

Injection Log

Directory: c:\hpchem\1\data\052714\3

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	11	e2700001.d	10.	3E42701-01	100cc Equipment Blank	27 May 14 09:29
2	1	e2700002.d	10.	3E42701-02	100cc SVL-502-SA5D-SV-5.0-6.0	27 May 14 09:58
3	2	e2700003.d	10.	34E2701-DUP1	100cc SVL-502-SA5D-SV-5.0-6.0	27 May 14 10:27
4	3	e2700004.d	10.	3E42701-03	100cc SVL-802-SA5D-SV-5.0-6.0	27 May 14 10:57
5	4	e2700005.d	10.	3E42701-04	100cc SVL-502-SA5D-SV-13.0-14.0	27 May 14 11:32
6	5	e2700006.d	10.	3E42701-05	100cc SVL-502-SA5D-SV-18.0-19.0	27 May 14 12:03
7	6	e2700007.d	10.	3E42701-06	100cc SVL-513-SA5D-SV-5.0-6.0	27 May 14 12:33
8	7	e2700008.d	10.	3E42701-07	100cc SVL-513-SA5D-SV-10.0-11.0	27 May 14 13:02
9	8	e2700009.d	10.	3E42701-07	5cc SVL-513-SA5D-SV-10.0-11.0 20X DIL	27 May 14 13:31
10	8	e2700010.d	10.	3E42701-08	5cc SVL-513-SA5D-SV-15.5-16.5 20X DIL	27 May 14 14:01
11	2	e2700011.d	10.	3E42701-08	100cc SVL-513-SA5D-SV-15.5-16.5	27 May 14 14:34
12	3	e2700012.d	10.	3E42701-09	100cc SVL-512-SA5D-SV-5.0-6.0	27 May 14 15:05
13	4	e2700013.d	10.	3E42701-10	100cc SVL-512-SA5D-SV-11.0-12.0	27 May 14 15:35
14	5	e2700014.d	10.	3E42701-11	100cc SVL-512-SA5D-SV-16.75-17.75	27 May 14 16:04
15	6	e2700015.d	10.	3E42701-12	100cc FB-052714	27 May 14 17:01
16	1	e27bfb01.d	1.	50 ng BFB tune	12HRS SYSTEM BFB TUNING	27 May 14 06:07
17	11	e27blk01.d	10.	34E2701-BLK1	100cc AMBIENT AIR/H2O	27 May 14 09:00
18	10	e27ccv01.d	1.	1.25/2.5/12.5 ug/L 8260B std	20mL 8260 CCV	27 May 14 06:52
19	10	e27lcs01.d	1.	34E2701-BS1	20cc 1.25/2.5/12.5 ug/L LCS	27 May 14 07:33
20	9	e27lcs02.d	1.	34E2701-BSD1	20cc 1.25/2.5/12.5 ug/L LCS	27 May 14 17:30

SAMPLE LOG SHEET

Date: 05/27/2014
Analyst: DN
Lab ID: # 3
Batch Number: 34E2701
Project Number: EST2754

EPA Method: 8260B CHHSLS 0.02 RL GILAN AIR5 PUMP
Initial Calibration: MW'11313.MTH FLOW RATE @ 200mL/min
Cal Std Lot No.: 4D14009
LCS Std Lot No.: 4D14008 Glass Bulb Bake @
IS/SS Lot No.: 4D14001 130 degree for 30 min

[illegible]

CASE NARRATIVE

**LABORATORY CASE NARRATIVE
(EPA 8260B)**

SDG: 34E2701

DATE: May 27, 2014

PROJECT No.: EST2754

Twelve (12) Glass Bulb soil vapor samples were analyzed on May 27, 2014, by EPA Method Analysis performed using a gas chromatograph/mass spectrometer (GC/MS).

Sample Preservation and Holding Times

Samples were preserved according to the method recommendation, unless otherwise noted on the chain-of-custody (COC) and /or the sample log sheet. Holding times were met, unless otherwise noted in the report with data qualifiers.

QA/QC Criteria

All quality objective criteria were met, except as noted in the report with data qualifiers.

Samples Analysis

No anomalies were observed during analysis of the samples.

COMMENTS:

Results that fall between the MDL and RL are 'J' flagged.

Adjusted values corrected for significant figure correction (10X) and sample volume (5X).

RAW DATA FOR QC SAMPLES AND INITIAL CALIBRATION
DUPLICATE SAMPLE

Data File : C:\HPCHEM\1\DATA\052714L3\E2700003.D
 Acq On : 27 May 2014 10:27 am
 Sample : 34E2701-DUP1
 Misc : 100cc SVL-502-SA5D-SV-5.0-6.0
 MS Integration Params: rteint.p
 Quant Time: May 27 10:52 19114

Vial: 2
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1808256	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1342252	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	685345	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	502458	11.14	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	89.12%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	490615	11.45	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	91.60%
39) Toluene-d8 (SU3)	12.20	98	1554440	12.42	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	99.36%
58) 4-Bromofluorobenzene (SU4)	15.22	95	719373	13.10	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	104.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	4.41	50	2882	-0.27	ug/L	62
6) Bromomethane	5.12	96	4565	0.52	ug/L	61
7) Chloroethane	5.34	64	2763	2.52	ug/L	96
11) Acetone	6.46	58	20993	30.21	ug/L	98
12) (IPA) Leak Check Compound	6.49	45	70661	325.20	ug/L	89
13) Carbon disulfide	6.86	76	68631	4.57	ug/L	98
14) Methylene Chloride	7.08	84	6615	1.33	ug/L	1
15) (TBA) tert-Butanol	6.91	59	3628	11.76	ug/L	77
21) (MEK) 2-Butanone	8.80	72	1109	2.18	ug/L	1
24) Chloroform	9.21	83	2110	0.22	ug/L	1
25) (ETBE) 2-ethoxy 2-methyl p	8.34	59	1076	0.08	ug/L	44
29) 1,1-Dichloropropene	9.93	75	914	0.13	ug/L	1
31) Benzene	9.98	78	12818	0.75	ug/L	68
32) 1,2-Dichloroethane	9.93	62	6604	1.10	ug/L	1
35) Dibromomethane	11.01	93	354	0.11	ug/L	5
40) (MIBK) 4-Methyl-2-Pentanone	12.19	43	7694	2.87	ug/L	100
41) Toluene	12.29	91	96304	5.26	ug/L	98
42) trans-1,3-Dichloropropene	12.29	75	291	0.05	ug/L	1
46) 2-Hexanone	12.96	43	1860	0.63	ug/L	63
51) Ethylbenzene	14.02	91	20829	1.00	ug/L	97
52) m,p-Xylenes	14.15	106	24163	3.27	ug/L	100
53) o-Xylene	14.61	106	10708	1.46	ug/L	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E2700003.D
Acq On : 27 May 2014 10:27 am
Sample : 34E2701-DUP1
Misc : 100cc SVL-502-SA5D-SV-5.0-6.0
MS Integration Params: rteint.p
Quant Time: May 27 10:52 19114

Vial: 2
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
54) Styrene	14.61	104	1620	-0.72	ug/L #	1
56) Isopropylbenzene	15.00	105	303	0.02	ug/L #	55
57) 1,2,3-Trichloropropane	15.33	75	311	0.06	ug/L #	36
62) n-Propylbenzene	15.45	91	1810	0.07	ug/L #	56
63) 2-Chlorotoluene	15.56	91	290	0.02	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.62	105	1575	0.09	ug/L #	31
65) 4-Chlorotoluene	15.56	91	290	0.02	ug/L #	44
67) 1,2,4-Trimethylbenzene	16.06	105	4346	0.24	ug/L #	99
68) sec-Butylbenzene	16.15	105	314	0.01	ug/L #	62
69) p-Isopropyltoluene	16.37	119	723	0.04	ug/L #	52

(#) = qualifier out of range (m) = manual integration

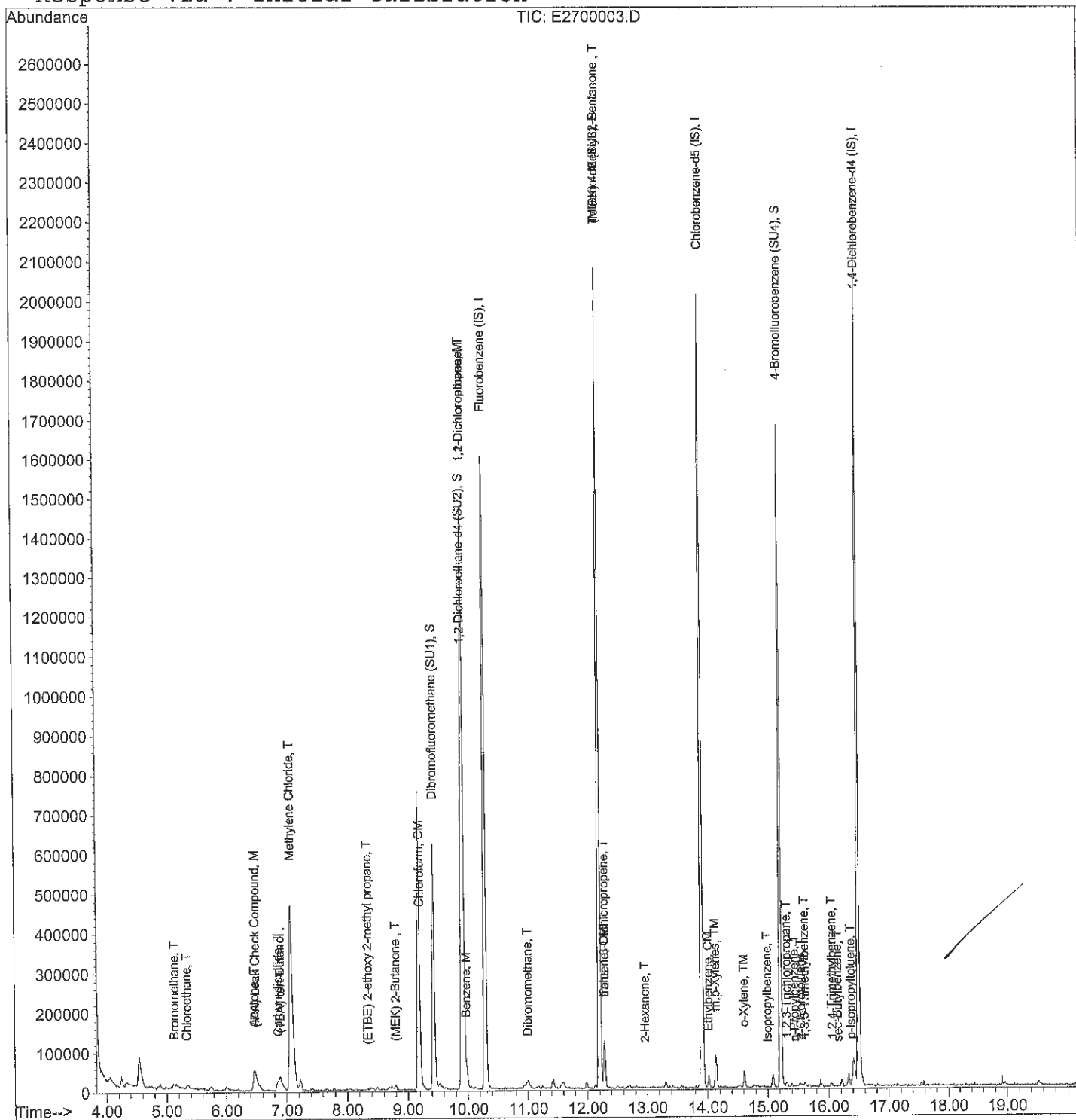
Quantitation Report

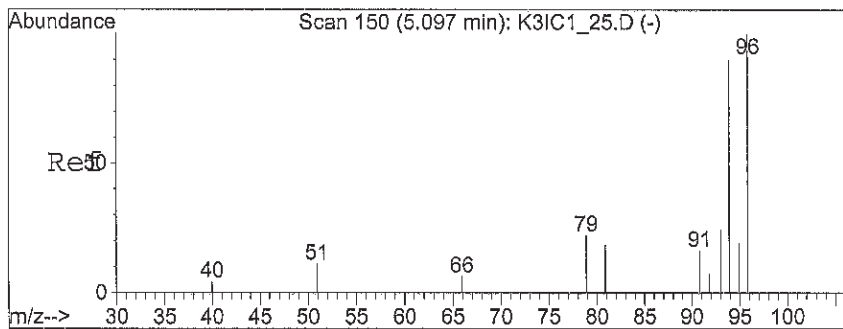
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 Acq On : 27 May 2014 10:27 am
 Sample : 34E2701-DUP1
 Misc : 100cc SVL-502-SA5D-SV-5.0-6.0
 MS Integration Params: rteint.p
 Quant Time: May 27 10:52 19114

Vial: 2
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration





#6

Bromomethane

Concen: 0.52 ug/L

RT: 5.12 min Scan# 154

Delta R.T. 0.03 min

Lab File: E2700003.D

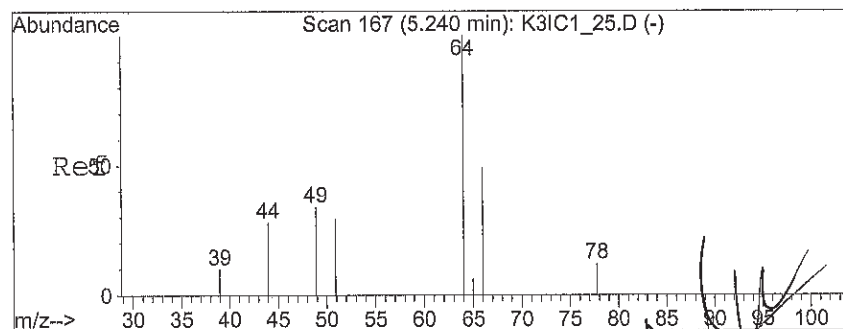
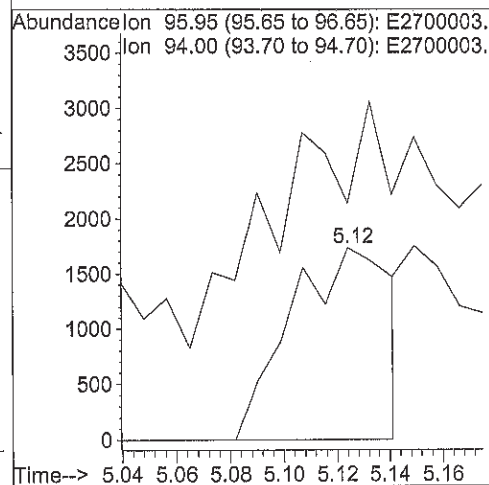
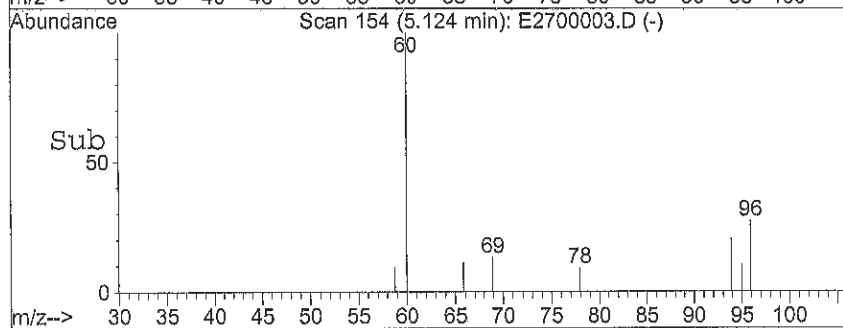
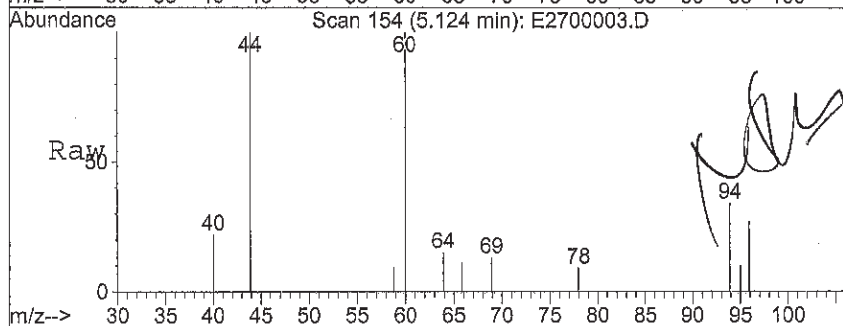
Acq: 27 May 2014 10:27 am

Tgt Ion: 96 Resp: 4565

Ion Ratio Lower Upper

96 100

94 170.6 101.0 151.4#



#7

Chloroethane

Concen: 2.52 ug/L

RT: 5.34 min Scan# 179

Delta R.T. 0.10 min

Lab File: E2700003.D

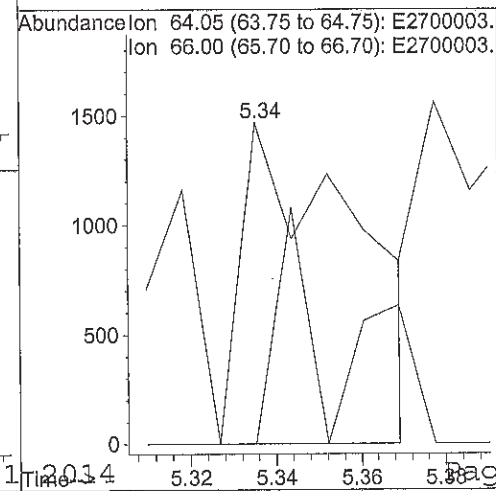
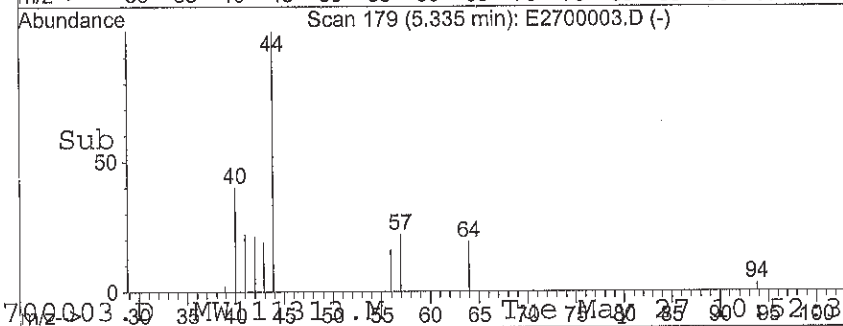
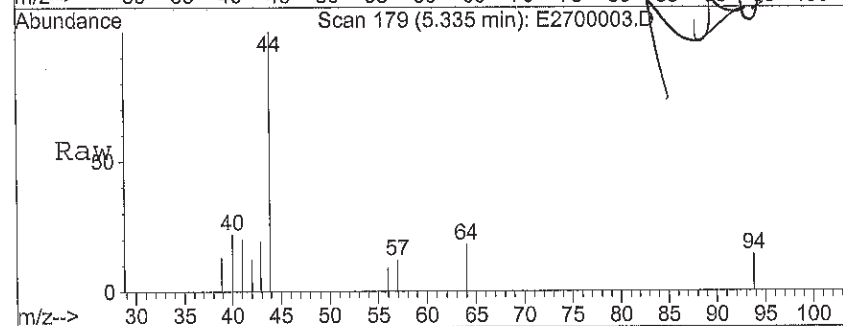
Acq: 27 May 2014 10:27 am

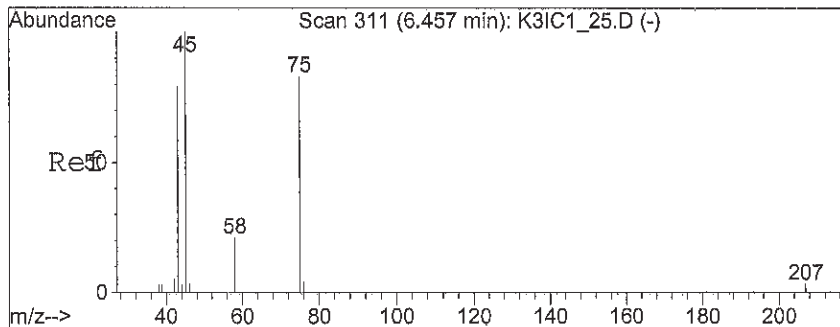
Tgt Ion: 64 Resp: 2763

Ion Ratio Lower Upper

64 100

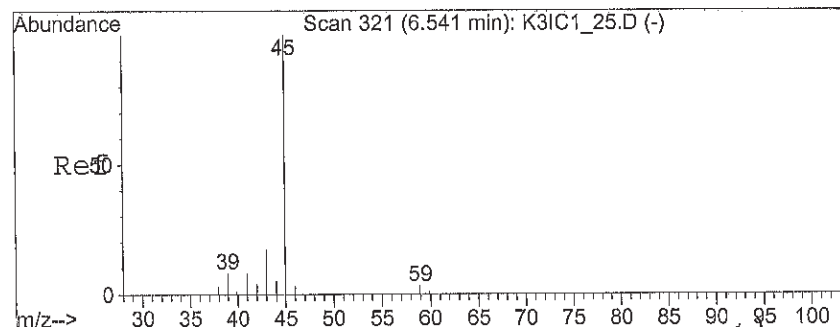
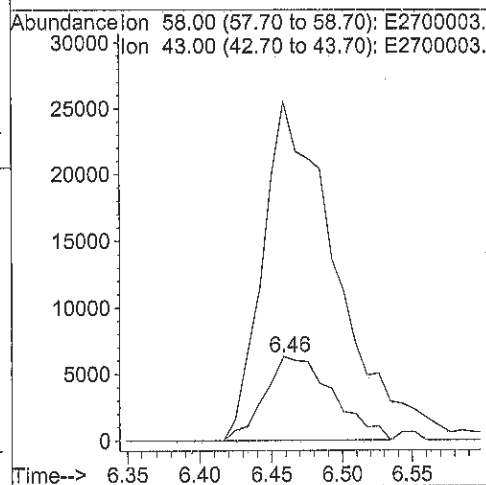
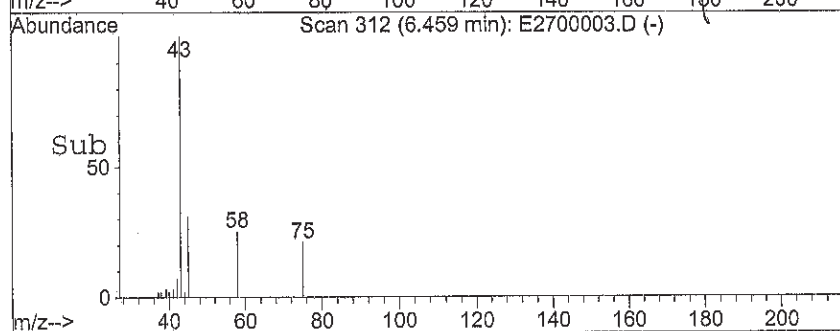
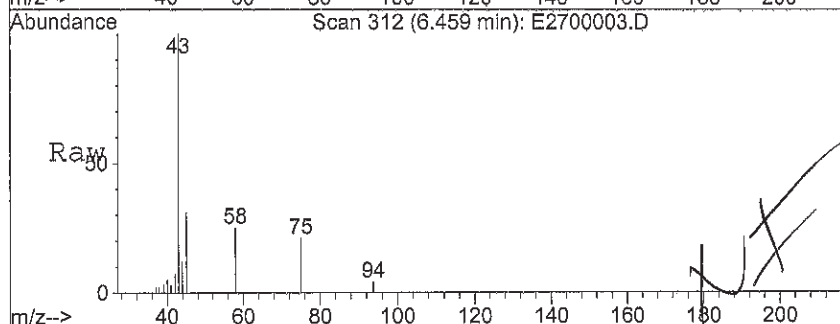
66 41.7 35.4 53.0





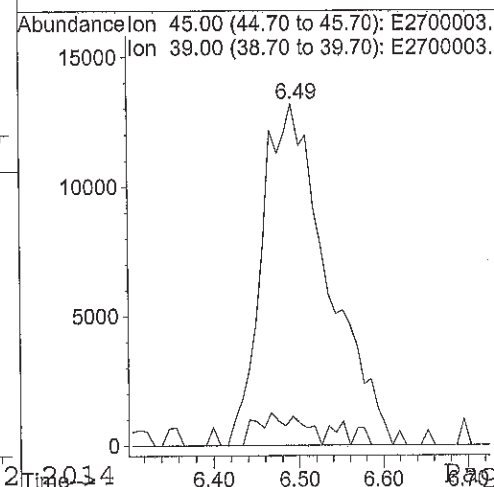
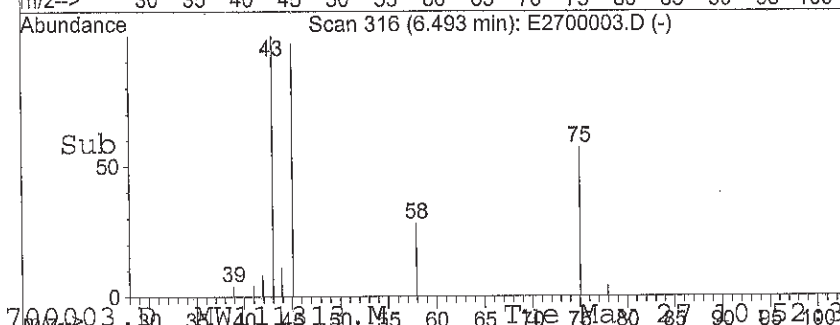
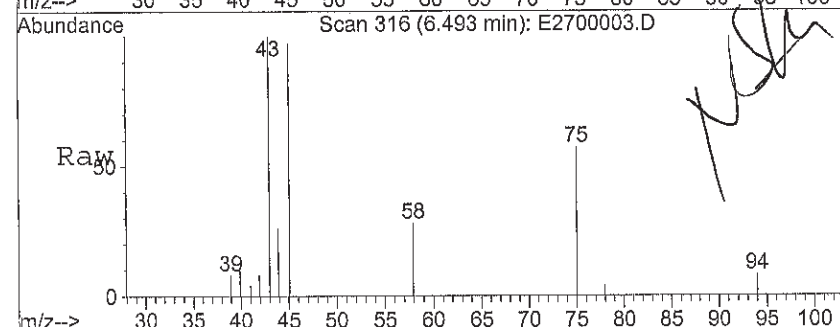
#11
 Acetone
 Concen: 30.21 ug/L
 RT: 6.46 min Scan# 312
 Delta R.T. 0.00 min
 Lab File: E2700003.D
 Acq: 27 May 2014 10:27 am

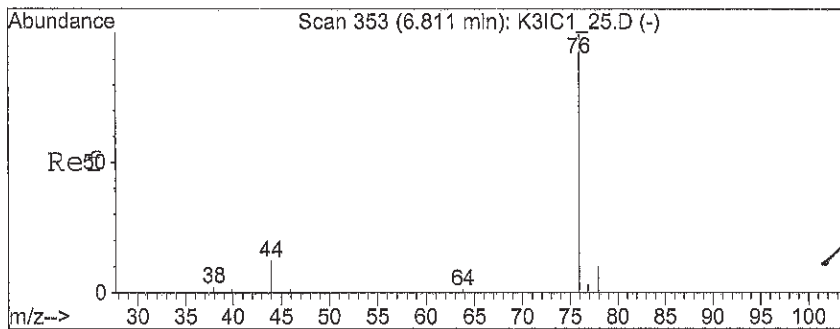
Tgt Ion: 58 Resp: 20993
 Ion Ratio Lower Upper
 58 100
 43 445.8 360.9 541.3



#12
 (IPA) Leak Check Compound
 Concen: 325.20 ug/L
 RT: 6.49 min Scan# 316
 Delta R.T. -0.05 min
 Lab File: E2700003.D
 Acq: 27 May 2014 10:27 am

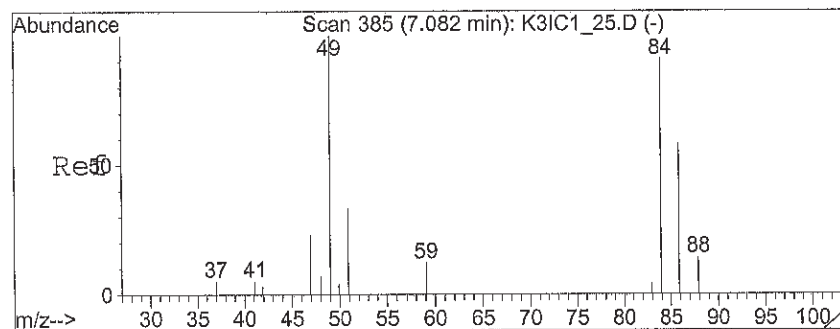
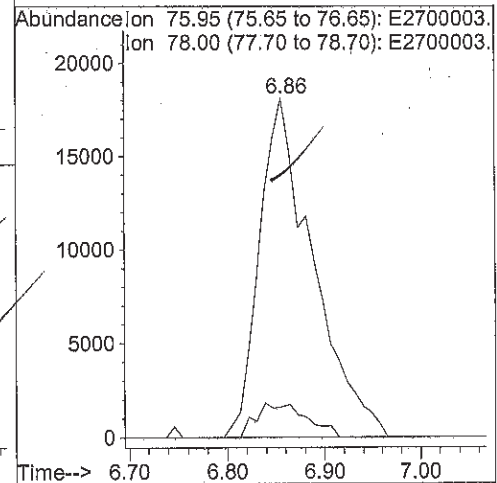
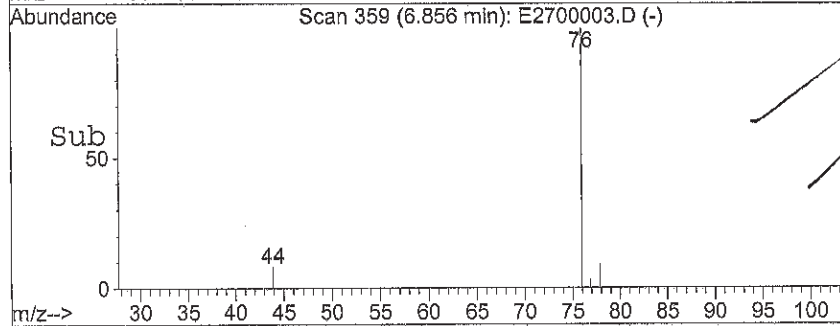
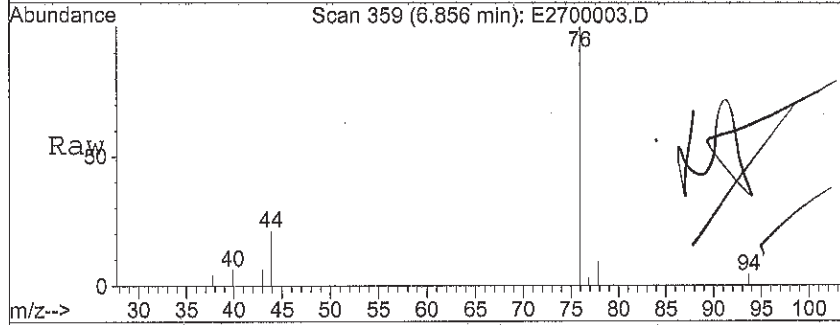
Tgt Ion: 45 Resp: 70661
 Ion Ratio Lower Upper
 45 100
 39 2.4 4.9 7.3#





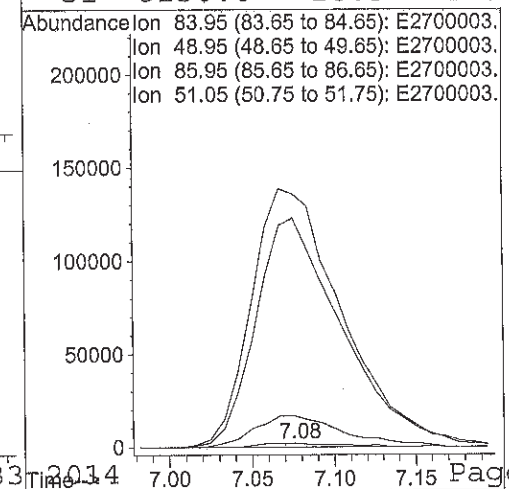
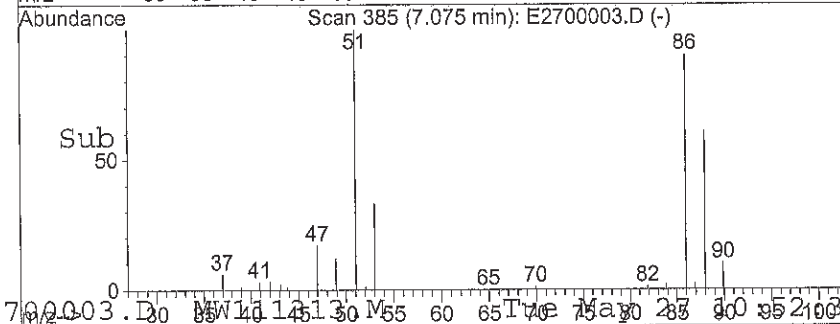
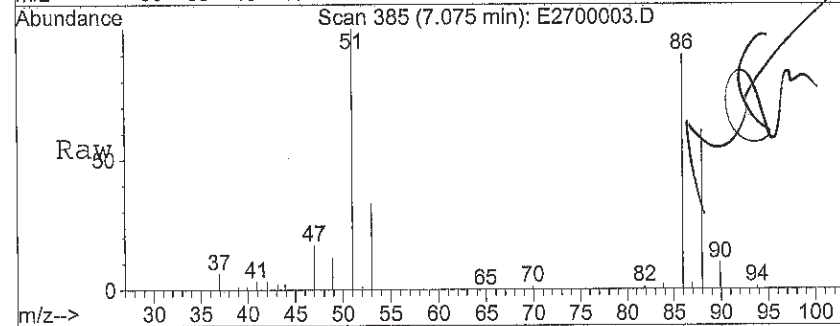
#13
Carbon disulfide
Concen: 4.57 ug/L
RT: 6.86 min Scan# 359
Delta R.T. 0.04 min
Lab File: E2700003.D
Acq: 27 May 2014 10:27 am

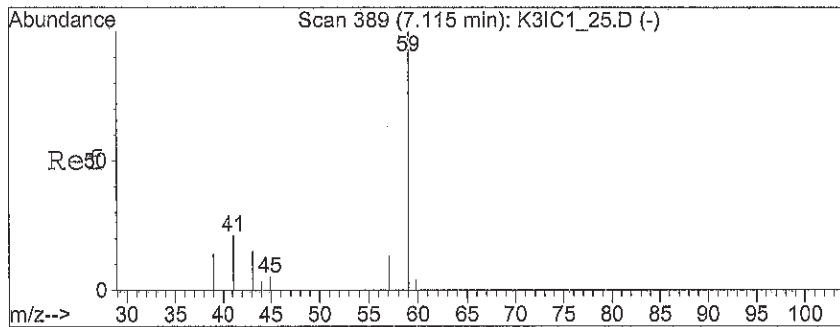
Tgt Ion: 76 Resp: 68631
Ion Ratio Lower Upper
76 100
78 9.4 7.0 10.4



#14
Methylene Chloride
Concen: 1.33 ug/L
RT: 7.08 min Scan# 385
Delta R.T. -0.01 min
Lab File: E2700003.D
Acq: 27 May 2014 10:27 am

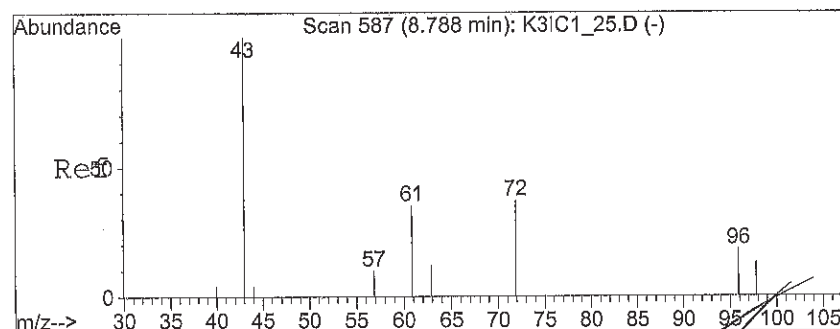
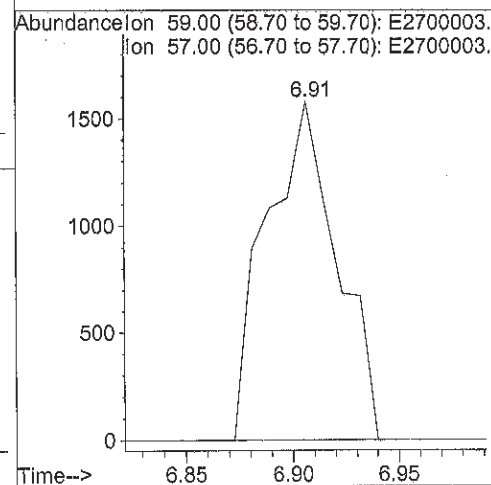
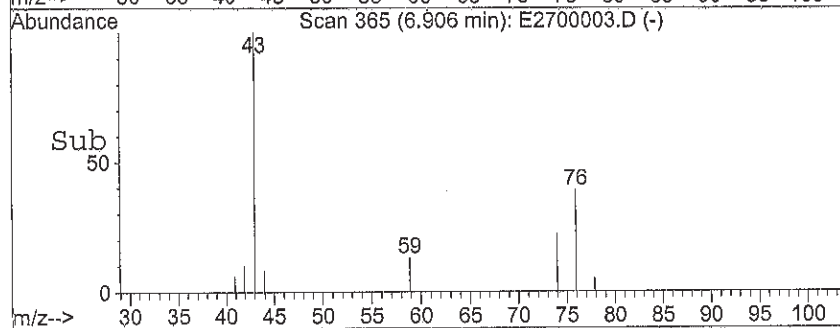
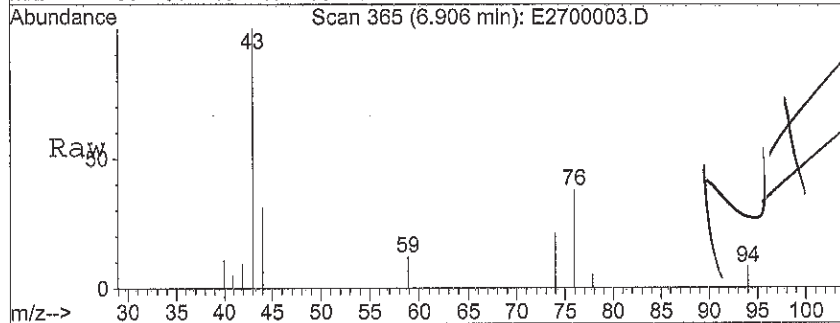
Tgt Ion: 84 Resp: 6615
Ion Ratio Lower Upper
84 100
49 958.5 89.8 134.6#
86 6874.0 51.1 76.7#
51 8130.0 28.5 42.7#





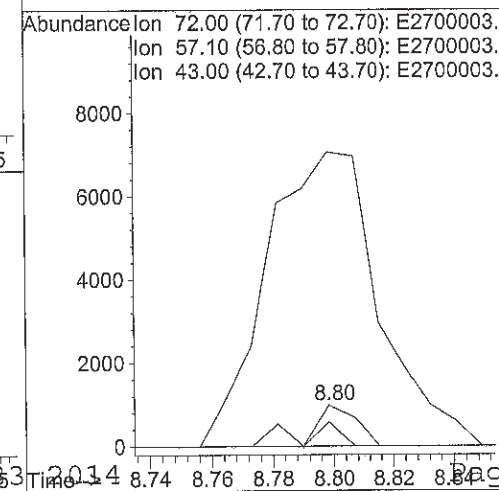
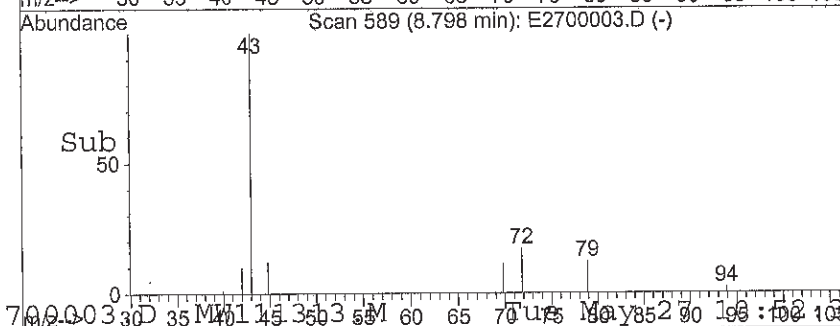
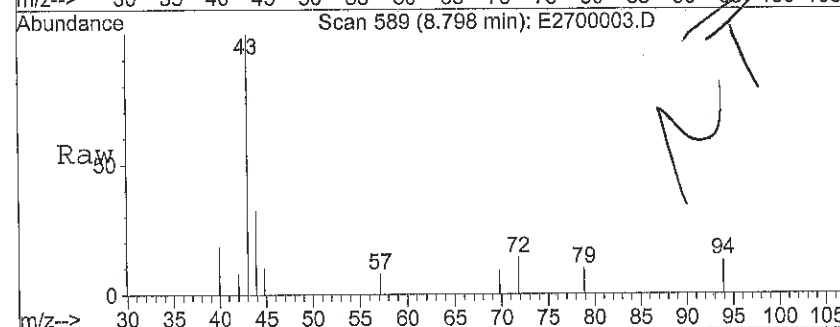
#15
 (TBA) tert-Butanol
 Concen: 11.76 ug/L
 RT: 6.91 min Scan# 365
 Delta R.T. -0.21 min
 Lab File: E2700003.D
 Acq: 27 May 2014 10:27 am

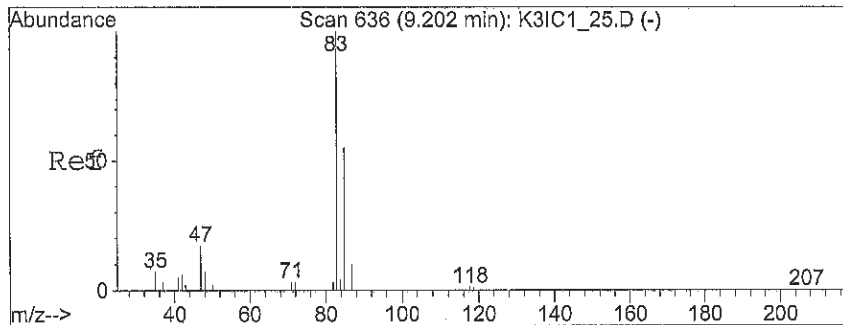
Tgt Ion: 59 Resp: 3628
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#21
 (MEK) 2-Butanone
 Concen: 2.18 ug/L
 RT: 8.80 min Scan# 589
 Delta R.T. 0.01 min
 Lab File: E2700003.D
 Acq: 27 May 2014 10:27 am

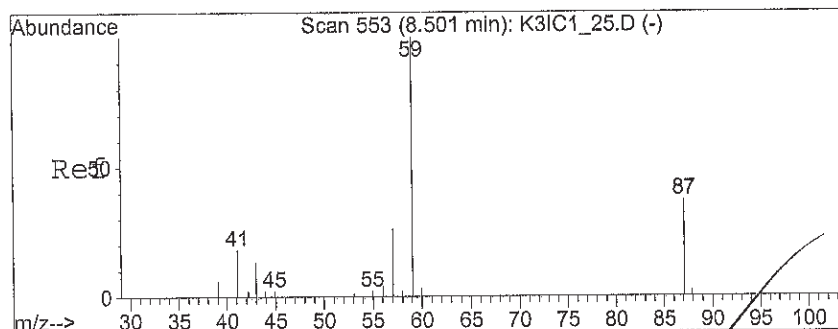
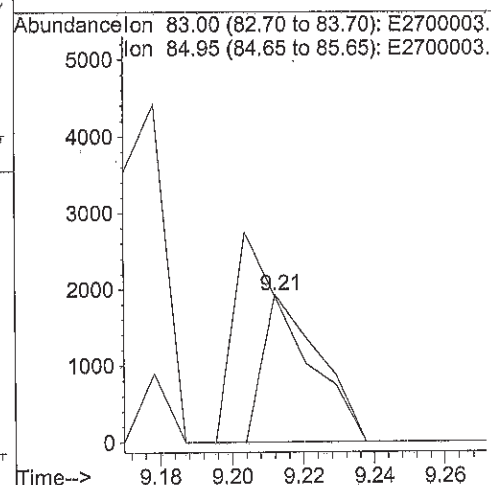
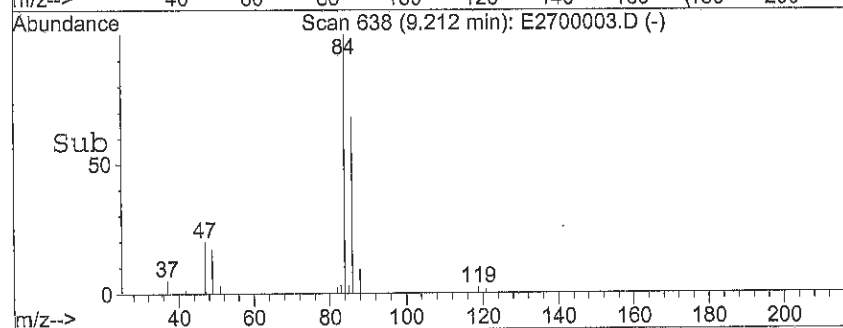
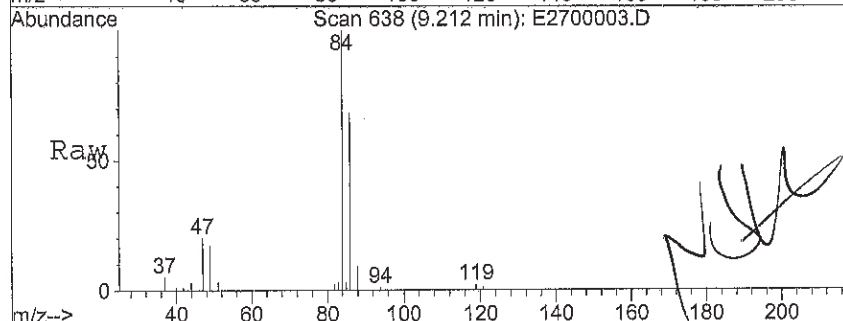
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 Ion Ratio Lower Upper
 72 100
 57 26.1 17.5 26.3
 43 1645.8 314.2 471.2#





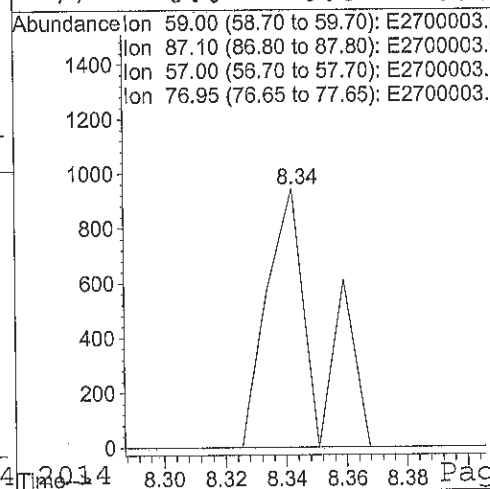
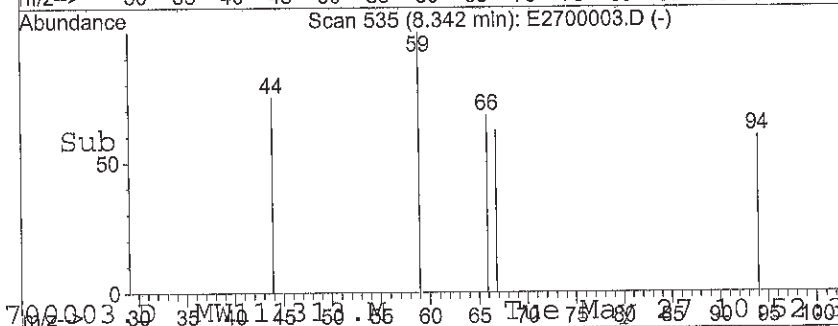
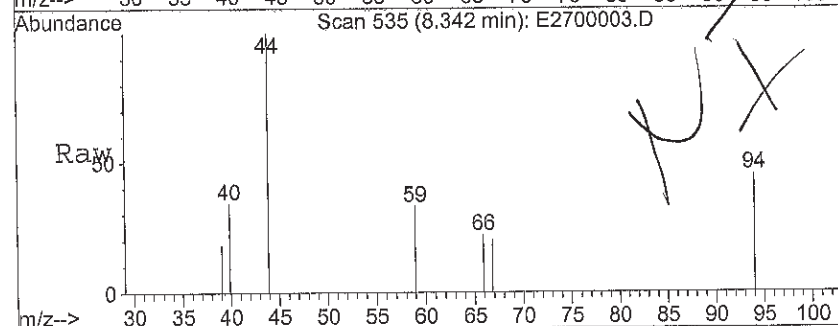
#24
Chloroform
Concen: 0.22 ug/L
RT: 9.21 min Scan# 638
Delta R.T. 0.01 min
Lab File: E2700003.D
Acq: 27 May 2014 10:27 am

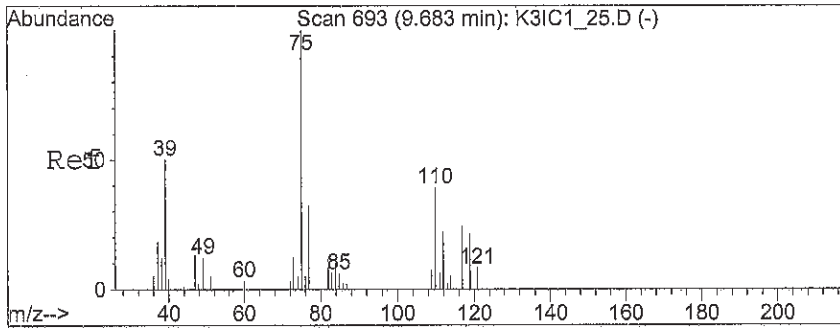
Tgt Ion: 83 Resp: 2110
Ion Ratio Lower Upper
83 100
85 153.9 51.8 77.6#



#25
(ETBE) 2-ethoxy 2-methyl propan
Concen: 0.08 ug/L
RT: 8.34 min Scan# 535
Delta R.T. -0.16 min
Lab File: E2700003.D
Acq: 27 May 2014 10:27 am

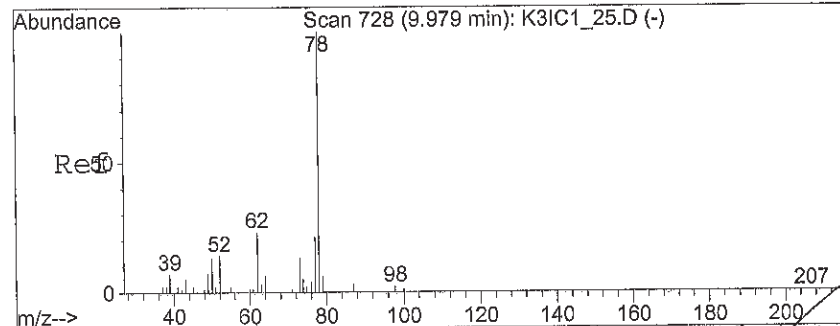
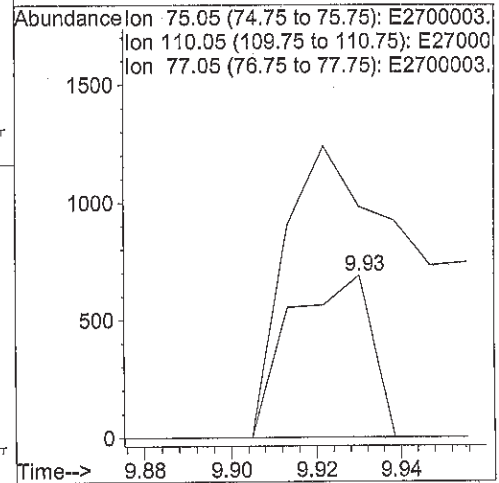
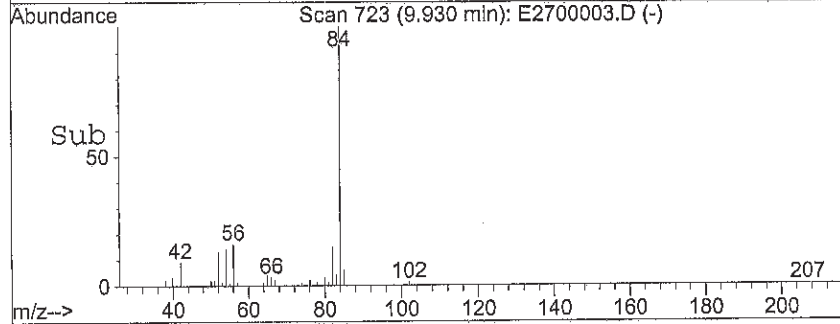
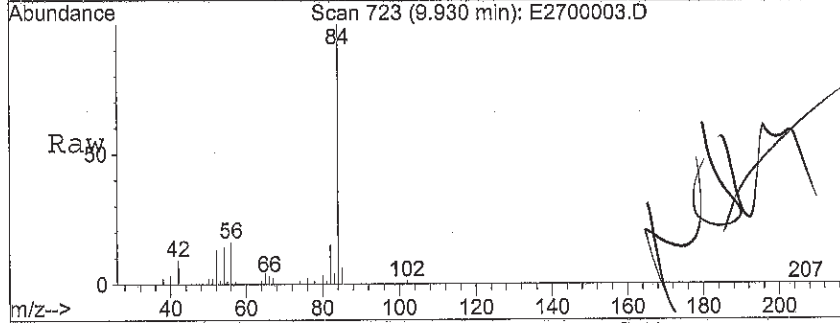
Tgt Ion: 59 Resp: 1076
Ion Ratio Lower Upper
59 100
87 0.0 27.8 41.8#
57 0.0 19.8 29.6#
77 0.0 0.0 0.0





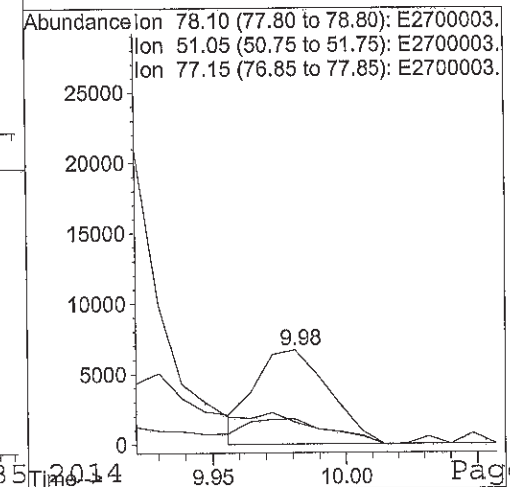
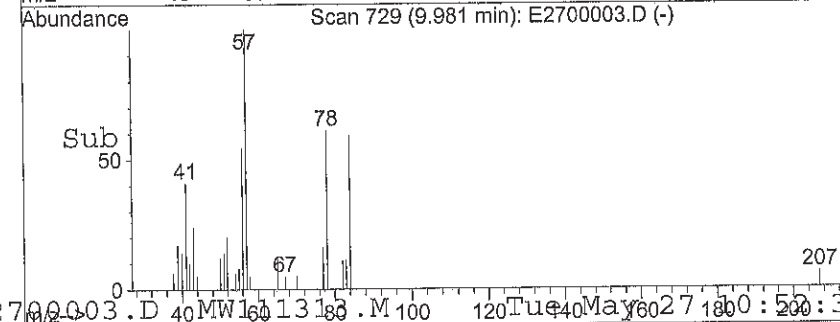
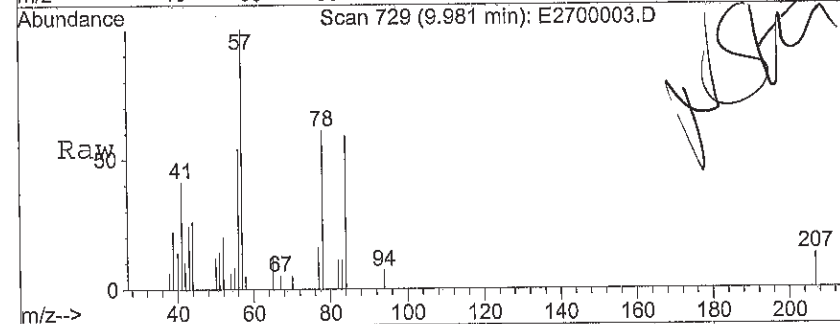
#29
 1,1-Dichloropropene
 Concen: 0.13 ug/L
 RT: 9.93 min Scan# 723
 Delta R.T. 0.25 min
 Lab File: E2700003.D
 Acq: 27 May 2014 10:27 am

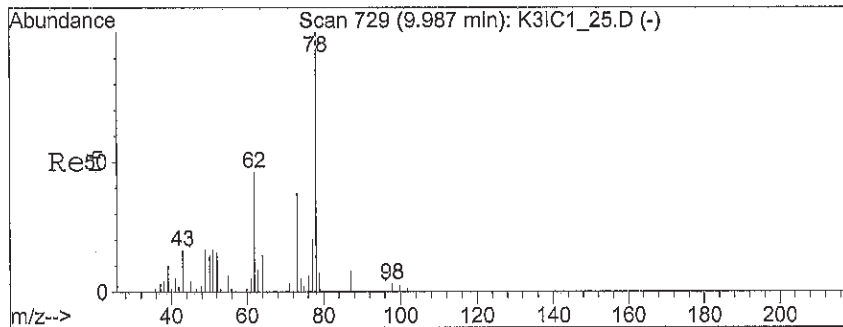
Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	29.0	43.6#
77	265.0	25.0	37.4#



#31
 Benzene
 Concen: 0.75 ug/L
 RT: 9.98 min Scan# 729
 Delta R.T. 0.00 min
 Lab File: E2700003.D
 Acq: 27 May 2014 10:27 am

Tgt Ion	Ratio	Lower	Upper
78	100		
51	0.0	14.2	21.2#
77	32.7	16.6	24.8#





#32

1,2-Dichloroethane

Concen: 1.10 ug/L

RT: 9.93 min Scan# 723

Delta R.T. -0.06 min

Lab File: E2700003.D

Acq: 27 May 2014 10:27 am

Tgt Ion: 62 Resp: 6604

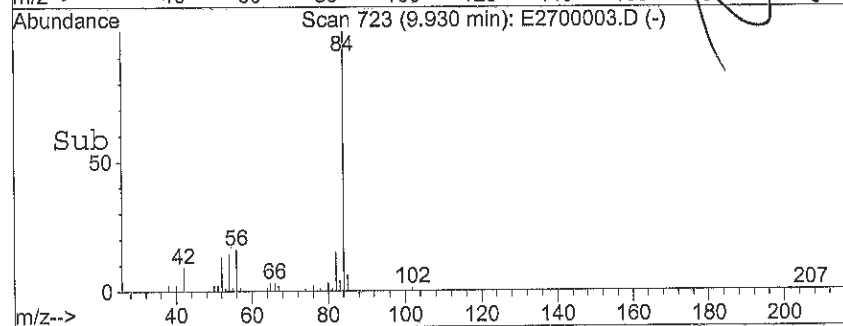
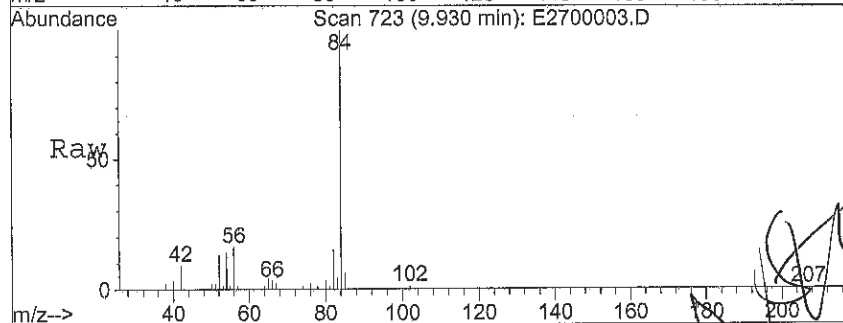
Ion Ratio Lower Upper

62 100

64 218.3 28.0 42.0#

49 0.0 28.5 42.7#

98 0.0 6.2 9.4#



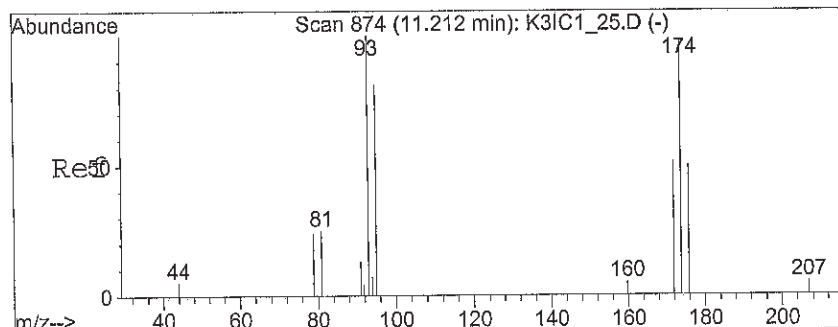
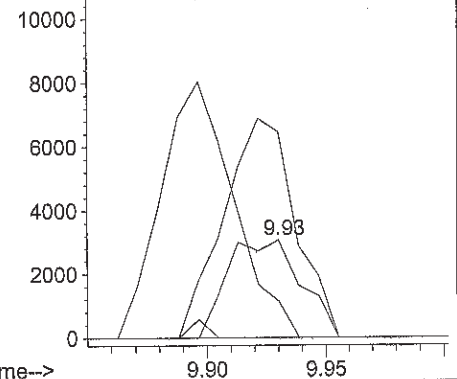
Abundance

Ion 62.05 (61.75 to 62.75): E2700003.

Ion 64.05 (63.75 to 64.75): E2700003.

Ion 49.00 (48.70 to 49.70): E2700003.

Ion 98.05 (97.75 to 98.75): E2700003.



#35

Dibromomethane

Concen: 0.11 ug/L

RT: 11.01 min Scan# 851

Delta R.T. -0.20 min

Lab File: E2700003.D

Acq: 27 May 2014 10:27 am

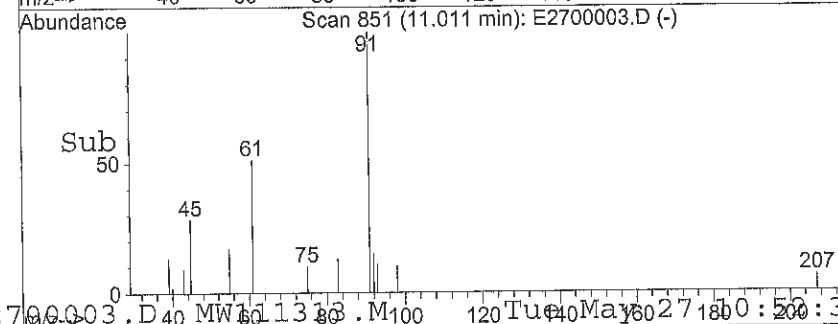
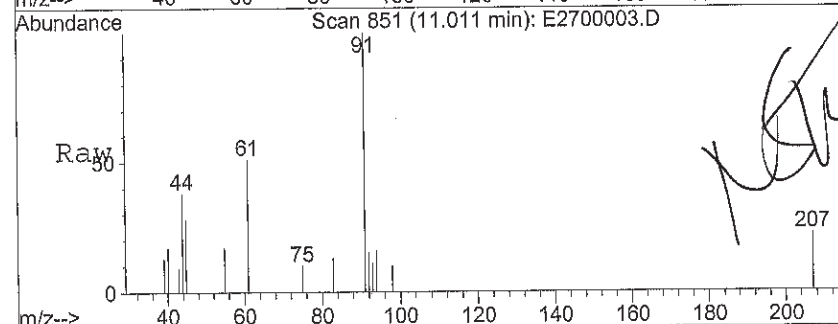
Tgt Ion: 93 Resp: 354

Ion Ratio Lower Upper

93 100

95 0.0 66.2 99.2#

174 0.0 75.5 113.3#

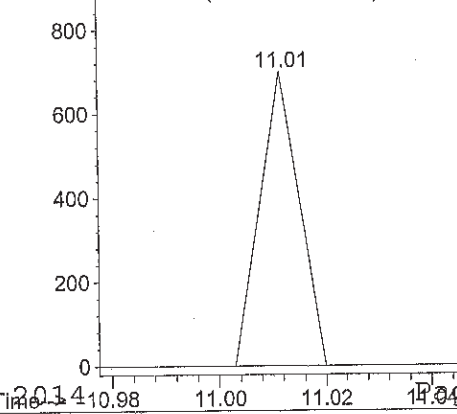


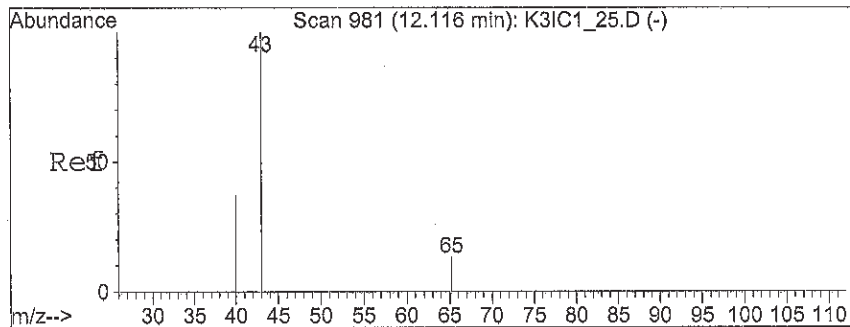
Abundance

Ion 93.00 (92.70 to 93.70): E2700003.

Ion 95.00 (94.70 to 95.70): E2700003.

Ion 173.90 (173.60 to 174.60): E2700003.





#40

(MIBK) 4-Methyl-2-Pentanone

Concen: 2.87 ug/L

RT: 12.19 min Scan# 991

Delta R.T. 0.08 min

Lab File: E2700003.D

Acq: 27 May 2014 10:27 am

Tgt Ion: 43 Resp: 7694

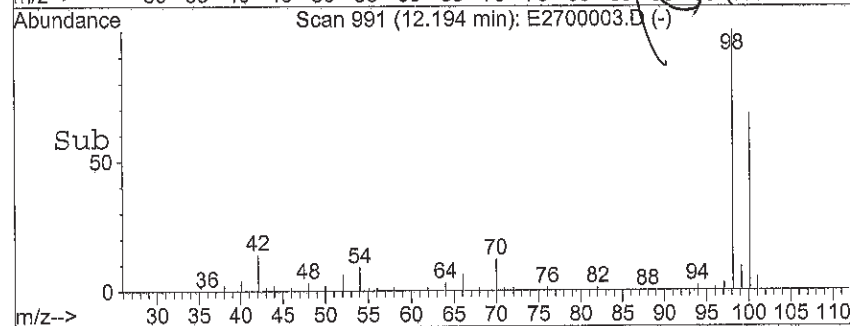
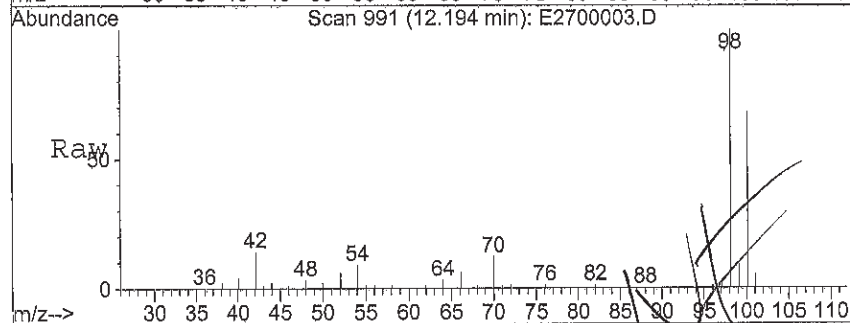
Ion Ratio Lower Upper

43 100

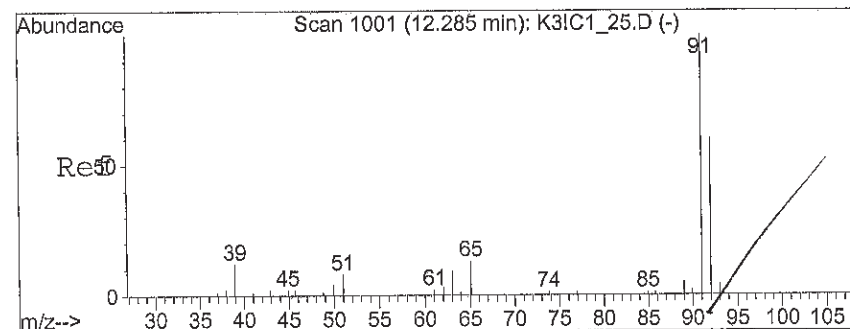
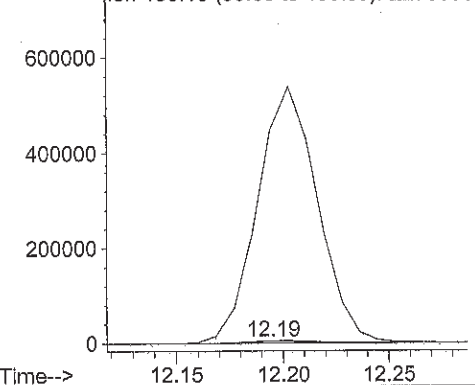
58 141.8 0.0 0.0#

85 0.0 0.0 0.0

100 13746.5 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): E2700003.
Ion 58.10 (57.80 to 58.80): E2700003.
Ion 85.05 (84.75 to 85.75): E2700003.
Ion 100.15 (99.85 to 100.85): E2700003.



#41

Toluene

Concen: 5.26 ug/L

RT: 12.29 min Scan# 1002

Delta R.T. 0.00 min

Lab File: E2700003.D

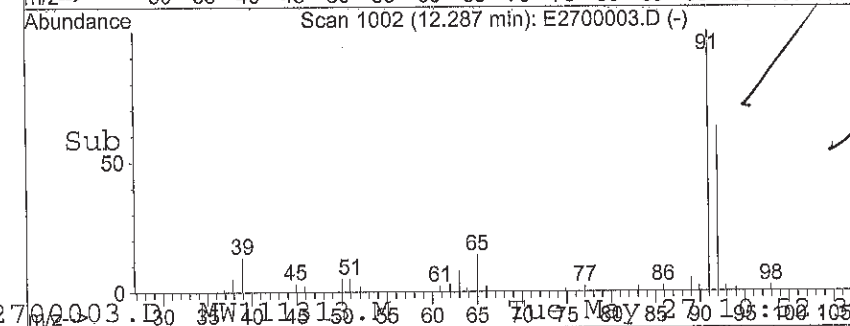
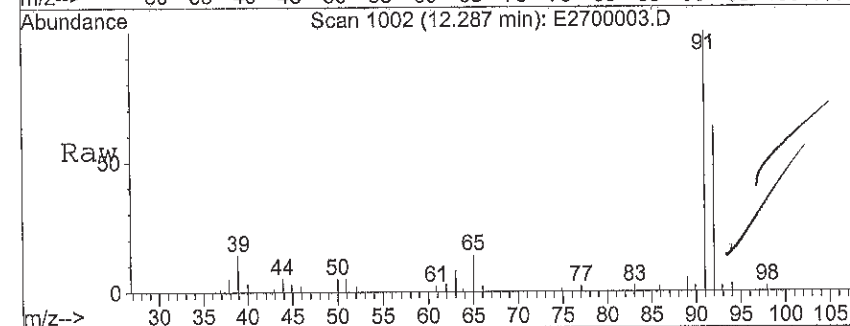
Acq: 27 May 2014 10:27 am

Tgt Ion: 91 Resp: 96304

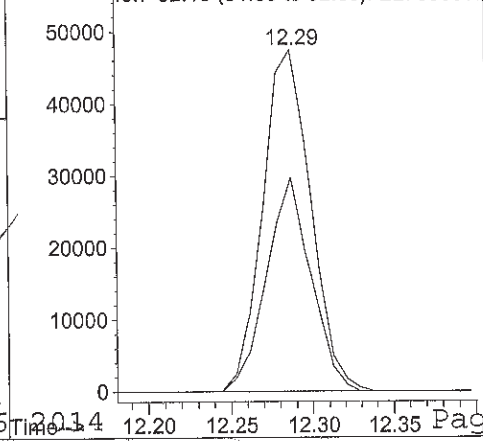
Ion Ratio Lower Upper

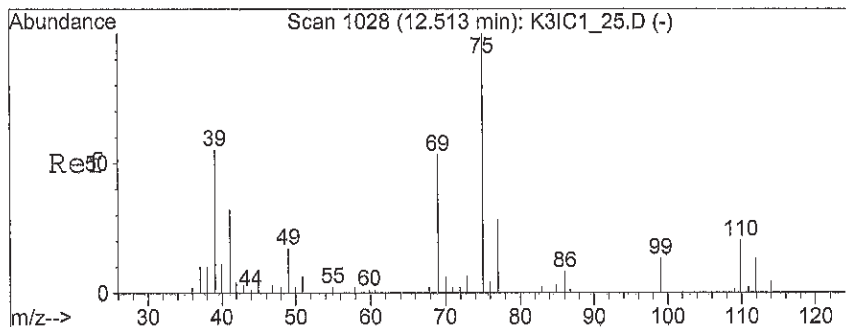
91 100

92 58.1 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): E2700003.
Ion 92.10 (91.80 to 92.80): E2700003.





#42

trans-1,3-Dichloropropene

Concen: 0.05 ug/L

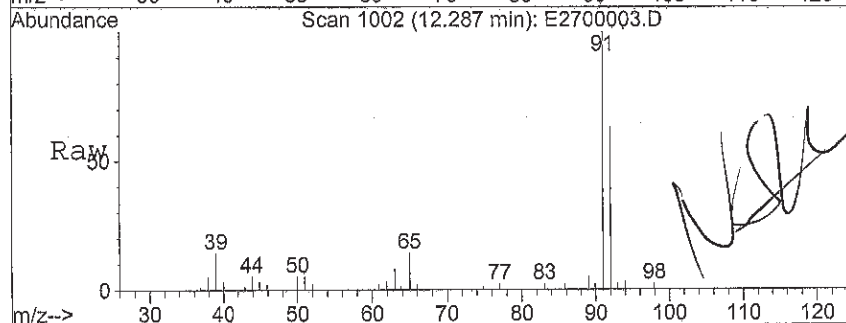
RT: 12.29 min Scan# 1002

Delta R.T. -0.23 min

Lab File: E2700003.D

Acq: 27 May 2014 10:27 am

Tgt Ion:	75	Resp:	291
Ion	Ratio	Lower	Upper
75	100		
39	4846.4	53.6	80.4#
77	288.0	25.4	38.2#
110	0.0	17.6	26.4#



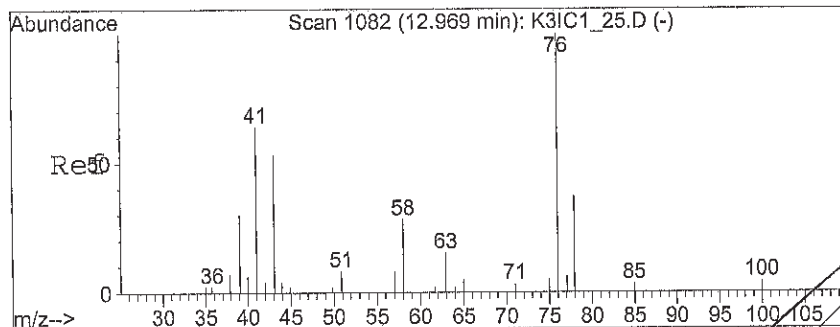
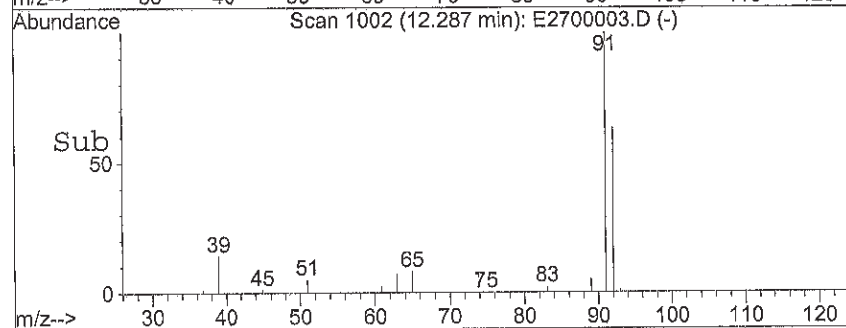
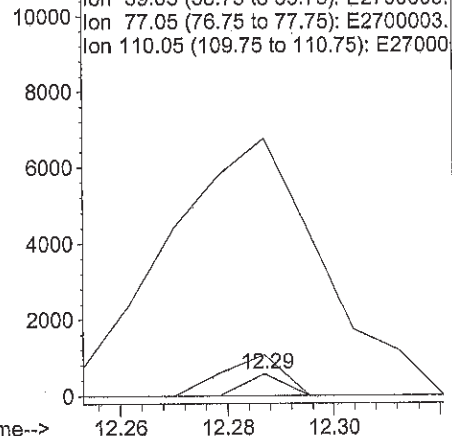
Abundance

Ion 75.05 (74.75 to 75.75): E2700003.

Ion 39.05 (38.75 to 39.75): E2700003.

Ion 77.05 (76.75 to 77.75): E2700003.

Ion 110.05 (109.75 to 110.75): E2700003.



#46

2-Hexanone

Concen: 0.63 ug/L

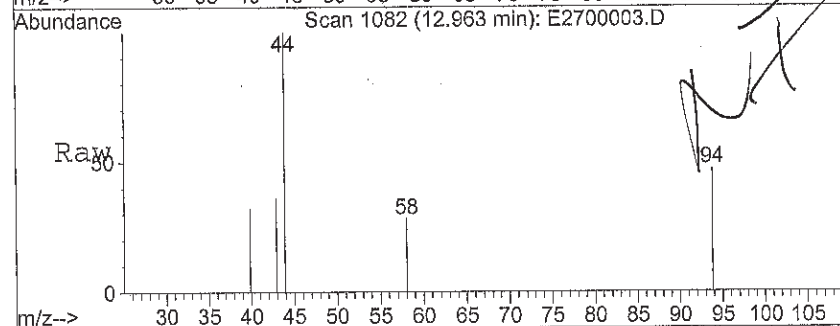
RT: 12.96 min Scan# 1082

Delta R.T. -0.01 min

Lab File: E2700003.D

Acq: 27 May 2014 10:27 am

Tgt Ion:	43	Resp:	1860
Ion	Ratio	Lower	Upper
43	100		
58	22.4	40.9	61.3#
100	0.0	5.5	8.3#
85	0.0	4.3	6.5#



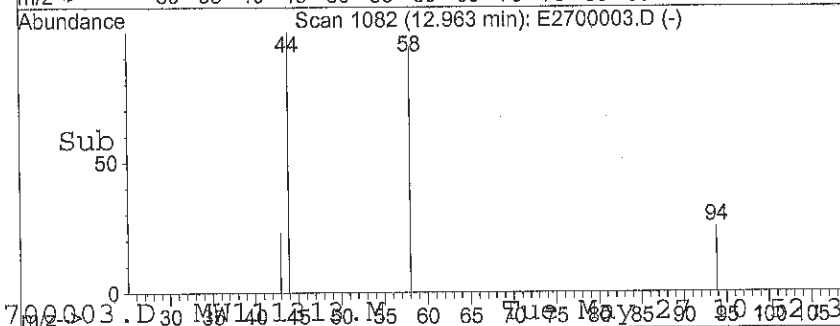
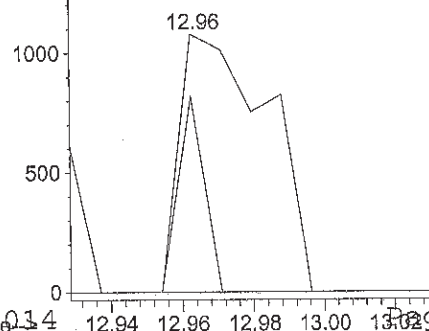
Abundance

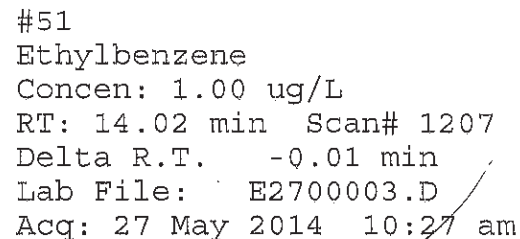
Ion 43.00 (42.70 to 43.70): E2700003.

Ion 58.10 (57.80 to 58.80): E2700003.

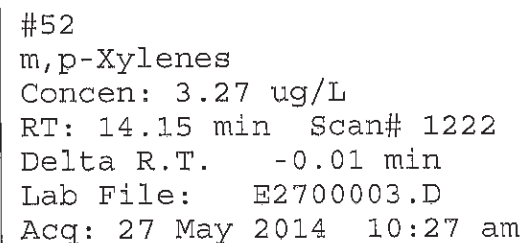
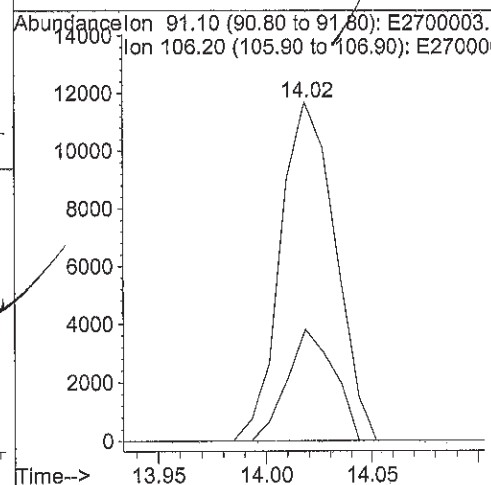
Ion 100.15 (99.85 to 100.85): E2700003.

Ion 85.05 (84.75 to 85.75): E2700003.

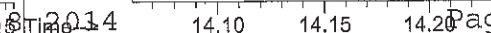
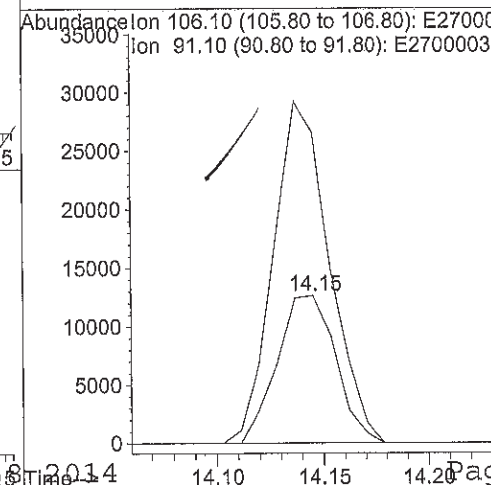


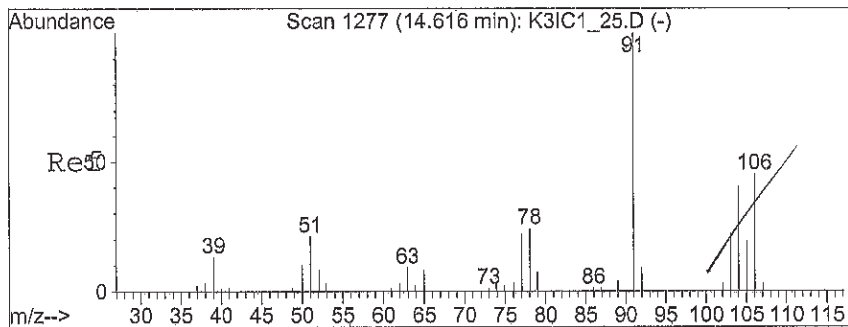


Tgt Ion: 91	Resp: 20829
Ion Ratio	Lower Upper
91 100	
106 28.0	23.5 35.3



Tgt	Ion:106	Resp:	24163
Ion	Ratio	Lower	Upper
106	100		
91	221.3	177.1	265.7





#53

o-Xylene

Concen: 1.46 ug/L

RT: 14.61 min Scan# 1277

Delta R.T. -0.01 min

Lab File: E2700003.D

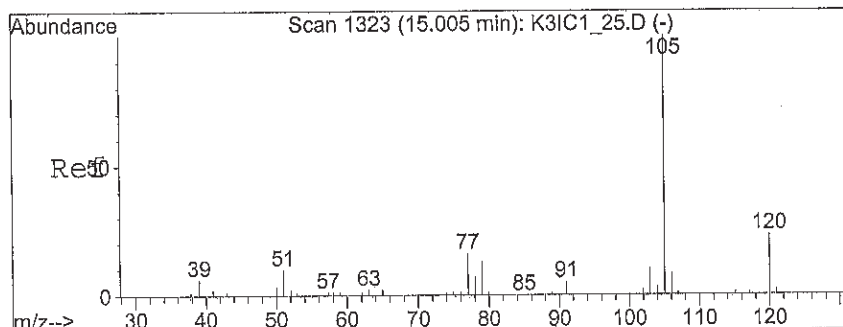
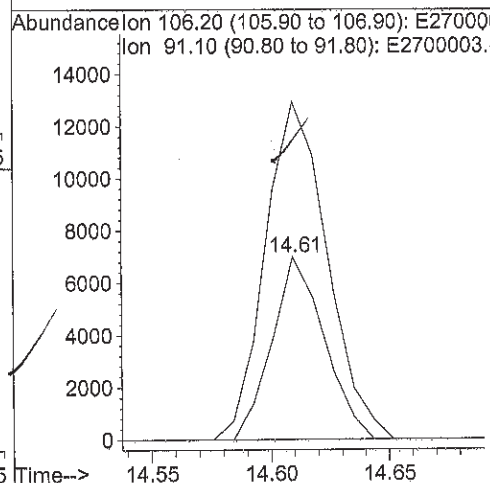
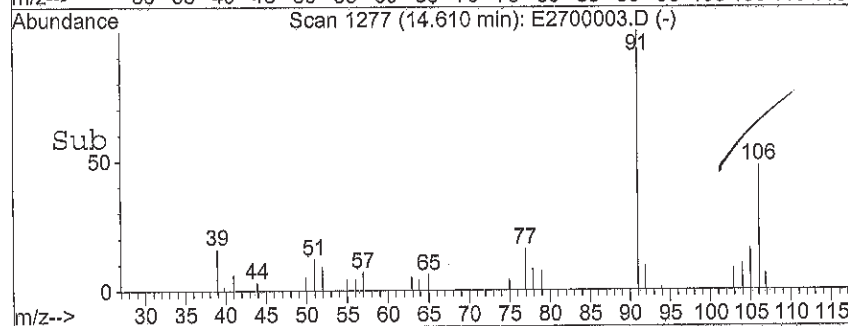
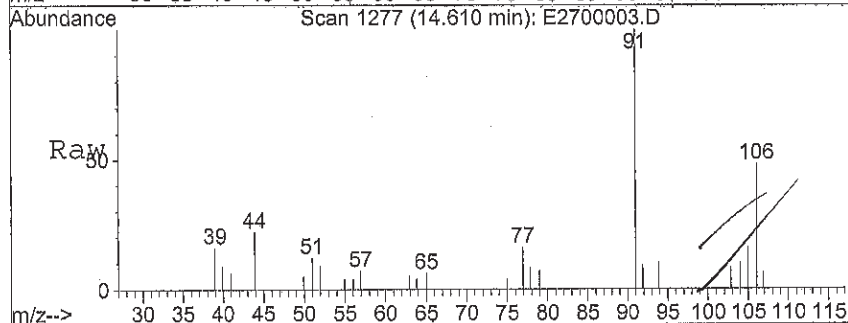
Acq: 27 May 2014 10:27 am

Tgt Ion:106 Resp: 10708

Ion Ratio Lower Upper

106 100

91 219.0 179.0 288.6



#56

Isopropylbenzene

Concen: 0.02 ug/L

RT: 15.00 min Scan# 1323

Delta R.T. -0.01 min

Lab File: E2700003.D

Acq: 27 May 2014 10:27 am

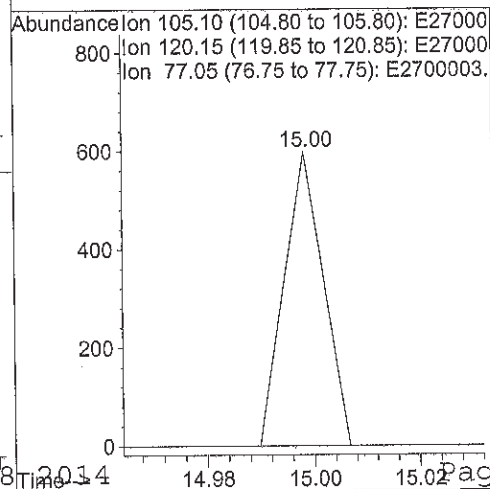
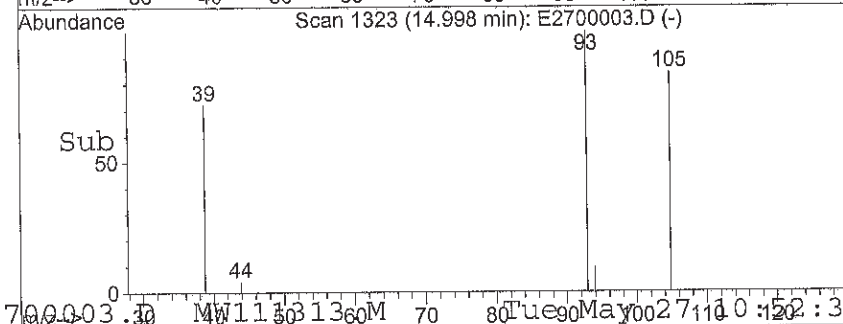
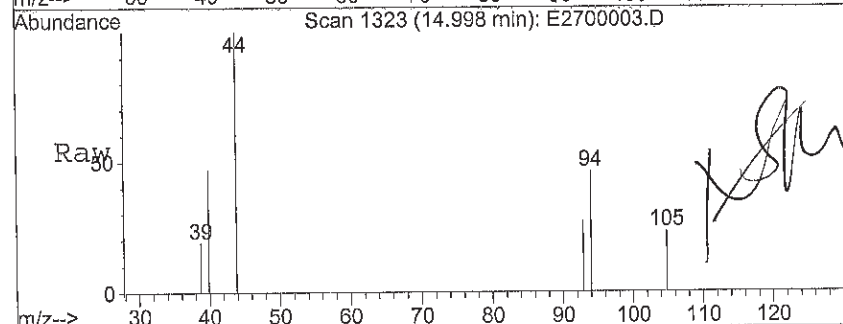
Tgt Ion:105 Resp: 303

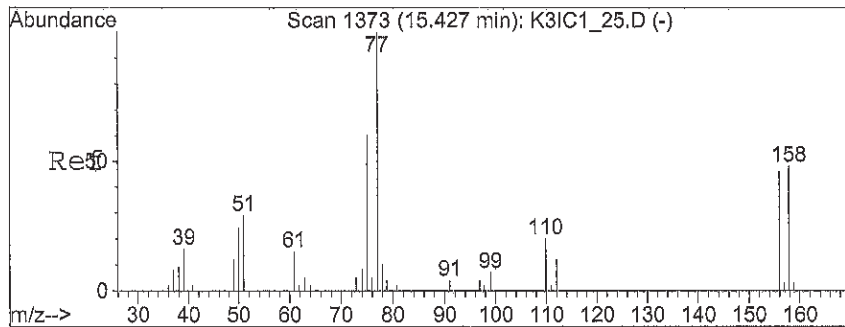
Ion Ratio Lower Upper

105 100

120 0.0 19.3 28.9#

77 0.0 13.1 19.7#





#57

1,2,3-Trichloropropane

Concen: 0.06 ug/L

RT: 15.33 min Scan# 1362

Delta R.T. -0.10 min

Lab File: E2700003.D

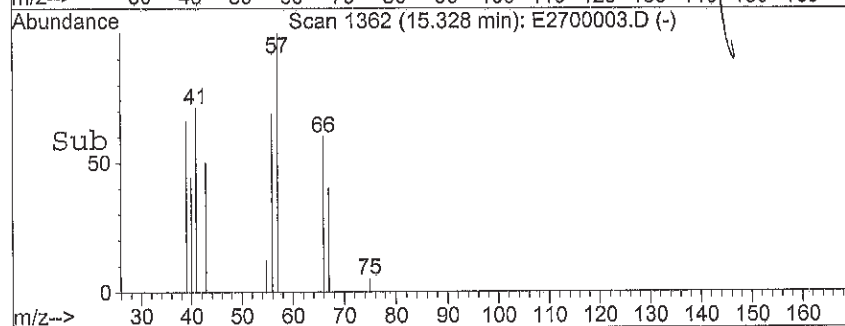
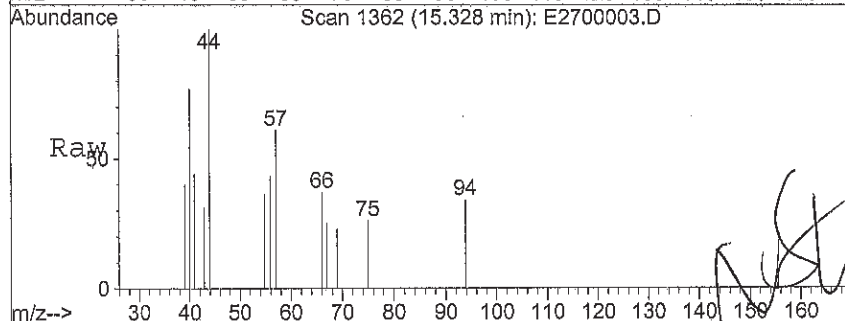
Acq: 27 May 2014 10:27 am

Tgt Ion: 75 Resp: 311

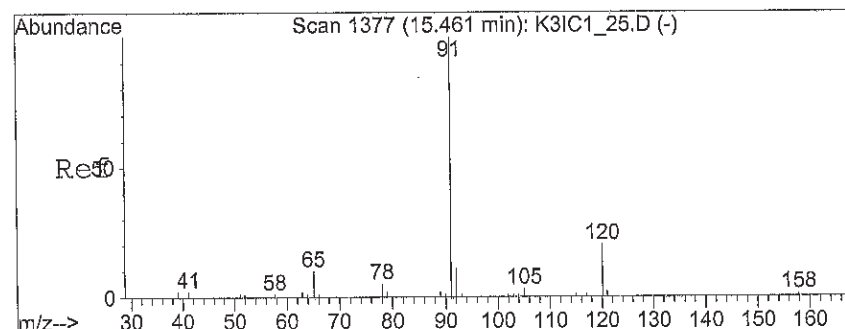
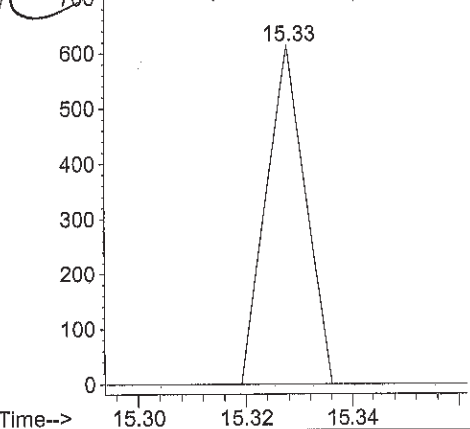
Ion Ratio Lower Upper

75 100

77 0.0 31.2 46.8#



Abundance Ion 75.05 (74.75 to 75.75): E2700003.
Ion 77.00 (76.70 to 77.70): E2700003.



#62

n-Propylbenzene

Concen: 0.07 ug/L

RT: 15.45 min Scan# 1377

Delta R.T. -0.01 min

Lab File: E2700003.D

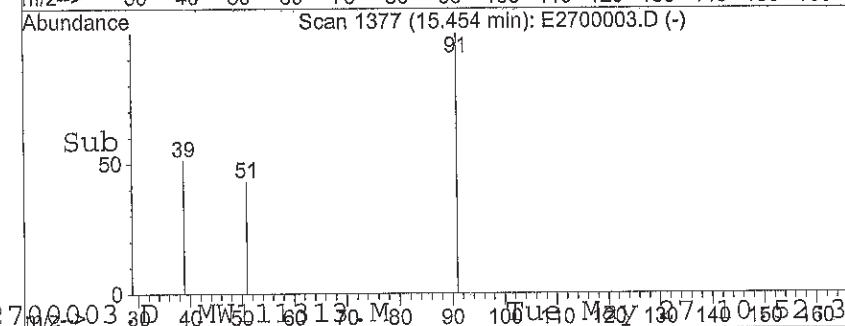
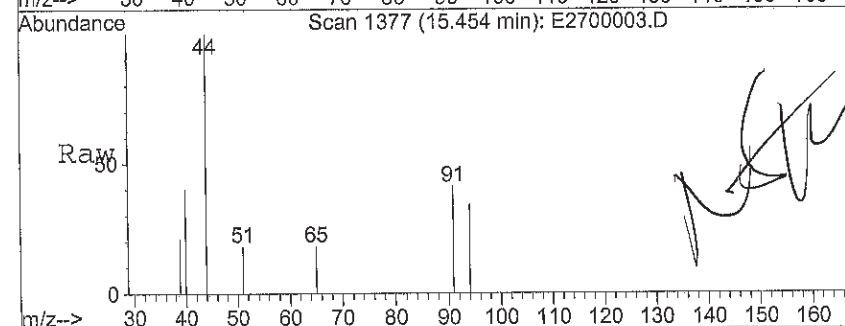
Acq: 27 May 2014 10:27 am

Tgt Ion: 91 Resp: 1810

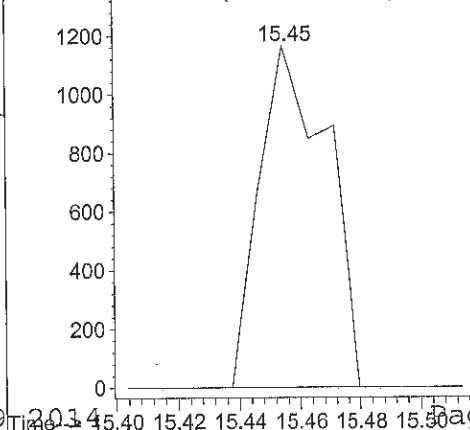
Ion Ratio Lower Upper

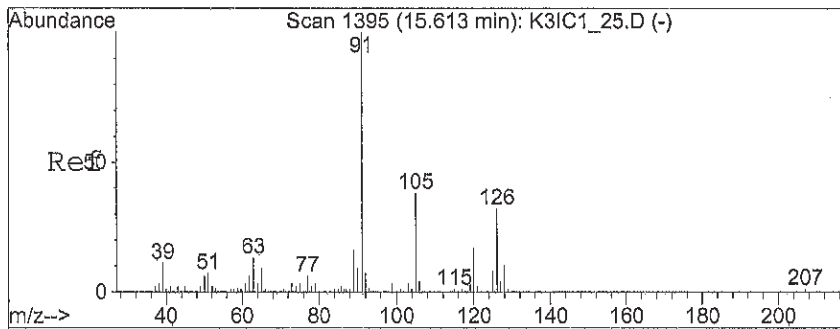
91 100

120 0.0 16.1 24.1#



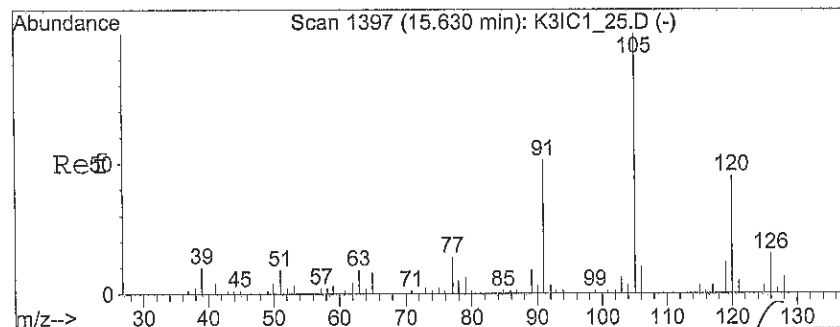
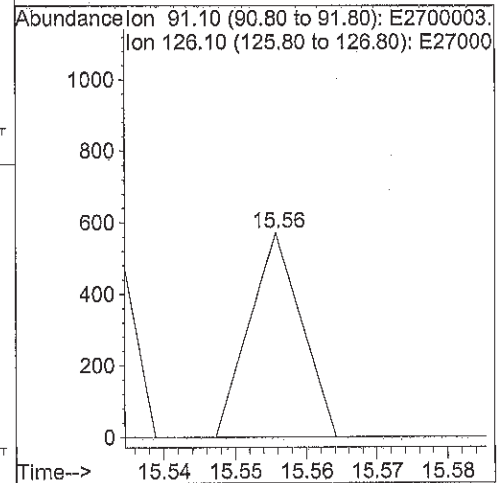
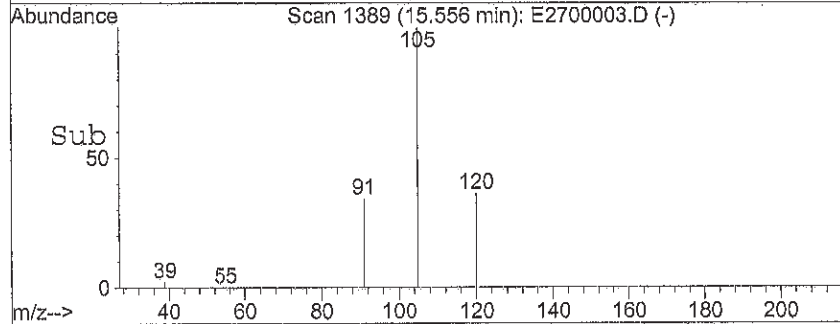
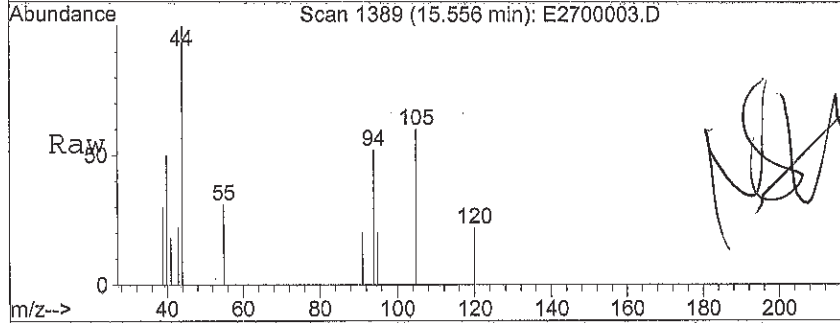
Abundance Ion 91.10 (90.80 to 91.80): E2700003.
Ion 120.15 (119.85 to 120.85): E2700003.





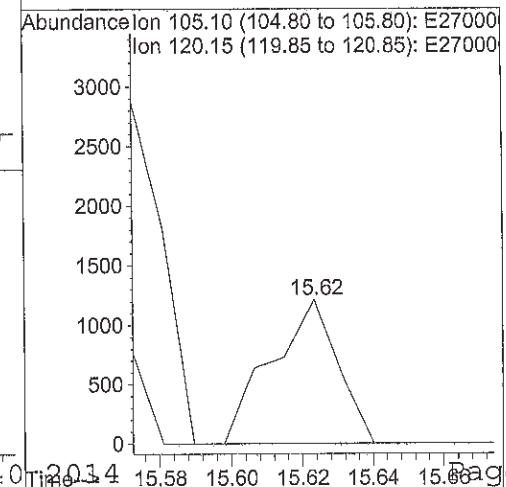
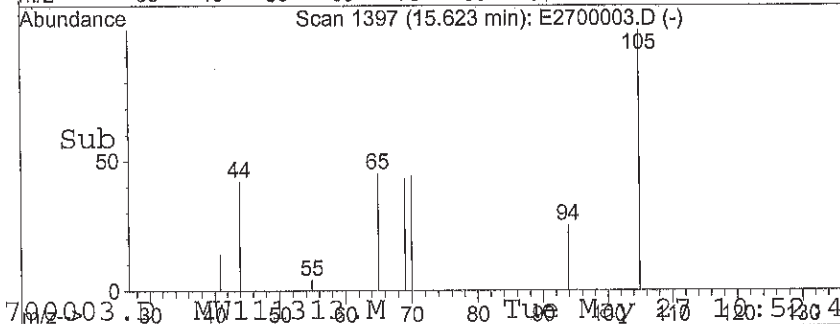
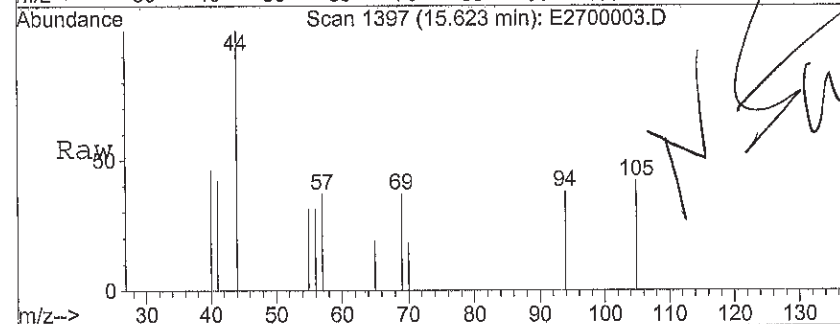
#63
 2-Chlorotoluene
 Concen: 0.02 ug/L
 RT: 15.56 min Scan# 1389
 Delta R.T. -0.06 min
 Lab File: E2700003.D
 Acq: 27 May 2014 10:27 am

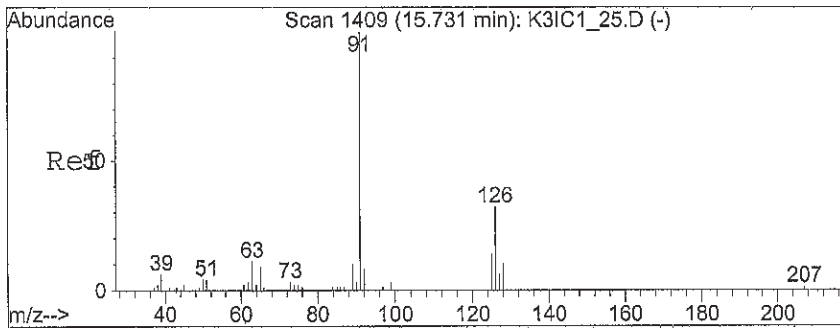
Tgt Ion: 91 Resp: 290
 Ion Ratio Lower Upper
 91 100
 126 0.0 24.0 36.0#



#64
 1,3,5-Trimethylbenzene
 Concen: 0.09 ug/L
 RT: 15.62 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: E2700003.D
 Acq: 27 May 2014 10:27 am

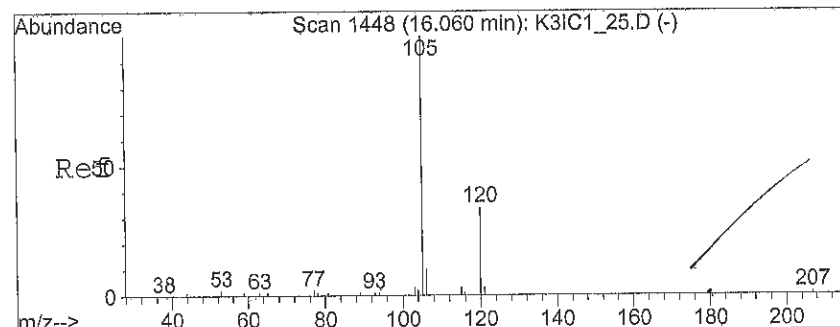
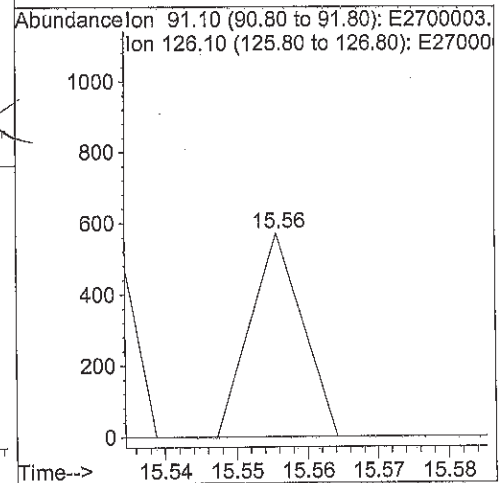
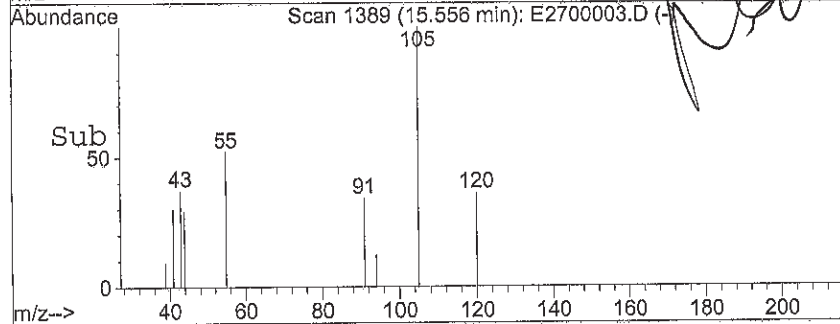
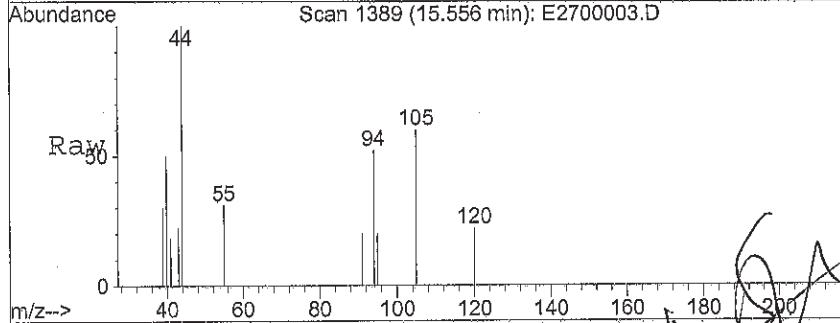
Tgt Ion: 105 Resp: 1575
 Ion Ratio Lower Upper
 105 100
 120 0.0 36.4 54.6#





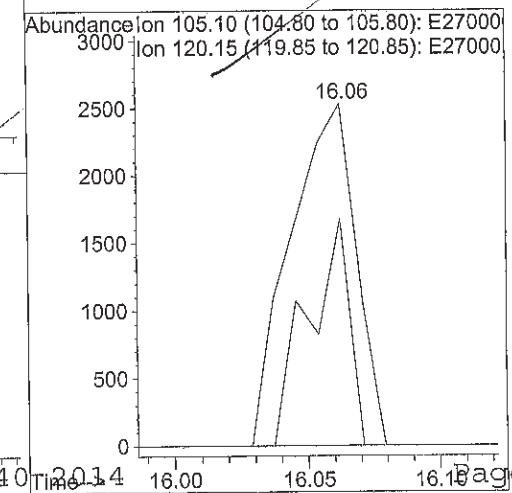
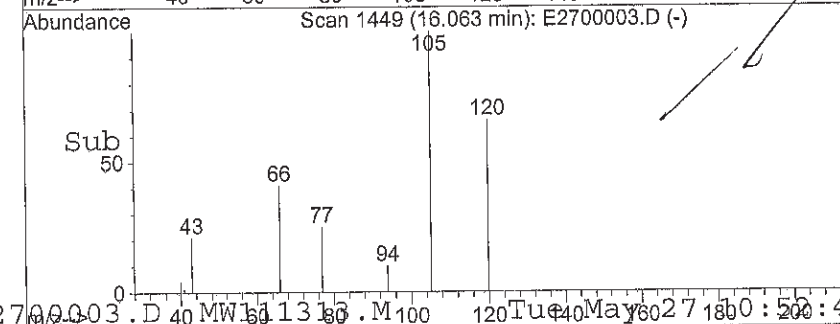
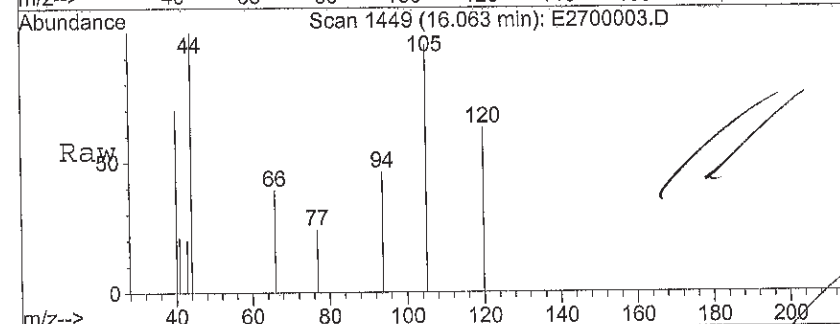
#65
 4-Chlorotoluene
 Concen: 0.02 ug/L
 RT: 15.56 min Scan# 1389
 Delta R.T. -0.18 min
 Lab File: E2700003.D
 Acq: 27 May 2014 10:27 am

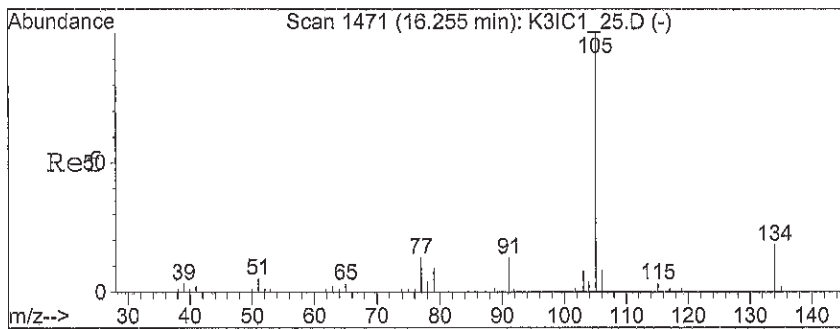
Tgt Ion: 91 Resp: 290
 Ion Ratio Lower Upper
 91 100
 126 0.0 24.6 36.8#



#67
 1,2,4-Trimethylbenzene
 Concen: 0.24 ug/L
 RT: 16.06 min Scan# 1449
 Delta R.T. 0.00 min
 Lab File: E2700003.D
 Acq: 27 May 2014 10:27 am

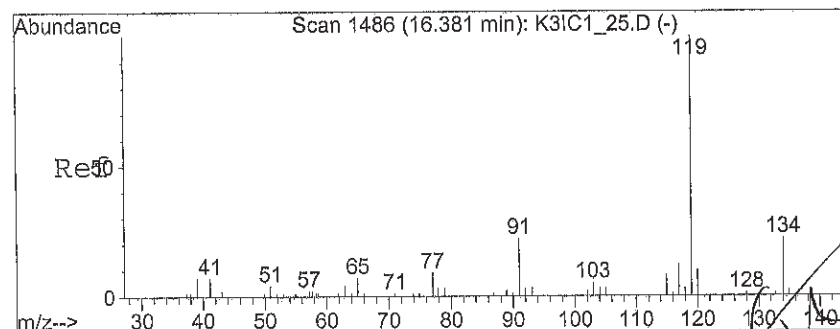
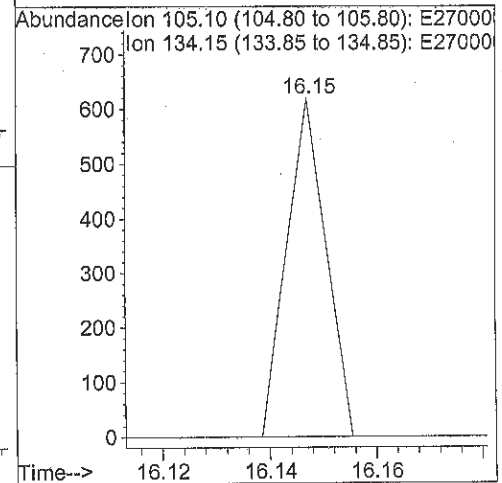
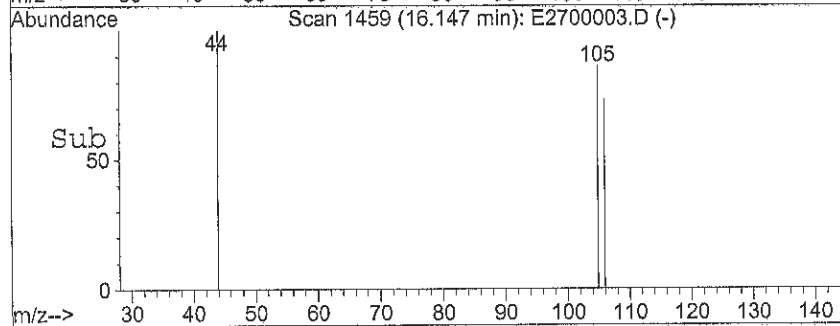
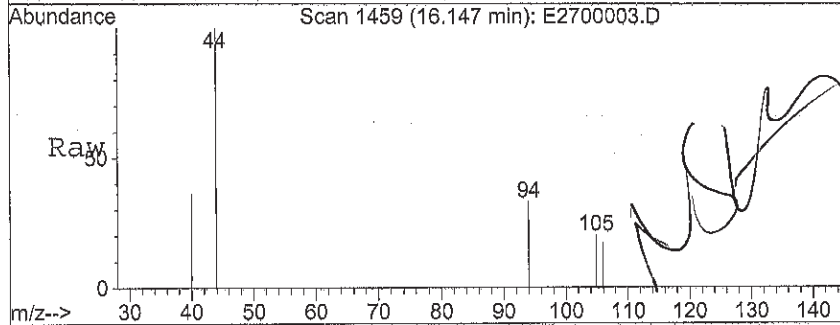
Tgt Ion: 105 Resp: 4346
 Ion Ratio Lower Upper
 105 100
 120 41.6 33.8 50.8





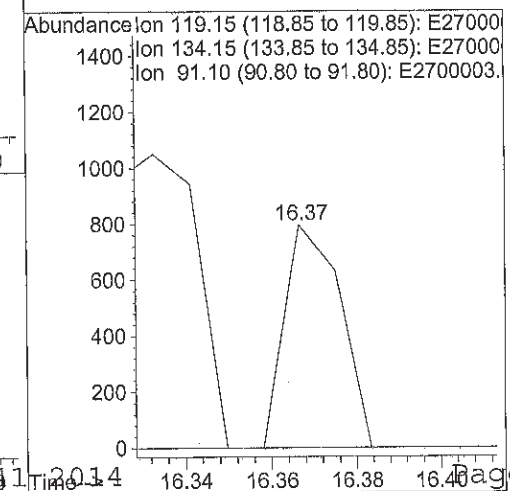
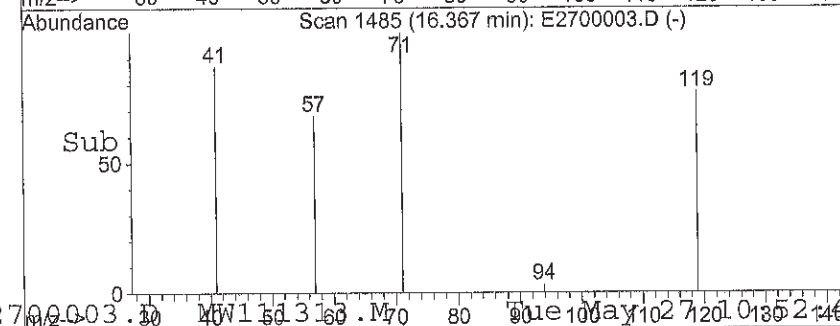
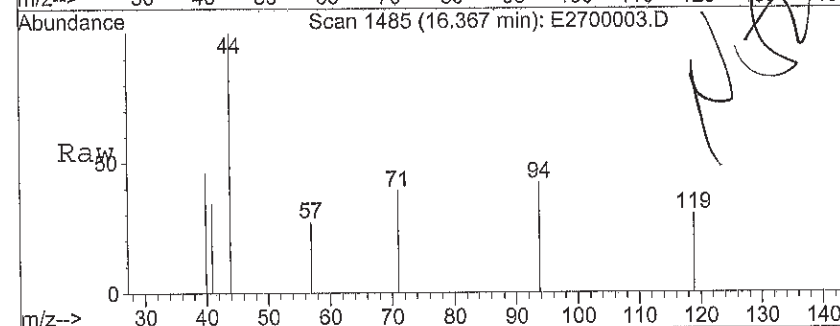
#68
 sec-Butylbenzene
 Concen: 0.01 ug/L
 RT: 16.15 min Scan# 1459
 Delta R.T. -0.11 min
 Lab File: E2700003.D
 Acq: 27 May 2014 10:27 am

Tgt Ion:105 Resp: 314
 Ion Ratio Lower Upper
 105 100
 134 0.0 13.0 19.6#



#69
 p-Isopropyltoluene
 Concen: 0.04 ug/L
 RT: 16.37 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: E2700003.D
 Acq: 27 May 2014 10:27 am

Tgt Ion:119 Resp: 723
 Ion Ratio Lower Upper
 119 100
 134 0.0 17.4 26.2#
 91 0.0 19.6 29.4#



Data File : C:\HPCHEM\1\DATA\052714L3\E2700003.D

Vial: 2

Acq On : 27 May 2014 10:27 am

Operator: DN

Sample : 34E2701-DUP1

Inst : GC/MS Ins

Misc : 100cc SVL-502-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 10:53 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1808256	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.92	117	1341570	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	685345	12.50	ug/L	-0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	502458	10.68	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	85.44%
3) Chloroform-d (SU6)	9.19	84	789526	11.70	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	93.60%
4) Methylene Chloride-d2 (SU5)	7.08	86	454712	11.53	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	92.24%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	490615	15.27	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	122.16%
6) Benzene-d6 (SU7)	9.92	84	1538661	10.84	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	86.72%
8) Toluene-d8 (SU3)	12.20	98	1554440	12.21	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	97.68%
9) 4-Bromofluorobenzene (SU4)	15.22	95	719373	13.69	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	109.52%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700003.D SS072713.M

Tue May 27 10:53:28 2014

Page 1

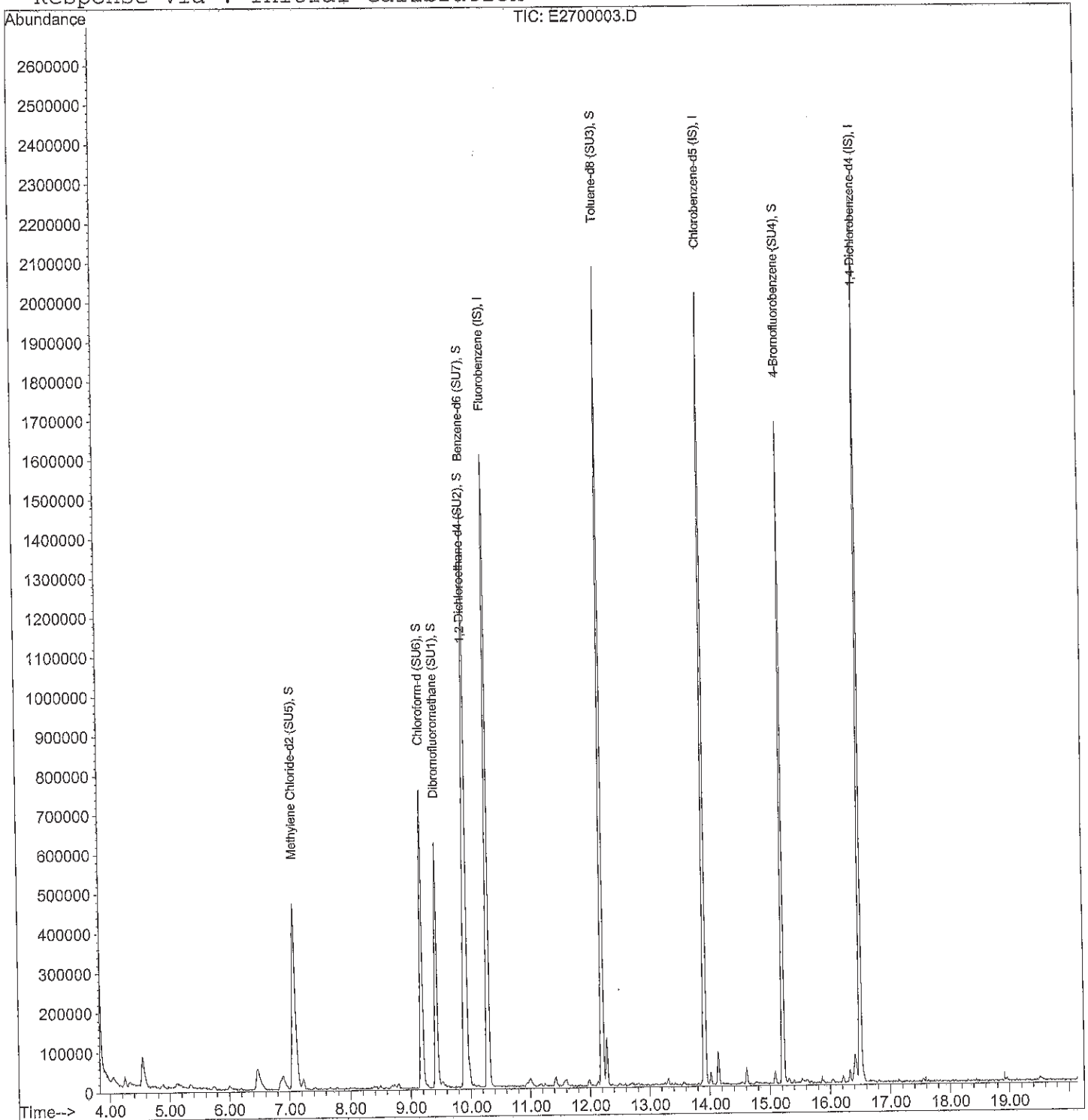
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700003.D
 Acq On : 27 May 2014 10:27 am
 Sample : 34E2701-DUP1
 Misc : 100cc SVL-502-SA5D-SV-5.0-6.0
 MS Integration Params: rteint.p
 Quant Time: May 27 10:53 19114

Vial: 2
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



**RAW DATA FOR QC SAMPLES AND INITIAL CALIBRATION
LABORATORY CONTROL SAMPLES**

Data File : C:\HPCHEM\1\DATA\052714L3\0527LCS01.D

Vial: 10

Acq On : 27 May 2014 7:33 am

Operator: DN

Sample : 34E2701-BS1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 27 8:03 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

AP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	17714010	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	12696970	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	637939	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	503189	11.39	ug/L	0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	91.12%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	488808	11.64	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	93.12%
39) Toluene-d8 (SU3)	12.20	98	1479874	12.50	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	100.00%
58) 4-Bromofluorobenzene (SU4)	15.22	95	681037	13.11	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	104.88%

Target Compounds

					Qvalue
3) (F12) Dichlorodifluorometh	4.09	85	29536	0.68	ug/L 100
4) Chloromethane	4.47	50	38639	1.18	ug/L 79
5) Vinyl Chloride	4.60	62	43500	1.39	ug/L 65
6) Bromomethane	5.16	96	29328	1.33	ug/L 1
7) Chloroethane	5.29	64	18328	1.33	ug/L 93
8) (F11) Trichlorofluorometha	5.67	101	65070	1.34	ug/L 96
9) (F113) 1,1,2-Trichloro-tri	6.37	151	42218	1.21	ug/L 95
10) 1,1-Dichloroethene	6.43	96	46849	1.12	ug/L 92
11) Acetone	6.46	58	53335	-12.50	ug/L 92
12) (IPA) Leak Check Compound	6.54	45	123373	57.96	ug/L # 89
13) Carbon disulfide	6.86	76	200613	1.36	ug/L 99
14) Methylene Chloride	7.11	84	64670	1.33	ug/L 94
15) (TBA) tert-Butanol	7.09	59	2724	0.90	ug/L # 77
16) (MTBE) Methyl-t-butyl ethe	7.41	73	105877	1.05	ug/L 97
17) trans-1,2-Dichloroethene	7.48	96	64128	1.35	ug/L 94
18) 1,1-Dichloroethane	8.07	63	80456	1.01	ug/L 93
19) cis-1,2-Dichloroethene	8.83	96	67769	1.22	ug/L 93
20) 2,2-Dichloropropane	8.84	77	342	0.00	ug/L # 1
21) (MEK) 2-Butanone	8.79	72	11107	2.23	ug/L # 69
22) (DIPE) Diisopropyl Ether	8.01	45	192374	1.39	ug/L 97
23) Bromochloromethane	9.17	128	25708	1.08	ug/L # 86
24) Chloroform	9.21	83	110254	1.19	ug/L 100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E27LCS01.D

Vial: 10

Acq On : 27 May 2014 7:33 am

Operator: DN

Sample : 34E2701-BS1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 27 8:03 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) (ETBE) 2-ethoxy 2-methyl p	8.49	59	126590	0.99	ug/L #	99
26) 1,1,1-Trichloroethane	9.50	97	71843	0.98	ug/L	93
27) (TAME) tert-Amyl methyl et	10.00	73	122275	1.10	ug/L #	96
29) 1,1-Dichloropropene	9.69	75	80786	1.18	ug/L	99
30) Carbon Tetrachloride	13.89	117	75683	1.27	ug/L	92
31) Benzene	9.98	78	212137	1.27	ug/L #	93
32) 1,2-Dichloroethane	9.99	62	71510	1.21	ug/L	96
33) Trichloroethene	10.74	130	67899	1.26	ug/L	99
34) 1,2-Dichloropropane	11.05	63	54930	1.38	ug/L	93
35) Dibromomethane	11.21	93	40202	1.29	ug/L	99
36) Bromodichloromethane	11.35	83	72653	1.16	ug/L	96
37) cis-1,3-Dichloropropene	11.87	75	68065	1.00	ug/L	94
40) (MIBK) 4-Methyl-2-Pentanone	12.12	43	14071	0.56	ug/L #	100
41) Toluene	12.29	91	228294	1.32	ug/L	96
42) trans-1,3-Dichloropropene	12.51	75	47433	0.83	ug/L #	74
43) 1,1,2-Trichloroethane	12.75	83	43739	1.40	ug/L	90
44) Tetrachloroethene	12.94	164	71041	1.17	ug/L	96
45) 1,3-Dichloropropane	12.96	76	78166	1.32	ug/L	96
46) 2-Hexanone	12.96	43	49657	1.79	ug/L	99
47) Dibromochloromethane	13.25	129	57668	1.29	ug/L #	96
48) 1,2-Dibromoethane	13.43	107	58294	1.44	ug/L	98
49) Chlorobenzene	13.95	112	154354	1.32	ug/L	95
50) 1,1,1,2-Tetrachloroethane	14.02	131	50284	1.21	ug/L	97
51) Ethylbenzene	14.02	91	264142	1.34	ug/L	100
52) m,p-Xylenes	14.15	106	194695	2.78	ug/L	93
53) o-Xylene	14.61	106	89953	1.30	ug/L	94
54) Styrene	14.63	104	150579	1.51	ug/L	97
55) Bromoform	14.91	173	34879	1.38	ug/L	96
56) Isopropylbenzene	15.00	105	258545	1.36	ug/L	99
57) 1,2,3-Trichloropropane	15.42	75	69213	1.34	ug/L #	1
60) 1,1,2,2-Tetrachloroethane	15.33	83	63942	1.39	ug/L	98
61) Bromobenzene	15.43	156	66775	1.33	ug/L	95
62) n-Propylbenzene	15.45	91	327658	1.27	ug/L	99
63) 2-Chlorotoluene	15.61	91	204311	1.29	ug/L	98
64) 1,3,5-Trimethylbenzene	15.62	105	204021	1.28	ug/L	98
65) 4-Chlorotoluene	15.72	91	198638	1.35	ug/L	100
66) tert-Butylbenzene	16.01	119	169471	1.25	ug/L	93

(#) = qualifier out of range (m) = manual integration
 E27LCS01.D MW111313.M Tue May 27 08:03:24 2014

Data File : C:\HPCHEM\1\DATA\052714L3\E27LCS01.D

Vial: 10

Acq On : 27 May 2014 7:33 am

Operator: DN

Sample : 34E2701-BS1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 27 8:03 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 1,2,4-Trimethylbenzene	16.05	105	211499	1.28	ug/L	94
68) sec-Butylbenzene	16.24	105	282869	1.32	ug/L	99
69) p-Isopropyltoluene	16.38	119	213433	1.22	ug/L	95
70) 1,3-Dichlorobenzene	16.43	146	129408	1.37	ug/L	96
71) 1,4-Dichlorobenzene	16.54	146	125663	1.33	ug/L	97
72) n-Butylbenzene	16.84	91	234736	1.28	ug/L	98
73) 1,2-Dichlorobenzene	16.98	146	113627	1.35	ug/L	98
74) 1,2-Dibromo-3-chloropropan	17.93	75	9221	1.32	ug/L #	73
75) 1,2,4-Trichlorobenzene	19.03	180	73053	1.28	ug/L	97
76) Hexachlorobutadiene	19.20	225	35320	1.38	ug/L	95
77) Naphthalene	19.44	128	160112	1.27	ug/L	100
78) Hexachloroethane	17.29	201	20932	1.13	ug/L #	89
79) 1,2,3-Trichlorobenzene	19.81	180	64381	1.19	ug/L	97

(#) = qualifier out of range (m) = manual integration

E27LCS01.D MW111313.M

Tue May 27 08:03:24 2014

Page 3

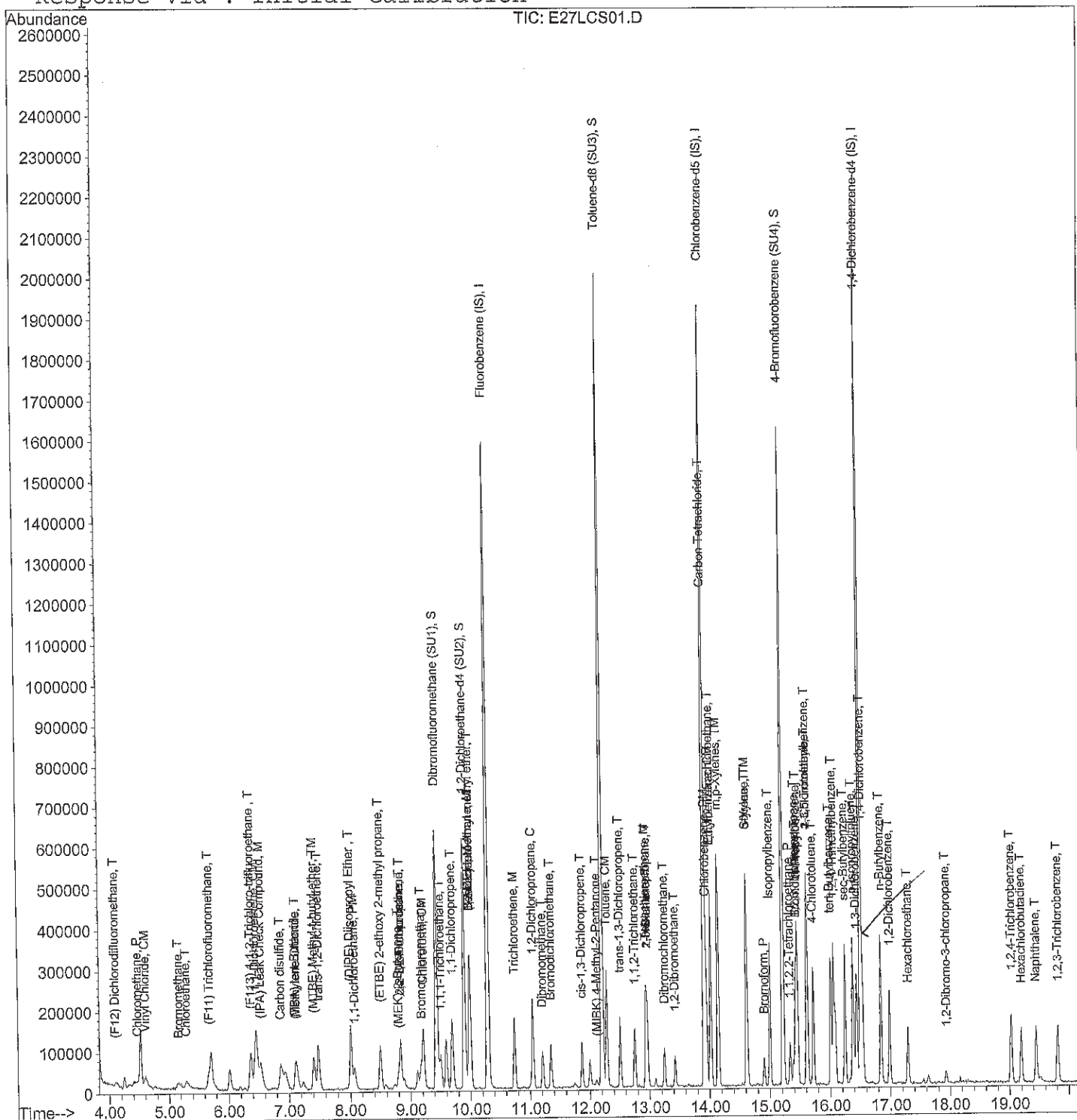
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E27LCS01.D
Acq On : 27 May 2014 7:33 am
Sample : 34E2701-BS1
Misc : 20cc 1.25/2.5/12.5 ug/L LCS
MS Integration Params: rteint.p
Quant Time: May 27 8:03 19114 Quan

Vial: 10
Operator: DN
Inst: GC/MS Ins
Multiplr: 1.00

Quant Results File: MW111313.RES

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Method       : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title        : 8260B      GC/MS #3      ICAL 11/13/13   DN
Last Update  : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
```



RAW DATA FOR QC SAMPLES AND INITIAL CALIBRATION
BLANK

Data File : C:\HPCHEM\1\DATA\052714L3\E27BLK01.D
 Acq On : 27 May 2014 9:00 am
 Sample : 34E2701-BLK1
 Misc : 100cc AMBIENT AIR/H2O
 MS Integration Params: rteint.p
 Quant Time: May 27 9:21 19114

Vial: 11
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1865195	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1375456	12.50	ug/L	-0.01
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	703693	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	509925	10.96	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	87.68%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	480809	10.87	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	86.96%
39) Toluene-d8 (SU3)	12.20	98	1606996	12.53	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	100.24%
58) 4-Bromofluorobenzene (SU4)	15.22	95	718155	12.77	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	102.16%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	4.41	50	3502	-0.10	ug/L #	41
6) Bromomethane	5.13	96	2338	-0.64	ug/L #	1
7) Chloroethane	5.23	64	856	1.24	ug/L #	32
11) Acetone	6.48	58	24602	36.82	ug/L #	93
12) (IPA) Leak Check Compound	6.48	45	34072	152.02	ug/L #	100
14) Methylene Chloride	7.07	84	7216	1.41	ug/L #	1
15) (TBA) tert-Butanol	6.91	59	2586	8.13	ug/L #	77
21) (MEK) 2-Butanone	8.79	72	2669	5.09	ug/L #	1
24) Chloroform	9.21	83	1638	0.17	ug/L #	18
29) 1,1-Dichloropropene	9.91	75	582	0.08	ug/L #	1
31) Benzene	9.92	78	11295	0.64	ug/L #	80
32) 1,2-Dichloroethane	9.93	62	6988	1.13	ug/L #	1
35) Dibromomethane	10.99	93	281	0.09	ug/L #	5
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	7959	2.90	ug/L #	100
41) Toluene	12.29	91	1725	0.09	ug/L #	50
46) 2-Hexanone	12.97	43	2459	0.82	ug/L #	80
51) Ethylbenzene	14.02	91	836	0.04	ug/L #	45
52) m,p-Xylenes	14.15	106	266	0.04	ug/L #	1
54) Styrene	14.63	104	1313	-0.75	ug/L #	67
56) Isopropylbenzene	15.23	105	600	0.03	ug/L #	1
62) n-Propylbenzene	15.21	91	1331	0.05	ug/L #	56
67) 1,2,4-Trimethylbenzene	16.05	105	276	0.02	ug/L #	33

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E27BLK01.D Vial: 11
Acq On : 27 May 2014 9:00 am Operator: DN
Sample : 34E2701-BLK1 Inst : GC/MS Ins
Misc : 100cc AMBIENT AIR/H2O Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: May 27 9:21 19114 Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) sec-Butylbenzene	16.15	105	608	0.03	ug/L #	62
69) p-Isopropyltoluene	16.38	119	319	0.02	ug/L #	52

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E27BLK01.D

Vial: 11

Acq On : 27 May 2014 9:00 am

Operator: DN

Sample : 34E2701-BLK1

Inst : GC/MS Ins

Misc : 100cc AMBIENT AIR/H2O

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 9:21 19114

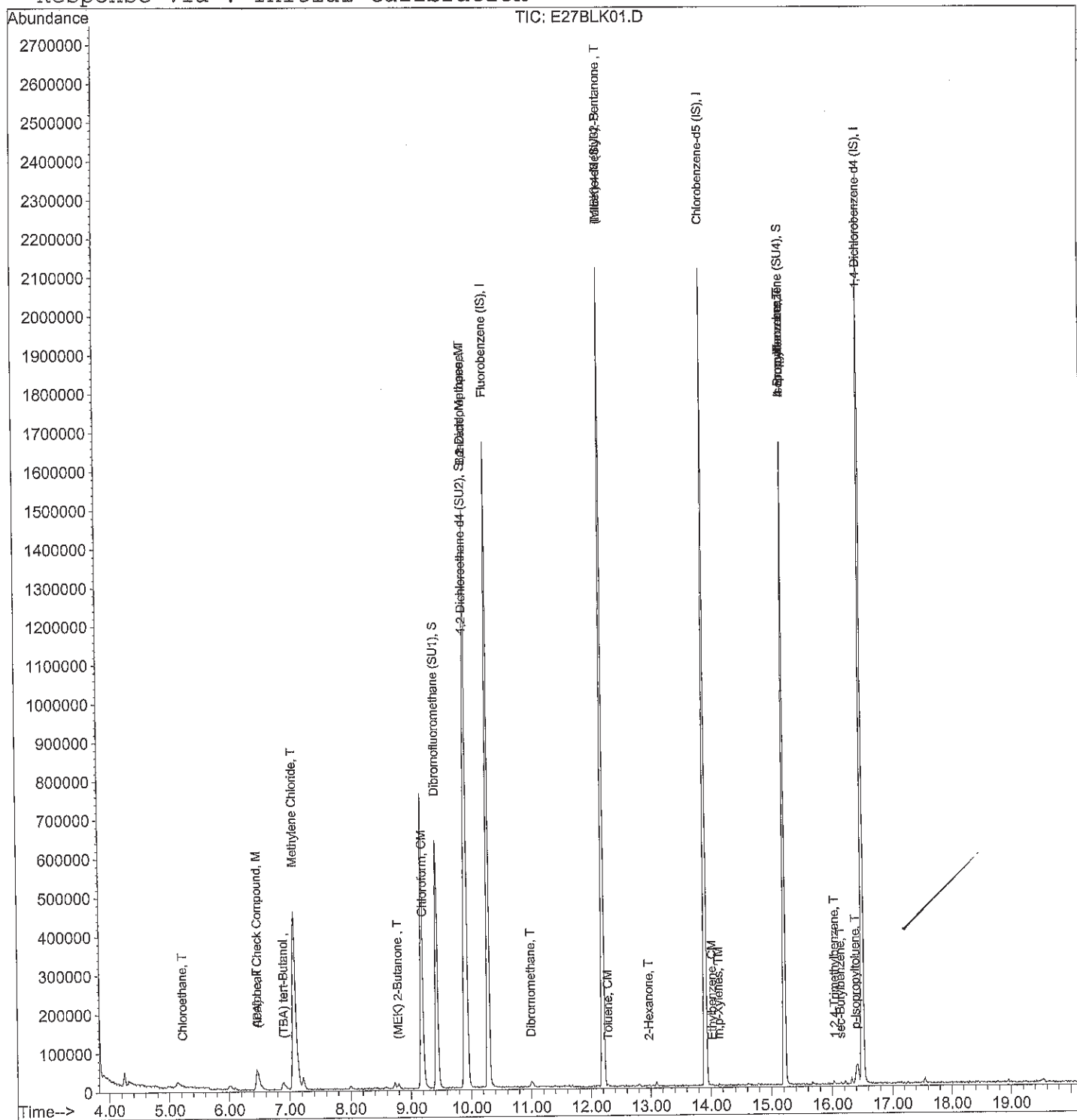
Quant Results File: MW111313.RES

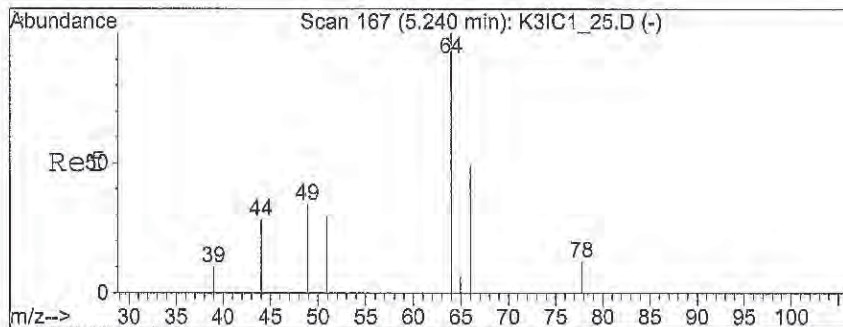
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

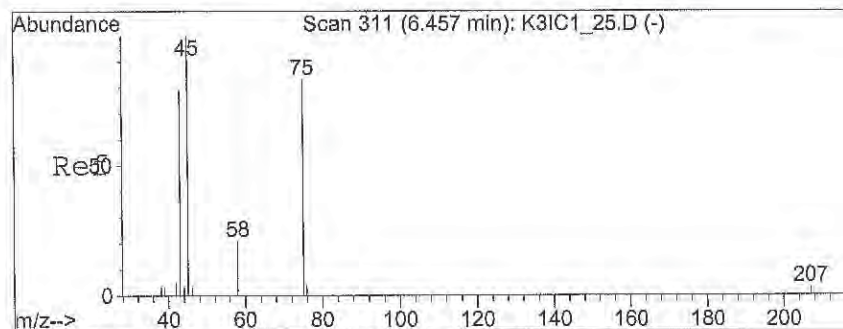
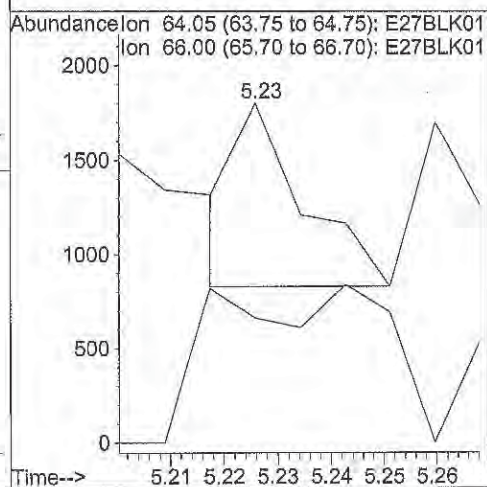
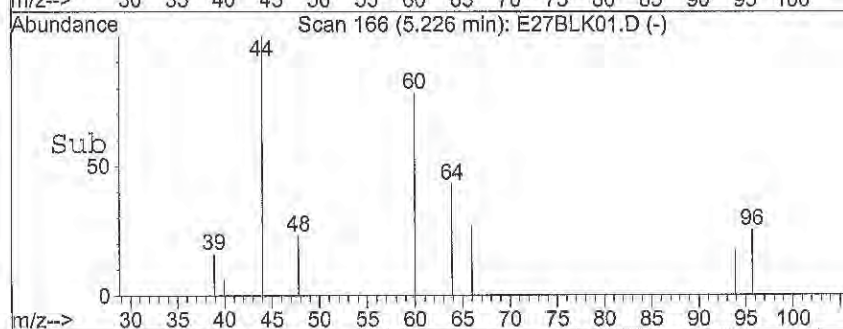
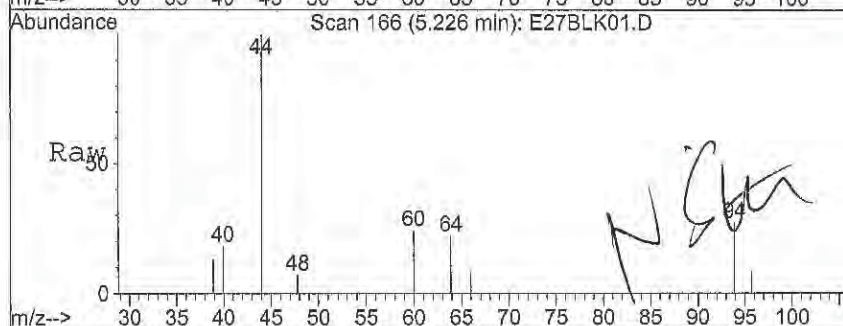
Response via : Initial Calibration





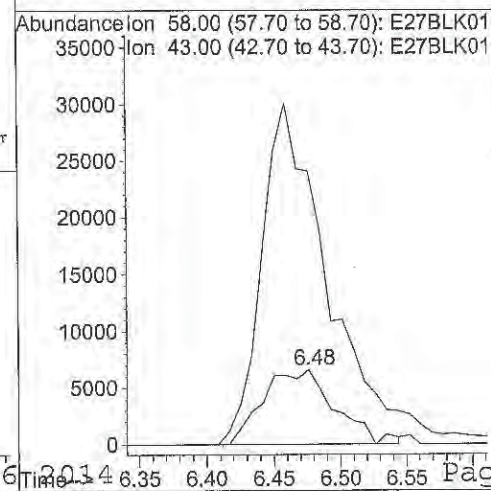
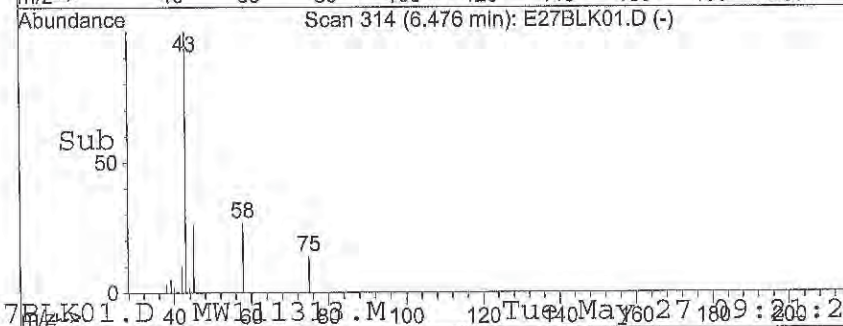
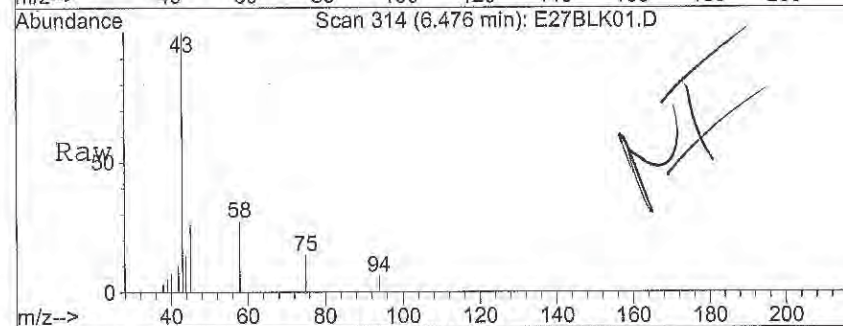
#7
 Chloroethane
 Concen: 1.24 ug/L
 RT: 5.23 min Scan# 166
 Delta R.T. -0.01 min
 Lab File: E27BLK01.D
 Acq: 27 May 2014 9:00 am

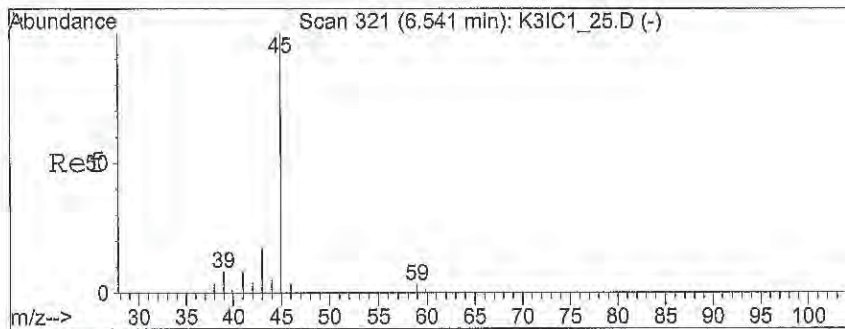
Tgt Ion: 64 Resp: 856
 Ion Ratio Lower Upper
 64 100
 66 0.0 35.4 53.0#



#11
 Acetone
 Concen: 36.82 ug/L
 RT: 6.48 min Scan# 314
 Delta R.T. 0.02 min
 Lab File: E27BLK01.D
 Acq: 27 May 2014 9:00 am

Tgt Ion: 58 Resp: 24602
 Ion Ratio Lower Upper
 58 100
 43 434.0 360.9 541.3





#12

(IPA) Leak Check Compound

Concen: 152.02 ug/L

RT: 6.48 min Scan# 315

Delta R.T. -0.06 min

Lab File: E27BLK01.D

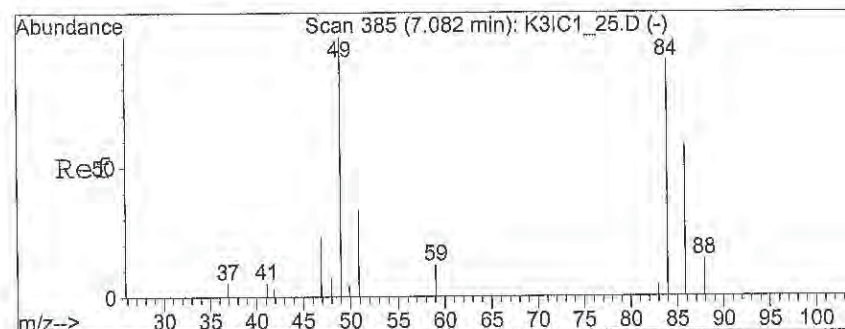
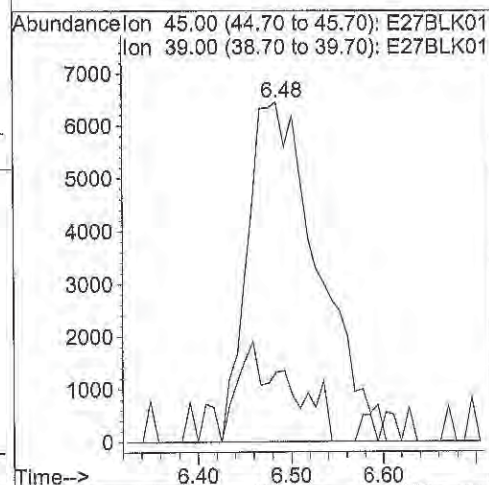
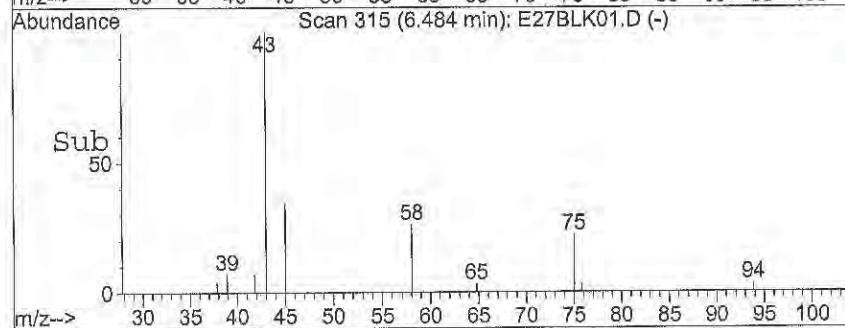
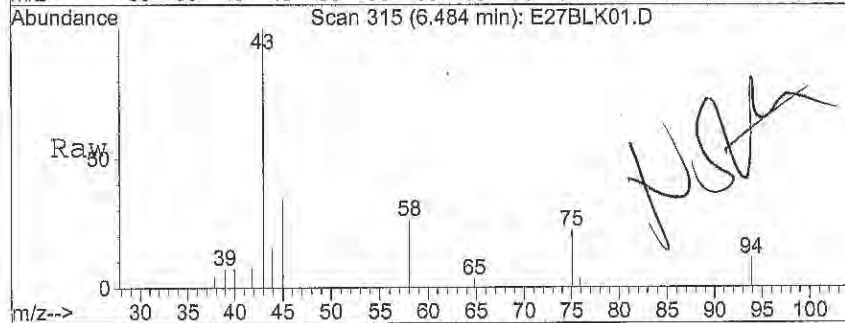
Acq: 27 May 2014 9:00 am

Tgt Ion: 45 Resp: 34072

Ion Ratio Lower Upper

45 100

39 6.2 4.9 7.3



#14

Methylene Chloride

Concen: 1.41 ug/L

RT: 7.07 min Scan# 384

Delta R.T. -0.01 min

Lab File: E27BLK01.D

Acq: 27 May 2014 9:00 am

Tgt Ion: 84 Resp: 7216

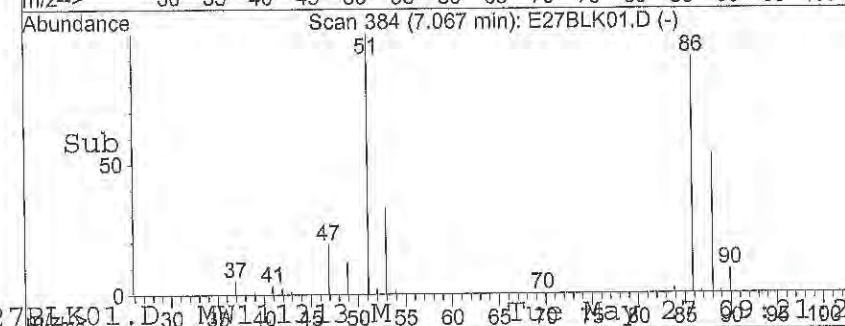
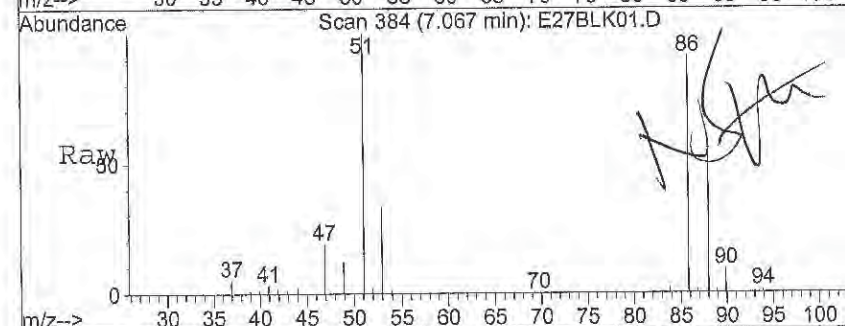
Ion Ratio Lower Upper

84 100

49 864.4 89.8 134.6#

86 6269.0 51.1 76.7#

51 7474.7 28.5 42.7#



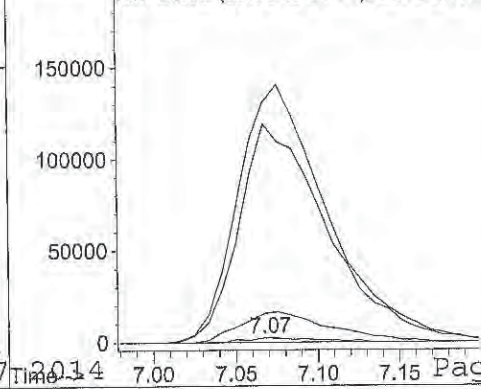
Abundance

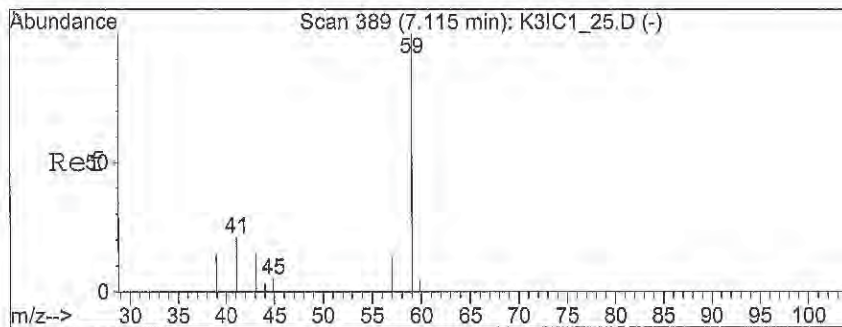
Ion 83.95 (83.65 to 84.65): E27BLK01

Ion 48.95 (48.65 to 49.65): E27BLK01

Ion 85.95 (85.65 to 86.65): E27BLK01

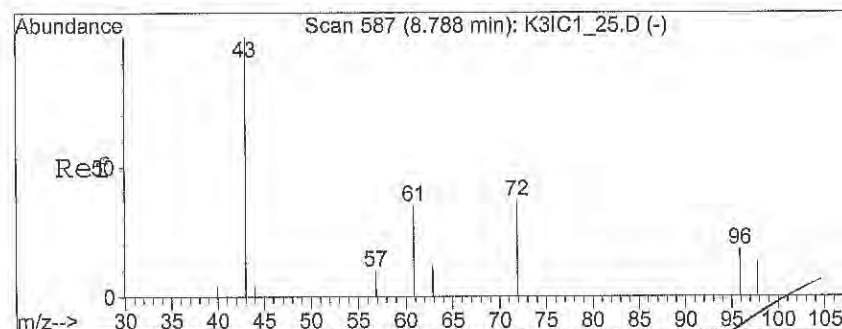
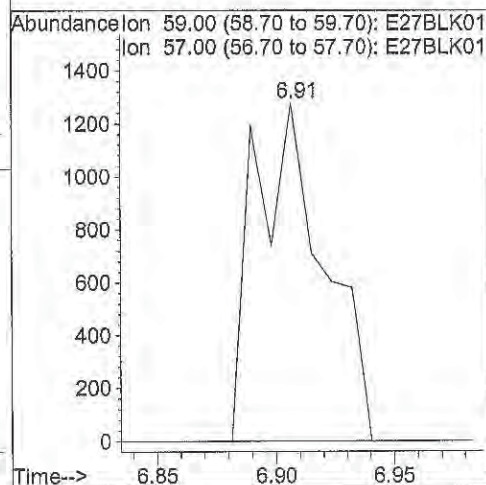
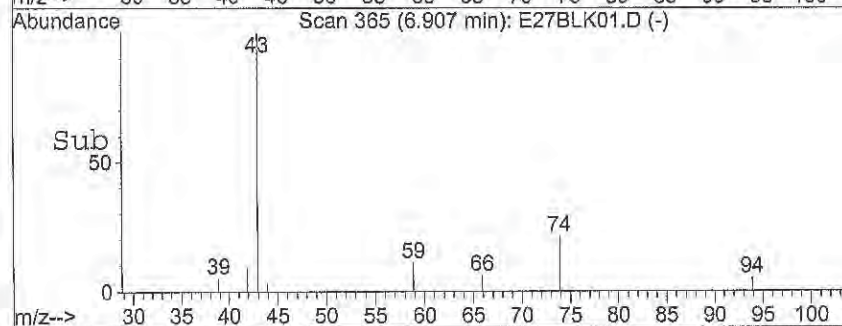
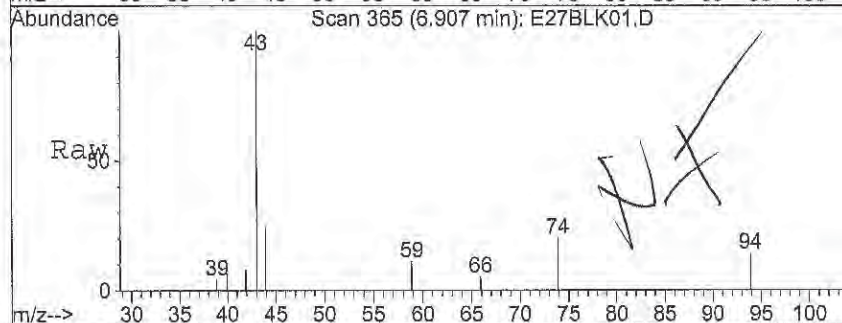
Ion 51.05 (50.75 to 51.75): E27BLK01





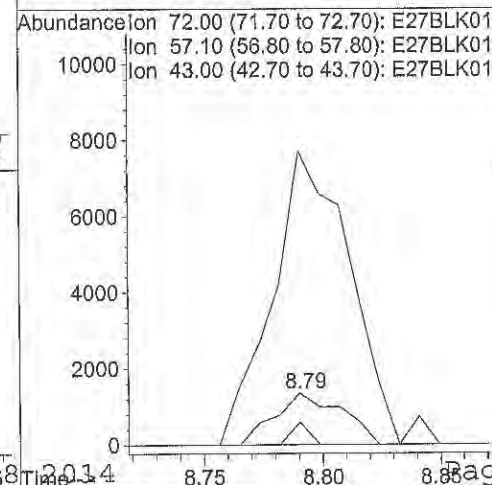
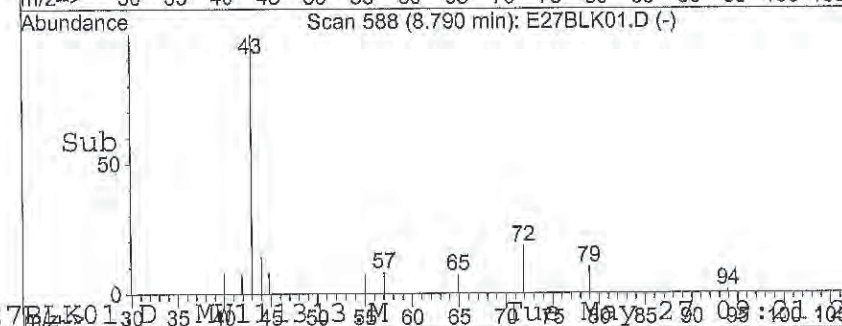
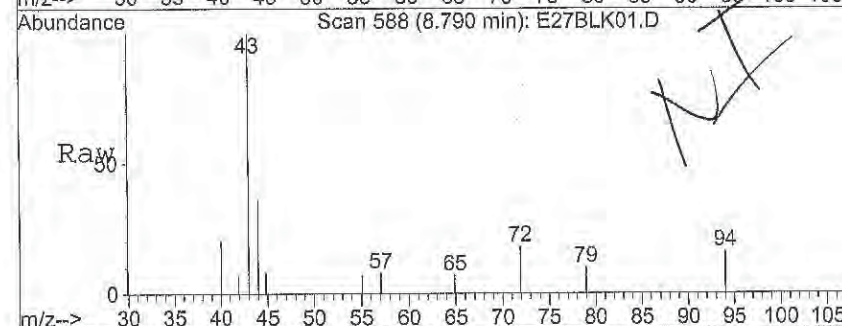
#15
 (TBA) tert-Butanol
 Concen: 8.13 ug/L
 RT: 6.91 min Scan# 365
 Delta R.T. -0.21 min
 Lab File: E27BLK01.D
 Acq: 27 May 2014 9:00 am

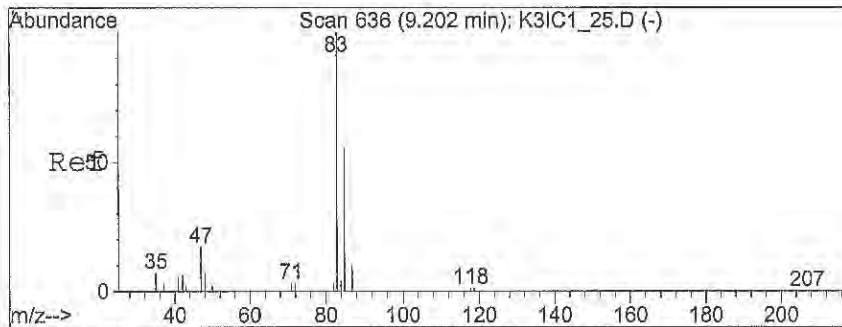
Tgt Ion: 59 Resp: 2586
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#21
 (MEK) 2-Butanone
 Concen: 5.09 ug/L
 RT: 8.79 min Scan# 588
 Delta R.T. 0.00 min
 Lab File: E27BLK01.D
 Acq: 27 May 2014 9:00 am

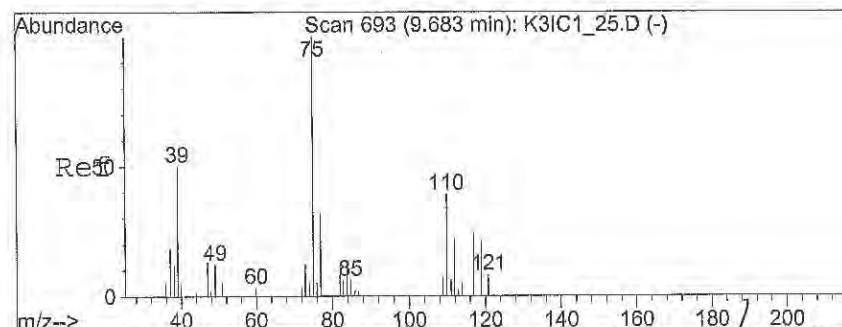
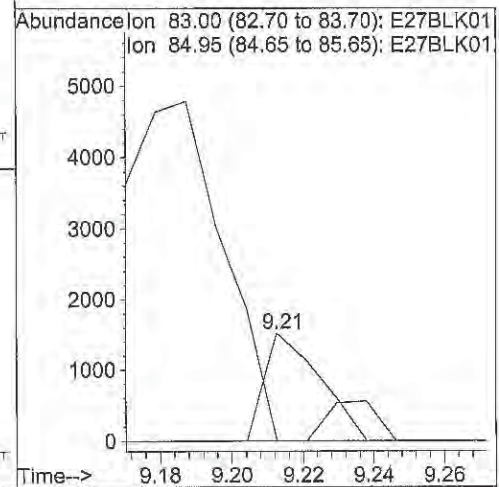
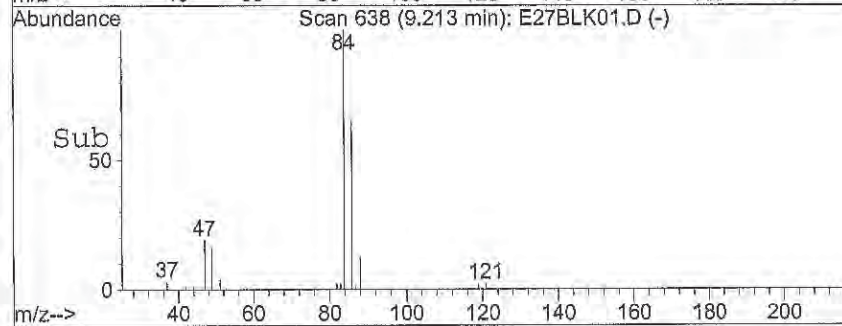
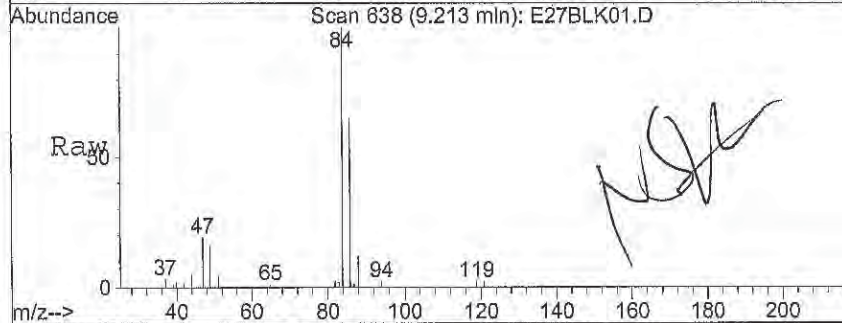
Tgt Ion: 72 Resp: 2669
 Ion Ratio Lower Upper
 72 100
 57 11.1 17.5 26.3#
 43 667.2 314.2 471.2#





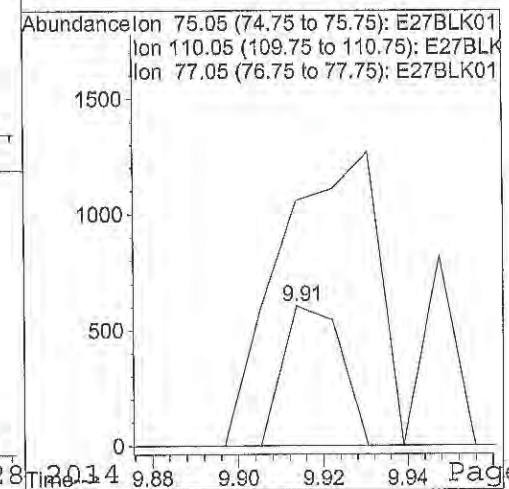
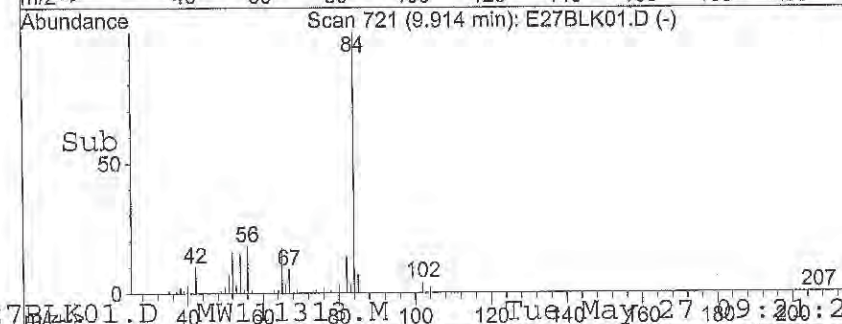
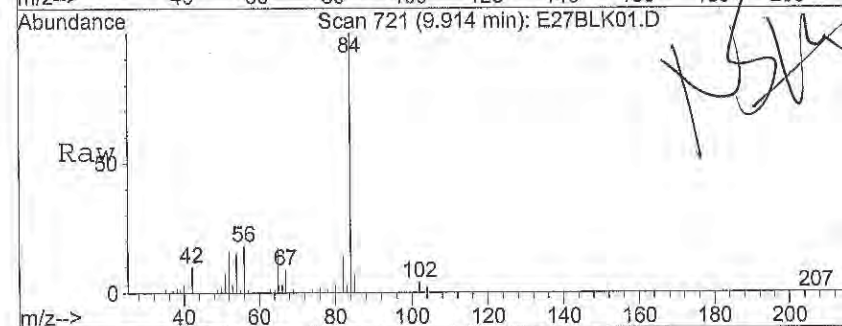
#24
 Chloroform
 Concen: 0.17 ug/L
 RT: 9.21 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: E27BLK01.D
 Acq: 27 May 2014 9:00 am

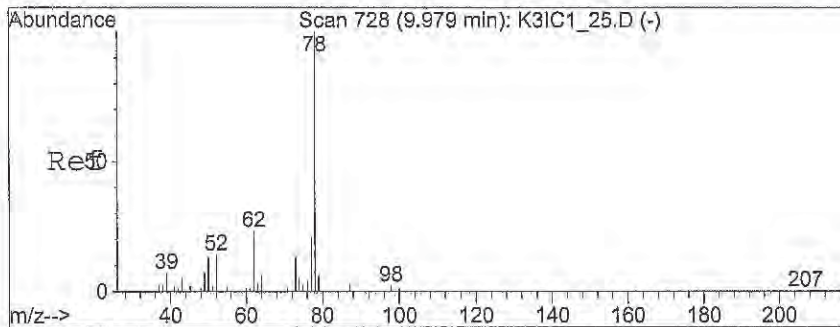
Tgt Ion: 83 Resp: 1638
 Ion Ratio Lower Upper
 83 100
 85 0.0 51.8 77.6#



#29
 1,1-Dichloropropene
 Concen: 0.08 ug/L
 RT: 9.91 min Scan# 721
 Delta R.T. 0.23 min
 Lab File: E27BLK01.D
 Acq: 27 May 2014 9:00 am

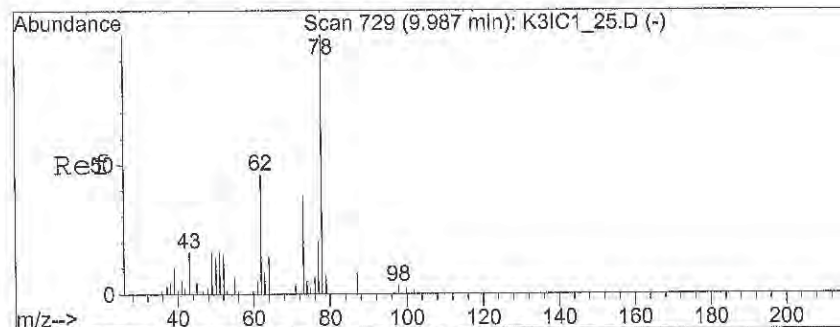
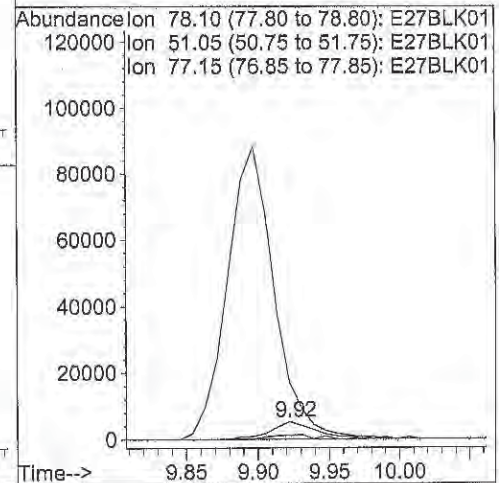
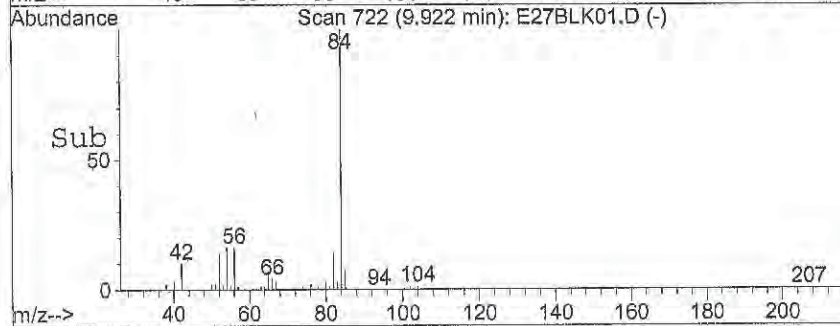
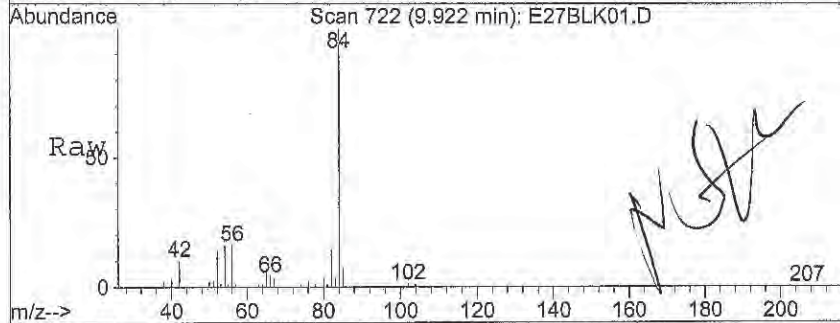
Tgt Ion: 75 Resp: 582
 Ion Ratio Lower Upper
 75 100
 110 0.0 29.0 43.6#
 77 351.0 25.0 37.4#





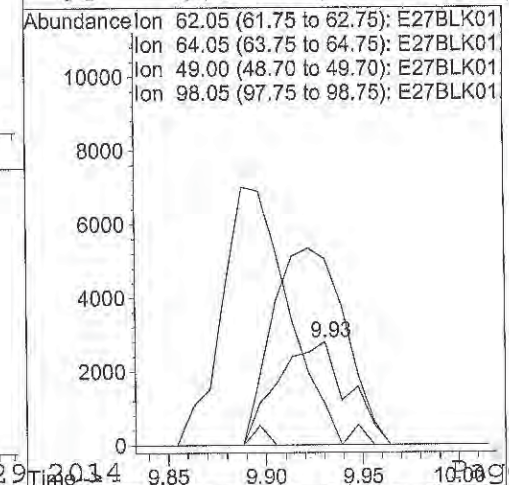
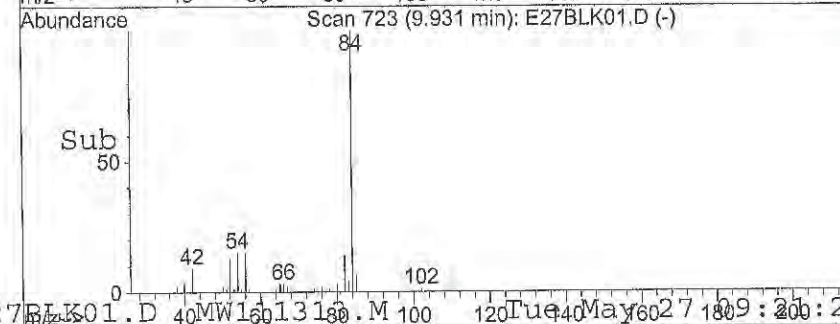
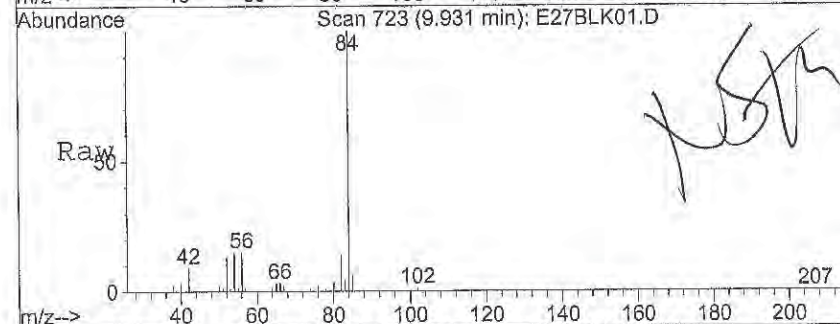
#31
Benzene
Concen: 0.64 ug/L
RT: 9.92 min Scan# 722
Delta R.T. -0.06 min
Lab File: E27BLK01.D
Acq: 27 May 2014 9:00 am

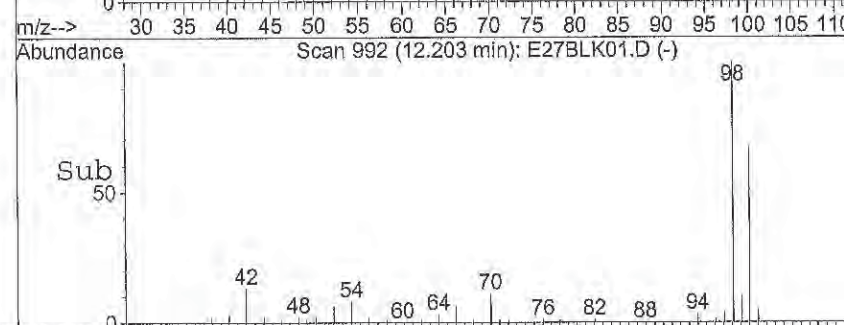
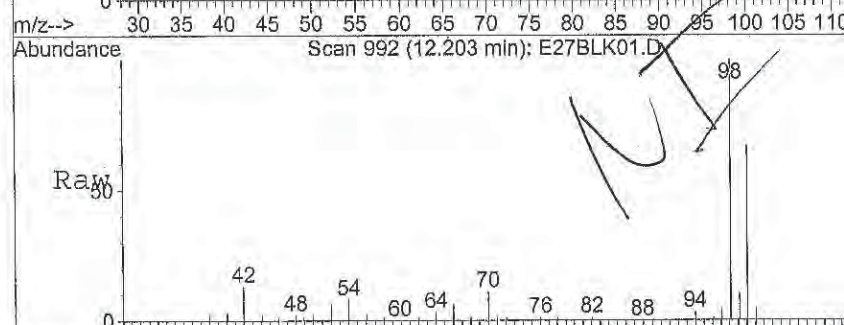
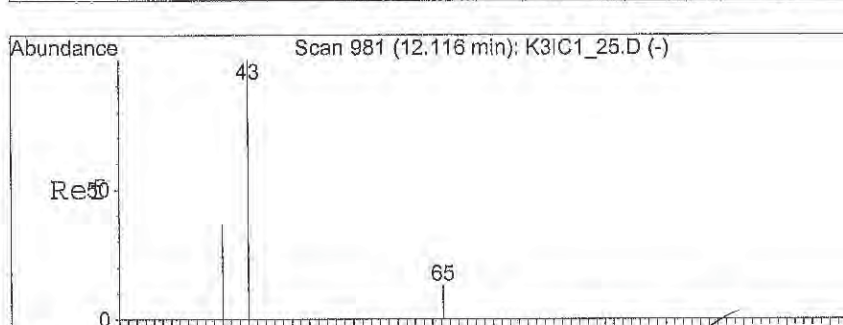
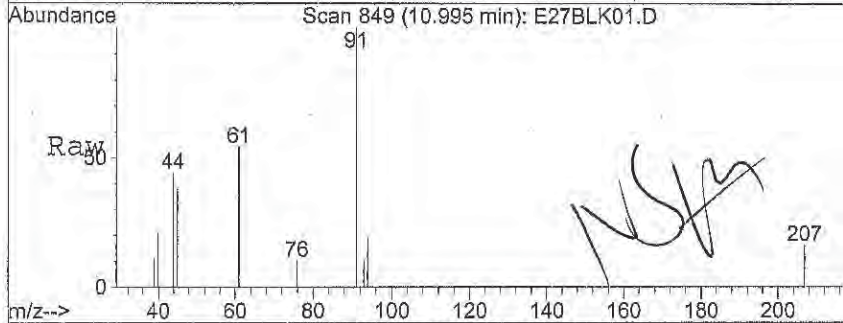
Tgt Ion:	78	Resp:	11295
Ion	Ratio	Lower	Upper
78	100		
51	0.0	14.2	21.2#
77	21.8	16.6	24.8



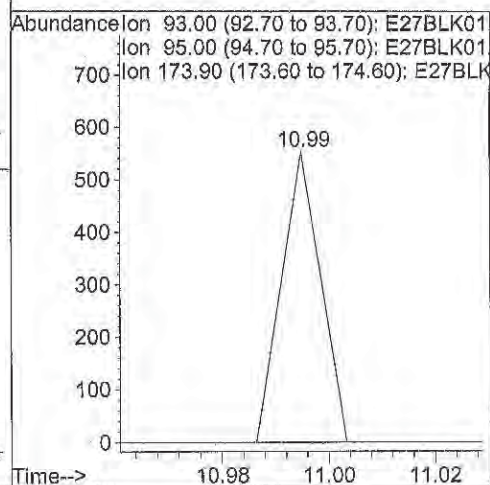
#32
1,2-Dichloroethane
Concen: 1.13 ug/L
RT: 9.93 min Scan# 723
Delta R.T. -0.06 min
Lab File: E27BLK01.D
Acq: 27 May 2014 9:00 am

Tgt Ion:	62	Resp:	6988
Ion	Ratio	Lower	Upper
62	100		
64	200.4	28.0	42.0#
49	0.0	28.5	42.7#
98	0.0	6.2	9.4#

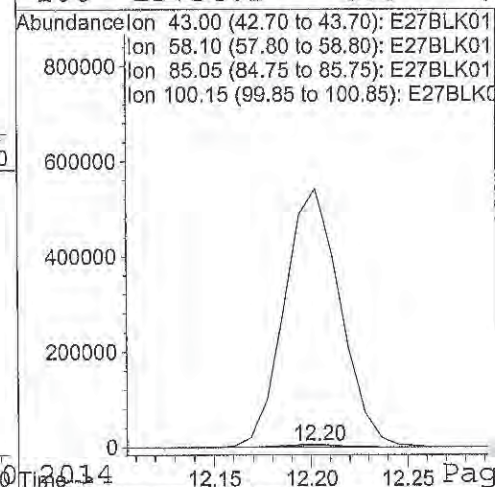




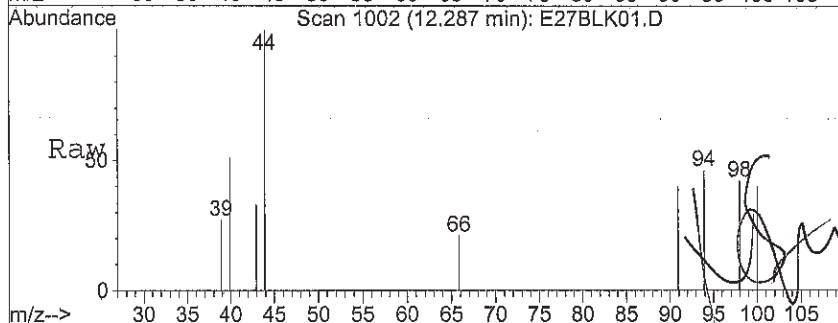
Tgt	Ion: 93	Resp:	281
Ion	Ratio	Lower	Upper
93	100		
95	0.0	66.2	99.2#
174	0.0	75.5	113.3#



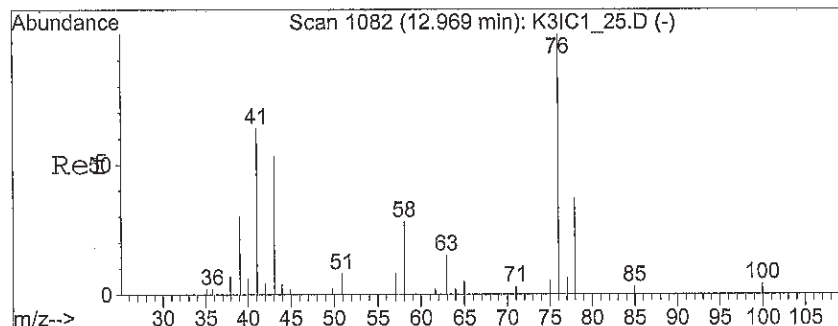
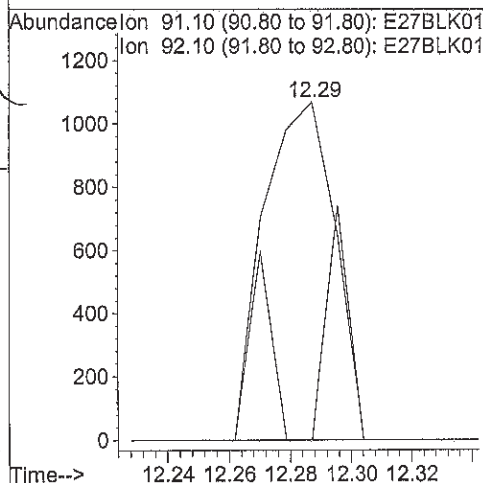
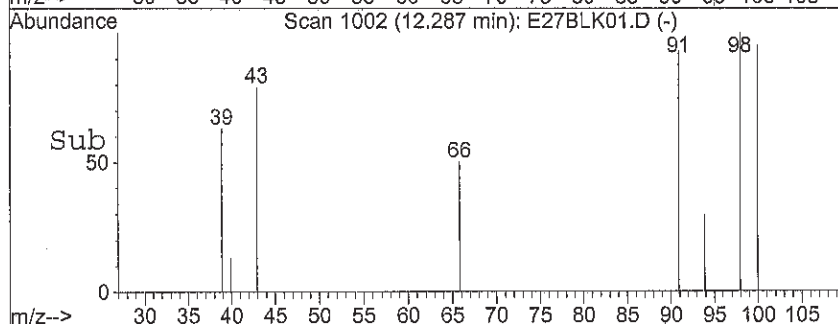
Tgt Ion: 43	Resp:	7959	
Ion Ratio	Lower	Upper	
43	100		
58	142.1	0.0	0.0#
85	0.0	0.0	0.0
100	13754.2	0.0	0.0#



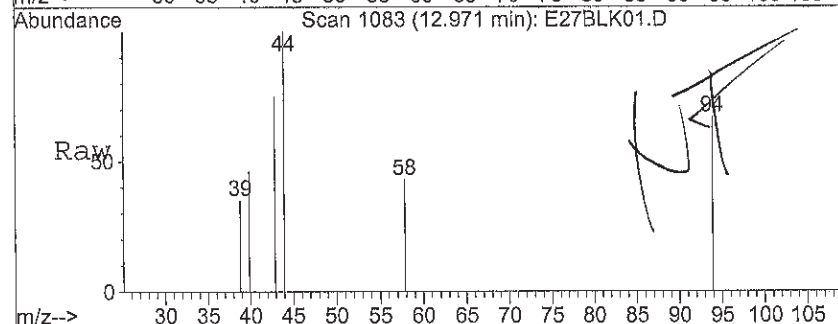
#41
Toluene
Concen: 0.09 ug/L
RT: 12.29 min Scan# 1002
Delta R.T. 0.00 min
Lab File: E27BLK01.D
Acq: 27 May 2014 9:00 am



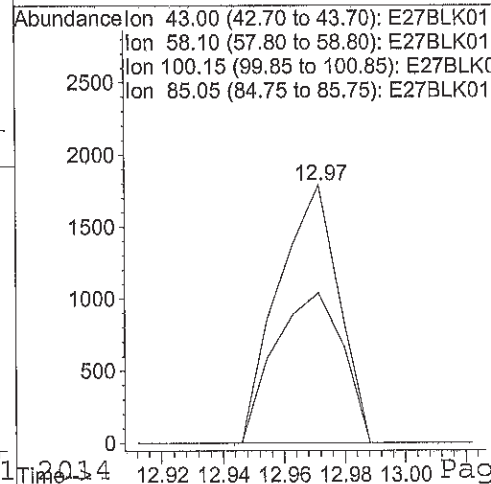
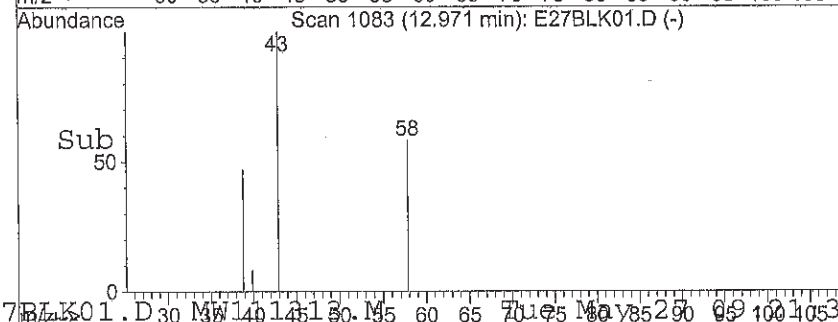
Tgt	Ion: 91	Resp:	1725
Ion	Ratio	Lower	Upper
91	100		
92	21.7	47.4	71.0#

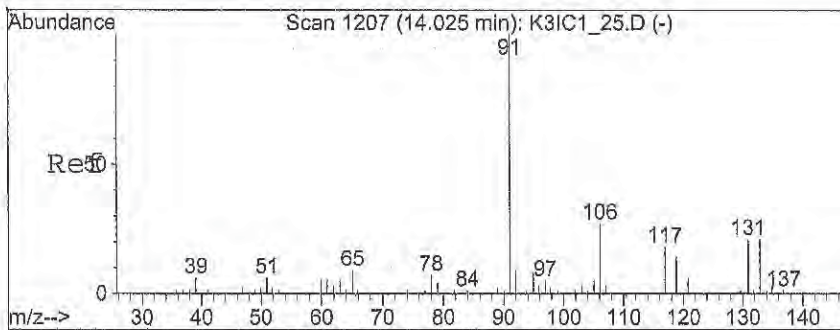


#46
2-Hexanone
Concen: 0.82 ug/L
RT: 12.97 min Scan# 1083
Delta R.T. 0.00 min
Lab File: E27BLK01.D
Acq: 27 May 2014 9:00 am



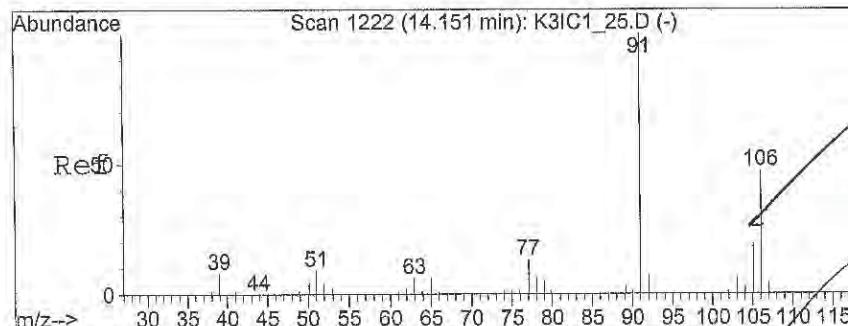
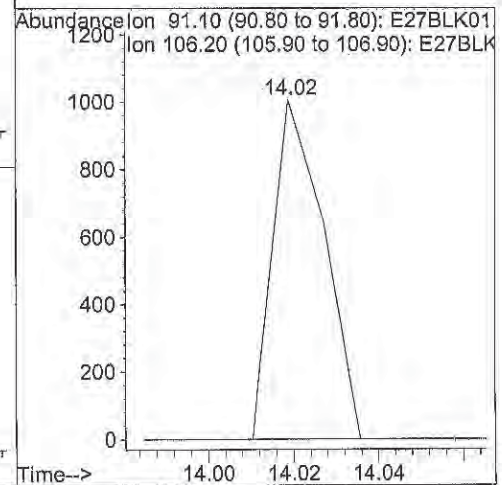
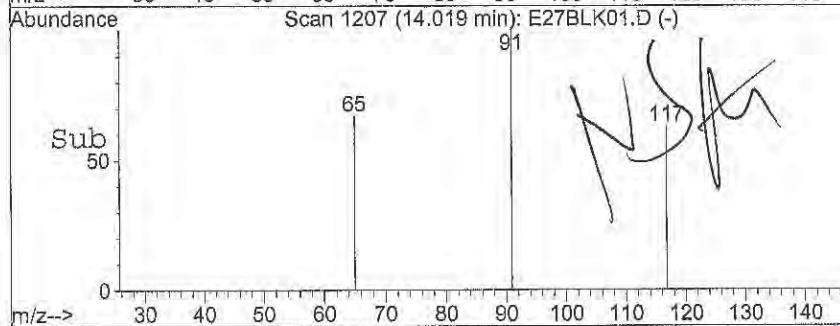
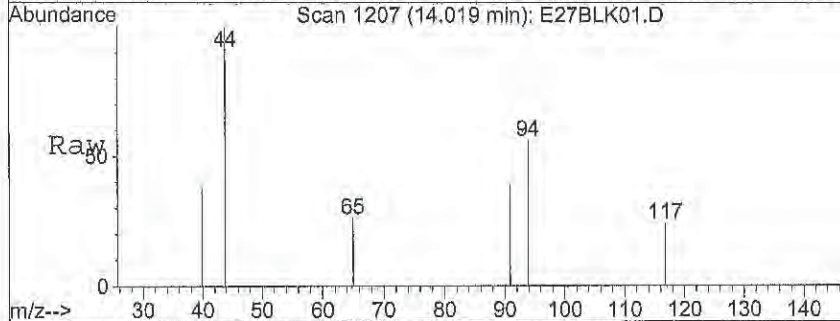
Tgt	Ion: 43	Resp:	2459
Ion	Ratio	Lower	Upper
43	100		
58	65.5	40.9	61.3#
100	0.0	5.5	8.3#
85	0.0	4.3	6.5#





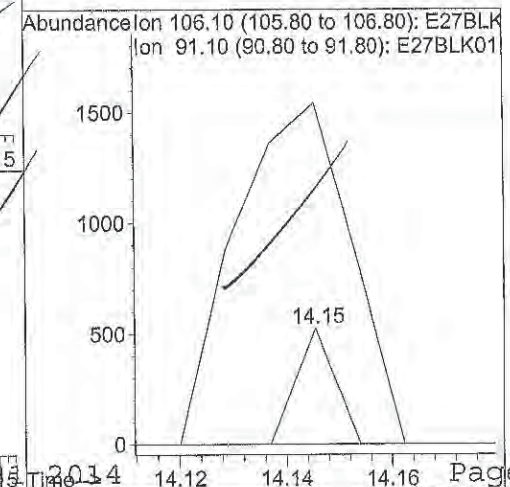
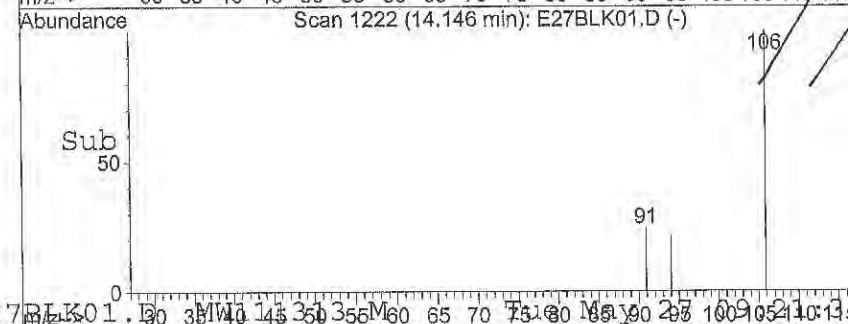
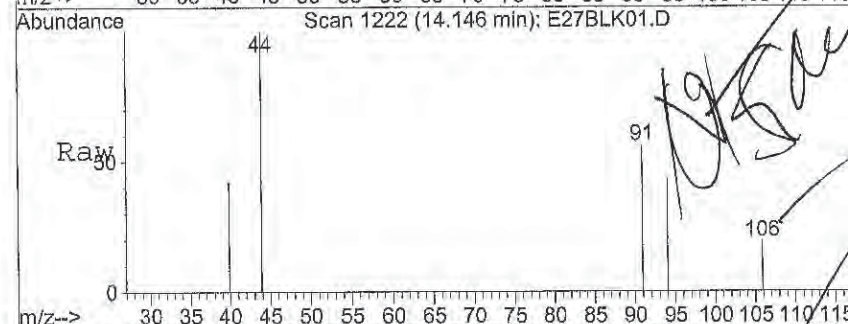
#51
Ethylbenzene
Concen: 0.04 ug/L
RT: 14.02 min Scan# 1207
Delta R.T. -0.01 min
Lab File: E27BLK01.D
Acq: 27 May 2014 9:00 am

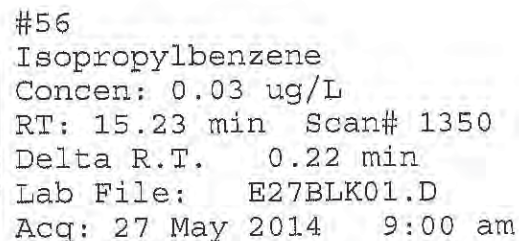
Tgt Ion: 91 Resp: 836
Ion Ratio Lower Upper
91 100
106 0.0 23.5 35.3#



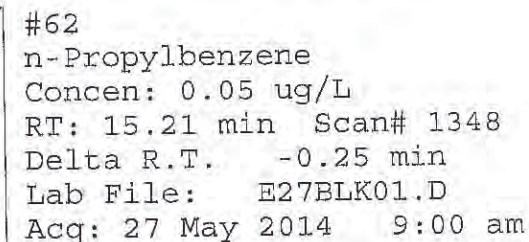
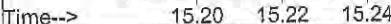
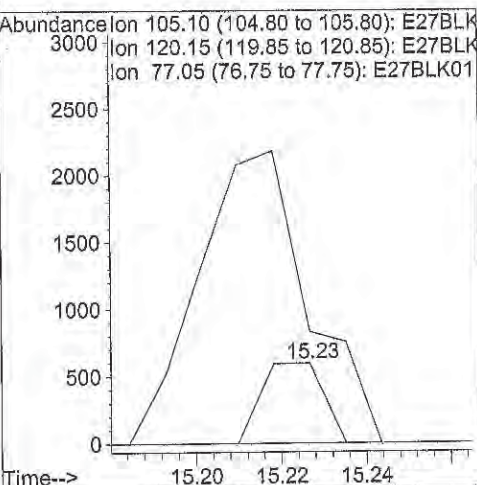
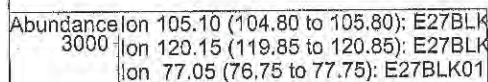
#52
m,p-Xylenes
Concen: 0.04 ug/L
RT: 14.15 min Scan# 1222
Delta R.T. -0.01 min
Lab File: E27BLK01.D
Acq: 27 May 2014 9:00 am

Tgt Ion: 106 Resp: 266
Ion Ratio Lower Upper
106 100
91 870.3 177.1 265.7#

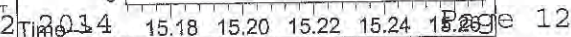
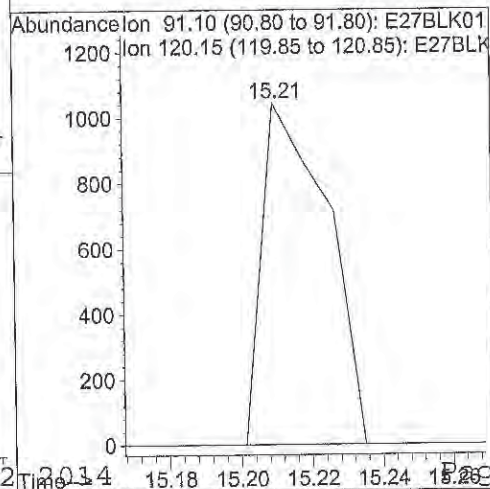
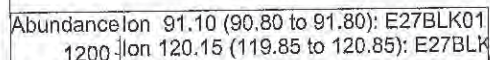


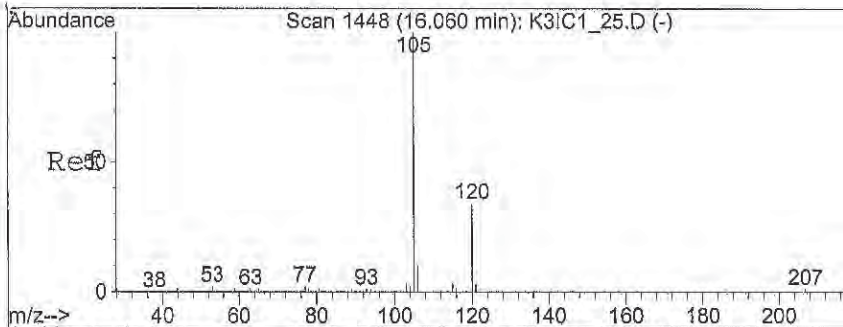


Tgt	Ion:105	Resp:	600
Ion	Ratio	Lower	Upper
105	100		
120	0.0	19.3	28.9#
77	646.7	13.1	19.7#



Tgt	Ion: 91	Resp:	1331
Ion	Ratio	Lower	Upper
91	100		
120	0.0	16.1	24.1#





#67

1,2,4-Trimethylbenzene

Concen: 0.02 ug/L

RT: 16.05 min Scan# 1448

Delta R.T. -0.01 min

Lab File: E27BLK01.D

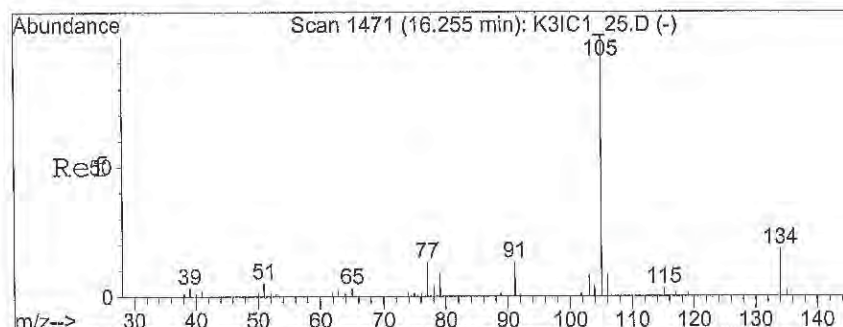
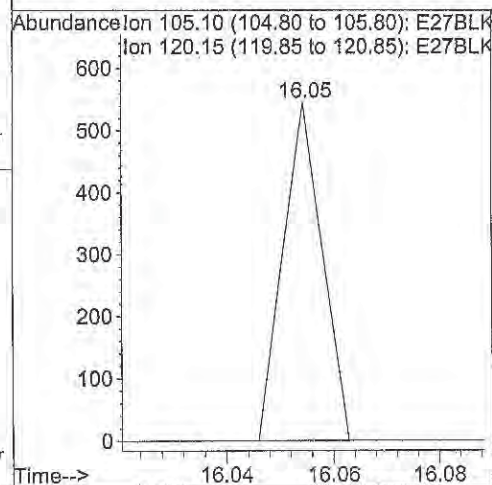
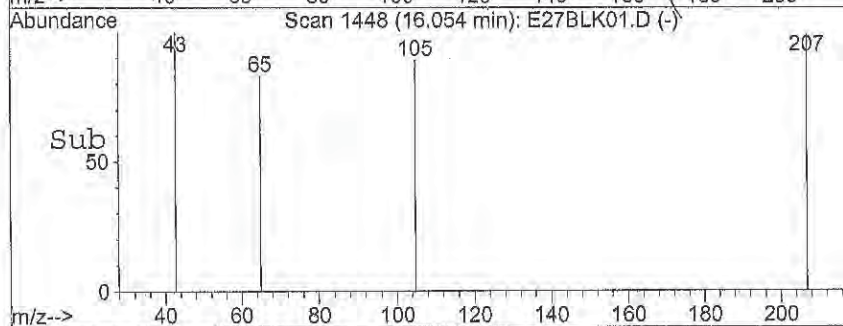
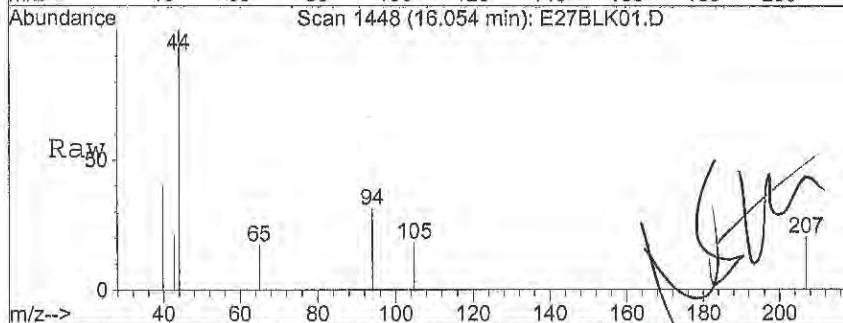
Acq: 27 May 2014 9:00 am

Tgt Ion:105 Resp: 276

Ion Ratio Lower Upper

105 100

120 0.0 33.8 50.8#



#68

sec-Butylbenzene

Concen: 0.03 ug/L

RT: 16.15 min Scan# 1459

Delta R.T. -0.11 min

Lab File: E27BLK01.D

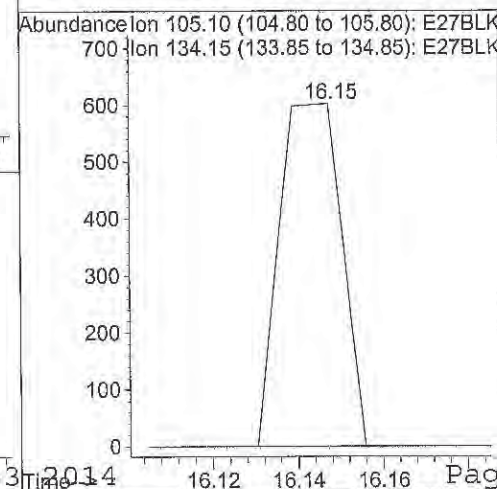
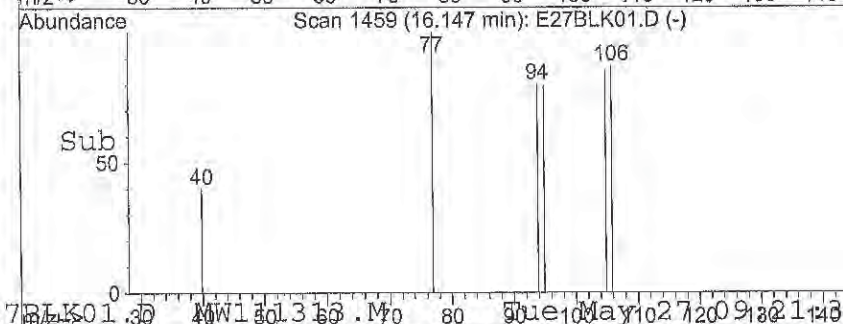
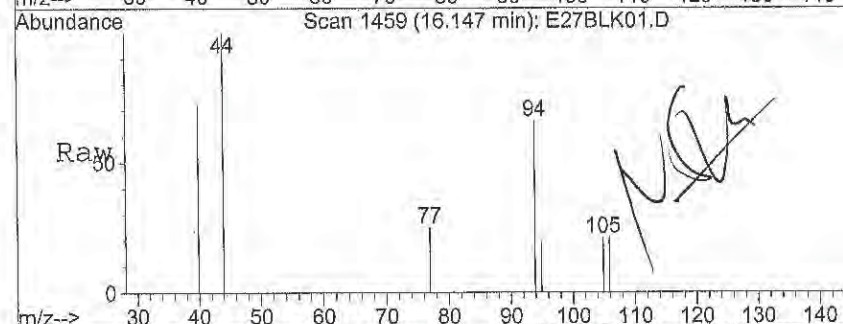
Acq: 27 May 2014 9:00 am

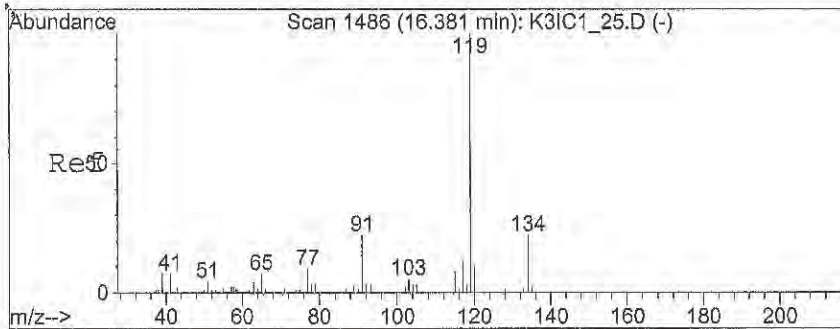
Tgt Ion:105 Resp: 608

Ion Ratio Lower Upper

105 100

134 0.0 13.0 19.6#





#69

p-Isopropyltoluene

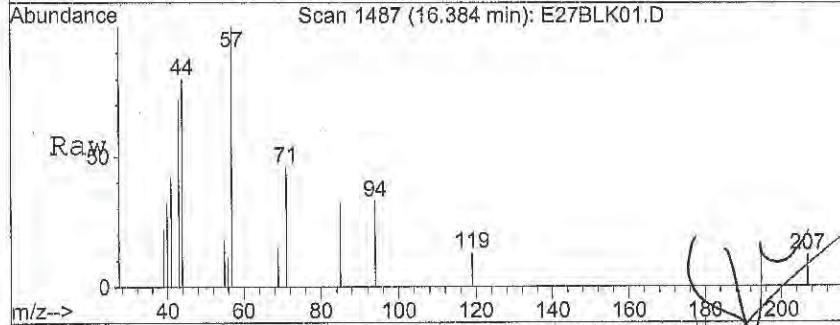
Concen: 0.02 ug/L

RT: 16.38 min Scan# 1487

Delta R.T. 0.00 min

Lab File: E27BLK01.D

Acq: 27 May 2014 9:00 am



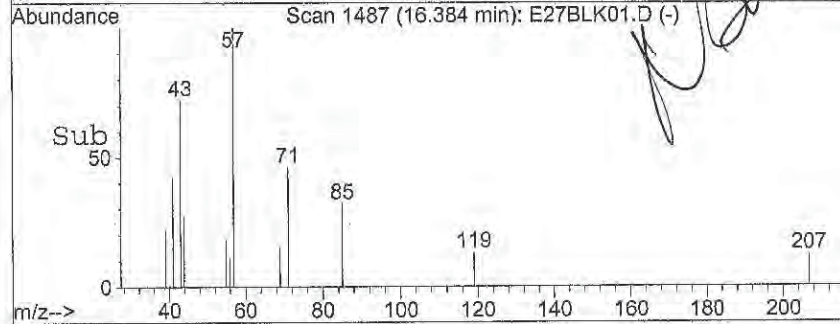
Tgt Ion:119 Resp: 319

Ion Ratio Lower Upper

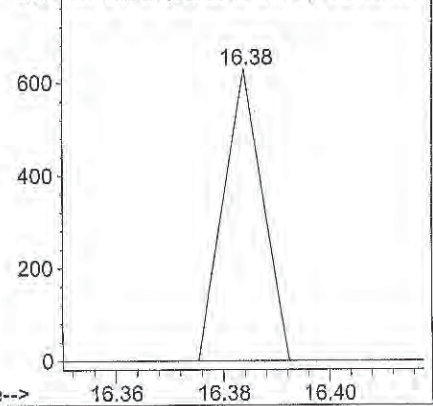
119 100

134 0.0 17.4 26.2#

91 0.0 19.6 29.4#



Abundance Ion 119.15 (118.85 to 119.85): E27BLK
Ion 134.15 (133.85 to 134.85): E27BLK
Ion 91.10 (90.80 to 91.80): E27BLK01



Data File : C:\HPCHEM\1\DATA\052714L3\E27BLK01.D

Vial: 11

Acq On : 27 May 2014 9:00 am

Operator: DN

Sample : 34E2701-BLK1

Inst : GC/MS Ins

Misc : 100cc AMBIENT AIR/H2O

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 9:27 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1865195	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.91	117	1375580	12.50	ug/L	-0.02
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	703693	12.50	ug/L	-0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	509925	10.51	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	84.08%
3) Chloroform-d (SU6)	9.18	84	816897	11.74	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	93.92%
4) Methylene Chloride-d2 (SU5)	7.07	86	452369	11.12	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	88.96%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	480809	14.50	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	116.00%
6) Benzene-d6 (SU7)	9.92	84	1592976	10.88	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	87.04%
8) Toluene-d8 (SU3)	12.20	98	1606996	12.31	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	98.48%
9) 4-Bromofluorobenzene (SU4)	15.22	95	718155	13.33	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	106.64%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E27BLK01.D SS072713.M

Tue May 27 09:27:03 2014

Page 1

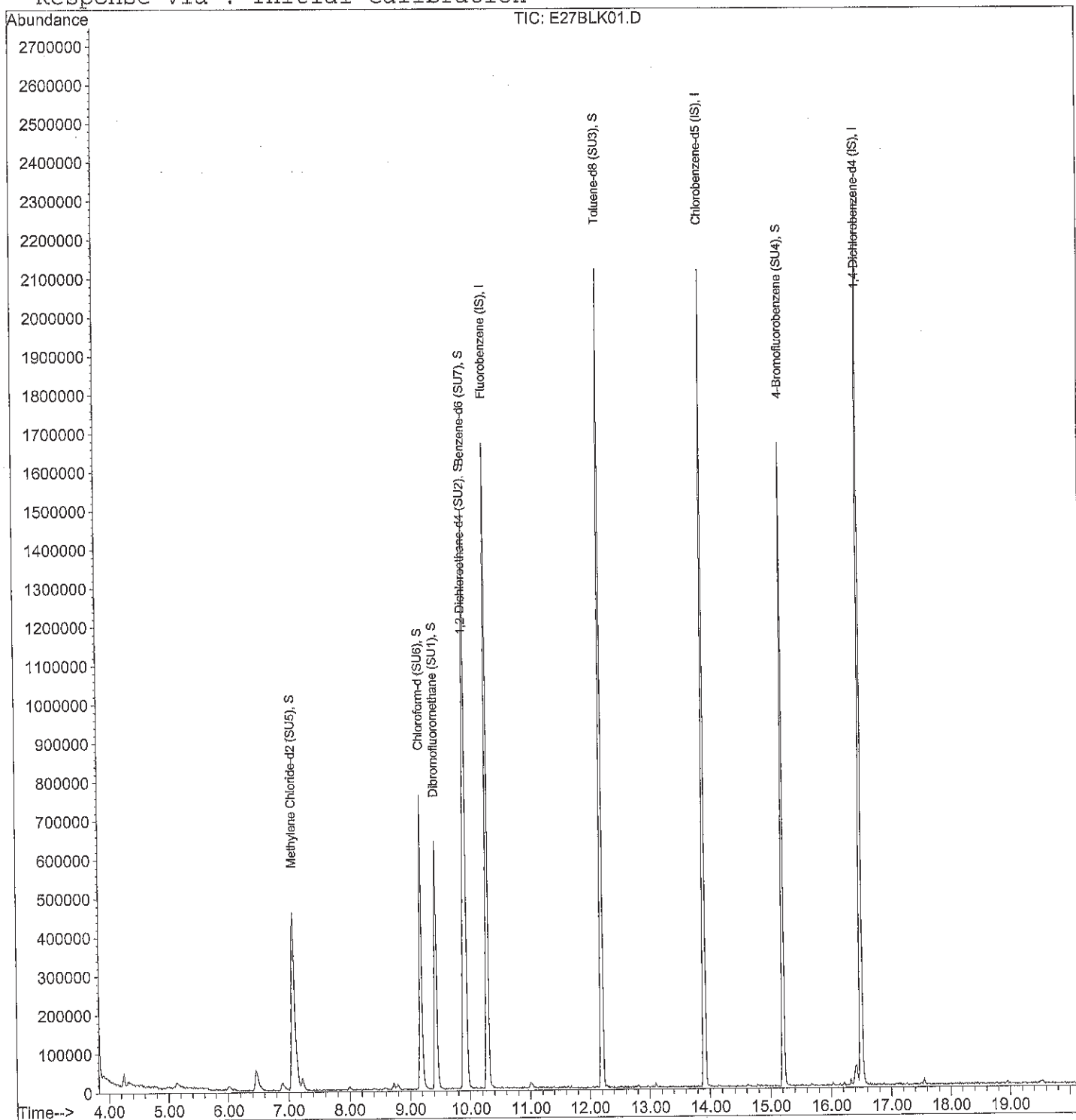
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E27BLK01.D
 Acq On : 27 May 2014 9:00 am
 Sample : 34E2701-BLK1
 Misc : 100cc AMBIENT AIR/H2O
 MS Integration Params: rteint.p
 Quant Time: May 27 9:27 19114

Vial: 11
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



**RAW DATA FOR ANALYZED SAMPLES INCLUDING
CHROMATOGRAMS, QUANTITATION REPORTS AND
SPECTRA**

Data File : C:\HPCHEM\1\DATA\052714L3\E2700001.D
 Acq On : 27 May 2014 9:29 am
 Sample : 3E42701-01
 Misc : 100cc Equipment Blank
 MS Integration Params: rteint.p
 Quant Time: May 27 9:55 19114

Vial: 11
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1669603	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1275583	12.50	ug/L	-0.01
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	659835	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	469086	11.26	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	90.08%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	473095	11.95	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.60%
39) Toluene-d8 (SU3)	12.21	98	1415096	11.89	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.12%
58) 4-Bromofluorobenzene (SU4)	15.21	95	684561	13.12	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	104.96%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	4.40	50	4829	0.50	ug/L	61
6) Bromomethane	5.14	96	3104	-0.09	ug/L	98
7) Chloroethane	5.15	64	2088	2.19	ug/L	99
11) Acetone	6.46	58	24206	42.99	ug/L	82
12) (IPA) Leak Check Compound	6.50	45	49904	248.74	ug/L	82
14) Methylene Chloride	7.08	84	7521	1.64	ug/L	1
15) (TBA) tert-Butanol	6.90	59	3155	11.08	ug/L	77
20) 2,2-Dichloropropane	8.93	77	265	0.04	ug/L	36
21) (MEK) 2-Butanone	8.79	72	1596	3.40	ug/L	1
24) Chloroform	9.22	83	1182	0.14	ug/L	18
31) Benzene	9.93	78	11816	0.75	ug/L	74
32) 1,2-Dichloroethane	9.93	62	7140	1.28	ug/L	1
34) 1,2-Dichloropropane	11.02	63	353	0.09	ug/L	34
40) (MIBK) 4-Methyl-2-Pentanone	12.13	43	256	0.10	ug/L	100
41) Toluene	12.29	91	1407	0.08	ug/L	72
46) 2-Hexanone	12.97	43	2260	0.81	ug/L	70
51) Ethylbenzene	14.03	91	517	0.03	ug/L	45
54) Styrene	14.63	104	1203	-0.76	ug/L	39
56) Isopropylbenzene	15.21	105	1284	0.07	ug/L	1
62) n-Propylbenzene	15.21	91	2236	0.08	ug/L	56
67) 1,2,4-Trimethylbenzene	16.15	105	383	0.02	ug/L	33
68) sec-Butylbenzene	16.15	105	383	0.02	ug/L	62

(#) = qualifier out of range (m) = manual integration
 E2700001.D MW111313.M Tue May 27 09:55:34 2014

Data File : C:\HPCHEM\1\DATA\052714L3\E2700001.D

Vial: 11

Acq On : 27 May 2014 9:29 am

Operator: DN

Sample : 3E42701-01

Inst : GC/MS Ins

Misc : 100cc Equipment Blank

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 9:55 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
69) p-Isopropyltoluene	16.38	119	415	0.02	ug/L	52

(#) = qualifier out of range (m) = manual integration

E2700001.D MW111313.M

Tue May 27 09:55:35 2014

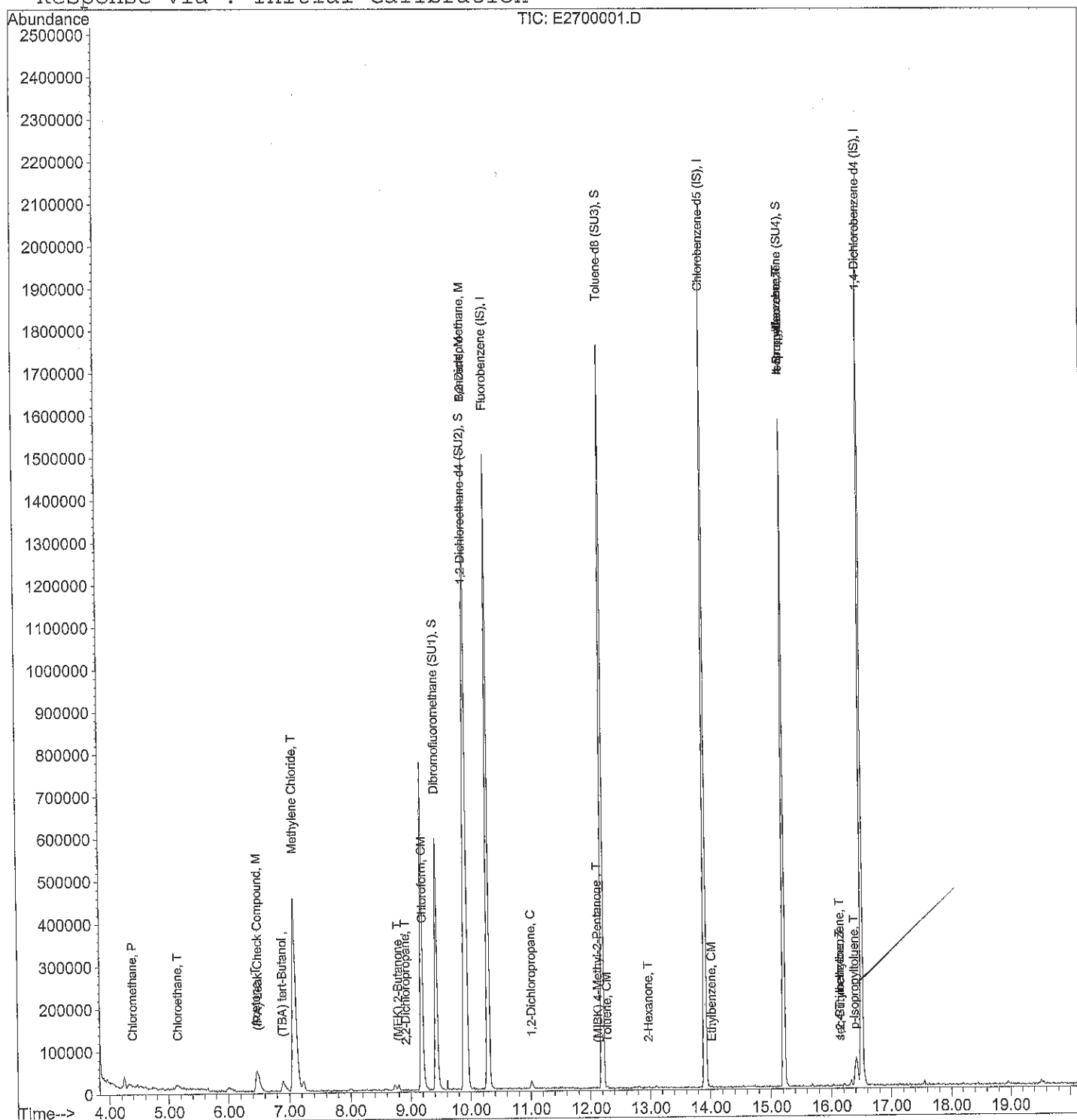
Page 2

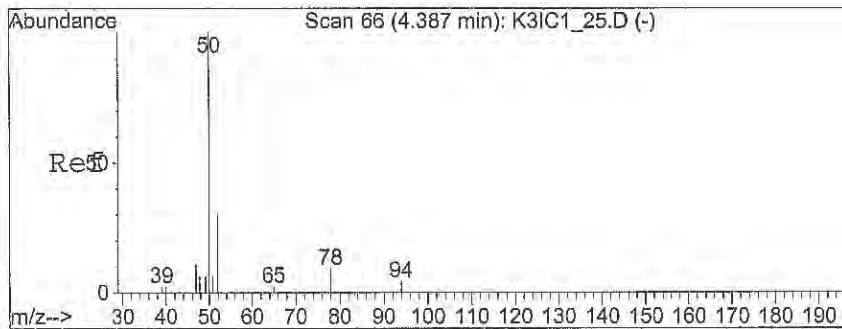
Quantitation Report

Vial: 11
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

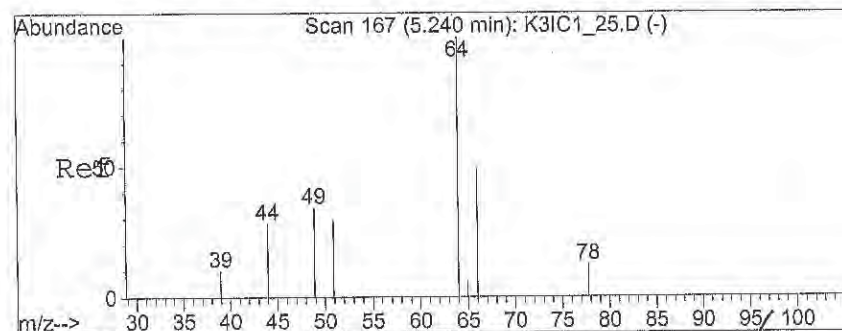
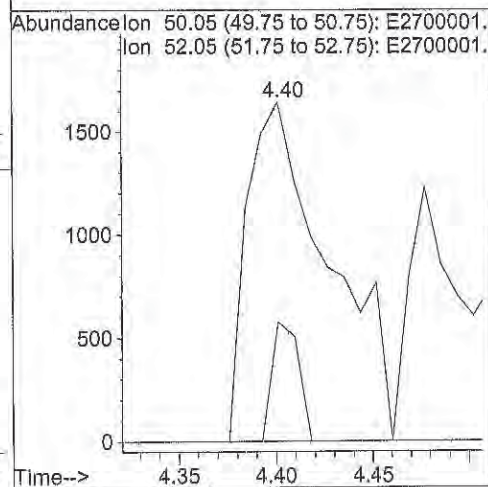
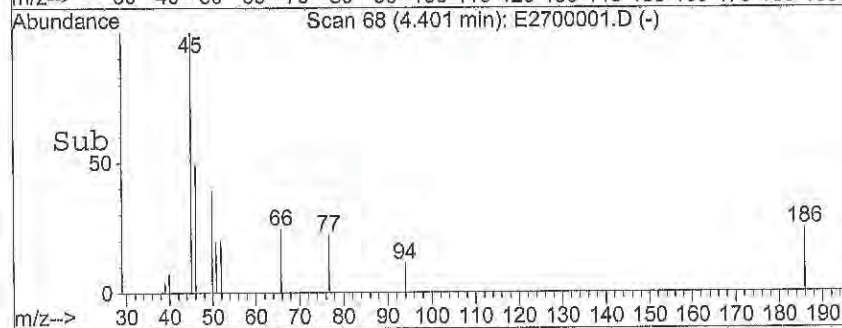
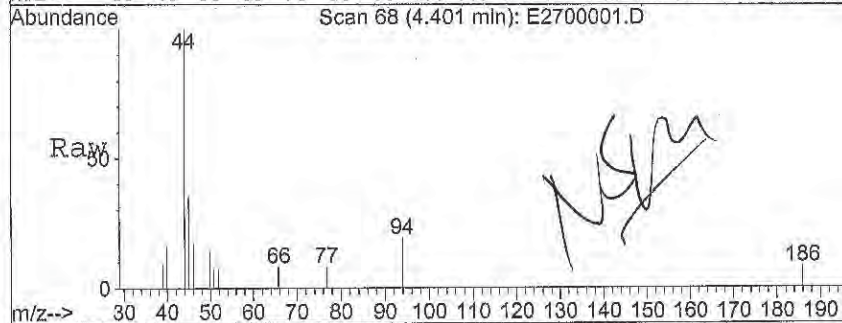
```
Method       : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title        : 8260B      GC/MS #3      ICAL 11/13/13   DN
Last Update   : Wed Nov 13 19:38:32 2013
Response via  : Initial Calibration
```





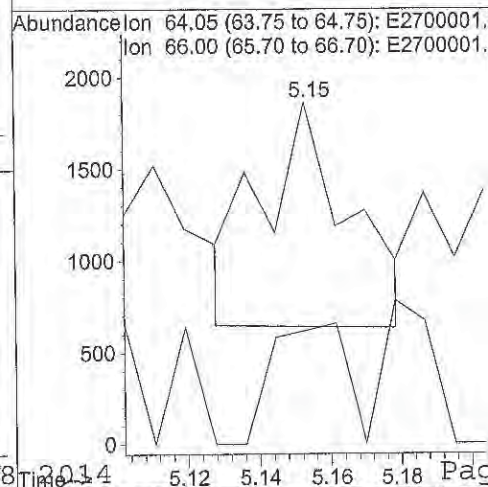
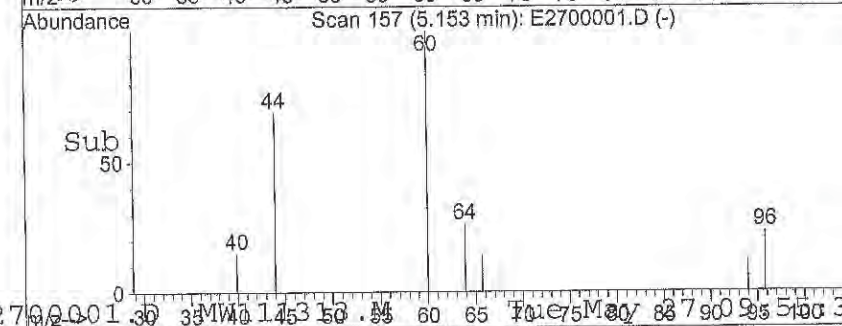
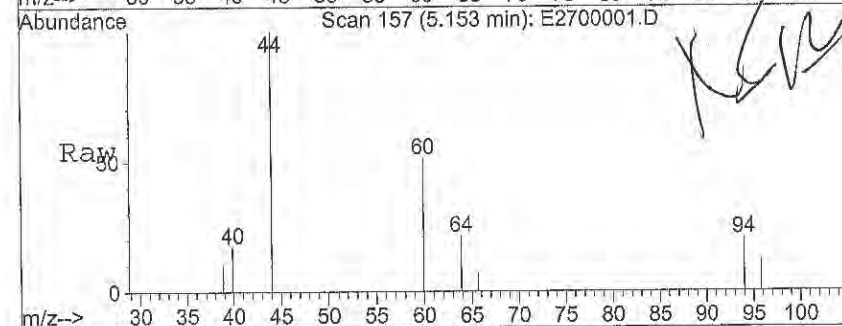
#4
Chloromethane
Concen: 0.50 ug/L
RT: 4.40 min Scan# 68
Delta R.T. 0.01 min
Lab File: E2700001.D
Acq: 27 May 2014 9:29 am

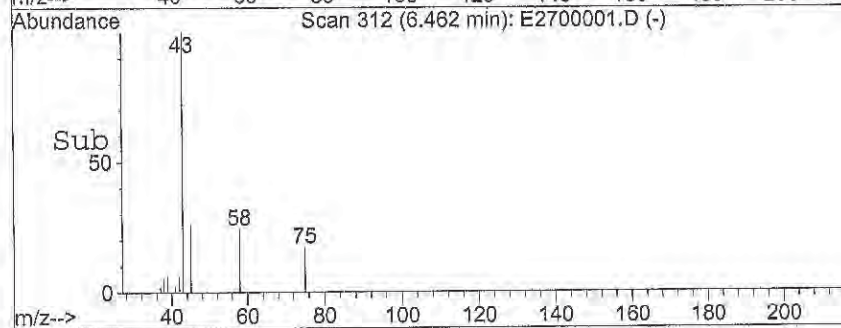
Tgt Ion: 50 Resp: 4829
Ion Ratio Lower Upper
50 100
52 11.3 26.9 40.3#



#7
Chloroethane
Concen: 2.19 ug/L
RT: 5.15 min Scan# 157
Delta R.T. -0.09 min
Lab File: E2700001.D
Acq: 27 May 2014 9:29 am

Tgt Ion: 64 Resp: 2088
Ion Ratio Lower Upper
64 100
66 45.1 35.4 53.0





#11

Acetone

Concen: 42.99 ug/L

RT: 6.46 min Scan# 312

Delta R.T. 0.01 min

Lab File: E2700001.D

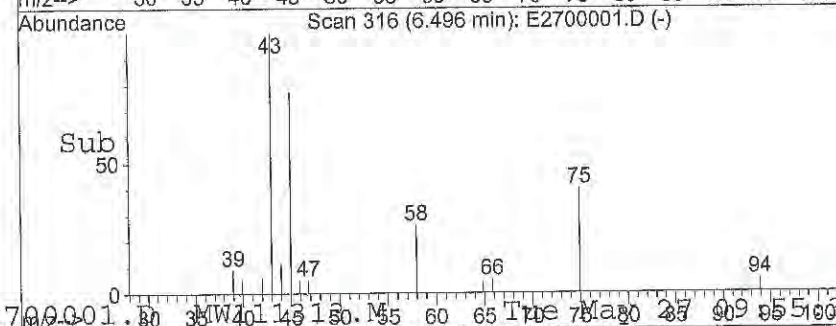
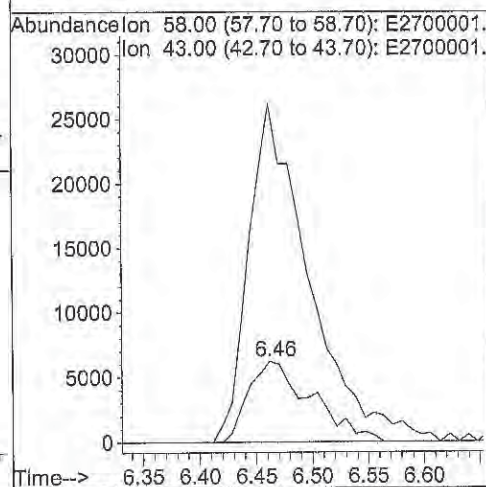
Acq: 27 May 2014 9:29 am

Tgt Ion: 58 Resp: 24206

Ion	Ratio	Lower	Upper
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58 100

43 404.5 360.9 541.3



#12

(IPA) Leak Check Compound

Concen: 248.74 ug/L

RT: 6.50 min Scan# 316

Delta R.T. -0.04 min

Lab File: E2700001.D

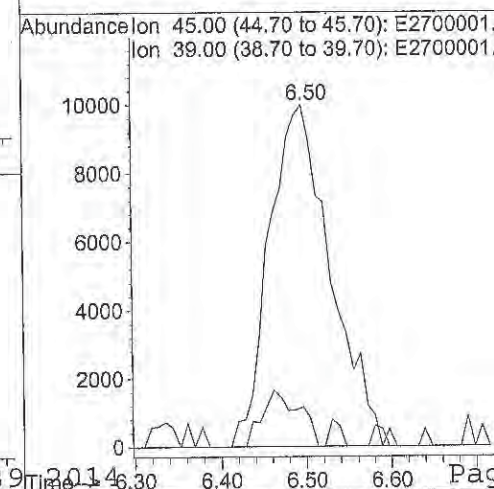
Acq: 27 May 2014 9:29 am

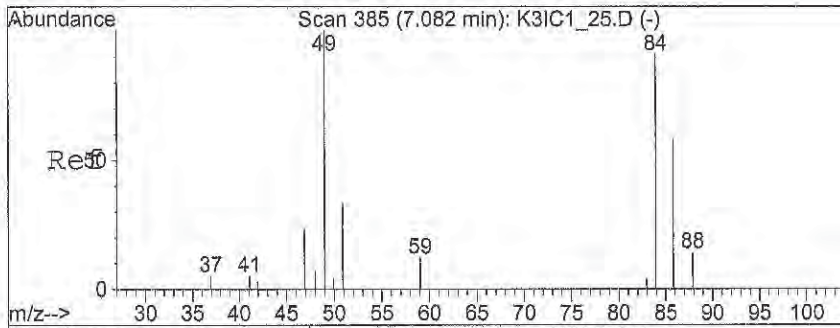
Tgt Ion: 45 Resp: 49904

Ion	Ratio	Lower	Upper
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45 100

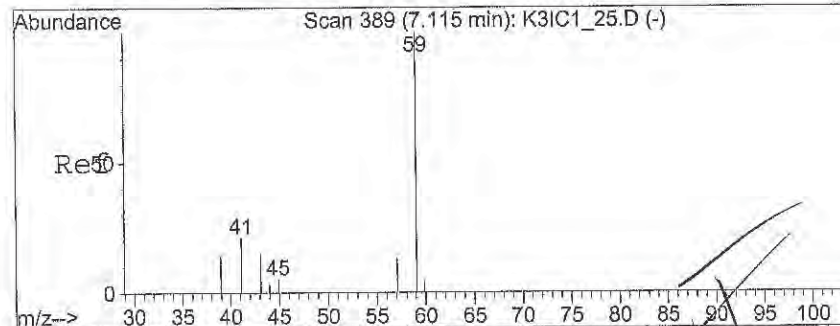
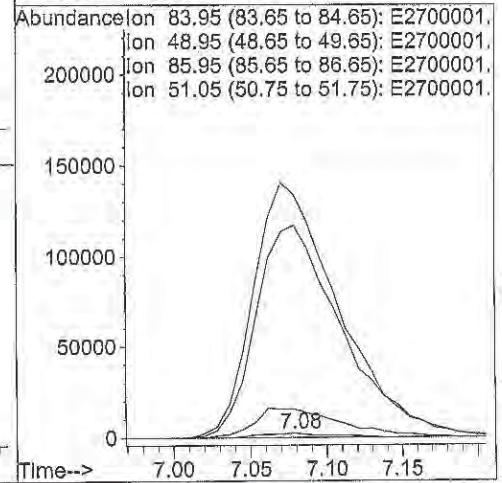
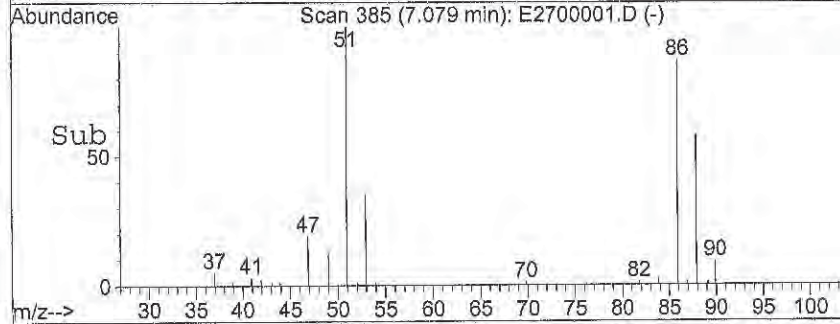
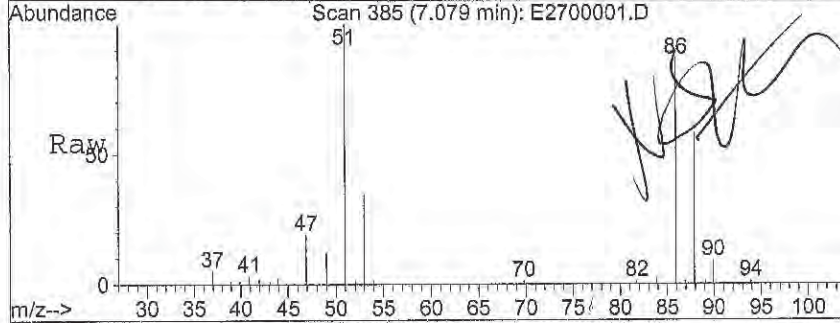
39 0.0 4.9 7.3#





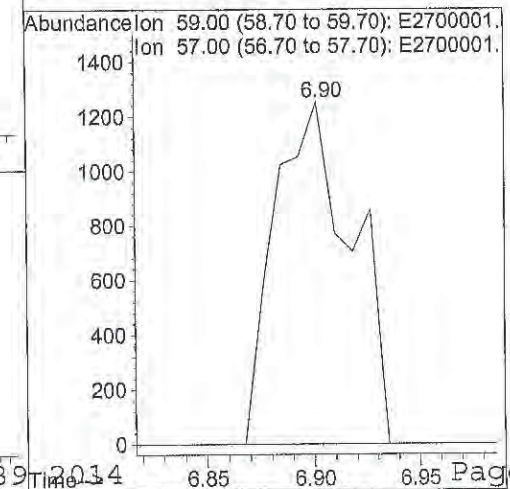
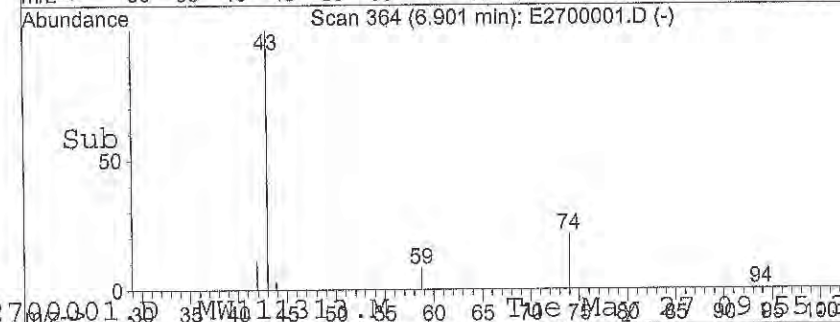
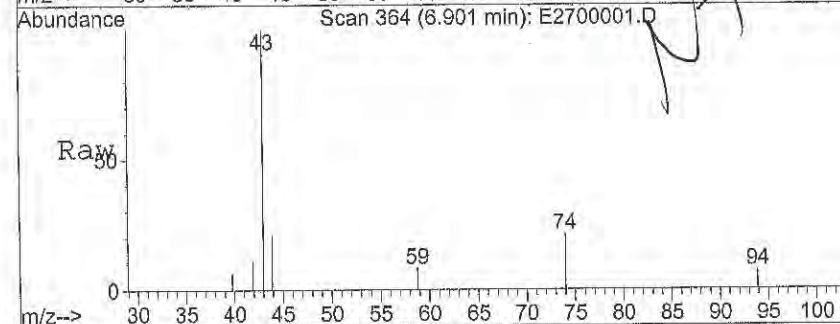
#14
Methylene Chloride
Concen: 1.64 ug/L
RT: 7.08 min Scan# 385
Delta R.T. -0.00 min
Lab File: E2700001.D
Acq: 27 May 2014 9:29 am

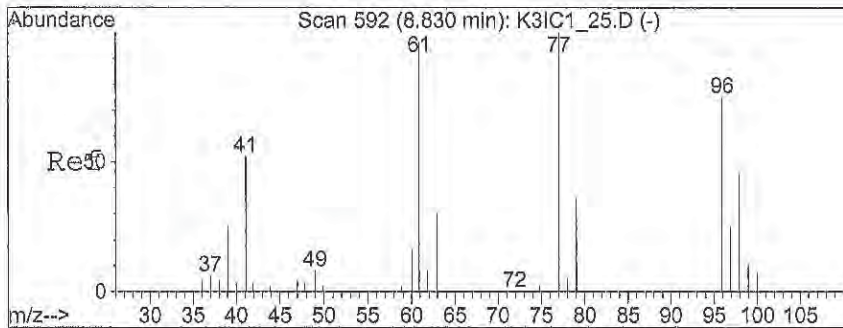
Tgt Ion: 84 Resp: 7521
Ion Ratio Lower Upper
84 100
49 839.0 89.8 134.6#
86 6110.1 51.1 76.7#
51 7296.1 28.5 42.7#



#15
(TBA) tert-Butanol
Concen: 11.08 ug/L
RT: 6.90 min Scan# 364
Delta R.T. -0.21 min
Lab File: E2700001.D
Acq: 27 May 2014 9:29 am

Tgt Ion: 59 Resp: 3155
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#





#20

2,2-Dichloropropane

Concen: 0.04 ug/L

RT: 8.93 min Scan# 604

Delta R.T. 0.10 min

Lab File: E2700001.D

Acq: 27 May 2014 9:29 am

Tgt Ion: 77 Resp: 265

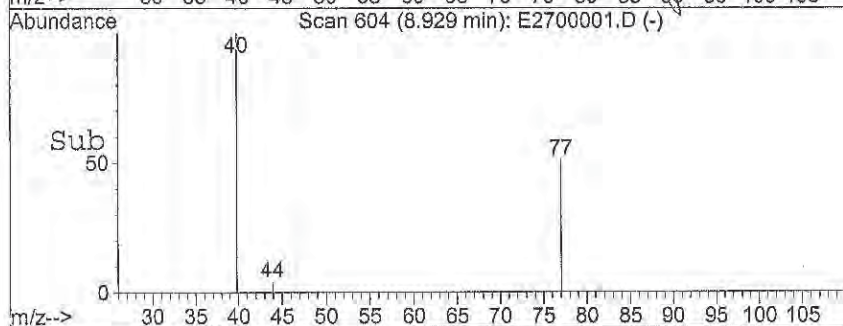
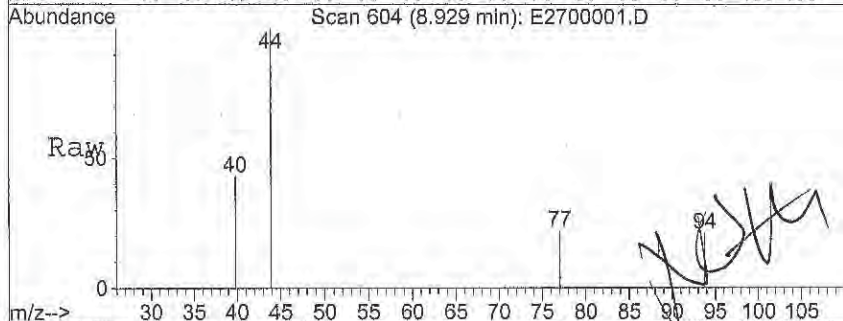
Ion Ratio Lower Upper

77 100

79 0.0 26.6 40.0#

97 0.0 18.9 28.3#

41 0.0 42.6 64.0#



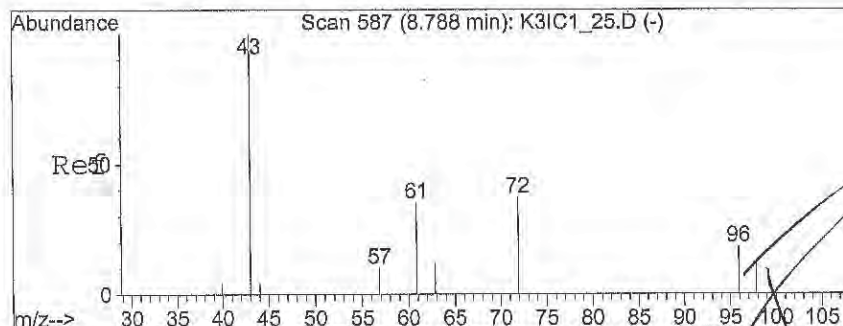
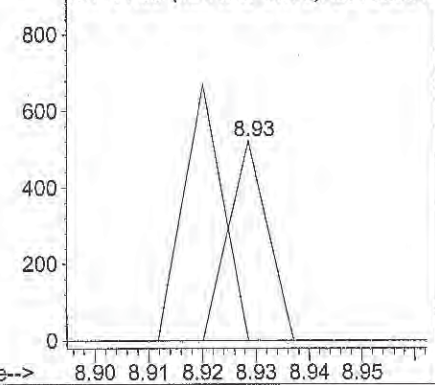
Abundance

Ion 77.05 (76.75 to 77.75): E2700001.

Ion 79.00 (78.70 to 79.70): E2700001.

Ion 96.95 (96.65 to 97.65): E2700001.

Ion 41.05 (40.75 to 41.75): E2700001.



#21

(MEK) 2-Butanone

Concen: 3.40 ug/L

RT: 8.79 min Scan# 587

Delta R.T. -0.00 min

Lab File: E2700001.D

Acq: 27 May 2014 9:29 am

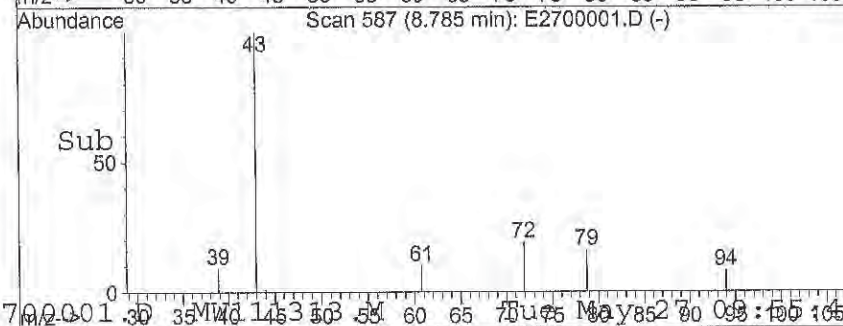
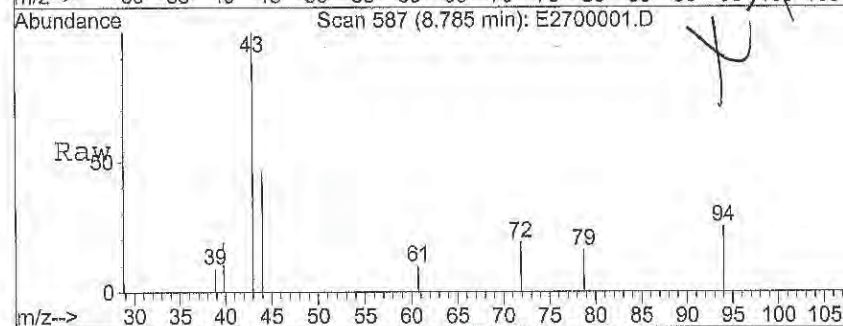
Tgt Ion: 72 Resp: 1596

Ion Ratio Lower Upper

72 100

57 19.4 17.5 26.3

43 1165.0 314.2 471.2#

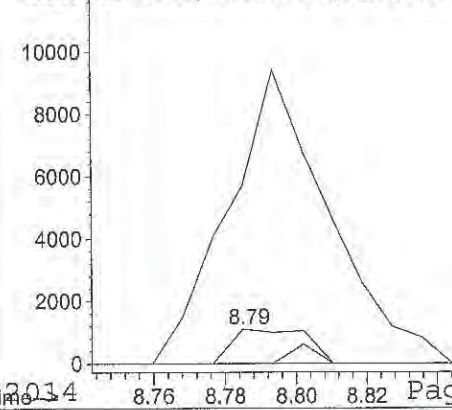


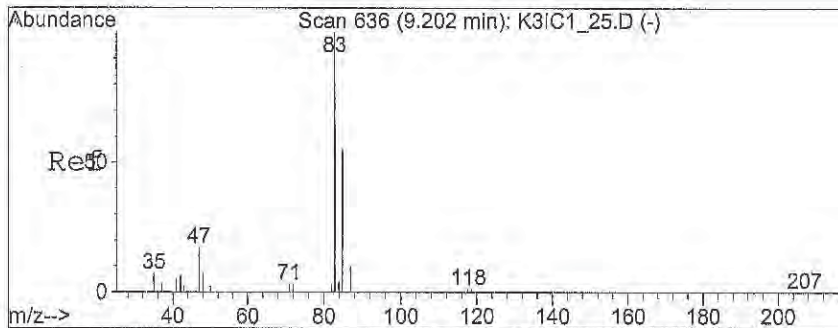
Abundance

Ion 72.00 (71.70 to 72.70): E2700001.

Ion 57.10 (56.80 to 57.80): E2700001.

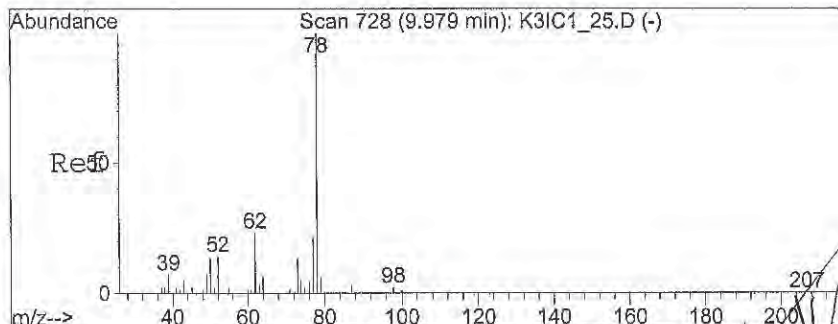
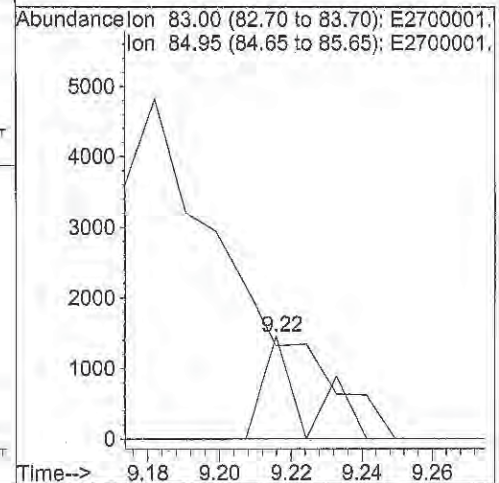
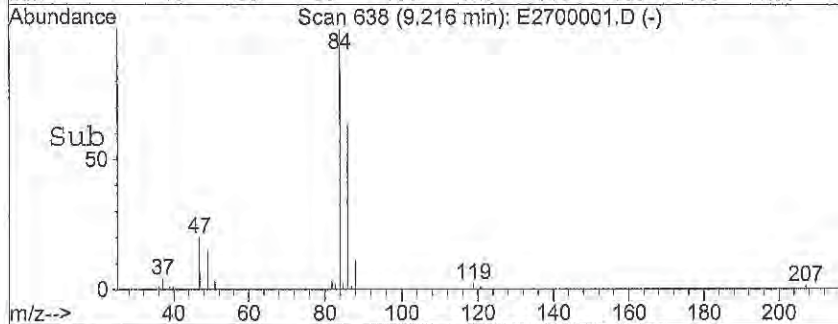
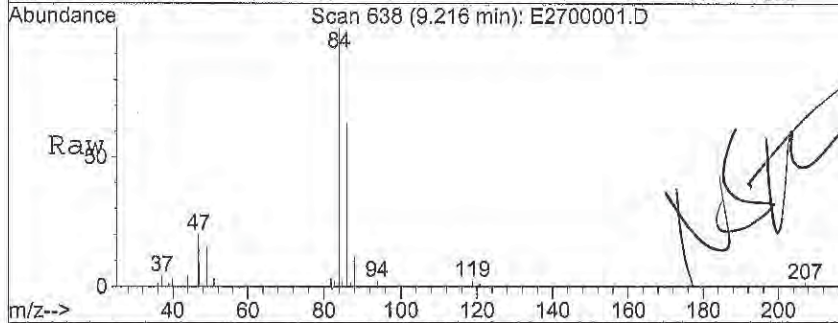
Ion 43.00 (42.70 to 43.70): E2700001.





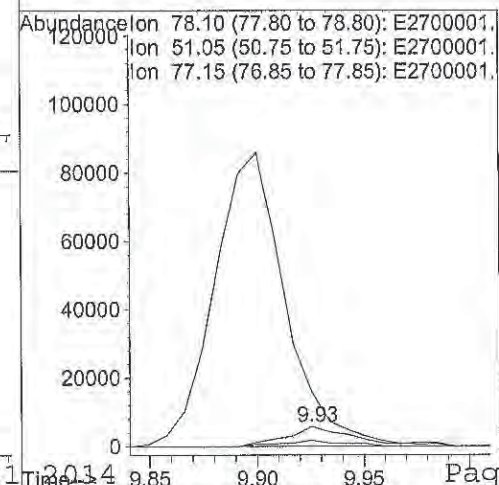
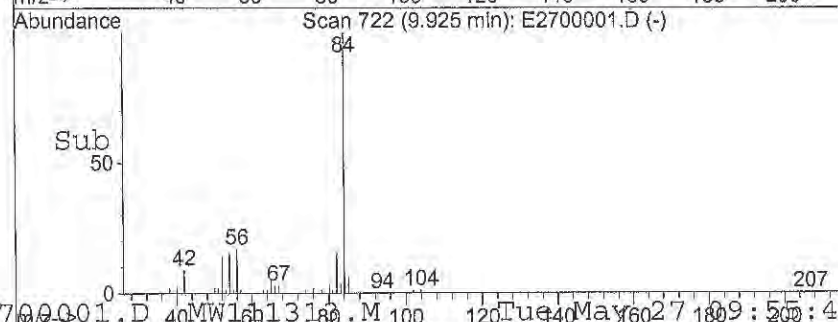
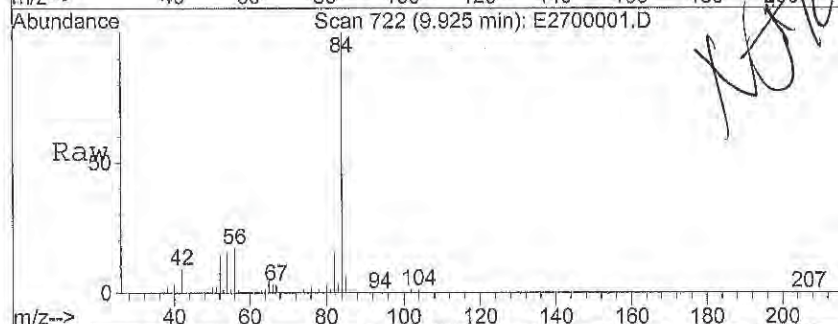
#24
Chloroform
Concen: 0.14 ug/L
RT: 9.22 min Scan# 638
Delta R.T. 0.01 min
Lab File: E2700001.D
Acq: 27 May 2014 9:29 am

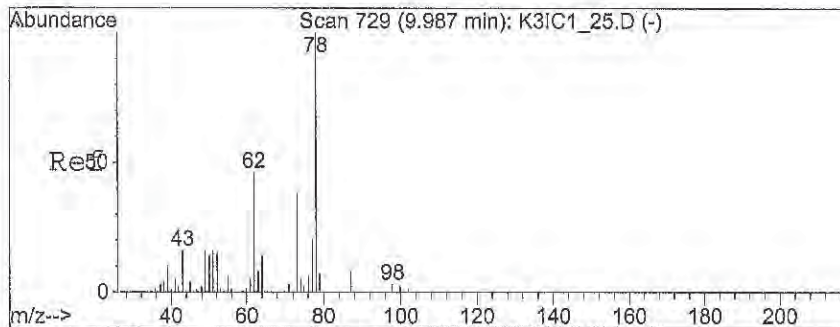
Tgt Ion: 83 Resp: 1182
Ion Ratio Lower Upper
83 100
85 0.0 51.8 77.6#



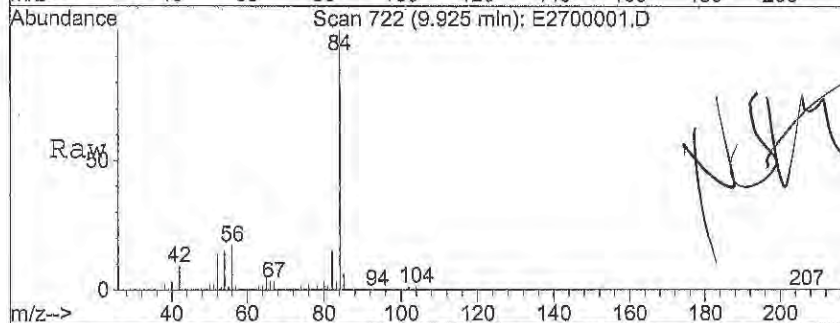
#31
Benzene
Concen: 0.75 ug/L
RT: 9.93 min Scan# 722
Delta R.T. -0.05 min
Lab File: E2700001.D
Acq: 27 May 2014 9:29 am

Tgt Ion: 78 Resp: 11816
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 26.9 16.6 24.8#

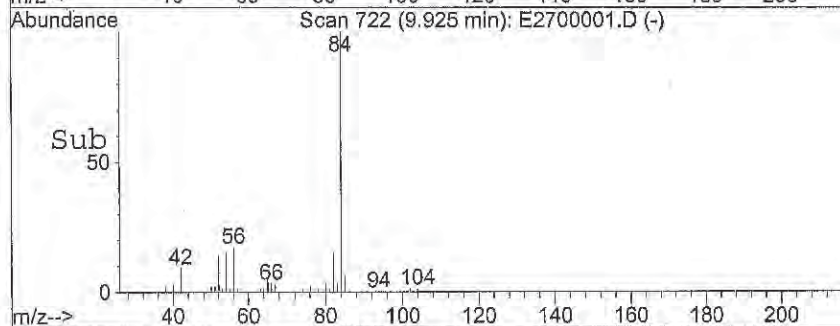




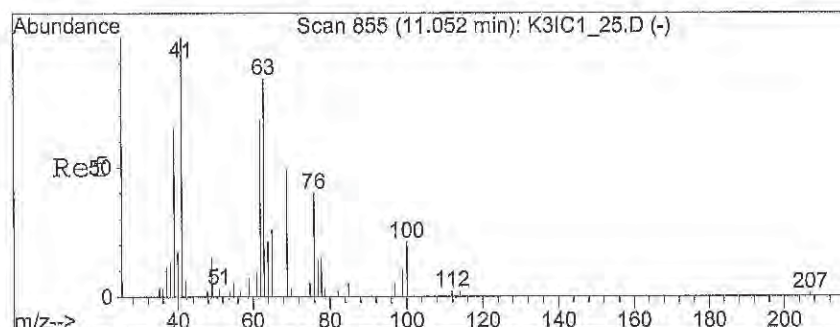
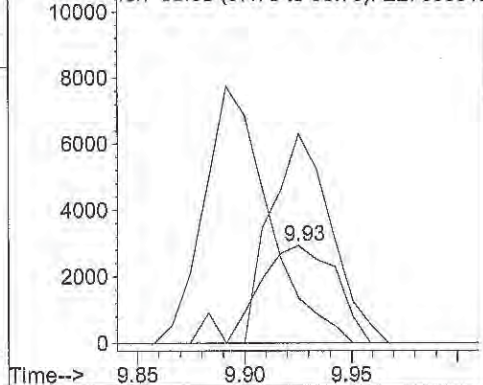
#32
1,2-Dichloroethane
Concen: 1.28 ug/L
RT: 9.93 min Scan# 722
Delta R.T. -0.06 min
Lab File: E2700001.D
Acq: 27 May 2014 9:29 am



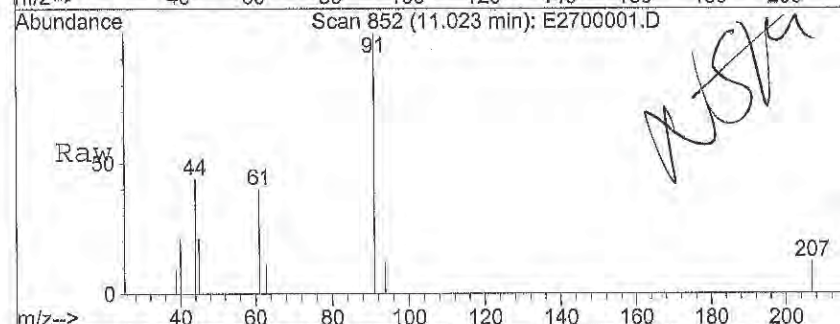
Tgt Ion: 62 Resp: 7140
Ion Ratio Lower Upper
62 100
64 180.2 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#



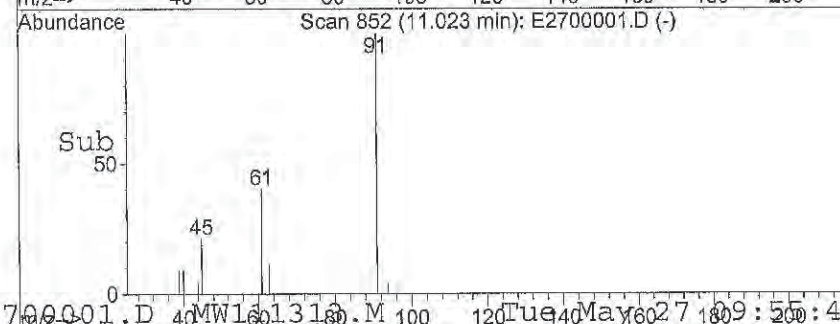
Abundance Ion 62.05 (61.75 to 62.75): E2700001.
12000 Ion 64.05 (63.75 to 64.75): E2700001.
Ion 49.00 (48.70 to 49.70): E2700001.
Ion 98.05 (97.75 to 98.75): E2700001.



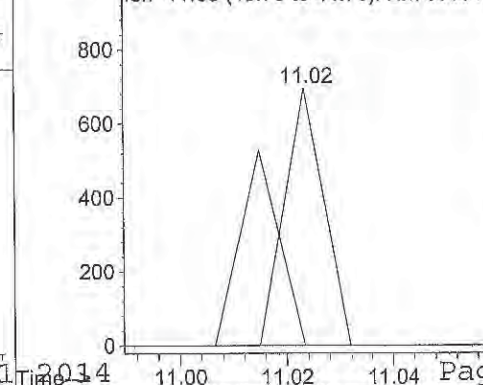
#34
1,2-Dichloropropane
Concen: 0.09 ug/L
RT: 11.02 min Scan# 852
Delta R.T. -0.03 min
Lab File: E2700001.D
Acq: 27 May 2014 9:29 am

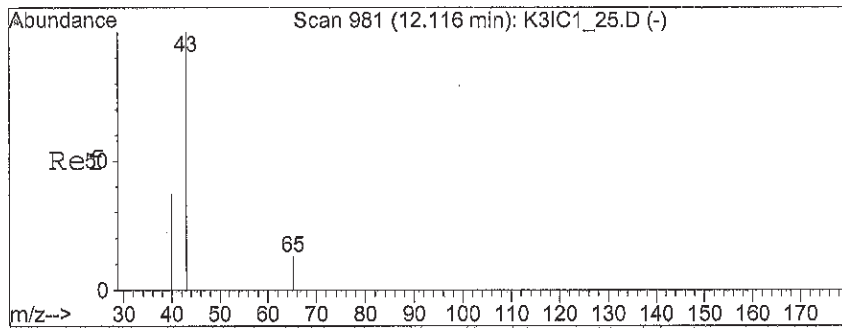


Tgt Ion: 63 Resp: 353
Ion Ratio Lower Upper
63 100
62 0.0 67.4 101.2#
76 0.0 40.3 60.5#
41 75.9 103.0 154.6#



Abundance Ion 63.05 (62.75 to 63.75): E2700001.
Ion 62.05 (61.75 to 62.75): E2700001.
Ion 76.05 (75.75 to 76.75): E2700001.
Ion 41.05 (40.75 to 41.75): E2700001.

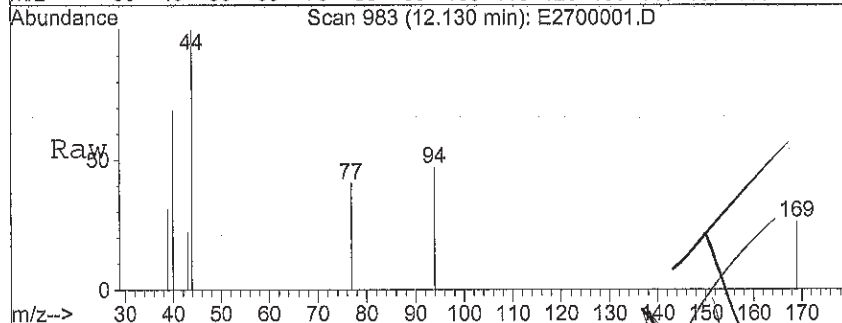




#40
 (MIBK) 4-Methyl-2-Pentanone
 Concen: 0.10 ug/L
 RT: 12.13 min Scan# 983
 Delta R.T. 0.01 min
 Lab File: E2700001.D
 Acq: 27 May 2014 9:29 am

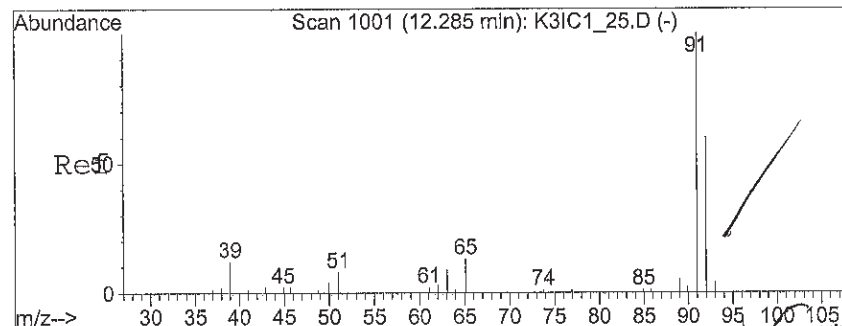
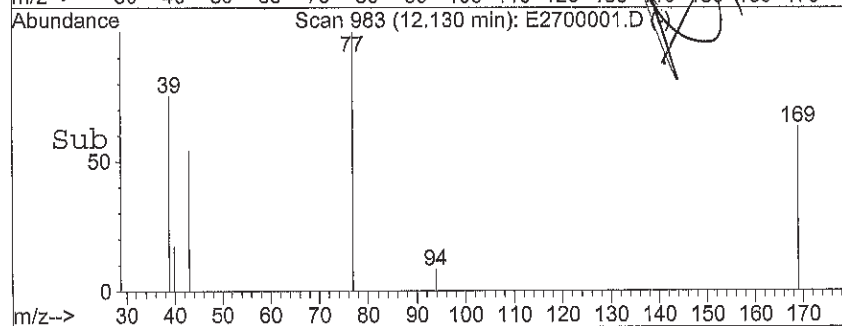
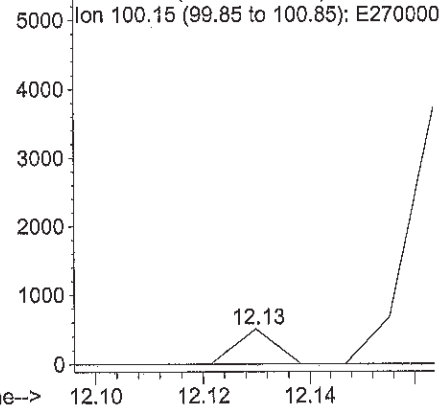
Tgt Ion: 43 Resp: 256

Ion	Ratio	Lower	Upper
43	100		
58	0.0	0.0	0.0
85	0.0	0.0	0.0
100	0.0	0.0	0.0



Abundance

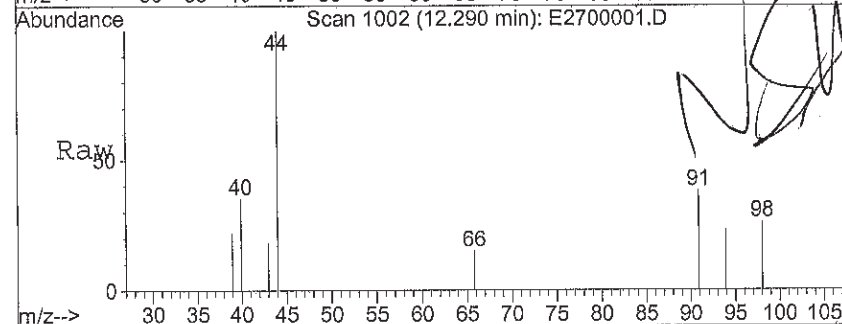
Ion 43.00 (42.70 to 43.70): E2700001.
 Ion 58.10 (57.80 to 58.80): E2700001.
 Ion 85.05 (84.75 to 85.75): E2700001.
 Ion 100.15 (99.85 to 100.85): E2700001.



#41
 Toluene
 Concen: 0.08 ug/L
 RT: 12.29 min Scan# 1002
 Delta R.T. 0.01 min
 Lab File: E2700001.D
 Acq: 27 May 2014 9:29 am

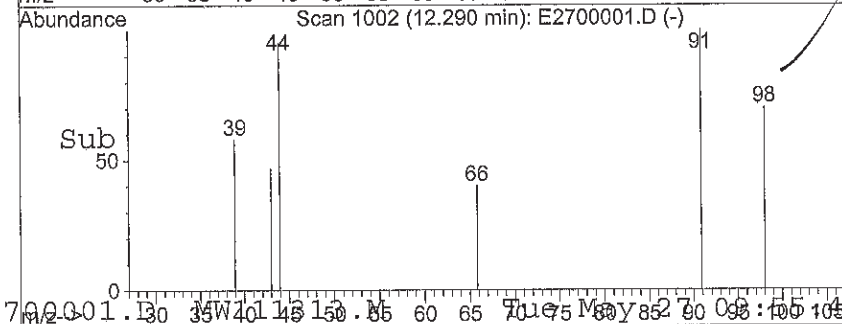
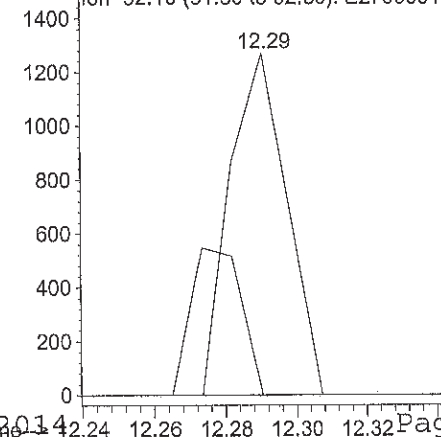
Tgt Ion: 91 Resp: 1407

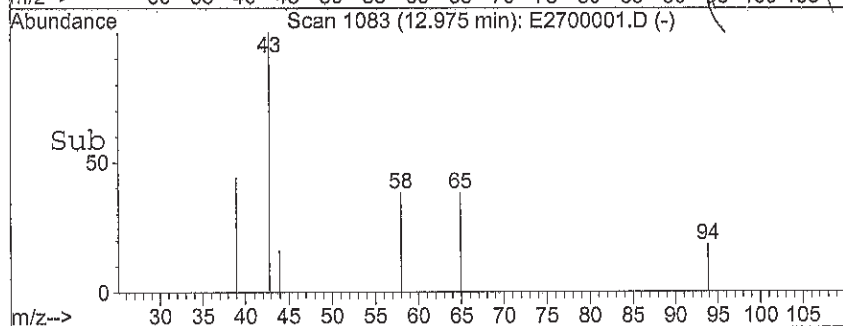
Ion	Ratio	Lower	Upper
91	100		
92	38.3	47.4	71.0#



Abundance

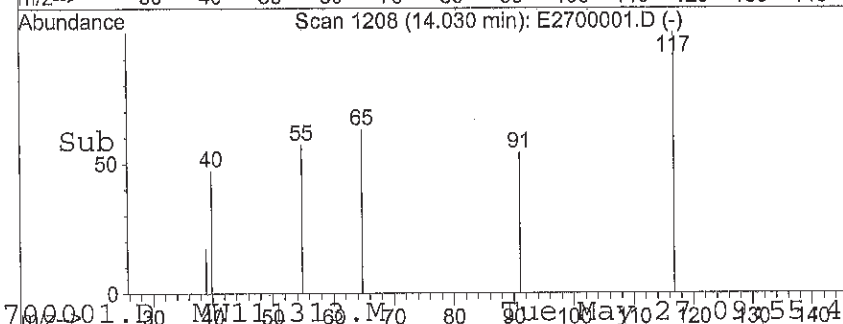
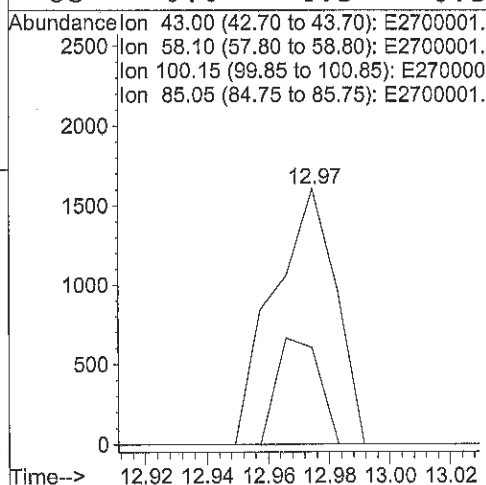
Ion 91.10 (90.80 to 91.80): E2700001.
 Ion 92.10 (91.80 to 92.80): E2700001.





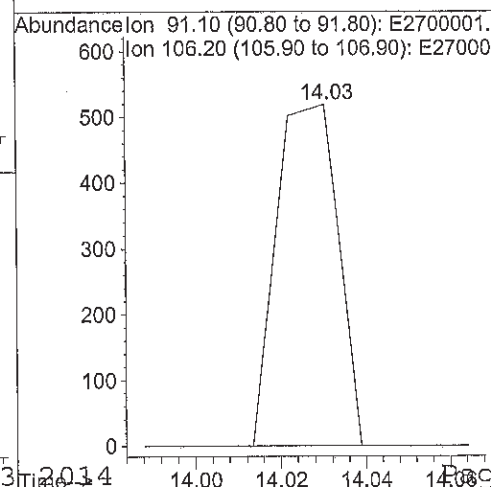
```
#46
2-Hexanone
Concen: 0.81 ug/L
RT: 12.97 min Scan# 1083
Delta R.T. 0.01 min
Lab File: E2700001.D
Acq: 27 May 2014 9:29 am
```

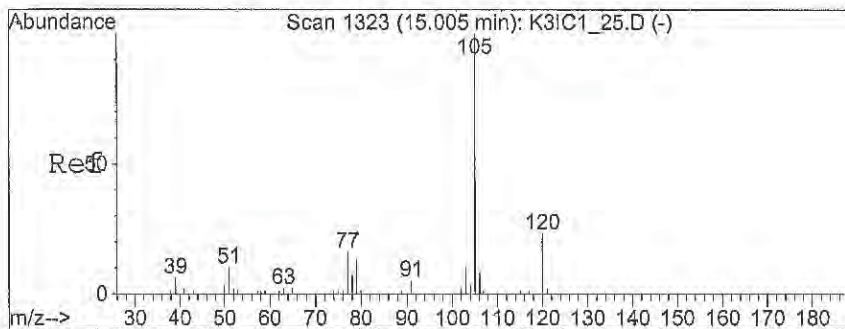
Tgt	Ion: 43	Resp:	2260
Ion	Ratio	Lower	Upper
43	100		
58	28.4	40.9	61.3#
✓100	0.0	5.5	8.3#
85	0.0	4.3	6.5#



#51
Ethylbenzene
Concen: 0.03 ug/L
RT: 14.03 min Scan# 1208
Delta R.T. 0.01 min
Lab File: E2700001.D
Acq: 27 May 2014 9:29 am

Tgt Ion: 91	Resp: 517
Ion Ratio	Lower Upper
91 100	
106 0.0	23.5 35.3#





#56

Isopropylbenzene

Concen: 0.07 ug/L

RT: 15.21 min Scan# 1348

Delta R.T. 0.21 min

Lab File: E2700001.D

Acq: 27 May 2014 9:29 am

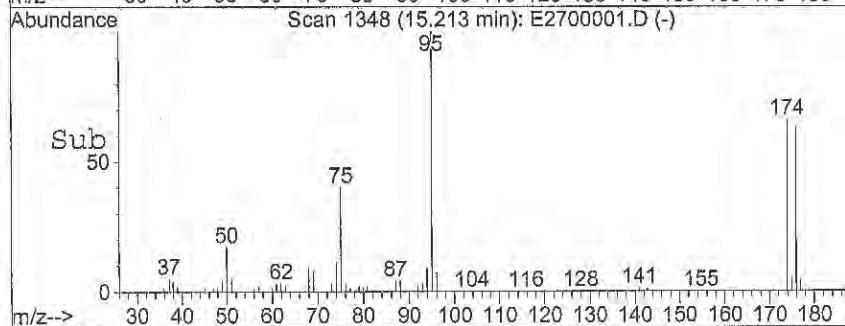
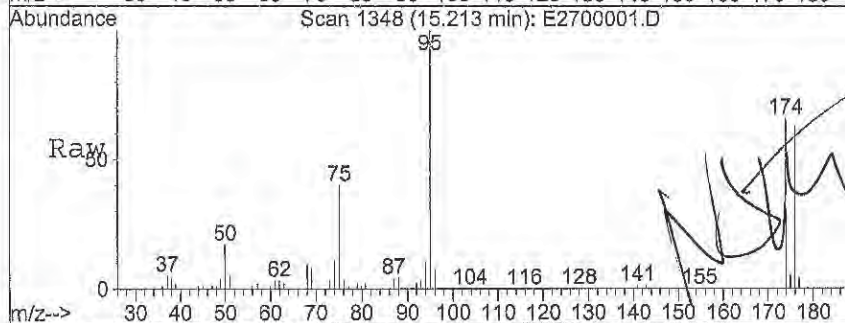
Tgt Ion: 105 Resp: 1284

Ion Ratio Lower Upper

105 100

120 0.0 19.3 28.9#

77 253.6 13.1 19.7#

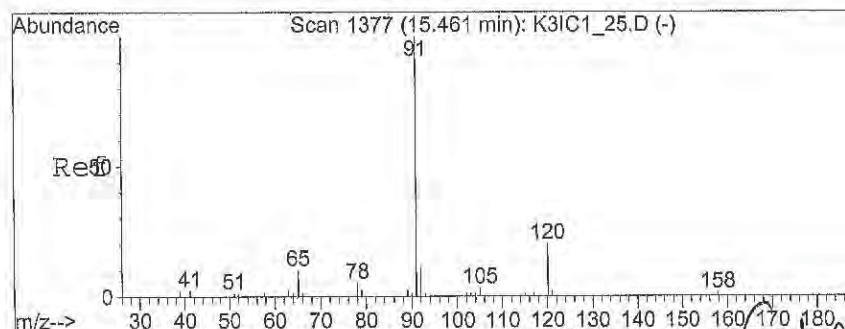
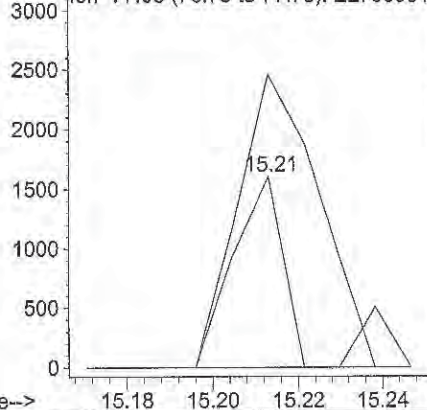


Abundance

Ion 105.10 (104.80 to 105.80): E2700001

Ion 120.15 (119.85 to 120.85): E2700001

Ion 77.05 (76.75 to 77.75): E2700001



#62

n-Propylbenzene

Concen: 0.08 ug/L

RT: 15.21 min Scan# 1348

Delta R.T. -0.25 min

Lab File: E2700001.D

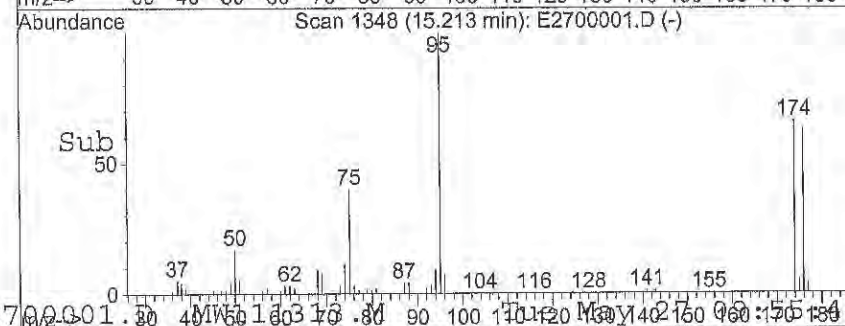
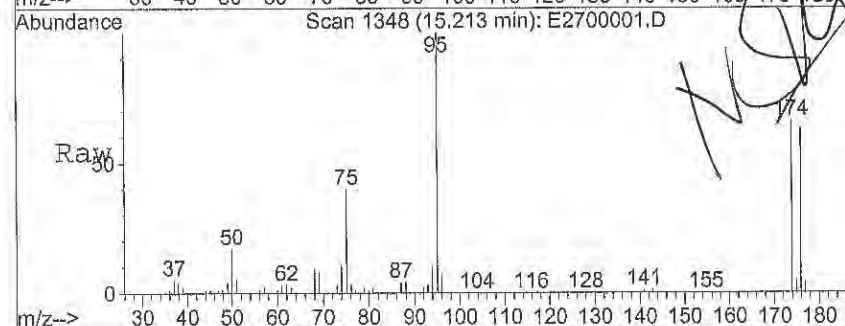
Acq: 27 May 2014 9:29 am

Tgt Ion: 91 Resp: 2236

Ion Ratio Lower Upper

91 100

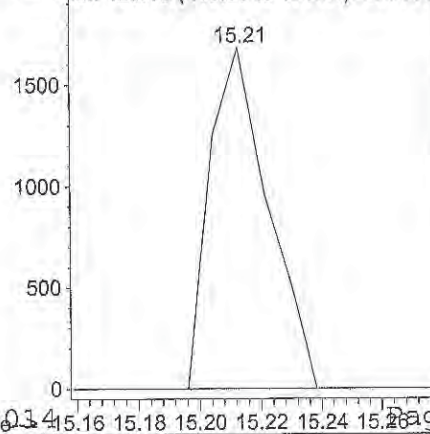
120 0.0 16.1 24.1#

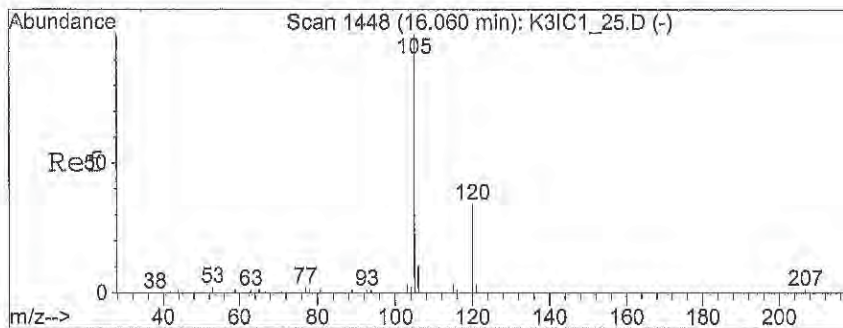


Abundance

Ion 91.10 (90.80 to 91.80): E2700001

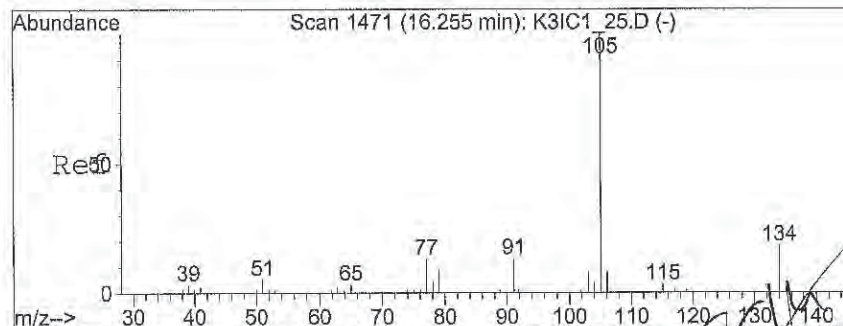
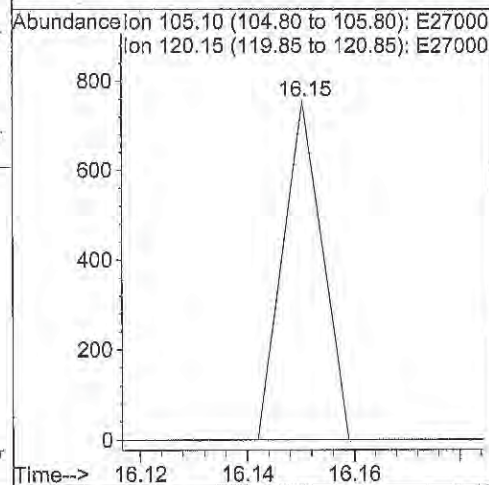
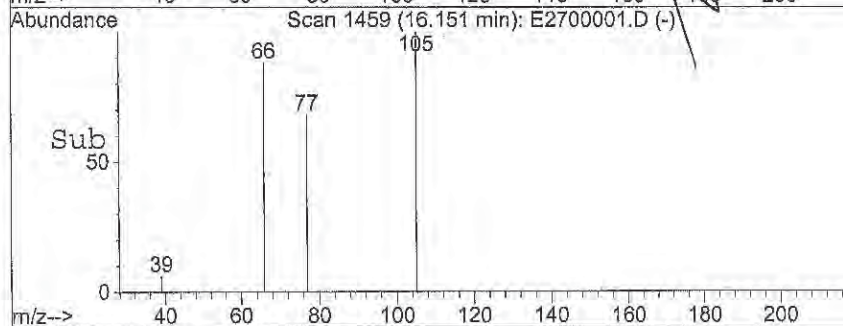
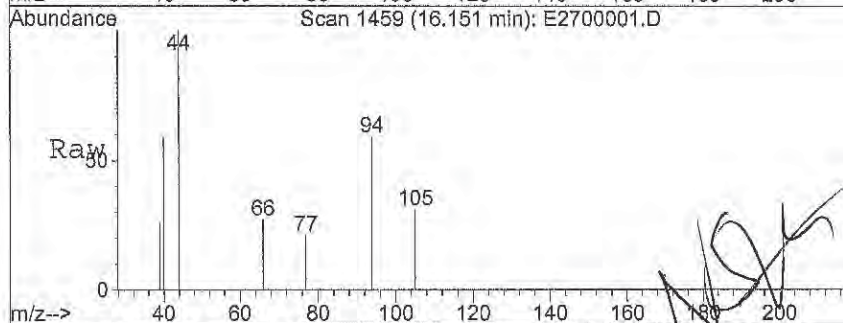
Ion 120.15 (119.85 to 120.85): E2700001





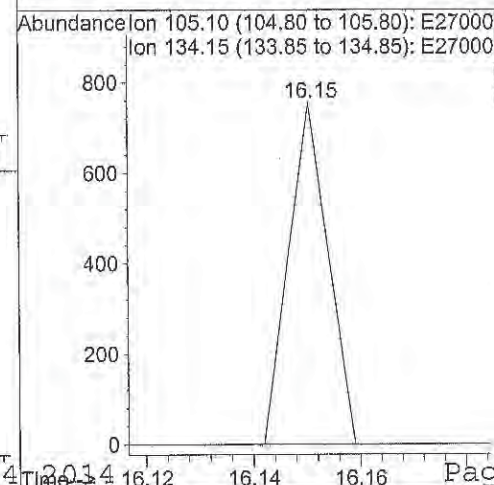
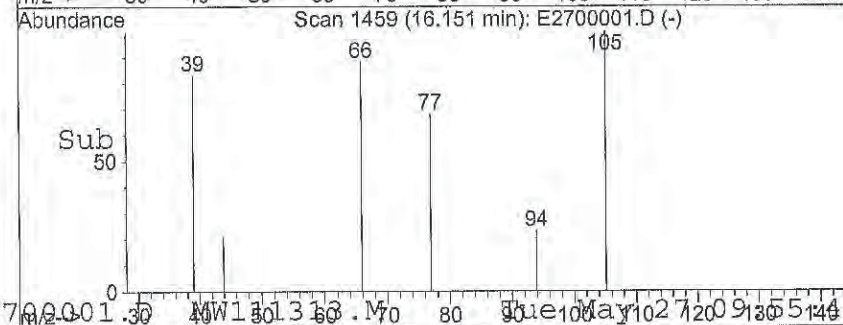
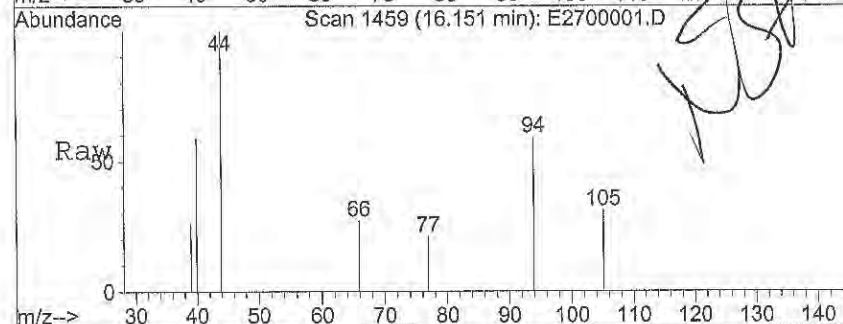
#67
 1,2,4-Trimethylbenzene
 Concen: 0.02 ug/L
 RT: 16.15 min Scan# 1459
 Delta R.T. 0.09 min
 Lab File: E2700001.D
 Acq: 27 May 2014 9:29 am

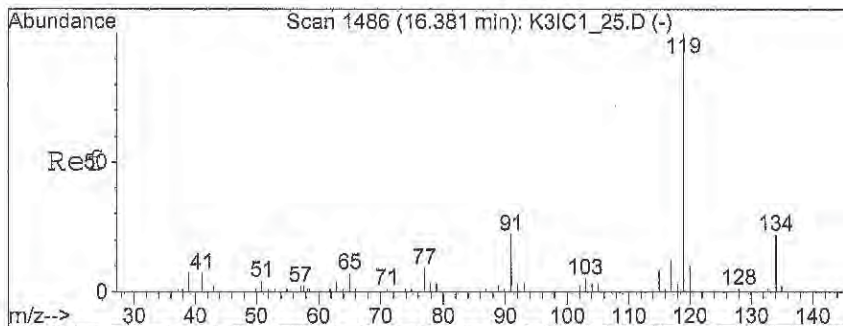
Tgt Ion:105 Resp: 383
 Ion Ratio Lower Upper
 105 100
 120 0.0 33.8 50.8#



#68
 sec-Butylbenzene
 Concen: 0.02 ug/L
 RT: 16.15 min Scan# 1459
 Delta R.T. -0.10 min
 Lab File: E2700001.D
 Acq: 27 May 2014 9:29 am

Tgt Ion:105 Resp: 383
 Ion Ratio Lower Upper
 105 100
 134 0.0 13.0 19.6#





#69

p-Isopropyltoluene

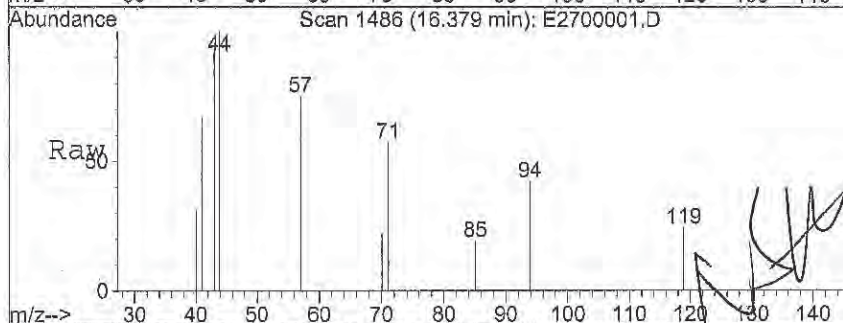
Concen: 0.02 ug/L

RT: 16.38 min Scan# 1486

Delta R.T. -0.00 min

Lab File: E2700001.D

Acq: 27 May 2014 9:29 am



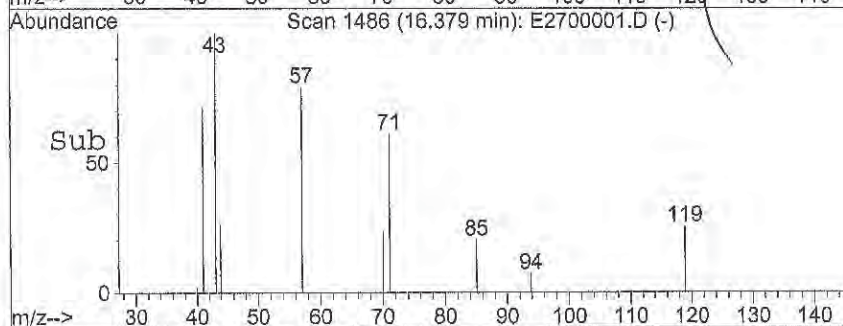
Tgt Ion: 119 Resp: 415

Ion Ratio Lower Upper

119 100

134 0.0 17.4 26.2#

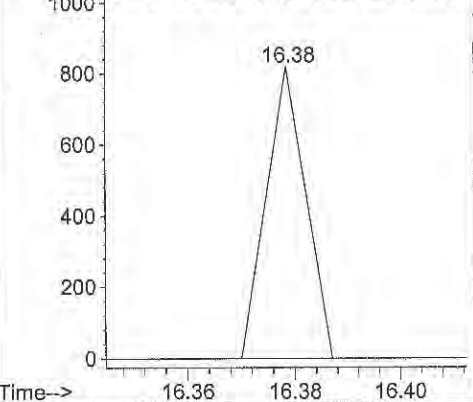
91 0.0 19.6 29.4#



Abundance Ion 119.15 (118.85 to 119.85): E27000

Ion 134.15 (133.85 to 134.85): E27000

Ion 91.10 (90.80 to 91.80): E2700001.



Data File : C:\HPCHEM\1\DATA\052714L3\E2700001.D

Vial: 11

Acq On : 27 May 2014 9:29 am

Operator: DN

Sample : 3E42701-01

Inst : GC/MS Ins

Misc : 100cc Equipment Blank

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 9:56 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1669603	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.91	117	1275583	12.50	ug/L	-0.02
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	659835	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	469086	10.80	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	86.40%
3) Chloroform-d (SU6)	9.18	84	809186	12.99	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	103.92%
4) Methylene Chloride-d2 (SU5)	7.08	86	459542	12.62	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	100.96%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	473095	15.94	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	127.52%#
6) Benzene-d6 (SU7)	9.93	84	1603887	12.24	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	97.92%
8) Toluene-d8 (SU3)	12.21	98	1415096	11.69	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	93.52%
9) 4-Bromofluorobenzene (SU4)	15.21	95	684561	13.70	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	109.60%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700001.D SS072713.M

Tue May 27 09:56:09 2014

Page 1

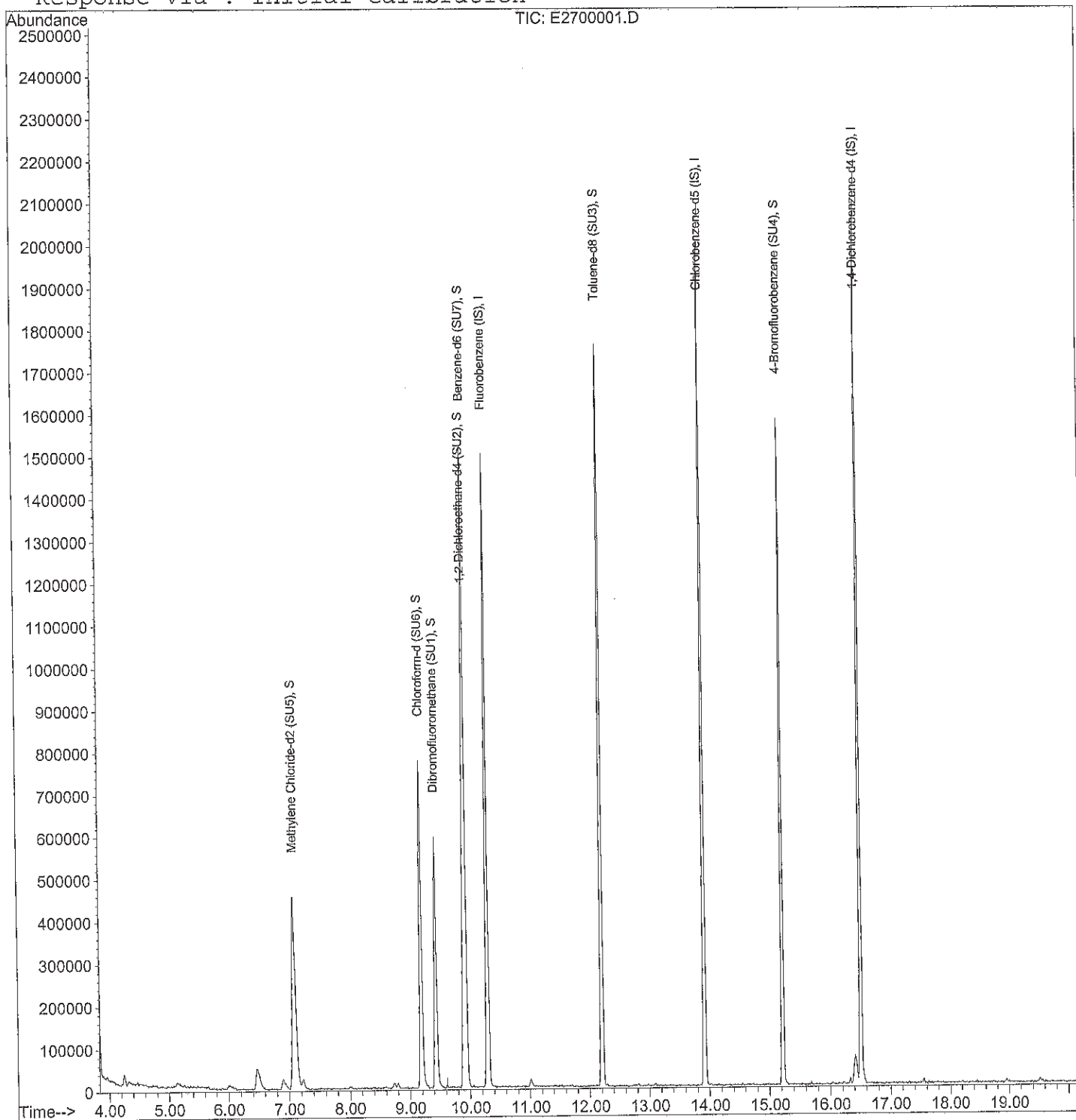
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700001.D
 Acq On : 27 May 2014 9:29 am
 Sample : 3E42701-01
 Misc : 100cc Equipment Blank
 MS Integration Params: rteint.p
 Quant Time: May 27 9:56 19114

Vial: 11
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E2700002.D
 Acq On : 27 May 2014 9:58 am
 Sample : 3E42701-02
 Misc : 100cc SVL-502-SA5D-SV-5.0-6.0
 MS Integration Params: rteint.p
 Quant Time: May 27 10:36 19114

Vial: 1
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1799866	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1320072	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	691378	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	494253	11.01	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	88.08%
28) 1,2-Dichloroethane-d4 (SU2)	9.89	65	491526	11.52	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	92.16%
39) Toluene-d8 (SU3)	12.20	98	1520313	12.35	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	98.80%
58) 4-Bromofluorobenzene (SU4)	15.22	95	725194	13.43	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	107.44%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) (F12) Dichlorodifluorometh	4.10	85	322	0.07	ug/L	44
4) Chloromethane	4.41	50	8885	1.72	ug/L	59
6) Bromomethane	5.12	96	5749	1.13	ug/L	98
7) Chloroethane	5.24	64	678	1.14	ug/L	34
11) Acetone	6.46	58	23754	36.85	ug/L	71
12) (IPA) Leak Check Compound	6.50	45	83822	387.56	ug/L	89
13) Carbon disulfide	6.86	76	83750	5.60	ug/L	99
14) Methylene Chloride	7.08	84	5914	1.20	ug/L	1
15) (TBA) tert-Butanol	6.90	59	5738	18.69	ug/L	77
20) 2,2-Dichloropropane	8.79	77	283	0.04	ug/L	36
21) (MEK) 2-Butanone	8.80	72	1211	2.39	ug/L	1
24) Chloroform	9.21	83	2280	0.24	ug/L	18
25) (ETBE) 2-ethoxy 2-methyl p	8.40	59	279	0.02	ug/L	44
31) Benzene	9.99	78	15447	0.91	ug/L	69
32) 1,2-Dichloroethane	9.93	62	7811	1.30	ug/L	1
34) 1,2-Dichloropropane	11.03	63	254	0.06	ug/L	2
35) Dibromomethane	11.00	93	272	0.09	ug/L	5
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	8455	3.21	ug/L	100
41) Toluene	12.28	91	112464	6.25	ug/L	100
46) 2-Hexanone	12.97	43	2548	0.88	ug/L	62
51) Ethylbenzene	14.02	91	26025	1.27	ug/L	94
52) m,p-Xylenes	14.14	106	28793	3.96	ug/L	95

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E2700002.D

Vial: 1

Acq On : 27 May 2014 9:58 am

Operator: DN

Sample : 3E42701-02

Inst : GC/MS Ins

Misc : 100cc SVL-502-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 10:36 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53) o-Xylene	14.62	106	12886	1.79	ug/L	0.03885
54) Styrene	14.62	104	2484	-0.63	ug/L	9
56) Isopropylbenzene	15.00	105	835	0.04	ug/L	55
60) 1,1,2,2-Tetrachloroethane	15.40	83	1132	0.23	ug/L	18
62) n-Propylbenzene	15.46	91	2233	0.08	ug/L	56
63) 2-Chlorotoluene	15.57	91	416	0.02	ug/L	45
64) 1,3,5-Trimethylbenzene	15.61	105	1666	0.10	ug/L	66
65) 4-Chlorotoluene	15.88	91	272	0.02	ug/L	44
66) tert-Butylbenzene	16.04	119	637	0.04	ug/L	24
67) 1,2,4-Trimethylbenzene	16.06	105	4740	0.26	ug/L	0.0052
68) sec-Butylbenzene	16.14	105	897	0.04	ug/L	62
69) p-Isopropyltoluene	16.37	119	1234	0.07	ug/L	52

(#) = qualifier out of range (m) = manual integration

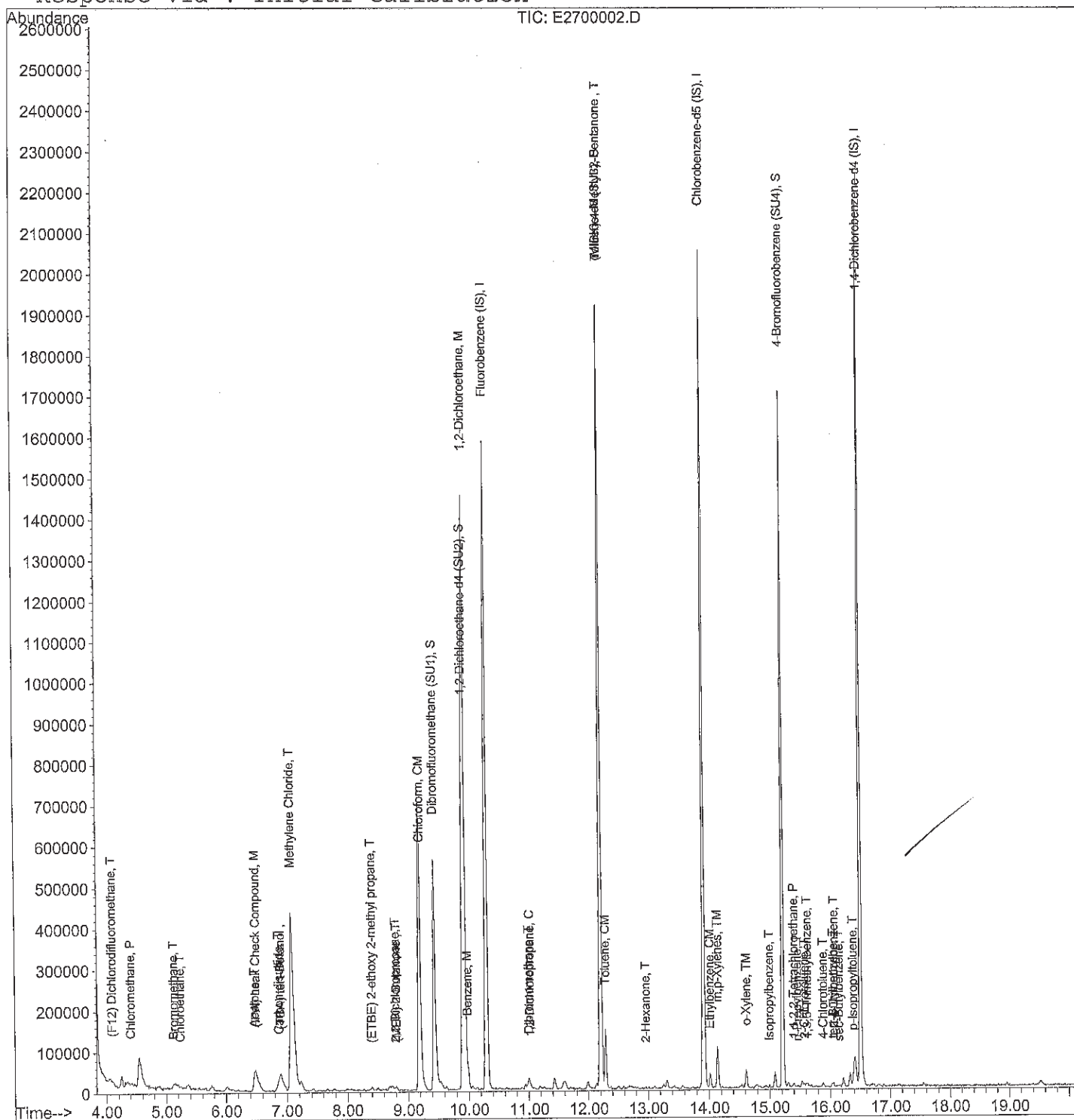
Quantitation Report

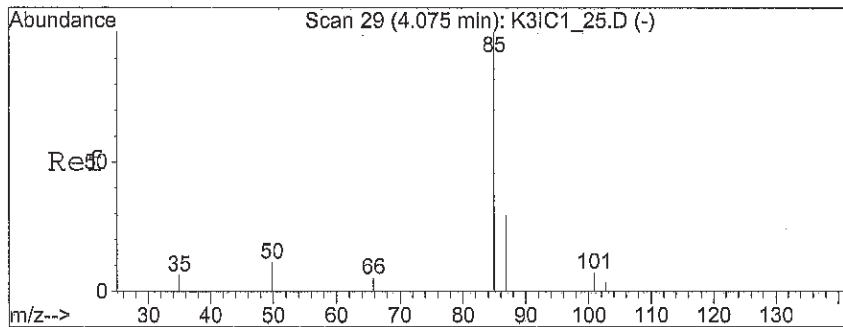
Data File : C:\HPCHEM\1\DATA\052714L3\E2700002.D
Acq On : 27 May 2014 9:58 am
Sample : 3E42701-02
Misc : 100cc SVL-502-SA5D-SV-5.0-6.0
MS Integration Params: rteint.p
Quant Time: May 27 10:36 19114 Quan

Vial: 1
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

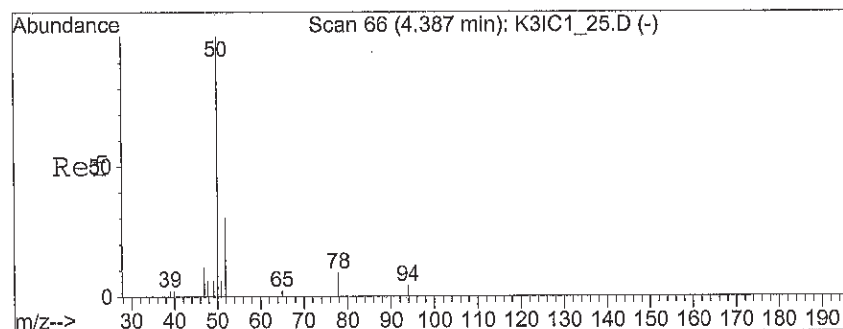
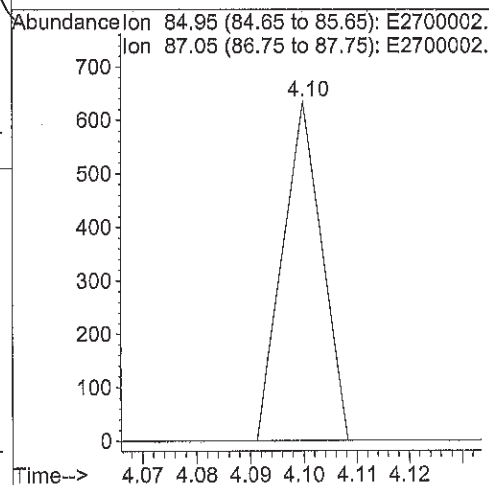
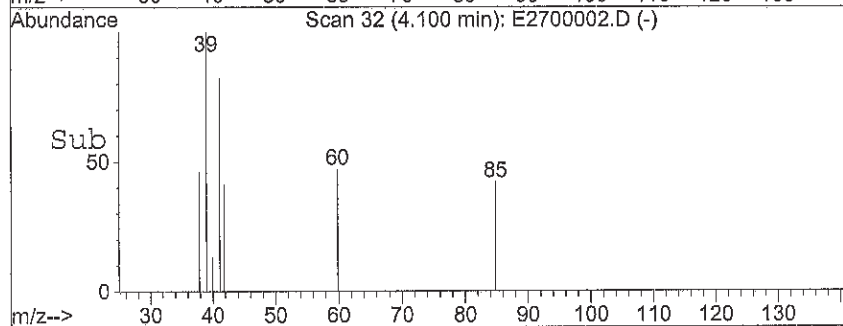
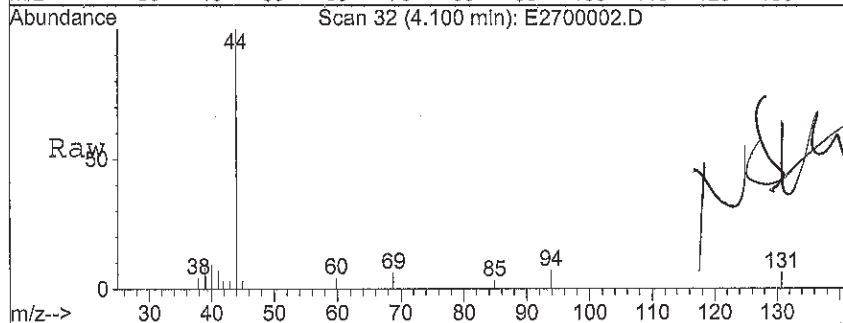
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Method       : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title        : 8260B      GC/MS #3      ICAL 11/13/13      DN
Last Update   : Wed Nov 13 19:38:32 2013
Response via  : Initial Calibration
```





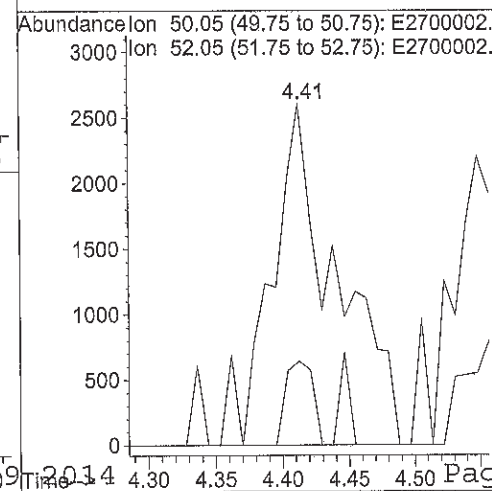
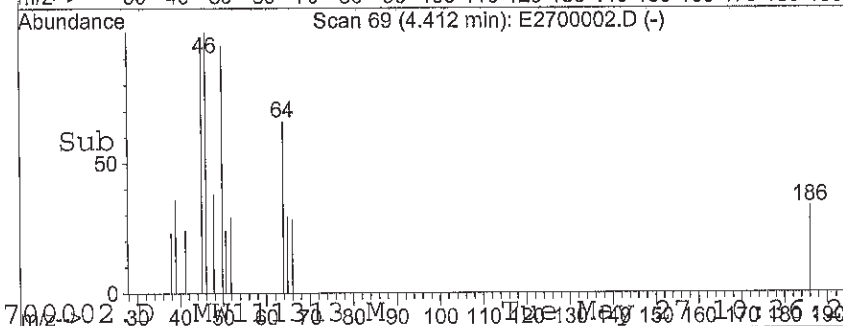
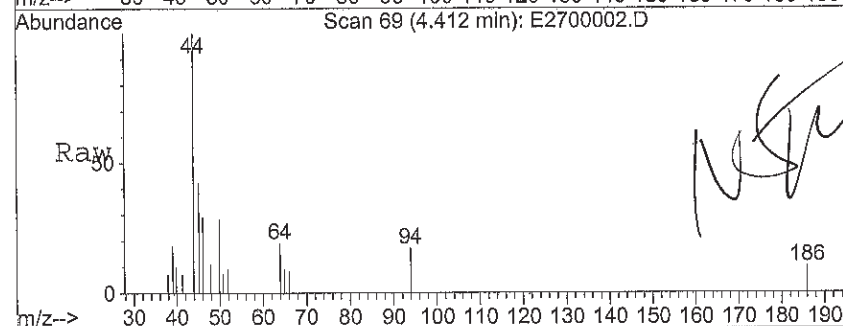
#3
(F12) Dichlorodifluoromethane
Concen: 0.07 ug/L
RT: 4.10 min Scan# 32
Delta R.T. 0.03 min
Lab File: E2700002.D
Acq: 27 May 2014 9:58 am

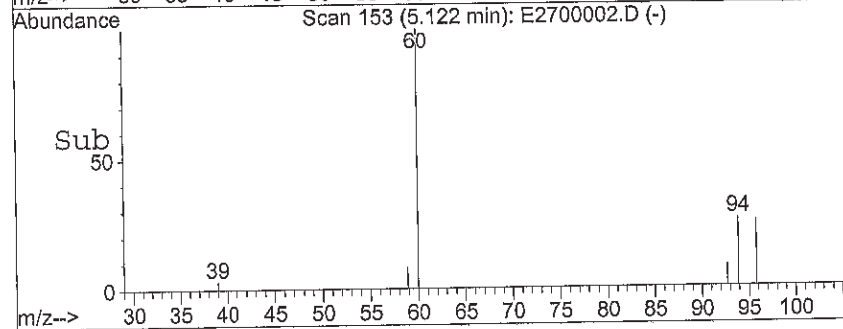
Tgt Ion: 85 Resp: 322
Ion Ratio Lower Upper
85 100
87 0.0 24.6 37.0#



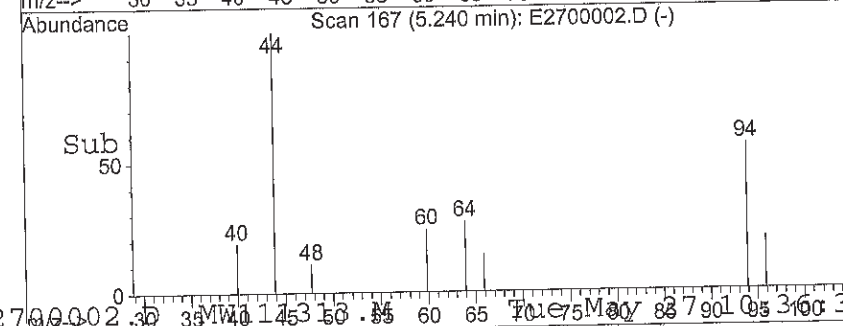
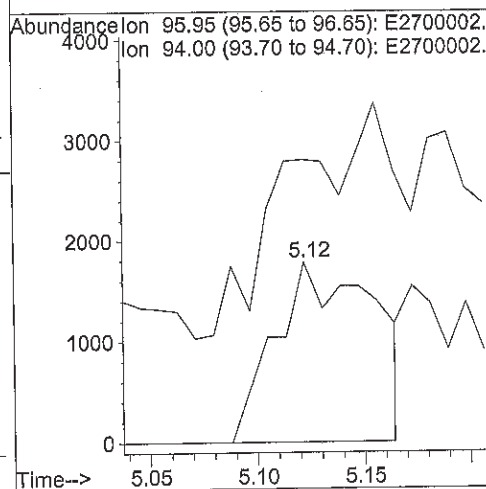
#4
Chloromethane
Concen: 1.72 ug/L
RT: 4.41 min Scan# 69
Delta R.T. 0.03 min
Lab File: E2700002.D
Acq: 27 May 2014 9:58 am

Tgt Ion: 50 Resp: 8885
Ion Ratio Lower Upper
50 100
52 10.2 26.9 40.3#

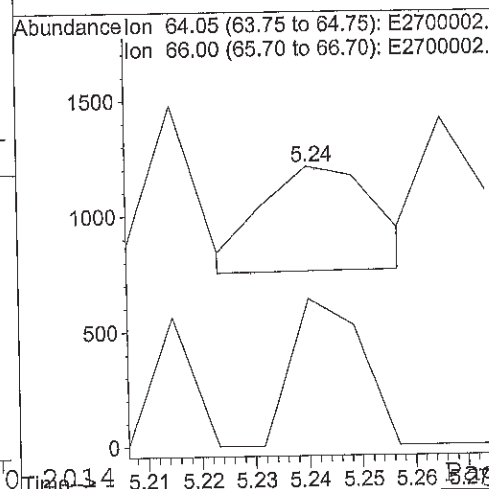


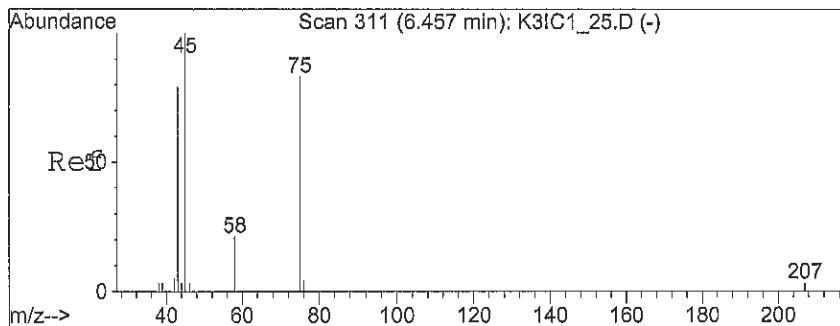


Tgt	Ion: 96	Resp:	5749
Ion	Ratio	Lower	Upper
96	100		
94	124.0	101.0	151.4



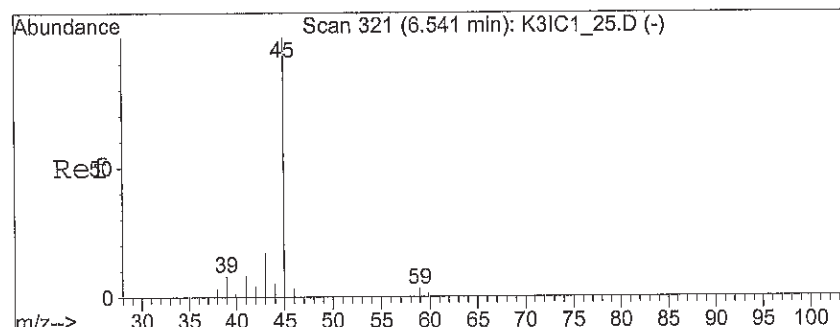
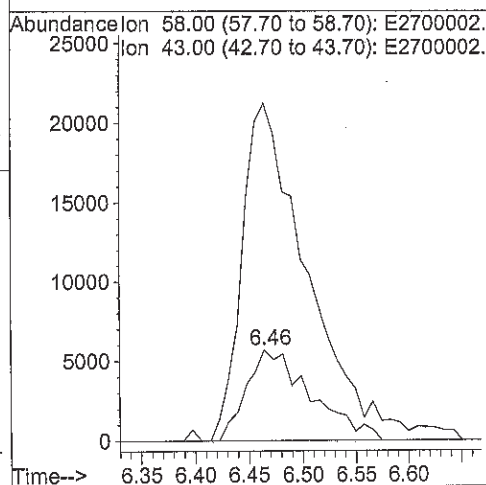
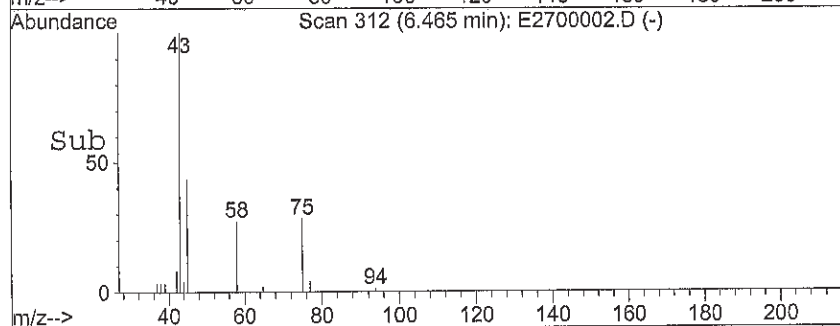
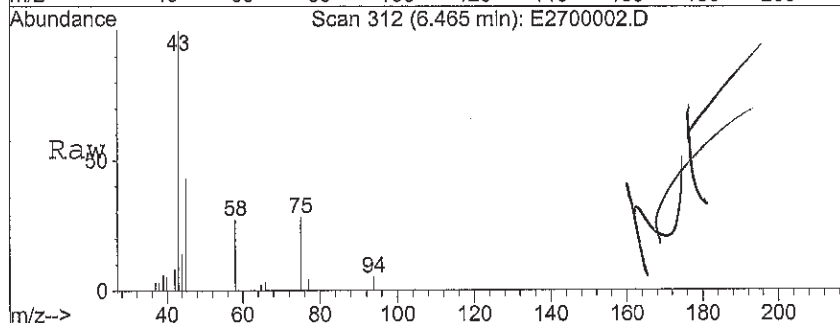
Tgt	Ion: 64	Resp:	678
Ion	Ratio	Lower	Upper
64	100		
66	86.9	35.4	53.0#





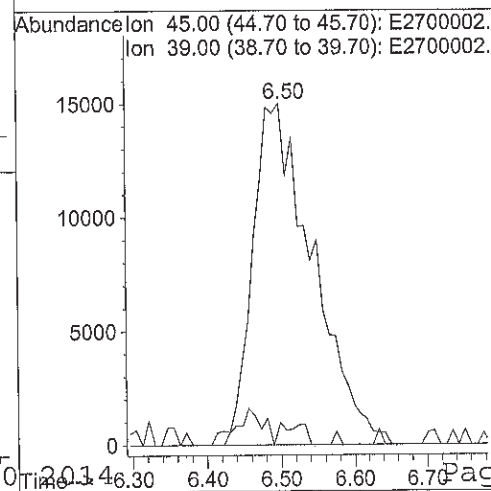
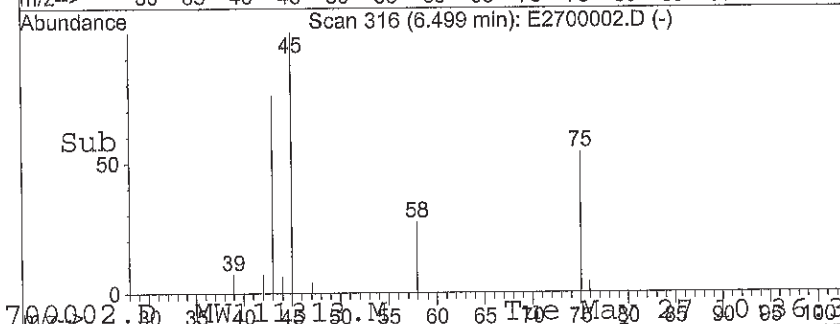
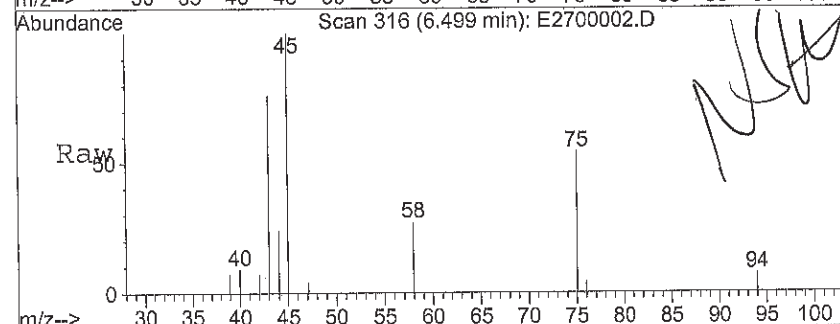
#11
Acetone
Concen: 36.85 ug/L
RT: 6.46 min Scan# 312
Delta R.T. 0.01 min
Lab File: E2700002.D
Acq: 27 May 2014 9:58 am

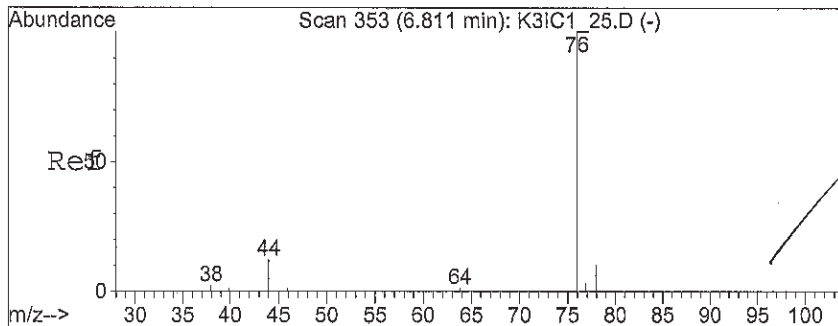
Tgt Ion: 58 Resp: 23754
Ion Ratio Lower Upper
58 100
43 376.0 360.9 541.3



#12
(IPA) Leak Check Compound
Concen: 387.56 ug/L
RT: 6.50 min Scan# 316
Delta R.T. -0.04 min
Lab File: E2700002.D
Acq: 27 May 2014 9:58 am

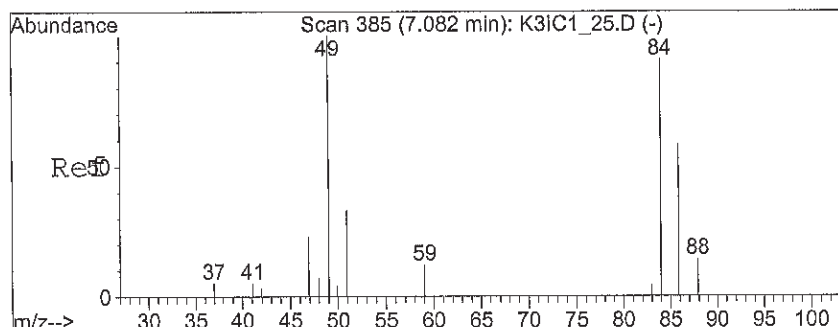
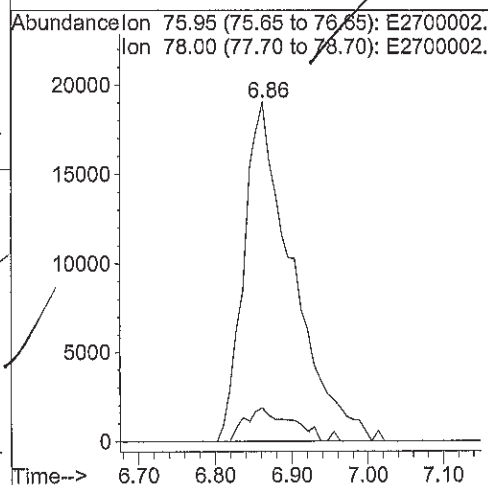
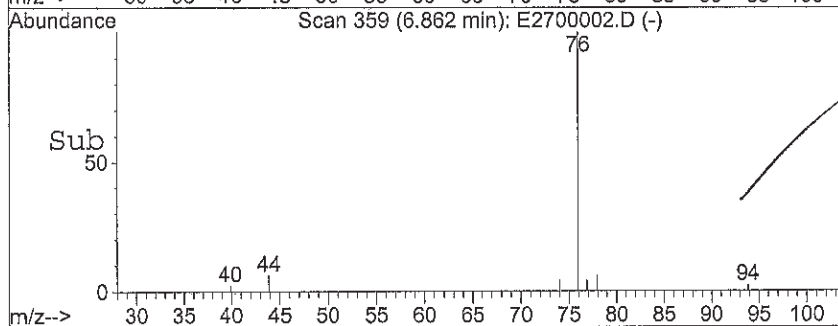
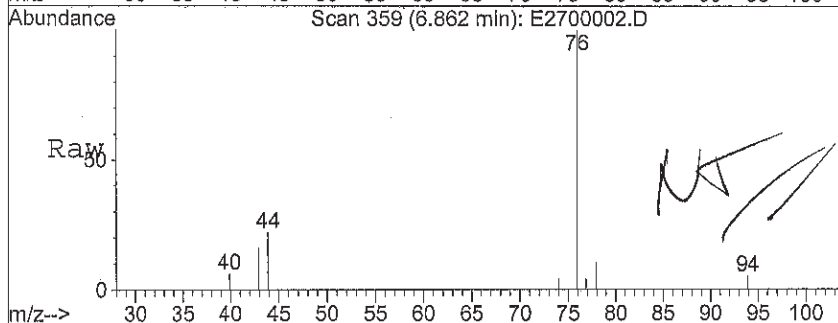
Tgt Ion: 45 Resp: 83822
Ion Ratio Lower Upper
45 100
39 2.5 4.9 7.3#





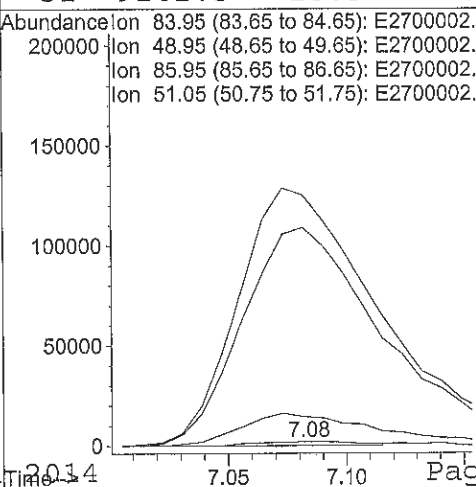
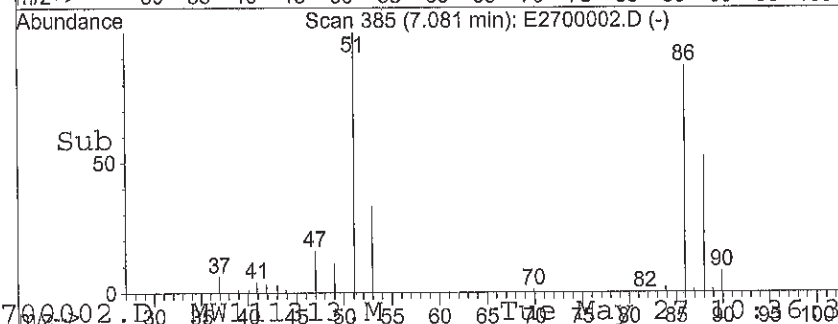
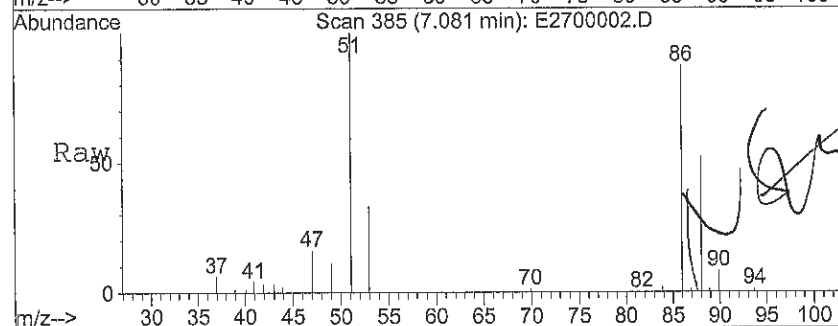
#13
Carbon disulfide
Concen: 5.60 ug/L
RT: 6.86 min Scan# 359
Delta R.T. 0.05 min
Lab File: E2700002.D
Acq: 27 May 2014 9:58 am

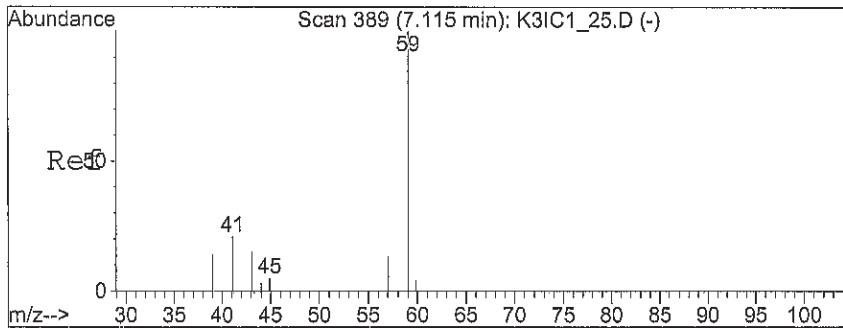
Tgt Ion: 76 Resp: 83750
Ion Ratio Lower Upper
76 100
78 9.2 7.0 10.4



#14
Methylene Chloride
Concen: 1.20 ug/L
RT: 7.08 min Scan# 385
Delta R.T. -0.00 min
Lab File: E2700002.D
Acq: 27 May 2014 9:58 am

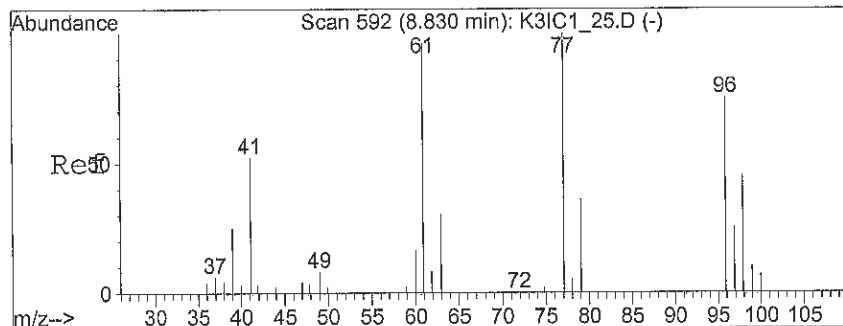
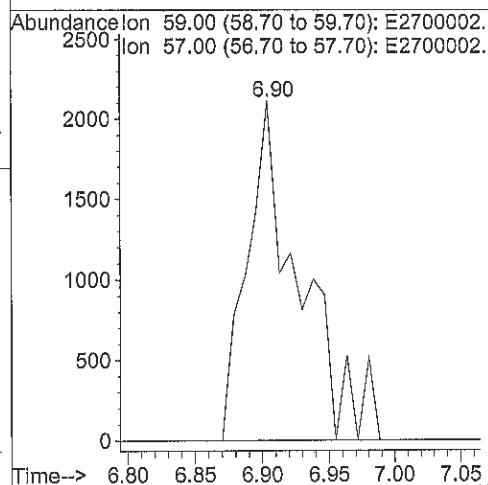
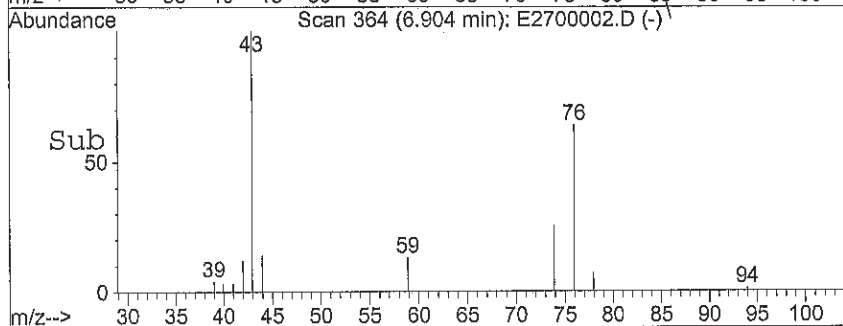
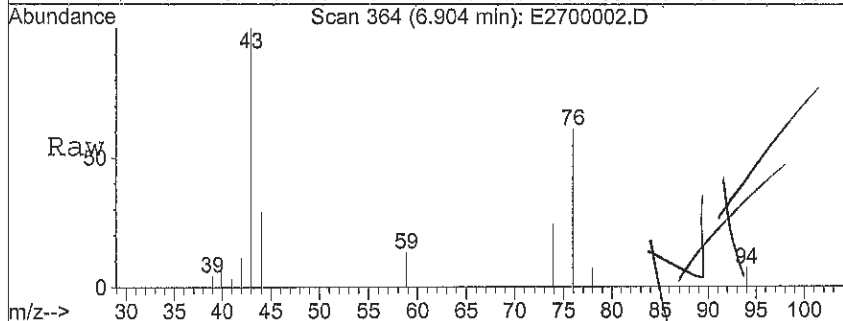
Tgt Ion: 84 Resp: 5914
Ion Ratio Lower Upper
84 100
49 1120.8 89.8 134.6#
86 7829.5 51.1 76.7#
51 9262.5 28.5 42.7#





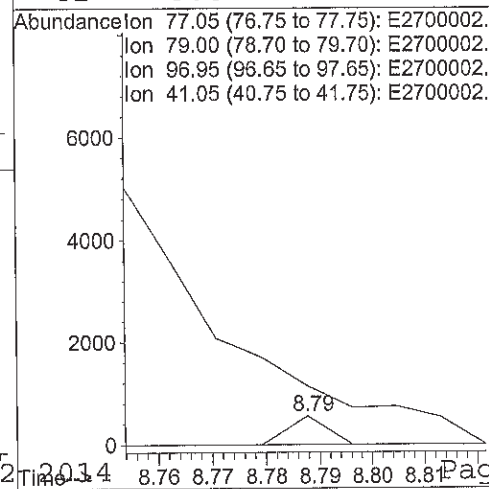
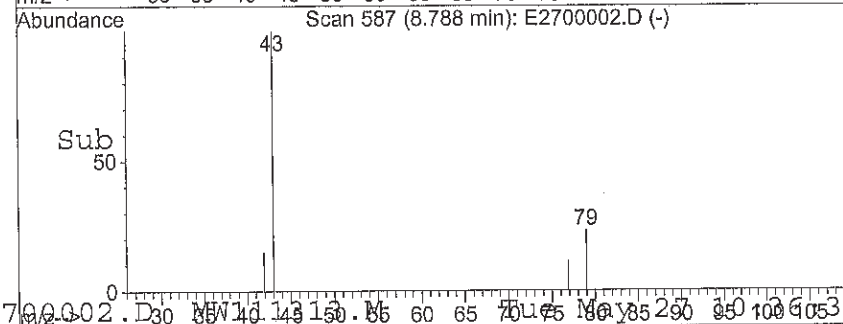
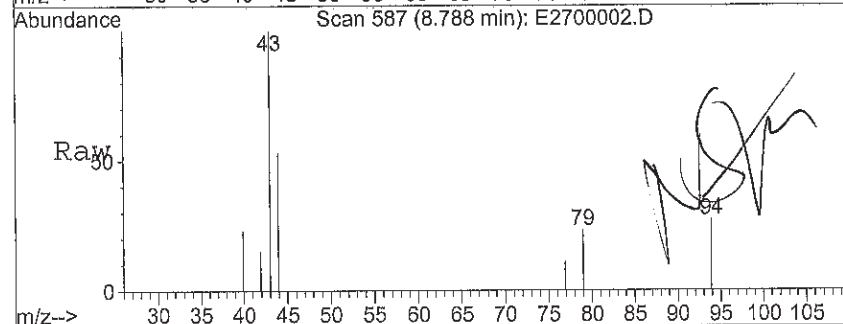
#15
 (TBA) tert-Butanol
 Concen: 18.69 ug/L
 RT: 6.90 min Scan# 364
 Delta R.T. -0.21 min
 Lab File: E2700002.D
 Acq: 27 May 2014 9:58 am

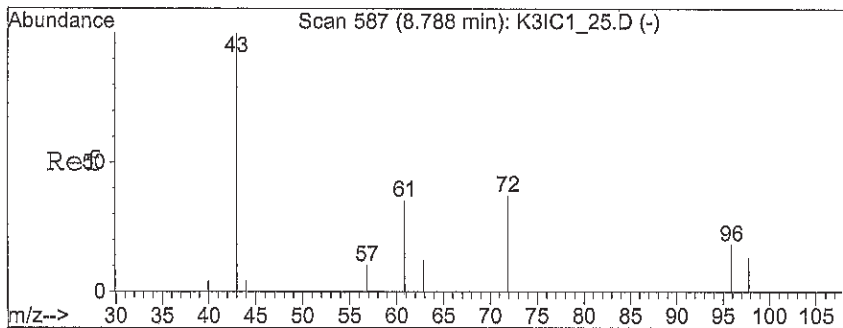
Tgt Ion: 59 Resp: 5738
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#20
 2,2-Dichloropropane
 Concen: 0.04 ug/L
 RT: 8.79 min Scan# 587
 Delta R.T. -0.04 min
 Lab File: E2700002.D
 Acq: 27 May 2014 9:58 am

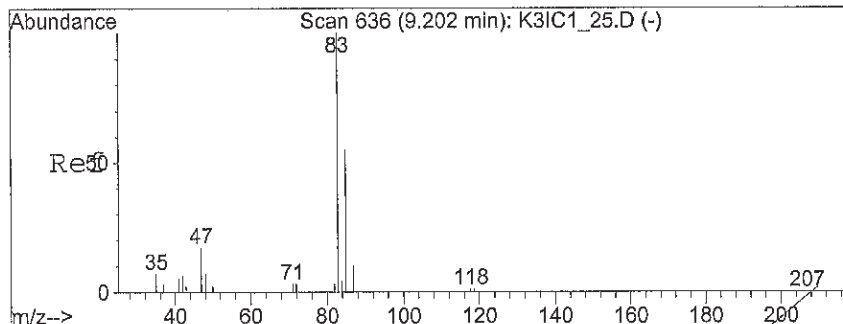
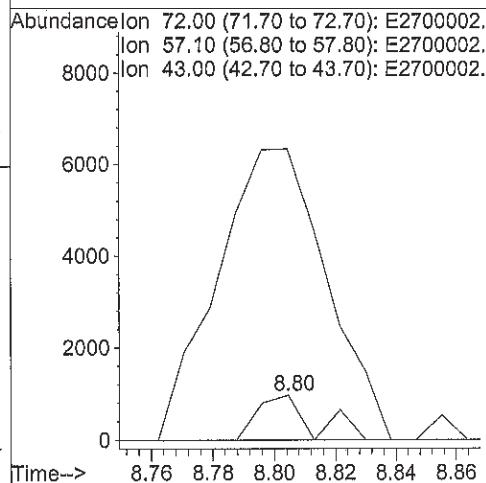
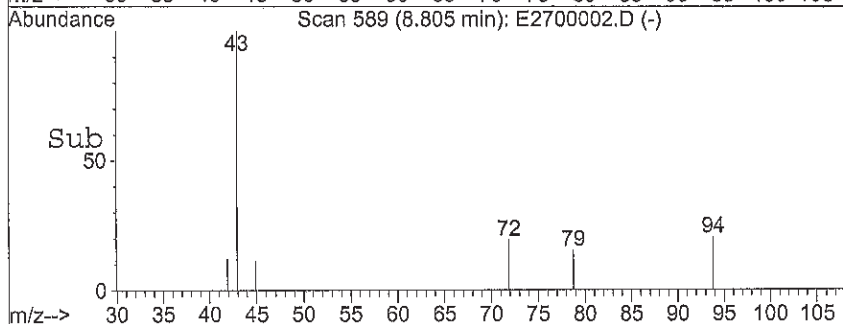
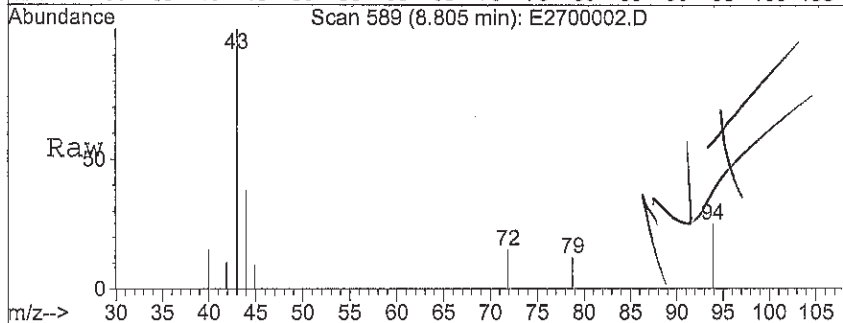
Tgt Ion: 77 Resp: 283
 Ion Ratio Lower Upper
 77 100
 79 0.0 26.6 40.0#
 97 0.0 18.9 28.3#
 41 0.0 42.6 64.0#





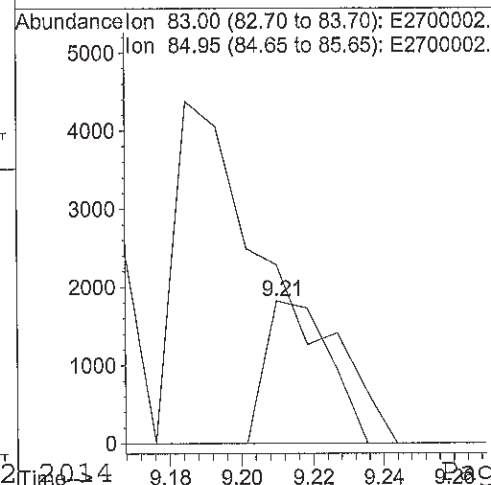
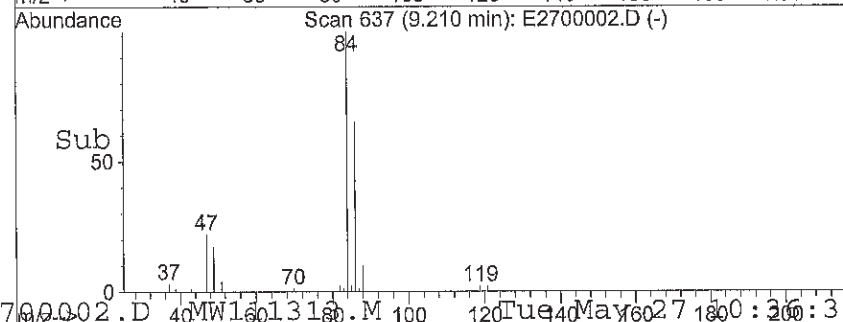
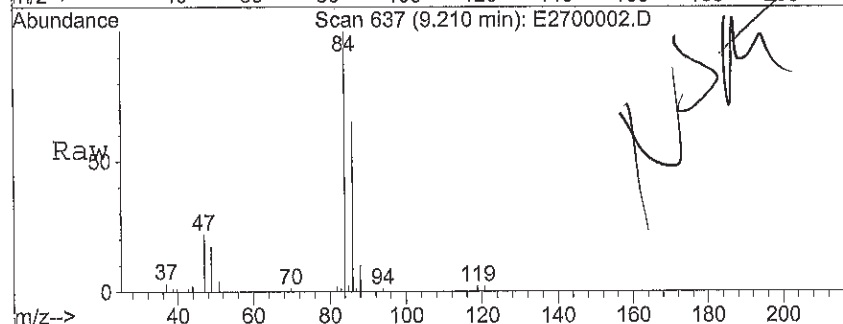
#21
 (MEK) 2-Butanone
 Concen: 2.39 ug/L
 RT: 8.80 min Scan# 589
 Delta R.T. 0.02 min
 Lab File: E2700002.D
 Acq: 27 May 2014 9:58 am

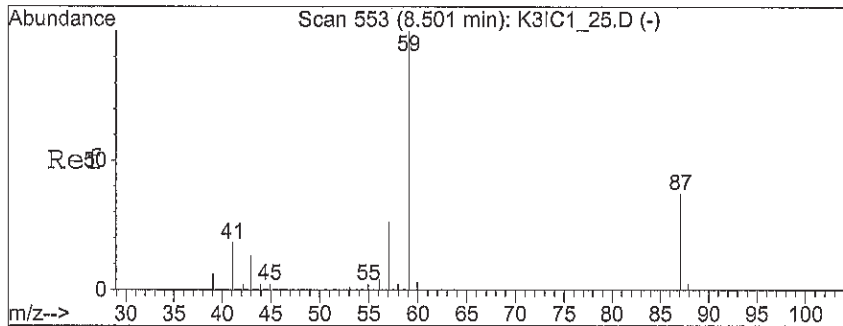
Tgt Ion: 72 Resp: 1211
 Ion Ratio Lower Upper
 72 100
 57 0.0 17.5 26.3#
 43 1293.8 314.2 471.2#



#24
 Chloroform
 Concen: 0.24 ug/L
 RT: 9.21 min Scan# 637
 Delta R.T. 0.01 min
 Lab File: E2700002.D
 Acq: 27 May 2014 9:58 am

Tgt Ion: 83 Resp: 2280
 Ion Ratio Lower Upper
 83 100
 85 0.0 51.8 77.6#





#25

(ETBE) 2-ethoxy 2-methyl propan

Concen: 0.02 ug/L

RT: 8.40 min Scan# 541

Delta R.T. -0.10 min

Lab File: E2700002.D

Acq: 27 May 2014 9:58 am

Tgt Ion: 59 Resp: 279

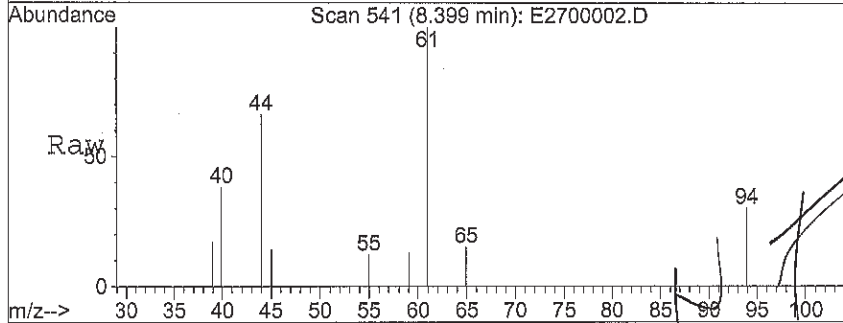
Ion Ratio Lower Upper

59 100

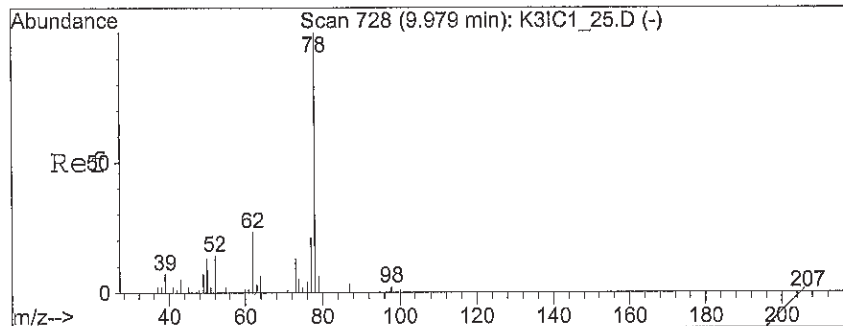
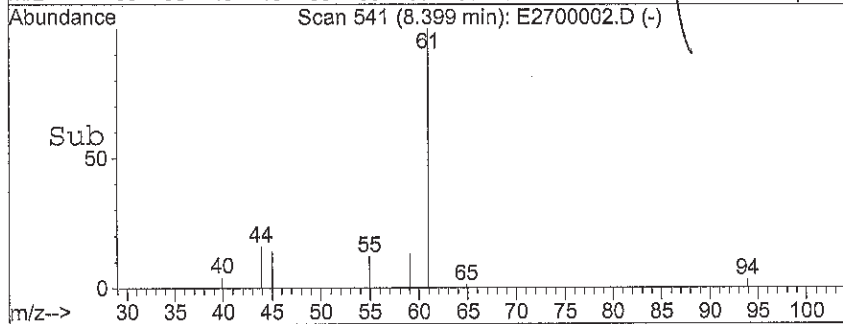
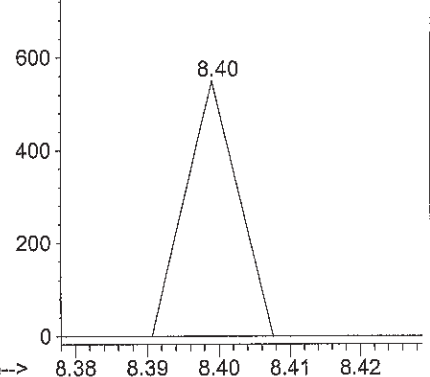
87 0.0 27.8 41.8#

57 0.0 19.8 29.6#

77 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): E2700002.
Ion 87.10 (86.80 to 87.80): E2700002.
Ion 57.00 (56.70 to 57.70): E2700002.
Ion 76.95 (76.65 to 77.65): E2700002.



#31

Benzene

Concen: 0.91 ug/L

RT: 9.99 min Scan# 729

Delta R.T. 0.01 min

Lab File: E2700002.D

Acq: 27 May 2014 9:58 am

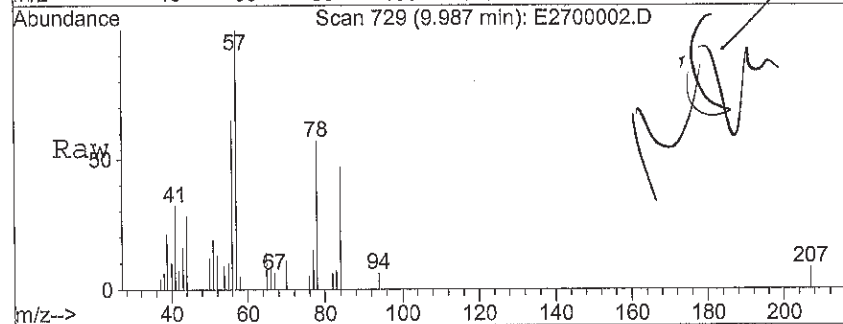
Tgt Ion: 78 Resp: 15447

Ion Ratio Lower Upper

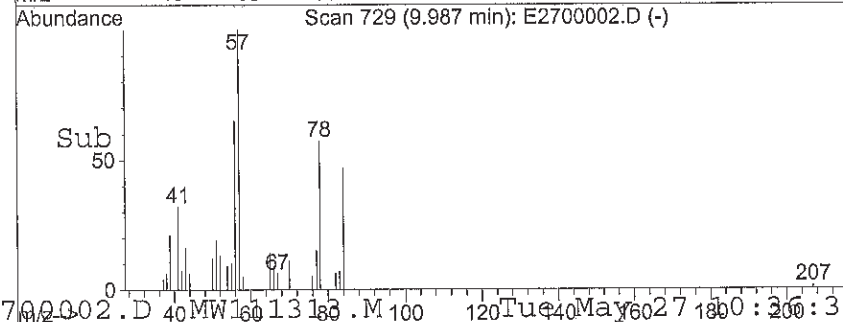
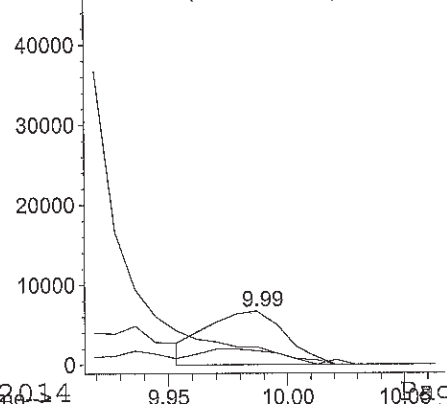
78 100

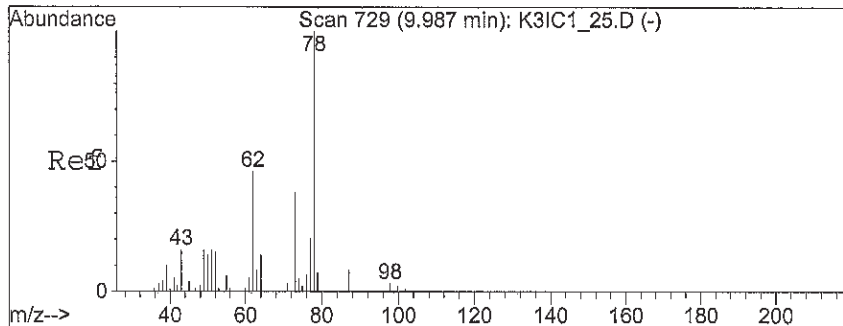
51 0.0 14.2 21.2#

77 31.6 16.6 24.8#



Abundance Ion 78.10 (77.80 to 78.80): E2700002.
Ion 51.05 (50.75 to 51.75): E2700002.
Ion 77.15 (76.85 to 77.85): E2700002.





#32

1,2-Dichloroethane

Concen: 1.30 ug/L

RT: 9.93 min Scan# 722

Delta R.T. -0.06 min

Lab File: E2700002.D

Acq: 27 May 2014 9:58 am

Tgt Ion: 62 Resp: 7811

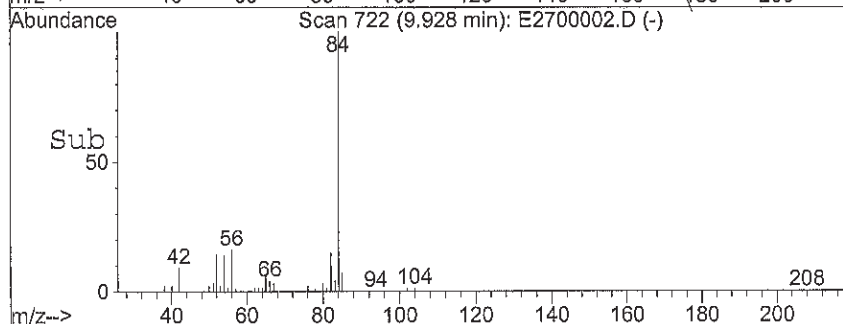
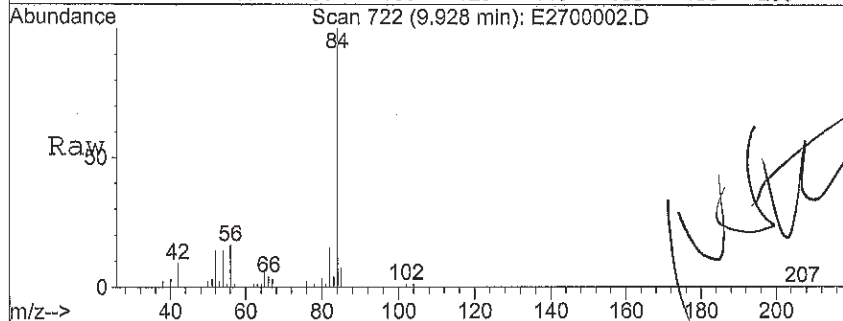
Ion Ratio Lower Upper

62 100

64 174.7 28.0 42.0#

49 0.0 28.5 42.7#

98 0.0 6.2 9.4#



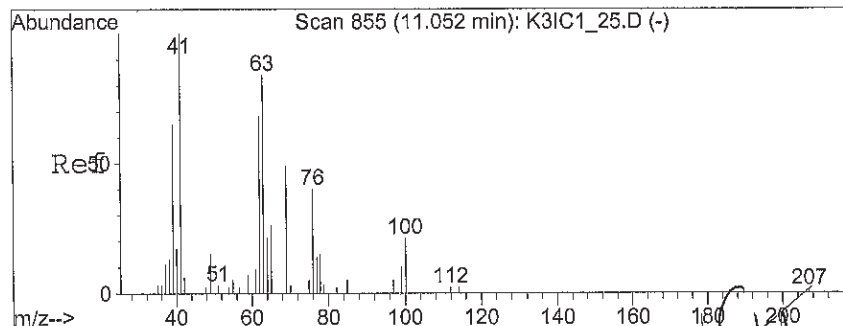
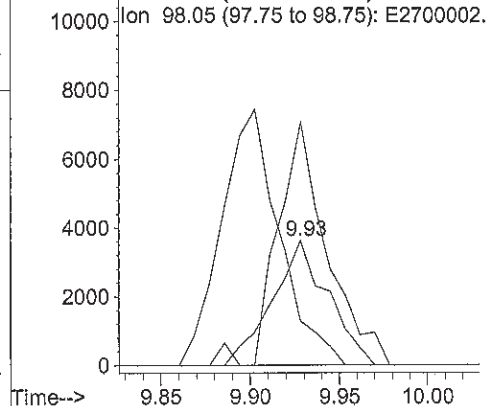
Abundance

Ion 62.05 (61.75 to 62.75): E2700002.

Ion 64.05 (63.75 to 64.75): E2700002.

Ion 49.00 (48.70 to 49.70): E2700002.

Ion 98.05 (97.75 to 98.75): E2700002.



#34

1,2-Dichloropropane

Concen: 0.06 ug/L

RT: 11.03 min Scan# 852

Delta R.T. -0.03 min

Lab File: E2700002.D

Acq: 27 May 2014 9:58 am

Tgt Ion: 63 Resp: 254

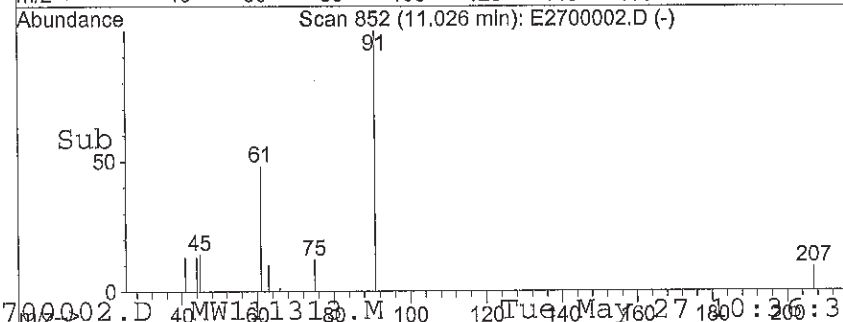
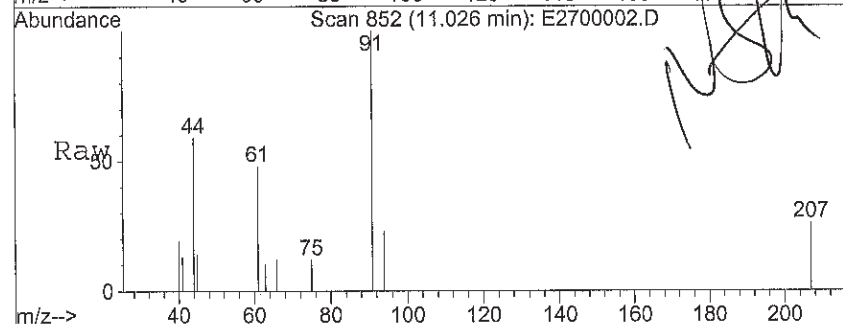
Ion Ratio Lower Upper

63 100

62 0.0 67.4 101.2#

76 0.0 40.3 60.5#

41 0.0 103.0 154.6#



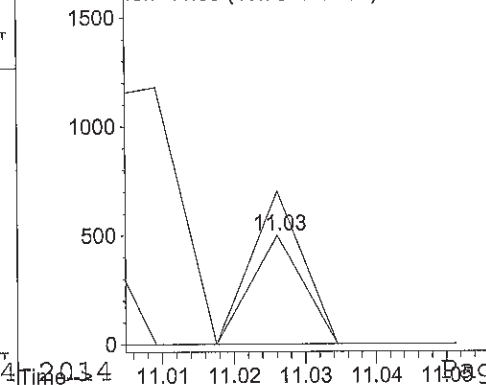
Abundance

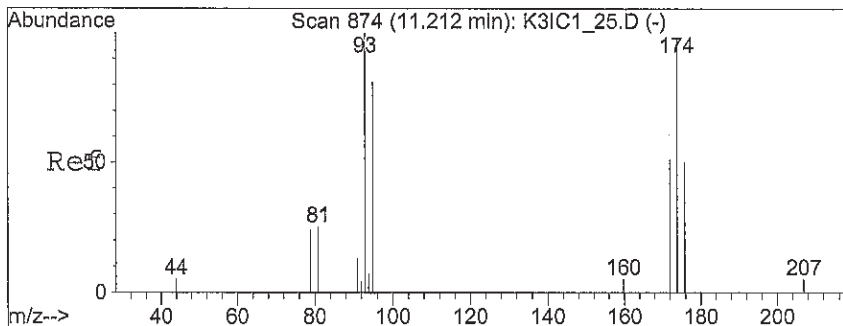
Ion 63.05 (62.75 to 63.75): E2700002.

Ion 62.05 (61.75 to 62.75): E2700002.

Ion 76.05 (75.75 to 76.75): E2700002.

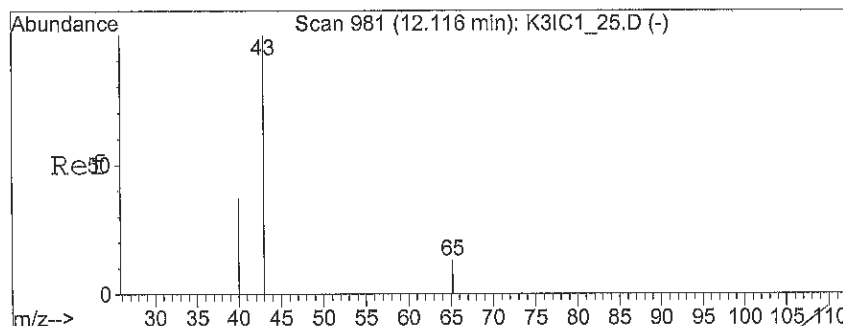
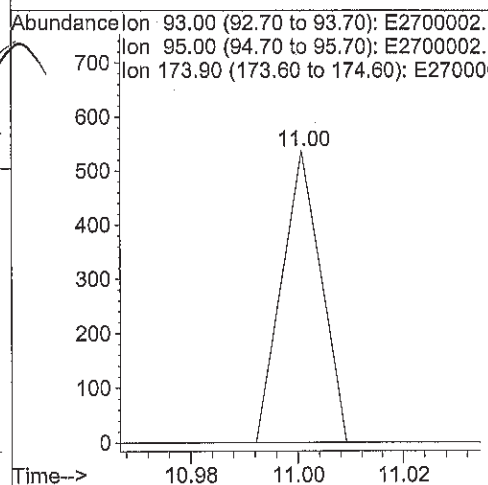
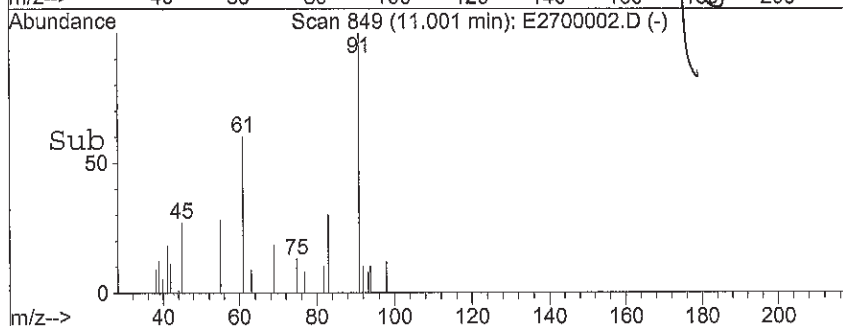
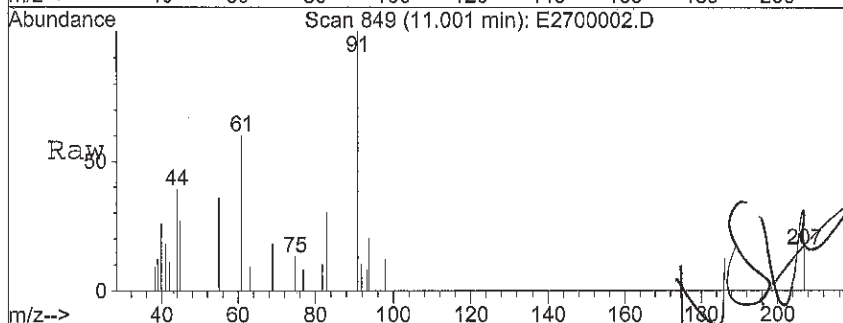
Ion 41.05 (40.75 to 41.75): E2700002.





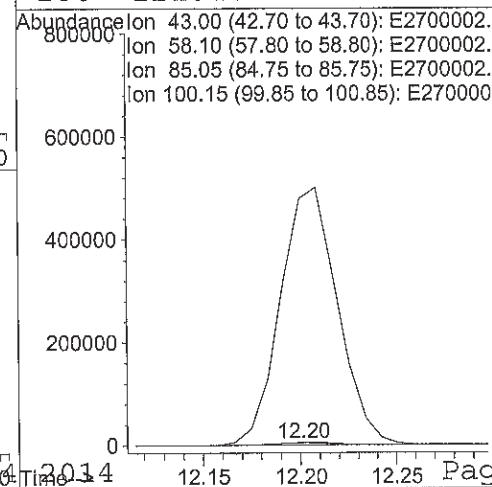
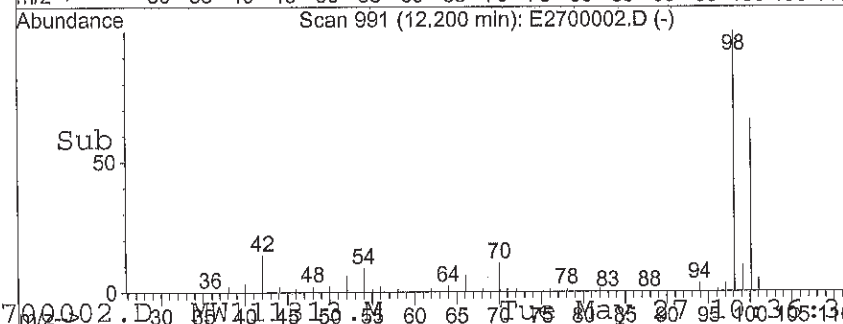
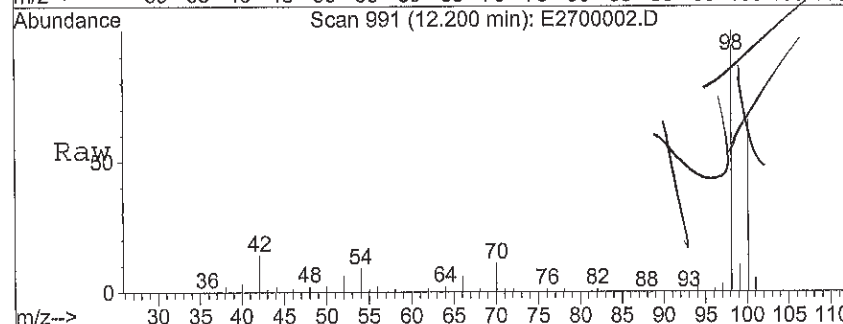
#35
 Dibromomethane
 Concen: 0.09 ug/L
 RT: 11.00 min Scan# 849
 Delta R.T. -0.21 min
 Lab File: E2700002.D
 Acq: 27 May 2014 9:58 am

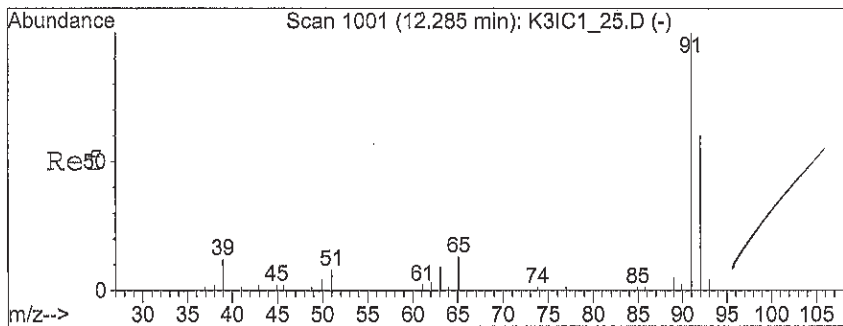
Tgt Ion: 93 Resp: 272
 Ion Ratio Lower Upper
 93 100
 95 0.0 66.2 99.2#
 174 0.0 75.5 113.3#



#40
 (MIBK) 4-Methyl-2-Pentanone
 Concen: 3.21 ug/L
 RT: 12.20 min Scan# 991
 Delta R.T. 0.08 min
 Lab File: E2700002.D
 Acq: 27 May 2014 9:58 am

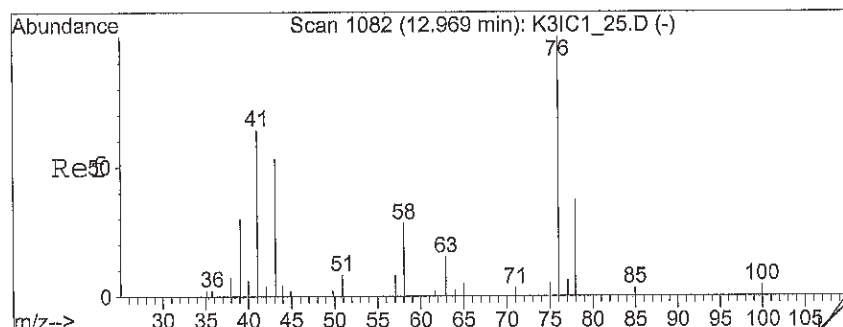
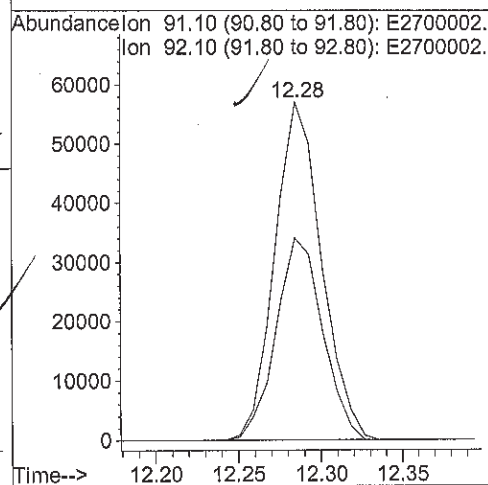
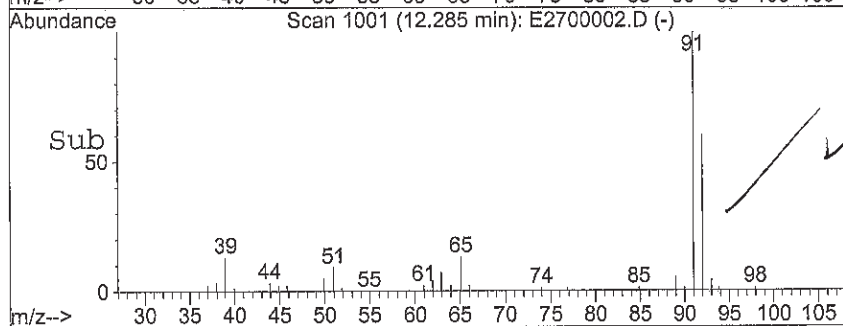
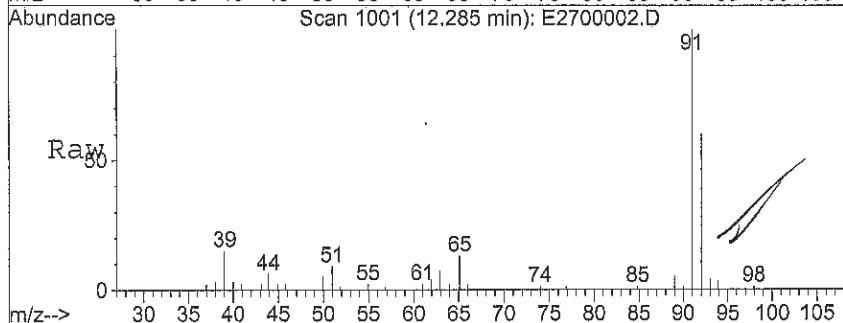
Tgt Ion: 43 Resp: 8455
 Ion Ratio Lower Upper
 43 100
 58 124.4 0.0 0.0#
 85 0.0 0.0 0.0
 100 12154.2 0.0 0.0#





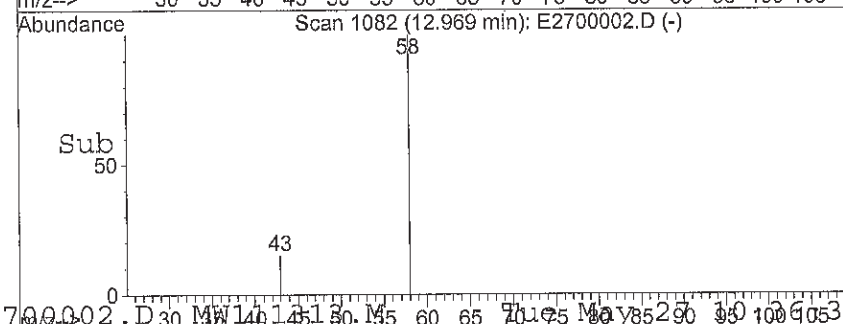
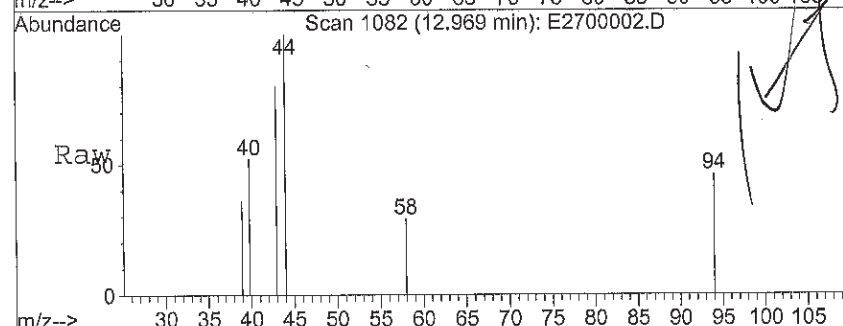
#41
Toluene
Concen: 6.25 ug/L
RT: 12.28 min Scan# 1001
Delta R.T. -0.00 min
Lab File: E2700002.D
Acq: 27 May 2014 9:58 am

Tgt Ion: 91 Resp: 112464
Ion Ratio Lower Upper
91 100
92 59.5 47.4 71.0



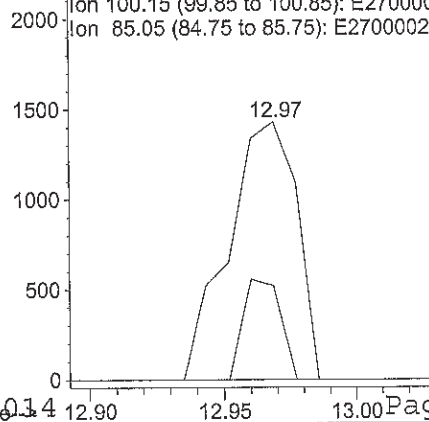
#46
2-Hexanone
Concen: 0.88 ug/L
RT: 12.97 min Scan# 1082
Delta R.T. -0.00 min
Lab File: E2700002.D
Acq: 27 May 2014 9:58 am

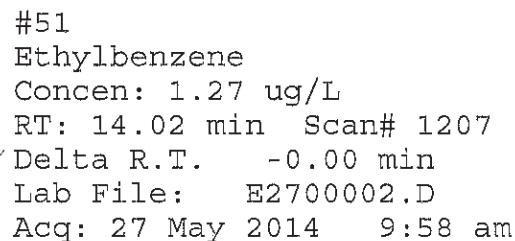
Tgt Ion: 43 Resp: 2548
Ion Ratio Lower Upper
43 100
58 21.4 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#



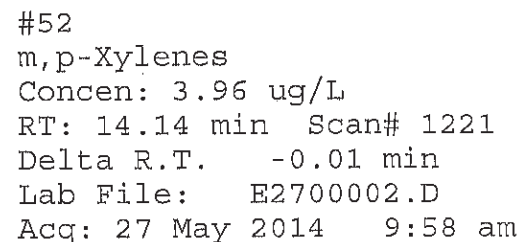
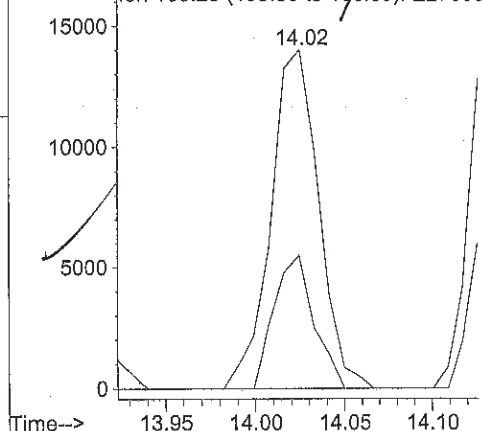
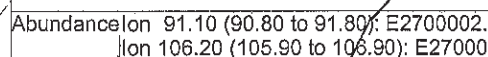
Abundance

Ion 43.00 (42.70 to 43.70): E2700002.
Ion 58.10 (57.80 to 58.80): E2700002.
Ion 100.15 (99.85 to 100.85): E2700002.
Ion 85.05 (84.75 to 85.75): E2700002.

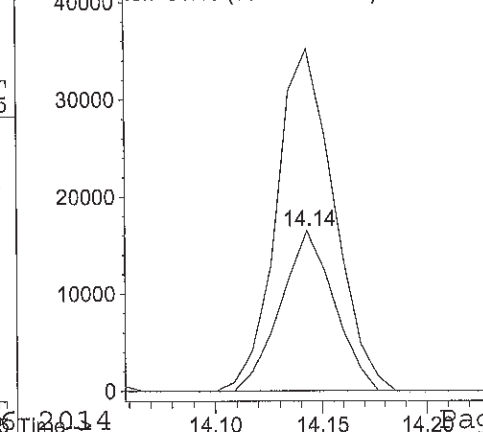
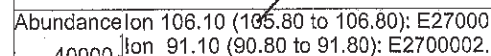


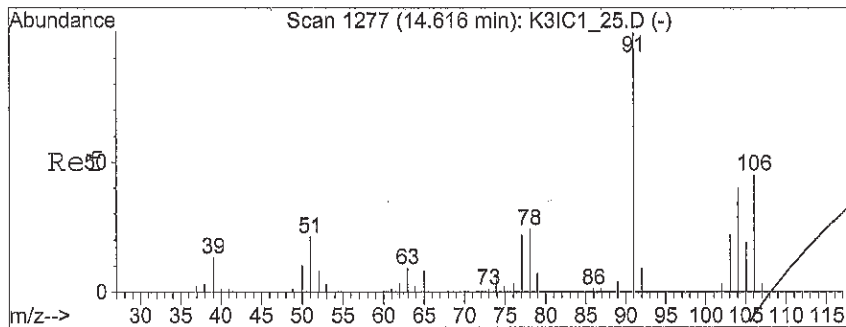


Tgt Ion:	91	Resp:	26025
Ion	Ratio	Lower	Upper
91	100		
106	32.6	23.5	35.3



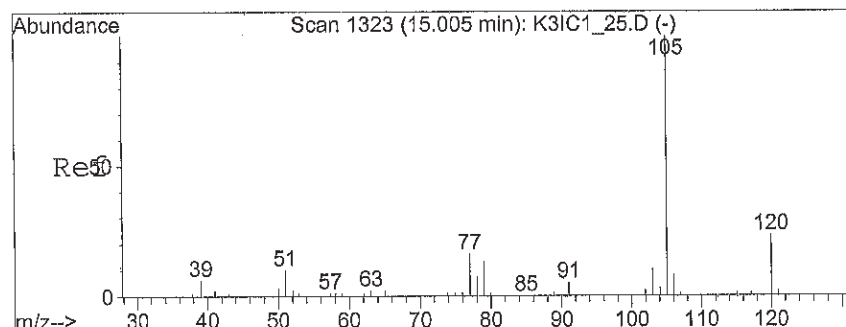
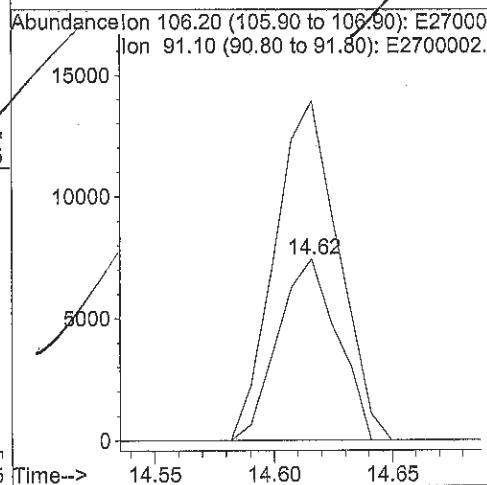
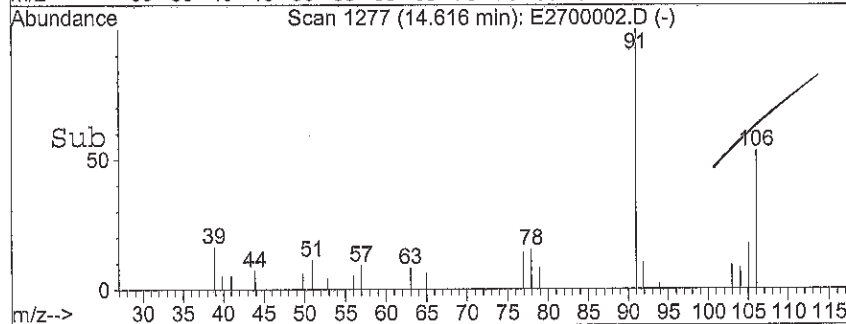
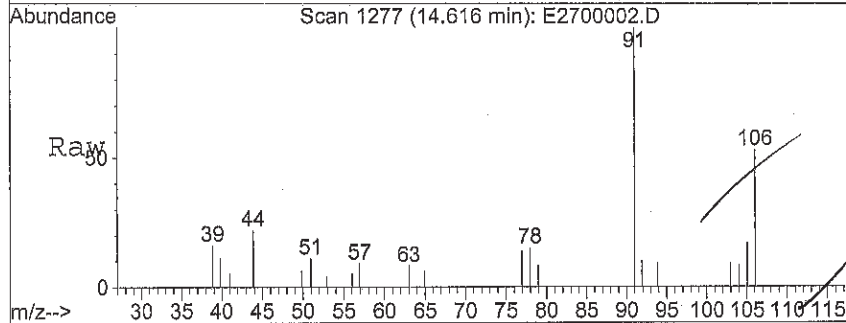
Tgt	Ion:106	Resp:	28793
Ion	Ratio	Lower	Upper
106	100		
91	229.2	177.1	265.7





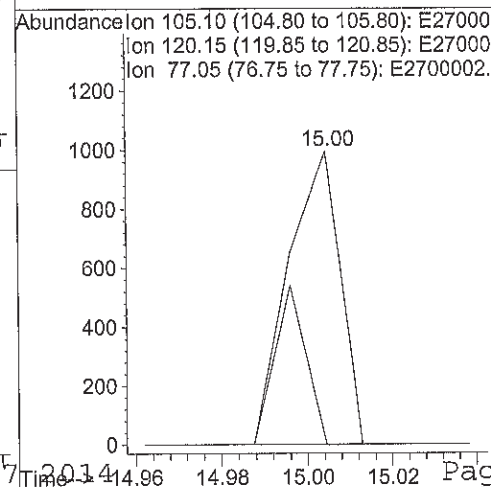
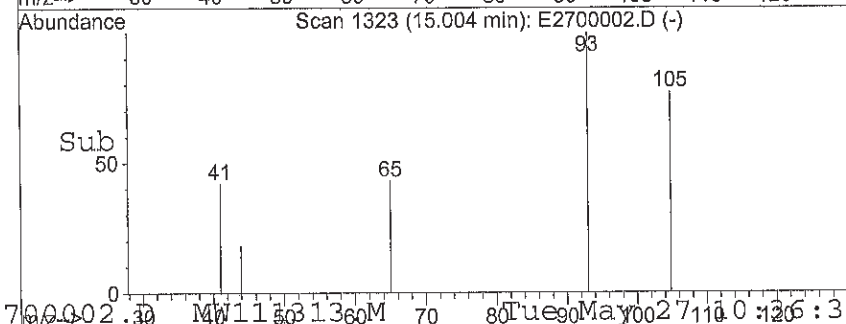
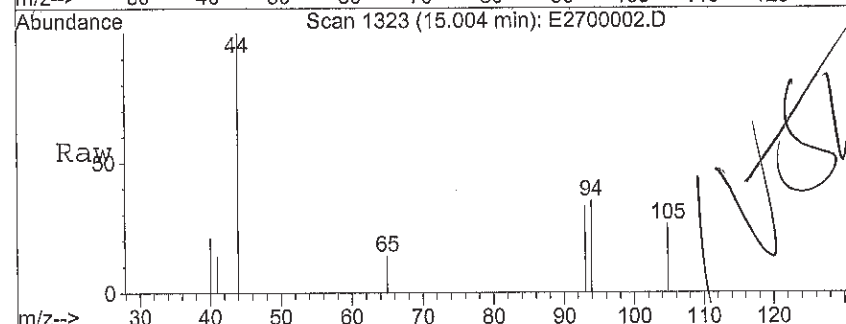
#53
o-Xylene
Concen: 1.79 ug/L
RT: 14.62 min Scan# 1277
Delta R.T. -0.00 min
Lab File: E2700002.D
Acq: 27 May 2014 9:58 am

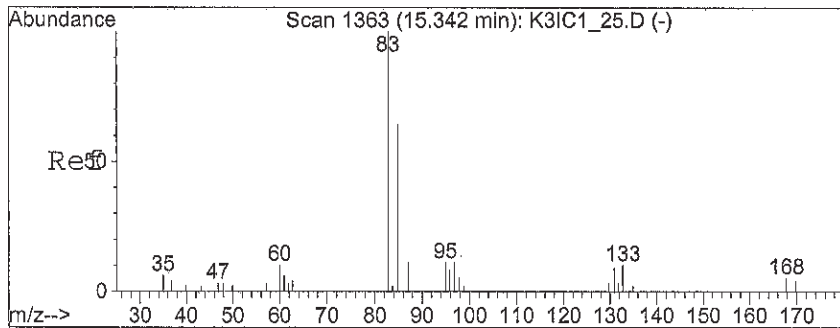
Tgt Ion:106 Resp: 12886
Ion Ratio Lower Upper
106 100
91 199.8 179.0 268.6



#56
Isopropylbenzene
Concen: 0.04 ug/L
RT: 15.00 min Scan# 1323
Delta R.T. -0.00 min
Lab File: E2700002.D
Acq: 27 May 2014 9:58 am

Tgt Ion:105 Resp: 835
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 32.8 13.1 19.7#





#60

1,1,2,2-Tetrachloroethane

Concen: 0.23 ug/L

RT: 15.40 min Scan# 1370

Delta R.T. 0.06 min

Lab File: E2700002.D

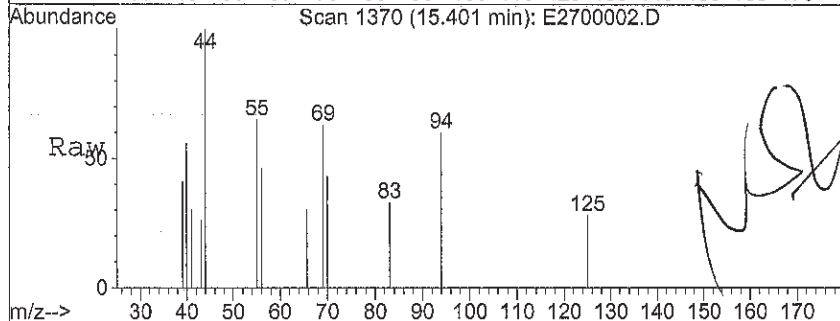
Acq: 27 May 2014 9:58 am

Tgt Ion: 83 Resp: 1132

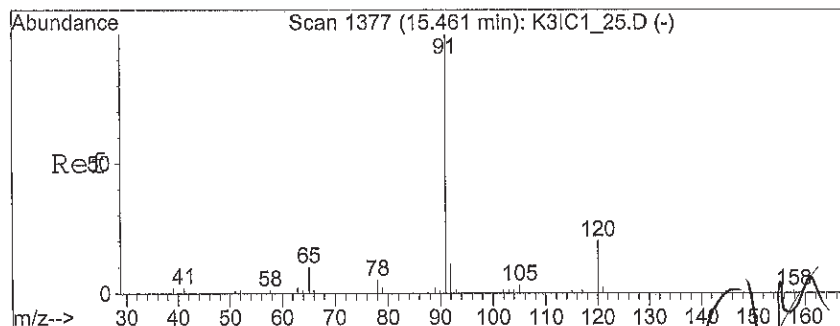
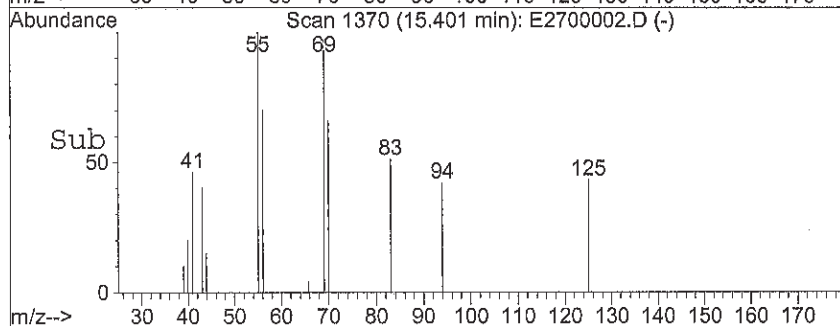
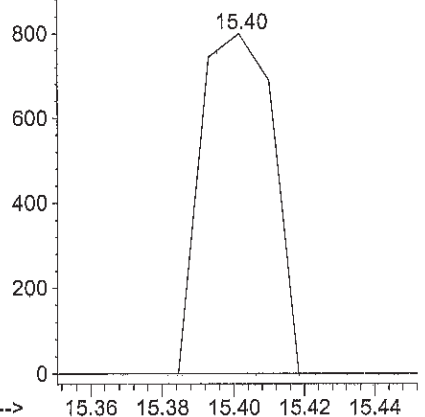
Ion Ratio Lower Upper

83 100

85 0.0 51.2 76.8#



Abundance Ion 83.00 (82.70 to 83.70): E2700002.
Ion 84.95 (84.65 to 85.65): E2700002.



#62

n-Propylbenzene

Concen: 0.08 ug/L

RT: 15.46 min Scan# 1377

Delta R.T. -0.00 min

Lab File: E2700002.D

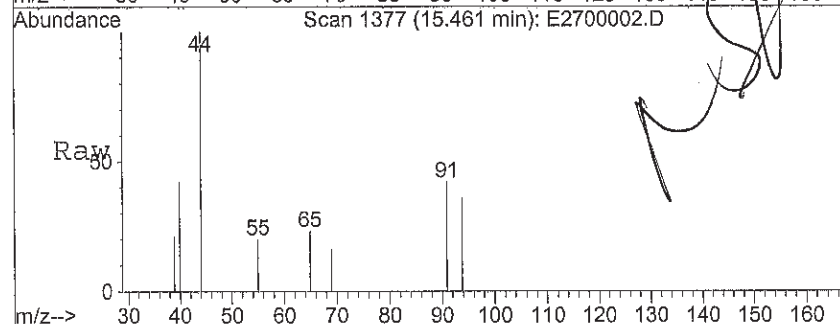
Acq: 27 May 2014 9:58 am

Tgt Ion: 91 Resp: 2233

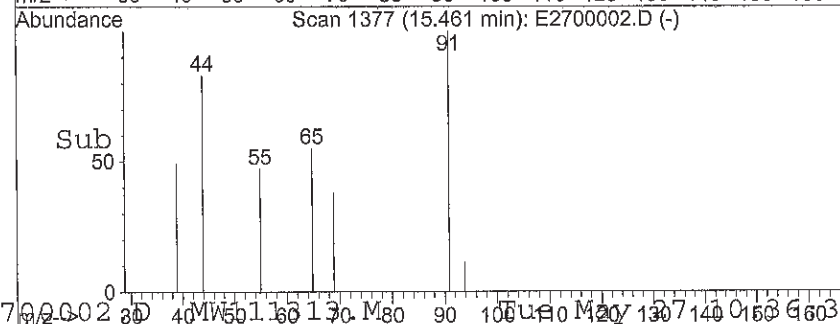
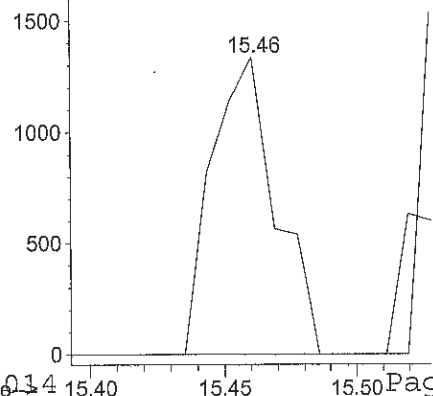
Ion Ratio Lower Upper

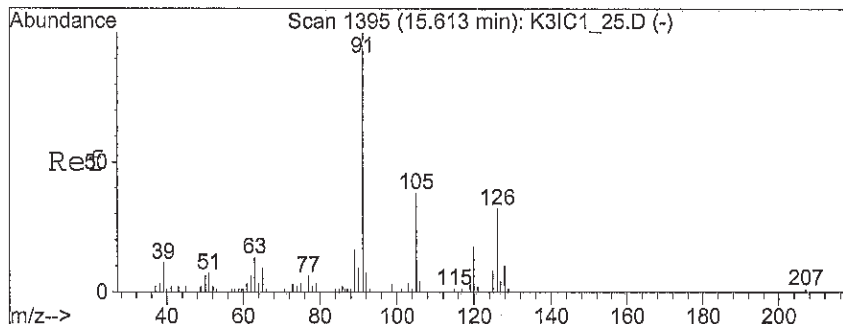
91 100

120 0.0 16.1 24.1#



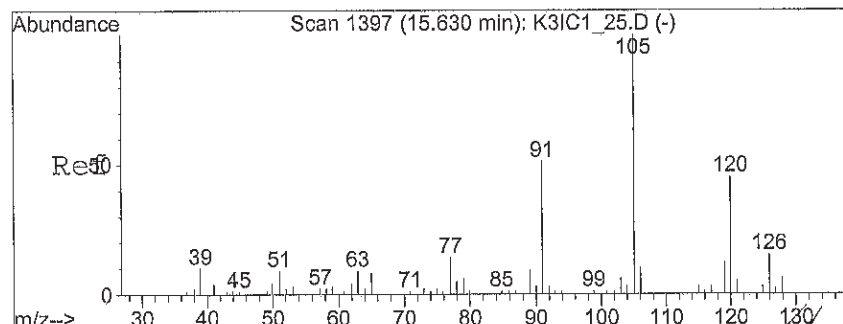
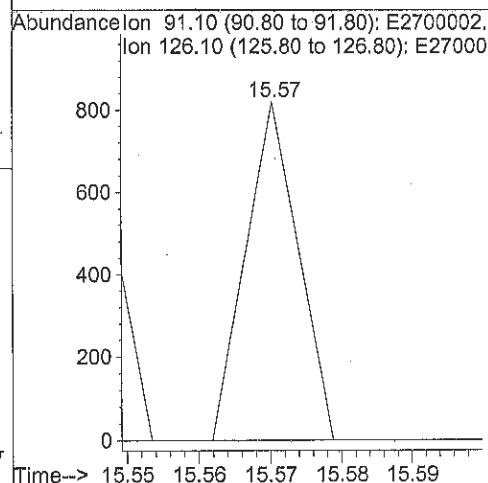
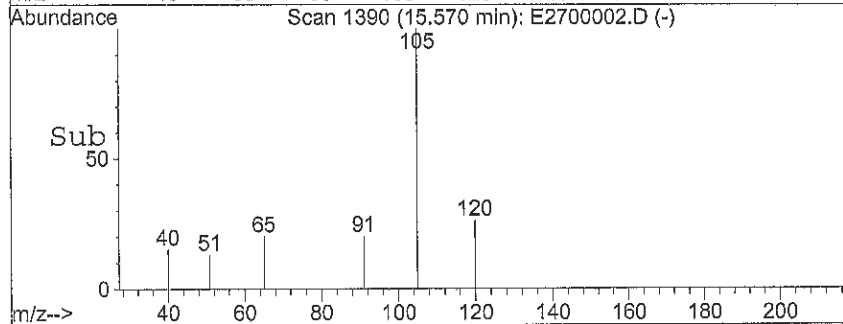
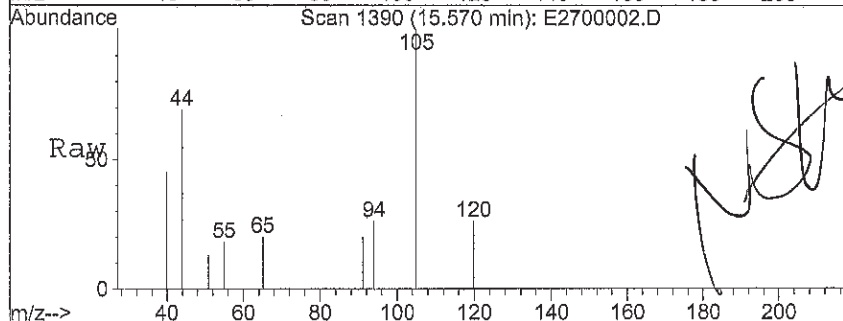
Abundance Ion 91.10 (90.80 to 91.80): E2700002.
Ion 120.15 (119.85 to 120.85): E2700002.





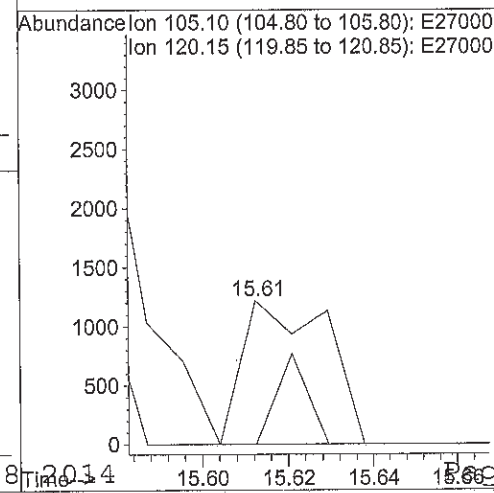
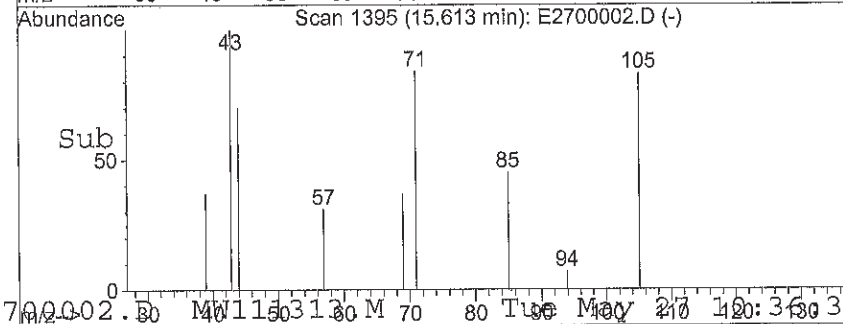
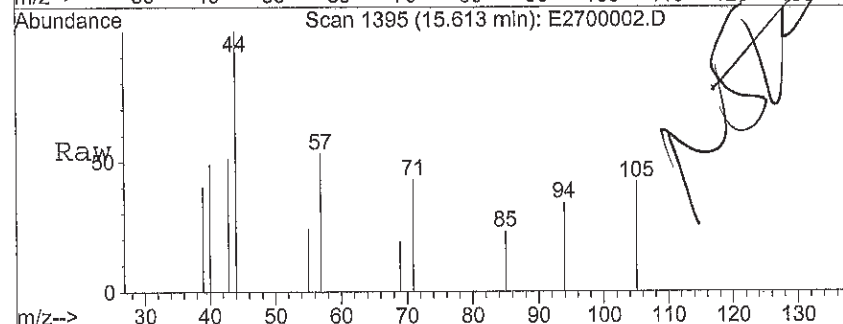
#63
 2-Chlorotoluene
 Concen: 0.02 ug/L
 RT: 15.57 min Scan# 1390
 Delta R.T. -0.04 min
 Lab File: E2700002.D
 Acq: 27 May 2014 9:58 am

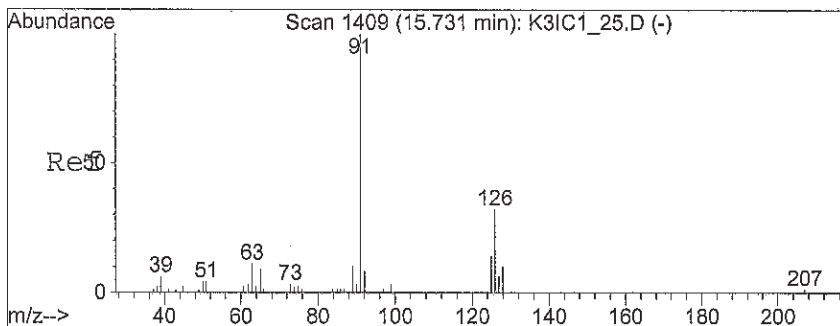
Tgt Ion: 91 Resp: 416
 Ion Ratio Lower Upper
 91 100
 126 0.0 24.0 36.0#



#64
 1,3,5-Trimethylbenzene
 Concen: 0.10 ug/L
 RT: 15.61 min Scan# 1395
 Delta R.T. -0.02 min
 Lab File: E2700002.D
 Acq: 27 May 2014 9:58 am

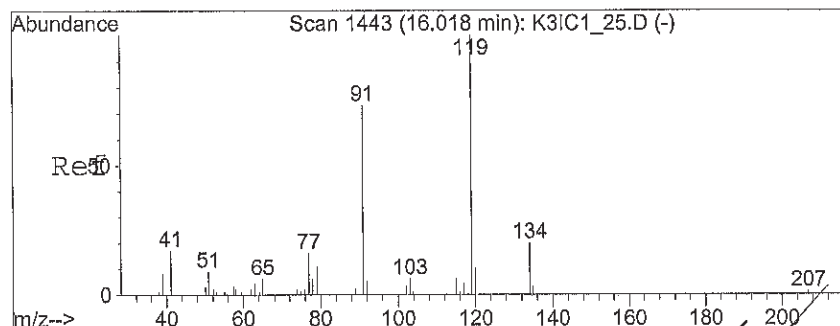
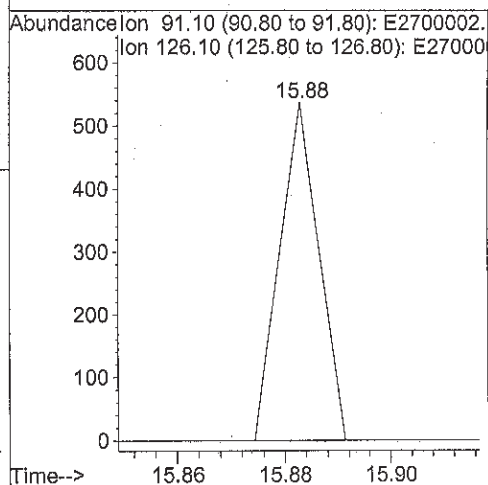
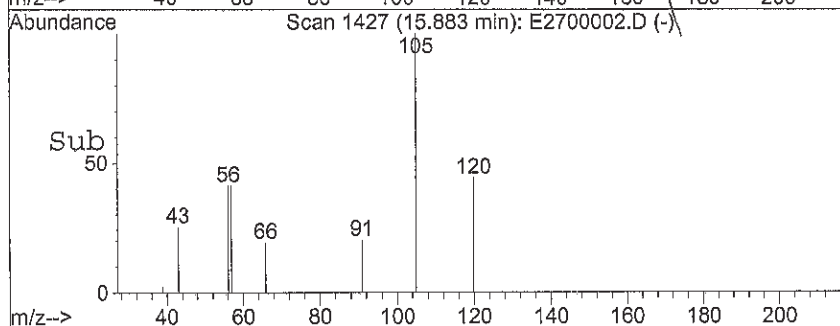
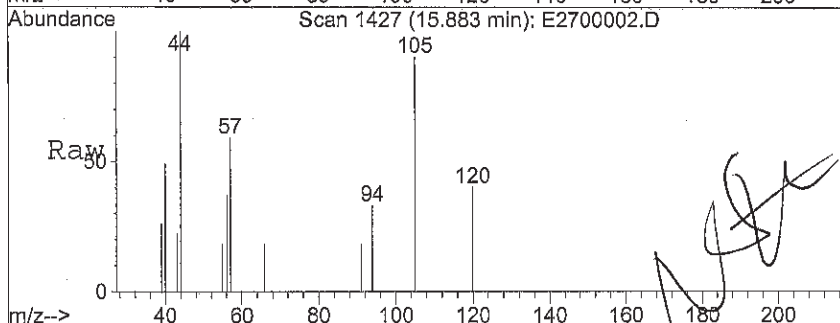
Tgt Ion: 105 Resp: 1666
 Ion Ratio Lower Upper
 105 100
 120 23.4 36.4 54.6#





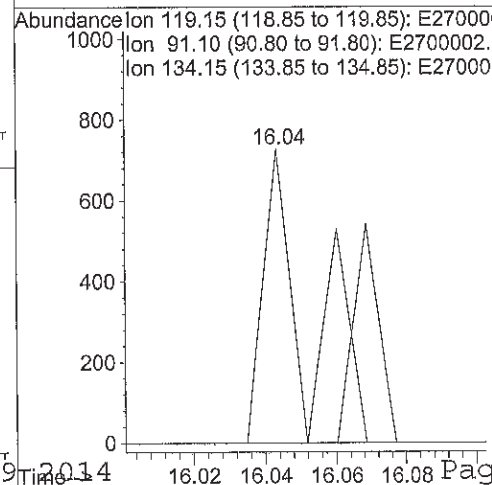
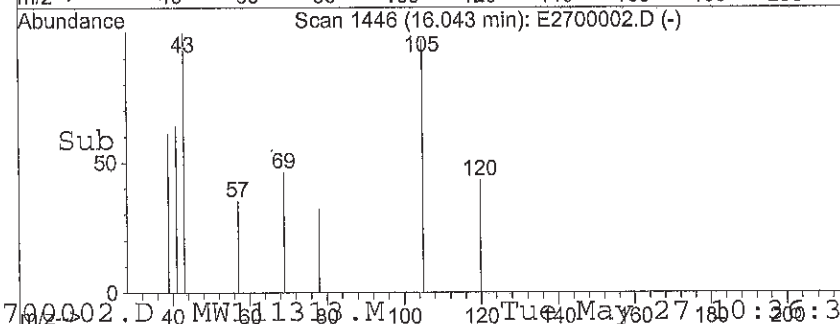
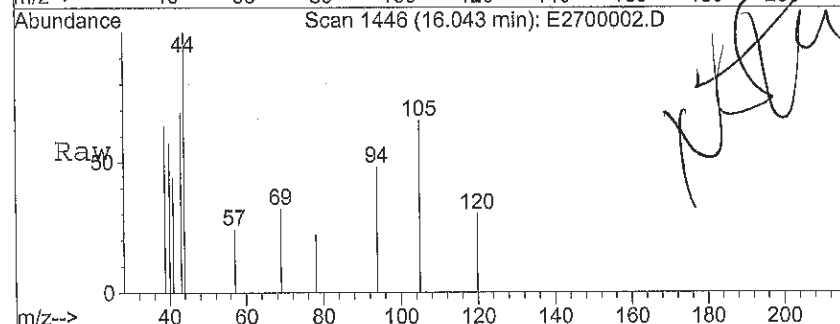
#65
4-Chlorotoluene
Concen: 0.02 ug/L
RT: 15.88 min Scan# 1427
Delta R.T. 0.15 min
Lab File: E2700002.D
Acq: 27 May 2014 9:58 am

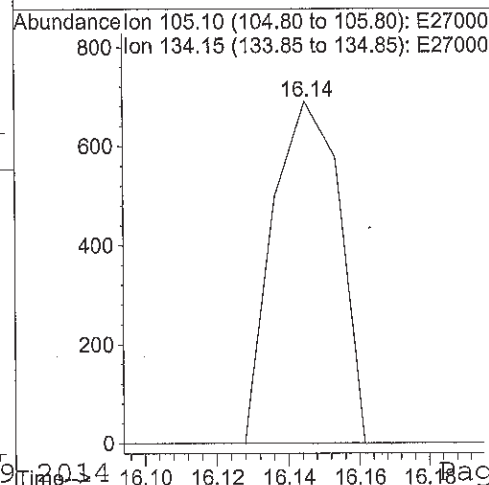
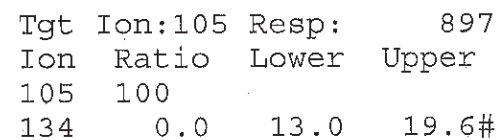
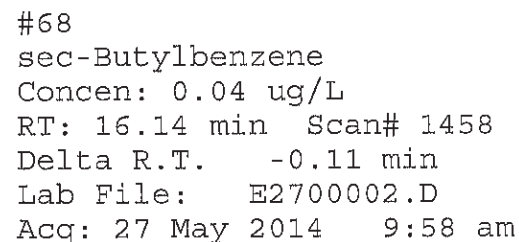
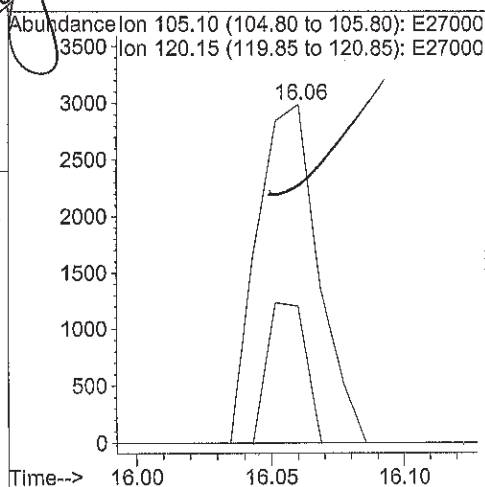
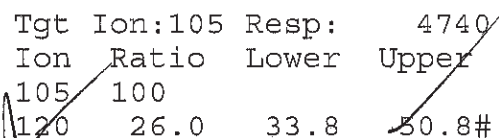
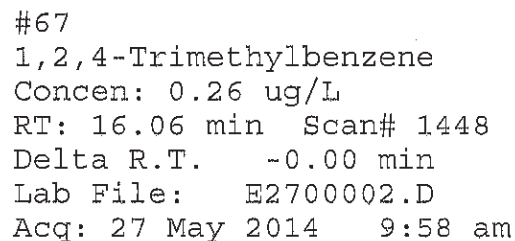
Tgt Ion: 91 Resp: 272
Ion Ratio Lower Upper
91 100
126 0.0 24.6 36.8#

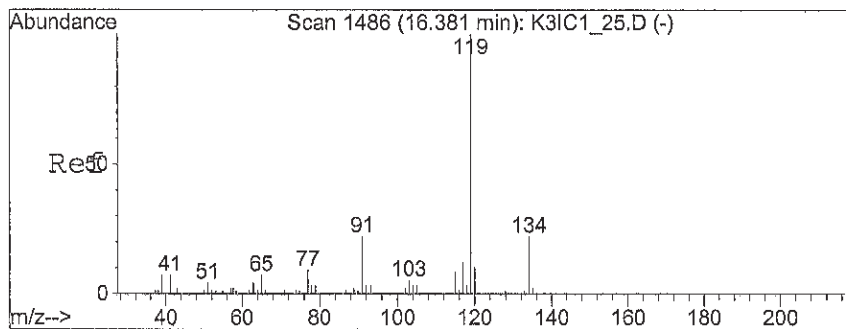


#66
tert-Butylbenzene
Concen: 0.04 ug/L
RT: 16.04 min Scan# 1446
Delta R.T. 0.03 min
Lab File: E2700002.D
Acq: 27 May 2014 9:58 am

Tgt Ion: 119 Resp: 637
Ion Ratio Lower Upper
119 100
91 0.0 56.3 84.5#
134 0.0 16.1 24.1#







#69

p-Isopropyltoluene

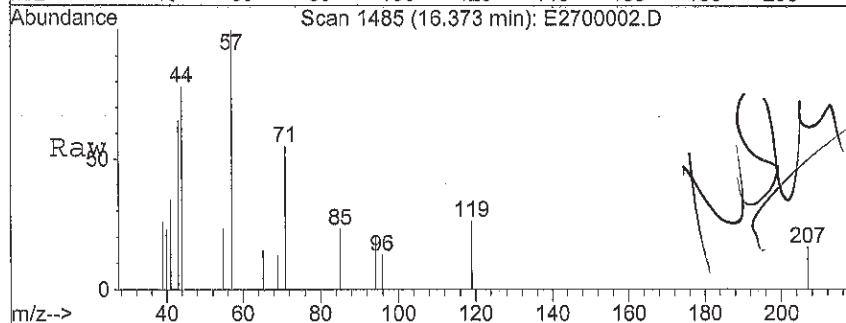
Concen: 0.07 ug/L

RT: 16.37 min Scan# 1485

Delta R.T. -0.01 min

Lab File: E2700002.D

Acq: 27 May 2014 9:58 am



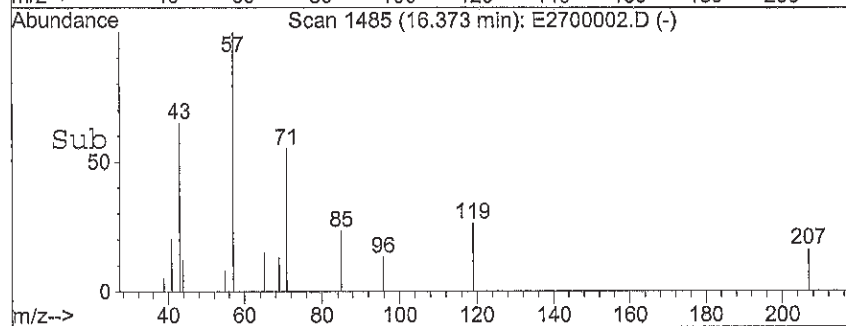
Tgt Ion:119 Resp: 1234

Ion Ratio Lower Upper

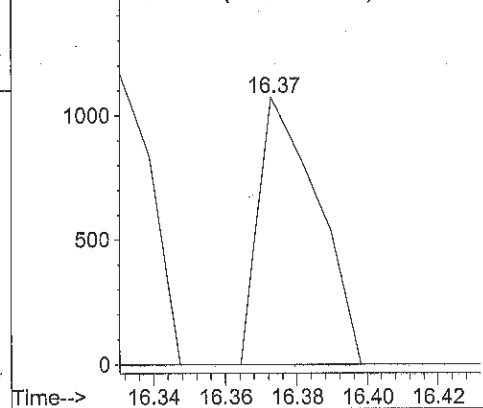
119 100

134 0.0 17.4 26.2#

91 0.0 19.6 29.4#



Abundance Ion 119.15 (118.85 to 119.85): E2700002.D
Ion 134.15 (133.85 to 134.85): E2700002.D
Ion 91.10 (90.80 to 91.80): E2700002.D



Data File : C:\HPCHEM\1\DATA\052714L3\E2700002.D

Vial: 1

Acq On : 27 May 2014 9:58 am

Operator: DN

Sample : 3E42701-02

Inst : GC/MS Ins

Misc : 100cc SVL-502-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 10:36 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1799866	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.91	117	1320042	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	691378	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	494253	10.56	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	84.48%
3) Chloroform-d (SU6)	9.18	84	813936	12.12	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	96.96%
4) Methylene Chloride-d2 (SU5)	7.08	86	463039	11.80	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	94.40%
5) 1,2-Dichloroethane-d4 (SU2)	9.89	65	491526	15.37	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	122.96%
6) Benzene-d6 (SU7)	9.93	84	1576905	11.16	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	89.28%
8) Toluene-d8 (SU3)	12.20	98	1520313	12.14	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	97.12%
9) 4-Bromofluorobenzene (SU4)	15.22	95	725194	14.03	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	112.24%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700002.D SS072713.M

Tue May 27 10:36:08 2014

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700002.D

Vial: 1

Acq On : 27 May 2014 9:58 am

Operator: DN

Sample : 3E42701-02

Inst : GC/MS Ins

Misc : 100cc SVL-502-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 10:36 19114

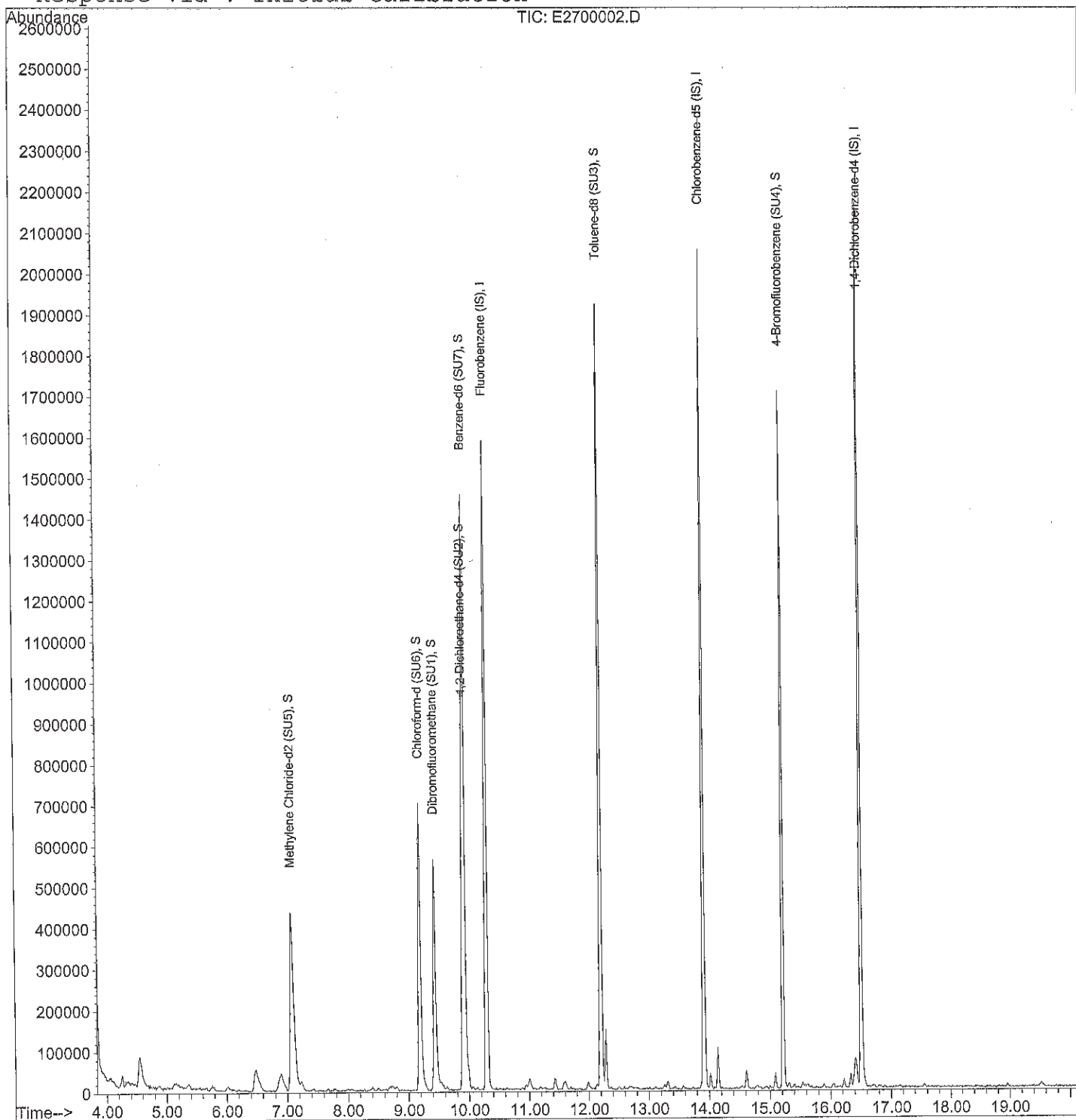
Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E2700004.D

Vial: 3

Acq On : 27 May 2014 10:57 am

Operator: DN

Sample : 3E42701-03

Inst : GC/MS Ins

Misc : 100cc SVL-802-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 11:30 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1745598	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1321272	12.50	ug/L	-0.01
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	716932	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	499272	11.47	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	91.76%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	500264	12.09	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.72%
39) Toluene-d8 (SU3)	12.20	98	1522306	12.35	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	98.80%
58) 4-Bromofluorobenzene (SU4)	15.22	95	713995	13.21	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	105.68%

Target Compounds

						Qvalue
3) (F12) Dichlorodifluorometh	4.13	85	325	0.08	ug/L	# 44
4) Chloromethane	4.42	50	6825	1.11	ug/L	# 41
6) Bromomethane	5.12	96	11107	4.01	ug/L	# 64
7) Chloroethane	5.23	64	573	1.08	ug/L	# 93
11) Acetone	6.47	58	23213	37.30	ug/L	# 68
12) (IPA) Leak Check Compound	6.48	45	109759	523.26	ug/L	# 85
13) Carbon disulfide	6.86	76	91217	6.29	ug/L	# 98
14) Methylene Chloride	7.07	84	6783	1.41	ug/L	# 1
15) (TBA) tert-Butanol	6.92	59	2665	8.95	ug/L	# 77
21) (MEK) 2-Butanone	8.79	72	1128	2.30	ug/L	# 1
24) Chloroform	9.21	83	2633	0.29	ug/L	# 18
25) (ETBE) 2-ethoxy 2-methyl p	8.41	59	449	0.04	ug/L	# 44
29) 1,1-Dichloropropene	9.92	75	284	0.04	ug/L	# 1
31) Benzene	9.98	78	17478	1.06	ug/L	# 81
32) 1,2-Dichloroethane	9.92	62	7790	1.34	ug/L	# 1
34) 1,2-Dichloropropane	11.03	63	609	0.16	ug/L	# 2
40) (MIBK) 4-Methyl-2-Pentanone	12.19	43	7890	2.99	ug/L	# 100
41) Toluene	12.28	91	91885	5.10	ug/L	# 96
46) 2-Hexanone	12.97	43	1334	0.46	ug/L	# 37
51) Ethylbenzene	14.02	91	20349	0.99	ug/L	# 91
52) m,p-Xylenes	14.14	106	20727	2.85	ug/L	# 97
53) o-Xylene	14.61	106	8783	1.22	ug/L	# 93

(#) = qualifier out of range (m) = manual integration

E2700004.D MW111313.M

Tue May 27 11:30:48 2014

Page 1

Data File : C:\HPCHEM\1\DATA\052714L3\E2700004.D

Vial: 3

Acq On : 27 May 2014 10:57 am

Operator: DN

Sample : 3E42701-03

Inst : GC/MS Ins

Misc : 100cc SVL-802-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 11:30 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
54) Styrene	14.62	104	1905	-0.69	ug/L #	1
56) Isopropylbenzene	15.00	105	1060	0.05	ug/L #	55
60) 1,1,2,2-Tetrachloroethane	15.40	83	313	0.06	ug/L #	18
62) n-Propylbenzene	15.45	91	1988	0.07	ug/L #	56
63) 2-Chlorotoluene	15.62	91	552	0.03	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.62	105	710	0.04	ug/L #	31
65) 4-Chlorotoluene	15.62	91	552	0.03	ug/L #	44
67) 1,2,4-Trimethylbenzene	16.05	105	3152	0.17	ug/L #	57
68) sec-Butylbenzene	16.15	105	883	0.04	ug/L #	62
69) p-Isopropyltoluene	16.38	119	1416	0.07	ug/L #	52
72) n-Butylbenzene	16.85	91	272	0.01	ug/L #	30
74) 1,2-Dibromo-3-chloropropan	18.00	75	289	1.23	ug/L #	6

(#) = qualifier out of range (m) = manual integration

E2700004.D MW111313.M

Tue May 27 11:30:49 2014

Page 2

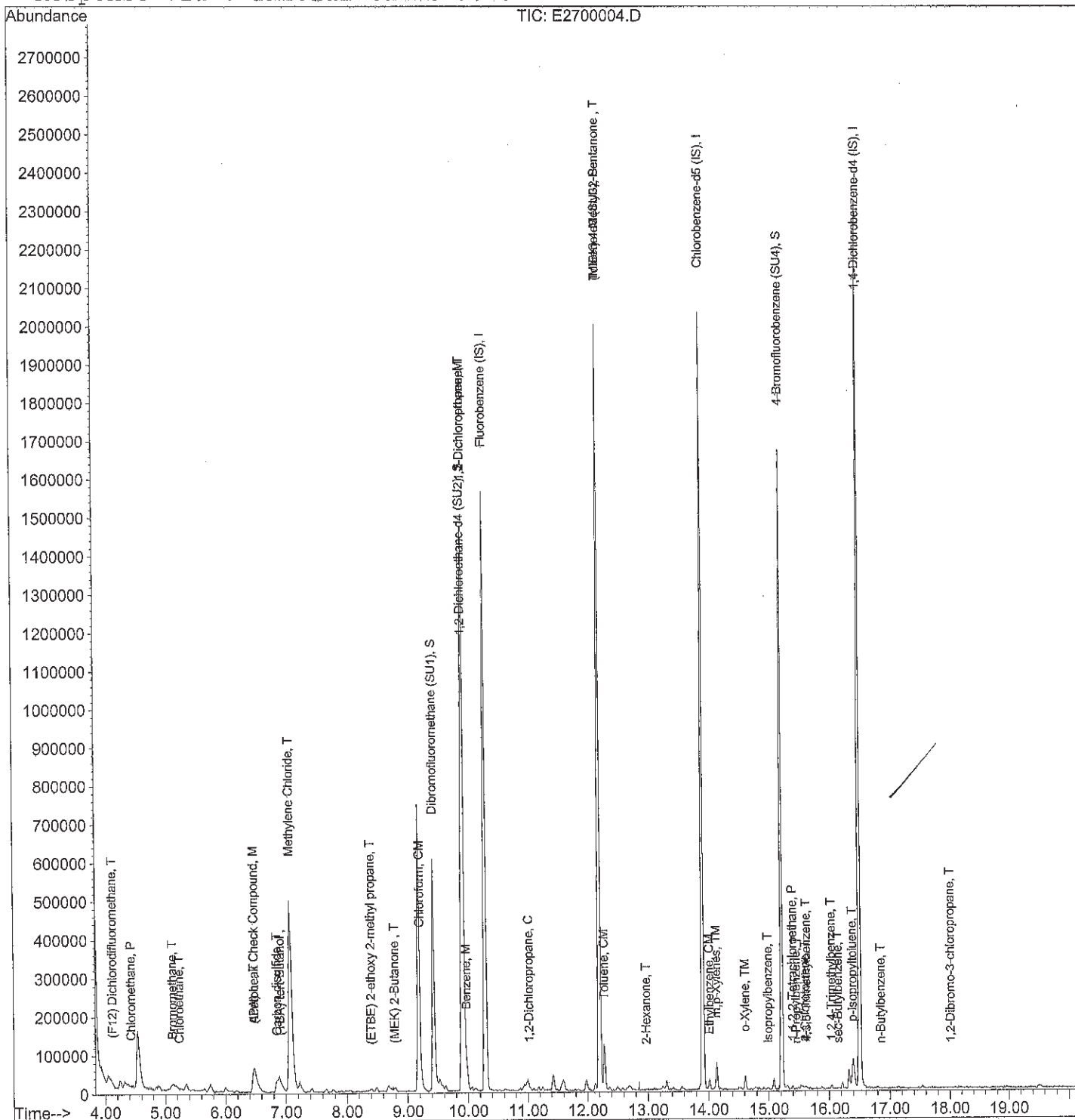
Quantitation Report

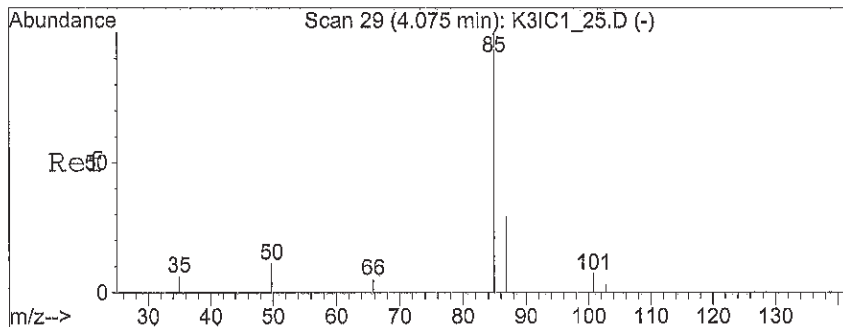
Data File : C:\HPCHEM\1\DATA\052714L3\E2700004.D
Acq On : 27 May 2014 10:57 am
Sample : 3E42701-03
Misc : 100cc SVL-802-SA5D-SV-5.0-6.0
MS Integration Params: rteint.p
Quant Time: May 27 11:30 19114

Vial: 3
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration





#3

(F12) Dichlorodifluoromethane

Concen: 0.08 ug/L

RT: 4.13 min Scan# 36

Delta R.T. 0.05 min

Lab File: E2700004.D

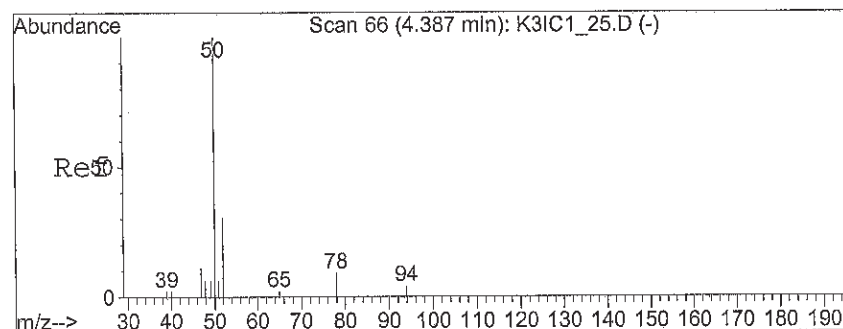
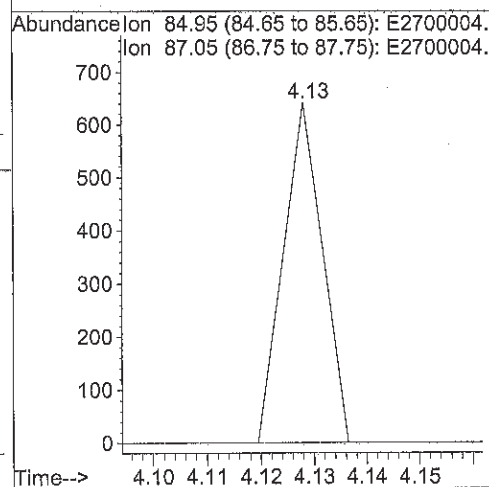
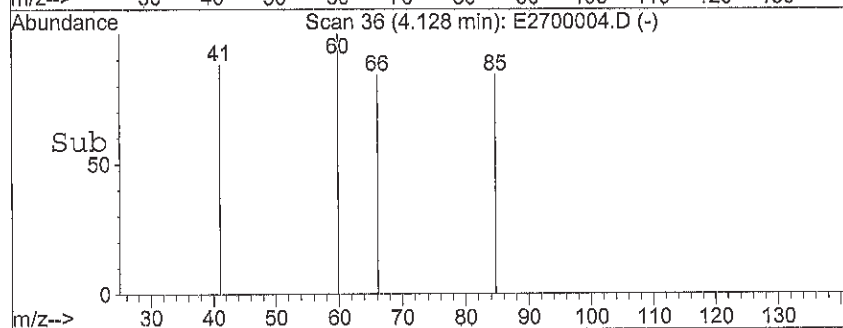
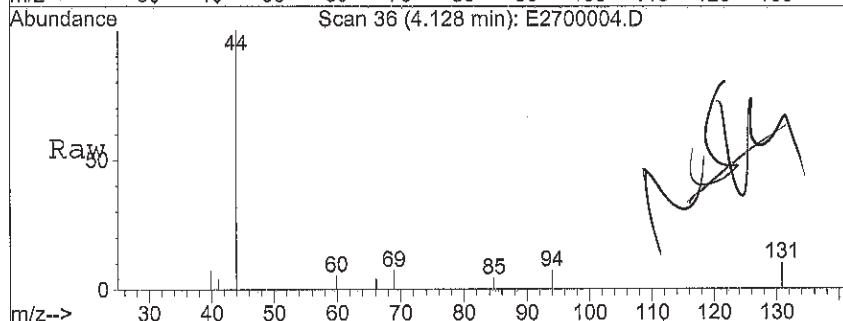
Acq: 27 May 2014 10:57 am

Tgt Ion: 85 Resp: 325

Ion Ratio Lower Upper

85 100

87 0.0 24.6 37.0#



#4

Chloromethane

Concen: 1.11 ug/L

RT: 4.42 min Scan# 71

Delta R.T. 0.04 min

Lab File: E2700004.D

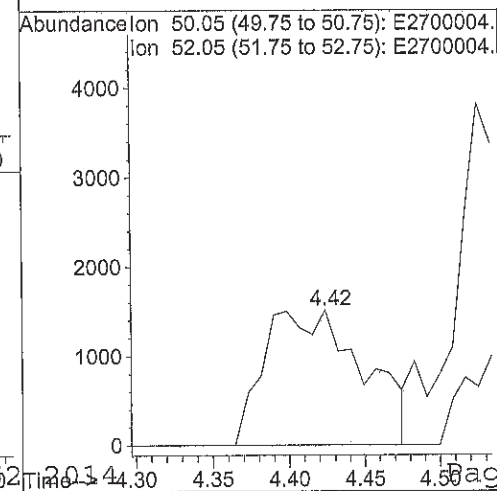
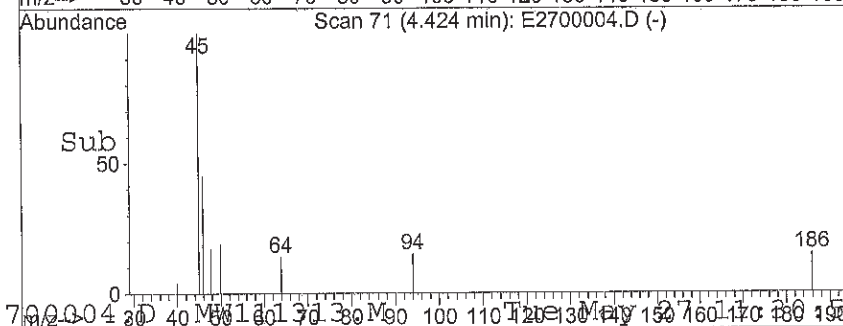
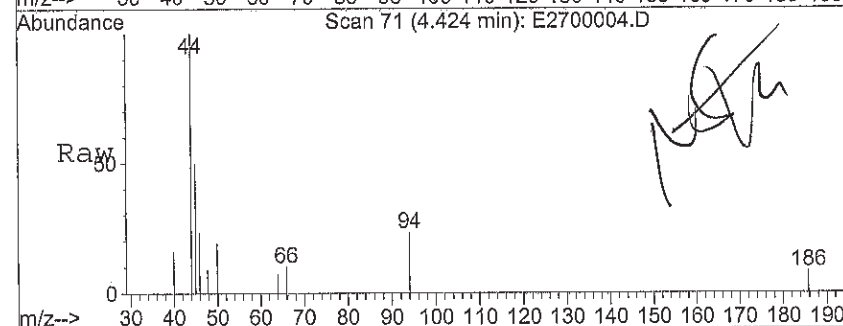
Acq: 27 May 2014 10:57 am

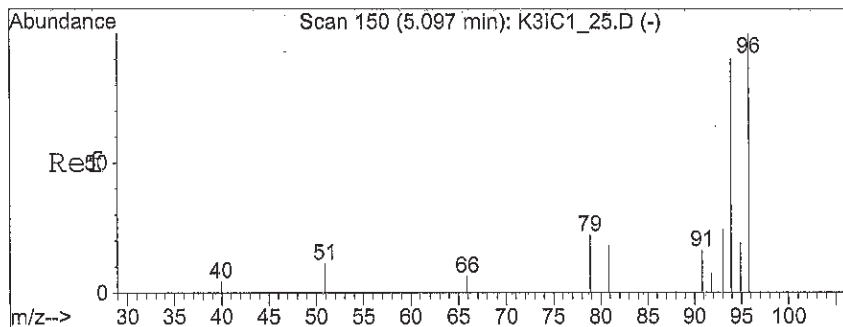
Tgt Ion: 50 Resp: 6825

Ion Ratio Lower Upper

50 100

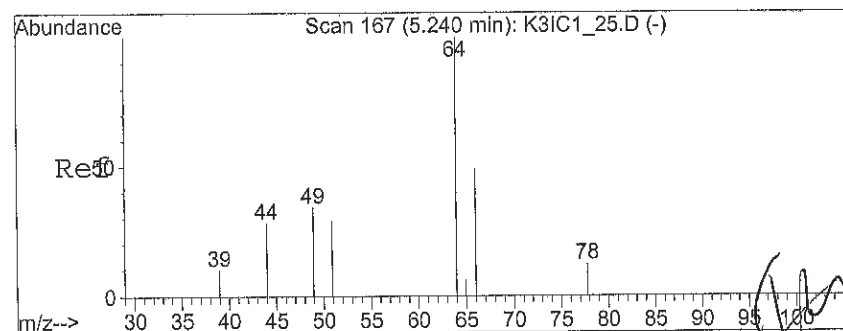
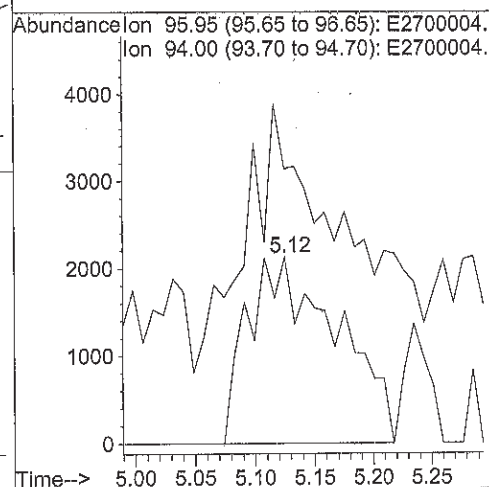
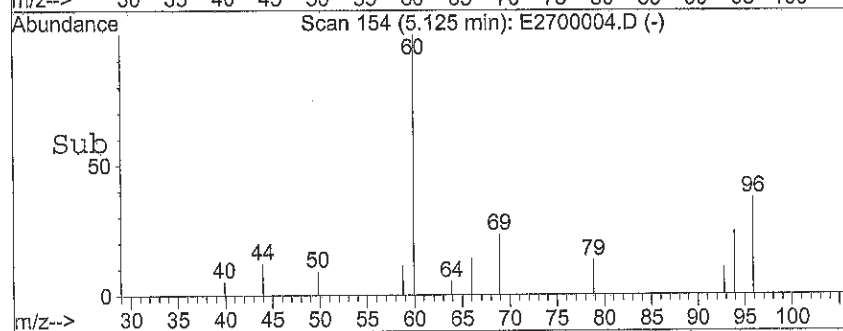
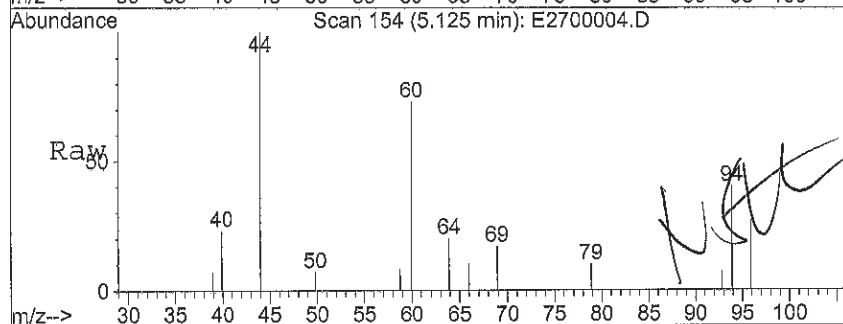
52 0.0 26.9 40.3#





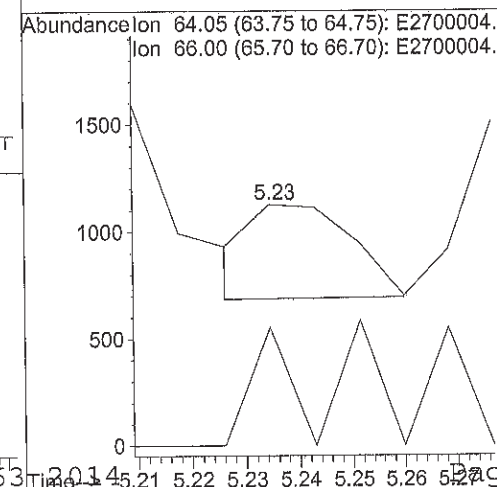
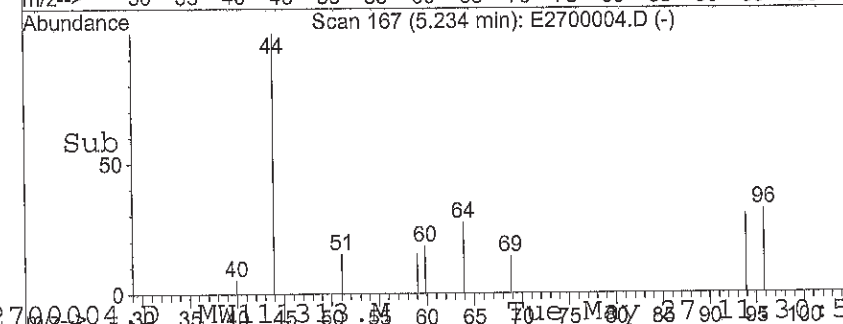
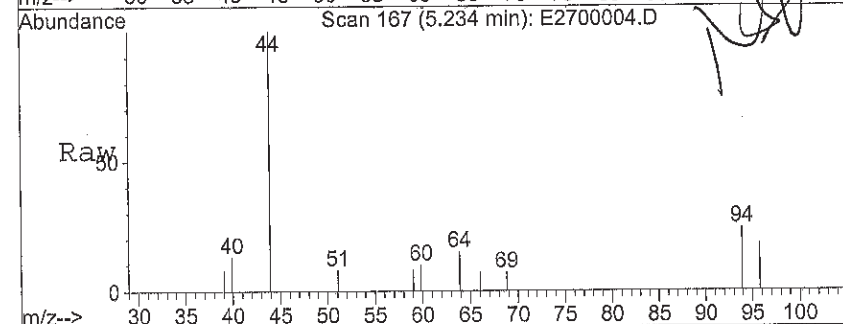
#6
Bromomethane
Concen: 4.01 ug/L
RT: 5.12 min Scan# 154
Delta R.T. 0.03 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

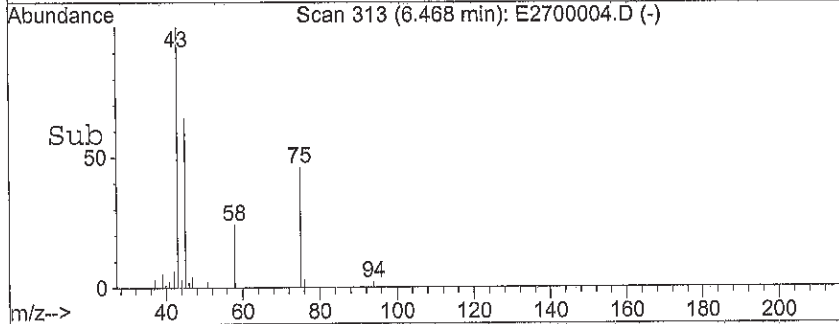
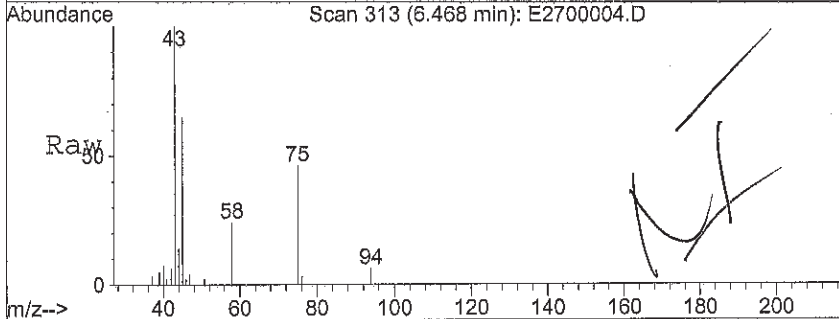
Tgt Ion: 96 Resp: 11107
Ion Ratio Lower Upper
96 100
94 167.7 101.0 151.4#



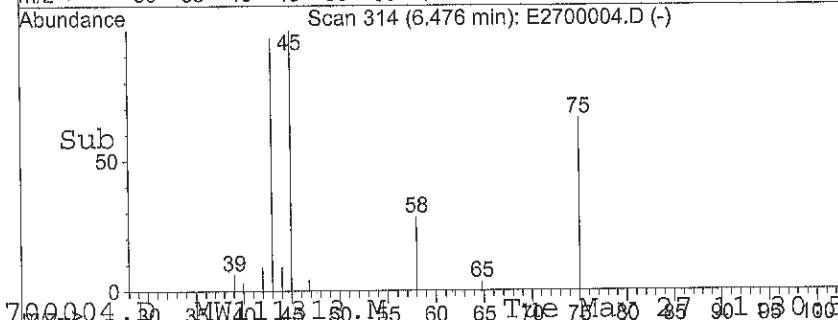
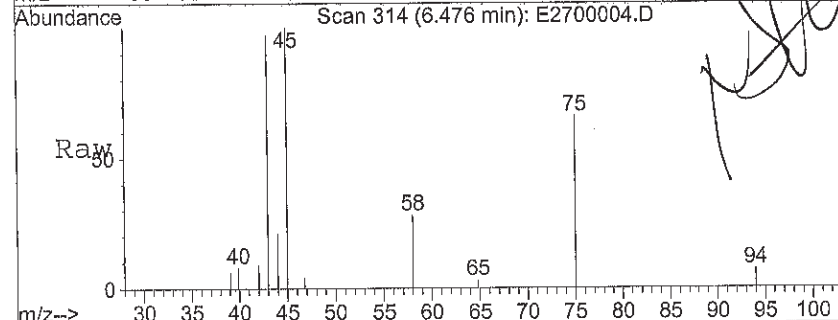
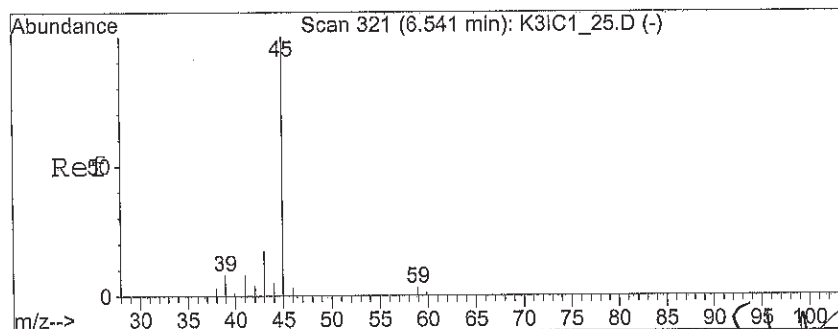
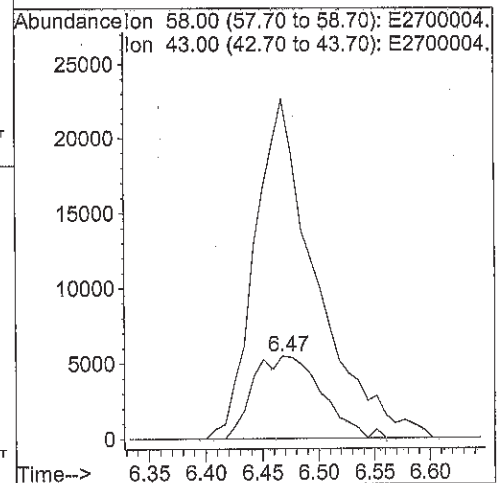
#7
Chloroethane
Concen: 1.08 ug/L
RT: 5.23 min Scan# 167
Delta R.T. -0.01 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

Tgt Ion: 64 Resp: 573
Ion Ratio Lower Upper
64 100
66 49.0 35.4 53.0

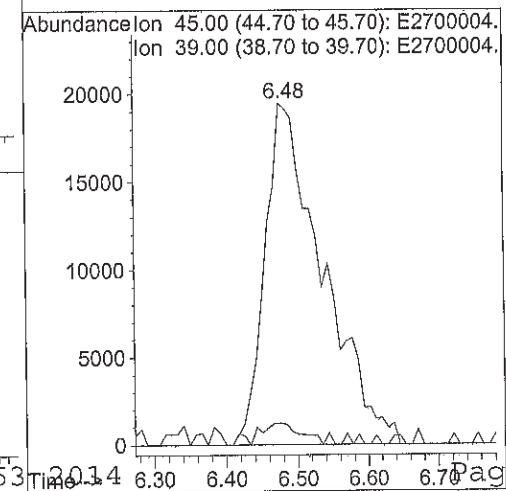


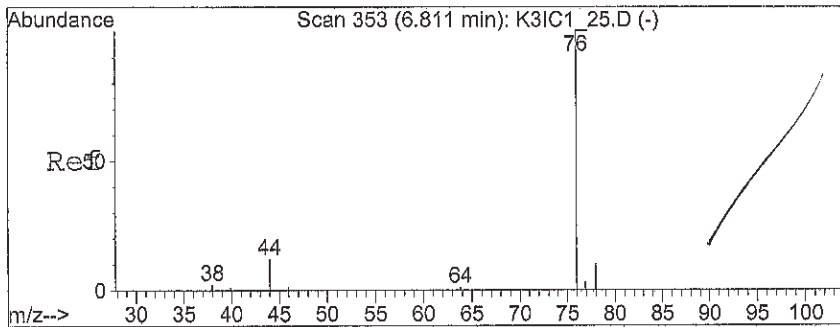


Tgt	Ion: 58	Resp:	23213
Ion	Ratio	Lower	Upper
58	100		
43	369.2	360.9	541.3



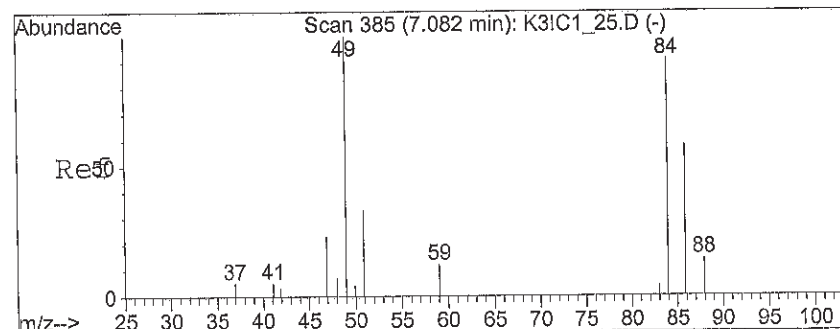
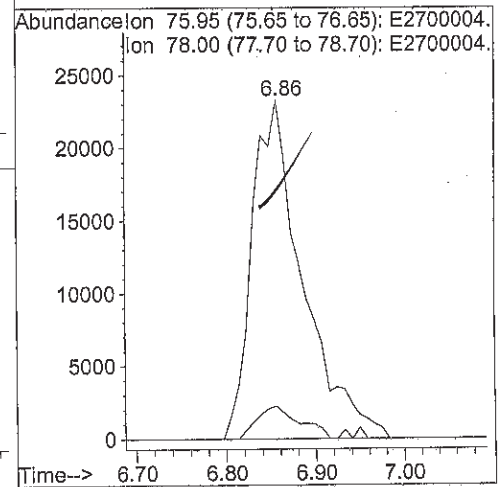
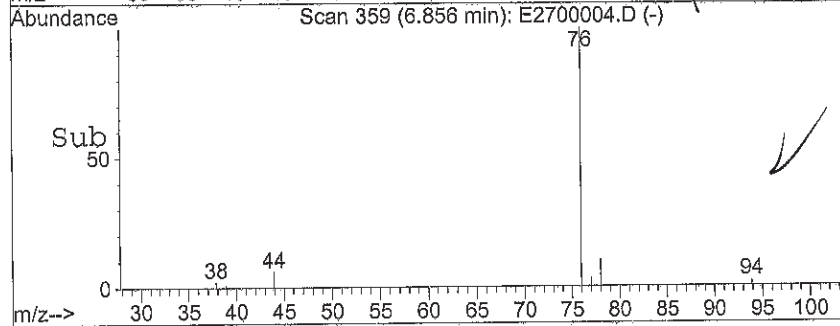
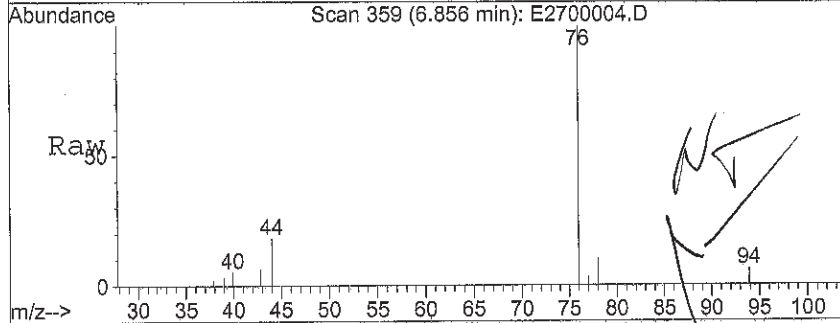
Tgt Ion: 45	Resp: 109759
Ion Ratio	Lower Upper
45 100	
39 4.3	4.9 7.3#





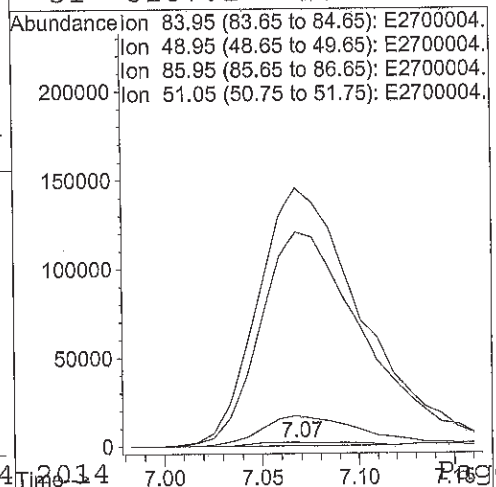
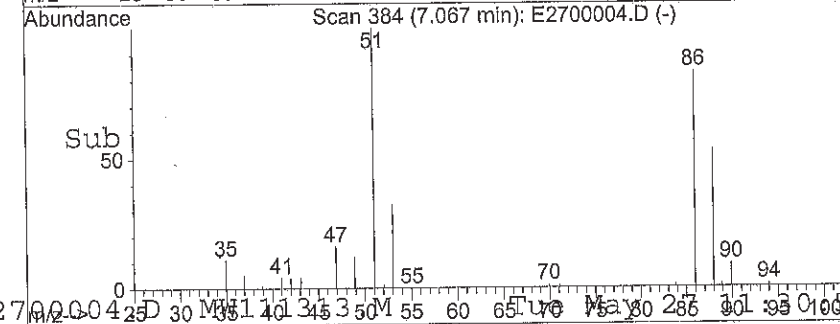
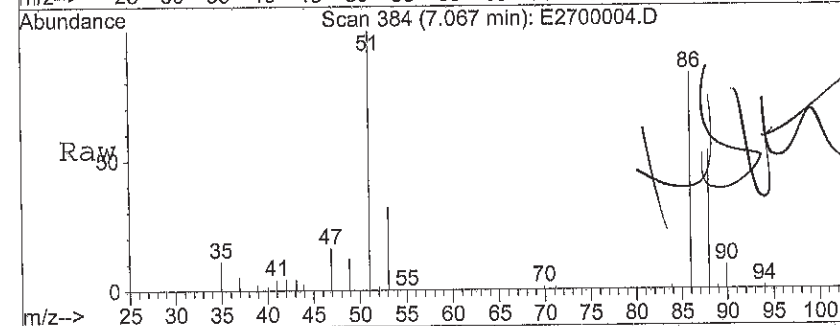
#13
Carbon disulfide
Concen: 6.29 ug/L
RT: 6.86 min Scan# 359
Delta R.T. 0.04 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

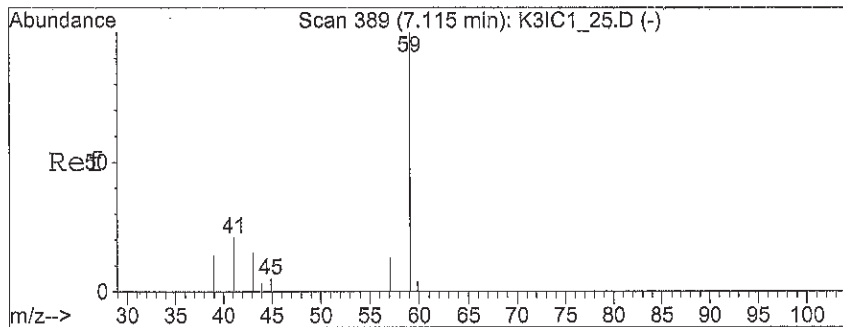
Tgt Ion: 76 Resp: 91217
Ion Ratio Lower Upper
76 100
78 8.2 7.0 10.4



#14
Methylene Chloride
Concen: 1.41 ug/L
RT: 7.07 min Scan# 384
Delta R.T. -0.01 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

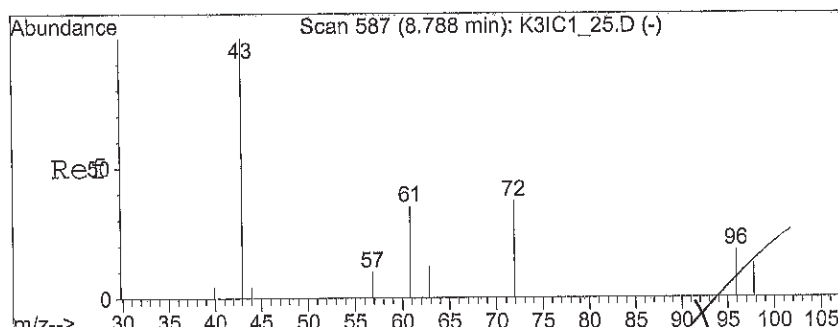
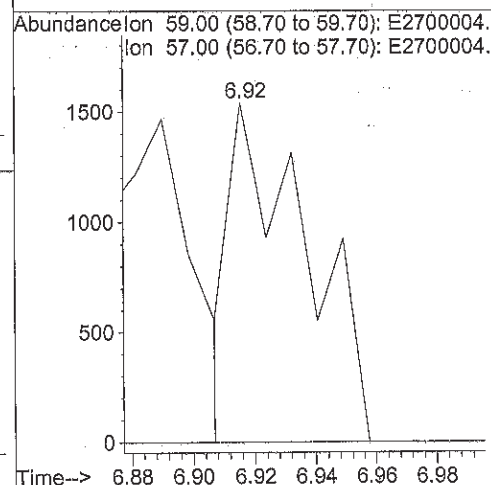
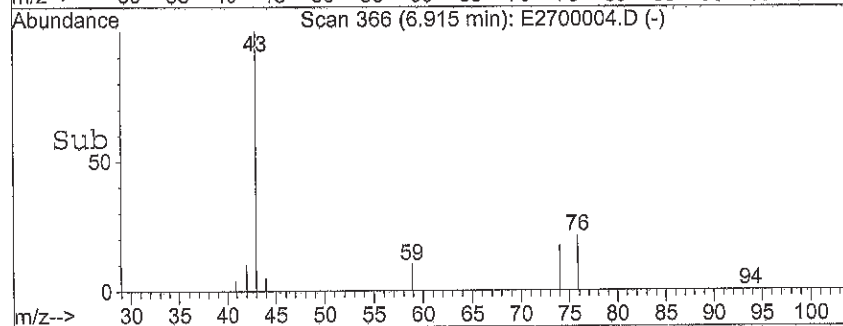
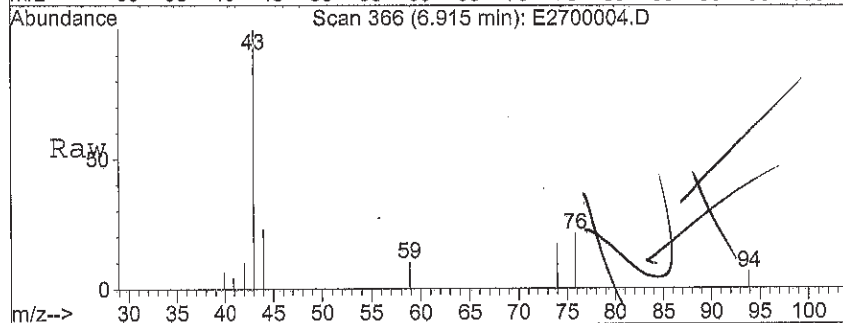
Tgt Ion: 84 Resp: 6783
Ion Ratio Lower Upper
84 100
49 910.6 89.8 134.6#
86 6782.9 51.1 76.7#
51 8167.1 28.5 42.7#





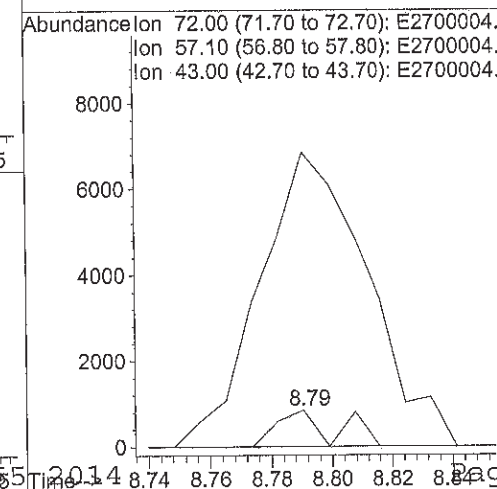
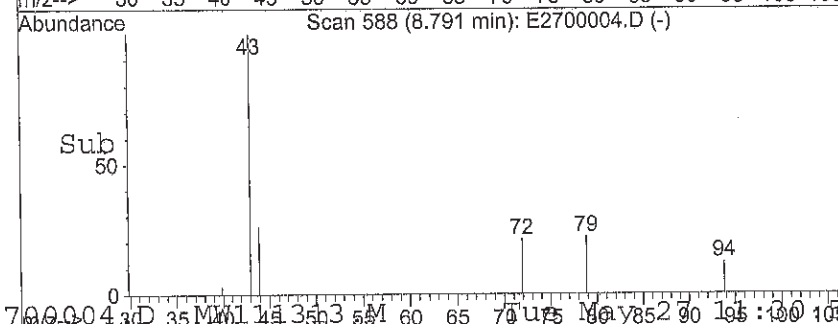
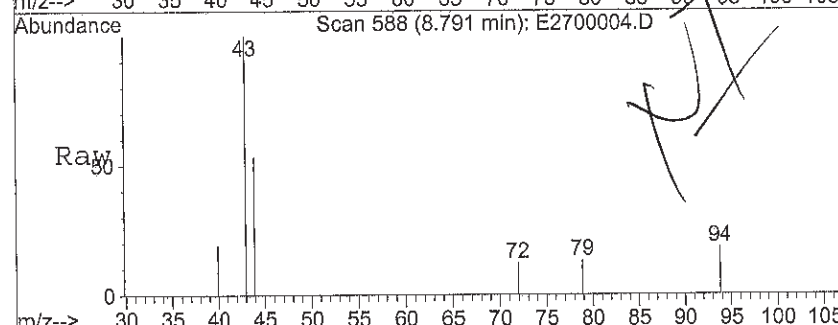
#15
 (TBA) tert-Butanol
 Concen: 8.95 ug/L
 RT: 6.92 min Scan# 366
 Delta R.T. -0.20 min
 Lab File: E2700004.D
 Acq: 27 May 2014 10:57 am

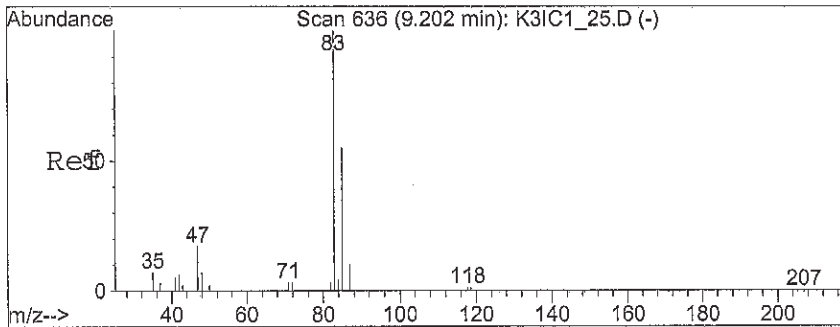
Tgt Ion: 59 Resp: 2665
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#21
 (MEK) 2-Butanone
 Concen: 2.30 ug/L
 RT: 8.79 min Scan# 588
 Delta R.T. 0.00 min
 Lab File: E2700004.D
 Acq: 27 May 2014 10:57 am

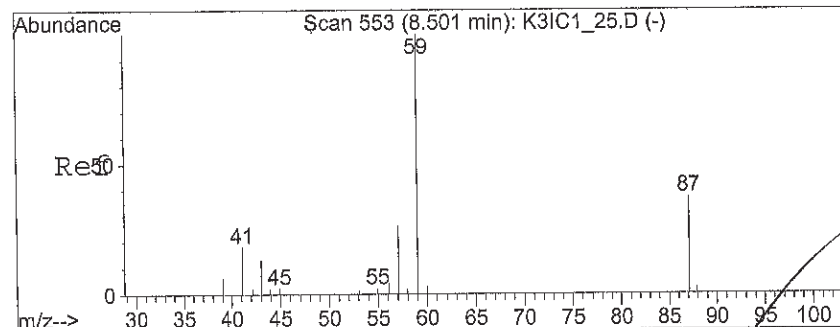
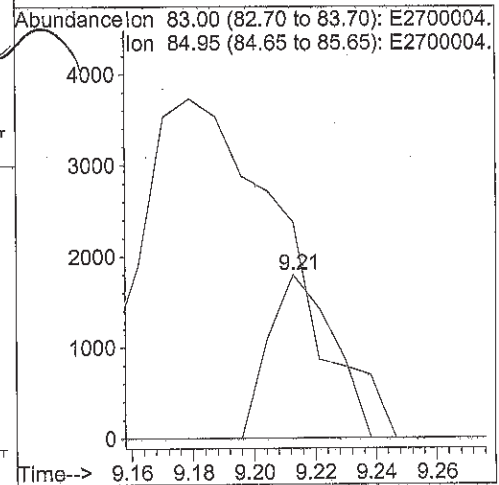
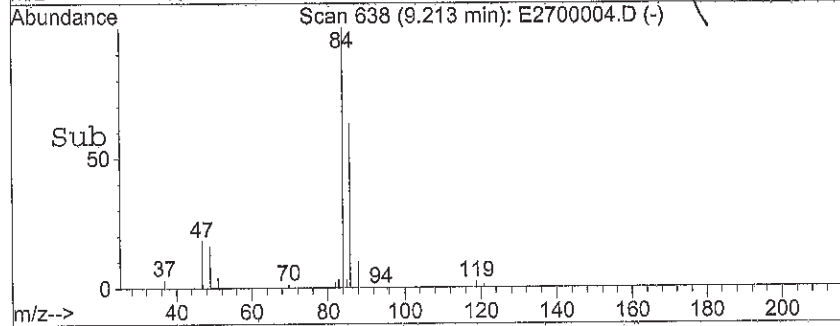
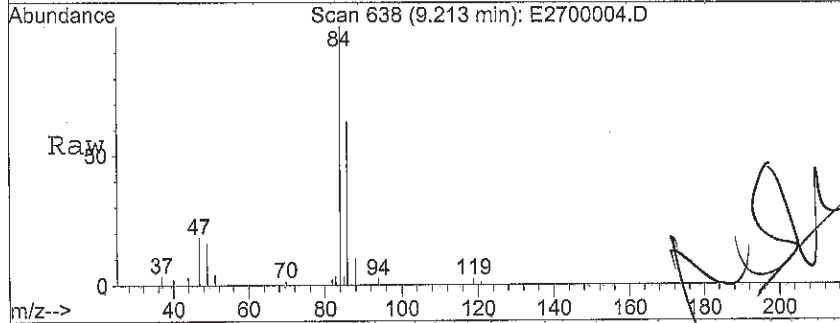
Tgt Ion: 72 Resp: 1128
 Ion Ratio Lower Upper
 72 100
 57 0.0 17.5 26.3#
 43 1499.6 314.2 471.2#





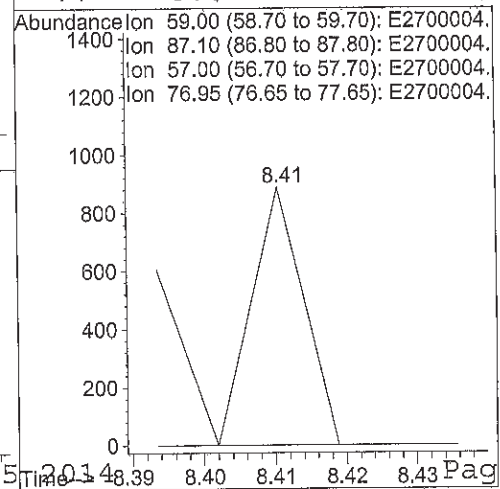
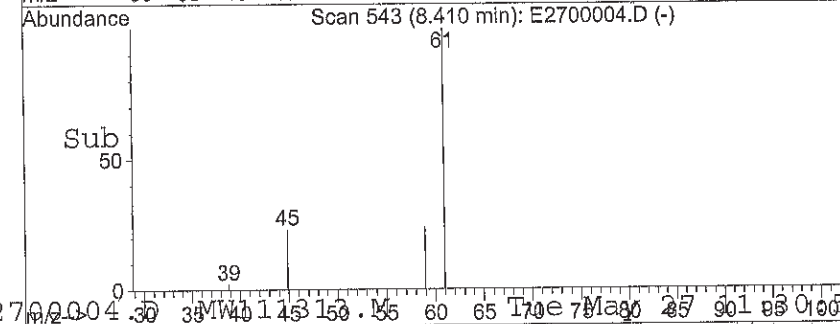
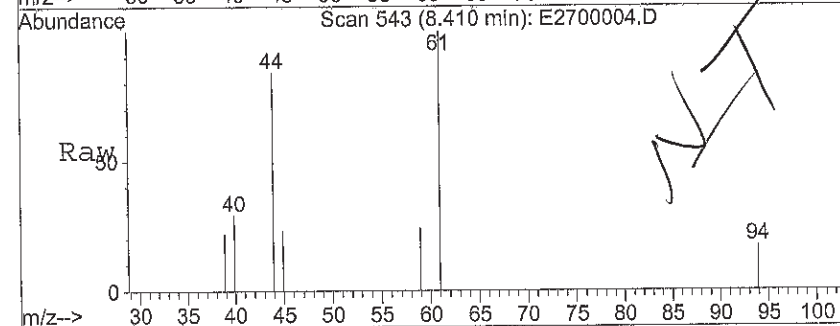
#24
Chloroform
Concen: 0.29 ug/L
RT: 9.21 min Scan# 638
Delta R.T. 0.01 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

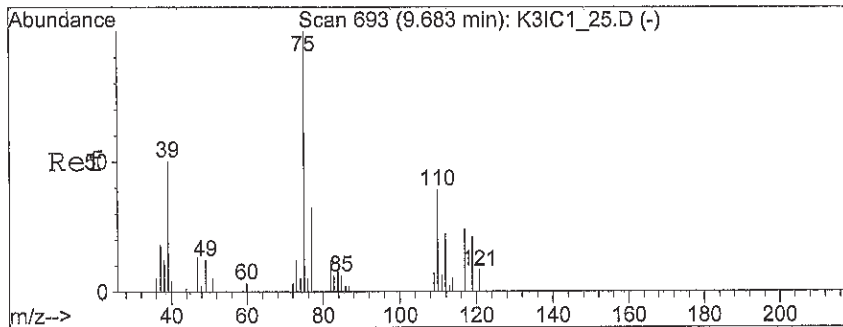
Tgt Ion: 83 Resp: 2633
Ion Ratio Lower Upper
83 100
85 0.0 51.8 77.6#



#25
(ETBE) 2-ethoxy 2-methyl propan
Concen: 0.04 ug/L
RT: 8.41 min Scan# 543
Delta R.T. -0.09 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

Tgt Ion: 59 Resp: 449
Ion Ratio Lower Upper
59 100
87 0.0 27.8 41.8#
57 0.0 19.8 29.6#
77 0.0 0.0 0.0





#29

1,1-Dichloropropene

Concen: 0.04 ug/L

RT: 9.92 min Scan# 722

Delta R.T. 0.24 min

Lab File: E2700004.D

Acq: 27 May 2014 10:57 am

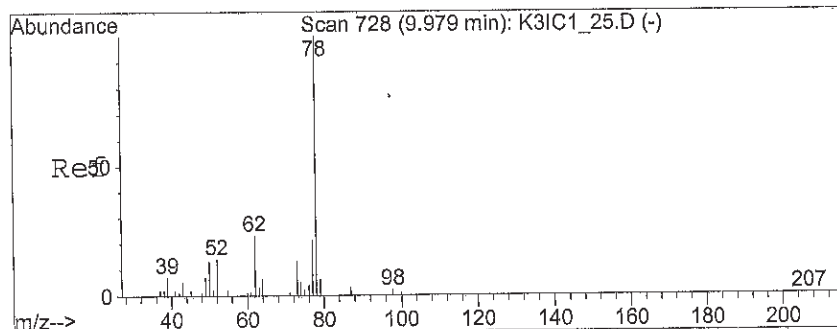
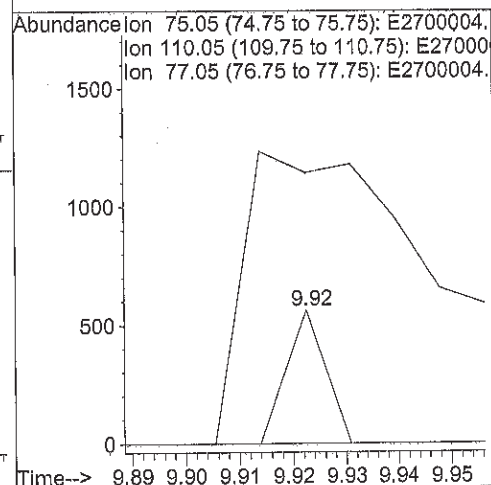
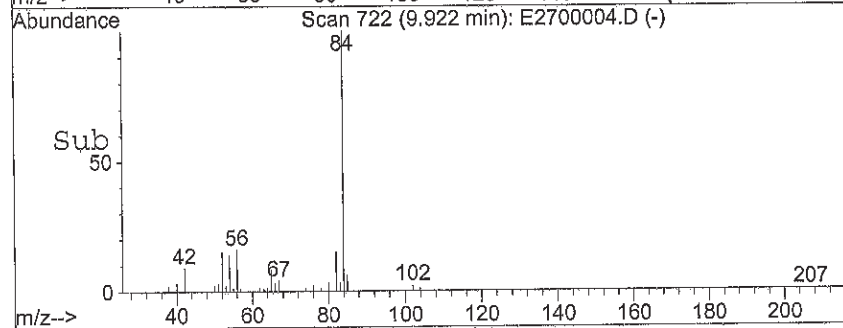
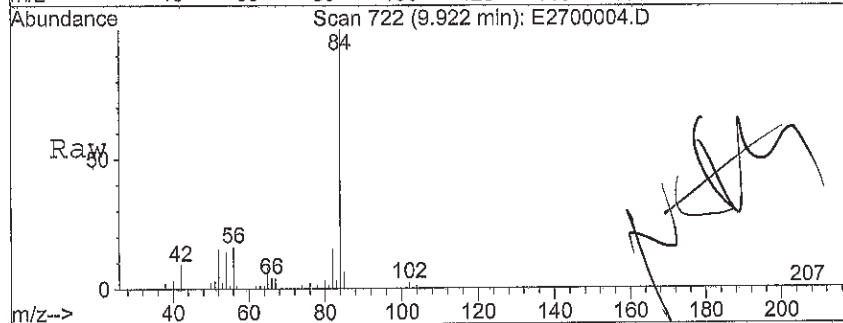
Tgt Ion: 75 Resp: 284

Ion Ratio Lower Upper

75 100

110 0.0 29.0 43.6#

77 919.7 25.0 37.4#



#31

Benzene

Concen: 1.06 ug/L

RT: 9.98 min Scan# 729

Delta R.T. 0.00 min

Lab File: E2700004.D

Acq: 27 May 2014 10:57 am

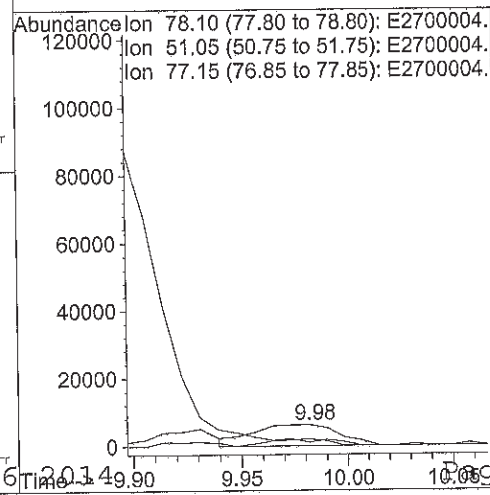
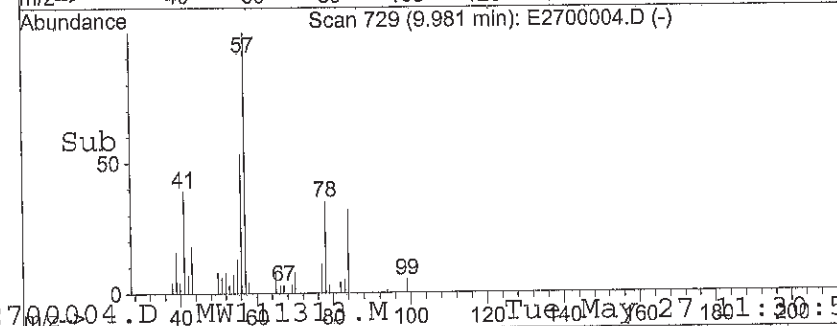
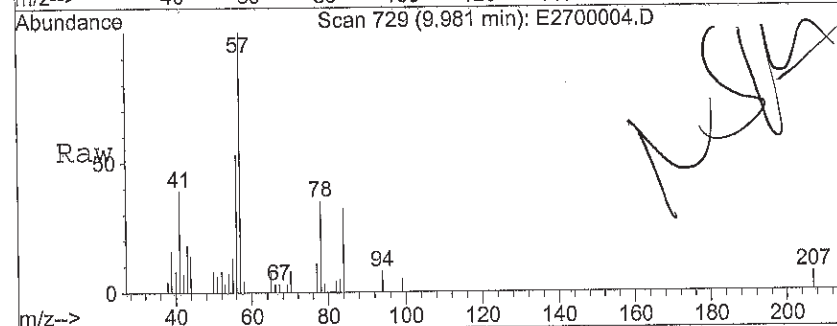
Tgt Ion: 78 Resp: 17478

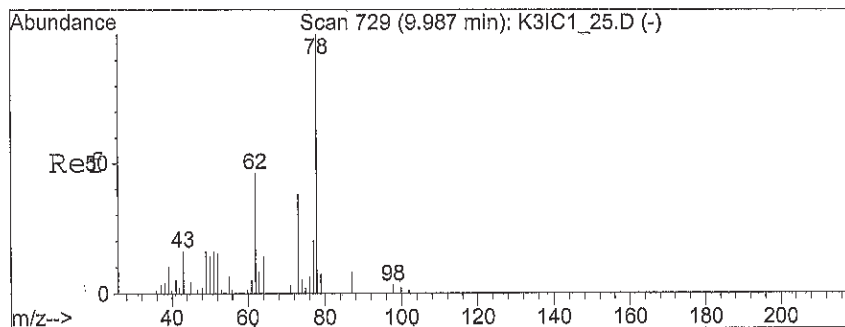
Ion Ratio Lower Upper

78 100

51 0.0 14.2 21.2#

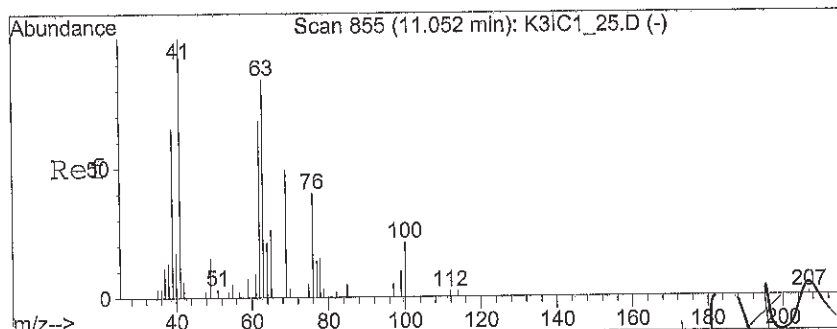
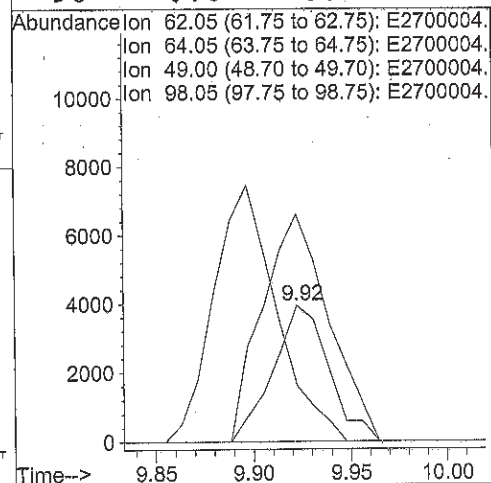
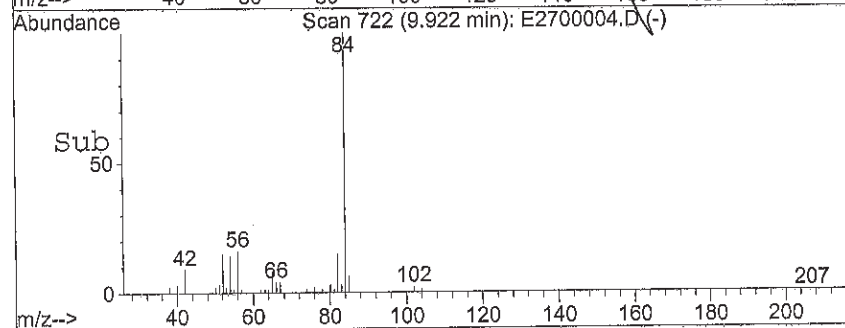
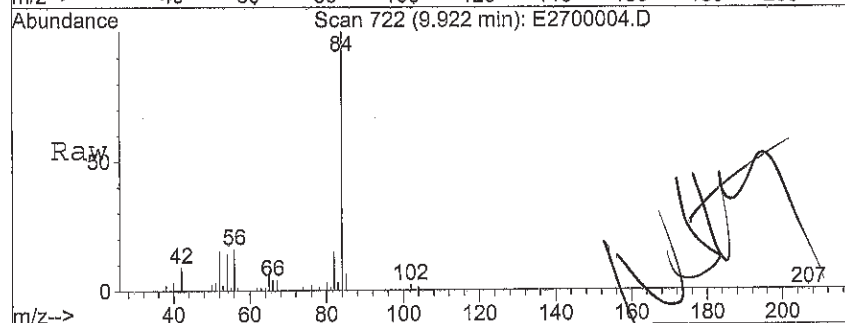
77 20.5 16.6 24.8





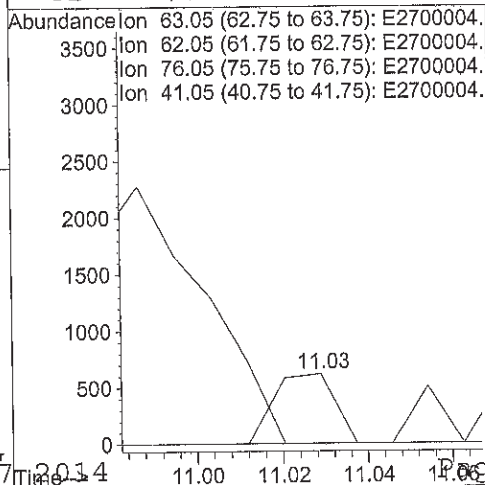
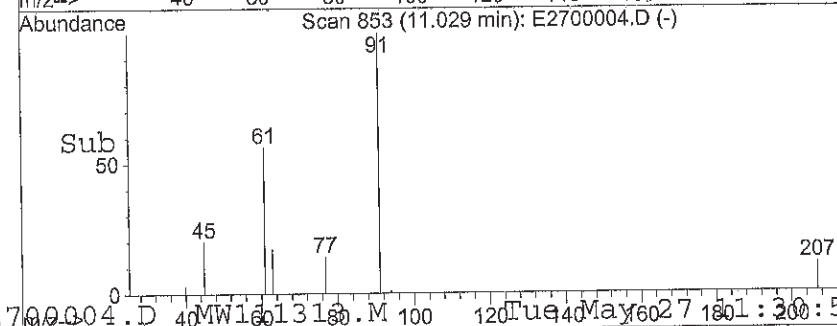
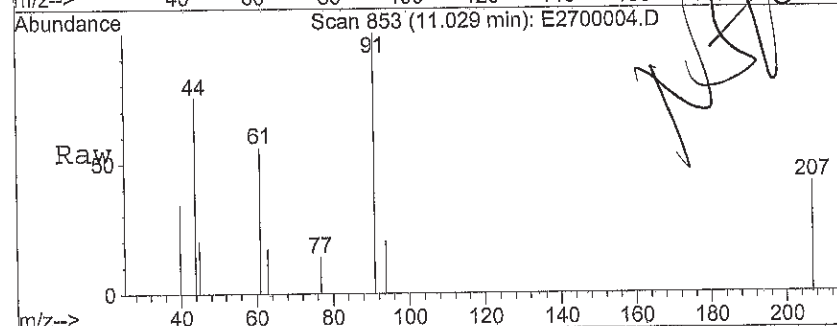
#32
1,2-Dichloroethane
Concen: 1.34 ug/L
RT: 9.92 min Scan# 722
Delta R.T. -0.06 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

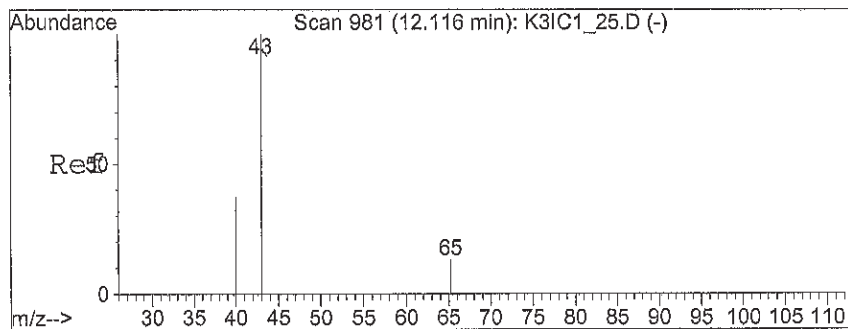
Tgt Ion:	62	Resp:	7790
Ion	Ratio	Lower	Upper
62	100		
64	200.3	28.0	42.0#
49	0.0	28.5	42.7#
98	0.0	6.2	9.4#



#34
1,2-Dichloropropane
Concen: 0.16 ug/L
RT: 11.03 min Scan# 853
Delta R.T. -0.02 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

Tgt Ion:	63	Resp:	609
Ion	Ratio	Lower	Upper
63	100		
62	0.0	67.4	101.2#
76	0.0	40.3	60.5#
41	0.0	103.0	154.6#





#40

(MIBK) 4-Methyl-2-Pentanone

Concen: 2.99 ug/L

RT: 12.19 min Scan# 991

Delta R.T. 0.08 min

Lab File: E2700004.D

Acq: 27 May 2014 10:57 am

Tgt Ion: 43 Resp: 7890

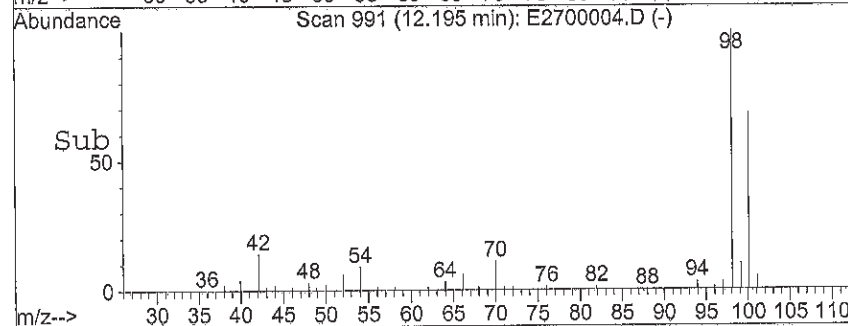
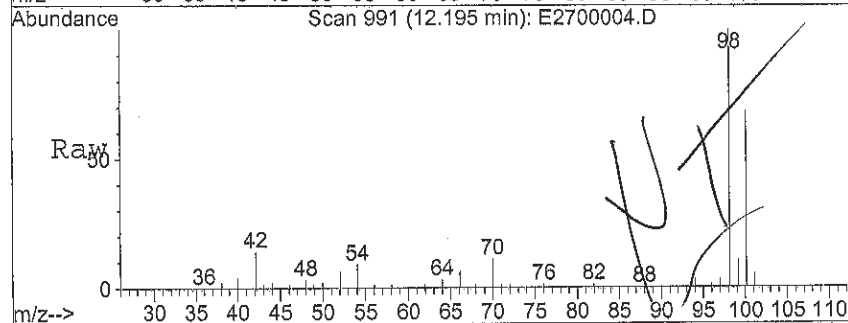
Ion Ratio Lower Upper

43 100

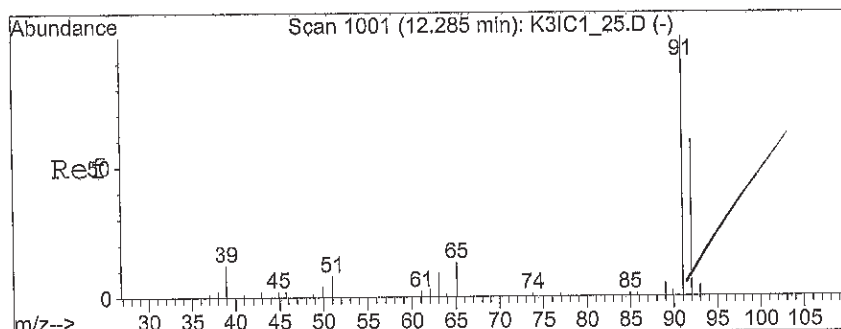
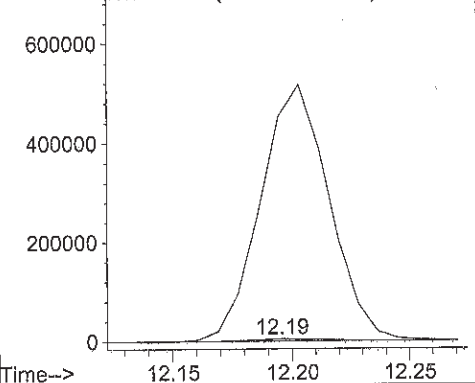
58 131.7 0.0 0.0#

85 0.0 0.0 0.0

100 13141.3 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): E2700004.
800000 Ion 58.10 (57.80 to 58.80): E2700004.
Ion 85.05 (84.75 to 85.75): E2700004.
Ion 100.15 (99.85 to 100.85): E2700004.



#41

Toluene

Concen: 5.10 ug/L

RT: 12.28 min Scan# 1001

Delta R.T. -0.01 min

Lab File: E2700004.D

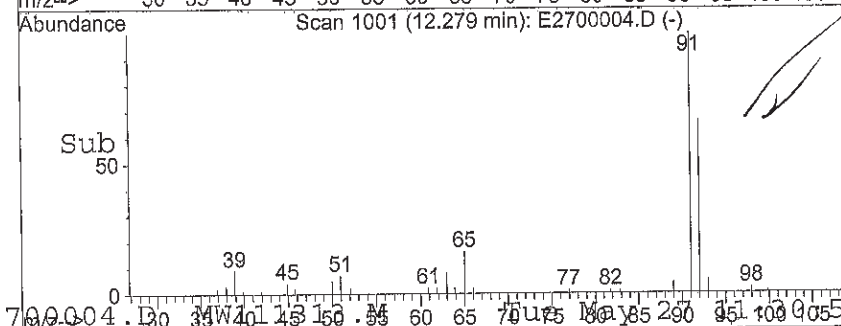
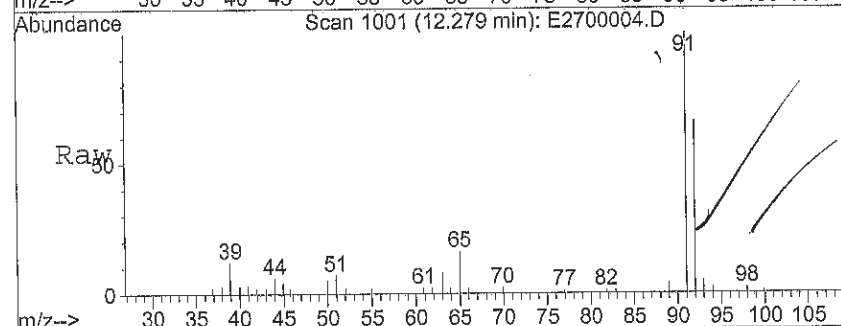
Acq: 27 May 2014 10:57 am

Tgt Ion: 91 Resp: 91885

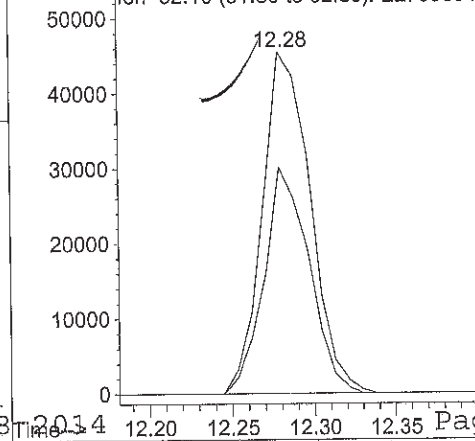
Ion Ratio Lower Upper

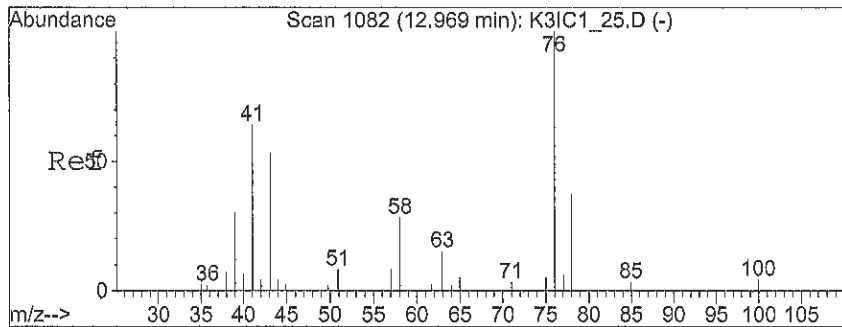
91 100

92 62.2 47.4 71.0



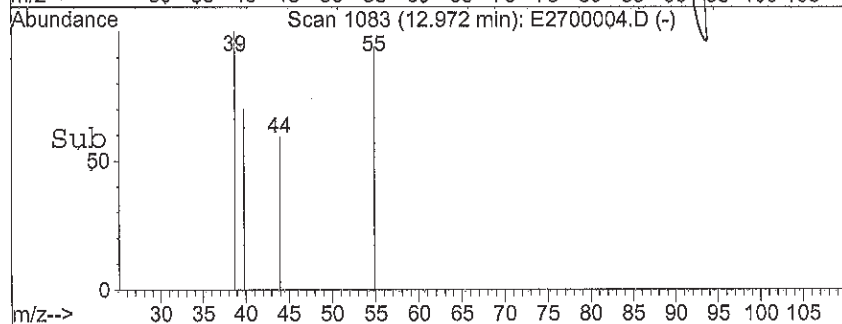
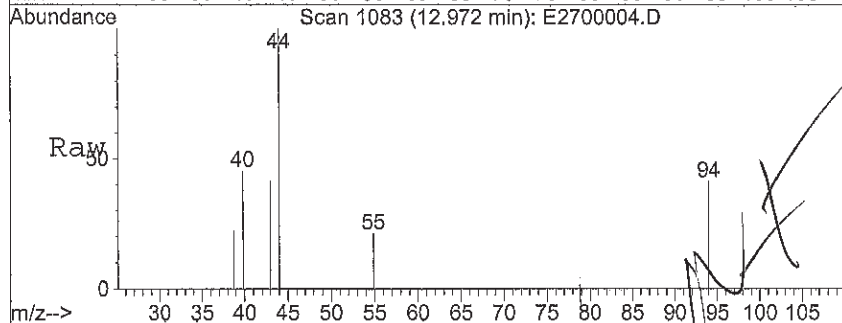
Abundance Ion 91.10 (90.80 to 91.80): E2700004.
Ion 92.10 (91.80 to 92.80): E2700004.



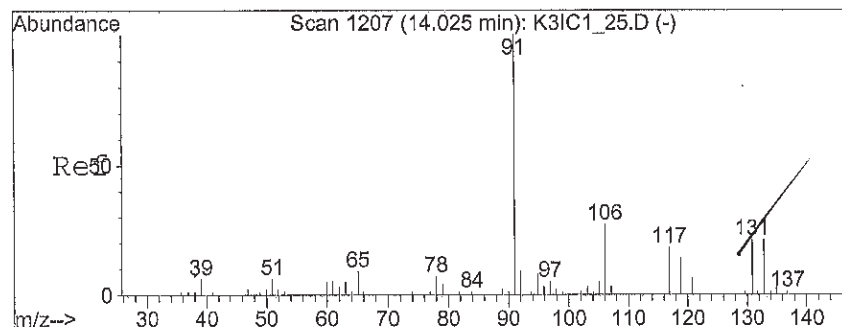
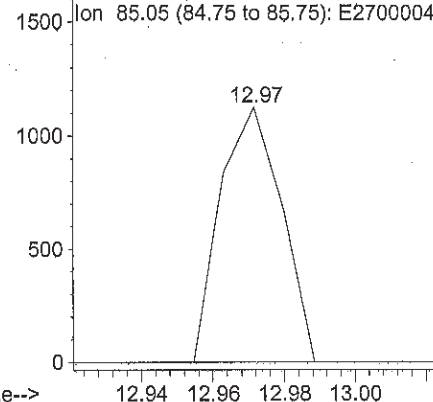


#46
2-Hexanone
Concen: 0.46 ug/L
RT: 12.97 min Scan# 1083
Delta R.T. 0.00 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

Tgt Ion: 43 Resp: 1334
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#

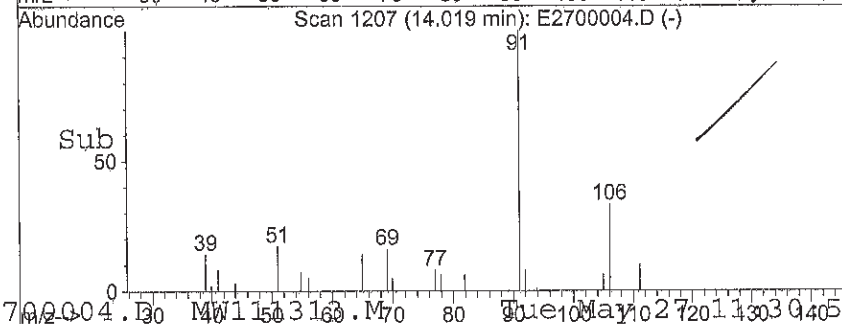
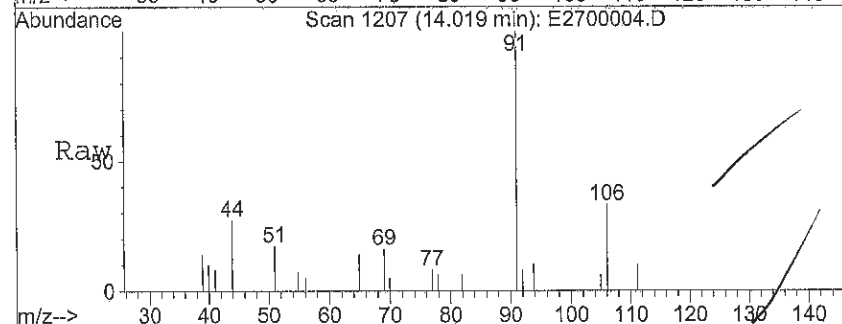


Abundance Ion 43.00 (42.70 to 43.70): E2700004.
Ion 58.10 (57.80 to 58.80): E2700004.
Ion 100.15 (99.85 to 100.85): E2700004.
Ion 85.05 (84.75 to 85.75): E2700004.

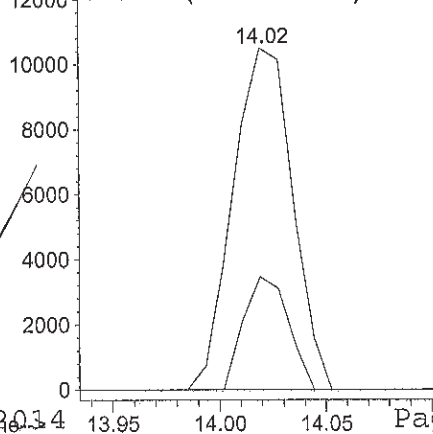


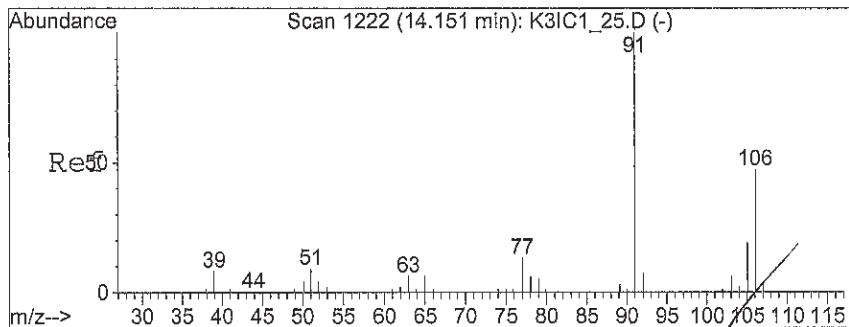
#51
Ethylbenzene
Concen: 0.99 ug/L
RT: 14.02 min Scan# 1207
Delta R.T. -0.01 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

Tgt Ion: 91 Resp: 20349
Ion Ratio Lower Upper
91 100
106 24.7 23.5 35.3



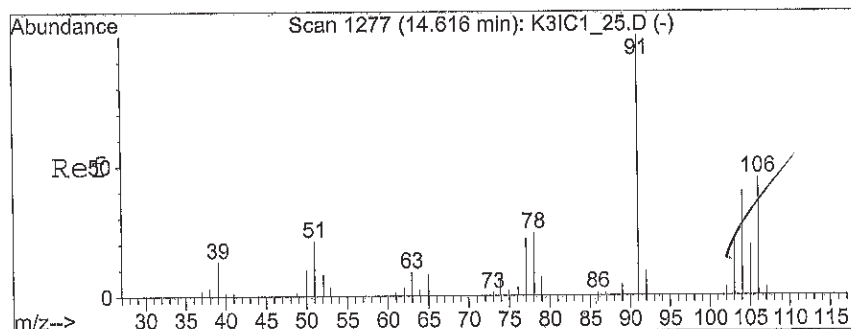
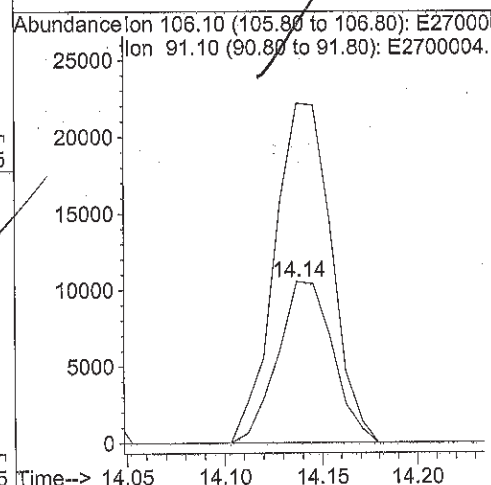
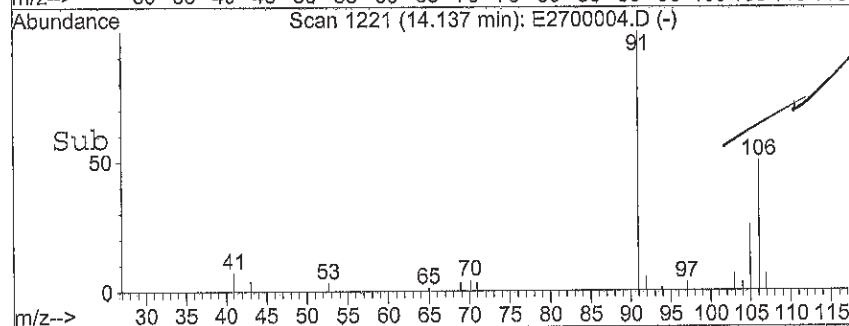
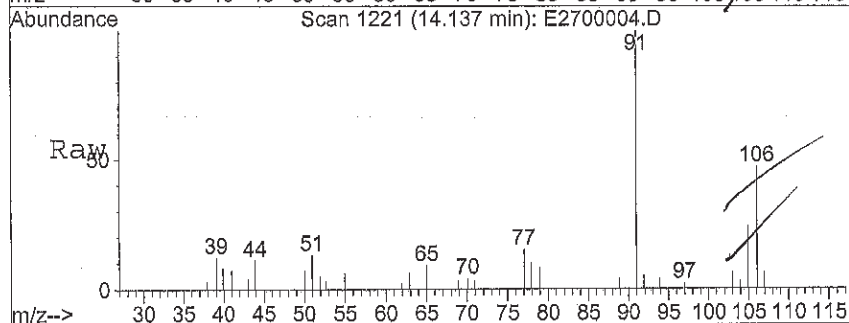
Abundance Ion 91.10 (90.80 to 91.80): E2700004.
Ion 106.20 (105.90 to 106.90): E2700004.





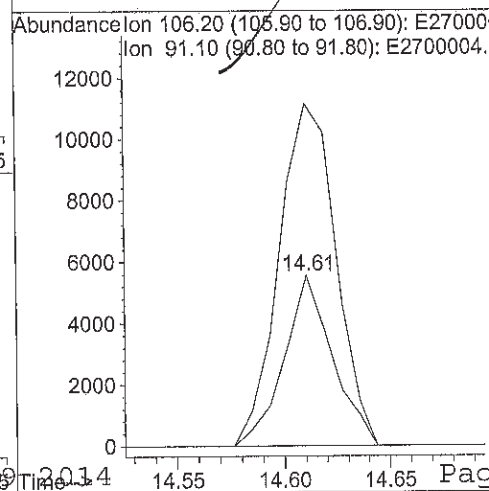
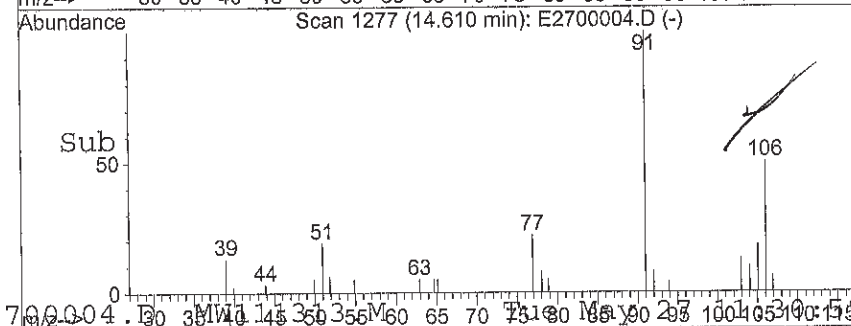
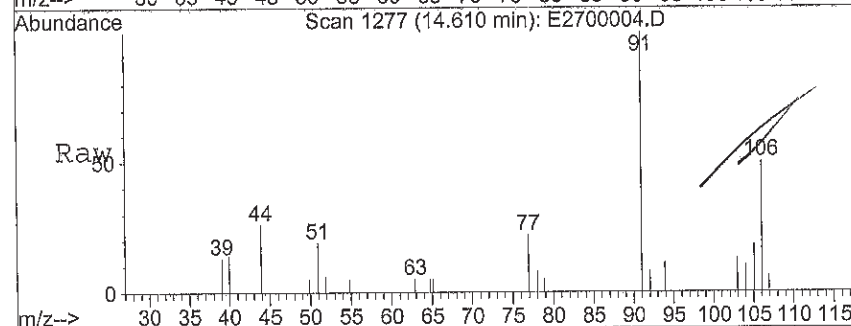
#52
m,p-Xylenes
Concen: 2.85 ug/L
RT: 14.14 min Scan# 1221
Delta R.T. -0.01 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

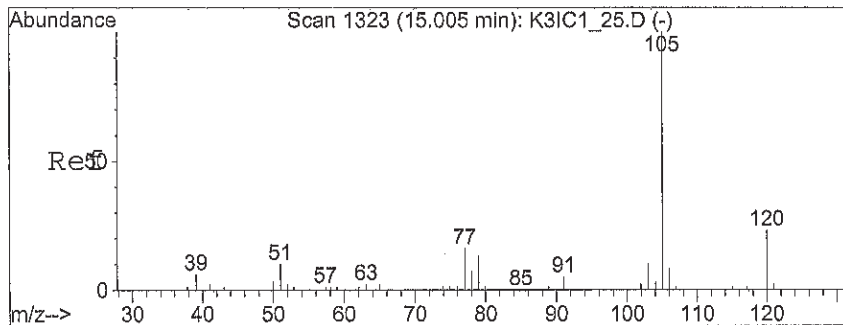
Tgt Ion:106 Resp: 20727
Ion Ratio Lower Upper
106 100
91 216.6 177.1 265.7



#53
o-Xylene
Concen: 1.22 ug/L
RT: 14.61 min Scan# 1277
Delta R.T. -0.01 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

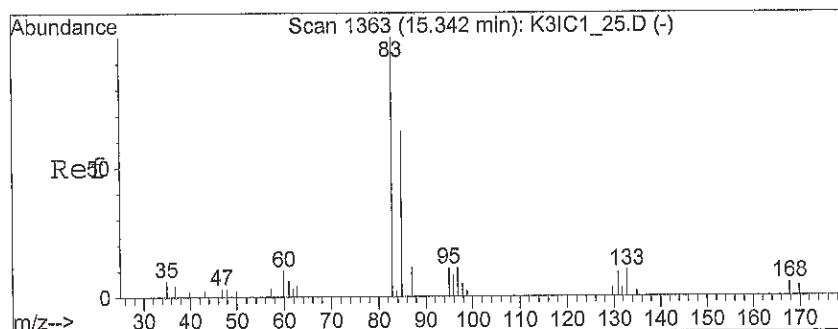
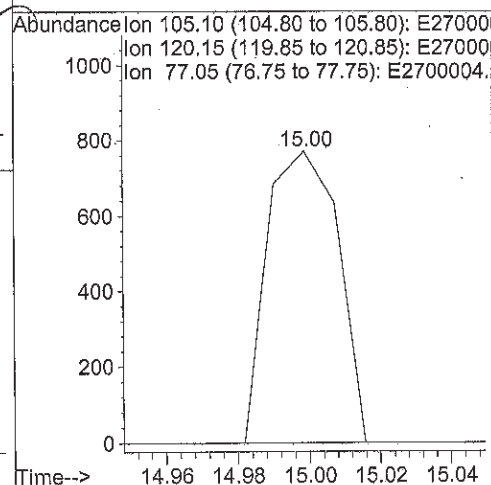
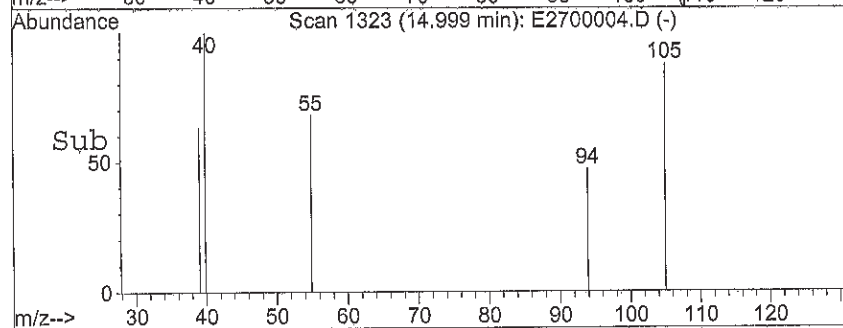
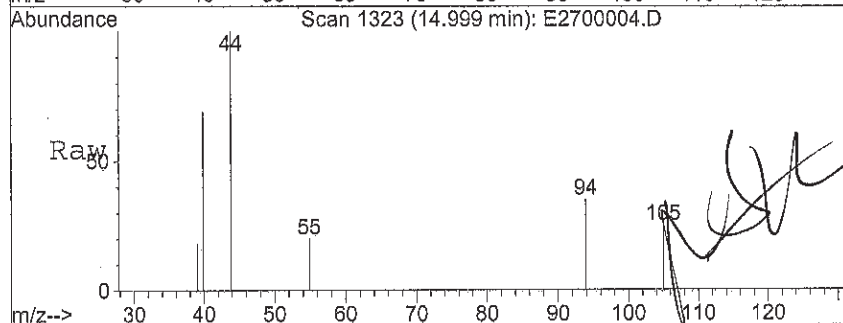
Tgt Ion:106 Resp: 8783
Ion Ratio Lower Upper
106 100
91 235.4 179.0 268.6





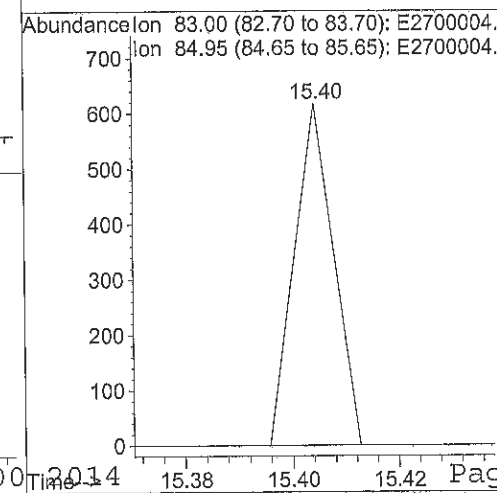
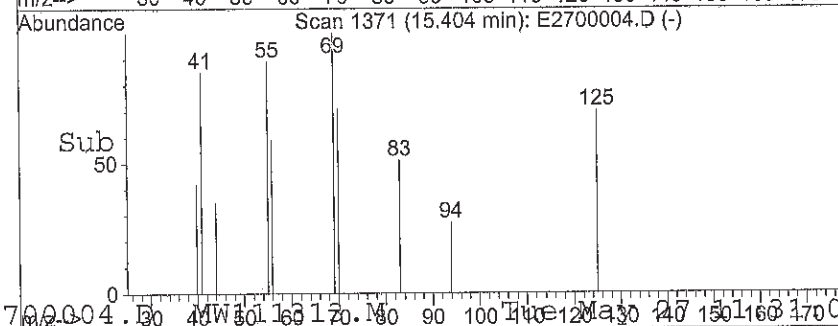
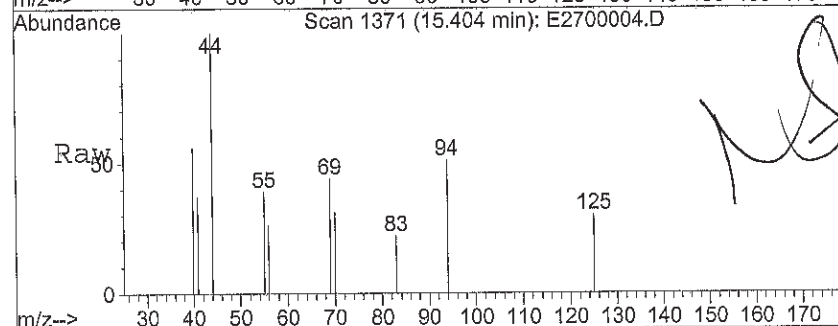
#56
Isopropylbenzene
Concen: 0.05 ug/L
RT: 15.00 min Scan# 1323
Delta R.T. -0.01 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

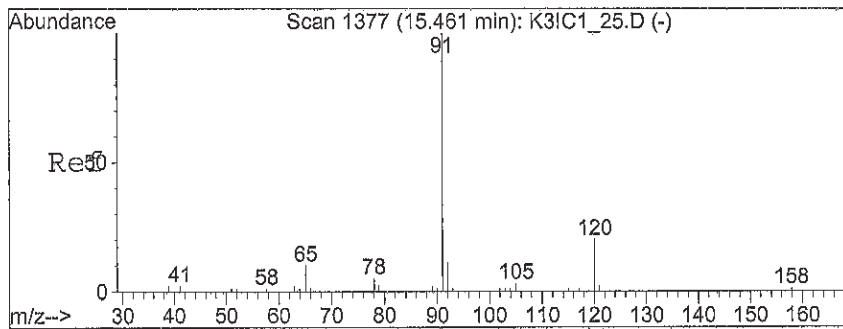
Tgt Ion: 105 Resp: 1060
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 0.0 13.1 19.7#



#60
1,1,2,2-Tetrachloroethane
Concen: 0.06 ug/L
RT: 15.40 min Scan# 1371
Delta R.T. 0.06 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

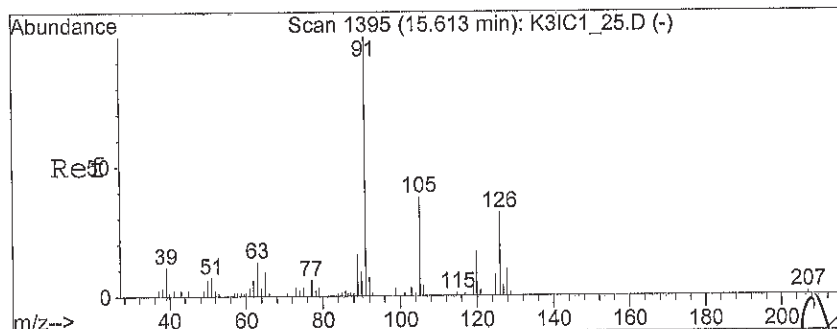
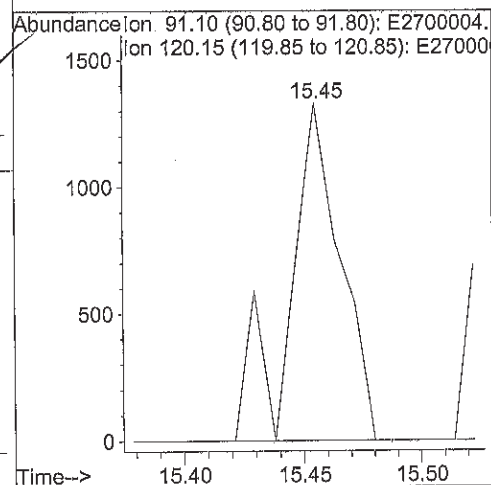
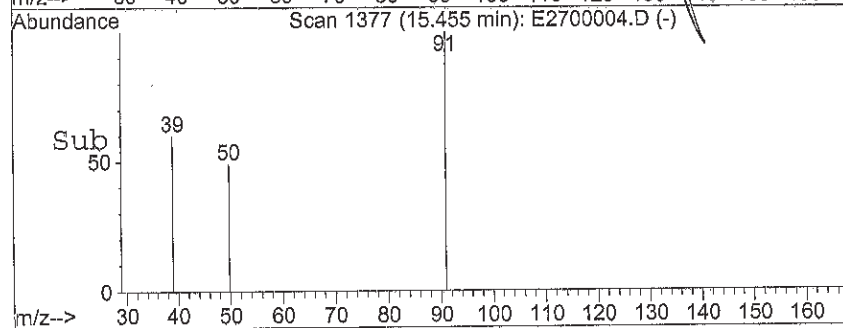
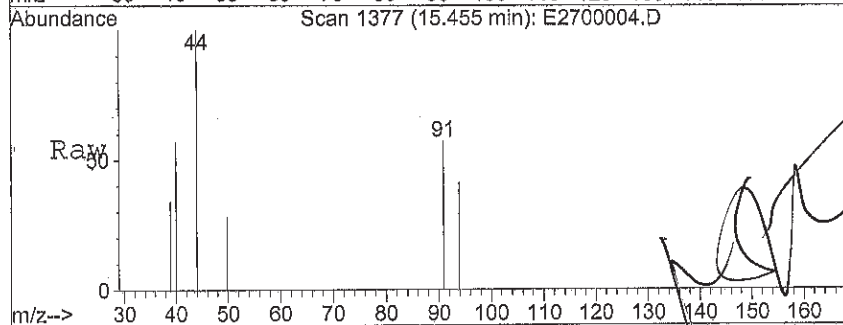
Tgt Ion: 83 Resp: 313
Ion Ratio Lower Upper
83 100
85 0.0 51.2 76.8#





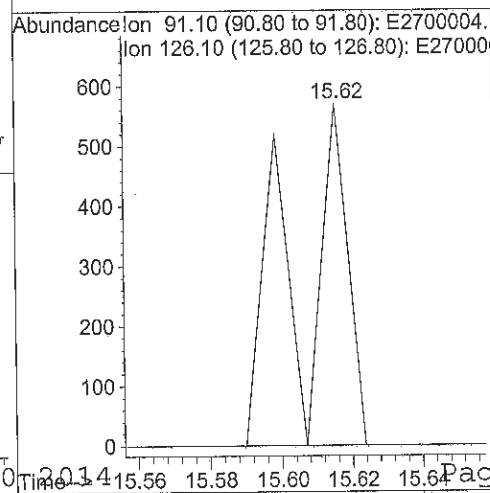
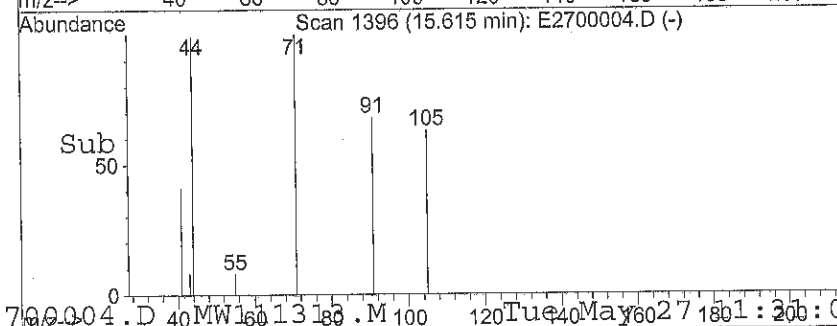
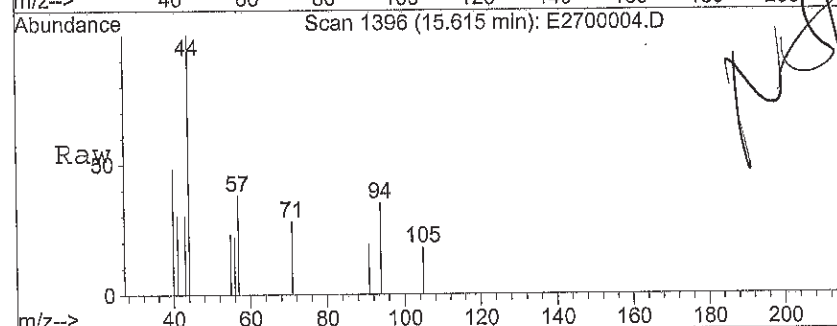
#62
n-Propylbenzene
Concen: 0.07 ug/L
RT: 15.45 min Scan# 1377
Delta R.T. -0.01 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

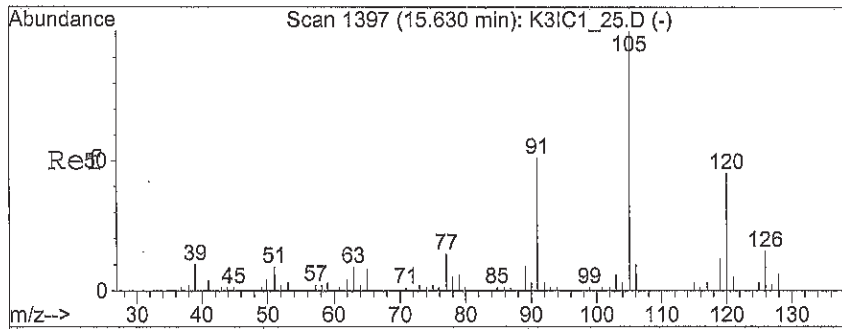
Tgt Ion: 91 Resp: 1988
Ion Ratio Lower Upper
91 100
120 0.0 16.1 24.1#



#63
2-Chlorotoluene
Concen: 0.03 ug/L
RT: 15.62 min Scan# 1396
Delta R.T. 0.00 min
Lab File: E2700004.D
Acq: 27 May 2014 10:57 am

Tgt Ion: 91 Resp: 552
Ion Ratio Lower Upper
91 100
126 0.0 24.0 36.0#





#64

1,3,5-Trimethylbenzene

Concen: 0.04 ug/L

RT: 15.62 min Scan# 1397

Delta R.T. -0.01 min

Lab File: E2700004.D

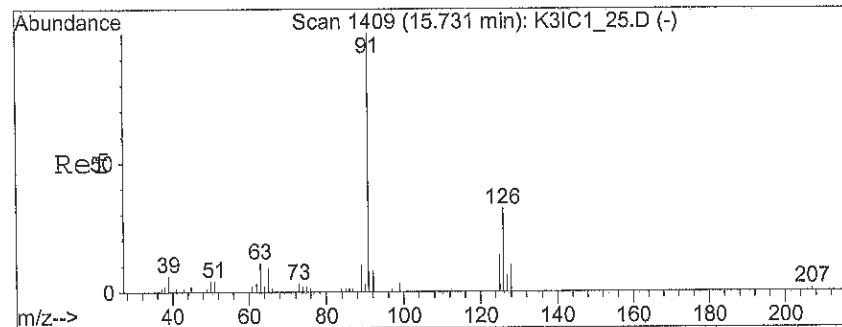
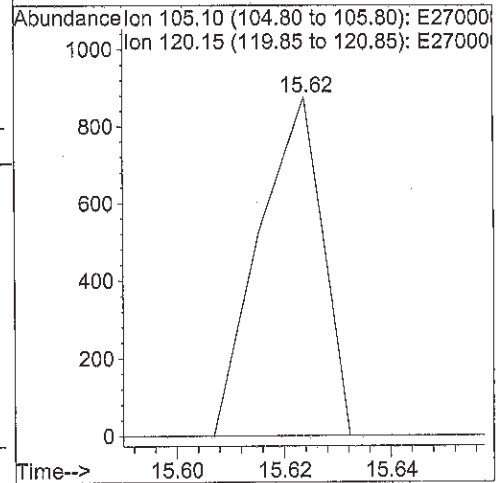
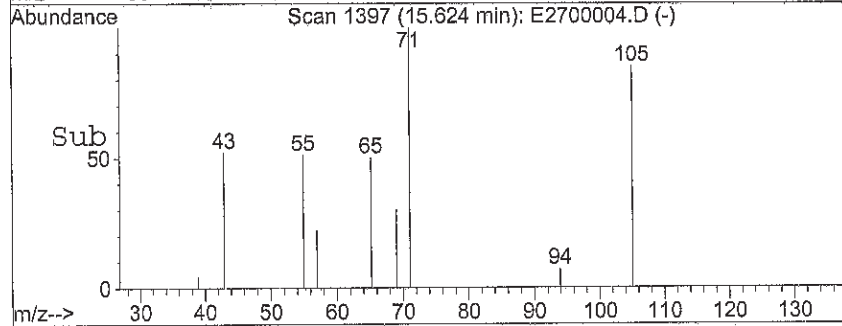
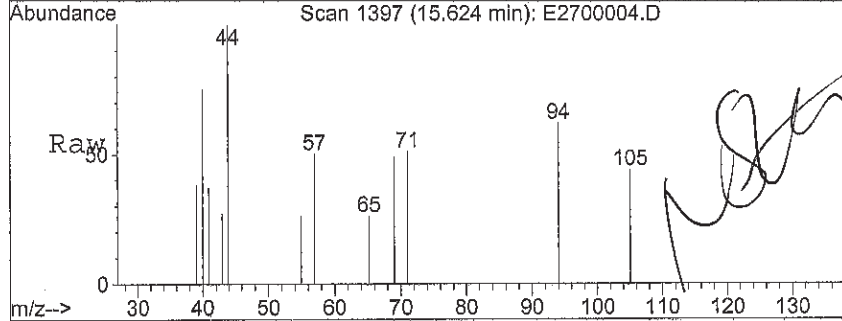
Acq: 27 May 2014 10:57 am

Tgt Ion: 105 Resp: 710

Ion Ratio Lower Upper

105 100

120 0.0 36.4 54.6#



#65

4-Chlorotoluene

Concen: 0.03 ug/L

RT: 15.62 min Scan# 1396

Delta R.T. -0.12 min

Lab File: E2700004.D

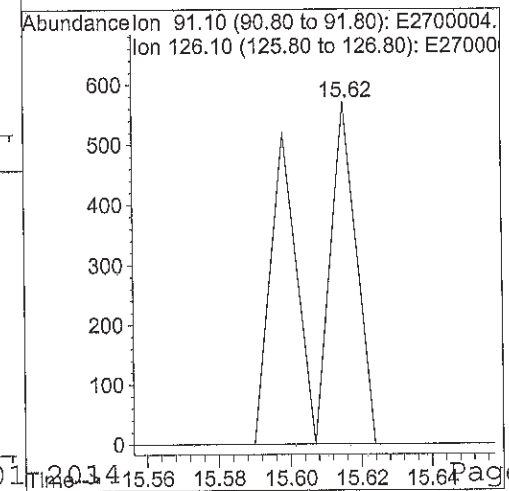
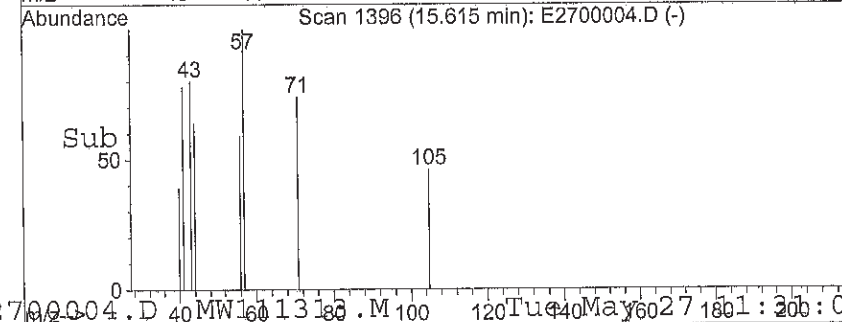
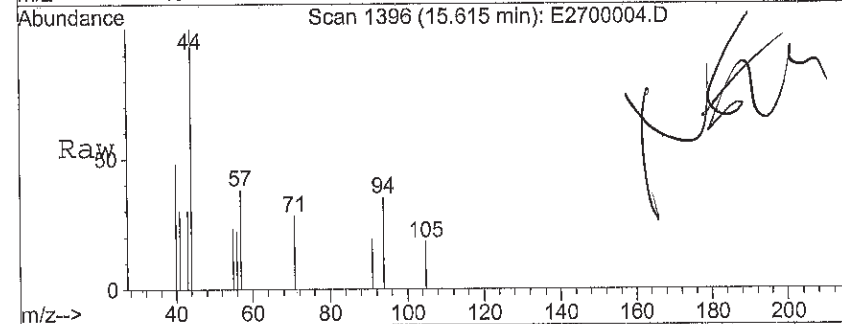
Acq: 27 May 2014 10:57 am

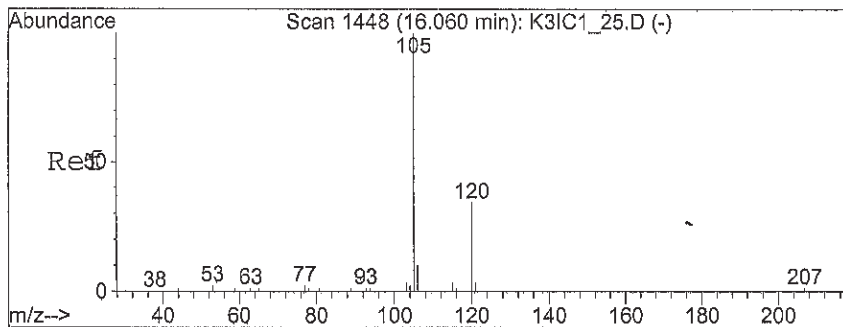
Tgt Ion: 91 Resp: 552

Ion Ratio Lower Upper

91 100

126 0.0 24.6 36.8#





#67

1,2,4-Trimethylbenzene

Concen: 0.17 ug/L

RT: 16.05 min Scan# 1447

Delta R.T. -0.01 min

Lab File: E2700004.D

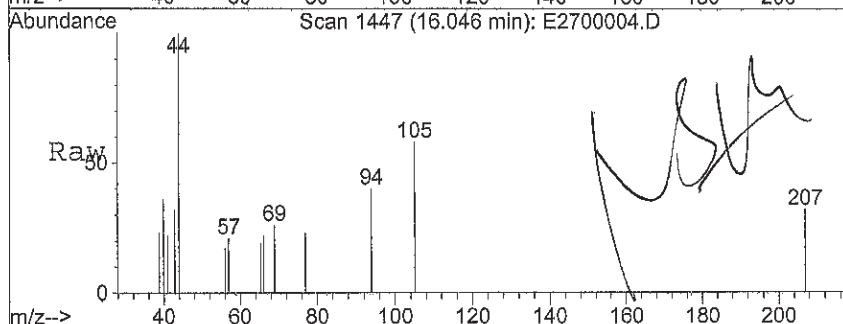
Acq: 27 May 2014 10:57 am

Tgt Ion:105 Resp: 3152

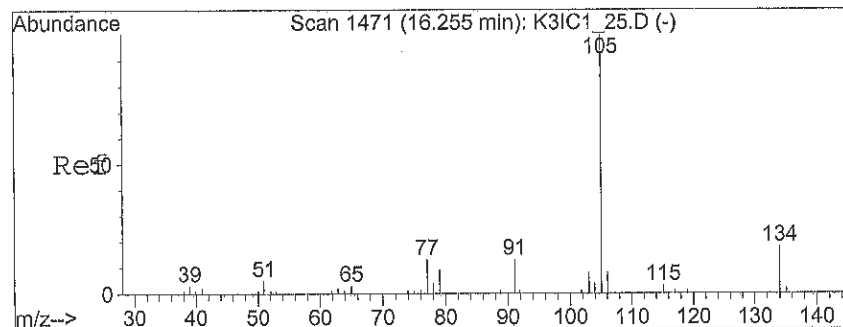
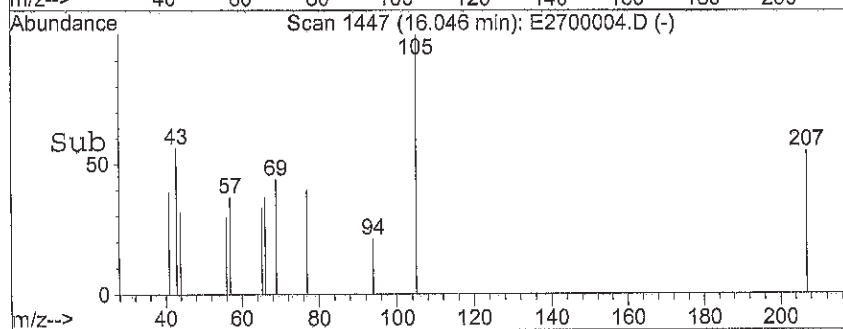
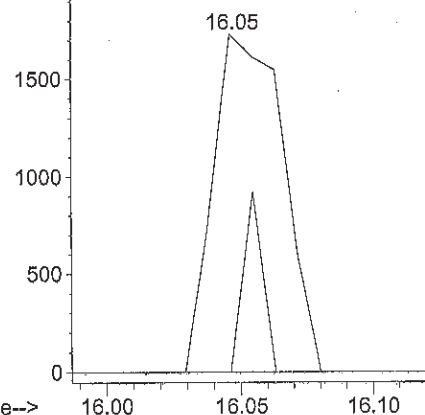
Ion Ratio Lower Upper

105 100

120 14.8 33.8 50.8#



Abundance Ion 105.10 (104.80 to 105.80): E270000
Ion 120.15 (119.85 to 120.85): E270000



#68

sec-Butylbenzene

Concen: 0.04 ug/L

RT: 16.15 min Scan# 1459

Delta R.T. -0.11 min

Lab File: E2700004.D

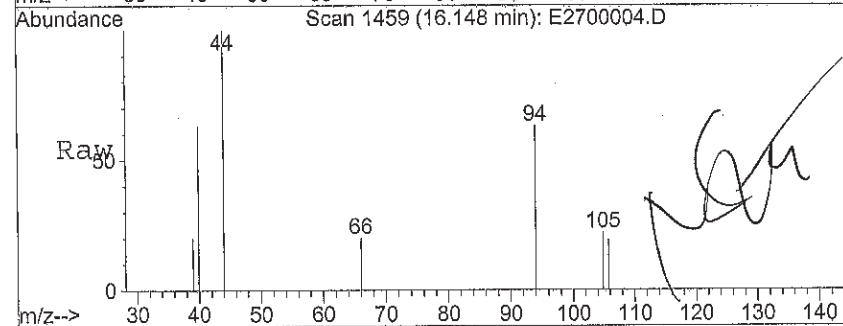
Acq: 27 May 2014 10:57 am

Tgt Ion:105 Resp: 883

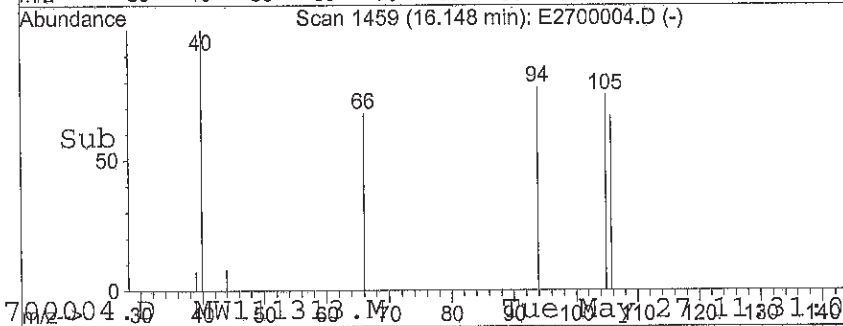
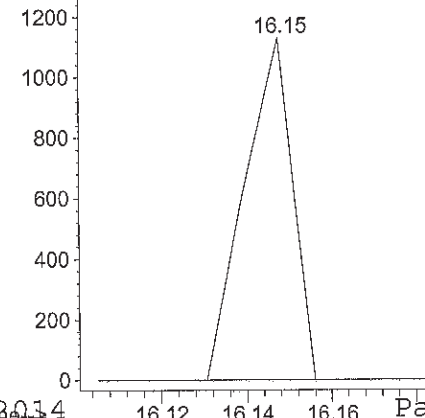
Ion Ratio Lower Upper

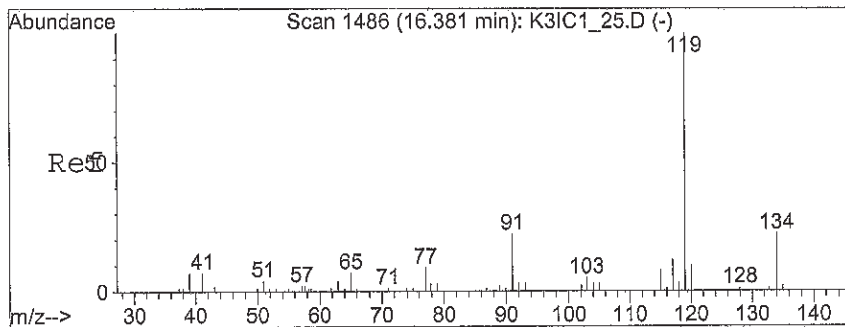
105 100

134 0.0 13.0 19.6#



Abundance Ion 105.10 (104.80 to 105.80): E270000
Ion 134.15 (133.85 to 134.85): E270000





#69

p-Isopropyltoluene

Concen: 0.07 ug/L

RT: 16.38 min Scan# 1486

Delta R.T. -0.01 min

Lab File: E2700004.D

Acq: 27 May 2014 10:57 am

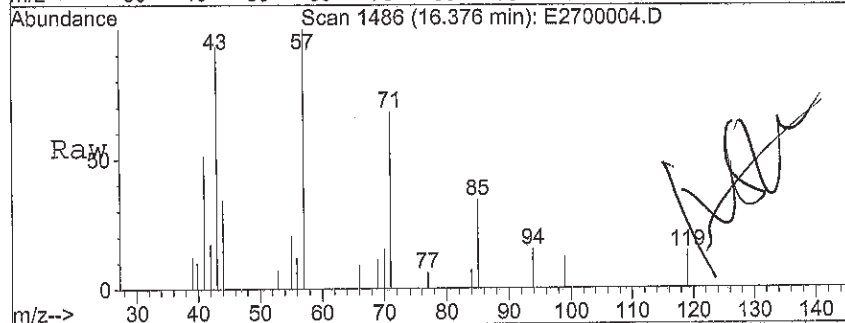
Tgt Ion: 119 Resp: 1416

Ion Ratio Lower Upper

119 100

134 0.0 17.4 26.2#

91 0.0 19.6 29.4#

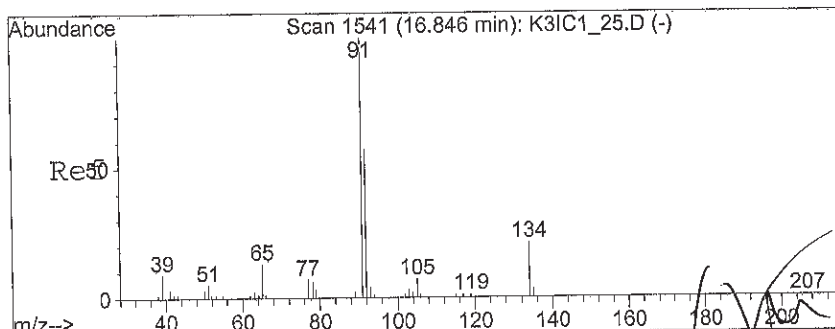
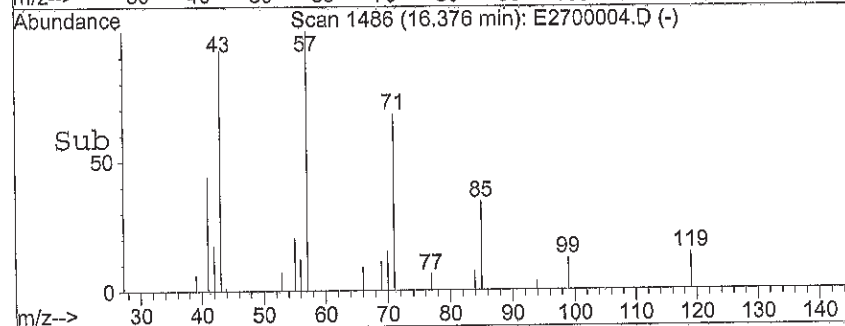
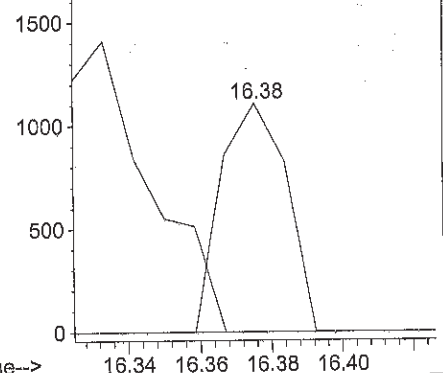


Abundance

Ion 119.15 (118.85 to 119.85): E270000

Ion 134.15 (133.85 to 134.85): E270000

Ion 91.10 (90.80 to 91.80): E2700004.



#72

n-Butylbenzene

Concen: 0.01 ug/L

RT: 16.85 min Scan# 1542

Delta R.T. 0.00 min

Lab File: E2700004.D

Acq: 27 May 2014 10:57 am

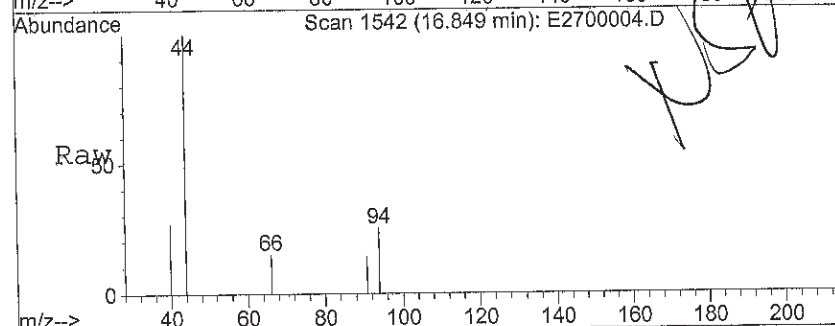
Tgt Ion: 91 Resp: 272

Ion Ratio Lower Upper

91 100

92 0.0 47.0 70.4#

134 0.0 18.1 27.1#

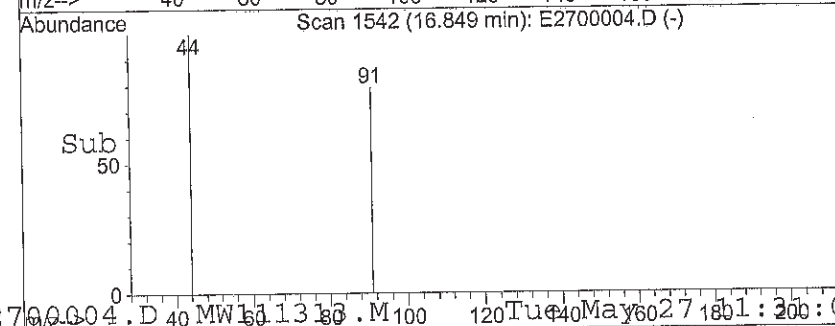
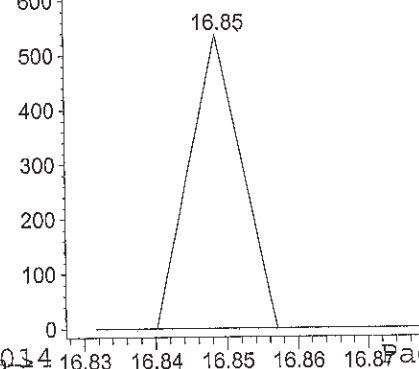


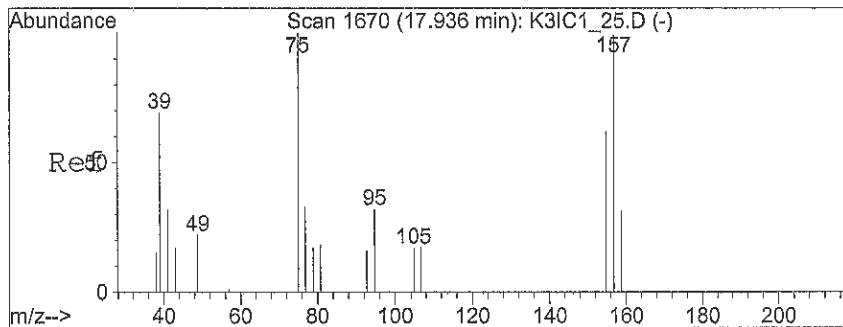
Abundance

Ion 91.10 (90.80 to 91.80): E2700004.

Ion 92.10 (91.80 to 92.80): E2700004.

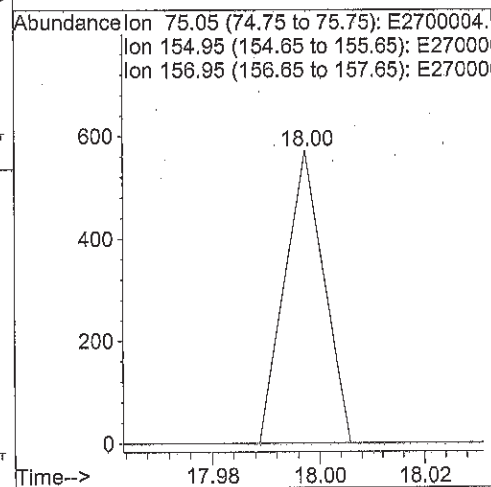
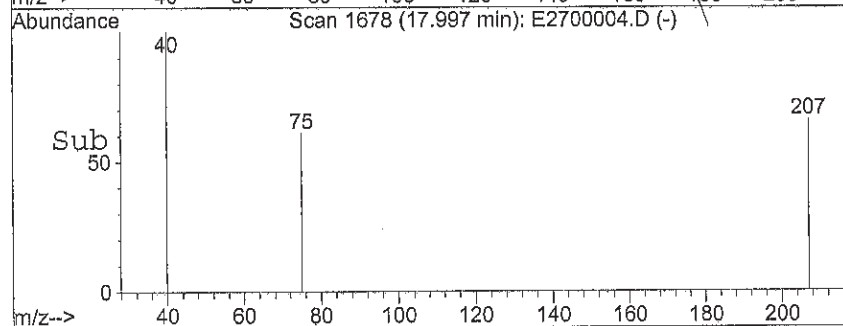
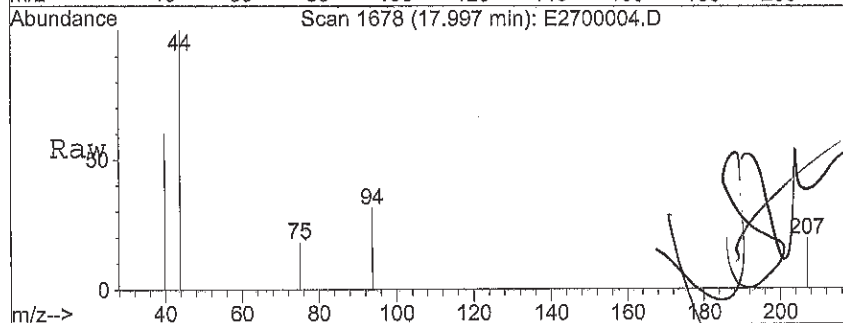
Ion 134.15 (133.85 to 134.85): E270000





#74
 1,2-Dibromo-3-chloropropane
 Concen: 1.23 ug/L
 RT: 18.00 min Scan# 1678
 Delta R.T. 0.06 min
 Lab File: E2700004.D
 Acq: 27 May 2014 10:57 am

Tgt Ion: 75 Resp: 289
 Ion Ratio Lower Upper
 75 100
 155 0.0 59.2 88.8#
 157 0.0 77.0 115.6#



Data File : C:\HPCHEM\1\DATA\052714L3\E2700004.D

Vial: 3

Acq On : 27 May 2014 10:57 am

Operator: DN

Sample : 3E42701-03

Inst : GC/MS Ins

Misc : 100cc SVL-802-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 11:30 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1745598	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.91	117	1321241	12.50	ug/L	-0.02
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	716932	12.50	ug/L	-0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	499272	11.00	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	88.00%
3) Chloroform-d (SU6)	9.18	84	793910	12.19	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	97.52%
4) Methylene Chloride-d2 (SU5)	7.07	86	460082	12.08	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	96.64%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	500264	16.12	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	128.96%#
6) Benzene-d6 (SU7)	9.92	84	1534938	11.21	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	89.68%
8) Toluene-d8 (SU3)	12.20	98	1522306	12.14	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	97.12%
9) 4-Bromofluorobenzene (SU4)	15.22	95	713995	13.80	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	110.40%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700004.D SS072713.M

Tue May 27 11:30:29 2014

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700004.D

Vial: 3

Acq On : 27 May 2014 10:57 am

Operator: DN

Sample : 3E42701-03

Inst : GC/MS Ins

Misc : 100cc SVL-802-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 11:30 19114

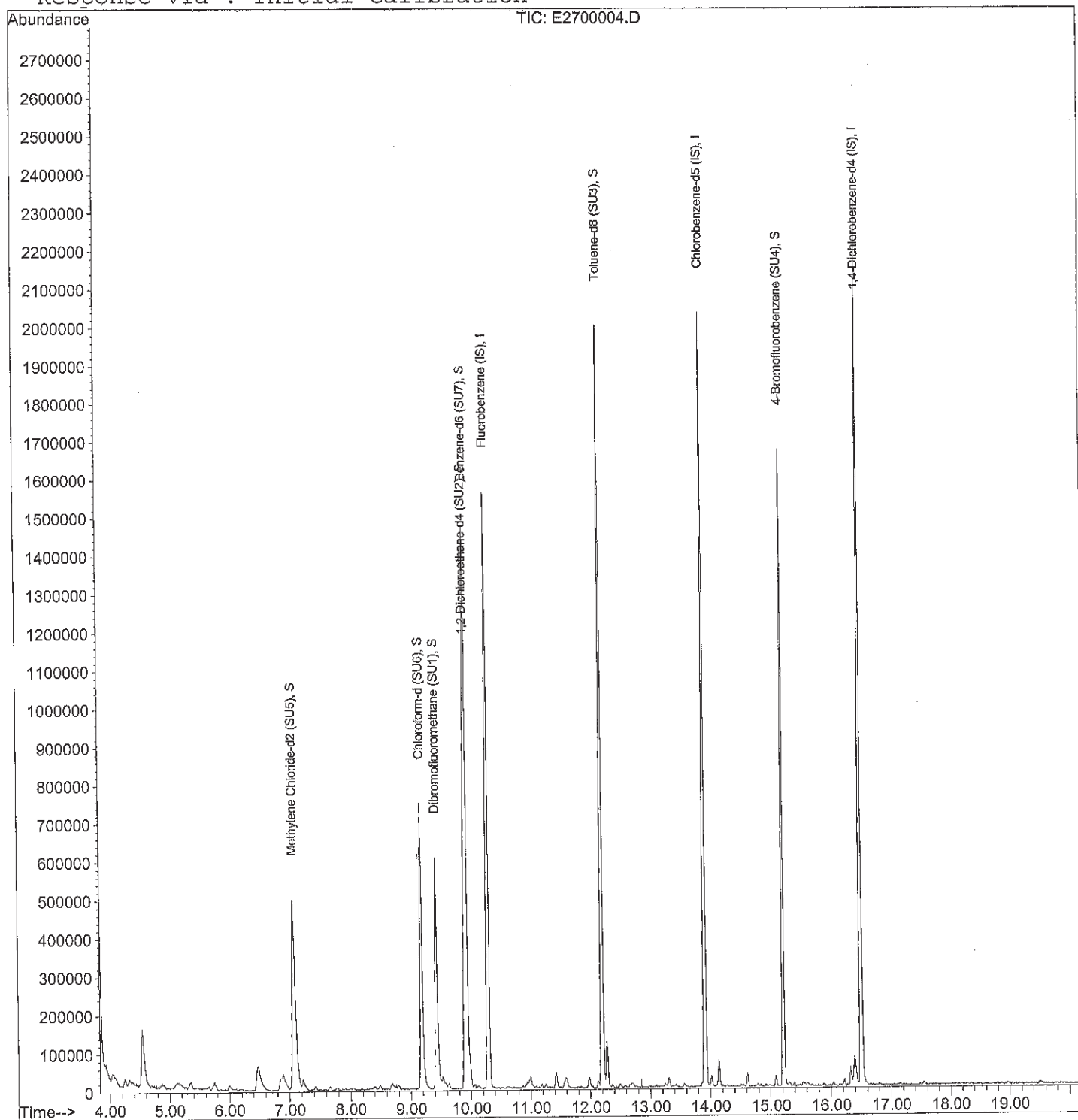
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Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E2700005.D
 Acq On : 27 May 2014 11:32 am
 Sample : 3E42701-04
 Misc : 100cc SVL-502-SA5D-SV-13.0-14.0
 MS Integration Params: rteint.p
 Quant Time: May 27 11:54 19114

Vial: 4
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1913339	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1437327	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	745284	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	533258	11.17	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	89.36%
28) 1,2-Dichloroethane-d4 (SU2)	9.89	65	505491	11.14	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	89.12%
39) Toluene-d8 (SU3)	12.20	98	1639551	12.23	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	97.84%
58) 4-Bromofluorobenzene (SU4)	15.22	95	764175	13.00	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	104.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	4.39	50	1519	-0.75	ug/L	41
6) Bromomethane	5.11	96	4949	0.57	ug/L	93
7) Chloroethane	5.15	64	1933	1.90	ug/L	94
11) Acetone	6.45	58	19721	25.28	ug/L	81
12) (IPA) Leak Check Compound	6.47	45	97295	423.18	ug/L	94
13) Carbon disulfide	6.85	76	8578	0.54	ug/L	76
14) Methylene Chloride	7.07	84	5435	1.03	ug/L	1
15) (TBA) tert-Butanol	6.93	59	935	2.87	ug/L	77
21) (MEK) 2-Butanone	8.78	72	1310	2.44	ug/L	1
24) Chloroform	9.22	83	673	0.07	ug/L	18
31) Benzene	10.00	78	828	0.05	ug/L	27
32) 1,2-Dichloroethane	9.92	62	6852	1.08	ug/L	1
35) Dibromomethane	11.00	93	328	0.10	ug/L	5
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	8397	2.93	ug/L	100
41) Toluene	12.29	91	11160	0.57	ug/L	99
46) 2-Hexanone	12.95	43	1151	0.37	ug/L	37
51) Ethylbenzene	14.03	91	5010	0.22	ug/L	82
52) m,p-Xylenes	14.15	106	4256	0.54	ug/L	85
53) o-Xylene	14.61	106	1809	0.23	ug/L	29
54) Styrene	14.62	104	2629	-0.64	ug/L	76
56) Isopropylbenzene	15.01	105	634	0.03	ug/L	55
62) n-Propylbenzene	15.45	91	606	0.02	ug/L	56

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E2700005.D

Vial: 4

Acq On : 27 May 2014 11:32 am

Operator: DN

Sample : 3E42701-04

Inst : GC/MS Ins

Misc : 100cc SVL-502-SA5D-SV-13.0-14.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 11:54 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63) 2-Chlorotoluene	15.45	91	606	0.03	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.56	105	940	0.05	ug/L #	31
67) 1,2,4-Trimethylbenzene	16.05	105	2022	0.10	ug/L #	33
68) sec-Butylbenzene	16.33	105	298	0.01	ug/L #	62
69) p-Isopropyltoluene	16.38	119	345	0.02	ug/L #	52
77) Naphthalene	19.46	128	509	0.03	ug/L	100

(#) = qualifier out of range (m) = manual integration

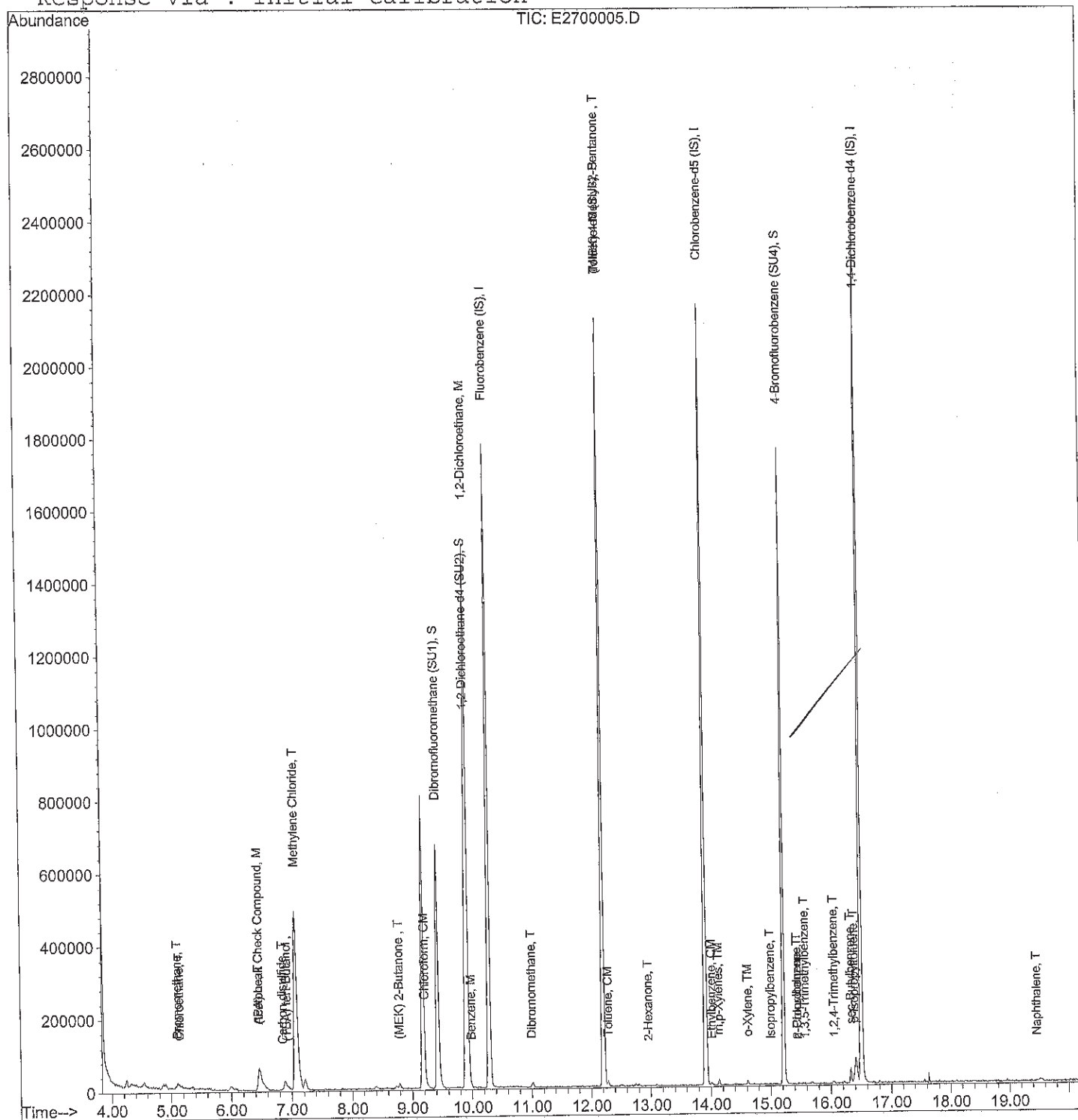
Quantitation Report

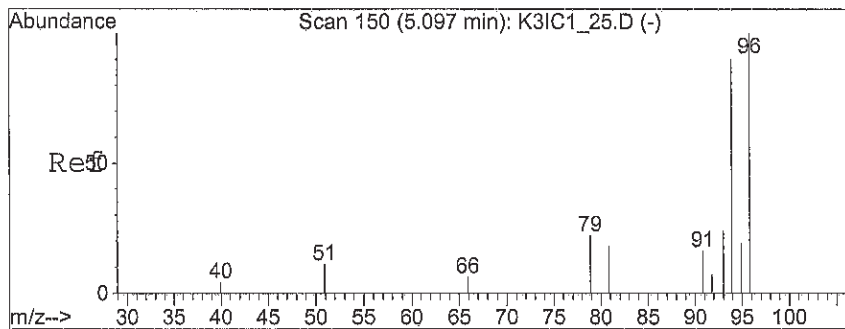
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Acq On : 27 May 2014 11:32 am
Sample : 3E42701-04
Misc : 100cc SVL-502-SA5D-SV-13.0-14.0
MS Integration Params: rteint.p
Quant Time: May 27 11:54 19114

Vial: 4
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

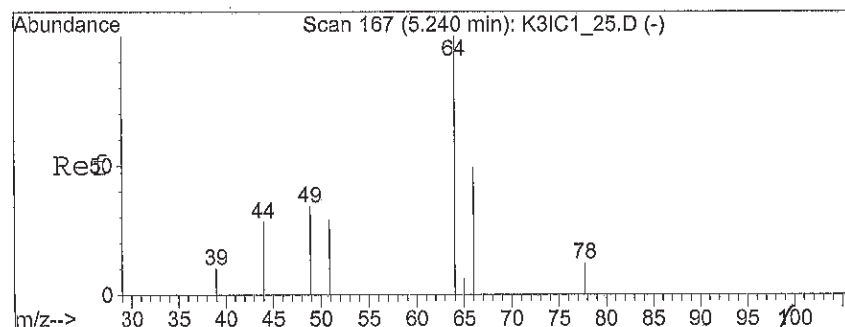
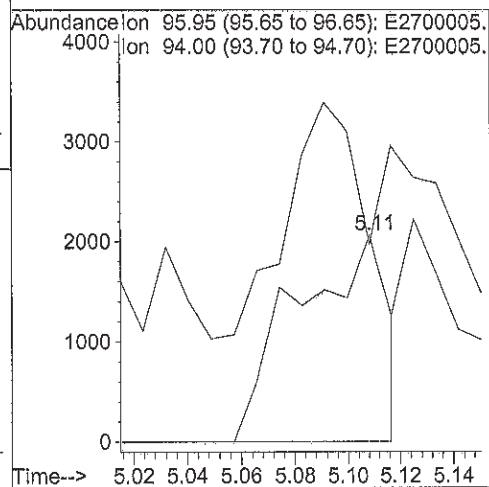
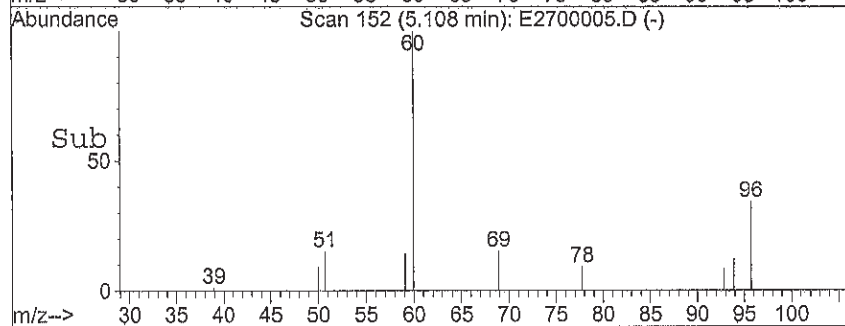
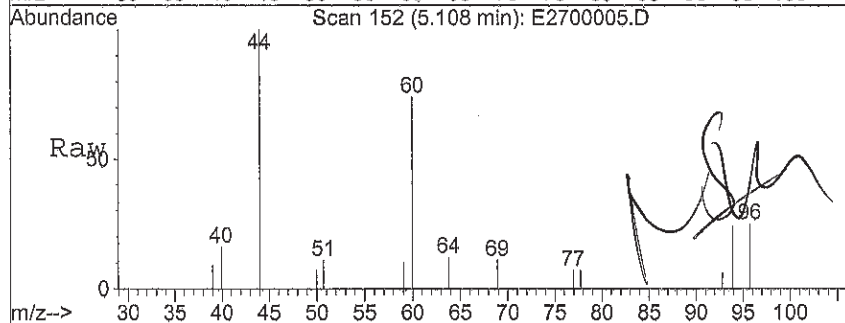
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Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration





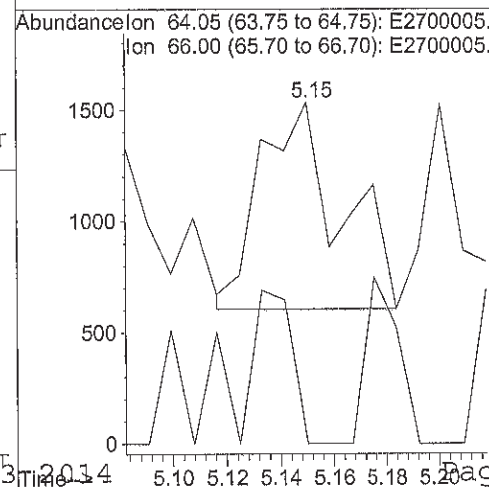
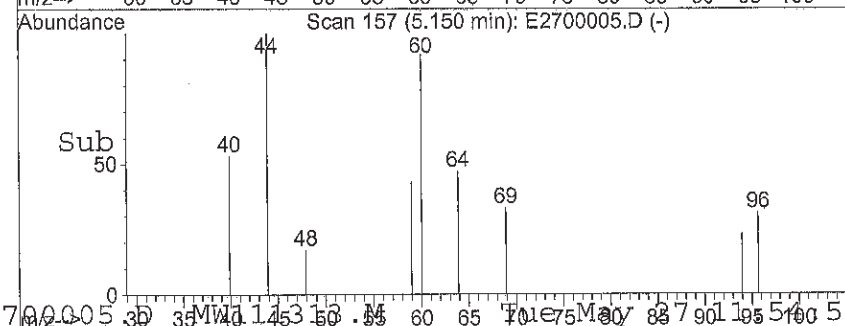
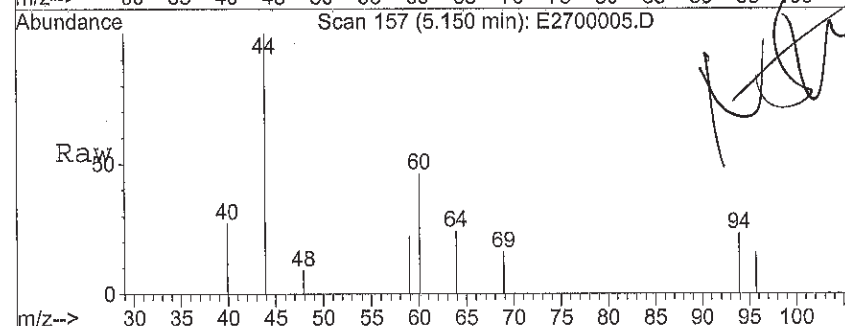
#6
 Bromomethane
 Concen: 0.57 ug/L
 RT: 5.11 min Scan# 152
 Delta R.T. 0.01 min
 Lab File: E2700005.D
 Acq: 27 May 2014 11:32 am

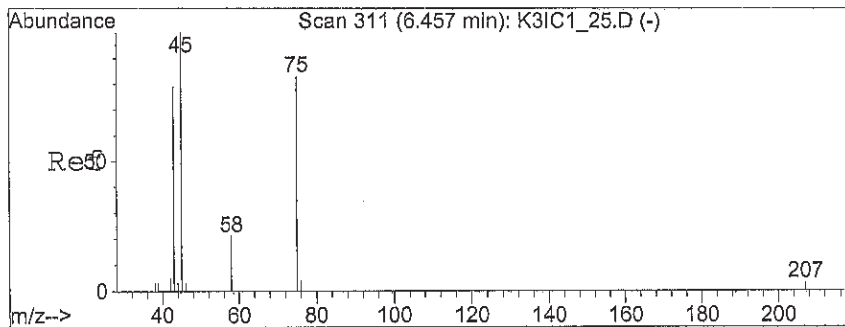
Tgt Ion: 96 Resp: 4949
 Ion Ratio Lower Upper
 96 100
 94 134.6 101.0 151.4



#7
 Chloroethane
 Concen: 1.90 ug/L
 RT: 5.15 min Scan# 157
 Delta R.T. -0.09 min
 Lab File: E2700005.D
 Acq: 27 May 2014 11:32 am

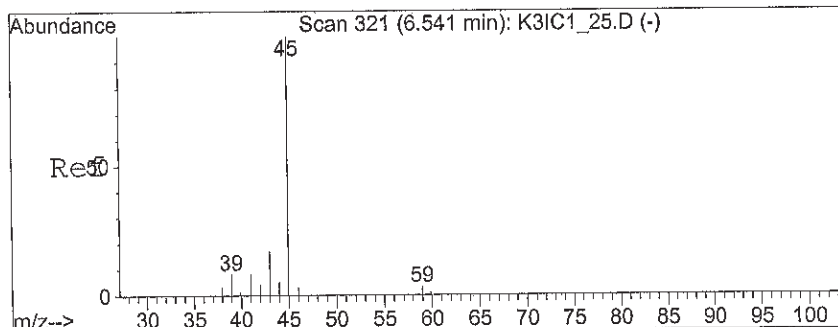
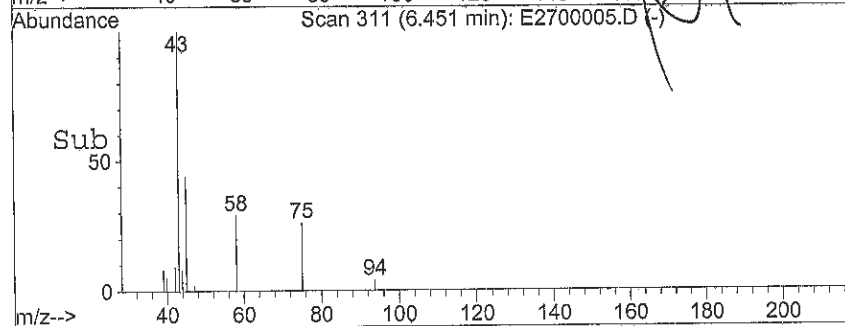
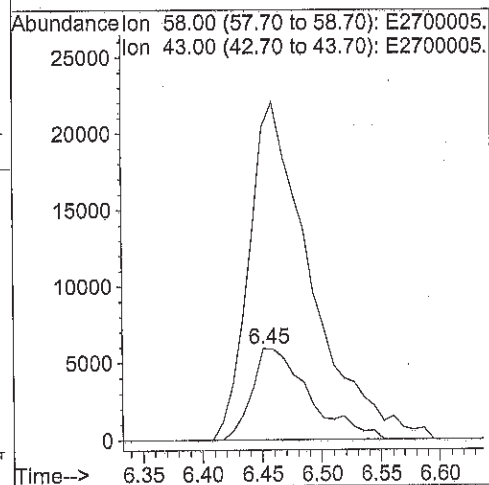
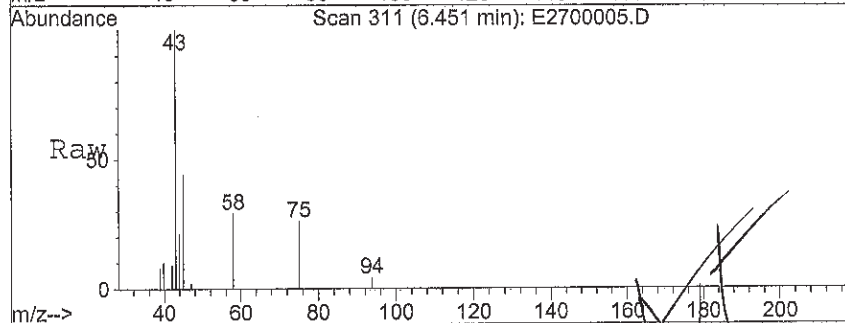
Tgt Ion: 64 Resp: 1933
 Ion Ratio Lower Upper
 64 100
 66 48.2 35.4 53.0





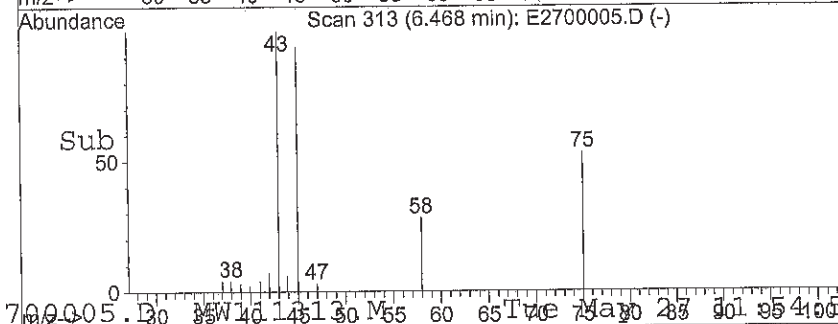
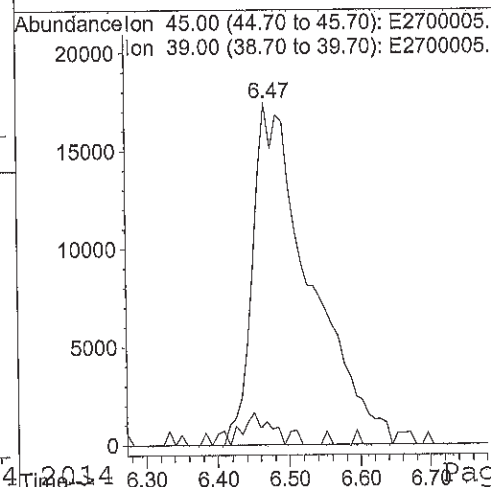
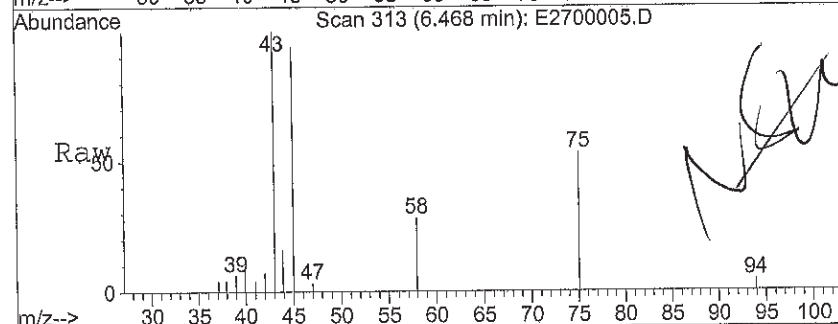
#11
Acetone
Concen: 25.28 ug/L
RT: 6.45 min Scan# 311
Delta R.T. -0.01 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

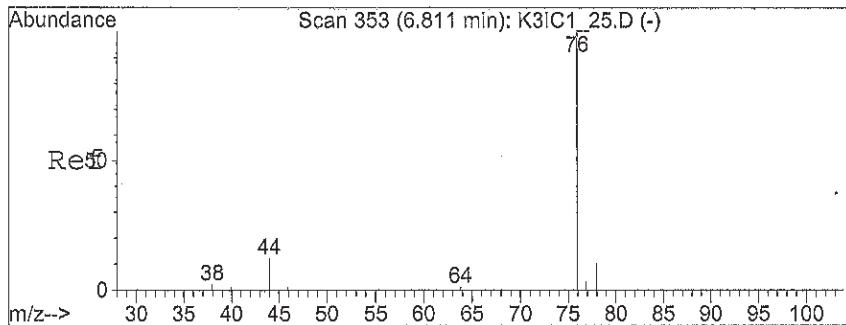
Tgt Ion: 58 Resp: 19721
Ion Ratio Lower Upper
58 100
43 402.6 360.9 541.3



#12
(IPA) Leak Check Compound
Concen: 423.18 ug/L
RT: 6.47 min Scan# 313
Delta R.T. -0.07 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

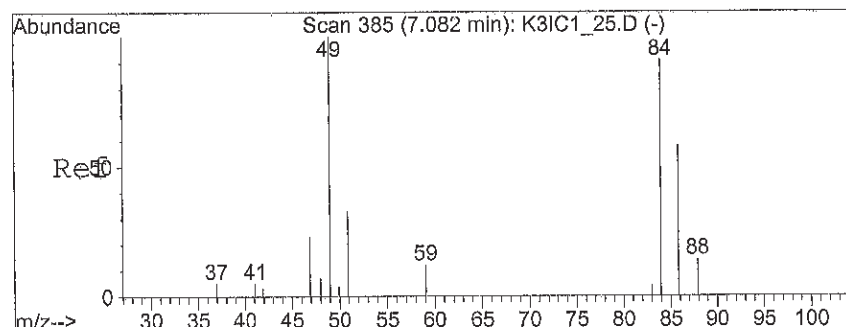
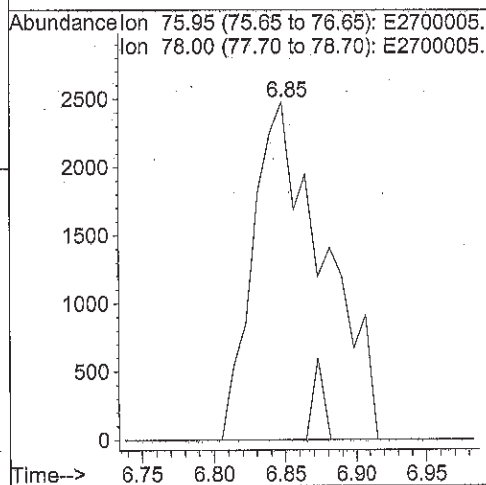
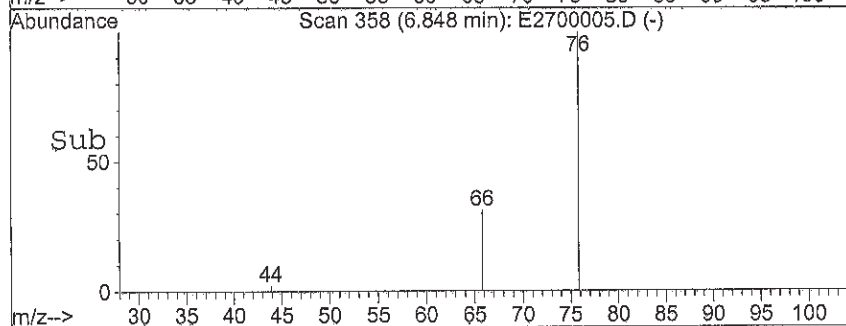
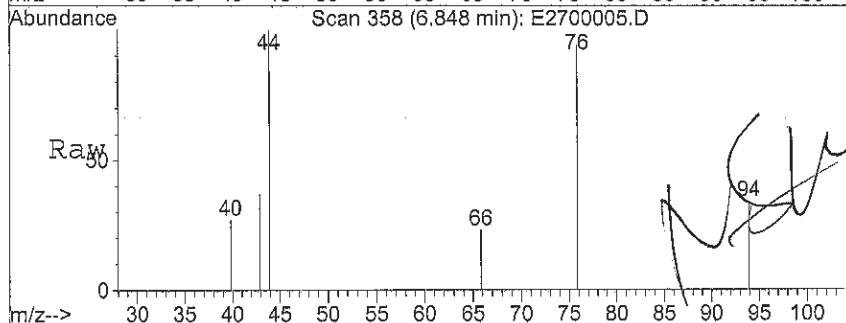
Tgt Ion: 45 Resp: 97295
Ion Ratio Lower Upper
45 100
39 4.2 4.9 7.3#





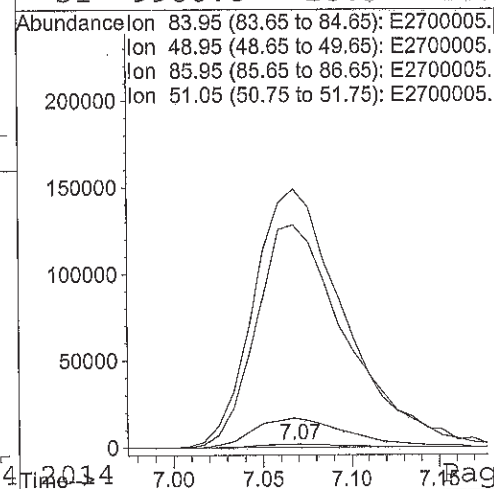
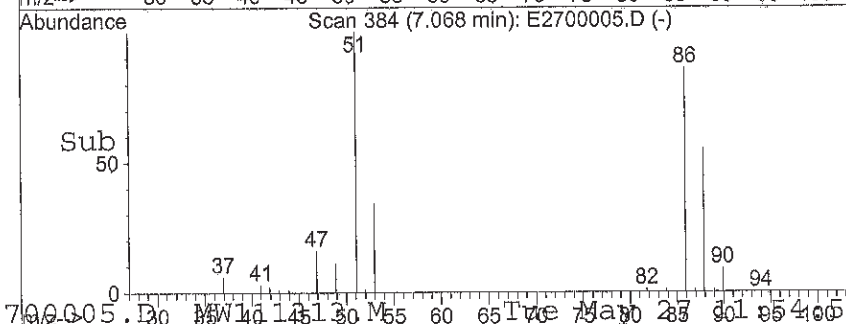
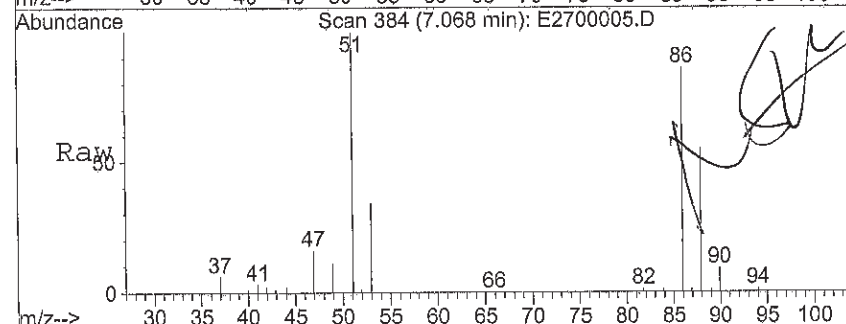
#13
Carbon disulfide
Concen: 0.54 ug/L
RT: 6.85 min Scan# 358
Delta R.T. 0.04 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

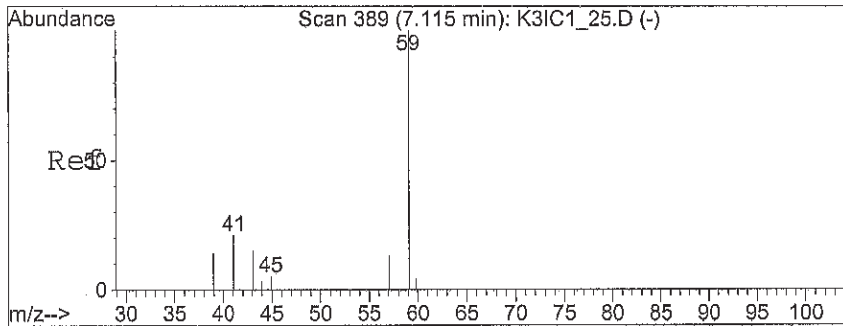
Tgt Ion: 76 Resp: 8578
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#14
Methylene Chloride
Concen: 1.03 ug/L
RT: 7.07 min Scan# 384
Delta R.T. -0.01 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

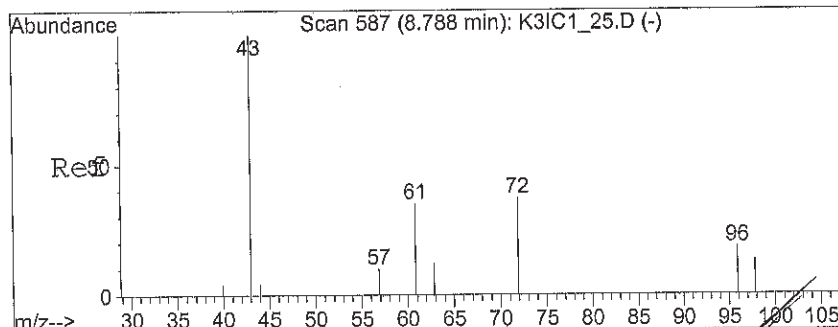
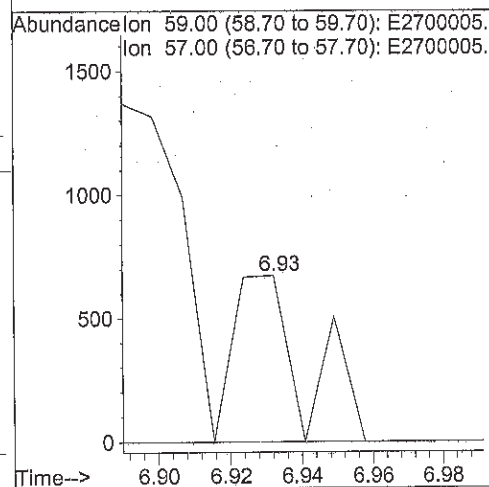
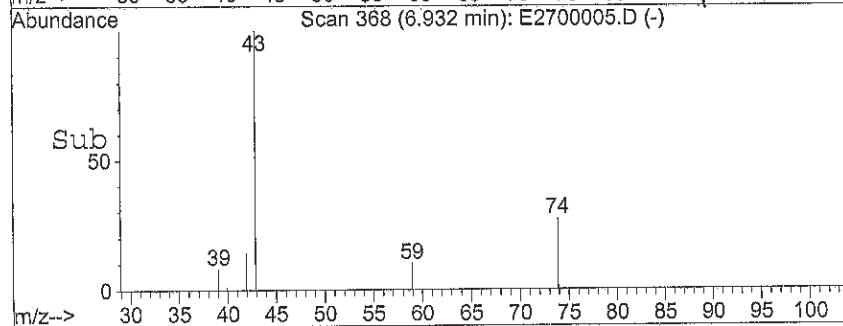
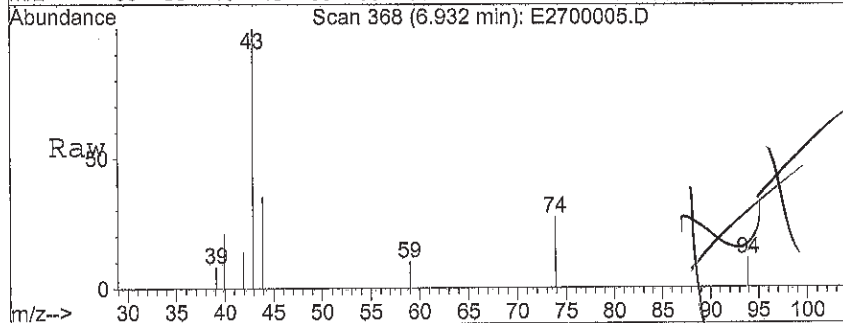
Tgt Ion: 84 Resp: 5435
Ion Ratio Lower Upper
84 100
49 1139.2 89.8 134.6#
86 8467.7 51.1 76.7#
51 9986.8 28.5 42.7#





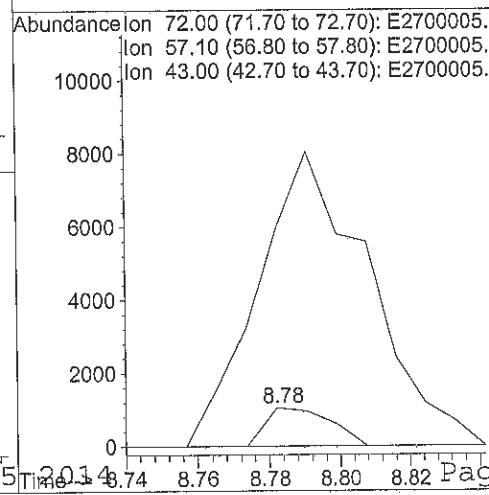
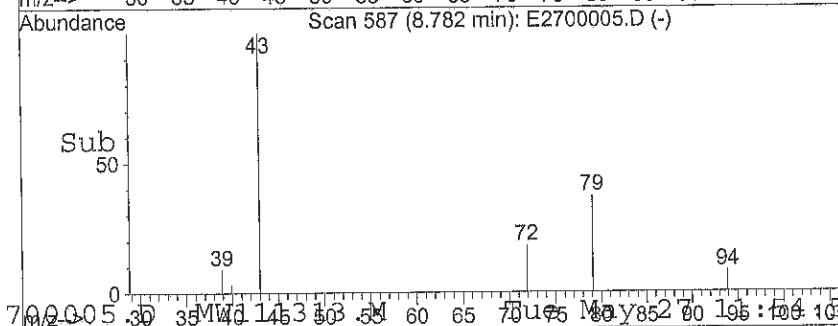
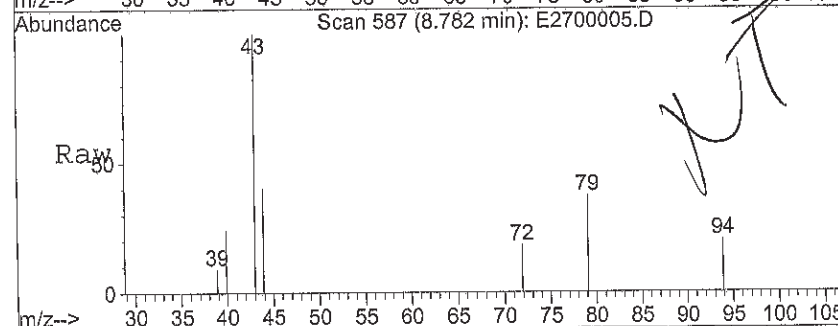
#15
 (TBA) tert-Butanol
 Concen: 2.87 ug/L
 RT: 6.93 min Scan# 368
 Delta R.T. -0.18 min
 Lab File: E2700005.D
 Acq: 27 May 2014 11:32 am

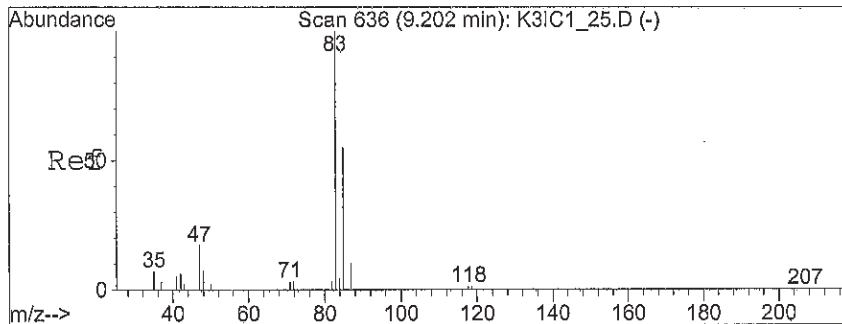
Tgt Ion: 59 Resp: 935
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#21
 (MEK) 2-Butanone
 Concen: 2.44 ug/L
 RT: 8.78 min Scan# 587
 Delta R.T. -0.01 min
 Lab File: E2700005.D
 Acq: 27 May 2014 11:32 am

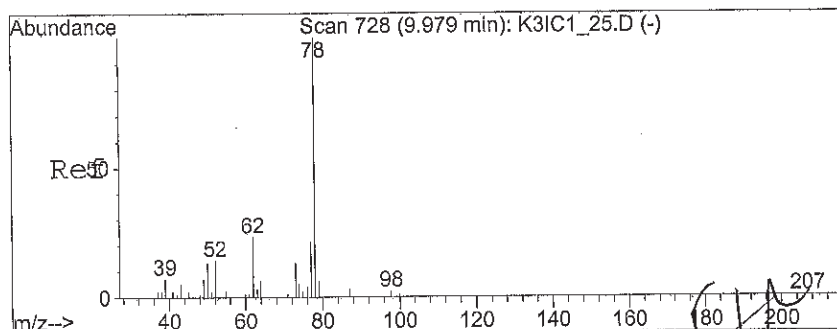
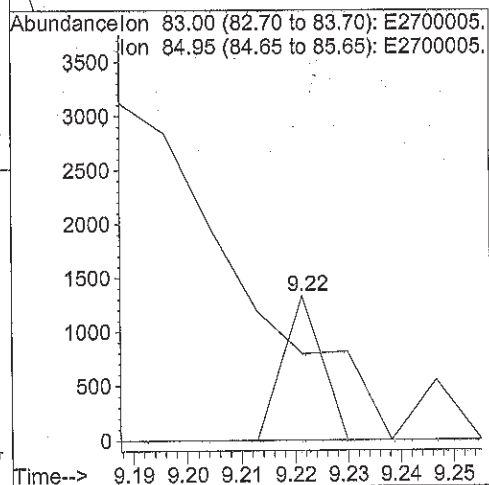
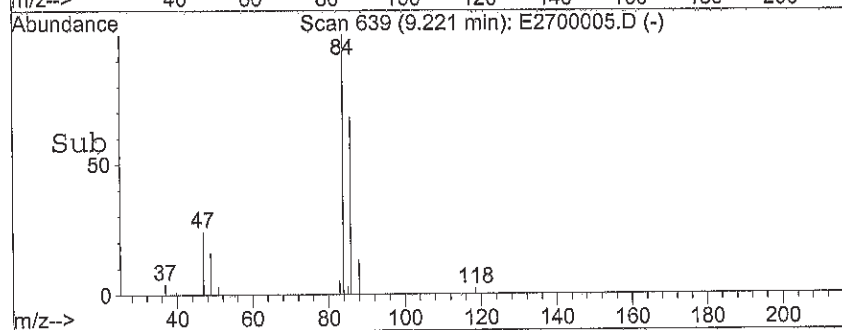
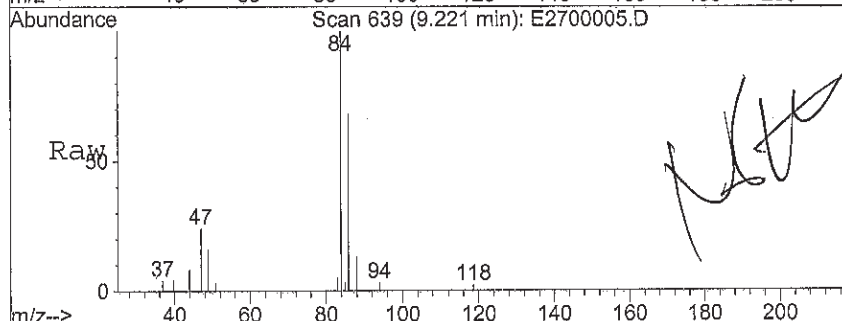
Tgt Ion: 72 Resp: 1310
 Ion Ratio Lower Upper
 72 100
 57 0.0 17.5 26.3#
 43 1335.3 314.2 471.2#





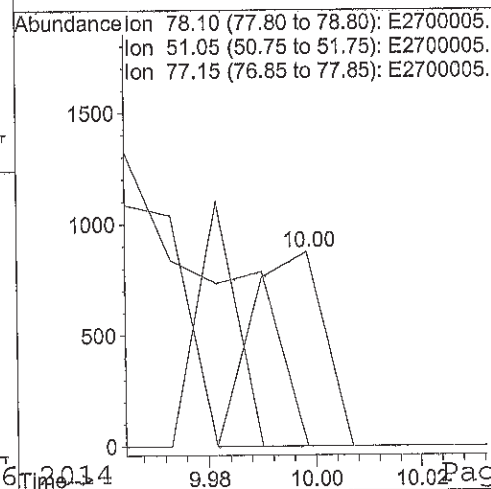
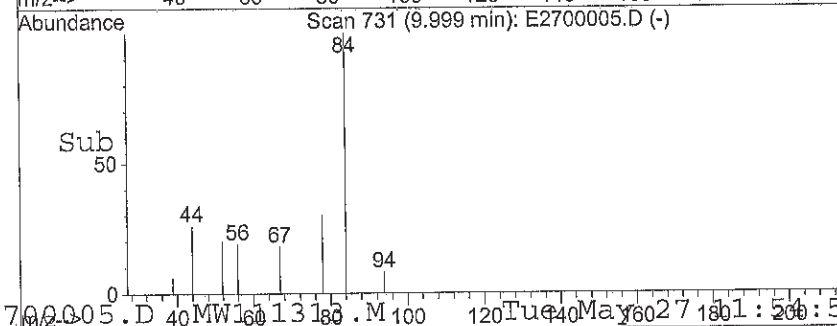
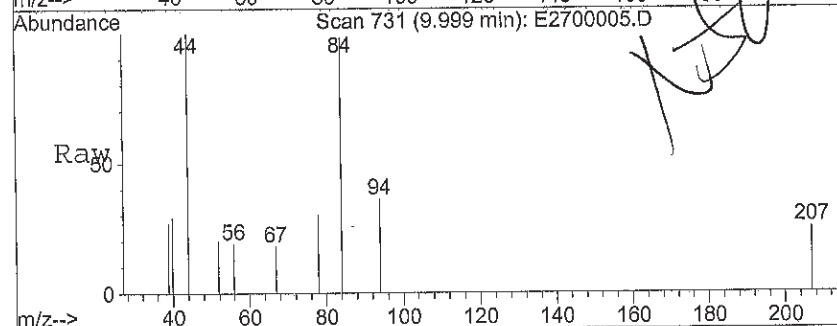
#24
Chloroform
Concen: 0.07 ug/L
RT: 9.22 min Scan# 639
Delta R.T. 0.02 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

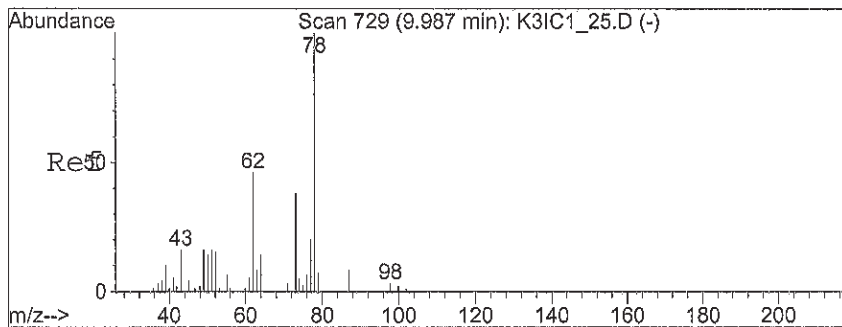
Tgt Ion: 83 Resp: 673
Ion Ratio Lower Upper
83 100
85 0.0 51.8 77.6#



#31
Benzene
Concen: 0.05 ug/L
RT: 10.00 min Scan# 731
Delta R.T. 0.02 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

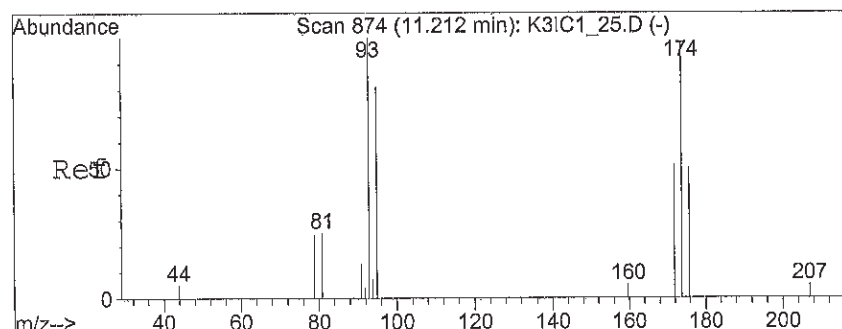
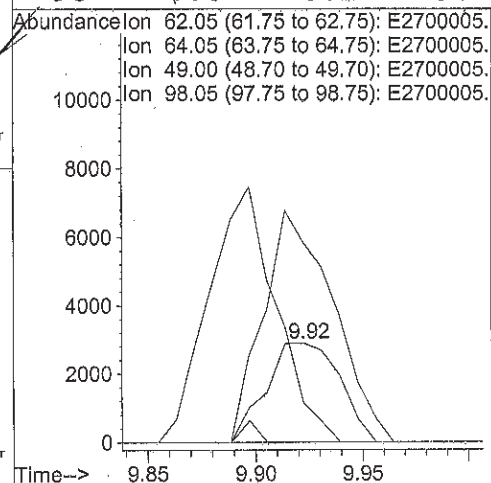
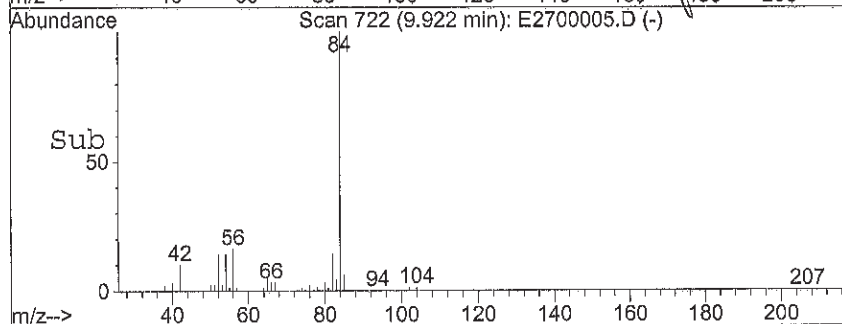
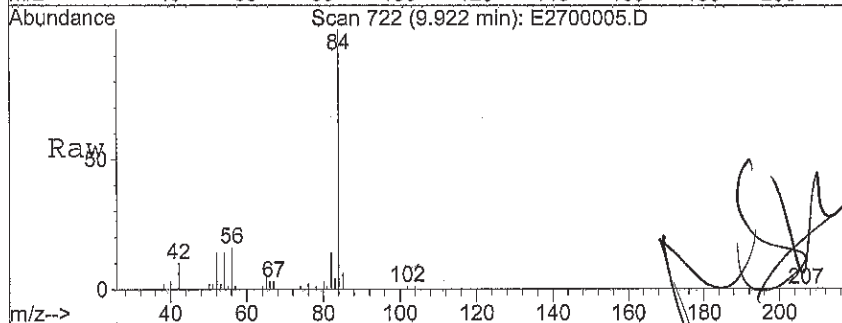
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Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 67.4 16.6 24.8#





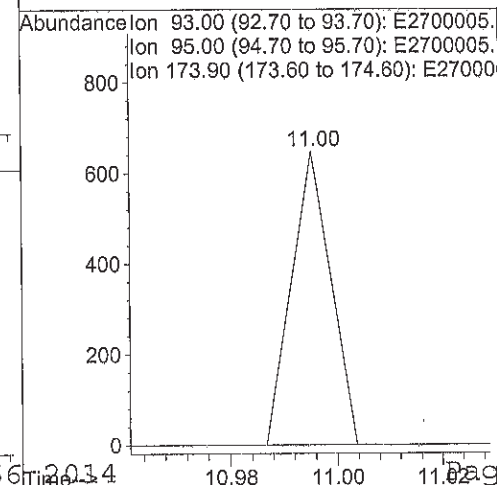
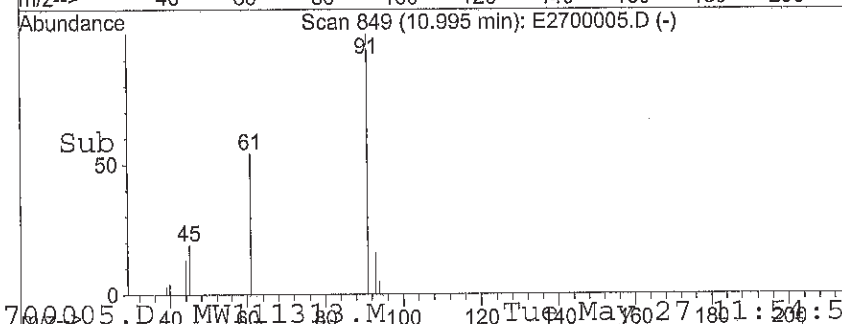
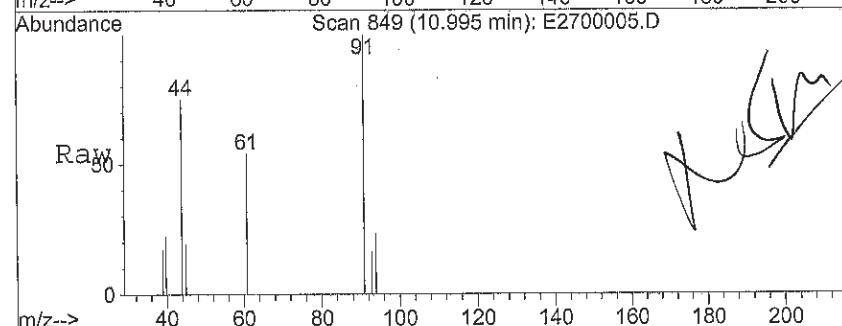
#32
1,2-Dichloroethane
Concen: 1.08 ug/L
RT: 9.92 min Scan# 722
Delta R.T. -0.06 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

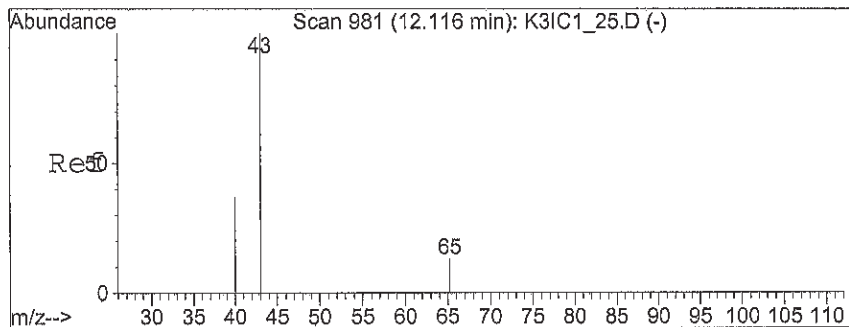
Tgt Ion:	62	Resp:	6852
Ion	Ratio	Lower	Upper
62	100		
64	224.0	28.0	42.0#
49	0.0	28.5	42.7#
98	0.0	6.2	9.4#



#35
Dibromomethane
Concen: 0.10 ug/L
RT: 11.00 min Scan# 849
Delta R.T. -0.22 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

Tgt Ion:	93	Resp:	328
Ion	Ratio	Lower	Upper
93	100		
95	0.0	66.2	99.2#
174	0.0	75.5	113.3#





#40

(MIBK) 4-Methyl-2-Pentanone

Concen: 2.93 ug/L

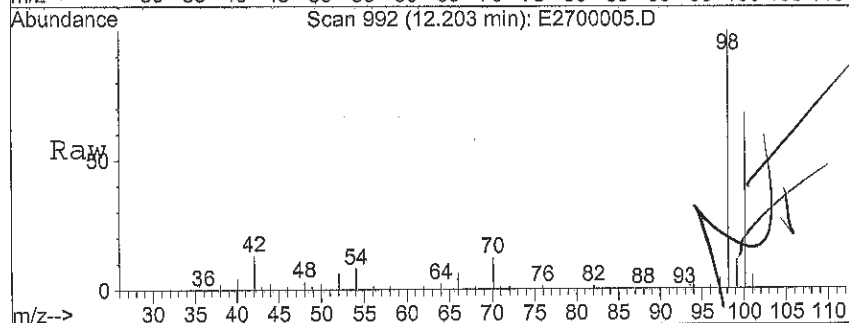
RT: 12.20 min Scan# 992

Delta R.T. 0.09 min

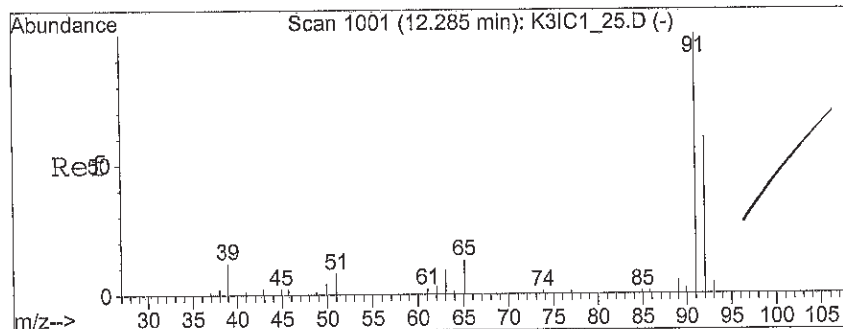
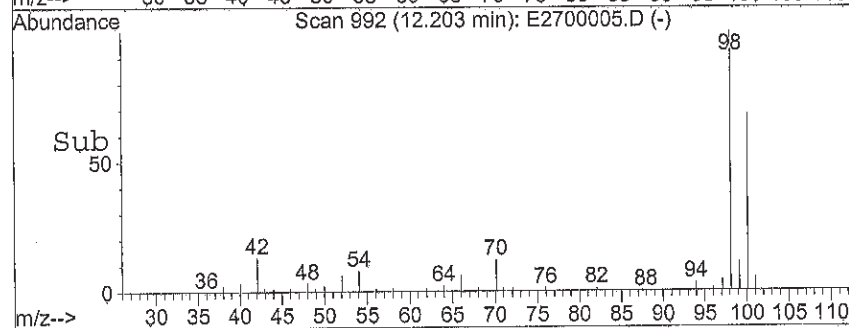
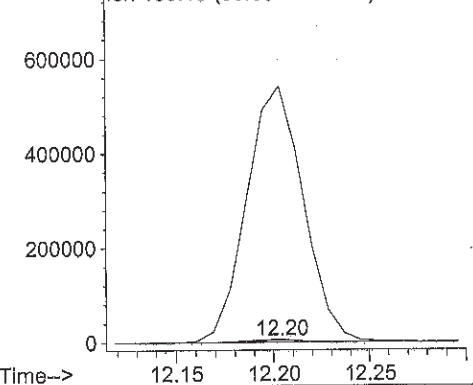
Lab File: E2700005.D

Acq: 27 May 2014 11:32 am

Tgt Ion:	43	Resp:	8397
Ion Ratio	Lower	Upper	
43	100		
58	139.0	0.0	0.0#
85	0.0	0.0	0.0
100	13163.3	0.0	0.0#



Abundance Ion 43.00 (42.70 to 43.70): E2700005.
Ion 58.10 (57.80 to 58.80): E2700005.
Ion 85.05 (84.75 to 85.75): E2700005.
Ion 100.15 (99.85 to 100.85): E2700005.



#41

Toluene

Concen: 0.57 ug/L

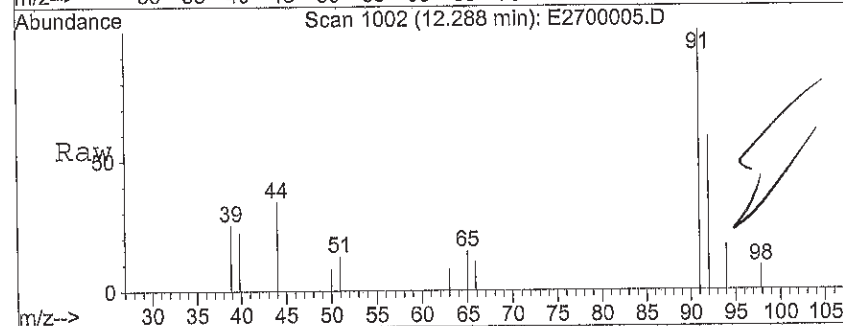
RT: 12.29 min Scan# 1002

Delta R.T. 0.00 min

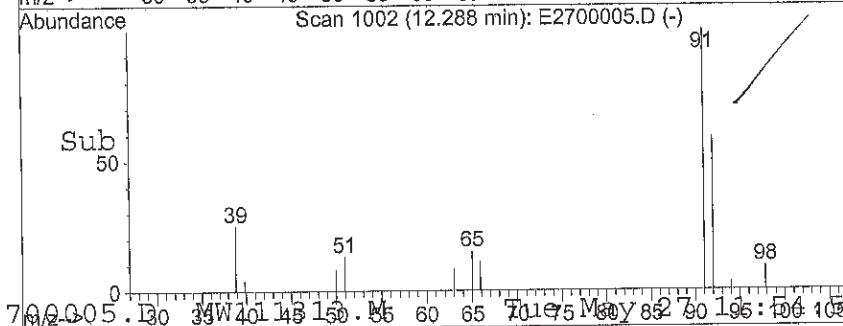
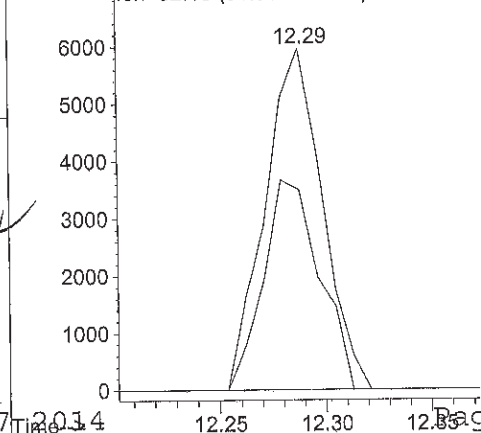
Lab File: E2700005.D

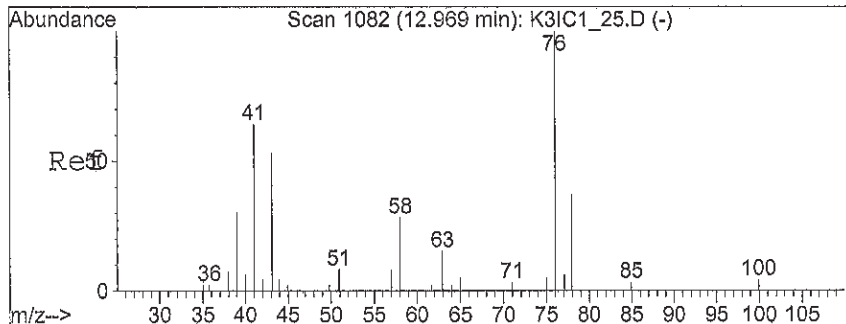
Acq: 27 May 2014 11:32 am

Tgt Ion:	91	Resp:	11160
Ion Ratio	Lower	Upper	
91	100		
92	60.3	47.4	71.0

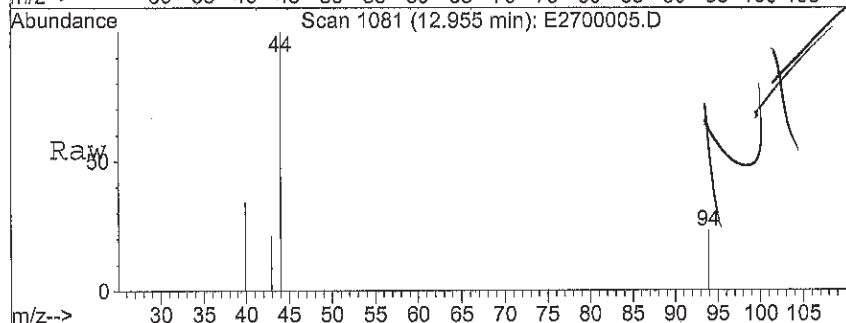


Abundance Ion 91.10 (90.80 to 91.80): E2700005.
Ion 92.10 (91.80 to 92.80): E2700005.

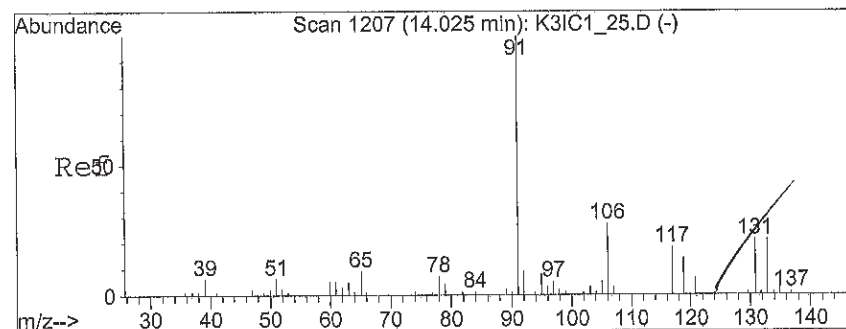
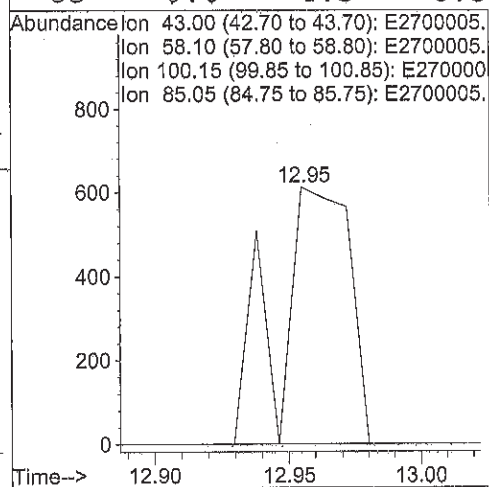
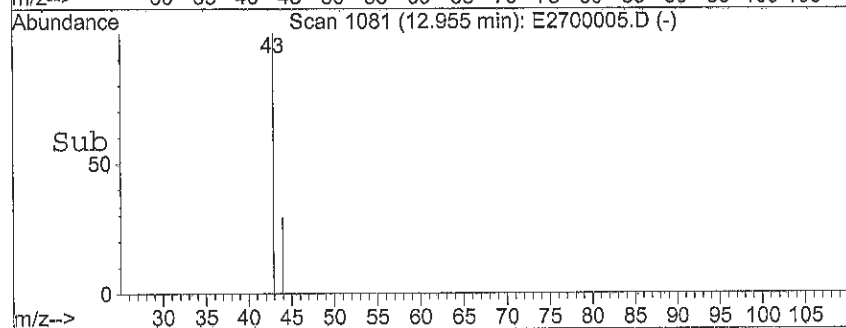




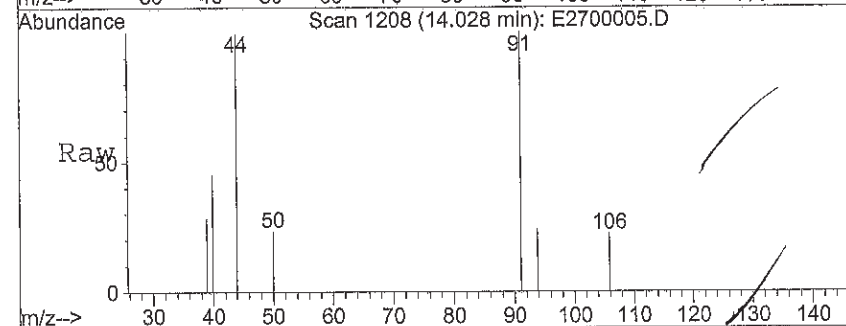
#46
2-Hexanone
Concen: 0.37 ug/L
RT: 12.95 min Scan# 1081
Delta R.T. -0.01 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am



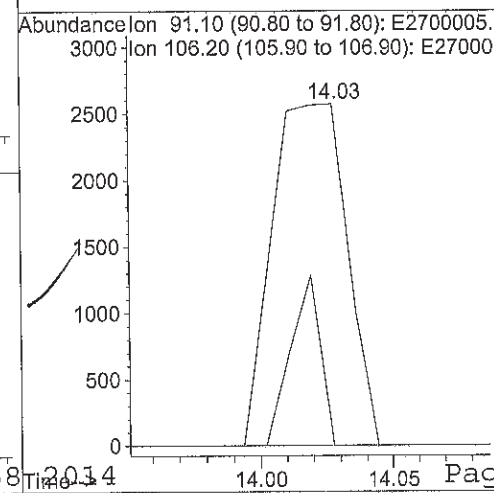
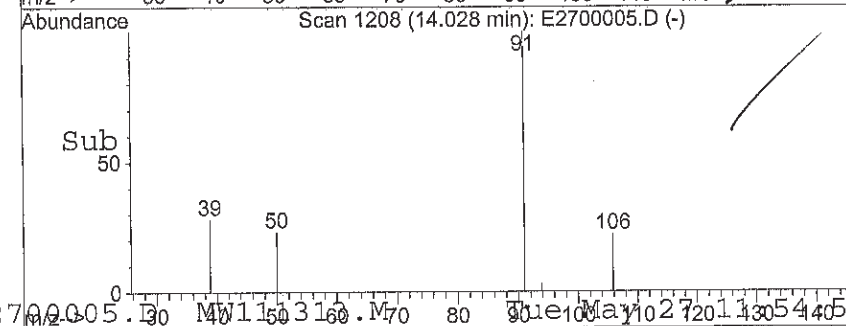
Tgt Ion: 43 Resp: 1151
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#

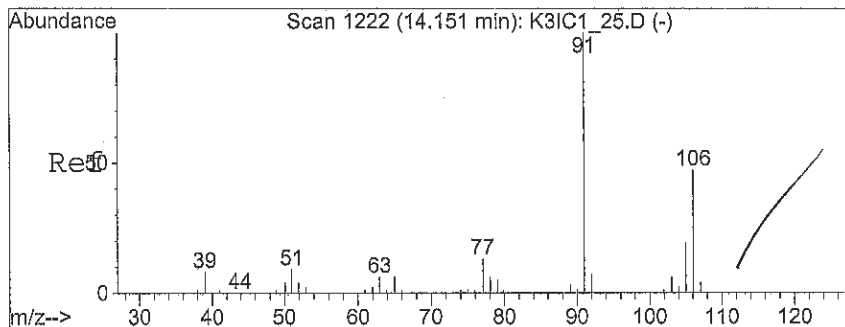


#51
Ethylbenzene
Concen: 0.22 ug/L
RT: 14.03 min Scan# 1208
Delta R.T. 0.00 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am



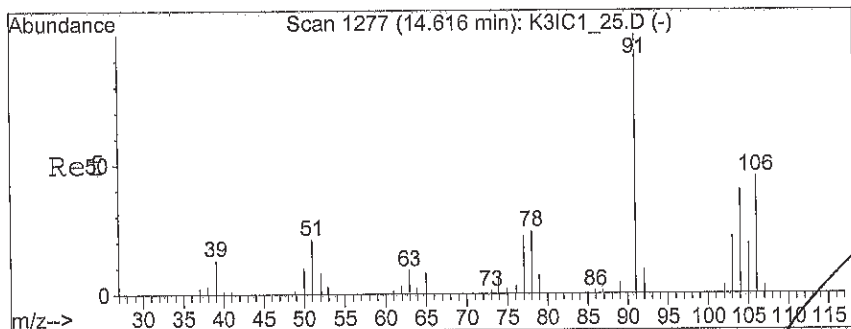
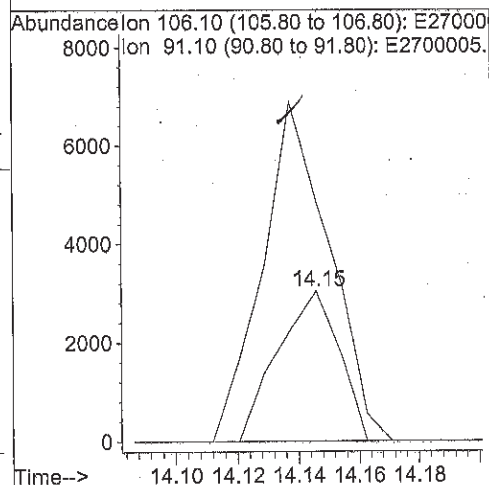
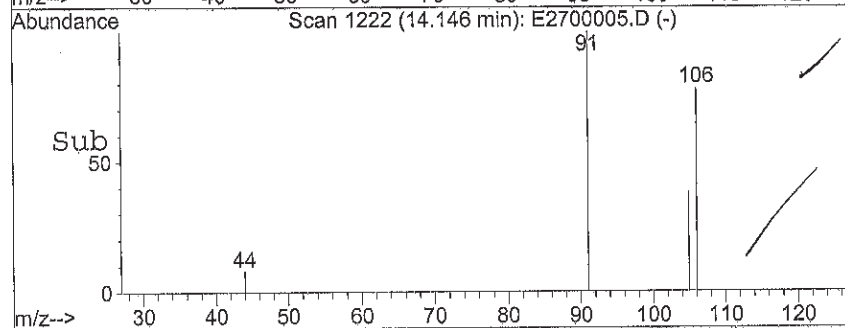
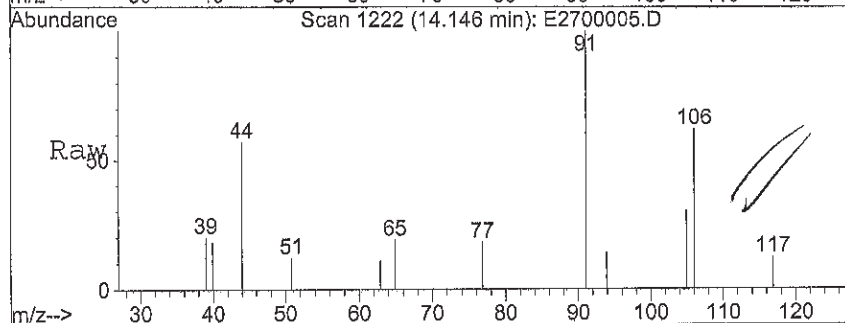
Tgt Ion: 91 Resp: 5010
Ion Ratio Lower Upper
91 100
106 19.9 23.5 35.3#





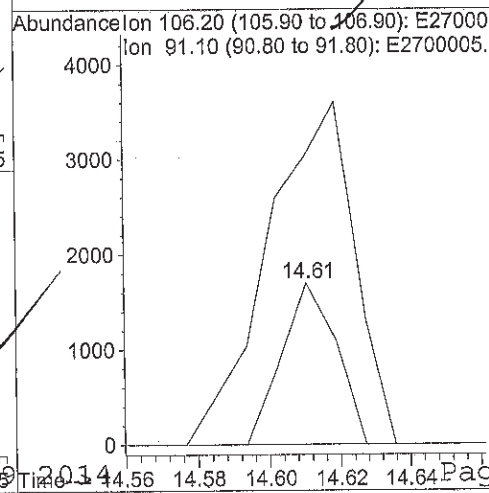
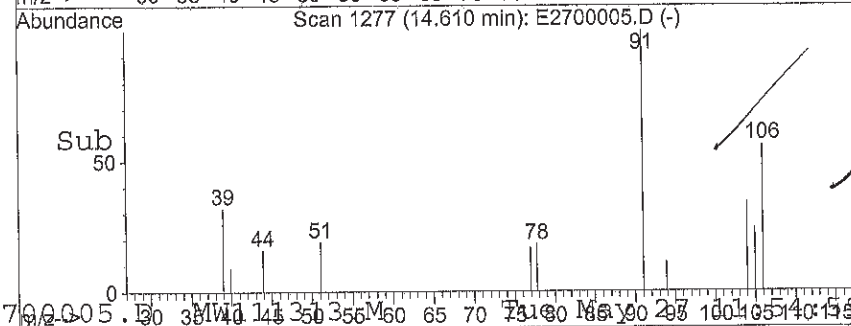
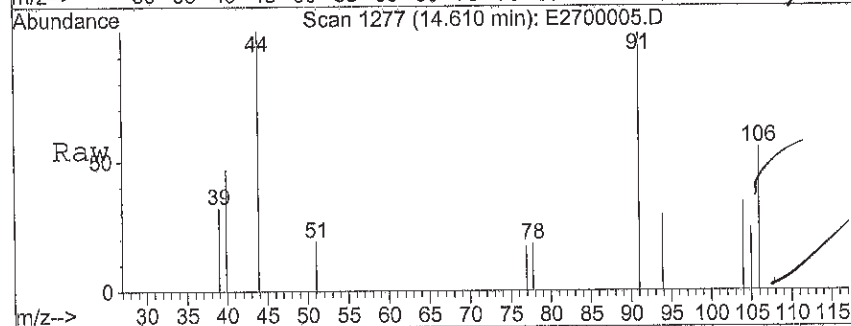
#52
m,p-Xylenes
Concen: 0.54 ug/L
RT: 14.15 min Scan# 1222
Delta R.T. -0.01 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

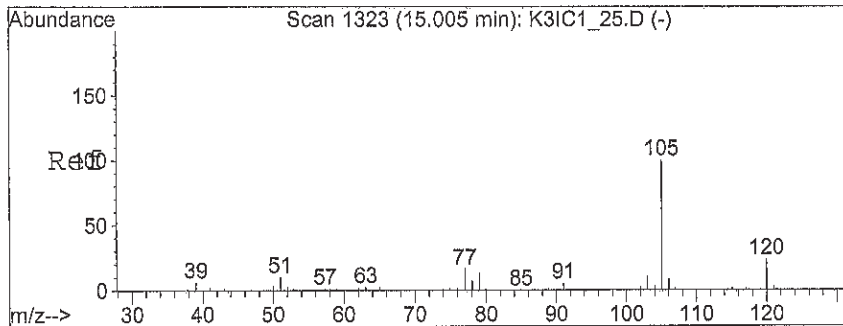
Tgt Ion:106 Resp: 4256
Ion Ratio Lower Upper
106 100
91 246.4 177.1 265.7



#53
o-Xylene
Concen: 0.23 ug/L
RT: 14.61 min Scan# 1277
Delta R.T. -0.01 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

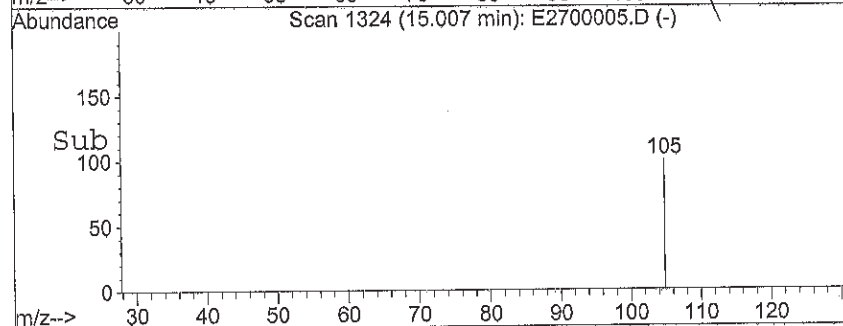
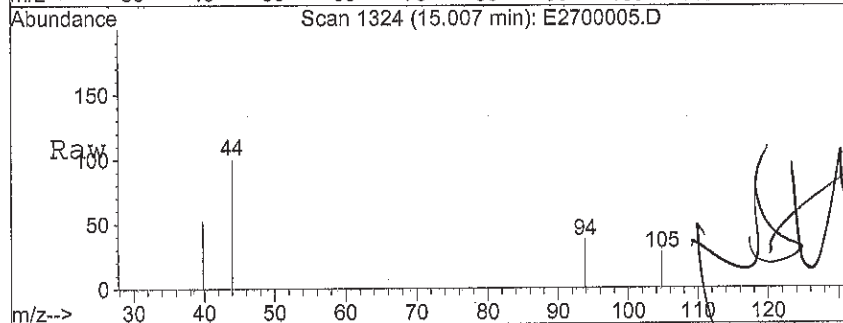
Tgt Ion:106 Resp: 1809
Ion Ratio Lower Upper
106 100
91 339.0 179.0 268.6#



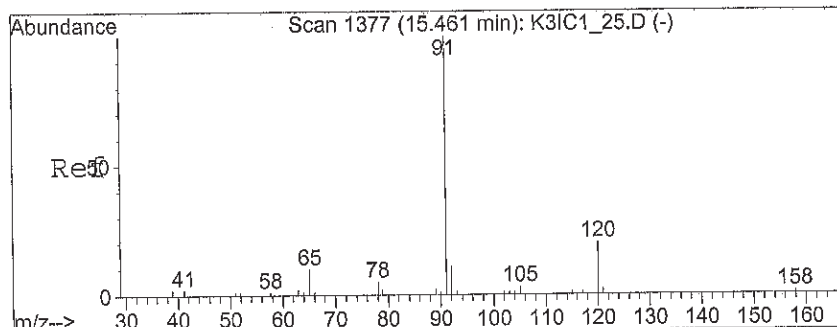
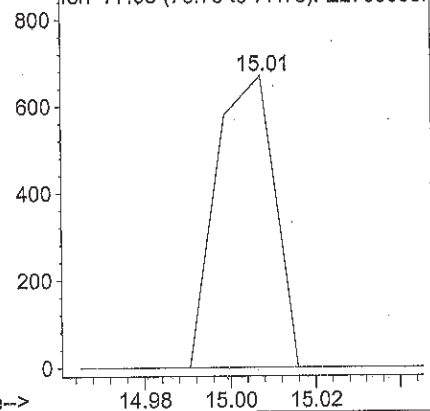


#56
Isopropylbenzene
Concen: 0.03 ug/L
RT: 15.01 min Scan# 1324
Delta R.T. 0.00 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

Tgt Ion: 105 Resp: 634
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 0.0 13.1 19.7#

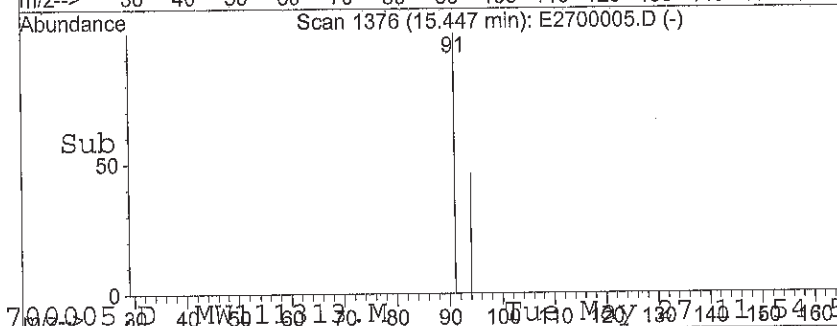
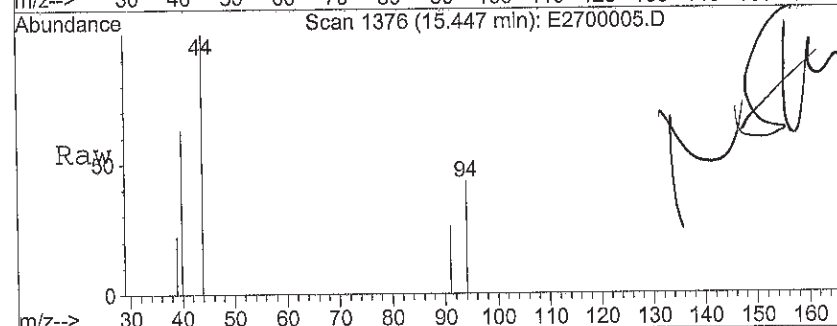


Abundance Ion 105.10 (104.80 to 105.80): E270000
Ion 120.15 (119.85 to 120.85): E270000
Ion 77.05 (76.75 to 77.75): E2700005.

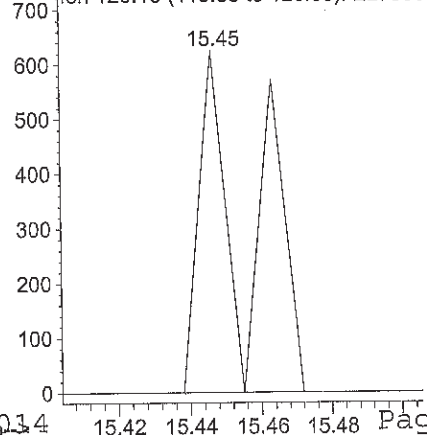


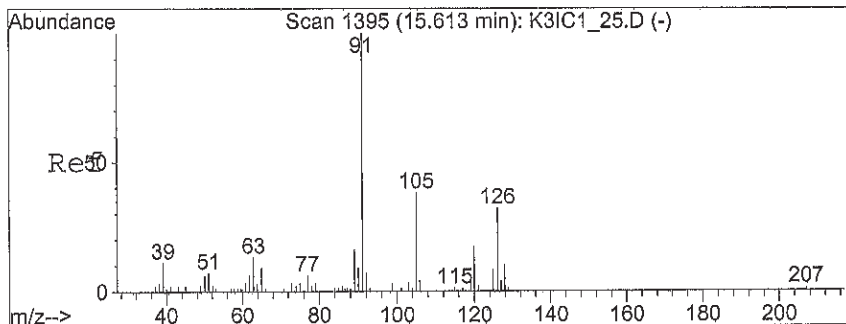
#62
n-Propylbenzene
Concen: 0.02 ug/L
RT: 15.45 min Scan# 1376
Delta R.T. -0.01 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

Tgt Ion: 91 Resp: 606
Ion Ratio Lower Upper
91 100
120 0.0 16.1 24.1#



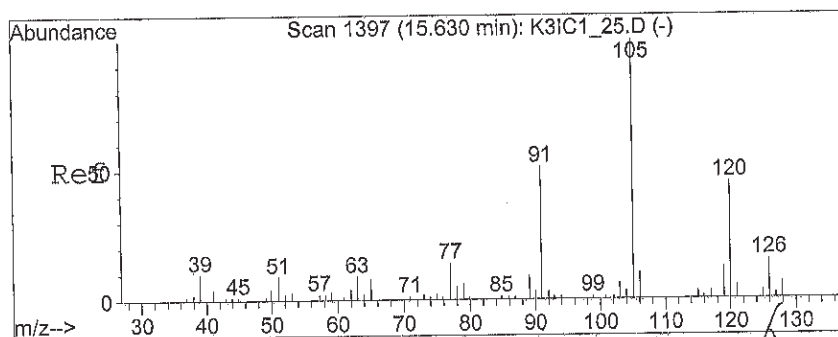
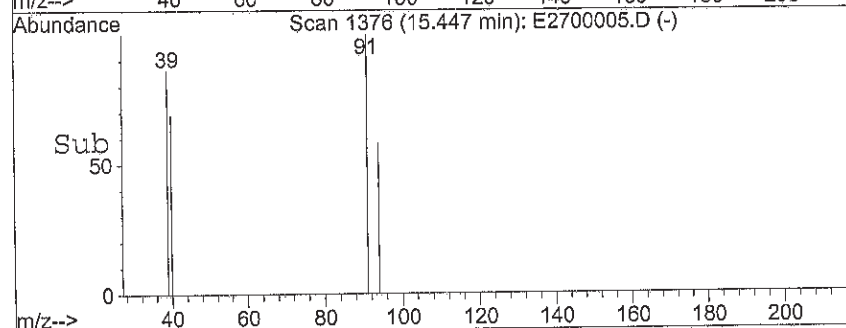
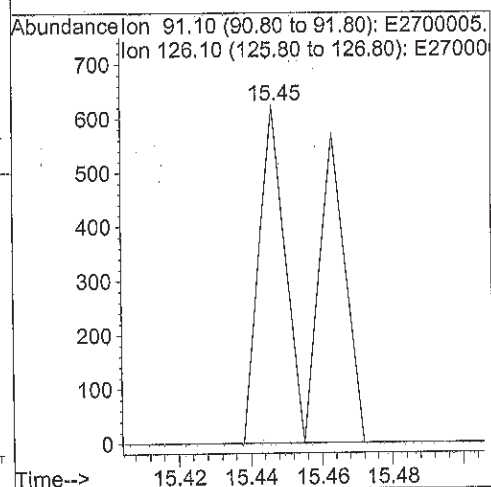
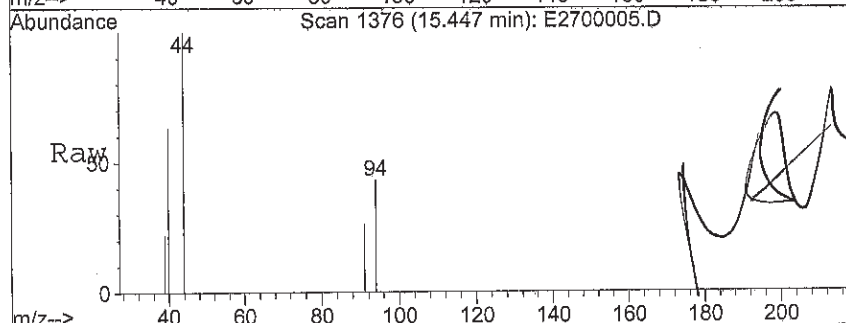
Abundance Ion 91.10 (90.80 to 91.80): E2700005.
Ion 120.15 (119.85 to 120.85): E270000





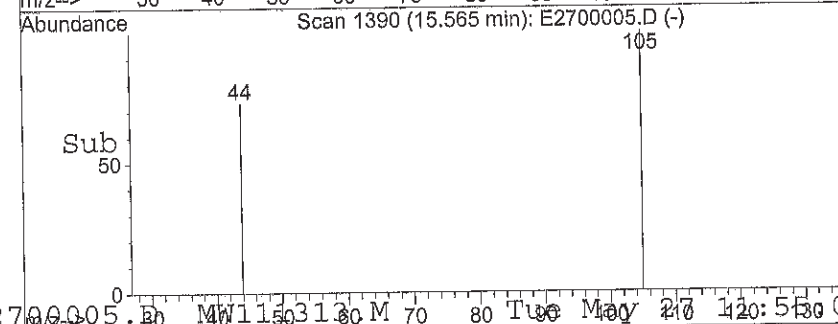
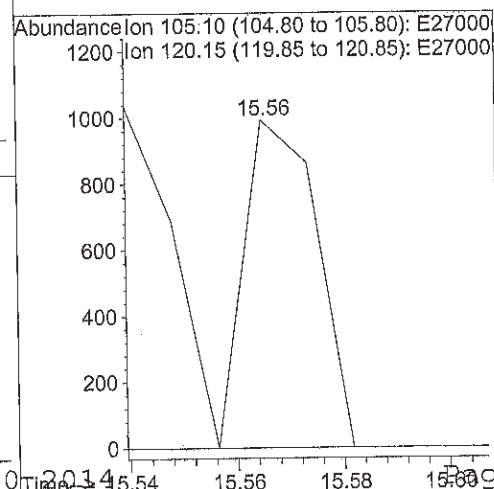
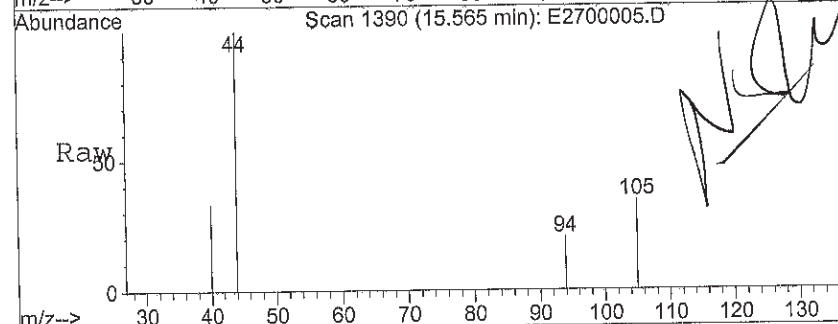
#63
2-Chlorotoluene
Concen: 0.03 ug/L
RT: 15.45 min Scan# 1376
Delta R.T. -0.17 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

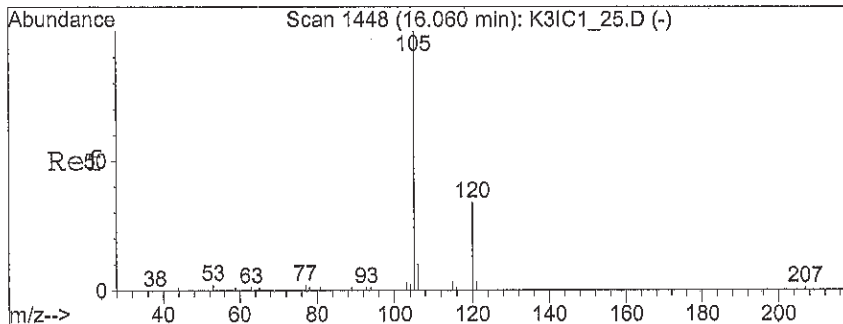
Tgt Ion: 91 Resp: 606
Ion Ratio Lower Upper
91 100
126 0.0 24.0 36.0#



#64
1,3,5-Trimethylbenzene
Concen: 0.05 ug/L
RT: 15.56 min Scan# 1390
Delta R.T. -0.06 min
Lab File: E2700005.D
Acq: 27 May 2014 11:32 am

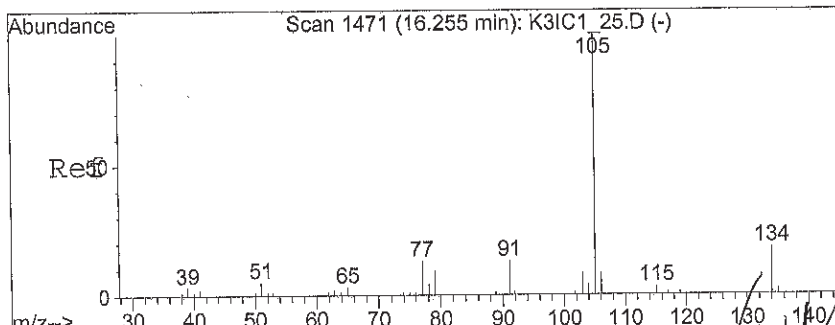
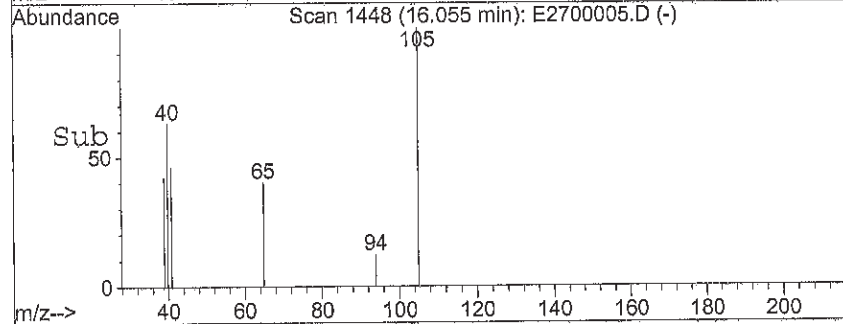
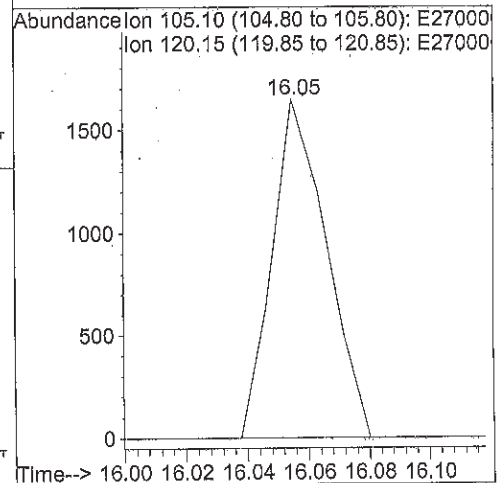
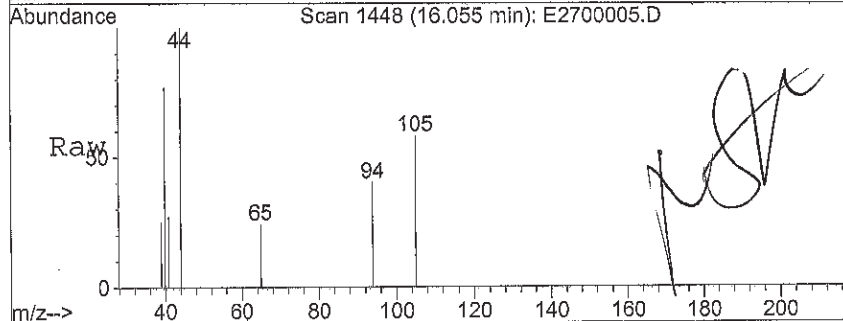
Tgt Ion: 105 Resp: 940
Ion Ratio Lower Upper
105 100
120 0.0 36.4 54.6#





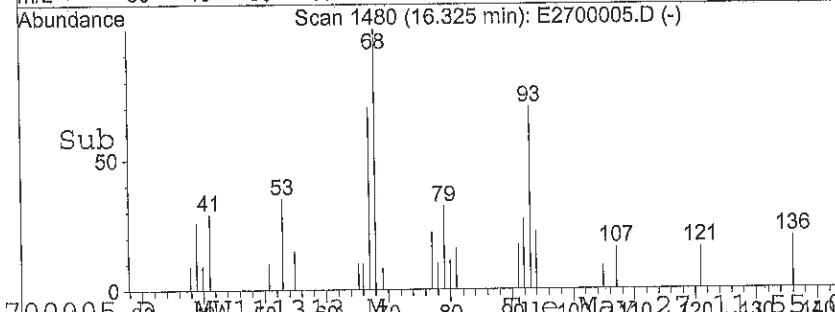
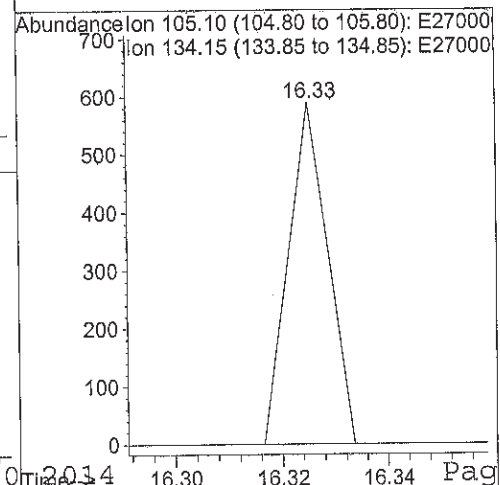
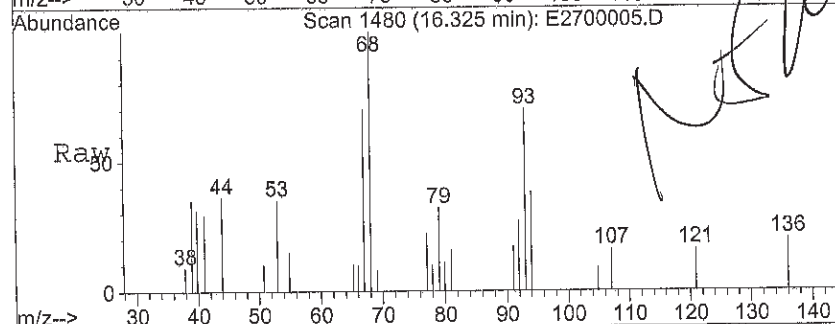
#67
 1,2,4-Trimethylbenzene
 Concen: 0.10 ug/L
 RT: 16.05 min Scan# 1448
 Delta R.T. -0.01 min
 Lab File: E2700005.D
 Acq: 27 May 2014 11:32 am

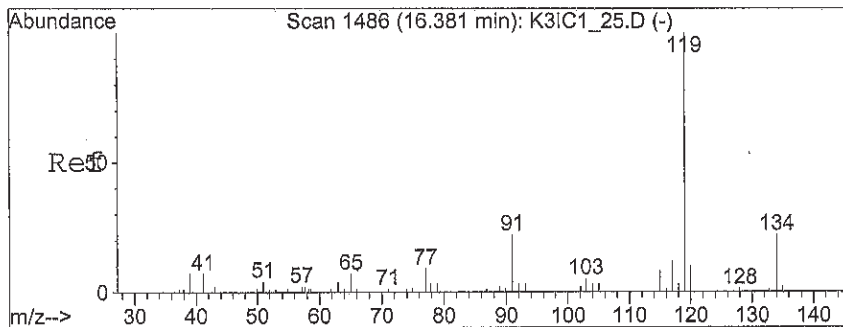
Tgt Ion:105 Resp: 2022
 Ion Ratio Lower Upper
 105 100
 120 0.0 33.8 50.8#



#68
 sec-Butylbenzene
 Concen: 0.01 ug/L
 RT: 16.33 min Scan# 1480
 Delta R.T. 0.07 min
 Lab File: E2700005.D
 Acq: 27 May 2014 11:32 am

Tgt Ion:105 Resp: 298
 Ion Ratio Lower Upper
 105 100
 134 0.0 13.0 19.6#





#69

p-Isopropyltoluene

Concen: 0.02 ug/L

RT: 16.38 min Scan# 1487

Delta R.T. 0.00 min

Lab File: E2700005.D

Acq: 27 May 2014 11:32 am

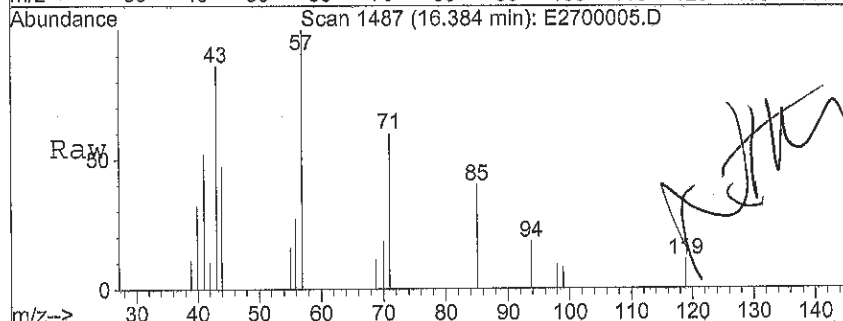
Tgt Ion:119 Resp: 345

Ion Ratio Lower Upper

119 100

134 0.0 17.4 26.2#

91 0.0 19.6 29.4#

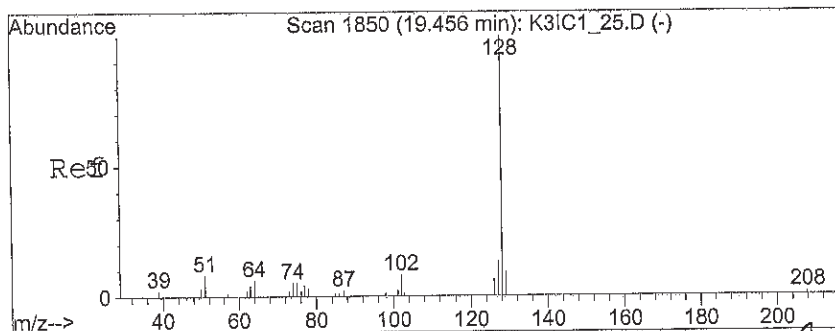
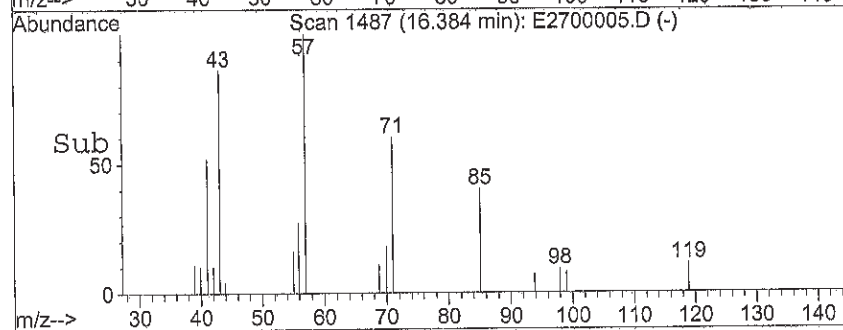
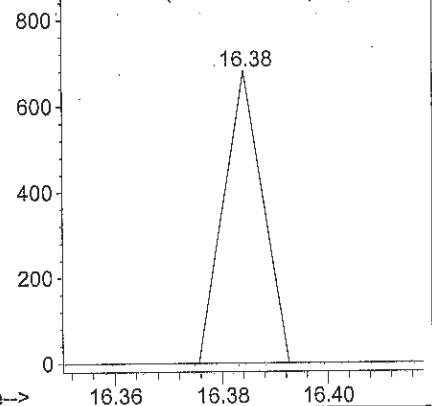


Abundance

Ion 119.15 (118.85 to 119.85): E27000

Ion 134.15 (133.85 to 134.85): E27000

Ion 91.10 (90.80 to 91.80): E2700005.



#77

Naphthalene

Concen: 0.03 ug/L

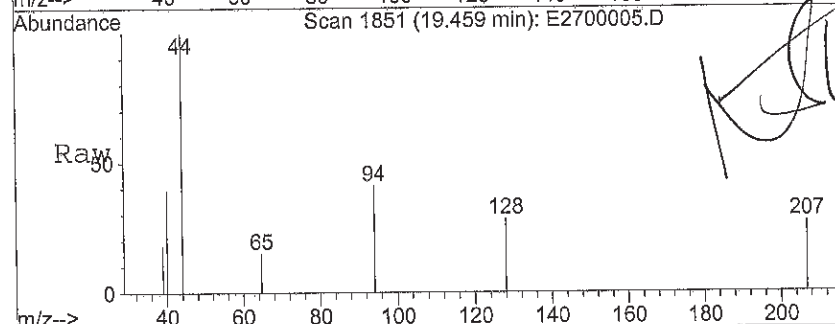
RT: 19.46 min Scan# 1851

Delta R.T. 0.00 min

Lab File: E2700005.D

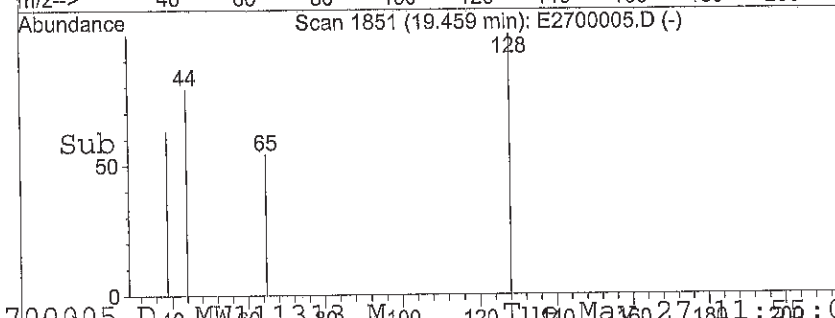
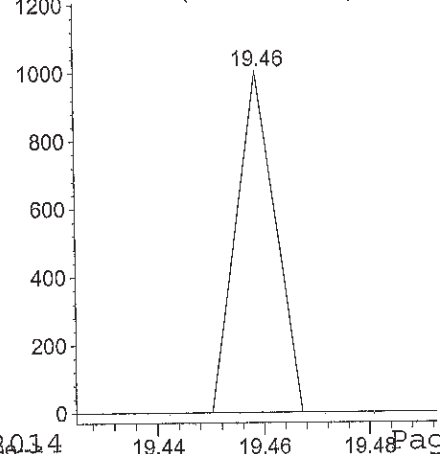
Acq: 27 May 2014 11:32 am

Tgt Ion:128 Resp: 509



Abundance

Ion 128.10 (127.80 to 128.80): E270000



Data File : C:\HPCHEM\1\DATA\052714L3\E2700005.D

Vial: 4

Acq On : 27 May 2014 11:32 am

Operator: DN

Sample : 3E42701-04

Inst : GC/MS Ins

Misc : 100cc SVL-502-SA5D-SV-13.0-14.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 11:55 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1913339	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.92	117	1436297	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	745284	12.50	ug/L	-0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	533258	10.72	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	85.76%
3) Chloroform-d (SU6)	9.18	84	797105	11.16	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	89.28%
4) Methylene Chloride-d2 (SU5)	7.07	86	460219	11.03	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	88.24%
5) 1,2-Dichloroethane-d4 (SU2)	9.89	65	505491	14.86	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	118.88%
6) Benzene-d6 (SU7)	9.92	84	1555063	10.36	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	82.88%
8) Toluene-d8 (SU3)	12.20	98	1639551	12.03	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.24%
9) 4-Bromofluorobenzene (SU4)	15.22	95	764175	13.58	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	108.64%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700005.D SS072713.M

Tue May 27 11:55:42 2014

Page 1

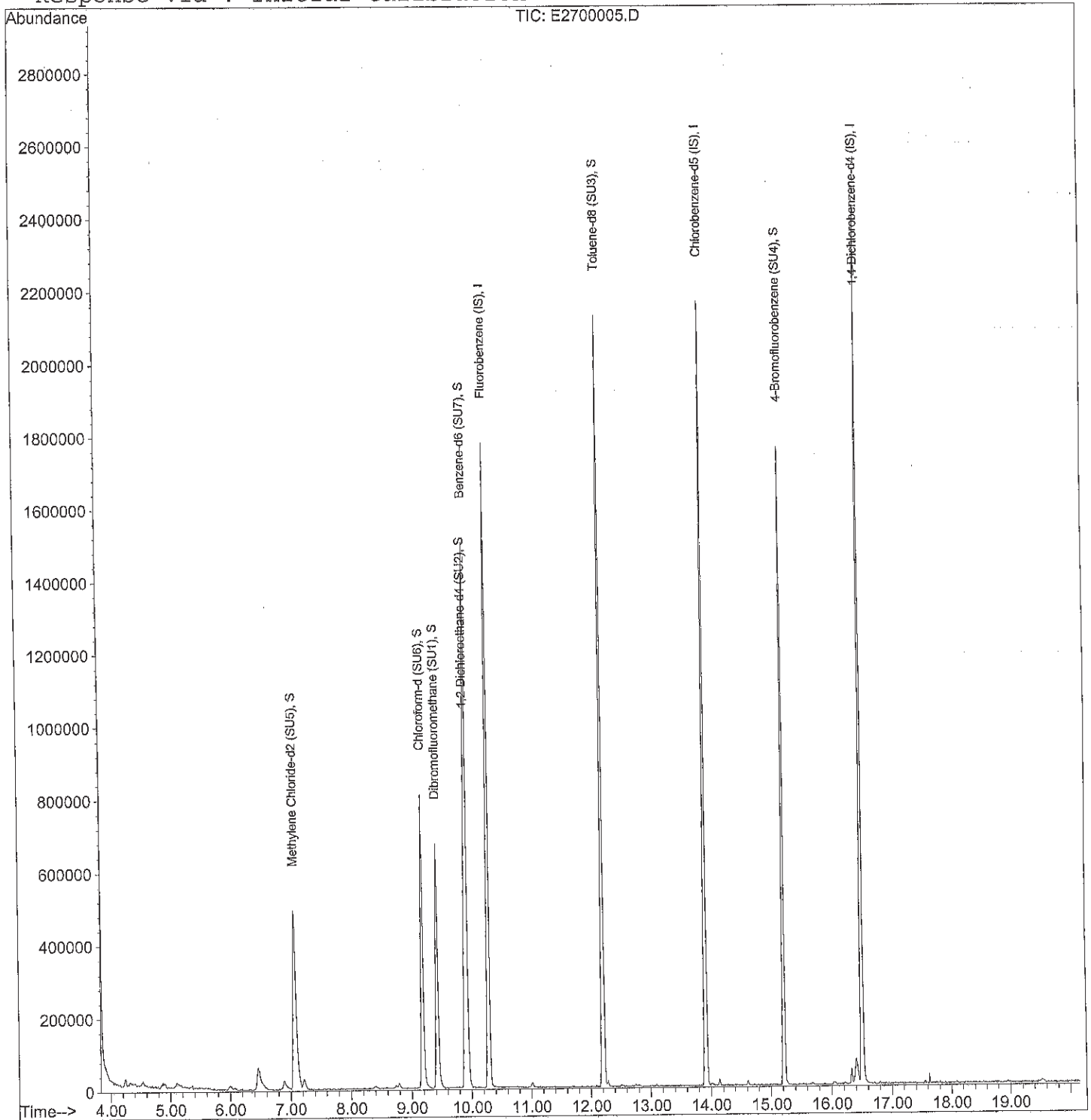
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700005.D
 Acq On : 27 May 2014 11:32 am
 Sample : 3E42701-04
 Misc : 100cc SVL-502-SA5D-SV-13.0-14.0
 MS Integration Params: rteint.p
 Quant Time: May 27 11:55 19114

Vial: 4
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E2700006.D

Vial: 5

Acq On : 27 May 2014 12:03 pm

Operator: DN

Sample : 3E42701-05

Inst : GC/MS Ins

Misc : 100cc SVL-502-SA5D-SV-18.0-19.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 12:35 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1697668	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1272990	12.50	ug/L	-0.01
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	687505	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	477777	11.28	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	90.24%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	480401	11.94	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.52%
39) Toluene-d8 (SU3)	12.20	98	1488174	12.53	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	100.24%
58) 4-Bromofluorobenzene (SU4)	15.22	95	713802	13.71	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	109.68%

Target Compounds

					Qvalue
4) Chloromethane	4.40	50	12801	3.28 ug/L	#T 78
6) Bromomethane	5.07	96	20579	9.24 ug/L	#T 80
7) Chloroethane	5.20	64	2815	2.68 ug/L	0.052 96
11) Acetone	6.46	58	18648	27.79 ug/L	#T 88
12) (IPA) Leak Check Compound	6.48	45	167240	819.81 ug/L	#T 87
13) Carbon disulfide	6.84	76	5168	0.37 ug/L	#T 76
14) Methylene Chloride	7.07	84	5115	1.10 ug/L	#T 1
15) (TBA) tert-Butanol	6.88	59	4938	17.05 ug/L	#T 77
21) (MEK) 2-Butanone	8.80	72	578	1.21 ug/L	#T 1
24) Chloroform	9.22	83	2352	0.26 ug/L	#T 18
25) (ETBE) 2-ethoxy 2-methyl p	8.51	59	2935	0.24 ug/L	#T 44
29) 1,1-Dichloropropene	9.92	75	965	0.15 ug/L	#T 1
31) Benzene	9.99	78	497	0.03 ug/L	#T 57
32) 1,2-Dichloroethane	9.92	62	6166	1.09 ug/L	#T 1
40) (MIBK) 4-Methyl-2-Pentanone	12.19	43	8241	3.24 ug/L	#T 100
41) Toluene	12.29	91	6030	0.35 ug/L	0.007 93
46) 2-Hexanone	12.96	43	1149	0.41 ug/L	#T 37
51) Ethylbenzene	14.03	91	3922	0.20 ug/L	#T 0.004 62
52) m,p-Xylenes	14.15	106	4083	0.58 ug/L	0.011 80
53) o-Xylene	14.61	106	1001	0.14 ug/L	#T 0.002 81
54) Styrene	14.61	104	1217	-0.75 ug/L	#T 10
56) Isopropylbenzene	15.21	105	1266	0.07 ug/L	#T 1

(#)=qualifier out of range (m)=manual integration

E2700006.D MW111313.M

Tue May 27 12:35:21 2014

Page 1

Data File : C:\HPCHEM\1\DATA\052714L3\E2700006.D

Vial: 5

Acq On : 27 May 2014 12:03 pm

Operator: DN

Sample : 3E42701-05

Inst : GC/MS Ins

Misc : 100cc SVL-502-SA5D-SV-18.0-19.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 12:35 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
62) n-Propylbenzene	15.45	91	1050	0.04	ug/L #	56
63) 2-Chlorotoluene	15.45	91	1050	0.06	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.62	105	277	0.02	ug/L #	31
66) tert-Butylbenzene	16.05	119	331	0.02	ug/L #	24
67) 1,2,4-Trimethylbenzene	16.05	105	2752	0.15	ug/L #	55 0.003
68) sec-Butylbenzene	16.33	105	314	0.01	ug/L #	62
69) p-Isopropyltoluene	16.38	119	365	0.02	ug/L #	52
77) Naphthalene	19.44	128	337	0.02	ug/L	100

(#) = qualifier out of range (m) = manual integration

E2700006.D MW111313.M

Tue May 27 12:35:22 2014

Page 2

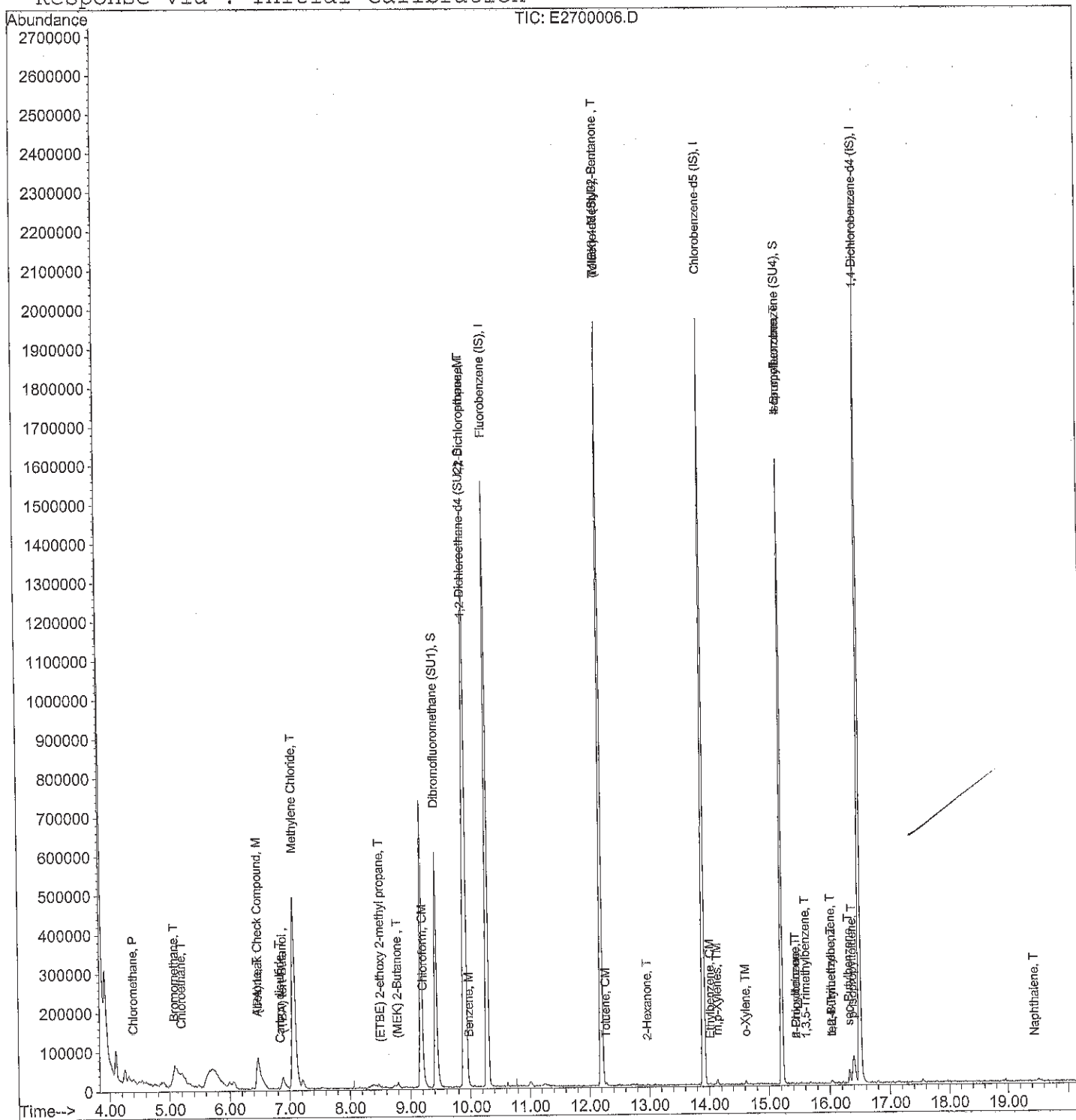
Quantitation Report

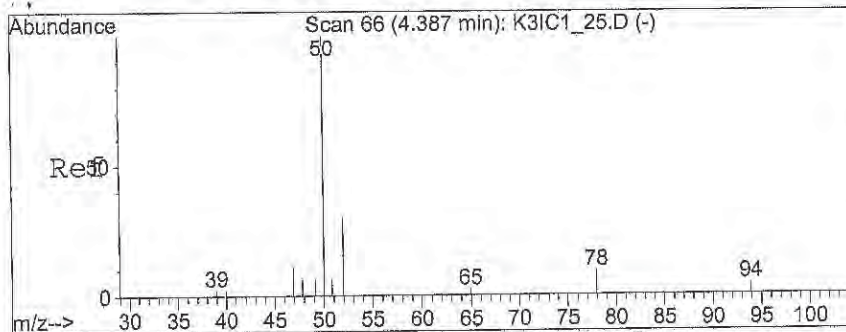
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 Acq On : 27 May 2014 12:03 pm
 Sample : 3E42701-05
 Misc : 100cc SVL-502-SA5D-SV-18.0-19.0
 MS Integration Params: rteint.p
 Quant Time: May 27 12:35 19114

Vial: 5
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

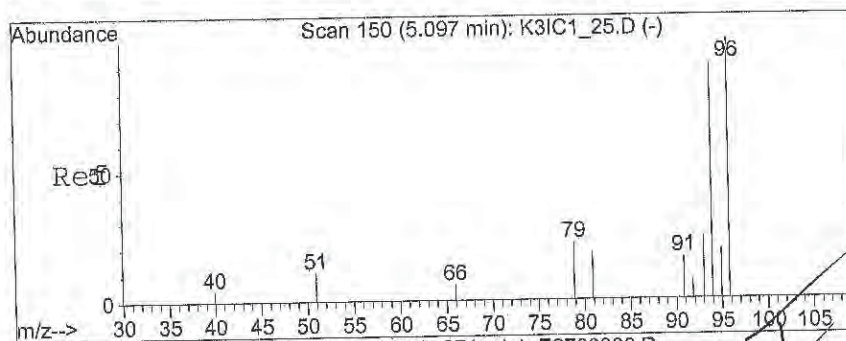
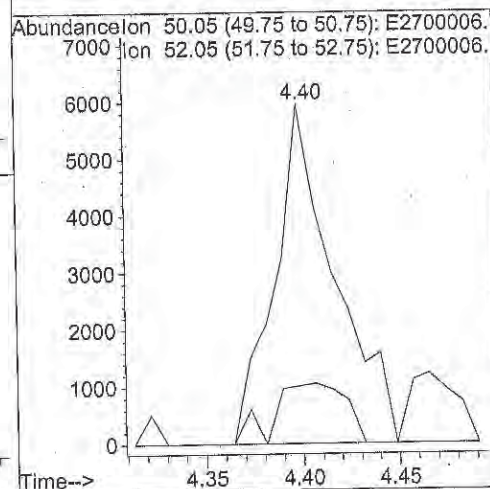
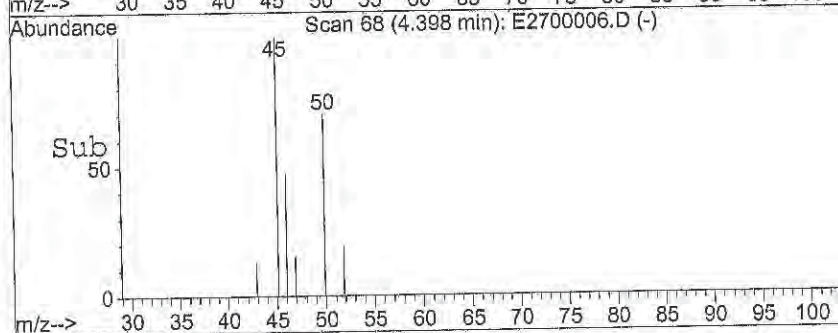
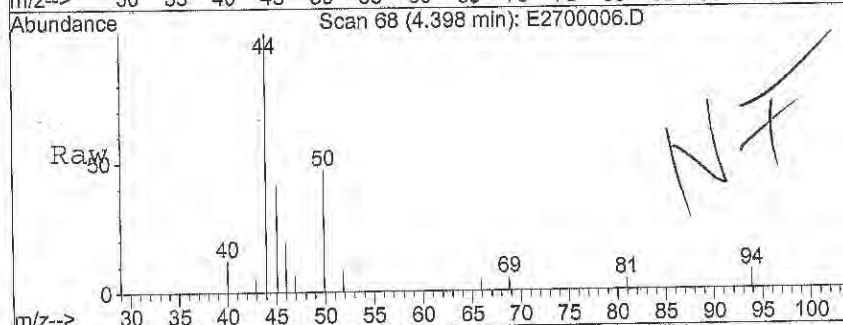
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 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration





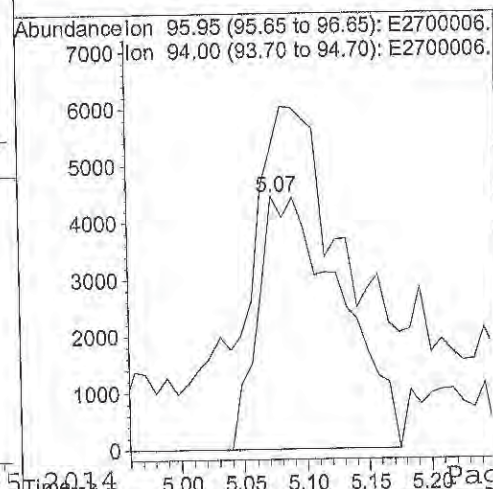
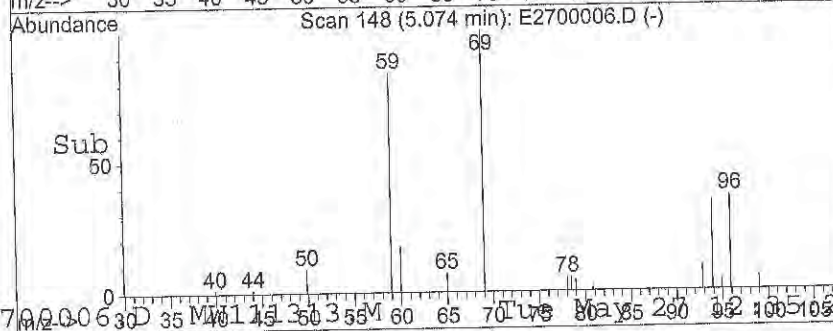
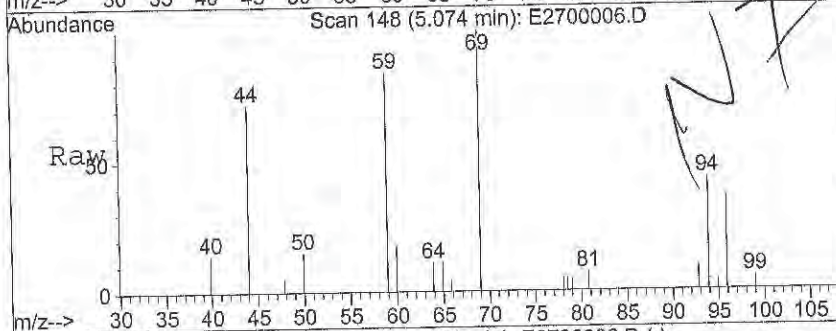
#4
Chloromethane
Concen: 3.28 ug/L
RT: 4.40 min Scan# 68
Delta R.T. 0.01 min
Lab File: E2700006.D
Acq: 27 May 2014 12:03 pm

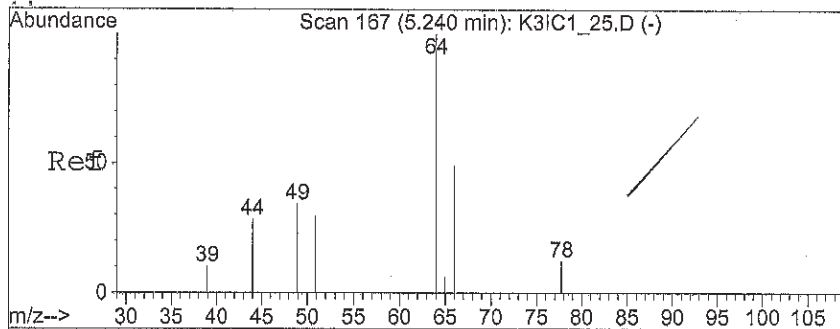
Tgt Ion: 50 Resp: 12801
Ion Ratio Lower Upper
50 100
52 21.0 26.9 40.3#



#6
Bromomethane
Concen: 9.24 ug/L
RT: 5.07 min Scan# 148
Delta R.T. -0.02 min
Lab File: E2700006.D
Acq: 27 May 2014 12:03 pm

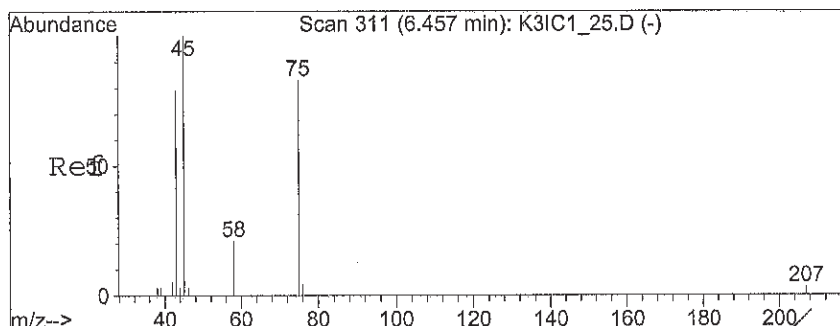
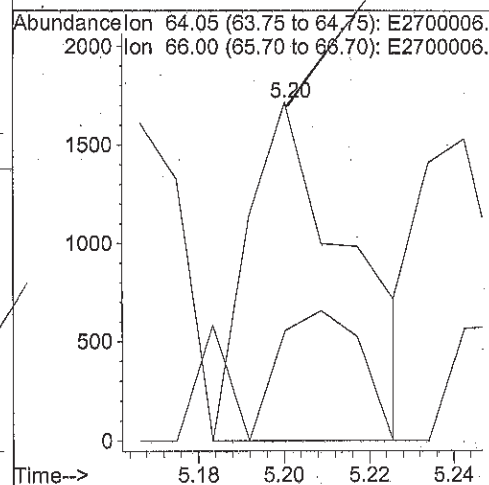
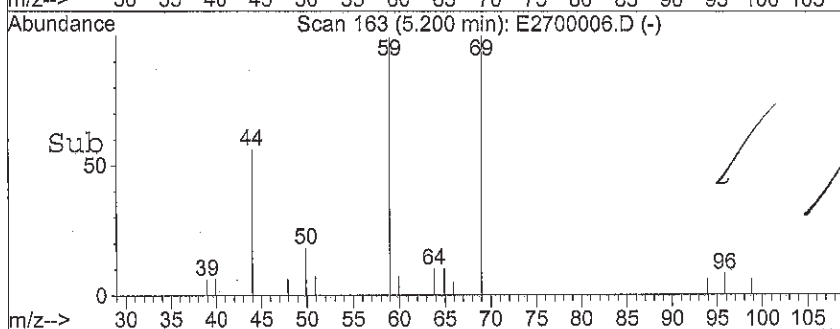
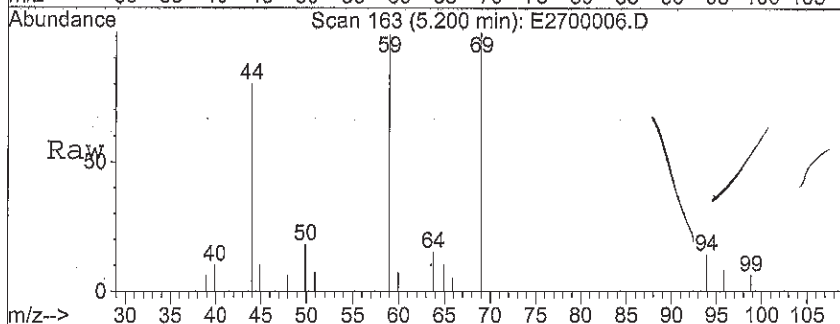
Tgt Ion: 96 Resp: 20579
Ion Ratio Lower Upper
96 100
94 148.8 101.0 151.4





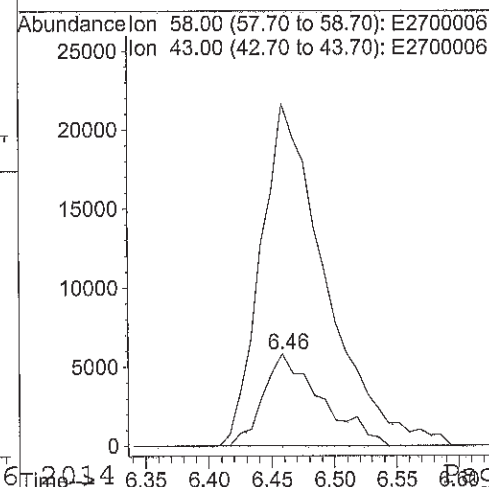
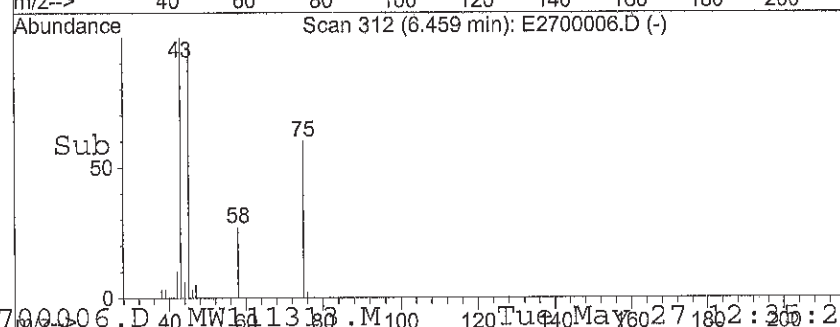
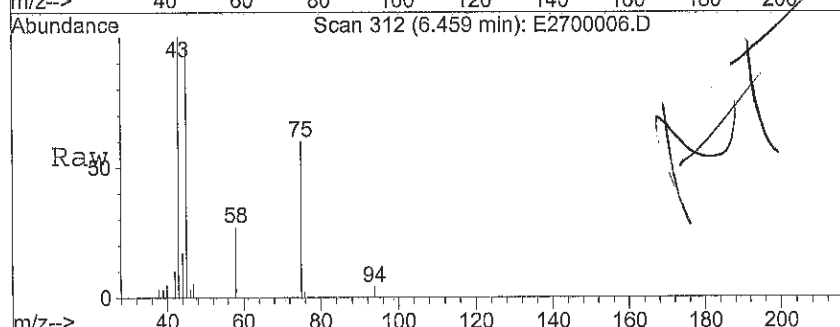
#7
 Chloroethane
 Concen: 2.68 ug/L
 RT: 5.20 min Scan# 163
 Delta R.T. -0.04 min
 Lab File: E2700006.D
 Acq: 27 May 2014 12:03 pm

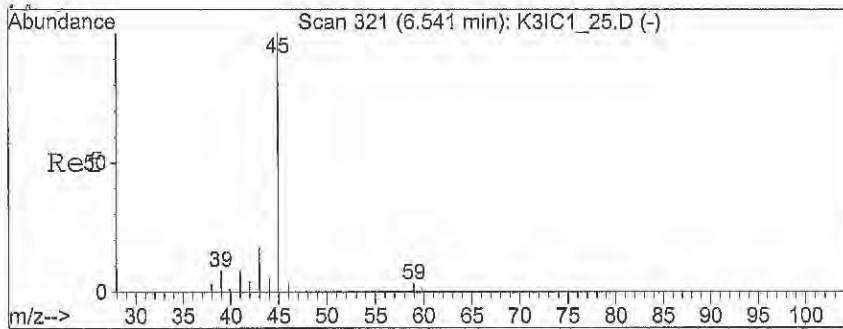
Tgt Ion: 64 Resp: 2815
 Ion Ratio Lower Upper
 64 100
 66 41.6 35.4 53.0



#11
 Acetone
 Concen: 27.79 ug/L
 RT: 6.46 min Scan# 312
 Delta R.T. 0.00 min
 Lab File: E2700006.D
 Acq: 27 May 2014 12:03 pm

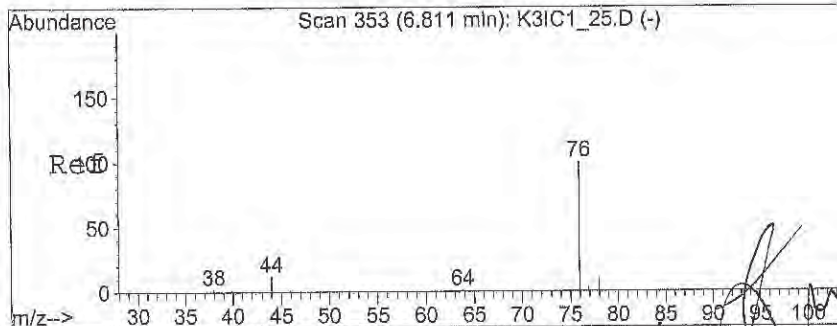
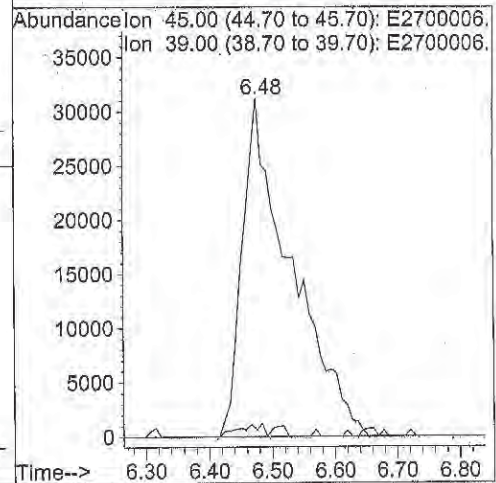
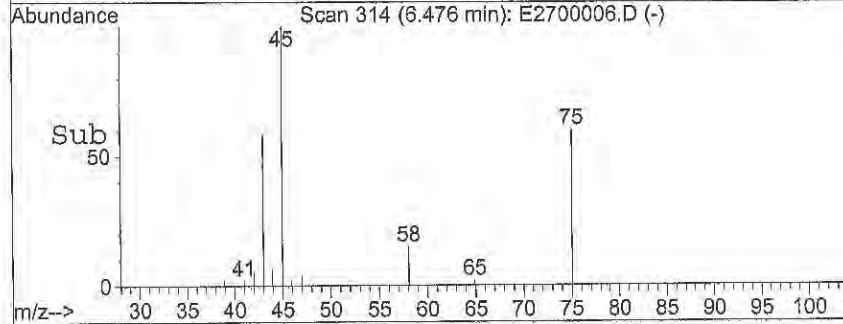
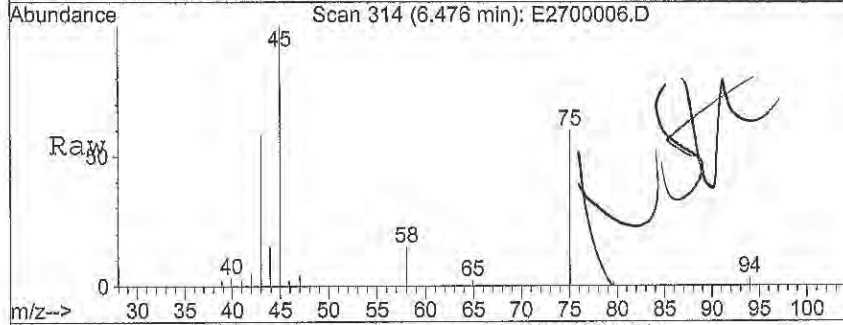
Tgt Ion: 58 Resp: 18648
 Ion Ratio Lower Upper
 58 100
 43 419.1 360.9 541.3





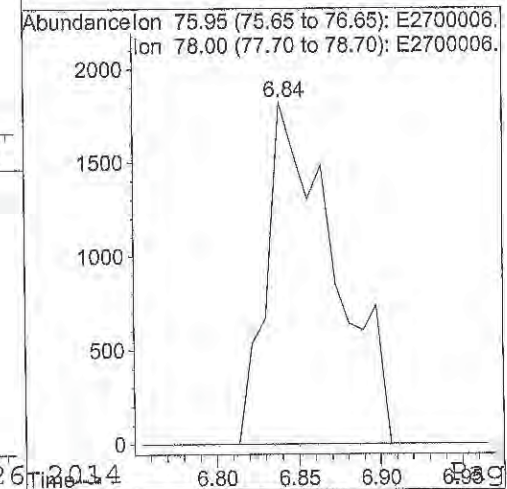
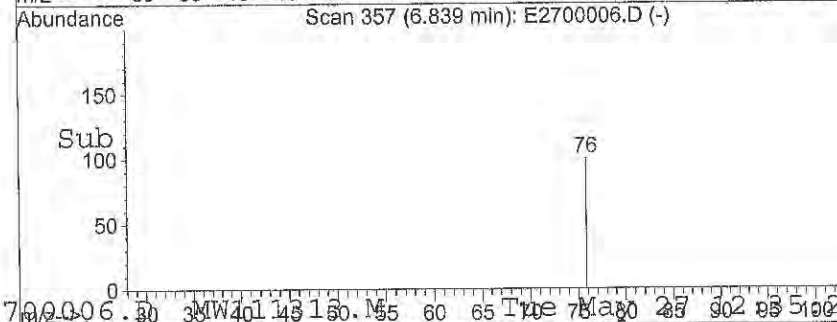
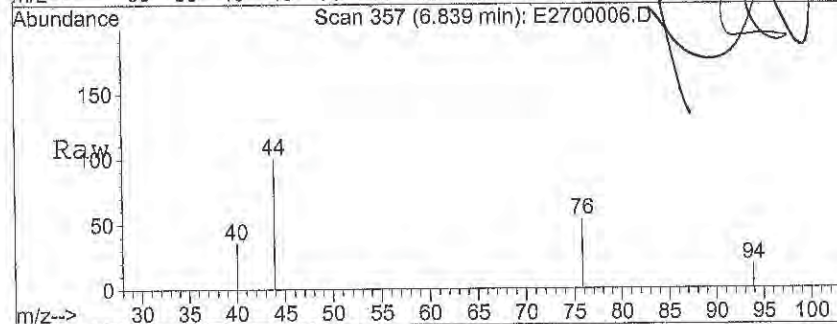
#12
 (IPA) Leak Check Compound
 Concen: 819.81 ug/L
 RT: 6.48 min Scan# 314
 Delta R.T. -0.07 min
 Lab File: E2700006.D
 Acq: 27 May 2014 12:03 pm

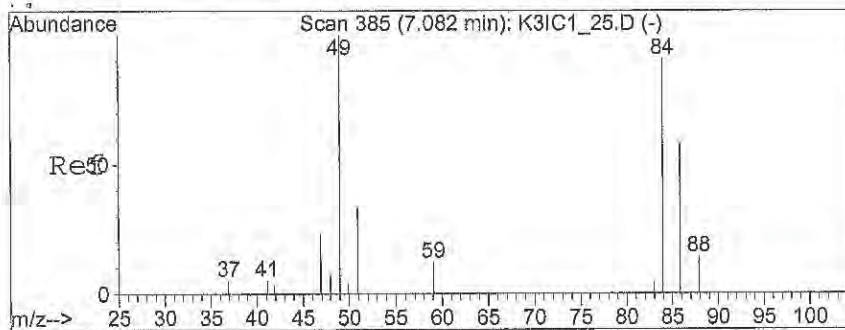
Tgt Ion: 45 Resp: 167240
 Ion Ratio Lower Upper
 45 100
 39 1.9 4.9 7.3#



#13
 Carbon disulfide
 Concen: 0.37 ug/L
 RT: 6.84 min Scan# 357
 Delta R.T. 0.03 min
 Lab File: E2700006.D
 Acq: 27 May 2014 12:03 pm

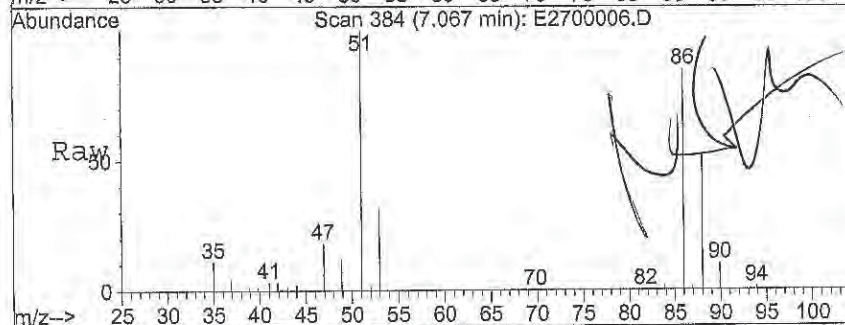
Tgt Ion: 76 Resp: 5168
 Ion Ratio Lower Upper
 76 100
 78 0.0 7.0 10.4#





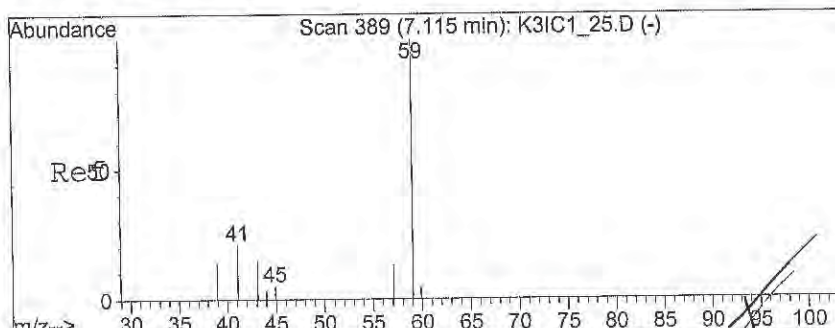
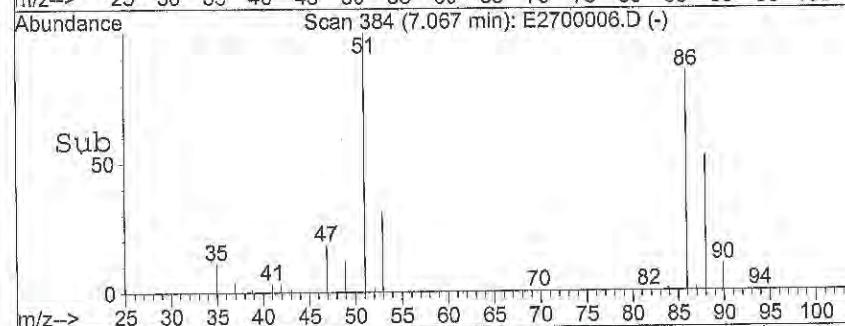
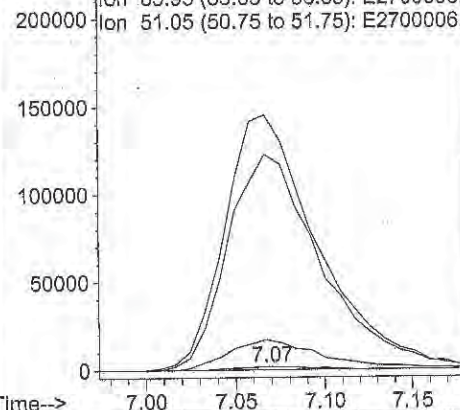
#14
Methylene Chloride
Concen: 1.10 ug/L
RT: 7.07 min Scan# 384
Delta R.T. -0.01 min
Lab File: E2700006.D
Acq: 27 May 2014 12:03 pm

Tgt Ion: 84 Resp: 5115
Ion Ratio Lower Upper
84 100
49 1200.1 89.8 134.6#
86 8797.8 51.1 76.7#
51 10378.4 28.5 42.7#



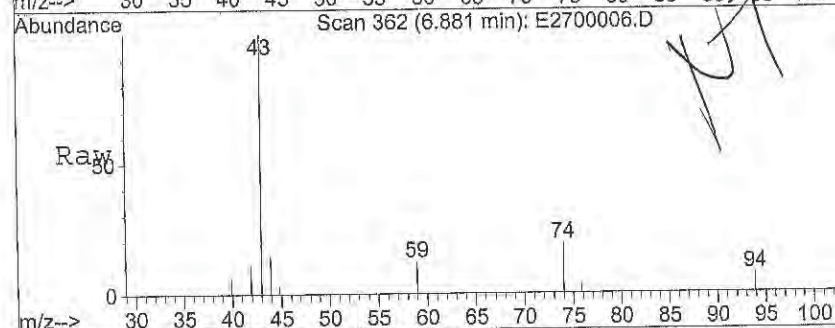
Abundance

Ion 83.95 (83.65 to 84.65): E2700006.
Ion 48.95 (48.65 to 49.65): E2700006.
Ion 85.95 (85.65 to 86.65): E2700006.
Ion 51.05 (50.75 to 51.75): E2700006.



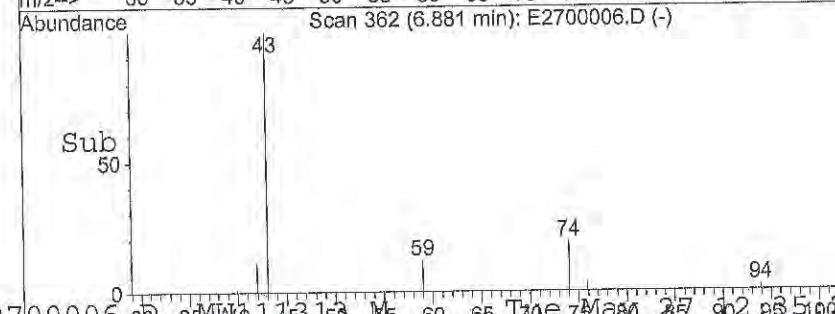
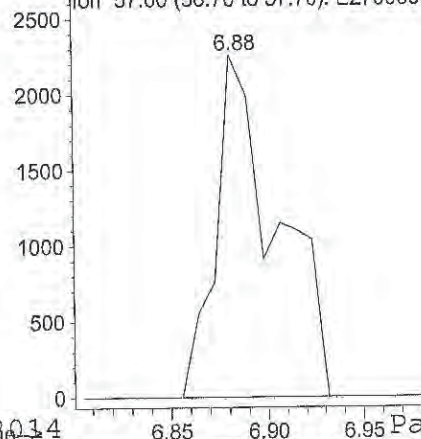
#15
(TBA) tert-Butanol
Concen: 17.05 ug/L
RT: 6.88 min Scan# 362
Delta R.T. -0.23 min
Lab File: E2700006.D
Acq: 27 May 2014 12:03 pm

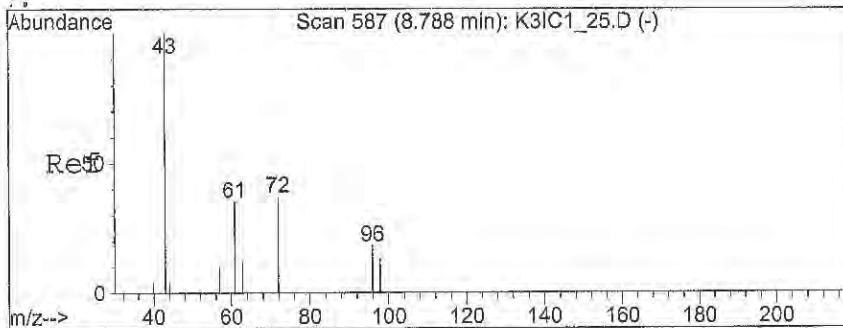
Tgt Ion: 59 Resp: 4938
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#



Abundance

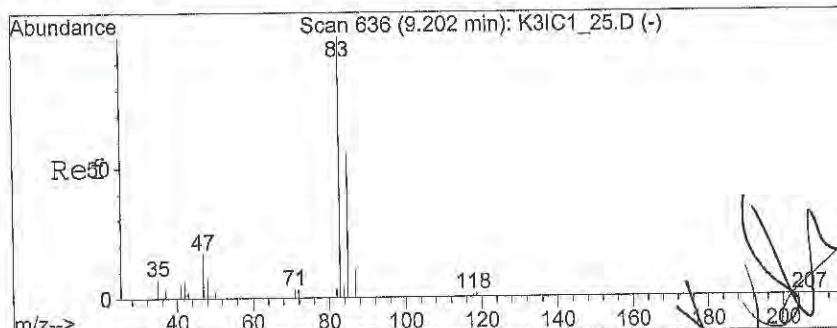
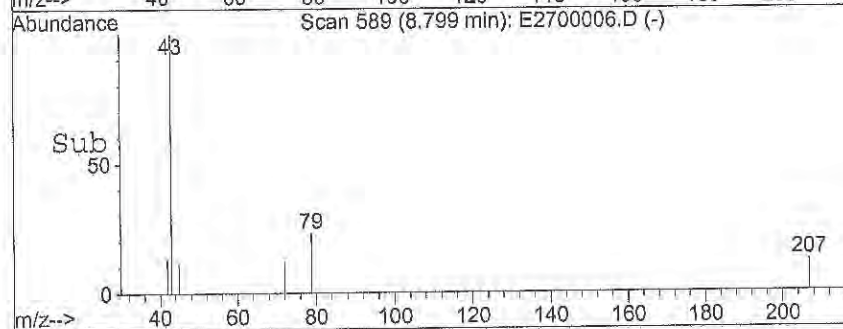
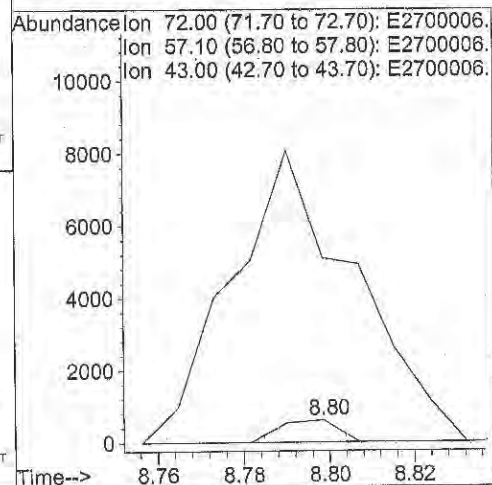
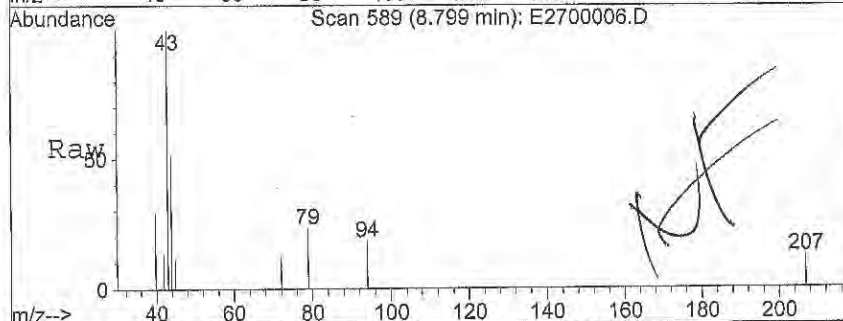
Ion 59.00 (58.70 to 59.70): E2700006.
Ion 57.00 (56.70 to 57.70): E2700006.





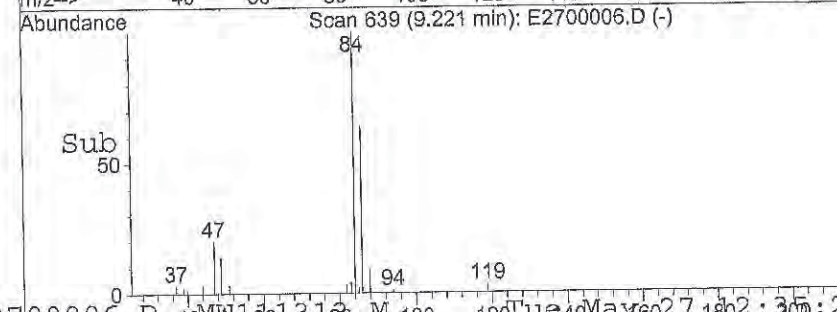
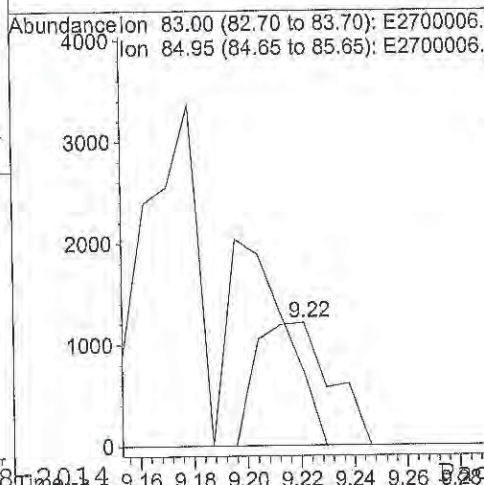
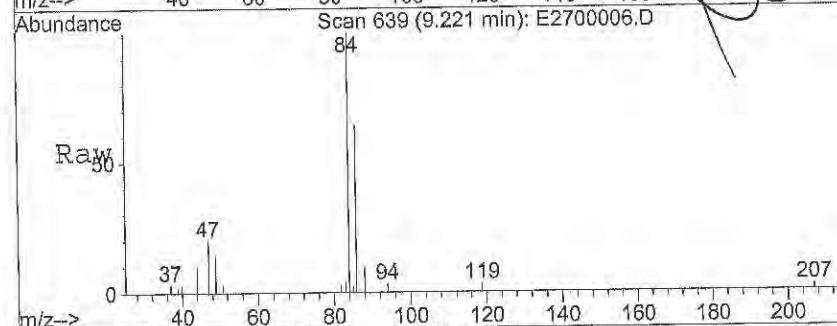
#21
 (MEK) 2-Butanone
 Concen: 1.21 ug/L
 RT: 8.80 min Scan# 589
 Delta R.T. 0.01 min
 Lab File: E2700006.D
 Acq: 27 May 2014 12:03 pm

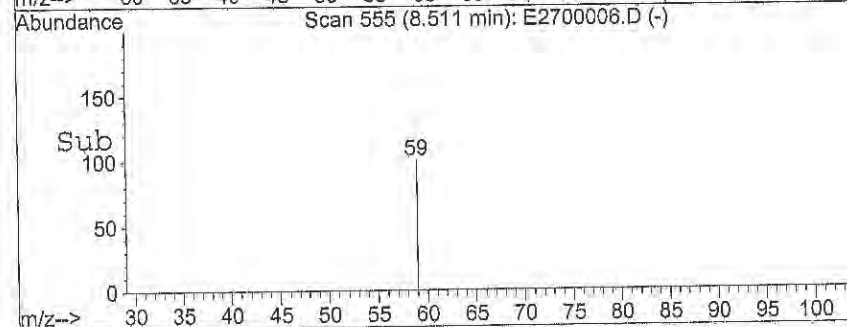
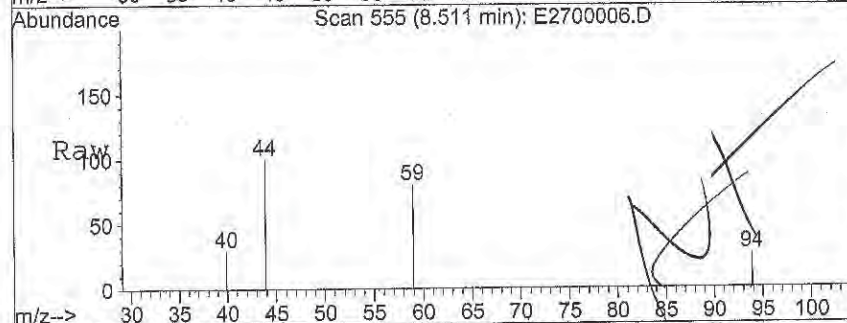
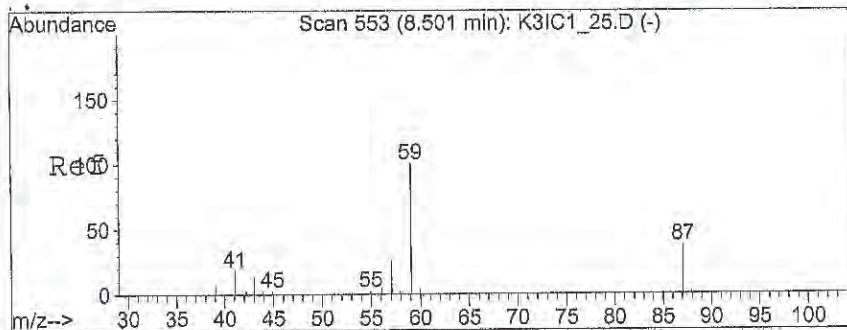
Tgt Ion: 72 Resp: 578
 Ion Ratio Lower Upper
 72 100
 57 0.0 17.5 26.3#
 43 2841.0 314.2 471.2#



#24
 Chloroform
 Concen: 0.26 ug/L
 RT: 9.22 min Scan# 639
 Delta R.T. 0.02 min
 Lab File: E2700006.D
 Acq: 27 May 2014 12:03 pm

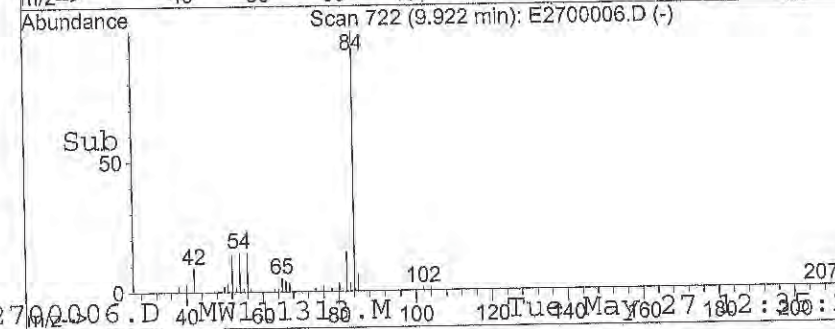
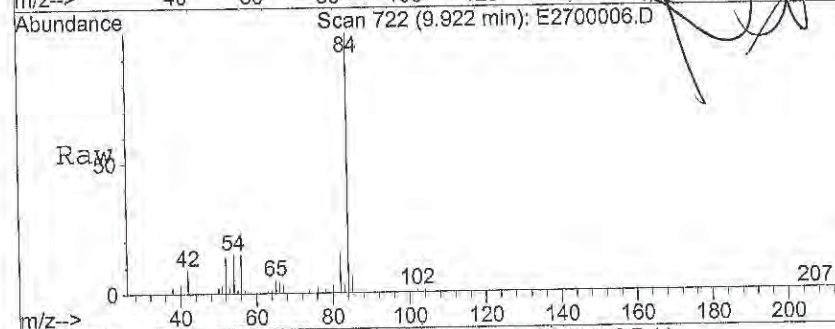
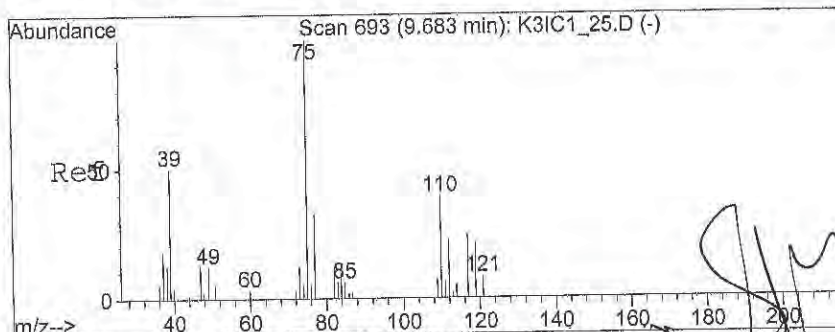
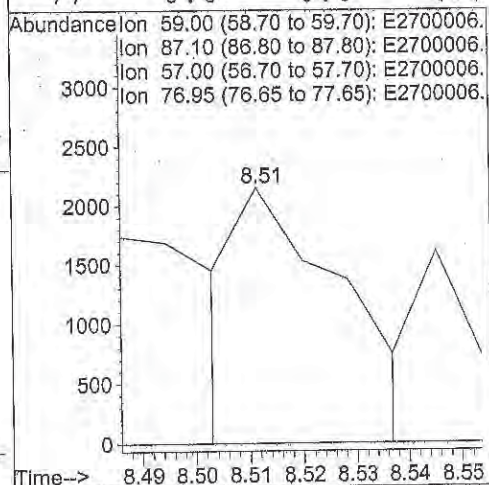
Tgt Ion: 83 Resp: 2352
 Ion Ratio Lower Upper
 83 100
 85 0.0 51.8 77.6#





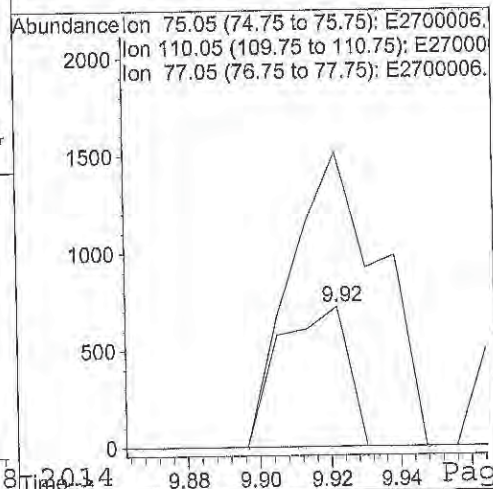
#25
 (ETBE) 2-ethoxy 2-methyl propan
 Concen: 0.24 ug/L
 RT: 8.51 min Scan# 555
 Delta R.T. 0.01 min
 Lab File: E2700006.D
 Acq: 27 May 2014 12:03 pm

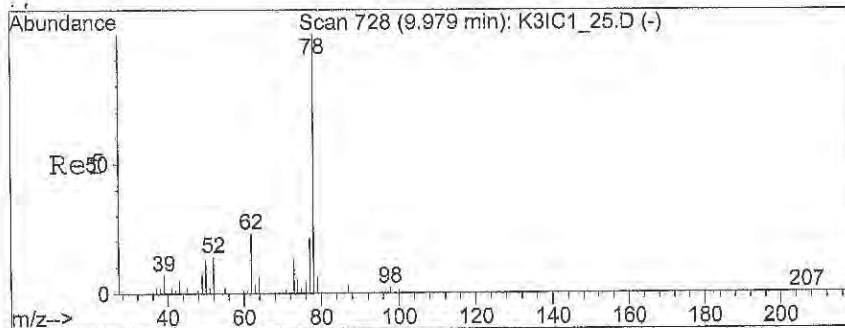
Tgt Ion:	59	Resp:	2935
Ion	Ratio	Lower	Upper
59	100		
87	0.0	27.8	41.8#
57	0.0	19.8	29.6#
77	0.0	0.0	0.0



#29
 1,1-Dichloropropene
 Concen: 0.15 ug/L
 RT: 9.92 min Scan# 722
 Delta R.T. 0.24 min
 Lab File: E2700006.D
 Acq: 27 May 2014 12:03 pm

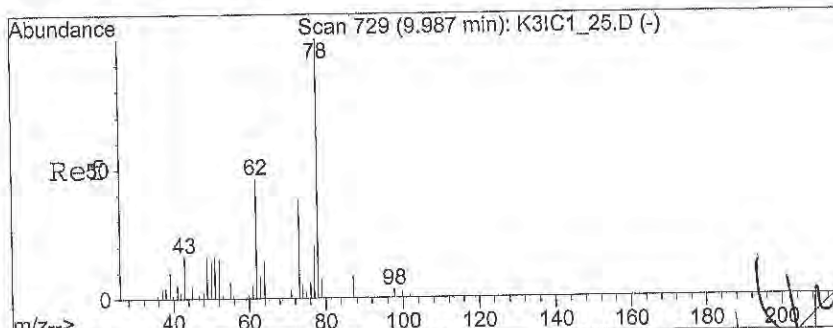
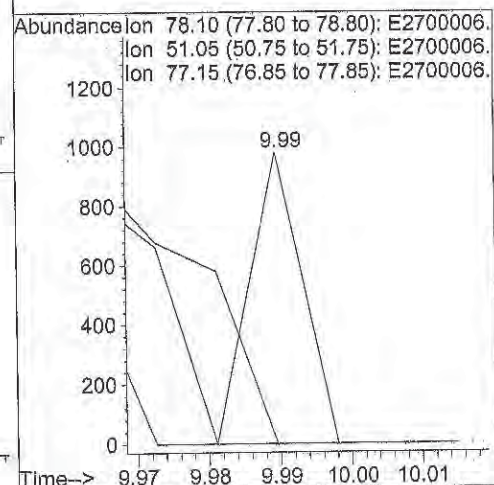
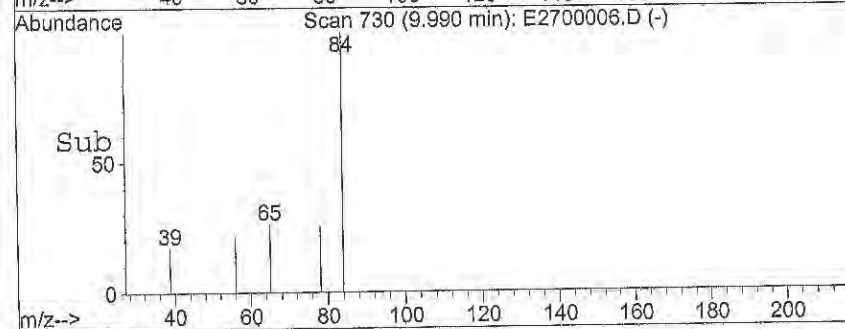
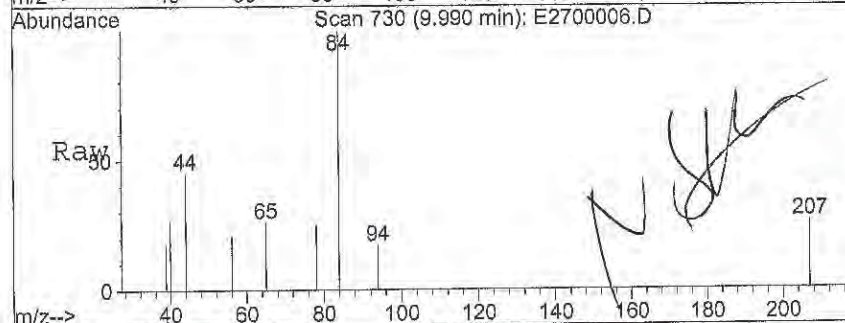
Tgt Ion:	75	Resp:	965
Ion	Ratio	Lower	Upper
75	100		
110	0.0	29.0	43.6#
77	275.6	25.0	37.4#





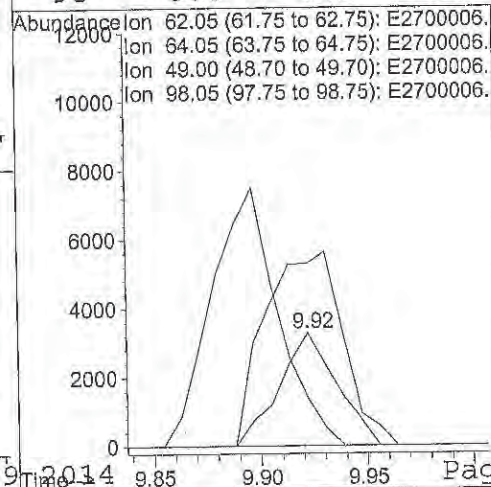
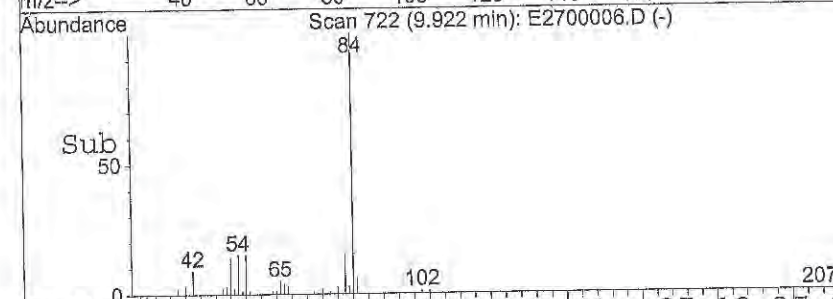
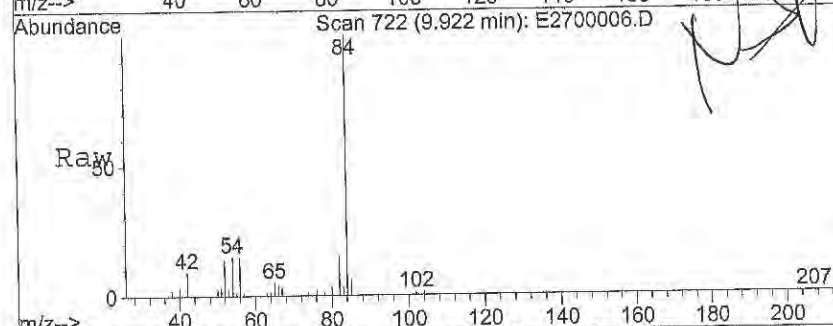
#31
Benzene
Concen: 0.03 ug/L
RT: 9.99 min Scan# 730
Delta R.T. 0.01 min
Lab File: E2700006.D
Acq: 27 May 2014 12:03 pm

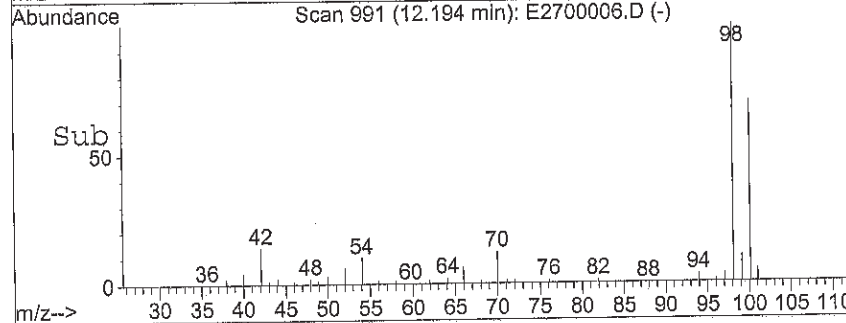
Tgt Ion: 78 Resp: 497
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 0.0 16.6 24.8#



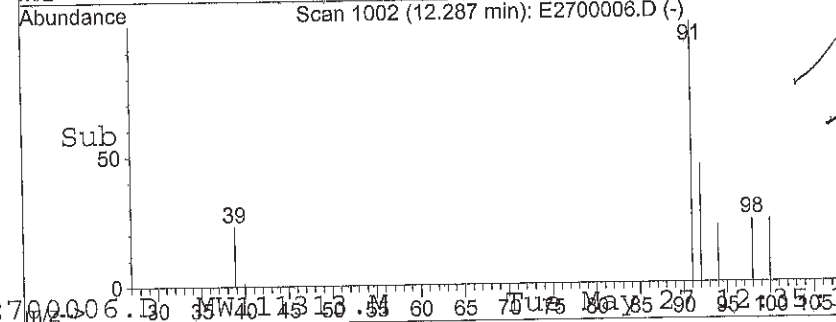
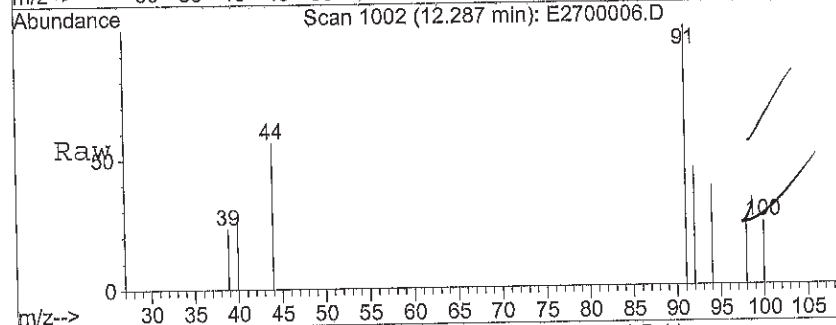
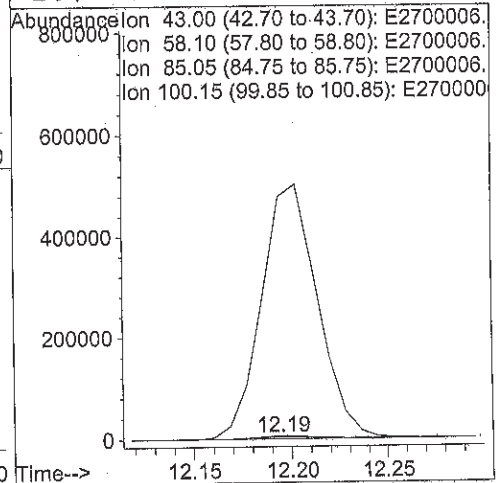
#32
1,2-Dichloroethane
Concen: 1.09 ug/L
RT: 9.92 min Scan# 722
Delta R.T. -0.07 min
Lab File: E2700006.D
Acq: 27 May 2014 12:03 pm

Tgt Ion: 62 Resp: 6166
Ion Ratio Lower Upper
62 100
64 231.0 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#

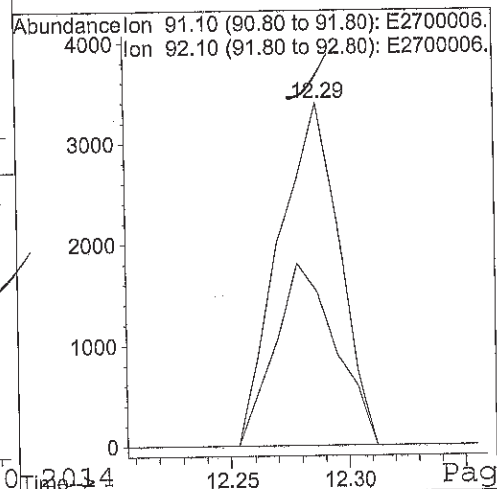


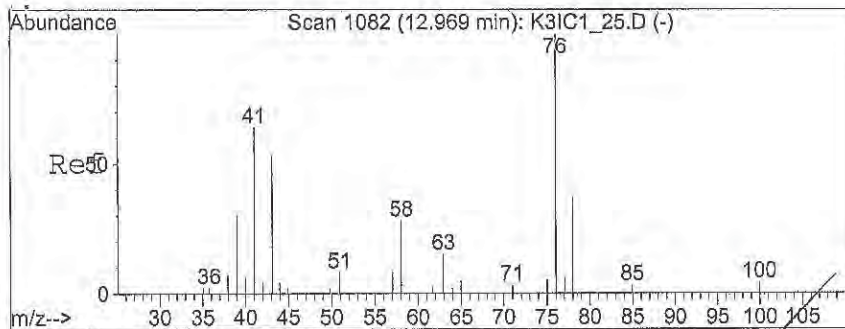


Tgt	Ion: 43	Resp:	8241
Ion	Ratio	Lower	Upper
43	100		
58	137.4	0.0	0.0#
85	0.0	0.0	0.0
100	12150.1	0.0	0.0#



Tgt	Ion: 91	Resp:	6030
Ion	Ratio	Lower	Upper
91	100		
92	53.6	47.4	71.0





#46

2-Hexanone

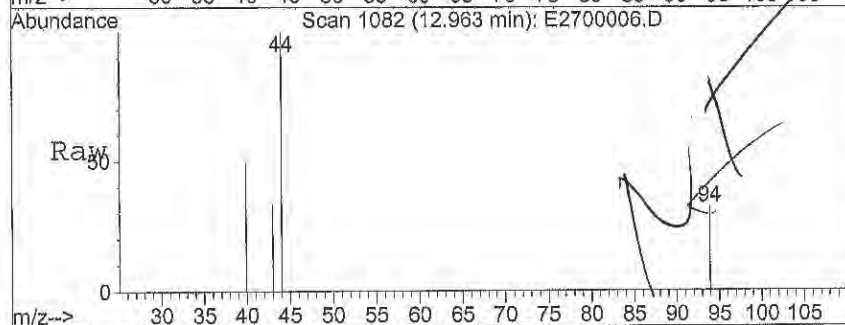
Concen: 0.41 ug/L

RT: 12.96 min Scan# 1082

Delta R.T. -0.01 min

Lab File: E2700006.D

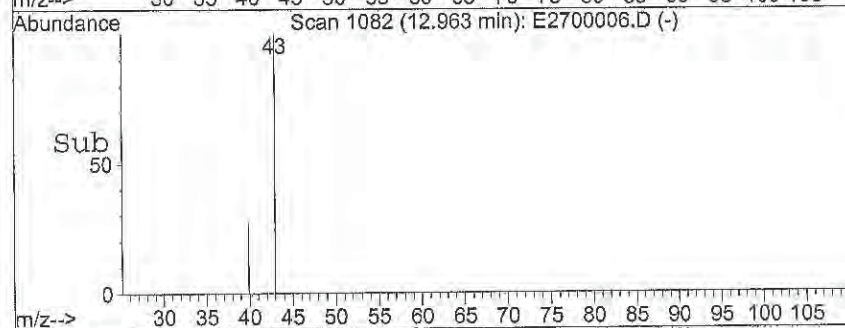
Acq: 27 May 2014 12:03 pm



Tgt Ion: 43 Resp: 1149

Ion Ratio Lower Upper

43	100		
58	0.0	40.9	61.3#
100	0.0	5.5	8.3#
85	0.0	4.3	6.5#



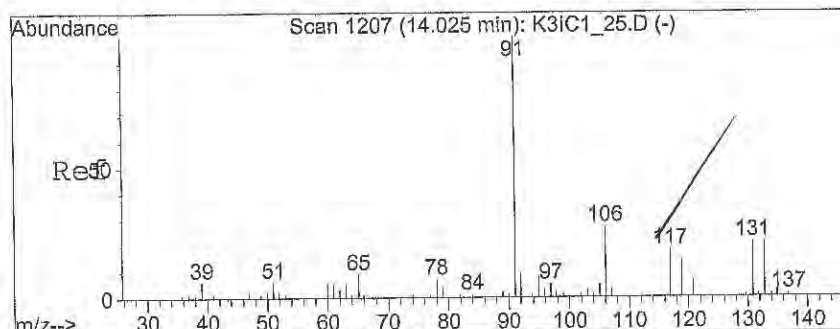
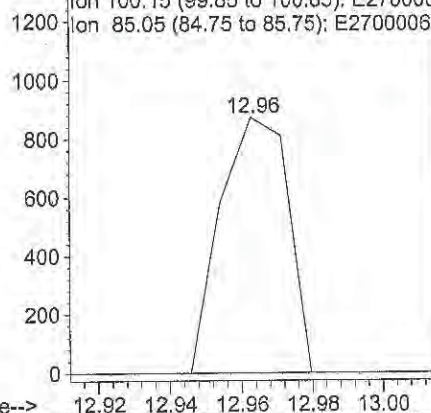
Abundance

Ion 43.00 (42.70 to 43.70): E2700006.

Ion 58.10 (57.80 to 58.80): E2700006.

Ion 100.15 (99.85 to 100.85): E2700006.

Ion 85.05 (84.75 to 85.75): E2700006.



#51

Ethylbenzene

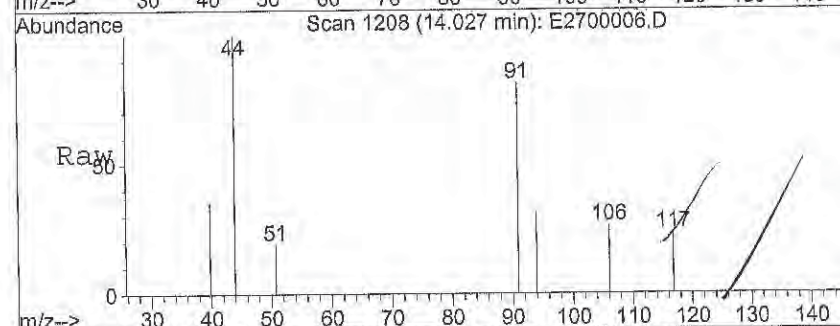
Concen: 0.20 ug/L

RT: 14.03 min Scan# 1208

Delta R.T. 0.00 min

Lab File: E2700006.D

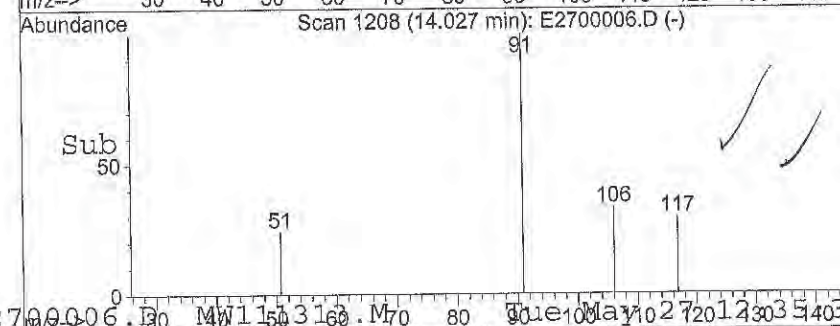
Acq: 27 May 2014 12:03 pm



Tgt Ion: 91 Resp: 3922

Ion Ratio Lower Upper

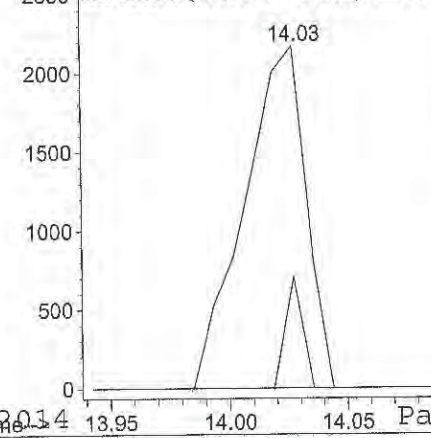
91	100		
106	9.1	23.5	35.3#

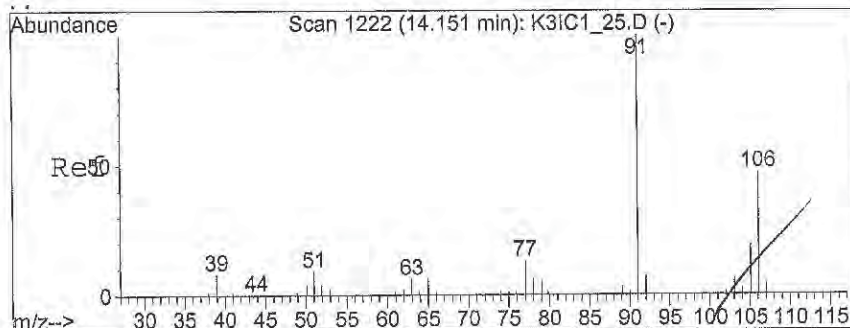


Abundance

Ion 91.10 (90.80 to 91.80): E2700006.

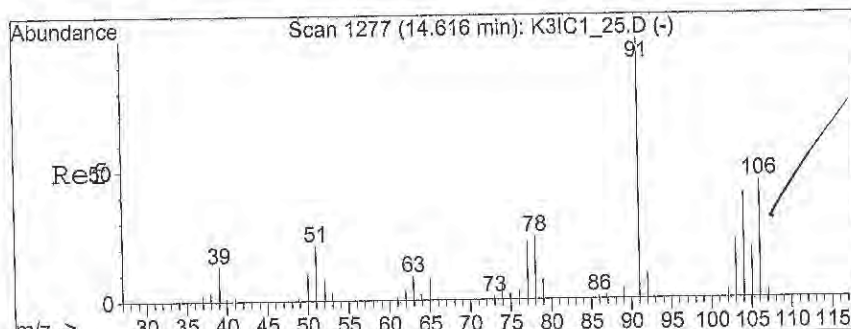
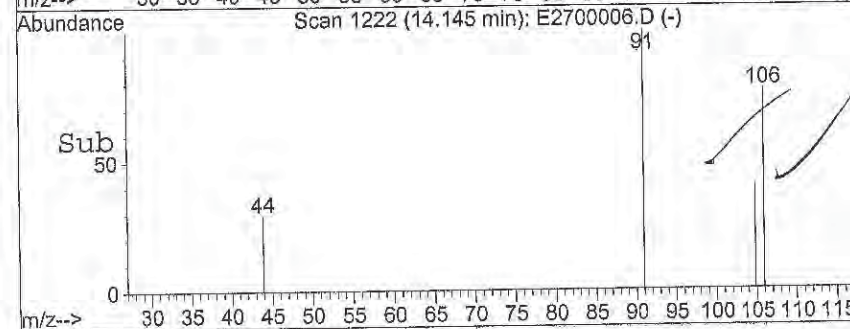
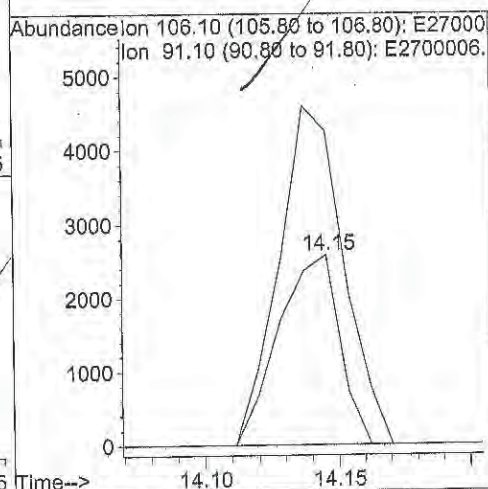
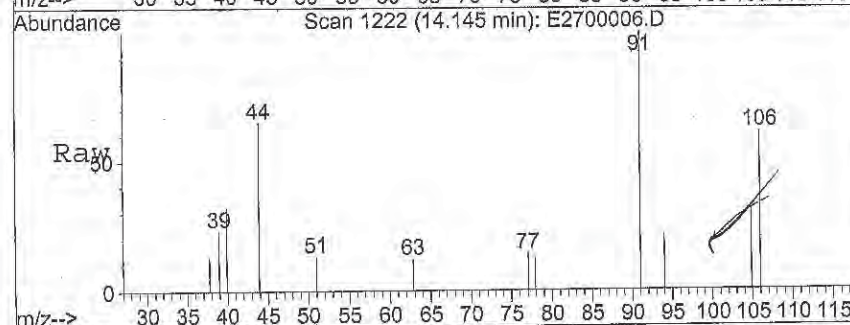
Ion 106.20 (105.90 to 106.90): E2700006.





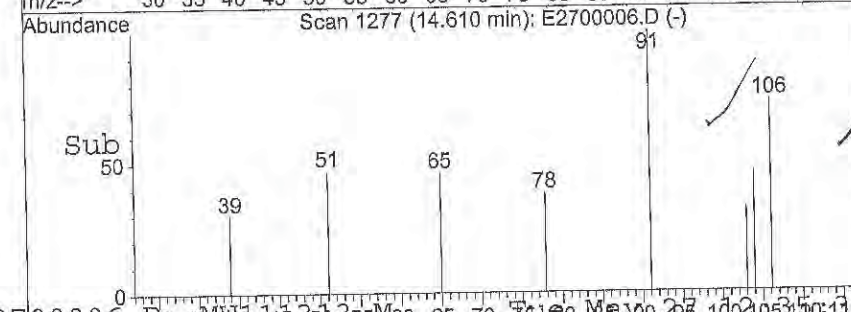
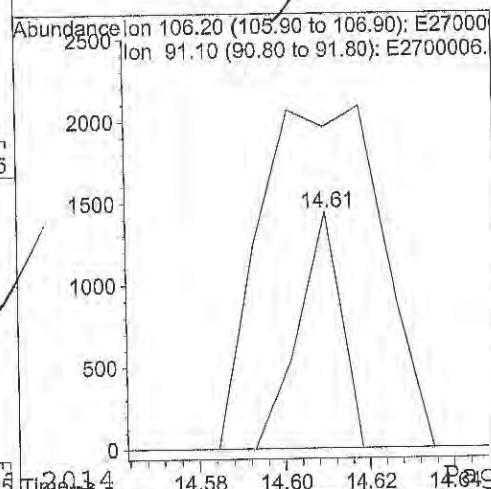
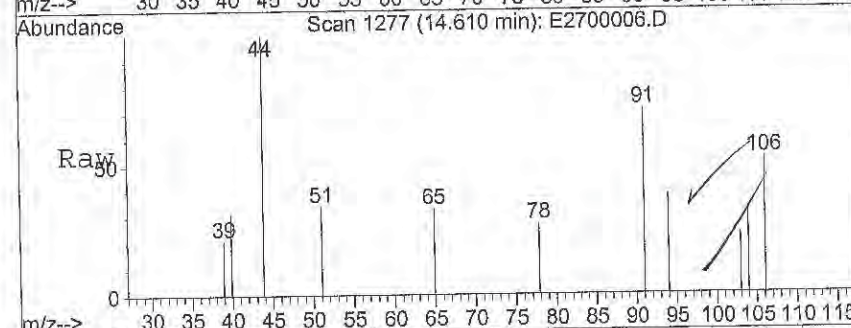
#52
m,p-Xylenes
Concen: 0.58 ug/L
RT: 14.15 min Scan# 1222
Delta R.T. -0.01 min
Lab File: E2700006.D
Acq: 27 May 2014 12:03 pm

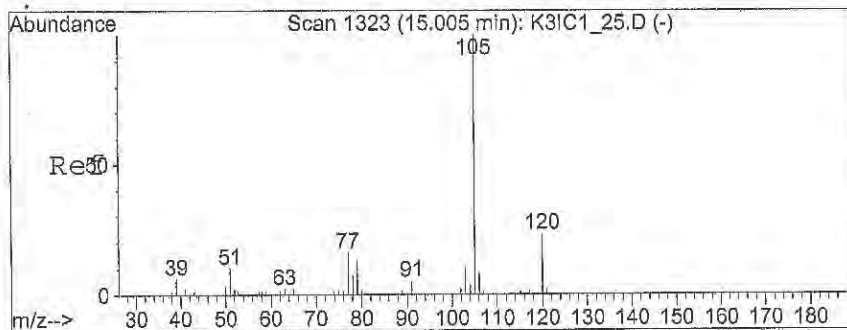
Tgt Ion: 106 Resp: 4083
Ion Ratio Lower Upper
106 100
91 189.4 177.1 265.7



#53
o-Xylene
Concen: 0.14 ug/L
RT: 14.61 min Scan# 1277
Delta R.T. -0.01 min
Lab File: E2700006.D
Acq: 27 May 2014 12:03 pm

Tgt Ion: 106 Resp: 1001
Ion Ratio Lower Upper
106 100
91 417.8 179.0 268.6#





#56

Isopropylbenzene

Concen: 0.07 ug/L

RT: 15.21 min Scan# 1348

Delta R.T. 0.21 min

Lab File: E2700006.D

Acq: 27 May 2014 12:03 pm

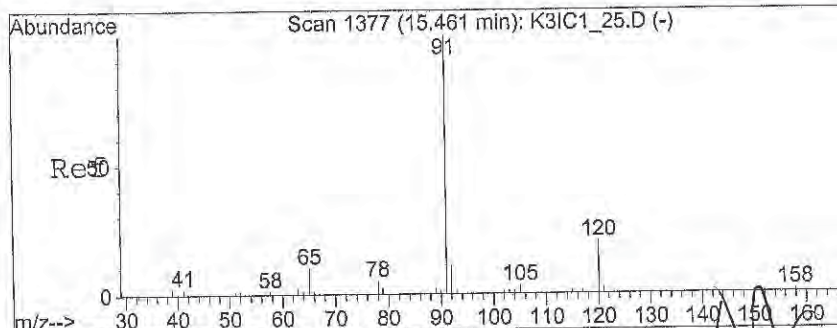
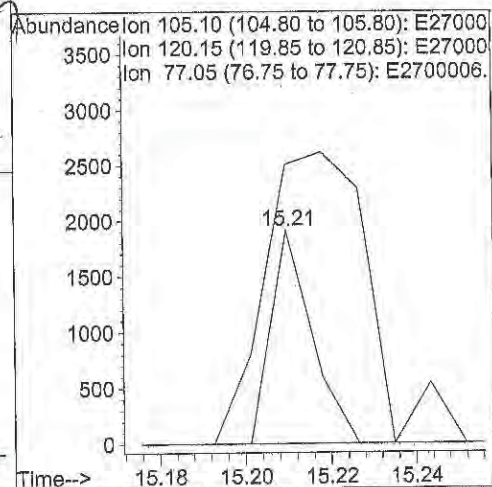
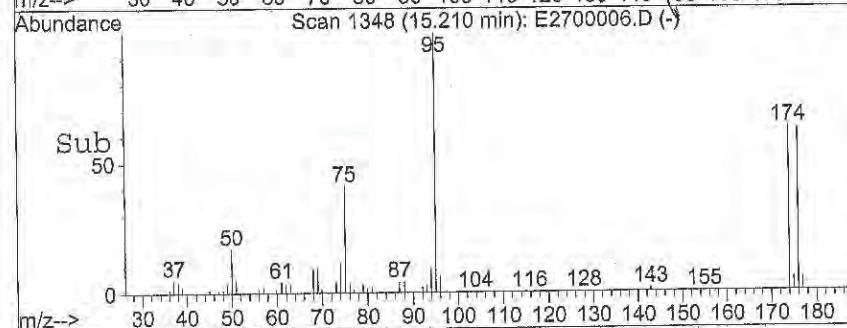
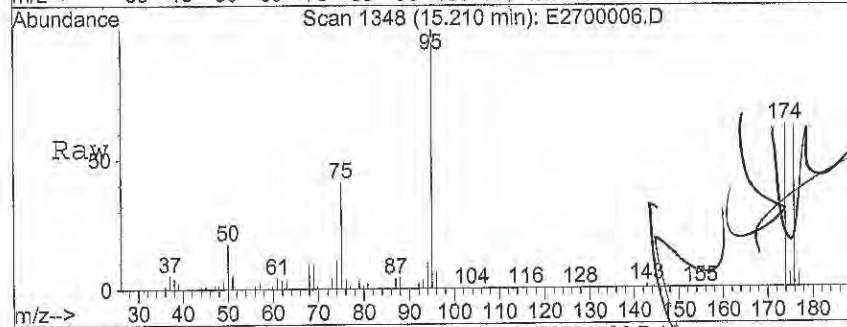
Tgt Ion: 105 Resp: 1266

Ion Ratio Lower Upper

105 100

120 0.0 19.3 28.9#

77 349.6 13.1 19.7#



#62

n-Propylbenzene

Concen: 0.04 ug/L

RT: 15.45 min Scan# 1377

Delta R.T. -0.01 min

Lab File: E2700006.D

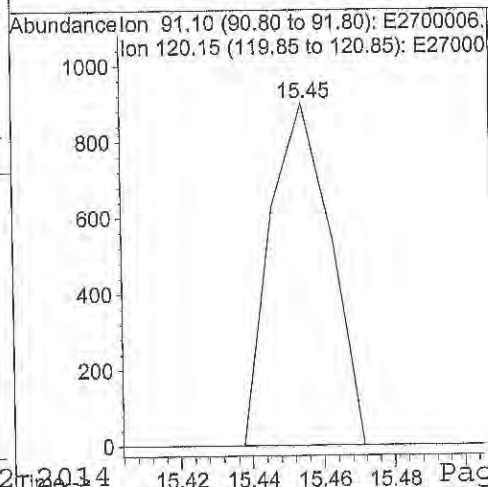
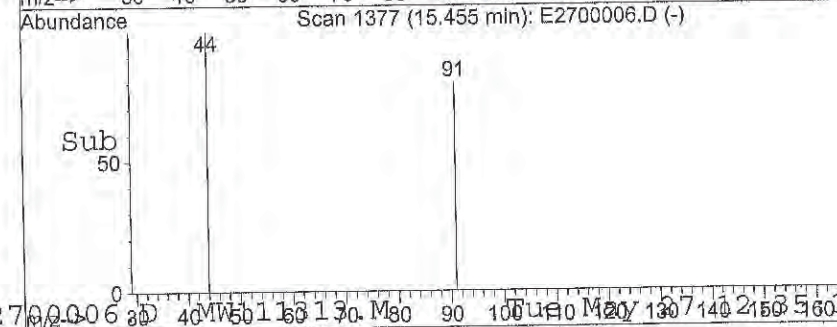
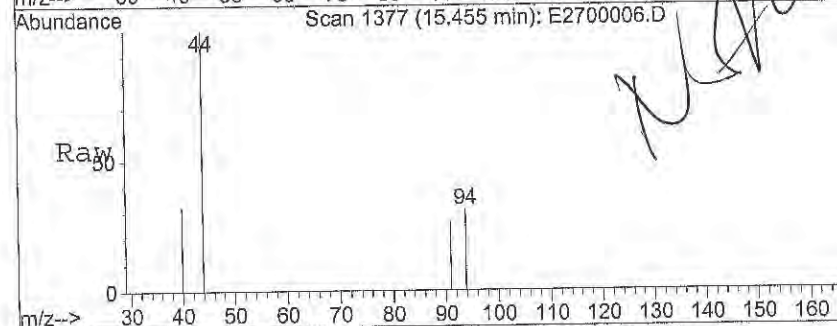
Acq: 27 May 2014 12:03 pm

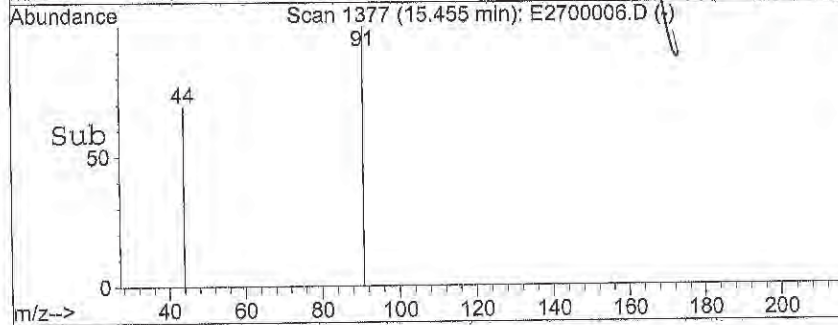
Tgt Ion: 91 Resp: 1050

Ion Ratio Lower Upper

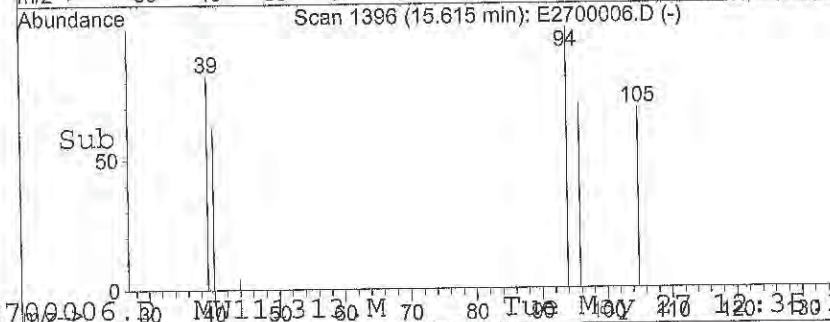
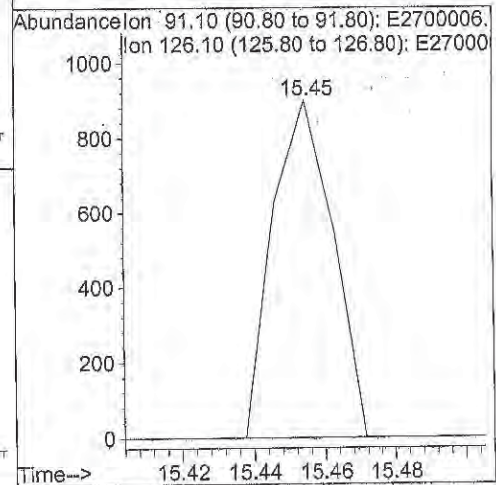
91 100

120 0.0 16.1 24.1#

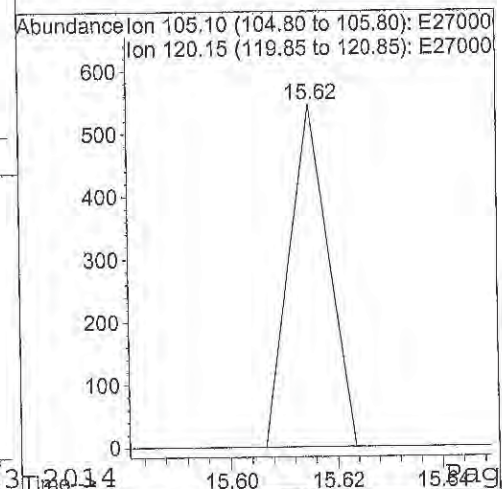


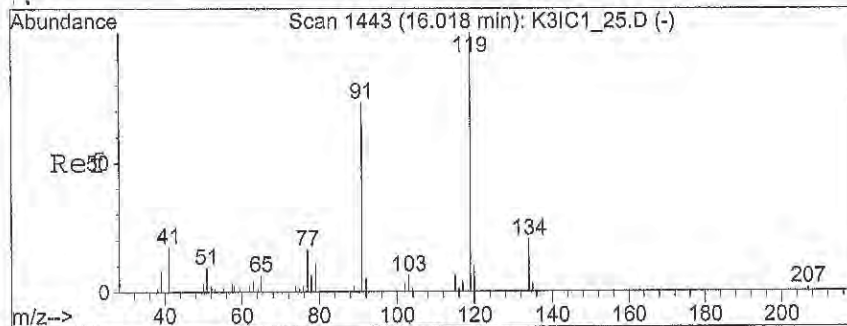


Tgt	Ion: 91	Resp:	1050
Ion	Ratio	Lower	Upper
91	100		
126	0.0	24.0	36.0#



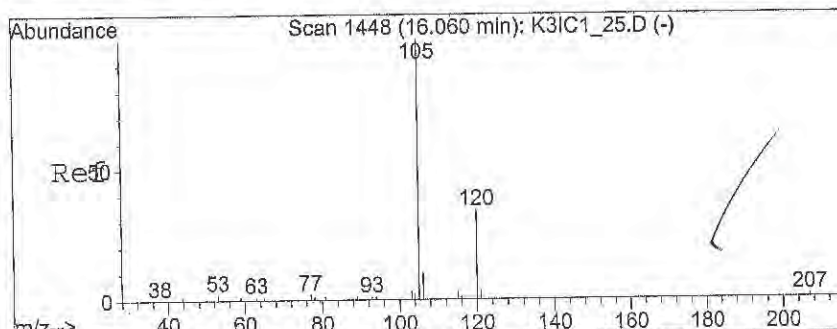
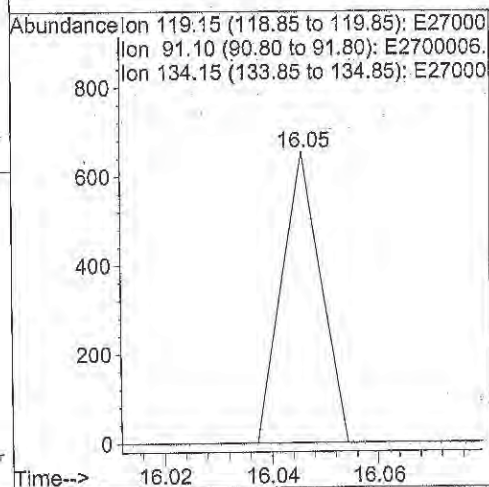
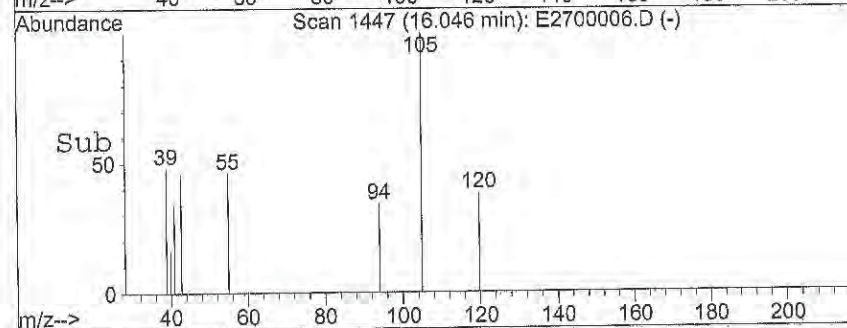
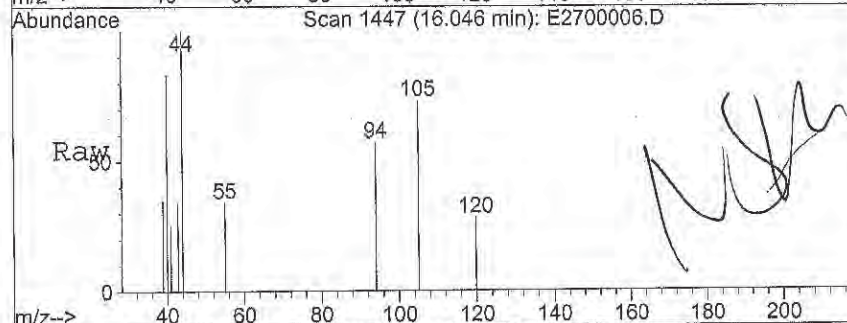
Tgt Ion:105	Resp:	277
Ion Ratio	Lower	Upper
105	100	
120	0.0	36.4 54.6#





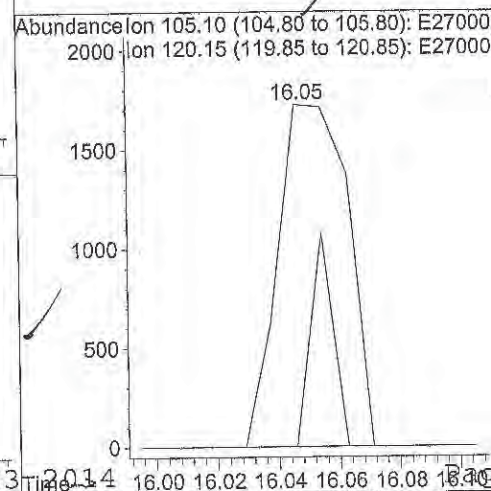
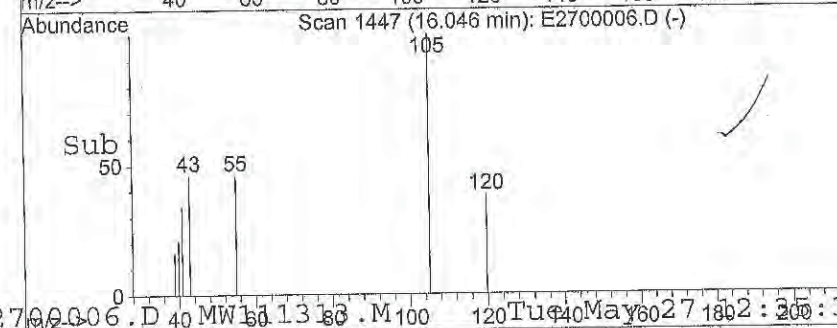
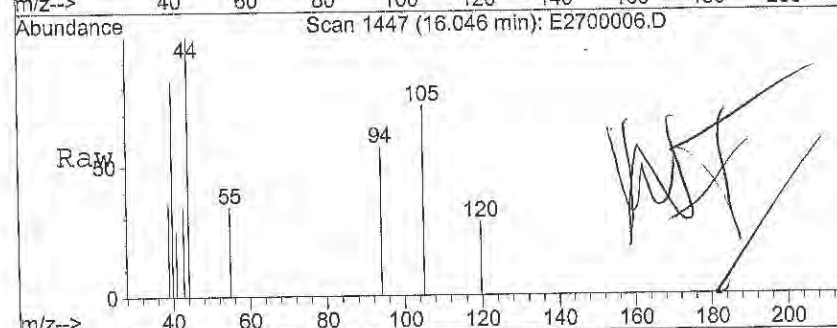
#66
 tert-Butylbenzene
 Concen: 0.02 ug/L
 RT: 16.05 min Scan# 1447
 Delta R.T. 0.03 min
 Lab File: E2700006.D
 Acq: 27 May 2014 12:03 pm

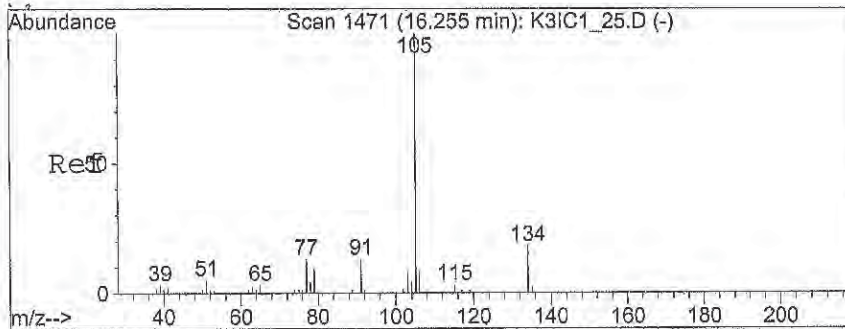
Tgt Ion: 119 Resp: 331
 Ion Ratio Lower Upper
 119 100
 91 0.0 56.3 84.5#
 134 0.0 16.1 24.1#



#67
 1,2,4-Trimethylbenzene
 Concen: 0.15 ug/L
 RT: 16.05 min Scan# 1447
 Delta R.T. -0.01 min
 Lab File: E2700006.D
 Acq: 27 May 2014 12:03 pm

Tgt Ion: 105 Resp: 2752
 Ion Ratio Lower Upper
 105 100
 120 19.8 33.8 50.8#





#68

sec-Butylbenzene

Concen: 0.01 ug/L

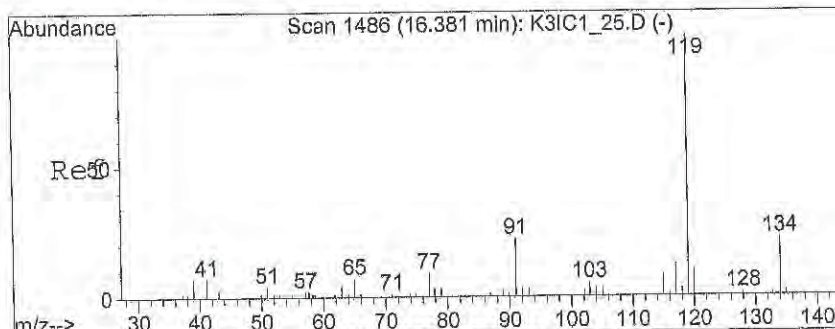
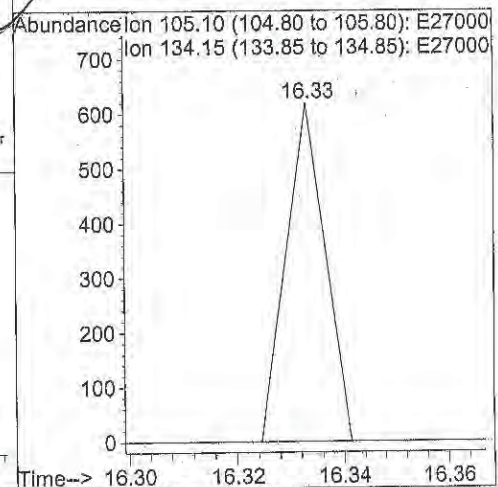
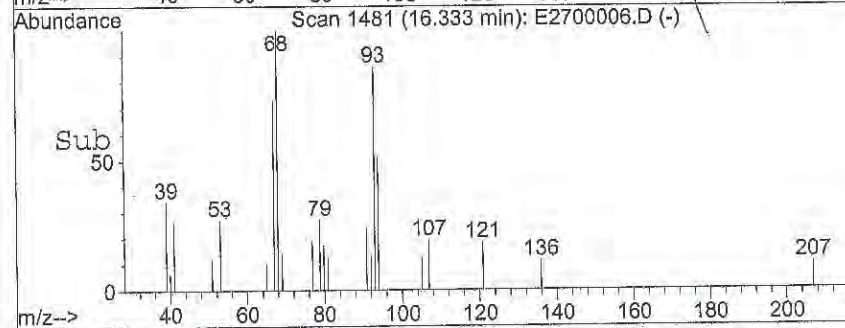
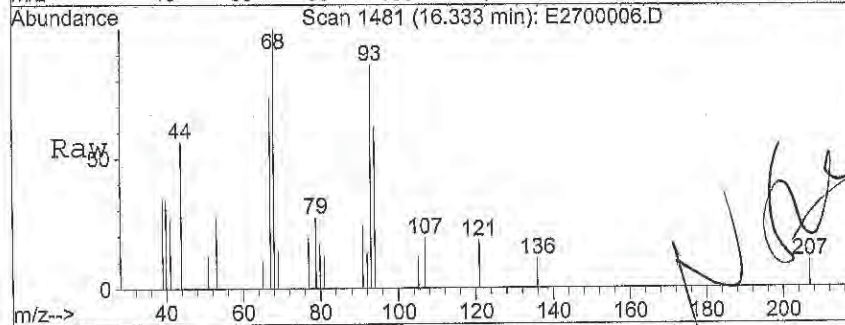
RT: 16.33 min Scan# 1481

Delta R.T. 0.08 min

Lab File: E2700006.D

Acq: 27 May 2014 12:03 pm

Tgt Ion:105 Resp: 314
 Ion Ratio Lower Upper
 105 100
 134 0.0 13.0 19.6#



#69

p-Isopropyltoluene

Concen: 0.02 ug/L

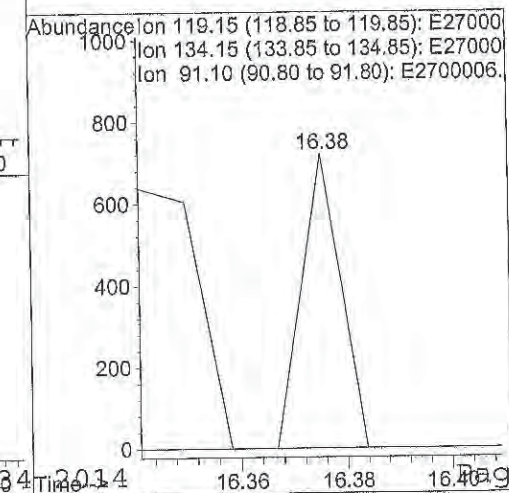
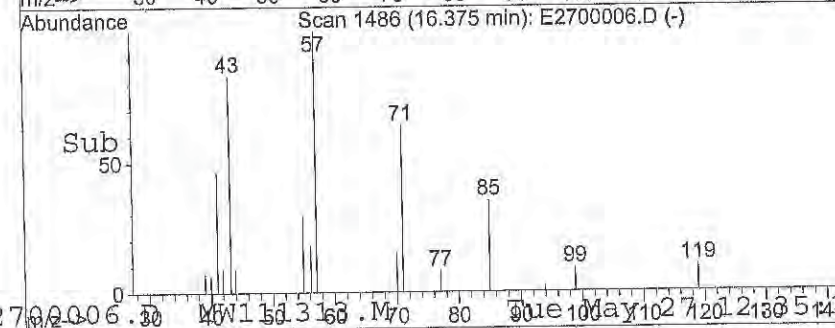
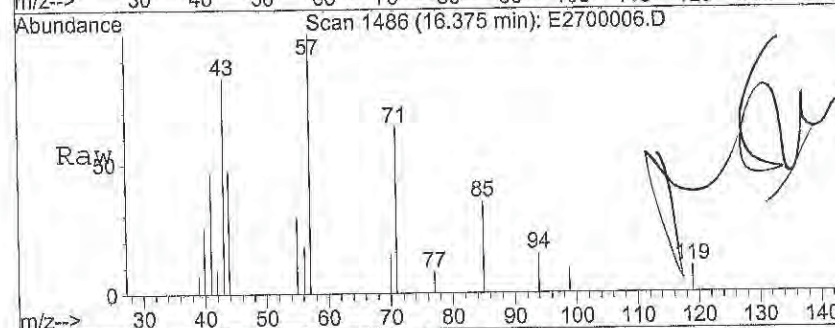
RT: 16.38 min Scan# 1486

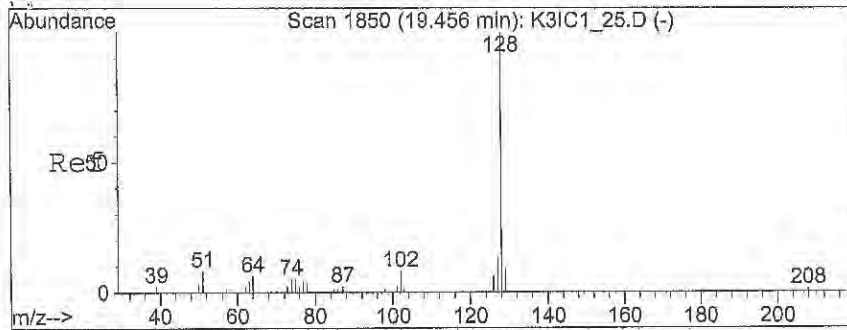
Delta R.T. -0.01 min

Lab File: E2700006.D

Acq: 27 May 2014 12:03 pm

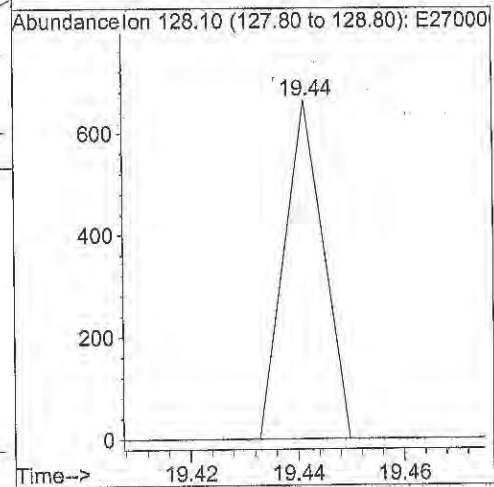
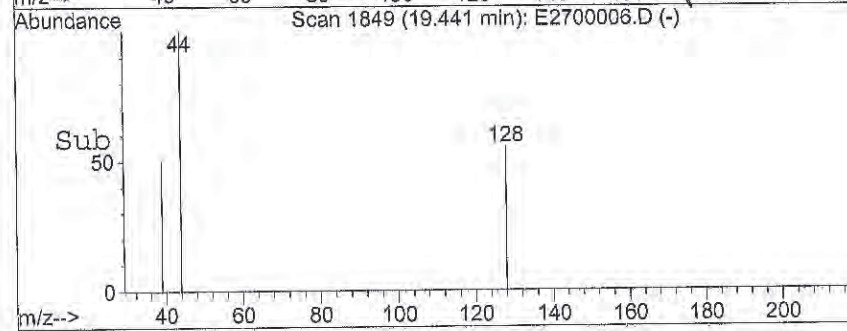
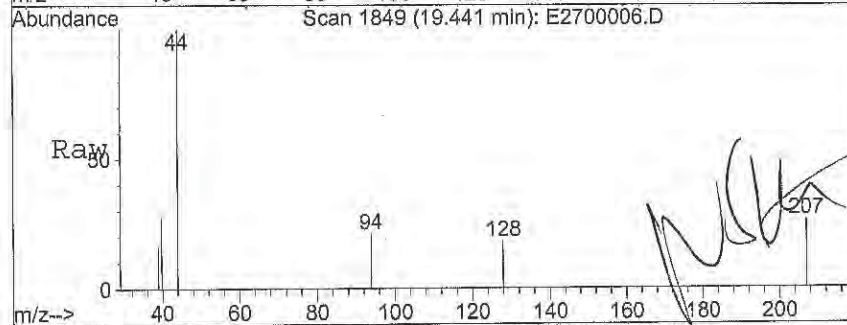
Tgt Ion:119 Resp: 365
 Ion Ratio Lower Upper
 119 100
 134 0.0 17.4 26.2#
 91 0.0 19.6 29.4#





#77
Naphthalene
Concen: 0.02 ug/L
RT: 19.44 min Scan# 1849
Delta R.T. -0.01 min
Lab File: E2700006.D
Acq: 27 May 2014 12:03 pm

Tgt Ion:128 Resp: 337



Data File : C:\HPCHEM\1\DATA\052714L3\E2700006.D

Vial: 5

Acq On : 27 May 2014 12:03 pm

Operator: DN

Sample : 3E42701-05

Inst : GC/MS Ins

Misc : 100cc SVL-502-SA5D-SV-18.0-19.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 12:34 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1697668	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.91	117	1271700	12.50	ug/L	-0.02
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	687505	12.50	ug/L	-0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	477777	10.82	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	86.56%
3) Chloroform-d (SU6)	9.18	84	774734	12.23	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	97.84%
4) Methylene Chloride-d2 (SU5)	7.07	86	449679	12.14	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	97.12%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	480401	15.92	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	127.36%#
6) Benzene-d6 (SU7)	9.92	84	1508415	11.32	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	90.56%
8) Toluene-d8 (SU3)	12.20	98	1488174	12.33	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	98.64%
9) 4-Bromofluorobenzene (SU4)	15.22	95	713802	14.33	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	114.64%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700006.D SS072713.M

Tue May 27 12:34:58 2014

Page 1

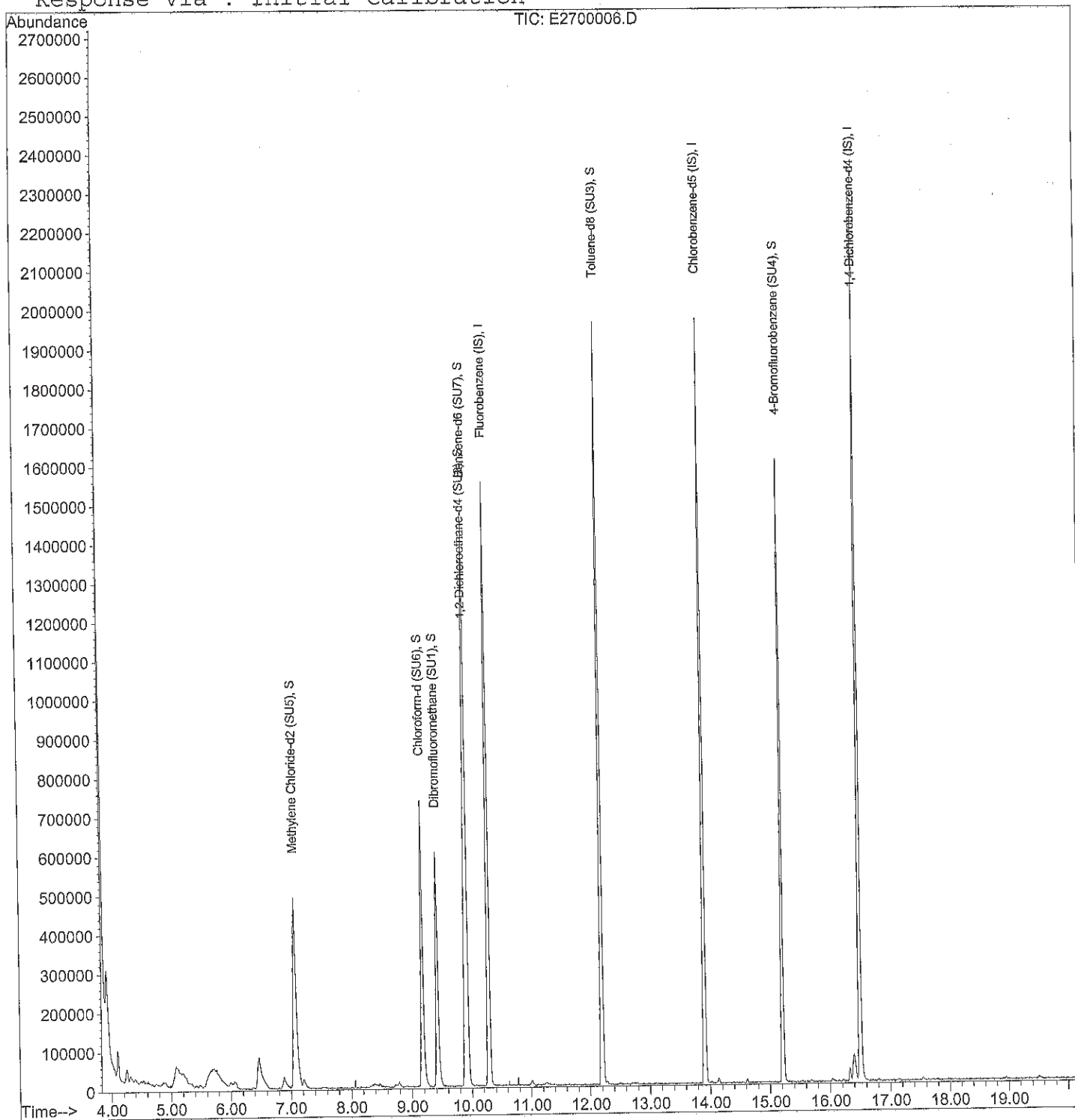
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700006.D
 Acq On : 27 May 2014 12:03 pm
 Sample : 3E42701-05
 Misc : 100cc SVL-502-SA5D-SV-18.0-19.0
 MS Integration Params: rteint.p
 Quant Time: May 27 12:34 19114

Vial: 5
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E2700007.D
 Acq On : 27 May 2014 12:33 pm
 Sample : 3E42701-06
 Misc : 100cc SVL-513-SA5D-SV-5.0-6.0
 MS Integration Params: rteint.p
 Quant Time: May 27 12:54 19114

Vial: 6
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1848407	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1360103	12.50	ug/L	-0.01
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	711592	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	504526	10.94	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	87.52%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	477785	10.90	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	87.20%
39) Toluene-d8 (SU3)	12.20	98	1603606	12.64	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	101.12%
58) 4-Bromofluorobenzene (SU4)	15.22	95	738691	13.28	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	106.24%

Target Compounds

					Qvalue	
3) (F12) Dichlorodifluorometh	4.11	85	341	0.08	ug/L	44
4) Chloromethane	4.39	50	4839	0.34	ug/L	52
6) Bromomethane	5.09	96	10632	3.45	ug/L	98
7) Chloroethane	5.29	64	1363	1.57	ug/L	95
11) Acetone	6.45	58	16223	19.93	ug/L	81
12) (IPA) Leak Check Compound	6.47	45	164073	738.69	ug/L	87
13) Carbon disulfide	6.85	76	5807	0.38	ug/L	76
14) Methylene Chloride	7.06	84	5708	1.12	ug/L	1
15) (TBA) tert-Butanol	6.89	59	4140	13.13	ug/L	77
19) cis-1,2-Dichloroethene	9.04	96	257	0.04	ug/L	3
21) (MEK) 2-Butanone	8.81	72	371	0.71	ug/L	1
24) Chloroform	9.21	83	2172	0.22	ug/L	18
25) (ETBE) 2-ethoxy 2-methyl p	8.33	59	1027	0.08	ug/L	44
31) Benzene	9.92	78	9124	0.52	ug/L	77
32) 1,2-Dichloroethane	9.93	62	6455	1.05	ug/L	1
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	6862	2.53	ug/L	100
41) Toluene	12.28	91	15225	0.82	ug/L	0.0168 95 0.0168
46) 2-Hexanone	12.96	43	769	0.26	ug/L	37
51) Ethylbenzene	14.02	91	7558	0.36	ug/L	0.0072 23
52) m,p-Xylenes	14.14	106	8652	1.15	ug/L	0.023 85
53) o-Xylene	14.61	106	4334	0.59	ug/L	0.0118 90
54) Styrene	14.62	104	2683	-0.62	ug/L	76

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E2700007.D

Vial: 6

Acq On : 27 May 2014 12:33 pm

Operator: DN

Sample : 3E42701-06

Inst : GC/MS Ins

Misc : 100cc SVL-513-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 12:54 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56) Isopropylbenzene	14.99	105	259	0.01	ug/L #	55
62) n-Propylbenzene	15.46	91	1476	0.05	ug/L #	56
63) 2-Chlorotoluene	15.46	91	1476	0.08	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.62	105	289	0.02	ug/L #	31
66) tert-Butylbenzene	16.06	119	584	0.04	ug/L #	71
67) 1,2,4-Trimethylbenzene	16.06	105	3490	0.19	ug/L #	88
68) sec-Butylbenzene	16.14	105	594	0.02	ug/L #	62
69) p-Isopropyltoluene	16.38	119	917	0.05	ug/L #	52
77) Naphthalene	19.44	128	262	0.02	ug/L	100

(#) = qualifier out of range (m) = manual integration

E2700007.D MW111313.M

Tue May 27 12:54:08 2014

Page 2

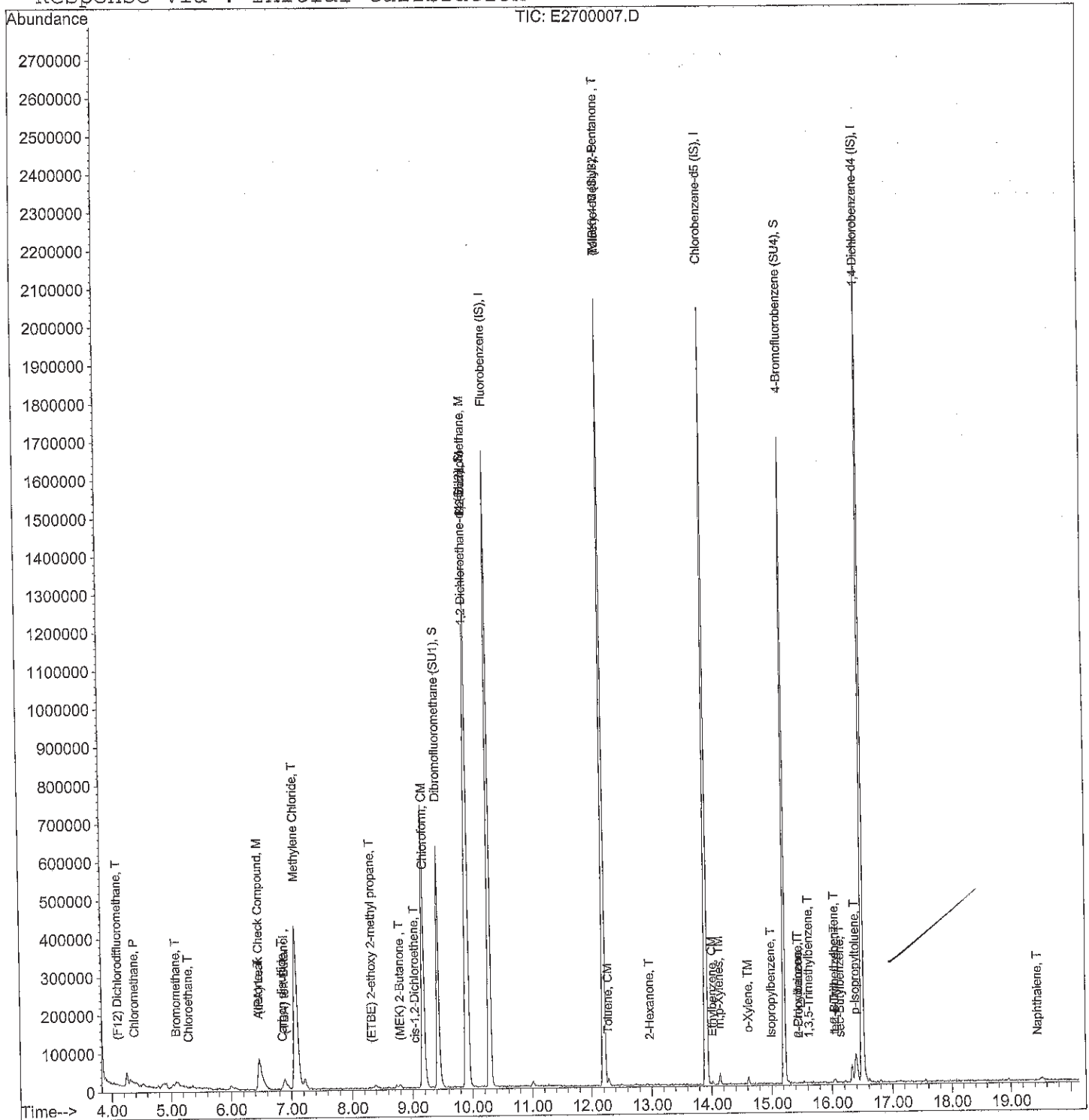
Quantitation Report

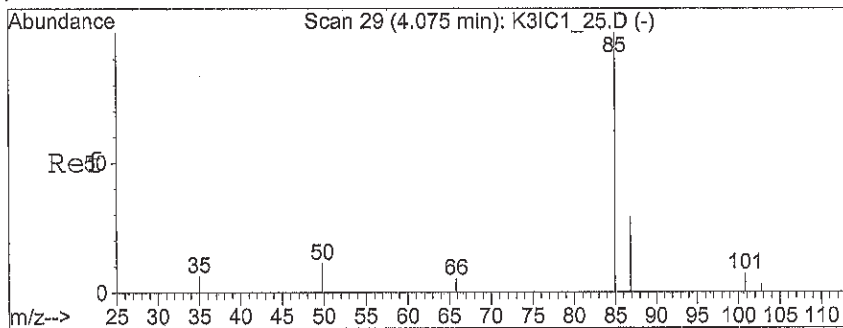
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 Acq On : 27 May 2014 12:33 pm
 Sample : 3E42701-06
 Misc : 100cc SVL-513-SA5D-SV-5.0-6.0
 MS Integration Params: rteint.p
 Quant Time: May 27 12:54 19114

Vial: 6
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

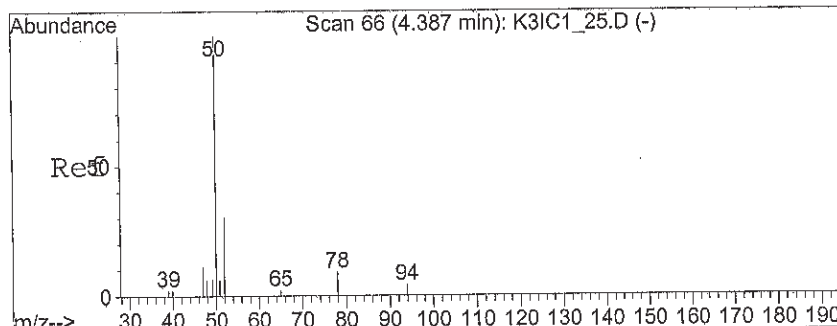
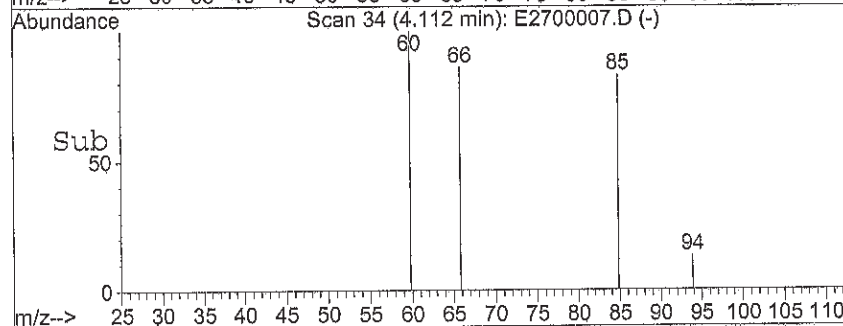
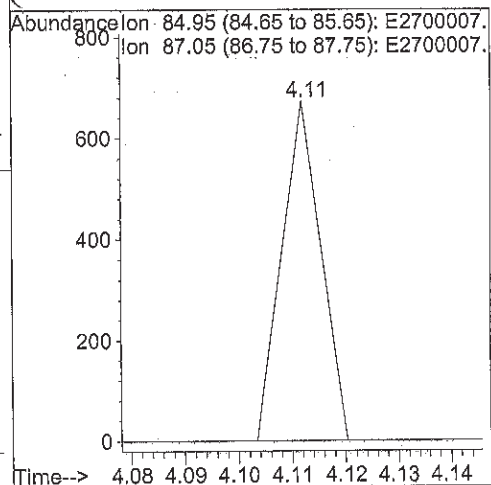
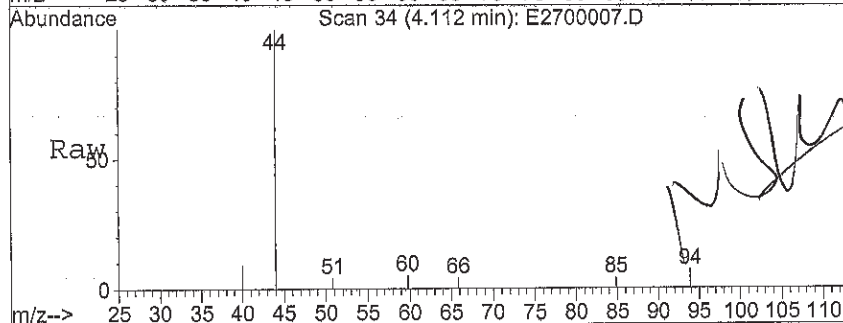
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration





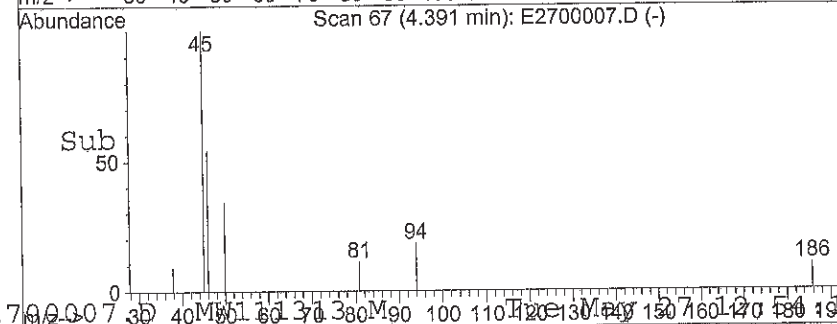
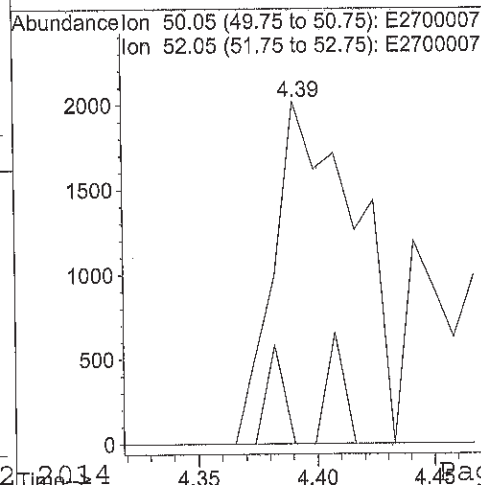
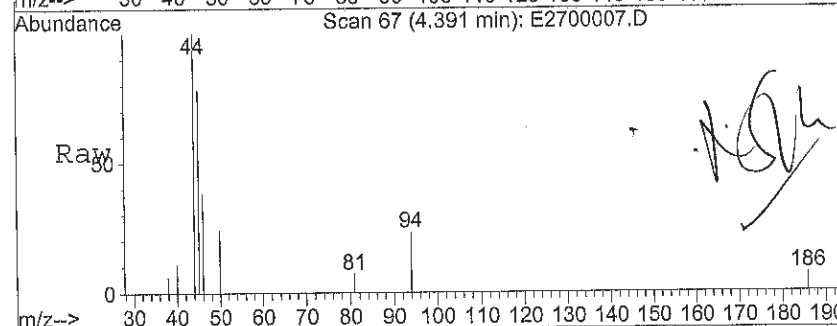
#3
 (F12) Dichlorodifluoromethane
 Concen: 0.08 ug/L
 RT: 4.11 min Scan# 34
 Delta R.T. 0.04 min
 Lab File: E2700007.D
 Acq: 27 May 2014 12:33 pm

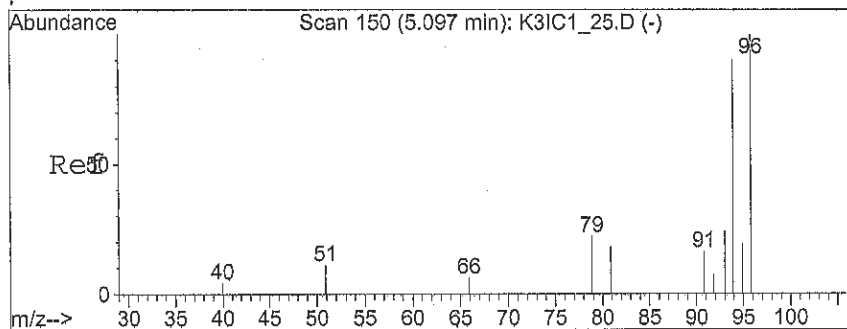
Tgt Ion: 85 Resp: 341
 Ion Ratio Lower Upper
 85 100
 87 0.0 24.6 37.0#



#4
 Chloromethane
 Concen: 0.34 ug/L
 RT: 4.39 min Scan# 67
 Delta R.T. 0.00 min
 Lab File: E2700007.D
 Acq: 27 May 2014 12:33 pm

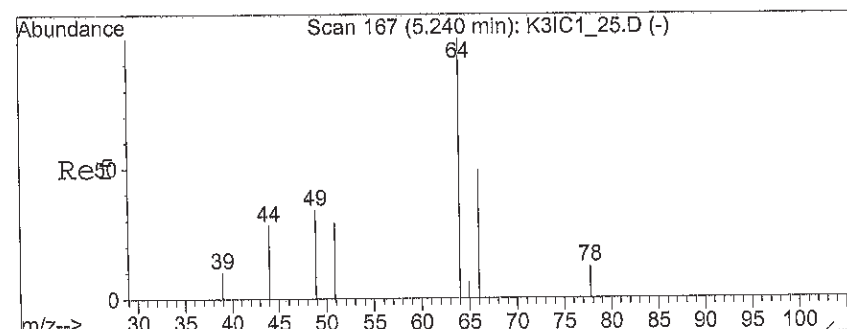
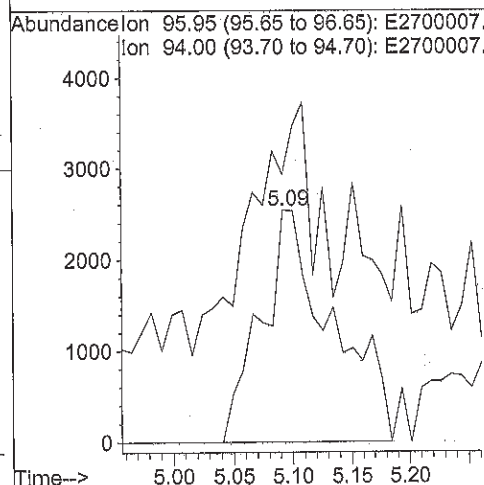
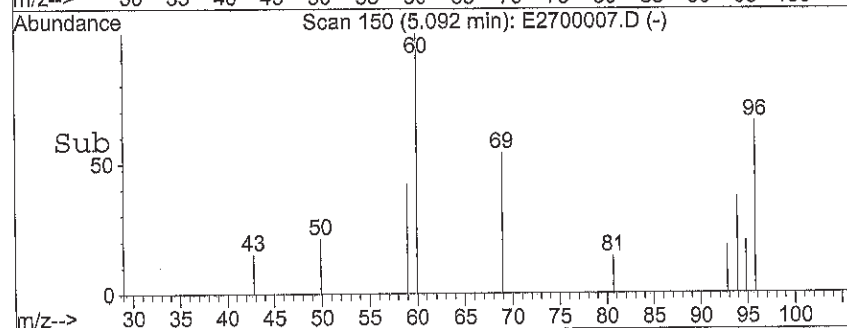
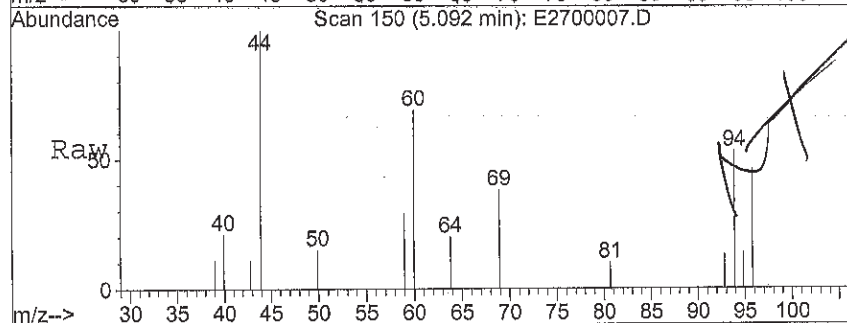
Tgt Ion: 50 Resp: 4839
 Ion Ratio Lower Upper
 50 100
 52 6.1 26.9 40.3#





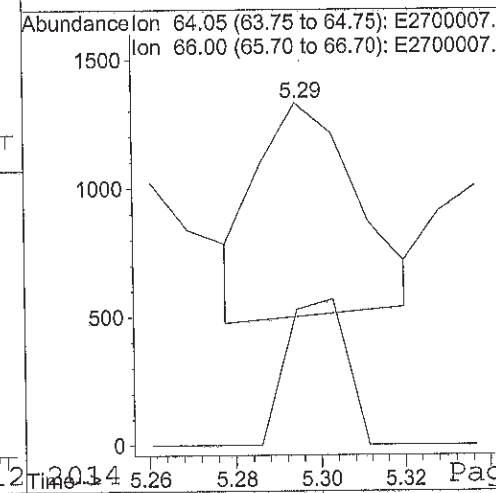
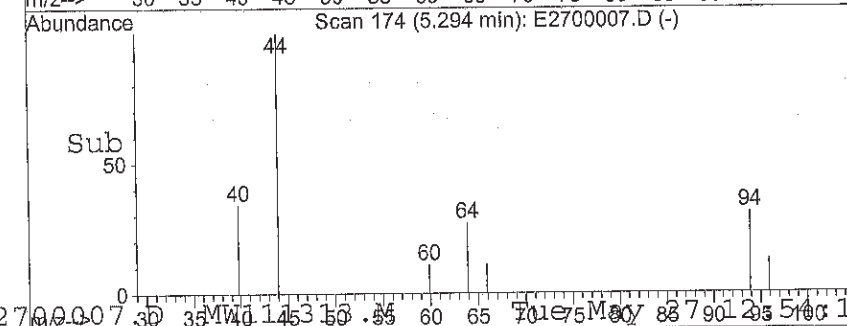
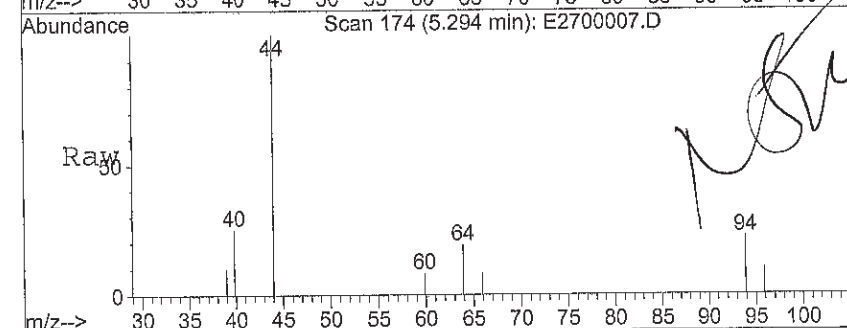
#6
Bromomethane
Concen: 3.45 ug/L
RT: 5.09 min Scan# 150
Delta R.T. -0.00 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

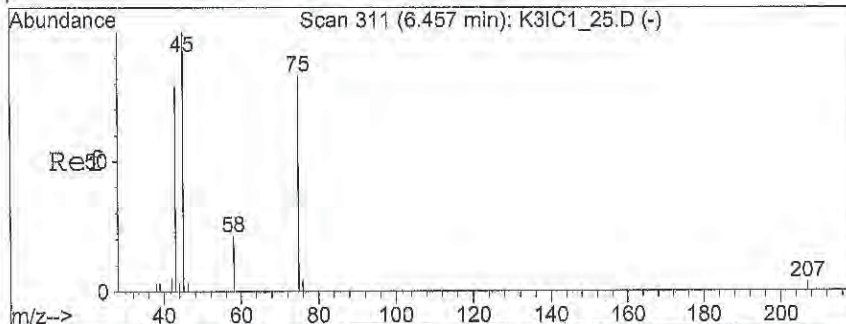
Tgt Ion: 96 Resp: 10632
Ion Ratio Lower Upper
96 100
94 124.2 101.0 151.4



#7
Chloroethane
Concen: 1.57 ug/L
RT: 5.29 min Scan# 174
Delta R.T. 0.05 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

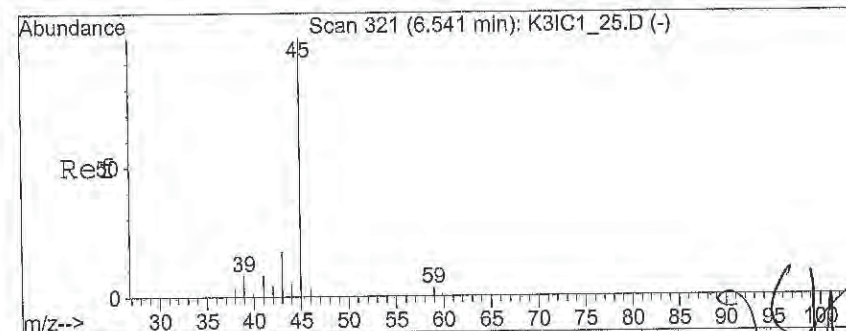
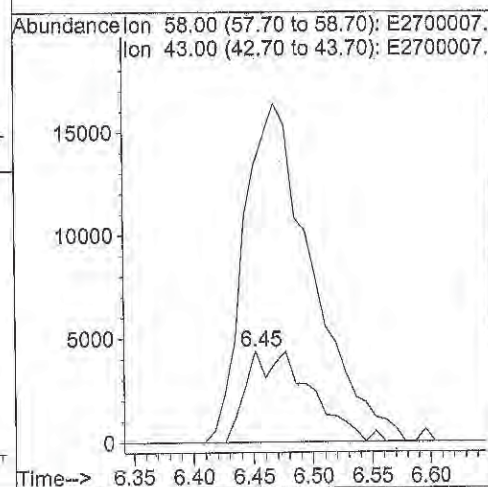
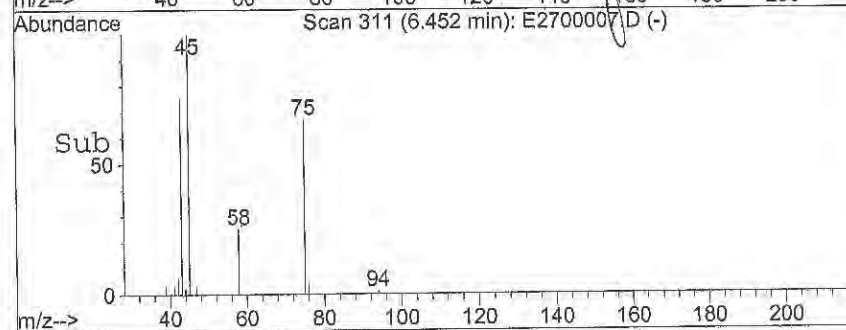
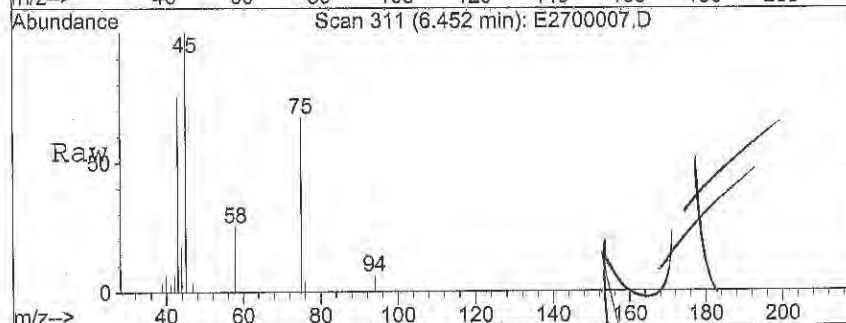
Tgt Ion: 64 Resp: 1363
Ion Ratio Lower Upper
64 100
66 40.7 35.4 53.0





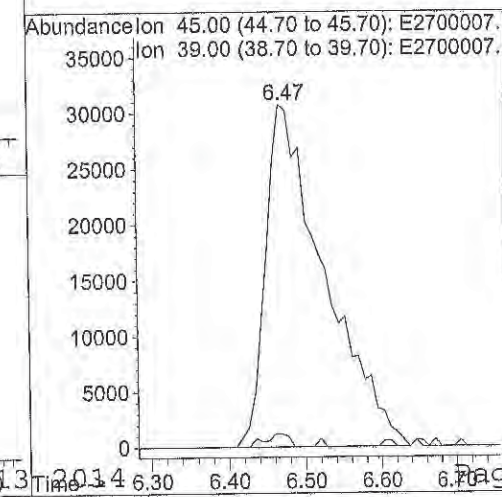
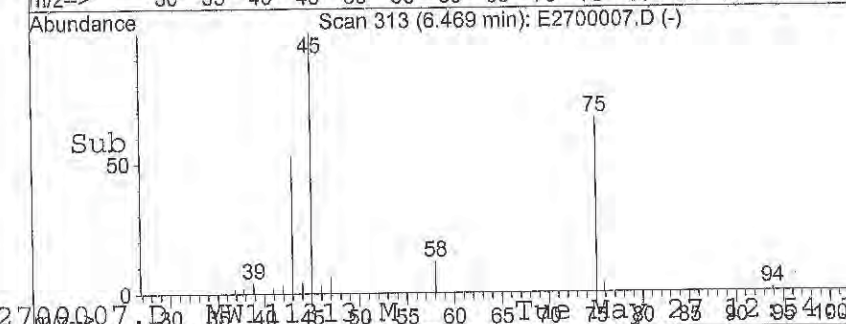
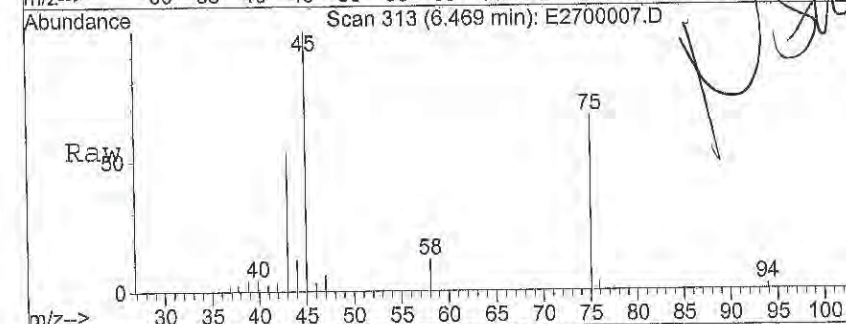
#11
Acetone
Concen: 19.93 ug/L
RT: 6.45 min Scan# 311
Delta R.T. -0.00 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

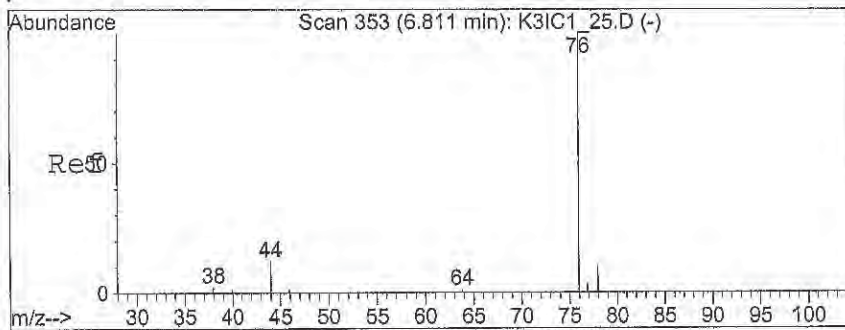
Tgt Ion: 58 Resp: 16223
Ion Ratio Lower Upper
58 100
43 401.3 360.9 541.3



#12
(IPA) Leak Check Compound
Concen: 738.69 ug/L
RT: 6.47 min Scan# 313
Delta R.T. -0.07 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

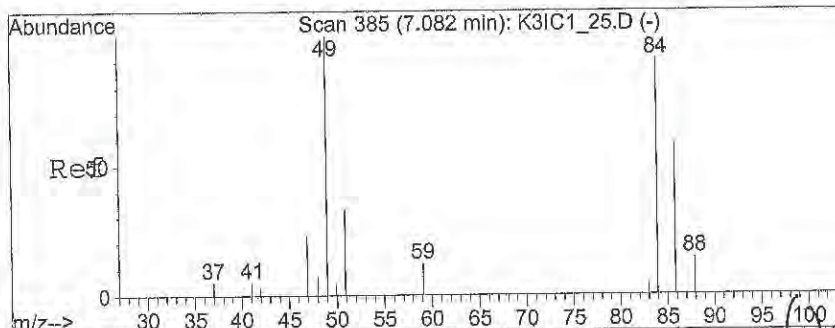
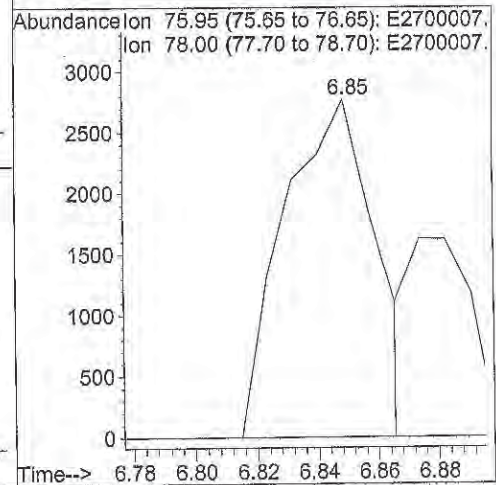
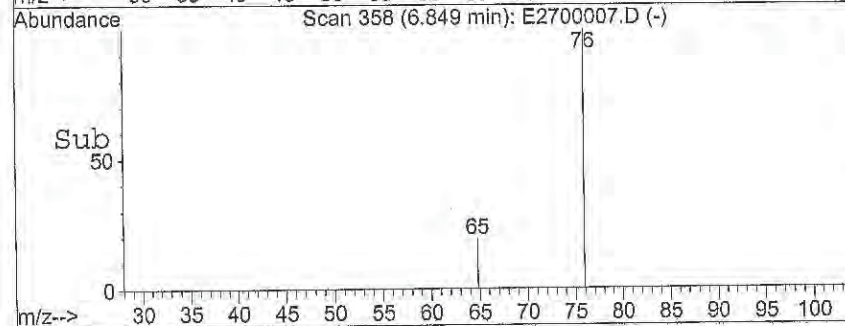
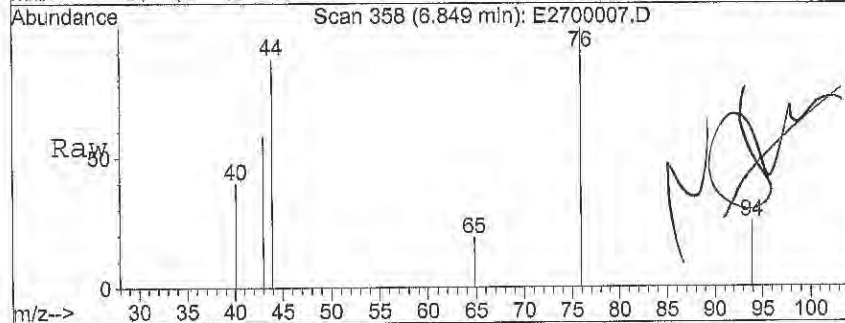
Tgt Ion: 45 Resp: 164073
Ion Ratio Lower Upper
45 100
39 1.6 4.9 7.3#





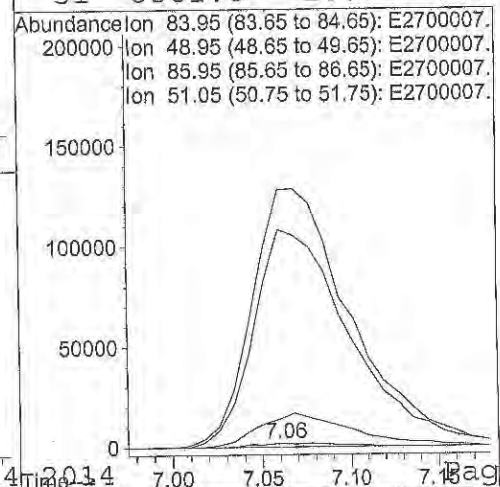
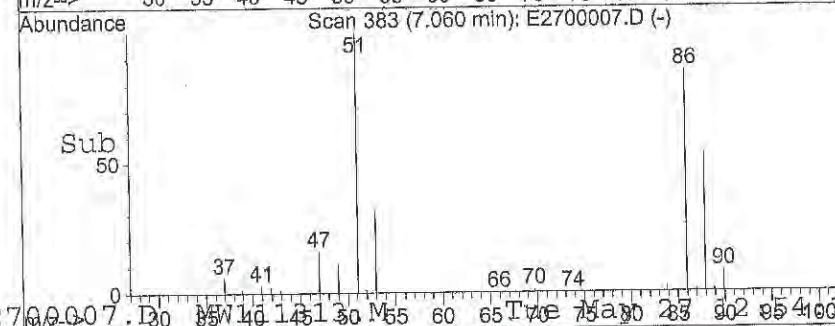
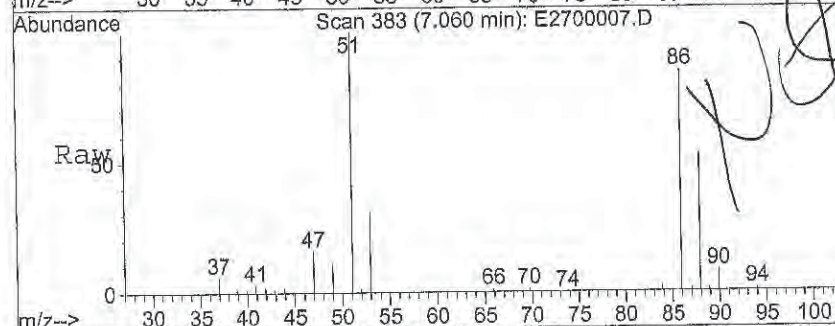
#13
Carbon disulfide
Concen: 0.38 ug/L
RT: 6.85 min Scan# 358
Delta R.T. 0.04 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

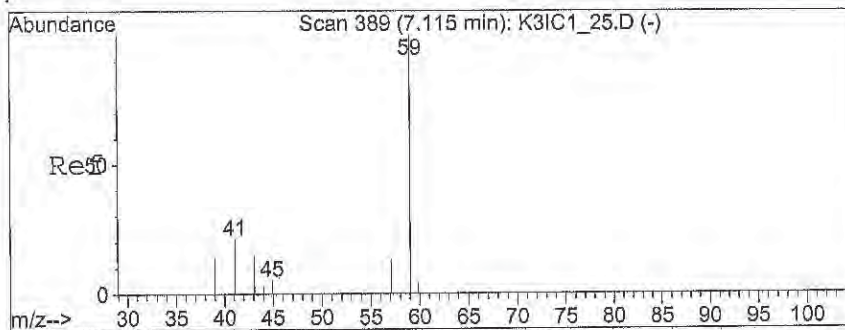
Tgt Ion: 76 Resp: 5807
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#14
Methylene Chloride
Concen: 1.12 ug/L
RT: 7.06 min Scan# 383
Delta R.T. -0.02 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

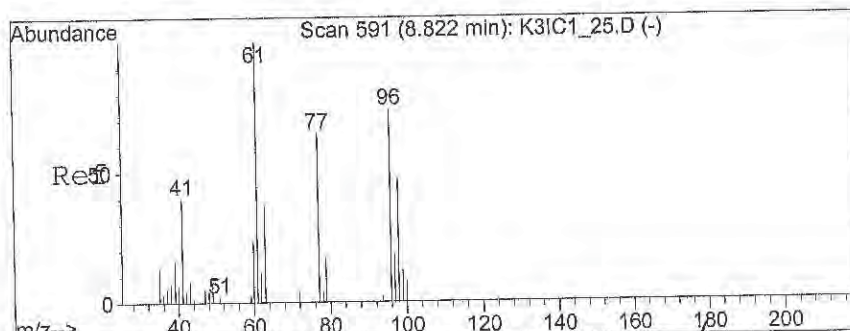
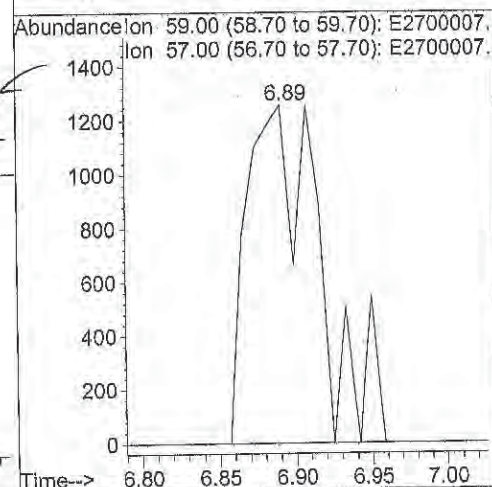
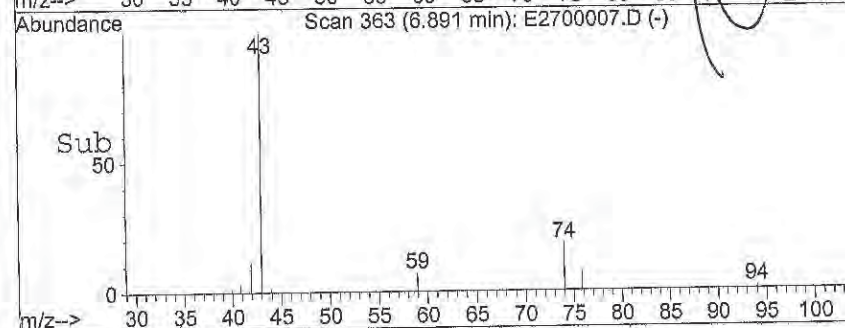
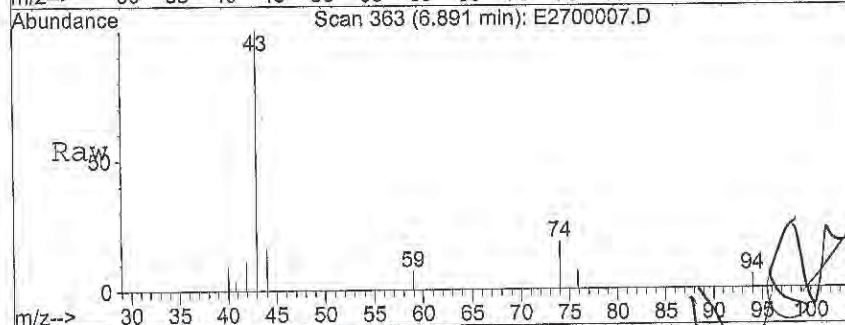
Tgt Ion: 84 Resp: 5708
Ion Ratio Lower Upper
84 100
49 1068.6 89.8 134.6#
86 7296.3 51.1 76.7#
51 8861.6 28.5 42.7#





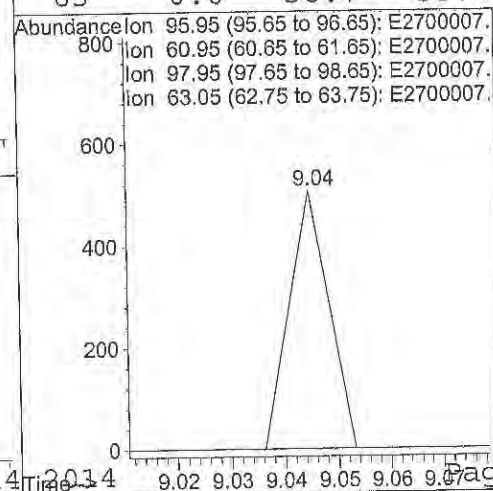
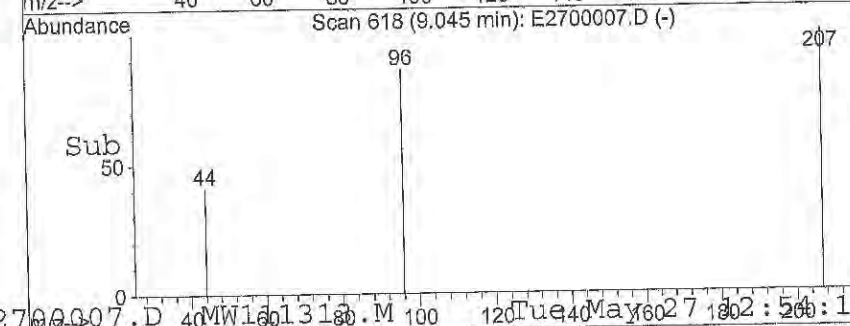
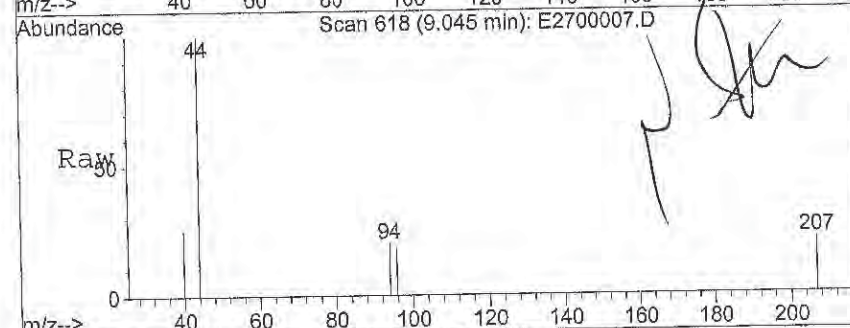
#15
 (TBA) tert-Butanol
 Concen: 13.13 ug/L
 RT: 6.89 min Scan# 363
 Delta R.T. -0.22 min
 Lab File: E2700007.D
 Acq: 27 May 2014 12:33 pm

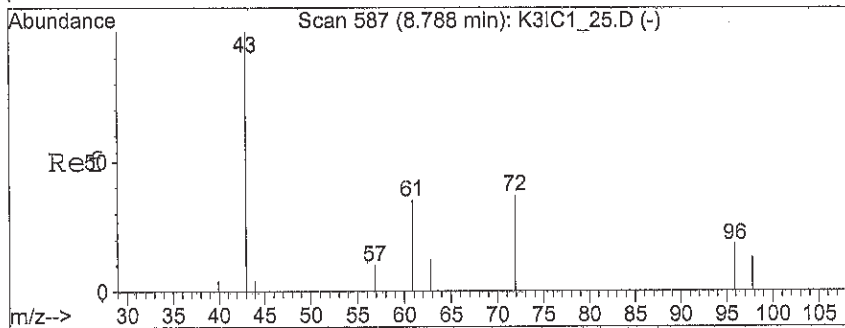
Tgt Ion: 59 Resp: 4140
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#19
 cis-1,2-Dichloroethene
 Concen: 0.04 ug/L
 RT: 9.04 min Scan# 618
 Delta R.T. 0.22 min
 Lab File: E2700007.D
 Acq: 27 May 2014 12:33 pm

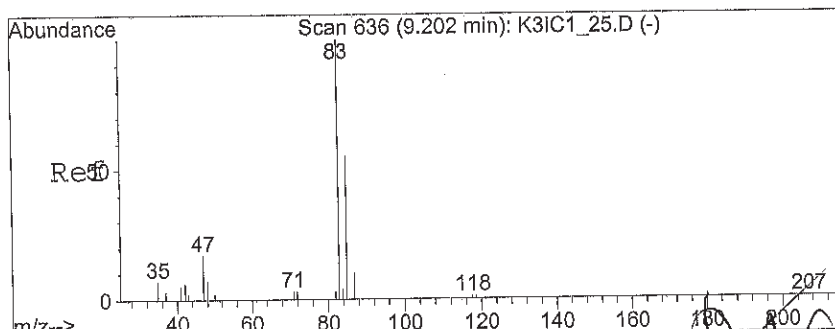
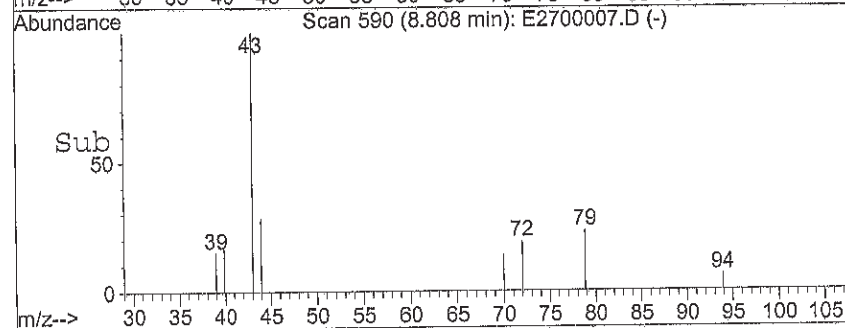
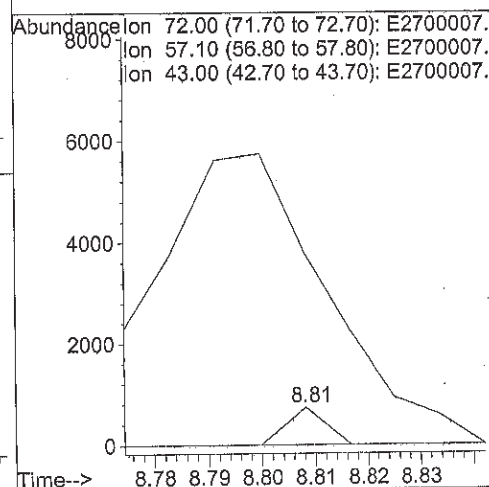
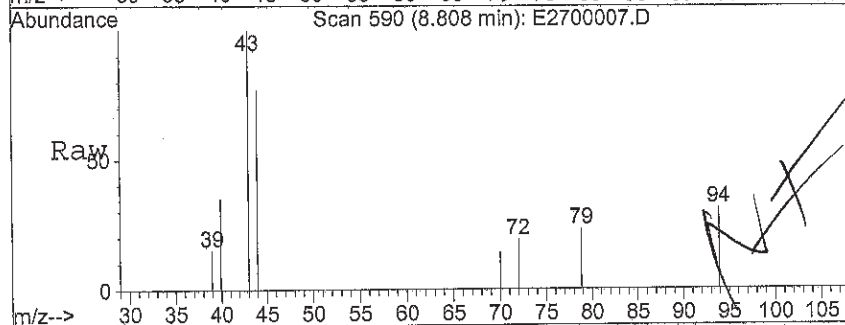
Tgt Ion: 96 Resp: 257
 Ion Ratio Lower Upper
 96 100
 61 0.0 110.3 165.5#
 98 0.0 49.8 74.6#
 63 0.0 36.7 55.1#





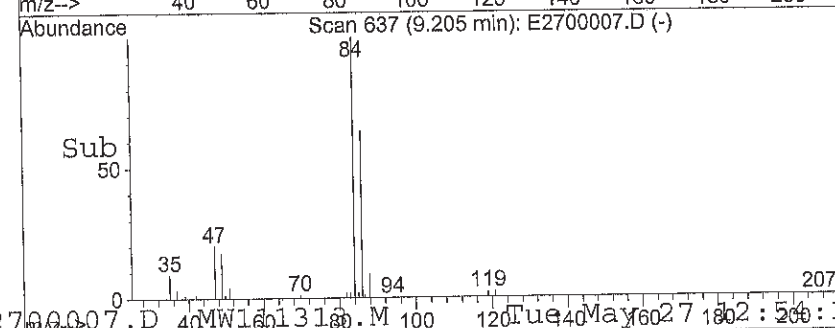
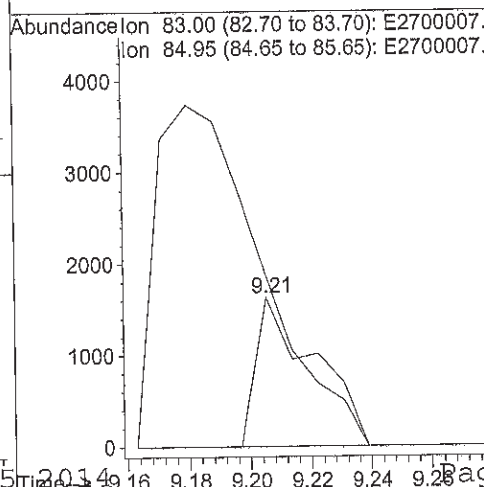
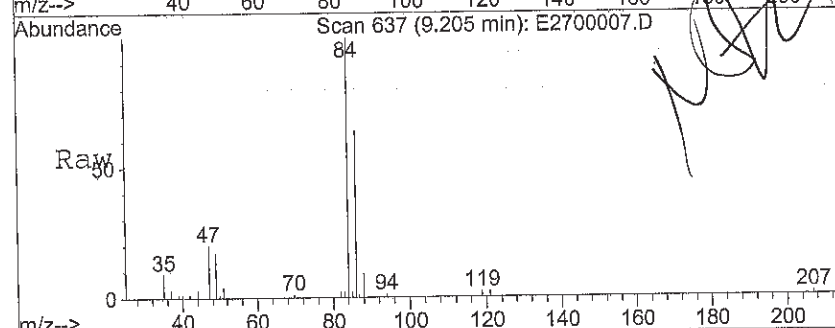
#21
 (MEK) 2-Butanone
 Concen: 0.71 ug/L
 RT: 8.81 min Scan# 590
 Delta R.T. 0.02 min
 Lab File: E2700007.D
 Acq: 27 May 2014 12:33 pm

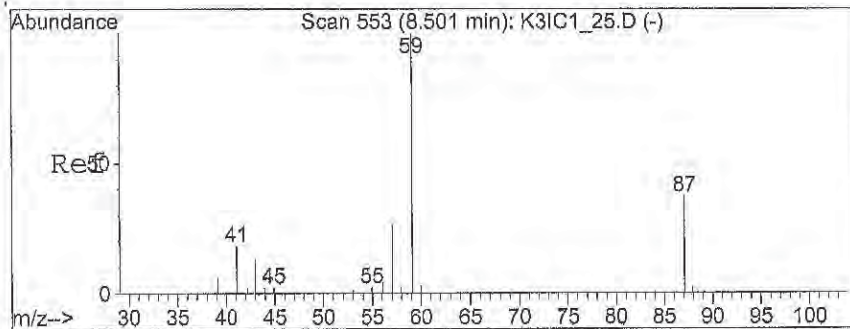
Tgt Ion: 72 Resp: 371
 Ion Ratio Lower Upper
 72 100
 57 0.0 17.5 26.3#
 43 3580.3 314.2 471.2#



#24
 Chloroform
 Concen: 0.22 ug/L
 RT: 9.21 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: E2700007.D
 Acq: 27 May 2014 12:33 pm

Tgt Ion: 83 Resp: 2172
 Ion Ratio Lower Upper
 83 100
 85 0.0 51.8 77.6#





#25

(ETBE) 2-ethoxy 2-methyl propan

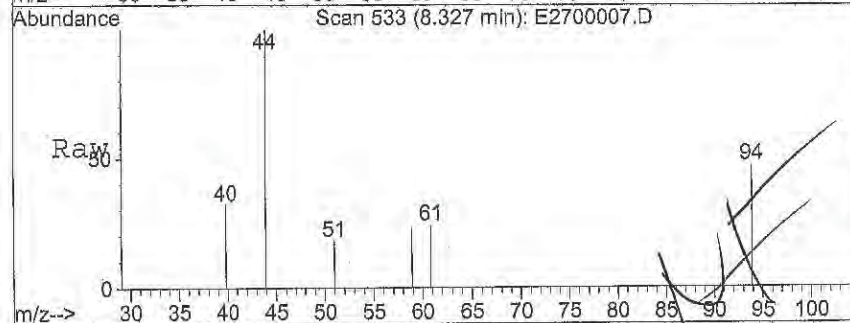
Concen: 0.08 ug/L

RT: 8.33 min Scan# 533

Delta R.T. -0.17 min

Lab File: E2700007.D

Acq: 27 May 2014 12:33 pm



Tgt Ion: 59 Resp: 1027

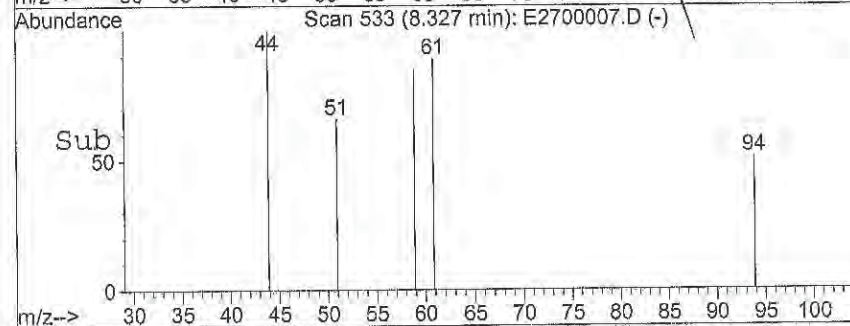
Ion Ratio Lower Upper

59 100

87 0.0 27.8 41.8#

57 0.0 19.8 29.6#

77 0.0 0.0 0.0



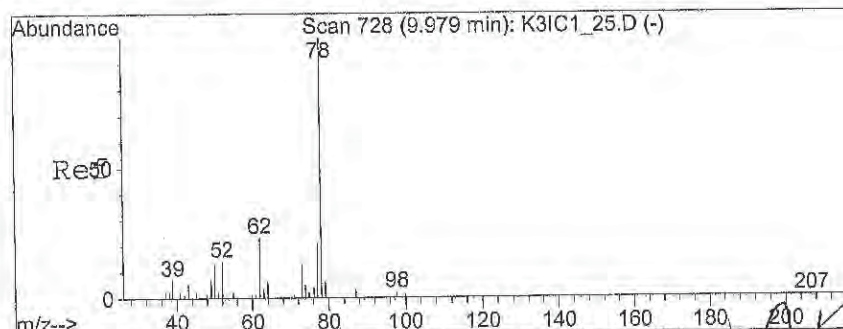
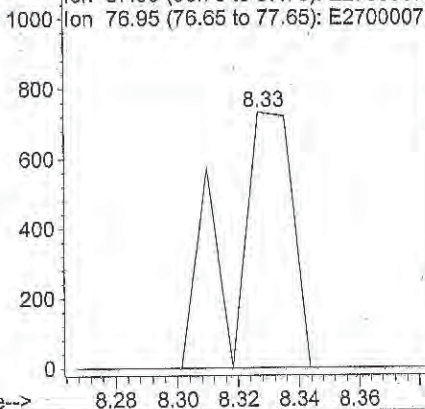
Abundance

Ion 59.00 (58.70 to 59.70): E2700007.

Ion 87.10 (86.80 to 87.80): E2700007.

Ion 57.00 (56.70 to 57.70): E2700007.

Ion 76.95 (76.65 to 77.65): E2700007.



#31

Benzene

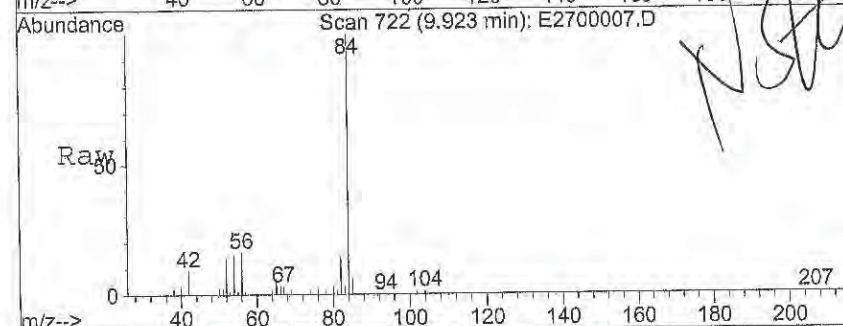
Concen: 0.52 ug/L

RT: 9.92 min Scan# 722

Delta R.T. -0.06 min

Lab File: E2700007.D

Acq: 27 May 2014 12:33 pm



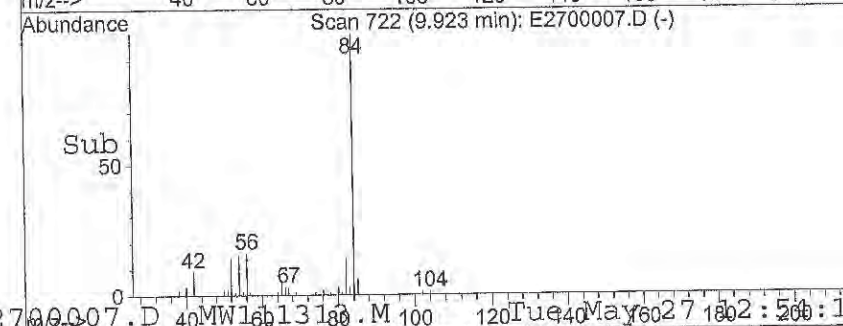
Tgt Ion: 78 Resp: 9124

Ion Ratio Lower Upper

78 100

51 0.0 14.2 21.2#

77 24.2 16.6 24.8

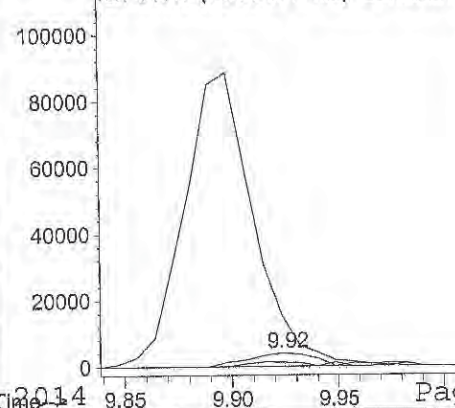


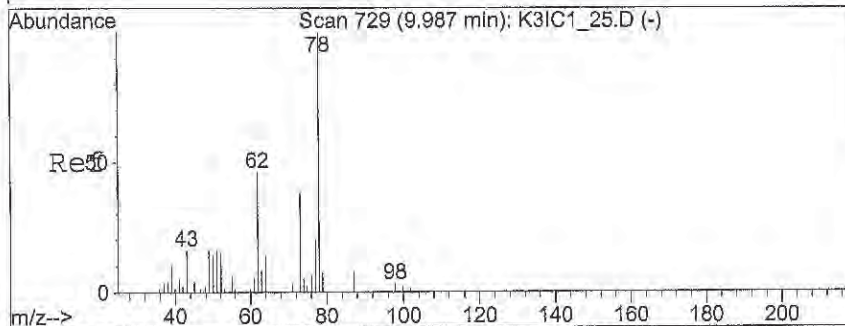
Abundance

Ion 78.10 (77.80 to 78.80): E2700007.

Ion 51.05 (50.75 to 51.75): E2700007.

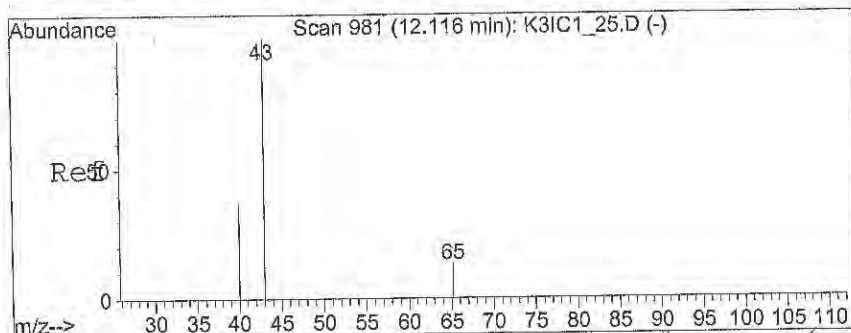
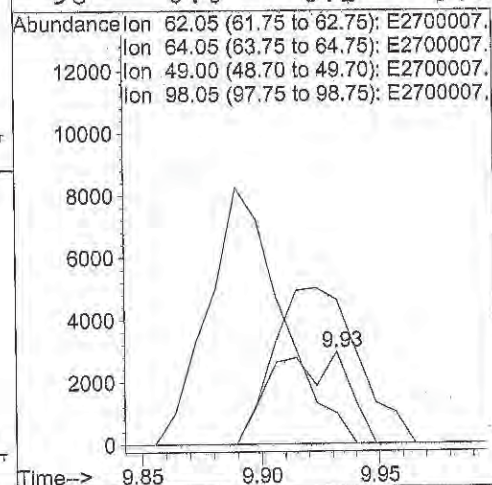
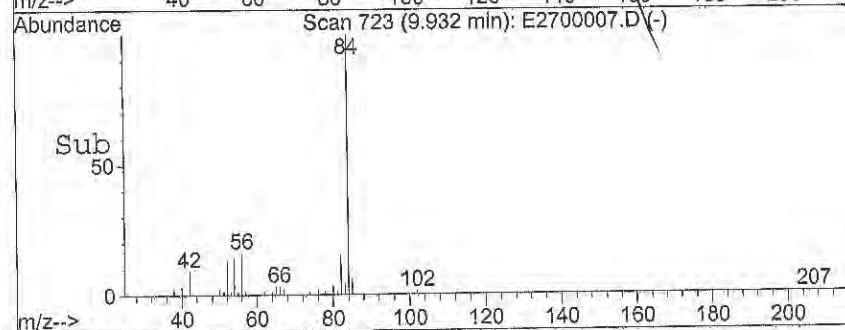
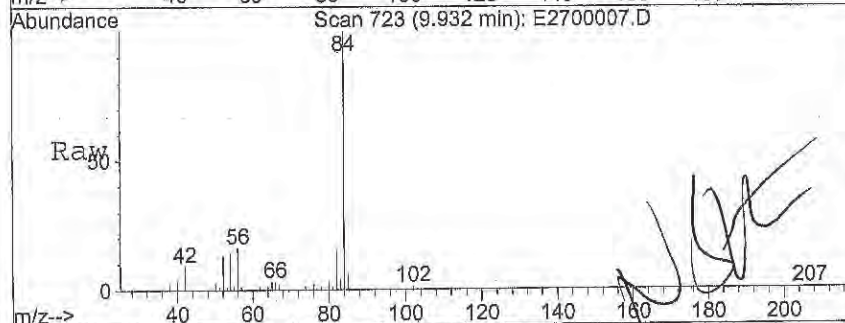
Ion 77.15 (76.85 to 77.85): E2700007.





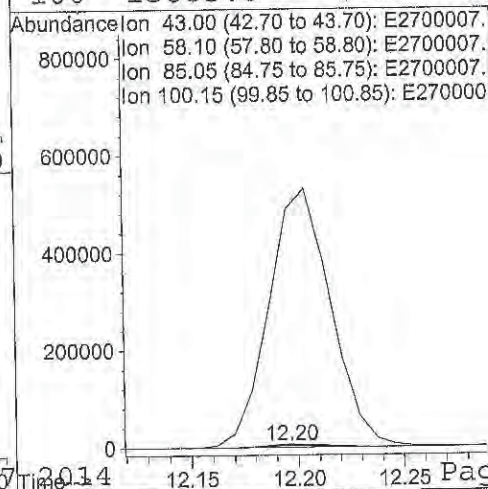
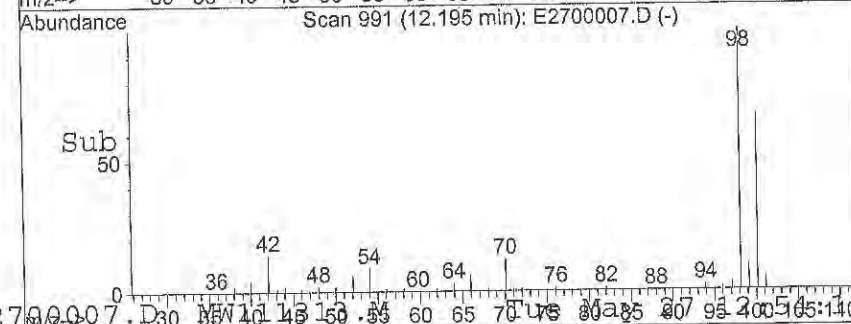
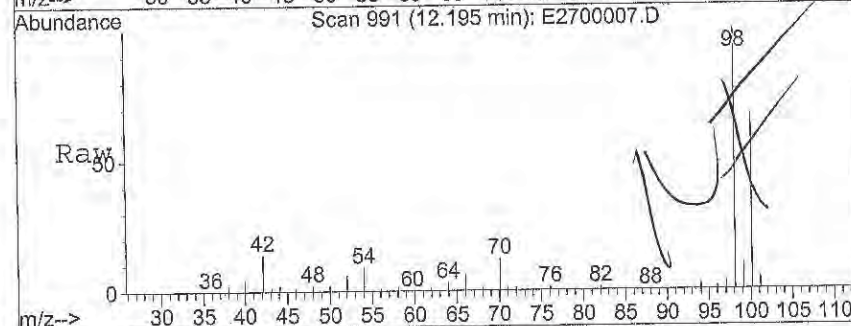
#32
1,2-Dichloroethane
Concen: 1.05 ug/L
RT: 9.93 min Scan# 723
Delta R.T. -0.06 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

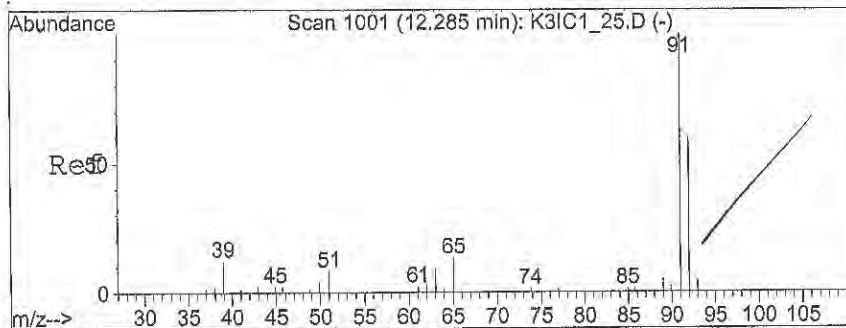
Tgt Ion: 62 Resp: 6455
Ion Ratio Lower Upper
62 100
64 192.0 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#



#40
(MIBK) 4-Methyl-2-Pentanone
Concen: 2.53 ug/L
RT: 12.20 min Scan# 991
Delta R.T. 0.08 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

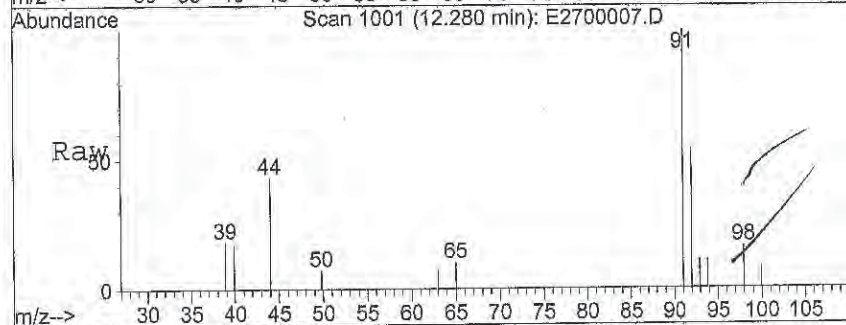
Tgt Ion: 43 Resp: 6862
Ion Ratio Lower Upper
43 100
58 176.5 0.0 0.0#
85 0.0 0.0 0.0
100 15683.0 0.0 0.0#



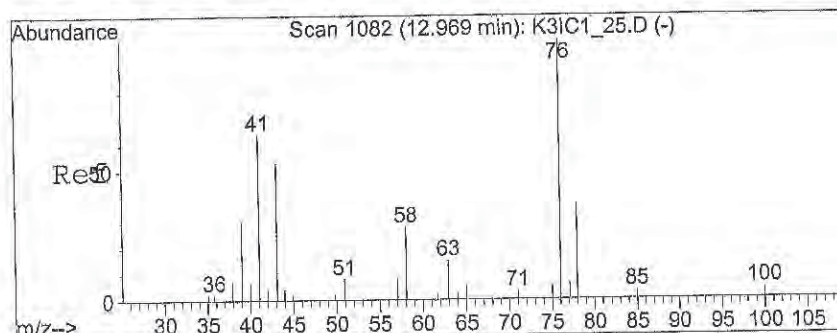
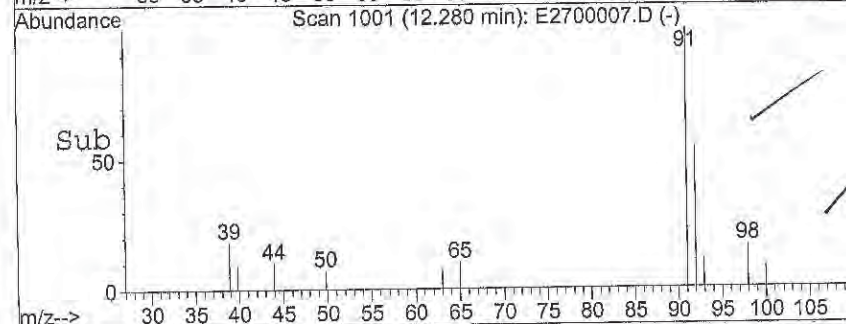
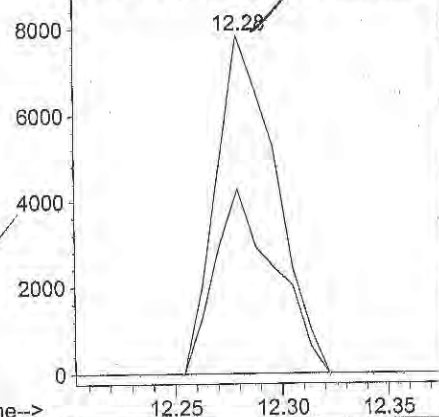


#41
Toluene
Concen: 0.82 ug/L
RT: 12.28 min Scan# 1001
Delta R.T. -0.00 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

Tgt Ion: 91 Resp: 15225
Ion Ratio Lower Upper
91 100
92 55.1 47.4 71.0

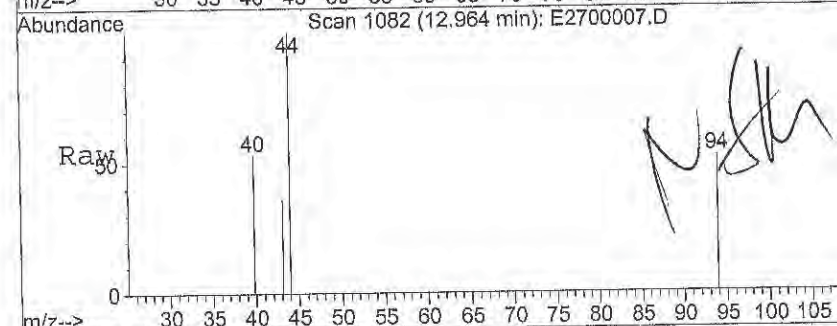


Abundance Ion 91.10 (90.80 to 91.80): E2700007.
Ion 92.10 (91.80 to 92.80): E2700007.

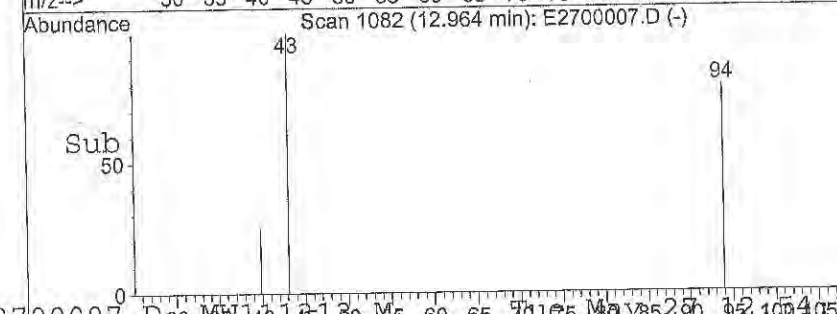
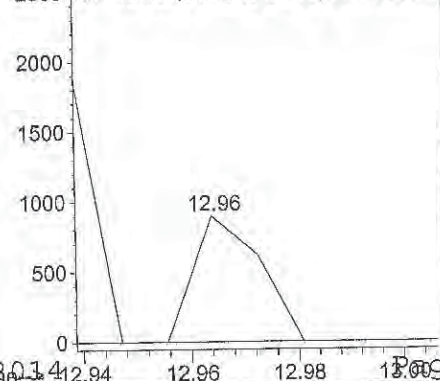


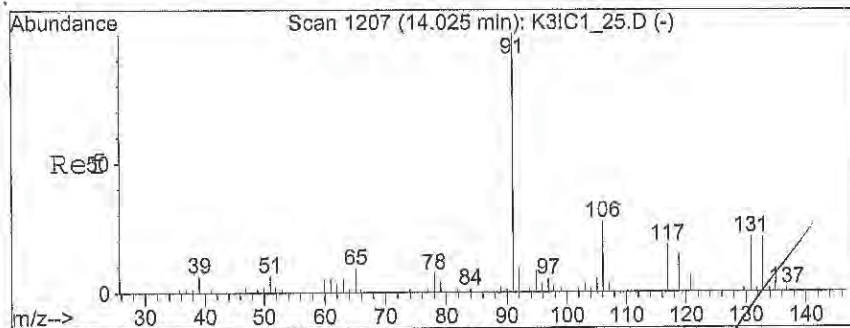
#46
2-Hexanone
Concen: 0.26 ug/L
RT: 12.96 min Scan# 1082
Delta R.T. -0.00 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

Tgt Ion: 43 Resp: 769
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#



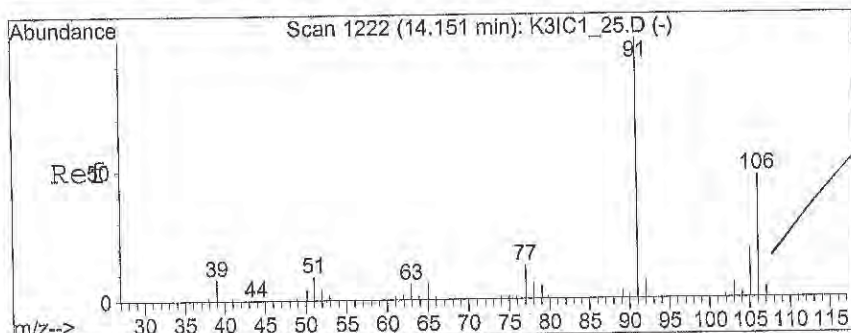
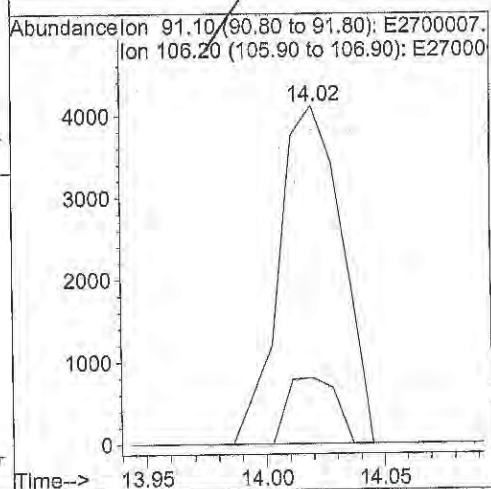
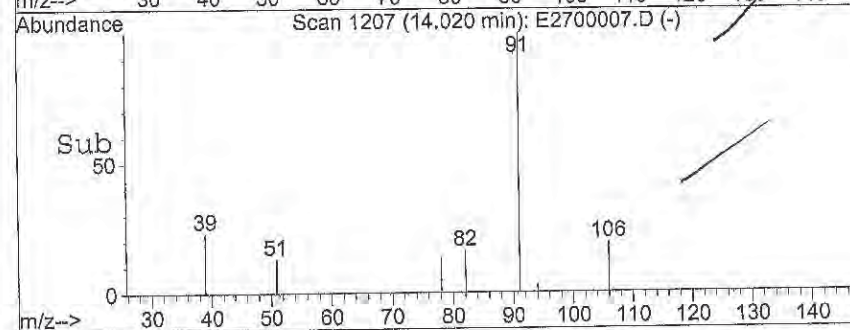
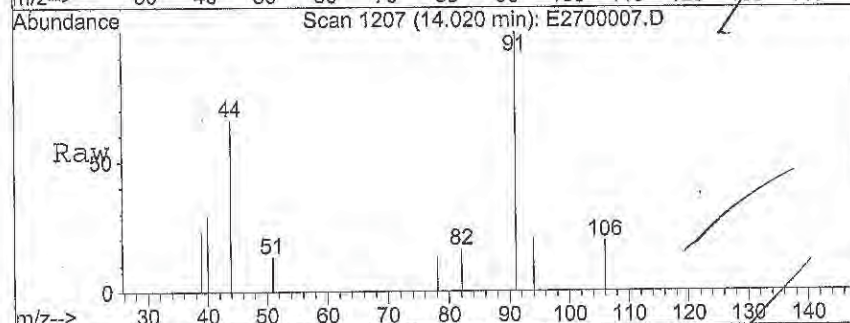
Abundance Ion 43.00 (42.70 to 43.70): E2700007.
Ion 58.10 (57.80 to 58.80): E2700007.
Ion 100.15 (99.85 to 100.85): E2700000.
Ion 85.05 (84.75 to 85.75): E2700007.





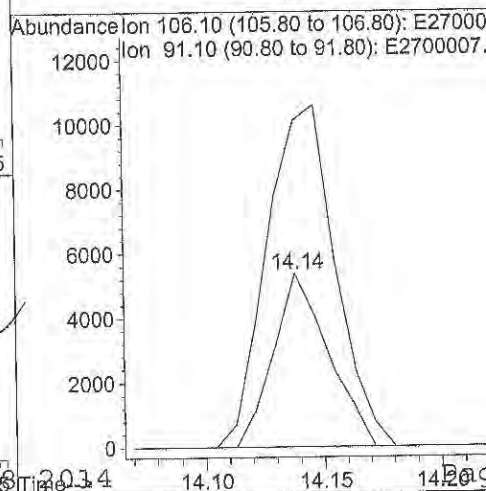
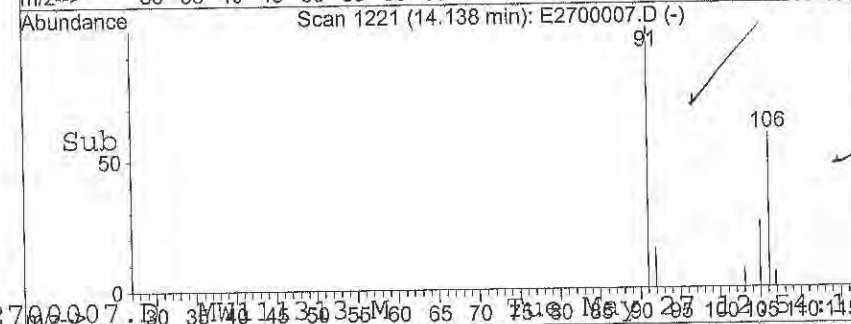
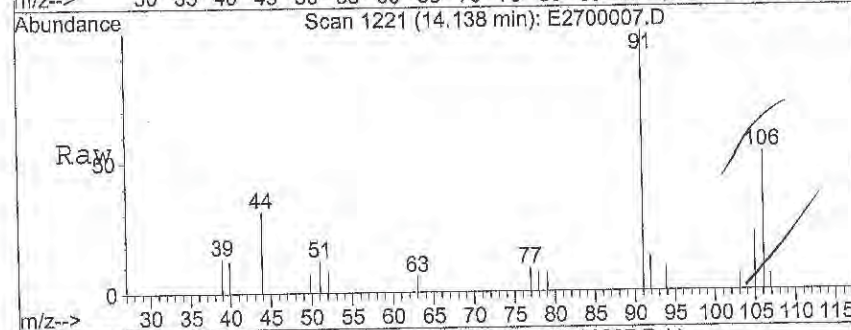
#51
Ethylbenzene
Concen: 0.36 ug/L
RT: 14.02 min Scan# 1207
Delta R.T. -0.00 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

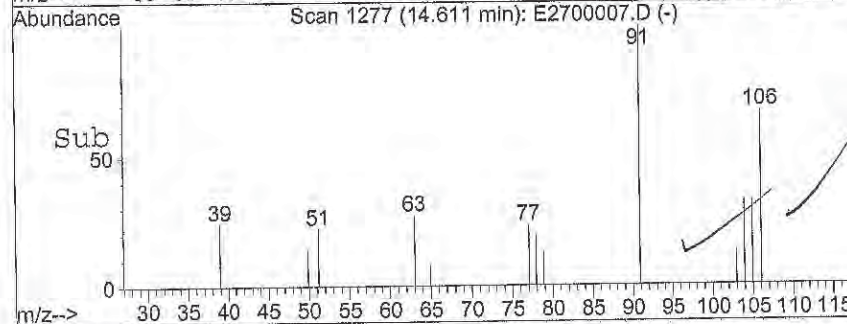
Tgt Ion: 91 Resp: 7558
Ion Ratio Lower Upper
91 100
106 15.1 23.5 35.3#



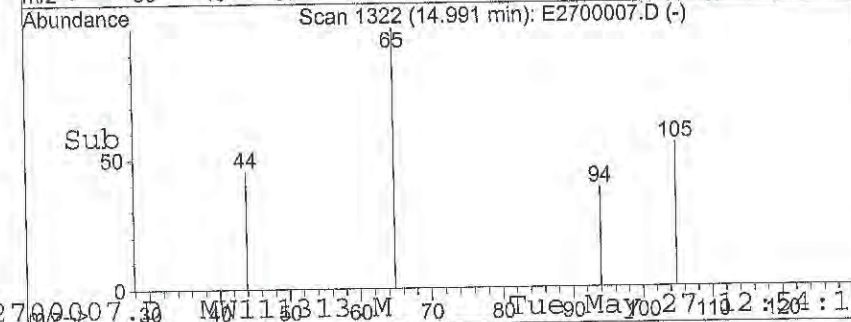
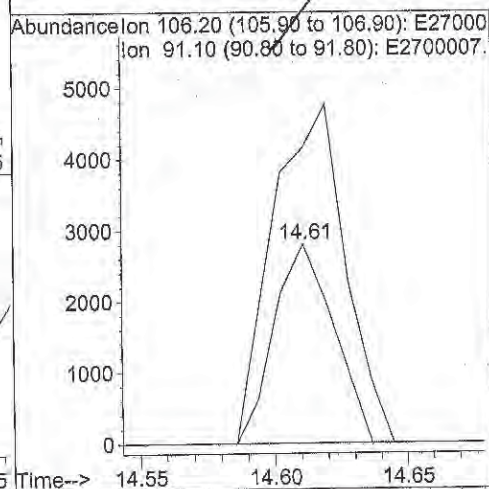
#52
m,p-Xylenes
Concen: 1.15 ug/L
RT: 14.14 min Scan# 1221
Delta R.T. -0.01 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

Tgt Ion: 106 Resp: 8652
Ion Ratio Lower Upper
106 100
91 244.8 177.1 265.7

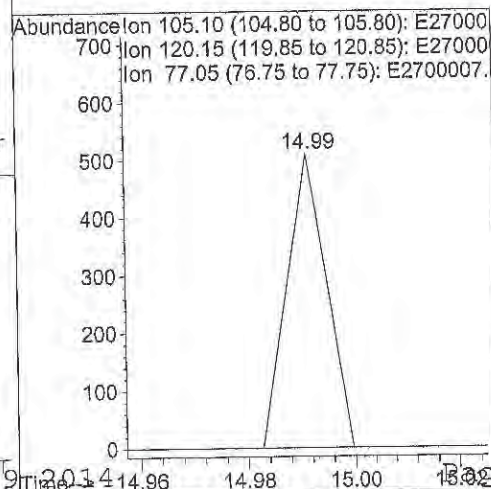


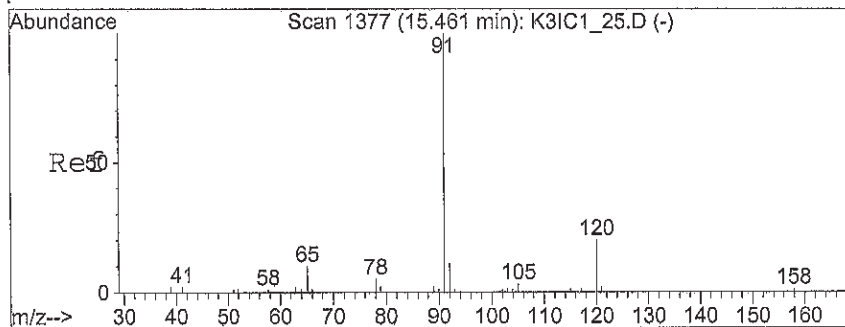


Tgt	Ion:106	Resp:	4334
Ion	Ratio	Lower	Upper
106	100		
91	207.3	179.0	268.6



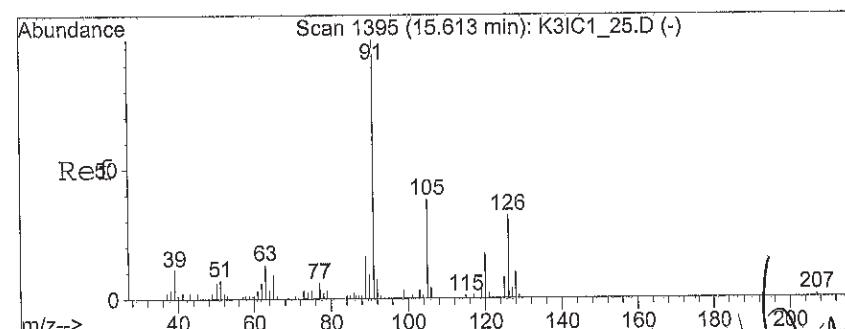
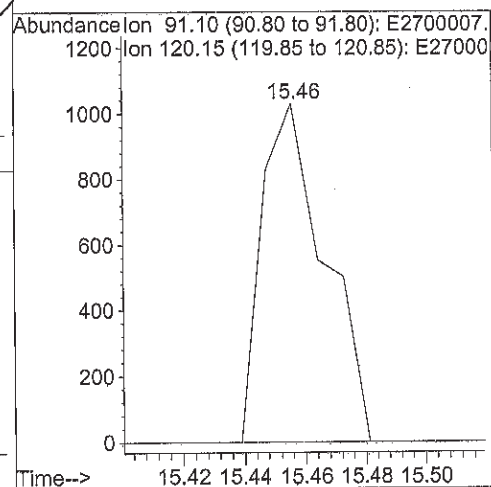
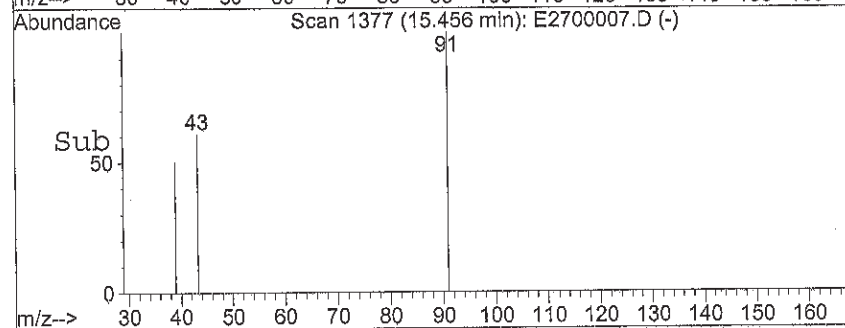
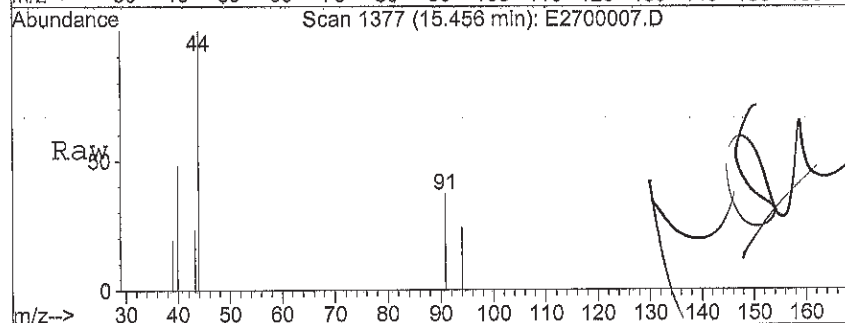
Tgt	Ion:105	Resp:	259
Ion	Ratio	Lower	Upper
105	100		
120	0.0	19.3	28.9#
77	0.0	13.1	19.7#





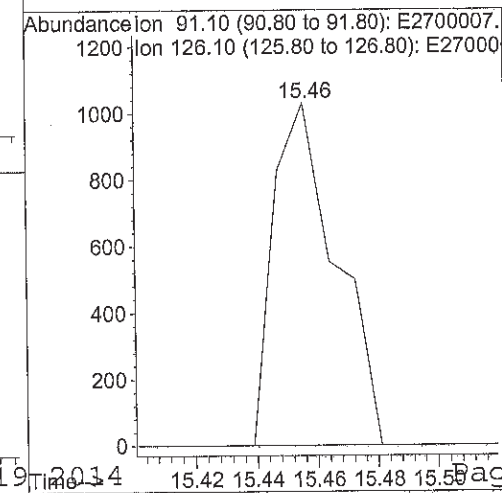
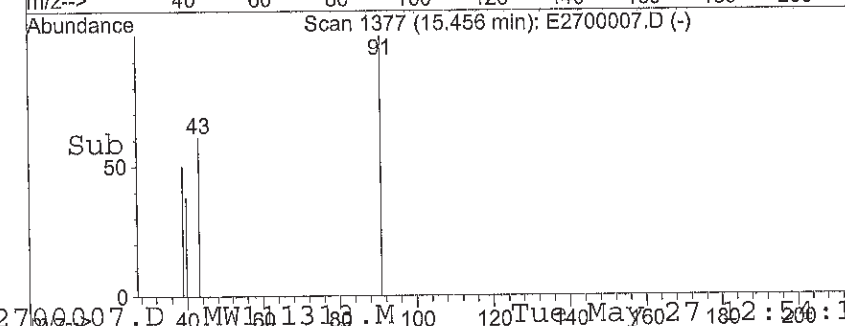
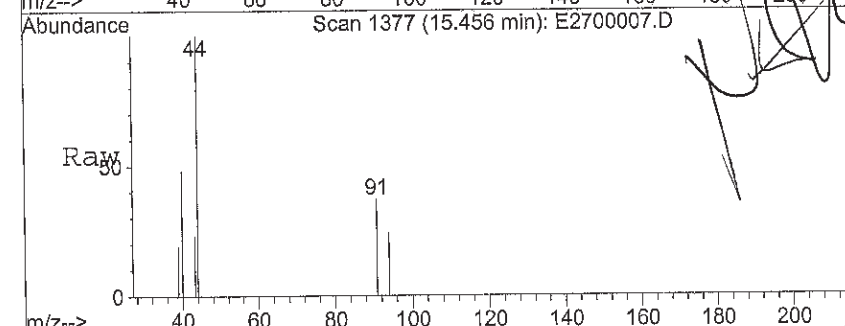
#62
n-Propylbenzene
Concen: 0.05 ug/L
RT: 15.46 min Scan# 1377
Delta R.T. -0.00 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

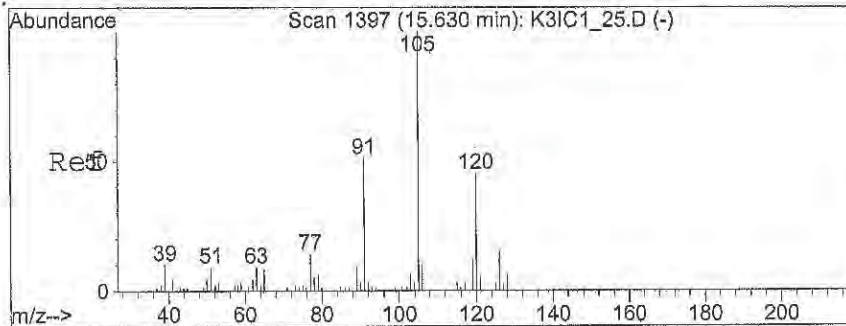
Tgt Ion: 91 Resp: 1476
Ion Ratio Lower Upper
91 100
120 0.0 16.1 24.1#



#63
2-Chlorotoluene
Concen: 0.08 ug/L
RT: 15.46 min Scan# 1377
Delta R.T. -0.16 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

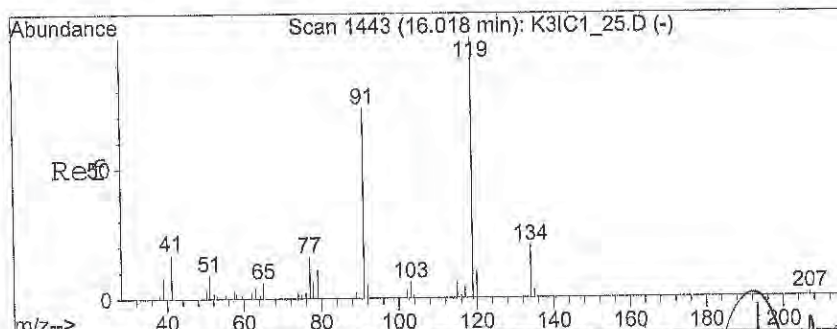
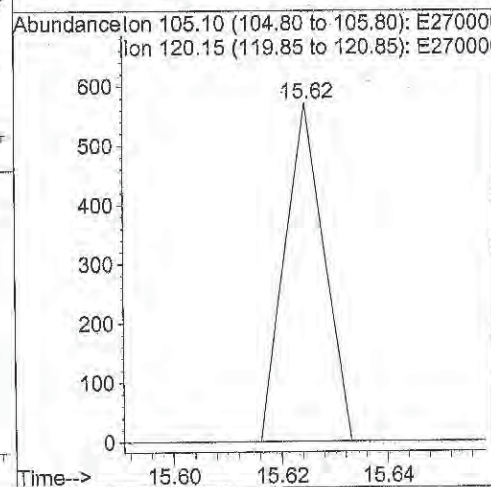
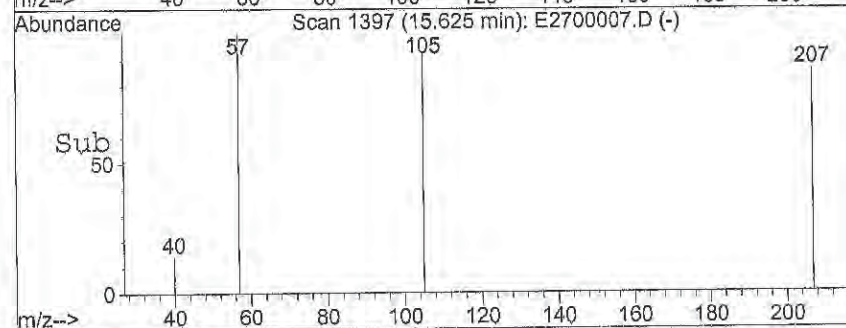
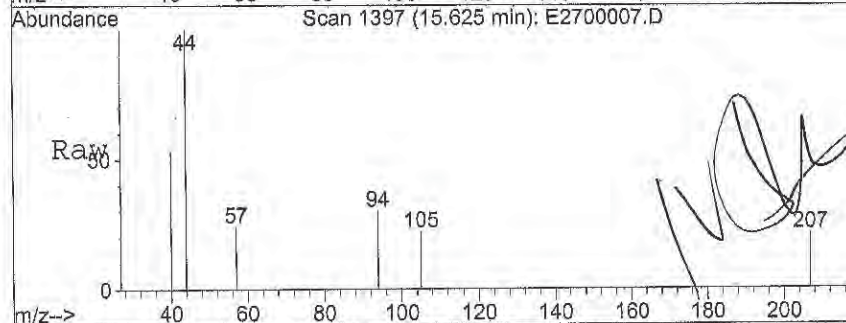
Tgt Ion: 91 Resp: 1476
Ion Ratio Lower Upper
91 100
126 0.0 24.0 36.0#





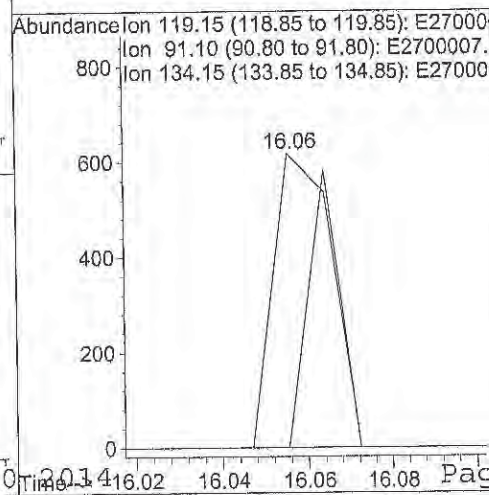
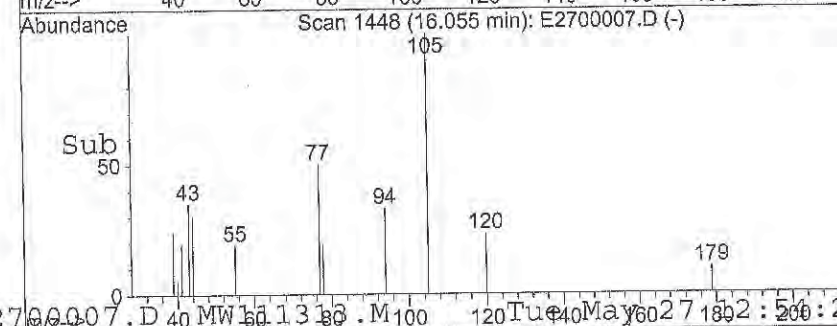
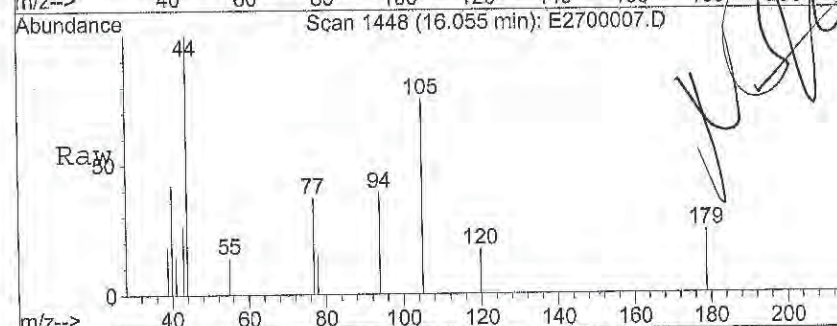
#64
1,3,5-Trimethylbenzene
Concen: 0.02 ug/L
RT: 15.62 min Scan# 1397
Delta R.T. -0.00 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

Tgt Ion: 105 Resp: 289
Ion Ratio Lower Upper
105 100
120 0.0 36.4 54.6#



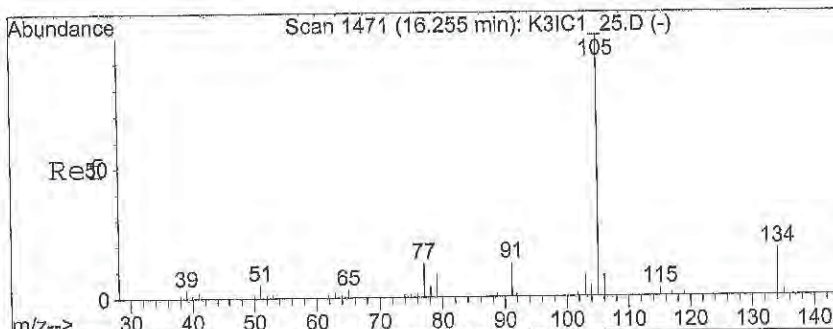
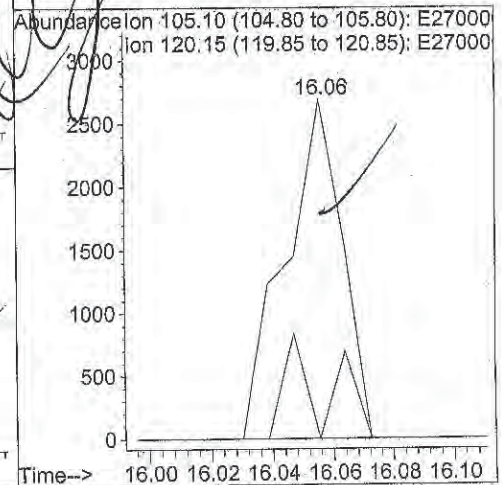
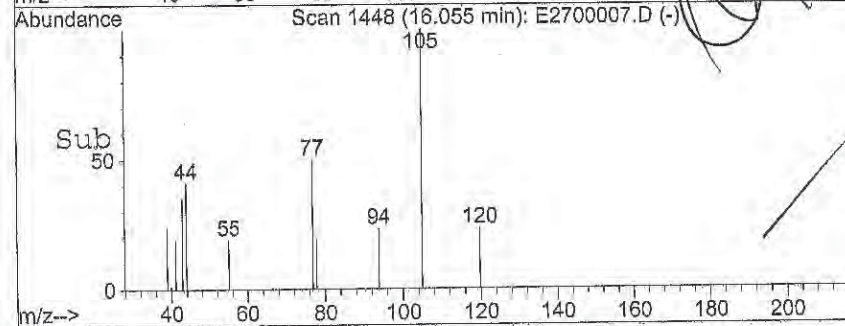
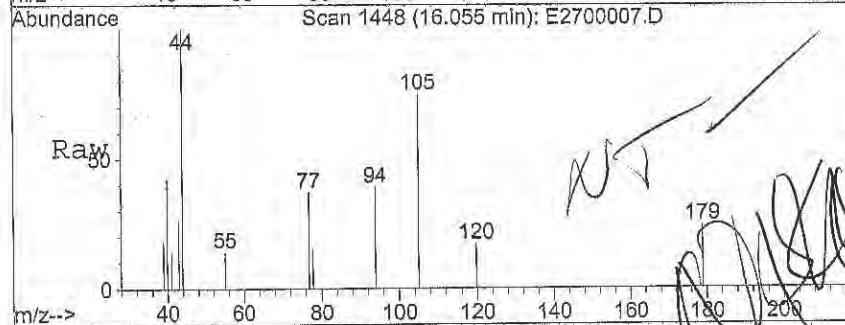
#66
tert-Butylbenzene
Concen: 0.04 ug/L
RT: 16.06 min Scan# 1448
Delta R.T. 0.04 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm

Tgt Ion: 119 Resp: 584
Ion Ratio Lower Upper
119 100
91 50.3 56.3 84.5#
134 0.0 16.1 24.1#



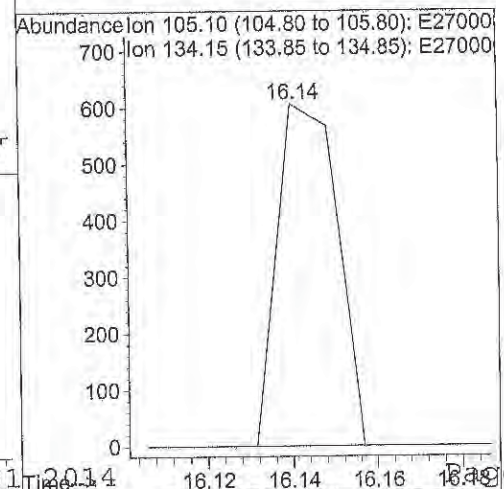
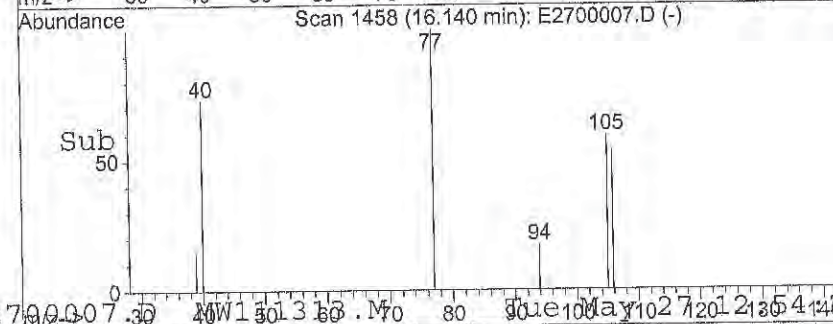
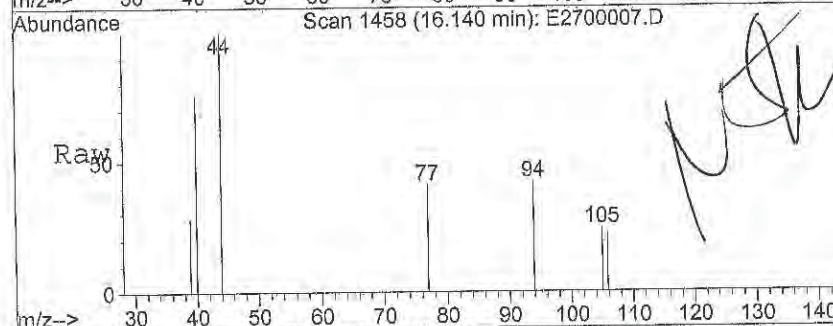

```
#67
1,2,4-Trimethylbenzene
Concen: 0.19 ug/L
RT: 16.06 min Scan# 1448
Delta R.T. -0.00 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33/pm
```

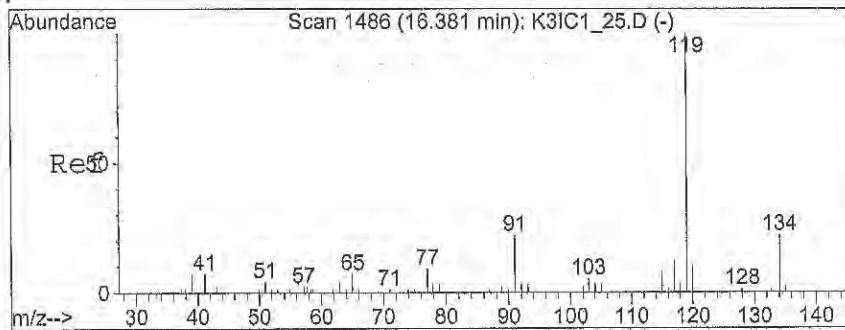
Tgt	Ion:105	Resp:	3490
Ion	Ratio	Lower	Upper
105	100		
120	22.2	33.8	50.8#



```
#68
sec-Butylbenzene
Concen: 0.02 ug/L
RT: 16.14 min Scan# 1458
Delta R.T. -0.11 min
Lab File: E2700007.D
Acq: 27 May 2014 12:33 pm
```

Tgt	Ion:105	Resp:	594
Ion	Ratio	Lower	Upper
105	100		
134	0.0	13.0	19.6#





#69

p-Isopropyltoluene

Concen: 0.05 ug/L

RT: 16.38 min Scan# 1486

Delta R.T. -0.00 min

Lab File: E2700007.D

Acq: 27 May 2014 12:33 pm

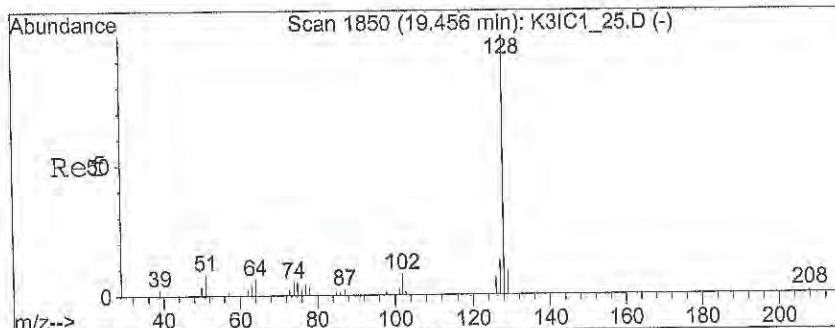
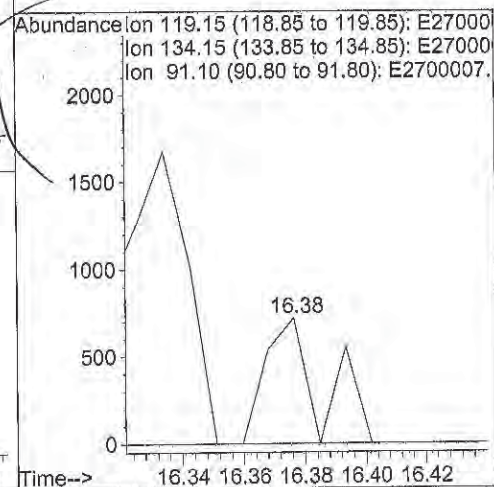
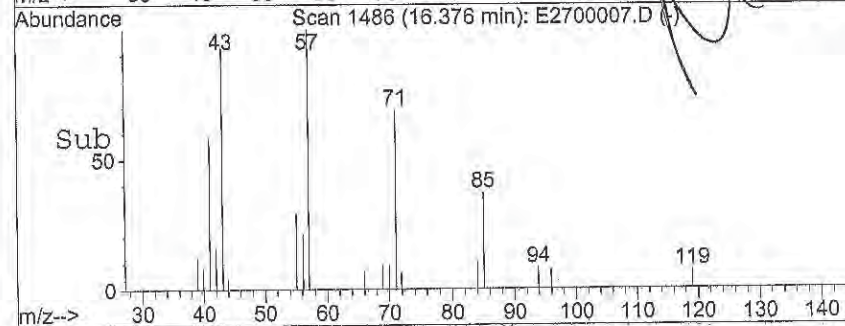
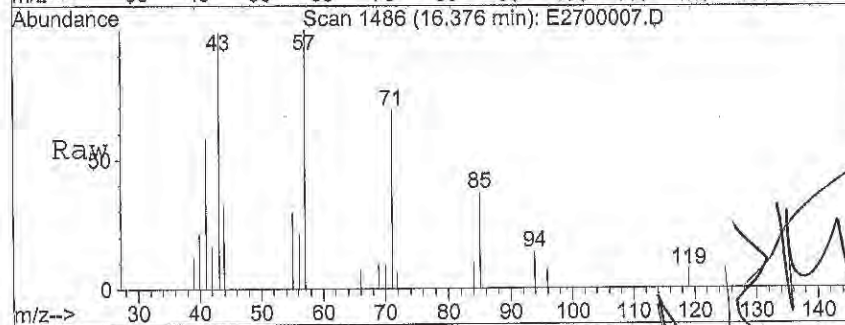
Tgt Ion:119 Resp: 917

Ion Ratio Lower Upper

119 100

134 0.0 17.4 26.2#

91 0.0 19.6 29.4#



#77

Naphthalene

Concen: 0.02 ug/L

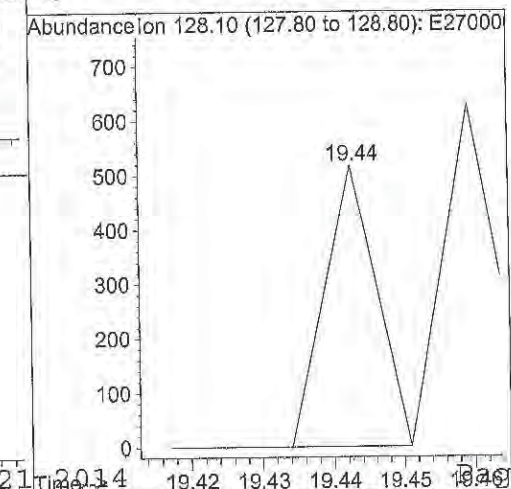
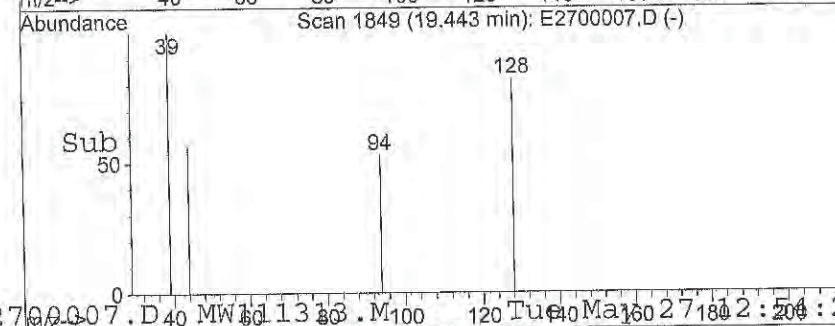
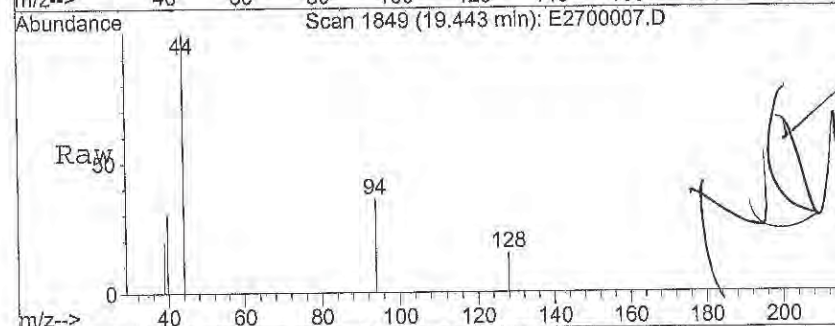
RT: 19.44 min Scan# 1849

Delta R.T. -0.01 min

Lab File: E2700007.D

Acq: 27 May 2014 12:33 pm

Tgt Ion:128 Resp: 262



Data File : C:\HPCHEM\1\DATA\052714L3\E2700007.D

Vial: 6

Acq On : 27 May 2014 12:33 pm

Operator: DN

Sample : 3E42701-06

Inst : GC/MS Ins

Misc : 100cc SVL-513-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 12:55 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1848407	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.91	117	1360103	12.50	ug/L	-0.02
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	711592	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	504526	10.50	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	84.00%
3) Chloroform-d (SU6)	9.18	84	738968	10.71	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	85.68%
4) Methylene Chloride-d2 (SU5)	7.06	86	416474	10.33	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	82.64%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	477785	14.54	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	116.32%
6) Benzene-d6 (SU7)	9.92	84	1461231	10.07	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	80.56%
8) Toluene-d8 (SU3)	12.20	98	1603606	12.43	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	99.44%
9) 4-Bromofluorobenzene (SU4)	15.22	95	738691	13.87	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	110.96%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700007.D SS072713.M

Tue May 27 12:55:48 2014

Page 1

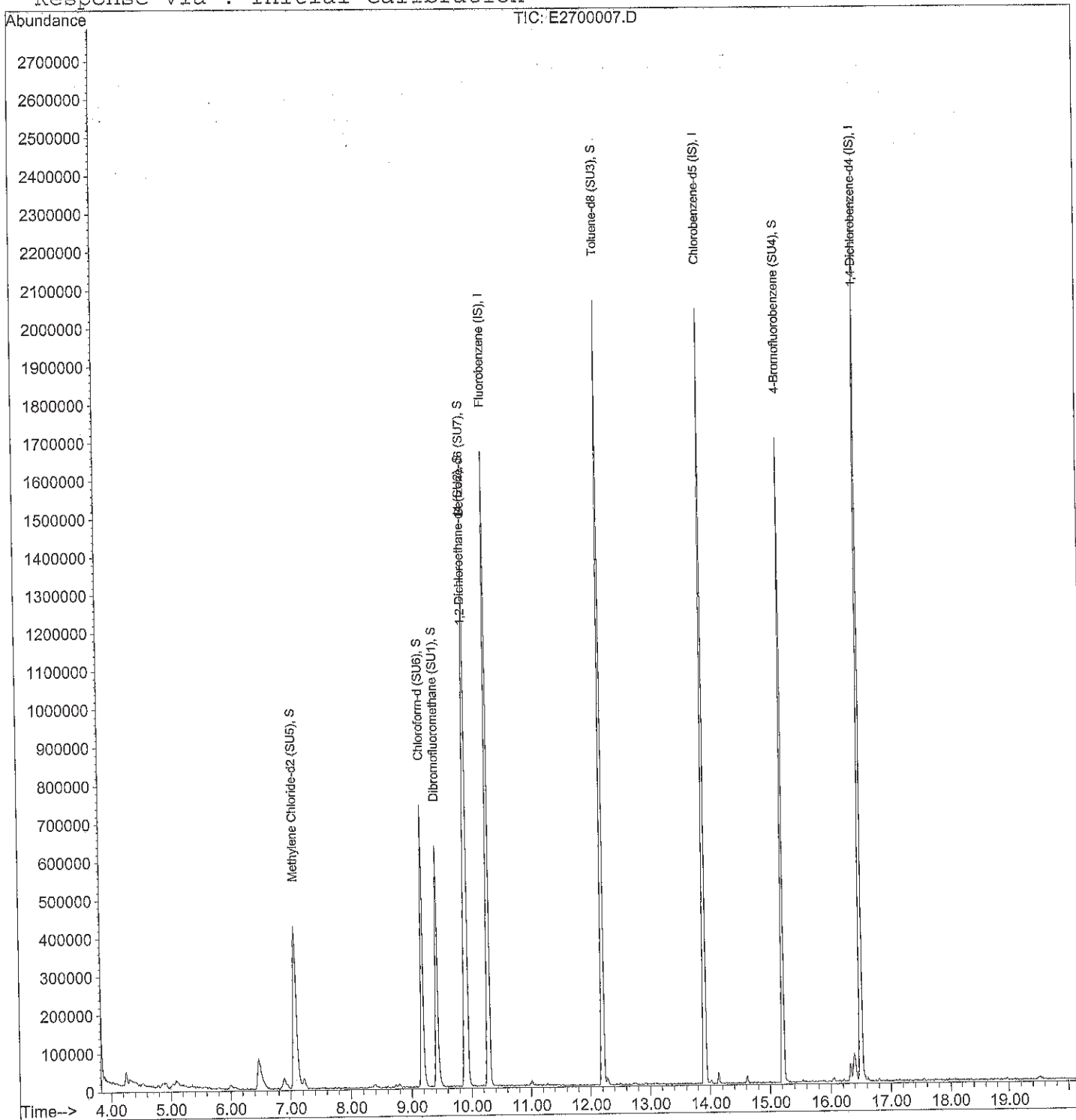
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700007.D
 Acq On : 27 May 2014 12:33 pm
 Sample : 3E42701-06
 Misc : 100cc SVL-513-SA5D-SV-5.0-6.0
 MS Integration Params: rteint.p
 Quant Time: May 27 12:55 19114

Vial: 6
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E2700008.D

Vial: 7

Acq On : 27 May 2014 1:02 pm

Operator: DN

Sample : 3E42701-07

Inst : GC/MS Ins

Misc : 100cc SVL-513-SA5D-SV-10.0-11.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 13:40 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

ReRun 20X

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1858802	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1370885	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	727236	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	524212	11.31	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	90.48%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	489084	11.10	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	88.80%
39) Toluene-d8 (SU3)	12.20	98	1607666	12.57	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	100.56%
58) 4-Bromofluorobenzene (SU4)	15.22	95	755661	13.48	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	107.84%

Target Compounds

					Qvalue	
3) (F12) Dichlorodifluorometh	4.10	85	1038	0.23	ug/L	# 44
4) Chloromethane	4.39	50	8274	1.43	ug/L	91
6) Bromomethane	5.29	96	729	-1.42	ug/L	79
7) Chloroethane	5.25	64	3186	2.75	ug/L	# 49
9) (F113) 1,1,2-Trichloro-tri	6.36	151	12106953	3313.18	ug/L	96
10) 1,1-Dichloroethene	6.35	96	42895	9.78	ug/L	# 48
11) Acetone	6.46	58	16563	20.38	ug/L	97
12) (IPA) Leak Check Compound	6.48	45	174260	780.17	ug/L	# 87
13) Carbon disulfide	6.85	76	19800	1.28	ug/L	# 89
14) Methylene Chloride	7.08	84	7382	1.45	ug/L	# 1
15) (TBA) tert-Butanol	6.89	59	4760	15.01	ug/L	# 77
20) 2,2-Dichloropropane	8.90	77	271	0.04	ug/L	# 36
24) Chloroform	9.21	83	2987	0.31	ug/L	99
25) (ETBE) 2-ethoxy 2-methyl p	8.49	59	522	0.04	ug/L	# 34
31) Benzene	9.96	78	5414	0.31	ug/L	# 60
32) 1,2-Dichloroethane	9.92	62	7087	1.15	ug/L	# 1
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	7779	2.84	ug/L	# 100
41) Toluene	12.29	91	34735	1.86	ug/L	97
42) trans-1,3-Dichloropropene	12.50	75	334	0.05	ug/L	# 30
45) 1,3-Dichloropropane	12.76	76	290	0.05	ug/L	# 41
46) 2-Hexanone	12.92	43	1032	0.34	ug/L	# 37
51) Ethylbenzene	14.02	91	8229	0.39	ug/L	# 89

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E2700008.D

Vial: 7

Acq On : 27 May 2014 1:02 pm

Operator: DN

Sample : 3E42701-07

Inst : GC/MS Ins

Misc : 100cc SVL-513-SA5D-SV-10.0-11.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 13:40 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) m,p-Xylenes	14.14	106	6808	0.90	ug/L	91
53) o-Xylene	14.61	106	2041	0.27	ug/L #	6
54) Styrene	14.62	104	2931	-0.60	ug/L	92
56) Isopropylbenzene	14.99	105	920	0.04	ug/L #	55
57) 1,2,3-Trichloropropane	15.34	75	283	0.05	ug/L #	36
62) n-Propylbenzene	15.46	91	1561	0.05	ug/L #	56
63) 2-Chlorotoluene	15.52	91	342	0.02	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.53	105	3538	0.20	ug/L #	31
65) 4-Chlorotoluene	15.52	91	342	0.02	ug/L #	44
67) 1,2,4-Trimethylbenzene	16.05	105	1998	0.11	ug/L #	33
68) sec-Butylbenzene	16.33	105	985	0.04	ug/L #	62
69) p-Isopropyltoluene	16.38	119	693	0.03	ug/L #	52
70) 1,3-Dichlorobenzene	16.54	146	298	0.03	ug/L #	1
71) 1,4-Dichlorobenzene	16.54	146	298	0.03	ug/L #	1

(#) = qualifier out of range (m) = manual integration

E2700008.D MW111313.M

Tue May 27 13:40:24 2014

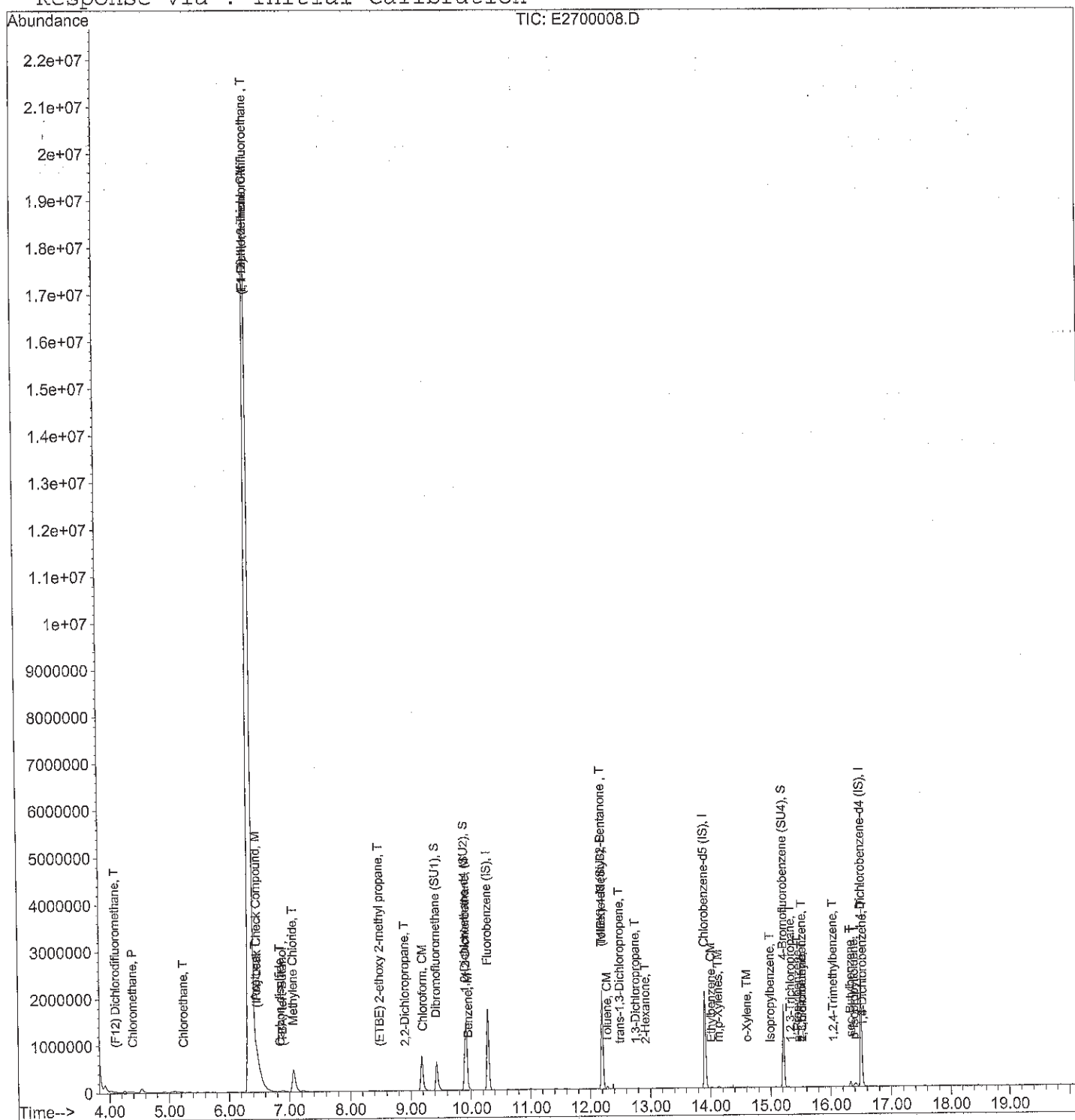
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700008.D
Acq On : 27 May 2014 1:02 pm
Sample : 3E42701-07
Misc : 100cc SVL-513-SA5D-SV-10.0-11.0
MS Integration Params: rteint.p
Quant Time: May 27 13:40 19114 Quan

Vial: 7
Operator: DN
Inst: GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

```
Method       : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title        : 8260B      GC/MS #3      ICAL 11/13/13   DN
Last Update   : Wed Nov 13 19:38:32 2013
Response via  : Initial Calibration
```



Data File : C:\HPCHEM\1\DATA\052714L3\E2700009.D Vial: 8
 Acq On : 27 May 2014 1:31 pm Operator: DN
 Sample : 3E42701-07 Inst : GC/MS Ins
 Misc : 5cc SVL-513-SA5D-SV-10.0-11.0 20X DIL Multiplr: 10.00
 MS Integration Params: rteint.p
 Quant Time: May 27 13:52 19114 Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1755921	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1286154	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	676173	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	486155	11.10	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	88.80%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	445620	10.71	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	85.68%
39) Toluene-d8 (SU3)	12.20	98	1524962	12.71	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	101.68%
58) 4-Bromofluorobenzene (SU4)	15.22	95	693285	13.18	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	105.44%

Target Compounds

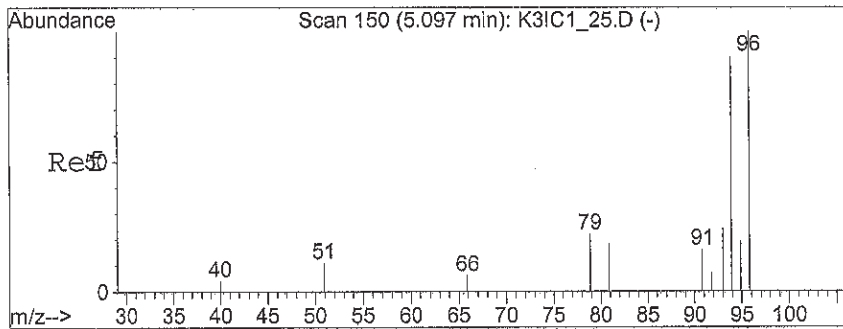
	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	4.39	50	2907	-0.23	ug/L	#41
6) Bromomethane	5.10	96	7029	1.86	ug/L	#55
7) Chloroethane	5.22	64	743	1.20	ug/L	#86
9) (F113) 1,1,2-Trichloro-tri	6.35	151	740254	214.45	ug/L	4.289 97 X26
10) 1,1-Dichloroethene	6.35	96	1007	0.24	ug/L	#37
11) Acetone	6.47	58	11885	13.48	ug/L	#94
12) (IPA) Leak Check Compound	6.46	45	142971	677.59	ug/L	#86
14) Methylene Chloride	7.08	84	6514	1.35	ug/L	#1
15) (TBA) tert-Butanol	6.89	59	2881	9.62	ug/L	#77
16) (MTBE) Methyl-t-butyl ethe	7.41	73	346	0.03	ug/L	#155
21) (MEK) 2-Butanone	8.81	72	268	0.54	ug/L	#1
24) Chloroform	9.20	83	3122	0.34	ug/L	#18
25) (ETBE) 2-ethoxy 2-methyl p	8.32	59	379	0.03	ug/L	#44
29) 1,1-Dichloropropene	9.93	75	684	0.10	ug/L	#1
31) Benzene	9.98	78	422	0.03	ug/L	#57
32) 1,2-Dichloroethane	9.92	62	6975	1.19	ug/L	#1
40) (MIBK) 4-Methyl-2-Pentanone	12.09	43	275	0.11	ug/L	#100
41) Toluene	12.28	91	3933	0.22	ug/L	#0.004 73
44) Tetrachloroethene	12.95	164	1538	0.29	ug/L	#0.005 85
46) 2-Hexanone	12.97	43	294	0.10	ug/L	#37
51) Ethylbenzene	14.02	91	1666	0.08	ug/L	#45
52) m,p-Xylenes	14.14	106	1022	0.14	ug/L	#0.002 36

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E2700009.D Vial: 8
Acq On : 27 May 2014 1:31 pm Operator: DN
Sample : 3E42701-07 Inst : GC/MS Ins
Misc : 5cc SVL-513-SA5D-SV-10.0-11.0 20X DIL Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: May 27 13:52 19114 Quant Results File: MW111313.RES

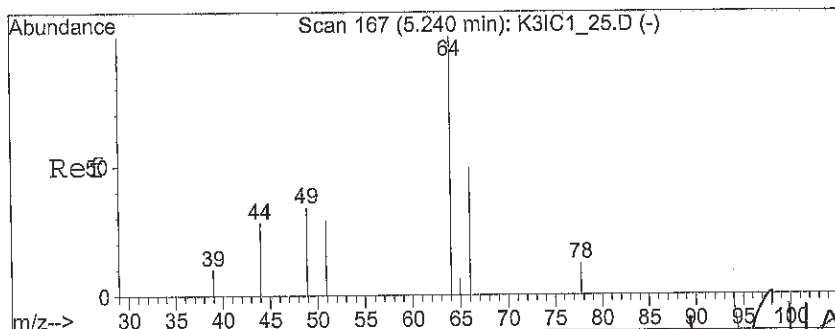
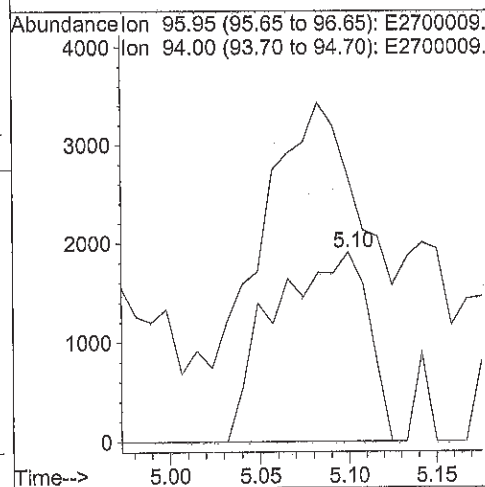
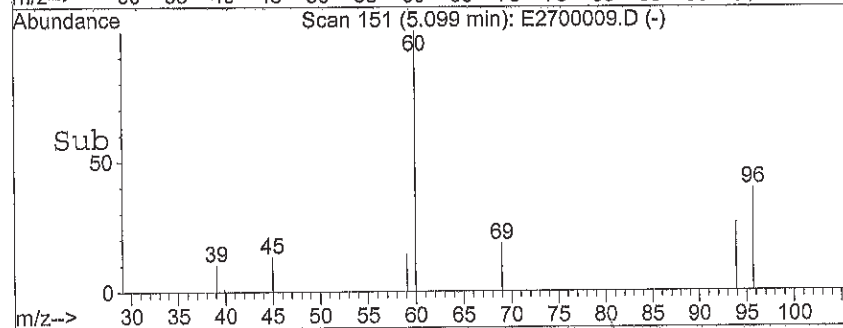
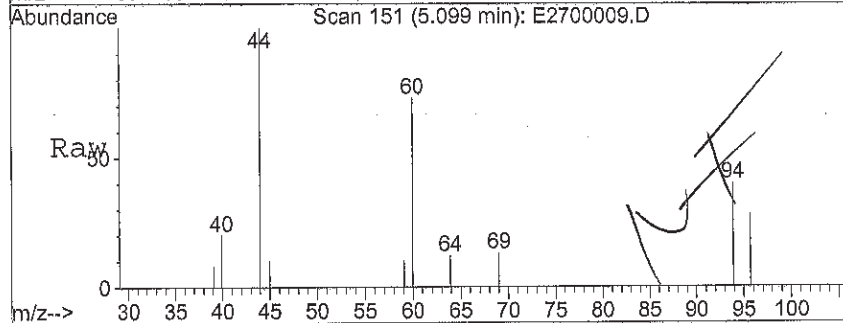
Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53) o-Xylene	14.62	106	383	0.05	ug/L #	0.001
54) Styrene	14.63	104	1413	-0.74	ug/L #	59
56) Isopropylbenzene	15.22	105	1782	0.09	ug/L #	1
62) n-Propylbenzene	15.22	91	2267	0.08	ug/L #	56
67) 1,2,4-Trimethylbenzene	16.05	105	994	0.06	ug/L #	33
68) sec-Butylbenzene	16.05	105	994	0.04	ug/L #	62
69) p-Isopropyltoluene	16.38	119	316	0.02	ug/L #	52



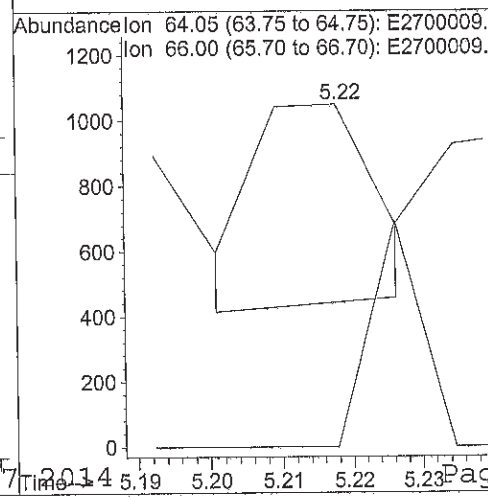
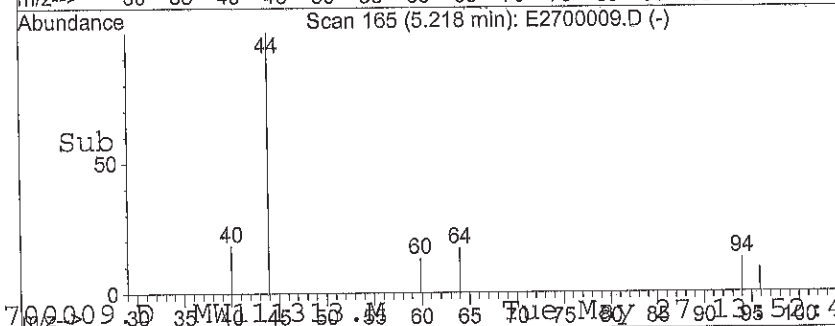
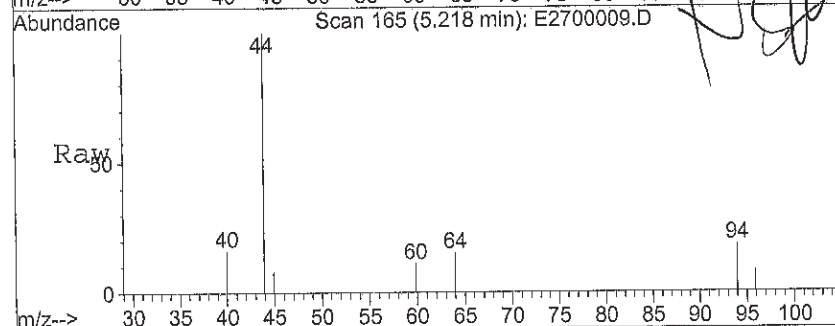
#6
Bromomethane
Concen: 1.86 ug/L
RT: 5.10 min Scan# 151
Delta R.T. 0.00 min
Lab File: E2700009.D
Acq: 27 May 2014 1:31 pm

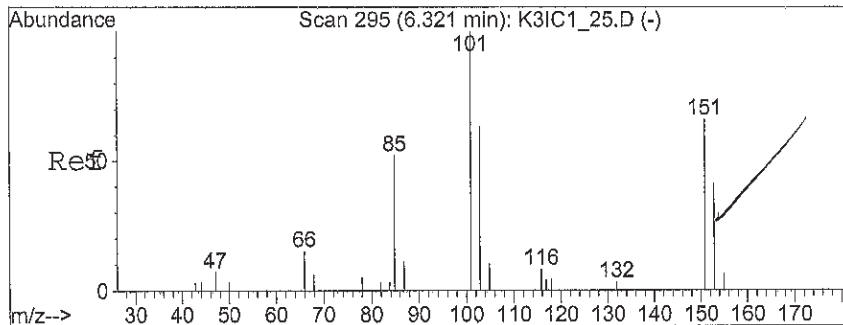
Tgt Ion: 96 Resp: 7029
Ion Ratio Lower Upper
96 100
94 177.6 101.0 151.4#



#7
Chloroethane
Concen: 1.20 ug/L
RT: 5.22 min Scan# 165
Delta R.T. -0.02 min
Lab File: E2700009.D
Acq: 27 May 2014 1:31 pm

Tgt Ion: 64 Resp: 743
Ion Ratio Lower Upper
64 100
66 47.1 35.4 53.0





#9

(F113) 1,1,2-Trichloro-trifluor

Concen: 214.45 ug/L

RT: 6.35 min Scan# 299

Delta R.T. 0.03 min

Lab File: E2700009.D

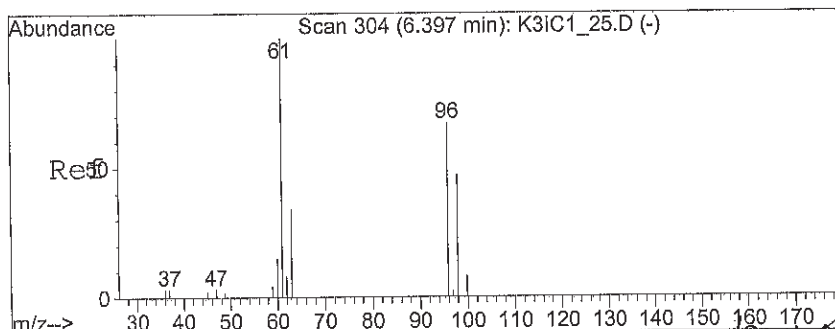
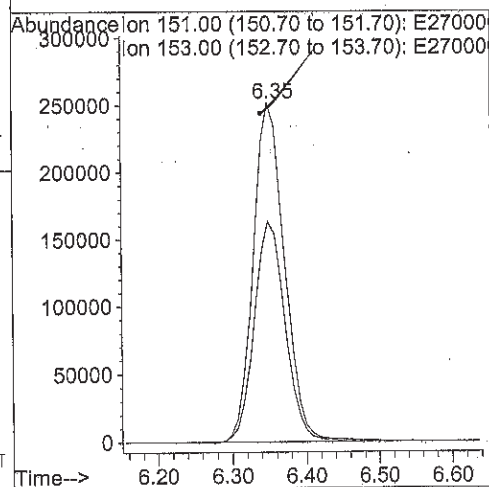
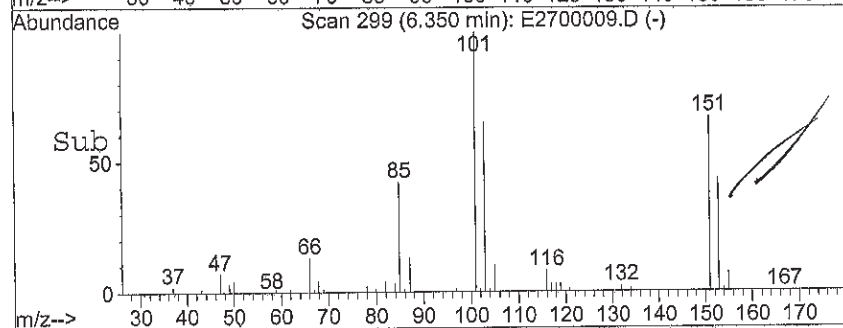
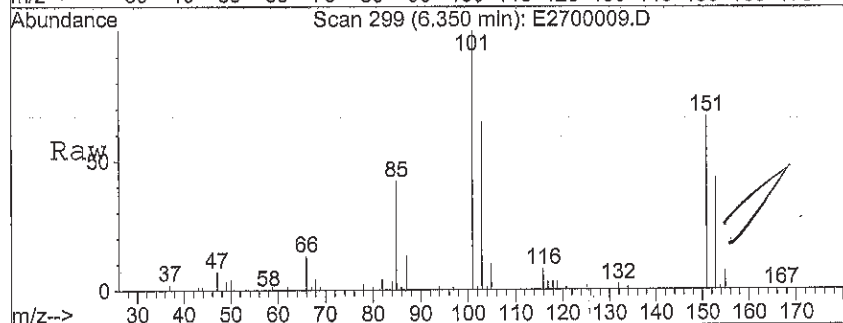
Acq: 27 May 2014 1:31 pm

Tgt Ion: 151 Resp: 740254

Ion Ratio Lower Upper

151 100

153 64.2 49.6 74.4



#10

1,1-Dichloroethene

Concen: 0.24 ug/L

RT: 6.35 min Scan# 299

Delta R.T. 0.05 min

Lab File: E2700009.D

Acq: 27 May 2014 1:31 pm

Tgt Ion: 96 Resp: 1007

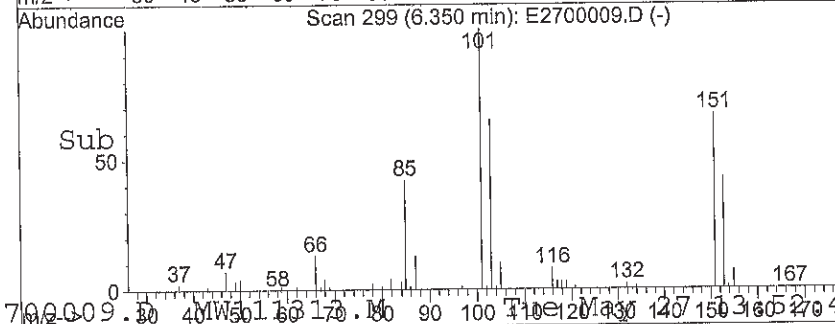
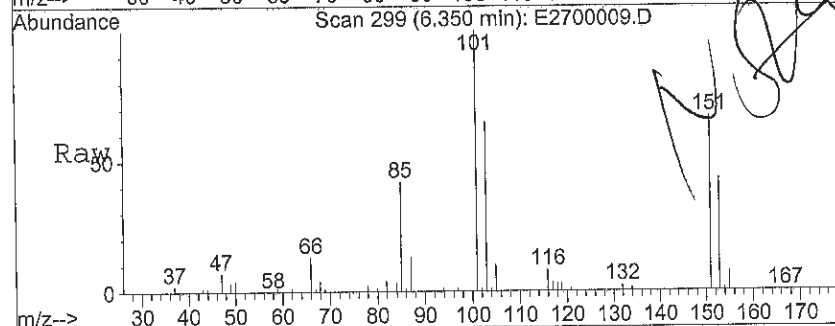
Ion Ratio Lower Upper

96 100

61 96.0 130.0 195.0#

98 0.0 56.2 84.4#

63 0.0 41.5 62.3#



Abundance

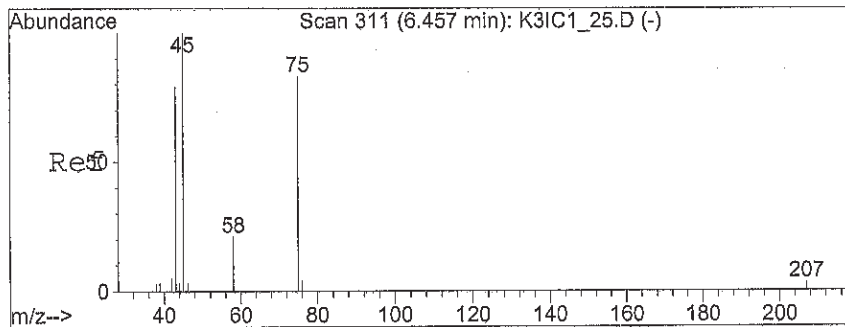
Ion 95.95 (95.65 to 96.65): E2700009.

Ion 61.05 (60.75 to 61.75): E2700009.

Ion 97.95 (97.65 to 98.65): E2700009.

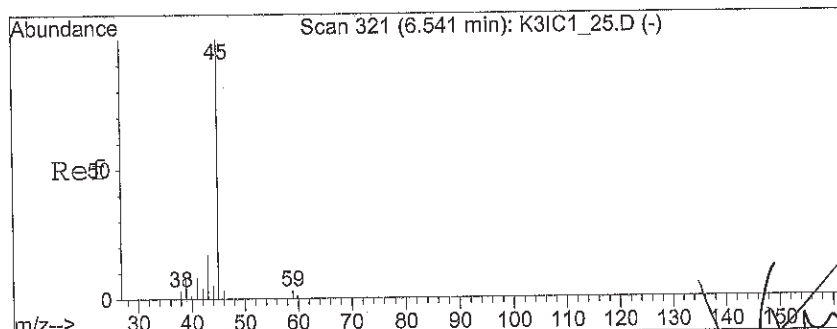
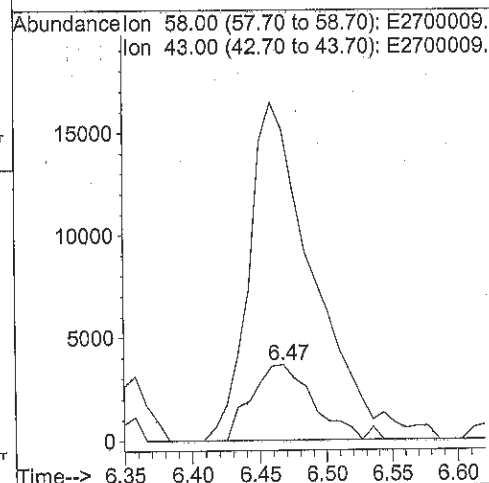
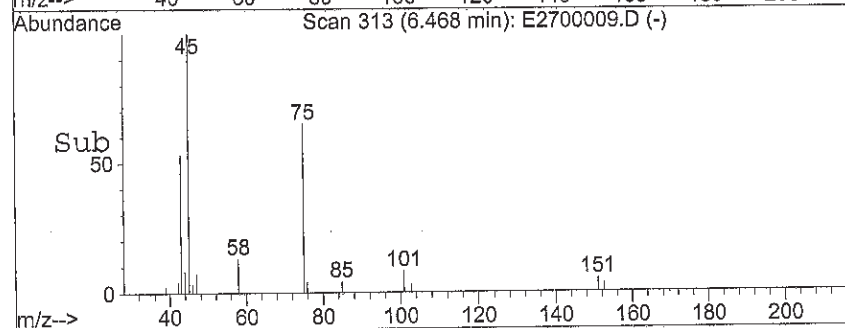
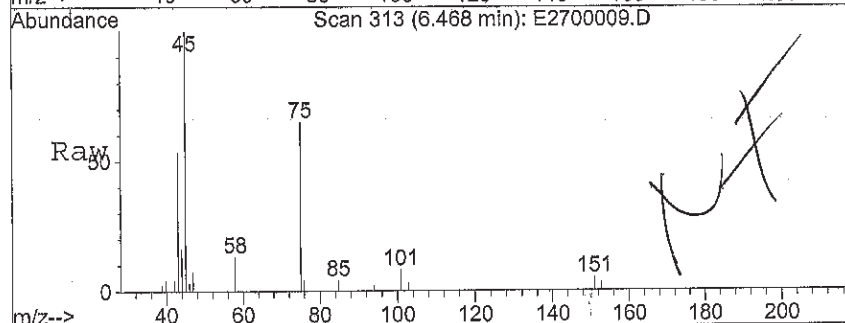
Ion 63.05 (62.75 to 63.75): E2700009.

Time-->



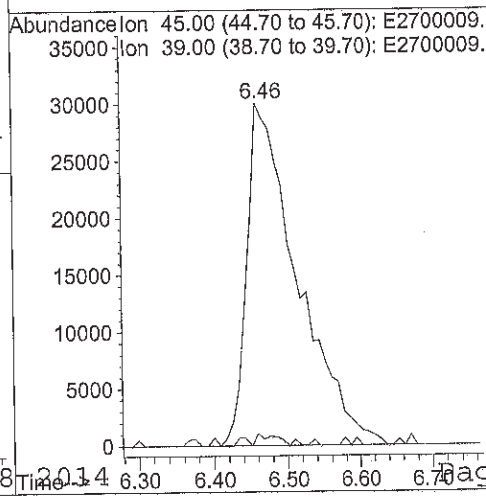
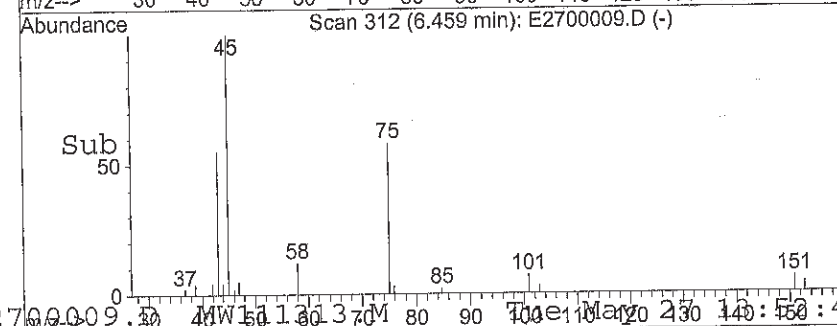
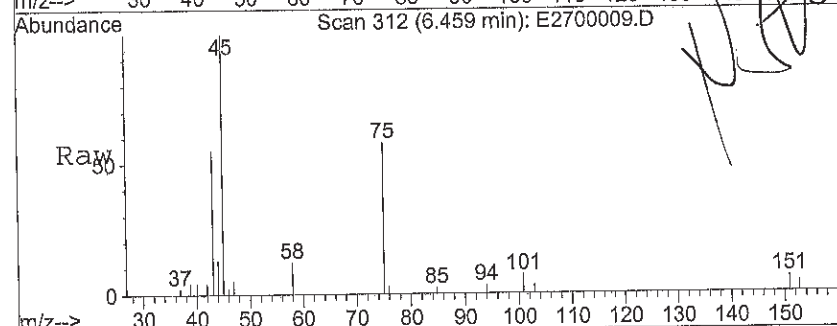
#11
 Acetone
 Concen: 13.48 ug/L
 RT: 6.47 min Scan# 313
 Delta R.T. 0.01 min
 Lab File: E2700009.D
 Acq: 27 May 2014 1:31 pm

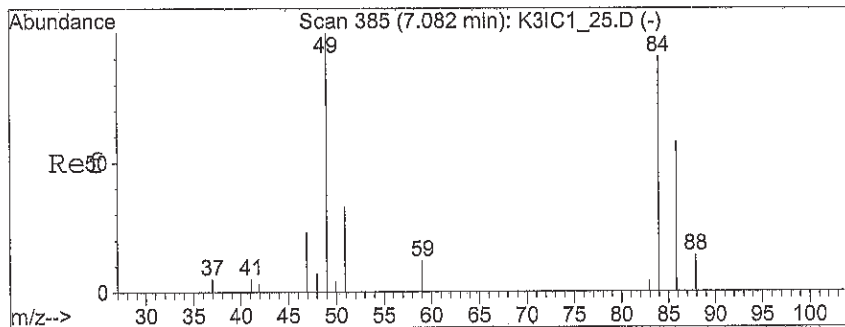
Tgt Ion: 58 Resp: 11885
 Ion Ratio Lower Upper
 58 100
 43 466.2 360.9 541.3



#12
 (IPA) Leak Check Compound
 Concen: 677.59 ug/L
 RT: 6.46 min Scan# 312
 Delta R.T. -0.08 min
 Lab File: E2700009.D
 Acq: 27 May 2014 1:31 pm

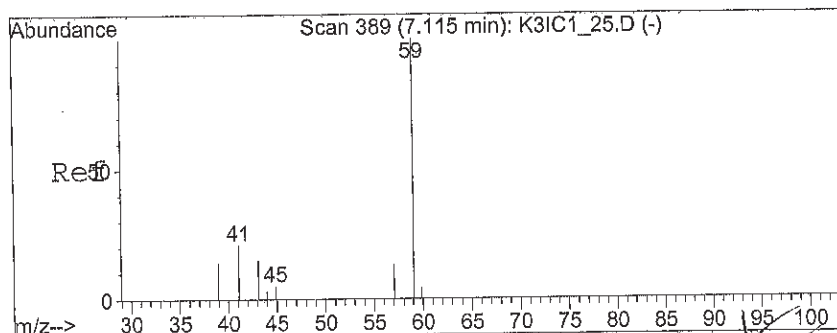
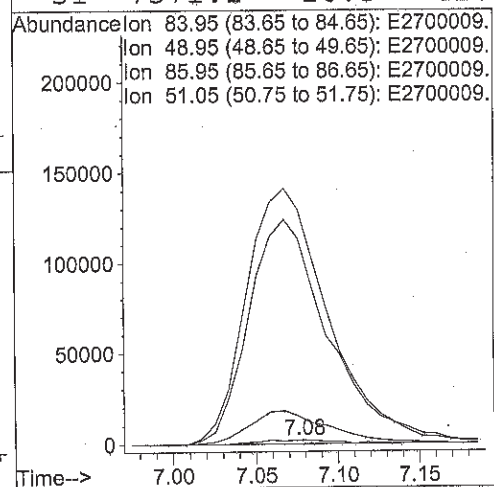
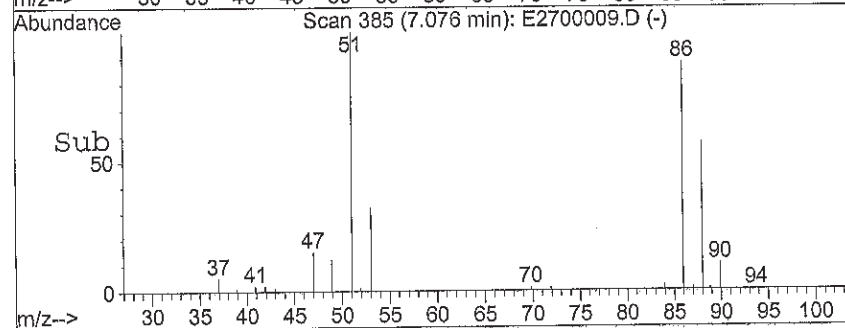
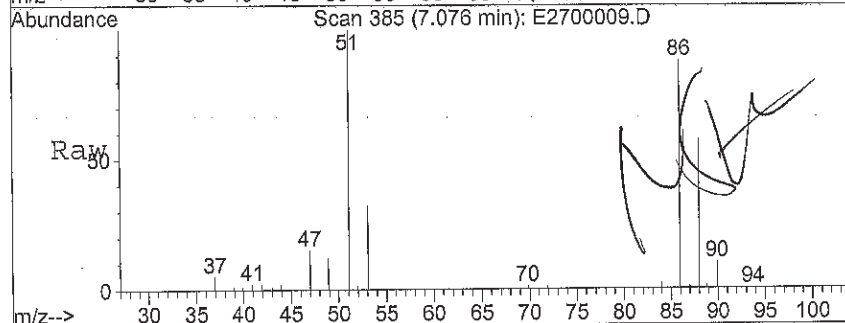
Tgt Ion: 45 Resp: 142971
 Ion Ratio Lower Upper
 45 100
 39 1.5 4.9 7.3#





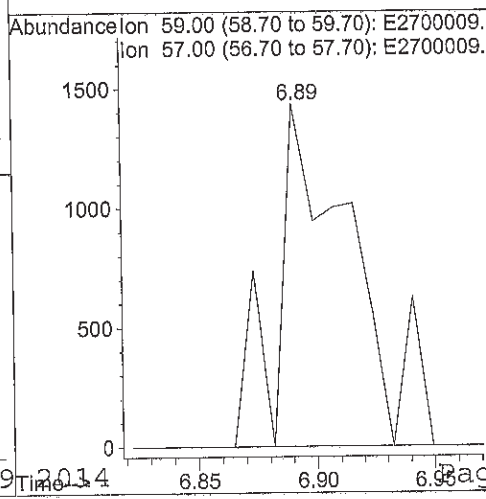
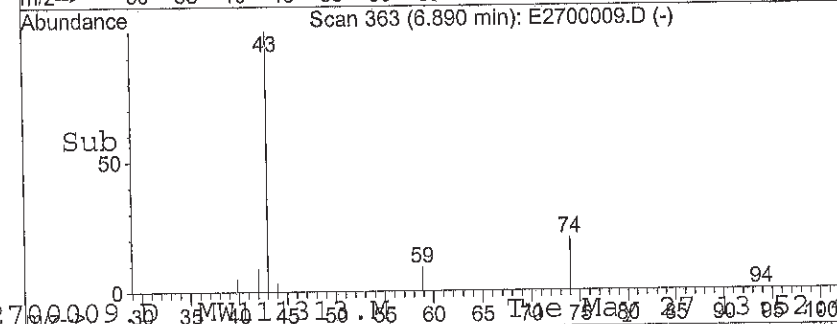
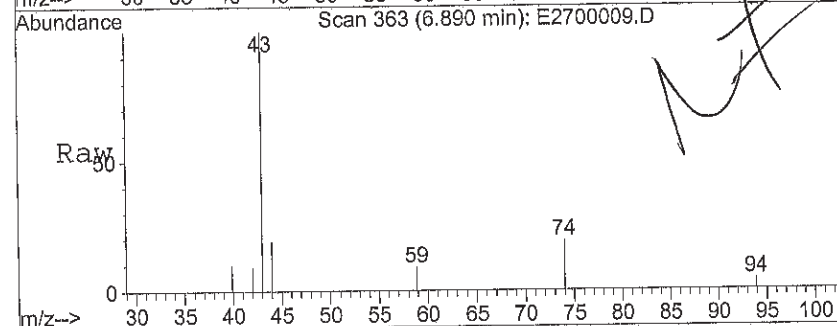
#14
Methylene Chloride
Concen: 1.35 ug/L
RT: 7.08 min Scan# 385
Delta R.T. -0.01 min
Lab File: E2700009.D
Acq: 27 May 2014 1:31 pm

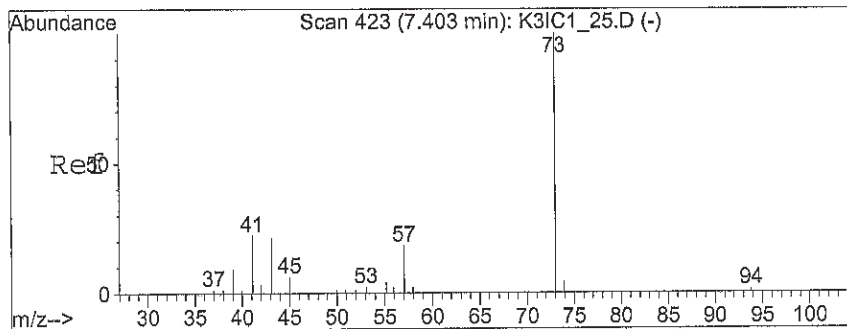
Tgt Ion: 84 Resp: 6514
Ion Ratio Lower Upper
84 100
49 927.9 89.8 134.6#
86 6419.1 51.1 76.7#
51 7571.1 28.5 42.7#



#15
(TBA) tert-Butanol
Concen: 9.62 ug/L
RT: 6.89 min Scan# 363
Delta R.T. -0.23 min
Lab File: E2700009.D
Acq: 27 May 2014 1:31 pm

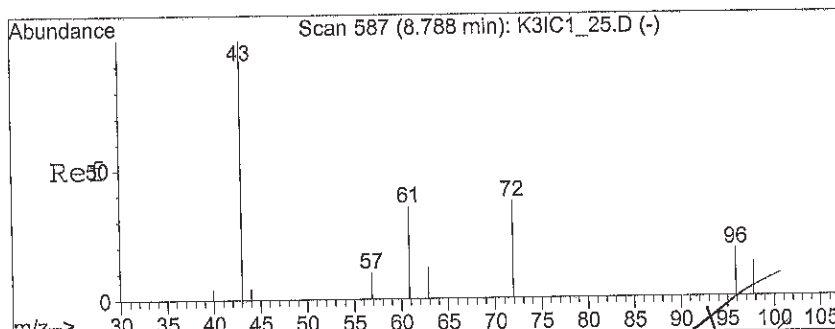
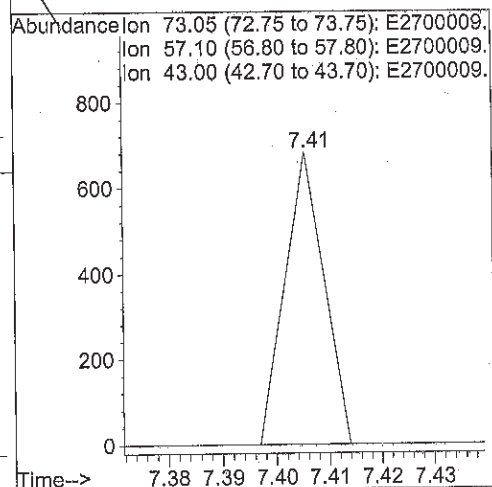
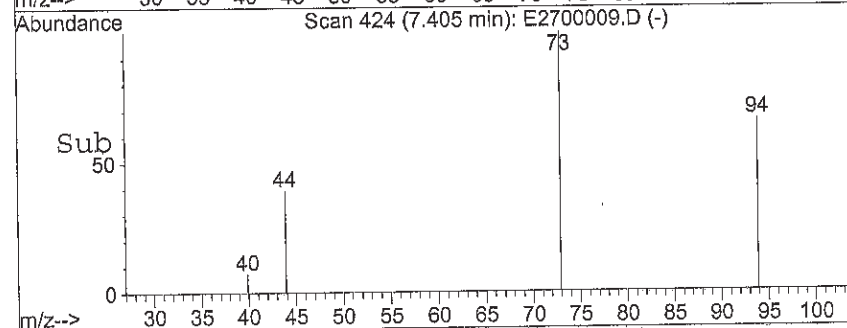
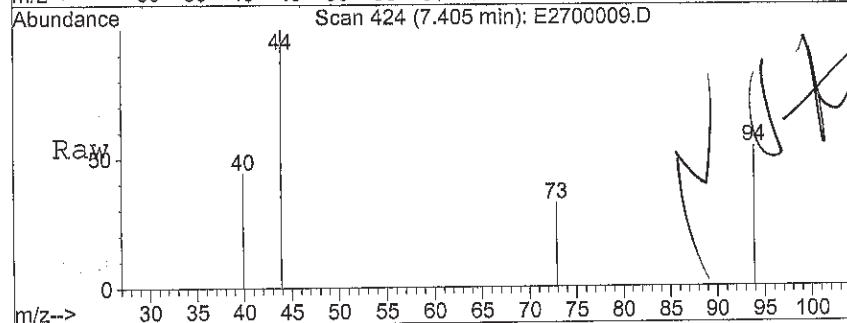
Tgt Ion: 59 Resp: 2881
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#





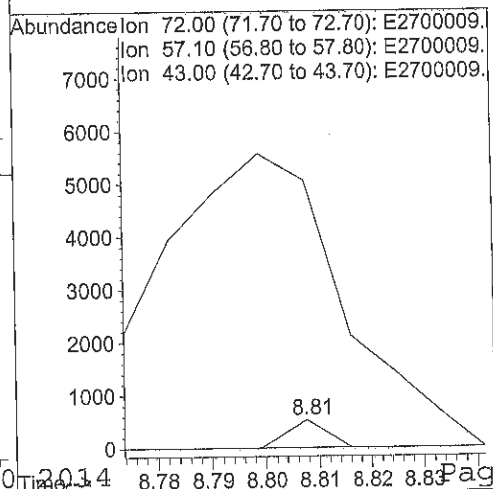
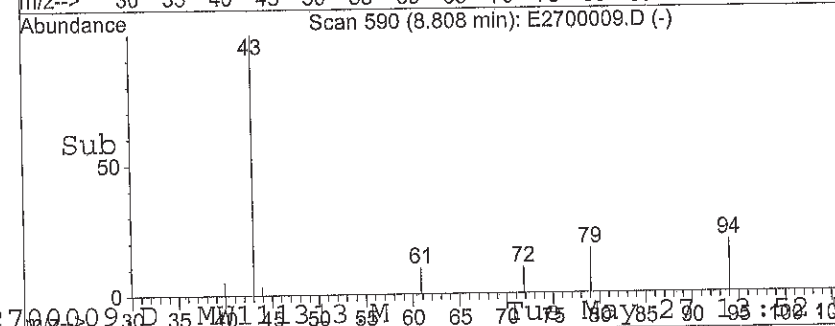
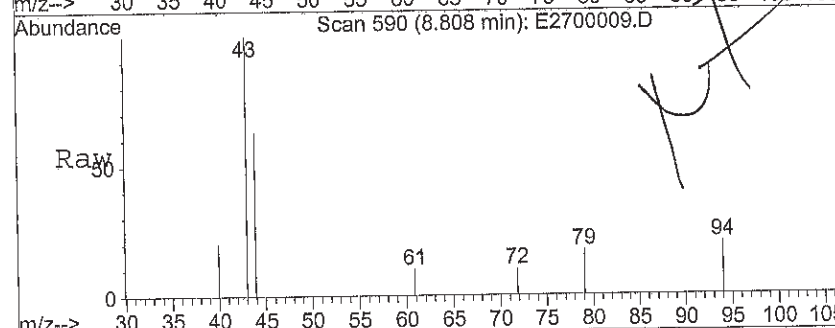
#16
 (MTBE) Methyl-t-butyl ether
 Concen: 0.03 ug/L
 RT: 7.41 min Scan# 424
 Delta R.T. 0.00 min
 Lab File: E2700009.D
 Acq: 27 May 2014 1:31 pm

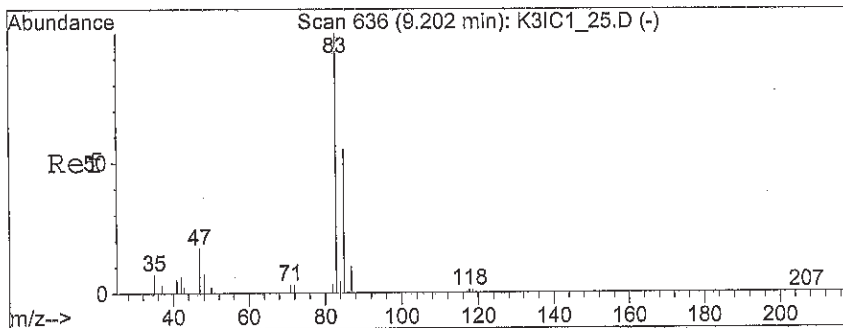
Tgt Ion: 73 Resp: 346
 Ion Ratio Lower Upper
 73 100
 57 0.0 15.8 23.8#
 43 0.0 18.4 27.6#



#21
 (MEK) 2-Butanone
 Concen: 0.54 ug/L
 RT: 8.81 min Scan# 590
 Delta R.T. 0.02 min
 Lab File: E2700009.D
 Acq: 27 May 2014 1:31 pm

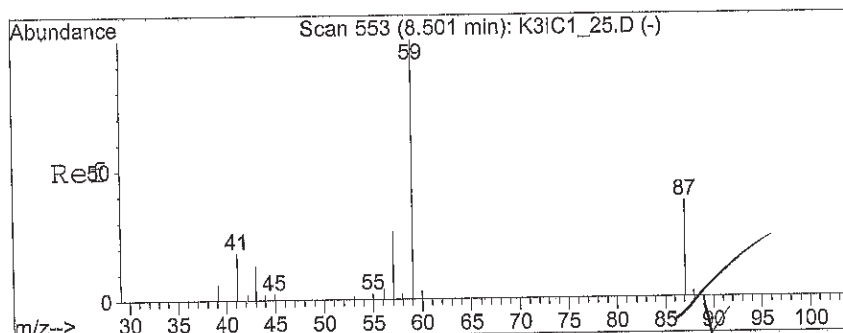
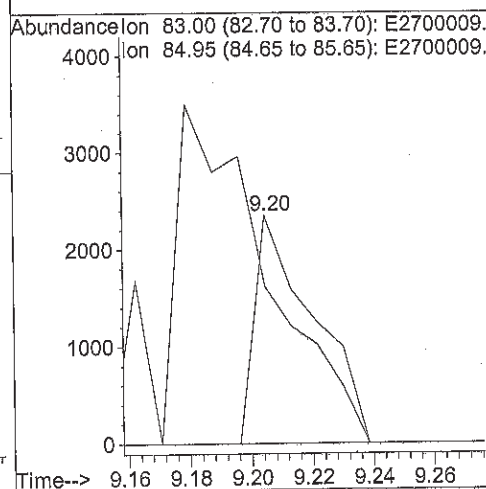
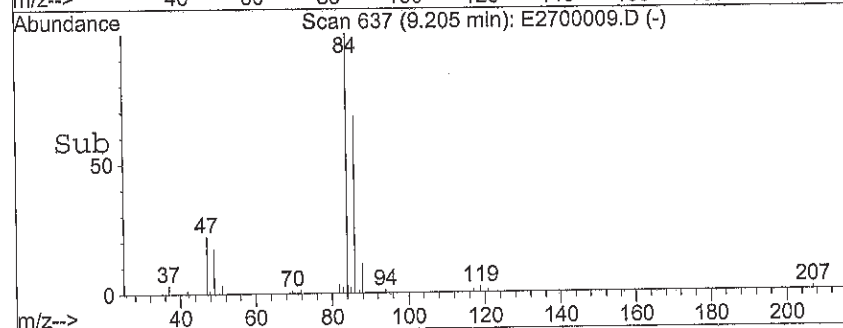
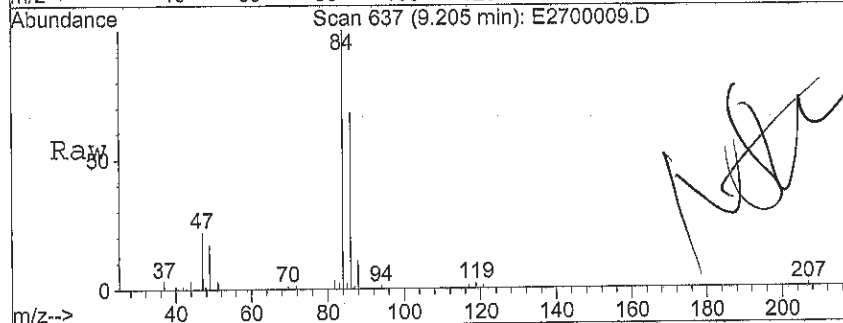
Tgt Ion: 72 Resp: 268
 Ion Ratio Lower Upper
 72 100
 57 0.0 17.5 26.3#
 43 5032.1 314.2 471.2#





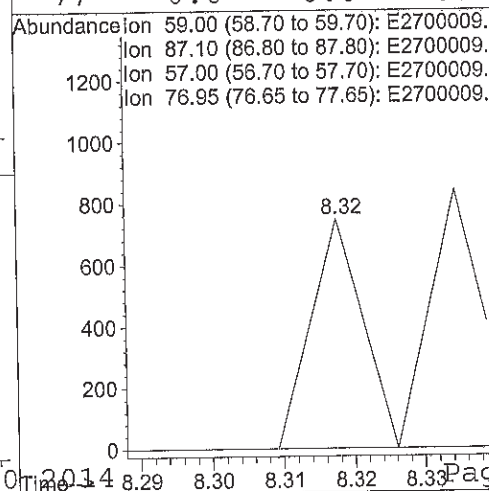
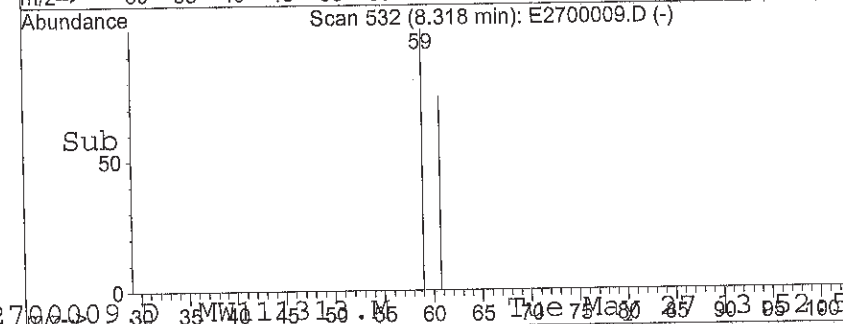
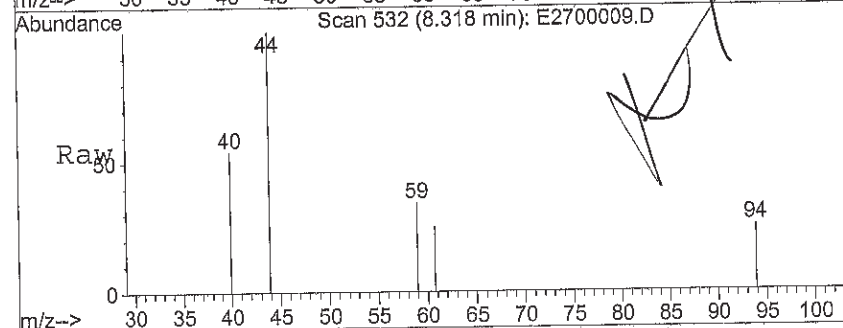
#24
Chloroform
Concen: 0.34 ug/L
RT: 9.20 min Scan# 637
Delta R.T. 0.00 min
Lab File: E2700009.D
Acq: 27 May 2014 1:31 pm

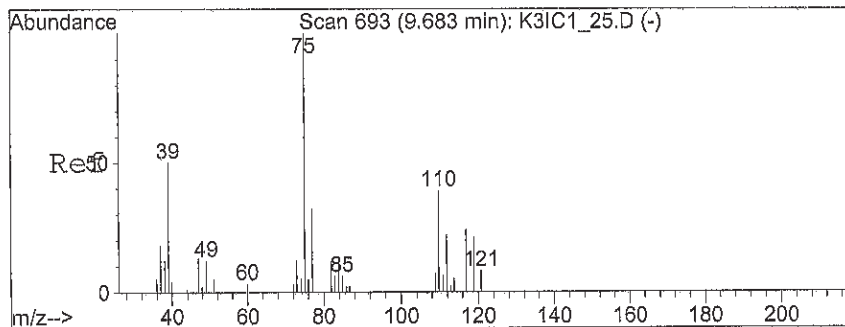
Tgt Ion: 83 Resp: 3122
Ion Ratio Lower Upper
83 100
85 0.0 51.8 77.6#



#25
(ETBE) 2-ethoxy 2-methyl propan
Concen: 0.03 ug/L
RT: 8.32 min Scan# 532
Delta R.T. -0.18 min
Lab File: E2700009.D
Acq: 27 May 2014 1:31 pm

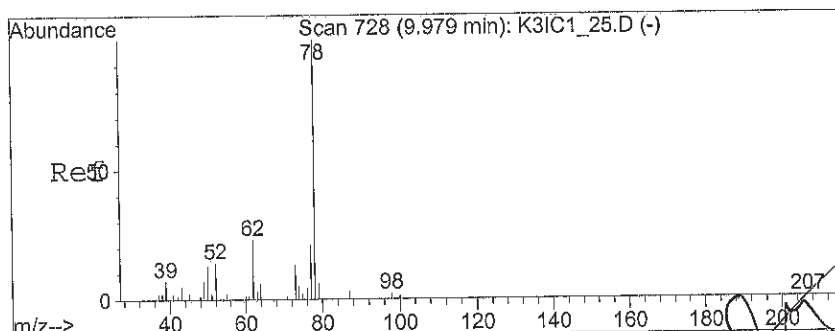
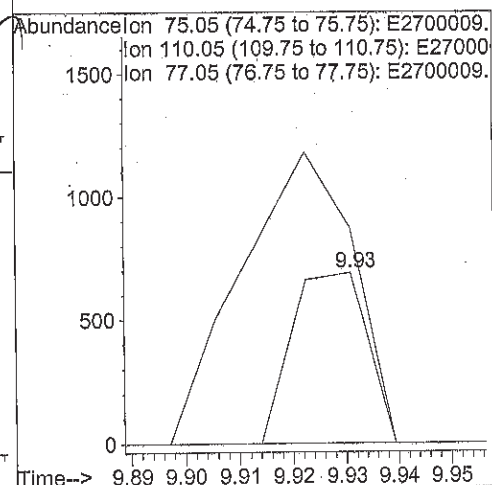
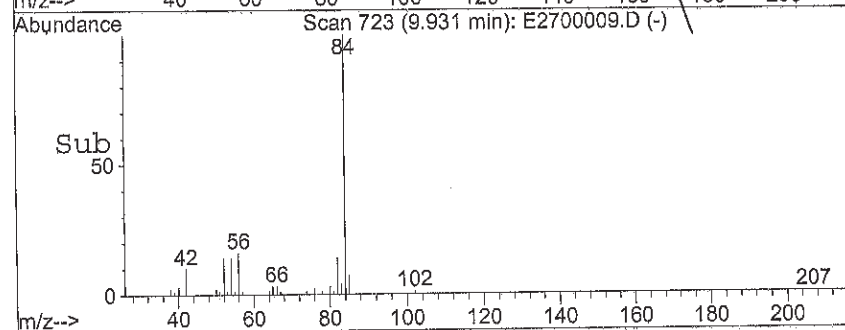
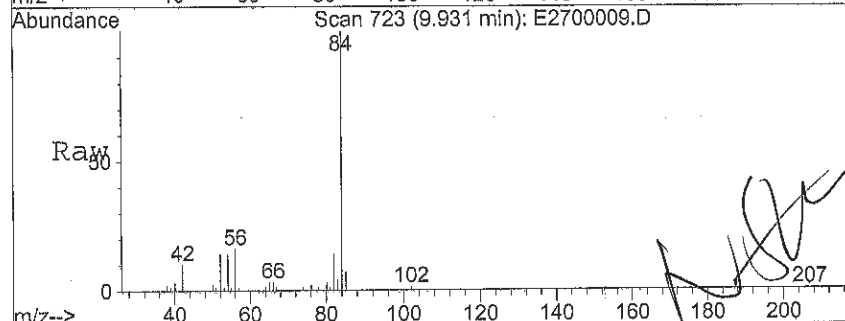
Tgt Ion: 59 Resp: 379
Ion Ratio Lower Upper
59 100
87 0.0 27.8 41.8#
57 0.0 19.8 29.6#
77 0.0 0.0 0.0





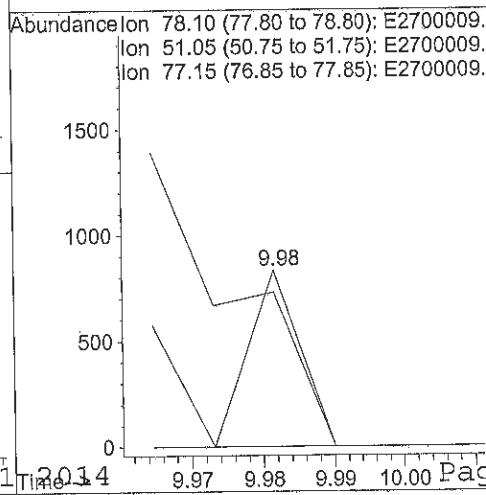
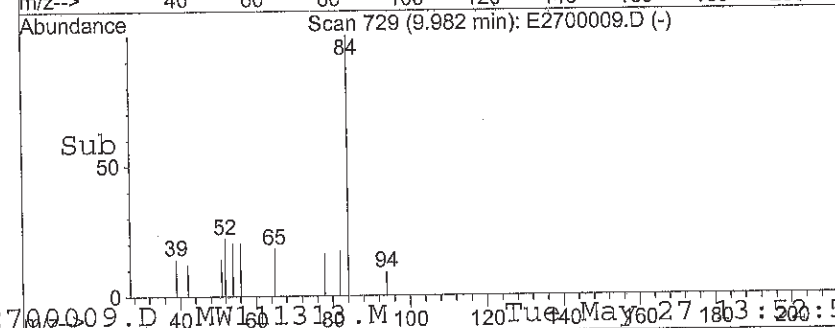
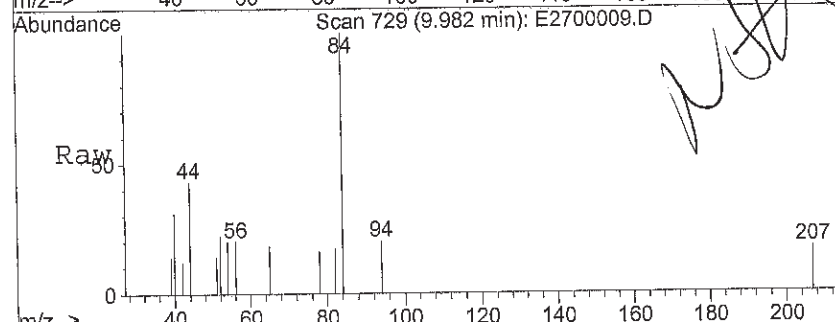
#29
 1,1-Dichloropropene
 Concen: 0.10 ug/L
 RT: 9.93 min Scan# 723
 Delta R.T. 0.25 min
 Lab File: E2700009.D
 Acq: 27 May 2014 1:31 pm

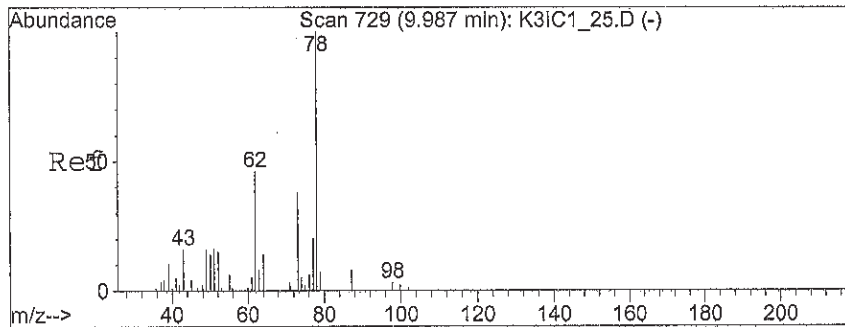
Tgt Ion: 75 Resp: 684
 Ion Ratio Lower Upper
 75 100
 110 0.0 29.0 43.6#
 77 251.5 25.0 37.4#



#31
 Benzene
 Concen: 0.03 ug/L
 RT: 9.98 min Scan# 729
 Delta R.T. 0.00 min
 Lab File: E2700009.D
 Acq: 27 May 2014 1:31 pm

Tgt Ion: 78 Resp: 422
 Ion Ratio Lower Upper
 78 100
 51 0.0 14.2 21.2#
 77 0.0 16.6 24.8#





#32

1,2-Dichloroethane

Concen: 1.19 ug/L

RT: 9.92 min Scan# 722

Delta R.T. -0.06 min

Lab File: E2700009.D

Acq: 27 May 2014 1:31 pm

Tgt Ion: 62 Resp: 6975

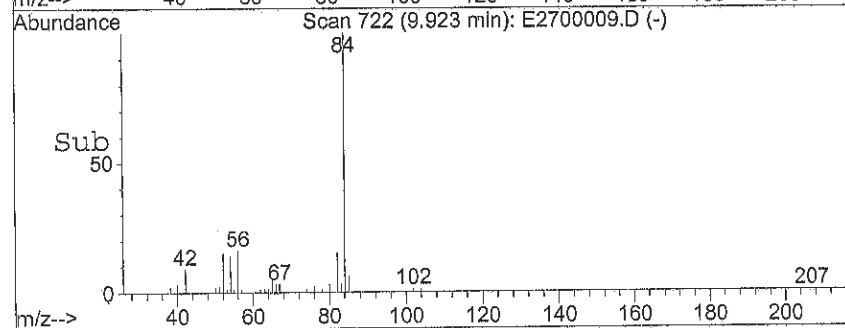
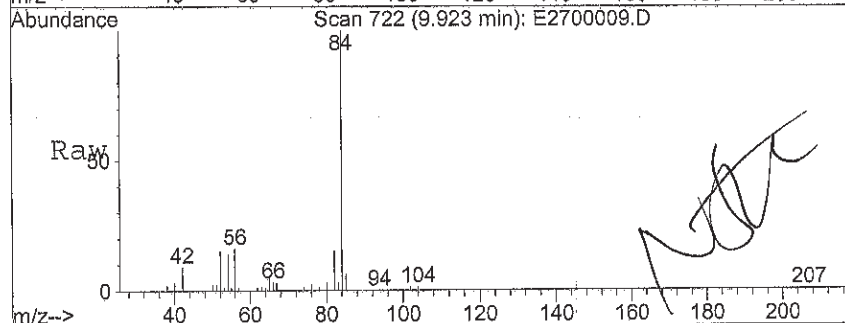
Ion Ratio Lower Upper

62 100

64 168.6 28.0 42.0#

49 0.0 28.5 42.7#

98 0.0 6.2 9.4#



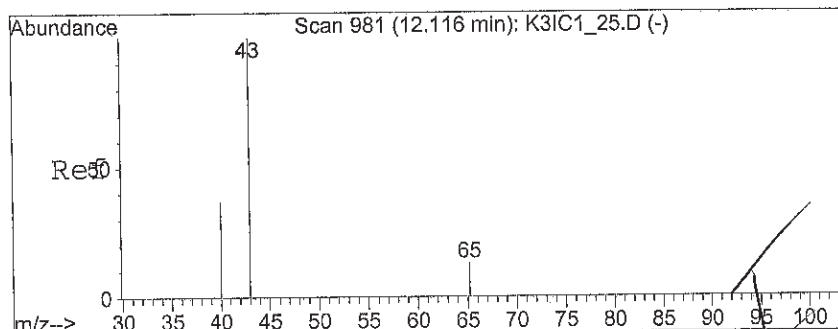
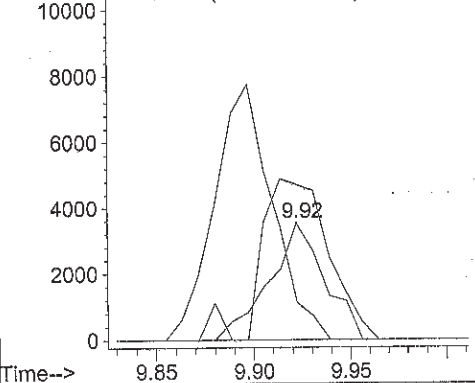
Abundance

Ion 62.05 (61.75 to 62.75): E2700009.

Ion 64.05 (63.75 to 64.75): E2700009.

Ion 49.00 (48.70 to 49.70): E2700009.

Ion 98.05 (97.75 to 98.75): E2700009.



#40

(MIBK) 4-Methyl-2-Pentanone

Concen: 0.11 ug/L

RT: 12.09 min Scan# 979

Delta R.T. -0.02 min

Lab File: E2700009.D

Acq: 27 May 2014 1:31 pm

Tgt Ion: 43 Resp: 275

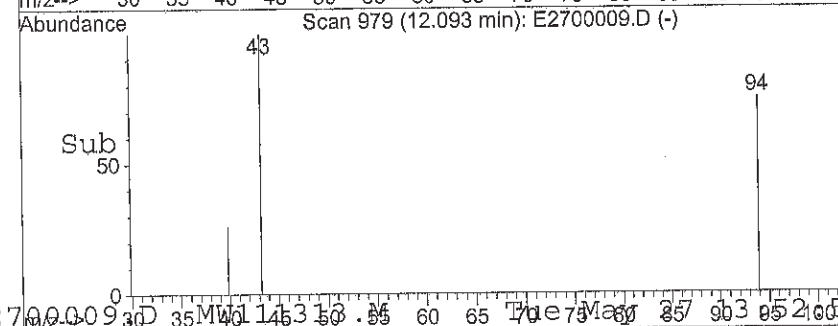
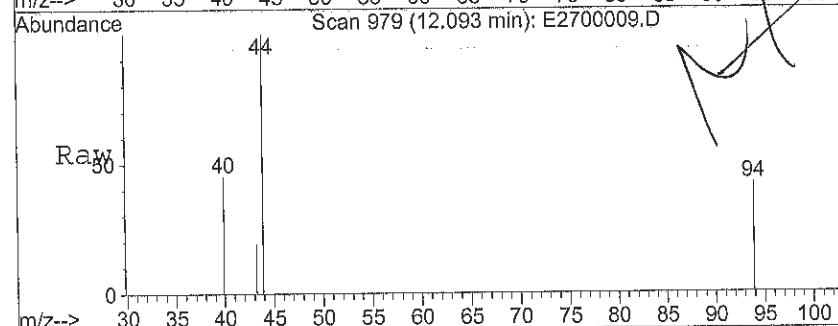
Ion Ratio Lower Upper

43 100

58 0.0 0.0 0.0

85 0.0 0.0 0.0

100 0.0 0.0 0.0



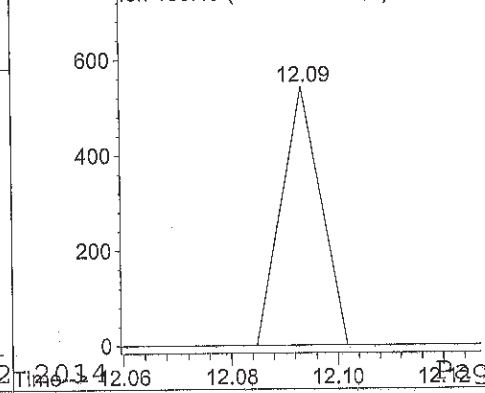
Abundance

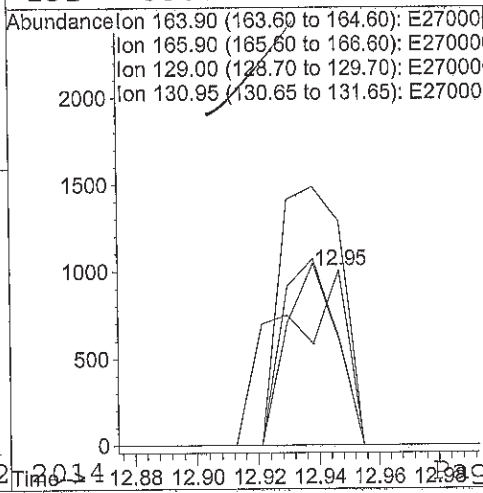
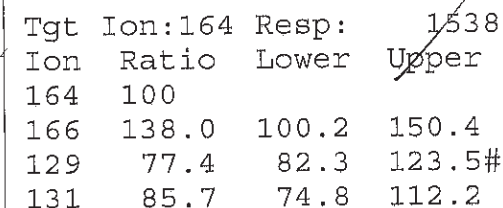
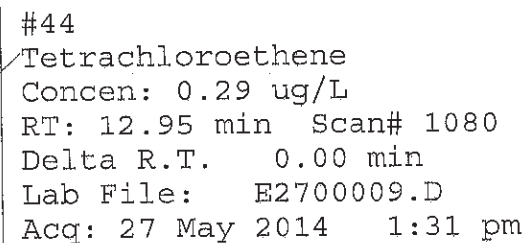
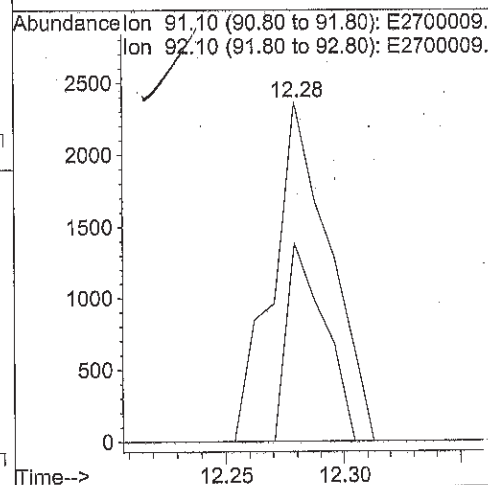
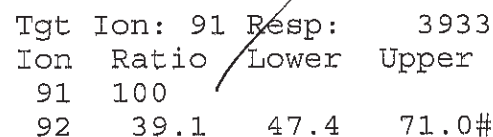
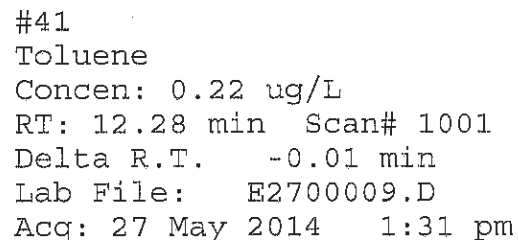
Ion 43.00 (42.70 to 43.70): E2700009.

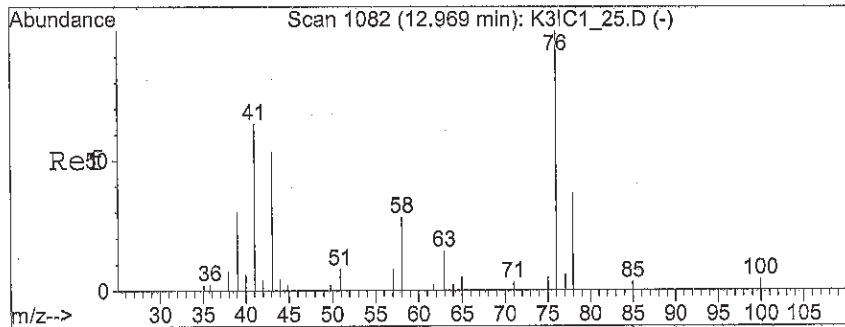
Ion 58.10 (57.80 to 58.80): E2700009.

Ion 85.05 (84.75 to 85.75): E2700009.

Ion 100.15 (99.85 to 100.85): E2700009.

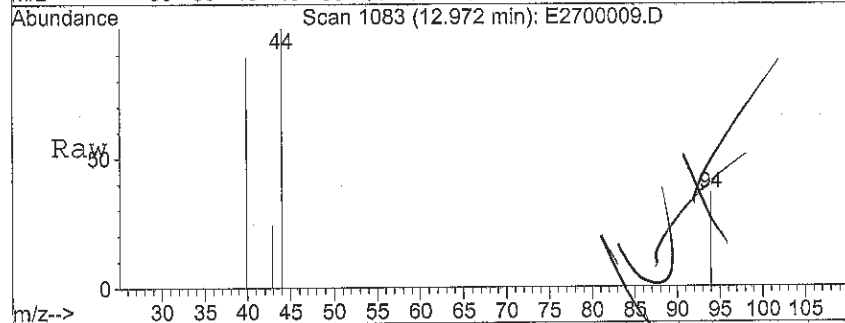






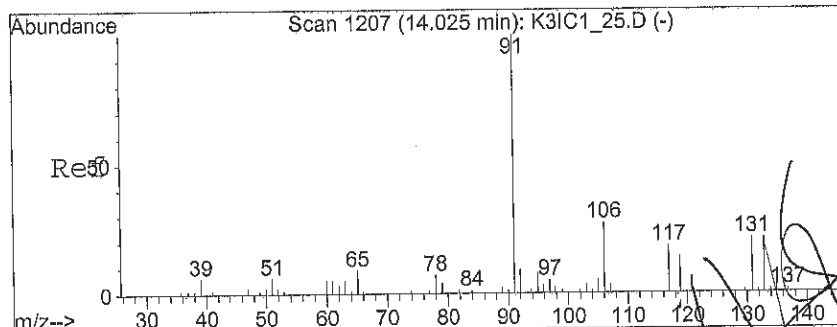
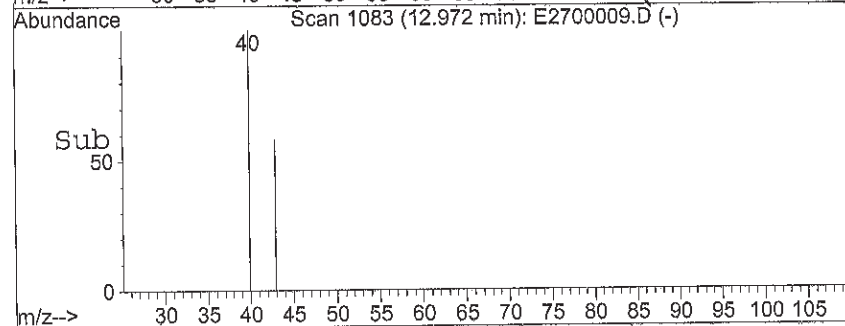
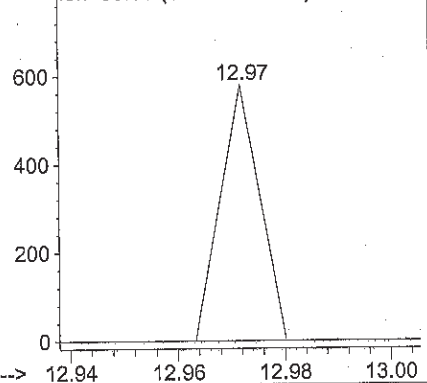
#46
2-Hexanone
Concen: 0.10 ug/L
RT: 12.97 min Scan# 1083
Delta R.T. 0.00 min
Lab File: E2700009.D
Acq: 27 May 2014 1:31 pm

Tgt Ion:	43	Resp:	294
Ion Ratio	Lower	Upper	
43	100		
58	0.0	40.9	61.3#
100	0.0	5.5	8.3#
85	0.0	4.3	6.5#



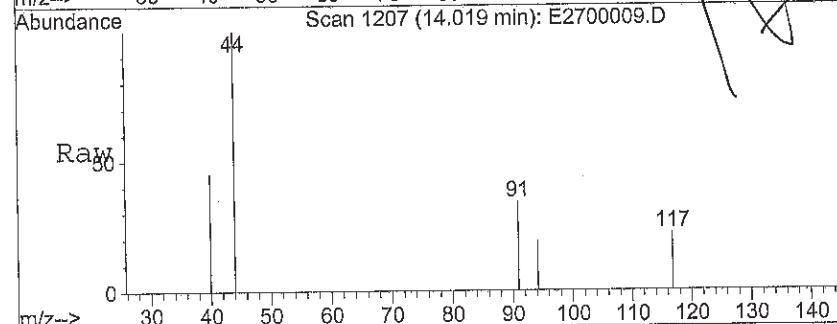
Abundance

Ion 43.00 (42.70 to 43.70): E2700009.
Ion 58.10 (57.80 to 58.80): E2700009.
Ion 100.15 (99.85 to 100.85): E2700009.
Ion 85.05 (84.75 to 85.75): E2700009.



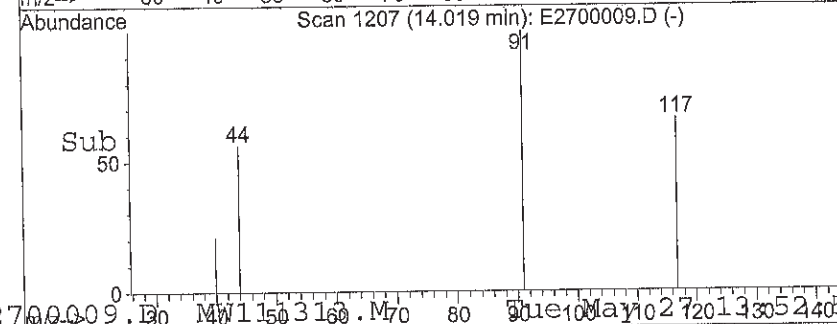
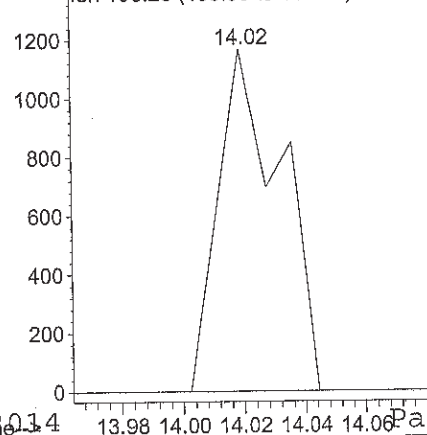
#51
Ethylbenzene
Concen: 0.08 ug/L
RT: 14.02 min Scan# 1207
Delta R.T. -0.01 min
Lab File: E2700009.D
Acq: 27 May 2014 1:31 pm

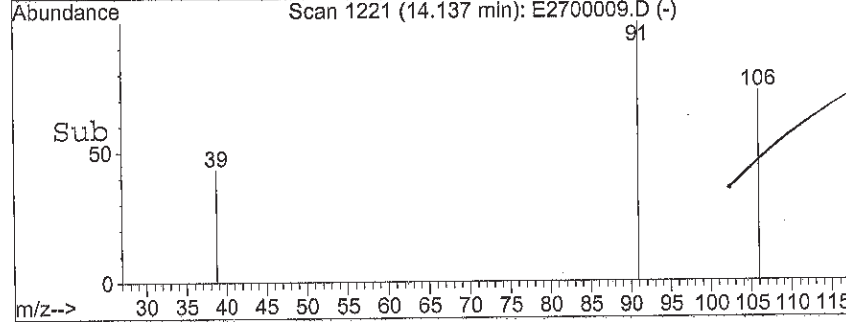
Tgt Ion:	91	Resp:	1666
Ion Ratio	Lower	Upper	
91	100		
106	0.0	23.5	35.3#



Abundance

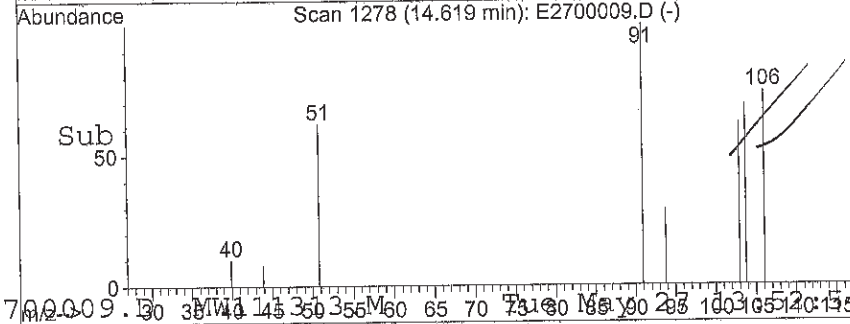
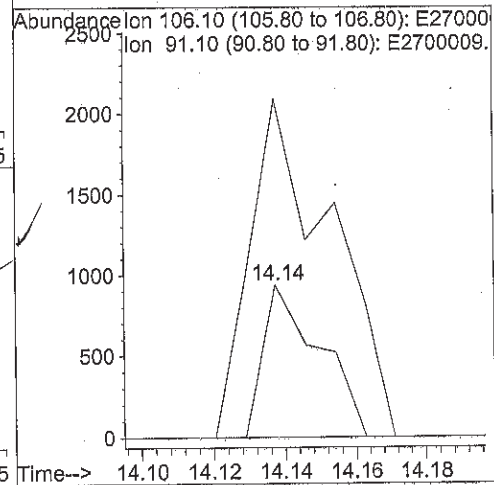
Ion 91.10 (90.80 to 91.80): E2700009.
Ion 106.20 (105.90 to 106.90): E2700009.





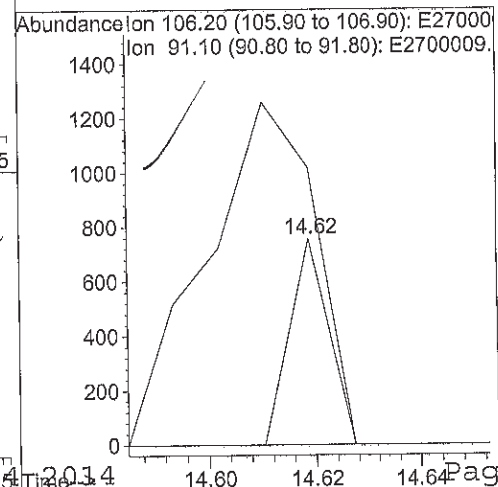
```
#52
m,p-Xylenes
Concen: 0.14 ug/L
RT: 14.14 min Scan# 1221
Delta R.T. -0.01 min
Lab File: E2700009.D
Acq: 27 May 2014 1:31 pm
```

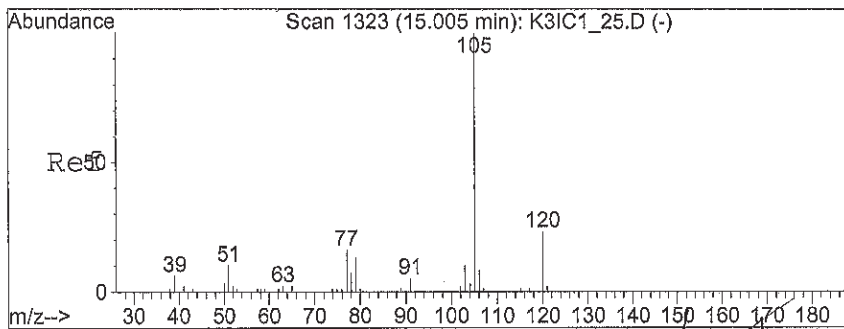
Tgt	Ion:106	Resp:	1022
Ion	Ratio	Lower	Upper
106	100		
91	324.8	177.1	265.7#



```
#53
o-Xylene
Concen: 0.05 ug/L
RT: 14.62 min Scan# 1278
Delta R.T. 0.00 min
Lab File: E2700009.D
Acq: 27 May 2014 1:31 pm
```

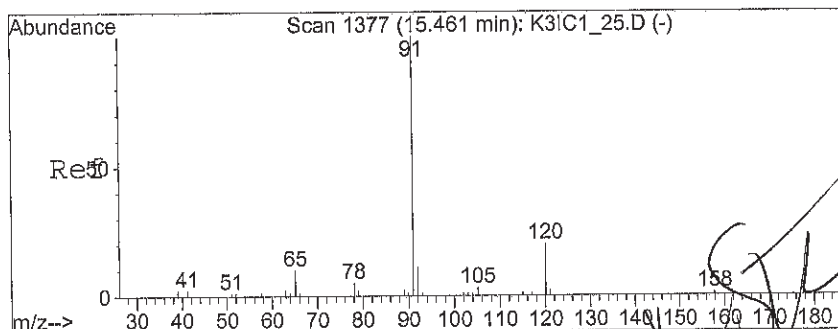
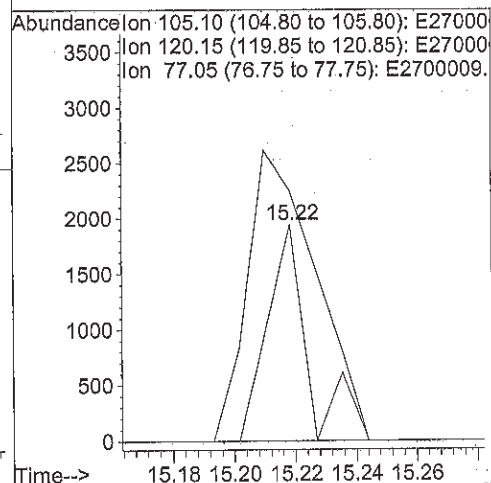
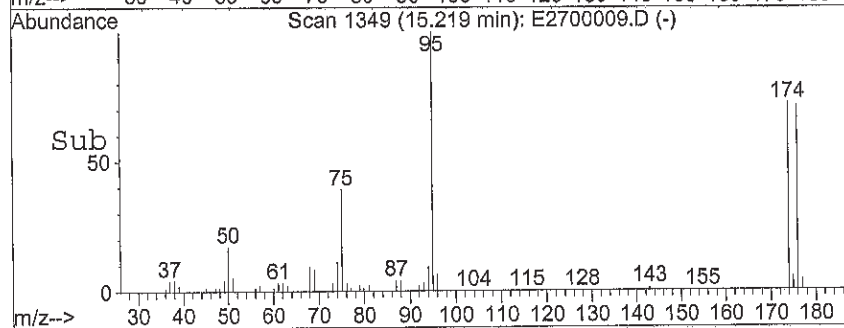
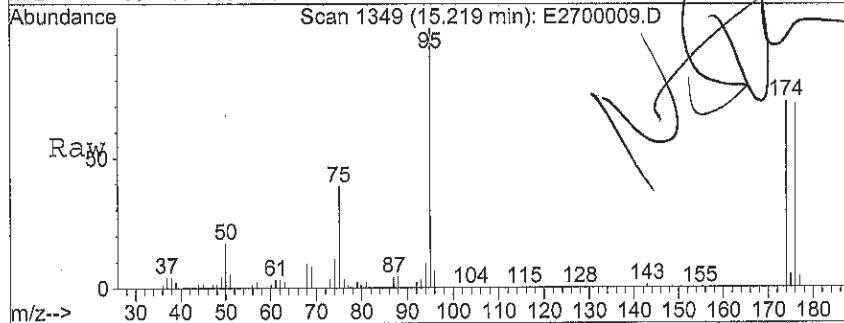
```
Tgt Ion:106 Resp:      383
Ion  Ratio  Lower  Upper
106  100
    91 464.5 179.0 268.6#
```





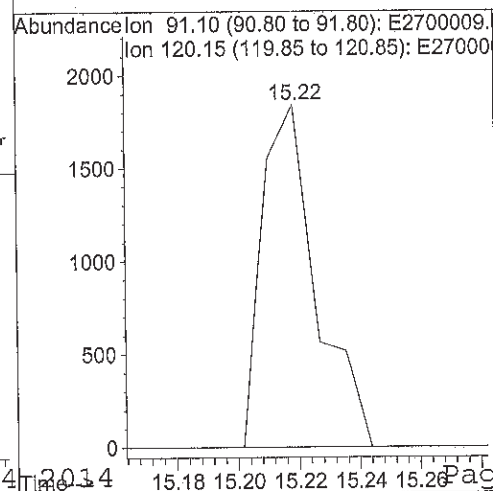
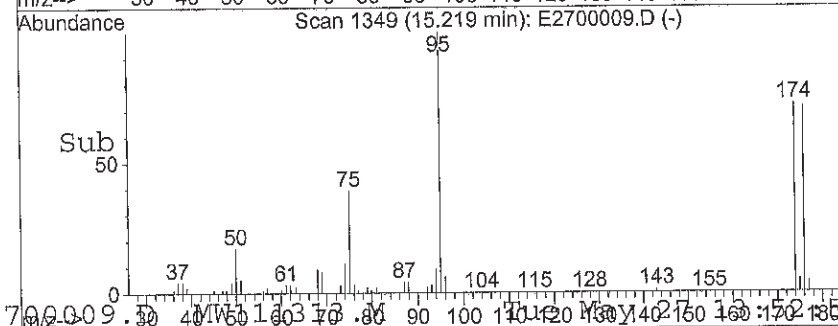
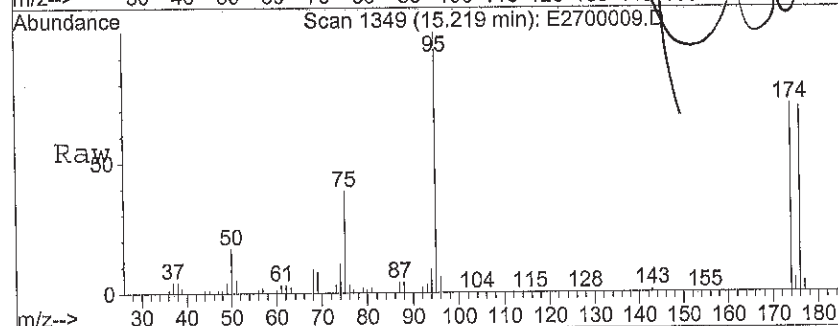
#56
Isopropylbenzene
Concen: 0.09 ug/L
RT: 15.22 min Scan# 1349
Delta R.T. 0.21 min
Lab File: E2700009.D
Acq: 27 May 2014 1:31 pm

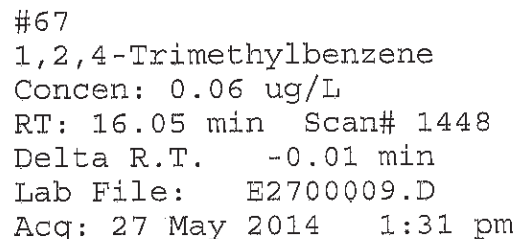
Tgt Ion: 105 Resp: 1782
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 228.3 13.1 19.7#



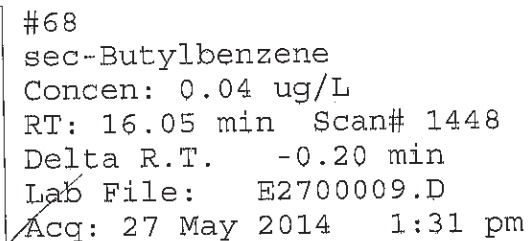
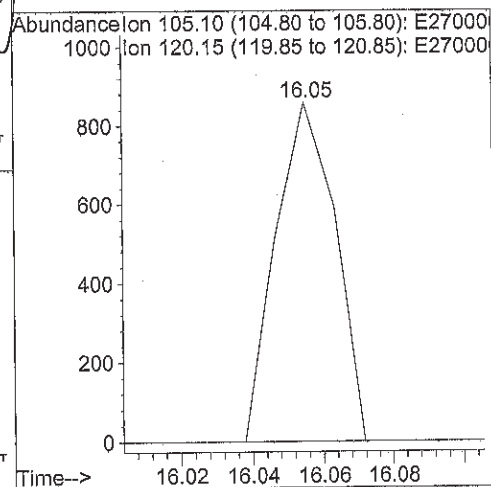
#62
n-Propylbenzene
Concen: 0.08 ug/L
RT: 15.22 min Scan# 1349
Delta R.T. -0.24 min
Lab File: E2700009.D
Acq: 27 May 2014 1:31 pm

Tgt Ion: 91 Resp: 2267
Ion Ratio Lower Upper
91 100
120 0.0 16.1 24.1#

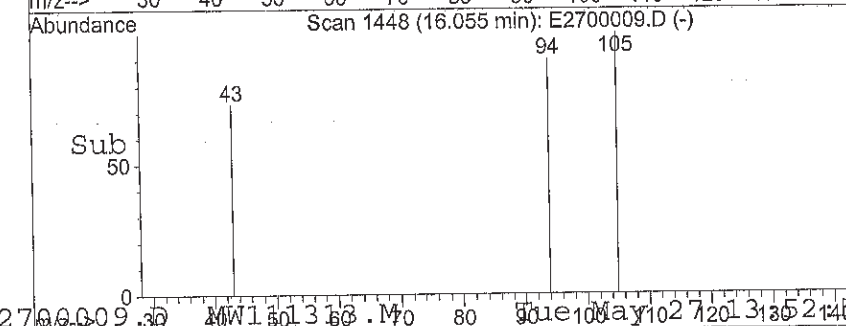
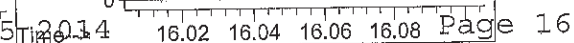
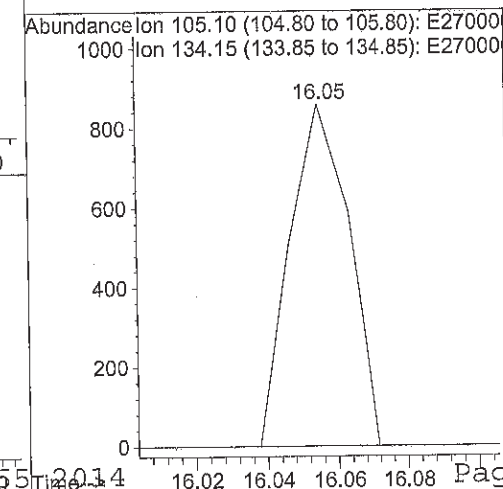


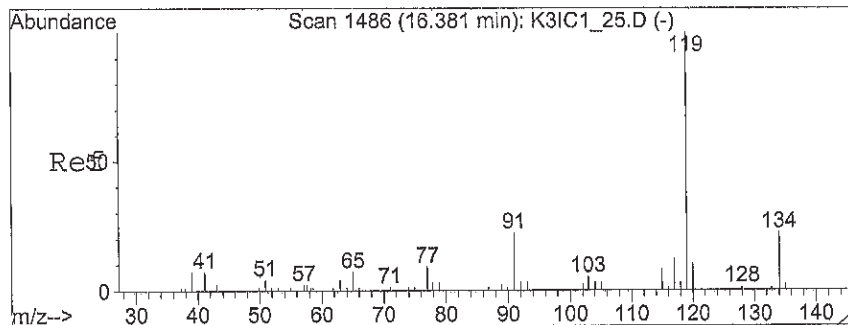


Tgt	Ion:105	Resp:	994
Ion	Ratio	Lower	Upper
105	100		
120	0.0	33.8	50.8#

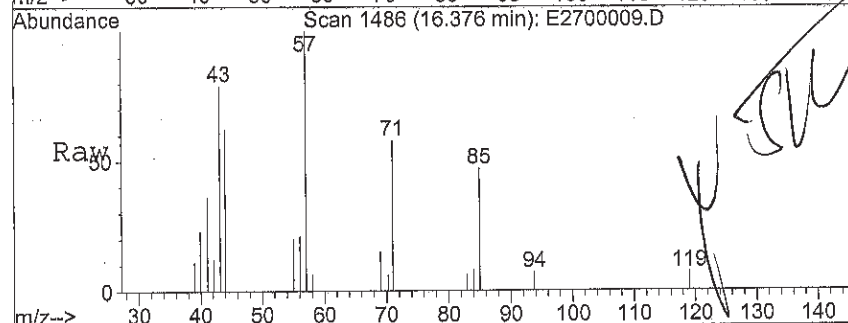


Tgt	Ion:105	Resp:	994
Ion	Ratio	Lower	Upper
105	100		
134	0.0	13.0	19.6#

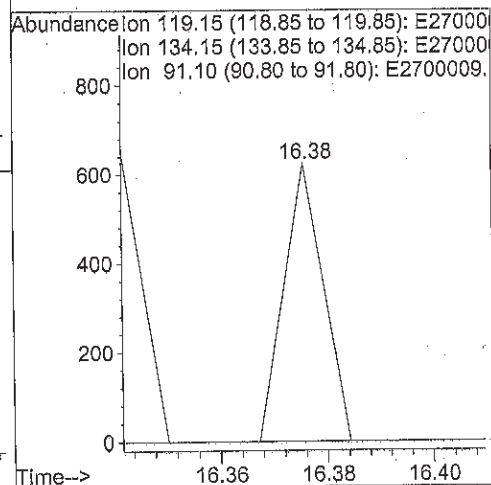
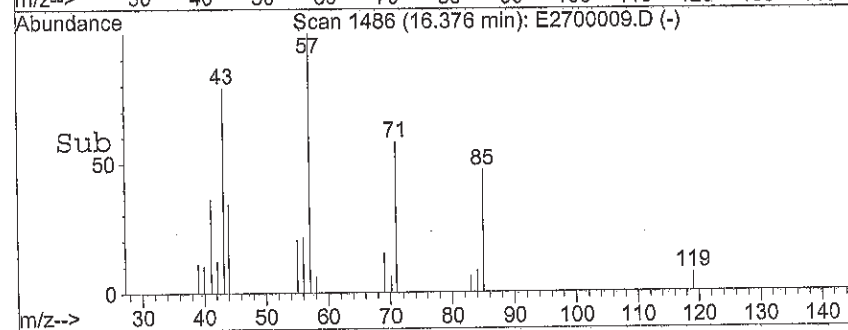




#69
 p-Isopropyltoluene
 Concen: 0.02 ug/L
 RT: 16.38 min Scan# 1486
 Delta R.T. -0.01 min
 Lab File: E2700009.D
 Acq: 27 May 2014 1:31 pm



Tgt Ion: 119 Resp: 316
 Ion Ratio Lower Upper
 119 100
 134 0.0 17.4 26.2#
 91 0.0 19.6 29.4#



Data File : C:\HPCHEM\1\DATA\052714L3\E2700009.D Vial: 8
 Acq On : 27 May 2014 1:31 pm Operator: DN
 Sample : 3E42701-07 Inst : GC/MS Ins
 Misc : 5cc SVL-513-SA5D-SV-10.0-11.0 20X DIL Multiplr: 10.00
 MS Integration Params: rteint.p
 Quant Time: May 27 13:54 19114 Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1755921	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.92	117	1286154	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	676173	12.50	ug/L	-0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	486155	10.65	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	85.20%
3) Chloroform-d (SU6)	9.18	84	734956	11.22	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	89.76%
4) Methylene Chloride-d2 (SU5)	7.07	86	418137	10.92	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	87.36%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	445620	14.28	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	114.24%
6) Benzene-d6 (SU7)	9.92	84	1416811	10.28	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	82.24%
8) Toluene-d8 (SU3)	12.20	98	1524962	12.50	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	100.00%
9) 4-Bromofluorobenzene (SU4)	15.22	95	693285	13.76	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	110.08%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700009.D SS072713.M Tue May 27 13:54:43 2014

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700009.D

Vial: 8

Acq On : 27 May 2014 1:31 pm

Operator: DN

Sample : 3E42701-07

Inst : GC/MS Ins

Misc : 5cc SVL-513-SA5D-SV-10.0-11.0 20X DIL

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 13:54 19114

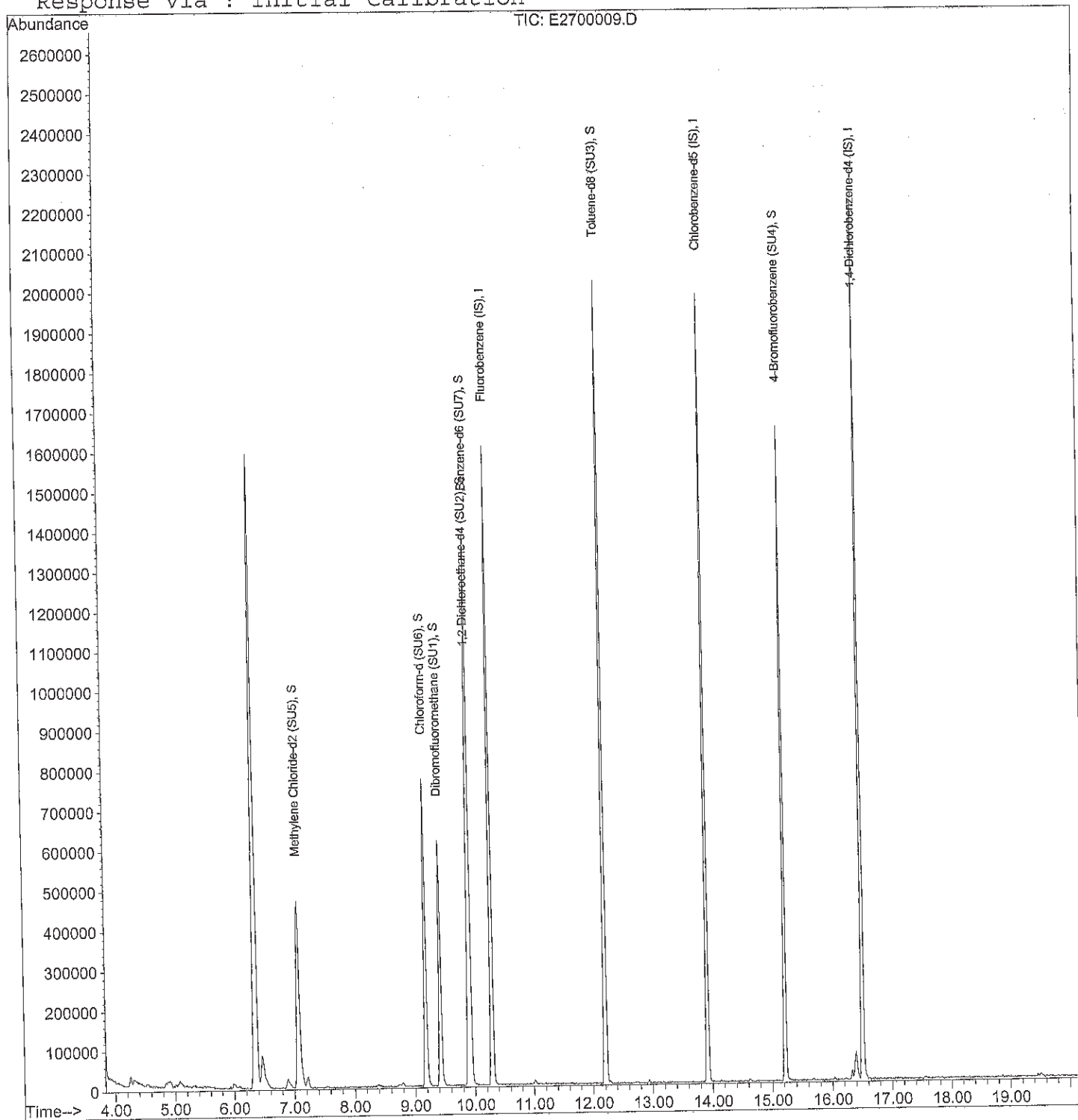
Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E2700010.D

Vial: 8

Acq On : 27 May 2014 2:01 pm

Operator: DN

Sample : 3E42701-08

Inst : GC/MS Ins

Misc : 5cc SVL-513-SA5D-SV-15.5-16.5 20X DIL Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 14:26 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Re-run 1X

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1745629	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1286126	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	662328	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	475929	10.93	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	87.44%
28) 1,2-Dichloroethane-d4 (SU2)	9.89	65	445986	10.78	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	86.24%
39) Toluene-d8 (SU3)	12.20	98	1503881	12.54	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	100.32%
58) 4-Bromofluorobenzene (SU4)	15.22	95	692191	13.16	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	105.28%

Target Compounds

						Qvalue
4) Chloromethane	4.40	50	4276	0.24	ug/L #	54
6) Bromomethane	5.06	96	8247	2.52	ug/L #	58
7) Chloroethane	5.11	64	2633	2.50	ug/L	89
9) (F113) 1,1,2-Trichloro-tri	6.34	151	271	0.08	ug/L #	19
11) Acetone	6.47	58	12120	14.02	ug/L	92
12) (IPA) Leak Check Compound	6.47	45	161582	770.31	ug/L #	87
14) Methylene Chloride	7.06	84	4848	1.01	ug/L #	1
15) (TBA) tert-Butanol	6.95	59	598	2.01	ug/L #	77
20) 2,2-Dichloropropane	8.78	77	292	0.04	ug/L #	1
24) Chloroform	9.21	83	1729	0.19	ug/L #	18
29) 1,1-Dichloropropene	9.93	75	333	0.05	ug/L #	1
31) Benzene	9.99	78	449	0.03	ug/L #	57
32) 1,2-Dichloroethane	9.92	62	5912	1.02	ug/L #	1
34) 1,2-Dichloropropane	11.03	63	314	0.08	ug/L #	2
40) (MIBK) 4-Methyl-2-Pentanone	12.19	43	6930	2.70	ug/L #	100
41) Toluene	12.28	91	2910	0.17	ug/L #	83
46) 2-Hexanone	12.73	43	1540	0.55	ug/L #	37
51) Ethylbenzene	14.03	91	1784	0.09	ug/L #	75
52) m,p-Xylenes	14.13	106	1435	0.20	ug/L	73
54) Styrene	14.62	104	2490	-0.62	ug/L #	73
56) Isopropylbenzene	15.22	105	1752	0.09	ug/L #	1
57) 1,2,3-Trichloropropane	15.33	75	286	0.05	ug/L #	36

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E2700010.D Vial: 8
Acq On : 27 May 2014 2:01 pm Operator: DN
Sample : 3E42701-08 Inst : GC/MS Ins
Misc : 5cc SVL-513-SA5D-SV-15.5-16.5 20X DIL Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: May 27 14:26 19114 Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
62) n-Propylbenzene	15.44	91	599	0.02	ug/L #	56
63) 2-Chlorotoluene	15.44	91	599	0.04	ug/L #	45
67) 1,2,4-Trimethylbenzene	16.05	105	264	0.02	ug/L #	33
68) sec-Butylbenzene	16.15	105	293	0.01	ug/L #	62
69) p-Isopropyltoluene	16.38	119	869	0.05	ug/L #	52

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700010.D

Vial: 8

Acq On : 27 May 2014 2:01 pm

Operator: DN

Sample : 3E42701-08

Inst : GC/MS Ins

Misc : 5cc SVL-513-SA5D-SV-15.5-16.5 20X DIL Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 14:26 19114

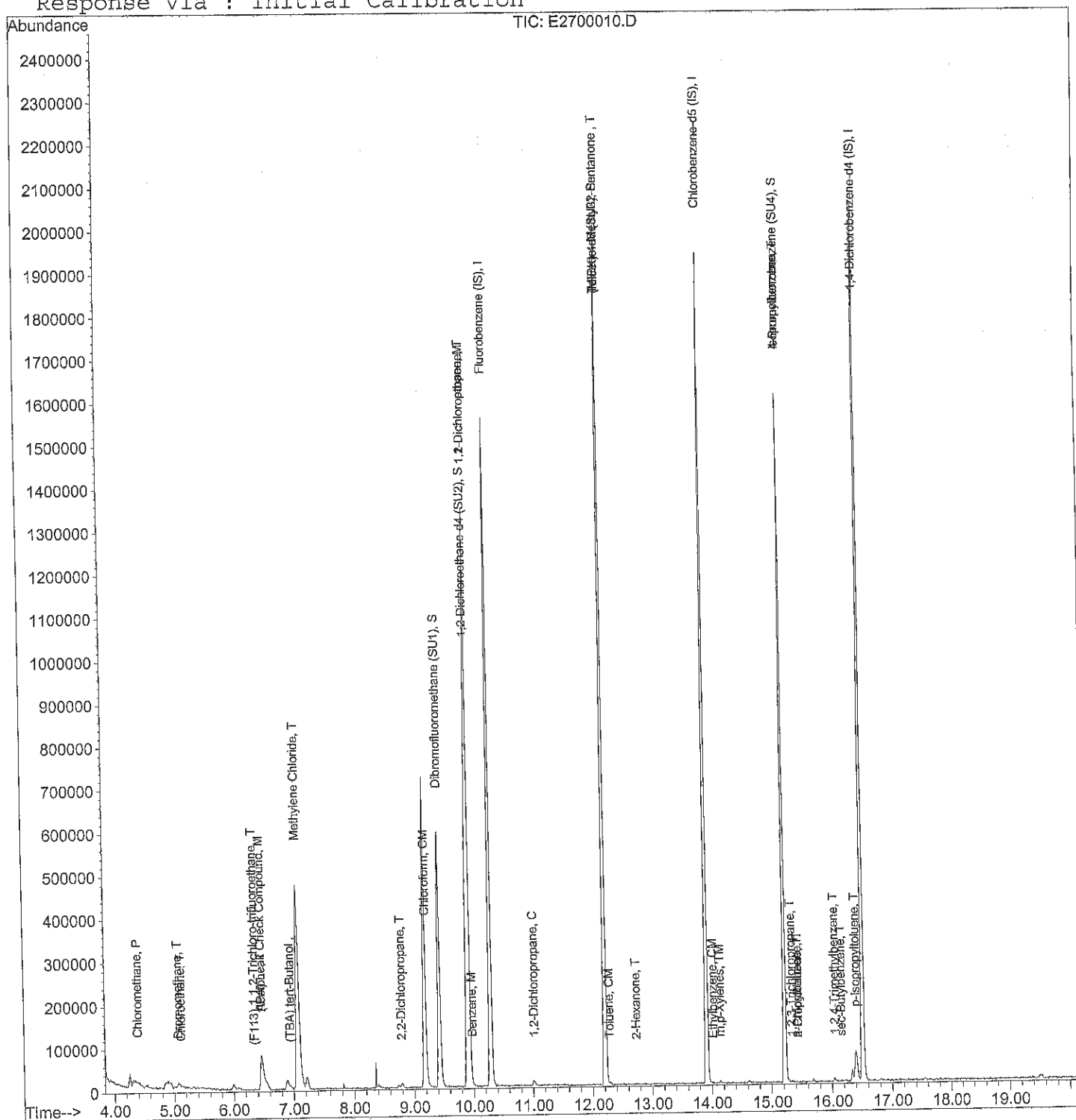
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Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E2700011.D
 Acq On : 27 May 2014 2:34 pm
 Sample : 3E42701-08
 Misc : 100cc SVL-513-SA5D-SV-15.5-16.5
 MS Integration Params: rteint.p
 Quant Time: May 27 15:09 19114

Vial: 2
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1694263	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1301352	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	693994	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	481941	11.40	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	91.20%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	462116	11.51	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	92.08%
39) Toluene-d8 (SU3)	12.20	98	1510269	12.44	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	99.52%
58) 4-Bromofluorobenzene (SU4)	15.22	95	709259	13.33	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	106.64%

Target Compounds

					Qvalue	
3) (F12) Dichlorodifluorometh	4.10	85	626	0.15 ug/L	#	44
4) Chloromethane	4.41	50	6597	1.10 ug/L	#	54
6) Bromomethane	5.04	96	8385	2.72 ug/L	#	95
7) Chloroethane	5.24	64	3198	2.96 ug/L	#	32
9) (F113) 1,1,2-Trichloro-tri	6.35	151	65999	19.82 ug/L	0.396	99
10) 1,1-Dichloroethene	6.43	96	4608	1.15 ug/L	#	85
11) Acetone	6.47	58	11841	14.16 ug/L	#	97
12) (IPA) Leak Check Compound	6.46	45	205852	1011.11 ug/L	#	88
13) Carbon disulfide	6.84	76	14009	0.99 ug/L	#	95
14) Methylene Chloride	7.07	84	6505	1.40 ug/L	#	1
15) (TBA) tert-Butanol	7.14	59	634	2.19 ug/L	#	77
19) cis-1,2-Dichloroethene	8.72	96	268	0.05 ug/L	#	3
22) (DIPE) Diisopropyl Ether	8.18	45	255	0.02 ug/L	#	48
24) Chloroform	9.21	83	858	0.10 ug/L	#	1
25) (ETBE) 2-ethoxy 2-methyl p	8.37	59	257	0.02 ug/L	#	44
29) 1,1-Dichloropropene	9.91	75	620	0.09 ug/L	#	1
31) Benzene	9.98	78	2686	0.17 ug/L	#	73
32) 1,2-Dichloroethane	9.92	62	6374	1.13 ug/L	#	1
35) Dibromomethane	11.00	93	259	0.09 ug/L	#	5
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	8060	3.10 ug/L	#	100
41) Toluene	12.29	91	21574	1.22 ug/L	0.02	91
46) 2-Hexanone	12.94	43	908	0.32 ug/L	#	37

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E2700011.D
Acq On : 27 May 2014 2:34 pm
Sample : 3E42701-08
Misc : 100cc SVL-513-SA5D-SV-15.5-16.5
MS Integration Params: rteint.p
Quant Time: May 27 15:09 19114

Vial: 2
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
51) Ethylbenzene	14.03	91	7835	0.39 ug/L	#0.007861
52) m,p-Xylenes	14.15	106	7224	1.01 ug/L	#0.020298
53) o-Xylene	14.62	106	3589	0.51 ug/L	#0.010299
54) Styrene	14.62	104	2710	-0.60 ug/L	#0.010299
56) Isopropylbenzene	15.00	105	254	0.01 ug/L	#0.010299
57) 1,2,3-Trichloropropane	15.37	75	260	0.05 ug/L	#0.010299
62) n-Propylbenzene	15.46	91	1192	0.04 ug/L	#0.010299
63) 2-Chlorotoluene	15.46	91	1192	0.07 ug/L	#0.010299
64) 1,3,5-Trimethylbenzene	15.62	105	699	0.04 ug/L	#0.010299
66) tert-Butylbenzene	16.06	119	438	0.03 ug/L	#0.010299
67) 1,2,4-Trimethylbenzene	16.06	105	3346	0.19 ug/L	#0.010299
68) sec-Butylbenzene	16.33	105	254	0.01 ug/L	#0.010299
69) p-Isopropyltoluene	16.38	119	950	0.05 ug/L	#0.010299

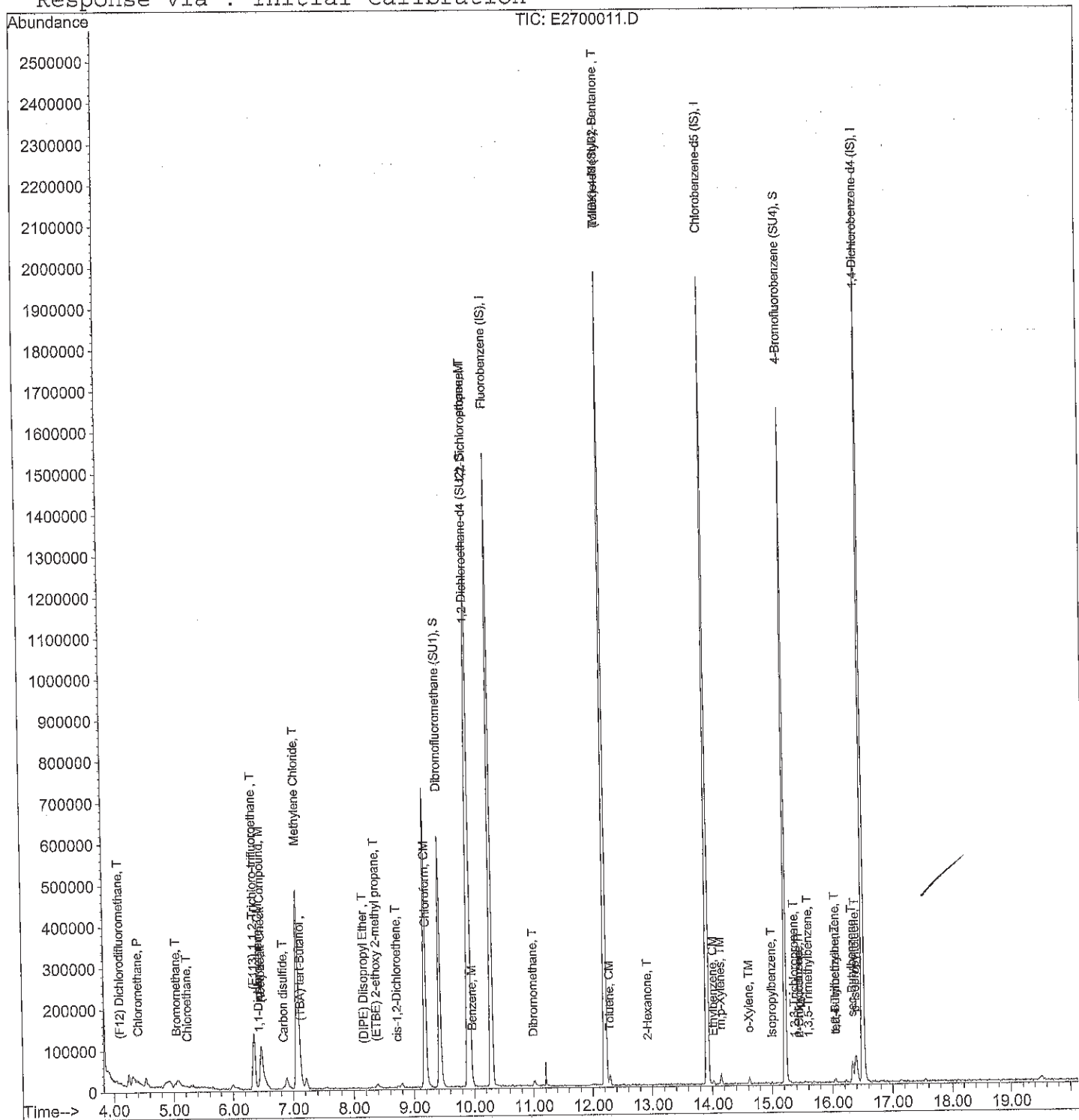
Quantitation Report

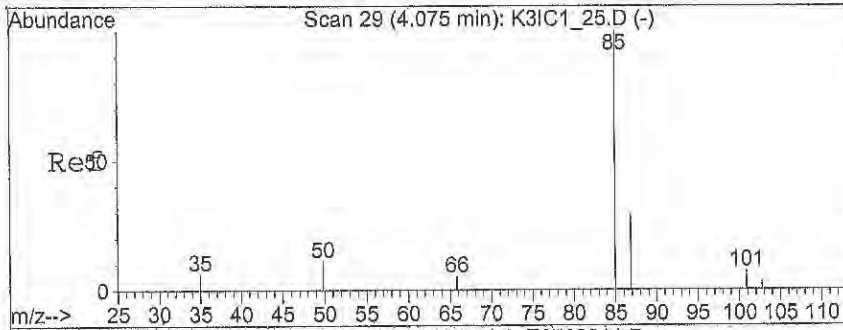
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 Sample : 3E42701-08
 Misc : 100cc SVL-513-SA5D-SV-15.5-16.5
 MS Integration Params: rteint.p
 Quant Time: May 27 15:09 19114

Vial: 2
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

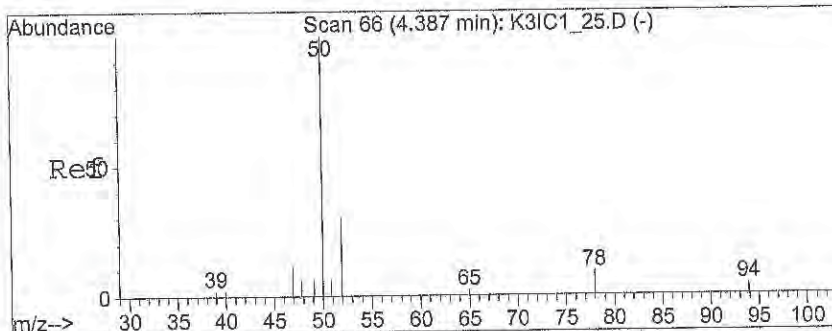
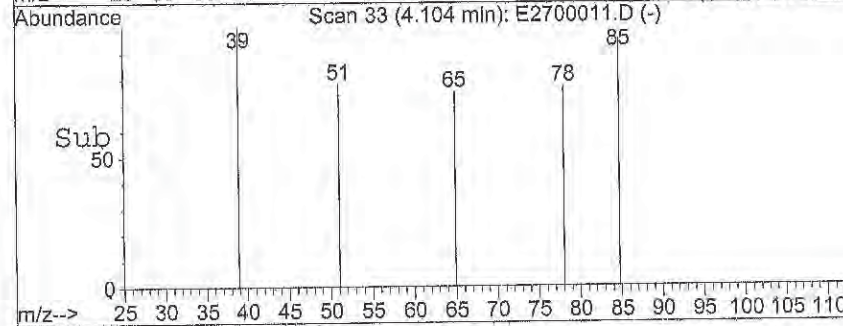
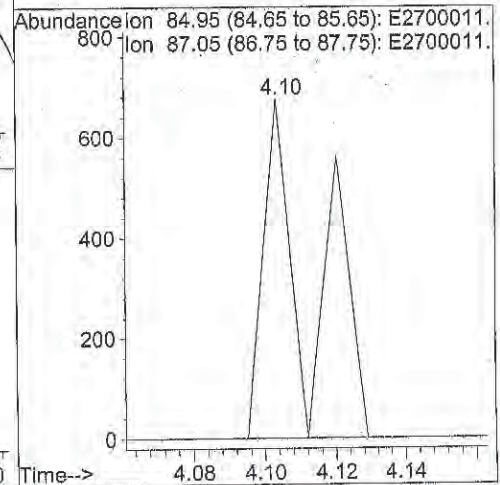
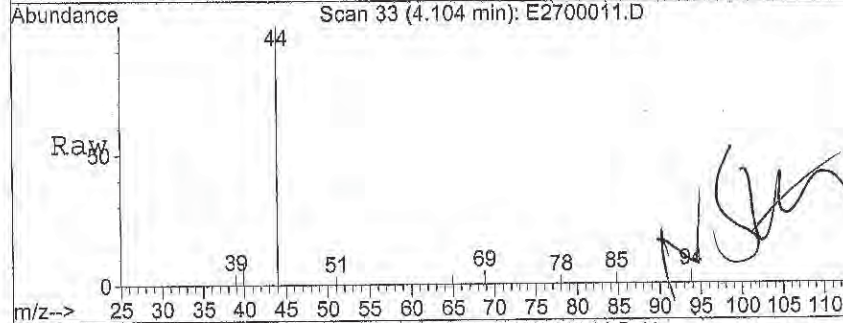
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 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration





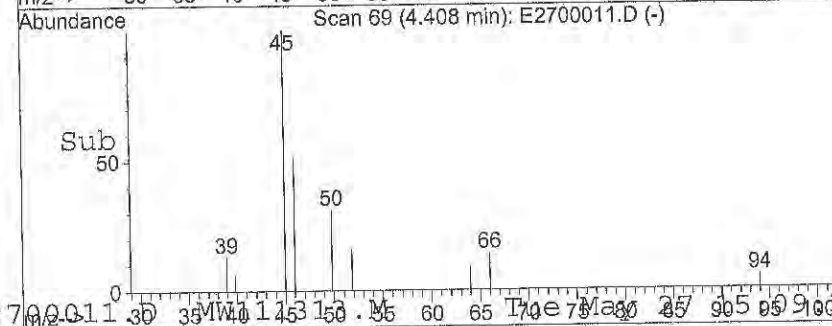
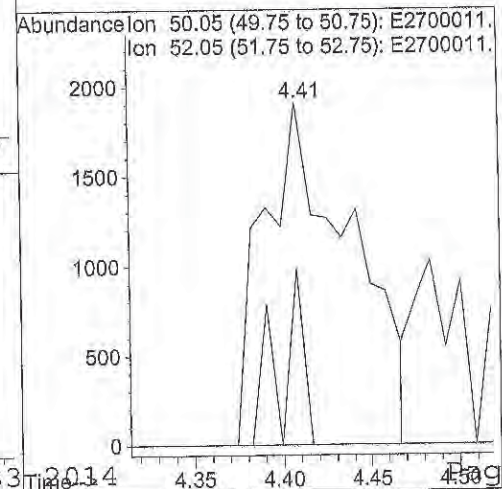
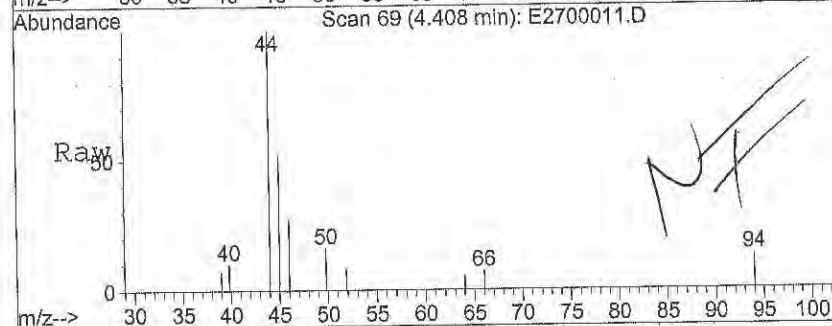
#3
 (F12) Dichlorodifluoromethane
 Concen: 0.15 ug/L
 RT: 4.10 min Scan# 33
 Delta R.T. 0.03 min
 Lab File: E2700011.D
 Acq: 27 May 2014 2:34 pm

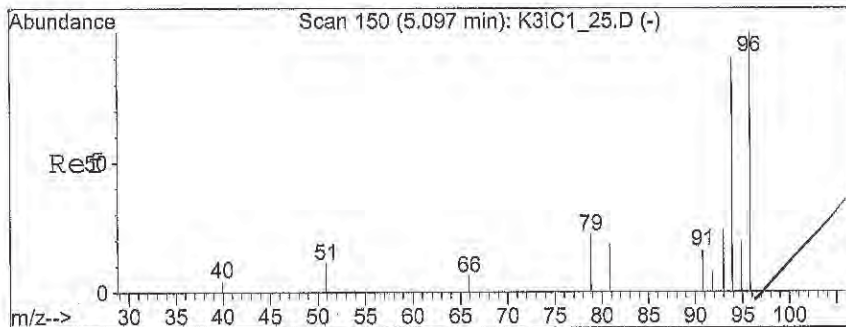
Tgt Ion: 85 Resp: 626
 Ion Ratio Lower Upper
 85 100
 87 0.0 24.6 37.0#



#4
 Chloromethane
 Concen: 1.10 ug/L
 RT: 4.41 min Scan# 69
 Delta R.T. 0.02 min
 Lab File: E2700011.D
 Acq: 27 May 2014 2:34 pm

Tgt Ion: 50 Resp: 6597
 Ion Ratio Lower Upper
 50 100
 52 7.5 26.9 40.3#





#6

Bromomethane

Concen: 2.72 ug/L

RT: 5.04 min Scan# 144

Delta R.T. -0.06 min

Lab File: E2700011.D

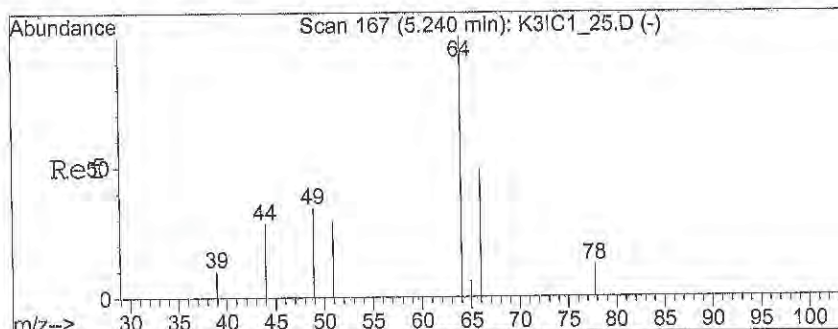
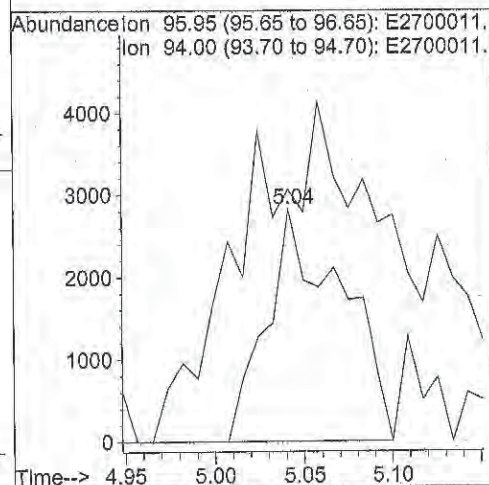
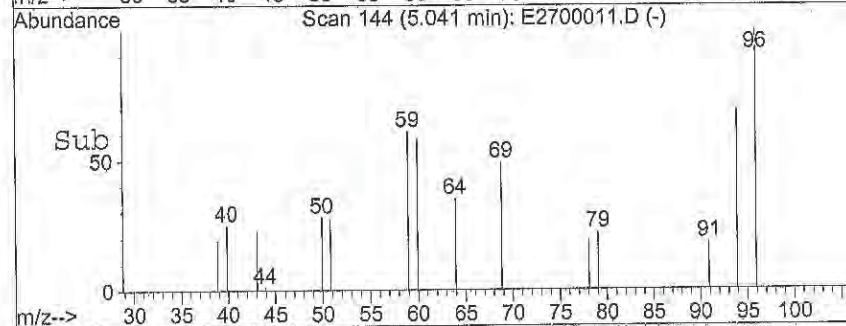
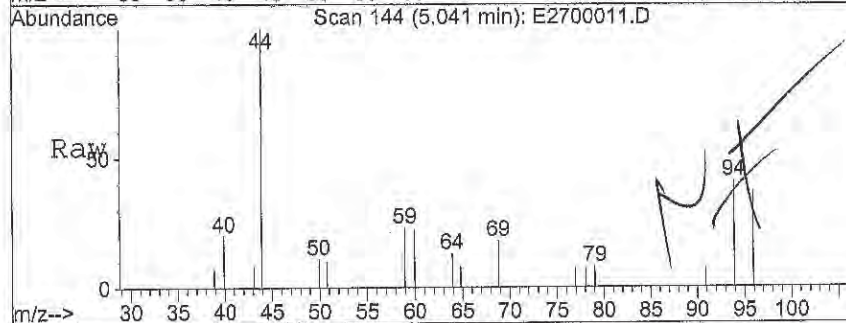
Acq: 27 May 2014 2:34 pm

Tgt Ion: 96 Resp: 8385

Ion Ratio Lower Upper

96 100

94 120.9 101.0 151.4



#7

Chloroethane

Concen: 2.96 ug/L

RT: 5.24 min Scan# 167

Delta R.T. -0.00 min

Lab File: E2700011.D

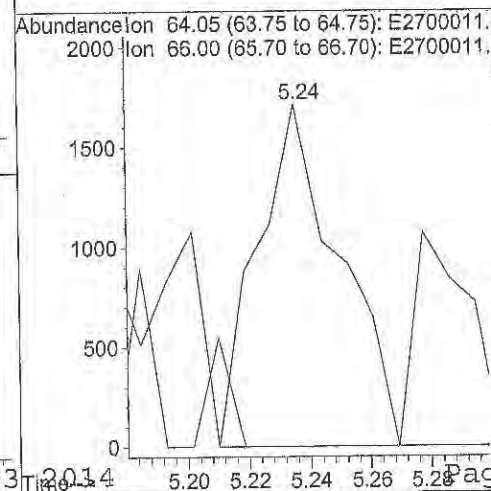
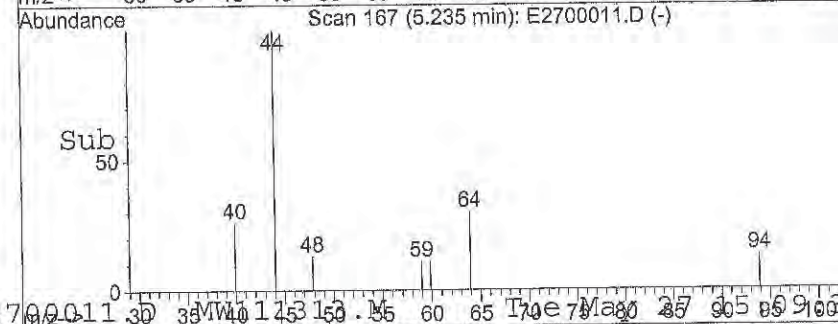
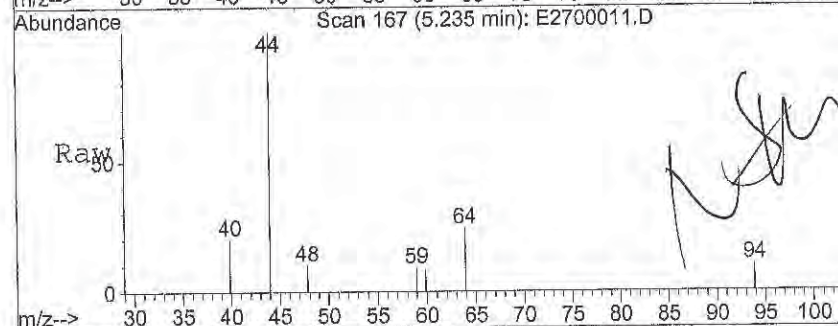
Acq: 27 May 2014 2:34 pm

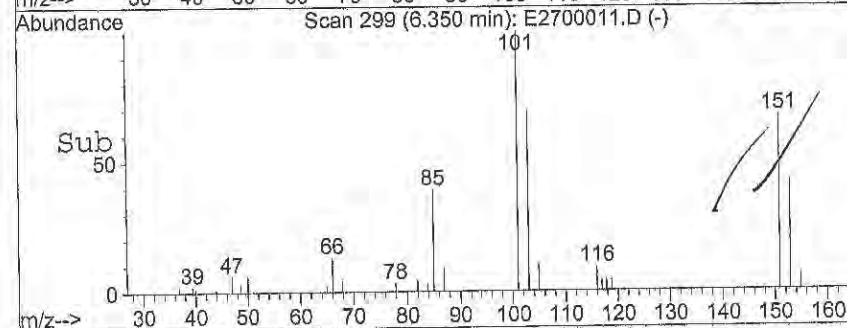
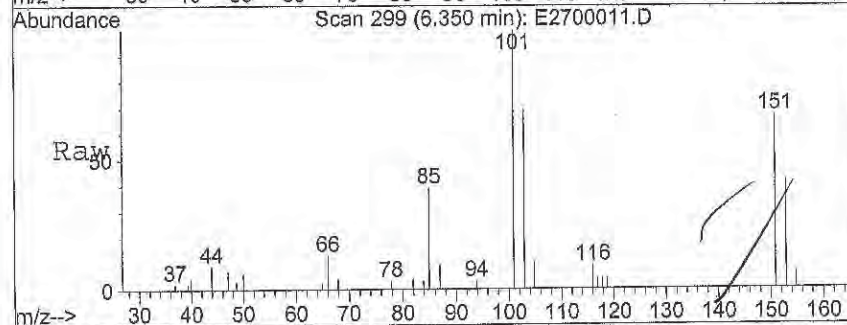
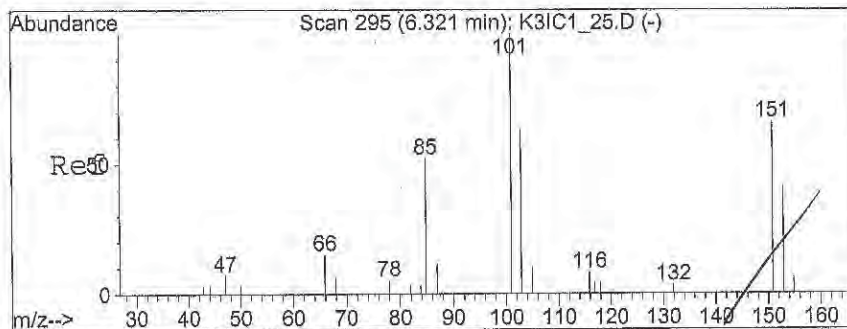
Tgt Ion: 64 Resp: 3198

Ion Ratio Lower Upper

64 100

66 0.0 35.4 53.0#





#9

(F113) 1,1,2-Trichloro-trifluor

Concen: 19.82 ug/L

RT: 6.35 min Scan# 299

Delta R.T. 0.03 min

Lab File: E2700011.D

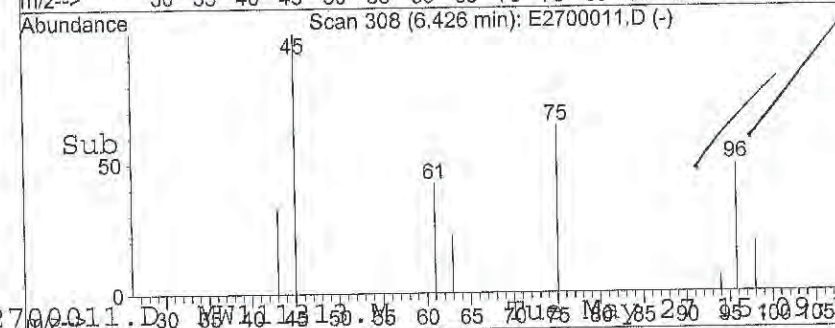
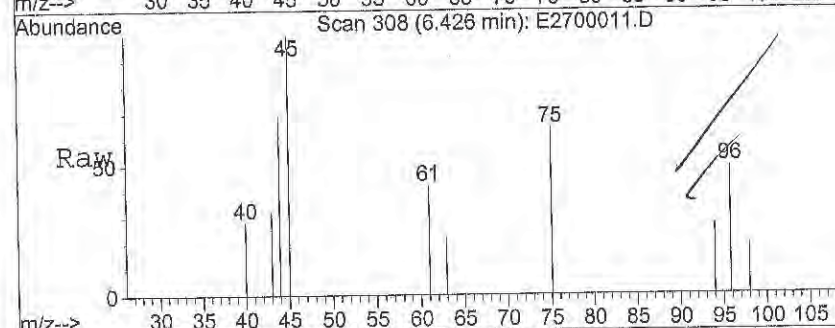
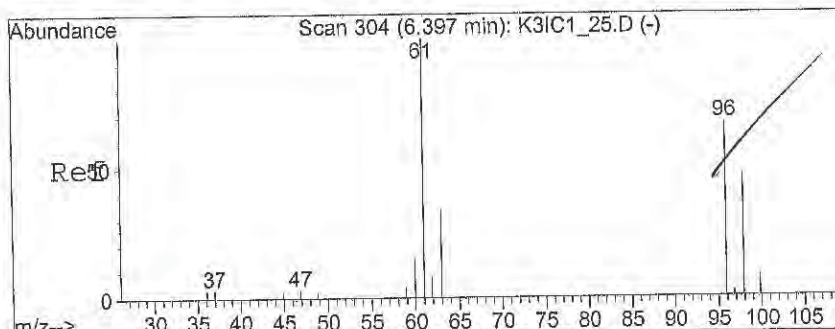
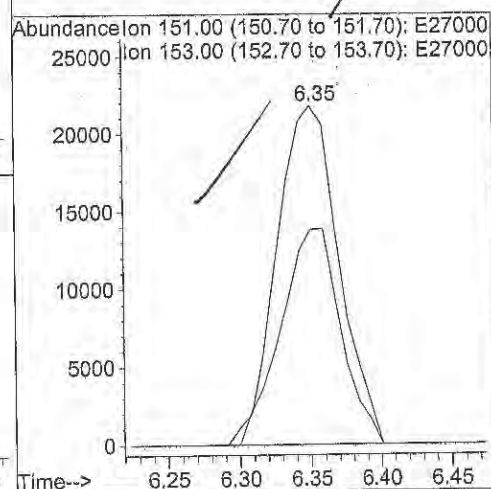
Acq: 27 May 2014 2:34 pm

Tgt Ion: 151 Resp: 65999

Ion Ratio Lower Upper

151 100

153 61.3 49.6 74.4



#10

1,1-Dichloroethene

Concen: 1.15 ug/L

RT: 6.43 min Scan# 308

Delta R.T. 0.03 min

Lab File: E2700011.D

Acq: 27 May 2014 2:34 pm

Tgt Ion: 96 Resp: 4608

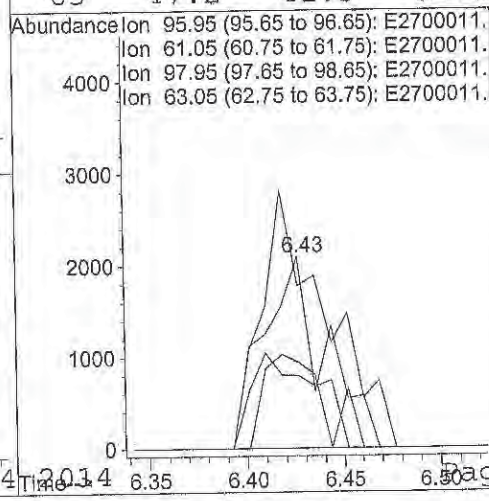
Ion Ratio Lower Upper

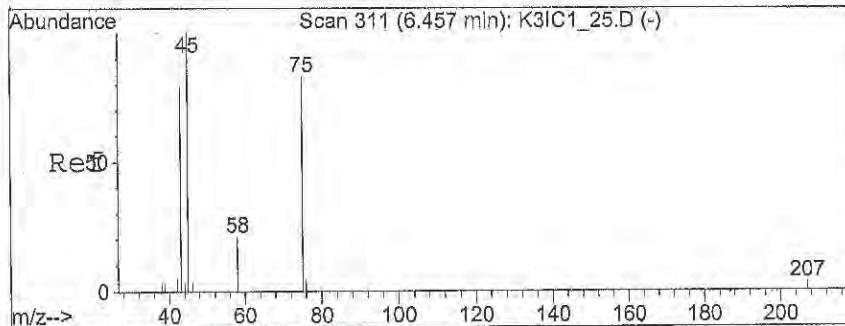
96 100

61 143.3 130.0 195.0

98 51.5 56.2 84.4#

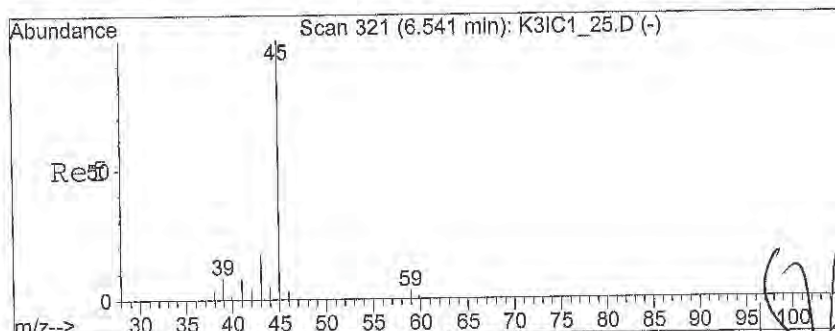
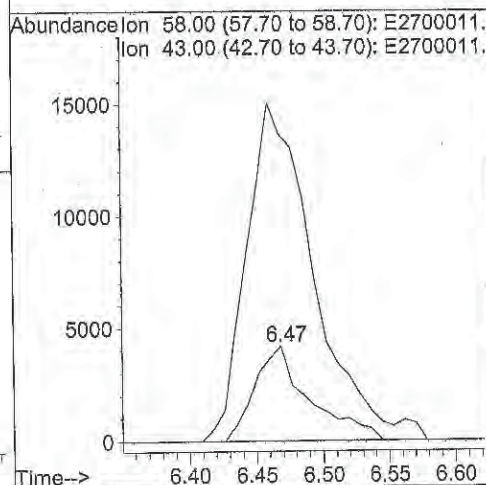
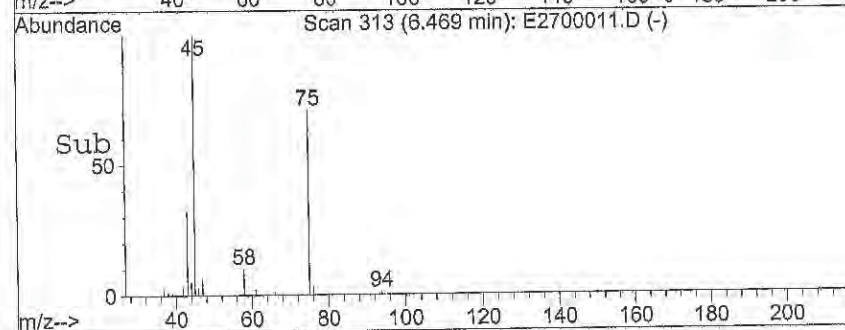
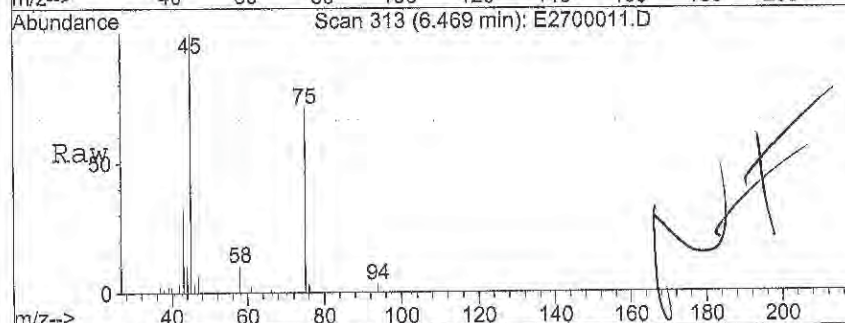
63 47.2 41.5 62.3





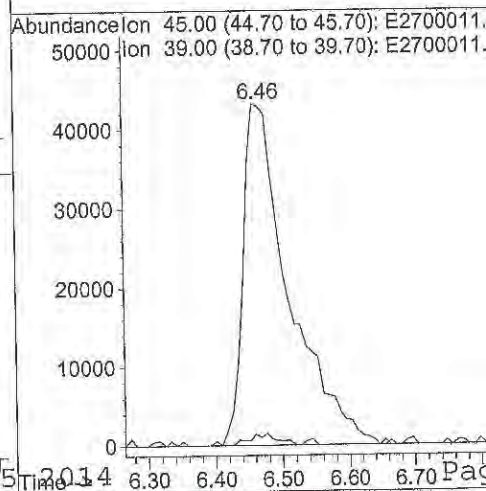
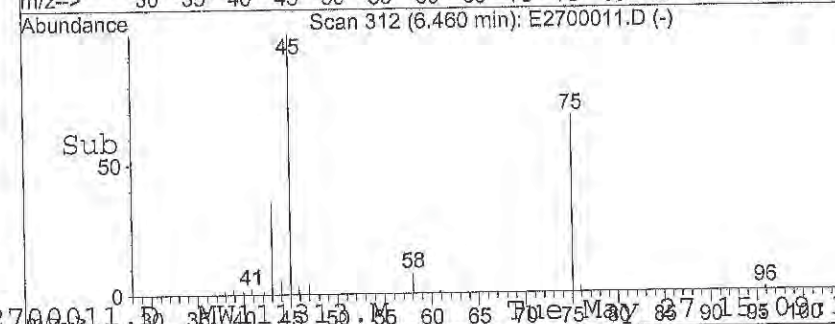
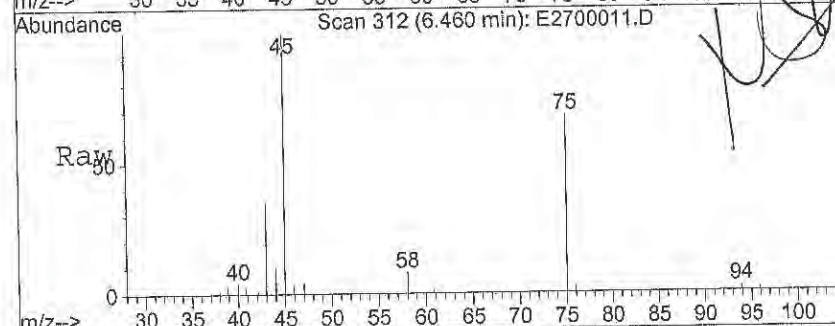
#11
 Acetone
 Concen: 14.16 ug/L
 RT: 6.47 min Scan# 313
 Delta R.T. 0.01 min
 Lab File: E2700011.D
 Acq: 27 May 2014 2:34 pm

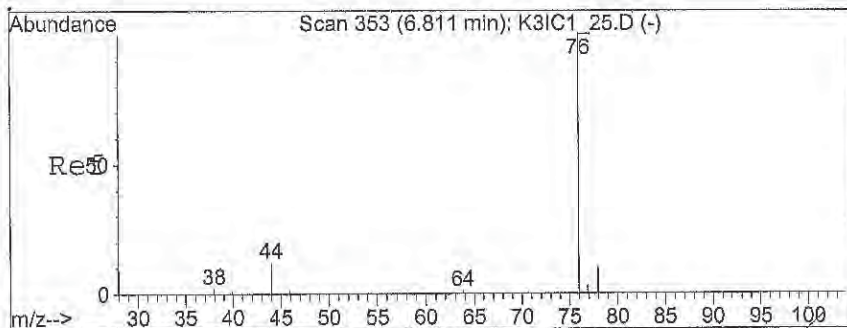
Tgt Ion: 58 Resp: 11841
 Ion Ratio Lower Upper
 58 100
 43 443.6 360.9 541.3



#12
 (IPA) Leak Check Compound
 Concen: 1011.11 ug/L
 RT: 6.46 min Scan# 312
 Delta R.T. -0.08 min
 Lab File: E2700011.D
 Acq: 27 May 2014 2:34 pm

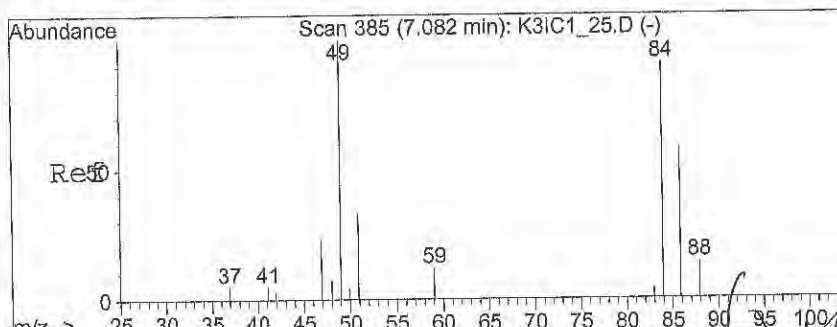
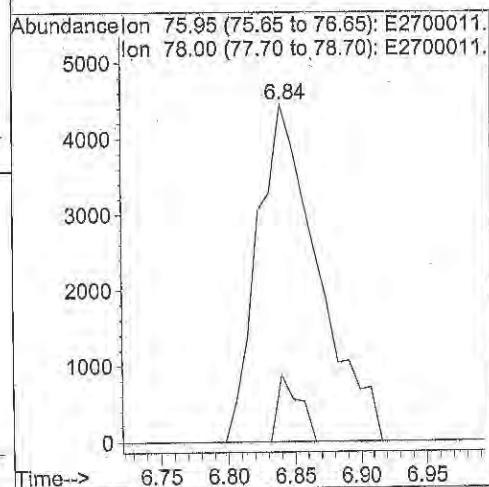
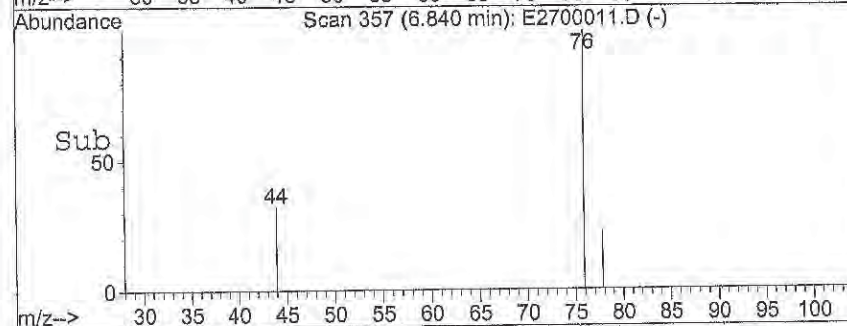
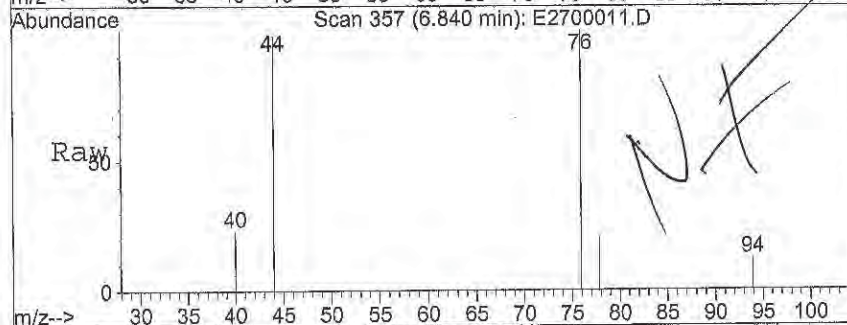
Tgt Ion: 45 Resp: 205852
 Ion Ratio Lower Upper
 45 100
 39 2.1 4.9 7.3#





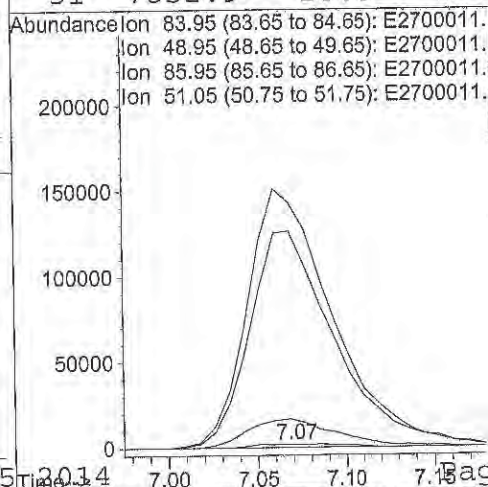
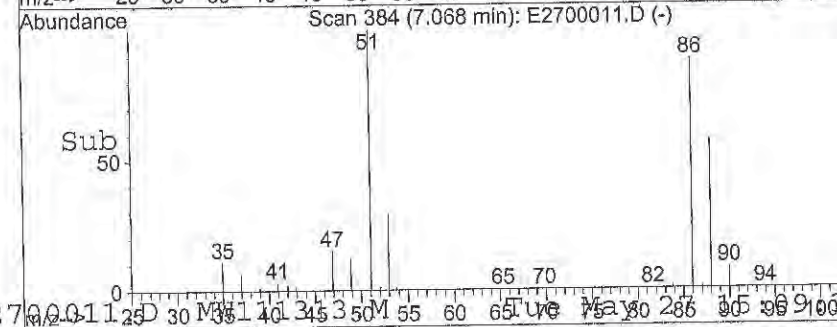
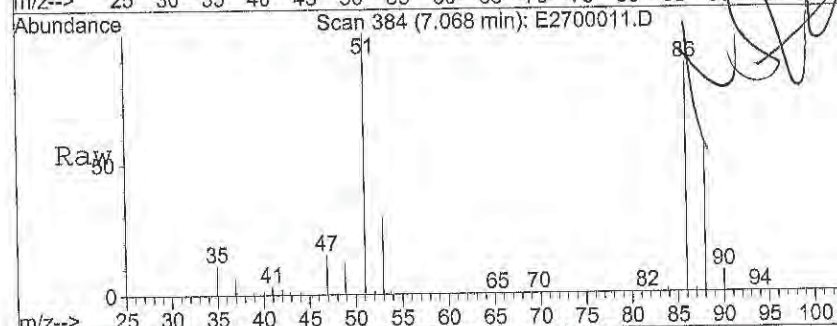
#13
Carbon disulfide
Concen: 0.99 ug/L
RT: 6.84 min Scan# 357
Delta R.T. 0.03 min
Lab File: E2700011.D
Acq: 27 May 2014 2:34 pm

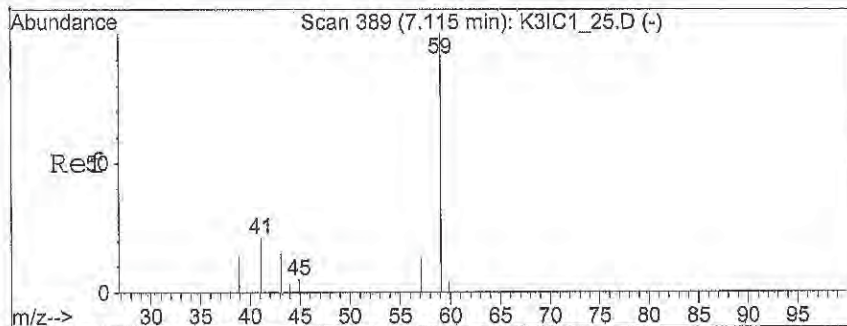
Tgt Ion: 76 Resp: 14009
Ion Ratio Lower Upper
76 100
78 7.1 7.0 10.4



#14
Methylene Chloride
Concen: 1.40 ug/L
RT: 7.07 min Scan# 384
Delta R.T. -0.01 min
Lab File: E2700011.D
Acq: 27 May 2014 2:34 pm

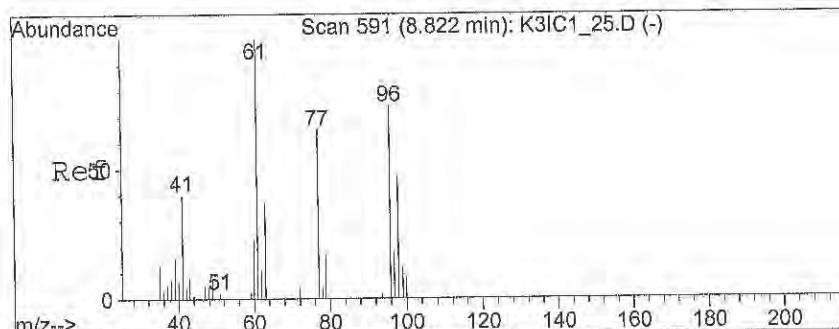
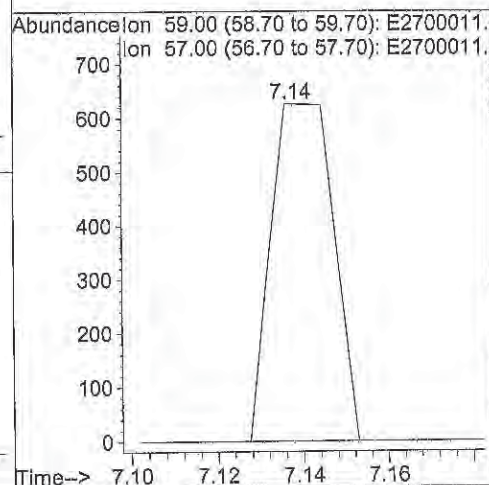
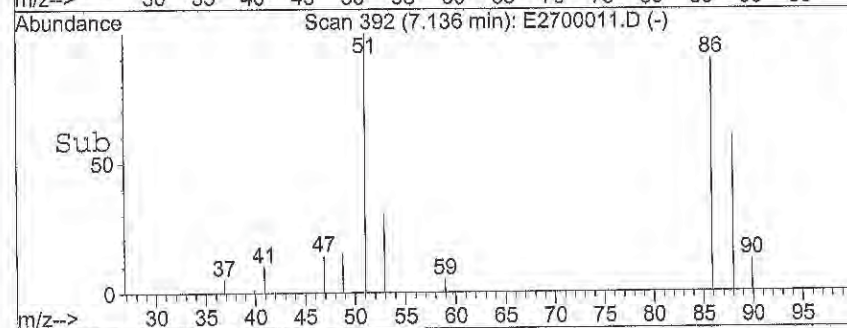
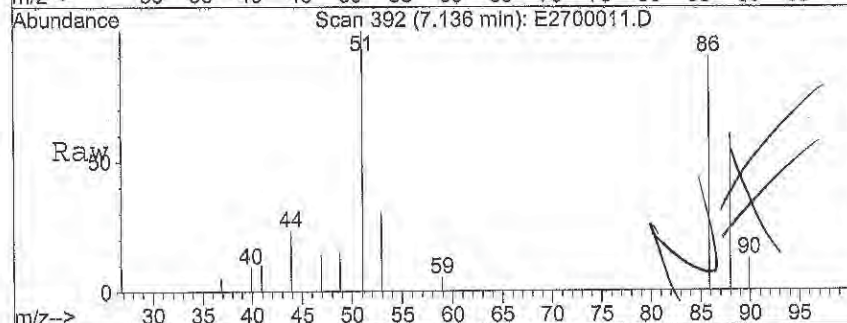
Tgt Ion: 84 Resp: 6505
Ion Ratio Lower Upper
84 100
49 887.1 89.8 134.6#
86 6516.1 51.1 76.7#
51 7852.9 28.5 42.7#





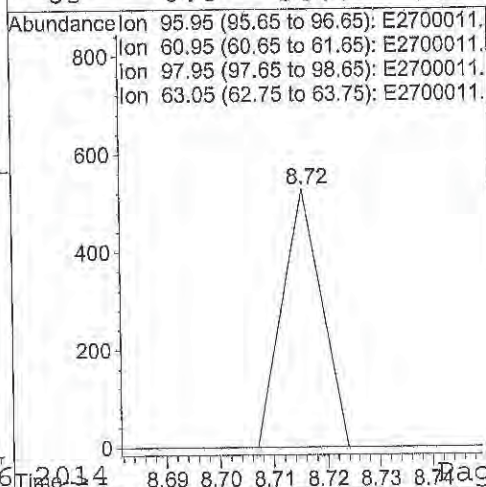
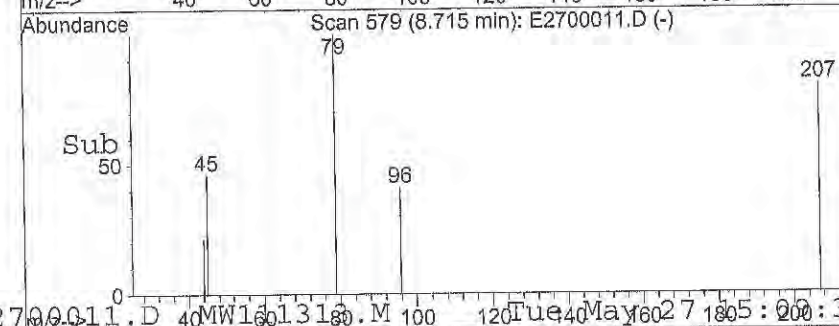
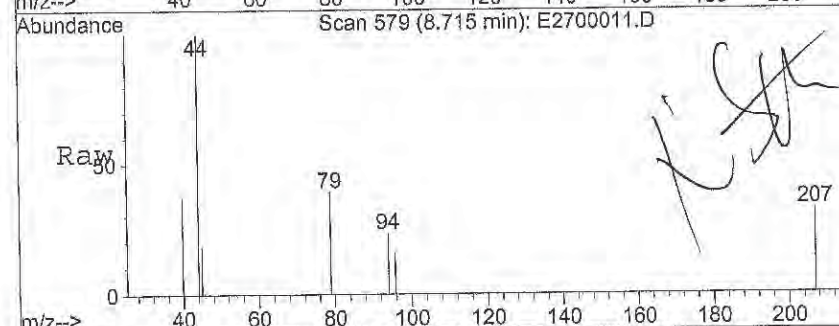
#15
 (TBA) tert-Butanol
 Concen: 2.19 ug/L
 RT: 7.14 min Scan# 392
 Delta R.T. 0.02 min
 Lab File: E2700011.D
 Acq: 27 May 2014 2:34 pm

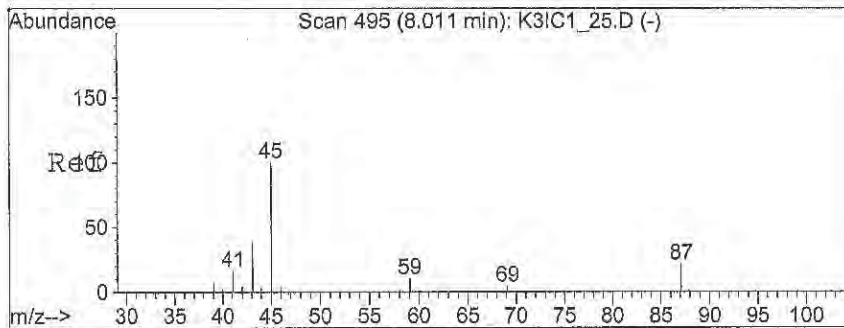
Tgt Ion: 59 Resp: 634
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#19
 cis-1,2-Dichloroethene
 Concen: 0.05 ug/L
 RT: 8.72 min Scan# 579
 Delta R.T. -0.11 min
 Lab File: E2700011.D
 Acq: 27 May 2014 2:34 pm

Tgt Ion: 96 Resp: 268
 Ion Ratio Lower Upper
 96 100
 61 0.0 110.3 165.5#
 98 0.0 49.8 74.6#
 63 0.0 36.7 55.1#





#22

(DIPE) Diisopropyl Ether

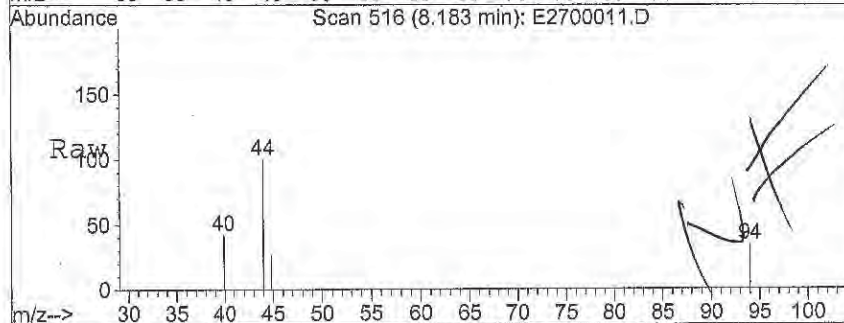
Concen: 0.02 ug/L

RT: 8.18 min Scan# 516

Delta R.T. 0.17 min

Lab File: E2700011.D

Acq: 27 May 2014 2:34 pm



Tgt Ion: 45 Resp: 255

Ion Ratio Lower Upper

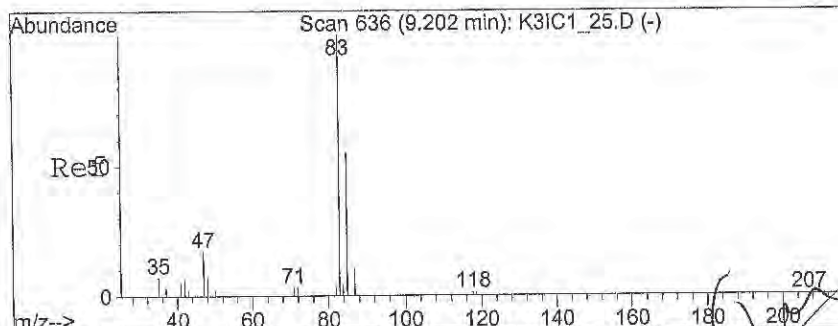
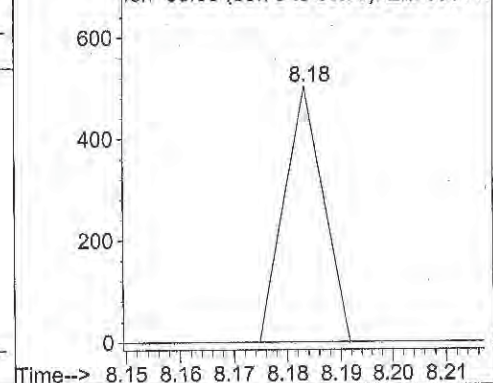
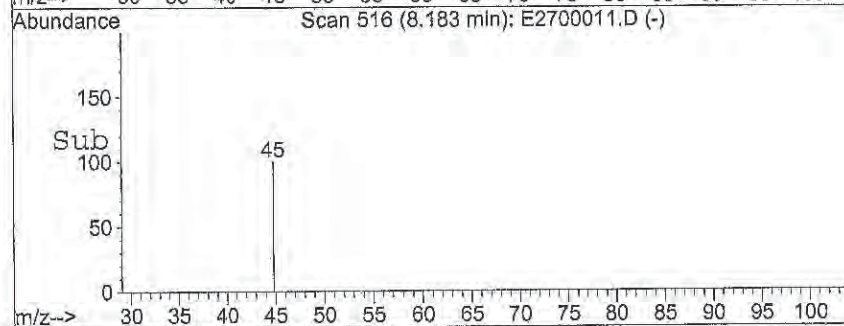
45 100

87 0.0 17.0 25.6#

43 0.0 30.5 45.7#

59 0.0 7.4 11.2#

Abundance Ion 45.00 (44.70 to 45.70): E2700011.
Ion 87.10 (86.80 to 87.80): E2700011.
Ion 43.05 (42.75 to 43.75): E2700011.
Ion 59.00 (58.70 to 59.70): E2700011.



#24

Chloroform

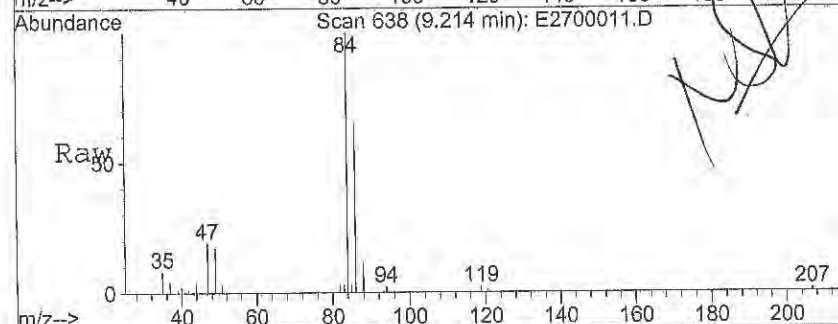
Concen: 0.10 ug/L

RT: 9.21 min Scan# 638

Delta R.T. 0.01 min

Lab File: E2700011.D

Acq: 27 May 2014 2:34 pm



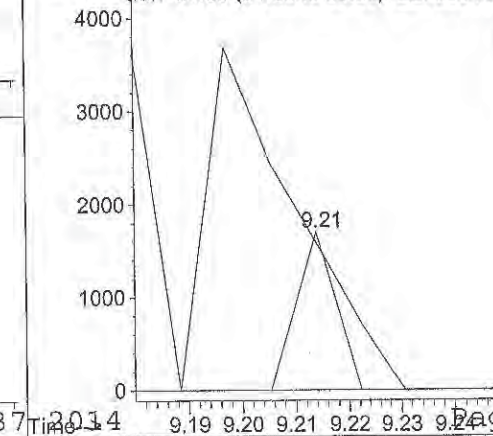
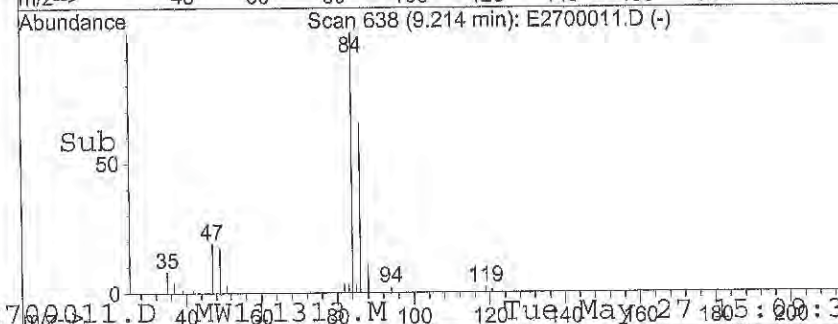
Tgt Ion: 83 Resp: 858

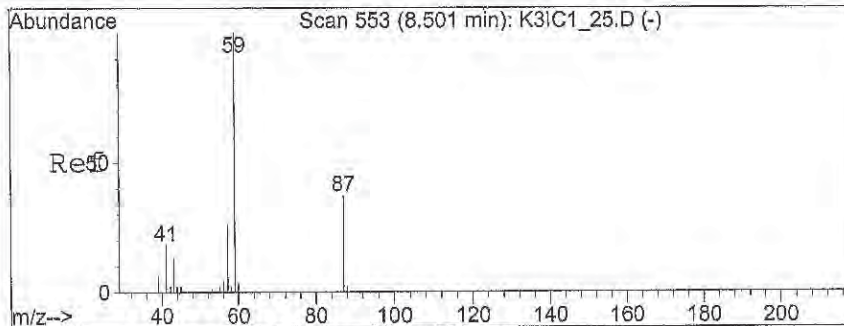
Ion Ratio Lower Upper

83 100

85 496.6 51.8 77.6#

Abundance Ion 83.00 (82.70 to 83.70): E2700011.
Ion 84.95 (84.65 to 85.65): E2700011.





#25

(ETBE) 2-ethoxy 2-methyl propan

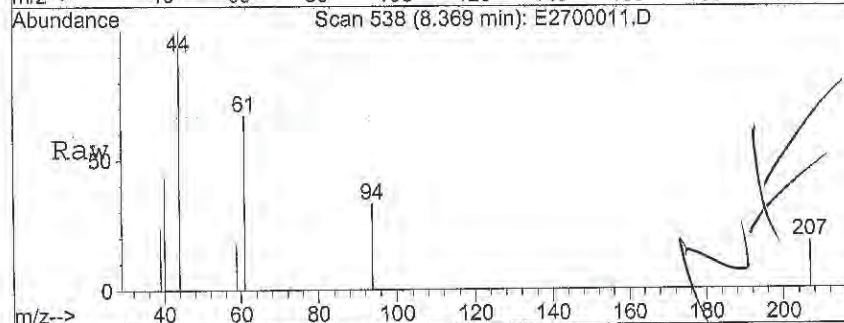
Concen: 0.02 ug/L

RT: 8.37 min Scan# 538

Delta R.T. -0.13 min

Lab File: E2700011.D

Acq: 27 May 2014 2:34 pm



Tgt Ion: 59 Resp: 257

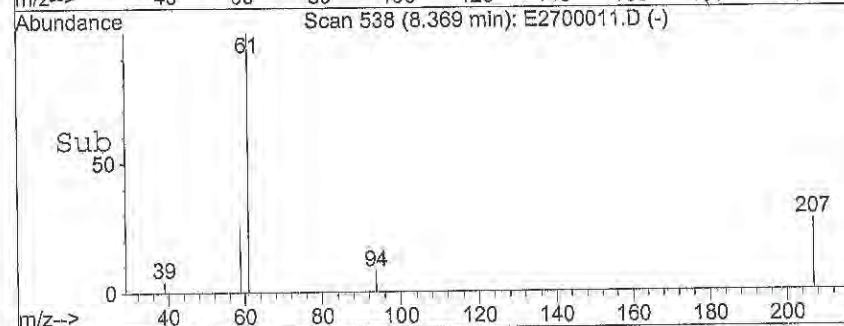
Ion Ratio Lower Upper

59 100

87 0.0 27.8 41.8#

57 0.0 19.8 29.6#

77 0.0 0.0 0.0



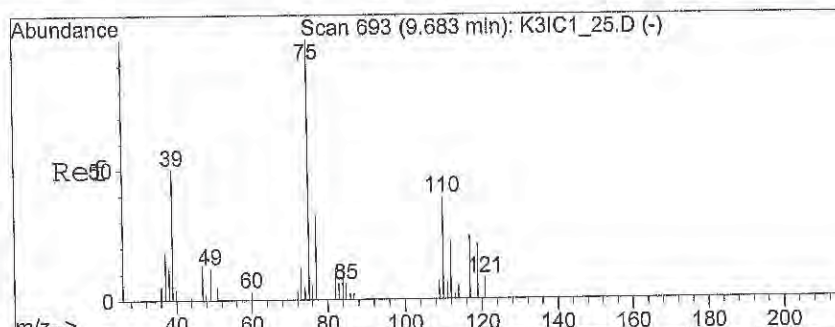
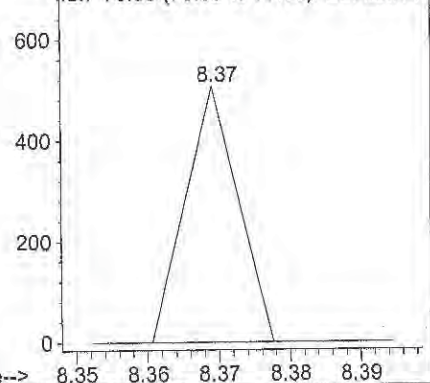
Abundance

Ion 59.00 (58.70 to 59.70): E2700011.

Ion 87.10 (86.80 to 87.80): E2700011.

Ion 57.00 (56.70 to 57.70): E2700011.

Ion 76.95 (76.65 to 77.65): E2700011.



#29

1,1-Dichloropropene

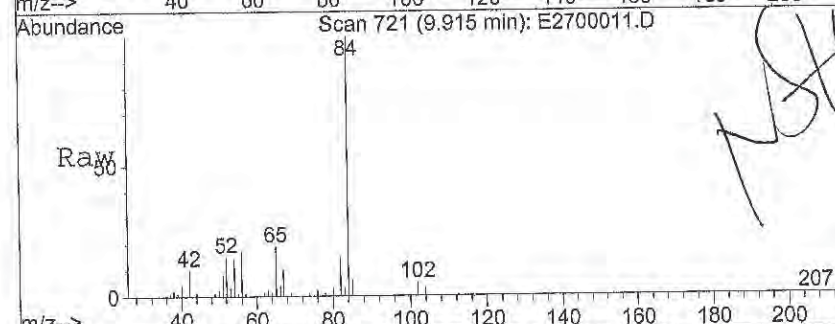
Concen: 0.09 ug/L

RT: 9.91 min Scan# 721

Delta R.T. 0.23 min

Lab File: E2700011.D

Acq: 27 May 2014 2:34 pm



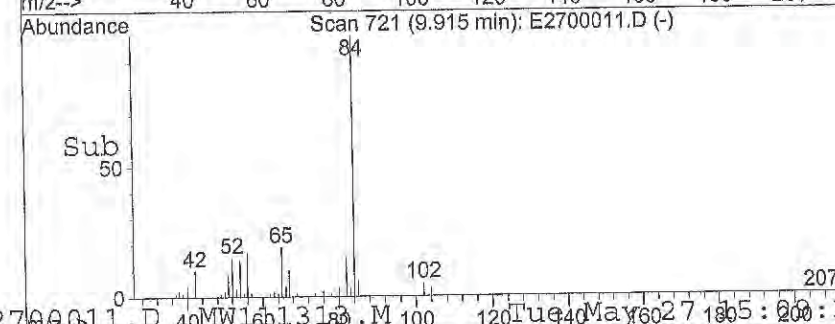
Tgt Ion: 75 Resp: 620

Ion Ratio Lower Upper

75 100

110 0.0 29.0 43.6#

77 398.7 25.0 37.4#

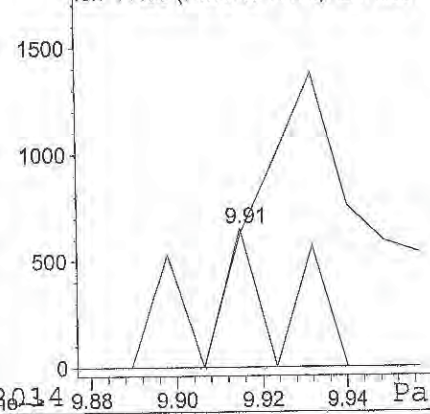


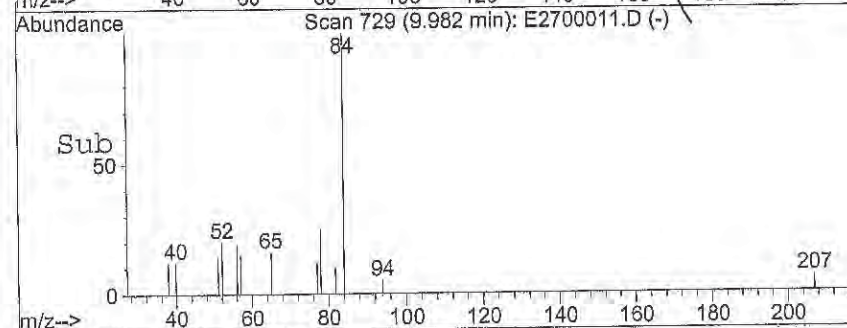
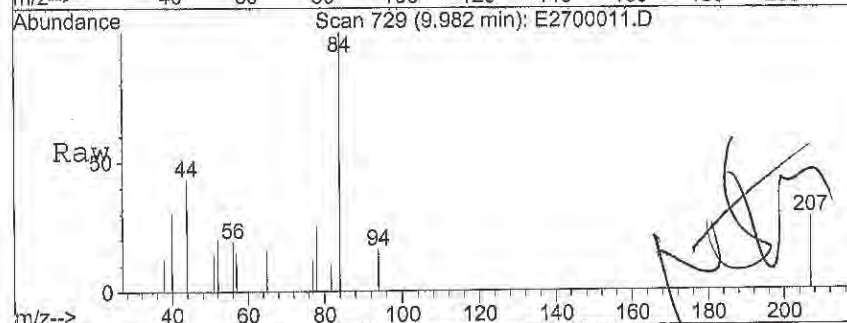
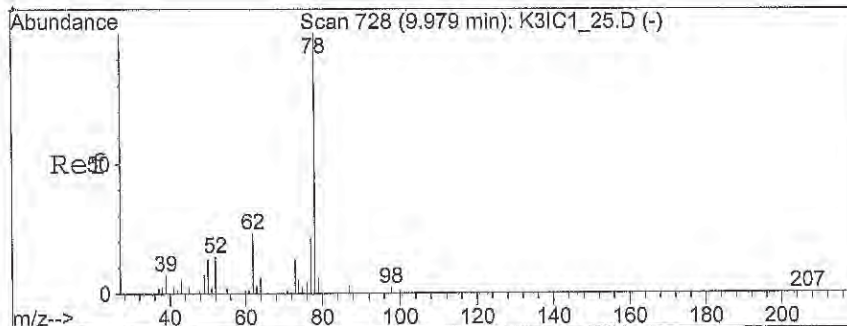
Abundance

Ion 75.05 (74.75 to 75.75): E2700011.

Ion 110.05 (109.75 to 110.75): E2700011.

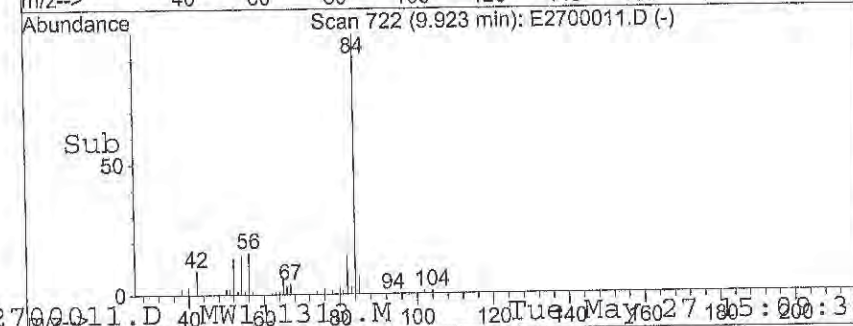
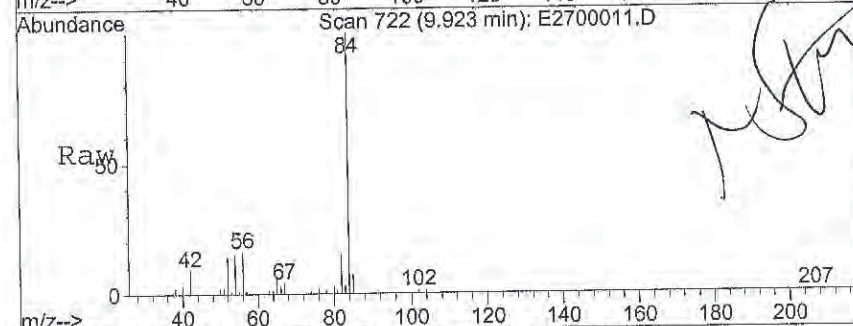
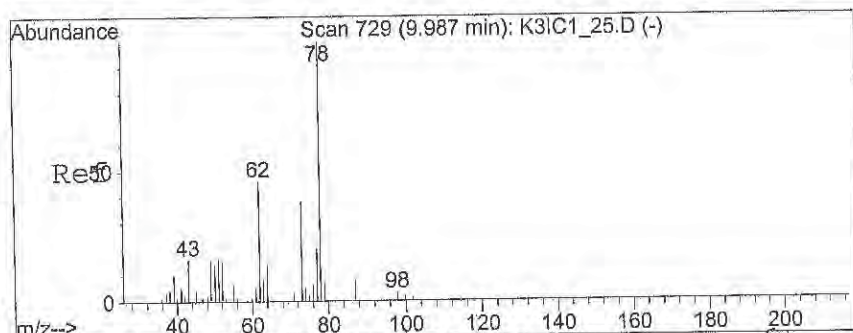
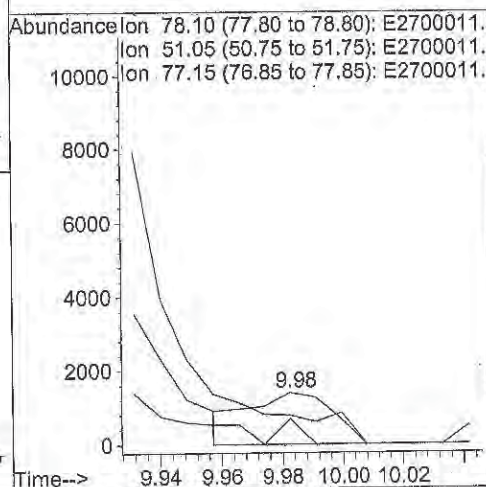
Ion 77.05 (76.75 to 77.75): E2700011.





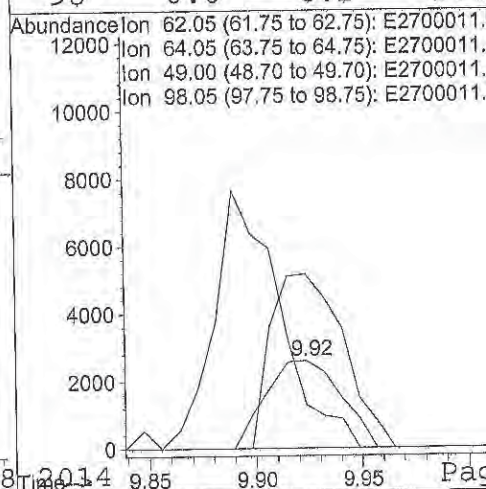
#31
Benzene
Concen: 0.17 ug/L
RT: 9.98 min Scan# 729
Delta R.T. 0.00 min
Lab File: E2700011.D
Acq: 27 May 2014 2:34 pm

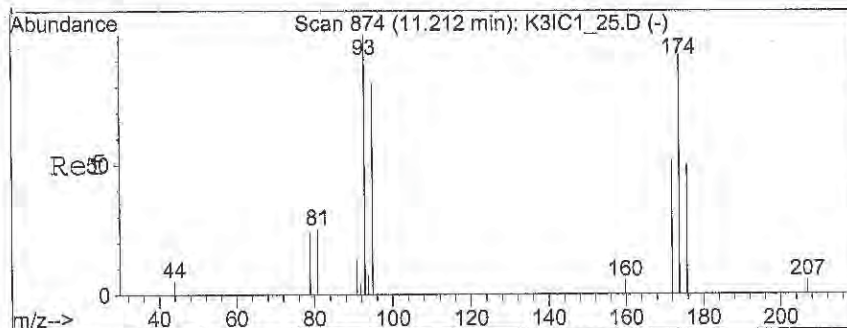
Tgt Ion: 78 Resp: 2686
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 13.0 16.6 24.8#



#32
1,2-Dichloroethane
Concen: 1.13 ug/L
RT: 9.92 min Scan# 722
Delta R.T. -0.06 min
Lab File: E2700011.D
Acq: 27 May 2014 2:34 pm

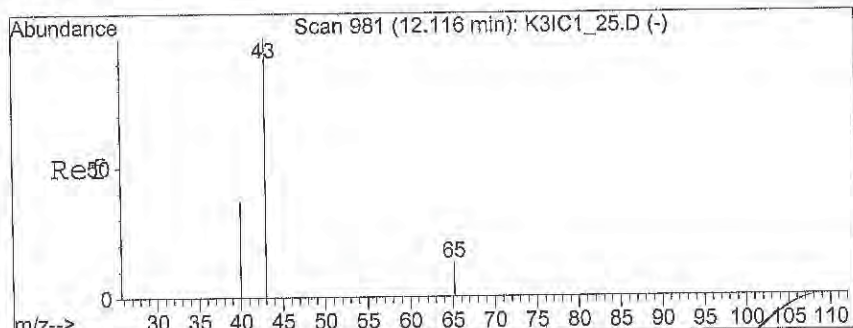
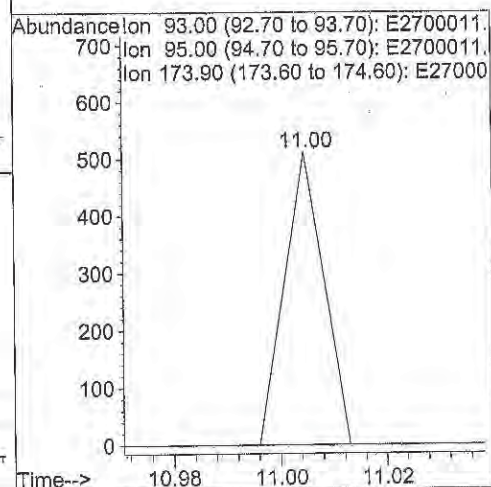
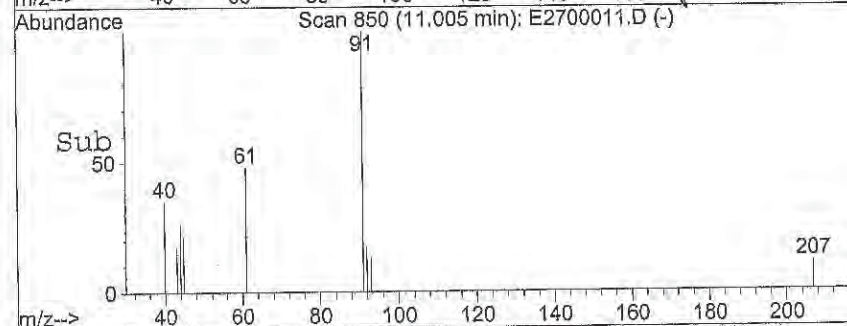
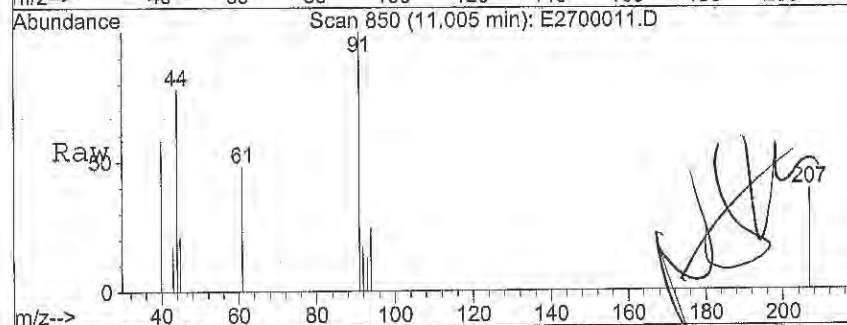
Tgt Ion: 62 Resp: 6374
Ion Ratio Lower Upper
62 100
64 192.5 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#





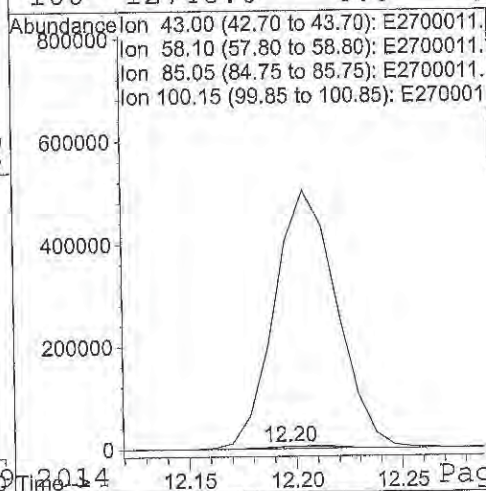
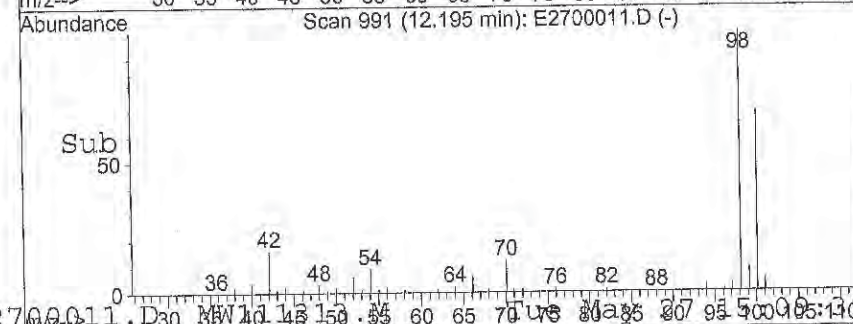
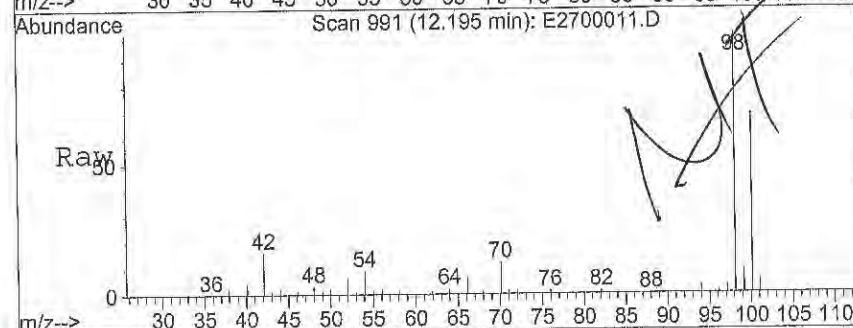
#35
 Dibromomethane
 Concen: 0.09 ug/L
 RT: 11.00 min Scan# 850
 Delta R.T. -0.21 min
 Lab File: E2700011.D
 Acq: 27 May 2014 2:34 pm

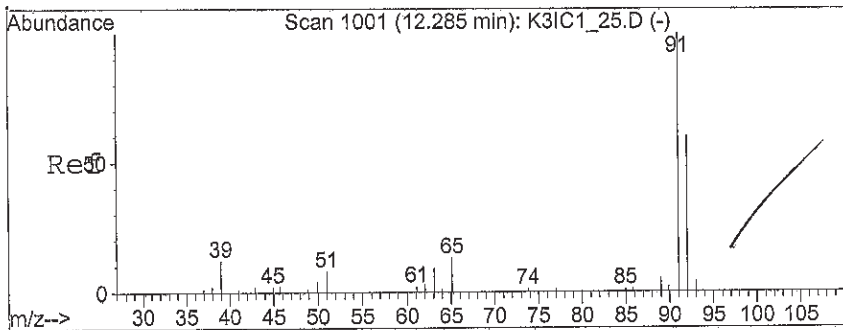
Tgt Ion: 93 Resp: 259
 Ion Ratio Lower Upper
 93 100
 95 0.0 66.2 99.2#
 174 0.0 75.5 113.3#



#40
 (MIBK) 4-Methyl-2-Pentanone
 Concen: 3.10 ug/L
 RT: 12.20 min Scan# 991
 Delta R.T. 0.08 min
 Lab File: E2700011.D
 Acq: 27 May 2014 2:34 pm

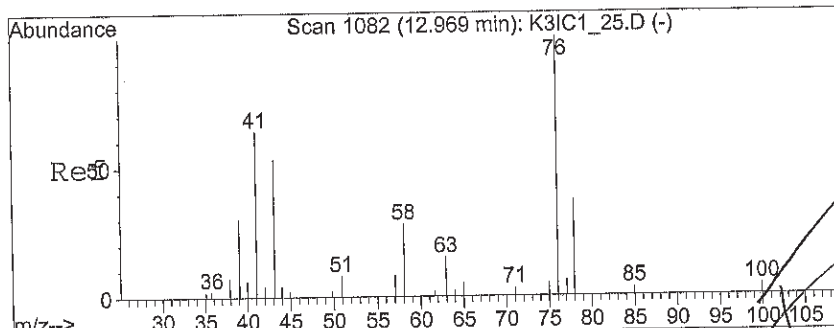
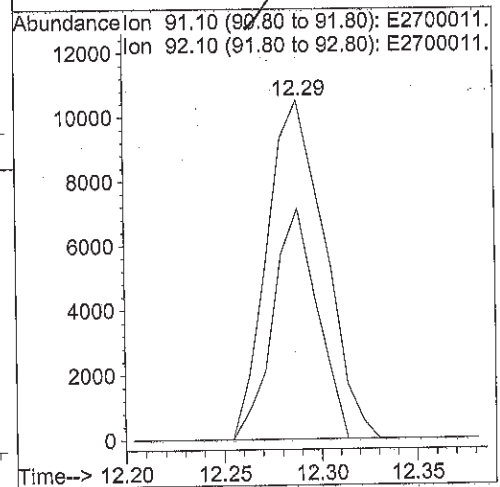
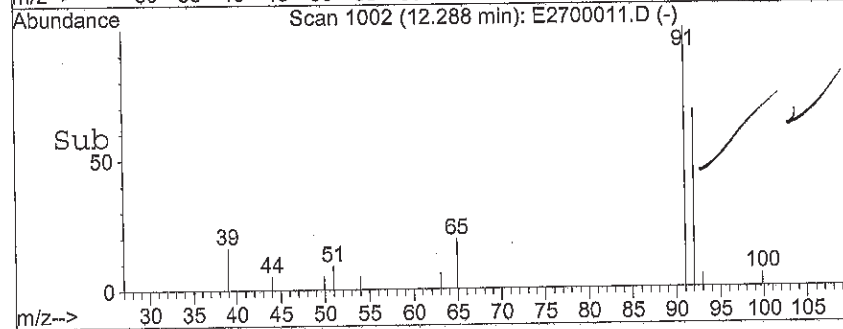
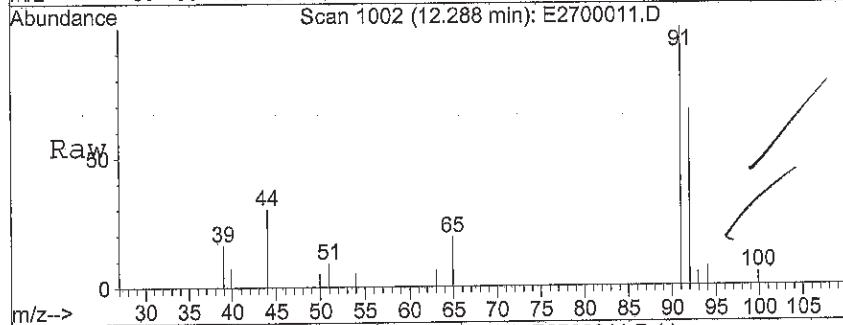
Tgt Ion: 43 Resp: 8060
 Ion Ratio Lower Upper
 43 100
 58 135.7 0.0 0.0#
 85 0.0 0.0 0.0
 100 12746.0 0.0 0.0#





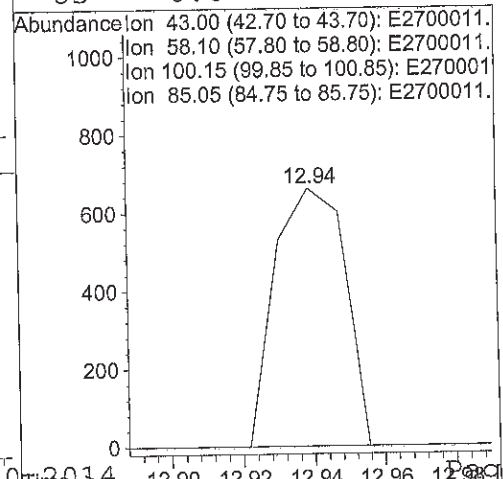
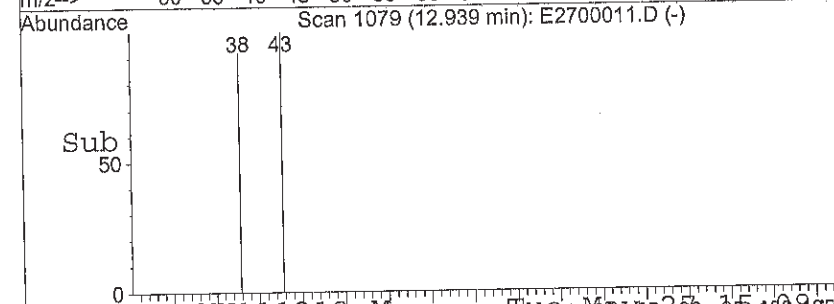
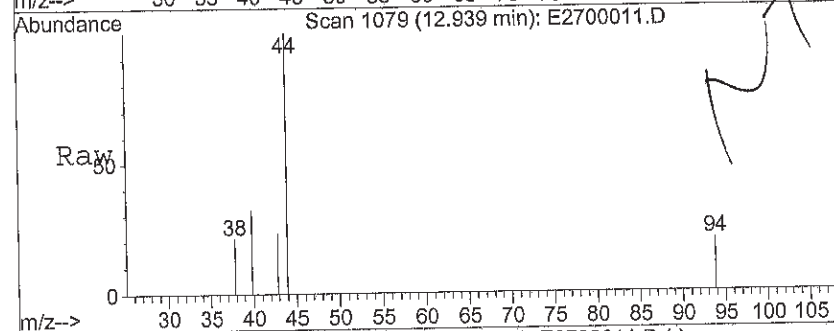
#41
Toluene
Concen: 1.22 ug/L
RT: 12.29 min Scan# 1002
Delta R.T. 0.00 min
Lab File: E2700011.D
Acq: 27 May 2014 2:34 pm

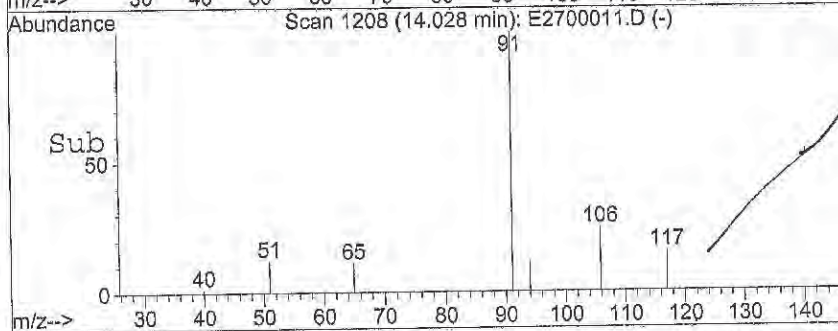
Tgt Ion: 91 Resp: 21574
Ion Ratio Lower Upper
91 100
92 52.5 47.4 71.0



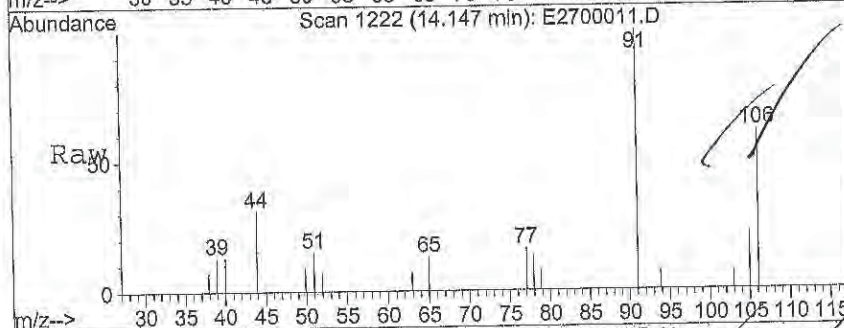
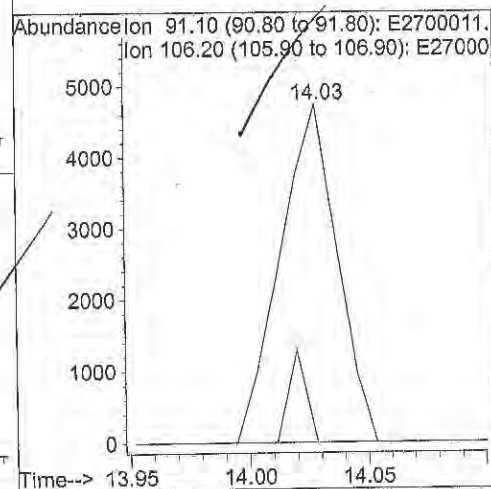
#46
2-Hexanone
Concen: 0.32 ug/L
RT: 12.94 min Scan# 1079
Delta R.T. -0.03 min
Lab File: E2700011.D
Acq: 27 May 2014 2:34 pm

Tgt Ion: 43 Resp: 908
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#

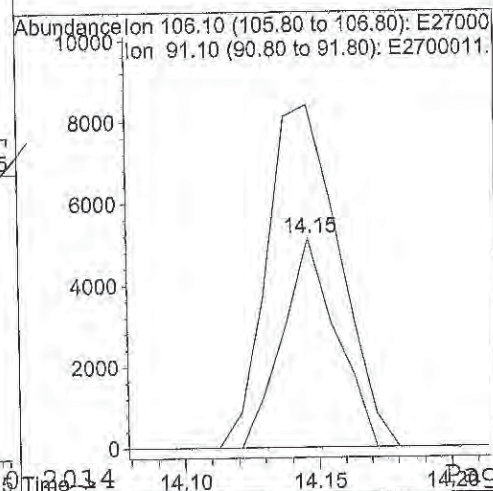


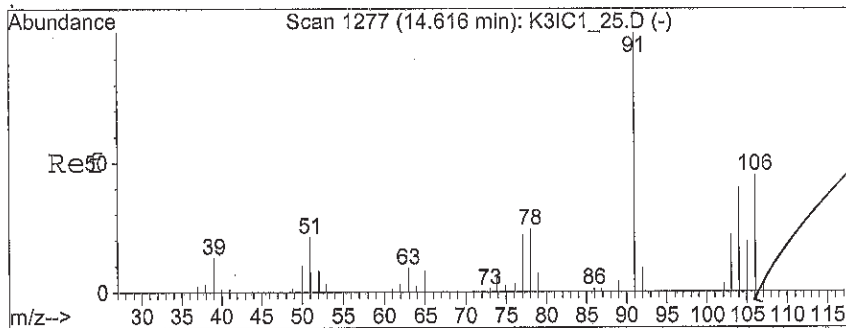


Tgt	Ion: 91	Resp:	7835
Ion	Ratio	Lower	Upper
91	100		
106	8.3	23.5	35.3#



Tgt	Ion:106	Resp:	7224
Ion	Ratio	Lower	Upper
106	100		
91	218.6	177.1	265.7





#53

o-Xylene

Concen: 0.51 ug/L

RT: 14.62 min Scan# 1278

Delta R.T. 0.00 min

Lab File: E2700011.D

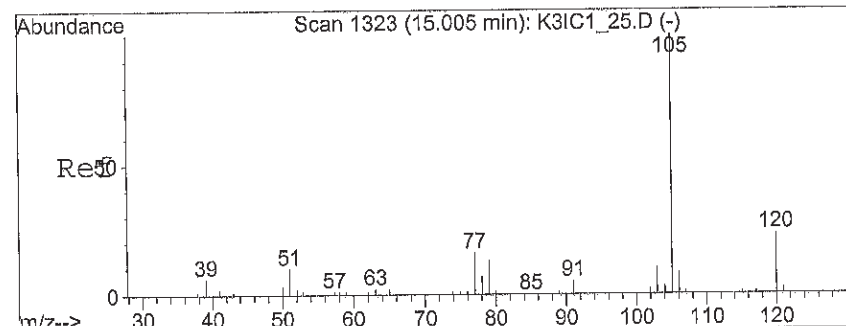
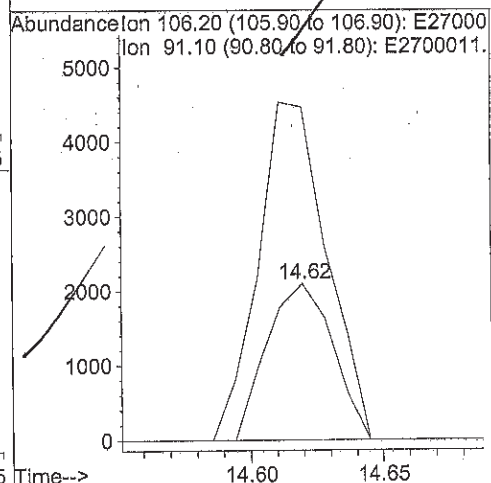
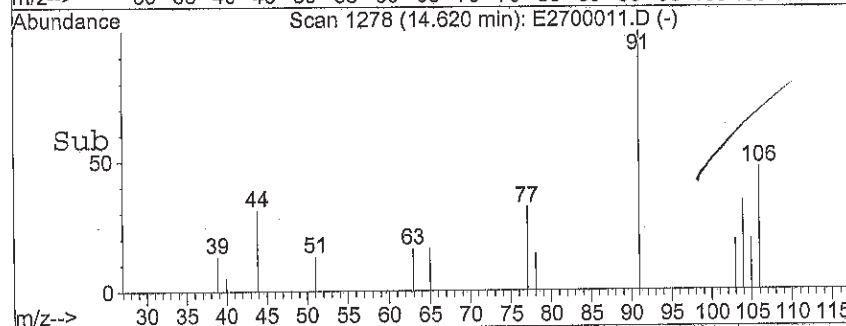
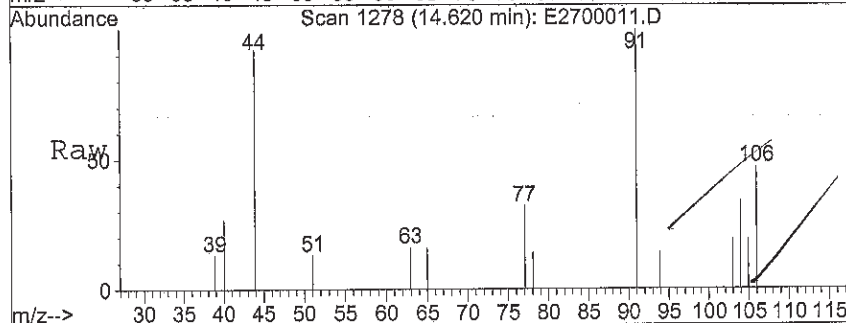
Acq: 27 May 2014 2:34 pm

Tgt Ion:106 Resp: 3589

Ion Ratio Lower Upper

106 100

91 225.8 179.0 268.6



#56

Isopropylbenzene

Concen: 0.01 ug/L

RT: 15.00 min Scan# 1323

Delta R.T. -0.00 min

Lab File: E2700011.D

Acq: 27 May 2014 2:34 pm

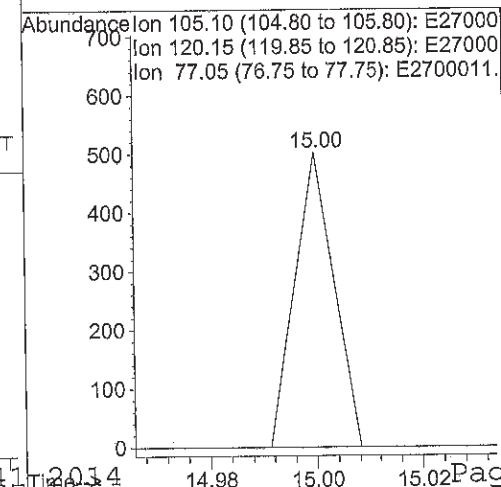
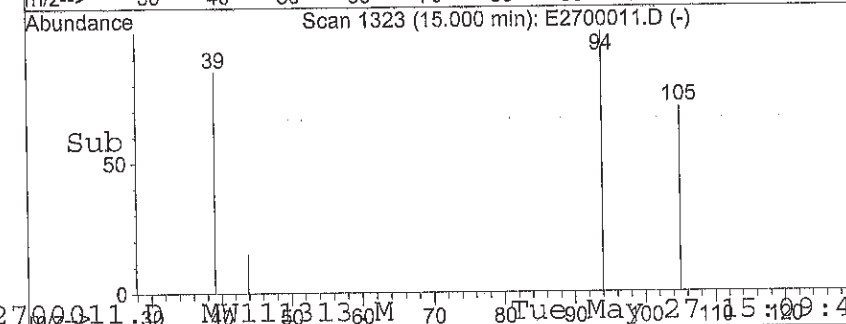
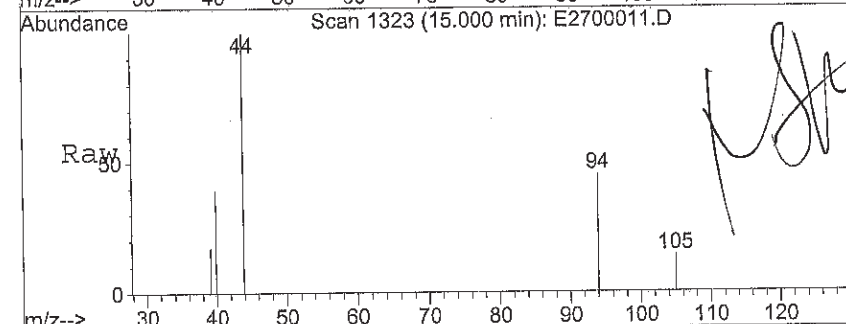
Tgt Ion:105 Resp: 254

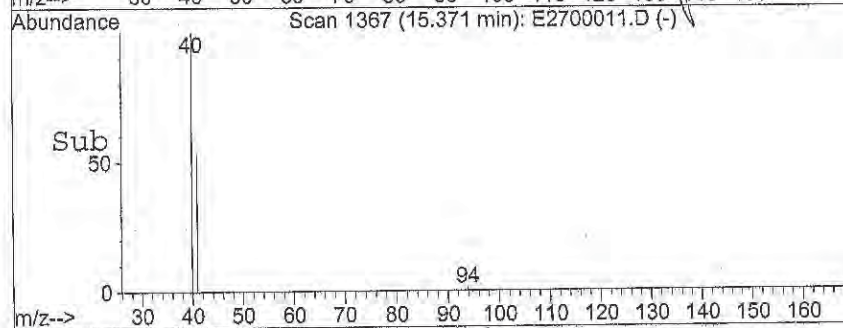
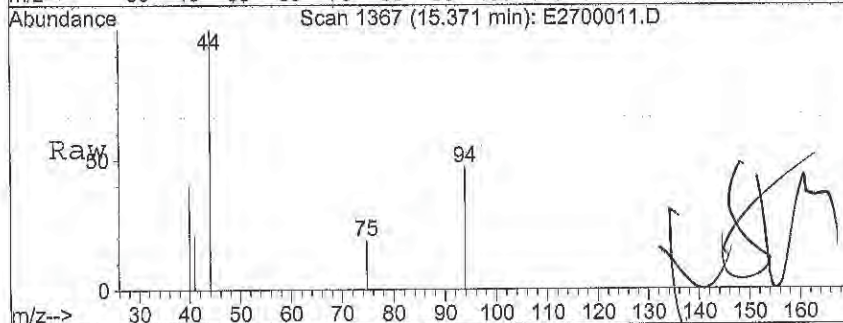
Ion Ratio Lower Upper

105 100

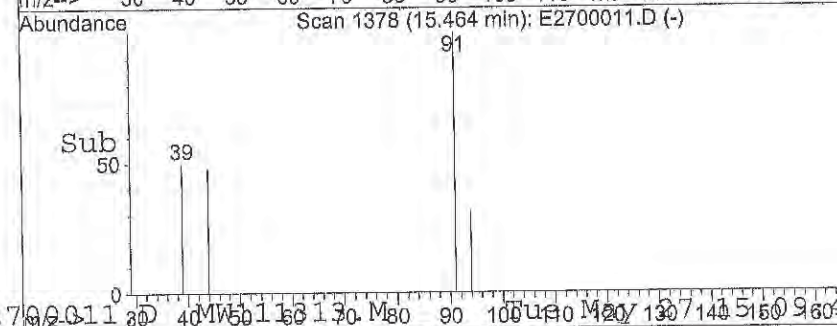
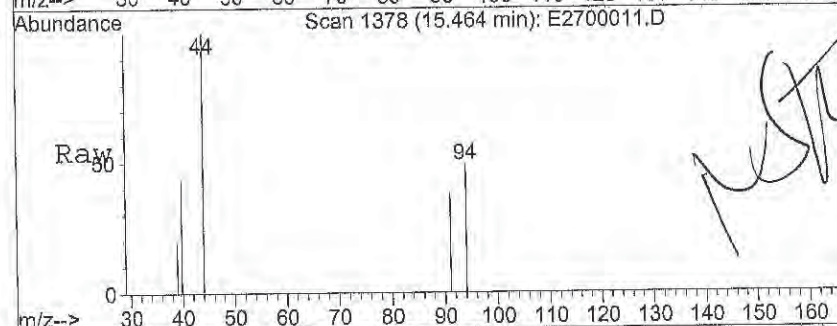
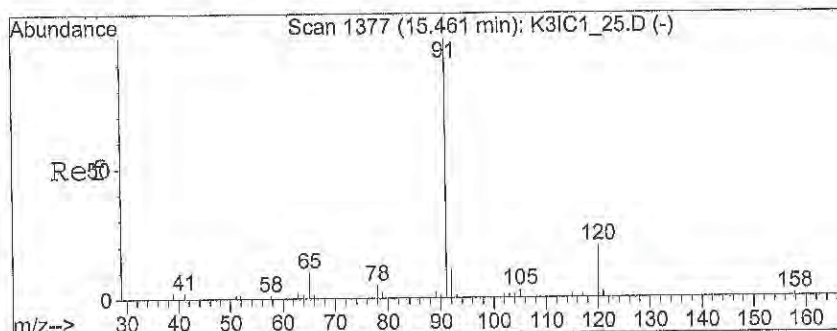
120 0.0 19.3 28.9#

77 0.0 13.1 19.7#

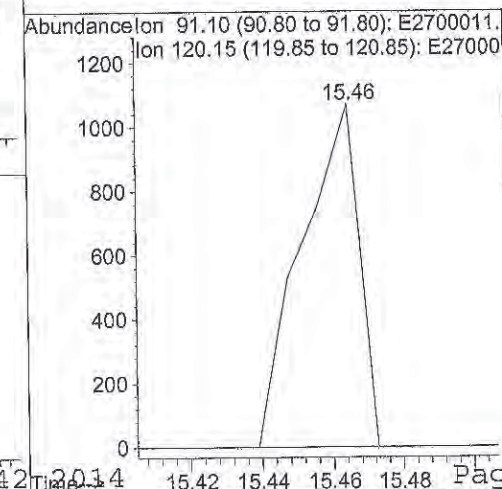


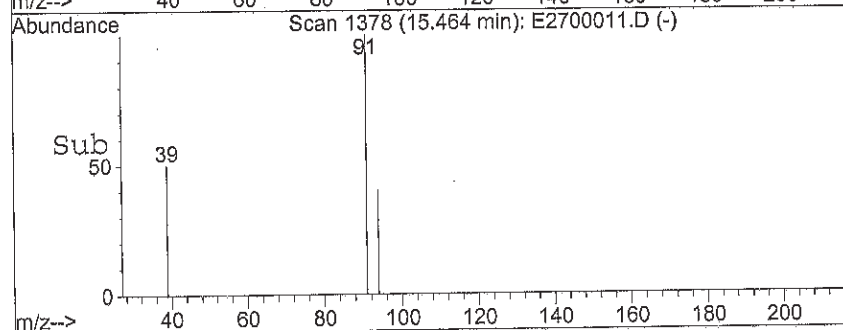
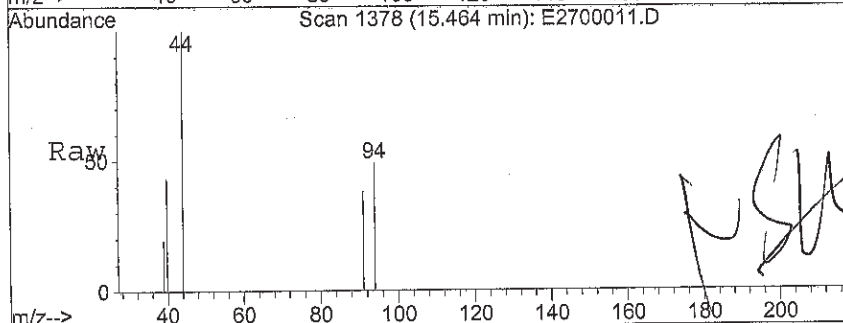


77	0.0	31.2	46.8#
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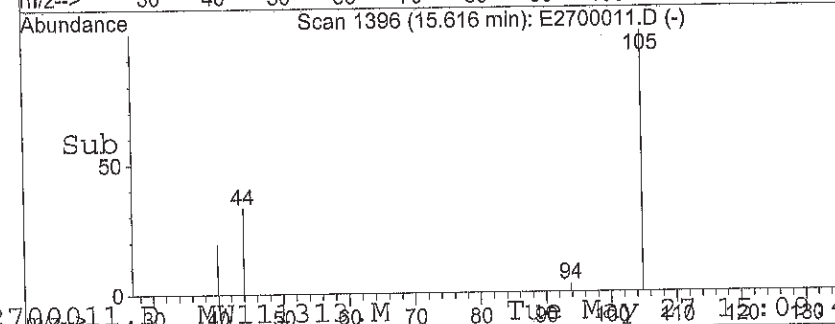
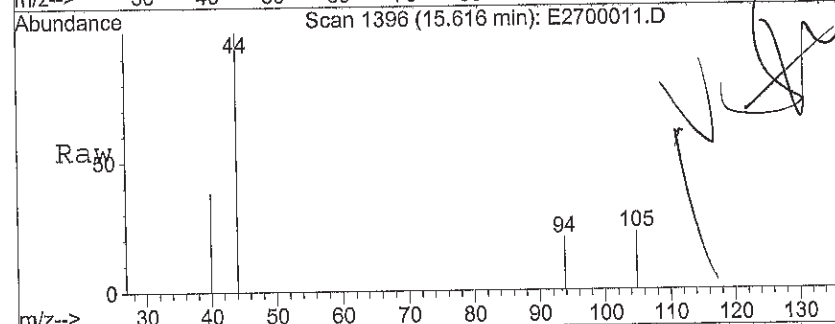
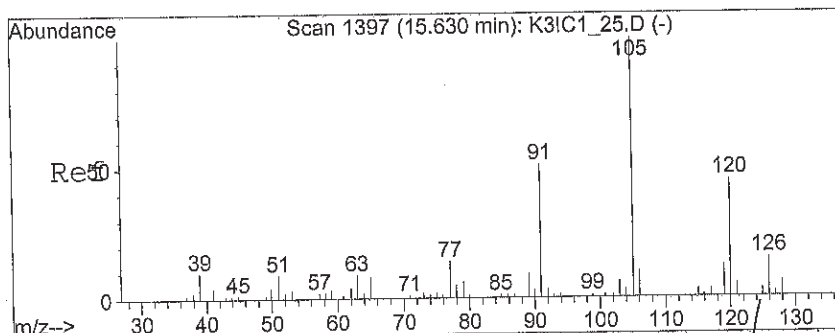
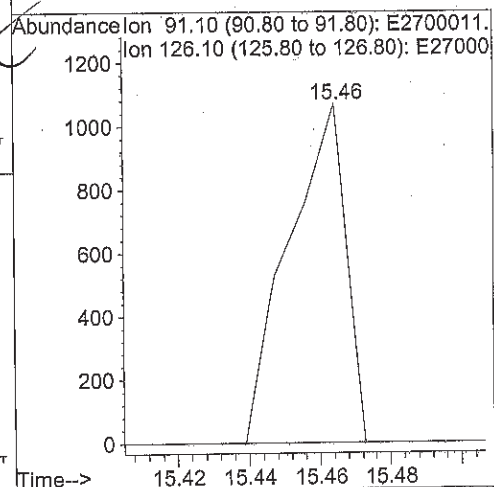


120	0.0	16.1	24.1#
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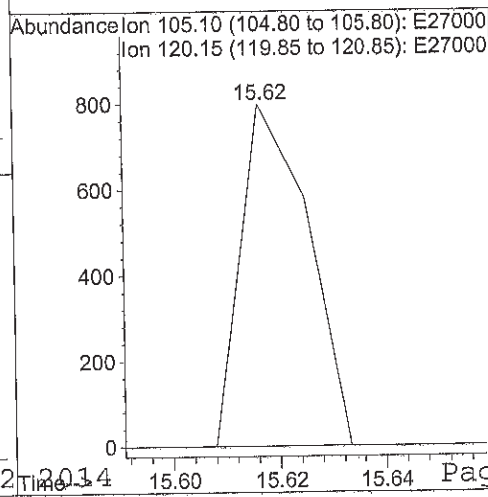


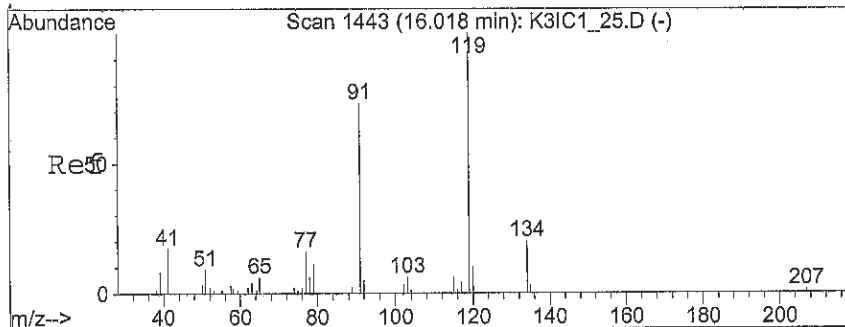


```
Tgt Ion: 91 Resp: 1192
Ion Ratio Lower Upper
91 100
126 0.0 24.0 36.0#
```



Tgt	Ion:105	Resp:	699
Ion	Ratio	Lower	Upper
105	100		
120	0.0	36.4	54.6#





#66

tert-Butylbenzene

Concen: 0.03 ug/L

RT: 16.06 min Scan# 1449

Delta R.T. 0.05 min

Lab File: E2700011.D

Acq: 27 May 2014 2:34 pm

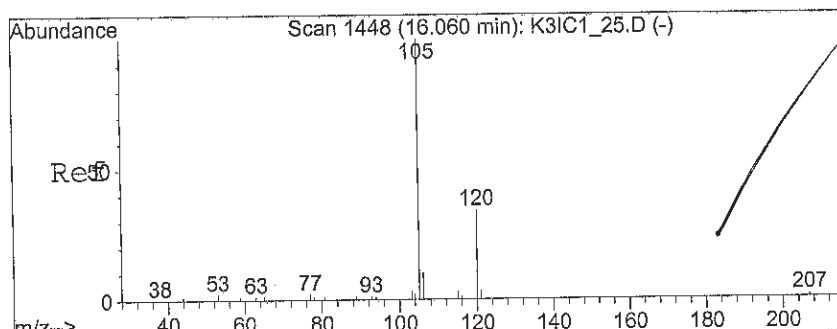
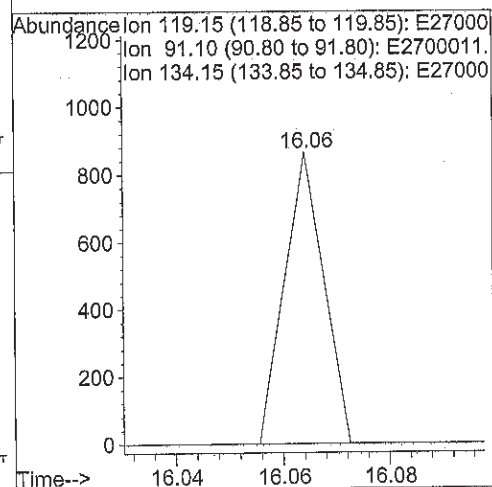
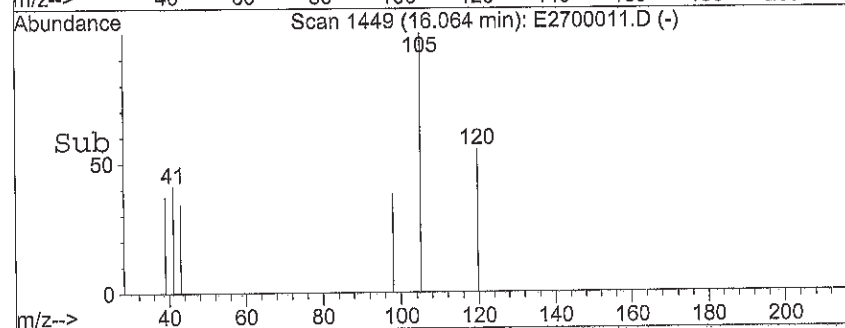
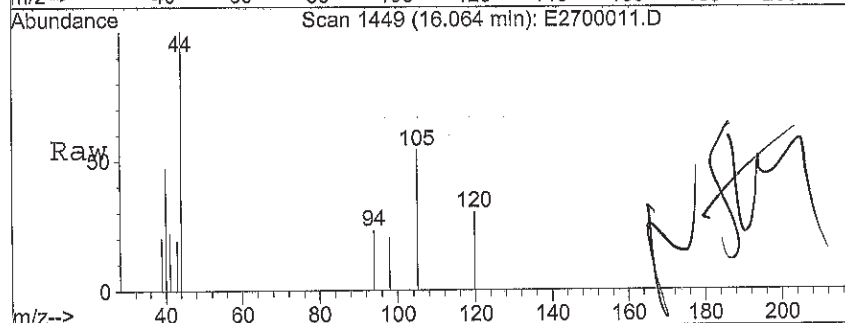
Tgt Ion:119 Resp: 438

Ion Ratio Lower Upper

119 100

91 0.0 56.3 84.5#

134 0.0 16.1 24.1#



#67

1,2,4-Trimethylbenzene

Concen: 0.19 ug/L

RT: 16.06 min Scan# 1448

Delta R.T. -0.00 min

Lab File: E2700011.D

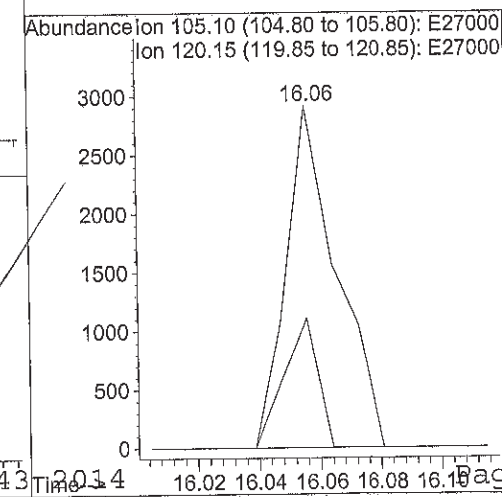
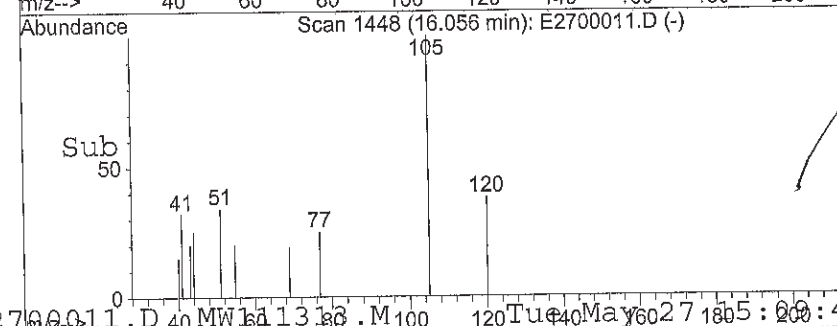
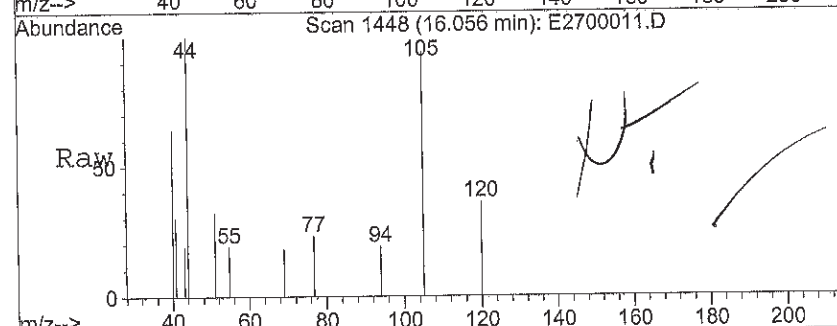
Acq: 27 May 2014 2:34 pm

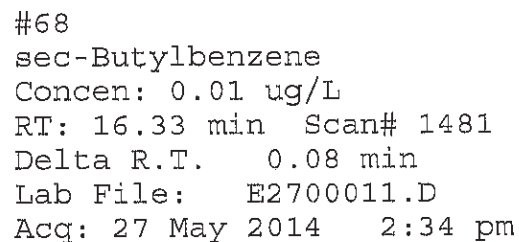
Tgt Ion:105 Resp: 3346

Ion Ratio Lower Upper

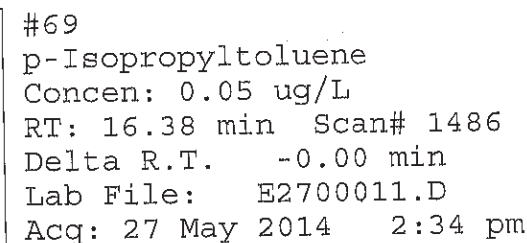
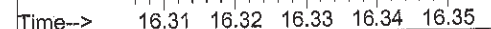
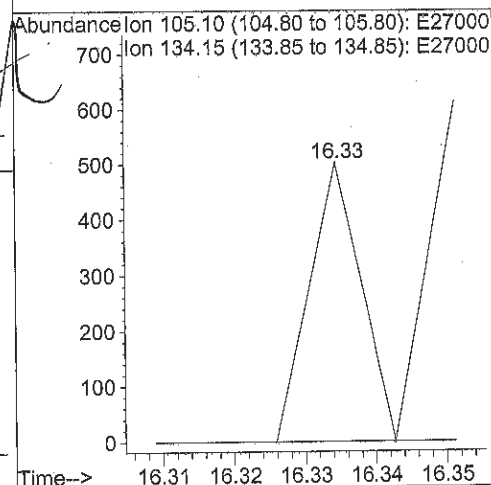
105 100

120 25.3 33.8 50.8#

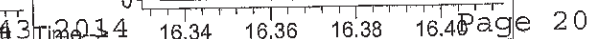
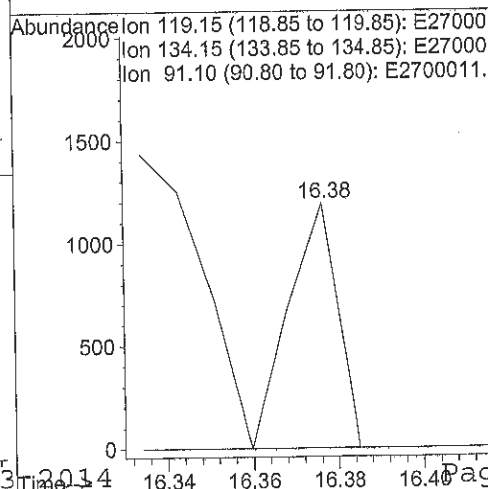




Tgt	Ion:105	Resp:	254
Ion	Ratio	Lower	Upper
105	100		
134	0.0	13.0	19.6#



Tgt	Ion:119	Resp:	950
Ion	Ratio	Lower	Upper
119	100		
134	0.0	17.4	26.2#
91	0.0	19.6	29.4#



Data File : C:\HPCHEM\1\DATA\052714L3\E2700011.D

Vial: 2

Acq On : 27 May 2014 2:34 pm

Operator: DN

Sample : 3E42701-08

Inst : GC/MS Ins

Misc : 100cc SVL-513-SA5D-SV-15.5-16.5

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 15:11 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1694263	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.92	117	1299834	12.50	ug/L	0.00
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	693994	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	481941	10.94	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	87.52%
3) Chloroform-d (SU6)	9.18	84	737747	11.67	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	93.36%
4) Methylene Chloride-d2 (SU5)	7.07	86	423594	11.46	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	91.68%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	462116	15.35	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	122.80%
6) Benzene-d6 (SU7)	9.92	84	1415226	10.64	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	85.12%
8) Toluene-d8 (SU3)	12.20	98	1510269	12.25	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	98.00%
9) 4-Bromofluorobenzene (SU4)	15.22	95	709259	13.93	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	111.44%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700011.D SS072713.M

Tue May 27 15:11:01 2014

Page 1

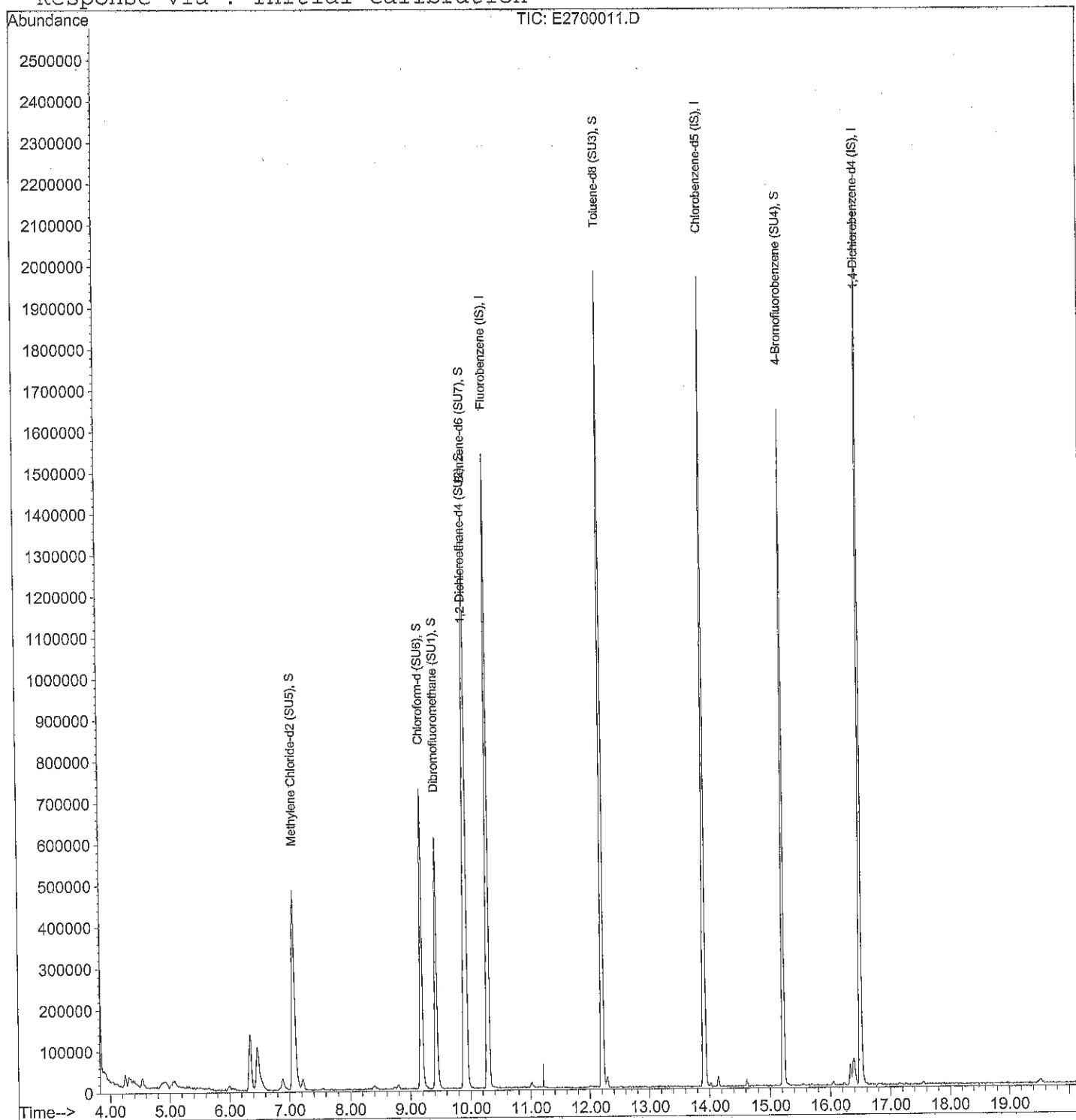
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700011.D
Acq On : 27 May 2014 2:34 pm
Sample : 3E42701-08
Misc : 100cc SVL-513-SA5D-SV-15.5-16.5
MS Integration Params: rteint.p
Quant Time: May 27 15:11 19114

Vial: 2
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
Last Update : Mon Nov 18 10:31:39 2013
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E2700012.D
 Acq On : 27 May 2014 3:05 pm
 Sample : 3E42701-09
 Misc : 100cc SVL-512-SA5D-SV-5.0-6.0
 MS Integration Params: rteint.p
 Quant Time: May 27 15:29 19114

Vial: 3
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1679743	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1298736	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	682899	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	467074	11.15	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	89.20%
28) 1,2-Dichloroethane-d4 (SU2)	9.89	65	464879	11.67	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	93.36%
39) Toluene-d8 (SU3)	12.21	98	1463111	12.08	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.64%
58) 4-Bromofluorobenzene (SU4)	15.22	95	714057	13.44	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	107.52%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	4.41	50	4823	0.49	ug/L	55
6) Bromomethane	5.12	96	262	-1.64	ug/L	1
7) Chloroethane	5.05	64	2826	2.71	ug/L	95
9) (F113) 1,1,2-Trichloro-tri	6.35	151	17555	5.32	ug/L	98
11) Acetone	6.48	58	10674	12.21	ug/L	92
12) (IPA) Leak Check Compound	6.46	45	231550	1147.17	ug/L	86
13) Carbon disulfide	6.84	76	4995	0.36	ug/L	92
14) Methylene Chloride	7.06	84	5984	1.30	ug/L	1
15) (TBA) tert-Butanol	7.14	59	328	1.14	ug/L	77
19) cis-1,2-Dichloroethene	8.99	96	271	0.05	ug/L	3
22) (DIPE) Diisopropyl Ether	8.15	45	260	0.02	ug/L	48
24) Chloroform	9.20	83	1793	0.20	ug/L	1
31) Benzene	9.92	78	11819	0.75	ug/L	81
32) 1,2-Dichloroethane	9.92	62	5561	0.99	ug/L	1
40) (MIBK) 4-Methyl-2-Pentanone	12.12	43	262	0.10	ug/L	100
41) Toluene	12.28	91	30636	1.73	ug/L	91
46) 2-Hexanone	12.95	43	262	0.09	ug/L	37
51) Ethylbenzene	14.02	91	10200	0.51	ug/L	80
52) m,p-Xylenes	14.14	106	14632	2.04	ug/L	97
53) o-Xylene	14.62	106	4834	0.68	ug/L	79
54) Styrene	14.62	104	1936	-0.68	ug/L	40
56) Isopropylbenzene	15.00	105	287	0.01	ug/L	55

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E2700012.D

Vial: 3

Acq On : 27 May 2014 3:05 pm

Operator: DN

Sample : 3E42701-09

Inst : GC/MS Ins

Misc : 100cc SVL-512-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 15:29 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
57) 1,2,3-Trichloropropane	15.31	75	307	0.06	ug/L #	36
62) n-Propylbenzene	15.45	91	2598	0.09	ug/L #	56
63) 2-Chlorotoluene	15.53	91	269	0.02	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.62	105	857	0.05	ug/L #	89
65) 4-Chlorotoluene	15.53	91	269	0.02	ug/L #	44
66) tert-Butylbenzene	16.05	119	653	0.05	ug/L #	48
67) 1,2,4-Trimethylbenzene	16.06	105	6239	0.35	ug/L	97
68) sec-Butylbenzene	16.06	105	6239	0.27	ug/L #	62
69) p-Isopropyltoluene	16.38	119	1253	0.07	ug/L #	56
77) Naphthalene	19.45	128	986	0.07	ug/L	100

(#) = qualifier out of range (m) = manual integration

E2700012.D MW111313.M

Tue May 27 15:29:56 2014

Page 2

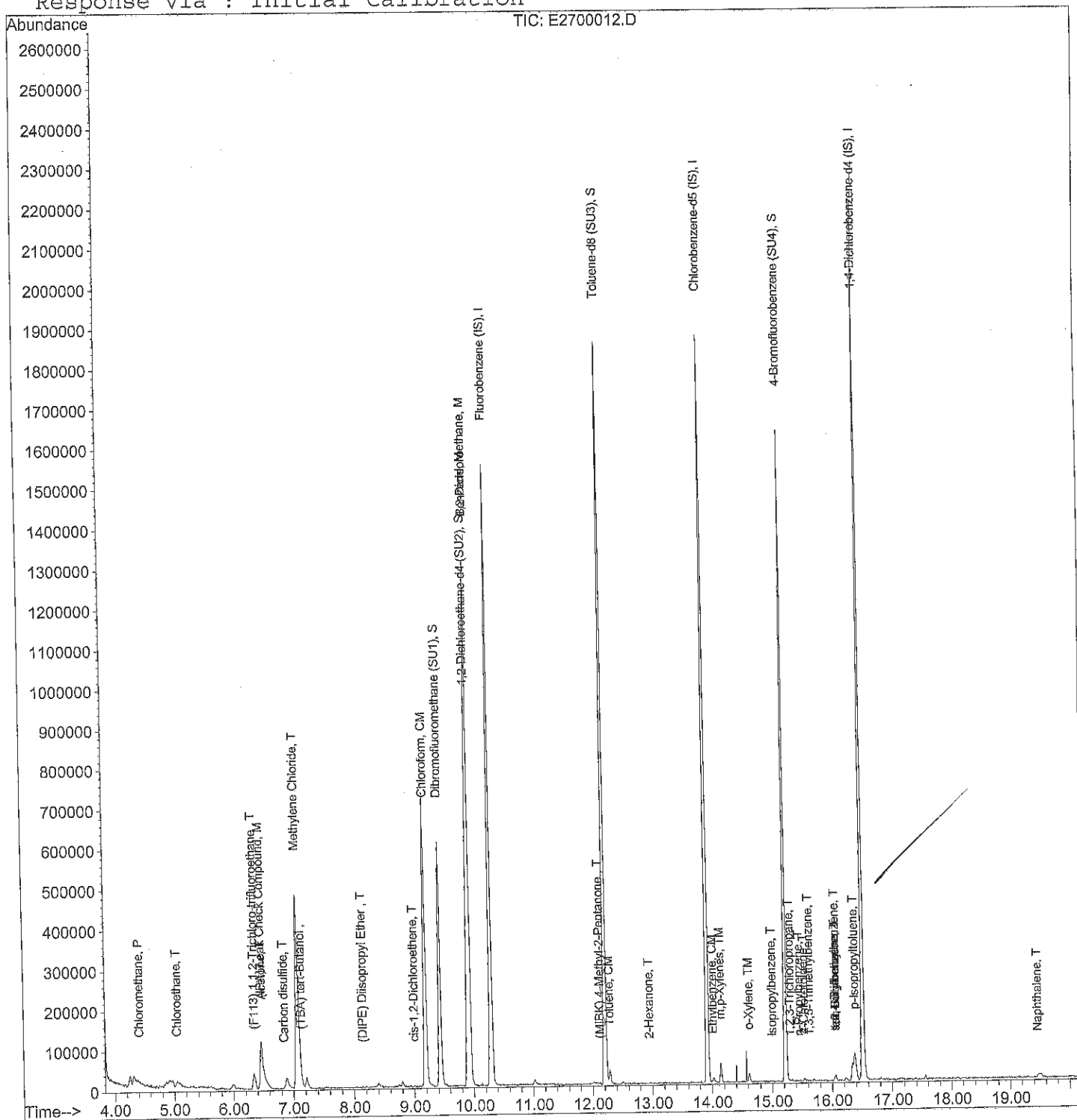
Quantitation Report

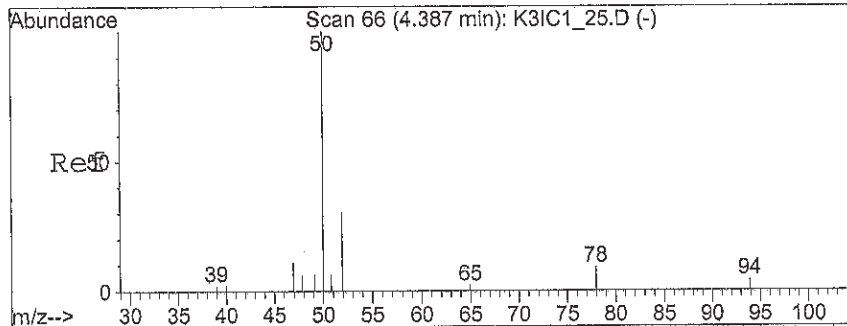
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 Acq On : 27 May 2014 3:05 pm
 Sample : 3E42701-09
 Misc : 100cc SVL-512-SA5D-SV-5.0-6.0
 MS Integration Params: rteint.p
 Quant Time: May 27 15:29 19114

Vial: 3
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

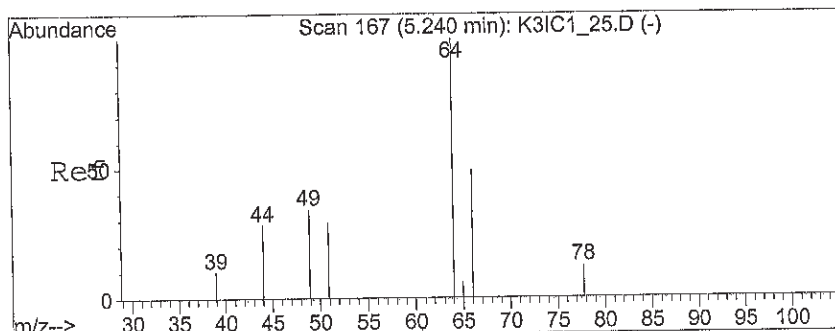
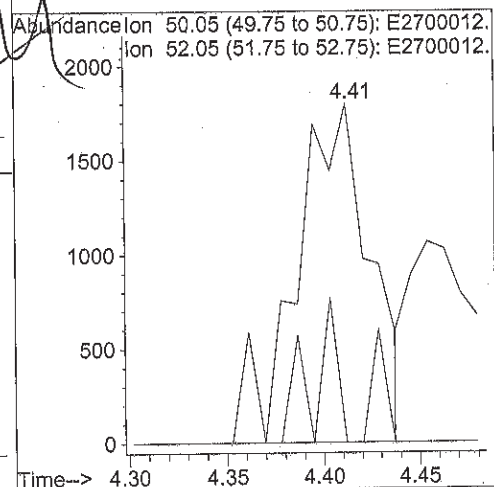
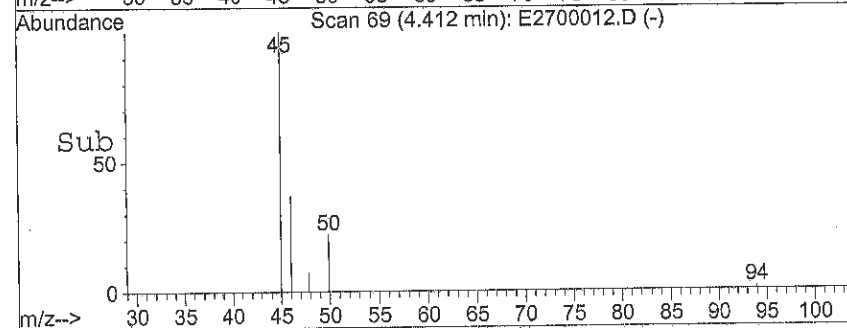
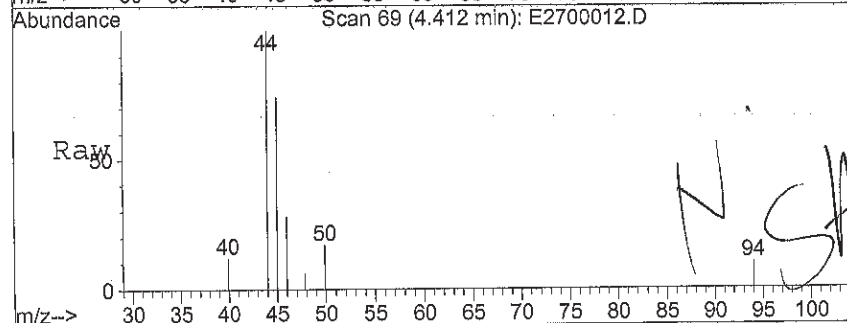
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration





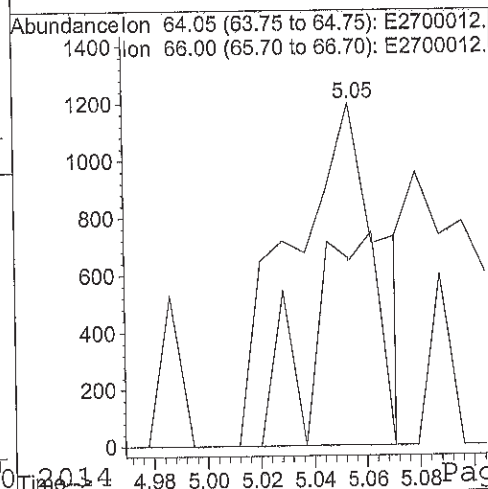
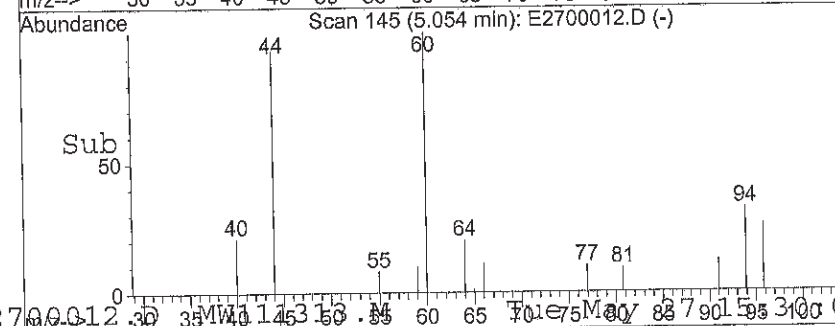
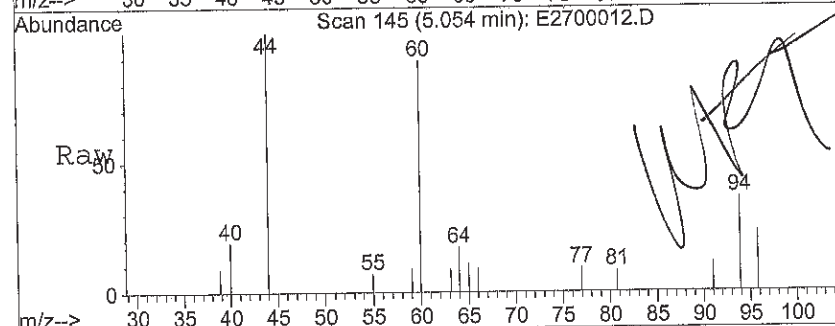
#4
Chloromethane
Concen: 0.49 ug/L
RT: 4.41 min Scan# 69
Delta R.T. 0.02 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

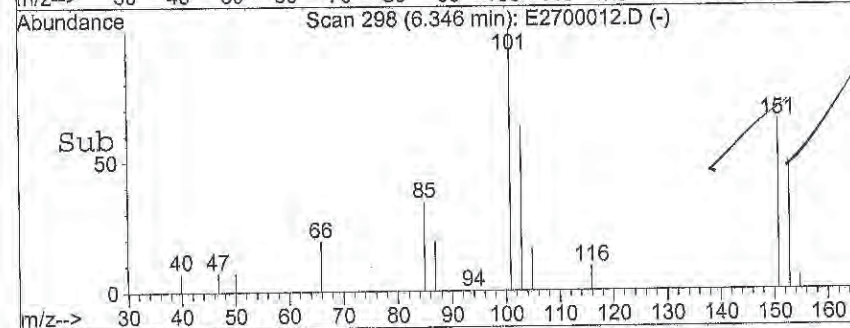
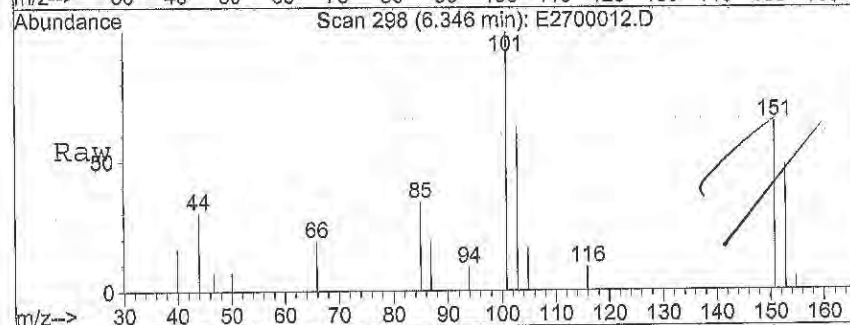
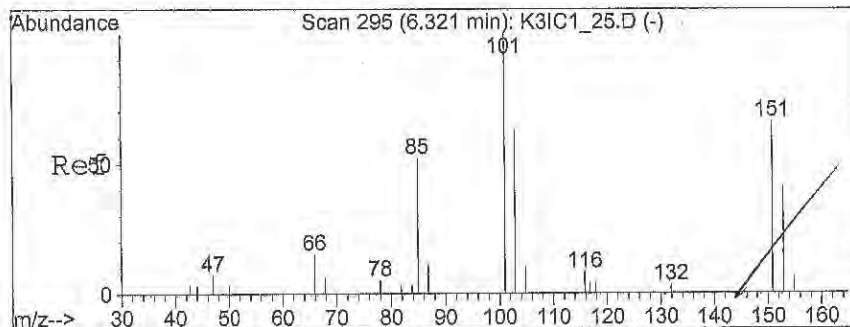
Tgt Ion: 50 Resp: 4823
Ion Ratio Lower Upper
50 100
52 8.1 26.9 40.3#



#7
Chloroethane
Concen: 2.71 ug/L
RT: 5.05 min Scan# 145
Delta R.T. -0.19 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

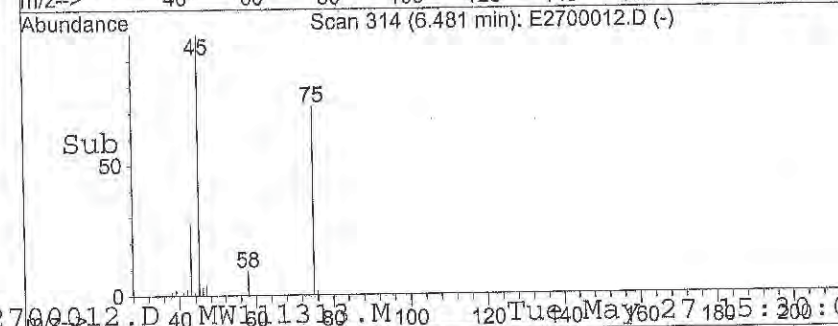
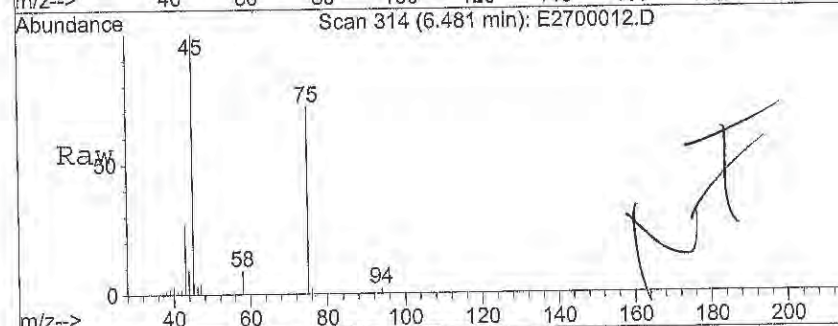
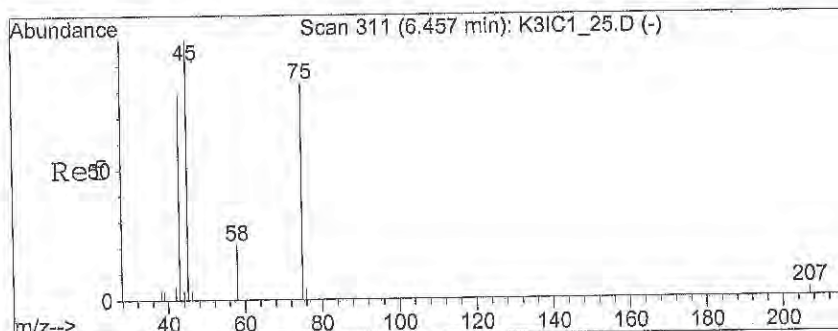
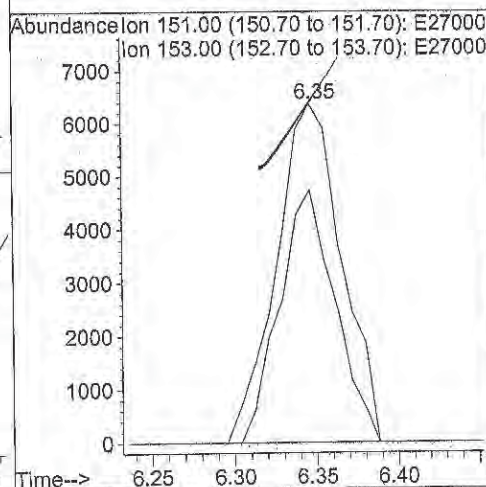
Tgt Ion: 64 Resp: 2826
Ion Ratio Lower Upper
64 100
66 47.6 35.4 53.0





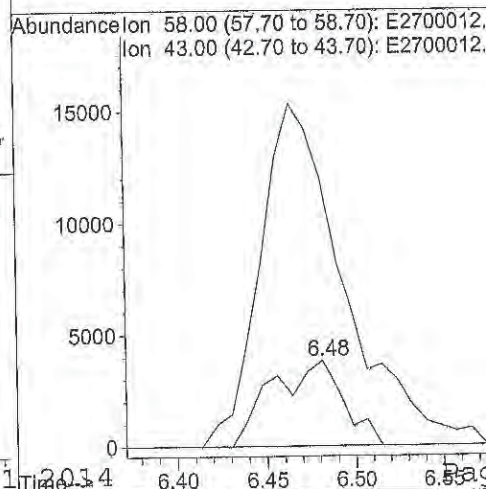
#9
(F113) 1,1,2-Trichloro-trifluor
Concen: 5.32 ug/L
RT: 6.35 min Scan# 298
Delta R.T. 0.03 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

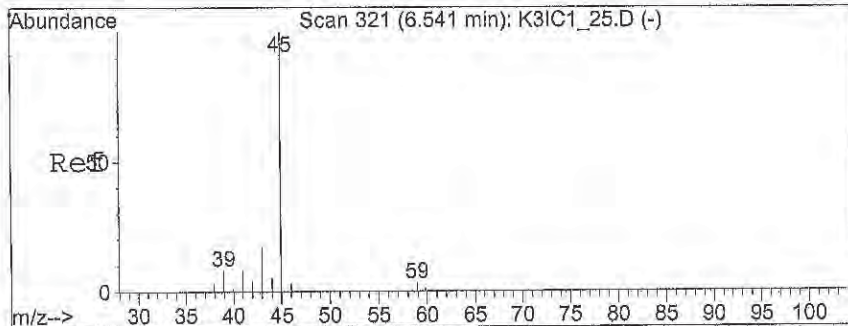
Tgt Ion: 151 Resp: 17555
Ion Ratio Lower Upper
151 100
153 63.3 49.6 74.4



#11
Acetone
Concen: 12.21 ug/L
RT: 6.48 min Scan# 314
Delta R.T. 0.02 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

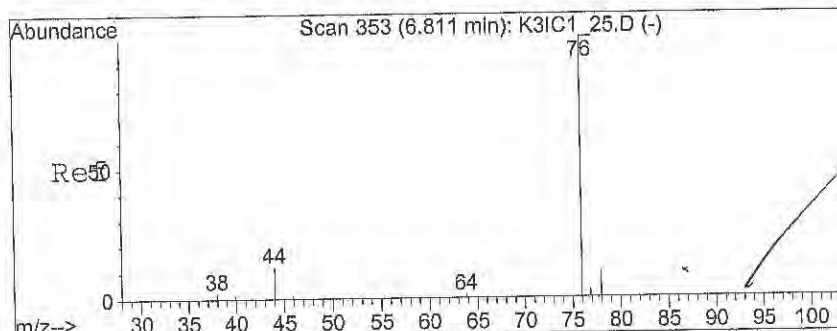
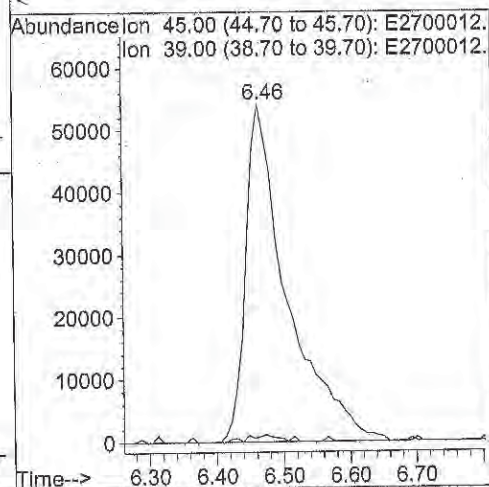
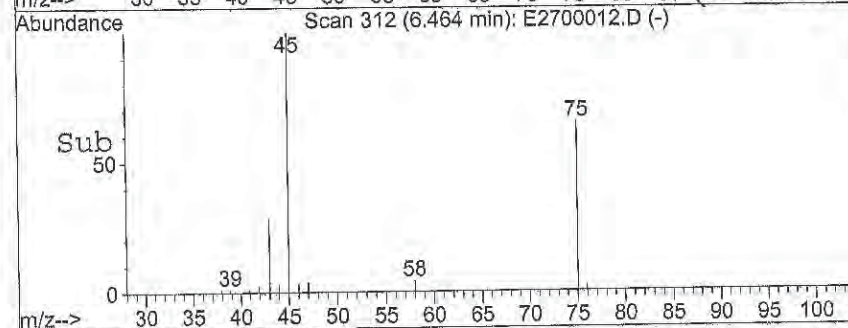
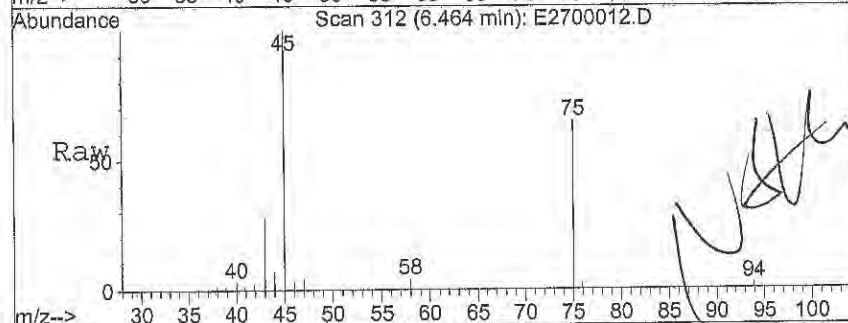
Tgt Ion: 58 Resp: 10674
Ion Ratio Lower Upper
58 100
43 470.8 360.9 541.3





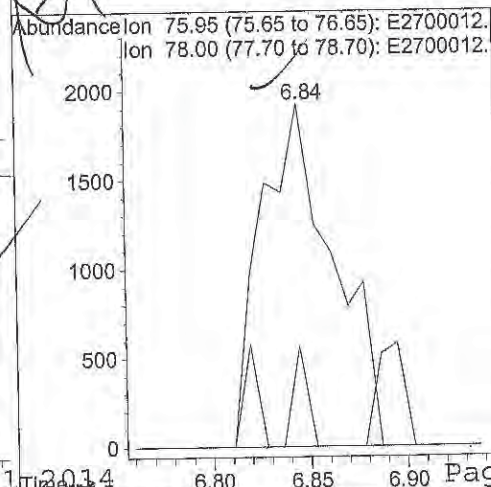
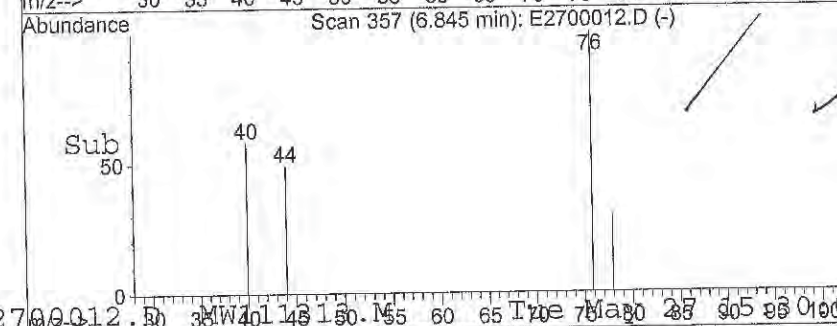
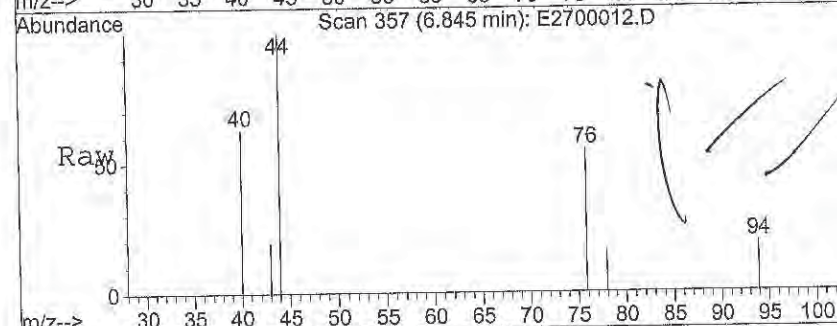
#12
 (IPA) Leak Check Compound
 Concen: 1147.17 ug/L
 RT: 6.46 min Scan# 312
 Delta R.T. -0.08 min
 Lab File: E2700012.D
 Acq: 27 May 2014 3:05 pm

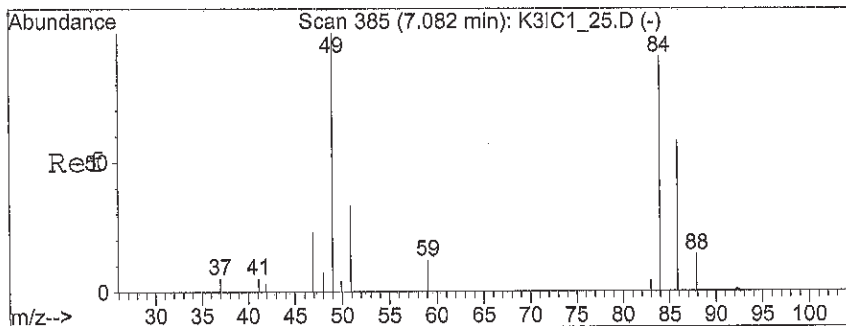
Tgt Ion: 45 Resp: 231550
 Ion Ratio Lower Upper
 45 100
 39 1.5 4.9 7.3#



#13
 Carbon disulfide
 Concen: 0.36 ug/L
 RT: 6.84 min Scan# 357
 Delta R.T. 0.03 min
 Lab File: E2700012.D
 Acq: 27 May 2014 3:05 pm

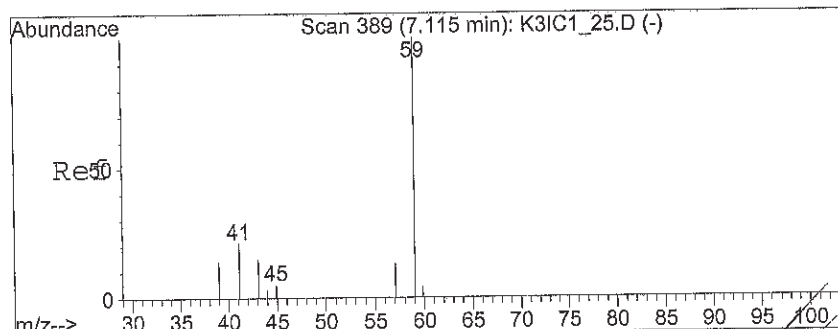
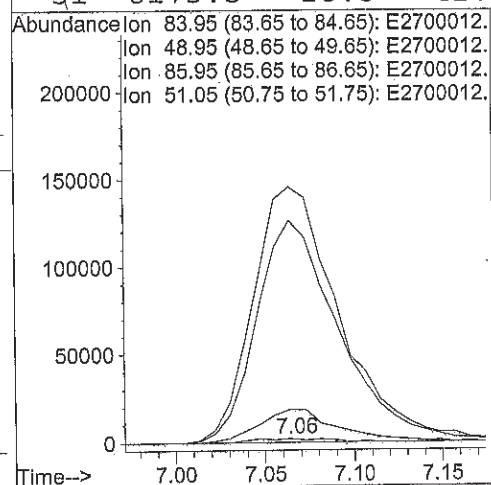
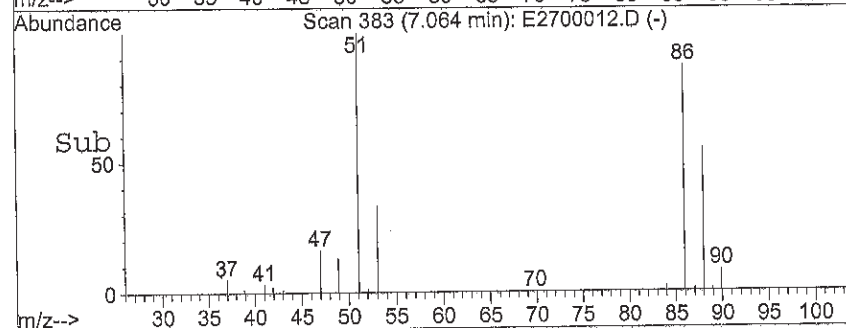
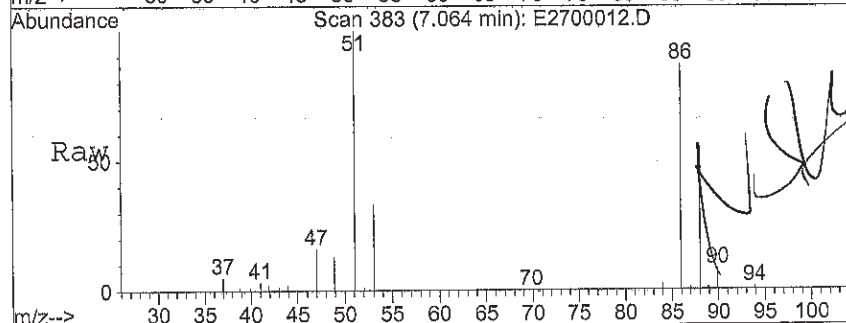
Tgt Ion: 76 Resp: 4995
 Ion Ratio Lower Upper
 76 100
 78 5.7 7.0 10.4#





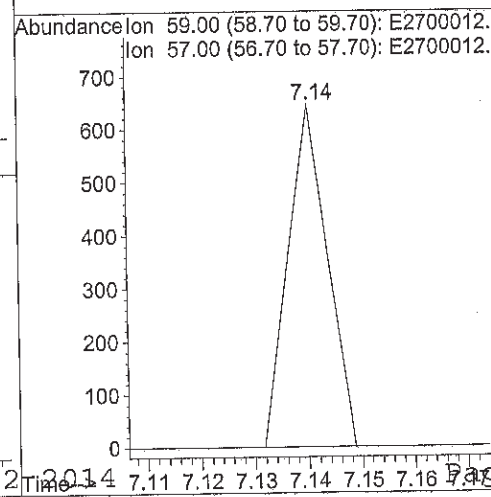
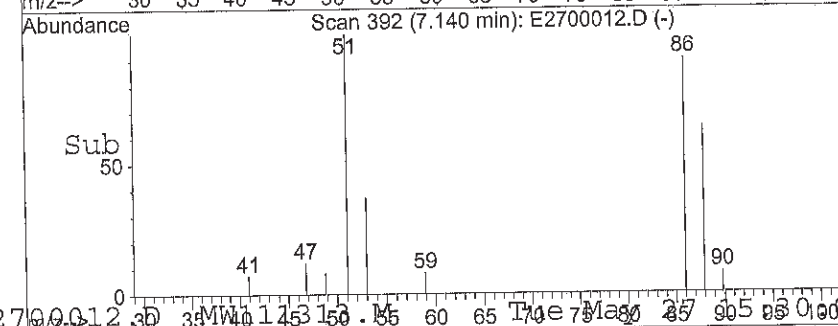
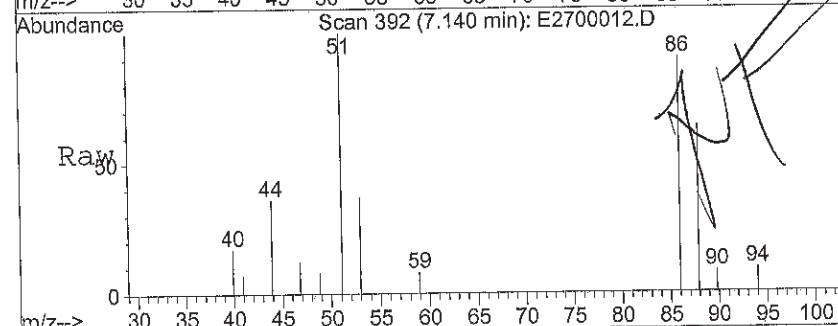
#14
Methylene Chloride
Concen: 1.30 ug/L
RT: 7.06 min Scan# 383
Delta R.T. -0.02 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

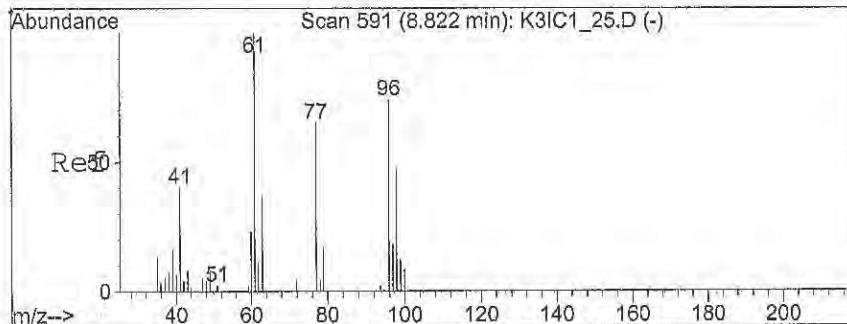
Tgt Ion: 84 Resp: 5984
Ion Ratio Lower Upper
84 100
49 941.9 89.8 134.6#
86 6785.8 51.1 76.7#
51 8173.5 28.5 42.7#



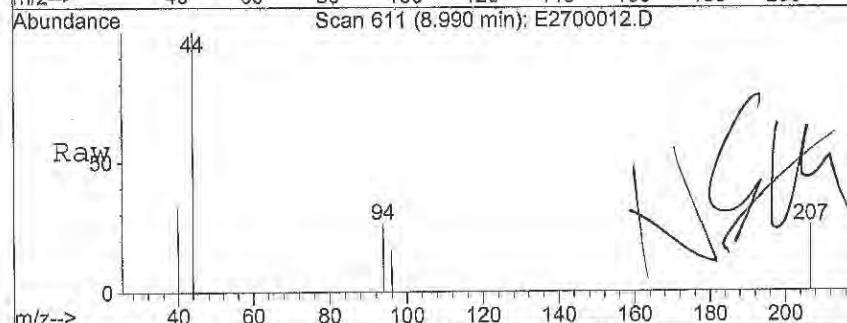
#15
(TBA) tert-Butanol
Concen: 1.14 ug/L
RT: 7.14 min Scan# 392
Delta R.T. 0.02 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

Tgt Ion: 59 Resp: 328
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#

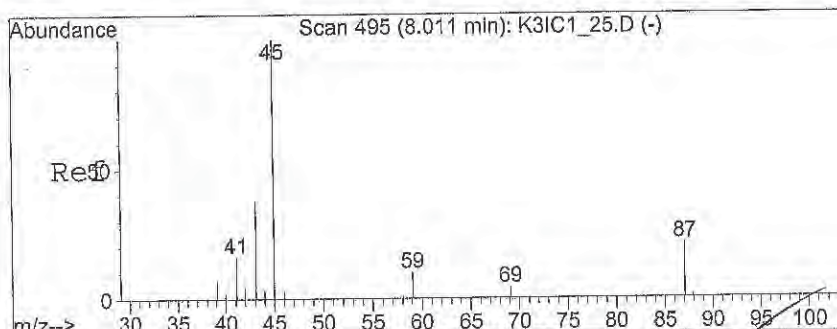
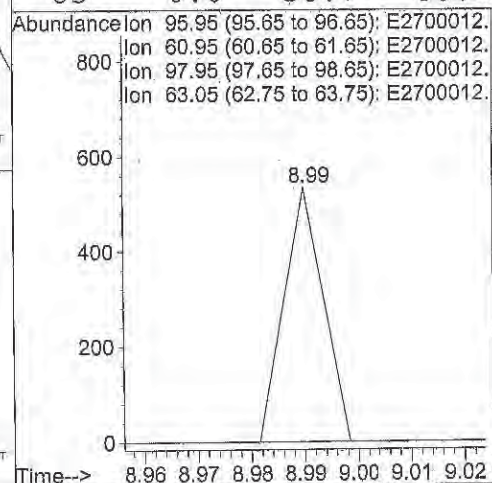
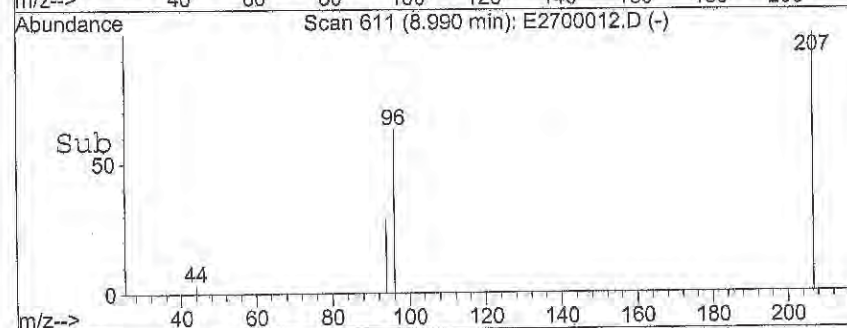




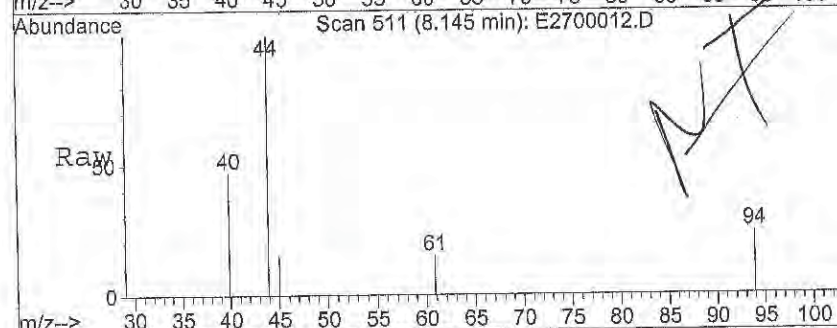
#19
 cis-1,2-Dichloroethene
 Concen: 0.05 ug/L
 RT: 8.99 min Scan# 611
 Delta R.T. 0.17 min
 Lab File: E2700012.D
 Acq: 27 May 2014 3:05 pm



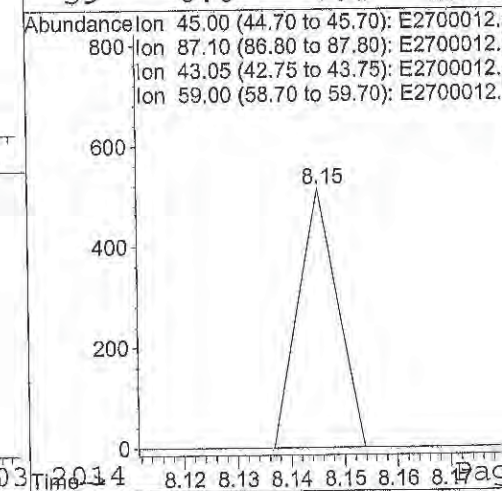
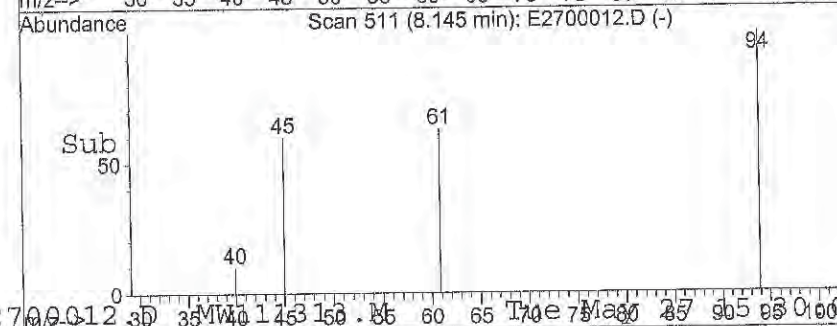
Tgt Ion: 96 Resp: 271
 Ion Ratio Lower Upper
 96 100
 61 0.0 110.3 165.5#
 98 0.0 49.8 74.6#
 63 0.0 36.7 55.1#

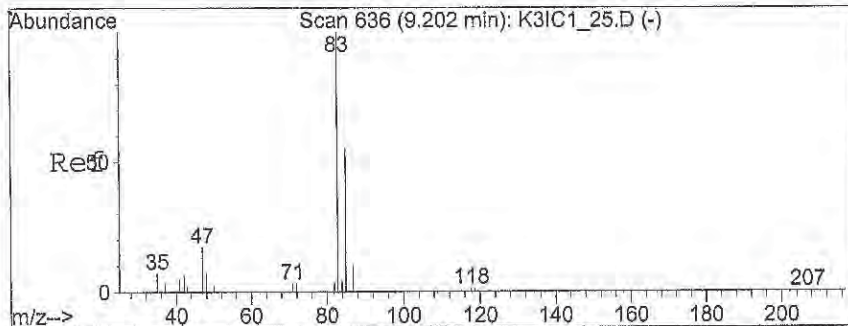


#22
 (DIPE) Diisopropyl Ether
 Concen: 0.02 ug/L
 RT: 8.15 min Scan# 511
 Delta R.T. 0.13 min
 Lab File: E2700012.D
 Acq: 27 May 2014 3:05 pm



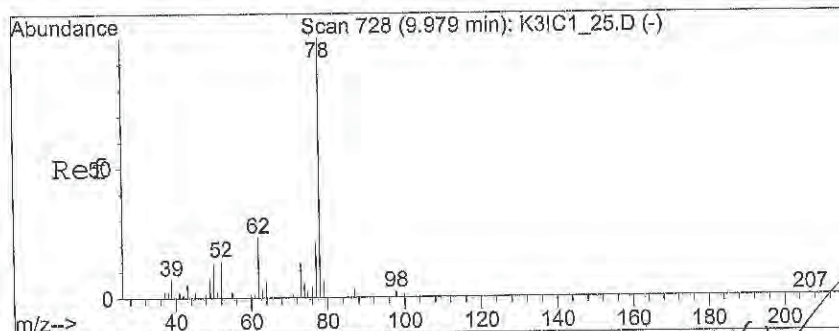
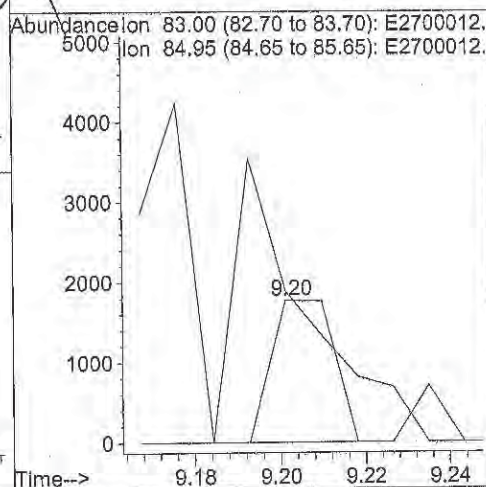
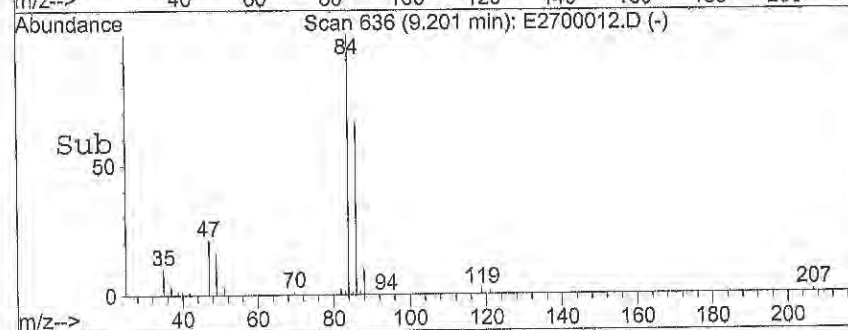
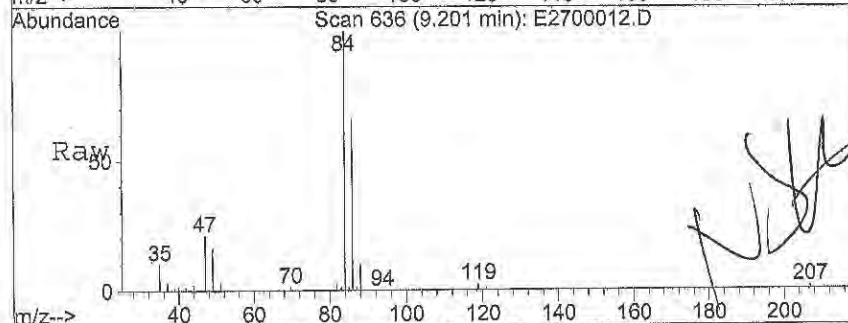
Tgt Ion: 45 Resp: 260
 Ion Ratio Lower Upper
 45 100
 87 0.0 17.0 25.6#
 43 0.0 30.5 45.7#
 59 0.0 7.4 11.2#





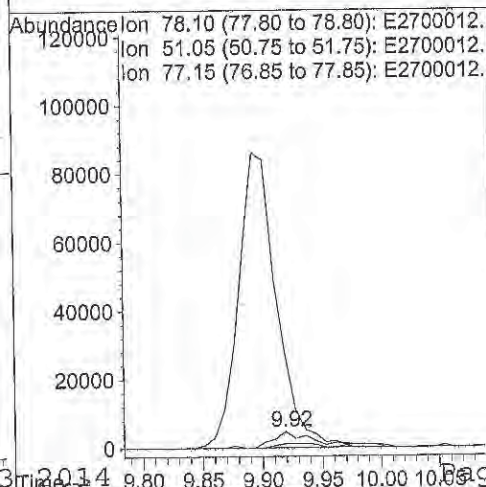
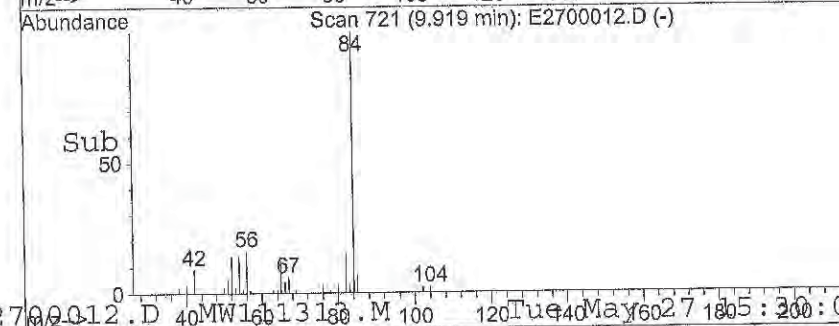
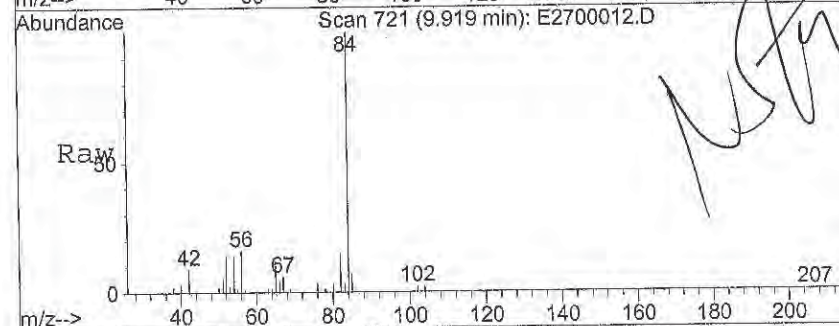
#24
Chloroform
Concen: 0.20 ug/L
RT: 9.20 min Scan# 636
Delta R.T. -0.00 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

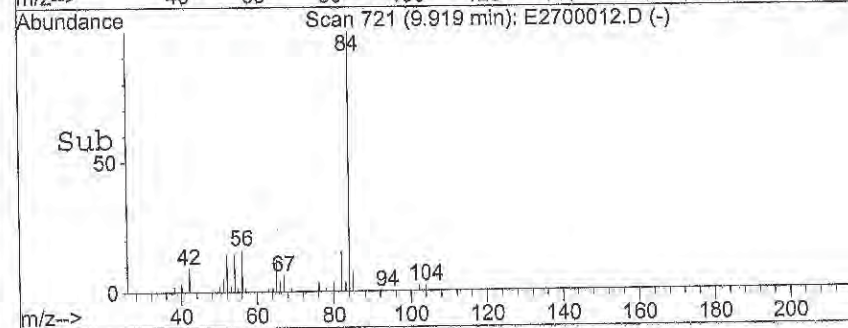
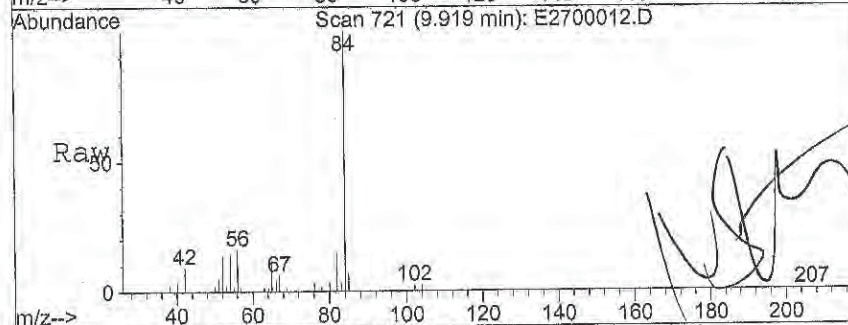
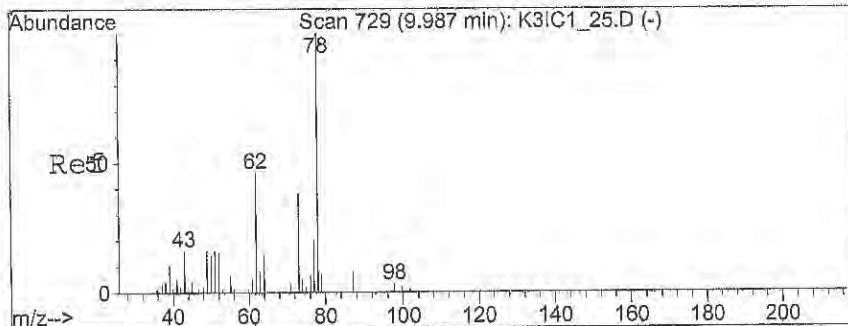
Tgt Ion: 83 Resp: 1793
Ion Ratio Lower Upper
83 100
85 233.4 51.8 77.6#



#31
Benzene
Concen: 0.75 ug/L
RT: 9.92 min Scan# 721
Delta R.T. -0.06 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

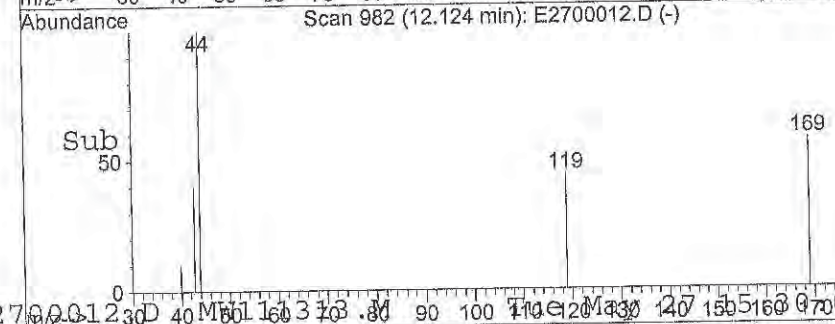
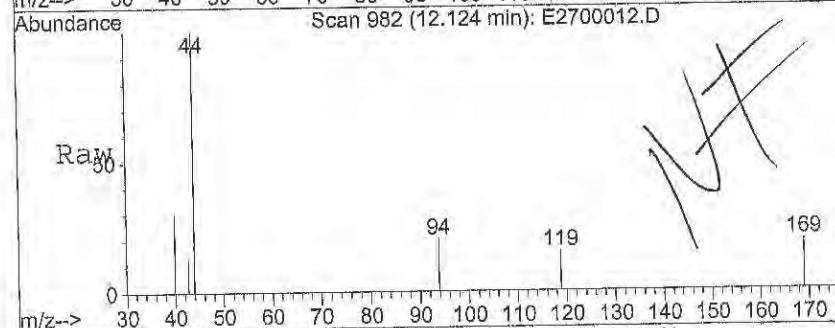
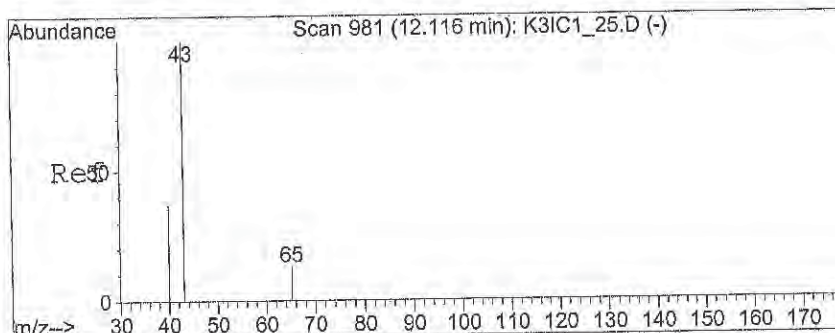
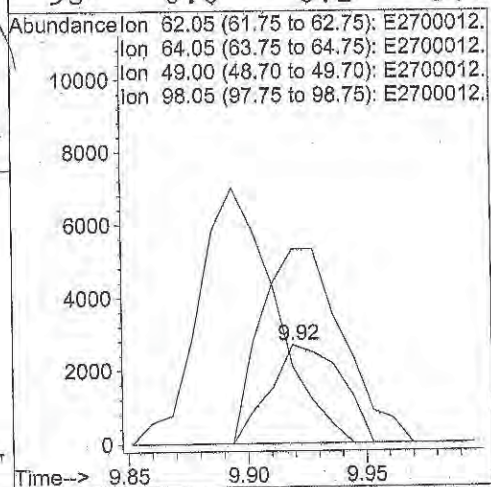
Tgt Ion: 78 Resp: 11819
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 20.9 16.6 24.8





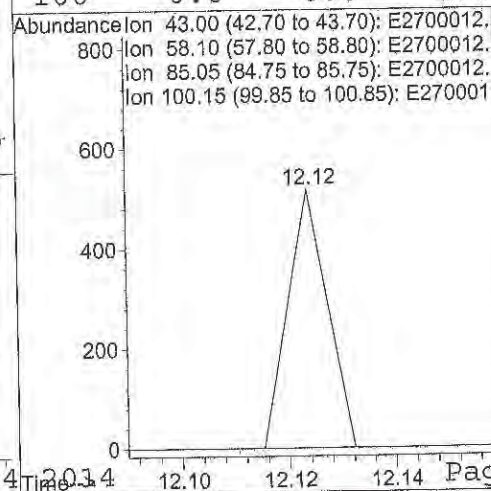
#32
1,2-Dichloroethane
Concen: 0.99 ug/L
RT: 9.92 min Scan# 721
Delta R.T. -0.07 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

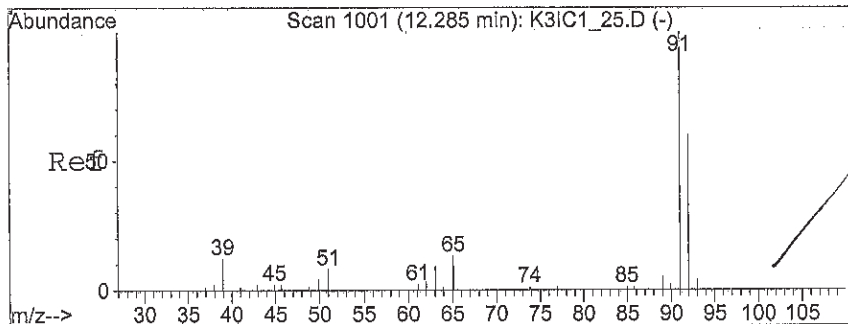
Tgt Ion:	62	Resp:	5561
Ion	Ratio	Lower	Upper
62	100		
64	230.0	28.0	42.0#
49	0.0	28.5	42.7#
98	0.0	6.2	9.4#



#40
(MIBK) 4-Methyl-2-Pentanone
Concen: 0.10 ug/L
RT: 12.12 min Scan# 982
Delta R.T. 0.01 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

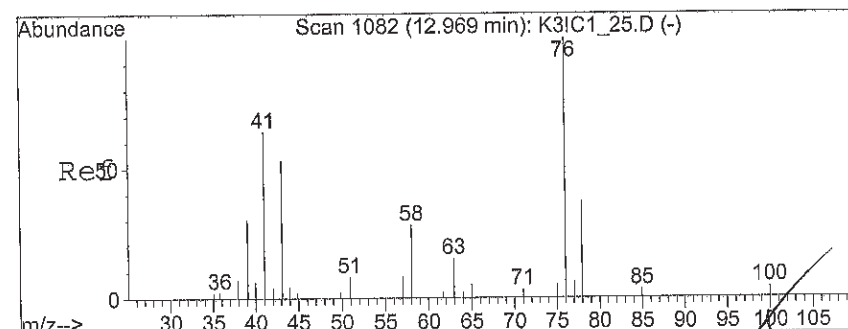
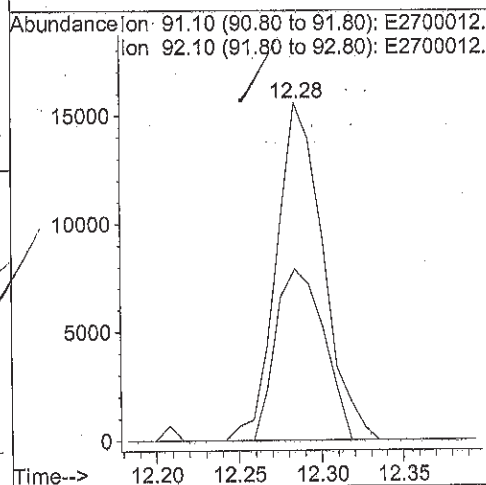
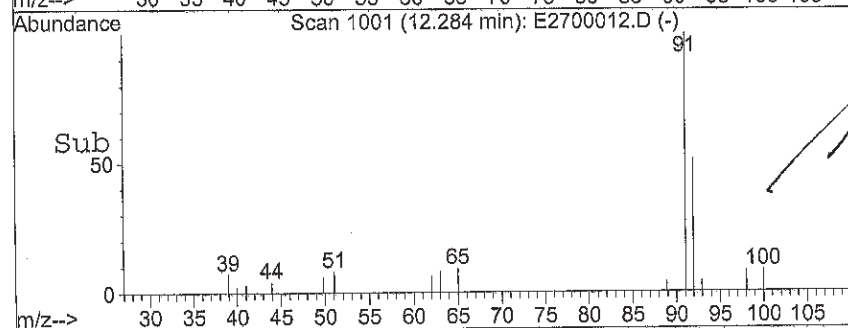
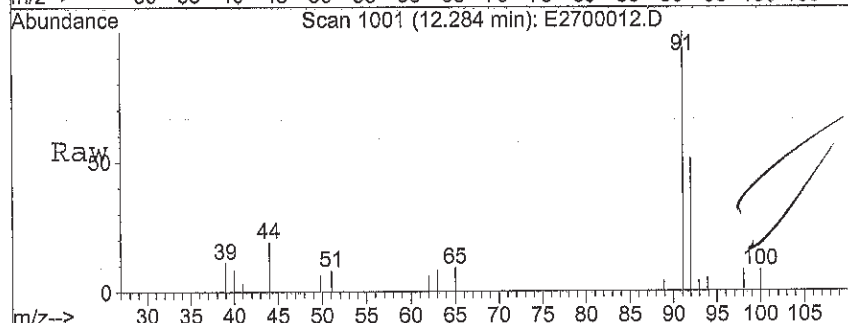
Tgt Ion:	43	Resp:	262
Ion	Ratio	Lower	Upper
43	100		
58	0.0	0.0	0.0
85	0.0	0.0	0.0
100	0.0	0.0	0.0





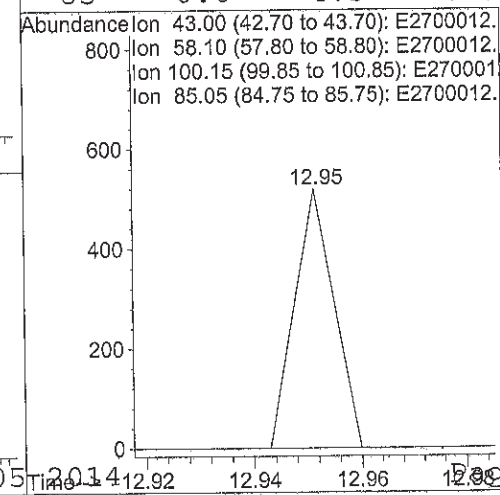
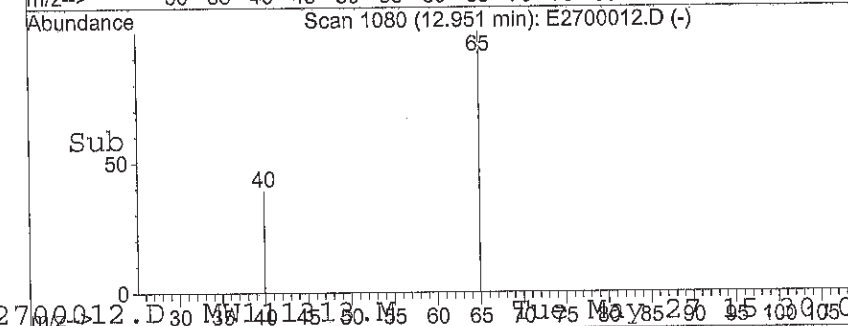
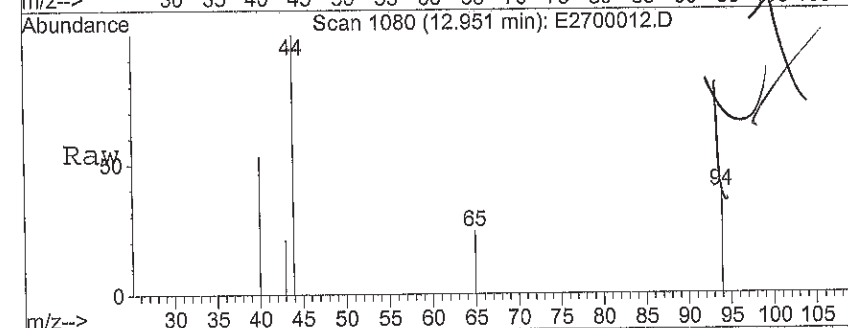
#41
Toluene
Concen: 1.73 ug/L
RT: 12.28 min Scan# 1001
Delta R.T. -0.00 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

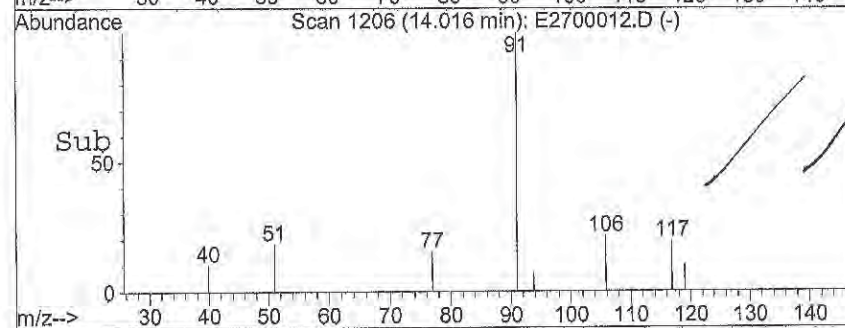
Tgt Ion: 91 Resp: 30636
Ion Ratio Lower Upper
91 100
92 52.3 47.4 71.0



#46
2-Hexanone
Concen: 0.09 ug/L
RT: 12.95 min Scan# 1080
Delta R.T. -0.02 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

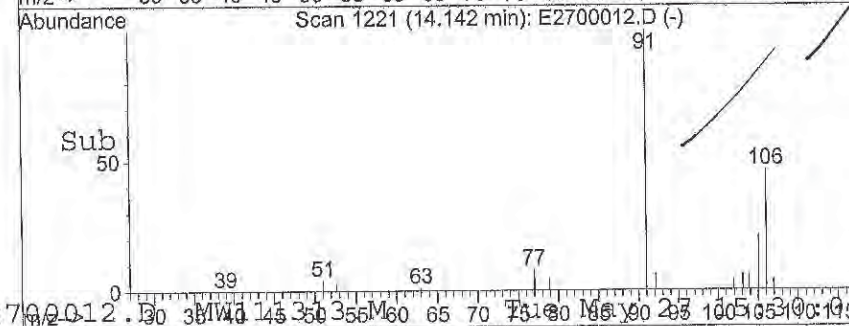
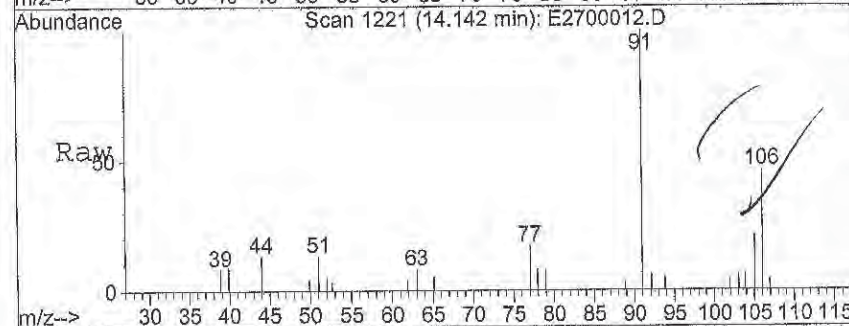
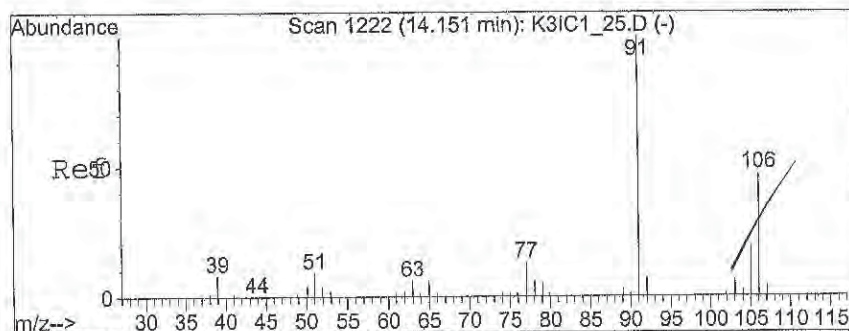
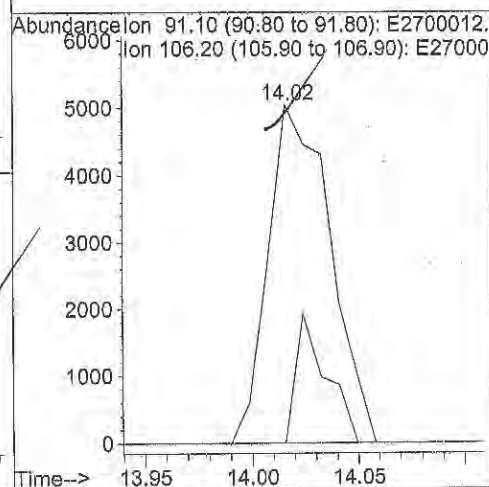
Tgt Ion: 43 Resp: 262
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#





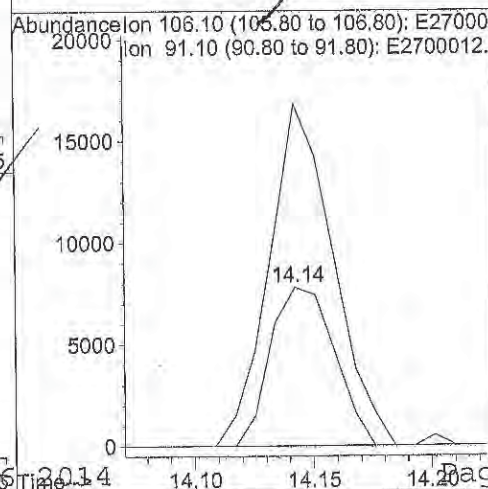
```
#51
Ethylbenzene
Concen: 0.51 ug/L
RT: 14.02 min   Scan# 1206
Delta R.T.    -0.01 min
Lab File:     E2700012.D
Acq: 27 May 2014   3:05 pm
```

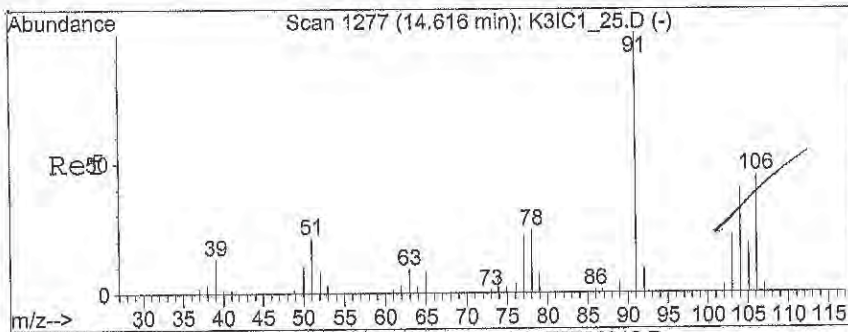
```
Tgt Ion: 91 Resp: 10200
Ion Ratio Lower Upper
91 100
106 18.7 23.5 35.3#
```



#52
m,p-Xylenes
Concen: 2.04 ug/L
RT: 14.14 min Scan# 1221
Delta R.T. -0.01 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

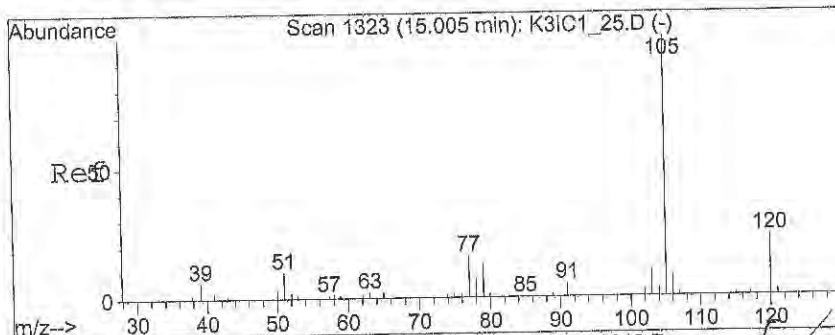
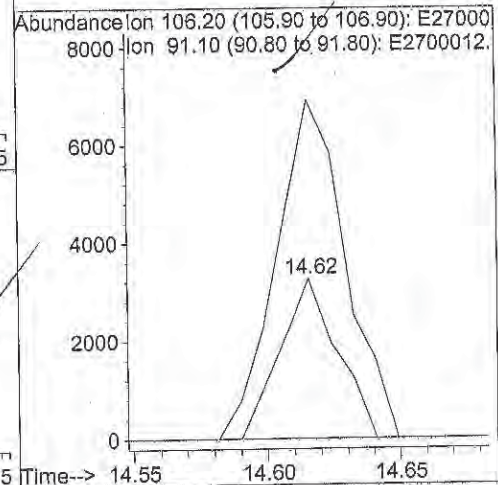
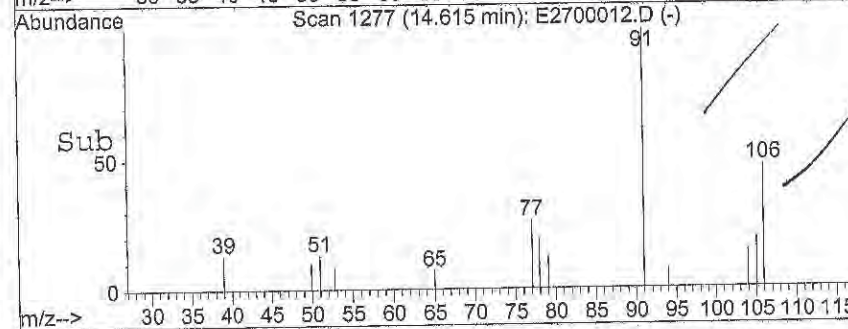
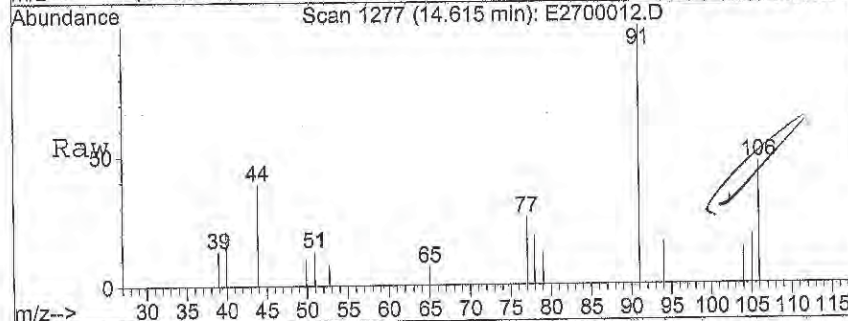
Tgt	Ion:106	Resp:	14632
Ion	Ratio	Lower	Upper
106	100		
91	216.0	177.1	265.7





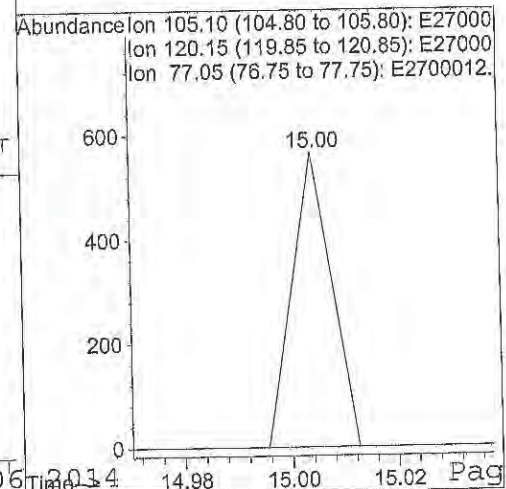
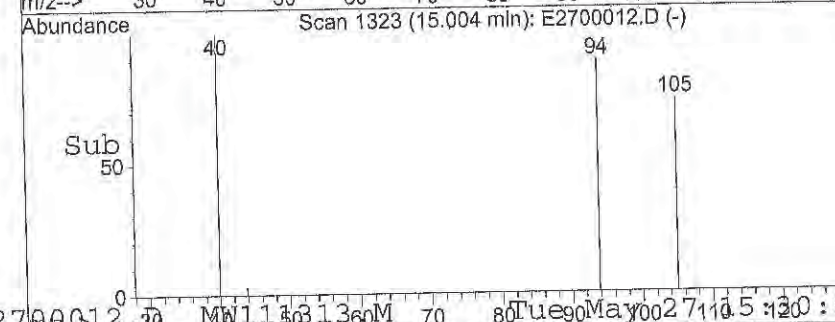
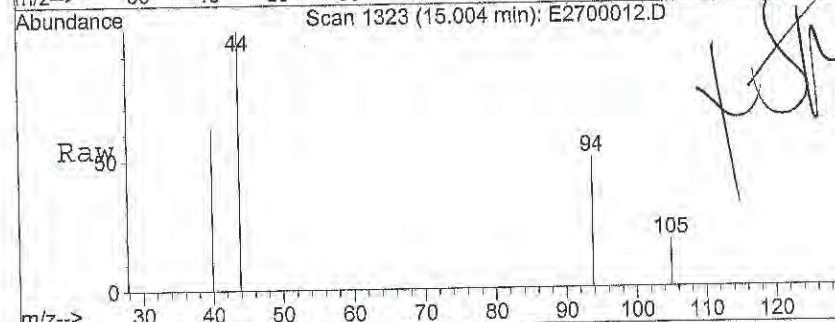
#53
o-Xylene
Concen: 0.68 ug/L
RT: 14.62 min Scan# 1277
Delta R.T. -0.00 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

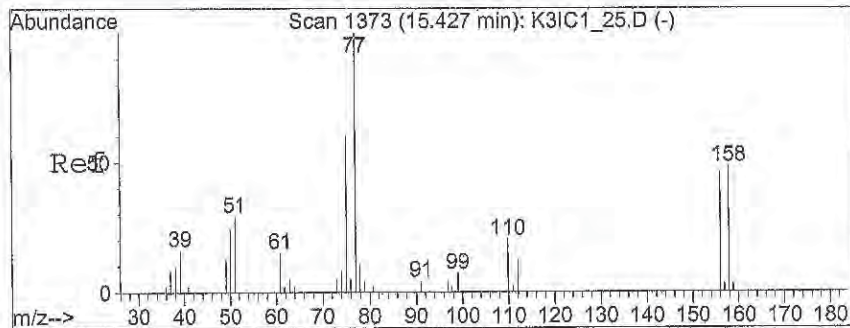
Tgt Ion:106 Resp: 4834
Ion Ratio Lower Upper
106 100
91 257.2 179.0 268.6



#56
Isopropylbenzene
Concen: 0.01 ug/L
RT: 15.00 min Scan# 1323
Delta R.T. -0.00 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

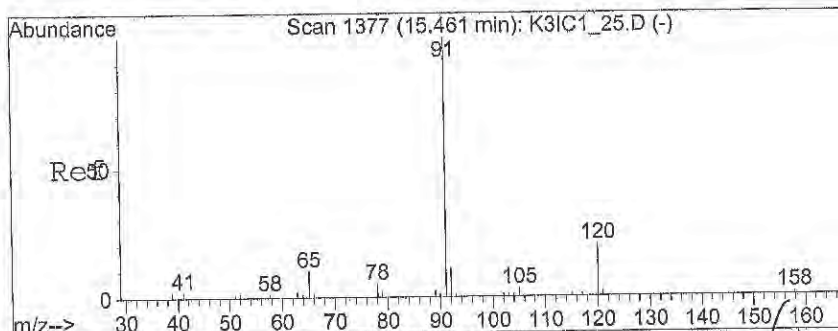
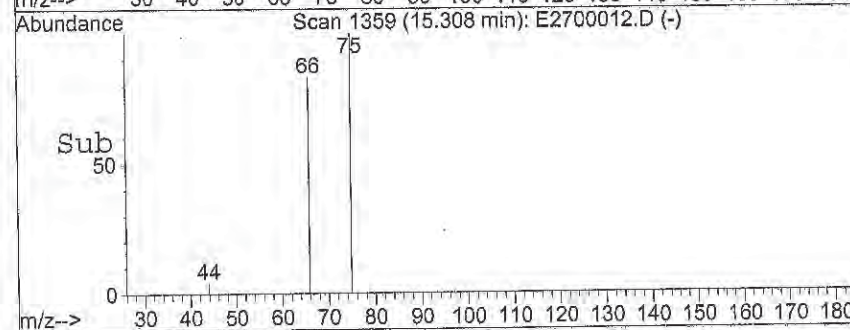
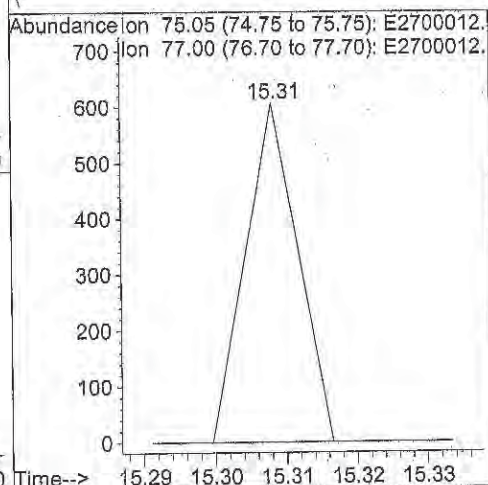
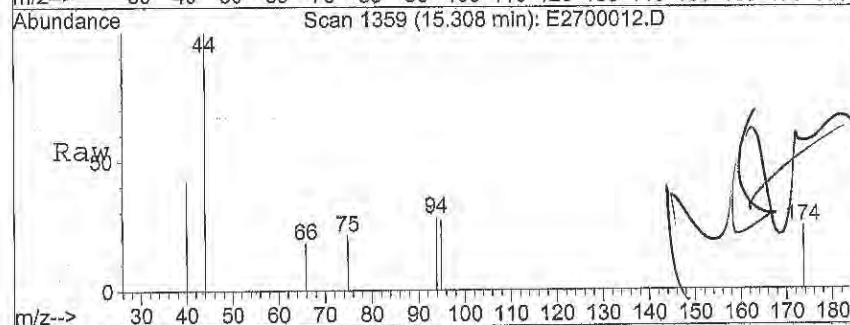
Tgt Ion:105 Resp: 287
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 0.0 13.1 19.7#





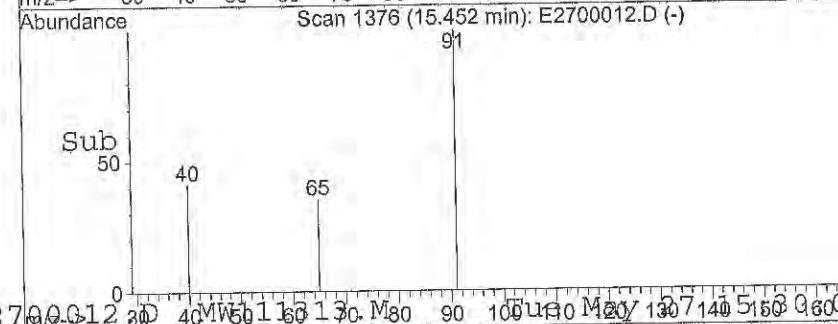
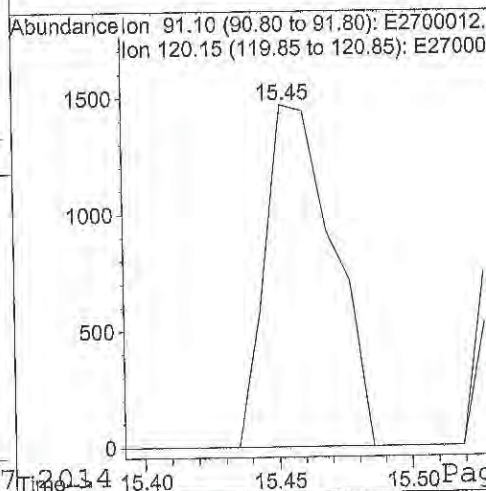
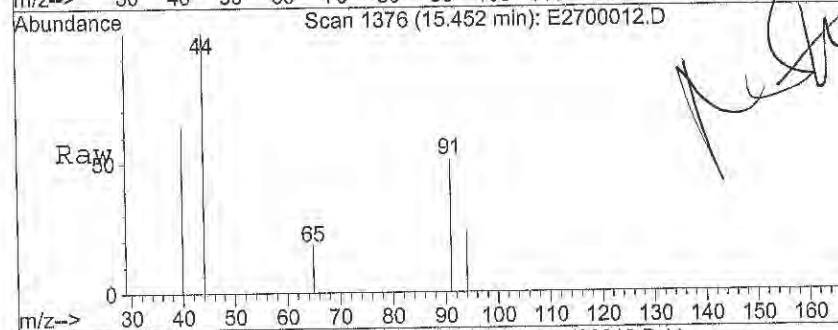
#57
 1,2,3-Trichloropropane
 Concen: 0.06 ug/L
 RT: 15.31 min Scan# 1359
 Delta R.T. -0.12 min
 Lab File: E2700012.D
 Acq: 27 May 2014 3:05 pm

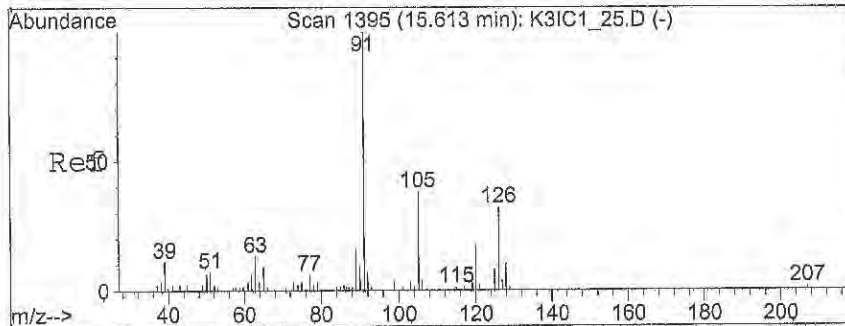
Tgt Ion: 75 Resp: 307
 Ion Ratio Lower Upper
 75 100
 77 0.0 31.2 46.8#



#62
 n-Propylbenzene
 Concen: 0.09 ug/L
 RT: 15.45 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: E2700012.D
 Acq: 27 May 2014 3:05 pm

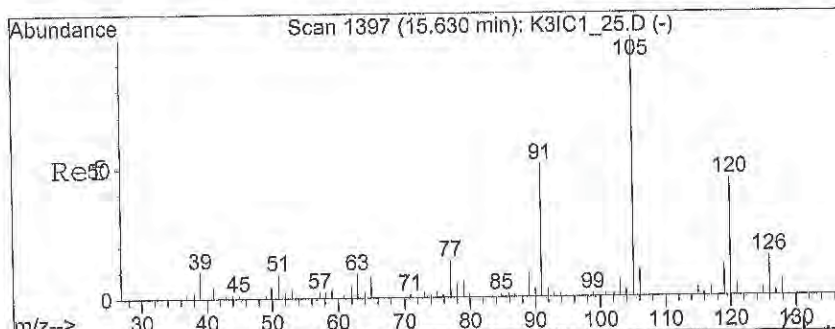
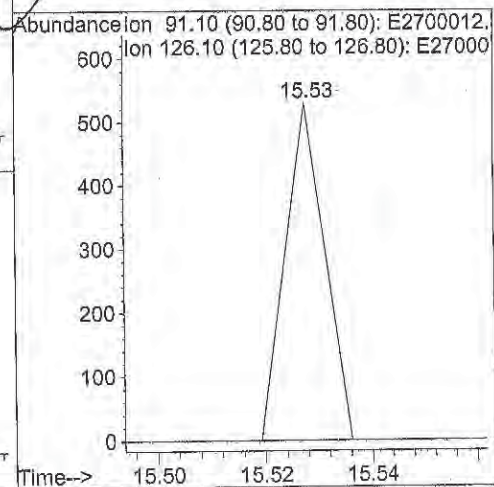
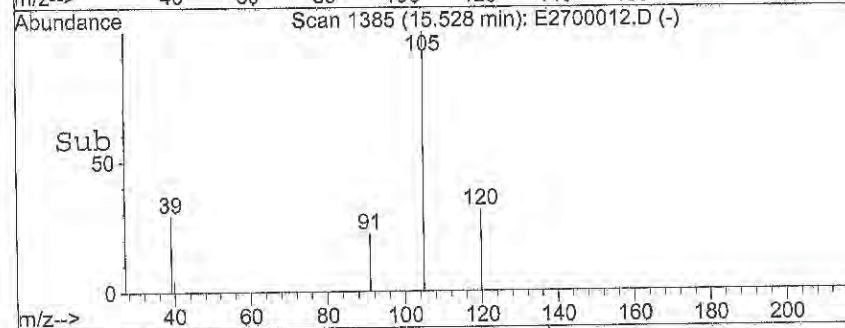
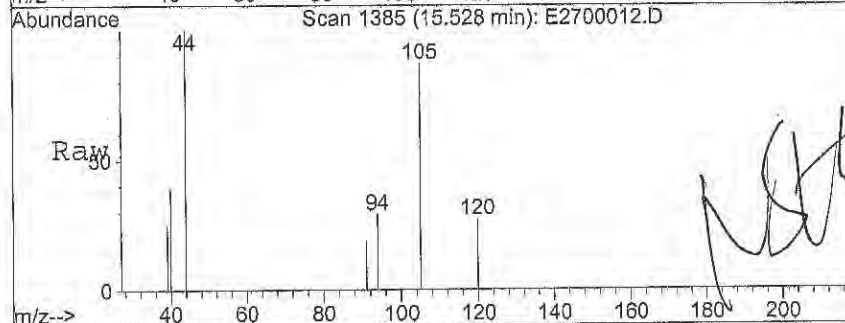
Tgt Ion: 91 Resp: 2598
 Ion Ratio Lower Upper
 91 100
 120 0.0 16.1 24.1#





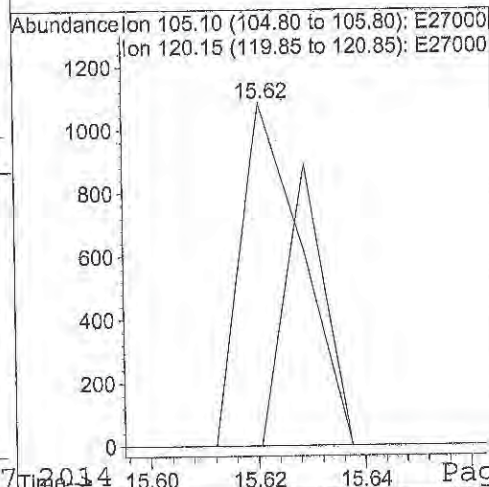
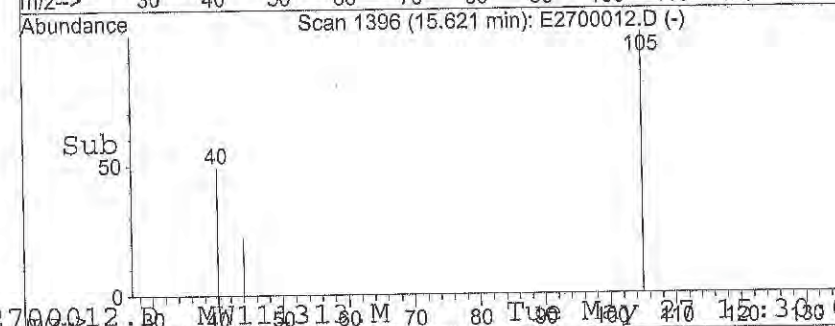
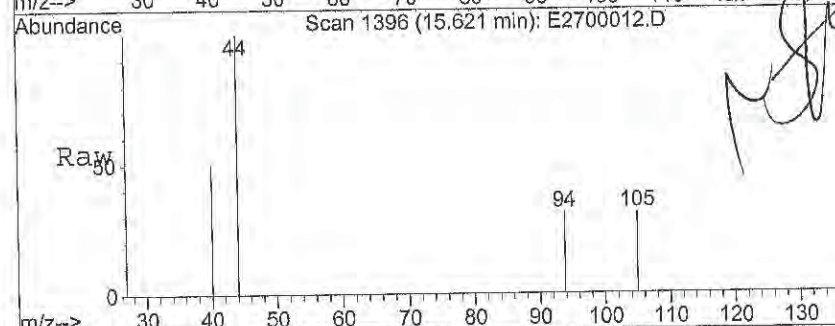
#63
2-Chlorotoluene
Concen: 0.02 ug/L
RT: 15.53 min Scan# 1385
Delta R.T. -0.09 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

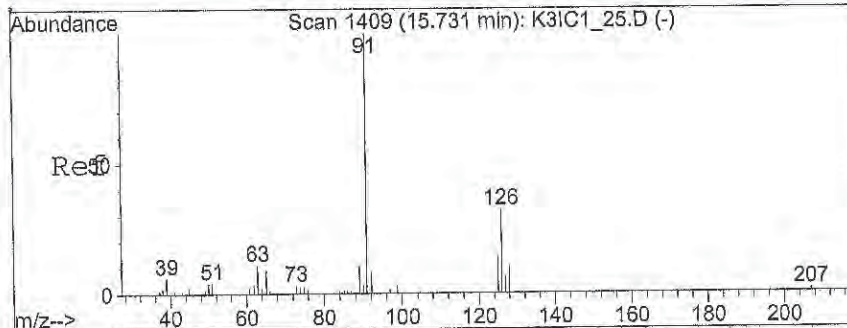
Tgt Ion: 91 Resp: 269
Ion Ratio Lower Upper
91 100
126 0.0 24.0 36.0#



#64
1,3,5-Trimethylbenzene
Concen: 0.05 ug/L
RT: 15.62 min Scan# 1396
Delta R.T. -0.01 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

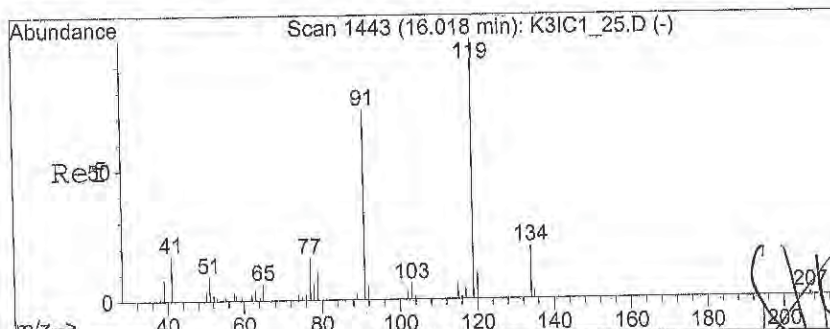
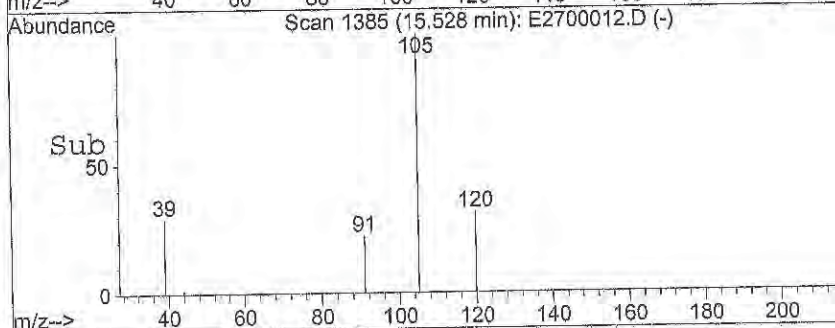
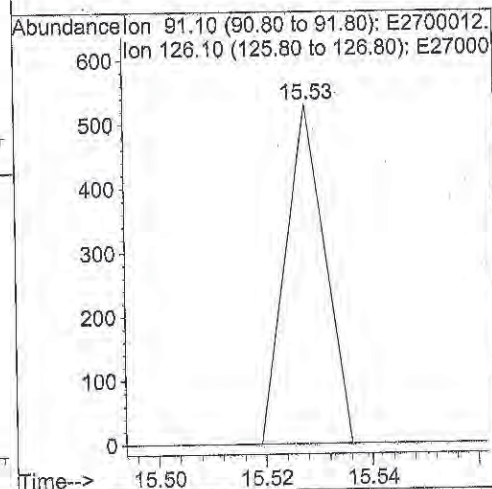
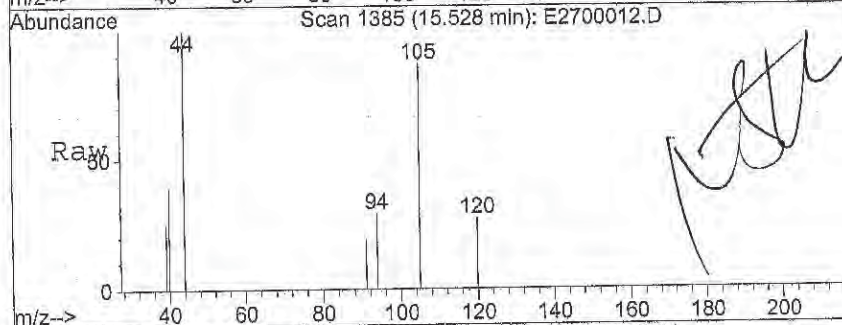
Tgt Ion: 105 Resp: 857
Ion Ratio Lower Upper
105 100
120 52.6 36.4 54.6





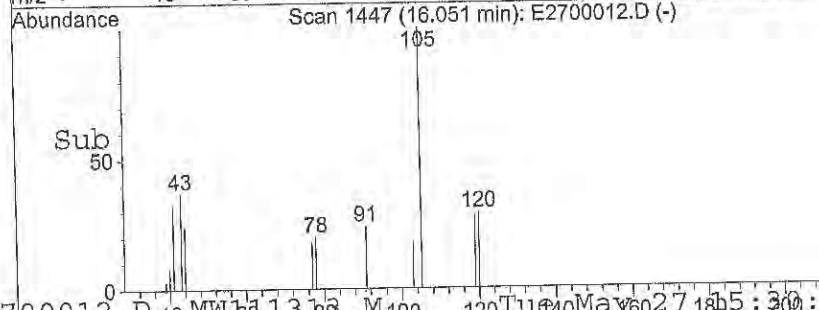
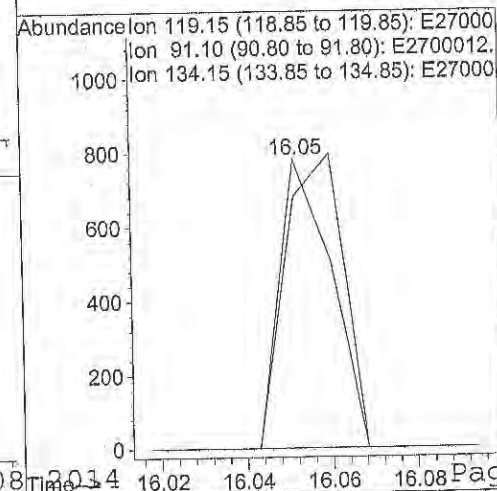
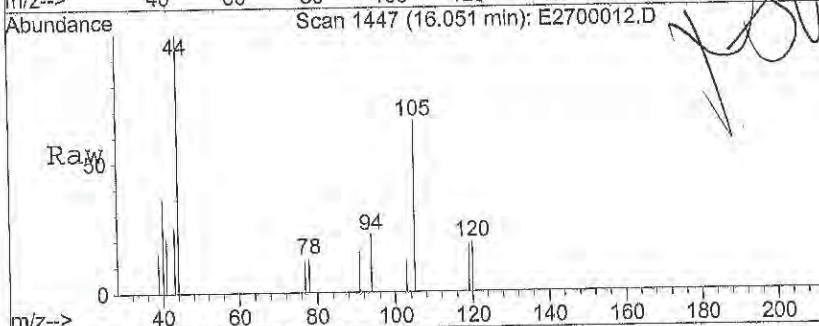
#65
4-Chlorotoluene
Concen: 0.02 ug/L
RT: 15.53 min Scan# 1385
Delta R.T. -0.20 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

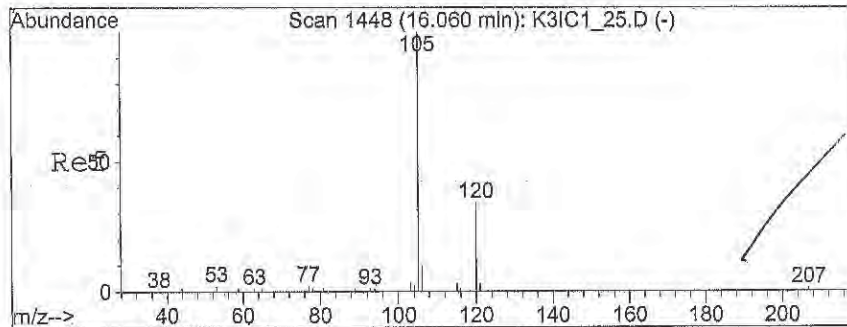
Tgt Ion: 91 Resp: 269
Ion Ratio Lower Upper
91 100
126 0.0 24.6 36.8#



#66
tert-Butylbenzene
Concen: 0.05 ug/L
RT: 16.05 min Scan# 1447
Delta R.T. 0.03 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

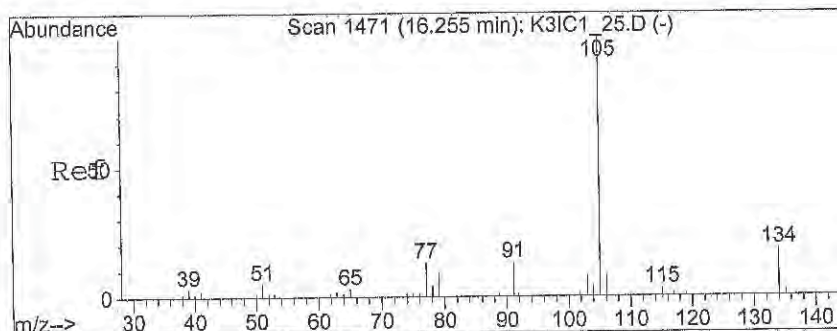
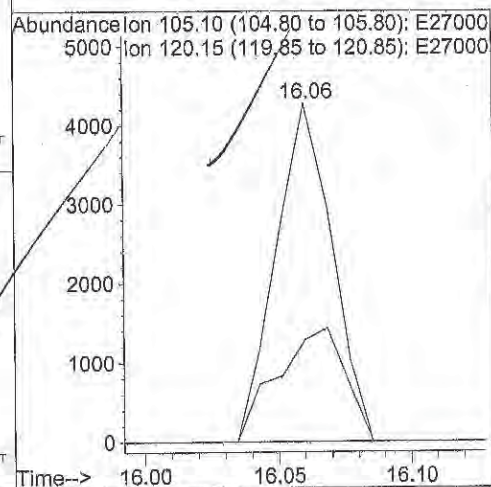
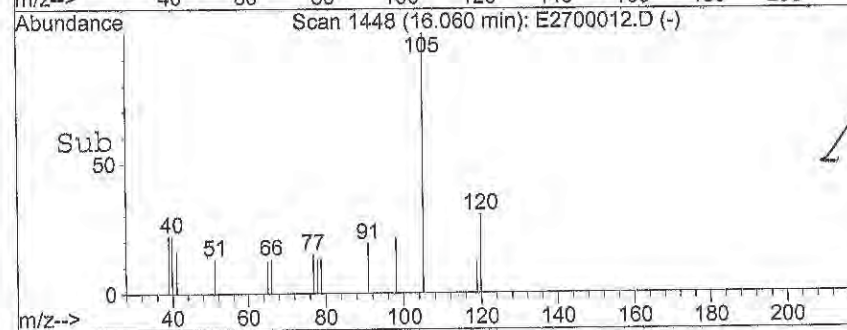
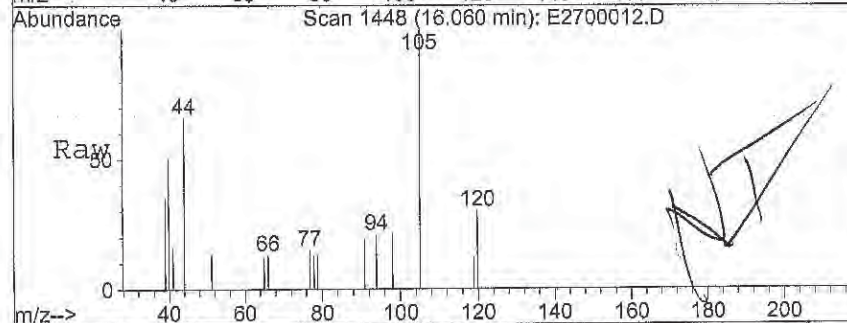
Tgt Ion: 119 Resp: 653
Ion Ratio Lower Upper
119 100
91 114.7 56.3 84.5#
134 0.0 16.1 24.1#





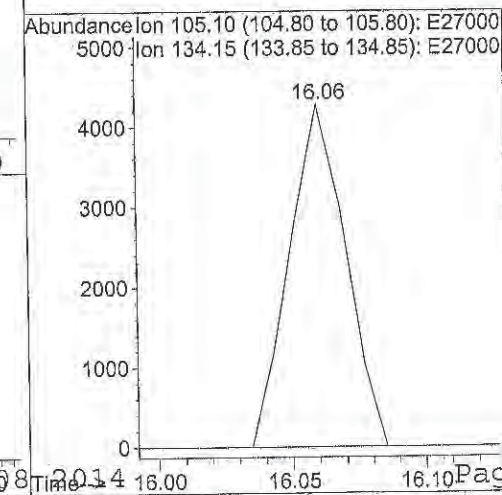
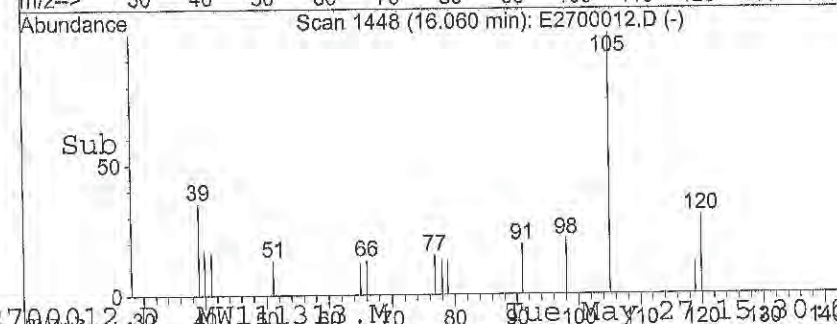
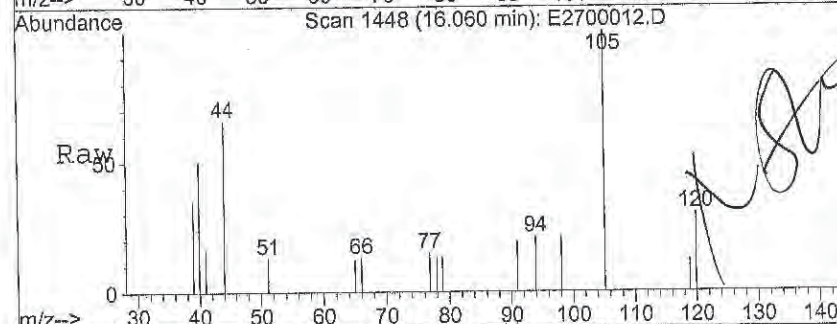
#67
1,2,4-Trimethylbenzene
Concen: 0.35 ug/L
RT: 16.06 min Scan# 1448
Delta R.T. -0.00 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

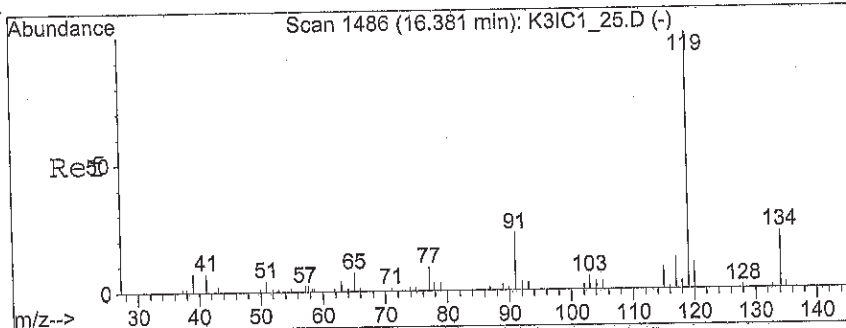
Tgt Ion:105 Resp: 6239
Ion Ratio Lower Upper
105 100
120 40.3 33.8 50.8



#68
sec-Butylbenzene
Concen: 0.27 ug/L
RT: 16.06 min Scan# 1448
Delta R.T. -0.19 min
Lab File: E2700012.D
Acq: 27 May 2014 3:05 pm

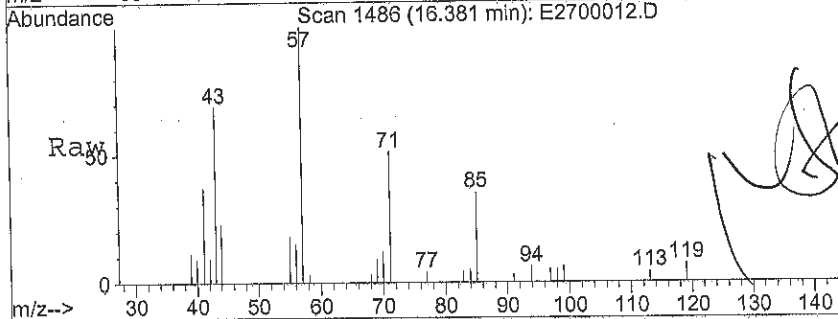
Tgt Ion:105 Resp: 6239
Ion Ratio Lower Upper
105 100
134 0.0 13.0 19.6#





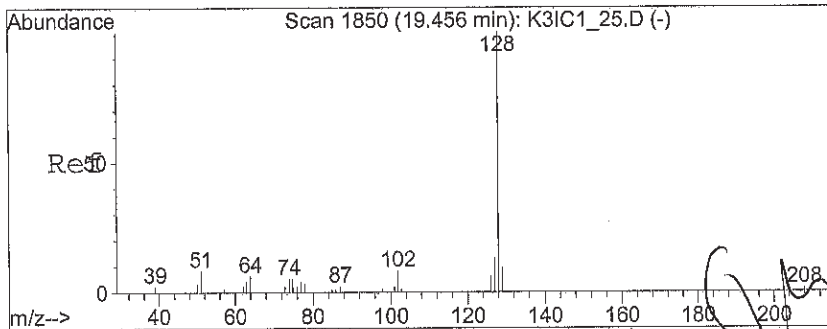
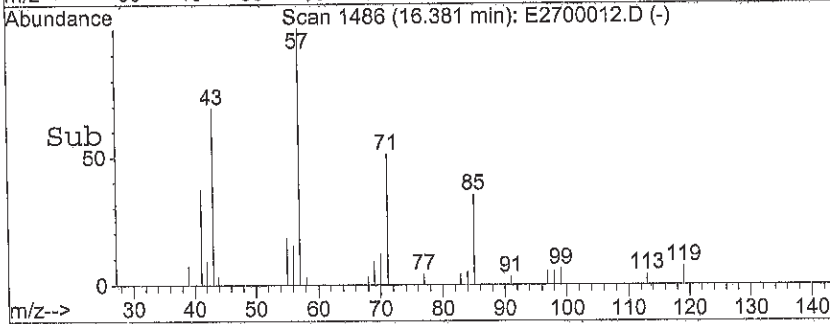
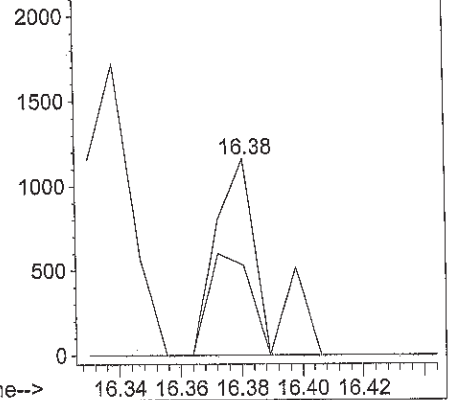
#69
 p-Isopropyltoluene
 Concen: 0.07 ug/L
 RT: 16.38 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: E2700012.D
 Acq: 27 May 2014 3:05 pm

Tgt Ion: 119 Resp: 1253
 Ion Ratio Lower Upper
 119 100
 134 0.0 17.4 26.2#
 91 45.6 19.6 29.4#



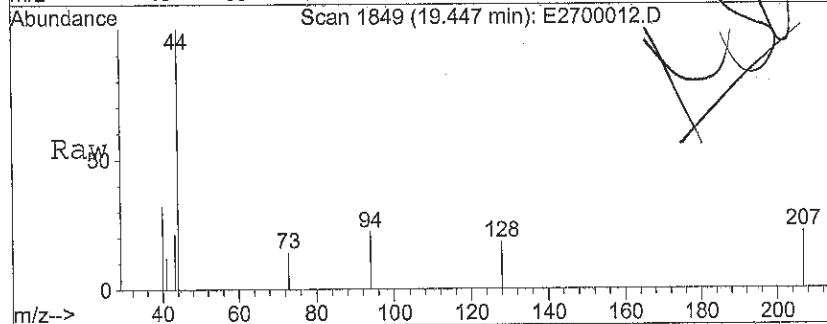
Abundance

Ion 119.15 (118.85 to 119.85): E27000
 Ion 134.15 (133.85 to 134.85): E27000
 Ion 91.10 (90.80 to 91.80): E2700012.



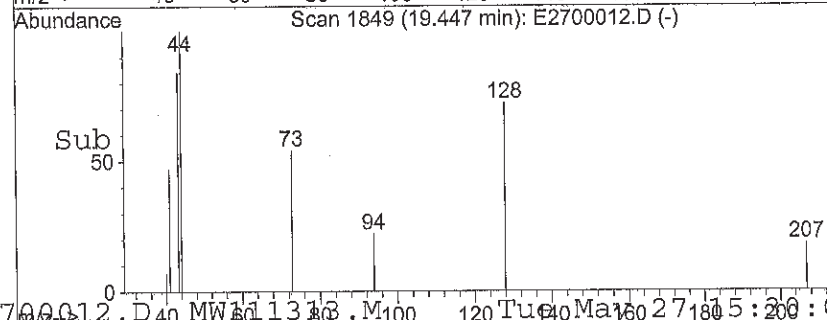
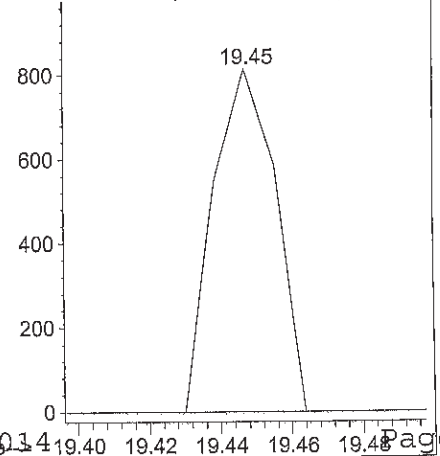
#77
 Naphthalene
 Concen: 0.07 ug/L
 RT: 19.45 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: E2700012.D
 Acq: 27 May 2014 3:05 pm

Tgt Ion: 128 Resp: 986



Abundance

Ion 128.10 (127.80 to 128.80): E27000



Data File : C:\HPCHEM\1\DATA\052714L3\E2700012.D

Vial: 3

Acq On : 27 May 2014 3:05 pm

Operator: DN

Sample : 3E42701-09

Inst : GC/MS Ins

Misc : 100cc SVL-512-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 15:29 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1679743	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.91	117	1298849	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	682899	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	467074	10.69	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	85.52%
3) Chloroform-d (SU6)	9.18	84	719371	11.48	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	91.84%
4) Methylene Chloride-d2 (SU5)	7.06	86	406063	11.08	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	88.64%
5) 1,2-Dichloroethane-d4 (SU2)	9.89	65	464879	15.57	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	124.56%
6) Benzene-d6 (SU7)	9.93	84	1377983	10.45	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	83.60%
8) Toluene-d8 (SU3)	12.21	98	1463111	11.87	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.96%
9) 4-Bromofluorobenzene (SU4)	15.22	95	714057	14.04	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	112.32%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700012.D SS072713.M

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Page 1

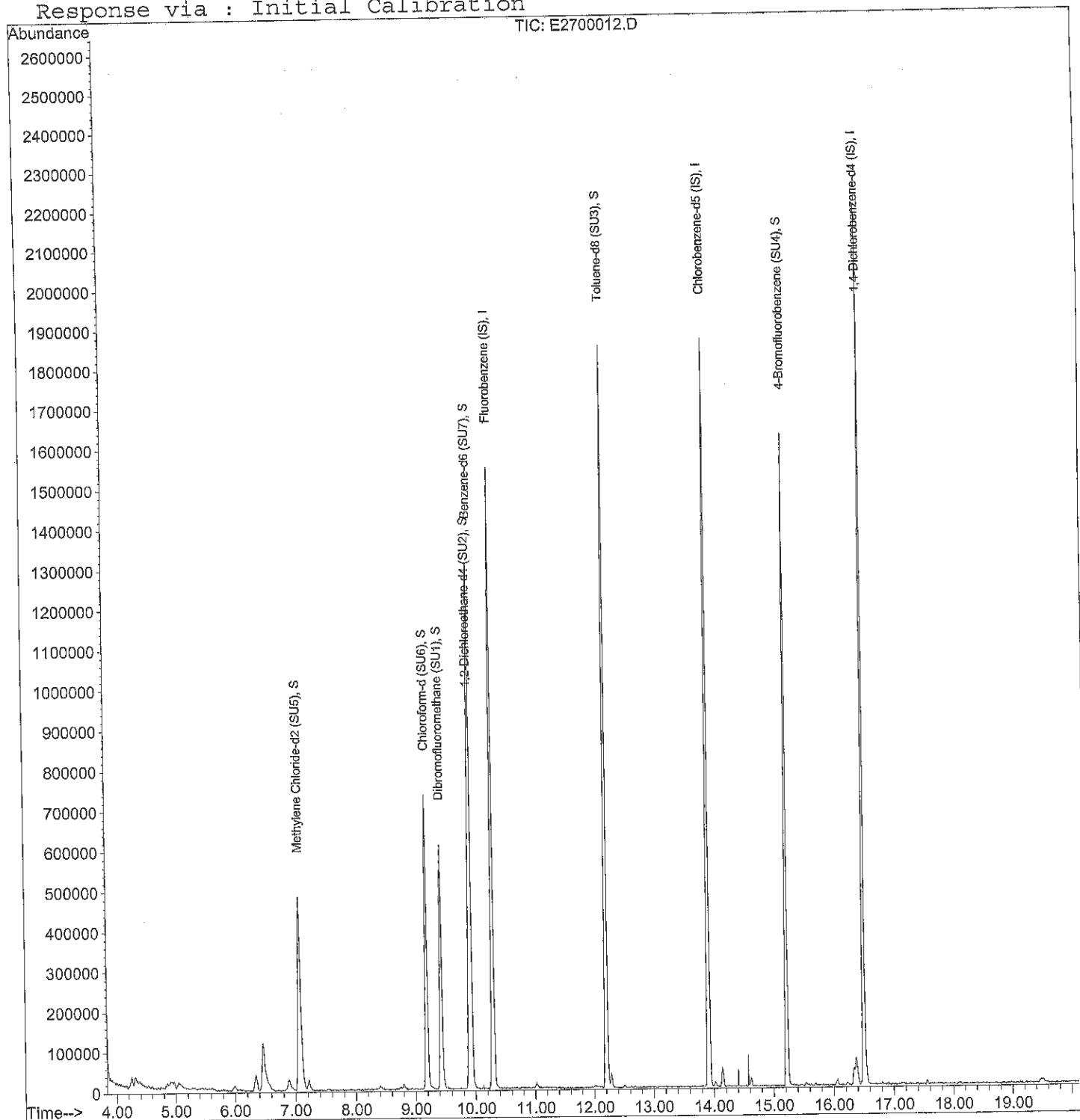
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700012.D
Acq On : 27 May 2014 3:05 pm
Sample : 3E42701-09
Misc : 100cc SVL-512-SA5D-SV-5.0-6.0
MS Integration Params: rteint.p
Quant Time: May 27 15:29 19114

Vial: 3
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
Last Update : Mon Nov 18 10:31:39 2013
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E2700013.D

Vial: 4

Acq On : 27 May 2014 3:35 pm

Operator: DN

Sample : 3E42701-10

Inst : GC/MS Ins

Misc : 100cc SVL-512-SA5D-SV-11.0-12.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 16:09 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1519594	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1165882	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	627293	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	429643	11.33	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	90.64%
28) 1,2-Dichloroethane-d4 (SU2)	9.89	65	420567	11.67	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	93.36%
39) Toluene-d8 (SU3)	12.21	98	1328718	12.22	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	97.76%
58) 4-Bromofluorobenzene (SU4)	15.22	95	632605	13.27	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	106.16%

Target Compounds

					Qvalue	
3) (F12) Dichlorodifluorometh	4.11	85	659	0.18 ug/L	#	44
4) Chloromethane	4.40	50	5002	0.74 ug/L	#	54
6) Bromomethane	5.05	96	4745	1.06 ug/L	#	96
7) Chloroethane	5.38	64	585	1.15 ug/L	#	96
9) (F113) 1,1,2-Trichloro-tri	6.35	151	14858	4.97 ug/L	0.0994	96
11) Acetone	6.46	58	10313	13.53 ug/L	INT	99
12) (IPA) Leak Check Compound	6.46	45	242083	1325.75 ug/L	INT	85
13) Carbon disulfide	6.84	76	40965	3.24 ug/L	INT	100
14) Methylene Chloride	7.06	84	5752	1.38 ug/L	#	1
15) (TBA) tert-Butanol	7.15	59	608	2.35 ug/L	#	77
22) (DIPE) Diisopropyl Ether	8.09	45	302	0.03 ug/L	#	48
24) Chloroform	9.22	83	1421	0.18 ug/L	#	1
25) (ETBE) 2-ethoxy 2-methyl p	8.37	59	556	0.05 ug/L	#	44
31) Benzene	9.98	78	15569	1.09 ug/L	#	79
32) 1,2-Dichloroethane	9.93	62	5923	1.17 ug/L	#	1
34) 1,2-Dichloropropane	11.03	63	277	0.08 ug/L	#	44
40) (MIBK) 4-Methyl-2-Pentanone	12.12	43	293	0.13 ug/L	#	100
41) Toluene	12.28	91	127014	7.99 ug/L	0.199	98
42) trans-1,3-Dichloropropene	12.28	75	353	0.07 ug/L	#	1
46) 2-Hexanone	12.99	43	626	0.25 ug/L	#	37
51) Ethylbenzene	14.02	91	17785	0.98 ug/L	0.0196	99
52) m,p-Xylenes	14.14	106	22792	3.55 ug/L	0.071	96

(#)=qualifier out of range (m)=manual integration

E2700013.D MW111313.M

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Page 1

Data File : C:\HPCHEM\1\DATA\052714L3\E2700013.D

Vial: 4

Acq On : 27 May 2014 3:35 pm

Operator: DN

Sample : 3E42701-10

Inst : GC/MS Ins

Misc : 100cc SVL-512-SA5D-SV-11.0-12.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 16:09 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
53) o-Xylene	14.62	106	5633	0.89 ug/L	#0.178 64
54) Styrene	14.63	104	1824	-0.67 ug/L	#M 17
56) Isopropylbenzene	15.00	105	516	0.03 ug/L	# 55
57) 1,2,3-Trichloropropane	15.32	75	276	0.06 ug/L	# 36
62) n-Propylbenzene	15.45	91	3582	0.14 ug/L	# 56
63) 2-Chlorotoluene	15.54	91	298	0.02 ug/L	#M 45
64) 1,3,5-Trimethylbenzene	15.62	105	1946	0.12 ug/L	# 55
65) 4-Chlorotoluene	15.54	91	298	0.02 ug/L	# 44
66) tert-Butylbenzene	16.05	119	430	0.03 ug/L	# 86
67) 1,2,4-Trimethylbenzene	16.06	105	7134	0.44 ug/L	#0.0088 87
68) sec-Butylbenzene	16.06	105	7134	0.34 ug/L	#M 62
69) p-Isopropyltoluene	16.37	119	1248	0.07 ug/L	# 52
72) n-Butylbenzene	16.80	91	332	0.02 ug/L	# 30
77) Naphthalene	19.46	128	359	0.03 ug/L	# 100

(#) = qualifier out of range (m) = manual integration

E2700013.D MW111313.M

Tue May 27 16:09:39 2014

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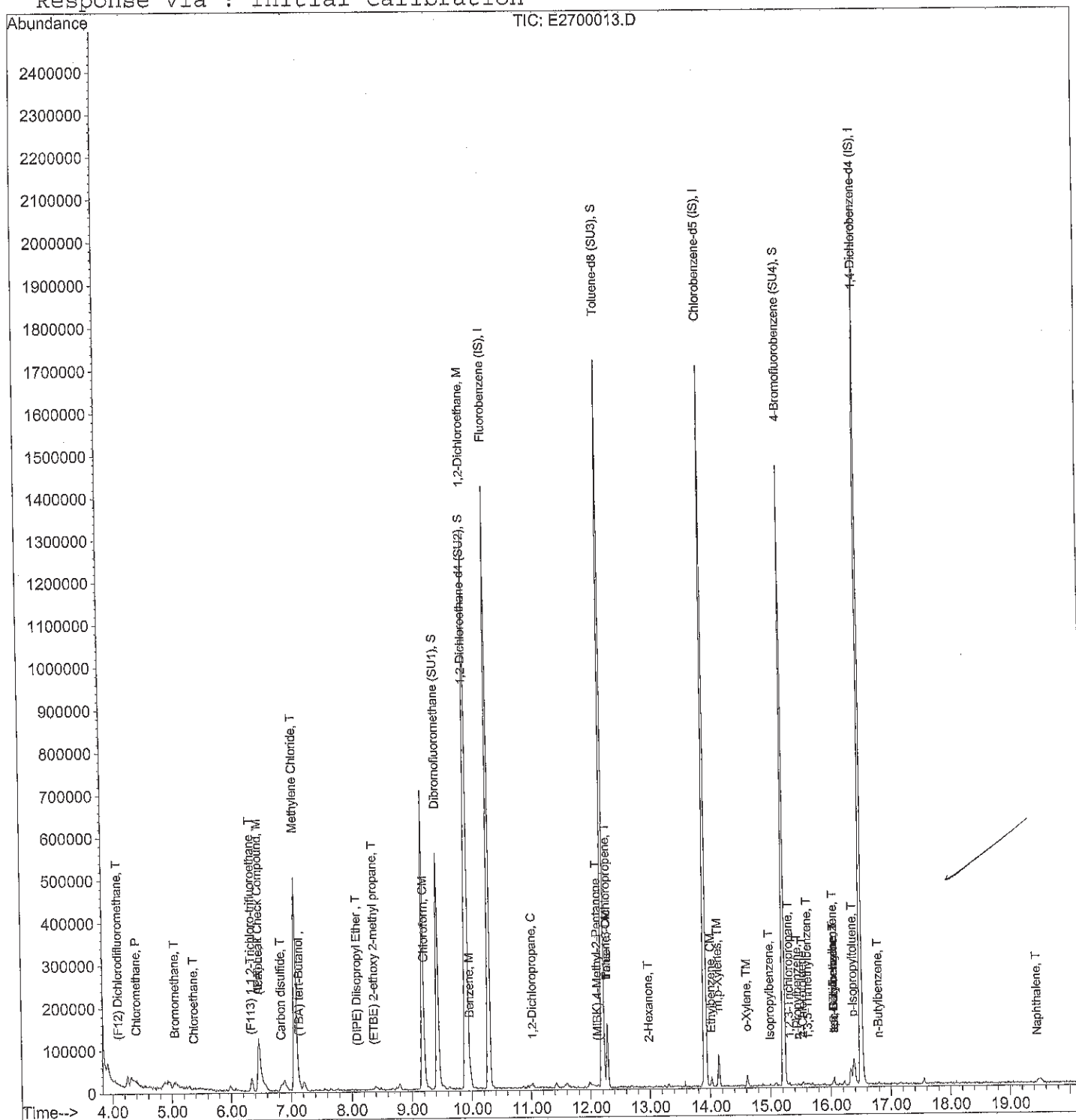
Quantitation Report

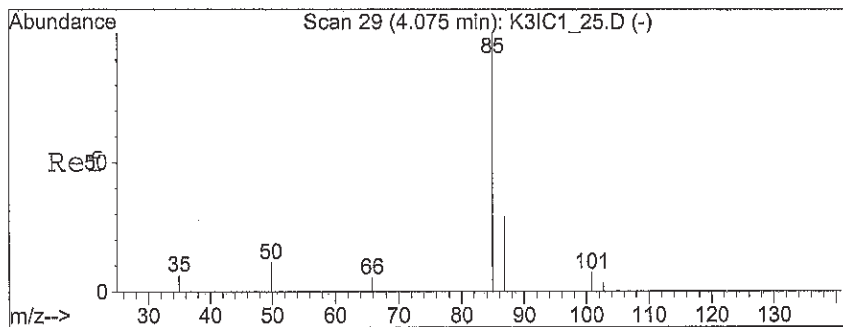
Data File : C:\HPCHEM\1\DATA\052714L3\E2700013.D
Acq On : 27 May 2014 3:35 pm
Sample : 3E42701-10
Misc : 100cc SVL-512-SA5D-SV-11.0-12.0
MS Integration Params: rteint.p
Quant Time: May 27 16:09 19114

Vial: 4
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

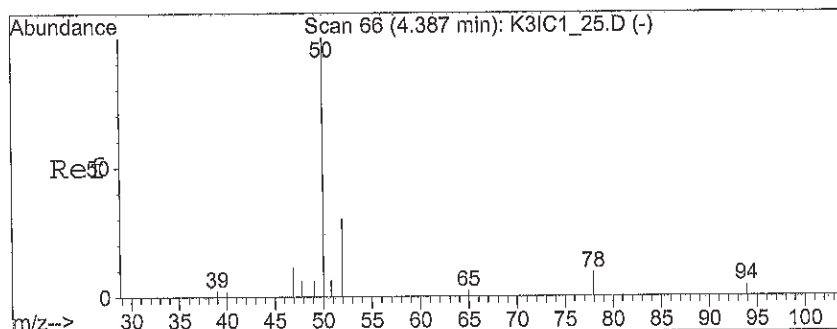
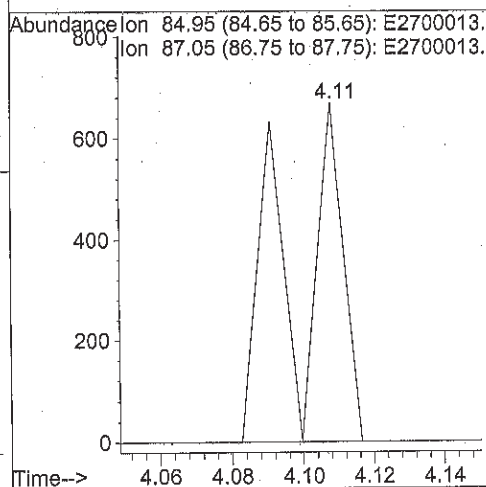
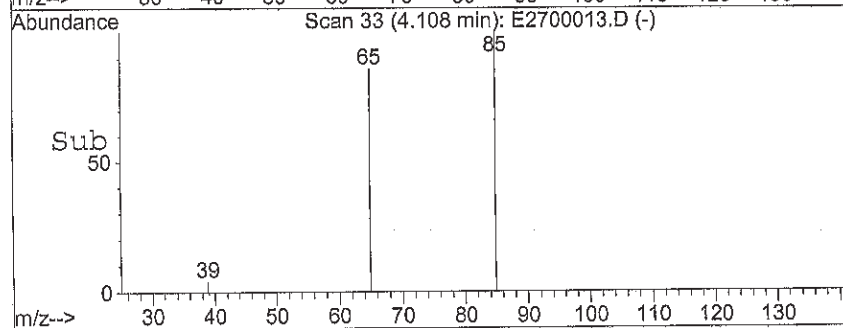
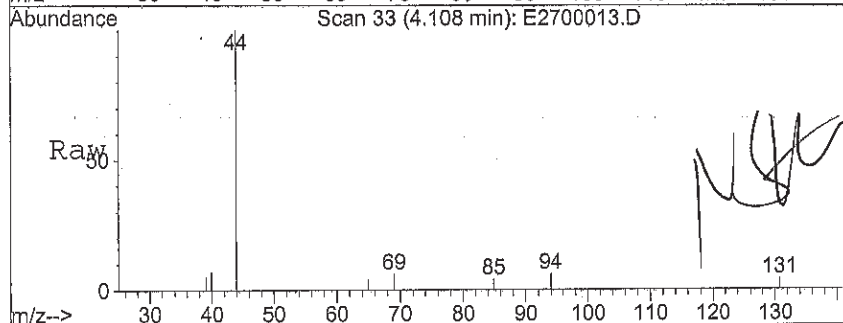
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration





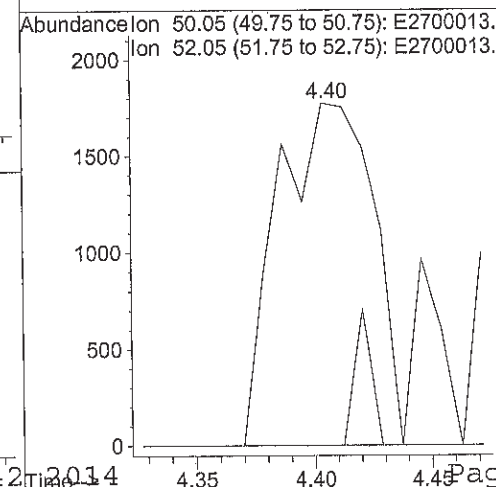
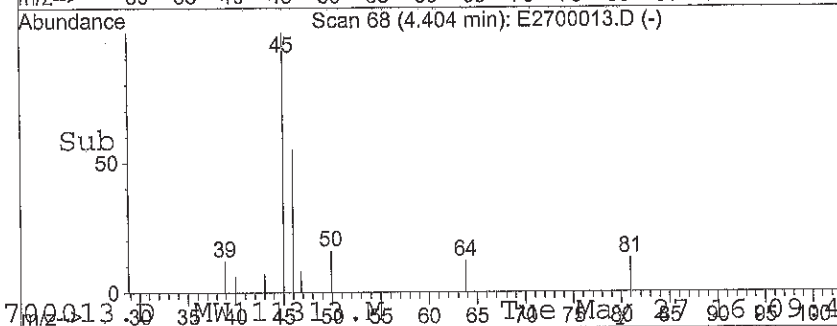
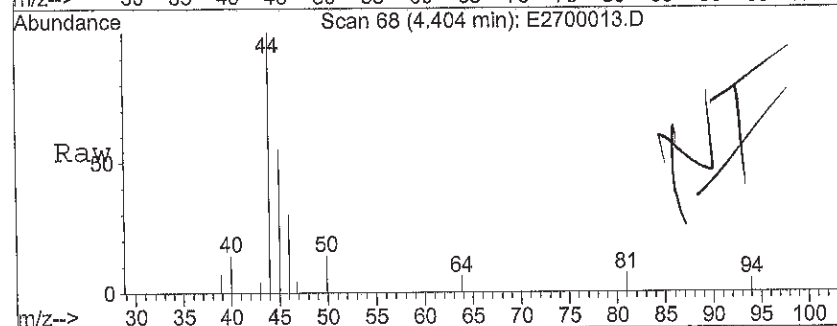
#3
 (F12) Dichlorodifluoromethane
 Concen: 0.18 ug/L
 RT: 4.11 min Scan# 33
 Delta R.T. 0.03 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

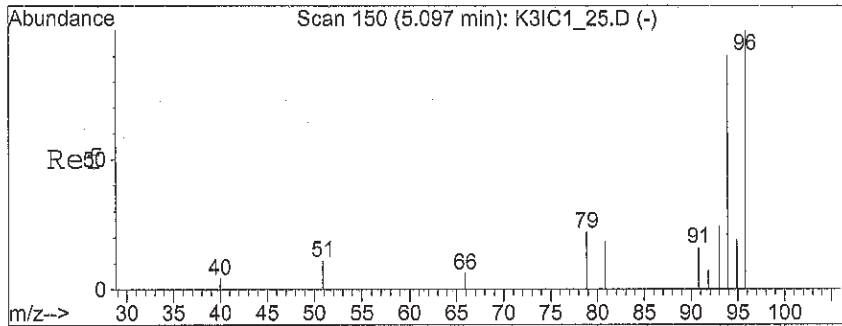
Tgt Ion: 85 Resp: 659
 Ion Ratio Lower Upper
 85 100
 87 0.0 24.6 37.0#



#4
 Chloromethane
 Concen: 0.74 ug/L
 RT: 4.40 min Scan# 68
 Delta R.T. 0.02 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

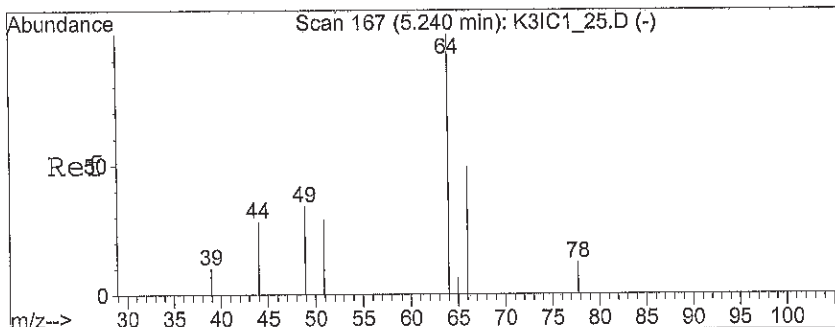
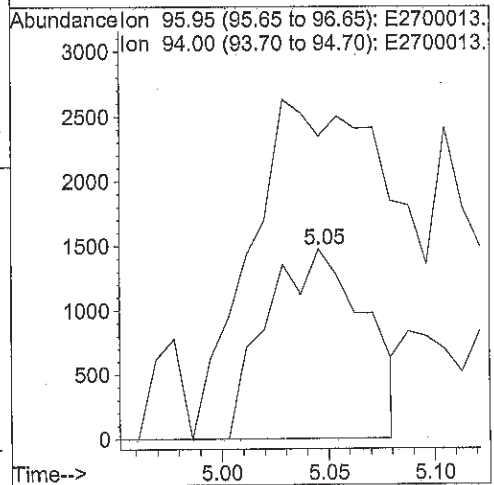
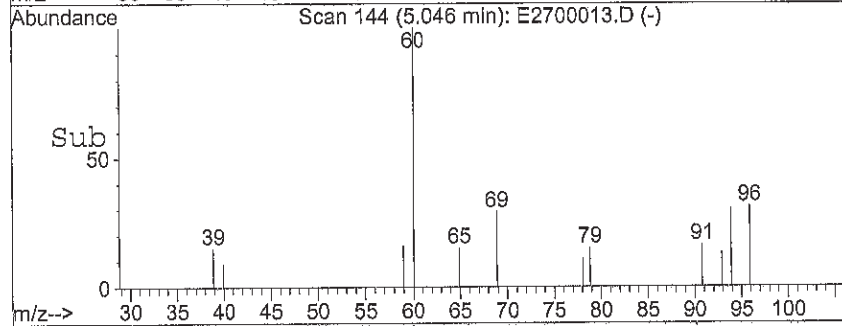
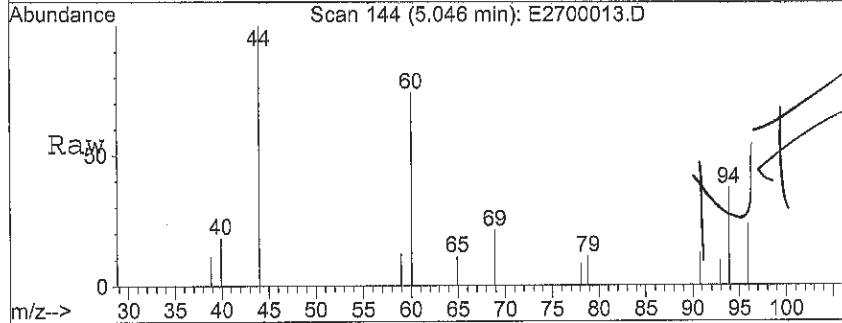
Tgt Ion: 50 Resp: 5002
 Ion Ratio Lower Upper
 50 100
 52 7.2 26.9 40.3#





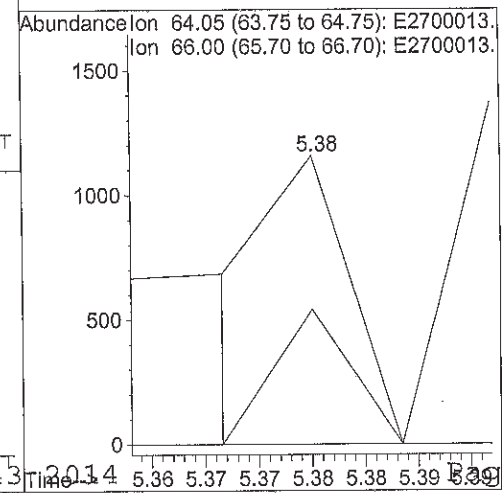
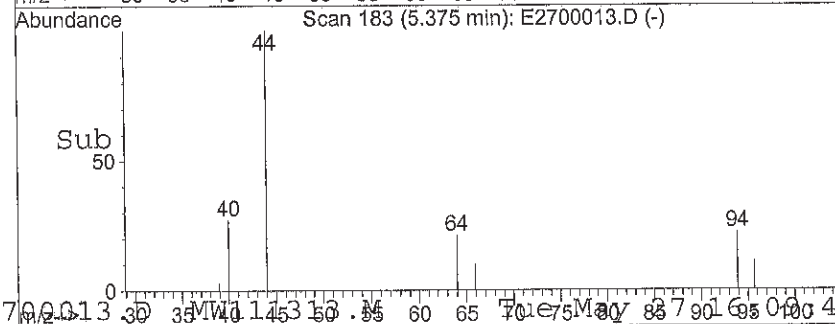
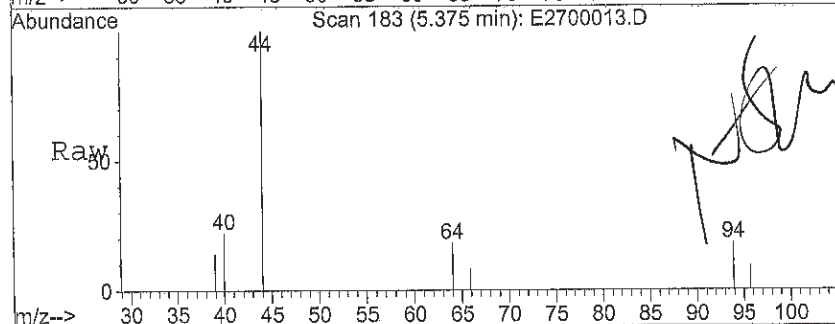
#6
 Bromomethane
 Concen: 1.06 ug/L
 RT: 5.05 min Scan# 144
 Delta R.T. -0.05 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

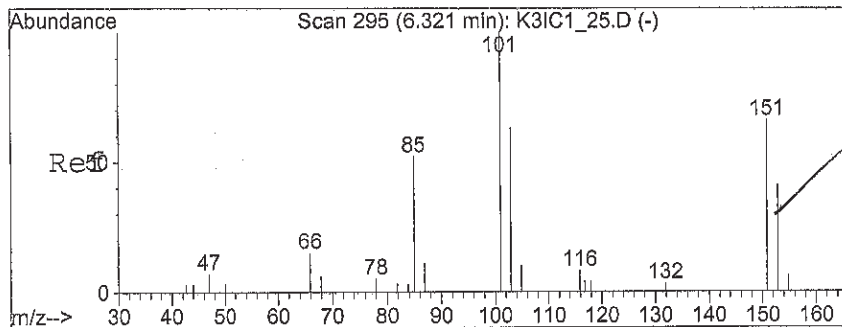
Tgt Ion: 96 Resp: 4745
 Ion Ratio Lower Upper
 96 100
 94 130.3 101.0 151.4



#7
 Chloroethane
 Concen: 1.15 ug/L
 RT: 5.38 min Scan# 183
 Delta R.T. 0.14 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

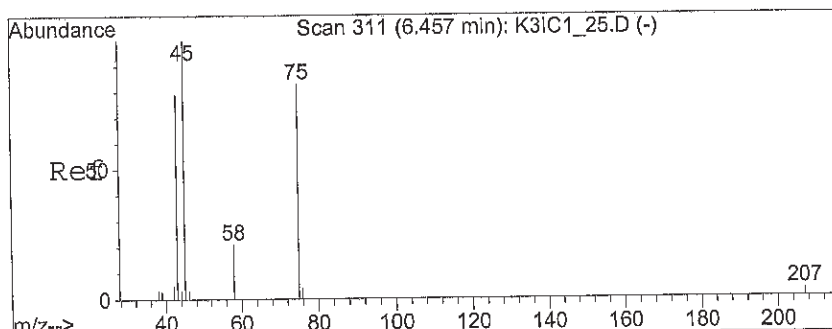
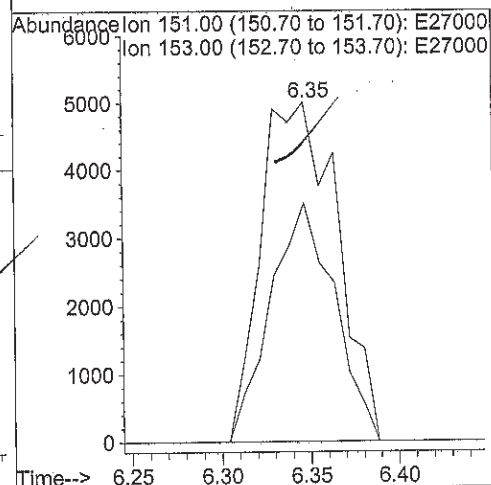
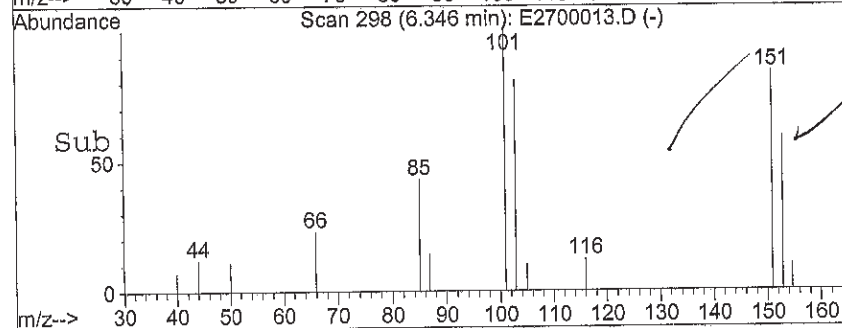
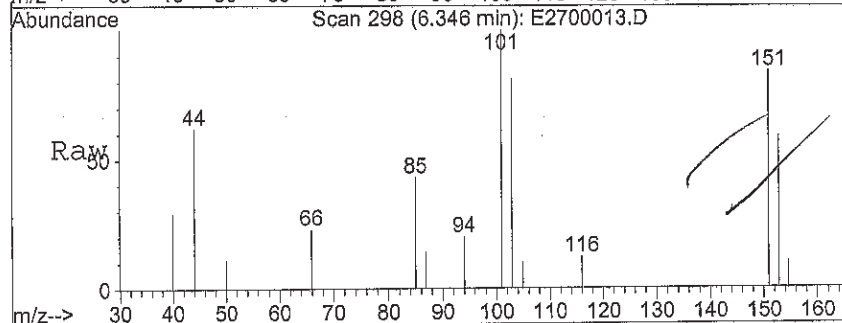
Tgt Ion: 64 Resp: 585
 Ion Ratio Lower Upper
 64 100
 66 46.8 35.4 53.0





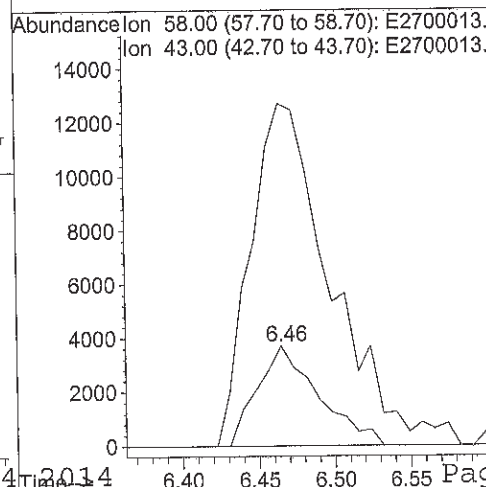
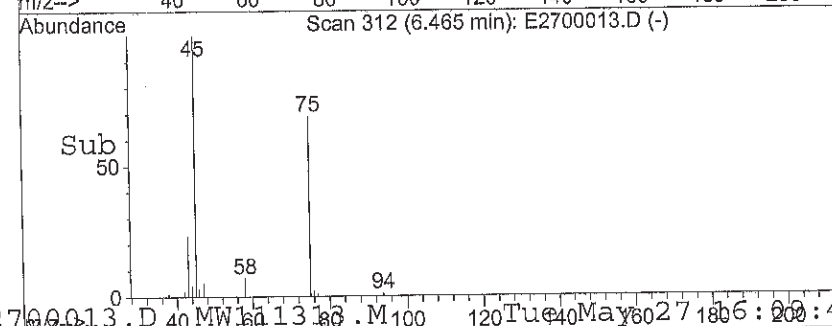
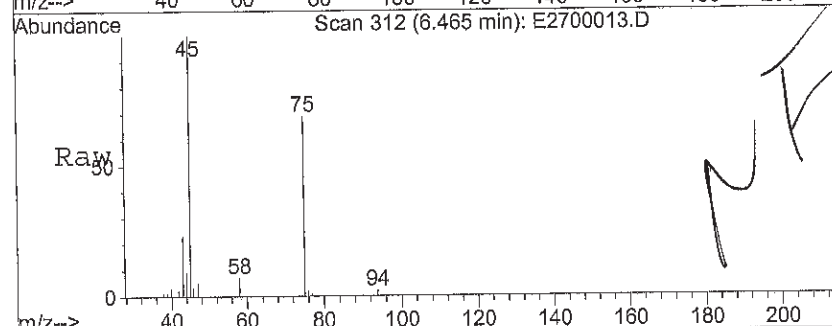
#9
(F113) 1,1,2-Trichloro-trifluor
Concen: 4.97 ug/L
RT: 6.35 min Scan# 298
Delta R.T. 0.03 min
Lab File: E2700013.D
Acq: 27 May 2014 3:35 pm

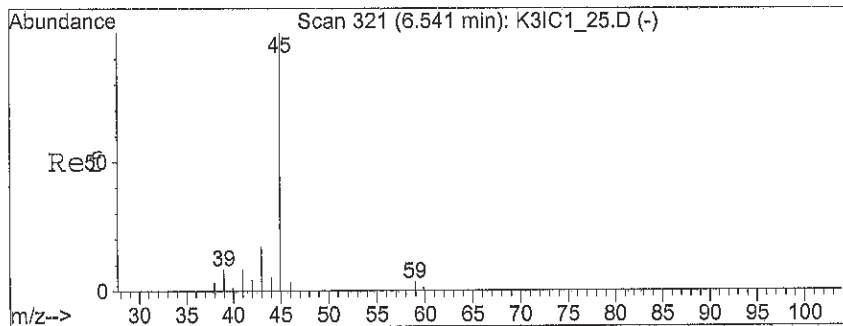
Tgt Ion: 151 Resp: 14858
Ion Ratio Lower Upper
151 100
153 59.0 49.6 74.4



#11
Acetone
Concen: 13.53 ug/L
RT: 6.46 min Scan# 312
Delta R.T. 0.01 min
Lab File: E2700013.D
Acq: 27 May 2014 3:35 pm

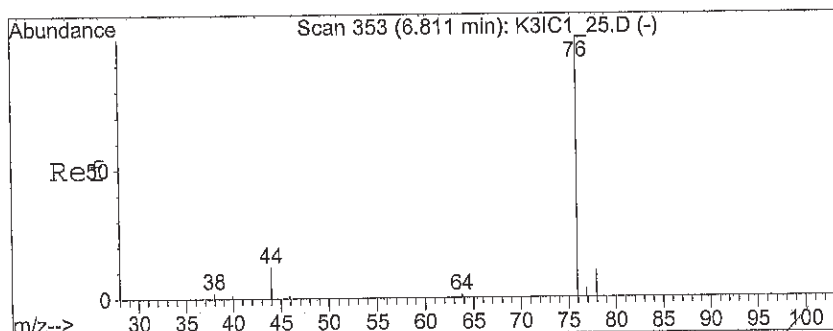
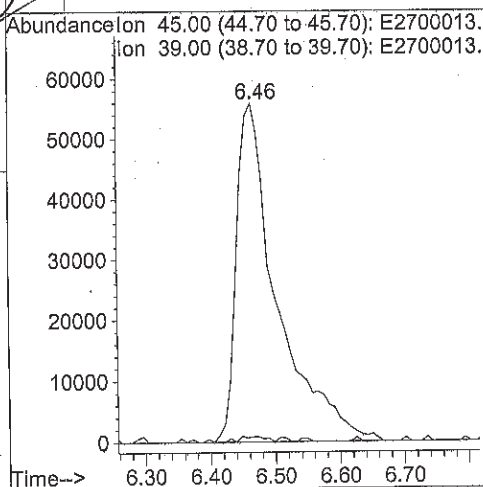
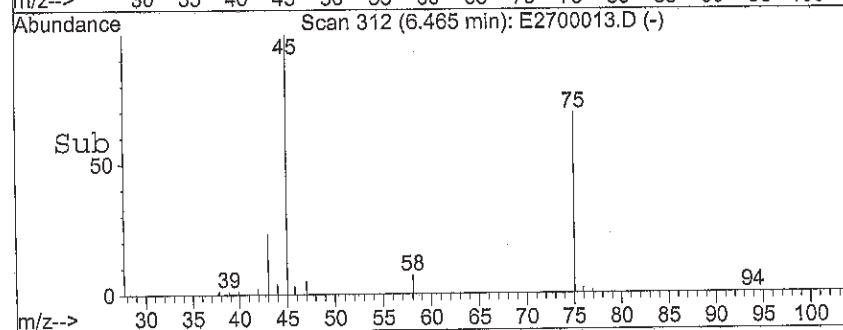
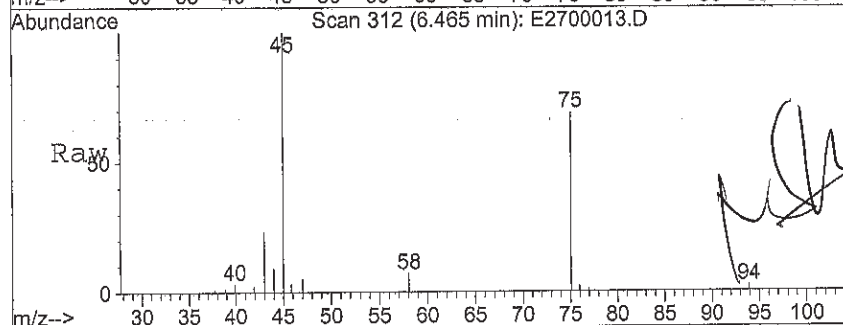
Tgt Ion: 58 Resp: 10313
Ion Ratio Lower Upper
58 100
43 452.6 360.9 541.3





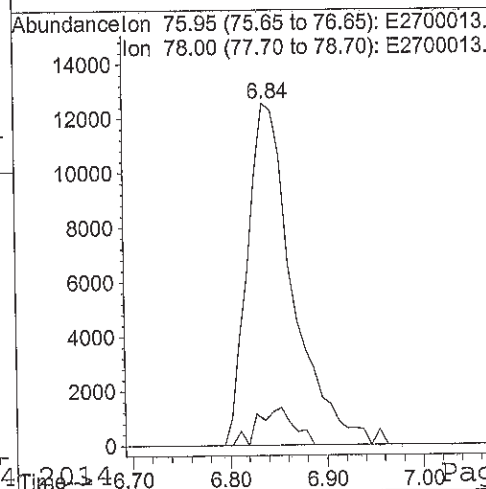
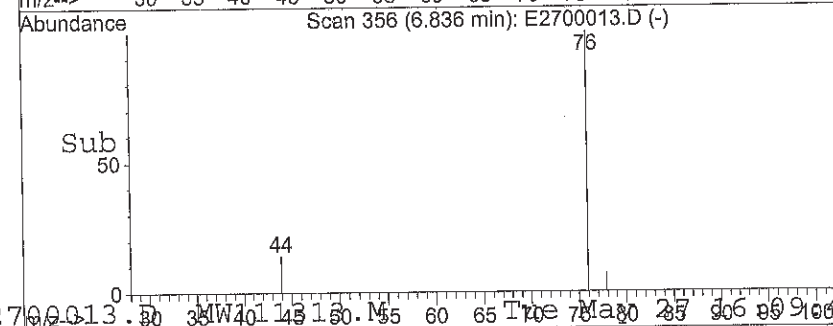
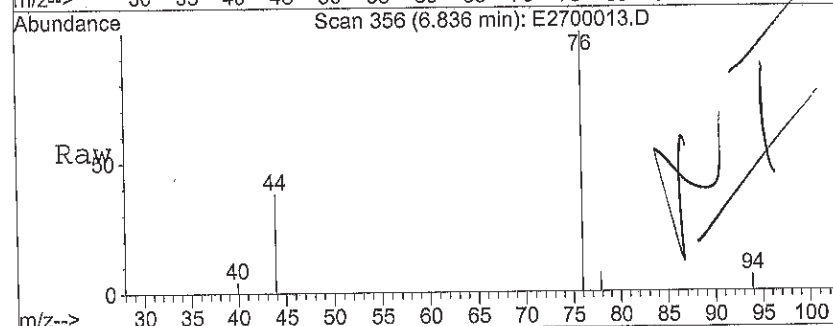
#12
 (IPA) Leak Check Compound
 Concen: 1325.75 ug/L
 RT: 6.46 min Scan# 312
 Delta R.T. -0.08 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

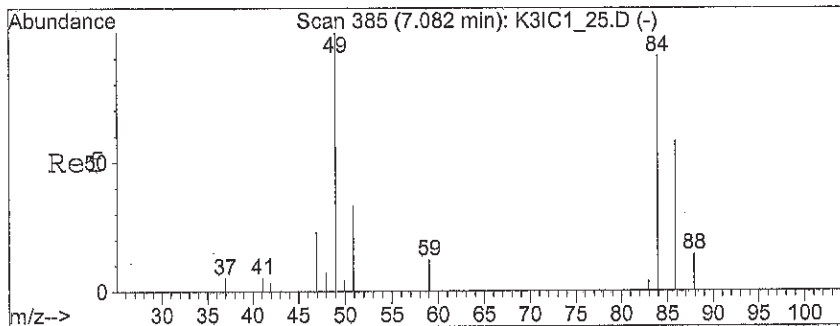
Tgt Ion: 45 Resp: 242083
 Ion Ratio Lower Upper
 45 100
 39 1.1 4.9 7.3#



#13
 Carbon disulfide
 Concen: 3.24 ug/L
 RT: 6.84 min Scan# 356
 Delta R.T. 0.02 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

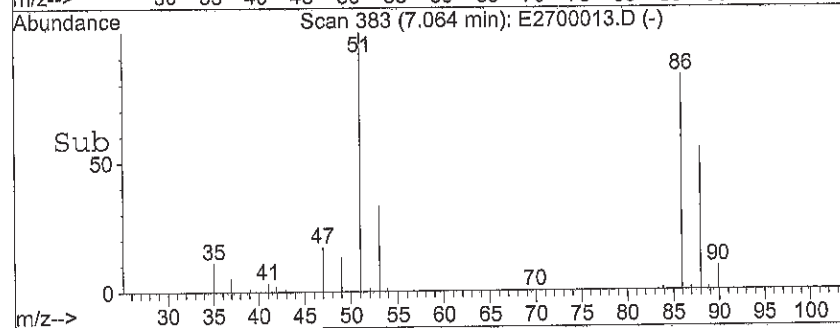
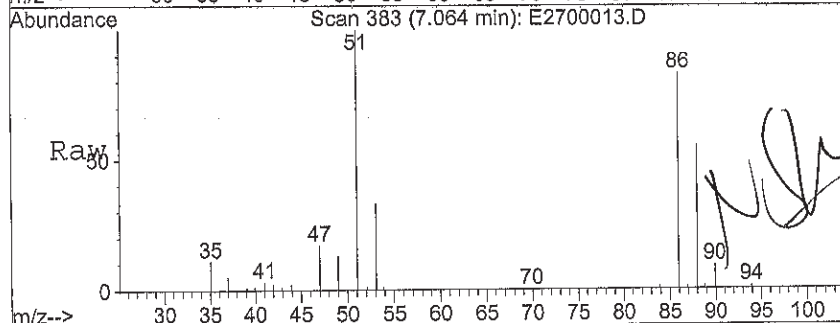
Tgt Ion: 76 Resp: 40965
 Ion Ratio Lower Upper
 76 100
 78 8.7 7.0 10.4



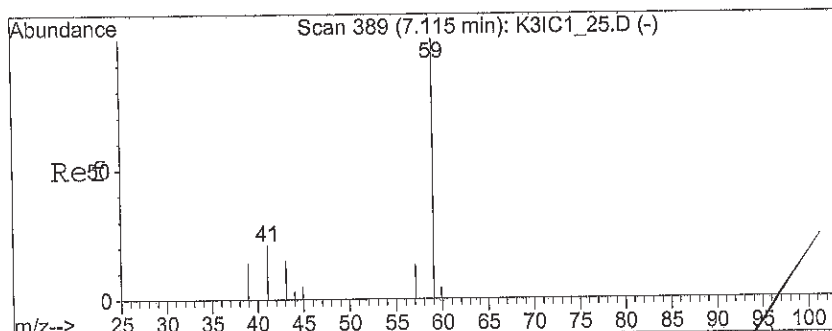
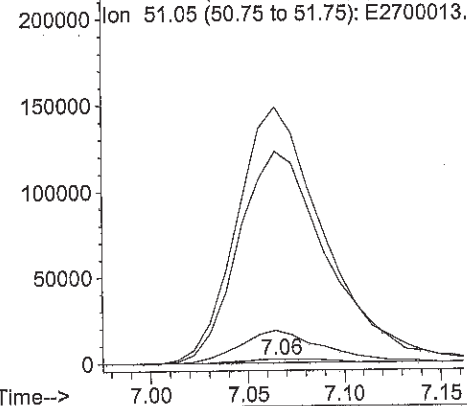


#14
Methylene Chloride
Concen: 1.38 ug/L
RT: 7.06 min Scan# 383
Delta R.T. -0.02 min
Lab File: E2700013.D
Acq: 27 May 2014 3:35 pm

Tgt Ion: 84 Resp: 5752
Ion Ratio Lower Upper
84 100
49 956.8 89.8 134.6#
86 6953.1 51.1 76.7#
51 8227.7 28.5 42.7#

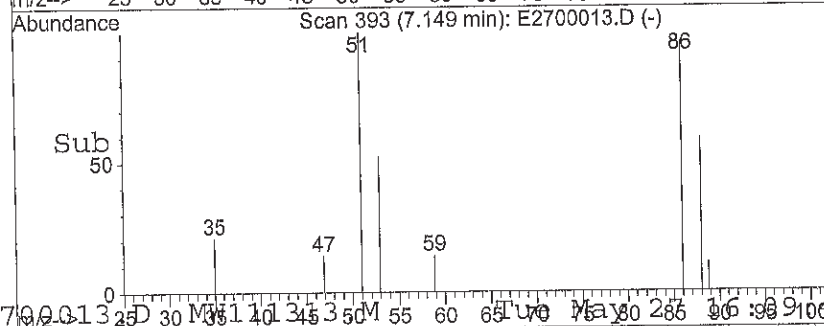
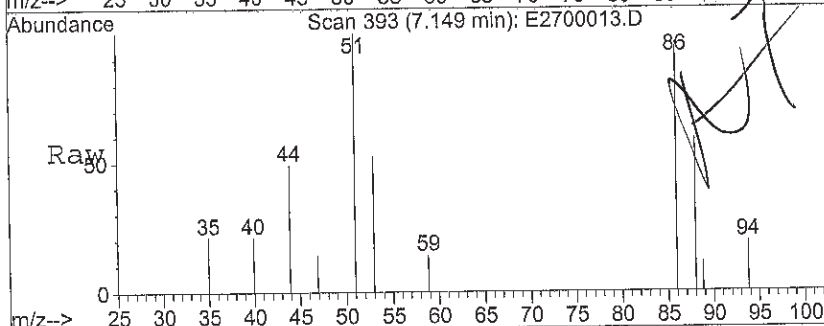


Abundance Ion 83.95 (83.65 to 84.65): E2700013.
Ion 48.95 (48.65 to 49.65): E2700013.
Ion 85.95 (85.65 to 86.65): E2700013.
Ion 51.05 (50.75 to 51.75): E2700013.

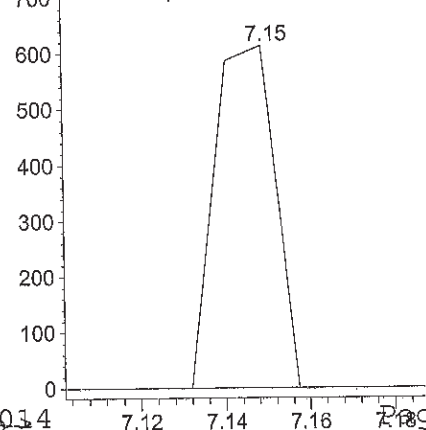


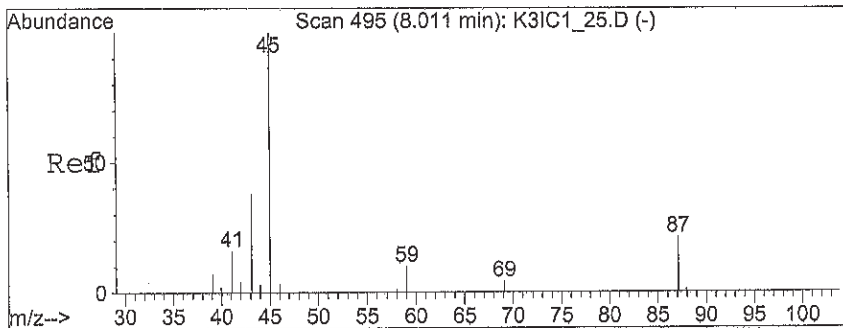
#15
(TBA) tert-Butanol
Concen: 2.35 ug/L
RT: 7.15 min Scan# 393
Delta R.T. 0.03 min
Lab File: E2700013.D
Acq: 27 May 2014 3:35 pm

Tgt Ion: 59 Resp: 608
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#



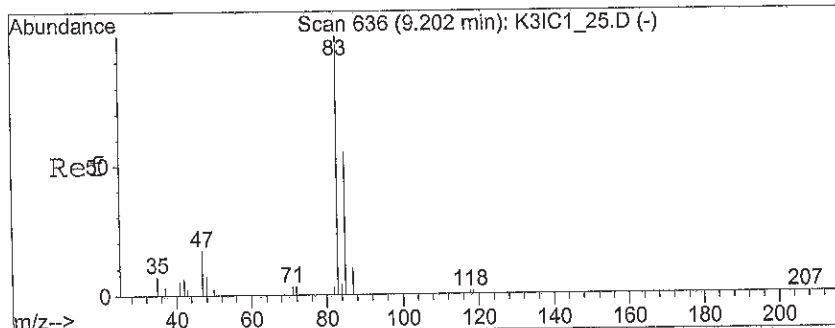
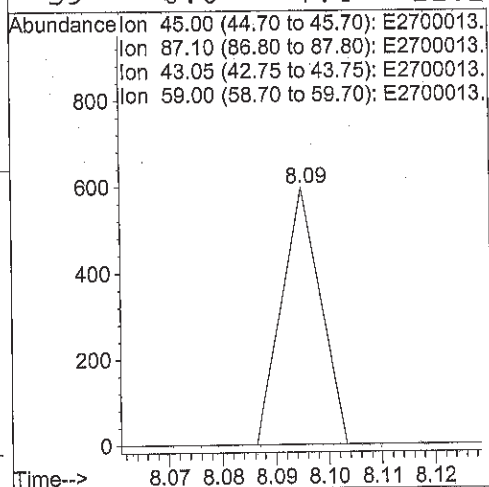
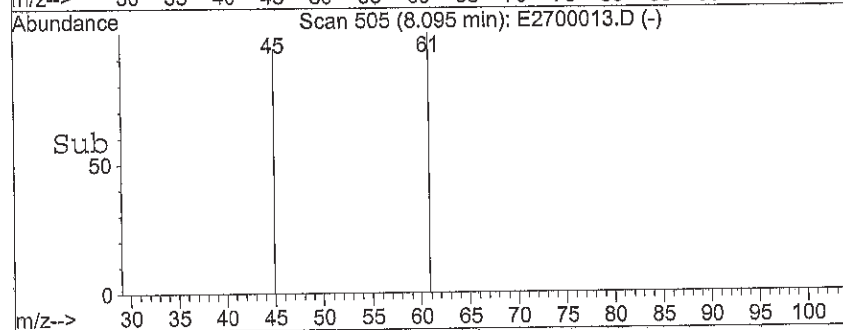
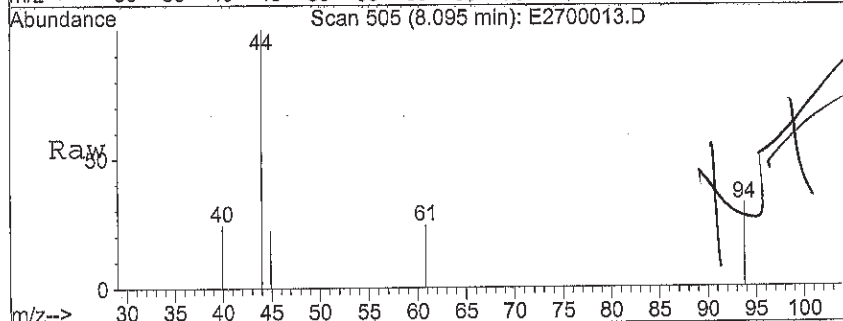
Abundance Ion 59.00 (58.70 to 59.70): E2700013.
Ion 57.00 (56.70 to 57.70): E2700013.





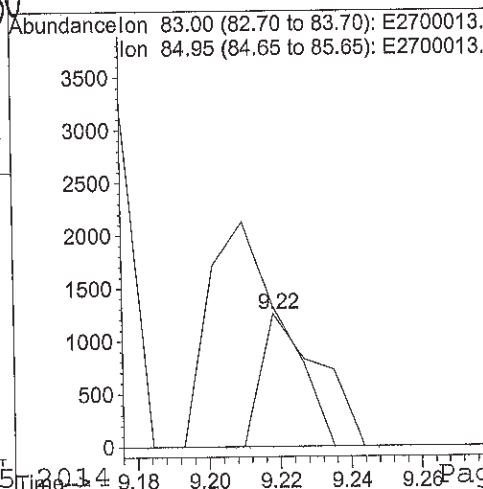
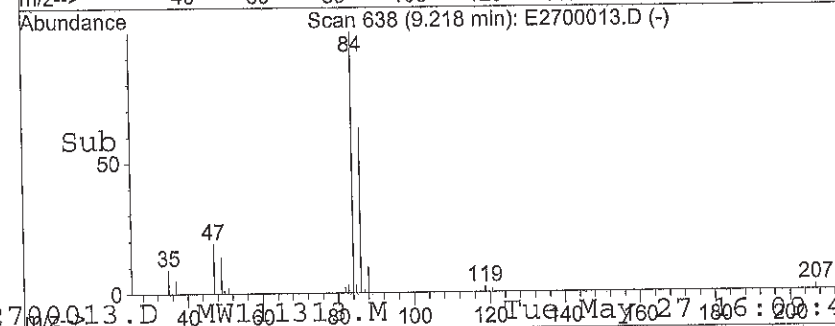
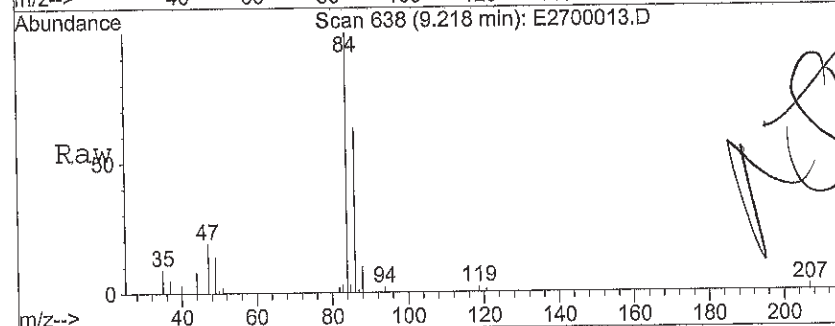
#22
 (DIPE) Diisopropyl Ether
 Concen: 0.03 ug/L
 RT: 8.09 min Scan# 505
 Delta R.T. 0.08 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

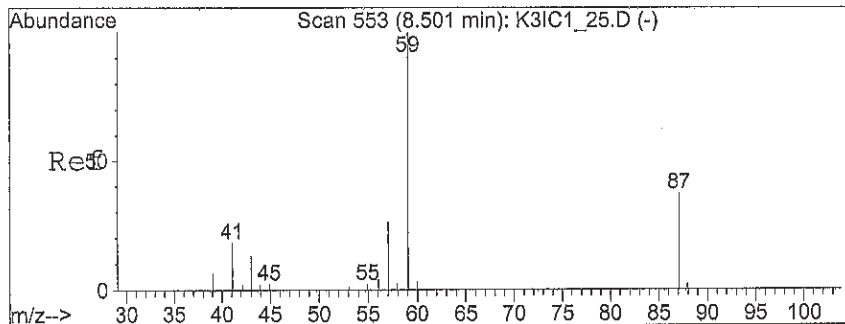
Tgt Ion:	45	Resp:	302
Ion	Ratio	Lower	Upper
45	100		
87	0.0	17.0	25.6#
43	0.0	30.5	45.7#
59	0.0	7.4	11.2#



#24
 Chloroform
 Concen: 0.18 ug/L
 RT: 9.22 min Scan# 638
 Delta R.T. 0.02 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

Tgt Ion:	83	Resp:	1421
Ion	Ratio	Lower	Upper
83	100		
85	212.0	51.8	77.6#





#25

(ETBE) 2-ethoxy 2-methyl propan

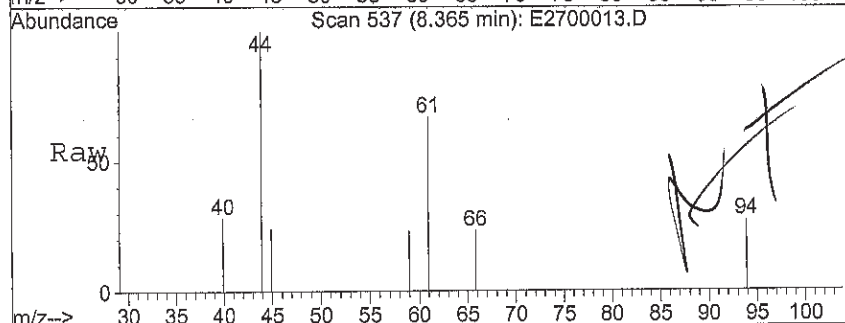
Concen: 0.05 ug/L

RT: 8.37 min Scan# 537

Delta R.T. -0.14 min

Lab File: E2700013.D

Acq: 27 May 2014 3:35 pm



Tgt Ion: 59 Resp: 556

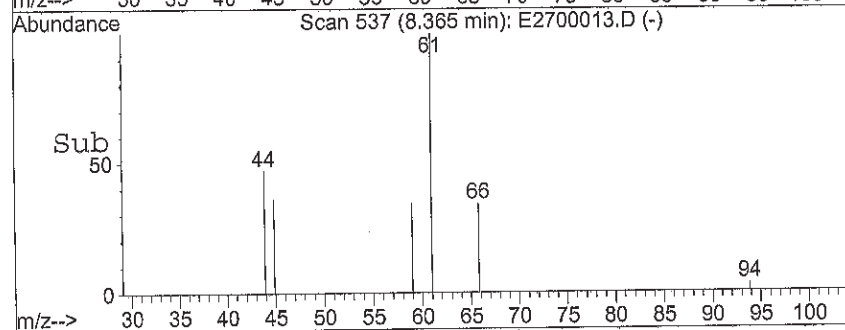
Ion Ratio Lower Upper

59 100

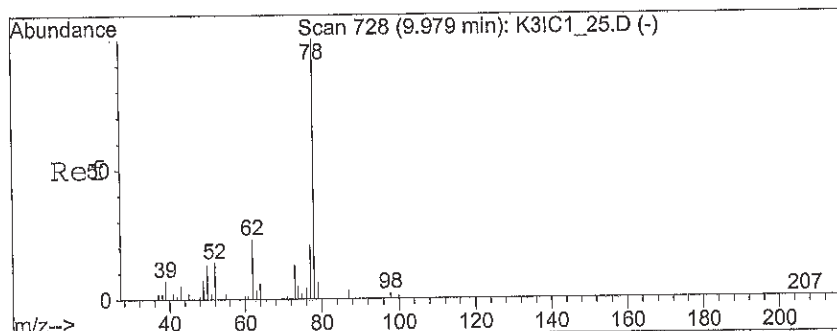
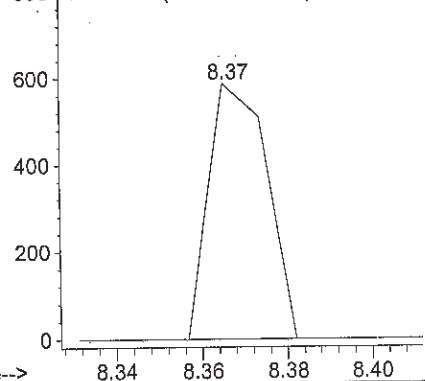
87 0.0 27.8 41.8#

57 0.0 19.8 29.6#

77 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): E2700013.
Ion 87.10 (86.80 to 87.80): E2700013.
Ion 57.00 (56.70 to 57.70): E2700013.
Ion 76.95 (76.65 to 77.65): E2700013.



#31

Benzene

Concen: 1.09 ug/L

RT: 9.98 min Scan# 728

Delta R.T. -0.00 min

Lab File: E2700013.D

Acq: 27 May 2014 3:35 pm

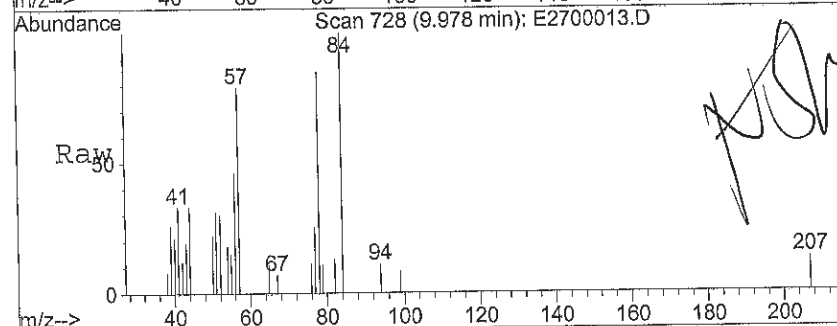
Tgt Ion: 78 Resp: 15569

Ion Ratio Lower Upper

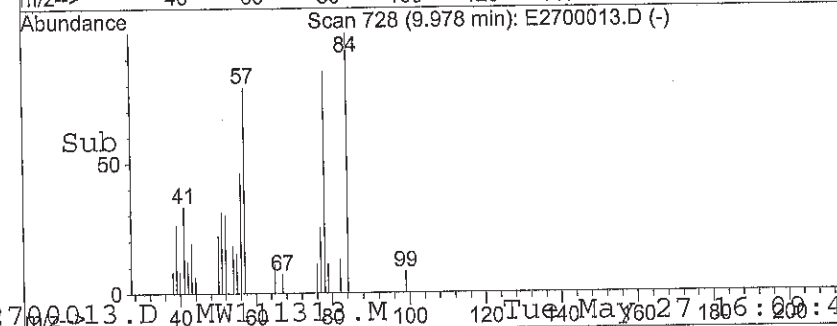
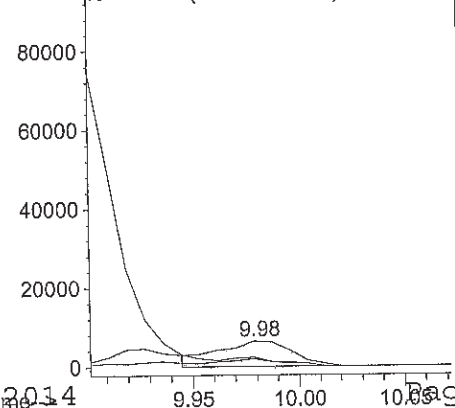
78 100

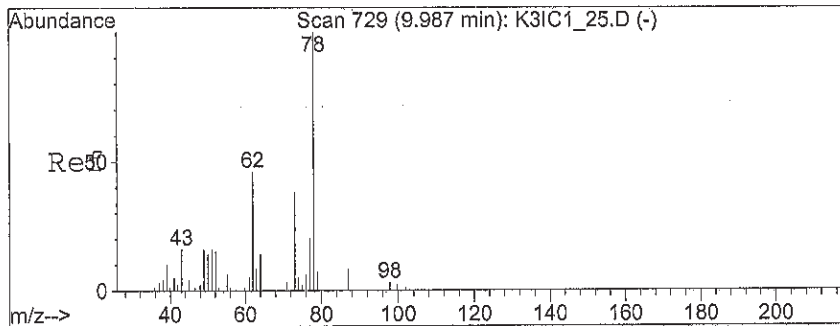
51 0.0 14.2 21.2#

77 23.2 16.6 24.8



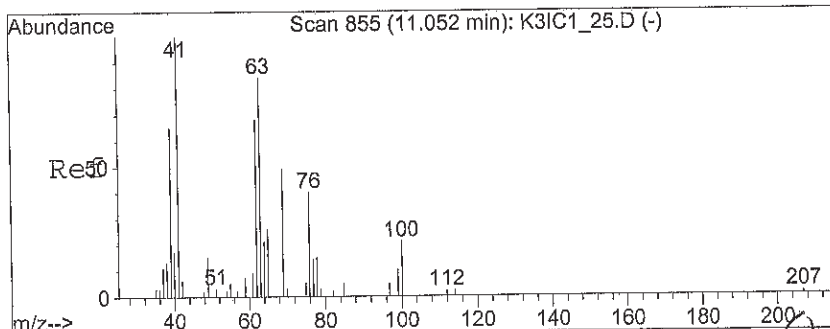
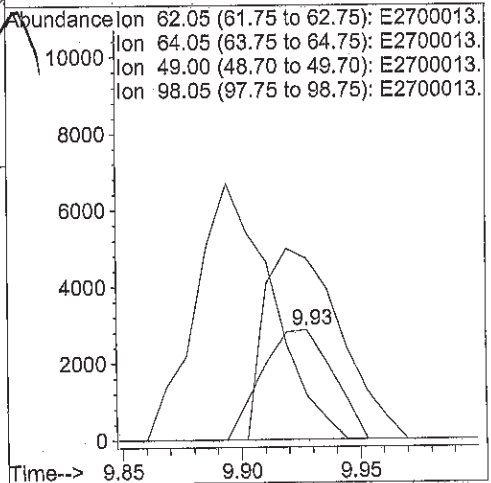
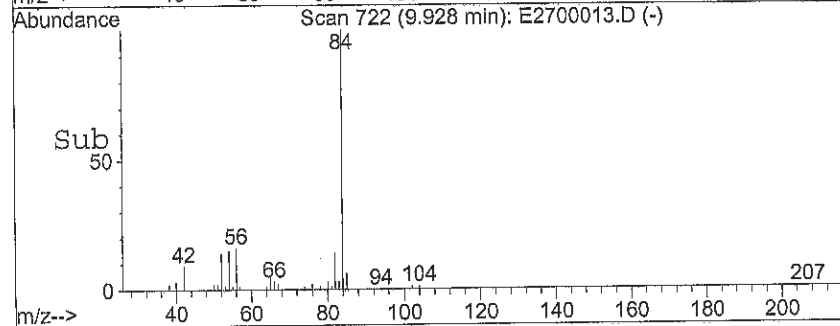
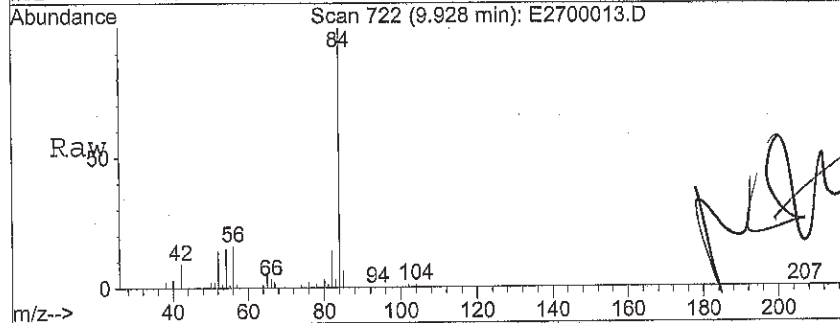
Abundance Ion 78.10 (77.80 to 78.80): E2700013.
Ion 51.05 (50.75 to 51.75): E2700013.
Ion 77.15 (76.85 to 77.85): E2700013.





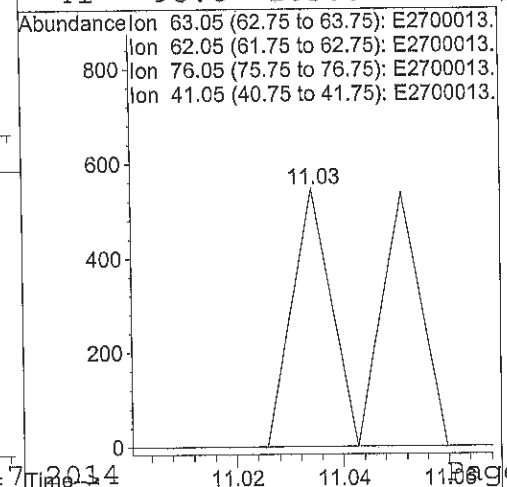
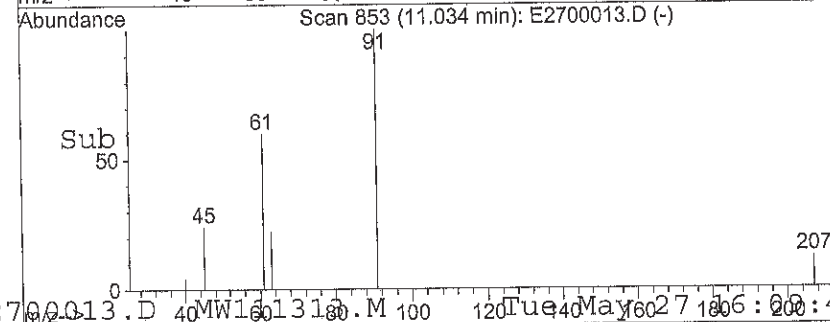
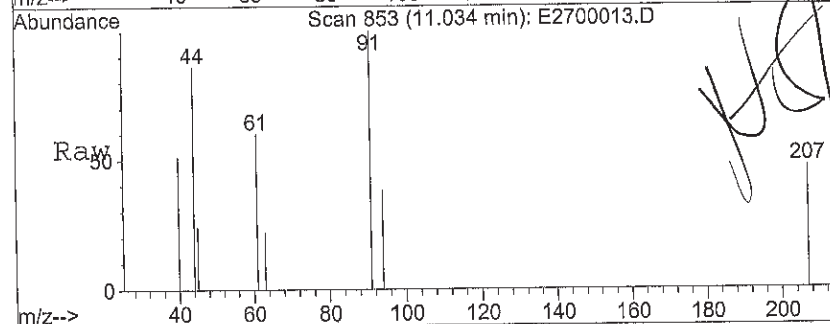
#32
 1,2-Dichloroethane
 Concen: 1.17 ug/L
 RT: 9.93 min Scan# 722
 Delta R.T. -0.06 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

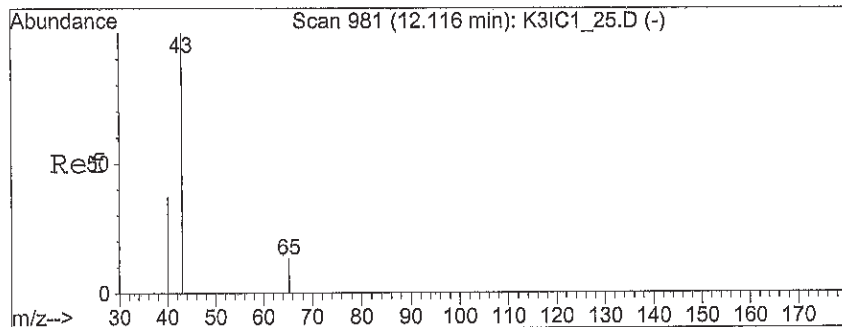
Tgt Ion: 62 Resp: 5923
 Ion Ratio Lower Upper
 62 100
 64 187.6 28.0 42.0#
 49 0.0 28.5 42.7#
 98 0.0 6.2 9.4#



#34
 1,2-Dichloropropane
 Concen: 0.08 ug/L
 RT: 11.03 min Scan# 853
 Delta R.T. -0.02 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

Tgt Ion: 63 Resp: 277
 Ion Ratio Lower Upper
 63 100
 62 0.0 67.4 101.2#
 76 0.0 40.3 60.5#
 41 98.6 103.0 154.6#





#40

(MIBK) 4-Methyl-2-Pentanone

Concen: 0.13 ug/L

RT: 12.12 min Scan# 981

Delta R.T. -0.00 min

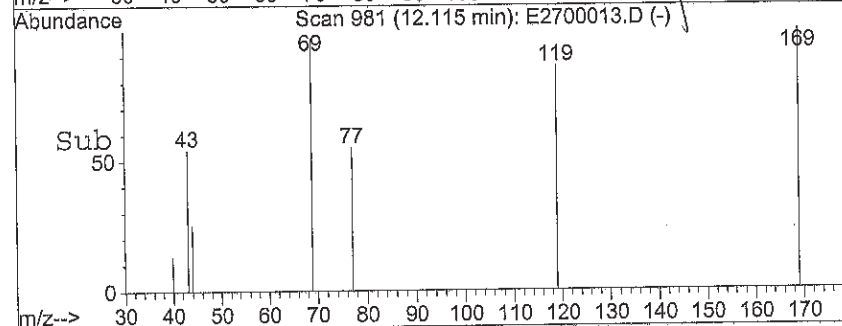
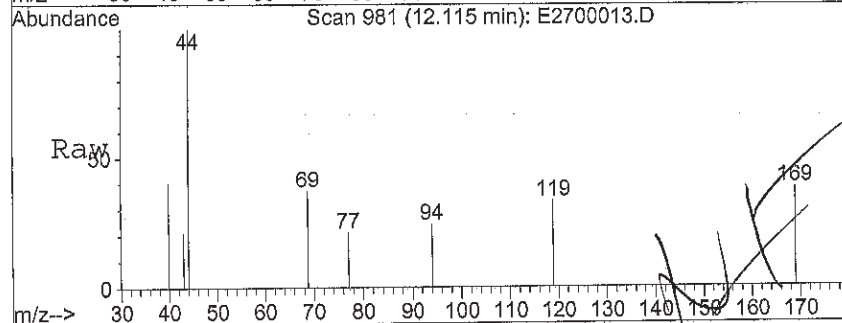
Lab File: E2700013.D

Acq: 27 May 2014 3:35 pm

Tgt Ion: 43 Resp: 293

Ion Ratio Lower Upper

43	100		
58	0.0	0.0	0.0
85	0.0	0.0	0.0
100	0.0	0.0	0.0



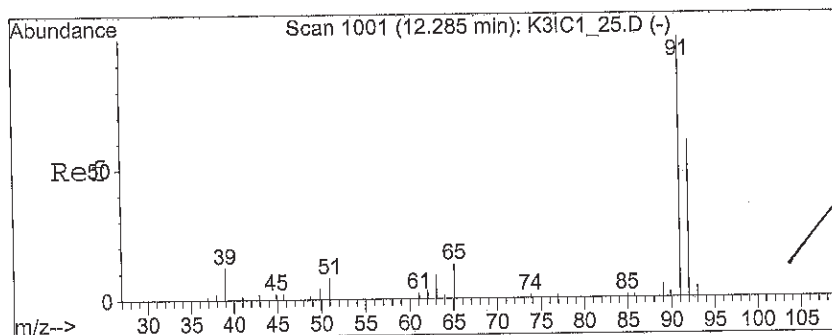
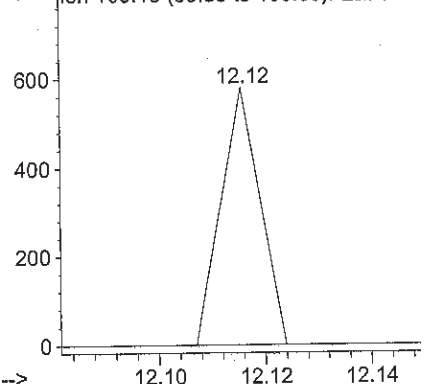
Abundance

Ion 43.00 (42.70 to 43.70): E2700013.

Ion 58.10 (57.80 to 58.80): E2700013.

Ion 85.05 (84.75 to 85.75): E2700013.

Ion 100.15 (99.85 to 100.85): E2700013.



#41

Toluene

Concen: 7.99 ug/L

RT: 12.28 min Scan# 1001

Delta R.T. -0.00 min

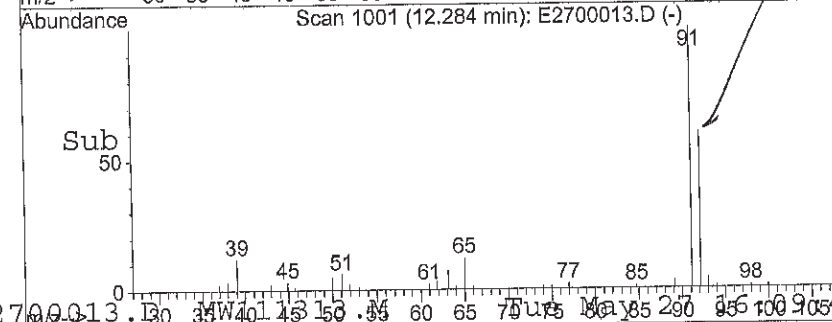
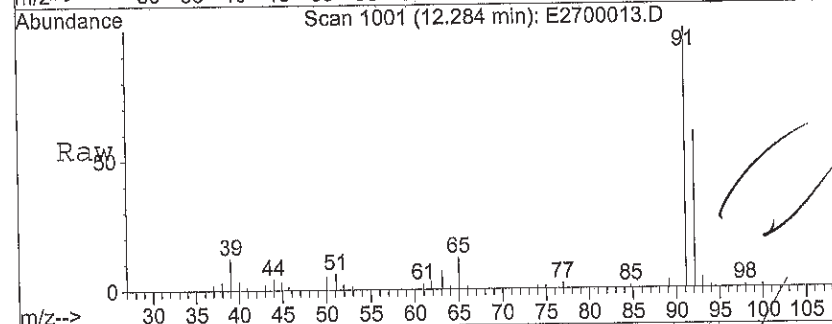
Lab File: E2700013.D

Acq: 27 May 2014 3:35 pm

Tgt Ion: 91 Resp: 127014

Ion Ratio Lower Upper

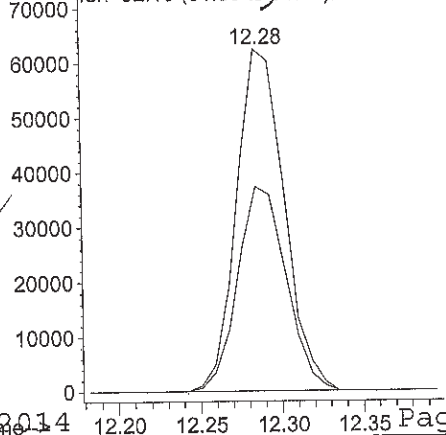
91	100		
92	60.9	47.4	71.0

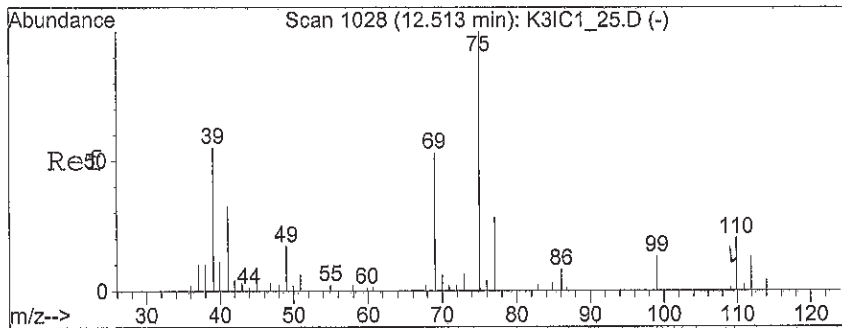


Abundance

Ion 91.10 (90.80 to 91.80): E2700013.

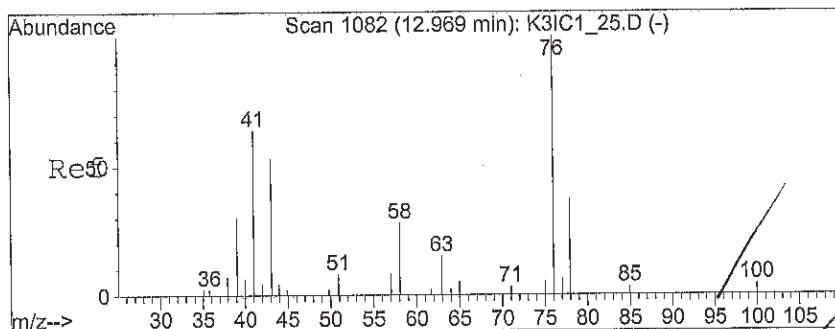
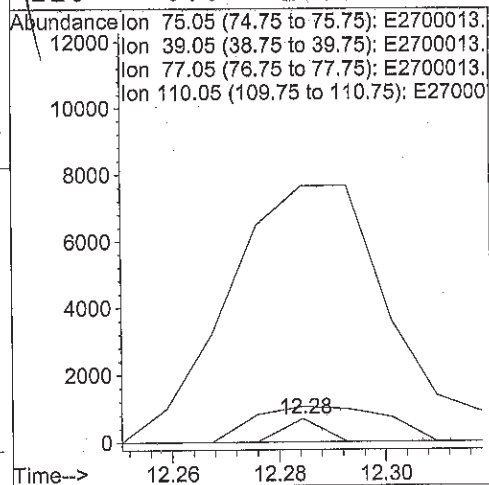
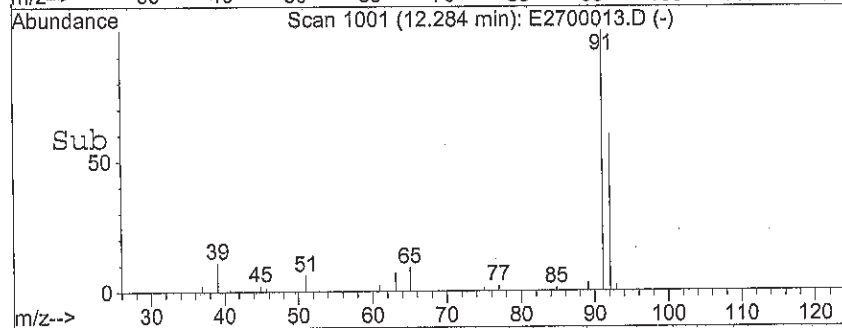
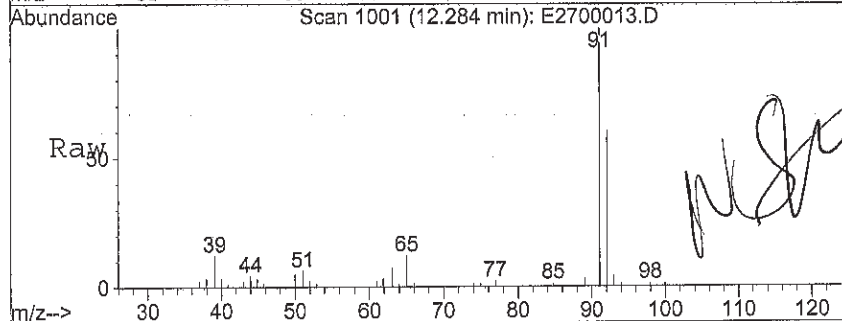
Ion 92.10 (91.80 to 92.80): E2700013.





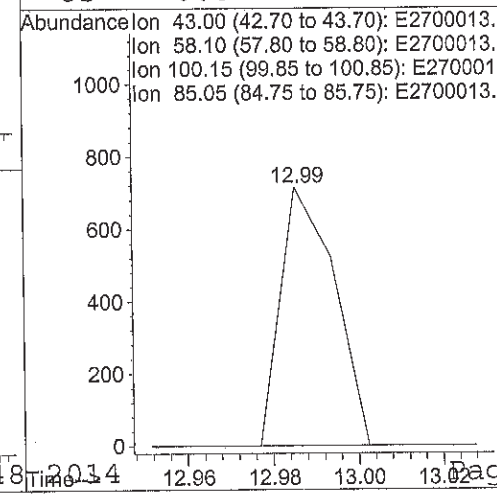
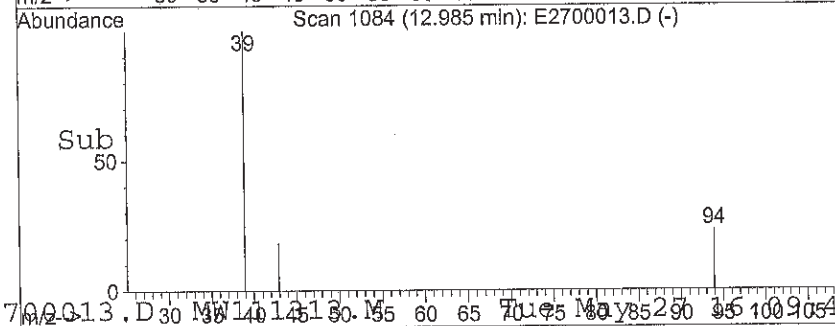
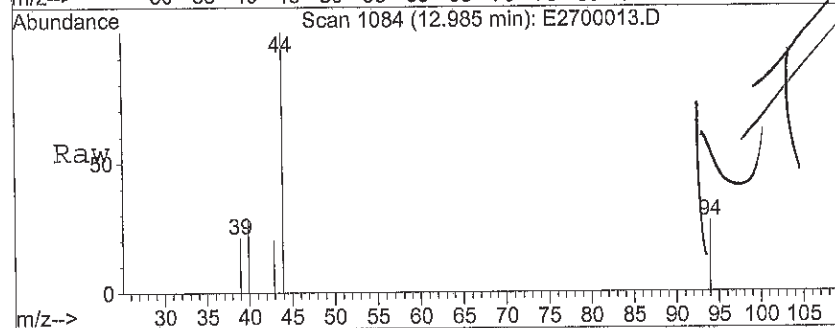
#42
 trans-1,3-Dichloropropene
 Concen: 0.07 ug/L
 RT: 12.28 min Scan# 1001
 Delta R.T. -0.23 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

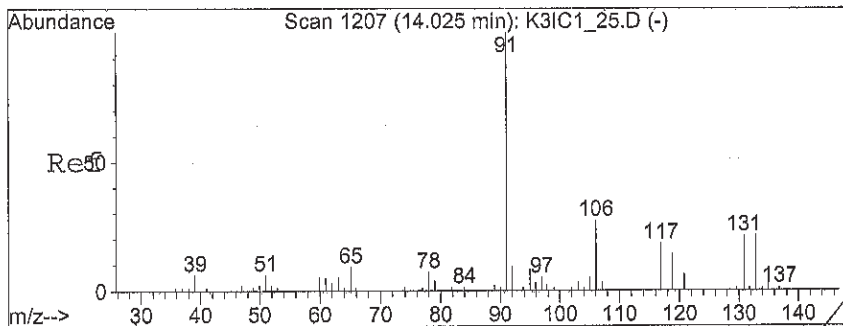
Tgt Ion: 75 Resp: 353
 Ion Ratio Lower Upper
 75 100
 39 4655.5 53.6 80.4#
 77 517.3 25.4 38.2#
 110 0.0 17.6 26.4#



#46
 2-Hexanone
 Concen: 0.25 ug/L
 RT: 12.99 min Scan# 1084
 Delta R.T. 0.02 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

Tgt Ion: 43 Resp: 626
 Ion Ratio Lower Upper
 43 100
 58 0.0 40.9 61.3#
 100 0.0 5.5 8.3#
 85 0.0 4.3 6.5#





#51

Ethylbenzene

Concen: 0.98 ug/L

RT: 14.02 min Scan# 1207

Delta R.T. -0.00 min

Lab File: E2700013.D

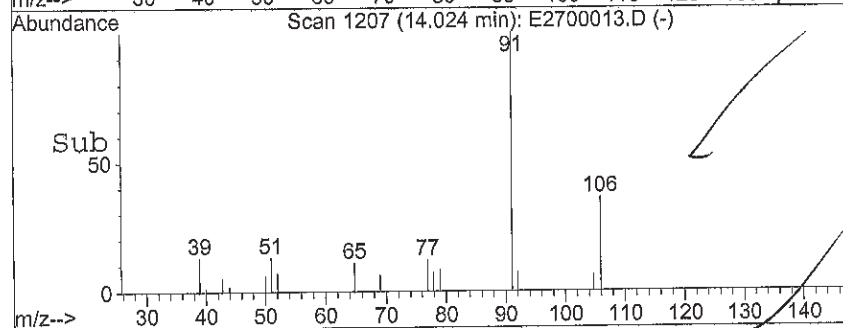
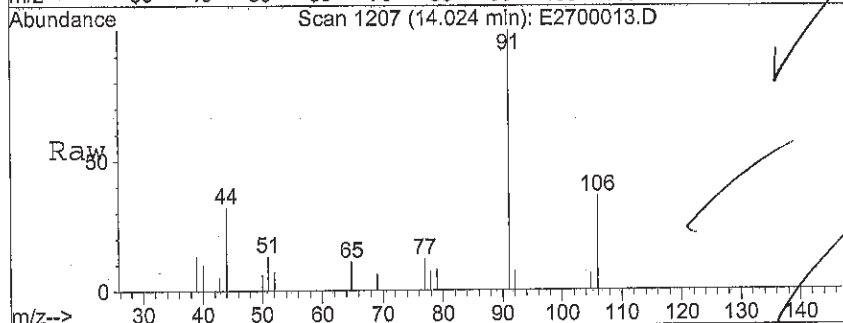
Acq: 27 May 2014 3:35 pm

Tgt Ion: 91 Resp: 17785

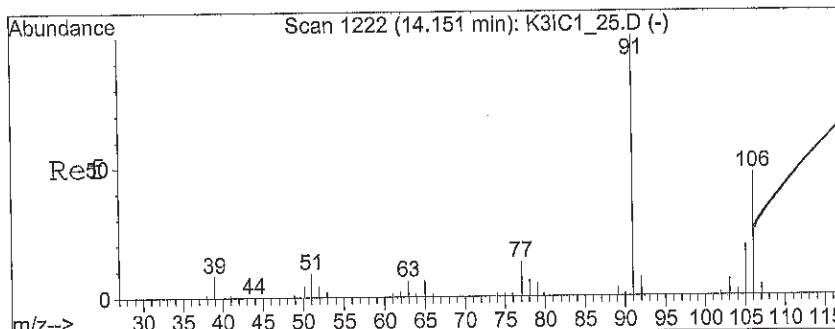
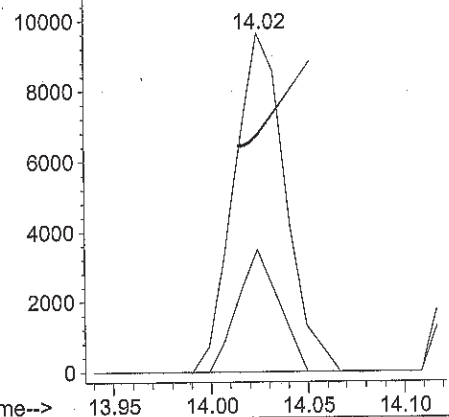
Ion Ratio Lower Upper

91 100

106 28.9 23.5 35.3



Abundance Ion 91.10 (90.80 to 91.80): E2700013.
Ion 106.20 (105.90 to 106.90): E27000



#52

m,p-Xylenes

Concen: 3.55 ug/L

RT: 14.14 min Scan# 1221

Delta R.T. -0.01 min

Lab File: E2700013.D

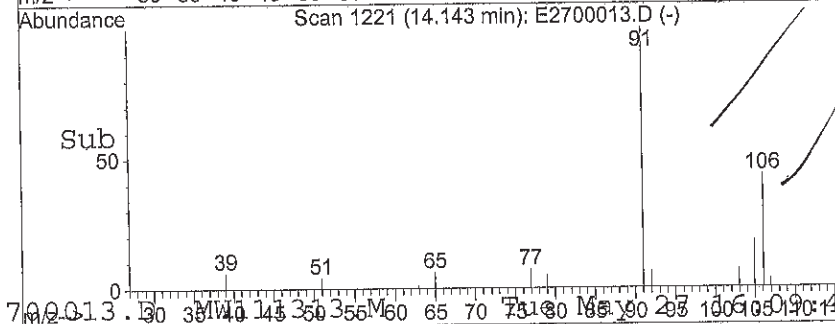
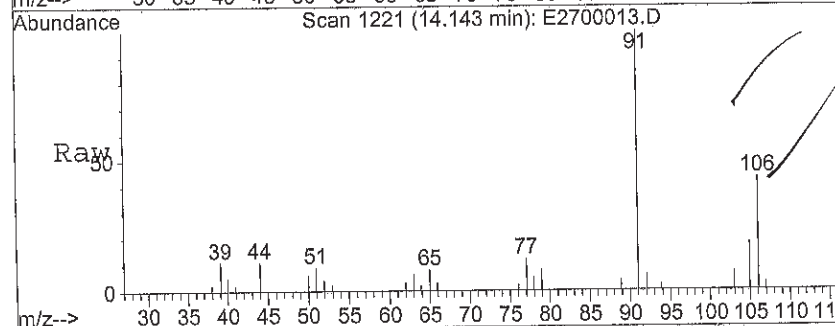
Acq: 27 May 2014 3:35 pm

Tgt Ion: 106 Resp: 22792

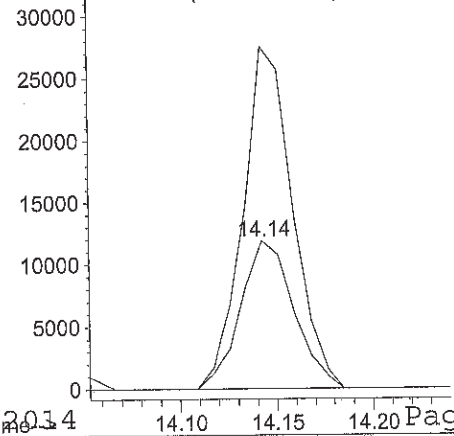
Ion Ratio Lower Upper

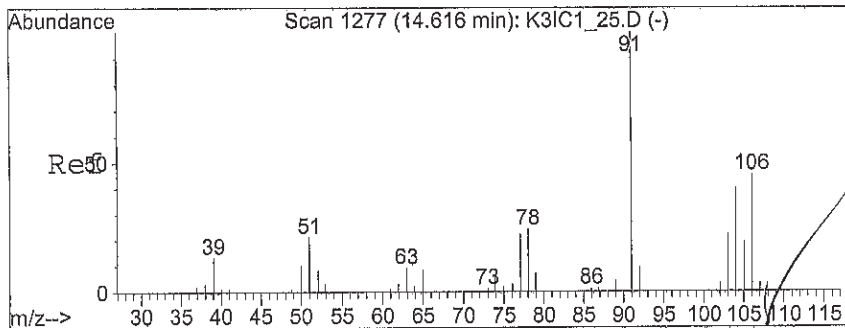
106 100

91 215.6 177.1 265.7



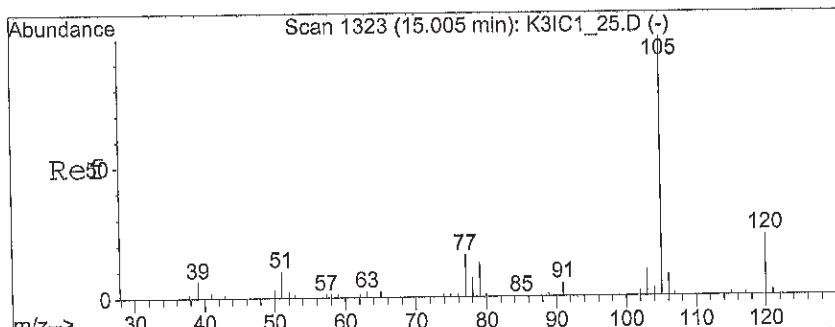
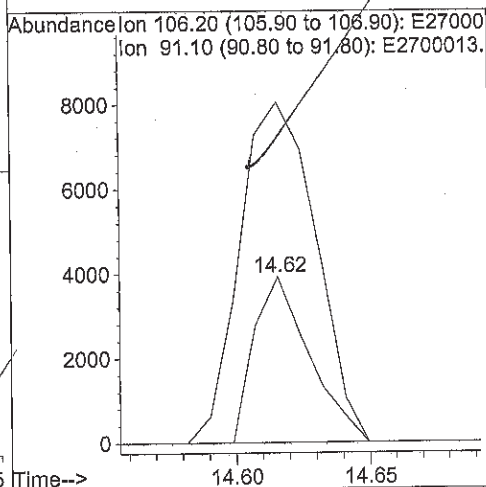
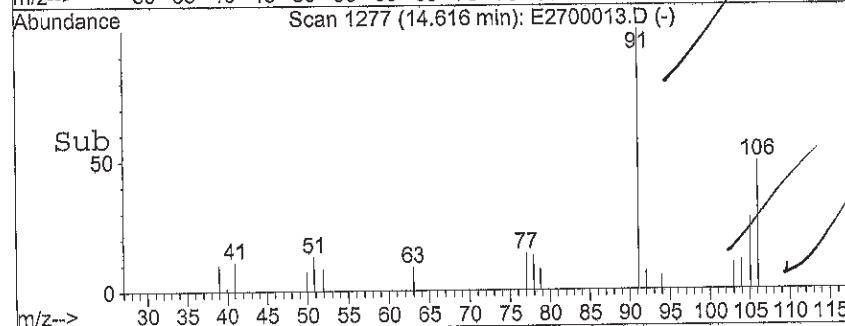
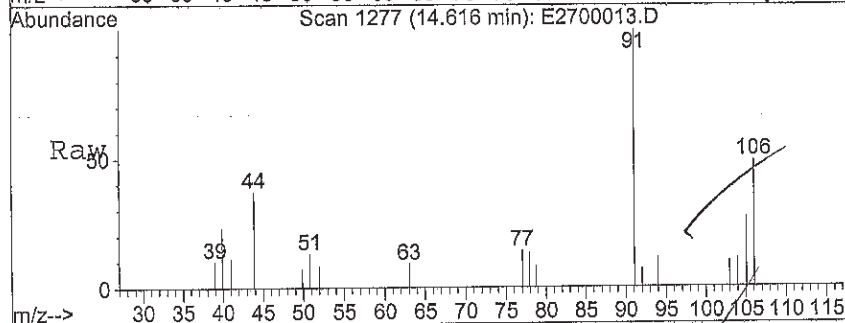
Abundance Ion 106.10 (105.80 to 106.80): E27000
Ion 91.10 (90.80 to 91.80): E2700013.





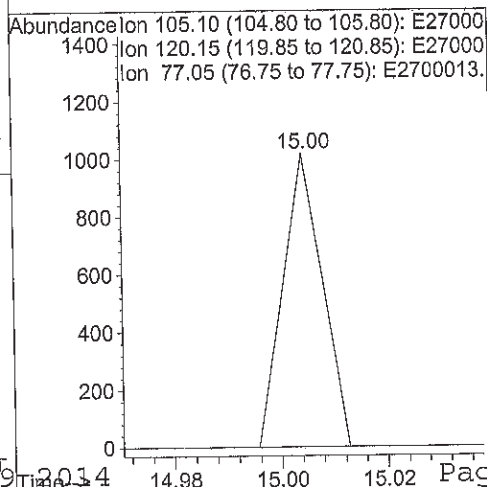
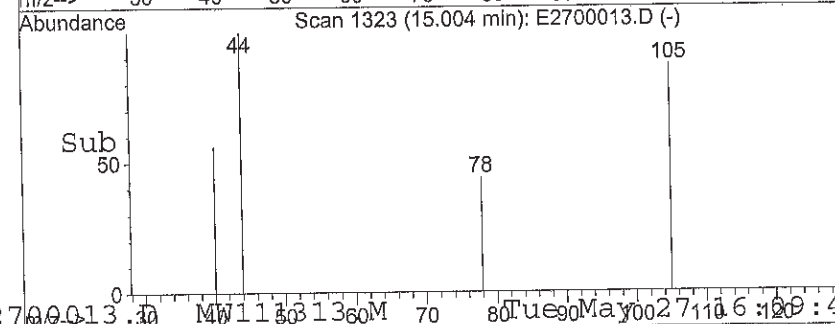
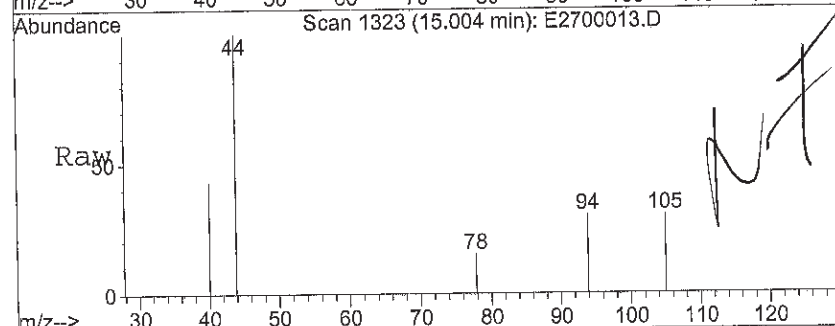
#53
o-Xylene
Concen: 0.89 ug/L
RT: 14.62 min Scan# 1277
Delta R.T. -0.00 min
Lab File: E2700013.D
Acq: 27 May 2014 3:35 pm

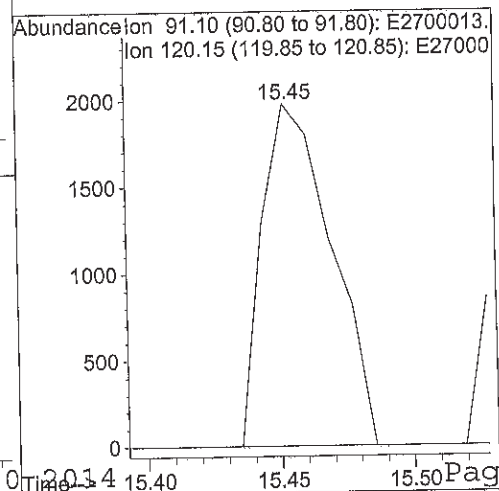
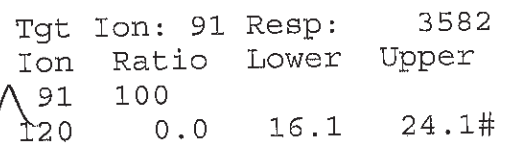
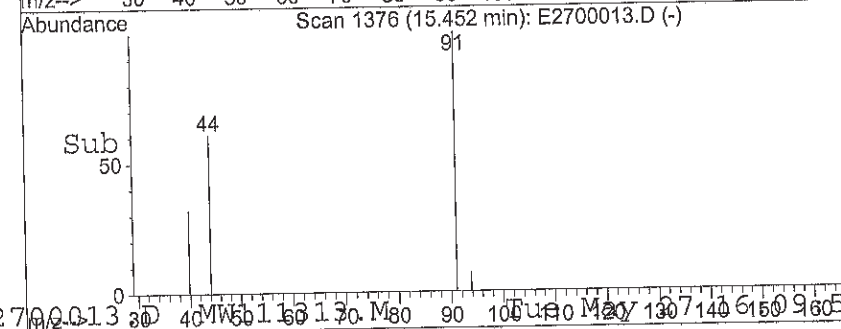
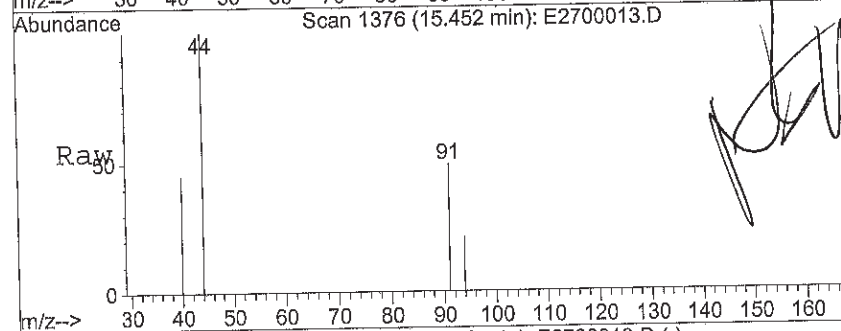
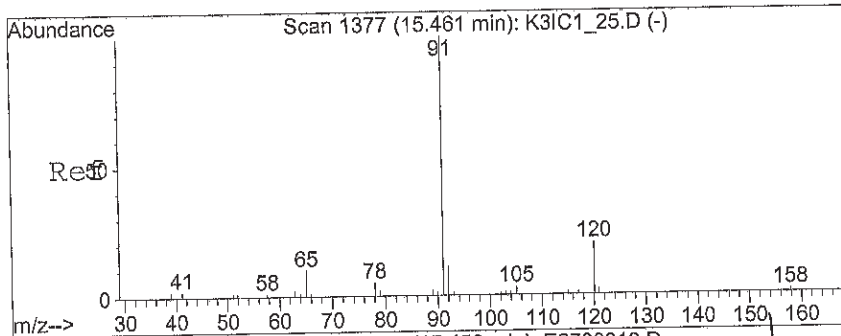
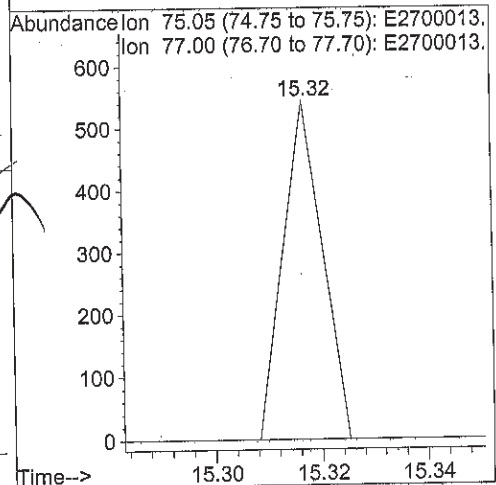
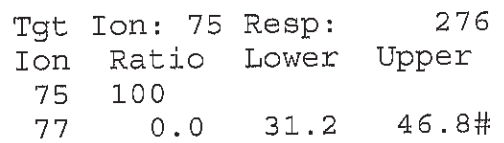
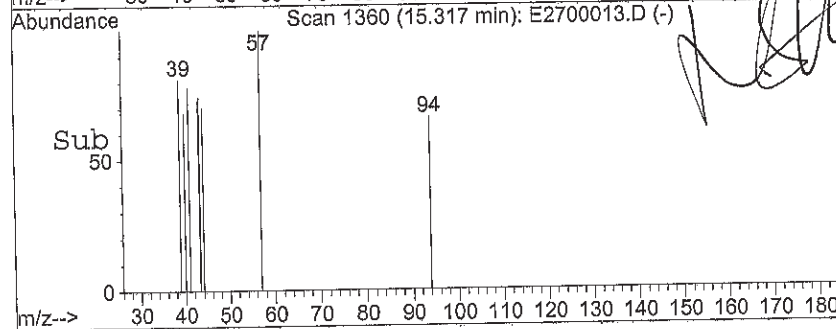
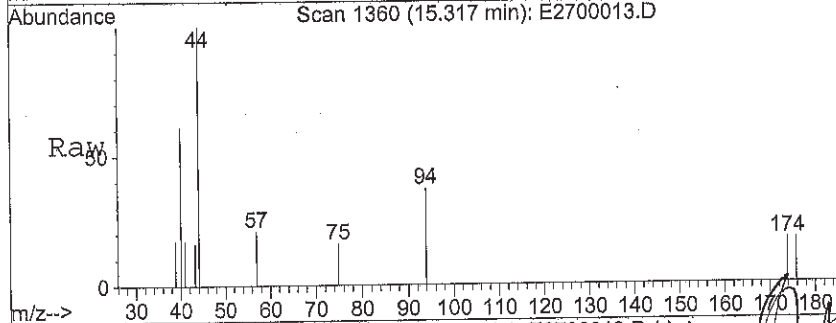
Tgt Ion:106 Resp: 5633
Ion Ratio Lower Upper
106 100
91 281.9 179.0 288.6#

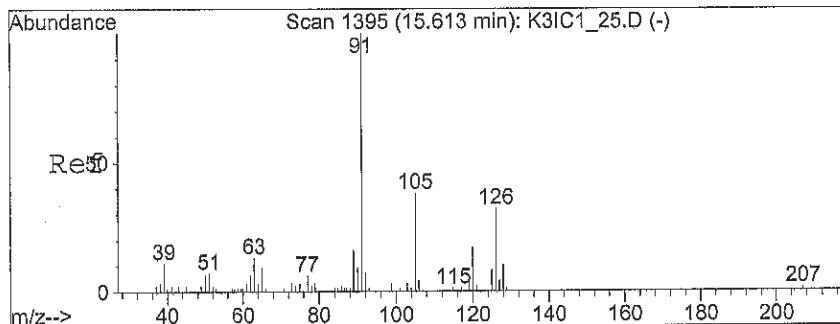


#56
Isopropylbenzene
Concen: 0.03 ug/L
RT: 15.00 min Scan# 1323
Delta R.T. -0.00 min
Lab File: E2700013.D
Acq: 27 May 2014 3:35 pm

Tgt Ion:105 Resp: 516
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 0.0 13.1 19.7#

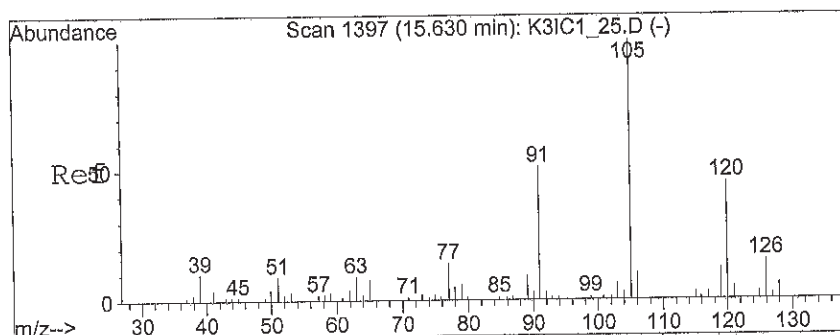
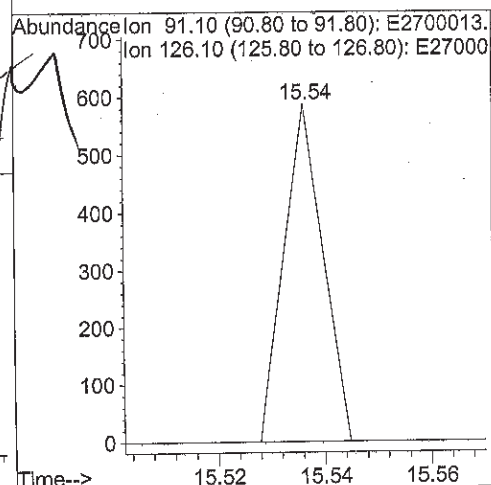
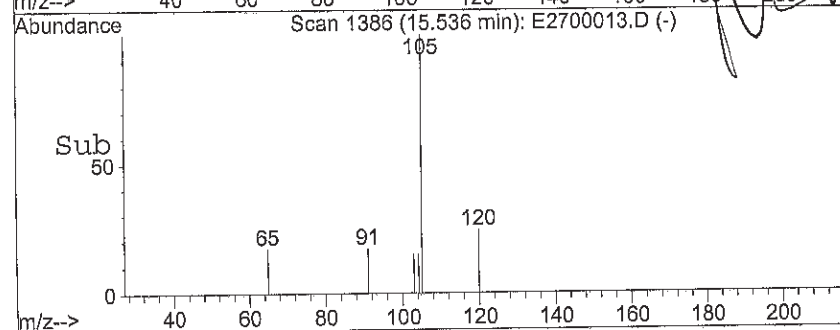
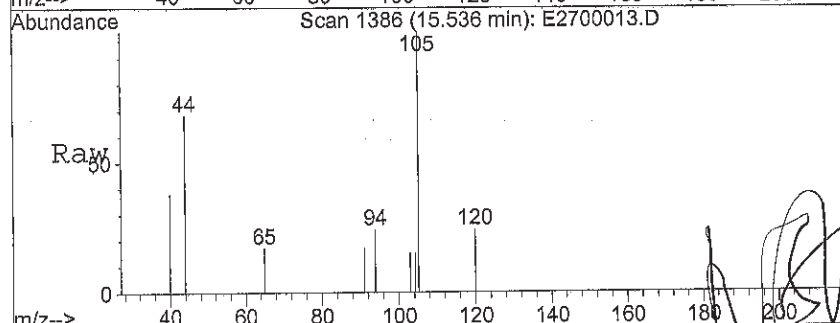






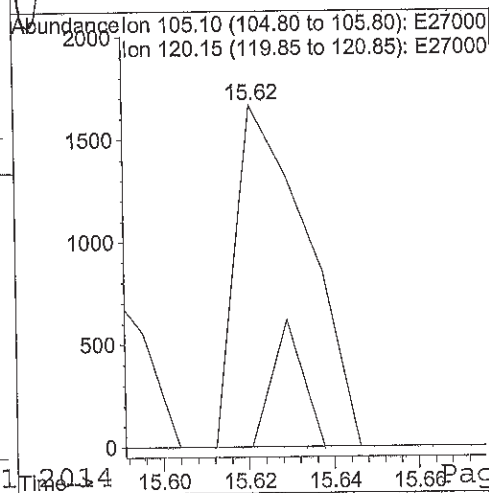
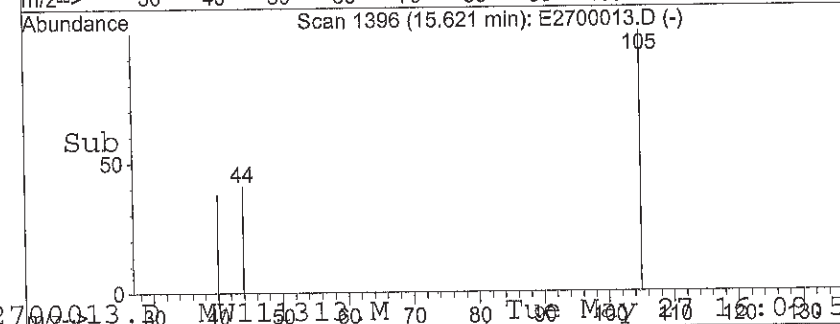
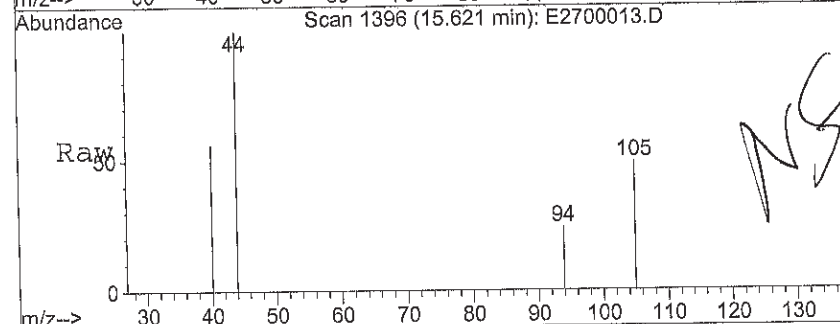
#63
2-Chlorotoluene
Concen: 0.02 ug/L
RT: 15.54 min Scan# 1386
Delta R.T. -0.08 min
Lab File: E2700013.D
Acq: 27 May 2014 3:35 pm

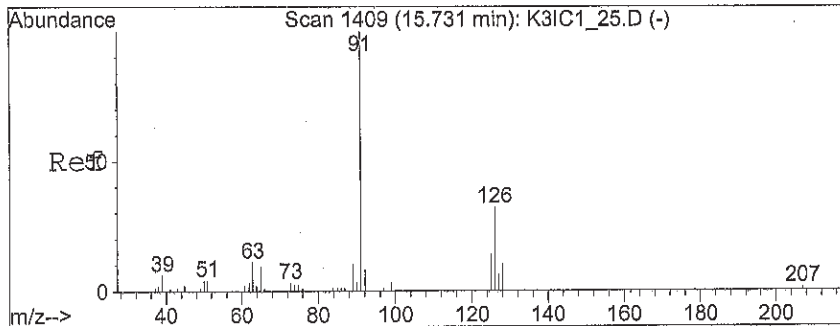
Tgt Ion: 91 Resp: 298
Ion Ratio Lower Upper
91 100
126 0.0 24.0 36.0#



#64
1,3,5-Trimethylbenzene
Concen: 0.12 ug/L
RT: 15.62 min Scan# 1396
Delta R.T. -0.01 min
Lab File: E2700013.D
Acq: 27 May 2014 3:35 pm

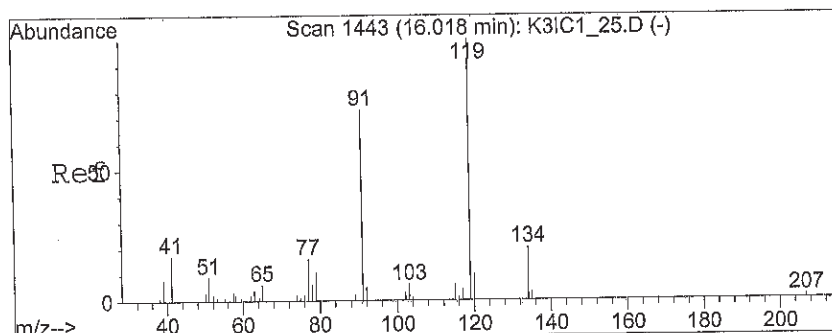
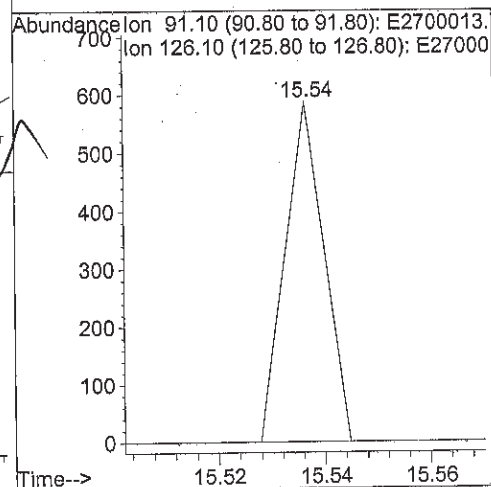
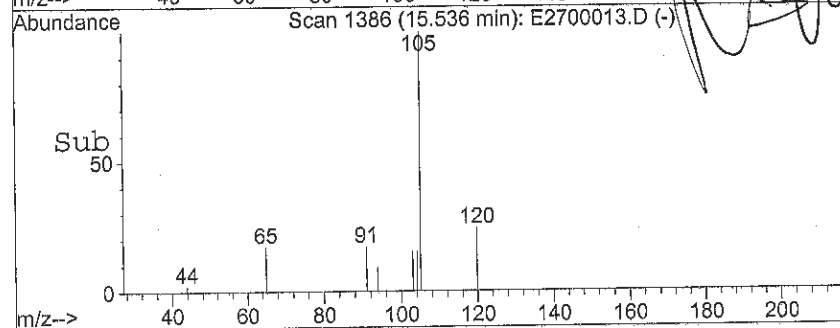
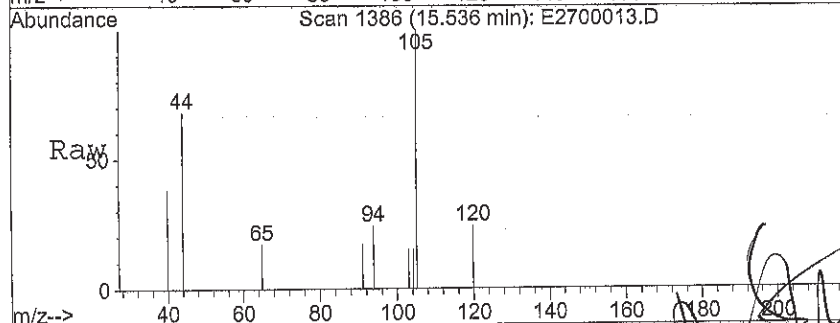
Tgt Ion: 105 Resp: 1946
Ion Ratio Lower Upper
105 100
120 16.0 36.4 54.6#





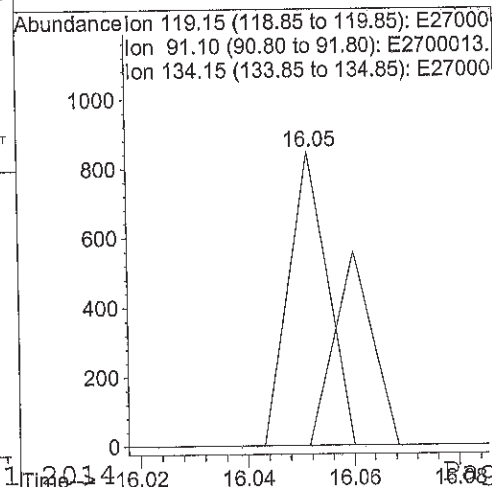
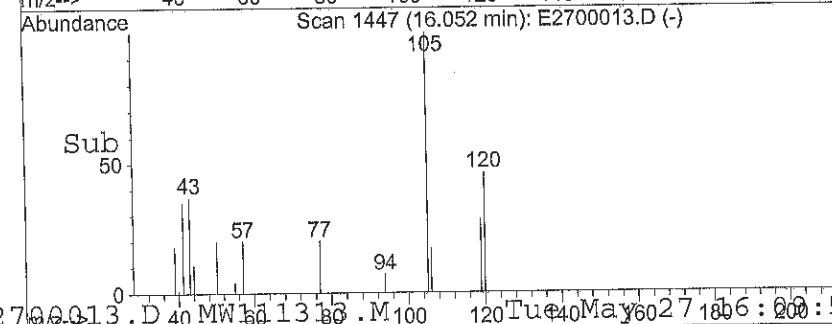
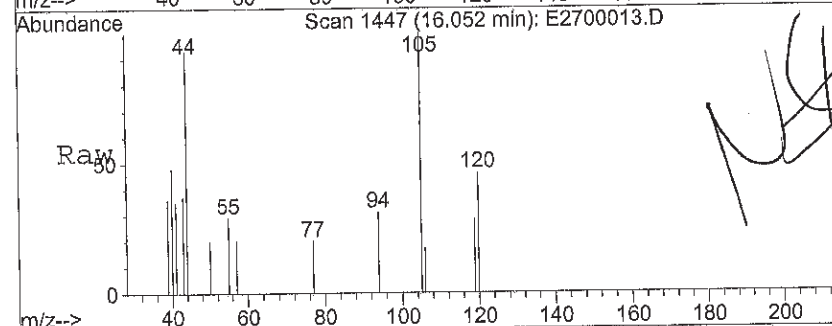
#65
4-Chlorotoluene
Concen: 0.02 ug/L
RT: 15.54 min Scan# 1386
Delta R.T. -0.19 min
Lab File: E2700013.D
Acq: 27 May 2014 3:35 pm

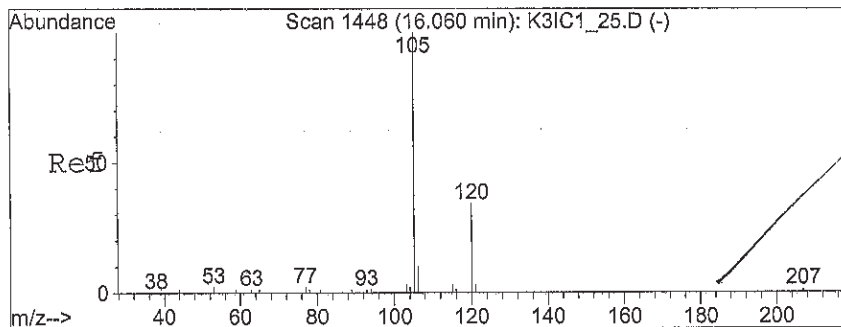
Tgt Ion: 91 Resp: 298
Ion Ratio Lower Upper
91 100
126 0.0 24.6 36.8#



#66
tert-Butylbenzene
Concen: 0.03 ug/L
RT: 16.05 min Scan# 1447
Delta R.T. 0.03 min
Lab File: E2700013.D
Acq: 27 May 2014 3:35 pm

Tgt Ion: 119 Resp: 430
Ion Ratio Lower Upper
119 100
91 65.8 56.3 84.5
134 0.0 16.1 24.1#





#67

1,2,4-Trimethylbenzene

Concen: 0.44 ug/L

RT: 16.06 min Scan# 1448

Delta R.T. -0.00 min

Lab File: E2700013.D

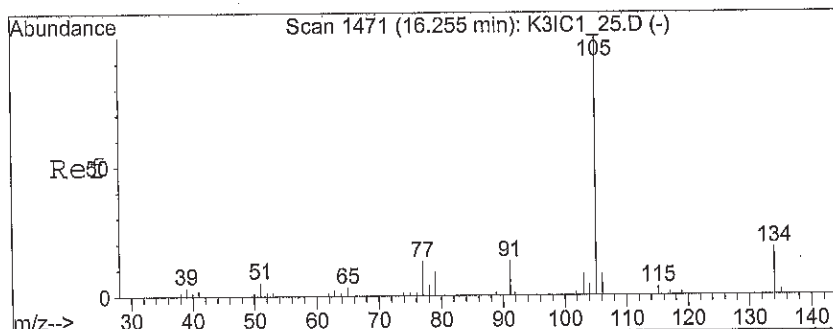
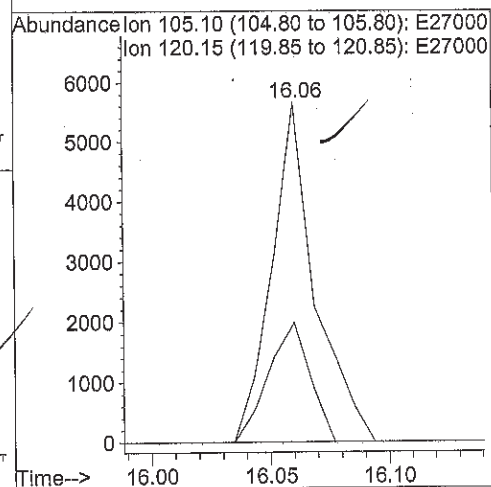
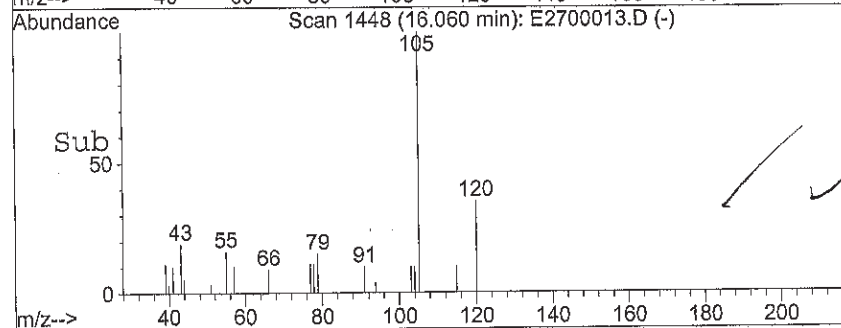
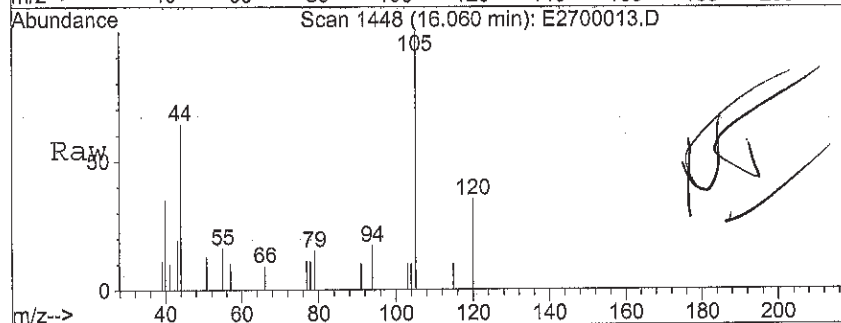
Acq: 27 May 2014 3:35 pm

Tgt Ion:105 Resp: 7134

Ion Ratio Lower Upper

105 100

120 34.1 33.8 50.8



#68

sec-Butylbenzene

Concen: 0.34 ug/L

RT: 16.06 min Scan# 1448

Delta R.T. -0.19 min

Lab File: E2700013.D

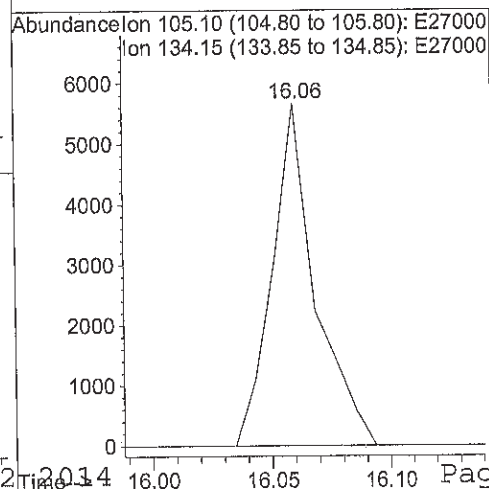
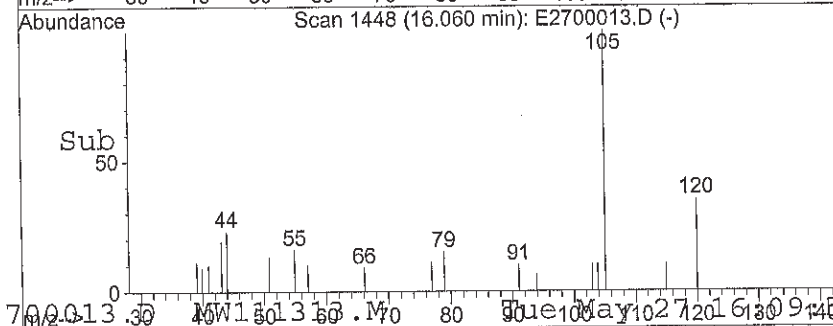
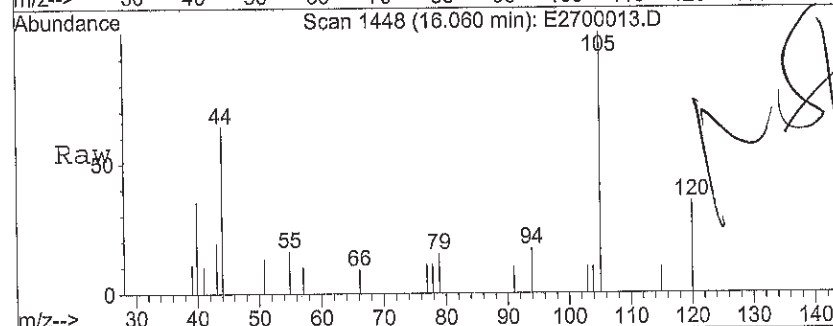
Acq: 27 May 2014 3:35 pm

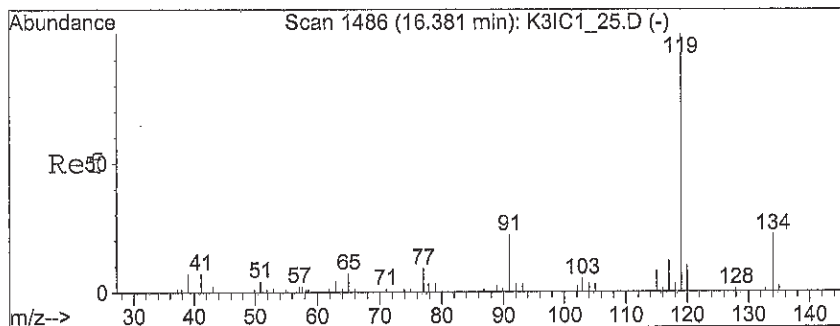
Tgt Ion:105 Resp: 7134

Ion Ratio Lower Upper

105 100

134 0.0 13.0 19.6#





#69

p-Isopropyltoluene

Concen: 0.07 ug/L

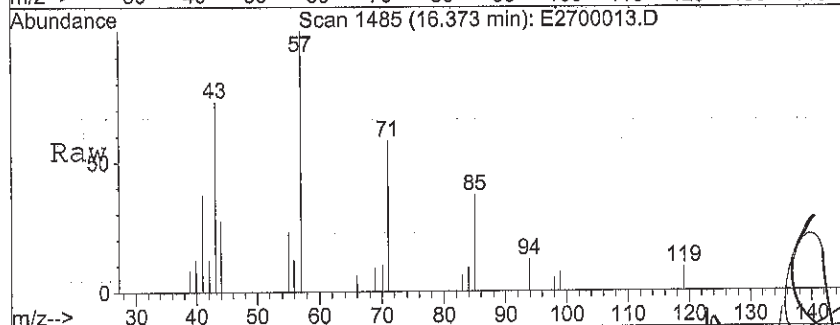
RT: 16.37 min Scan# 1485

Delta R.T. -0.01 min

Lab File: E2700013.D

Acq: 27 May 2014 3:35 pm

Tgt Ion:	119	Resp:	1248
Ion	Ratio	Lower	Upper
119	100		
134	0.0	17.4	26.2#
91	0.0	19.6	29.4#

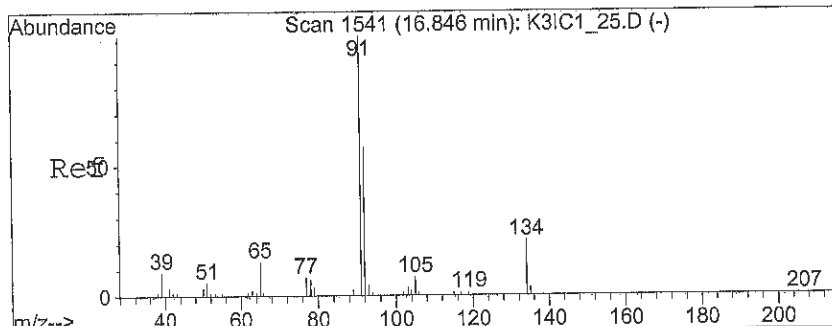
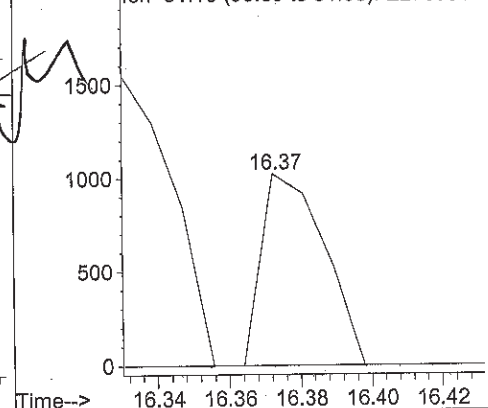
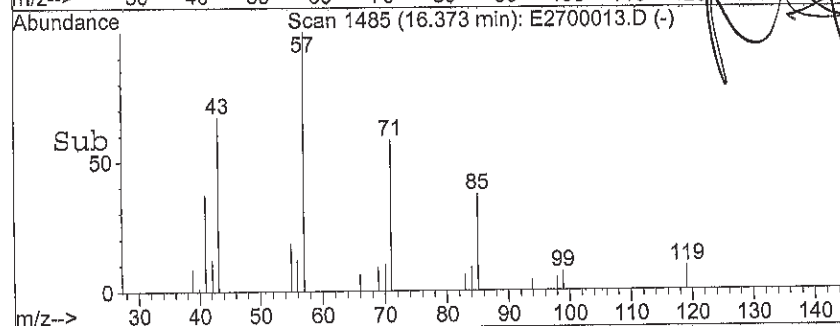


Abundance

Ion 119.15 (118.85 to 119.85): E27000

Ion 134.15 (133.85 to 134.85): E27000

Ion 91.10 (90.80 to 91.80): E2700013.



#72

n-Butylbenzene

Concen: 0.02 ug/L

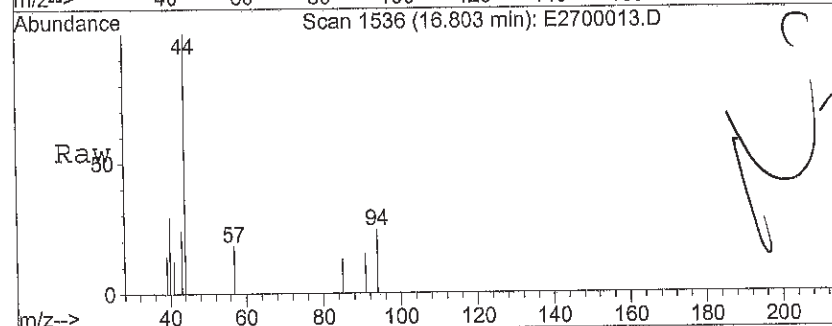
RT: 16.80 min Scan# 1536

Delta R.T. -0.04 min

Lab File: E2700013.D

Acq: 27 May 2014 3:35 pm

Tgt Ion:	91	Resp:	332
Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.0	70.4#
134	0.0	18.1	27.1#

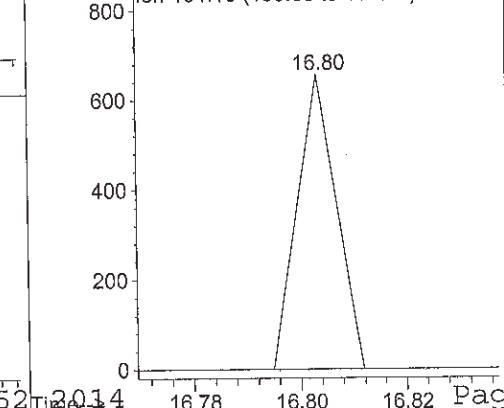
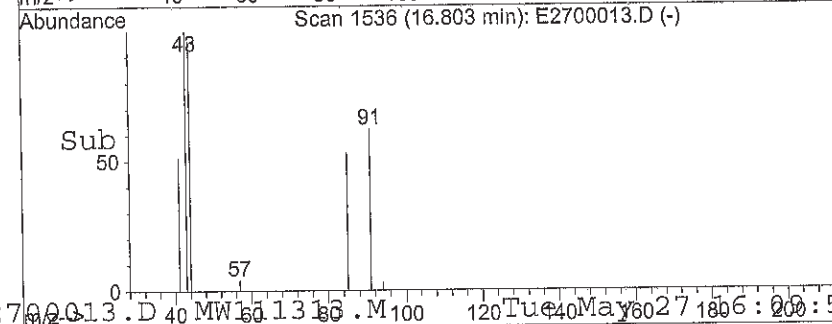


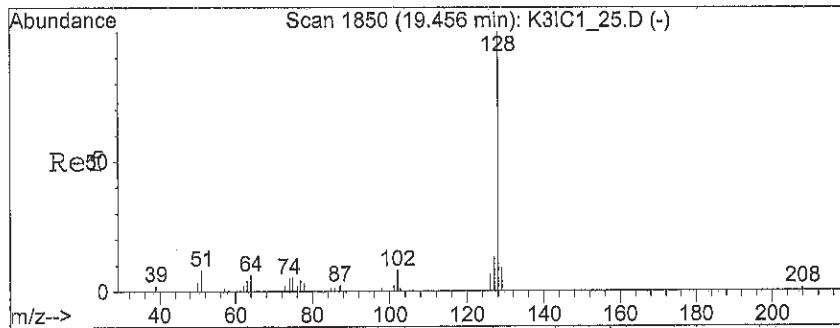
Abundance

Ion 91.10 (90.80 to 91.80): E2700013.

Ion 92.10 (91.80 to 92.80): E2700013.

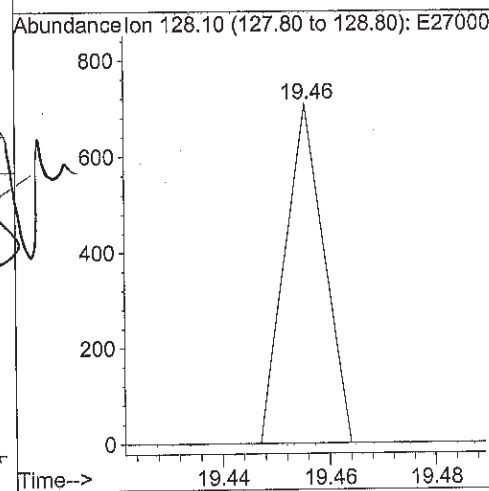
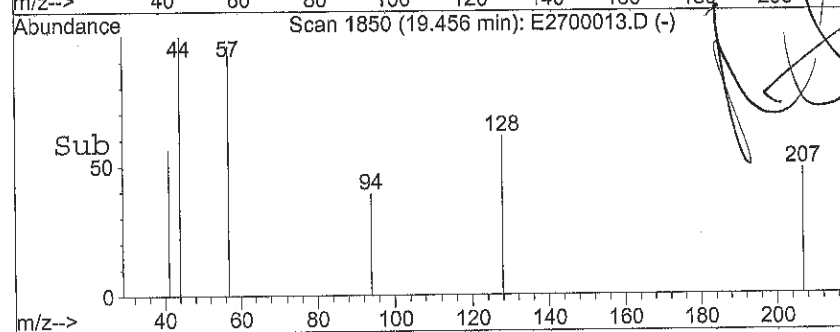
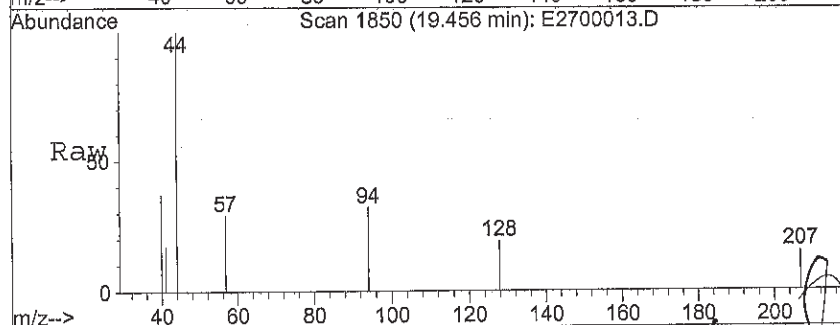
Ion 134.15 (133.85 to 134.85): E27000





#77
 Naphthalene
 Concen: 0.03 ug/L
 RT: 19.46 min Scan# 1850
 Delta R.T. -0.00 min
 Lab File: E2700013.D
 Acq: 27 May 2014 3:35 pm

Tgt Ion:128 Resp: 359



Data File : C:\HPCHEM\1\DATA\052714L3\E2700013.D

Vial: 4

Acq On : 27 May 2014 3:35 pm

Operator: DN

Sample : 3E42701-10

Inst : GC/MS Ins

Misc : 100cc SVL-512-SA5D-SV-11.0-12.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 16:10 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1519594	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.91	117	1165855	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	627293	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	429643	10.87	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	86.95%
3) Chloroform-d (SU6)	9.18	84	726756	12.82	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	102.56%
4) Methylene Chloride-d2 (SU5)	7.06	86	399943	12.07	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	96.56%
5) 1,2-Dichloroethane-d4 (SU2)	9.89	65	420567	15.57	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	124.56%
6) Benzene-d6 (SU7)	9.93	84	1383364	11.60	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	92.80%
8) Toluene-d8 (SU3)	12.21	98	1328718	12.01	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.08%
9) 4-Bromofluorobenzene (SU4)	15.22	95	632605	13.85	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	110.80%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700013.D SS072713.M

Tue May 27 16:10:39 2014

Page 1

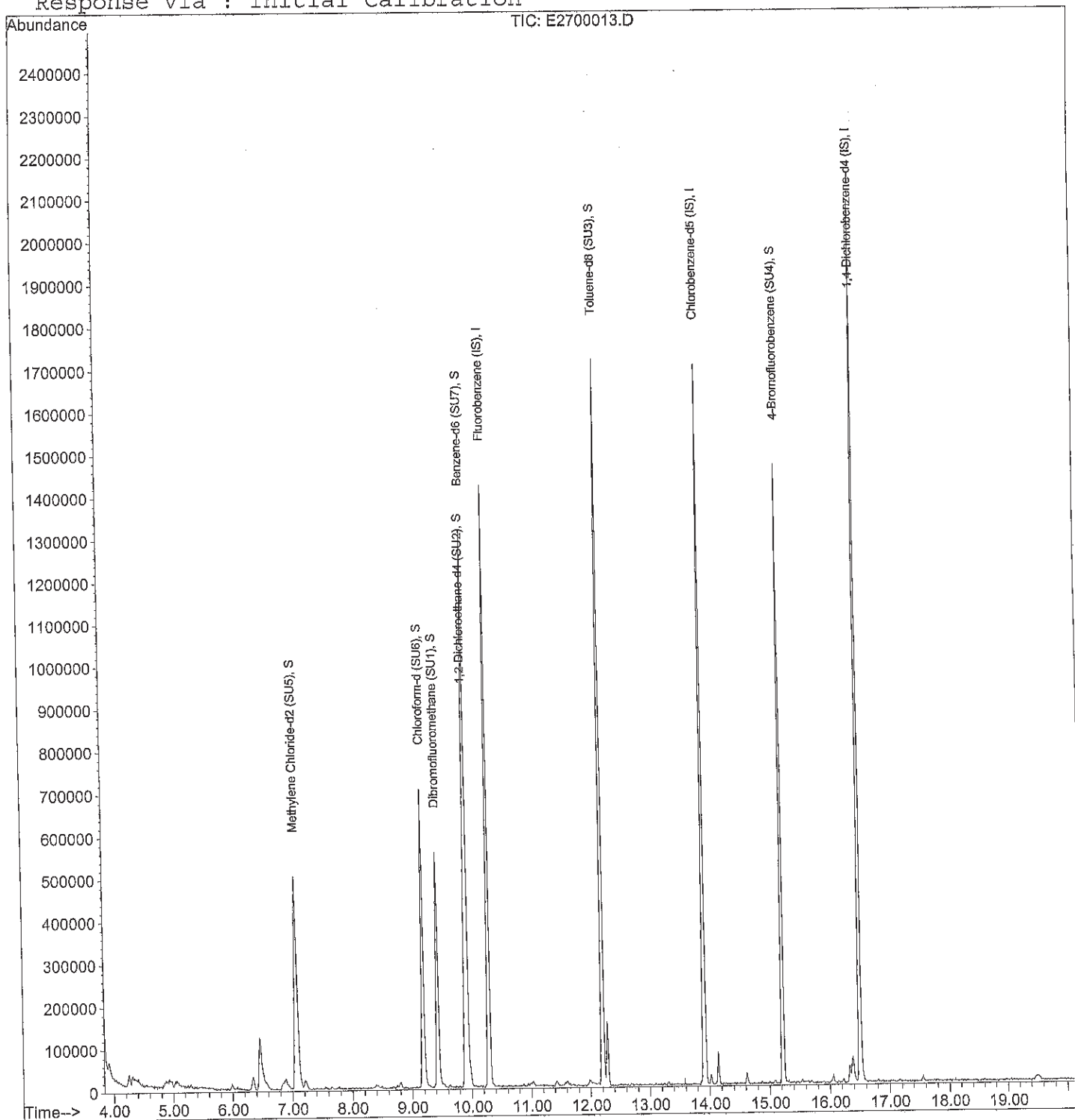
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700013.D
 Acq On : 27 May 2014 3:35 pm
 Sample : 3E42701-10
 Misc : 100cc SVL-512-SA5D-SV-11.0-12.0
 MS Integration Params: rteint.p
 Quant Time: May 27 16:10 19114

Vial: 4
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E2700014.D
 Acq On : 27 May 2014 4:04 pm
 Sample : 3E42701-11
 Misc : 100cc SVL-512-SA5D-SV-16.75-17.75
 MS Integration Params: rteint.p
 Quant Time: May 27 16:26 19114

Vial: 5
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1558226	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1225289	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	643267	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	436452	11.23	ug/L	0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	89.84%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	437553	11.85	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.80%
39) Toluene-d8 (SU3)	12.21	98	1377020	12.05	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.40%
58) 4-Bromofluorobenzene (SU4)	15.23	95	680731	13.58	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	108.64%

Target Compounds

					Qvalue
4) Chloromethane	4.40	50	6574	1.30 ug/L	#SN 76
6) Bromomethane	5.13	96	1065	-1.16 ug/L	#SN 1
7) Chloroethane	5.19	64	1636	1.95 ug/L	#SN 84
9) (F113) 1,1,2-Trichloro-tri	6.35	151	3993	1.30 ug/L	0.026 86
11) Acetone	6.47	58	8998	10.48 ug/L	#SN 96
12) (IPA) Leak Check Compound	6.47	45	285485	1524.67 ug/L	#SN 85
13) Carbon disulfide	6.84	76	7222	0.56 ug/L	#SN 76
14) Methylene Chloride	7.07	84	5710	1.33 ug/L	#SN 1
15) (TBA) tert-Butanol	6.90	59	4013	15.10 ug/L	#SN 77
20) 2,2-Dichloropropane	8.98	77	278	0.05 ug/L	#SN 36
24) Chloroform	9.21	83	1869	0.23 ug/L	#SN 18
25) (ETBE) 2-ethoxy 2-methyl p	8.33	59	920	0.08 ug/L	#SN 44
29) 1,1-Dichloropropene	9.93	75	399	0.07 ug/L	#SN 1
31) Benzene	9.98	78	2297	0.16 ug/L	#SN 69
32) 1,2-Dichloroethane	9.93	62	6260	1.21 ug/L	#SN 1
40) (MIBK) 4-Methyl-2-Pentanone	12.21	43	7320	2.99 ug/L	#SN 100
41) Toluene	12.30	91	12428	0.74 ug/L	0.0148 93
46) 2-Hexanone	12.93	43	656	0.24 ug/L	#SN 37
51) Ethylbenzene	14.03	91	2908	0.15 ug/L	#SN 45
52) m,p-Xylenes	14.15	106	1152	0.17 ug/L	#0.0054 21
53) o-Xylene	14.62	106	729	0.11 ug/L	#0.0022 1
54) Styrene	14.63	104	1947	-0.67 ug/L	#SN 76

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E2700014.D

Vial: 5

Acq On : 27 May 2014 4:04 pm

Operator: DN

Sample : 3E42701-11

Inst : GC/MS Ins

Misc : 100cc SVL-512-SA5D-SV-16.75-17.75

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 16:26 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56) Isopropylbenzene	15.00	105	320	0.02	ug/L #	1
62) n-Propylbenzene	15.46	91	274	0.01	ug/L #	56
63) 2-Chlorotoluene	15.61	91	2396	0.15	ug/L #	45
65) 4-Chlorotoluene	15.61	91	2396	0.16	ug/L #	44
67) 1,2,4-Trimethylbenzene	16.05	105	1059	0.06	ug/L #	33
68) sec-Butylbenzene	16.33	105	24414	1.13	ug/L #	62
69) p-Isopropyltoluene	16.38	119	2197	0.12	ug/L #	52
72) n-Butylbenzene	16.68	91	316	0.02	ug/L #	30
77) Naphthalene	19.45	128	616	0.05	ug/L	100

(#) = qualifier out of range (m) = manual integration

E2700014.D MW111313.M

Tue May 27 16:26:14 2014

Page 2

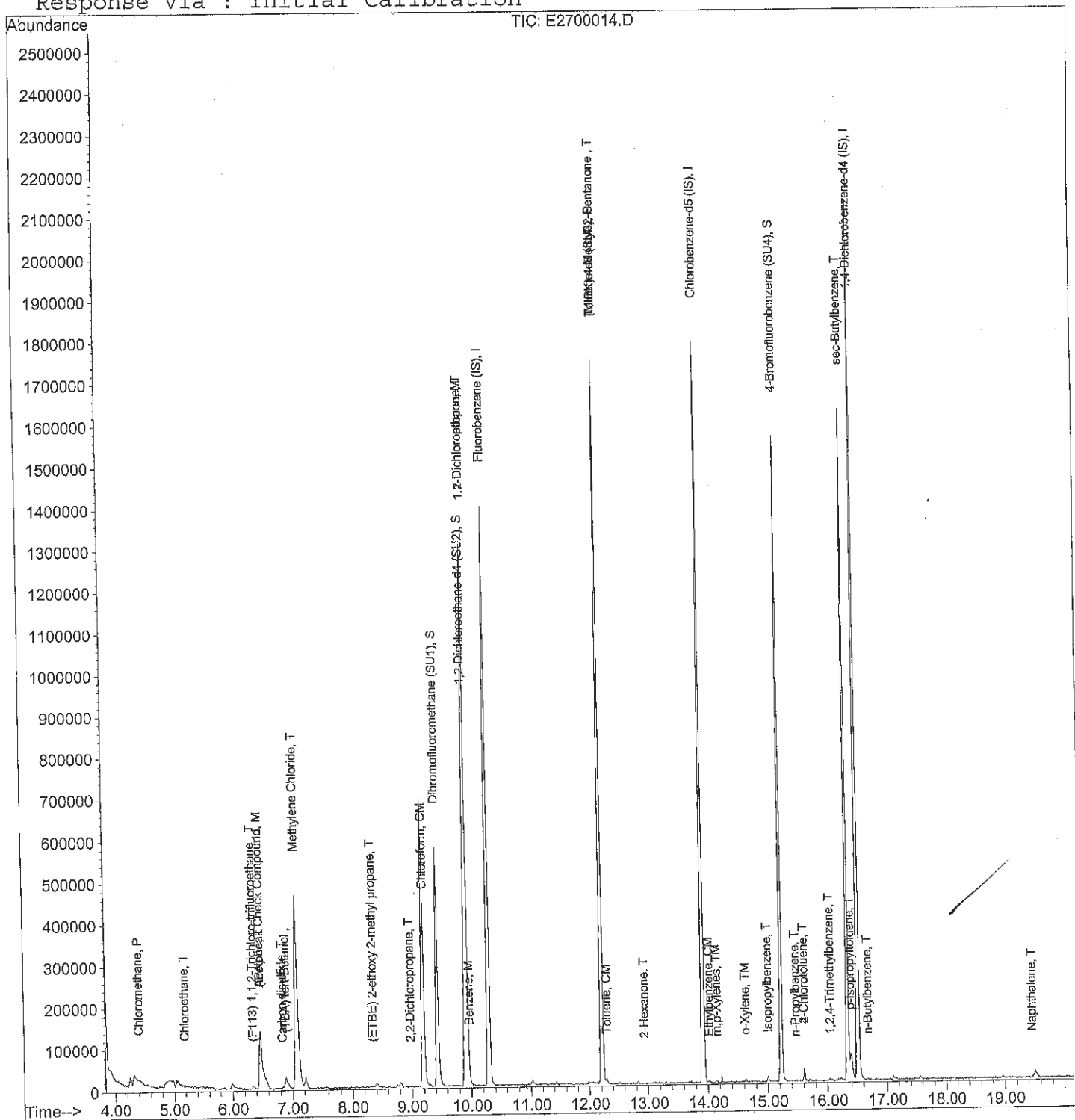
Quantitation Report

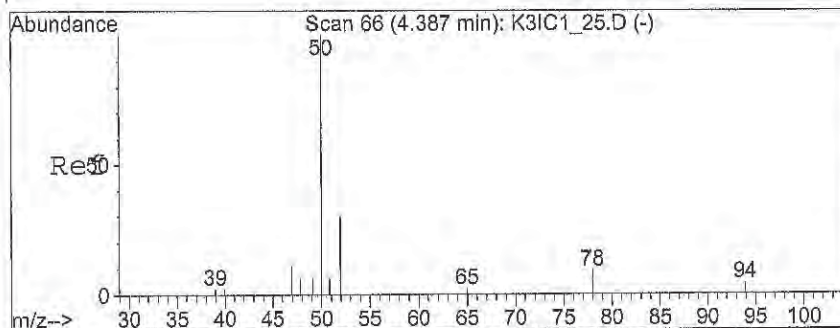
Data File : C:\HPCHEM\1\DATA\052714L3\E2700014.D
Acq On : 27 May 2014 4:04 pm
Sample : 3E42701-11
Misc : 100cc SVL-512-SA5D-SV-16.75-17.75
MS Integration Params: rteint.p
Quant Time: May 27 16:26 19114

Vial: 5
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

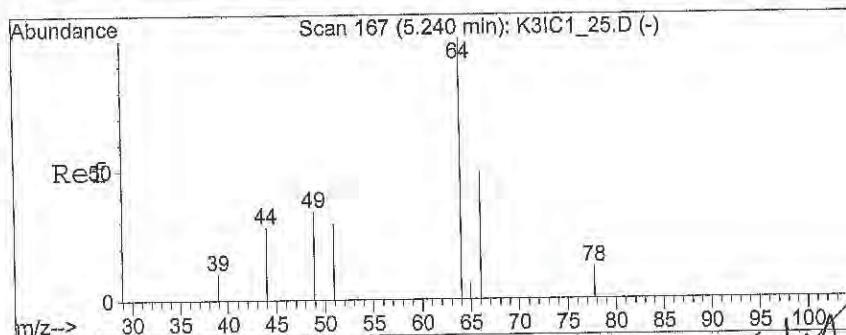
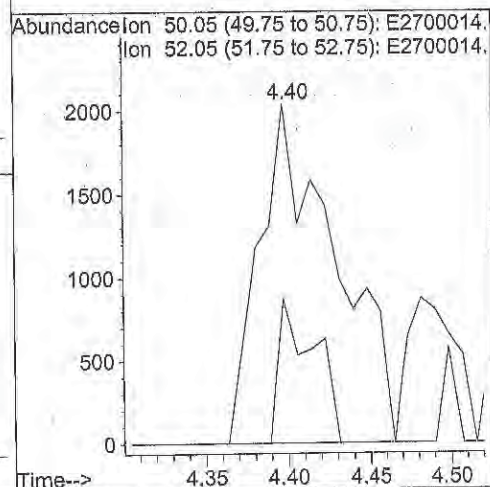
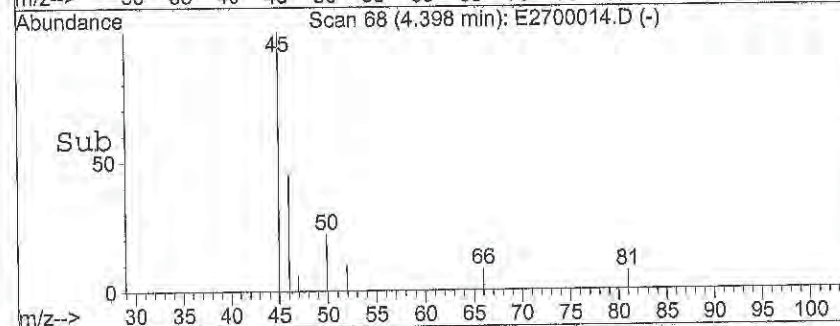
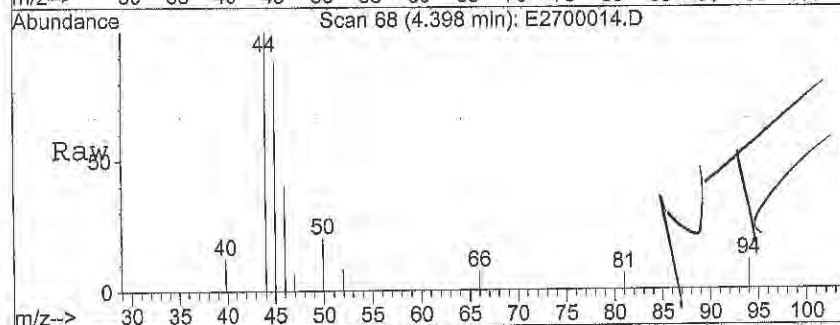
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration





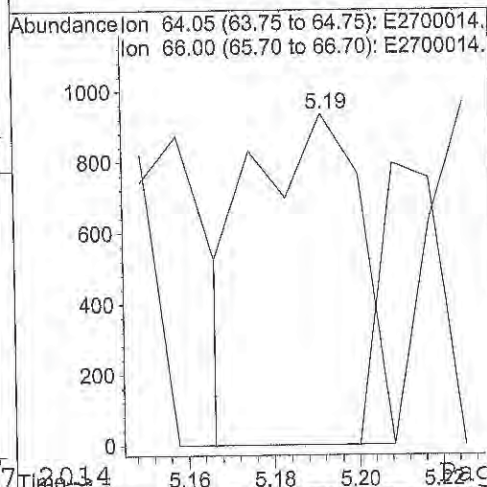
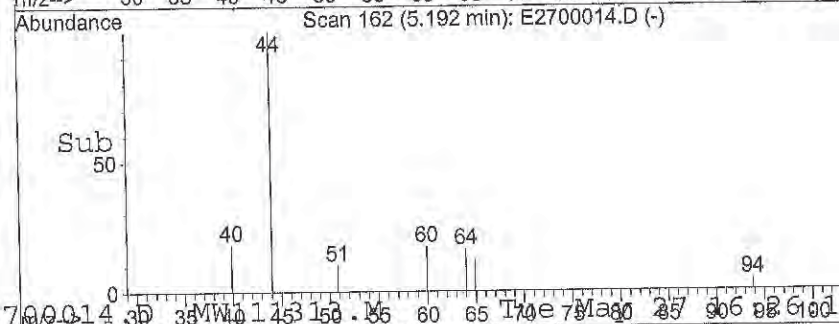
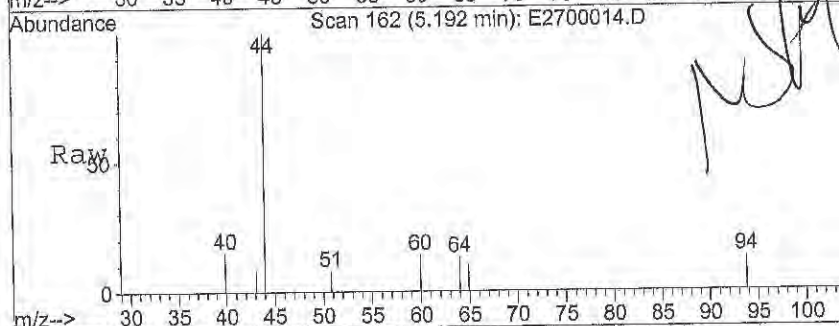
#4
Chloromethane
Concen: 1.30 ug/L
RT: 4.40 min Scan# 68
Delta R.T. 0.01 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm

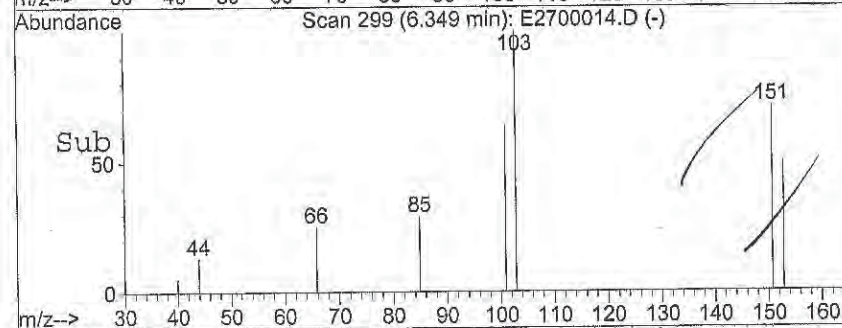
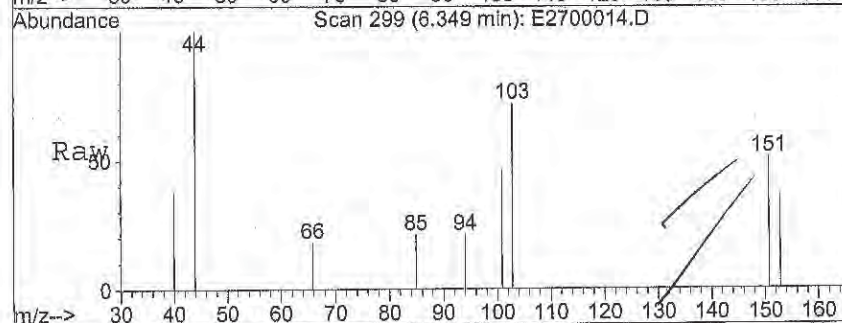
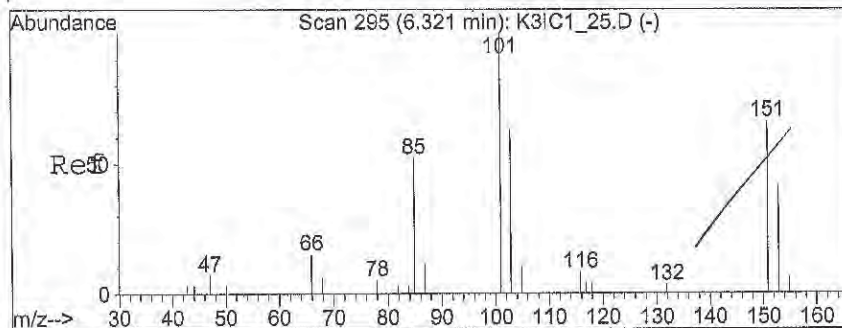
Tgt Ion: 50 Resp: 6574
Ion Ratio Lower Upper
50 100
52 20.0 26.9 40.3#



#7
Chloroethane
Concen: 1.95 ug/L
RT: 5.19 min Scan# 162
Delta R.T. -0.05 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm

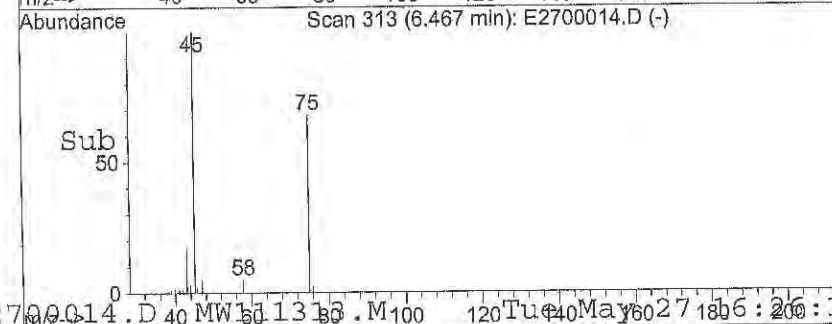
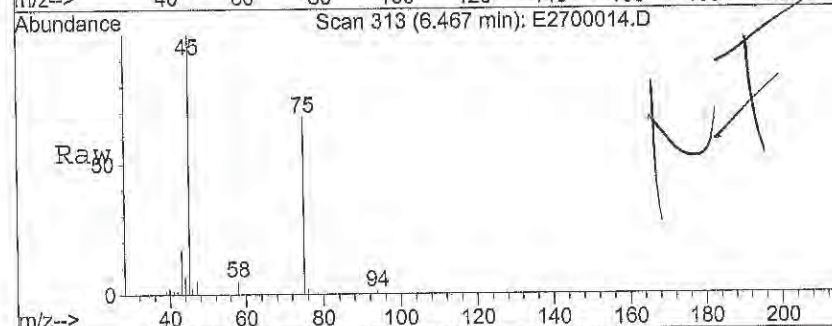
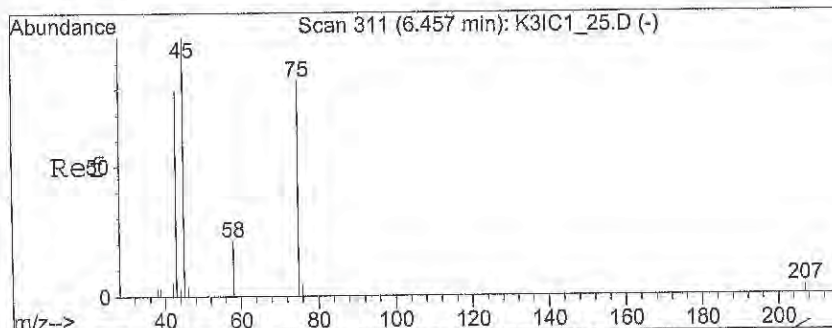
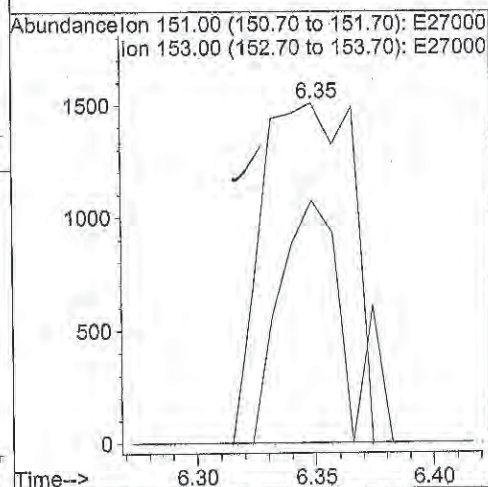
Tgt Ion: 64 Resp: 1636
Ion Ratio Lower Upper
64 100
66 48.0 35.4 53.0





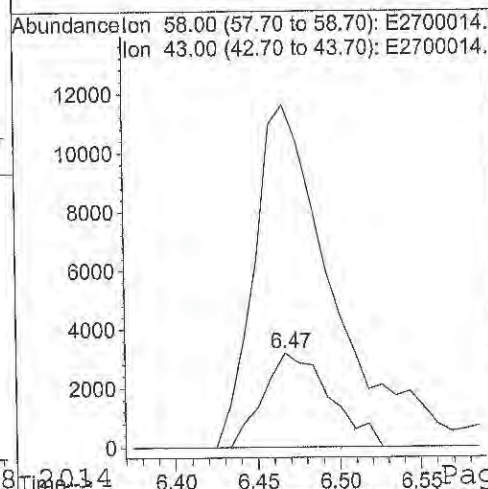
#9
 (F113) 1,1,2-Trichloro-trifluor
 Concen: 1.30 ug/L
 RT: 6.35 min Scan# 299
 Delta R.T. 0.03 min
 Lab File: E2700014.D
 Acq: 27 May 2014 4:04 pm

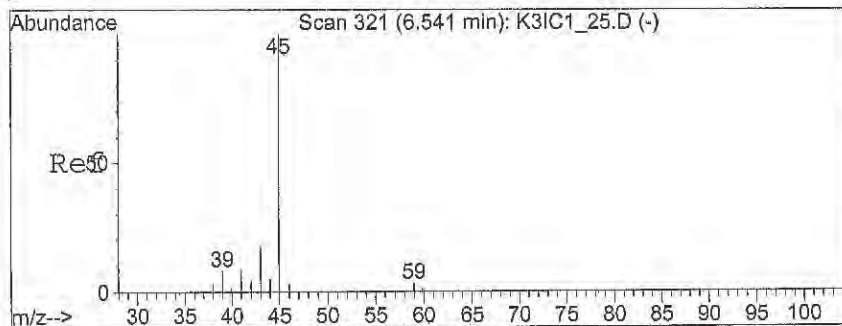
Tgt Ion: 151 Resp: 3993
 Ion Ratio Lower Upper
 151 100
 153 51.5 49.6 74.4



#11
 Acetone
 Concen: 10.48 ug/L
 RT: 6.47 min Scan# 313
 Delta R.T. 0.01 min
 Lab File: E2700014.D
 Acq: 27 May 2014 4:04 pm

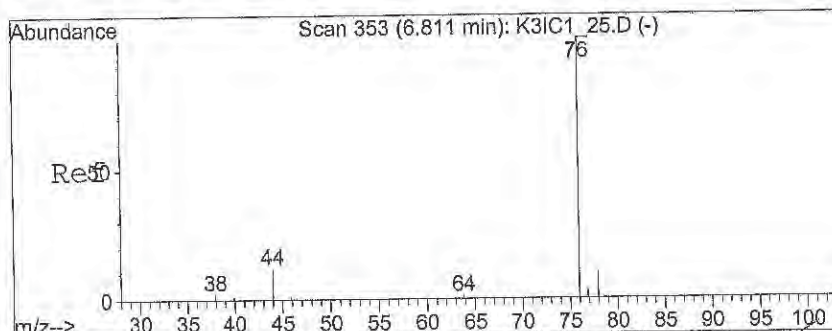
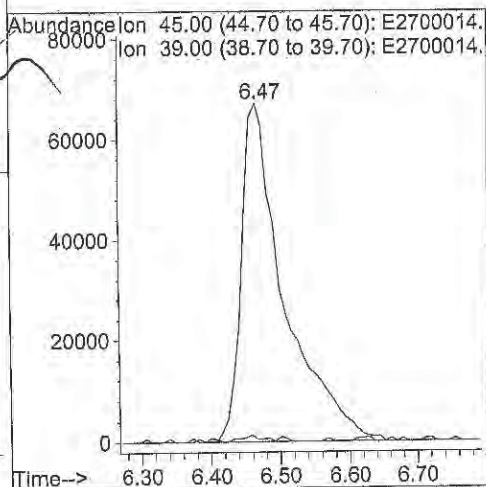
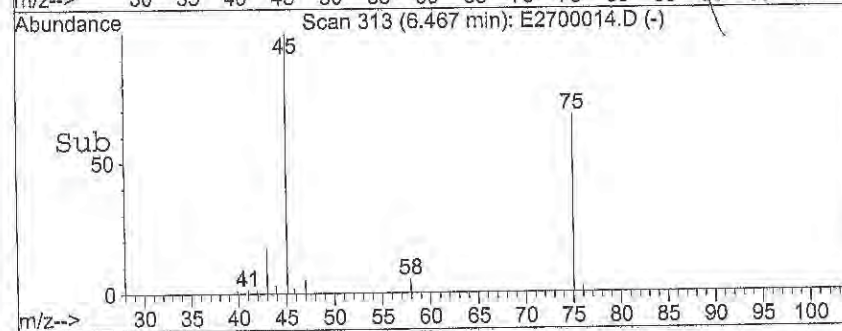
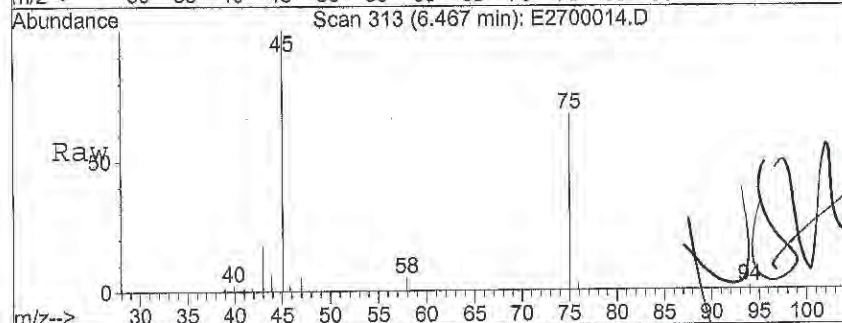
Tgt Ion: 58 Resp: 8998
 Ion Ratio Lower Upper
 58 100
 43 440.5 360.9 541.3





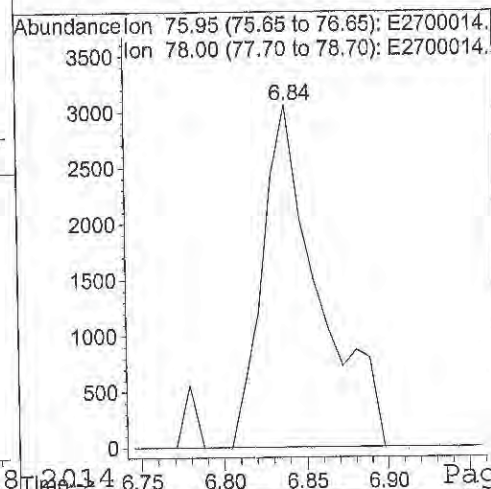
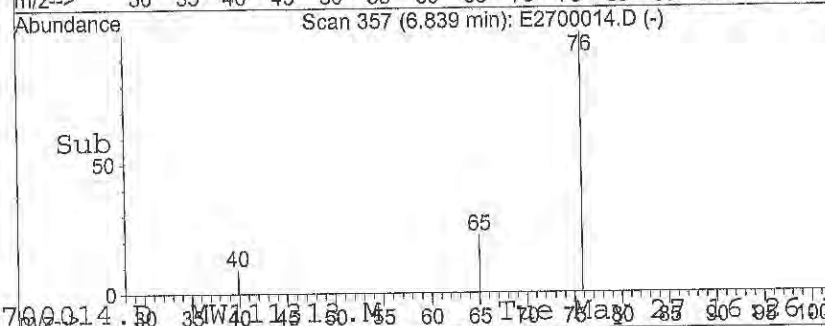
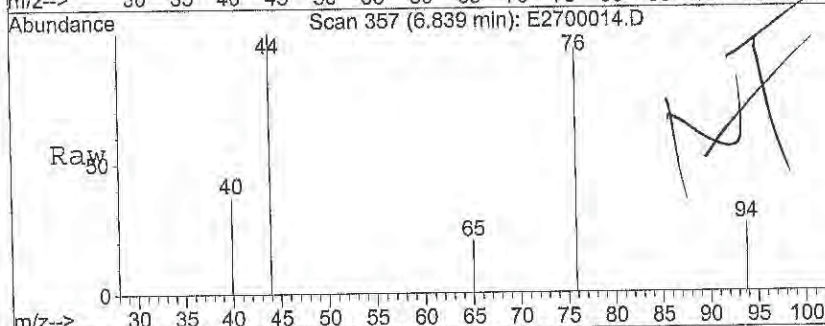
#12
 (IPA) Leak Check Compound
 Concen: 1524.67 ug/L
 RT: 6.47 min Scan# 313
 Delta R.T. -0.07 min
 Lab File: E2700014.D
 Acq: 27 May 2014 4:04 pm

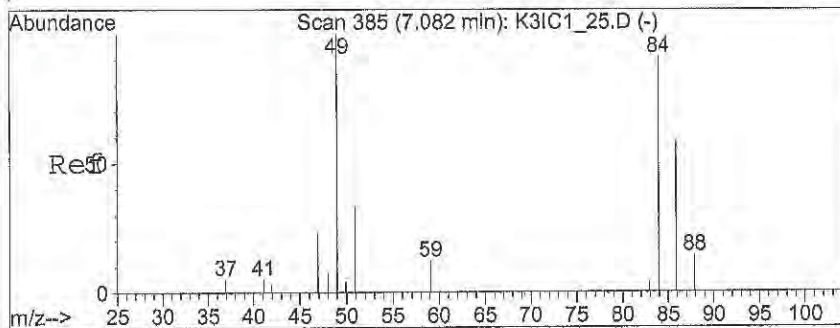
Tgt Ion: 45 Resp: 285485
 Ion Ratio Lower Upper
 45 100
 39 0.9 4.9 7.3#



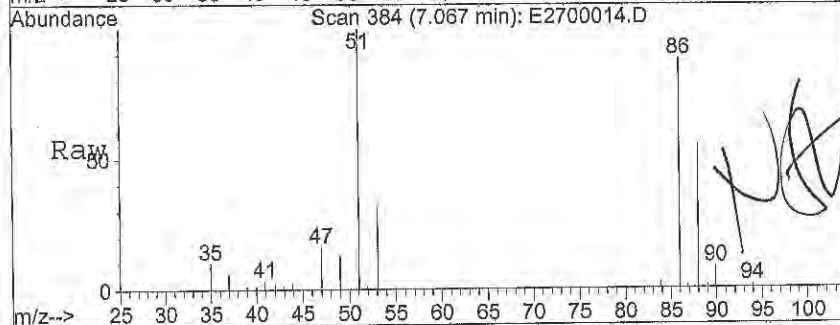
#13
 Carbon disulfide
 Concen: 0.56 ug/L
 RT: 6.84 min Scan# 357
 Delta R.T. 0.03 min
 Lab File: E2700014.D
 Acq: 27 May 2014 4:04 pm

Tgt Ion: 76 Resp: 7222
 Ion Ratio Lower Upper
 76 100
 78 0.0 7.0 10.4#

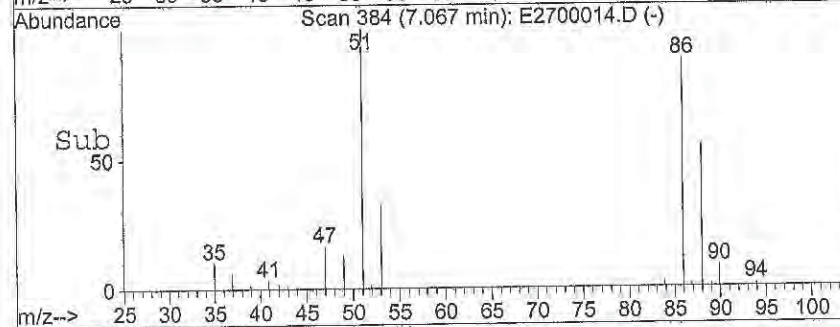




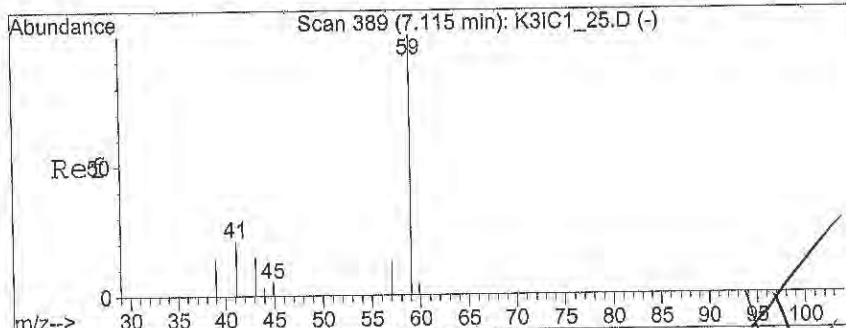
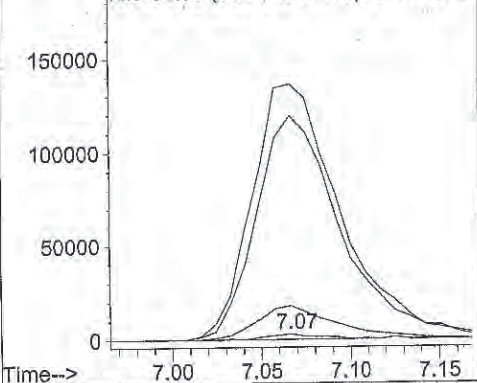
#14
Methylene Chloride
Concen: 1.33 ug/L
RT: 7.07 min Scan# 384
Delta R.T. -0.01 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm



Tgt Ion: 84 Resp: 5710
Ion Ratio Lower Upper
84 100
49 959.1 89.8 134.6#
86 6992.2 51.1 76.7#
51 8352.1 28.5 42.7#

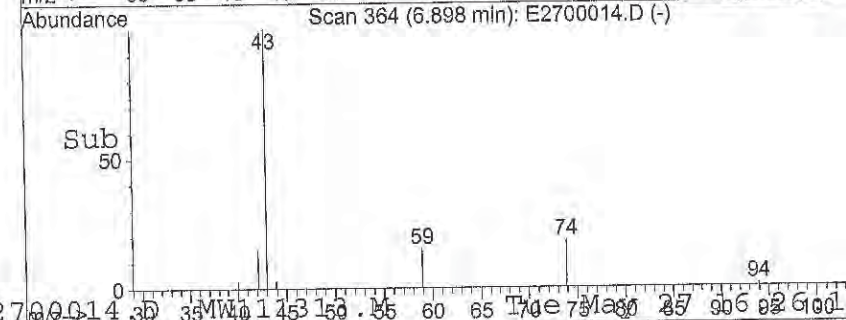
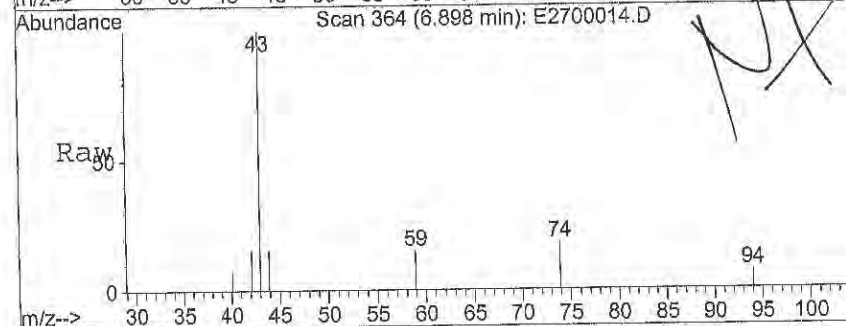


Abundance Ion 83.95 (83.65 to 84.65): E2700014.
Ion 48.95 (48.65 to 49.65): E2700014.
Ion 85.95 (85.65 to 86.65): E2700014.
Ion 51.05 (50.75 to 51.75): E2700014.

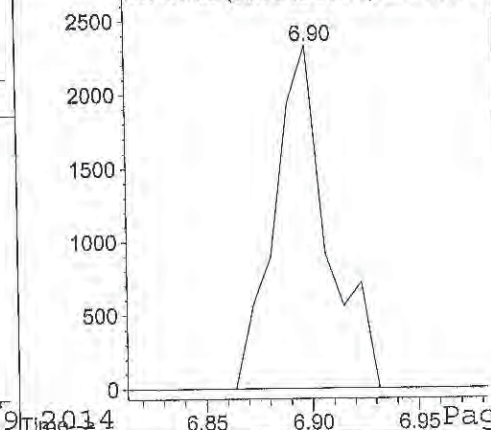


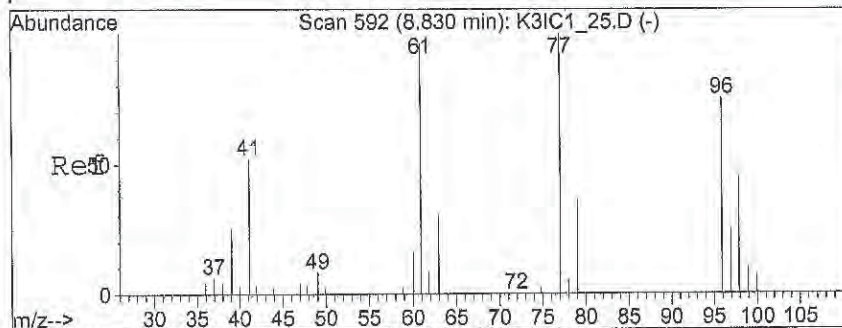
#15
(TBA) tert-Butanol
Concen: 15.10 ug/L
RT: 6.90 min Scan# 364
Delta R.T. -0.22 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm

Tgt Ion: 59 Resp: 4013
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#



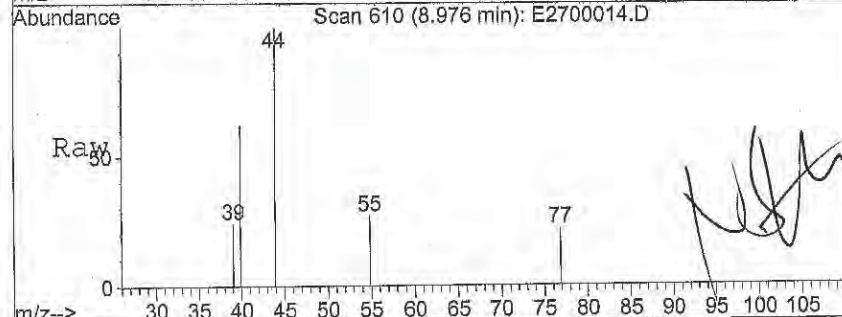
Abundance Ion 59.00 (58.70 to 59.70): E2700014.
Ion 57.00 (56.70 to 57.70): E2700014.



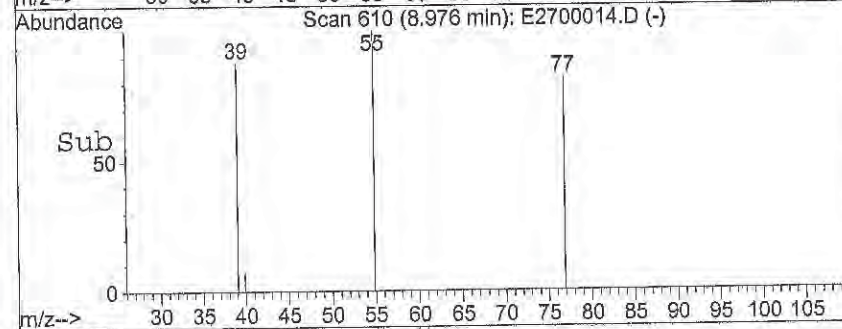
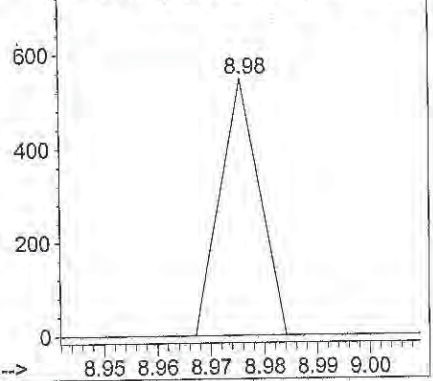


#20
 2,2-Dichloropropane
 Concen: 0.05 ug/L
 RT: 8.98 min Scan# 610
 Delta R.T. 0.15 min
 Lab File: E2700014.D
 Acq: 27 May 2014 4:04 pm

Tgt Ion:	77	Resp:	278
Ion	Ratio	Lower	Upper
77	100		
79	0.0	26.6	40.0#
97	0.0	18.9	28.3#
41	0.0	42.6	64.0#

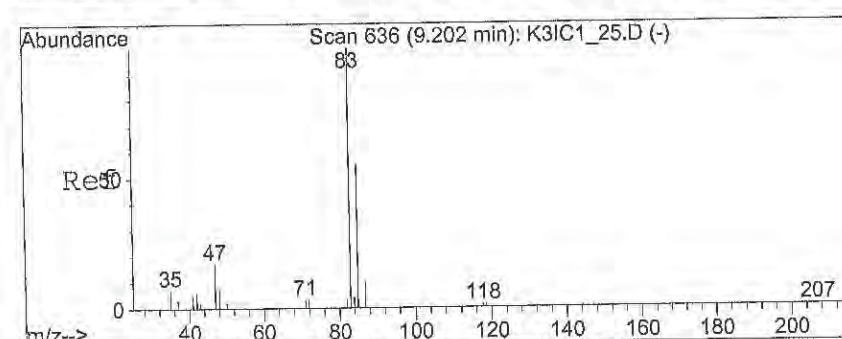


Abundance Ion 77.05 (76.75 to 77.75): E2700014.
 Ion 79.00 (78.70 to 79.70): E2700014.
 Ion 96.95 (96.65 to 97.65): E2700014.
 Ion 41.05 (40.75 to 41.75): E2700014.

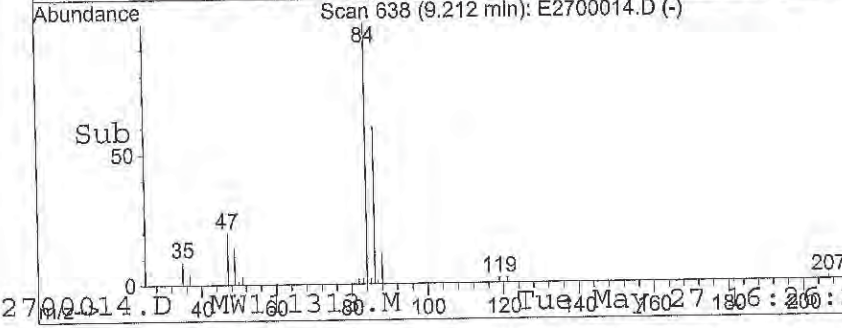
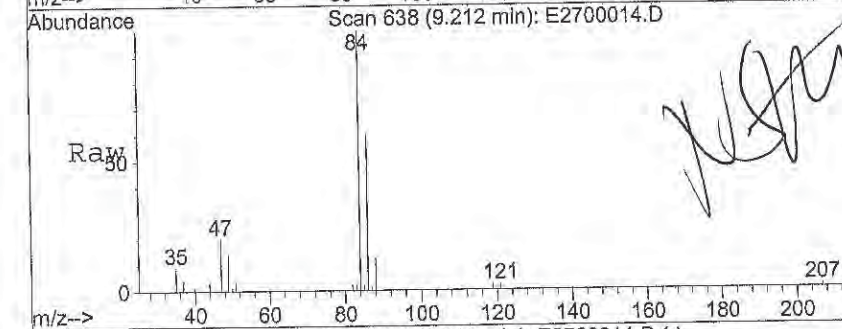
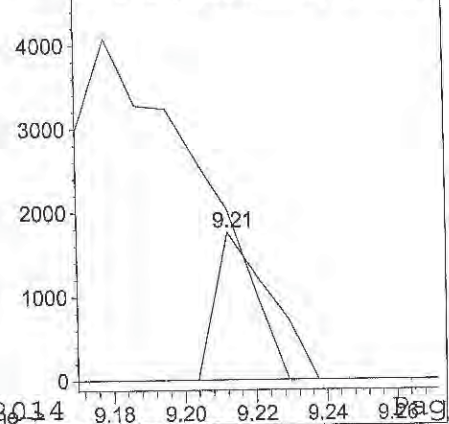


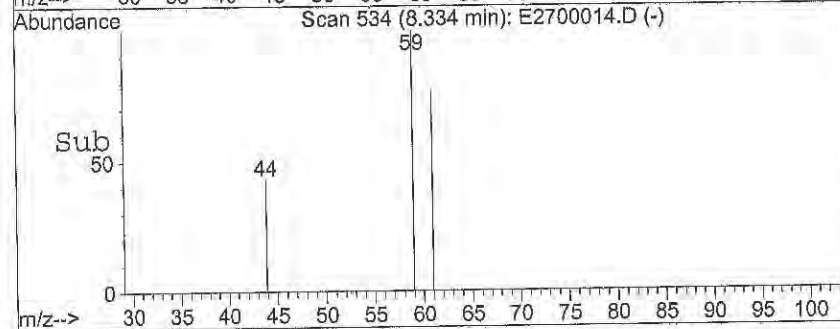
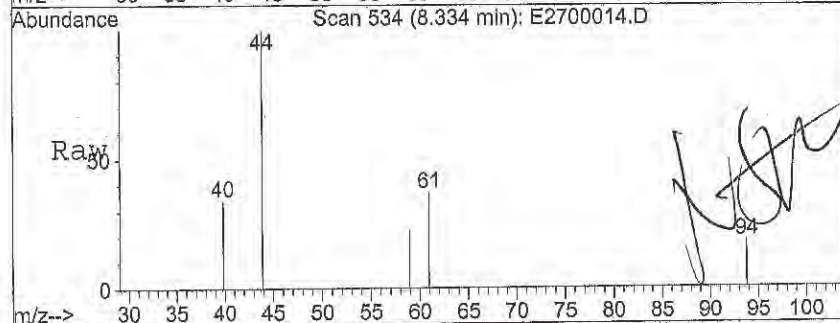
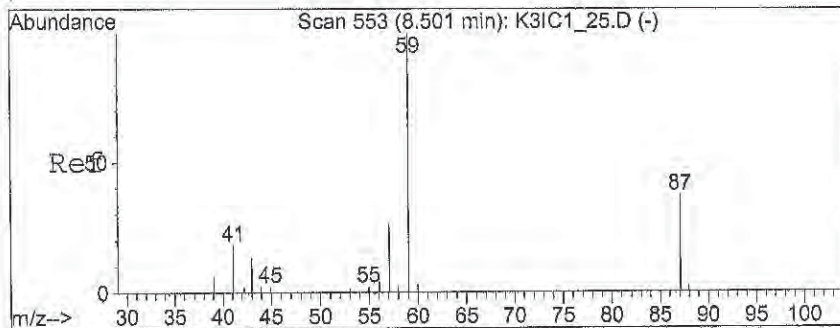
#24
 Chloroform
 Concen: 0.23 ug/L
 RT: 9.21 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: E2700014.D
 Acq: 27 May 2014 4:04 pm

Tgt Ion:	83	Resp:	1869
Ion	Ratio	Lower	Upper
83	100		
85	0.0	51.8	77.6#



Abundance Ion 83.00 (82.70 to 83.70): E2700014.
 Ion 84.95 (84.65 to 85.65): E2700014.

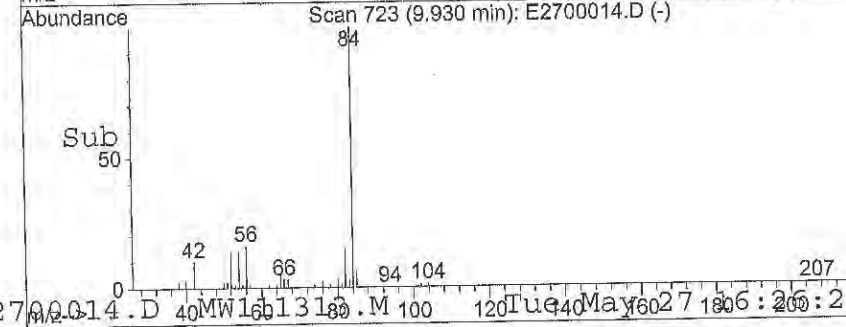
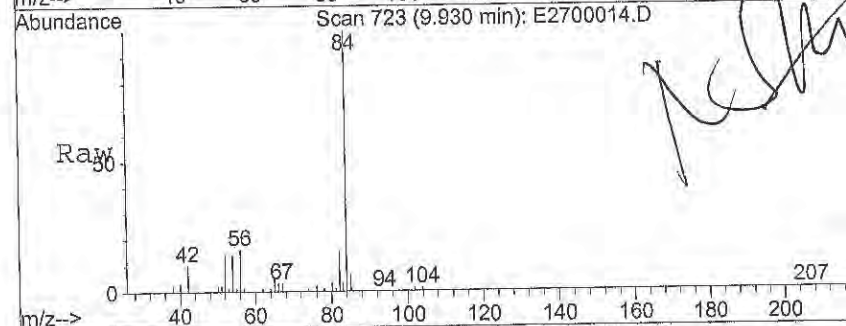
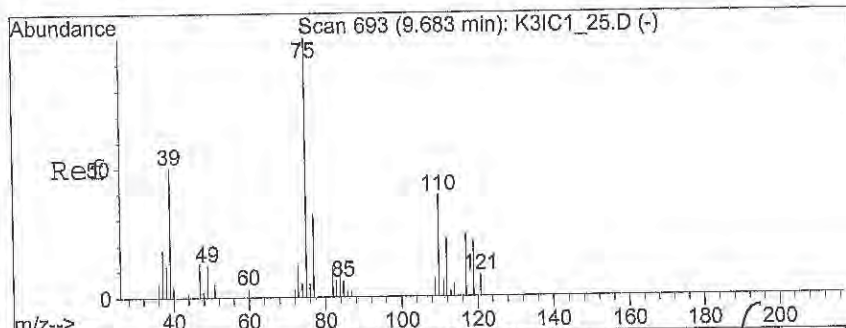
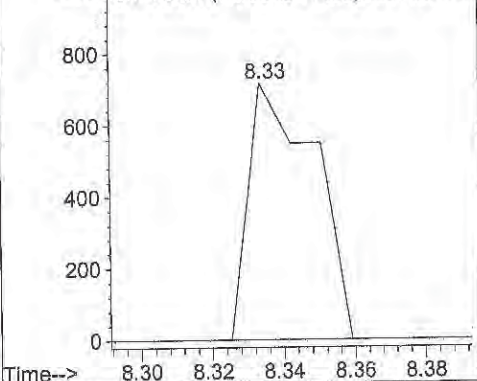




#25
(ETBE) 2-ethoxy 2-methyl propan
Concen: 0.08 ug/L
RT: 8.33 min Scan# 534
Delta R.T. -0.17 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm

Tgt Ion: 59 Resp: 920
Ion Ratio Lower Upper
59 100
87 0.0 27.8 41.8#
57 0.0 19.8 29.6#
77 0.0 0.0 0.0

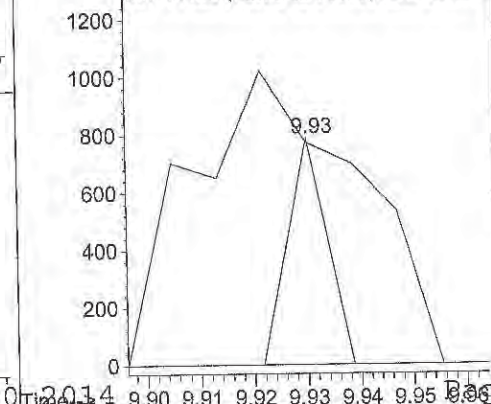
Abundance Ion 59.00 (58.70 to 59.70): E2700014.
Ion 87.10 (86.80 to 87.80): E2700014.
Ion 57.00 (56.70 to 57.70): E2700014.
Ion 76.95 (76.65 to 77.65): E2700014.

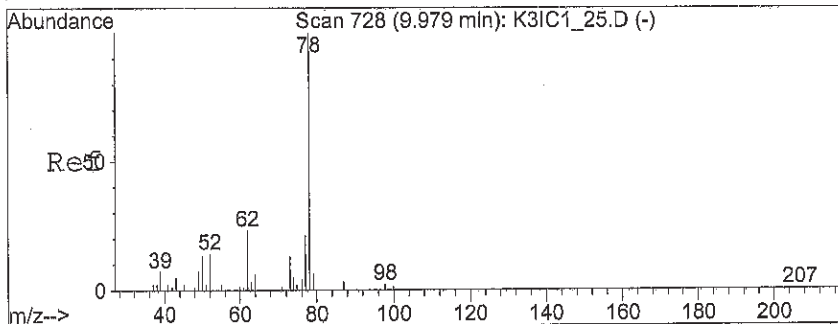


#29
1,1-Dichloropropene
Concen: 0.07 ug/L
RT: 9.93 min Scan# 723
Delta R.T. 0.25 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm

Tgt Ion: 75 Resp: 399
Ion Ratio Lower Upper
75 100
110 0.0 29.0 43.6#
77 556.1 25.0 37.4#

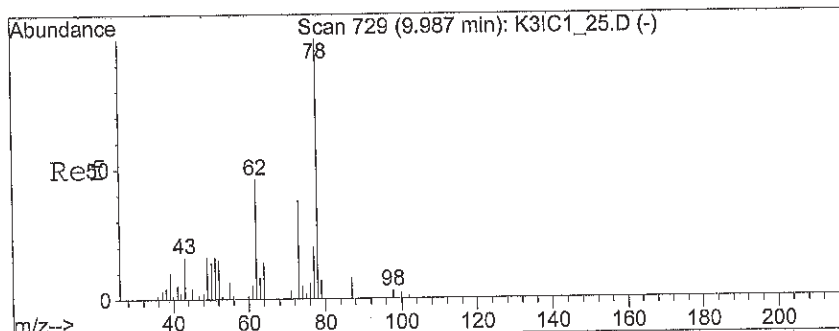
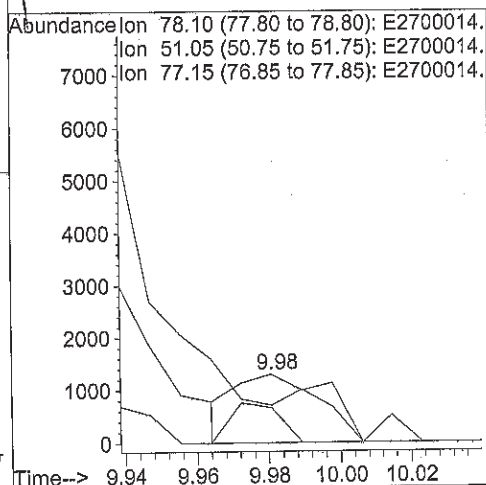
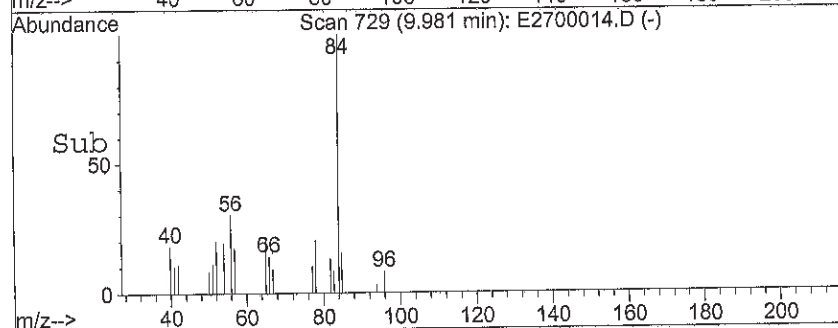
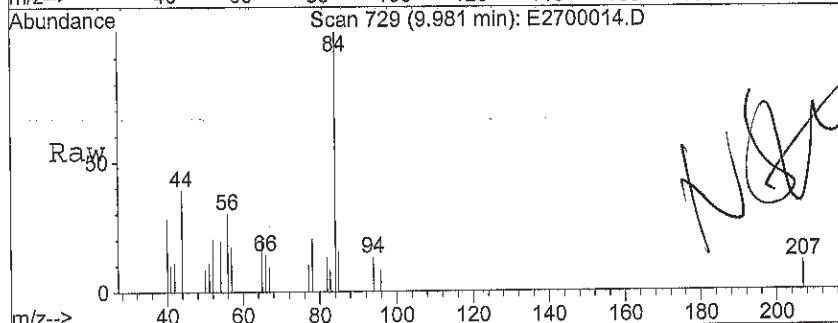
Abundance Ion 75.05 (74.75 to 75.75): E2700014.
Ion 110.05 (109.75 to 110.75): E2700014.
Ion 77.05 (76.75 to 77.75): E2700014.





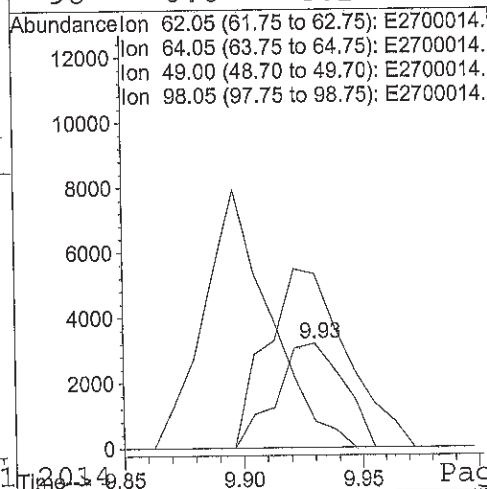
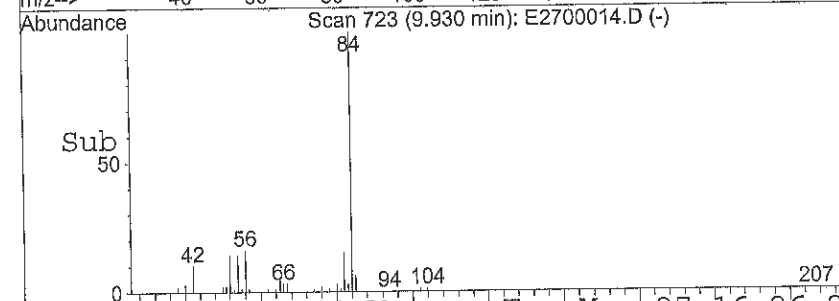
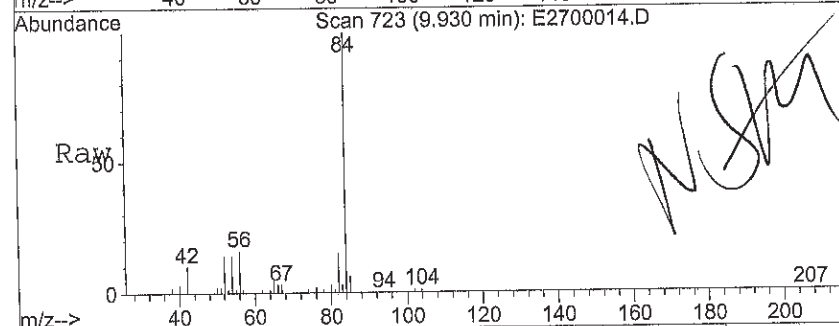
#31
Benzene
Concen: 0.16 ug/L
RT: 9.98 min Scan# 729
Delta R.T. 0.00 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm

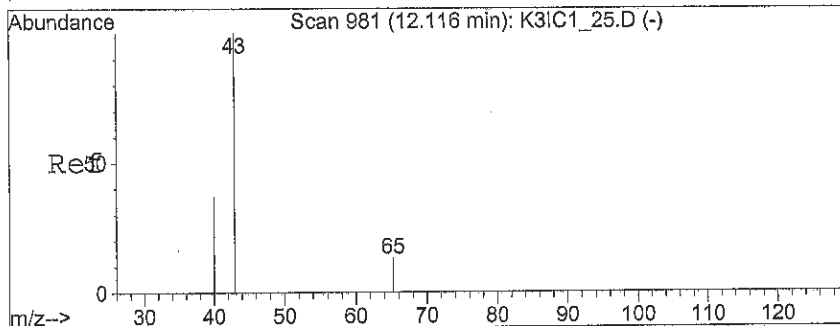
Tgt Ion: 78 Resp: 2297
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 31.0 16.6 24.8#



#32
1,2-Dichloroethane
Concen: 1.21 ug/L
RT: 9.93 min Scan# 723
Delta R.T. -0.06 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm

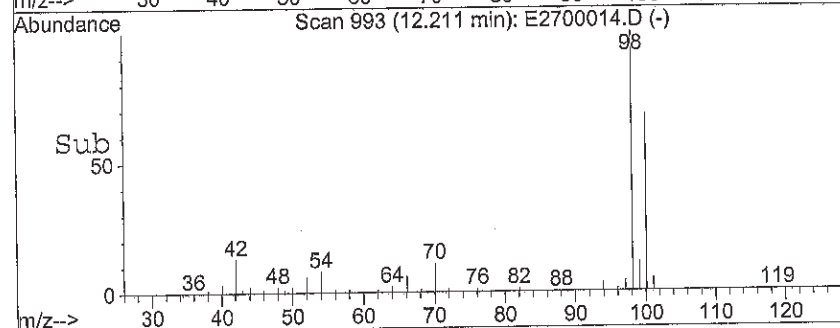
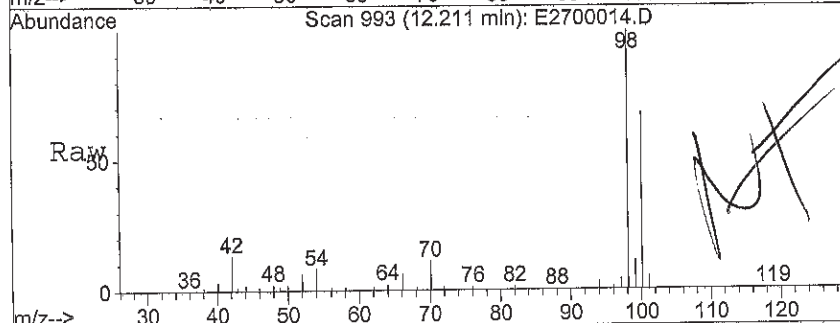
Tgt Ion: 62 Resp: 6260
Ion Ratio Lower Upper
62 100
64 203.2 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#



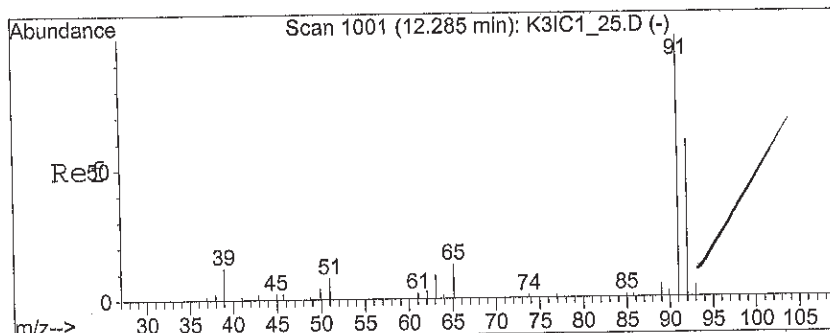
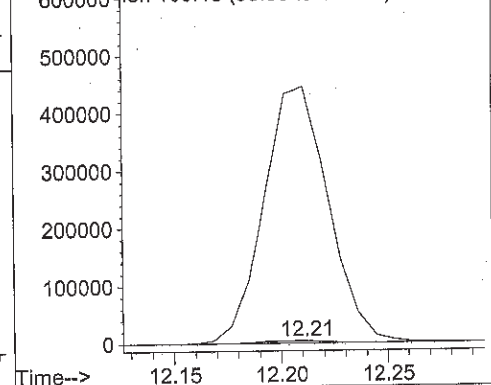


#40
 (MIBK) 4-Methyl-2-Pentanone
 Concen: 2.99 ug/L
 RT: 12.21 min Scan# 993
 Delta R.T. 0.09 min
 Lab File: E2700014.D
 Acq: 27 May 2014 4:04 pm

Tgt Ion: 43 Resp: 7320
 Ion Ratio Lower Upper
 43 100
 58 122.9 0.0 0.0#
 85 0.0 0.0 0.0
 100 12746.8 0.0 0.0#

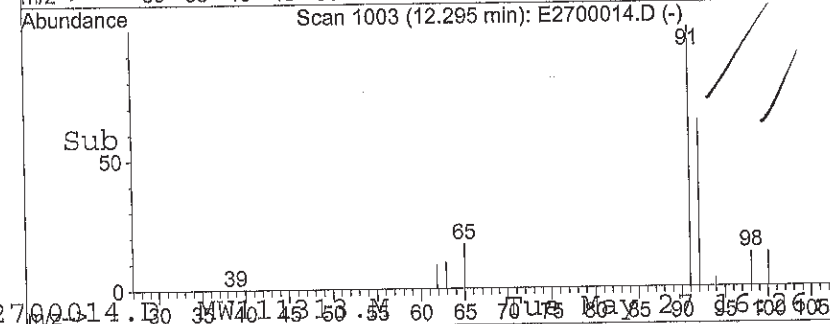
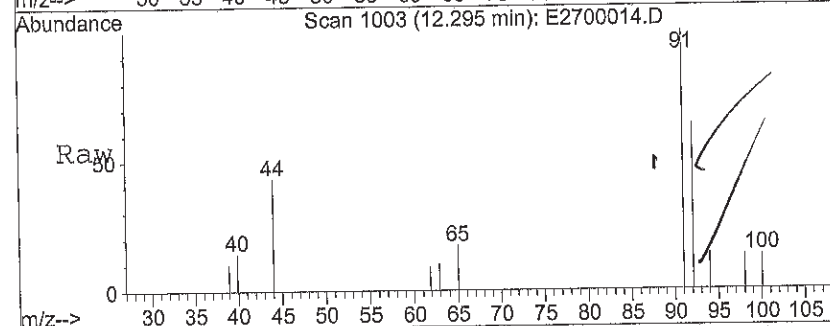


Abundance Ion 43.00 (42.70 to 43.70): E2700014.
 700000 Ion 58.10 (57.80 to 58.80): E2700014.
 600000 Ion 85.05 (84.75 to 85.75): E2700014.
 500000 Ion 100.15 (99.85 to 100.85): E2700014.

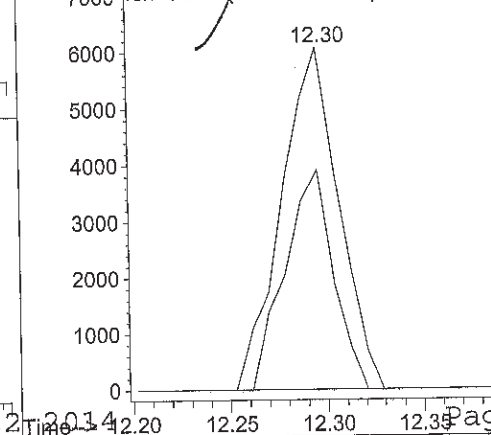


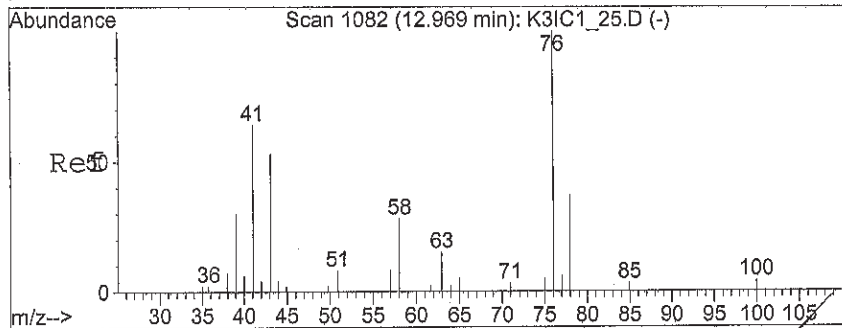
#41
 Toluene
 Concen: 0.74 ug/L
 RT: 12.30 min Scan# 1003
 Delta R.T. 0.01 min
 Lab File: E2700014.D
 Acq: 27 May 2014 4:04 pm

Tgt Ion: 91 Resp: 12428
 Ion Ratio Lower Upper
 91 100
 92 54.3 47.4 71.0



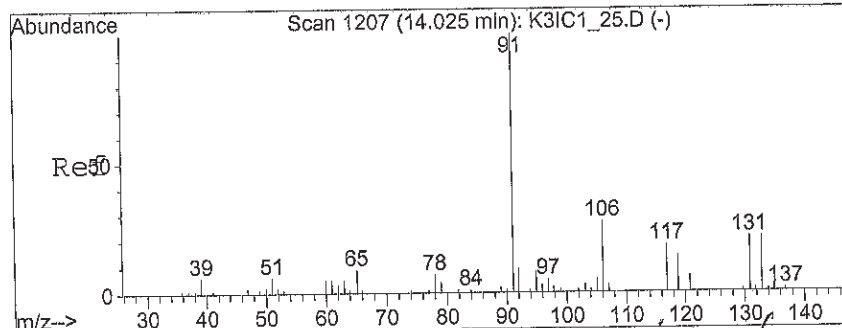
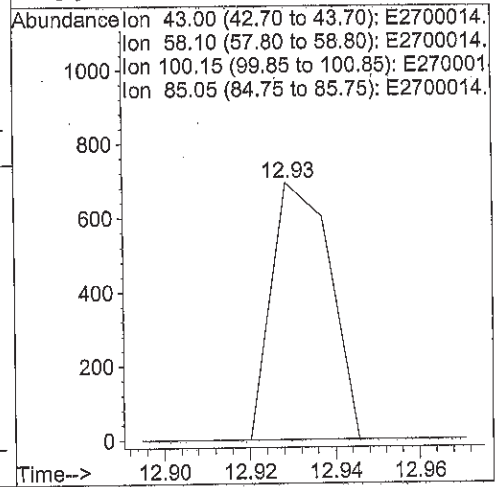
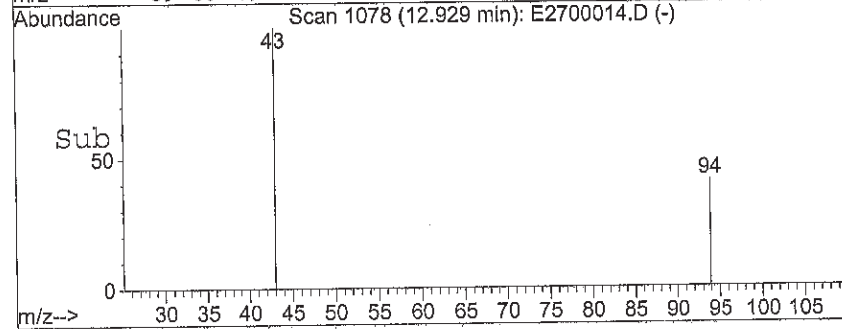
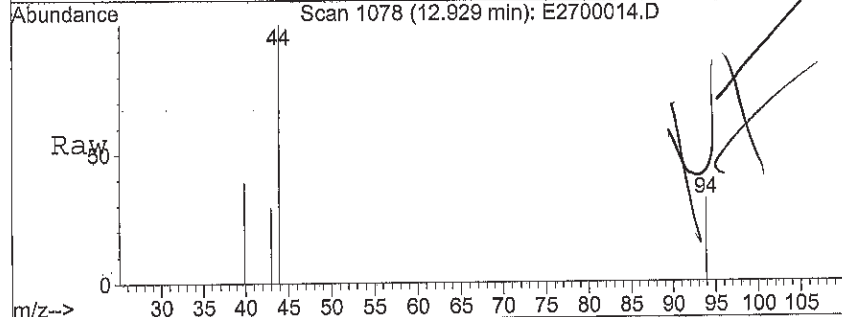
Abundance Ion 91.10 (90.80 to 91.80): E2700014.
 7000 Ion 92.10 (91.80 to 92.80): E2700014.





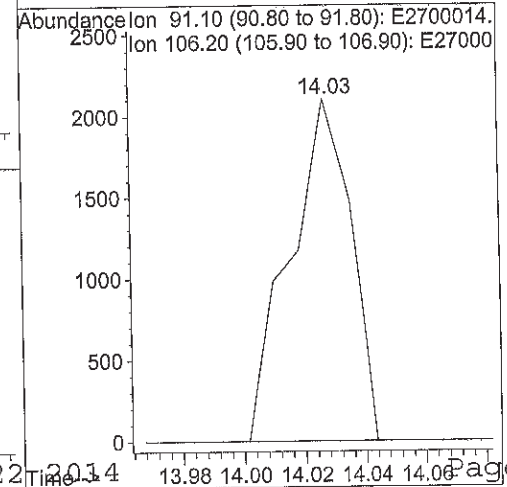
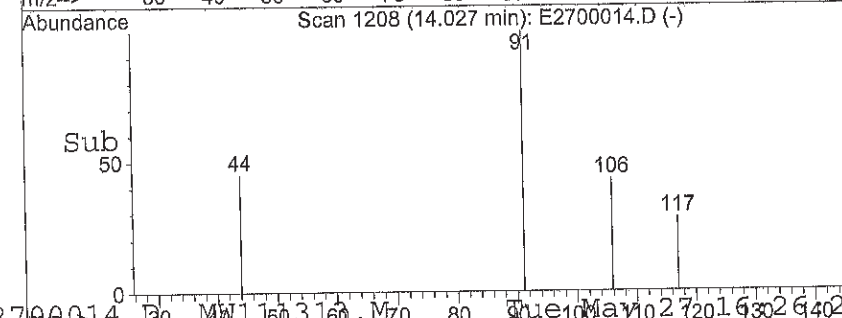
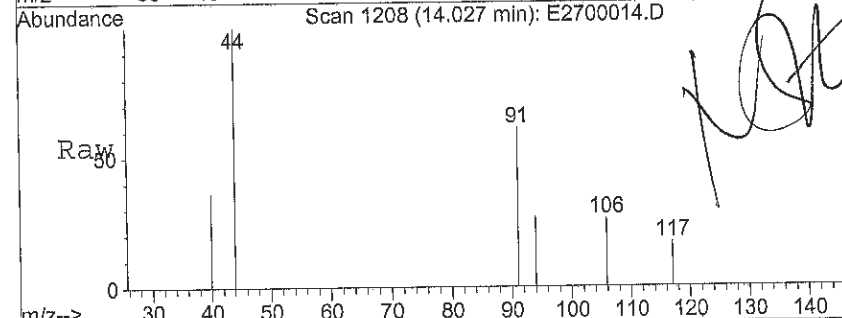
#46
2-Hexanone
Concen: 0.24 ug/L
RT: 12.93 min Scan# 1078
Delta R.T. -0.04 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm

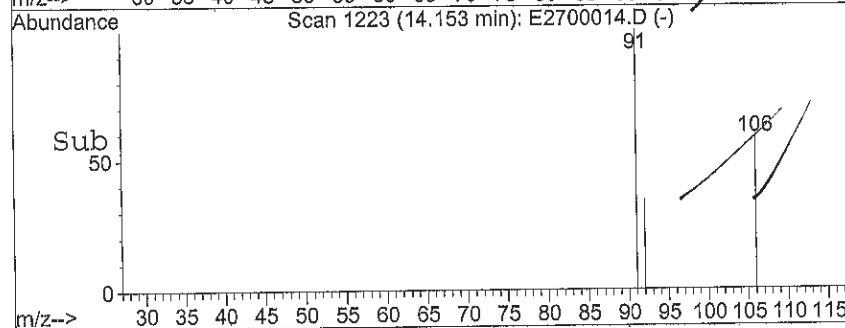
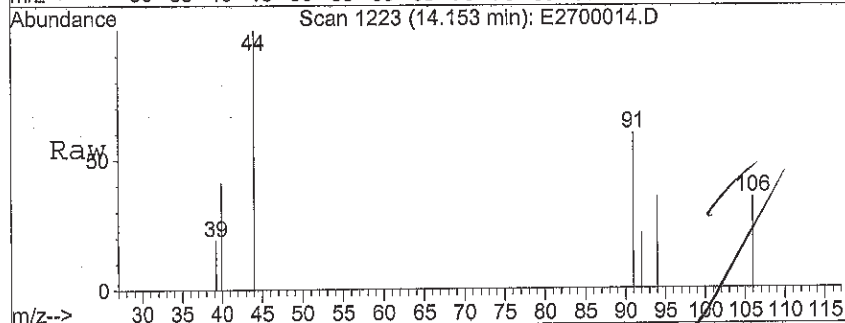
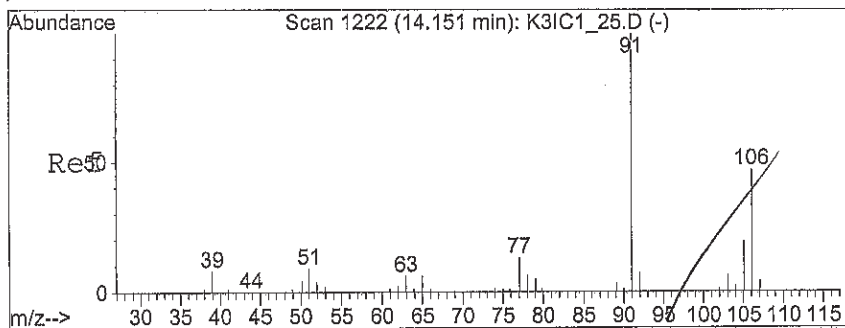
Tgt Ion:	43	Resp:	656
Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.9	61.3#
100	0.0	5.5	8.3#
85	0.0	4.3	6.5#



#51
Ethylbenzene
Concen: 0.15 ug/L
RT: 14.03 min Scan# 1208
Delta R.T. 0.00 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm

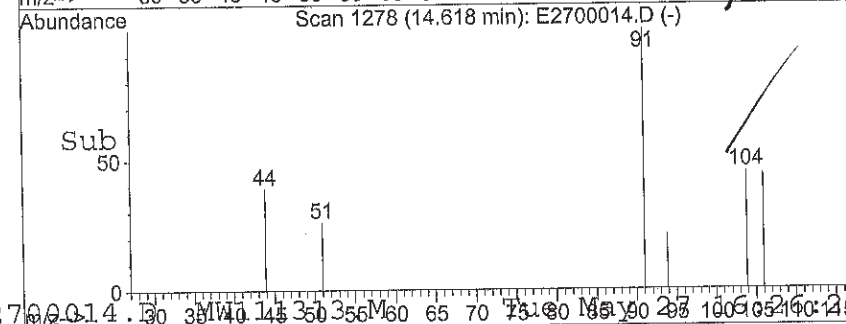
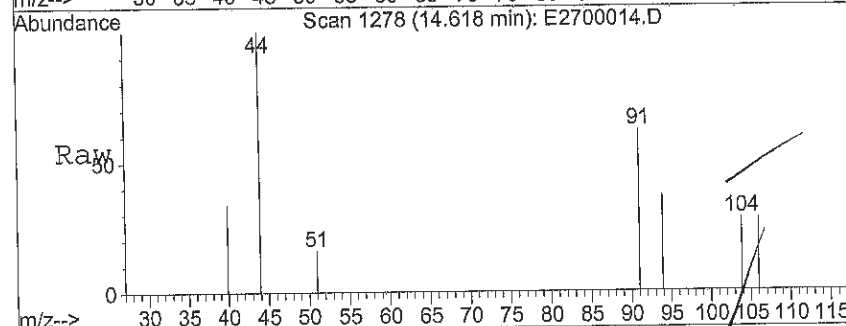
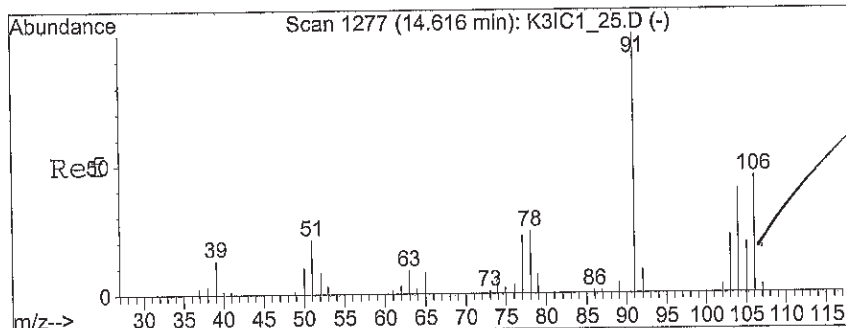
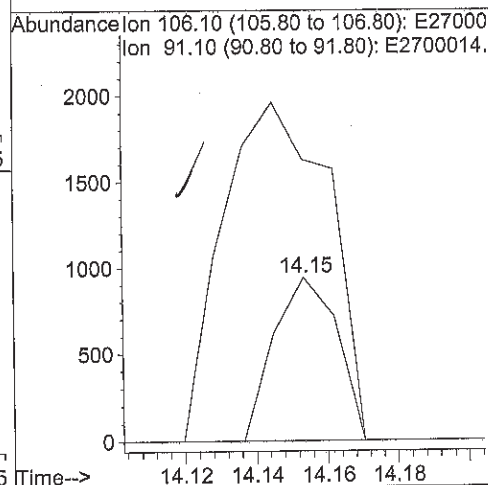
Tgt Ion:	91	Resp:	2908
Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.5	35.3#





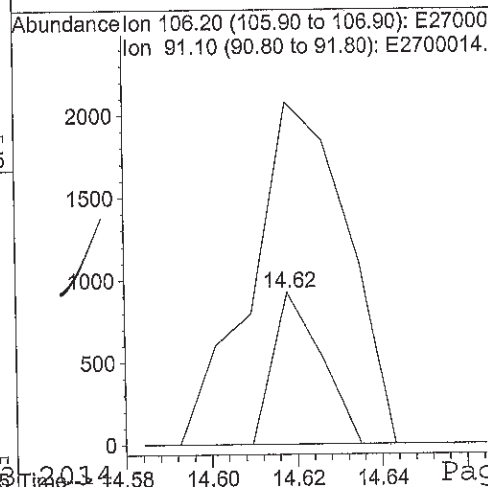
#52
m,p-Xylenes
Concen: 0.17 ug/L
RT: 14.15 min Scan# 1223
Delta R.T. 0.00 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm

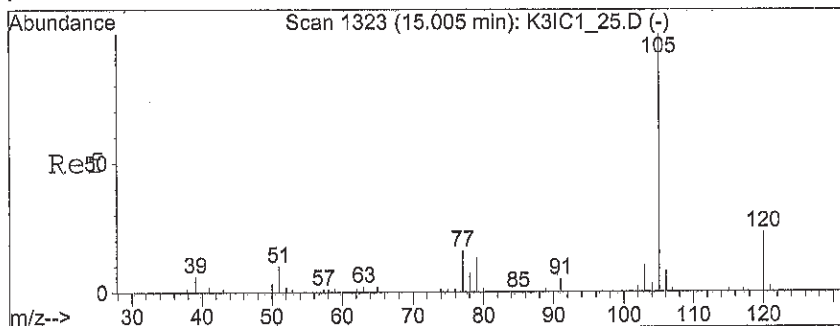
Tgt Ion:106 Resp: 1152
Ion Ratio Lower Upper
106 100
91 348.6 177.1 265.7#



#53
o-Xylene
Concen: 0.11 ug/L
RT: 14.62 min Scan# 1278
Delta R.T. 0.00 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm

Tgt Ion:106 Resp: 729
Ion Ratio Lower Upper
106 100
91 446.8 179.0 268.6#





#56

Isopropylbenzene

Concen: 0.02 ug/L

RT: 15.00 min Scan# 1323

Delta R.T. -0.01 min

Lab File: E2700014.D

Acq: 27 May 2014 4:04 pm

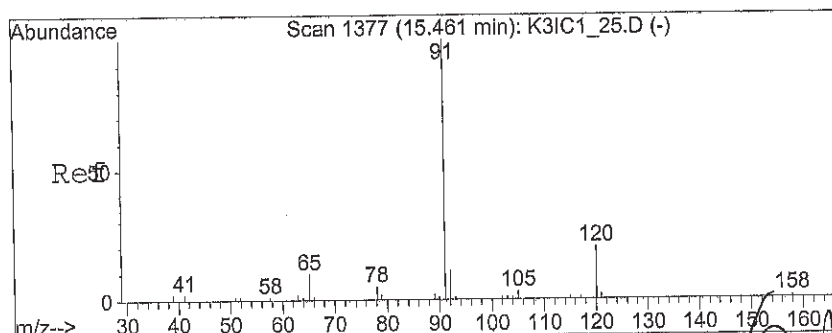
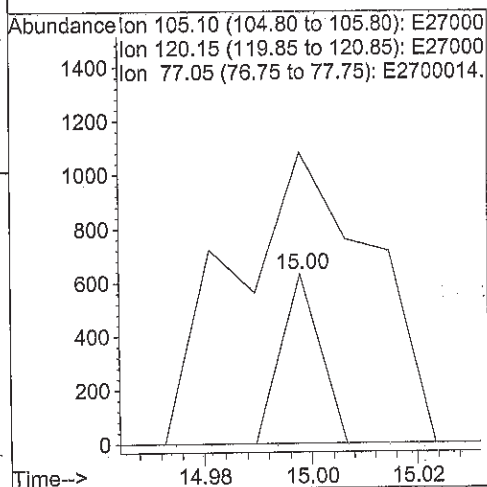
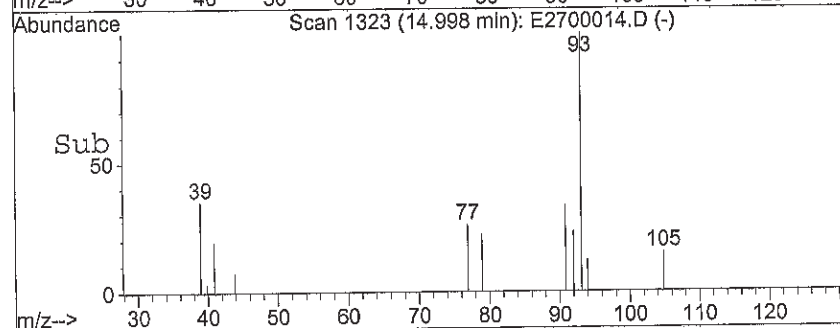
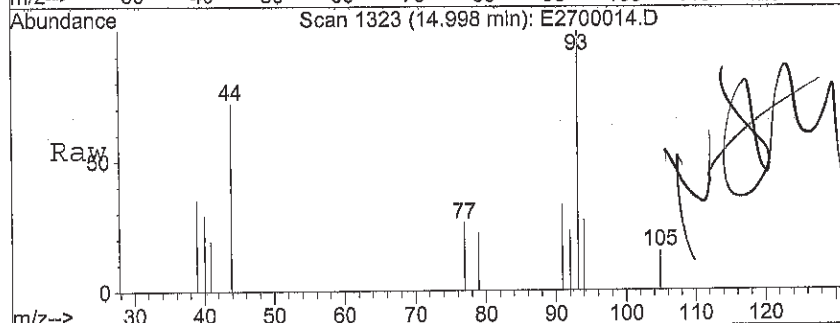
Tgt Ion: 105 Resp: 320

Ion Ratio Lower Upper

105 100

120 0.0 19.3 28.9#

77 607.8 13.1 19.7#



#62

n-Propylbenzene

Concen: 0.01 ug/L

RT: 15.46 min Scan# 1378

Delta R.T. 0.00 min

Lab File: E2700014.D

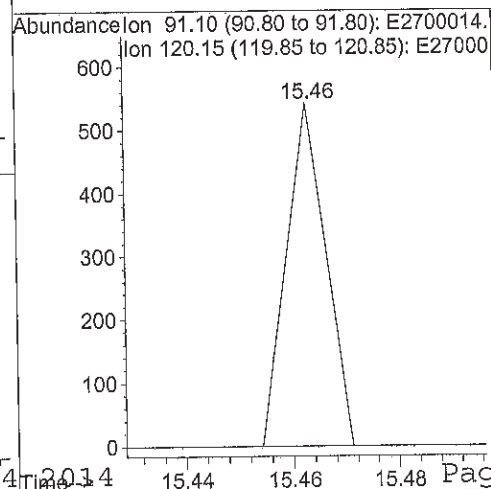
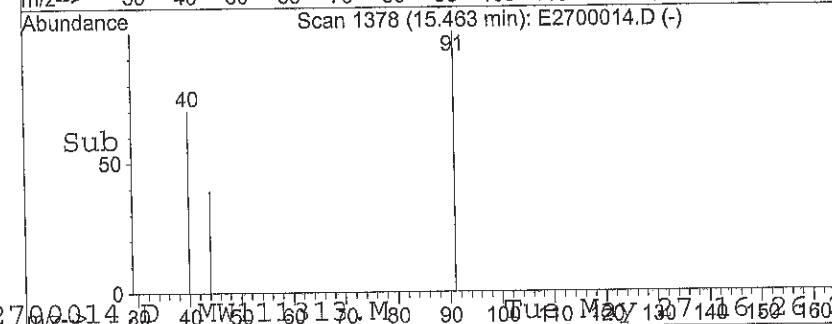
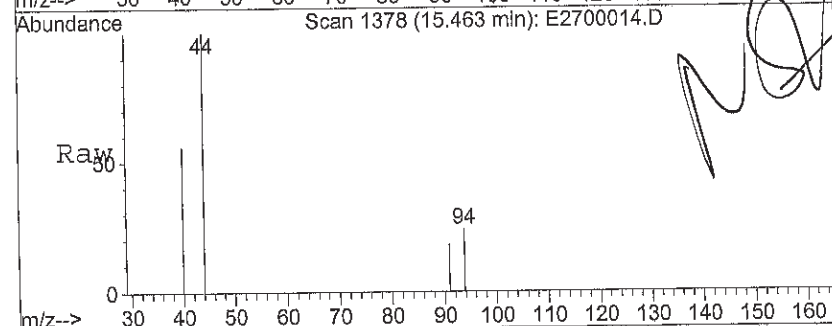
Acq: 27 May 2014 4:04 pm

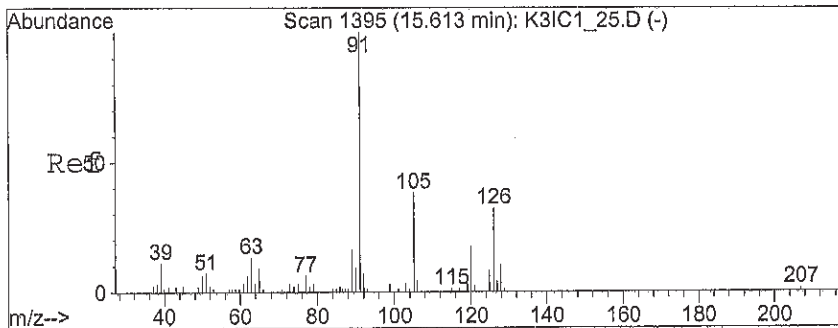
Tgt Ion: 91 Resp: 274

Ion Ratio Lower Upper

91 100

120 0.0 16.1 24.1#





#63

2-Chlorotoluene

Concen: 0.15 ug/L

RT: 15.61 min Scan# 1395

Delta R.T. -0.01 min

Lab File: E2700014.D

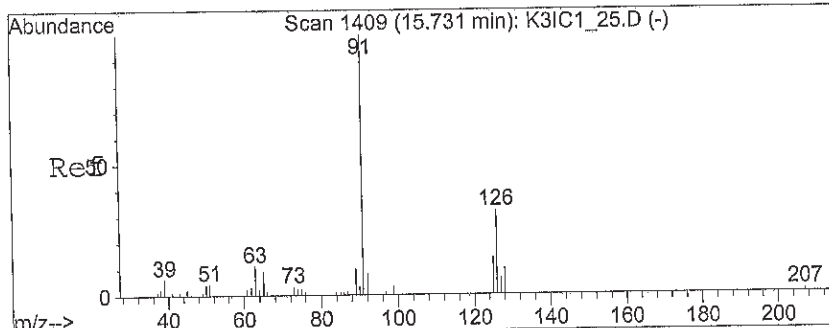
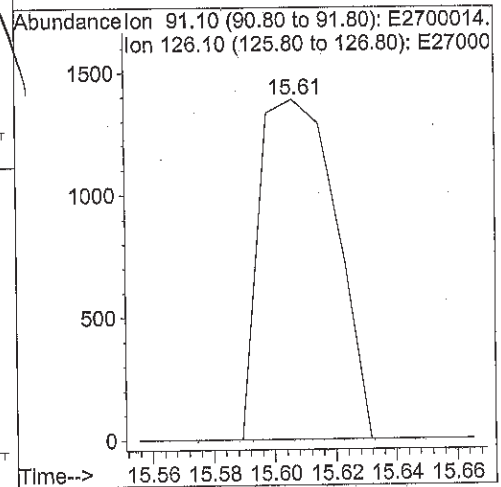
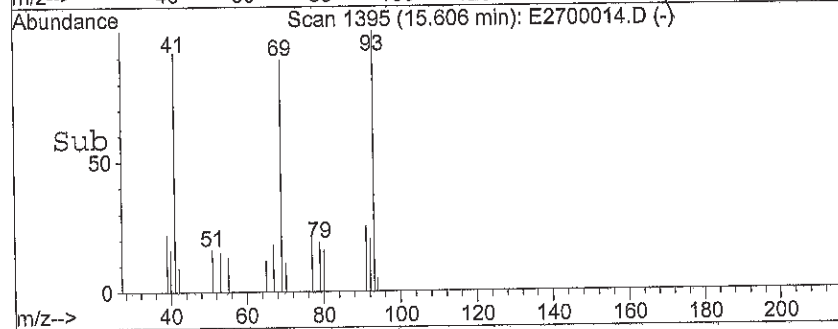
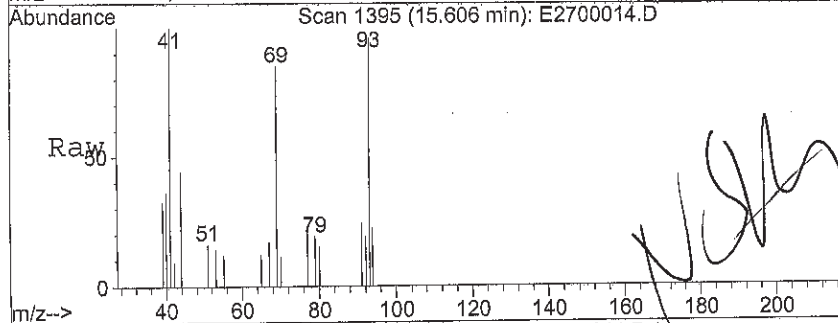
Acq: 27 May 2014 4:04 pm

Tgt Ion: 91 Resp: 2396

Ion Ratio Lower Upper

91 100

126 0.0 24.0 36.0#



#65

4-Chlorotoluene

Concen: 0.16 ug/L

RT: 15.61 min Scan# 1395

Delta R.T. -0.12 min

Lab File: E2700014.D

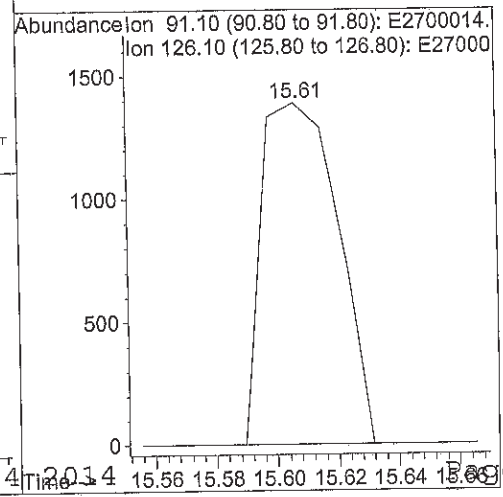
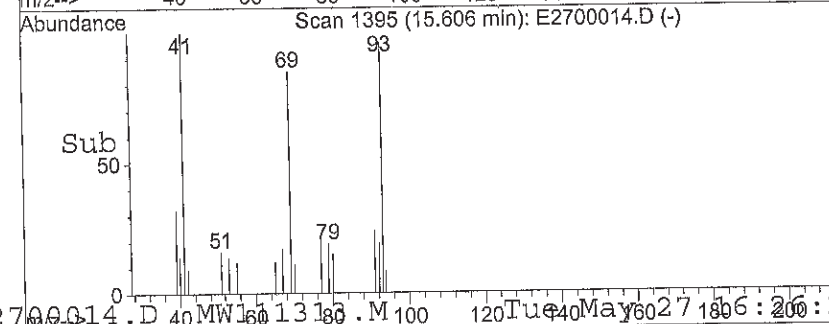
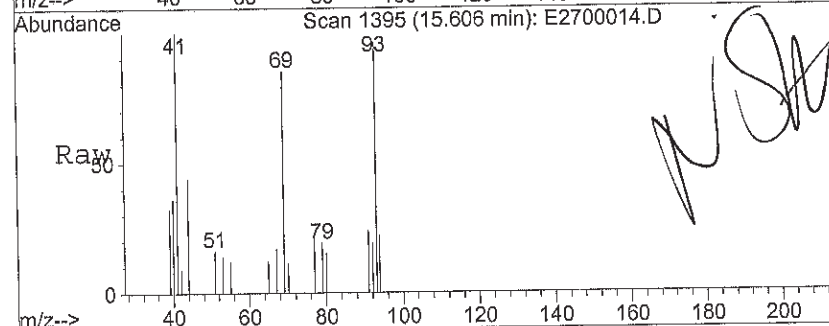
Acq: 27 May 2014 4:04 pm

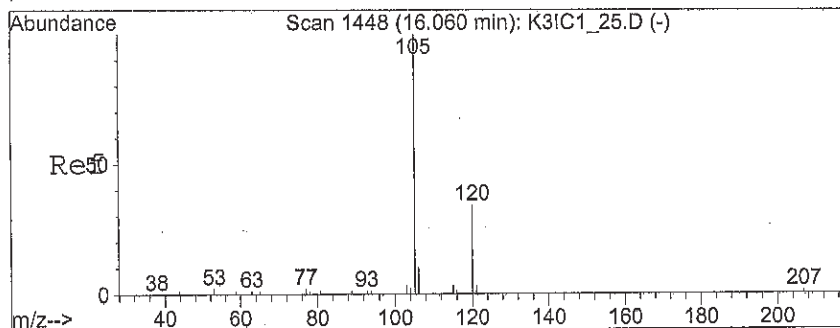
Tgt Ion: 91 Resp: 2396

Ion Ratio Lower Upper

91 100

126 0.0 24.6 36.8#





#67

1,2,4-Trimethylbenzene

Concen: 0.06 ug/L

RT: 16.05 min Scan# 1448

Delta R.T. -0.01 min

Lab File: E2700014.D

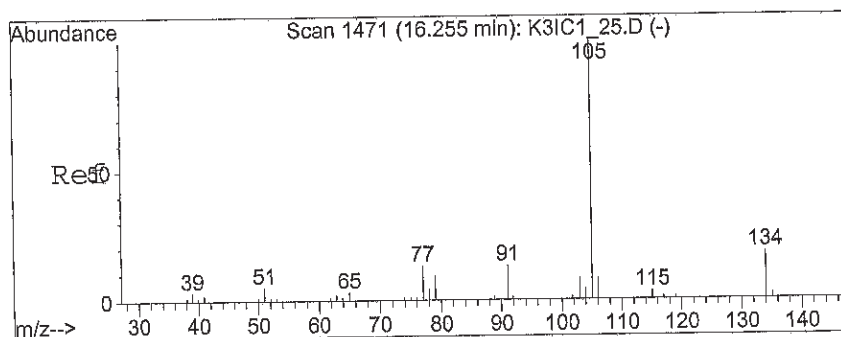
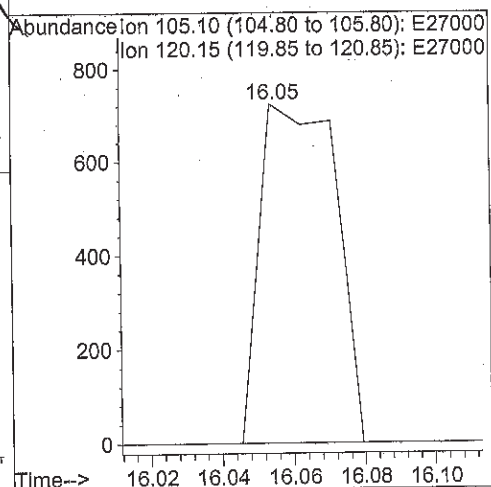
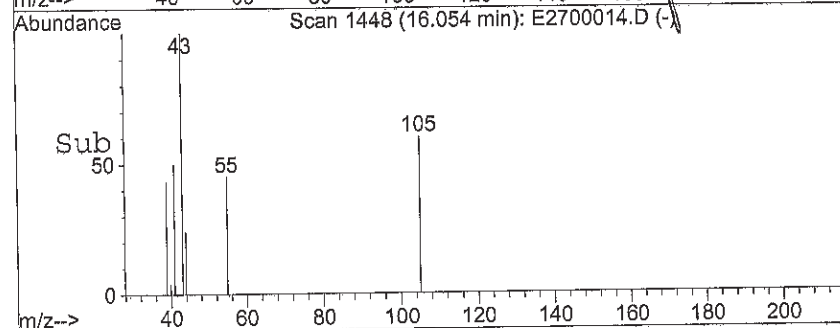
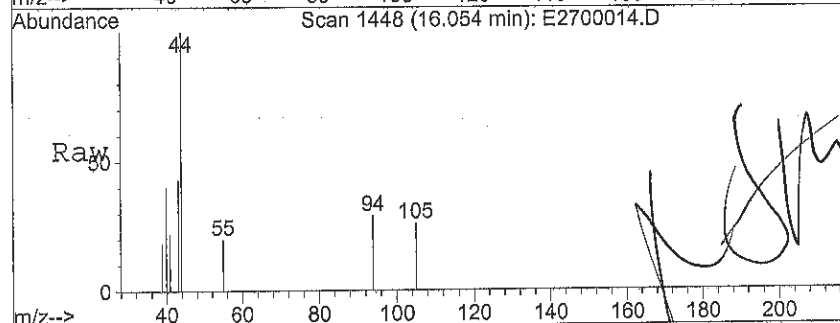
Acq: 27 May 2014 4:04 pm

Tgt Ion:105 Resp: 1059

Ion Ratio Lower Upper

105 100

120 0.0 33.8 50.8#



#68

sec-Butylbenzene

Concen: 1.13 ug/L

RT: 16.33 min Scan# 1481

Delta R.T. 0.08 min

Lab File: E2700014.D

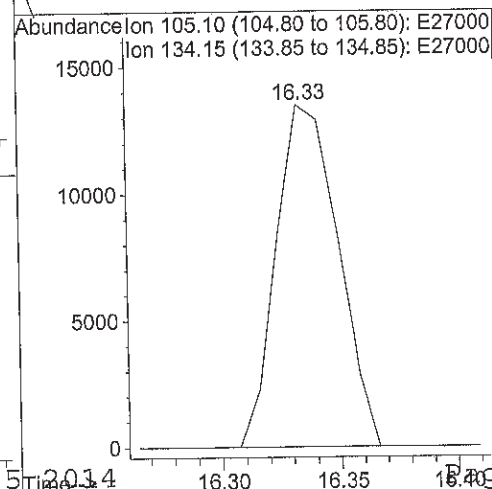
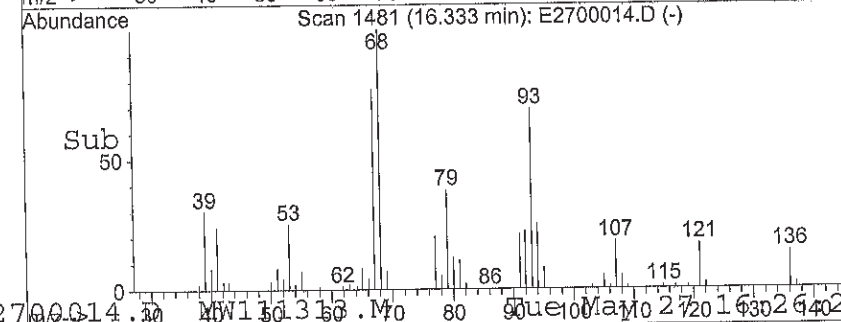
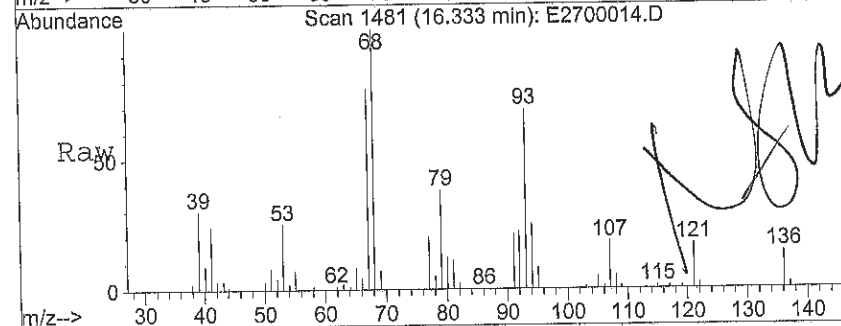
Acq: 27 May 2014 4:04 pm

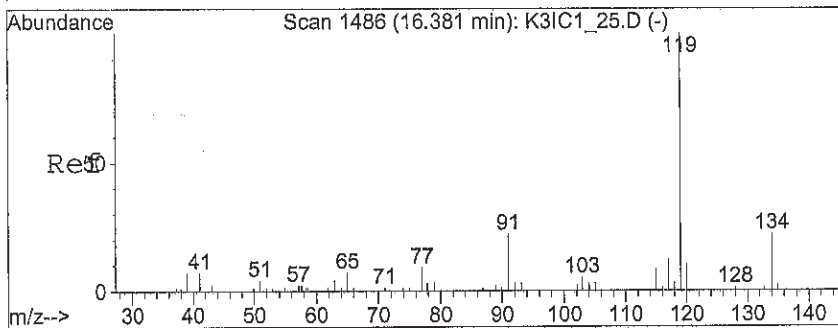
Tgt Ion:105 Resp: 24414

Ion Ratio Lower Upper

105 100

134 0.0 13.0 19.6#





#69

p-Isopropyltoluene

Concen: 0.12 ug/L

RT: 16.38 min Scan# 1487

Delta R.T. 0.00 min

Lab File: E2700014.D

Acq: 27 May 2014 4:04 pm

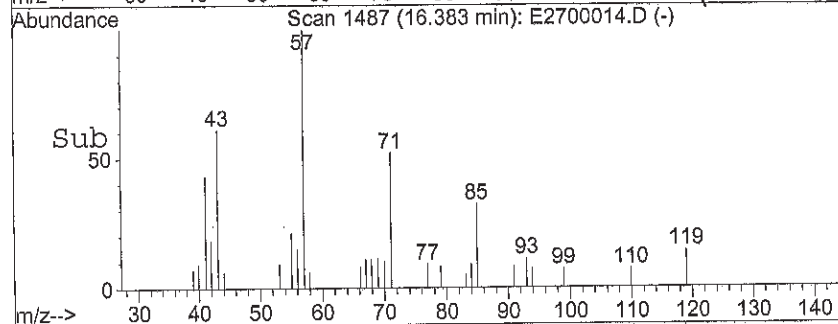
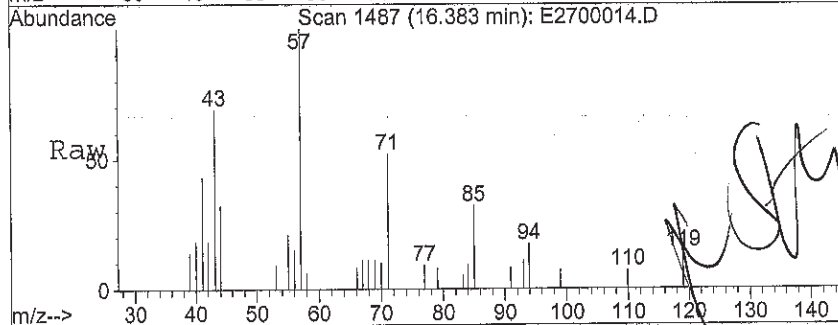
Tgt Ion: 119 Resp: 2197

Ion Ratio Lower Upper

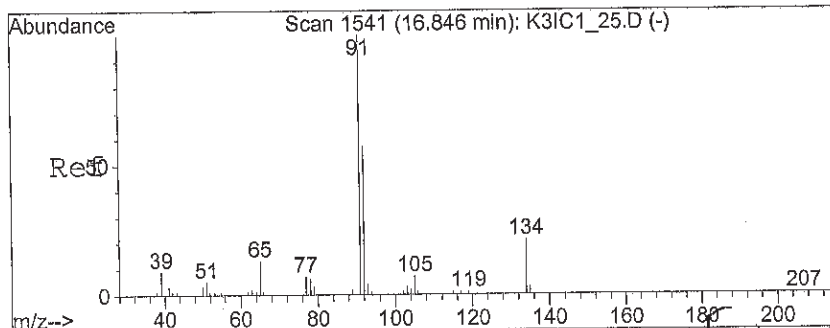
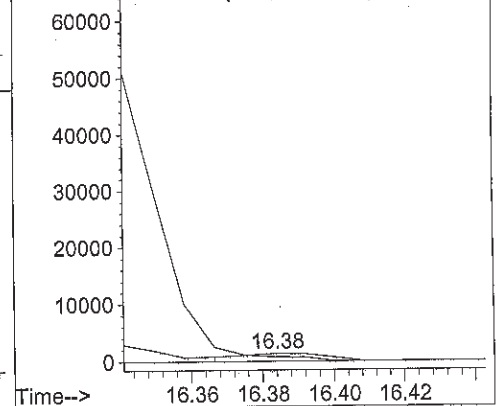
119 100

134 0.0 17.4 26.2#

91 0.0 19.6 29.4#



Abundance Ion 119.15 (118.85 to 119.85): E27000
Ion 134.15 (133.85 to 134.85): E27000
Ion 91.10 (90.80 to 91.80): E2700014.



#72

n-Butylbenzene

Concen: 0.02 ug/L

RT: 16.68 min Scan# 1522

Delta R.T. -0.17 min

Lab File: E2700014.D

Acq: 27 May 2014 4:04 pm

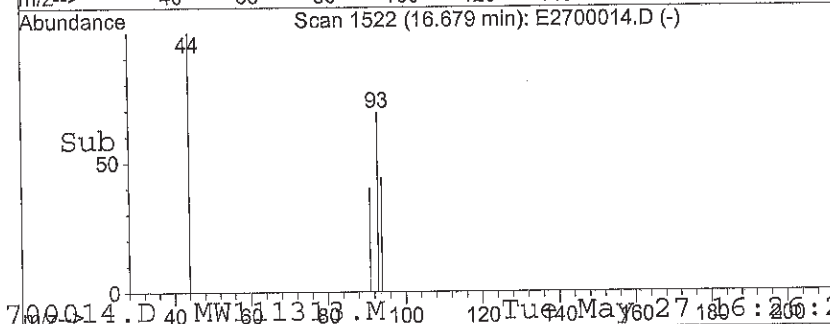
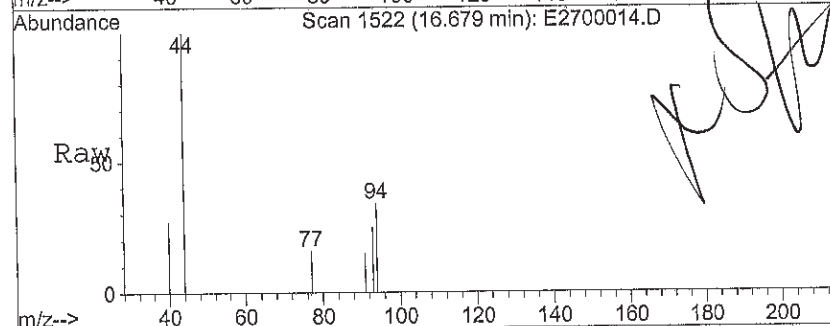
Tgt Ion: 91 Resp: 316

Ion Ratio Lower Upper

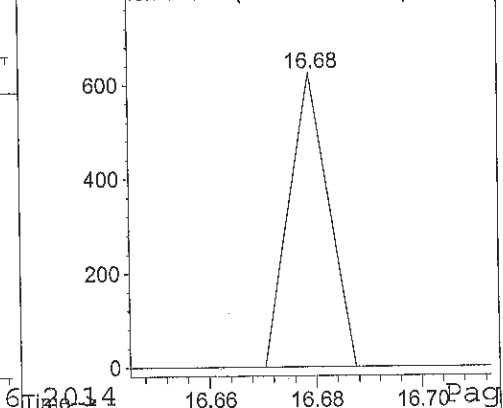
91 100

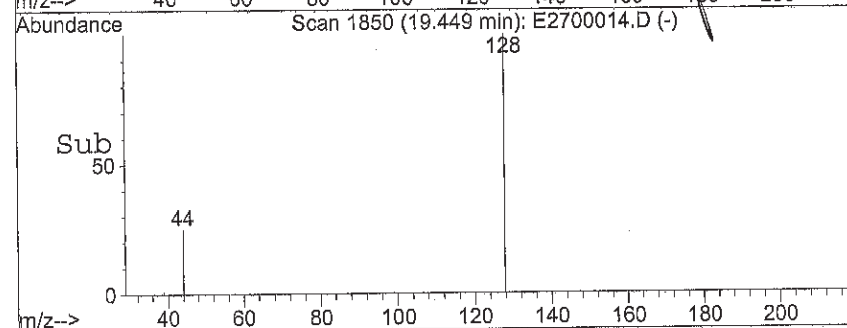
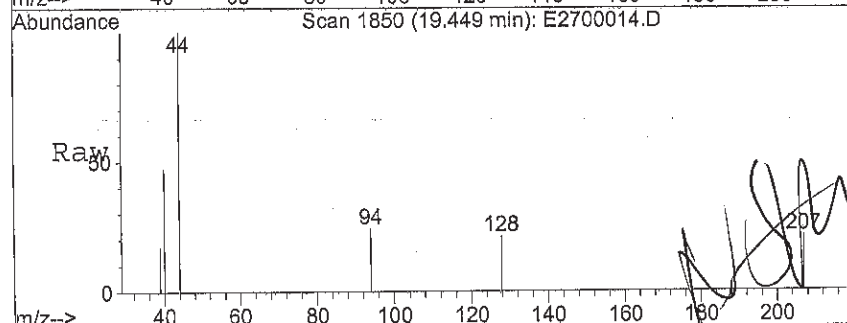
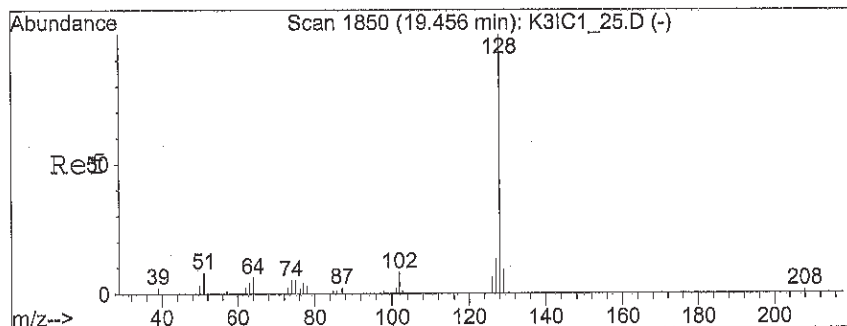
92 0.0 47.0 70.4#

134 0.0 18.1 27.1#



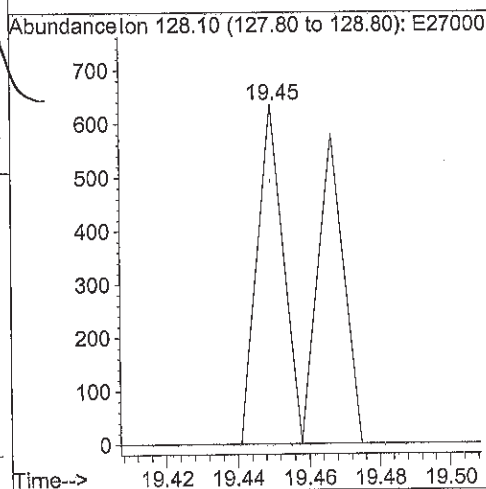
Abundance Ion 91.10 (90.80 to 91.80): E2700014.
Ion 92.10 (91.80 to 92.80): E2700014.
Ion 134.15 (133.85 to 134.85): E27000





#77
Naphthalene
Concen: 0.05 ug/L
RT: 19.45 min Scan# 1850
Delta R.T. -0.01 min
Lab File: E2700014.D
Acq: 27 May 2014 4:04 pm

Tgt Ion:128 Resp: 616



Data File : C:\HPCHEM\1\DATA\052714L3\E2700014.D

Vial: 5

Acq On : 27 May 2014 4:04 pm

Operator: DN

Sample : 3E42701-11

Inst : GC/MS Ins

Misc : 100cc SVL-512-SA5D-SV-16.75-17.75

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 16:25 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1558226	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.92	117	1224504	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	643267	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	436452	10.77	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	86.16%
3) Chloroform-d (SU6)	9.19	84	712297	12.25	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	98.00%
4) Methylene Chloride-d2 (SU5)	7.07	86	399253	11.75	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	94.00%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	437553	15.80	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	126.40%#
6) Benzene-d6 (SU7)	9.93	84	1362590	11.14	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	89.12%
8) Toluene-d8 (SU3)	12.21	98	1377020	11.85	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.80%
9) 4-Bromofluorobenzene (SU4)	15.23	95	680731	14.19	ug/L	-0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	113.52%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700014.D SS072713.M

Tue May 27 16:25:49 2014

Page 1

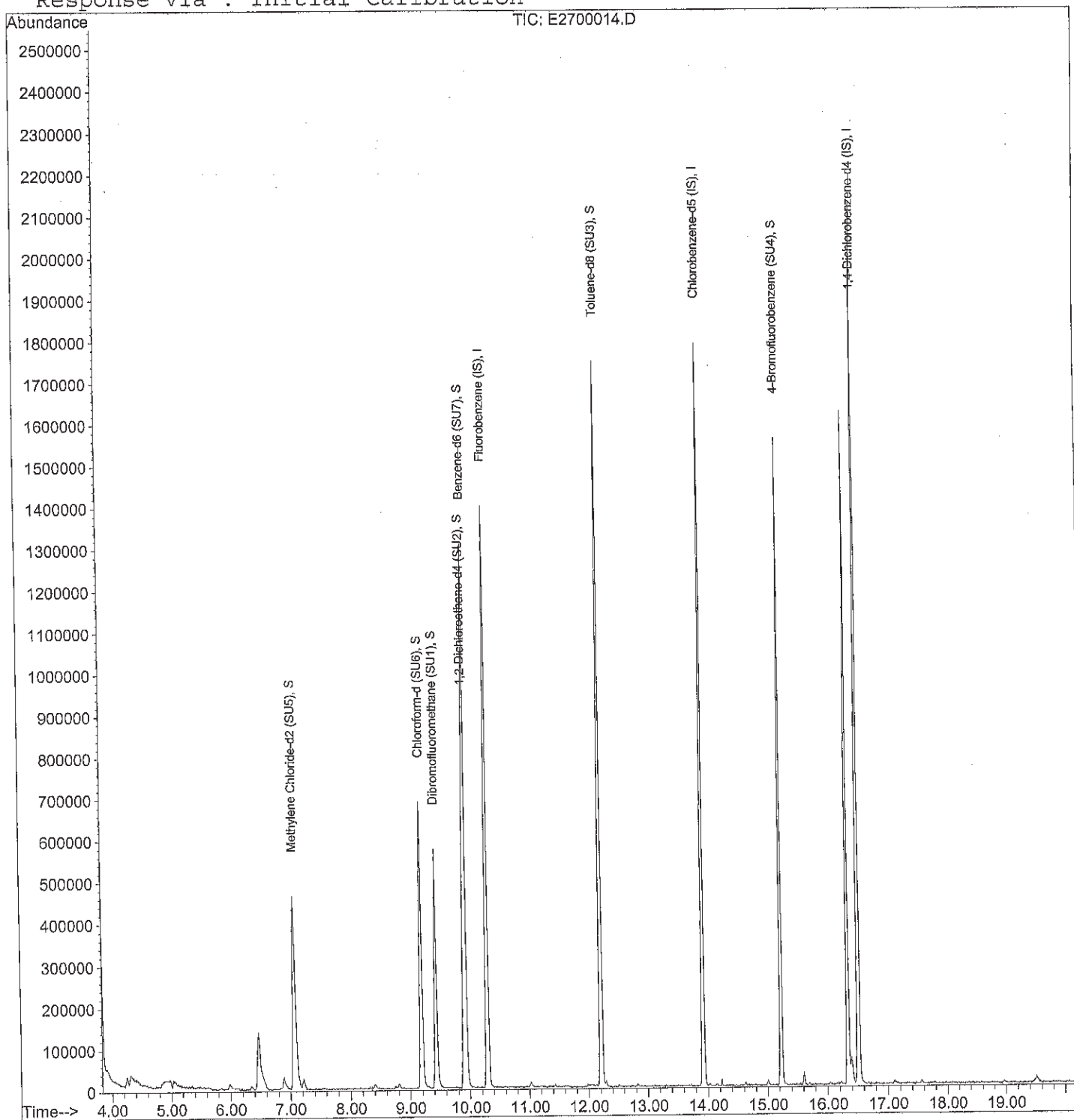
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700014.D
 Acq On : 27 May 2014 4:04 pm
 Sample : 3E42701-11
 Misc : 100cc SVL-512-SA5D-SV-16.75-17.75
 MS Integration Params: rteint.p
 Quant Time: May 27 16:25 19114

Vial: 5
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E2700015.D

Acq On : 27 May 2014 5:01 pm

Sample : 3E42701-12

Misc : 100cc FB-052714

MS Integration Params: rteint.p

Quant Time: May 27 17:22 19114

Vial: 6

Operator: DN

Inst : GC/MS Ins

Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1656895	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1256682	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	652135	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	464949	11.25	ug/L	0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	90.00%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	447485	11.39	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	91.12%
39) Toluene-d8 (SU3)	12.20	98	1465222	12.50	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	100.00%
58) 4-Bromofluorobenzene (SU4)	15.22	95	663833	12.92	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	103.36%

Target Compounds

					Qvalue
4) Chloromethane	4.42	50	1389	-0.72 ug/L #	41
6) Bromomethane	5.14	96	2221	-0.56 ug/L #	1
7) Chloroethane	5.24	64	2585	2.56 ug/L #	51
11) Acetone	6.46	58	6283	4.82 ug/L #	59
12) (IPA) Leak Check Compound	6.49	45	23780	119.44 ug/L #	99
14) Methylene Chloride	7.07	84	6481	1.42 ug/L #	1
15) (TBA) tert-Butanol	6.92	59	352	1.25 ug/L #	77
21) (MEK) 2-Butanone	8.79	72	259	0.56 ug/L #	1
24) Chloroform	9.21	83	2146	0.25 ug/L #	11
31) Benzene	9.93	78	10024	0.64 ug/L #	76
32) 1,2-Dichloroethane	9.92	62	5695	1.03 ug/L #	1
36) Bromodichloromethane	11.33	83	271	0.05 ug/L #	21
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	7322	2.92 ug/L #	100
41) Toluene	12.29	91	1384	0.08 ug/L #	91
46) 2-Hexanone	12.96	43	1130	0.41 ug/L #	37
51) Ethylbenzene	14.02	91	535	0.03 ug/L #	45
54) Styrene	14.63	104	1140	-0.76 ug/L #	81
56) Isopropylbenzene	15.10	105	1441	0.08 ug/L #	55
62) n-Propylbenzene	15.53	91	98841	3.75 ug/L #	57
63) 2-Chlorotoluene	15.53	91	98841	6.09 ug/L #	45
64) 1,3,5-Trimethylbenzene	15.52	105	25396	1.56 ug/L #	34
65) 4-Chlorotoluene	15.53	91	98841	6.59 ug/L #	44

(#)= qualifier out of range (m) = manual integration

E2700015.D MW111313.M

Tue May 27 17:22:36 2014

Data File : C:\HPCHEM\1\DATA\052714L3\E2700015.D

Vial: 6

Acq On : 27 May 2014 5:01 pm

Operator: DN

Sample : 3E42701-12

Inst : GC/MS Ins

Misc : 100cc FB-052714

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 17:22 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
66) tert-Butylbenzene	16.21	119	287	0.02	ug/L #	24
67) 1,2,4-Trimethylbenzene	16.06	105	750	0.04	ug/L #	33
68) sec-Butylbenzene	16.33	105	7681	0.35	ug/L #	62
69) p-Isopropyltoluene	16.38	119	2194	0.12	ug/L #	52
77) Naphthalene	19.44	128	320	0.02	ug/L	100

(#) = qualifier out of range (m) = manual integration

E2700015.D MW111313.M

Tue May 27 17:22:37 2014

Page 2

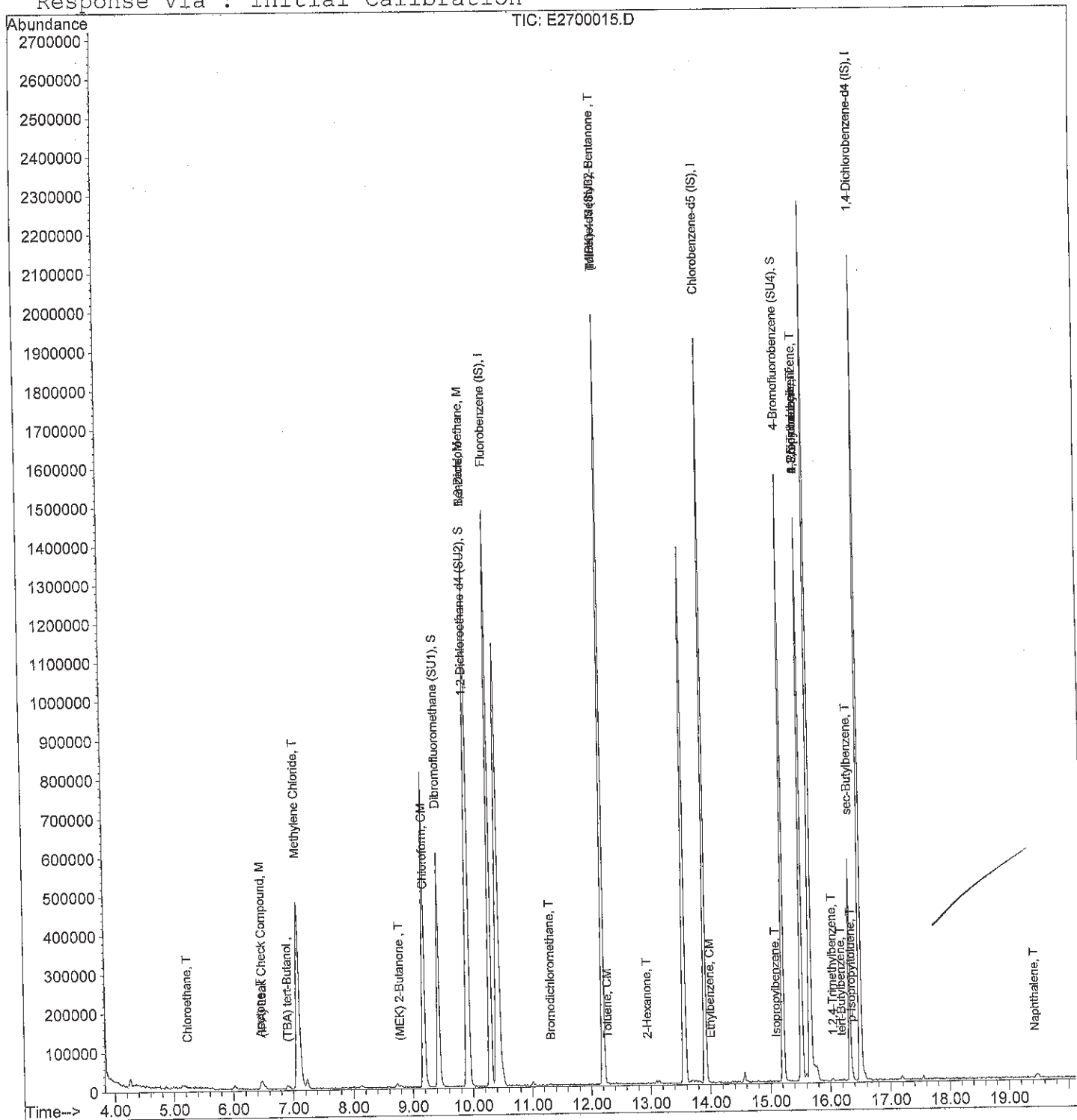
Quantitation Report

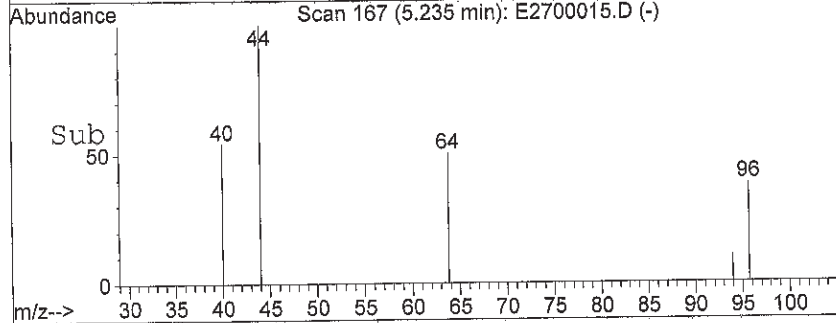
Data File : C:\HPCHEM\1\DATA\052714L3\E2700015.D
 Acq On : 27 May 2014 5:01 pm
 Sample : 3E42701-12
 Misc : 100cc FB-052714
 MS Integration Params: rteint.p
 Quant Time: May 27 17:22 19114

Vial: 6
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

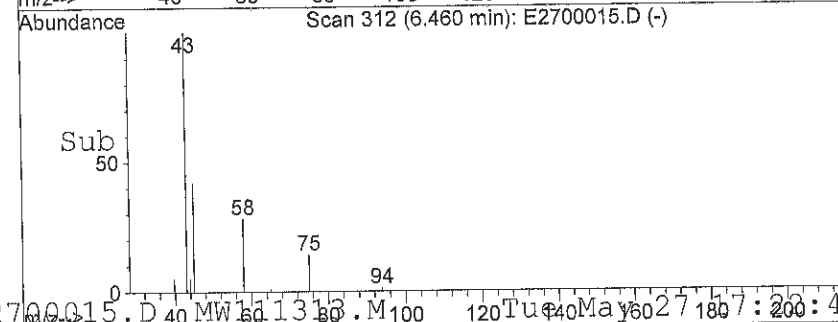
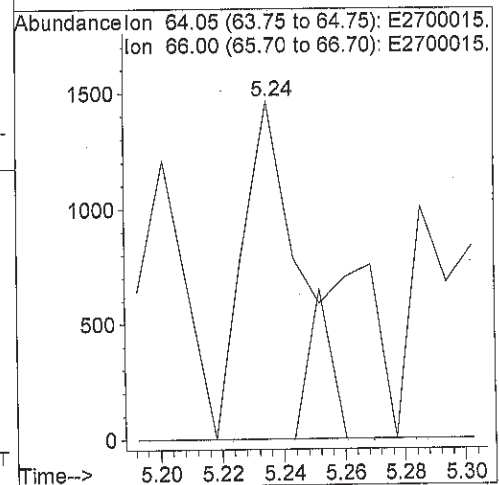
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration





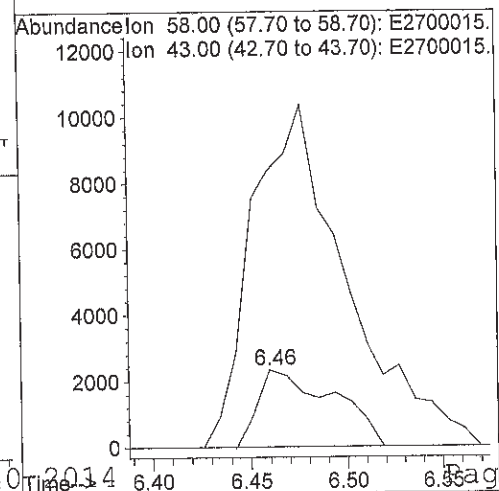
```
#7
Chloroethane
Concen: 2.56 ug/L
RT: 5.24 min   Scan# 167
Delta R.T.    -0.00 min
Lab File:     E2700015.D
Acq: 27 May 2014   5:01 pm
```

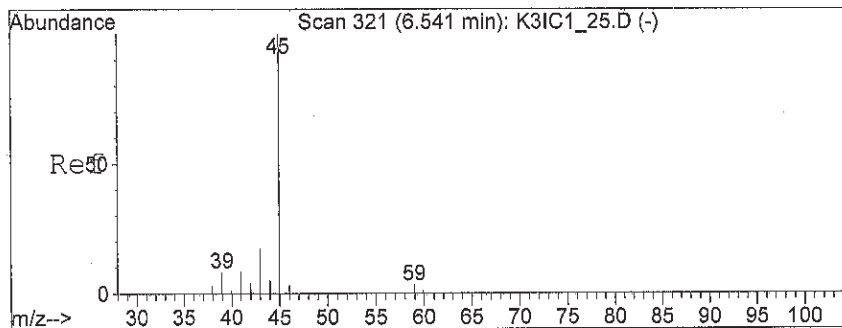
Tgt	Ion: 64	Resp:	2585
Ion	Ratio	Lower	Upper
64	100		
66	12.7	35.4	53.0#



```
#11
Acetone
Concen: 4.82 ug/L
RT: 6.46 min Scan# 312
Delta R.T. 0.00 min
Lab File: E2700015.D
Acq: 27 May 2014 5:01 pm
```

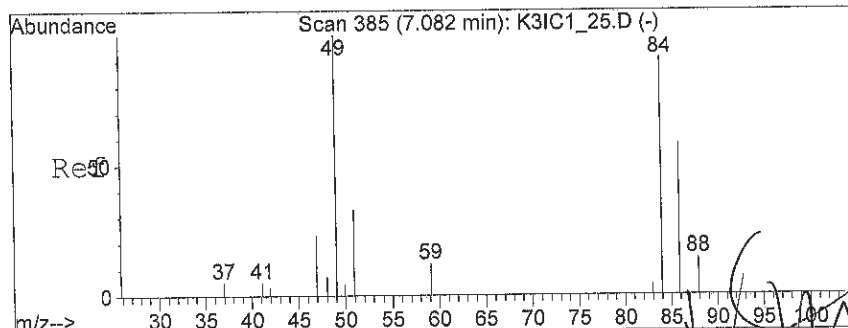
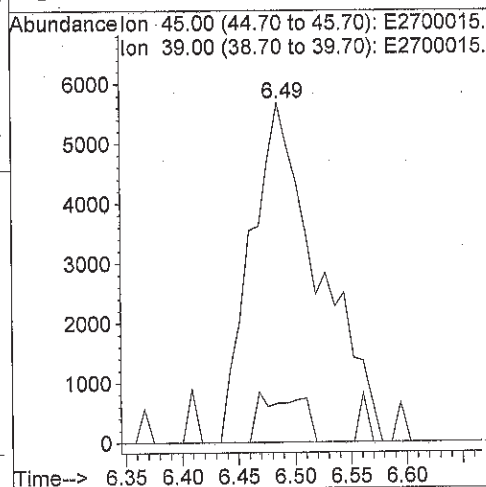
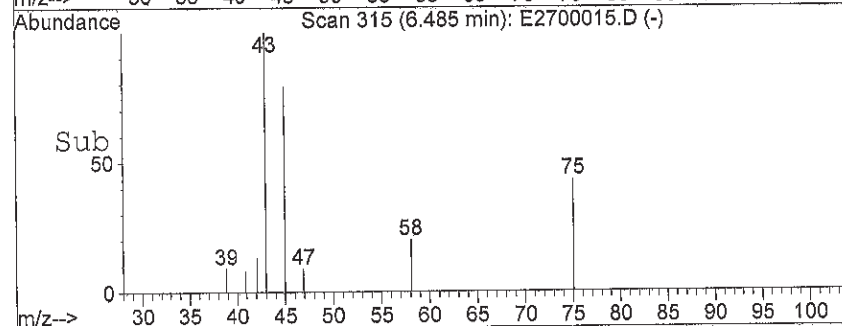
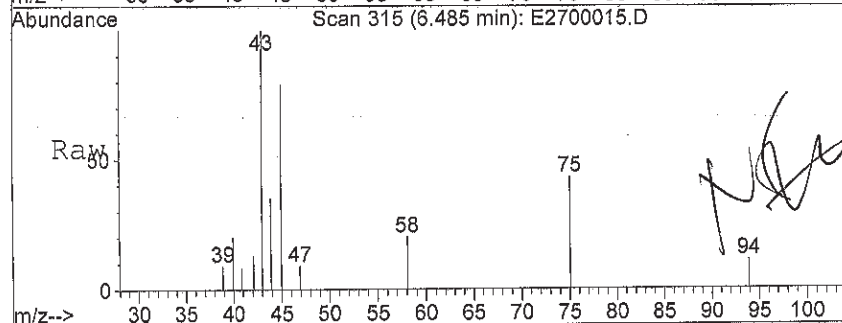
Tgt	Ion: 58	Resp:	6283
Ion	Ratio	Lower	Upper
58	100		
43	557.7	360.9	541.3#





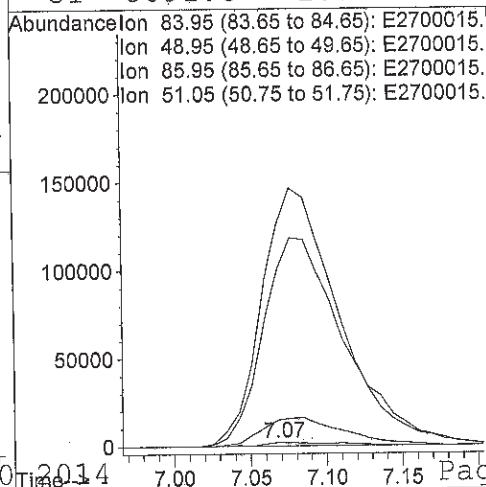
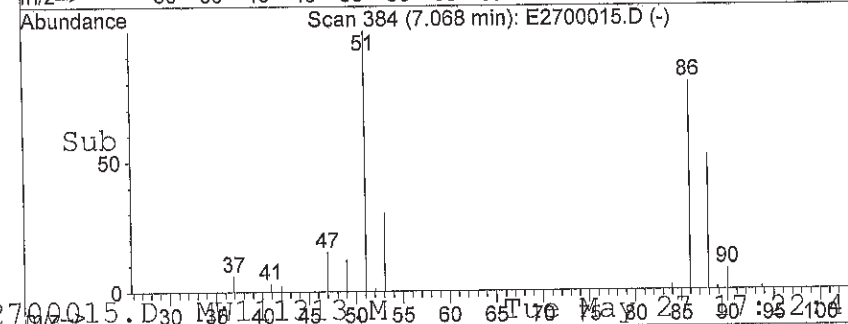
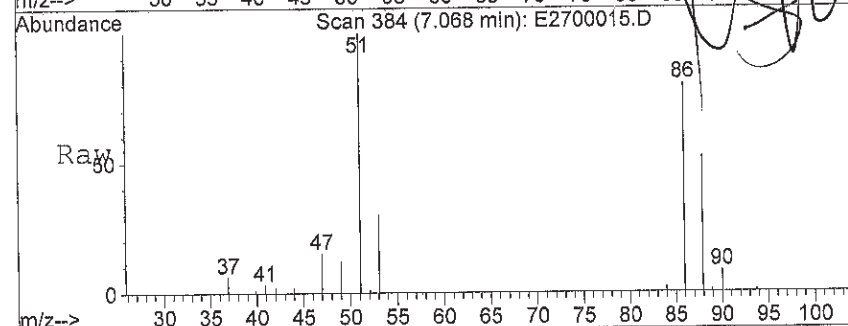
#12
 (IPA) Leak Check Compound
 Concen: 119.44 ug/L
 RT: 6.49 min Scan# 315
 Delta R.T. -0.06 min
 Lab File: E2700015.D
 Acq: 27 May 2014 5:01 pm

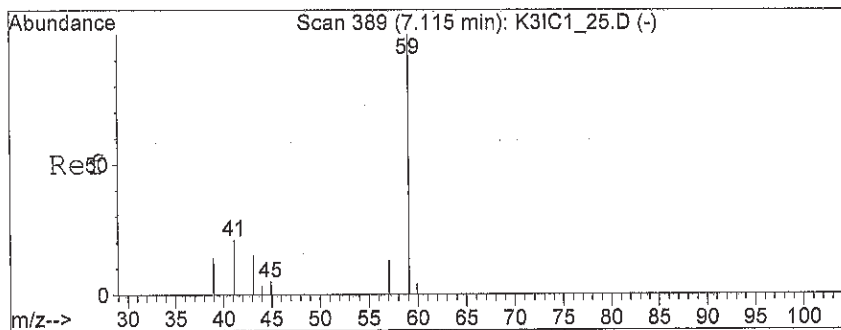
Tgt Ion: 45 Resp: 23780
 Ion Ratio Lower Upper
 45 100
 39 5.8 4.9 7.3



#14
 Methylene Chloride
 Concen: 1.42 ug/L
 RT: 7.07 min Scan# 384
 Delta R.T. -0.01 min
 Lab File: E2700015.D
 Acq: 27 May 2014 5:01 pm

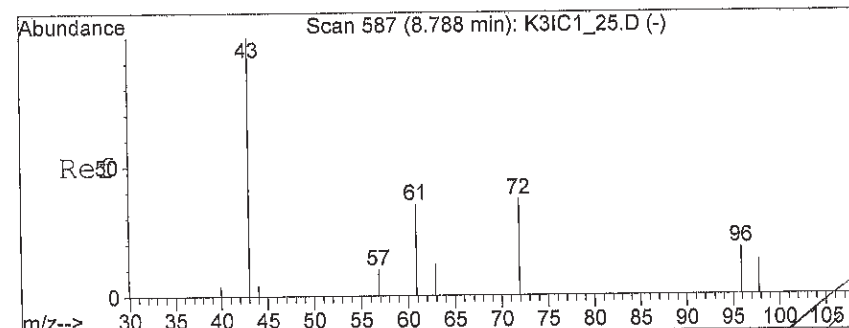
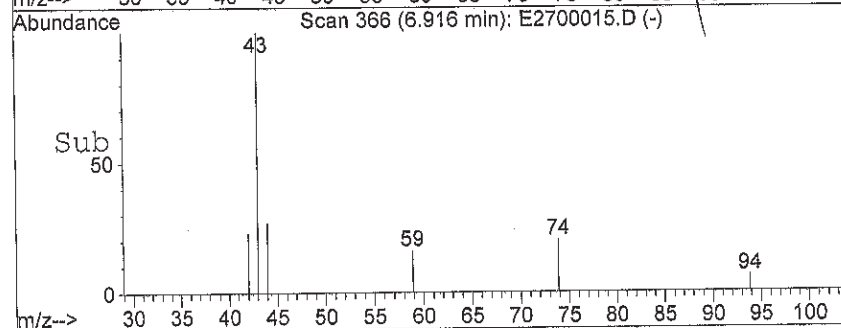
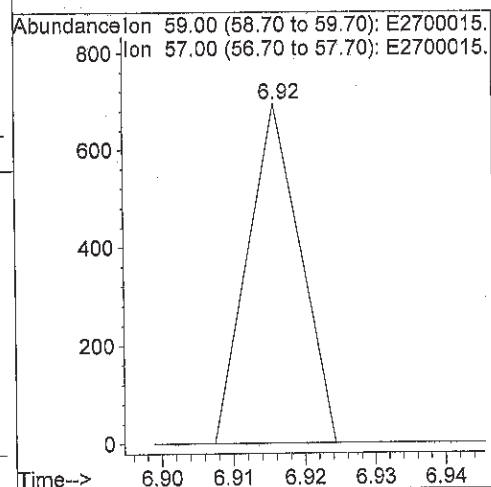
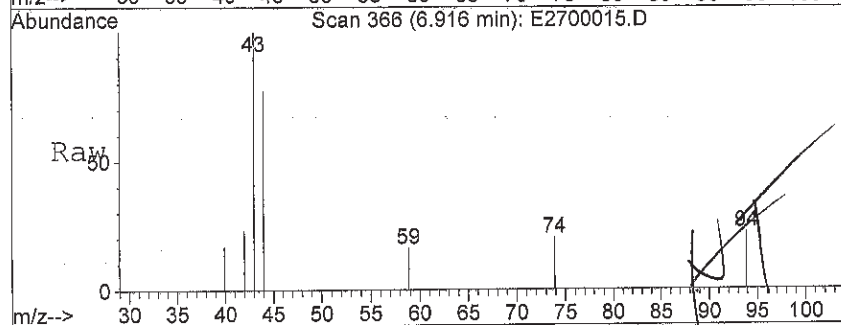
Tgt Ion: 84 Resp: 6481
 Ion Ratio Lower Upper
 84 100
 49 912.9 89.8 134.6#
 86 6745.1 51.1 76.7#
 51 8091.5 28.5 42.7#





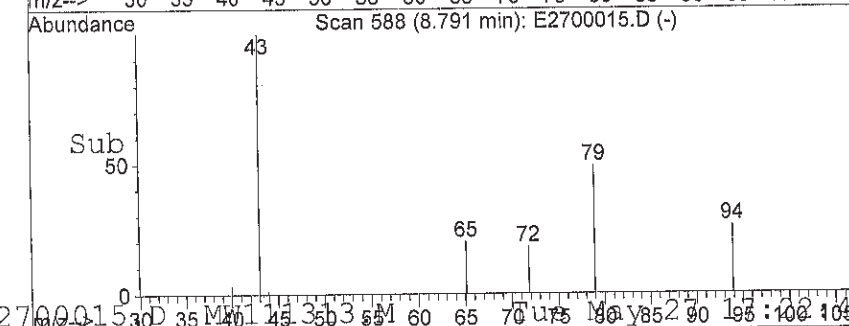
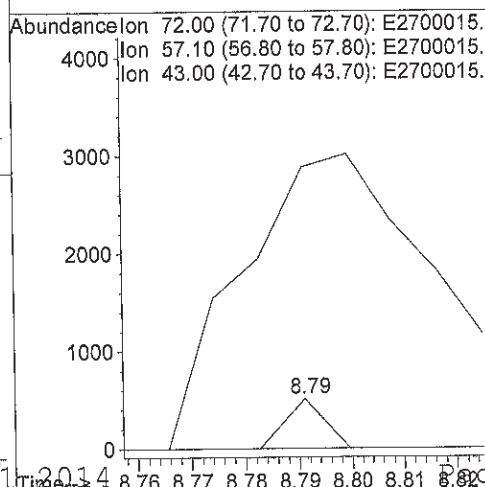
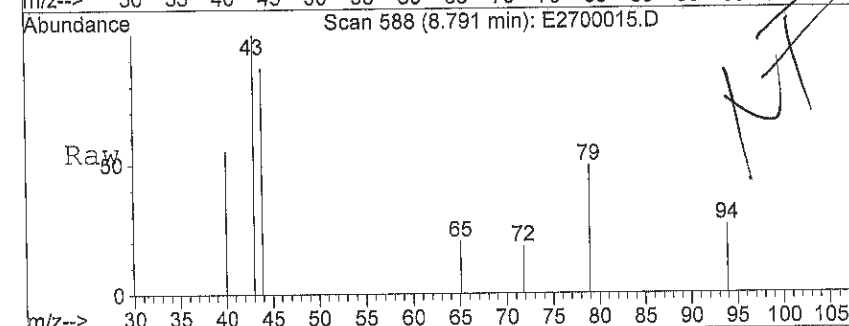
#15
 (TBA) tert-Butanol
 Concen: 1.25 ug/L
 RT: 6.92 min Scan# 366
 Delta R.T. -0.20 min
 Lab File: E2700015.D
 Acq: 27 May 2014 5:01 pm

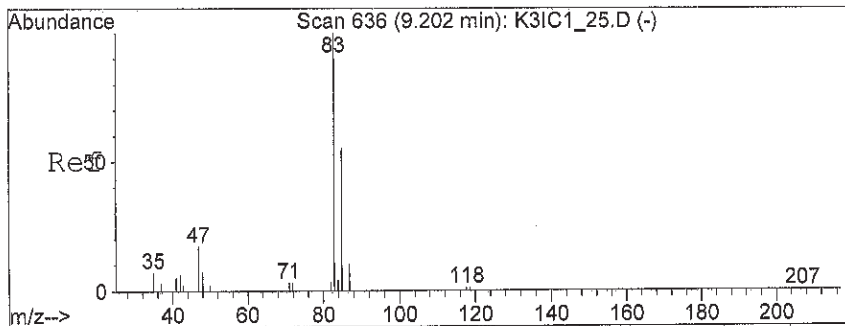
Tgt Ion: 59 Resp: 352
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#21
 (MEK) 2-Butanone
 Concen: 0.56 ug/L
 RT: 8.79 min Scan# 588
 Delta R.T. 0.00 min
 Lab File: E2700015.D
 Acq: 27 May 2014 5:01 pm

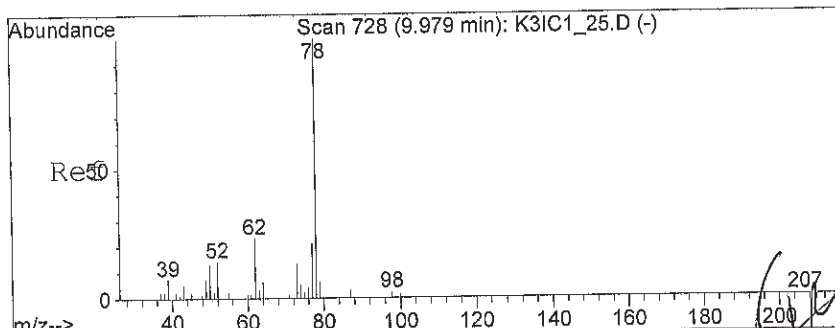
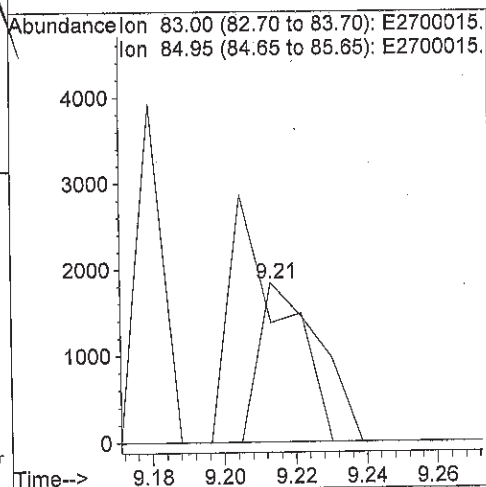
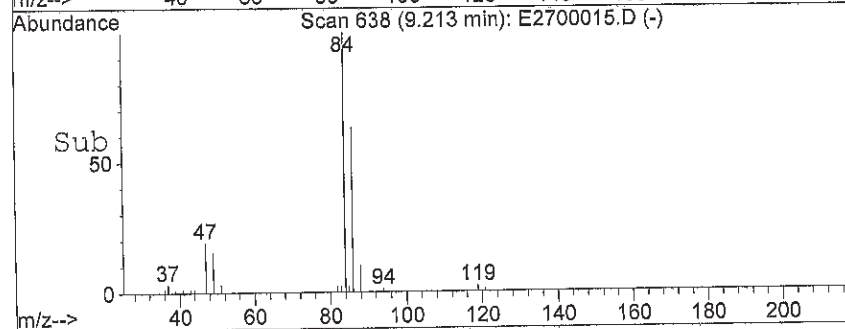
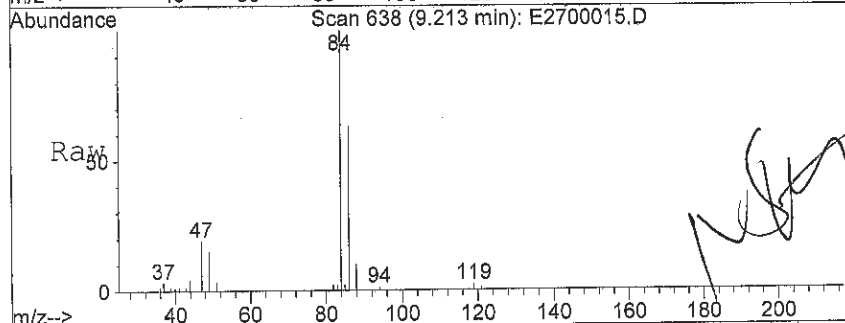
Tgt Ion: 72 Resp: 259
 Ion Ratio Lower Upper
 72 100
 57 0.0 17.5 26.3#
 43 2876.8 314.2 471.2#





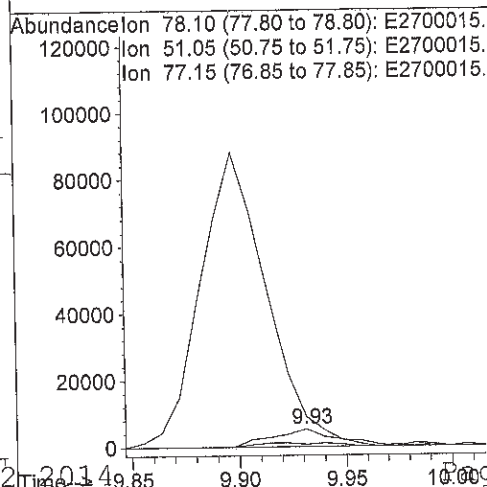
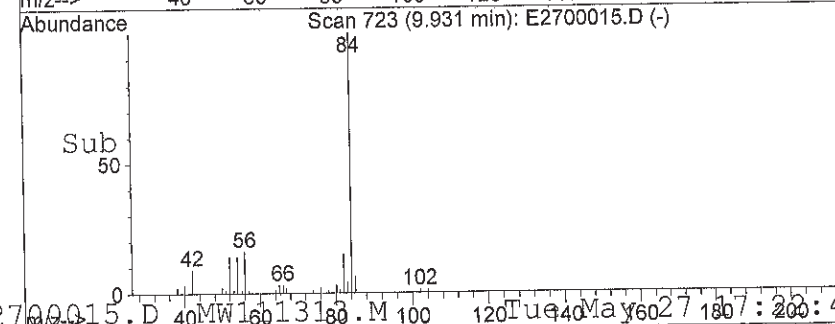
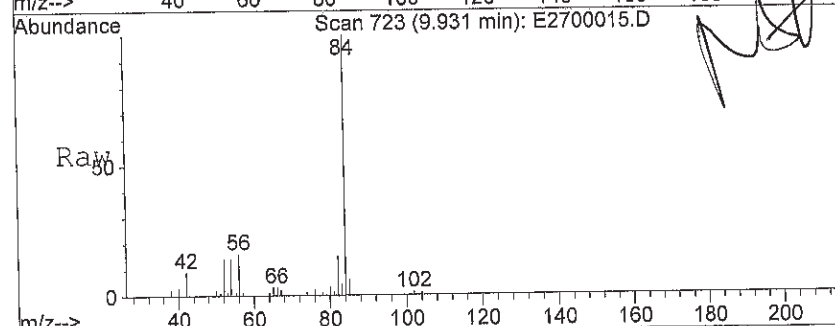
#24
Chloroform
Concen: 0.25 ug/L
RT: 9.21 min Scan# 638
Delta R.T. 0.01 min
Lab File: E2700015.D
Acq: 27 May 2014 5:01 pm

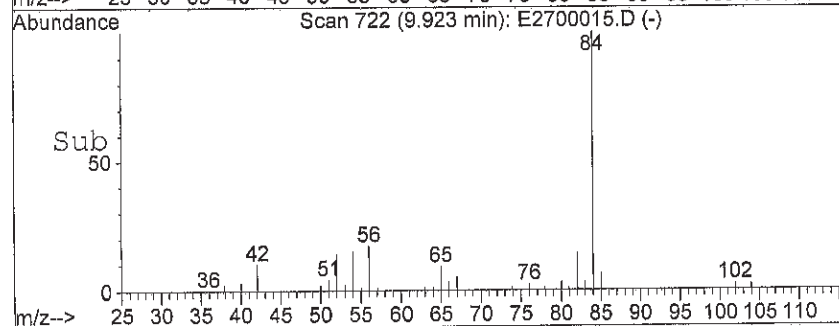
Tgt Ion: 83 Resp: 2146
Ion Ratio Lower Upper
83 100
85 134.9 51.8 77.6#



#31
Benzene
Concen: 0.64 ug/L
RT: 9.93 min Scan# 723
Delta R.T. -0.05 min
Lab File: E2700015.D
Acq: 27 May 2014 5:01 pm

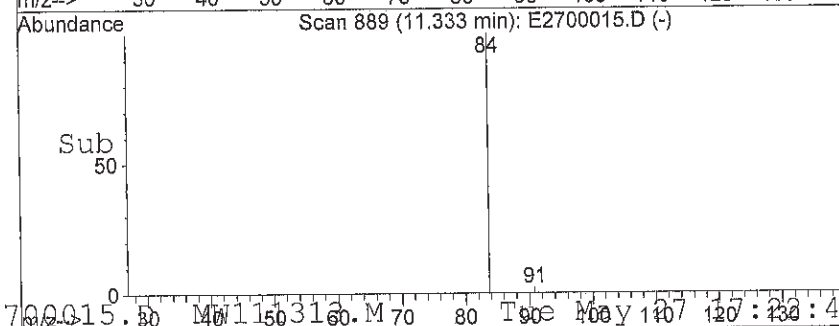
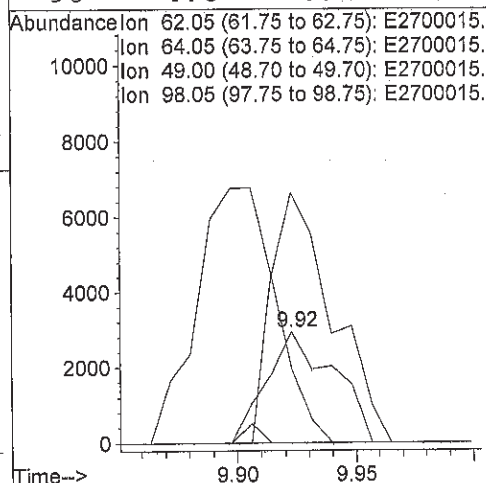
Tgt Ion: 78 Resp: 10024
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 25.6 16.6 24.8#





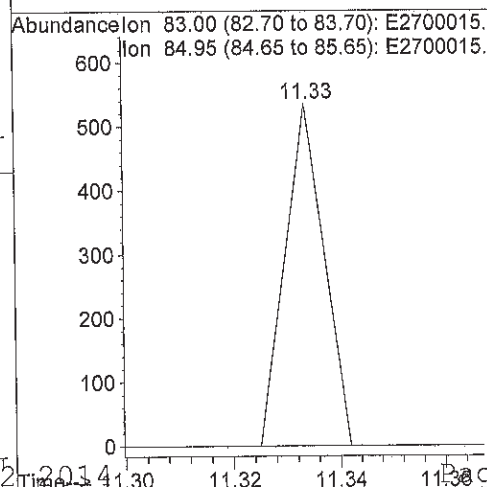
```
#32
1,2-Dichloroethane
Concen: 1.03 ug/L
RT: 9.92 min   Scan# 722
Delta R.T.    -0.06 min
Lab File:     E2700015.D
Acq: 27 May 2014   5:01 pm
```

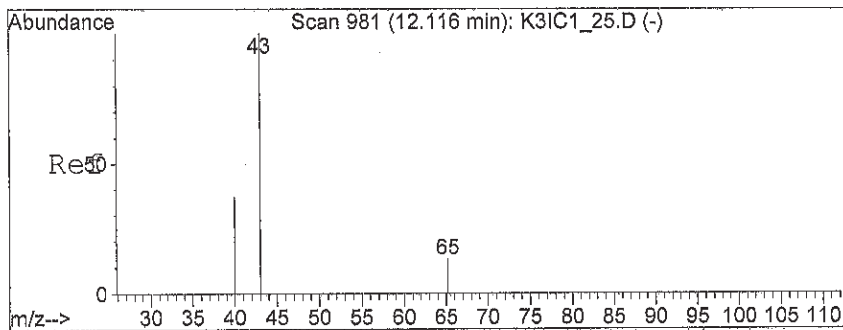
Tgt	Ion: 62	Resp:	5695
Ion	Ratio	Lower	Upper
62	100		
64	209.1	28.0	42.0#
49	271.5	28.5	42.7#
98	4.5	6.2	9.4#



#36
Bromodichloromethane
Concen: 0.05 ug/L
RT: 11.33 min Scan# 889
Delta R.T. -0.01 min
Lab File: E2700015.D
Acq: 27 May 2014 5:01 pm

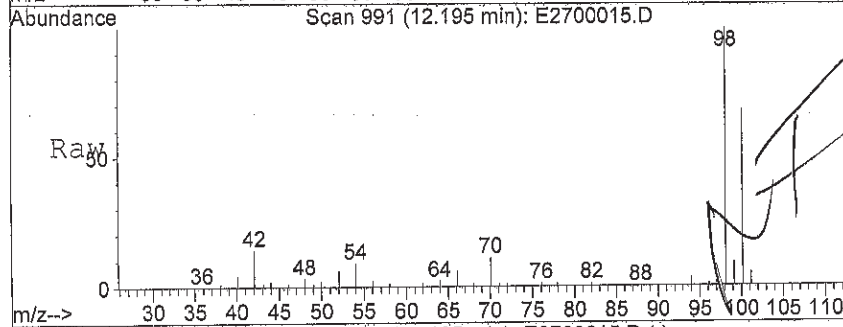
Tgt	Ion: 83	Resp:	271
Ion	Ratio	Lower	Upper
83	100		
85	0.0	48.2	72.2#





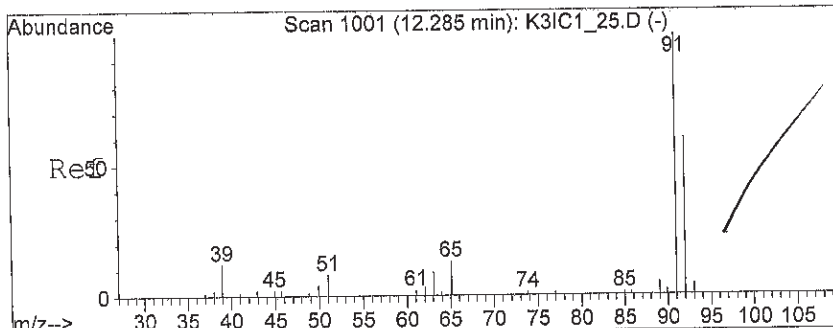
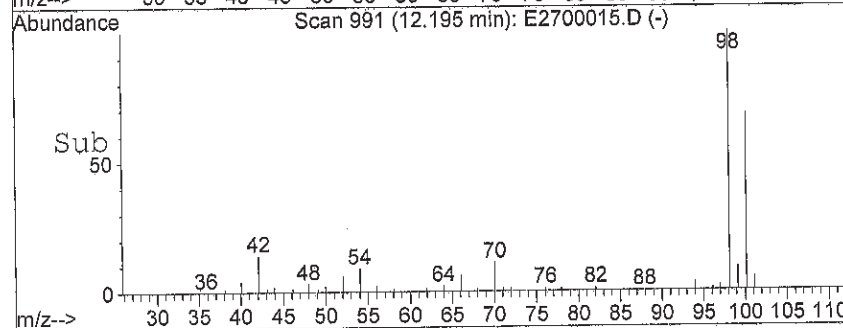
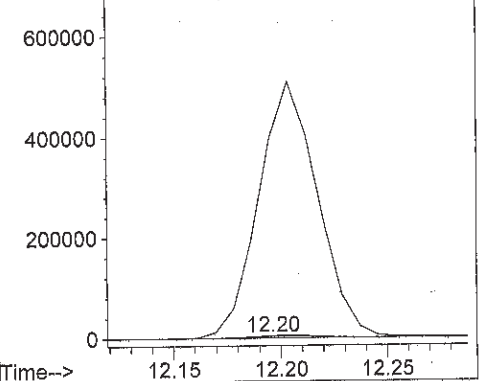
#40
(MIBK) 4-Methyl-2-Pentanone
Concen: 2.92 ug/L
RT: 12.20 min Scan# 991
Delta R.T. 0.08 min
Lab File: E2700015.D
Acq: 27 May 2014 5:01 pm

Tgt Ion:	43	Resp:	7322
Ion	Ratio	Lower	Upper
43	100		
58	142.2	0.0	0.0#
85	0.0	0.0	0.0
100	13374.6	0.0	0.0#



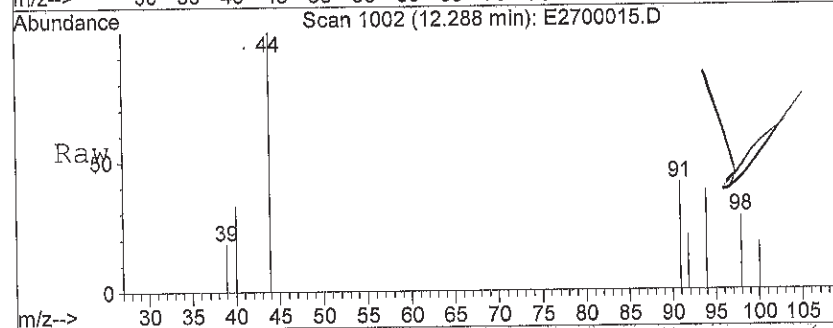
Abundance

Ion 43.00 (42.70 to 43.70): E2700015.
Ion 58.10 (57.80 to 58.80): E2700015.
Ion 85.05 (84.75 to 85.75): E2700015.
Ion 100.15 (99.85 to 100.85): E2700015.



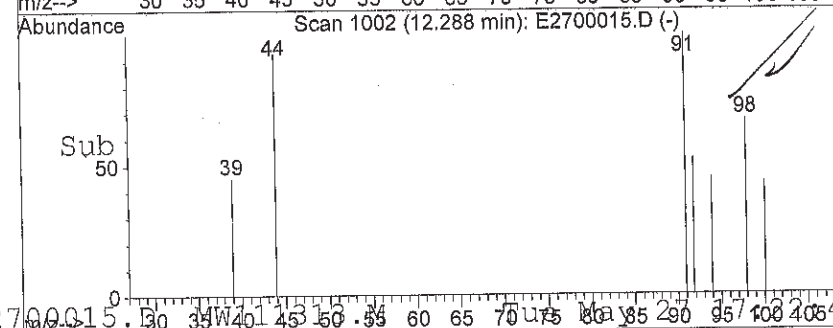
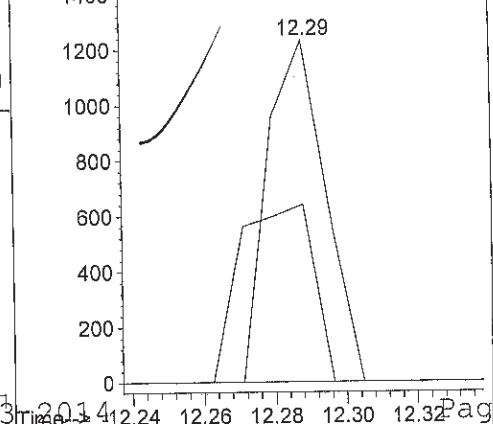
#41
Toluene
Concen: 0.08 ug/L
RT: 12.29 min Scan# 1002
Delta R.T. 0.00 min
Lab File: E2700015.D
Acq: 27 May 2014 5:01 pm

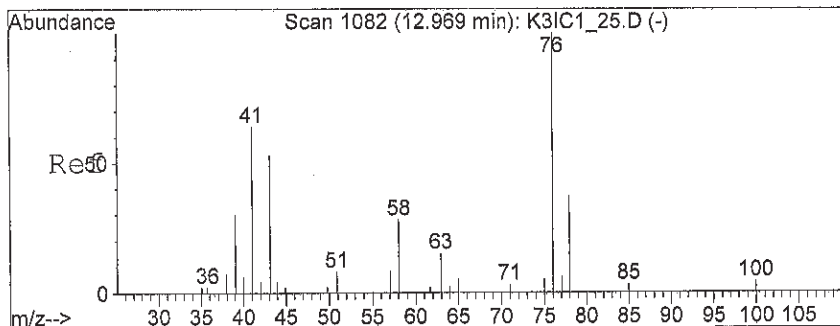
Tgt Ion:	91	Resp:	1384
Ion	Ratio	Lower	Upper
91	100		
92	65.8	47.4	71.0



Abundance

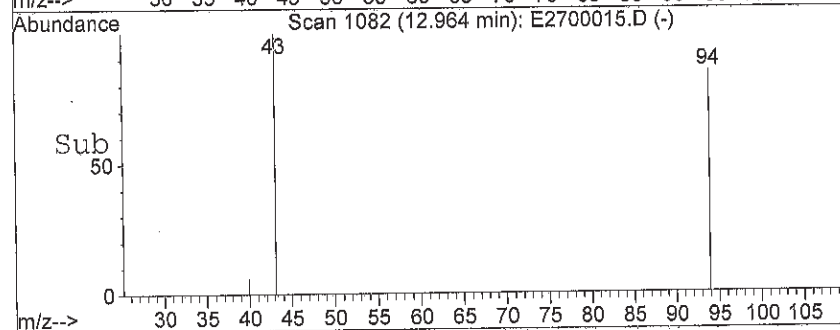
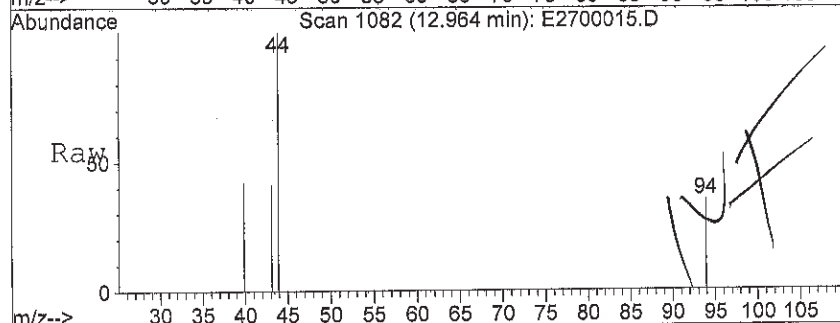
Ion 91.10 (90.80 to 91.80): E2700015.
Ion 92.10 (91.80 to 92.80): E2700015.



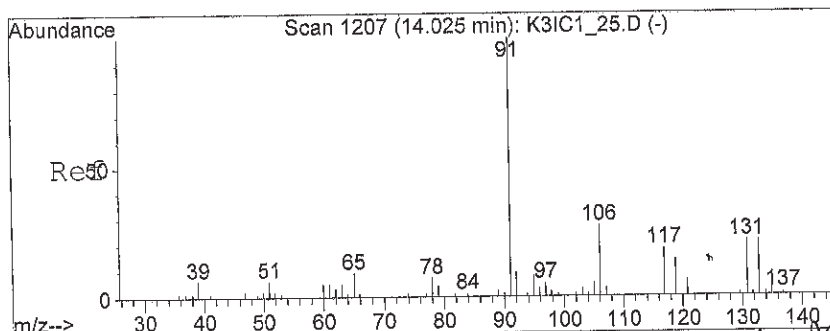
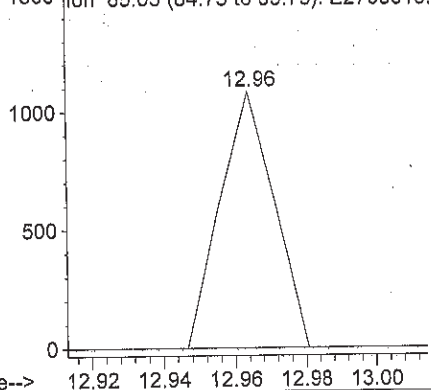


#46
2-Hexanone
Concen: 0.41 ug/L
RT: 12.96 min Scan# 1082
Delta R.T. -0.01 min
Lab File: E2700015.D
Acq: 27 May 2014 5:01 pm

Tgt Ion: 43 Resp: 1130
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#

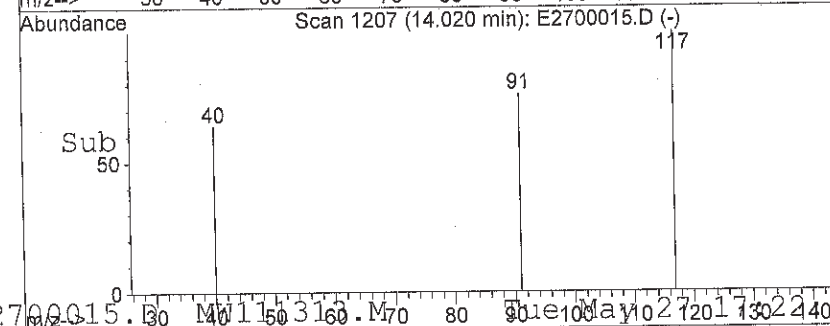
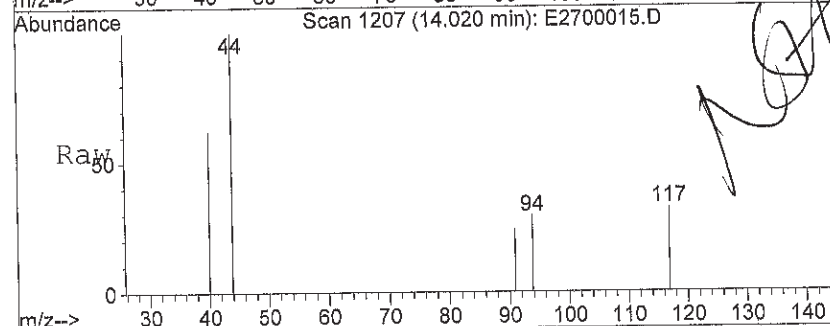


Abundance Ion 43.00 (42.70 to 43.70): E2700015.
Ion 58.10 (57.80 to 58.80): E2700015.
Ion 100.15 (99.85 to 100.85): E2700015.
Ion 85.05 (84.75 to 85.75): E2700015.

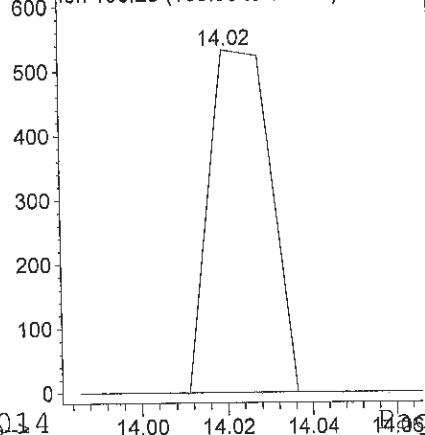


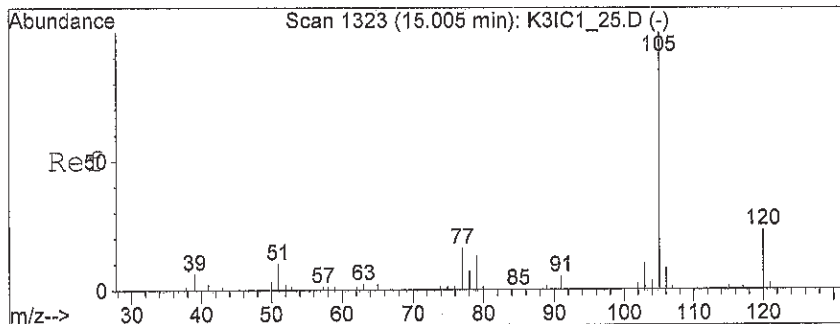
#51
Ethylbenzene
Concen: 0.03 ug/L
RT: 14.02 min Scan# 1207
Delta R.T. -0.01 min
Lab File: E2700015.D
Acq: 27 May 2014 5:01 pm

Tgt Ion: 91 Resp: 535
Ion Ratio Lower Upper
91 100
106 0.0 23.5 35.3#



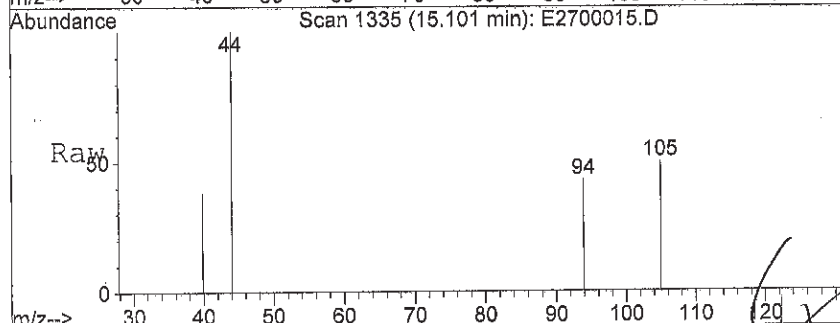
Abundance Ion 91.10 (90.80 to 91.80): E2700015.
Ion 106.20 (105.90 to 106.90): E2700015.





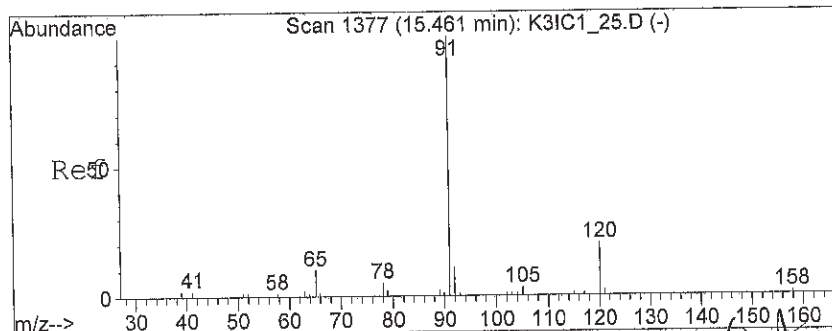
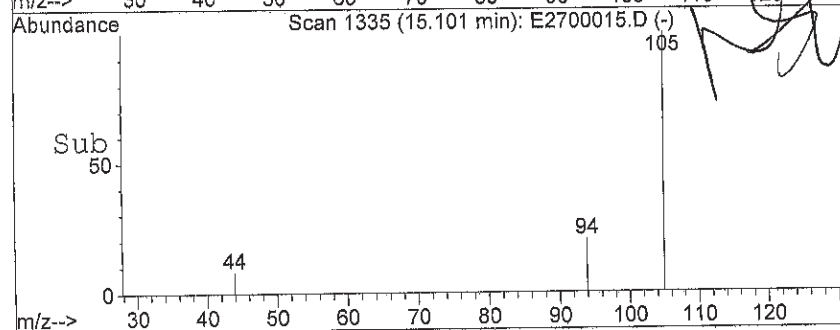
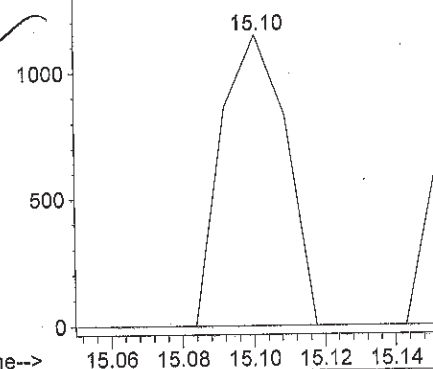
#56
Isopropylbenzene
Concen: 0.08 ug/L
RT: 15.10 min Scan# 1335
Delta R.T. 0.10 min
Lab File: E2700015.D
Acq: 27 May 2014 5:01 pm

Tgt Ion: 105 Resp: 1441
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 0.0 13.1 19.7#



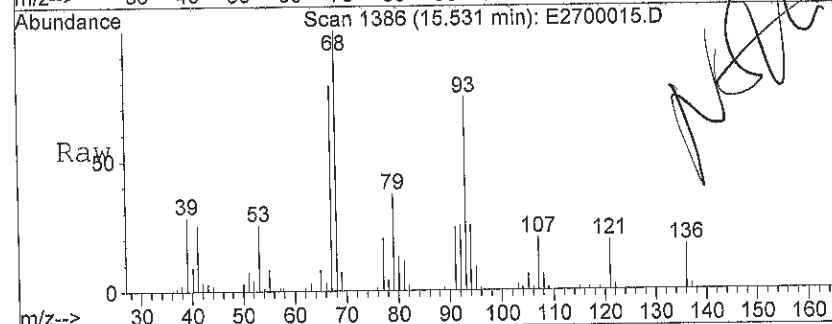
Abundance

Ion 105.10 (104.80 to 105.80): E27000
Ion 120.15 (119.85 to 120.85): E27000
Ion 77.05 (76.75 to 77.75): E2700015.



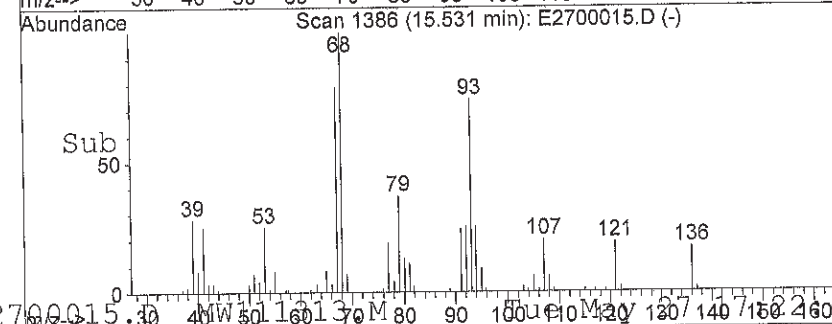
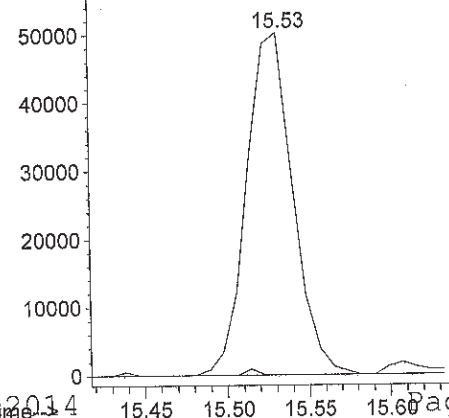
#62
n-Propylbenzene
Concen: 3.75 ug/L
RT: 15.53 min Scan# 1386
Delta R.T. 0.07 min
Lab File: E2700015.D
Acq: 27 May 2014 5:01 pm

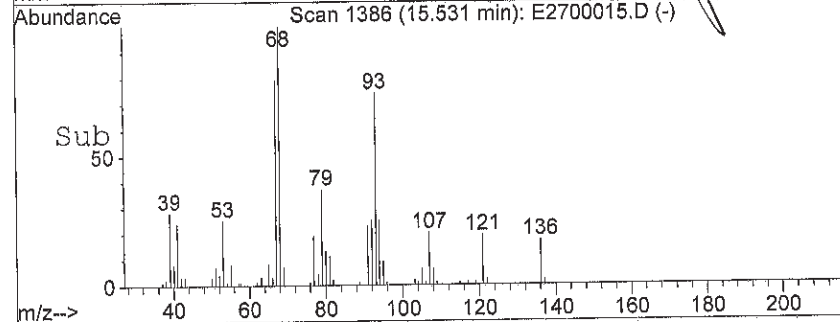
Tgt Ion: 91 Resp: 98841
Ion Ratio Lower Upper
91 100
120 0.5 16.1 24.1#



Abundance

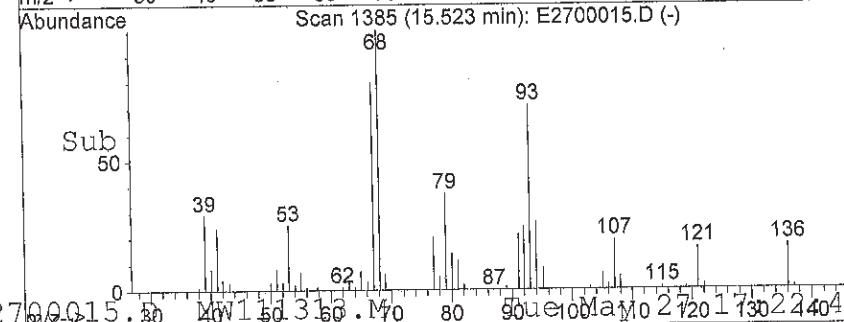
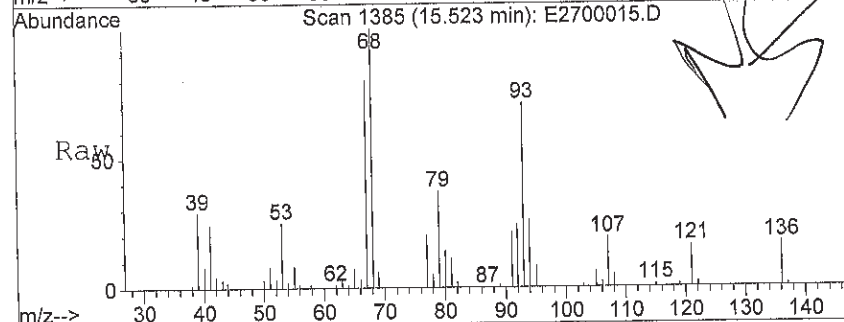
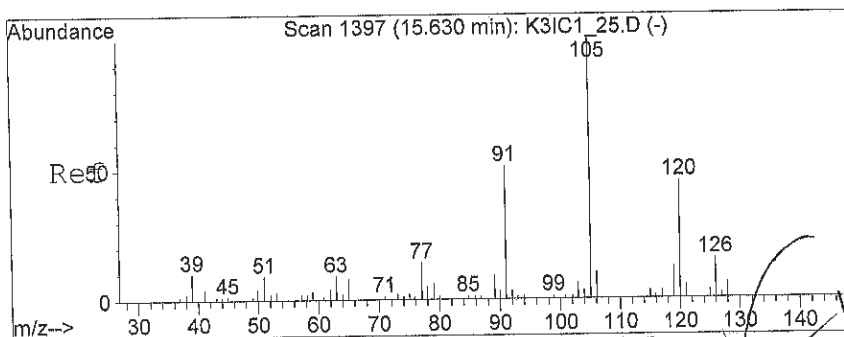
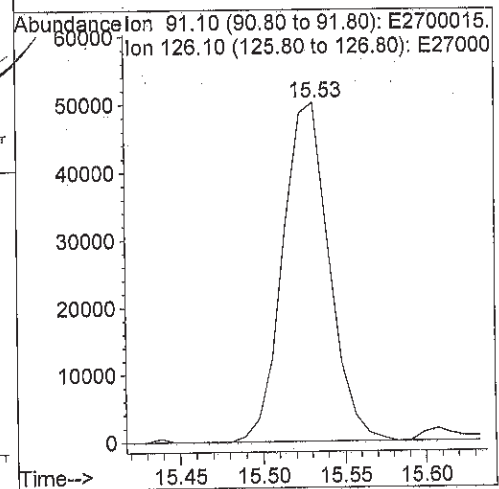
Ion 91.10 (90.80 to 91.80): E2700015.
Ion 120.15 (119.85 to 120.85): E27000





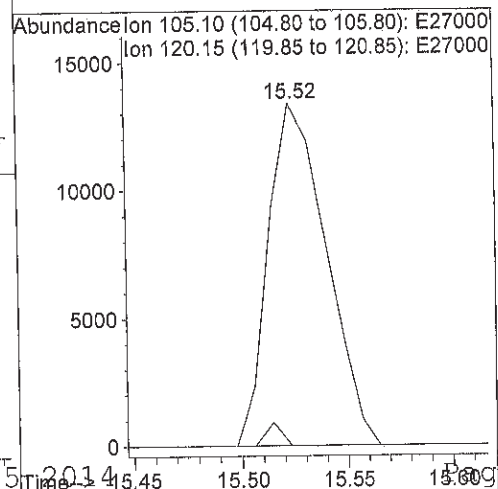
```
#63
2-Chlorotoluene
Concen: 6.09 ug/L
RT: 15.53 min Scan# 1386
Delta R.T. -0.08 min
Lab File: E2700015.D
Acq: 27 May 2014 5:01 pm
```

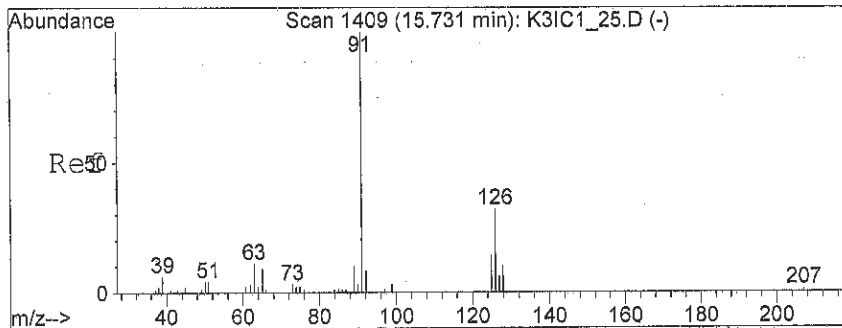
Tgt	Ion: 91	Resp:	98841
Ion	Ratio	Lower	Upper
91	100		
126	0.0	24.0	36.0#



```
#64
1,3,5-Trimethylbenzene
Concen: 1.56 ug/L
RT: 15.52 min Scan# 1385
Delta R.T. -0.11 min
Lab File: E2700015.D
Acq: 27 May 2014 5:01 pm
```

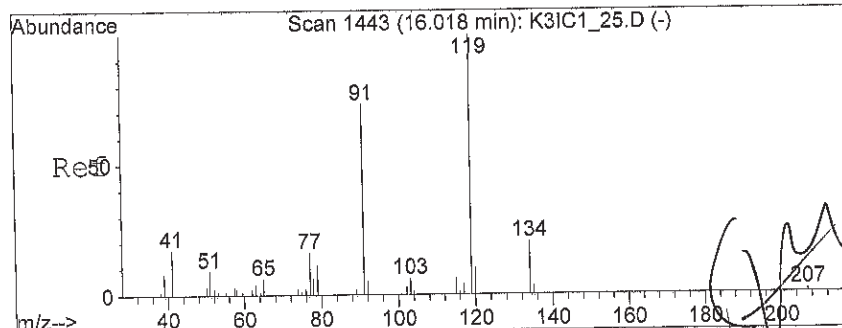
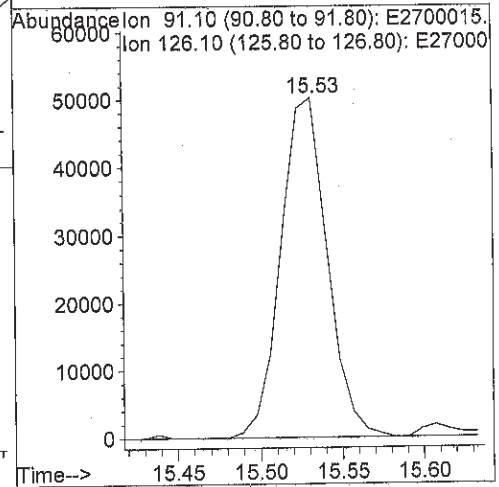
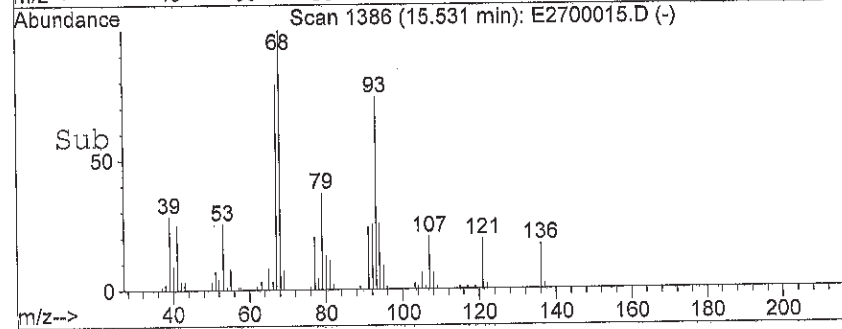
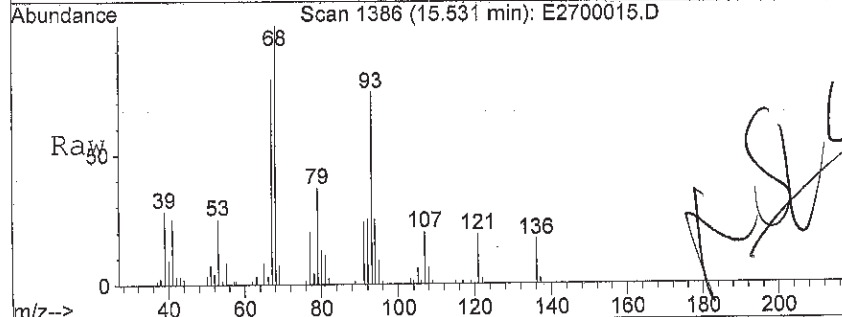
Tgt Ion:105	Resp:	25396
Ion Ratio	Lower	Upper
105	100	
120	1.8	36.4 54.6#





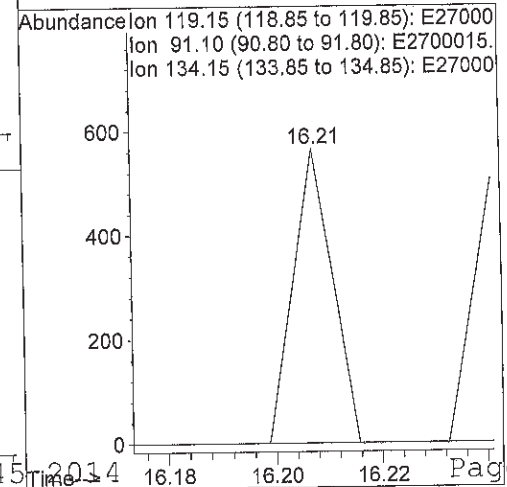
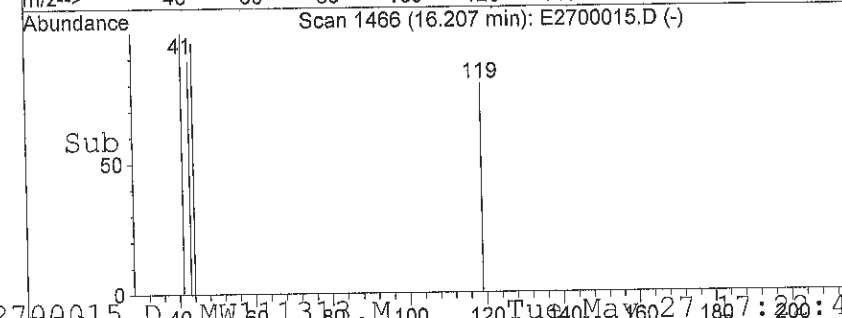
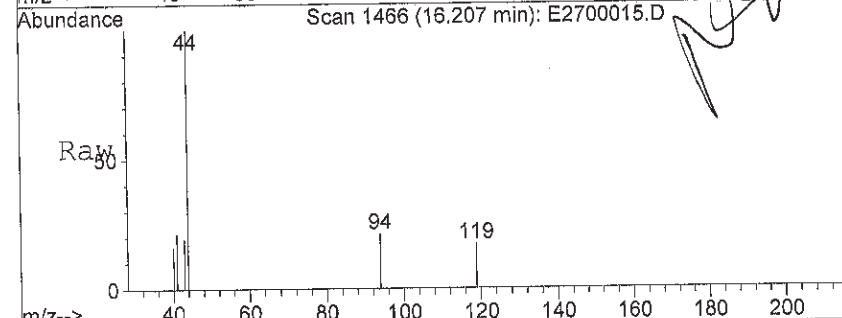
#65
 4-Chlorotoluene
 Concen: 6.59 ug/L
 RT: 15.53 min Scan# 1386
 Delta R.T. -0.20 min
 Lab File: E2700015.D
 Acq: 27 May 2014 5:01 pm

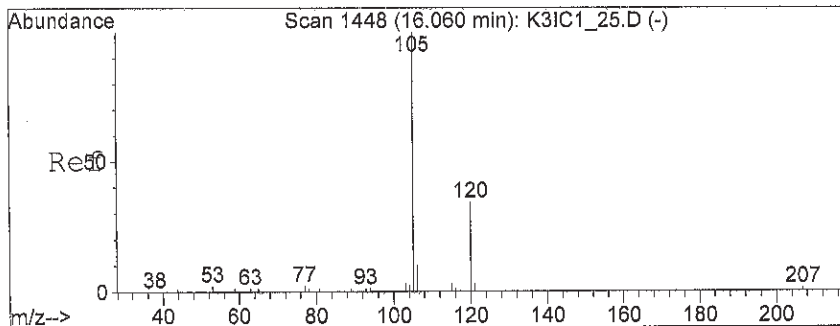
Tgt Ion:	91	Resp:	98841
Ion Ratio	Lower	Upper	
91	100		
126	0.0	24.6	36.8#



#66
 tert-Butylbenzene
 Concen: 0.02 ug/L
 RT: 16.21 min Scan# 1466
 Delta R.T. 0.19 min
 Lab File: E2700015.D
 Acq: 27 May 2014 5:01 pm

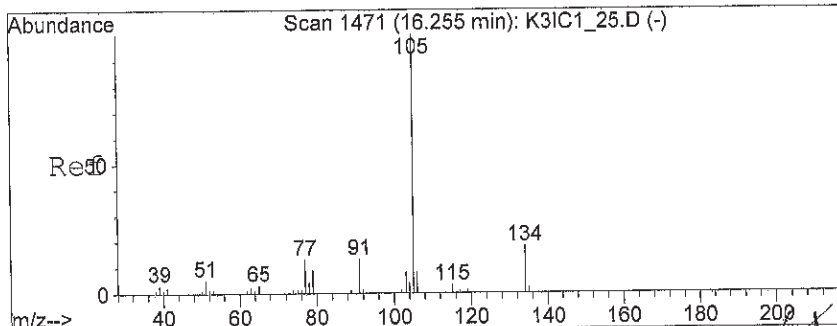
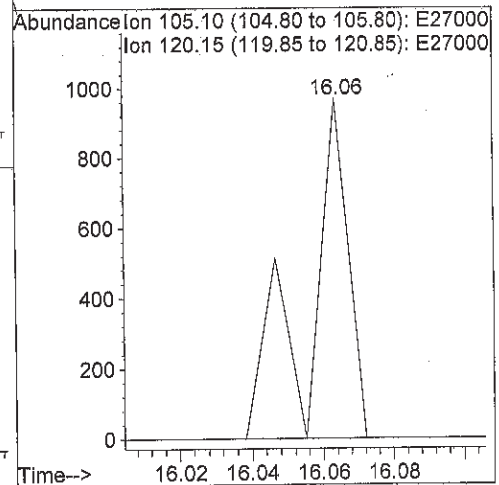
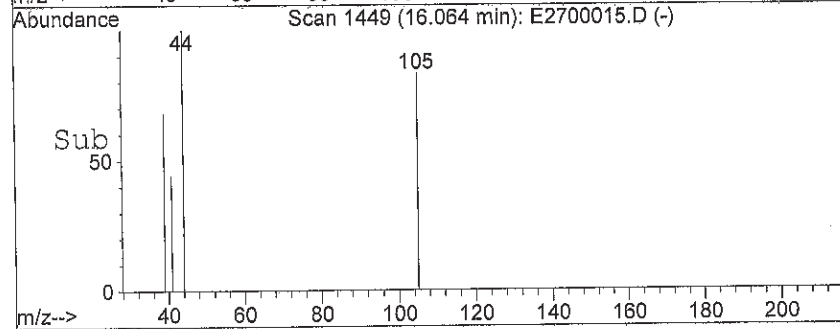
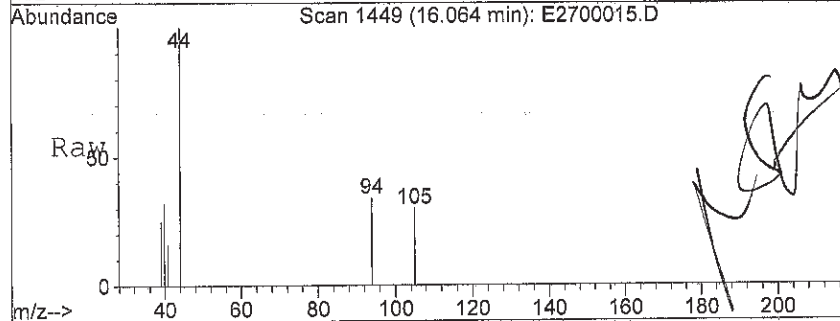
Tgt Ion:	119	Resp:	287
Ion Ratio	Lower	Upper	
119	100		
91	0.0	56.3	84.5#
134	0.0	16.1	24.1#





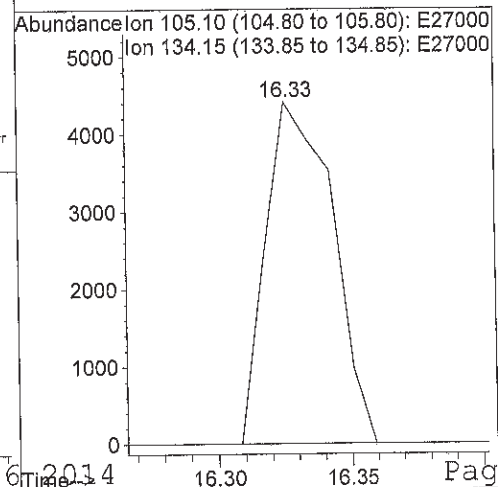
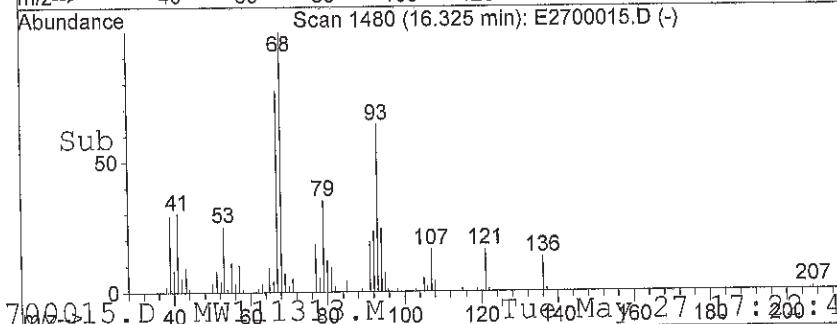
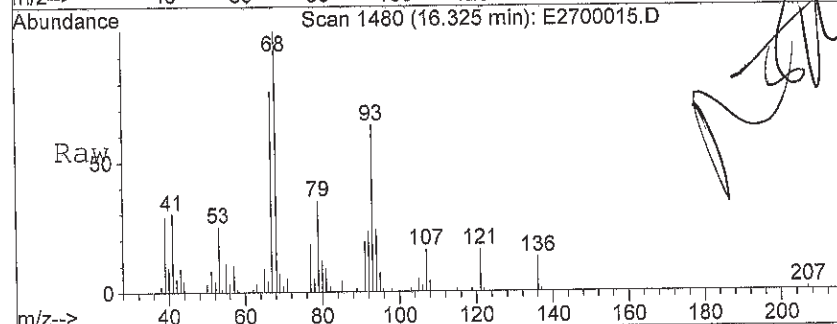
#67
 1,2,4-Trimethylbenzene
 Concen: 0.04 ug/L
 RT: 16.06 min Scan# 1449
 Delta R.T. 0.00 min
 Lab File: E2700015.D
 Acq: 27 May 2014 5:01 pm

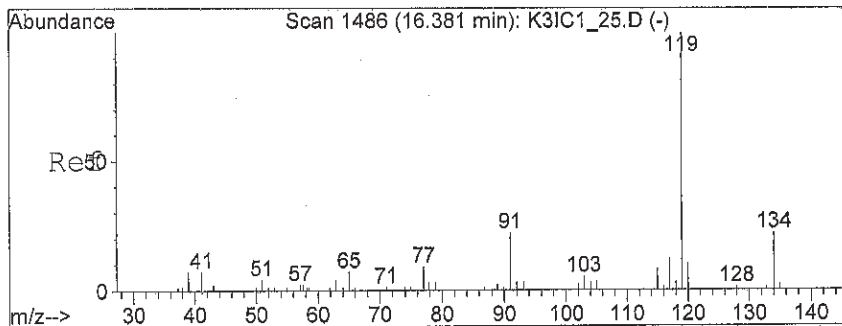
Tgt Ion:105 Resp: 750
 Ion Ratio Lower Upper
 105 100
 120 0.0 33.8 50.8#



#68
 sec-Butylbenzene
 Concen: 0.35 ug/L
 RT: 16.33 min Scan# 1480
 Delta R.T. 0.07 min
 Lab File: E2700015.D
 Acq: 27 May 2014 5:01 pm

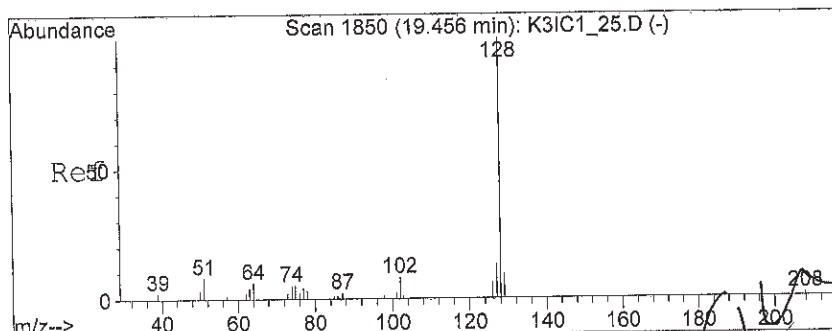
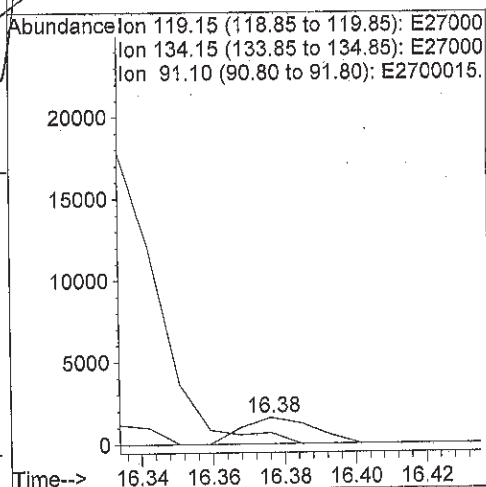
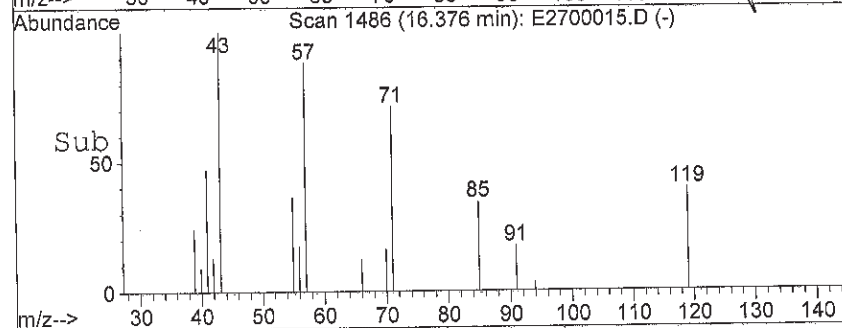
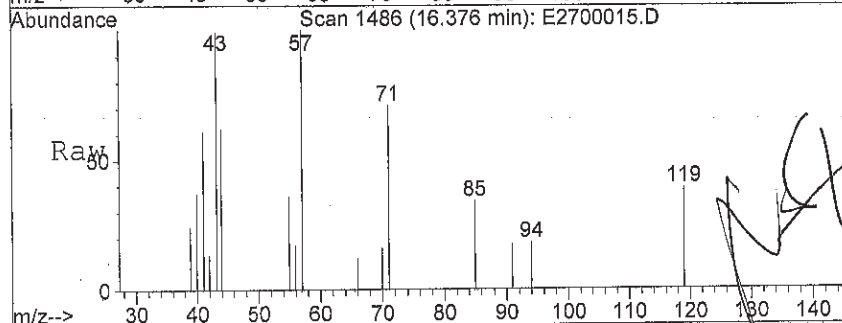
Tgt Ion:105 Resp: 7681
 Ion Ratio Lower Upper
 105 100
 134 0.0 13.0 19.6#





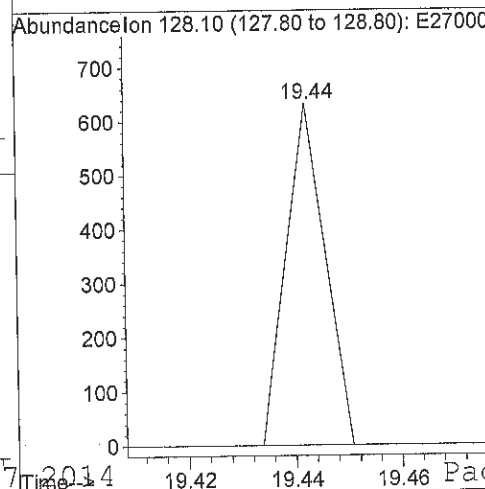
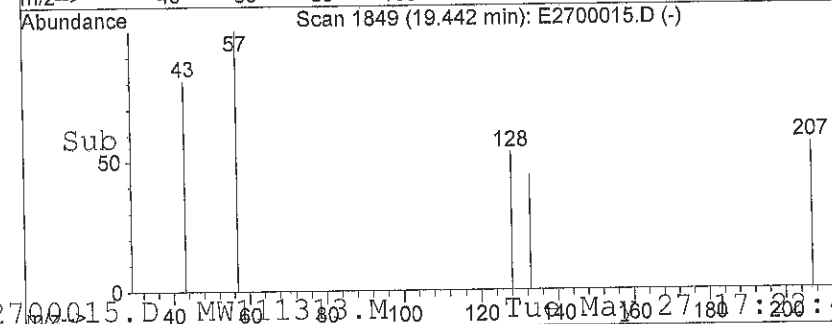
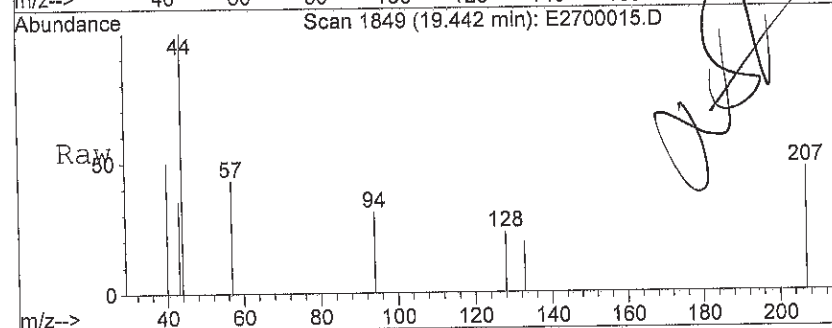
#69
 p-Isopropyltoluene
 Concen: 0.12 ug/L
 RT: 16.38 min Scan# 1486
 Delta R.T. -0.01 min
 Lab File: E2700015.D
 Acq: 27 May 2014 5:01 pm

Tgt Ion: 119 Resp: 2194
 Ion Ratio Lower Upper
 119 100
 134 0.0 17.4 26.2#
 91 0.0 19.6 29.4#



#77
 Naphthalene
 Concen: 0.02 ug/L
 RT: 19.44 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: E2700015.D
 Acq: 27 May 2014 5:01 pm

Tgt Ion: 128 Resp: 320



Data File : C:\HPCHEM\1\DATA\052714L3\E2700015.D

Vial: 6

Acq On : 27 May 2014 5:01 pm

Operator: DN

Sample : 3E42701-12

Inst : GC/MS Ins

Misc : 100cc FB-052714

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 17:23 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1656895	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.92	117	1256411	12.50	ug/L	0.00
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	652135	12.50	ug/L	-0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	464949	10.79	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	86.32%
3) Chloroform-d (SU6)	9.19	84	770768	12.47	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	99.76%
4) Methylene Chloride-d2 (SU5)	7.08	86	437148	12.10	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	96.80%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	447485	15.20	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	121.60%
6) Benzene-d6 (SU7)	9.93	84	1471764	11.32	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	90.56%
8) Toluene-d8 (SU3)	12.20	98	1465222	12.29	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	98.32%
9) 4-Bromofluorobenzene (SU4)	15.22	95	663833	13.49	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	107.92%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2700015.D SS072713.M

Tue May 27 17:23:18 2014

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052714L3\E2700015.D

Vial: 6

Acq On : 27 May 2014 5:01 pm

Operator: DN

Sample : 3E42701-12

Inst : GC/MS Ins

Misc : 100cc FB-052714

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 27 17:23 19114

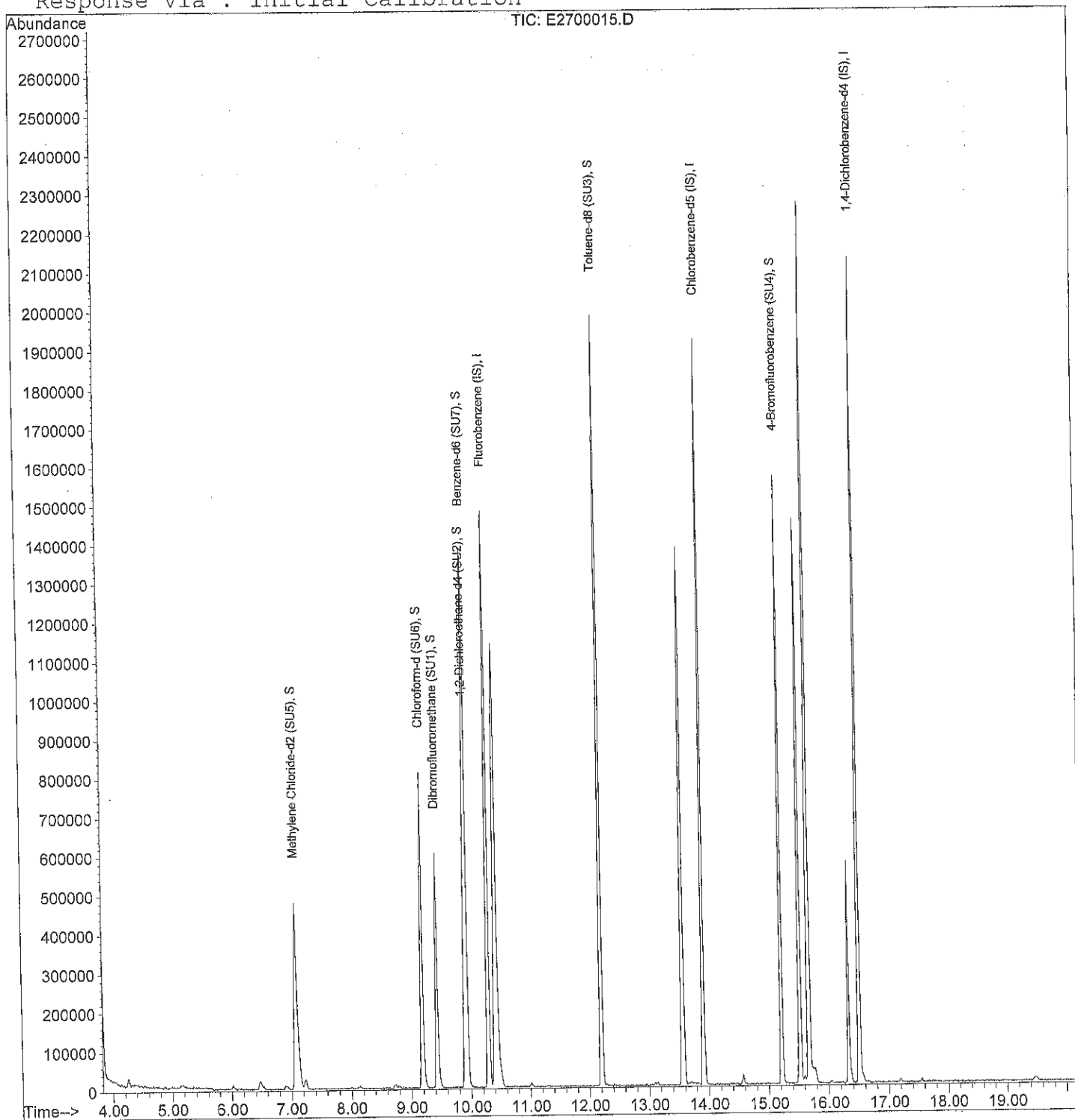
Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052714L3\E27LCS02.D

Vial: 9

Acq On : 27 May 2014 5:30 pm

Operator: DN

Sample : 34E2701-BSD1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 28 5:51 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1665701	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1168708	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	574407	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	458494	11.04	ug/L	0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	88.32%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	424783	10.76	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	86.08%
39) Toluene-d8 (SU3)	12.20	98	1410221	12.94	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	103.52%
58) 4-Bromofluorobenzene (SU4)	15.22	95	606610	12.69	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	101.52%

Target Compounds

					Qvalue
3) (F12) Dichlorodifluorometh	4.11	85	53781	1.32 ug/L	97
4) Chloromethane	4.47	50	38732	1.27 ug/L	98
5) Vinyl Chloride	4.60	62	37809	1.29 ug/L	68
6) Bromomethane	5.14	96	27612	1.33 ug/L	80
7) Chloroethane	5.29	64	18475	1.42 ug/L	89
8) (F11) Trichlorofluorometha	5.67	101	68573	1.50 ug/L	96
9) (F113) 1,1,2-Trichloro-tri	6.37	151	40377	1.23 ug/L	98
10) 1,1-Dichloroethene	6.44	96	53059	1.35 ug/L	93
11) Acetone	6.47	58	38951	-12.50 ug/L	88
12) (IPA) Leak Check Compound	6.54	45	120161	60.03 ug/L #	91
13) Carbon disulfide	6.86	76	186959	1.35 ug/L	98
14) Methylene Chloride	7.11	84	57273	1.25 ug/L	97
15) (TBA) tert-Butanol	7.10	59	2922	1.03 ug/L #	77
16) (MTBE) Methyl-t-butyl ethe	7.41	73	81779	0.87 ug/L	98
17) trans-1,2-Dichloroethene	7.48	96	58211	1.30 ug/L	98
18) 1,1-Dichloroethane	8.07	63	87135	1.16 ug/L	95
19) cis-1,2-Dichloroethene	8.84	96	60353	1.16 ug/L	92
21) (MEK) 2-Butanone	8.80	72	5349	1.14 ug/L #	46
22) (DIPE) Diisopropyl Ether	8.01	45	170804	1.31 ug/L	96
23) Bromochloromethane	9.18	128	21140	0.95 ug/L #	76
24) Chloroform	9.21	83	98150	1.12 ug/L	96
25) (ETBE) 2-ethoxy 2-methyl p	8.50	59	107454	0.89 ug/L #	98

(#)=qualifier out of range (m)=manual integration

E27LCS02.D MW111313.M Wed May 28 05:51:34 2014

Data File : C:\HPCHEM\1\DATA\052714L3\E27LCS02.D

Vial: 9

Acq On : 27 May 2014 5:30 pm

Operator: DN

Sample : 34E2701-BSD1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 28 5:51 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) 1,1,1-Trichloroethane	10.28	97	73502	1.07 ug/L	97
27) (TAME) tert-Amyl methyl et	10.00	73	97840	0.93 ug/L	95
29) 1,1-Dichloropropene	9.69	75	72625	1.13 ug/L	98
30) Carbon Tetrachloride	13.89	117	73273	1.31 ug/L	100
31) Benzene	9.98	78	198081	1.26 ug/L	96
32) 1,2-Dichloroethane	10.00	62	60746	1.10 ug/L	94
33) Trichloroethene	10.74	130	62996	1.24 ug/L	95
34) 1,2-Dichloropropane	11.05	63	49457	1.32 ug/L	92
35) Dibromomethane	11.21	93	31824	1.09 ug/L	92
36) Bromodichloromethane	11.35	83	61712	1.05 ug/L	93
37) cis-1,3-Dichloropropene	11.87	75	54177	0.84 ug/L	95
40) (MIBK) 4-Methyl-2-Pentanone	12.12	43	7576	0.32 ug/L #	100
41) Toluene	12.29	91	197791	1.24 ug/L	98
42) trans-1,3-Dichloropropene	12.51	75	35878	0.68 ug/L #	80
43) 1,1,2-Trichloroethane	12.75	83	34086	1.19 ug/L #	84
44) Tetrachloroethene	12.94	164	51665	0.92 ug/L	96
45) 1,3-Dichloropropane	12.96	76	61499	1.12 ug/L	99
46) 2-Hexanone	12.97	43	25327	0.99 ug/L	93
47) Dibromochloromethane	13.25	129	47998	1.17 ug/L	97
48) 1,2-Dibromoethane	13.43	107	45468	1.22 ug/L	97
49) Chlorobenzene	13.95	112	138606	1.29 ug/L	97
50) 1,1,1,2-Tetrachloroethane	14.02	131	45416	1.19 ug/L	97
51) Ethylbenzene	14.03	91	235392	1.30 ug/L	99
52) m,p-Xylenes	14.15	106	167732	2.60 ug/L	96
53) o-Xylene	14.62	106	85291	1.34 ug/L	100
54) Styrene	14.63	104	131390	1.42 ug/L	98
55) Bromoform	14.91	173	25045	1.07 ug/L #	99
56) Isopropylbenzene	15.00	105	234772	1.35 ug/L	98
57) 1,2,3-Trichloropropane	15.42	75	52505	1.10 ug/L #	1
60) 1,1,2,2-Tetrachloroethane	15.34	83	47604	1.15 ug/L	97
61) Bromobenzene	15.44	156	57360	1.27 ug/L	93
62) n-Propylbenzene	15.45	91	282870	1.22 ug/L	100
63) 2-Chlorotoluene	15.61	91	179539	1.26 ug/L	98
64) 1,3,5-Trimethylbenzene	15.62	105	182512	1.28 ug/L	98
65) 4-Chlorotoluene	15.73	91	177981	1.35 ug/L	99
66) tert-Butylbenzene	16.01	119	150674	1.24 ug/L	92
67) 1,2,4-Trimethylbenzene	16.05	105	184246	1.23 ug/L	92

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052714L3\E27LCS02.D

Vial: 9

Acq On : 27 May 2014 5:30 pm

Operator: DN

Sample : 34E2701-BSD1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 28 5:51 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
68) sec-Butylbenzene	16.25	105	252641	1.31 ug/L	99
69) p-Isopropyltoluene	16.38	119	201958	1.29 ug/L	98
70) 1,3-Dichlorobenzene	16.44	146	111245	1.31 ug/L	97
71) 1,4-Dichlorobenzene	16.54	146	110130	1.30 ug/L	99
72) n-Butylbenzene	16.84	91	204884	1.24 ug/L	99
73) 1,2-Dichlorobenzene	16.98	146	103269	1.37 ug/L	94
74) 1,2-Dibromo-3-chloropropan	17.93	75	6325	1.03 ug/L	90
75) 1,2,4-Trichlorobenzene	19.03	180	59856	1.17 ug/L	99
76) Hexachlorobutadiene	19.20	225	29021	1.26 ug/L	93
77) Naphthalene	19.45	128	110614	0.97 ug/L	100
78) Hexachloroethane	17.29	201	19275	1.16 ug/L	87
79) 1,2,3-Trichlorobenzene	19.81	180	53347	1.10 ug/L	93

(#) = qualifier out of range (m) = manual integration

E27LCS02.D MW111313.M

Wed May 28 05:51:36 2014

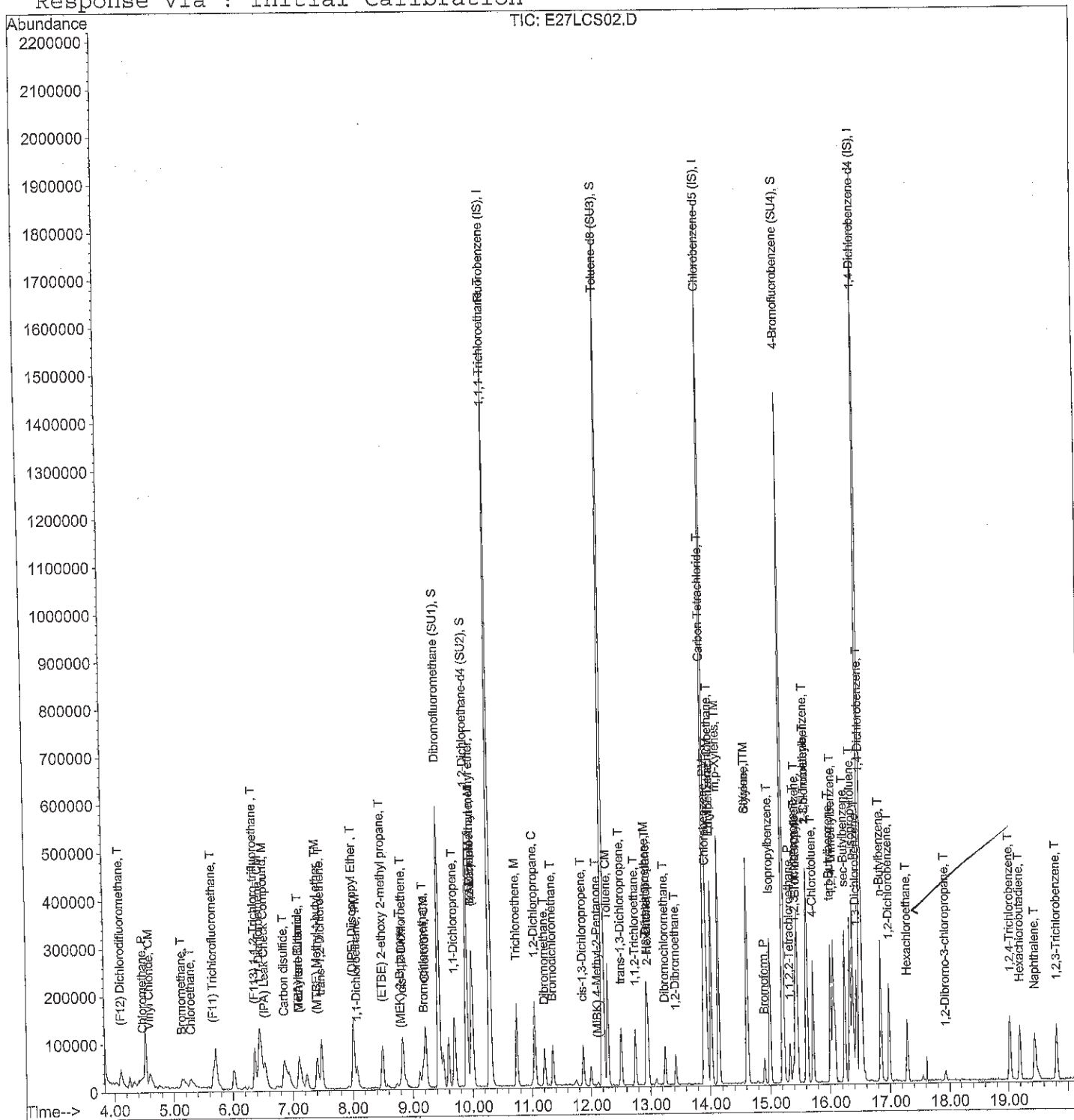
Page 3

Data File : C:\HPCHEM\1\DATA\052714L3\E27LCS02.D
Acq On : 27 May 2014 5:30 pm
Sample : 34E2701-BSD1
Misc : 20cc 1.25/2.5/12.5 ug/L LCS
MS Integration Params: rteint.p
Quant Time: May 28 5:51 19114 Quan

Vial: 9
Operator: DN
Inst: GC/MS Ins
Multiplr: 1.00

Quant Results File: MW111313.RES

```
Method       : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title        : 8260B      GC/MS #3      ICAL 11/13/13      DN
Last Update   : Wed Nov 13 19:38:32 2013
Response via  : Initial Calibration
```



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**SOIL GAS SURVEY
SANTA SUSANA FIELD LABORATORY:
DEPARTMENT OF ENERGY
5800 WOOLSEY CANYON ROAD
CANOGA PARK, CA**

LEVEL IV DATA PACKAGE

**MWH AMERICAS
2121 NORTH CALIFORNIA BLVD.
SUITE 600
WALNUT CREEK, CA**

**EST2754
May 28, 2014**

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CHAIN-OF-CUSTODY



CHAIN-OF-CUSTODY RECORD

Environmental Support Technologies
16510 Aston St., Irvine, CA 92606 · Tel (949) 679-9500 · Fax (949) 679-9501

Client: <u>MWH Americas</u>	Sampler Name: <u>Ashley Flores</u>	Page: 1 of 1
Address: <u>250 North Madison Avenue</u>	EST Project#: <u>EST2754</u>	Custody Seals: _____
<u>Pasadena, Ca</u>	Site Location: <u>SSFL</u>	
Project Manager: <u>Sarah Von Raesfield</u>	Phone: () _____	Email: _____

Turnaround Time: (Check one)	Sample Receipt					Purge Volume (ml)	Vacuum (inches of H ₂ O)	8260B VOC's 0.02 RL							Special Instructions
	Intact:	Yes: X	No:	On Ice:	Yes:										
	N/A (Received on Site):														
Sample Name	Sample Matrix	Container Type	# of Container	Sampling		Preservative Type									
				Date	Time										
Equipment Blank	Air	Glass Bulb	1	5/28/2014	800	Surr			X						Bulb # 8
SVL-515-SA5D-SV-5.0-6.0	Air	Glass Bulb	1	5/28/2014	816	Surr			X						Bulb # 3
SVL-815-SA5D-SV-5.0-6.0	Air	Glass Bulb	1	5/28/2014	816	Surr			X						Bulb # 10
SVL-515-SA5D-SV-12.5-13.8	Air	Glass Bulb	1	5/28/2014	857	Surr			X						Bulb # 13
SVL-511-SA5D-SV-4.5-5.5	Air	Glass Bulb	1	5/28/2014	946	Surr			X						Bulb # 11
SVL-511-SA5D-SV-9.5-10.5	Air	Glass Bulb	1	5/28/2014	1019	Surr			X						Bulb # 12
SVL-516-SA5D-SV-6.0-7.0	Air	Glass Bulb	1	5/28/2014	1055	Surr			X						Bulb # 5
SVL-516-SA5D-SV-14.0-15.0	Air	Glass Bulb	1	5/28/2014	1126	Surr			X						Bulb # 6
SVL-510-SA5D-SV-7.5-8.5	Air	Glass Bulb	1	5/28/2014	1250	Surr			X						Bulb # 9
SVL-544-SA5D-SV-4.5-5.5	Air	Glass Bulb	1	5/28/2014	1325	Surr			X						Bulb # 1
FB-052814	Air	Glass Bulb	1	5/28/2014	1356	Surr			X						Bulb # 7

Relinquished by: (Signature) 	Date/Time: <u>05/28/14</u>	Received by:	Date/Time:
Relinquished by: (Signature)	Date/Time:	Received by:	Date/Time:

**SAMPLE RESULTS WITH ANALYSIS AND
EXTRACTIONS PREPARATION DATES**



June 0q, 2013

Sarah Von Raesfield

MWH Americas, Inc.

250 No. Madison Avenue

Pasadena, CA 91107

RE: Santa Susana Field Laboratory, Canoga Park

Enclosed are the results of analyses for soil gas samples received by Environmental Support Technologies laboratory on 05/24/13 13:31. The analyses were performed according to the prescribed method as outlined by EPA 42w08. A shut in test was performed, leak test was performed, equipment blank was run, and selected purge volume was qPV. If you have any questions concerning this report, please feel free to contact Project Manager.

Sincerely,

Ashley Flores

Ashley Flores

Project Manager

Environmental Support Technologies laboratories are certified by the California Department of Health Services (CDHS),
Environmental Laboratory Accreditation Program (ELAP) No's. 2772, 277q, and 27w7.

1w510 Aston Street, Irvine, California 92w0w
Telephone: (939) w79-9500 Fax: (939) w79-9501



MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2753
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-13 13:5q

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Analyzed
Equipment 8 tank	qE32401-01	Air	24-May-13 04:00	24-May-13 04:1q
SVL-515-SA5D-SV-5.0-w0	qE32401-02	Air	24-May-13 04:1w	24-May-13 04:37
SVL-415-SA5D-SV-5.0-w0	qE32401-0q	Air	24-May-13 04:1w	24-May-13 09:39
SVL-515-SA5D-SV-12.5-1q.4	qE32401-03	Air	24-May-13 04:57	24-May-13 10:19
SVL-511-SA5D-SV-3.5-5.5	qE32401-05	Air	24-May-13 09:3w	24-May-13 10:37
SVL-511-SA5D-SV-9.5-10.5	qE32401-0w	Air	24-May-13 10:19	24-May-13 11:14
SVL-51w-SA5D-SV-w0-7.0	qE32401-07	Air	24-May-13 10:55	24-May-13 11:37
SVL-51w-SA5D-SV-13.5-15.0	qE32401-04	Air	24-May-13 11:2w	24-May-13 12:1w
SVL-510-SA5D-SV-7.5-4.5	qE32401-09	Air	24-May-13 12:50	24-May-13 1q:13
SVL-533SA5D-SV-3.5-5.5	qE32401-10	Air	24-May-13 1q:25	24-May-13 1q:50
F8-052413	qE32401-11	Air	24-May-13 1q:5w	24-May-13 13:19

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2753
Project Manager: Sarah Von Raesfeld

Reported:
0q-Jun-13 13:5q

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equipment Blank (3E42701-01) Air Sampled: 05/27/14 07:00 Analyzed: 05/27/14 07:13									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q3E2401	05/24/13	05/24/13	EPA 42w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	ND	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>2urroSateg: ibromofluoromethane</i>		<i>90.9 1</i>	<i>0%5- %</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg Toluene7d9</i>		<i>D9.8 1</i>	<i>0%5- %</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg 876 romofluorobenzene</i>		<i>54B 1</i>	<i>0%5- %</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg 6 enzene7dB</i>		<i>9-.- 1</i>	<i>047584</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg Chloroform7d</i>		<i>9D- 1</i>	<i>047584</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg Methylene chloride7d-</i>		<i>9B.4 1</i>	<i>047584</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2753
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-13 13:5q

Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-515-SA5D-SV-590-.90 (3E42701-02) Air Sampled: 05/27/14 07:1. Analyzed: 05/27/14 07:46									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q3E2401	05/24/13	05/24/13	EPA 42w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.0052	0.020	"	"	"	"	"	"	J
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
2urroSateg: ibromofluoromethane		D8.- 1	0%85- %		"	"	"	"	
2urroSategToluene7d9		D8.%1	0%85- %		"	"	"	"	
2urroSateg87romofluorobenzene		540 1	0%85- %		"	"	"	"	
2urroSateg6 enzene7dB		D5.B 1	047584		"	"	"	"	
2urroSategChloroform7d		548 1	047584		"	"	"	"	
2urroSategMethylene chloride7d-		544 1	047584		"	"	"	"	

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Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2753
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-13 13:5q

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-715-SA5D-SV-590-.90 (3E42701-03) Air Sampled: 05/27/14 07:1. Analyzed: 05/27/14 08:48									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q3E2401	05/24/13	05/24/13	EPA 42w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.0064	0.020	"	"	"	"	"	"	J
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>2urroSateg: ibromofluoromethane</i>		<i>D8.8 1</i>	<i>0%5- %</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSategToluene7d9</i>		<i>D9.5 1</i>	<i>0%5- %</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg87romofluorobenzene</i>		<i>554 1</i>	<i>0%5- %</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg6 enzene7dB</i>		<i>9D8 1</i>	<i>047584</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSategChloroform7d</i>		<i>544 1</i>	<i>047584</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSategMethylene chloride7d-</i>		<i>D964 1</i>	<i>047584</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2753
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-13 13:5q

Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-515-SA5D-SV-1295-1397 (3E42701-04) Air Sampled: 05/27/14 07:56 Analyzed: 05/27/14 10:18									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q3E2401	05/24/13	05/24/13	EPA 42w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	0907.	0.020	"	"	"	"	"	"	J
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	09027	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	09055	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>2urroSateg: ibromofluoromethane</i>		<i>9D9 1</i>	<i>0%5- %</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg Toluene7d9</i>		<i>D0.3 1</i>	<i>0%5- %</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg 87romofluorobenzene</i>		<i>54D1</i>	<i>0%5- %</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg 6 enzene7dB</i>		<i>90.4 1</i>	<i>047584</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg Chloroform7d</i>		<i>D0.4 1</i>	<i>047584</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg Methylene chloride7d-</i>		<i>D8.%1</i>	<i>047584</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2753
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-13 13:5q

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-511-SA5D-SV-45-55 (3E42701-05) Air Sampled: 05/27/14 08:4. Analyzed: 05/27/14 10:46									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q3E2401	05/24/13	05/24/13	EPA 42w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	ND	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
2urroSateg: ibromofluoromethane		DB.0 1	0%5- %		"	"	"	"	
2urroSateg Toluene7d9		DB.4 1	0%5- %		"	"	"	"	
2urroSateg 876romofluorobenzene		54%1	0%5- %		"	"	"	"	
2urroSateg 6 enzene7dB		9B.3 1	047584		"	"	"	"	
2urroSateg Chloroform7d		D%4 1	047584		"	"	"	"	
2urroSateg Methylene chloride7d-		DB.D1	047584		"	"	"	"	

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MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2753
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-13 13:5q

Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-511-SA5D-SV-85-105 (3E42701-0.) Air Sampled: 05/27/14 10:18 Analyzed: 05/27/14 11:17									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q3E2401	05/24/13	05/24/13	EPA 42w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	ND	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
2urroSateg: ibromofluoromethane		D4.B 1	0%5- %		"	"	"	"	
2urroSateg Toluene7d9		DB.0 1	0%5- %		"	"	"	"	
2urroSateg 876romofluorobenzene		54%1	0%5- %		"	"	"	"	
2urroSateg 6 enzene7dB		95.4 1	047584		"	"	"	"	
2urroSateg Chloroform7d		9B.0 1	047584		"	"	"	"	
2urroSateg Methylene chloride7d-		9B.B 1	047584		"	"	"	"	

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Reported:
0q-Jun-13 13:5q

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-51. -SA5D-SV-. 90-69 (3E42701-06) Air Sampled: 05/27/14 10:55 Analyzed: 05/27/14 11:46									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q3E2401	05/24/13	05/24/13	EPA 42w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	ND	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
2urroSateg: ibromofluoromethane		9D0 1	0%5- %		"	"	"	"	
2urroSategToluene7d9		DB.5 1	0%5- %		"	"	"	"	
2urroSateg876romofluorobenzene		54%1	0%5- %		"	"	"	"	
2urroSateg6 enzene7dB		93.5 1	047584		"	"	"	"	
2urroSategChloroform7d		9D5 1	047584		"	"	"	"	
2urroSategMethylene chloride7d-		9D8 1	047584		"	"	"	"	

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Project: Santa Susana Field Laboratory, Canoga Park
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Project Manager: Sarah Von Raesfeld

Reported:
0q-Jun-13 13:5q

Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-51. -SA5D-SV-1495-1590 (3E42701-07) Air Sampled: 05/27/14 11:2. Analyzed: 05/27/14 12:1.									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q3E2401	05/24/13	05/24/13	EPA 42w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	0.024	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.004	0.020	"	"	"	"	"	"	J
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>2urroSateg: ibromofluoromethane</i>		<i>D.B 1</i>	<i>0%5- %</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg Toluene 7d9</i>		<i>D%01</i>	<i>0%5- %</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg 8% romofluorobenzene</i>		<i>55- 1</i>	<i>0%5- %</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg 6 enzene 7dB</i>		<i>99.4 1</i>	<i>047584</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg Chloroform 7d</i>		<i>D. 3 1</i>	<i>047584</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>2urroSateg Methylene chloride 7d-</i>		<i>DB.- 1</i>	<i>047584</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Project Number: EST2753
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-13 13:5q

Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-510-SA5D-SV-68-75 (3E42701-08) Air Sampled: 05/27/14 12:50 Analyzed: 05/27/14 13:14									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q3E2401	05/24/13	05/24/13	EPA 42w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	0.024	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.077	0.020	"	"	"	"	"	"	J
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
2urroSateg: ibromofluoromethane		90.5 1	0%5- %		"	"	"	"	
2urroSategToluene7d9		D9- 1	0%5- %		"	"	"	"	
2urroSateg87romofluorobenzene		54B 1	0%5- %		"	"	"	"	
2urroSateg6 enzene7dB		93.5 1	047584		"	"	"	"	
2urroSategChloroform7d		99.%1	047584		"	"	"	"	
2urroSategMethylene chloride7d-		9B.8 1	047584		"	"	"	"	

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0q-Jun-13 13:5q

Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-544SA5D-SV-495-595 (3E42701-10) Air Sampled: 05/27/14 13:25 Analyzed: 05/27/14 13:50									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q3E2401	05/24/13	05/24/13	EPA 42w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 benzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	0.018	0.020	"	"	"	"	"	"	J
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	0.028	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	0.052	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.060	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
2-methyl-2-bromofluoromethane	DB-1	0.05%	%	"	"	"	"	"	
2-methyl-2-chlorofluoromethane	DB-1	0.05%	%	"	"	"	"	"	
2-methyl-2-bromofluorobenzene	DB-1	0.05%	%	"	"	"	"	"	
2-methyl-2-chlorofluorobenzene	DB-1	0.05%	%	"	"	"	"	"	
2-methyl-2-bromofluorobenzene	DB-1	0.05%	%	"	"	"	"	"	
2-methyl-2-chlorofluorobenzene	DB-1	0.05%	%	"	"	"	"	"	
2-methyl-2-bromofluorobenzene	DB-1	0.05%	%	"	"	"	"	"	
2-methyl-2-chlorofluorobenzene	DB-1	0.05%	%	"	"	"	"	"	

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Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-052714 (3E42701-11) Air Sampled: 05/27/14 13:5. Analyzed: 05/27/14 14:18									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q3E2401	05/24/13	05/24/13	EPA 42w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	0.016	0.020	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.0070	0.020	"	"	"	"	"	"	J
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>2urroSateg: ibromofluoromethane</i>									
		<i>D.0 1</i>							
<i>2urroSateg Toluene 7d9</i>		<i>D0.%1</i>							
		<i>0%85- %</i>							
<i>2urroSateg 8% romofluorobenzene</i>		<i>554 1</i>							
		<i>0%85- %</i>							
<i>2urroSateg 6 enzene 7dB</i>		<i>9D3 1</i>							
		<i>047584</i>							
<i>2urroSateg Chloroform 7d</i>		<i>DB- 1</i>							
		<i>047584</i>							
<i>2urroSateg Methylene chloride 7d-</i>		<i>D%9 1</i>							
		<i>047584</i>							

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Reported:
00-Jun-13 13:5q

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 34E2701 - Volatiles										
Blank (34E2701-BLK1)				Prepared & Analyzed: 05/24/13						
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l							
1,1,1-Trichloroethane	ND	0.020	"							
1,1,2,2-Tetrachloroethane	ND	0.020	"							
1,1,2-Trichloro-trifluoroethane	ND	0.020	"							
1,1,2-Trichloroethane	ND	0.020	"							
1,1-Dichloroethane	ND	0.020	"							
1,1-Dichloroethene	ND	0.020	"							
1,2-Dichloroethane	ND	0.020	"							
8 enzene	ND	0.020	"							
cis-1,2-Dichloroethene	ND	0.020	"							
Carbon tetrachloride	ND	0.020	"							
Chloroethane	ND	0.020	"							
Chloroform	ND	0.020	"							
Dichlorodifluoromethane	ND	0.020	"							
Ethylbenzene	ND	0.020	"							
Methylene Chloride	ND	0.020	"							
ortho-Xylene	ND	0.020	"							
meta- and para-Xylenes	ND	0.020	"							
trans-1,2-Dichloroethene	ND	0.020	"							
Tetrachloroethene	ND	0.020	"							
Toluene	0.01q0	0.020	"							J
Trichloroethene	ND	0.020	"							
Trichlorofluoromethane	ND	0.020	"							
Vinyl Chloride	ND	0.020	"							
2urroSateg: ibromo fluoromethane	- .3		"	- .%4		9D4	0%5- %			
2urroSateg Toluene 7d9	- .88		"	- .%4		D0.0	0%5- %			
2urroSateg 8% romo fluorobenzene	- .B9		"	- .%4		540	0%5- %			
2urroSateg 6 enzene 7dB	- .4D		"	- .%4		93.B	047584			
2urroSateg Chloroform 7d	- .4		"	- .%4		99.5	047584			
2urroSateg Methylene chloride 7d-	- .59		"	- .%4		90.3	047584			

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Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2753
Project Manager: Sarah Von Raesfeld

Reported:
0q-Jun-13 13:5q

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 34E2701 - Volatiles										
LCS (34E2701-BS1)				Prepared & Analyzed: 05/24/13						
1,1,1,2-Tetrachloroethane	1.25	0.020	ug/l	1.25		100	75-1qw			
1,1,1-Trichloroethane	1.1w	0.020	"	1.25		92.4	7q-1q3			
1,1,2,2-Tetrachloroethane	1.75	0.020	"	1.25		130	5w-139			
1,1,2-Trichloro-trifluoroethane	1.24	0.020	"	1.25		102	4q-125			
1,1,2-Trichloroethane	1.q9	0.020	"	1.25		111	w7-1q7			
1,1-Dichloroethane	1.14	0.020	"	1.25		93.3	40-121			
1,1-Dichloroethene	1.31	0.020	"	1.25		11q	7q-1q7			
1,2-Dichloroethane	1.1w	0.020	"	1.25		92.4	75-1q1			
8 enzene	1.27	0.020	"	1.25		102	79-114			
cis-1,2-Dichloroethene	1.19	0.020	"	1.25		95.2	45-11w			
Carbon tetrachloride	1.q7	0.020	"	1.25		110	73-13q			
Chloroethane	1.3q	0.020	"	1.25		113	w0-1q7			
Chloroform	1.2q	0.020	"	1.25		94.3	42-130			
Dichlorodifluoromethane	1.q4	0.020	"	1.25		110	37-129			
Ethylbenzene	1.q2	0.020	"	1.25		10w	4q-125			
Methylene Chloride	1.q7	0.020	"	1.25		110	41-12w			
ortho-Xylene	1.q0	0.020	"	1.25		103	45-115			
meta- and para-Xylenes	2.71	0.020	"	2.50		104	4q-115			
trans-1,2-Dichloroethene	1.30	0.020	"	1.25		112	72-1qq			
Tetrachloroethene	1.1w	0.020	"	1.25		92.4	w0-133			
Toluene	1.q1	0.020	"	1.25		105	70-115			
Trichloroethene	1.27	0.020	"	1.25		102	w4-1q2			
Trichlorofluoromethane	1.32	0.020	"	1.25		113	w2-133			
Vinyl Chloride	1.32	0.020	"	1.25		113	ww-1q7			
2urroSateg: ibromofluoromethane	55.3		"	5-.%		DA.5	0%AS-%			
2urroSateg Toluene %d9	5-.D		"	5-.%		543	0%AS-%			
2urroSateg 8%romofluorobenzene	5-.0		"	5-.%		545	0%AS-%			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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250 No. Madison Avenue
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Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 34E2701 - Volatiles										
LCS Dup (34E2701-BSD1)				Prepared & Analyzed: 05/24/13						
1,1,1,2-Tetrachloroethane	1.07	0.020	ug/l	1.25		45.w	75-1qw	15.5	20	
1,1,1-Trichloroethane	1.1w	0.020	"	1.25		92.4	7q-1q3	0.00	20	
1,1,2,2-Tetrachloroethane	1.1w	0.020	"	1.25		92.4	5w-139	30.5	20	QR-03
1,1,2-Trichloro-trifluoroethane	1.27	0.020	"	1.25		102	4q-125	0.743	20	
1,1,2-Trichloroethane	1.22	0.020	"	1.25		97.w	w7-1q7	1q.0	20	
1,1-Dichloroethane	1.22	0.020	"	1.25		97.w	40-121	q.qq	20	
1,1-Dichloroethene	1.2w	0.020	"	1.25		101	7q-1q7	11.2	20	
1,2-Dichloroethane	1.15	0.020	"	1.25		92.0	75-1q1	0.4ww	20	
8 enzene	1.25	0.020	"	1.25		100	79-114	1.59	20	
cis-1,2-Dichloroethene	1.23	0.020	"	1.25		99.2	45-11w	3.12	20	
Carbon tetrachloride	1.39	0.020	"	1.25		119	73-13q	4.q9	20	
Chloroethane	1.q7	0.020	"	1.25		110	w0-1q7	3.29	20	
Chloroform	1.21	0.020	"	1.25		9w4	42-130	1.w8	20	
Dichlorodifluoromethane	1.q5	0.020	"	1.25		104	37-129	2.20	20	
Ethylbenzene	1.2q	0.020	"	1.25		94.3	4q-125	7.0w	20	
Methylene Chloride	1.q0	0.020	"	1.25		103	41-12w	5.23	20	
ortho-Xylene	1.2q	0.020	"	1.25		94.3	45-115	5.5q	20	
meta- and para-Xylenes	2.w0	0.020	"	2.50		103	4q-115	3.13	20	
trans-1,2-Dichloroethene	1.qw	0.020	"	1.25		109	72-1qq	2.90	20	
Tetrachloroethene	1.11	0.020	"	1.25		44.4	w0-133	3.31	20	
Toluene	1.20	0.020	"	1.25		9w0	70-115	4.7w	20	
Trichloroethene	1.2w	0.020	"	1.25		101	w4-1q2	0.791	20	
Trichlorofluoromethane	1.39	0.020	"	1.25		119	w2-133	3.41	20	
Vinyl Chloride	1.qq	0.020	"	1.25		10w	ww-1q7	w55	20	
2urroSateg: ibromofluoromethane	55.B		"	5-.%		D-.0	0%85- %			
2urroSateg Toluene %d9	5-.8		"	5-.%		DD8	0%85- %			
2urroSateg 8%romofluorobenzene	5-.%		"	5-.%		DDD	0%85- %			

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Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 34E2701 - Volatiles

Duplicate (34E2701-DUP1)	Source: 3E42701-02			Prepared & Analyzed: 05/24/13						
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l		ND				50	
1,1,1-Trichloroethane	ND	0.020	"		ND				50	
1,1,2,2-Tetrachloroethane	ND	0.020	"		ND				50	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"		ND				50	
1,1,2-Trichloroethane	ND	0.020	"		ND				50	
1,1-Dichloroethane	ND	0.020	"		ND				50	
1,1-Dichloroethene	ND	0.020	"		ND				50	
1,2-Dichloroethane	ND	0.020	"		ND				50	
8 enzene	ND	0.020	"		ND				50	
cis-1,2-Dichloroethene	ND	0.020	"		ND				50	
Carbon tetrachloride	ND	0.020	"		ND				50	
Chloroethane	ND	0.020	"		ND				50	
Chloroform	ND	0.020	"		ND				50	
Dichlorodifluoromethane	ND	0.020	"		ND				50	
Ethylbenzene	0.00q20	0.020	"		ND				50	J
Methylene Chloride	ND	0.020	"		ND				50	
ortho-Xylene	ND	0.020	"		ND				50	
meta- and para-Xylenes	ND	0.020	"		ND				50	
trans-1,2-Dichloroethene	ND	0.020	"		ND				50	
Tetrachloroethene	ND	0.020	"		ND				50	
Toluene	0.00500	0.020	"		0.00520			q.92	50	J
Trichloroethene	ND	0.020	"		ND				50	
Trichlorofluoromethane	ND	0.020	"		ND				50	
Vinyl Chloride	ND	0.020	"		ND				50	
2urroSateg: ibromofluoromethane	-. - 0		"	-. %4		D6.4	0%65- %			
2urroSateg Toluene 7d9	-. .85		"	-. %4		D8.8	0%65- %			
2urroSateg 876romofluorobenzene	-. .05		"	-. %4		54D	0%65- %			
2urroSateg 6 enzene 7dB	-. - 9		"	-. %4		D6.8	047584			
2urroSateg Chloroform 7d	-. %6		"	-. %4		544	047584			
2urroSateg Methylene chloride 7d-	-. .80		"	-. %4		D9.D	047584			

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0q-Jun-13 13:5q

Notes and Definitions

QR-03	The RPD result for this analyte in the sample exceeded the QC control limits; however, the RPD for other analytes were within the QC control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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SUMMARY OF INITIAL CALIBRATION

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:24:09 2013
 Response via : Initial Calibration

Calibration Files

1 =K3IC00_1.D 2 =K3IC0_25.D 3 =K07LCS01.D
 4 =K3IC1_25.D 5 =K3IC02_5.D 6 =K3IC12_5.D

Compound	1	2	3	4	5	6	Avg	%RSD
1) I Fluorobenzene (IS)	-----ISTD-----							
2) S Dibromofluoromethan	0.311	0.300	0.318	0.319	0.312	0.311	0.312	2.10
3) T (F12) Dichlorodiflu	0.320	0.284	0.302	0.292	0.321	0.321	0.307	5.36
4) P Chloromethane	0.422	0.302	0.293	0.219	0.221	0.212	0.278	29.02
5) CM Vinyl Chloride	0.276	0.224	0.211	0.207	0.207	0.199	0.221	12.88
6) T Bromomethane	0.338	0.225	0.179	0.162	0.150	0.139	0.199	37.55
7) T Chloroethane	0.030	0.106	0.066	0.102	0.098	0.089	0.082	35.53
8) T (F11) Trichlorofluo	0.379	0.365	0.327	0.337	0.323	0.326	0.343	6.87
9) T (F113) 1,1,2-Trichl	0.291	0.221	0.227	0.267	0.239	0.229	0.246	11.15
10) CM 1,1-Dichloroethene	0.277	0.287	0.322	0.307	0.291	0.286	0.295	5.61
11) T Acetone	0.267	0.136	0.115	0.061	0.051	0.016	0.108	82.94
12) M (IPA) Leak Check Co	0.012	0.022	0.014	0.013	0.014	0.016	0.015	27.59
13) T Carbon disulfide	1.178	1.037	1.080	1.042	0.958	0.941	1.039	8.28
14) T Methylene Chloride	0.418	0.313	0.349	0.339	0.327	0.314	0.343	11.47
15) (TBA) tert-Butanol	0.022	0.019	0.027	0.022	0.018	0.020	0.021	16.39
16) TM (MTBE) Methyl-t-but	0.789	0.678	0.760	0.729	0.655	0.638	0.708	8.56
17) T trans-1,2-Dichloroe	0.331	0.360	0.342	0.357	0.310	0.318	0.336	6.07
18) PM 1,1-Dichloroethane	0.582	0.580	0.586	0.585	0.521	0.518	0.562	5.90
19) T cis-1,2-Dichloroeth	0.442	0.415	0.416	0.387	0.339	0.345	0.390	10.66
20) T 2,2-Dichloropropane	0.561	0.489	0.520	0.497	0.440	0.435	0.490	9.80
21) T (MEK) 2-Butanone	0.036	0.041	0.042	0.021	0.440	0.435	0.035	26.97
22) T (DIPE) Diisopropyl	1.055	1.006	1.006	1.025	0.901	0.867	0.977	7.64
23) T Bromochloromethane	0.110	0.155	0.185	0.189	0.182	0.184	0.167	18.39
24) CM Chloroform	0.723	0.654	0.684	0.676	0.594	0.598	0.655	7.70
25) T (ETBE) 2-ethoxy 2-m	1.034	0.874	0.941	0.927	0.821	0.823	0.903	9.00
26) T 1,1,1-Trichloroetha	0.516	0.540	0.535	0.523	0.496	0.488	0.517	4.07
27) T (TAME) tert-Amyl me	1.000	0.749	0.821	0.764	0.701	0.680	0.786	14.75
28) S 1,2-Dichloroethane-	0.309	0.278	0.303	0.299	0.296	0.293	0.296	3.50
29) T 1,1-Dichloropropene	0.547	0.492	0.502	0.489	0.439	0.427	0.482	9.13
30) T Carbon Tetrachlorid	0.401	0.388	0.449	0.460	0.412	0.416	0.421	6.66
31) M Benzene	1.374	1.155	1.267	1.217	1.042	1.008	1.177	11.75
32) M 1,2-Dichloroethane	0.501	0.382	0.445	0.419	0.385	0.365	0.416	12.20
33) M Trichloroethene	0.480	0.355	0.386	0.399	0.336	0.324	0.380	14.87
34) C 1,2-Dichloropropane	0.298	0.297	0.277	0.290	0.264	0.258	0.281	6.17
35) T Dibromomethane	0.207	0.209	0.227	0.244	0.215	0.216	0.220	6.33
36) T Bromodichloromethan	0.459	0.407	0.479	0.446	0.428	0.433	0.442	5.69
37) T cis-1,3-Dichloropro	0.508	0.451	0.526	0.493	0.447	0.467	0.482	6.63
38) I Chlorobenzene-d5 (IS)	-----ISTD-----							
39) S Toluene-d8 (SU3)	1.209	1.139	1.193	1.149	1.157	1.149	1.166	2.42
40) T (MIBK) 4-Methyl-2-P	0.545	0.324	0.388	0.078	0.072	0.088	0.249	79.95
41) CM Toluene	2.231	1.790	1.660	1.584	1.518	1.441	1.704	16.71

Linear

Linear
Quadratic

Quadratic

Not in use.

Not in use.

42) T	trans-1,3-Dichlorop	0.601	0.493	0.586	0.607	0.528	0.560	0.563	7.97	
43) T	1,1,2-Trichloroetha	0.310	0.285	0.355	0.328	0.286	0.281	0.308	9.58	
44) M	Tetrachloroethene	0.462	0.392	0.677	0.635	0.590	0.281	0.551	21.81	Linear
45) T	1,3-Dichloropropane	0.710	0.578	0.592	0.569	0.532	0.529	0.585	11.33	
46) T	2-Hexanone	0.333	0.186	0.340	0.266	0.333	0.182	0.273	27.20	
47) T	Dibromochloromethan	0.426	0.363	0.496	0.458	0.432	0.459	0.439	10.18	
48) T	1,2-Dibromoethane	0.412	0.355	0.430	0.402	0.394	0.396	0.398	6.27	
49) PM	Chlorobenzene	1.366	1.154	1.110	1.134	1.086	1.043	1.149	9.84	
50) T	1,1,1,2-Tetrachloro	0.449	0.384	0.437	0.407	0.388	0.387	0.409	6.91	
51) CM	Ethylbenzene	2.333	2.080	1.968	1.851	1.736	1.654	1.937	12.77	
52) TM	m,p-Xylenes	0.809	0.711	0.727	0.669	0.615	0.602	0.689	11.20	
53) TM	o-Xylene	0.867	0.664	0.674	0.671	0.615	0.594	0.681	14.25	
54) T	Styrene	1.563	1.015	1.078	1.049	0.973	0.934	1.102	21.01	Linear
55) P	Bromoform	0.237	0.199	0.286	0.259	0.238	0.276	0.249	12.69	
56) T	Isopropylbenzene	2.188	1.855	1.900	1.811	1.764	1.674	1.865	9.44	
57) T	1,2,3-Trichloroprop	0.505	0.491	0.593	0.516	0.480	0.472	0.509	8.58	
58) S	4-Bromofluorobenzen	0.518	0.507	0.527	0.511	0.510	0.495	0.511	2.08	
-----ISTD-----										
59) I	1,4-Dichlorobenzene-d									
60) P	1,1,2,2-Tetrachloro	1.020	0.822	1.013	0.870	0.774	0.905	0.901	11.13	
61) T	Bromobenzene	1.079	1.003	1.043	0.946	0.914	0.907	0.982	7.20	
62) T	n-Propylbenzene	6.721	5.112	5.219	4.601	4.392	4.279	5.054	17.82	
63) T	2-Chlorotoluene	3.644	2.948	3.362	3.044	2.868	2.805	3.112	10.48	
64) T	1,3,5-Trimethylbenz	3.612	3.208	3.247	3.017	2.832	2.775	3.115	9.93	
65) T	4-Chlorotoluene	3.315	2.950	2.942	2.812	2.597	2.623	2.873	9.19	
66) T	tert-Butylbenzene	2.817	2.666	3.007	2.633	2.430	2.371	2.654	8.96	
67) T	1,2,4-Trimethylbenz	3.774	3.331	3.421	3.050	2.968	2.953	3.250	9.91	
68) T	sec-Butylbenzene	4.837	3.956	4.522	4.187	3.865	3.852	4.203	9.54	
69) T	p-Isopropyltoluene	3.974	3.475	3.582	3.347	3.061	3.060	3.417	10.13	
70) T	1,3-Dichlorobenzene	2.120	1.740	1.888	1.871	1.734	1.744	1.850	8.06	
71) T	1,4-Dichlorobenzene	2.120	1.740	1.974	1.864	1.658	1.729	1.847	9.43	
72) T	n-Butylbenzene	4.391	3.645	3.644	3.397	3.264	3.192	3.589	12.14	
73) T	1,2-Dichlorobenzene	1.716	1.534	1.764	1.657	1.614	1.583	1.645	5.20	
74) T	1,2-Dibromo-3-chlor	0.082	0.104	0.111	0.148	0.133	0.146	0.121	21.61	Linear
75) T	1,2,4-Trichlorobenz	1.184	1.091	1.244	1.074	1.050	1.044	1.115	7.28	
76) T	Hexachlorobutadiene	0.297	0.477	0.596	0.481	0.499	0.507	0.476	20.56	Linear
77) T	Naphthalene	2.690	2.294	3.052	2.312	2.176	2.294	2.470	13.55	
78) T	Hexachloroethane	0.306	0.301	0.391	0.362	0.374	0.435	0.361	14.24	
79) T	1,2,3-Trichlorobenz	1.346	0.926	1.173	0.993	0.940	0.968	1.058	15.82	

(#) = Out of Range

MW111313.M

Wed Nov 13 19:25:18 2013

CONTINUING CALIBRATION VERIFICATION

Data File : C:\HPCHEM\1\DATA\052814L3\E28CCV01.D

Vial: 9

Acq On : 28 May 2014 5:58 am

Operator: DN

Sample : 1.25/2.5/12.5 ug/L 8260B std

Inst : GC/MS Ins

Misc : 20mL 8260 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 28 6:26 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

AF

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.31	96	1638975	12.50	ug/L	0.02
38) Chlorobenzene-d5 (IS)	13.93	117	1173167	12.50	ug/L	0.01
59) 1,4-Dichlorobenzene-d4 (IS)	16.52	152	592935	12.50	ug/L	0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.45	113	466076	11.40	ug/L	0.03
Spiked Amount	12.500	Range	75 - 125	Recovery	=	91.20%
28) 1,2-Dichloroethane-d4 (SU2)	9.91	65	470409	12.11	ug/L	0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.88%
39) Toluene-d8 (SU3)	12.22	98	1412274	12.91	ug/L	0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	103.28%
58) 4-Bromofluorobenzene (SU4)	15.24	95	615874	12.84	ug/L	0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	102.72%

Target Compounds

					Qvalue
3) (F12) Dichlorodifluorometh	4.12	85	54712	1.36	ug/L 98
4) Chloromethane	4.47	50	39381	1.31	ug/L 97
5) Vinyl Chloride	4.61	62	36360	1.26	ug/L 75
6) Bromomethane	5.16	96	26626	1.30	ug/L 41
7) Chloroethane	5.29	64	18897	1.47	ug/L 73
8) (F11) Trichlorofluorometha	5.67	101	62442	1.39	ug/L 96
9) (F113) 1,1,2-Trichloro-tri	6.38	151	39952	1.24	ug/L 100
10) 1,1-Dichloroethene	6.46	96	53223	1.38	ug/L 96
11) Acetone	6.48	58	71408	-12.50	ug/L 99
12) (IPA) Leak Check Compound	6.55	45	322600	163.80	ug/L 99
13) Carbon disulfide	6.88	76	159205	1.17	ug/L 98
14) Methylene Chloride	7.13	84	57862	1.29	ug/L 95
15) (TBA) tert-Butanol	7.12	59	6732	2.41	ug/L # 77
16) (MTBE) Methyl-t-butyl ethe	7.42	73	114428	1.23	ug/L 97
17) trans-1,2-Dichloroethene	7.50	96	59772	1.36	ug/L 95
18) 1,1-Dichloroethane	8.09	63	80462	1.09	ug/L 96
19) cis-1,2-Dichloroethene	8.85	96	59149	1.16	ug/L 93
20) 2,2-Dichloropropane	8.85	77	551	0.01	ug/L # 1
21) (MEK) 2-Butanone	8.82	72	11149	2.42	ug/L # 27
22) (DIPE) Diisopropyl Ether	8.03	45	170156	1.33	ug/L 95
23) Bromochloromethane	9.19	128	24772	1.13	ug/L # 80
24) Chloroform	9.23	83	97344	1.13	ug/L 98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052814L3\E28CCV01.D

Vial: 9

Acq On : 28 May 2014 5:58 am

Operator: DN

Sample : 1.25/2.5/12.5 ug/L 8260B std

Inst : GC/MS Ins

Misc : 20mL 8260 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 28 6:26 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) (ETBE) 2-ethoxy 2-methyl p	8.51	59	113578	0.96	ug/L #	98
26) 1,1,1-Trichloroethane	10.29	97	85281	1.26	ug/L	97
27) (TAME) tert-Amyl methyl et	10.02	73	108957	1.06	ug/L	96
29) 1,1-Dichloropropene	9.71	75	71988	1.14	ug/L	96
30) Carbon Tetrachloride	13.91	117	61862	1.12	ug/L	93
31) Benzene	10.00	78	198690	1.29	ug/L #	93
32) 1,2-Dichloroethane	10.02	62	65923	1.21	ug/L	94
33) Trichloroethene	10.76	130	61133	1.23	ug/L	97
34) 1,2-Dichloropropane	11.07	63	48761	1.32	ug/L #	79
35) Dibromomethane	11.22	93	38909	1.35	ug/L	97
36) Bromodichloromethane	11.37	83	60627	1.05	ug/L	89
37) cis-1,3-Dichloropropene	11.88	75	64415	1.02	ug/L	95
40) (MIBK) 4-Methyl-2-Pentanone	12.14	43	20558	0.88	ug/L #	100
41) Toluene	12.30	91	233723	1.46	ug/L	98
42) trans-1,3-Dichloropropene	12.52	75	46082	0.87	ug/L #	73
43) 1,1,2-Trichloroethane	12.76	83	42669	1.48	ug/L	90
44) Tetrachloroethene	12.95	164	62147	1.11	ug/L	97
45) 1,3-Dichloropropane	12.98	76	72708	1.32	ug/L	98
46) 2-Hexanone	12.98	43	57411	2.24	ug/L #	95
47) Dibromochloromethane	13.27	129	53548	1.30	ug/L #	96
48) 1,2-Dibromoethane	13.44	107	55951	1.50	ug/L	99
49) Chlorobenzene	13.97	112	140144	1.30	ug/L	96
50) 1,1,1,2-Tetrachloroethane	14.04	131	46797	1.22	ug/L	95
51) Ethylbenzene	14.04	91	233661	1.29	ug/L	98
52) m,p-Xylenes	14.16	106	168546	2.61	ug/L	99
53) o-Xylene	14.63	106	89098	1.39	ug/L	94
54) Styrene	14.64	104	140003	1.52	ug/L	99
55) Bromoform	14.92	173	32899	1.41	ug/L	94
56) Isopropylbenzene	15.02	105	220213	1.26	ug/L	99
57) 1,2,3-Trichloropropane	15.44	75	79302	1.66	ug/L #	1
60) 1,1,2,2-Tetrachloroethane	15.35	83	74782	1.75	ug/L	95
61) Bromobenzene	15.45	156	60856	1.31	ug/L	96
62) n-Propylbenzene	15.47	91	291317	1.22	ug/L	98
63) 2-Chlorotoluene	15.62	91	182516	1.24	ug/L	100
64) 1,3,5-Trimethylbenzene	15.64	105	187142	1.27	ug/L	98
65) 4-Chlorotoluene	15.73	91	182079	1.34	ug/L	99
66) tert-Butylbenzene	16.02	119	149396	1.19	ug/L	93

(#)=qualifier out of range (m)=manual integration

Data File : C:\HPCHEM\1\DATA\052814L3\E28CCV01.D

Vial: 9

Acq On : 28 May 2014 5:58 am

Operator: DN

Sample : 1.25/2.5/12.5 ug/L 8260B std

Inst : GC/MS Ins

Misc : 20mL 8260 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 28 6:26 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 1,2,4-Trimethylbenzene	16.07	105	223196	1.45	ug/L	91
68) sec-Butylbenzene	16.26	105	249690	1.25	ug/L	100
69) p-Isopropyltoluene	16.39	119	233574	1.44	ug/L #	93
70) 1,3-Dichlorobenzene	16.46	146	111873	1.28	ug/L	98
71) 1,4-Dichlorobenzene	16.54	146	114287	1.30	ug/L	96
72) n-Butylbenzene	16.86	91	221085	1.30	ug/L	99
73) 1,2-Dichlorobenzene	17.00	146	104097	1.33	ug/L	98
74) 1,2-Dibromo-3-chloropropan	17.94	75	13719	2.06	ug/L	86
75) 1,2,4-Trichlorobenzene	19.04	180	67754	1.28	ug/L	98
76) Hexachlorobutadiene	19.21	225	29740	1.25	ug/L	95
77) Naphthalene	19.47	128	256456	2.19	ug/L	100
78) Hexachloroethane	17.30	201	19058	1.11	ug/L #	86
79) 1,2,3-Trichlorobenzene	19.83	180	61579	1.23	ug/L	96

(#) = qualifier out of range (m) = manual integration

E28CCV01.D MW111313.M

Wed May 28 06:26:57 2014

Page 3

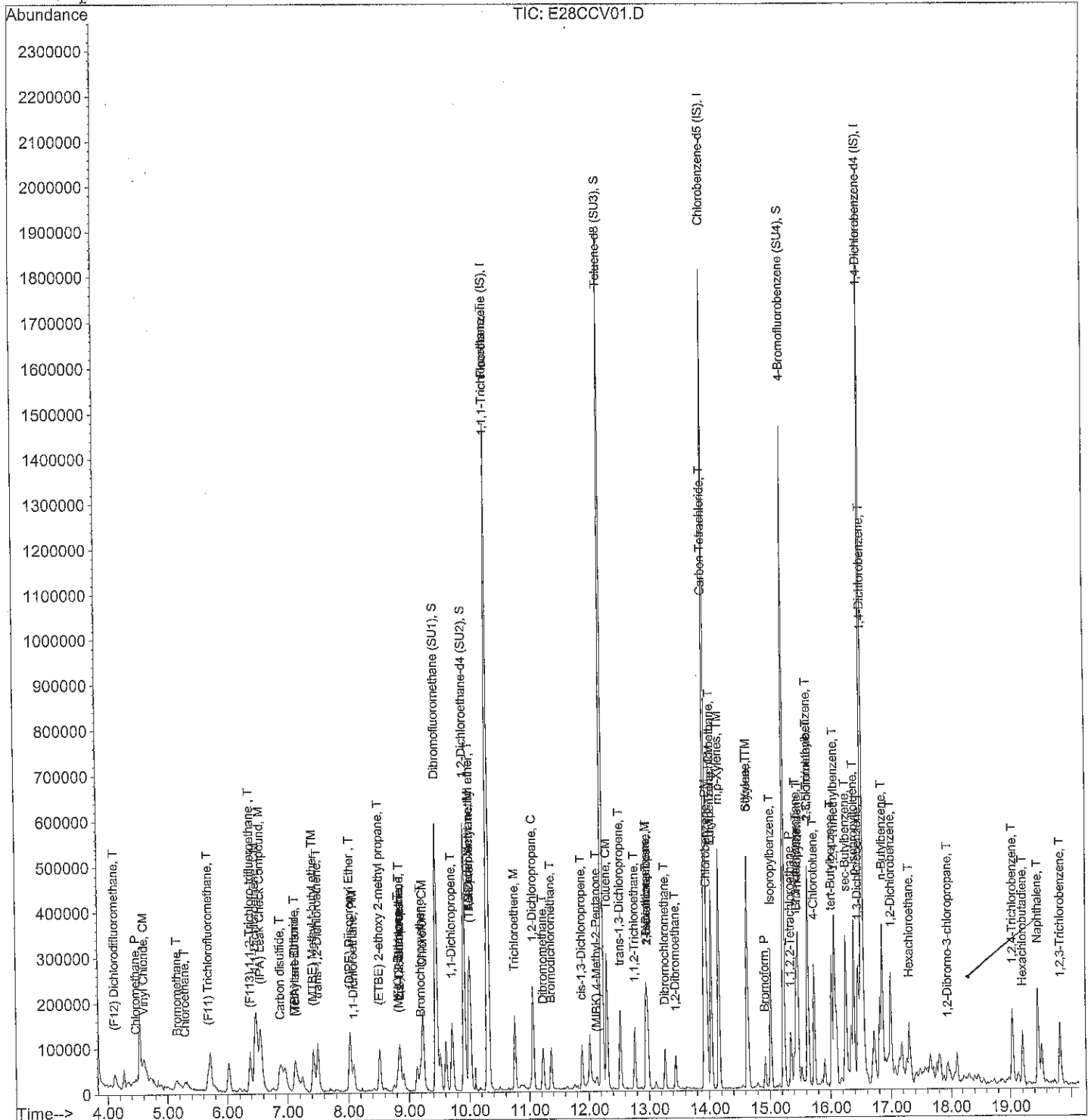
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E28CCV01.D
Acq On : 28 May 2014 5:58 am
Sample : 1.25/2.5/12.5 ug/L 8260B std
Misc : 20mL 8260 CCV
MS Integration Params: rteint.p
Quant Time: May 28 6:26 19114

Vial: 9
Operator: DN
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: MW111313.RES

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052814L3\E28CCV01.D

Vial: 9

Acq On : 28 May 2014 5:58 am

Operator: DN

Sample : 1.25/2.5/12.5 ug/L 8260B std

Inst : GC/MS Ins

Misc : 20mL 8260 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene (IS)	12.500	12.500	0.0	124	0.02
2 S	Dibromofluoromethane (SU1)	12.500	11.401	8.8	110	0.03
3 T	(F12) Dichlorodifluorometha	1.250	1.361	-8.9	141	0.04
4 P	Chloromethane	1.250	1.312	-5.0	135	0.08
5 CM	Vinyl Chloride	1.250	1.257	-0.6	132	0.05
6 T	Bromomethane	1.250	1.299	-3.9	124	0.06
7 T	Chloroethane	1.250	1.473	-17.8	140	0.05
8 T	(F11) Trichlorofluoromethan	1.250	1.388	-11.0	140	0.06
9 T	(F113) 1,1,2-Trichloro-trif	1.250	1.240	0.8	113	0.06
10 CM	1,1-Dichloroethene	1.250	1.376	-10.1	130	0.06
11 T	Acetone	1.250	-12.500	1100.0#	878	0.03
12 M	(IPA) Leak Check Compound	62.500	163.801	-162.1#	348	0.01
13 T	Carbon disulfide	1.250	1.168	6.6	115	0.07
14 T	Methylene Chloride	1.250	1.286	-2.9	129	0.04
15	(TBA) tert-Butanol	12.500	2.408	80.7#	23	0.00
16 TM	(MTBE) Methyl-t-butyl ether	2.500	1.232	50.7#	59	0.02
17 T	trans-1,2-Dichloroethene	1.250	1.355	-8.4	126	0.04
18 PM	1,1-Dichloroethane	1.250	1.092	12.6	104	0.04
19 T	cis-1,2-Dichloroethene	1.250	1.155	7.8	115	0.03
20 T	2,2-Dichloropropane	1.250	0.009	99.3#	1	0.02
21 T	(MEK) 2-Butanone	1.250	2.420	-93.6#	204	0.04
22 T	(DIPE) Diisopropyl Ether	1.250	1.329	-6.3	125	0.02
23 T	Bromochloromethane	1.250	1.129	9.7	99	0.04
24 CM	Chloroform	1.250	1.134	9.3	108	0.03
25 T	(ETBE) 2-ethoxy 2-methyl pr	1.250	0.959	23.3	92	0.01
26 T	1,1,1-Trichloroethane	1.250	1.259	-0.7	123	0.81#
27 T	(TAME) tert-Amyl methyl eth	1.250	1.057	15.4	107	0.02
28 S	1,2-Dichloroethane-d4 (SU2)	12.500	12.107	3.1	118	0.02
29 T	1,1-Dichloropropene	1.250	1.138	9.0	111	0.03
30 T	Carbon Tetrachloride	1.250	1.121	10.3	101	4.20#
31 M	Benzene	1.250	1.287	-3.0	123	0.02
32 M	1,2-Dichloroethane	1.250	1.208	3.4	119	0.03
33 M	Trichloroethene	1.250	1.228	1.8	116	0.02
34 C	1,2-Dichloropropane	1.250	1.325	-6.0	127	0.02
35 T	Dibromomethane	1.250	1.351	-8.1	120	0.01
36 T	Bromodichloromethane	1.250	1.046	16.3	102	0.02
37 T	cis-1,3-Dichloropropene	1.250	1.019	18.5	98	0.01

(#) = Out of Range

E28CCV01.D MW111313.M

Wed May 28 06:28:08 2014

Page 1

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052814L3\E28CCV01.D

Vial: 9

Acq On : 28 May 2014 5:58 am

Operator: DN

Sample : 1.25/2.5/12.5 ug/L 8260B std

Inst : GC/MS Ins

Misc : 20mL 8260 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
38 I	Chlorobenzene-d5 (IS)	12.500	12.500	0.0	113	0.01
39 S	Toluene-d8 (SU3)	12.500	12.907	-3.3	119	0.01
40 T	(MIBK) 4-Methyl-2-Pentanone	1.250	0.878	29.8	254	0.02
41 CM	Toluene	1.250	1.461	-16.9	143	0.02
42 T	trans-1,3-Dichloropropene	1.250	0.873	30.2#	73	0.01
43 T	1,1,2-Trichloroethane	1.250	1.478	-18.2	126	0.01
44 M	Tetrachloroethene	1.250	1.106	11.5	95	0.01
45 T	1,3-Dichloropropane	1.250	1.324	-5.9	124	0.01
46 T	2-Hexanone	1.250	2.237	-79.0#	208	0.01
47 T	Dibromochloromethane	1.250	1.299	-3.9	113	0.01
48 T	1,2-Dibromoethane	1.250	1.497	-19.8	135	0.01
49 PM	Chlorobenzene	1.250	1.300	-4.0	120	0.01
50 T	1,1,1,2-Tetrachloroethane	1.250	1.220	2.4	111	0.01
51 CM	Ethylbenzene	1.250	1.285	-2.8	122	0.01
52 TM	m,p-Xylenes	2.500	2.608	-4.3	122	0.01
53 TM	o-Xylene	1.250	1.394	-11.3	128	0.01
54 T	Styrene	1.250	1.518	-21.4	129	0.00
55 P	Bromoform	1.250	1.406	-12.5	123	0.01
56 T	Isopropylbenzene	1.250	1.258	-0.6	118	0.01
57 T	1,2,3-Trichloropropane	1.250	1.659	-32.7#	149	0.01
58 S	4-Bromofluorobenzene (SU4)	12.500	12.835	-2.7	117	0.01
59 I	1,4-Dichlorobenzene-d4 (IS)	12.500	12.500	0.0	118	0.01
60 P	1,1,2,2-Tetrachloroethane	1.250	1.750	-40.0#	171	0.00
61 T	Bromobenzene	1.250	1.307	-4.6	128	0.00
62 T	n-Propylbenzene	1.250	1.215	2.8	126	0.01
63 T	2-Chlorotoluene	1.250	1.237	1.0	119	0.01
64 T	1,3,5-Trimethylbenzene	1.250	1.267	-1.4	124	0.01
65 T	4-Chlorotoluene	1.250	1.336	-6.9	129	0.00
66 T	tert-Butylbenzene	1.250	1.187	5.0	113	0.00
67 T	1,2,4-Trimethylbenzene	1.250	1.448	-15.8	146	0.01
68 T	sec-Butylbenzene	1.250	1.252	-0.2	119	0.00
69 T	p-Isopropyltoluene	1.250	1.441	-15.3	139	0.01
70 T	1,3-Dichlorobenzene	1.250	1.275	-2.0	119	0.01
71 T	1,4-Dichlorobenzene	1.250	1.304	-4.3	122	0.00
72 T	n-Butylbenzene	1.250	1.299	-3.9	130	0.01
73 T	1,2-Dichlorobenzene	1.250	1.334	-6.7	125	0.01

(#)= Out of Range

E28CCV01.D MW111313.M

Wed May 28 06:28:09 2014

Page 2

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052814L3\E28CCV01.D Vial: 9
 Acq On : 28 May 2014 5:58 am Operator: DN
 Sample : 1.25/2.5/12.5 ug/L 8260B std Inst : GC/MS Ins
 Misc : 20mL 8260 CCV Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area	% Dev (min)
74 T	1,2-Dibromo-3-chloropropane	1.250	2.056	-64.5#	184	0.00
75 T	1,2,4-Trichlorobenzene	1.250	1.281	-2.5	126	0.01
76 T	Hexachlorobutadiene	1.250	1.250	0.0	123	0.01
77 T	Naphthalene	1.250	2.189	-75.1#	221	0.01
78 T	Hexachloroethane	1.250	1.112	11.0	105	0.00
79 T	1,2,3-Trichlorobenzene	1.250	1.227	1.8	123	0.01

(#) = Out of Range

E28CCV01.D MW111313.M

SPCC's out = 0 CCC's out = 0
 Wed May 28 06:28:09 2014

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SUMMARY OF INTERNAL STANDARDS

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\052814L3\E28BFB01.D

Tune Time : 28 May 14 5:46 am

Daily Calibration File : C:\HPCHEM\1\DATA\013014L3\A30CCV01.D

(PFB)	(CLBD	(1,4-
1590180	1163370	587649

File	Sample	Surrogate Recovery %				Internal Standard Responses		
E2800001.D	3E42801-	88	90	98	106	1767160	1332651	691087
E2800002.D	3E42801-	93	98	95	107	1628814	1280080	672692
E2800003.D	34E2801-	91	94	96	109	1647725	1270840	683800
E2800004.D	3E42801-	94	95	98	110	1588325	1230604	662439
E2800005.D	3E42801-	90	94	97	109	1591812	1232045	673028
E2800006.D	3E42801-	92	95	96	105	1624445	1300399	693251
E2800007.D	3E42801-	91	89	97	105	1784446	1395228	722995
E2800008.D	3E42801-	90	89	96	105	1702842	1327452	706606
E2800009.D	3E42801-	93	93	96	112	1630177	1266889	700521
E2800010.D	3E42801-	87	88	95	106	1758241	1351582	724286
E2800011.D	3E42801-	91	93	96	108	1619122	1276085	681965
E2800012.D	3E42801-	93	95	97	110	1597393	1246183	690192
E28BLK01.D	34E2801-	89	93	98	107	1886088	1421471	727836
E28LCS01.D	34E2801-	90	95	103	101	1521673	1091734	541503
E28LCS02.D	34E2801-	93	92	99	100	1584704	1196933	588085

t - fails 12hr time check * - fails criteria

Created: Sun Jun 08 11:44:57 2014 GC
MS Ins

SUMMARY OF INSTRUMENT TUNING

BFB

Data File : C:\HPCHEM\1\DATA\052814L3\E28BFB01.D

Vial: 1

Acq On : 28 May 2014 5:46 am

Operator: DN

Sample : 50 ng BFB tune

Inst : GC/MS Ins

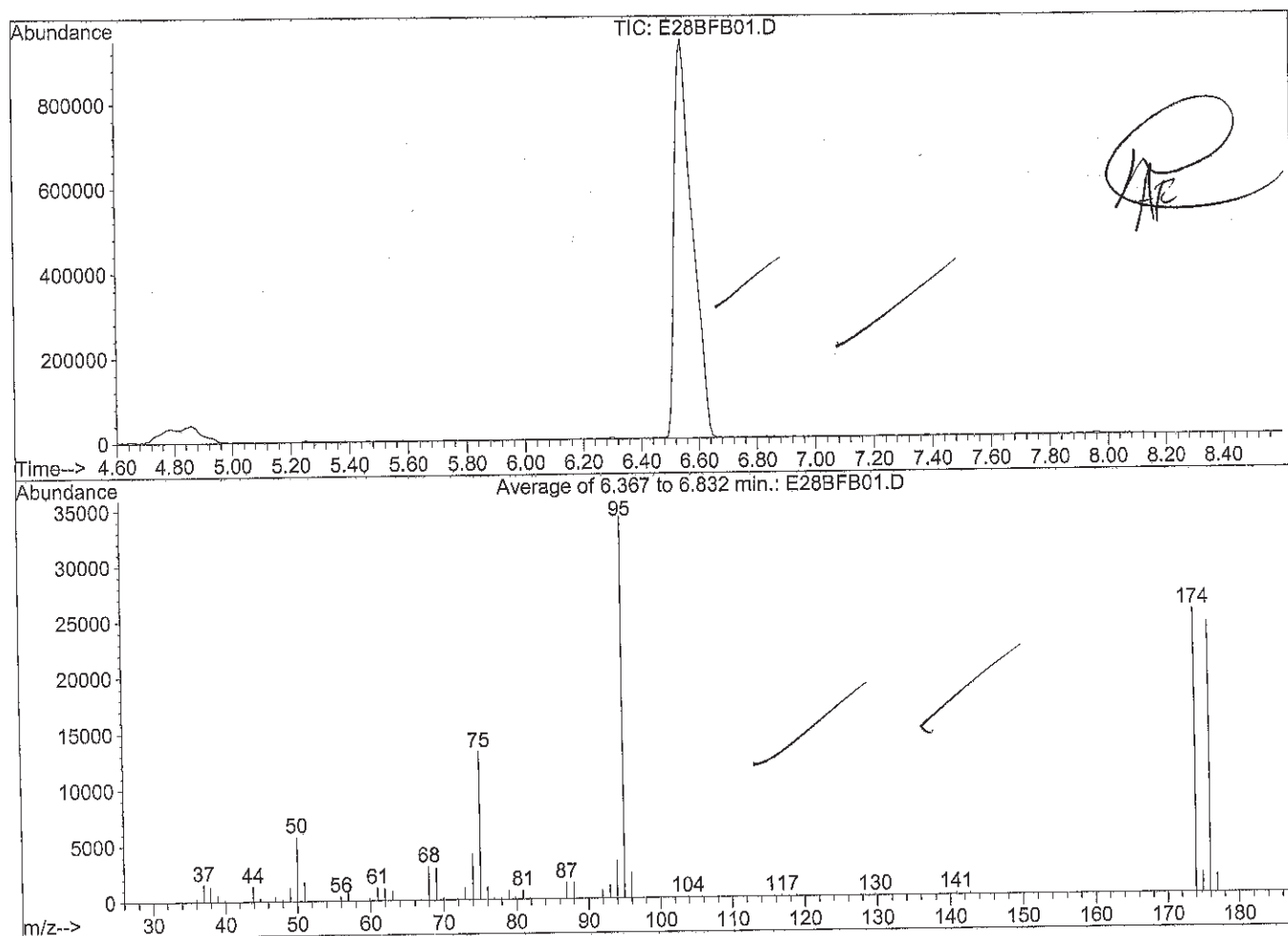
Misc : 12HRS SYSTEM BFB TUNING

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN



Spectrum Information: Average of 6.367 to 6.832 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	5733	PASS
75	95	30	60	38.7	13215	PASS
95	95	100	100	100.0	34153	PASS
96	95	5	9	6.7	2301	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.1	25306	PASS
175	174	5	9	7.1	1804	PASS
176	174	95	101	95.6	24197	PASS
177	176	5	9	6.4	1555	PASS

INJECTION LOG

Injection Log

Directory: c:\hpchem\1\data\052814\3

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	11	e2800001.d	10.	3E42801-01	100cc Equipment Blank	28 May 14 08:13
2	1	e2800002.d	10.	3E42801-02	100cc SVL-515-SA5D-SV-5.0-6.0	28 May 14 08:47
3	2	e2800003.d	10.	34E2801-DUP1	100cc SVL-515-SA5D-SV-5.0-6.0	28 May 14 09:20
4	3	e2800004.d	10.	3E42801-03	100cc SVL-815-SA5D-SV-5.0-6.0	28 May 14 09:49
5	4	e2800005.d	10.	3E42801-04	100cc SVL-515-SA5D-SV-12.5-13.8	28 May 14 10:19
6	5	e2800006.d	10.	3E42801-05	100cc SVL-511-SA5D-SV-4.5-5.5	28 May 14 10:47
7	6	e2800007.d	10.	3E42801-06	100cc SVL-511-SA5D-SV-9.5-10.5	28 May 14 11:18
8	7	e2800008.d	10.	3E42801-07	100cc SVL-516-SA5D-SV-6.0-7.0	28 May 14 11:47
9	8	e2800009.d	10.	3E42801-08	100cc SVL-516-SA5D-SV-14.0-15.0	28 May 14 12:16
10	1	e2800010.d	10.	3E42801-09	100cc SVL-510-SA5D-SV-7.5-8.5	28 May 14 13:14
11	2	e2800011.d	10.	3E42801-10	100cc SVL-544-SA5D-SV-4.5-5.5	28 May 14 13:50
12	3	e2800012.d	10.	3E42801-11	100cc FB-052814	28 May 14 14:19
13	1	e28bfb01.d	1.	50 ng BFB tune	12HRS SYSTEM BFB TUNING	28 May 14 05:46
14	11	e28blk01.d	10.	34E2801-BLK1	100cc AMBIENT AIR/H2O	28 May 14 07:43
15	9	e28ccv01.d	1.	1.25/2.5/12.5 ug/L 8260B std	20mL 8260 CCV	28 May 14 05:58
16	10	e28lcs01.d	1.	34E2801-BS1	20cc 1.25/2.5/12.5 ug/L LCS	28 May 14 06:28
17	9	e28lcs02.d	1.	34E2801-BSD1	20cc 1.25/2.5/12.5 ug/L LCS	28 May 14 14:47

SAMPLE LOG SHEET

SOIL GAS - FIELD ANALYSIS

Sample Log Sheet

EPA Method: 8260B CHHSLS 0.02 RL GILAN AIR5 PUMP
 Initial Calibration: MW111313.MTH FLOW RATE @ 200mL/min
 Cal Std Lot No.: 4D14009
 LCS Std Lot No.: 4D14008 Glass Bulb Bake @
 IS/SS Lot No.: 4D14001 130 degree for 30 min

[illegible]

CASE NARRATIVE

**LABORATORY CASE NARRATIVE
(EPA 8260B)**

SDG: 34E2801

DATE: May 28, 2014

PROJECT No.: EST2754

Eleven (11) Glass Bulb soil vapor samples were analyzed on May 28, 2014, by EPA Method Analysis performed using a gas chromatograph/mass spectrometer (GC/MS).

Sample Preservation and Holding Times

Samples were preserved according to the method recommendation, unless otherwise noted on the chain-of-custody (COC) and /or the sample log sheet. Holding times were met, unless otherwise noted in the report with data qualifiers.

QA/QC Criteria

All quality objective criteria were met, except as noted in the report with data qualifiers.

Samples Analysis

No anomalies were observed during analysis of the samples.

COMMENTS:

Results that fall between the MDL and RL are 'J' flagged.

Adjusted values corrected for significant figure correction (10X) and sample volume (5X).

RAW DATA FOR QC SAMPLES AND INITIAL CALIBRATION
DUPLICATE SAMPLE

Data File : C:\HPCHEM\1\DATA\052814L3\E2800003.D

Vial: 2

Acq On : 28 May 2014 9:20 am

Operator: DN

Sample : 34E2801-DUP1

Inst : GC/MS Ins

Misc : 100cc SVL-515-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 9:54 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1647725	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1270840	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	683800	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	467241	11.37	ug/L	0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	90.96%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	459221	11.76	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.08%
39) Toluene-d8 (SU3)	12.20	98	1428098	12.05	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.40%
58) 4-Bromofluorobenzene (SU4)	15.22	95	705094	13.57	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	108.56%

Target Compounds

Target Compounds					Qvalue	
4) Chloromethane	4.40	50	2193	-0.43 ug/L #	41	
6) Bromomethane	5.14	96	6394	1.75 ug/L #	90	
7) Chloroethane	5.21	64	672	1.18 ug/L #	95	
11) Acetone	6.48	58	7290	6.58 ug/L #	91	
12) (IPA) Leak Check Compound	6.48	45	138535	699.68 ug/L #	83	
13) Carbon disulfide	6.85	76	2497	0.18 ug/L #	76	
14) Methylene Chloride	7.09	84	7137	1.58 ug/L #	9	
15) (TBA) tert-Butanol	6.90	59	3310	11.78 ug/L #	77	
20) 2,2-Dichloropropane	8.72	77	259	0.04 ug/L #	1	
24) Chloroform	9.21	83	2106	0.24 ug/L #	1	
29) 1,1-Dichloropropene	9.94	75	254	0.04 ug/L #	1	
31) Benzene	9.98	78	539	0.03 ug/L #	57	
32) 1,2-Dichloroethane	9.93	62	7312	1.33 ug/L #	1	
40) (MIBK) 4-Methyl-2-Pentanone	12.19	43	6600	2.60 ug/L #	100	
41) Toluene	12.29	91	4279	0.25 ug/L #	88	
46) 2-Hexanone	12.93	43	1553	0.56 ug/L #	37	
51) Ethylbenzene	14.02	91	3080	0.16 ug/L #	92	
52) m,p-Xylenes	14.15	106	1929	0.28 ug/L #	51	
53) o-Xylene	14.63	106	280	0.04 ug/L #	1	
54) Styrene	14.63	104	1580	-0.72 ug/L #	61	
56) Isopropylbenzene	15.22	105	1317	0.07 ug/L #	1	
62) n-Propylbenzene	15.46	91	587	0.02 ug/L #	56	

(#) = qualifier out of range (m) = manual integration

E2800003.D MW111313.M

Wed May 28 09:54:31 2014

Data File : C:\HPCHEM\1\DATA\052814L3\E2800003.D

Vial: 2

Acq On : 28 May 2014 9:20 am

Operator: DN

Sample : 34E2801-DUP1

Inst : GC/MS Ins

Misc : 100cc SVL-515-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 9:54 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63) 2-Chlorotoluene	15.46	91	587	0.03	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.54	105	541	0.03	ug/L #	31
67) 1,2,4-Trimethylbenzene	16.05	105	1414	0.08	ug/L #	33
68) sec-Butylbenzene	16.33	105	2000	0.09	ug/L #	62
69) p-Isopropyltoluene	16.38	119	656	0.04	ug/L #	52
70) 1,3-Dichlorobenzene	16.54	146	267	0.03	ug/L #	24
71) 1,4-Dichlorobenzene	16.54	146	267	0.03	ug/L #	22
74) 1,2-Dibromo-3-chloropropan	17.75	75	320	1.29	ug/L #	6
77) Naphthalene	19.45	128	436	0.03	ug/L #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800003.D

Vial: 2

Acq On : 28 May 2014 9:20 am

Operator: DN

Sample : 34E2801-DUP1

Inst : GC/MS Ins

Misc : 100cc SVL-515-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 9:54 19114

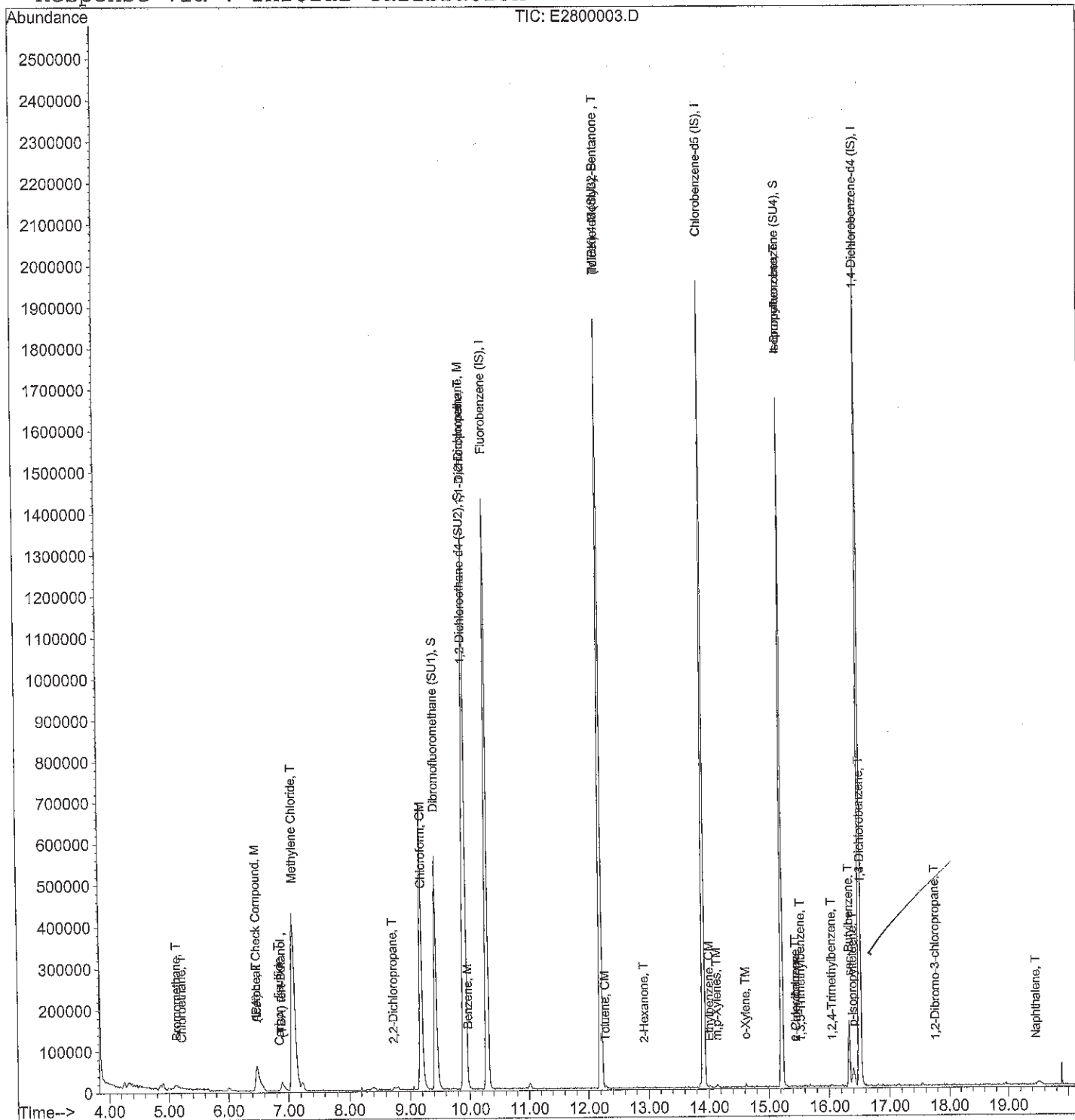
Quant Results File: MW111313.RES

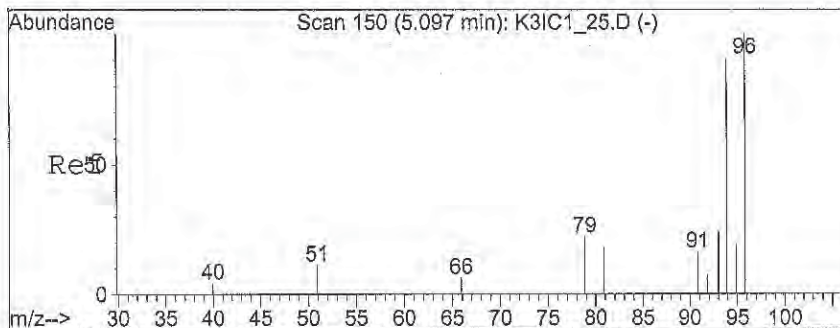
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration





#6

Bromomethane

Concen: 1.75 ug/L

RT: 5.14 min Scan# 156

Delta R.T. 0.05 min

Lab File: E2800003.D

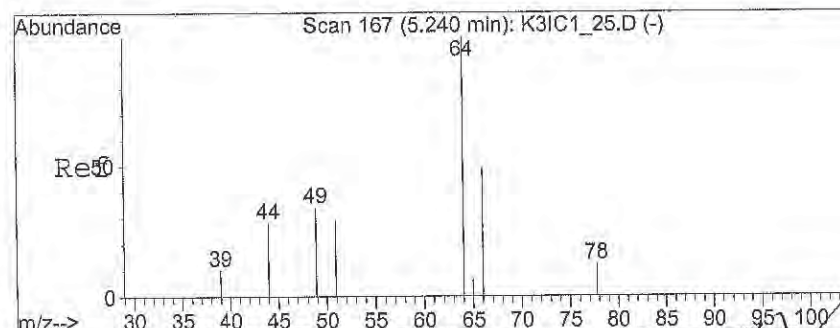
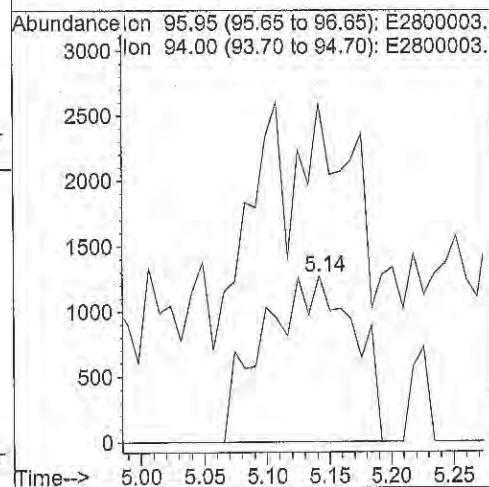
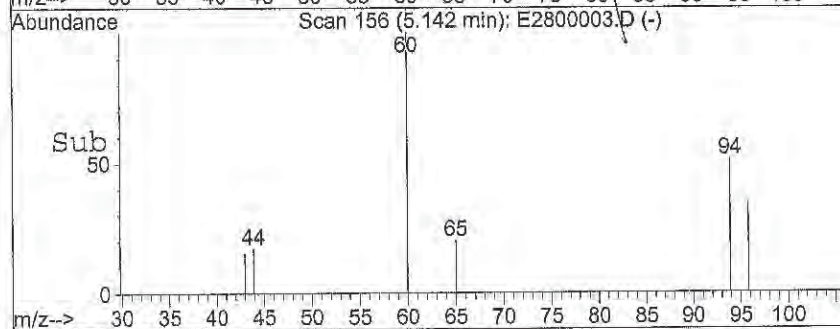
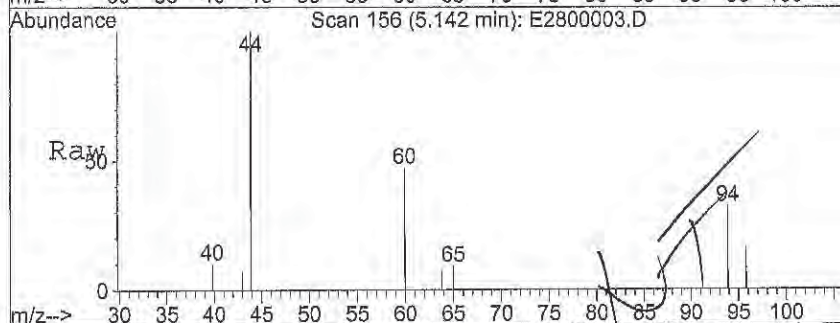
Acq: 28 May 2014 9:20 am

Tgt Ion: 96 Resp: 6394

Ion Ratio Lower Upper

96 100

94 114.8 101.0 151.4



#7

Chloroethane

Concen: 1.18 ug/L

RT: 5.21 min Scan# 164

Delta R.T. -0.03 min

Lab File: E2800003.D

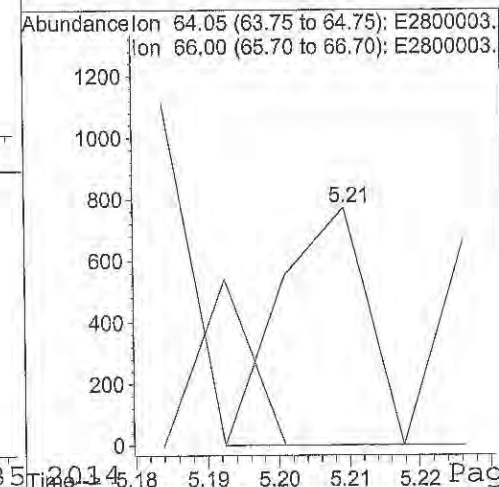
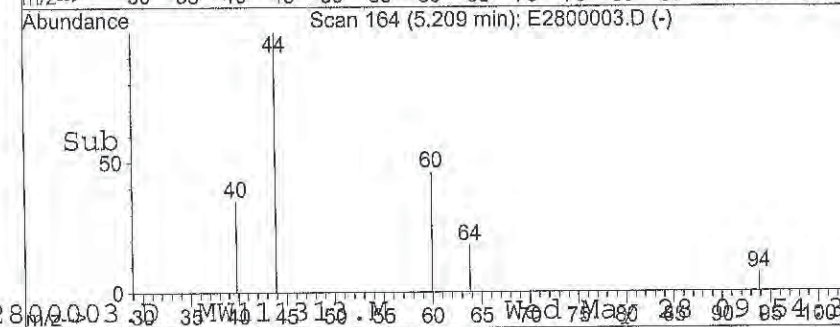
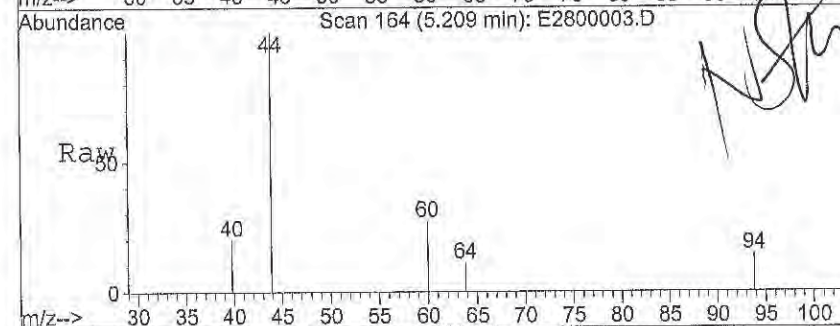
Acq: 28 May 2014 9:20 am

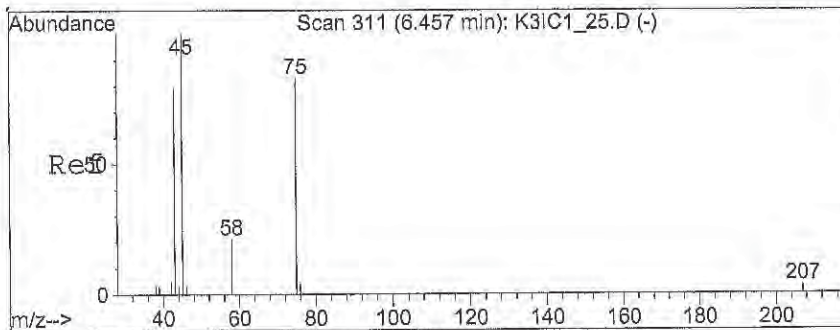
Tgt Ion: 64 Resp: 672

Ion Ratio Lower Upper

64 100

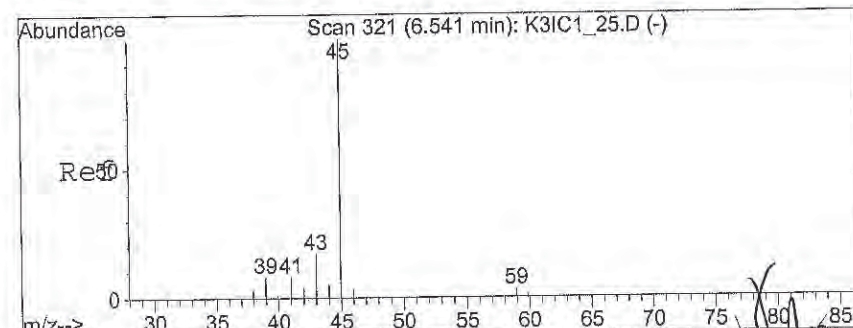
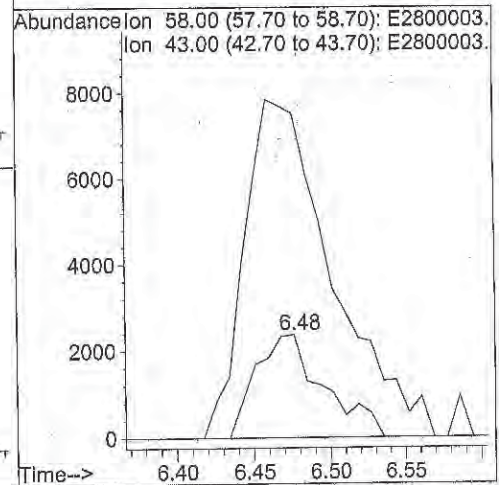
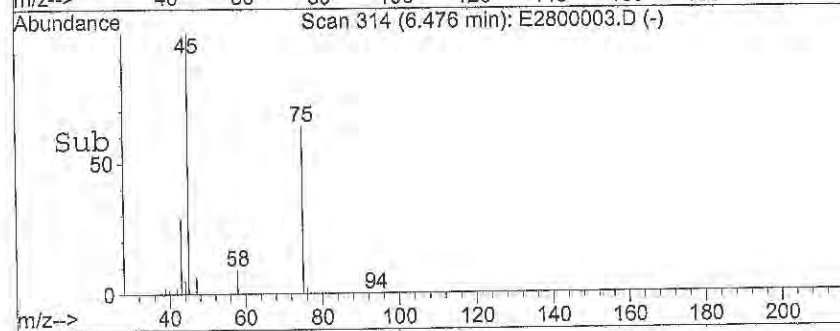
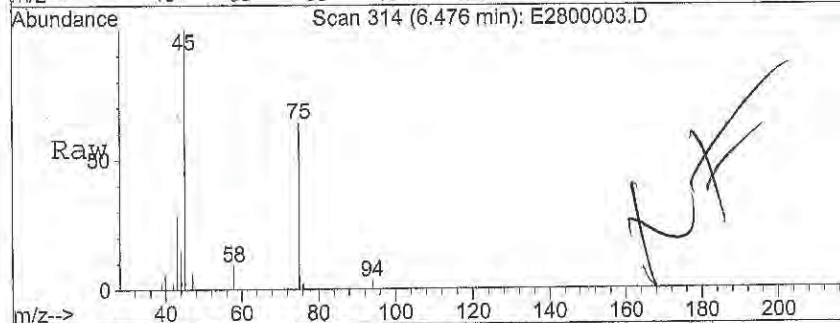
66 40.8 35.4 53.0





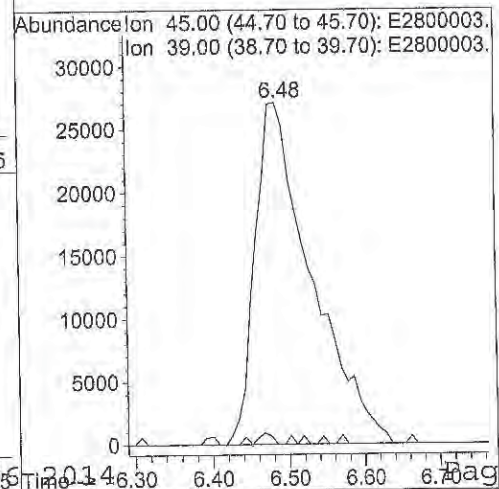
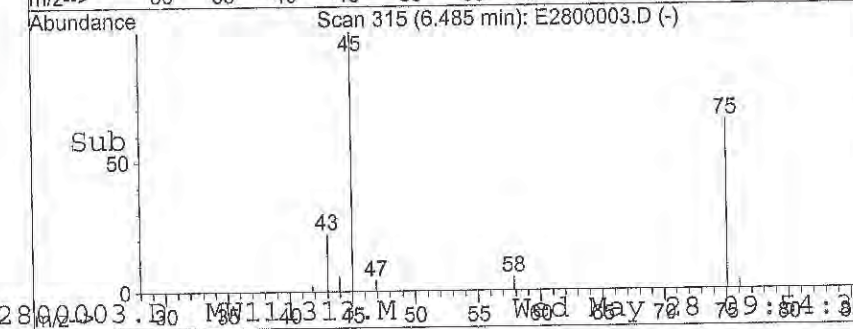
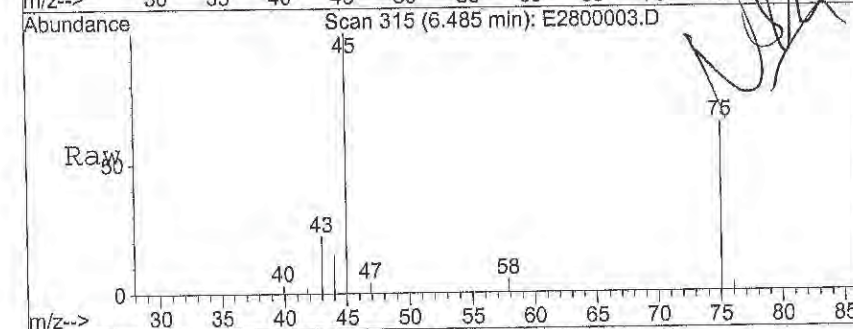
#11
Acetone
Concen: 6.58 ug/L
RT: 6.48 min Scan# 314
Delta R.T. 0.02 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am

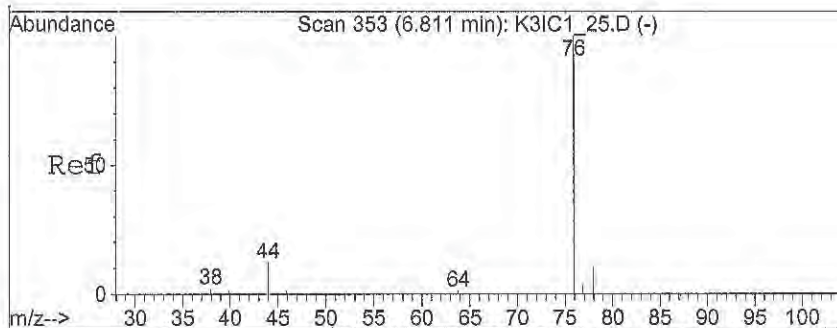
Tgt Ion: 58 Resp: 7290
Ion Ratio Lower Upper
58 100
43 426.7 360.9 541.3



#12
(IPA) Leak Check Compound
Concen: 699.68 ug/L
RT: 6.48 min Scan# 315
Delta R.T. -0.06 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am

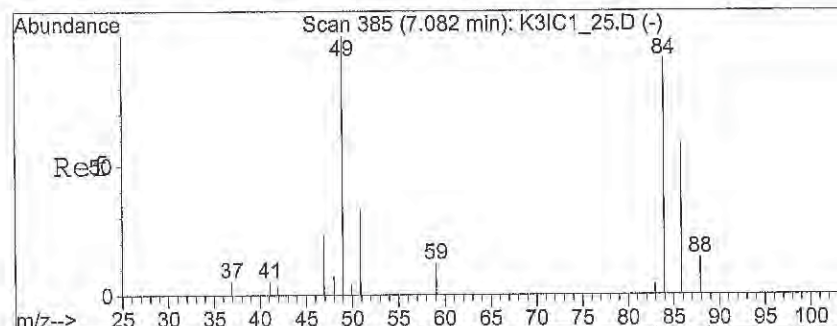
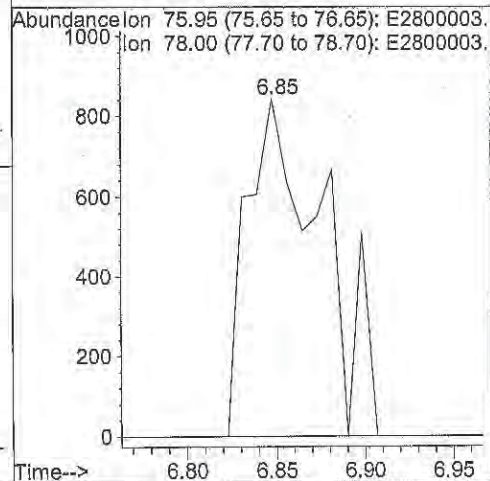
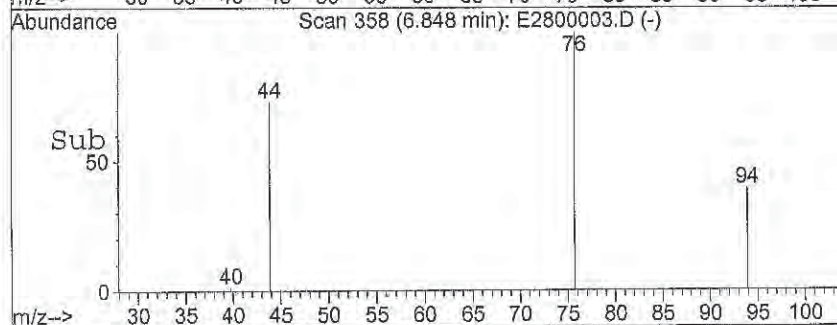
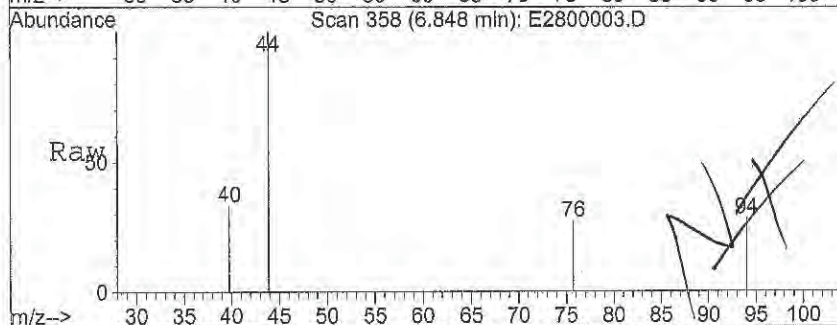
Tgt Ion: 45 Resp: 138535
Ion Ratio Lower Upper
45 100
39 0.5 4.9 7.3#





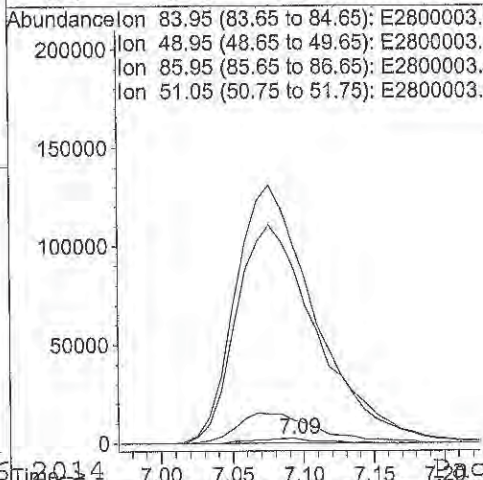
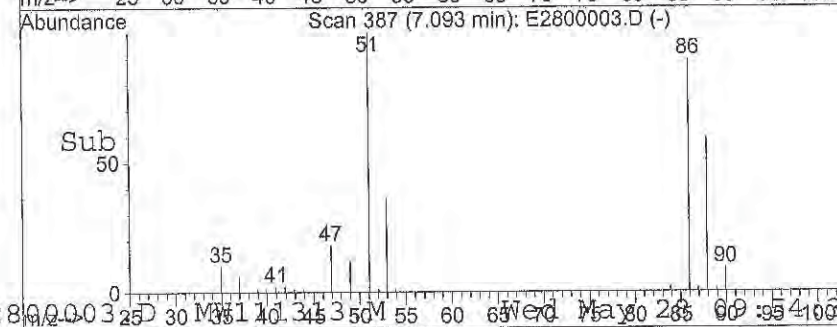
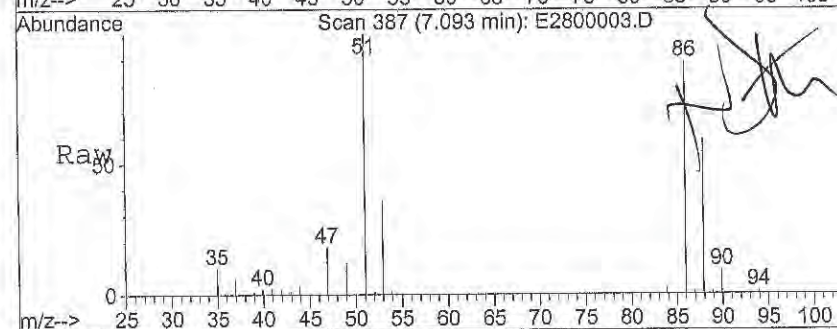
#13
Carbon disulfide
Concen: 0.18 ug/L
RT: 6.85 min Scan# 358
Delta R.T. 0.04 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am

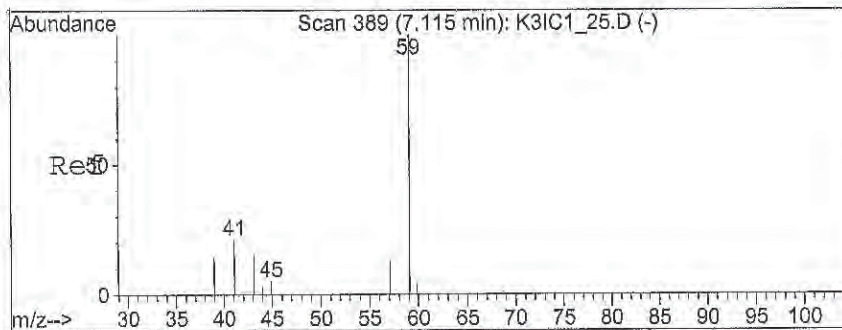
Tgt Ion: 76 Resp: 2497
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#14
Methylene Chloride
Concen: 1.58 ug/L
RT: 7.09 min Scan# 387
Delta R.T. 0.01 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am

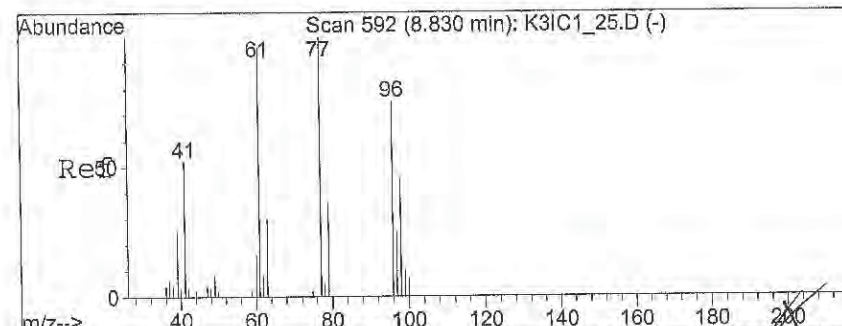
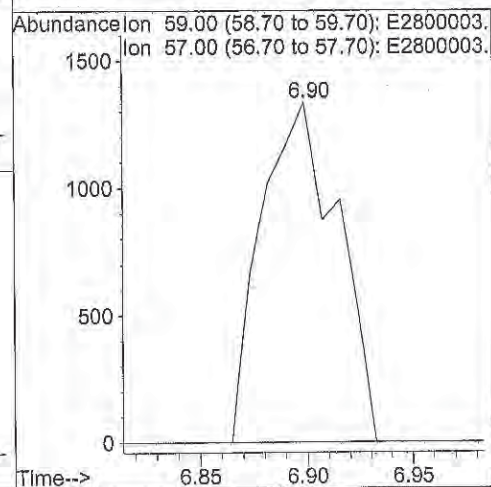
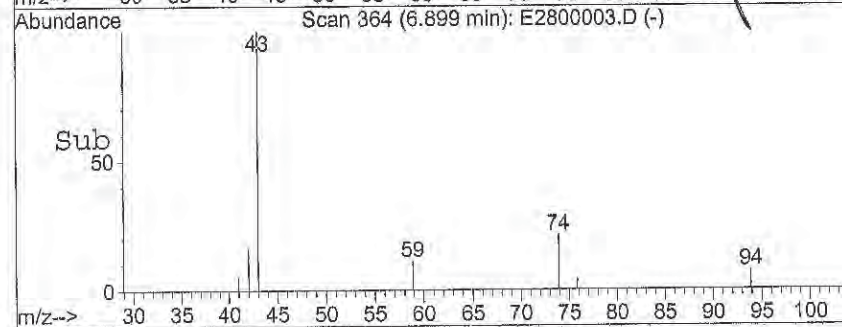
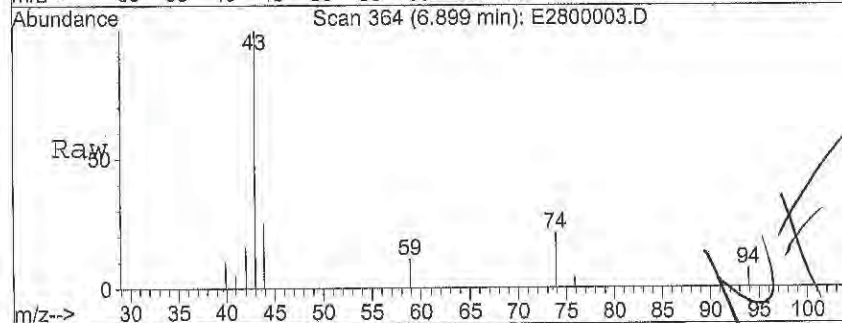
Tgt Ion: 84 Resp: 7137
Ion Ratio Lower Upper
84 100
49 0.0 89.8 134.6#
86 0.0 51.1 76.7#
51 0.0 28.5 42.7#





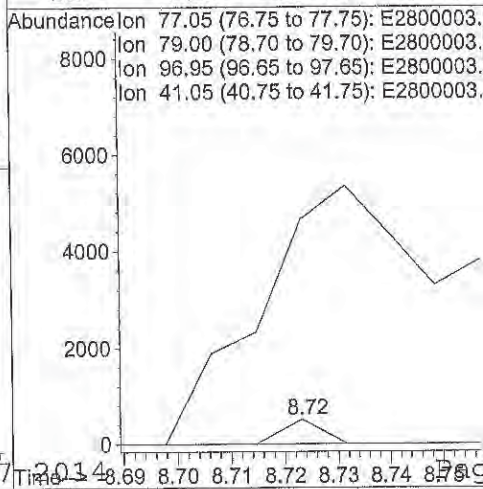
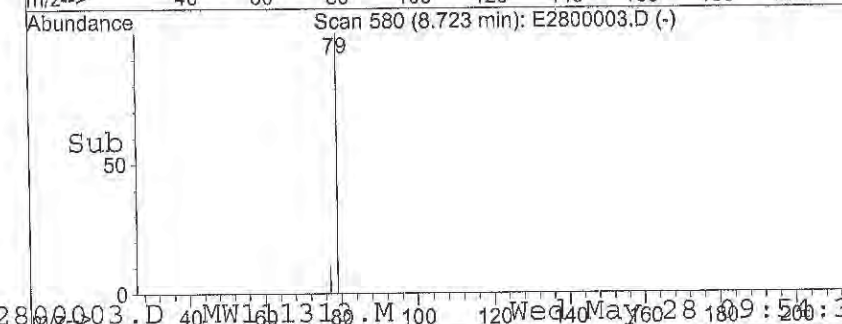
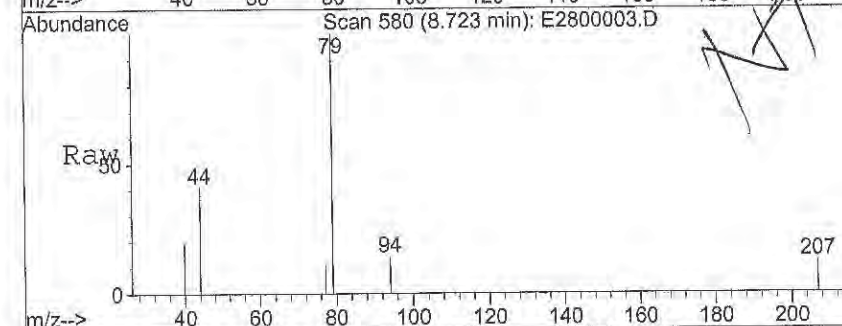
#15
 (TBA) tert-Butanol
 Concen: 11.78 ug/L
 RT: 6.90 min Scan# 364
 Delta R.T. -0.22 min
 Lab File: E2800003.D
 Acq: 28 May 2014 9:20 am

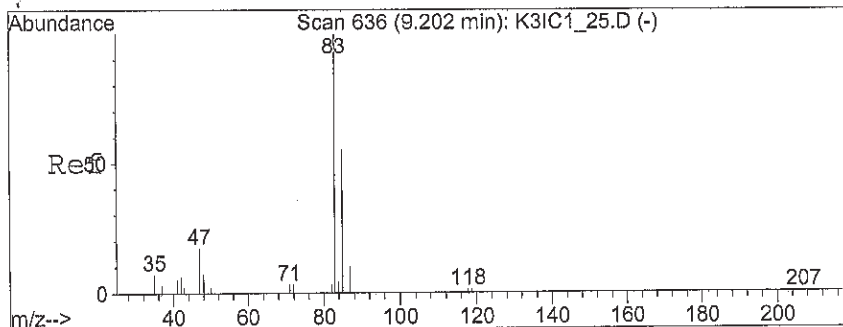
Tgt Ion: 59 Resp: 3310
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#20
 2,2-Dichloropropane
 Concen: 0.04 ug/L
 RT: 8.72 min Scan# 580
 Delta R.T. -0.11 min
 Lab File: E2800003.D
 Acq: 28 May 2014 9:20 am

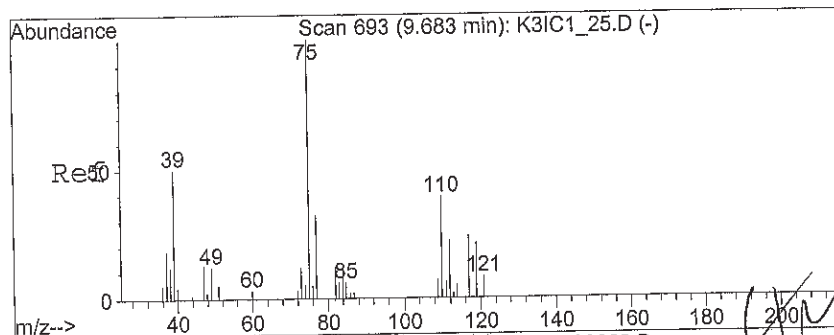
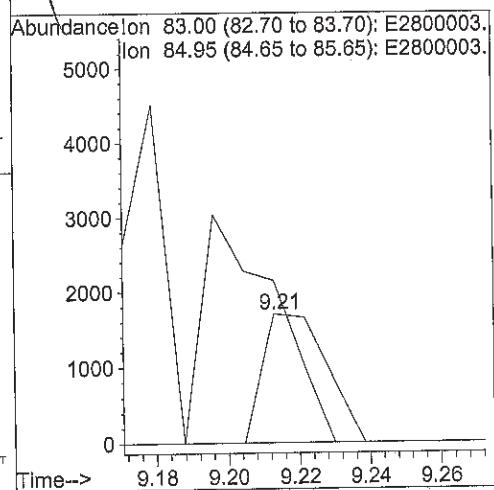
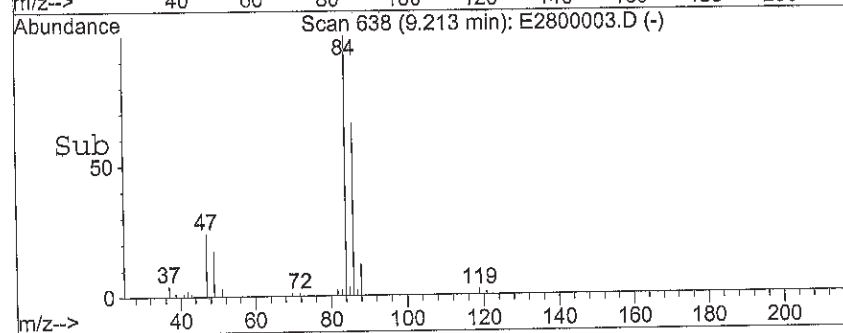
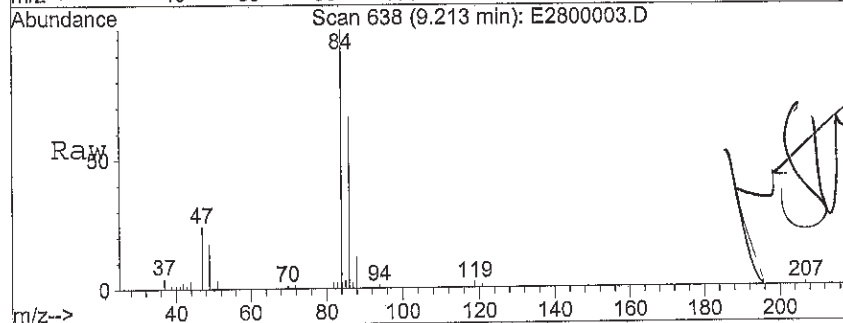
Tgt Ion: 77 Resp: 259
 Ion Ratio Lower Upper
 77 100
 79 6874.9 26.6 40.0#
 97 0.0 18.9 28.3#
 41 0.0 42.6 64.0#





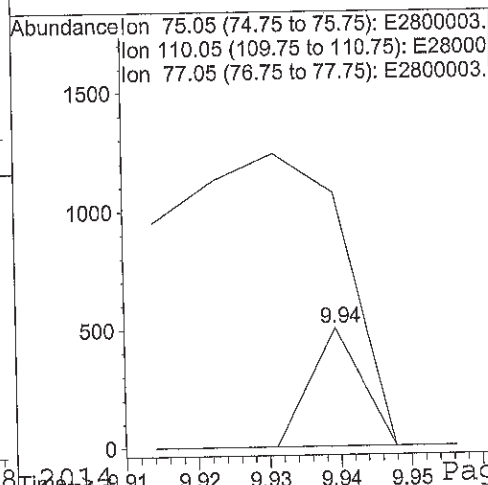
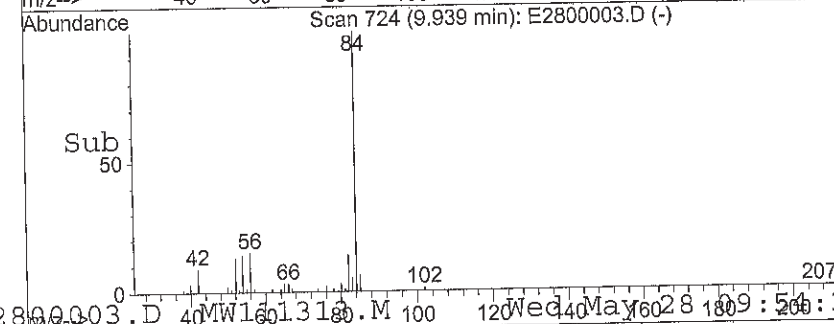
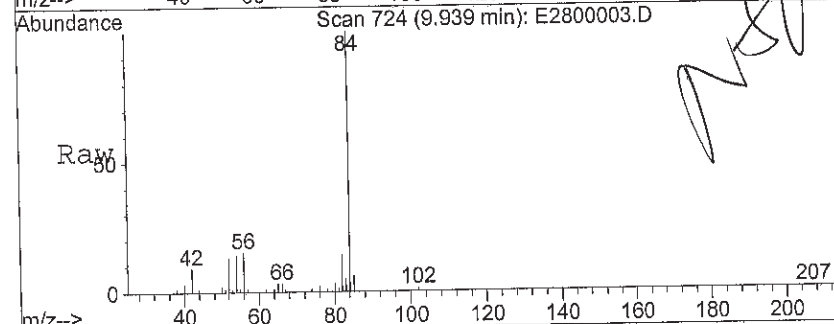
#24
Chloroform
Concen: 0.24 ug/L
RT: 9.21 min Scan# 638
Delta R.T. 0.01 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am

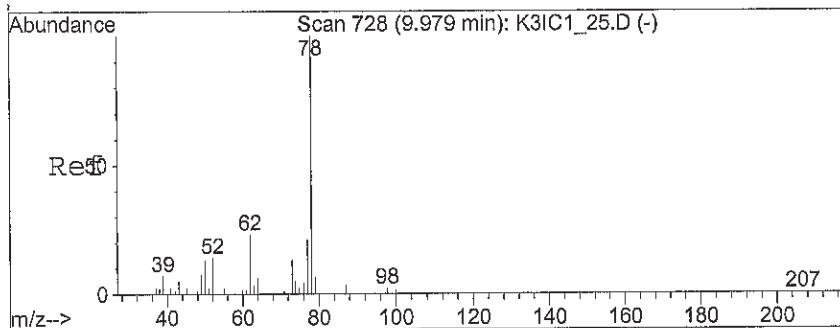
Tgt Ion: 83 Resp: 2106
Ion Ratio Lower Upper
83 100
85 203.6 51.8 77.6#



#29
1,1-Dichloropropene
Concen: 0.04 ug/L
RT: 9.94 min Scan# 724
Delta R.T. 0.26 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am

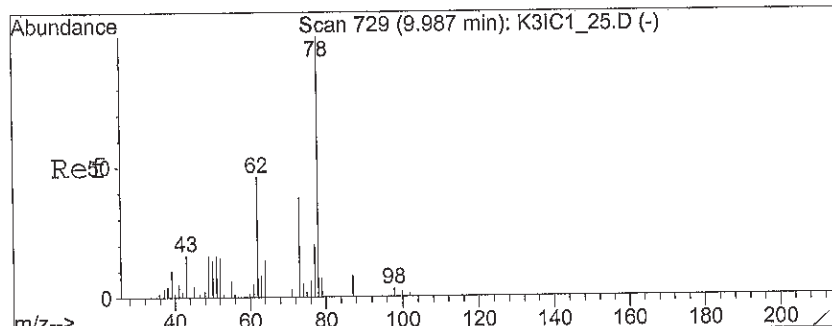
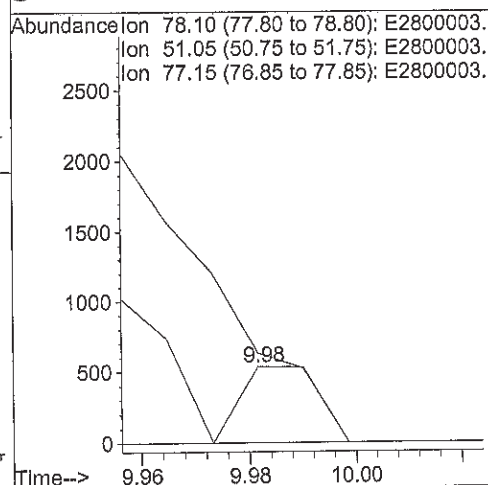
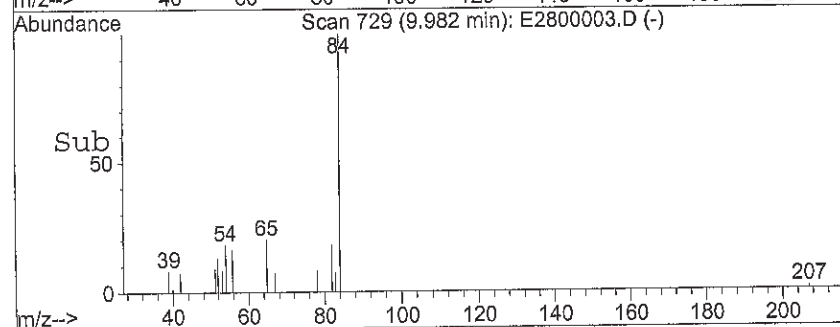
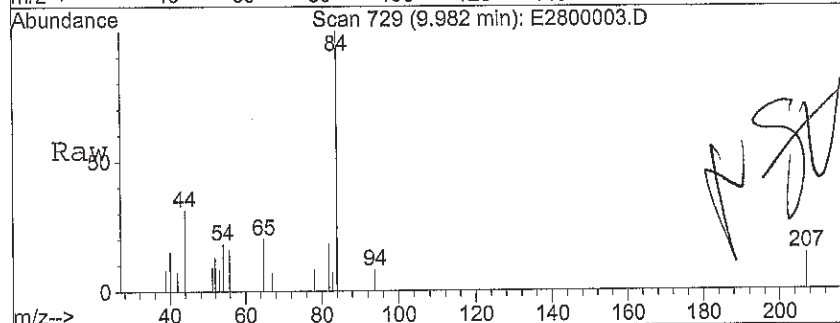
Tgt Ion: 75 Resp: 254
Ion Ratio Lower Upper
75 100
110 0.0 29.0 43.6#
77 1151.6 25.0 37.4#





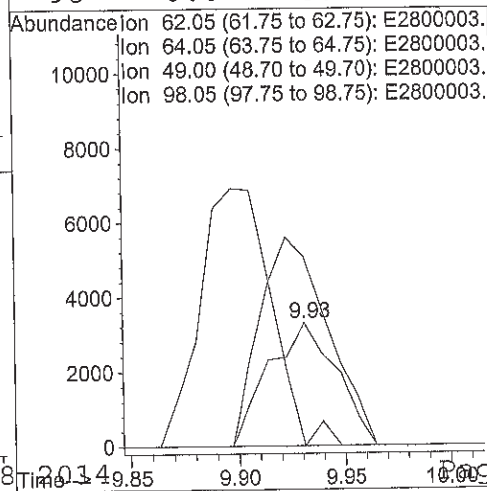
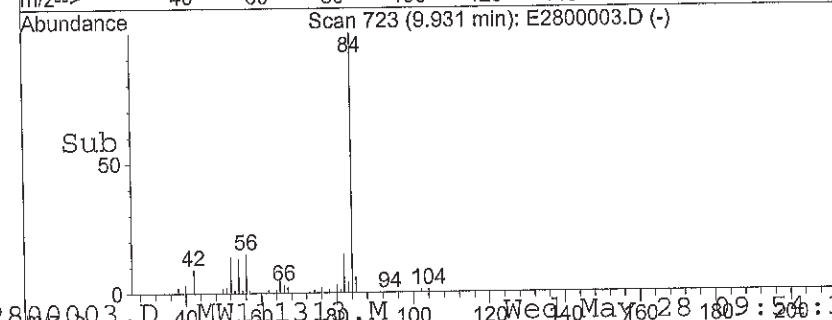
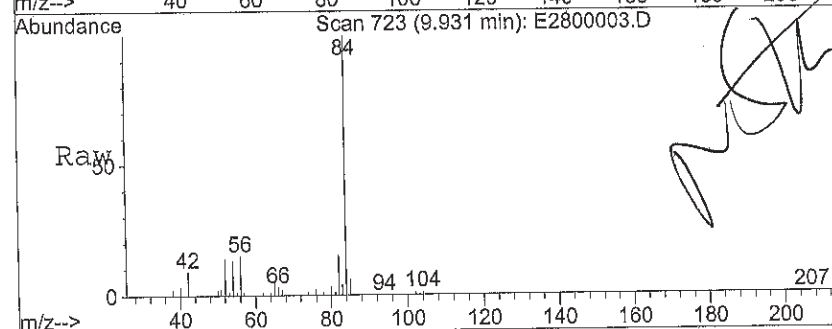
#31
Benzene
Concen: 0.03 ug/L
RT: 9.98 min Scan# 729
Delta R.T. 0.00 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am

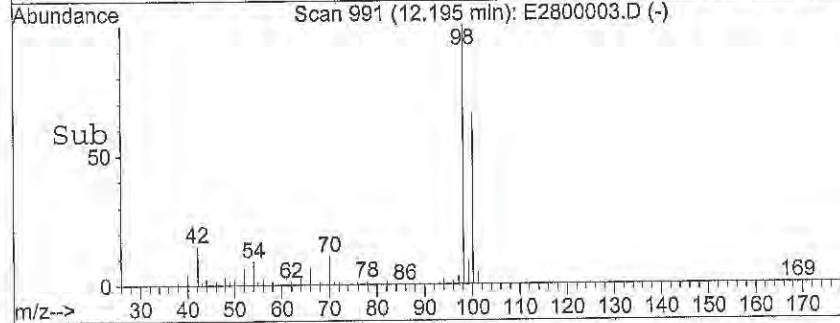
Tgt Ion: 78 Resp: 539
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 0.0 16.6 24.8#



#32
1,2-Dichloroethane
Concen: 1.33 ug/L
RT: 9.93 min Scan# 723
Delta R.T. -0.06 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am

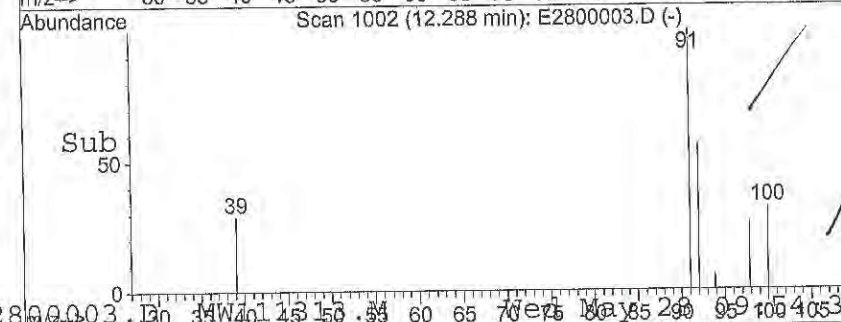
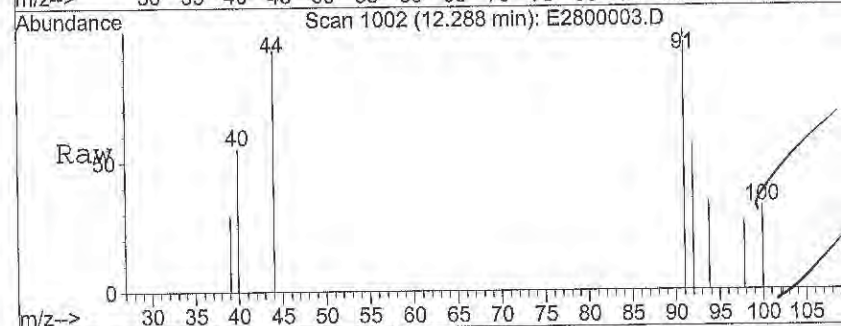
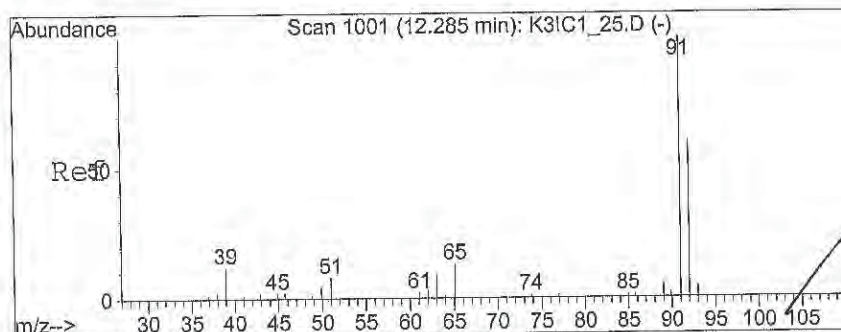
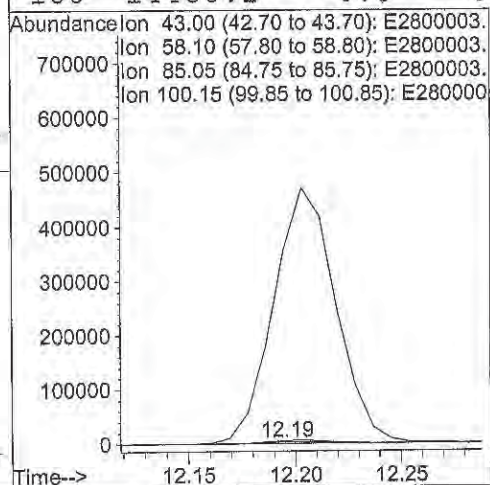
Tgt Ion: 62 Resp: 7312
Ion Ratio Lower Upper
62 100
64 170.1 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#





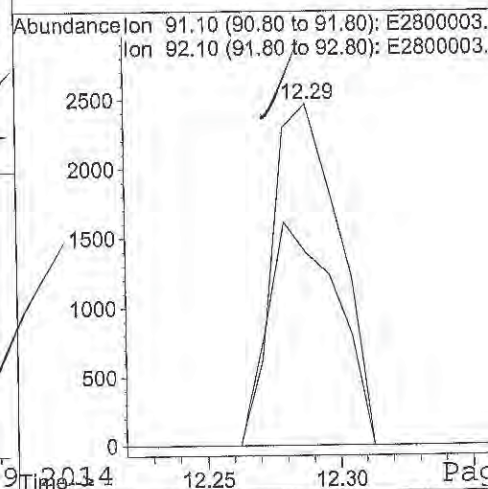
#40
(MIBK) 4-Methyl-2-Pentanone
Concen: 2.60 ug/L
RT: 12.19 min Scan# 991
Delta R.T. 0.08 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am

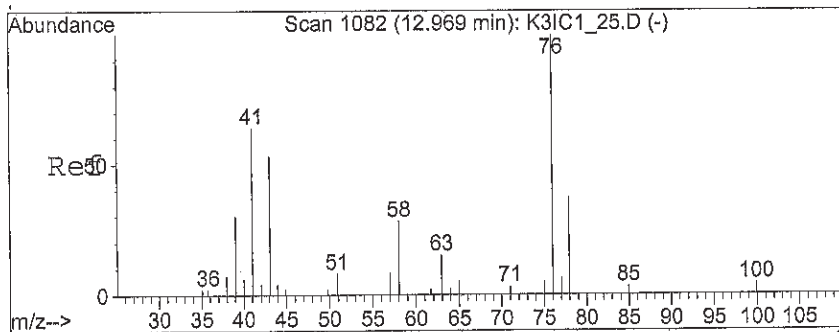
Tgt	Ion: 43	Resp:	6600
Ion	Ratio	Lower	Upper
43	100		
58	166.0	0.0	0.0#
85	0.0	0.0	0.0
100	14460.1	0.0	0.0#



```
#41
Toluene
Concen: 0.25 ug/L
RT: 12.29 min Scan# 1002
Delta R.T. 0.00 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am
```

Tgt Ion: 91	Resp:	4279	
Ion Ratio	Lower	Upper	
91	100		
92	68.3	47.4	71.0





#46

2-Hexanone

Concen: 0.56 ug/L

RT: 12.93 min Scan# 1078

Delta R.T. -0.04 min

Lab File: E2800003.D

Acq: 28 May 2014 9:20 am

Tgt Ion: 43 Resp: 1553

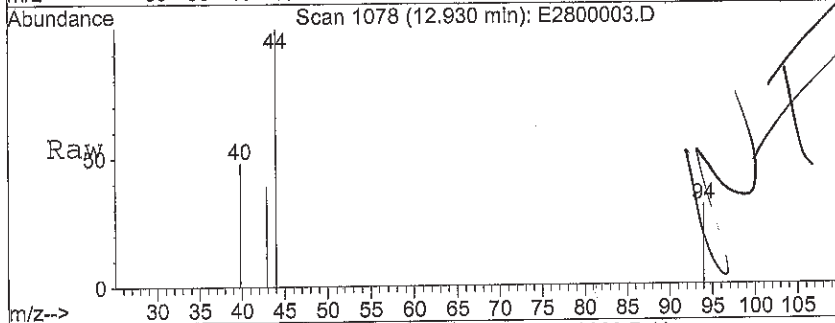
Ion Ratio Lower Upper

43 100

58 0.0 40.9 61.3#

100 0.0 5.5 8.3#

85 0.0 4.3 6.5#



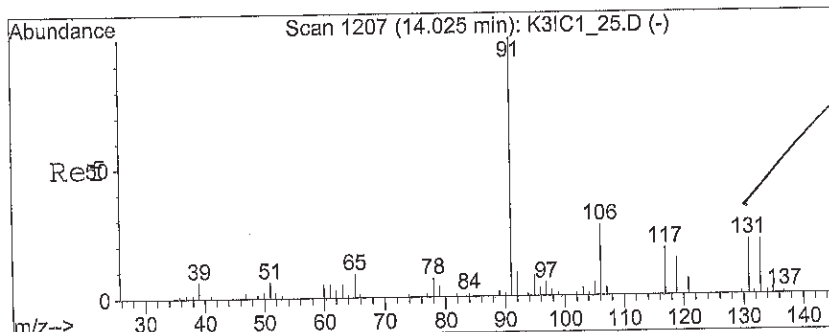
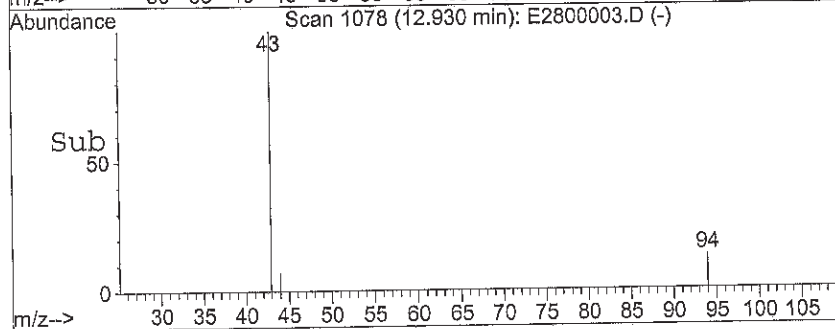
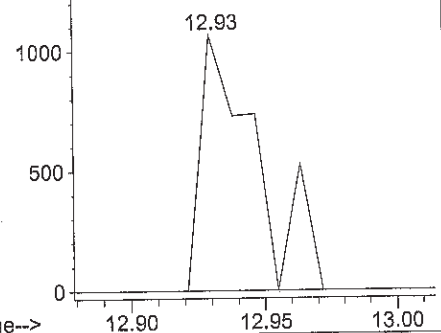
Abundance

Ion 43.00 (42.70 to 43.70): E2800003.

Ion 58.10 (57.80 to 58.80): E2800003.

Ion 100.15 (99.85 to 100.85): E2800003.

Ion 85.05 (84.75 to 85.75): E2800003.



#51

Ethylbenzene

Concen: 0.16 ug/L

RT: 14.02 min Scan# 1207

Delta R.T. -0.01 min

Lab File: E2800003.D

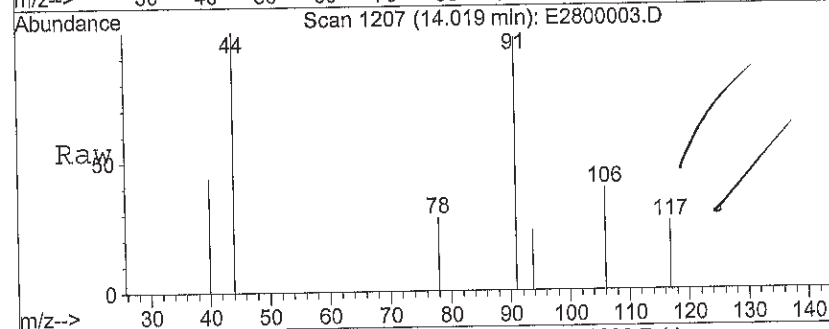
Acq: 28 May 2014 9:20 am

Tgt Ion: 91 Resp: 3080

Ion Ratio Lower Upper

91 100

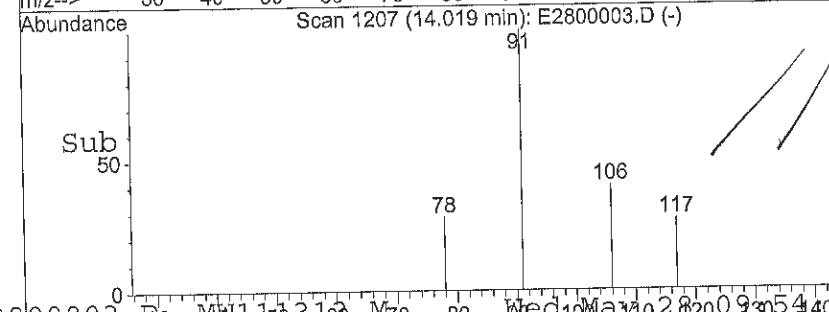
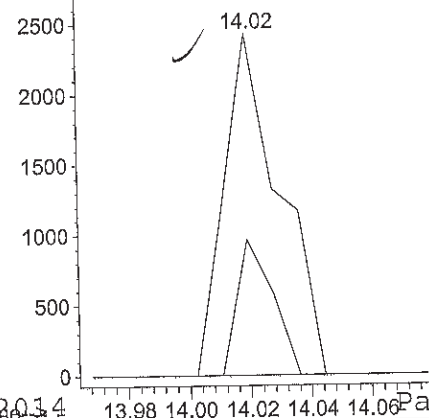
106 25.5 23.5 35.3

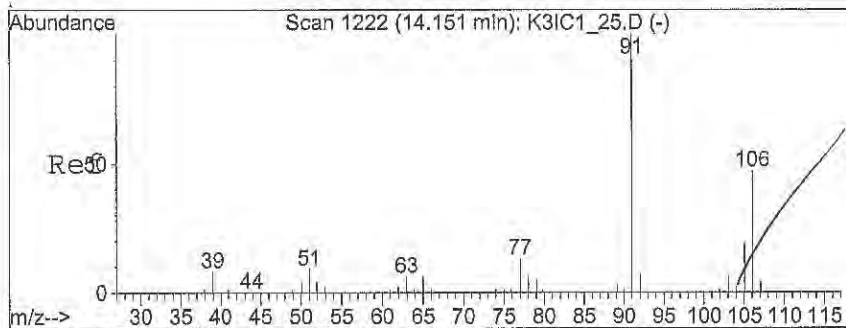


Abundance

Ion 91.10 (90.80 to 91.80): E2800003.

Ion 106.20 (105.90 to 106.90): E2800003.





#52

m,p-Xylenes

Concen: 0.28 ug/L

RT: 14.15 min Scan# 1222

Delta R.T. -0.01 min

Lab File: E2800003.D

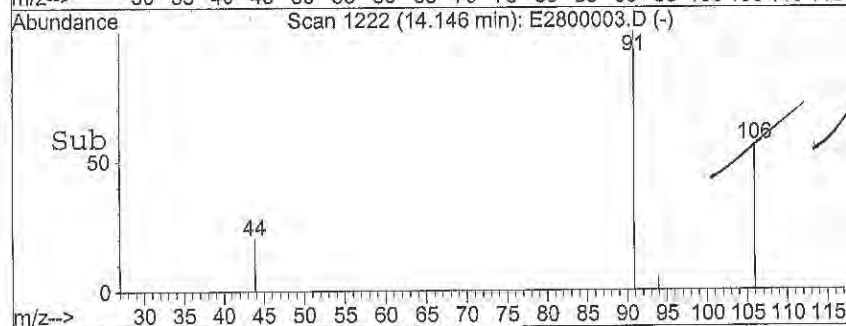
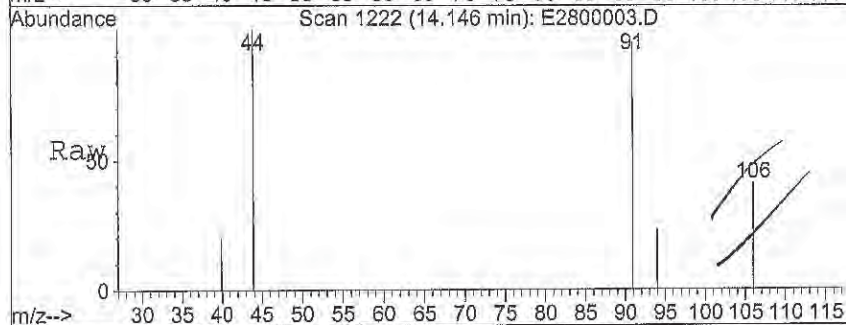
Acq: 28 May 2014 9:20 am

Tgt Ion:106 Resp: 1929

Ion Ratio Lower Upper

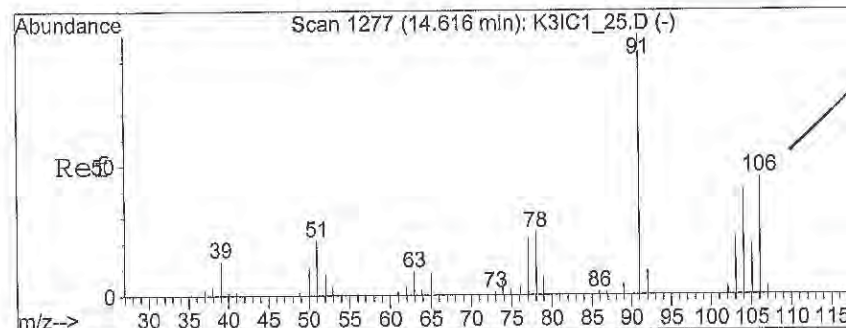
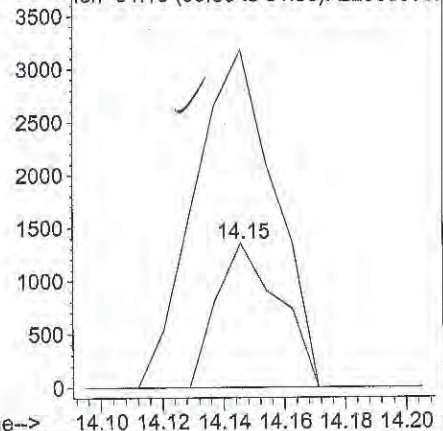
106 100

91 301.0 177.1 265.7#



Abundance Ion 106.10 (105.80 to 106.80): E2800003.D

Ion 91.10 (90.80 to 91.80): E2800003.D



#53

o-Xylene

Concen: 0.04 ug/L

RT: 14.63 min Scan# 1279

Delta R.T. 0.01 min

Lab File: E2800003.D

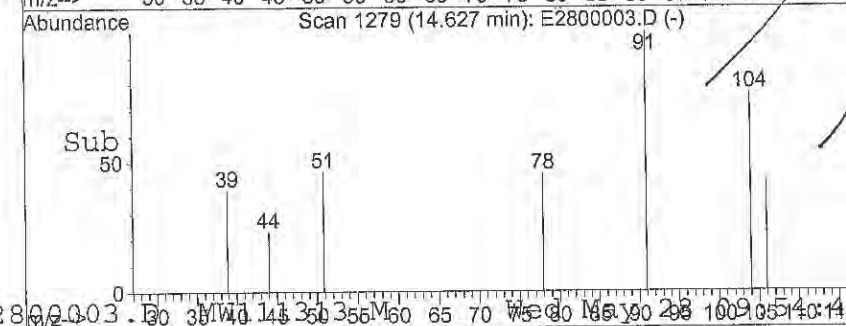
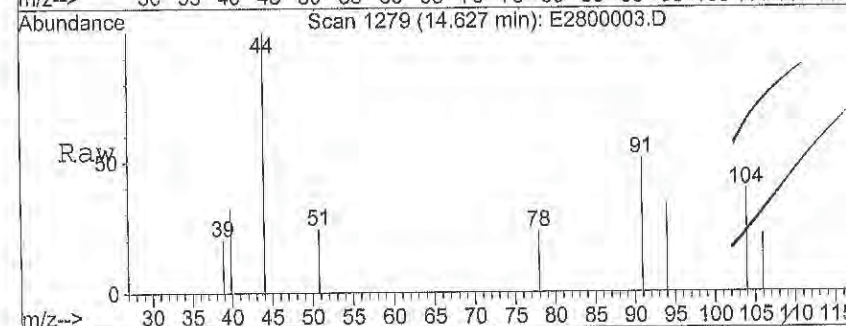
Acq: 28 May 2014 9:20 am

Tgt Ion:106 Resp: 280

Ion Ratio Lower Upper

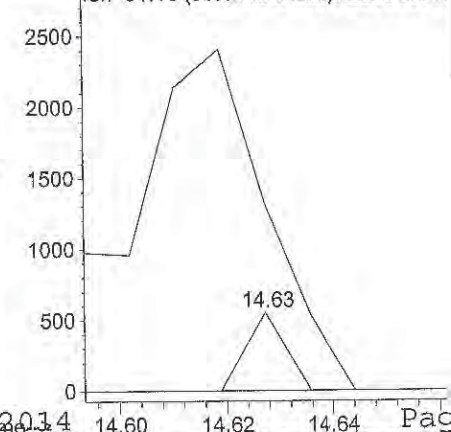
106 100

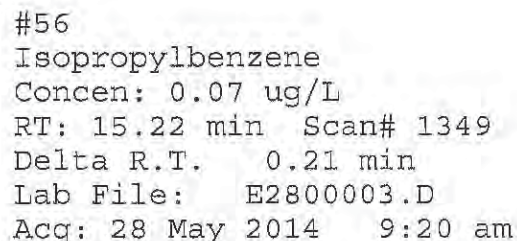
91 1509.3 172.0 268.6#



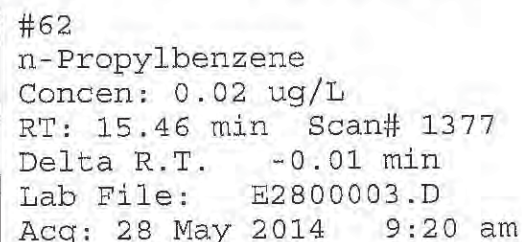
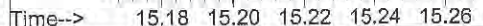
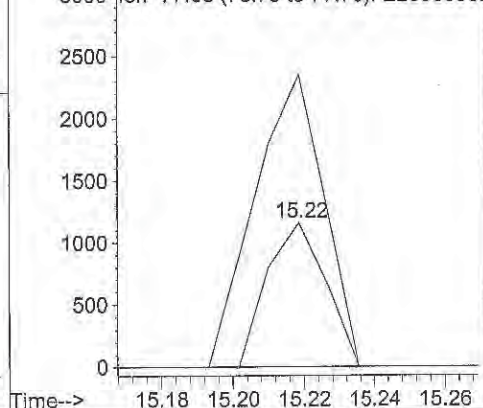
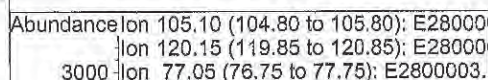
Abundance Ion 106.20 (105.90 to 106.90): E2800003.D

Ion 91.10 (90.80 to 91.80): E2800003.D

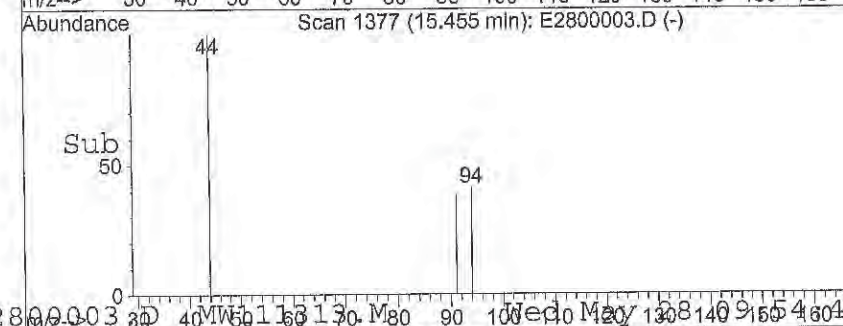
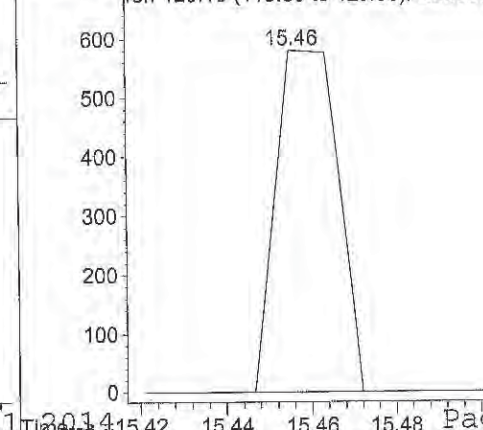
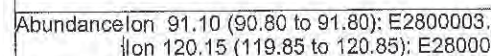


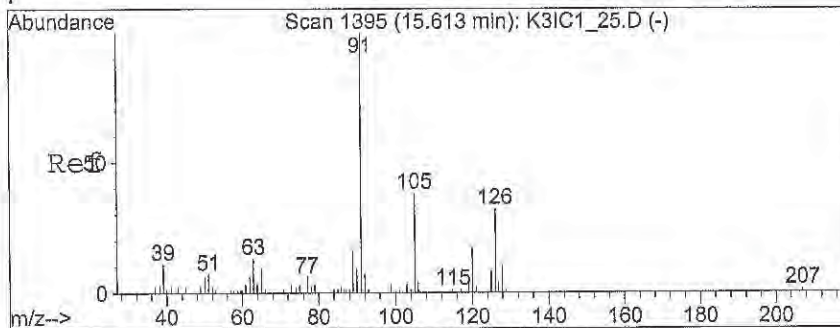


Tgt	Ion:105	Resp:	1317
Ion	Ratio	Lower	Upper
105	100		
120	0.0	19.3	28.9#
77	240.2	13.1	19.7#



Tgt	Ion: 91	Resp:	587
	Ratio	Lower	Upper
91	100		
120	0.0	16.1	24.1#





#63

2-Chlorotoluene

Concen: 0.03 ug/L

RT: 15.46 min Scan# 1377

Delta R.T. -0.16 min

Lab File: E2800003.D

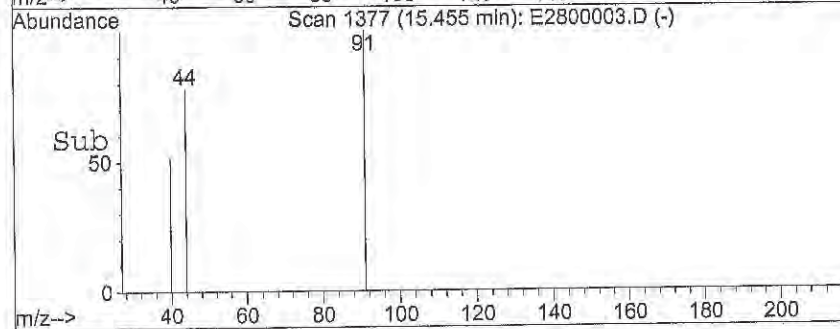
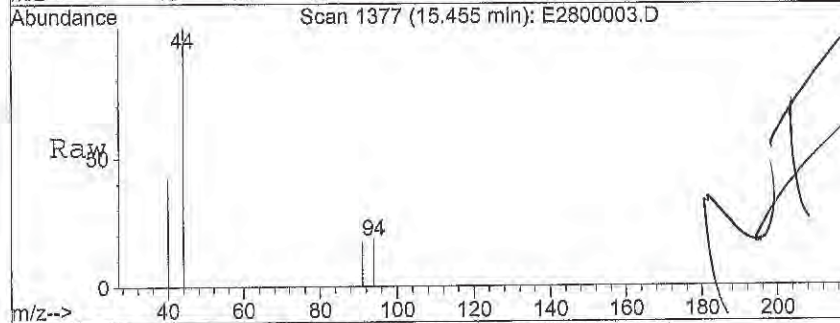
Acq: 28 May 2014 9:20 am

Tgt Ion: 91 Resp: 587

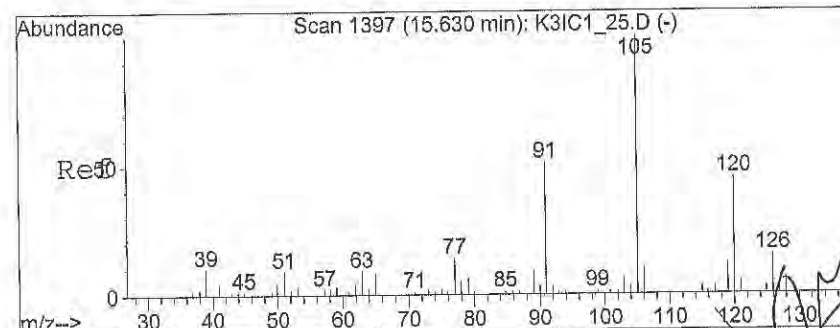
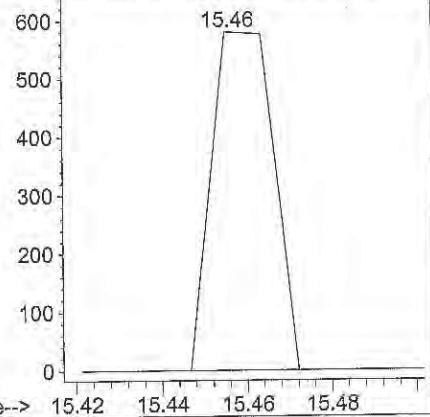
Ion Ratio Lower Upper

91 100

126 0.0 24.0 36.0#



Abundance Ion 91.10 (90.80 to 91.80): E2800003.
Ion 126.10 (125.80 to 126.80): E2800003.



#64

1,3,5-Trimethylbenzene

Concen: 0.03 ug/L

RT: 15.54 min Scan# 1387

Delta R.T. -0.09 min

Lab File: E2800003.D

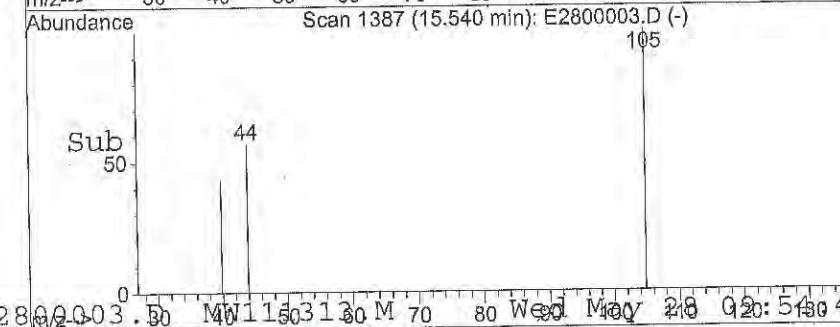
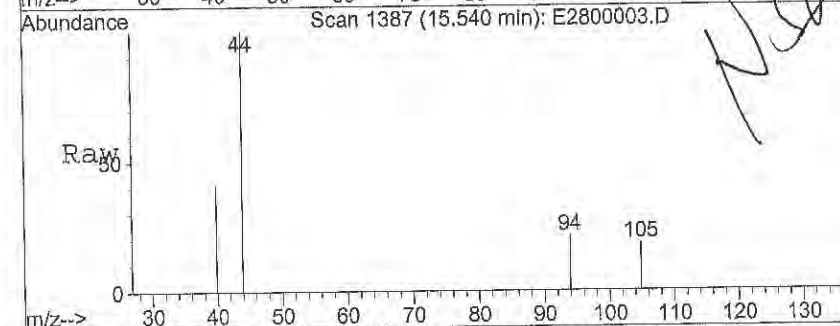
Acq: 28 May 2014 9:20 am

Tgt Ion: 105 Resp: 541

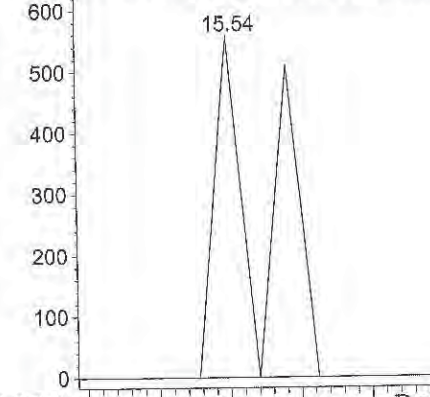
Ion Ratio Lower Upper

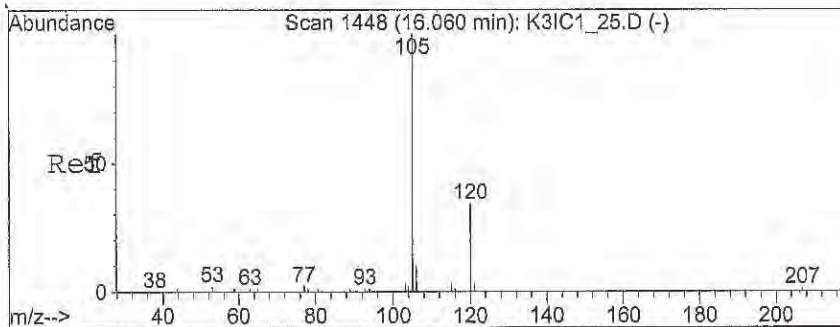
105 100

120 0.0 36.4 54.6#



Abundance Ion 105.10 (104.80 to 105.80): E2800003.
Ion 120.15 (119.85 to 120.85): E2800003.





#67

1,2,4-Trimethylbenzene

Concen: 0.08 ug/L

RT: 16.05 min Scan# 1448

Delta R.T. -0.01 min

Lab File: E2800003.D

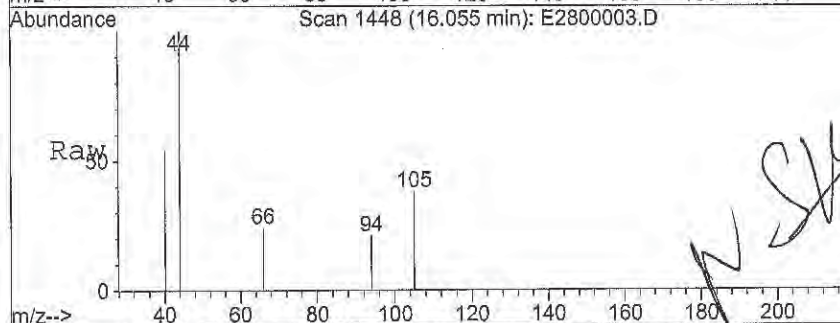
Acq: 28 May 2014 9:20 am

Tgt Ion:105 Resp: 1414

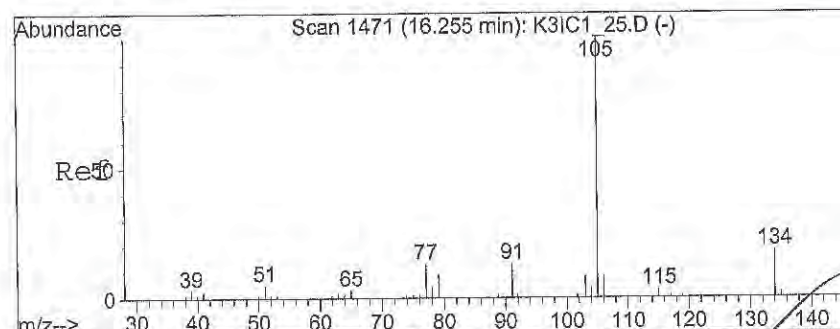
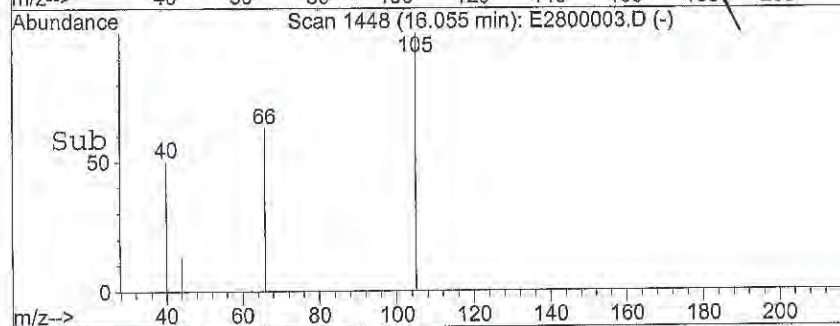
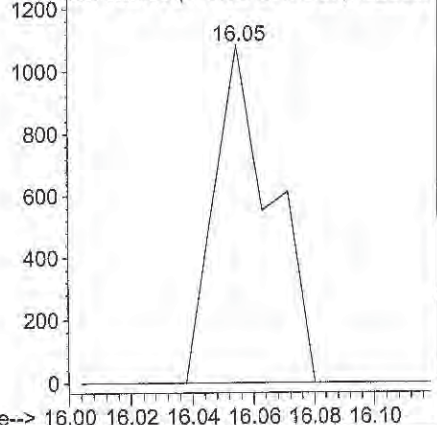
Ion Ratio Lower Upper

105 100

120 0.0 33.8 50.8#



Abundance Ion 105.10 (104.80 to 105.80): E280000
Ion 120.15 (119.85 to 120.85): E280000



#68

sec-Butylbenzene

Concen: 0.09 ug/L

RT: 16.33 min Scan# 1480

Delta R.T. 0.07 min

Lab File: E2800003.D

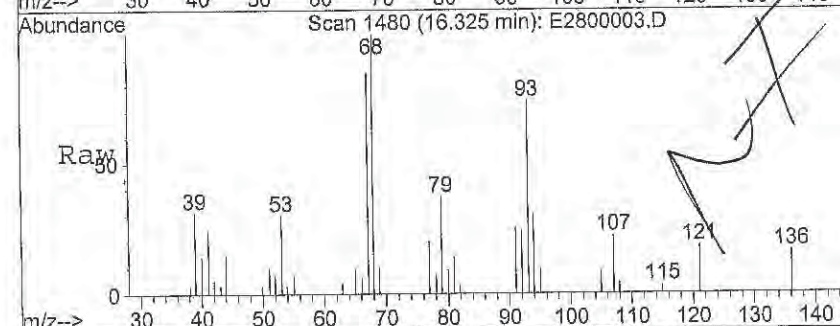
Acq: 28 May 2014 9:20 am

Tgt Ion:105 Resp: 2000

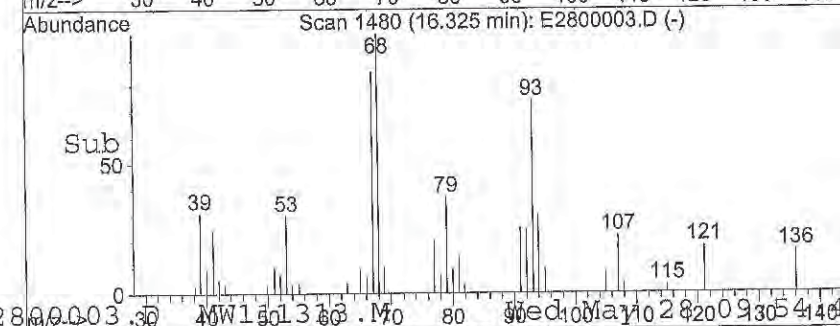
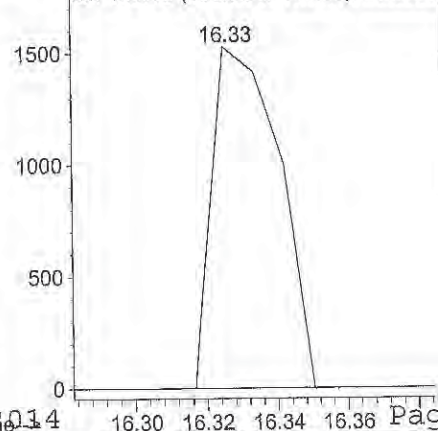
Ion Ratio Lower Upper

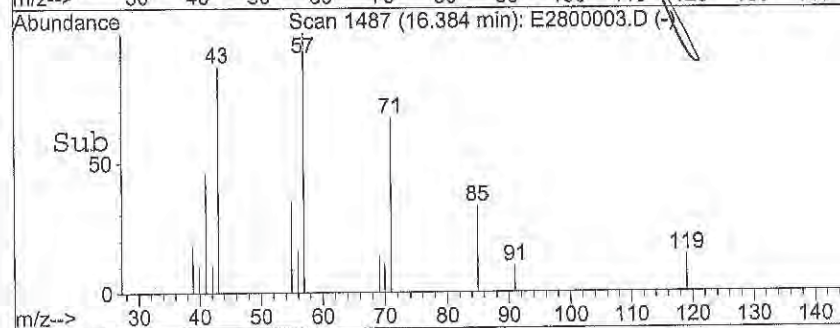
105 100

134 0.0 13.0 19.6#



Abundance Ion 105.10 (104.80 to 105.80): E280000
Ion 134.15 (133.85 to 134.85): E280000





#69

p-Isopropyltoluene

Concen: 0.04 ug/L

RT: 16.38 min Scan# 1487

Delta R.T. 0.00 min

Lab File: E2800003.D

Acq: 28 May 2014 9:20 am

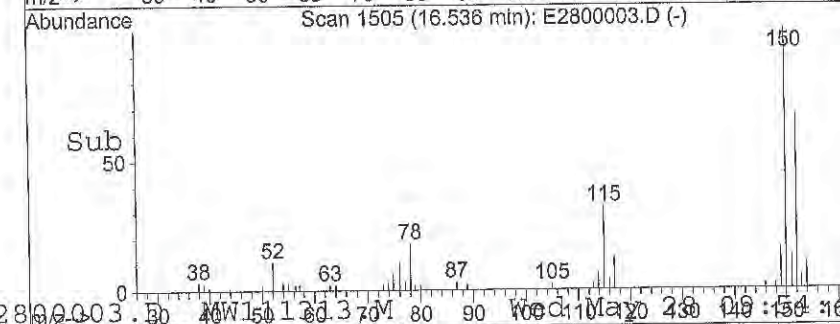
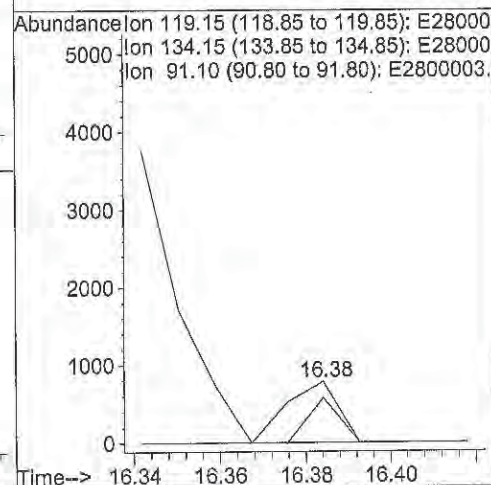
Tgt Ion:119 Resp: 656

Ion	Ratio	Lower	Upper
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119 100

134	0.0	17.4	26.2#
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91	0.0	19.6	29.4#
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#70

1,3-Dichlorobenzene

Concen: 0.03 $\mu\text{g/L}$

RT: 16.54 min Scan# 1505

Delta R.T. / 0.09 min

Lab File: E28000003.D

Acq: 28 May 2014 9:20 am

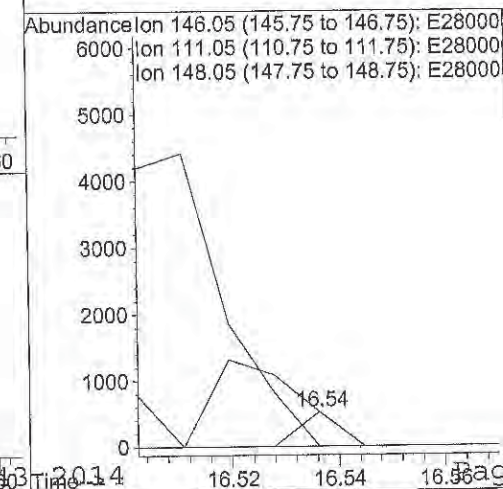
Tgt Ion:146 Resp: 267

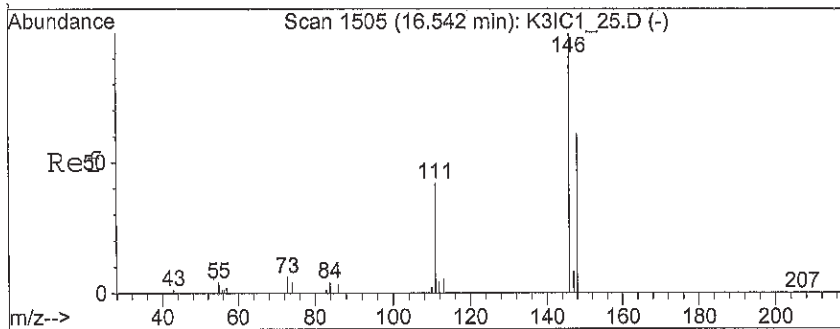
Ion	Ratio	Lower	Upper
-----	-------	-------	-------

146	100
-----	-----

1111	0.0	34.2	51.4#
------	-----	------	-------

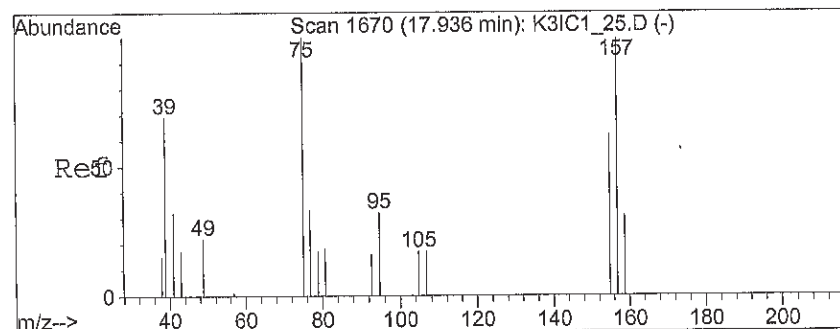
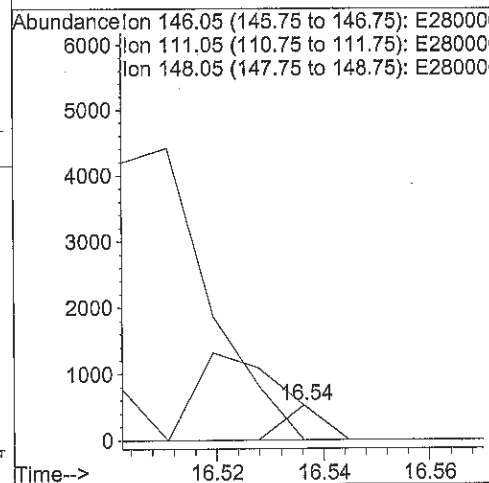
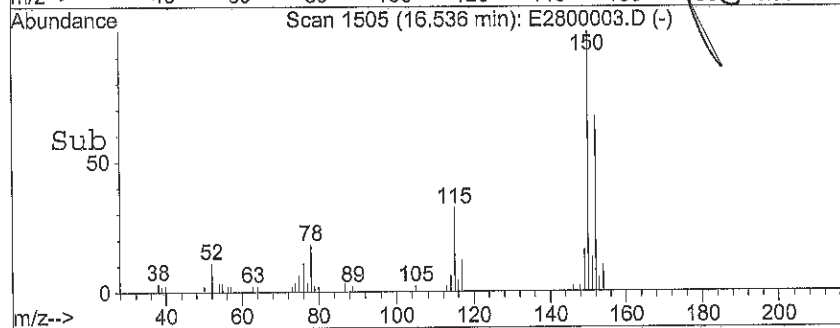
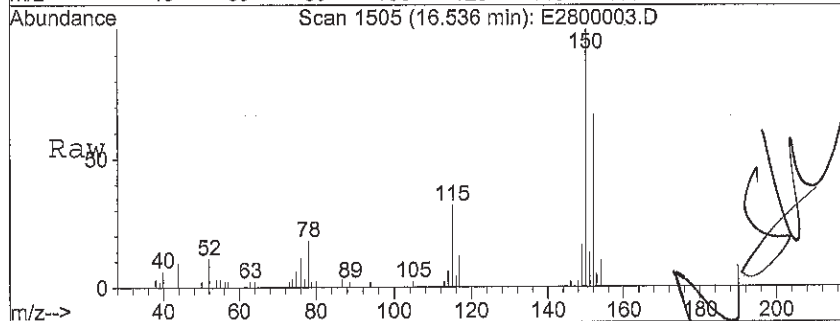
148	0.0	50.9	76.3#
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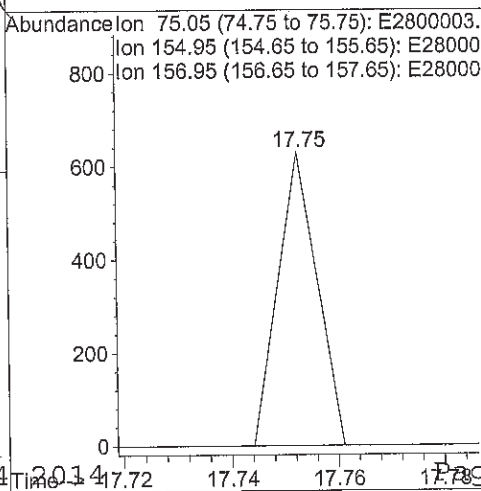
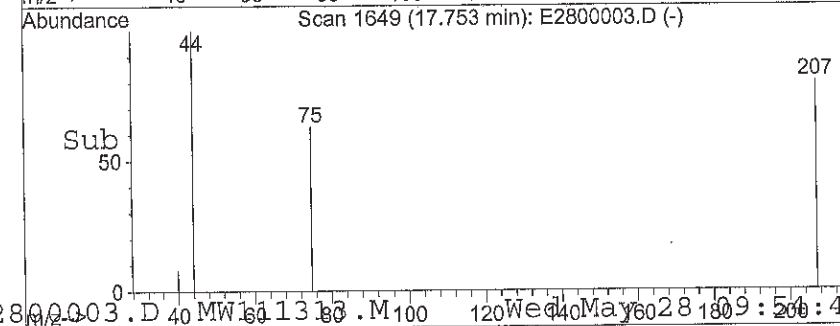
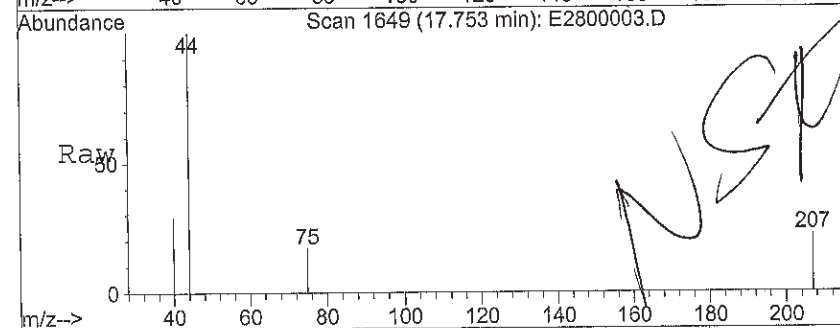
#71
1,4-Dichlorobenzene
Concen: 0.03 ug/L
RT: 16.54 min Scan# 1505
Delta R.T. -0.01 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am

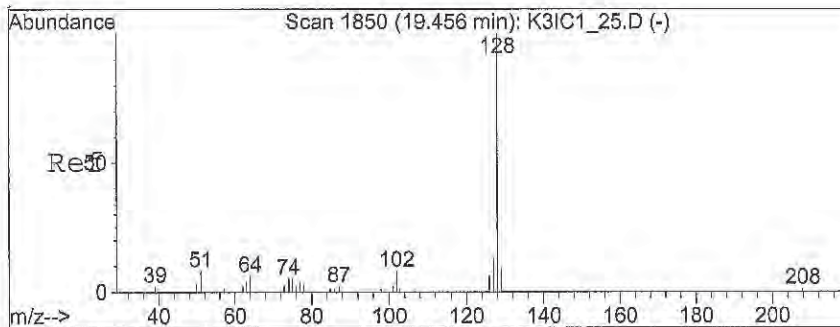
Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	37.6	56.4#
148	0.0	52.6	78.8#



#74
1,2-Dibromo-3-chloropropane
Concen: 1.29 ug/L
RT: 17.75 min Scan# 1649
Delta R.T. -0.18 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am

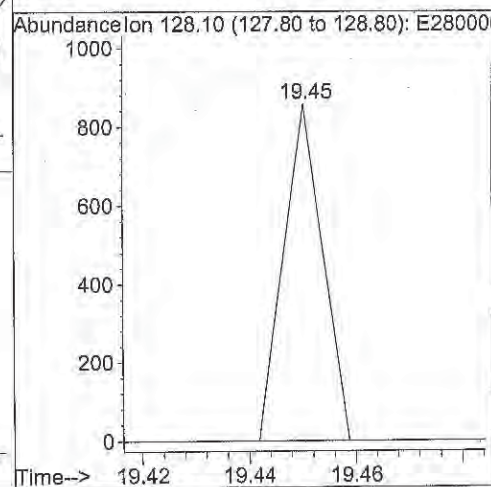
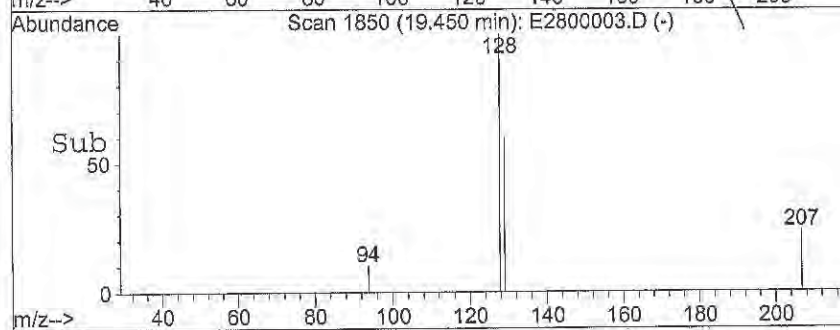
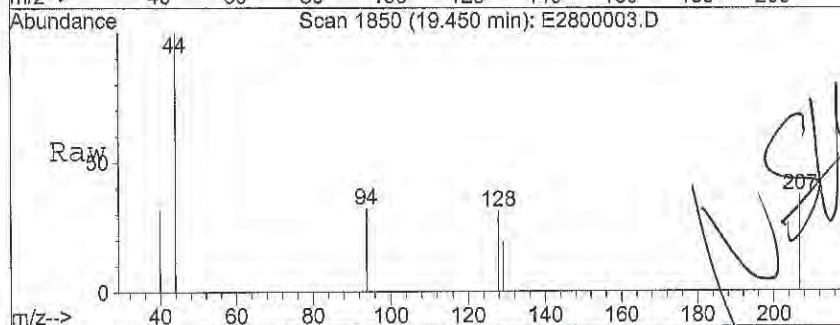
Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	59.2	88.8#
157	0.0	77.0	115.6#





#77
Naphthalene
Concen: 0.03 ug/L
RT: 19.45 min Scan# 1850
Delta R.T. -0.01 min
Lab File: E2800003.D
Acq: 28 May 2014 9:20 am

Tgt Ion:128 Resp: 436



Data File : C:\HPCHEM\1\DATA\052814L3\E2800003.D

Vial: 2

Acq On : 28 May 2014 9:20 am

Operator: DN

Sample : 34E2801-DUP1

Inst : GC/MS Ins

Misc : 100cc SVL-515-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 9:54 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1647725	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.92	117	1270840	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	683800	12.50	ug/L	-0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	467241	10.90	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	87.20%
3) Chloroform-d (SU6)	9.19	84	771632	12.55	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	100.40%
4) Methylene Chloride-d2 (SU5)	7.08	86	444290	12.36	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	98.88%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	459221	15.68	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	125.44%#
6) Benzene-d6 (SU7)	9.93	84	1476360	11.42	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	91.36%
8) Toluene-d8 (SU3)	12.20	98	1428098	11.84	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.72%
9) 4-Bromofluorobenzene (SU4)	15.22	95	705094	14.17	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	113.36%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2800003.D SS072713.M

Wed May 28 09:54:14 2014

Page 1

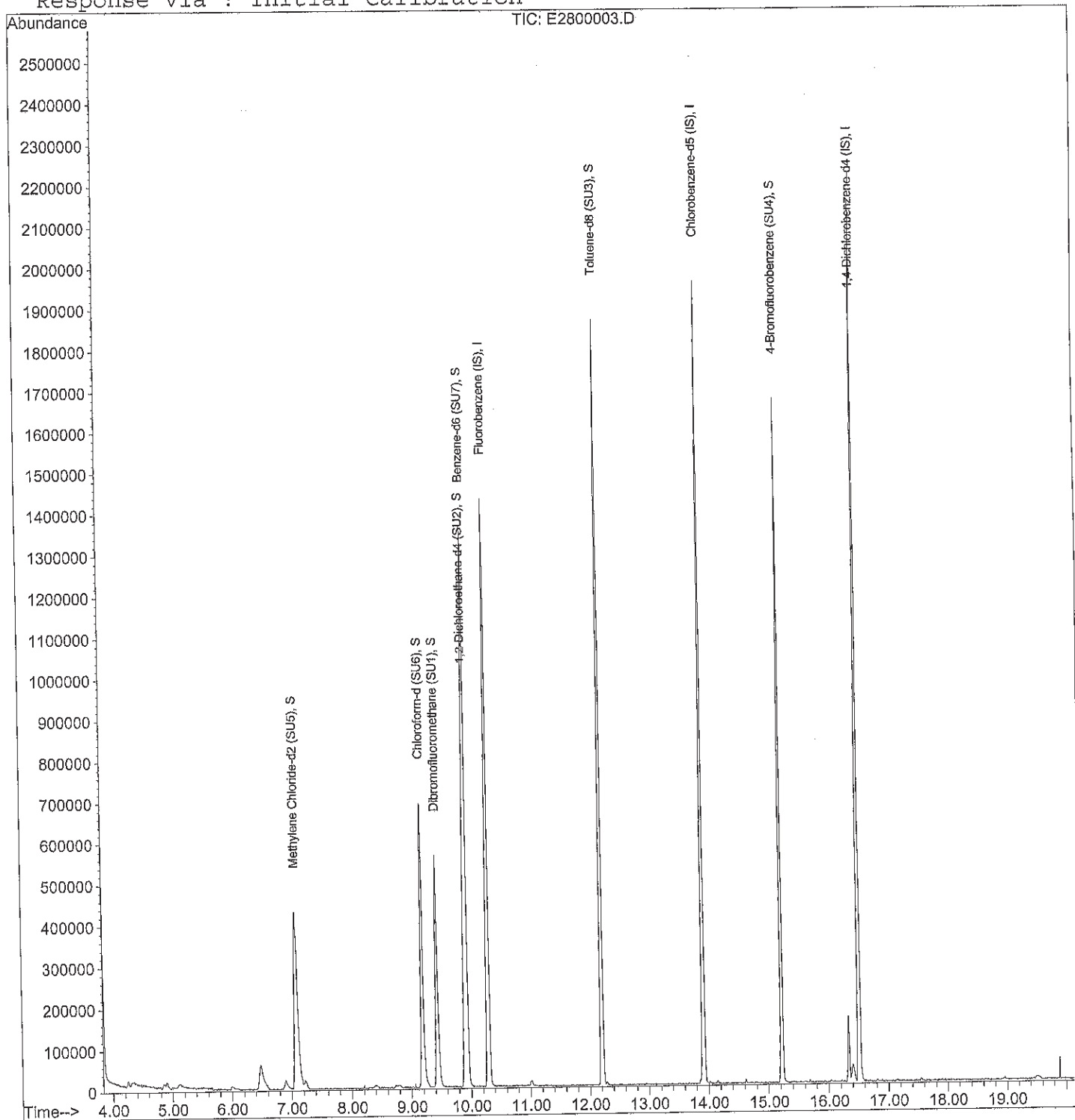
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800003.D
 Acq On : 28 May 2014 9:20 am
 Sample : 34E2801-DUP1
 Misc : 100cc SVL-515-SA5D-SV-5.0-6.0
 MS Integration Params: rteint.p
 Quant Time: May 28 9:54 19114

Vial: 2
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



**RAW DATA FOR QC SAMPLES AND INITIAL CALIBRATION
LABORATORY CONTROL SAMPLES**

Data File : C:\HPCHEM\1\DATA\052814L3\E28LCS01.D

Vial: 10

Acq On : 28 May 2014 6:28 am

Operator: DN

Sample : 34E2801-BS1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 28 7:05 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.30	96	1521673	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1091734	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.52	152	541503	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.45	113	427522	11.26	ug/L	0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	90.08%
28) 1,2-Dichloroethane-d4 (SU2)	9.91	65	429310	11.90	ug/L	0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.20%
39) Toluene-d8 (SU3)	12.22	98	1313190	12.90	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	103.20%
58) 4-Bromofluorobenzene (SU4)	15.22	95	565781	12.67	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	101.36%

Target Compounds

					Qvalue
3) (F12) Dichlorodifluorometh	4.11	85	51531	1.38 ug/L	96
4) Chloromethane	4.45	50	32449	1.15 ug/L	41
5) Vinyl Chloride	4.61	62	38058	1.42 ug/L	81
6) Bromomethane	5.14	96	24975	1.31 ug/L	99
7) Chloroethane	5.28	64	16993	1.43 ug/L	88
8) (F11) Trichlorofluorometha	5.67	101	59206	1.42 ug/L	91
9) (F113) 1,1,2-Trichloro-tri	6.38	151	38237	1.28 ug/L	97
10) 1,1-Dichloroethene	6.45	96	50573	1.41 ug/L	90
11) Acetone	6.46	58	49860	-12.50 ug/L	73
12) (IPA) Leak Check Compound	6.54	45	434841	237.81 ug/L	100
13) Carbon disulfide	6.87	76	144270	1.14 ug/L	100
14) Methylene Chloride	7.12	84	57184	1.37 ug/L	97
15) (TBA) tert-Butanol	7.11	59	9123	3.52 ug/L	96
16) (MTBE) Methyl-t-butyl ethe	7.42	73	121500	1.41 ug/L	97
17) trans-1,2-Dichloroethene	7.49	96	57431	1.40 ug/L	96
18) 1,1-Dichloroethane	8.08	63	80543	1.18 ug/L	98
19) cis-1,2-Dichloroethene	8.85	96	56496	1.19 ug/L	93
20) 2,2-Dichloropropane	8.84	77	673	0.01 ug/L #	1
21) (MEK) 2-Butanone	8.80	72	11356	2.65 ug/L #	52
22) (DIPE) Diisopropyl Ether	8.02	45	163308	1.37 ug/L	98
23) Bromochloromethane	9.18	128	23745	1.17 ug/L #	84
24) Chloroform	9.23	83	98332	1.23 ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052814L3\E28LCS01.D

Vial: 10

Acq On : 28 May 2014 6:28 am

Operator: DN

Sample : 34E2801-BS1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 28 7:05 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) (ETBE) 2-ethoxy 2-methyl p	8.51	59	114728	1.04	ug/L #	99
26) 1,1,1-Trichloroethane	9.51	97	72777	1.16	ug/L	95
27) (TAME) tert-Amyl methyl et	10.01	73	103114	1.08	ug/L	95
29) 1,1-Dichloropropene	9.70	75	70687	1.20	ug/L	97
30) Carbon Tetrachloride	13.90	117	58555	1.14	ug/L	97
31) Benzene	9.99	78	181411	1.27	ug/L	96
32) 1,2-Dichloroethane	10.00	62	58990	1.16	ug/L	95
33) Trichloroethene	10.75	130	58787	1.27	ug/L	98
34) 1,2-Dichloropropane	11.06	63	45156	1.32	ug/L #	79
35) Dibromomethane	11.22	93	36426	1.36	ug/L	98
36) Bromodichloromethane	11.36	83	61039	1.13	ug/L	95
37) cis-1,3-Dichloropropene	11.88	75	58023	0.99	ug/L	94
40) (MIBK) 4-Methyl-2-Pentanone	12.12	43	25643	1.18	ug/L #	100
41) Toluene	12.29	91	194649	1.31	ug/L	99
42) trans-1,3-Dichloropropene	12.52	75	45472	0.93	ug/L #	76
43) 1,1,2-Trichloroethane	12.76	83	37347	1.39	ug/L #	87
44) Tetrachloroethene	12.94	164	60650	1.16	ug/L	95
45) 1,3-Dichloropropane	12.97	76	65111	1.27	ug/L	100
46) 2-Hexanone	12.98	43	66688	2.79	ug/L #	96
47) Dibromochloromethane	13.26	129	49025	1.28	ug/L #	100
48) 1,2-Dibromoethane	13.43	107	50983	1.47	ug/L	97
49) Chlorobenzene	13.97	112	137573	1.37	ug/L	98
50) 1,1,1,2-Tetrachloroethane	14.03	131	44494	1.25	ug/L	94
51) Ethylbenzene	14.03	91	223863	1.32	ug/L	99
52) m,p-Xylenes	14.15	106	163234	2.71	ug/L	98
53) o-Xylene	14.62	106	77130	1.30	ug/L	95
54) Styrene	14.63	104	129033	1.50	ug/L	97
55) Bromoform	14.92	173	33864	1.56	ug/L	96
56) Isopropylbenzene	15.01	105	216011	1.33	ug/L	100
57) 1,2,3-Trichloropropane	15.43	75	78760	1.77	ug/L #	1
60) 1,1,2,2-Tetrachloroethane	15.34	83	68427	1.75	ug/L	94
61) Bromobenzene	15.44	156	57443	1.35	ug/L	93
62) n-Propylbenzene	15.47	91	277436	1.27	ug/L	99
63) 2-Chlorotoluene	15.62	91	182660	1.36	ug/L	98
64) 1,3,5-Trimethylbenzene	15.63	105	178725	1.32	ug/L	99
65) 4-Chlorotoluene	15.73	91	177020	1.42	ug/L	99
66) tert-Butylbenzene	16.02	119	146106	1.27	ug/L	95

(#)=qualifier out of range (m)=manual integration

Data File : C:\HPCHEM\1\DATA\052814L3\E28LCS01.D

Vial: 10

Acq On : 28 May 2014 6:28 am

Operator: DN

Sample : 34E2801-BS1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 28 7:05 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 1,2,4-Trimethylbenzene	16.07	105	194221	1.38	ug/L	98
68) sec-Butylbenzene	16.25	105	249450	1.37	ug/L	96
69) p-Isopropyltoluene	16.39	119	185276	1.25	ug/L	93
70) 1,3-Dichlorobenzene	16.45	146	108377	1.35	ug/L	98
71) 1,4-Dichlorobenzene	16.54	146	105481	1.32	ug/L	98
72) n-Butylbenzene	16.85	91	207803	1.34	ug/L	98
73) 1,2-Dichlorobenzene	17.00	146	99955	1.40	ug/L	98
74) 1,2-Dibromo-3-chloropropan	17.94	75	14914	2.43	ug/L #	81
75) 1,2,4-Trichlorobenzene	19.04	180	64610	1.34	ug/L	97
76) Hexachlorobutadiene	19.21	225	28036	1.29	ug/L	95
77) Naphthalene	19.46	128	169799	1.59	ug/L	100
78) Hexachloroethane	17.30	201	19328	1.23	ug/L	91
79) 1,2,3-Trichlorobenzene	19.83	180	57578	1.26	ug/L	95

(#) = qualifier out of range (m) = manual integration

E28LCS01.D MW111313.M

Wed May 28 07:05:34 2014

Page 3

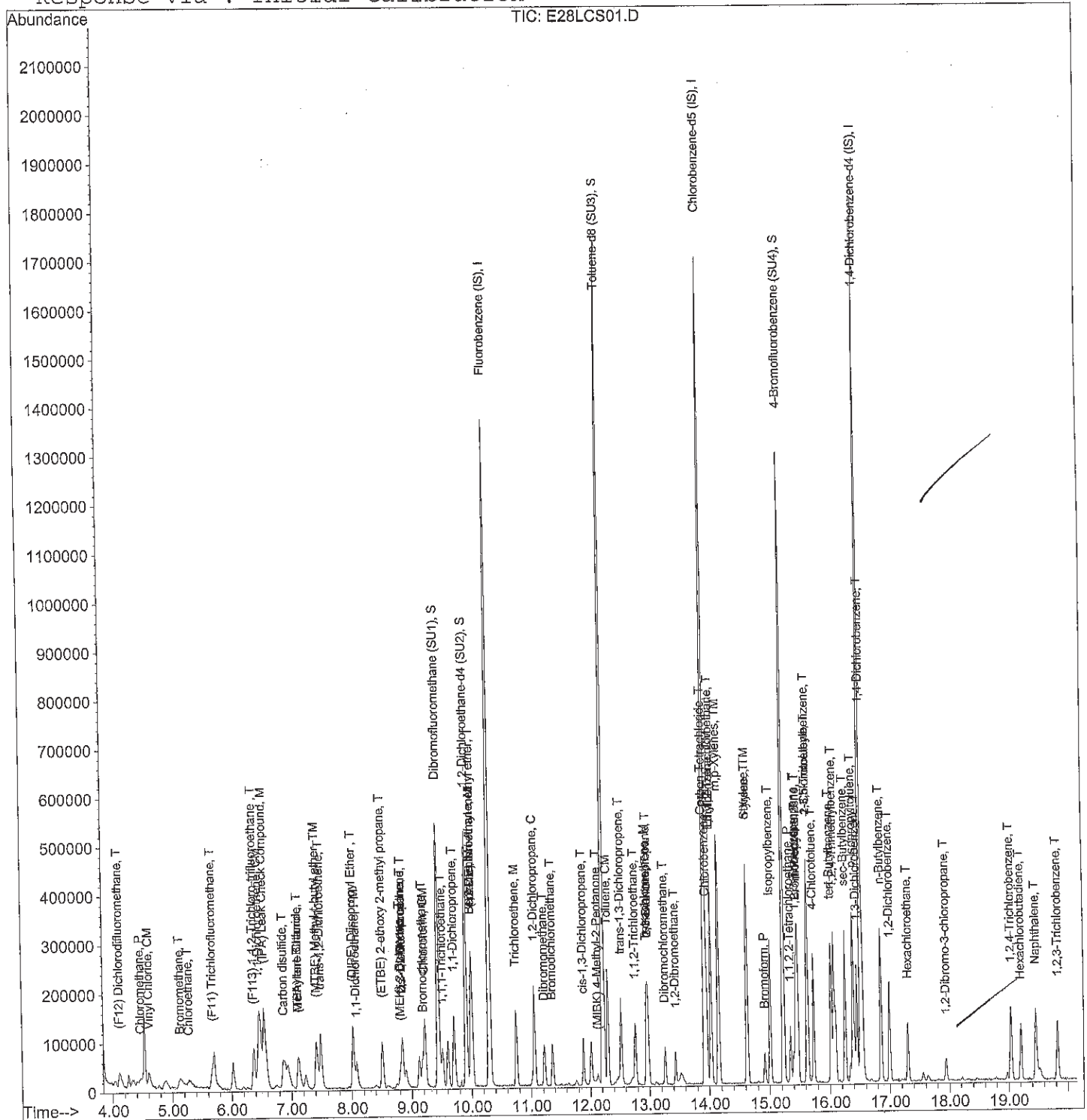
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E28LCS01.D
Acq On : 28 May 2014 6:28 am
Sample : 34E2801-BS1
Misc : 20cc 1.25/2.5/12.5 ug/L LCS
MS Integration Params: rteint.p
Quant Time: May 28 7:05 19114 Quan

Vial: 10
Operator: DN
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: MW111313.RES

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Method       : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title        : 8260B      GC/MS #3      ICAL 11/13/13   DN
Last Update  : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
```



RAW DATA FOR QC SAMPLES AND INITIAL CALIBRATION
BLANK

Data File : C:\HPCHEM\1\DATA\052814L3\E28BLK01.D

Vial: 11

Acq On : 28 May 2014 7:43 am

Operator: DN

Sample : 34E2801-BLK1

Inst : GC/MS Ins

Misc : 100cc AMBIENT AIR/H2O

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 8:13 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1886088	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1421471	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	727836	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	523637	11.13	ug/L	0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	89.04%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	519676	11.62	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	92.96%
39) Toluene-d8 (SU3)	12.20	98	1619271	12.21	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	97.68%
58) 4-Bromofluorobenzene (SU4)	15.22	95	780429	13.42	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	107.36%

Target Compounds

					Qvalue
4) Chloromethane	4.40	50	4477	0.19 ug/L	63
6) Bromomethane	5.14	96	4630	0.45 ug/L	90
7) Chloroethane	5.47	64	779	1.18 ug/L	89
11) Acetone	6.47	58	6791	4.29 ug/L	79
12) (IPA) Leak Check Compound	6.49	45	79782	352.02 ug/L	84
14) Methylene Chloride	7.08	84	6757	1.30 ug/L	1
15) (TBA) tert-Butanol	6.90	59	613	1.91 ug/L	77
24) Chloroform	9.21	83	11505	1.16 ug/L	18
31) Benzene	9.98	78	1971	0.11 ug/L	57
32) 1,2-Dichloroethane	9.92	62	6880	1.10 ug/L	1
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	8470	2.99 ug/L	100
41) Toluene	12.29	91	12619	0.65 ug/L	86
46) 2-Hexanone	12.97	43	627	0.20 ug/L	37
51) Ethylbenzene	14.15	91	4274	0.19 ug/L	96
52) m,p-Xylenes	14.14	106	1580	0.20 ug/L	70
53) o-Xylene	14.62	106	455	0.06 ug/L	71
54) Styrene	14.62	104	1816	-0.71 ug/L	61
56) Isopropylbenzene	15.22	105	1840	0.09 ug/L	1
62) n-Propylbenzene	15.46	91	902	0.03 ug/L	56
63) 2-Chlorotoluene	15.62	91	283	0.02 ug/L	45
64) 1,3,5-Trimethylbenzene	15.54	105	623	0.03 ug/L	31
65) 4-Chlorotoluene	15.62	91	283	0.02 ug/L	44

(#)= qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052814L3\E28BLK01.D

Vial: 11

Acq On : 28 May 2014 7:43 am

Operator: DN

Sample : 34E2801-BLK1

Inst : GC/MS Ins

Misc : 100cc AMBIENT AIR/H2O

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 8:13 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 1,2,4-Trimethylbenzene	16.06	105	3223	0.17	ug/L	92
68) sec-Butylbenzene	16.25	105	317	0.01	ug/L	62
69) p-Isopropyltoluene	16.38	119	5081	0.26	ug/L	67
77) Naphthalene	19.44	128	813	0.06	ug/L	100

(#) = qualifier out of range (m) = manual integration

E28BLK01.D MW111313.M

Wed May 28 08:13:24 2014

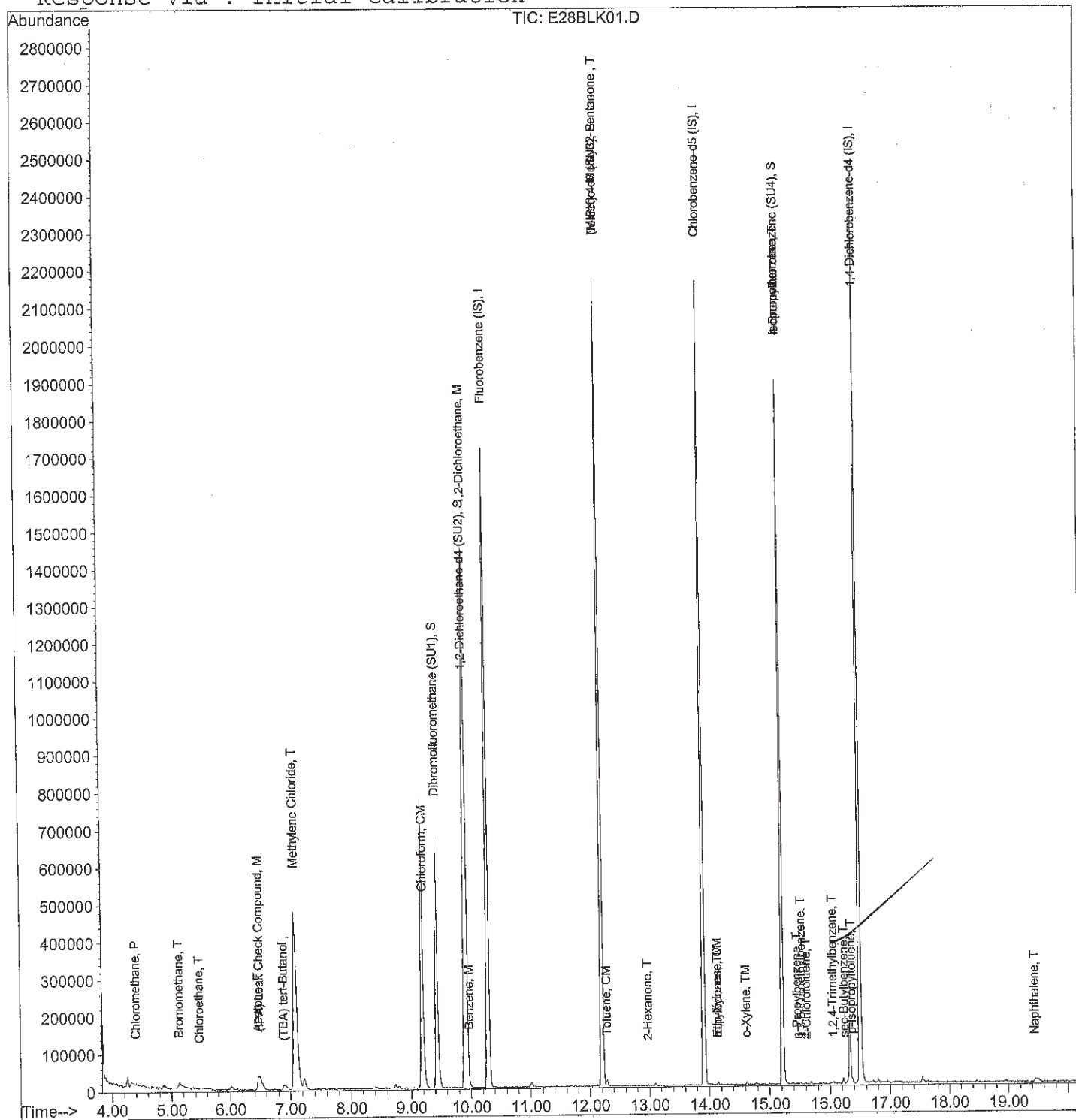
Quantitation Report

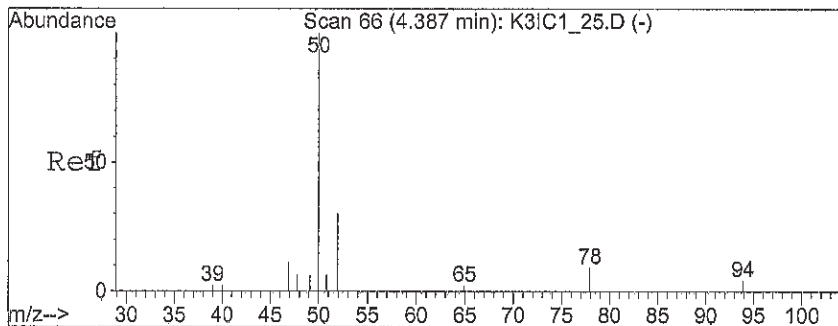
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 Sample : 34E2801-BLK1
 Misc : 100cc AMBIENT AIR/H2O
 MS Integration Params: rteint.p
 Quant Time: May 28 8:13 19114

Vial: 11
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

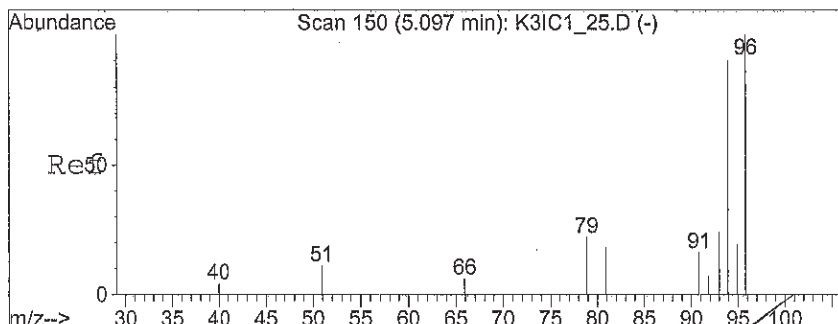
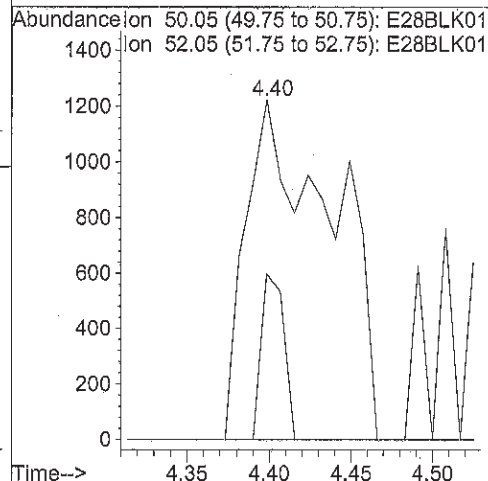
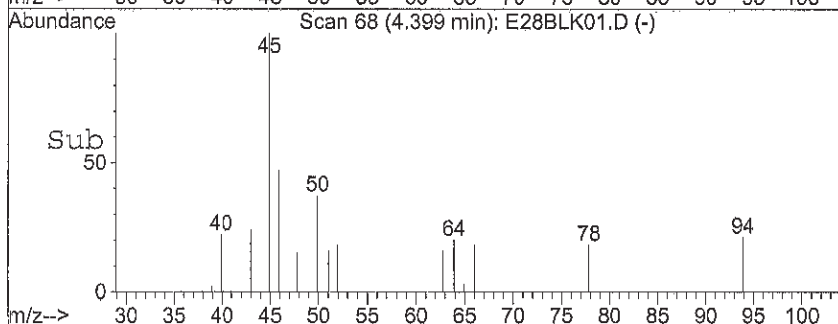
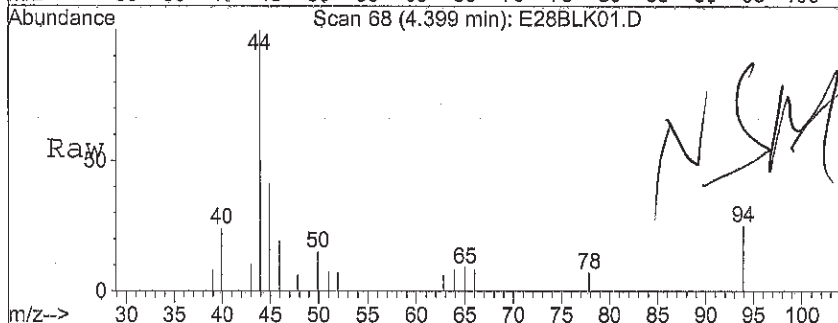
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 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration





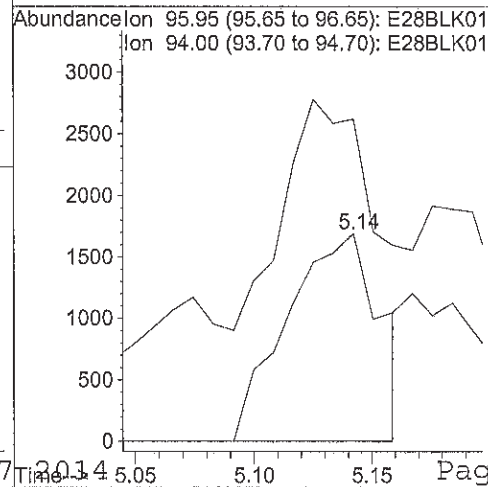
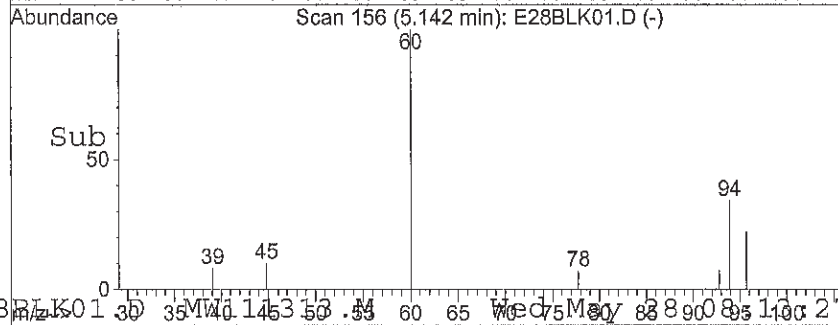
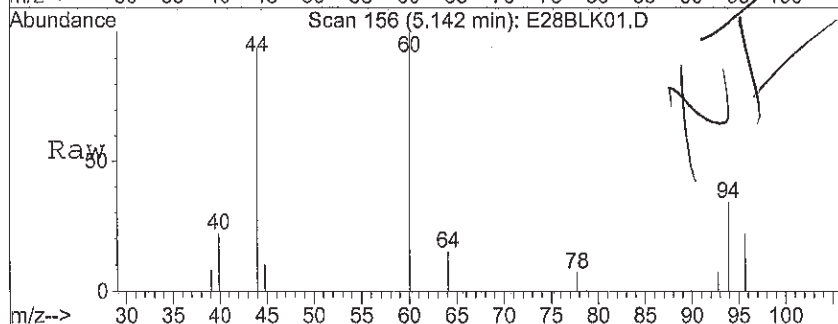
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Chloromethane
Concen: 0.19 ug/L
RT: 4.40 min Scan# 68
Delta R.T. 0.01 min
Lab File: E28BLK01.D
Acq: 28 May 2014 7:43 am

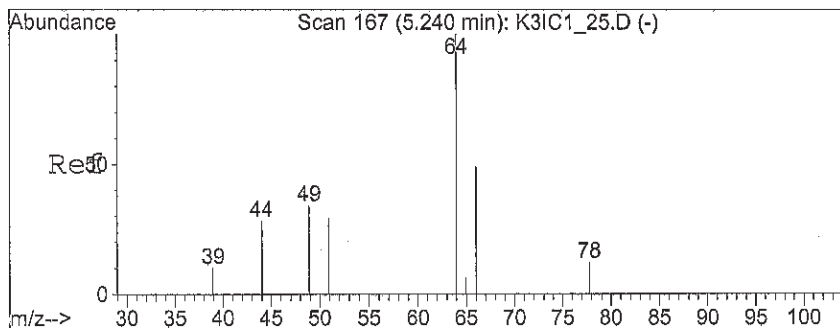
Tgt Ion: 50 Resp: 4477
Ion Ratio Lower Upper
50 100
52 12.8 26.9 40.3#



#6
Bromomethane
Concen: 0.45 ug/L
RT: 5.14 min Scan# 156
Delta R.T. 0.05 min
Lab File: E28BLK01.D
Acq: 28 May 2014 7:43 am

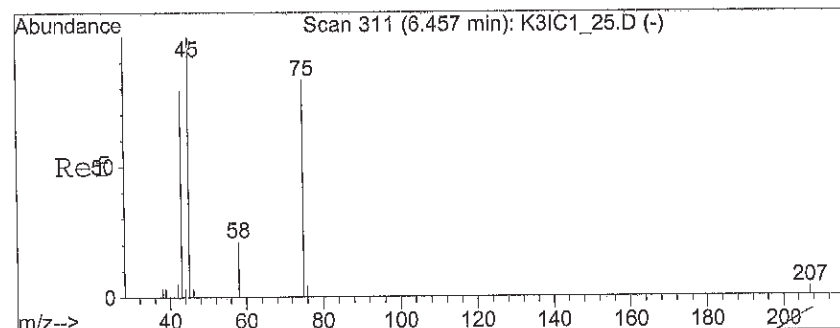
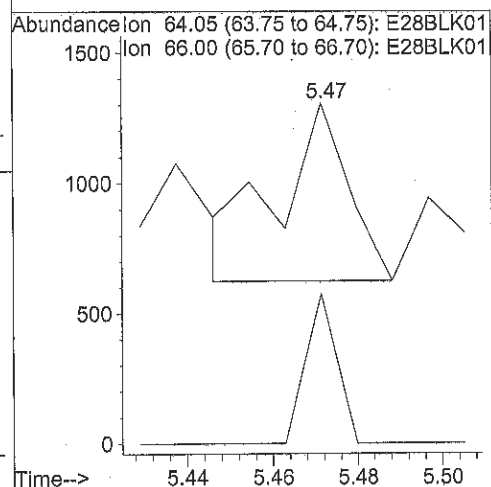
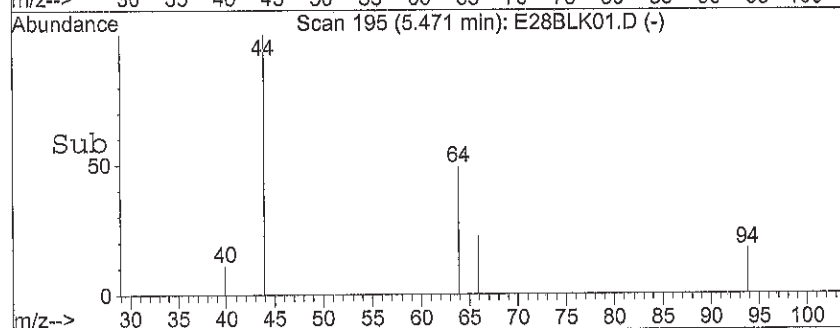
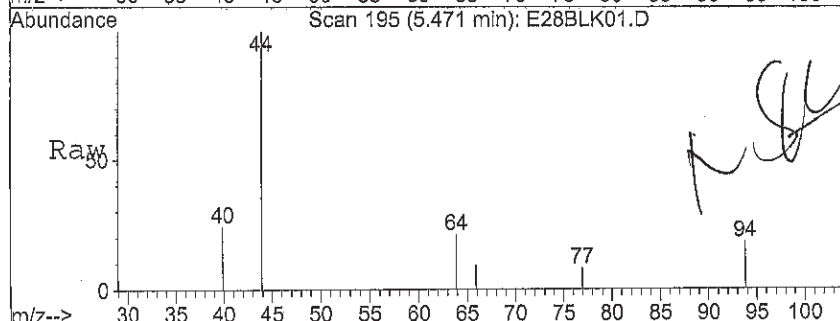
Tgt Ion: 96 Resp: 4630
Ion Ratio Lower Upper
96 100
94 115.0 101.0 151.4





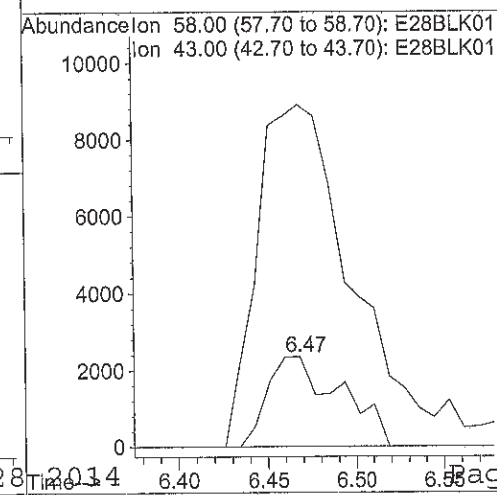
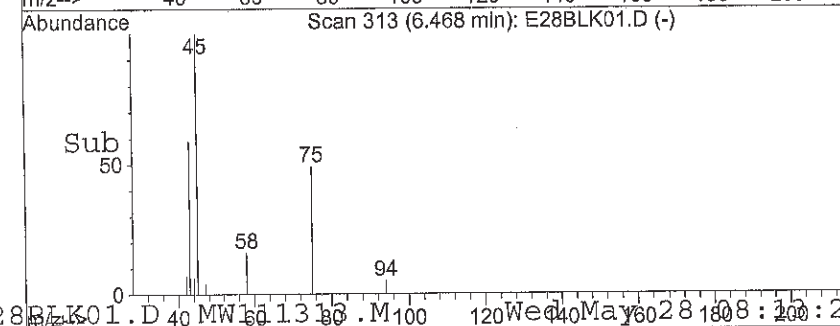
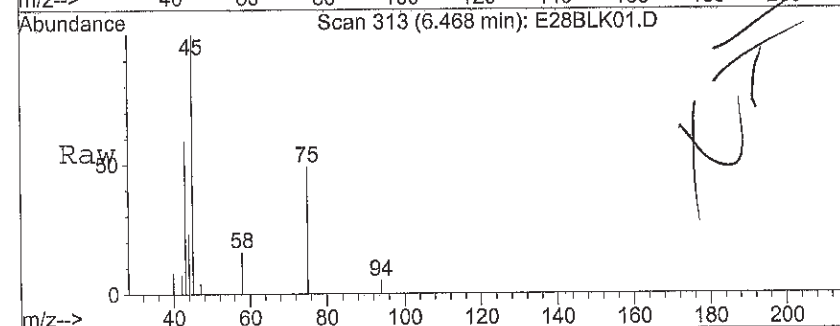
#7
Chloroethane
Concen: 1.18 ug/L
RT: 5.47 min Scan# 195
Delta R.T. 0.23 min
Lab File: E28BLK01.D
Acq: 28 May 2014 7:43 am

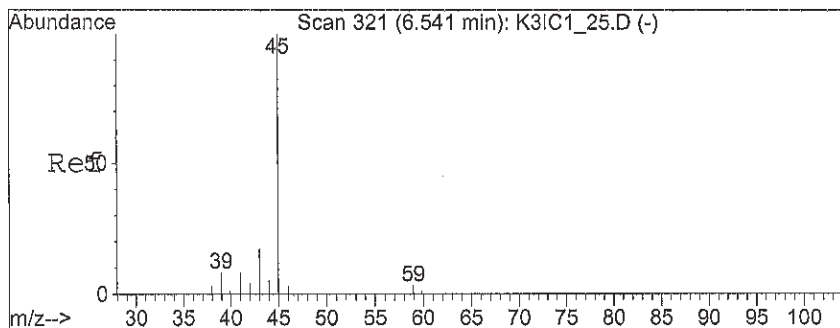
Tgt Ion: 64 Resp: 779
Ion Ratio Lower Upper
64 100
66 37.4 35.4 53.0



#11
Acetone
Concen: 4.29 ug/L
RT: 6.47 min Scan# 313
Delta R.T. 0.01 min
Lab File: E28BLK01.D
Acq: 28 May 2014 7:43 am

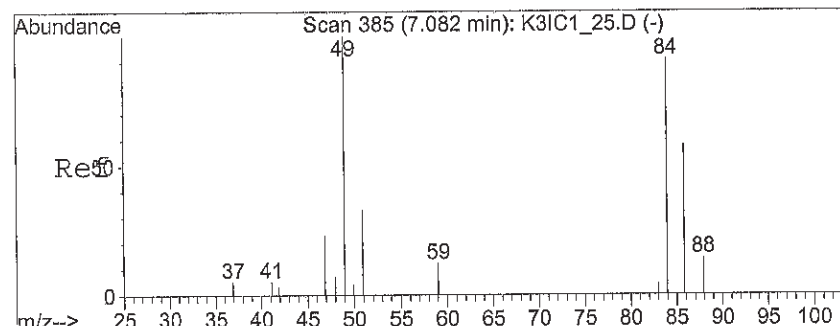
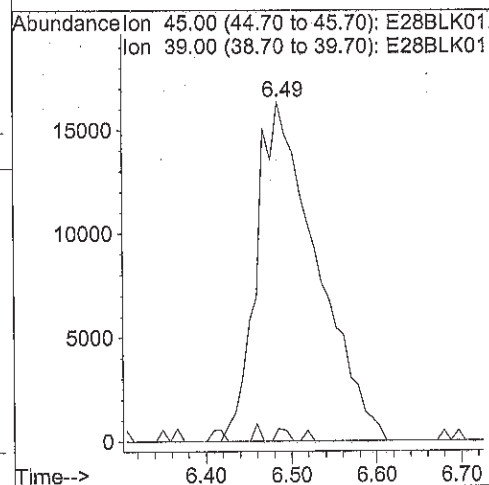
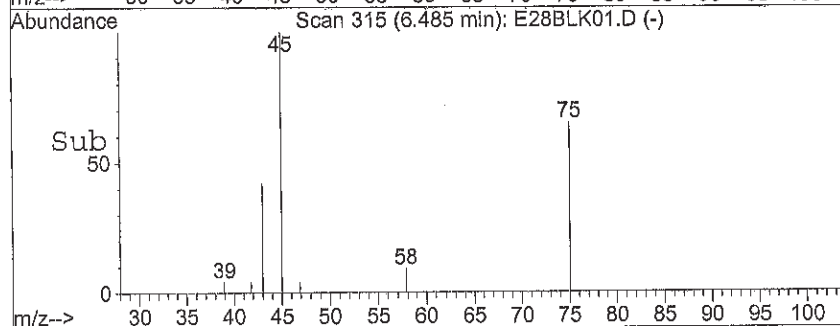
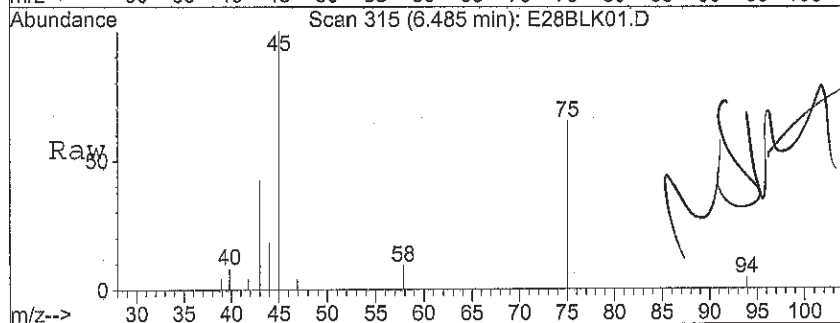
Tgt Ion: 58 Resp: 6791
Ion Ratio Lower Upper
58 100
43 504.8 360.9 541.3





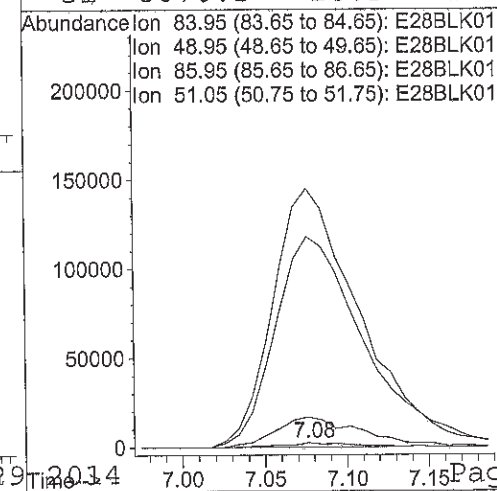
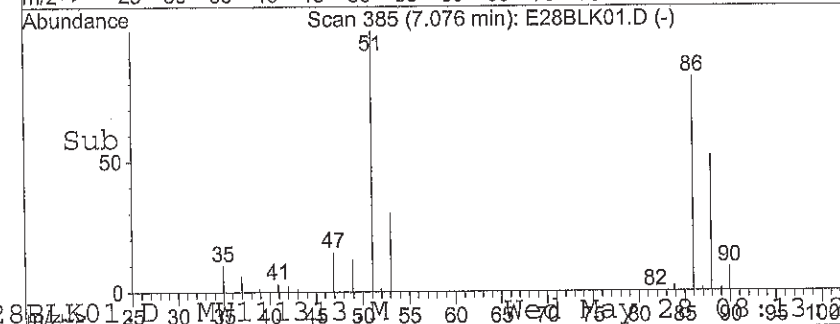
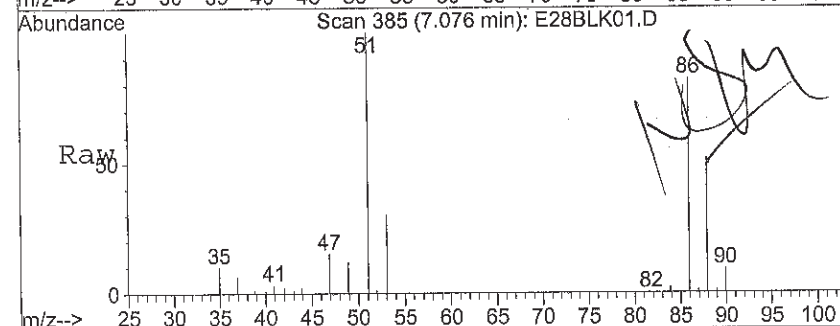
#12
 (IPA) Leak Check Compound
 Concen: 352.02 ug/L
 RT: 6.49 min Scan# 315
 Delta R.T. -0.06 min
 Lab File: E28BLK01.D
 Acq: 28 May 2014 7:43 am

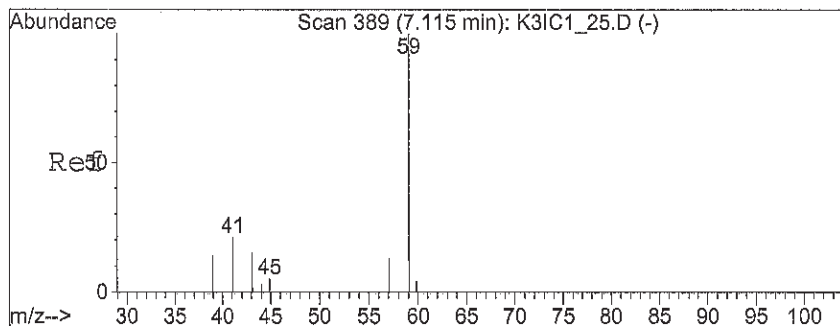
Tgt Ion: 45 Resp: 79782
 Ion Ratio Lower Upper
 45 100
 39 0.7 4.9 7.3#



#14
 Methylene Chloride
 Concen: 1.30 ug/L
 RT: 7.08 min Scan# 385
 Delta R.T. -0.01 min
 Lab File: E28BLK01.D
 Acq: 28 May 2014 7:43 am

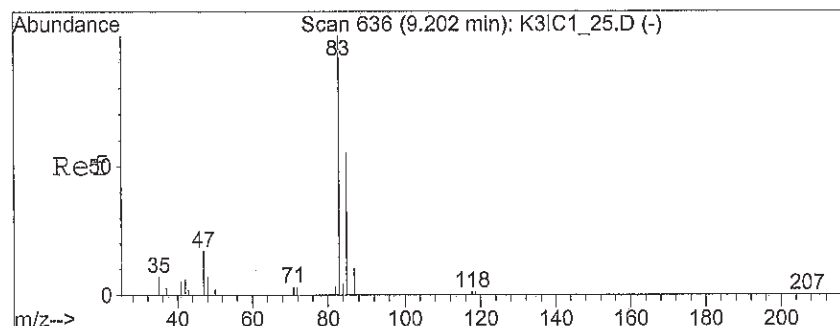
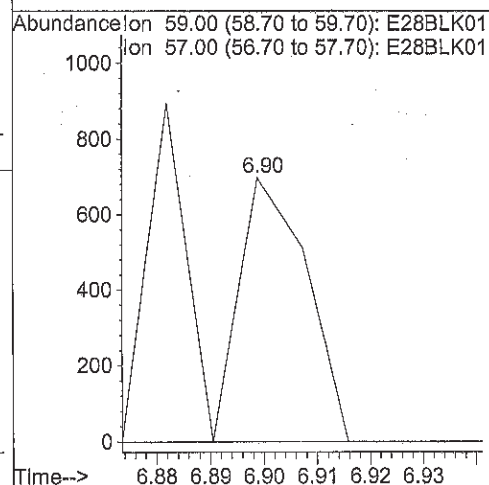
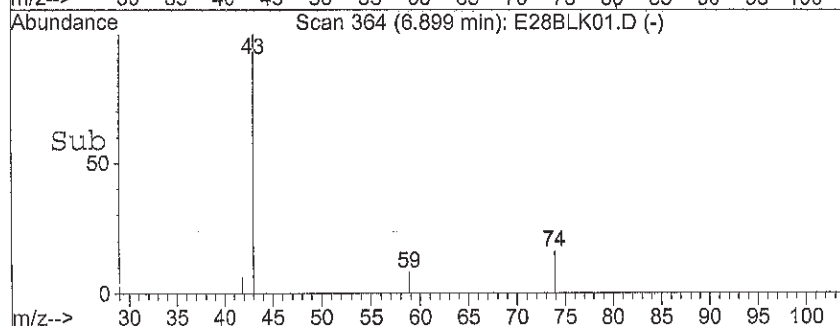
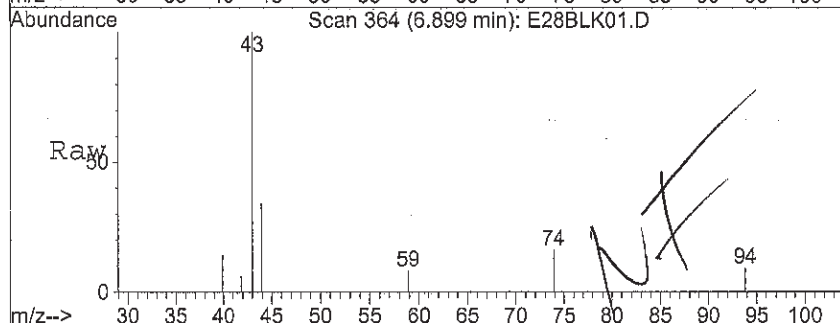
Tgt Ion: 84 Resp: 6757
 Ion Ratio Lower Upper
 84 100
 49 895.4 89.8 134.6#
 86 6642.1 51.1 76.7#
 51 8070.3 28.5 42.7#





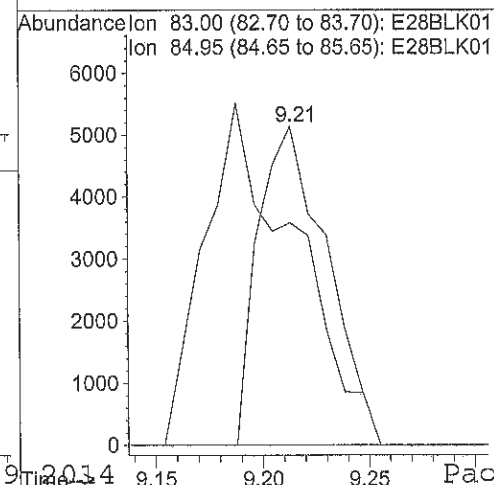
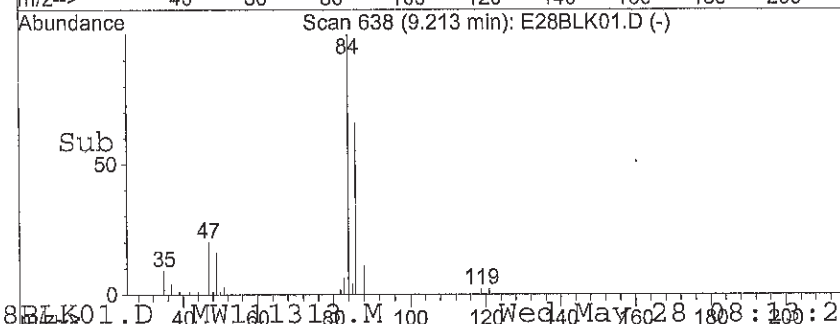
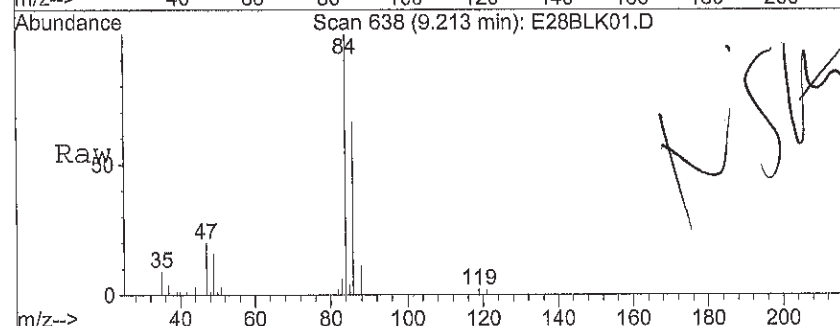
#15
 (TBA) tert-Butanol
 Concen: 1.91 ug/L
 RT: 6.90 min Scan# 364
 Delta R.T. -0.22 min
 Lab File: E28BLK01.D
 Acq: 28 May 2014 7:43 am

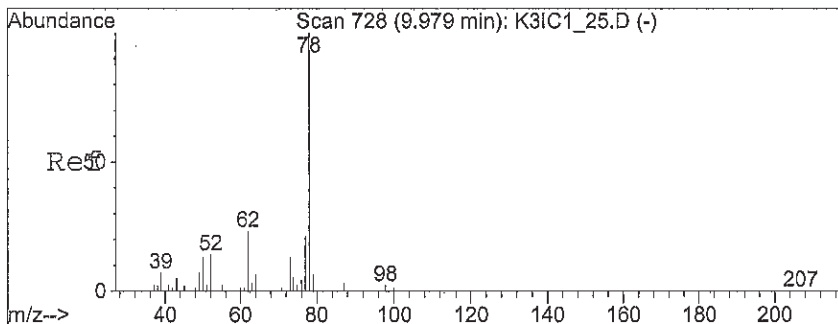
Tgt Ion: 59 Resp: 613
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#24
 Chloroform
 Concen: 1.16 ug/L
 RT: 9.21 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: E28BLK01.D
 Acq: 28 May 2014 7:43 am

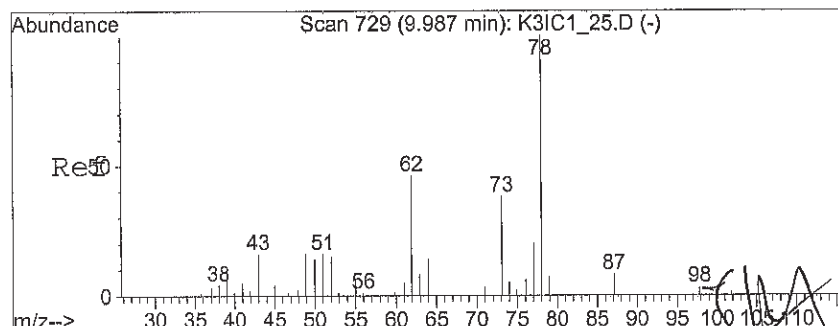
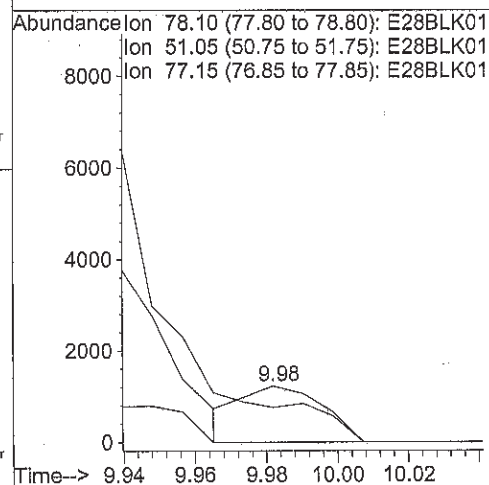
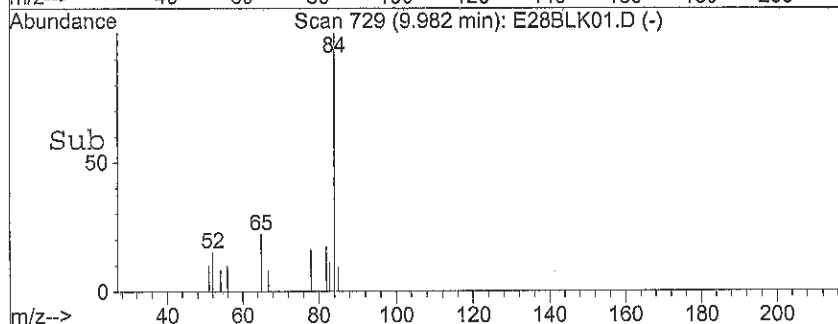
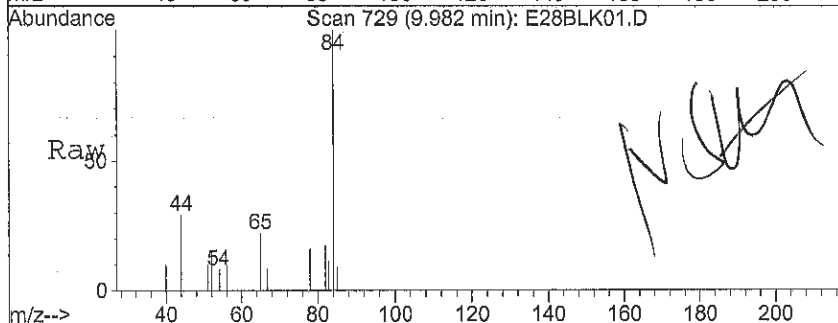
Tgt Ion: 83 Resp: 11505
 Ion Ratio Lower Upper
 83 100
 85 0.0 51.8 77.6#





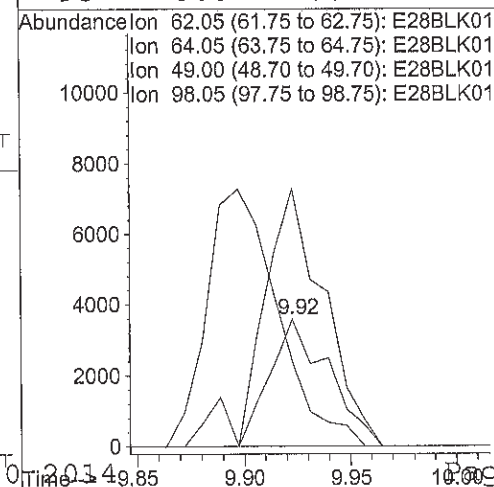
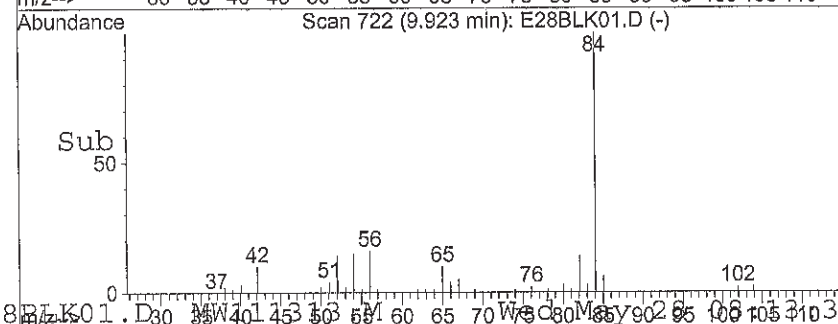
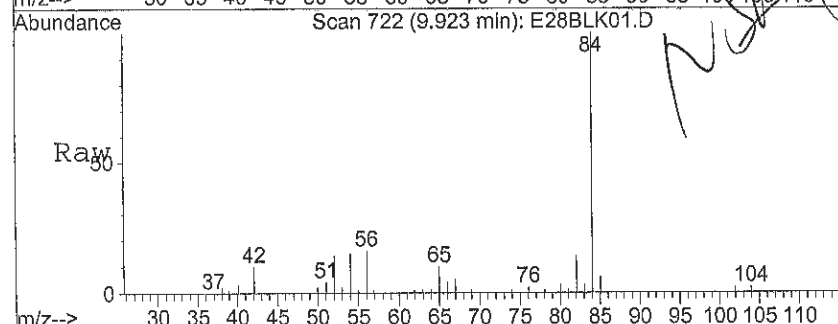
#31
Benzene
Concen: 0.11 ug/L
RT: 9.98 min Scan# 729
Delta R.T. 0.00 min
Lab File: E28BLK01.D
Acq: 28 May 2014 7:43 am

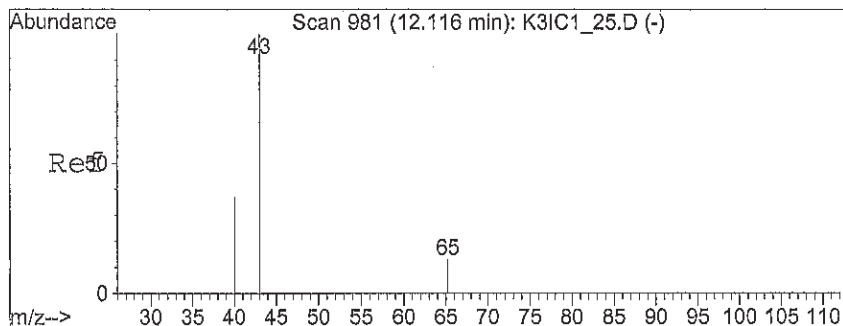
Tgt Ion: 78 Resp: 1971
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 0.0 16.6 24.8#



#32
1,2-Dichloroethane
Concen: 1.10 ug/L
RT: 9.92 min Scan# 722
Delta R.T. -0.06 min
Lab File: E28BLK01.D
Acq: 28 May 2014 7:43 am

Tgt Ion: 62 Resp: 6880
Ion Ratio Lower Upper
62 100
64 216.0 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#





#40

(MIBK) 4-Methyl-2-Pentanone

Concen: 2.99 ug/L

RT: 12.20 min Scan# 992

Delta R.T. 0.09 min

Lab File: E28BLK01.D

Acq: 28 May 2014 7:43 am

Tgt Ion: 43 Resp: 8470

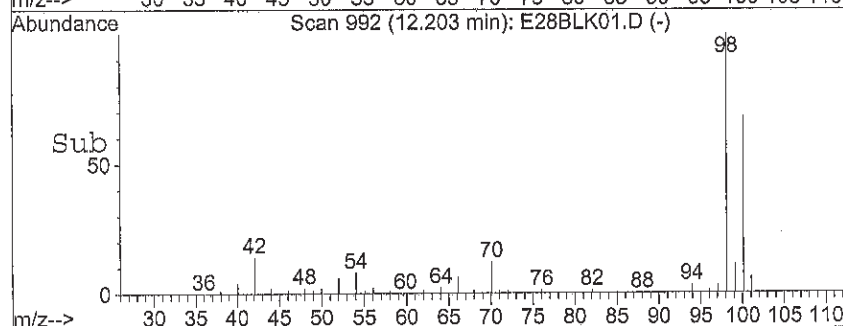
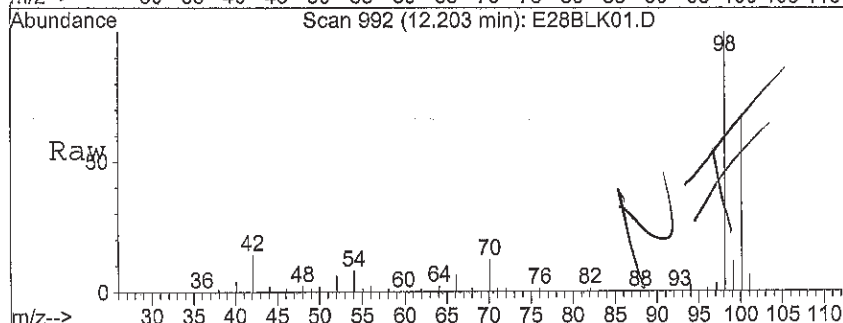
Ion Ratio Lower Upper

43 100

58 154.5 0.0 0.0#

85 0.0 0.0 0.0

100 12852.7 0.0 0.0#



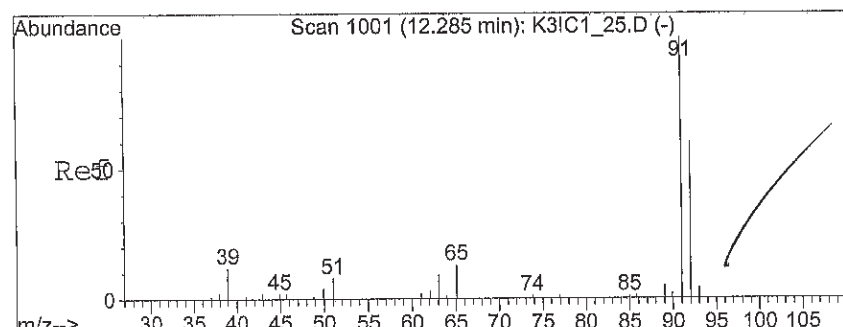
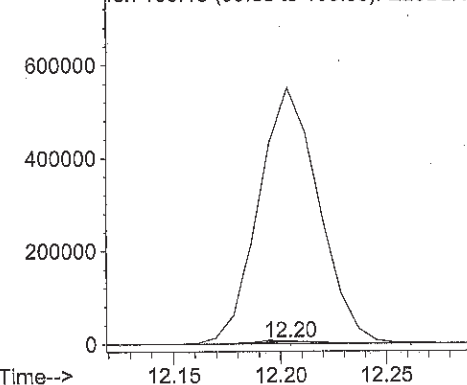
Abundance

Ion 43.00 (42.70 to 43.70): E28BLK01

Ion 58.10 (57.80 to 58.80): E28BLK01

Ion 85.05 (84.75 to 85.75): E28BLK01

Ion 100.15 (99.85 to 100.85): E28BLK01



#41

Toluene

Concen: 0.65 ug/L

RT: 12.29 min Scan# 1002

Delta R.T. 0.00 min

Lab File: E28BLK01.D

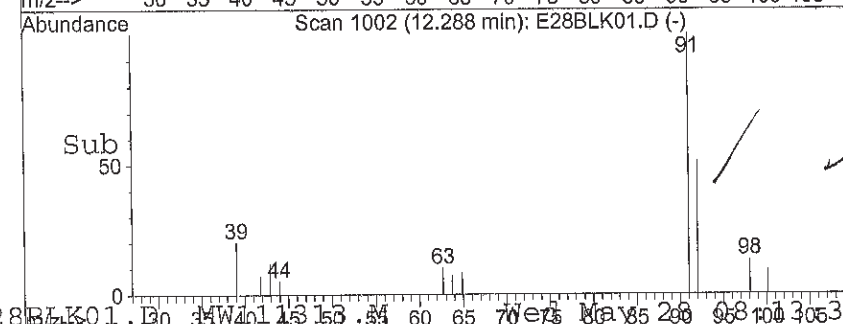
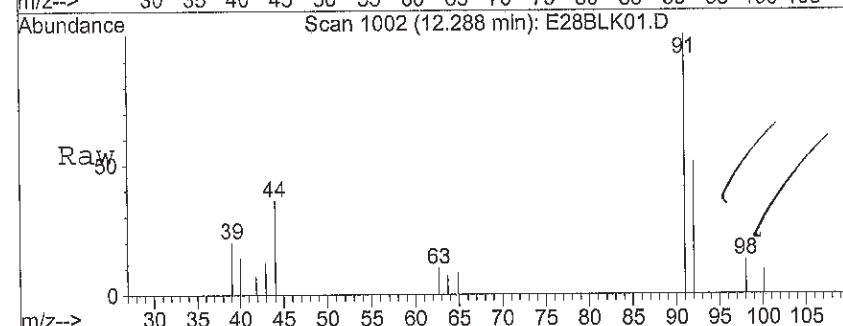
Acq: 28 May 2014 7:43 am

Tgt Ion: 91 Resp: 12619

Ion Ratio Lower Upper

91 100

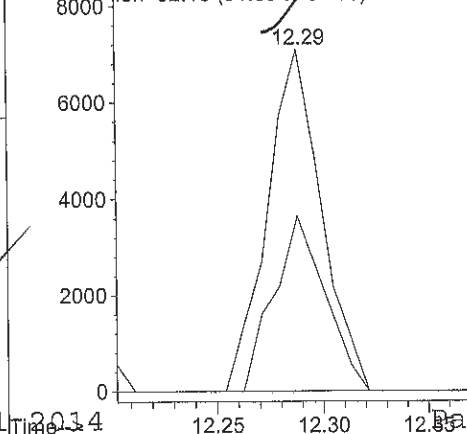
92 48.7 47.4 71.0

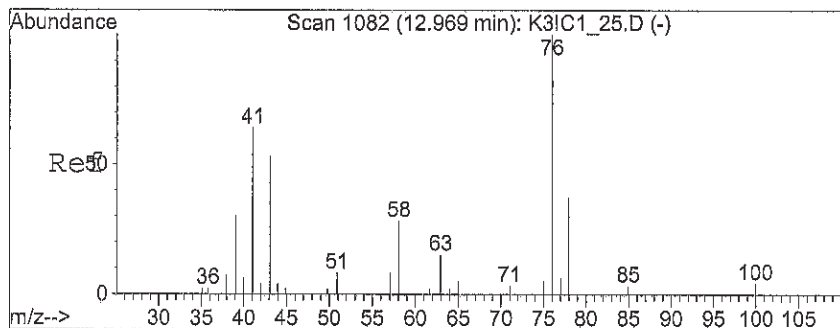


Abundance

Ion 91.10 (90.80 to 91.80): E28BLK01

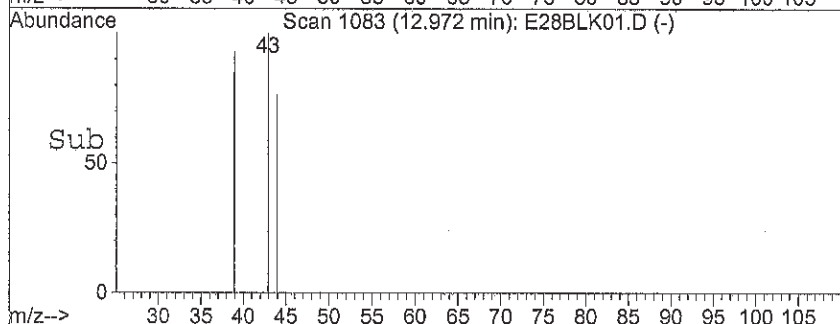
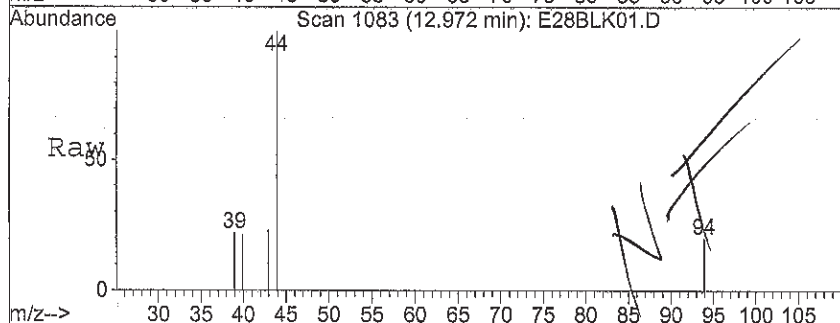
Ion 92.10 (91.80 to 92.80): E28BLK01



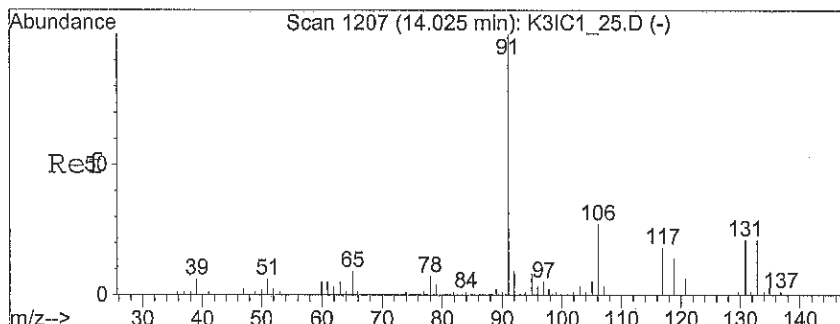
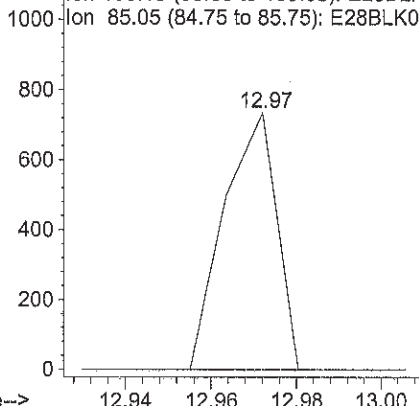


#46
2-Hexanone
Concen: 0.20 ug/L
RT: 12.97 min Scan# 1083
Delta R.T. 0.00 min
Lab File: E28BLK01.D
Acq: 28 May 2014 7:43 am

Tgt Ion: 43 Resp: 627
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#

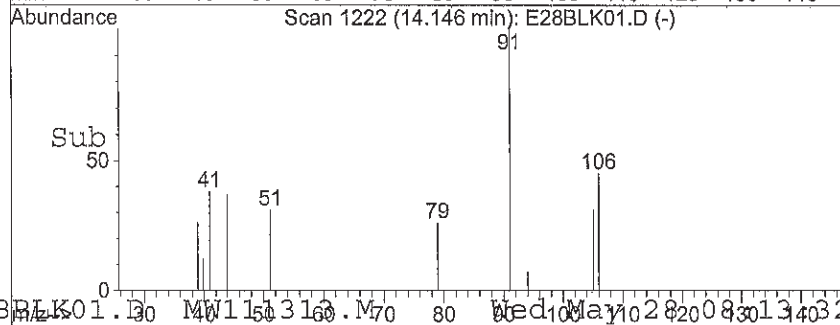
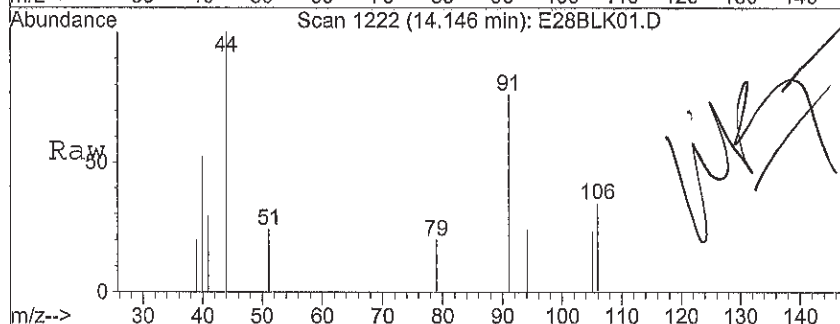


Abundance Ion 43.00 (42.70 to 43.70): E28BLK01
Ion 58.10 (57.80 to 58.80): E28BLK01
Ion 100.15 (99.85 to 100.85): E28BLK01
Ion 85.05 (84.75 to 85.75): E28BLK01

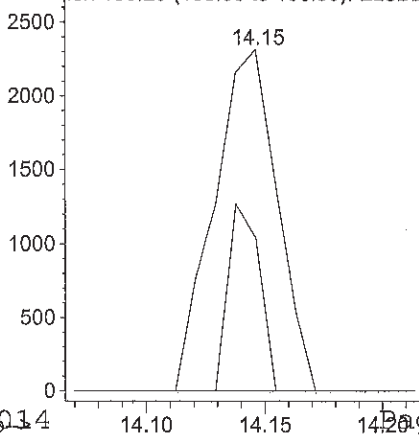


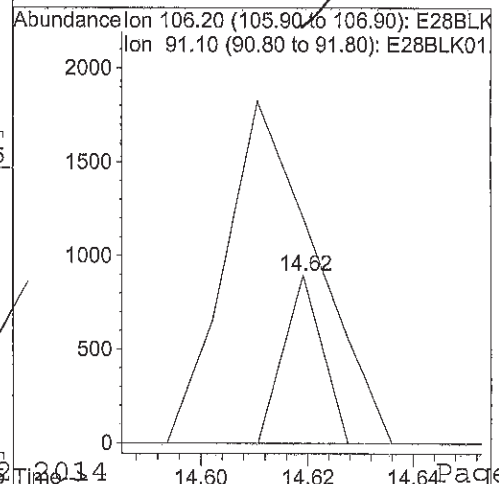
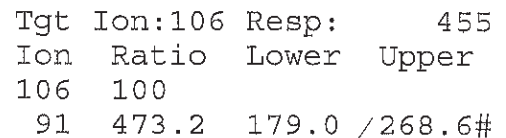
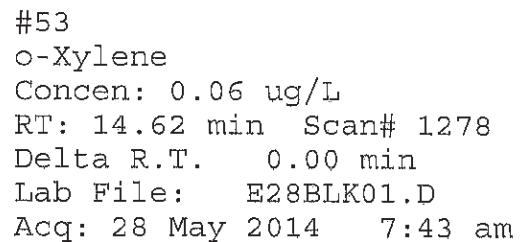
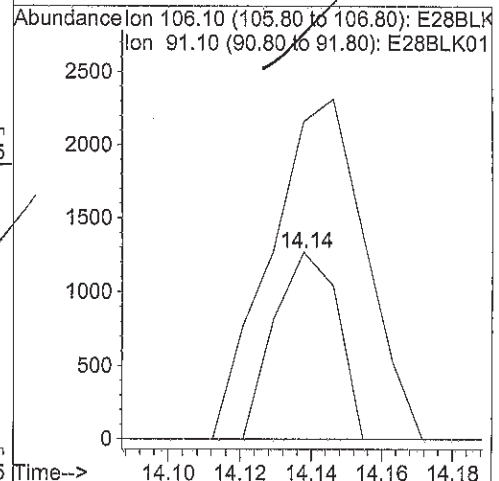
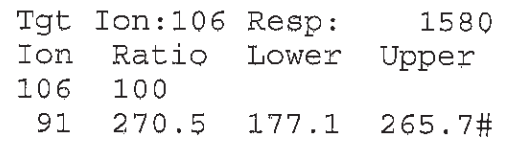
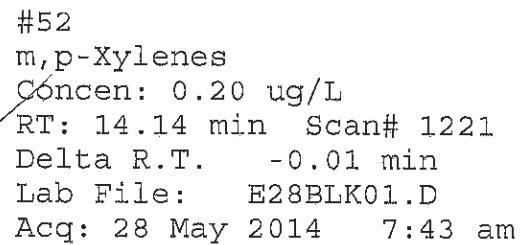
#51
Ethylbenzene
Concen: 0.19 ug/L
RT: 14.15 min Scan# 1222
Delta R.T. 0.12 min
Lab File: E28BLK01.D
Acq: 28 May 2014 7:43 am

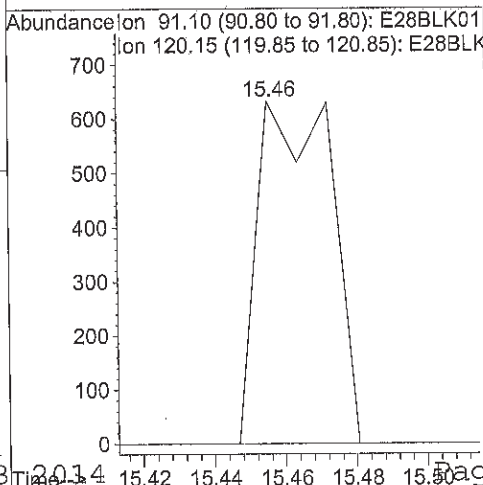
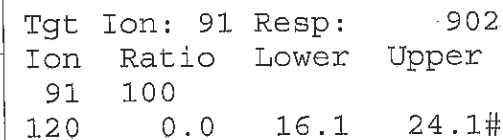
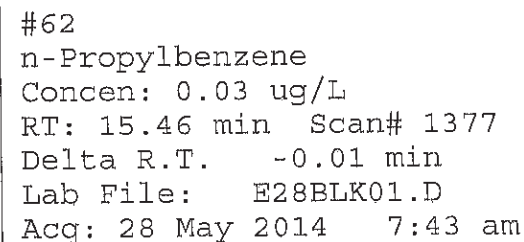
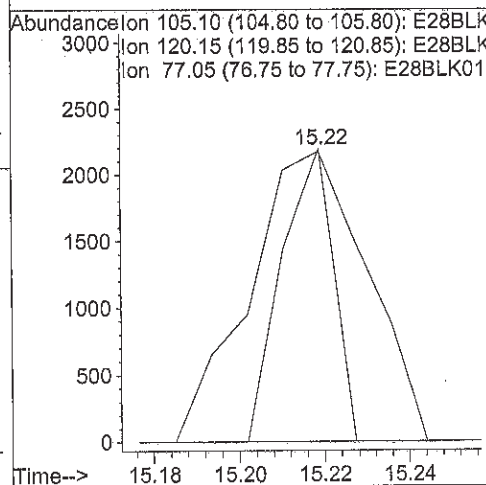
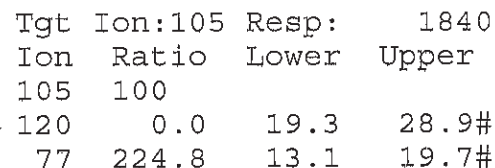
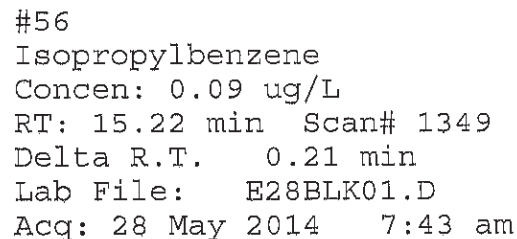
Tgt Ion: 91 Resp: 4274
Ion Ratio Lower Upper
91 100
106 27.4 23.5 35.3

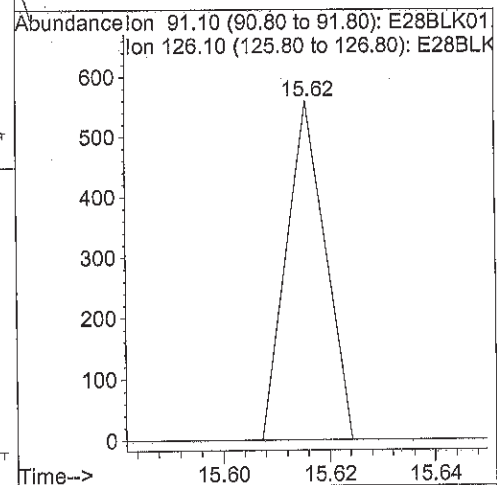
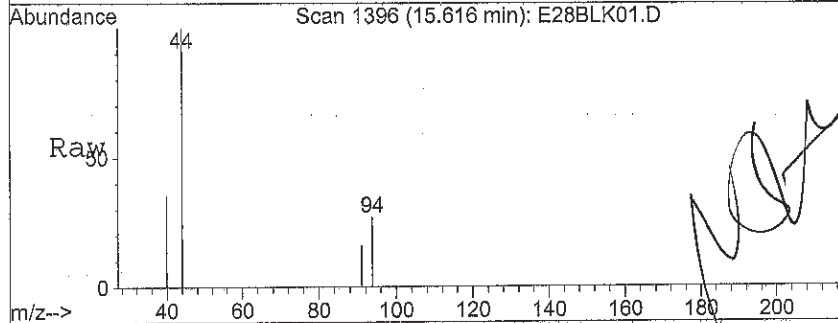


Abundance Ion 91.10 (90.80 to 91.80): E28BLK01
Ion 106.20 (105.90 to 106.90): E28BLK01

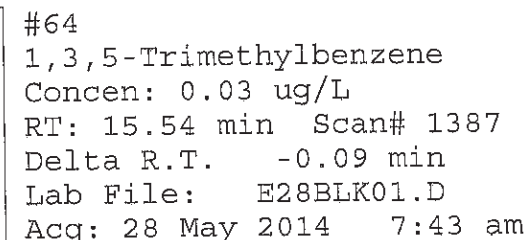
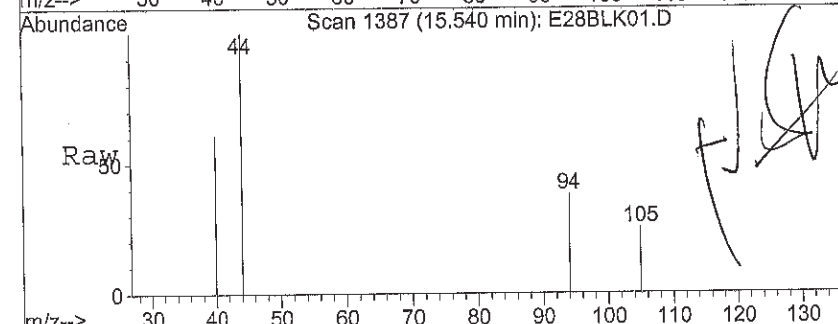




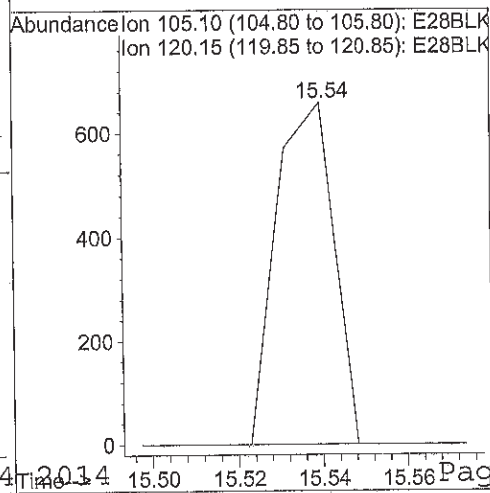


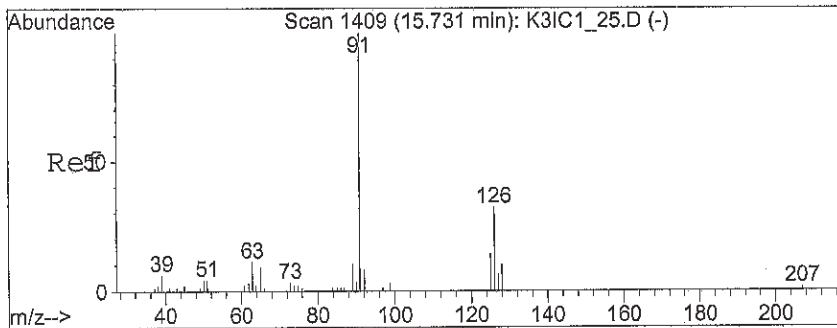


Tgt	Ion: 91	Resp:	283
Ion	Ratio	Lower	Upper
91	100		
126	0.0	24.0	36.0#



Tgt	Ion:105	Resp:	623
Ion	Ratio	Lower	Upper
105	100		
120	0.0	36.4	54.6#





#65

4-Chlorotoluene

Concen: 0.02 ug/L

RT: 15.62 min Scan# 1396

Delta R.T. -0.12 min

Lab File: E28BLK01.D

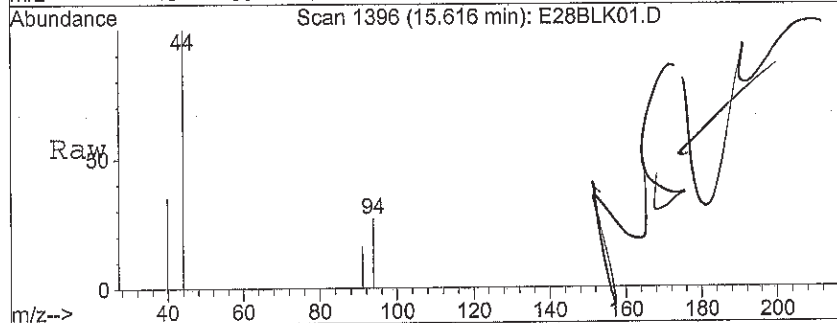
Acq: 28 May 2014 7:43 am

Tgt Ion: 91 Resp: 283

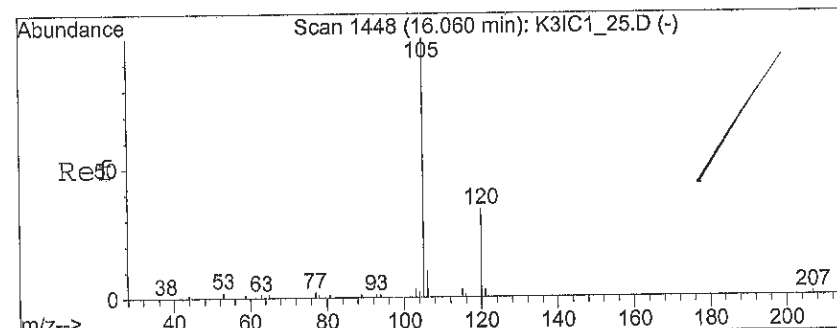
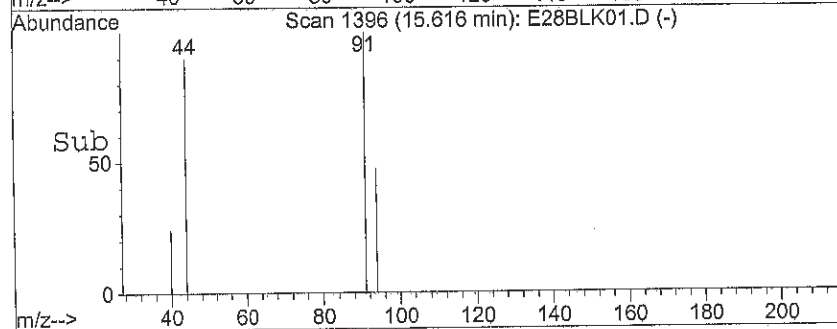
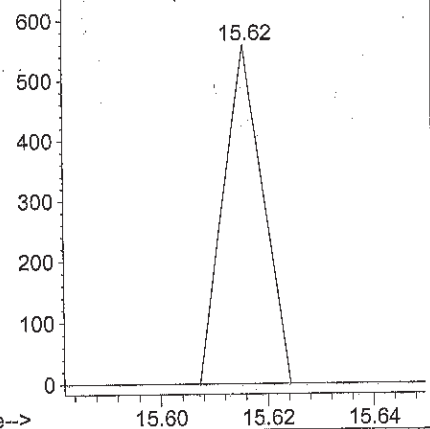
Ion Ratio Lower Upper

91 100

126 0.0 24.6 36.8#



Abundance Ion 91.10 (90.80 to 91.80): E28BLK01.D
Ion 126.10 (125.80 to 126.80): E28BLK01.D



#67

1,2,4-Trimethylbenzene

Concen: 0.17 ug/L

RT: 16.06 min Scan# 1449

Delta R.T. 0.00 min

Lab File: E28BLK01.D

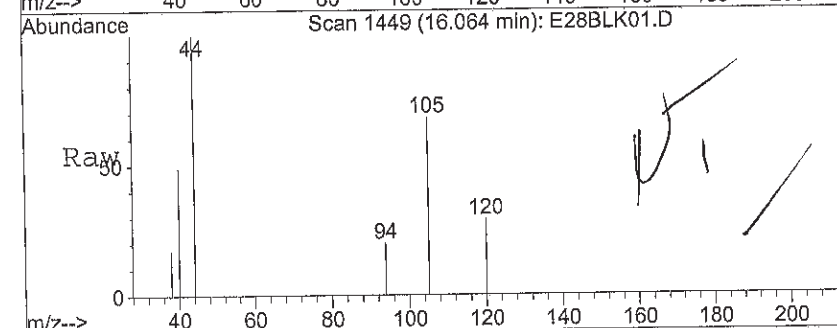
Acq: 28 May 2014 7:43 am

Tgt Ion: 105 Resp: 3223

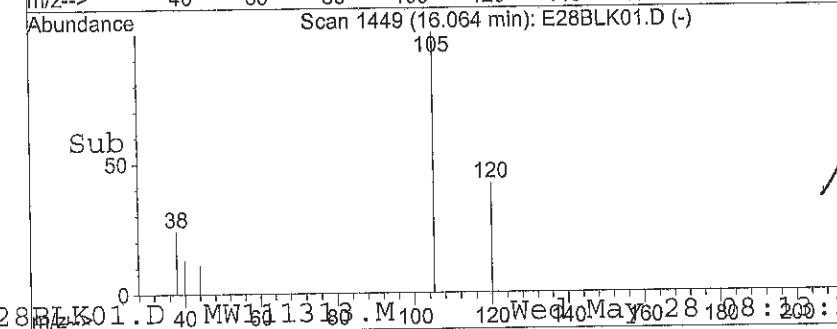
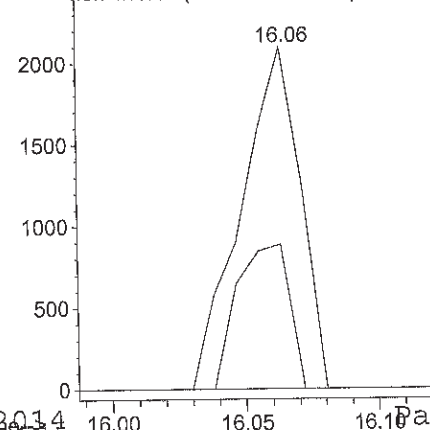
Ion Ratio Lower Upper

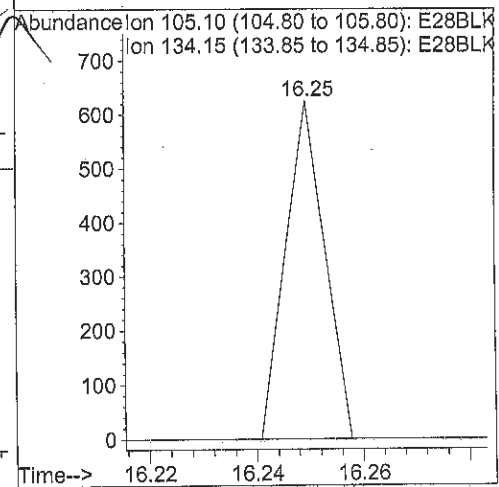
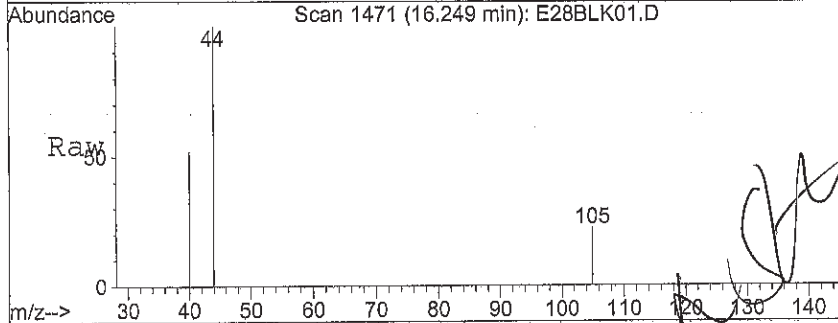
105 100

120 37.4 33.8 50.8

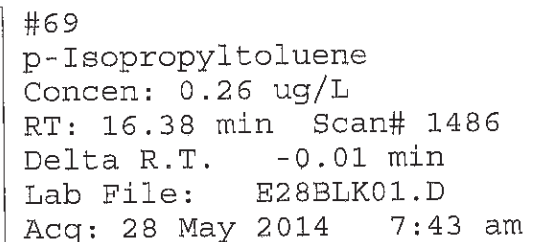
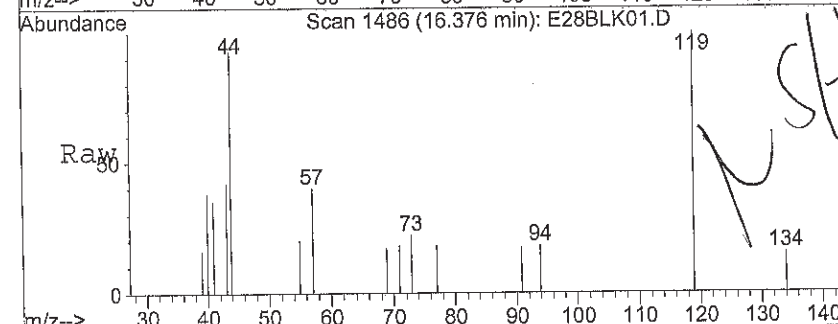


Abundance Ion 105.10 (104.80 to 105.80): E28BLK01.D
Ion 120.15 (119.85 to 120.85): E28BLK01.D

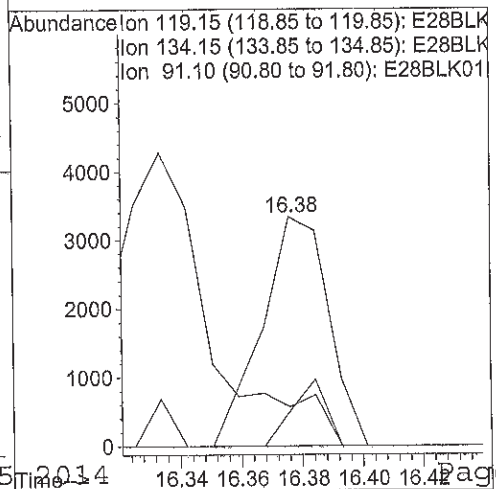


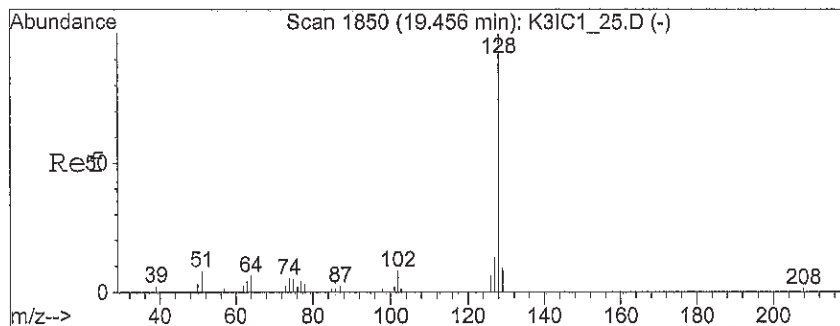


Tgt	Ion:105	Resp:	317
Ion	Ratio	Lower	Upper
105	100		
134	0.0	13.0	19.6#



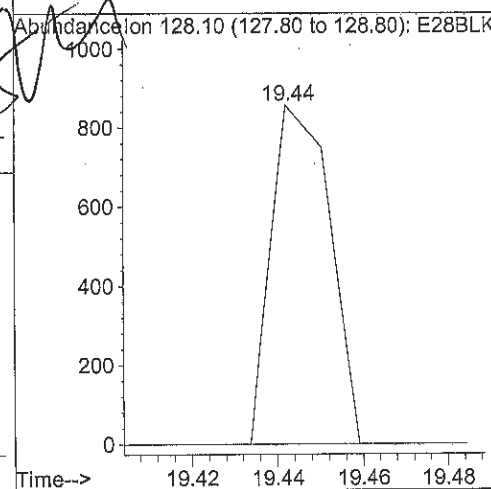
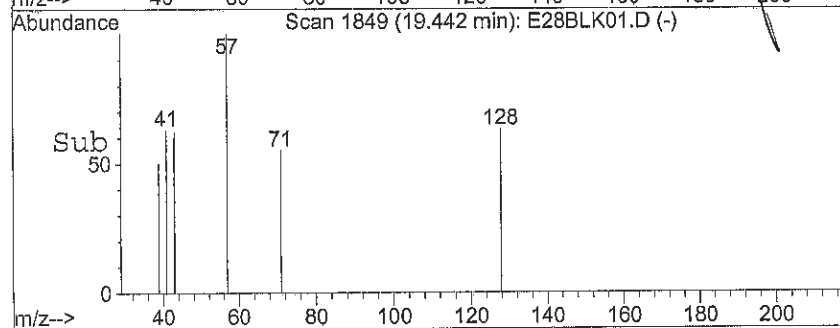
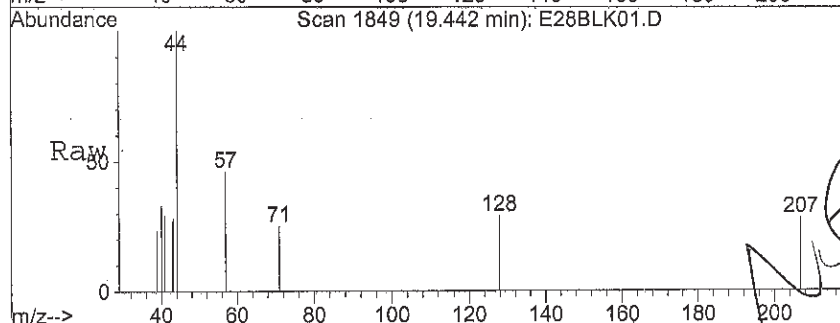
Tgt	Ion:119	Resp:	5081
Ion	Ratio	Lower	Upper
119	100		
134	14.6	17.4	26.2#
91	0.0	19.6	29.4#





#77
 Naphthalene
 Concen: 0.06 ug/L
 RT: 19.44 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: E28BLK01.D
 Acq: 28 May 2014 7:43 am

Tgt Ion:128 Resp: 813



Data File : C:\HPCHEM\1\DATA\052814L3\E28BLK01.D

Vial: 11

Acq On : 28 May 2014 7:43 am

Operator: DN

Sample : 34E2801-BLK1

Inst : GC/MS Ins

Misc : 100cc AMBIENT AIR/H2O

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 8:14 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1886088	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.92	117	1419861	12.50	ug/L	0.00
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	727836	12.50	ug/L	-0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	523637	10.68	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	85.44%
3) Chloroform-d (SU6)	9.19	84	774698	11.01	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	88.08%
4) Methylene Chloride-d2 (SU5)	7.08	86	448808	10.91	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	87.28%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	519676	15.50	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	124.00%
6) Benzene-d6 (SU7)	9.93	84	1546292	10.45	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	83.60%
8) Toluene-d8 (SU3)	12.20	98	1619271	12.02	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.16%
9) 4-Bromofluorobenzene (SU4)	15.22	95	780429	14.03	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	112.24%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E28BLK01.D SS072713.M

Wed May 28 08:14:29 2014

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E28BLK01.D

Vial: 11

Acq On : 28 May 2014 7:43 am

Operator: DN

Sample : 34E2801-BLK1

Inst : GC/MS Ins

Misc : 100cc AMBIENT AIR/H2O

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 8:14 19114

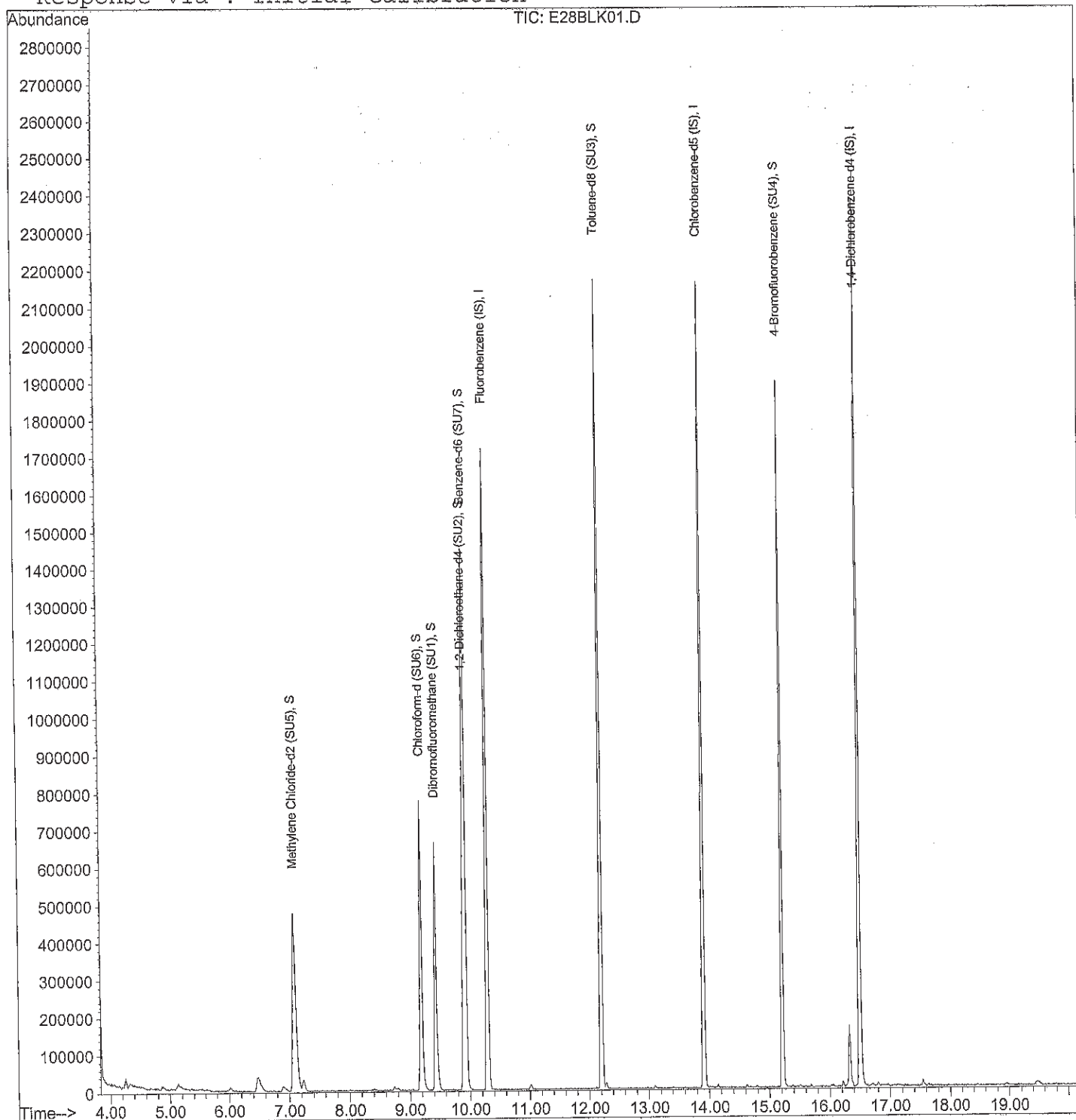
Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration



**RAW DATA FOR ANALYZED SAMPLES INCLUDING
CHROMATOGRAMS, QUANTITATION REPORTS AND
SPECTRA**

Data File : C:\HPCHEM\1\DATA\052814L3\E2800001.D

Vial: 11

Acq On : 28 May 2014 8:13 am

Operator: DN

Sample : 3E42801-01

Inst : GC/MS Ins

Misc : 100cc Equipment Blank

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 9:13 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1767160	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1332651	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	691087	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	484006	10.98	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	87.84%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	470035	11.22	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	89.76%
39) Toluene-d8 (SU3)	12.21	98	1528587	12.30	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	98.40%
58) 4-Bromofluorobenzene (SU4)	15.22	95	724152	13.29	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	106.32%

Target Compounds

					Qvalue	
4) Chloromethane	4.40	50	2886	-0.25 ug/L	#	60
6) Bromomethane	5.16	96	4146	0.36 ug/L	#	1
7) Chloroethane	5.25	64	1246	1.53 ug/L	#	32
11) Acetone	6.47	58	7159	5.54 ug/L	#	97
12) (IPA) Leak Check Compound	6.48	45	67832	319.44 ug/L	#	87
14) Methylene Chloride	7.06	84	5508	1.13 ug/L	#	1
15) (TBA) tert-Butanol	6.90	59	746	2.48 ug/L	#	77
24) Chloroform	9.22	83	2878	0.31 ug/L	#	60
29) 1,1-Dichloropropene	9.93	75	304	0.04 ug/L	#	1
31) Benzene	9.99	78	706	0.04 ug/L	#	57
32) 1,2-Dichloroethane	9.93	62	6196	1.05 ug/L	#	1
40) (MIBK) 4-Methyl-2-Pentanone	12.21	43	7862	2.96 ug/L	#	100
41) Toluene	12.29	91	2749	0.15 ug/L	#	280
46) 2-Hexanone	12.98	43	741	0.25 ug/L	#	37
51) Ethylbenzene	14.15	91	1034	0.05 ug/L	#	98
52) m,p-Xylenes	14.15	106	314	0.04 ug/L	#	83
54) Styrene	14.63	104	1249	-0.76 ug/L	#	43
62) n-Propylbenzene	15.22	91	1869	0.07 ug/L	#	56
68) sec-Butylbenzene	16.33	105	1441	0.06 ug/L	#	62
69) p-Isopropyltoluene	16.38	119	764	0.04 ug/L	#	52
74) 1,2-Dibromo-3-chloropropan	17.77	75	307	1.27 ug/L	#	6
77) Naphthalene	19.46	128	341	0.02 ug/L	#	100

(#)=qualifier out of range (m)=manual integration

E2800001.D MW111313.M

Wed May 28 09:13:14 2014

Data File : C:\HPCHEM\1\DATA\052814L3\E2800001.D Vial: 11
Acq On : 28 May 2014 8:13 am Operator: DN
Sample : 3E42801-01 Inst : GC/MS Ins
Misc : 100cc Equipment Blank Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: May 28 9:13 19114 Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
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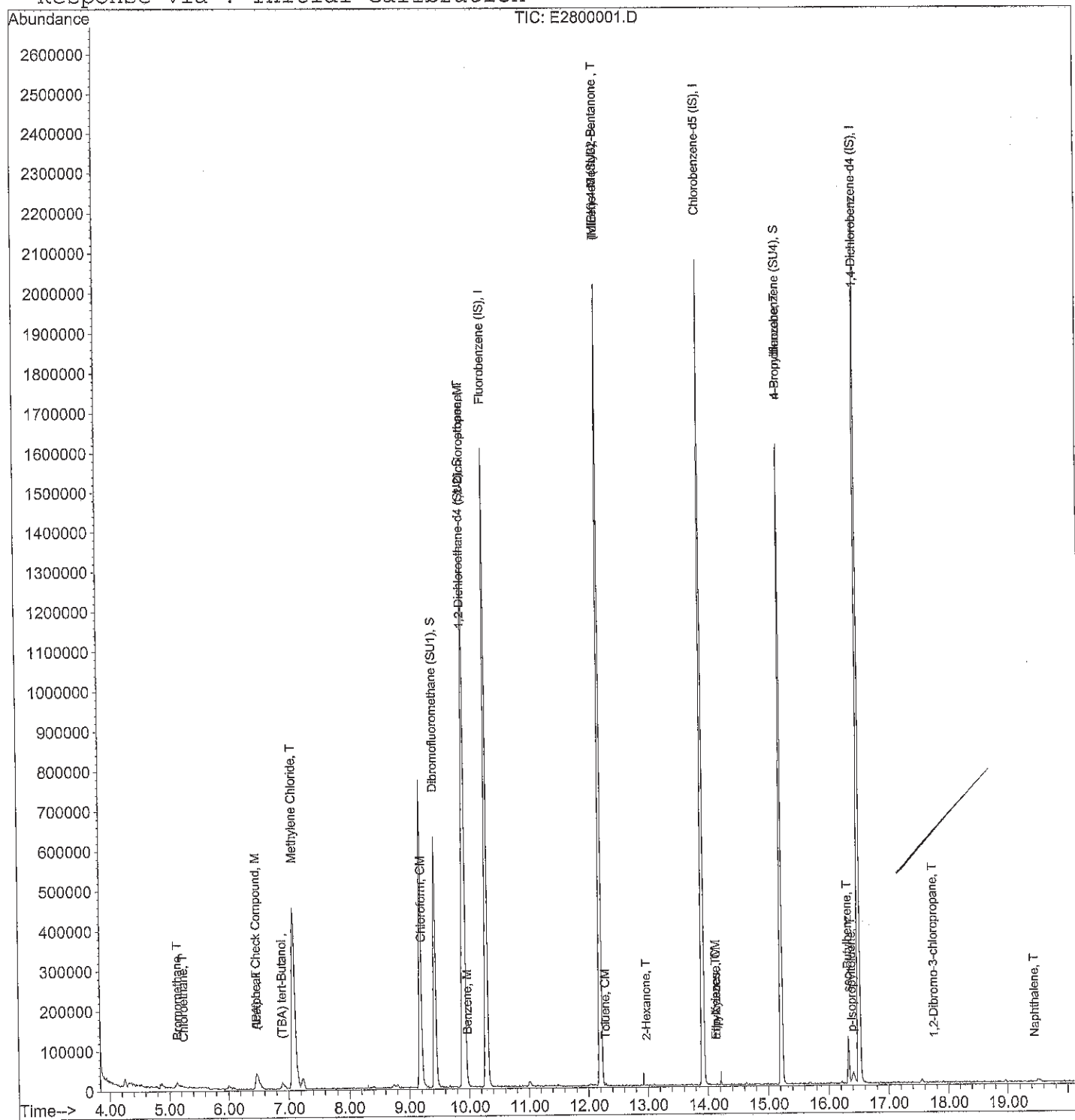
Quantitation Report

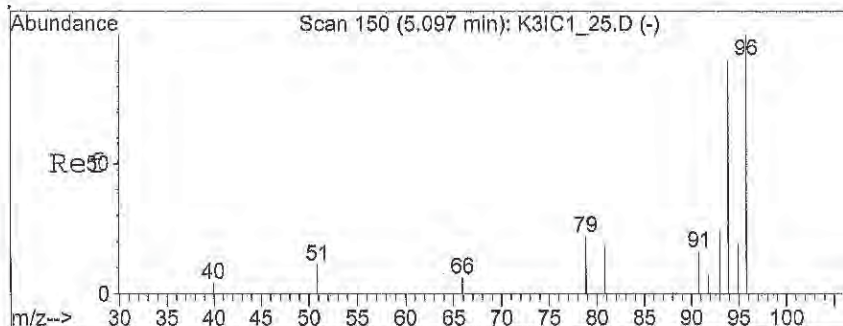
Data File : C:\HPCHEM\1\DATA\052814L3\E2800001.D
 Acq On : 28 May 2014 8:13 am
 Sample : 3E42801-01
 Misc : 100cc Equipment Blank
 MS Integration Params: rteint.p
 Quant Time: May 28 9:13 19114

Vial: 11
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration





#6

Bromomethane

Concen: 0.36 ug/L

RT: 5.16 min Scan# 157

Delta R.T. 0.06 min

Lab File: E2800001.D

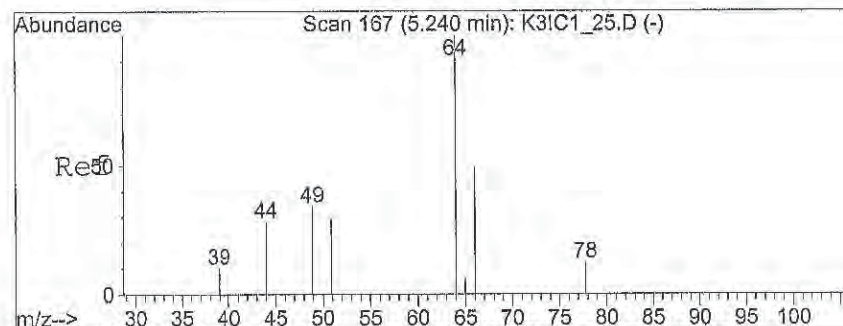
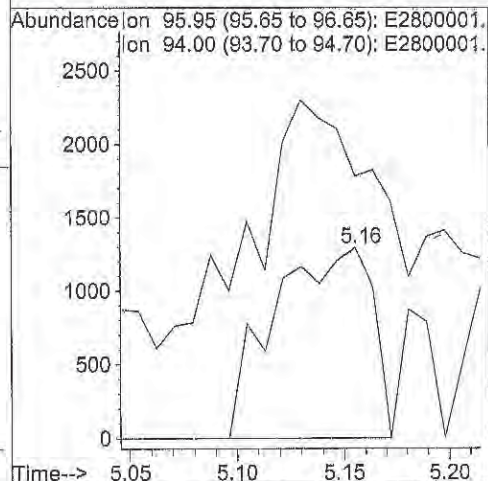
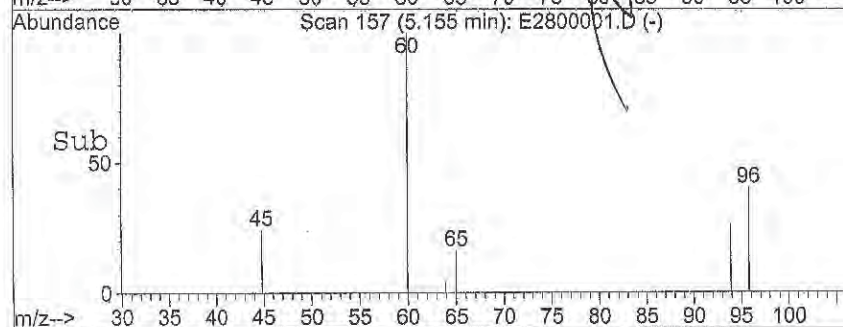
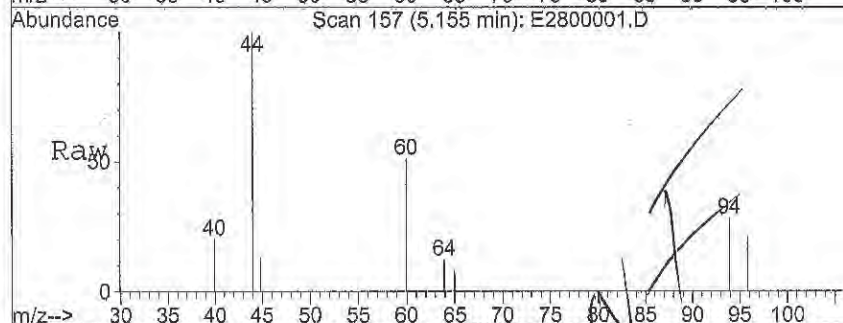
Acq: 28 May 2014 8:13 am

Tgt Ion: 96 Resp: 4146

Ion Ratio Lower Upper

96 100

94 0.0 101.0 151.4#



#7

Chloroethane

Concen: 1.53 ug/L

RT: 5.25 min Scan# 168

Delta R.T. 0.01 min

Lab File: E2800001.D

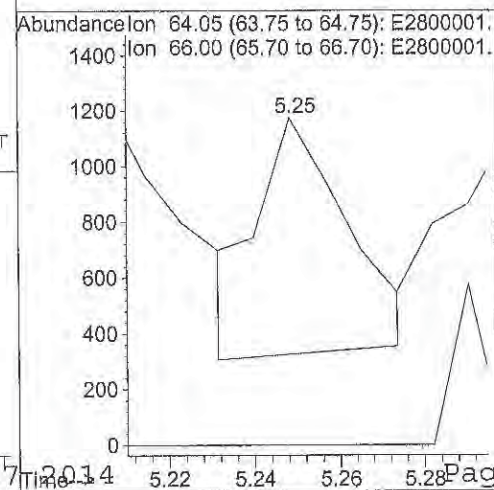
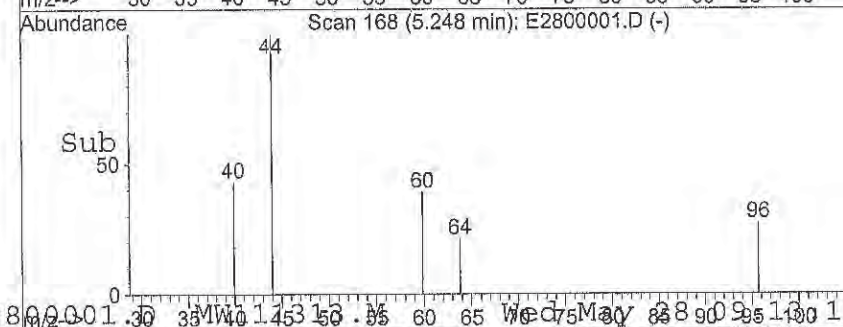
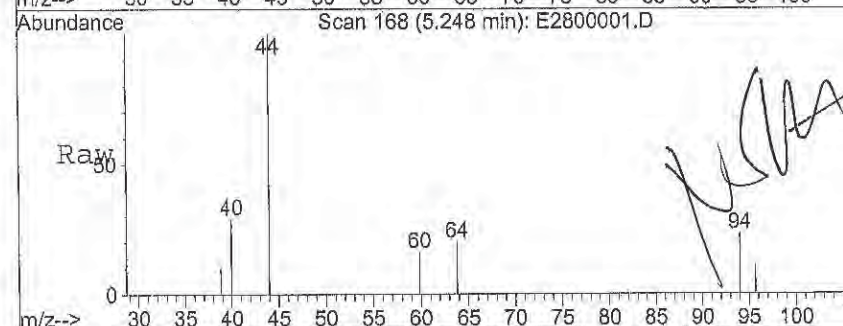
Acq: 28 May 2014 8:13 am

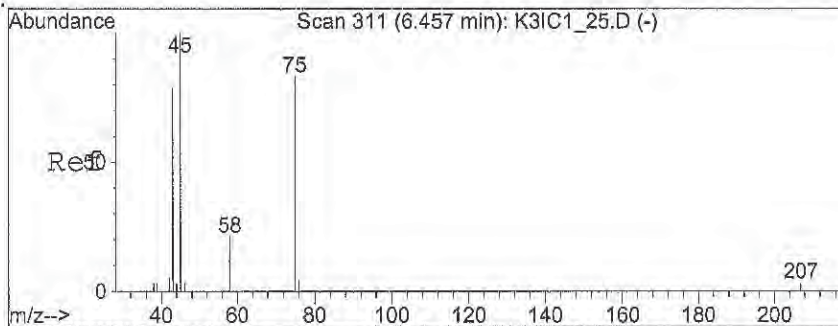
Tgt Ion: 64 Resp: 1246

Ion Ratio Lower Upper

64 100

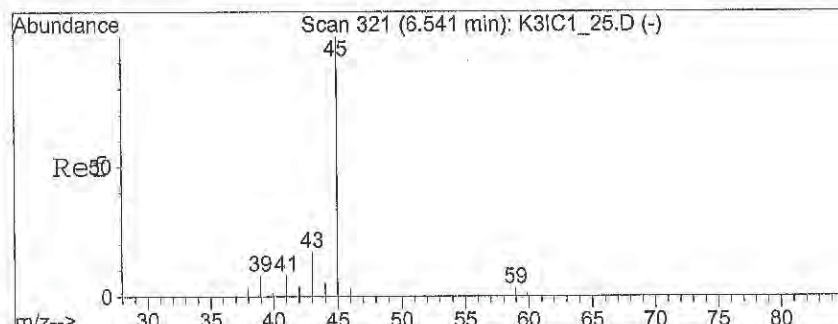
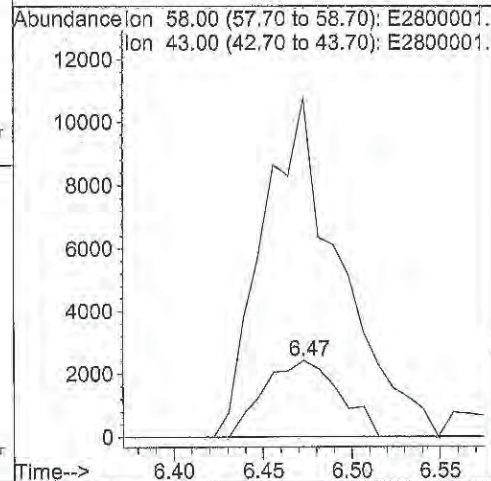
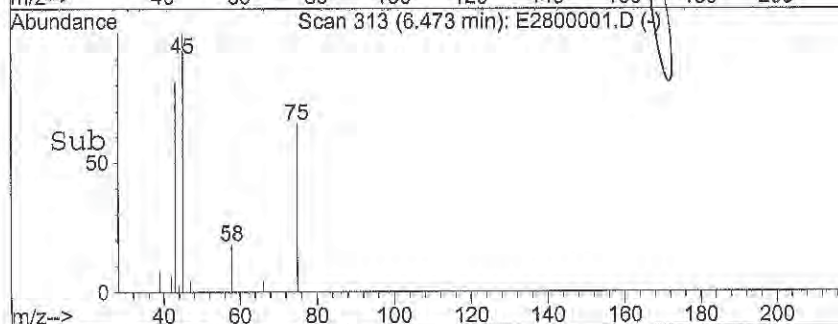
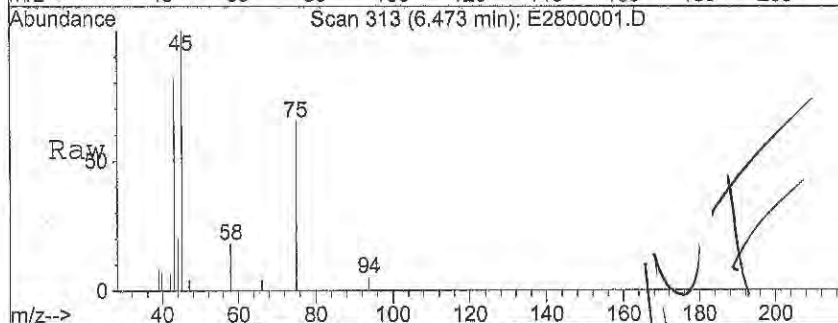
66 0.0 35.4 53.0#





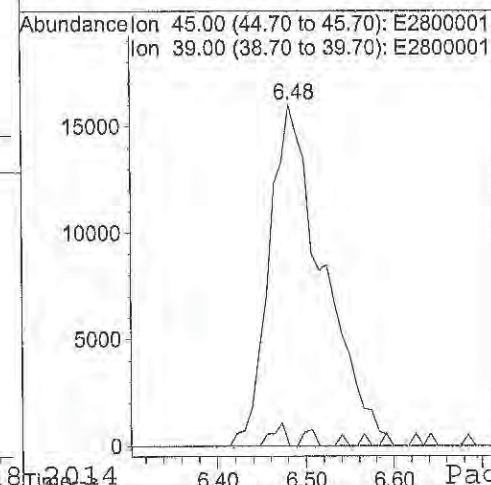
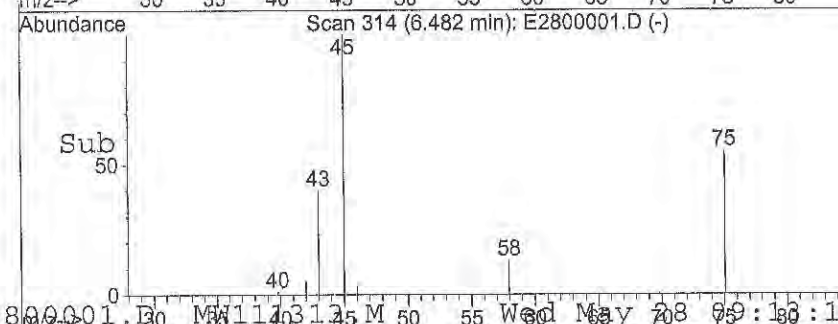
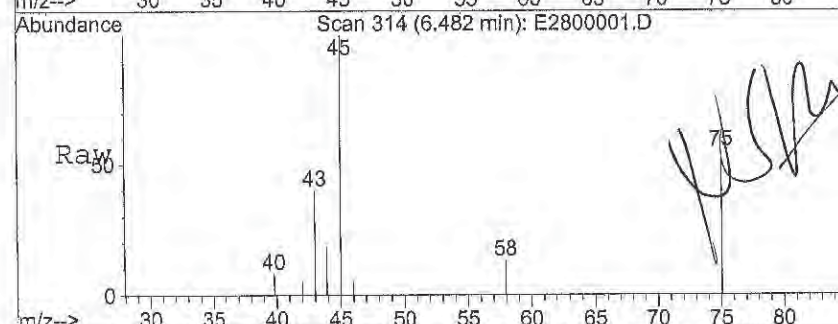
#11
 Acetone
 Concen: 5.54 ug/L
 RT: 6.47 min Scan# 313
 Delta R.T. 0.02 min
 Lab File: E2800001.D
 Acq: 28 May 2014 8:13 am

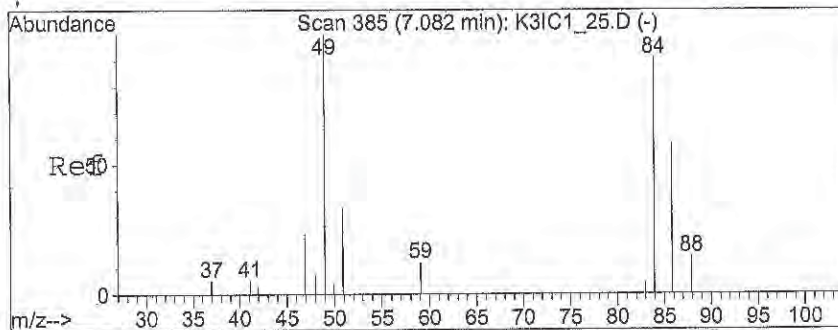
Tgt Ion: 58 Resp: 7159
 Ion Ratio Lower Upper
 58 100
 43 459.5 360.9 541.3



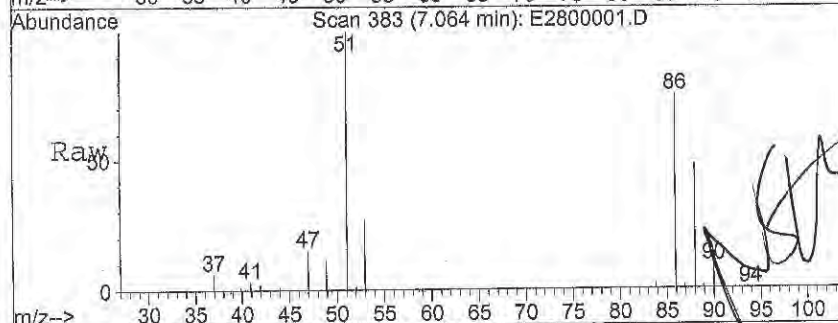
#12
 (IPA) Leak Check Compound
 Concen: 319.44 ug/L
 RT: 6.48 min Scan# 314
 Delta R.T. -0.06 min
 Lab File: E2800001.D
 Acq: 28 May 2014 8:13 am

Tgt Ion: 45 Resp: 67832
 Ion Ratio Lower Upper
 45 100
 39 1.7 4.9 7.3#

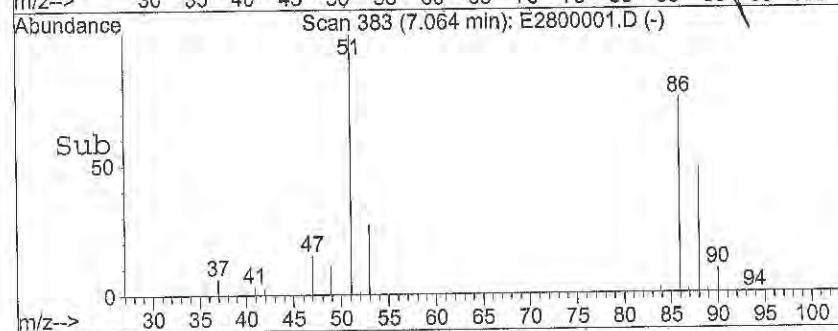




#14
Methylene Chloride
Concen: 1.13 ug/L
RT: 7.06 min Scan# 383
Delta R.T. -0.02 min
Lab File: E2800001.D
Acq: 28 May 2014 8:13 am

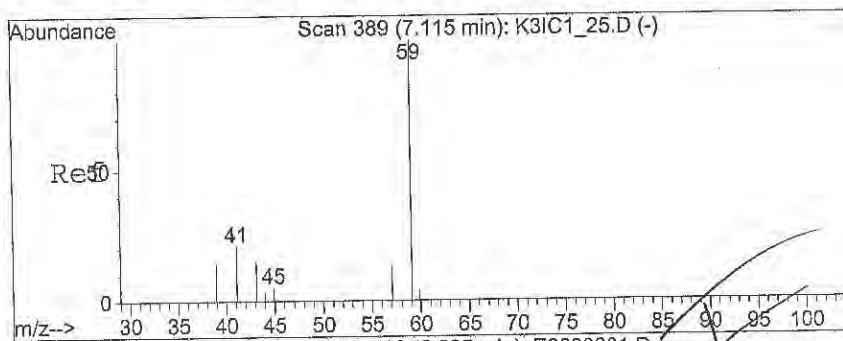
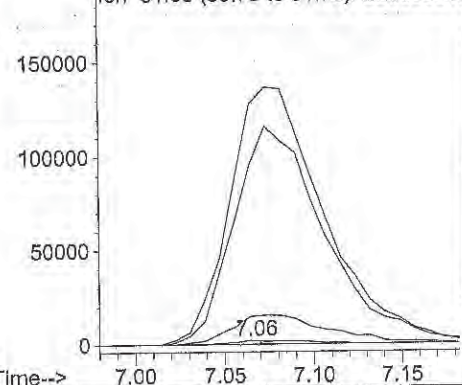


Tgt Ion: 84 Resp: 5508
Ion Ratio Lower Upper
84 100
49 1049.4 89.8 134.6#
86 7519.1 51.1 76.7#
51 9209.5 28.5 42.7#

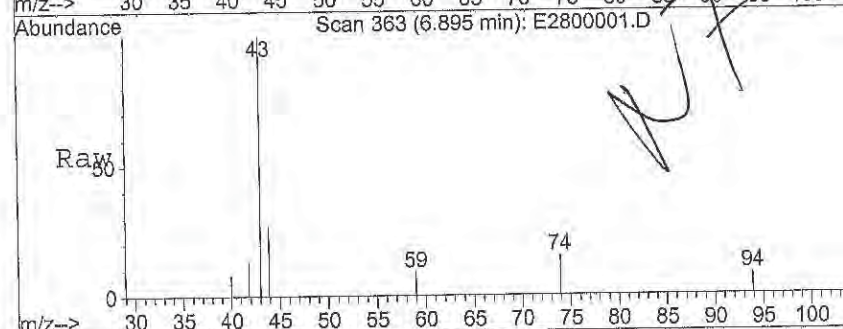


Abundance

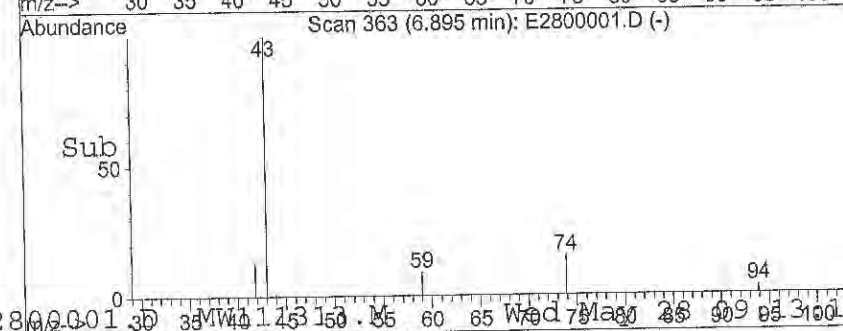
Ion 83.95 (83.65 to 84.65): E2800001.
Ion 48.95 (48.65 to 49.65): E2800001.
Ion 85.95 (85.65 to 86.65): E2800001.
Ion 51.05 (50.75 to 51.75): E2800001.



#15
(TBA) tert-Butanol
Concen: 2.48 ug/L
RT: 6.90 min Scan# 363
Delta R.T. -0.22 min
Lab File: E2800001.D
Acq: 28 May 2014 8:13 am

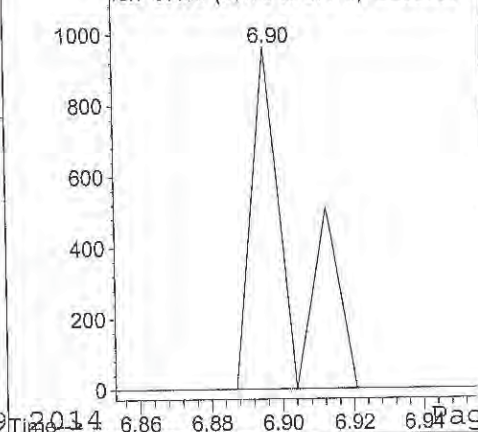


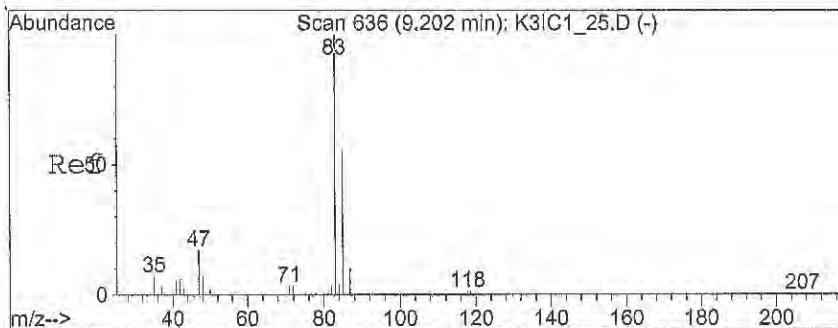
Tgt Ion: 59 Resp: 746
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#



Abundance

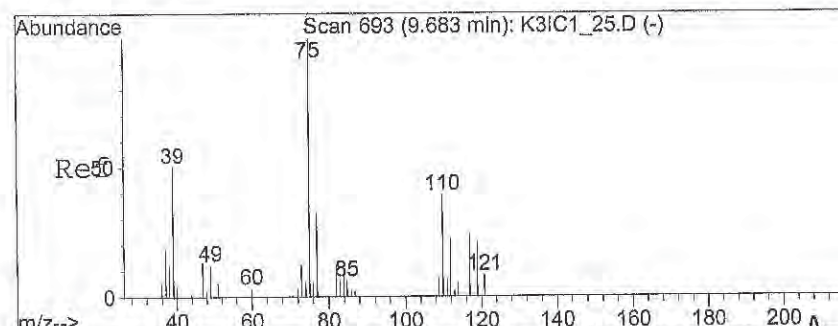
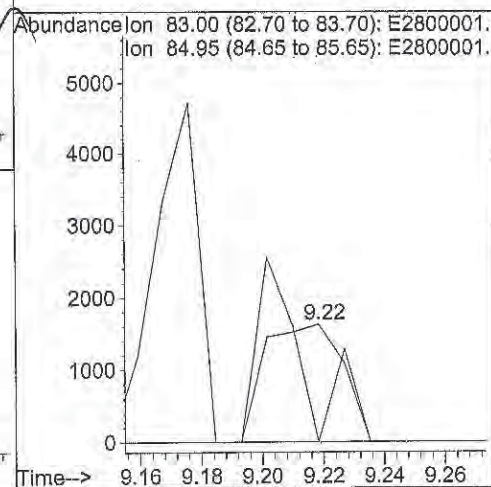
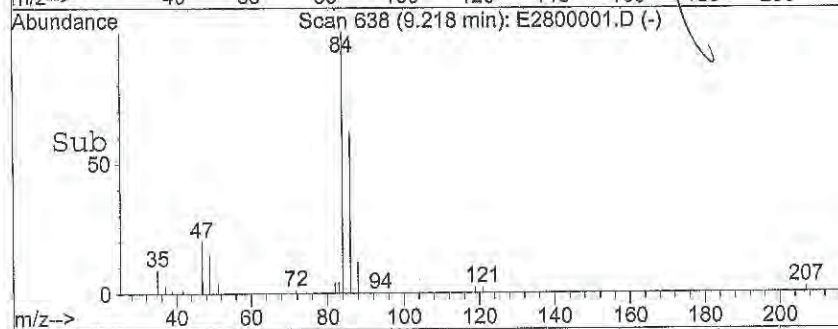
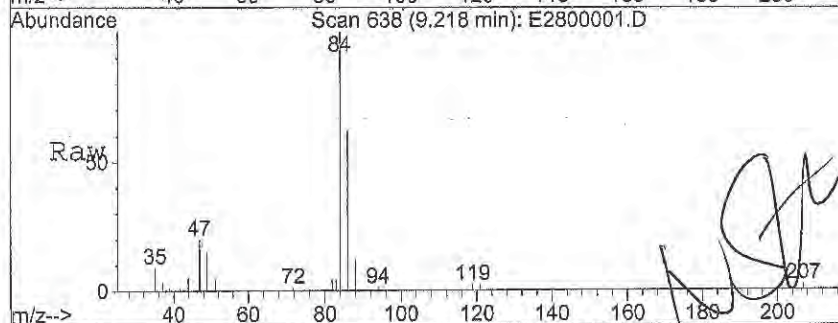
Ion 59.00 (58.70 to 59.70): E2800001.
Ion 57.00 (56.70 to 57.70): E2800001.





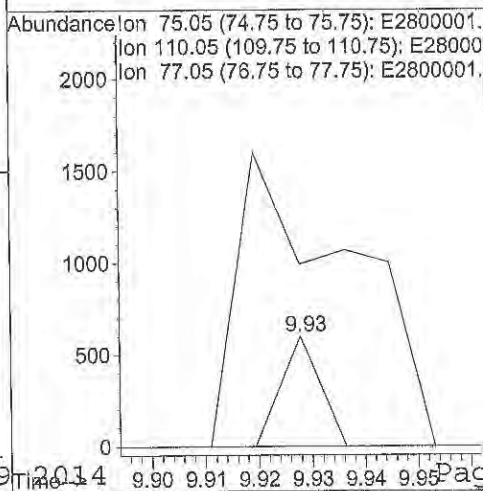
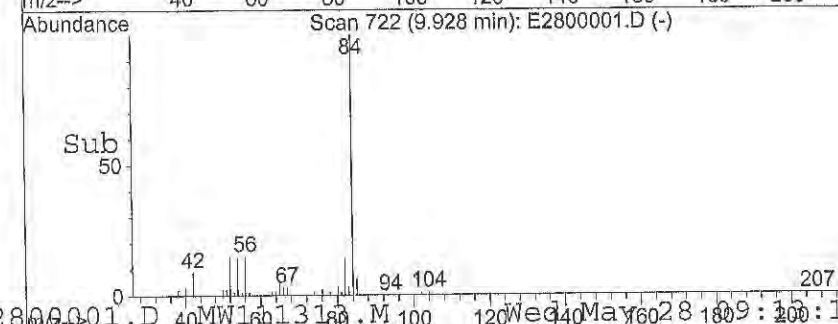
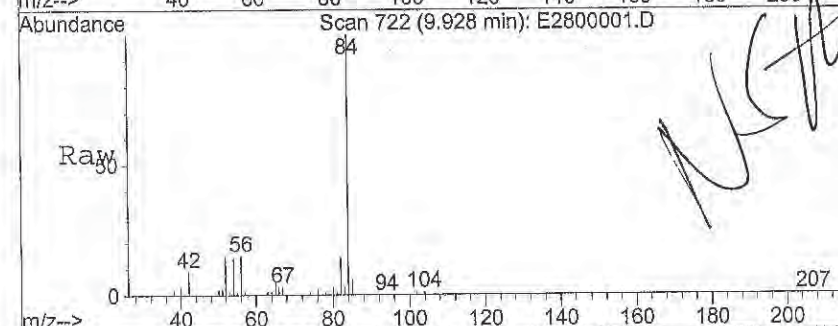
#24
Chloroform
Concen: 0.31 ug/L
RT: 9.22 min Scan# 638
Delta R.T. 0.02 min
Lab File: E2800001.D
Acq: 28 May 2014 8:13 am

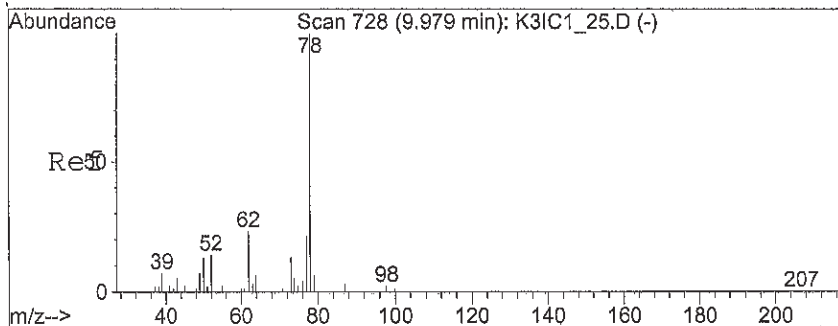
Tgt Ion: 83 Resp: 2878
Ion Ratio Lower Upper
83 100
85 96.0 51.8 77.6#



#29
1,1-Dichloropropene
Concen: 0.04 ug/L
RT: 9.93 min Scan# 722
Delta R.T. 0.24 min
Lab File: E2800001.D
Acq: 28 May 2014 8:13 am

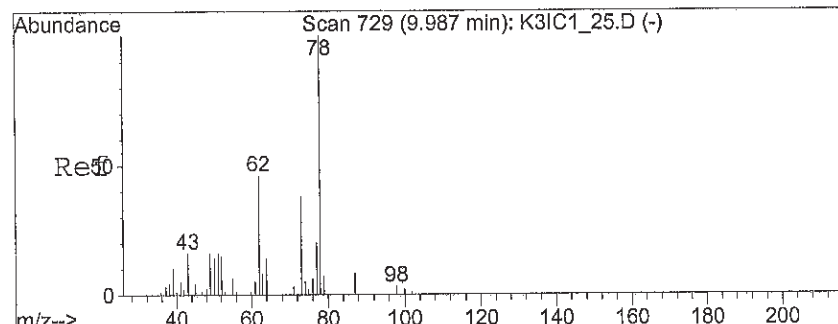
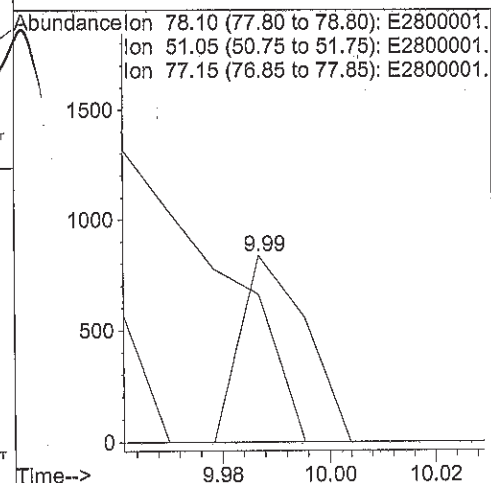
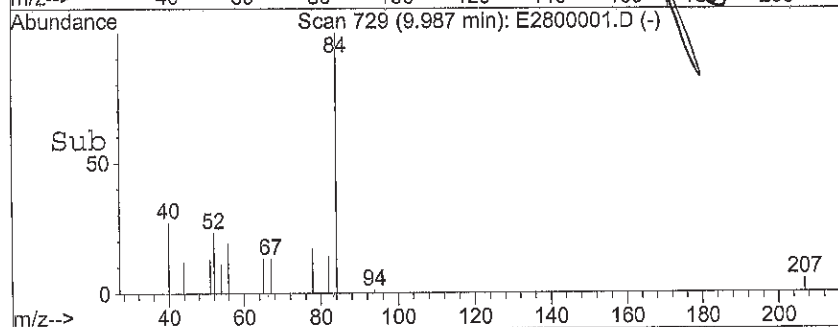
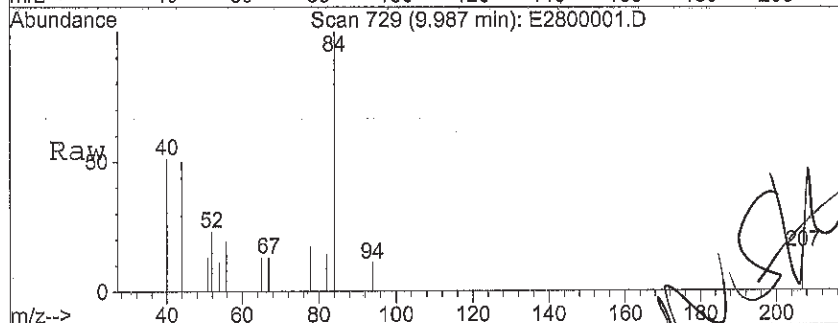
Tgt Ion: 75 Resp: 304
Ion Ratio Lower Upper
75 100
110 0.0 29.0 43.6#
77 777.6 25.0 37.4#





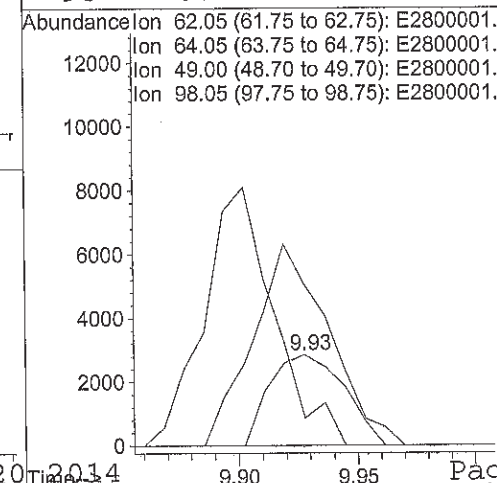
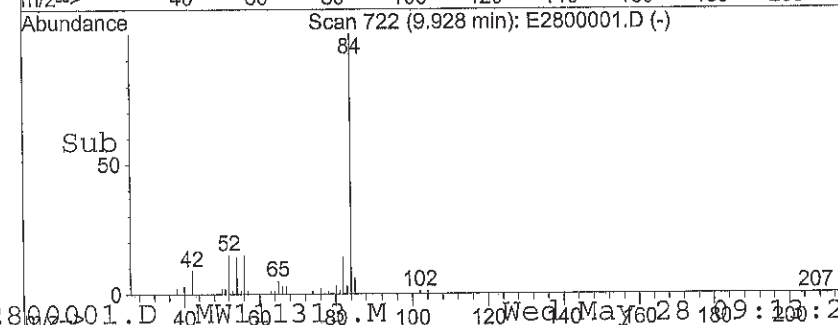
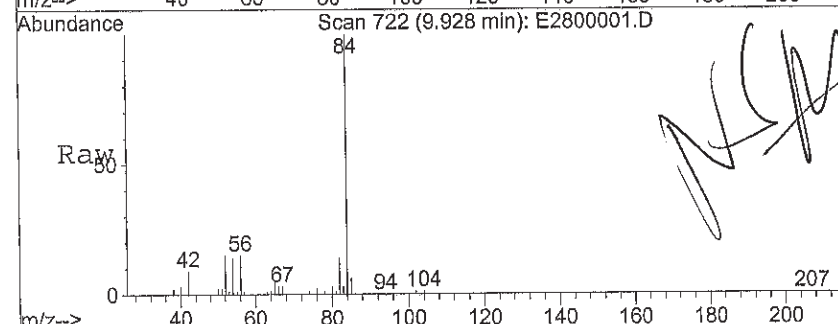
#31
Benzene
Concen: 0.04 ug/L
RT: 9.99 min Scan# 729
Delta R.T. 0.01 min
Lab File: E2800001.D
Acq: 28 May 2014 8:13 am

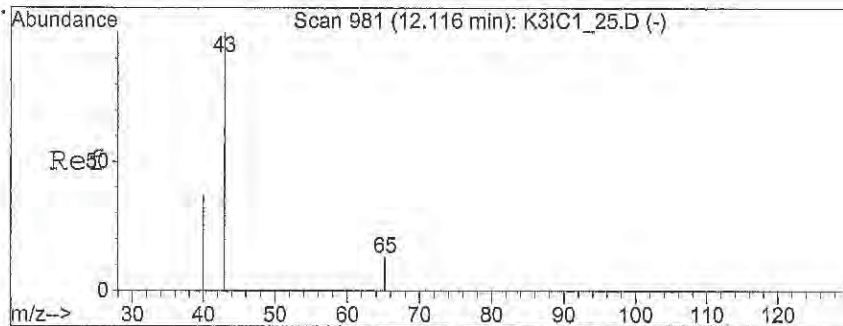
Tgt Ion: 78 Resp: 706
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 0.0 16.6 24.8#



#32
1,2-Dichloroethane
Concen: 1.05 ug/L
RT: 9.93 min Scan# 722
Delta R.T. -0.06 min
Lab File: E2800001.D
Acq: 28 May 2014 8:13 am

Tgt Ion: 62 Resp: 6196
Ion Ratio Lower Upper
62 100
64 226.1 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#





#40

(MIBK) 4-Methyl-2-Pentanone

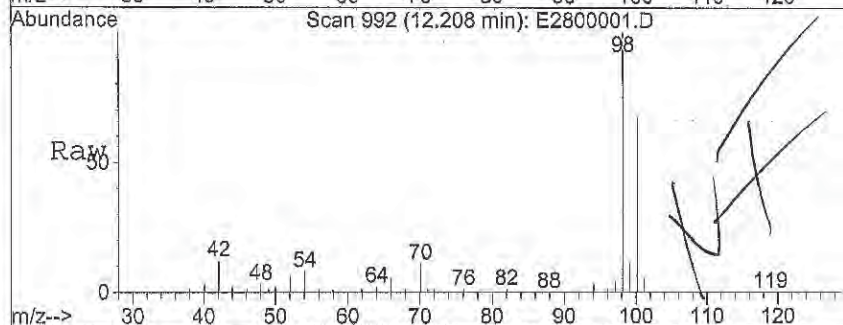
Concen: 2.96 ug/L

RT: 12.21 min Scan# 992

Delta R.T. 0.09 min

Lab File: E2800001.D

Acq: 28 May 2014 8:13 am



Tgt Ion: 43 Resp: 7862

Ion Ratio Lower Upper

43	100		
58	149.7	0.0	0.0#
85	0.0	0.0	0.0
100	13142.5	0.0	0.0#

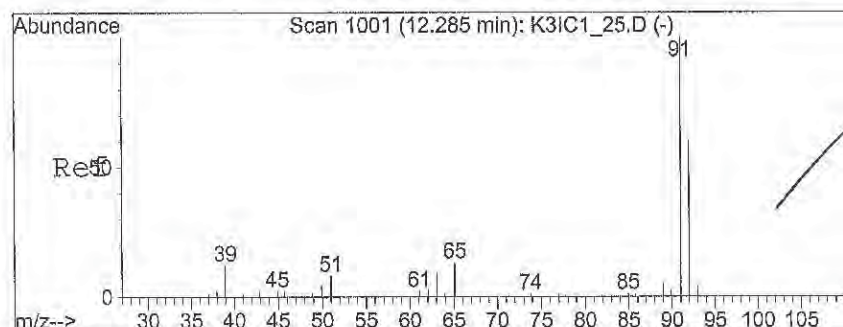
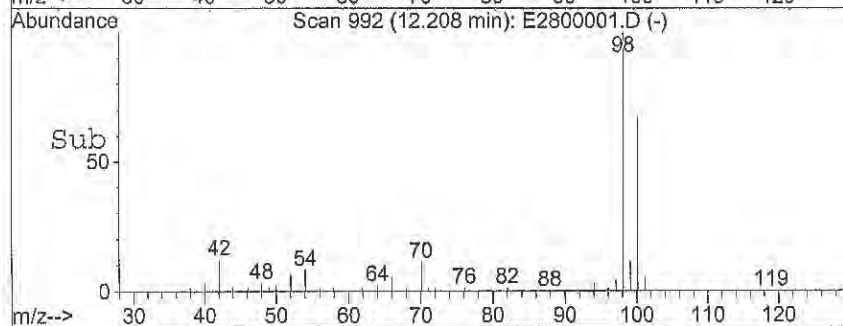
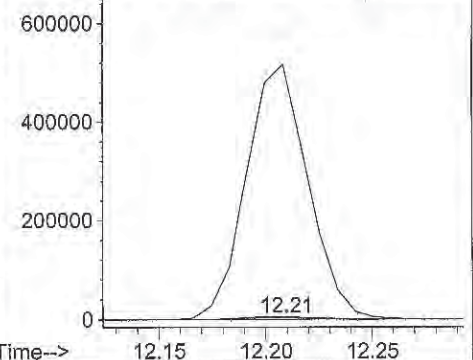
Abundance

Ion 43.00 (42.70 to 43.70): E2800001.D

Ion 58.10 (57.80 to 58.80): E2800001.D

Ion 85.05 (84.75 to 85.75): E2800001.D

Ion 100.15 (99.85 to 100.85): E2800001.D



#41

Toluene

Concen: 0.15 ug/L

RT: 12.29 min Scan# 1002

Delta R.T. 0.01 min

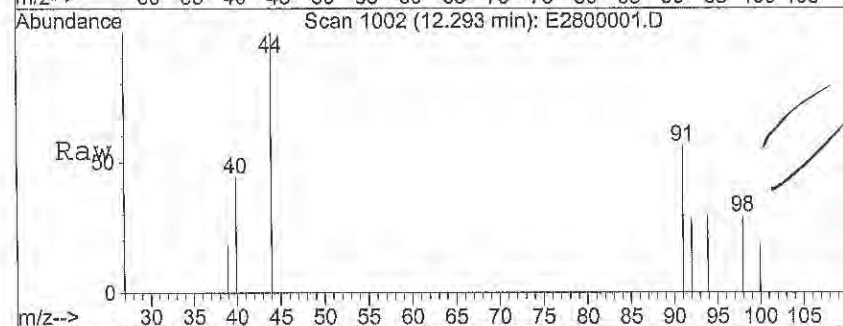
Lab File: E2800001.D

Acq: 28 May 2014 8:13 am

Tgt Ion: 91 Resp: 2749

Ion Ratio Lower Upper

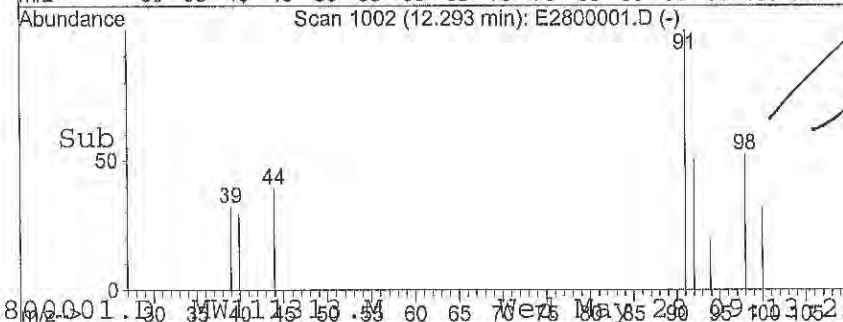
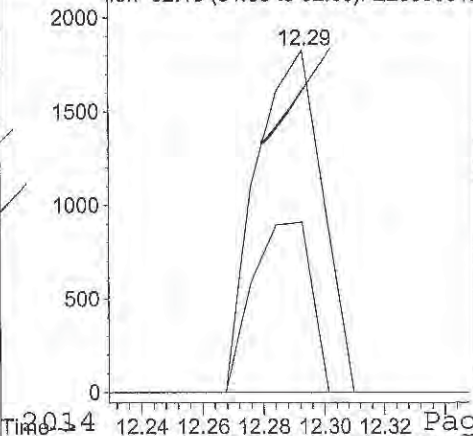
91	100		
92	43.9	47.4	71.0#

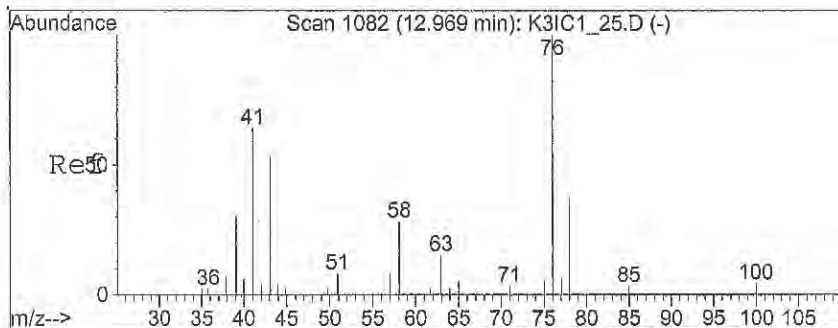


Abundance

Ion 91.10 (90.80 to 91.80): E2800001.D

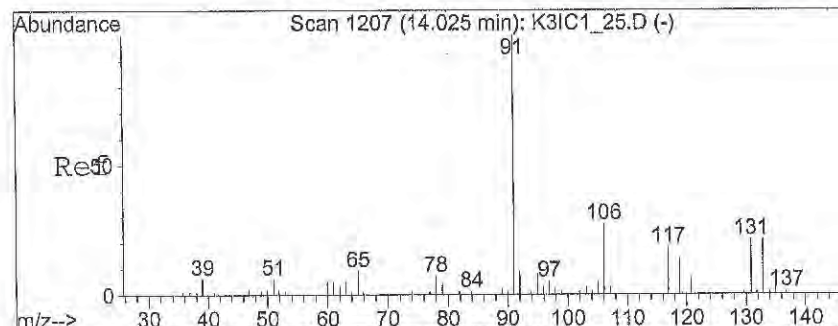
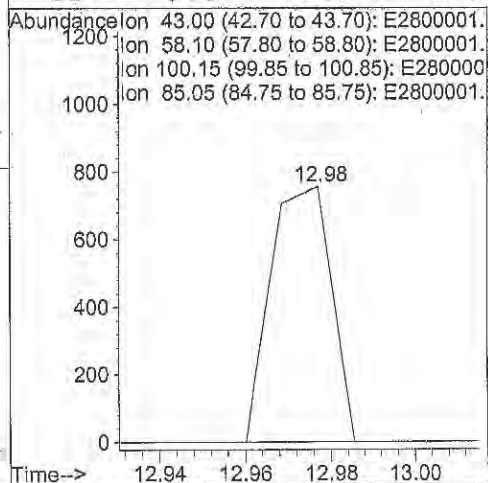
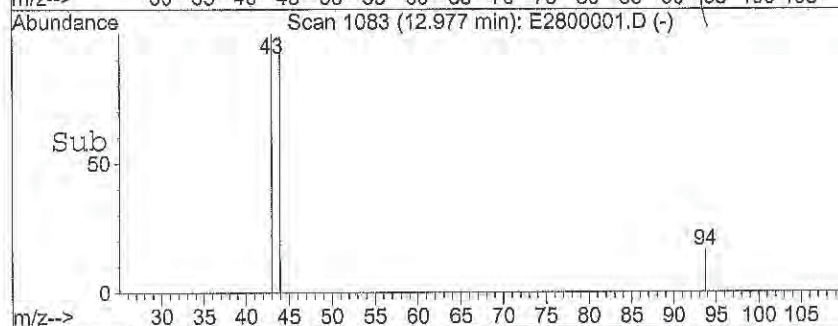
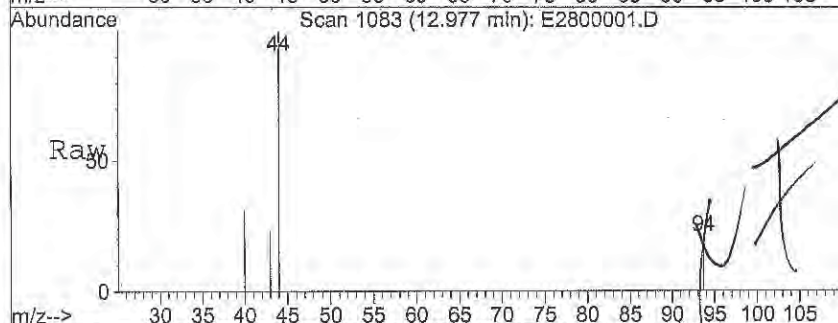
Ion 92.10 (91.80 to 92.80): E2800001.D





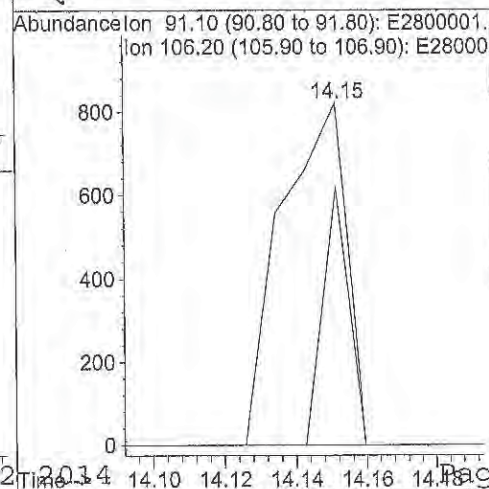
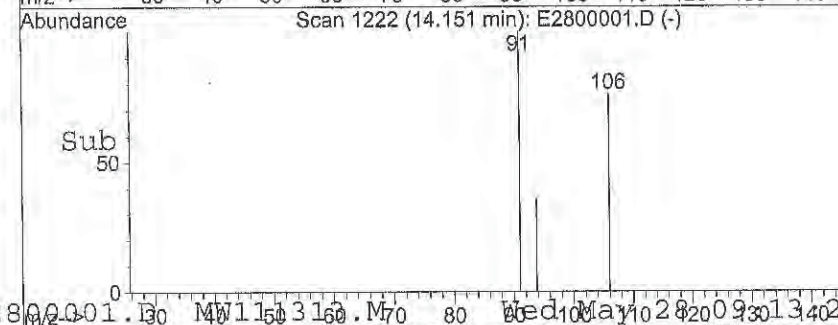
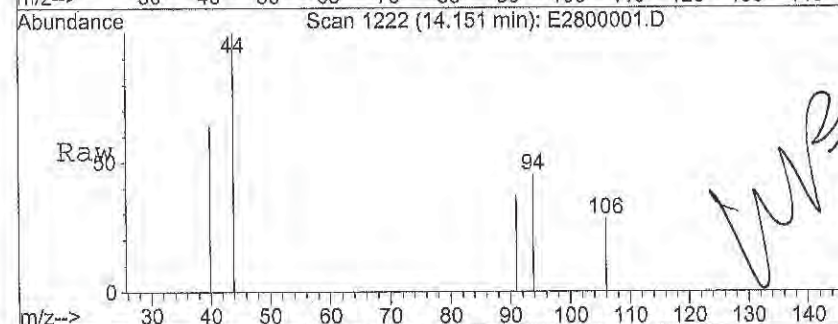
#46
2-Hexanone
Concen: 0.25 ug/L
RT: 12.98 min Scan# 1083
Delta R.T. 0.01 min
Lab File: E2800001.D
Acq: 28 May 2014 8:13 am

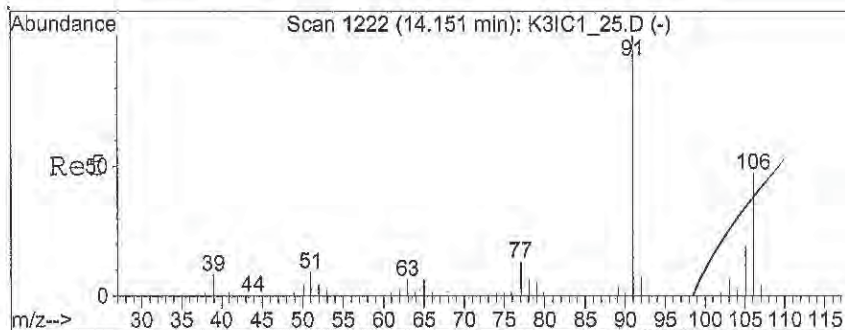
Tgt Ion: 43 Resp: 741
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#



#51
Ethylbenzene
Concen: 0.05 ug/L
RT: 14.15 min Scan# 1222
Delta R.T. 0.13 min
Lab File: E2800001.D
Acq: 28 May 2014 8:13 am

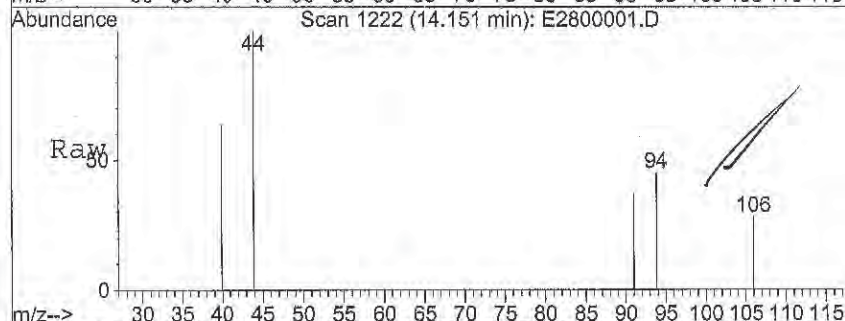
Tgt Ion: 91 Resp: 1034
Ion Ratio Lower Upper
91 100
106 30.4 23.5 35.3



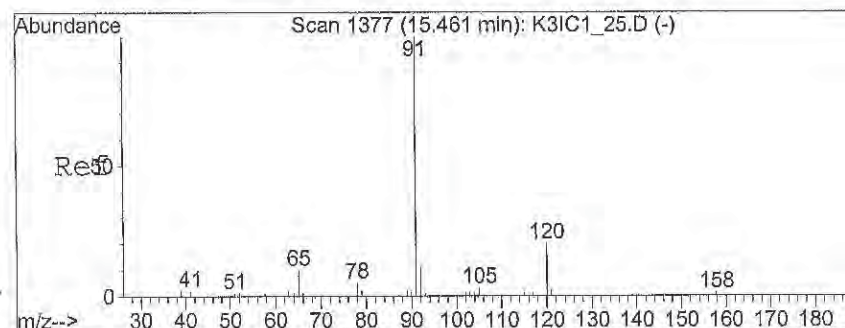
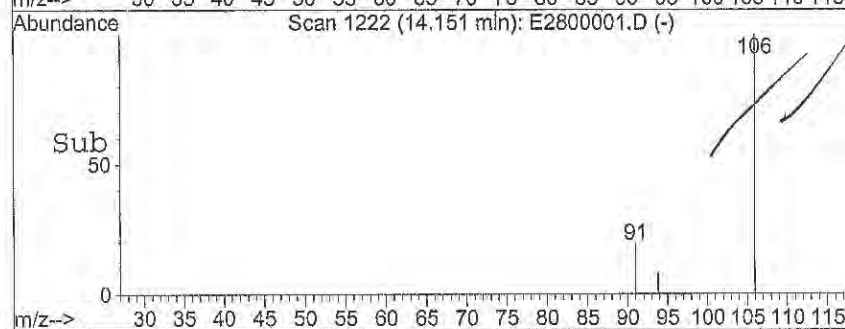
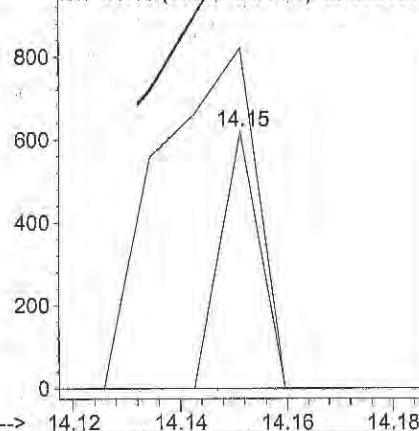


#52
m,p-Xylenes
Concen: 0.04 ug/L
RT: 14.15 min Scan# 1222
Delta R.T. -0.00 min
Lab File: E2800001.D
Acq: 28 May 2014 8:13 am

Tgt Ion: 106 Resp: 314
Ion Ratio Lower Upper
106 100
91 329.3 177.1 265.7#

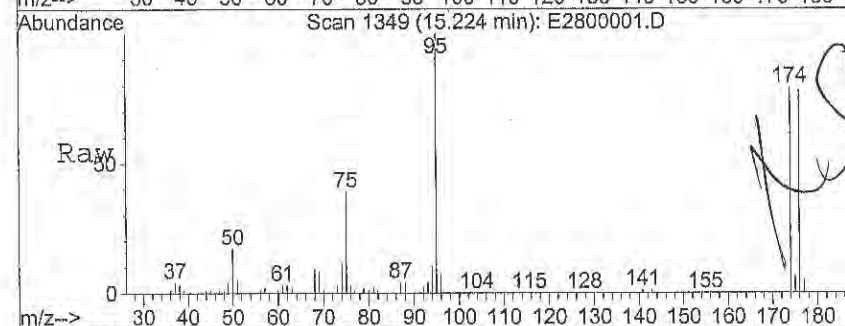


Abundance Ion 106.10 (105.80 to 106.80): E280000
Ion 91.10 (90.80 to 91.80): E2800001.

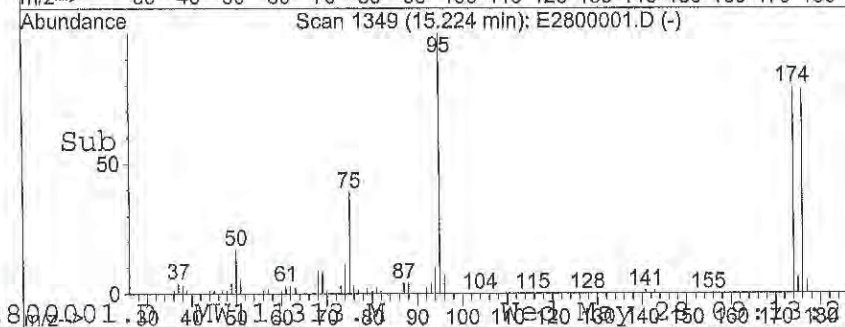
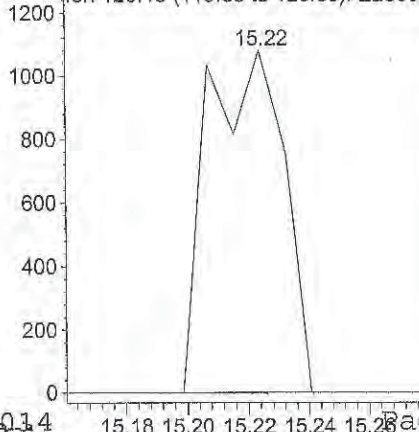


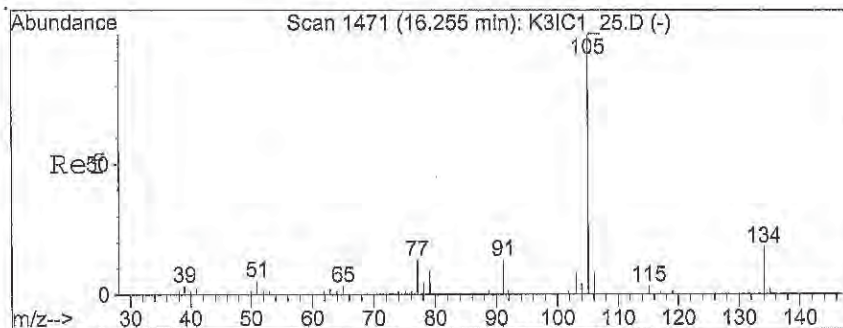
#62
n-Propylbenzene
Concen: 0.07 ug/L
RT: 15.22 min Scan# 1349
Delta R.T. -0.24 min
Lab File: E2800001.D
Acq: 28 May 2014 8:13 am

Tgt Ion: 91 Resp: 1869
Ion Ratio Lower Upper
91 100
120 0.0 16.1 24.1#



Abundance Ion 91.10 (90.80 to 91.80): E2800001.
Ion 120.15 (119.85 to 120.85): E280000





#68

sec-Butylbenzene

Concen: 0.06 ug/L

RT: 16.33 min Scan# 1480

Delta R.T. 0.08 min

Lab File: E2800001.D

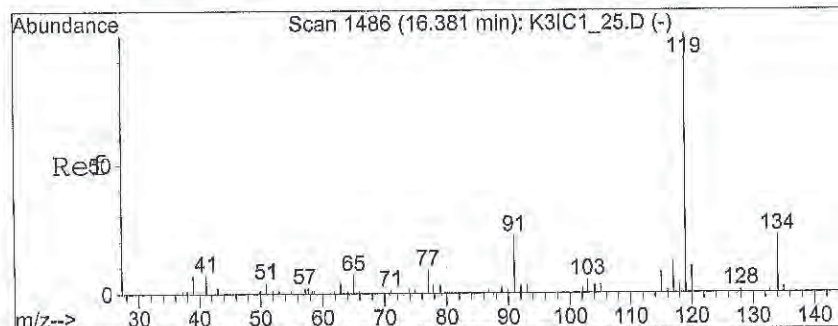
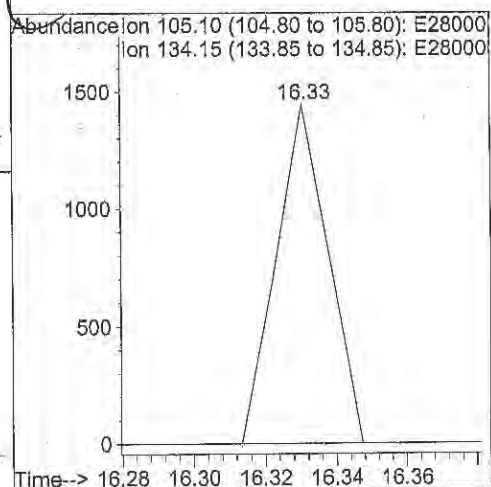
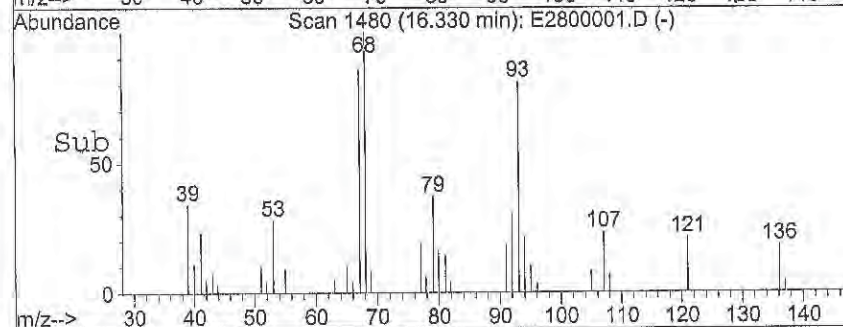
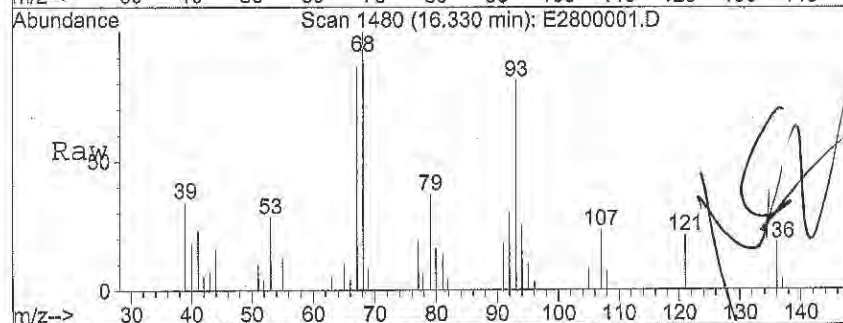
Acq: 28 May 2014 8:13 am

Tgt Ion:105 Resp: 1441

Ion Ratio Lower Upper

105 100

134 0.0 13.0 19.6#



#69

p-Isopropyltoluene

Concen: 0.04 ug/L

RT: 16.38 min Scan# 1486

Delta R.T. -0.00 min

Lab File: E2800001.D

Acq: 28 May 2014 8:13 am

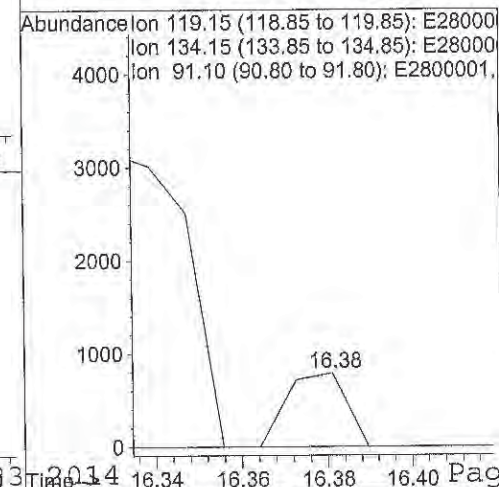
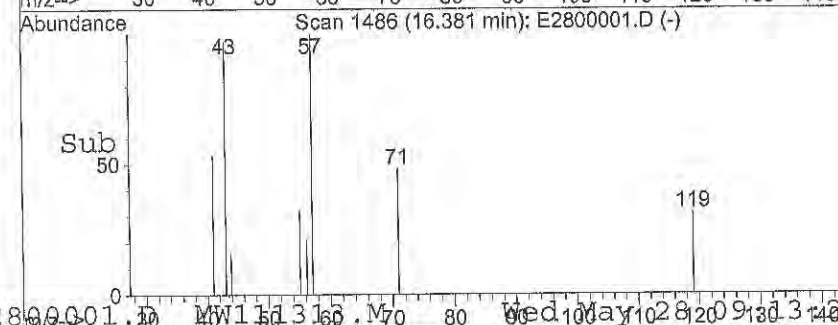
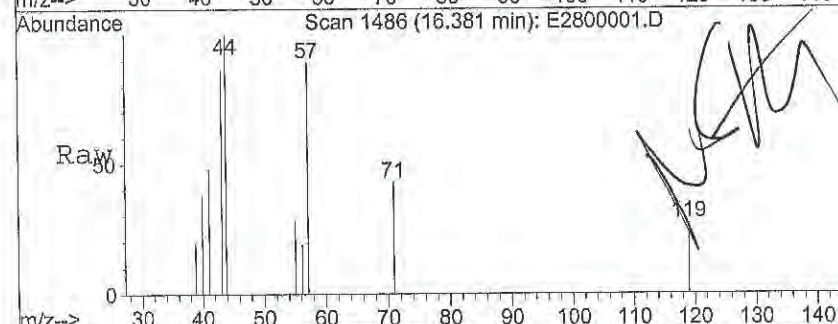
Tgt Ion:119 Resp: 764

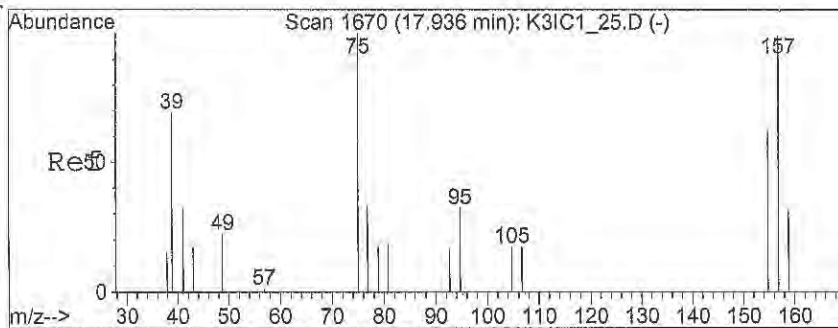
Ion Ratio Lower Upper

119 100

134 0.0 17.4 26.2#

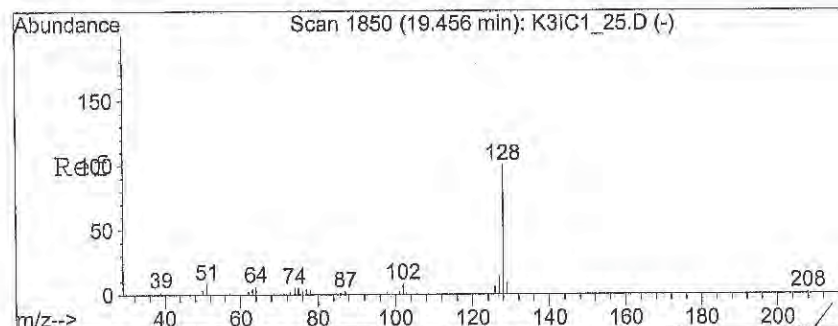
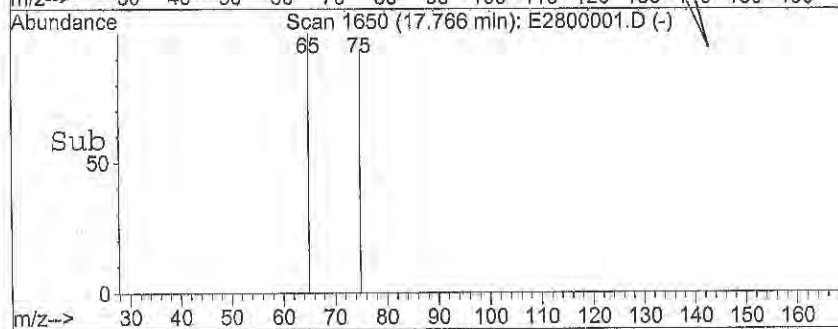
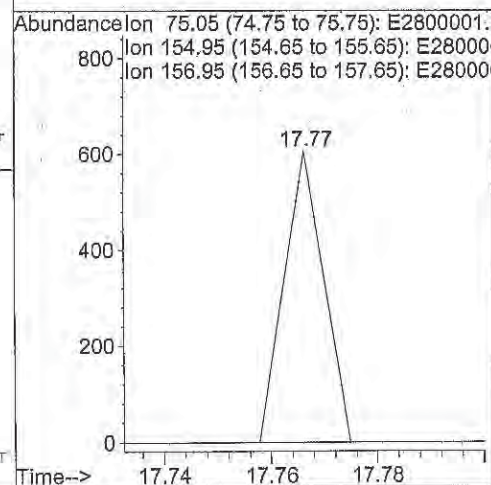
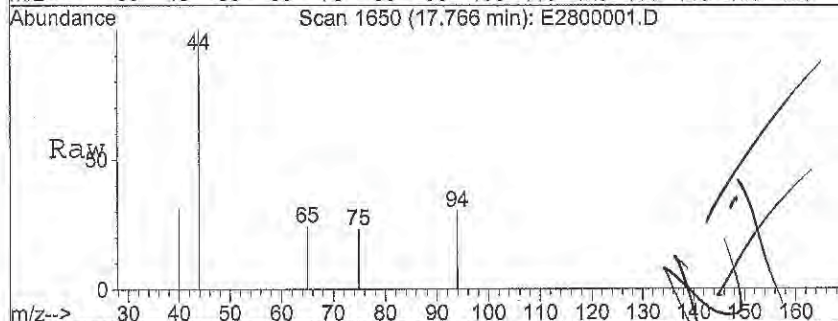
91 0.0 19.6 29.4#





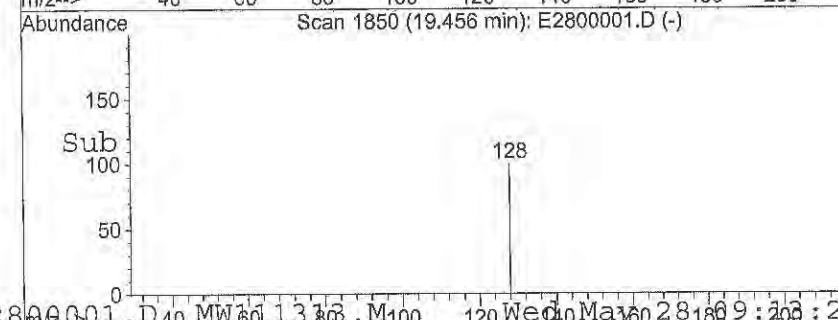
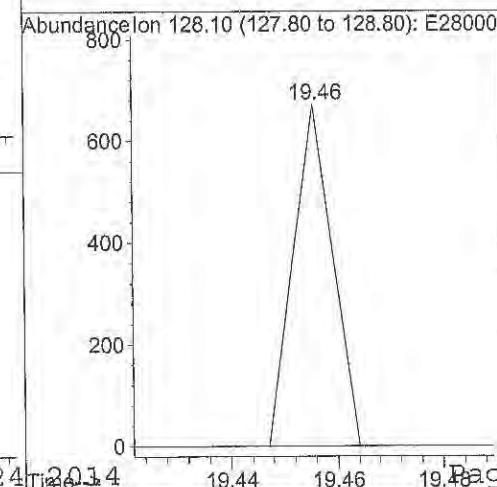
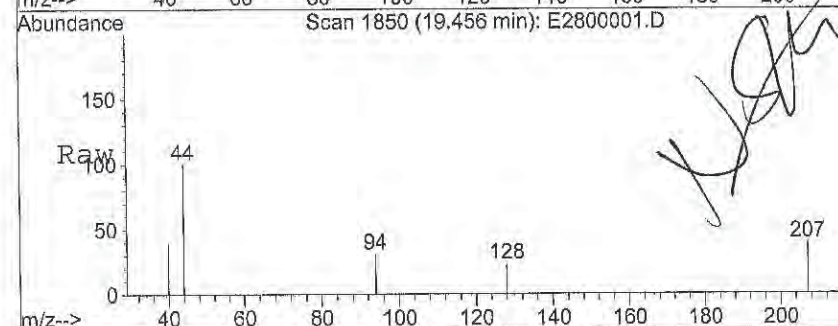
#74
 1,2-Dibromo-3-chloropropane
 Concen: 1.27 ug/L
 RT: 17.77 min Scan# 1650
 Delta R.T. -0.17 min
 Lab File: E2800001.D
 Acq: 28 May 2014 8:13 am

Tgt Ion: 75 Resp: 307
 Ion Ratio Lower Upper
 75 100
 155 0.0 59.2 88.8#
 157 0.0 77.0 115.6#



#77
 Naphthalene
 Concen: 0.02 ug/L
 RT: 19.46 min Scan# 1850
 Delta R.T. -0.00 min
 Lab File: E2800001.D
 Acq: 28 May 2014 8:13 am

Tgt Ion: 128 Resp: 341



Data File : C:\HPCHEM\1\DATA\052814L3\E2800001.D

Vial: 11

Acq On : 28 May 2014 8:13 am

Operator: DN

Sample : 3E42801-01

Inst : GC/MS Ins

Misc : 100cc Equipment Blank

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 9:12 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1767160	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.91	117	1332346	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	691087	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	484006	10.53	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	84.24%
3) Chloroform-d (SU6)	9.18	84	734985	11.15	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	89.20%
4) Methylene Chloride-d2 (SU5)	7.07	86	414154	10.75	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	86.00%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	470035	14.97	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	119.76%
6) Benzene-d6 (SU7)	9.93	84	1424963	10.28	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	82.24%
8) Toluene-d8 (SU3)	12.21	98	1528587	12.09	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.72%
9) 4-Bromofluorobenzene (SU4)	15.22	95	724152	13.88	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	111.04%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2800001.D SS072713.M

Wed May 28 09:12:36 2014

Page 1

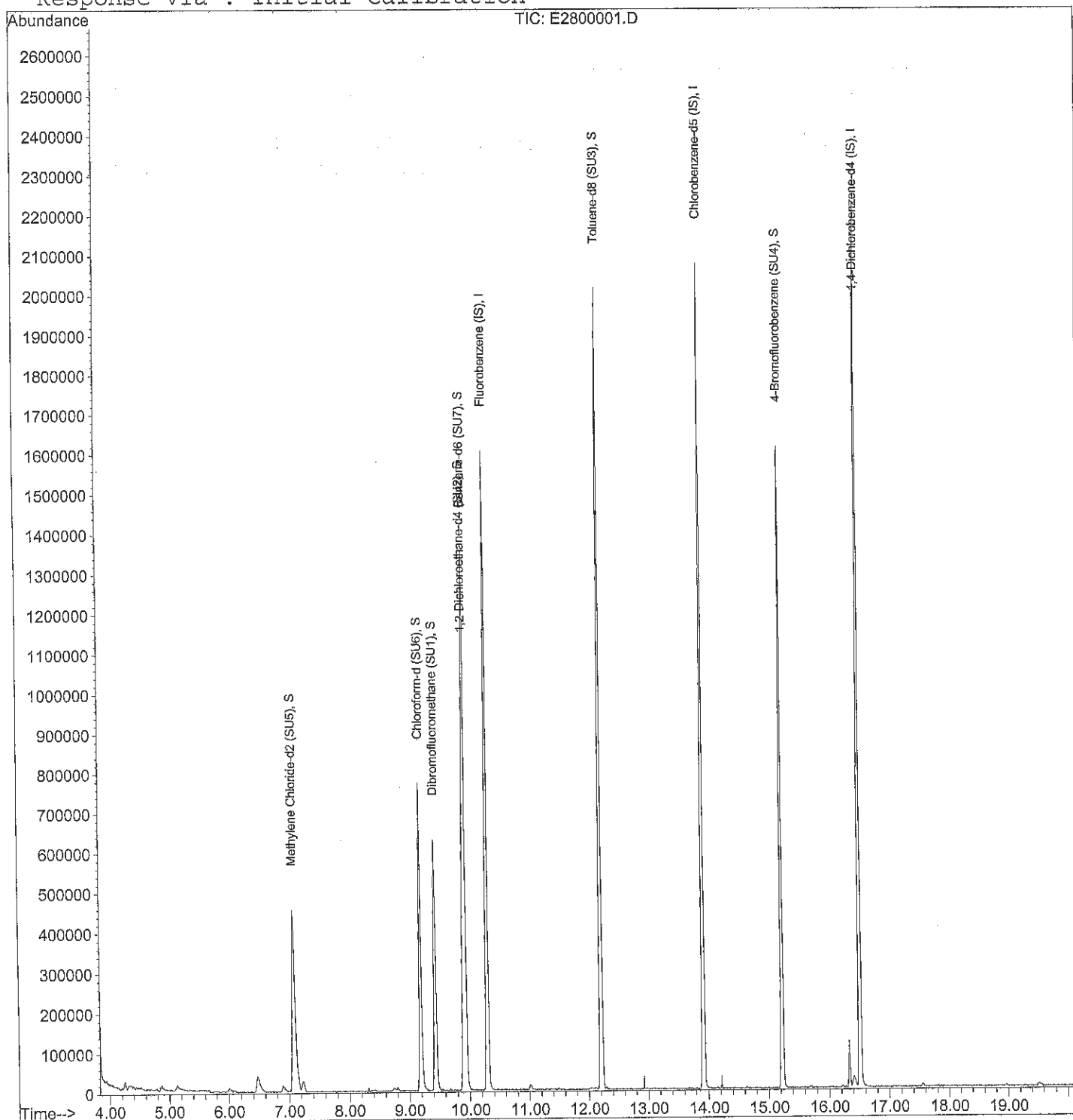
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800001.D
 Acq On : 28 May 2014 8:13 am
 Sample : 3E42801-01
 Misc : 100cc Equipment Blank
 MS Integration Params: rteint.p
 Quant Time: May 28 9:12 19114

Vial: 11
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052814L3\E2800002.D

Vial: 1

Acq On : 28 May 2014 8:47 am

Operator: DN

Sample : 3E42801-02

Inst : GC/MS Ins

Misc : 100cc SVL-515-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 9:14 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1628814	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1280080	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	672692	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	473247	11.65	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	93.20%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	471749	12.22	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	97.76%
39) Toluene-d8 (SU3)	12.21	98	1410542	11.81	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.48%
58) 4-Bromofluorobenzene (SU4)	15.21	95	700102	13.37	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	106.96%

Target Compounds

					Qvalue
3) (F12) Dichlorodifluorometh	4.17	85	309	0.08 ug/L #	44
4) Chloromethane	4.39	50	1164	-0.80 ug/L #	41
6) Bromomethane	5.11	96	1662	-0.85 ug/L #	1
7) Chloroethane	5.25	64	4511	4.02 ug/L #	32
11) Acetone	6.46	58	7704	7.45 ug/L #	88
12) (IPA) Leak Check Compound	6.49	45	93153	475.94 ug/L #	83
13) Carbon disulfide	6.85	76	1311	0.10 ug/L #	76
14) Methylene Chloride	7.09	84	6524	1.46 ug/L #	1
15) (TBA) tert-Butanol	6.95	59	354	1.27 ug/L #	77
24) Chloroform	9.23	83	1652	0.19 ug/L #	18
29) 1,1-Dichloropropene	9.94	75	777	0.12 ug/L #	1
31) Benzene	9.99	78	1147	0.07 ug/L #	79
32) 1,2-Dichloroethane	9.92	62	6151	1.13 ug/L #	1
40) (MIBK) 4-Methyl-2-Pentanone	12.21	43	7286	2.85 ug/L #	100
41) Toluene	12.29	91	4573	0.26 ug/L #	100
46) 2-Hexanone	12.97	43	415	0.15 ug/L #	37
51) Ethylbenzene	14.02	91	3307	0.17 ug/L #	45
52) m,p-Xylenes	14.15	106	2542	0.36 ug/L #	99
53) o-Xylene	14.62	106	1697	0.24 ug/L #	90
54) Styrene	14.62	104	1312	-0.75 ug/L #	41
56) Isopropylbenzene	15.21	105	1657	0.09 ug/L #	1
62) n-Propylbenzene	15.46	91	832	0.03 ug/L #	56

(#)= qualifier out of range (m)= manual integration

Data File : C:\HPCHEM\1\DATA\052814L3\E2800002.D

Vial: 1

Acq On : 28 May 2014 8:47 am

Operator: DN

Sample : 3E42801-02

Inst : GC/MS Ins

Misc : 100cc SVL-515-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 9:14 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63) 2-Chlorotoluene	15.46	91	832	0.05	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.54	105	648	0.04	ug/L #	31
67) 1,2,4-Trimethylbenzene	16.06	105	1569	0.09	ug/L #	33
68) sec-Butylbenzene	16.33	105	2565	0.11	ug/L #	62
69) p-Isopropyltoluene	16.38	119	1963	0.11	ug/L #	52

(#) = qualifier out of range (m) = manual integration

E2800002.D MW111313.M

Wed May 28 09:14:46 2014

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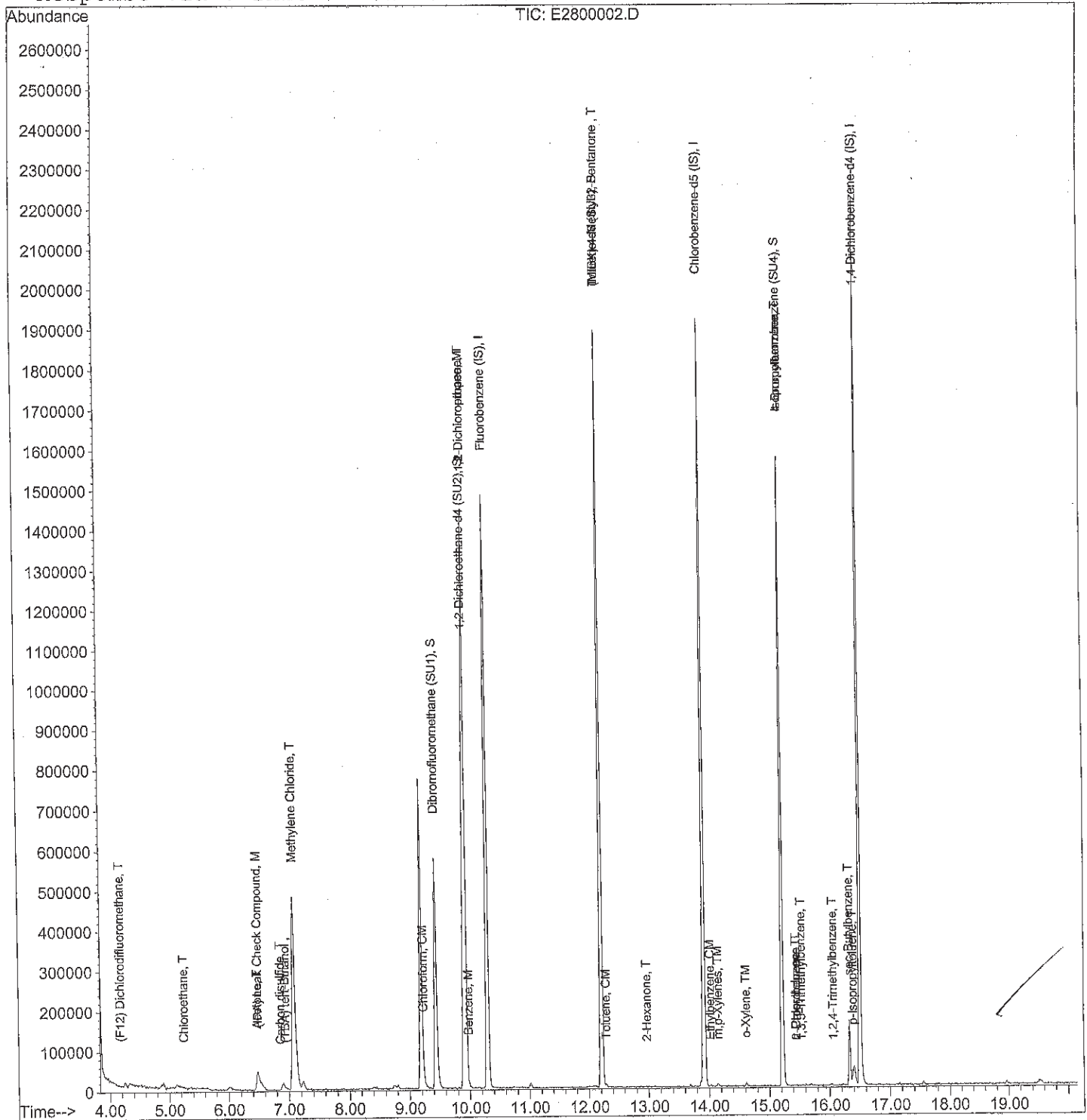
Quantitation Report

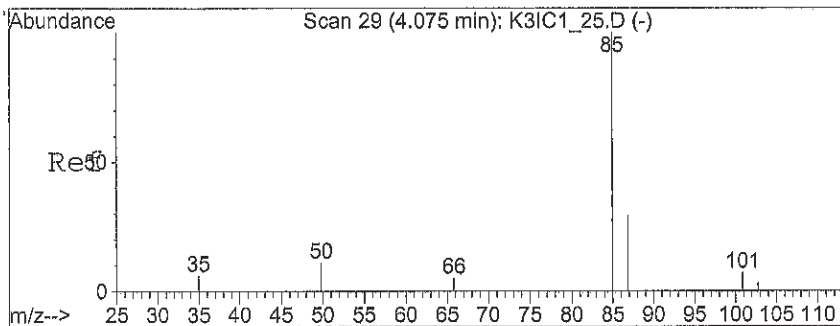
Data File : C:\HPCHEM\1\DATA\052814L3\E2800002.D
Acq On : 28 May 2014 8:47 am
Sample : 3E42801-02
Misc : 100cc SVL-515-SA5D-SV-5.0-6.0
MS Integration Params: rteint.p
Quant Time: May 28 9:14 19114 Quan

Vial: 1
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

```
Method       : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title        : 8260B      GC/MS #3      ICAL 11/13/13      DN
Last Update   : Wed Nov 13 19:38:32 2013
Response via  : Initial Calibration
```





#3

(F12) Dichlorodifluoromethane

Concen: 0.08 ug/L

RT: 4.17 min Scan# 40

Delta R.T. 0.09 min

Lab File: E2800002.D

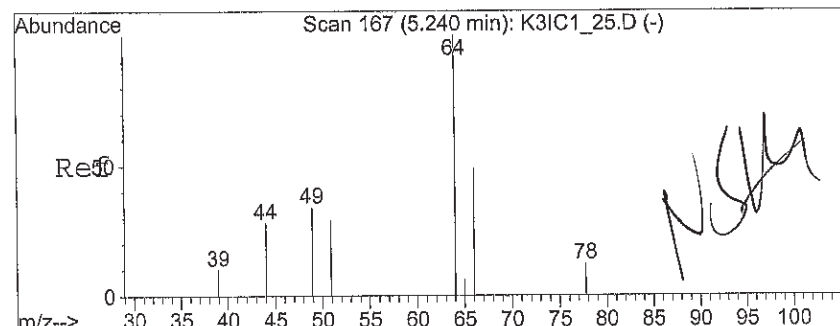
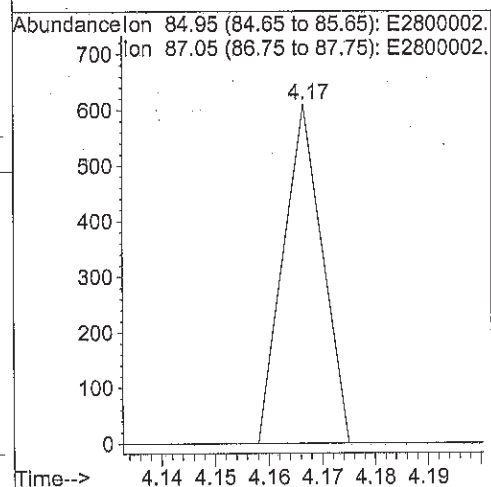
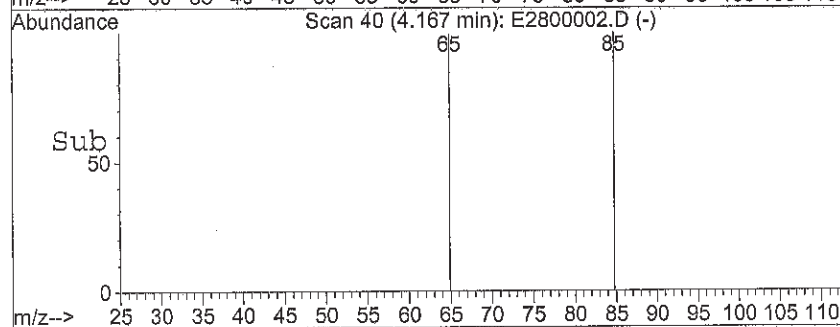
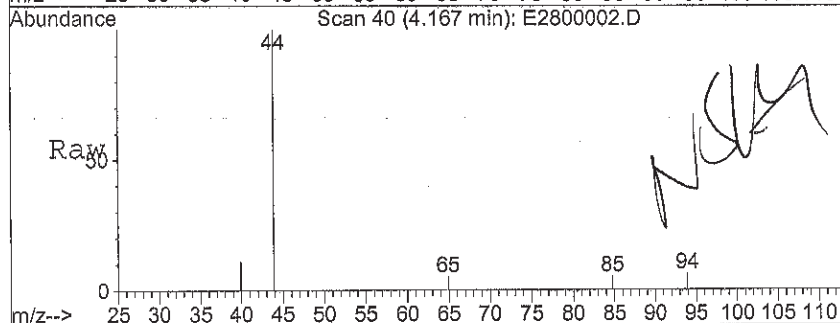
Acq: 28 May 2014 8:47 am

Tgt Ion: 85 Resp: 309

Ion Ratio Lower Upper

85 100

87 0.0 24.6 37.0#



#7

Chloroethane

Concen: 4.02 ug/L

RT: 5.25 min Scan# 168

Delta R.T. 0.01 min

Lab File: E2800002.D

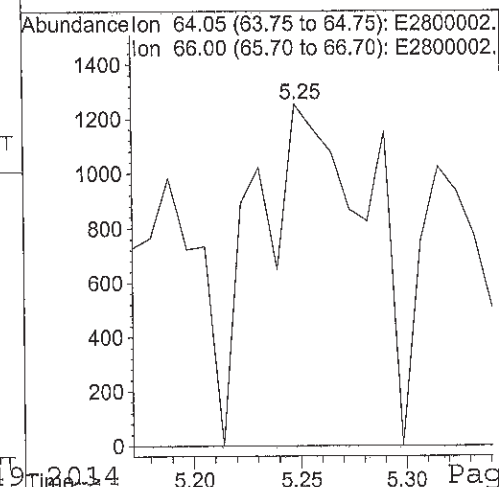
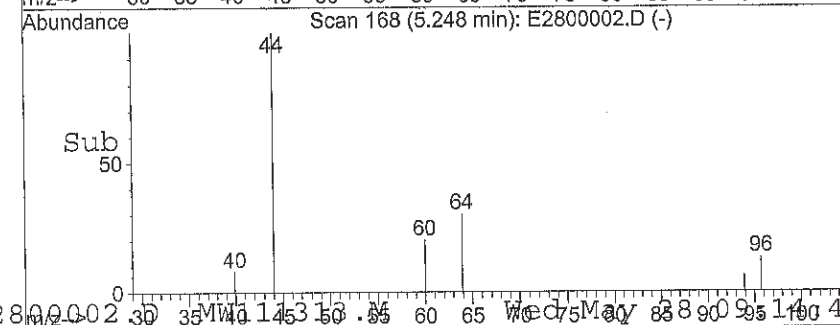
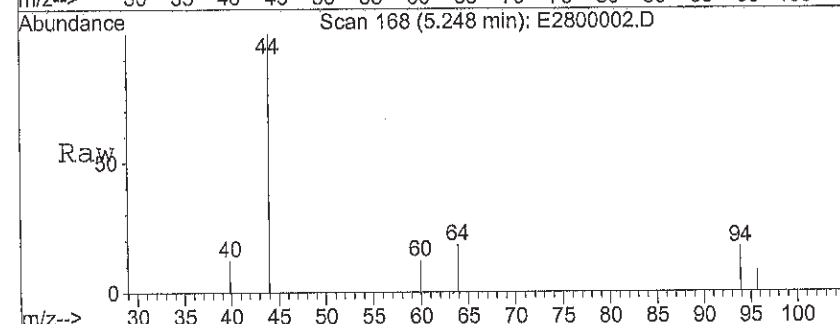
Acq: 28 May 2014 8:47 am

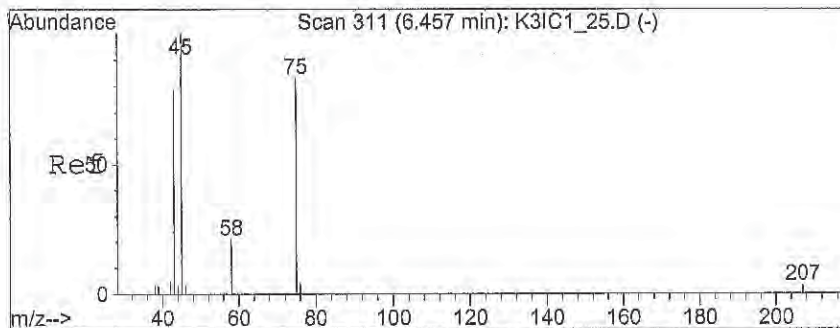
Tgt Ion: 64 Resp: 4511

Ion Ratio Lower Upper

64 100

66 0.0 35.4 53.0#





#11

Acetone

Concen: 7.45 ug/L

RT: 6.46 min Scan# 312

Delta R.T. 0.01 min

Lab File: E2800002.D

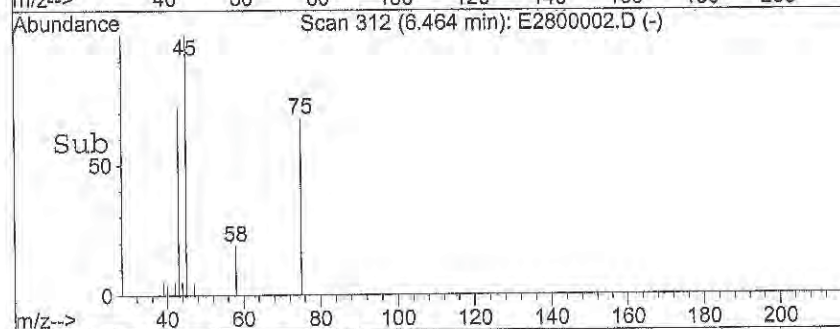
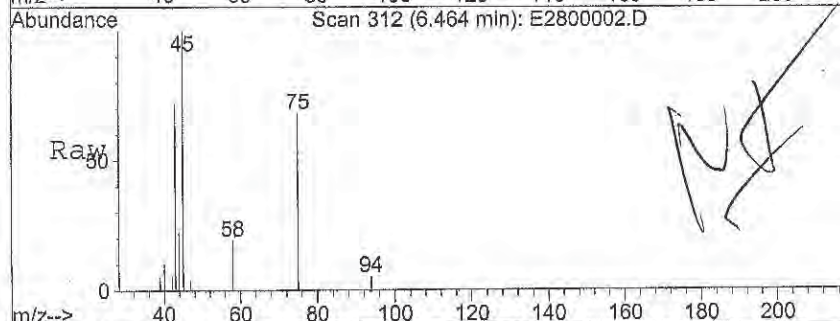
Acq: 28 May 2014 8:47 am

Tgt Ion: 58 Resp: 7704

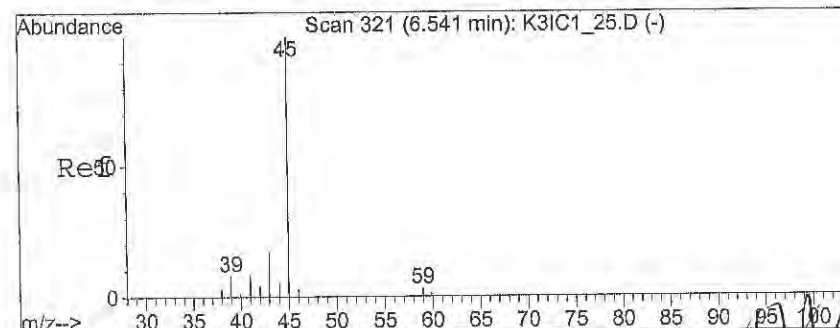
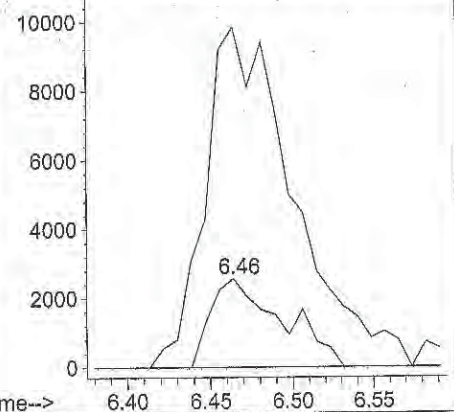
Ion Ratio Lower Upper

58 100

43 480.8 360.9 541.3



Abundance Ion 58.00 (57.70 to 58.70): E2800002.
Ion 43.00 (42.70 to 43.70): E2800002.



#12

(IPA) Leak Check Compound

Concen: 475.94 ug/L

RT: 6.49 min Scan# 315

Delta R.T. -0.05 min

Lab File: E2800002.D

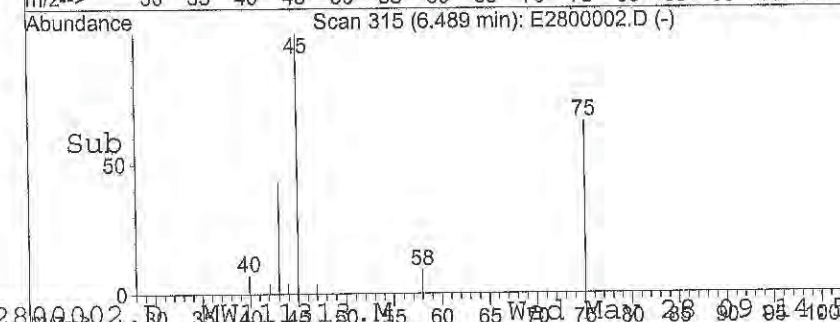
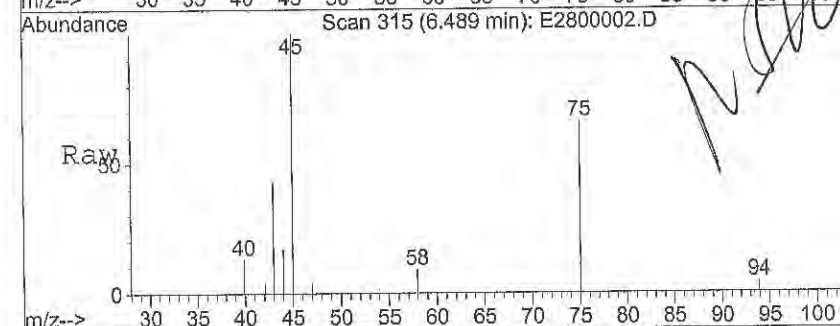
Acq: 28 May 2014 8:47 am

Tgt Ion: 45 Resp: 93153

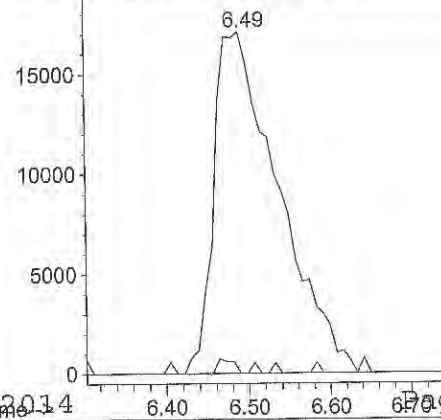
Ion Ratio Lower Upper

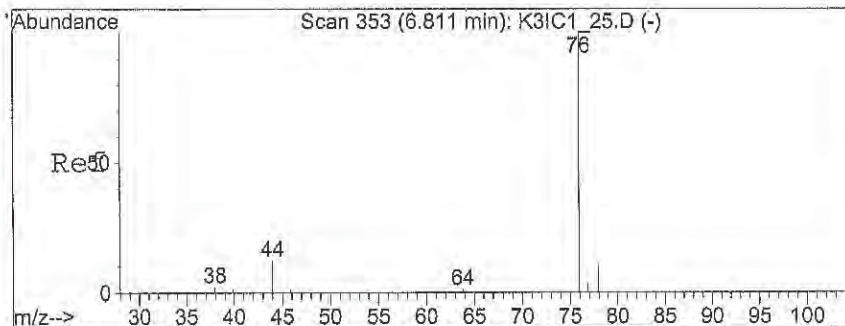
45 100

39 0.3 4.9 7.3#



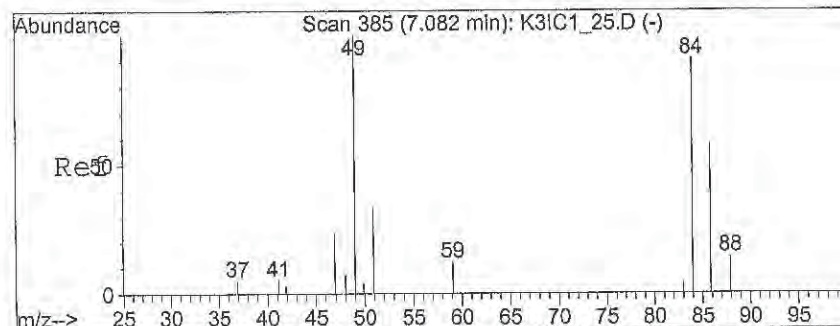
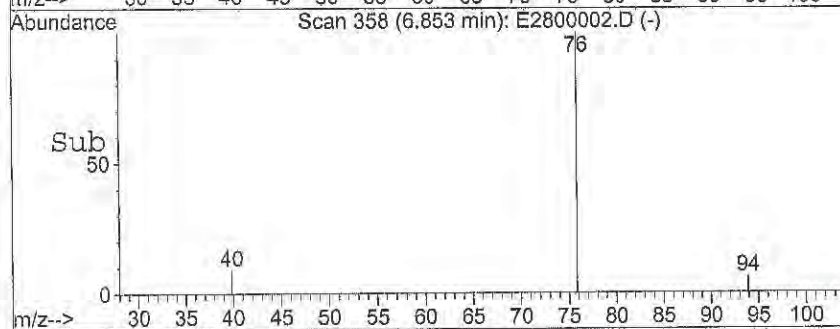
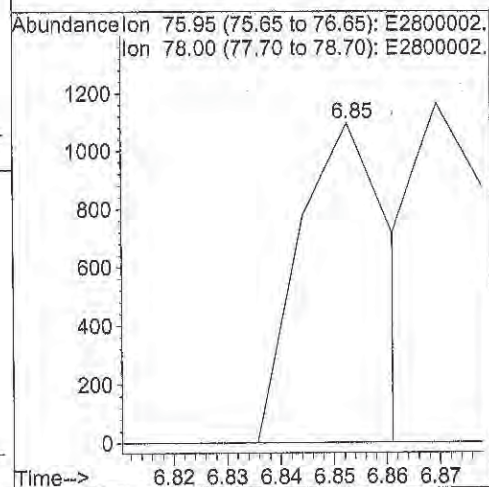
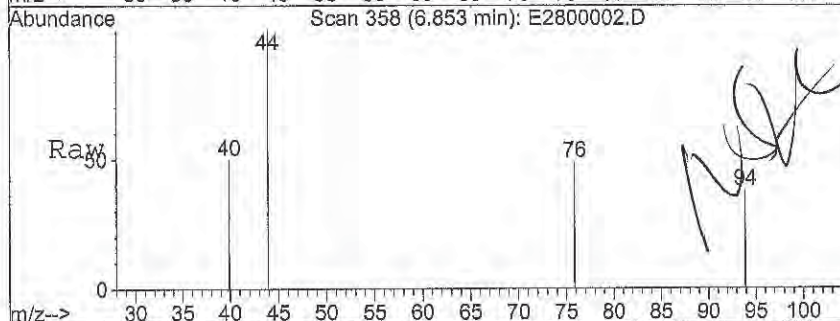
Abundance Ion 45.00 (44.70 to 45.70): E2800002.
Ion 39.00 (38.70 to 39.70): E2800002.





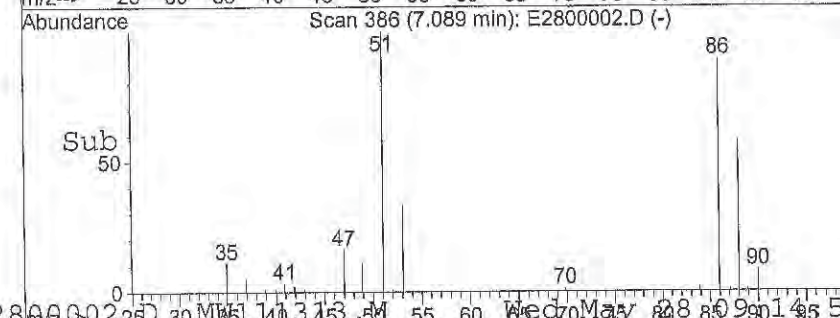
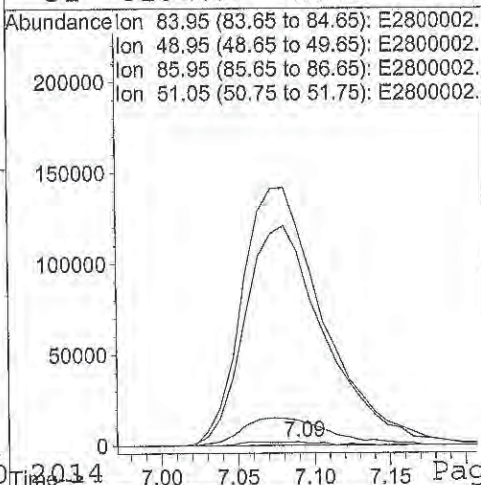
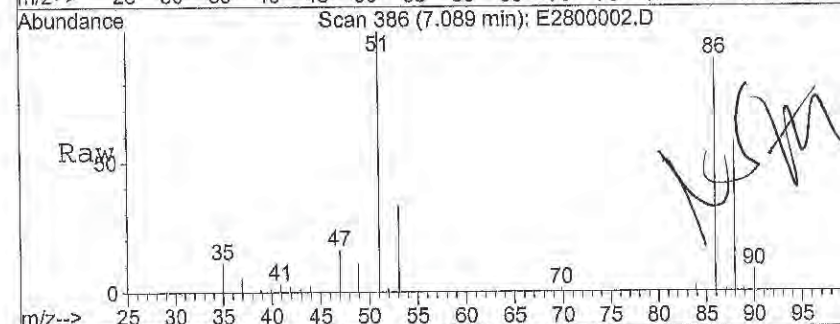
#13
Carbon disulfide
Concen: 0.10 ug/L
RT: 6.85 min Scan# 358
Delta R.T. 0.04 min
Lab File: E2800002.D
Acq: 28 May 2014 8:47 am

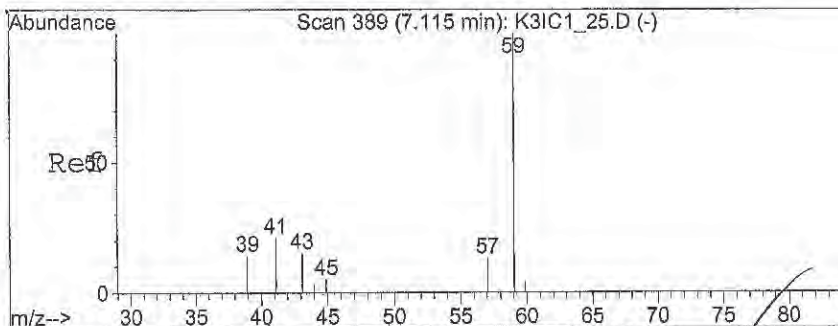
Tgt Ion: 76 Resp: 1311
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#14
Methylene Chloride
Concen: 1.46 ug/L
RT: 7.09 min Scan# 386
Delta R.T. 0.01 min
Lab File: E2800002.D
Acq: 28 May 2014 8:47 am

Tgt Ion: 84 Resp: 6524
Ion Ratio Lower Upper
84 100
49 917.0 89.8 134.6#
86 6838.7 51.1 76.7#
51 8134.9 28.5 42.7#





#15

(TBA) tert-Butanol

Concen: 1.27 ug/L

RT: 6.95 min Scan# 369

Delta R.T. -0.17 min

Lab File: E2800002.D

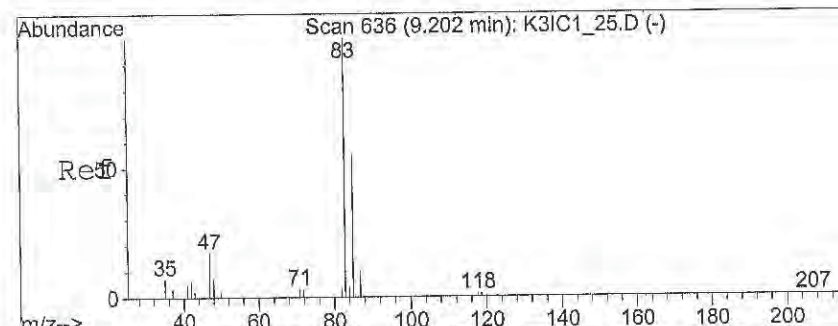
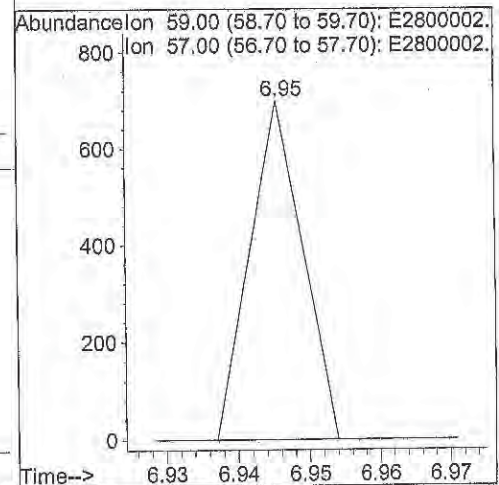
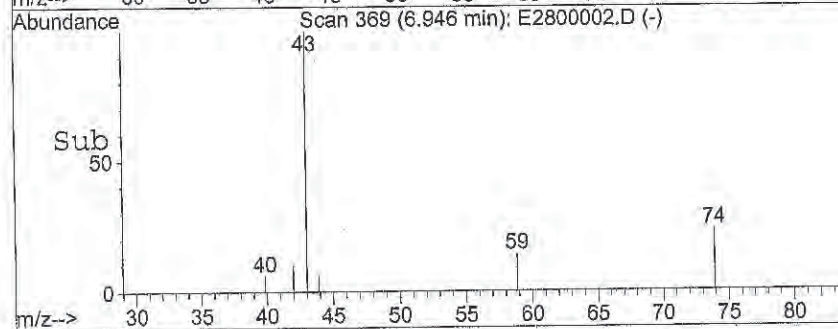
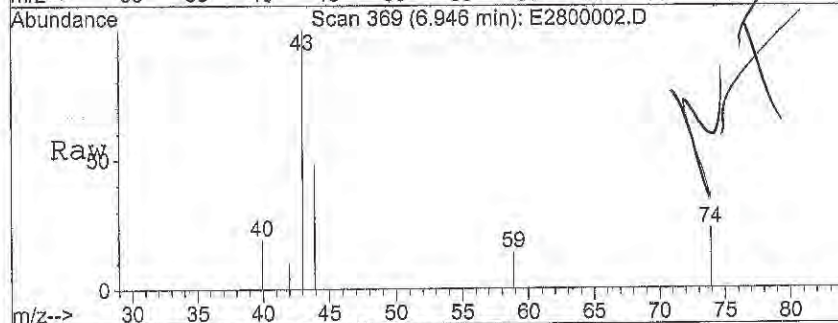
Acq: 28 May 2014 8:47 am

Tgt Ion: 59 Resp: 354

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#24

Chloroform

Concen: 0.19 ug/L

RT: 9.23 min Scan# 640

Delta R.T. 0.03 min

Lab File: E2800002.D

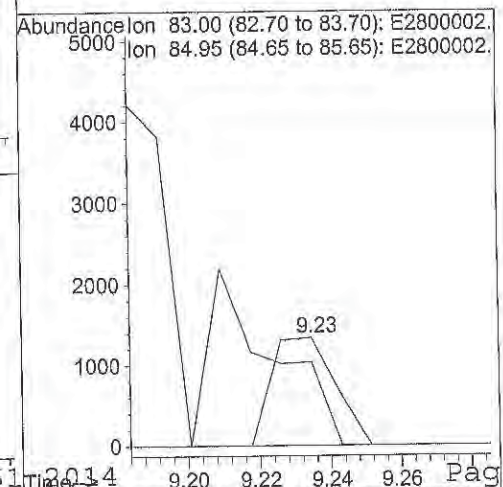
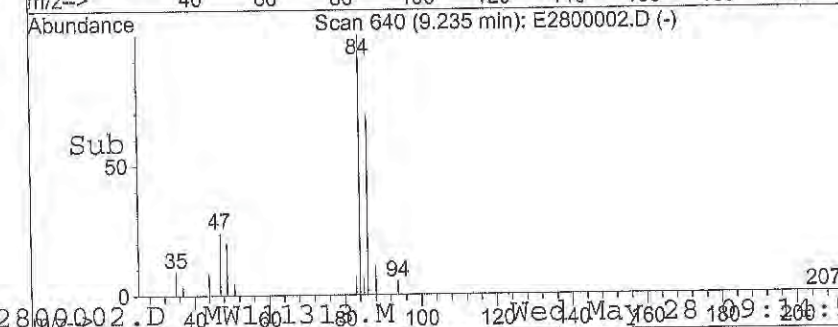
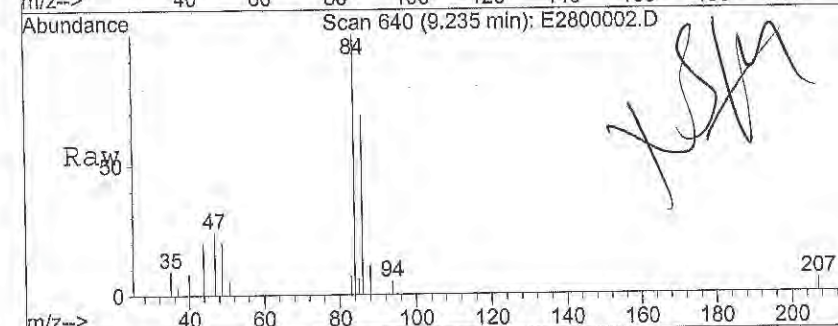
Acq: 28 May 2014 8:47 am

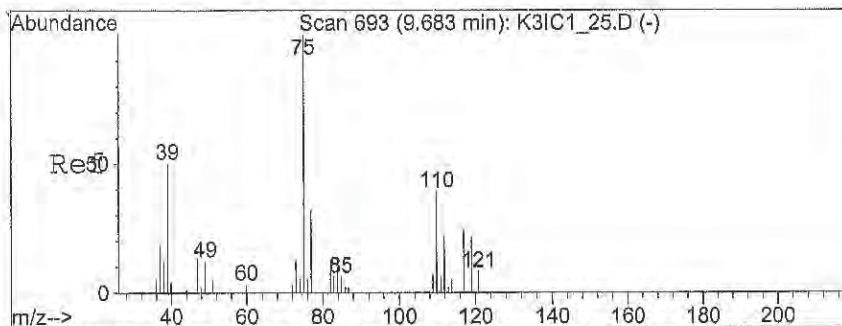
Tgt Ion: 83 Resp: 1652

Ion Ratio Lower Upper

83 100

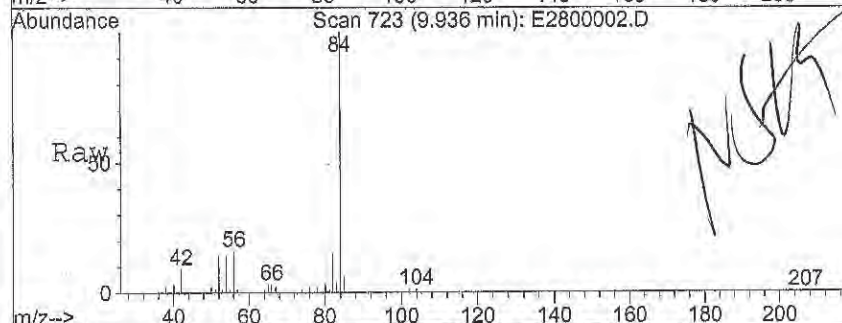
85 0.0 51.8 77.6#





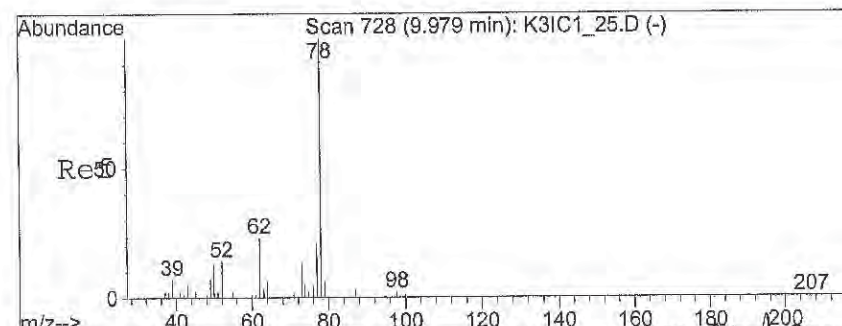
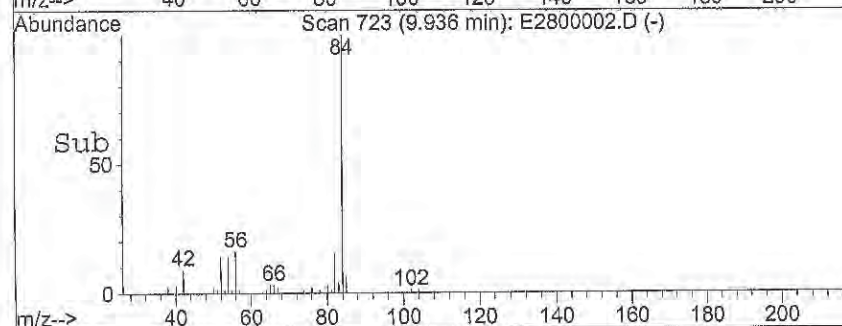
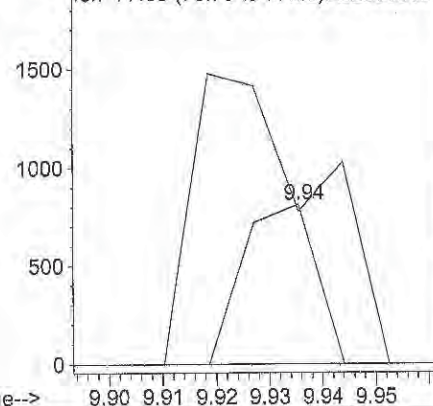
#29
1,1-Dichloropropene
Concen: 0.12 ug/L
RT: 9.94 min Scan# 723
Delta R.T. 0.25 min
Lab File: E2800002.D
Acq: 28 May 2014 8:47 am

Tgt Ion: 75 Resp: 777
Ion Ratio Lower Upper
75 100
110 0.0 29.0 43.6#
77 306.4 25.0 37.4#



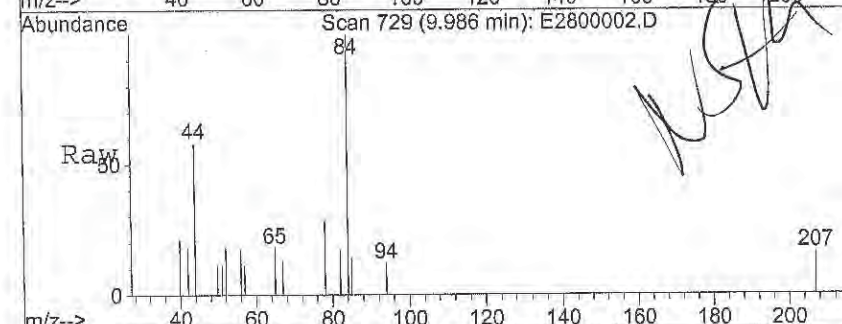
Abundance

Ion 75.05 (74.75 to 75.75): E2800002.
Ion 110.05 (109.75 to 110.75): E2800002.
Ion 77.05 (76.75 to 77.75): E2800002.



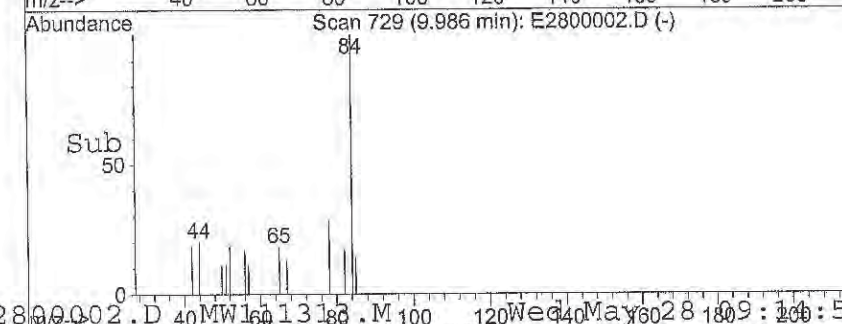
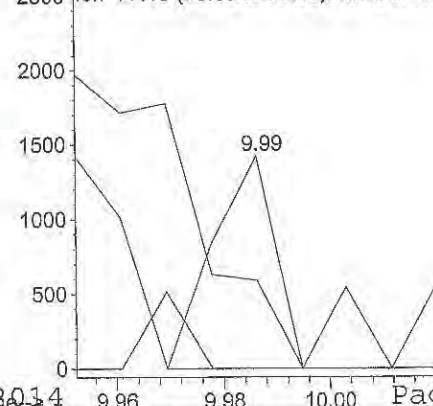
#31
Benzene
Concen: 0.07 ug/L
RT: 9.99 min Scan# 729
Delta R.T. 0.01 min
Lab File: E2800002.D
Acq: 28 May 2014 8:47 am

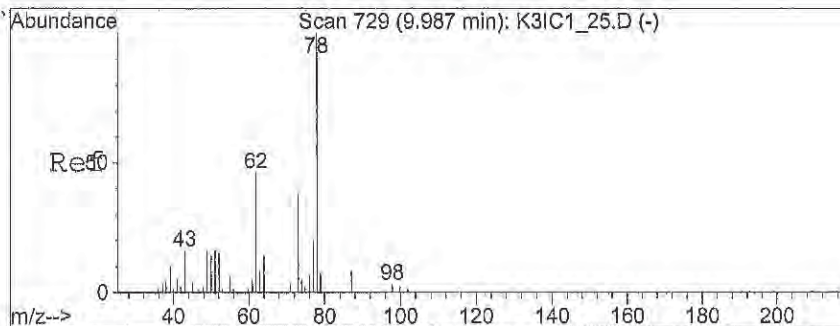
Tgt Ion: 78 Resp: 1147
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 22.8 16.6 24.8



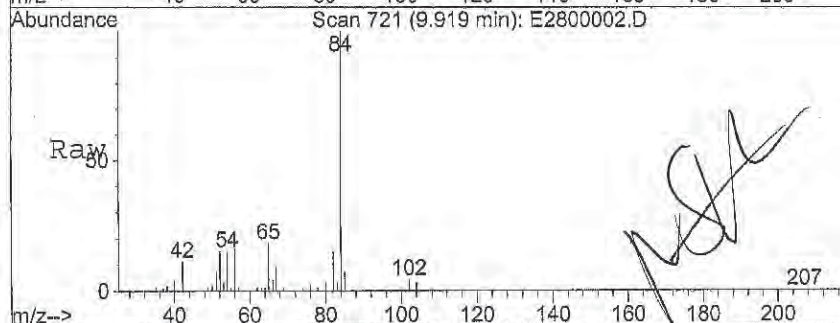
Abundance

Ion 78.10 (77.80 to 78.80): E2800002.
Ion 51.05 (50.75 to 51.75): E2800002.
Ion 77.15 (76.85 to 77.85): E2800002.

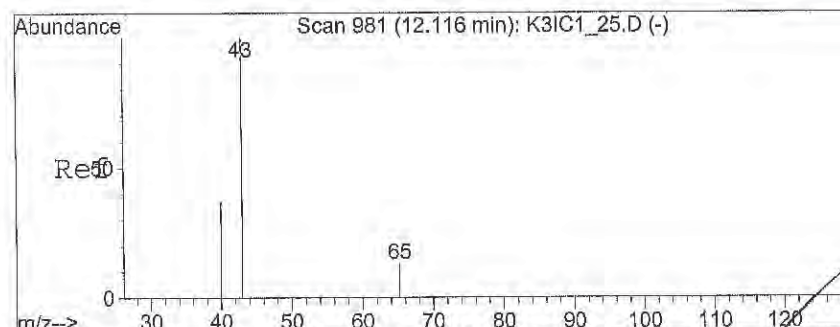
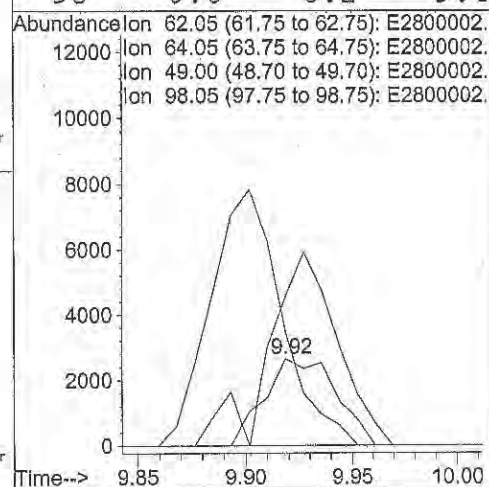
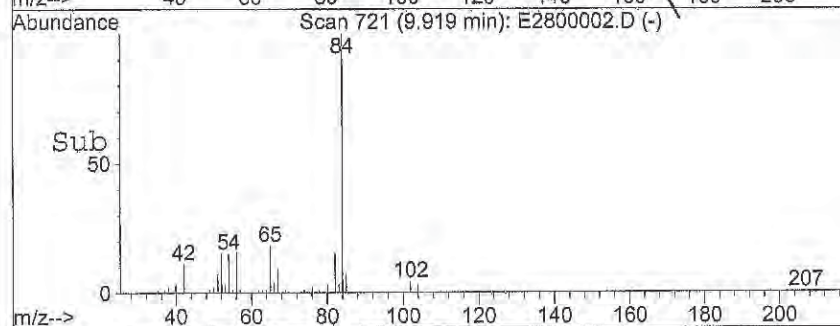




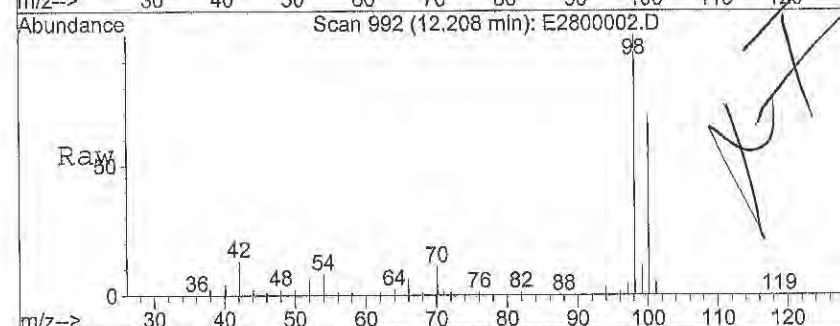
#32
 1,2-Dichloroethane
 Concen: 1.13 ug/L
 RT: 9.92 min Scan# 721
 Delta R.T. -0.07 min
 Lab File: E2800002.D
 Acq: 28 May 2014 8:47 am



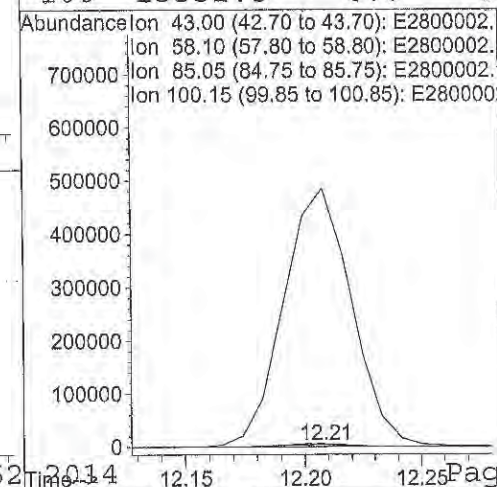
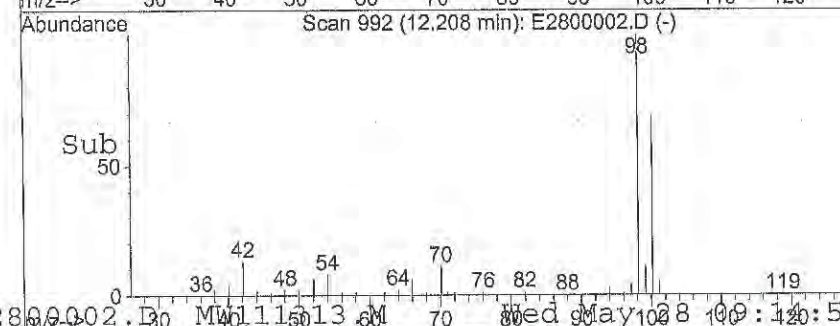
Tgt Ion: 62 Resp: 6151
 Ion Ratio Lower Upper
 62 100
 64 214.5 28.0 42.0#
 49 0.0 28.5 42.7#
 98 0.0 6.2 9.4#

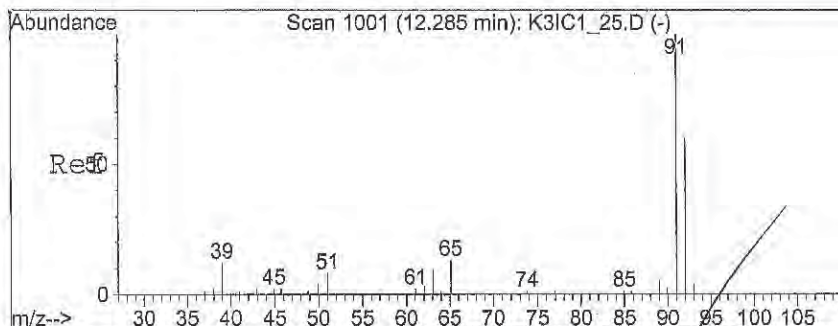


#40
 (MIBK) 4-Methyl-2-Pentanone
 Concen: 2.85 ug/L
 RT: 12.21 min Scan# 992
 Delta R.T. 0.09 min
 Lab File: E2800002.D
 Acq: 28 May 2014 8:47 am



Tgt Ion: 43 Resp: 7286
 Ion Ratio Lower Upper
 43 100
 58 132.5 0.0 0.0#
 85 0.0 0.0 0.0
 100 13352.5 0.0 0.0#





#41

Toluene

Concen: 0.26 ug/L

RT: 12.29 min Scan# 1002

Delta R.T. 0.01 min

Lab File: E2800002.D

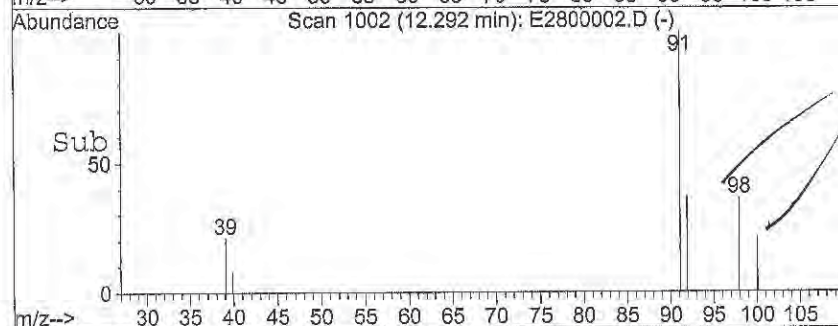
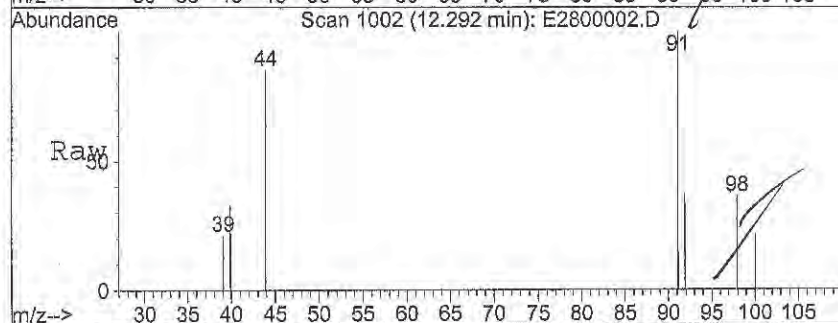
Acq: 28 May 2014 8:47 am

Tgt Ion: 91 Resp: 4573

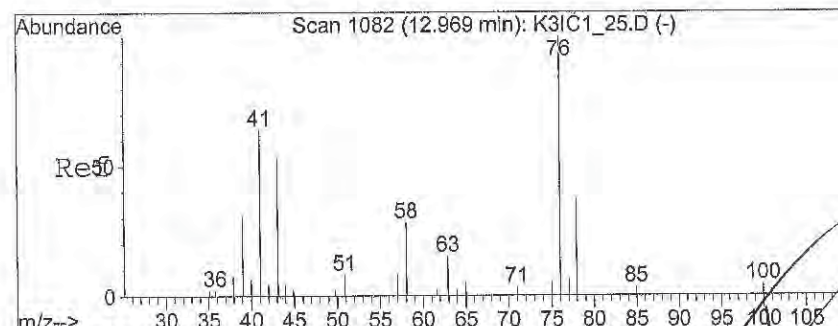
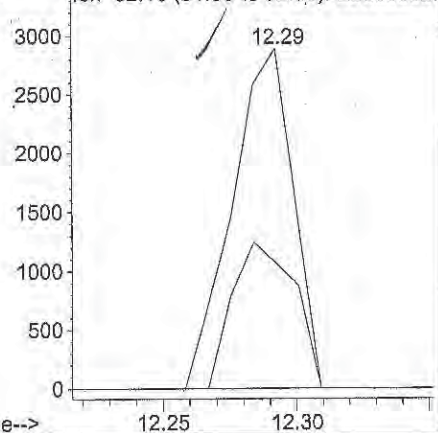
Ion Ratio Lower Upper

91 100

92 44.1 47.4 71.0#



Abundance Ion 91.10 (90.80 to 91.80): E2800002.
Ion 92.10 (91.80 to 92.80): E2800002.



#46

2-Hexanone

Concen: 0.15 ug/L

RT: 12.97 min Scan# 1082

Delta R.T. -0.00 min

Lab File: E2800002.D

Acq: 28 May 2014 8:47 am

Tgt Ion: 43 Resp: 415

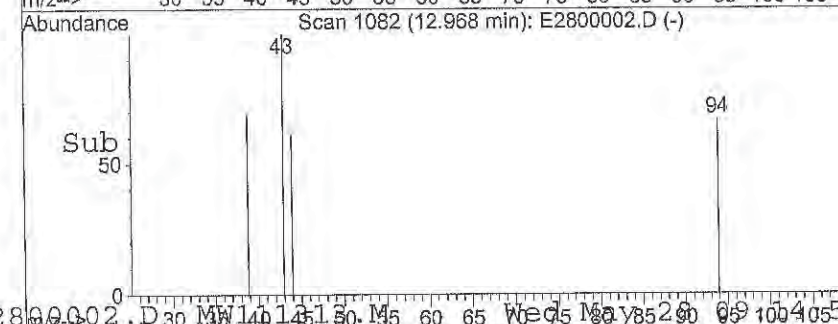
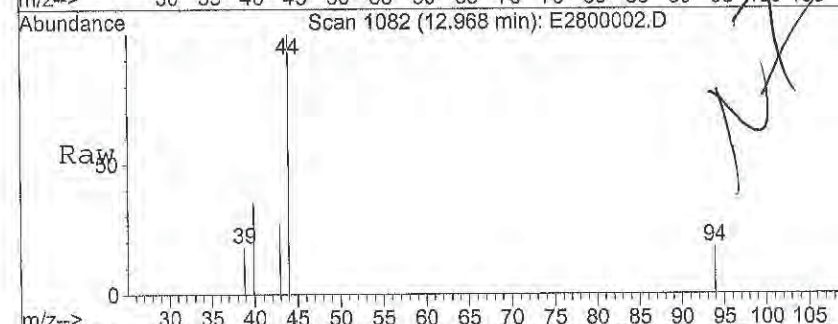
Ion Ratio Lower Upper

43 100

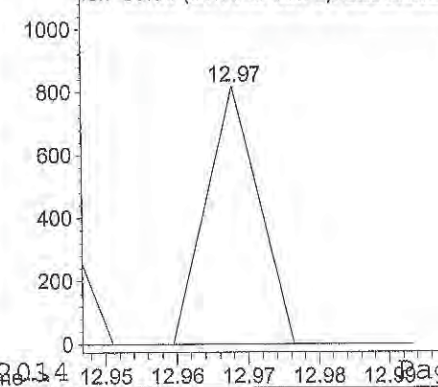
58 0.0 40.9 61.3#

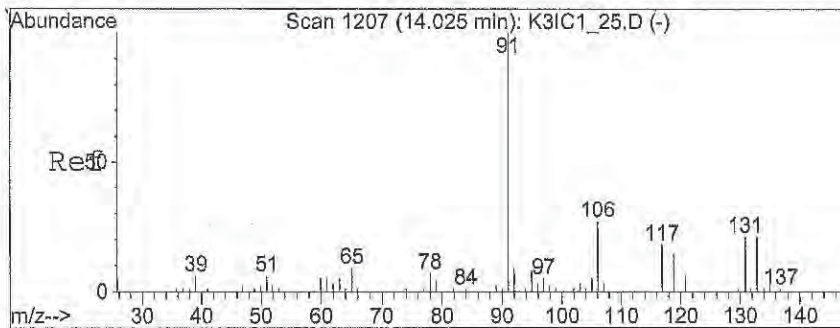
100 0.0 5.5 8.3#

85 0.0 4.3 6.5#



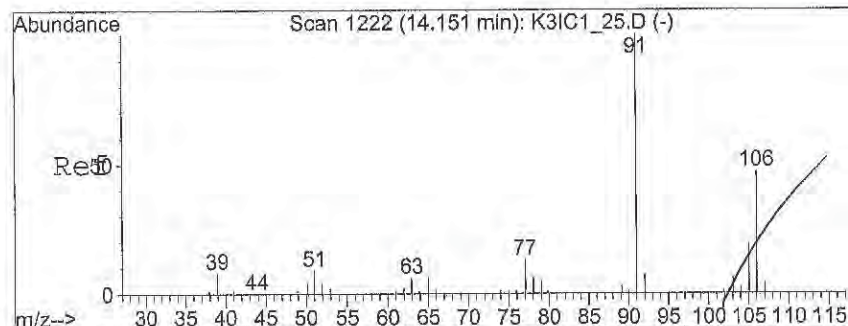
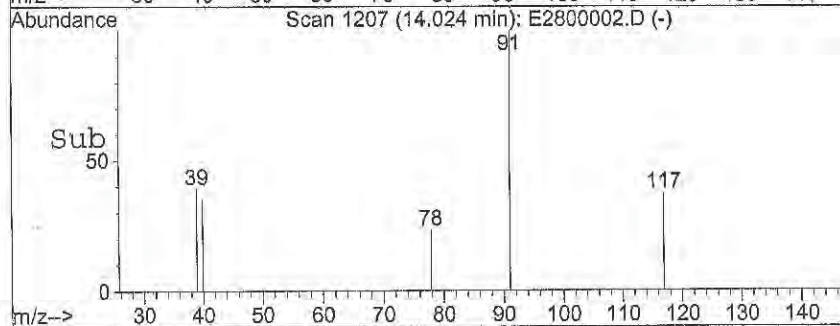
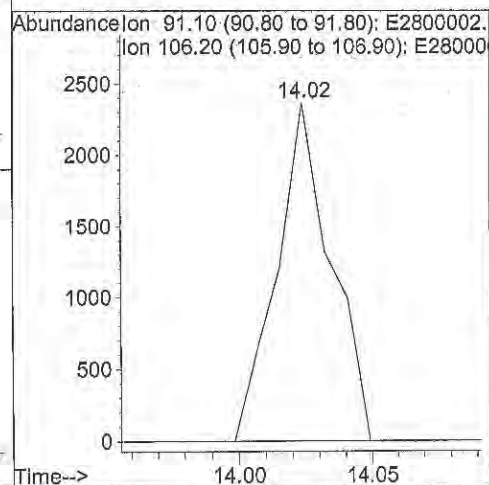
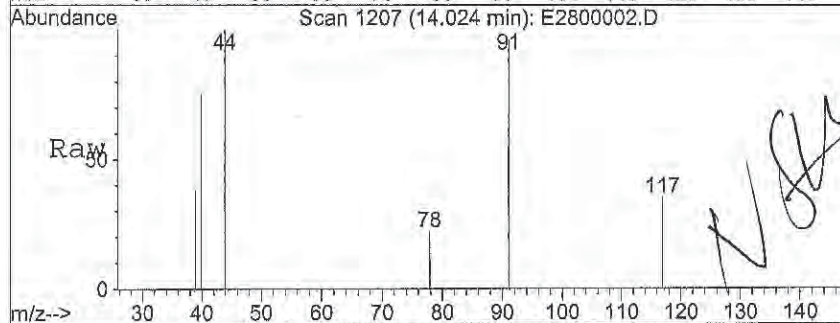
Abundance Ion 43.00 (42.70 to 43.70): E2800002.
Ion 58.10 (57.80 to 58.80): E2800002.
Ion 100.15 (99.85 to 100.85): E2800002.
Ion 85.05 (84.75 to 85.75): E2800002.





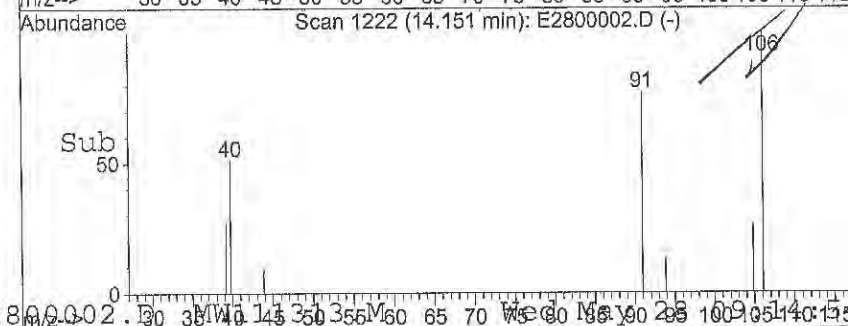
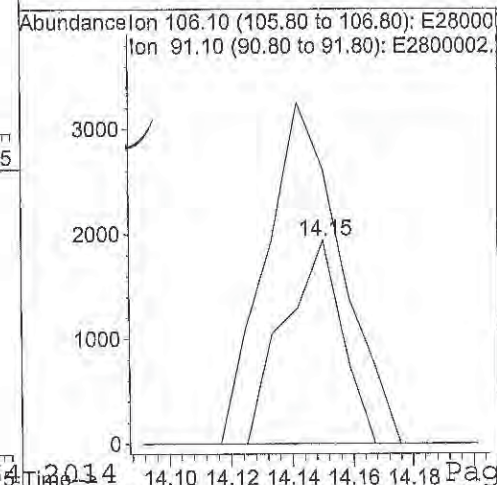
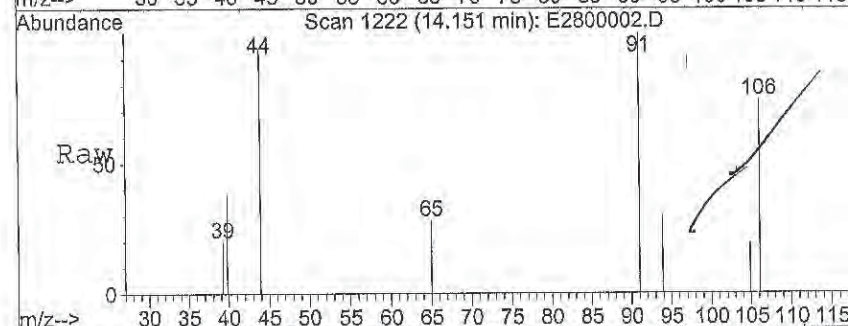
#51
Ethylbenzene
Concen: 0.17 ug/L
RT: 14.02 min Scan# 1207
Delta R.T. -0.00 min
Lab File: E2800002.D
Acq: 28 May 2014 8:47 am

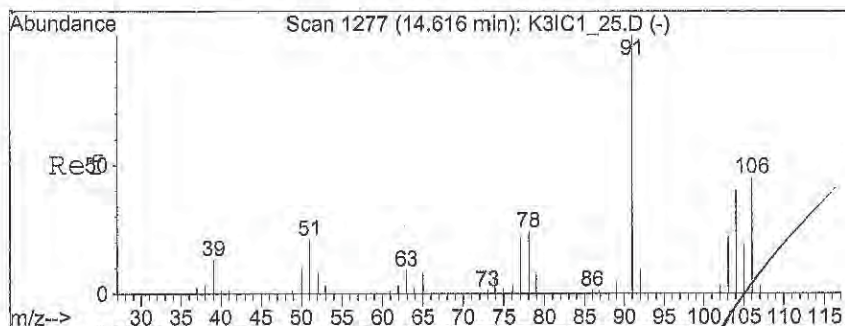
Tgt Ion: 91 Resp: 3307
Ion Ratio Lower Upper
91 100
106 0.0 23.5 35.3#



#52
m,p-Xylenes
Concen: 0.36 ug/L
RT: 14.15 min Scan# 1222
Delta R.T. -0.00 min
Lab File: E2800002.D
Acq: 28 May 2014 8:47 am

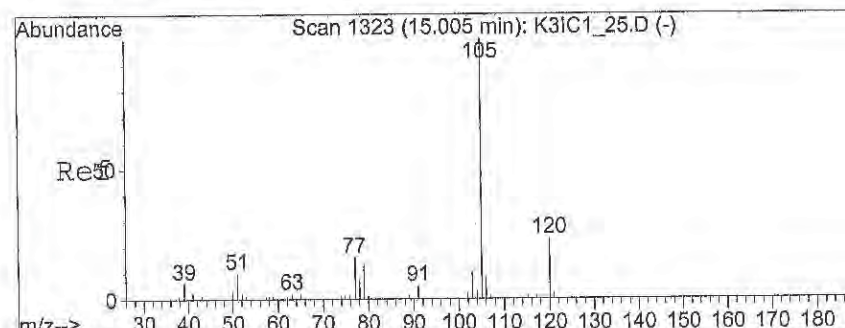
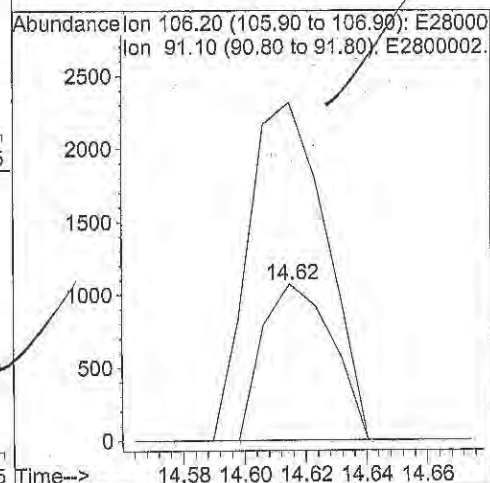
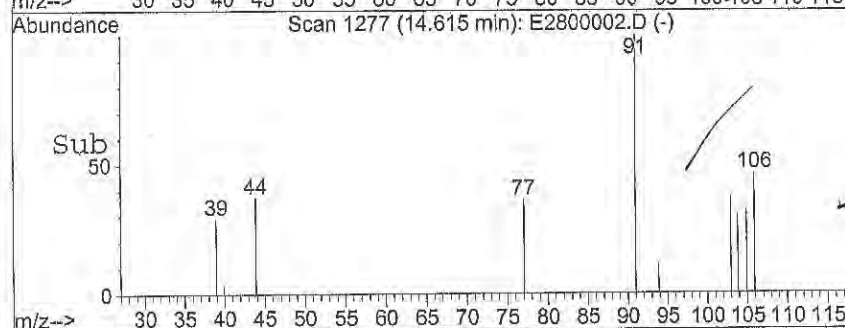
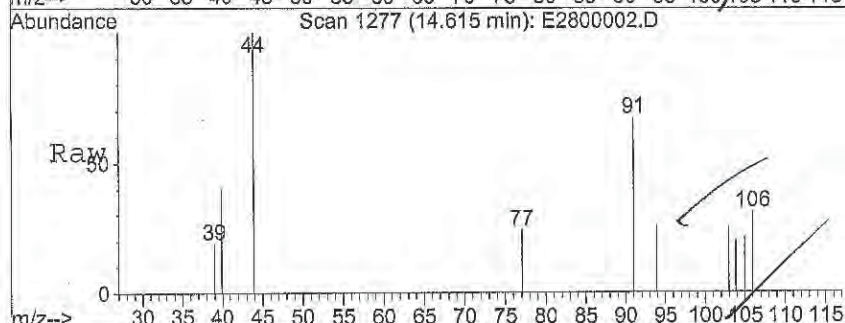
Tgt Ion: 106 Resp: 2542
Ion Ratio Lower Upper
106 100
91 220.4 177.1 265.7





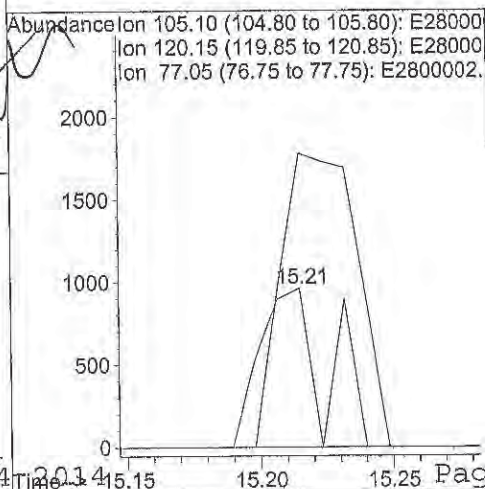
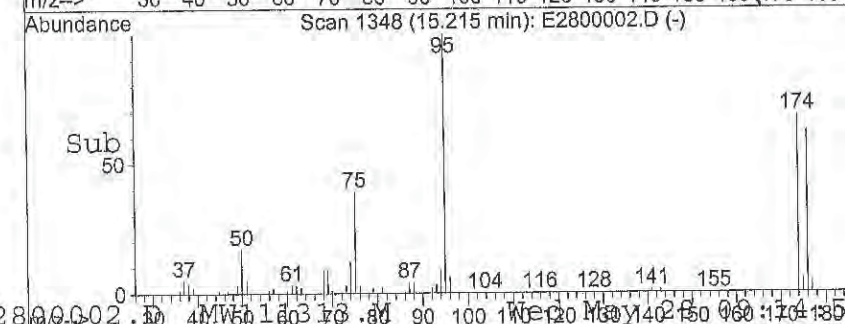
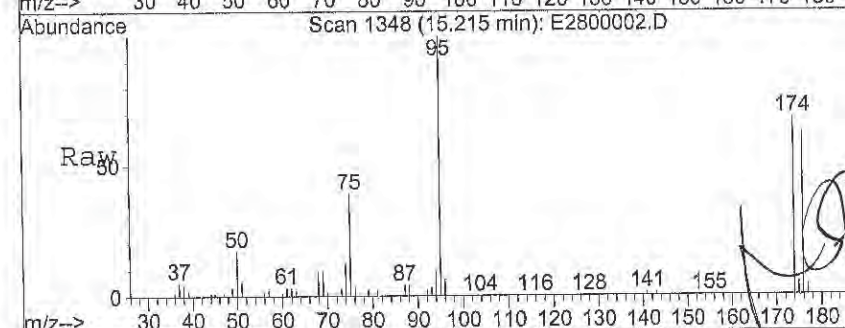
#53
o-Xylene
Concen: 0.24 ug/L
RT: 14.62 min Scan# 1277
Delta R.T. -0.00 min
Lab File: E2800002.D
Acq: 28 May 2014 8:47 am

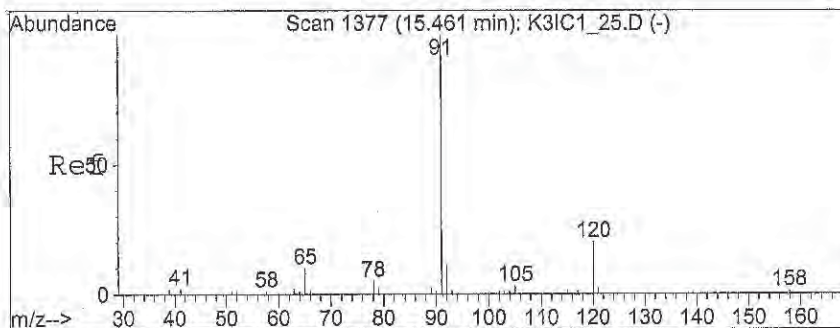
Tgt Ion:106 Resp: 1697
Ion Ratio Lower Upper
106 100
91 240.7 179.0 268.6



#56
Isopropylbenzene
Concen: 0.09 ug/L
RT: 15.21 min Scan# 1348
Delta R.T. 0.21 min
Lab File: E2800002.D
Acq: 28 May 2014 8:47 am

Tgt Ion:105 Resp: 1657
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 215.3 13.1 19.7#





#62

n-Propylbenzene

Concen: 0.03 ug/L

RT: 15.46 min Scan# 1377

Delta R.T. -0.00 min

Lab File: E2800002.D

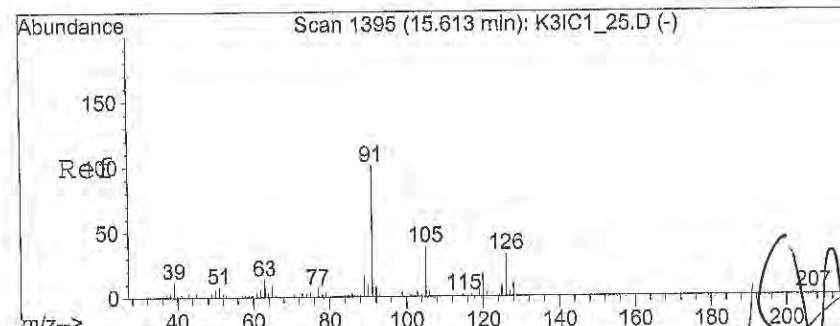
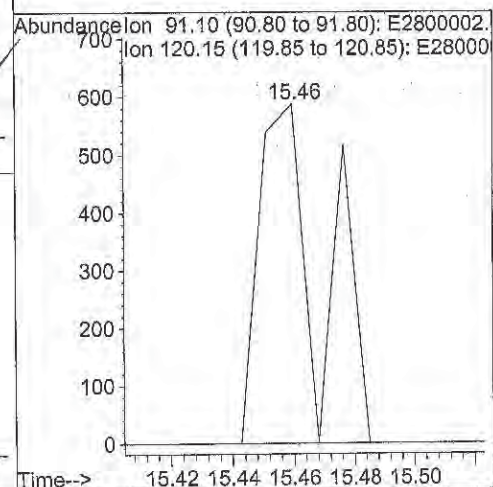
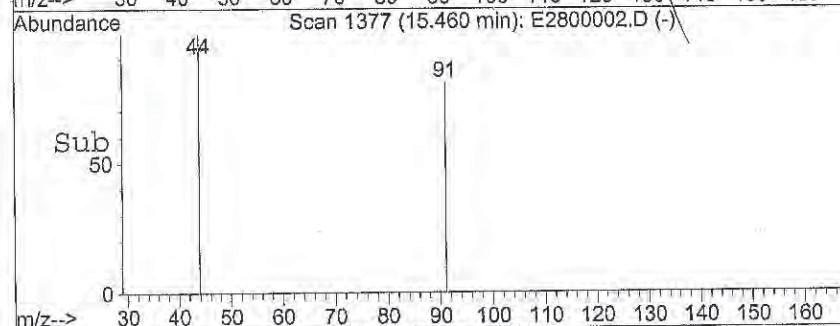
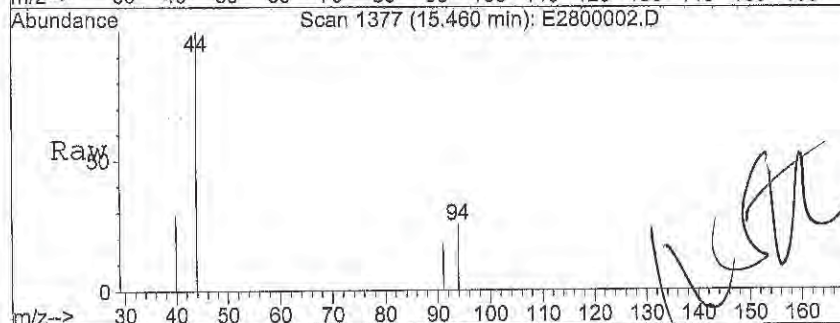
Acq: 28 May 2014 8:47 am

Tgt Ion: 91 Resp: 832

Ion Ratio Lower Upper

91 100

120 0.0 16.1 24.1#



#63

2-Chlorotoluene

Concen: 0.05 ug/L

RT: 15.46 min Scan# 1377

Delta R.T. -0.15 min

Lab File: E2800002.D

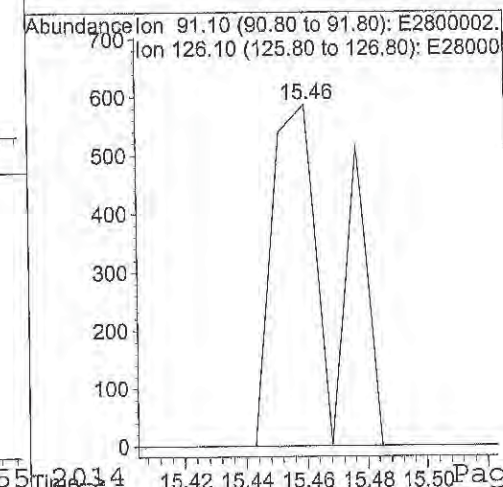
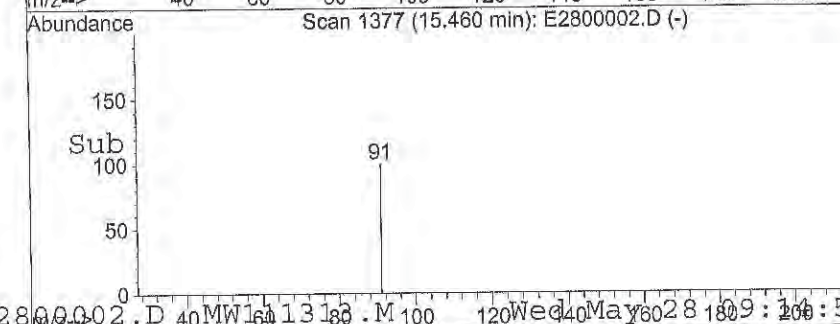
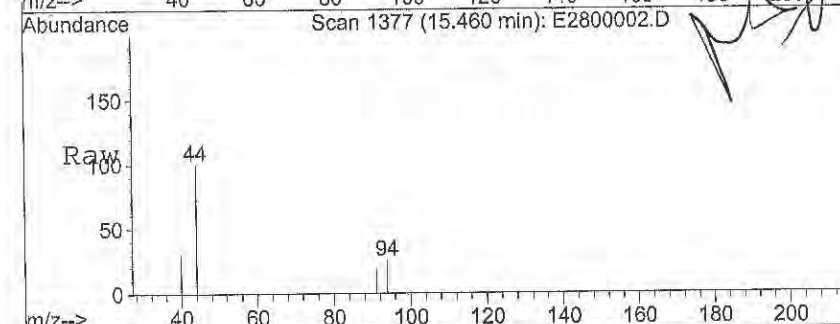
Acq: 28 May 2014 8:47 am

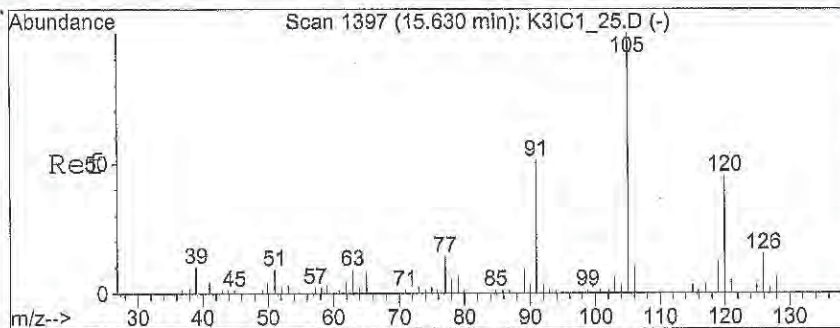
Tgt Ion: 91 Resp: 832

Ion Ratio Lower Upper

91 100

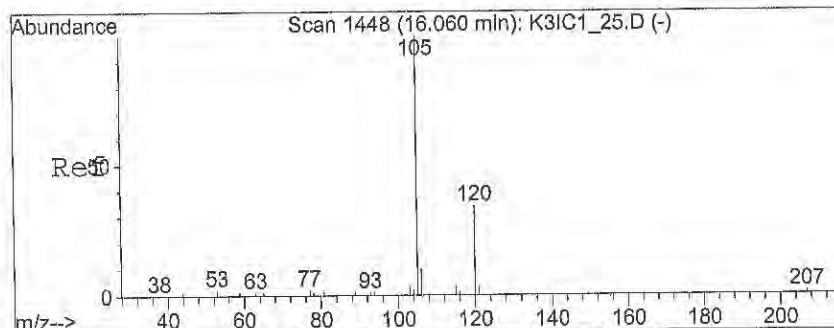
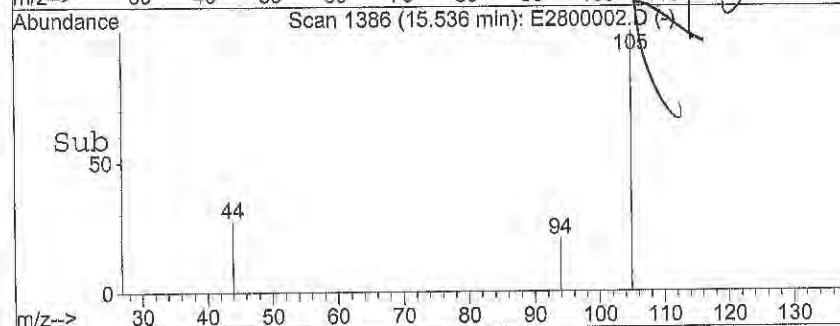
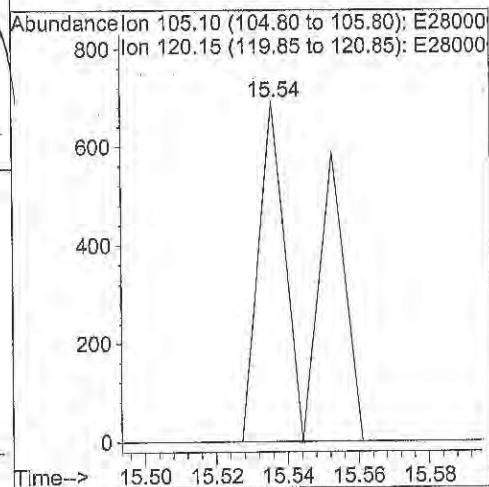
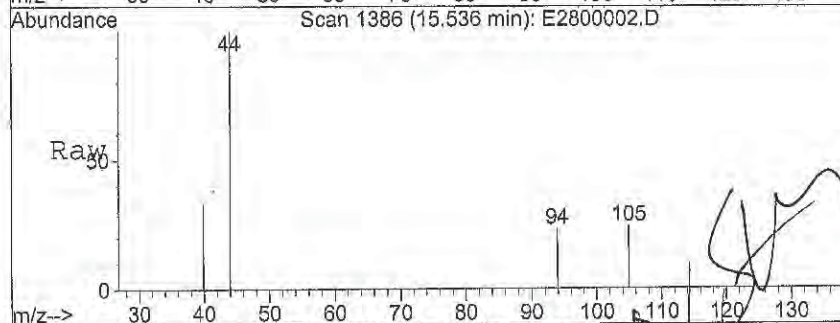
126 0.0 24.0 36.0#





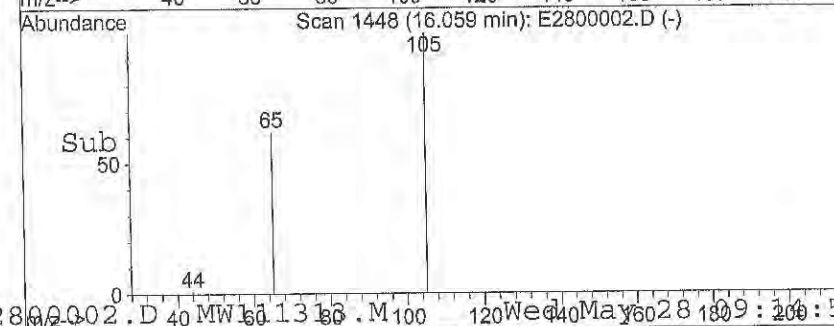
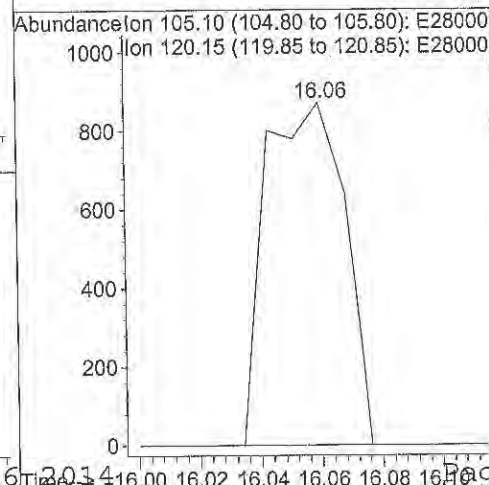
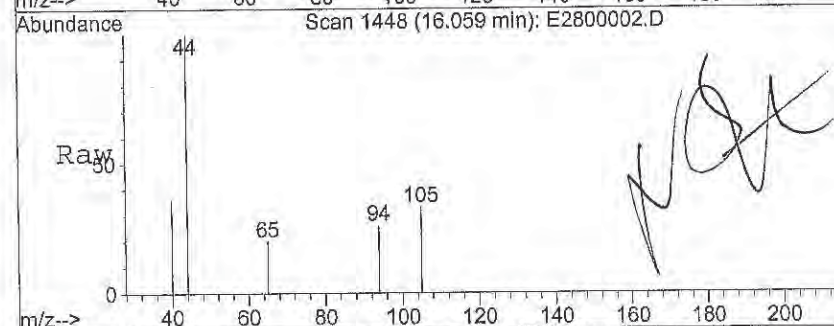
#64
 1,3,5-Trimethylbenzene
 Concen: 0.04 ug/L
 RT: 15.54 min Scan# 1386
 Delta R.T. -0.09 min
 Lab File: E2800002.D
 Acq: 28 May 2014 8:47 am

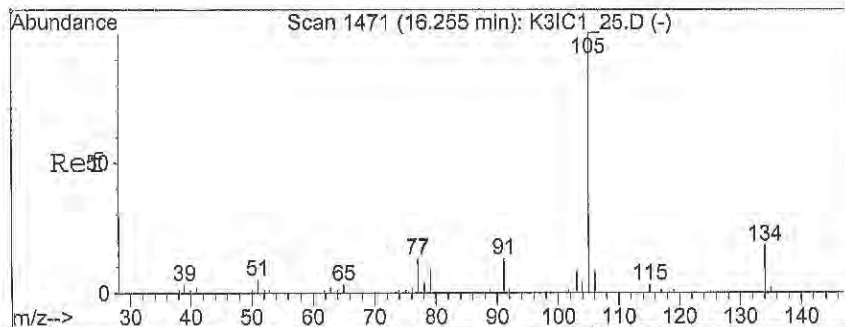
Tgt Ion:105 Resp: 648
 Ion Ratio Lower Upper
 105 100
 120 0.0 36.4 54.6#



#67
 1,2,4-Trimethylbenzene
 Concen: 0.09 ug/L
 RT: 16.06 min Scan# 1448
 Delta R.T. -0.00 min
 Lab File: E2800002.D
 Acq: 28 May 2014 8:47 am

Tgt Ion:105 Resp: 1569
 Ion Ratio Lower Upper
 105 100
 120 0.0 33.8 50.8#





#68

sec-Butylbenzene

Concen: 0.11 ug/L

RT: 16.33 min Scan# 1480

Delta R.T. 0.08 min

Lab File: E2800002.D

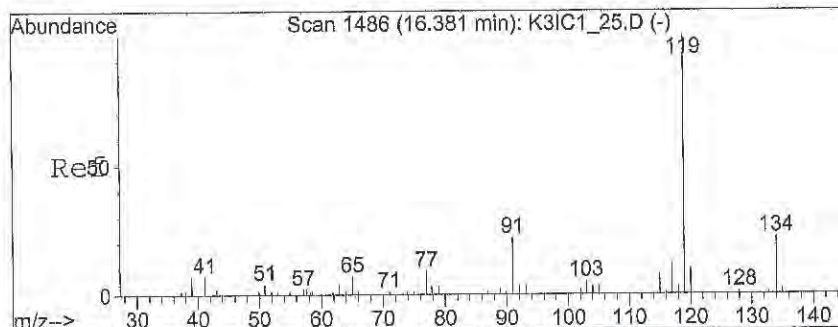
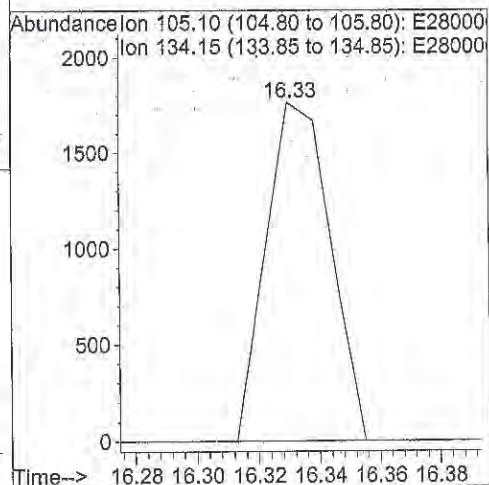
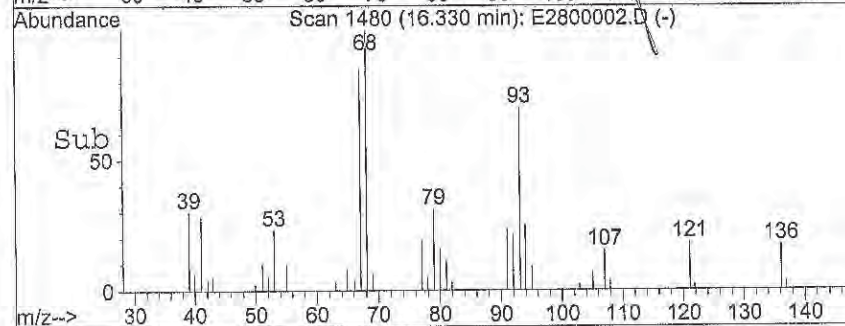
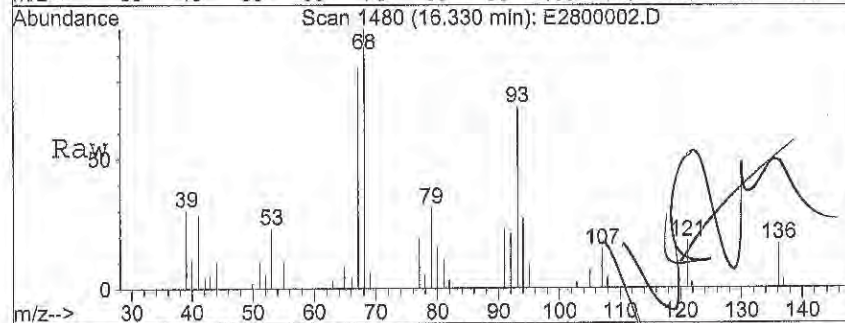
Acq: 28 May 2014 8:47 am

Tgt Ion:105 Resp: 2565

Ion Ratio Lower Upper

105 100

134 0.0 13.0 19.6#



#69

p-Isopropyltoluene

Concen: 0.11 ug/L

RT: 16.38 min Scan# 1486

Delta R.T. -0.00 min

Lab File: E2800002.D

Acq: 28 May 2014 8:47 am

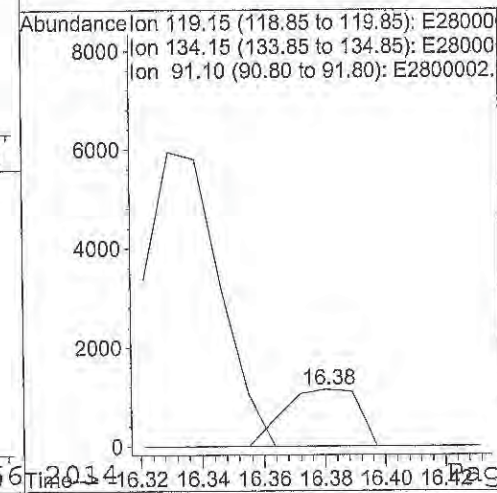
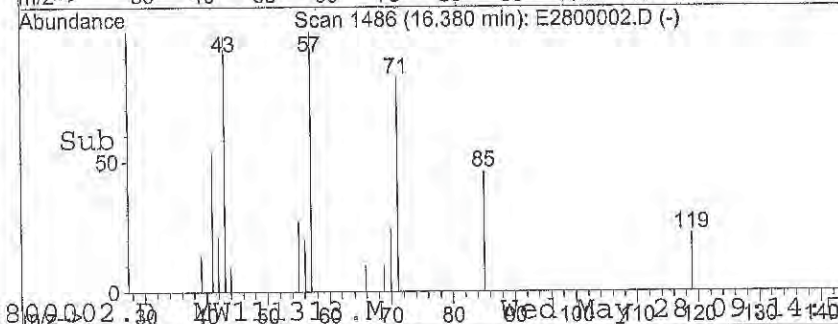
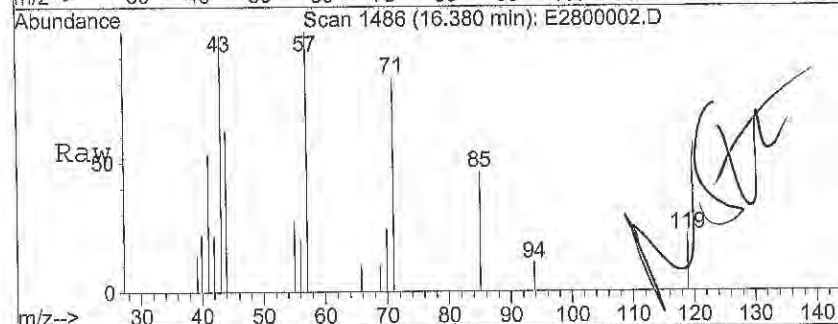
Tgt Ion:119 Resp: 1963

Ion Ratio Lower Upper

119 100

134 0.0 17.4 26.2#

91 0.0 19.6 29.4#



Data File : C:\HPCHEM\1\DATA\052814L3\E2800002.D
Acq On : 28 May 2014 8:47 am
Sample : 3E42801-02
Misc : 100cc SVL-515-SA5D-SV-5.0-6.0
MS Integration Params: rteint.p
Quant Time: May 28 9:16 19114

Vial: 1
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
Last Update : Mon Nov 18 10:31:39 2013
Response via : Initial Calibration
DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1628814	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.91	117	1280080	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	672692	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	473247	11.17	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	89.36%
3) Chloroform-d (SU6)	9.18	84	793675	13.06	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	104.48%
4) Methylene Chloride-d2 (SU5)	7.08	86	446157	12.56	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	100.48%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	471749	16.30	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	130.40%#
6) Benzene-d6 (SU7)	9.93	84	1463973	11.45	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	91.60%
8) Toluene-d8 (SU3)	12.21	98	1410542	11.61	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	92.88%
9) 4-Bromofluorobenzene (SU4)	15.21	95	700102	13.96	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	111.68%

Target Compounds

Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800002.D

Vial: 1

Acq On : 28 May 2014 8:47 am

Operator: DN

Sample : 3E42801-02

Inst : GC/MS Ins

Misc : 100cc SVL-515-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 9:16 19114

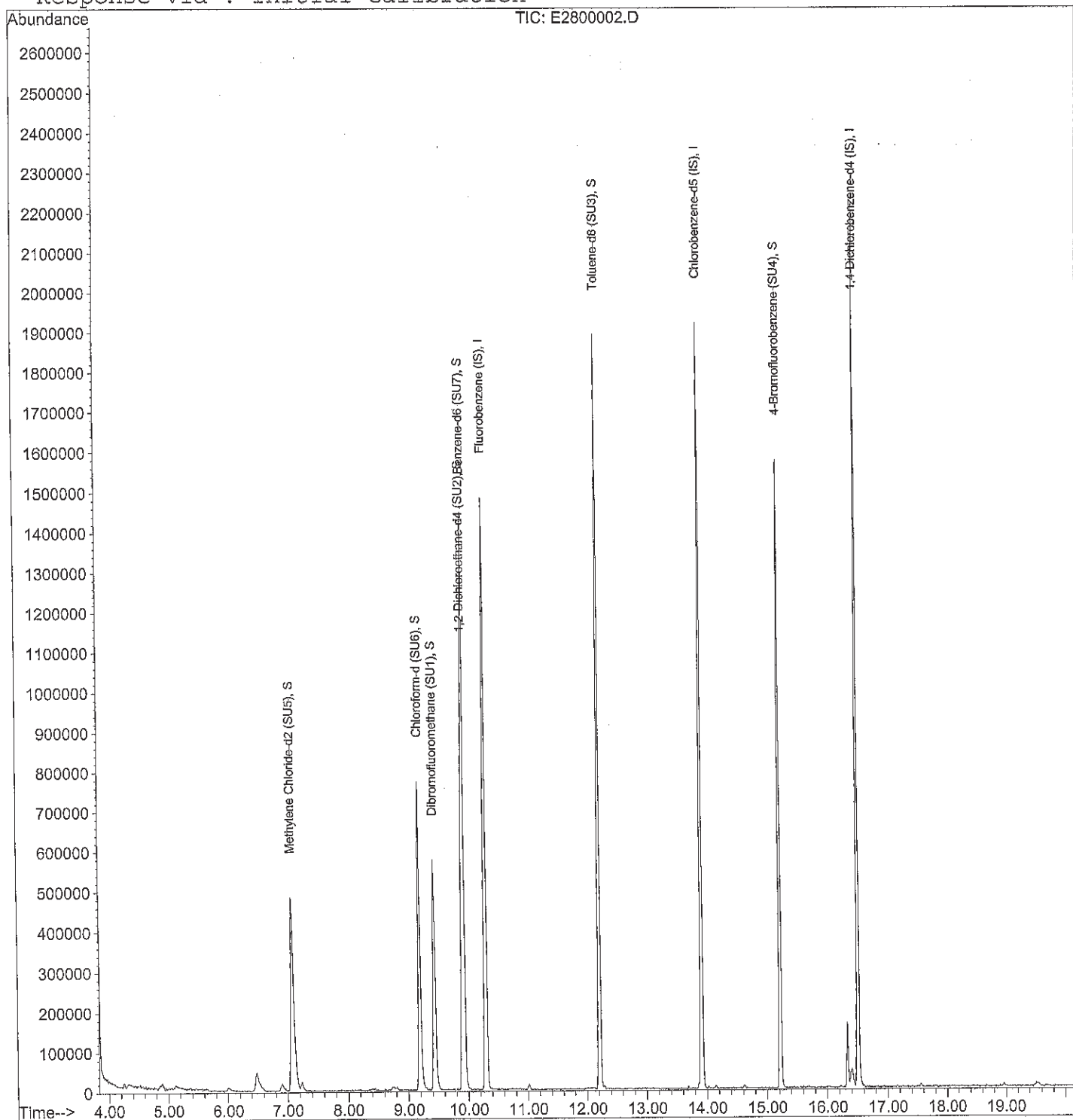
Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052814L3\E2800004.D

Vial: 3

Acq On : 28 May 2014 9:49 am

Operator: DN

Sample : 3E42801-03

Inst : GC/MS Ins

Misc : 100cc SVL-815-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 10:16 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1588325	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1230604	12.50	ug/L	-0.01
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	662439	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	467461	11.80	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.40%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	447278	11.88	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.04%
39) Toluene-d8 (SU3)	12.21	98	1406762	12.26	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	98.08%
58) 4-Bromofluorobenzene (SU4)	15.22	95	693511	13.78	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	110.24%

Target Compounds

					Qvalue	
4) Chloromethane	4.40	50	1770	-0.56	ug/L	# 41
6) Bromomethane	5.12	96	5143	1.17	ug/L	# 20
7) Chloroethane	5.27	64	1444	1.78	ug/L	# 32
11) Acetone	6.45	58	2870	179.09	ug/L	# 1
12) (IPA) Leak Check Compound	6.48	45	115496	605.13	ug/L	# 87
13) Carbon disulfide	6.85	76	2830	0.21	ug/L	# 76
14) Methylene Chloride	7.07	84	6463	1.48	ug/L	# 1
15) (TBA) tert-Butanol	6.98	59	262	0.97	ug/L	# 77
20) 2,2-Dichloropropane	8.86	77	256	0.04	ug/L	# 36
24) Chloroform	9.21	83	3231	0.39	ug/L	# 18
29) 1,1-Dichloropropene	9.92	75	254	0.04	ug/L	# 1
31) Benzene	9.93	78	11131	0.74	ug/L	# 78
32) 1,2-Dichloroethane	9.93	62	7685	1.45	ug/L	# 1
40) (MIBK) 4-Methyl-2-Pentanone	12.21	43	6666	2.71	ug/L	# 100
41) Toluene	12.28	91	6141	0.37	ug/L	# 92
46) 2-Hexanone	12.93	43	1905	0.71	ug/L	# 37
51) Ethylbenzene	14.02	91	2528	0.13	ug/L	# 145
52) m,p-Xylenes	14.14	106	2389	0.35	ug/L	# 97
53) o-Xylene	14.61	106	976	0.15	ug/L	# 36
54) Styrene	14.62	104	1867	-0.68	ug/L	# 68
56) Isopropylbenzene	15.00	105	297	0.02	ug/L	# 55
62) n-Propylbenzene	15.46	91	641	0.02	ug/L	# 56

(#) = qualifier out of range (m) = manual integration

E2800004.D MW111313.M

Wed May 28 10:17:02 2014

Page 1

Data File : C:\HPCHEM\1\DATA\052814L3\E2800004.D

Vial: 3

Acq On : 28 May 2014 9:49 am

Operator: DN

Sample : 3E42801-03

Inst : GC/MS Ins

Misc : 100cc SVL-815-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 10:16 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63) 2-Chlorotoluene	15.60	91	302	0.02	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.57	105	292	0.02	ug/L #	31
65) 4-Chlorotoluene	15.60	91	302	0.02	ug/L #	44
67) 1,2,4-Trimethylbenzene	16.06	105	1104	0.06	ug/L #	33
68) sec-Butylbenzene	16.33	105	3272	0.15	ug/L #	62
69) p-Isopropyltoluene	16.37	119	1069	0.06	ug/L #	52

(#) = qualifier out of range (m) = manual integration

E2800004.D MW111313.M

Wed May 28 10:17:03 2014

Page 2

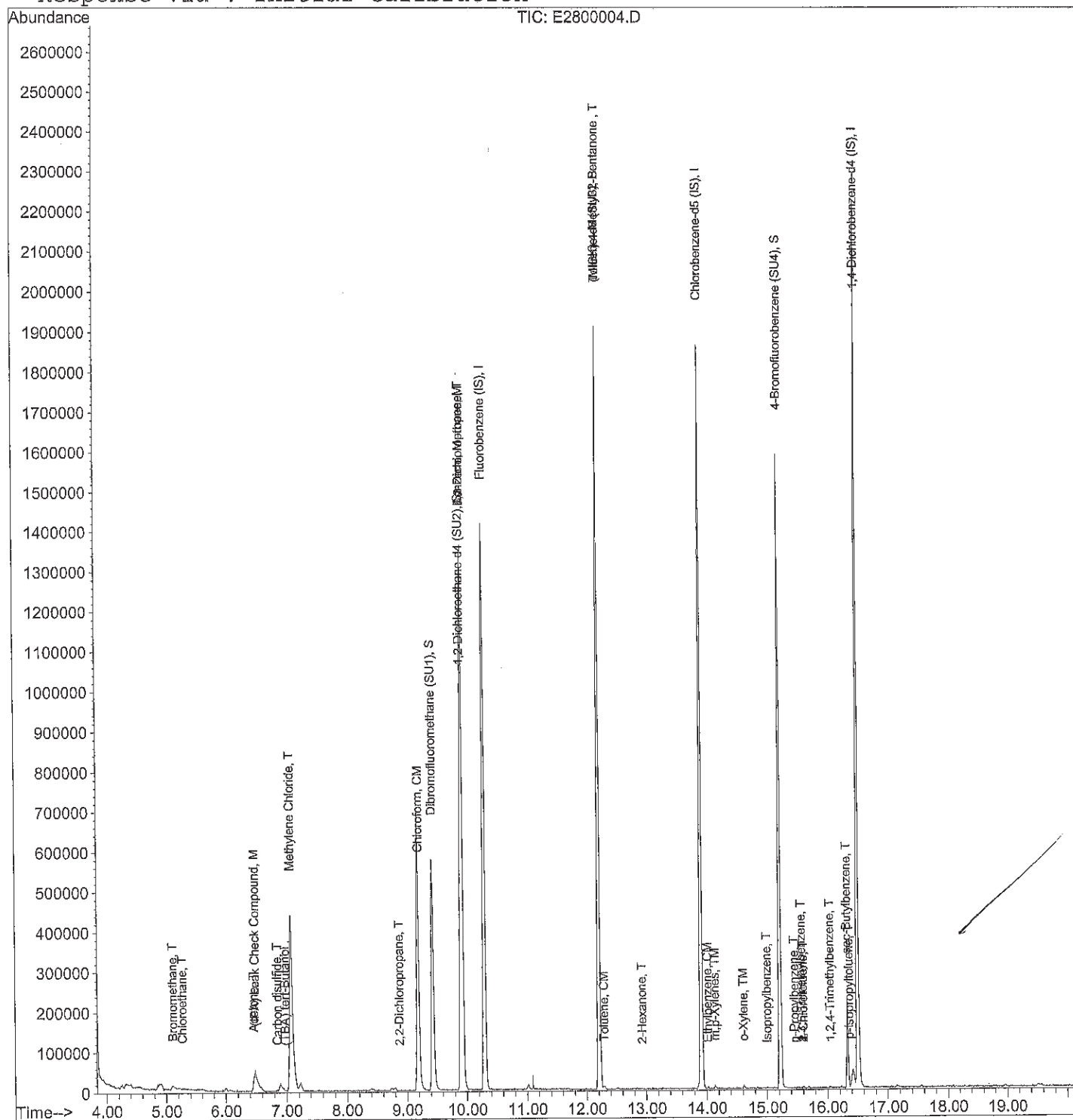
Quantitation Report

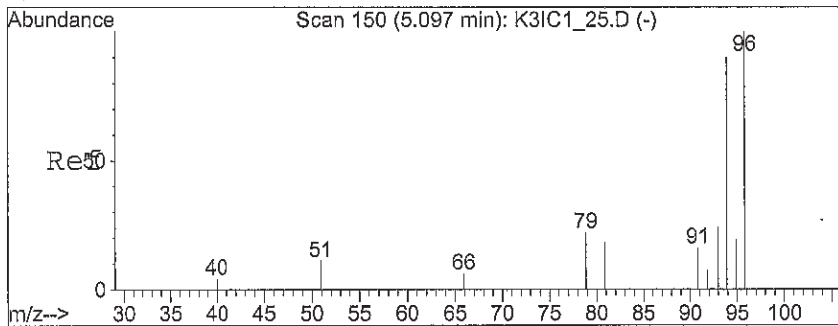
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Acq On : 28 May 2014 9:49 am
Sample : 3E42801-03
Misc : 100cc SVL-815-SA5D-SV-5.0-6.0
MS Integration Params: rteint.p
Quant Time: May 28 10:16 19114

Vial: 3
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

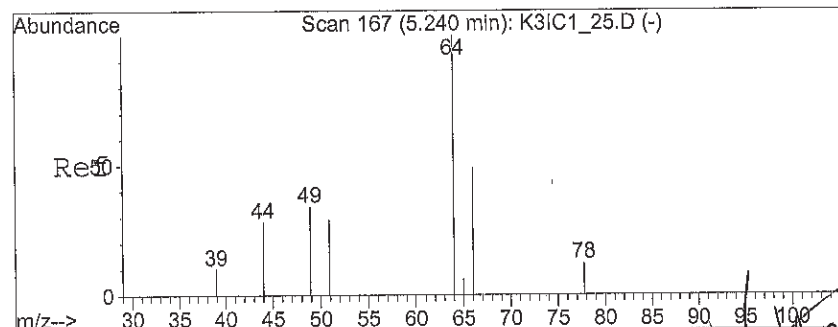
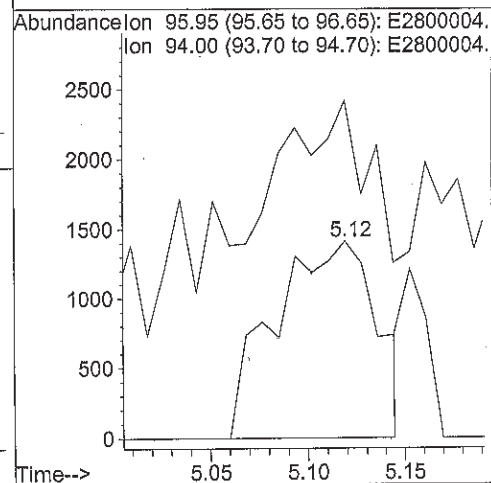
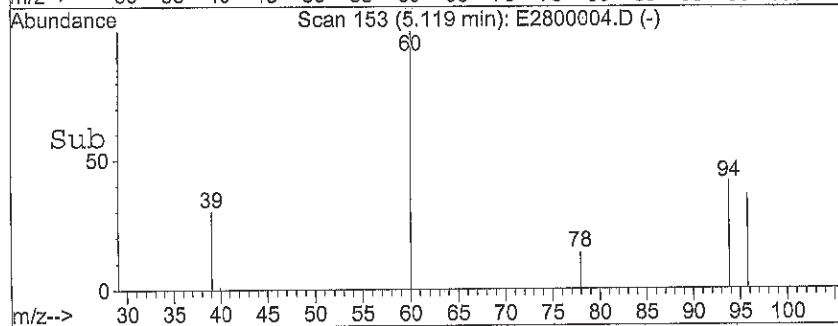
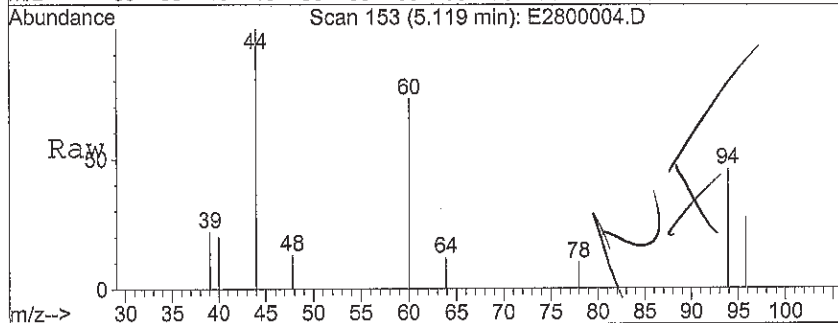
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration





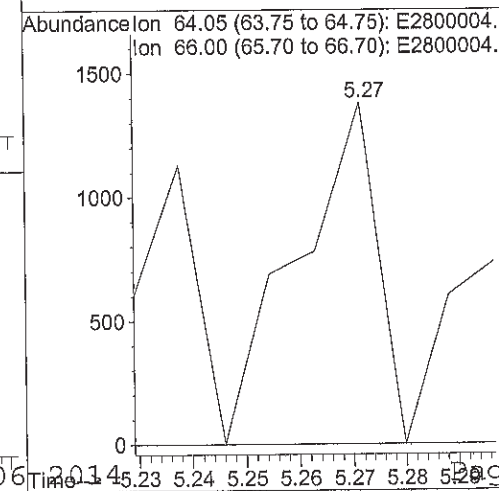
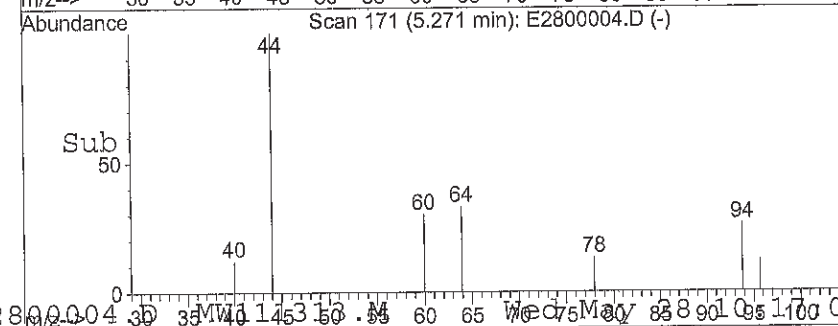
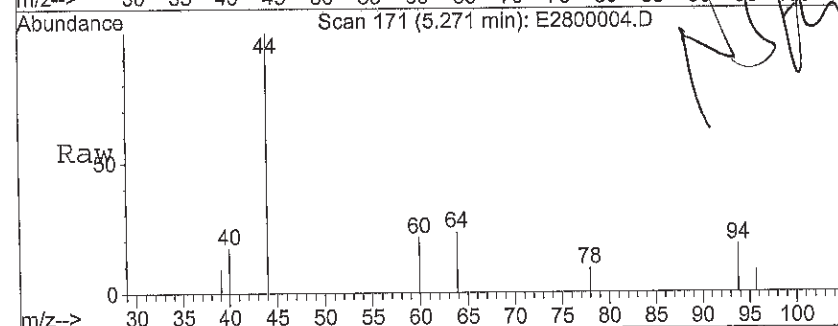
#6
 Bromomethane
 Concen: 1.17 ug/L
 RT: 5.12 min Scan# 153
 Delta R.T. 0.02 min
 Lab File: E2800004.D
 Acq: 28 May 2014 9:49 am

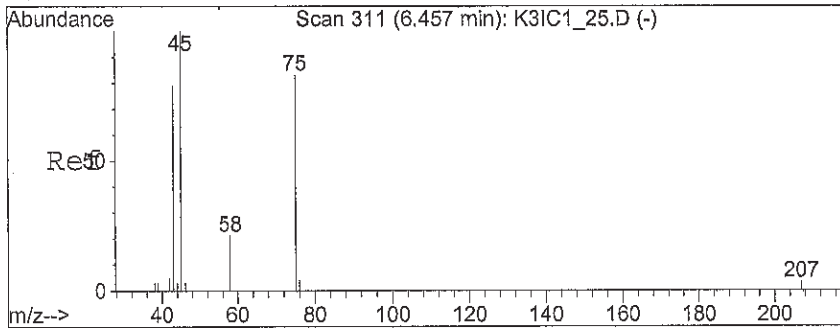
Tgt Ion: 96 Resp: 5143
 Ion Ratio Lower Upper
 96 100
 94 217.3 101.0 151.4#



#7
 Chloroethane
 Concen: 1.78 ug/L
 RT: 5.27 min Scan# 171
 Delta R.T. 0.03 min
 Lab File: E2800004.D
 Acq: 28 May 2014 9:49 am

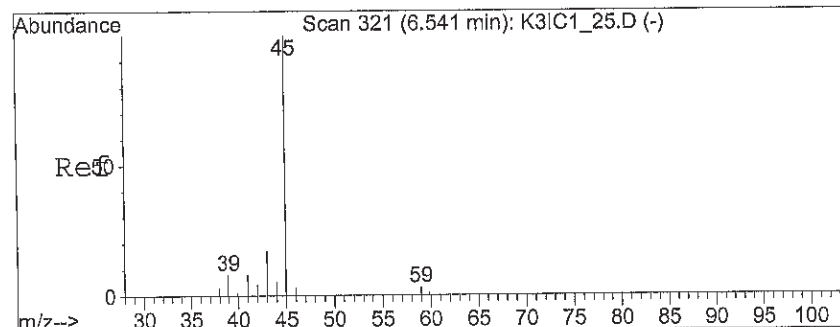
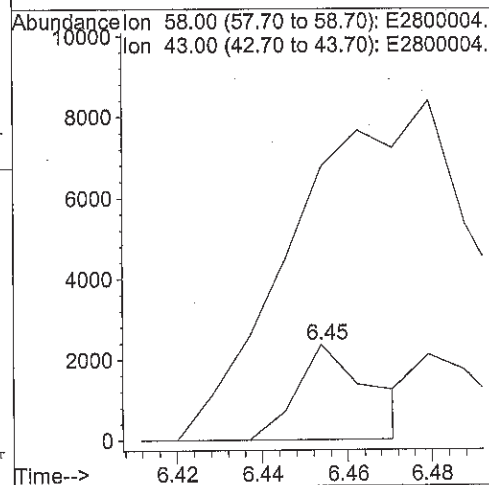
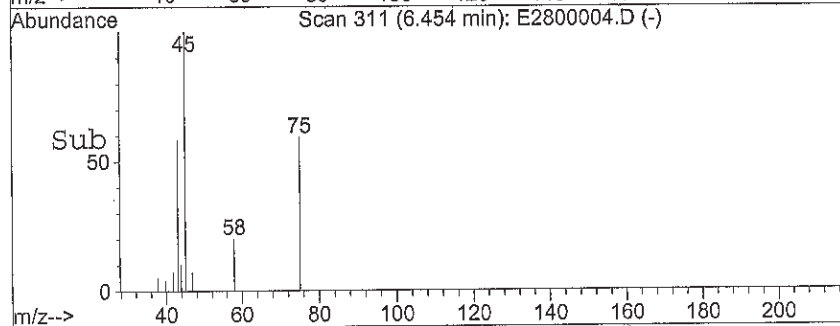
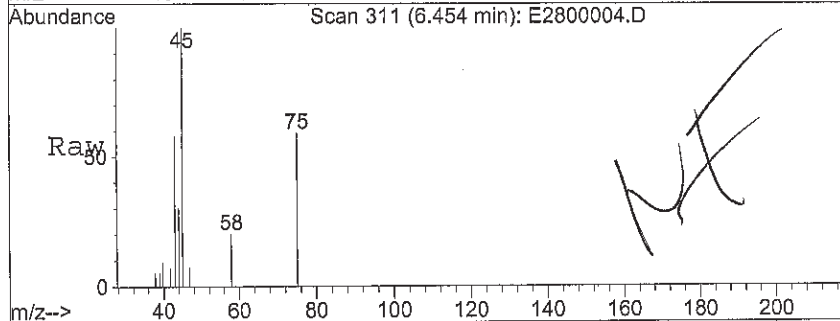
Tgt Ion: 64 Resp: 1444
 Ion Ratio Lower Upper
 64 100
 66 0.0 35.4 53.0#





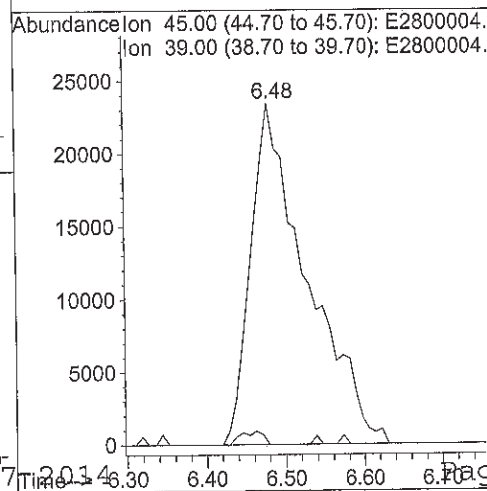
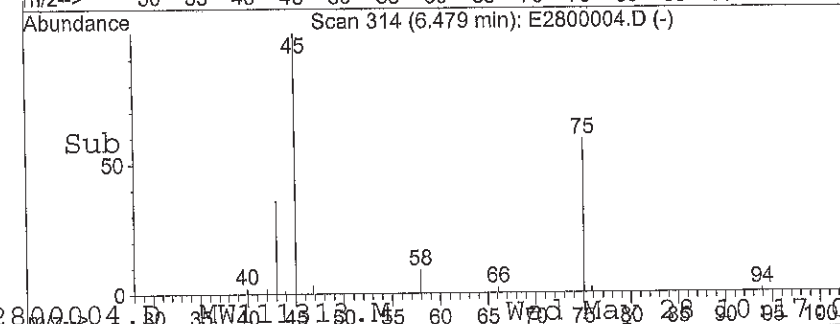
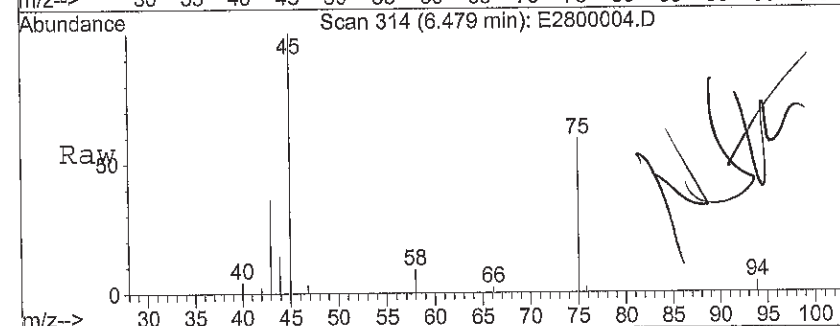
#11
 Acetone
 Concen: 179.09 ug/L
 RT: 6.45 min Scan# 311
 Delta R.T. -0.00 min
 Lab File: E2800004.D
 Acq: 28 May 2014 9:49 am

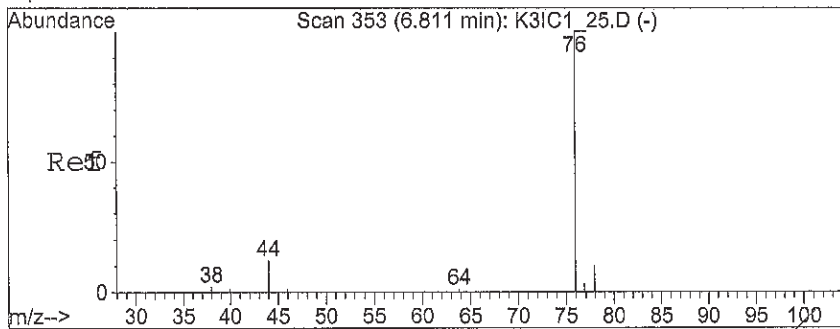
Tgt Ion: 58 Resp: 2870
 Ion Ratio Lower Upper
 58 100
 43 0.0 360.9 541.3#



#12
 (IPA) Leak Check Compound
 Concen: 605.13 ug/L
 RT: 6.48 min Scan# 314
 Delta R.T. -0.06 min
 Lab File: E2800004.D
 Acq: 28 May 2014 9:49 am

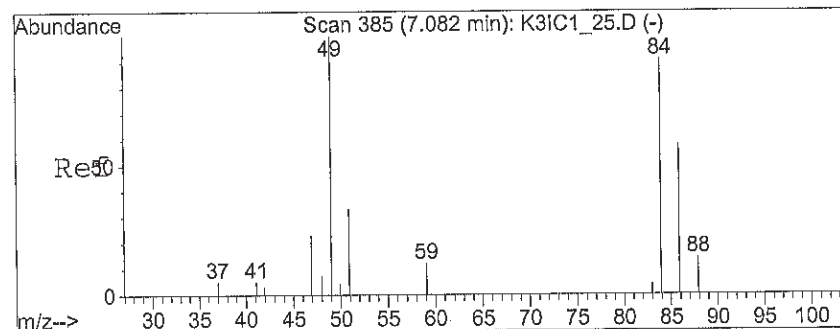
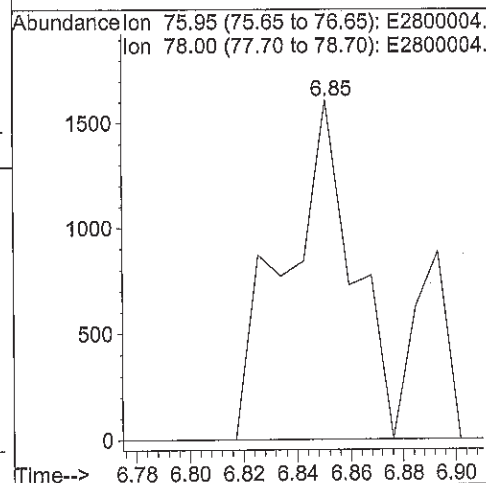
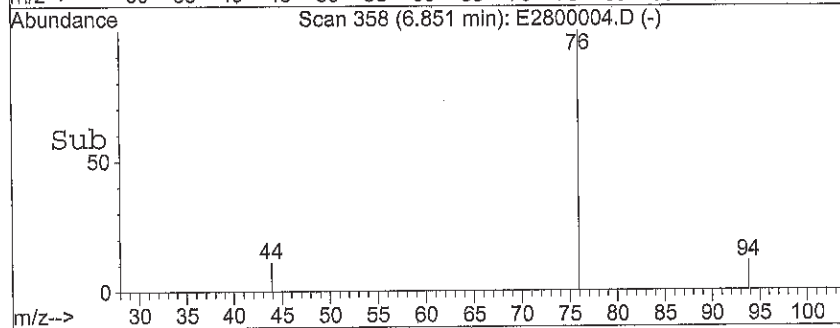
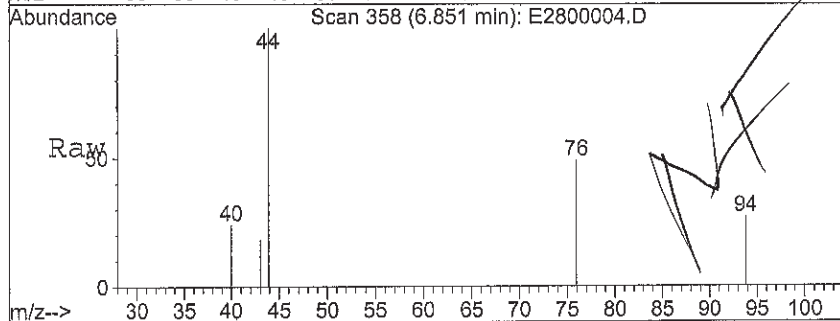
Tgt Ion: 45 Resp: 115496
 Ion Ratio Lower Upper
 45 100
 39 1.6 4.9 7.3#





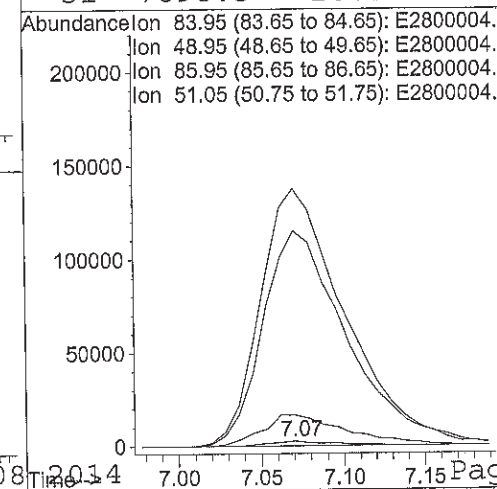
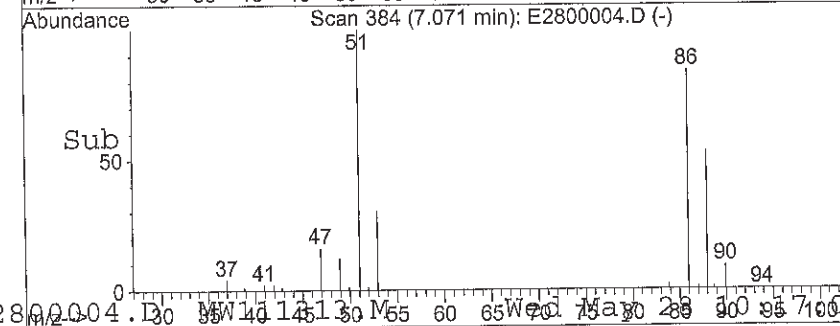
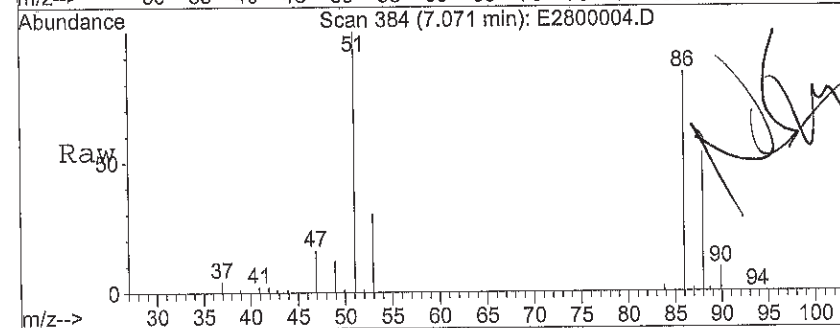
#13
Carbon disulfide
Concen: 0.21 ug/L
RT: 6.85 min Scan# 358
Delta R.T. 0.04 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

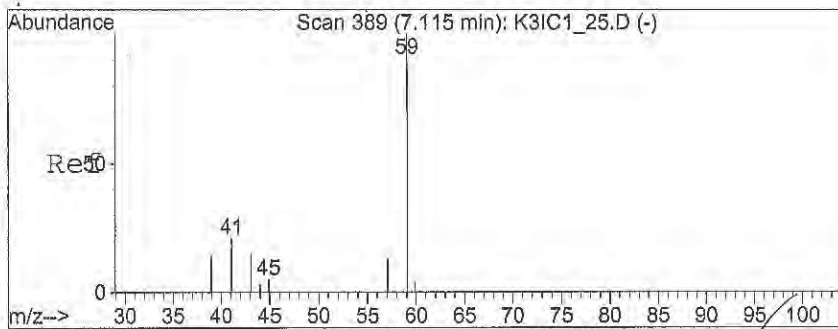
Tgt Ion: 76 Resp: 2830
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#14
Methylene Chloride
Concen: 1.48 ug/L
RT: 7.07 min Scan# 384
Delta R.T. -0.01 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

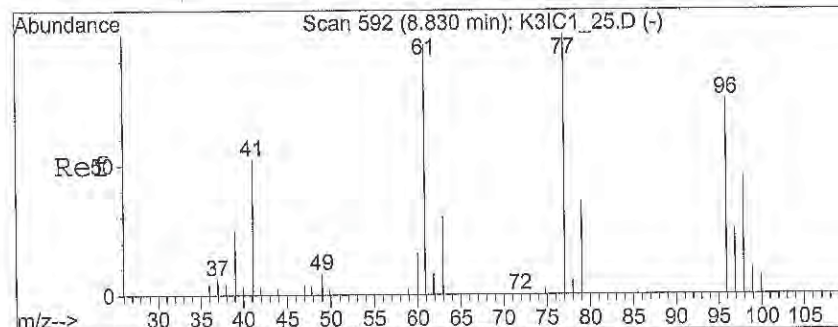
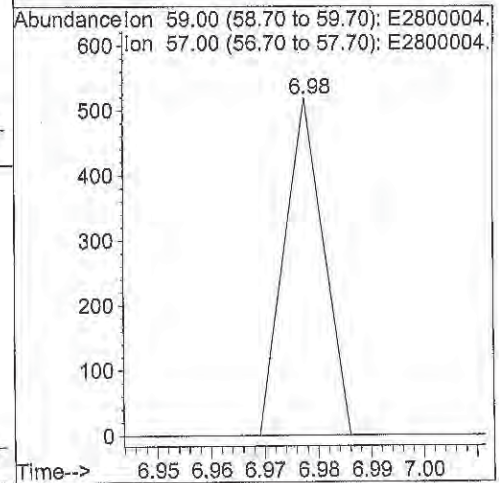
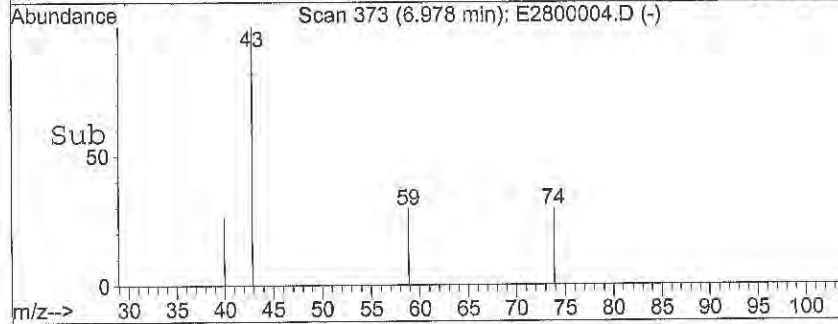
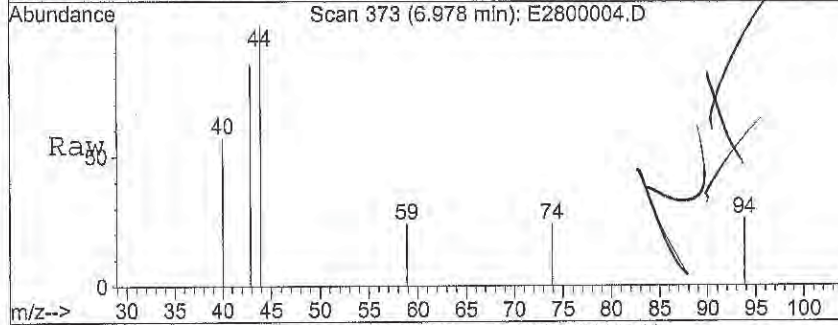
Tgt Ion: 84 Resp: 6463
Ion Ratio Lower Upper
84 100
49 905.0 89.8 134.6#
86 6361.0 51.1 76.7#
51 7698.3 28.5 42.7#





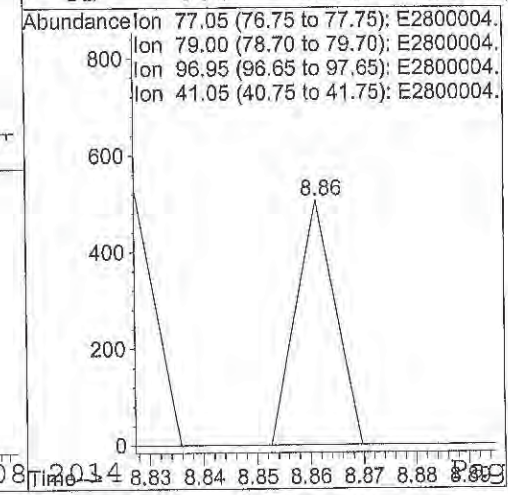
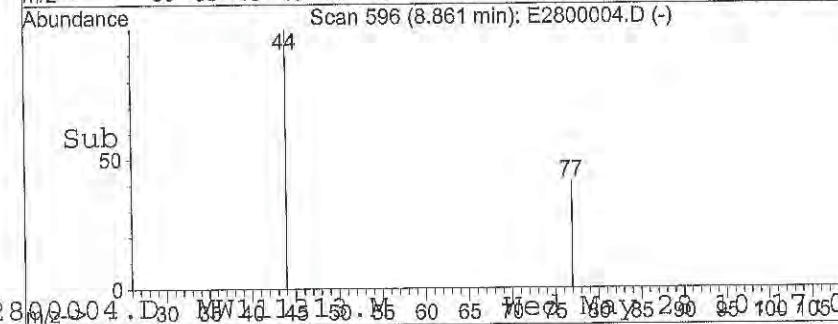
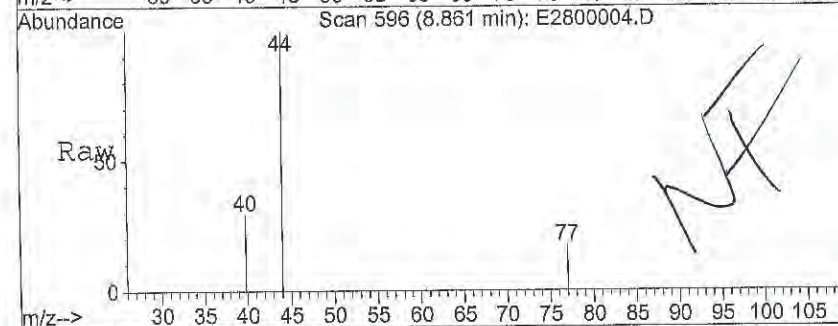
#15
 (TBA) tert-Butanol
 Concen: 0.97 ug/L
 RT: 6.98 min Scan# 373
 Delta R.T. -0.14 min
 Lab File: E2800004.D
 Acq: 28 May 2014 9:49 am

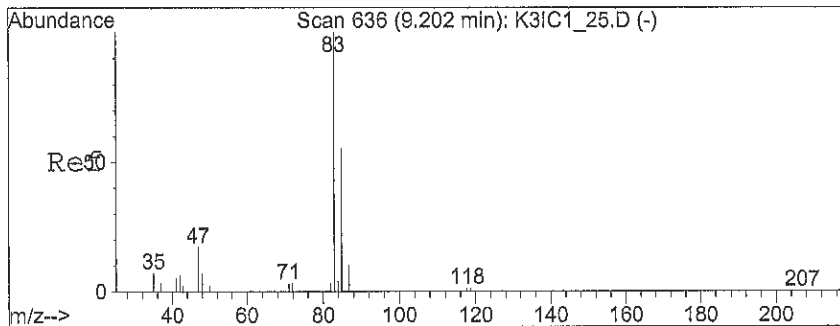
Tgt Ion: 59 Resp: 262
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#20
 2,2-Dichloropropane
 Concen: 0.04 ug/L
 RT: 8.86 min Scan# 596
 Delta R.T. 0.03 min
 Lab File: E2800004.D
 Acq: 28 May 2014 9:49 am

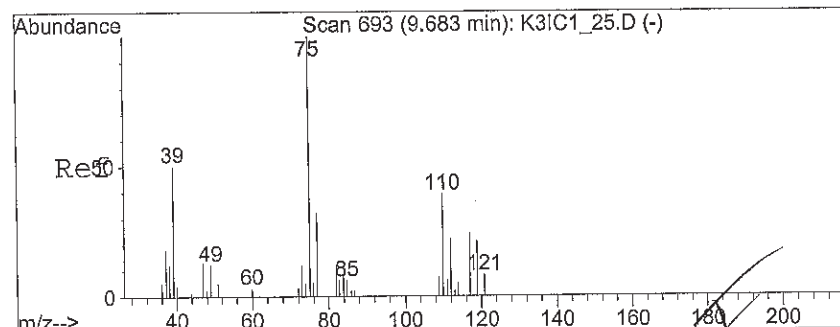
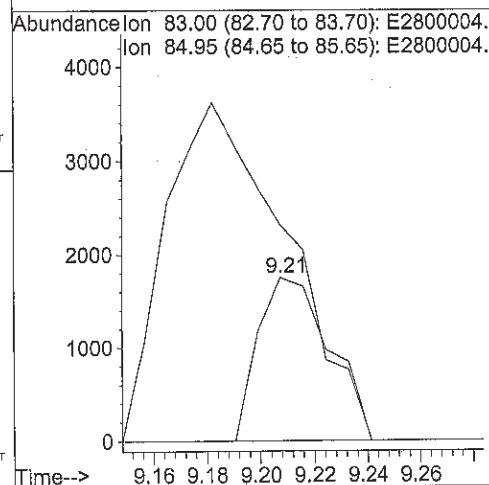
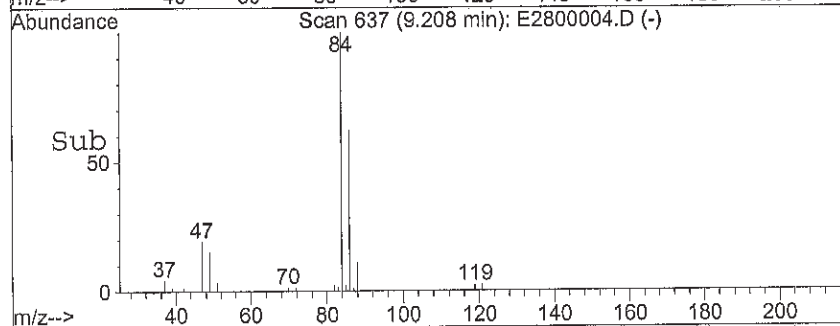
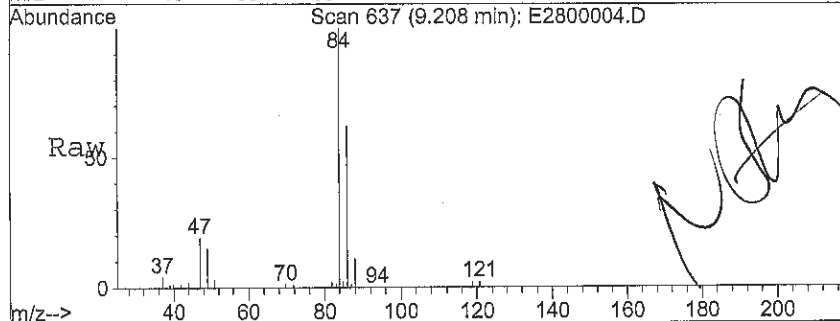
Tgt Ion: 77 Resp: 256
 Ion Ratio Lower Upper
 77 100
 79 0.0 26.6 40.0#
 97 0.0 18.9 28.3#
 41 0.0 42.6 64.0#





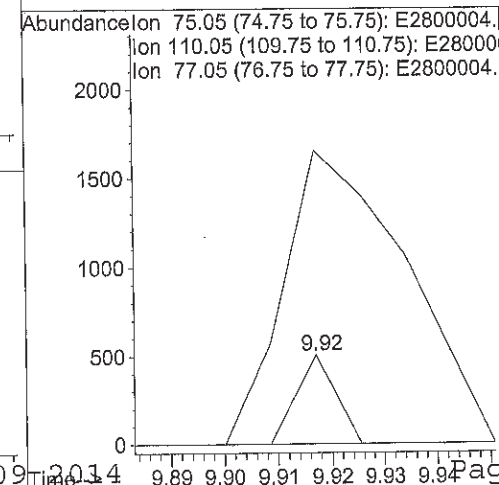
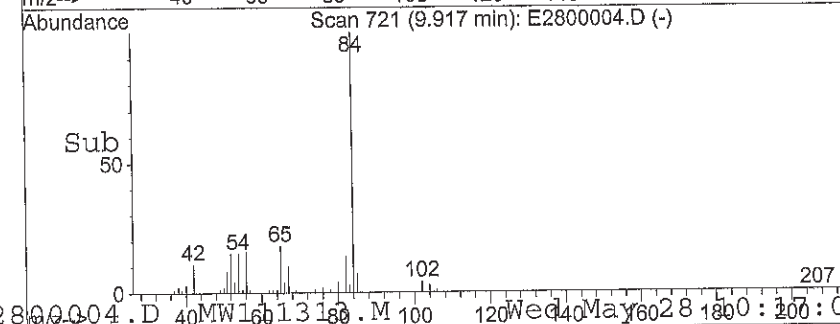
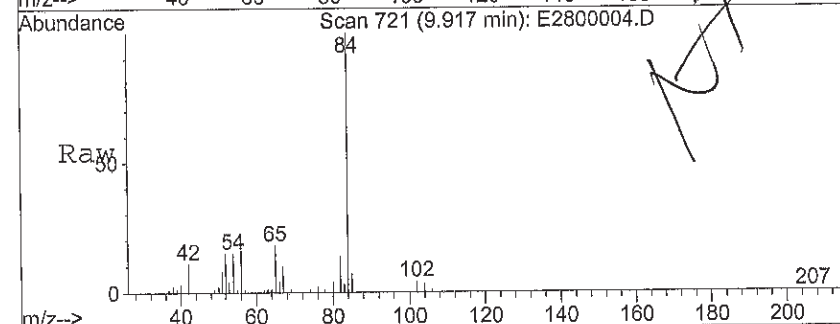
#24
Chloroform
Concen: 0.39 ug/L
RT: 9.21 min Scan# 637
Delta R.T. 0.01 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

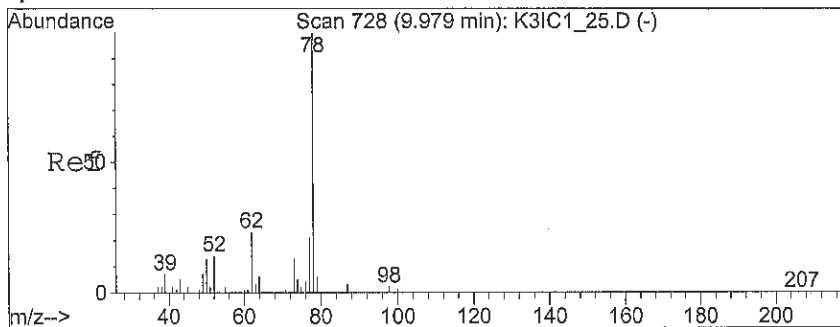
Tgt Ion: 83 Resp: 3231
Ion Ratio Lower Upper
83 100
85 0.0 51.8 77.6#



#29
1,1-Dichloropropene
Concen: 0.04 ug/L
RT: 9.92 min Scan# 721
Delta R.T. 0.23 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

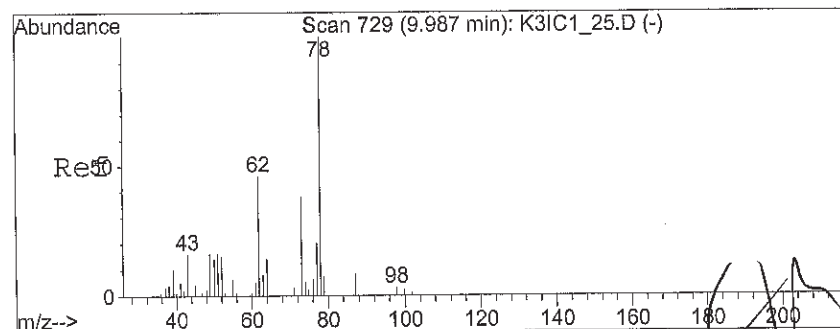
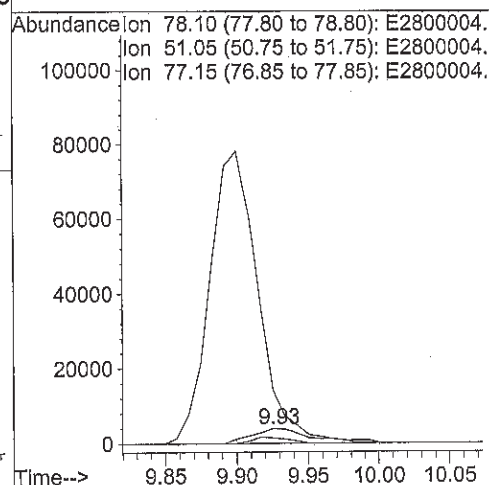
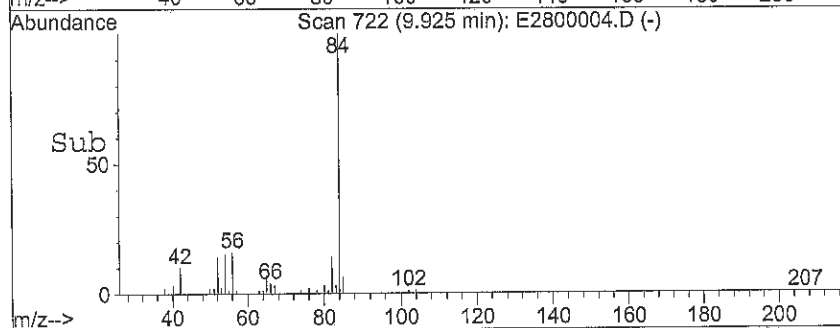
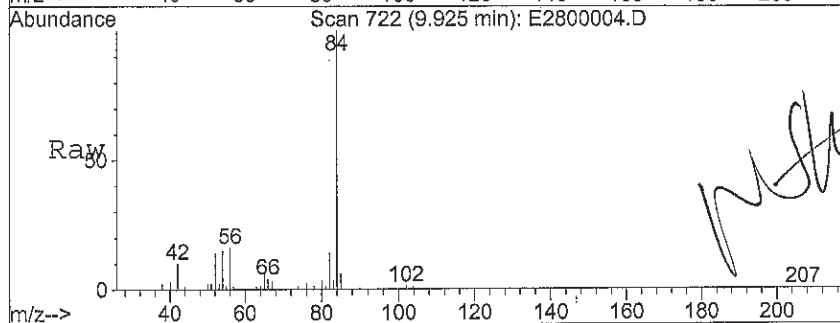
Tgt Ion: 75 Resp: 254
Ion Ratio Lower Upper
75 100
110 0.0 29.0 43.6#
77 1042.9 25.0 37.4#





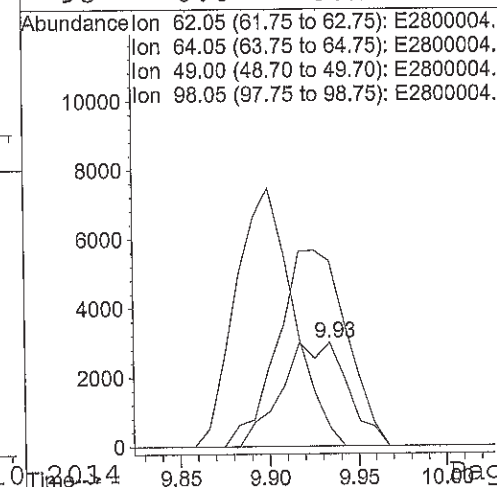
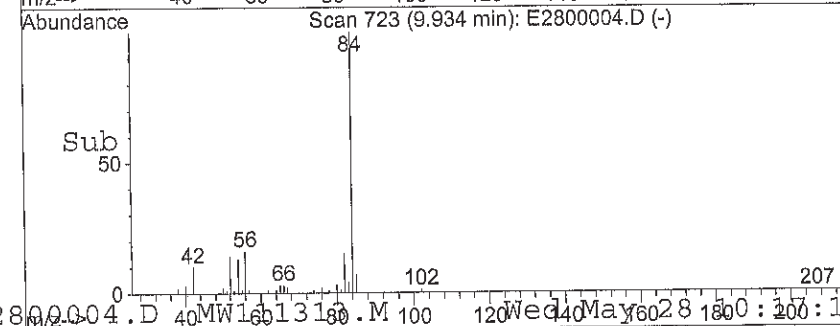
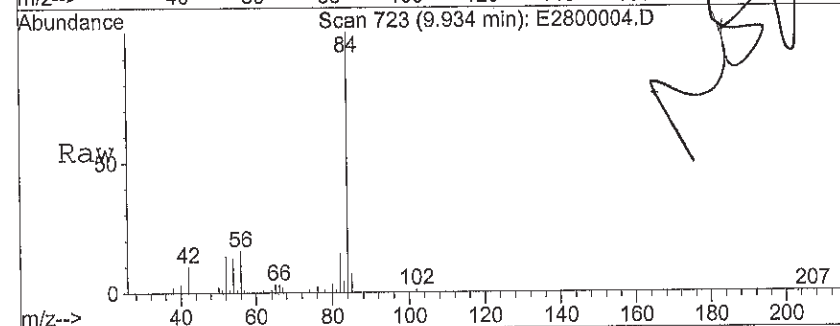
#31
Benzene
Concen: 0.74 ug/L
RT: 9.93 min Scan# 722
Delta R.T. -0.05 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

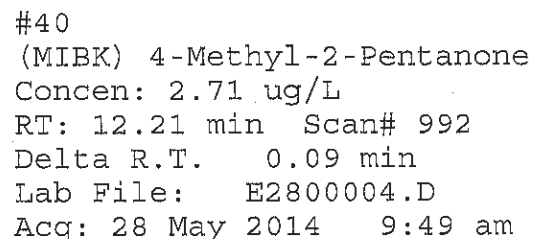
Tgt Ion: 78 Resp: 11131
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 23.8 16.6 24.8



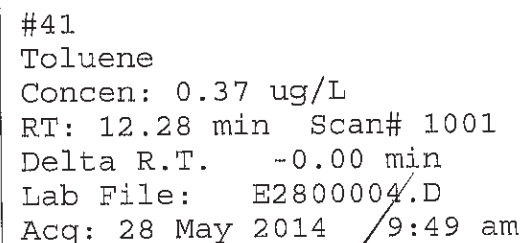
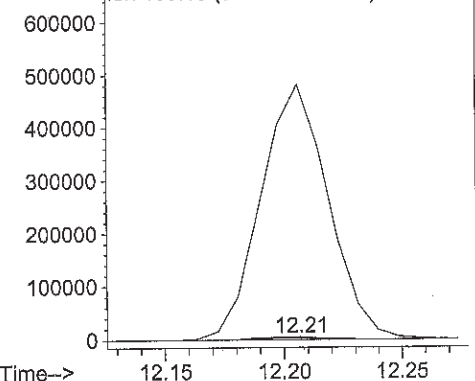
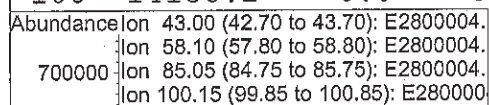
#32
1,2-Dichloroethane
Concen: 1.45 ug/L
RT: 9.93 min Scan# 723
Delta R.T. -0.05 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

Tgt Ion: 62 Resp: 7685
Ion Ratio Lower Upper
62 100
64 198.2 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#

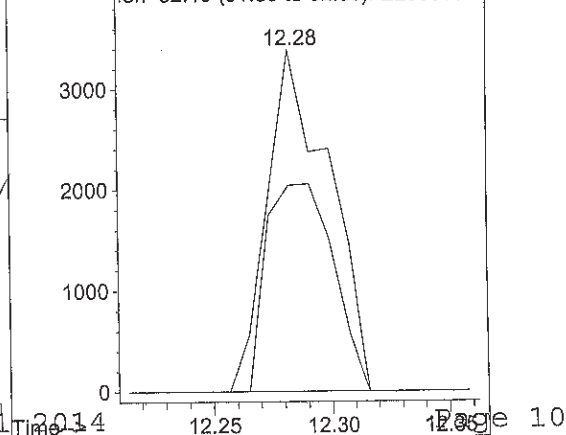
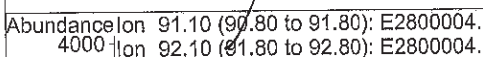


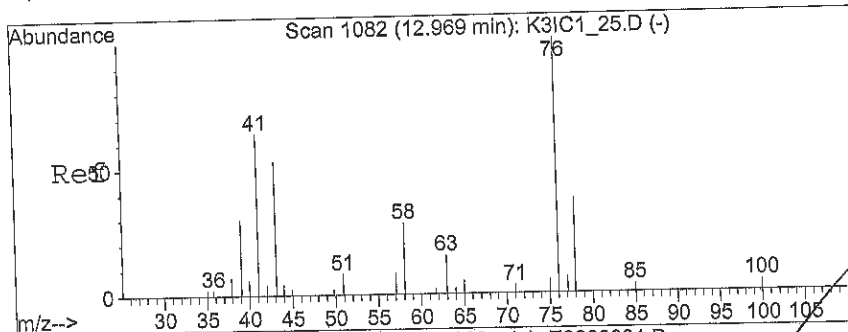


Tgt	Ion: 43	Resp:	6666
Ion	Ratio	Lower	Upper
43	100		
58	156.8	0.0	0.0#
85	0.0	0.0	0.0
100	14186.2	0.0	0.0#



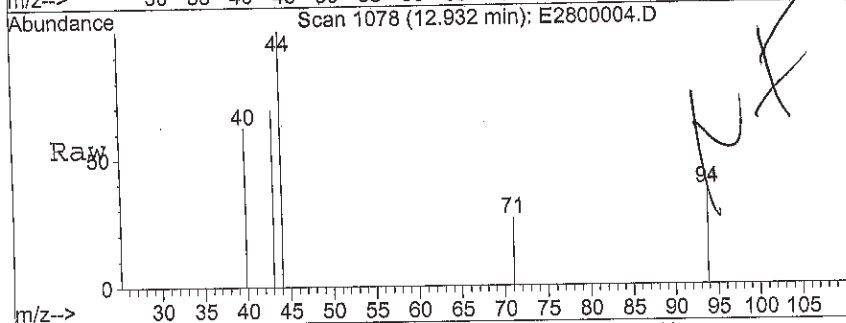
Tgt	Ion: 91	Resp:	6141
Ion	Ratio	Lower	Upper
91	100		
92	65.3	47.4	71.0



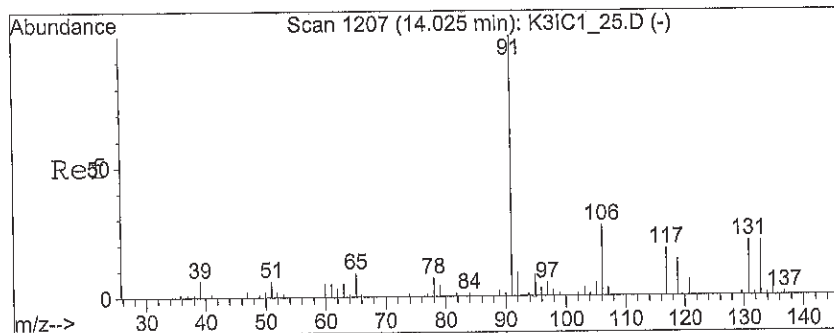
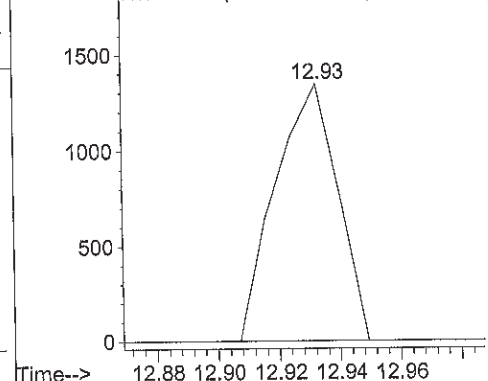
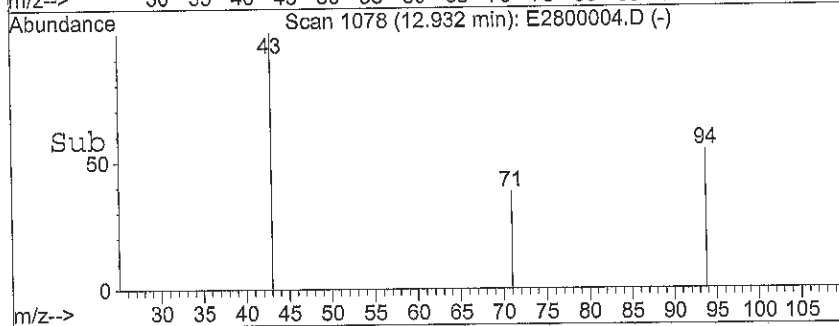


#46
2-Hexanone
Concen: 0.71 ug/L
RT: 12.93 min Scan# 1078
Delta R.T. -0.04 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

Tgt Ion: 43 Resp: 1905
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#

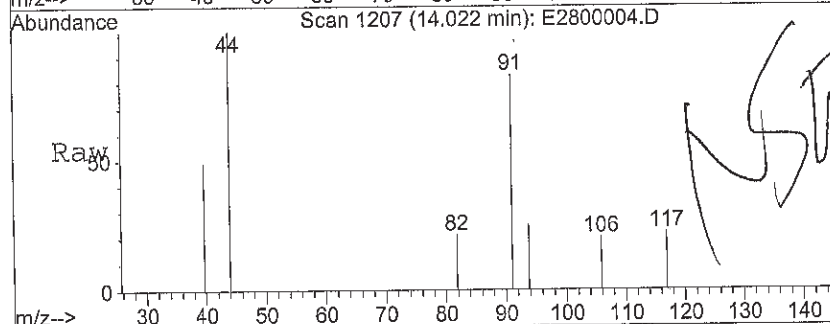


Abundance Ion 43.00 (42.70 to 43.70): E2800004.
Ion 58.10 (57.80 to 58.80): E2800004.
Ion 100.15 (99.85 to 100.85): E2800004.
Ion 85.05 (84.75 to 85.75): E2800004.

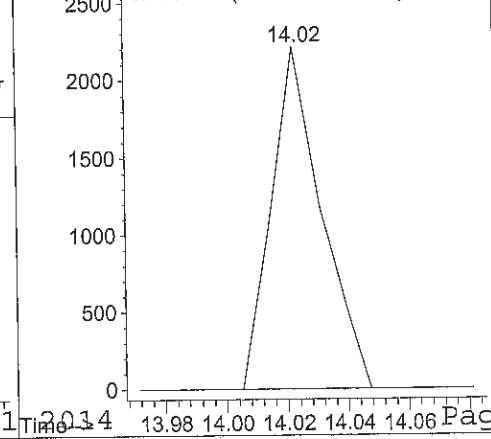
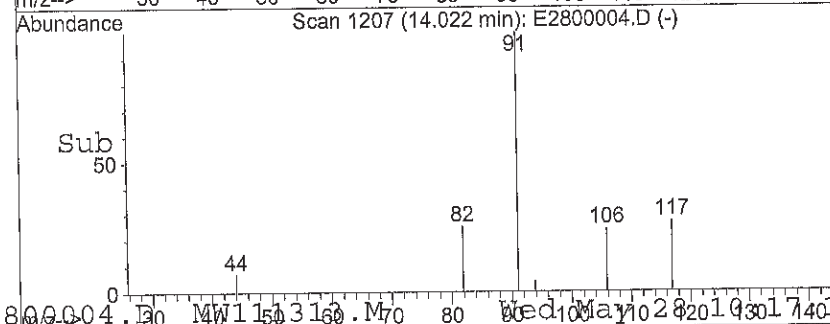


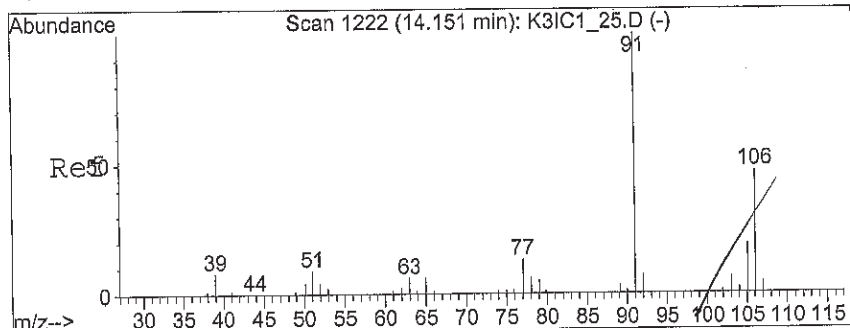
#51
Ethylbenzene
Concen: 0.13 ug/L
RT: 14.02 min Scan# 1207
Delta R.T. -0.00 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

Tgt Ion: 91 Resp: 2528
Ion Ratio Lower Upper
91 100
106 0.0 23.5 35.3#



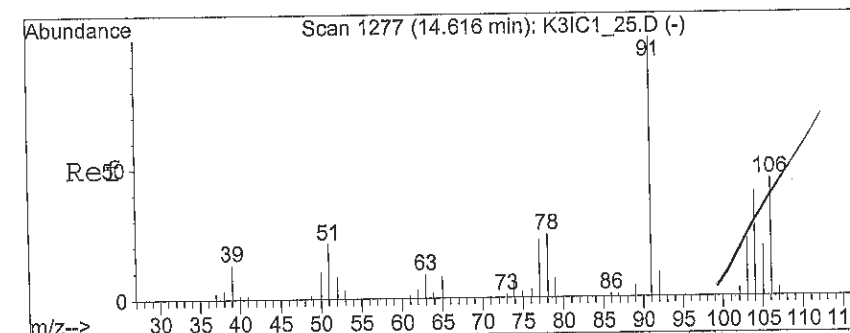
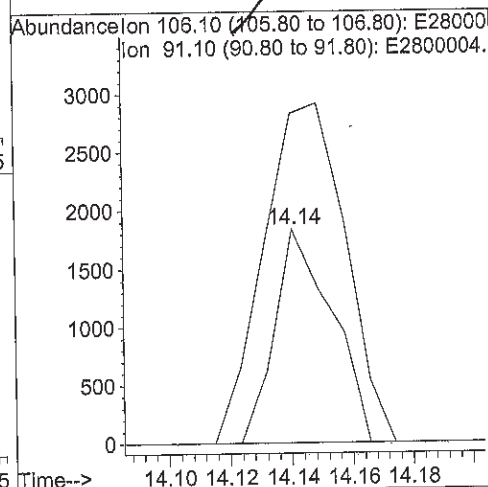
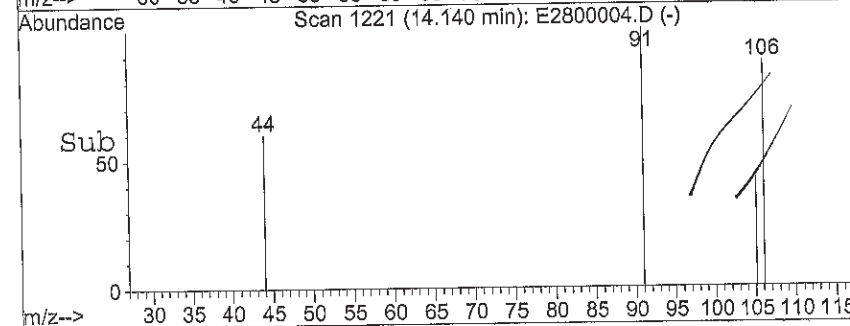
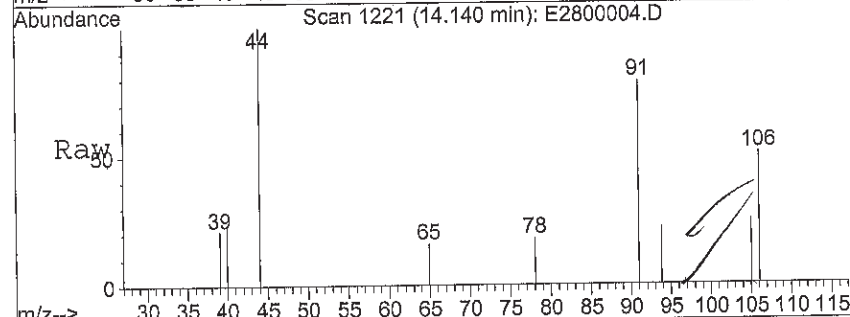
Abundance Ion 91.10 (90.80 to 91.80): E2800004.
Ion 106.20 (105.90 to 106.90): E2800004.





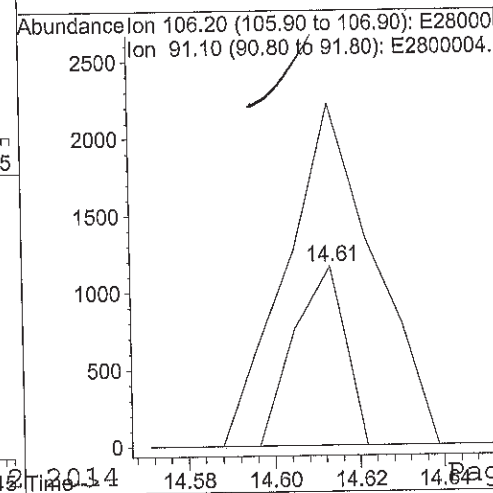
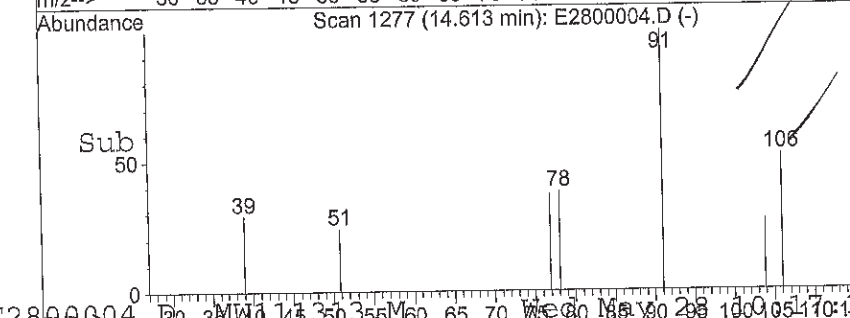
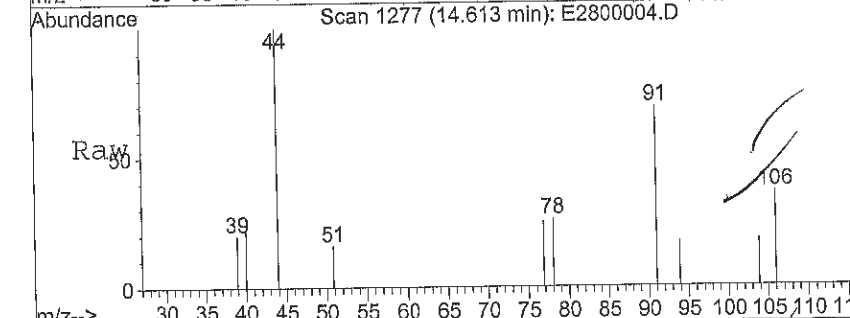
#52
m,p-Xylenes
Concen: 0.35 ug/L
RT: 14.14 min Scan# 1221
Delta R.T. -0.01 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

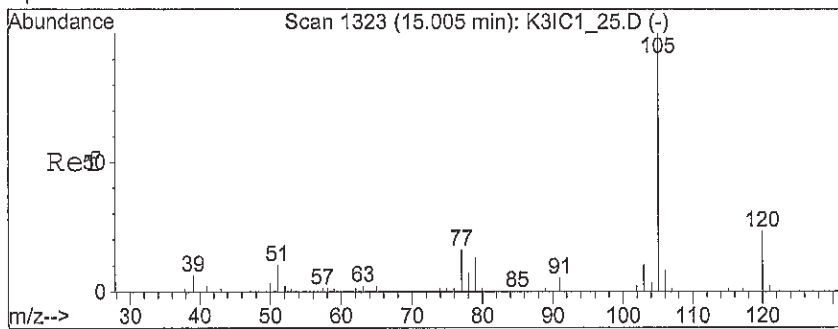
Tgt Ion:106 Resp: 2389
Ion Ratio Lower Upper
106 100
91 225.4 177.1 265.7



#53
o-Xylene
Concen: 0.15 ug/L
RT: 14.61 min Scan# 1277
Delta R.T. -0.00 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

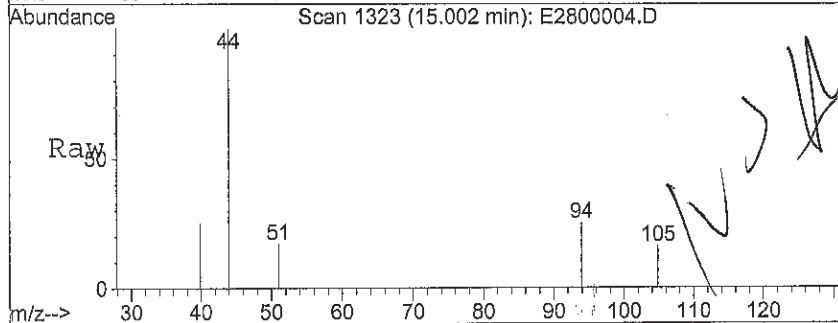
Tgt Ion:106 Resp: 976
Ion Ratio Lower Upper
106 100
91 327.3 179.0 268.6#





#56
Isopropylbenzene
Concen: 0.02 ug/L
RT: 15.00 min Scan# 1323
Delta R.T. -0.00 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	19.3	28.9#
77	0.0	13.1	19.7#

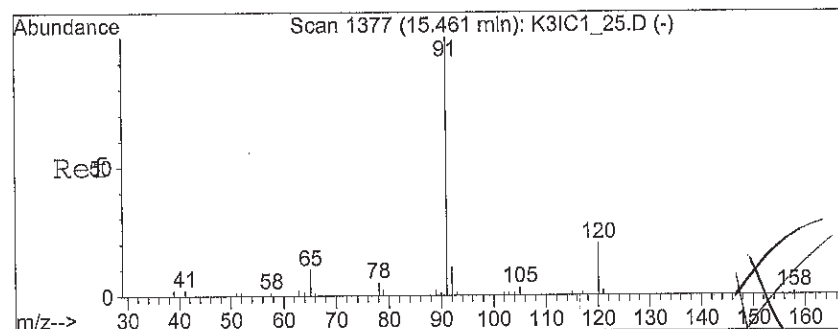
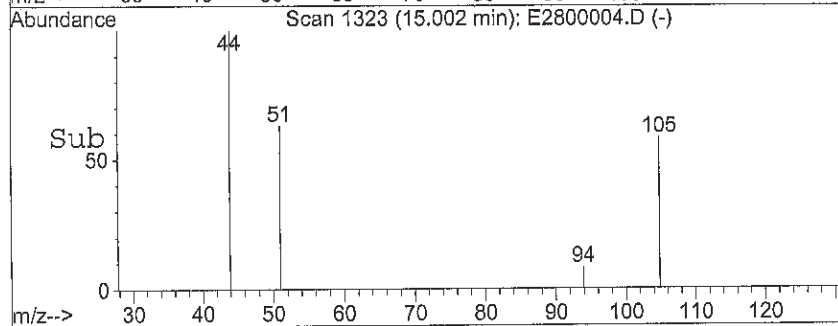
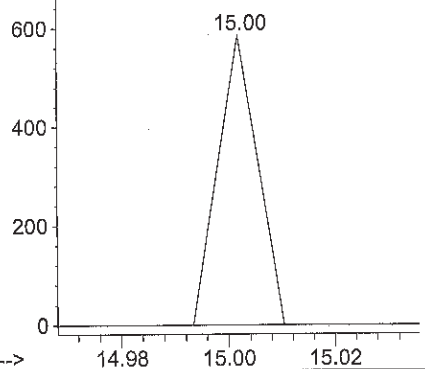


Abundance

Ion 105.10 (104.80 to 105.80): E2800004.D

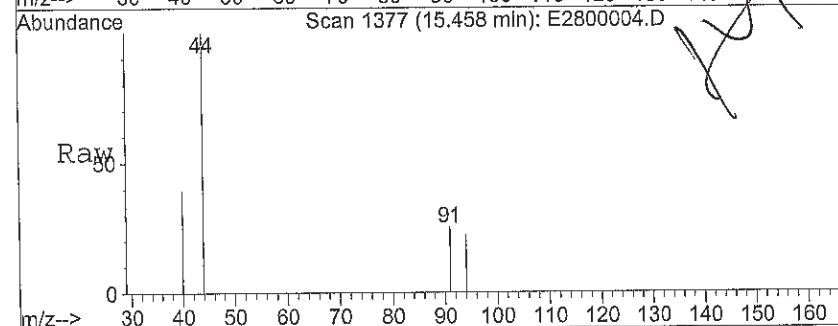
Ion 120.15 (119.85 to 120.85): E2800004.D

Ion 77.05 (76.75 to 77.75): E2800004.D



#62
n-Propylbenzene
Concen: 0.02 ug/L
RT: 15.46 min Scan# 1377
Delta R.T. -0.00 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

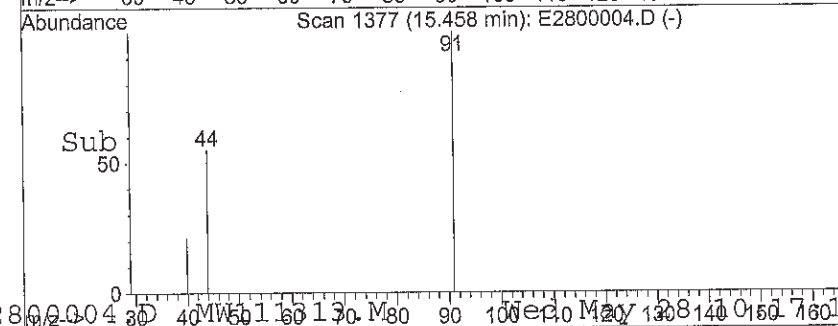
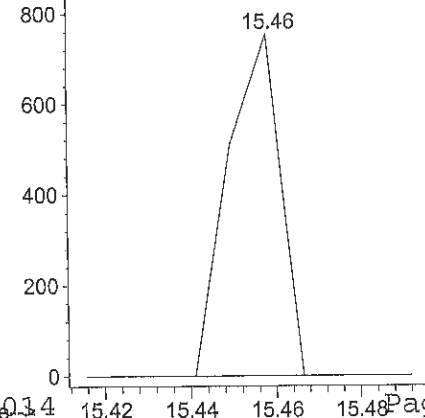
Tgt Ion	Ratio	Lower	Upper
91	100		
120	0.0	16.1	24.1#

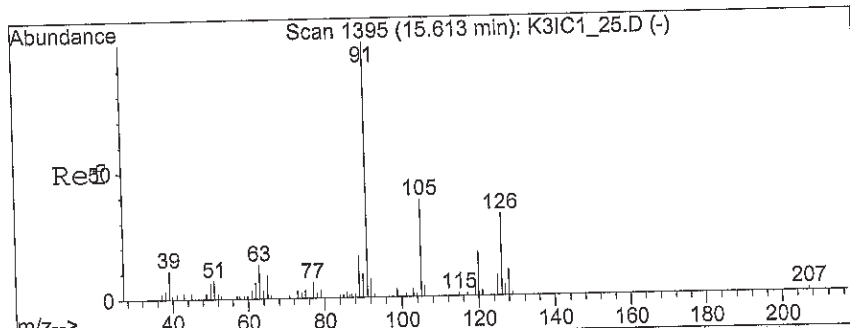


Abundance

Ion 91.10 (90.80 to 91.80): E2800004.D

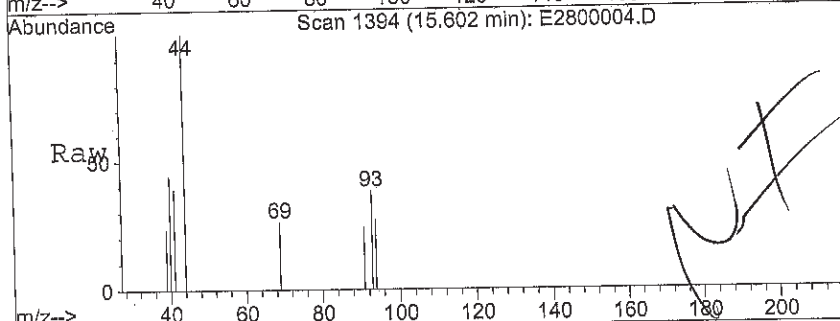
Ion 120.15 (119.85 to 120.85): E2800004.D



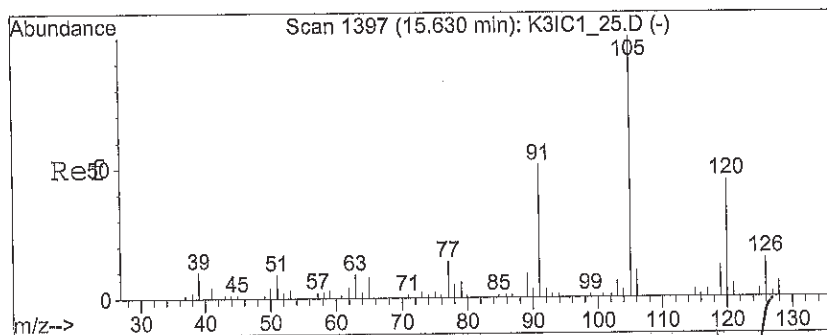
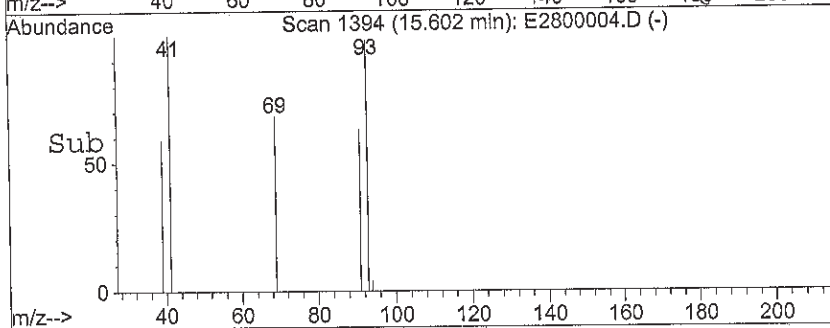
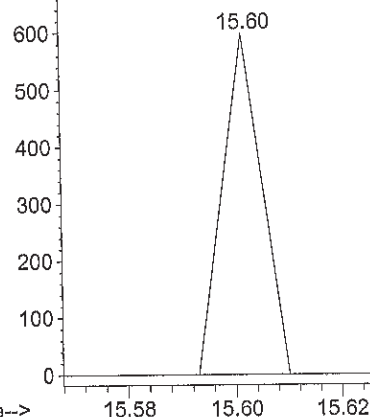


#63
 2-Chlorotoluene
 Concen: 0.02 ug/L
 RT: 15.60 min Scan# 1394
 Delta R.T. -0.01 min
 Lab File: E2800004.D
 Acq: 28 May 2014 9:49 am

Tgt Ion: 91 Resp: 302
 Ion Ratio Lower Upper
 91 100
 126 0.0 24.0 36.0#

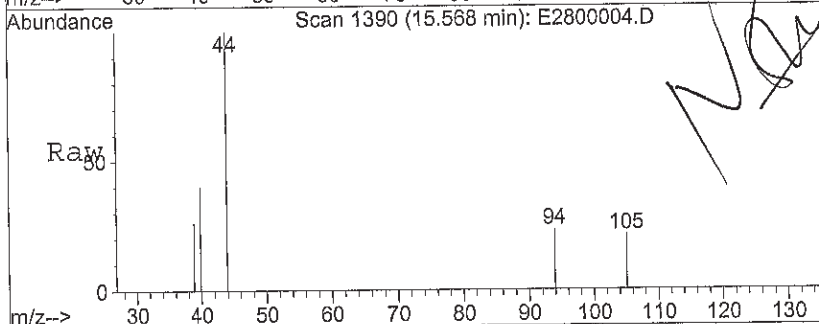


Abundance Ion 91.10 (90.80 to 91.80): E2800004.
 Ion 126.10 (125.80 to 126.80): E2800004.

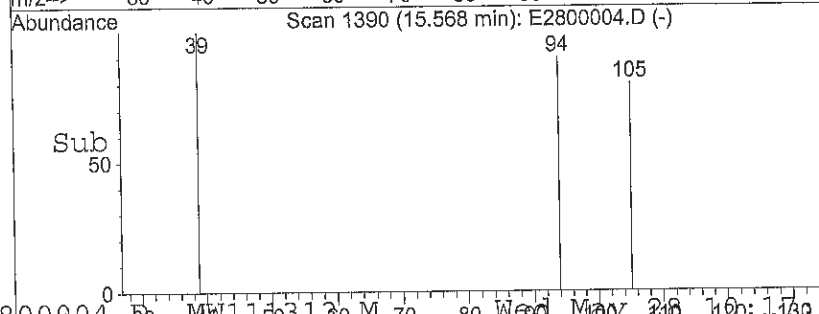
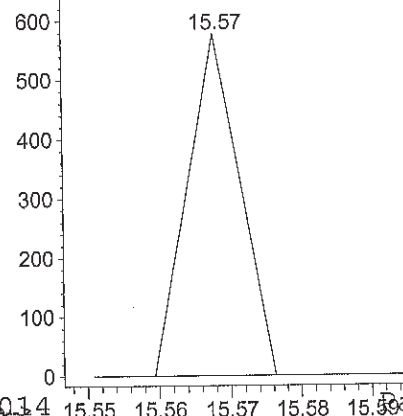


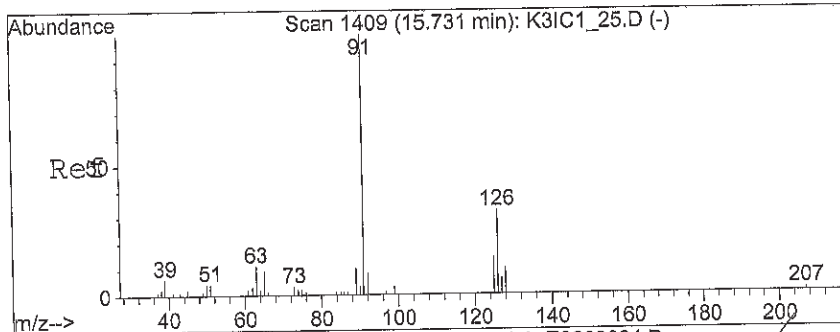
#64
 1,3,5-Trimethylbenzene
 Concen: 0.02 ug/L
 RT: 15.57 min Scan# 1390
 Delta R.T. -0.06 min
 Lab File: E2800004.D
 Acq: 28 May 2014 9:49 am

Tgt Ion: 105 Resp: 292
 Ion Ratio Lower Upper
 105 100
 120 0.0 36.4 54.6#



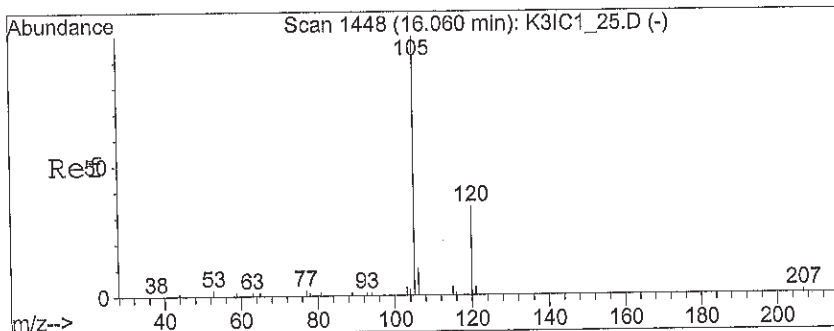
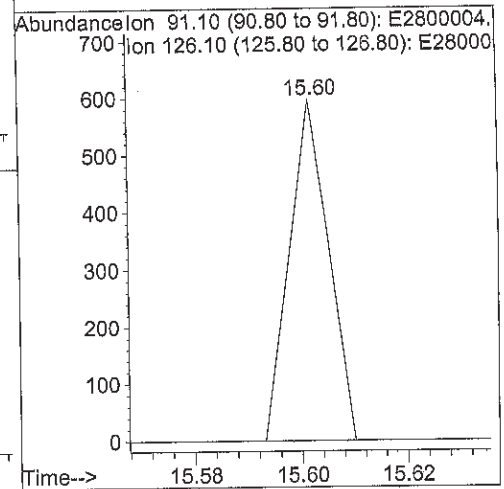
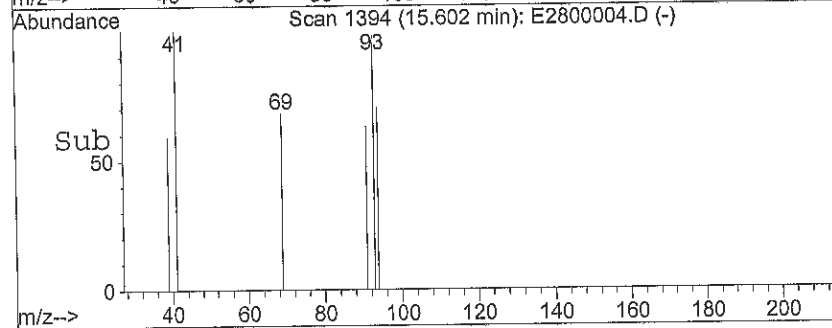
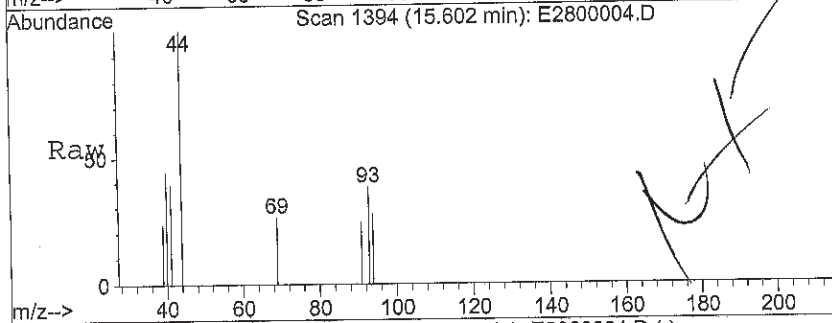
Abundance Ion 105.10 (104.80 to 105.80): E2800004.
 Ion 120.15 (119.85 to 120.85): E2800004.





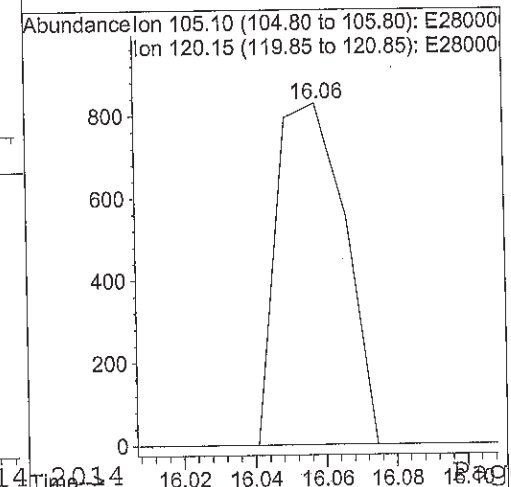
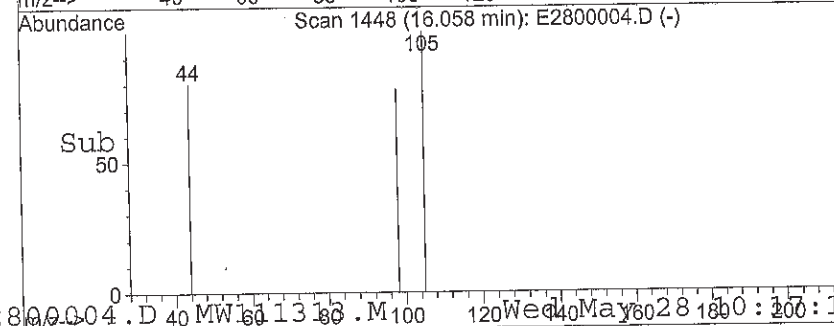
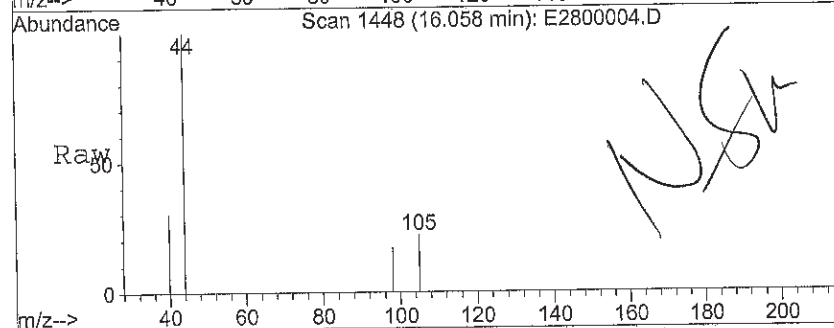
#65
4-Chlorotoluene
Concen: 0.02 ug/L
RT: 15.60 min Scan# 1394
Delta R.T. -0.13 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

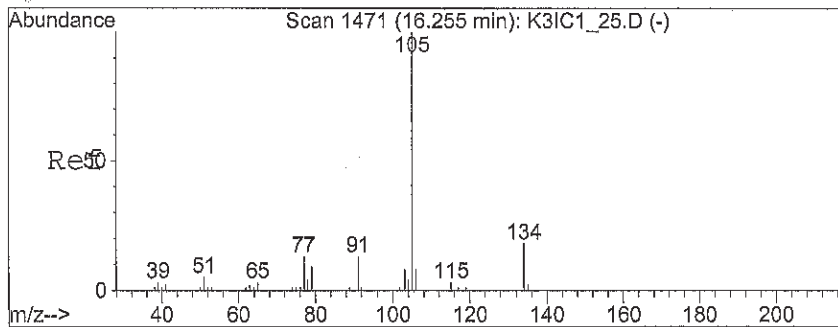
Tgt Ion: 91 Resp: 302
Ion Ratio Lower Upper
91 100
126 0.0 24.6 36.8#



#67
1,2,4-Trimethylbenzene
Concen: 0.06 ug/L
RT: 16.06 min Scan# 1448
Delta R.T. -0.00 min
Lab File: E2800004.D
Acq: 28 May 2014 9:49 am

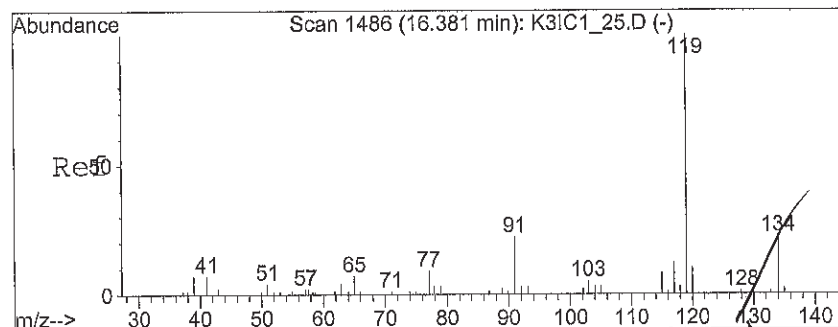
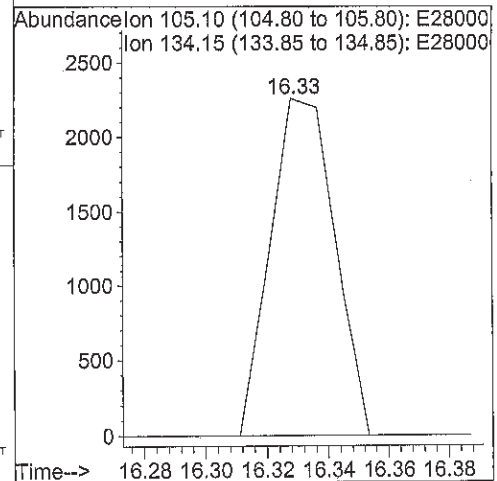
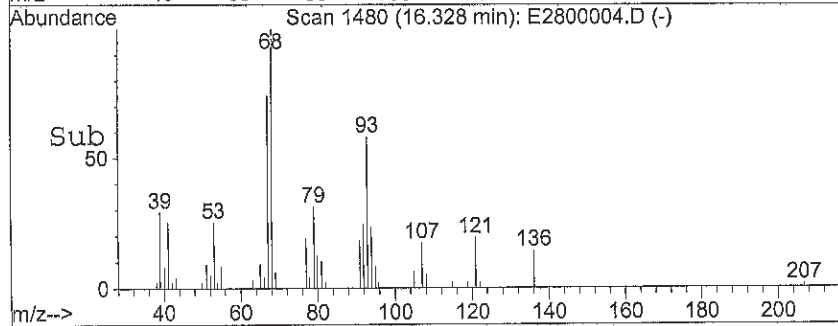
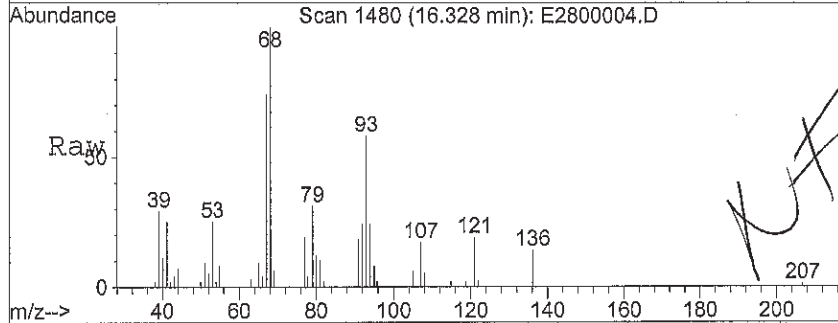
Tgt Ion: 105 Resp: 1104
Ion Ratio Lower Upper
105 100
120 0.0 33.8 50.8#





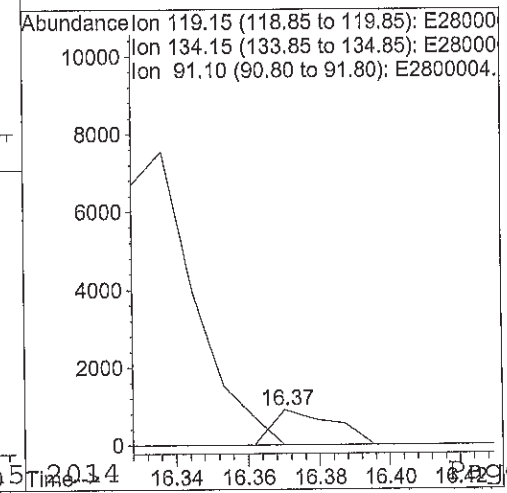
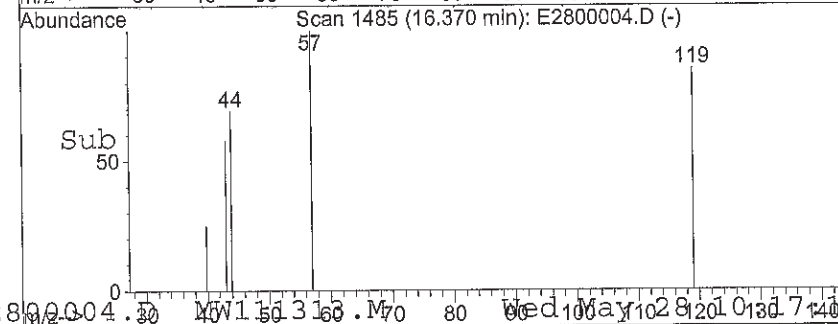
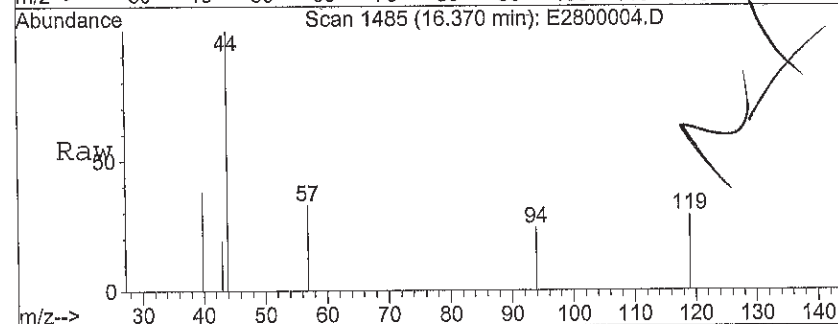
#68
 sec-Butylbenzene
 Concen: 0.15 ug/L
 RT: 16.33 min Scan# 1480
 Delta R.T. 0.07 min
 Lab File: E2800004.D
 Acq: 28 May 2014 9:49 am

Tgt Ion:105 Resp: 3272
 Ion Ratio Lower Upper
 105 100
 134 0.0 13.0 19.6#



#69
 p-Isopropyltoluene
 Concen: 0.06 ug/L
 RT: 16.37 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: E2800004.D
 Acq: 28 May 2014 9:49 am

Tgt Ion:119 Resp: 1069
 Ion Ratio Lower Upper
 119 100
 134 0.0 17.4 26.2#
 91 0.0 19.6 29.4#



Data File : C:\HPCHEM\1\DATA\052814L3\E2800004.D

Vial: 3

Acq On : 28 May 2014 9:49 am

Operator: DN

Sample : 3E42801-03

Inst : GC/MS Ins

Misc : 100cc SVL-815-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 10:17 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1588325	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.91	117	1230604	12.50	ug/L	-0.02
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	662439	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	467461	11.32	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	90.56%
3) Chloroform-d (SU6)	9.18	84	743312	12.54	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	100.32%
4) Methylene Chloride-d2 (SU5)	7.07	86	411111	11.87	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	94.96%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	447278	15.84	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	126.72%#
6) Benzene-d6 (SU7)	9.93	84	1392764	11.17	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	89.36%
8) Toluene-d8 (SU3)	12.21	98	1406762	12.05	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.40%
9) 4-Bromofluorobenzene (SU4)	15.22	95	693511	14.39	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	115.12%

Target Compounds

Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800004.D

Vial: 3

Acq On : 28 May 2014 9:49 am

Operator: DN

Sample : 3E42801-03

Inst : GC/MS Ins

Misc : 100cc SVL-815-SA5D-SV-5.0-6.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 10:17 19114

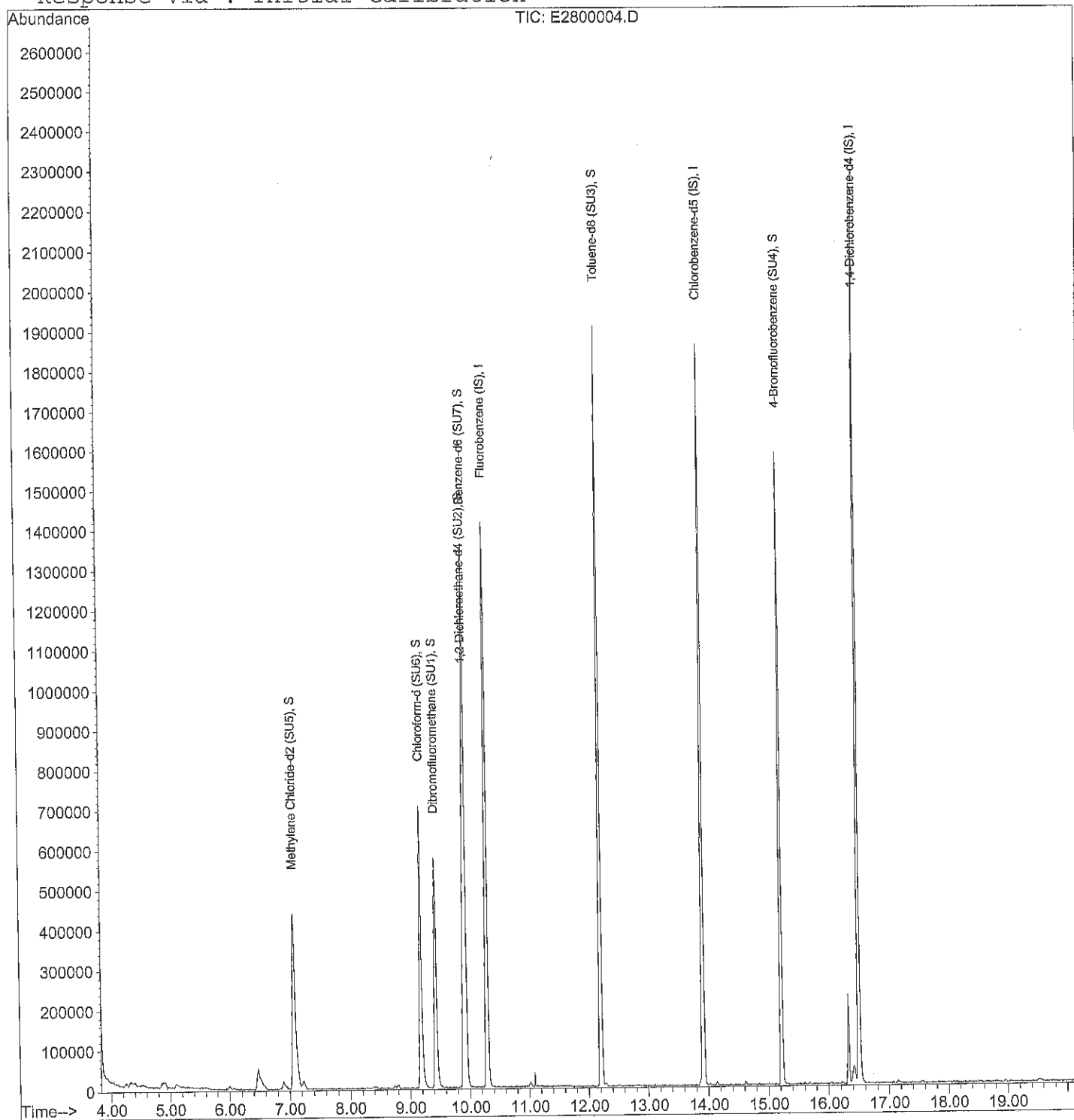
Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052814L3\E2800005.D

Vial: 4

Acq On : 28 May 2014 10:19 am

Operator: DN

Sample : 3E42801-04

Inst : GC/MS Ins

Misc : 100cc SVL-515-SA5D-SV-12.5-13.8

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 10:42 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1591812	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1232045	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	673028	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	445744	11.23	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	89.84%
28) 1,2-Dichloroethane-d4 (SU2)	9.89	65	442549	11.73	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	93.84%
39) Toluene-d8 (SU3)	12.21	98	1397374	12.16	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	97.28%
58) 4-Bromofluorobenzene (SU4)	15.22	95	685176	13.60	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	108.80%

Target Compounds

					Qvalue	
4) Chloromethane	4.40	50	5074	0.68	ug/L	#SM 41
6) Bromomethane	5.11	96	6639	2.01	ug/L	# 4
7) Chloroethane	5.32	64	880	1.35	ug/L	90
11) Acetone	6.47	58	6122	4.97	ug/L	98
12) (IPA) Leak Check Compound	6.47	45	125299	655.06	ug/L	#SM 84
13) Carbon disulfide	6.85	76	6994	0.53	ug/L	# 76
14) Methylene Chloride	7.07	84	6664	1.52	ug/L	# 1
15) (TBA) tert-Butanol	6.93	59	607	2.24	ug/L	# 77
24) Chloroform	9.20	83	3421	0.41	ug/L	#SM 57
25) (ETBE) 2-ethoxy 2-methyl p	8.36	59	276	0.02	ug/L	# 44
29) 1,1-Dichloropropene	9.93	75	365	0.06	ug/L	# 1
31) Benzene	9.97	78	2221	0.15	ug/L	# 57
32) 1,2-Dichloroethane	9.92	62	6578	1.24	ug/L	# 1
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	7946	3.23	ug/L	# 100
41) Toluene	12.28	91	46319	2.76	ug/L	0.052 96
46) 2-Hexanone	12.92	43	1053	0.39	ug/L	# 37
51) Ethylbenzene	14.02	91	8269	0.43	ug/L	0.0086 96
52) m,p-Xylenes	14.14	106	9659	1.42	ug/L	0.0284 85
53) o-Xylene	14.61	106	2154	0.32	ug/L	0.0064 8
54) Styrene	14.62	104	1747	-0.69	ug/L	#SM 68
56) Isopropylbenzene	15.00	105	345	0.02	ug/L	# 1
62) n-Propylbenzene	15.46	91	672	0.02	ug/L	# 56

(#)= qualifier out of range (m) = manual integration

E2800005.D MW111313.M

Wed May 28 10:42:17 2014

Page 1

Data File : C:\HPCHEM\1\DATA\052814L3\E2800005.D

Vial: 4

Acq On : 28 May 2014 10:19 am

Operator: DN

Sample : 3E42801-04

Inst : GC/MS Ins

Misc : 100cc SVL-515-SA5D-SV-12.5-13.8

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 10:42 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63) 2-Chlorotoluene	15.60	91	254	0.02	ug/L #1	45
64) 1,3,5-Trimethylbenzene	15.63	105	765	0.05	ug/L #	31
65) 4-Chlorotoluene	15.60	91	254	0.02	ug/L #	44
67) 1,2,4-Trimethylbenzene	16.06	105	1584	0.09	ug/L #0.0018	62
68) sec-Butylbenzene	16.33	105	4882	0.22	ug/L #8m	62
69) p-Isopropyltoluene	16.38	119	1255	0.07	ug/L #	52

(#) = qualifier out of range (m) = manual integration

E2800005.D MW111313.M

Wed May 28 10:42:17 2014

Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800005.D

Vial: 4

Acq On : 28 May 2014 10:19 am

Operator: DN

Sample : 3E42801-04

Inst : GC/MS Ins

Misc : 100cc SVL-515-SA5D-SV-12.5-13.8

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 10:42 19114

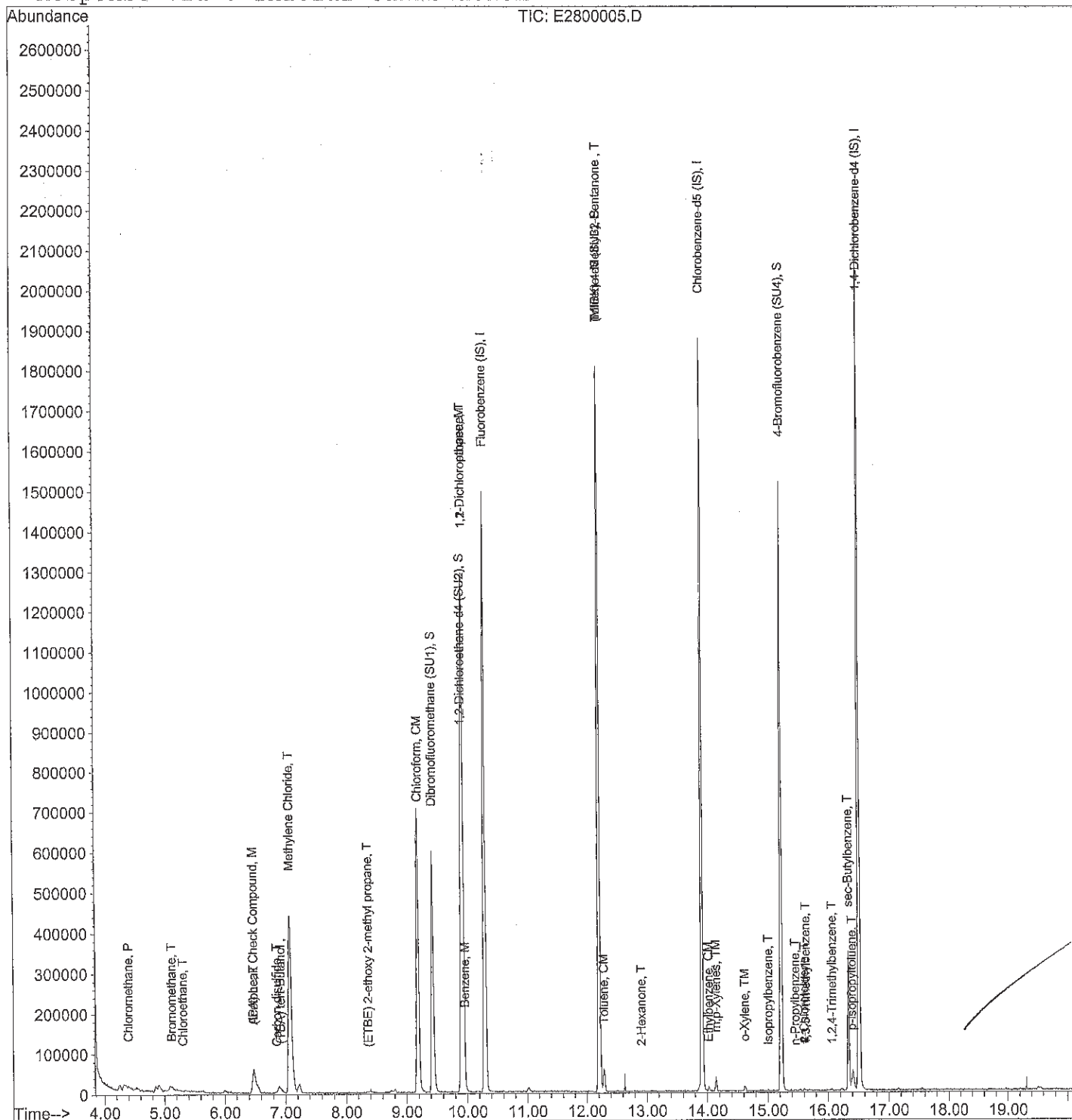
Quant Results File: MW111313.RES

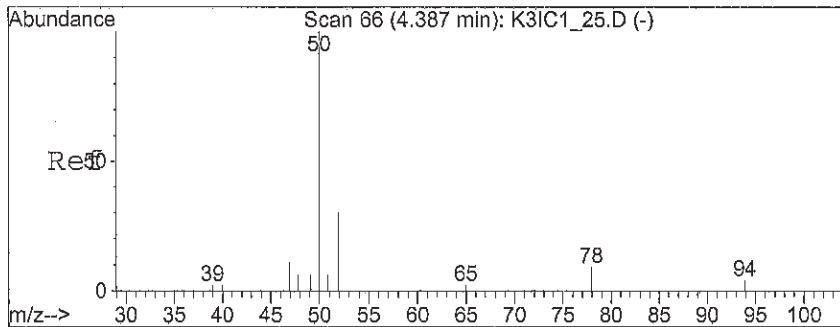
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

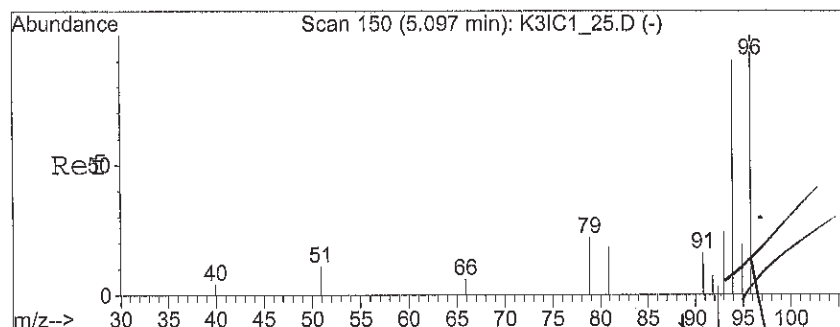
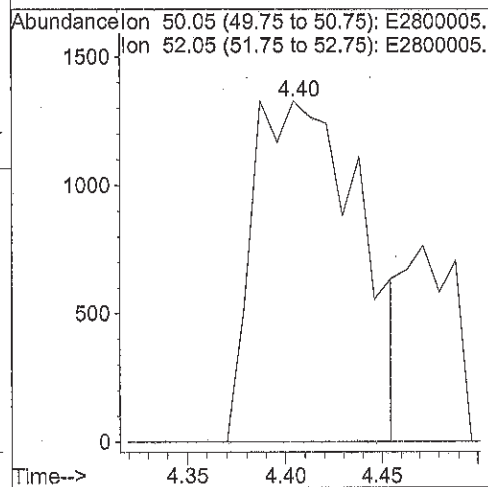
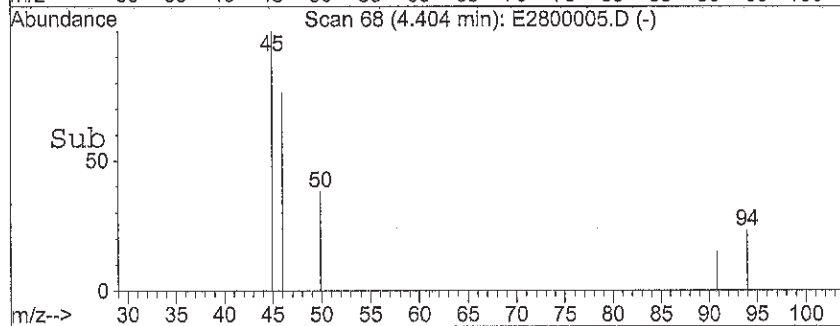
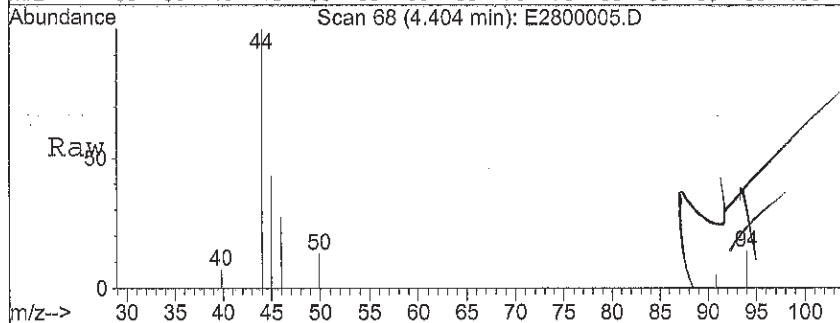
Response via : Initial Calibration





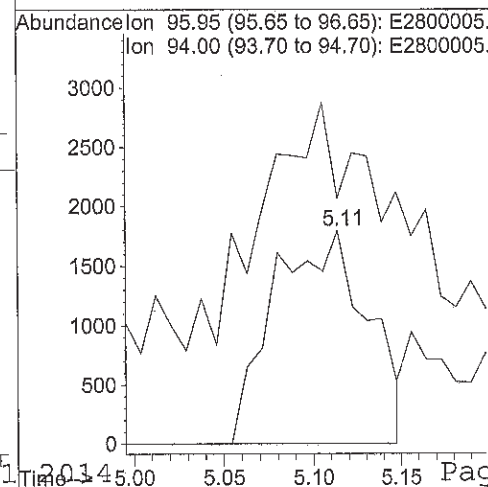
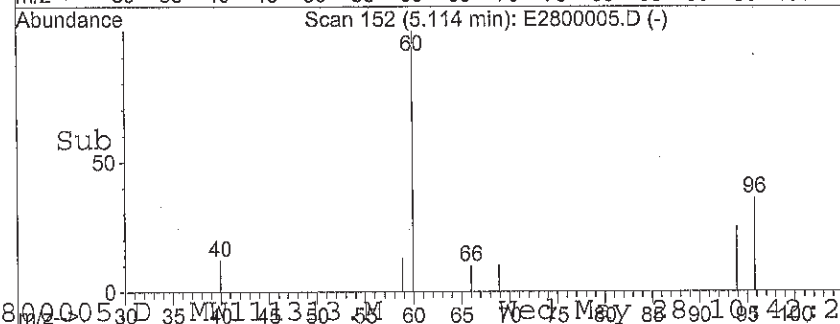
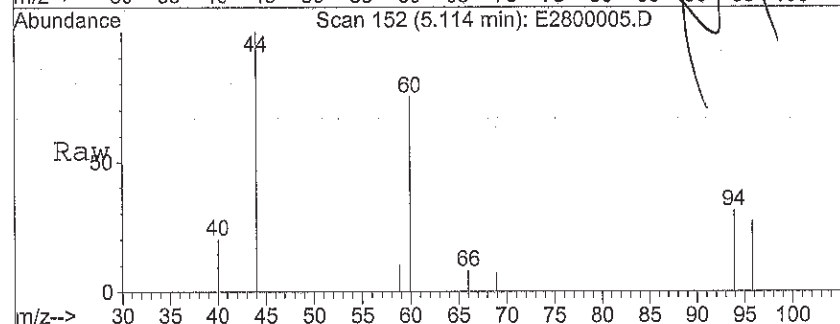
#4
Chloromethane
Concen: 0.68 ug/L
RT: 4.40 min Scan# 68
Delta R.T. 0.02 min
Lab File: E2800005.D
Acq: 28 May 2014 10:19 am

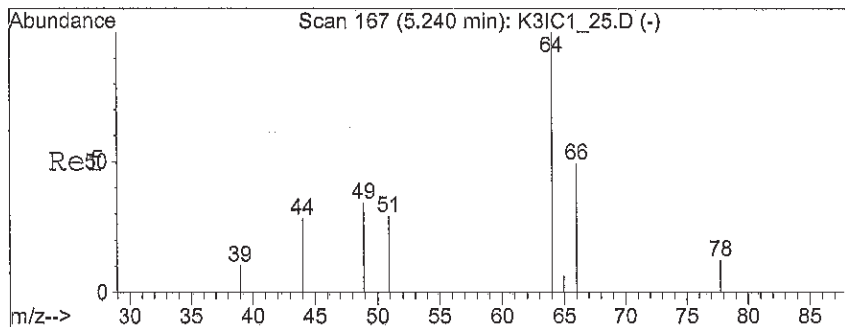
Tgt Ion: 50 Resp: 5074
Ion Ratio Lower Upper
50 100
52 0.0 26.9 40.3#



#6
Bromomethane
Concen: 2.01 ug/L
RT: 5.11 min Scan# 152
Delta R.T. 0.02 min
Lab File: E2800005.D
Acq: 28 May 2014 10:19 am

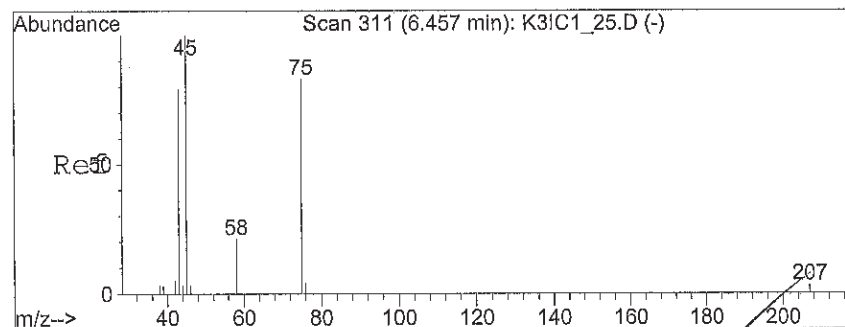
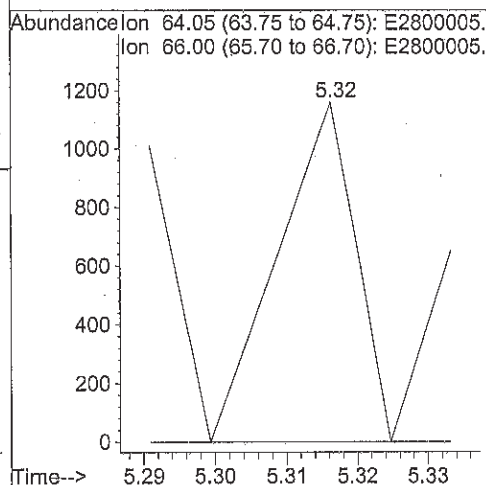
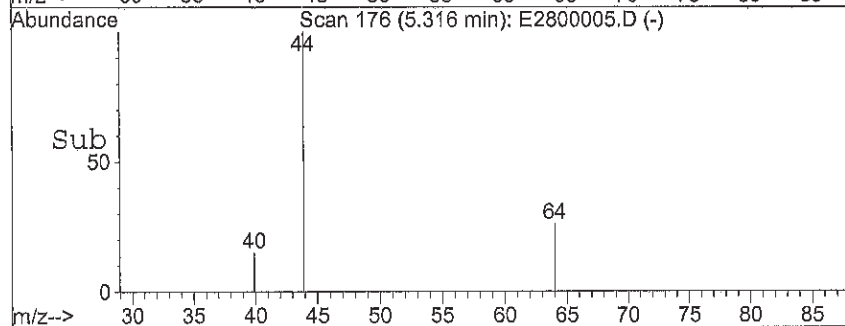
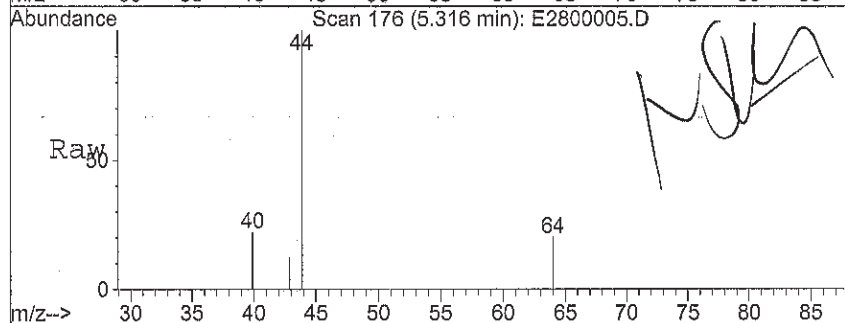
Tgt Ion: 96 Resp: 6639
Ion Ratio Lower Upper
96 100
94 235.7 101.0 151.4#





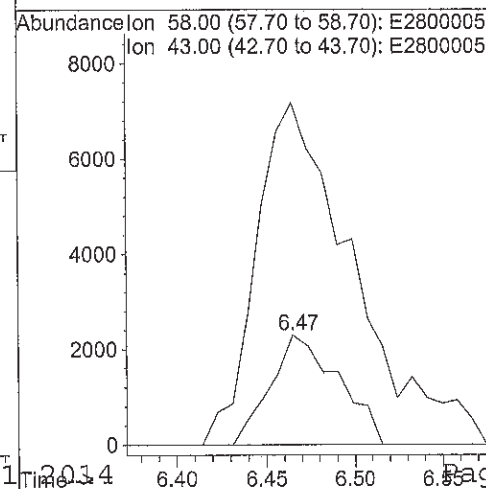
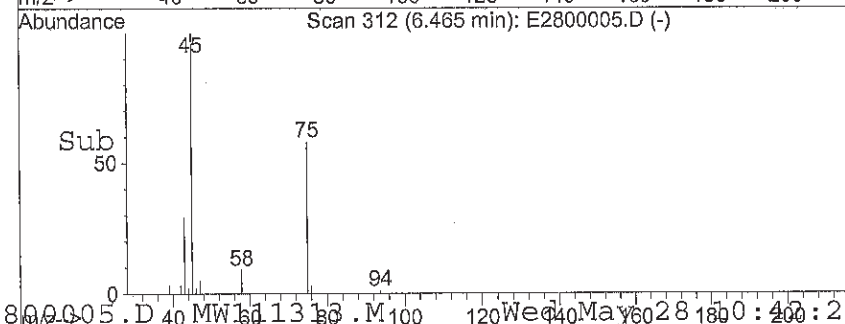
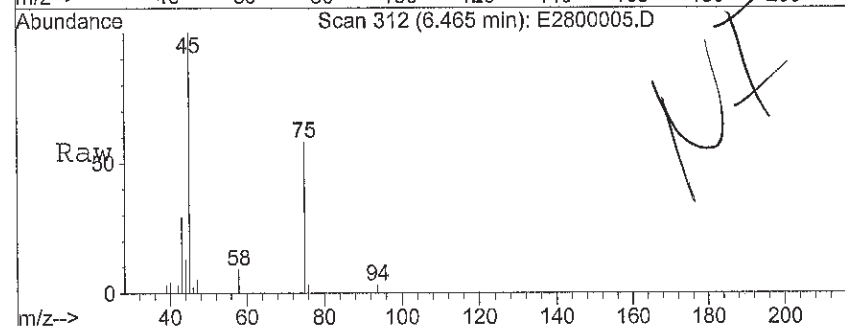
#7
Chloroethane
Concen: 1.35 ug/L
RT: 5.32 min Scan# 176
Delta R.T. 0.08 min
Lab File: E2800005.D
Acq: 28 May 2014 10:19 am

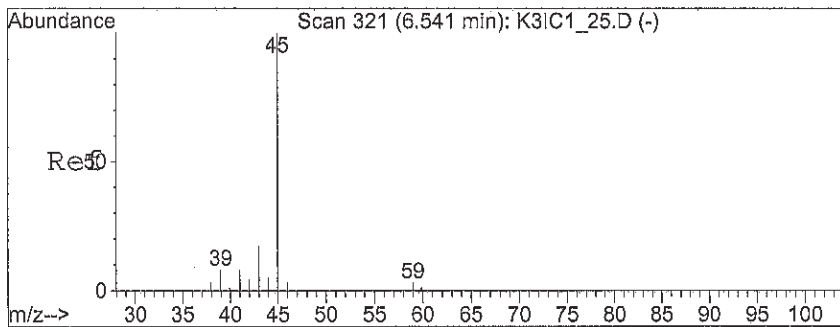
Tgt Ion: 64 Resp: 880
Ion Ratio Lower Upper
64 100
66 37.5 35.4 53.0



#11
Acetone
Concen: 4.97 ug/L
RT: 6.47 min Scan# 312
Delta R.T. 0.01 min
Lab File: E2800005.D
Acq: 28 May 2014 10:19 am

Tgt Ion: 58 Resp: 6122
Ion Ratio Lower Upper
58 100
43 446.4 360.9 541.3

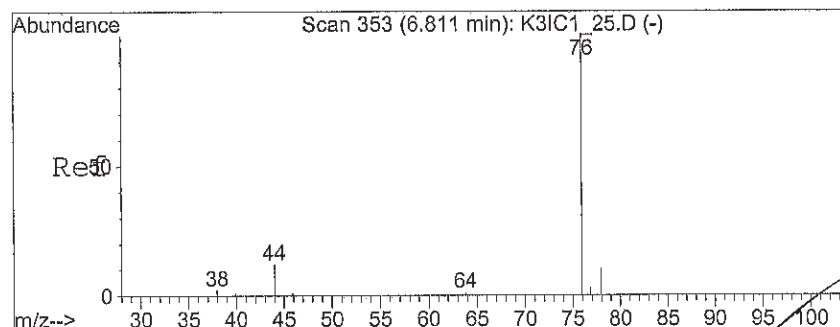
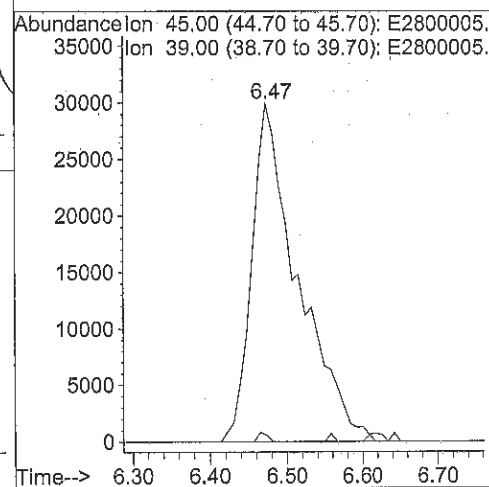
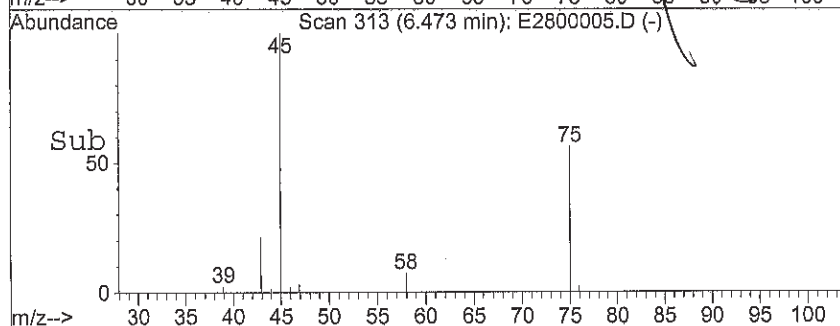
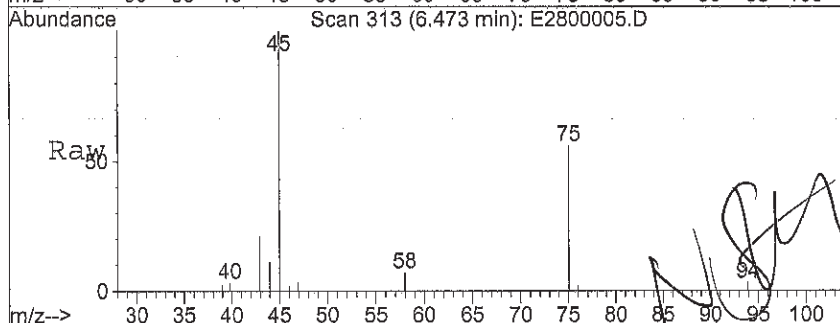




#12

(IPA) Leak Check Compound
 Concen: 655.06 ug/L
 RT: 6.47 min Scan# 313
 Delta R.T. -0.07 min
 Lab File: E2800005.D
 Acq: 28 May 2014 10:19 am

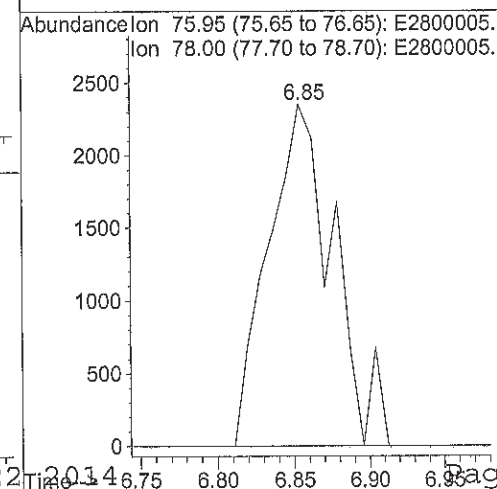
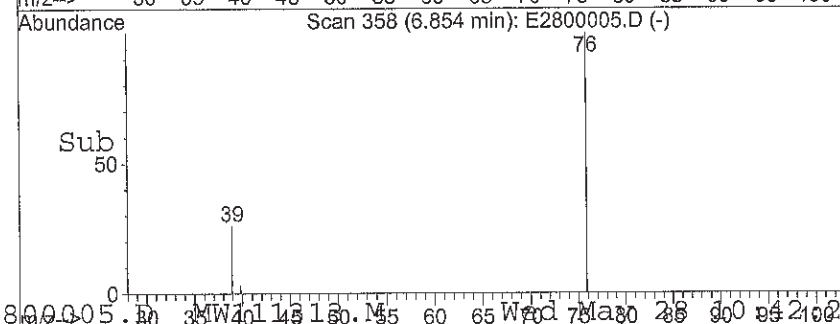
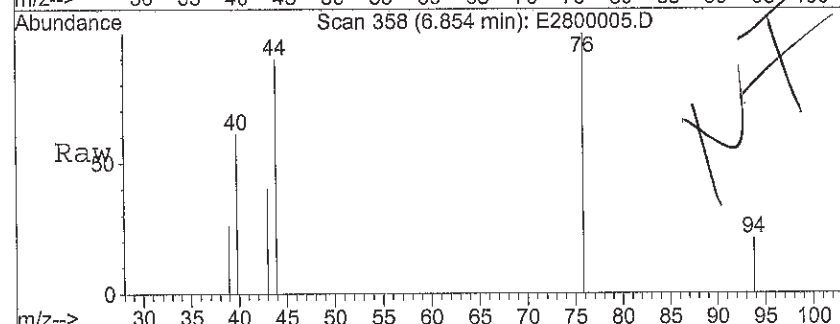
Tgt Ion: 45 Resp: 125299
 Ion Ratio Lower Upper
 45 100
 39 0.6 4.9 7.3#

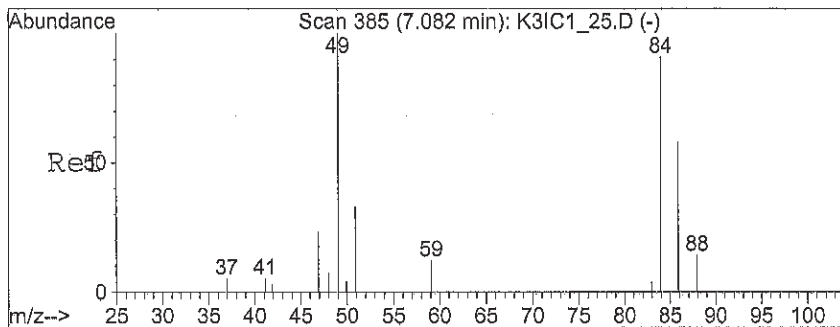


#13

Carbon disulfide
 Concen: 0.53 ug/L
 RT: 6.85 min Scan# 358
 Delta R.T. 0.04 min
 Lab File: E2800005.D
 Acq: 28 May 2014 10:19 am

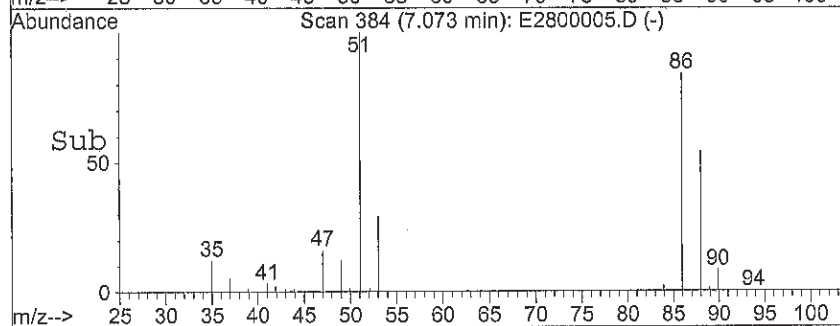
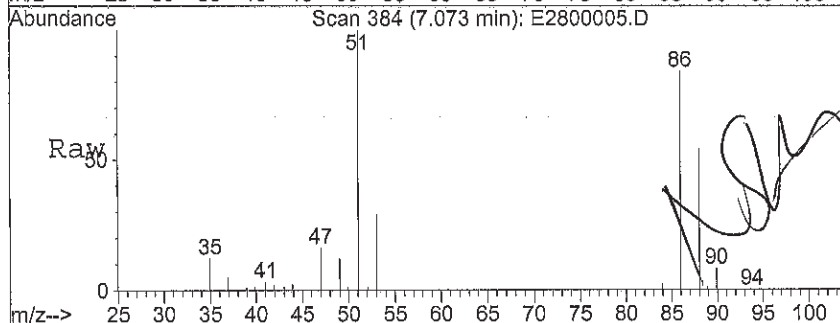
Tgt Ion: 76 Resp: 6994
 Ion Ratio Lower Upper
 76 100
 78 0.0 7.0 10.4#



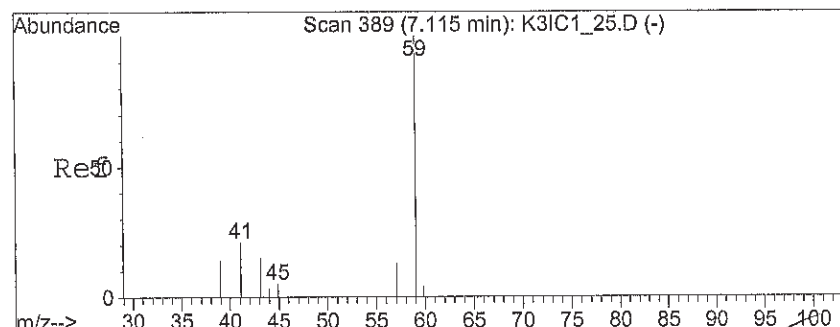
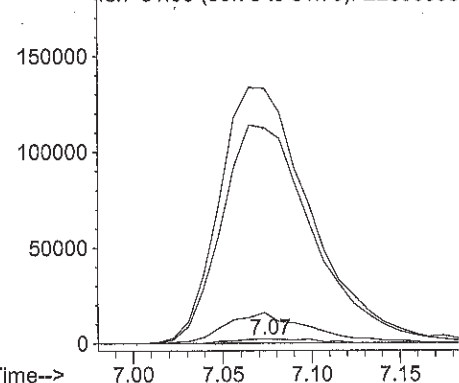


#14
Methylene Chloride
Concen: 1.52 ug/L
RT: 7.07 min Scan# 384
Delta R.T. -0.01 min
Lab File: E2800005.D
Acq: 28 May 2014 10:19 am

Tgt Ion: 84 Resp: 6664
Ion Ratio Lower Upper
84 100
49 779.7 89.8 134.6#
86 6152.1 51.1 76.7#
51 7259.6 28.5 42.7#

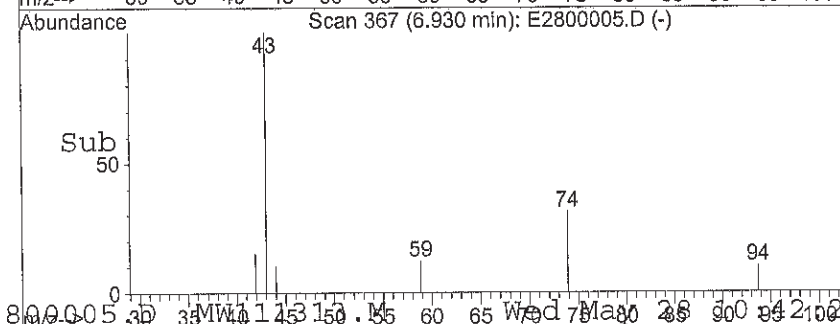
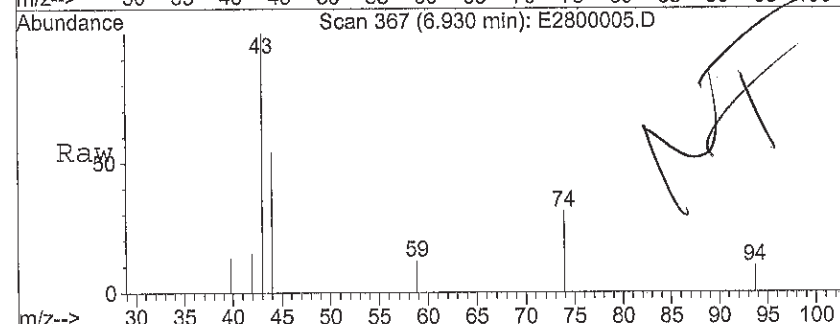


Abundance Ion 83.95 (83.65 to 84.65): E2800005.
Ion 48.95 (48.65 to 49.65): E2800005.
Ion 85.95 (85.65 to 86.65): E2800005.
Ion 51.05 (50.75 to 51.75): E2800005.

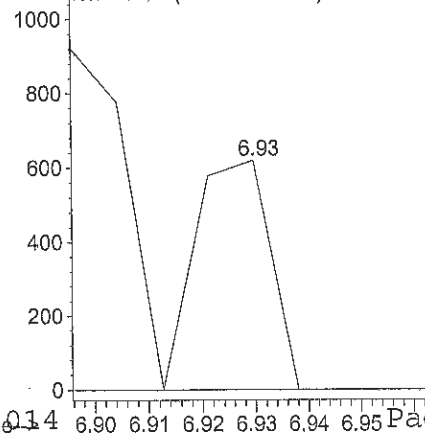


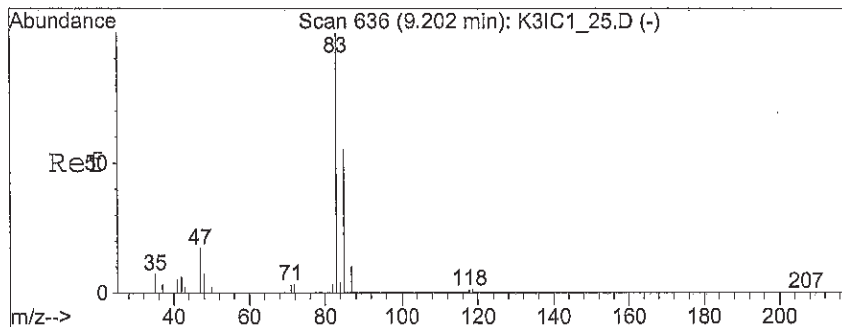
#15
(TBA) tert-Butanol
Concen: 2.24 ug/L
RT: 6.93 min Scan# 367
Delta R.T. -0.19 min
Lab File: E2800005.D
Acq: 28 May 2014 10:19 am

Tgt Ion: 59 Resp: 607
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#



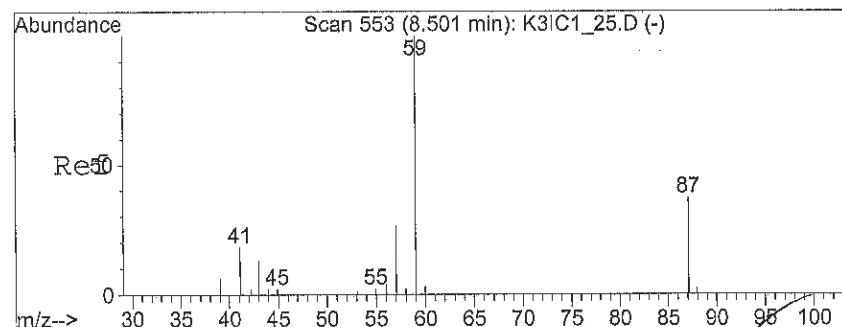
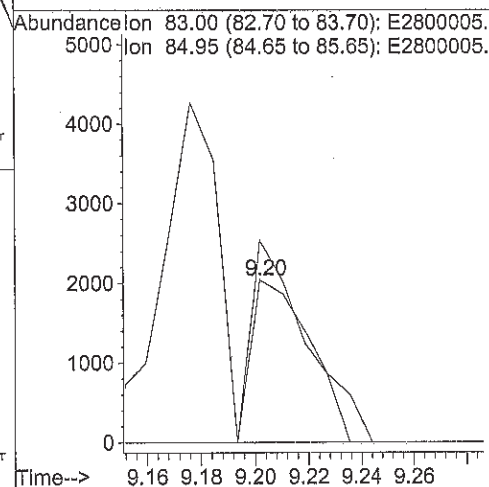
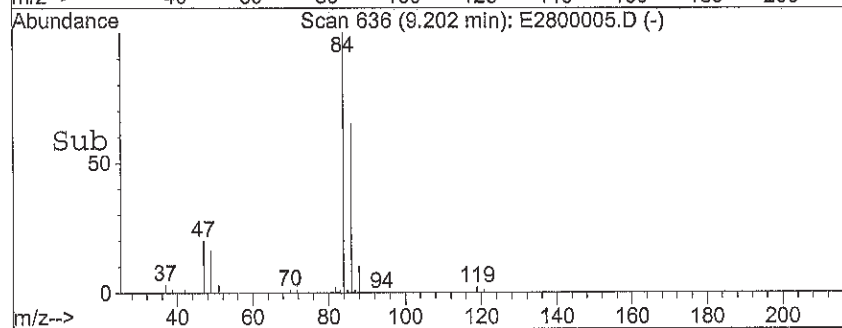
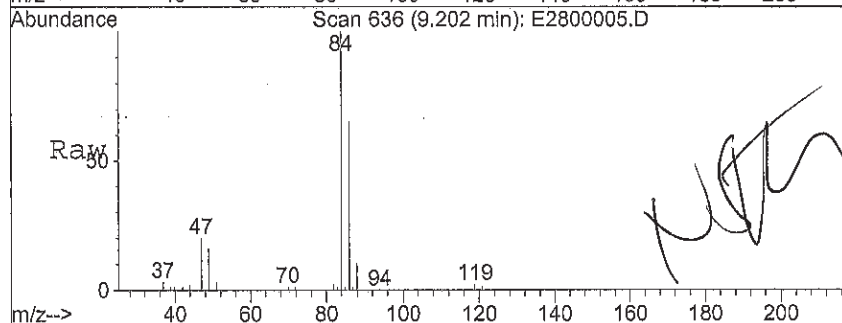
Abundance Ion 59.00 (58.70 to 59.70): E2800005.
Ion 57.00 (56.70 to 57.70): E2800005.





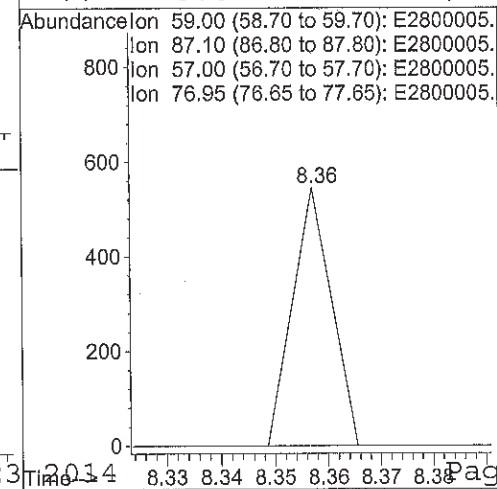
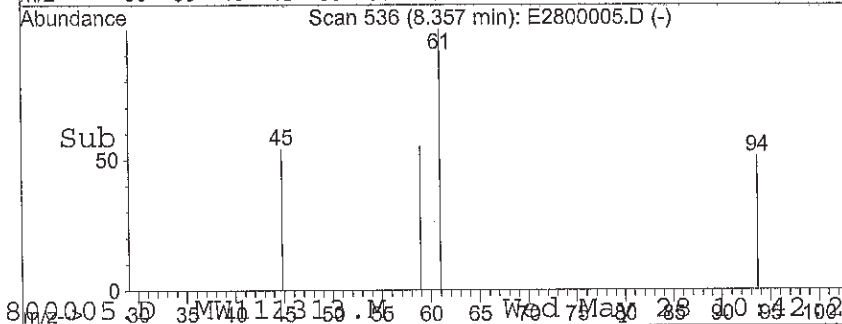
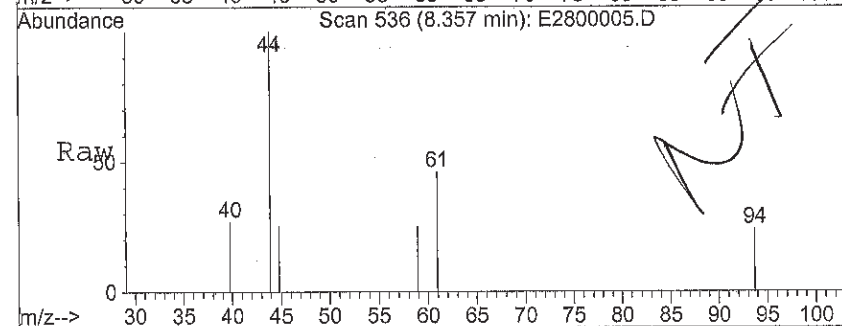
#24
Chloroform
Concen: 0.41 ug/L
RT: 9.20 min Scan# 636
Delta R.T. -0.00 min
Lab File: E2800005.D
Acq: 28 May 2014 10:19 am

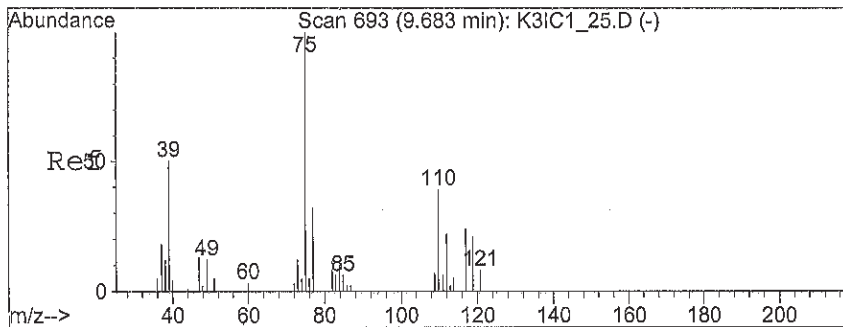
Tgt Ion: 83 Resp: 3421
Ion Ratio Lower Upper
83 100
85 98.5 51.8 77.6#



#25
(ETBE) 2-ethoxy 2-methyl propan
Concen: 0.02 ug/L
RT: 8.36 min Scan# 536
Delta R.T. -0.14 min
Lab File: E2800005.D
Acq: 28 May 2014 10:19 am

Tgt Ion: 59 Resp: 276
Ion Ratio Lower Upper
59 100
87 0.0 27.8 41.8#
57 0.0 19.8 29.6#
77 0.0 0.0 0.0





#29

1,1-Dichloropropene

Concen: 0.06 ug/L

RT: 9.93 min Scan# 722

Delta R.T. 0.24 min

Lab File: E2800005.D

Acq: 28 May 2014 10:19 am

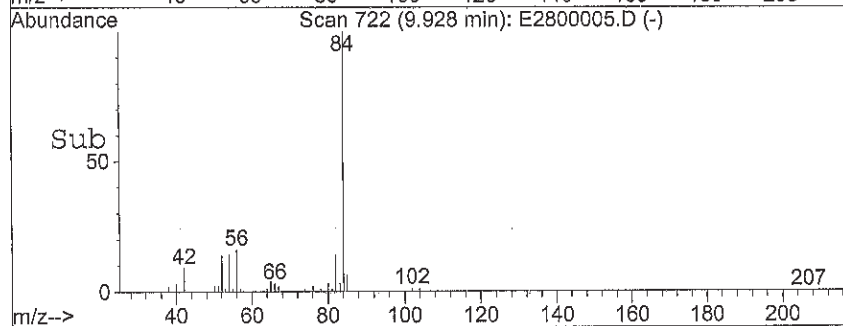
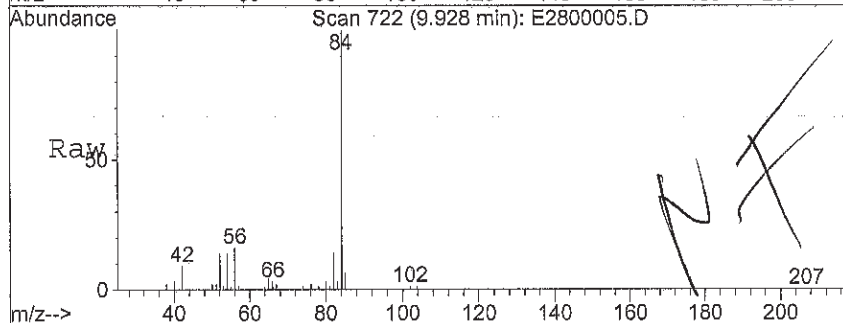
Tgt Ion: 75 Resp: 365

Ion Ratio Lower Upper

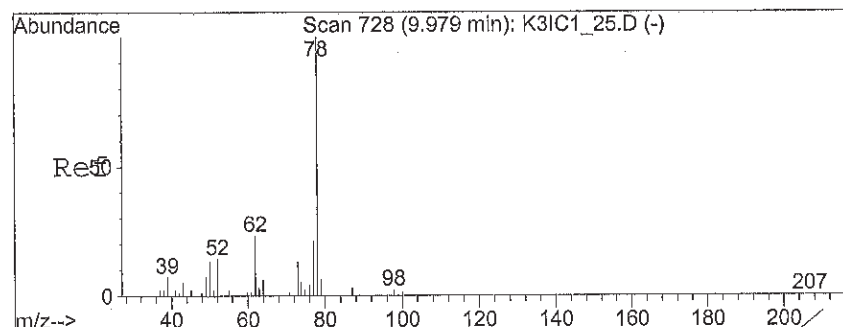
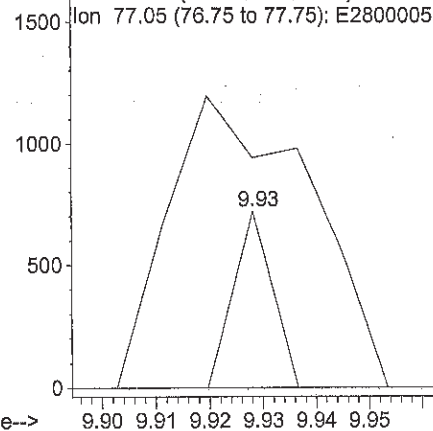
75 100

110 0.0 29.0 43.6#

77 601.1 25.0 37.4#



Abundance Ion 75.05 (74.75 to 75.75): E2800005.
Ion 110.05 (109.75 to 110.75): E2800005.
Ion 77.05 (76.75 to 77.75): E2800005.



#31

Benzene

Concen: 0.15 ug/L

RT: 9.97 min Scan# 727

Delta R.T. -0.01 min

Lab File: E2800005.D

Acq: 28 May 2014 10:19 am

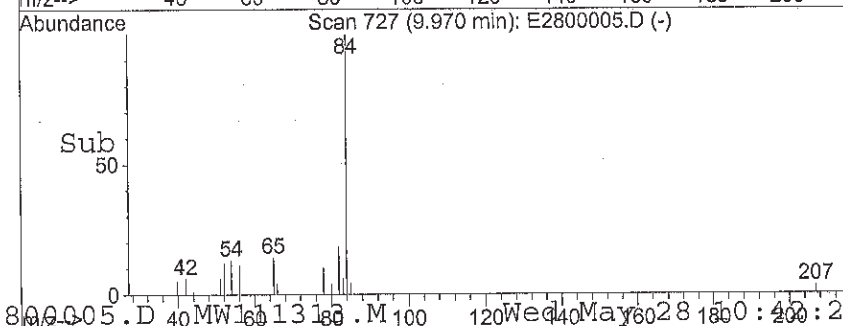
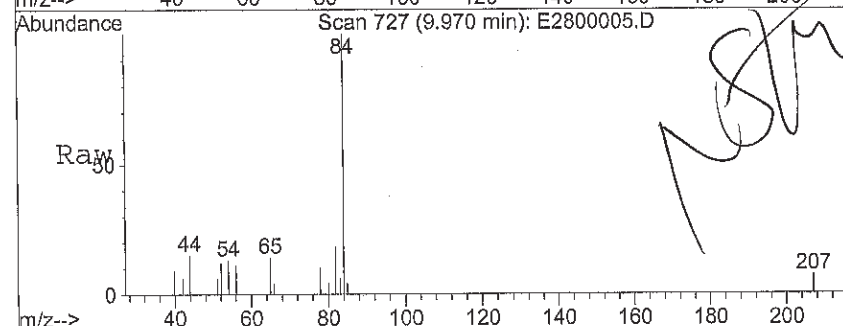
Tgt Ion: 78 Resp: 2221

Ion Ratio Lower Upper

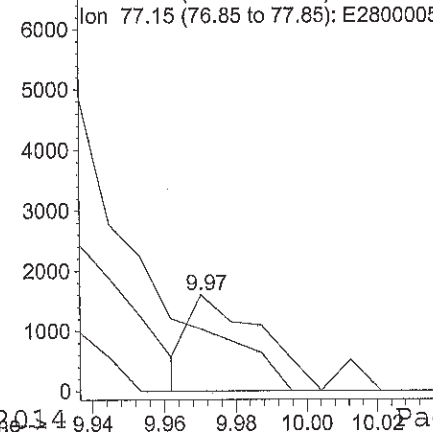
78 100

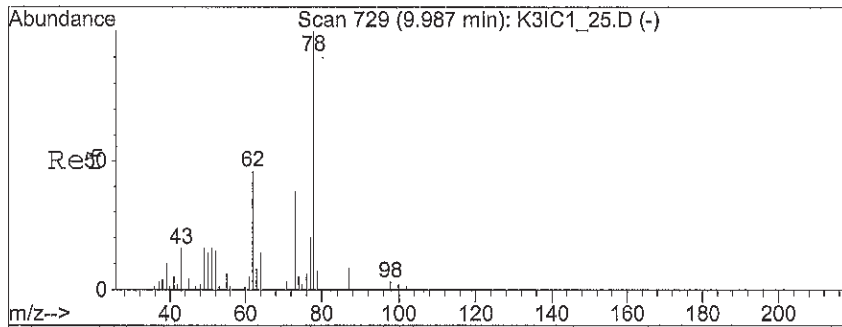
51 0.0 14.2 21.2#

77 0.0 16.6 24.8#

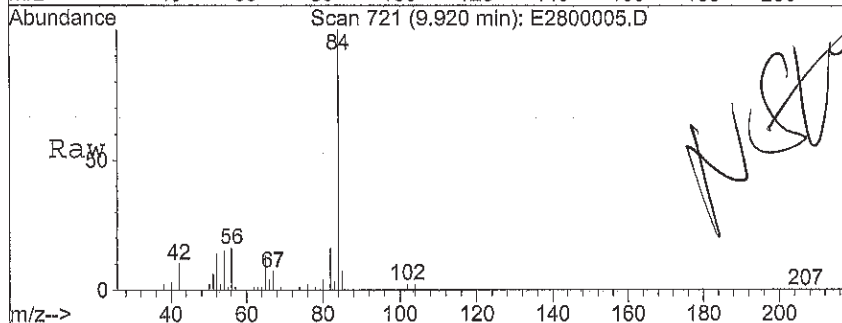


Abundance Ion 78.10 (77.80 to 78.80): E2800005.
Ion 51.05 (50.75 to 51.75): E2800005.
Ion 77.15 (76.85 to 77.85): E2800005.

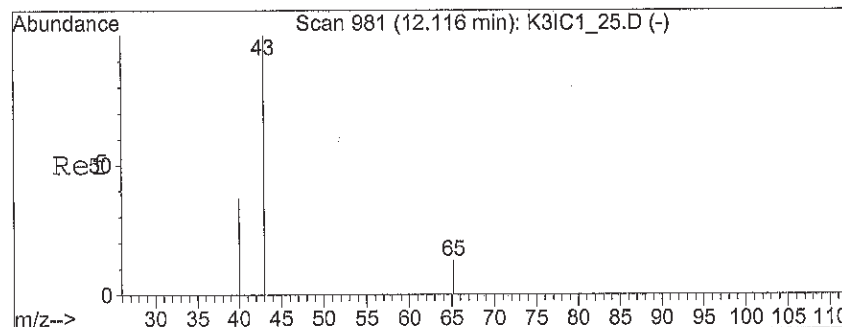
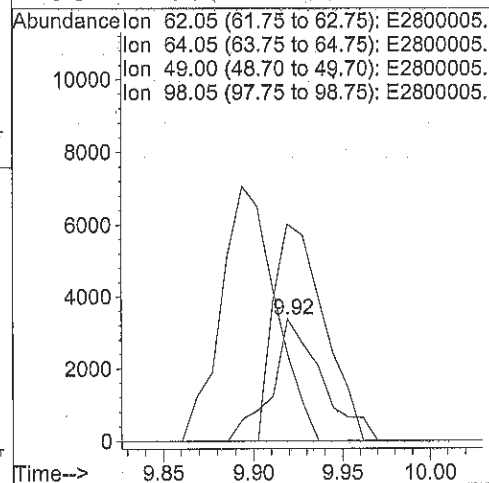
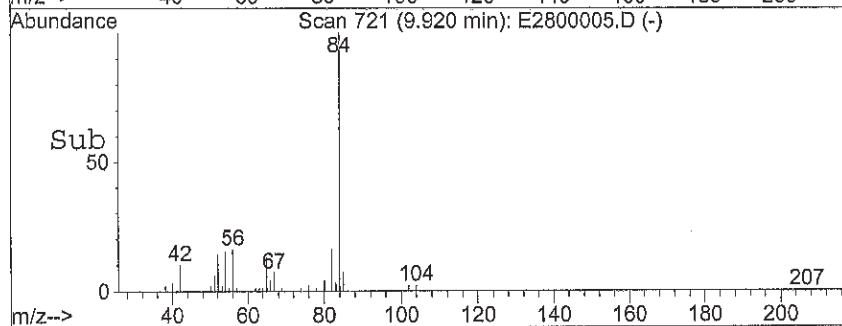




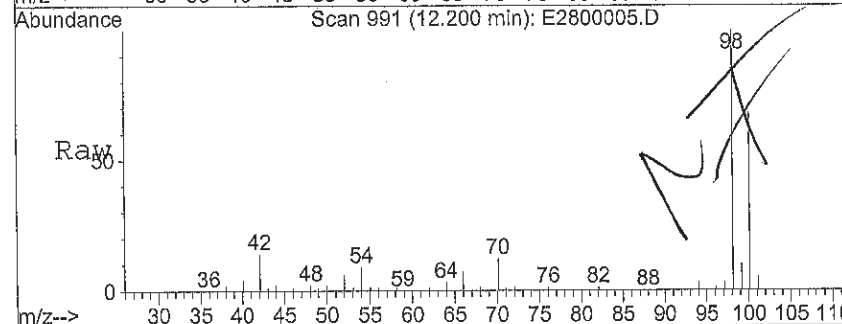
#32
 1,2-Dichloroethane
 Concen: 1.24 ug/L
 RT: 9.92 min Scan# 721
 Delta R.T. -0.07 min
 Lab File: E2800005.D
 Acq: 28 May 2014 10:19 am



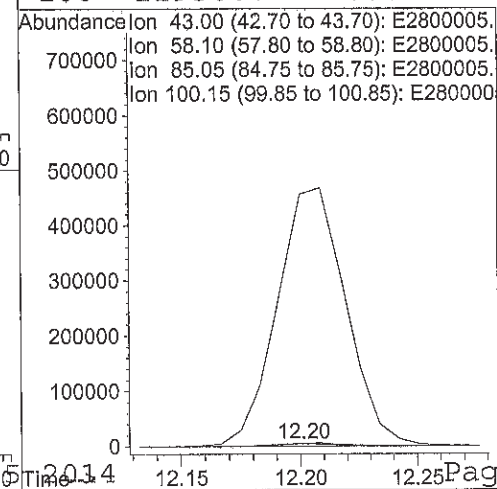
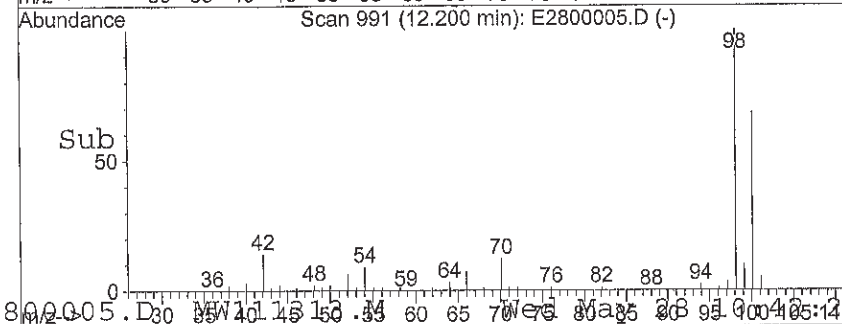
Tgt Ion: 62 Resp: 6578
 Ion Ratio Lower Upper
 62 100
 64 180.8 28.0 42.0#
 49 0.0 28.5 42.7#
 98 0.0 6.2 9.4#

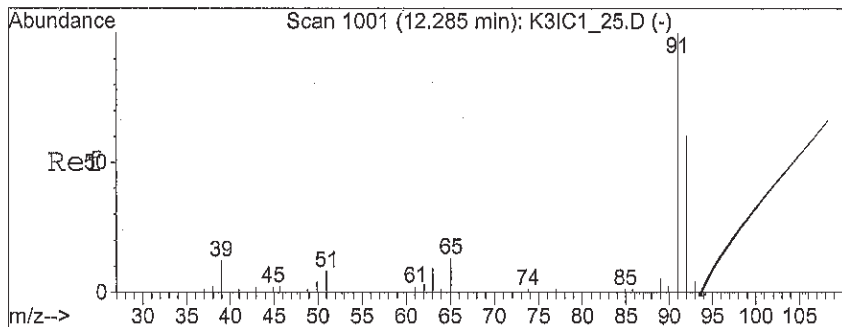


#40
 (MIBK) 4-Methyl-2-Pentanone
 Concen: 3.23 ug/L
 RT: 12.20 min Scan# 991
 Delta R.T. 0.08 min
 Lab File: E2800005.D
 Acq: 28 May 2014 10:19 am



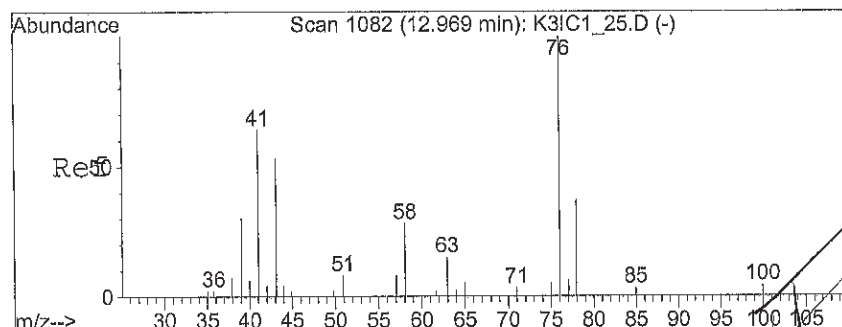
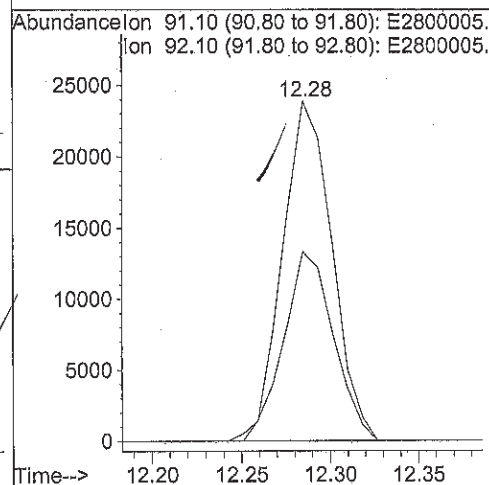
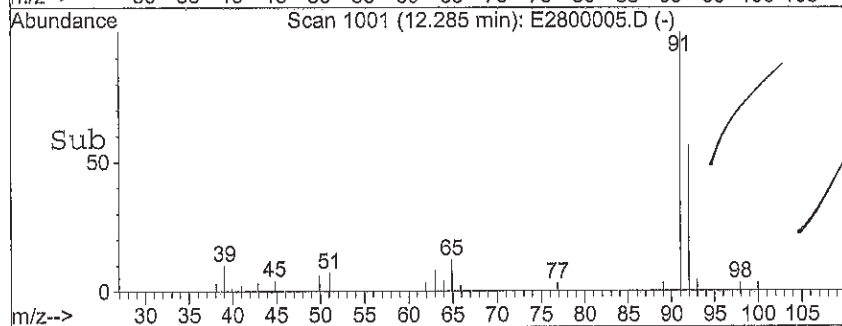
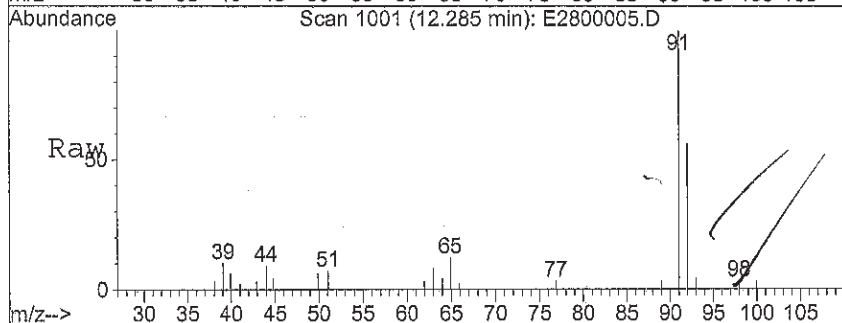
Tgt Ion: 43 Resp: 7946
 Ion Ratio Lower Upper
 43 100
 58 127.9 0.0 0.0#
 85 0.0 0.0 0.0
 100 11930.7 0.0 0.0#





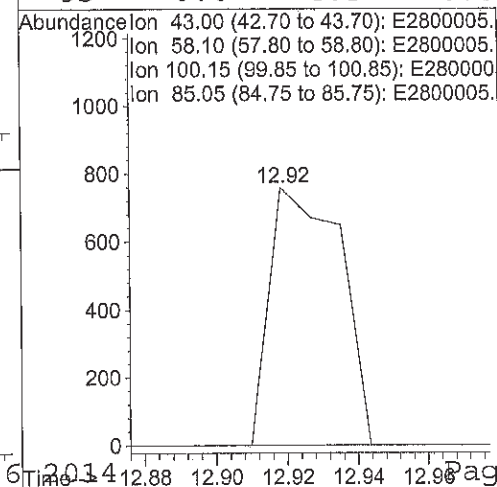
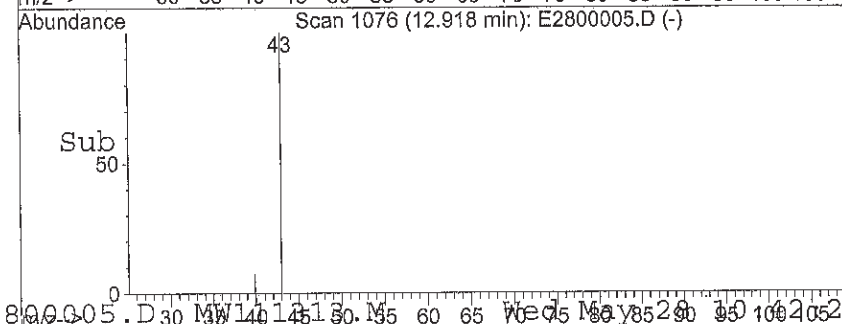
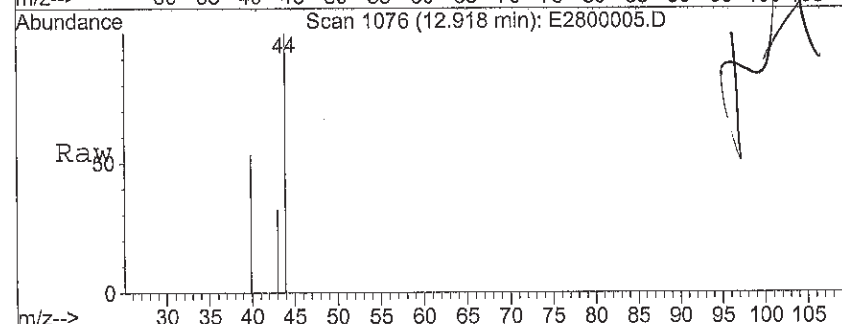
#41
Toluene
Concen: 2.76 ug/L
RT: 12.28 min Scan# 1001
Delta R.T. 0.00 min
Lab File: E2800005.D
Acq: 28 May 2014 10:19 am

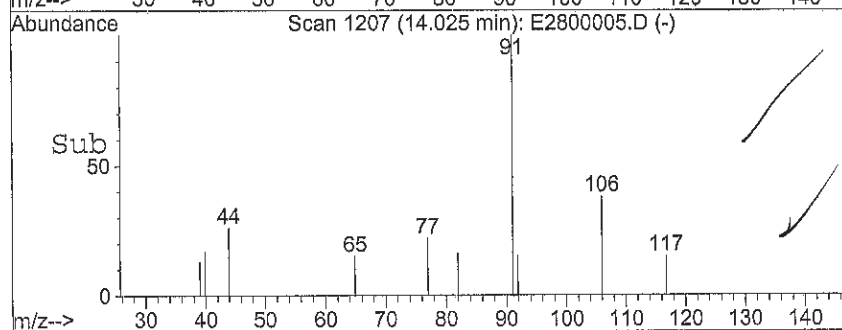
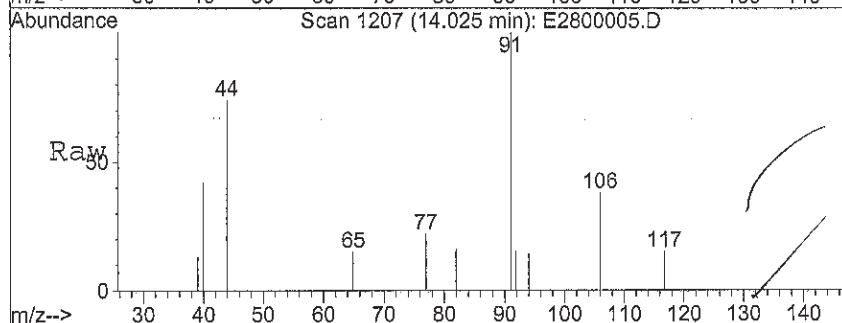
Tgt Ion: 91 Resp: 46319
Ion Ratio Lower Upper
91 100
92 56.2 47.4 71.0



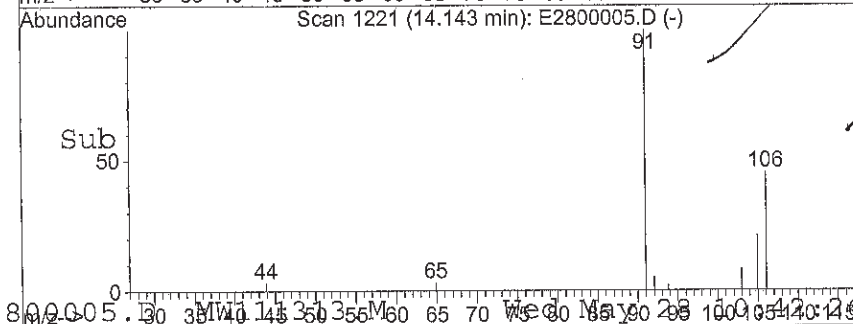
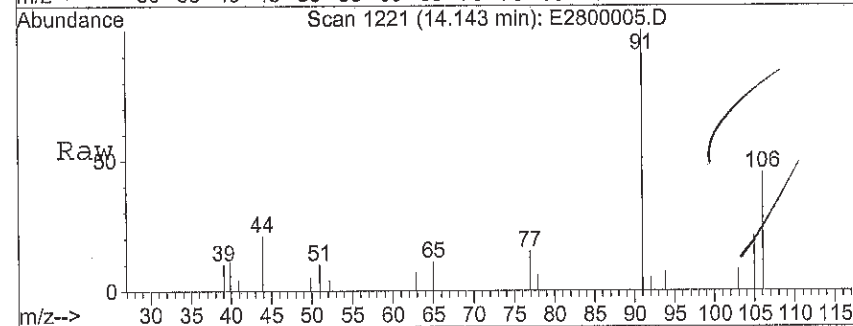
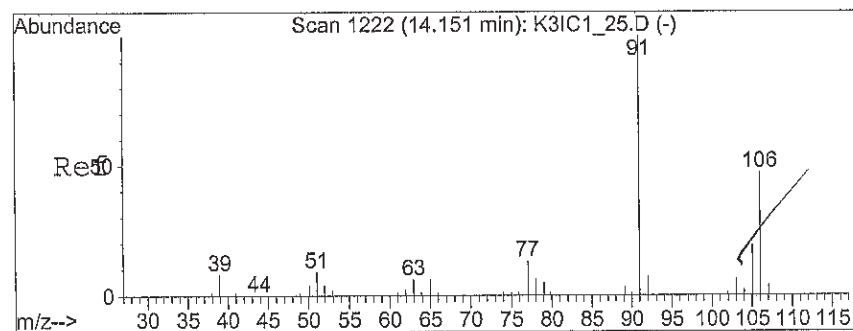
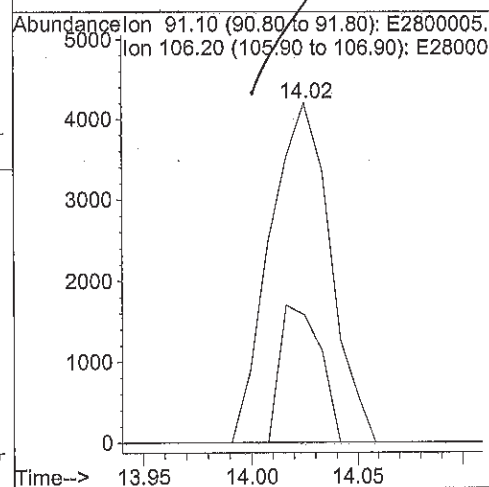
#46
2-Hexanone
Concen: 0.39 ug/L
RT: 12.92 min Scan# 1076
Delta R.T. -0.05 min
Lab File: E2800005.D
Acq: 28 May 2014 10:19 am

Tgt Ion: 43 Resp: 1053
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#

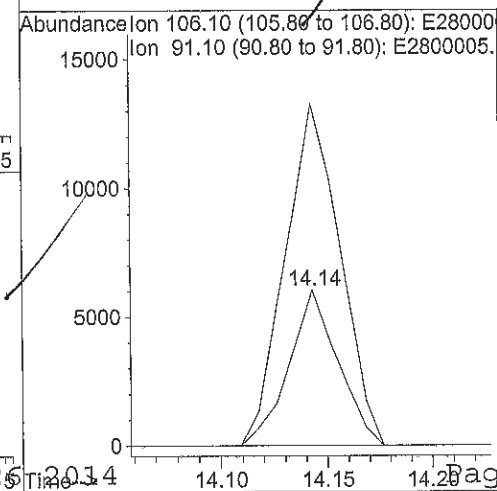


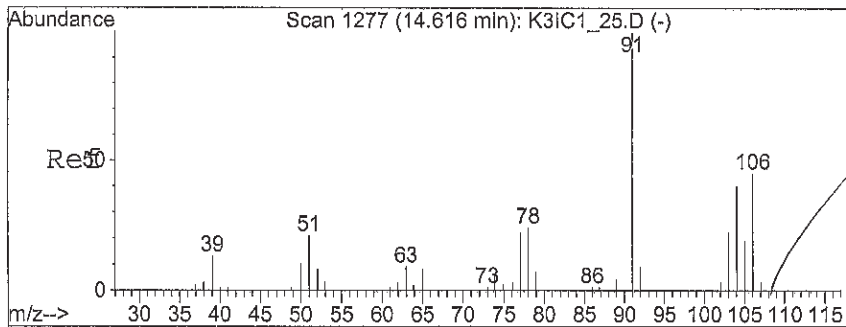


```
Tgt Ion: 91 Resp:      8269
Ion  Ratio  Lower  Upper
 91   100
106   27.1   23.5  35.3
```



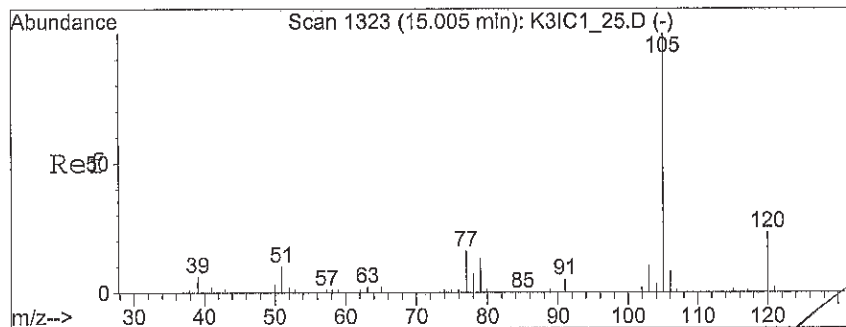
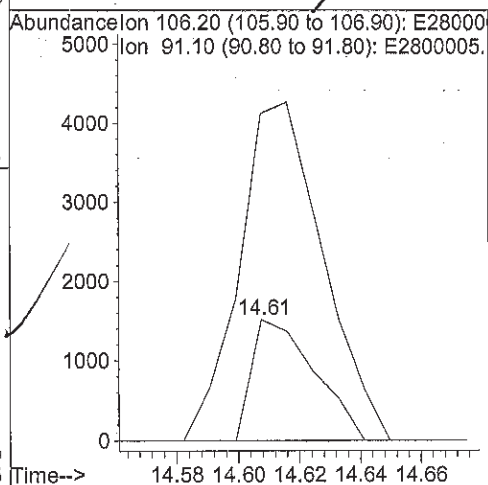
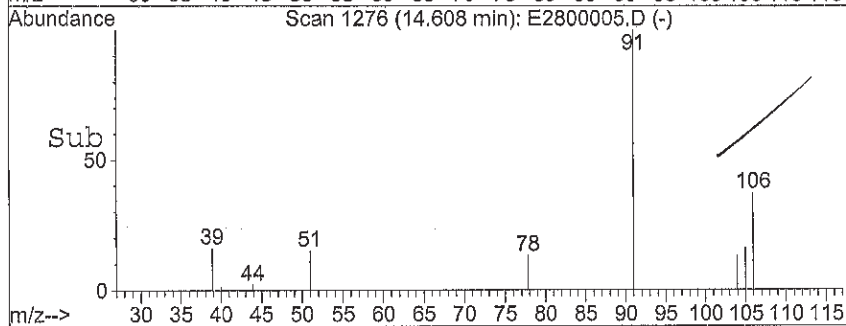
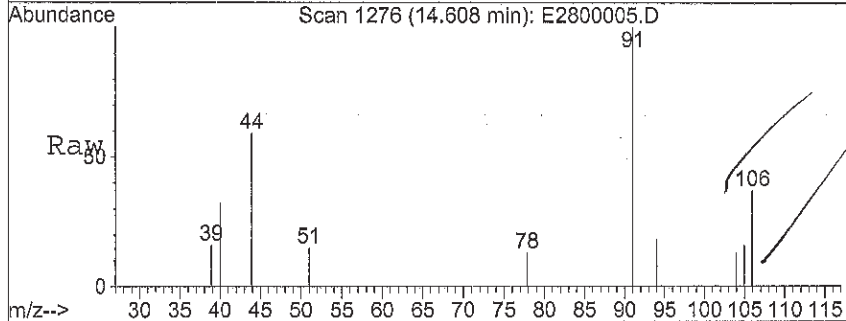
Tgt	Ion:106	Resp:	9659
Ion	Ratio	Lower	Upper
106	100		
91	246.3	177.1	265.7





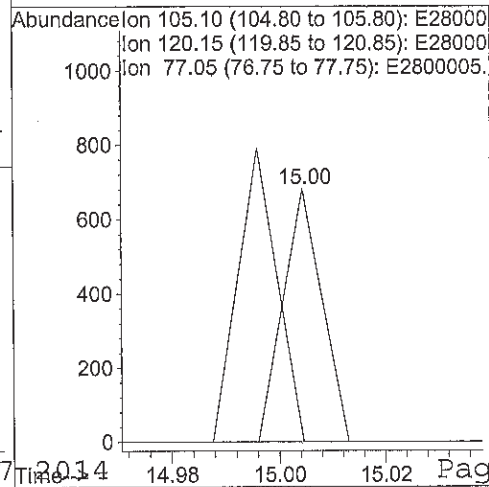
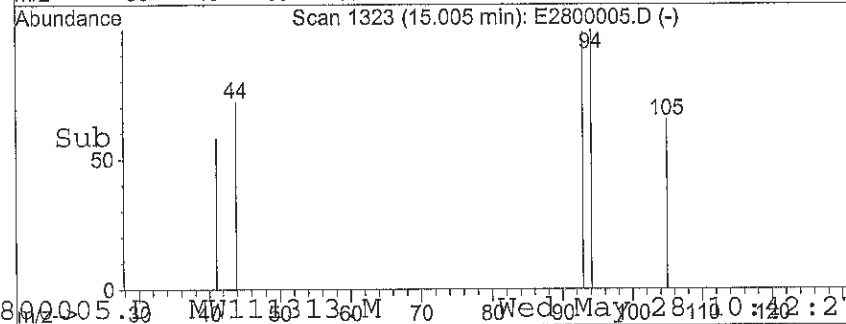
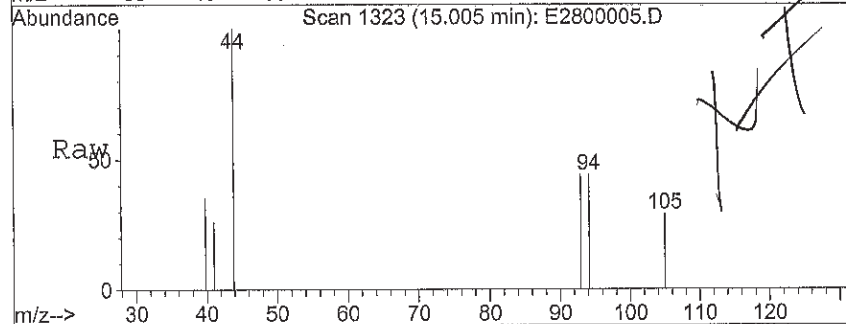
#53
o-Xylene
Concen: 0.32 ug/L
RT: 14.61 min Scan# 1276
Delta R.T. -0.01 min
Lab File: E2800005.D
Acq: 28 May 2014 10:19 am

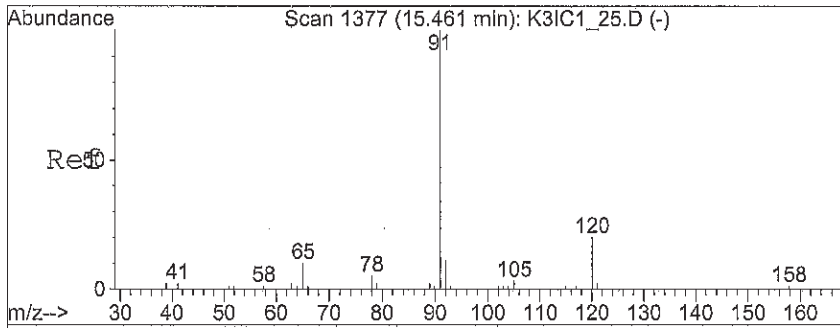
Tgt Ion:106 Resp: 2154
Ion Ratio Lower Upper
106 100
91 373.6 179.0 268.6#



#56
Isopropylbenzene
Concen: 0.02 ug/L
RT: 15.00 min Scan# 1323
Delta R.T. -0.00 min
Lab File: E2800005.D
Acq: 28 May 2014 10:19 am

Tgt Ion:105 Resp: 345
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 116.2 13.1 19.7#





#62

n-Propylbenzene

Concen: 0.02 ug/L

RT: 15.46 min Scan# 1377

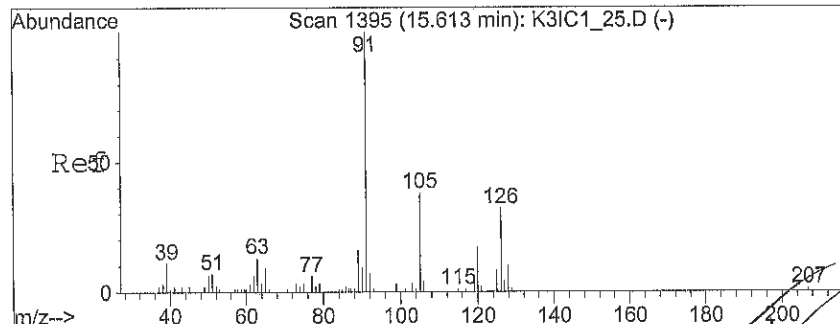
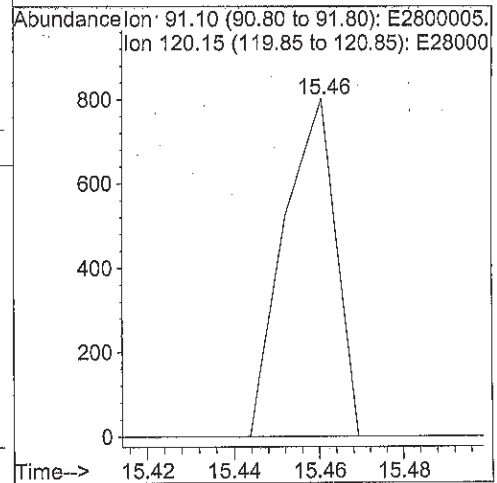
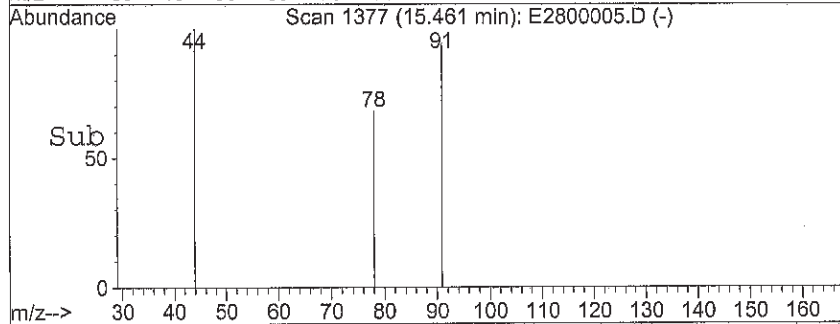
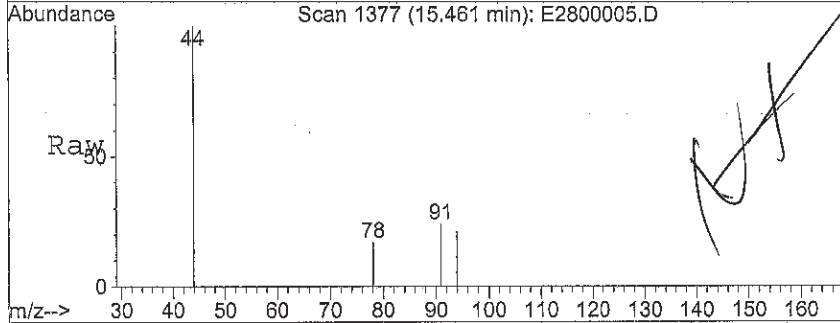
Delta R.T. -0.00 min

Lab File: E2800005.D

Acq: 28 May 2014 10:19 am

Tgt Ion: 91 Resp: 672

Ion	Ratio	Lower	Upper
91	100		
120	0.0	16.1	24.1#



#63

2-Chlorotoluene

Concen: 0.02 ug/L

RT: 15.60 min Scan# 1394

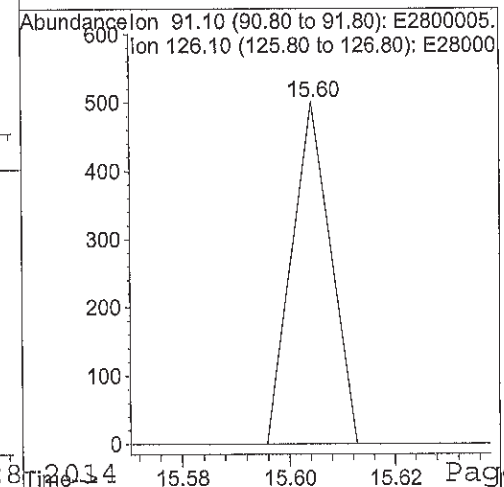
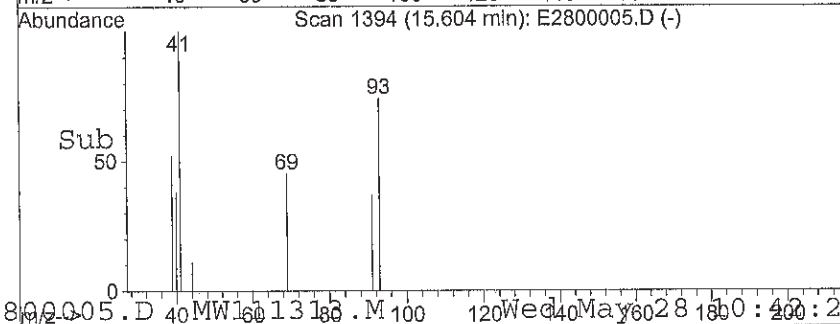
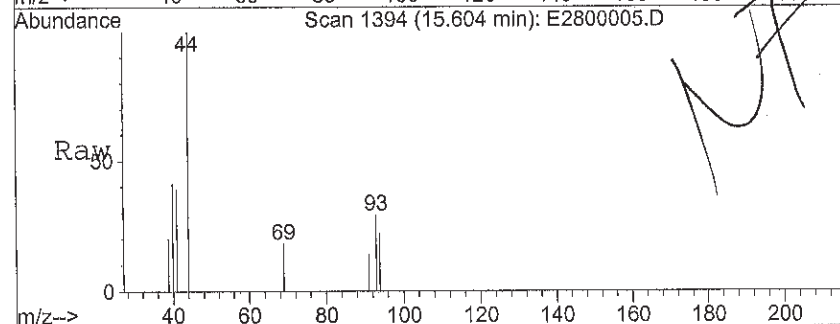
Delta R.T. -0.01 min

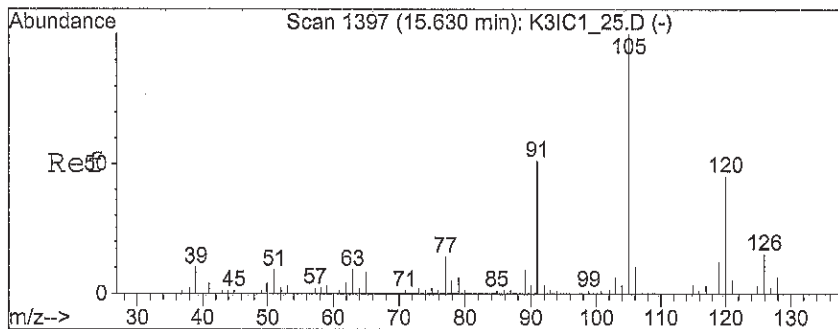
Lab File: E2800005.D

Acq: 28 May 2014 10:19 am

Tgt Ion: 91 Resp: 254

Ion	Ratio	Lower	Upper
91	100		
126	0.0	24.0	36.0#





#64

1,3,5-Trimethylbenzene

Concen: 0.05 ug/L

RT: 15.63 min Scan# 1397

Delta R.T. -0.00 min

Lab File: E2800005.D

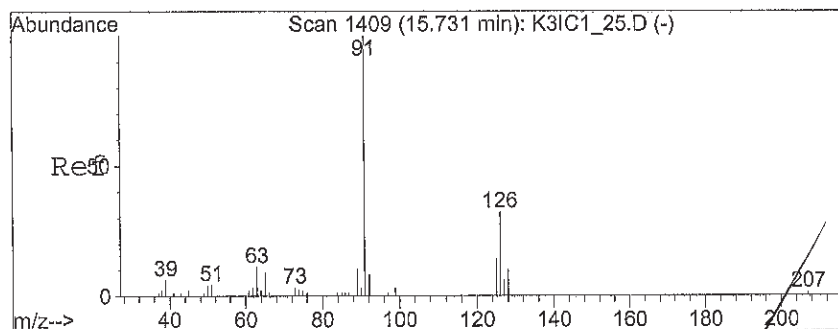
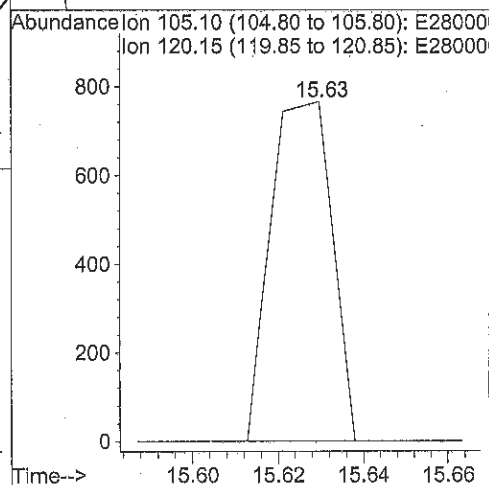
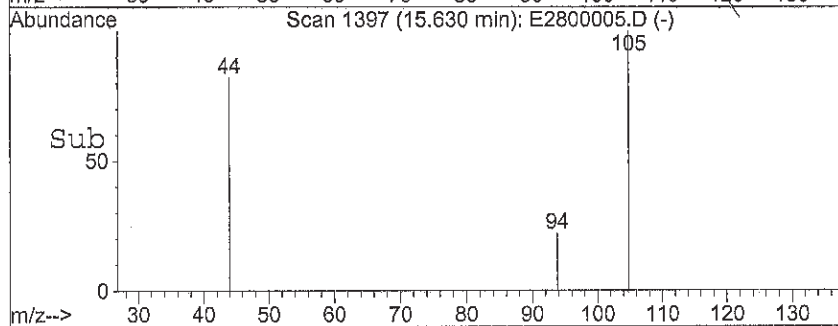
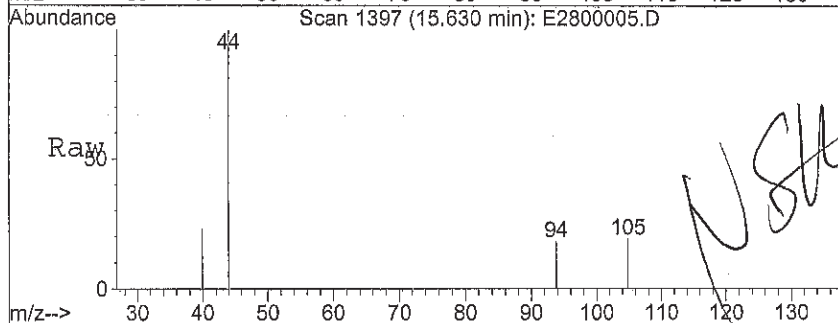
Acq: 28 May 2014 10:19 am

Tgt Ion:105 Resp: 765

Ion Ratio Lower Upper

105 100

120 0.0 36.4 54.6#



#65

4-Chlorotoluene

Concen: 0.02 ug/L

RT: 15.60 min Scan# 1394

Delta R.T. -0.13 min

Lab File: E2800005.D

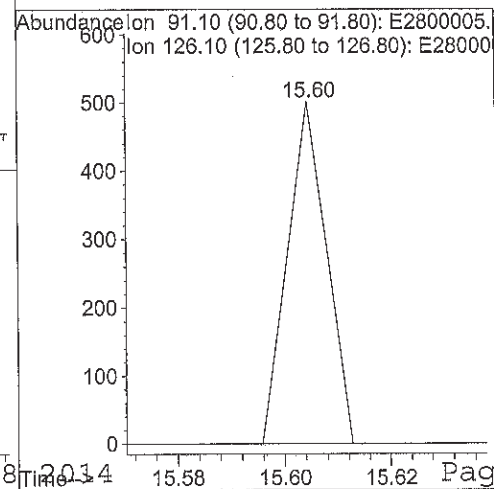
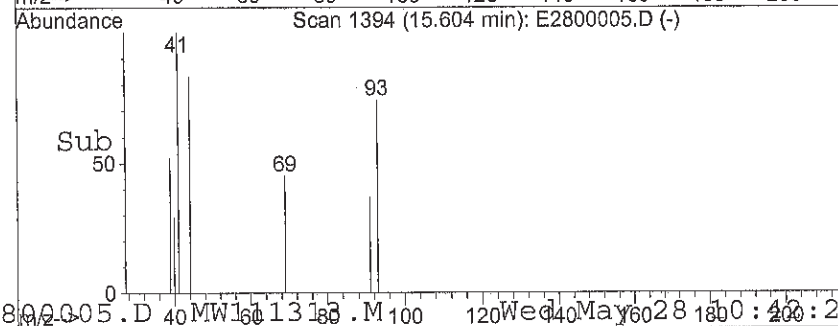
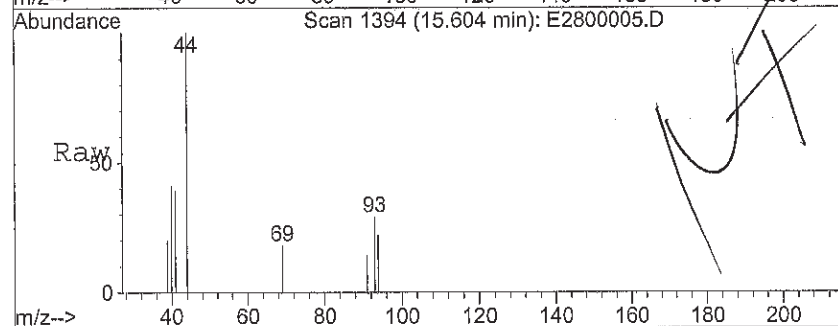
Acq: 28 May 2014 10:19 am

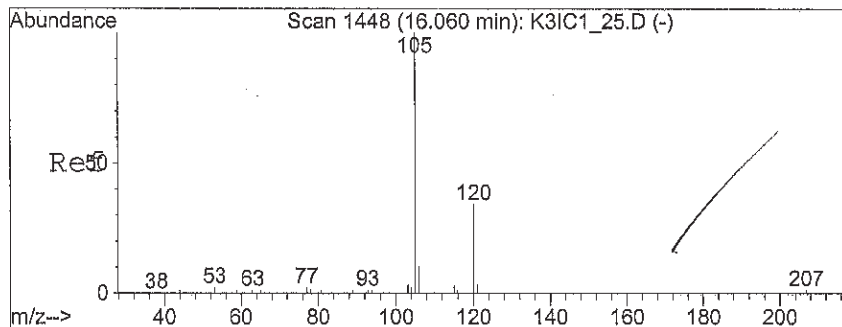
Tgt Ion: 91 Resp: 254

Ion Ratio Lower Upper

91 100

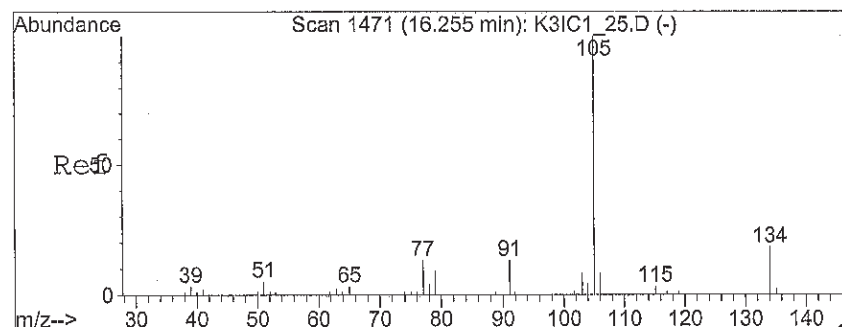
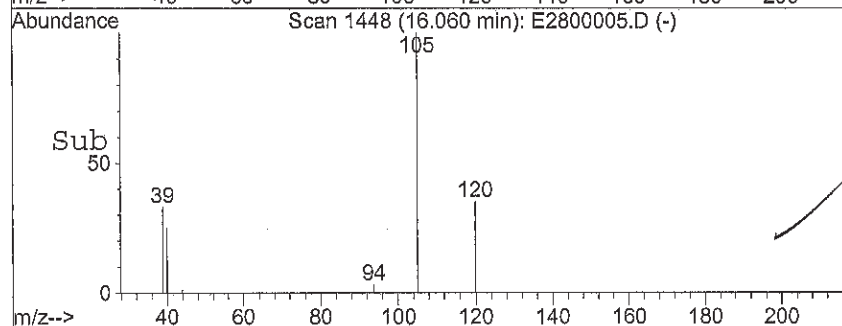
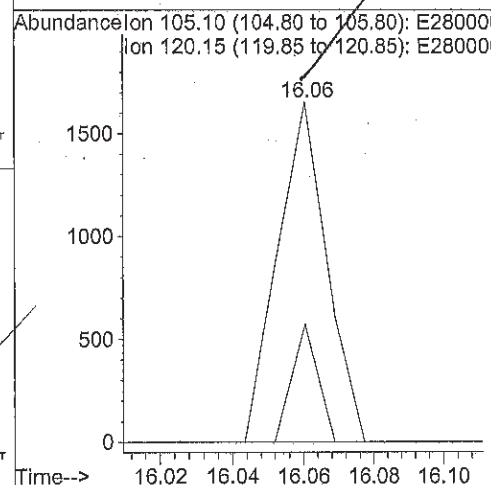
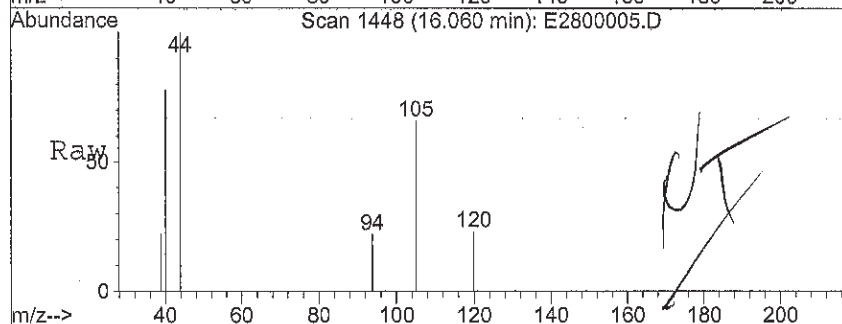
126 0.0 24.6 36.8#





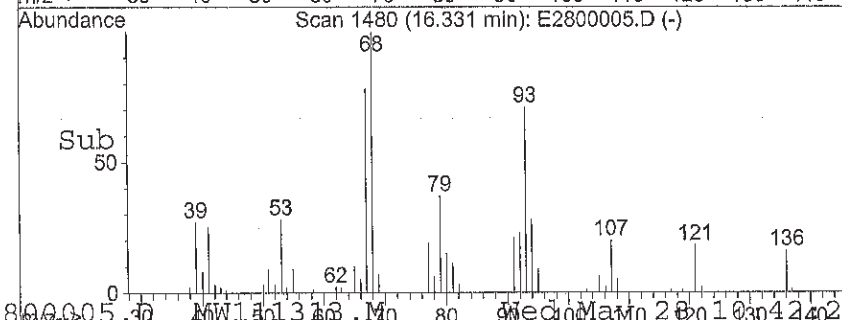
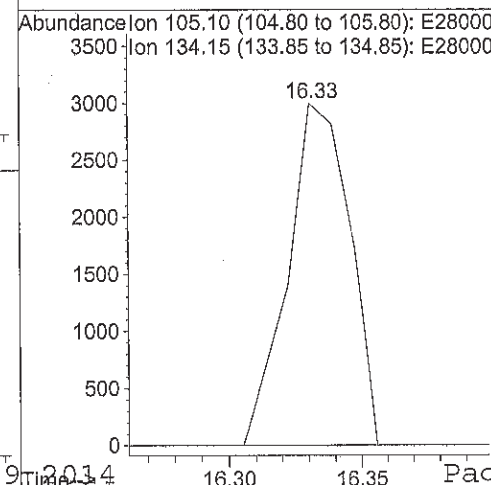
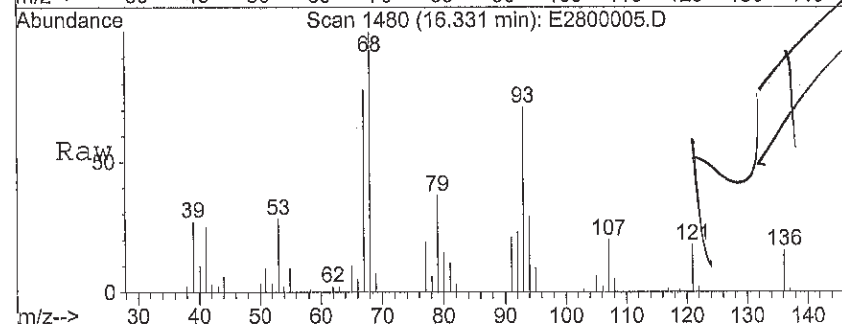
#67
 1,2,4-Trimethylbenzene
 Concen: 0.09 ug/L
 RT: 16.06 min Scan# 1448
 Delta R.T. -0.00 min
 Lab File: E2800005.D
 Acq: 28 May 2014 10:19 am

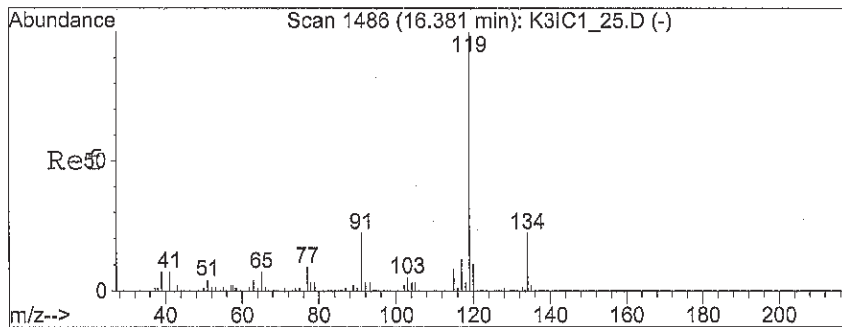
Tgt Ion:105 Resp: 1584
 Ion Ratio Lower Upper
 105 100
 120 18.3 33.8 50.8#



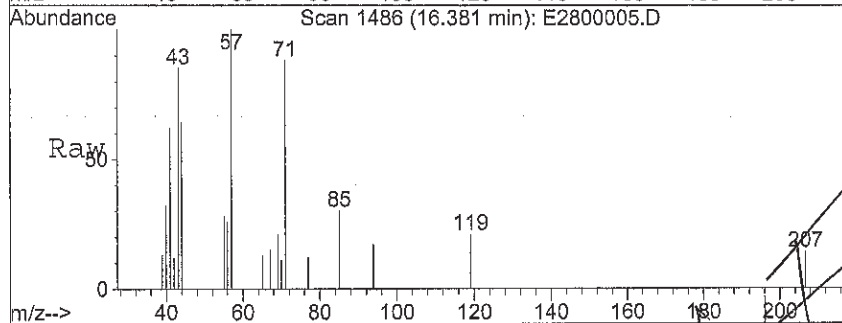
#68
 sec-Butylbenzene
 Concen: 0.22 ug/L
 RT: 16.33 min Scan# 1480
 Delta R.T. 0.08 min
 Lab File: E2800005.D
 Acq: 28 May 2014 10:19 am

Tgt Ion:105 Resp: 4882
 Ion Ratio Lower Upper
 105 100
 134 0.0 13.0 19.6#

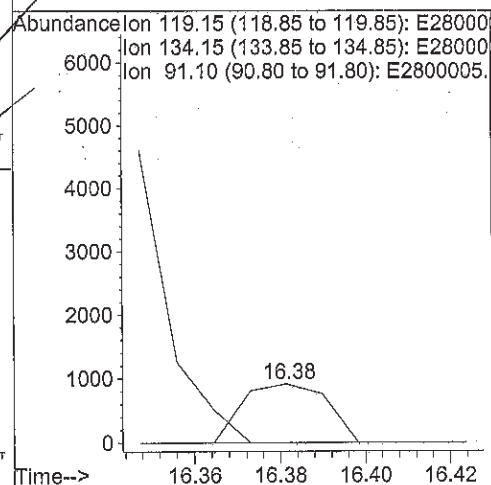
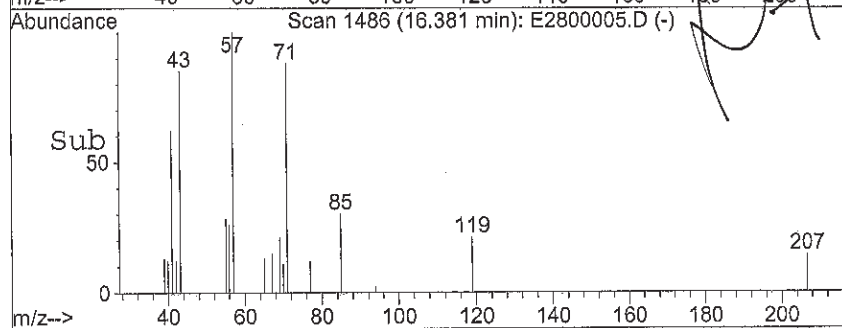




#69
 p-Isopropyltoluene
 Concen: 0.07 ug/L
 RT: 16.38 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: E2800005.D
 Acq: 28 May 2014 10:19 am



Tgt Ion	Resp	Lower	Upper
119	1255		
134	0.0	17.4	26.2#
91	0.0	19.6	29.4#



Data File : C:\HPCHEM\1\DATA\052814L3\E2800005.D

Vial: 4

Acq On : 28 May 2014 10:19 am

Operator: DN

Sample : 3E42801-04

Inst : GC/MS Ins

Misc : 100cc SVL-515-SA5D-SV-12.5-13.8

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 10:41 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1591812	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.91	117	1232045	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	673028	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	445744	10.77	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	86.16%
3) Chloroform-d (SU6)	9.18	84	720165	12.12	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	96.96%
4) Methylene Chloride-d2 (SU5)	7.06	86	409978	11.81	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	94.48%
5) 1,2-Dichloroethane-d4 (SU2)	9.89	65	442549	15.64	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	125.12%#
6) Benzene-d6 (SU7)	9.93	84	1359515	10.88	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	87.04%
8) Toluene-d8 (SU3)	12.21	98	1397374	11.95	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.60%
9) 4-Bromofluorobenzene (SU4)	15.22	95	685176	14.20	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	113.60%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2800005.D SS072713.M

Wed May 28 10:41:52 2014

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800005.D

Vial: 4

Acq On : 28 May 2014 10:19 am

Operator: DN

Sample : 3E42801-04

Inst : GC/MS Ins

Misc : 100cc SVL-515-SA5D-SV-12.5-13.8

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 10:41 19114

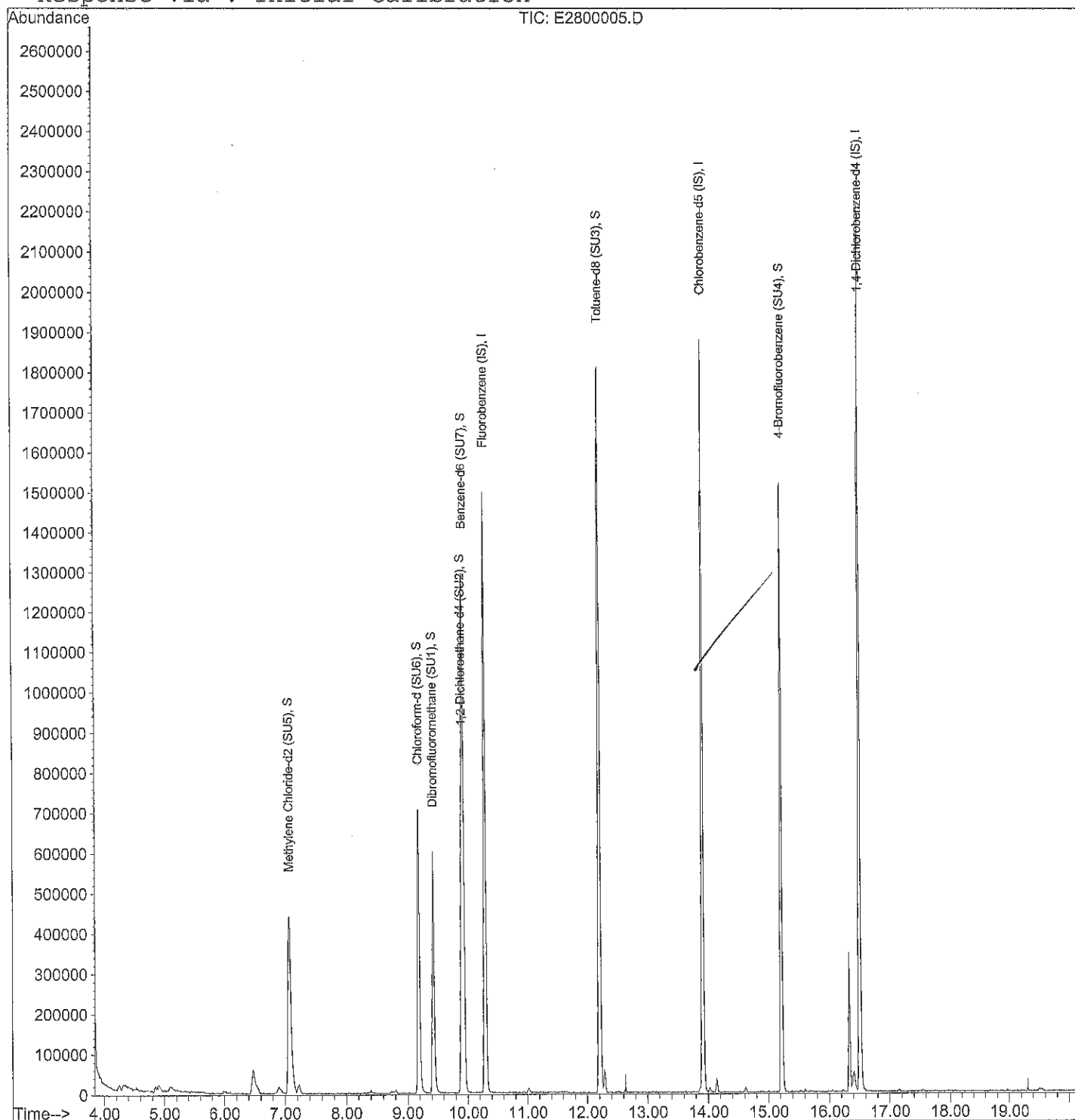
Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052814L3\E2800006.D

Vial: 5

Acq On : 28 May 2014 10:47 am

Operator: DN

Sample : 3E42801-05

Inst : GC/MS Ins

Misc : 100cc SVL-511-SA5D-SV-4.5-5.5

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 11:34 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1624445	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1300399	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	693251	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	464182	11.46	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	91.68%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	459490	11.93	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.44%
39) Toluene-d8 (SU3)	12.21	98	1455888	12.00	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.00%
58) 4-Bromofluorobenzene (SU4)	15.22	95	697818	13.12	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	104.96%

Target Compounds

					Qvalue	
3) (F12) Dichlorodifluorometh	4.12	85	351	0.09	ug/L #	44
4) Chloromethane	4.40	50	2784	-0.20	ug/L #	41
6) Bromomethane	5.08	96	2262	-0.51	ug/L #	1
7) Chloroethane	5.25	64	1048	1.46	ug/L #	78
11) Acetone	6.46	58	4246	1.63	ug/L #	54
12) (IPA) Leak Check Compound	6.48	45	153790	787.86	ug/L #	84
14) Methylene Chloride	7.07	84	5413	1.21	ug/L #	1
15) (TBA) tert-Butanol	6.89	59	2736	9.87	ug/L #	77
24) Chloroform	9.21	83	2159	0.25	ug/L #	85
29) 1,1-Dichloropropene	9.93	75	259	0.04	ug/L #	1
31) Benzene	9.98	78	697	0.05	ug/L #	59
32) 1,2-Dichloroethane	9.92	62	6872	1.27	ug/L #	1
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	8293	3.20	ug/L #	100
41) Toluene	12.29	91	3128	0.18	ug/L #	90
46) 2-Hexanone	12.92	43	4327	1.52	ug/L #	37
49) Chlorobenzene	13.95	112	295	0.02	ug/L #	28
51) Ethylbenzene	14.02	91	698	0.03	ug/L #	45
53) o-Xylene	14.60	106	296	0.04	ug/L #	92
54) Styrene	14.62	104	1569	-0.72	ug/L #	60
56) Isopropylbenzene	15.22	105	634	0.03	ug/L #	1
62) n-Propylbenzene	15.21	91	1863	0.07	ug/L #	56
67) 1,2,4-Trimethylbenzene	16.15	105	290	0.02	ug/L #	33

(#) = qualifier out of range (m) = manual integration

E2800006.D MW111313.M

Wed May 28 11:34:13 2014

Page 1

Data File : C:\HPCHEM\1\DATA\052814L3\E2800006.D

Vial: 5

Acq On : 28 May 2014 10:47 am

Operator: DN

Sample : 3E42801-05

Inst : GC/MS Ins

Misc : 100cc SVL-511-SA5D-SV-4.5-5.5

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 11:34 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
68) sec-Butylbenzene	16.34	105	1737	0.07 ug/L #	62
69) p-Isopropyltoluene	16.38	119	714	0.04 ug/L #	52

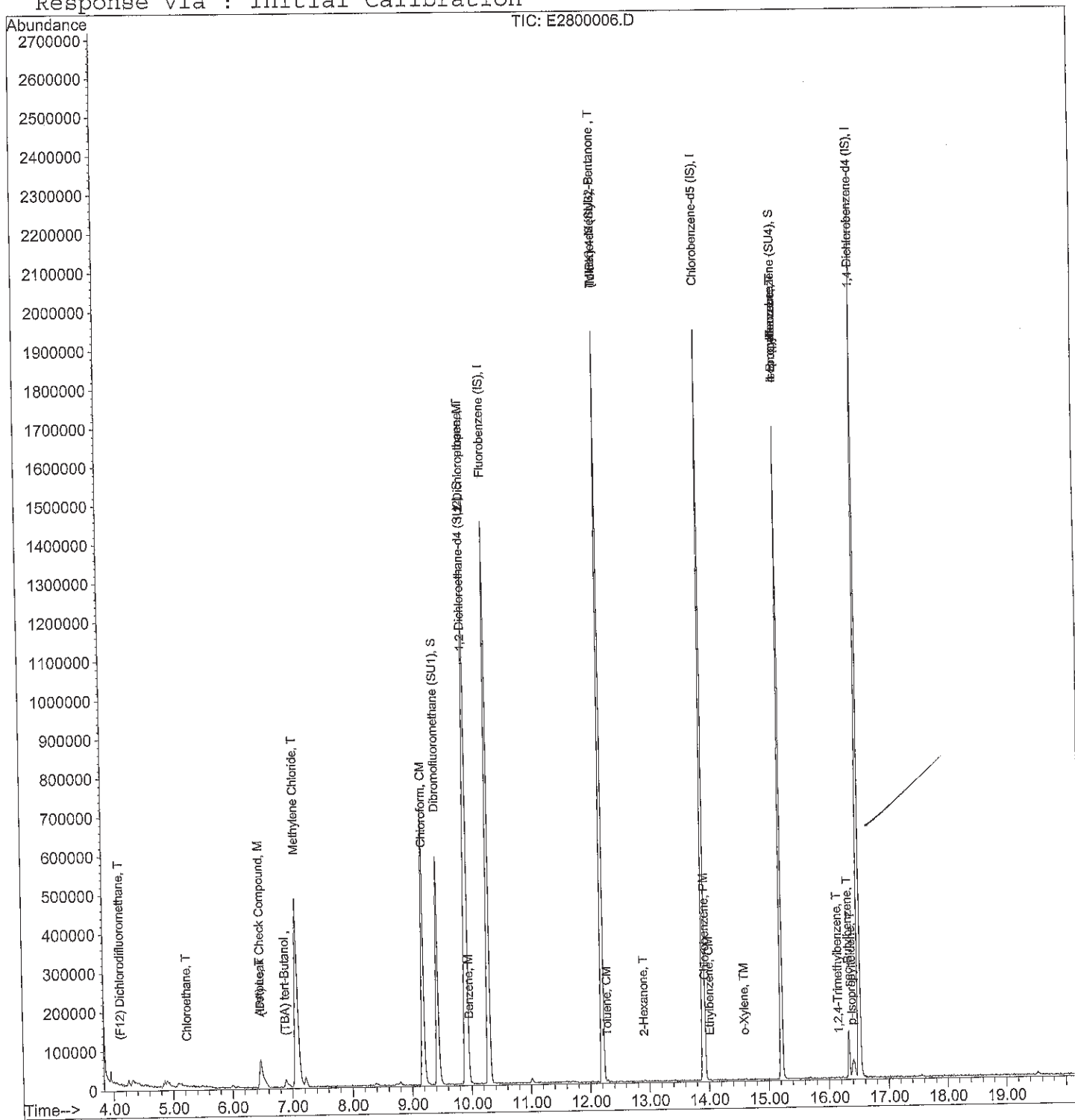
(#) = qualifier out of range (m) = manual integration

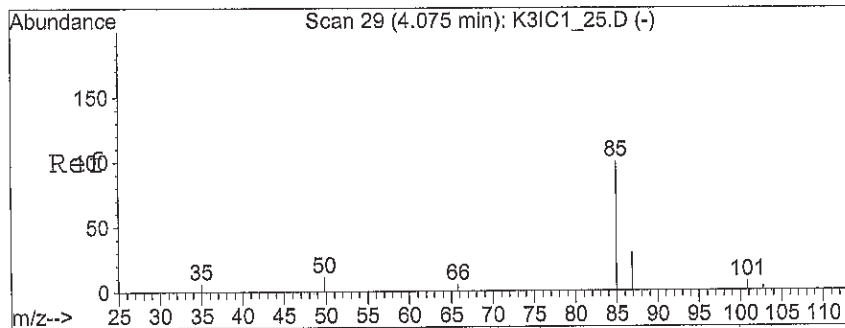
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Acq On : 28 May 2014 10:47 am
Sample : 3E42801-05
Misc : 100cc SVL-511-SA5D-SV-4.5-5.5
MS Integration Params: rteint.p
Quant Time: May 28 11:34 19114

Vial: 5
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

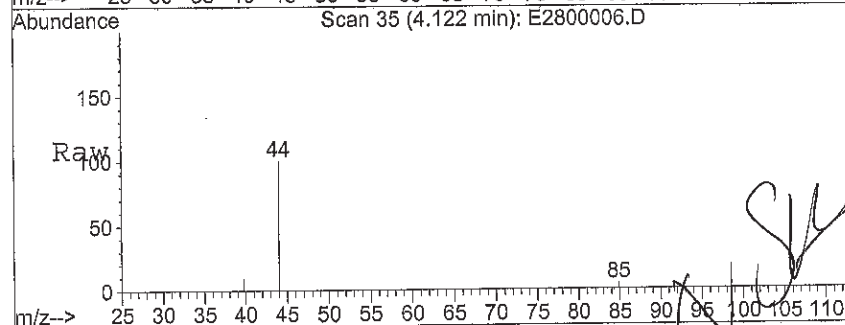
Quant Results File: MW111313.RES

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Method       : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title        : 8260B      GC/MS #3      ICAL 11/13/13      DN
Last Update   : Wed Nov 13 19:38:32 2013
Response via  : Initial Calibration
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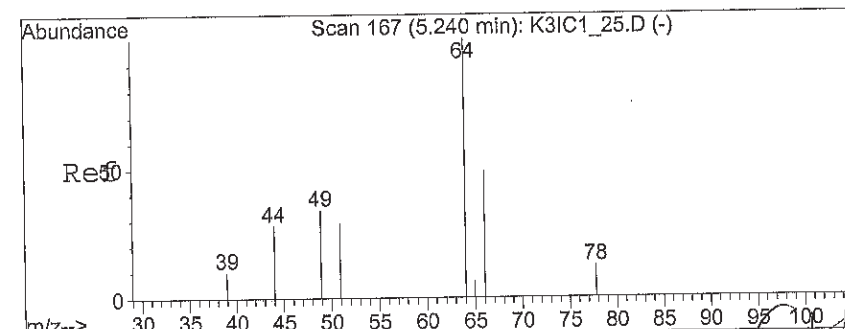
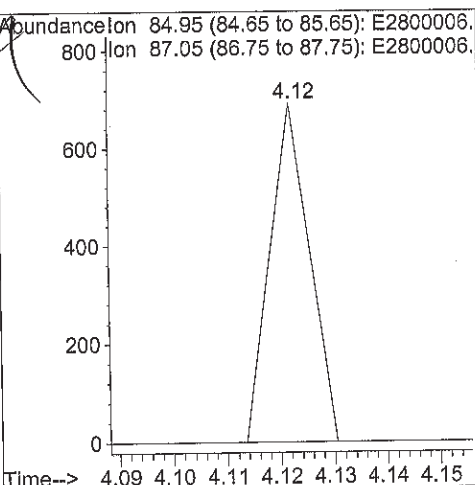
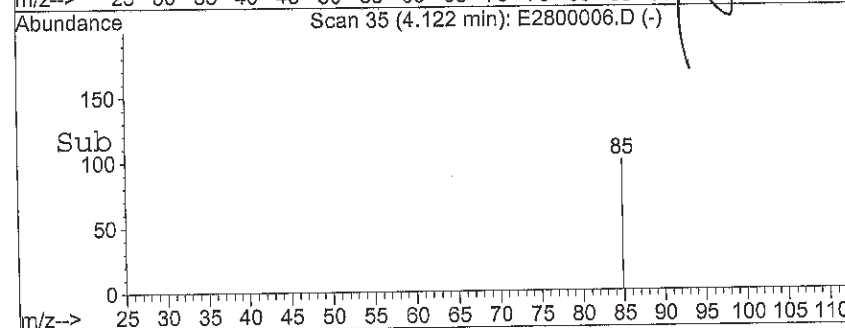




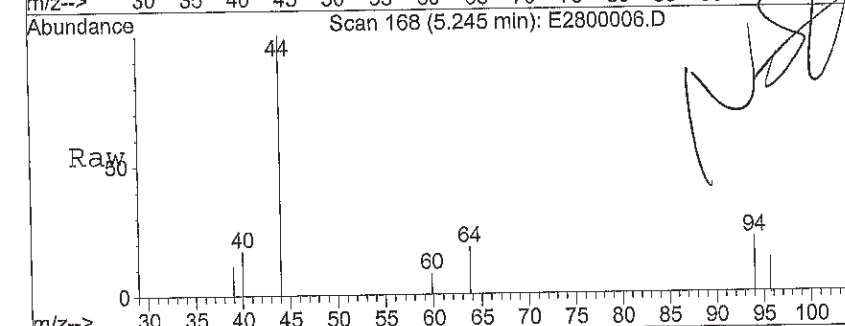
#3
 (F12) Dichlorodifluoromethane
 Concen: 0.09 ug/L
 RT: 4.12 min Scan# 35
 Delta R.T. 0.05 min
 Lab File: E2800006.D
 Acq: 28 May 2014 10:47 am



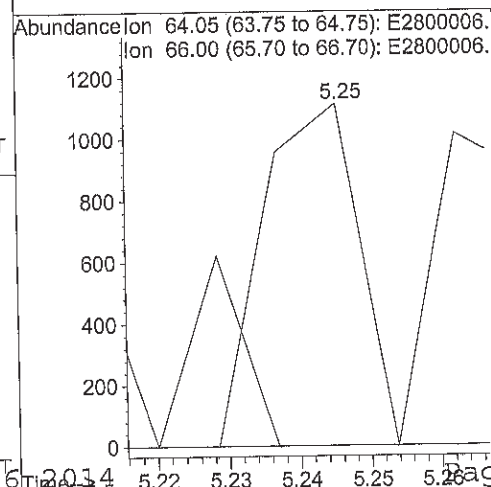
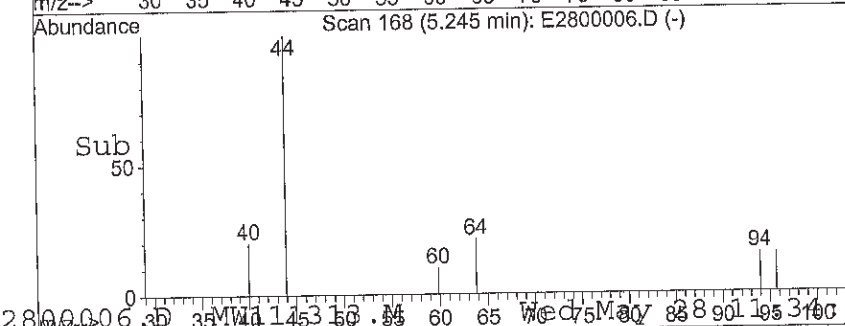
Tgt Ion: 85 Resp: 351
 Ion Ratio Lower Upper
 85 100
 87 0.0 24.6 37.0#

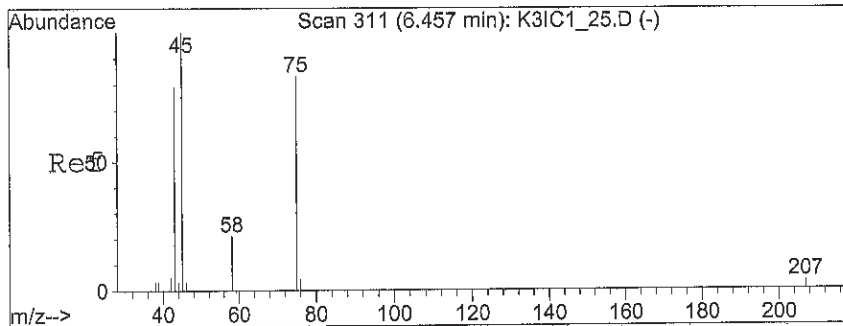


#7
 Chloroethane
 Concen: 1.46 ug/L
 RT: 5.25 min Scan# 168
 Delta R.T. 0.01 min
 Lab File: E2800006.D
 Acq: 28 May 2014 10:47 am



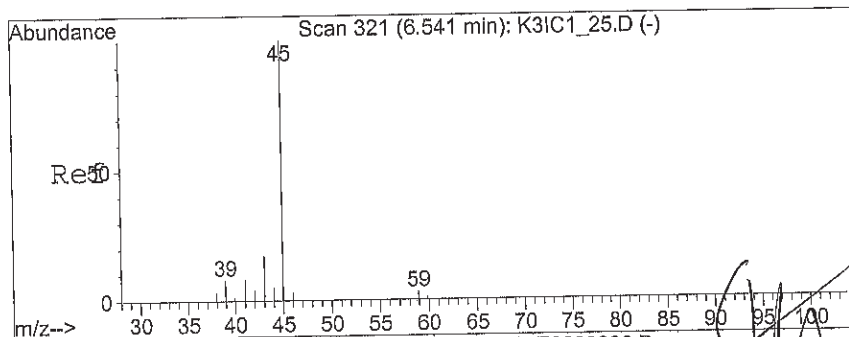
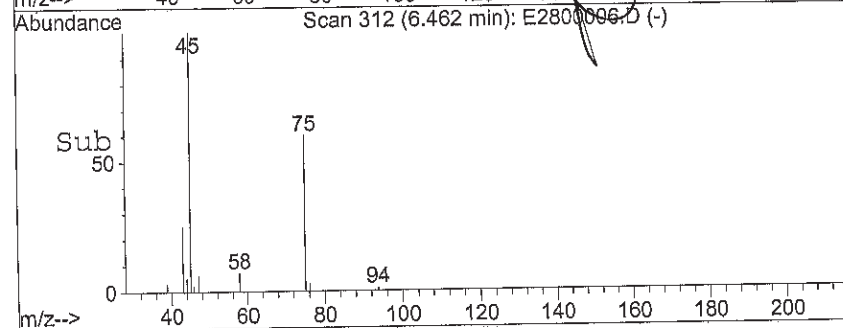
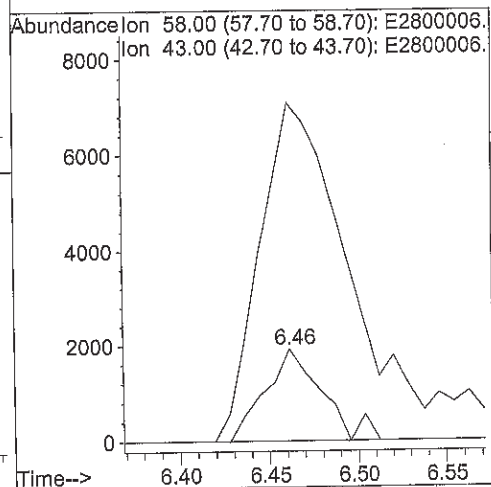
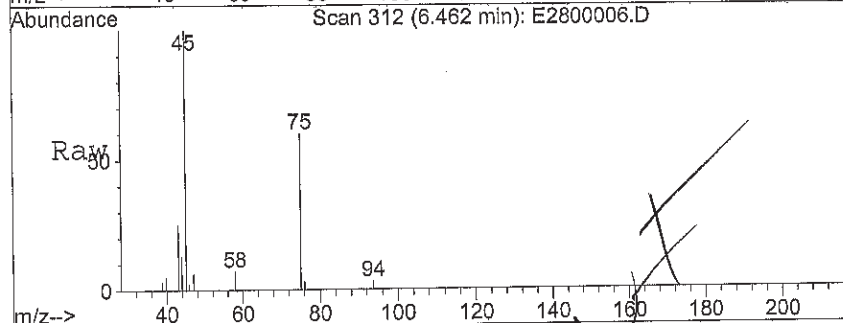
Tgt Ion: 64 Resp: 1048
 Ion Ratio Lower Upper
 64 100
 66 30.1 35.4 53.0#





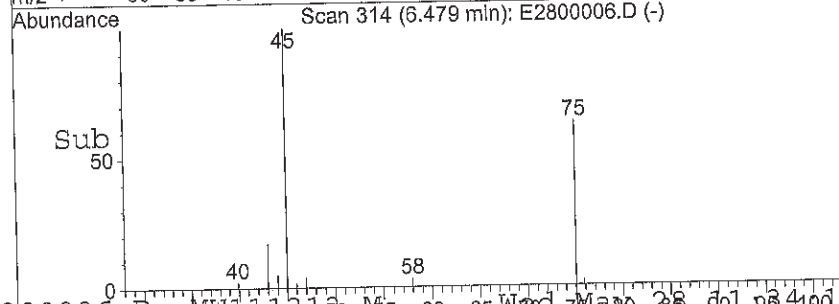
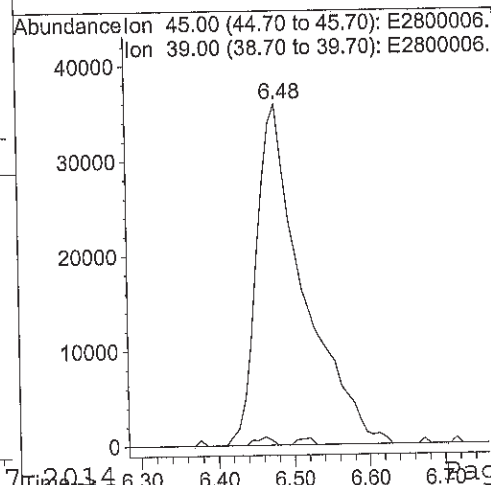
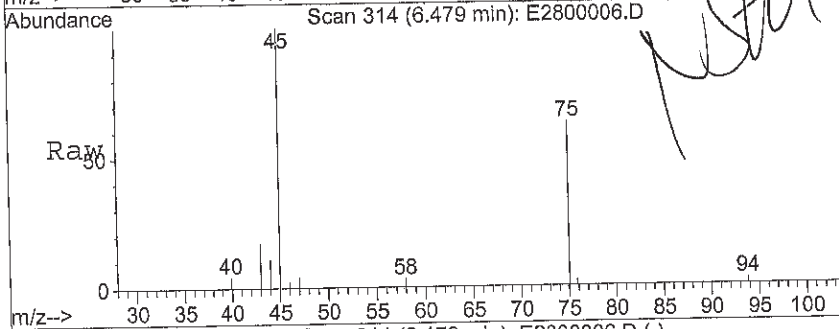
#11
Acetone
Concen: 1.63 ug/L
RT: 6.46 min Scan# 312
Delta R.T. 0.01 min
Lab File: E2800006.D
Acq: 28 May 2014 10:47 am

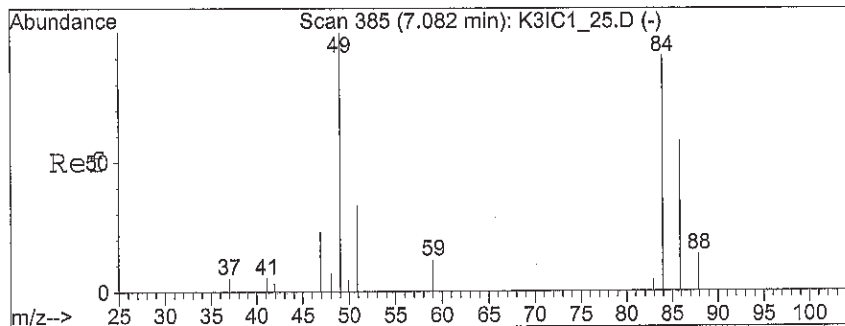
Tgt Ion: 58 Resp: 4246
Ion Ratio Lower Upper
58 100
43 570.4 360.9 541.3#



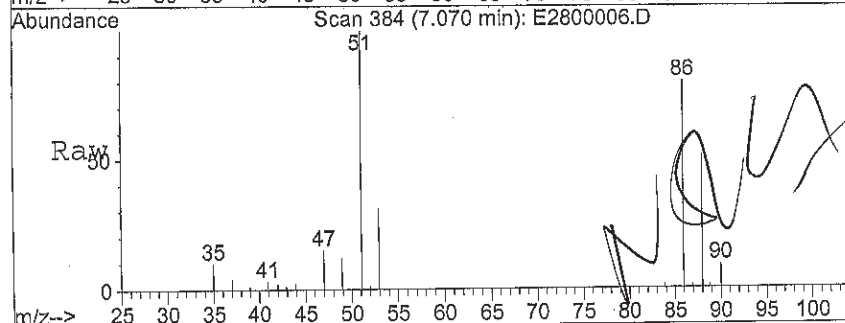
#12
(IPA) Leak Check Compound
Concen: 787.86 ug/L
RT: 6.48 min Scan# 314
Delta R.T. -0.06 min
Lab File: E2800006.D
Acq: 28 May 2014 10:47 am

Tgt Ion: 45 Resp: 153790
Ion Ratio Lower Upper
45 100
39 0.8 4.9 7.3#

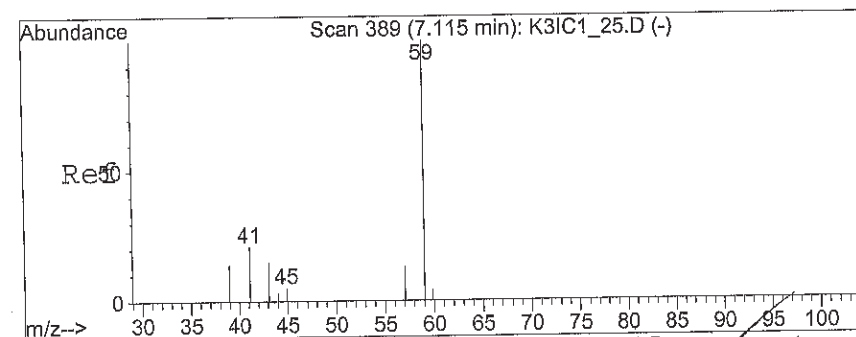
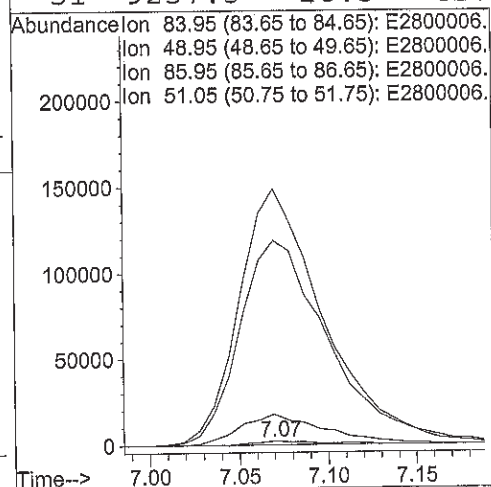
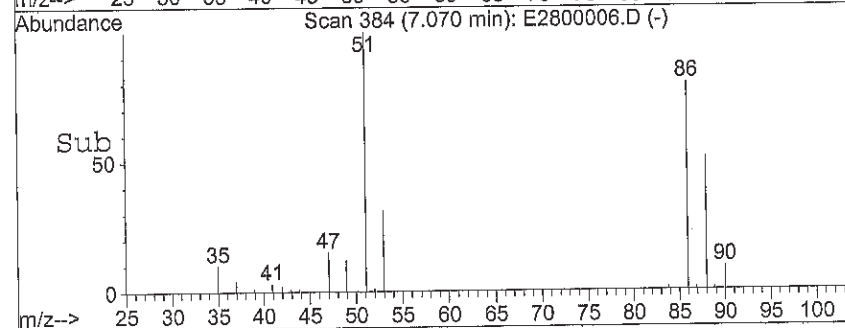




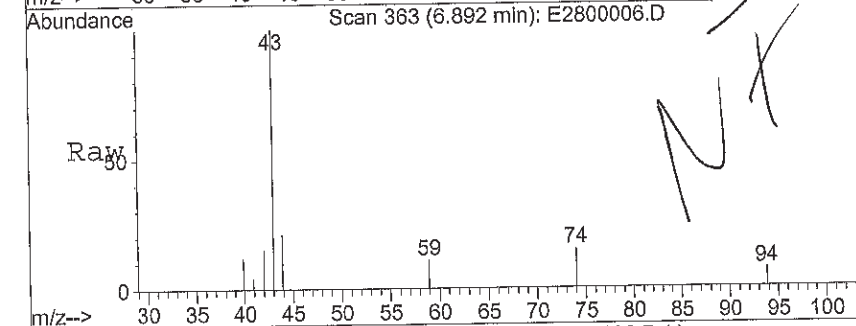
#14
Methylene Chloride
Concen: 1.21 ug/L
RT: 7.07 min Scan# 384
Delta R.T. -0.01 min
Lab File: E2800006.D
Acq: 28 May 2014 10:47 am



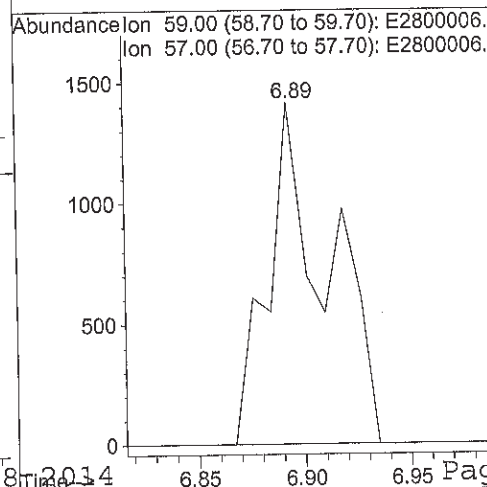
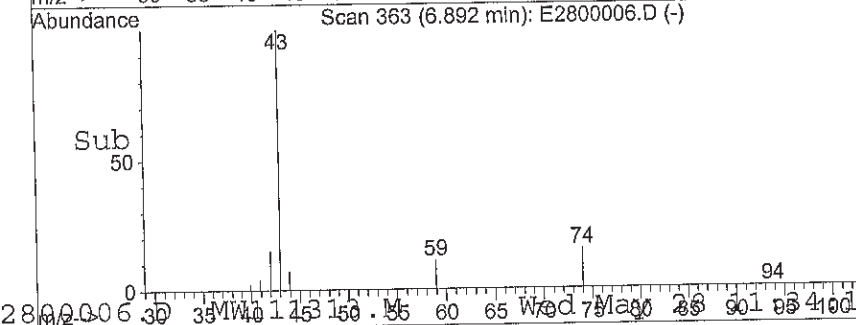
Tgt Ion: 84 Resp: 5413
Ion Ratio Lower Upper
84 100
49 1076.5 89.8 134.6#
86 7685.5 51.1 76.7#
51 9237.3 28.5 42.7#

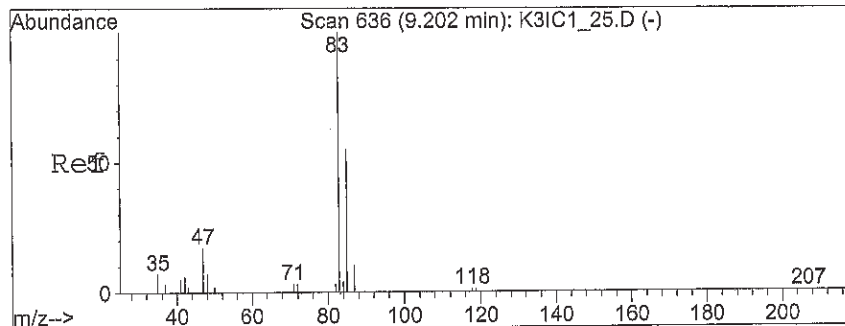


#15
(TBA) tert-Butanol
Concen: 9.87 ug/L
RT: 6.89 min Scan# 363
Delta R.T. -0.22 min
Lab File: E2800006.D
Acq: 28 May 2014 10:47 am



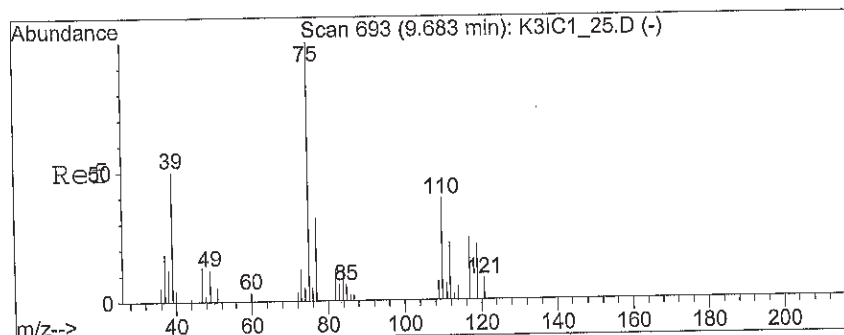
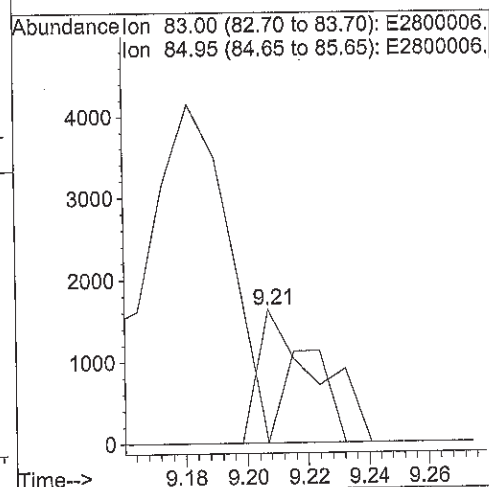
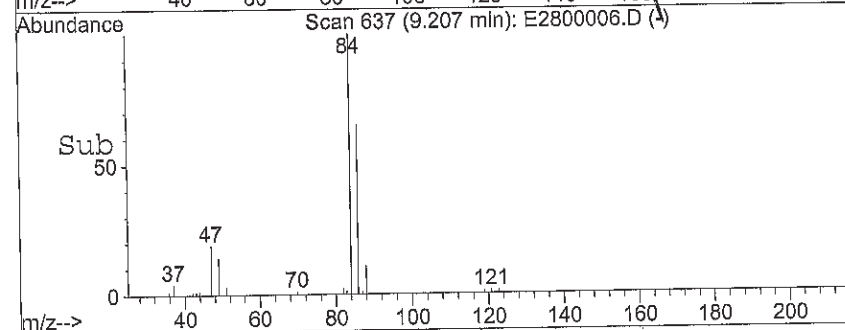
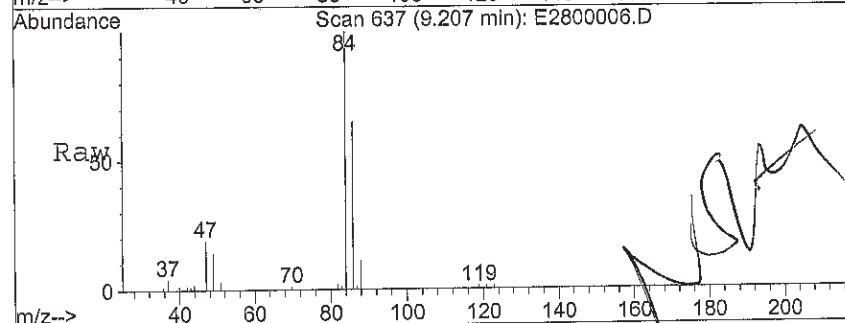
Tgt Ion: 59 Resp: 2736
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#





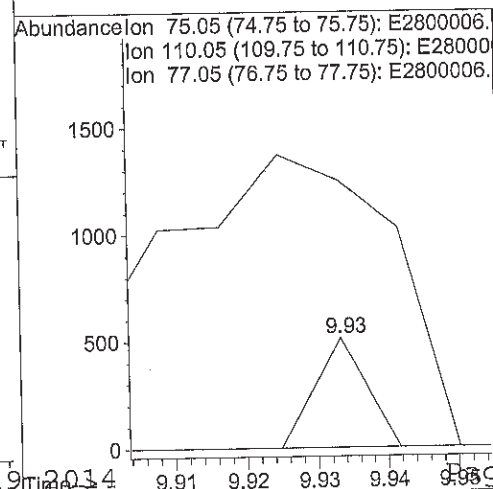
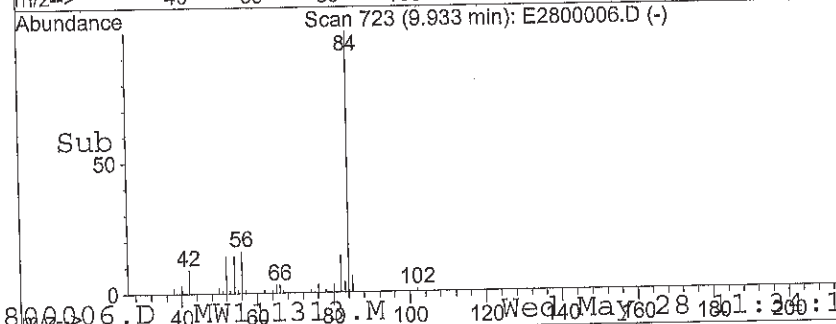
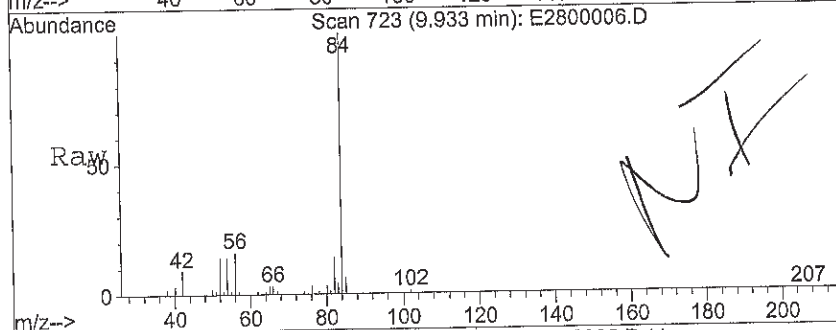
#24
 Chloroform
 Concen: 0.25 ug/L
 RT: 9.21 min Scan# 637
 Delta R.T. 0.01 min
 Lab File: E2800006.D
 Acq: 28 May 2014 10:47 am

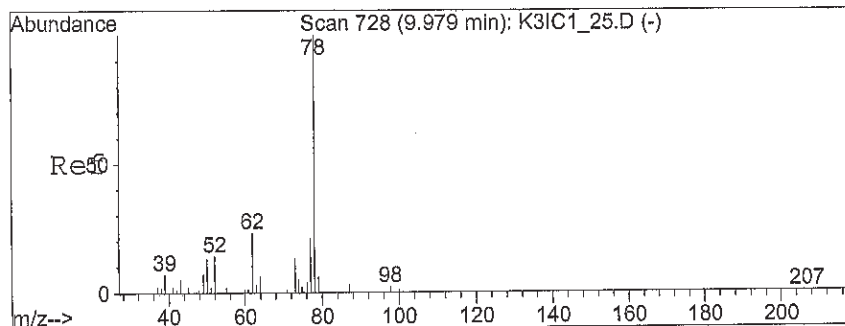
Tgt Ion: 83 Resp: 2159
 Ion Ratio Lower Upper
 83 100
 85 52.7 51.8 77.6



#29
 1,1-Dichloropropene
 Concen: 0.04 ug/L
 RT: 9.93 min Scan# 723
 Delta R.T. 0.25 min
 Lab File: E2800006.D
 Acq: 28 May 2014 10:47 am

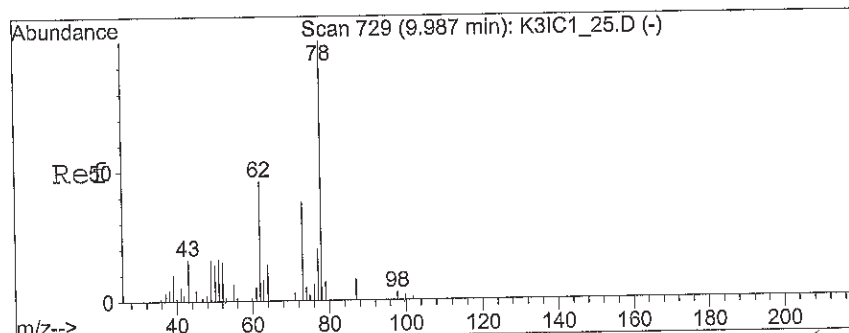
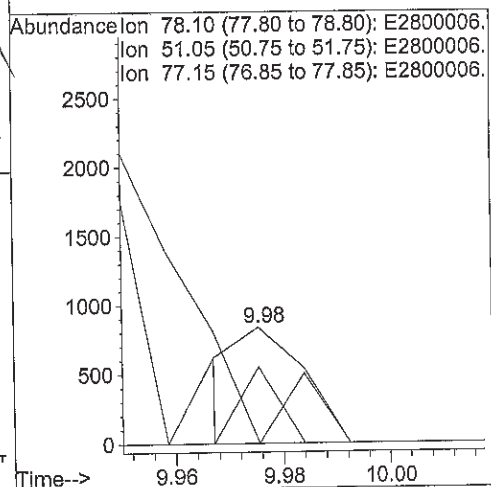
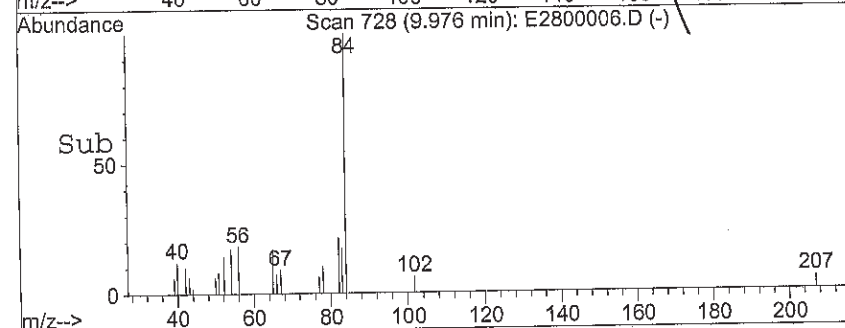
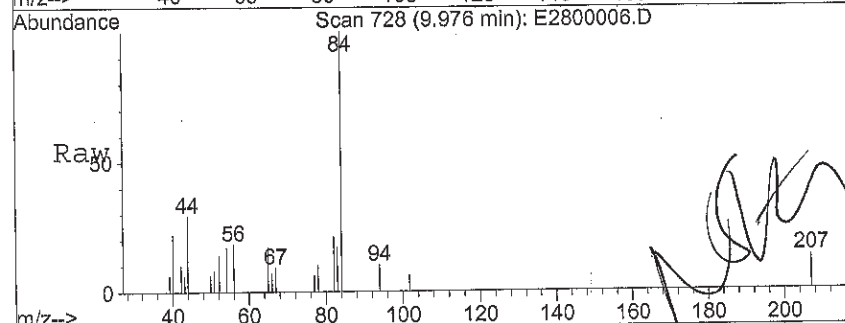
Tgt Ion: 75 Resp: 259
 Ion Ratio Lower Upper
 75 100
 110 0.0 29.0 43.6#
 77 1225.9 25.0 37.4#





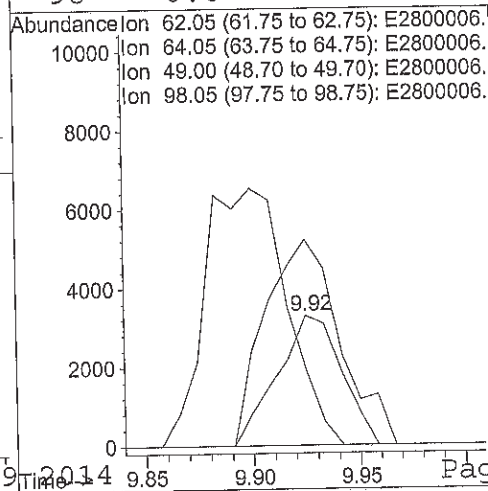
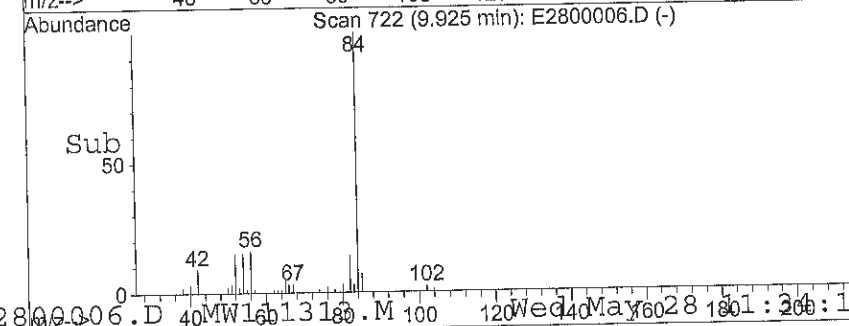
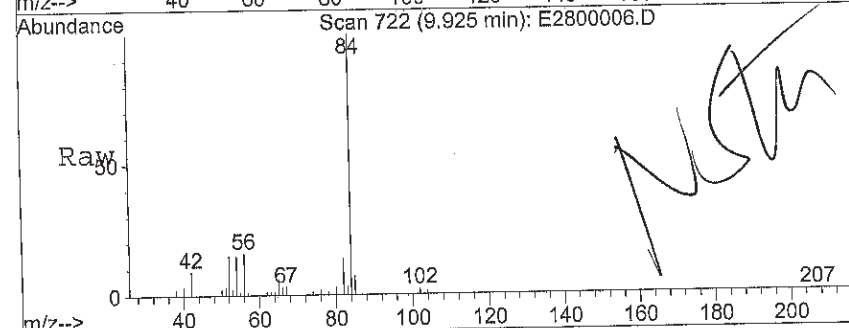
#31
Benzene
Concen: 0.05 ug/L
RT: 9.98 min Scan# 728
Delta R.T. -0.00 min
Lab File: E2800006.D
Acq: 28 May 2014 10:47 am

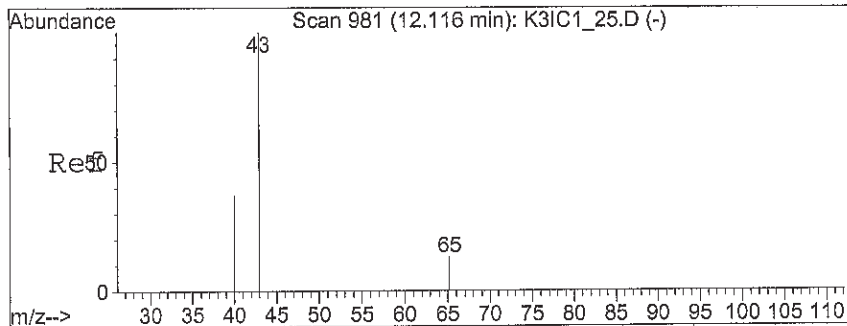
Tgt Ion: 78 Resp: 697
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 39.9 16.6 24.8#



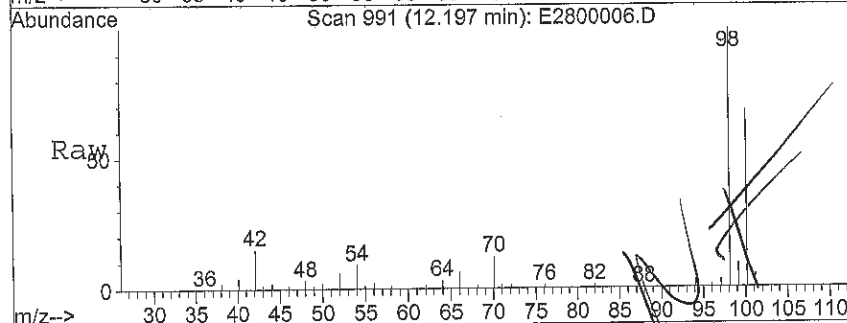
#32
1,2-Dichloroethane
Concen: 1.27 ug/L
RT: 9.92 min Scan# 722
Delta R.T. -0.06 min
Lab File: E2800006.D
Acq: 28 May 2014 10:47 am

Tgt Ion: 62 Resp: 6872
Ion Ratio Lower Upper
62 100
64 184.9 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#

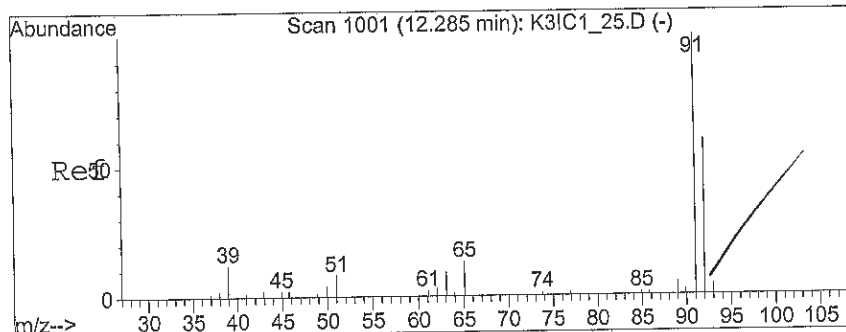
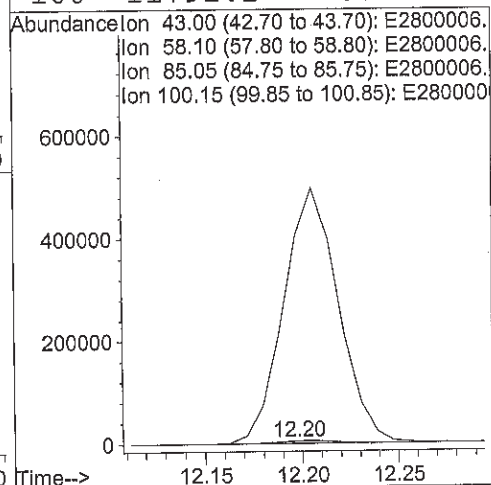
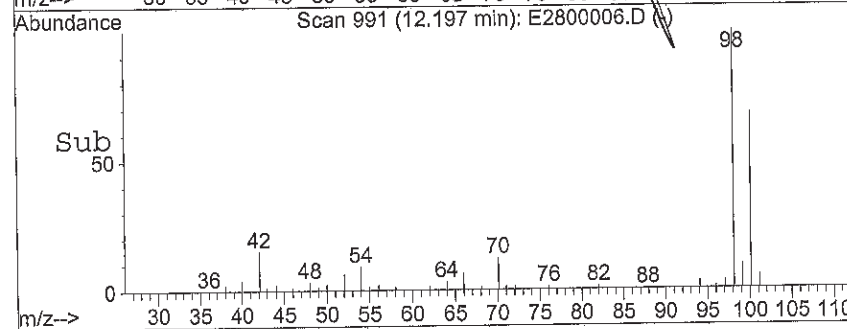




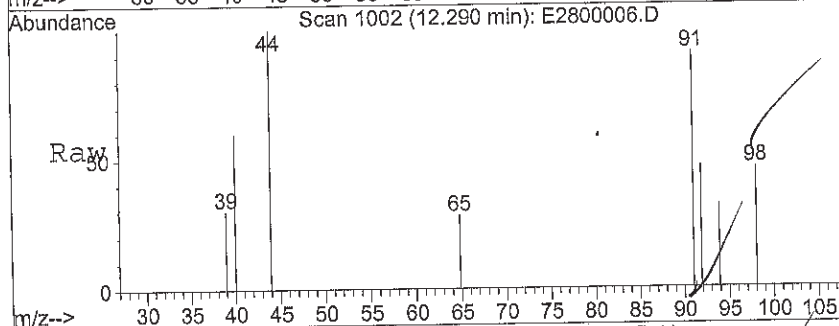
#40
 (MIBK) 4-Methyl-2-Pentanone
 Concen: 3.20 ug/L
 RT: 12.20 min Scan# 991
 Delta R.T. 0.08 min
 Lab File: E2800006.D
 Acq: 28 May 2014 10:47 am



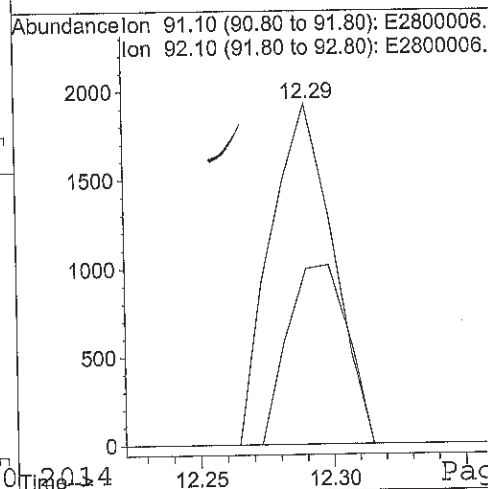
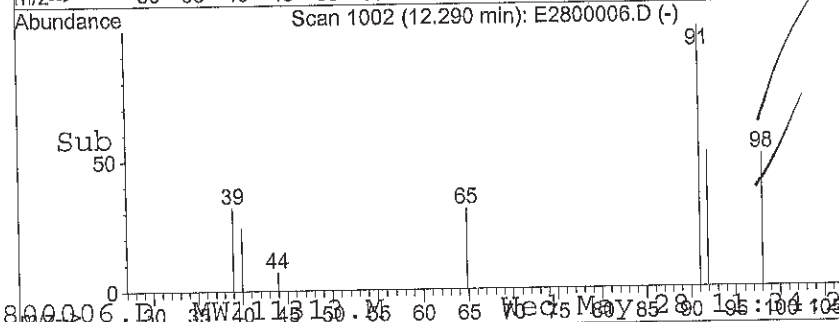
Tgt Ion: 43 Resp: 8293
 Ion Ratio Lower Upper
 43 100
 58 127.8 0.0 0.0#
 85 0.0 0.0 0.0
 100 11792.2 0.0 0.0#

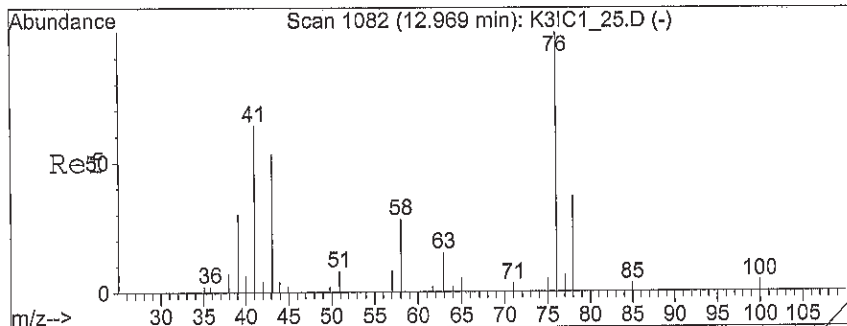


#41
 Toluene
 Concen: 0.18 ug/L
 RT: 12.29 min Scan# 1002
 Delta R.T. 0.01 min
 Lab File: E2800006.D
 Acq: 28 May 2014 10:47 am

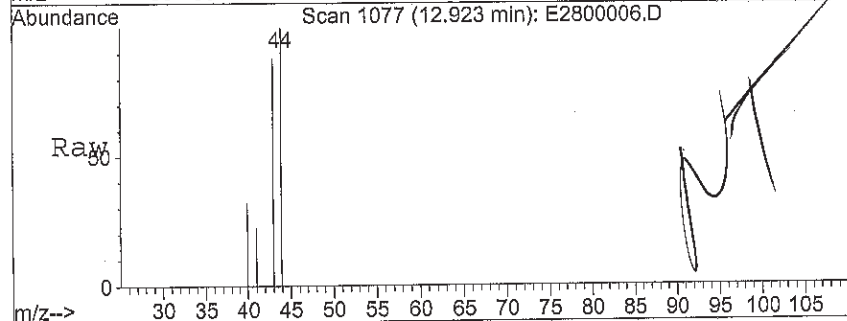


Tgt Ion: 91 Resp: 3128
 Ion Ratio Lower Upper
 91 100
 92 51.4 47.4 71.0

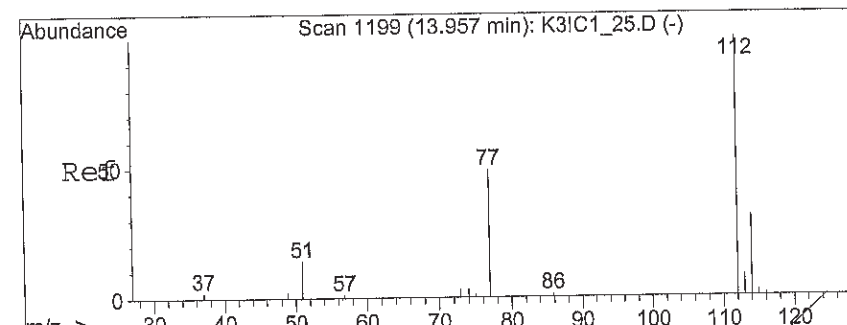
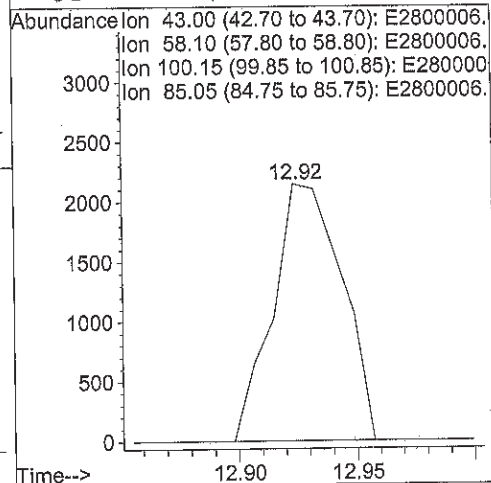
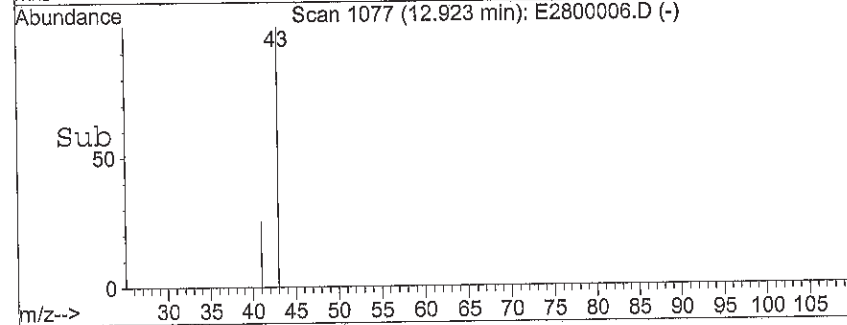




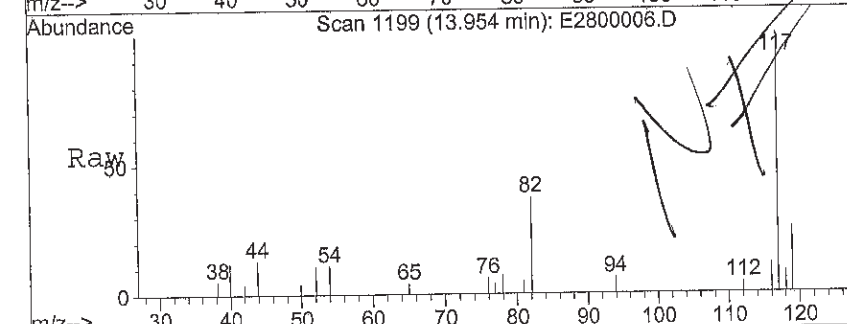
#46
2-Hexanone
Concen: 1.52 ug/L
RT: 12.92 min Scan# 1077
Delta R.T. -0.05 min
Lab File: E2800006.D
Acq: 28 May 2014 10:47 am



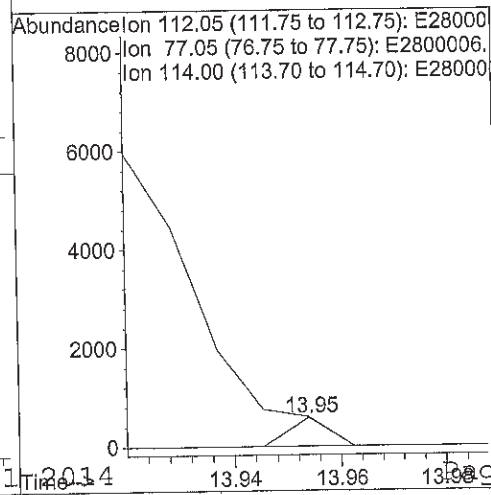
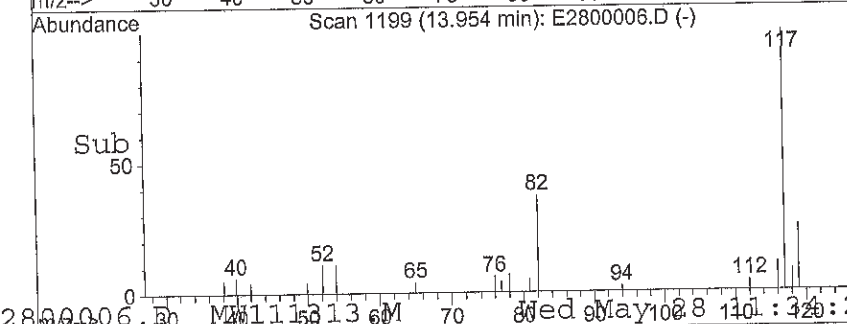
Tgt Ion: 43 Resp: 4327
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#

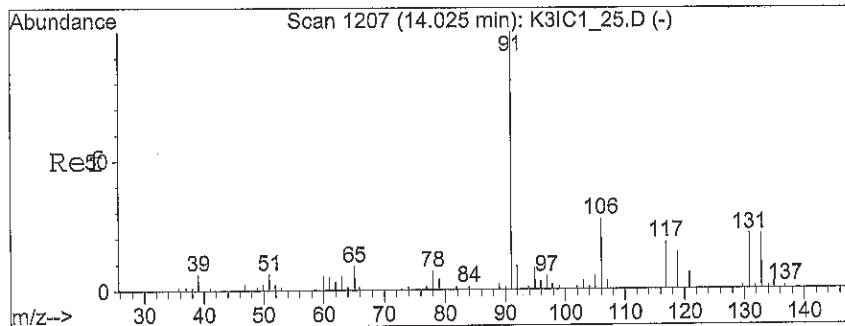


#49
Chlorobenzene
Concen: 0.02 ug/L
RT: 13.95 min Scan# 1199
Delta R.T. -0.00 min
Lab File: E2800006.D
Acq: 28 May 2014 10:47 am



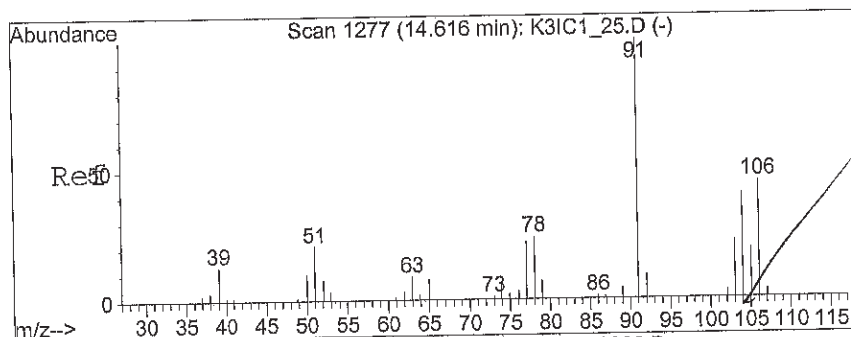
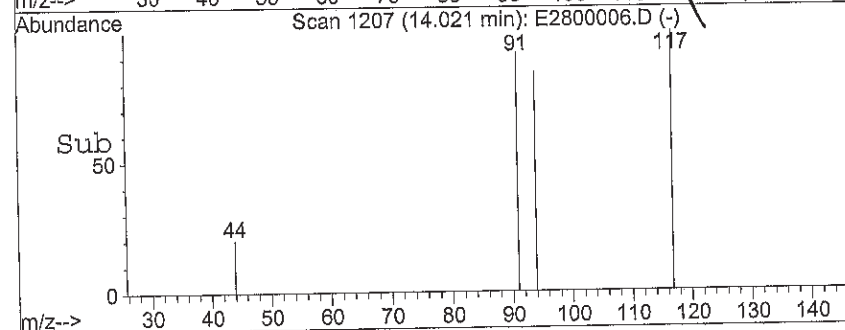
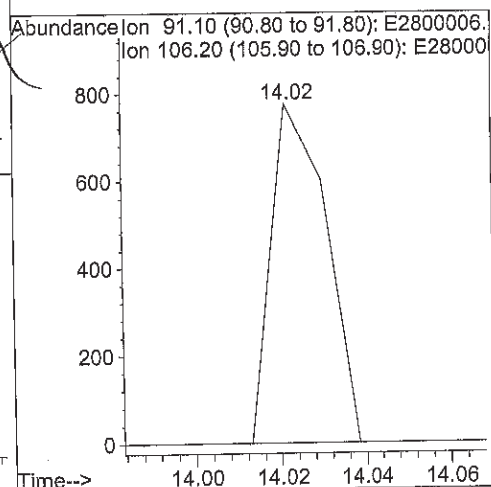
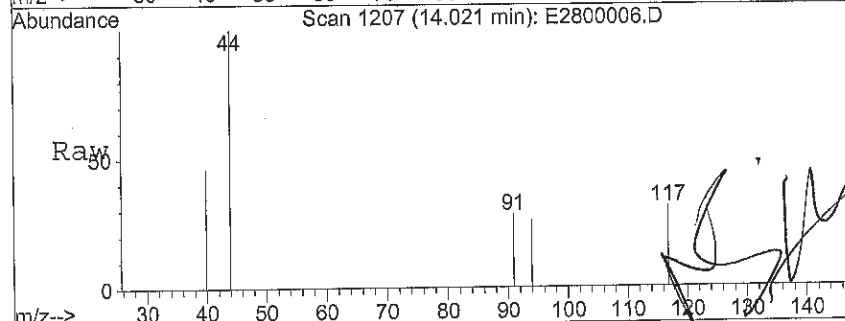
Tgt Ion: 112 Resp: 295
Ion Ratio Lower Upper
112 100
77 0.0 48.2 72.4#
114 0.0 24.4 36.6#





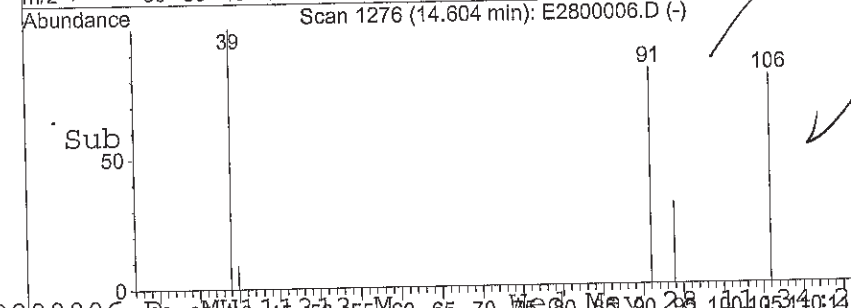
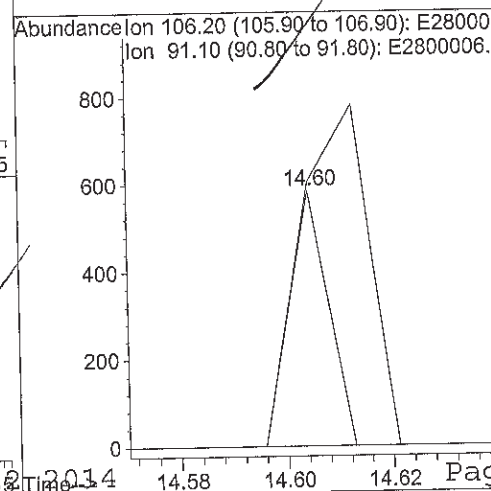
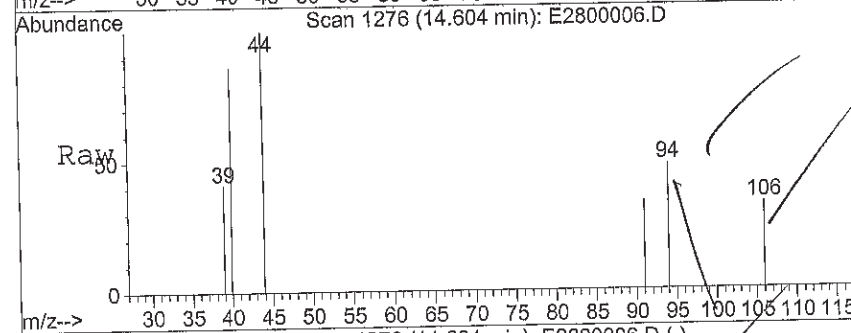
#51
Ethylbenzene
Concen: 0.03 ug/L
RT: 14.02 min Scan# 1207
Delta R.T. -0.00 min
Lab File: E2800006.D
Acq: 28 May 2014 10:47 am

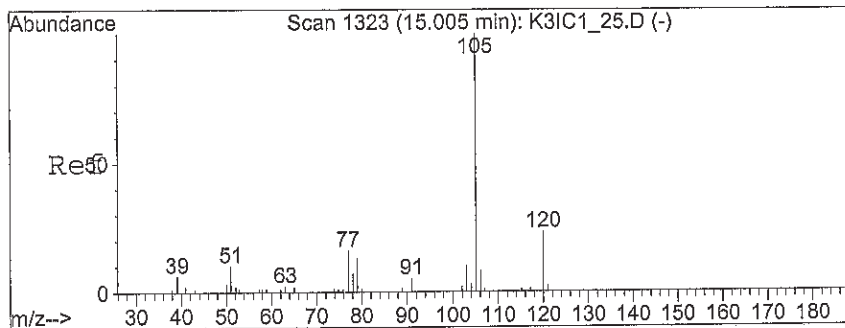
Tgt Ion: 91 Resp: 698
Ion Ratio Lower Upper
91 100
106 0.0 23.5 35.3#



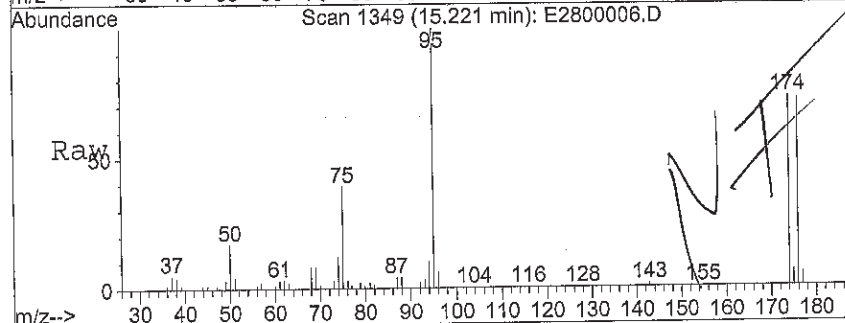
#53
o-Xylene
Concen: 0.04 ug/L
RT: 14.60 min Scan# 1276
Delta R.T. -0.01 min
Lab File: E2800006.D
Acq: 28 May 2014 10:47 am

Tgt Ion: 106 Resp: 296
Ion Ratio Lower Upper
106 100
91 237.2 179.0 268.6

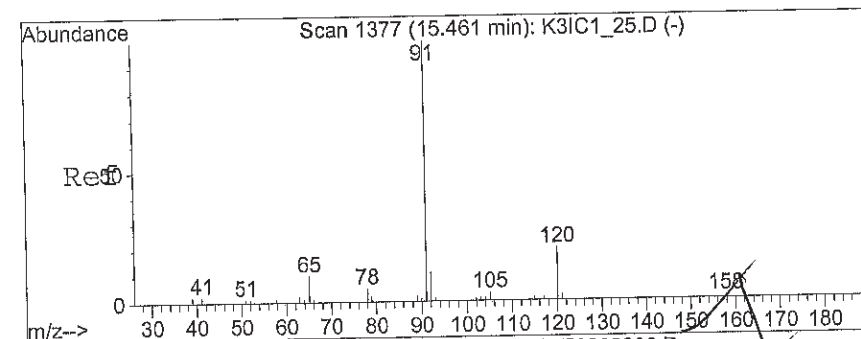
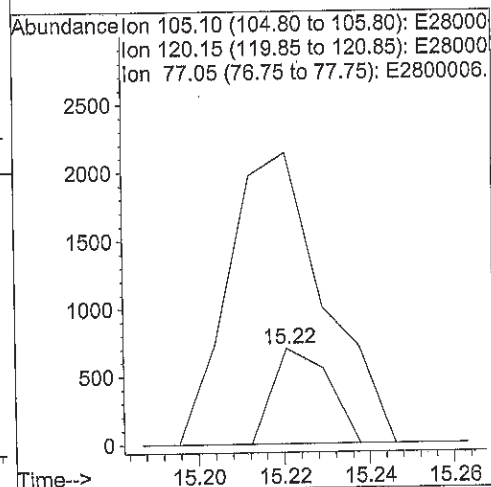
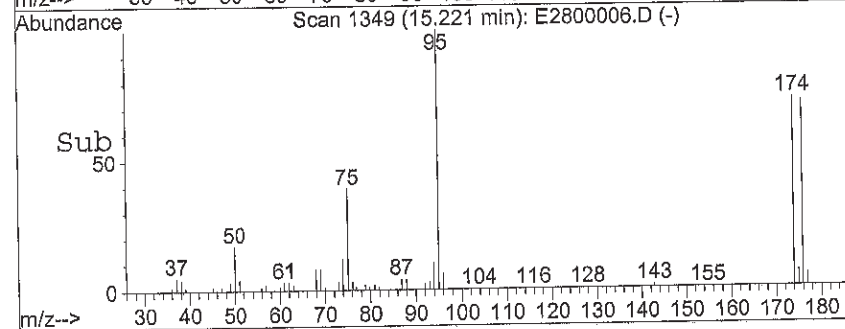




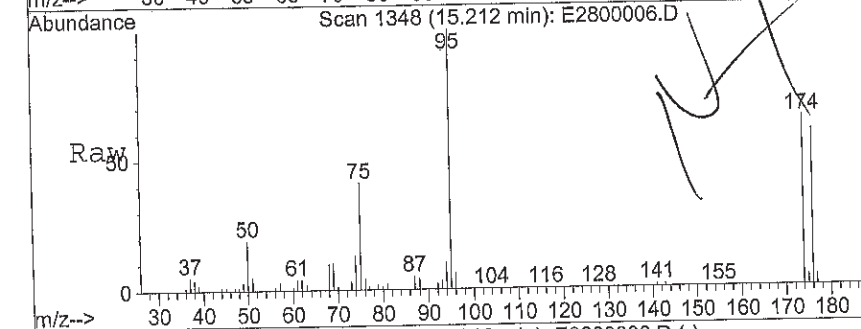
#56
Isopropylbenzene
Concen: 0.03 ug/L
RT: 15.22 min Scan# 1349
Delta R.T. 0.22 min
Lab File: E2800006.D
Acq: 28 May 2014 10:47 am



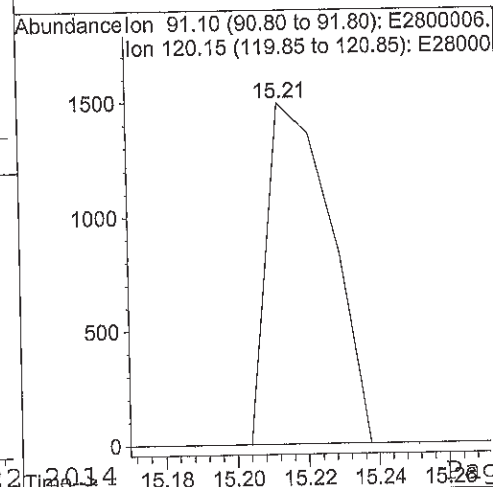
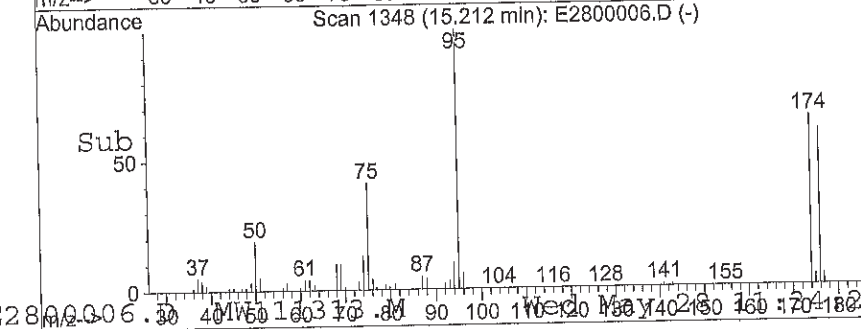
Tgt Ion: 105 Resp: 634
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 523.7 13.1 19.7#

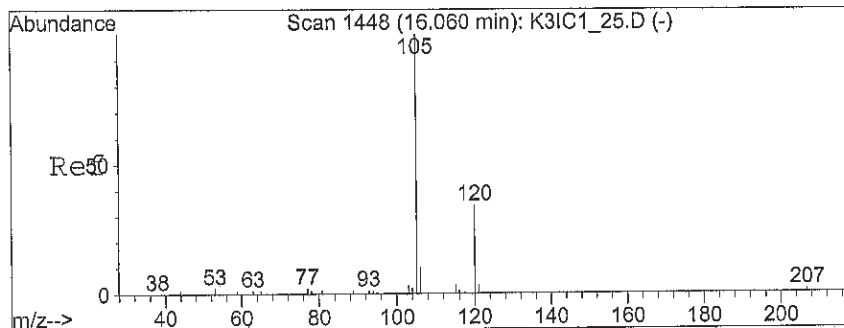


#62
n-Propylbenzene
Concen: 0.07 ug/L
RT: 15.21 min Scan# 1348
Delta R.T. -0.25 min
Lab File: E2800006.D
Acq: 28 May 2014 10:47 am



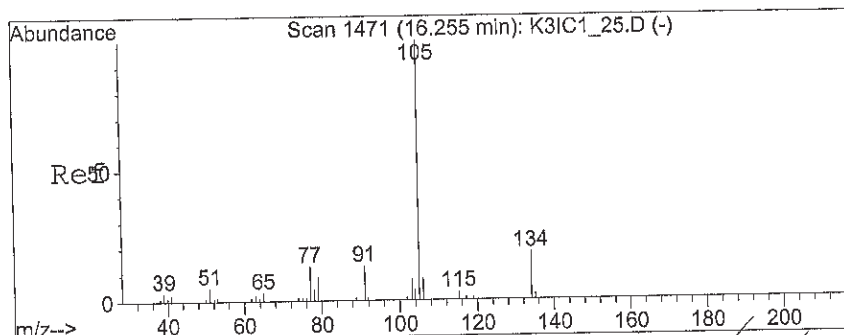
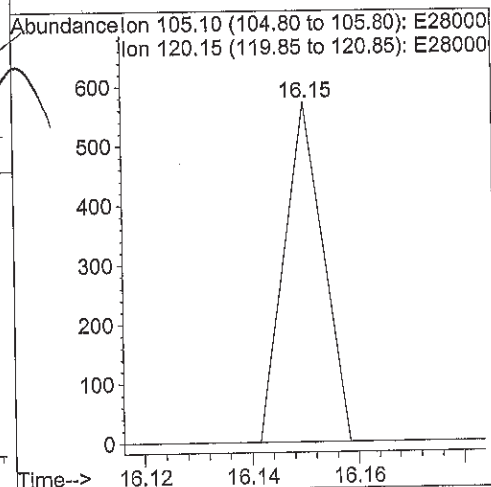
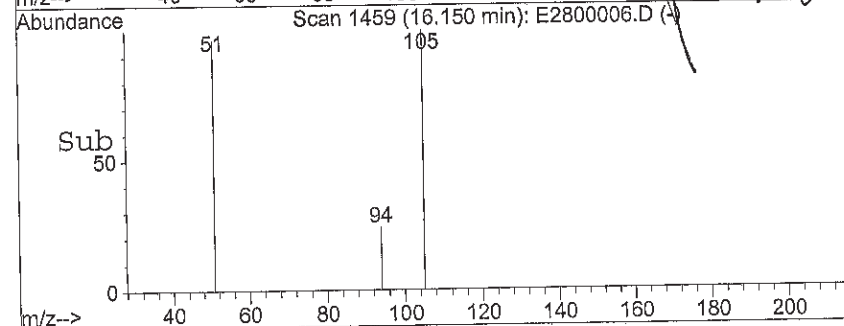
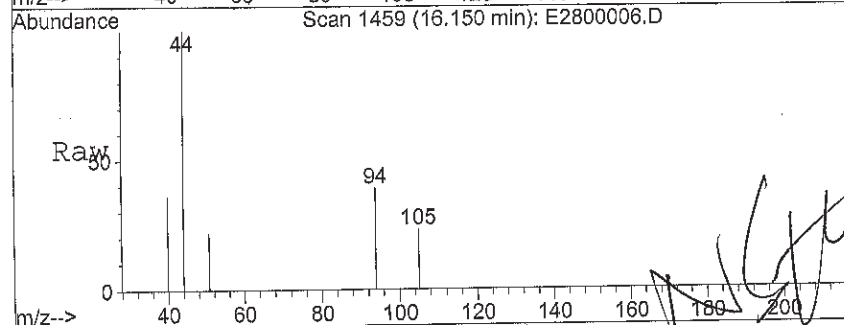
Tgt Ion: 91 Resp: 1863
Ion Ratio Lower Upper
91 100
120 0.0 16.1 24.1#





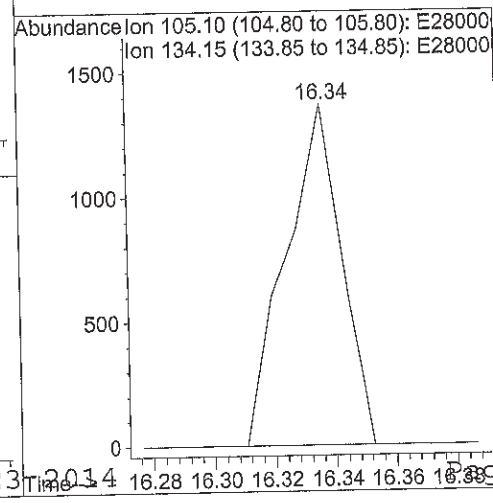
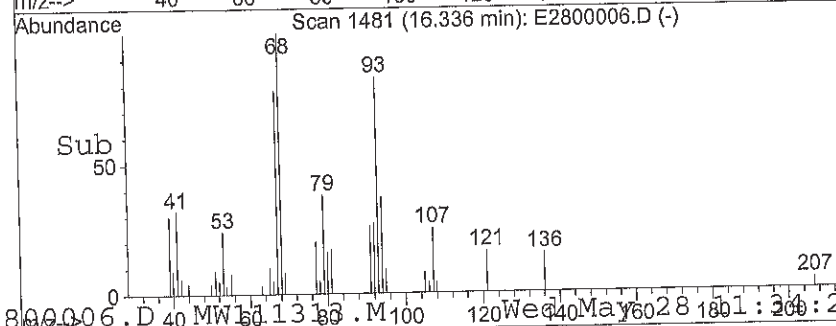
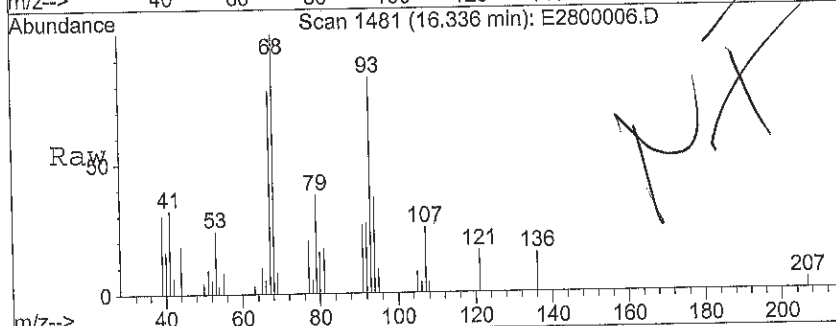
#67
 1,2,4-Trimethylbenzene
 Concen: 0.02 ug/L
 RT: 16.15 min Scan# 1459
 Delta R.T. 0.09 min
 Lab File: E2800006.D
 Acq: 28 May 2014 10:47 am

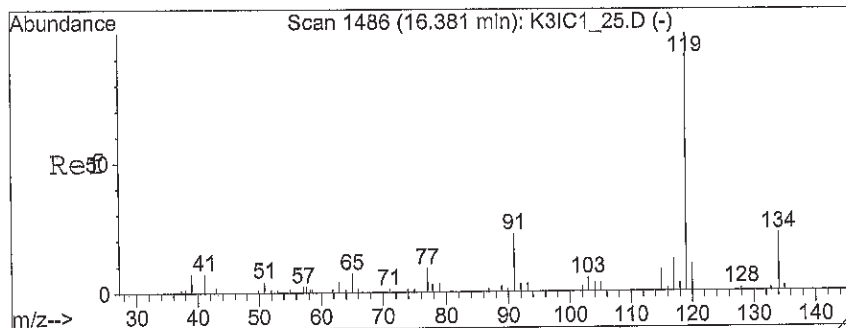
Tgt Ion:105 Resp: 290
 Ion Ratio Lower Upper
 105 100
 120 0.0 33.8 50.8#



#68
 sec-Butylbenzene
 Concen: 0.07 ug/L
 RT: 16.34 min Scan# 1481
 Delta R.T. 0.08 min
 Lab File: E2800006.D
 Acq: 28 May 2014 10:47 am

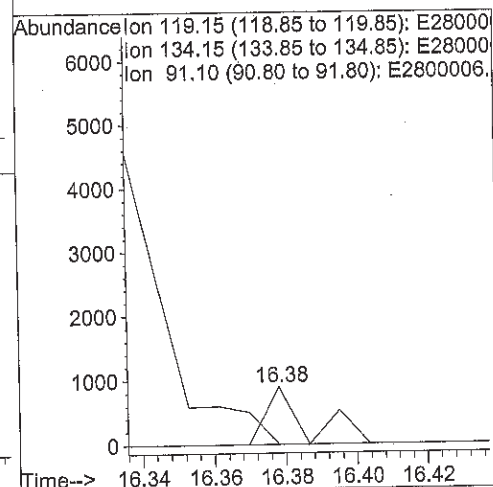
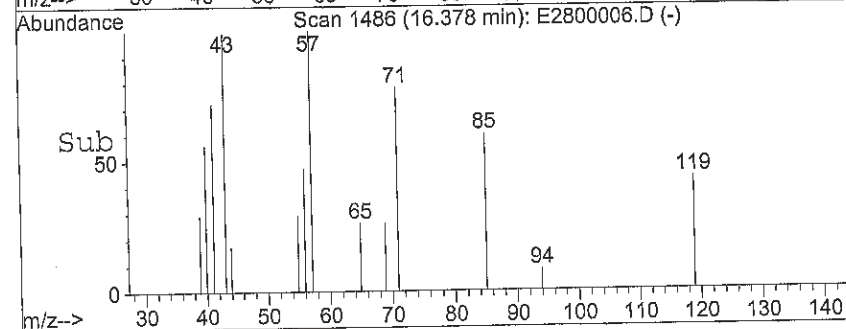
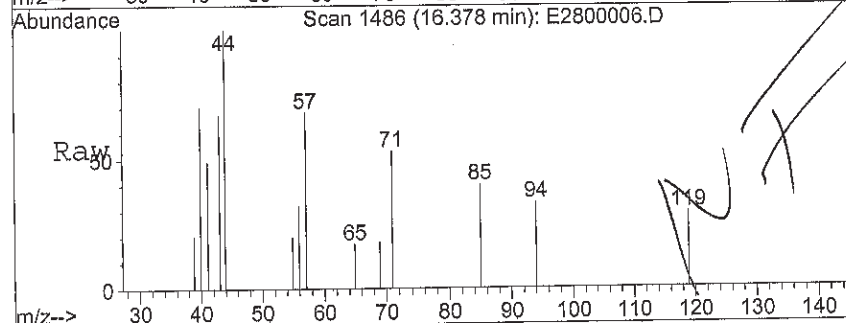
Tgt Ion:105 Resp: 1737
 Ion Ratio Lower Upper
 105 100
 134 0.0 13.0 19.6#





#69
 p-Isopropyltoluene
 Concen: 0.04 ug/L
 RT: 16.38 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: E2800006.D
 Acq: 28 May 2014 10:47 am

Tgt Ion: 119 Resp: 714
 Ion Ratio Lower Upper
 119 100
 134 0.0 17.4 26.2#
 91 0.0 19.6 29.4#



Data File : C:\HPCHEM\1\DATA\052814L3\E2800006.D
 Acq On : 28 May 2014 10:47 am
 Sample : 3E42801-05
 Misc : 100cc SVL-511-SA5D-SV-4.5-5.5
 MS Integration Params: rteint.p
 Quant Time: May 28 11:34 19114

Vial: 5
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1624445	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.92	117	1300399	12.50	ug/L	0.00
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	693251	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	464182	10.99	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	87.92%
3) Chloroform-d (SU6)	9.18	84	719640	11.87	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	94.96%
4) Methylene Chloride-d2 (SU5)	7.07	86	416017	11.74	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	93.92%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	459490	15.91	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	127.28%#
6) Benzene-d6 (SU7)	9.92	84	1374808	10.79	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	86.32%
8) Toluene-d8 (SU3)	12.21	98	1455888	11.80	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.40%
9) 4-Bromofluorobenzene (SU4)	15.22	95	697818	13.70	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	109.60%

Target Compounds

Qvalue

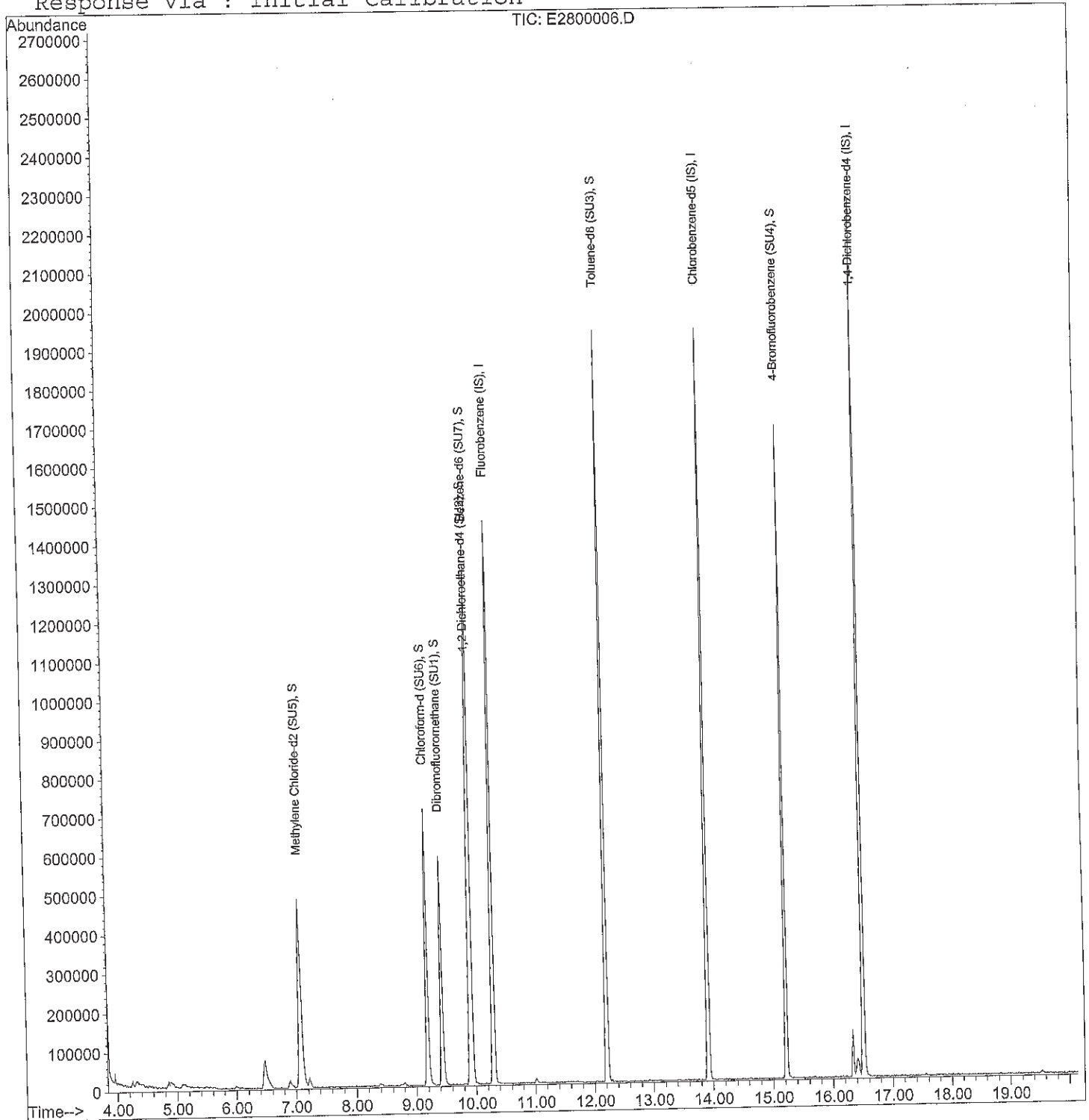
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800006.D
 Acq On : 28 May 2014 10:47 am
 Sample : 3E42801-05
 Misc : 100cc SVL-511-SA5D-SV-4.5-5.5
 MS Integration Params: rteint.p
 Quant Time: May 28 11:34 19114

Vial: 5
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052814L3\E2800007.D

Vial: 6

Acq On : 28 May 2014 11:18 am

Operator: DN

Sample : 3E42801-06

Inst : GC/MS Ins

Misc : 100cc SVL-511-SA5D-SV-9.5-10.5

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 12:19 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1784446	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1395228	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	722995	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	503819	11.32	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	90.5%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	471106	11.14	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	89.12%
39) Toluene-d8 (SU3)	12.20	98	1572941	12.09	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.72%
58) 4-Bromofluorobenzene (SU4)	15.22	95	748409	13.12	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	104.96%

Target Compounds

					Qvalue	
3) (F12) Dichlorodifluorometh	4.09	85	811	0.19	ug/L #	44
4) Chloromethane	4.40	50	3087	-0.19	ug/L #	74
6) Bromomethane	5.09	96	5625	1.09	ug/L #	61
7) Chloroethane	5.23	64	2126	2.12	ug/L #	32
9) (F113) 1,1,2-Trichloro-tri	6.37	151	761	0.22	ug/L #	0.10044
11) Acetone	6.45	58	5598	3.03	ug/L #	94
12) (IPA) Leak Check Compound	6.47	45	181212	845.10	ug/L #	83
13) Carbon disulfide	6.84	76	269	0.02	ug/L #	76
14) Methylene Chloride	7.07	84	6120	1.25	ug/L #	1
15) (TBA) tert-Butanol	6.91	59	1057	3.47	ug/L #	77
24) Chloroform	9.22	83	780	0.08	ug/L #	18
31) Benzene	9.92	78	9348	0.56	ug/L #	79
32) 1,2-Dichloroethane	9.92	62	6673	1.12	ug/L #	1
40) (MIBK) 4-Methyl-2-Pentanone	12.19	43	8174	2.94	ug/L #	100
41) Toluene	12.29	91	3040	0.16	ug/L #	0.00377
46) 2-Hexanone	12.94	43	3004	0.98	ug/L #	37
51) Ethylbenzene	14.14	91	2182	0.10	ug/L #	97
52) m,p-Xylenes	14.14	106	682	0.09	ug/L #	0.00139
54) Styrene	14.63	104	2622	-0.63	ug/L #	54
56) Isopropylbenzene	15.20	105	313	0.02	ug/L #	1
57) 1,2,3-Trichloropropane	15.32	75	255	0.04	ug/L #	36
62) n-Propylbenzene	15.45	91	285	0.01	ug/L #	56

(#)= qualifier out of range (m) = manual integration

E2800007.D MW111313.M

Wed May 28 12:19:30 2014

Page 1

Data File : C:\HPCHEM\1\DATA\052814L3\E2800007.D

Vial: 6

Acq On : 28 May 2014 11:18 am

Operator: DN

Sample : 3E42801-06

Inst : GC/MS Ins

Misc : 100cc SVL-511-SA5D-SV-9.5-10.5

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 12:19 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63) 2-Chlorotoluene	15.45	91	285	0.02	ug/L #	45
68) sec-Butylbenzene	16.33	105	2110	0.09	ug/L #	62
69) p-Isopropyltoluene	16.38	119	1118	0.06	ug/L #	52

(#) = qualifier out of range (m) = manual integration

E2800007.D MW111313.M

Wed May 28 12:19:31 2014

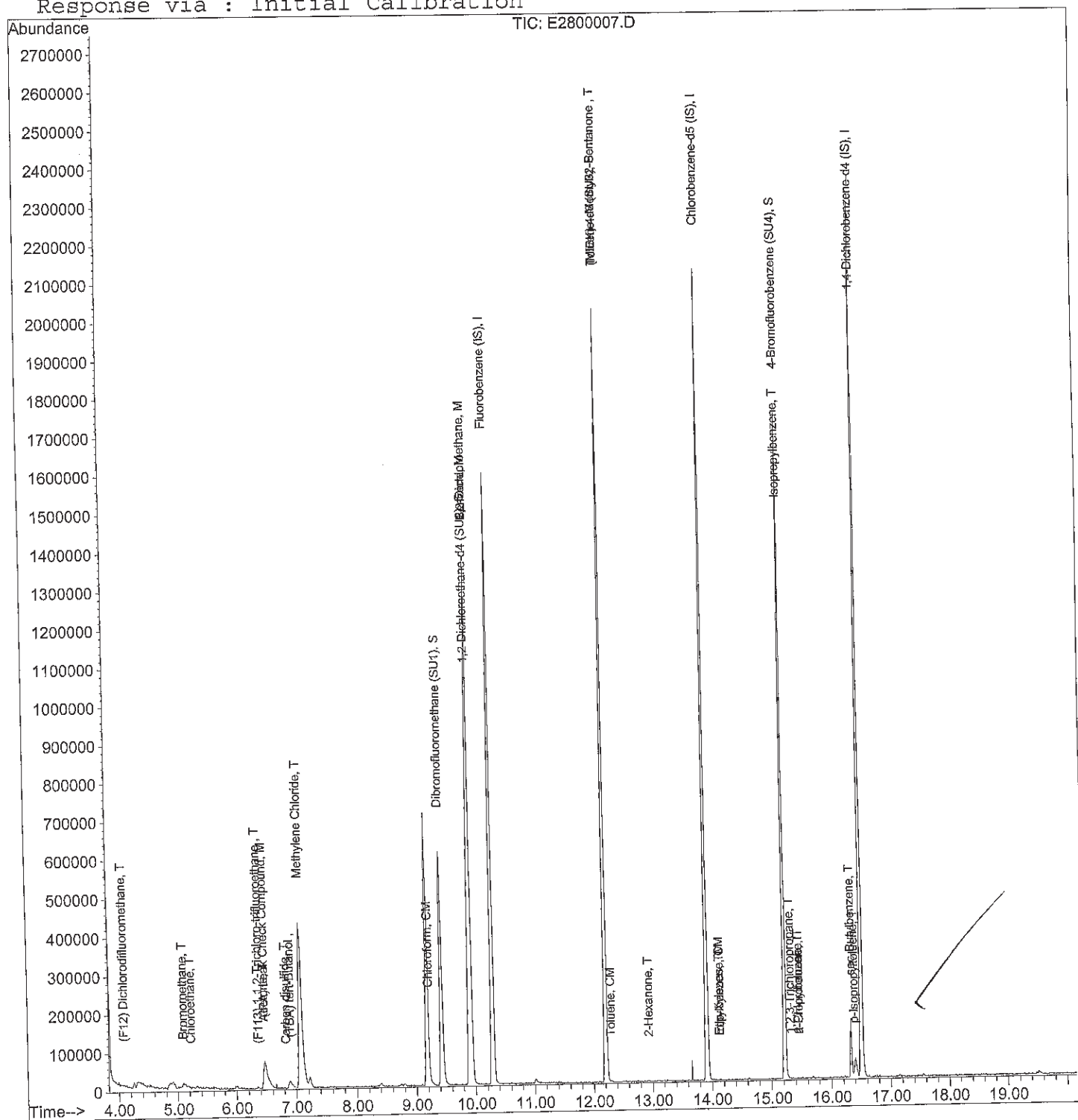
Quantitation Report

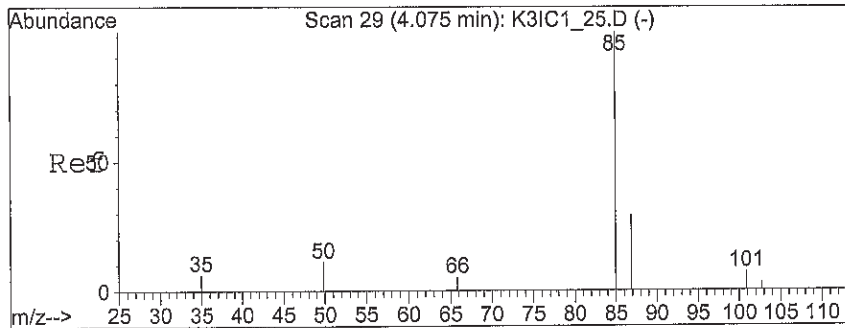
Data File : C:\HPCHEM\1\DATA\052814L3\E2800007.D
 Acq On : 28 May 2014 11:18 am
 Sample : 3E42801-06
 Misc : 100cc SVL-511-SA5D-SV-9.5-10.5
 MS Integration Params: rteint.p
 Quant Time: May 28 12:19 19114

Vial: 6
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

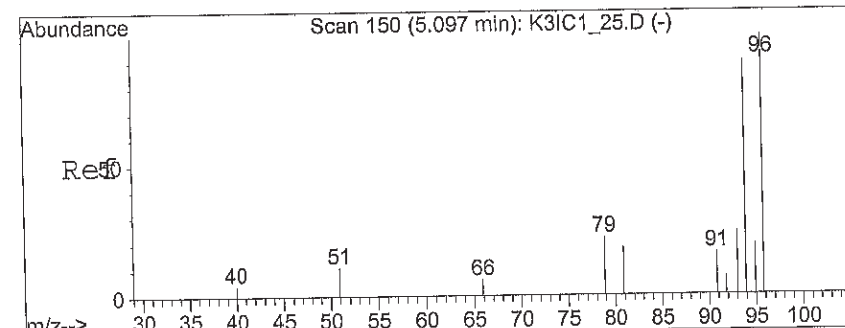
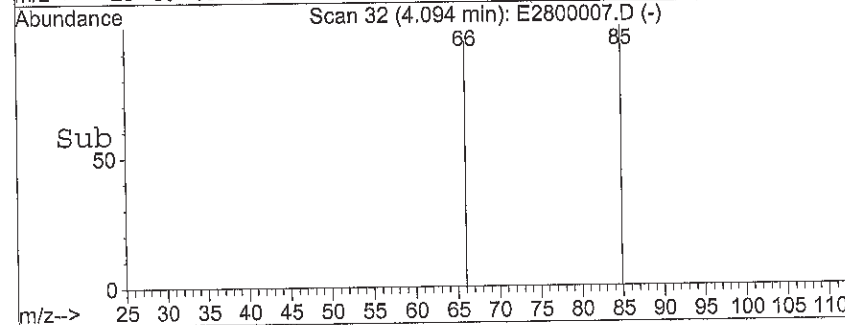
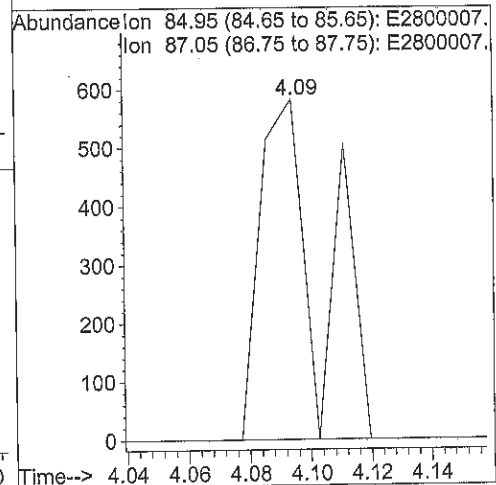
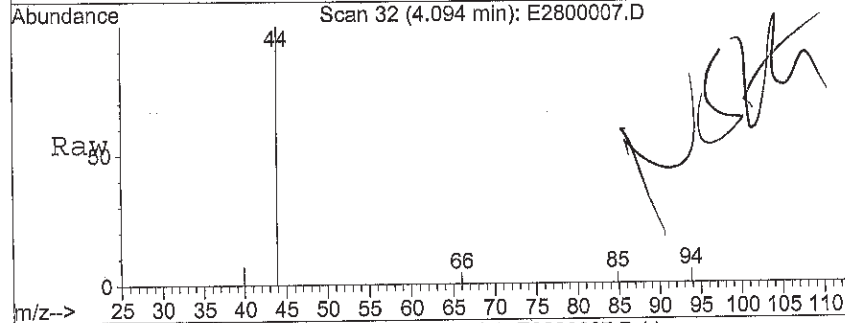
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration





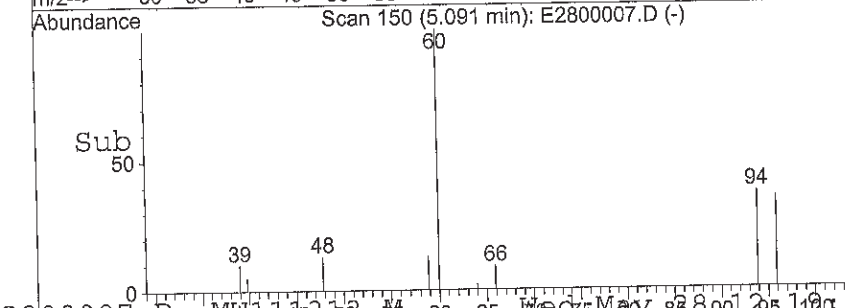
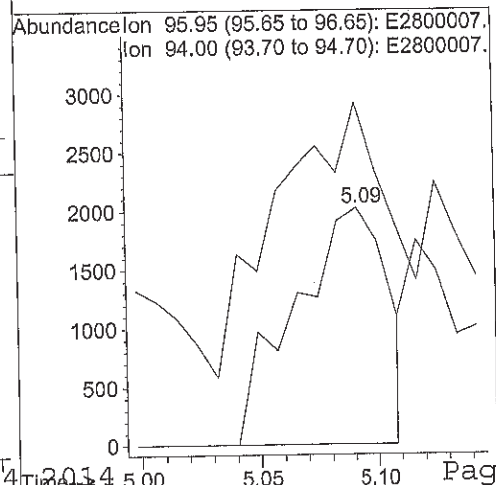
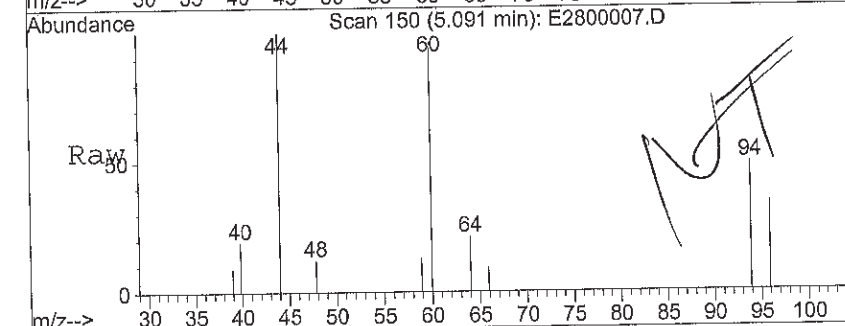
#3
(F12) Dichlorodifluoromethane
Concen: 0.19 ug/L
RT: 4.09 min Scan# 32
Delta R.T. 0.02 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

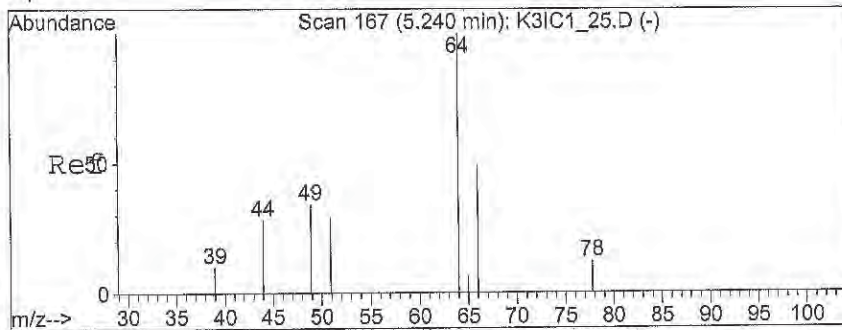
Tgt Ion: 85 Resp: 811
Ion Ratio Lower Upper
85 100
87 0.0 24.6 37.0#



#6
Bromomethane
Concen: 1.09 ug/L
RT: 5.09 min Scan# 150
Delta R.T. -0.01 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

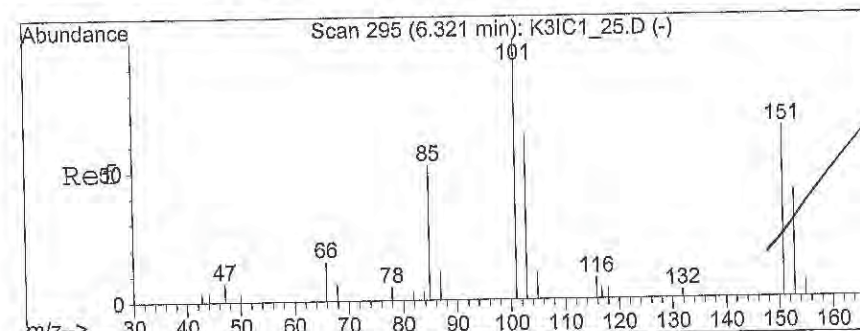
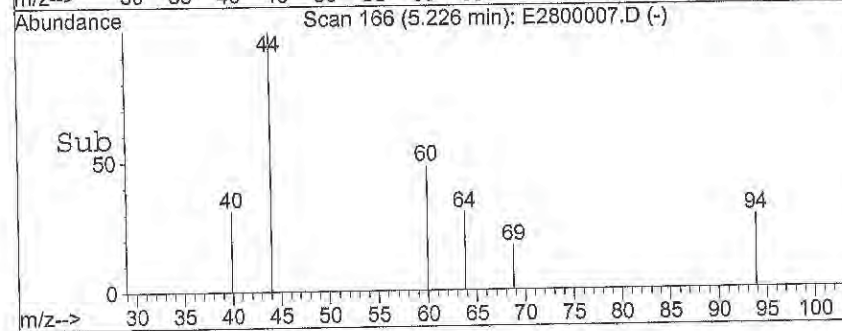
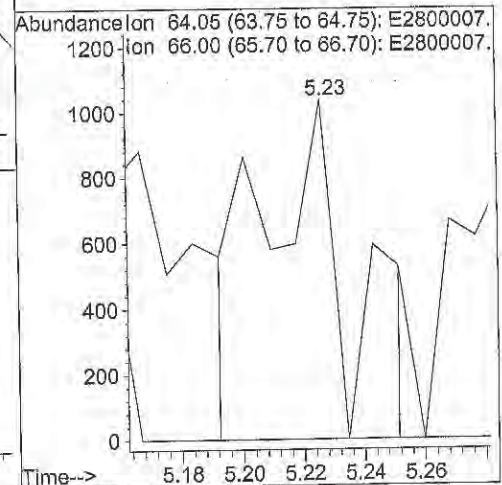
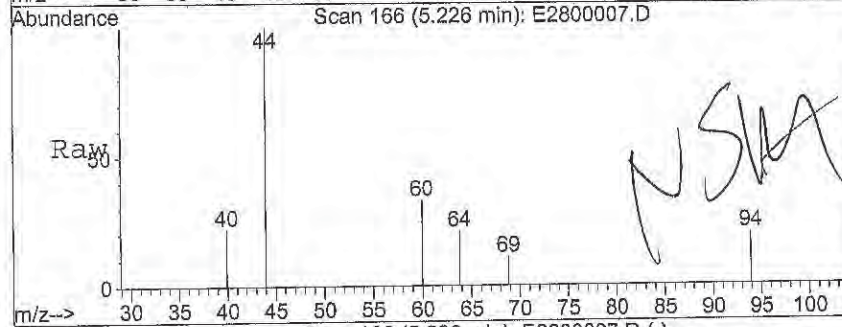
Tgt Ion: 96 Resp: 5625
Ion Ratio Lower Upper
96 100
94 170.9 101.0 151.4#





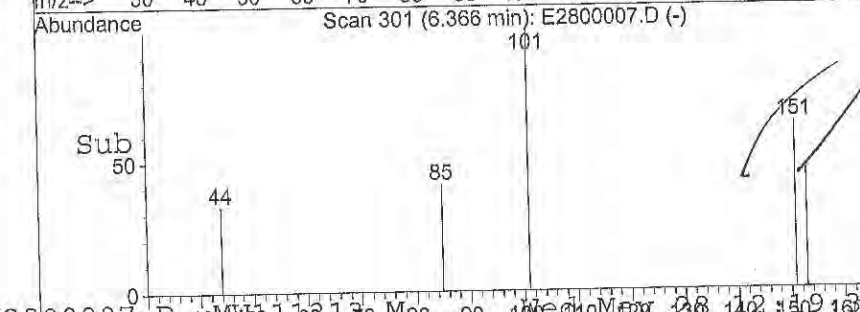
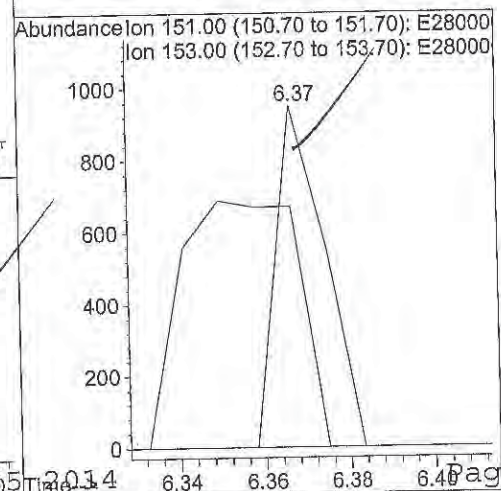
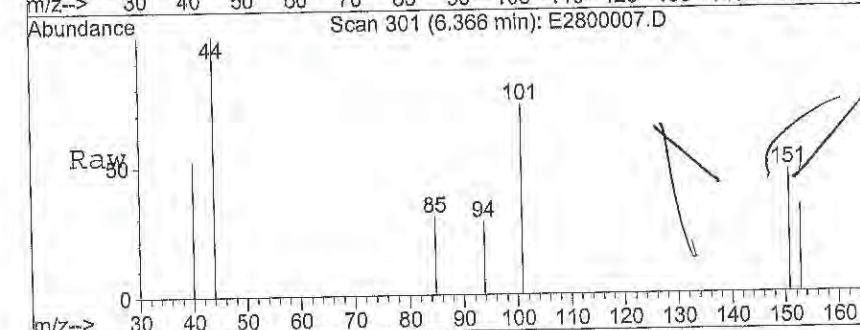
#7
 Chloroethane
 Concen: 2.12 ug/L
 RT: 5.23 min Scan# 166
 Delta R.T. -0.01 min
 Lab File: E2800007.D
 Acq: 28 May 2014 11:18 am

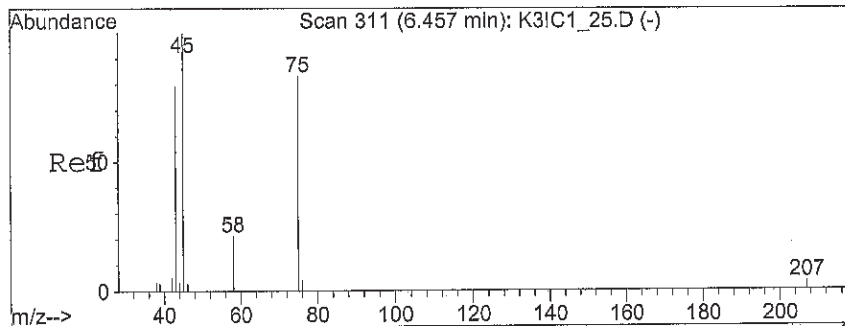
Tgt Ion: 64 Resp: 2126
 Ion Ratio Lower Upper
 64 100
 66 0.0 35.4 53.0#



#9
 (F113) 1,1,2-Trichloro-trifluor
 Concen: 0.22 ug/L
 RT: 6.37 min Scan# 301
 Delta R.T. 0.05 min
 Lab File: E2800007.D
 Acq: 28 May 2014 11:18 am

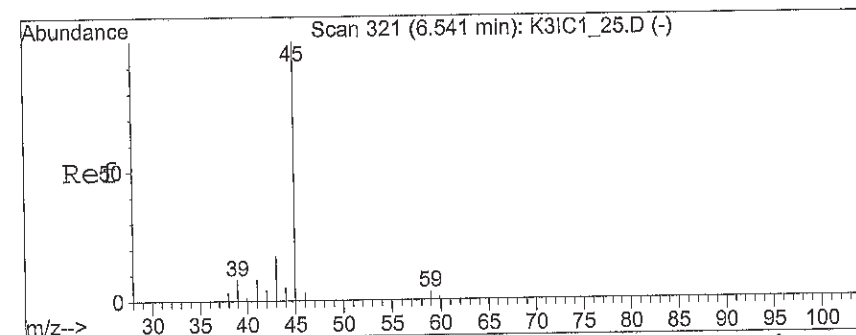
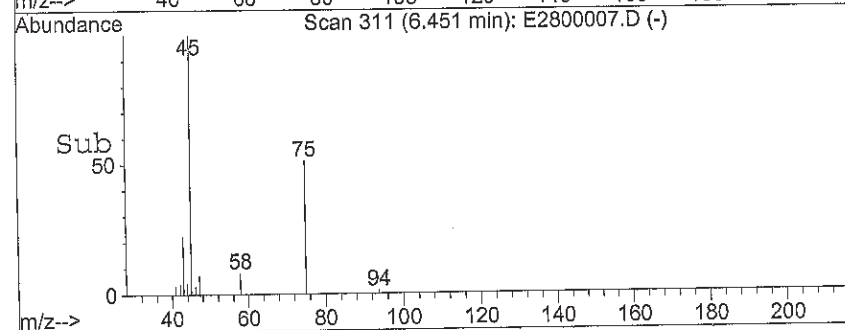
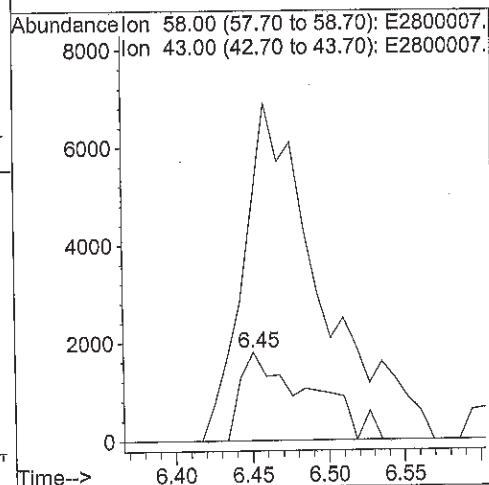
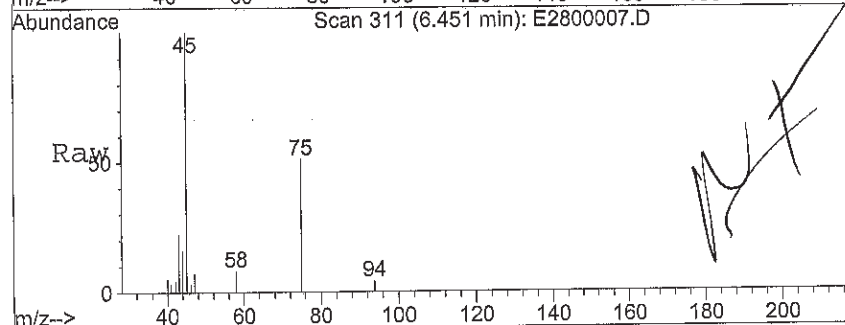
Tgt Ion: 151 Resp: 761
 Ion Ratio Lower Upper
 151 100
 153 172.5 49.6 74.4#





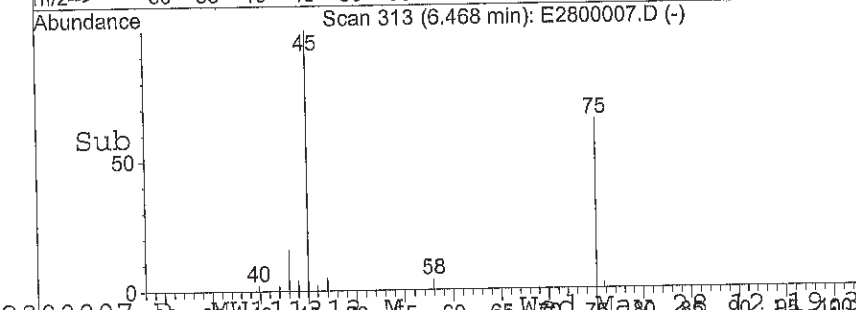
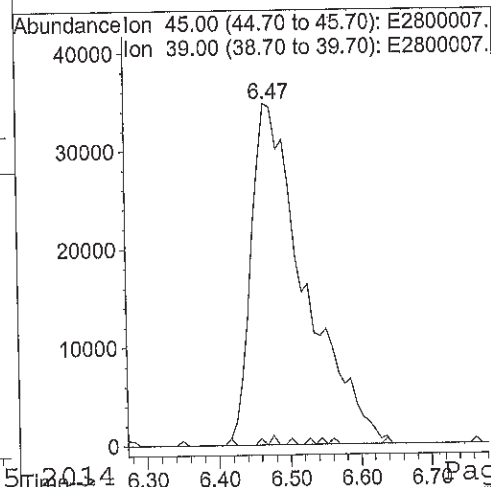
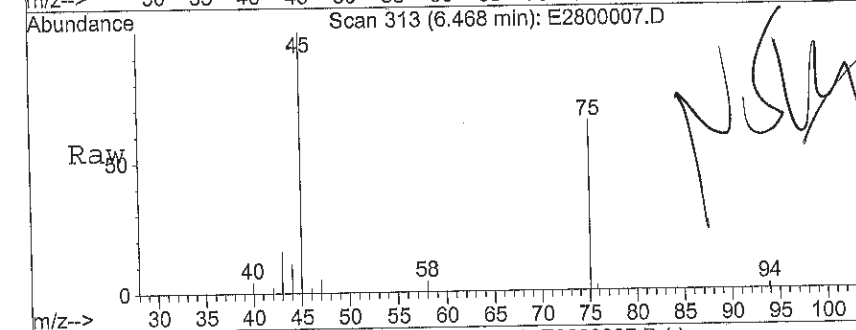
#11
Acetone
Concen: 3.03 ug/L
RT: 6.45 min Scan# 311
Delta R.T. -0.01 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

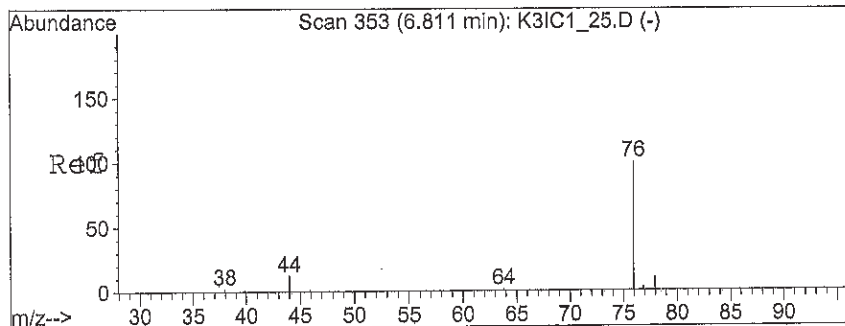
Tgt Ion: 58 Resp: 5598
Ion Ratio Lower Upper
58 100
43 435.1 360.9 541.3



#12
(IPA) Leak Check Compound
Concen: 845.10 ug/L
RT: 6.47 min Scan# 313
Delta R.T. -0.07 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

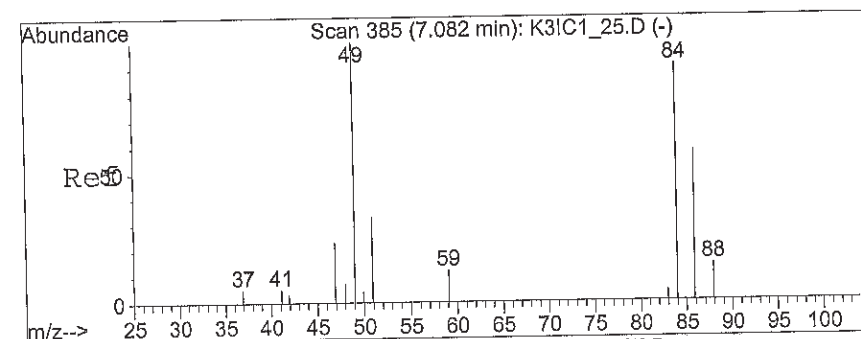
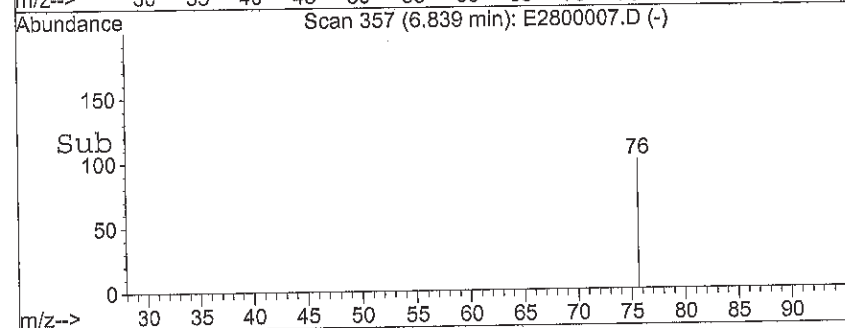
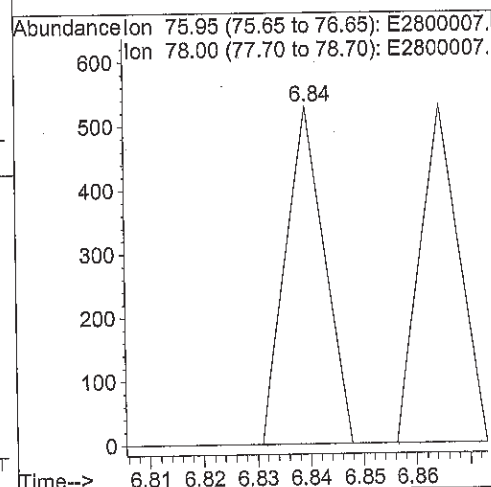
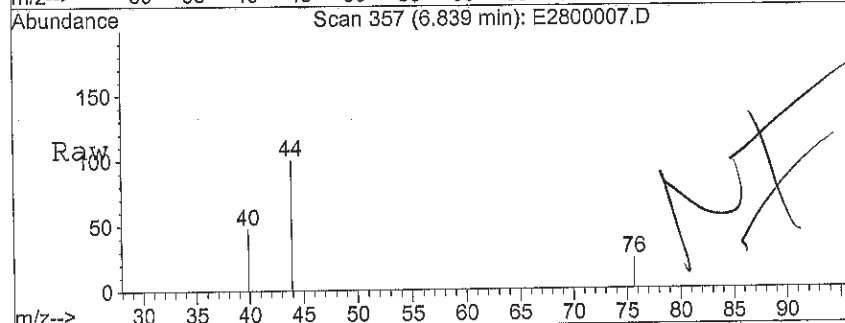
Tgt Ion: 45 Resp: 181212
Ion Ratio Lower Upper
45 100
39 0.3 4.9 7.3#





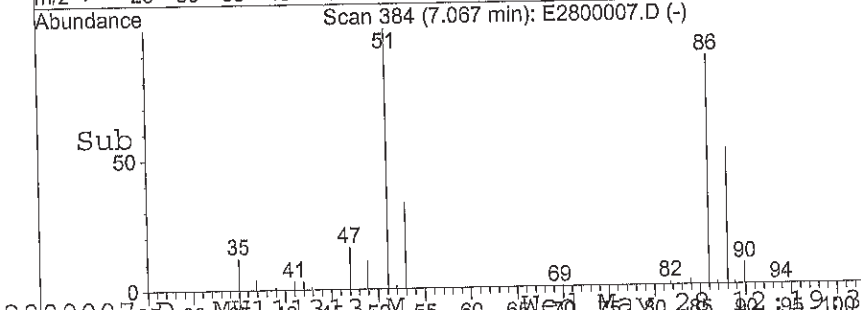
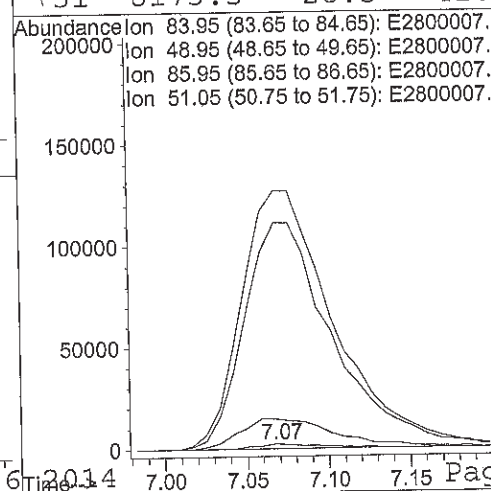
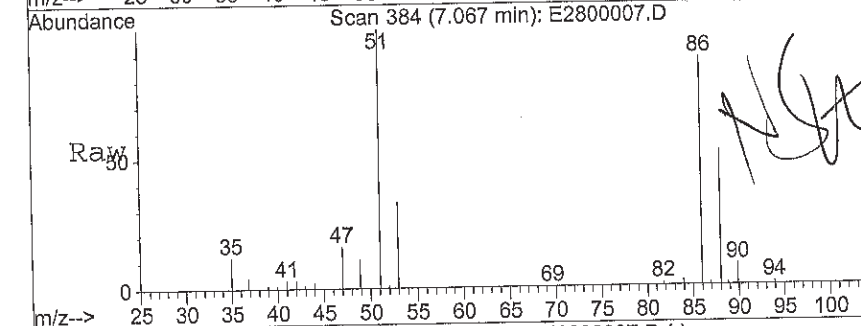
#13
Carbon disulfide
Concen: 0.02 ug/L
RT: 6.84 min Scan# 357
Delta R.T. 0.03 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

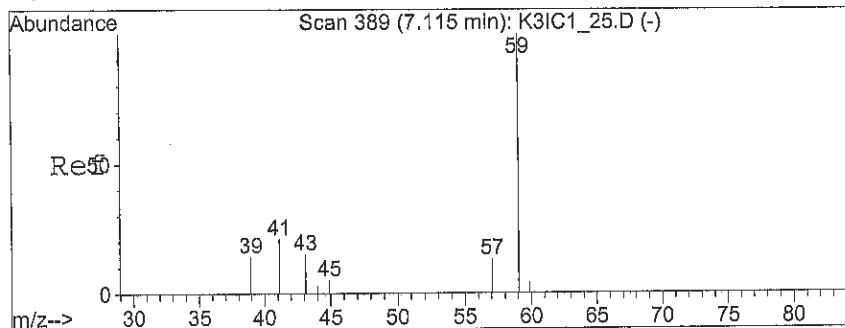
Tgt Ion: 76 Resp: 269
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#14
Methylene Chloride
Concen: 1.25 ug/L
RT: 7.07 min Scan# 384
Delta R.T. -0.01 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

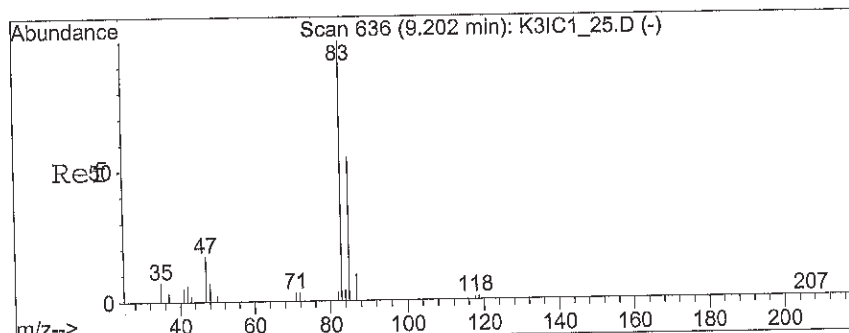
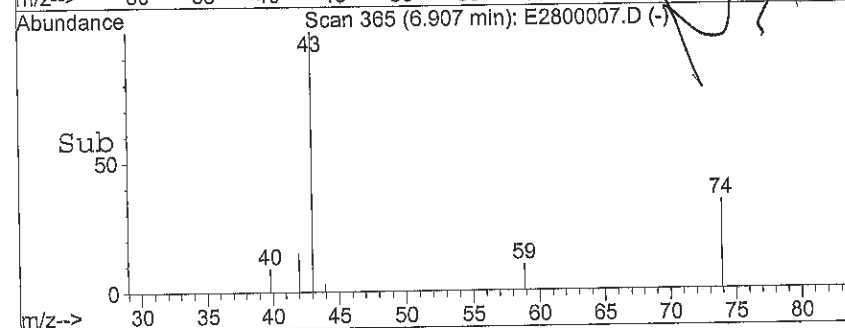
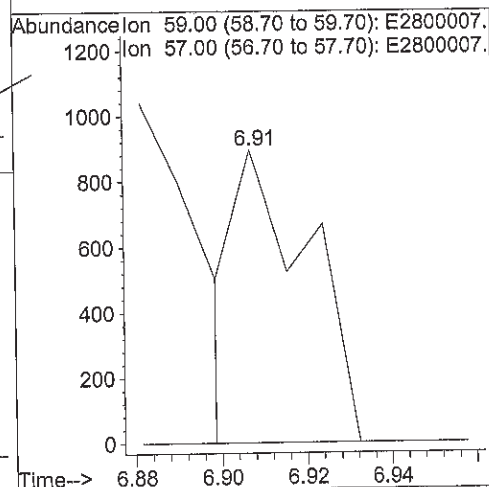
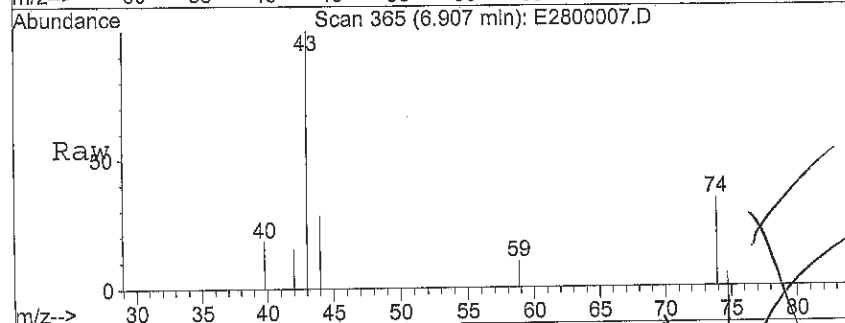
Tgt Ion: 84 Resp: 6120
Ion Ratio Lower Upper
84 100
49 975.8 89.8 134.6#
86 6888.9 51.1 76.7#
51 8173.3 28.5 42.7#





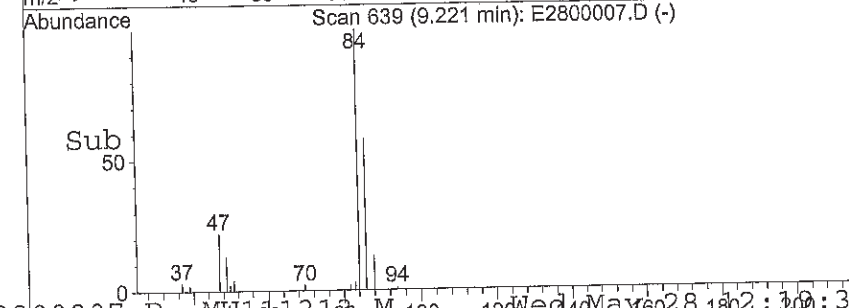
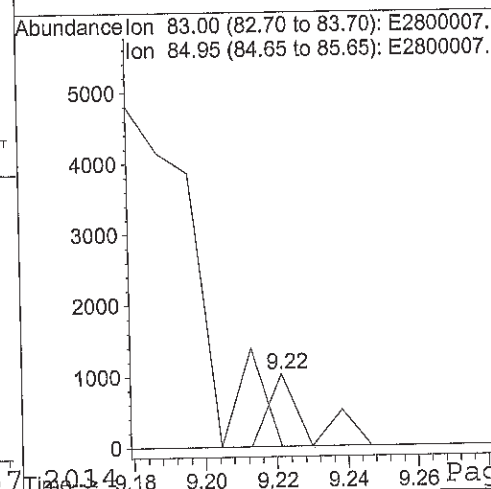
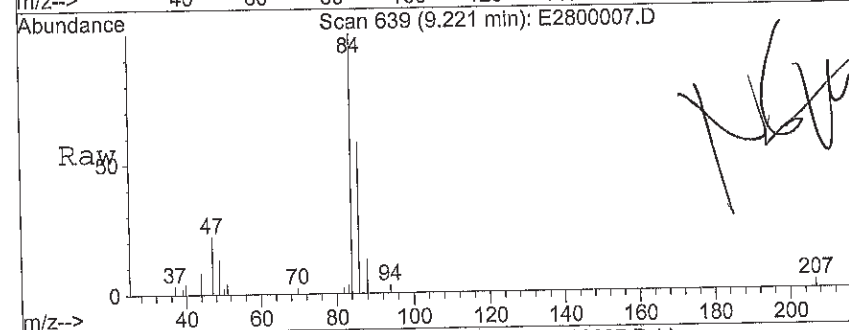
#15
(TBA) tert-Butanol
Concen: 3.47 ug/L
RT: 6.91 min Scan# 365
Delta R.T. -0.21 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

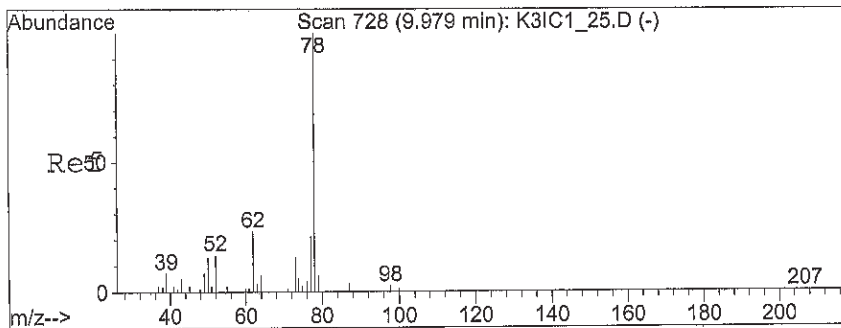
Tgt Ion: 59 Resp: 1057
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#



#24
Chloroform
Concen: 0.08 ug/L
RT: 9.22 min Scan# 639
Delta R.T. 0.02 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

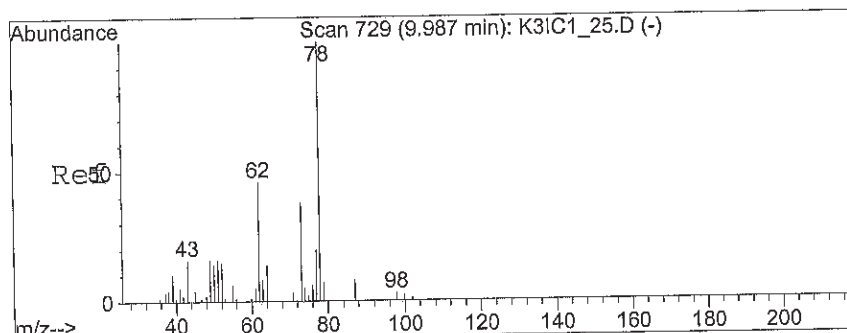
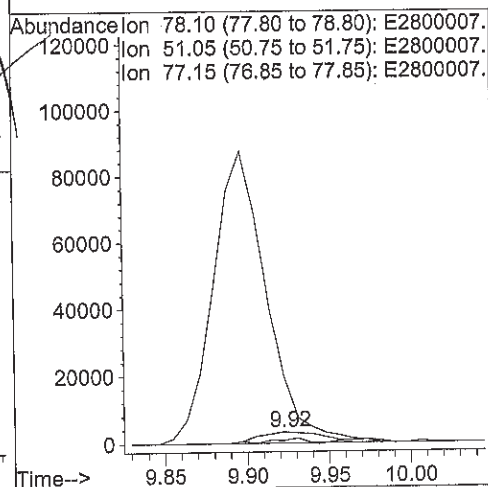
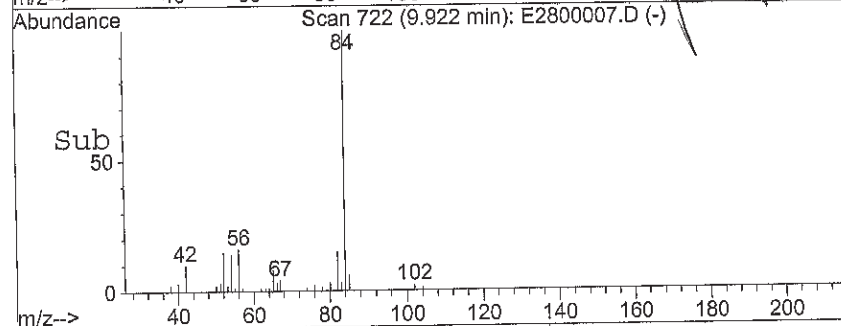
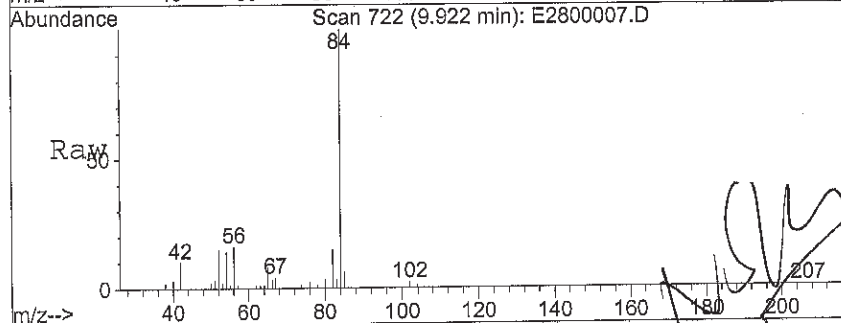
Tgt Ion: 83 Resp: 780
Ion Ratio Lower Upper
83 100
85 0.0 51.8 77.6#





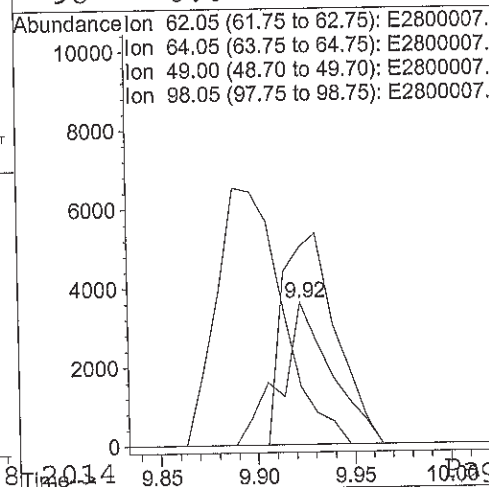
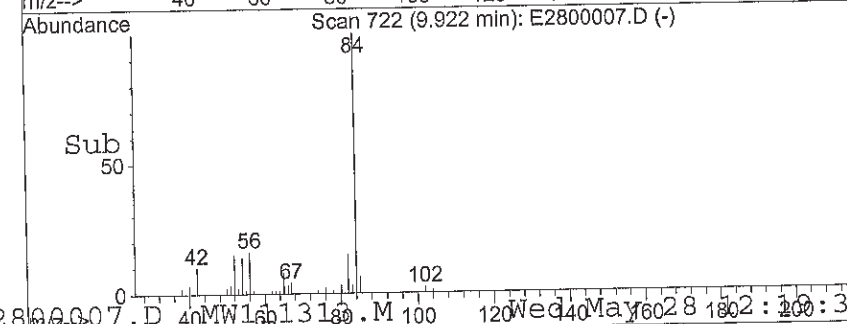
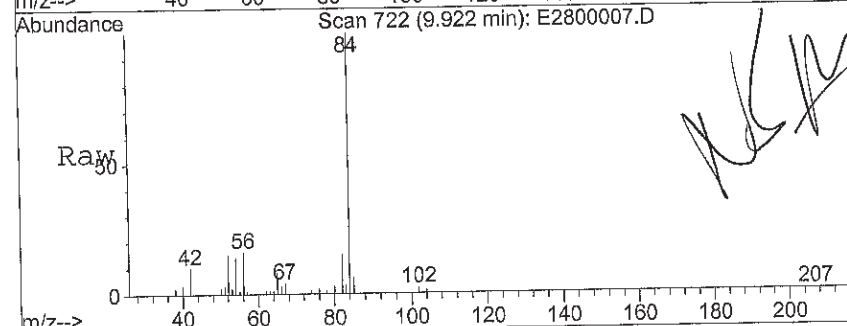
#31
Benzene
Concen: 0.56 ug/L
RT: 9.92 min Scan# 722
Delta R.T. -0.06 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

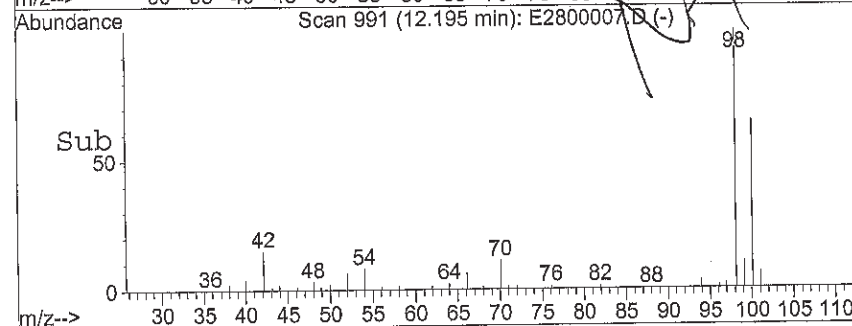
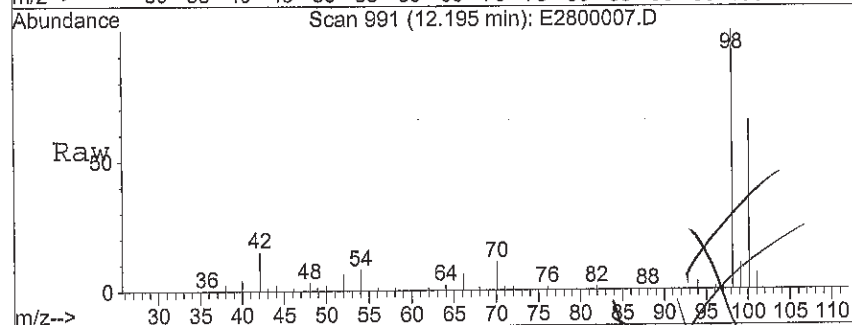
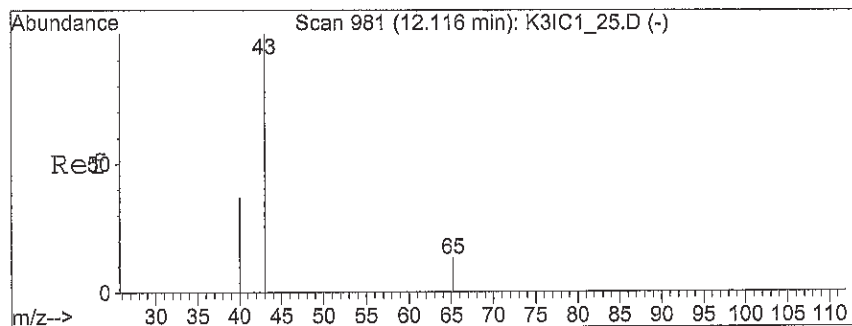
Tgt Ion: 78 Resp: 9348
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 18.7 16.6 24.8



#32
1,2-Dichloroethane
Concen: 1.12 ug/L
RT: 9.92 min Scan# 722
Delta R.T. -0.06 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

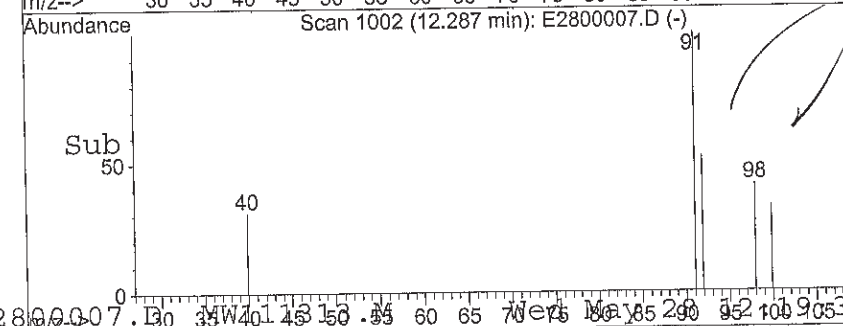
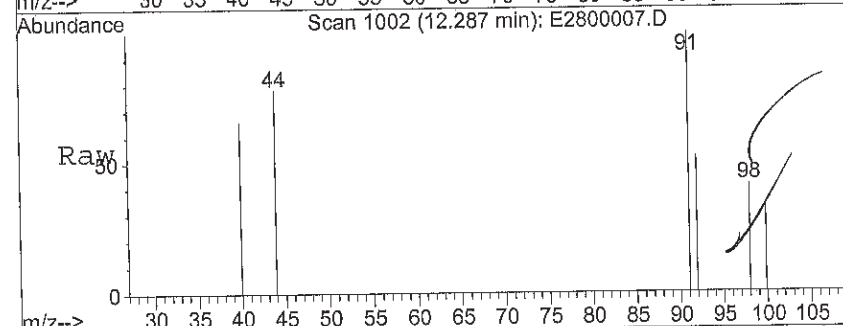
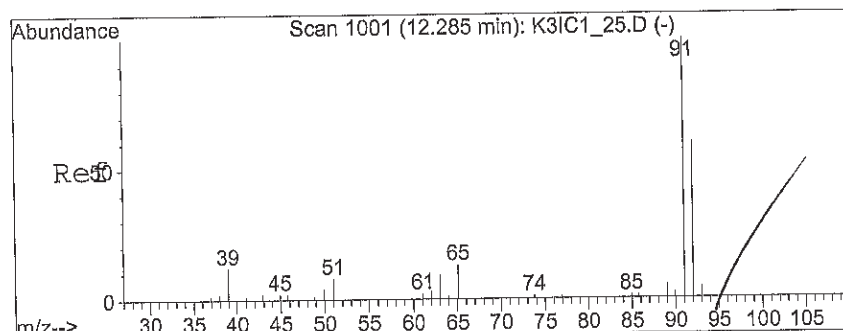
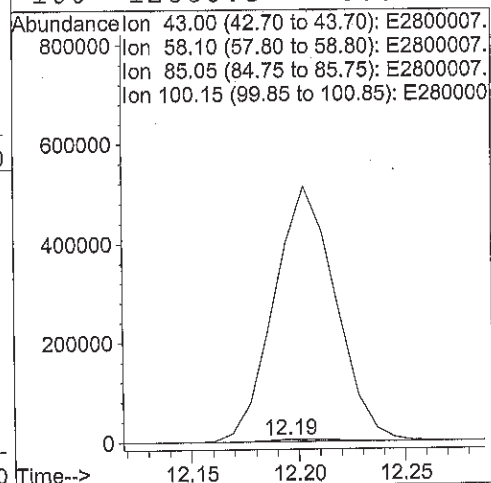
Tgt Ion: 62 Resp: 6673
Ion Ratio Lower Upper
62 100
64 155.2 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#





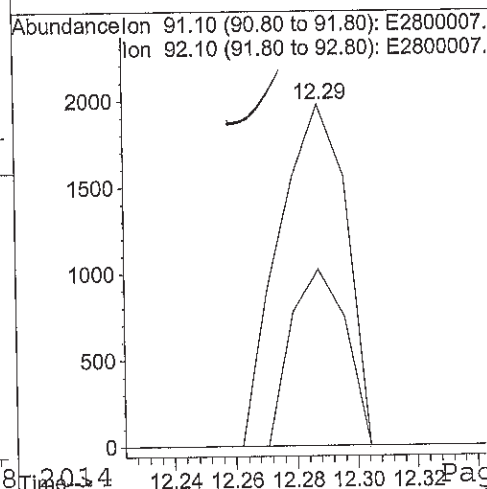
#40
(MIBK) 4-Methyl-2-Pentanone
Concen: 2.94 ug/L
RT: 12.19 min Scan# 991
Delta R.T. 0.08 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

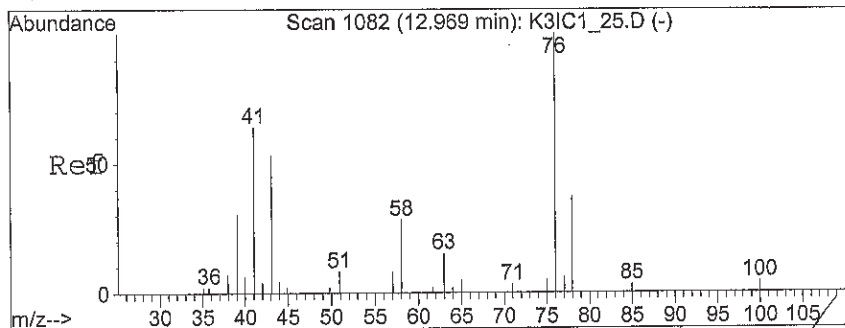
Tgt Ion: 43 Resp: 8174
Ion Ratio Lower Upper
43 100
58 131.0 0.0 0.0#
85 0.0 0.0 0.0
100 12660.8 0.0 0.0#



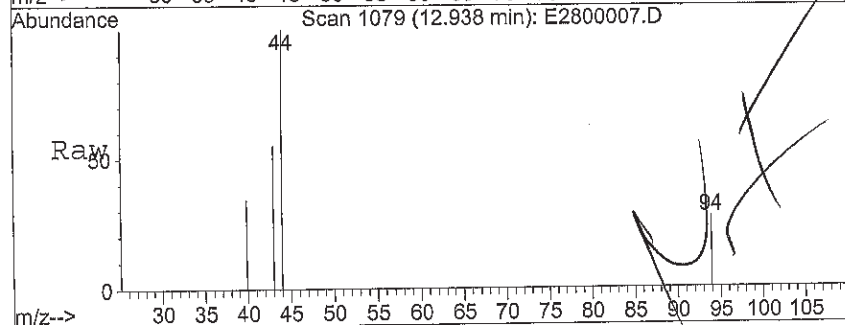
#41
Toluene
Concen: 0.16 ug/L
RT: 12.29 min Scan# 1002
Delta R.T. 0.00 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

Tgt Ion: 91 Resp: 3040
Ion Ratio Lower Upper
91 100
92 42.3 47.4 71.0#

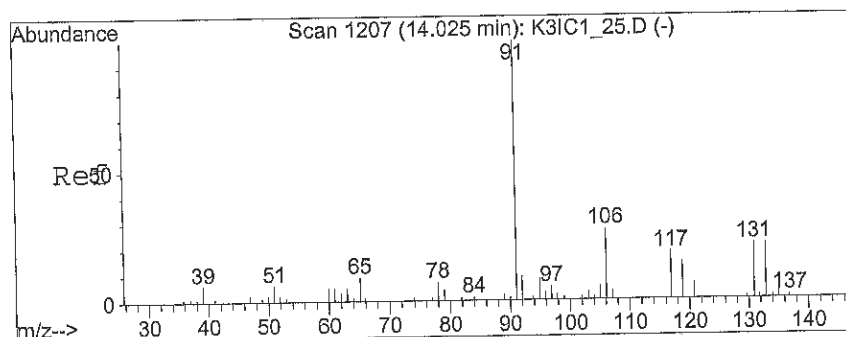
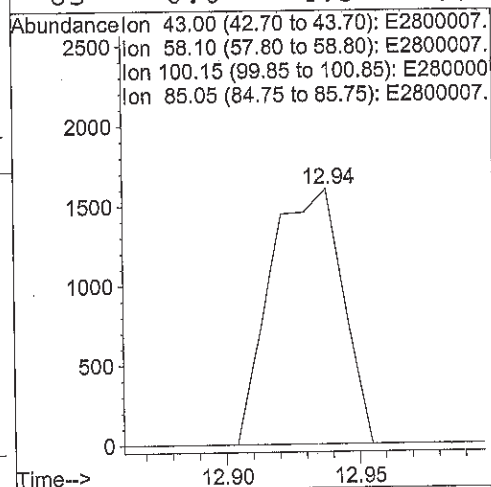
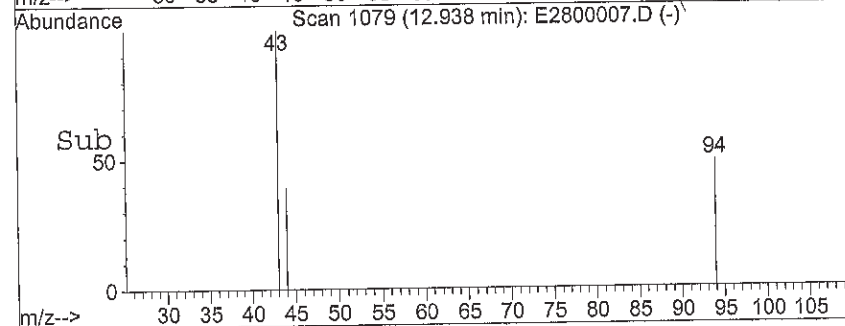




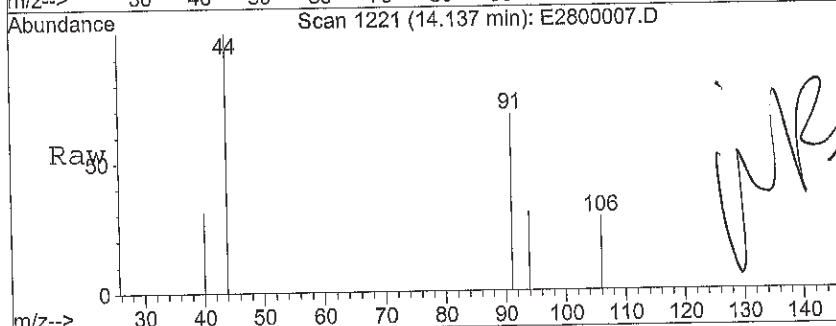
#46
2-Hexanone
Concen: 0.98 ug/L
RT: 12.94 min Scan# 1079
Delta R.T. -0.03 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am



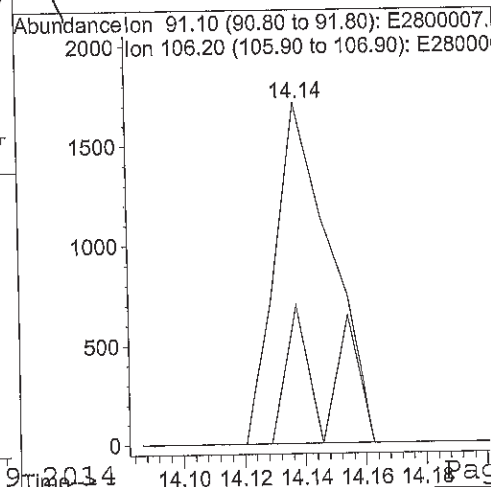
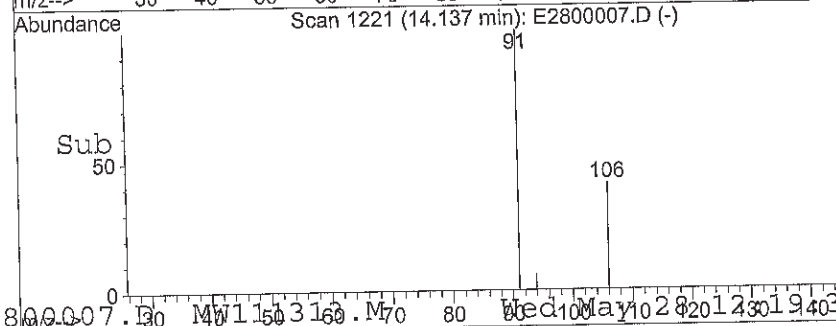
Tgt Ion: 43 Resp: 3004
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#

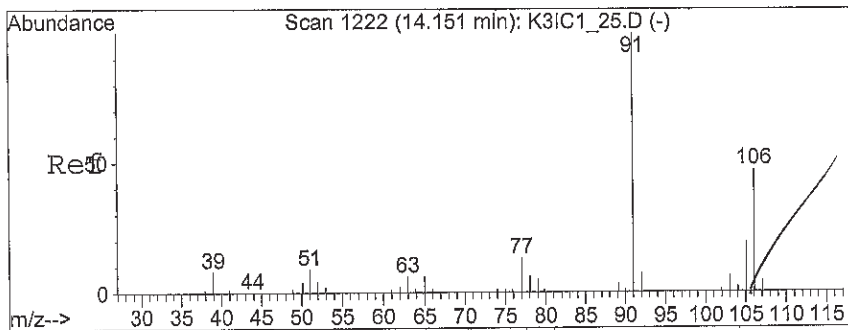


#51
Ethylbenzene
Concen: 0.10 ug/L
RT: 14.14 min Scan# 1221
Delta R.T. 0.11 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am



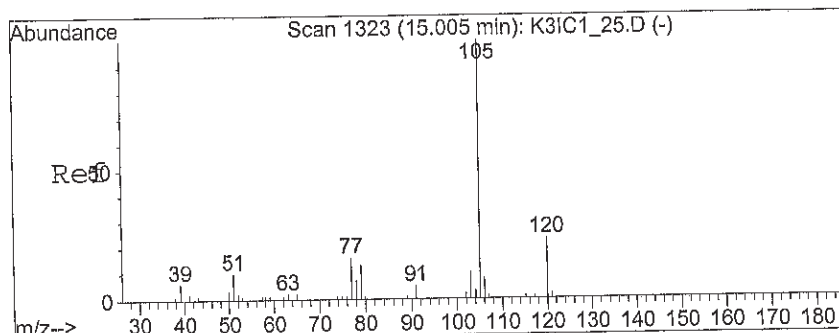
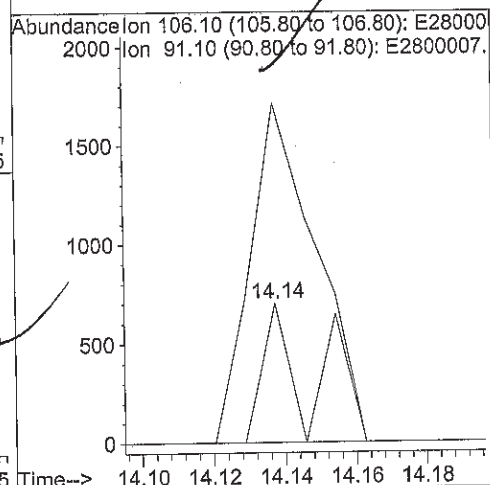
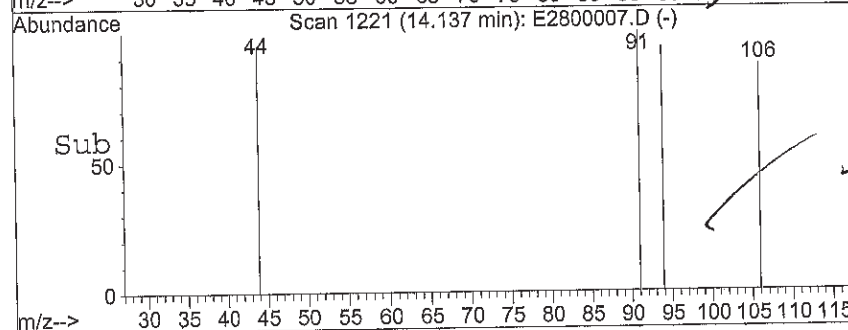
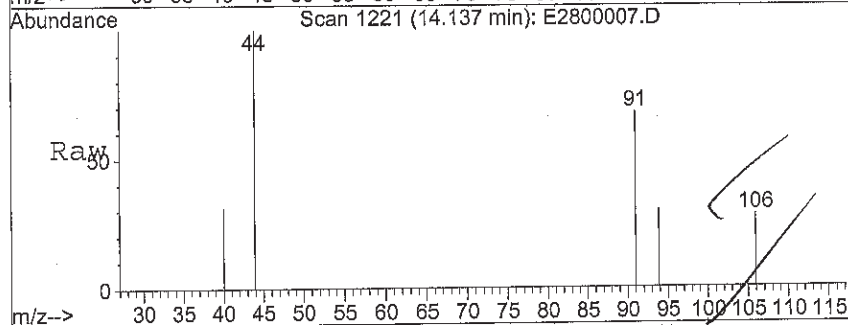
Tgt Ion: 91 Resp: 2182
Ion Ratio Lower Upper
91 100
106 31.3 23.5 35.3





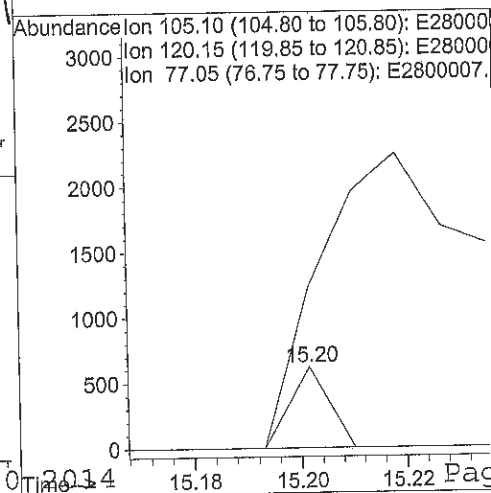
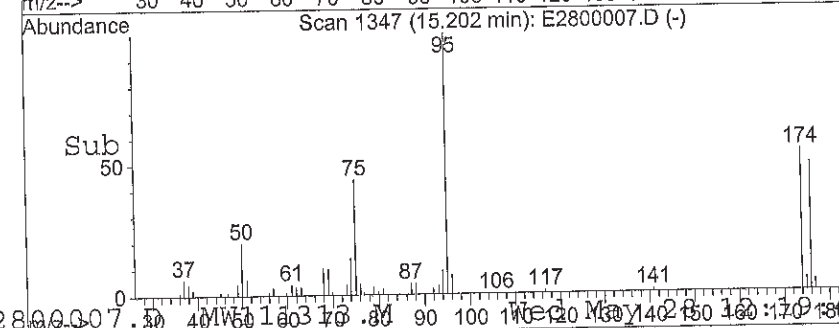
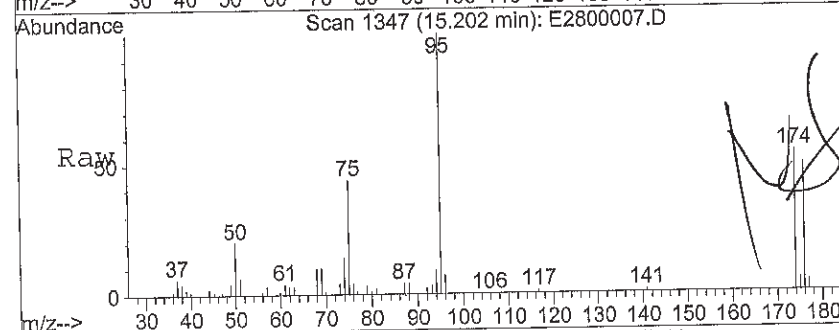
#52
m,p-Xylenes
Concen: 0.09 ug/L
RT: 14.14 min Scan# 1221
Delta R.T. -0.01 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

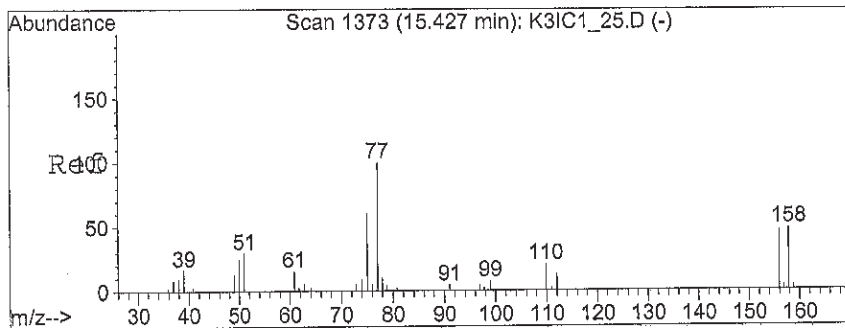
Tgt Ion:106 Resp: 682
Ion Ratio Lower Upper
106 100
91 319.9 177.1 265.7#



#56
Isopropylbenzene
Concen: 0.02 ug/L
RT: 15.20 min Scan# 1347
Delta R.T. 0.20 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am

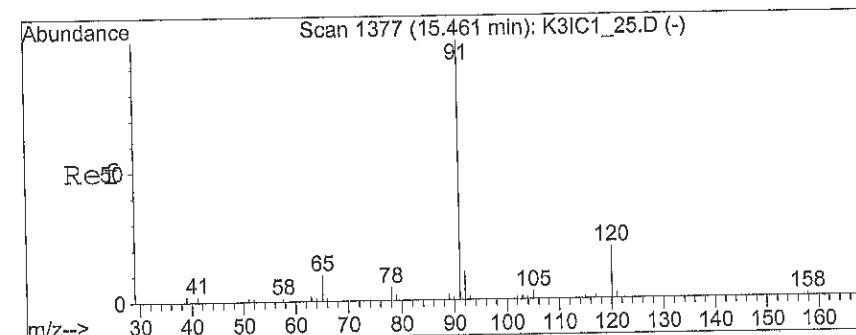
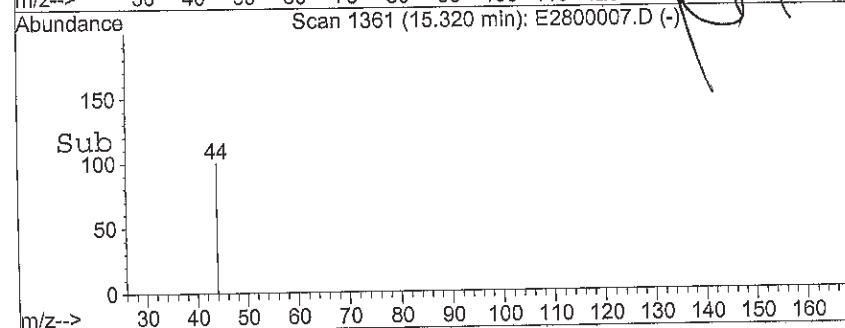
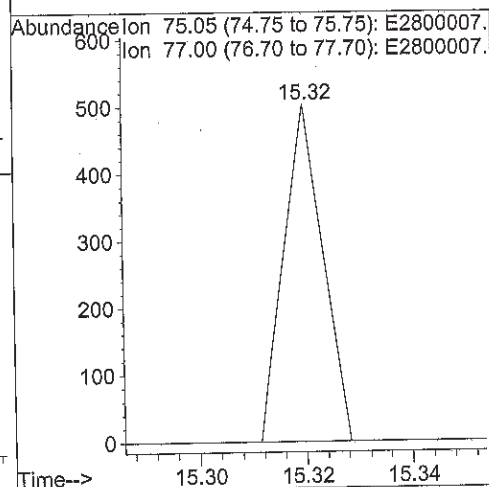
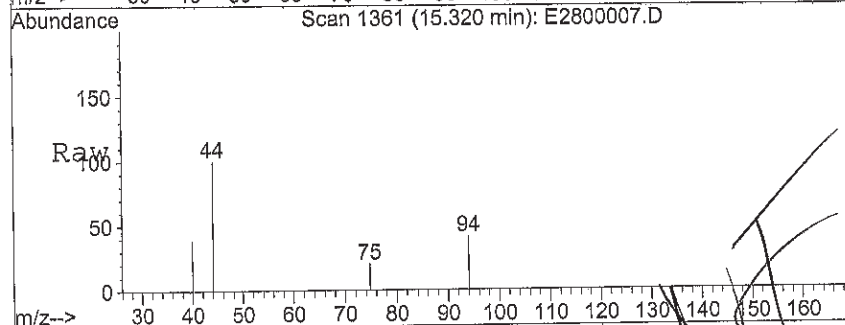
Tgt Ion:105 Resp: 313
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 1406.1 13.1 19.7#





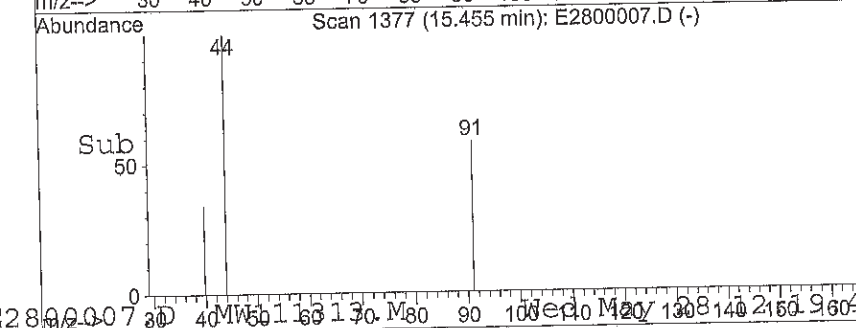
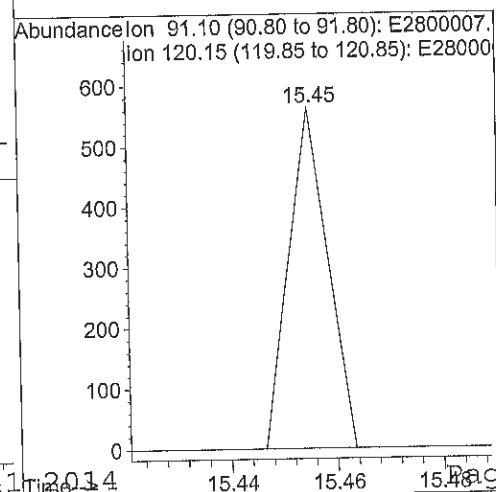
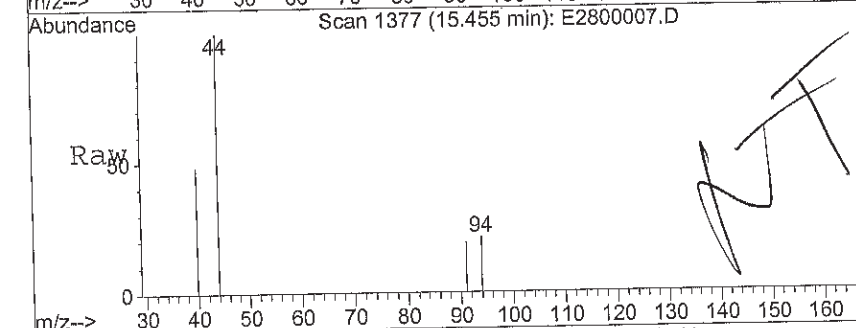
#57
 1,2,3-Trichloropropane
 Concen: 0.04 ug/L
 RT: 15.32 min Scan# 1361
 Delta R.T. -0.11 min
 Lab File: E2800007.D
 Acq: 28 May 2014 11:18 am

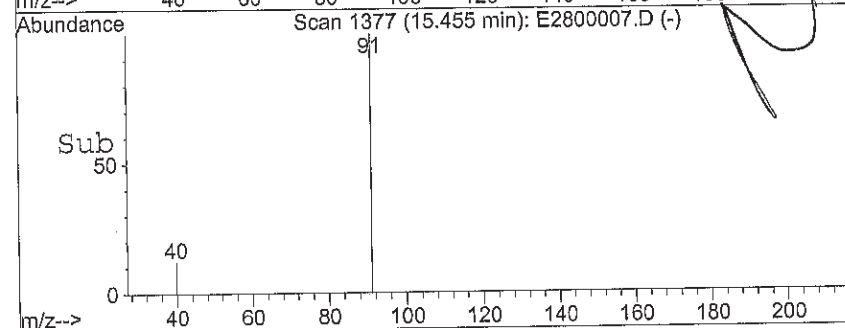
Tgt Ion: 75 Resp: 255
 Ion Ratio Lower Upper
 75 100
 77 0.0 31.2 46.8#



#62
 n-Propylbenzene
 Concen: 0.01 ug/L
 RT: 15.45 min Scan# 1377
 Delta R.T. -0.01 min
 Lab File: E2800007.D
 Acq: 28 May 2014 11:18 am

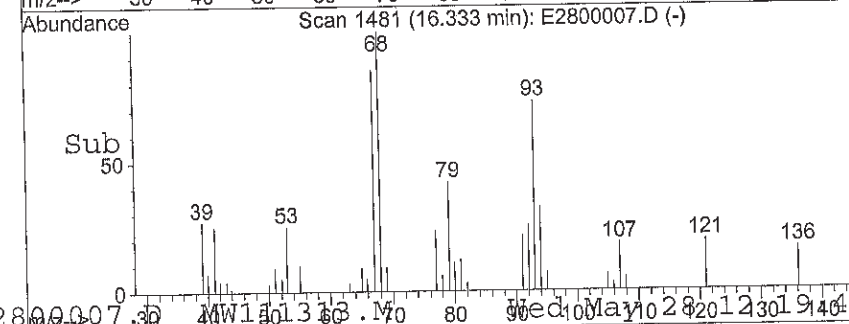
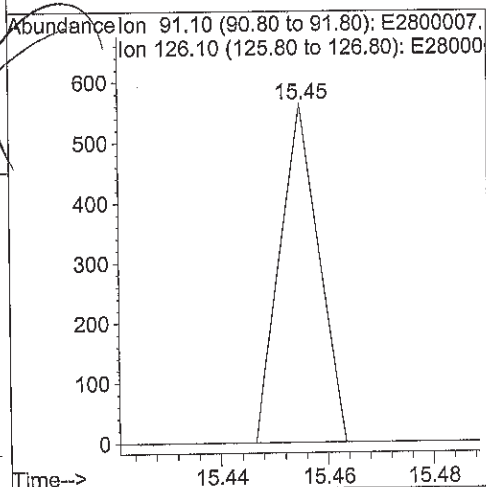
Tgt Ion: 91 Resp: 285
 Ion Ratio Lower Upper
 91 100
 120 0.0 16.1 24.1#





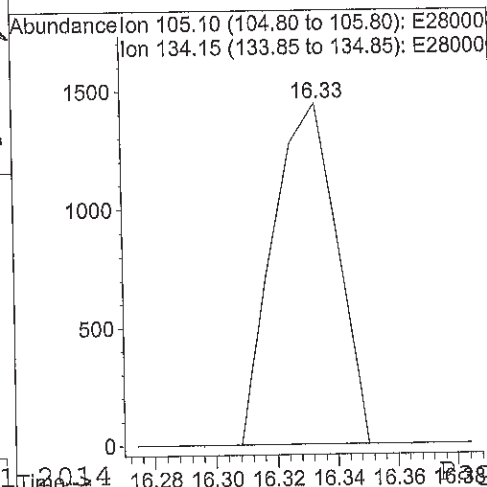
```
#63
2-Chlorotoluene
Concen: 0.02 ug/L
RT: 15.45 min   Scan# 1377
Delta R.T.      -0.16 min
Lab File:       E2800007.D
Acq: 28 May 2014 11:18 am
```

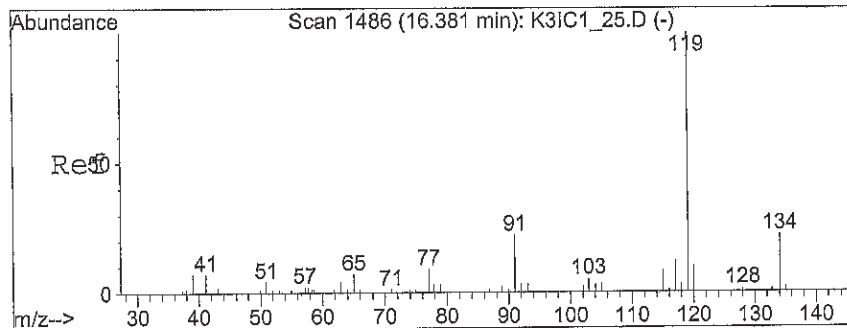
Tgt	Ion: 91	Resp:	285
Ion	Ratio	Lower	Upper
91	100		
126	0.0	24.0	36.0#



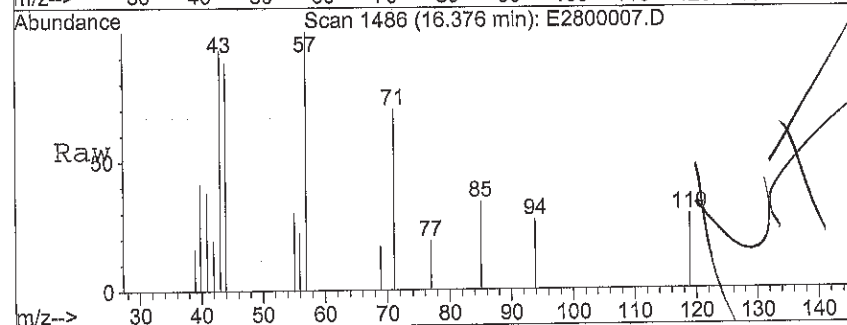
```
#68
sec-Butylbenzene
Concen: 0.09 ug/L
RT: 16.33 min Scan# 1481
Delta R.T. 0.08 min
Lab File: E2800007.D
Acq: 28 May 2014 11:18 am
```

Tgt	Ion:105	Resp:	2110
Ion	Ratio	Lower	Upper
105	100		
134	0.0	13.0	19.6#

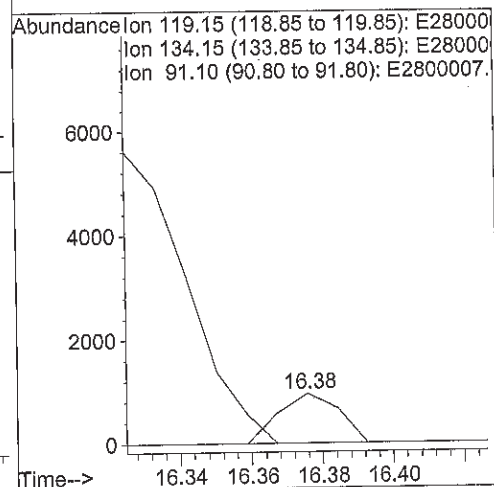
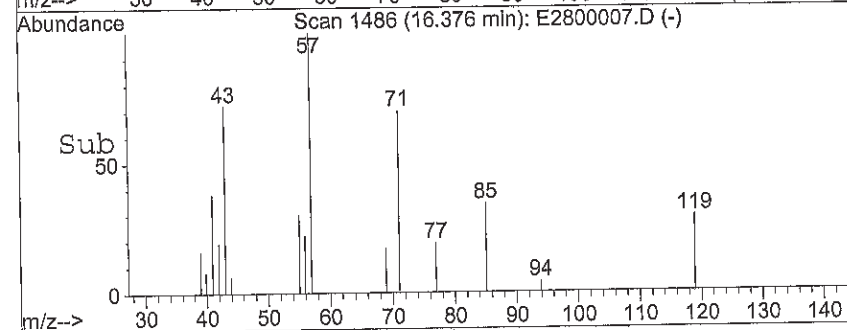




#69
 p-Isopropyltoluene
 Concen: 0.06 ug/L
 RT: 16.38 min Scan# 1486
 Delta R.T. -0.01 min
 Lab File: E2800007.D
 Acq: 28 May 2014 11:18 am



Tgt Ion: 119 Resp: 1118
 Ion Ratio Lower Upper
 119 100
 134 0.0 17.4 26.2#
 91 0.0 19.6 29.4#



Data File : C:\HPCHEM\1\DATA\052814L3\E2800007.D

Vial: 6

Acq On : 28 May 2014 11:18 am

Operator: DN

Sample : 3E42801-06

Inst : GC/MS Ins

Misc : 100cc SVL-511-SA5D-SV-9.5-10.5

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 11:46 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1784446	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.92	117	1395196	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	722995	12.50	ug/L	-0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	503819	10.86	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	86.88%
3) Chloroform-d (SU6)	9.18	84	721792	10.84	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	86.72%
4) Methylene Chloride-d2 (SU5)	7.07	86	421187	10.82	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	86.56%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	471106	14.85	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	118.80%
6) Benzene-d6 (SU7)	9.92	84	1418662	10.13	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	81.04%
8) Toluene-d8 (SU3)	12.20	98	1572941	11.88	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.04%
9) 4-Bromofluorobenzene (SU4)	15.22	95	748409	13.70	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	109.60%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2800007.D SS072713.M Wed May 28 11:46:05 2014

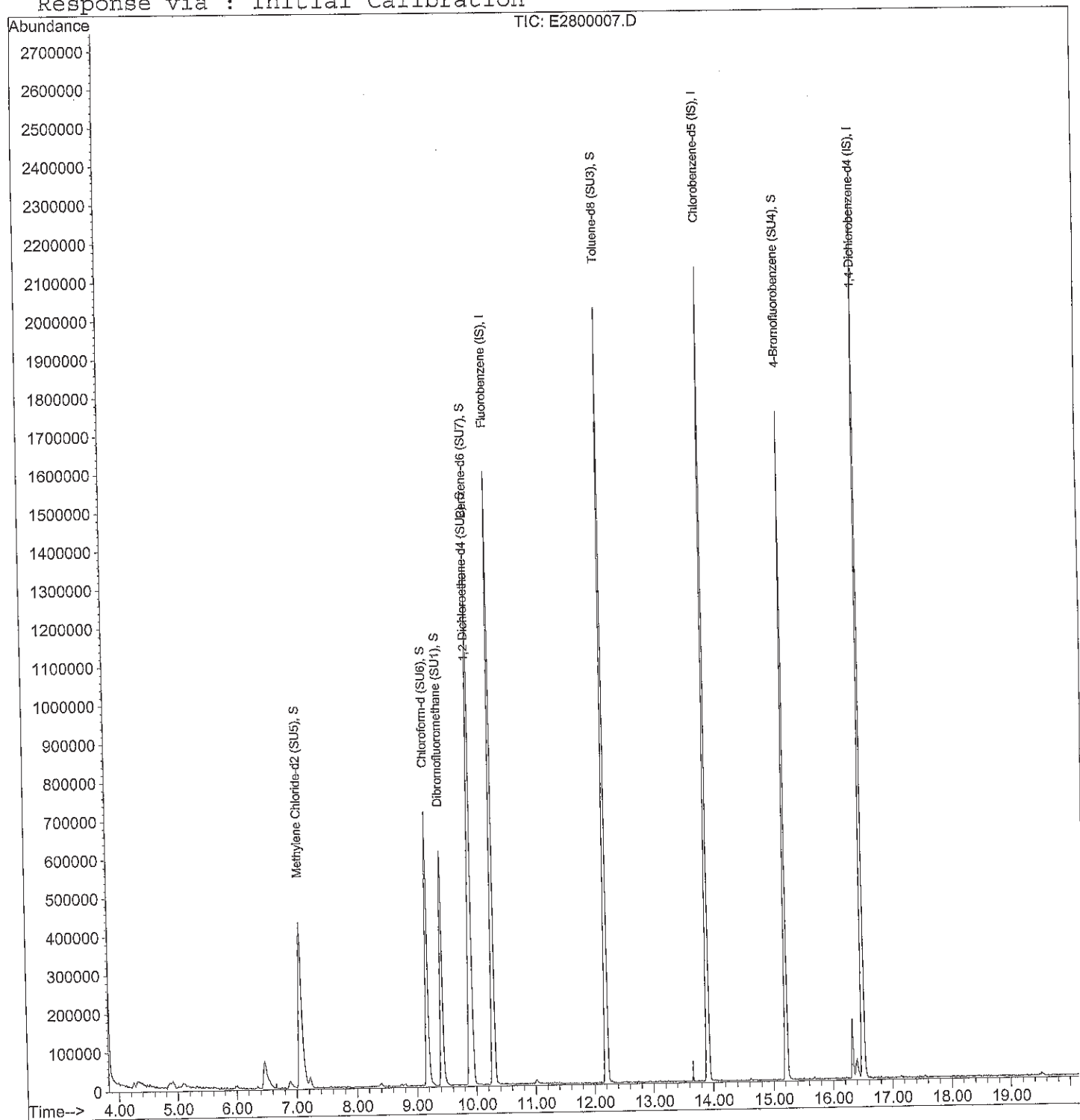
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800007.D
Acq On : 28 May 2014 11:18 am
Sample : 3E42801-06
Misc : 100cc SVL-511-SA5D-SV-9.5-10.5
MS Integration Params: rteint.p
Quant Time: May 28 11:46 19114

Vial: 6
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
Last Update : Mon Nov 18 10:31:39 2013
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052814L3\E2800008.D
 Acq On : 28 May 2014 11:47 am
 Sample : 3E42801-07
 Misc : 100cc SVL-516-SA5D-SV-6.0-7.0
 MS Integration Params: rteint.p
 Quant Time: May 28 12:21 19114

Vial: 7
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1702842	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1327452	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	706606	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	476094	11.21	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	89.68%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	450359	11.16	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	89.28%
39) Toluene-d8 (SU3)	12.21	98	1487149	12.01	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.08%
58) 4-Bromofluorobenzene (SU4)	15.22	95	713660	13.14	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	105.12%

Target Compounds

					Qvalue
4) Chloromethane	4.40	50	2285	-0.42 ug/L	#1 41
6) Bromomethane	5.25	96	1364	-1.05 ug/L	#1 91
7) Chloroethane	5.03	64	984	1.38 ug/L	#1 89
9) (F113) 1,1,2-Trichloro-tri	6.33	151	1099	0.33 ug/L	#1 19
11) Acetone	6.47	58	4411	1.56 ug/L	#1 88
12) (IPA) Leak Check Compound	6.48	45	151076	738.32 ug/L	#1 83
13) Carbon disulfide	6.83	76	482	0.03 ug/L	#1 76
14) Methylene Chloride	7.08	84	5529	1.18 ug/L	#1 1
15) (TBA) tert-Butanol	6.90	59	2162	7.44 ug/L	#1 77
24) Chloroform	9.21	83	2118	0.24 ug/L	#1 76
29) 1,1-Dichloropropene	9.93	75	458	0.07 ug/L	#1 1
31) Benzene	9.93	78	10123	0.63 ug/L	#1 81
32) 1,2-Dichloroethane	9.93	62	6954	1.23 ug/L	#1 1
40) (MIBK) 4-Methyl-2-Pentanone	12.21	43	7168	2.71 ug/L	#1 100
41) Toluene	12.29	91	2320	0.13 ug/L	#1 98
46) 2-Hexanone	12.93	43	2227	0.77 ug/L	#1 37
51) Ethylbenzene	14.02	91	1536	0.07 ug/L	#1 45
52) m,p-Xylenes	14.15	106	281	0.04 ug/L	#1 1
53) o-Xylene	14.61	106	275	0.04 ug/L	#1 81
54) Styrene	14.62	104	1523	-0.73 ug/L	#1 50
56) Isopropylbenzene	15.23	105	1208	0.06 ug/L	#1 1
62) n-Propylbenzene	15.47	91	506	0.02 ug/L	#1 56

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052814L3\E2800008.D

Vial: 7

Acq On : 28 May 2014 11:47 am

Operator: DN

Sample : 3E42801-07

Inst : GC/MS Ins

Misc : 100cc SVL-516-SA5D-SV-6.0-7.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 12:21 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
63) 2-Chlorotoluene	15.47	91	506	0.03	ug/L	45
67) 1,2,4-Trimethylbenzene	16.07	105	399	0.02	ug/L	33
68) sec-Butylbenzene	16.34	105	1218	0.05	ug/L	62
69) p-Isopropyltoluene	16.38	119	423	0.02	ug/L	52
77) Naphthalene	19.44	128	276	0.02	ug/L	100

(#) = qualifier out of range (m) = manual integration

E2800008.D MW111313.M

Wed May 28 12:21:49 2014

Page 2

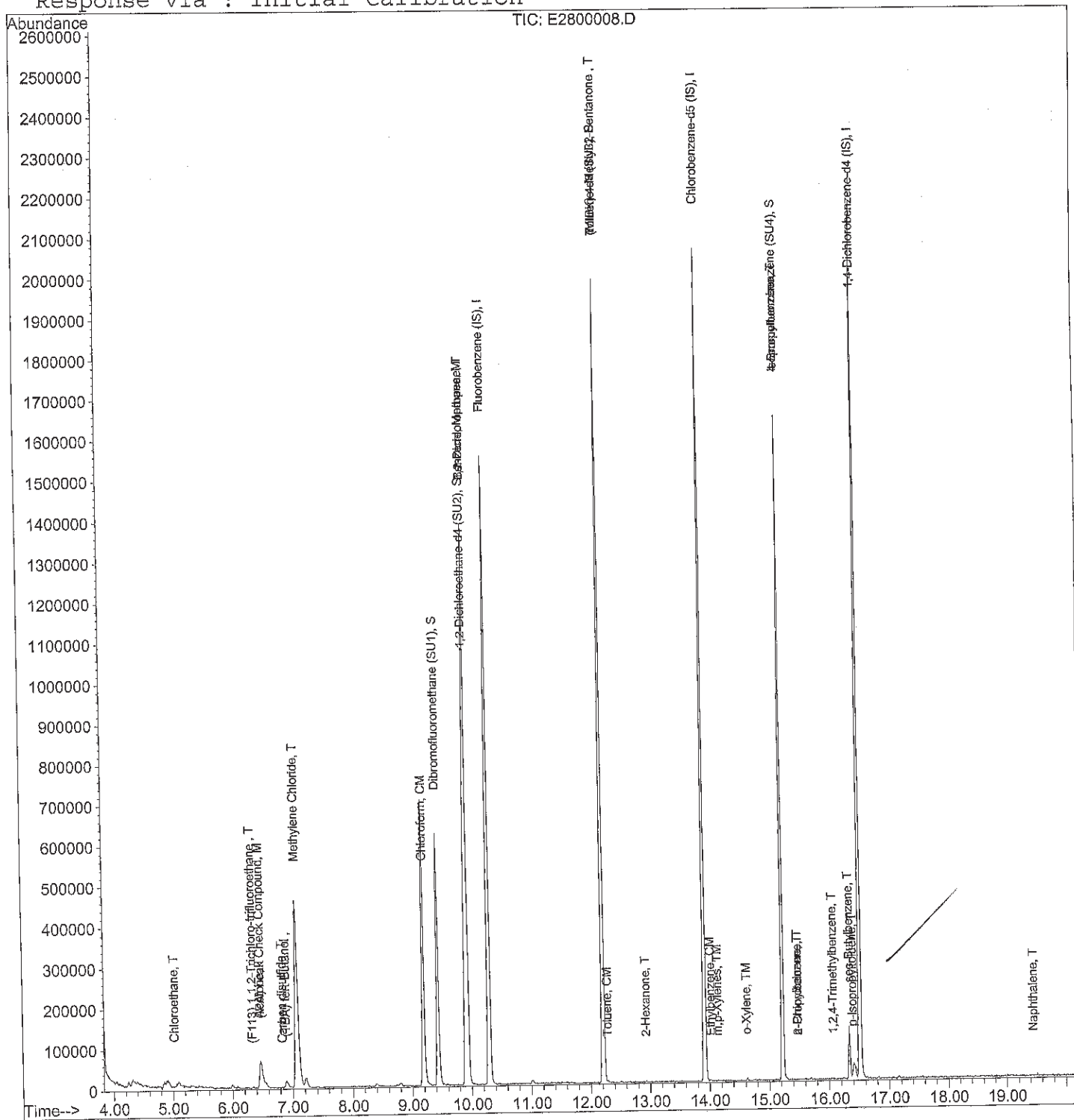
Quantitation Report

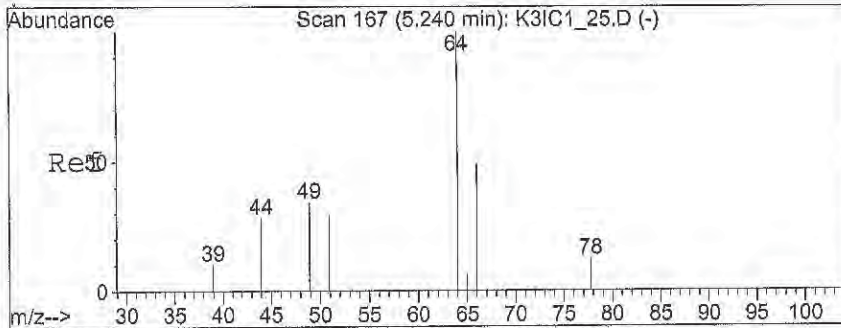
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Acq On : 28 May 2014 11:47 am
Sample : 3E42801-07
Misc : 100cc SVL-516-SA5D-SV-6.0-7.0
MS Integration Params: rteint.p
Quant Time: May 28 12:21 19114

Vial: 7
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

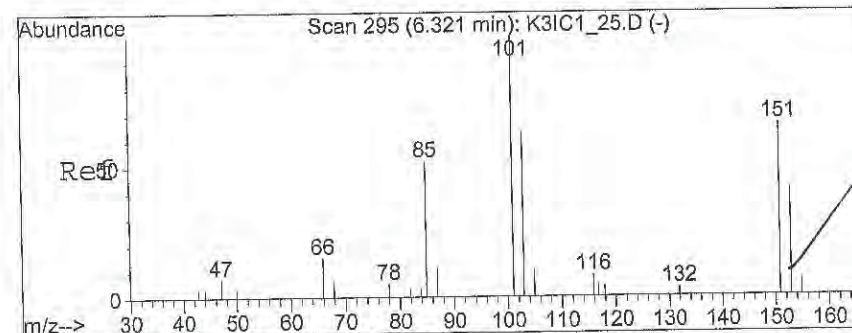
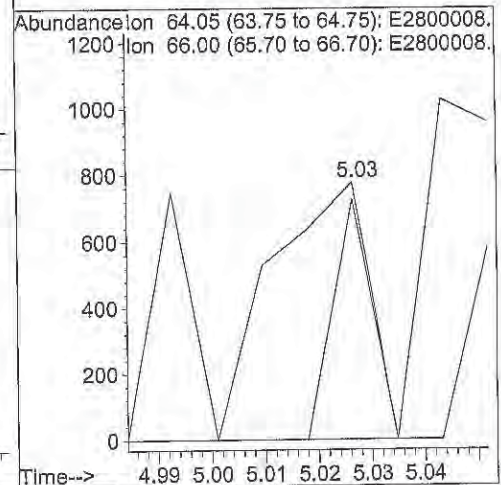
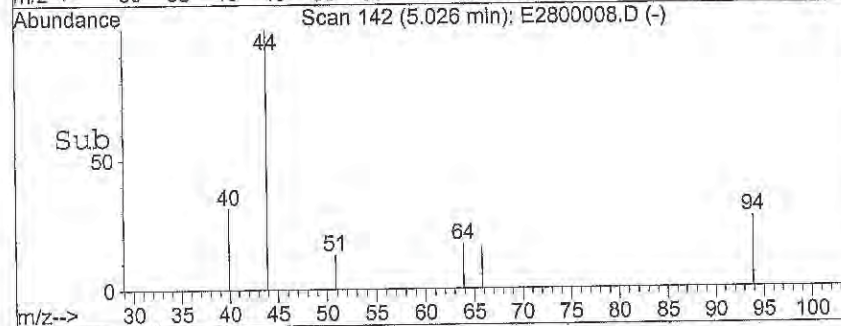
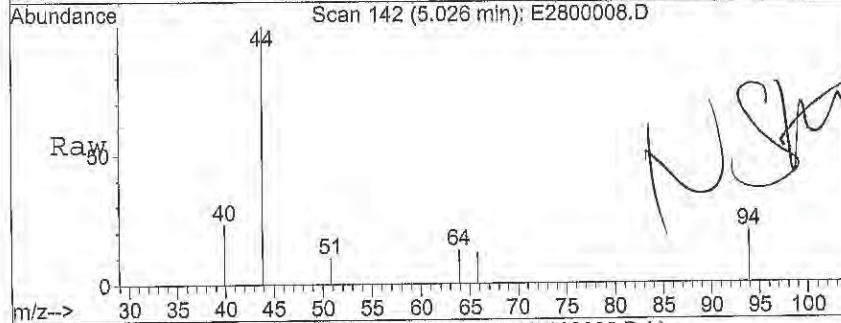
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration





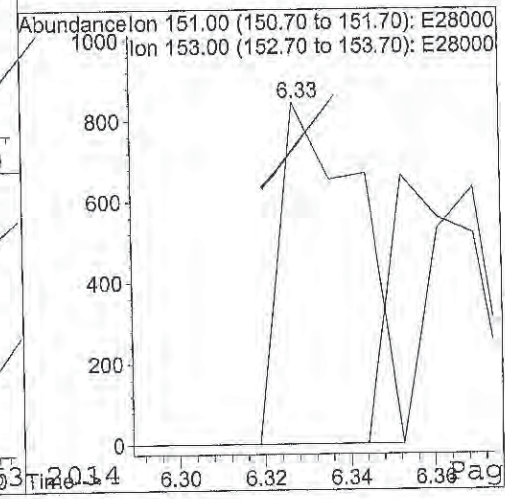
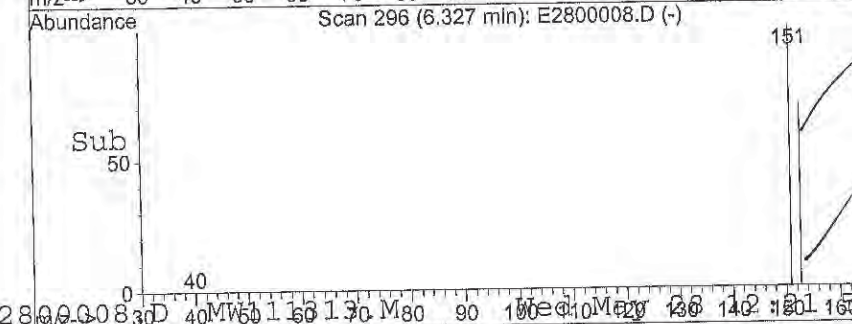
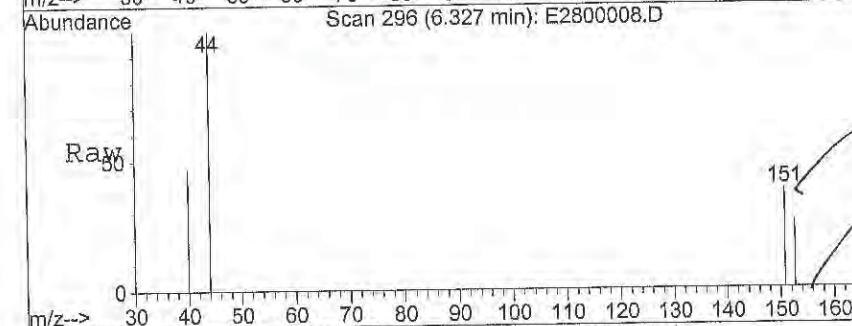
#7
 Chloroethane
 Concen: 1.38 ug/L
 RT: 5.03 min Scan# 142
 Delta R.T. -0.21 min
 Lab File: E2800008.D
 Acq: 28 May 2014 11:47 am

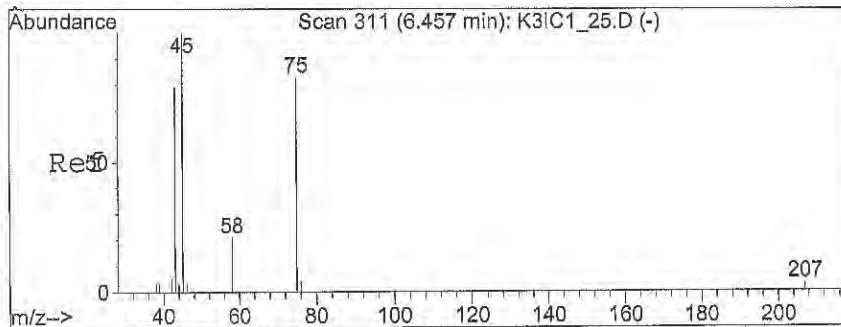
Tgt Ion: 64 Resp: 984
 Ion Ratio Lower Upper
 64 100
 66 37.3 35.4 53.0



#9
 (F113) 1,1,2-Trichloro-trifluoroethane
 Concen: 0.33 ug/L
 RT: 6.33 min Scan# 296
 Delta R.T. 0.01 min
 Lab File: E2800008.D
 Acq: 28 May 2014 11:47 am

Tgt Ion: 151 Resp: 1099
 Ion Ratio Lower Upper
 151 100
 153 0.0 49.6 74.4





#11

Acetone

Concen: 1.56 ug/L

RT: 6.47 min Scan# 313

Delta R.T. 0.01 min

Lab File: E2800008.D

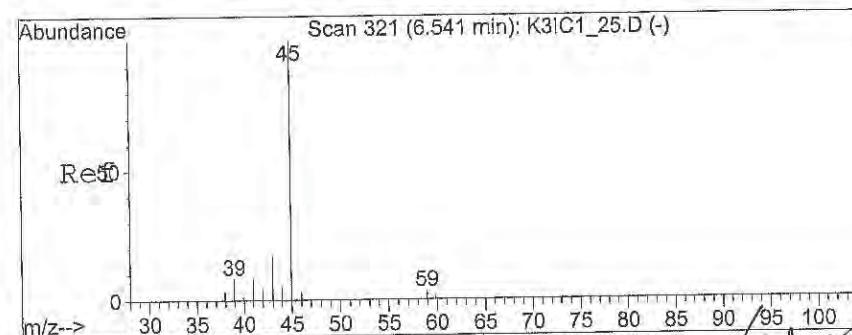
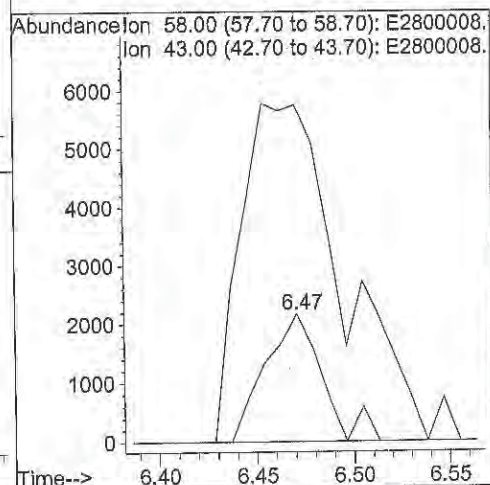
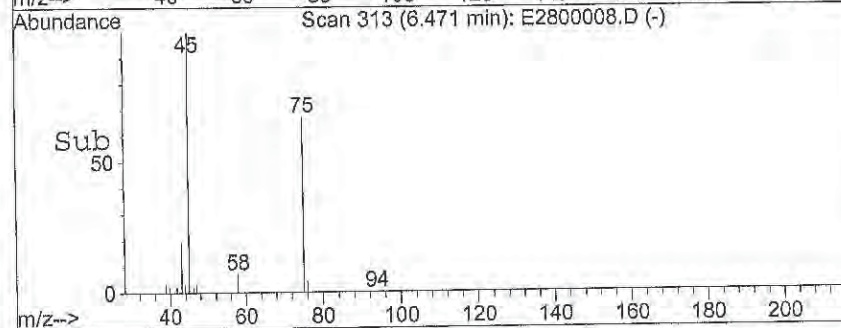
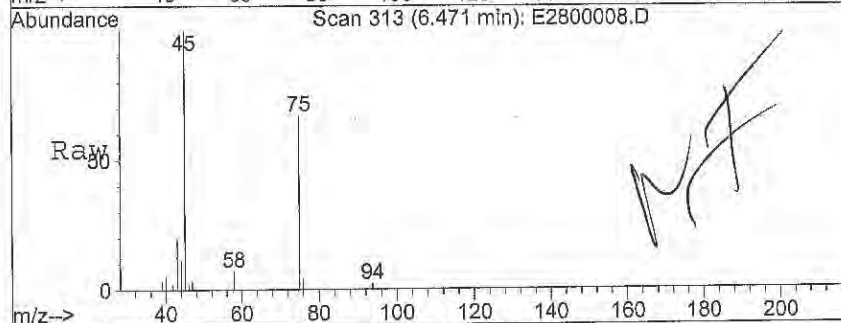
Acq: 28 May 2014 11:47 am

Tgt Ion: 58 Resp: 4411

Ion Ratio Lower Upper

58 100

43 480.9 360.9 541.3



#12

(IPA) Leak Check Compound

Concen: 738.32 ug/L

RT: 6.48 min Scan# 314

Delta R.T. -0.06 min

Lab File: E2800008.D

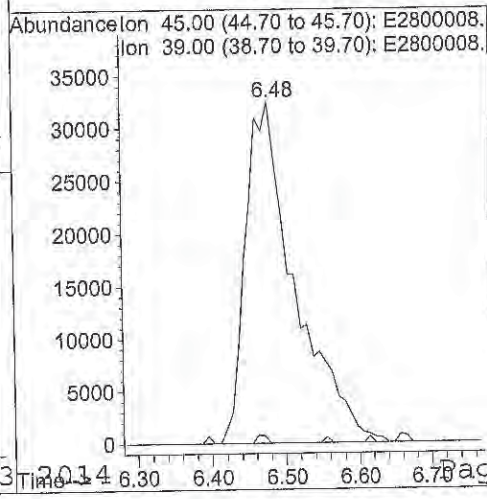
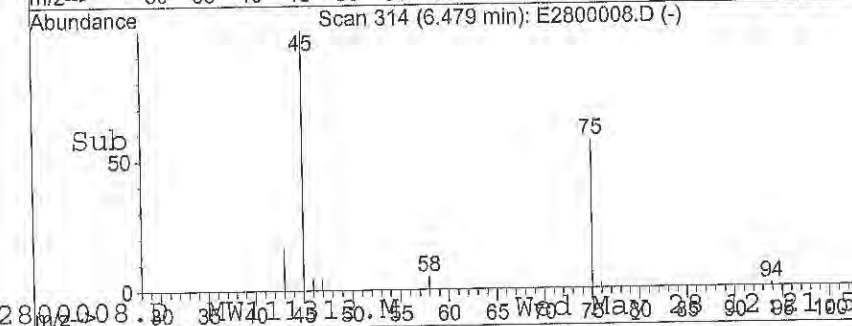
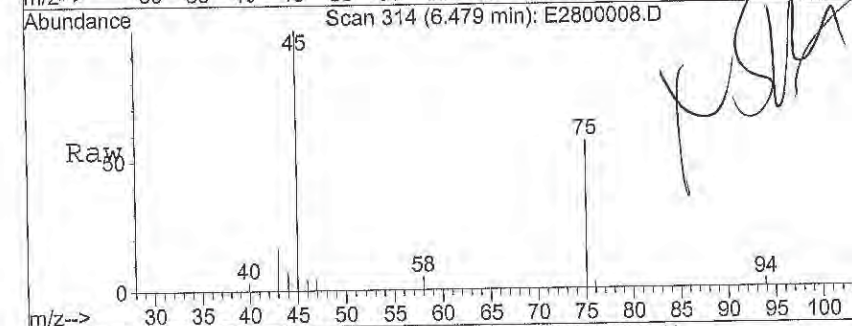
Acq: 28 May 2014 11:47 am

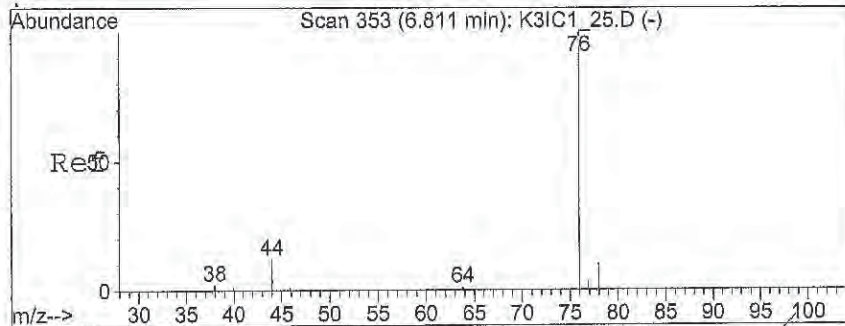
Tgt Ion: 45 Resp: 151076

Ion Ratio Lower Upper

45 100

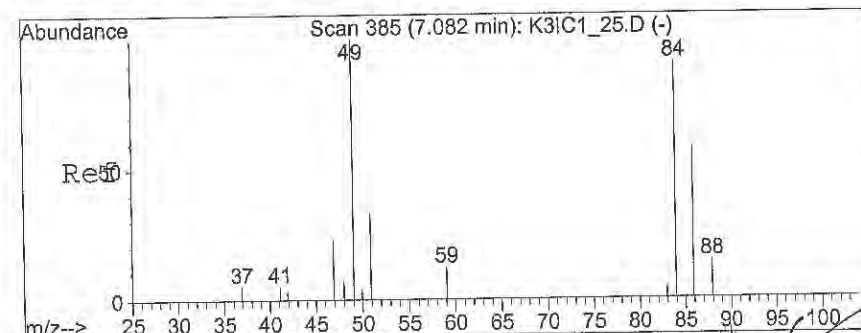
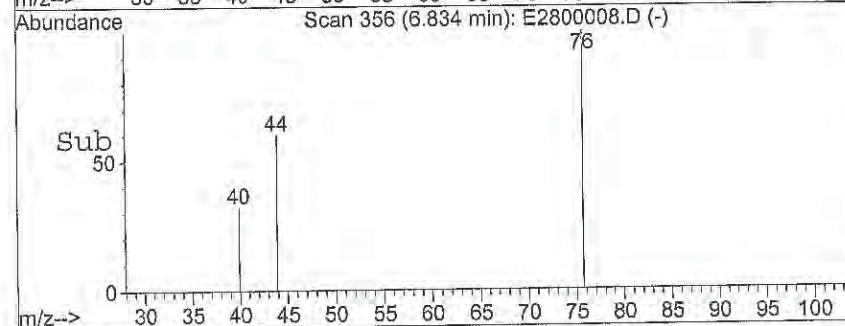
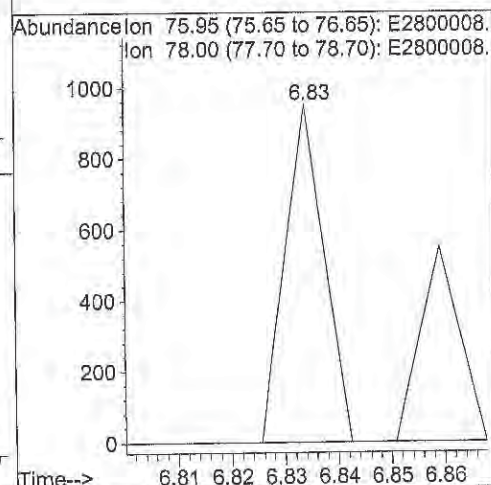
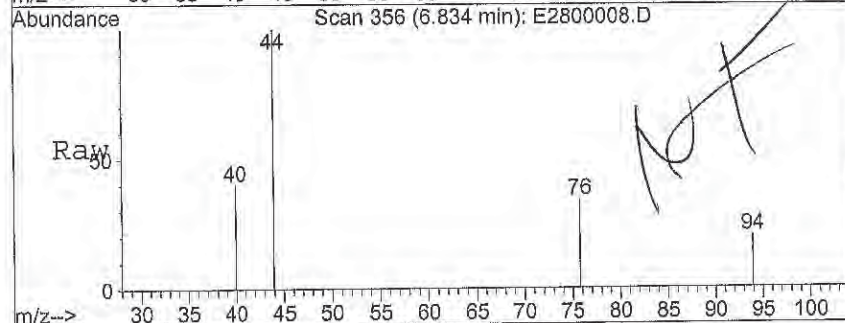
39 0.5 4.9 7.3#





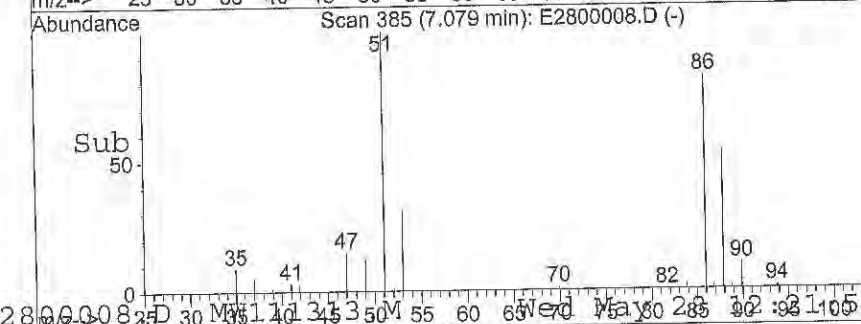
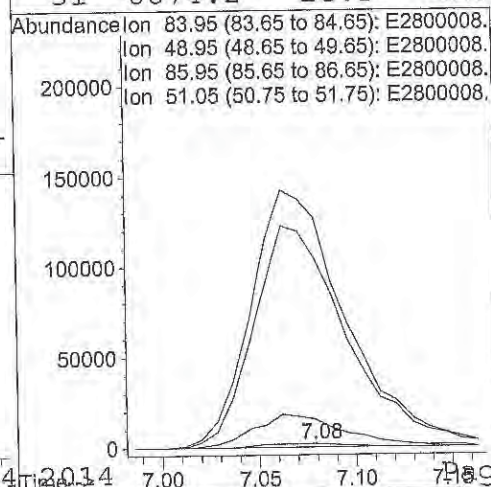
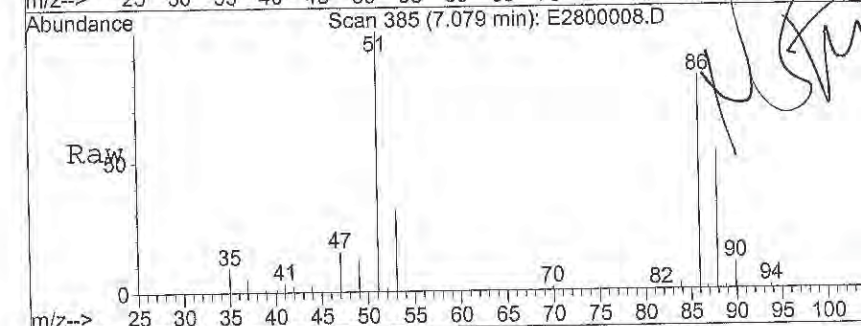
#13
Carbon disulfide
Concen: 0.03 ug/L
RT: 6.83 min Scan# 356
Delta R.T. 0.02 min
Lab File: E2800008.D
Acq: 28 May 2014 11:47 am

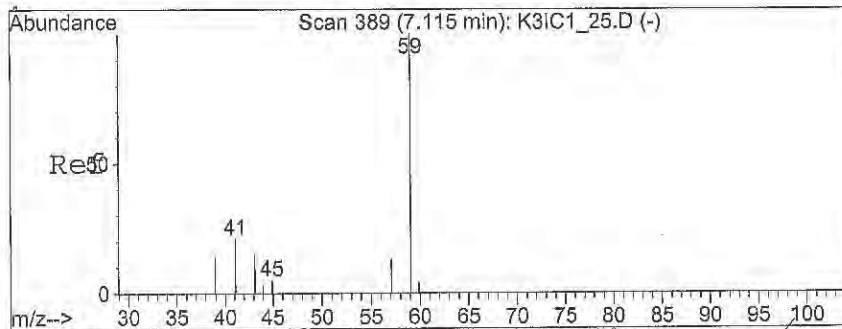
Tgt Ion: 76 Resp: 482
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#14
Methylene Chloride
Concen: 1.18 ug/L
RT: 7.08 min Scan# 385
Delta R.T. -0.00 min
Lab File: E2800008.D
Acq: 28 May 2014 11:47 am

Tgt Ion: 84 Resp: 5529
Ion Ratio Lower Upper
84 100
49 1069.4 89.8 134.6#
86 7505.3 51.1 76.7#
51 8874.2 28.5 42.7#





#15

(TBA) tert-Butanol

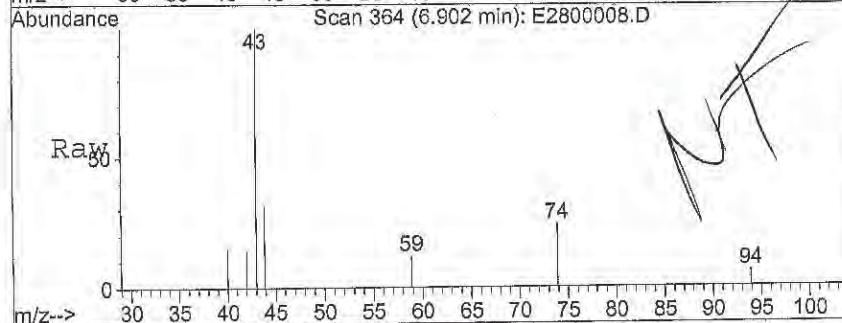
Concen: 7.44 ug/L

RT: 6.90 min Scan# 364

Delta R.T. -0.21 min

Lab File: E2800008.D

Acq: 28 May 2014 11:47 am

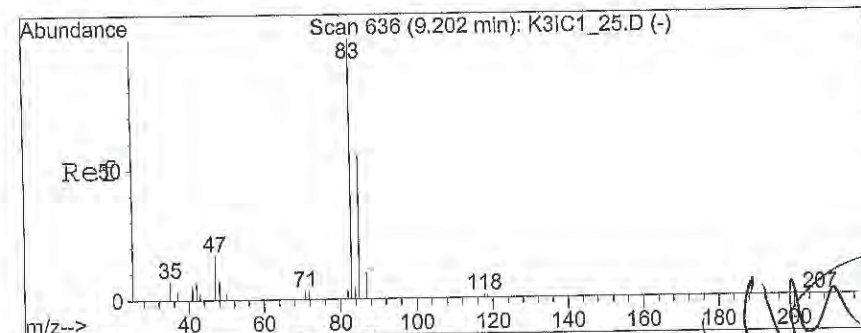
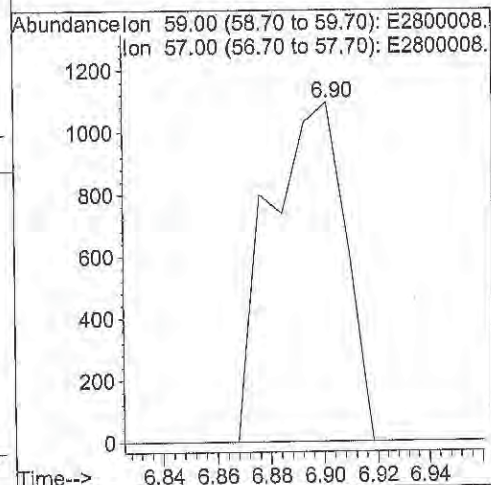
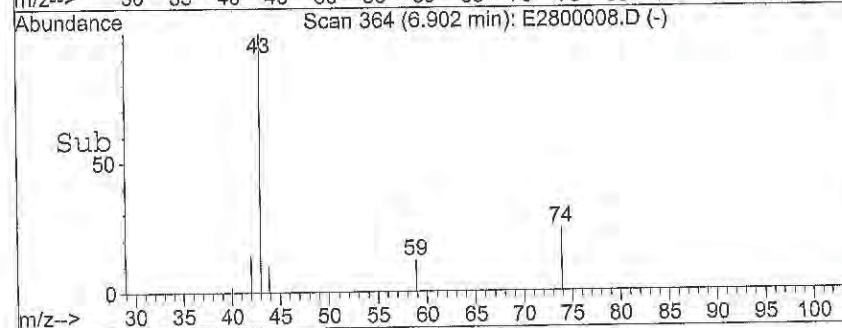


Tgt Ion: 59 Resp: 2162

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#24

Chloroform

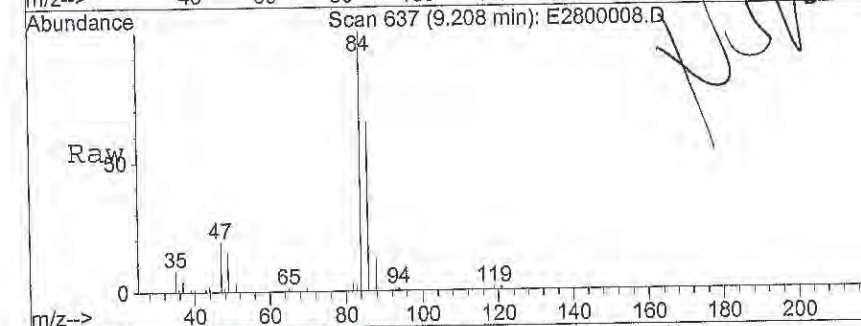
Concen: 0.24 ug/L

RT: 9.21 min Scan# 637

Delta R.T. 0.01 min

Lab File: E2800008.D

Acq: 28 May 2014 11:47 am

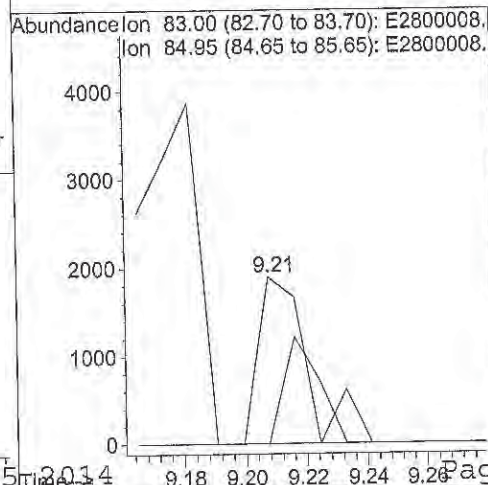
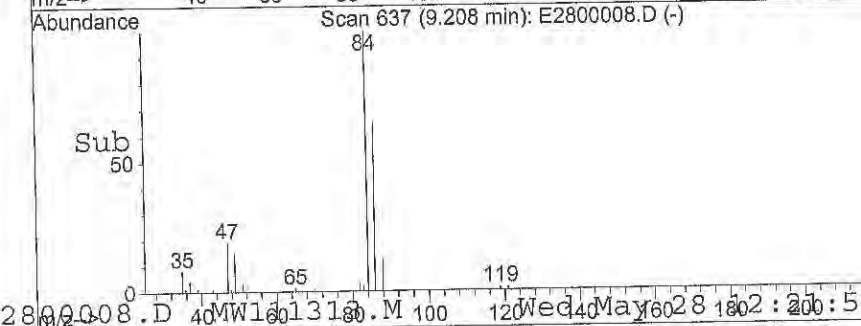


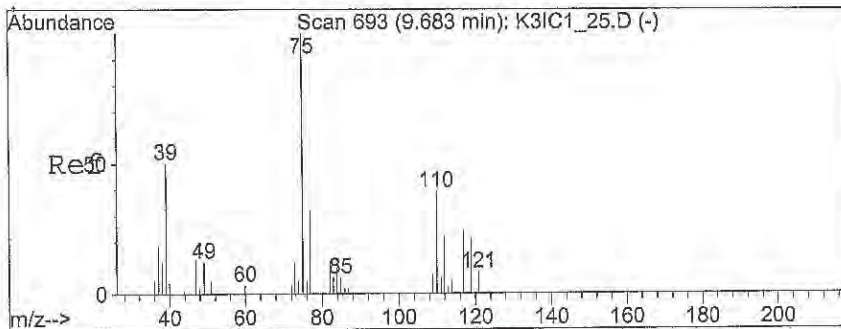
Tgt Ion: 83 Resp: 2118

Ion Ratio Lower Upper

83 100

85 45.9 51.8 77.6#





#29

1,1-Dichloropropene

Concen: 0.07 ug/L

RT: 9.93 min Scan# 722

Delta R.T. 0.24 min

Lab File: E2800008.D

Acq: 28 May 2014 11:47 am

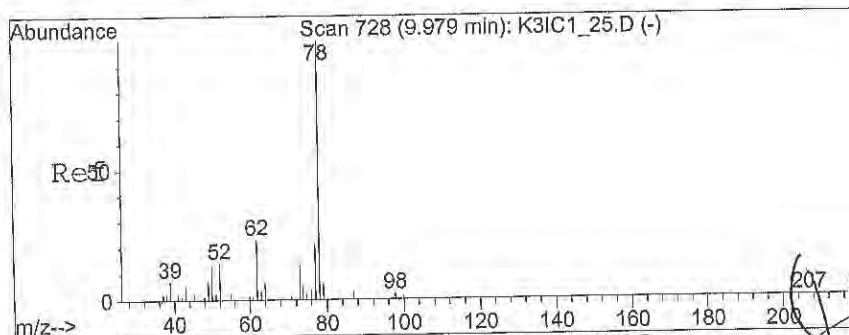
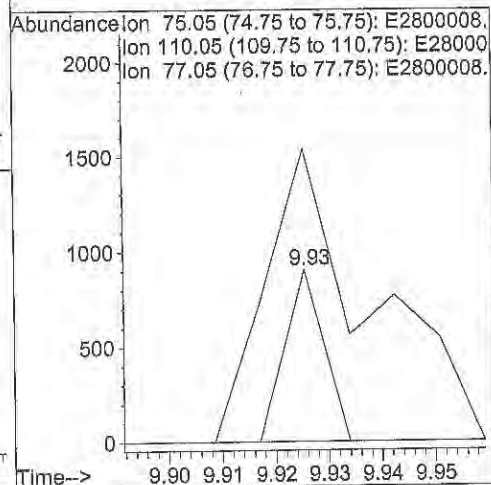
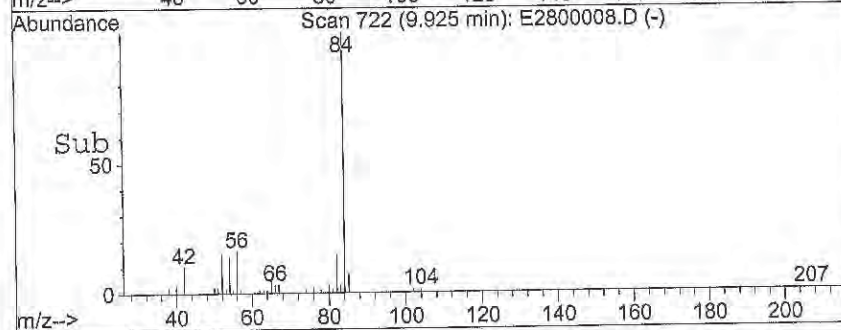
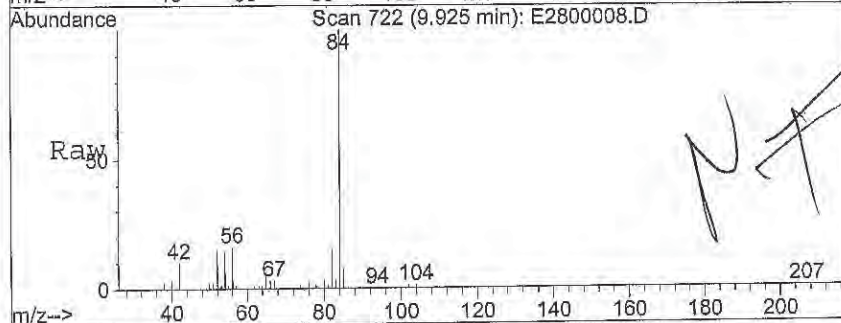
Tgt Ion: 75 Resp: 458

Ion Ratio Lower Upper

75 100

110 0.0 29.0 43.6#

77 458.5 25.0 37.4#



#31

Benzene

Concen: 0.63 ug/L

RT: 9.93 min Scan# 722

Delta R.T. -0.05 min

Lab File: E2800008.D

Acq: 28 May 2014 11:47 am

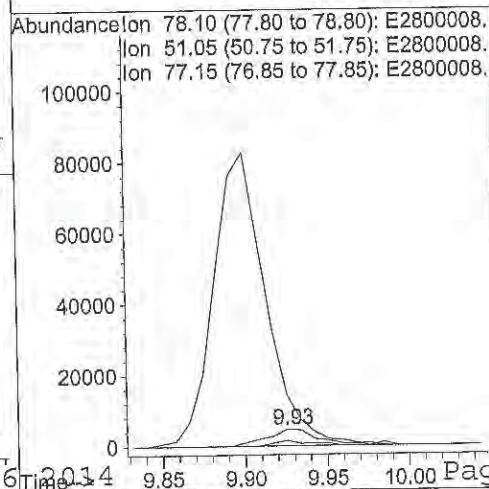
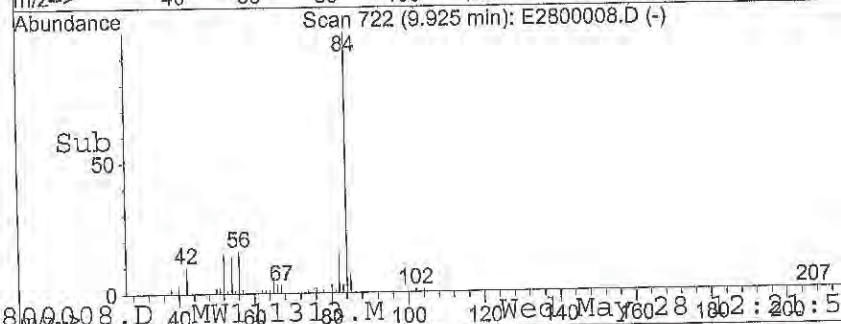
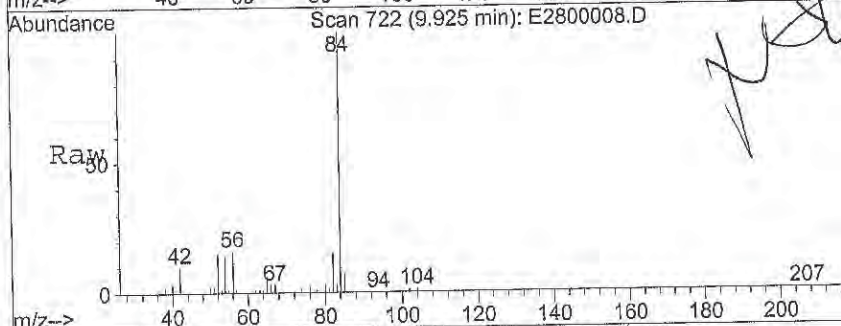
Tgt Ion: 78 Resp: 10123

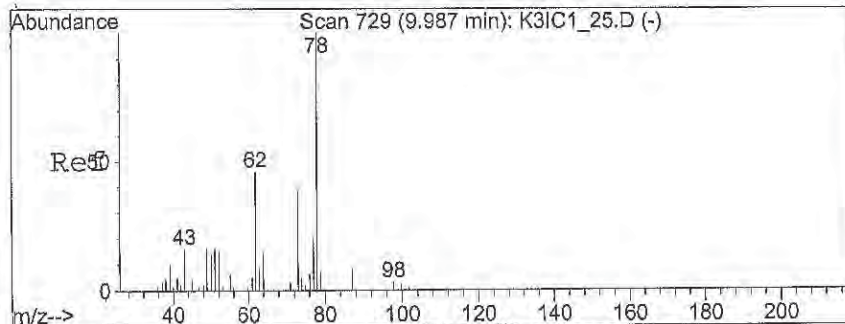
Ion Ratio Lower Upper

78 100

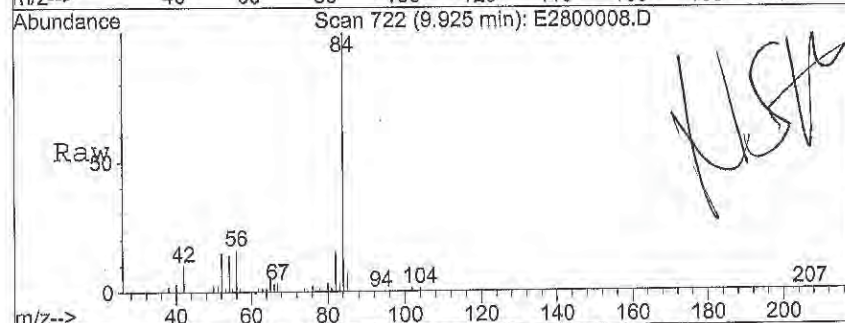
51 0.0 14.2 21.2#

77 20.7 16.6 24.8



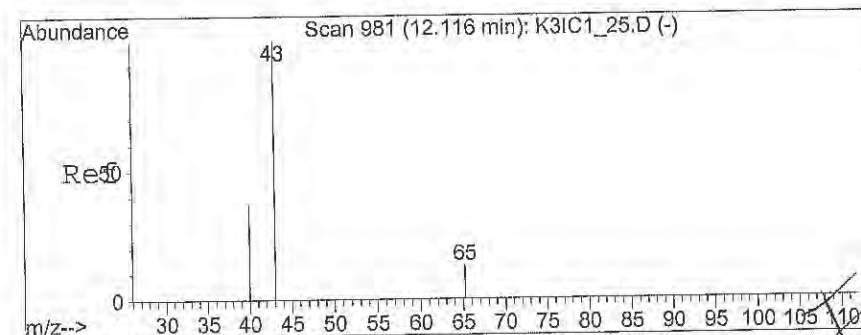
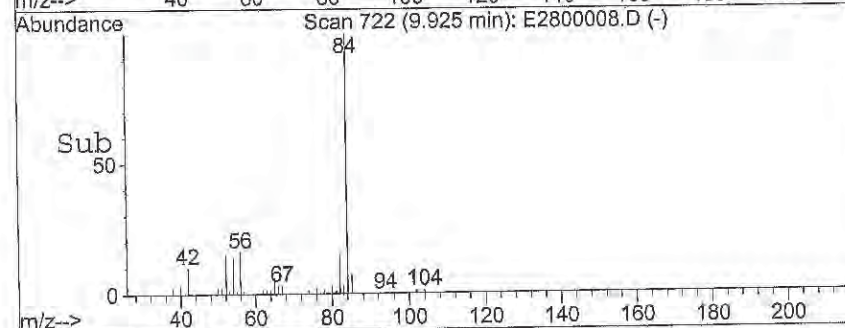
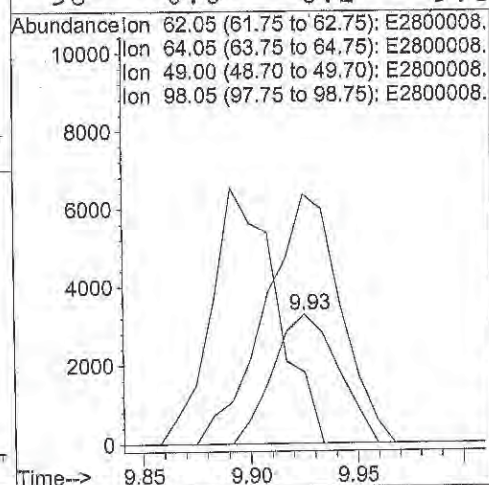


#32
1,2-Dichloroethane
Concen: 1.23 ug/L
RT: 9.93 min Scan# 722
Delta R.T. -0.06 min
Lab File: E2800008.D
Acq: 28 May 2014 11:47 am

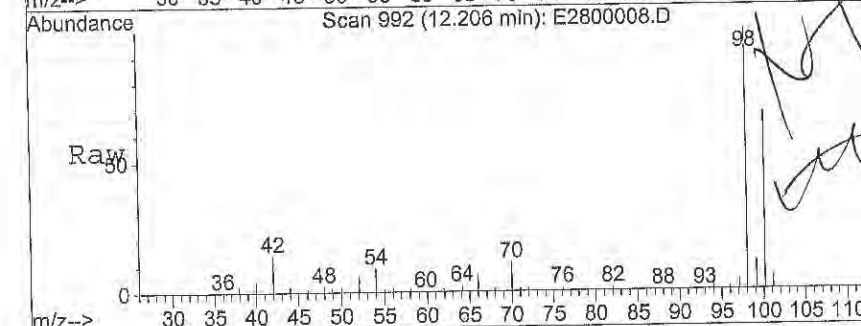


Tgt Ion: 62 Resp: 6954

Ion	Ratio	Lower	Upper
62	100		
64	222.9	28.0	42.0#
49	0.0	28.5	42.7#
98	0.0	6.2	9.4#

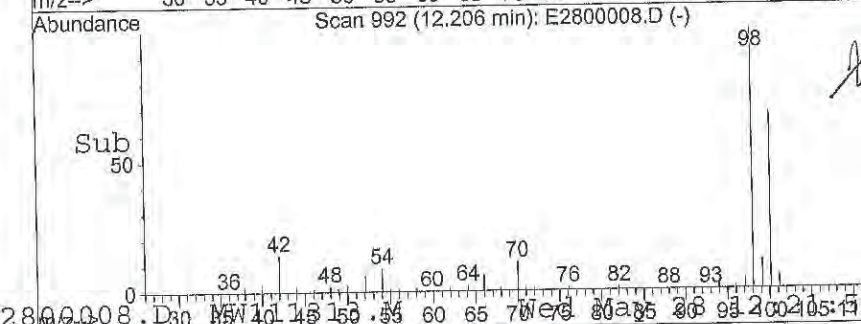
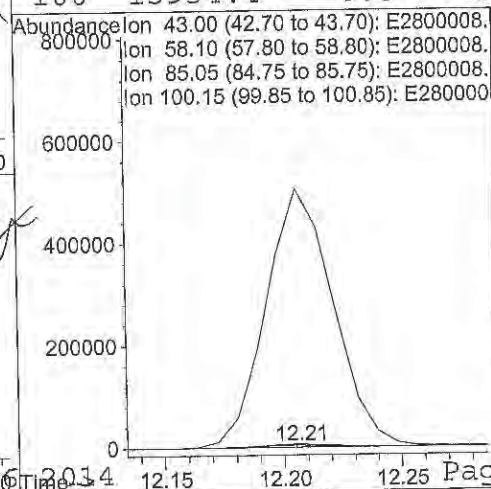


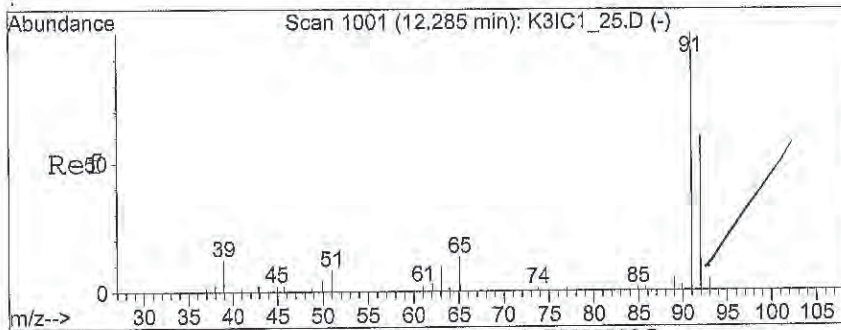
#40
(MIBK) 4-Methyl-2-Pentanone
Concen: 2.71 ug/L
RT: 12.21 min Scan# 992
Delta R.T. 0.09 min
Lab File: E2800008.D
Acq: 28 May 2014 11:47 am



Tgt Ion: 43 Resp: 7168

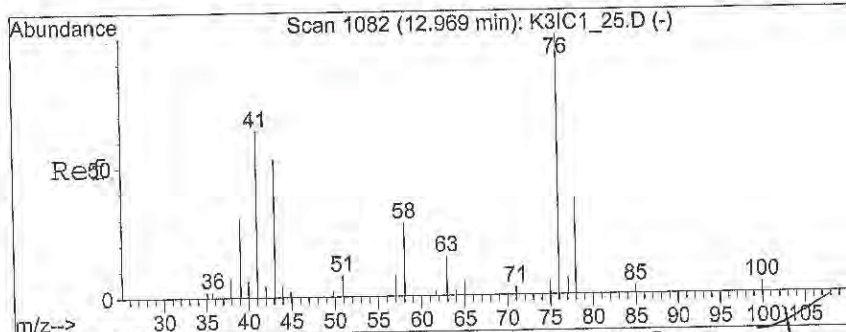
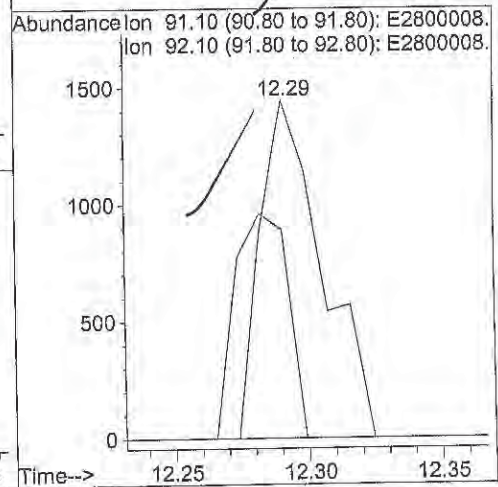
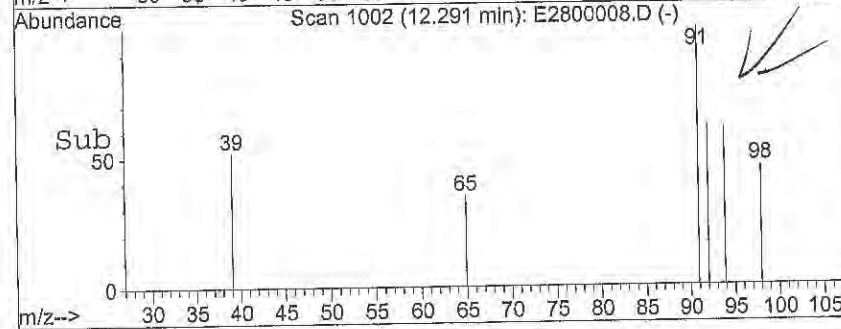
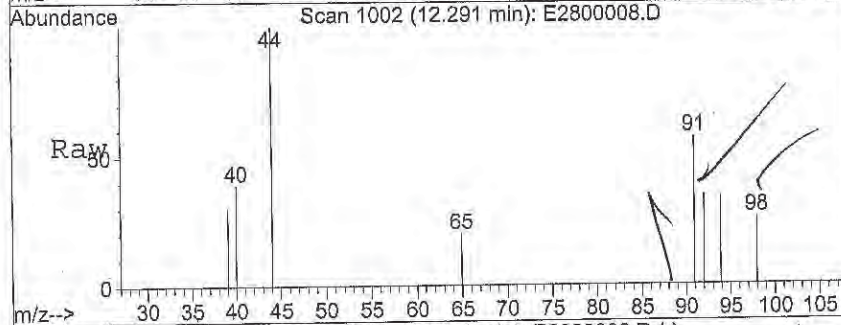
Ion	Ratio	Lower	Upper
43	100		
58	157.1	0.0	0.0#
85	0.0	0.0	0.0
100	13934.4	0.0	0.0#





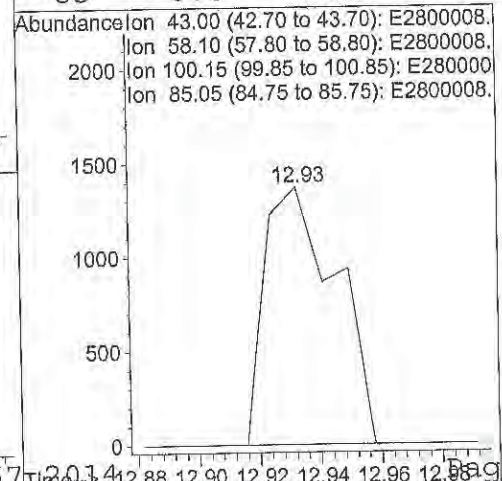
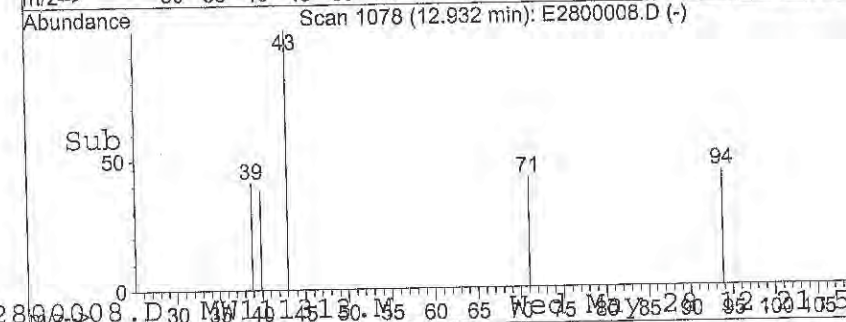
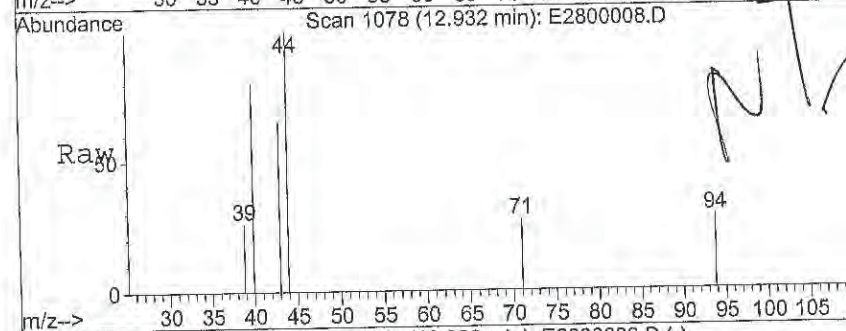
#41
Toluene
Concen: 0.13 ug/L
RT: 12.29 min Scan# 1002
Delta R.T. 0.01 min
Lab File: E2800008.D
Acq: 28 May 2014 11:47 am

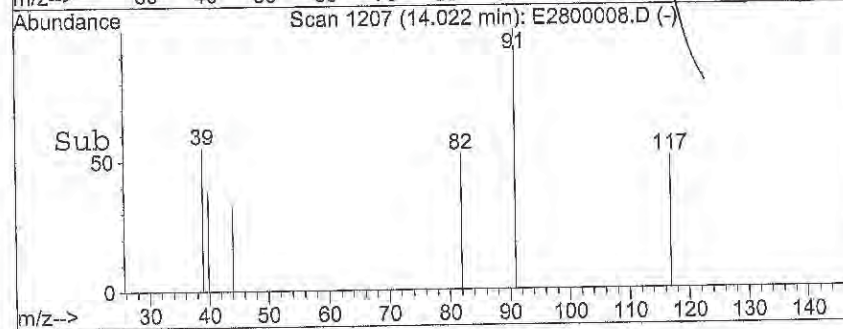
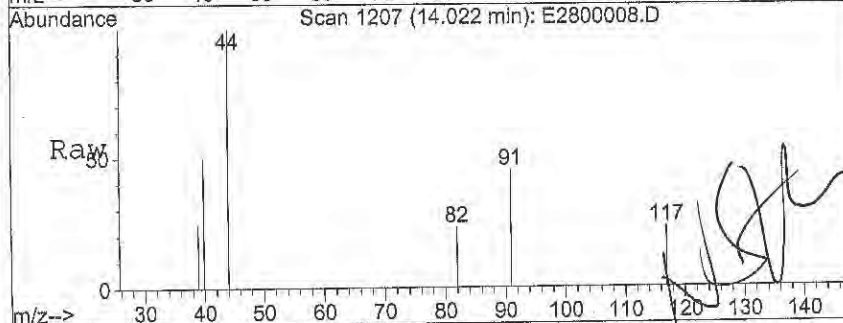
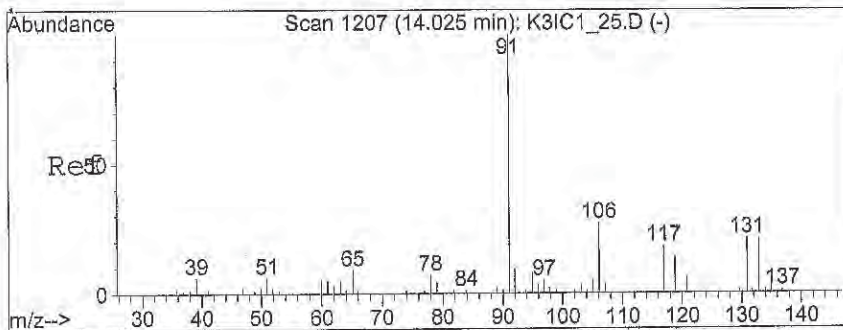
Tgt Ion: 91 Resp: 2320
Ion Ratio Lower Upper
91 100
92 57.4 47.4 71.0



#46
2-Hexanone
Concen: 0.77 ug/L
RT: 12.93 min Scan# 1078
Delta R.T. -0.04 min
Lab File: E2800008.D
Acq: 28 May 2014 11:47 am

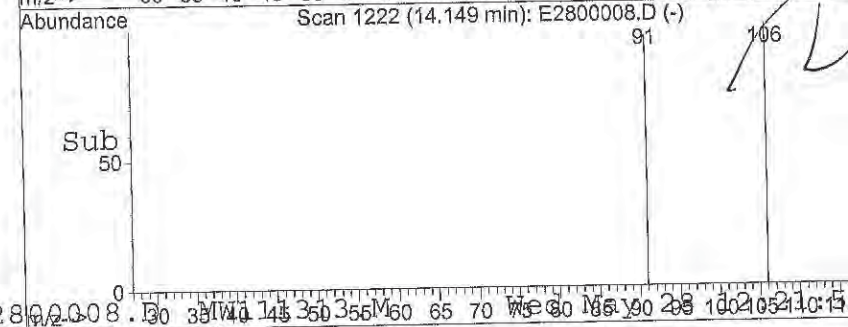
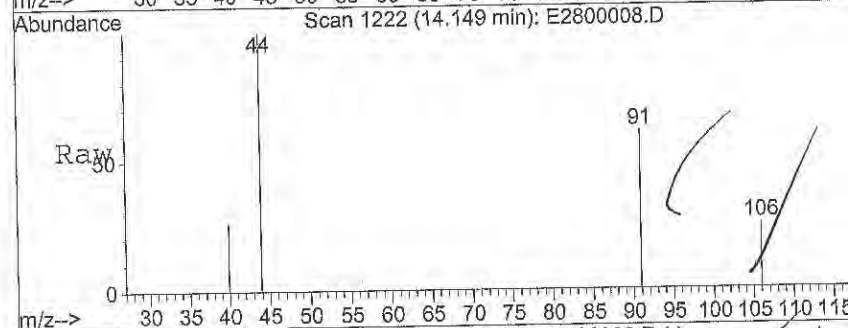
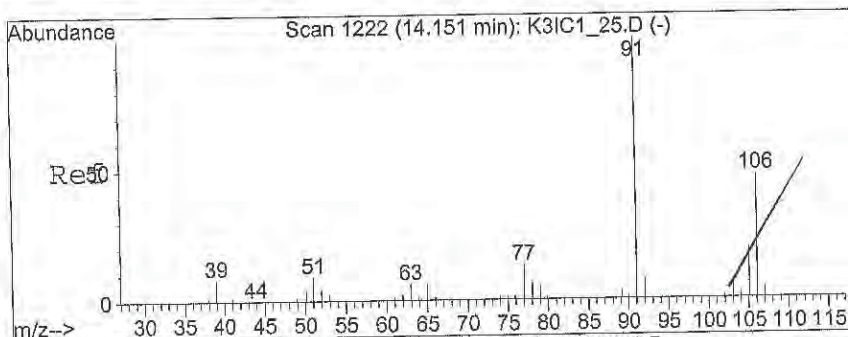
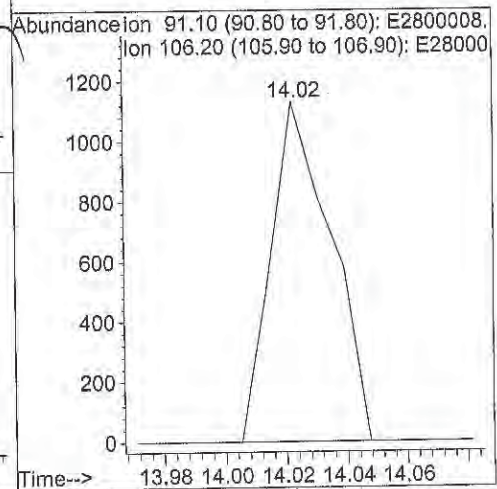
Tgt Ion: 43 Resp: 2227
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#





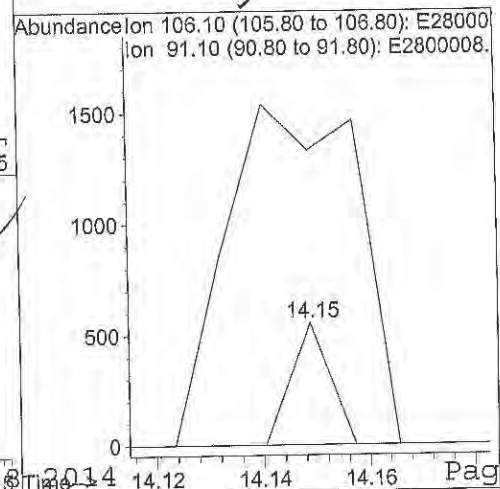
#51
Ethylbenzene
Concen: 0.07 ug/L
RT: 14.02 min Scan# 1207
Delta R.T. -0.00 min
Lab File: E2800008.D
Acq: 28 May 2014 11:47 am

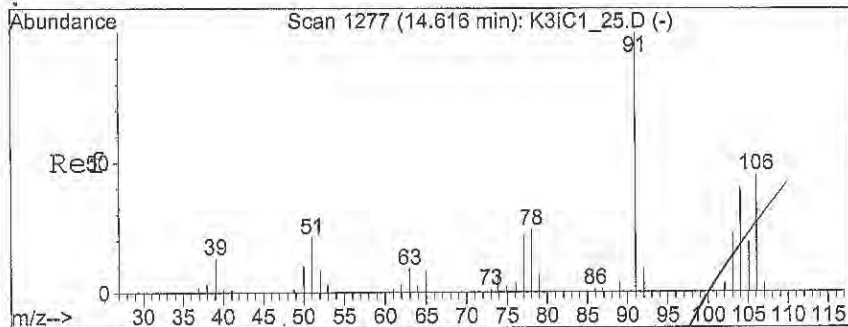
Tgt Ion: 91 Resp: 1536
Ion Ratio Lower Upper
91 100
106 0.0 23.5 35.3#



#52
m,p-Xylenes
Concen: 0.04 ug/L
RT: 14.15 min Scan# 1222
Delta R.T. -0.00 min
Lab File: E2800008.D
Acq: 28 May 2014 11:47 am

Tgt Ion: 106 Resp: 281
Ion Ratio Lower Upper
106 100
91 935.2 177.1 265.7#





#53

o-Xylene

Concen: 0.04 ug/L

RT: 14.61 min Scan# 1277

Delta R.T. -0.00 min

Lab File: E2800008.D

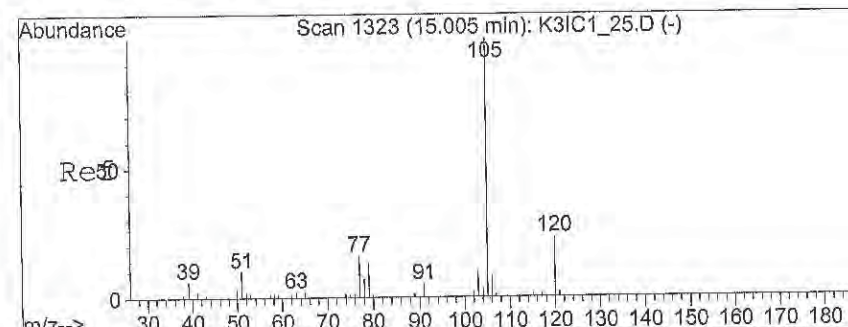
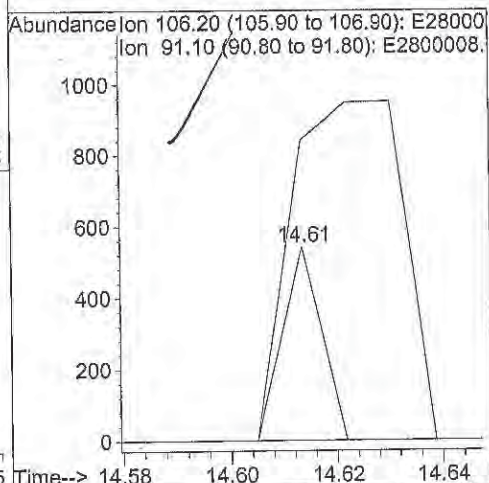
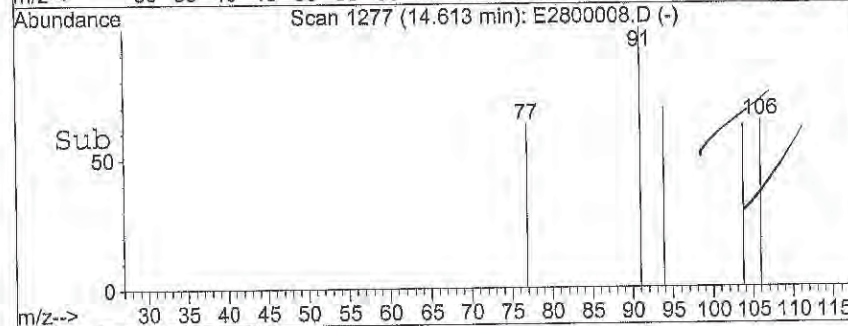
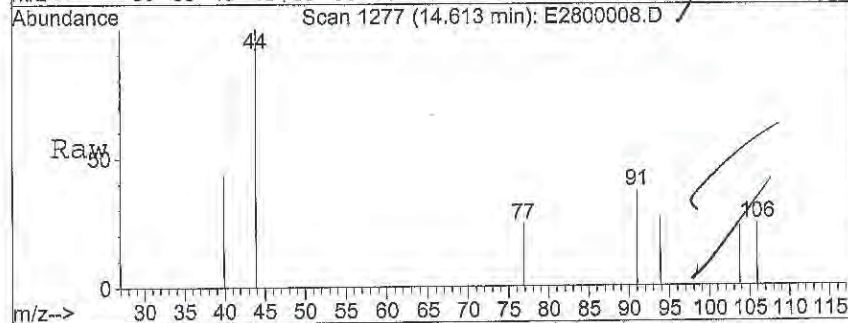
Acq: 28 May 2014 11:47 am

Tgt Ion:106 Resp: 275

Ion Ratio Lower Upper

106 100

91 505.1 179.0 268.6#



#56

Isopropylbenzene

Concen: 0.06 ug/L

RT: 15.23 min Scan# 1350

Delta R.T. 0.23 min

Lab File: E2800008.D

Acq: 28 May 2014 11:47 am

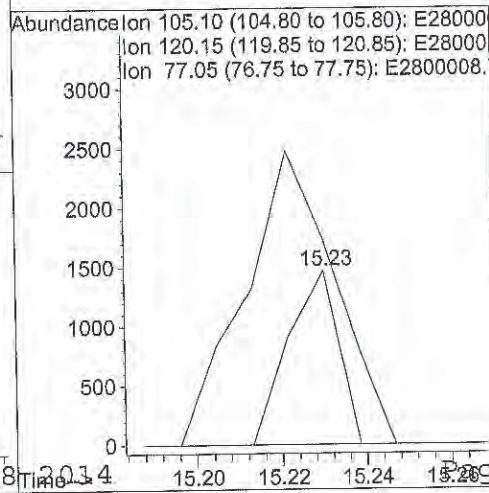
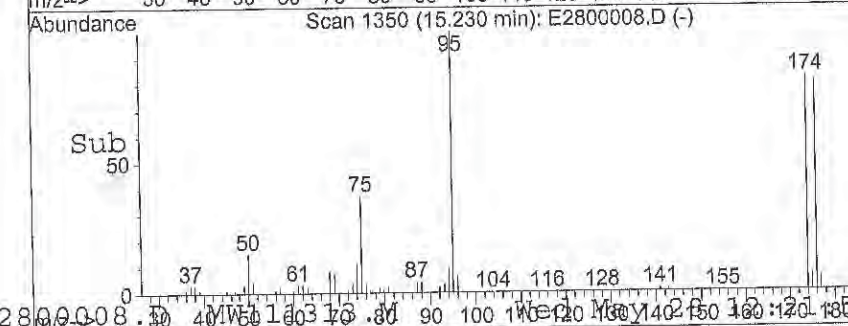
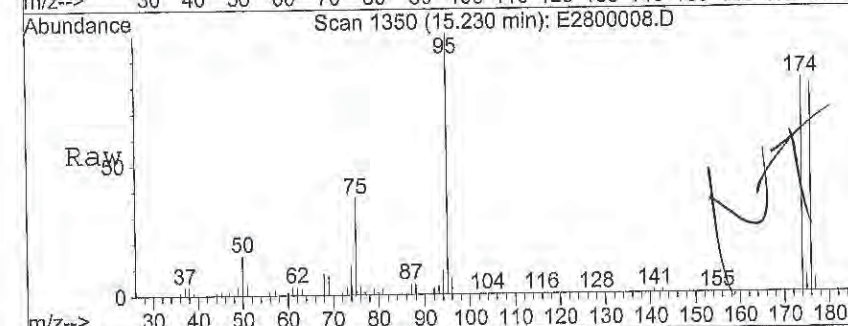
Tgt Ion:105 Resp: 1208

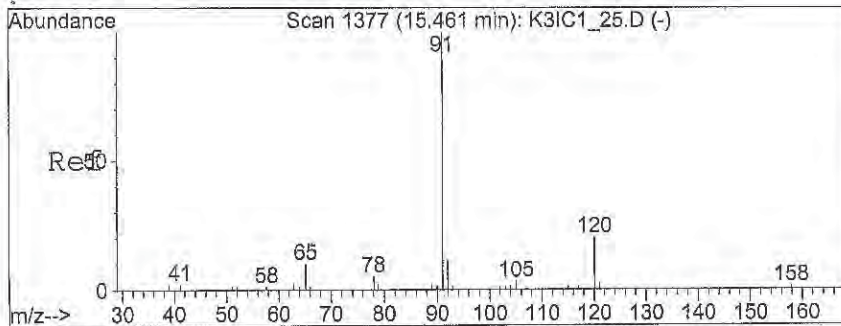
Ion Ratio Lower Upper

105 100

120 0.0 19.3 28.9#

77 300.0 13.1 19.7#





#62

n-Propylbenzene

Concen: 0.02 ug/L

RT: 15.47 min Scan# 1378

Delta R.T. 0.01 min

Lab File: E2800008.D

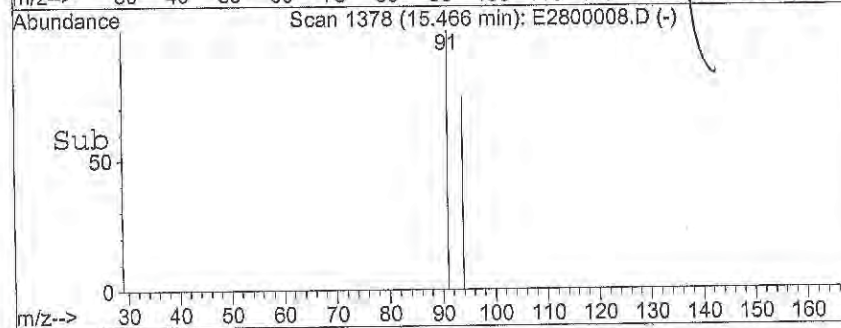
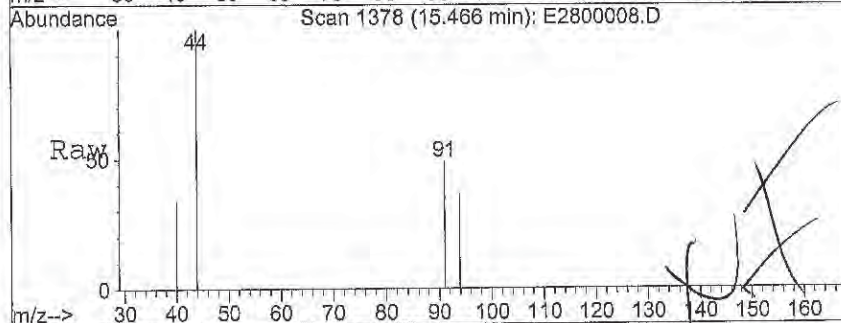
Acq: 28 May 2014 11:47 am

Tgt Ion: 91 Resp: 506

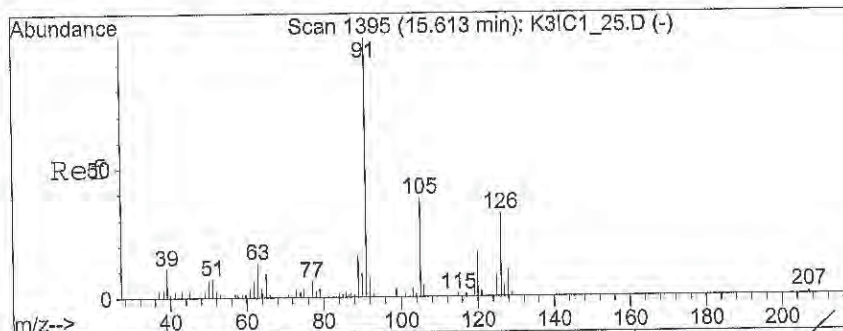
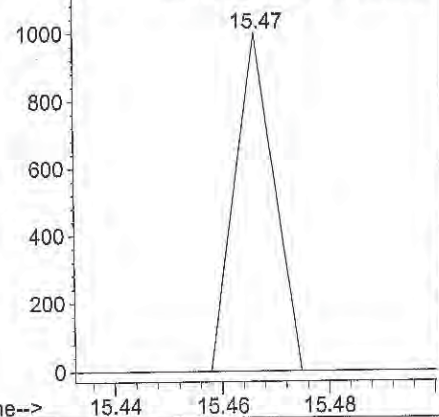
Ion Ratio Lower Upper

91 100

120 0.0 16.1 24.1#



Abundance Ion 91.10 (90.80 to 91.80): E2800008.
Ion 120.15 (119.85 to 120.85): E2800008.



#63

2-Chlorotoluene

Concen: 0.03 ug/L

RT: 15.47 min Scan# 1378

Delta R.T. -0.15 min

Lab File: E2800008.D

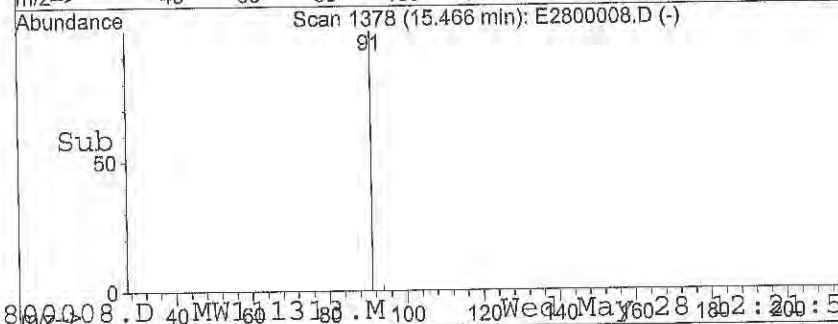
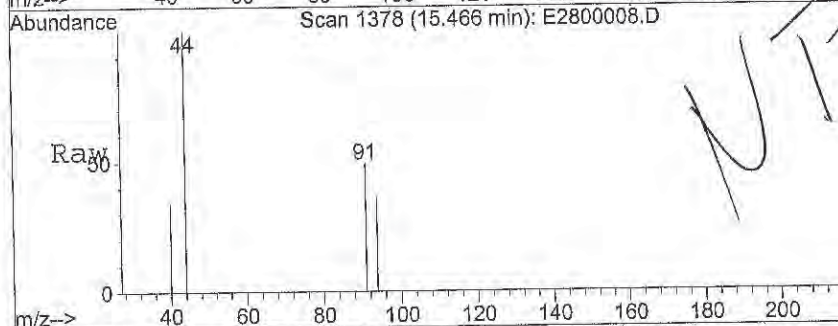
Acq: 28 May 2014 11:47 am

Tgt Ion: 91 Resp: 506

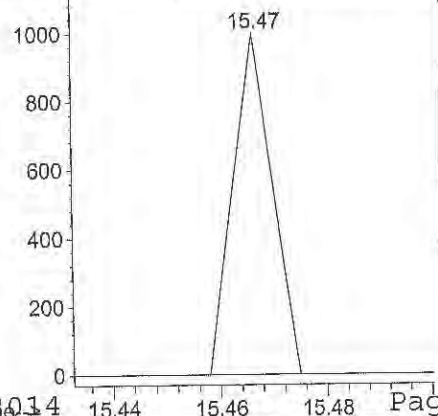
Ion Ratio Lower Upper

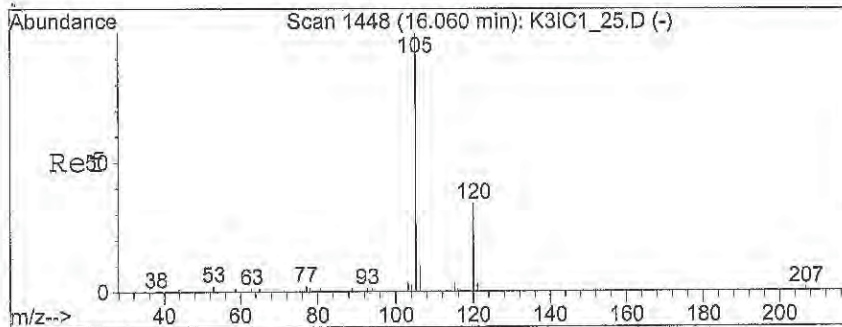
91 100

126 0.0 24.0 36.0#



Abundance Ion 91.10 (90.80 to 91.80): E2800008.
Ion 126.10 (125.80 to 126.80): E2800008.





#67

1,2,4-Trimethylbenzene

Concen: 0.02 ug/L

RT: 16.07 min Scan# 1449

Delta R.T. 0.01 min

Lab File: E2800008.D

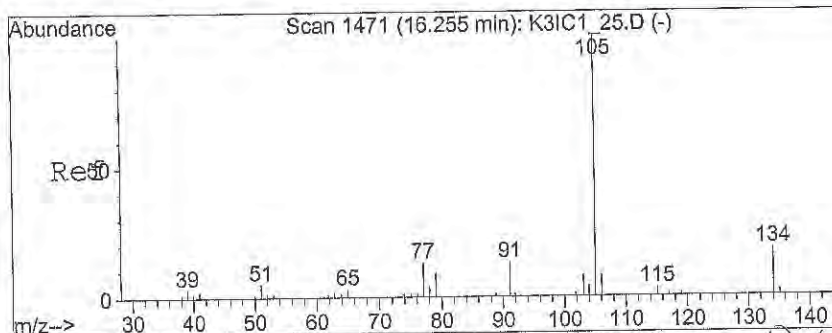
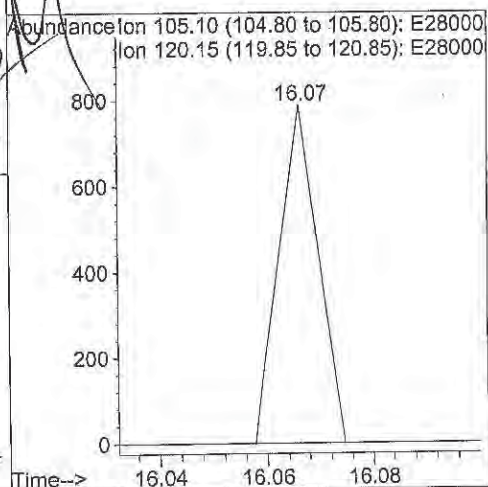
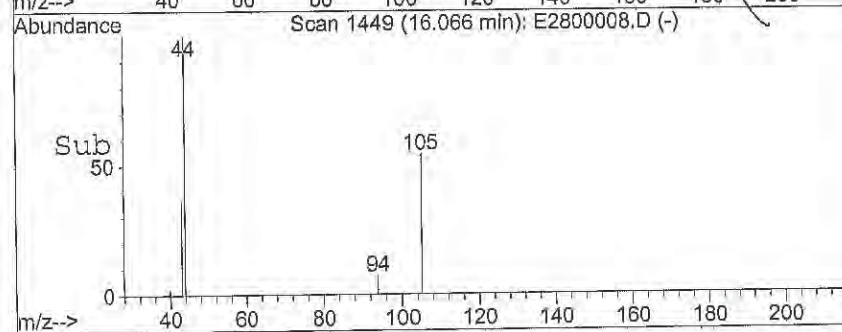
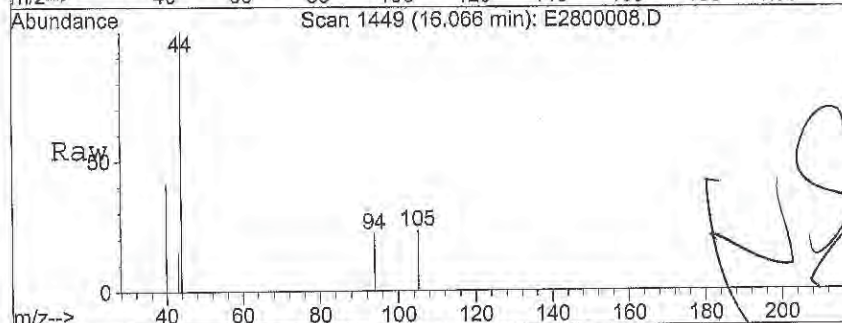
Acq: 28 May 2014 11:47 am

Tgt Ion:105 Resp: 399

Ion Ratio Lower Upper

105 100

120 0.0 33.8 50.8#



#68

sec-Butylbenzene

Concen: 0.05 ug/L

RT: 16.34 min Scan# 1481

Delta R.T. 0.08 min

Lab File: E2800008.D

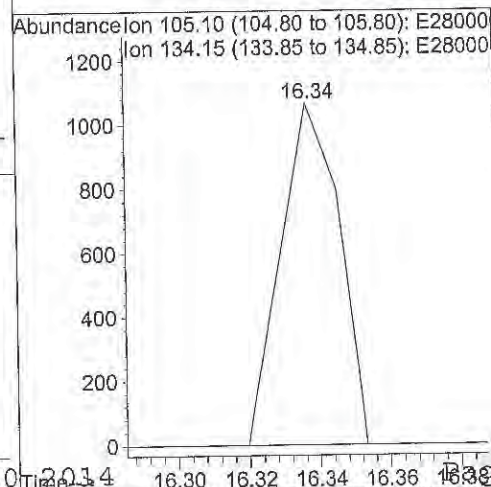
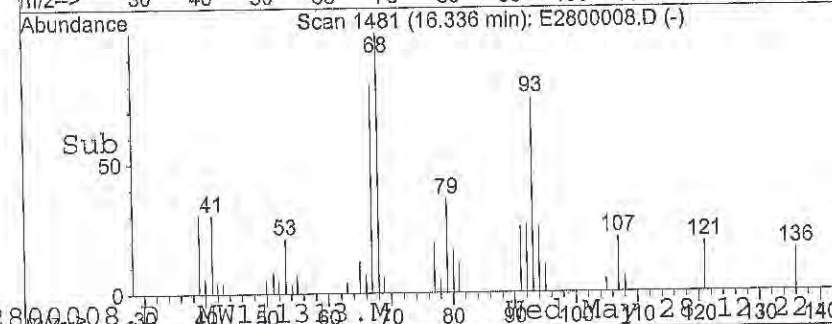
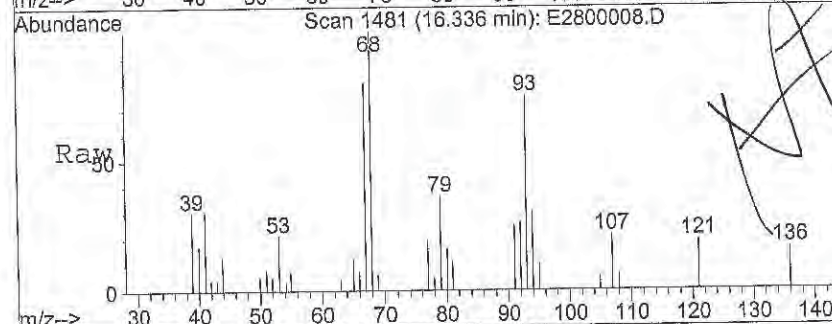
Acq: 28 May 2014 11:47 am

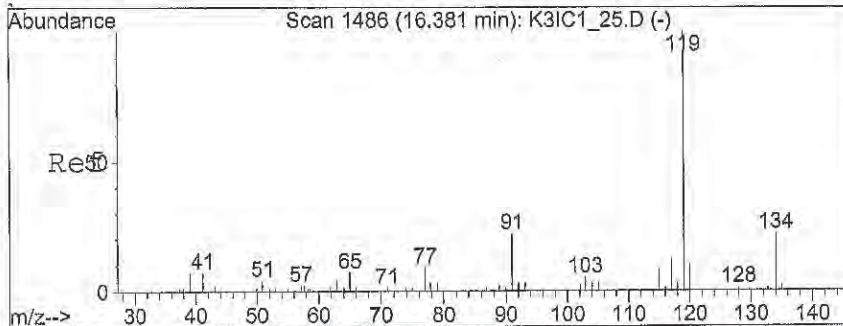
Tgt Ion:105 Resp: 1218

Ion Ratio Lower Upper

105 100

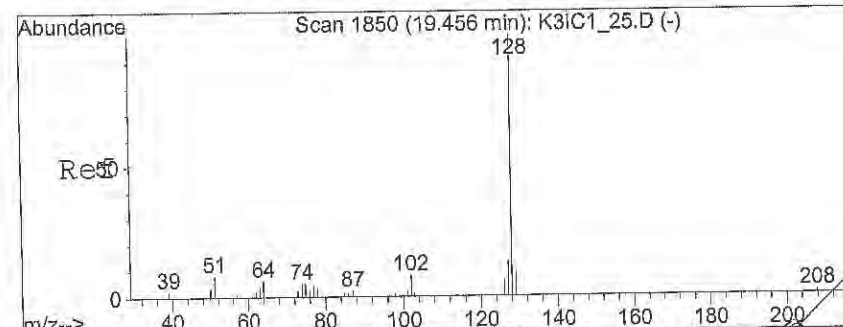
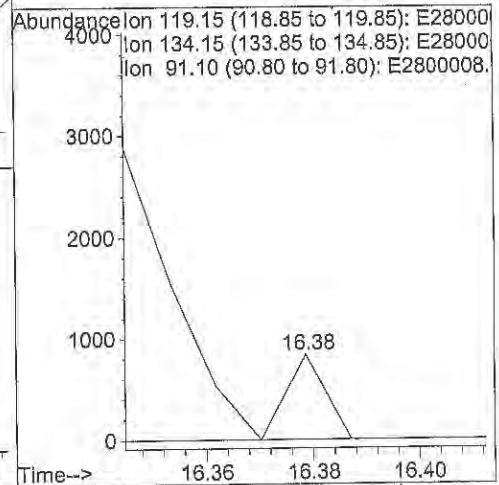
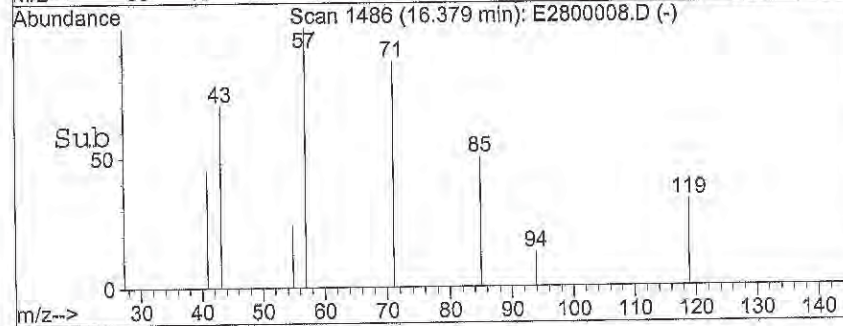
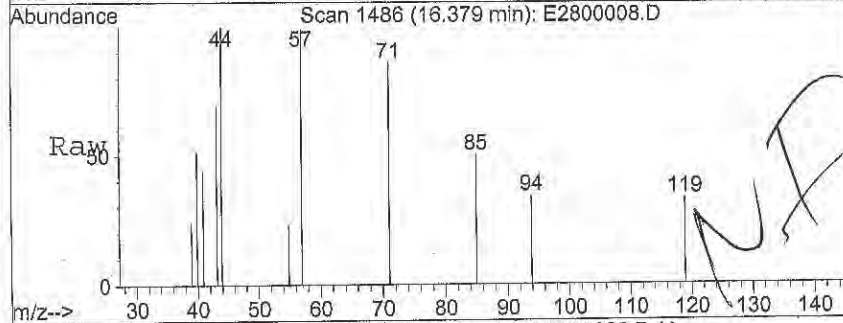
134 0.0 13.0 19.6#





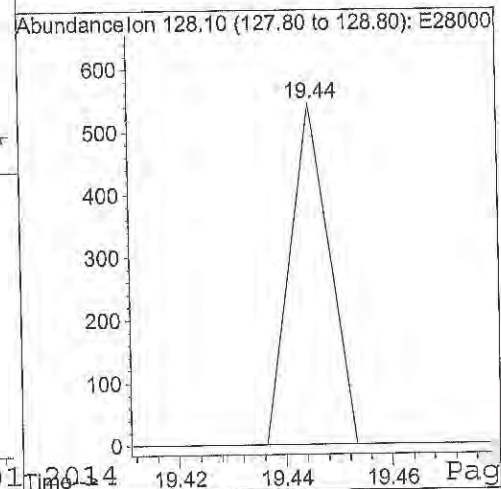
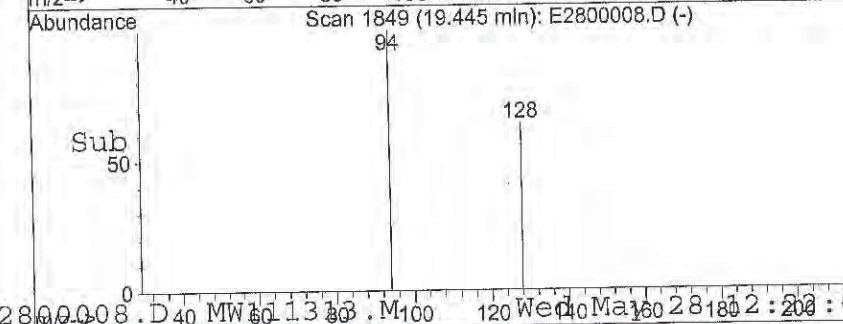
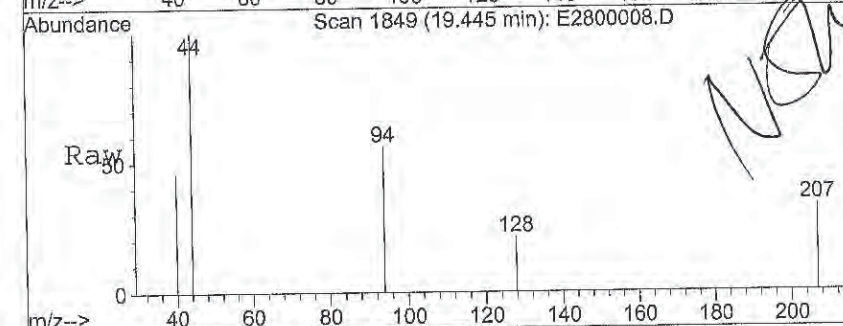
#69
p-Isopropyltoluene
Concen: 0.02 ug/L
RT: 16.38 min Scan# 1486
Delta R.T. -0.00 min
Lab File: E2800008.D
Acq: 28 May 2014 11:47 am

Tgt Ion: 119 Resp: 423
Ion Ratio Lower Upper
119 100
134 0.0 17.4 26.2#
91 0.0 19.6 29.4#



#77
Naphthalene
Concen: 0.02 ug/L
RT: 19.44 min Scan# 1849
Delta R.T. -0.01 min
Lab File: E2800008.D
Acq: 28 May 2014 11:47 am

Tgt Ion: 128 Resp: 276



Data File : C:\HPCHEM\1\DATA\052814L3\E2800008.D
 Acq On : 28 May 2014 11:47 am
 Sample : 3E42801-07
 Misc : 100cc SVL-516-SA5D-SV-6.0-7.0
 MS Integration Params: rteint.p
 Quant Time: May 28 12:23 19114

Vial: 7
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1702842	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.92	117	1327452	12.50	ug/L	0.00
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	706606	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	476094	10.75	ug/L	0.00
Spiked Amount	12.500	Range 75 - 125	Recovery	=	86.00%	
3) Chloroform-d (SU6)	9.18	84	707571	11.14	ug/L	0.00
Spiked Amount	12.500	Range 70 - 140	Recovery	=	89.12%	
4) Methylene Chloride-d2 (SU5)	7.06	86	414968	11.17	ug/L	-0.02
Spiked Amount	12.500	Range 70 - 140	Recovery	=	89.36%	
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	450359	14.88	ug/L	0.00
Spiked Amount	12.500	Range 75 - 125	Recovery	=	119.04%	
6) Benzene-d6 (SU7)	9.93	84	1387995	10.39	ug/L	-0.03
Spiked Amount	12.500	Range 70 - 140	Recovery	=	83.12%	
8) Toluene-d8 (SU3)	12.21	98	1487149	11.81	ug/L	-0.02
Spiked Amount	12.500	Range 75 - 125	Recovery	=	94.48%	
9) 4-Bromofluorobenzene (SU4)	15.22	95	713660	13.73	ug/L	0.00
Spiked Amount	12.500	Range 75 - 125	Recovery	=	109.84%	

Target Compounds

Qvalue

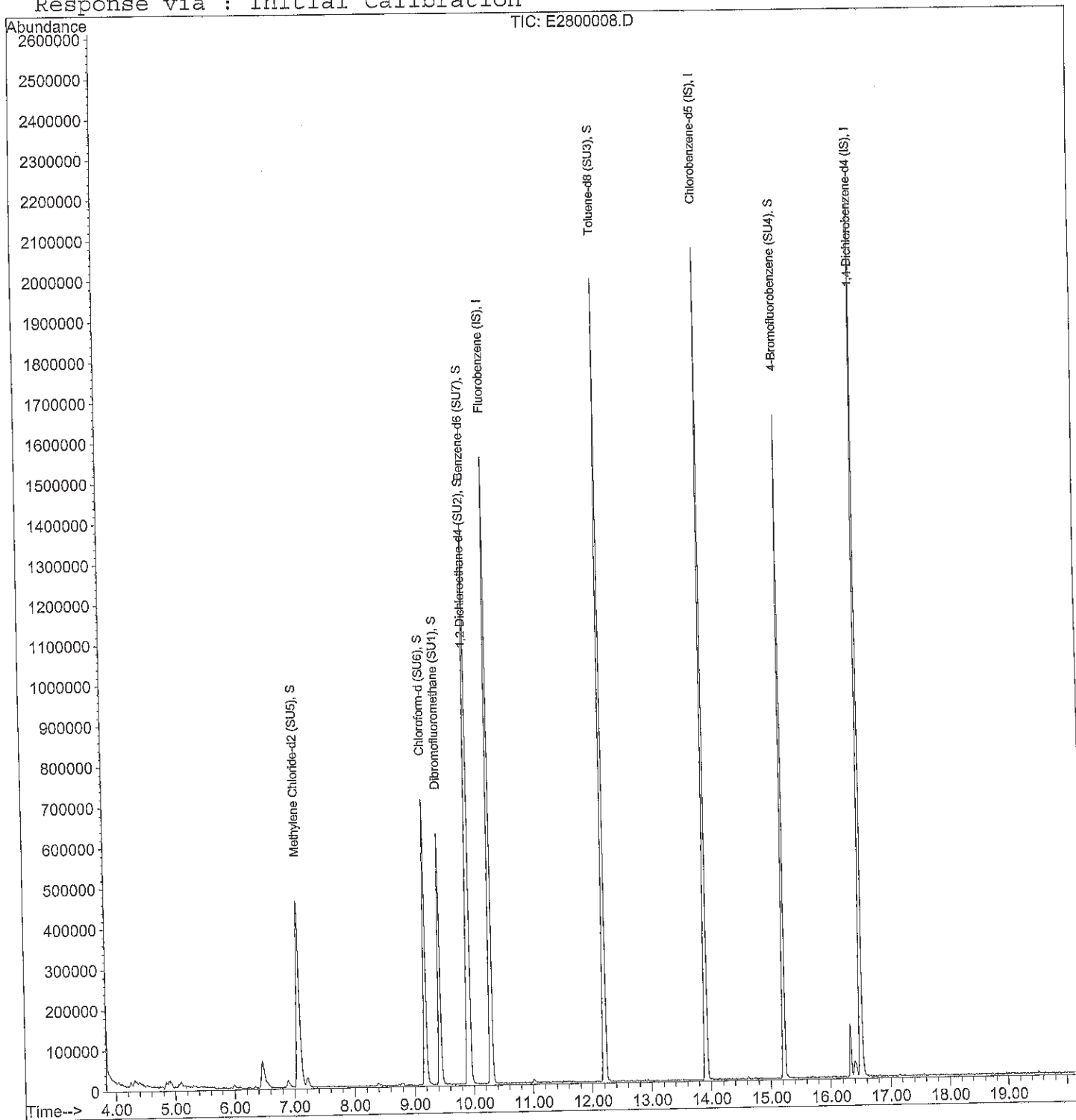
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800008.D
Acq On : 28 May 2014 11:47 am
Sample : 3E42801-07
Misc : 100cc SVL-516-SA5D-SV-6.0-7.0
MS Integration Params: rteint.p
Quant Time: May 28 12:23 19114

Vial: 7
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
Last Update : Mon Nov 18 10:31:39 2013
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052814L3\E2800009.D
 Acq On : 28 May 2014 12:16 pm
 Sample : 3E42801-08
 Misc : 100cc SVL-516-SA5D-SV-14.0-15.0
 MS Integration Params: rteint.p
 Quant Time: May 28 12:39 19114

Vial: 8
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1630177	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1266889	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	700521	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	470798	11.58	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	92.64%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	448247	11.60	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	92.80%
39) Toluene-d8 (SU3)	12.20	98	1416688	11.99	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.92%
58) 4-Bromofluorobenzene (SU4)	15.22	95	724371	13.98	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	111.84%

Target Compounds

					Ovalue	
4) Chloromethane	4.41	50	7133	1.39	ug/L	# 66
6) Bromomethane	5.08	96	4550	0.76	ug/L	# 1
7) Chloroethane	5.23	64	2108	2.24	ug/L	# 32
8) (F11) Trichlorofluorometha	5.64	101	1569	0.35	ug/L	# 16
9) (F113) 1,1,2-Trichloro-tri	6.34	151	3852	1.20	ug/L	# 0.02453
11) Acetone	6.45	58	1827	180.85	ug/L	# 1
12) (IPA) Leak Check Compound	6.47	45	159436	813.91	ug/L	# 83
13) Carbon disulfide	6.84	76	17001	1.25	ug/L	# 94
14) Methylene Chloride	7.07	84	5854	1.31	ug/L	# 1
15) (TBA) tert-Butanol	6.89	59	2399	8.63	ug/L	# 77
24) Chloroform	9.21	83	1362	0.16	ug/L	# 18
25) (ETBE) 2-ethoxy 2-methyl p	8.46	59	270	0.02	ug/L	# 44
29) 1,1-Dichloropropene	9.92	75	296	0.05	ug/L	# 1
31) Benzene	9.98	78	2629	0.17	ug/L	# 69
32) 1,2-Dichloroethane	9.92	62	6134	1.13	ug/L	# 1
40) (MIBK) 4-Methyl-2-Pentanone	12.19	43	7671	3.03	ug/L	# 100
41) Toluene	12.30	91	3995	0.23	ug/L	# 0.0046
46) 2-Hexanone	12.93	43	1862	0.67	ug/L	# 37
51) Ethylbenzene	14.02	91	1789	0.09	ug/L	# 0.00187
52) m,p-Xylenes	14.15	106	1170	0.17	ug/L	# 0.0034
54) Styrene	14.64	104	1932	-0.68	ug/L	# 57
56) Isopropylbenzene	15.00	105	328	0.02	ug/L	# 55

(#) = qualifier out of range (m) = manual integration
 E2800009.D MW111313.M Wed May 28 12:40:00 2014

Data File : C:\HPCHEM\1\DATA\052814L3\E2800009.D

Vial: 8

Acq On : 28 May 2014 12:16 pm

Operator: DN

Sample : 3E42801-08

Inst : GC/MS Ins

Misc : 100cc SVL-516-SA5D-SV-14.0-15.0

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 12:39 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
62) n-Propylbenzene	15.45	91	362	0.01	ug/L # 56	
63) 2-Chlorotoluene	15.45	91	362	0.02	ug/L # 45	
68) sec-Butylbenzene	16.33	105	924	0.04	ug/L # 62	
69) p-Isopropyltoluene	16.38	119	256	0.01	ug/L # 52	

(#) = qualifier out of range (m) = manual integration

E2800009.D MW111313.M

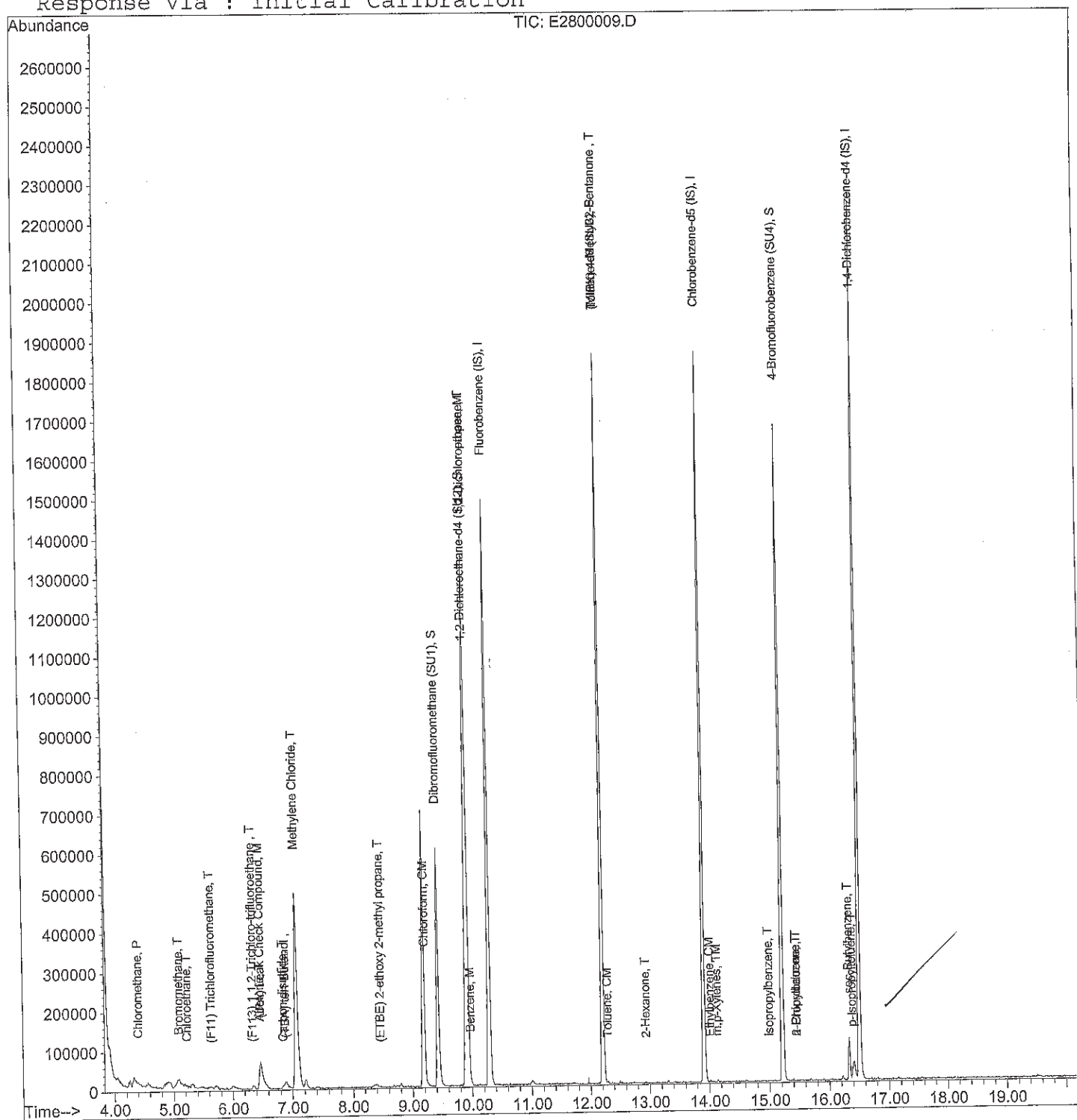
Wed May 28 12:40:01 2014

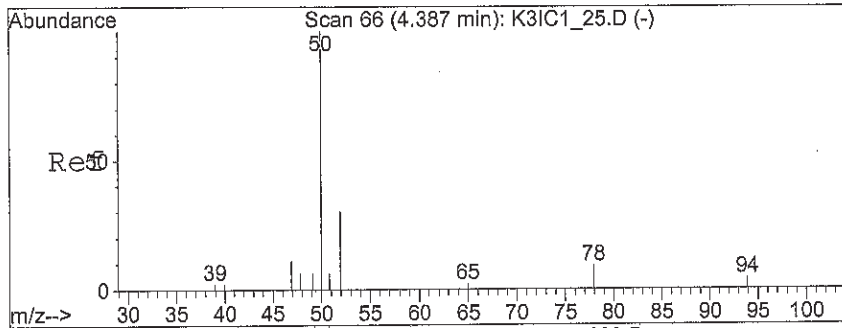
Data File : C:\HPCHEM\1\DATA\052814L3\E2800009.D
Acq On : 28 May 2014 12:16 pm
Sample : 3E42801-08
Misc : 100cc SVL-516-SA5D-SV-14.0-15.0
MS Integration Params: rteint.p
Quant Time: May 28 12:39 19114

Vial: 8
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

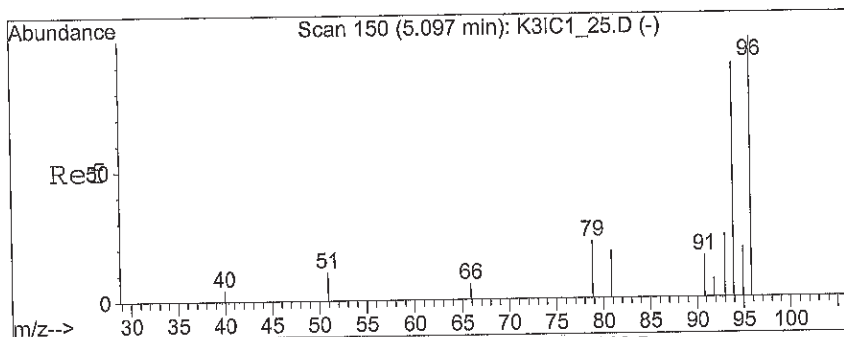
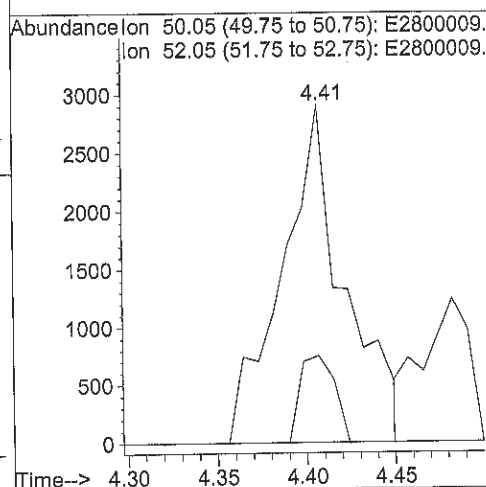
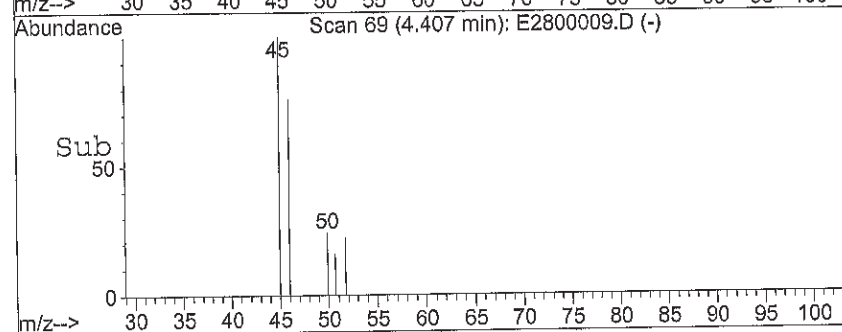
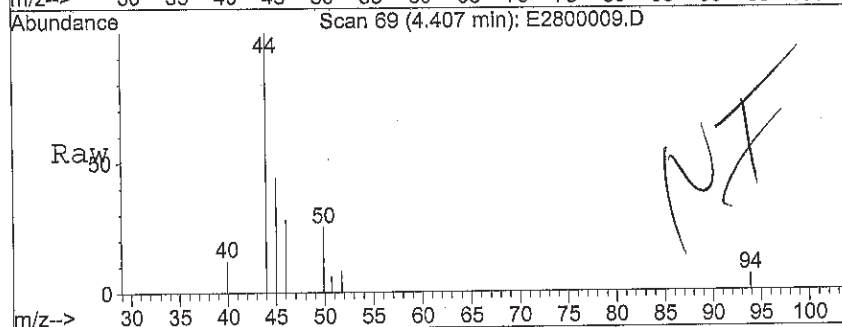
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Method       : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title        : 8260B      GC/MS #3      ICAL 11/13/13      DN
Last Update   : Wed Nov 13 19:38:32 2013
Response via  : Initial Calibration
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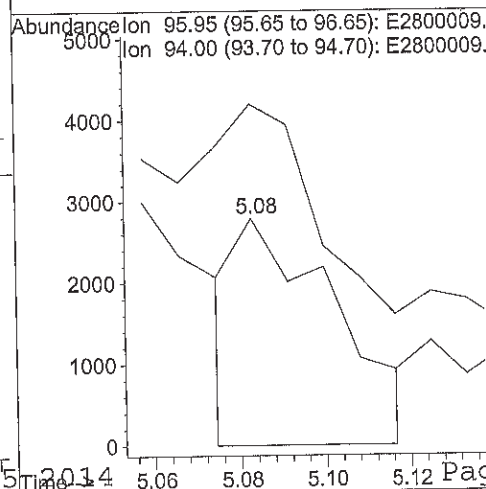
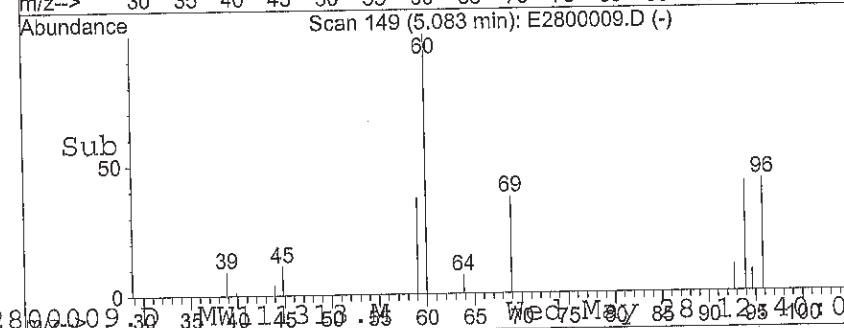
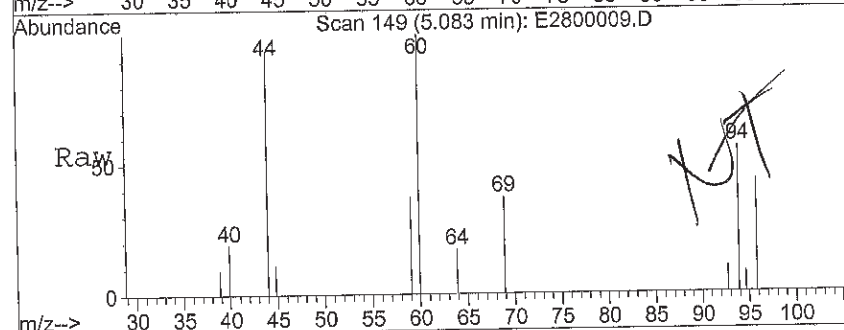
#4
 Chloromethane
 Concen: 1.39 ug/L
 RT: 4.41 min Scan# 69
 Delta R.T. 0.02 min
 Lab File: E2800009.D
 Acq: 28 May 2014 12:16 pm

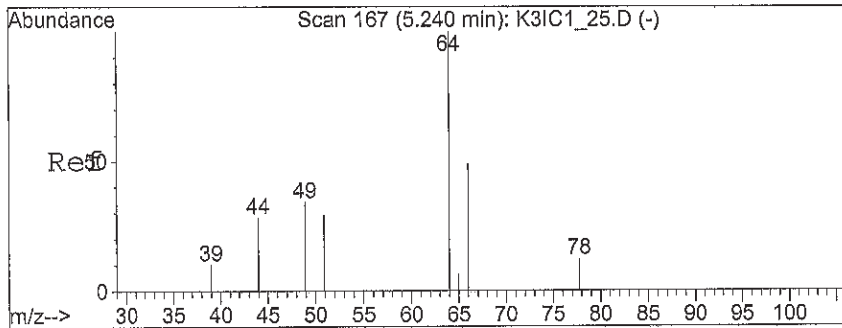
Tgt Ion: 50 Resp: 7133
 Ion Ratio Lower Upper
 50 100
 52 14.1 26.9 40.3#



#6
 Bromomethane
 Concen: 0.76 ug/L
 RT: 5.08 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: E2800009.D
 Acq: 28 May 2014 12:16 pm

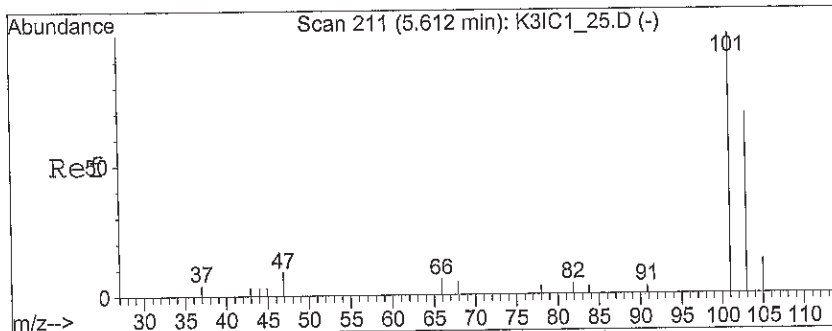
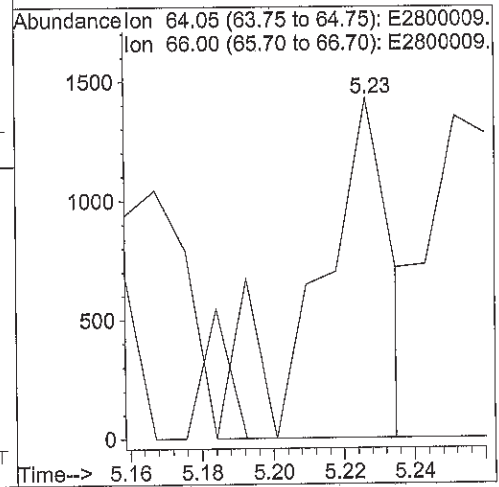
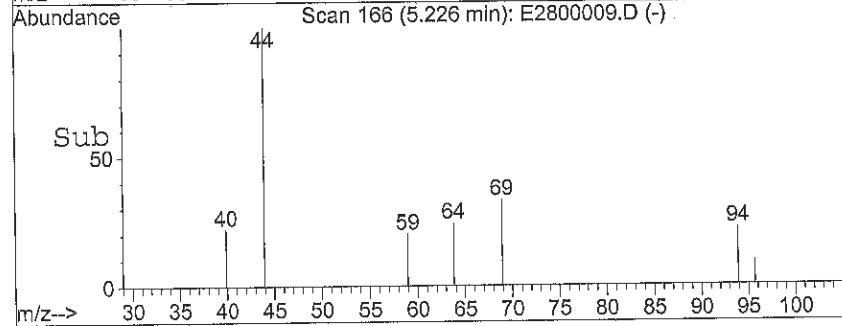
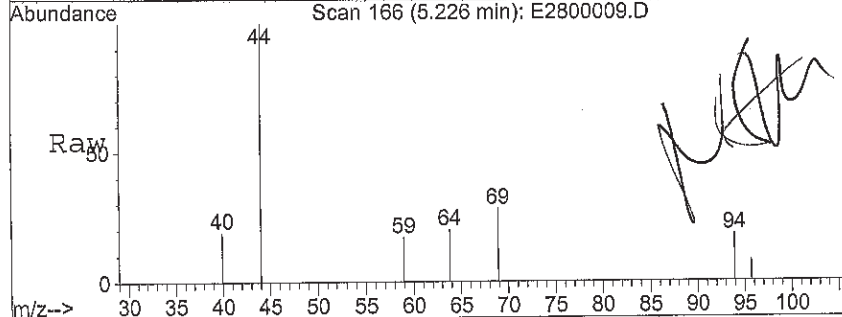
Tgt Ion: 96 Resp: 4550
 Ion Ratio Lower Upper
 96 100
 94 560.5 101.0 151.4#





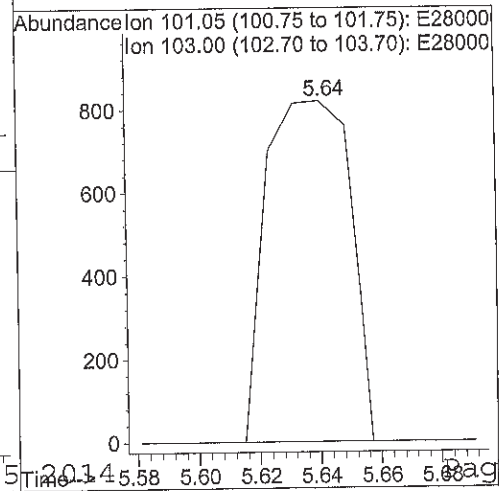
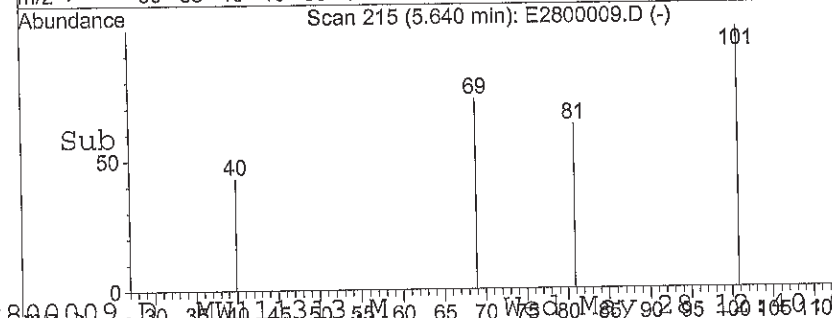
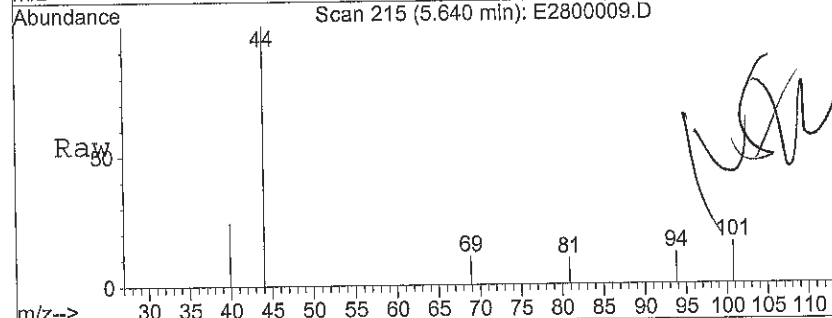
#7
 Chloroethane
 Concen: 2.24 ug/L
 RT: 5.23 min Scan# 166
 Delta R.T. -0.01 min
 Lab File: E2800009.D
 Acq: 28 May 2014 12:16 pm

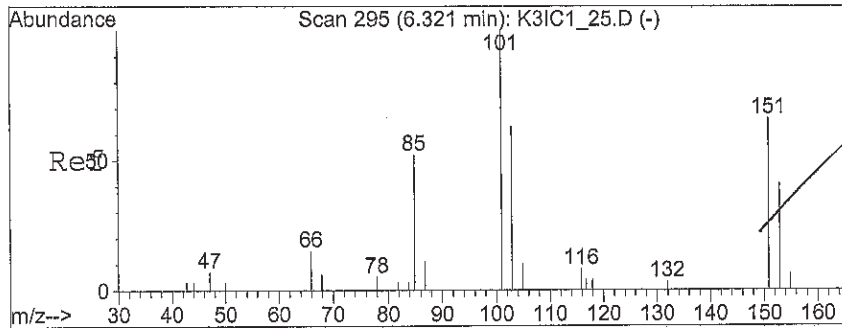
Tgt Ion: 64 Resp: 2108
 Ion Ratio Lower Upper
 64 100
 66 0.0 35.4 53.0#



#8
 (F11) Trichlorofluoromethane
 Concen: 0.35 ug/L
 RT: 5.64 min Scan# 215
 Delta R.T. 0.03 min
 Lab File: E2800009.D
 Acq: 28 May 2014 12:16 pm

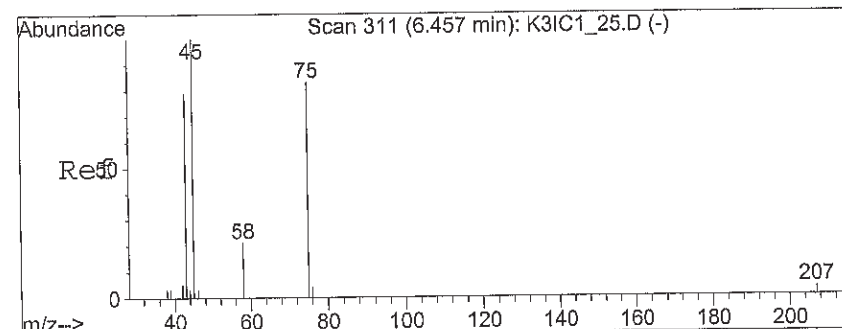
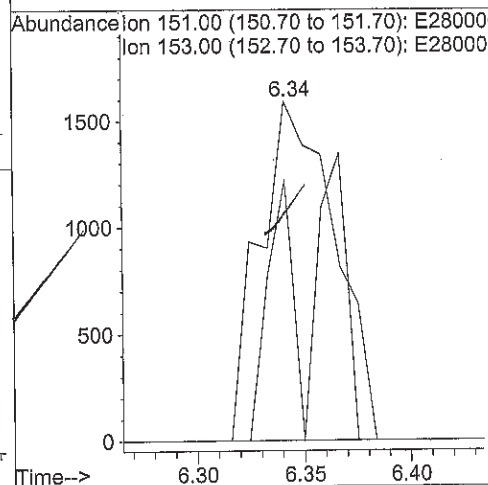
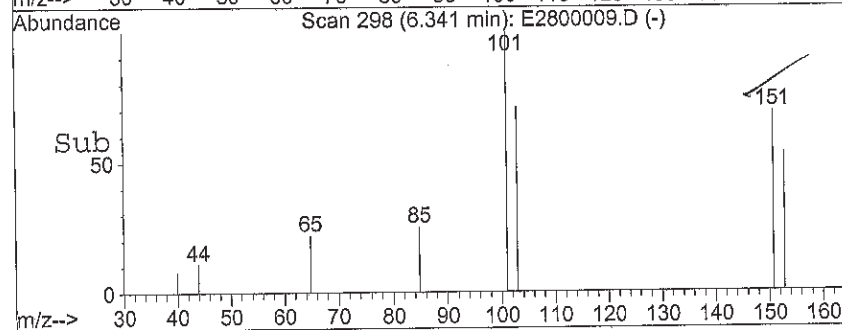
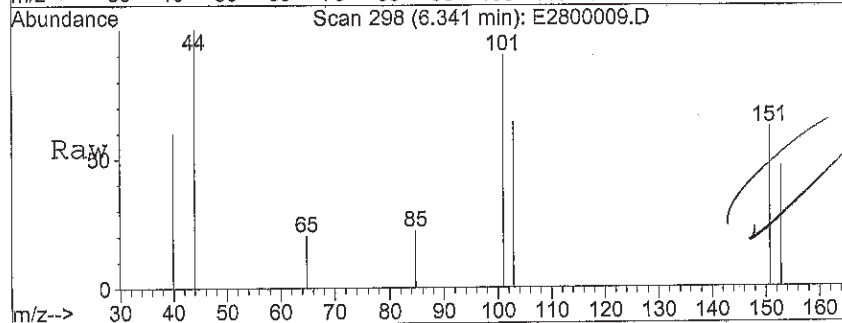
Tgt Ion: 101 Resp: 1569
 Ion Ratio Lower Upper
 101 100
 103 0.0 54.5 81.7#





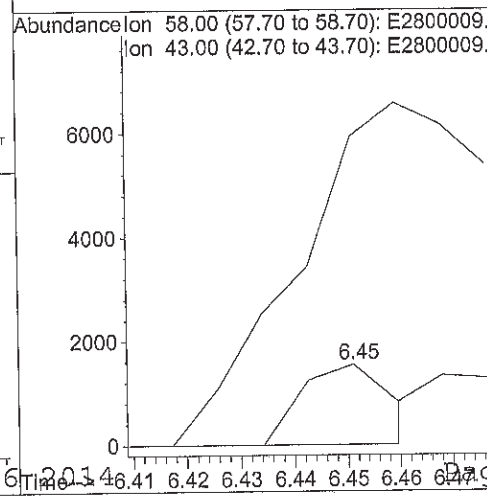
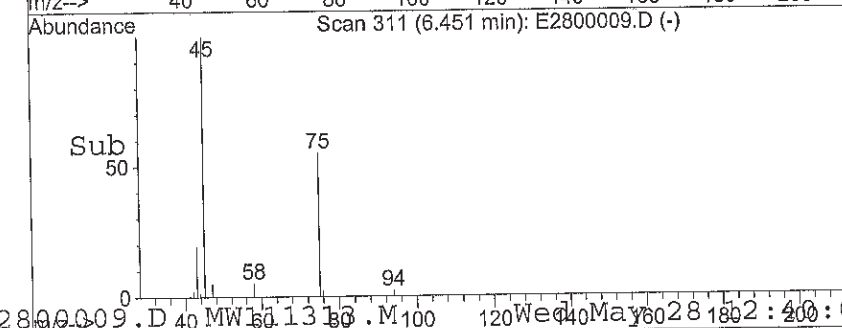
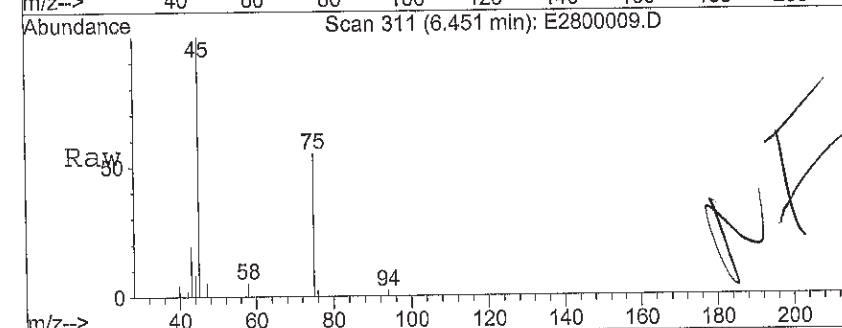
#9
 (F113) 1,1,2-Trichloro-trifluor
 Concen: 1.20 ug/L
 RT: 6.34 min Scan# 298
 Delta R.T. 0.02 min
 Lab File: E2800009.D
 Acq: 28 May 2014 12:16 pm

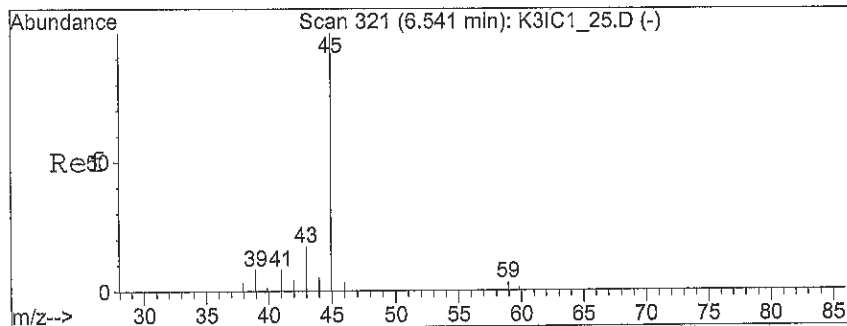
Tgt Ion: 151 Resp: 3852
 Ion Ratio Lower Upper
 151 100
 153 26.2 49.6 74.4#



#11
 Acetone
 Concen: 180.85 ug/L
 RT: 6.45 min Scan# 311
 Delta R.T. -0.01 min
 Lab File: E2800009.D
 Acq: 28 May 2014 12:16 pm

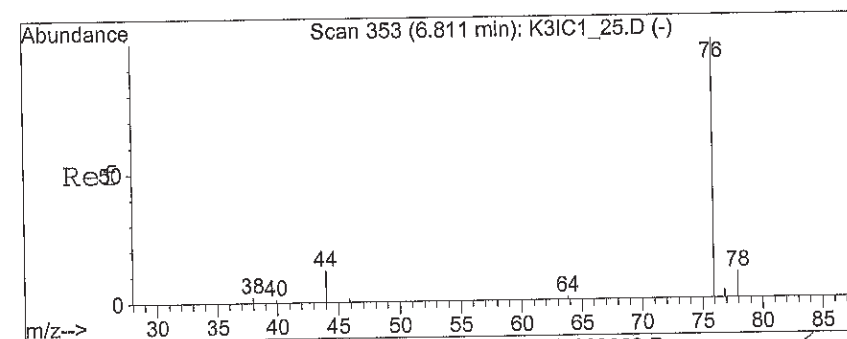
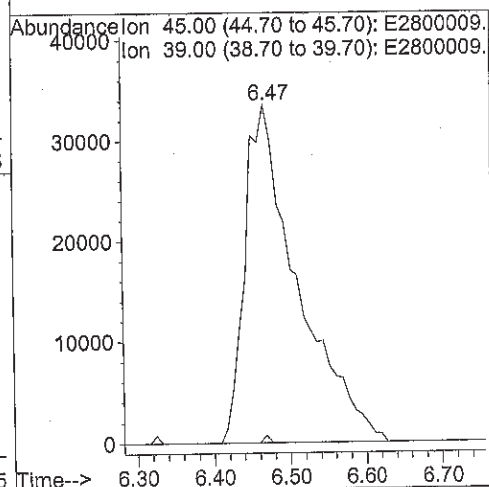
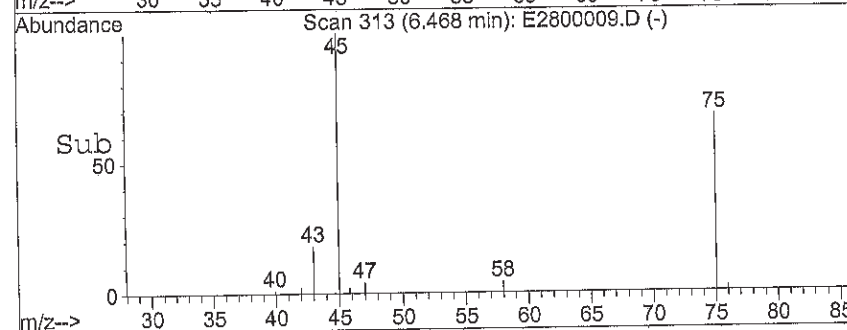
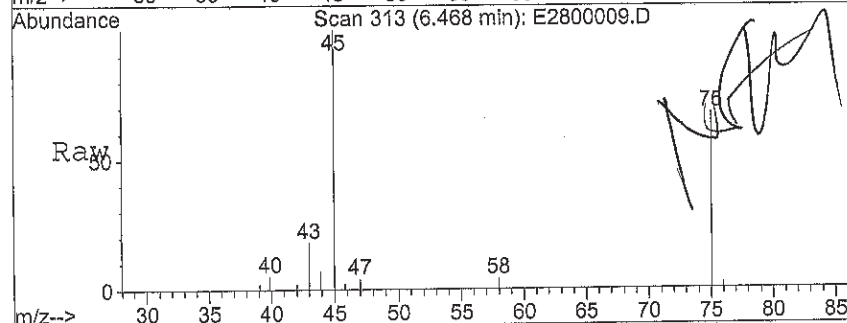
Tgt Ion: 58 Resp: 1827
 Ion Ratio Lower Upper
 58 100
 43 0.0 360.9 541.3#





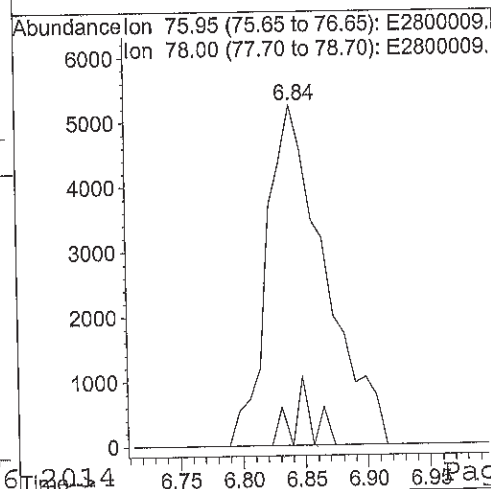
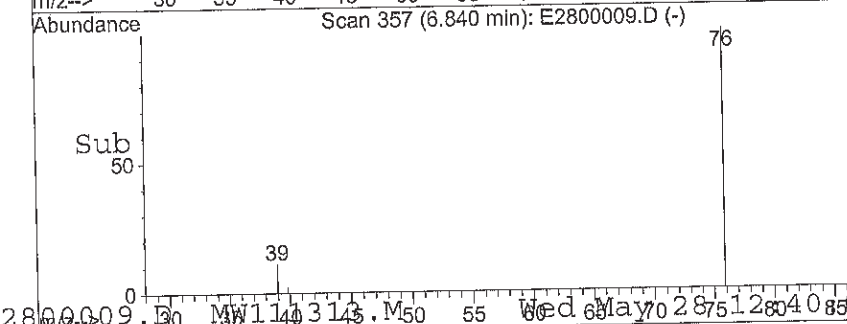
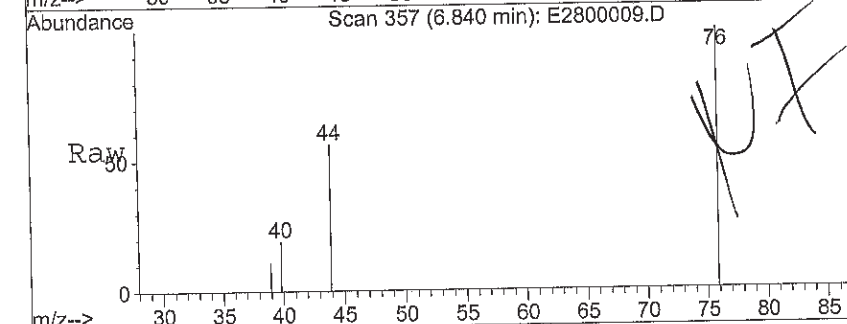
#12
 (IPA) Leak Check Compound
 Concen: 813.91 ug/L
 RT: 6.47 min Scan# 313
 Delta R.T. -0.07 min
 Lab File: E2800009.D
 Acq: 28 May 2014 12:16 pm

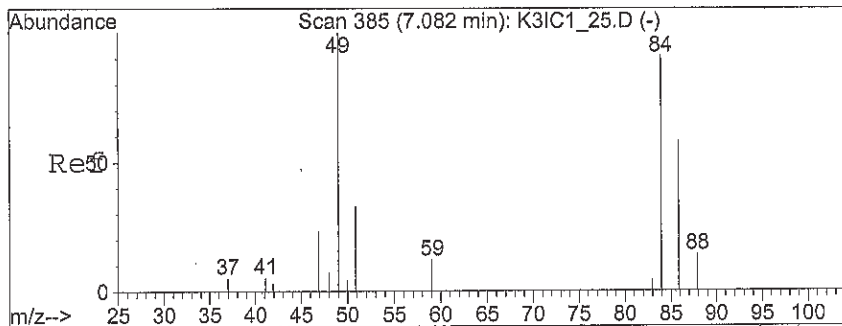
Tgt Ion: 45 Resp: 159436
 Ion Ratio Lower Upper
 45 100
 39 0.2 4.9 7.3#



#13
 Carbon disulfide
 Concen: 1.25 ug/L
 RT: 6.84 min Scan# 357
 Delta R.T. 0.03 min
 Lab File: E2800009.D
 Acq: 28 May 2014 12:16 pm

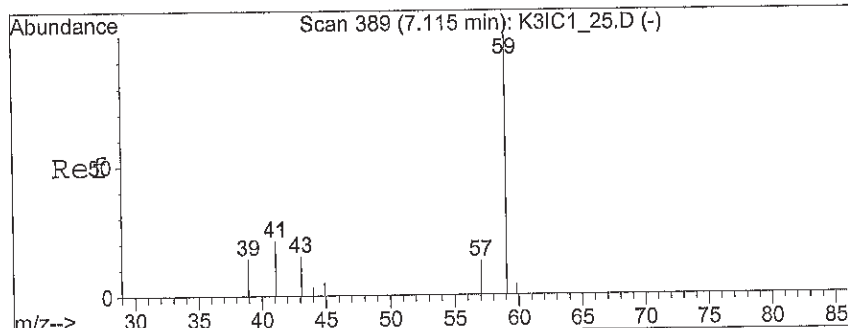
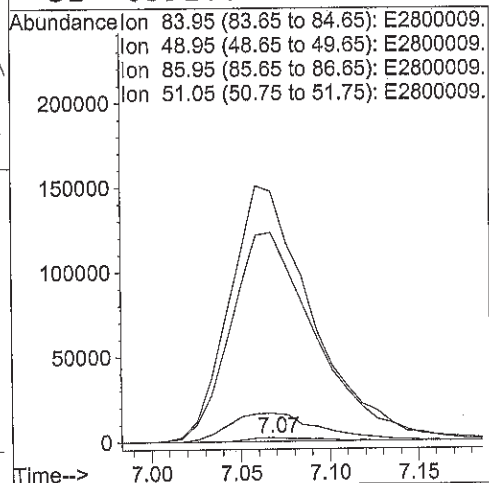
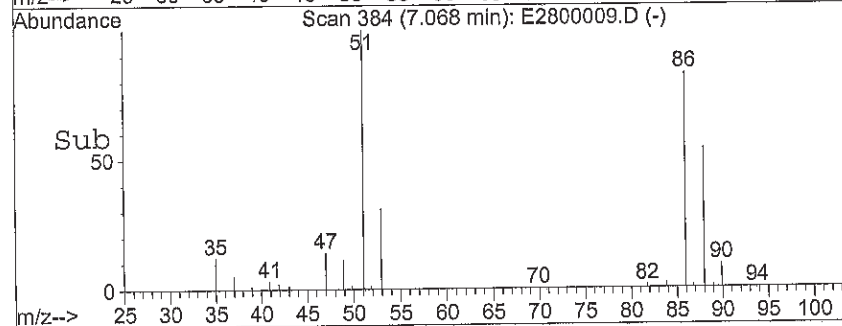
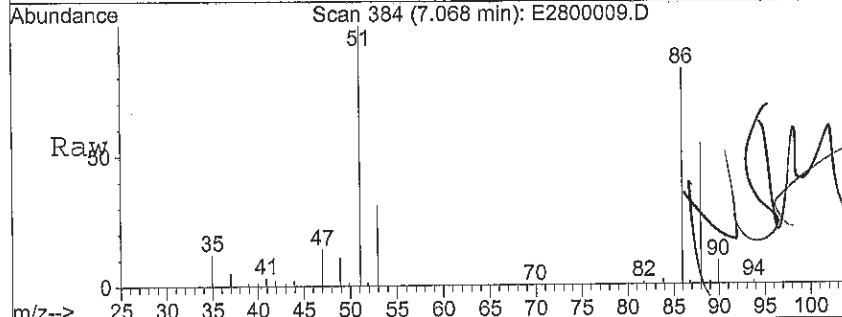
Tgt Ion: 76 Resp: 17001
 Ion Ratio Lower Upper
 76 100
 78 6.7 7.0 10.4#





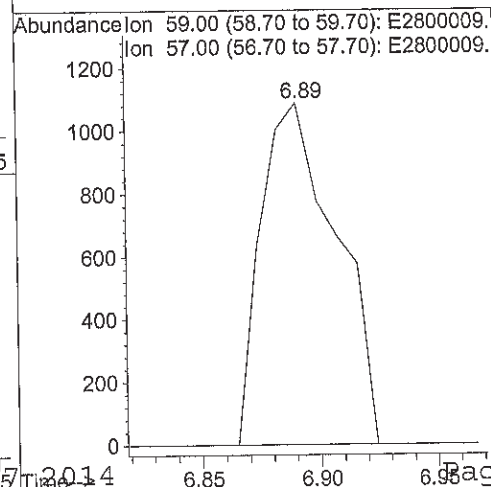
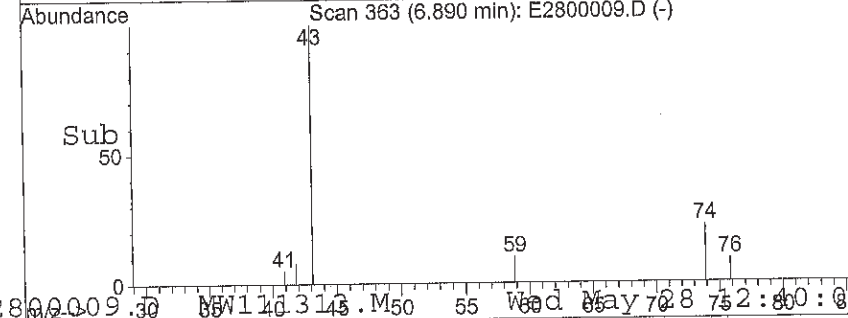
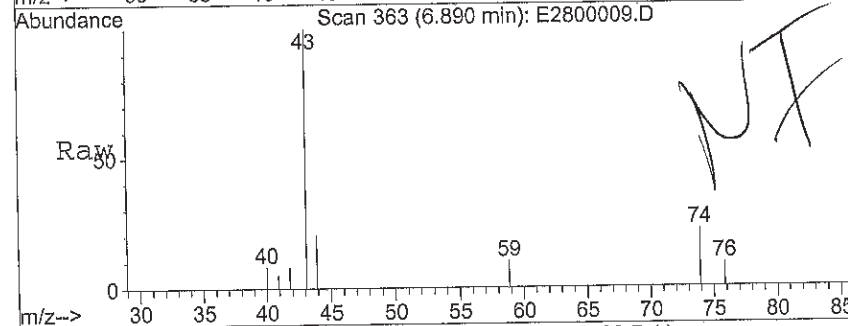
#14
Methylene Chloride
Concen: 1.31 ug/L
RT: 7.07 min Scan# 384
Delta R.T. -0.01 min
Lab File: E2800009.D
Acq: 28 May 2014 12:16 pm

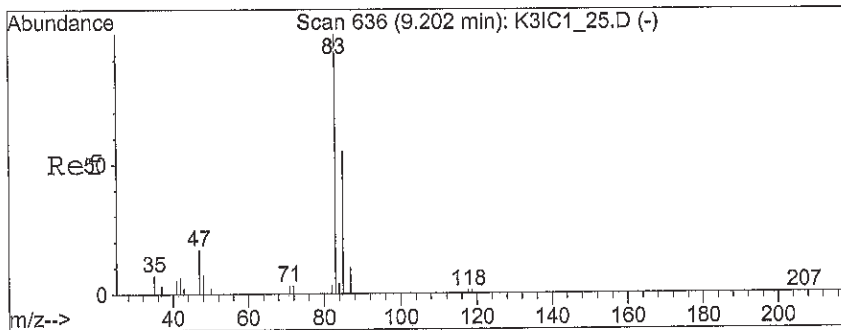
Tgt Ion:	84	Resp:	5854
Ion	Ratio	Lower	Upper
84	100		
49	998.3	89.8	134.6#
86	7073.7	51.1	76.7#
51	8391.0	28.5	42.7#



#15
(TBA) tert-Butanol
Concen: 8.63 ug/L
RT: 6.89 min Scan# 363
Delta R.T. -0.23 min
Lab File: E2800009.D
Acq: 28 May 2014 12:16 pm

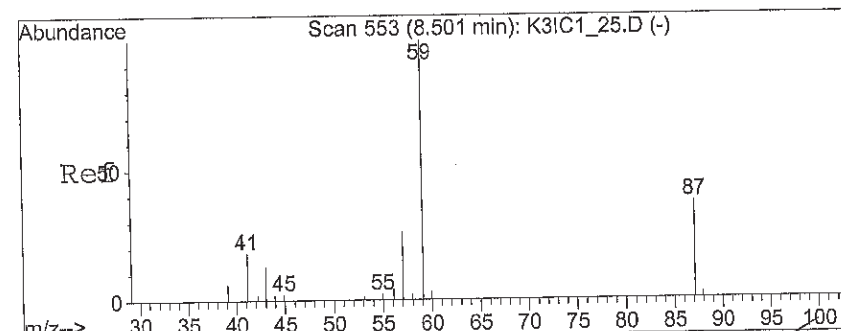
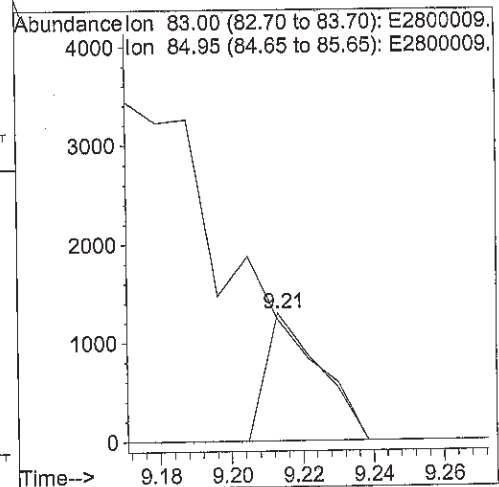
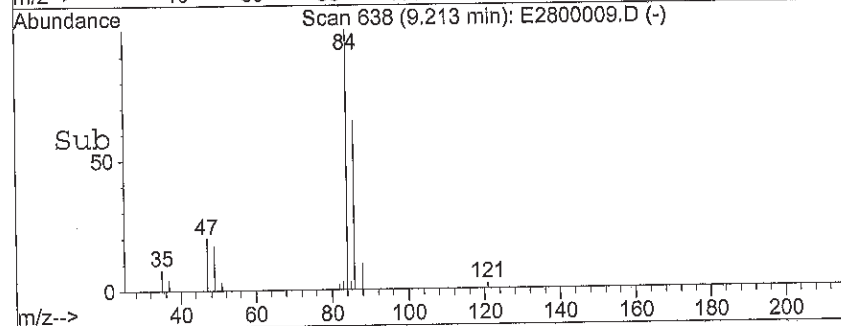
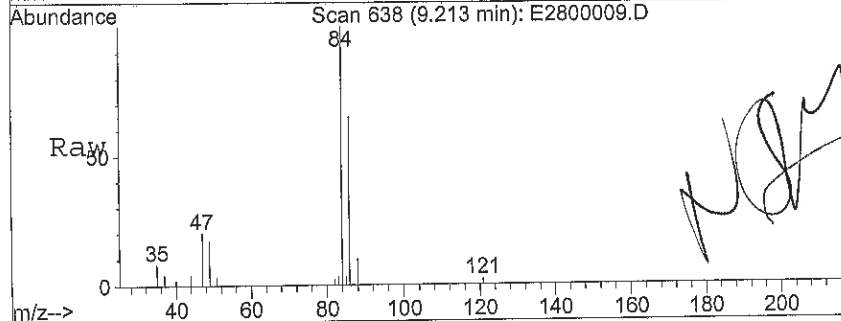
Tgt Ion:	59	Resp:	2399
Ion	Ratio	Lower	Upper
59	100		
57	0.0	6.4	9.6#





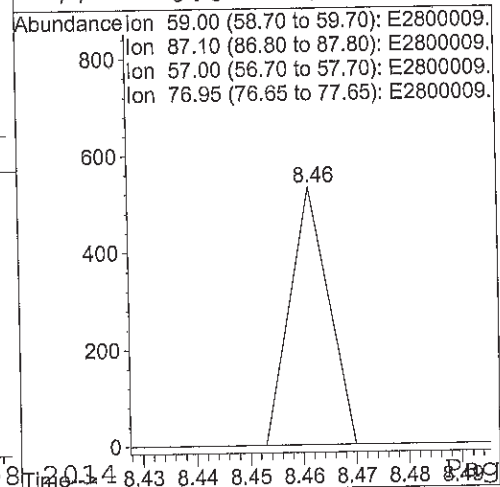
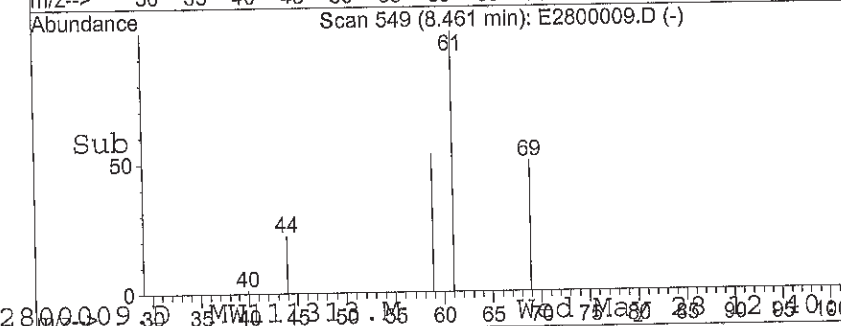
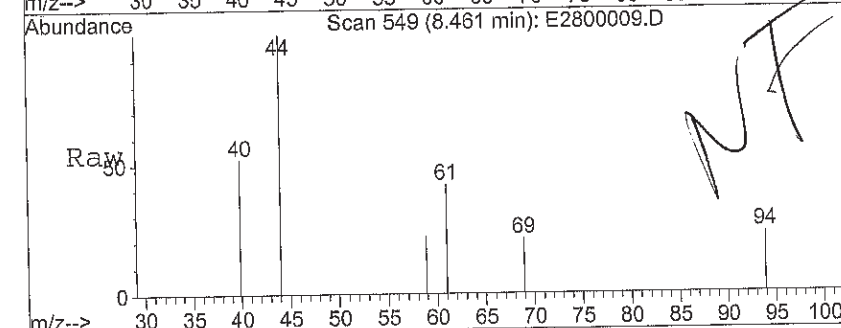
#24
 Chloroform
 Concen: 0.16 ug/L
 RT: 9.21 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: E2800009.D
 Acq: 28 May 2014 12:16 pm

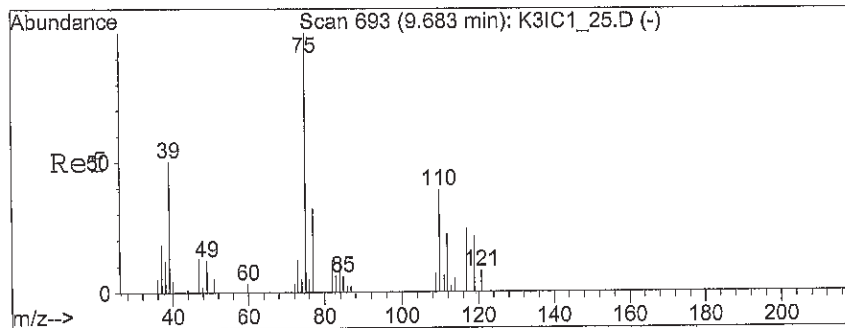
Tgt Ion: 83 Resp: 1362
 Ion Ratio Lower Upper
 83 100
 85 0.0 51.8 77.6#



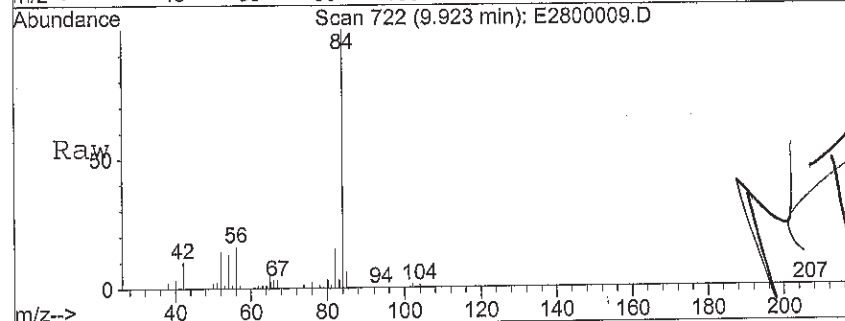
#25
 (ETBE) 2-ethoxy 2-methyl propan
 Concen: 0.02 ug/L
 RT: 8.46 min Scan# 549
 Delta R.T. -0.04 min
 Lab File: E2800009.D
 Acq: 28 May 2014 12:16 pm

Tgt Ion: 59 Resp: 270
 Ion Ratio Lower Upper
 59 100
 87 0.0 27.8 41.8#
 57 0.0 19.8 29.6#
 77 0.0 0.0 0.0

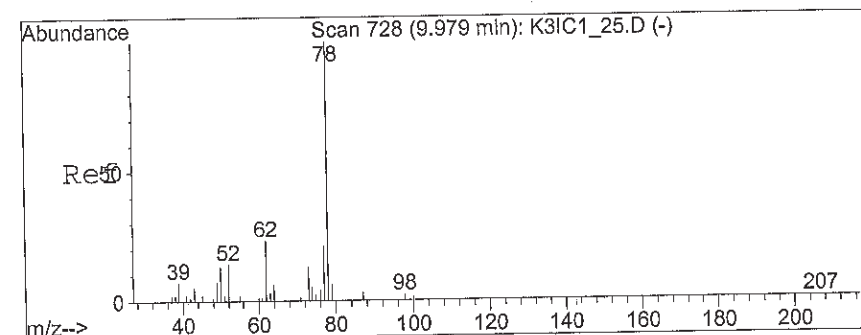
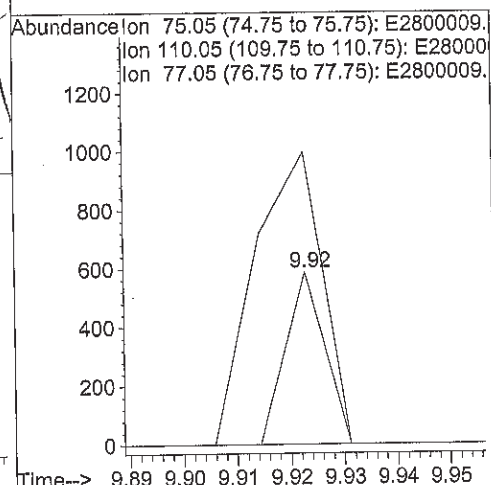
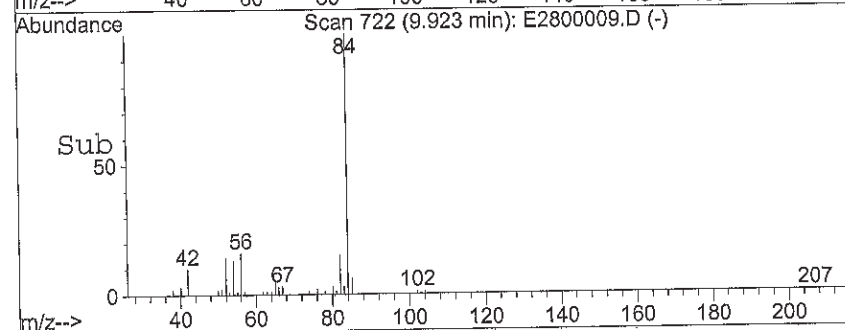




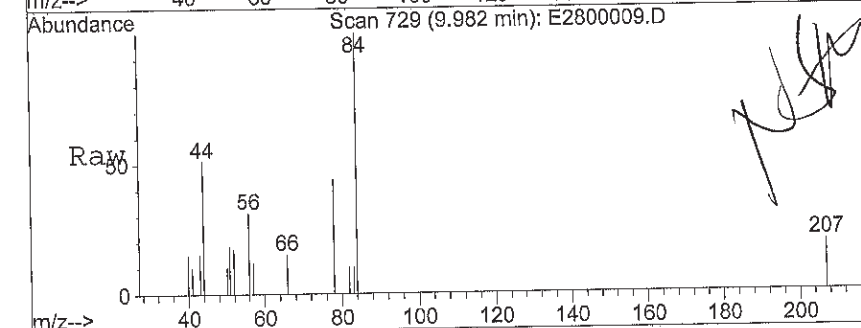
#29
1,1-Dichloropropene
Concen: 0.05 ug/L
RT: 9.92 min Scan# 722
Delta R.T. 0.24 min
Lab File: E2800009.D
Acq: 28 May 2014 12:16 pm



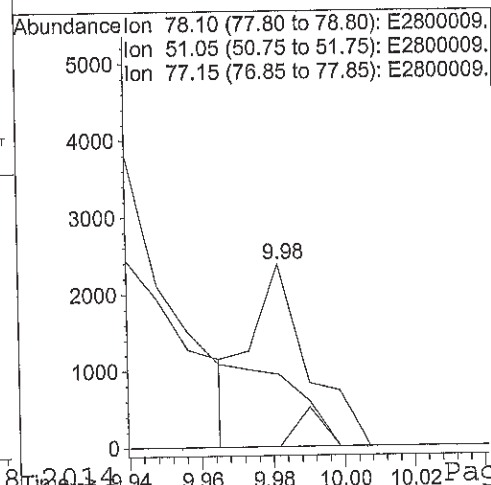
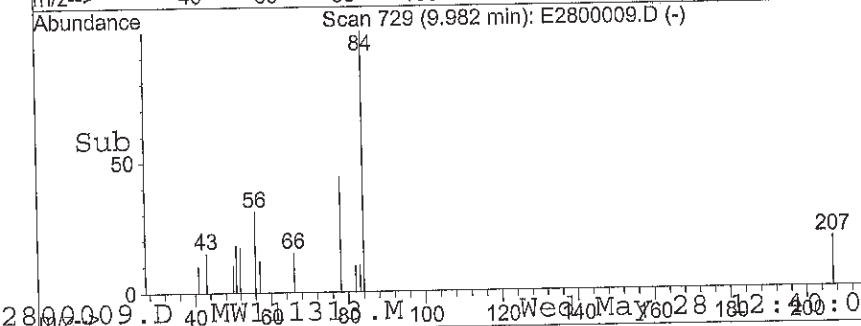
Tgt Ion: 75 Resp: 296
Ion Ratio Lower Upper
75 100
110 0.0 29.0 43.6#
77 293.2 25.0 37.4#

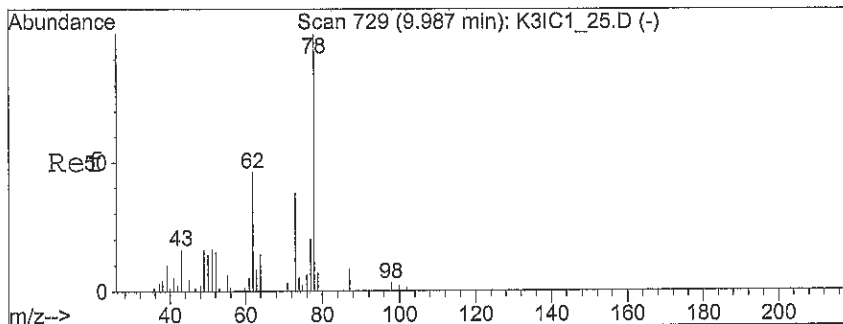


#31
Benzene
Concen: 0.17 ug/L
RT: 9.98 min Scan# 729
Delta R.T. 0.00 min
Lab File: E2800009.D
Acq: 28 May 2014 12:16 pm

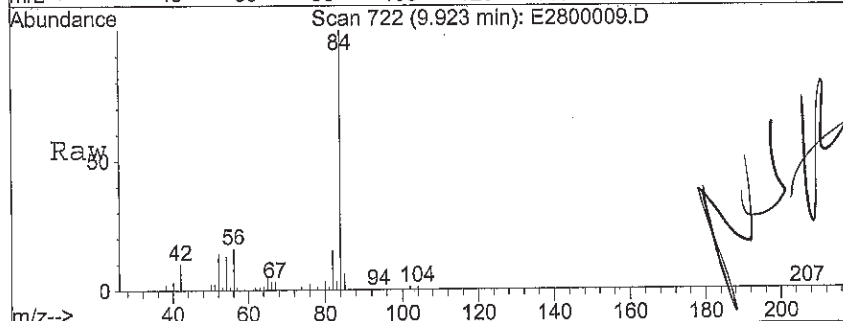


Tgt Ion: 78 Resp: 2629
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 9.9 16.6 24.8#

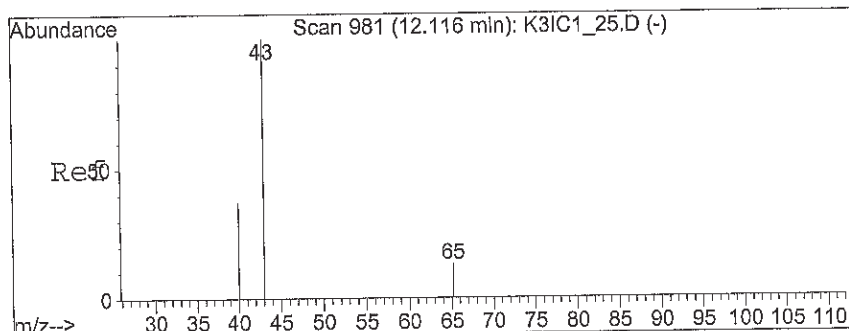
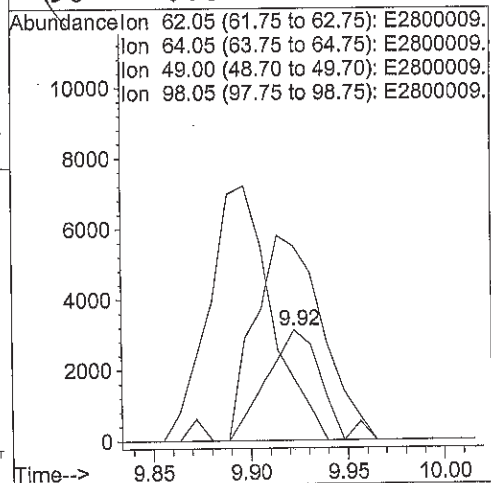
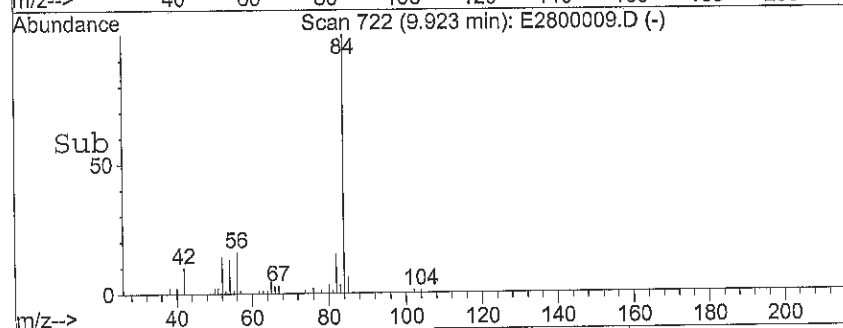




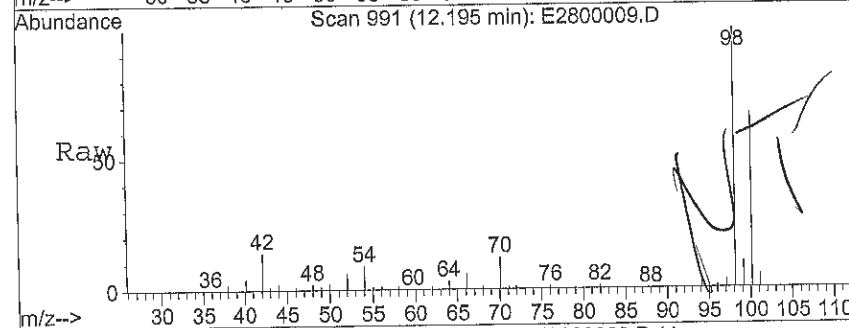
#32
1,2-Dichloroethane
Concen: 1.13 ug/L
RT: 9.92 min Scan# 722
Delta R.T. -0.06 min
Lab File: E2800009.D
Acq: 28 May 2014 12:16 pm



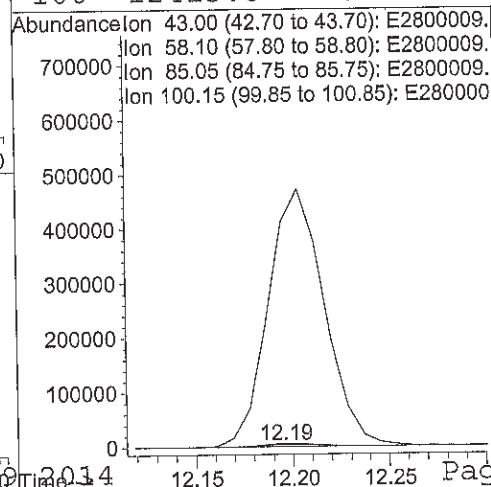
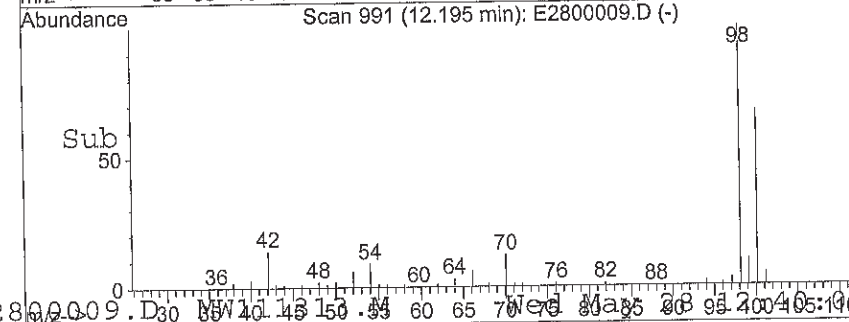
Tgt Ion: 62 Resp: 6134
Ion Ratio Lower Upper
62 100
64 232.2 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#

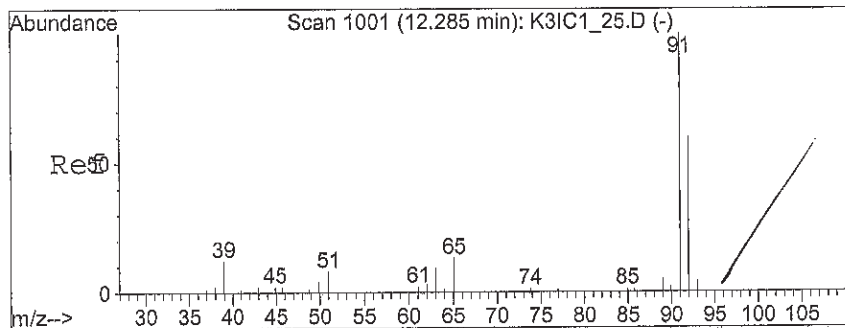


#40
(MIBK) 4-Methyl-2-Pentanone
Concen: 3.03 ug/L
RT: 12.19 min Scan# 991
Delta R.T. 0.08 min
Lab File: E2800009.D
Acq: 28 May 2014 12:16 pm



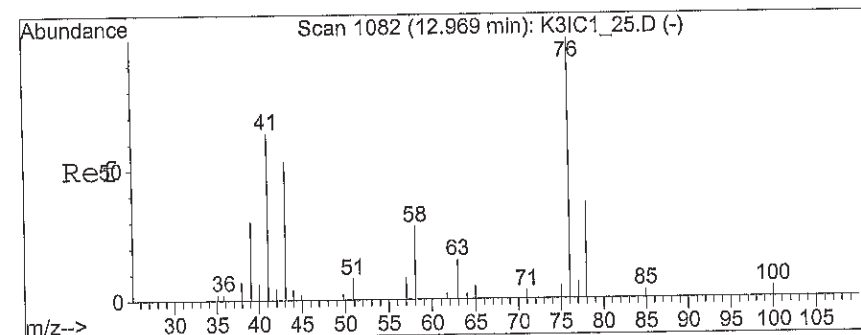
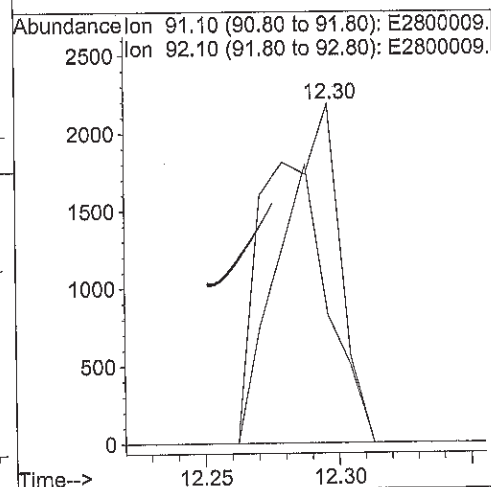
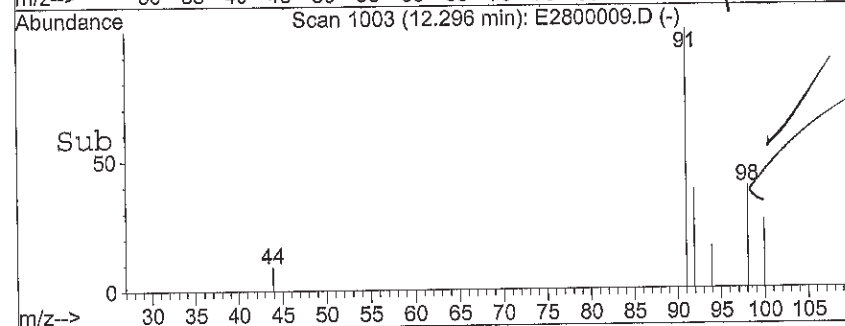
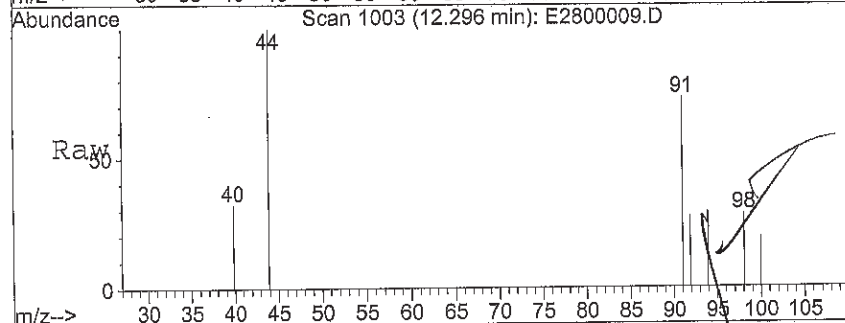
Tgt Ion: 43 Resp: 7671
Ion Ratio Lower Upper
43 100
58 144.3 0.0 0.0#
85 0.0 0.0 0.0
100 12413.8 0.0 0.0#





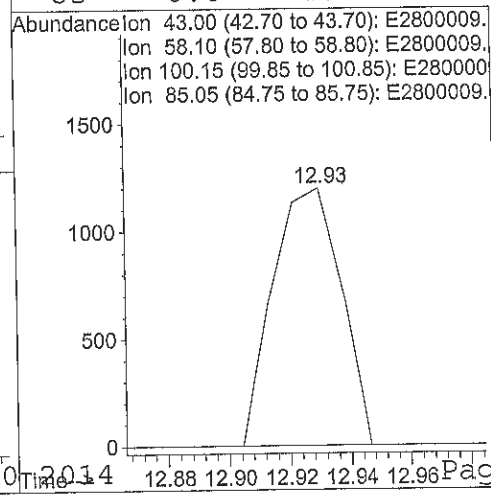
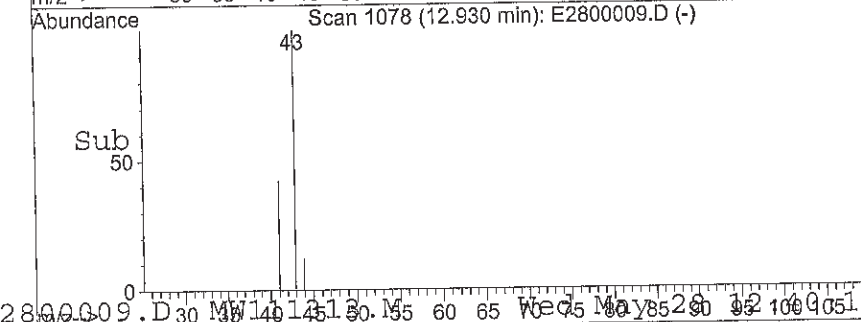
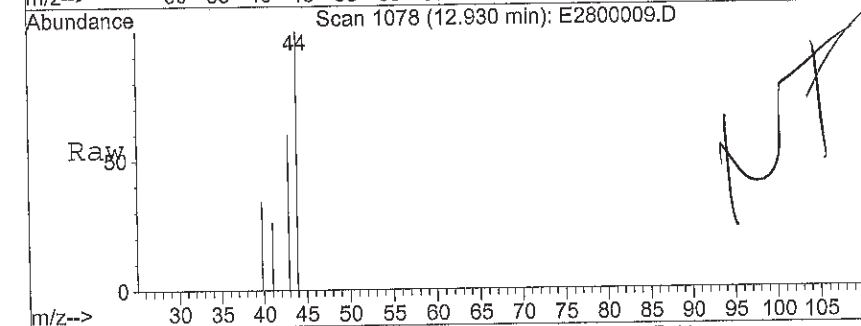
#41
Toluene
Concen: 0.23 ug/L
RT: 12.30 min Scan# 1003
Delta R.T. 0.01 min
Lab File: E2800009.D
Acq: 28 May 2014 12:16 pm

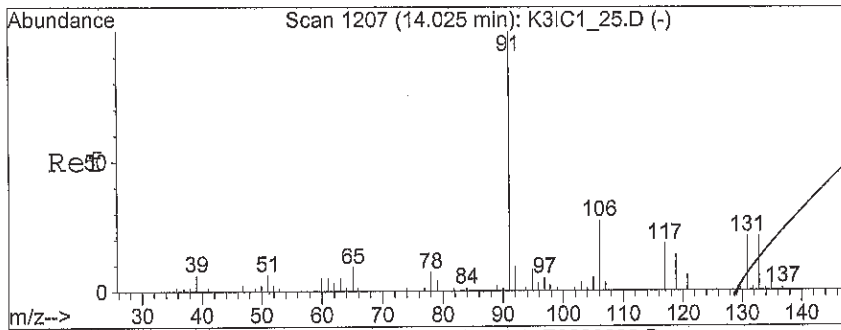
Tgt Ion: 91 Resp: 3995
Ion Ratio Lower Upper
91 100
92 65.2 47.4 71.0



#46
2-Hexanone
Concen: 0.67 ug/L
RT: 12.93 min Scan# 1078
Delta R.T. -0.04 min
Lab File: E2800009.D
Acq: 28 May 2014 12:16 pm

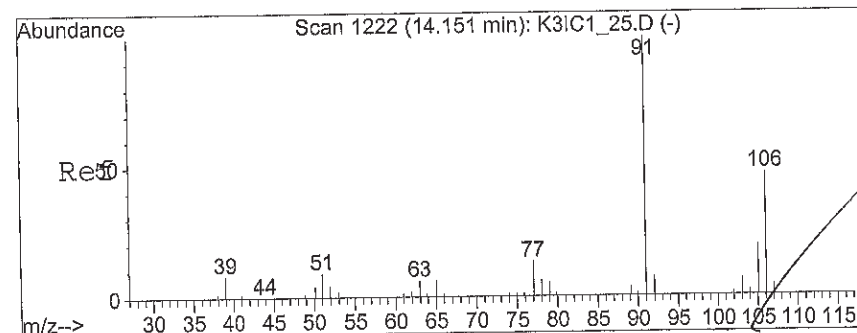
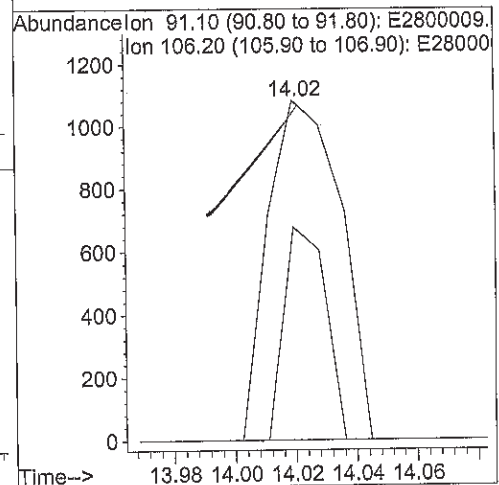
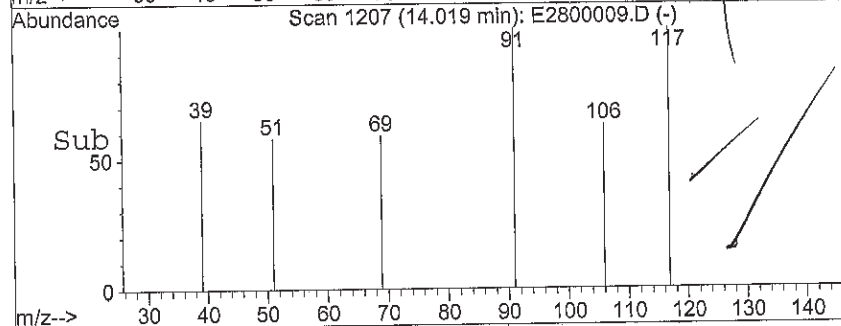
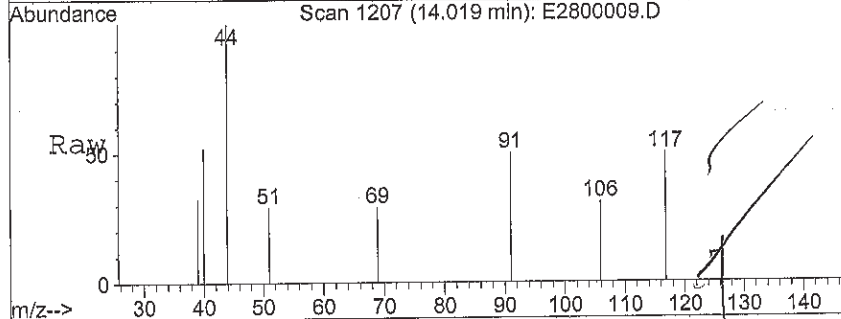
Tgt Ion: 43 Resp: 1862
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#





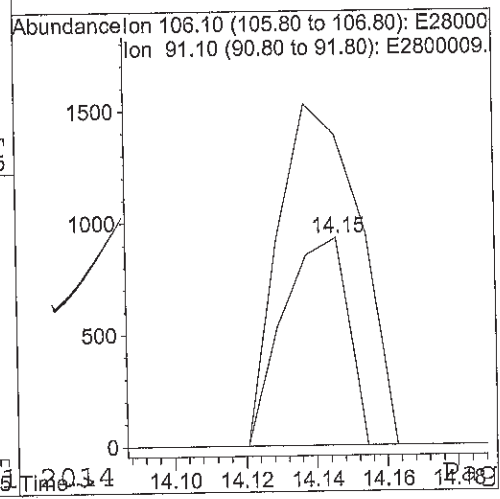
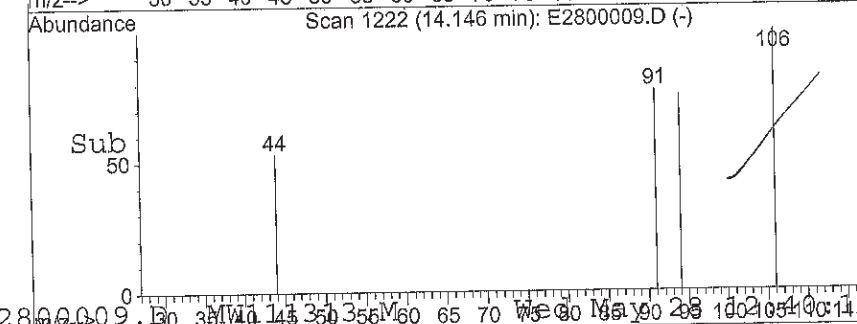
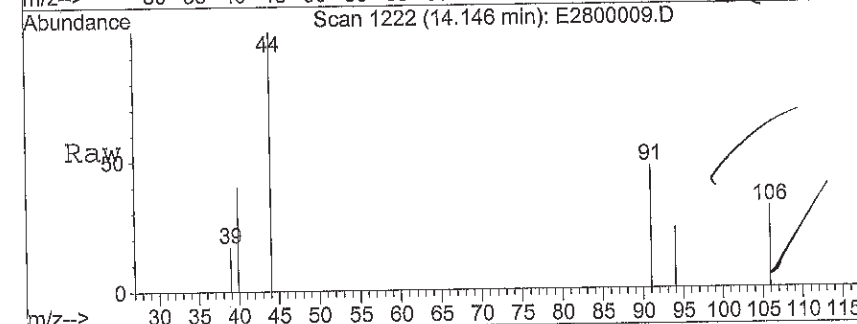
#51
Ethylbenzene
Concen: 0.09 ug/L
RT: 14.02 min Scan# 1207
Delta R.T. -0.01 min
Lab File: E2800009.D
Acq: 28 May 2014 12:16 pm

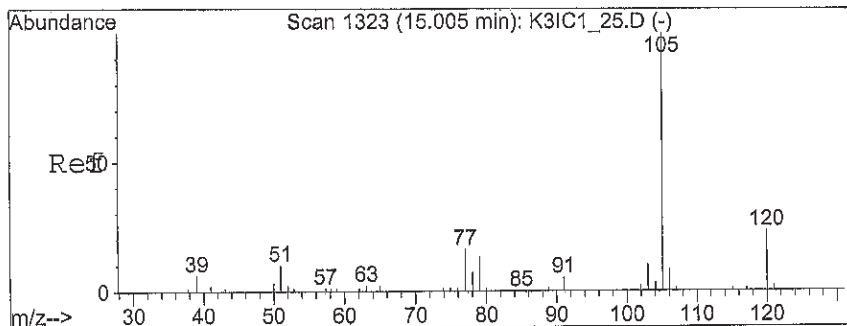
Tgt Ion: 91 Resp: 1789
Ion Ratio Lower Upper
91 100
106 36.3 23.5 35.3#



#52
m,p-Xylenes
Concen: 0.17 ug/L
RT: 14.15 min Scan# 1222
Delta R.T. -0.01 min
Lab File: E2800009.D
Acq: 28 May 2014 12:16 pm

Tgt Ion: 106 Resp: 1170
Ion Ratio Lower Upper
106 100
91 207.4 177.1 265.7





#56

Isopropylbenzene

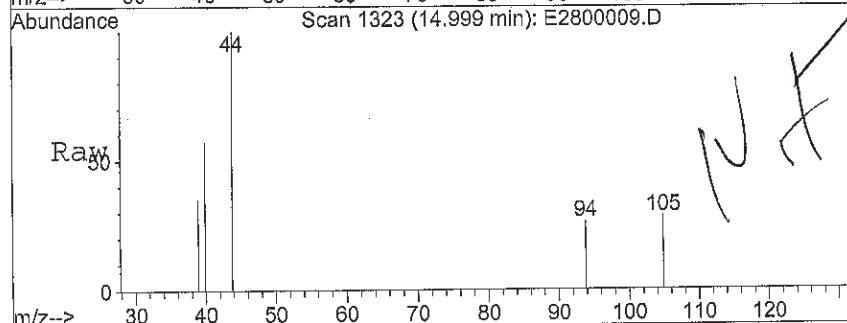
Concen: 0.02 ug/L

RT: 15.00 min Scan# 1323

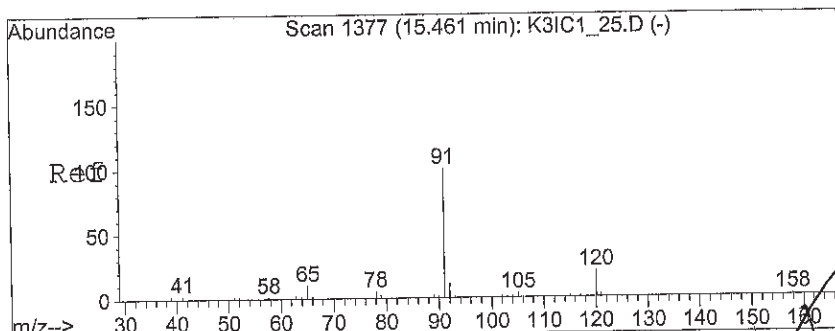
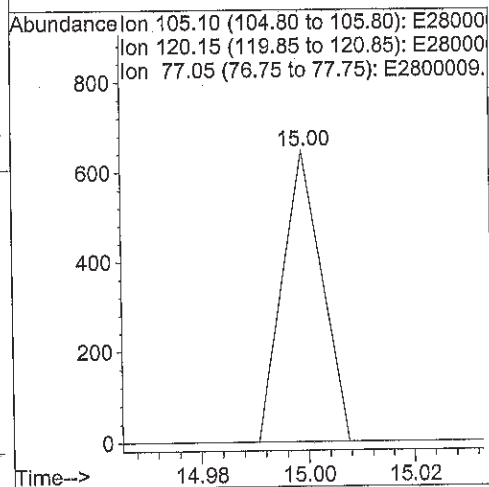
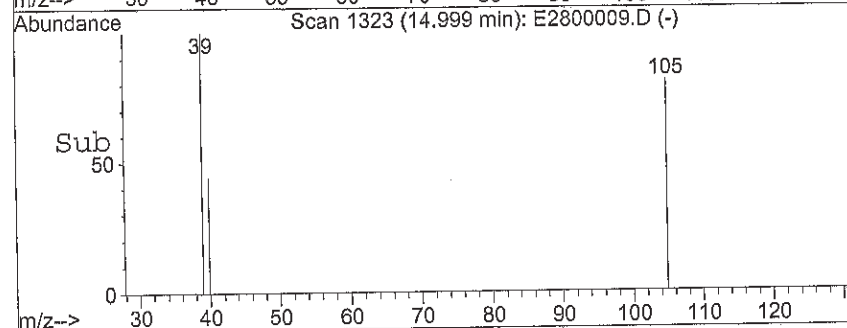
Delta R.T. -0.01 min

Lab File: E2800009.D

Acq: 28 May 2014 12:16 pm



Tgt Ion:	105	Resp:	328
Ion	Ratio	Lower	Upper
105	100		
120	0.0	19.3	28.9#
77	0.0	13.1	19.7#



#62

n-Propylbenzene

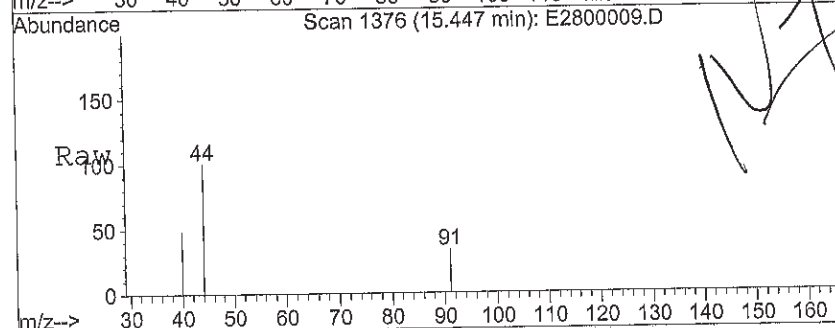
Concen: 0.01 ug/L

RT: 15.45 min Scan# 1376

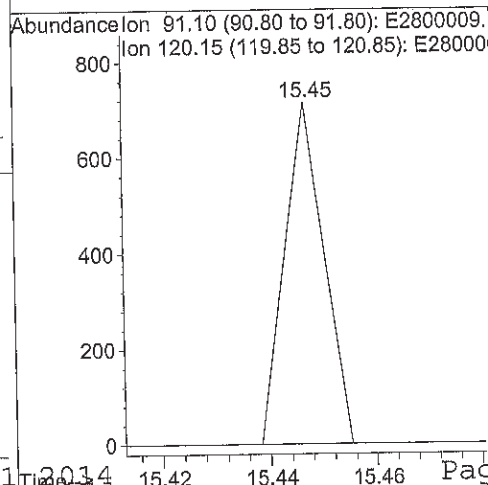
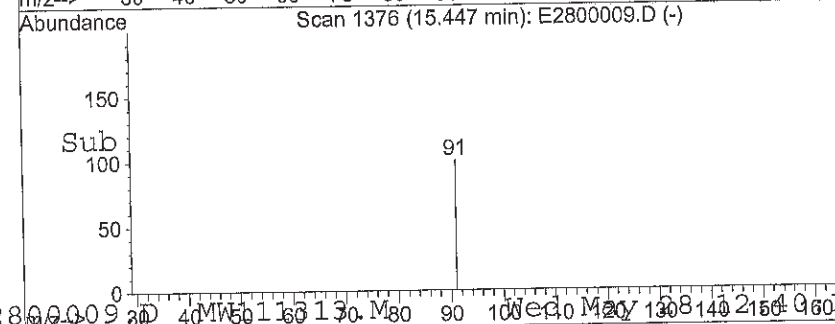
Delta R.T. -0.01 min

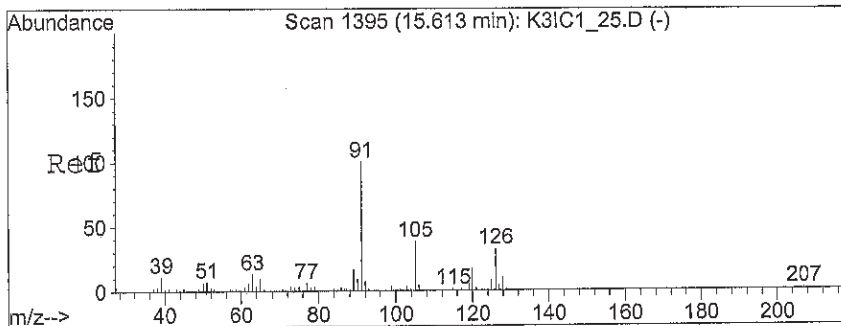
Lab File: E2800009.D

Acq: 28 May 2014 12:16 pm



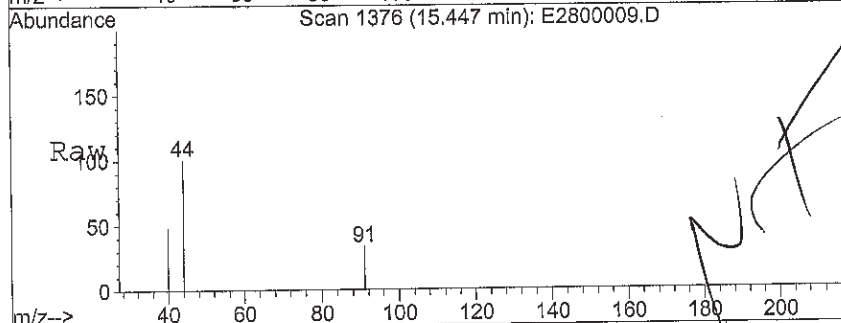
Tgt Ion:	91	Resp:	362
Ion	Ratio	Lower	Upper
91	100		
120	0.0	16.1	24.1#



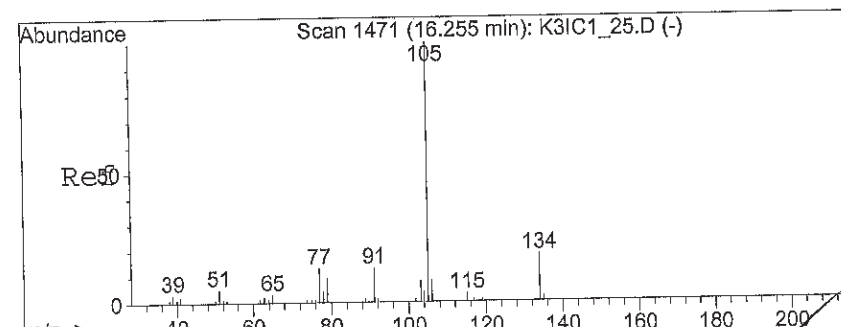
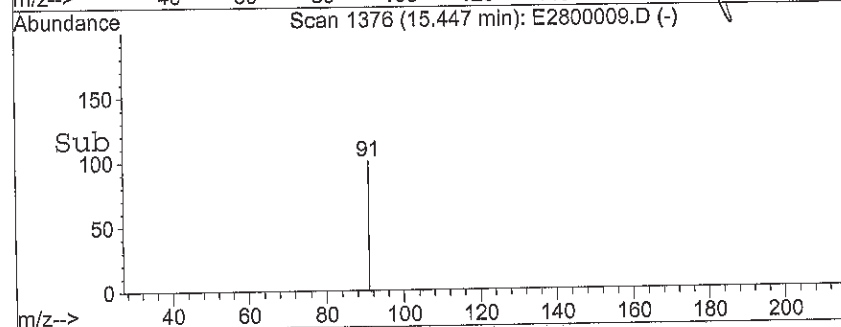
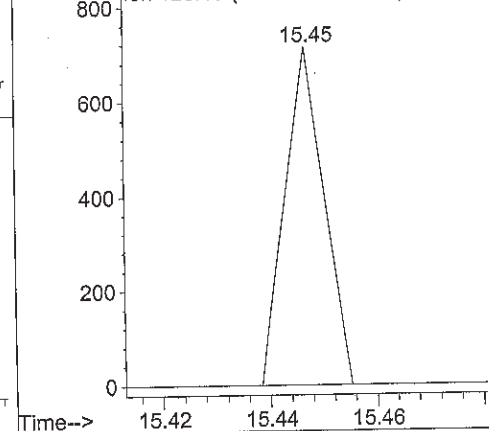


#63
2-Chlorotoluene
Concen: 0.02 ug/L
RT: 15.45 min Scan# 1376
Delta R.T. -0.17 min
Lab File: E2800009.D
Acq: 28 May 2014 12:16 pm

Tgt Ion: 91 Resp: 362
Ion Ratio Lower Upper
91 100
126 0.0 24.0 36.0#

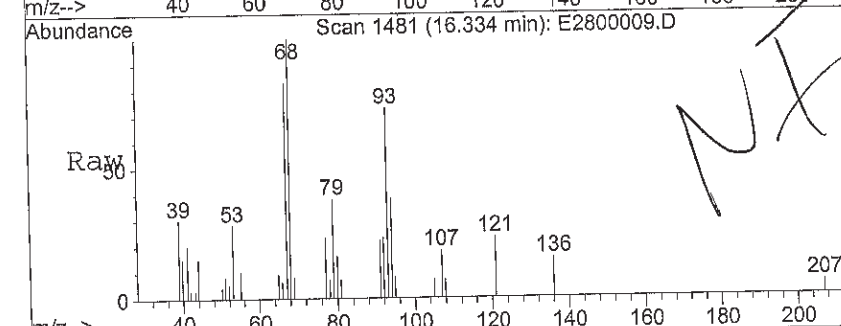


Abundance Ion 91.10 (90.80 to 91.80): E2800009.D
Ion 126.10 (125.80 to 126.80): E2800009.D

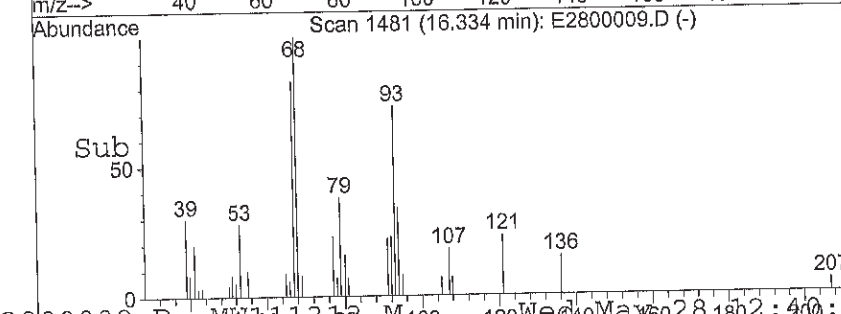
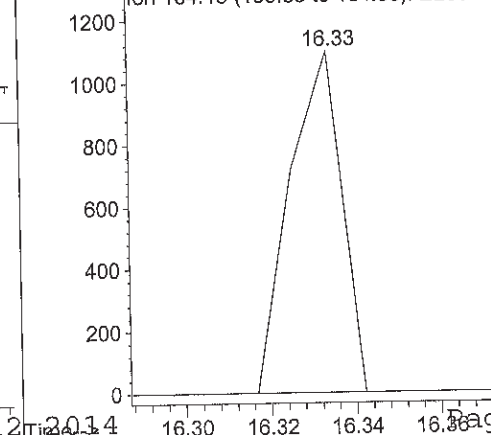


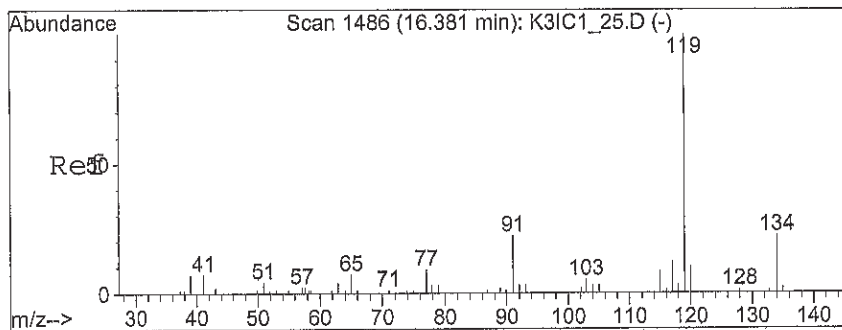
#68
sec-Butylbenzene
Concen: 0.04 ug/L
RT: 16.33 min Scan# 1481
Delta R.T. 0.08 min
Lab File: E2800009.D
Acq: 28 May 2014 12:16 pm

Tgt Ion: 105 Resp: 924
Ion Ratio Lower Upper
105 100
134 0.0 13.0 19.6#

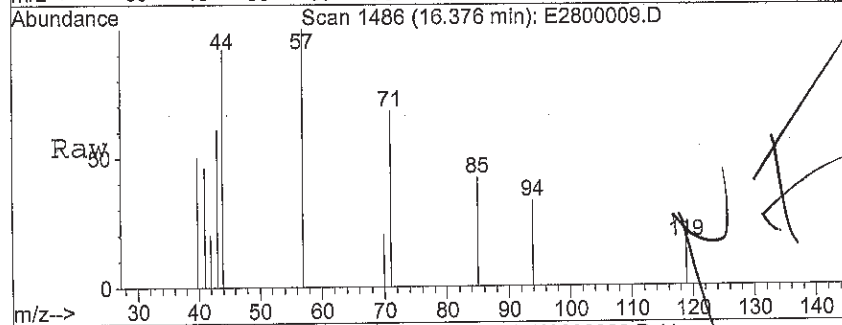


Abundance Ion 105.10 (104.80 to 105.80): E2800009.D
Ion 134.15 (133.85 to 134.85): E2800009.D

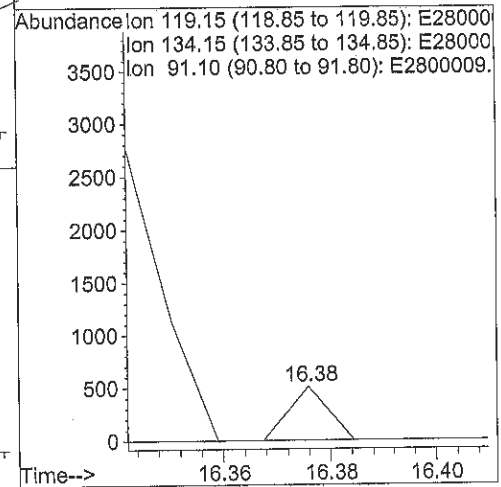
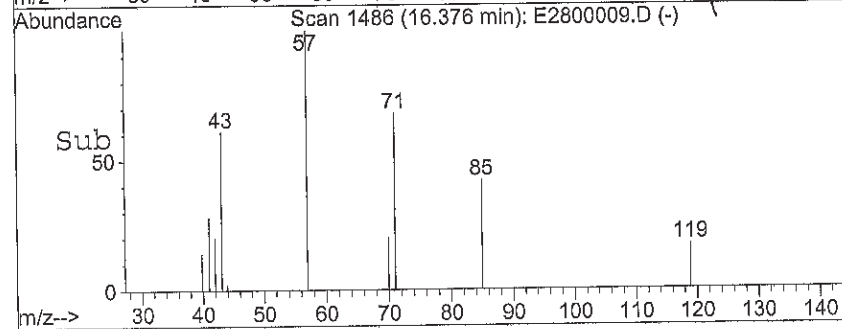




#69
 p-Isopropyltoluene
 Concen: 0.01 ug/L
 RT: 16.38 min Scan# 1486
 Delta R.T. -0.01 min
 Lab File: E2800009.D
 Acq: 28 May 2014 12:16 pm



Tgt Ion	Ratio	Lower	Upper
119	100		
134	0.0	17.4	26.2#
91	0.0	19.6	29.4#



Data File : C:\HPCHEM\1\DATA\052814L3\E2800009.D
 Acq On : 28 May 2014 12:16 pm
 Sample : 3E42801-08
 Misc : 100cc SVL-516-SA5D-SV-14.0-15.0
 MS Integration Params: rteint.p
 Quant Time: May 28 12:36 19114

Vial: 8
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1630177	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.92	117	1266889	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	700521	12.50	ug/L	-0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	470798	11.10	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	88.80%
3) Chloroform-d (SU6)	9.18	84	701694	11.54	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	92.32%
4) Methylene Chloride-d2 (SU5)	7.07	86	414093	11.65	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	93.20%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	448247	15.47	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	123.76%
6) Benzene-d6 (SU7)	9.92	84	1407368	11.00	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	88.00%
8) Toluene-d8 (SU3)	12.20	98	1416688	11.79	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.32%
9) 4-Bromofluorobenzene (SU4)	15.22	95	724371	14.60	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	116.80%

Target Compounds

Qvalue

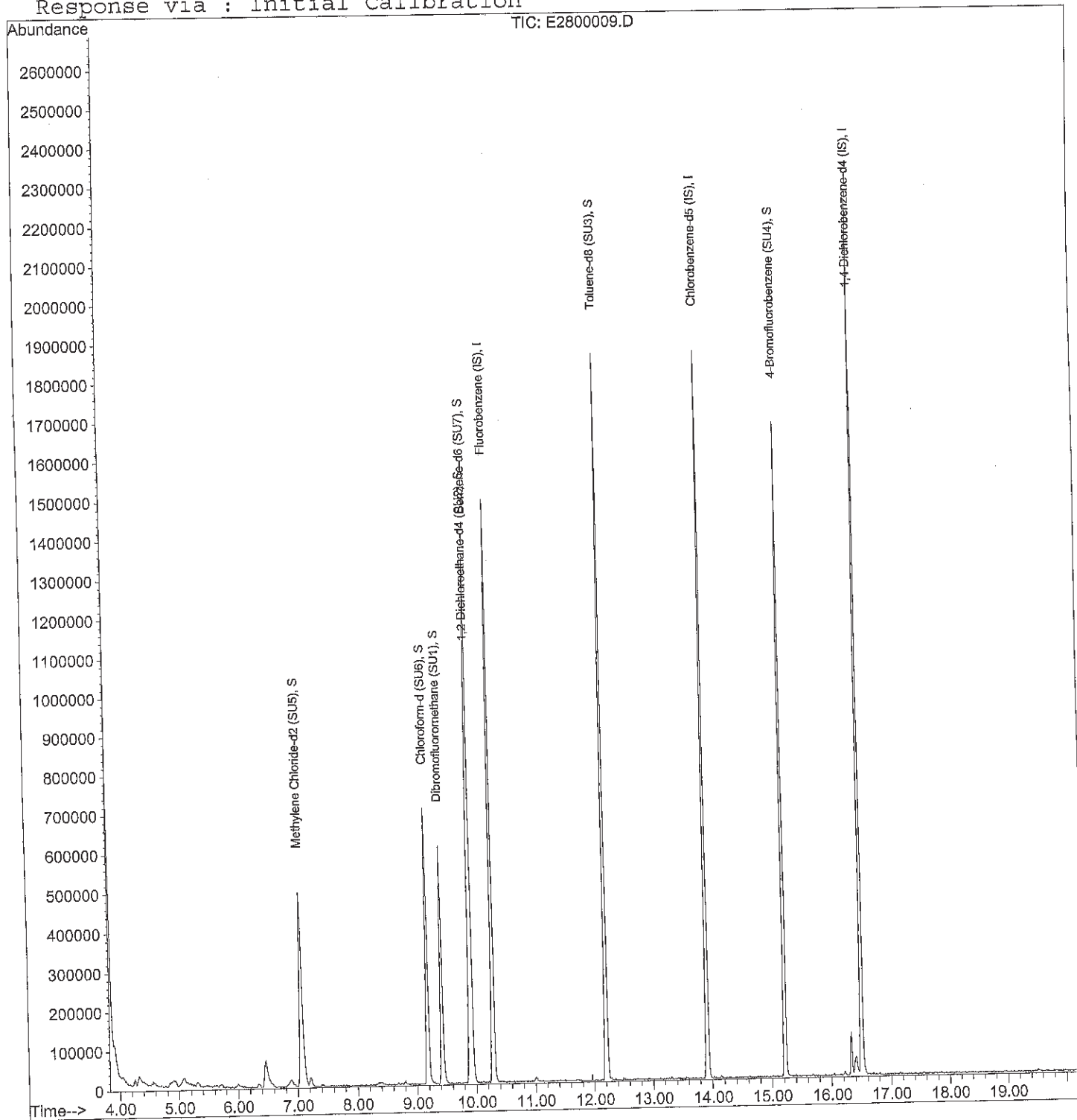
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800009.D
 Acq On : 28 May 2014 12:16 pm
 Sample : 3E42801-08
 Misc : 100cc SVL-516-SA5D-SV-14.0-15.0
 MS Integration Params: rteint.p
 Quant Time: May 28 12:36 19114

Vial: 8
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052814L3\E2800010.D
 Acq On : 28 May 2014 1:14 pm
 Sample : 3E42801-09
 Misc : 100cc SVL-510-SA5D-SV-7.5-8.5
 MS Integration Params: rteint.p
 Quant Time: May 28 13:42 19114

Vial: 1
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.28	96	1758241	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1351582	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	724286	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	477796	10.89	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	87.12%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	457547	10.98	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	87.84%
39) Toluene-d8 (SU3)	12.20	98	1500571	11.90	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.20%
58) 4-Bromofluorobenzene (SU4)	15.22	95	730869	13.22	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	105.76%

Target Compounds

					Ovalue
3) (F12) Dichlorodifluorometh	4.10	85	277	0.06 ug/L #	44
4) Chloromethane	4.41	50	5502	0.65 ug/L #	58
6) Bromomethane	5.05	96	5592	1.11 ug/L #	1
7) Chloroethane	5.23	64	709	1.17 ug/L #	45
9) (F113) 1,1,2-Trichloro-tri	6.35	151	4183	1.21 ug/L #	63
11) Acetone	6.48	58	4735	1.84 ug/L #	62
12) (IPA) Leak Check Compound	6.47	45	189166	895.34 ug/L #	84
13) Carbon disulfide	6.85	76	6419	0.44 ug/L #	89
14) Methylene Chloride	7.09	84	6389	1.32 ug/L #	9
15) (TBA) tert-Butanol	6.91	59	474	1.58 ug/L #	77
24) Chloroform	9.21	83	907	0.10 ug/L #	1
25) (ETBE) 2-ethoxy 2-methyl p	8.37	59	2158	0.17 ug/L #	44
29) 1,1-Dichloropropene	9.92	75	306	0.05 ug/L #	1
31) Benzene	9.98	78	3347	0.20 ug/L #	57
32) 1,2-Dichloroethane	9.92	62	6114	1.04 ug/L #	1
34) 1,2-Dichloropropane	10.97	63	279	0.07 ug/L #	2
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	7402	2.74 ug/L #	100
41) Toluene	12.28	91	8050	0.44 ug/L #	98
46) 2-Hexanone	12.93	43	2499	0.85 ug/L #	37
51) Ethylbenzene	14.03	91	3958	0.19 ug/L #	45
52) m,p-Xylenes	14.14	106	2727	0.37 ug/L #	78
53) o-Xylene	14.62	106	1514	0.21 ug/L #	82

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052814L3\E2800010.D
Acq On : 28 May 2014 1:14 pm
Sample : 3E42801-09
Misc : 100cc SVL-510-SA5D-SV-7.5-8.5
MS Integration Params: rteint.p
Quant Time: May 28 13:42 19114

Vial: 1
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

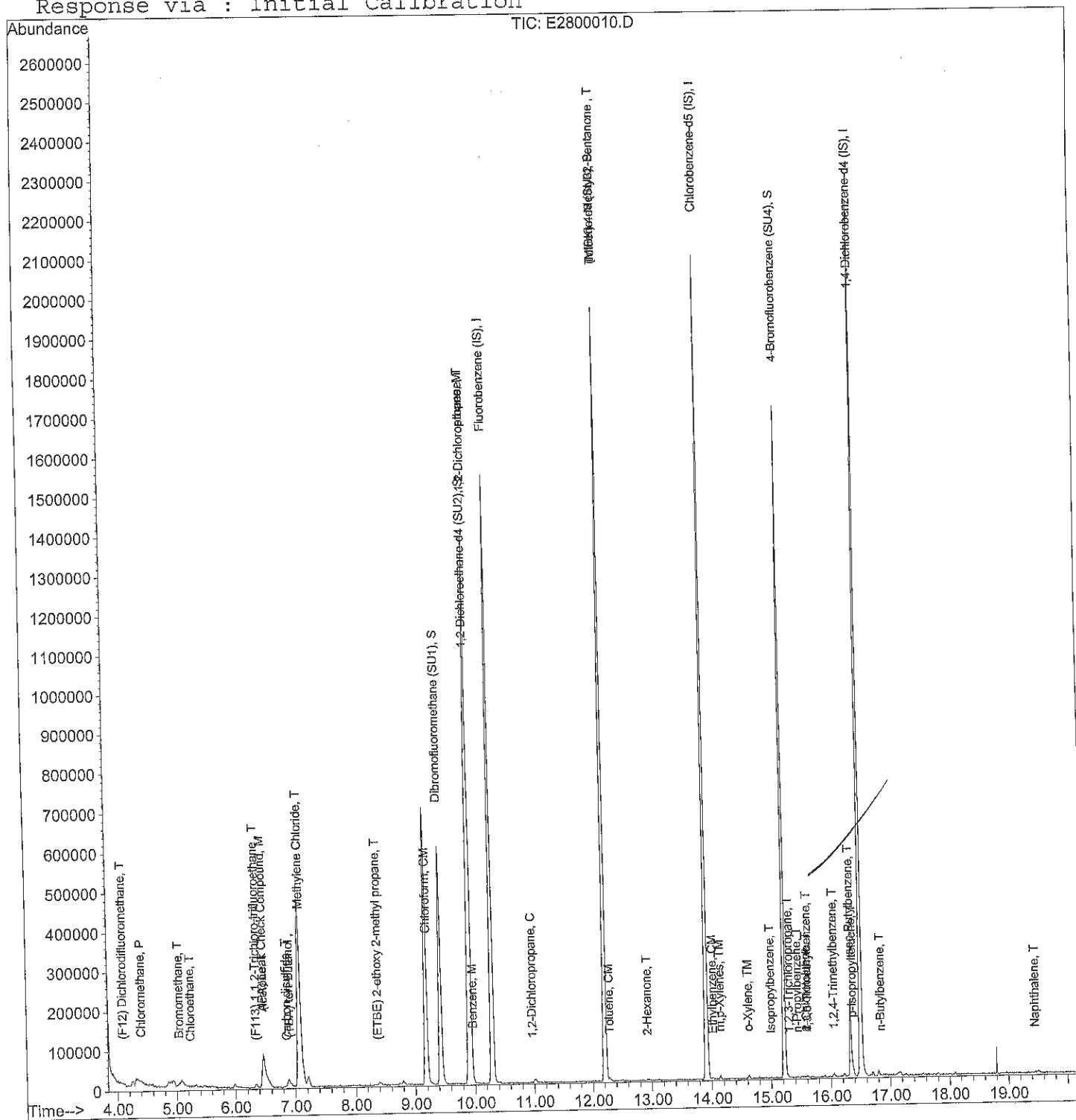
Quant Results File: MW111313.RES

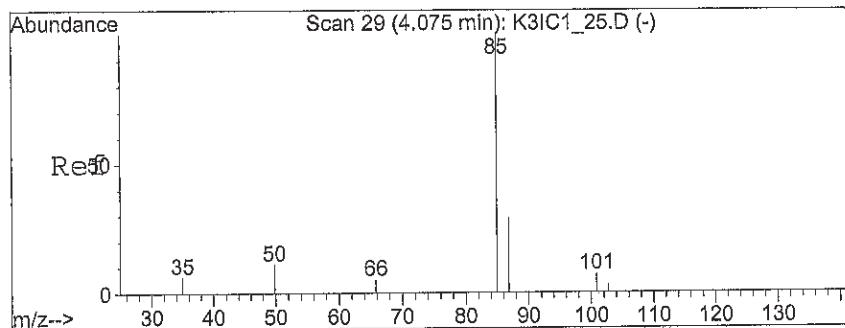
Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
54) Styrene	14.63	104	2835	-0.60	ug/L #	65
56) Isopropylbenzene	15.00	105	648	0.03	ug/L #	55
57) 1,2,3-Trichloropropane	15.30	75	308	0.06	ug/L #	36
62) n-Propylbenzene	15.44	91	1030	0.04	ug/L #	56
63) 2-Chlorotoluene	15.60	91	303	0.02	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.62	105	1083	0.06	ug/L #	31
65) 4-Chlorotoluene	15.60	91	303	0.02	ug/L #	44
67) 1,2,4-Trimethylbenzene	16.05	105	3979	0.21	ug/L #	61
68) sec-Butylbenzene	16.33	105	1984	0.08	ug/L #	62
69) p-Isopropyltoluene	16.37	119	2595	0.13	ug/L #	78
72) n-Butylbenzene	16.85	91	670	0.03	ug/L #	30
77) Naphthalene	19.45	128	1678	0.12	ug/L #	100

Vial: 1
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

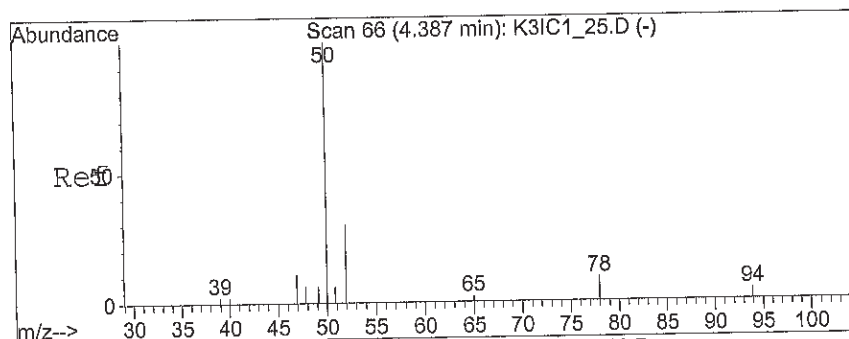
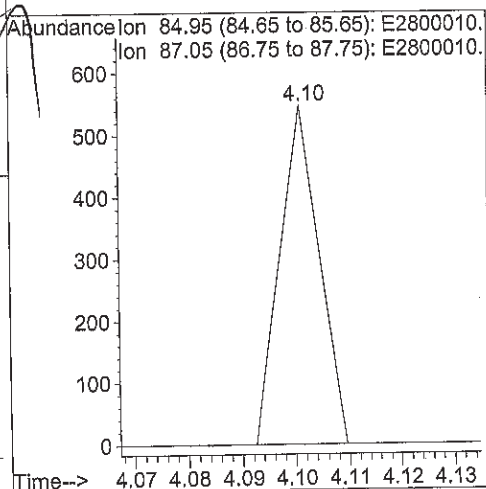
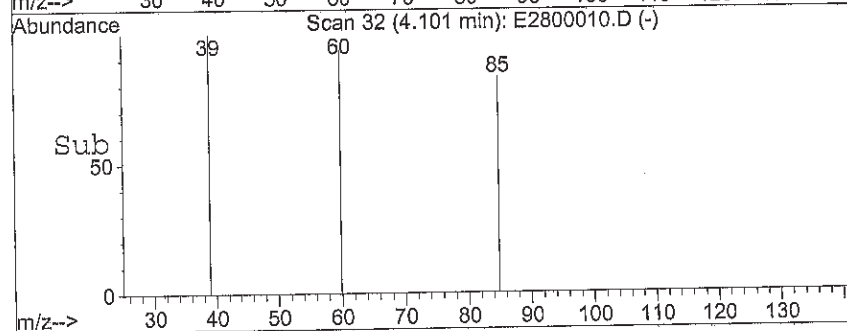
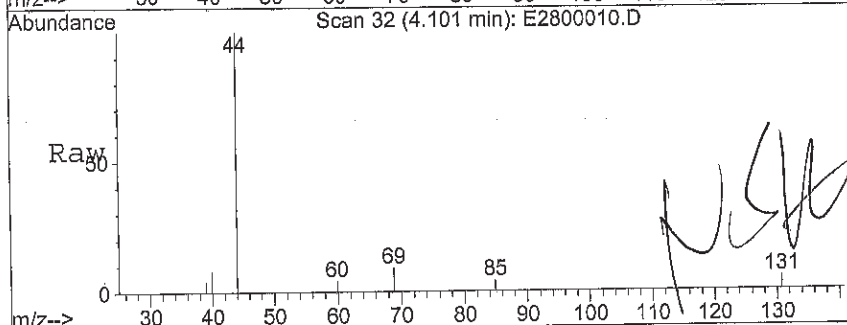
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration





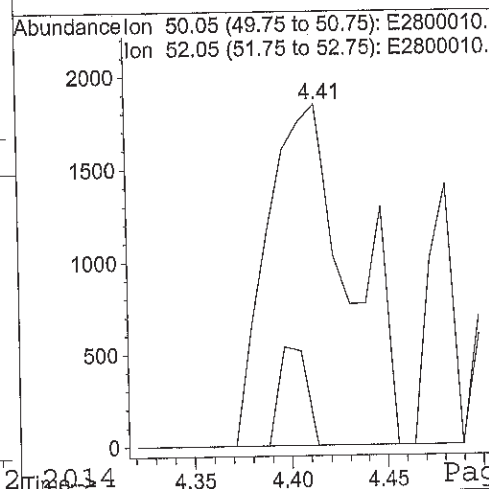
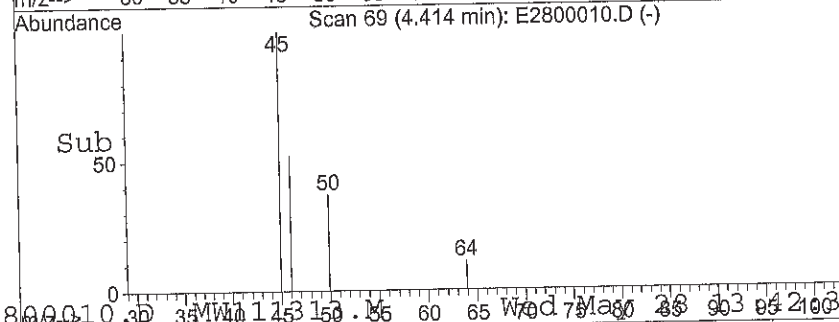
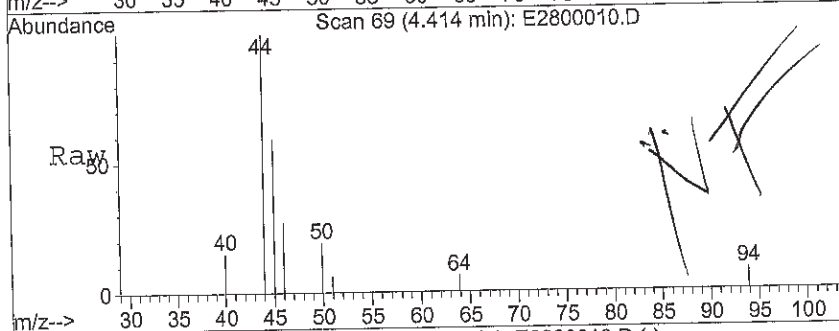
#3
 (F12) Dichlorodifluoromethane
 Concen: 0.06 ug/L
 RT: 4.10 min Scan# 32
 Delta R.T. 0.03 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

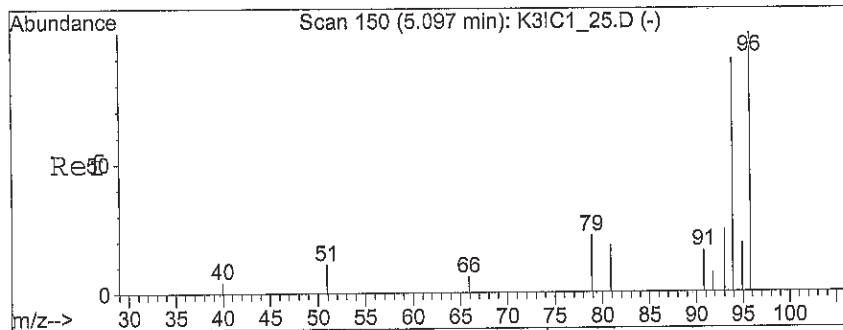
Tgt Ion: 85 Resp: 277
 Ion Ratio Lower Upper
 85 100
 87 0.0 24.6 37.0#



#4
 Chloromethane
 Concen: 0.65 ug/L
 RT: 4.41 min Scan# 69
 Delta R.T. 0.03 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

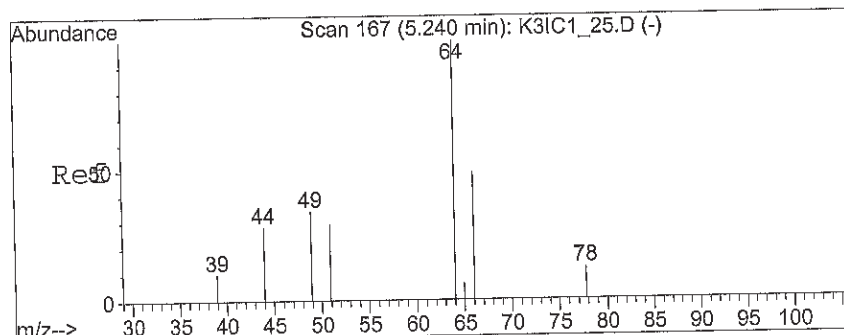
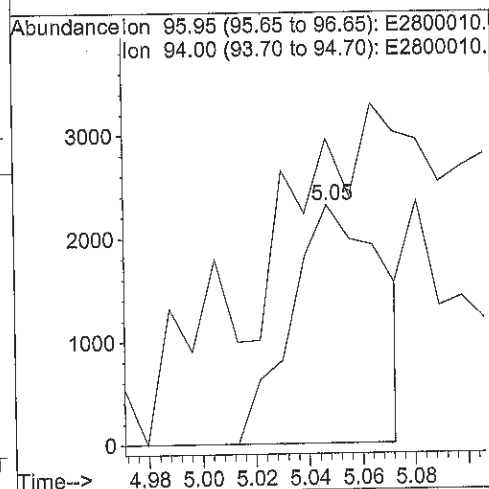
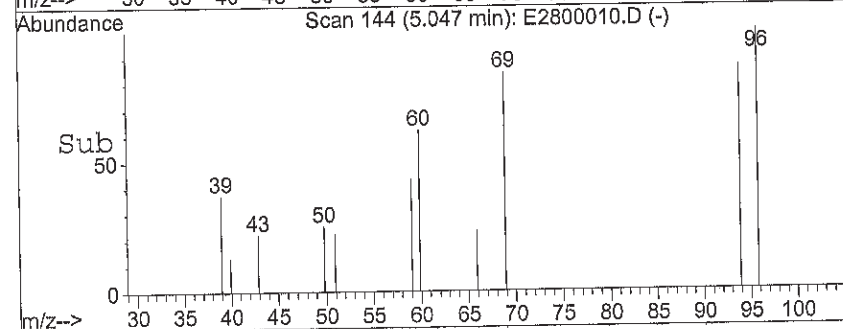
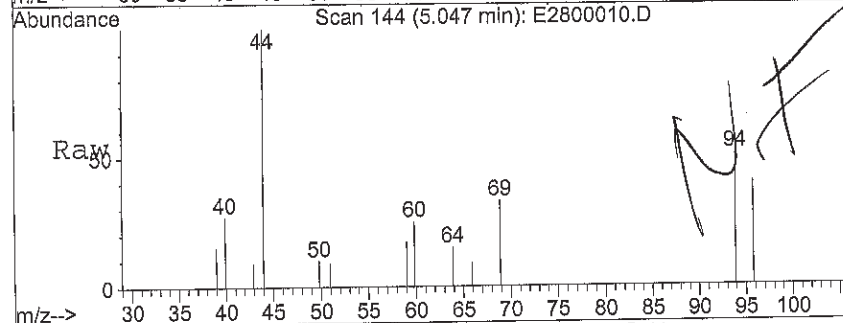
Tgt Ion: 50 Resp: 5502
 Ion Ratio Lower Upper
 50 100
 52 9.7 26.9 40.3#





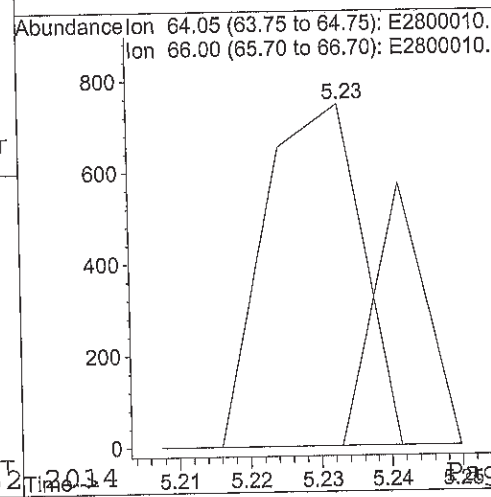
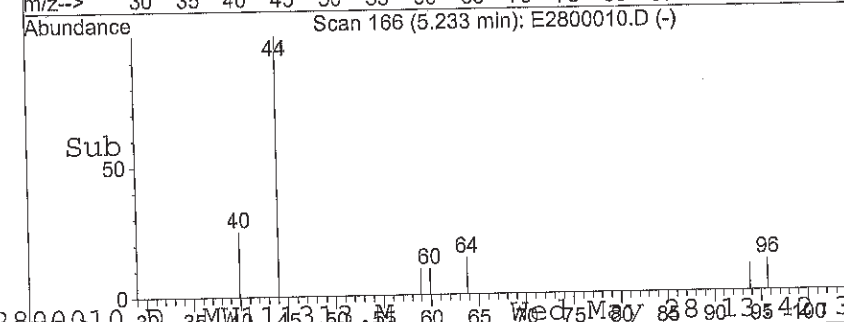
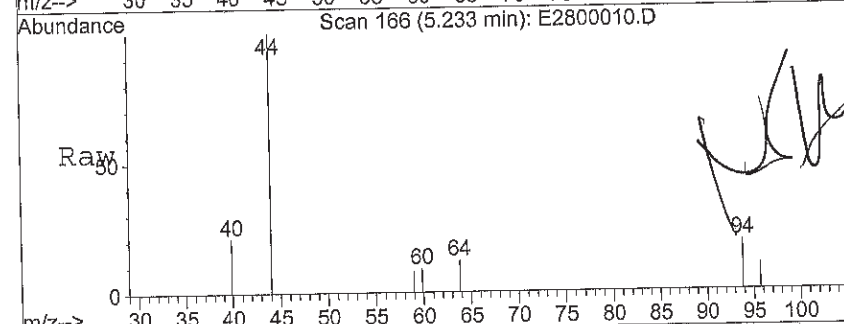
#6
 Bromomethane
 Concen: 1.11 ug/L
 RT: 5.05 min Scan# 144
 Delta R.T. -0.05 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

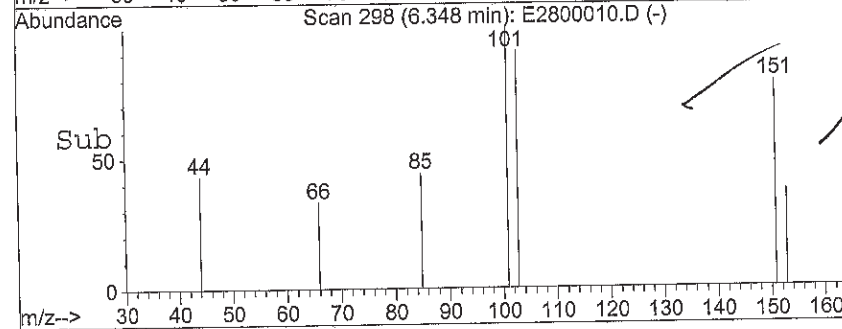
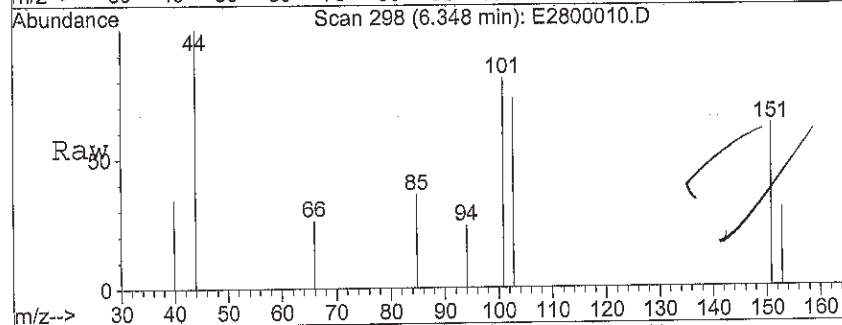
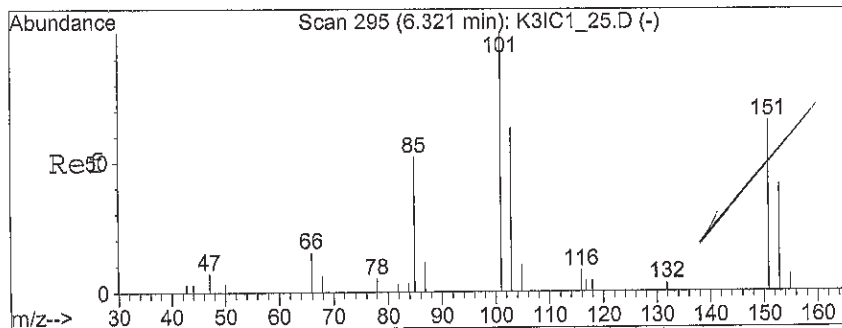
Tgt Ion: 96 Resp: 5592
 Ion Ratio Lower Upper
 96 100
 94 270.7 101.0 151.4#



#7
 Chloroethane
 Concen: 1.17 ug/L
 RT: 5.23 min Scan# 166
 Delta R.T. -0.01 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

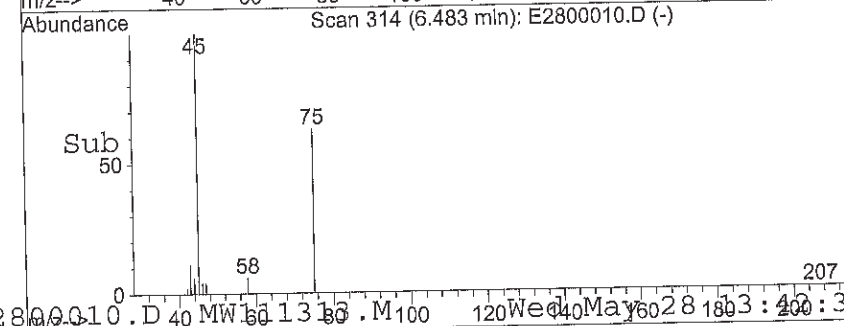
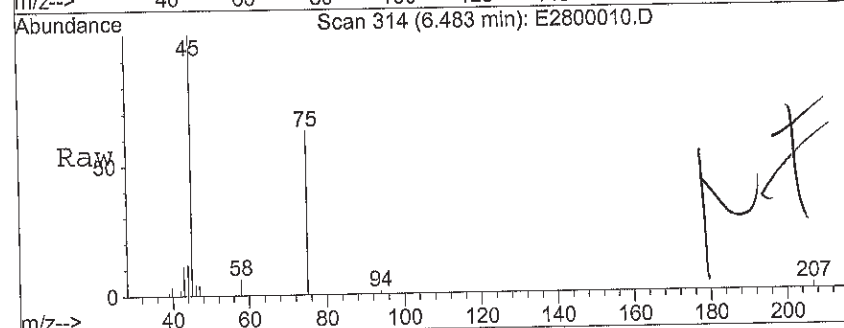
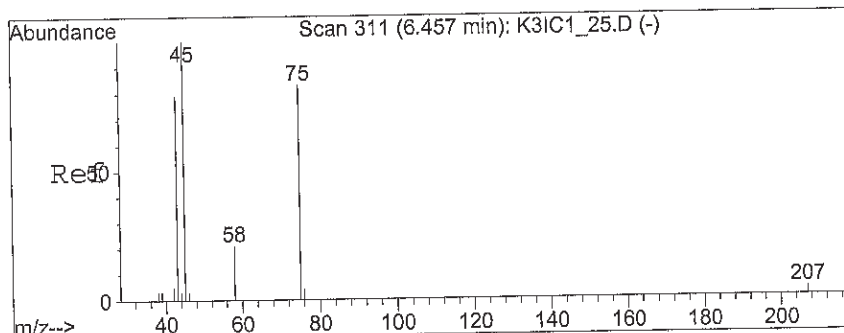
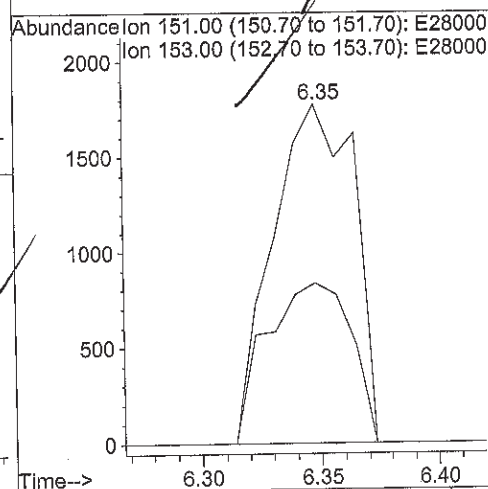
Tgt Ion: 64 Resp: 709
 Ion Ratio Lower Upper
 64 100
 66 79.5 35.4 53.0#





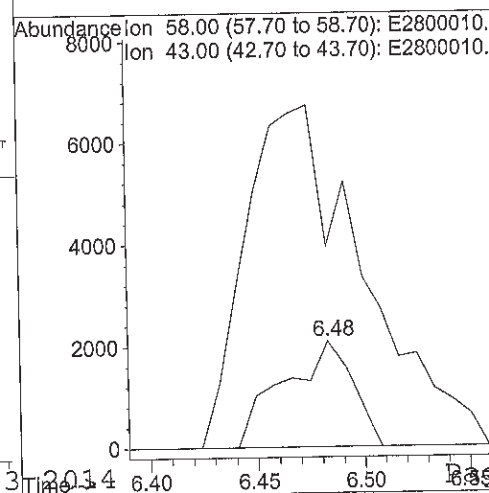
#9
 (F113) 1,1,2-Trichloro-trifluor
 Concen: 1.21 ug/L
 RT: 6.35 min Scan# 298
 Delta R.T. 0.03 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

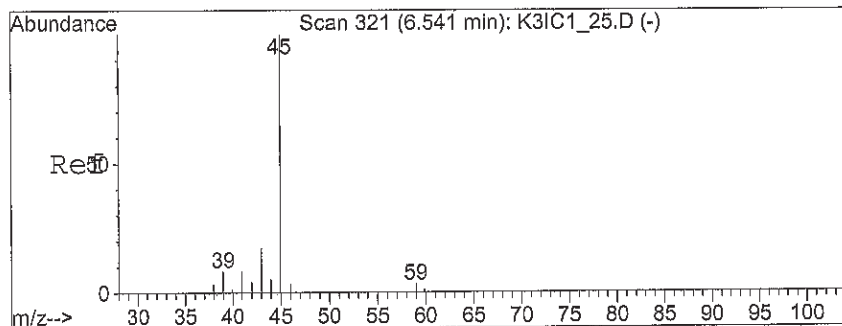
Tgt Ion:151 Resp: 4183
 Ion Ratio Lower Upper
 151 100
 153 48.9 49.6 74.4#



#11
 Acetone
 Concen: 1.84 ug/L
 RT: 6.48 min Scan# 314
 Delta R.T. 0.03 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

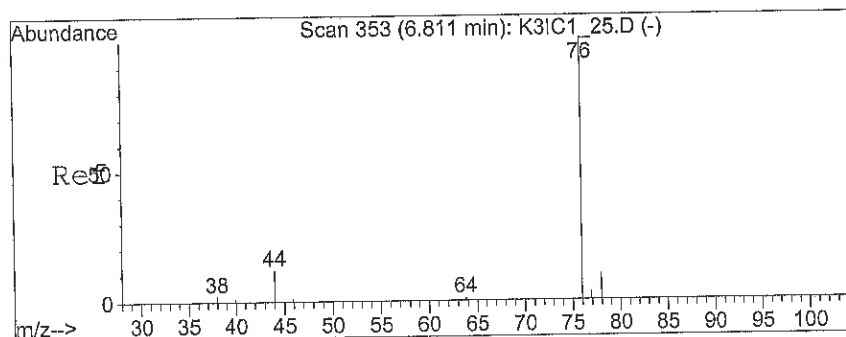
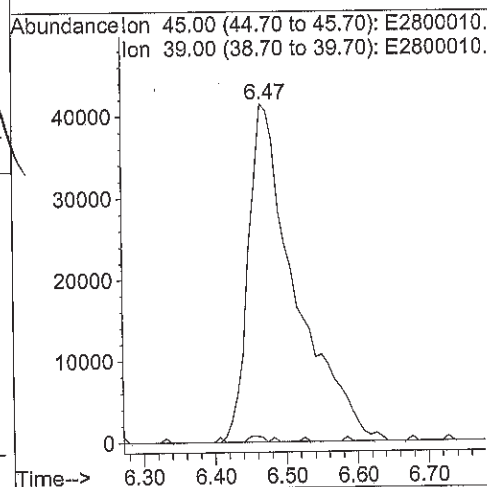
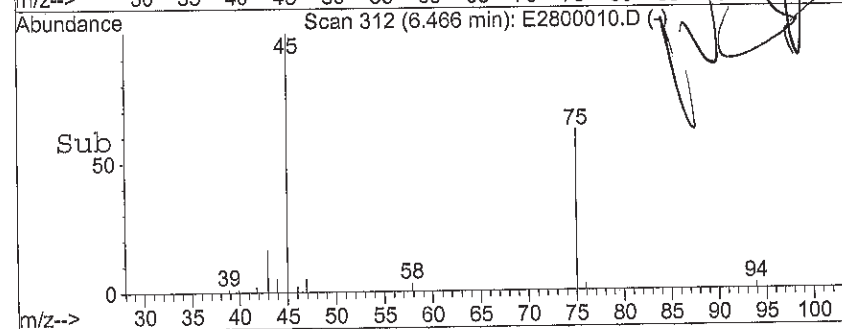
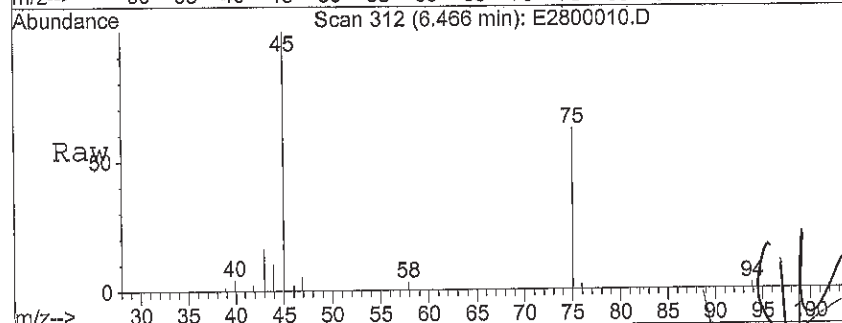
Tgt Ion: 58 Resp: 4735
 Ion Ratio Lower Upper
 58 100
 43 547.9 360.9 541.3#





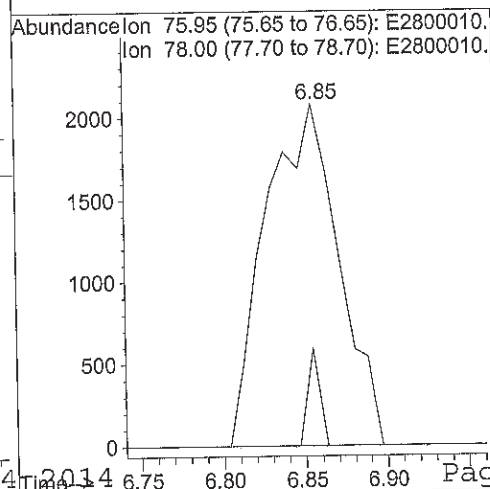
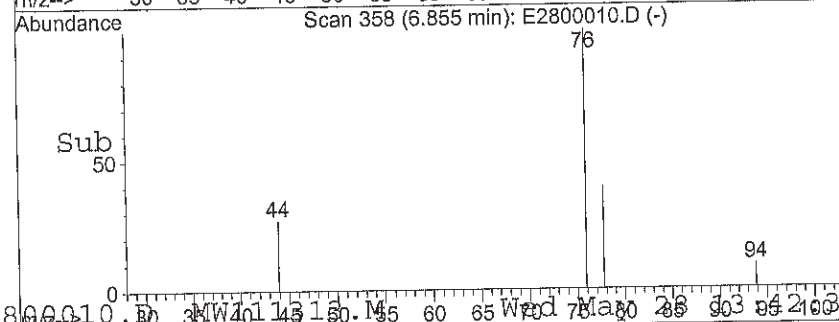
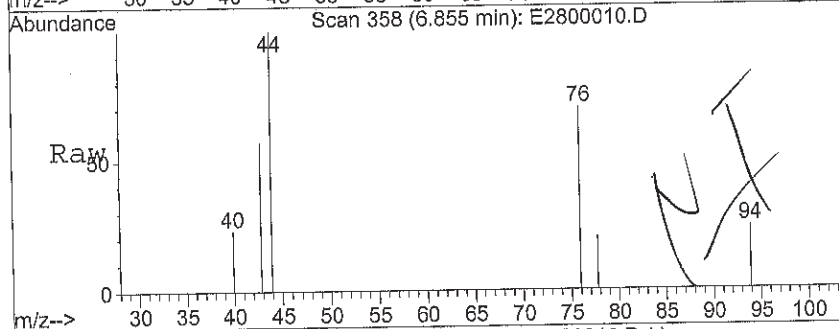
#12
 (IPA) Leak Check Compound
 Concen: 895.34 ug/L
 RT: 6.47 min Scan# 312
 Delta R.T. -0.07 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

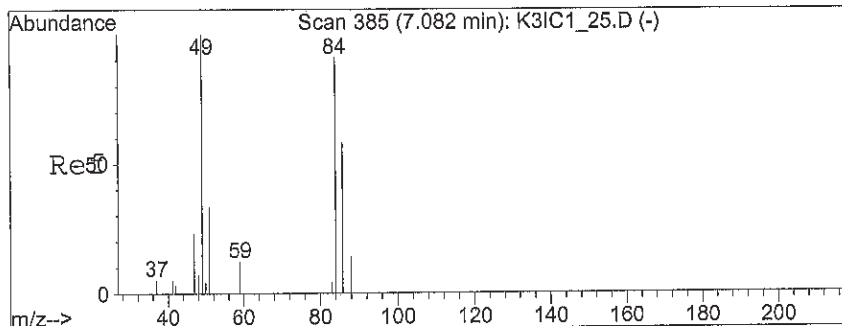
Tgt Ion: 45 Resp: 189166
 Ion Ratio Lower Upper
 45 100
 39 0.7 4.9 7.3#



#13
 Carbon disulfide
 Concen: 0.44 ug/L
 RT: 6.85 min Scan# 358
 Delta R.T. 0.04 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

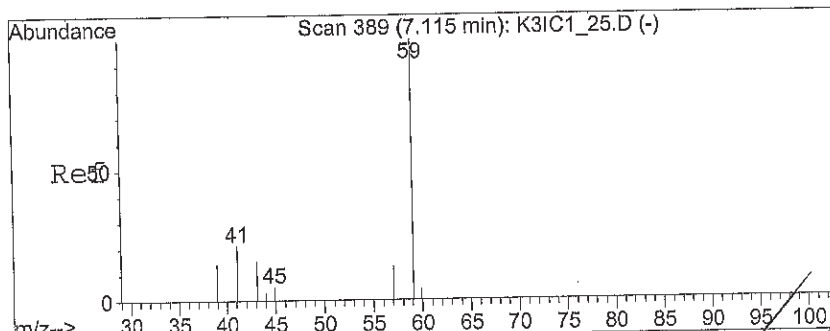
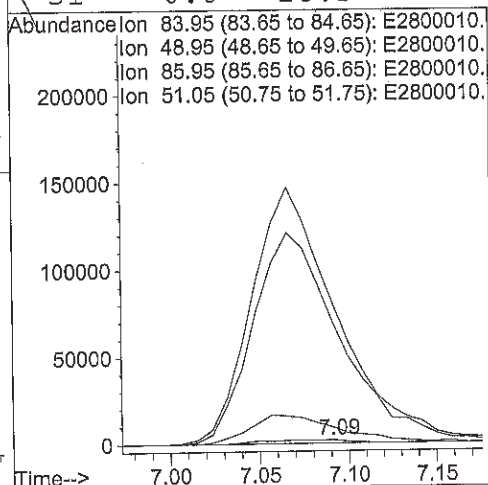
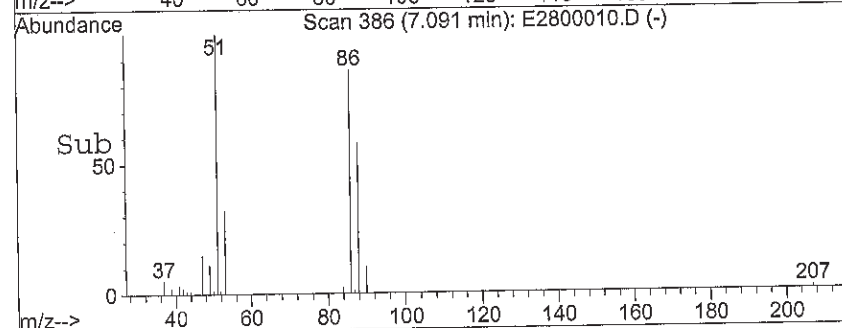
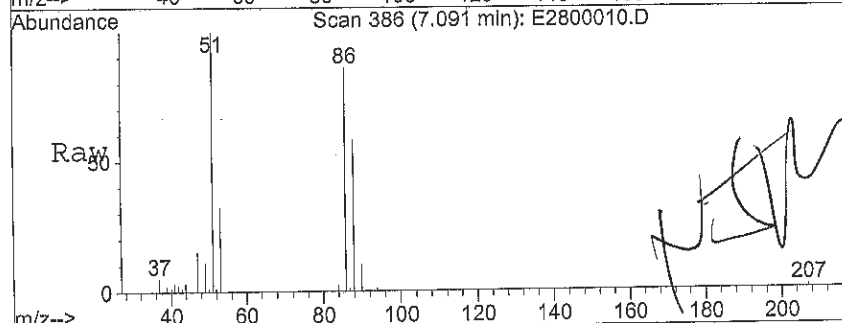
Tgt Ion: 76 Resp: 6419
 Ion Ratio Lower Upper
 76 100
 78 4.7 7.0 10.4#





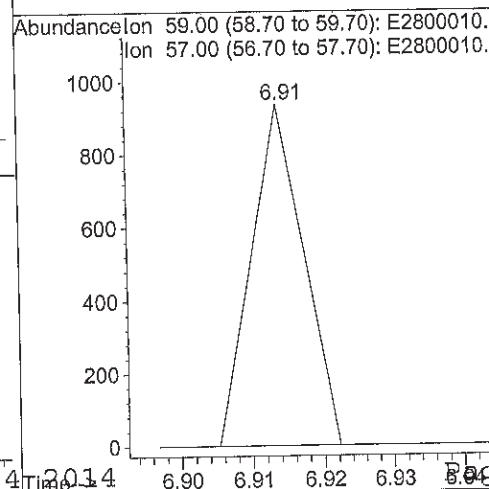
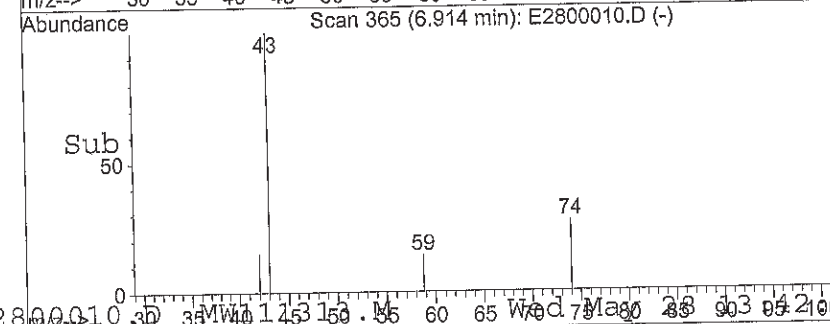
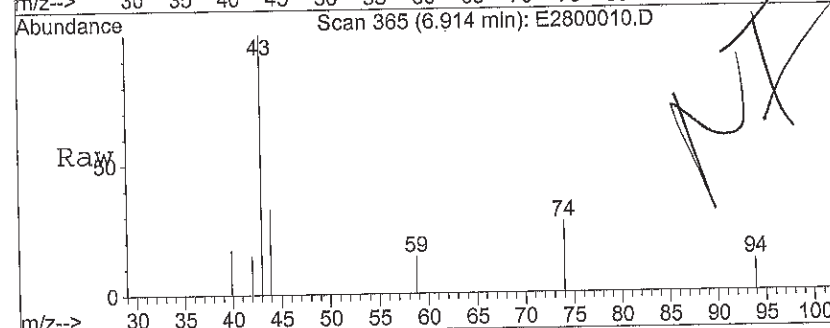
#14
Methylene Chloride
Concen: 1.32 ug/L
RT: 7.09 min Scan# 386
Delta R.T. 0.01 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

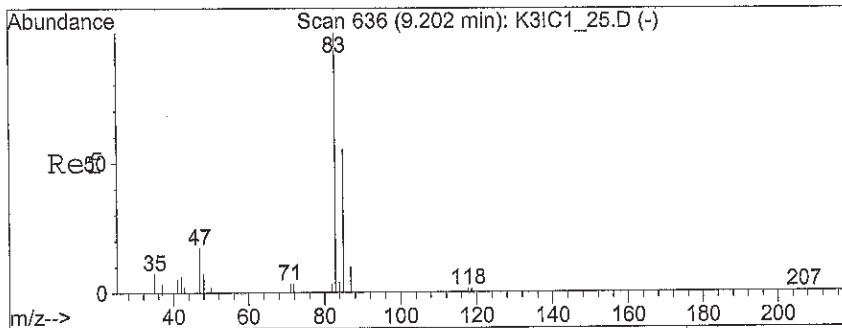
Tgt Ion: 84 Resp: 6389
Ion Ratio Lower Upper
84 100
49 0.0 89.8 134.6#
86 0.0 51.1 76.7#
51 0.0 28.5 42.7#



#15
(TBA) tert-Butanol
Concen: 1.58 ug/L
RT: 6.91 min Scan# 365
Delta R.T. -0.20 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

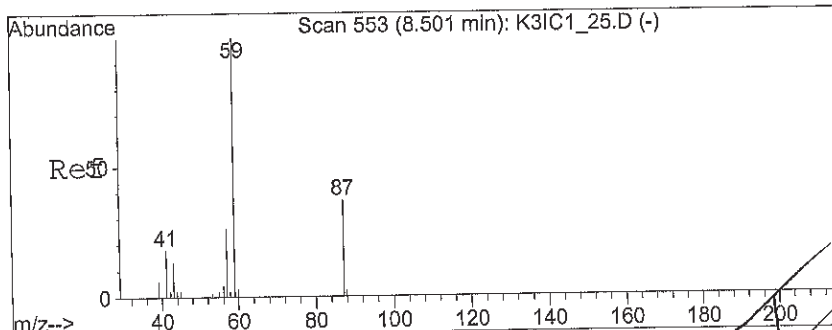
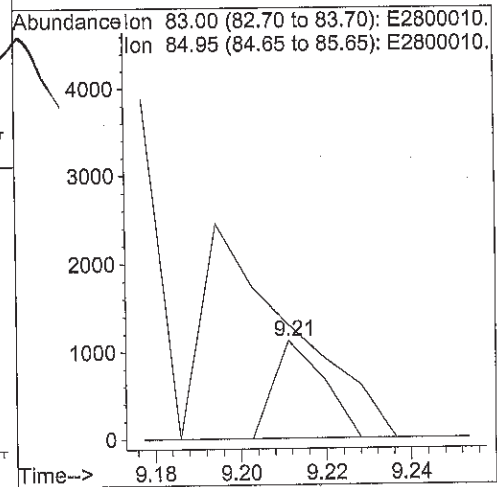
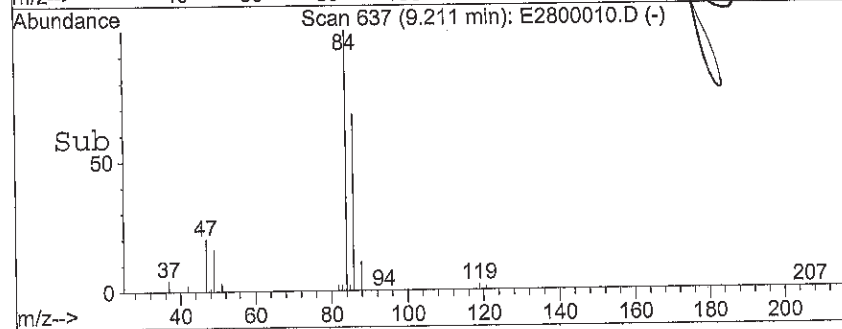
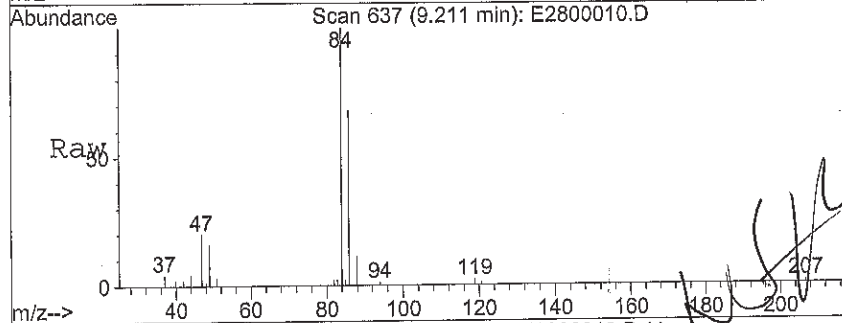
Tgt Ion: 59 Resp: 474
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#





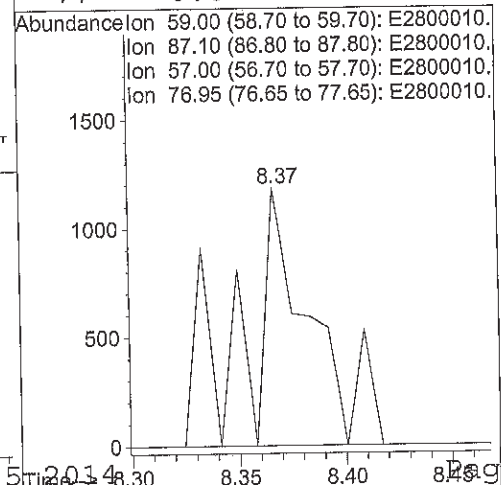
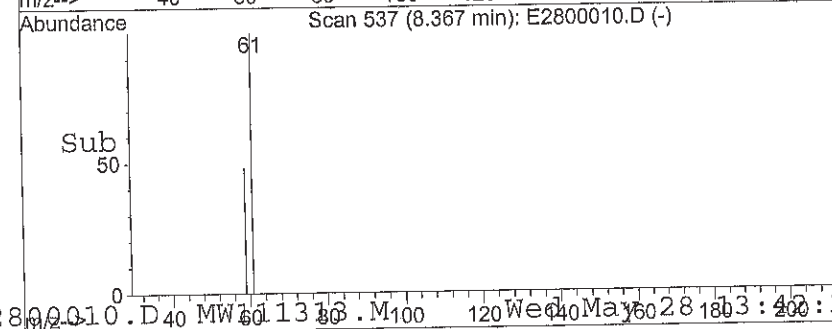
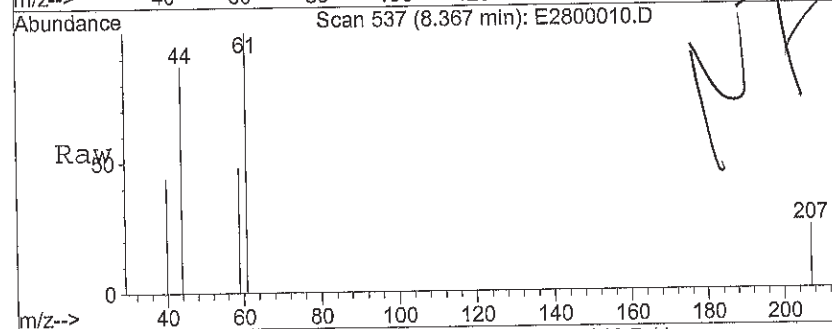
#24
 Chloroform
 Concen: 0.10 ug/L
 RT: 9.21 min Scan# 637
 Delta R.T. 0.01 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

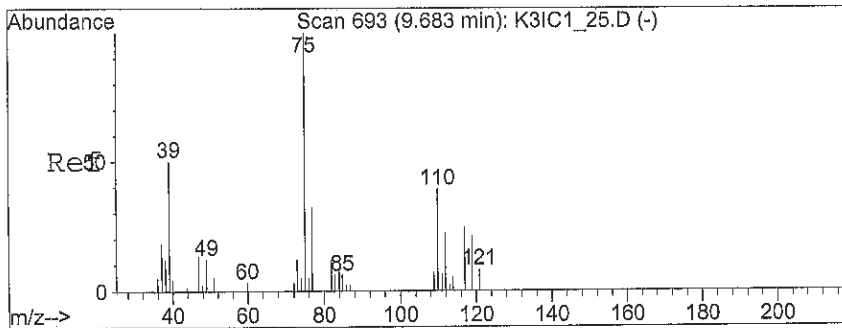
Tgt Ion: 83 Resp: 907
 Ion Ratio Lower Upper
 83 100
 85 391.5 51.8 77.6#



#25
 (ETBE) 2-ethoxy 2-methyl propan
 Concen: 0.17 ug/L
 RT: 8.37 min Scan# 537
 Delta R.T. -0.13 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

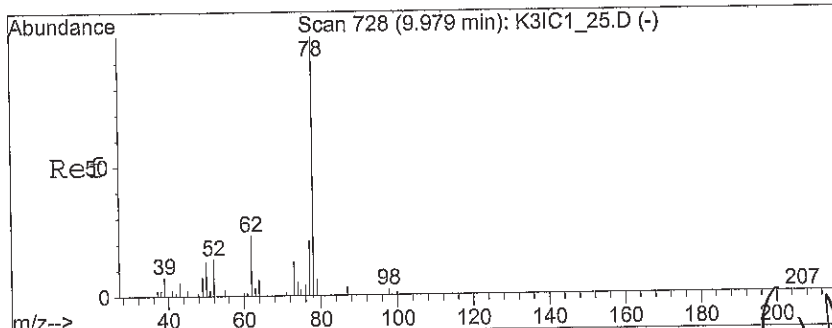
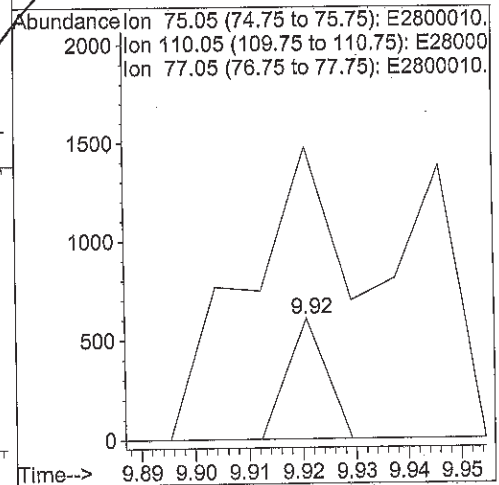
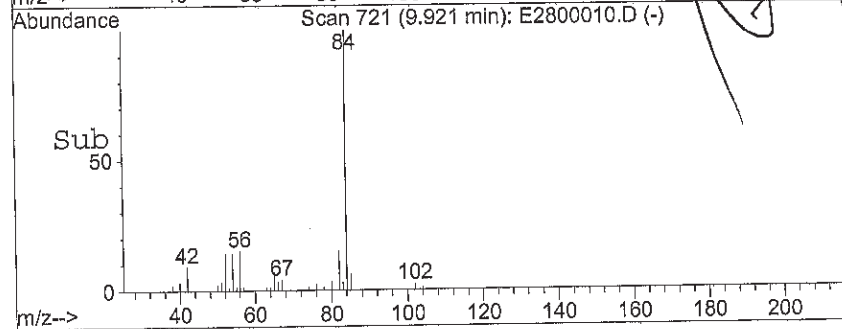
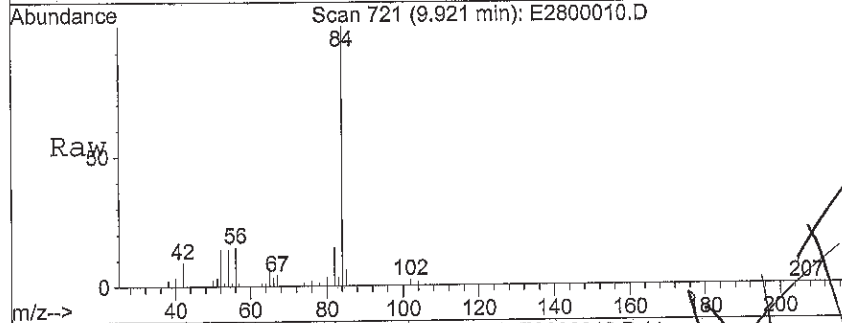
Tgt Ion: 59 Resp: 2158
 Ion Ratio Lower Upper
 59 100
 87 0.0 27.8 41.8#
 57 0.0 19.8 29.6#
 77 0.0 0.0 0.0





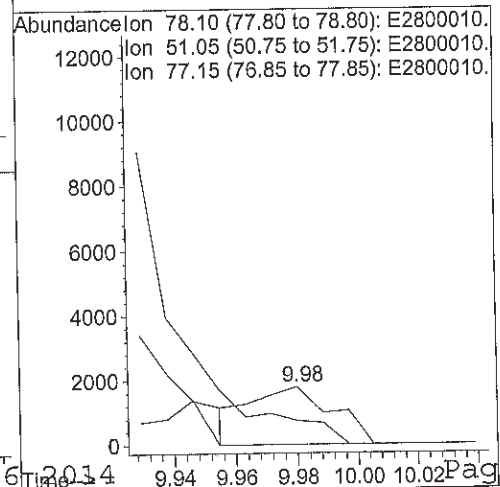
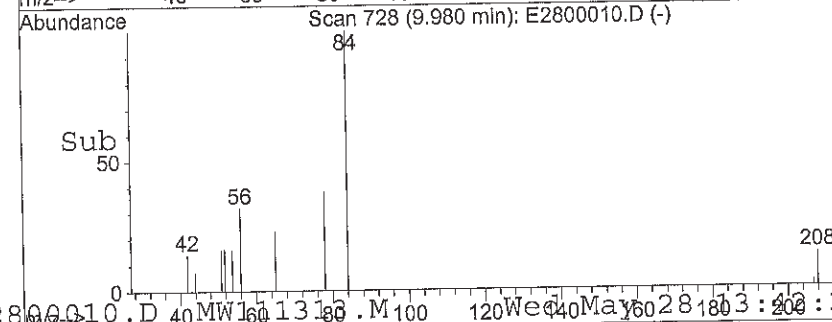
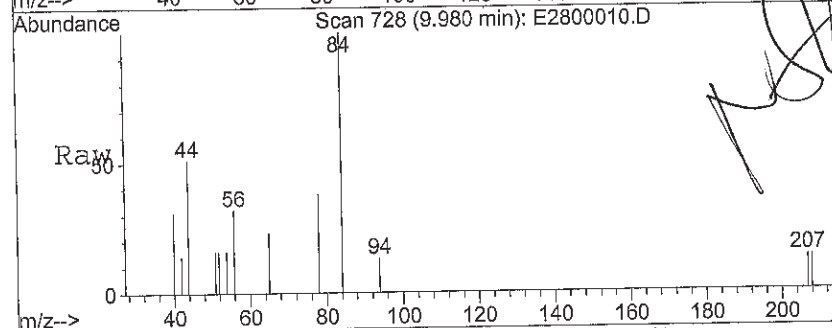
#29
 1,1-Dichloropropene
 Concen: 0.05 ug/L
 RT: 9.92 min Scan# 721
 Delta R.T. 0.24 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

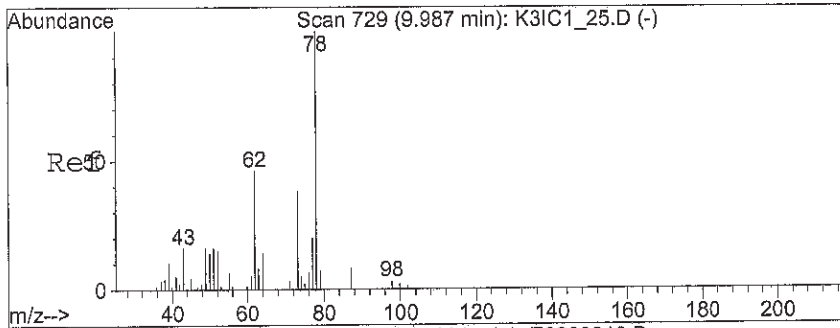
Tgt Ion: 75 Resp: 306
 Ion Ratio Lower Upper
 75 100
 110 0.0 29.0 43.6#
 77 743.1 25.0 37.4#



#31
 Benzene
 Concen: 0.20 ug/L
 RT: 9.98 min Scan# 728
 Delta R.T. 0.00 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

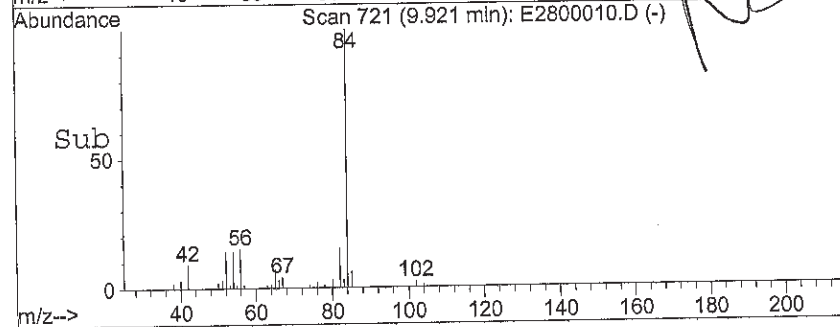
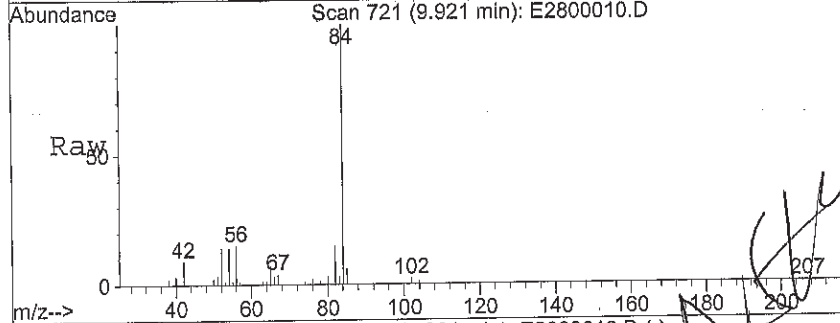
Tgt Ion: 78 Resp: 3347
 Ion Ratio Lower Upper
 78 100
 51 0.0 14.2 21.2#
 77 0.0 16.6 24.8#



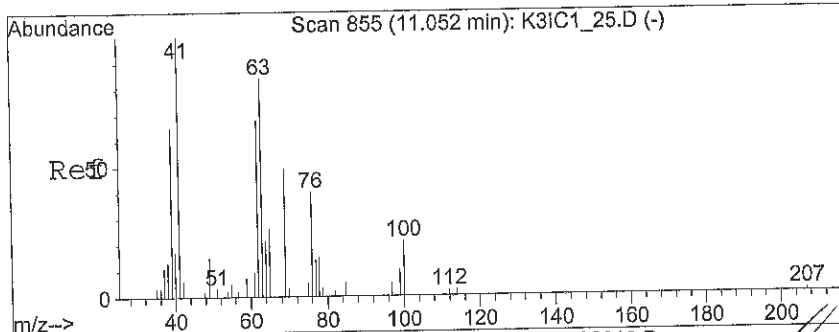
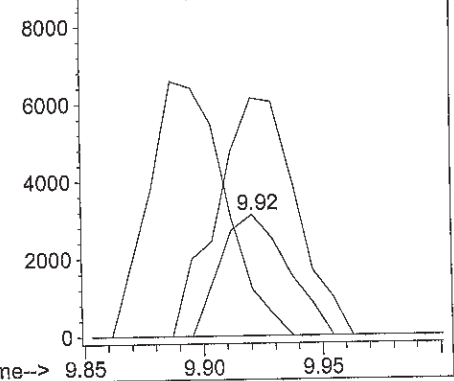


#32
1,2-Dichloroethane
Concen: 1.04 ug/L
RT: 9.92 min Scan# 721
Delta R.T. -0.07 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

Tgt Ion: 62 Resp: 6114
Ion Ratio Lower Upper
62 100
64 232.6 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#

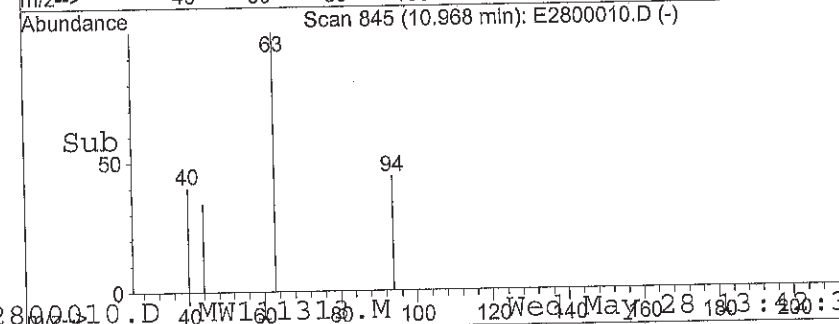
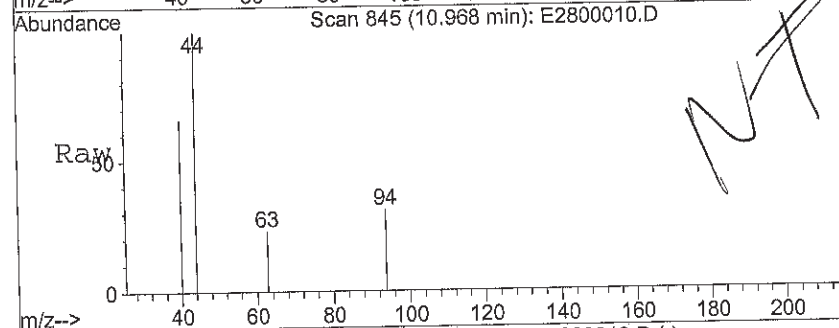


Abundance Ion 62.05 (61.75 to 62.75): E2800010.
Ion 64.05 (63.75 to 64.75): E2800010.
Ion 49.00 (48.70 to 49.70): E2800010.
Ion 98.05 (97.75 to 98.75): E2800010.

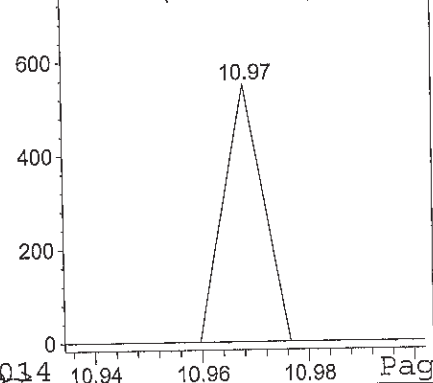


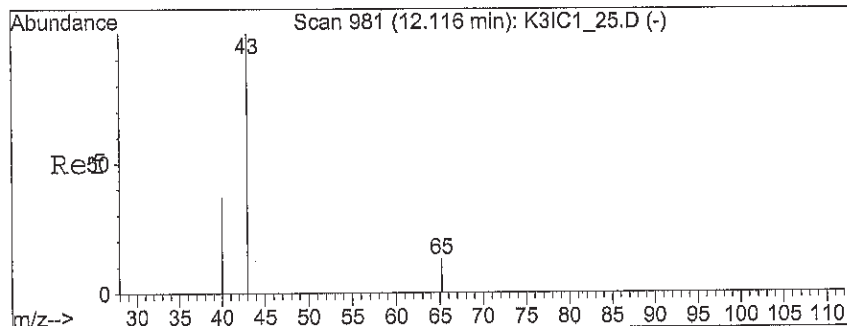
#34
1,2-Dichloropropane
Concen: 0.07 ug/L
RT: 10.97 min Scan# 845
Delta R.T. -0.08 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

Tgt Ion: 63 Resp: 279
Ion Ratio Lower Upper
63 100
62 0.0 67.4 101.2#
76 0.0 40.3 60.5#
41 0.0 103.0 154.6#



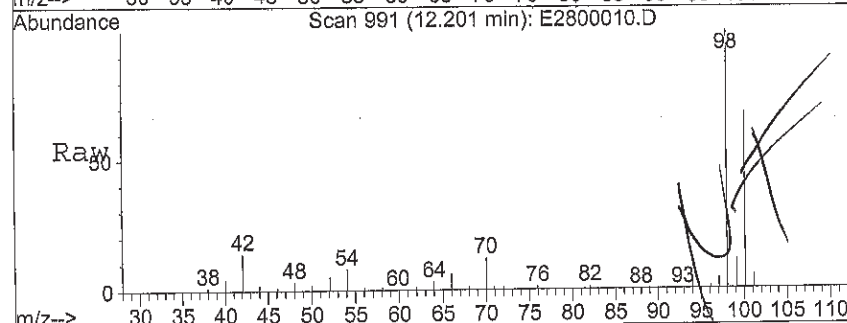
Abundance Ion 63.05 (62.75 to 63.75): E2800010.
Ion 62.05 (61.75 to 62.75): E2800010.
Ion 76.05 (75.75 to 76.75): E2800010.
Ion 41.05 (40.75 to 41.75): E2800010.





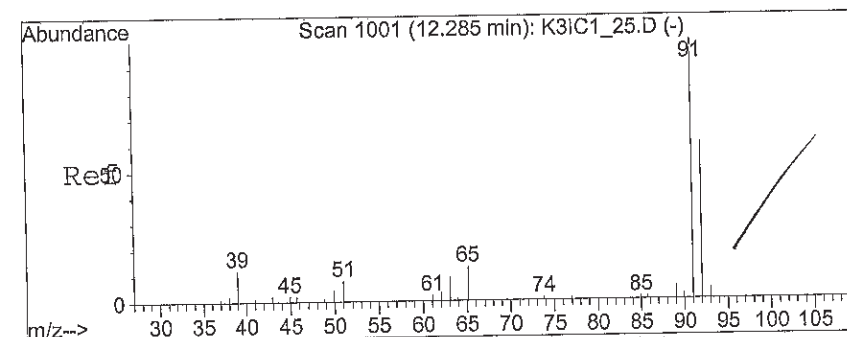
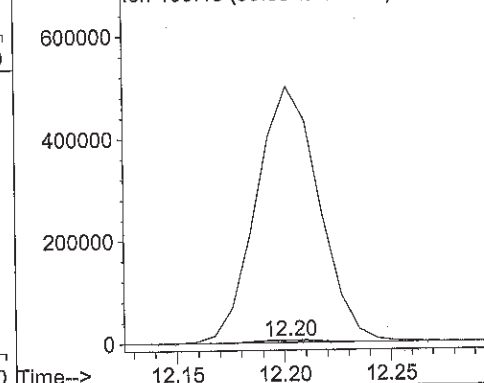
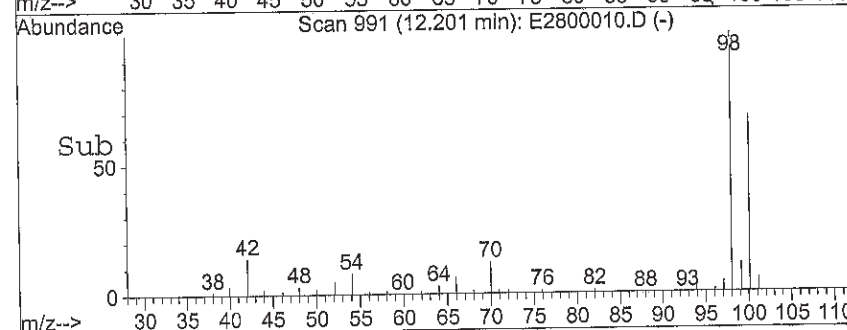
#40
(MIBK) 4-Methyl-2-Pentanone
Concen: 2.74 ug/L
RT: 12.20 min Scan# 991
Delta R.T. 0.09 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

Tgt Ion: 43 Resp: 7402
Ion Ratio Lower Upper
43 100
58 141.2 0.0 0.0#
85 0.0 0.0 0.0
100 13771.0 0.0 0.0#



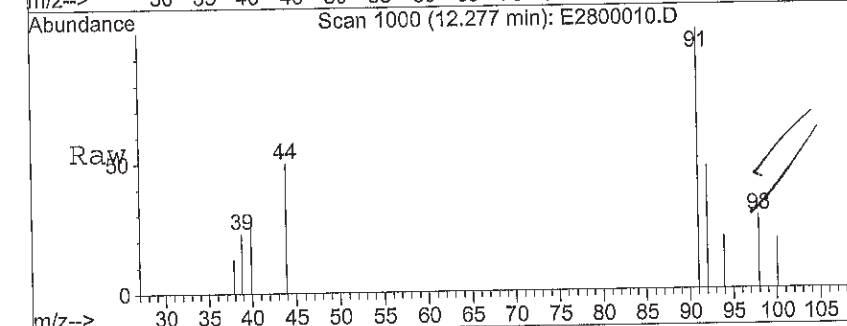
Abundance

Ion 43.00 (42.70 to 43.70): E2800010.
Ion 58.10 (57.80 to 58.80): E2800010.
Ion 85.05 (84.75 to 85.75): E2800010.
Ion 100.15 (99.85 to 100.85): E2800010.



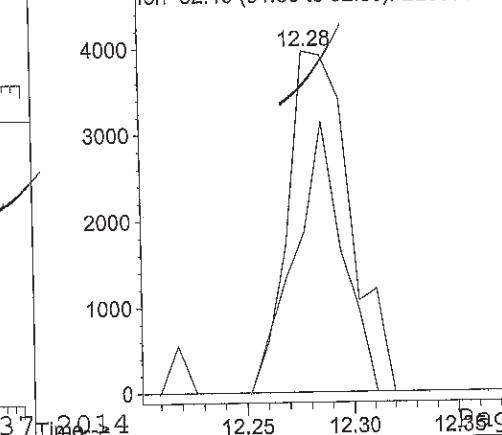
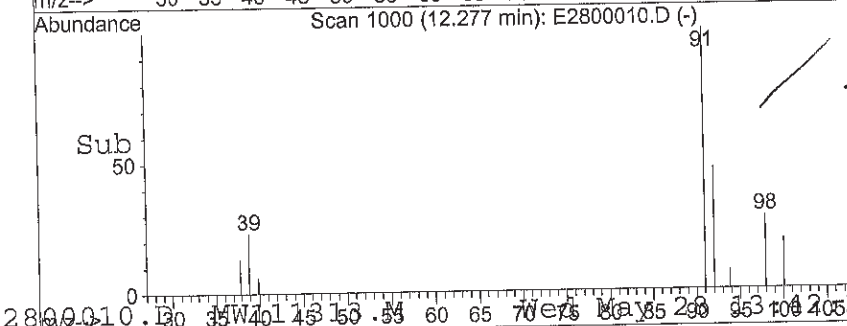
#41
Toluene
Concen: 0.44 ug/L
RT: 12.28 min Scan# 1000
Delta R.T. -0.01 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

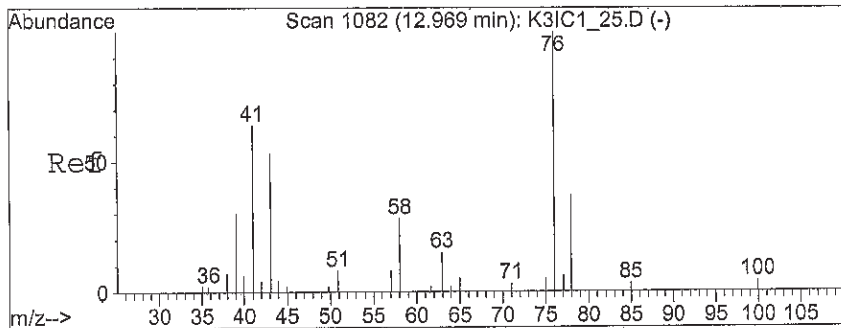
Tgt Ion: 91 Resp: 8050
Ion Ratio Lower Upper
91 100
92 60.6 47.4 71.0



Abundance

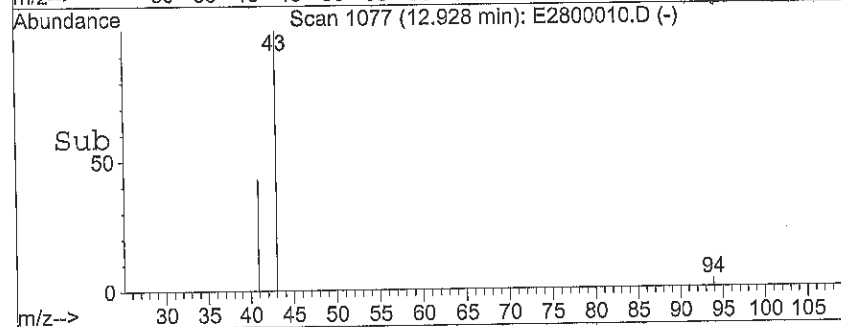
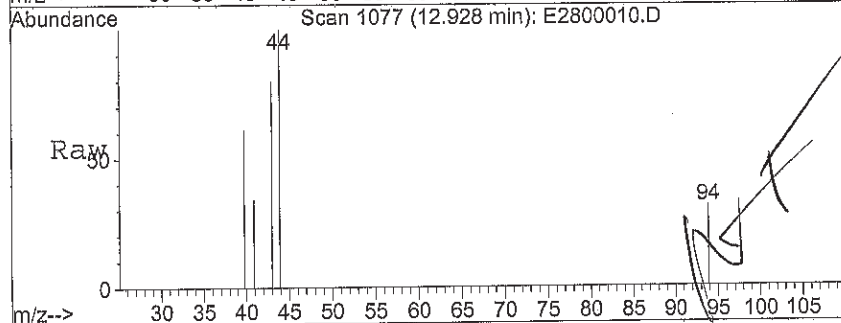
Ion 91.10 (90.80 to 91.80): E2800010.
Ion 92.10 (91.80 to 92.80): E2800010.



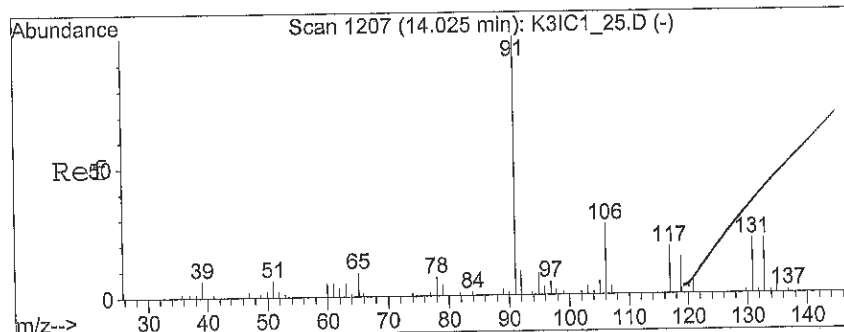
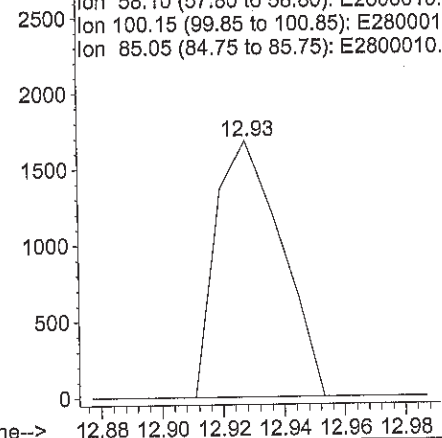


#46
2-Hexanone
Concen: 0.85 ug/L
RT: 12.93 min Scan# 1077
Delta R.T. -0.04 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

Tgt Ion:	43	Resp:	2499
Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.9	61.3#
100	0.0	5.5	8.3#
85	0.0	4.3	6.5#

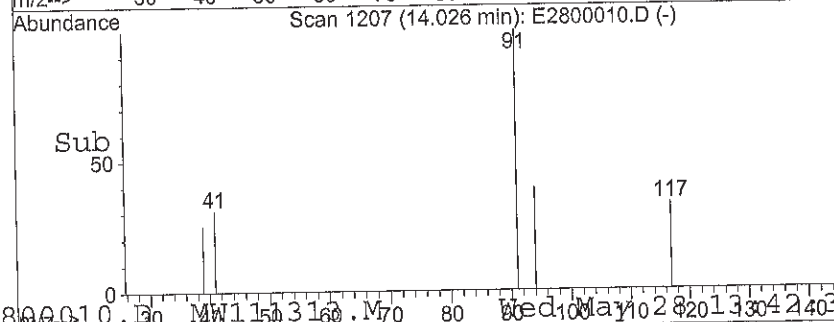
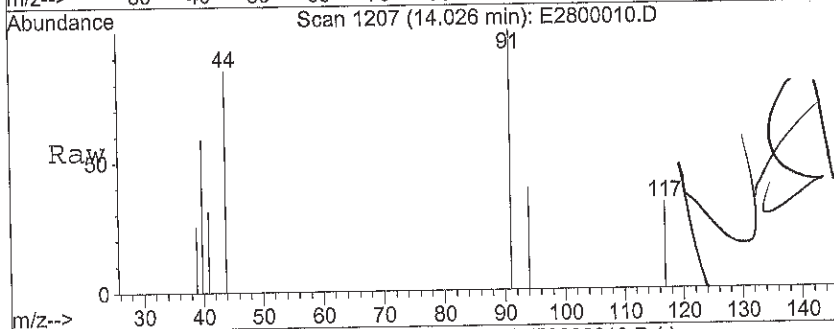


Abundance Ion 43.00 (42.70 to 43.70): E2800010.
Ion 58.10 (57.80 to 58.80): E2800010.
Ion 100.15 (99.85 to 100.85): E2800010.
Ion 85.05 (84.75 to 85.75): E2800010.

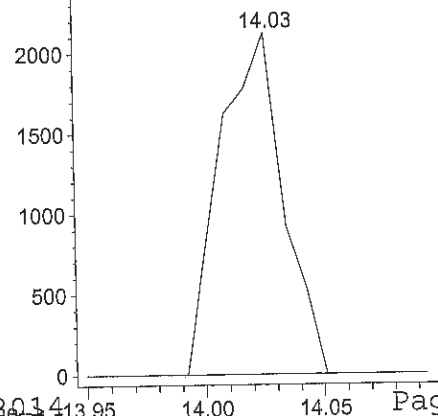


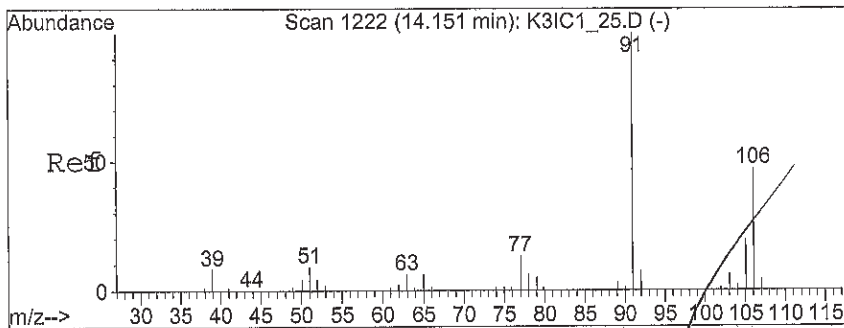
#51
Ethylbenzene
Concen: 0.19 ug/L
RT: 14.03 min Scan# 1207
Delta R.T. 0.00 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

Tgt Ion:	91	Resp:	3958
Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.5	35.3#



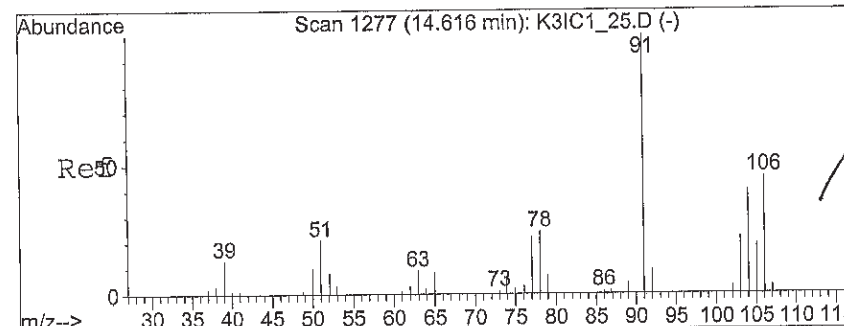
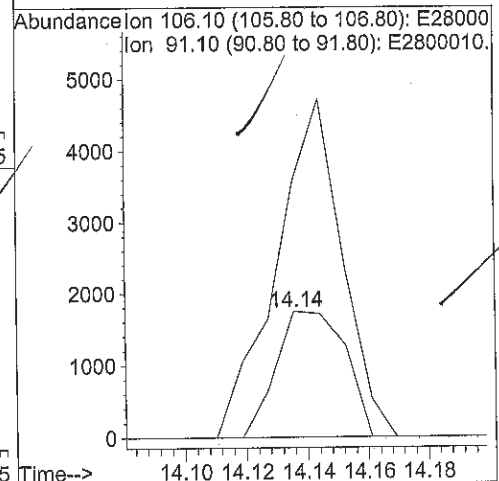
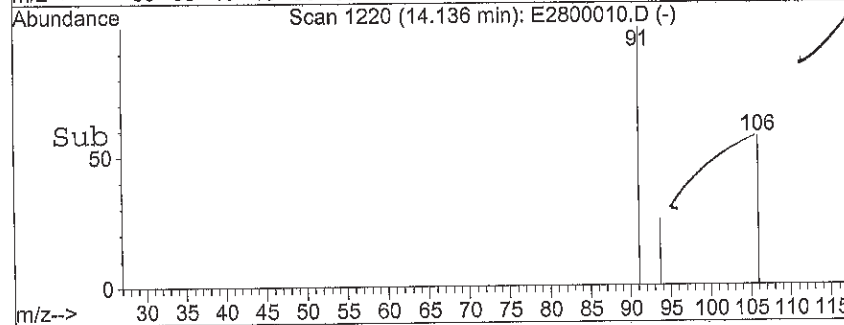
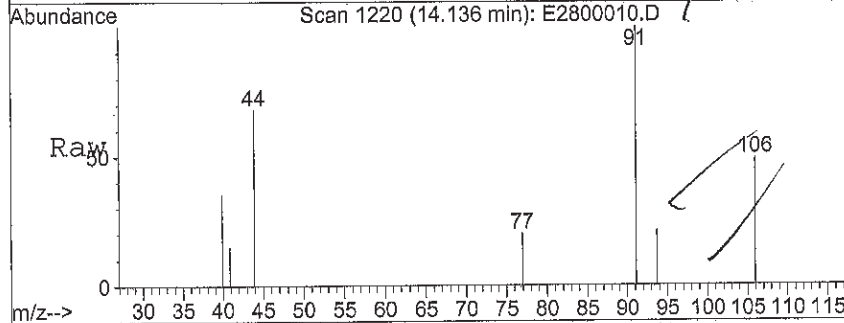
Abundance Ion 91.10 (90.80 to 91.80): E2800010.
Ion 106.20 (105.90 to 106.90): E2800010.





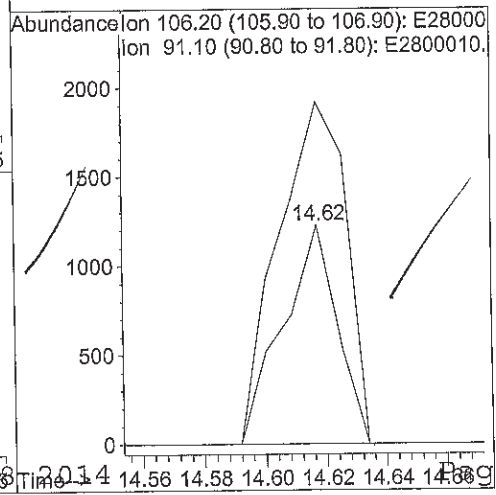
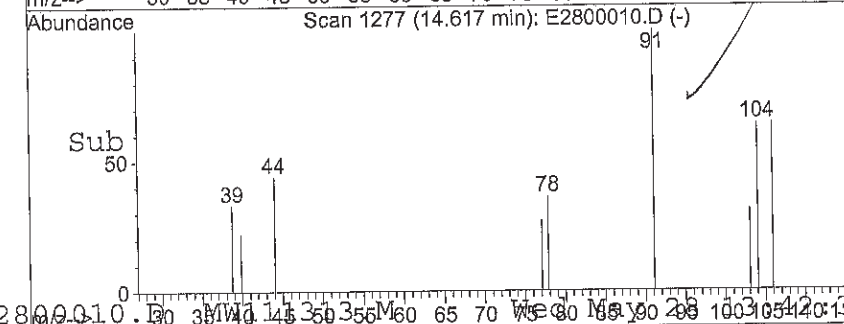
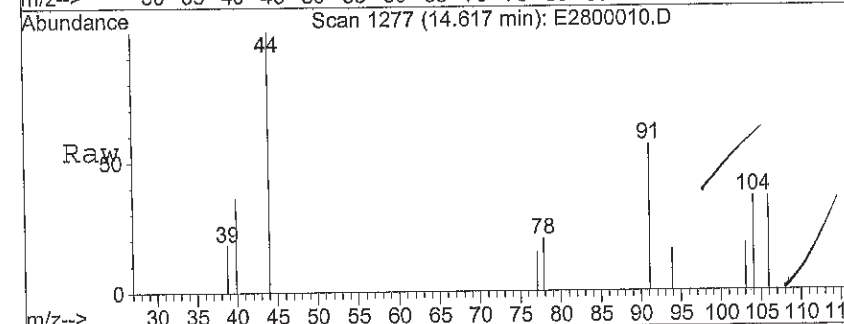
#52
m,p-Xylenes
Concen: 0.37 ug/L
RT: 14.14 min Scan# 1220
Delta R.T. -0.02 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

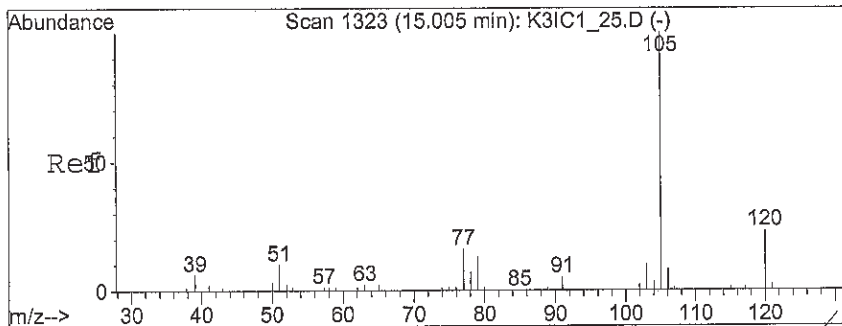
Tgt Ion:106 Resp: 2727
Ion Ratio Lower Upper
106 100
91 257.2 177.1 265.7



#53
o-Xylene
Concen: 0.21 ug/L
RT: 14.62 min Scan# 1277
Delta R.T. 0.00 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

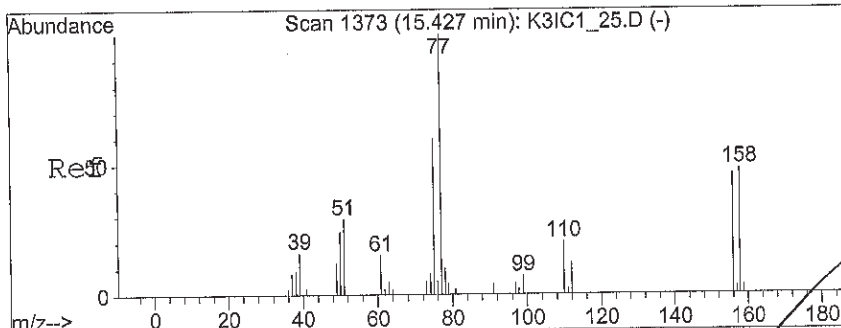
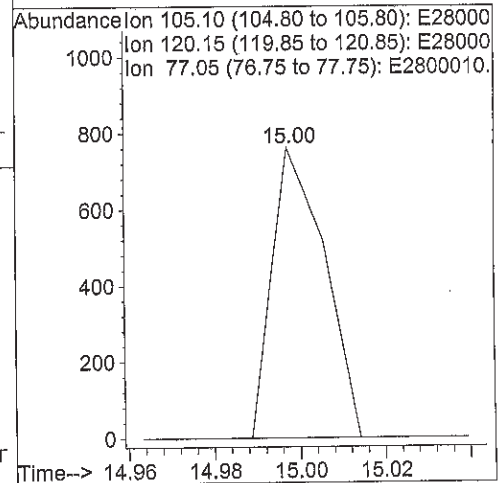
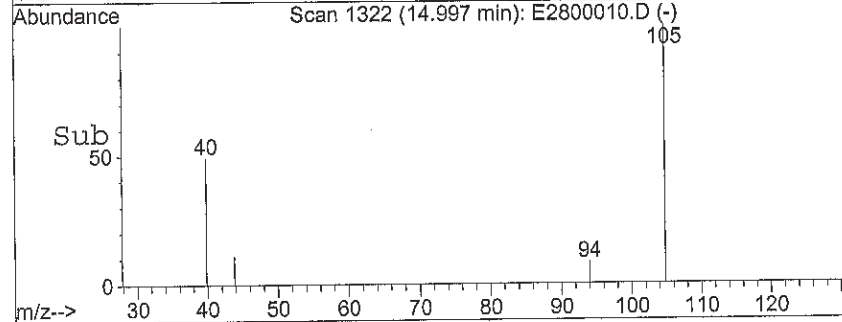
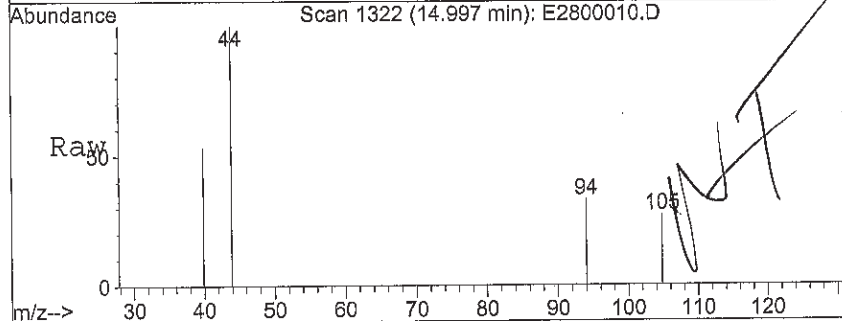
Tgt Ion:106 Resp: 1514
Ion Ratio Lower Upper
106 100
91 195.2 179.0 268.6





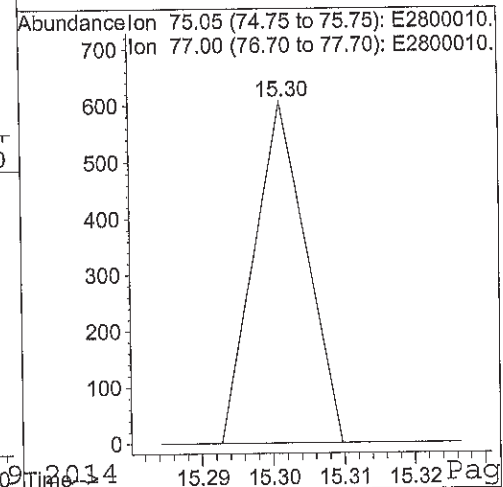
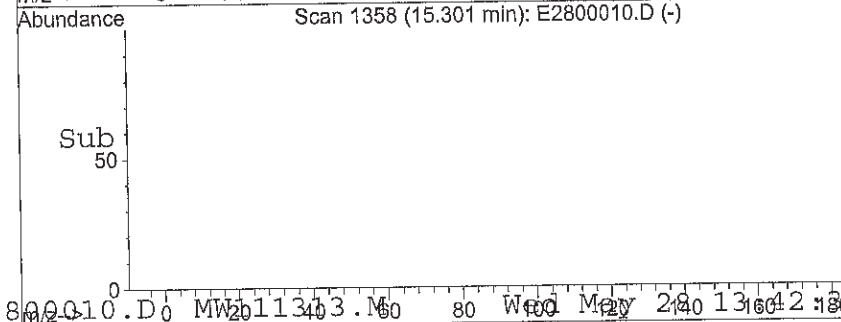
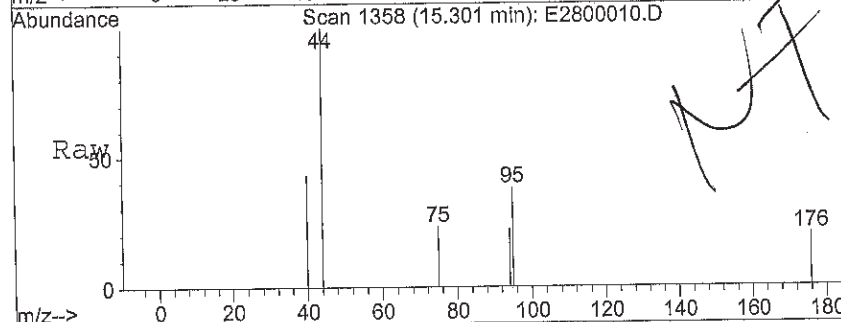
#56
Isopropylbenzene
Concen: 0.03 ug/L
RT: 15.00 min Scan# 1322
Delta R.T. -0.01 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

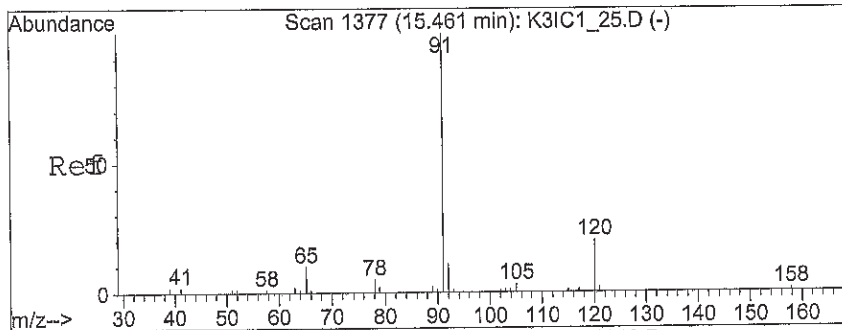
Tgt Ion: 105 Resp: 648
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 0.0 13.1 19.7#



#57
1,2,3-Trichloropropane
Concen: 0.06 ug/L
RT: 15.30 min Scan# 1358
Delta R.T. -0.13 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

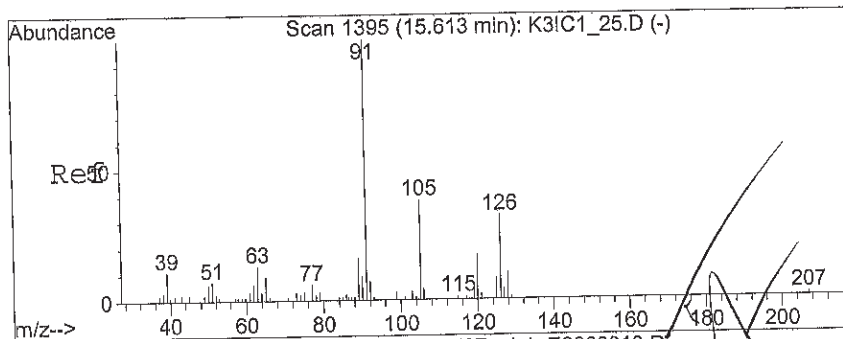
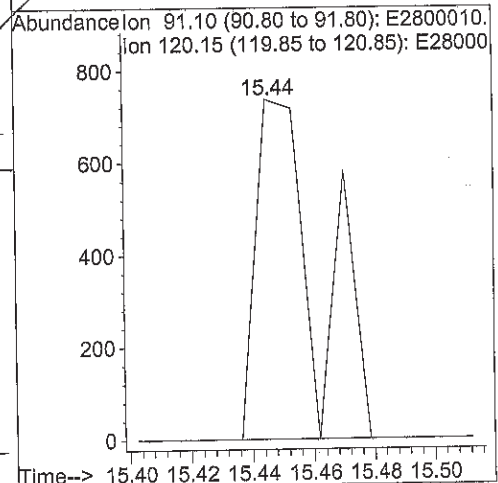
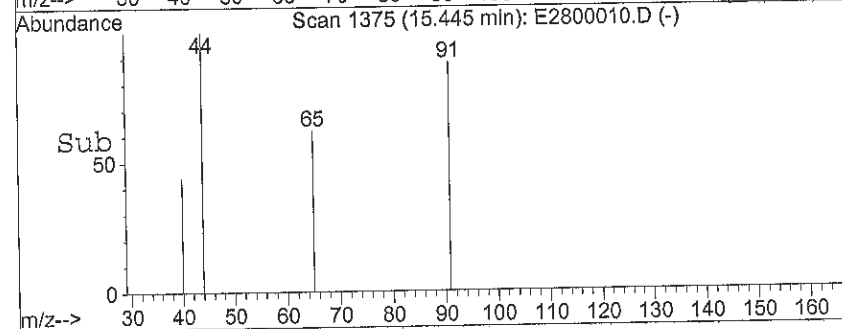
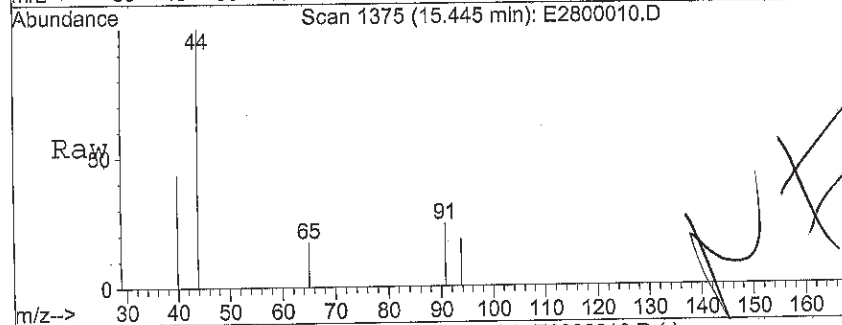
Tgt Ion: 75 Resp: 308
Ion Ratio Lower Upper
75 100
77 0.0 31.2 46.8#





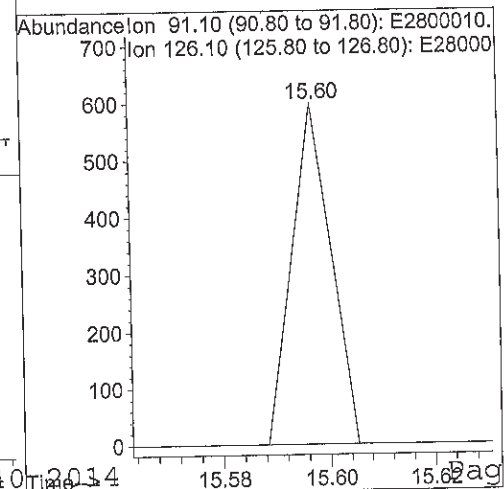
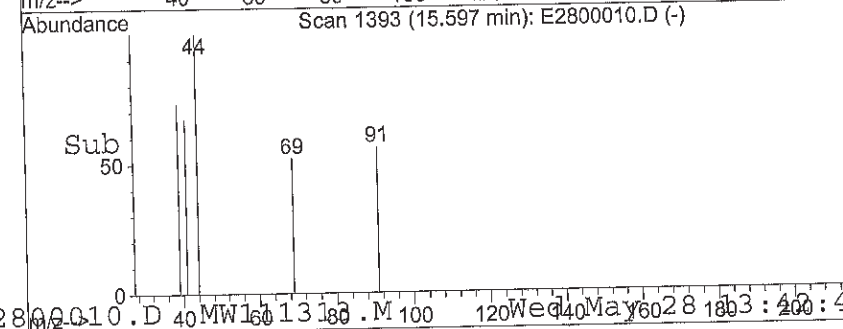
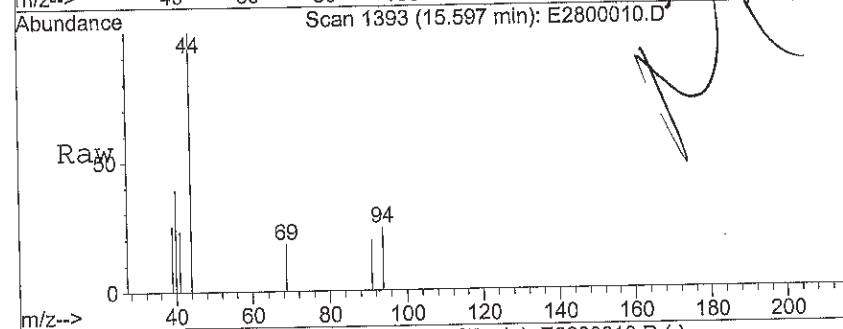
#62
n-Propylbenzene
Concen: 0.04 ug/L
RT: 15.44 min Scan# 1375
Delta R.T. -0.02 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

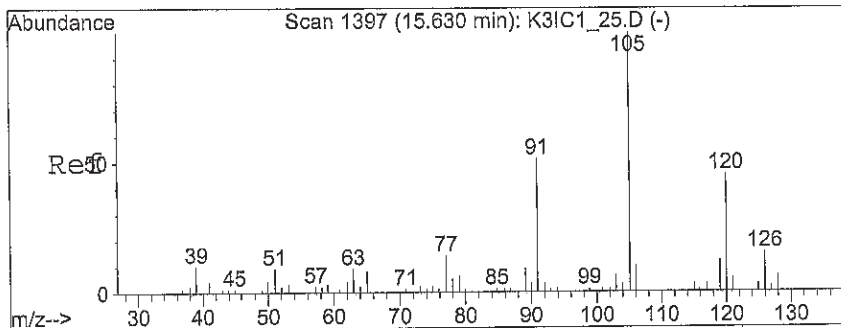
Tgt Ion: 91 Resp: 1030
Ion Ratio Lower Upper
91 100
120 0.0 16.1 24.1#



#63
2-Chlorotoluene
Concen: 0.02 ug/L
RT: 15.60 min Scan# 1393
Delta R.T. -0.02 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

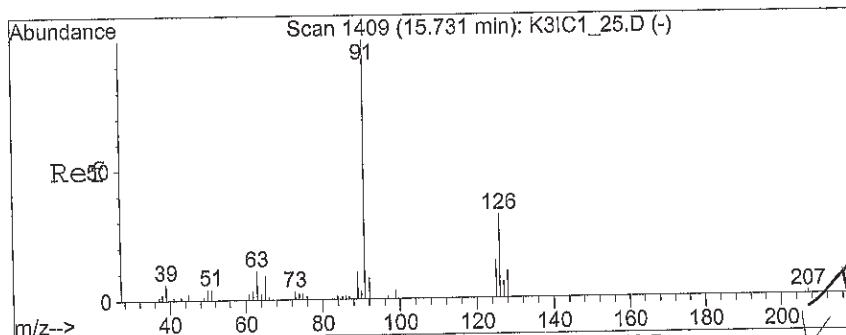
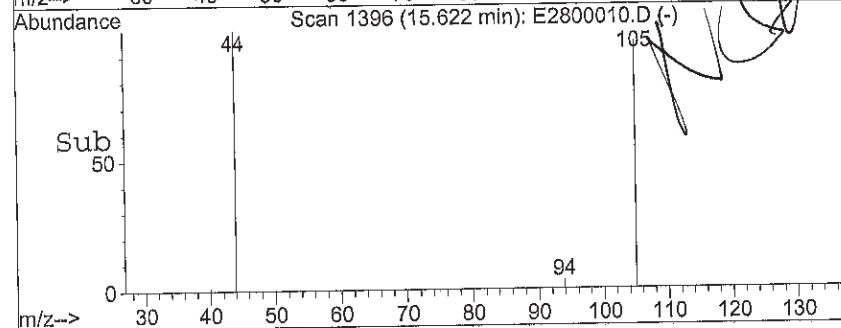
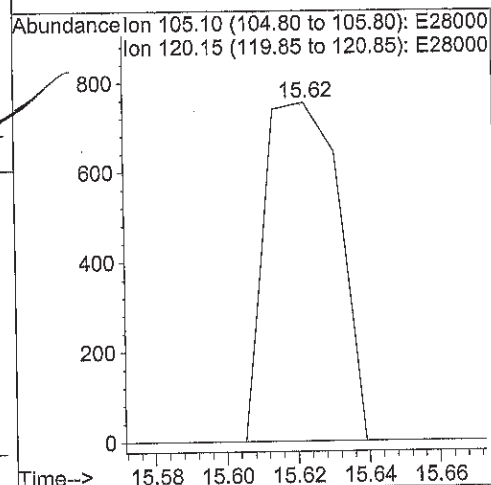
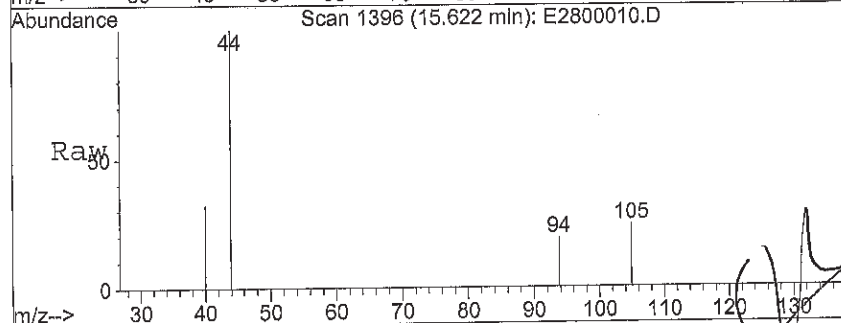
Tgt Ion: 91 Resp: 303
Ion Ratio Lower Upper
91 100
126 0.0 24.0 36.0#





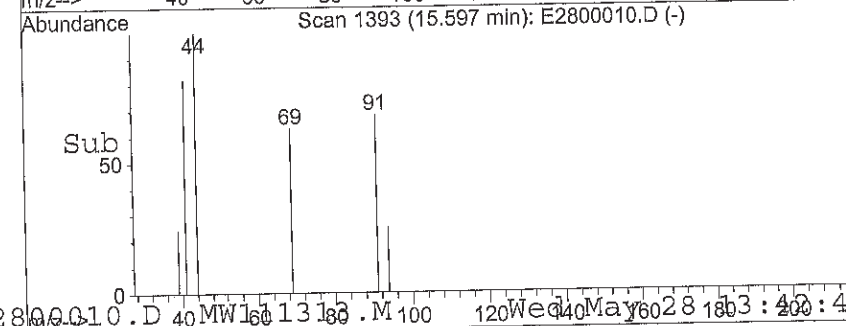
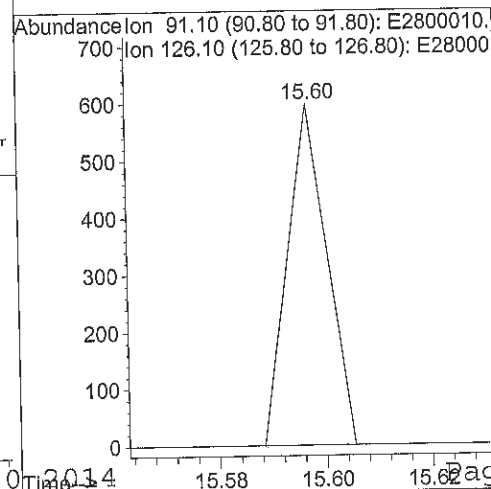
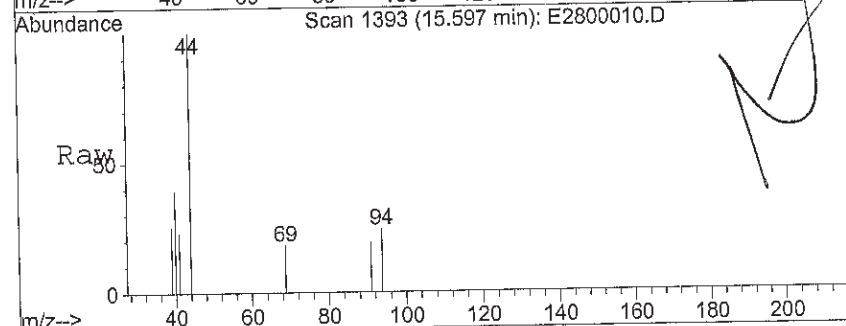
#64
 1,3,5-Trimethylbenzene
 Concen: 0.06 ug/L
 RT: 15.62 min Scan# 1396
 Delta R.T. -0.01 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

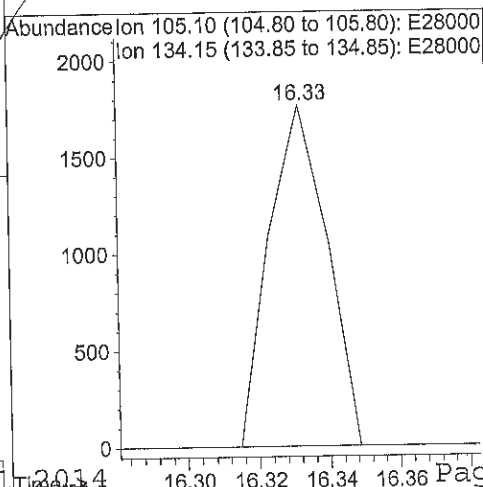
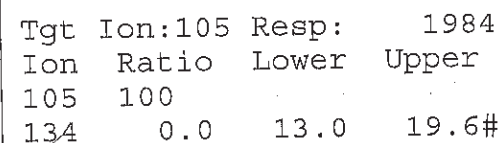
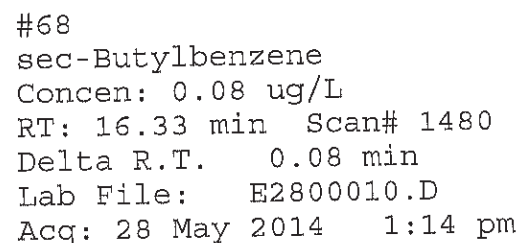
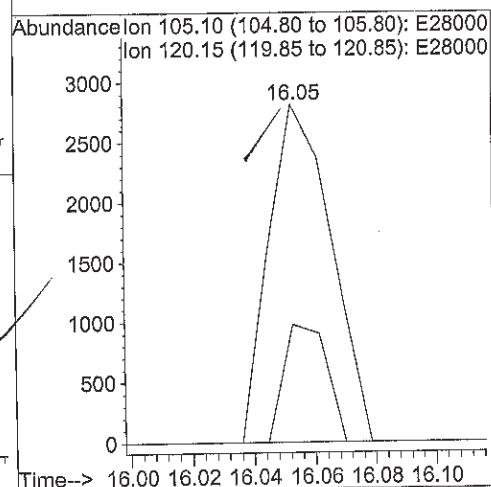
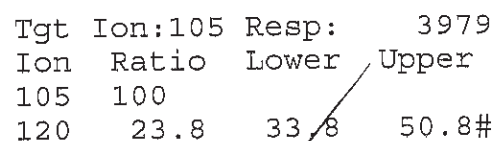
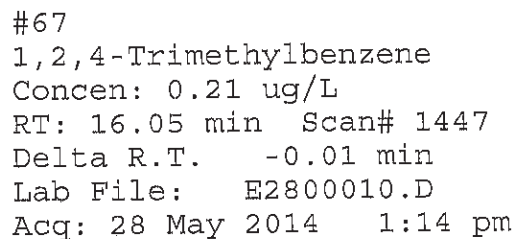
Tgt Ion: 105 Resp: 1083
 Ion Ratio Lower Upper
 105 100
 120 0.0 36.4 54.6#

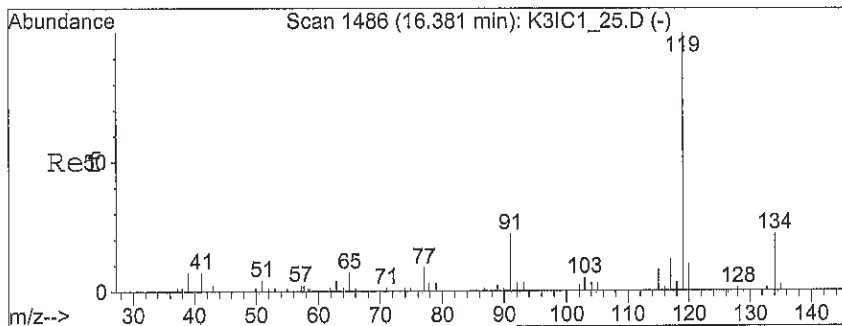


#65
 4-Chlorotoluene
 Concen: 0.02 ug/L
 RT: 15.60 min Scan# 1393
 Delta R.T. -0.13 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

Tgt Ion: 91 Resp: 303
 Ion Ratio Lower Upper
 91 100
 126 0.0 24.6 36.8#

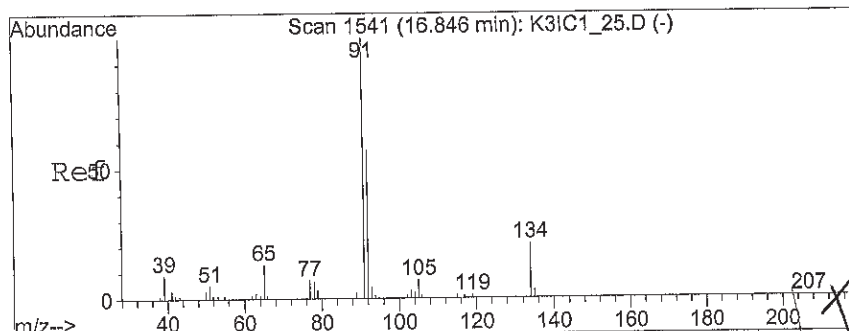
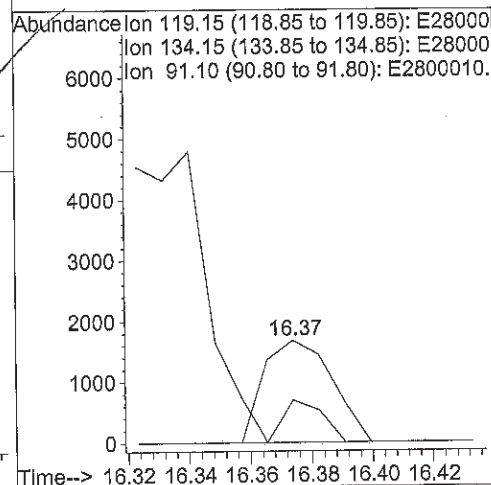
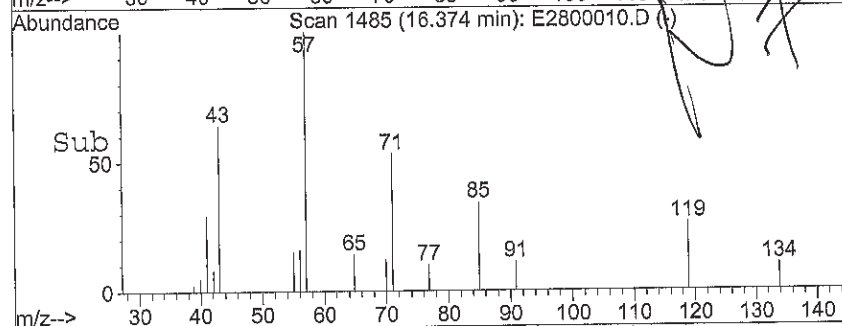
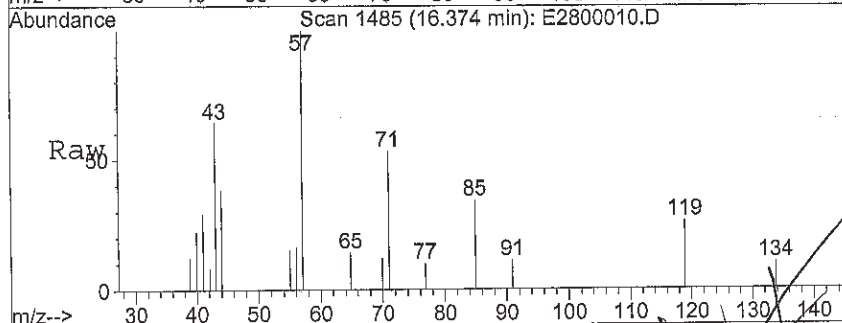






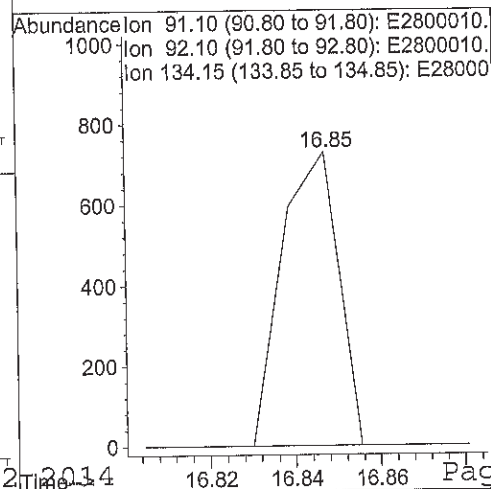
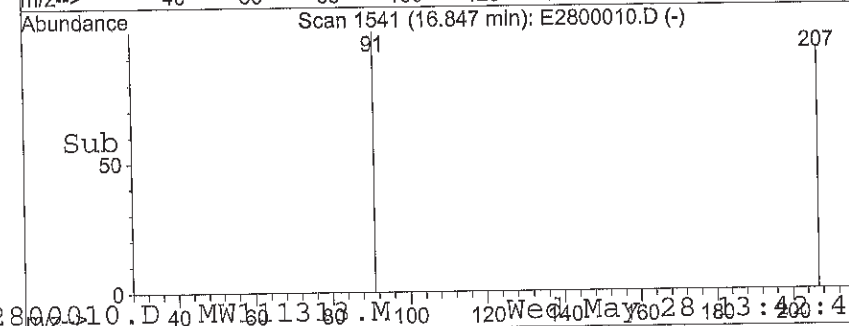
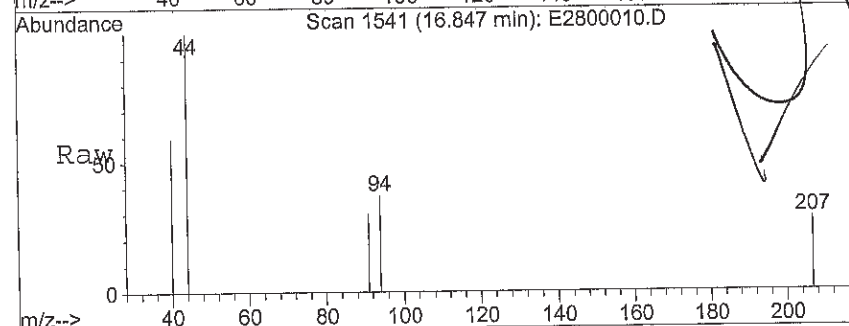
#69
 p-Isopropyltoluene
 Concen: 0.13 ug/L
 RT: 16.37 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

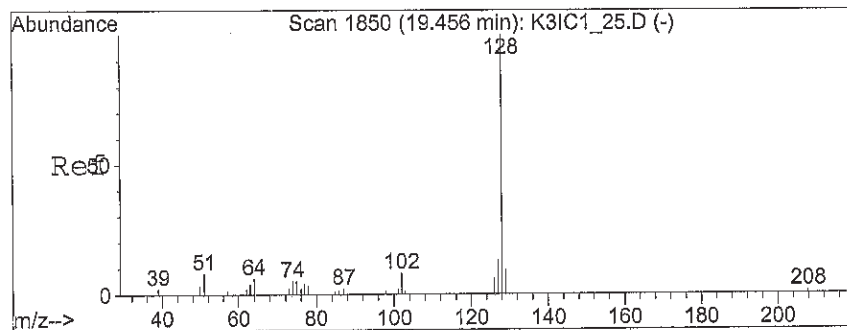
Tgt Ion:	119	Resp:	2595
Ion	Ratio	Lower	Upper
119	100		
134	0.0	17.4	26.2#
91	23.8	19.6	29.4



#72
 n-Butylbenzene
 Concen: 0.03 ug/L
 RT: 16.85 min Scan# 1541
 Delta R.T. 0.00 min
 Lab File: E2800010.D
 Acq: 28 May 2014 1:14 pm

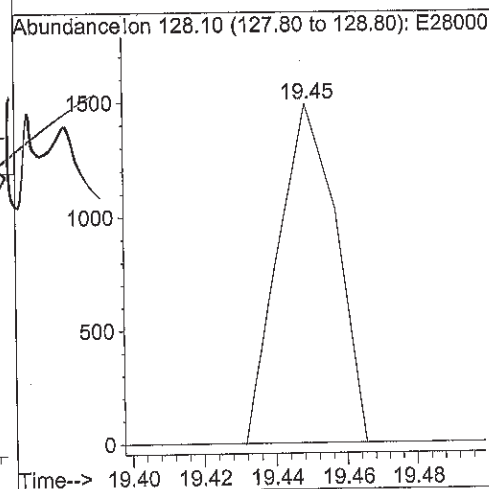
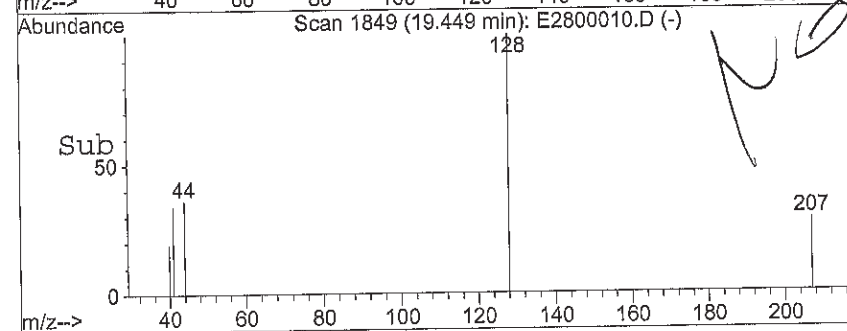
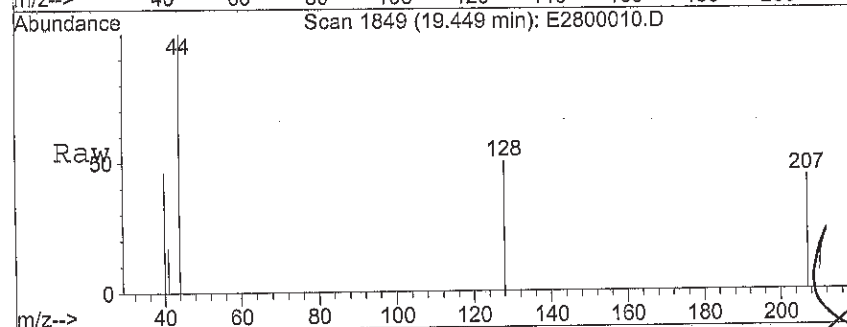
Tgt Ion:	91	Resp:	670
Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.0	70.4#
134	0.0	18.1	27.1#





#77
Naphthalene
Concen: 0.12 ug/L
RT: 19.45 min Scan# 1849
Delta R.T. -0.01 min
Lab File: E2800010.D
Acq: 28 May 2014 1:14 pm

Tgt Ion:128 Resp: 1678



Data File : C:\HPCHEM\1\DATA\052814L3\E2800010.D

Vial: 1

Acq On : 28 May 2014 1:14 pm

Operator: DN

Sample : 3E42801-09

Inst : GC/MS Ins

Misc : 100cc SVL-510-SA5D-SV-7.5-8.5

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 13:45 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.28	96	1758241	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.92	117	1350650	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	724286	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	477796	10.45	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	83.60%
3) Chloroform-d (SU6)	9.18	84	725914	11.06	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	88.48%
4) Methylene Chloride-d2 (SU5)	7.07	86	414130	10.80	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	86.40%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	457547	14.64	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	117.12%
6) Benzene-d6 (SU7)	9.92	84	1433329	10.39	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	83.12%
8) Toluene-d8 (SU3)	12.20	98	1500571	11.71	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	93.68%
9) 4-Bromofluorobenzene (SU4)	15.22	95	730869	13.82	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	110.56%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2800010.D SS072713.M

Wed May 28 13:45:07 2014

Page 1

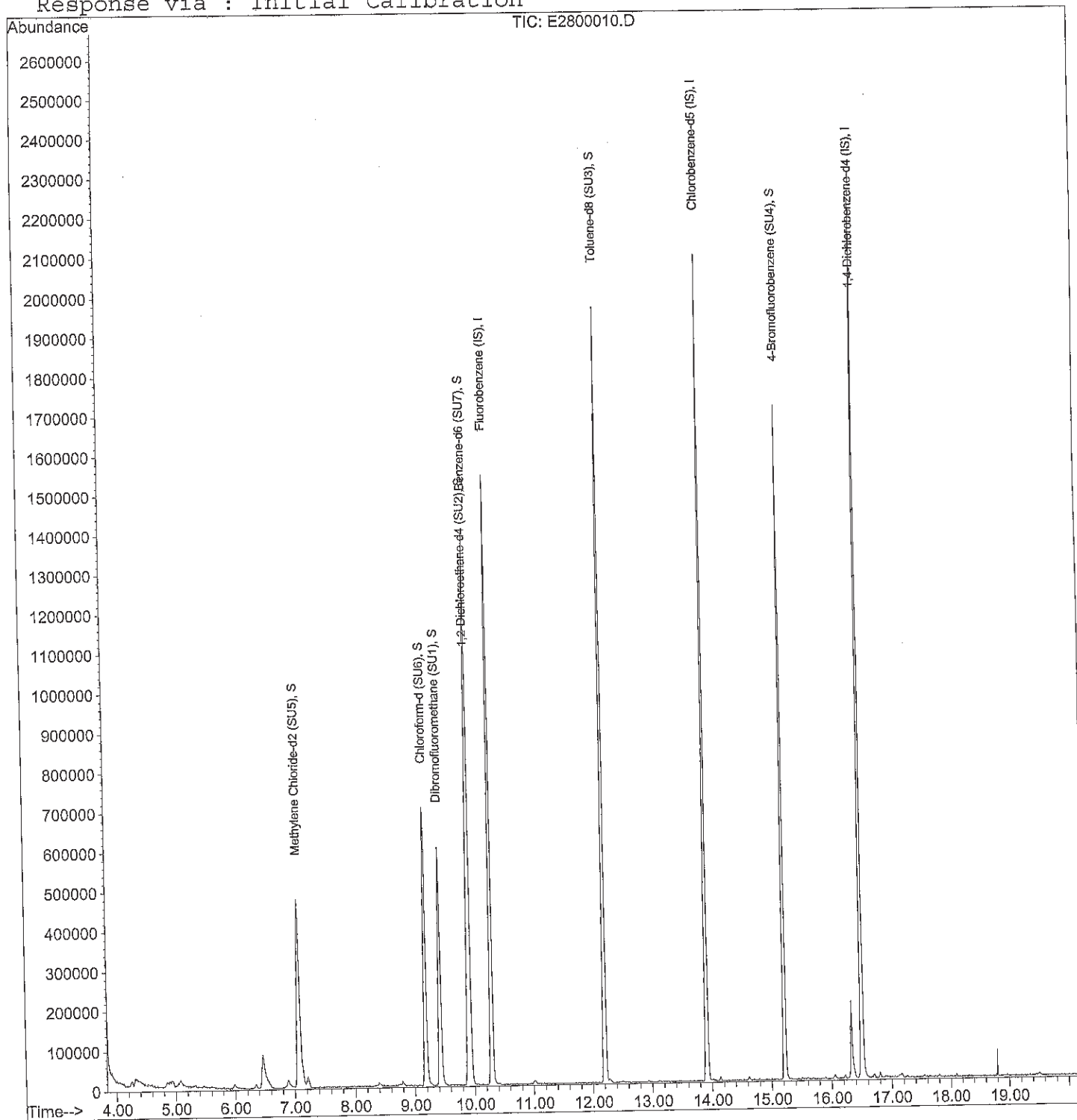
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800010.D
 Acq On : 28 May 2014 1:14 pm
 Sample : 3E42801-09
 Misc : 100cc SVL-510-SA5D-SV-7.5-8.5
 MS Integration Params: rteint.p
 Quant Time: May 28 13:45 19114

Vial: 1
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052814L3\E2800011.D
 Acq On : 28 May 2014 1:50 pm
 Sample : 3E42801-10
 Misc : 100cc SVL-544-SA5D-SV-4.5-5.5
 MS Integration Params: rteint.p
 Quant Time: May 28 14:11 19114

Vial: 2
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.28	96	1619122	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1276085	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	681965	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	460228	11.40	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	91.20%
28) 1,2-Dichloroethane-d4 (SU2)	9.89	65	447728	11.66	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	93.28%
39) Toluene-d8 (SU3)	12.20	98	1424769	11.97	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.76%
58) 4-Bromofluorobenzene (SU4)	15.22	95	701649	13.44	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	107.52%

Target Compounds

					Qvalue
4) Chloromethane	4.40	50	4606	0.48 ug/L	#8M 41
6) Bromomethane	5.06	96	7305	2.32 ug/L	# 1
7) Chloroethane	5.07	64	1204	1.58 ug/L	# 87
9) (F113) 1,1,2-Trichloro-tri	6.35	151	1201	0.38 ug/L	0.0076 86
10) 1,1-Dichloroethene	6.33	96	280	0.07 ug/L	#8M 1
11) Acetone	6.47	58	2346	180.01 ug/L	# 1
12) (IPA) Leak Check Compound	6.47	45	216673	1113.65 ug/L	#8M 83
13) Carbon disulfide	6.84	76	10529	0.78 ug/L	# 99
14) Methylene Chloride	7.06	84	6857	1.54 ug/L	# 1
15) (TBA) tert-Butanol	6.88	59	2446	8.86 ug/L	# 77
24) Chloroform	9.20	83	1832	0.22 ug/L	#8M 18
25) (ETBE) 2-ethoxy 2-methyl p	8.33	59	554	0.05 ug/L	# 44
29) 1,1-Dichloropropene	9.93	75	310	0.05 ug/L	# 1
31) Benzene	9.98	78	8467	0.56 ug/L	# 77
32) 1,2-Dichloroethane	9.92	62	6108	1.13 ug/L	# 1
40) (MIBK) 4-Methyl-2-Pentanone	12.19	43	7870	3.09 ug/L	# 100
41) Toluene	12.29	91	60653	3.49 ug/L	0.0698 95
42) trans-1,3-Dichloropropene	12.51	75	275	0.05 ug/L	# 36
46) 2-Hexanone	12.91	43	894	0.32 ug/L	# 37
51) Ethylbenzene	14.02	91	18307	0.93 ug/L	0.0186 95
52) m,p-Xylenes	14.14	106	18414	2.62 ug/L	0.0524 87
53) o-Xylene	14.61	106	10065	1.45 ug/L	0.029 99

(#) = qualifier out of range (m) = manual integration

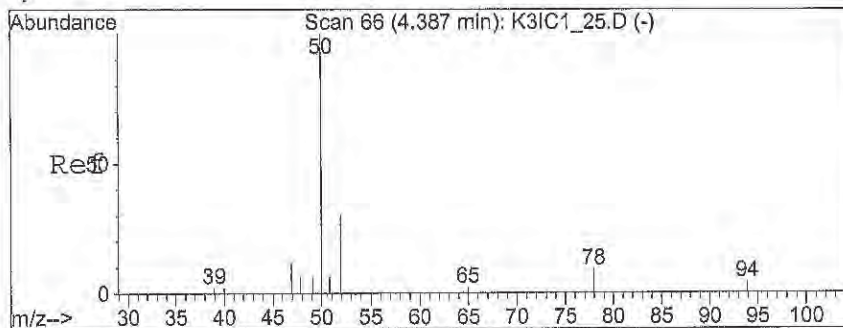
Data File : C:\HPCHEM\1\DATA\052814L3\E2800011.D
Acq On : 28 May 2014 1:50 pm
Sample : 3E42801-10
Misc : 100cc SVL-544-SA5D-SV-4.5-5.5
MS Integration Params: rteint.p
Quant Time: May 28 14:11 19114

Vial: 2
Operator: DN
Inst : GC/MS Ins
Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
54) Styrene	14.62	104	2047	-0.67	ug/L #	5
56) Isopropylbenzene	15.01	105	602	0.03	ug/L #	44
57) 1,2,3-Trichloropropane	15.34	75	337	0.06	ug/L #	36
62) n-Propylbenzene	15.46	91	1688	0.06	ug/L #	56
63) 2-Chlorotoluene	15.54	91	477	0.03	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.62	105	1411	0.08	ug/L #	31
65) 4-Chlorotoluene	15.54	91	477	0.03	ug/L #	44
66) tert-Butylbenzene	16.07	119	286	0.02	ug/L #	24
67) 1,2,4-Trimethylbenzene	16.05	105	4975	0.28	ug/L #	89
68) sec-Butylbenzene	16.32	105	1057	0.05	ug/L #	62
69) p-Isopropyltoluene	16.37	119	1376	0.07	ug/L #	74
77) Naphthalene	19.45	128	732	0.05	ug/L #	100



#4

Chloromethane

Concen: 0.48 ug/L

RT: 4.40 min Scan# 67

Delta R.T. 0.01 min

Lab File: E2800011.D

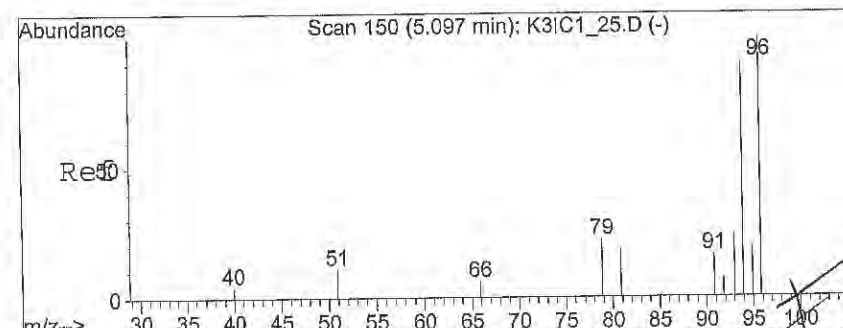
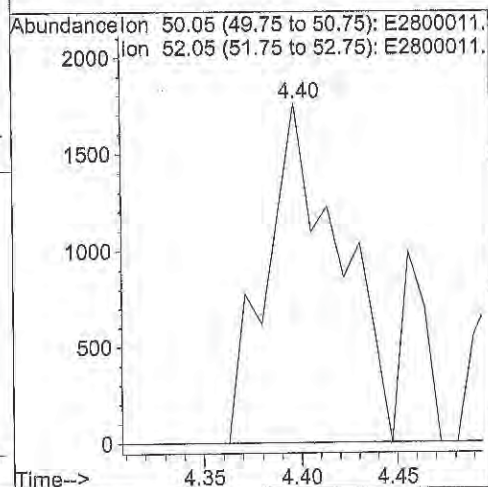
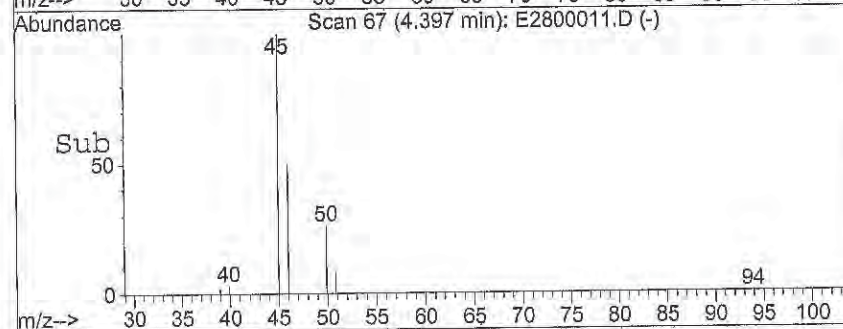
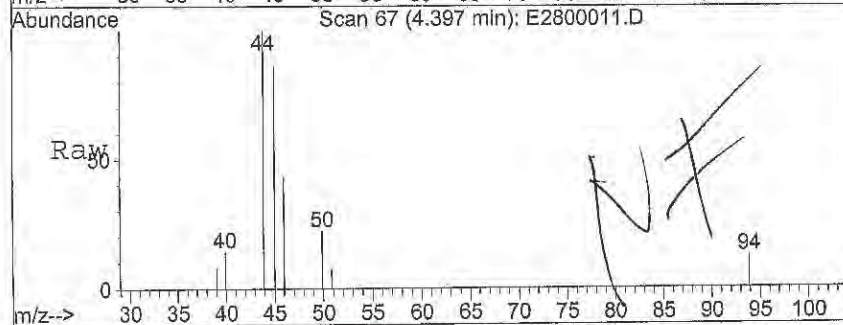
Acq: 28 May 2014 1:50 pm

Tgt Ion: 50 Resp: 4606

Ion Ratio Lower Upper

50 100

52 0.0 26.9 40.3#



#6

Bromomethane

Concen: 2.32 ug/L

RT: 5.06 min Scan# 146

Delta R.T. -0.03 min

Lab File: E2800011.D

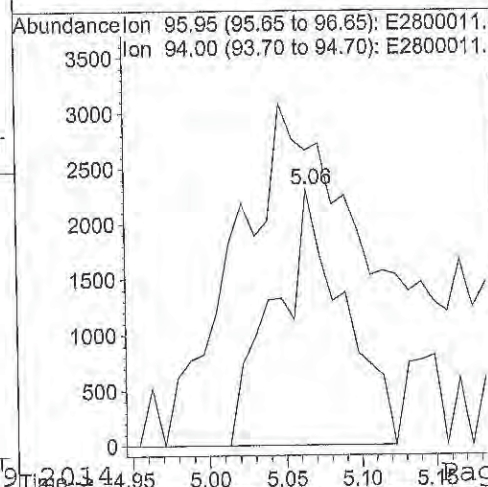
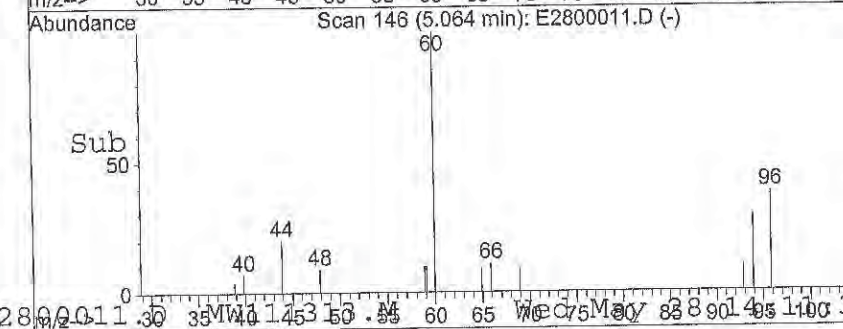
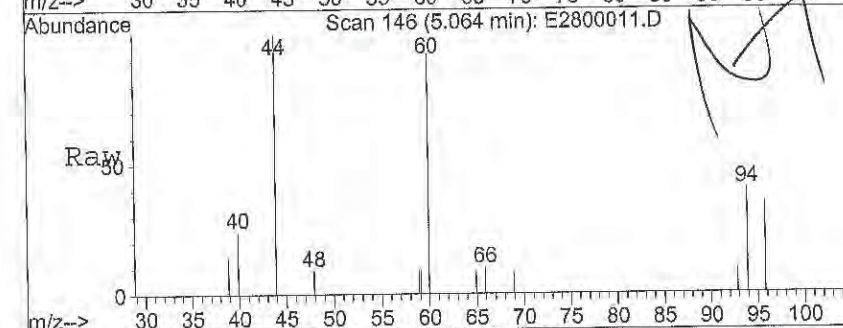
Acq: 28 May 2014 1:50 pm

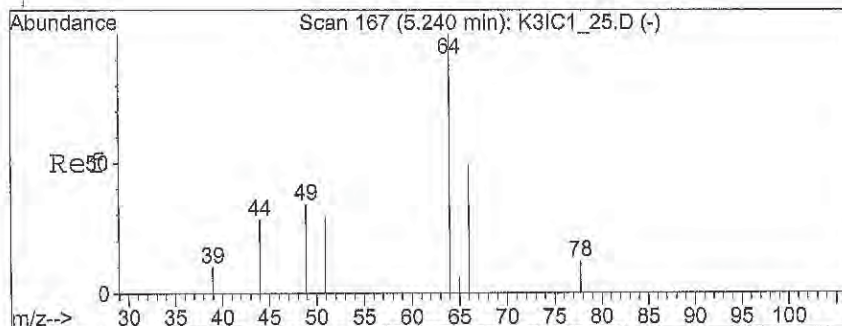
Tgt Ion: 96 Resp: 7305

Ion Ratio Lower Upper

96 100

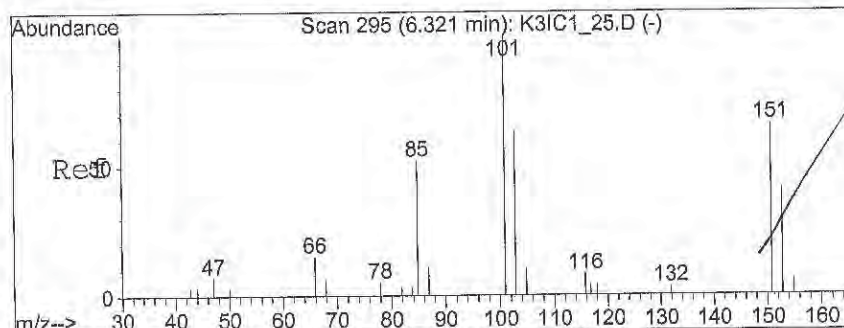
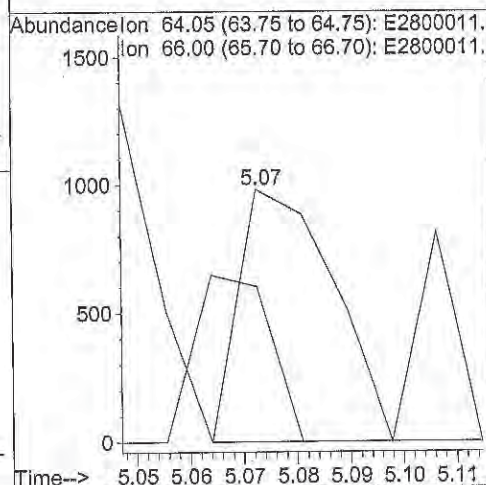
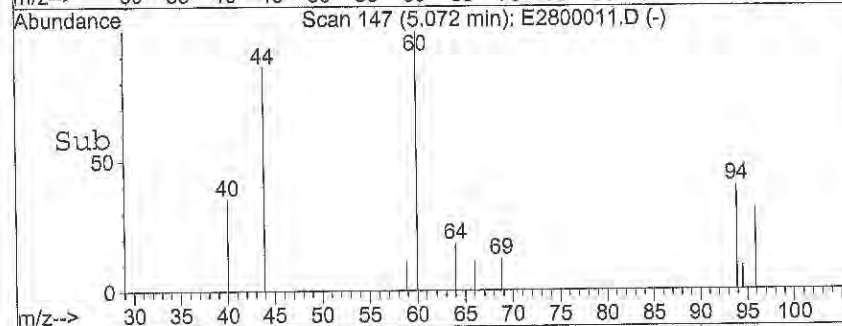
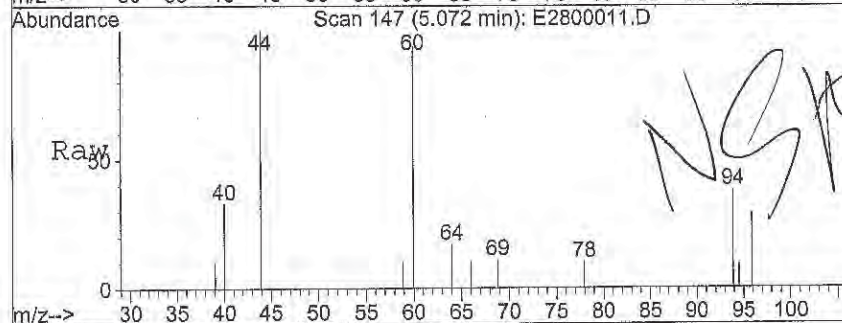
94 273.5 101.0 151.4#





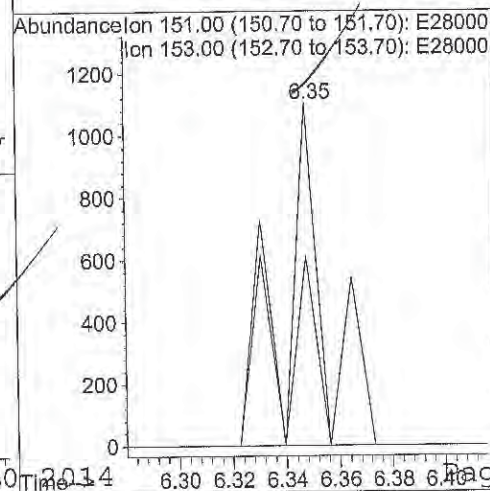
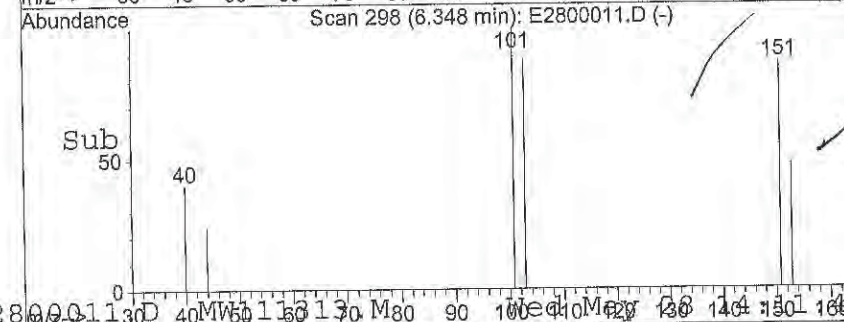
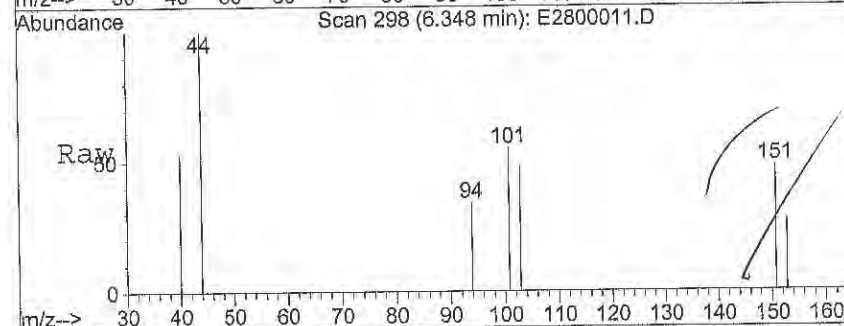
#7
 Chloroethane
 Concen: 1.58 ug/L
 RT: 5.07 min Scan# 147
 Delta R.T. -0.17 min
 Lab File: E2800011.D
 Acq: 28 May 2014 1:50 pm

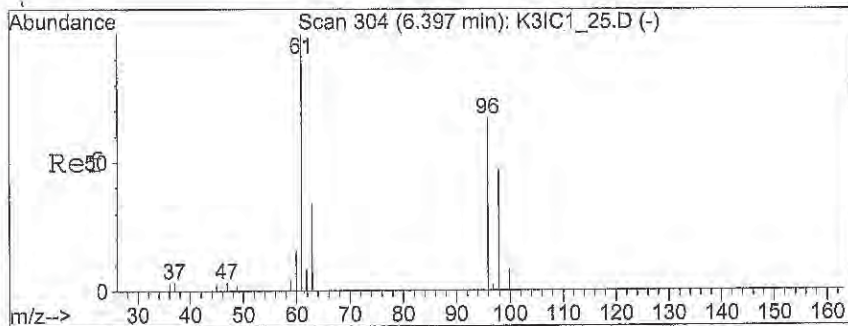
Tgt Ion: 64 Resp: 1204
 Ion Ratio Lower Upper
 64 100
 66 52.6 35.4 53.0



#9
 (F113) 1,1,2-Trichloro-trifluor
 Concen: 0.38 ug/L
 RT: 6.35 min Scan# 298
 Delta R.T. 0.03 min
 Lab File: E2800011.D
 Acq: 28 May 2014 1:50 pm

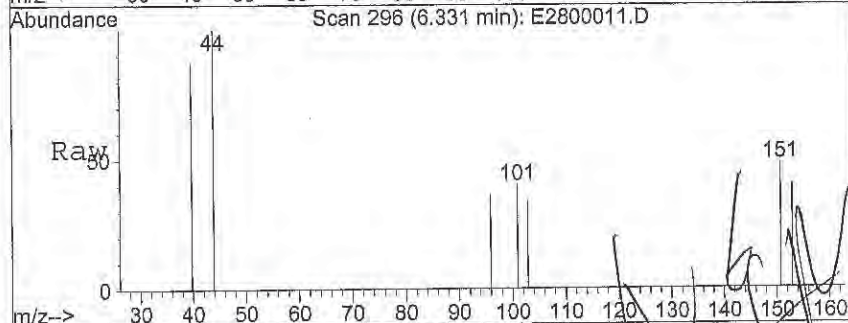
Tgt Ion: 151 Resp: 1201
 Ion Ratio Lower Upper
 151 100
 153 51.5 49.6 74.4



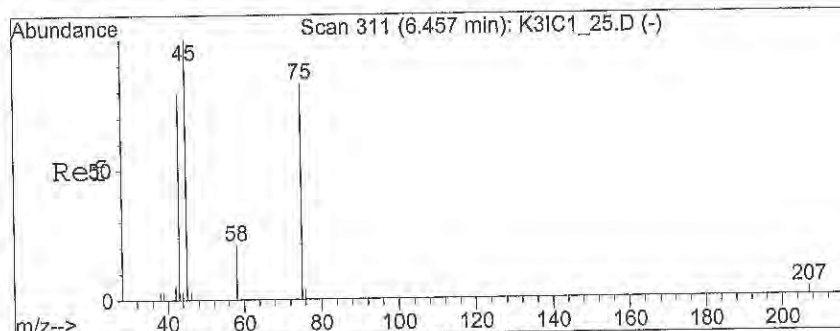
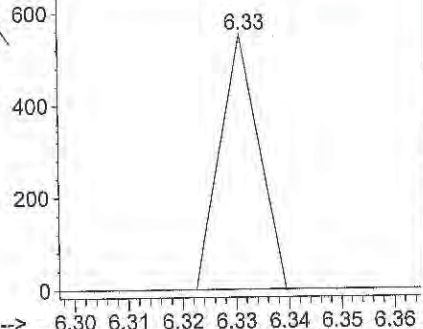
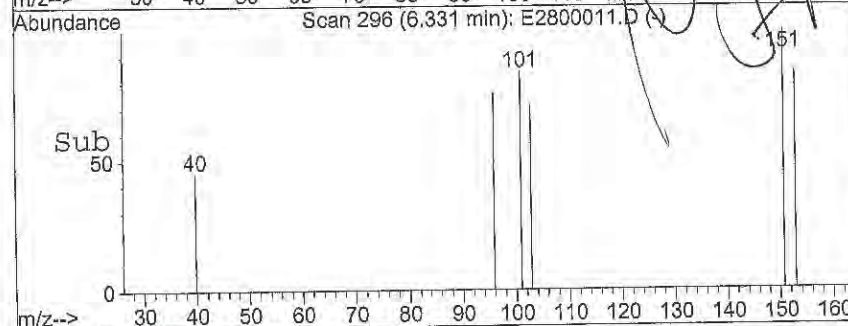


#10
1,1-Dichloroethene
Concen: 0.07 ug/L
RT: 6.33 min Scan# 296
Delta R.T. -0.07 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

Tgt Ion: 96 Resp: 280
Ion Ratio Lower Upper
96 100
61 0.0 130.0 195.0#
98 0.0 56.2 84.4#
63 0.0 41.5 62.3#

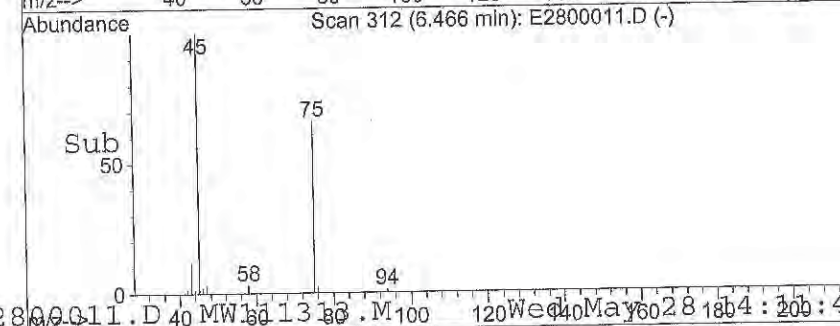
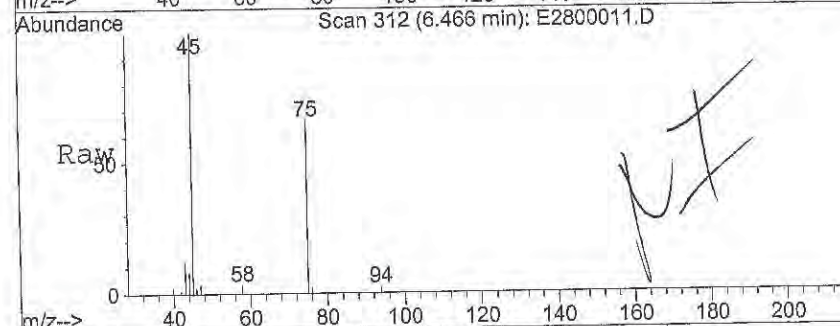


Abundance Ion 95.95 (95.65 to 96.65): E2800011.
Ion 61.05 (60.75 to 61.75): E2800011.
Ion 97.95 (97.65 to 98.65): E2800011.
Ion 63.05 (62.75 to 63.75): E2800011.

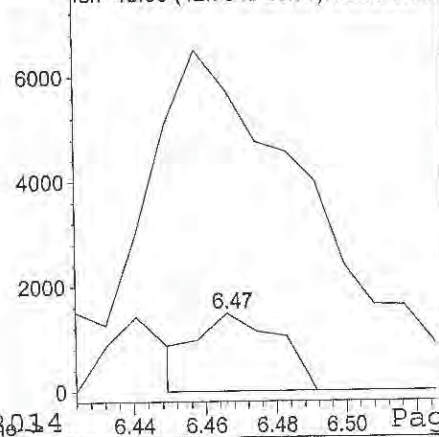


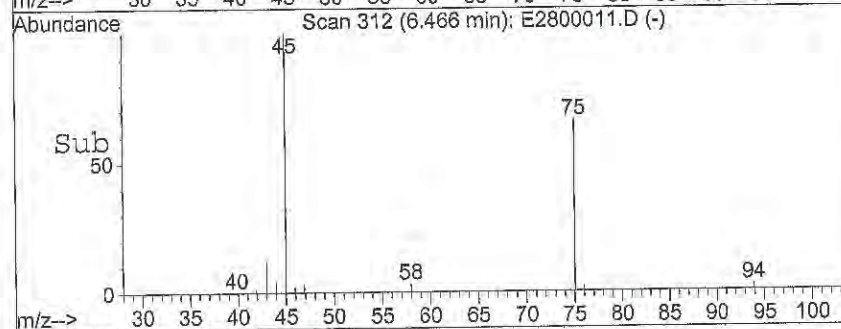
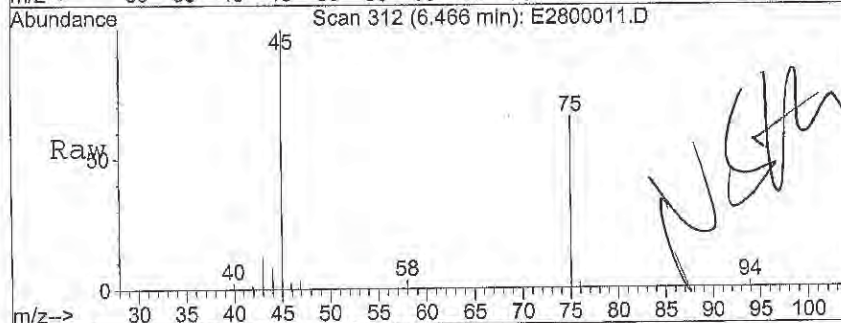
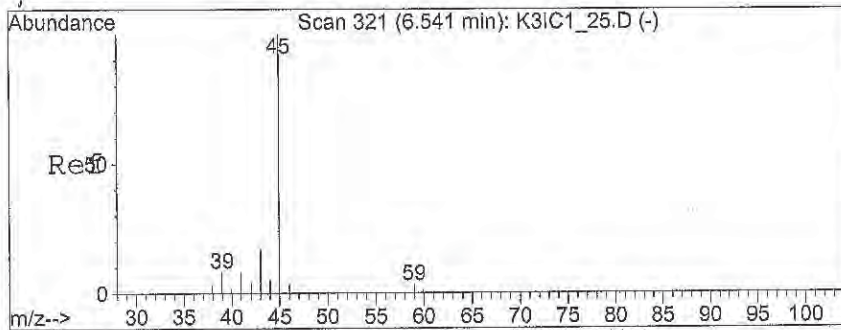
#11
Acetone
Concen: 180.01 ug/L
RT: 6.47 min Scan# 312
Delta R.T. 0.01 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

Tgt Ion: 58 Resp: 2346
Ion Ratio Lower Upper
58 100
43 1004.4 360.9 541.3#



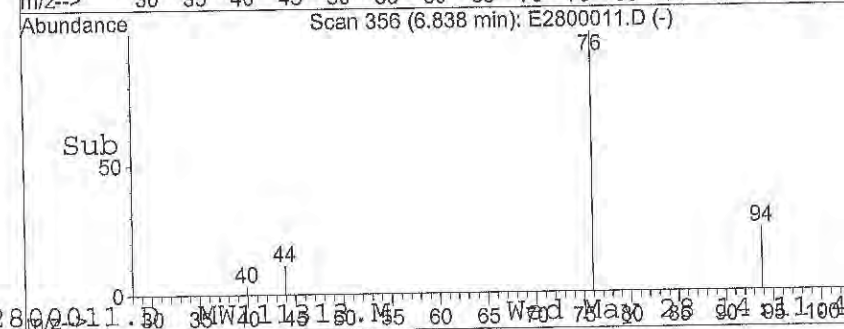
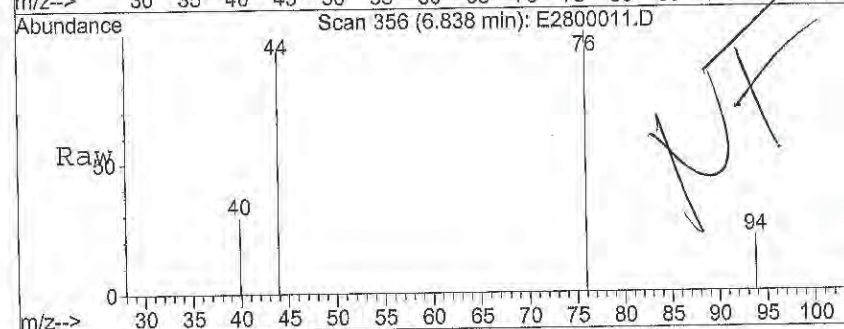
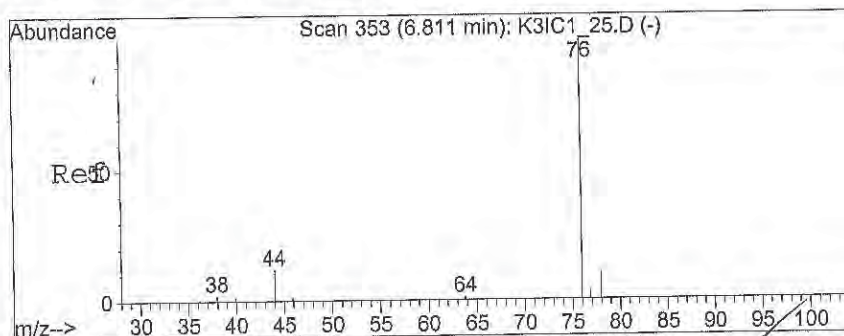
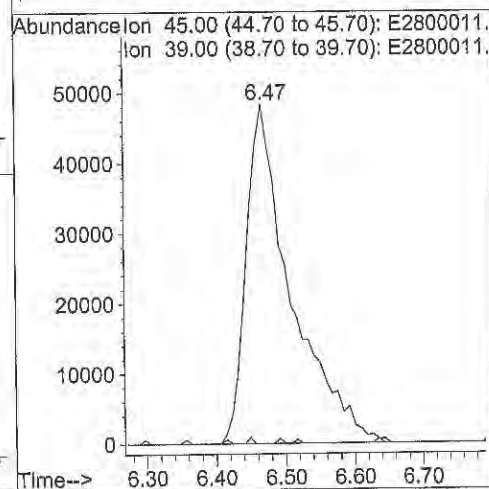
Abundance Ion 58.00 (57.70 to 58.70): E2800011.
Ion 43.00 (42.70 to 43.70): E2800011.





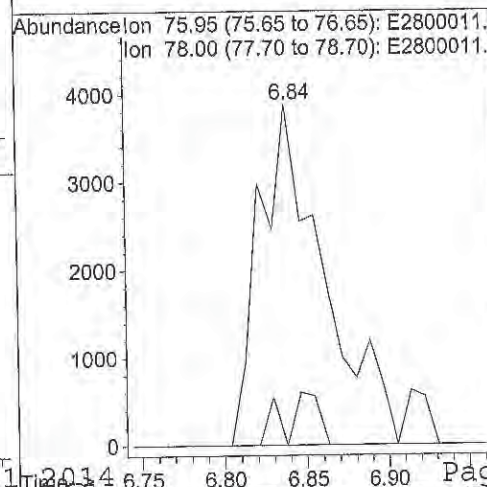
#12
 (IPA) Leak Check Compound
 Concen: 1113.65 ug/L
 RT: 6.47 min Scan# 312
 Delta R.T. -0.07 min
 Lab File: E2800011.D
 Acq: 28 May 2014 1:50 pm

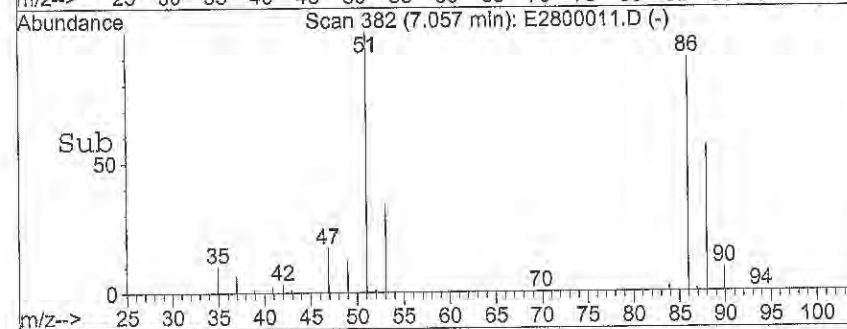
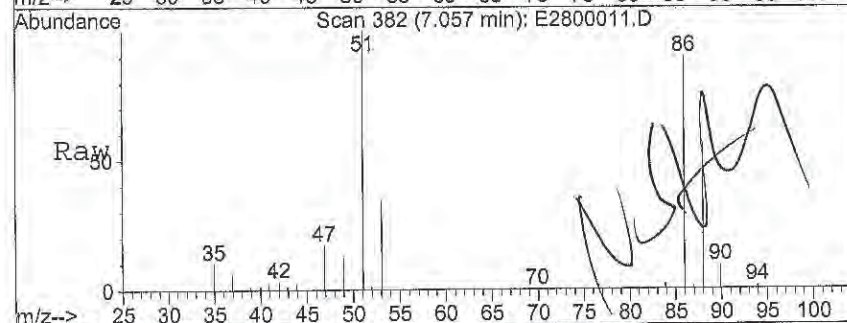
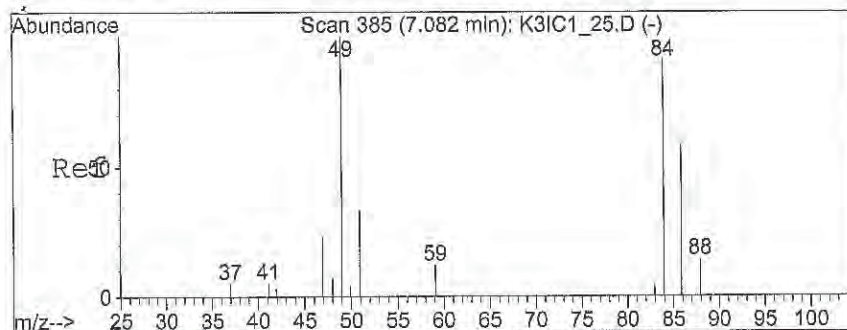
Tgt Ion: 45 Resp: 216673
 Ion Ratio Lower Upper
 45 100
 39 0.2 4.9 7.3#



#13
 Carbon disulfide
 Concen: 0.78 ug/L
 RT: 6.84 min Scan# 356
 Delta R.T. 0.03 min
 Lab File: E2800011.D
 Acq: 28 May 2014 1:50 pm

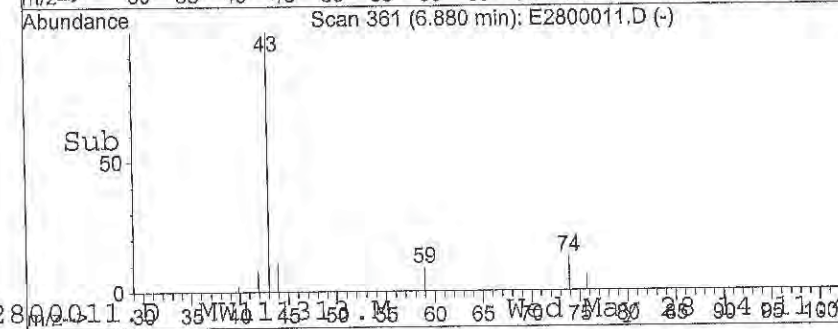
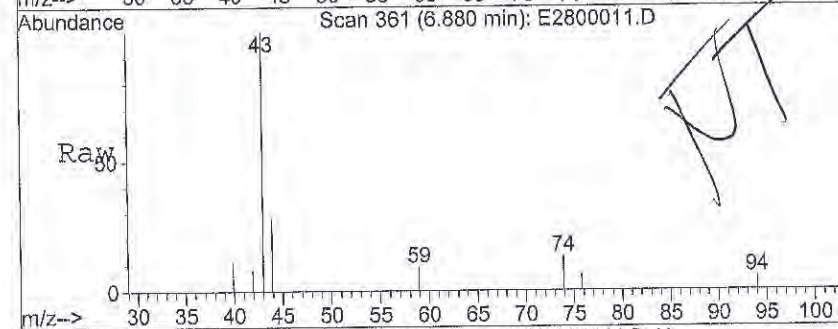
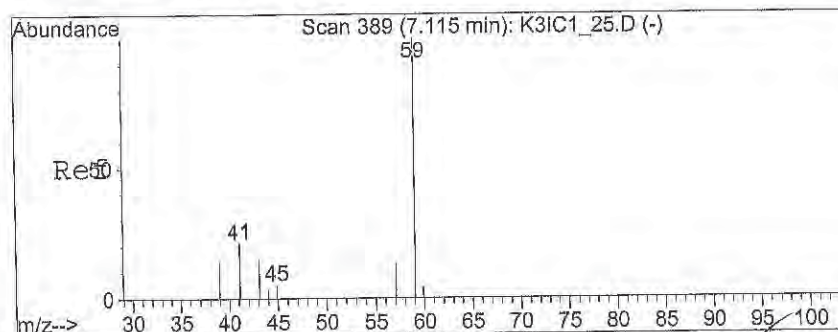
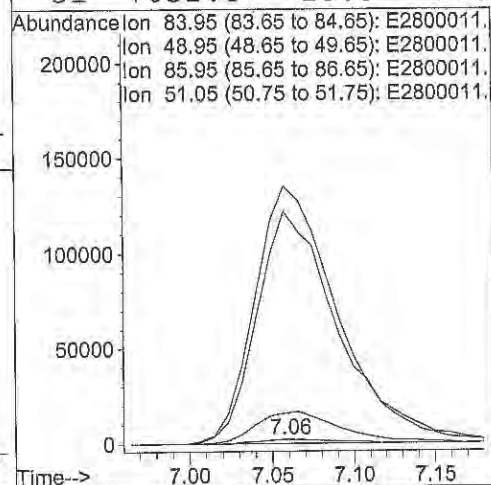
Tgt Ion: 76 Resp: 10529
 Ion Ratio Lower Upper
 76 100
 78 8.2 7.0 10.4





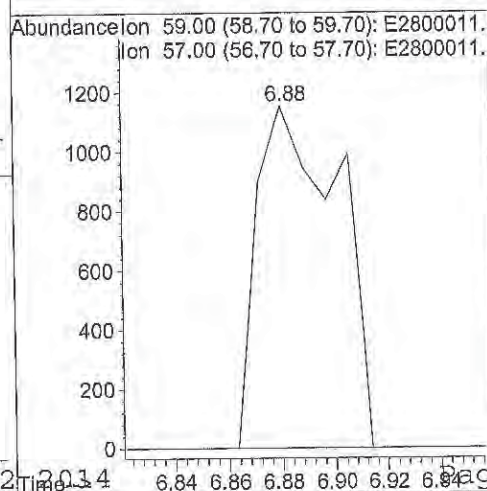
#14
Methylene Chloride
Concen: 1.54 ug/L
RT: 7.06 min Scan# 382
Delta R.T. -0.02 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

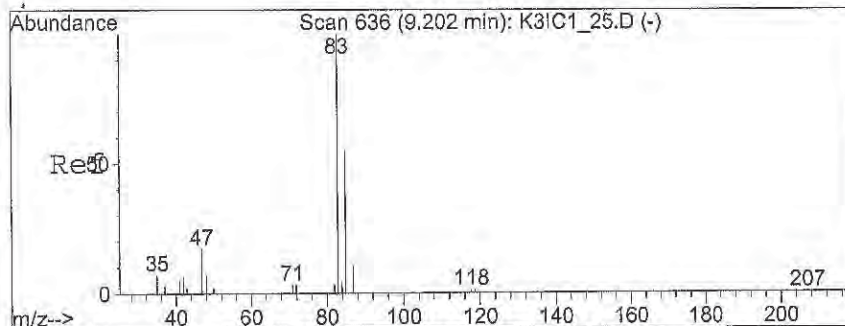
Tgt Ion: 84 Resp: 6857
Ion Ratio Lower Upper
84 100
49 855.7 89.8 134.6#
86 6168.4 51.1 76.7#
51 7032.8 28.5 42.7#



#15
(TBA) tert-Butanol
Concen: 8.86 ug/L
RT: 6.88 min Scan# 361
Delta R.T. -0.24 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

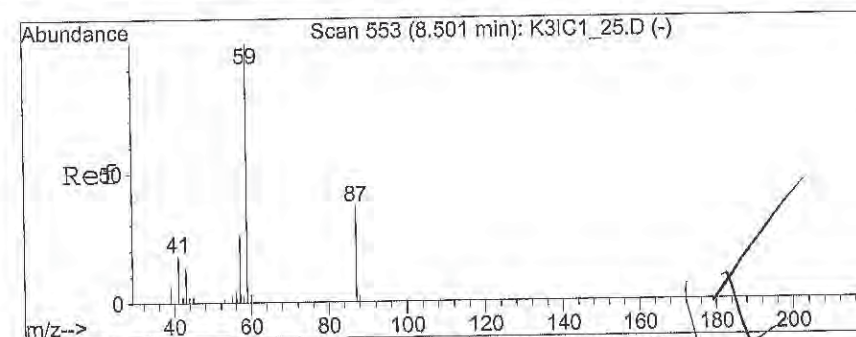
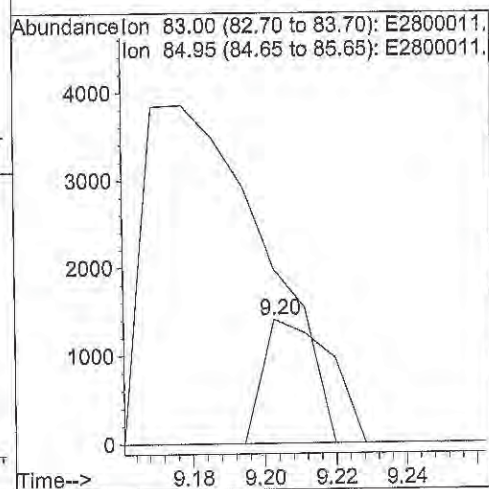
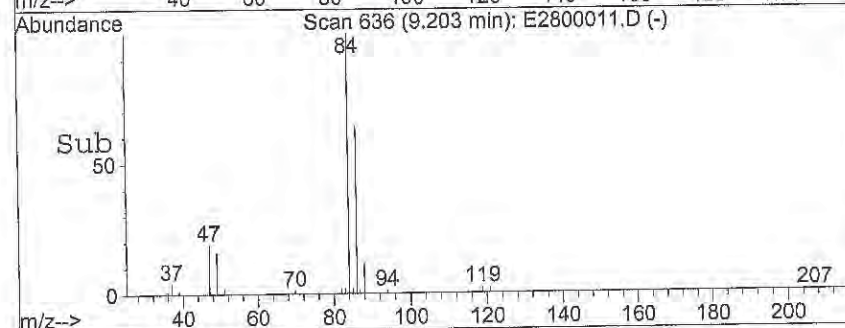
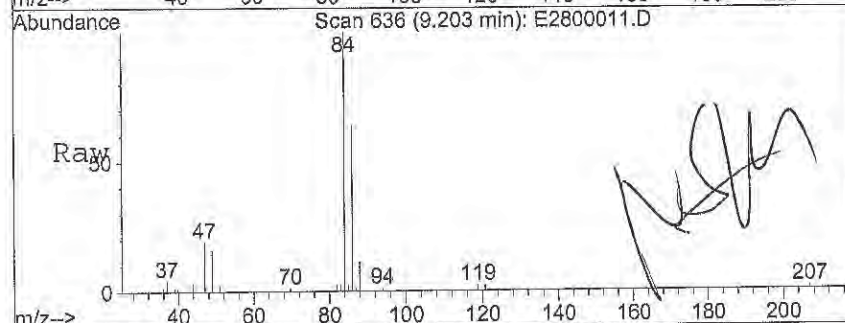
Tgt Ion: 59 Resp: 2446
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#





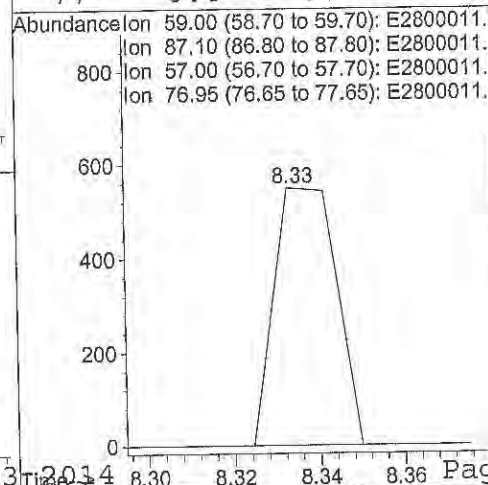
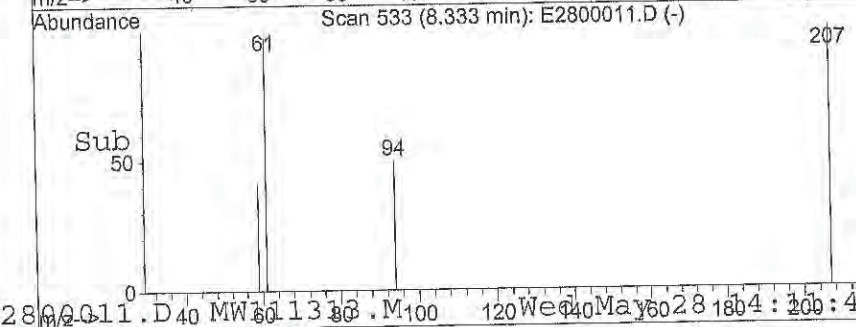
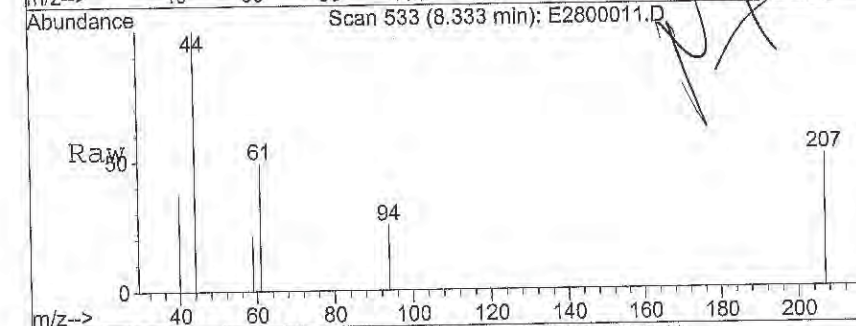
#24
 Chloroform
 Concen: 0.22 ug/L
 RT: 9.20 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: E2800011.D
 Acq: 28 May 2014 1:50 pm

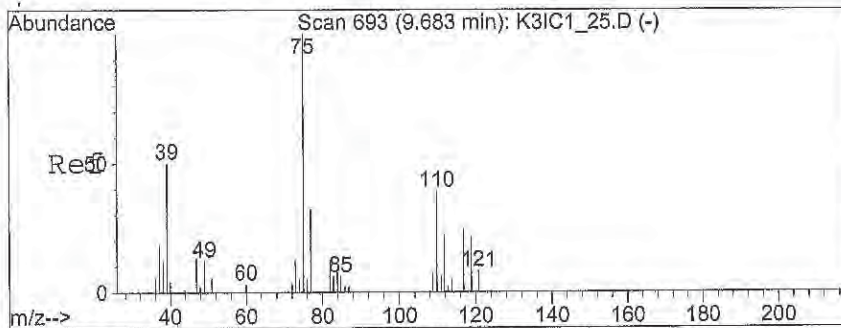
Tgt Ion: 83 Resp: 1832
 Ion Ratio Lower Upper
 83 100
 85 0.0 51.8 77.6#



#25
 (ETBE) 2-ethoxy 2-methyl propan
 Concen: 0.05 ug/L
 RT: 8.33 min Scan# 533
 Delta R.T. -0.17 min
 Lab File: E2800011.D
 Acq: 28 May 2014 1:50 pm

Tgt Ion: 59 Resp: 554
 Ion Ratio Lower Upper
 59 100
 87 0.0 27.8 41.8#
 57 0.0 19.8 29.6#
 77 0.0 0.0 0.0





#29

1,1-Dichloropropene

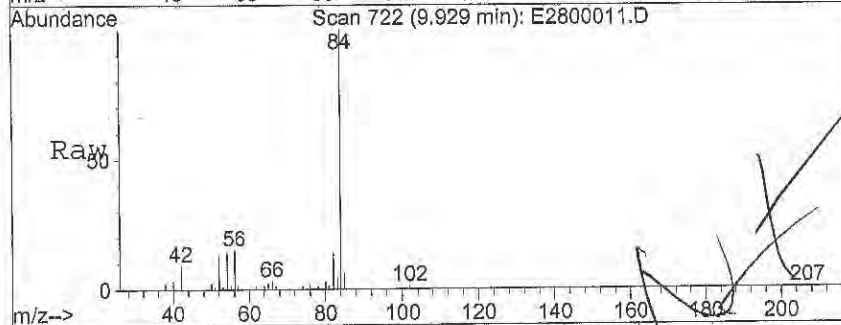
Concen: 0.05 ug/L

RT: 9.93 min Scan# 722

Delta R.T. 0.25 min

Lab File: E2800011.D

Acq: 28 May 2014 1:50 pm



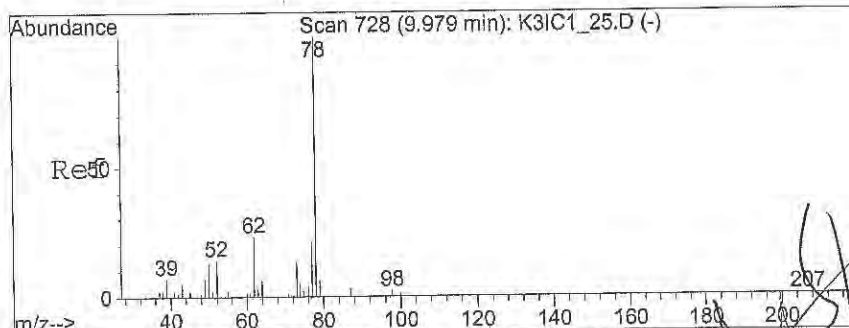
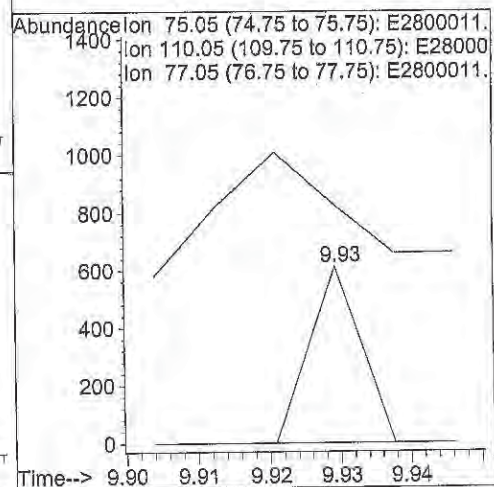
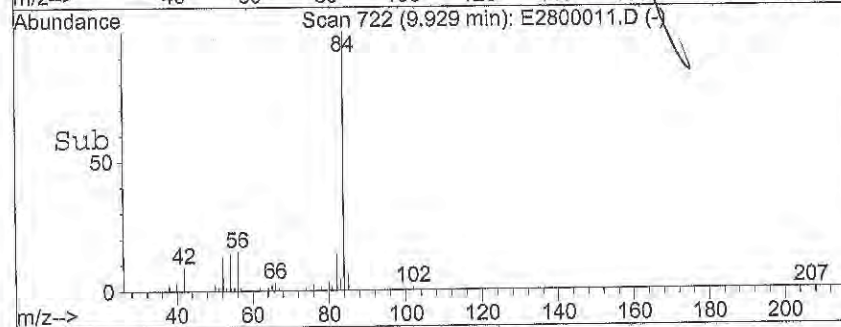
Tgt Ion: 75 Resp: 310

Ion Ratio Lower Upper

75 100

110 0.0 29.0 43.6#

77 635.5 25.0 37.4#



#31

Benzene

Concen: 0.56 ug/L

RT: 9.98 min Scan# 728

Delta R.T. 0.00 min

Lab File: E2800011.D

Acq: 28 May 2014 1:50 pm

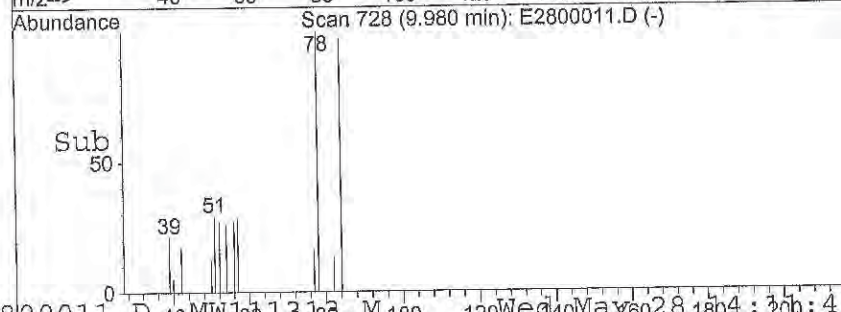
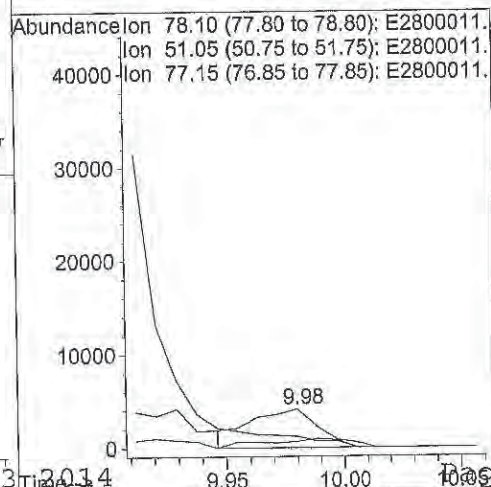
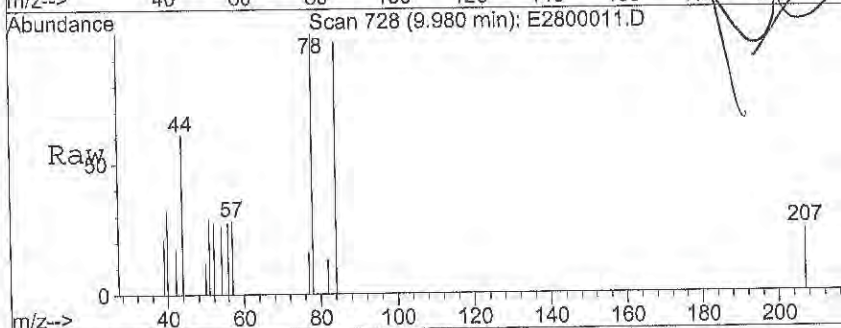
Tgt Ion: 78 Resp: 8467

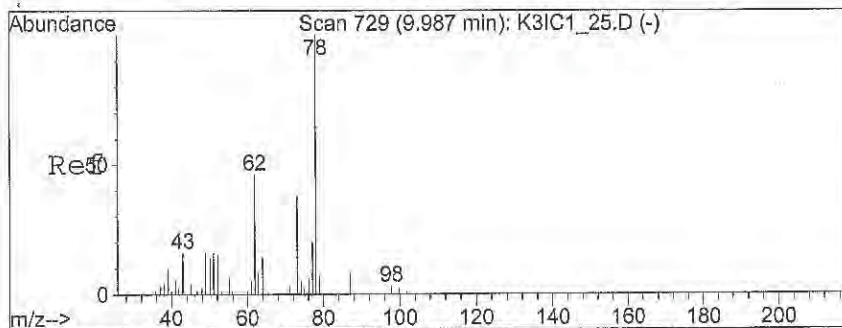
Ion Ratio Lower Upper

78 100

51 0.0 14.2 21.2#

77 24.4 16.6 24.8





#32

1,2-Dichloroethane

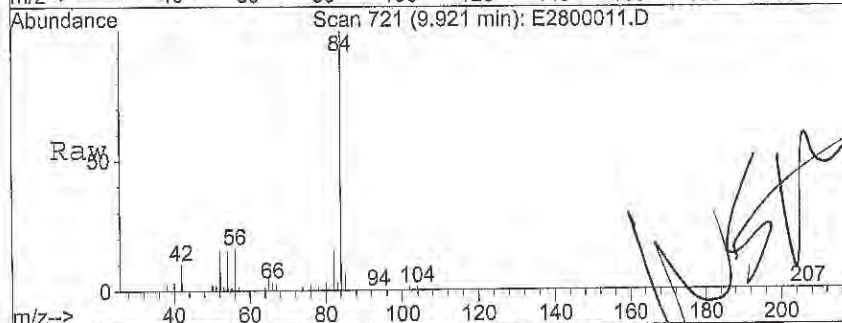
Concen: 1.13 ug/L

RT: 9.92 min Scan# 721

Delta R.T. -0.07 min

Lab File: E2800011.D

Acq: 28 May 2014 1:50 pm



Tgt Ion: 62 Resp: 6108

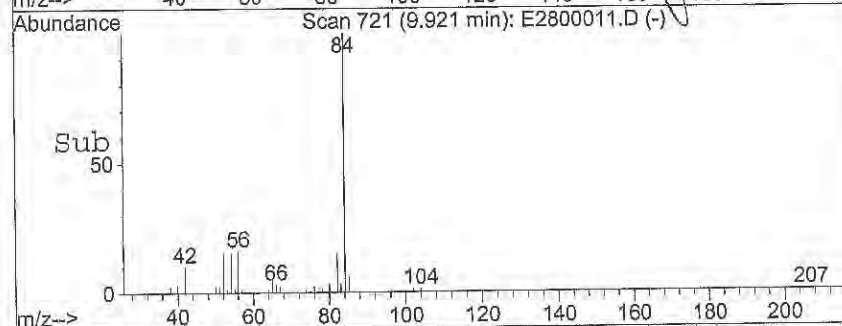
Ion Ratio Lower Upper

62 100

64 210.7 28.0 42.0#

49 0.0 28.5 42.7#

98 0.0 6.2 9.4#



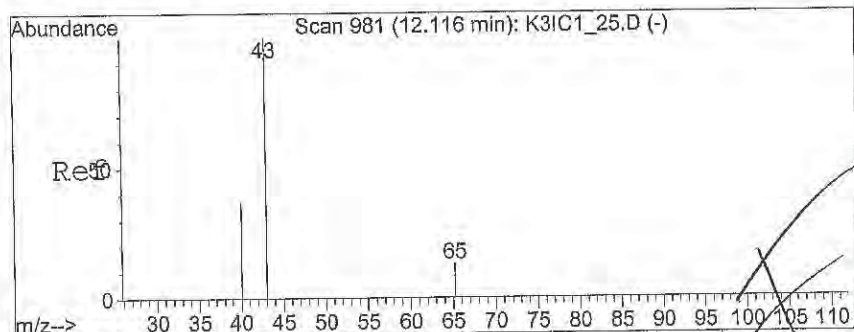
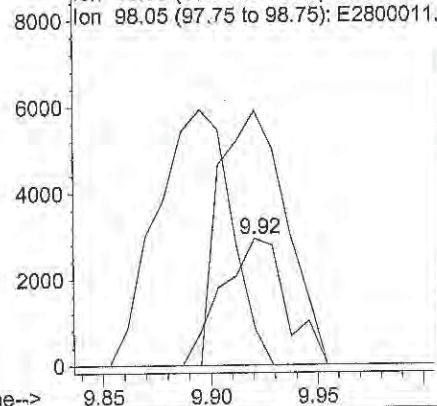
Abundance

Ion 62.05 (61.75 to 62.75): E2800011.

Ion 64.05 (63.75 to 64.75): E2800011.

Ion 49.00 (48.70 to 49.70): E2800011.

Ion 98.05 (97.75 to 98.75): E2800011.



#40

(MIBK) 4-Methyl-2-Pentanone

Concen: 3.09 ug/L

RT: 12.19 min Scan# 990

Delta R.T. 0.08 min

Lab File: E2800011.D

Acq: 28 May 2014 1:50 pm

Tgt Ion: 43 Resp: 7870

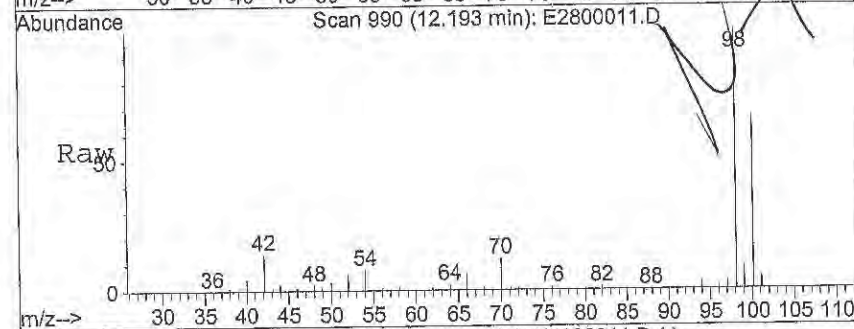
Ion Ratio Lower Upper

43 100

58 134.7 0.0 0.0#

85 0.0 0.0 0.0

100 12067.7 0.0 0.0#



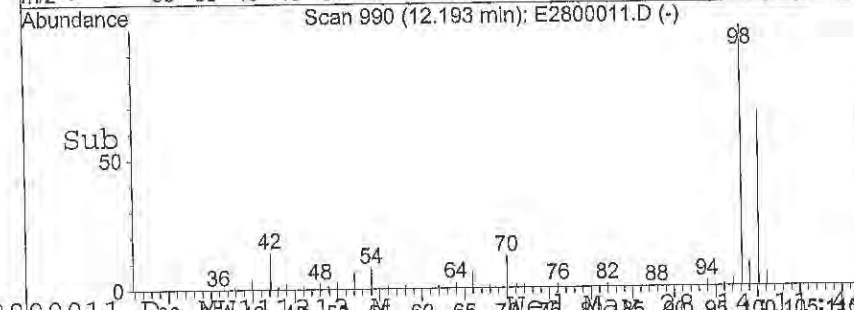
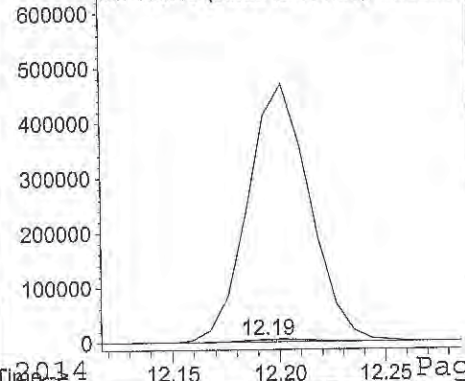
Abundance

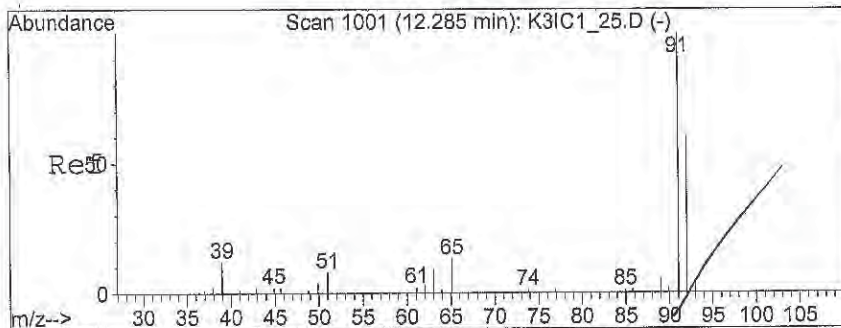
Ion 43.00 (42.70 to 43.70): E2800011.

Ion 58.10 (57.80 to 58.80): E2800011.

Ion 85.05 (84.75 to 85.75): E2800011.

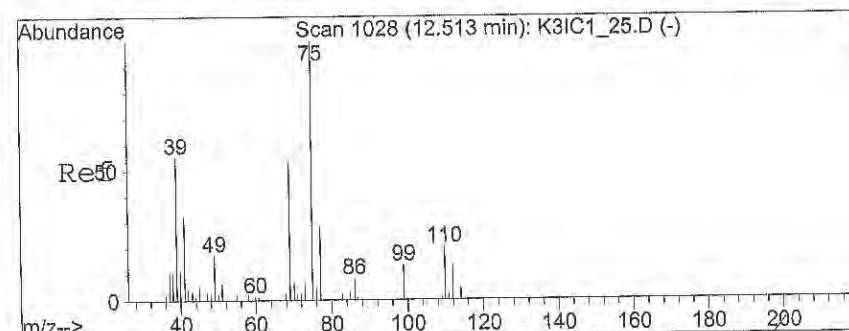
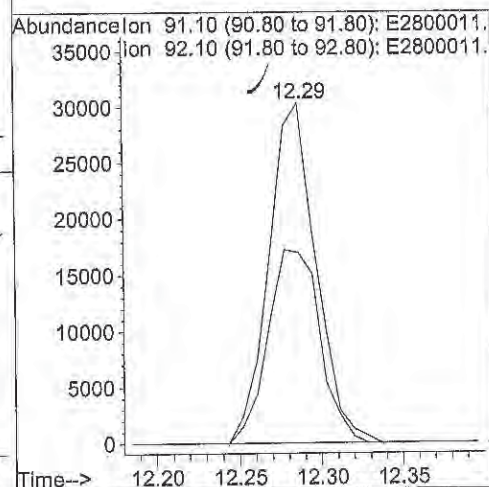
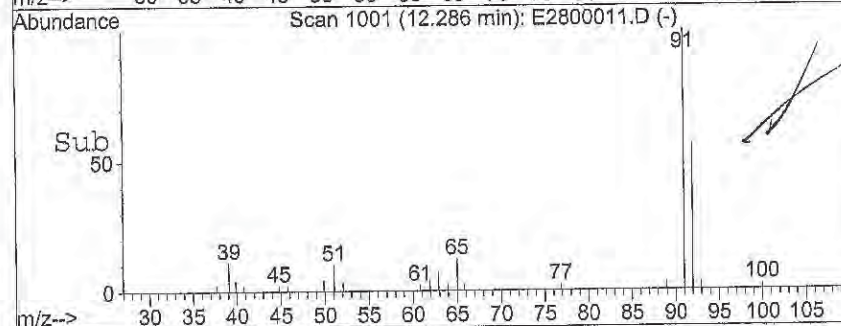
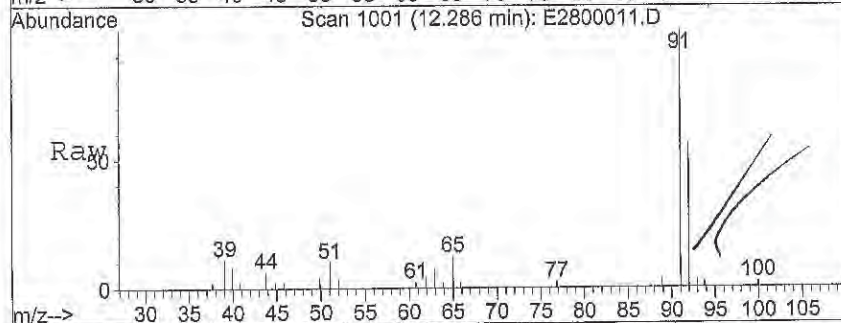
Ion 100.15 (99.85 to 100.85): E2800011.





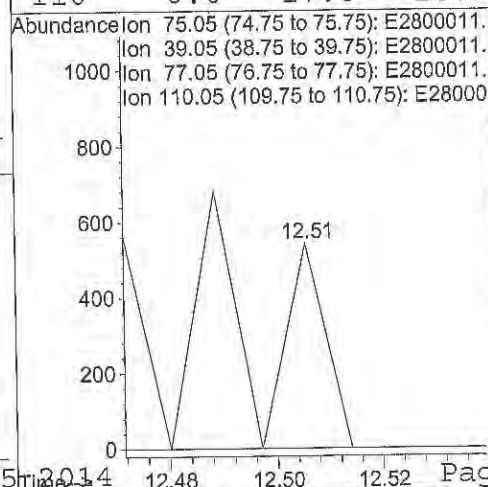
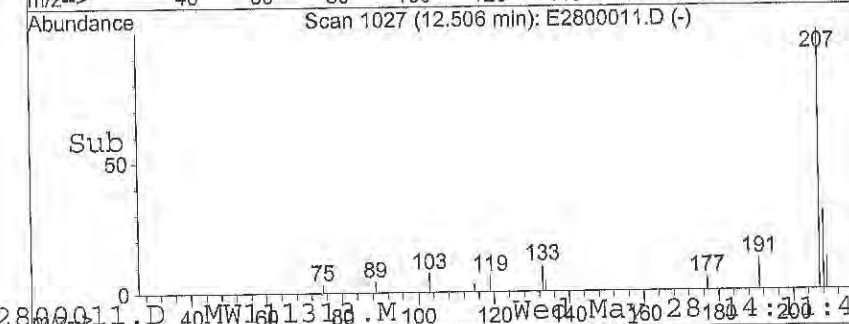
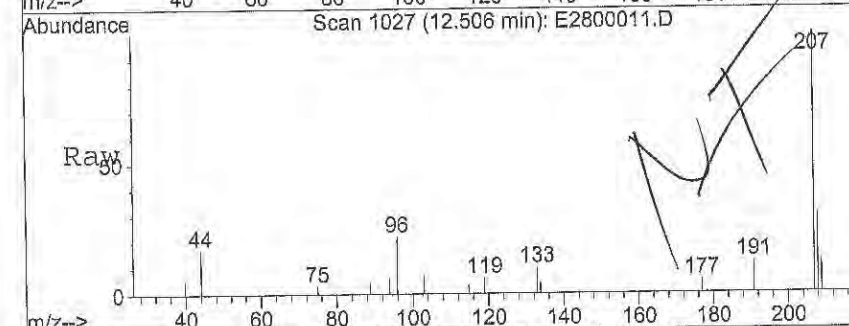
#41
Toluene
Concen: 3.49 ug/L
RT: 12.29 min Scan# 1001
Delta R.T. 0.00 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

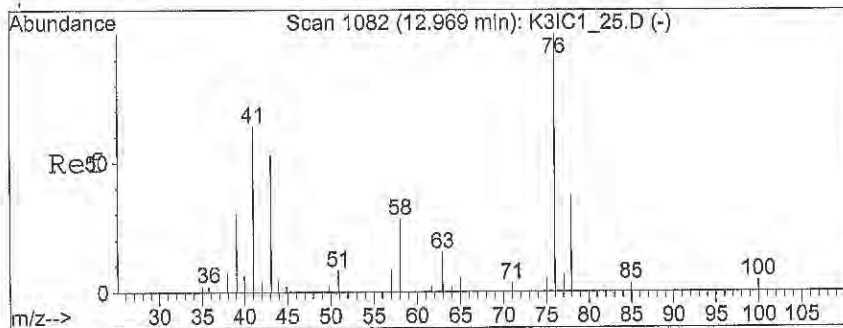
Tgt Ion: 91 Resp: 60653
Ion Ratio Lower Upper
91 100
92 62.7 47.4 71.0



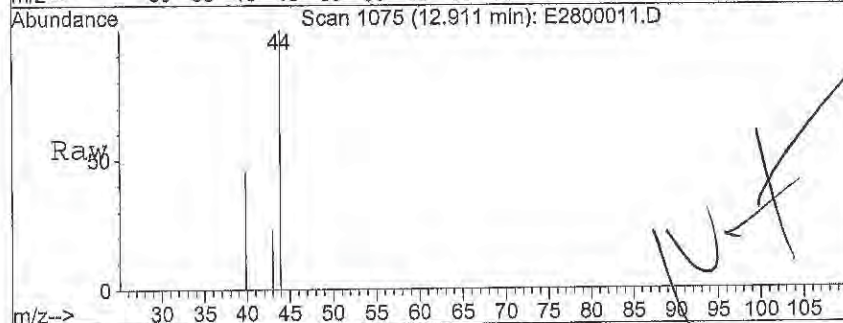
#42
trans-1,3-Dichloropropene
Concen: 0.05 ug/L
RT: 12.51 min Scan# 1027
Delta R.T. -0.01 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

Tgt Ion: 75 Resp: 275
Ion Ratio Lower Upper
75 100
39 125.8 53.6 80.4#
77 0.0 25.4 38.2#
110 0.0 17.6 26.4#

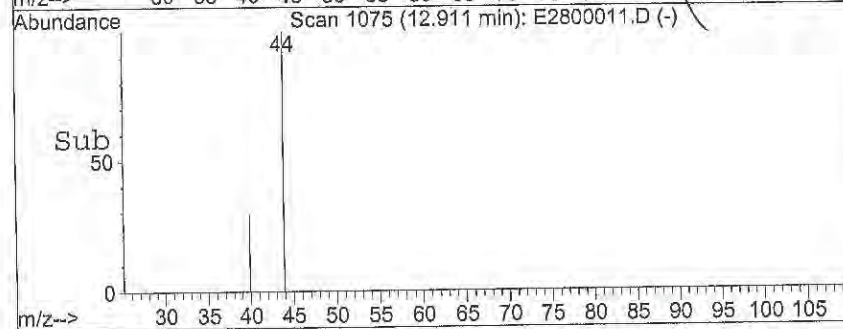




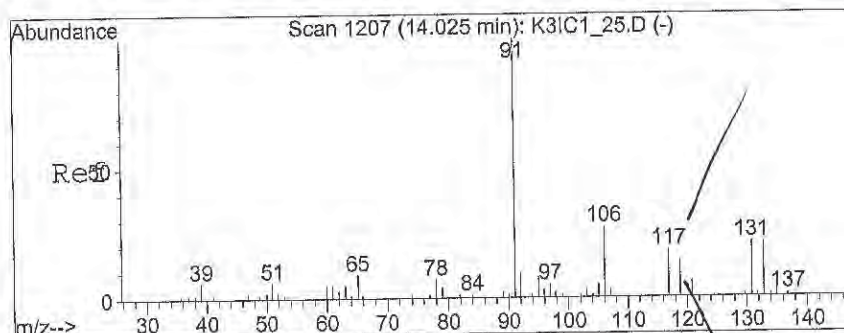
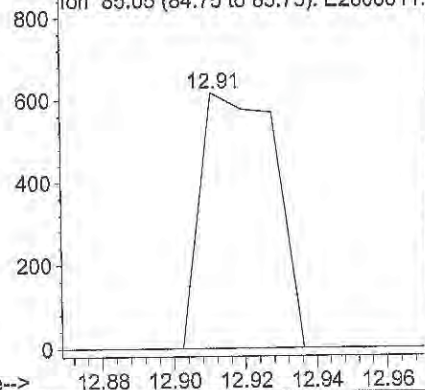
#46
2-Hexanone
Concen: 0.32 ug/L
RT: 12.91 min Scan# 1075
Delta R.T. -0.06 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm



Tgt Ion: 43 Resp: 894
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#

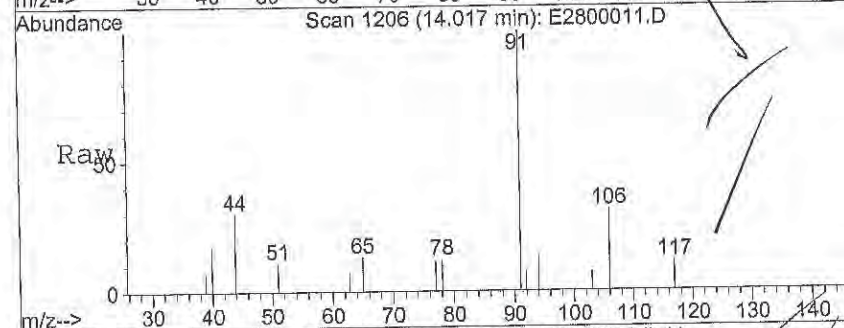


Abundance Ion 43.00 (42.70 to 43.70): E2800011.
Ion 58.10 (57.80 to 58.80): E2800011.
Ion 100.15 (99.85 to 100.85): E2800011.
Ion 85.05 (84.75 to 85.75): E2800011.

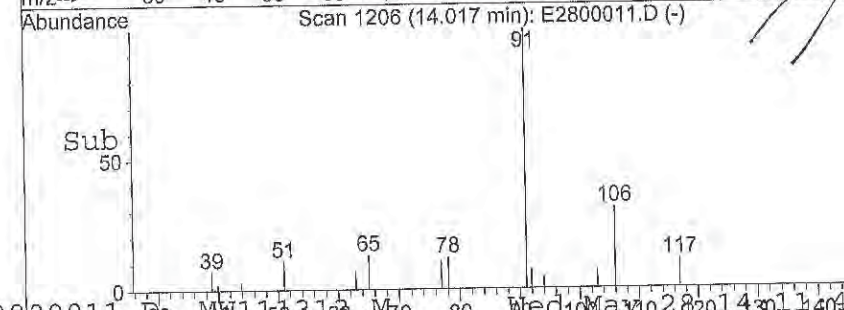
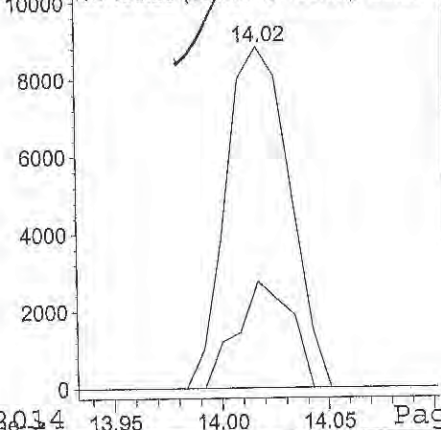


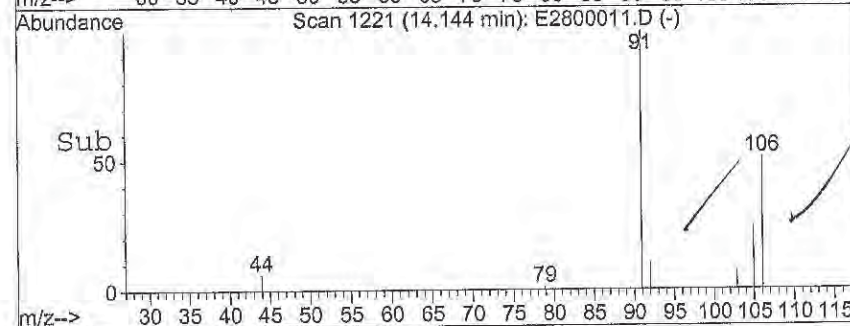
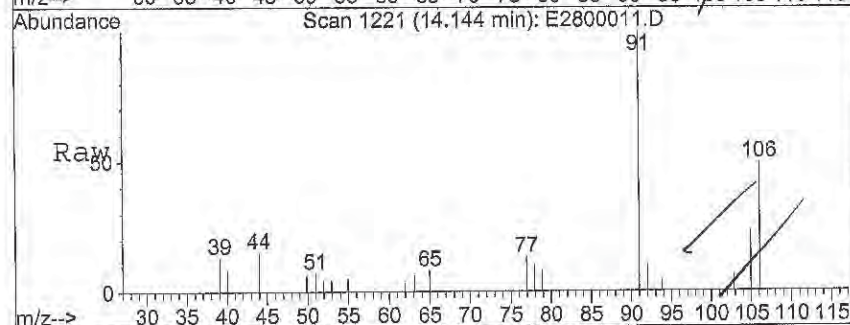
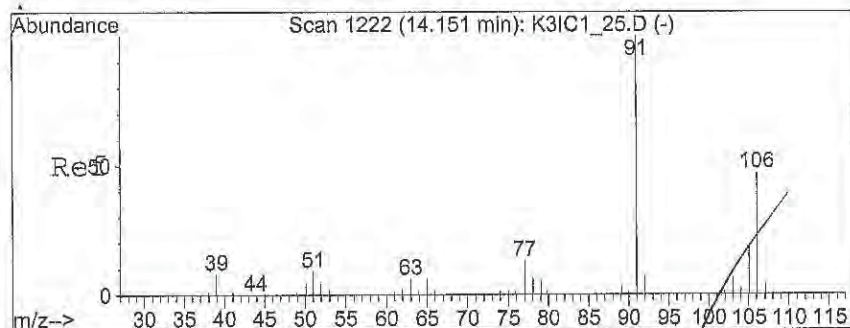
#51
Ethylbenzene
Concen: 0.93 ug/L
RT: 14.02 min Scan# 1206
Delta R.T. -0.01 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

Tgt Ion: 91 Resp: 18307
Ion Ratio Lower Upper
91 100
106 26.6 23.5 35.3



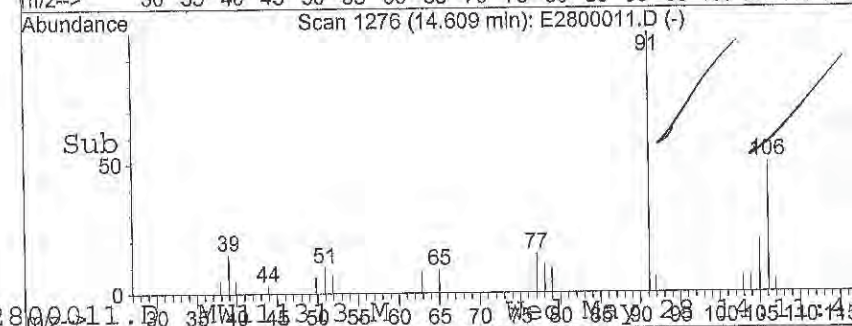
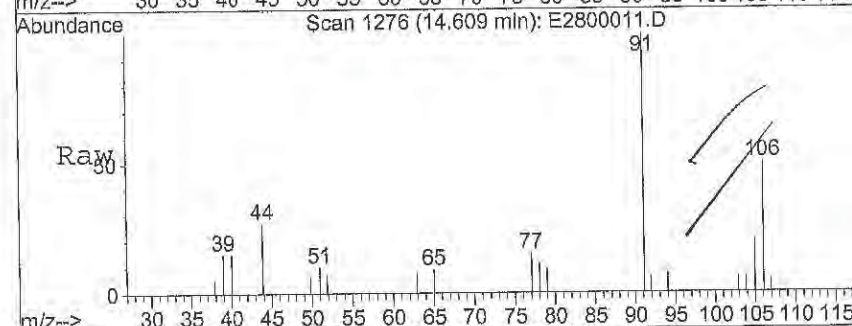
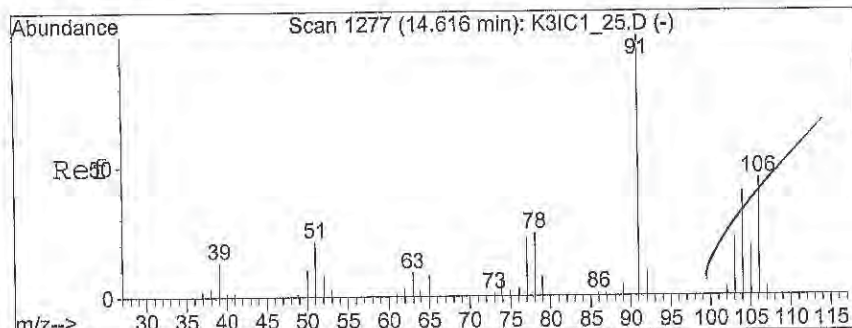
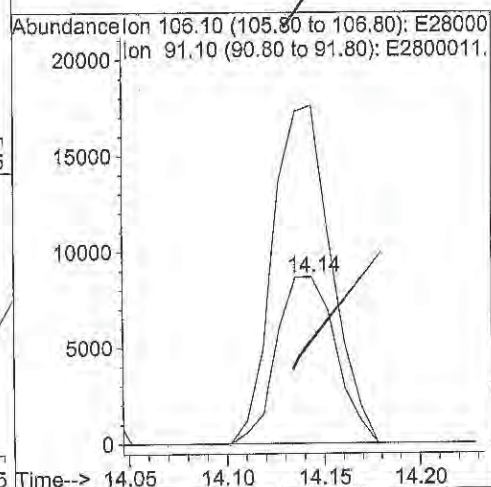
Abundance Ion 91.10 (90.80 to 91.80): E2800011.
Ion 106.20 (105.90 to 106.90): E2800011.





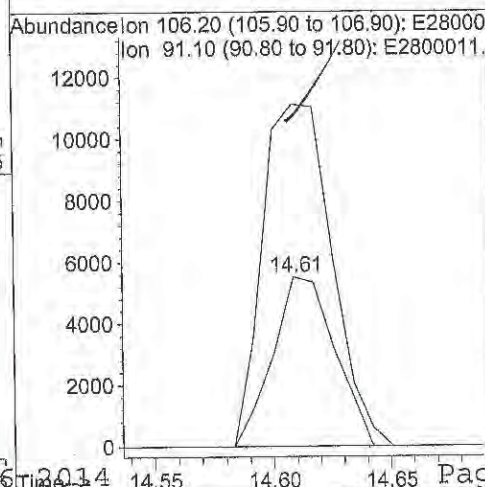
#52
m,p-Xylenes
Concen: 2.62 ug/L
RT: 14.14 min Scan# 1221
Delta R.T. -0.01 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

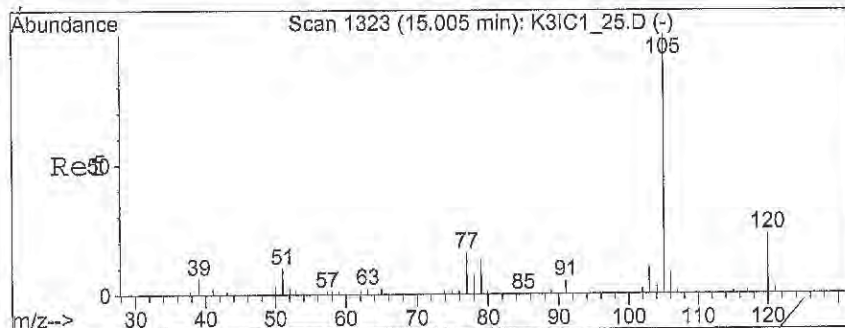
Tgt Ion:106 Resp: 18414
Ion Ratio Lower Upper
106 100
91 200.0 177.1 265.7



#53
o-Xylene
Concen: 1.45 ug/L
RT: 14.61 min Scan# 1276
Delta R.T. -0.01 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

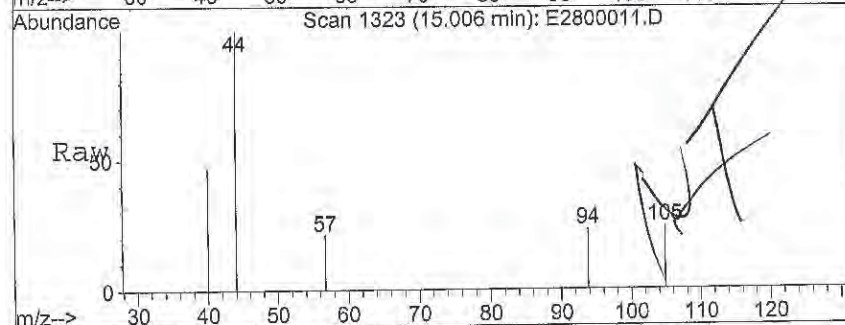
Tgt Ion:106 Resp: 10065
Ion Ratio Lower Upper
106 100
91 225.1 179.0 268.6





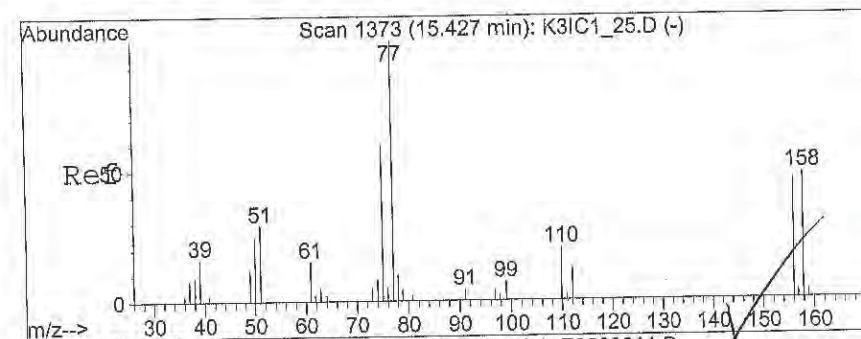
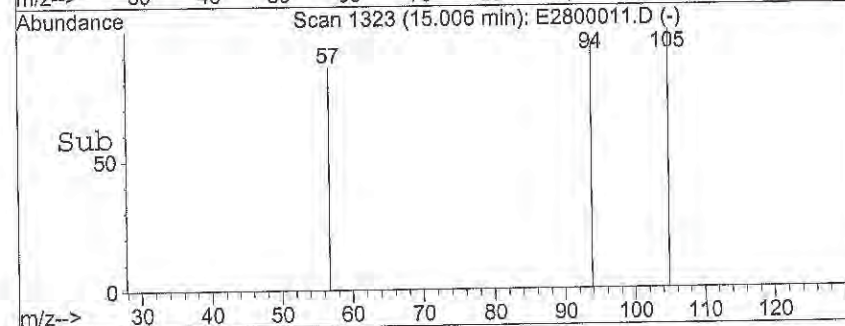
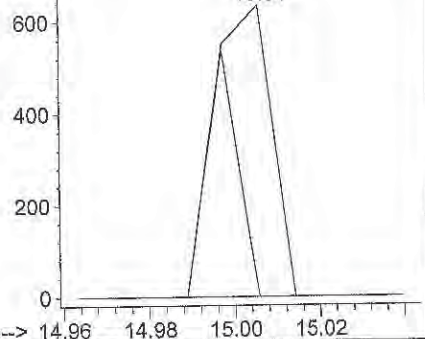
#56
Isopropylbenzene
Concen: 0.03 ug/L
RT: 15.01 min Scan# 1323
Delta R.T. 0.00 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

Tgt Ion: 105 Resp: 602
Ion Ratio Lower Upper
105 100
120 0.0 19.3 28.9#
77 45.0 13.1 19.7#



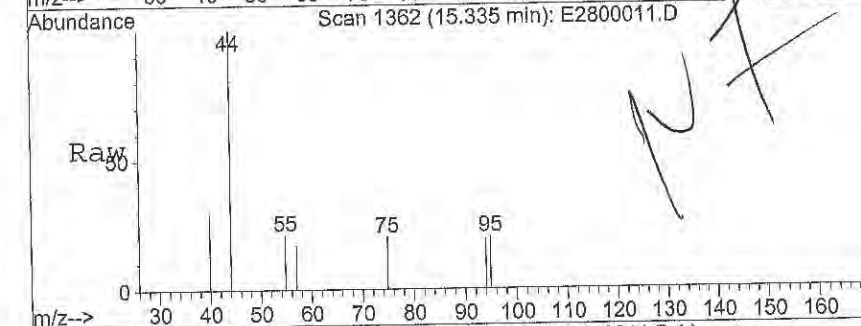
Abundance Ion 105.10 (104.80 to 105.80): E28000
Ion 120.15 (119.85 to 120.85): E28000
Ion 77.05 (76.75 to 77.75): E2800011.

15.01



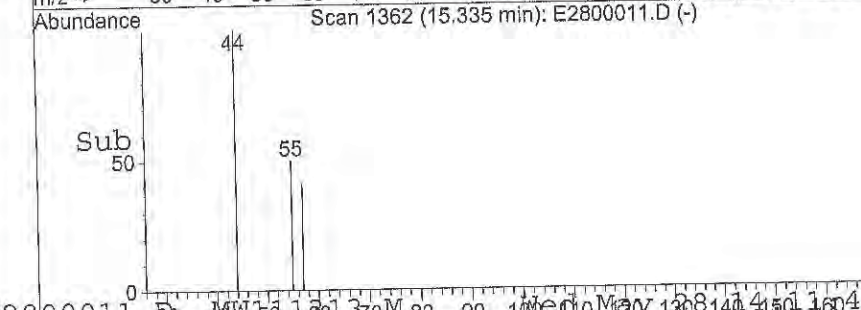
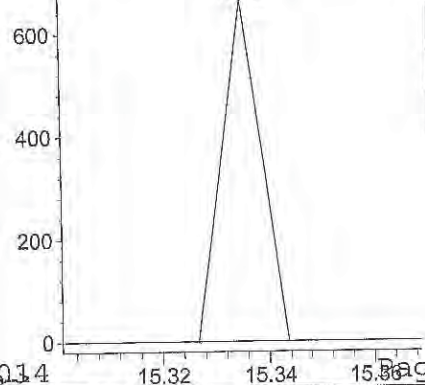
#57
1,2,3-Trichloropropane
Concen: 0.06 ug/L
RT: 15.34 min Scan# 1362
Delta R.T. -0.09 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

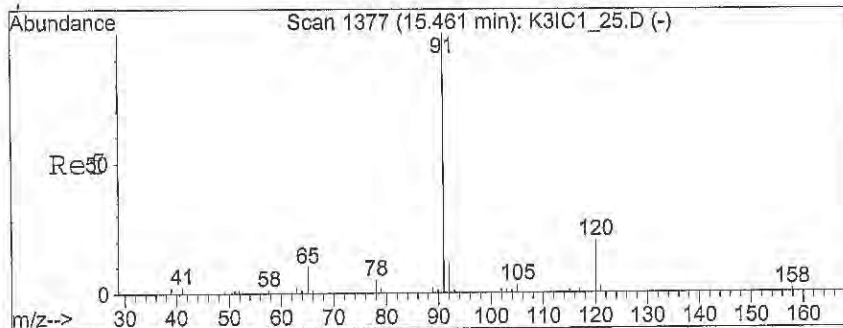
Tgt Ion: 75 Resp: 337
Ion Ratio Lower Upper
75 100
77 0.0 31.2 46.8#



Abundance Ion 75.05 (74.75 to 75.75): E2800011.
Ion 77.00 (76.70 to 77.70): E2800011.

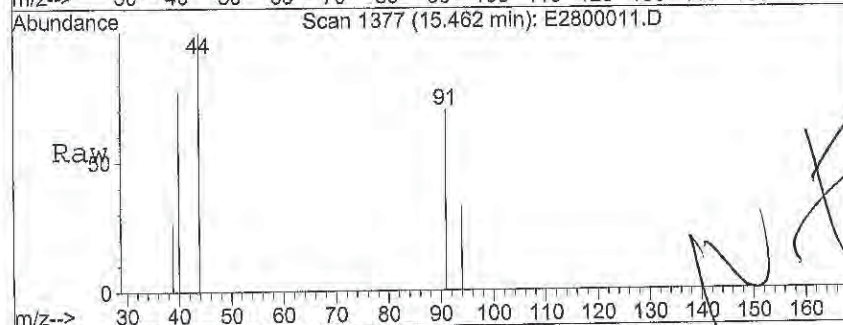
15.34



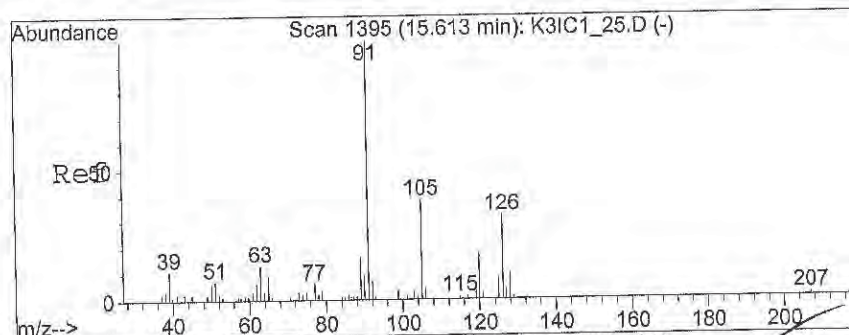
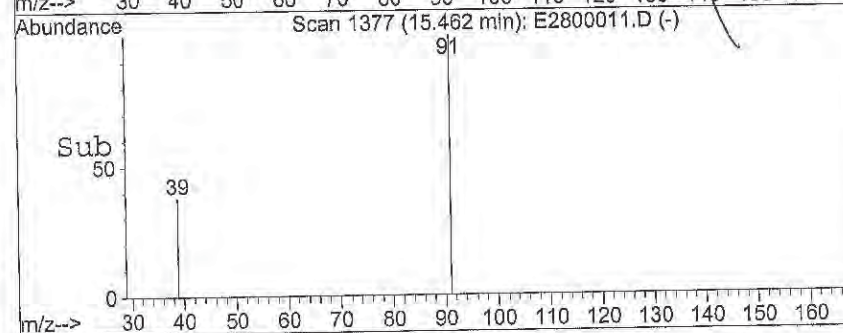
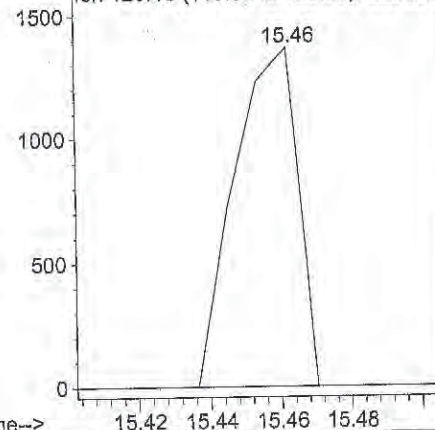


#62
n-Propylbenzene
Concen: 0.06 ug/L
RT: 15.46 min Scan# 1377
Delta R.T. 0.00 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

Tgt Ion: 91 Resp: 1688
Ion Ratio Lower Upper
91 100
120 0.0 16.1 24.1#

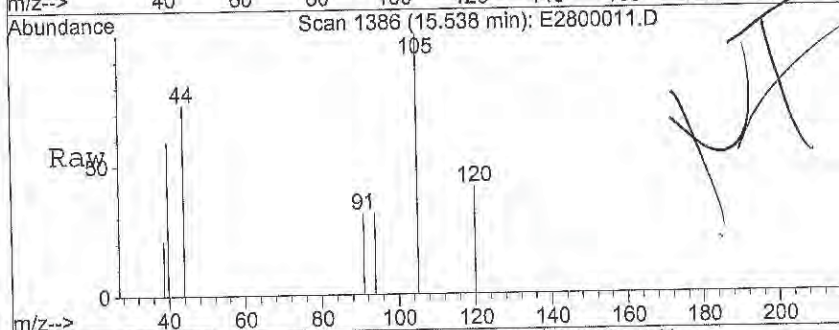


Abundance Ion 91.10 (90.80 to 91.80): E2800011.
Ion 120.15 (119.85 to 120.85): E280000

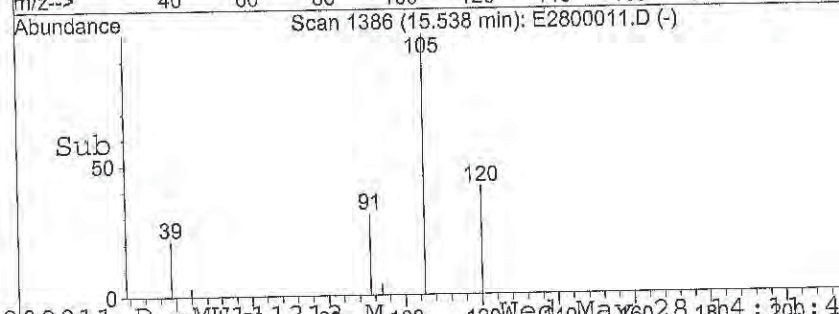
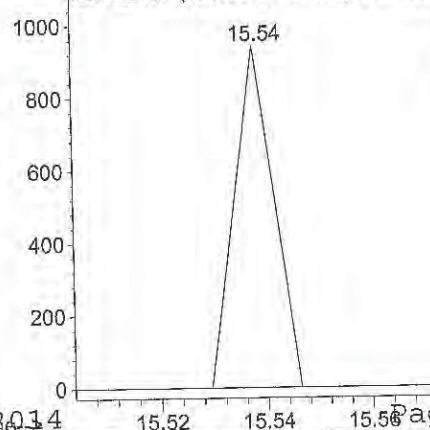


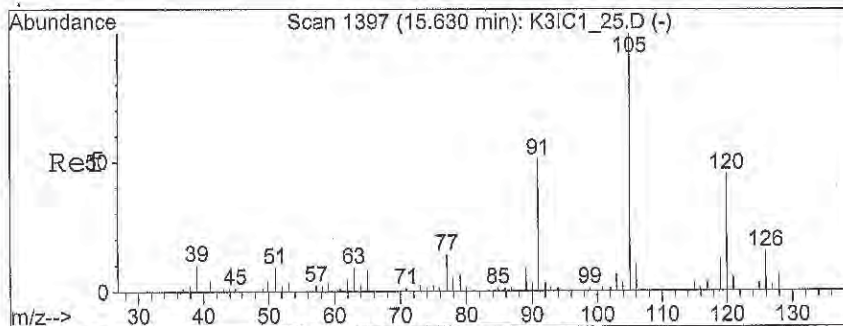
#63
2-Chlorotoluene
Concen: 0.03 ug/L
RT: 15.54 min Scan# 1386
Delta R.T. -0.07 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

Tgt Ion: 91 Resp: 477
Ion Ratio Lower Upper
91 100
126 0.0 24.0 36.0#



Abundance Ion 91.10 (90.80 to 91.80): E2800011.
Ion 126.10 (125.80 to 126.80): E280000





#64

1,3,5-Trimethylbenzene

Concen: 0.08 ug/L

RT: 15.62 min Scan# 1396

Delta R.T. -0.01 min

Lab File: E2800011.D

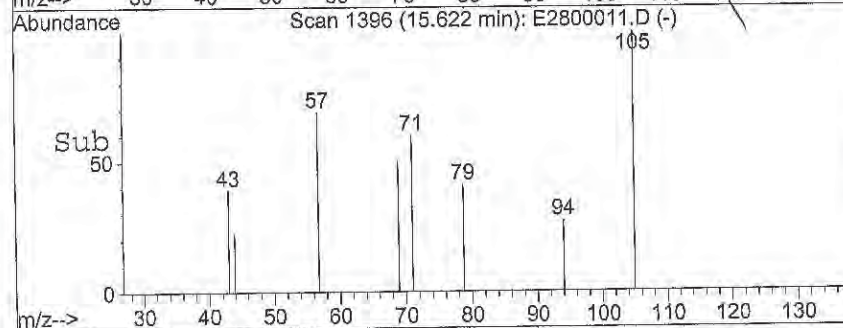
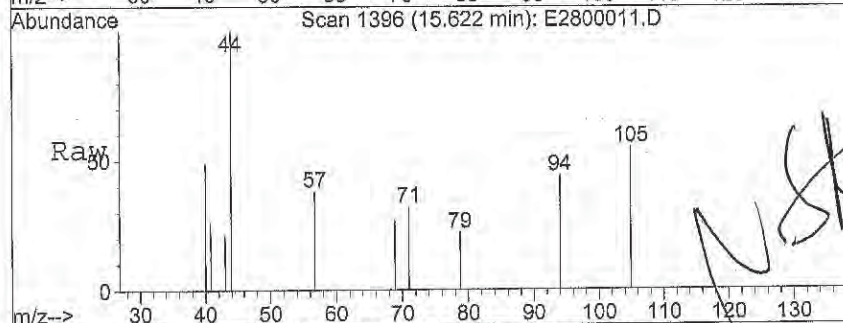
Acq: 28 May 2014 1:50 pm

Tgt Ion: 105 Resp: 1411

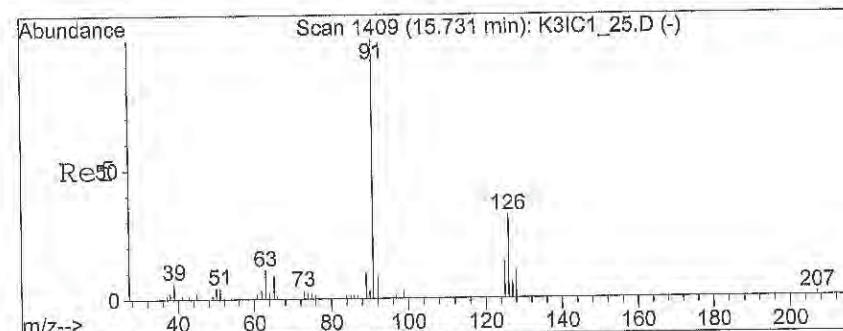
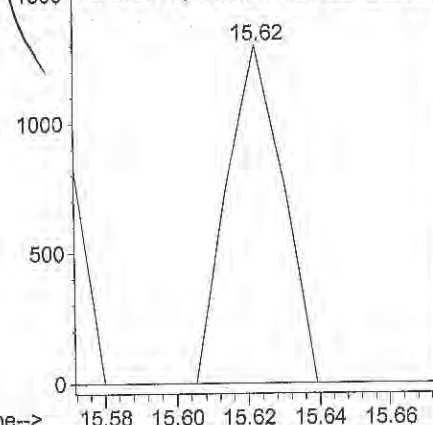
Ion Ratio Lower Upper

105 100

120 0.0 36.4 54.6#



Abundance Ion 105.10 (104.80 to 105.80): E280000
Ion 120.15 (119.85 to 120.85): E280000



#65

4-Chlorotoluene

Concen: 0.03 ug/L

RT: 15.54 min Scan# 1386

Delta R.T. -0.19 min

Lab File: E2800011.D

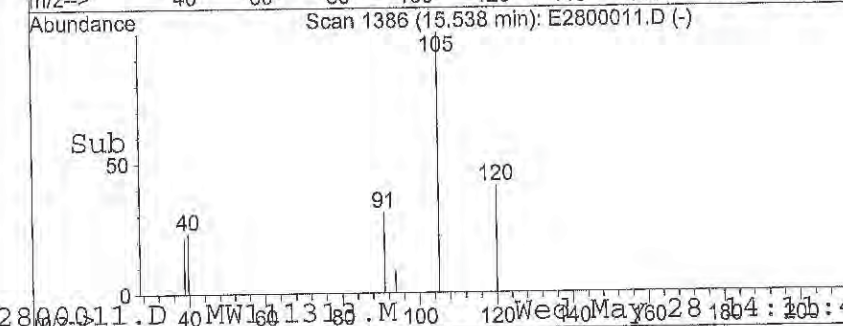
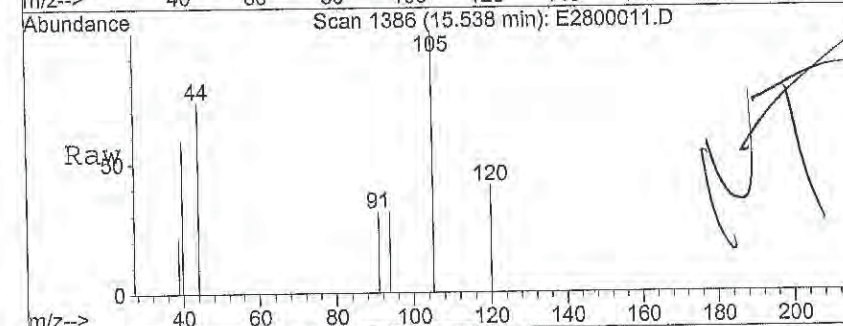
Acq: 28 May 2014 1:50 pm

Tgt Ion: 91 Resp: 477

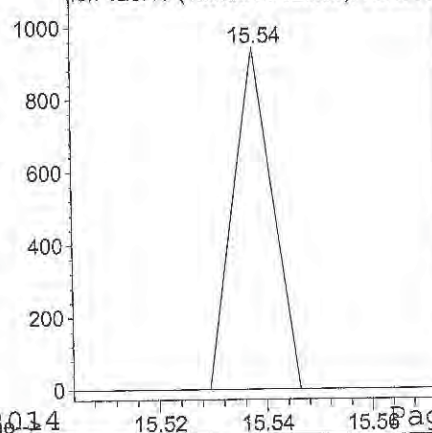
Ion Ratio Lower Upper

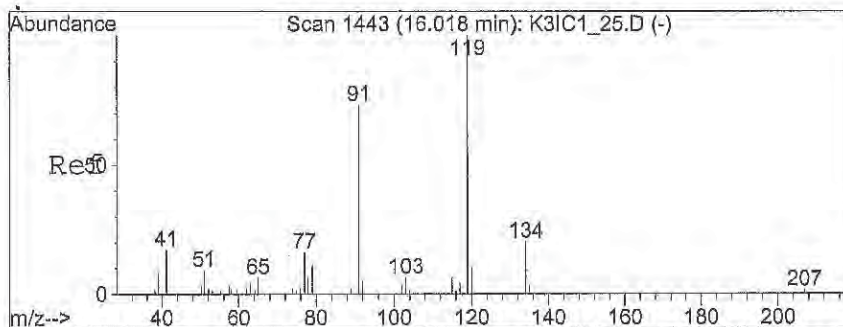
91 100

126 0.0 24.6 36.8#



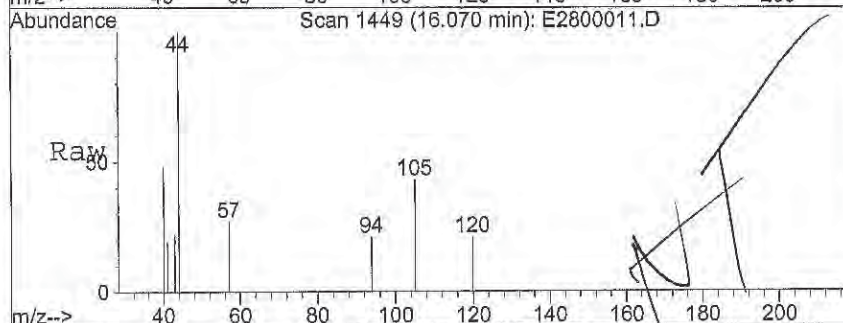
Abundance Ion 91.10 (90.80 to 91.80): E2800011.
Ion 126.10 (125.80 to 126.80): E280000





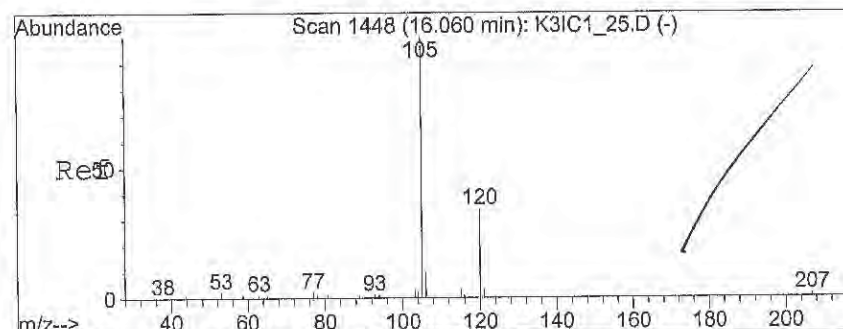
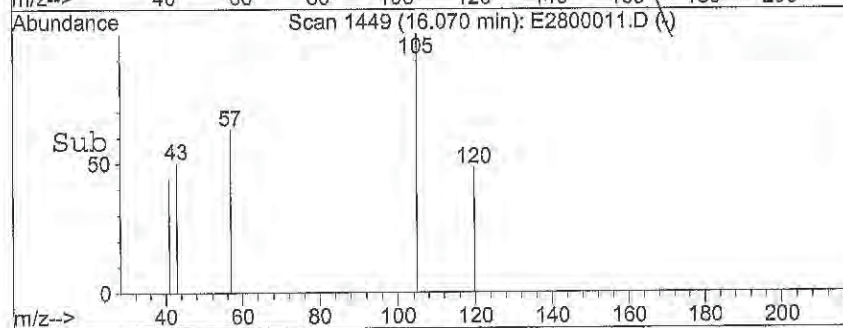
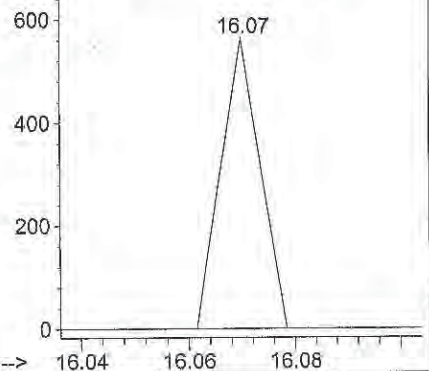
#66
tert-Butylbenzene
Concen: 0.02 ug/L
RT: 16.07 min Scan# 1449
Delta R.T. 0.05 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

Tgt Ion: 119 Resp: 286
Ion Ratio Lower Upper
119 100
91 0.0 56.3 84.5#
134 0.0 16.1 24.1#



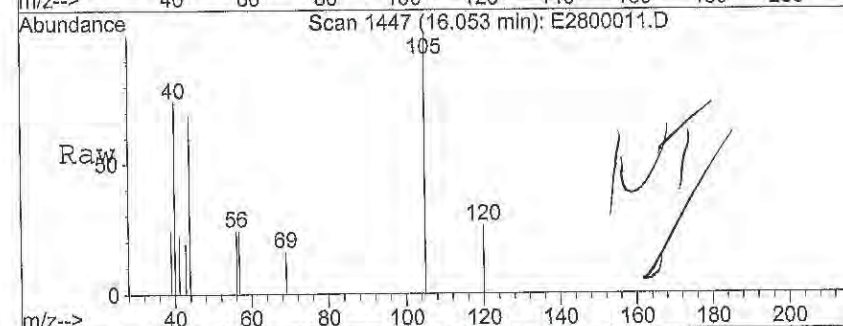
Abundance

Ion 119.15 (118.85 to 119.85): E28000
Ion 91.10 (90.80 to 91.80): E2800011
Ion 134.15 (133.85 to 134.85): E28000



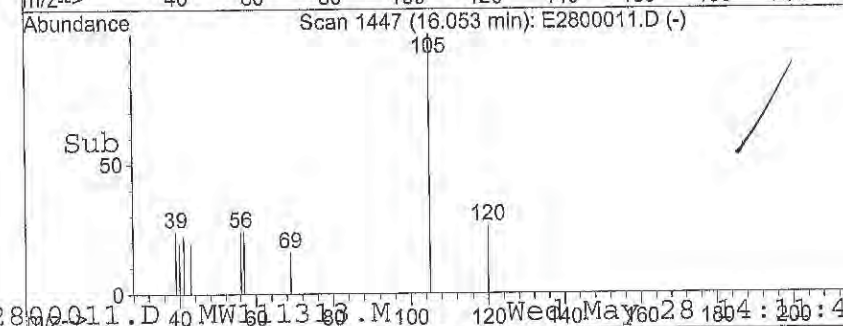
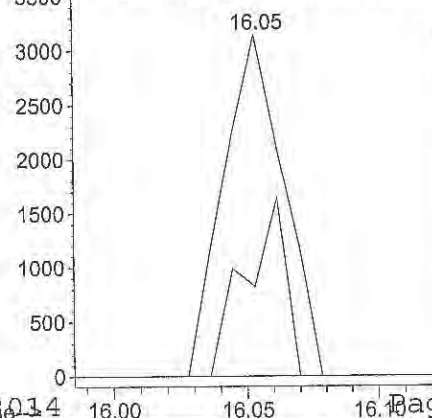
#67
1,2,4-Trimethylbenzene
Concen: 0.28 ug/L
RT: 16.05 min Scan# 1447
Delta R.T. -0.01 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

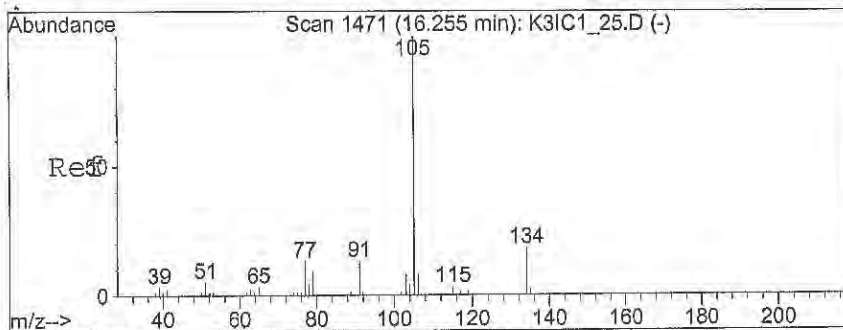
Tgt Ion: 105 Resp: 4975
Ion Ratio Lower Upper
105 100
120 35.2 33.8 50.8



Abundance

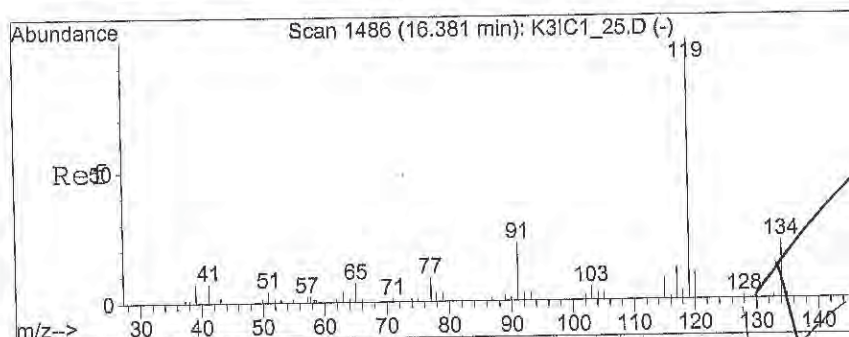
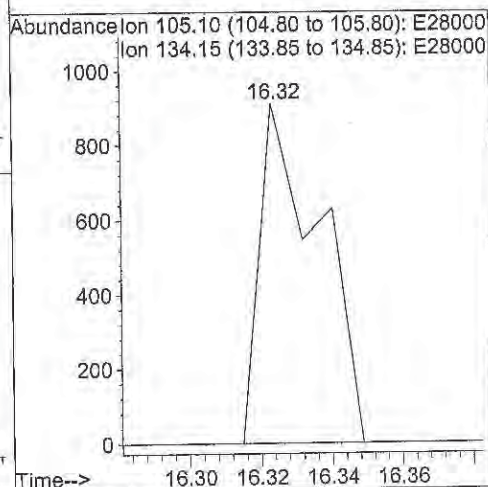
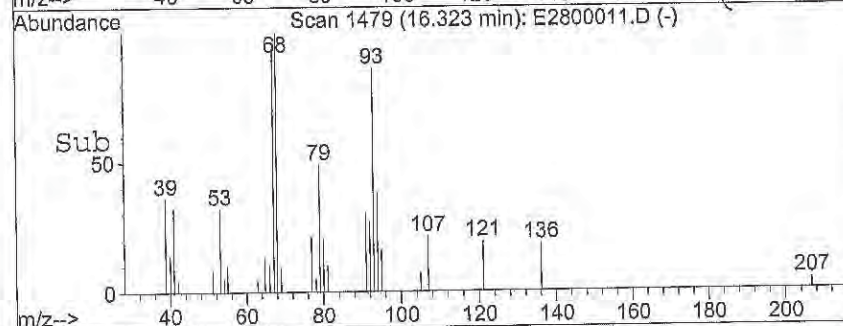
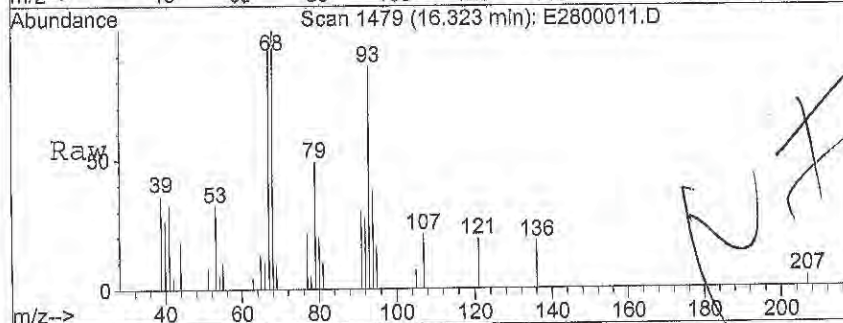
Ion 105.10 (104.80 to 105.80): E28000
Ion 120.15 (119.85 to 120.85): E28000





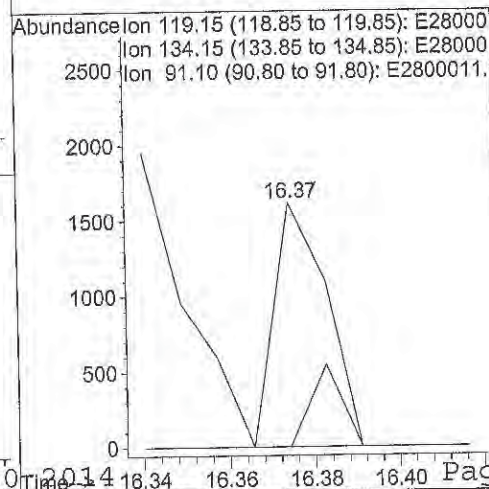
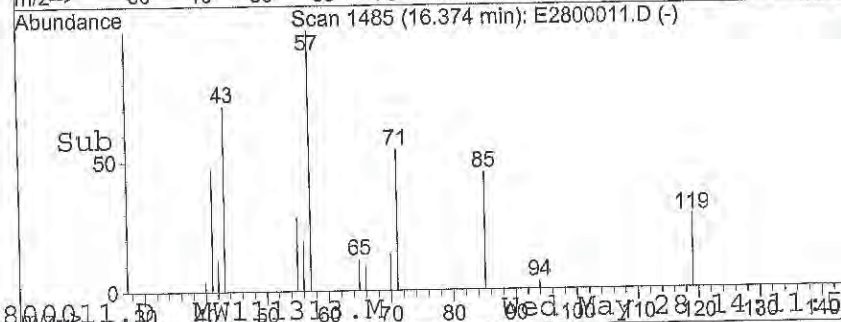
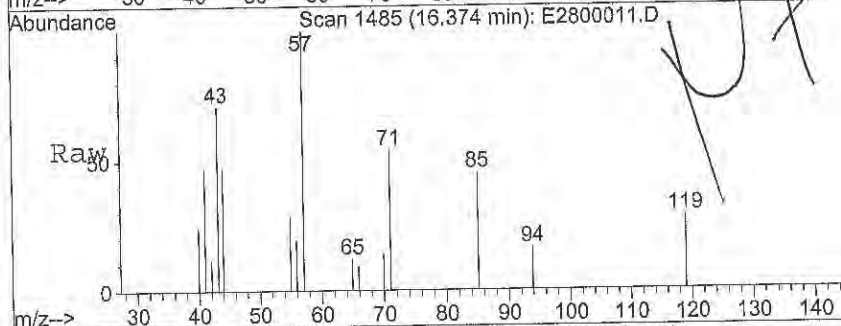
#68
 sec-Butylbenzene
 Concen: 0.05 ug/L
 RT: 16.32 min Scan# 1479
 Delta R.T. 0.07 min
 Lab File: E2800011.D
 Acq: 28 May 2014 1:50 pm

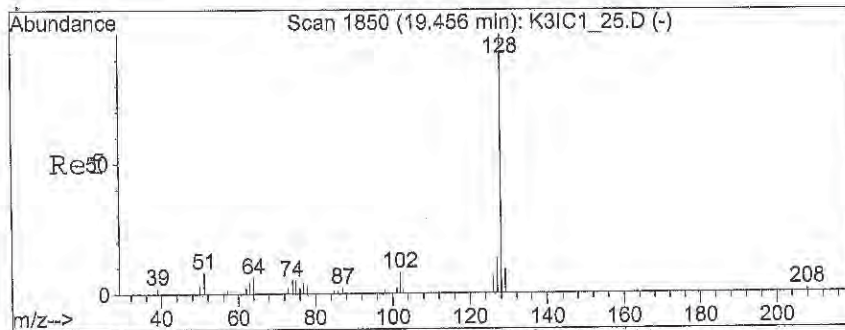
Tgt Ion:105 Resp: 1057
 Ion Ratio Lower Upper
 105 100
 134 0.0 13.0 19.6#



#69
 p-Isopropyltoluene
 Concen: 0.07 ug/L
 RT: 16.37 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: E2800011.D
 Acq: 28 May 2014 1:50 pm

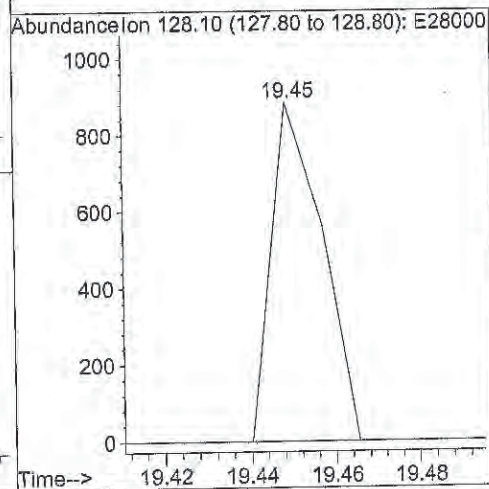
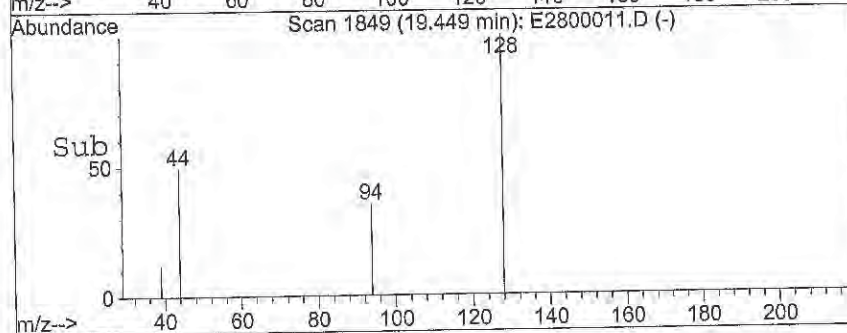
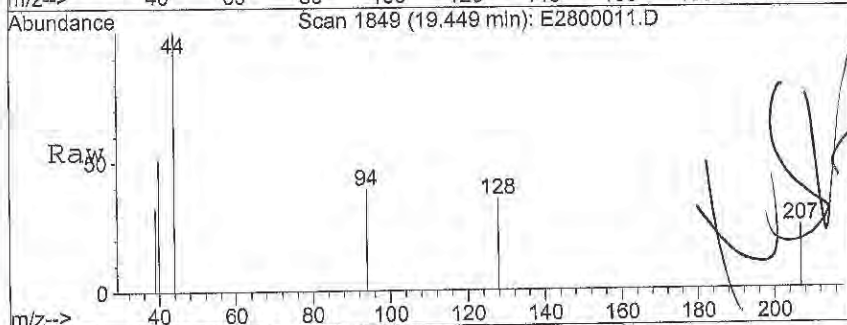
Tgt Ion:119 Resp: 1376
 Ion Ratio Lower Upper
 119 100
 134 0.0 17.4 26.2#
 91 20.1 19.6 29.4





#77
Naphthalene
Concen: 0.05 ug/L
RT: 19.45 min Scan# 1849
Delta R.T. -0.01 min
Lab File: E2800011.D
Acq: 28 May 2014 1:50 pm

Tgt Ion:128 Resp: 732



Data File : C:\HPCHEM\1\DATA\052814L3\E2800011.D

Vial: 2

Acq On : 28 May 2014 1:50 pm

Operator: DN

Sample : 3E42801-10

Inst : GC/MS Ins

Misc : 100cc SVL-544-SA5D-SV-4.5-5.5

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 14:11 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.28	96	1619122	12.50	ug/L	-0.03
7) Chlorobenzene-d5 (IS)	13.92	117	1274498	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.50	152	681965	12.50	ug/L	-0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.42	113	460228	10.93	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	87.44%
3) Chloroform-d (SU6)	9.18	84	731445	12.11	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	96.88%
4) Methylene Chloride-d2 (SU5)	7.06	86	422604	11.97	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	95.76%
5) 1,2-Dichloroethane-d4 (SU2)	9.89	65	447728	15.56	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	124.48%
6) Benzene-d6 (SU7)	9.92	84	1424918	11.22	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	89.76%
8) Toluene-d8 (SU3)	12.20	98	1424769	11.78	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.24%
9) 4-Bromofluorobenzene (SU4)	15.22	95	701649	14.06	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	112.48%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2800011.D SS072713.M

Wed May 28 14:11:06 2014

Page 1

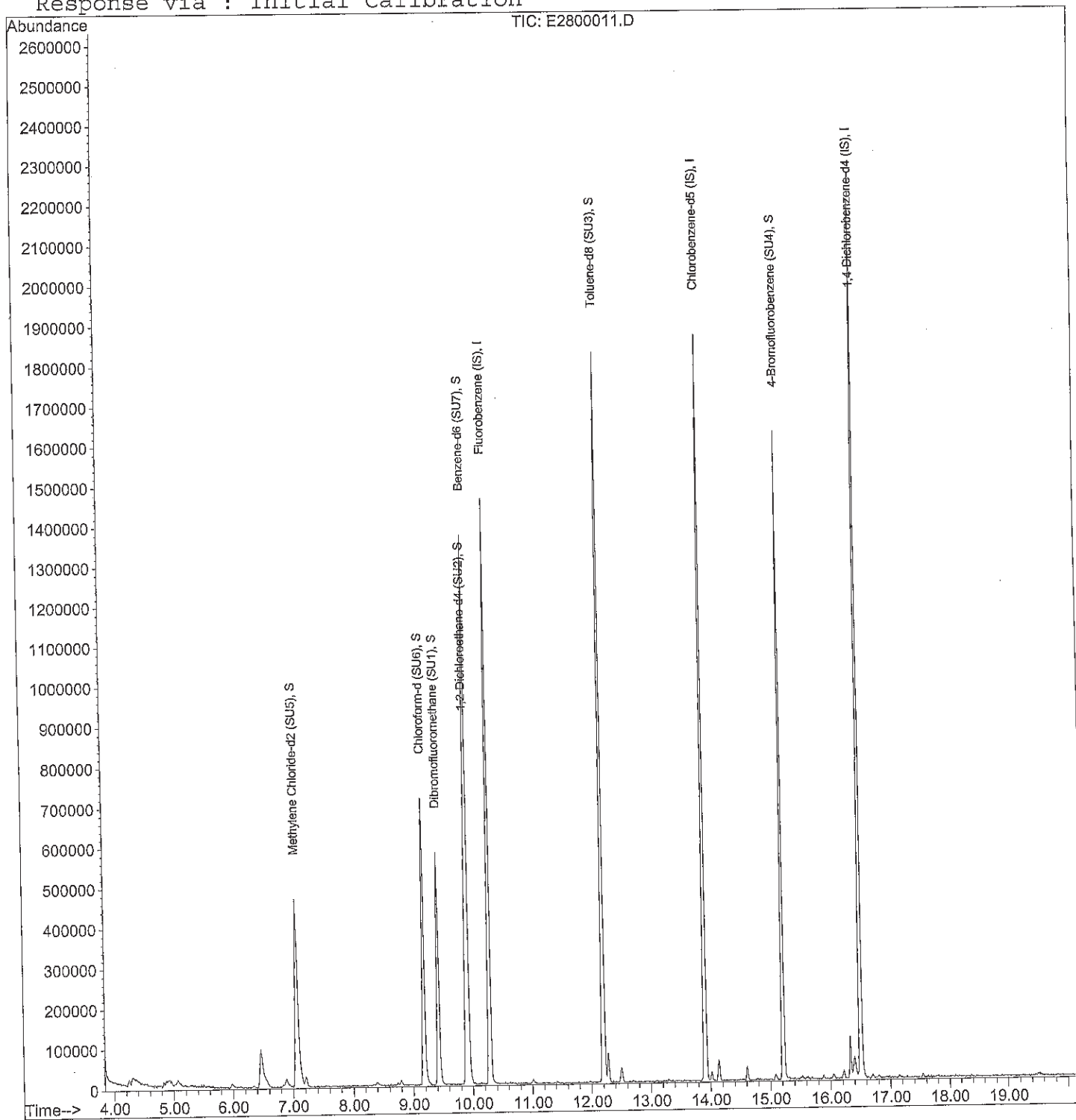
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800011.D
 Acq On : 28 May 2014 1:50 pm
 Sample : 3E42801-10
 Misc : 100cc SVL-544-SA5D-SV-4.5-5.5
 MS Integration Params: rteint.p
 Quant Time: May 28 14:11 19114

Vial: 2
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052814L3\E2800012.D

Vial: 3

Acq On : 28 May 2014 2:19 pm

Operator: DN

Sample : 3E42801-11

Inst : GC/MS Ins

Misc : 100cc FB-052814

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 14:40 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1597393	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.91	117	1246183	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	690192	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	461787	11.59	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	92.72%
28) 1,2-Dichloroethane-d4 (SU2)	9.89	65	448354	11.84	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.72%
39) Toluene-d8 (SU3)	12.20	98	1416371	12.19	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	97.52%
58) 4-Bromofluorobenzene (SU4)	15.22	95	702382	13.78	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	110.24%

Target Compounds

					Qvalue	
4) Chloromethane	4.39	50	1628	-0.61 ug/L	#	41
6) Bromomethane	5.11	96	1676	-0.82 ug/L	#	28
7) Chloroethane	5.33	64	743	1.25 ug/L	#	94
9) (F113) 1,1,2-Trichloro-tri	6.35	151	2701	0.86 ug/L	0.0172	97
11) Acetone	6.46	58	5255	3.44 ug/L	#	90
12) (IPA) Leak Check Compound	6.46	45	212767	1108.45 ug/L	#	83
13) Carbon disulfide	6.83	76	2495	0.19 ug/L	#	76
14) Methylene Chloride	7.06	84	5938	1.35 ug/L	#	1
15) (TBA) tert-Butanol	6.90	59	2009	7.37 ug/L	#	77
22) (DIPE) Diisopropyl Ether	8.10	45	261	0.02 ug/L	#	48
24) Chloroform	9.20	83	2971	0.36 ug/L	#	92
29) 1,1-Dichloropropene	9.93	75	297	0.05 ug/L	#	1
31) Benzene	9.98	78	1711	0.11 ug/L	#	57
32) 1,2-Dichloroethane	9.92	62	6097	1.15 ug/L	#	1
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	7284	2.93 ug/L	#	100
41) Toluene	12.28	91	6782	0.40 ug/L	0.008	99
46) 2-Hexanone	12.94	43	306	0.11 ug/L	#	37
51) Ethylbenzene	14.02	91	2553	0.13 ug/L	#	45
52) m,p-Xylenes	14.14	106	2017	0.29 ug/L	0.0058	77
53) o-Xylene	14.62	106	285	0.04 ug/L	#	1
54) Styrene	14.63	104	1707	-0.70 ug/L	#	69
56) Isopropylbenzene	15.22	105	980	0.05 ug/L	#	1

(#)=qualifier out of range (m)=manual integration

E2800012.D MW111313.M

Wed May 28 14:40:28 2014

Page 1

Data File : C:\HPCHEM\1\DATA\052814L3\E2800012.D Vial: 3
Acq On : 28 May 2014 2:19 pm Operator: DN
Sample : 3E42801-11 Inst : GC/MS Ins
Misc : 100cc FB-052814 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: May 28 14:40 19114 Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
57) 1,2,3-Trichloropropane	15.31	75	302	0.06	ug/L #	36
62) n-Propylbenzene	15.22	91	2161	0.08	ug/L #	56
68) sec-Butylbenzene	16.33	105	907	0.04	ug/L #	62
69) p-Isopropyltoluene	16.38	119	294	0.02	ug/L #	52
77) Naphthalene	19.44	128	353	0.03	ug/L	100

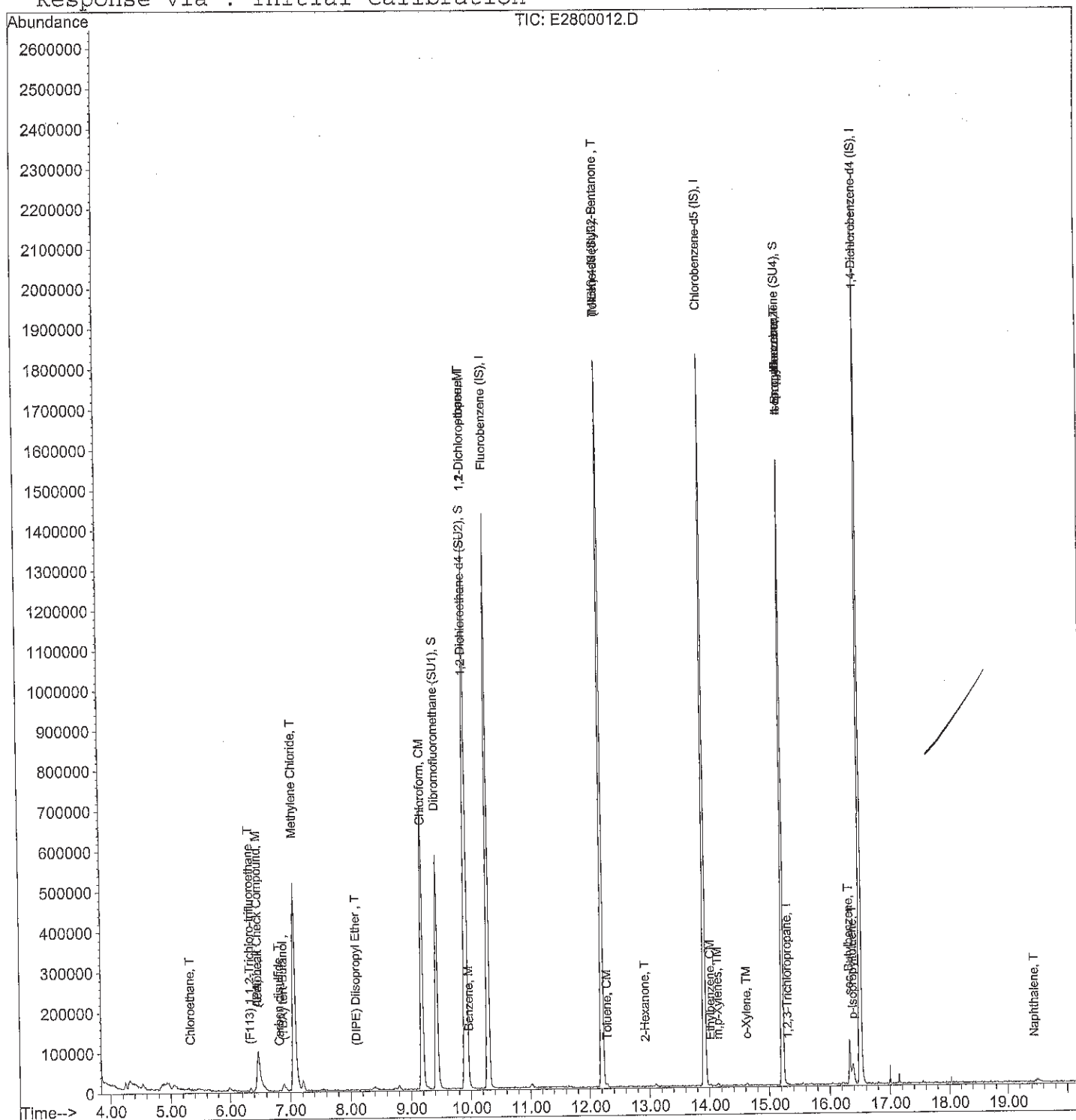
Quantitation Report

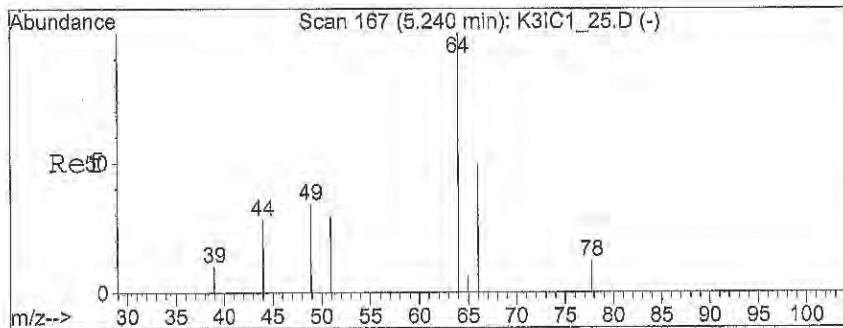
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 Acq On : 28 May 2014 2:19 pm
 Sample : 3E42801-11
 Misc : 100cc FB-052814
 MS Integration Params: rteint.p
 Quant Time: May 28 14:40 19114

Vial: 3
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

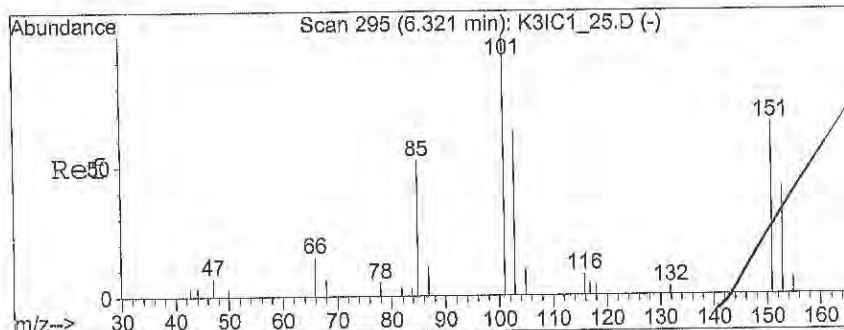
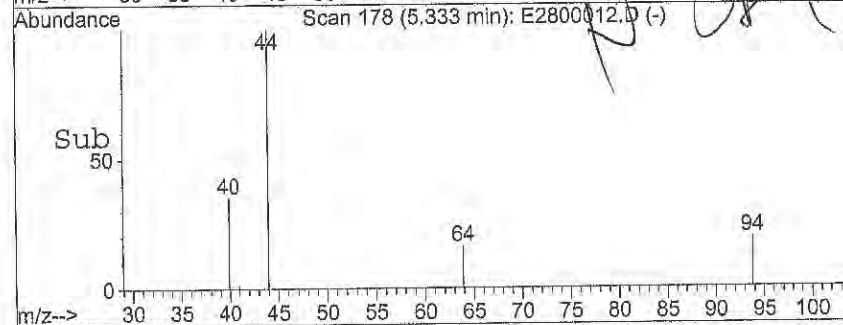
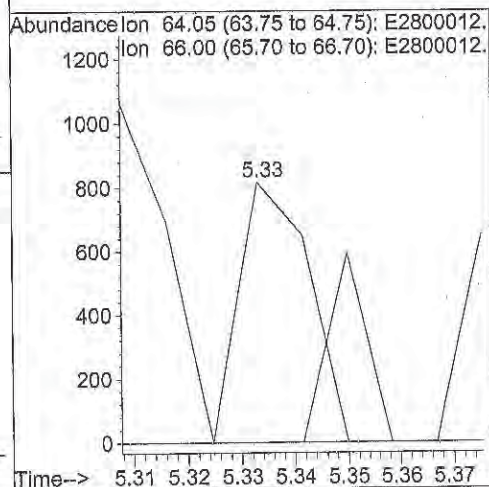
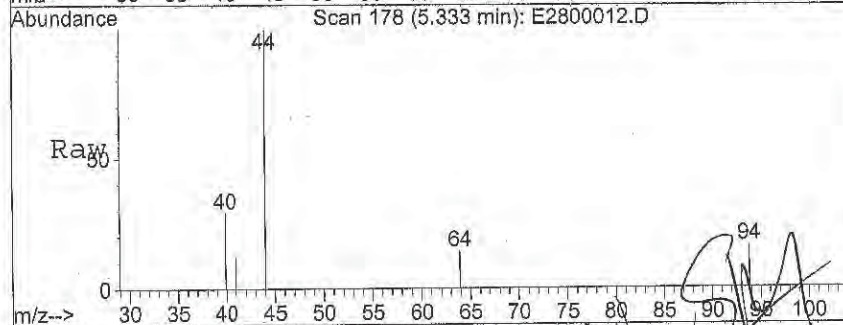
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration





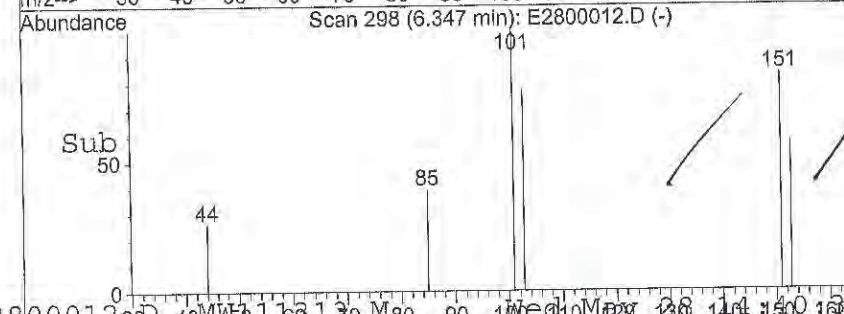
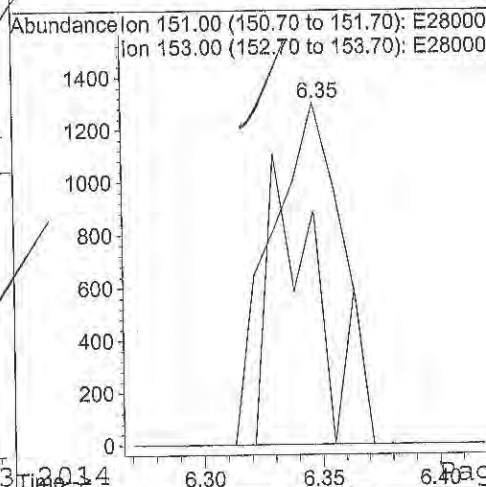
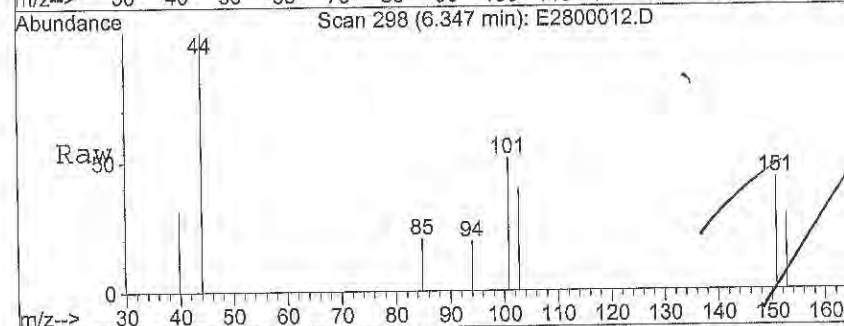
#7
 Chloroethane
 Concen: 1.25 ug/L
 RT: 5.33 min Scan# 178
 Delta R.T. 0.09 min
 Lab File: E2800012.D
 Acq: 28 May 2014 2:19 pm

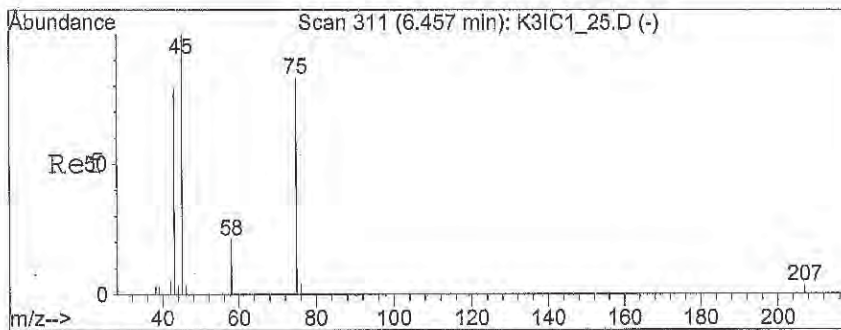
Tgt Ion: 64 Resp: 743
 Ion Ratio Lower Upper
 64 100
 66 40.4 35.4 53.0



#9
 (F113) 1,1,2-Trichloro-trifluor
 Concen: 0.86 ug/L
 RT: 6.35 min Scan# 298
 Delta R.T. 0.03 min
 Lab File: E2800012.D
 Acq: 28 May 2014 2:19 pm

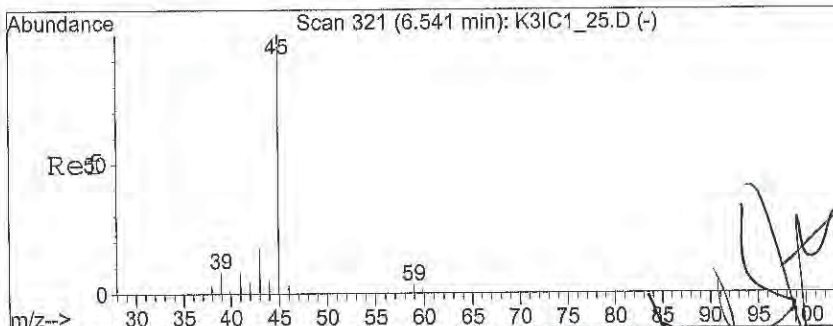
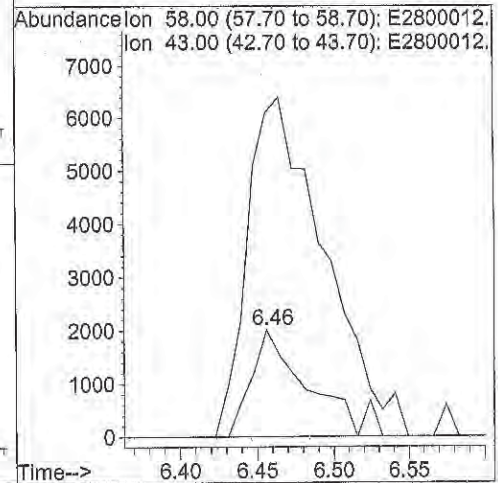
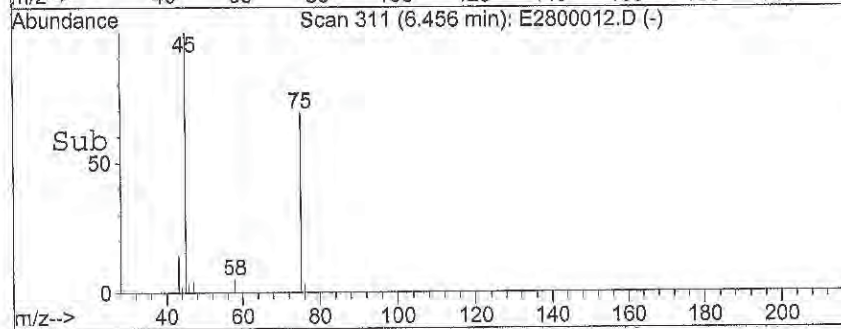
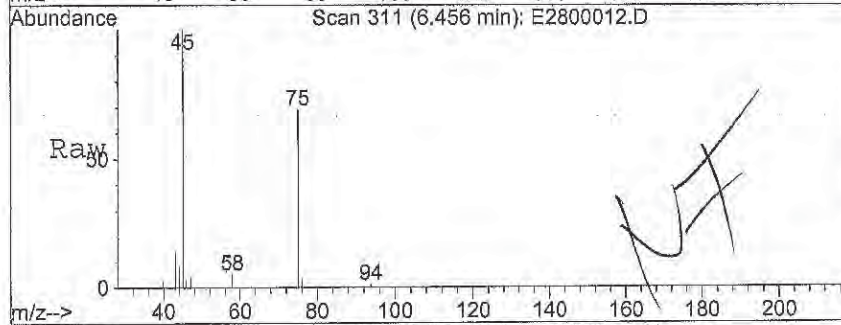
Tgt Ion: 151 Resp: 2701
 Ion Ratio Lower Upper
 151 100
 153 59.6 49.6 74.4





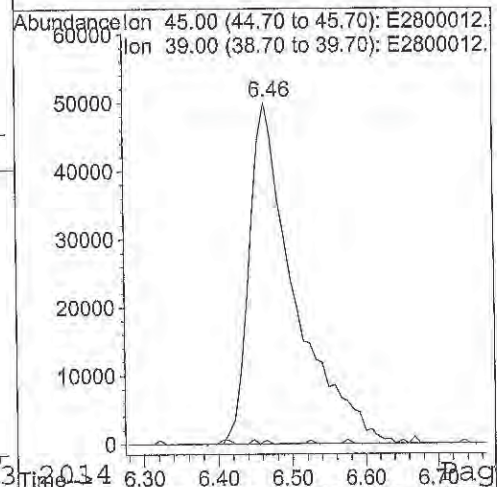
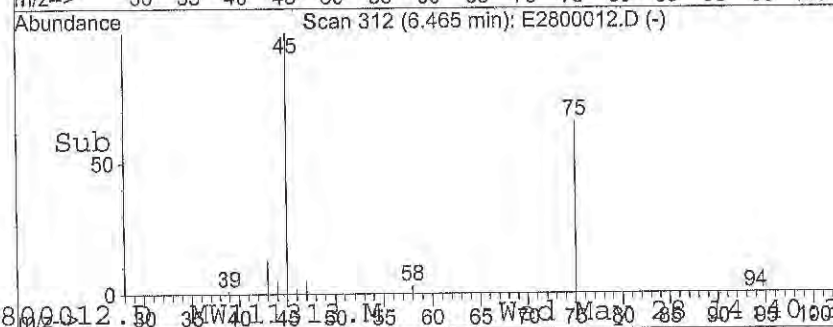
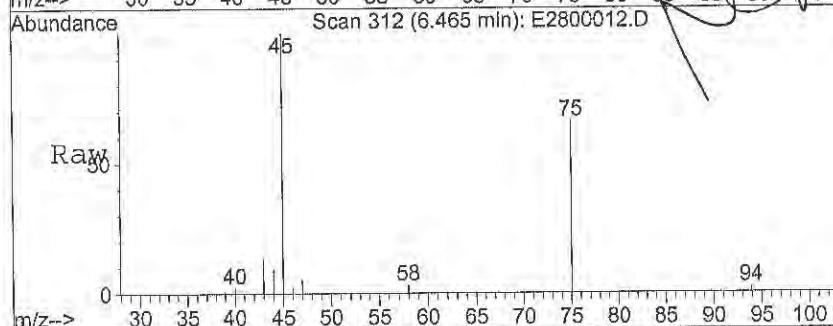
#11
Acetone
Concen: 3.44 ug/L
RT: 6.46 min Scan# 311
Delta R.T. -0.00 min
Lab File: E2800012.D
Acq: 28 May 2014 2:19 pm

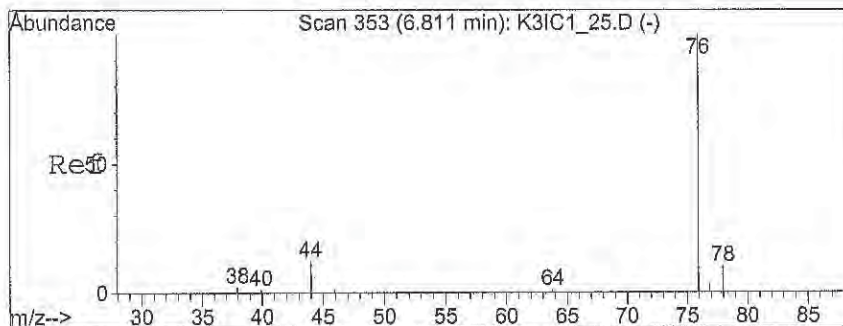
Tgt Ion: 58 Resp: 5255
Ion Ratio Lower Upper
58 100
43 425.0 360.9 541.3



#12
(IPA) Leak Check Compound
Concen: 1108.45 ug/L
RT: 6.46 min Scan# 312
Delta R.T. -0.08 min
Lab File: E2800012.D
Acq: 28 May 2014 2:19 pm

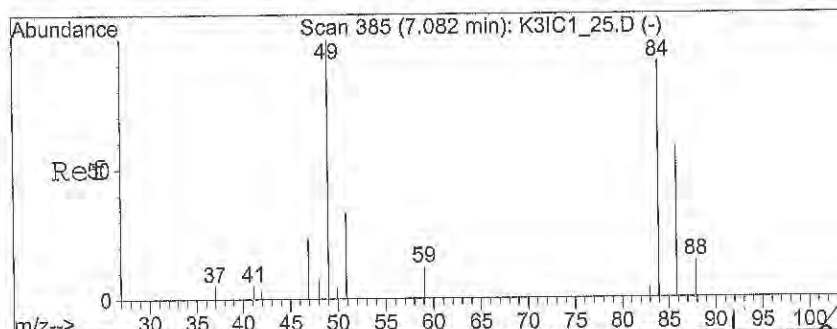
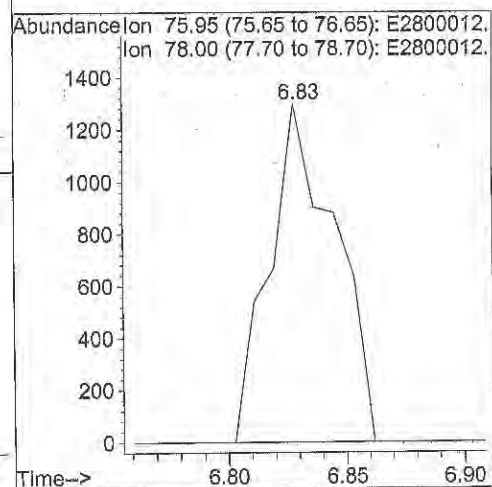
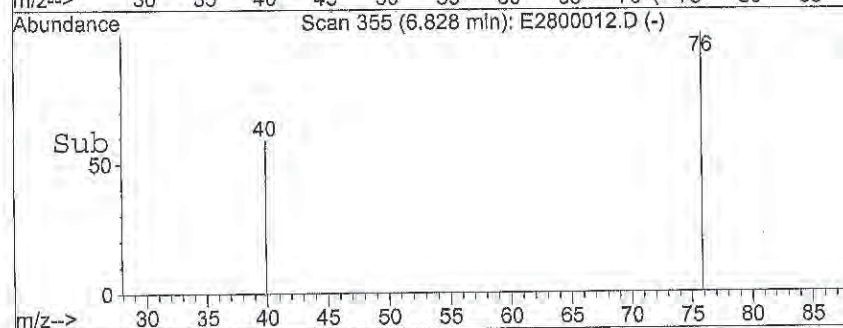
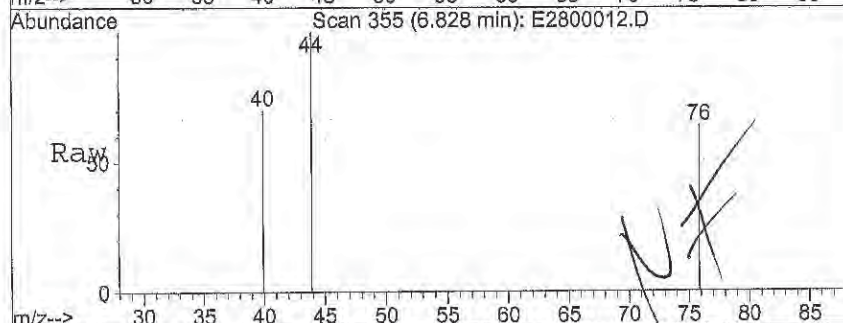
Tgt Ion: 45 Resp: 212767
Ion Ratio Lower Upper
45 100
39 0.3 4.9 7.3#





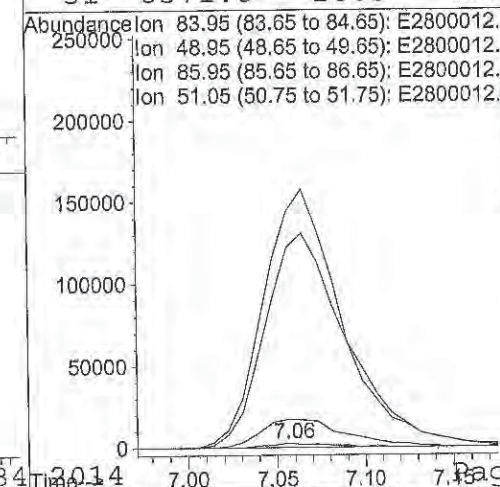
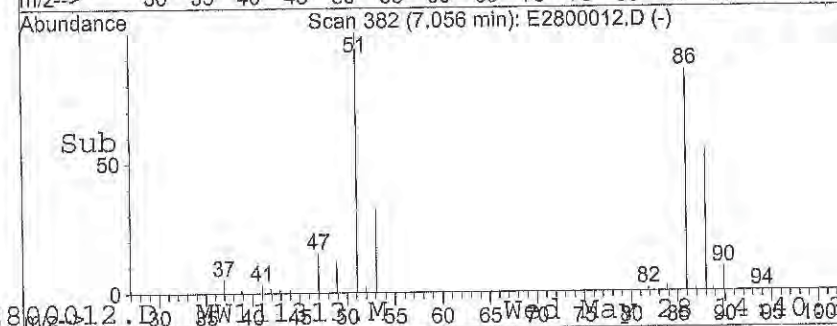
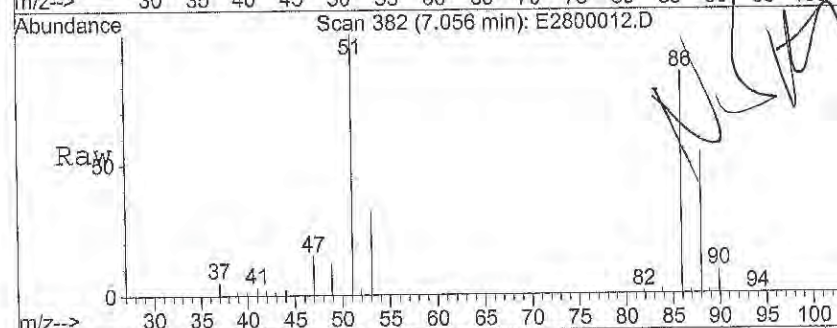
#13
Carbon disulfide
Concen: 0.19 ug/L
RT: 6.83 min Scan# 355
Delta R.T. 0.02 min
Lab File: E2800012.D
Acq: 28 May 2014 2:19 pm

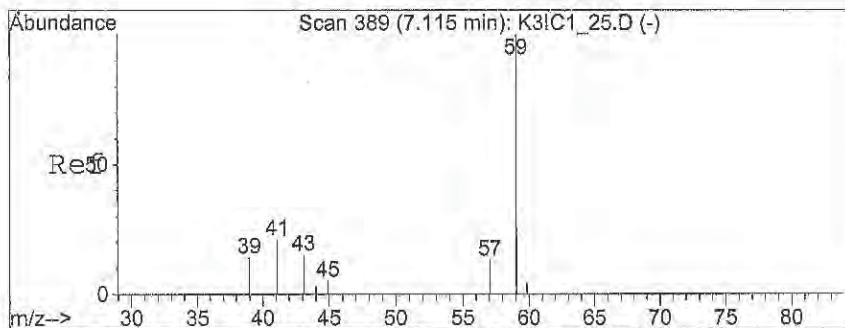
Tgt Ion: 76 Resp: 2495
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#14
Methylene Chloride
Concen: 1.35 ug/L
RT: 7.06 min Scan# 382
Delta R.T. -0.03 min
Lab File: E2800012.D
Acq: 28 May 2014 2:19 pm

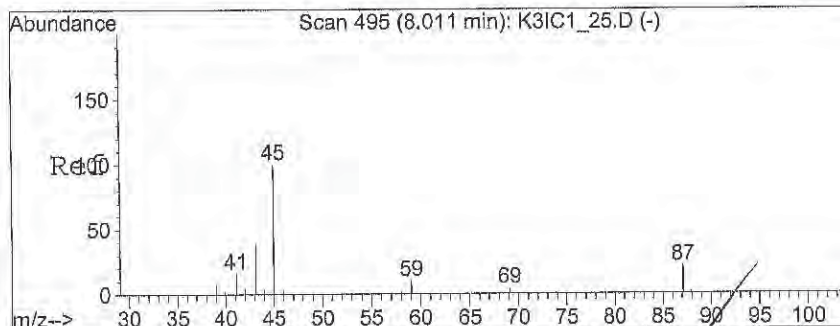
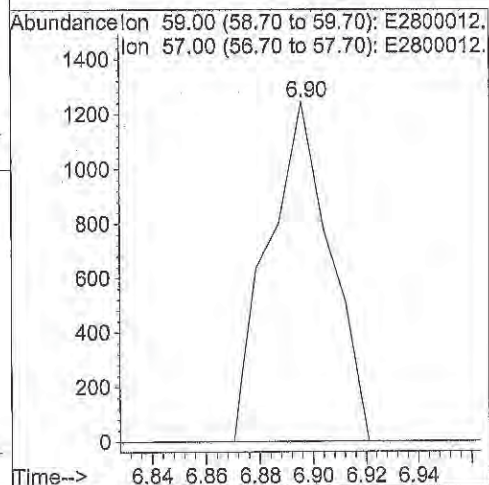
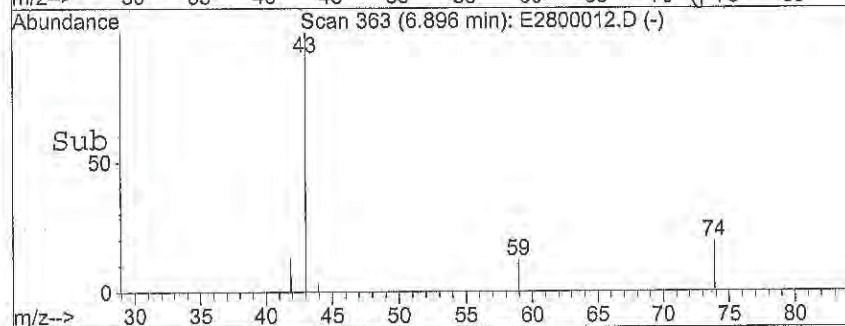
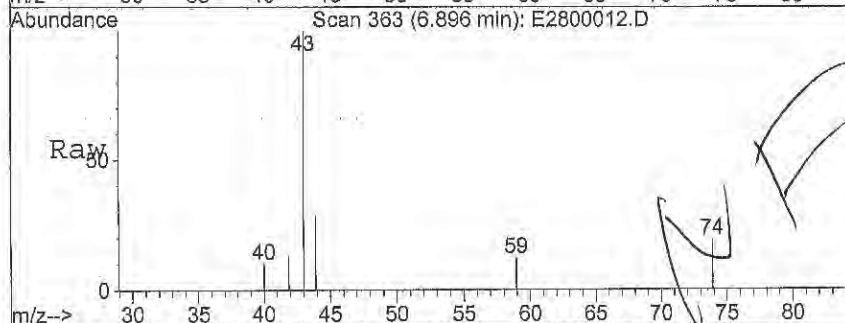
Tgt Ion: 84 Resp: 5938
Ion Ratio Lower Upper
84 100
49 960.8 89.8 134.6#
86 7024.4 51.1 76.7#
51 8371.8 28.5 42.7#





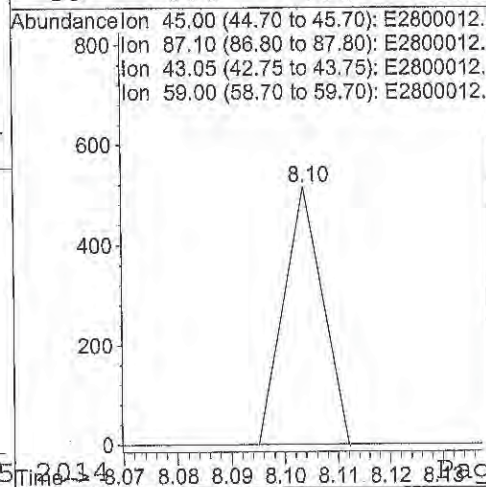
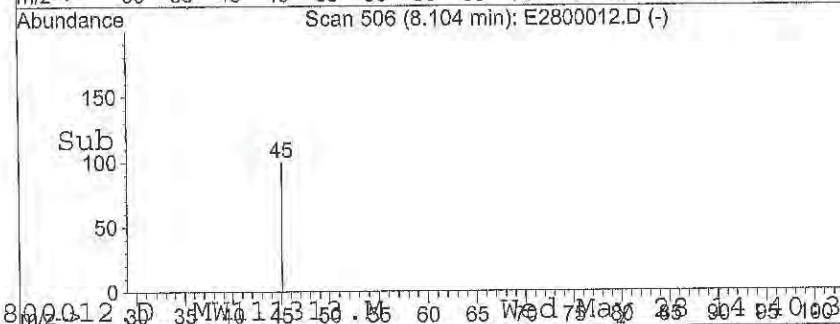
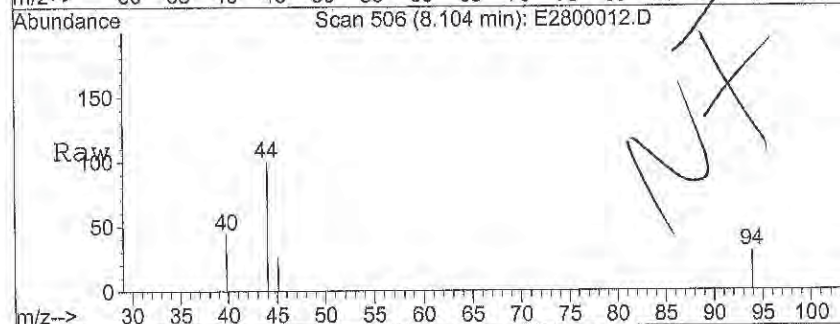
#15
 (TBA) tert-Butanol
 Concen: 7.37 ug/L
 RT: 6.90 min Scan# 363
 Delta R.T. -0.22 min
 Lab File: E2800012.D
 Acq: 28 May 2014 2:19 pm

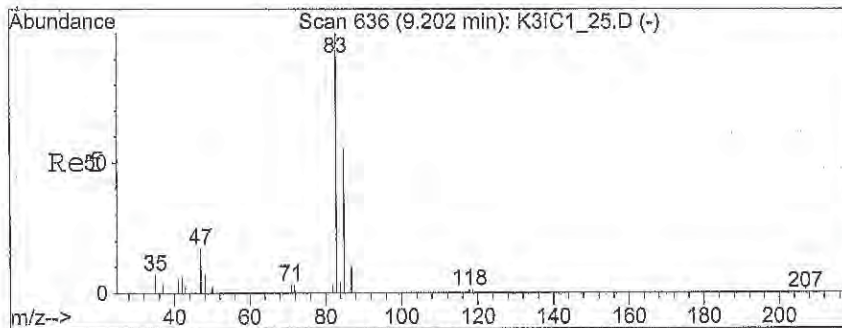
Tgt Ion: 59 Resp: 2009
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#22
 (DIPE) Diisopropyl Ether
 Concen: 0.02 ug/L
 RT: 8.10 min Scan# 506
 Delta R.T. 0.09 min
 Lab File: E2800012.D
 Acq: 28 May 2014 2:19 pm

Tgt Ion: 45 Resp: 261
 Ion Ratio Lower Upper
 45 100
 87 0.0 17.0 25.6#
 43 0.0 30.5 45.7#
 59 0.0 7.4 11.2#





#24

Chloroform

Concen: 0.36 ug/L

RT: 9.20 min Scan# 636

Delta R.T. -0.00 min

Lab File: E2800012.D

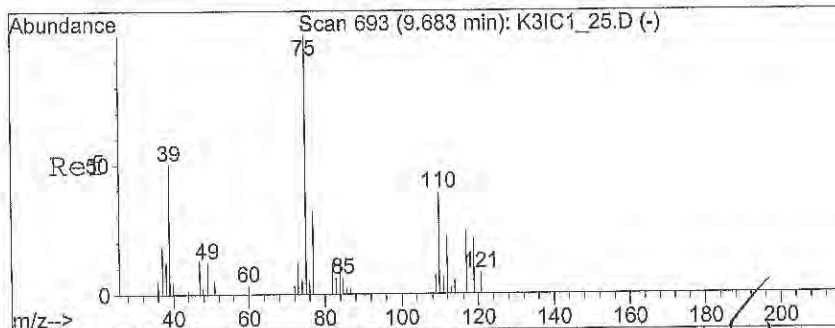
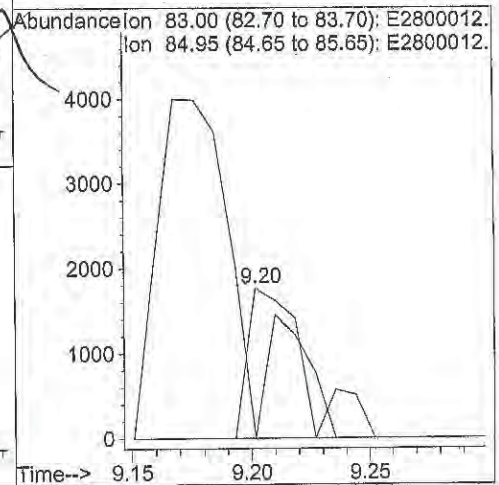
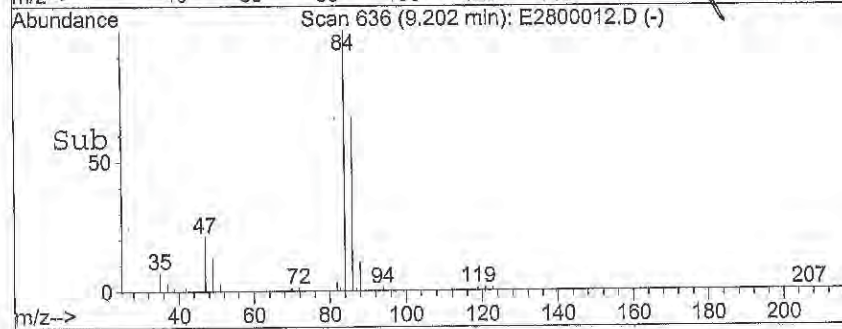
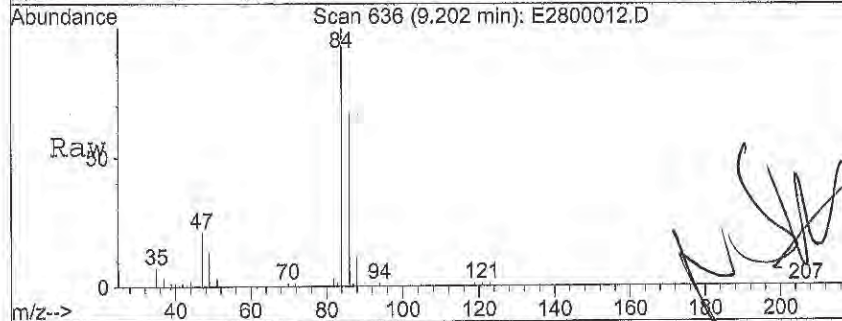
Acq: 28 May 2014 2:19 pm

Tgt Ion: 83 Resp: 2971

Ion Ratio Lower Upper

83 100

85 58.4 51.8 77.6



#29

1,1-Dichloropropene

Concen: 0.05 ug/L

RT: 9.93 min Scan# 722

Delta R.T. 0.24 min

Lab File: E2800012.D

Acq: 28 May 2014 2:19 pm

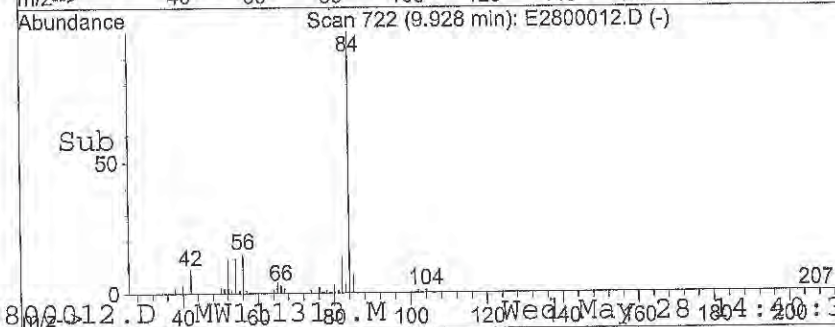
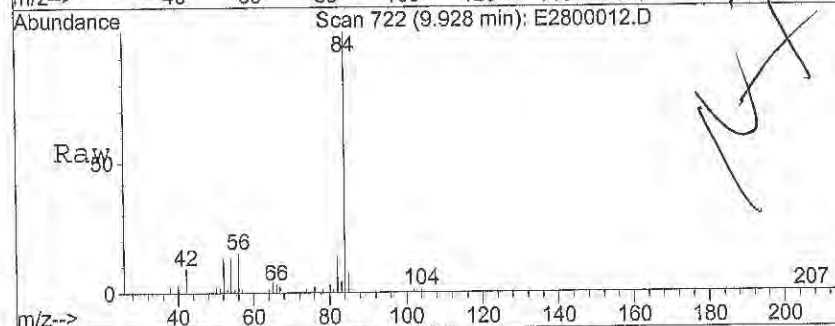
Tgt Ion: 75 Resp: 297

Ion Ratio Lower Upper

75 100

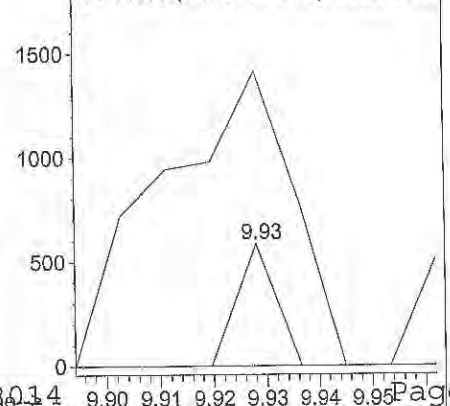
110 0.0 29.0 43.6#

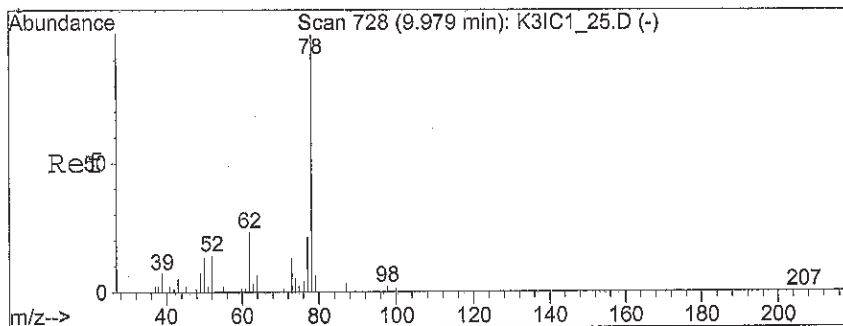
77 823.2 25.0 37.4#



Abundance

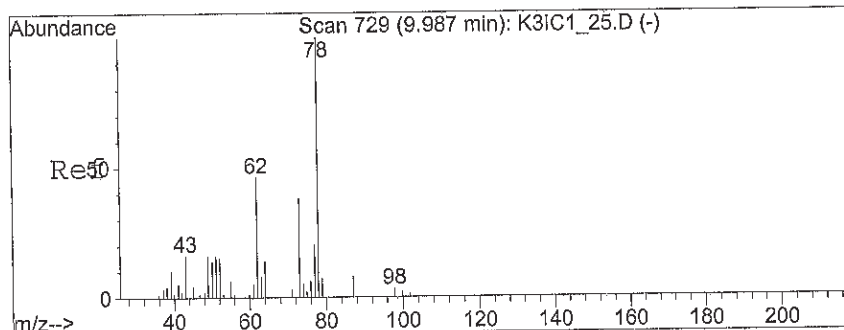
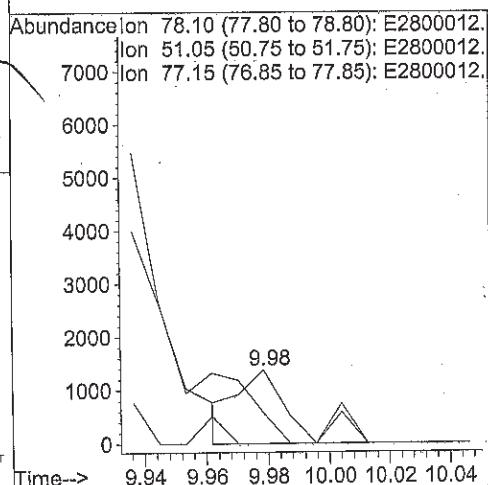
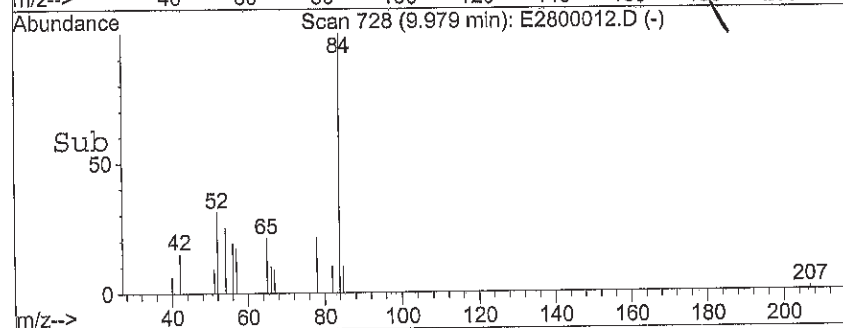
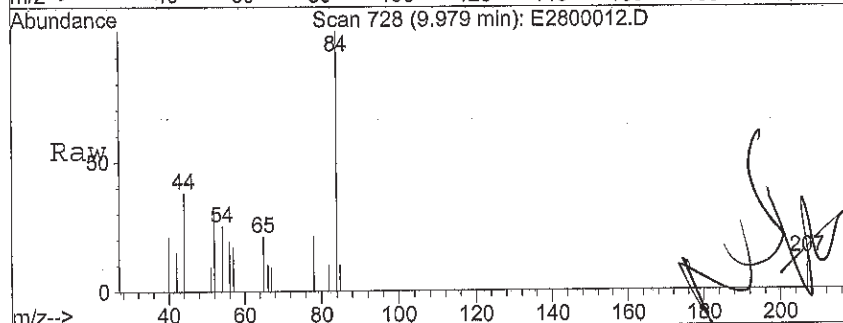
Ion 75.05 (74.75 to 75.75): E2800012.
Ion 110.05 (109.75 to 110.75): E2800012.
Ion 77.05 (76.75 to 77.75): E2800012.





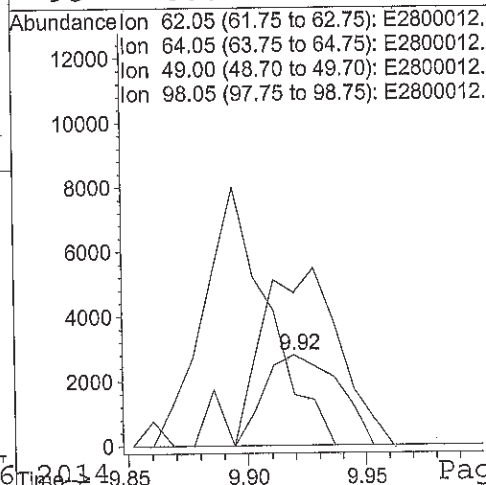
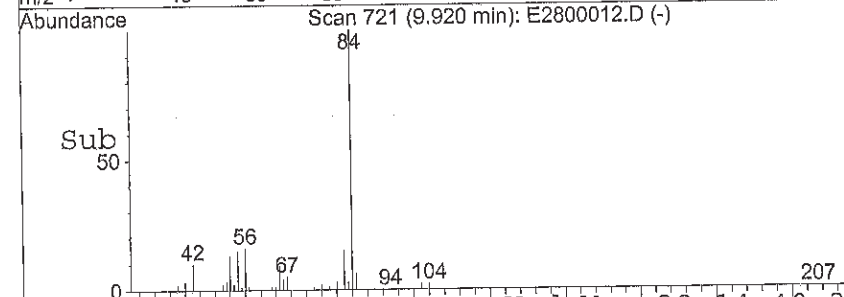
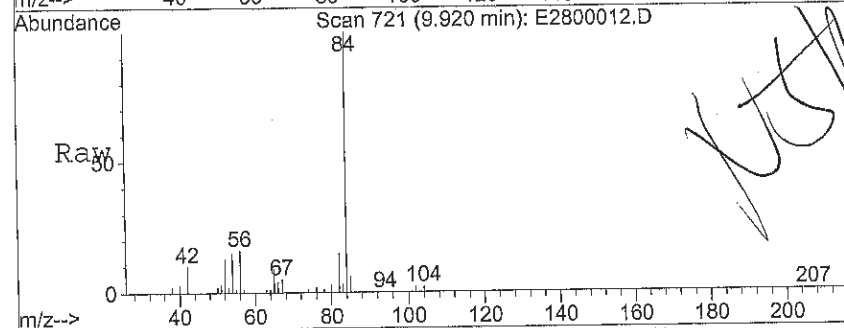
#31
Benzene
Concen: 0.11 ug/L
RT: 9.98 min Scan# 728
Delta R.T. -0.00 min
Lab File: E2800012.D
Acq: 28 May 2014 2:19 pm

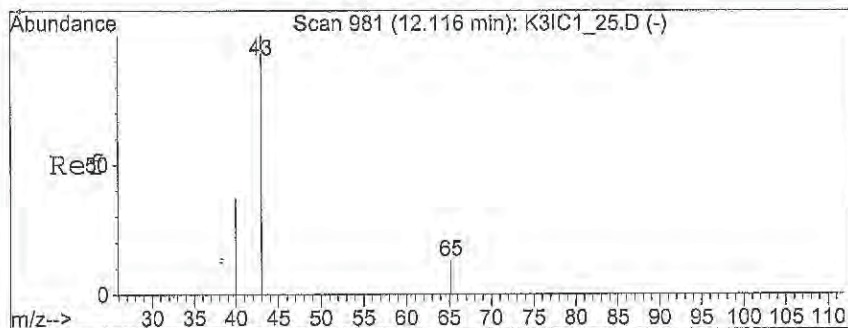
Tgt Ion:	78	Resp:	1711
Ion	Ratio	Lower	Upper
78	100		
51	0.0	14.2	21.2#
77	0.0	16.6	24.8#



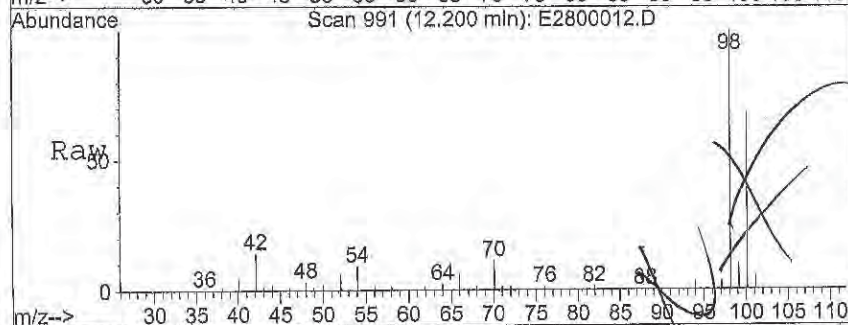
#32
1,2-Dichloroethane
Concen: 1.15 ug/L
RT: 9.92 min Scan# 721
Delta R.T. -0.07 min
Lab File: E2800012.D
Acq: 28 May 2014 2:19 pm

Tgt Ion:	62	Resp:	6097
Ion	Ratio	Lower	Upper
62	100		
64	216.0	28.0	42.0#
49	0.0	28.5	42.7#
98	0.0	6.2	9.4#

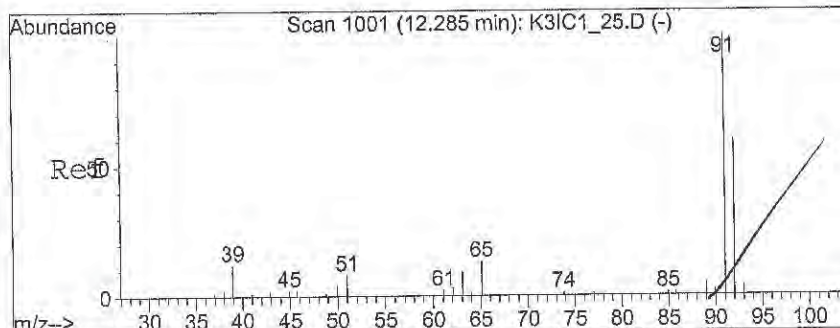
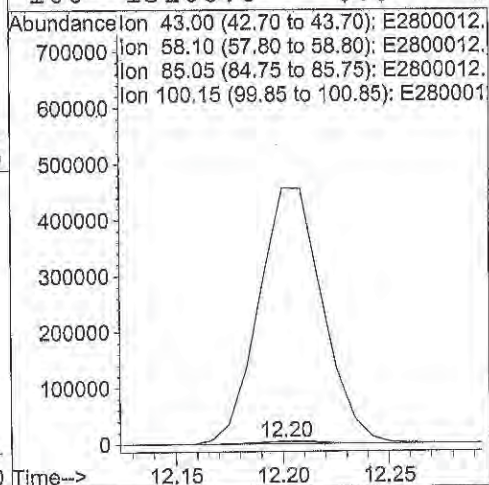
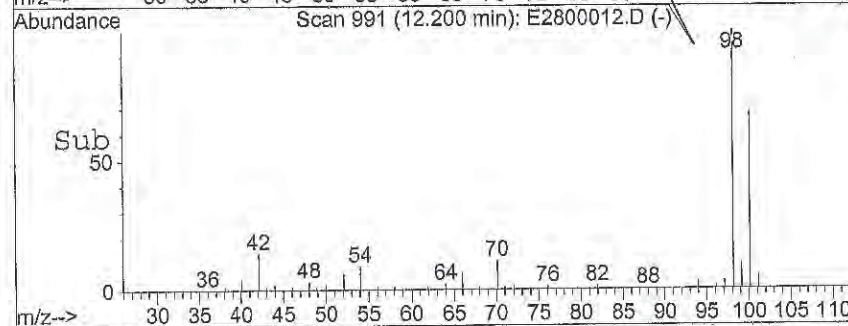




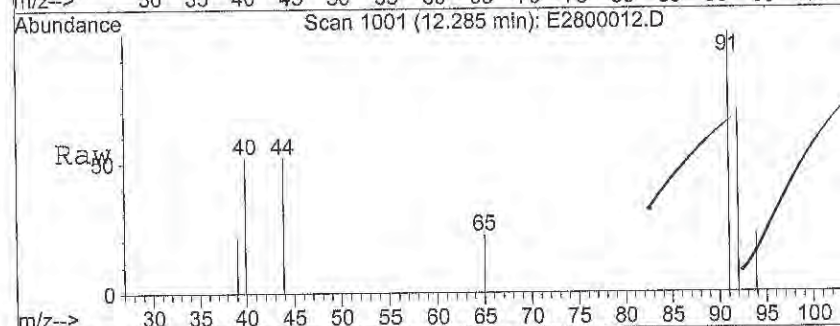
#40
 (MIBK) 4-Methyl-2-Pentanone
 Concen: 2.93 ug/L
 RT: 12.20 min Scan# 991
 Delta R.T. 0.08 min
 Lab File: E2800012.D
 Acq: 28 May 2014 2:19 pm



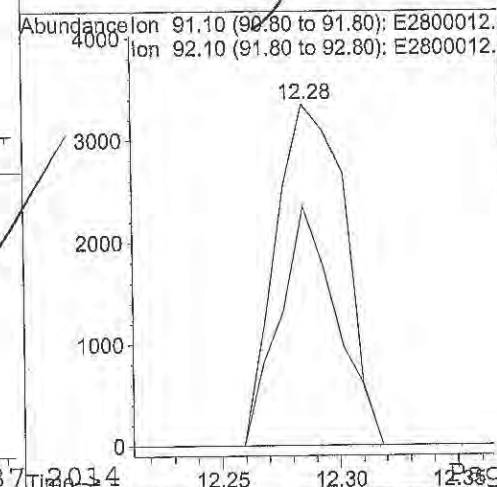
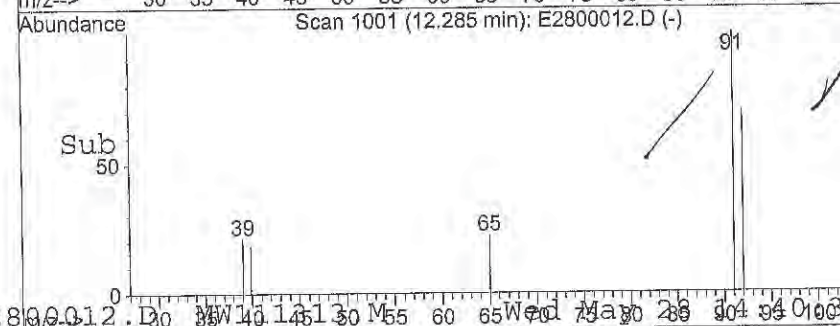
Tgt Ion: 43 Resp: 7284
 Ion Ratio Lower Upper
 43 100
 58 145.0 0.0 0.0#
 85 0.0 0.0 0.0
 100 13106.0 0.0 0.0#

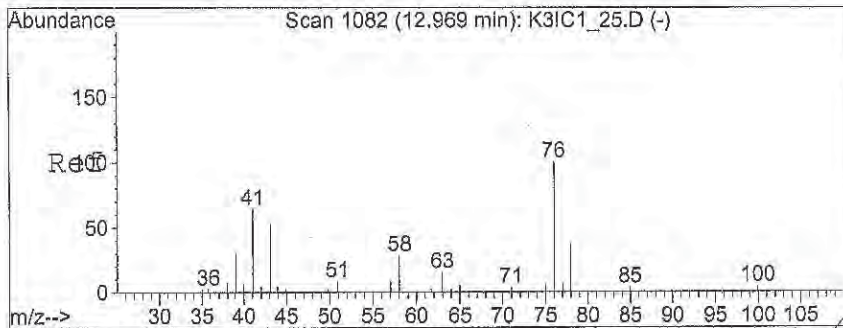


#41
 Toluene
 Concen: 0.40 ug/L
 RT: 12.28 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: E2800012.D
 Acq: 28 May 2014 2:19 pm



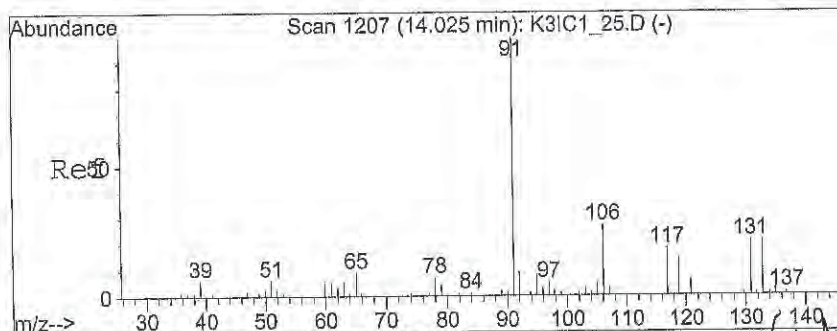
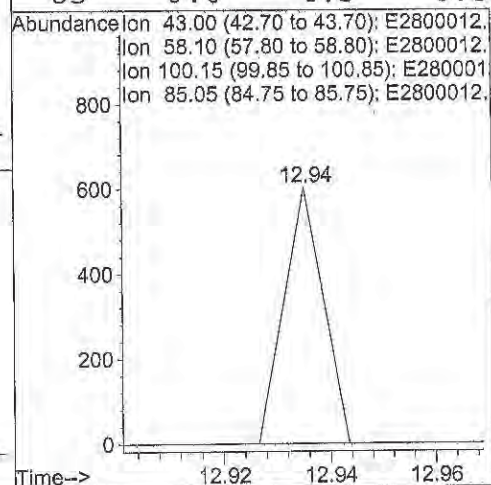
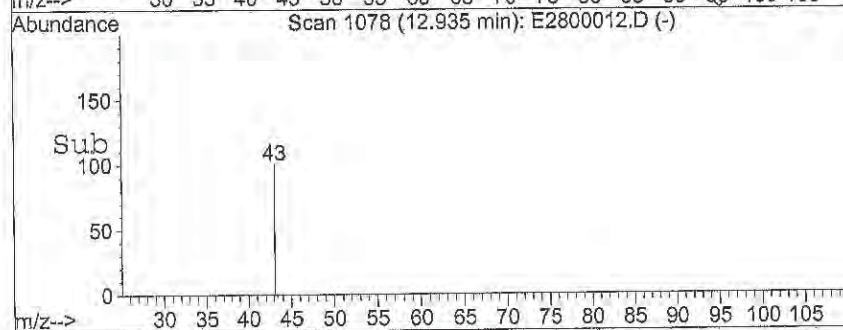
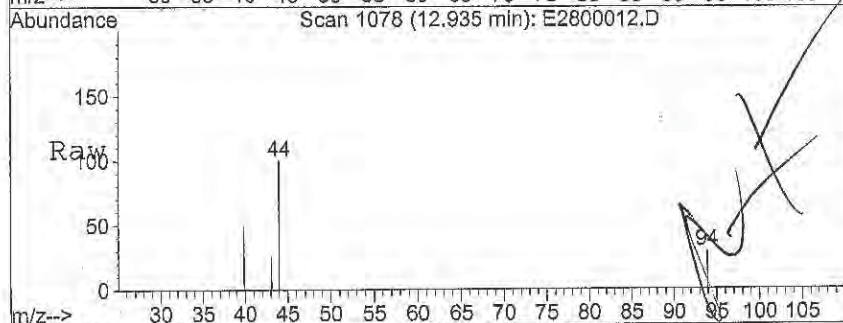
Tgt Ion: 91 Resp: 6782
 Ion Ratio Lower Upper
 91 100
 92 58.5 47.4 71.0





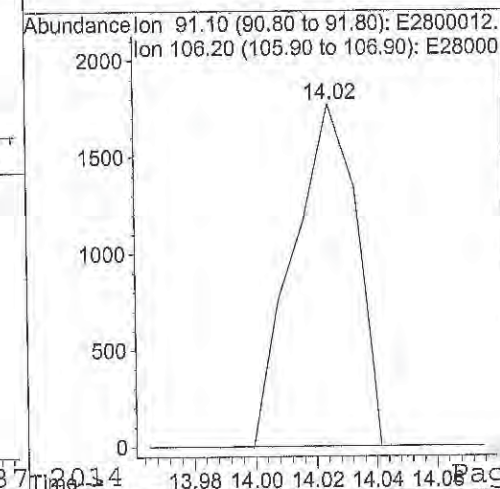
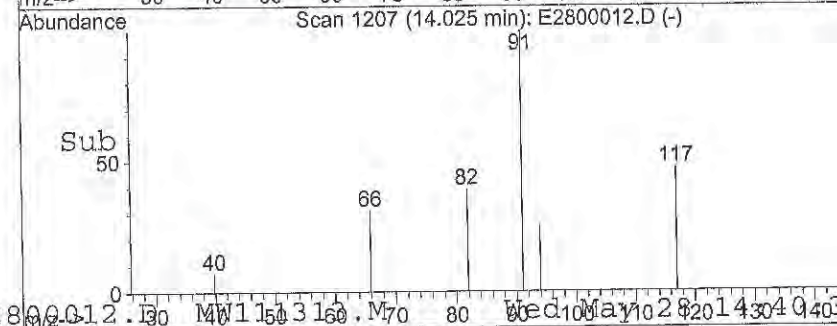
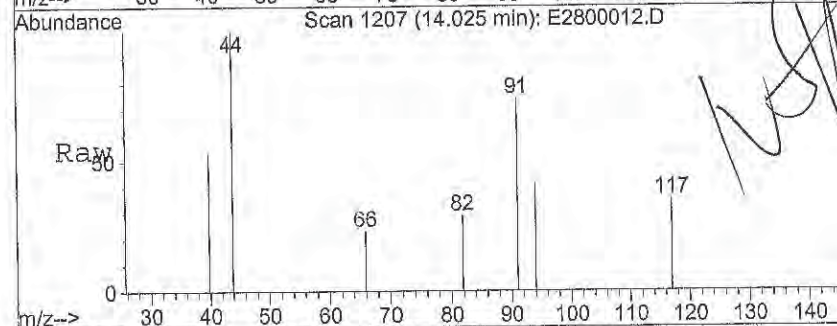
#46
2-Hexanone
Concen: 0.11 ug/L
RT: 12.94 min Scan# 1078
Delta R.T. -0.03 min
Lab File: E2800012.D
Acq: 28 May 2014 2:19 pm

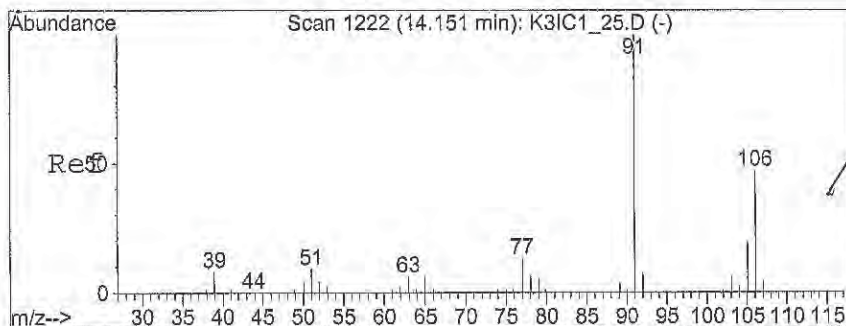
Tgt Ion: 43 Resp: 306
Ion Ratio Lower Upper
43 100
58 0.0 40.9 61.3#
100 0.0 5.5 8.3#
85 0.0 4.3 6.5#



#51
Ethylbenzene
Concen: 0.13 ug/L
RT: 14.02 min Scan# 1207
Delta R.T. -0.00 min
Lab File: E2800012.D
Acq: 28 May 2014 2:19 pm

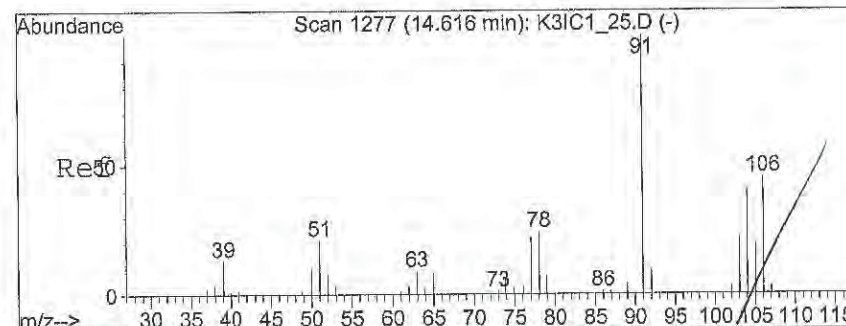
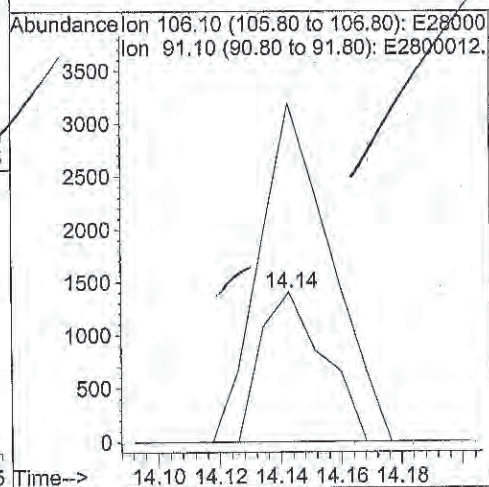
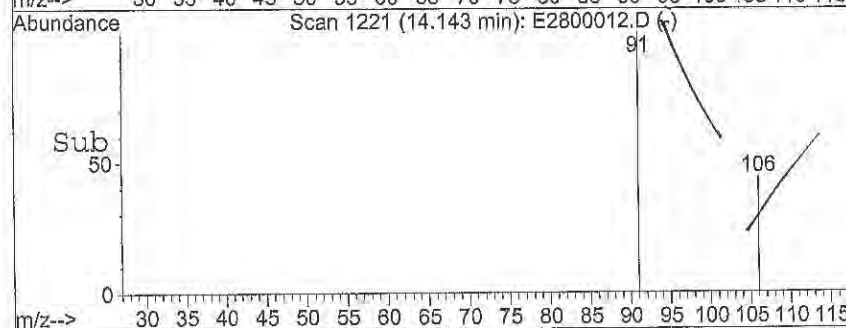
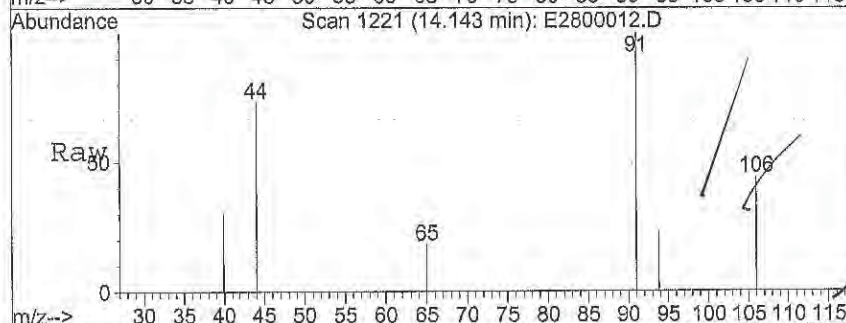
Tgt Ion: 91 Resp: 2553
Ion Ratio Lower Upper
91 100
106 0.0 23.5 35.3#





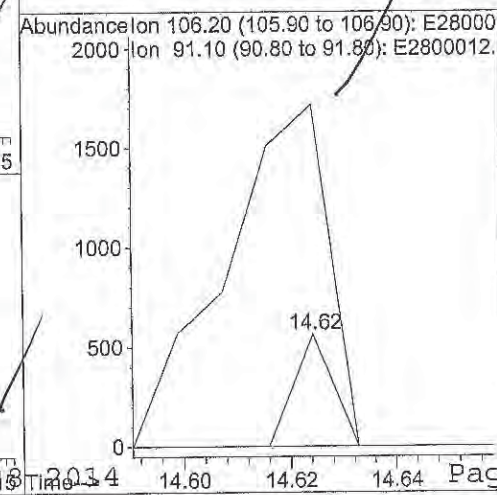
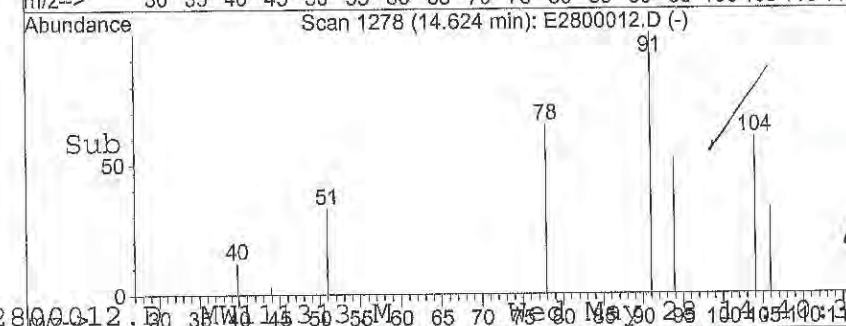
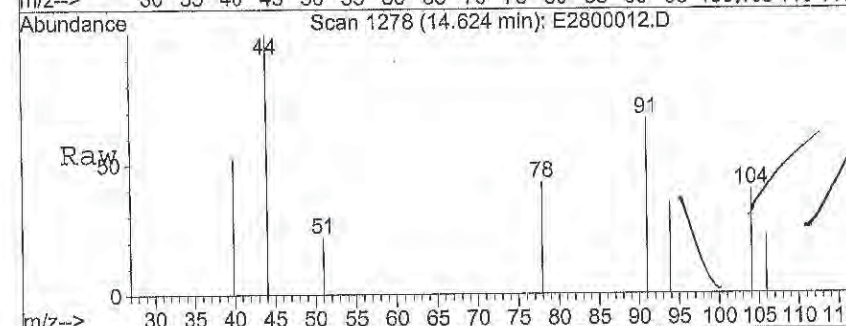
#52
m,p-Xylenes
Concen: 0.29 ug/L
RT: 14.14 min Scan# 1221
Delta R.T. -0.01 min
Lab File: E2800012.D
Acq: 28 May 2014 2:19 pm

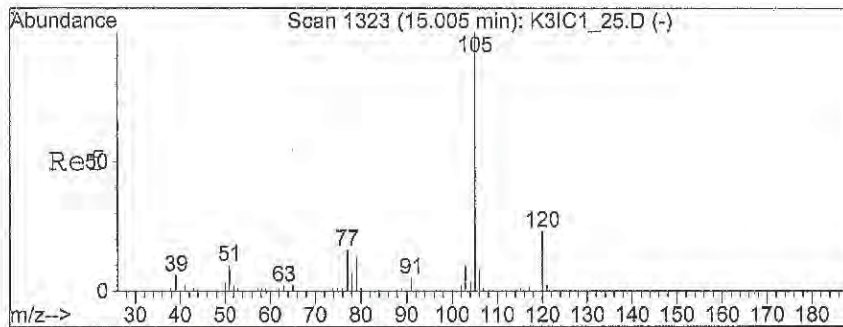
Tgt Ion:106 Resp: 2017
Ion Ratio Lower Upper
106 100
91 258.2 177.1 265.7



#53
o-Xylene
Concen: 0.04 ug/L
RT: 14.62 min Scan# 1278
Delta R.T. 0.01 min
Lab File: E2800012.D
Acq: 28 May 2014 2:19 pm

Tgt Ion:106 Resp: 285
Ion Ratio Lower Upper
106 100
91 812.6 179.0 268.6#





#56

Isopropylbenzene

Concen: 0.05 ug/L

RT: 15.22 min Scan# 1348

Delta R.T. 0.21 min

Lab File: E2800012.D

Acq: 28 May 2014 2:19 pm

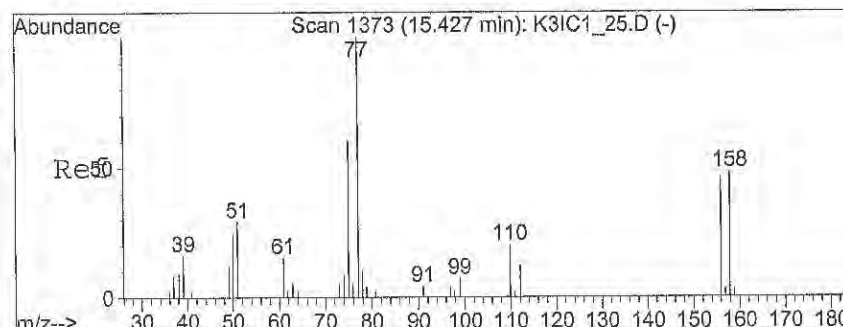
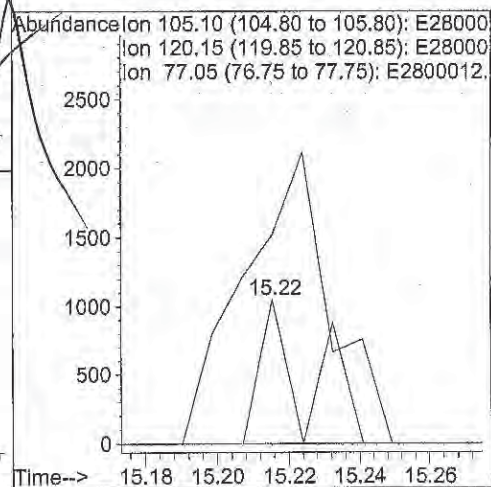
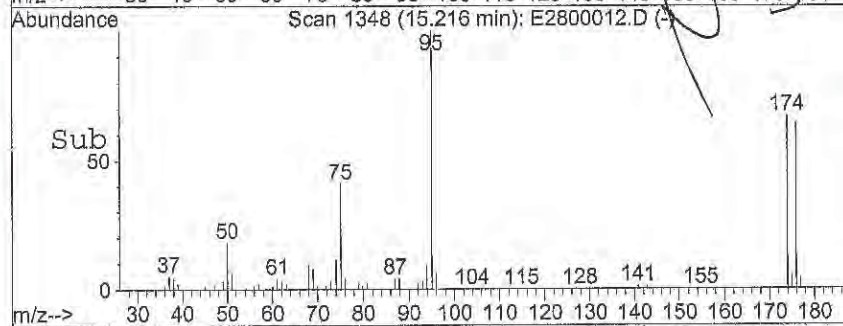
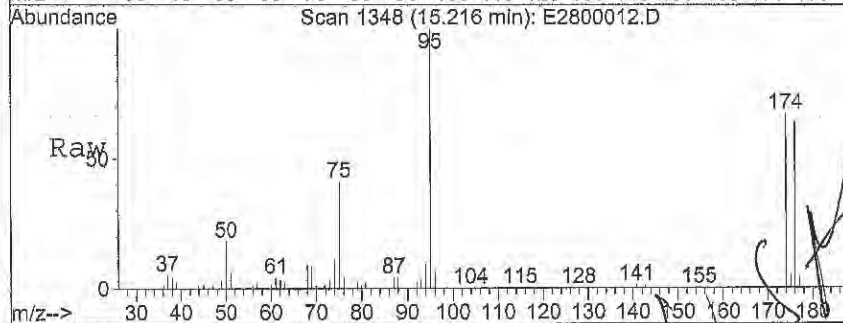
Tgt Ion: 105 Resp: 980

Ion Ratio Lower Upper

105 100

120 0.0 19.3 28.9#

77 365.2 13.1 19.7#



#57

1,2,3-Trichloropropane

Concen: 0.06 ug/L

RT: 15.31 min Scan# 1359

Delta R.T. -0.12 min

Lab File: E2800012.D

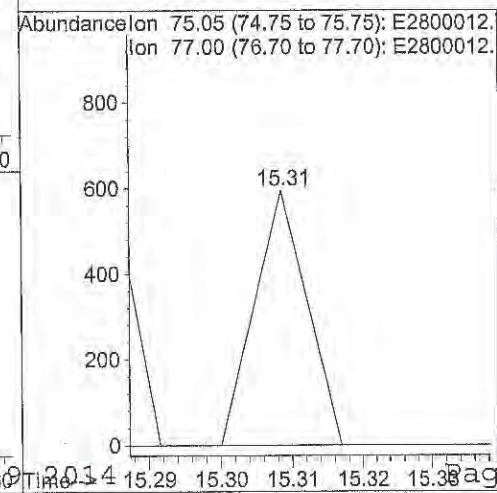
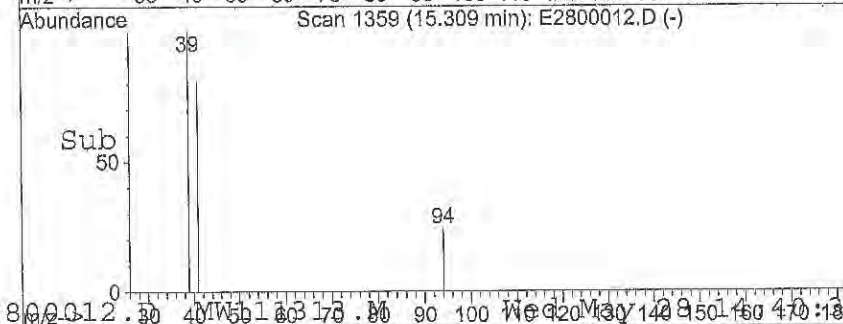
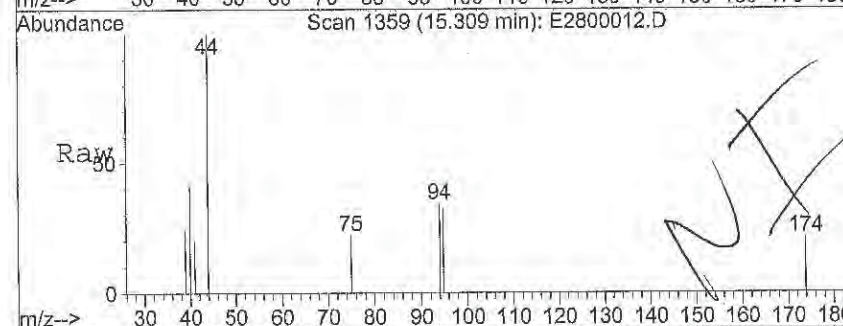
Acq: 28 May 2014 2:19 pm

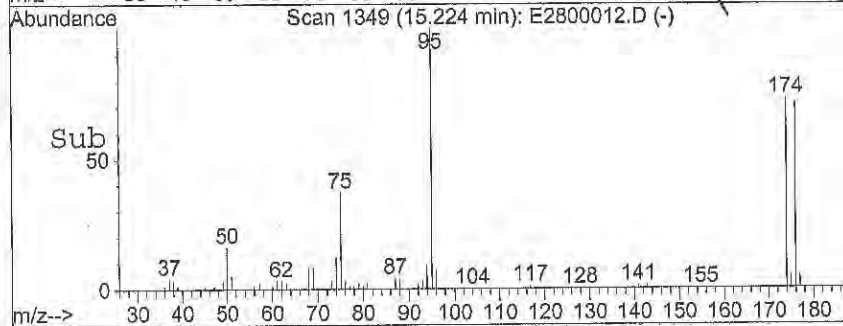
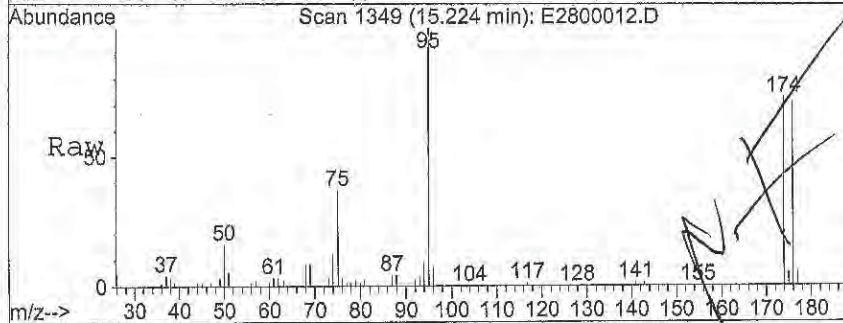
Tgt Ion: 75 Resp: 302

Ion Ratio Lower Upper

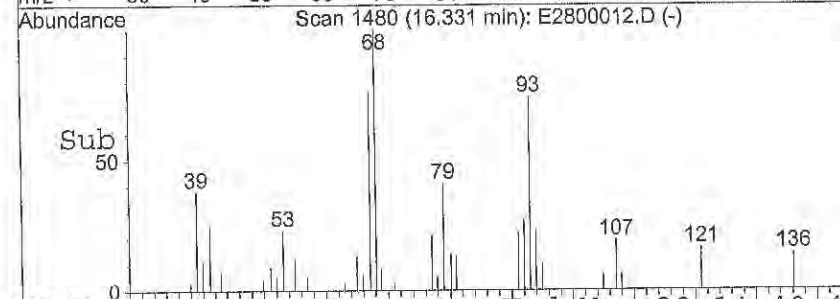
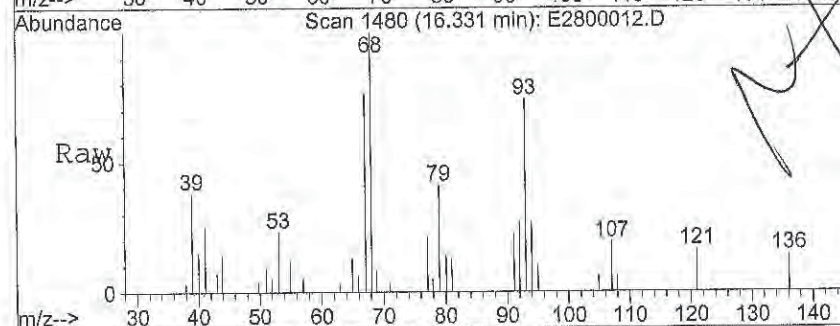
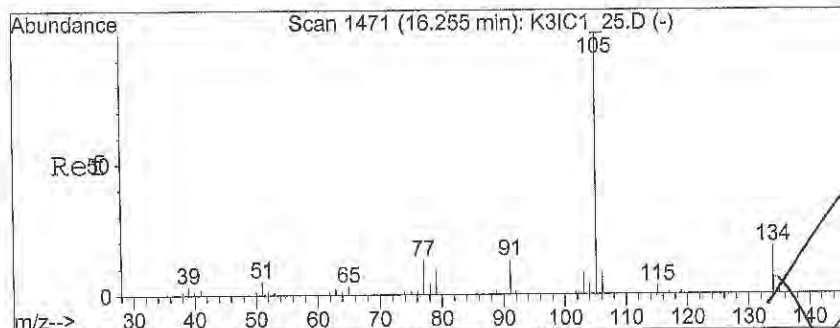
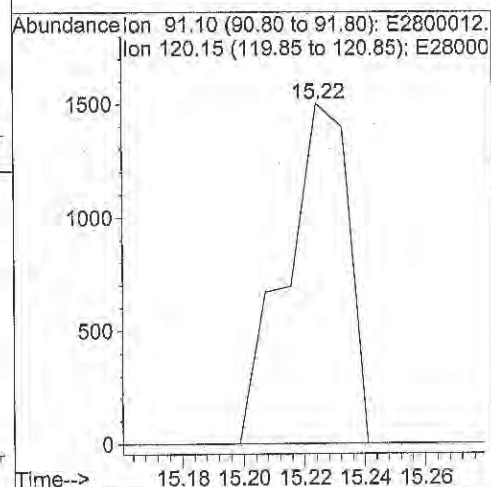
75 100

77 0.0 31.2 46.8#

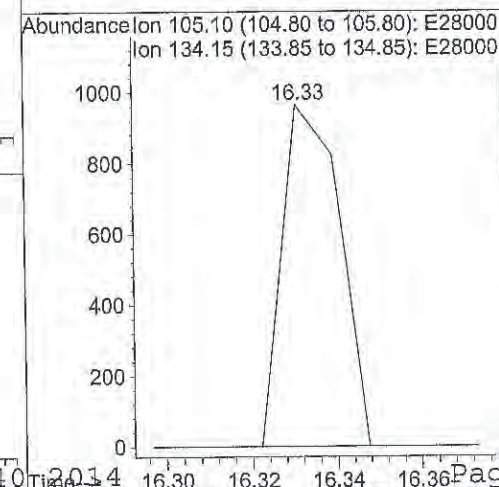


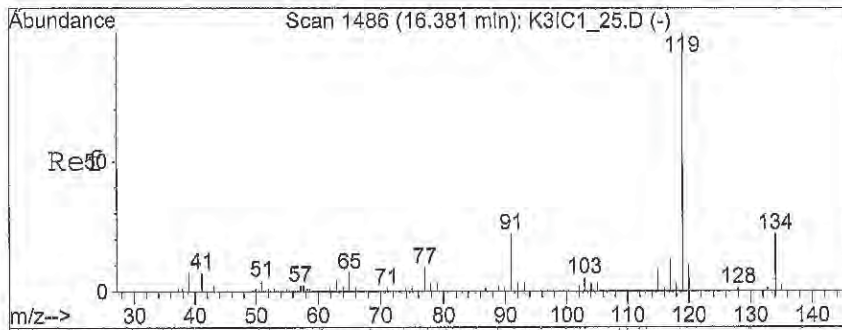


Tgt	Ion: 91	Resp:	2161
Ion	Ratio	Lower	Upper
91	100		
120	0.0	16.1	24.1#



Tgt	Ion:105	Resp:	907
Ion	Ratio	Lower	Upper
105	100		
134	0.0	13.0	19.6#





#69

p-Isopropyltoluene

Concen: 0.02 ug/L

RT: 16.38 min Scan# 1486

Delta R.T. -0.00 min

Lab File: E2800012.D

Acq: 28 May 2014 2:19 pm

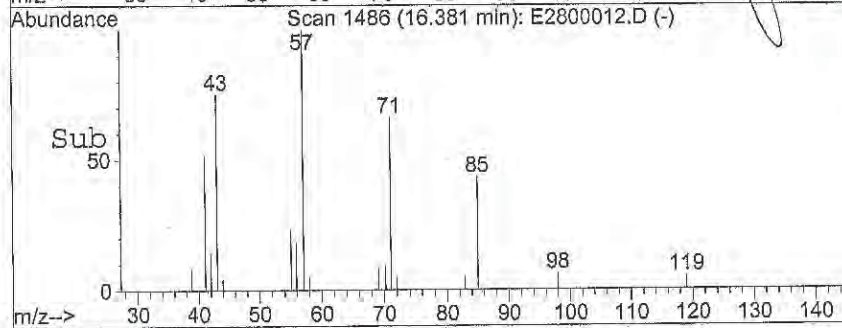
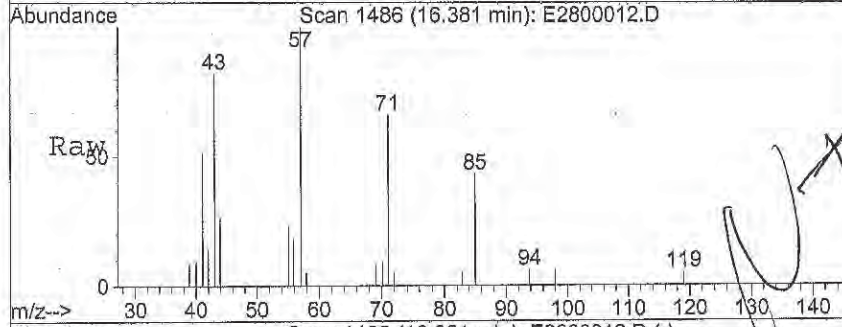
Tgt Ion:119 Resp: 294

Ion Ratio Lower Upper

119 100

134 0.0 17.4 26.2#

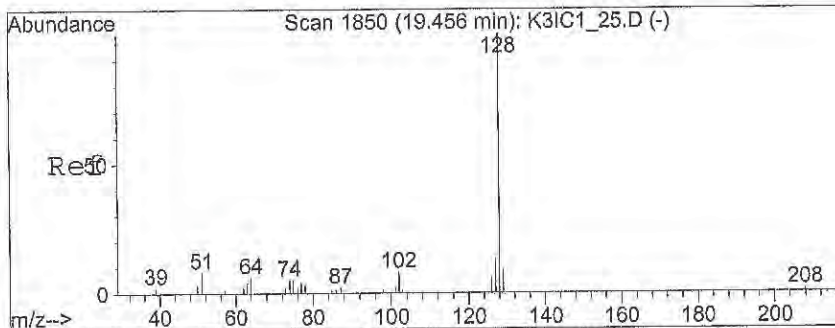
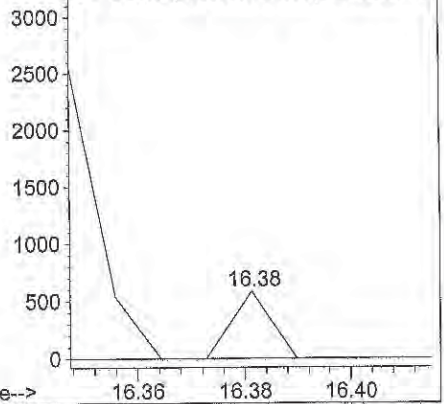
91 0.0 19.6 29.4#



Abundance on 119.15 (118.85 to 119.85): E28000

on 134.15 (133.85 to 134.85): E28000

on 91.10 (90.80 to 91.80): E2800012.



#77

Naphthalene

Concen: 0.03 ug/L

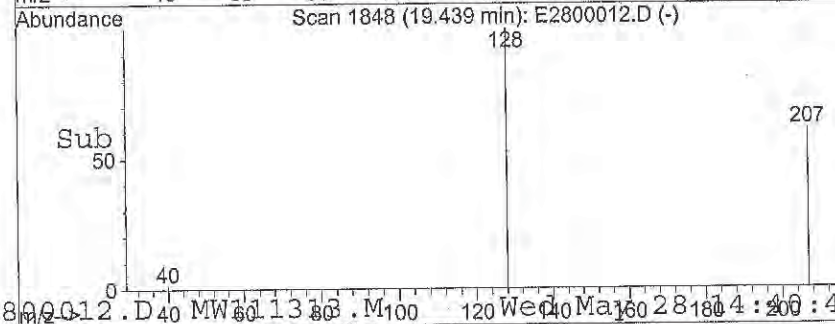
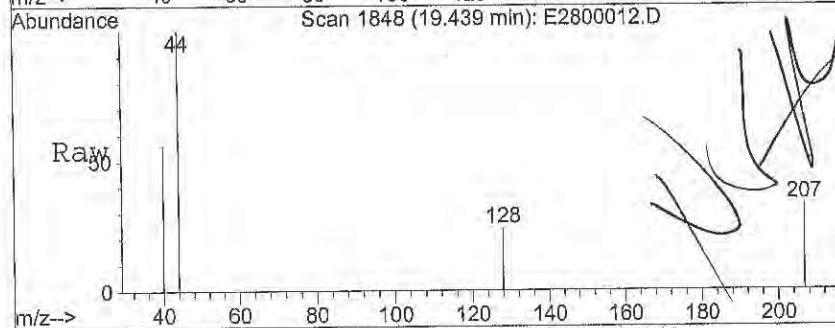
RT: 19.44 min Scan# 1848

Delta R.T. -0.02 min

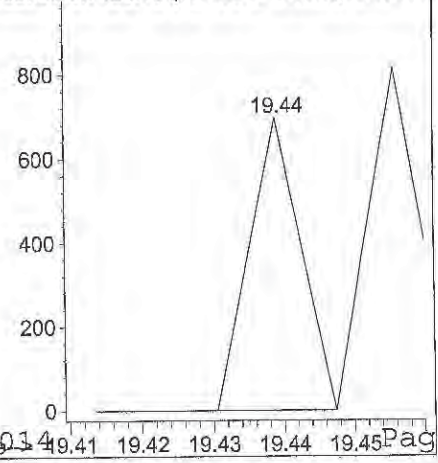
Lab File: E2800012.D

Acq: 28 May 2014 2:19 pm

Tgt Ion:128 Resp: 353



Abundance on 128.10 (127.80 to 128.80): E28000



Data File : C:\HPCHEM\1\DATA\052814L3\E2800012.D

Vial: 3

Acq On : 28 May 2014 2:19 pm

Operator: DN

Sample : 3E42801-11

Inst : GC/MS Ins

Misc : 100cc FB-052814

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 28 14:40 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1597393	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.91	117	1245718	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	690192	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	461787	11.12	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	88.96%
3) Chloroform-d (SU6)	9.18	84	717266	12.03	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	96.24%
4) Methylene Chloride-d2 (SU5)	7.06	86	417106	11.97	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	95.76%
5) 1,2-Dichloroethane-d4 (SU2)	9.89	65	448354	15.79	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	126.32%#
6) Benzene-d6 (SU7)	9.93	84	1398264	11.16	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	89.28%
8) Toluene-d8 (SU3)	12.20	98	1416371	11.98	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.84%
9) 4-Bromofluorobenzene (SU4)	15.22	95	702382	14.40	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	115.20%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E2800012.D SS072713.M

Wed May 28 14:40:00 2014

Page 1

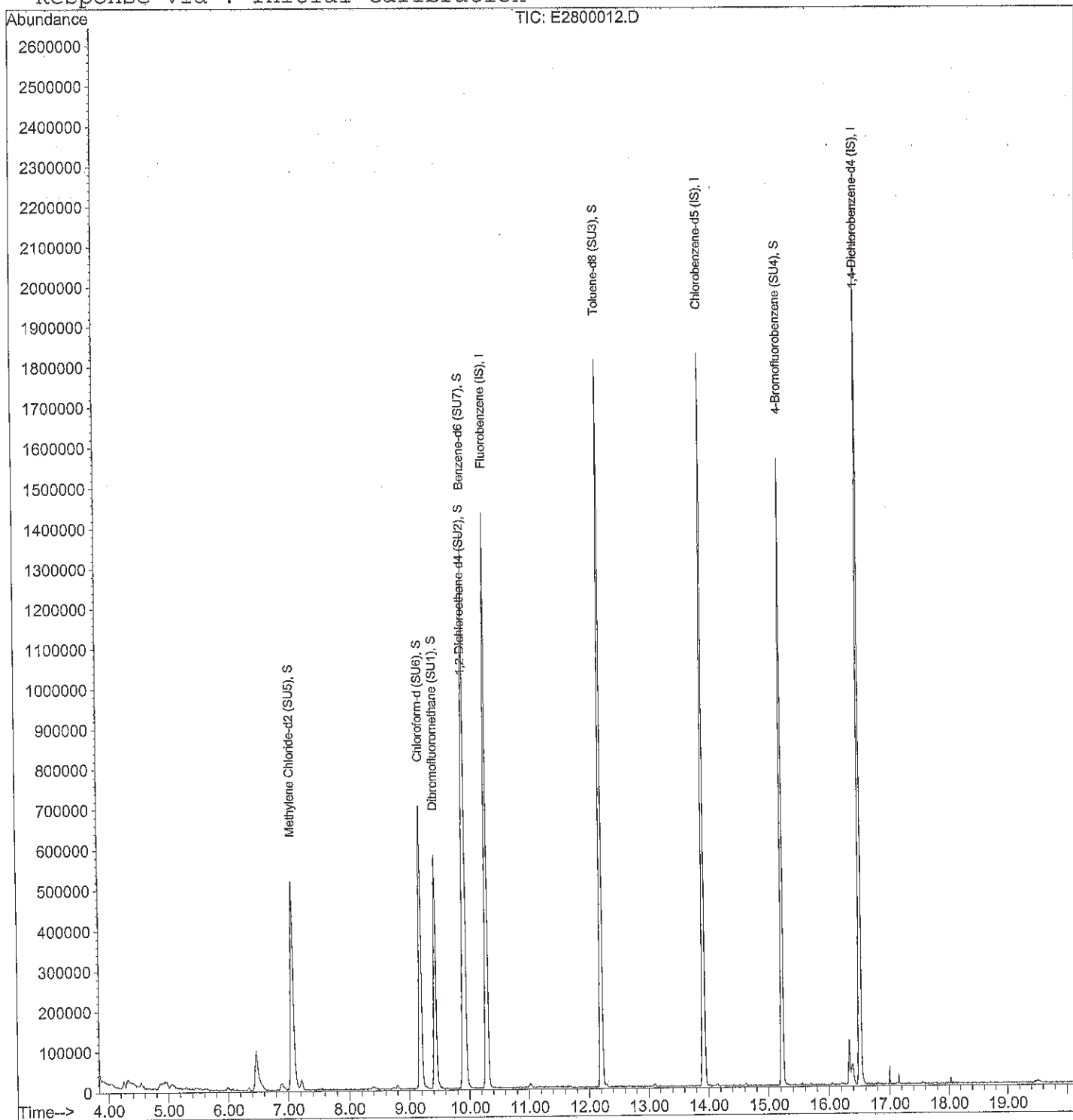
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E2800012.D
 Acq On : 28 May 2014 2:19 pm
 Sample : 3E42801-11
 Misc : 100cc FB-052814
 MS Integration Params: rteint.p
 Quant Time: May 28 14:40 19114

Vial: 3
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052814L3\E28LCS02.D

Vial: 9

Acq On : 28 May 2014 2:47 pm

Operator: DN

Sample : 34E2801-BSD1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 28 15:11 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICA 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.30	96	1584704	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1196933	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	588085	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.44	113	458056	11.59	ug/L	0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	92.72%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	431893	11.50	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	92.00%
39) Toluene-d8 (SU3)	12.21	98	1387417	12.43	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	99.44%
58) 4-Bromofluorobenzene (SU4)	15.22	95	611624	12.49	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	99.92%

Target Compounds

					Qvalue
3) (F12) Dichlorodifluorometh	4.11	85	52320	1.35 ug/L	99
4) Chloromethane	4.47	50	37196	1.28 ug/L	41
5) Vinyl Chloride	4.60	62	37116	1.33 ug/L	88
6) Bromomethane	5.16	96	21253	1.04 ug/L	85
7) Chloroethane	5.30	64	16978	1.37 ug/L	32
8) (F11) Trichlorofluorometha	5.67	101	64911	1.49 ug/L	99
9) (F113) 1,1,2-Trichloro-tri	6.37	151	39551	1.27 ug/L	99
10) 1,1-Dichloroethene	6.44	96	47142	1.26 ug/L	92
11) Acetone	6.46	58	19483	3.30 ug/L	99
12) (IPA) Leak Check Compound	6.55	45	110725	58.15 ug/L	97
13) Carbon disulfide	6.87	76	181355	1.38 ug/L	100
14) Methylene Chloride	7.12	84	56450	1.30 ug/L	92
15) (TBA) tert-Butanol	7.10	59	1169	0.43 ug/L #	77
16) (MTBE) Methyl-t-butyl ethe	7.41	73	89924	1.00 ug/L	96
17) trans-1,2-Dichloroethene	7.49	96	58020	1.36 ug/L	98
18) 1,1-Dichloroethane	8.08	63	86601	1.22 ug/L	100
19) cis-1,2-Dichloroethene	8.84	96	61259	1.24 ug/L	92
20) 2,2-Dichloropropane	8.84	77	514	0.01 ug/L #	1
21) (MEK) 2-Butanone	8.80	72	2677	0.60 ug/L #	1
22) (DIPE) Diisopropyl Ether	8.02	45	164490	1.33 ug/L	97
23) Bromochloromethane	9.17	128	22806	1.07 ug/L #	86
24) Chloroform	9.22	83	100714	1.21 ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052814L3\E28LCS02.D

Vial: 9

Acq On : 28 May 2014 2:47 pm

Operator: DN

Sample : 34E2801-BSD1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 28 15:11 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) (ETBE) 2-ethoxy 2-methyl p	8.51	59	108388	0.95	ug/L #	98
26) 1,1,1-Trichloroethane	10.28	97	75689	1.16	ug/L	94
27) (TAME) tert-Amyl methyl et	10.00	73	98598	0.99	ug/L	97
29) 1,1-Dichloropropene	9.70	75	72833	1.19	ug/L	99
30) Carbon Tetrachloride	13.90	117	79554	1.49	ug/L	96
31) Benzene	9.99	78	186516	1.25	ug/L	95
32) 1,2-Dichloroethane	10.00	62	60831	1.15	ug/L	98
33) Trichloroethene	10.75	130	60481	1.26	ug/L	97
34) 1,2-Dichloropropane	11.05	63	49158	1.38	ug/L	93
35) Dibromomethane	11.22	93	33231	1.19	ug/L	97
36) Bromodichloromethane	11.35	83	57283	1.02	ug/L	96
37) cis-1,3-Dichloropropene	11.88	75	53811	0.88	ug/L	98
40) (MIBK) 4-Methyl-2-Pentanone	12.12	43	7879	0.33	ug/L #	100
41) Toluene	12.29	91	195168	1.20	ug/L	99
42) trans-1,3-Dichloropropene	12.51	75	40943	0.76	ug/L #	86
43) 1,1,2-Trichloroethane	12.76	83	35817	1.22	ug/L	89
44) Tetrachloroethene	12.94	164	63755	1.11	ug/L	97
45) 1,3-Dichloropropane	12.97	76	64173	1.15	ug/L	99
46) 2-Hexanone	12.97	43	23830	0.91	ug/L #	92
47) Dibromochloromethane	13.25	129	44284	1.05	ug/L #	96
48) 1,2-Dibromoethane	13.43	107	46188	1.21	ug/L	99
49) Chlorobenzene	13.96	112	139849	1.27	ug/L	98
50) 1,1,1,2-Tetrachloroethane	14.02	131	41863	1.07	ug/L	94
51) Ethylbenzene	14.02	91	228073	1.23	ug/L	97
52) m,p-Xylenes	14.15	106	171264	2.60	ug/L	94
53) o-Xylene	14.62	106	80023	1.23	ug/L	99
54) Styrene	14.63	104	133472	1.41	ug/L	98
55) Bromoform	14.91	173	23986	1.01	ug/L #	93
56) Isopropylbenzene	15.00	105	222301	1.24	ug/L	98
57) 1,2,3-Trichloropropane	15.42	75	53400	1.09	ug/L #	1
60) 1,1,2,2-Tetrachloroethane	15.34	83	49020	1.16	ug/L	97
61) Bromobenzene	15.43	156	57038	1.23	ug/L	92
62) n-Propylbenzene	15.46	91	294304	1.24	ug/L	99
63) 2-Chlorotoluene	15.61	91	182181	1.24	ug/L	98
64) 1,3,5-Trimethylbenzene	15.63	105	178341	1.22	ug/L	100
65) 4-Chlorotoluene	15.73	91	173912	1.29	ug/L	98
66) tert-Butylbenzene	16.02	119	153236	1.23	ug/L	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052814L3\E28LCS02.D

Vial: 9

Acq On : 28 May 2014 2:47 pm

Operator: DN

Sample : 34E2801-BSD1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 28 15:11 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 1,2,4-Trimethylbenzene	16.06	105	186994	1.22	ug/L	92
68) sec-Butylbenzene	16.25	105	250292	1.27	ug/L	99
69) p-Isopropyltoluene	16.38	119	194879	1.21	ug/L	97
70) 1,3-Dichlorobenzene	16.45	146	107562	1.24	ug/L	97
71) 1,4-Dichlorobenzene	16.54	146	112062	1.29	ug/L	95
72) n-Butylbenzene	16.84	91	209350	1.24	ug/L	99
73) 1,2-Dichlorobenzene	16.99	146	103508	1.34	ug/L	98
74) 1,2-Dibromo-3-chloropropan	17.93	75	6625	1.05	ug/L	93
75) 1,2,4-Trichlorobenzene	19.03	180	62552	1.19	ug/L	99
76) Hexachlorobutadiene	19.20	225	30675	1.30	ug/L	98
77) Naphthalene	19.45	128	119145	1.03	ug/L	100
78) Hexachloroethane	17.29	201	19233	1.13	ug/L	92
79) 1,2,3-Trichlorobenzene	19.83	180	51866	1.04	ug/L	95

(#) = qualifier out of range (m) = manual integration

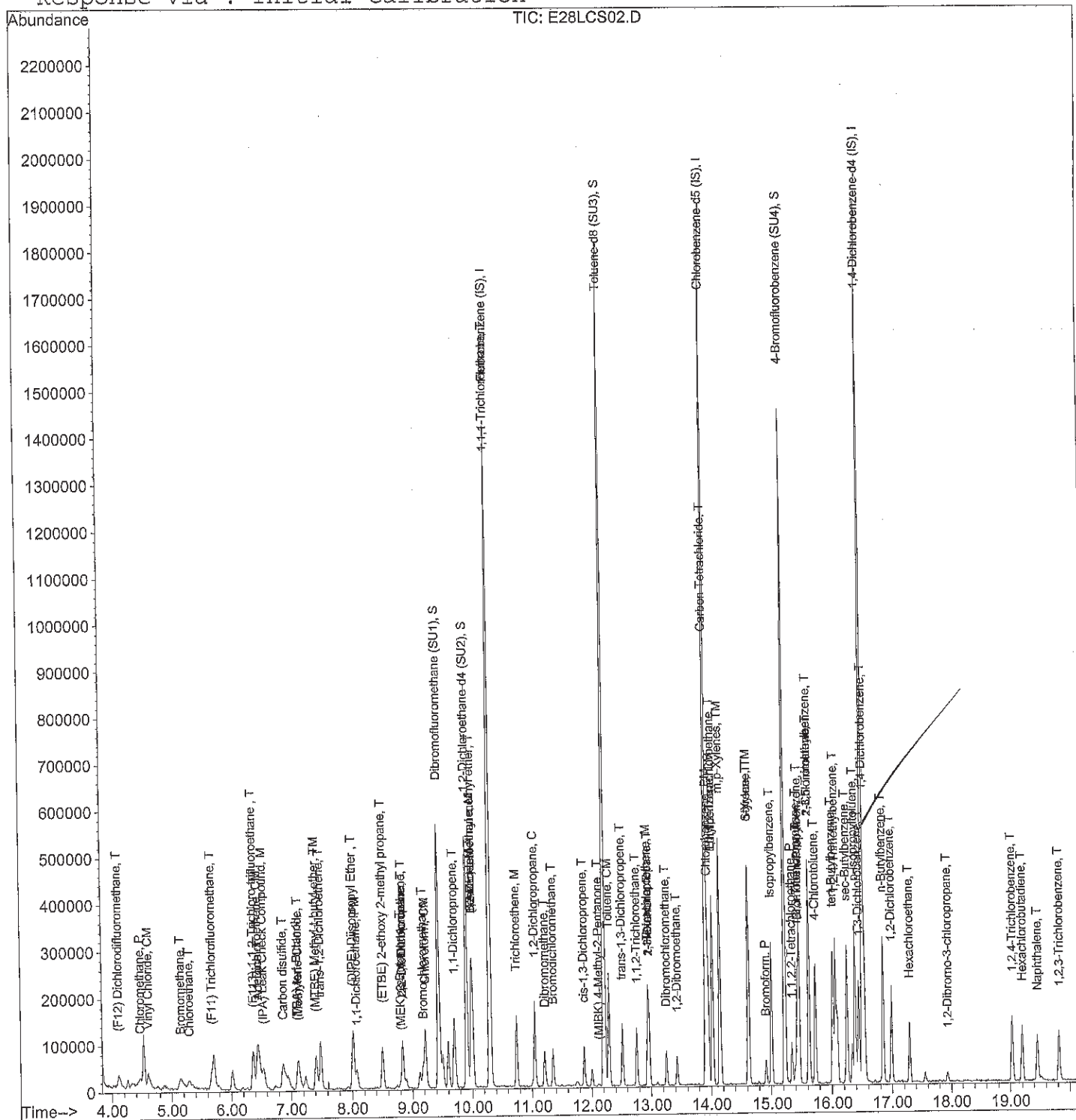
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052814L3\E28LCS02.D
 Acq On : 28 May 2014 2:47 pm
 Sample : 34E2801-BSD1
 Misc : 20cc 1.25/2.5/12.5 ug/L LCS
 MS Integration Params: rteint.p
 Quant Time: May 28 15:11 19114

Vial: 9
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: MW111313.RES

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration



ENVIRONMENTAL SUPPORT TECHNOLOGIES

16510 Aston St.
Tel (949) 679-9500



Irvine, CA 92606
Fax (949) 679-9501

www.est-inc.com

**SOIL GAS SURVEY
SANTA SUSANA FIELD LABORATORY:
DEPARTMENT OF ENERGY
5800 WOOLSEY CANYON ROAD
CANOGA PARK, CA**

LEVEL IV DATA PACKAGE

**MWH AMERICAS
2121 NORTH CALIFORNIA BLVD.
SUITE 600
WALNUT CREEK, CA**

**EST2754
May 29, 2014**

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CHAIN-OF-CUSTODY



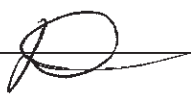
CHAIN-OF-CUSTODY RECORD

Environmental Support Technologies

16510 Aston St., Irvine, CA 92606 • Tel (949) 679-9500 • Fax (949) 679-9501

Client: <u>MWH Americas</u>	Sampler Name: <u>Ashley Flores</u>	Page: 1 of 1
Address: <u>250 North Madison Avenue</u>	EST Project#: <u>EST2754</u>	Custody Seals: _____
<u>Pasadena, Ca</u>	Site Location: <u>SSFL</u>	
Project Manager: <u>Sarah Von Raesfield</u>	Phone: ()	Email: _____

Turnaround Time: (Check one)	Sample Receipt					Purge Volume (ml)	Vacuum (inches of H ₂ O)	8260B VOC's 0.02 RL							Special Instructions
	Intact:	Yes: X	No:												
	Normal:	Yes:	No: X	N/A											
Rush: X	Custody Seals:	Yes:	No: X												
N/A (Received on Site):															
Sample Name	Sample Matrix	Container Type	# of Container	Sampling		Preservative Type									
				Date	Time										
Equipment Blank	Air	Glass Bulb	1	5/29/2014	800	Surr			X						Bulb # 1
SVL-544-SA5D-SV-10.0-11.0	Air	Glass Bulb	1	5/29/2014	750	Surr			X						Bulb # 9
SVL-844-SA5D-SV-10.0-11.0	Air	Glass Bulb	1	5/29/2014	750	Surr			X						Bulb # 6
SVL-530-SA5C-SV-6.5-7.5	Air	Glass Bulb	1	5/29/2014	843	Surr			X						Bulb # 5
SVL-519-SA5D-SV-8.5-9.5	Air	Glass Bulb	1	5/29/2014	930	Surr			X						Bulb # 8
SVL-526-SA5D-SV-7.5-8.5	Air	Glass Bulb	1	5/29/2014	1012	Surr			X						Bulb # 3
SVL-530-SA5D-SV-5.0-6.0	Air	Glass Bulb	1	5/29/2014	1046	Surr			X						Bulb # 13
SVL-531-SA5D-SV-5.0-6.0	Air	Glass Bulb	1	5/29/2014	1120	Surr			X						Bulb # 7
SVL-539-SA5D-SV-4.5-5.5	Air	Glass Bulb	1	5/29/2014	1229	Surr			X						Bulb # 12
SVL-539-SA5D-SV-8.5-9.5	Air	Glass Bulb	1	5/29/2014	1300	Surr			X						Bulb # 10
SVL-572-SA5C-SV-8.5-9.5	Air	Glass Bulb	1	5/29/2014	1339	Surr			X						Bulb # 11
FB-0529-14	Air	Glass Bulb	1	5/29/2014	1359	Surr			X						Bulb # 2

Relinquished by: (Signature) 	Date/Time: <u>05/29/14</u>	Received by: _____	Date/Time: _____
Relinquished by: (Signature)	Date/Time: _____	Received by: _____	Date/Time: _____

**SAMPLE RESULTS WITH ANALYSIS AND
EXTRACTIONS PREPARATION DATES**



June 0q, 2014

Sarah Von Raesfield
MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107
RE: Santa Susana Field Laboratory, Canoga Park

Enclosed are the results of analyses for soil gas samples received by Environmental Support Technologies laboratory on 05/29/14 15:13. The analyses were performed according to the prescribed method as outlined by EPA 32w08. A shut in test was performed, leak test was performed, equipment blank was run, and selected purge volume was qPV. If you have any questions concerning this report, please feel free to contact Project Manager.

Sincerely,

Ashley Flores

Ashley Flores
Project Manager

Environmental Support Technologies laboratories are certified by the California Department of Health Services (CDHS),
Environmental Laboratory Accreditation Program (ELAP) No's. 2772, 277q, and 27w7.

1w510 Aston Street, Irvine, California 92w0w
Telephone: (949) w79-9500 Fax: (949) w79-9501



MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2754
Project Manager: Sarah Von Raesfield

Reported:
00-Jun-14 14:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Analyzed
Equipment 8 tank	qE42901-01	Air	29-May-14 03:00	29-May-14 03:11
SVL-544-SA5D-SV-10.0-11.0	qE42901-02	Air	29-May-14 07:50	29-May-14 03:4w
SVL-344-SA5D-SV-10.0-11.0	qE42901-0q	Air	29-May-14 07:50	29-May-14 09:44
SVL-5q0-SA5C-SV-w5-7.5	qE42901-04	Air	29-May-14 03:4q	29-May-14 10:1q
SVL-519-SA5D-SV-3.9-9.5	qE42901-05	Air	29-May-14 09:q0	29-May-14 10:44
SVL-52w-SA5D-SV-7.5-3.5	qE42901-0w	Air	29-May-14 10:12	29-May-14 11:1q
SVL-5q0-SA5D-SV-5.0-w0	qE42901-07	Air	29-May-14 10:4w	29-May-14 11:42
SVL-5q1-SA5D-SV-5.0-w0	qE42901-03	Air	29-May-14 11:20	29-May-14 12:11
SVL-5q9-SA5D-SV-4.5-5.5	qE42901-09	Air	29-May-14 11:20	29-May-14 12:57
SVL-5q9-SA5D-SV-3.5-9.5	qE42901-10	Air	29-May-14 1q:00	29-May-14 1q:2w
SVL-572-SA5C-SV-3.5-9.5	qE42901-11	Air	29-May-14 1q:q9	29-May-14 1q:59
F8-052914	qE42901-12	Air	29-May-14 1q:59	29-May-14 14:23

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2754
Project Manager: Sarah Von Raesfeld

Reported:
0q-Jun-14 14:55

Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equipment Blank (3E42701-01) Air Sampled: 05/27/14 09:00 Analyzed: 05/27/14 09:11									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q4E2901	05/29/14	05/29/14	EPA 32w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	ND	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>guro: ateD8 ibromofluoromethane</i>		90.1 %	75-2S5		"	"	"	"	
<i>guro: ateDToluene-dB</i>		94.4 %	75-2S5		"	"	"	"	
<i>guro: ateD0-Cromofluorobenzene</i>		264 %	75-2S5		"	"	"	"	
<i>guro: ateDCenzene-d4</i>		96.4 %	76-206		"	"	"	"	
<i>guro: ateDMhloroform-d</i>		266 %	76-206		"	"	"	"	
<i>guro: ateD3 ethylene chloride-dS</i>		90.9 %	76-206		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2754
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-14 14:55

Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-544-SA5D-SV-10.0-11.0 (3E42701-02) Air Sampled: 05/27/14 06:50 Analyzed: 05/27/14 09:48									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q4E2901	05/29/14	05/29/14	EPA 32w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	0.015	0.020	"	"	"	"	"	"	J
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	0.024	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	0.080	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.037	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>guro: ateD8 ibromofluoromethane</i>		96.1 %		75-2S5	"	"	"	"	
<i>guro: ateDToluene-dB</i>		94.4 %		75-2S5	"	"	"	"	
<i>guro: ateD0-Cromofluorobenzene</i>		26B %		75-2S5	"	"	"	"	
<i>guro: ateDCenzene-d4</i>		B7.6 %		76-206	"	"	"	"	
<i>guro: ateDMhloroform-d</i>		90.S %		76-206	"	"	"	"	
<i>guro: ateD3 ethylene chloride-dS</i>		B9.4 %		76-206	"	"	"	"	

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MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2754
Project Manager: Sarah Von Raesfeld

Reported:
0q-Jun-14 14:55

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-944-SA5D-SV-10.0-11.0 (3E42701-03) Air Sampled: 05/27/14 06:50 Analyzed: 05/27/14 07:44									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q4E2901	05/29/14	05/29/14	EPA 32w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	0.013	0.020	"	"	"	"	"	"	J
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	0.013	0.020	"	"	"	"	"	"	J
meta- and para-Xylenes	0.046	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.034	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>guro: ateD8 ibromofluoromethane</i>		92.9 %		75-2S5	"	"	"	"	
<i>guro: ateDToluene-dB</i>		95.5 %		75-2S5	"	"	"	"	
<i>guro: ateD0-Cromofluorobenzene</i>		226 %		75-2S5	"	"	"	"	
<i>guro: ateDCenzene-d4</i>		BB.0 %		76-206	"	"	"	"	
<i>guro: ateDMhloroform-d</i>		90.0 %		76-206	"	"	"	"	
<i>guro: ateD3 ethylene chloride-dS</i>		91.2 %		76-206	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2754
Project Manager: Sarah Von Raesfield

Reported:
00-Jun-14 14:55

Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-530-SA5C-SV-8.5-6.5 (3E42701-04) Air Sampled: 05/27/14 09:43 Analyzed: 05/27/14 10:13									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q4E2901	05/29/14	05/29/14	EPA 32w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 benzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	ND	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>guro: ated8 ibromofluoromethane</i>		96.2 %	75-2S5		"	"	"	"	
<i>guro: atedToluene-d8</i>		95.8 %	75-2S5		"	"	"	"	
<i>guro: atedD0-Cromofluorobenzene</i>		222 %	75-2S5		"	"	"	"	
<i>guro: atedDCenene-d4</i>		96.6 %	76-206		"	"	"	"	
<i>guro: atedMhloroform-d</i>		97.5 %	76-206		"	"	"	"	
<i>guro: atedB3 ethylene chloride-d5</i>		90.2 %	76-206		"	"	"	"	

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MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2754
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-14 14:55

Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-517-SA5D-SV-9.7-7.5 (3E42701-05) Air Sampled: 05/27/14 07:30 Analyzed: 05/27/14 10:44									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q4E2901	05/29/14	05/29/14	EPA 32w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	3.0	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	0.0090	0.020	"	"	"	"	"	"	J
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	0.026	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.030	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
gurro: ateD8 ibromofluoromethane		91.6 %	75-2S5		"	"	"	"	
gurro: ateDToluene-dB		91.7 %	75-2S5		"	"	"	"	
gurro: ateD0-Cromofluorobenzene		222 %	75-2S5		"	"	"	"	
gurro: ateDCenzene-d4		95.2 %	76-206		"	"	"	"	
gurro: ateDMhloroform-d		95.9 %	76-206		"	"	"	"	
gurro: ateD3 ethylene chloride-dS		90.2 %	76-206		"	"	"	"	

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00-Jun-14 14:55

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-528-SA5D-SV-6.5-9.5 (3E42701-08) Air Sampled: 05/27/14 10:12 Analyzed: 05/27/14 11:13									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q4E2901	05/29/14	05/29/14	EPA 32w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 benzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	0.011	0.020	"	"	"	"	"	"	J
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	0.010	0.020	"	"	"	"	"	"	J
meta- and para-Xylenes	0.031	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.044	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>guro: ated8 ibromofluoromethane</i>		96.5 %		75-2S5	"	"	"	"	
<i>guro: atedToluene-d8</i>		91.4 %		75-2S5	"	"	"	"	
<i>guro: atedD0-Cromofluorobenzene</i>		222 %		75-2S5	"	"	"	"	
<i>guro: atedDCenene-d4</i>		95.5 %		76-206	"	"	"	"	
<i>guro: atedMhloroform-d</i>		97.1 %		76-206	"	"	"	"	
<i>guro: atedB3 ethylene chloride-d5</i>		95.6 %		76-206	"	"	"	"	

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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-530-SA5D-SV-5.0-8.0 (3E42701-06) Air Sampled: 05/27/14 10:48 Analyzed: 05/27/14 11:42									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q4E2901	05/29/14	05/29/14	EPA 32w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	ND	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>guro: ateD8 ibromofluoromethane</i>		<i>BB.5 %</i>	<i>75-2S5</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: ateDToluene-dB</i>		<i>90.6 %</i>	<i>75-2S5</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: ateD0-Cromofluorobenzene</i>		<i>267 %</i>	<i>75-2S5</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: ateDCenzene-d4</i>		<i>BB.9 %</i>	<i>76-206</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: ateDMhloroform-d</i>		<i>94.4 %</i>	<i>76-206</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: ateD3 ethylene chloride-dS</i>		<i>91.7 %</i>	<i>76-206</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Project Manager: Sarah Von Raesfield

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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-531-SA5D-SV-5.0-8.0 (3E42701-09) Air Sampled: 05/27/14 11:20 Analyzed: 05/27/14 12:11									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q4E2901	05/29/14	05/29/14	EPA 32w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 benzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	ND	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>guro: ated8 ibromofluoromethane</i>		<i>B9.7 %</i>	<i>75-2S5</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: atedToluene-d8</i>		<i>9S.8 %</i>	<i>75-2S5</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: atedD0-Cromofluorobenzene</i>		<i>267 %</i>	<i>75-2S5</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: atedDCenzene-d4</i>		<i>BB.5 %</i>	<i>76-206</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: atedMhloroform-d</i>		<i>91.2 %</i>	<i>76-206</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: atedB3 ethylene chloride-d5</i>		<i>9S.0 %</i>	<i>76-206</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
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Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-14 14:55

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-537-SA5D-SV-4.5-5.5 (3E42701-07) Air Sampled: 05/27/14 11:20 Analyzed: 05/27/14 12:56									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q4E2901	05/29/14	05/29/14	EPA 32w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.0049	0.020	"	"	"	"	"	"	J
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>gurro: ateD8 ibromofluoromethane</i>		<i>91.8 %</i>	<i>75-2S5</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>gurro: ateDToluene-dB</i>		<i>91.0 %</i>	<i>75-2S5</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>gurro: ateD0-Cromofluorobenzene</i>		<i>264 %</i>	<i>75-2S5</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>gurro: ateDCenzene-d4</i>		<i>90.5 %</i>	<i>76-206</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>gurro: ateDMhloroform-d</i>		<i>262 %</i>	<i>76-206</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>gurro: ateD3 ethylene chloride-dS</i>		<i>99.5 %</i>	<i>76-206</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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0q-Jun-14 14:55

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-537-SA5D-SV-9.5-7.5 (3E42701-10) Air Sampled: 05/27/14 13:00 Analyzed: 05/27/14 13:28									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q4E2901	05/29/14	05/29/14	EPA 32w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	0.0052	0.020	"	"	"	"	"	"	J
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	0.014	0.020	"	"	"	"	"	"	J
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.0062	0.020	"	"	"	"	"	"	J
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>guro: ateD8 ibromofluoromethane</i>		<i>B5.0 %</i>		<i>75-2S5</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: ateDToluene-dB</i>		<i>99.6 %</i>		<i>75-2S5</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: ateD0-Cromofluorobenzene</i>		<i>261 %</i>		<i>75-2S5</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: ateDCenzene-d4</i>		<i>B4.2 %</i>		<i>76-206</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: ateDMhloroform-d</i>		<i>B7.5 %</i>		<i>76-206</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>guro: ateD3 ethylene chloride-dS</i>		<i>B7.4 %</i>		<i>76-206</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Project Number: EST2754
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-14 14:55

Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SVL-562-SA5C-SV-9.5-7.5 (3E42701-11) Air Sampled: 05/27/14 13:37 Analyzed: 05/27/14 13:57									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q4E2901	05/29/14	05/29/14	EPA 32w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 enzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	0.011	0.020	"	"	"	"	"	"	J
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
<i>gurro: ateD8 ibromofluoromethane</i>		96.5 %	75-2S5		"	"	"	"	
<i>gurro: ateDToluene-dB</i>		9S.B %	75-2S5		"	"	"	"	
<i>gurro: ateD0-Cromofluorobenzene</i>		264 %	75-2S5		"	"	"	"	
<i>gurro: ateDCenzene-d4</i>		92.S %	76-206		"	"	"	"	
<i>gurro: ateDMhloroform-d</i>		97.1 %	76-206		"	"	"	"	
<i>gurro: ateD3 ethylene chloride-dS</i>		97.0 %	76-206		"	"	"	"	

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MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2754
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-14 14:55

Volatile Organic Compounds Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-052714 (3E42701-12) Air Sampled: 05/27/14 13:57 Analyzed: 05/27/14 14:29									
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l	1	q4E2901	05/29/14	05/29/14	EPA 32w08	
1,1,1-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.020	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.020	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.020	"	"	"	"	"	"	
8 benzene	ND	0.020	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.020	"	"	"	"	"	"	
Chloroethane	ND	0.020	"	"	"	"	"	"	
Chloroform	ND	0.020	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.020	"	"	"	"	"	"	
Ethylbenzene	ND	0.020	"	"	"	"	"	"	
Methylene Chloride	ND	0.020	"	"	"	"	"	"	
ortho-Xylene	ND	0.020	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.020	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.020	"	"	"	"	"	"	
Tetrachloroethene	ND	0.020	"	"	"	"	"	"	
Toluene	ND	0.020	"	"	"	"	"	"	
Trichloroethene	ND	0.020	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.020	"	"	"	"	"	"	
Vinyl Chloride	ND	0.020	"	"	"	"	"	"	
guro: ateD8 ibromofluoromethane		92.0 %	75-2S5		"	"	"	"	
guro: ateDToluene-dB		98.7 %	75-2S5		"	"	"	"	
guro: ateD0-Cromofluorobenzene		264 %	75-2S5		"	"	"	"	
guro: ateDCenzene-d4		91.8 %	76-206		"	"	"	"	
guro: ateDMhloroform-d		99.0 %	76-206		"	"	"	"	
guro: ateD3 ethylene chloride-dS		97.2 %	76-206		"	"	"	"	

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MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2754
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-14 14:55

Volatile Organic Compounds - Quality Control Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 34E2701 - Volatiles									
Blank (34E2701-BLK1)				Prepared & Analyzed: 05/29/14					
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l						
1,1,1-Trichloroethane	ND	0.020	"						
1,1,2,2-Tetrachloroethane	ND	0.020	"						
1,1,2-Trichloro-trifluoroethane	ND	0.020	"						
1,1,2-Trichloroethane	ND	0.020	"						
1,1-Dichloroethane	ND	0.020	"						
1,1-Dichloroethene	ND	0.020	"						
1,2-Dichloroethane	ND	0.020	"						
8 enzene	ND	0.020	"						
cis-1,2-Dichloroethene	ND	0.020	"						
Carbon tetrachloride	ND	0.020	"						
Chloroethane	ND	0.020	"						
Chloroform	ND	0.020	"						
Dichlorodifluoromethane	ND	0.020	"						
Ethylbenzene	ND	0.020	"						
Methylene Chloride	ND	0.020	"						
ortho-Xylene	ND	0.020	"						
meta- and para-Xylenes	ND	0.020	"						
trans-1,2-Dichloroethene	ND	0.020	"						
Tetrachloroethene	ND	0.020	"						
Toluene	0.0113	0.020	"						J
Trichloroethene	ND	0.020	"						
Trichlorofluoromethane	ND	0.020	"						
Vinyl Chloride	ND	0.020	"						
gurro: ateD8 ibromo fluoromethane	S.54		"	S.56		96.5	75-2S5		
gurro: ateDToluene-dB	S.19		"	S.56		95.B	75-2S5		
gurro: ateD0-Cromo fluorobenzene	S.71		"	S.56		269	75-2S5		
gurro: ateDCenzene-d4	S.6B		"	S.56		Bl.S	76-206		
gurro: ateDMhloroform-d	S.1S		"	S.56		9S.9	76-206		
gurro: ateD3 ethylene chloride-dS	S.20		"	S.56		B5.B	76-206		

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250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2754
Project Manager: Sarah Von Raesfeld

Reported:
0q-Jun-14 14:55

Volatile Organic Compounds - Quality Control Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 34E2701 - Volatiles

LCS (34E2701-BS1)

Prepared & Analyzed: 05/29/14

1,1,1,2-Tetrachloroethane	1.21	0.020	ug/l	1.25		9w3	75-1qw			
1,1,1-Trichloroethane	1.15	0.020	"	1.25		92.0	7q-1q4			
1,1,2,2-Tetrachloroethane	1.w6	0.020	"	1.25		1q2	5w-149			
1,1,2-Trichloro-trifluoroethane	1.qq	0.020	"	1.25		10w	3q-125			
1,1,2-Trichloroethane	1.47	0.020	"	1.25		113	w7-1q7			
1,1-Dichloroethane	1.09	0.020	"	1.25		37.2	30-121			
1,1-Dichloroethene	1.4q	0.020	"	1.25		114	7q-1q7			
1,2-Dichloroethane	1.27	0.020	"	1.25		102	75-1q1			
8 enzene	1.27	0.020	"	1.25		102	79-113			
cis-1,2-Dichloroethene	1.2q	0.020	"	1.25		93.4	35-11w			
Carbon tetrachloride	1.1q	0.020	"	1.25		90.4	74-14q			
Chloroethane	1.2q	0.020	"	1.25		93.4	w0-1q7			
Chloroform	1.20	0.020	"	1.25		9w0	32-140			
Dichlorodifluoromethane	1.4q	0.020	"	1.25		114	47-129			
Ethylbenzene	1.q0	0.020	"	1.25		104	3q-125			
Methylene Chloride	1.qq	0.020	"	1.25		10w	31-12w			
ortho-Xylene	1.q9	0.020	"	1.25		111	35-115			
meta- and para-Xylenes	2.w6	0.020	"	2.50		10w	3q-115			
trans-1,2-Dichloroethene	1.qq	0.020	"	1.25		10w	72-1qq			
Tetrachloroethene	1.12	0.020	"	1.25		39.w	w0-144			
Toluene	1.25	0.020	"	1.25		100	70-115			
Trichloroethene	1.q2	0.020	"	1.25		10w	w8-1q2			
Trichlorofluoromethane	1.45	0.020	"	1.25		11w	w2-144			
Vinyl Chloride	1.19	0.020	"	1.25		95.2	ww-1q7			
guro: ateD8 ibromofluoromethane	22.7		"	2S.5		91.7	75-2S5			
guro: ateDToluene-dB	2S.4		"	2S.5		262	75-2S5			
guro: ateD0-Cromofluorobenzene	21.6		"	2S.5		260	75-2S5			

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MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2754
Project Manager: Sarah Von Raesfield

Reported:
0q-Jun-14 14:55

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 34E2701 - Volatiles										
LCS Dup (34E2701-BSD1)				Prepared & Analyzed: 05/29/14						
1,1,1,2-Tetrachloroethane	1.1w	0.020	ug/l	1.25		92.3	75-1qw	4.22	20	
1,1,1-Trichloroethane	0.9q0	0.020	"	1.25		74.4	7q-1q4	21.2	20	QR-04
1,1,2,2-Tetrachloroethane	1.23	0.020	"	1.25		102	5w-149	25.q	20	QR-04
1,1,2-Trichloro-trifluoroethane	1.22	0.020	"	1.25		97.w	3q-125	3.wq	20	
1,1,2-Trichloroethane	1.q1	0.020	"	1.25		105	w7-1q7	11.5	20	
1,1-Dichloroethane	1.05	0.020	"	1.25		34.0	30-121	q.74	20	
1,1-Dichloroethene	1.1q	0.020	"	1.25		90.4	7q-1q7	2q.4	20	QR-04
1,2-Dichloroethane	1.15	0.020	"	1.25		92.0	75-1q1	9.92	20	
8 enzene	1.22	0.020	"	1.25		97.w	79-113	4.02	20	
cis-1,2-Dichloroethene	1.2q	0.020	"	1.25		93.4	35-11w	0.00	20	
Carbon tetrachloride	1.13	0.020	"	1.25		94.4	74-14q	4.qq	20	
Chloroethane	1.22	0.020	"	1.25		97.w	w0-1q7	0.31w	20	
Chloroform	1.14	0.020	"	1.25		91.2	32-140	5.1q	20	
Dichlorodifluoromethane	1.q5	0.020	"	1.25		103	47-129	5.7w	20	
Ethylbenzene	1.2w	0.020	"	1.25		101	3q-125	q.12	20	
Methylene Chloride	1.29	0.020	"	1.25		10q	31-12w	q.05	20	
ortho-Xylene	1.q7	0.020	"	1.25		110	35-115	1.45	20	
meta- and para-Xylenes	2.w9	0.020	"	2.50		103	3q-115	1.50	20	
trans-1,2-Dichloroethene	1.27	0.020	"	1.25		102	72-1qq	4.w2	20	
Tetrachloroethene	1.12	0.020	"	1.25		39.w	w0-144	0.00	20	
Toluene	1.25	0.020	"	1.25		100	70-115	0.00	20	
Trichloroethene	1.2w	0.020	"	1.25		101	w3-1q2	4.w5	20	
Trichlorofluoromethane	1.45	0.020	"	1.25		11w	w2-144	0.00	20	
Vinyl Chloride	1.2q	0.020	"	1.25		93.4	ww-1q7	q.q1	20	
gurro: ateD8 ibromofluoromethane	22.S		"	2S.5		B9.B	75-2S5			
gurro: ateDToluene-dB	2S.4		"	2S.5		262	75-2S5			
gurro: ateD0-Cromofluorobenzene	2S.7		"	2S.5		262	75-2S5			

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MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2754
Project Manager: Sarah Von Raesfeld

Reported:
0q-Jun-14 14:55

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 34E2701 - Volatiles

Duplicate (34E2701-DUP1)	Source: 3E42701-02			Prepared & Analyzed: 05/29/14						
1,1,1,2-Tetrachloroethane	ND	0.020	ug/l		ND				50	
1,1,1-Trichloroethane	ND	0.020	"		ND				50	
1,1,2,2-Tetrachloroethane	ND	0.020	"		ND				50	
1,1,2-Trichloro-trifluoroethane	ND	0.020	"		ND				50	
1,1,2-Trichloroethane	ND	0.020	"		ND				50	
1,1-Dichloroethane	ND	0.020	"		ND				50	
1,1-Dichloroethene	ND	0.020	"		ND				50	
1,2-Dichloroethane	ND	0.020	"		ND				50	
8 enzene	ND	0.020	"		ND				50	
cis-1,2-Dichloroethene	ND	0.020	"		ND				50	
Carbon tetrachloride	ND	0.020	"		ND				50	
Chloroethane	ND	0.020	"		ND				50	
Chloroform	ND	0.020	"		ND				50	
Dichlorodifluoromethane	ND	0.020	"		ND				50	
Ethylbenzene	0.0143	0.020	"		0.0150			1.q4	50	J
Methylene Chloride	ND	0.020	"		ND				50	
ortho-Xylene	0.0200	0.020	"		0.0242			19.0	50	
meta- and para-Xylenes	0.055w	0.020	"		0.059w			w94	50	
trans-1,2-Dichloroethene	ND	0.020	"		ND				50	
Tetrachloroethene	ND	0.020	"		ND				50	
Toluene	0.0420	0.020	"		0.0q94			wq9	50	
Trichloroethene	ND	0.020	"		ND				50	
Trichlorofluoromethane	ND	0.020	"		ND				50	
Vinyl Chloride	ND	0.020	"		ND				50	
guro: ateD8 ibromofluoromethane	S.SB		"	S.56		92.0		75-2S5		
guro: ateDToluene-dB	S.10		"	S.56		91.4		75-2S5		
guro: ateD0-Cromofluorobenzene	S.72		"	S.56		26B		75-2S5		
guro: ateDCenzene-d4	S.S2		"	S.56		BB.S		76-206		
guro: ateDMnloroform-d	S.14		"	S.56		90.4		76-206		
guro: ateD3 ethylene chloride-dS	S.S4		"	S.56		96.4		76-206		

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MWH Americas, Inc.
250 No. Madison Avenue
Pasadena, CA 91107

Project: Santa Susana Field Laboratory, Canoga Park
Project Number: EST2754
Project Manager: Sarah Von Raesfield

Reported:
06-Jun-14 14:55

Notes and Definitions

QR-04	The RPD result for this analyte in the sample exceeded the QC control limits; however, the RPD for other analytes were within the QC control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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SUMMARY OF INITIAL CALIBRATION

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:24:09 2013
 Response via : Initial Calibration

Calibration Files

1 =K3IC00_1.D 2 =K3IC0_25.D 3 =K07LCS01.D
 4 =K3IC1_25.D 5 =K3IC02_5.D 6 =K3IC12_5.D

Compound	1	2	3	4	5	6	Avg	%RSD
1) I Fluorobenzene (IS)	-----ISTD-----							
2) S Dibromofluoromethan	0.311	0.300	0.318	0.319	0.312	0.311	0.312	2.10
3) T (F12) Dichlorodiflu	0.320	0.284	0.302	0.292	0.321	0.321	0.307	5.36
4) P Chloromethane	0.422	0.302	0.293	0.219	0.221	0.212	0.278	29.02
5) CM Vinyl Chloride	0.276	0.224	0.211	0.207	0.207	0.199	0.221	12.88
6) T Bromomethane	0.338	0.225	0.179	0.162	0.150	0.139	0.199	37.55
7) T Chloroethane	0.030	0.106	0.066	0.102	0.098	0.089	0.082	35.53
8) T (F11) Trichlorofluo	0.379	0.365	0.327	0.337	0.323	0.326	0.343	6.87
9) T (F113) 1,1,2-Trichl	0.291	0.221	0.227	0.267	0.239	0.229	0.246	11.15
10) CM 1,1-Dichloroethene	0.277	0.287	0.322	0.307	0.291	0.286	0.295	5.61
11) T Acetone	0.267	0.136	0.115	0.061	0.051	0.016	0.108	82.94
12) M (IPA) Leak Check Co	0.012	0.022	0.014	0.013	0.014	0.016	0.015	27.59
13) T Carbon disulfide	1.178	1.037	1.080	1.042	0.958	0.941	1.039	8.28
14) T Methylene Chloride	0.418	0.313	0.349	0.339	0.327	0.314	0.343	11.47
15) (TBA) tert-Butanol	0.022	0.019	0.027	0.022	0.018	0.020	0.021	16.39
16) TM (MTBE) Methyl-t-but	0.789	0.678	0.760	0.729	0.655	0.638	0.708	8.56
17) T trans-1,2-Dichloroe	0.331	0.360	0.342	0.357	0.310	0.318	0.336	6.07
18) PM 1,1-Dichloroethane	0.582	0.580	0.586	0.585	0.521	0.518	0.562	5.90
19) T cis-1,2-Dichloroeth	0.442	0.415	0.416	0.387	0.339	0.345	0.390	10.66
20) T 2,2-Dichloropropane	0.561	0.489	0.520	0.497	0.440	0.435	0.490	9.80
21) T (MEK) 2-Butanone	0.036	0.041	0.042	0.021	0.440	0.435	0.035	26.97
22) T (DIPE) Diisopropyl	1.055	1.006	1.006	1.025	0.901	0.867	0.977	7.64
23) T Bromochloromethane	0.110	0.155	0.185	0.189	0.182	0.184	0.167	18.39
24) CM Chloroform	0.723	0.654	0.684	0.676	0.594	0.598	0.655	7.70
25) T (ETBE) 2-ethoxy 2-m	1.034	0.874	0.941	0.927	0.821	0.823	0.903	9.00
26) T 1,1,1-Trichloroetha	0.516	0.540	0.535	0.523	0.496	0.488	0.517	4.07
27) T (TAME) tert-Amyl me	1.000	0.749	0.821	0.764	0.701	0.680	0.786	14.75
28) S 1,2-Dichloroethane-	0.309	0.278	0.303	0.299	0.296	0.293	0.296	3.50
29) T 1,1-Dichloropropene	0.547	0.492	0.502	0.489	0.439	0.427	0.482	9.13
30) T Carbon Tetrachlorid	0.401	0.388	0.449	0.460	0.412	0.416	0.421	6.66
31) M Benzene	1.374	1.155	1.267	1.217	1.042	1.008	1.177	11.75
32) M 1,2-Dichloroethane	0.501	0.382	0.445	0.419	0.385	0.365	0.416	12.20
33) M Trichloroethene	0.480	0.355	0.386	0.399	0.336	0.324	0.380	14.87
34) C 1,2-Dichloropropane	0.298	0.297	0.277	0.290	0.264	0.258	0.281	6.17
35) T Dibromomethane	0.207	0.209	0.227	0.244	0.215	0.216	0.220	6.33
36) T Bromodichloromethan	0.459	0.407	0.479	0.446	0.428	0.433	0.442	5.69
37) T cis-1,3-Dichloropro	0.508	0.451	0.526	0.493	0.447	0.467	0.482	6.63
38) I Chlorobenzene-d5 (IS)	-----ISTD-----							
39) S Toluene-d8 (SU3)	1.209	1.139	1.193	1.149	1.157	1.149	1.166	2.42
40) T (MIBK) 4-Methyl-2-P	0.545	0.324	0.388	0.078	0.072	0.088	0.249	79.95
41) CM Toluene	2.231	1.790	1.660	1.584	1.518	1.441	1.704	16.71

Linear

Linear
Quadratic

Quadratic

Not in use.

Not in use.

42) T	trans-1,3-Dichlorop	0.601	0.493	0.586	0.607	0.528	0.560	0.563	7.97	
43) T	1,1,2-Trichloroetha	0.310	0.285	0.355	0.328	0.286	0.281	0.308	9.58	
44) M	Tetrachloroethene	0.462	0.392	0.677	0.635	0.590	0.281	0.551	21.81	Linear
45) T	1,3-Dichloropropane	0.710	0.578	0.592	0.569	0.532	0.529	0.585	11.33	
46) T	2-Hexanone	0.333	0.186	0.340	0.266	0.333	0.182	0.273	27.20	
47) T	Dibromochloromethan	0.426	0.363	0.496	0.458	0.432	0.459	0.439	10.18	
48) T	1,2-Dibromoethane	0.412	0.355	0.430	0.402	0.394	0.396	0.398	6.27	
49) PM	Chlorobenzene	1.366	1.154	1.110	1.134	1.086	1.043	1.149	9.84	
50) T	1,1,1,2-Tetrachloro	0.449	0.384	0.437	0.407	0.388	0.387	0.409	6.91	
51) CM	Ethylbenzene	2.333	2.080	1.968	1.851	1.736	1.654	1.937	12.77	
52) TM	m,p-Xylenes	0.809	0.711	0.727	0.669	0.615	0.602	0.689	11.20	
53) TM	o-Xylene	0.867	0.664	0.674	0.671	0.615	0.594	0.681	14.25	
54) T	Styrene	1.563	1.015	1.078	1.049	0.973	0.934	1.102	21.01	Linear
55) P	Bromoform	0.237	0.199	0.286	0.259	0.238	0.276	0.249	12.69	
56) T	Isopropylbenzene	2.188	1.855	1.900	1.811	1.764	1.674	1.865	9.44	
57) T	1,2,3-Trichloroprop	0.505	0.491	0.593	0.516	0.480	0.472	0.509	8.58	
58) S	4-Bromofluorobenzen	0.518	0.507	0.527	0.511	0.510	0.495	0.511	2.08	
-----ISTD-----										
59) I	1,4-Dichlorobenzene-d									
60) P	1,1,2,2-Tetrachloro	1.020	0.822	1.013	0.870	0.774	0.905	0.901	11.13	
61) T	Bromobenzene	1.079	1.003	1.043	0.946	0.914	0.907	0.982	7.20	
62) T	n-Propylbenzene	6.721	5.112	5.219	4.601	4.392	4.279	5.054	17.82	
63) T	2-Chlorotoluene	3.644	2.948	3.362	3.044	2.868	2.805	3.112	10.48	
64) T	1,3,5-Trimethylbenz	3.612	3.208	3.247	3.017	2.832	2.775	3.115	9.93	
65) T	4-Chlorotoluene	3.315	2.950	2.942	2.812	2.597	2.623	2.873	9.19	
66) T	tert-Butylbenzene	2.817	2.666	3.007	2.633	2.430	2.371	2.654	8.96	
67) T	1,2,4-Trimethylbenz	3.774	3.331	3.421	3.050	2.968	2.953	3.250	9.91	
68) T	sec-Butylbenzene	4.837	3.956	4.522	4.187	3.865	3.852	4.203	9.54	
69) T	p-Isopropyltoluene	3.974	3.475	3.582	3.347	3.061	3.060	3.417	10.13	
70) T	1,3-Dichlorobenzene	2.120	1.740	1.888	1.871	1.734	1.744	1.850	8.06	
71) T	1,4-Dichlorobenzene	2.120	1.740	1.974	1.864	1.658	1.729	1.847	9.43	
72) T	n-Butylbenzene	4.391	3.645	3.644	3.397	3.264	3.192	3.589	12.14	
73) T	1,2-Dichlorobenzene	1.716	1.534	1.764	1.657	1.614	1.583	1.645	5.20	
74) T	1,2-Dibromo-3-chlor	0.082	0.104	0.111	0.148	0.133	0.146	0.121	21.61	Linear
75) T	1,2,4-Trichlorobenz	1.184	1.091	1.244	1.074	1.050	1.044	1.115	7.28	
76) T	Hexachlorobutadiene	0.297	0.477	0.596	0.481	0.499	0.507	0.476	20.56	Linear
77) T	Naphthalene	2.690	2.294	3.052	2.312	2.176	2.294	2.470	13.55	
78) T	Hexachloroethane	0.306	0.301	0.391	0.362	0.374	0.435	0.361	14.24	
79) T	1,2,3-Trichlorobenz	1.346	0.926	1.173	0.993	0.940	0.968	1.058	15.82	

(#) = Out of Range

MW111313.M

Wed Nov 13 19:25:18 2013

CONTINUING CALIBRATION VERIFICATION

Data File : C:\HPCHEM\1\DATA\052914L3\E29CCV01.D
 Acq On : 29 May 2014 6:09 am
 Sample : 1.25/2.5/12.5 ug/L 8260B std
 Misc : 20mL 8260 CCV
 MS Integration Params: rteint.p
 Quant Time: May 29 7:05 19114

Vial: 9
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.31	96	1605228	12.50	ug/L	0.02
38) Chlorobenzene-d5 (IS)	13.93	117	1137403	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.52	152	564416	12.50	ug/L	0.01

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.45	113	457275	11.42	ug/L	0.03
Spiked Amount	12.500	Range	75 - 125	Recovery	=	91.36%
28) 1,2-Dichloroethane-d4 (SU2)	9.91	65	460410	12.10	ug/L	0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.80%
39) Toluene-d8 (SU3)	12.22	98	1391767	13.12	ug/L	0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	104.96%
58) 4-Bromofluorobenzene (SU4)	15.23	95	617202	13.27	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	106.16%

Target Compounds

					Qvalue
3) (F12) Dichlorodifluorometh	4.11	85	50750	1.29 ug/L	97
4) Chloromethane	4.47	50	35459	1.20 ug/L	96
5) Vinyl Chloride	4.60	62	35914	1.27 ug/L	79
6) Bromomethane	5.16	96	26183	1.31 ug/L	47
7) Chloroethane	5.29	64	14309	1.15 ug/L	71
8) (F11) Trichlorofluorometha	5.67	101	60534	1.37 ug/L	96
9) (F113) 1,1,2-Trichloro-tri	6.37	151	40051	1.27 ug/L	96
10) 1,1-Dichloroethene	6.45	96	48721	1.29 ug/L	92
11) Acetone	6.47	58	52055	-12.50 ug/L	89
12) (IPA) Leak Check Compound	6.55	45	201994	104.72 ug/L #	91
13) Carbon disulfide	6.88	76	167901	1.26 ug/L	99
14) Methylene Chloride	7.13	84	53258	1.21 ug/L	94
15) (TBA) tert-Butanol	7.12	59	7999	2.92 ug/L #	92
16) (MTBE) Methyl-t-butyl ethe	7.42	73	132170	1.45 ug/L	98
17) trans-1,2-Dichloroethene	7.50	96	59027	1.37 ug/L	97
18) 1,1-Dichloroethane	8.09	63	77282	1.07 ug/L	95
19) cis-1,2-Dichloroethene	8.85	96	60457	1.21 ug/L	91
20) 2,2-Dichloropropane	8.84	77	1221	0.02 ug/L #	1
21) (MEK) 2-Butanone	8.82	72	10605	2.35 ug/L #	57
22) (DIPE) Diisopropyl Ether	8.03	45	177767	1.42 ug/L	98
23) Bromochloromethane	9.19	128	23822	1.11 ug/L #	84
24) Chloroform	9.23	83	97656	1.16 ug/L	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052914L3\E29CCV01.D

Vial: 9

Acq On : 29 May 2014 6:09 am

Operator: DN

Sample : 1.25/2.5/12.5 ug/L 8260B std

Inst : GC/MS Ins

Misc : 20mL 8260 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 29 7:05 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) (ETBE) 2-ethoxy 2-methyl p	8.51	59	121633	1.05	ug/L	# 97
26) 1,1,1-Trichloroethane	9.52	97	74247	1.12	ug/L	96
27) (TAME) tert-Amyl methyl et	10.02	73	111792	1.11	ug/L	95
29) 1,1-Dichloropropene	9.70	75	72977	1.18	ug/L	97
30) Carbon Tetrachloride	13.90	117	62783	1.16	ug/L	94
31) Benzene	10.00	78	204543	1.35	ug/L	94
32) 1,2-Dichloroethane	10.01	62	67078	1.26	ug/L	94
33) Trichloroethene	10.76	130	59810	1.23	ug/L	97
34) 1,2-Dichloropropane	11.06	63	48722	1.35	ug/L	# 85
35) Dibromomethane	11.22	93	37563	1.33	ug/L	95
36) Bromodichloromethane	11.37	83	66664	1.17	ug/L	96
37) cis-1,3-Dichloropropene	11.88	75	66265	1.07	ug/L	93
40) (MIBK) 4-Methyl-2-Pentanone	12.13	43	22655	1.00	ug/L	# 100
41) Toluene	12.30	91	211702	1.37	ug/L	99
42) trans-1,3-Dichloropropene	12.52	75	52531	1.03	ug/L	76
43) 1,1,2-Trichloroethane	12.76	83	40786	1.46	ug/L	89
44) Tetrachloroethene	12.95	164	63149	1.16	ug/L	97
45) 1,3-Dichloropropane	12.97	76	70753	1.33	ug/L	99
46) 2-Hexanone	12.99	43	57975	2.33	ug/L	# 97
47) Dibromochloromethane	13.27	129	53863	1.35	ug/L	99
48) 1,2-Dibromoethane	13.44	107	55297	1.53	ug/L	92
49) Chlorobenzene	13.96	112	142694	1.37	ug/L	98
50) 1,1,1,2-Tetrachloroethane	14.04	131	46774	1.26	ug/L	96
51) Ethylbenzene	14.04	91	236809	1.34	ug/L	99
52) m,p-Xylenes	14.15	106	168781	2.69	ug/L	98
53) o-Xylene	14.63	106	87187	1.41	ug/L	98
54) Styrene	14.64	104	145355	1.63	ug/L	98
55) Bromoform	14.92	173	33471	1.48	ug/L	99
56) Isopropylbenzene	15.02	105	229593	1.35	ug/L	99
57) 1,2,3-Trichloropropane	15.43	75	79034	1.70	ug/L	# 1
60) 1,1,2,2-Tetrachloroethane	15.35	83	72651	1.79	ug/L	91
61) Bromobenzene	15.45	156	58542	1.32	ug/L	96
62) n-Propylbenzene	15.46	91	296699	1.30	ug/L	99
63) 2-Chlorotoluene	15.62	91	189355	1.35	ug/L	98
64) 1,3,5-Trimethylbenzene	15.63	105	191781	1.36	ug/L	95
65) 4-Chlorotoluene	15.73	91	180710	1.39	ug/L	97
66) tert-Butylbenzene	16.02	119	153673	1.28	ug/L	92

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052914L3\E29CCV01.D

Vial: 9

Acq On : 29 May 2014 6:09 am

Operator: DN

Sample : 1.25/2.5/12.5 ug/L 8260B std

Inst : GC/MS Ins

Misc : 20mL 8260 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 29 7:05 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 1,2,4-Trimethylbenzene	16.07	105	239508	1.63	ug/L	99
68) sec-Butylbenzene	16.26	105	254519	1.34	ug/L	99
69) p-Isopropyltoluene	16.39	119	242334	1.57	ug/L	95
70) 1,3-Dichlorobenzene	16.45	146	114869	1.38	ug/L	99
71) 1,4-Dichlorobenzene	16.54	146	113465	1.36	ug/L	98
72) n-Butylbenzene	16.86	91	220920	1.36	ug/L	97
73) 1,2-Dichlorobenzene	17.00	146	104513	1.41	ug/L	99
74) 1,2-Dibromo-3-chloropropan	17.94	75	12039	1.90	ug/L #	66
75) 1,2,4-Trichlorobenzene	19.04	180	69928	1.39	ug/L	96
76) Hexachlorobutadiene	19.21	225	33129	1.46	ug/L	97
77) Naphthalene	19.47	128	270161	2.42	ug/L	100
78) Hexachloroethane	17.30	201	19462	1.19	ug/L	95
79) 1,2,3-Trichlorobenzene	19.82	180	66459	1.39	ug/L	95

(#) = qualifier out of range (m) = manual integration

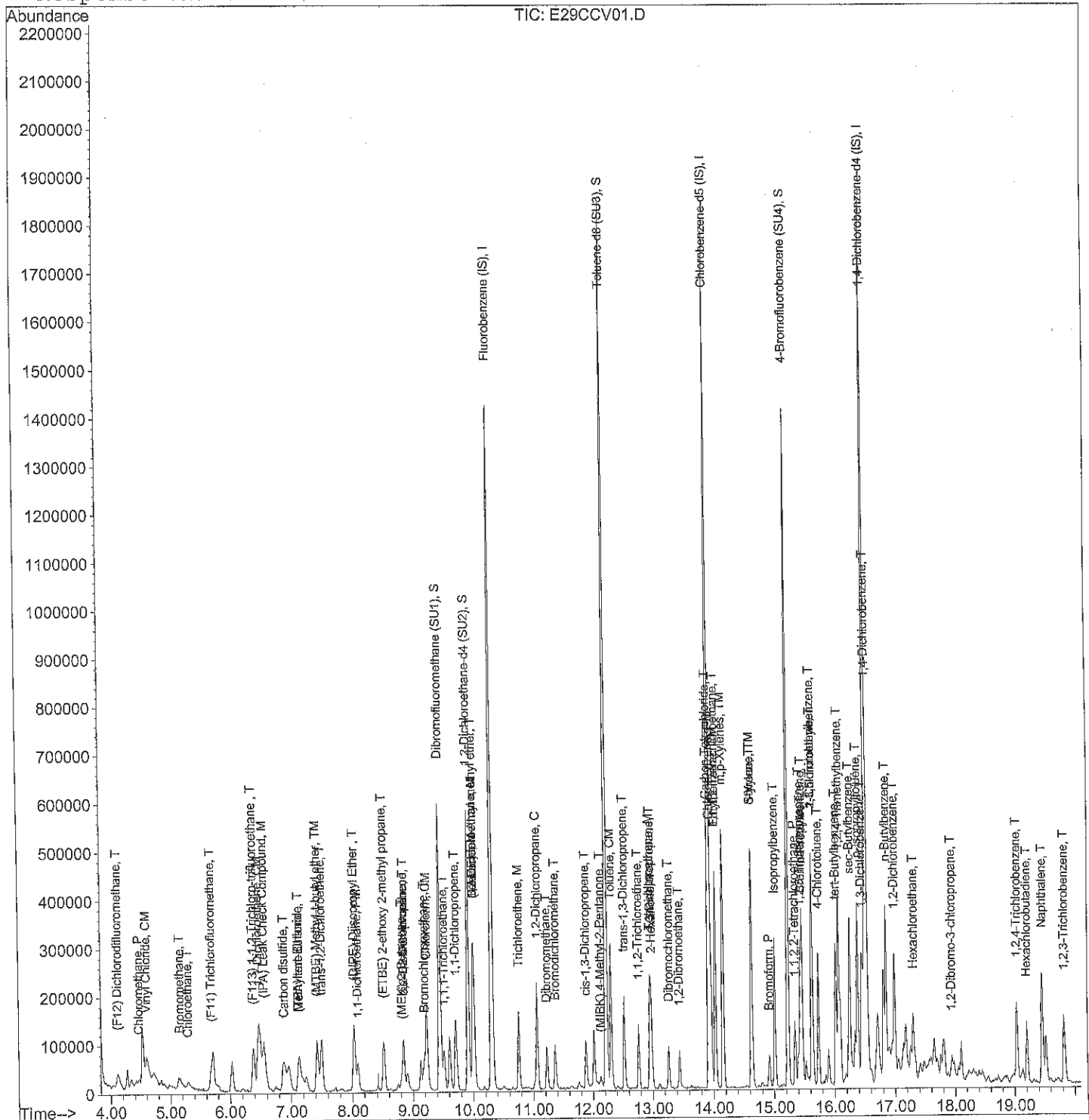
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052914L3\E29CCV01.D
Acq On : 29 May 2014 6:09 am
Sample : 1.25/2.5/12.5 ug/L 8260B std
Misc : 20mL 8260 CCV
MS Integration Params: rteint.p
Quant Time: May 29 7:05 19114

Vial: 9
Operator: DN
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: MW111313.RES

```
Method       : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title        : 8260B      GC/MS #3      ICAL 11/13/13   DN
Last Update   : Wed Nov 13 19:38:32 2013
Response via  : Initial Calibration
```



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052914L3\E29CCV01.D
 Acq On : 29 May 2014 6:09 am
 Sample : 1.25/2.5/12.5 ug/L 8260B std
 Misc : 20mL 8260 CCV
 MS Integration Params: rteint.p

Vial: 9
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev (min)
1 I	Fluorobenzene (IS)	12.500	12.500	0.0	121	0.02
2 S	Dibromofluoromethane (SU1)	12.500	11.420	8.6	108	0.03
3 T	(F12) Dichlorodifluorometha	1.250	1.289	-3.1	131	0.04
4 P	Chloromethane	1.250	1.196	4.3	122	0.09
5 CM	Vinyl Chloride	1.250	1.267	-1.4	131	0.05
6 T	Bromomethane	1.250	1.305	-4.4	122	0.06
7 T	Chloroethane	1.250	1.150	8.0	106	0.05
8 T	(F11) Trichlorofluoromethan	1.250	1.374	-9.8	135	0.06
9 T	(F113) 1,1,2-Trichloro-trif	1.250	1.269	-1.5	113	0.05
10 CM	1,1-Dichloroethene	1.250	1.286	-2.9	119	0.05
11 T	Acetone	1.250	-12.500	1100.0#	640	0.01
12 M	(IPA) Leak Check Compound	62.500	104.719	-67.6#	218	0.01
13 T	Carbon disulfide	1.250	1.258	-0.6	121	0.07
14 T	Methylene Chloride	1.250	1.208	3.4	118	0.05
15	(TBA) tert-Butanol	12.500	2.922	76.6#	27	0.00
16 TM	(MTBE) Methyl-t-butyl ether	2.500	1.453	41.9#	68	0.02
17 T	trans-1,2-Dichloroethene	1.250	1.367	-9.4	125	0.04
18 PM	1,1-Dichloroethane	1.250	1.071	14.3	99	0.04
19 T	cis-1,2-Dichloroethene	1.250	1.206	3.5	118	0.03
20 T	2,2-Dichloropropane	1.250	0.019	98.5#	2	0.01
21 T	(MEK) 2-Butanone	1.250	2.350	-88.0#	194	0.03
22 T	(DIPE) Diisopropyl Ether	1.250	1.417	-13.4	131	0.02
23 T	Bromochloromethane	1.250	1.108	11.4	95	0.04
24 CM	Chloroform	1.250	1.161	7.1	109	0.03
25 T	(ETBE) 2-ethoxy 2-methyl pr	1.250	1.049	16.1	99	0.01
26 T	1,1,1-Trichloroethane	1.250	1.119	10.5	107	0.03
27 T	(TAME) tert-Amyl methyl eth	1.250	1.108	11.4	110	0.01
28 S	1,2-Dichloroethane-d4 (SU2)	12.500	12.099	3.2	116	0.02
29 T	1,1-Dichloropropene	1.250	1.178	5.8	113	0.02
30 T	Carbon Tetrachloride	1.250	1.161	7.1	103	4.19#
31 M	Benzene	1.250	1.353	-8.2	127	0.02
32 M	1,2-Dichloroethane	1.250	1.255	-0.4	121	0.02
33 M	Trichloroethene	1.250	1.226	1.9	113	0.02
34 C	1,2-Dichloropropane	1.250	1.351	-8.1	127	0.01
35 T	Dibromomethane	1.250	1.331	-6.5	116	0.01
36 T	Bromodichloromethane	1.250	1.174	6.1	113	0.02
37 T	cis-1,3-Dichloropropene	1.250	1.071	14.3	101	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052914L3\E29CCV01.D

Vial: 9

Acq On : 29 May 2014 6:09 am

Operator: DN

Sample : 1.25/2.5/12.5 ug/L 8260B std

Inst : GC/MS Ins

Misc : 20mL 8260 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
38 I	Chlorobenzene-d5 (IS)	12.500	12.500	0.0	110	0.00
39 S	Toluene-d8 (SU3)	12.500	13.119	-5.0	117	0.01
40 T	(MIBK) 4-Methyl-2-Pentanone	1.250	0.998	20.2	280	0.01
41 CM	Toluene	1.250	1.365	-9.2	129	0.02
42 T	trans-1,3-Dichloropropene	1.250	1.026	17.9	84	0.01
43 T	1,1,2-Trichloroethane	1.250	1.458	-16.6	120	0.01
44 M	Tetrachloroethene	1.250	1.159	7.3	96	0.01
45 T	1,3-Dichloropropane	1.250	1.329	-6.3	120	0.00
46 T	2-Hexanone	1.250	2.330	-86.4#	211	0.02
47 T	Dibromochloromethane	1.250	1.348	-7.8	114	0.01
48 T	1,2-Dibromoethane	1.250	1.526	-22.1	133	0.00
49 PM	Chlorobenzene	1.250	1.365	-9.2	122	0.00
50 T	1,1,1,2-Tetrachloroethane	1.250	1.258	-0.6	111	0.01
51 CM	Ethylbenzene	1.250	1.344	-7.5	124	0.01
52 TM	m,p-Xylenes	2.500	2.693	-7.7	122	0.00
53 TM	o-Xylene	1.250	1.407	-12.6	126	0.01
54 T	Styrene	1.250	1.632	-30.6#	134	0.00
55 P	Bromoform	1.250	1.476	-18.1	125	0.01
56 T	Isopropylbenzene	1.250	1.353	-8.2	123	0.01
57 T	1,2,3-Trichloropropane	1.250	1.705	-36.4#	148	0.00
58 S	4-Bromofluorobenzene (SU4)	12.500	13.268	-6.1	117	0.00
59 I	1,4-Dichlorobenzene-d4 (IS)	12.500	12.500	0.0	112	0.01
60 P	1,1,2,2-Tetrachloroethane	1.250	1.786	-42.9#	166	0.00
61 T	Bromobenzene	1.250	1.320	-5.6	123	0.00
62 T	n-Propylbenzene	1.250	1.300	-4.0	128	0.00
63 T	2-Chlorotoluene	1.250	1.348	-7.8	124	0.01
64 T	1,3,5-Trimethylbenzene	1.250	1.363	-9.0	127	0.00
65 T	4-Chlorotoluene	1.250	1.393	-11.4	128	0.00
66 T	tert-Butylbenzene	1.250	1.282	-2.6	116	0.00
67 T	1,2,4-Trimethylbenzene	1.250	1.632	-30.6#	156	0.01
68 T	sec-Butylbenzene	1.250	1.341	-7.3	121	0.00
69 T	p-Isopropyltoluene	1.250	1.571	-25.7	144	0.01
70 T	1,3-Dichlorobenzene	1.250	1.375	-10.0	122	0.00
71 T	1,4-Dichlorobenzene	1.250	1.360	-8.8	121	0.00
72 T	n-Butylbenzene	1.250	1.363	-9.0	130	0.01
73 T	1,2-Dichlorobenzene	1.250	1.407	-12.6	126	0.01

(#)= Out of Range

E29CCV01.D MW111313.M

Thu May 29 07:05:43 2014

Page 2

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052914L3\E29CCV01.D

Vial: 9

Acq On : 29 May 2014 6:09 am

Operator: DN

Sample : 1.25/2.5/12.5 ug/L 8260B std

Inst : GC/MS Ins

Misc : 20mL 8260 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
74 T	1,2-Dibromo-3-chloropropane	1.250	1.903	-52.2#	162	0.00
75 T	1,2,4-Trichlorobenzene	1.250	1.389	-11.1	130	0.00
76 T	Hexachlorobutadiene	1.250	1.460	-16.8	137	0.00
77 T	Naphthalene	1.250	2.423	-93.8#	233	0.01
78 T	Hexachloroethane	1.250	1.193	4.6	107	0.00
79 T	1,2,3-Trichlorobenzene	1.250	1.391	-11.3	133	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

E29CCV01.D MW111313.M

Thu May 29 07:05:44 2014

Page 3

SUMMARY OF INTERNAL STANDARDS

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\052914L3\E29BFB01.D
 Tune Time : 29 May 14 5:56 am

Daily Calibration File : C:\HPCHEM\1\DATA\013014L3\A30CCV01.D

(PFB) (CLBD (1,4-
 1590180 1163370 587649

File	Sample	Surrogate Recovery %				Internal Standard Responses		
E2900001.D	3E42901-	94	97	97	106	1446066	1151739	631317
E2900002.D	3E42901-	90	91	97	108	1583591	1245807	686848
E2900003.D	34E2901-	91	96	94	108	1515026	1225648	671159
E2900004.D	3E42901-	92	96	95	110	1527639	1240492	660440
E2900005.D	3E42901-	90	93	96	111	1531628	1208919	672911
E2900006.D	3E42901-	93	96	94	111	1523502	1220492	678647
E2900007.D	3E42901-	90	94	94	111	1551642	1248508	679192
E2900008.D	3E42901-	88	91	94	107	1603103	1279952	698801
E2900009.D	3E42901-	90	94	93	107	1563526	1280591	693986
E2900010.D	3E42901-	94	95	93	106	1549175	1274965	707525
E2900011.D	3E42901-	85	76	99	103	2000126	1513788	768922
E2900012.D	3E42901-	90	94	93	106	1633764	1325951	712550
E2900013.D	3E42901-	91	96	93	107	1606122	1324344	689225
E29BLK01.D	34E2901-	90	91	96	109	1637712	1287902	712164
E29LCS01.D	34E2901-	94	96	101	104	1513544	1118075	552768
E29LCS02.D	34E2901-	90	90	101	101	1677230	1202455	584740

t - fails 12hr time check * - fails criteria

Created: Sun Jun 08 11:45:53 2014 GC
 MS Ins

SUMMARY OF INSTRUMENT TUNING

BFB

Data File : C:\HPCHEM\1\DATA\052914L3\E29BFB01.D

Vial: 1

Acq On : 29 May 2014 5:56 am

Operator: DN

Sample : 50 ng BFB tune

Inst : GC/MS Ins

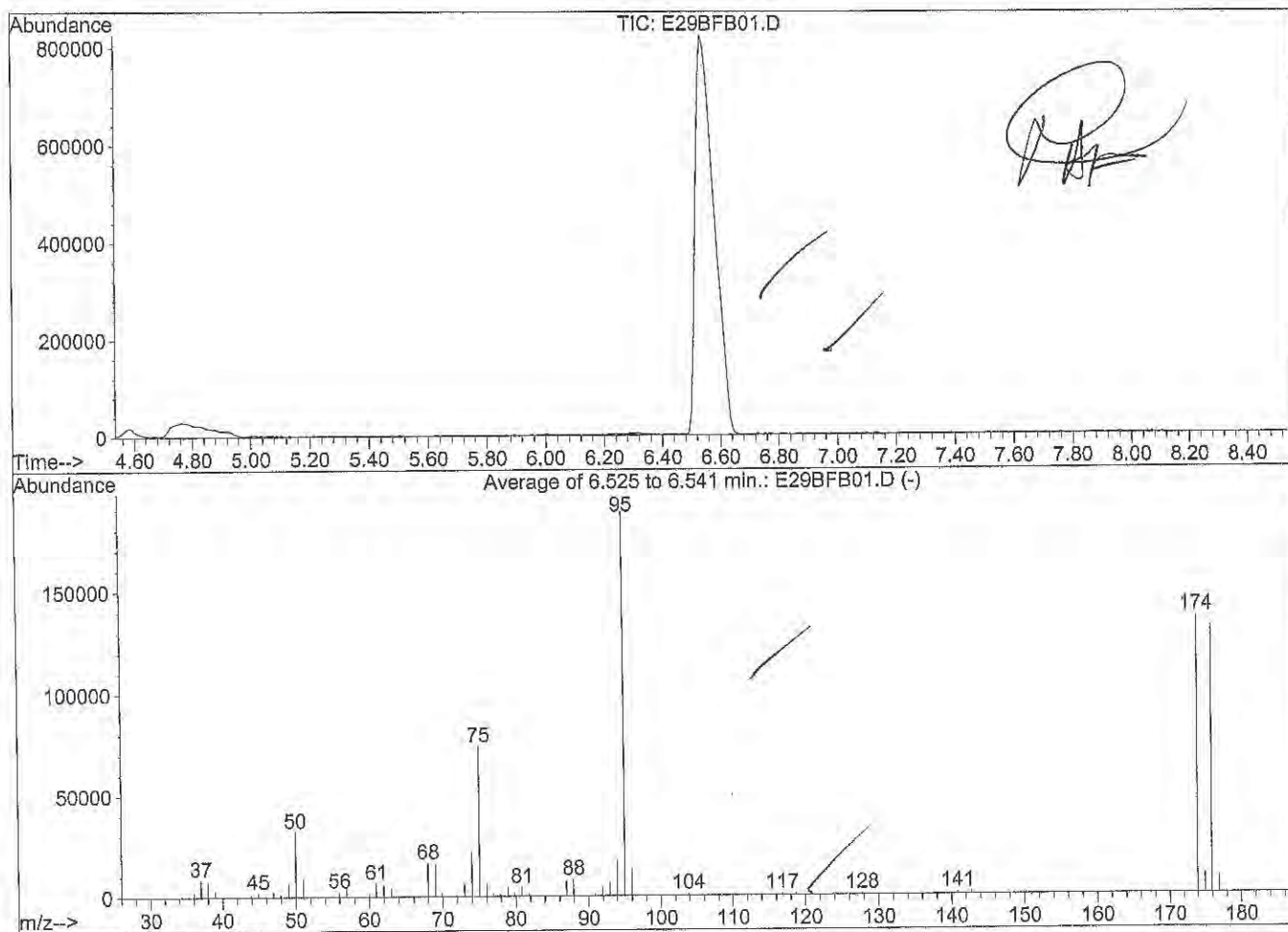
Misc : 12HRS SYSTEM BFB TUNING

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN



AutoFind: Scans 320, 321, 322; Background Corrected with Scan 313

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	32032	PASS
75	95	30	60	39.2	73792	PASS
95	95	100	100	100.0	188245	PASS
96	95	5	9	6.8	12848	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.4	136301	PASS
175	174	5	9	7.0	9551	PASS
176	174	95	101	96.4	131344	PASS
177	176	5	9	6.3	8283	PASS

INJECTION LOG

Injection Log

Directory: c:\hpcchem\1\data\052914\3

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	11	e2900001.d	10.	3E42901-01	100cc Equipment Blank	29 May 14 08:11
2	1	e2900002.d	10.	3E42901-02	100cc SVL-544-SA5D-SV-10.0-11.0	29 May 14 08:46
3	2	e2900003.d	10.	34E2901-DUP1	100cc SVL-544-SA5D-SV-10.0-11.0	29 May 14 09:15
4	3	e2900004.d	10.	3E42901-03	100cc SVL-844-SA5D-SV-10.0-11.0	29 May 14 09:44
5	4	e2900005.d	10.	3E42901-04	100cc SVL-530-SA5C-SV-6.5-7.5	29 May 14 10:13
6	5	e2900006.d	10.	3E42901-05	100cc SVL-519-SA5D-SV-8.9-9.5	29 May 14 10:44
7	6	e2900007.d	10.	3E42901-06	100cc SVL-526-SA5D-SV-7.5-8.5	29 May 14 11:13
8	7	e2900008.d	10.	3E42901-07	100cc SVL-530-SA5D-SV-5.0-6.0	29 May 14 11:42
9	8	e2900009.d	10.	3E42901-08	100cc SVL-531-SA5D-SV-5.0-6.0	29 May 14 12:11
10	1	e2900010.d	10.	3E42901-09	100cc SVL-539-SA5D-SV-4.5-5.5	29 May 14 12:57
11	2	e2900011.d	10.	3E42901-10	100cc SVL-539-SA5D-SV-8.5-9.5	29 May 14 13:26
12	3	e2900012.d	10.	3E42901-11	100cc SVL-572-SA5C-SV-6.8-7.8	29 May 14 13:59
13	4	e2900013.d	10.	3E42901-12	100cc FB-052914	29 May 14 14:28
14	1	e29bfb01.d	1.	50 ng BFB tune	12HRS SYSTEM BFB TUNING	29 May 14 05:56
15	11	e29blk01.d	10.	34E2901-BLK1	100cc AMBIENT AIR/H2O	29 May 14 07:39
16	9	e29ccv01.d	1.	1.25/2.5/12.5 ug/L 8260B std	20mL 8260 CCV	29 May 14 06:09
17	10	e29lcs01.d	1.	34E2901-BS1	20cc 1.25/2.5/12.5 ug/L LCS	29 May 14 06:38
18	9	e29lcs02.d	1.	34E2901-BSD1	20cc 1.25/2.5/12.5 ug/L LCS	29 May 14 14:57

SAMPLE LOG SHEET

Sample Log Sheet

MMVH SSFL, CA

MMVH SSFL, CA

CASE NARRATIVE

**LABORATORY CASE NARRATIVE
(EPA 8260B)**

SDG: 34E2901

DATE: May 29, 2014

PROJECT No.: EST2754

Twelve (12) Glass Bulb soil vapor samples were analyzed on May 29, 2014, by EPA Method Analysis performed using a gas chromatograph/mass spectrometer (GC/MS).

Sample Preservation and Holding Times

Samples were preserved according to the method recommendation, unless otherwise noted on the chain-of-custody (COC) and /or the sample log sheet. Holding times were met, unless otherwise noted in the report with data qualifiers.

QA/QC Criteria

All quality objective criteria were met, except as noted in the report with data qualifiers.

Samples Analysis

No anomalies were observed during analysis of the samples.

COMMENTS:

Results that fall between the MDL and RL are 'J' flagged.

Adjusted values corrected for significant figure correction (10X) and sample volume (5X).

RAW DATA FOR QC SAMPLES AND INITIAL CALIBRATION
DUPLICATE SAMPLE

Data File : C:\HPCHEM\1\DATA\052914L3\E2900003.D
 Acq On : 29 May 2014 9:15 am
 Sample : 34E2901-DUP1
 Misc : 100cc SVL-544-SA5D-SV-10.0-11.0
 MS Integration Params: rteint.p
 Quant Time: May 29 9:38 19114

Vial: 2
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1515026	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1225648	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.52	152	671159	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	431751	11.42	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	91.36%
28) 1,2-Dichloroethane-d4 (SU2)	9.89	65	429929	11.97	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.76%
39) Toluene-d8 (SU3)	12.21	98	1337766	11.70	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	93.60%
58) 4-Bromofluorobenzene (SU4)	15.22	95	678795	13.54	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	108.22%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	4.40	50	4893	0.71	ug/L	#8m 72
6) Bromomethane	5.11	96	386	-1.55	ug/L	# 1
7) Chloroethane	5.31	64	797	1.32	ug/L	96
11) Acetone	6.48	58	3820	1.38	ug/L	# 56
12) (IPA) Leak Check Compound	6.46	45	337071	1851.51	ug/L	#8m 83
13) Carbon disulfide	6.83	76	5188	0.41	ug/L	# 93
14) Methylene Chloride	7.06	84	5988	1.44	ug/L	#8m 1
15) (TBA) tert-Butanol	7.16	59	958	3.71	ug/L	# 77
22) (DIPE) Diisopropyl Ether	8.09	45	265	0.02	ug/L	#8m 48
24) Chloroform	9.21	83	1732	0.22	ug/L	# 1
25) (ETBE) 2-ethoxy 2-methyl p	8.37	59	265	0.02	ug/L	# 44
29) 1,1-Dichloropropene	9.92	75	273	0.05	ug/L	# 1
31) Benzene	9.98	78	2886	0.20	ug/L	# 74
32) 1,2-Dichloroethane	9.92	62	6094	1.21	ug/L	# 1
35) Dibromomethane	11.04	93	255	0.10	ug/L	# 5
40) (MIBK) 4-Methyl-2-Pentanone	12.21	43	7469	3.05	ug/L	#8m 100
41) Toluene	12.29	91	35142	2.10	ug/L	0.042 89
46) 2-Hexanone	13.11	43	344	0.13	ug/L	# 27
51) Ethylbenzene	14.03	91	14143	0.74	ug/L	#0.042 86
52) m,p-Xylenes	14.15	106	18774	2.78	ug/L	0.0556 92
53) o-Xylene	14.62	106	6648	1.00	ug/L	0.02 85
54) Styrene	14.62	104	1322	-0.74	ug/L	# 1

(#) = qualifier out of range (m) = manual integration
 E2900003.D MW111313.M Thu May 29 09:38:43 2014

Data File : C:\HPCHEM\1\DATA\052914L3\E2900003.D

Acq On : 29 May 2014 9:15 am

Sample : 34E2901-DUP1

Misc : 100cc SVL-544-SA5D-SV-10.0-11.0

MS Integration Params: rteint.p

Quant Time: May 29 9:38 19114

Vial: 2

Operator: DN

Inst : GC/MS Ins

Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
57) 1,2,3-Trichloropropane	15.30	75	282	0.06	ug/L #NBM	36
62) n-Propylbenzene	15.46	91	4077	0.15	ug/L #	75
63) 2-Chlorotoluene	15.62	91	553	0.03	ug/L #	45
64) 1,3,5-Trimethylbenzene	15.63	105	5088	0.30	ug/L #0.006	98
65) 4-Chlorotoluene	15.62	91	553	0.04	ug/L #NBM	44
66) tert-Butylbenzene	16.07	119	1609	0.11	ug/L #	70
67) 1,2,4-Trimethylbenzene	16.06	105	11902	0.68	ug/L #0.036	94
68) sec-Butylbenzene	16.15	105	406	0.02	ug/L #NBM	62
69) p-Isopropyltoluene	16.38	119	805	0.04	ug/L #	52
72) n-Butylbenzene	16.85	91	269	0.01	ug/L #	30
77) Naphthalene	19.45	128	277	0.02	ug/L #	100

(#) = qualifier out of range (m) = manual integration

E2900003.D MW111313.M

Thu May 29 09:38:44 2014

Page 2

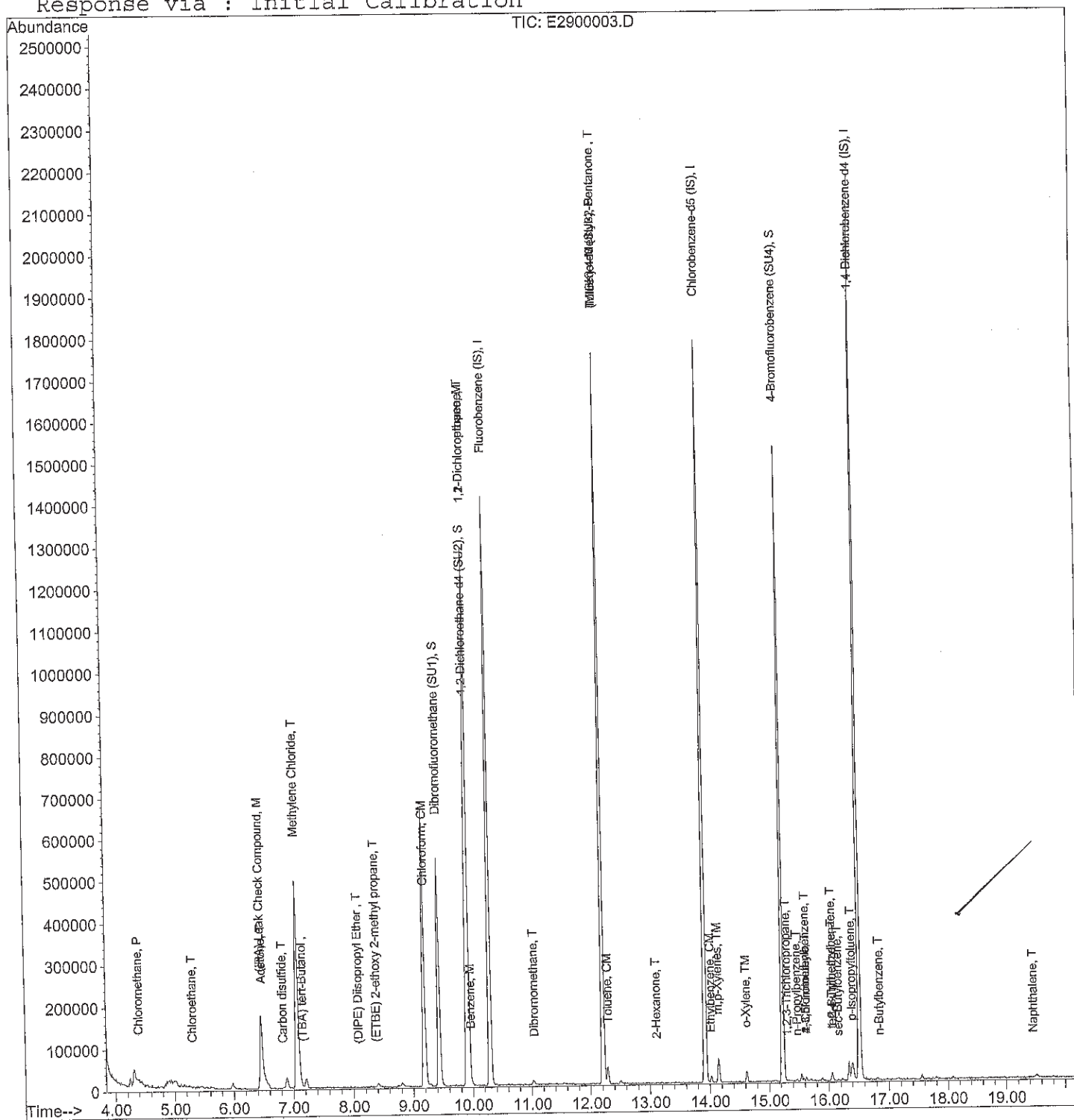
Quantitation Report

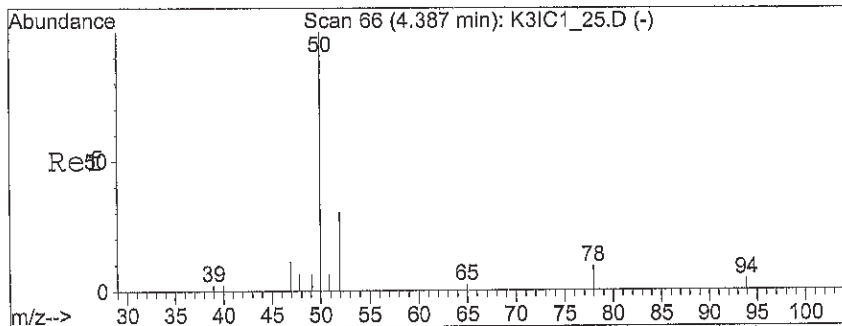
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 Acq On : 29 May 2014 9:15 am
 Sample : 34E2901-DUP1
 Misc : 100cc SVL-544-SA5D-SV-10.0-11.0
 MS Integration Params: rteint.p
 Quant Time: May 29 9:38 19114

Vial: 2
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

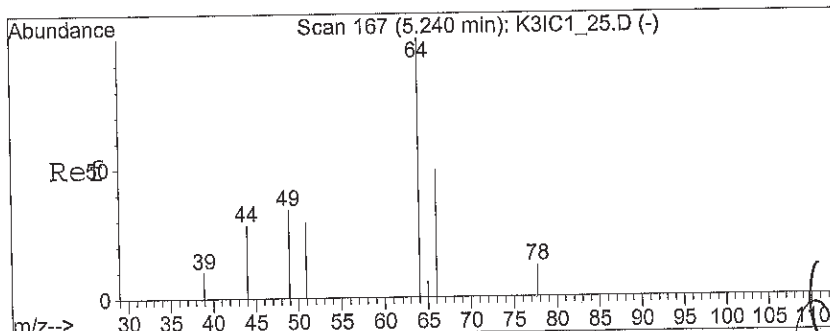
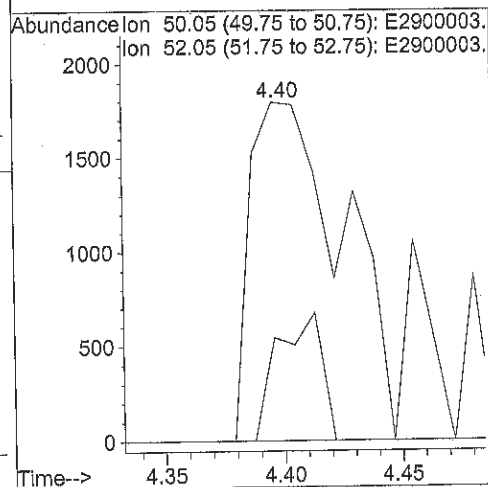
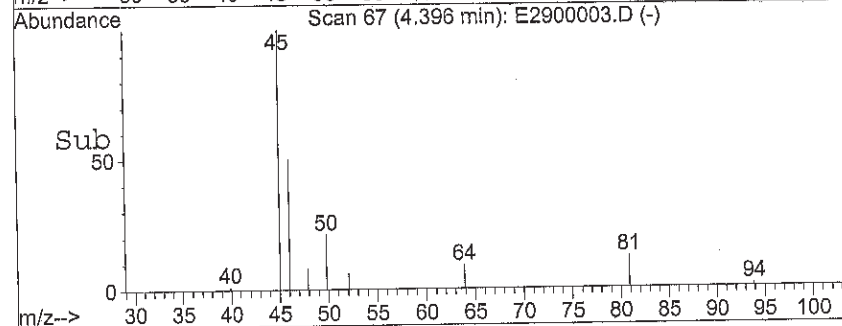
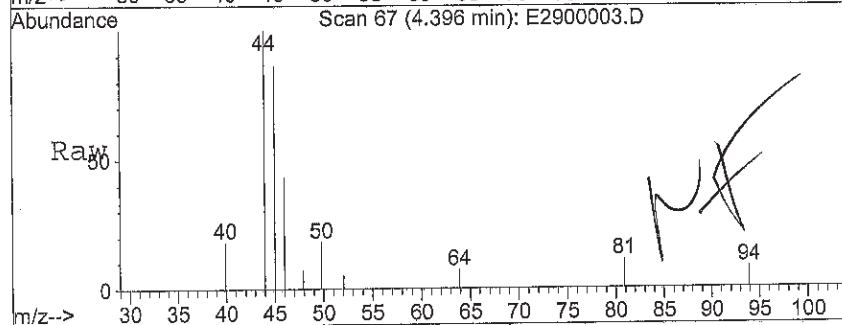
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration





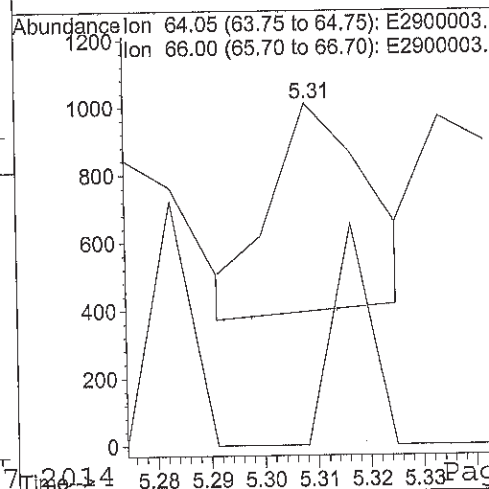
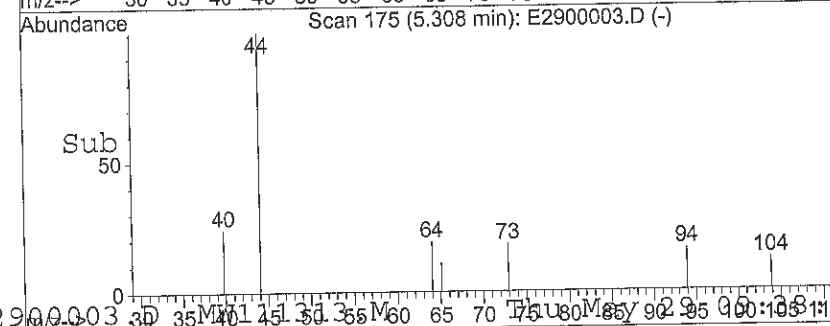
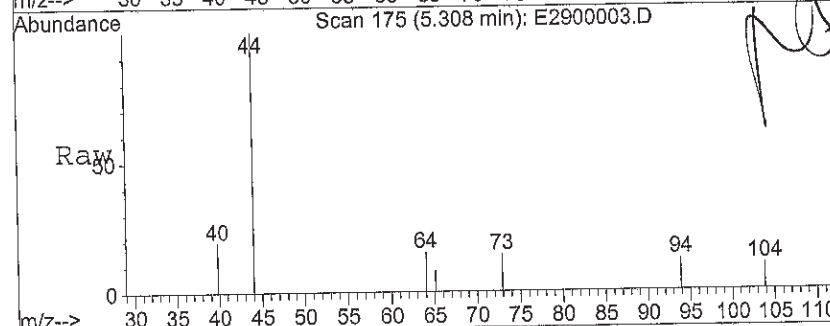
#4
 Chloromethane
 Concen: 0.71 ug/L
 RT: 4.40 min Scan# 67
 Delta R.T. 0.01 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am

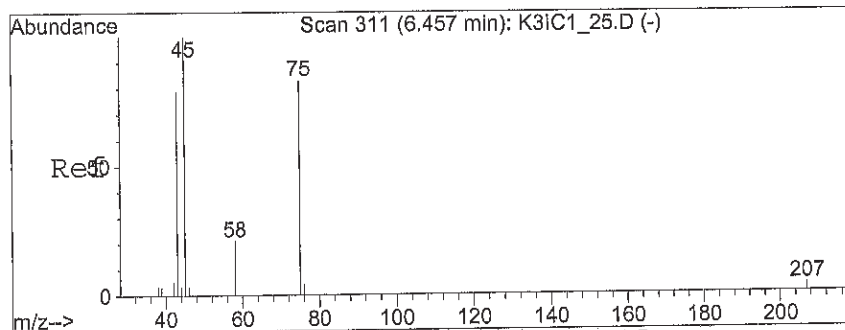
Tgt Ion: 50 Resp: 4893
 Ion Ratio Lower Upper
 50 100
 52 17.8 26.9 40.3#



#7
 Chloroethane
 Concen: 1.32 ug/L
 RT: 5.31 min Scan# 175
 Delta R.T. 0.07 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am

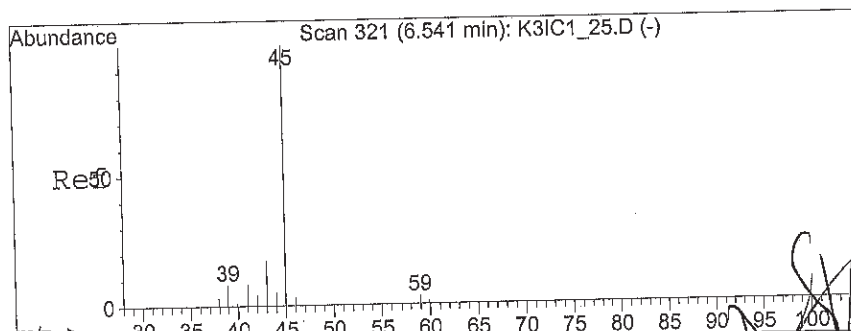
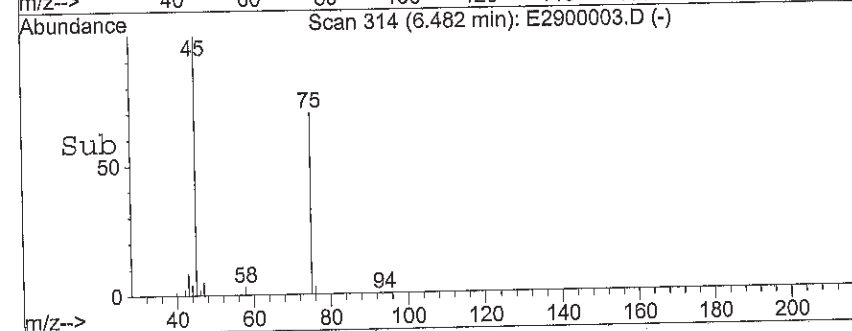
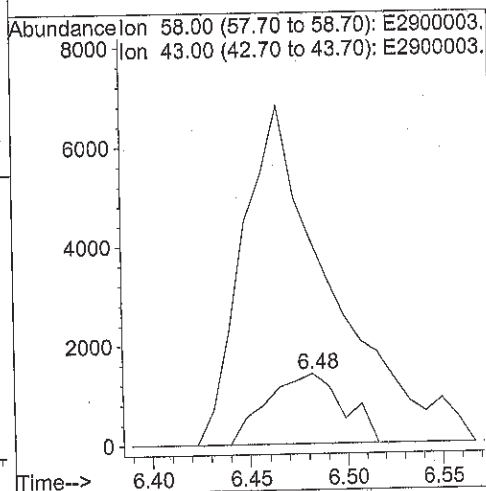
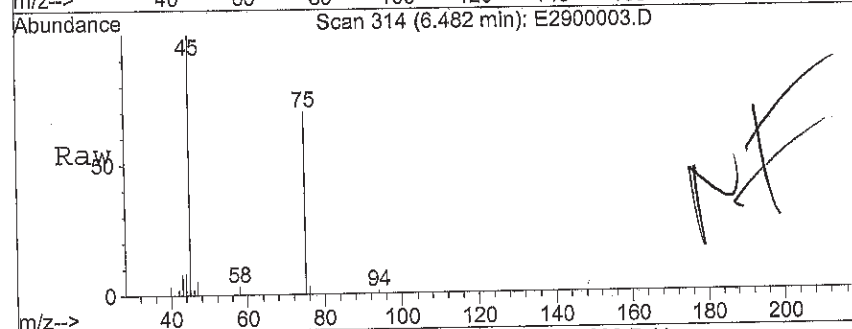
Tgt Ion: 64 Resp: 797
 Ion Ratio Lower Upper
 64 100
 66 41.7 35.4 53.0





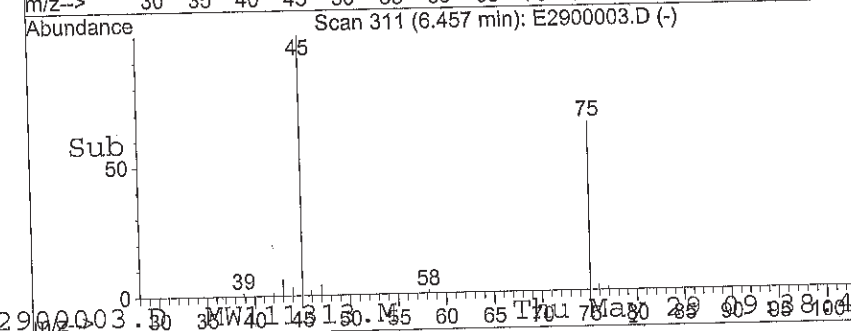
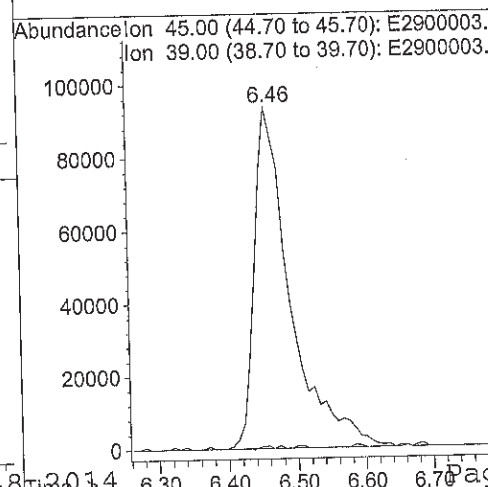
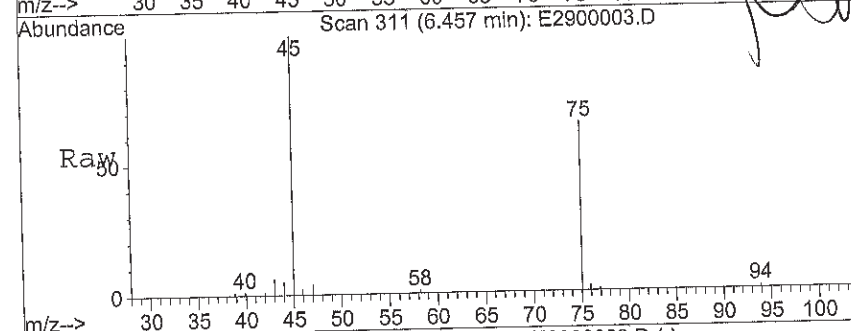
#11
Acetone
Concen: 1.38 ug/L
RT: 6.48 min Scan# 314
Delta R.T. 0.03 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

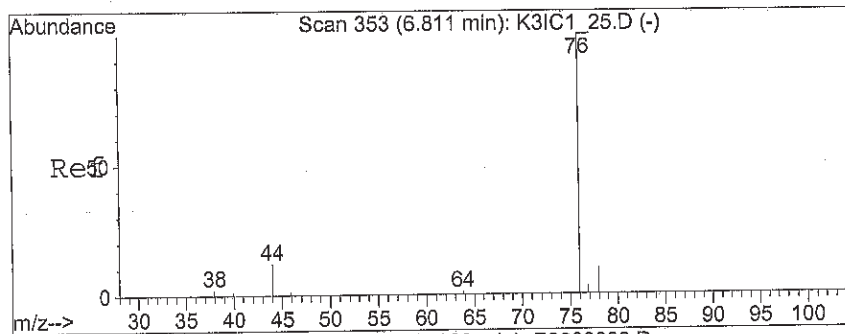
Tgt Ion: 58 Resp: 3820
Ion Ratio Lower Upper
58 100
43 565.3 360.9 541.3#



#12
(IPA) Leak Check Compound
Concen: 1851.51 ug/L
RT: 6.46 min Scan# 311
Delta R.T. -0.08 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

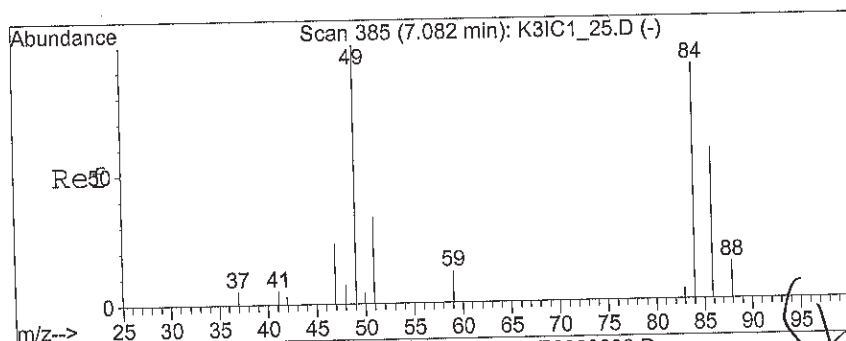
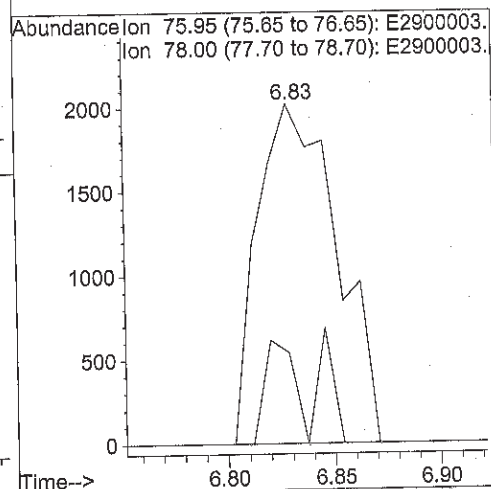
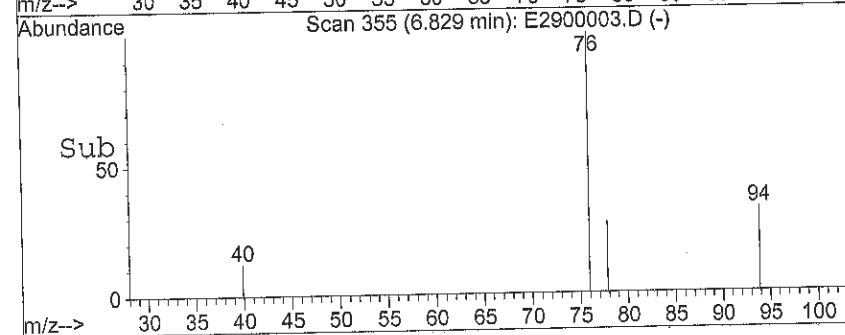
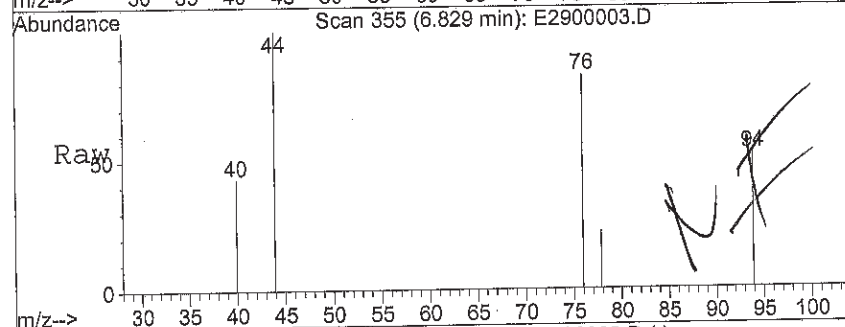
Tgt Ion: 45 Resp: 337071
Ion Ratio Lower Upper
45 100
39 0.3 4.9 7.3#





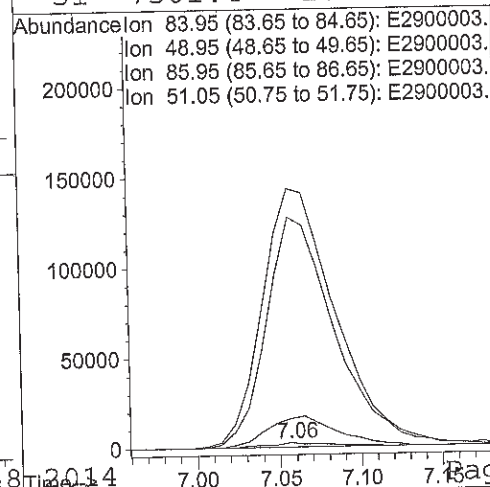
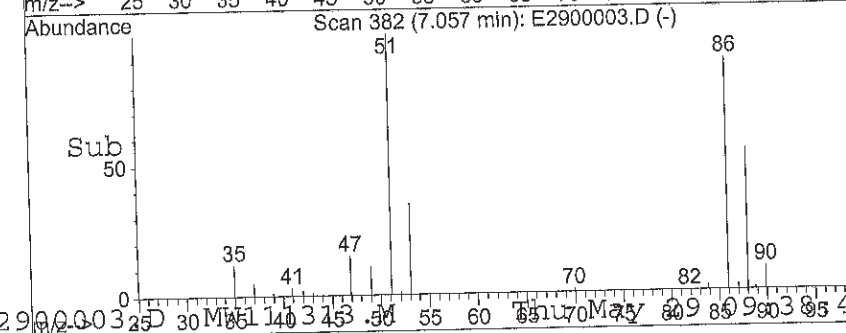
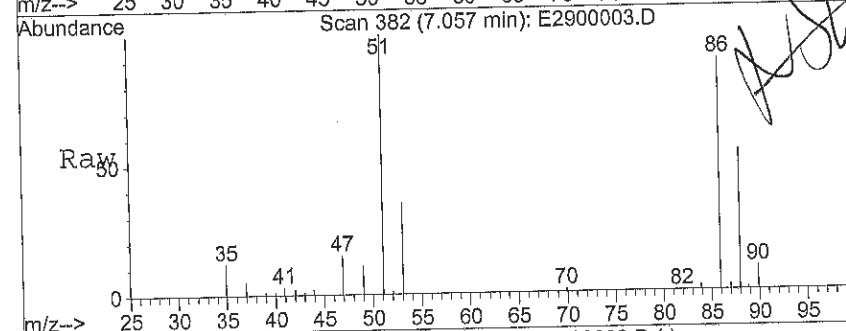
#13
Carbon disulfide
Concen: 0.41 ug/L
RT: 6.83 min Scan# 355
Delta R.T. 0.02 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

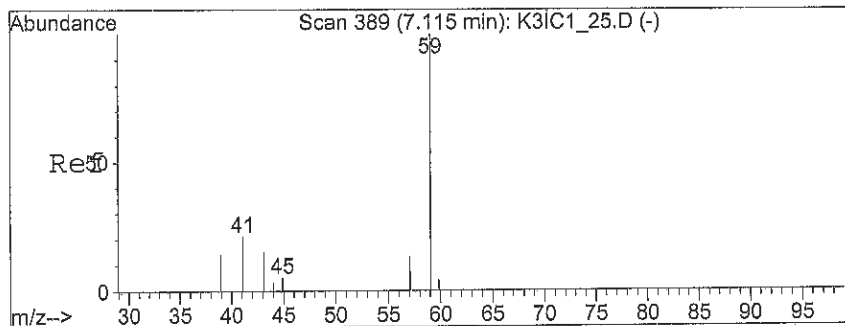
Tgt Ion: 76 Resp: 5188
Ion Ratio Lower Upper
76 100
78 11.2 7.0 10.4#



#14
Methylene Chloride
Concen: 1.44 ug/L
RT: 7.06 min Scan# 382
Delta R.T. -0.03 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

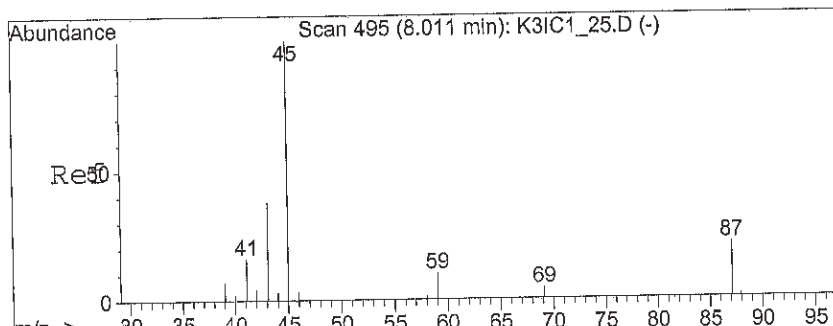
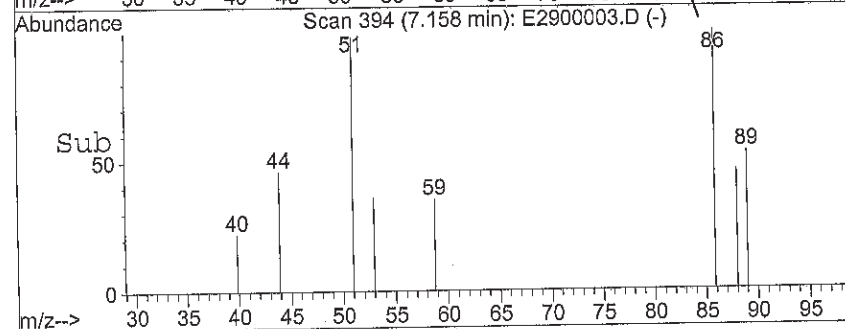
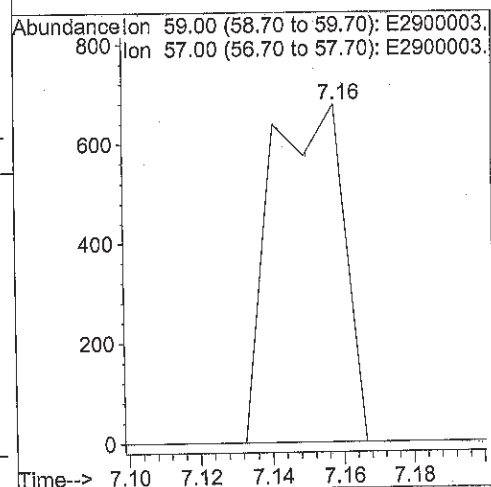
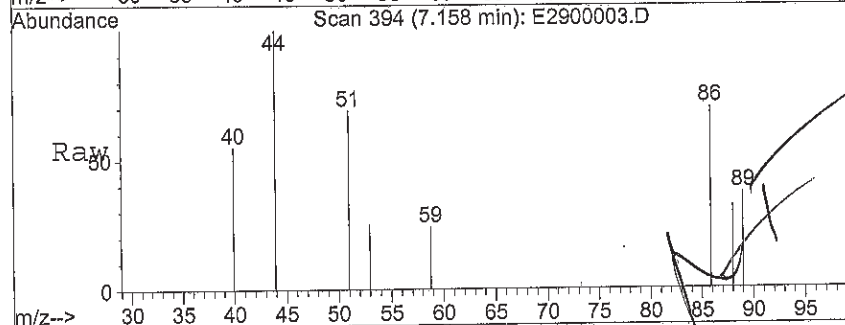
Tgt Ion: 84 Resp: 5988
Ion Ratio Lower Upper
84 100
49 839.5 89.8 134.6#
86 6245.0 51.1 76.7#
51 7501.4 28.5 42.7#





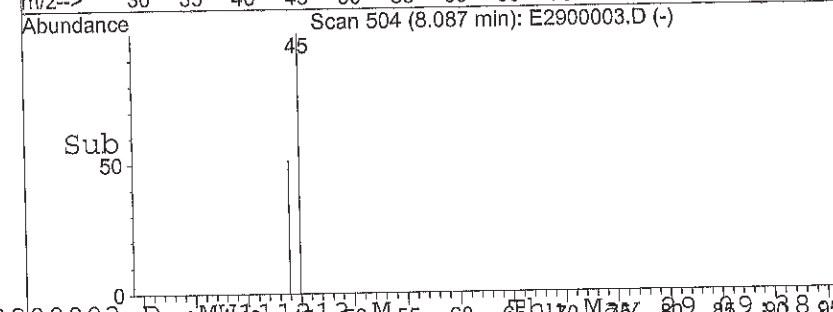
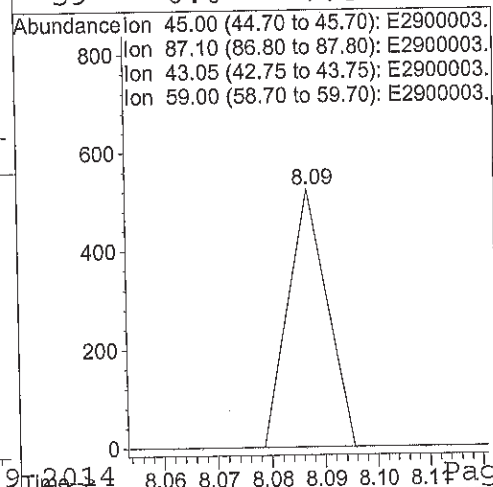
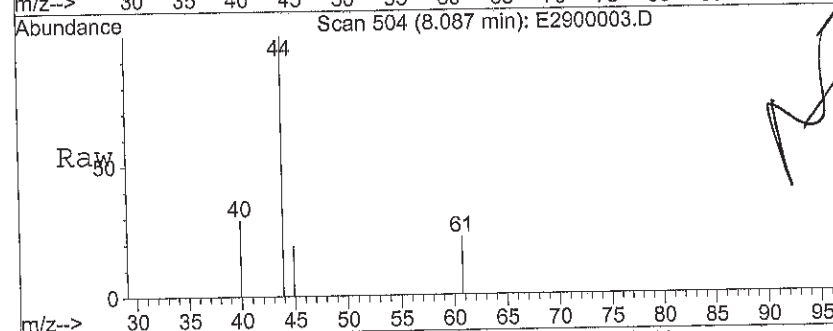
#15
 (TBA) tert-Butanol
 Concen: 3.71 ug/L
 RT: 7.16 min Scan# 394
 Delta R.T. 0.04 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am

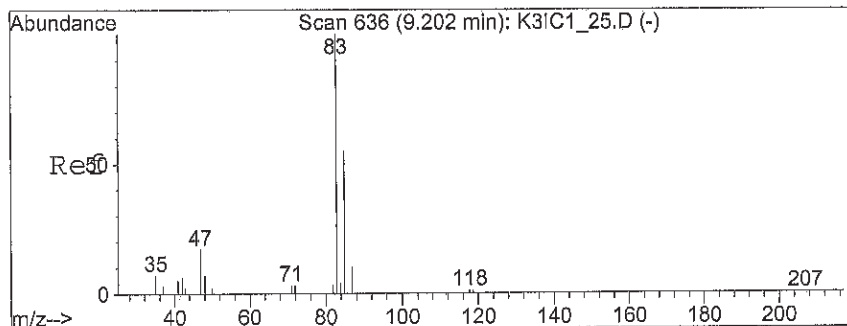
Tgt Ion: 59 Resp: 958
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.4 9.6#



#22
 (DIPE) Diisopropyl Ether
 Concen: 0.02 ug/L
 RT: 8.09 min Scan# 504
 Delta R.T. 0.08 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am

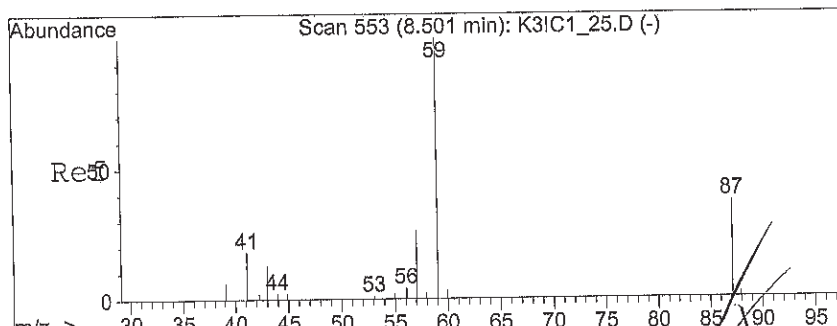
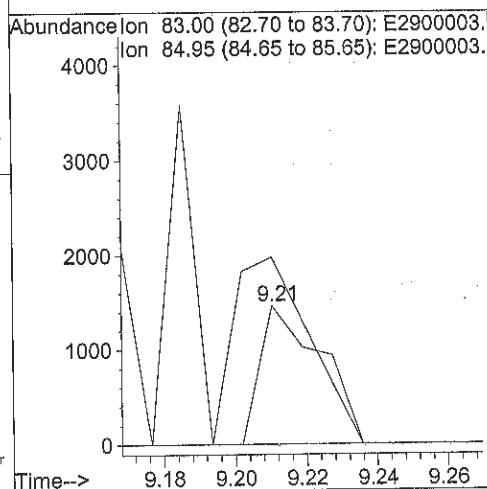
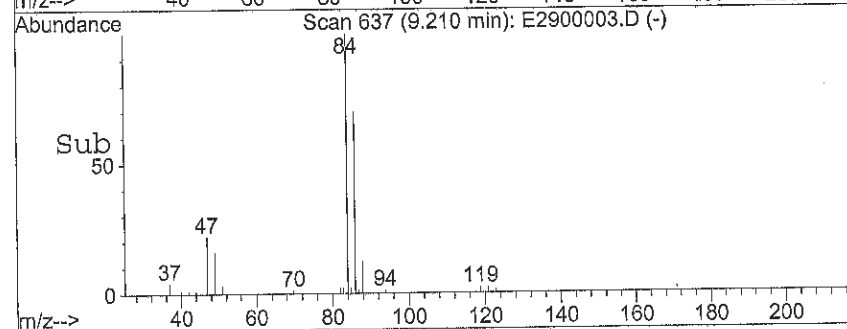
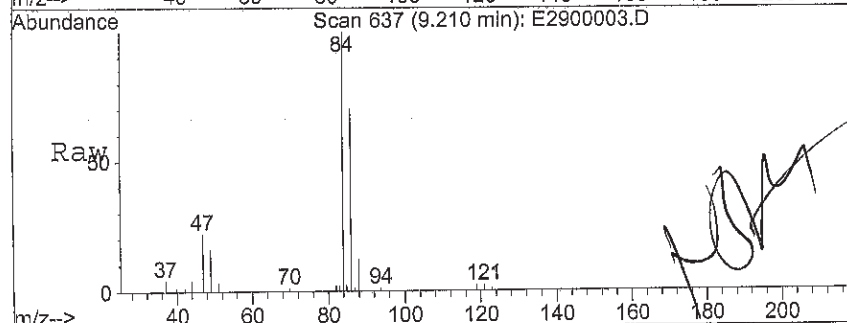
Tgt Ion: 45 Resp: 265
 Ion Ratio Lower Upper
 45 100
 87 0.0 17.0 25.6#
 43 0.0 30.5 45.7#
 59 0.0 7.4 11.2#





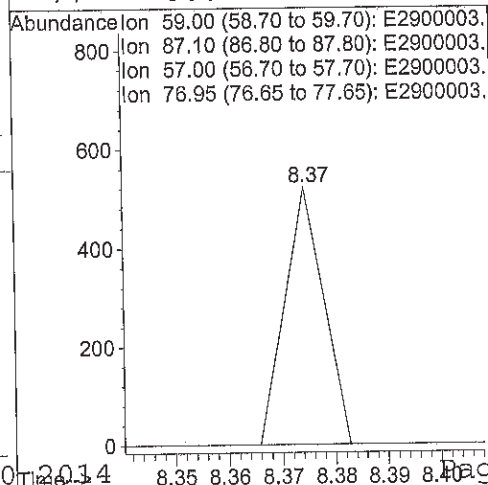
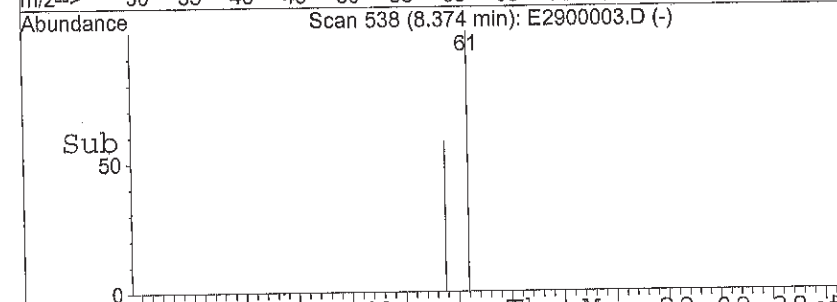
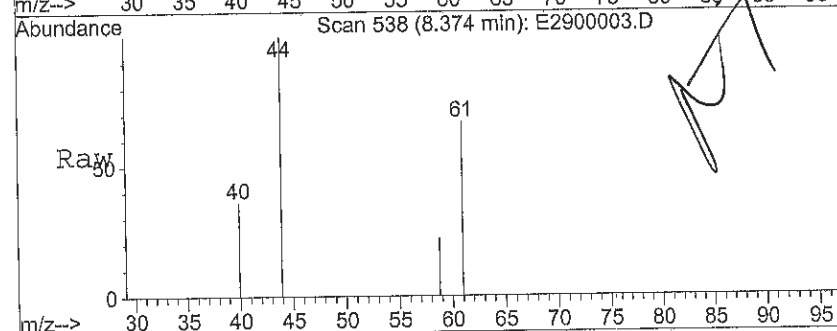
#24
Chloroform
Concen: 0.22 ug/L
RT: 9.21 min Scan# 637
Delta R.T. 0.01 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

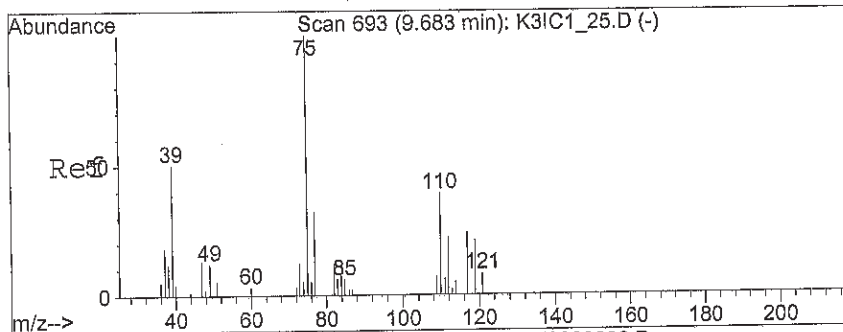
Tgt Ion: 83 Resp: 1732
Ion Ratio Lower Upper
83 100
85 167.7 51.8 77.6#



#25
(ETBE) 2-ethoxy 2-methyl propan
Concen: 0.02 ug/L
RT: 8.37 min Scan# 538
Delta R.T. -0.13 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

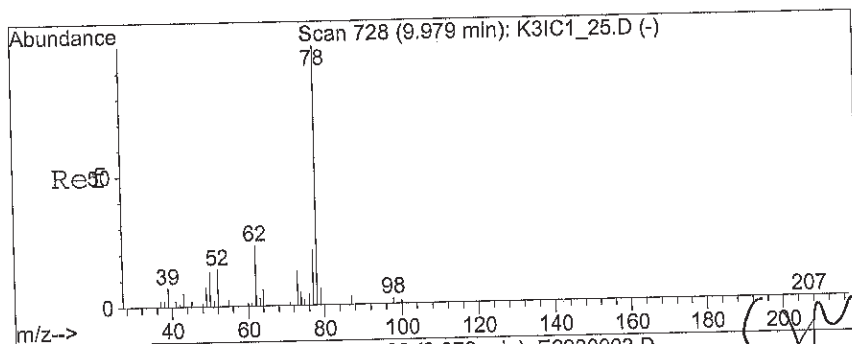
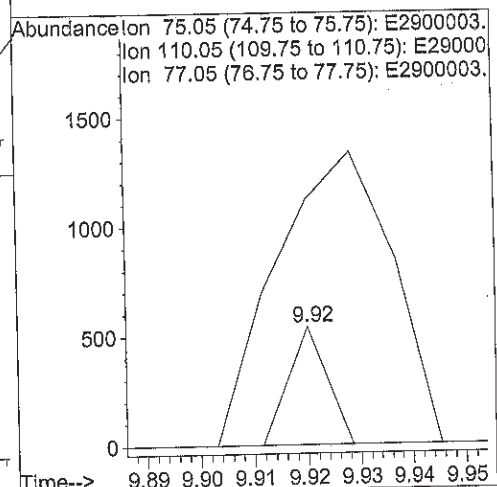
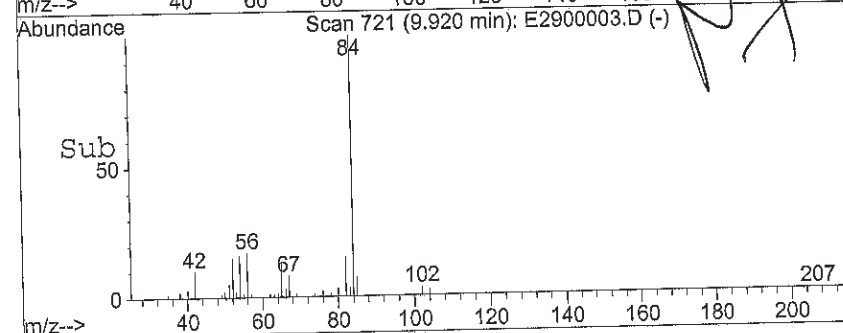
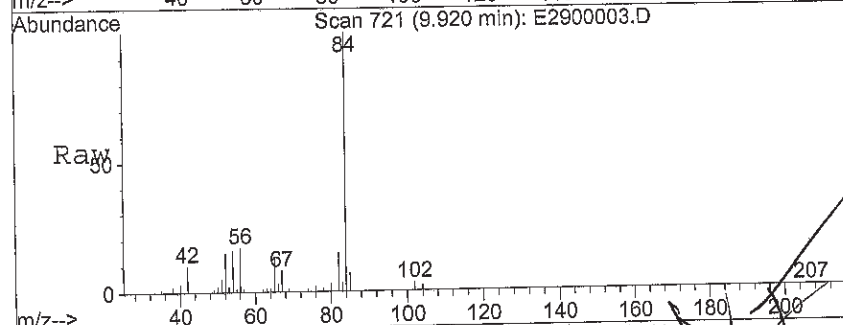
Tgt Ion: 59 Resp: 265
Ion Ratio Lower Upper
59 100
87 0.0 27.8 41.8#
57 0.0 19.8 29.6#
77 0.0 0.0 0.0





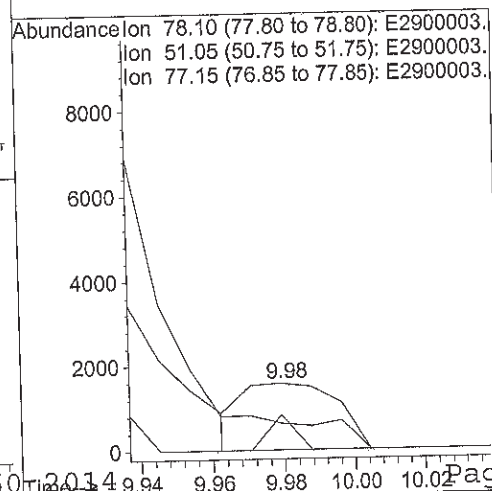
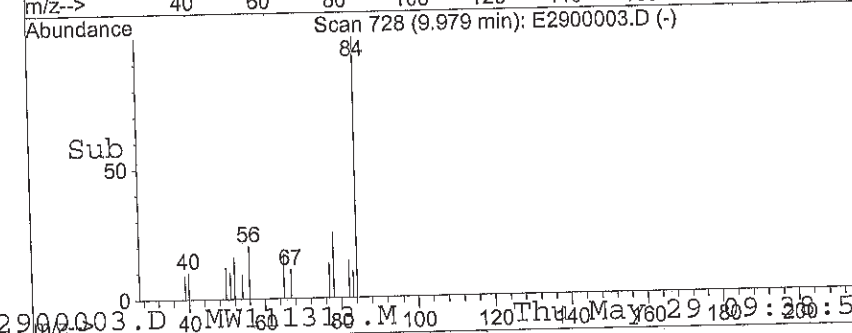
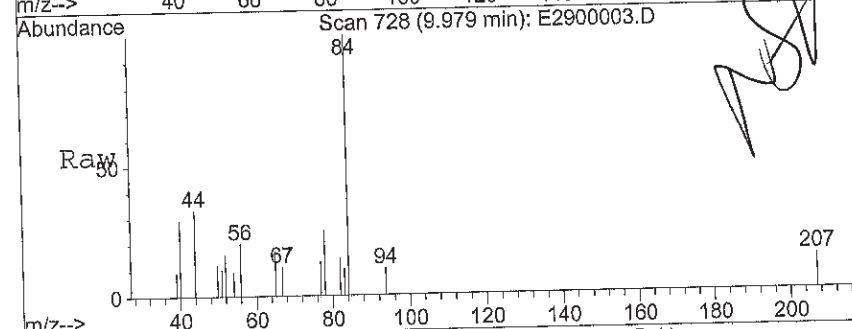
#29
1,1-Dichloropropene
Concen: 0.05 ug/L
RT: 9.92 min Scan# 721
Delta R.T. 0.24 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

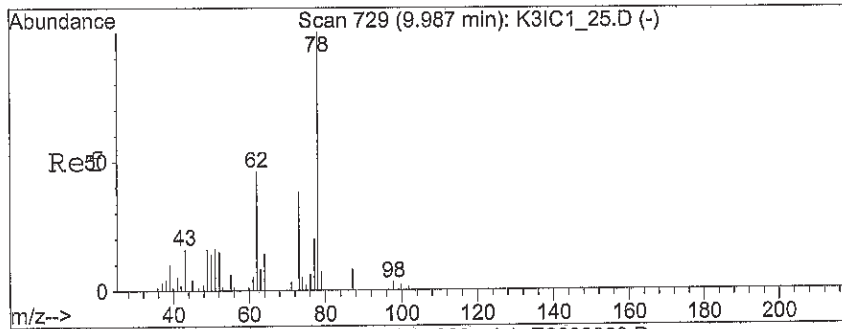
Tgt Ion: 75 Resp: 273
Ion Ratio Lower Upper
75 100
110 0.0 29.0 43.6#
77 741.4 25.0 37.4#



#31
Benzene
Concen: 0.20 ug/L
RT: 9.98 min Scan# 728
Delta R.T. 0.00 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

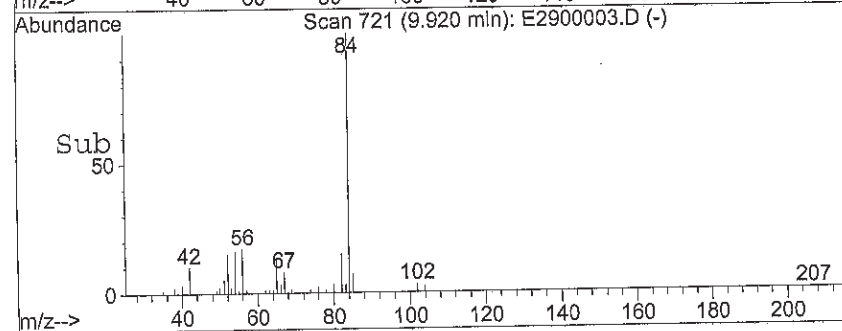
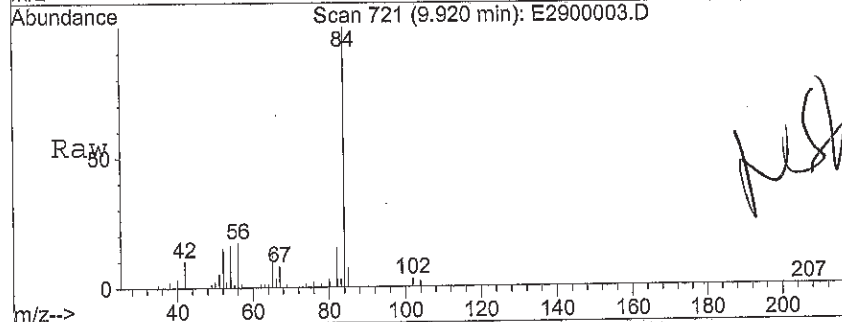
Tgt Ion: 78 Resp: 2886
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 14.6 16.6 24.8#



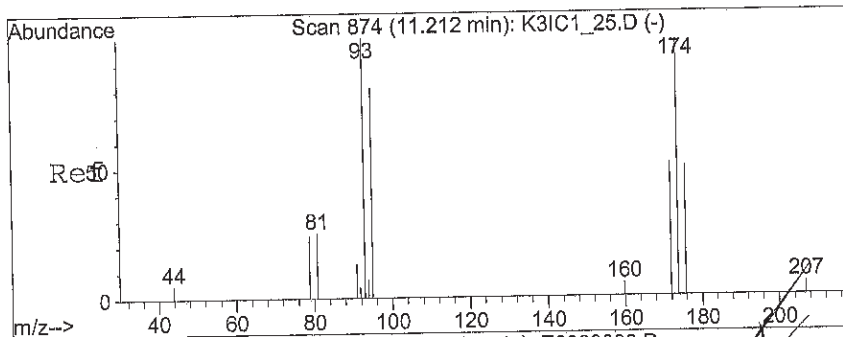
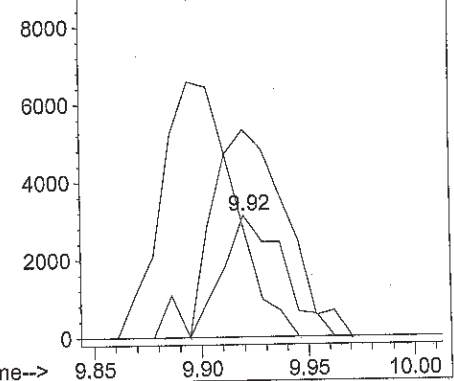


#32
 1,2-Dichloroethane
 Concen: 1.21 ug/L
 RT: 9.92 min Scan# 721
 Delta R.T. -0.07 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am

Tgt Ion: 62 Resp: 6094
 Ion Ratio Lower Upper
 62 100
 64 217.9 28.0 42.0#
 49 0.0 28.5 42.7#
 98 0.0 6.2 9.4#

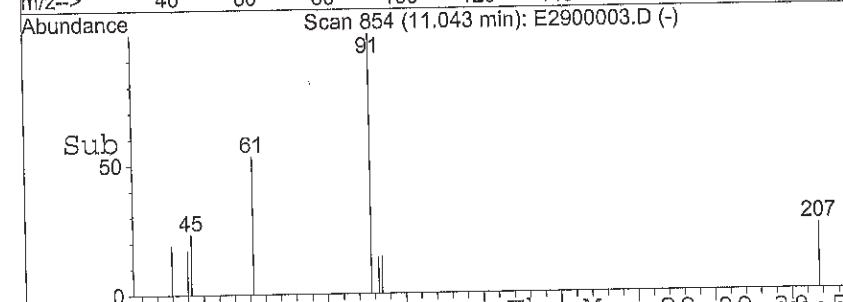
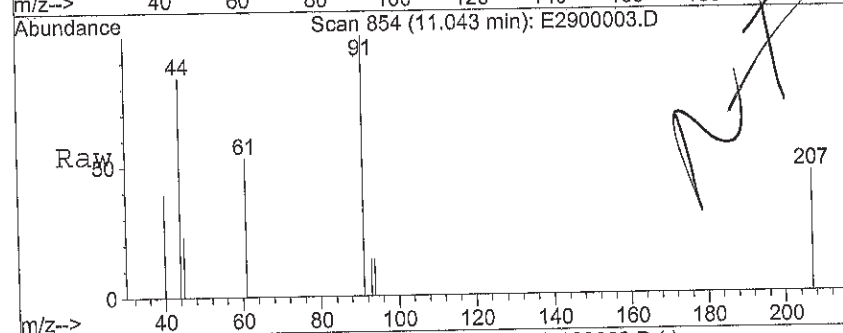


Abundance Ion 62.05 (61.75 to 62.75): E2900003.
 Ion 64.05 (63.75 to 64.75): E2900003.
 Ion 49.00 (48.70 to 49.70): E2900003.
 Ion 98.05 (97.75 to 98.75): E2900003.

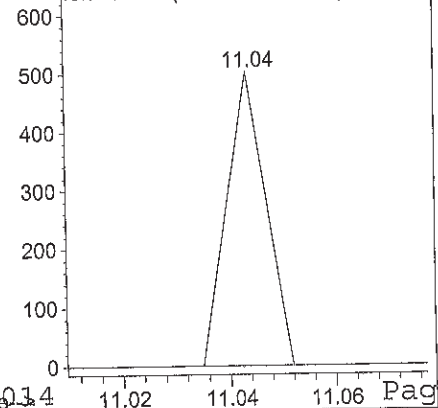


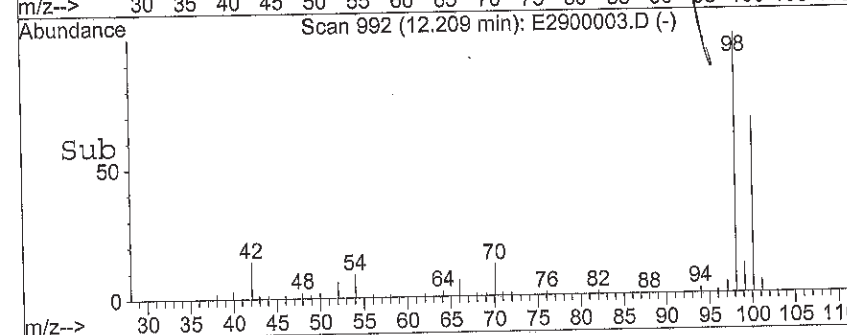
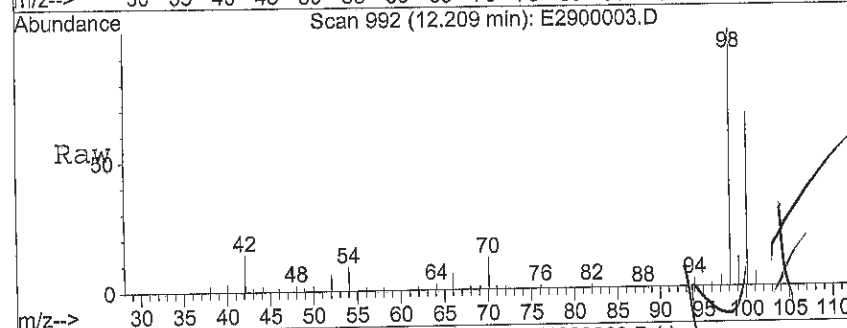
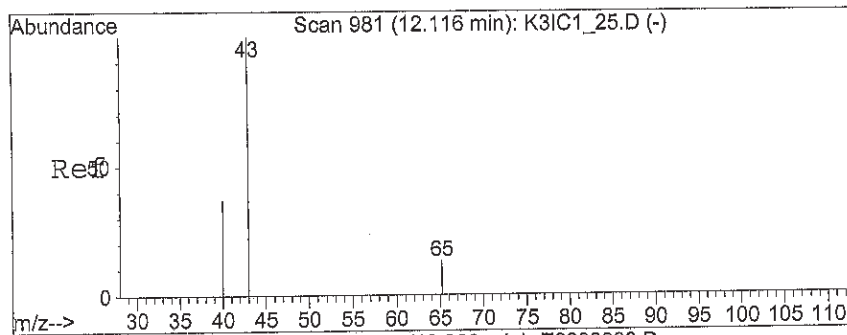
#35
 Dibromomethane
 Concen: 0.10 ug/L
 RT: 11.04 min Scan# 854
 Delta R.T. -0.17 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am

Tgt Ion: 93 Resp: 255
 Ion Ratio Lower Upper
 93 100
 95 0.0 66.2 99.2#
 174 0.0 75.5 113.3#



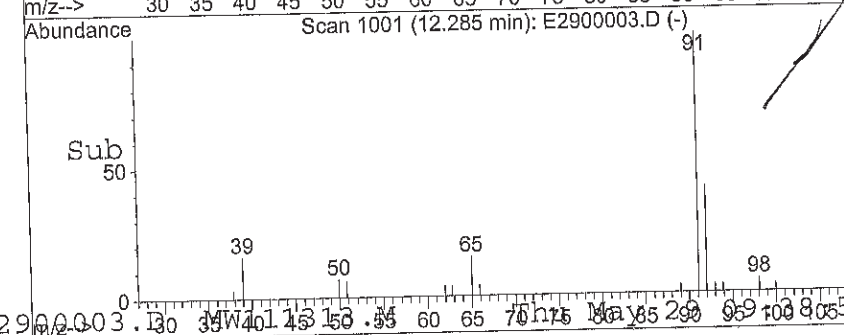
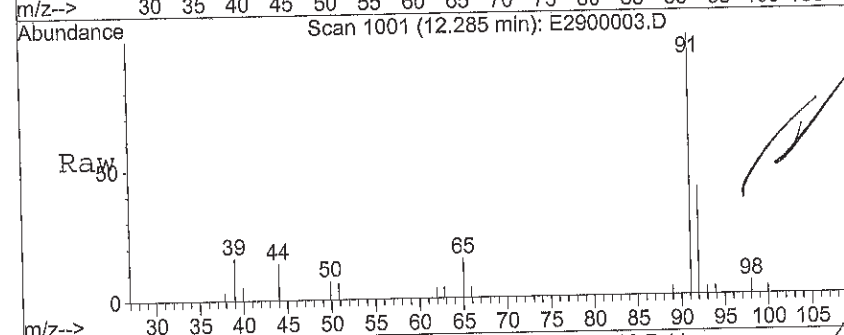
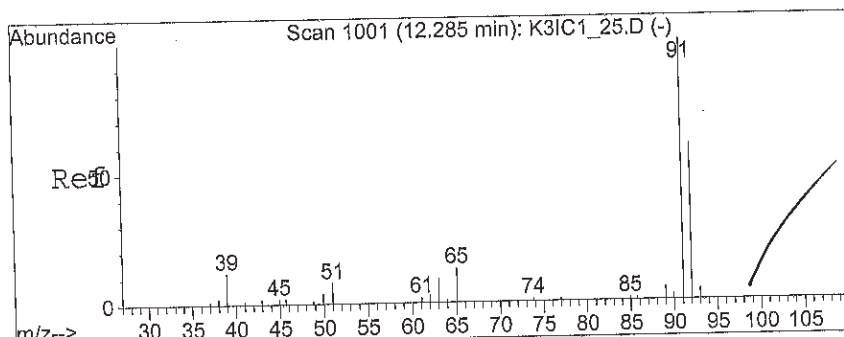
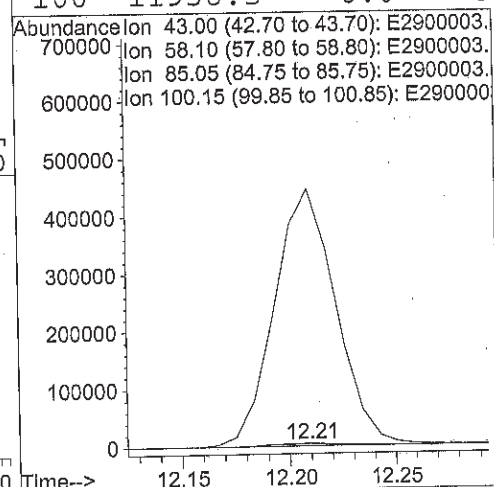
Abundance Ion 93.00 (92.70 to 93.70): E2900003.
 Ion 95.00 (94.70 to 95.70): E2900003.
 Ion 173.90 (173.60 to 174.60): E2900003.





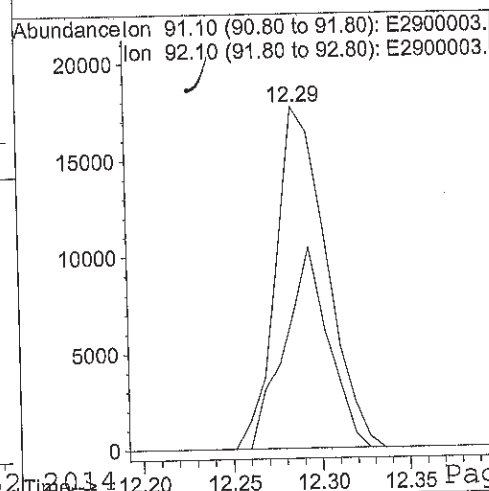
#40
(MIBK) 4-Methyl-2-Pentanone
Concen: 3.05 ug/L
RT: 12.21 min Scan# 992
Delta R.T. 0.09 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

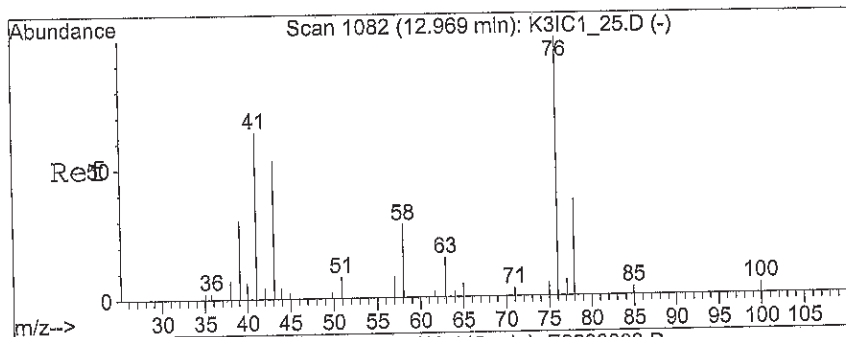
Tgt Ion: 43 Resp: 7469
Ion Ratio Lower Upper
43 100
58 130.2 0.0 0.0#
85 0.0 0.0 0.0
100 11938.5 0.0 0.0#



#41
Toluene
Concen: 2.10 ug/L
RT: 12.29 min Scan# 1001
Delta R.T. 0.00 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

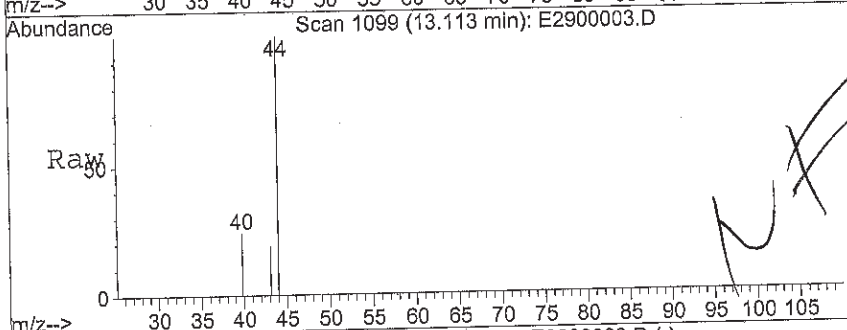
Tgt Ion: 91 Resp: 35142
Ion Ratio Lower Upper
91 100
92 51.2 47.4 71.0





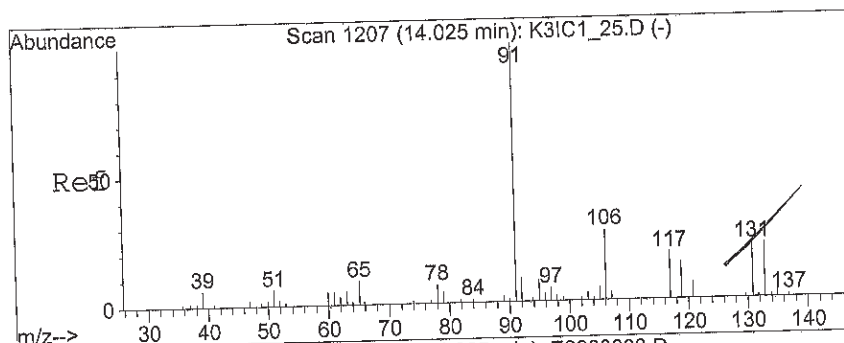
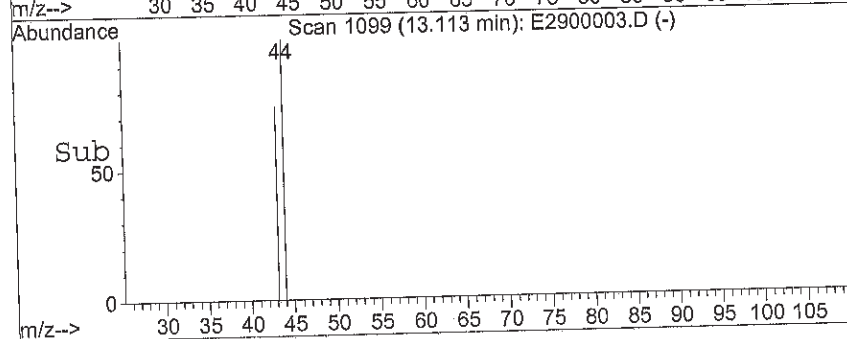
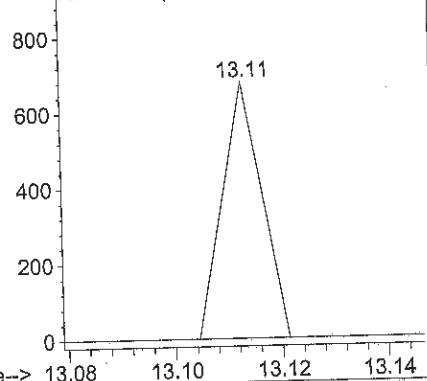
#46
2-Hexanone
Concen: 0.13 ug/L
RT: 13.11 min Scan# 1099
Delta R.T. 0.14 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

Tgt Ion:	43	Resp:	344
Ion Ratio	Lower	Upper	
43	100		
58	0.0	40.9	61.3#
100	0.0	5.5	8.3#
85	0.0	4.3	6.5#



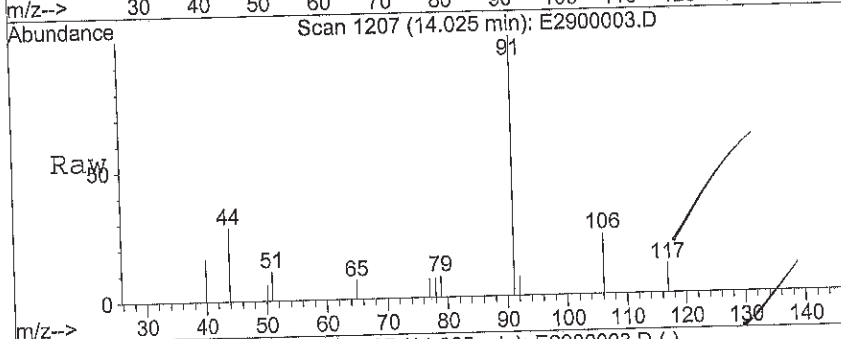
Abundance

Ion 43.00 (42.70 to 43.70): E2900003.
Ion 58.10 (57.80 to 58.80): E2900003.
Ion 100.15 (99.85 to 100.85): E2900003.
Ion 85.05 (84.75 to 85.75): E2900003.



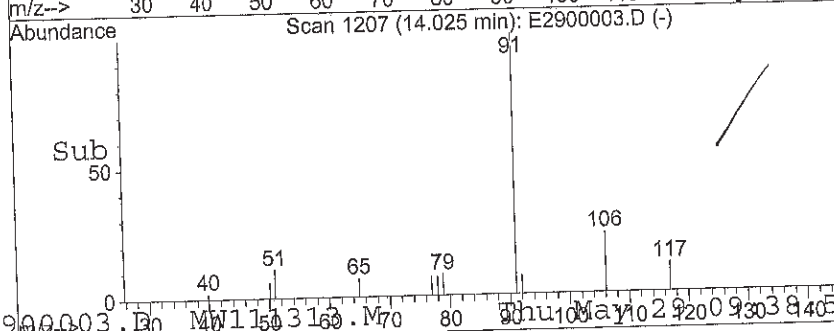
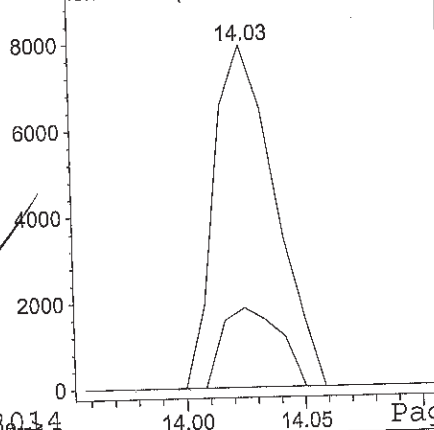
#51
Ethylbenzene
Concen: 0.74 ug/L
RT: 14.03 min Scan# 1207
Delta R.T. 0.00 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

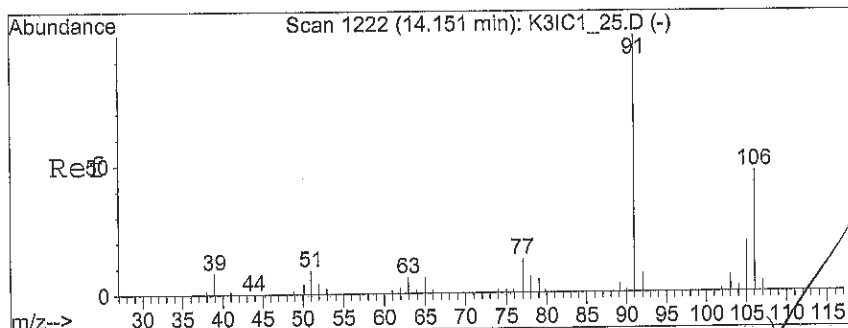
Tgt Ion:	91	Resp:	14143
Ion Ratio	Lower	Upper	
91	100		
106	22.0	23.5	35.3#



Abundance

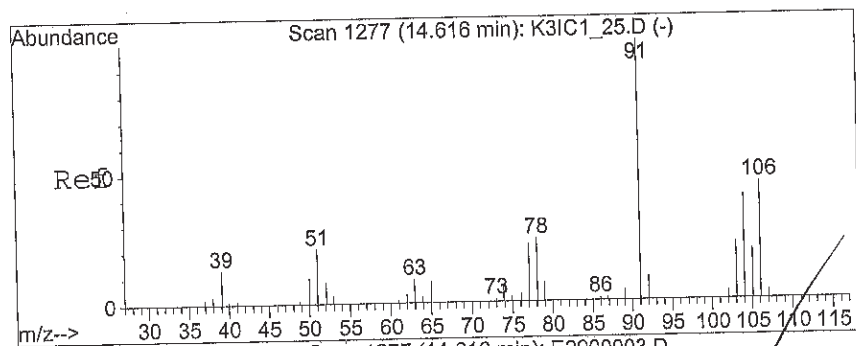
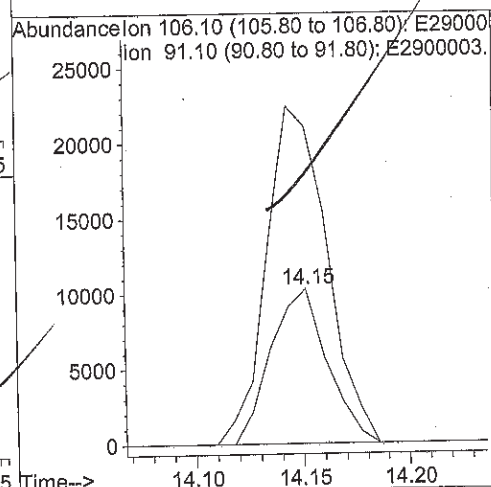
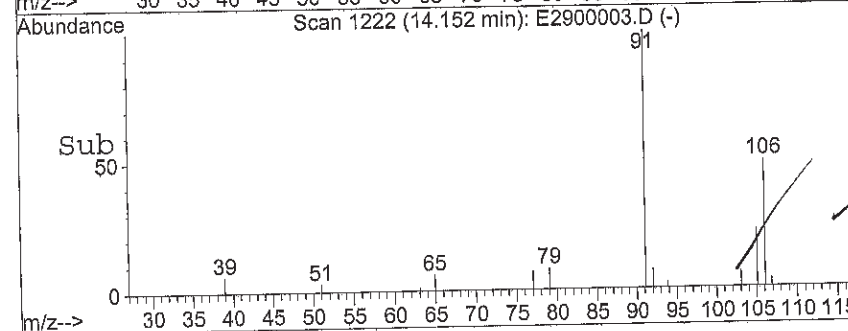
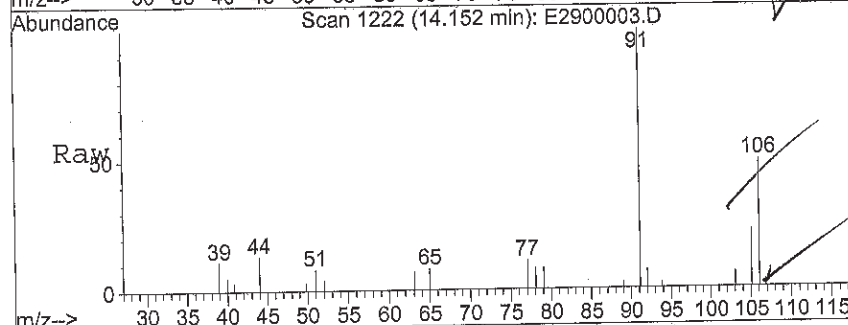
Ion 91.10 (90.80 to 91.80): E2900003.
Ion 106.20 (105.90 to 106.90): E2900003.





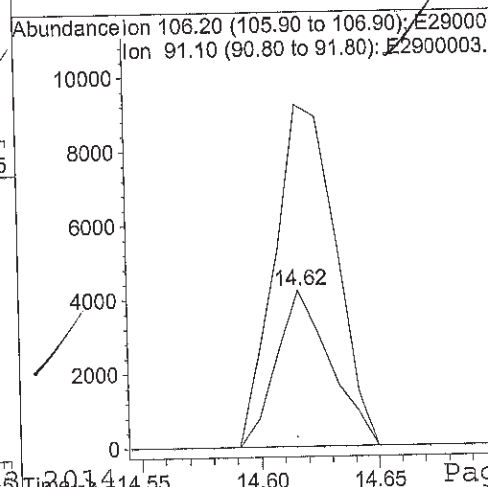
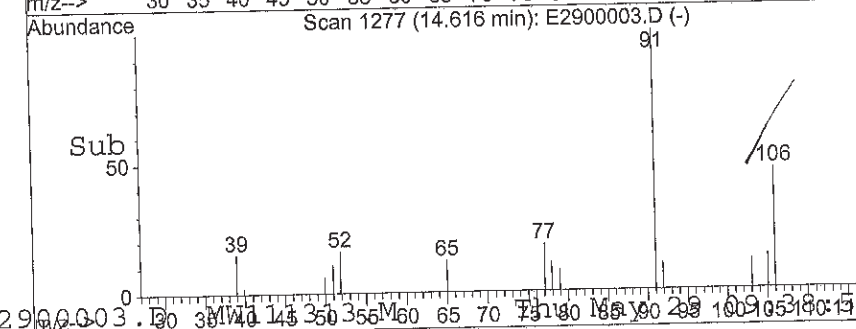
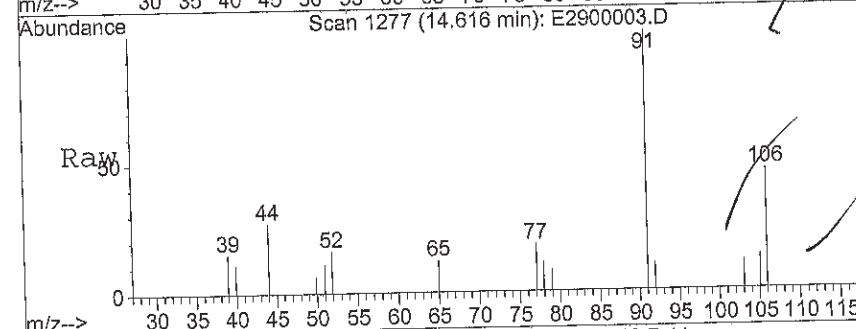
#52
m,p-Xylenes
Concen: 2.78 ug/L
RT: 14.15 min Scan# 1222
Delta R.T. 0.00 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

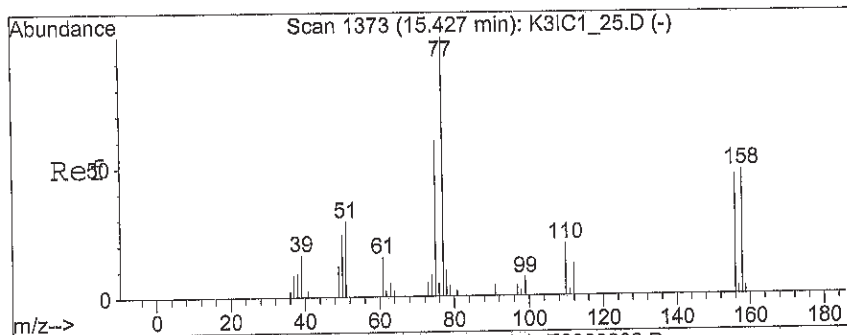
Tgt Ion:106 Resp: 18774
Ion Ratio Lower Upper
106 100
91 233.7 177.1 265.7



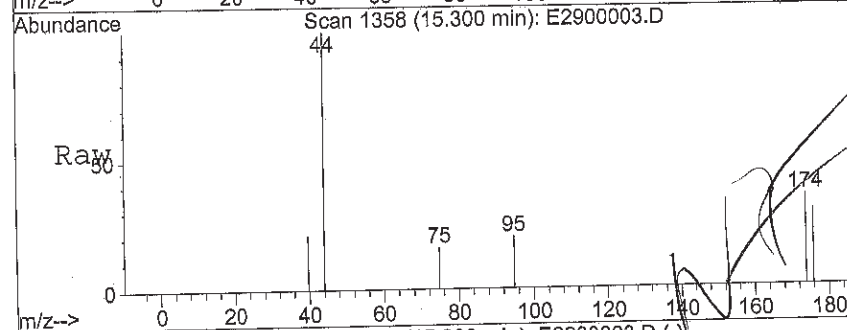
#53
o-Xylene
Concen: 1.00 ug/L
RT: 14.62 min Scan# 1277
Delta R.T. 0.00 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

Tgt Ion:106 Resp: 6648
Ion Ratio Lower Upper
106 100
91 248.8 179.0 268.6

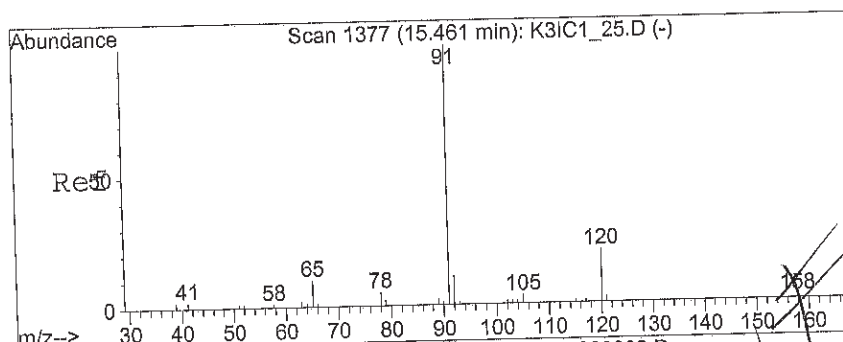
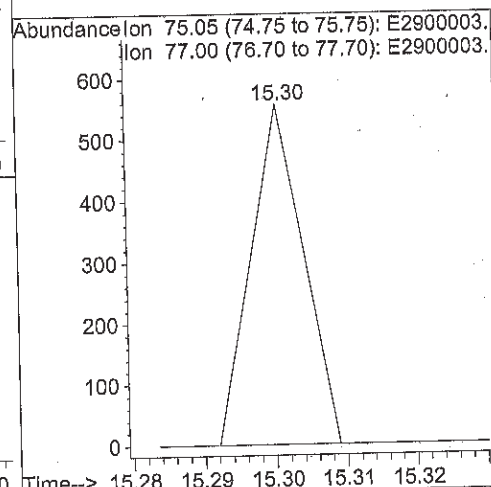
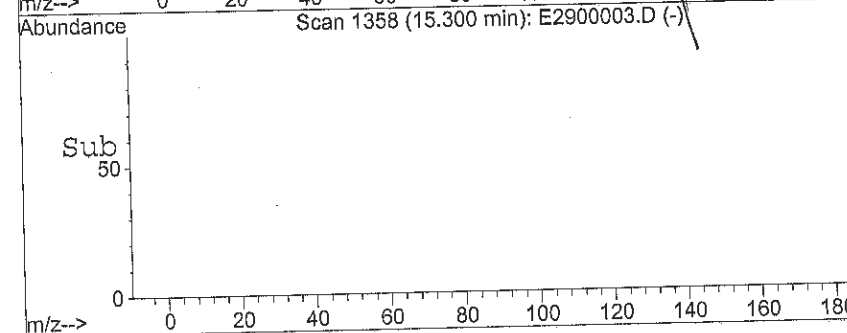




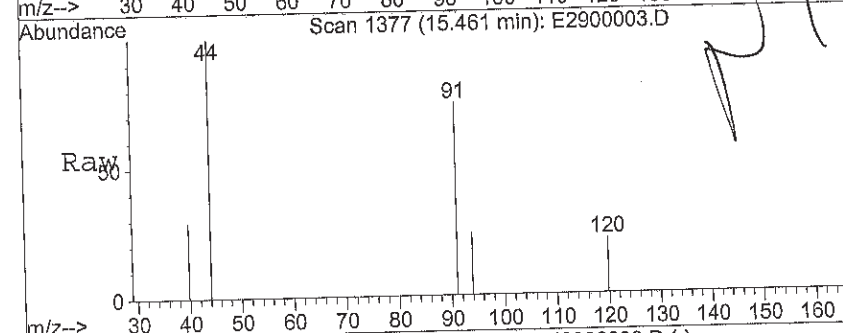
#57
 1,2,3-Trichloropropane
 Concen: 0.06 ug/L
 RT: 15.30 min Scan# 1358
 Delta R.T. -0.13 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am



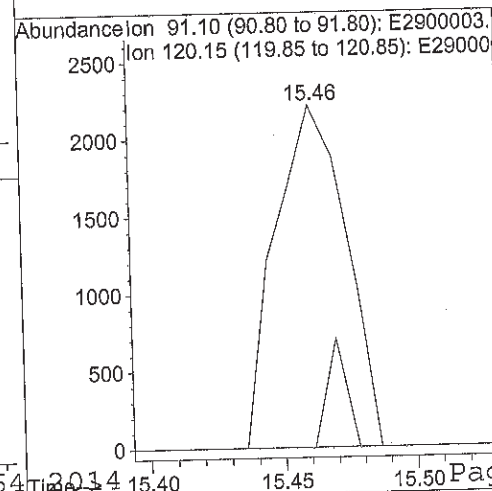
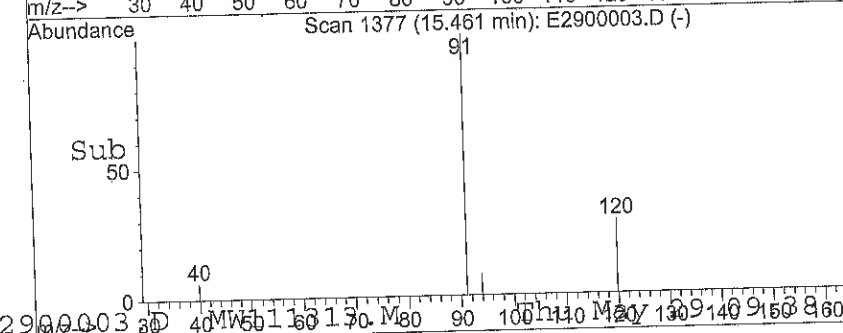
Tgt Ion: 75 Resp: 282
 Ion Ratio Lower Upper
 75 100
 77 0.0 31.2 46.8#

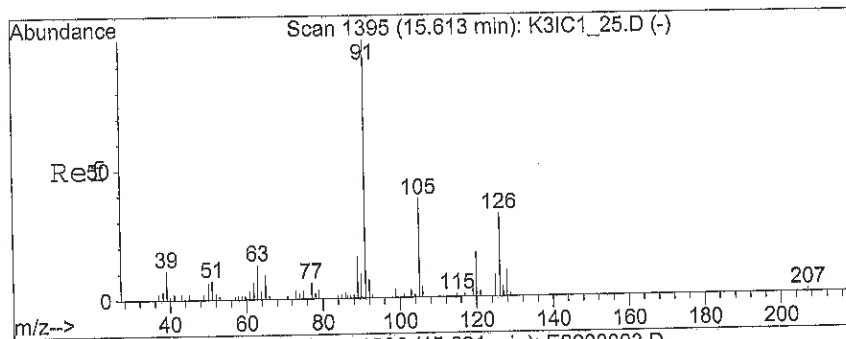


#62
 n-Propylbenzene
 Concen: 0.15 ug/L
 RT: 15.46 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am



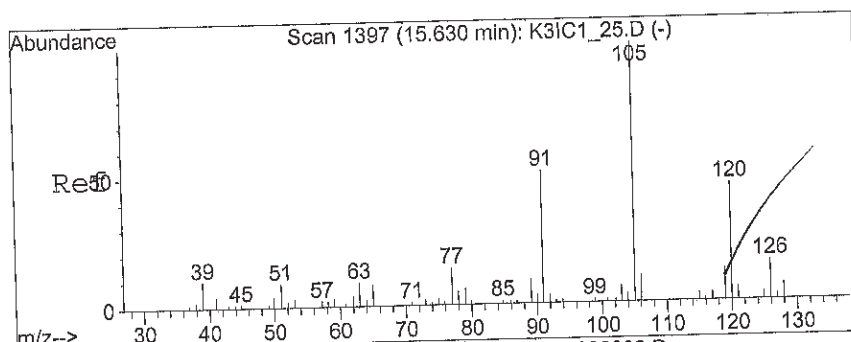
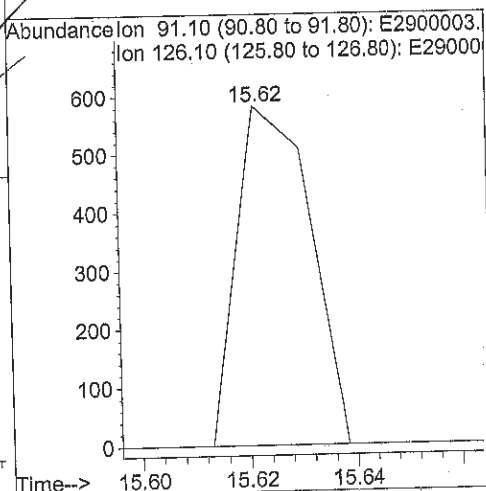
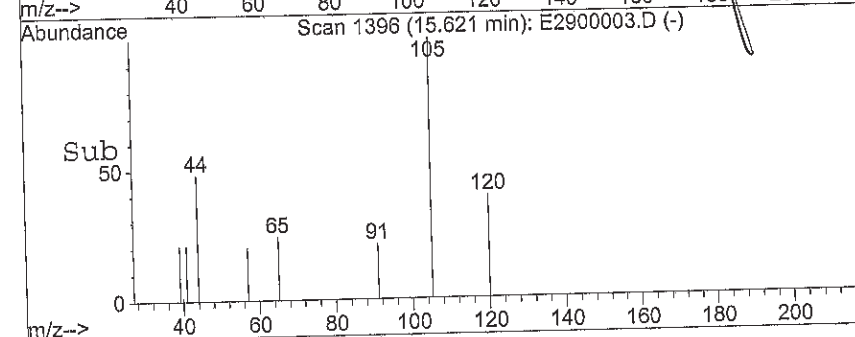
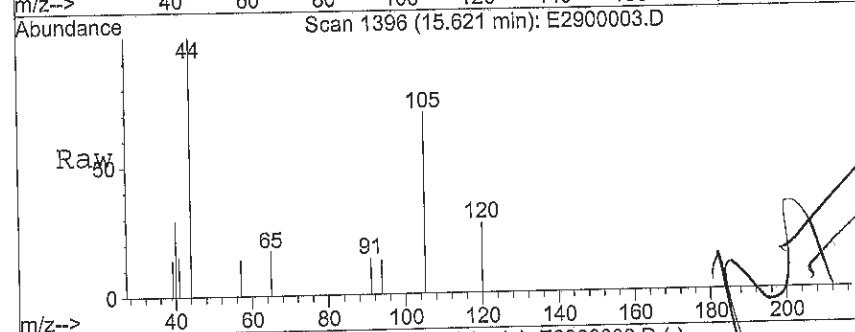
Tgt Ion: 91 Resp: 4077
 Ion Ratio Lower Upper
 91 100
 120 8.7 16.1 24.1#





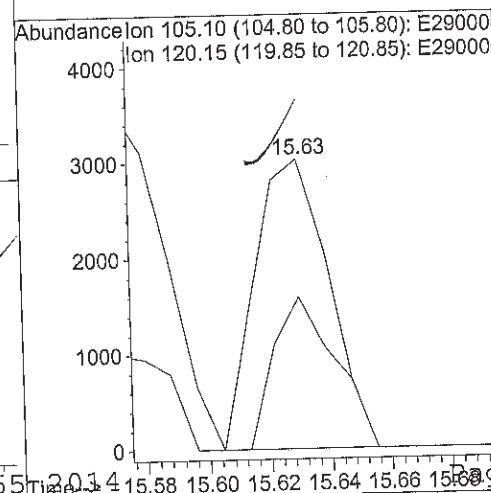
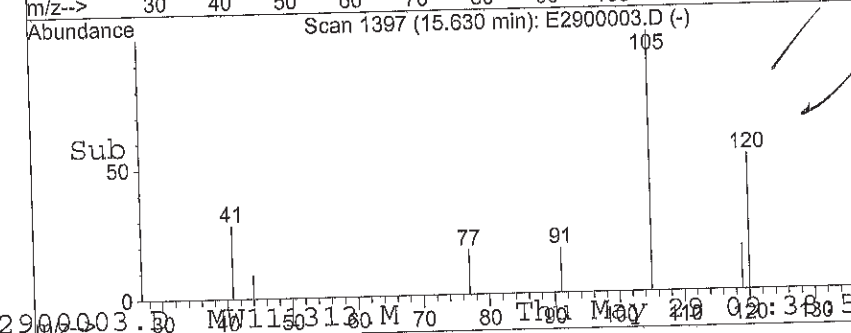
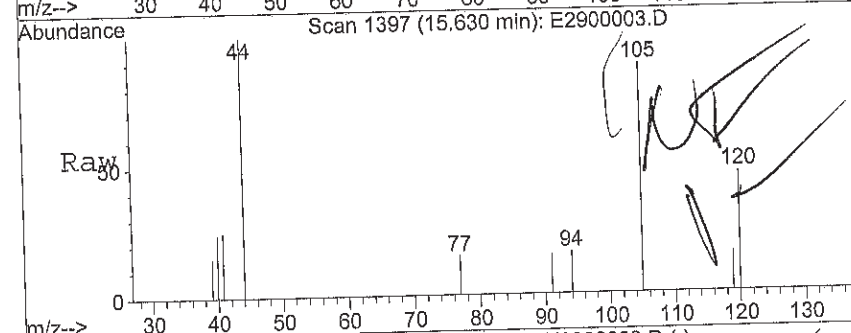
#63
2-Chlorotoluene
Concen: 0.03 ug/L
RT: 15.62 min Scan# 1396
Delta R.T. 0.01 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

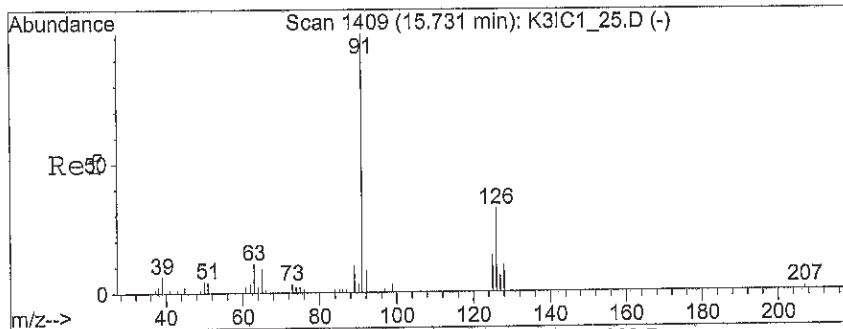
Tgt Ion: 91 Resp: 553
Ion Ratio Lower Upper
91 100
126 0.0 24.0 36.0#



#64
1,3,5-Trimethylbenzene
Concen: 0.30 ug/L
RT: 15.63 min Scan# 1397
Delta R.T. 0.00 min
Lab File: E2900003.D
Acq: 29 May 2014 9:15 am

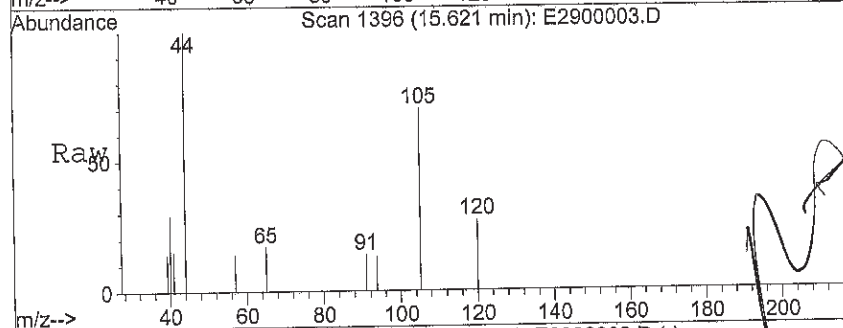
Tgt Ion: 105 Resp: 5088
Ion Ratio Lower Upper
105 100
120 44.3 36.4 54.6



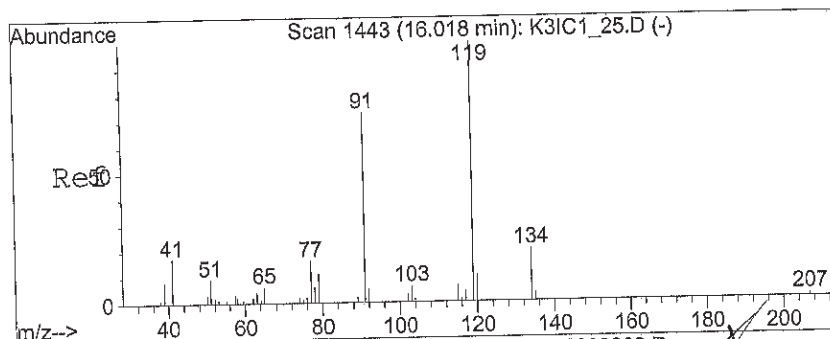
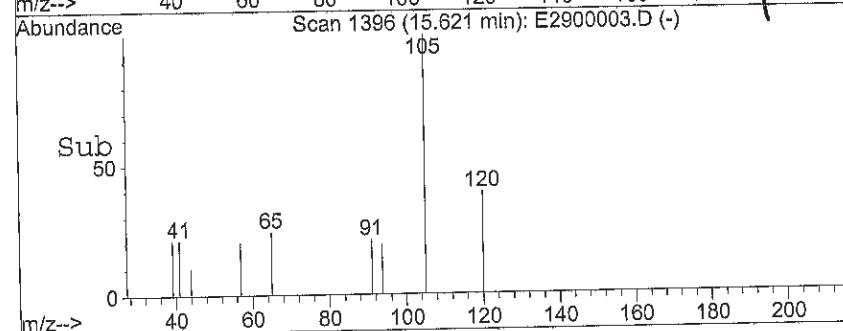
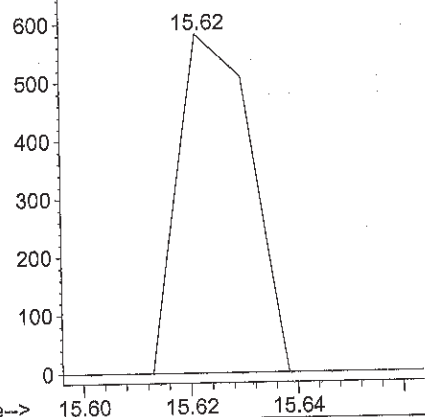


#65
 4-Chlorotoluene
 Concen: 0.04 ug/L
 RT: 15.62 min Scan# 1396
 Delta R.T. -0.11 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am

Tgt Ion: 91 Resp: 553
 Ion Ratio Lower Upper
 91 100
 126 0.0 24.6 36.8#

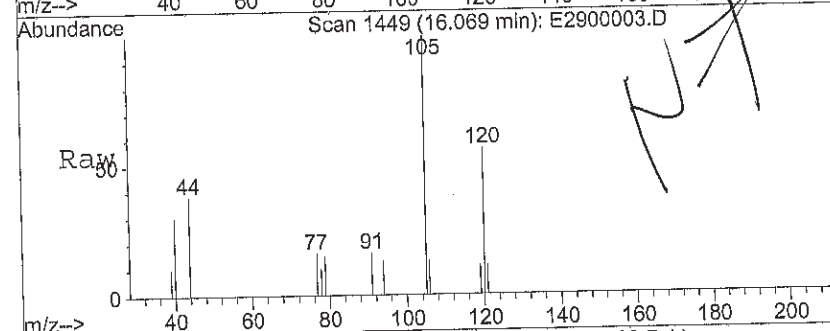


Abundance Ion 91.10 (90.80 to 91.80): E2900003.
 Ion 126.10 (125.80 to 126.80): E2900003.

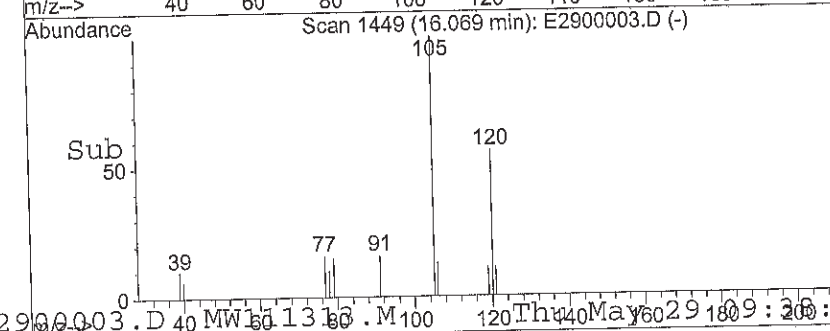
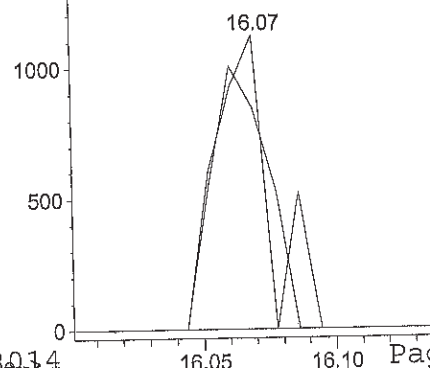


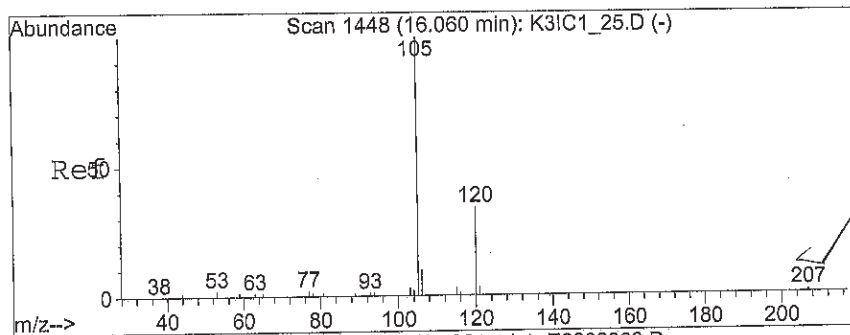
#66
 tert-Butylbenzene
 Concen: 0.11 ug/L
 RT: 16.07 min Scan# 1449
 Delta R.T. 0.05 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am

Tgt Ion: 119 Resp: 1609
 Ion Ratio Lower Upper
 119 100
 91 92.1 56.3 84.5#
 134 0.0 16.1 24.1#



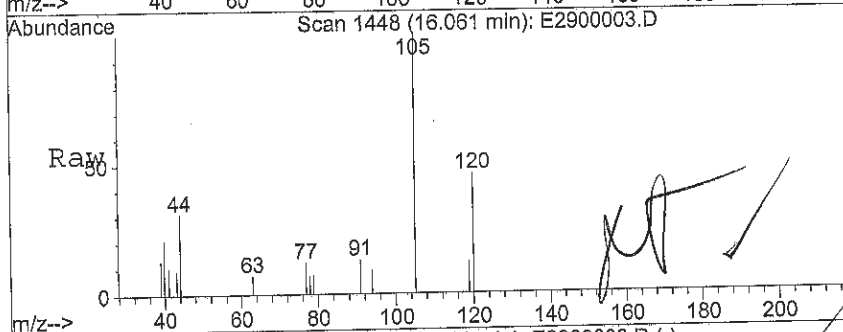
Abundance Ion 119.15 (118.85 to 119.85): E2900003.
 Ion 91.10 (90.80 to 91.80): E2900003.
 Ion 134.15 (133.85 to 134.85): E2900003.



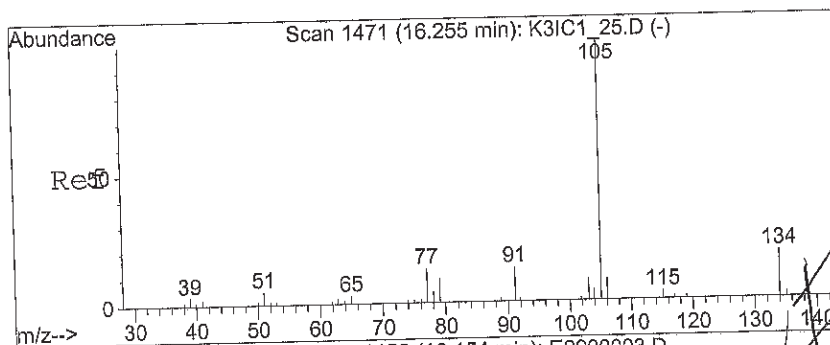
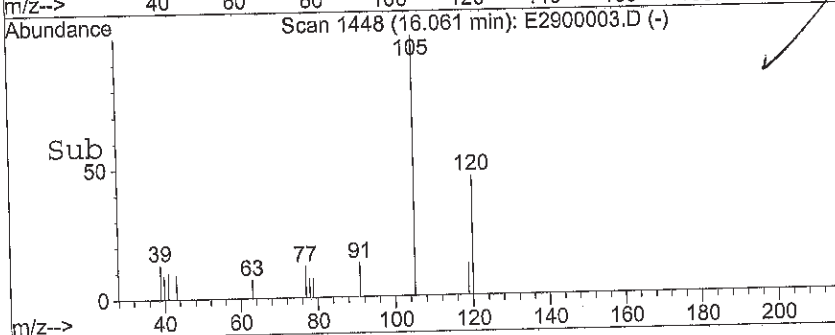
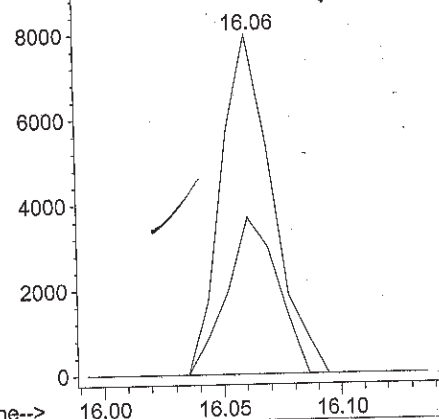


#67
 1,2,4-Trimethylbenzene
 Concen: 0.68 ug/L
 RT: 16.06 min Scan# 1448
 Delta R.T. 0.00 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am

Tgt Ion:105 Resp: 11902
 Ion Ratio Lower Upper
 105 100
 120 46.0 33.8 50.8

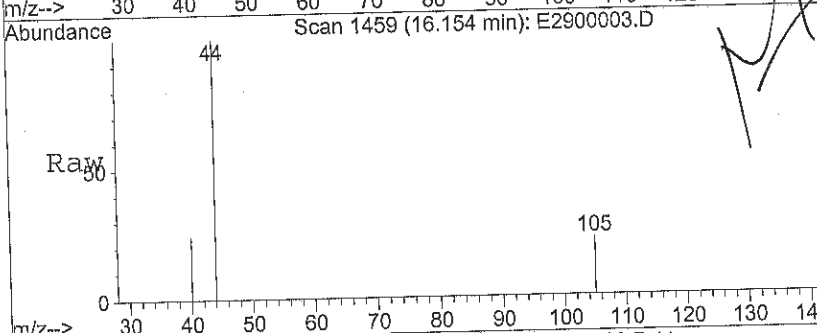


Abundance Ion 105.10 (104.80 to 105.80): E290000
 Ion 120.15 (119.85 to 120.85): E290000

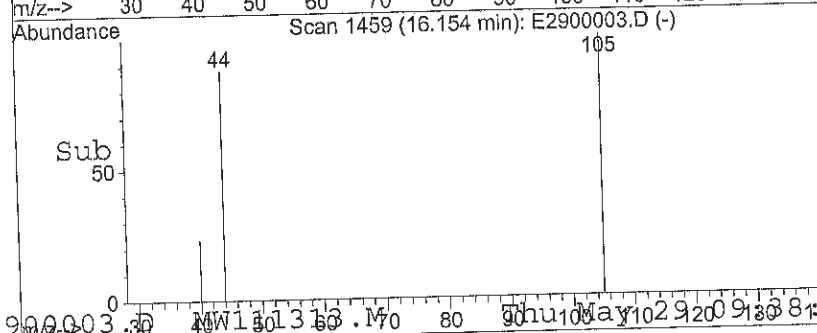
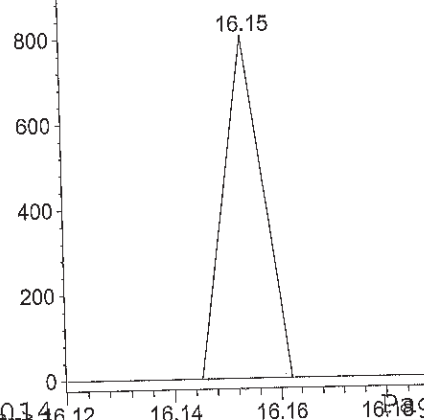


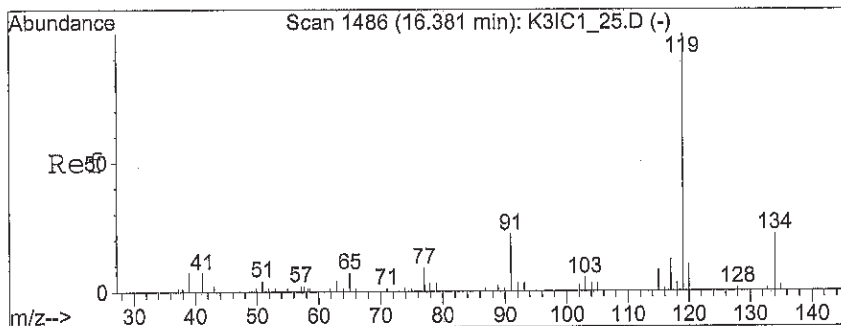
#68
 sec-Butylbenzene
 Concen: 0.02 ug/L
 RT: 16.15 min Scan# 1459
 Delta R.T. -0.10 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am

Tgt Ion:105 Resp: 406
 Ion Ratio Lower Upper
 105 100
 134 0.0 13.0 19.6#



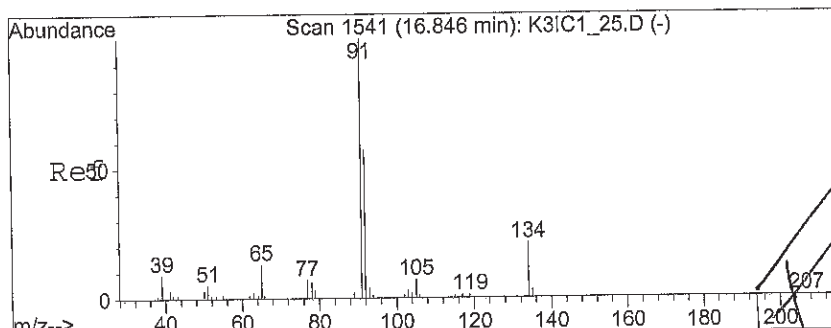
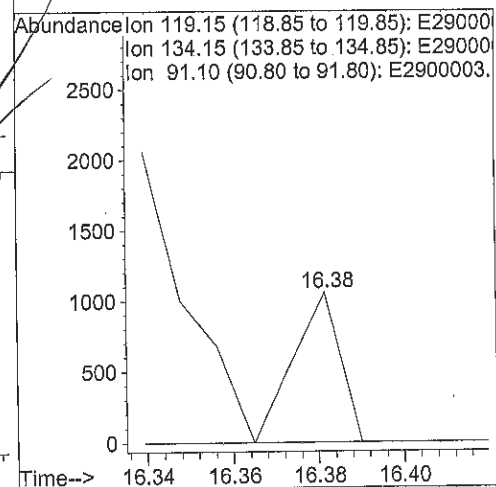
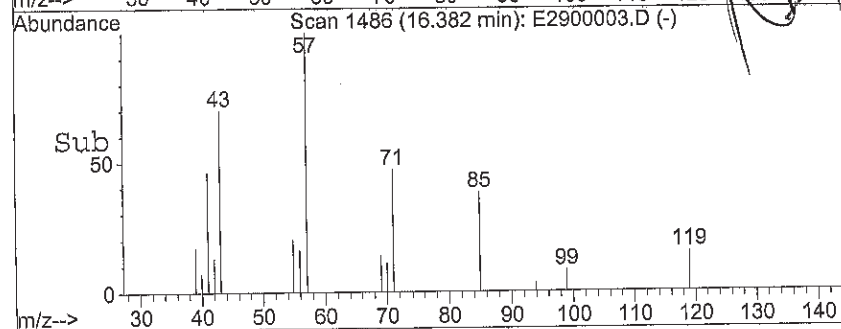
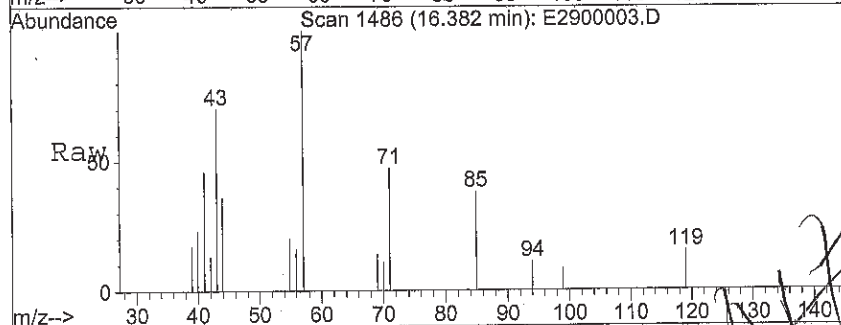
Abundance Ion 105.10 (104.80 to 105.80): E290000
 Ion 134.15 (133.85 to 134.85): E290000





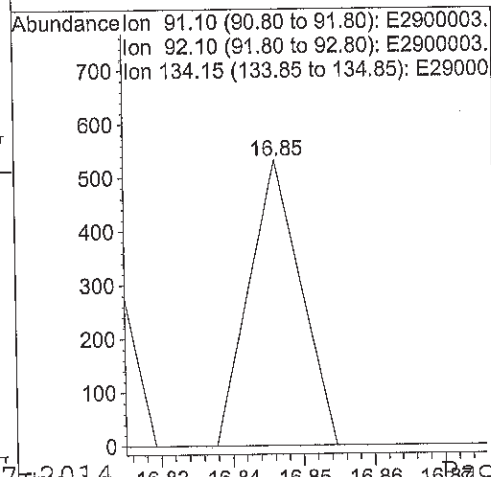
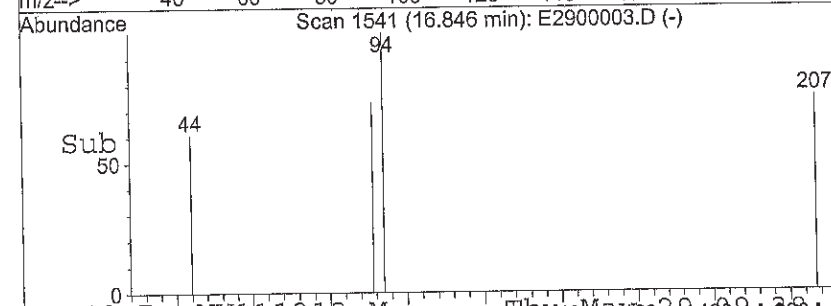
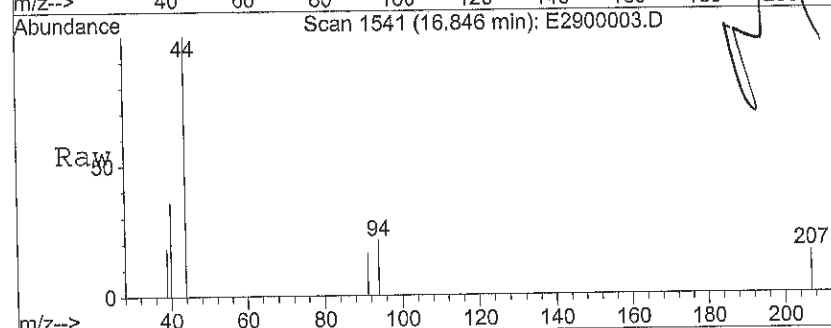
#69
 p-Isopropyltoluene
 Concen: 0.04 ug/L
 RT: 16.38 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am

Tgt Ion: 119 Resp: 805
 Ion Ratio Lower Upper
 119 100
 134 0.0 17.4 26.2#
 91 0.0 19.6 29.4#



#72
 n-Butylbenzene
 Concen: 0.01 ug/L
 RT: 16.85 min Scan# 1541
 Delta R.T. 0.00 min
 Lab File: E2900003.D
 Acq: 29 May 2014 9:15 am

Tgt Ion: 91 Resp: 269
 Ion Ratio Lower Upper
 91 100
 92 0.0 47.0 70.4#
 134 0.0 18.1 27.1#



Data File : C:\HPCHEM\1\DATA\052914L3\E2900003.D Vial: 2
 Acq On : 29 May 2014 9:15 am Operator: DN
 Sample : 34E2901-DUP1 Inst : GC/MS Ins
 Misc : 100cc SVL-544-SA5D-SV-10.0-11.0 Multiplr: 10.00
 MS Integration Params: rteint.p
 Quant Time: May 29 9:38 19114 Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	10.29	96	1515026	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.92	117	1225648	12.50	ug/L	0.00
10) 1,4-Dichlorobenzene-d4 (IS)	16.52	152	671159	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	431751	10.96	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	87.68%
3) Chloroform-d (SU6)	9.19	84	668409	11.82	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	94.56%
4) Methylene Chloride-d2 (SU5)	7.06	86	373952	11.32	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	90.56%
5) 1,2-Dichloroethane-d4 (SU2)	9.89	65	429929	15.97	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	127.76%#
6) Benzene-d6 (SU7)	9.93	84	1311525	11.03	ug/L	-0.02
Spiked Amount	12.500	Range	70 - 140	Recovery	=	88.24%
8) Toluene-d8 (SU3)	12.21	98	1337766	11.50	ug/L	-0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	92.00%
9) 4-Bromofluorobenzene (SU4)	15.22	95	678795	14.14	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	113.12%

Target Compounds

Qvalue

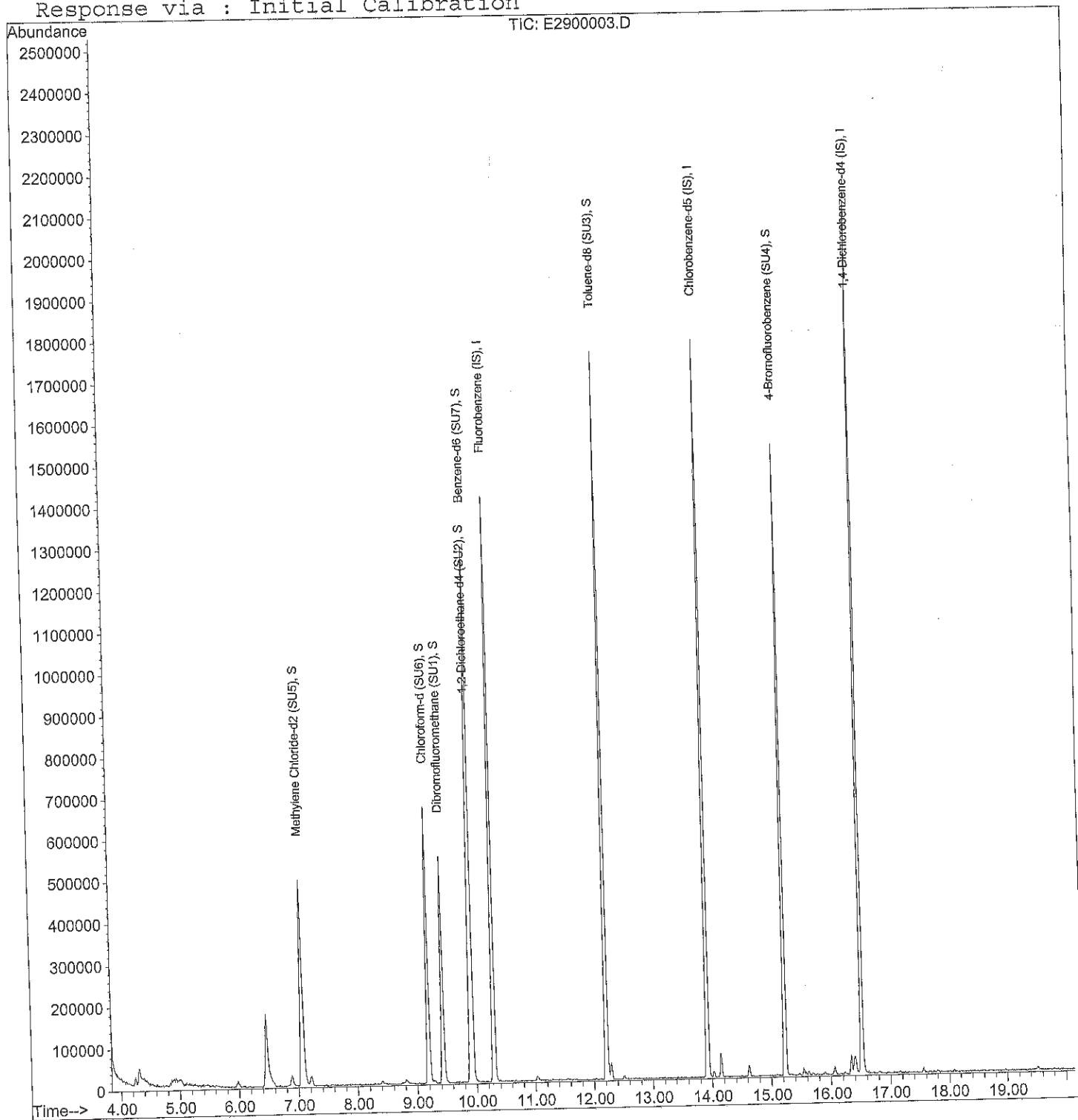
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052914L3\E2900003.D
 Acq On : 29 May 2014 9:15 am
 Sample : 34E2901-DUP1
 Misc : 100cc SVL-544-SA5D-SV-10.0-11.0
 MS Integration Params: rteint.p
 Quant Time: May 29 9:38 19114

Vial: 2
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



**RAW DATA FOR QC SAMPLES AND INITIAL CALIBRATION
LABORATORY CONTROL SAMPLES**

Data File : C:\HPCHEM\1\DATA\052914L3\E29LCS01.D

Vial: 10

Acq On : 29 May 2014 6:38 am

Operator: DN

Sample : 34E2901-BS1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 29 7:09 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.30	96	1513544	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.93	117	1118075	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.52	152	552768	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.45	113	442129	11.71	ug/L	0.03
Spiked Amount	12.500	Range	75 - 125	Recovery	=	93.68%
28) 1,2-Dichloroethane-d4 (SU2)	9.91	65	431806	12.03	ug/L	0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.24%
39) Toluene-d8 (SU3)	12.22	98	1317186	12.63	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	101.04%
58) 4-Bromofluorobenzene (SU4)	15.23	95	594028	12.99	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	103.92%

Target Compounds

					Qvalue
3) (F12) Dichlorodifluorometh	4.11	85	52971	1.43 ug/L	94
4) Chloromethane	4.48	50	34284	1.23 ug/L	99
5) Vinyl Chloride	4.60	62	31751	1.19 ug/L	75
6) Bromomethane	5.13	96	24516	1.29 ug/L	# 56
7) Chloroethane	5.28	64	14482	1.23 ug/L	63
8) (F11) Trichlorofluorometha	5.68	101	60235	1.45 ug/L	95
9) (F113) 1,1,2-Trichloro-tri	6.37	151	39693	1.33 ug/L	99
10) 1,1-Dichloroethene	6.45	96	51104	1.43 ug/L	97
11) Acetone	6.48	58	33396	-12.50 ug/L	# 60
12) (IPA) Leak Check Compound	6.55	45	263139	144.68 ug/L	# 95
13) Carbon disulfide	6.87	76	154184	1.23 ug/L	95
14) Methylene Chloride	7.12	84	55307	1.33 ug/L	93
15) (TBA) tert-Butanol	7.11	59	9416	3.65 ug/L	# 77
16) (MTBE) Methyl-t-butyl ethe	7.42	73	123085	1.44 ug/L	98
17) trans-1,2-Dichloroethene	7.50	96	54145	1.33 ug/L	92
18) 1,1-Dichloroethane	8.09	63	73933	1.09 ug/L	100
19) cis-1,2-Dichloroethene	8.85	96	58076	1.23 ug/L	92
21) (MEK) 2-Butanone	8.80	72	9848	2.31 ug/L	# 53
22) (DIPE) Diisopropyl Ether	8.02	45	162808	1.38 ug/L	98
23) Bromochloromethane	9.18	128	22368	1.10 ug/L	# 83
24) Chloroform	9.23	83	95140	1.20 ug/L	98
25) (ETBE) 2-ethoxy 2-methyl p	8.51	59	113135	1.03 ug/L	# 98

(#)= qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052914L3\E29LCS01.D

Vial: 10

Acq On : 29 May 2014 6:38 am

Operator: DN

Sample : 34E2901-BS1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 29 7:09 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) 1,1,1-Trichloroethane	9.51	97	72030	1.15 ug/L	94
27) (TAME) tert-Amyl methyl et	10.01	73	105240	1.11 ug/L	95
29) 1,1-Dichloropropene	9.70	75	71076	1.22 ug/L	98
30) Carbon Tetrachloride	13.90	117	57676	1.13 ug/L	94
31) Benzene	10.00	78	181266	1.27 ug/L #	93
32) 1,2-Dichloroethane	10.00	62	63816	1.27 ug/L	96
33) Trichloroethene	10.75	130	60820	1.32 ug/L	95
34) 1,2-Dichloropropane	11.06	63	47056	1.38 ug/L #	83
35) Dibromomethane	11.22	93	36600	1.38 ug/L	97
36) Bromodichloromethane	11.36	83	62133	1.16 ug/L	98
37) cis-1,3-Dichloropropene	11.88	75	62445	1.07 ug/L	93
40) (MIBK) 4-Methyl-2-Pentanone	12.12	43	26965	1.21 ug/L #	100
41) Toluene	12.30	91	190640	1.25 ug/L	98
42) trans-1,3-Dichloropropene	12.51	75	48831	0.97 ug/L	72
43) 1,1,2-Trichloroethane	12.77	83	40463	1.47 ug/L	92
44) Tetrachloroethene	12.95	164	60156	1.12 ug/L	96
45) 1,3-Dichloropropane	12.98	76	70028	1.34 ug/L	98
46) 2-Hexanone	12.99	43	65174	2.66 ug/L #	97
47) Dibromochloromethane	13.26	129	48637	1.24 ug/L #	94
48) 1,2-Dibromoethane	13.43	107	52563	1.48 ug/L	98
49) Chlorobenzene	13.97	112	134834	1.31 ug/L	98
50) 1,1,1,2-Tetrachloroethane	14.02	131	44351	1.21 ug/L	98
51) Ethylbenzene	14.03	91	224569	1.30 ug/L	98
52) m,p-Xylenes	14.15	106	163446	2.65 ug/L	99
53) o-Xylene	14.62	106	84402	1.39 ug/L	94
54) Styrene	14.63	104	130975	1.49 ug/L	98
55) Bromoform	14.92	173	31266	1.40 ug/L #	94
56) Isopropylbenzene	15.01	105	219944	1.32 ug/L	99
57) 1,2,3-Trichloropropane	15.43	75	80960	1.78 ug/L #	1
60) 1,1,2,2-Tetrachloroethane	15.34	83	65580	1.65 ug/L	99
61) Bromobenzene	15.44	156	57939	1.33 ug/L	97
62) n-Propylbenzene	15.47	91	289508	1.30 ug/L	97
63) 2-Chlorotoluene	15.62	91	182936	1.33 ug/L	97
64) 1,3,5-Trimethylbenzene	15.64	105	178716	1.30 ug/L	99
65) 4-Chlorotoluene	15.73	91	173225	1.36 ug/L	100
66) tert-Butylbenzene	16.02	119	148634	1.27 ug/L	94
67) 1,2,4-Trimethylbenzene	16.07	105	192356	1.34 ug/L	98

(#)=qualifier out of range (m)=manual integration

Data File : C:\HPCHEM\1\DATA\052914L3\E29LCS01.D

Vial: 10

Acq On : 29 May 2014 6:38 am

Operator: DN

Sample : 34E2901-BS1

Inst : GC/MS Ins

Misc : 20cc 1.25/2.5/12.5 ug/L LCS

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: May 29 7:09 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
68) sec-Butylbenzene	16.25	105	248773	1.34	ug/L	99
69) p-Isopropyltoluene	16.39	119	190518	1.26	ug/L	97
70) 1,3-Dichlorobenzene	16.45	146	108623	1.33	ug/L	99
71) 1,4-Dichlorobenzene	16.54	146	110235	1.35	ug/L	97
72) n-Butylbenzene	16.85	91	213125	1.34	ug/L	97
73) 1,2-Dichlorobenzene	17.00	146	101232	1.39	ug/L	98
74) 1,2-Dibromo-3-chloropropan	17.94	75	13505	2.17	ug/L #	57
75) 1,2,4-Trichlorobenzene	19.04	180	67554	1.37	ug/L	96
76) Hexachlorobutadiene	19.21	225	30858	1.39	ug/L	98
77) Naphthalene	19.46	128	171234	1.57	ug/L	100
78) Hexachloroethane	17.30	201	21007	1.31	ug/L #	86
79) 1,2,3-Trichlorobenzene	19.83	180	60288	1.29	ug/L	98

(#) = qualifier out of range (m) = manual integration

E29LCS01.D MW111313.M

Thu May 29 07:09:39 2014

Page 3

RAW DATA FOR QC SAMPLES AND INITIAL CALIBRATION
BLANK

Data File : C:\HPCHEM\1\DATA\052914L3\E29BLK01.D

Vial: 11

Acq On : 29 May 2014 7:39 am

Operator: DN

Sample : 34E2901-BLK1

Inst : GC/MS Ins

Misc : 100cc AMBIENT AIR/H2O

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 29 8:01 19114

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL 11/13/13 DN

Last Update : Wed Nov 13 19:38:32 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1637712	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1287902	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	712164	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	461987	11.31	ug/L	0.01
Spiked Amount	12.500	Range	75 - 125	Recovery	=	90.48%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	440900	11.36	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	90.88%
39) Toluene-d8 (SU3)	12.20	98	1438243	11.97	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	95.76%
58) 4-Bromofluorobenzene (SU4)	15.23	95	718141	13.63	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	109.04%

Target Compounds

					Qvalue	
4) Chloromethane	4.41	50	6366	1.10	ug/L #	SM 54
6) Bromomethane	5.10	96	1032	-1.20	ug/L #	1
7) Chloroethane	5.25	64	1245	1.60	ug/L #	32
11) Acetone	6.46	58	4117	1.36	ug/L #	44
12) (IPA) Leak Check Compound	6.46	45	508091	2581.83	ug/L #	SM 82
14) Methylene Chloride	7.06	84	5401	1.20	ug/L #	1
15) (TBA) tert-Butanol	7.14	59	274	0.98	ug/L #	77
20) 2,2-Dichloropropane	8.84	77	259	0.04	ug/L #	SM 1
22) (DIPE) Diisopropyl Ether	7.85	45	334	0.03	ug/L #	48
24) Chloroform	9.21	83	4797	0.56	ug/L #	18
29) 1,1-Dichloropropene	9.91	75	296	0.05	ug/L #	1
31) Benzene	9.93	78	11166	0.72	ug/L #	78
32) 1,2-Dichloroethane	9.92	62	5924	1.09	ug/L #	1
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	7209	2.80	ug/L #	100
41) Toluene	12.29	91	10430	0.59	ug/L #	0.0118 91
46) 2-Hexanone	13.11	43	860	0.31	ug/L #	T 37
51) Ethylbenzene	14.02	91	1370	0.07	ug/L #	SM 45
52) m,p-Xylenes	14.15	106	1393	0.20	ug/L #	0.02 63
54) Styrene	14.64	104	1928	-0.68	ug/L #	SM 53
56) Isopropylbenzene	15.22	105	1511	0.08	ug/L #	1
62) n-Propylbenzene	15.46	91	1255	0.04	ug/L #	56
63) 2-Chlorotoluene	15.46	91	1255	0.07	ug/L #	45

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052914L3\E29BLK01.D Vial: 11
Acq On : 29 May 2014 7:39 am Operator: DN
Sample : 34E2901-BLK1 Inst : GC/MS Ins
Misc : 100cc AMBIENT AIR/H2O Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: May 29 8:01 19114 Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
64) 1,3,5-Trimethylbenzene	15.63	105	1382	0.08	ug/L # <i>MSM</i>	31
67) 1,2,4-Trimethylbenzene	16.06	105	5208	0.28	ug/L # <i>0.056</i>	7
68) sec-Butylbenzene	16.06	105	5208	0.22	ug/L # <i>MSM</i>	62
69) p-Isopropyltoluene	16.38	119	7742	0.40	ug/L #	88
72) n-Butylbenzene	16.85	91	354	0.02	ug/L #	30
77) Naphthalene	19.44	128	761	0.05	ug/L #	100

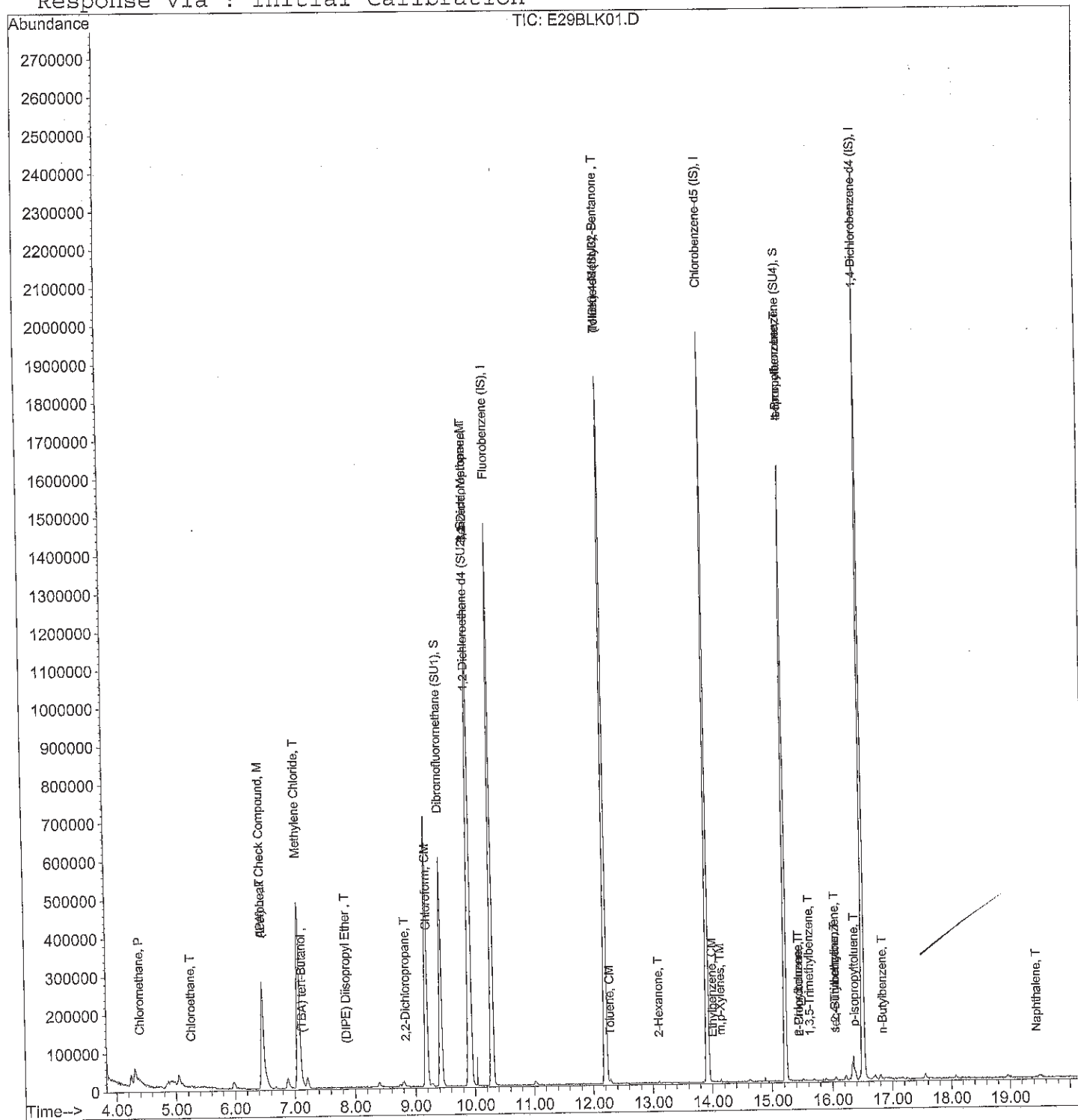
Quantitation Report

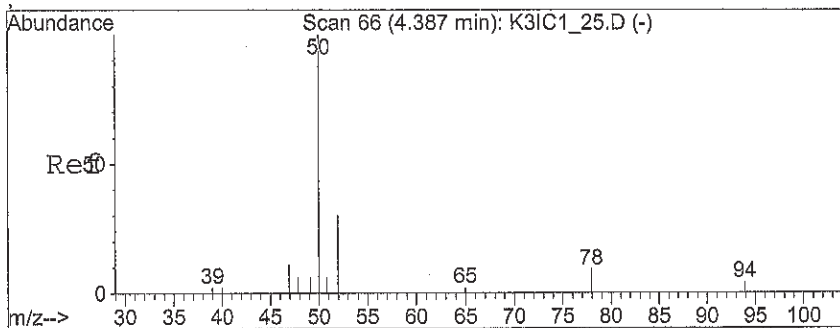
Data File : C:\HPCHEM\1\DATA\052914L3\E29BLK01.D
 Acq On : 29 May 2014 7:39 am
 Sample : 34E2901-BLK1
 Misc : 100cc AMBIENT AIR/H2O
 MS Integration Params: rteint.p
 Quant Time: May 29 8:01 19114

Vial: 11
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

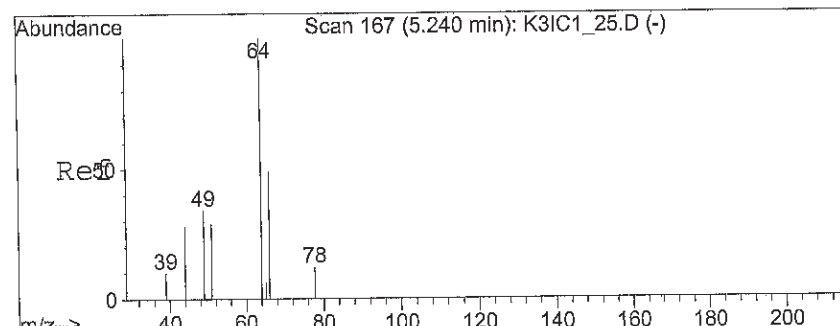
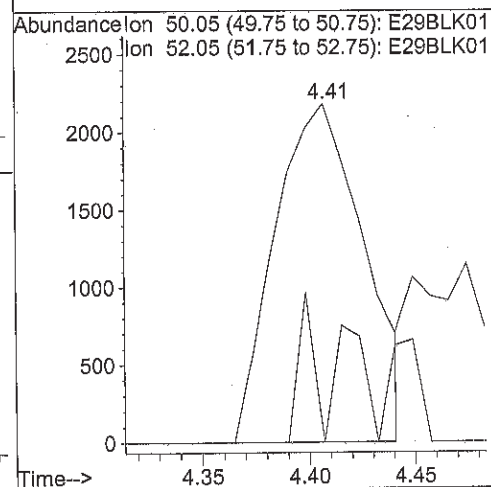
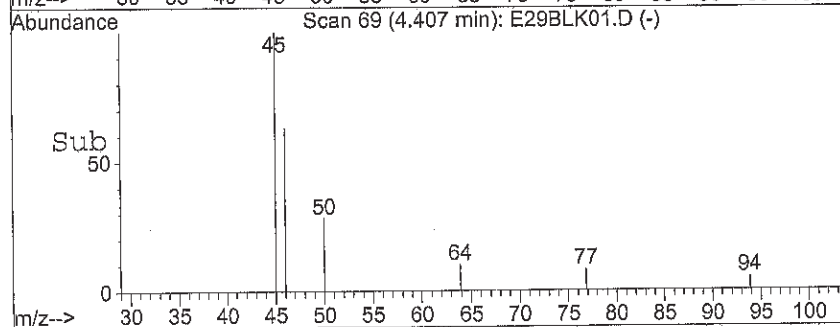
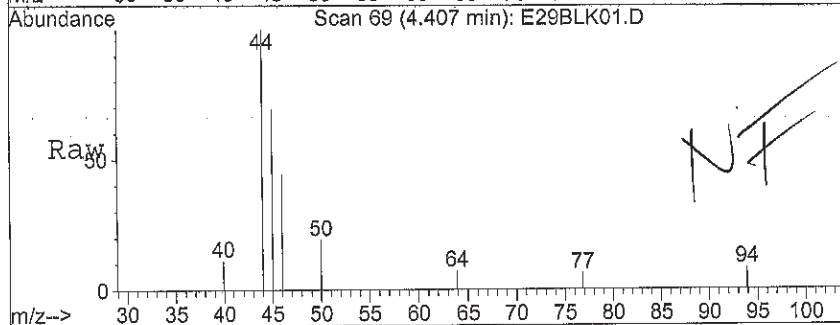
Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration





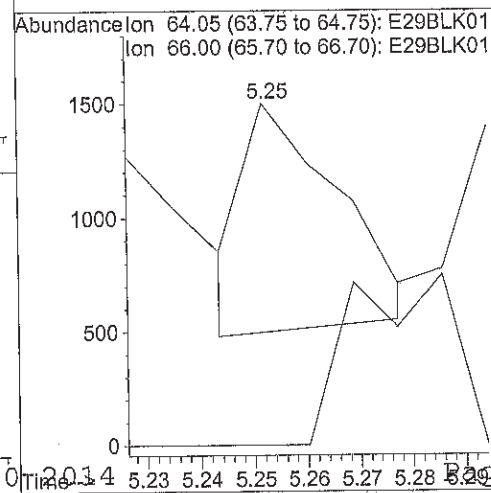
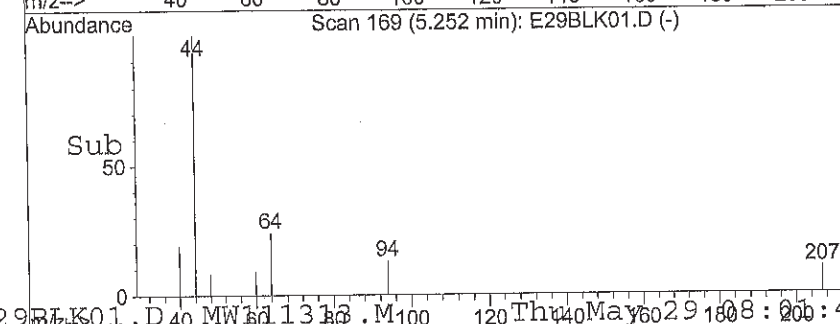
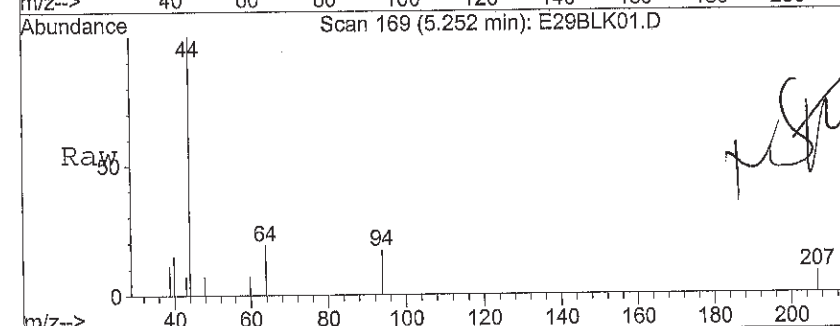
#4
Chloromethane
Concen: 1.10 ug/L
RT: 4.41 min Scan# 69
Delta R.T. 0.02 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

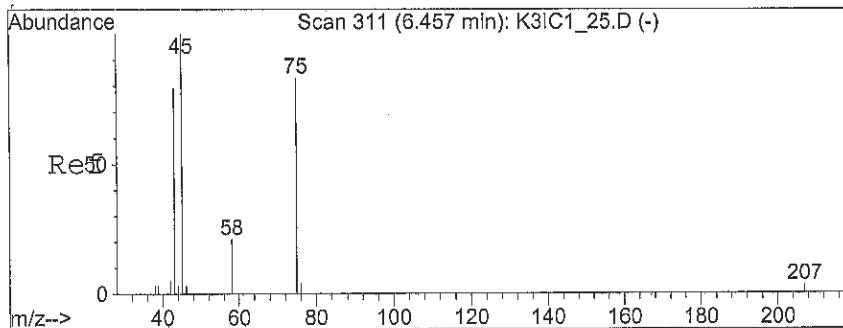
Tgt Ion: 50 Resp: 6366
Ion Ratio Lower Upper
50 100
52 7.7 26.9 40.3#



#7
Chloroethane
Concen: 1.60 ug/L
RT: 5.25 min Scan# 169
Delta R.T. 0.01 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

Tgt Ion: 64 Resp: 1245
Ion Ratio Lower Upper
64 100
66 0.0 35.4 53.0#





#11

Acetone

Concen: 1.36 ug/L

RT: 6.46 min Scan# 312

Delta R.T. 0.00 min

Lab File: E29BLK01.D

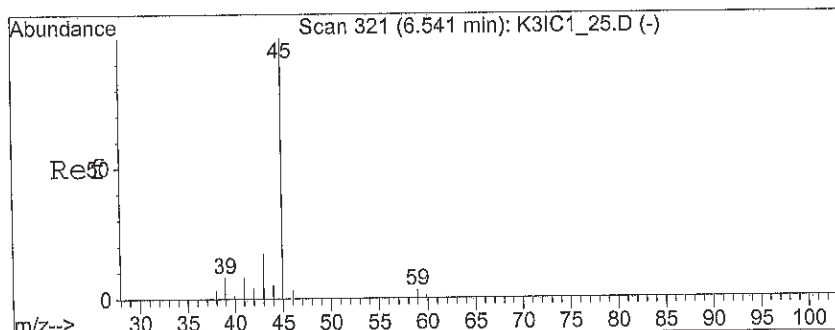
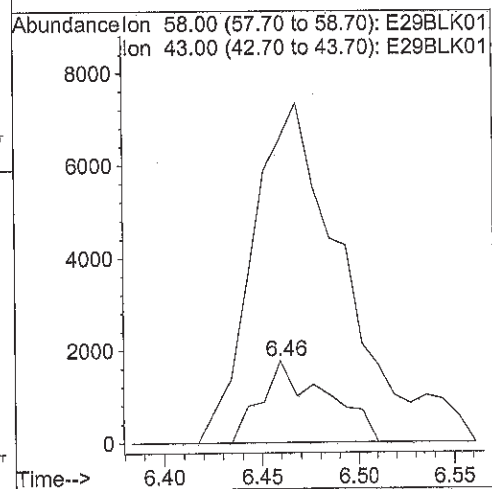
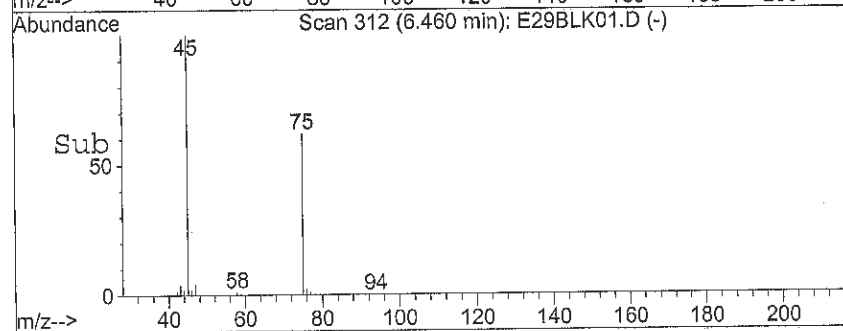
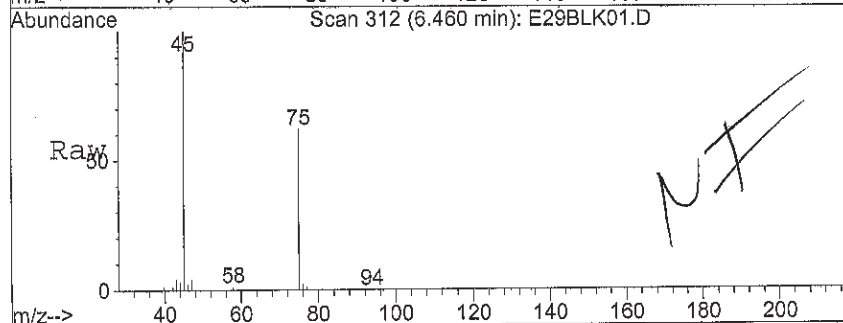
Acq: 29 May 2014 7:39 am

Tgt Ion: 58 Resp: 4117

Ion Ratio Lower Upper

58 100

43 595.5 360.9 541.3#



#12

(IPA) Leak Check Compound

Concen: 2581.83 ug/L

RT: 6.46 min Scan# 312

Delta R.T. -0.08 min

Lab File: E29BLK01.D

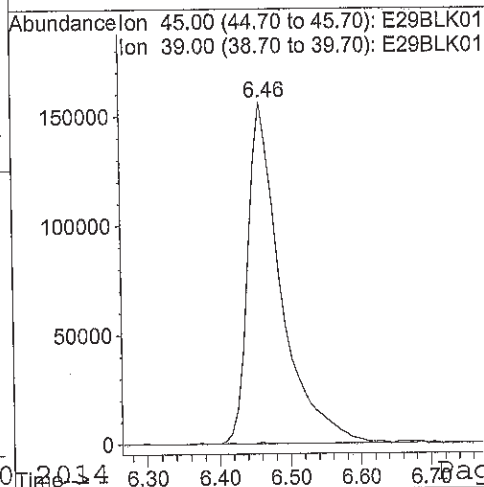
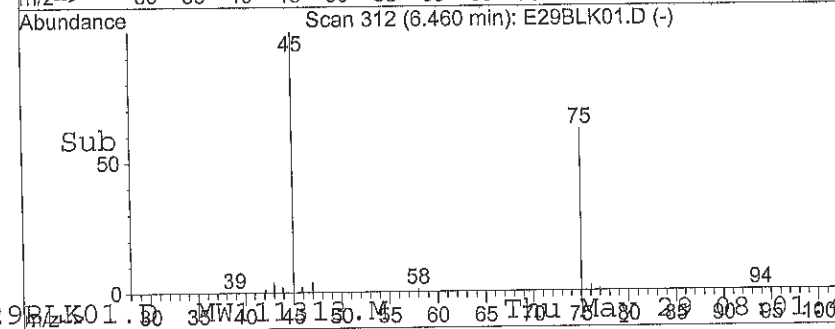
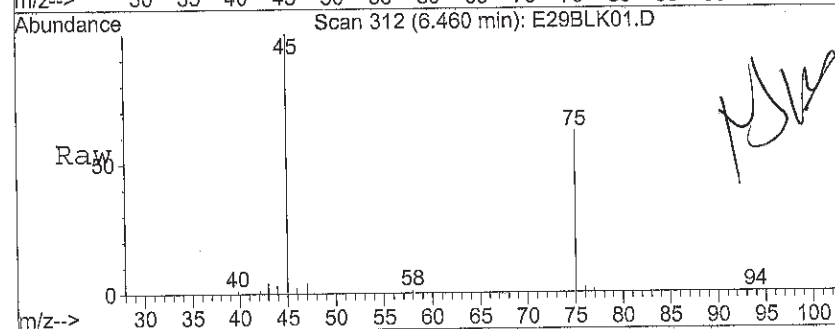
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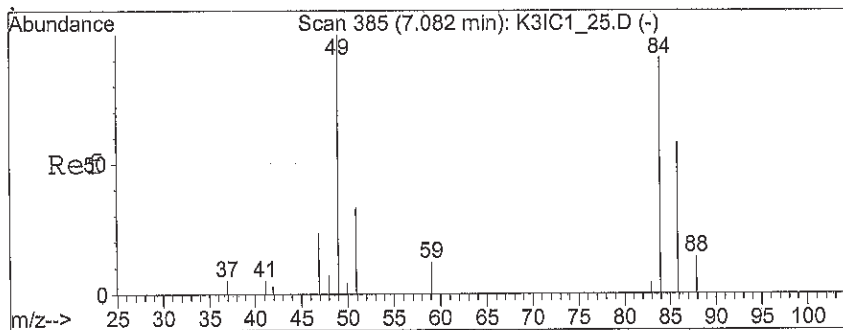
Tgt Ion: 45 Resp: 508091

Ion Ratio Lower Upper

45 100

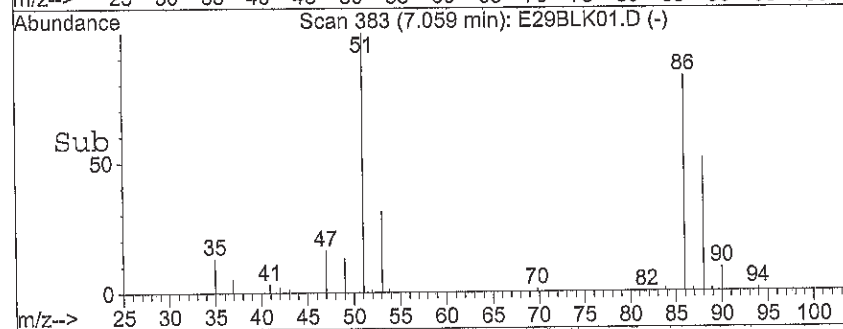
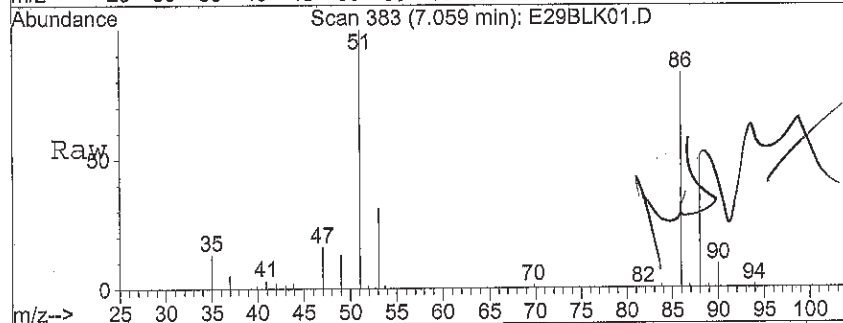
39 0.1 4.9 7.3#



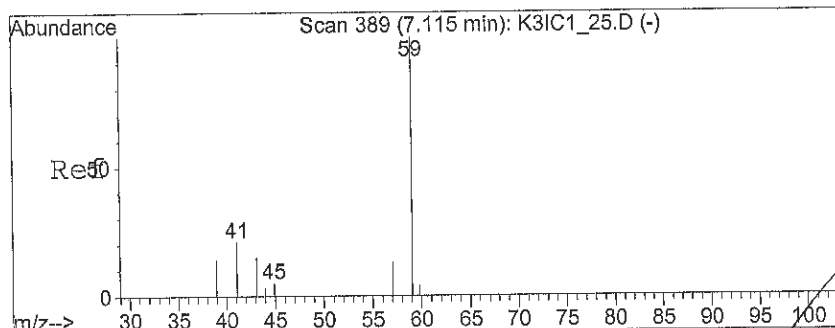
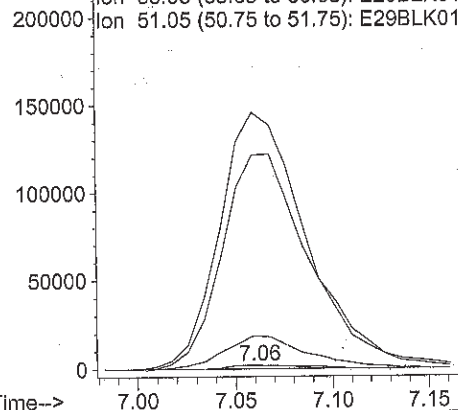


#14
Methylene Chloride
Concen: 1.20 ug/L
RT: 7.06 min Scan# 383
Delta R.T. -0.02 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

Tgt Ion: 84 Resp: 5401
Ion Ratio Lower Upper
84 100
49 1012.4 89.8 134.6#
86 7088.8 51.1 76.7#
51 8523.5 28.5 42.7#

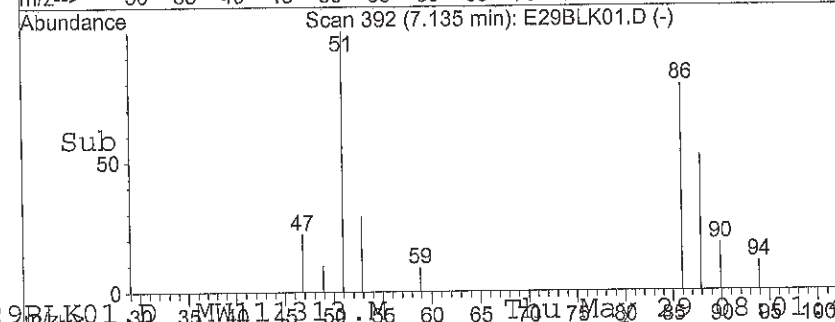
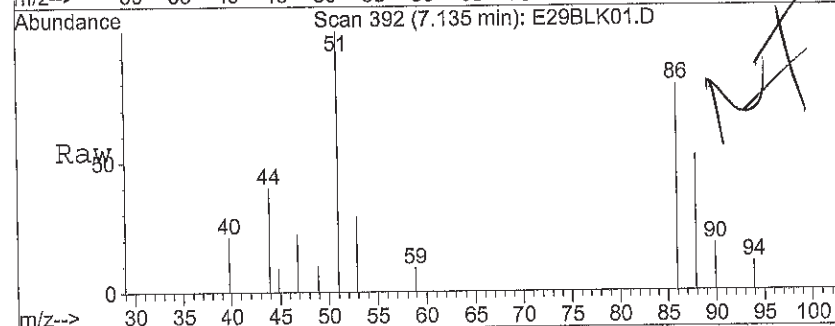


Abundance Ion 83.95 (83.65 to 84.65): E29BLK01
Ion 48.95 (48.65 to 49.65): E29BLK01
Ion 85.95 (85.65 to 86.65): E29BLK01
Ion 51.05 (50.75 to 51.75): E29BLK01

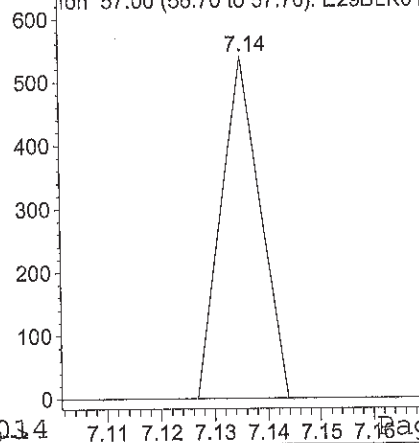


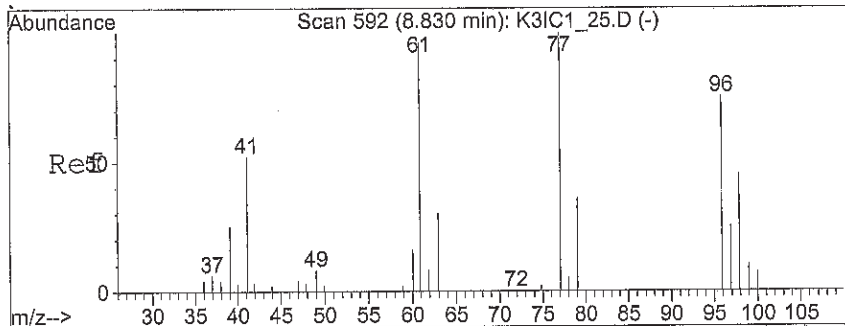
#15
(TBA) tert-Butanol
Concen: 0.98 ug/L
RT: 7.14 min Scan# 392
Delta R.T. 0.02 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

Tgt Ion: 59 Resp: 274
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#



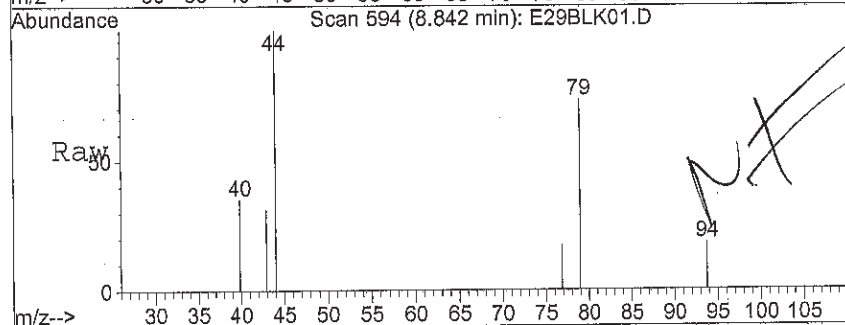
Abundance Ion 59.00 (58.70 to 59.70): E29BLK01
Ion 57.00 (56.70 to 57.70): E29BLK01



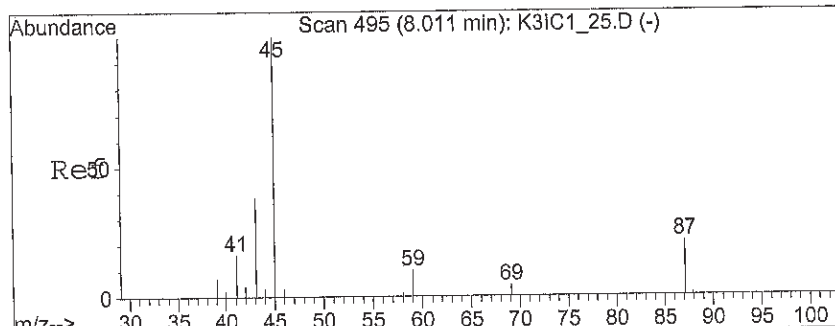
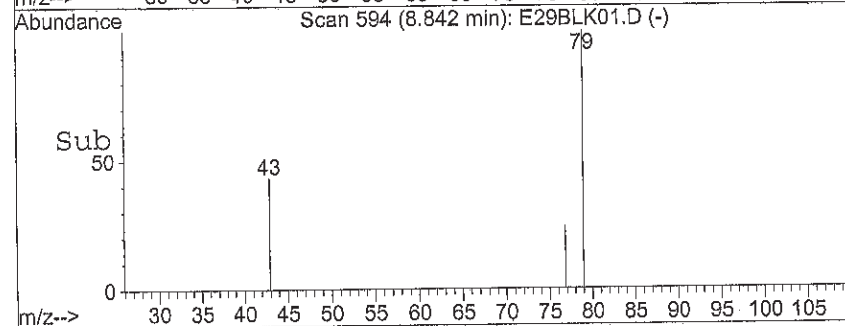
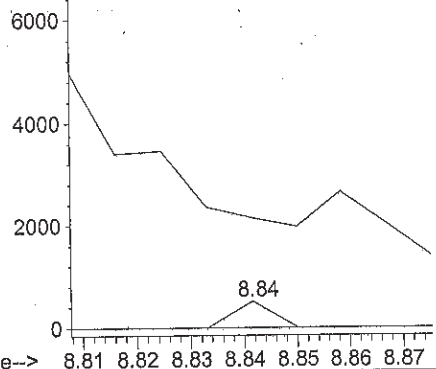


#20
 2,2-Dichloropropane
 Concen: 0.04 ug/L
 RT: 8.84 min Scan# 594
 Delta R.T. 0.01 min
 Lab File: E29BLK01.D
 Acq: 29 May 2014 7:39 am

Tgt Ion:	77	Resp:	259
Ion	Ratio	Lower	Upper
77	100		
79	1676.8	26.6	40.0#
97	0.0	18.9	28.3#
41	0.0	42.6	64.0#

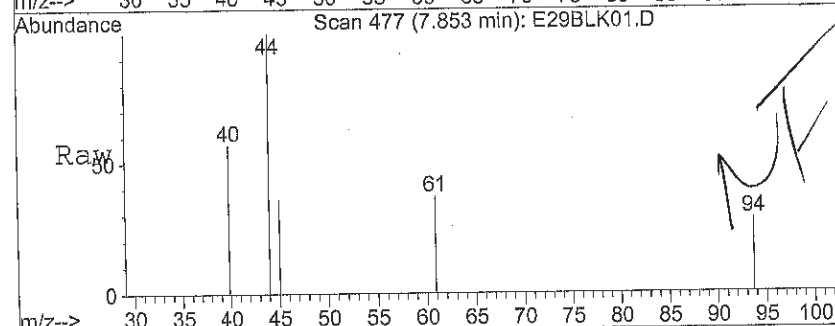


Abundance Ion 77.05 (76.75 to 77.75): E29BLK01
 Ion 79.00 (78.70 to 79.70): E29BLK01
 Ion 96.95 (96.65 to 97.65): E29BLK01
 Ion 41.05 (40.75 to 41.75): E29BLK01

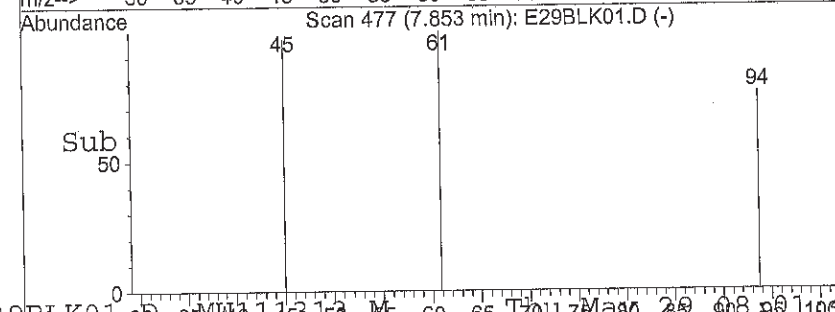
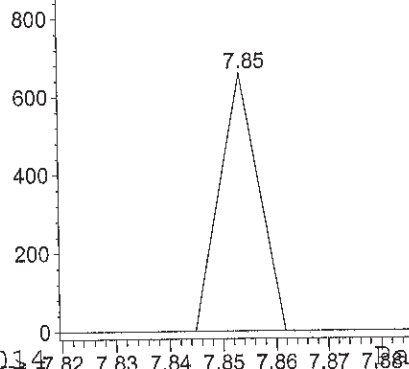


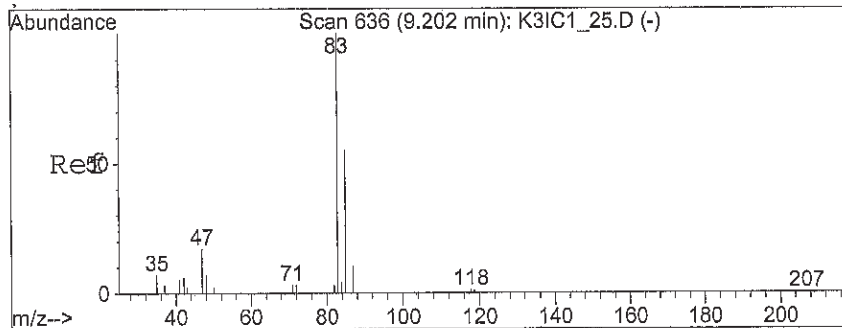
#22
 (DIPE) Diisopropyl Ether
 Concen: 0.03 ug/L
 RT: 7.85 min Scan# 477
 Delta R.T. -0.16 min
 Lab File: E29BLK01.D
 Acq: 29 May 2014 7:39 am

Tgt Ion:	45	Resp:	334
Ion	Ratio	Lower	Upper
45	100		
87	0.0	17.0	25.6#
43	0.0	30.5	45.7#
59	0.0	7.4	11.2#



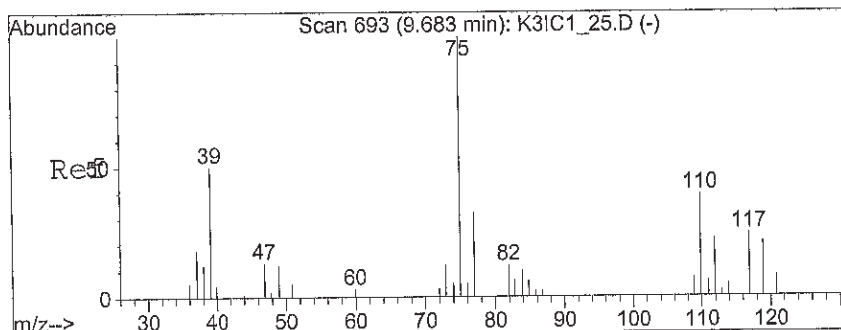
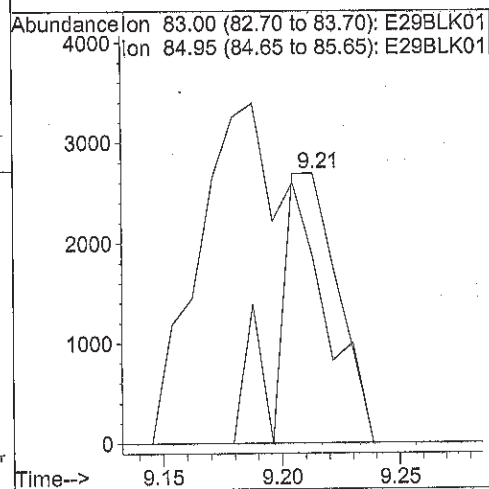
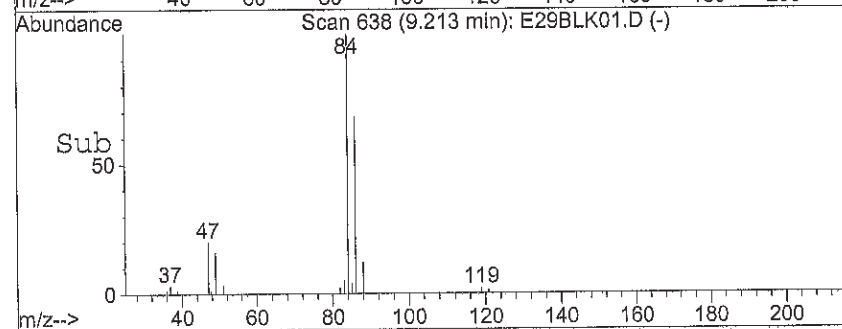
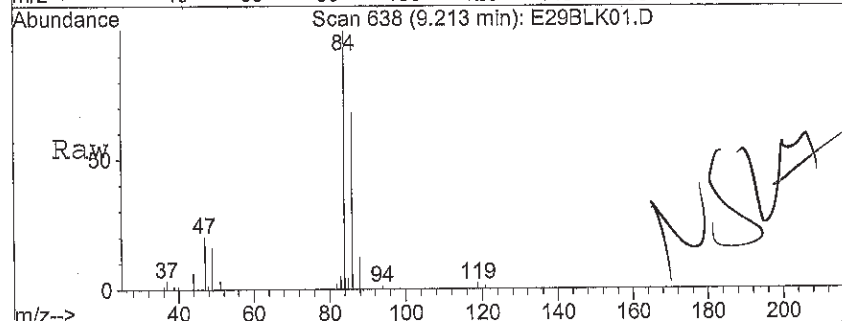
Abundance Ion 45.00 (44.70 to 45.70): E29BLK01
 Ion 87.10 (86.80 to 87.80): E29BLK01
 Ion 43.05 (42.75 to 43.75): E29BLK01
 Ion 59.00 (58.70 to 59.70): E29BLK01





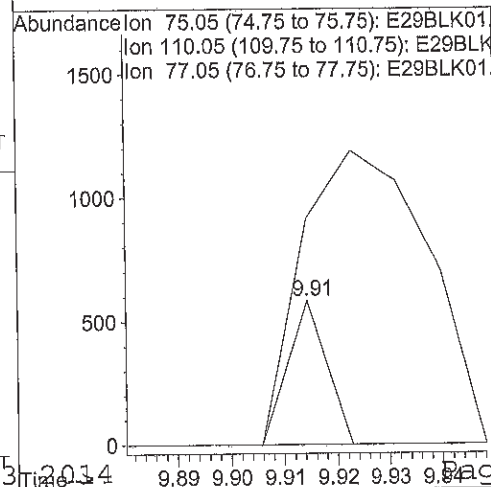
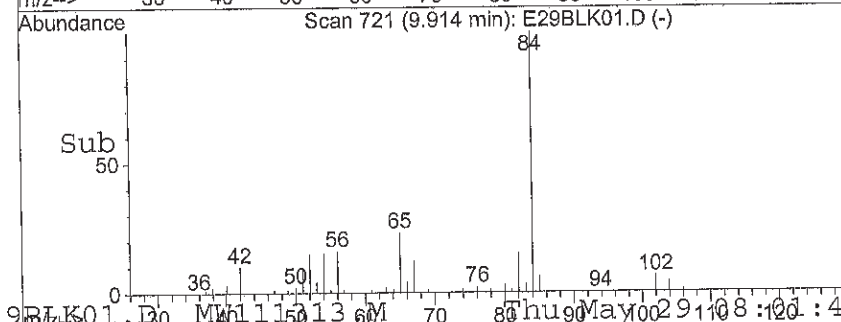
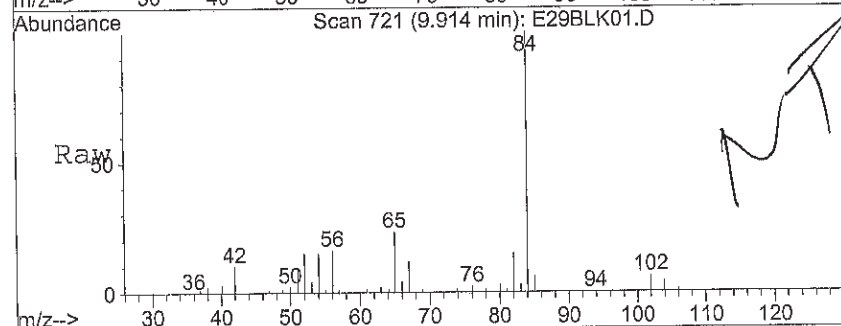
#24
Chloroform
Concen: 0.56 ug/L
RT: 9.21 min Scan# 638
Delta R.T. 0.01 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

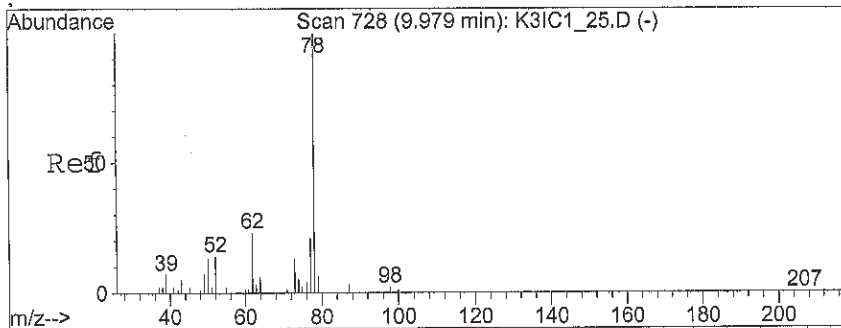
Tgt Ion: 83 Resp: 4797
Ion Ratio Lower Upper
83 100
85 0.0 51.8 77.6#



#29
1,1-Dichloropropene
Concen: 0.05 ug/L
RT: 9.91 min Scan# 721
Delta R.T. 0.23 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

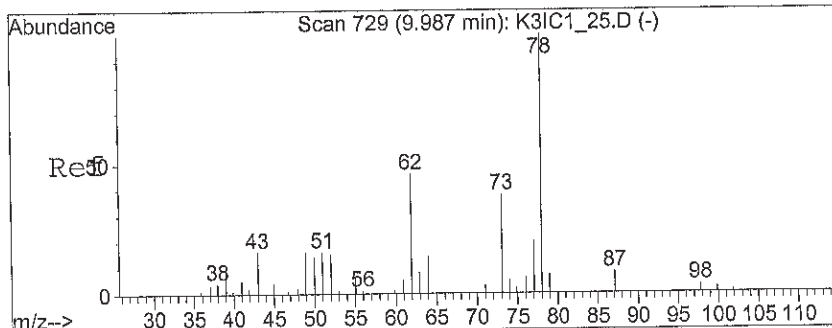
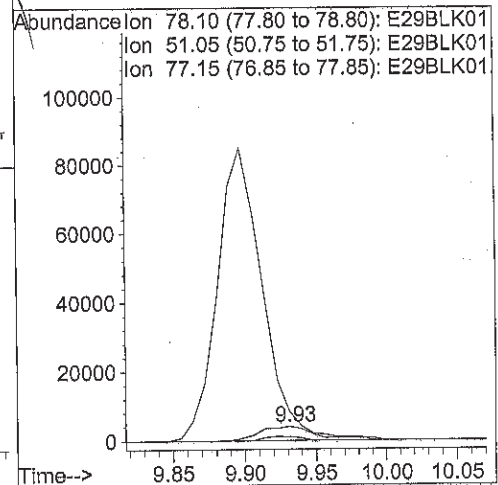
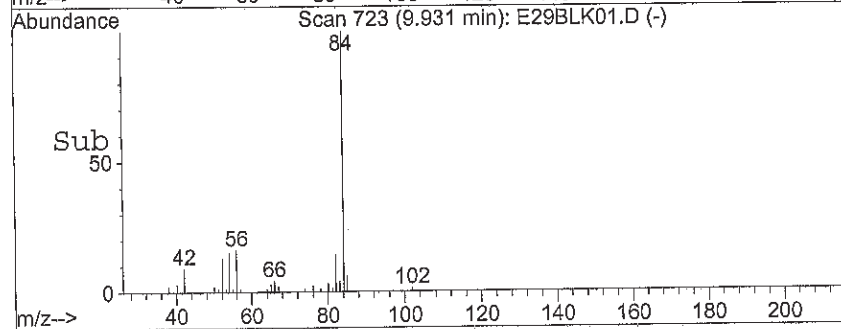
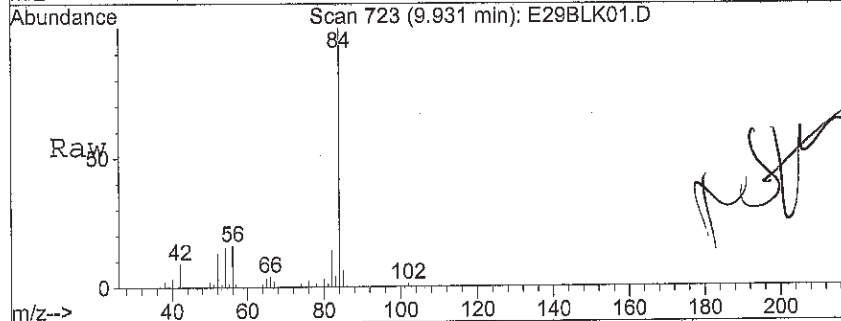
Tgt Ion: 75 Resp: 296
Ion Ratio Lower Upper
75 100
110 0.0 29.0 43.6#
77 664.5 25.0 37.4#





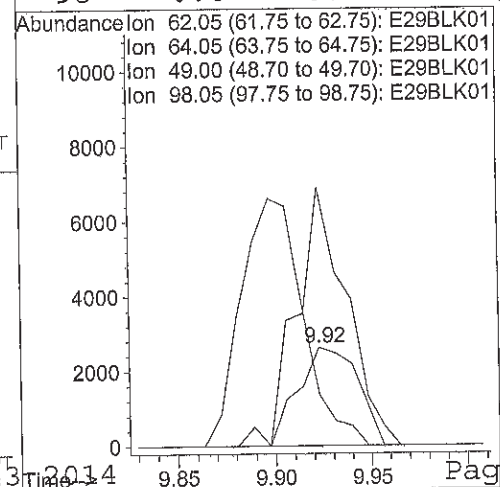
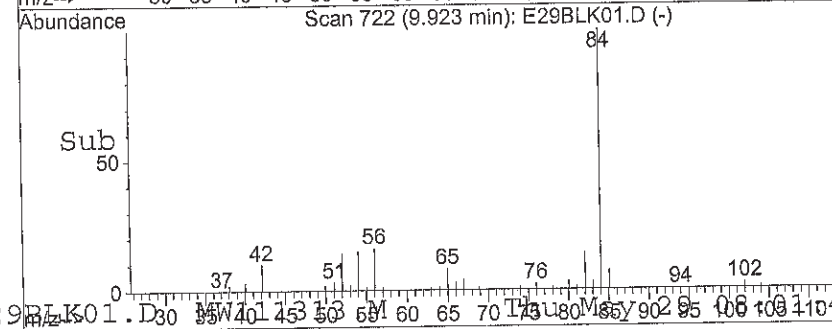
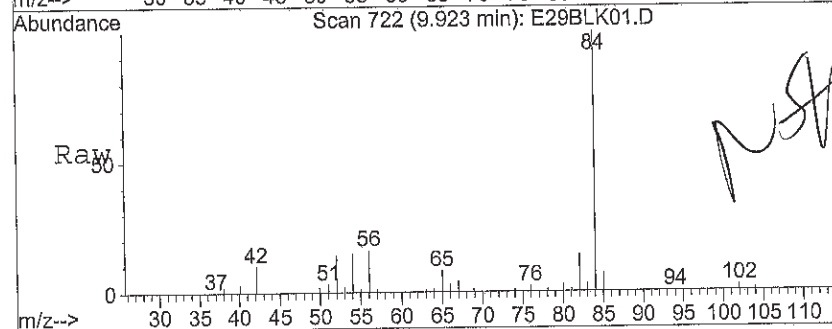
#31
Benzene
Concen: 0.72 ug/L
RT: 9.93 min Scan# 723
Delta R.T. -0.05 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

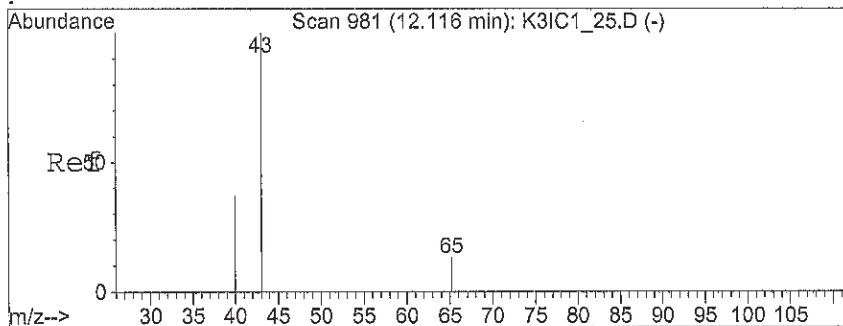
Tgt Ion: 78 Resp: 11166
Ion Ratio Lower Upper
78 100
51 0.0 14.2 21.2#
77 17.6 16.6 24.8



#32
1,2-Dichloroethane
Concen: 1.09 ug/L
RT: 9.92 min Scan# 722
Delta R.T. -0.06 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

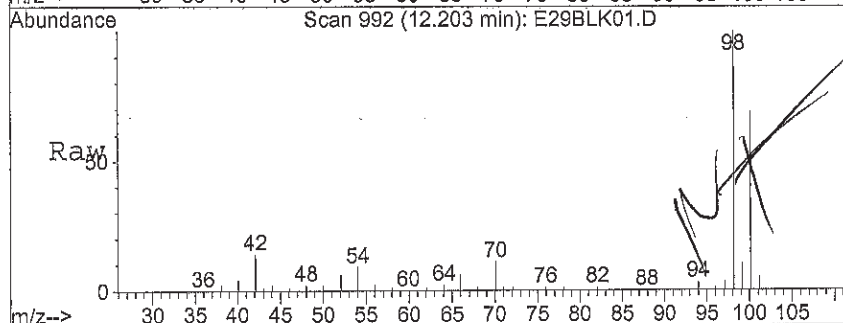
Tgt Ion: 62 Resp: 5924
Ion Ratio Lower Upper
62 100
64 206.9 28.0 42.0#
49 0.0 28.5 42.7#
98 0.0 6.2 9.4#



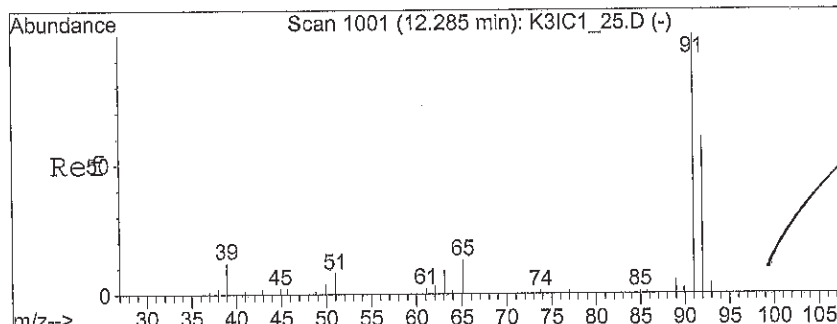
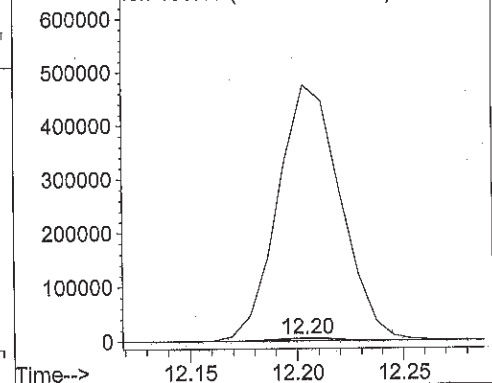
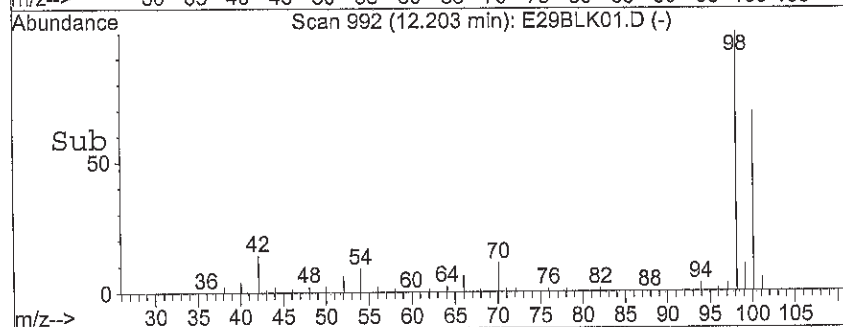


#40
 (MIBK) 4-Methyl-2-Pentanone
 Concen: 2.80 ug/L
 RT: 12.20 min Scan# 992
 Delta R.T. 0.09 min
 Lab File: E29BLK01.D
 Acq: 29 May 2014 7:39 am

Tgt Ion: 43 Resp: 7209
 Ion Ratio Lower Upper
 43 100
 58 147.8 0.0 0.0#
 85 0.0 0.0 0.0
 100 13477.8 0.0 0.0#

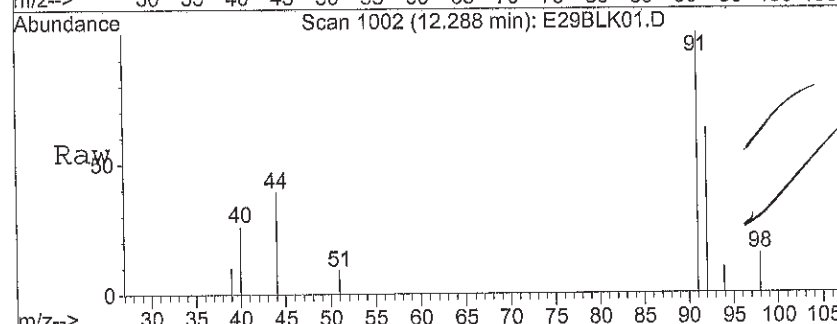


Abundance Ion 43.00 (42.70 to 43.70): E29BLK01
 Ion 58.10 (57.80 to 58.80): E29BLK01
 Ion 85.05 (84.75 to 85.75): E29BLK01
 Ion 100.15 (99.85 to 100.85): E29BLK01

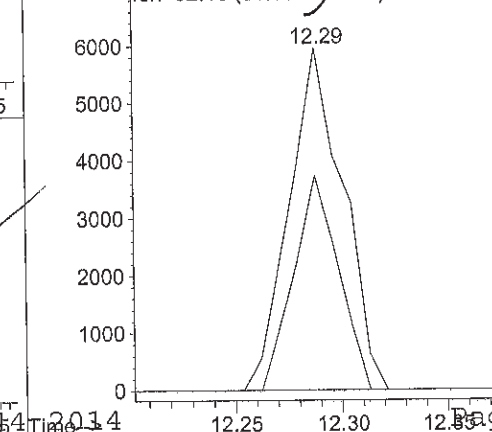
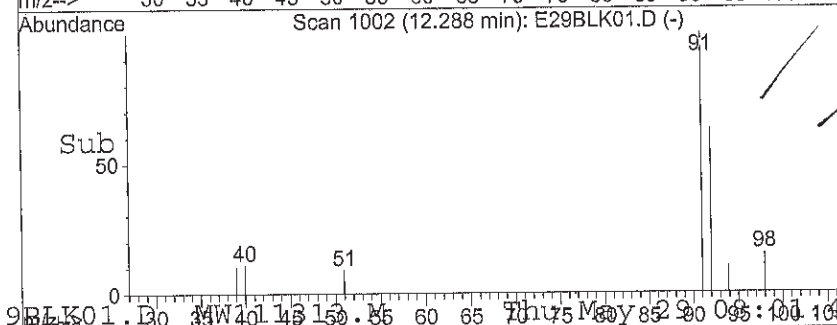


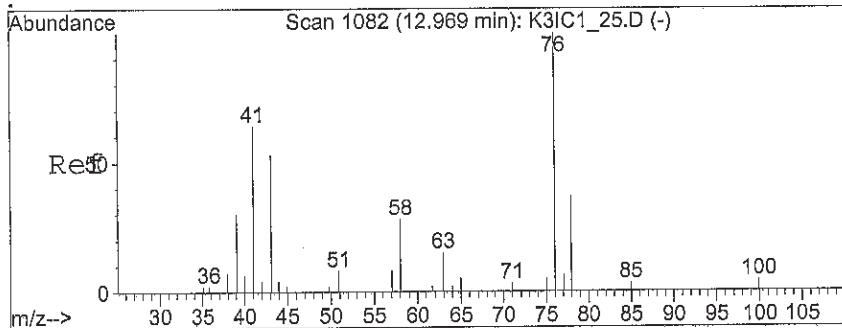
#41
 Toluene
 Concen: 0.59 ug/L
 RT: 12.29 min Scan# 1002
 Delta R.T. 0.00 min
 Lab File: E29BLK01.D
 Acq: 29 May 2014 7:39 am

Tgt Ion: 91 Resp: 10430
 Ion Ratio Lower Upper
 91 100
 92 52.1 47.4 71.0



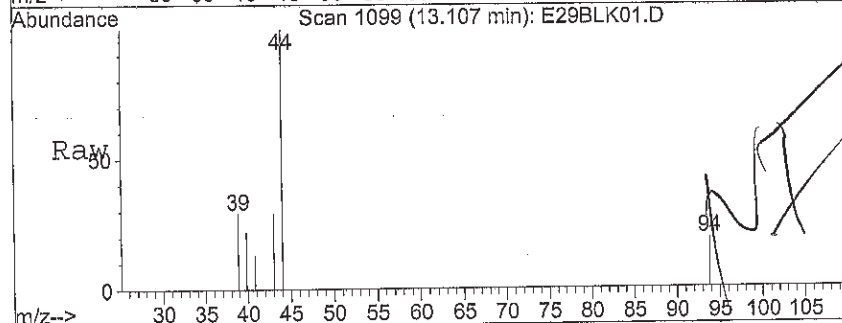
Abundance Ion 91.10 (90.80 to 91.80): E29BLK01
 Ion 92.10 (91.80 to 92.80): E29BLK01





#46
2-Hexanone
Concen: 0.31 ug/L
RT: 13.11 min Scan# 1099
Delta R.T. 0.14 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

Tgt Ion:	43	Resp:	860
Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.9	61.3#
100	0.0	5.5	8.3#
85	0.0	4.3	6.5#



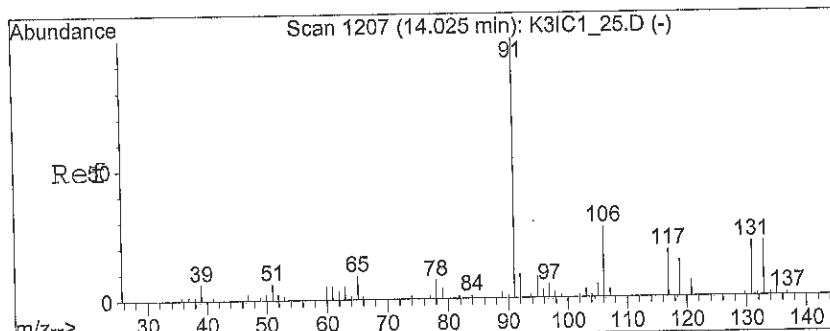
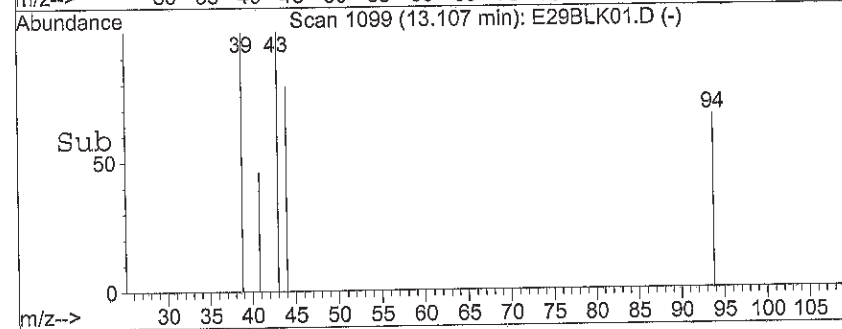
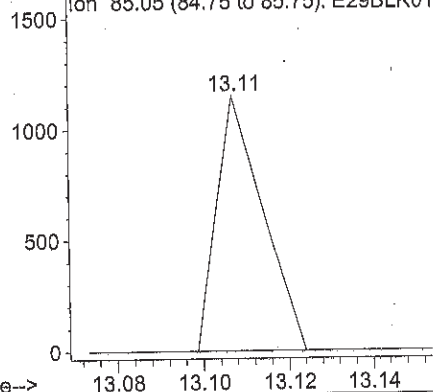
Abundance

Ion 43.00 (42.70 to 43.70): E29BLK01

Ion 58.10 (57.80 to 58.80): E29BLK01

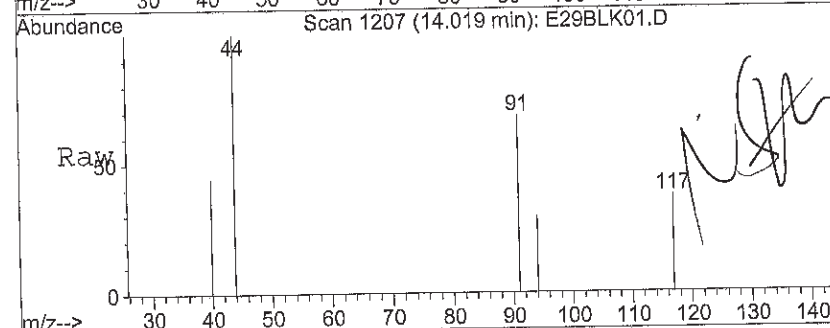
Ion 100.15 (99.85 to 100.85): E29BLK01

Ion 85.05 (84.75 to 85.75): E29BLK01



#51
Ethylbenzene
Concen: 0.07 ug/L
RT: 14.02 min Scan# 1207
Delta R.T. -0.01 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

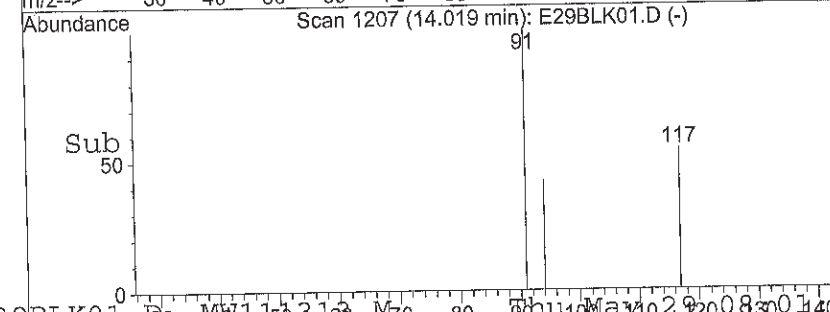
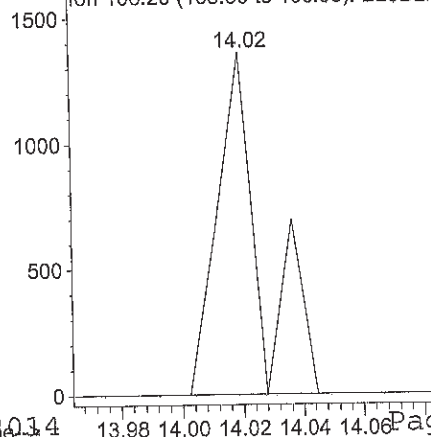
Tgt Ion:	91	Resp:	1370
Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.5	35.3#

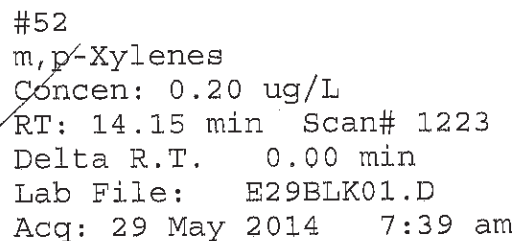


Abundance

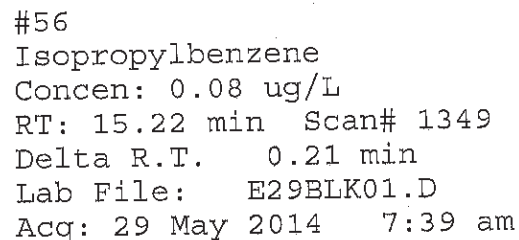
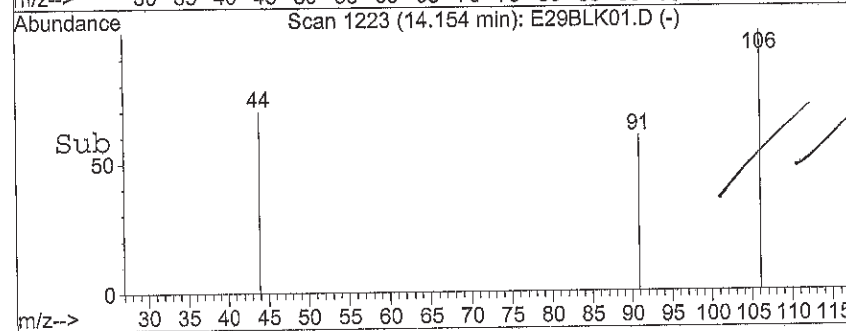
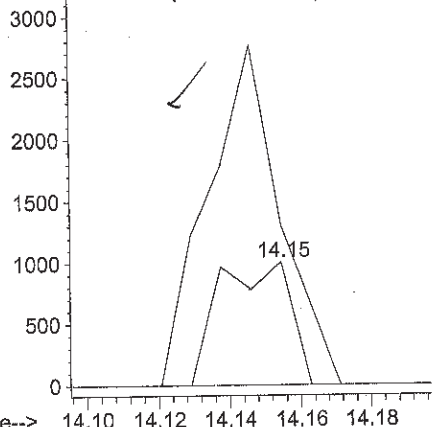
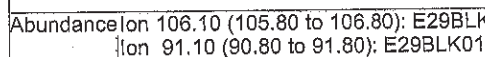
Ion 91.10 (90.80 to 91.80): E29BLK01

Ion 106.20 (105.90 to 106.90): E29BLK01

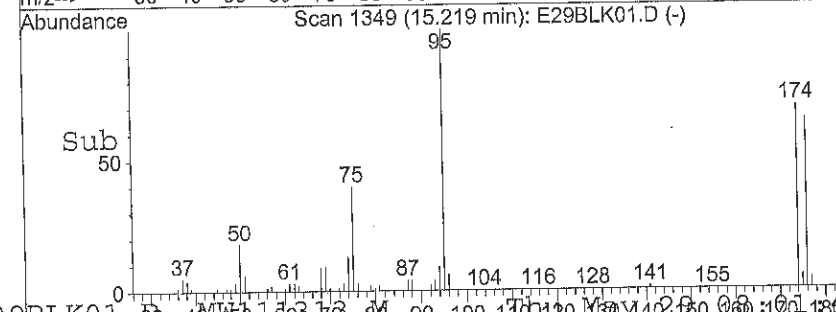
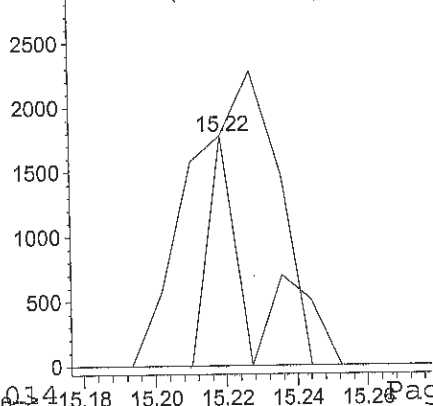
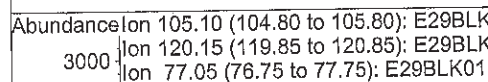


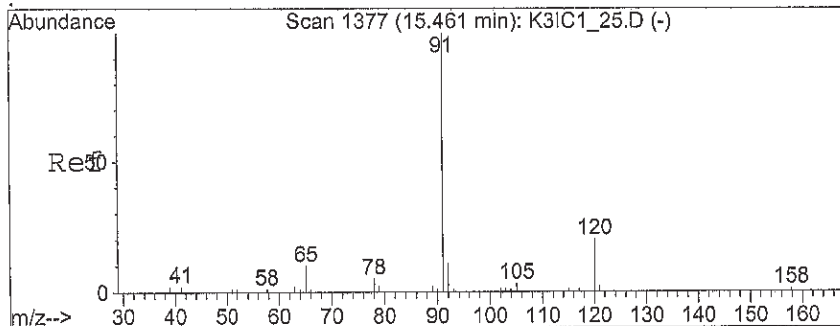


Tgt	Ion:106	Resp:	1393
Ion	Ratio	Lower	Upper
106	100		
91	281.3	177.1	265.7#



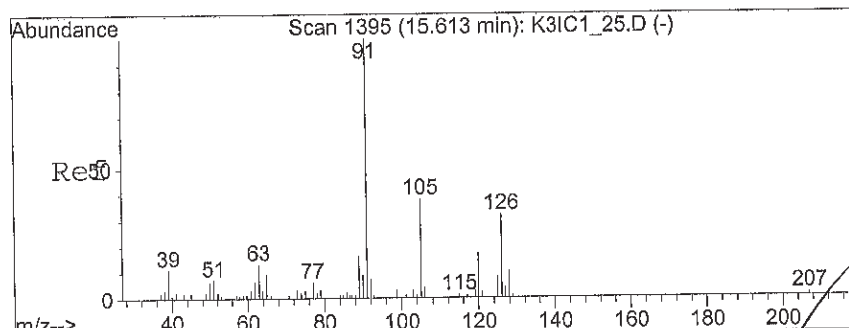
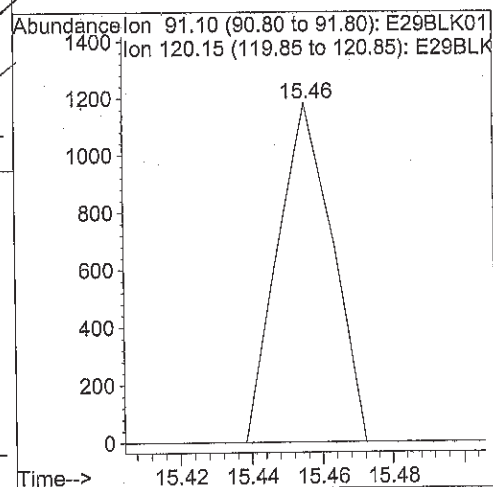
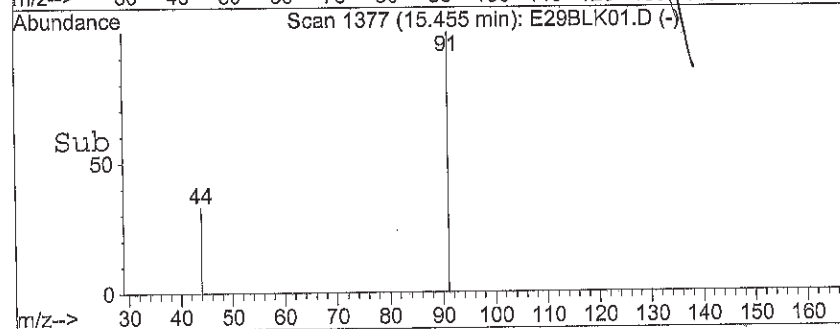
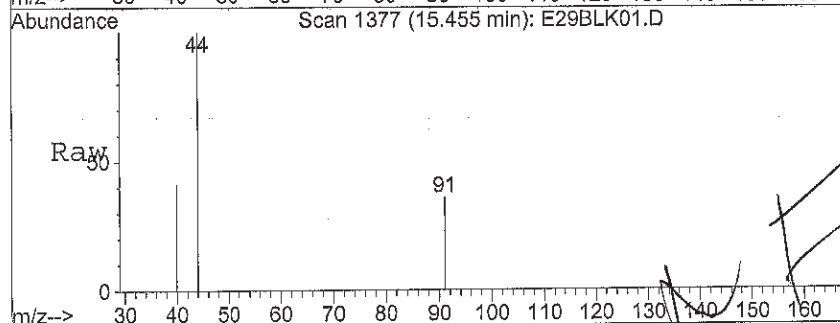
Tgt	Ion:105	Resp:	1511
Ion	Ratio	Lower	Upper
105	100		
120	0.0	19.3	28.9#
77	257.6	13.1	19.7#





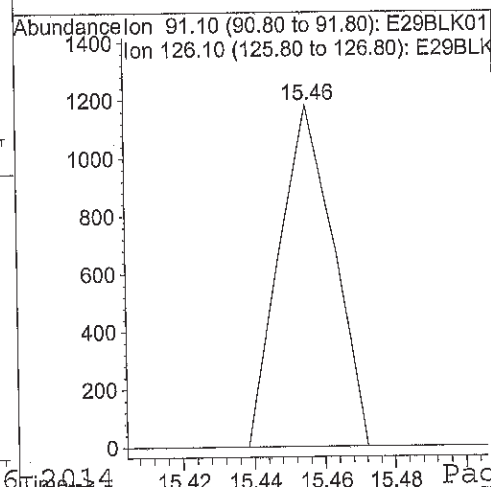
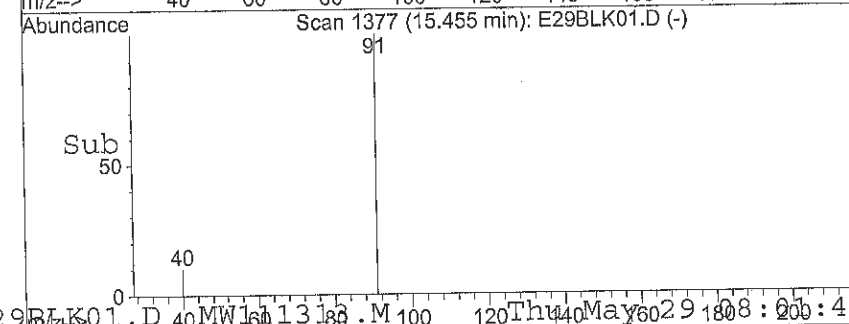
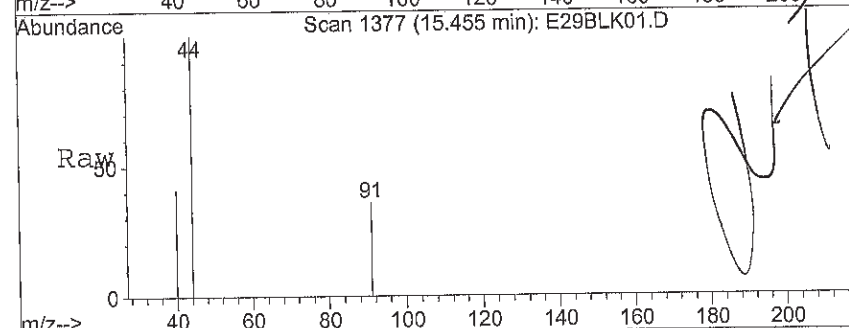
#62
n-Propylbenzene
Concen: 0.04 ug/L
RT: 15.46 min Scan# 1377
Delta R.T. -0.01 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

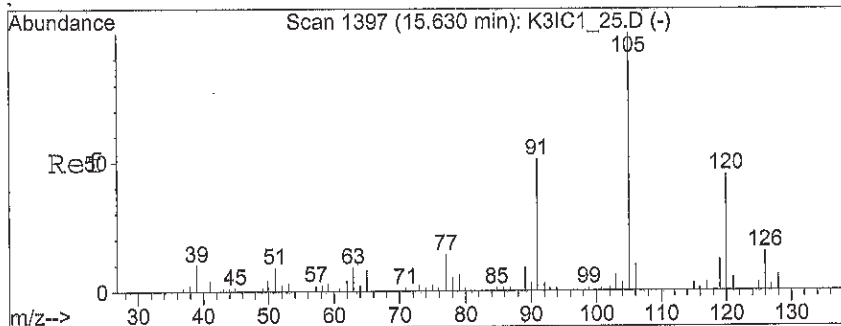
Tgt Ion: 91 Resp: 1255
Ion Ratio Lower Upper
91 100
120 0.0 16.1 24.1#



#63
2-Chlorotoluene
Concen: 0.07 ug/L
RT: 15.46 min Scan# 1377
Delta R.T. -0.16 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

Tgt Ion: 91 Resp: 1255
Ion Ratio Lower Upper
91 100
126 0.0 24.0 36.0#





#64

1,3,5-Trimethylbenzene

Concen: 0.08 ug/L

RT: 15.63 min Scan# 1398

Delta R.T. 0.00 min

Lab File: E29BLK01.D

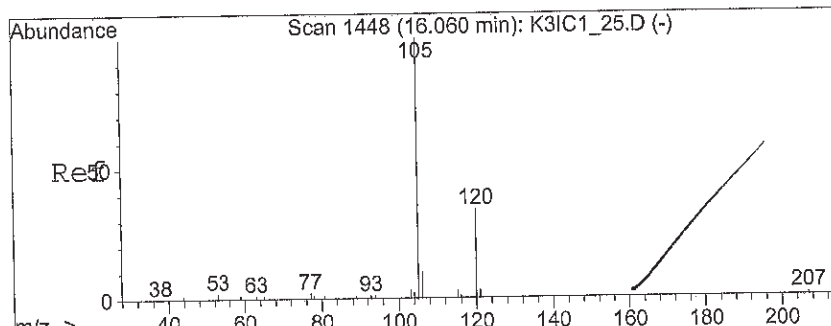
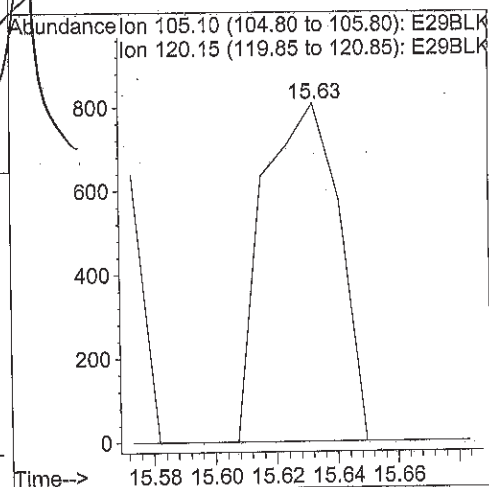
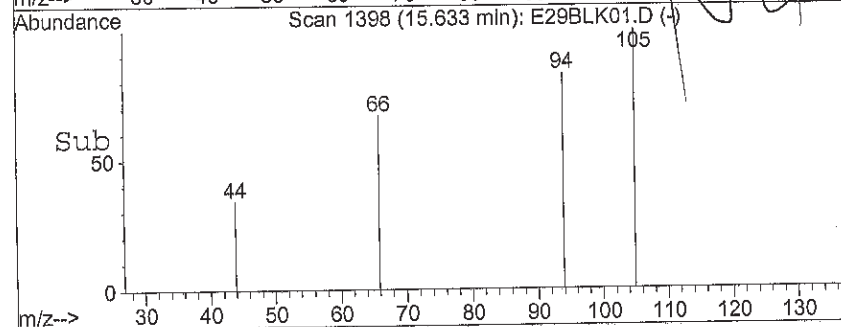
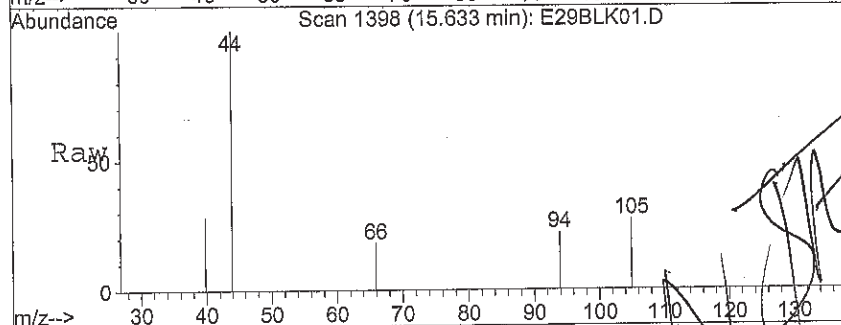
Acq: 29 May 2014 7:39 am

Tgt Ion:105 Resp: 1382

Ion Ratio Lower Upper

105 100

120 0.0 36.4 54.6#



#67

1,2,4-Trimethylbenzene

Concen: 0.28 ug/L

RT: 16.06 min Scan# 1449

Delta R.T. 0.00 min

Lab File: E29BLK01.D

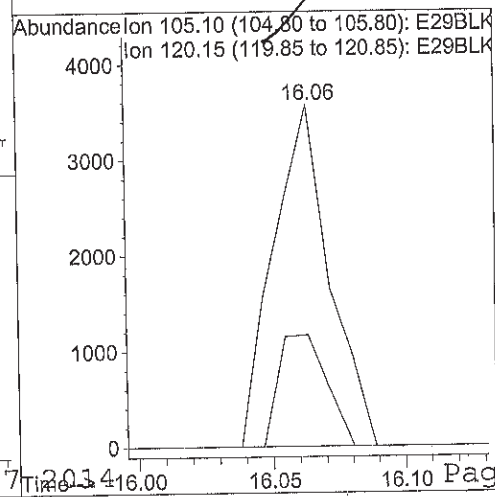
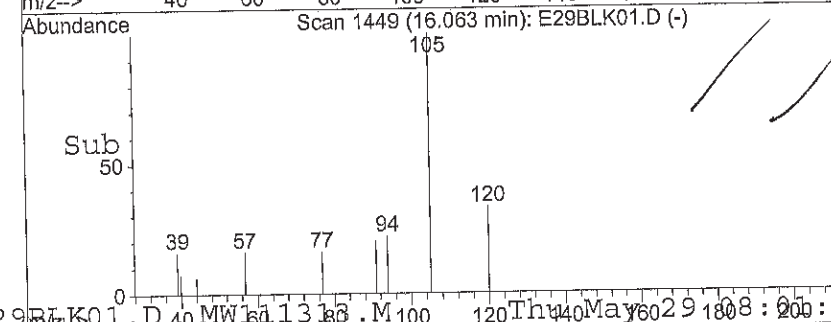
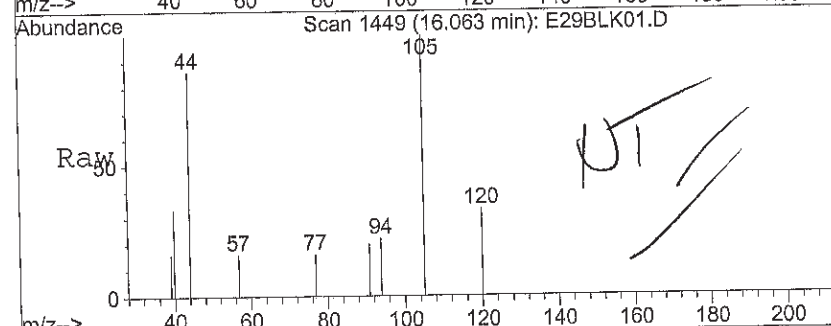
Acq: 29 May 2014 7:39 am

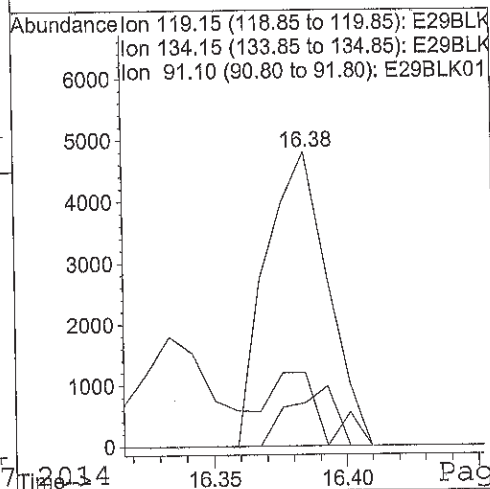
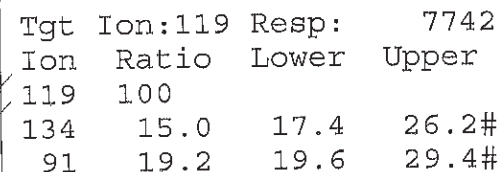
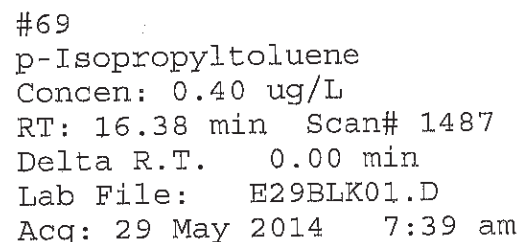
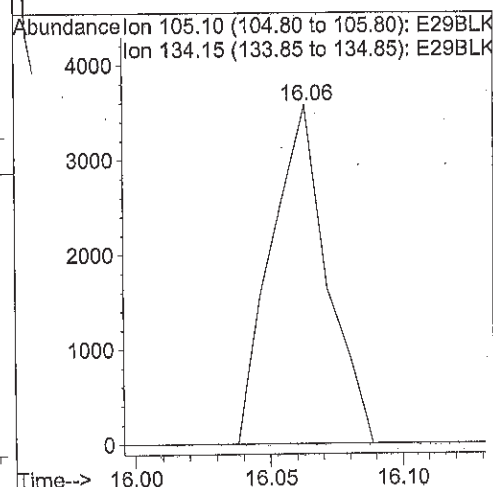
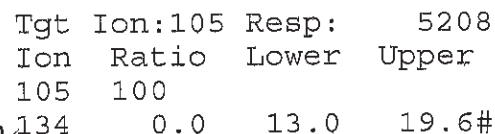
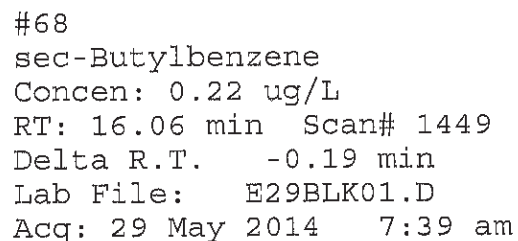
Tgt Ion:105 Resp: 5208

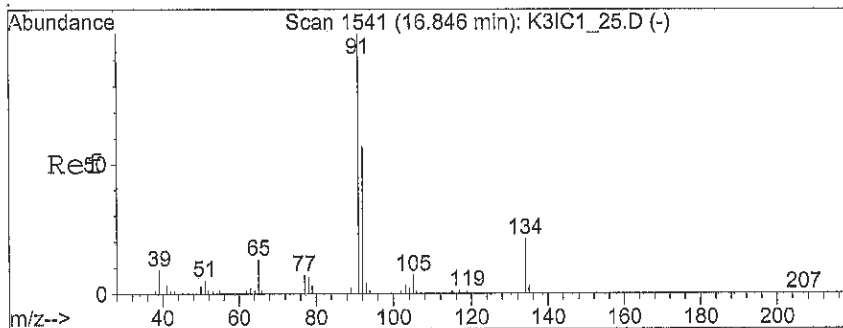
Ion Ratio Lower Upper

105 100

120 28.0 33.8 50.8#

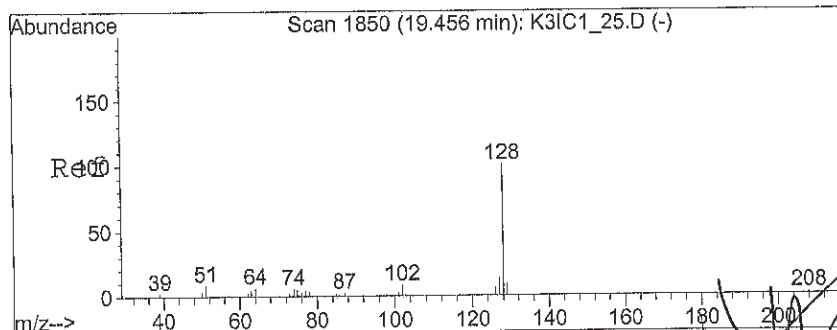
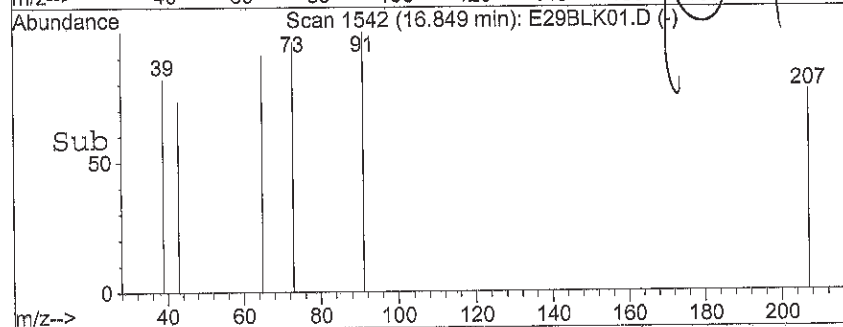
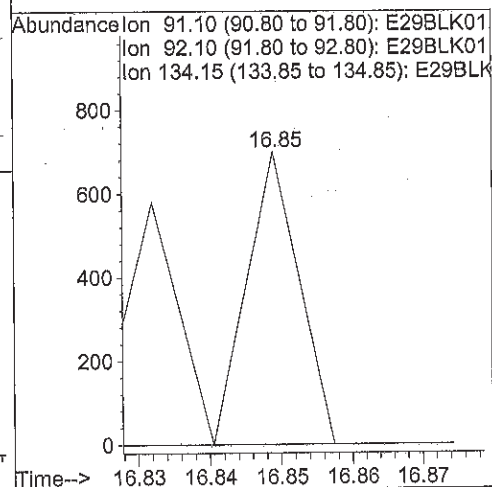
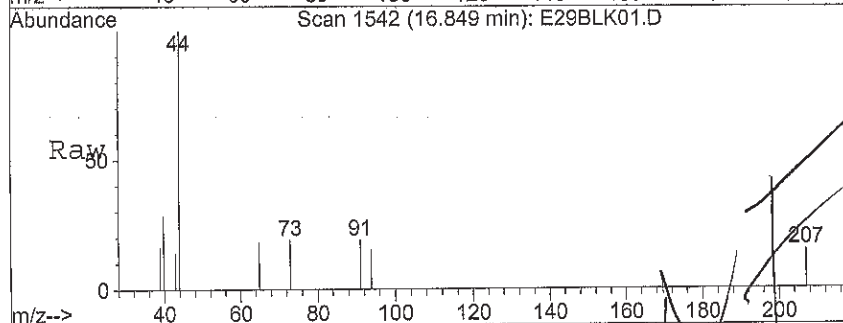






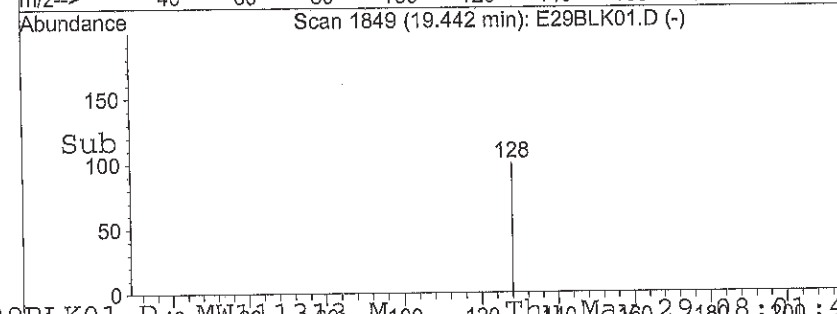
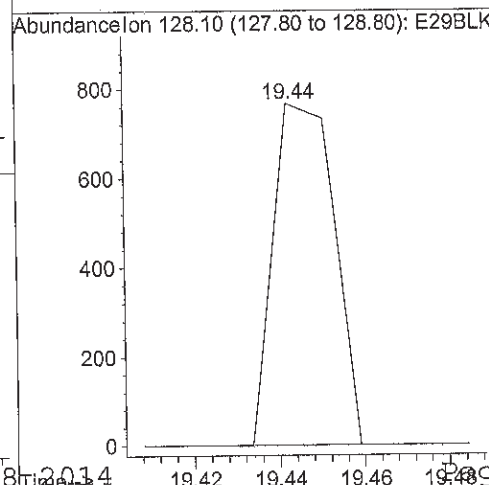
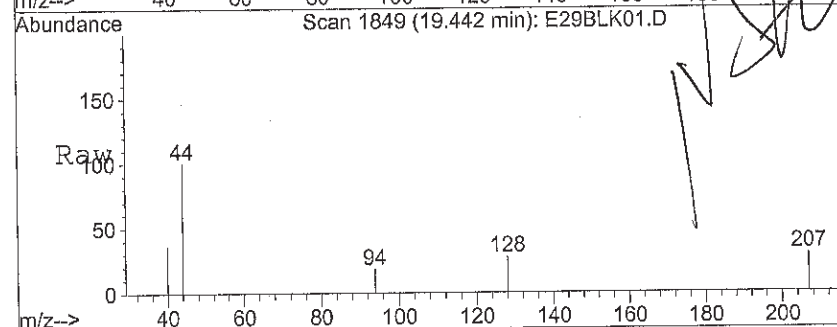
#72
n-Butylbenzene
Concen: 0.02 ug/L
RT: 16.85 min Scan# 1542
Delta R.T. 0.00 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

Tgt Ion: 91 Resp: 354
Ion Ratio Lower Upper
91 100
92 0.0 47.0 70.4#
134 0.0 18.1 27.1#



#77
Naphthalene
Concen: 0.05 ug/L
RT: 19.44 min Scan# 1849
Delta R.T. -0.01 min
Lab File: E29BLK01.D
Acq: 29 May 2014 7:39 am

Tgt Ion: 128 Resp: 761



Data File : C:\HPCHEM\1\DATA\052914L3\E29BLK01.D

Vial: 11

Acq On : 29 May 2014 7:39 am

Operator: DN

Sample : 34E2901-BLK1

Inst : GC/MS Ins

Misc : 100cc AMBIENT AIR/H2O

Multiplr: 10.00

MS Integration Params: rteint.p

Quant Time: May 29 8:02 19114

Quant Results File: SS072713.RES

Quant Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)

Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN

Last Update : Mon Nov 18 10:31:39 2013

Response via : Initial Calibration

DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1637712	12.50	ug/L	-0.02
7) Chlorobenzene-d5 (IS)	13.92	117	1287295	12.50	ug/L	-0.01
10) 1,4-Dichlorobenzene-d4 (IS)	16.51	152	712164	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	461987	10.85	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	86.80%
3) Chloroform-d (SU6)	9.19	84	709597	11.61	ug/L	0.00
Spiked Amount	12.500	Range	70 - 140	Recovery	=	92.88%
4) Methylene Chloride-d2 (SU5)	7.07	86	382866	10.72	ug/L	-0.01
Spiked Amount	12.500	Range	70 - 140	Recovery	=	85.76%
5) 1,2-Dichloroethane-d4 (SU2)	9.90	65	440900	15.15	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	121.20%
6) Benzene-d6 (SU7)	9.92	84	1336050	10.40	ug/L	-0.03
Spiked Amount	12.500	Range	70 - 140	Recovery	=	83.20%
8) Toluene-d8 (SU3)	12.20	98	1438243	11.78	ug/L	-0.02
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.24%
9) 4-Bromofluorobenzene (SU4)	15.23	95	718141	14.24	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	113.92%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

E29BLK01.D SS072713.M

Thu May 29 08:02:15 2014

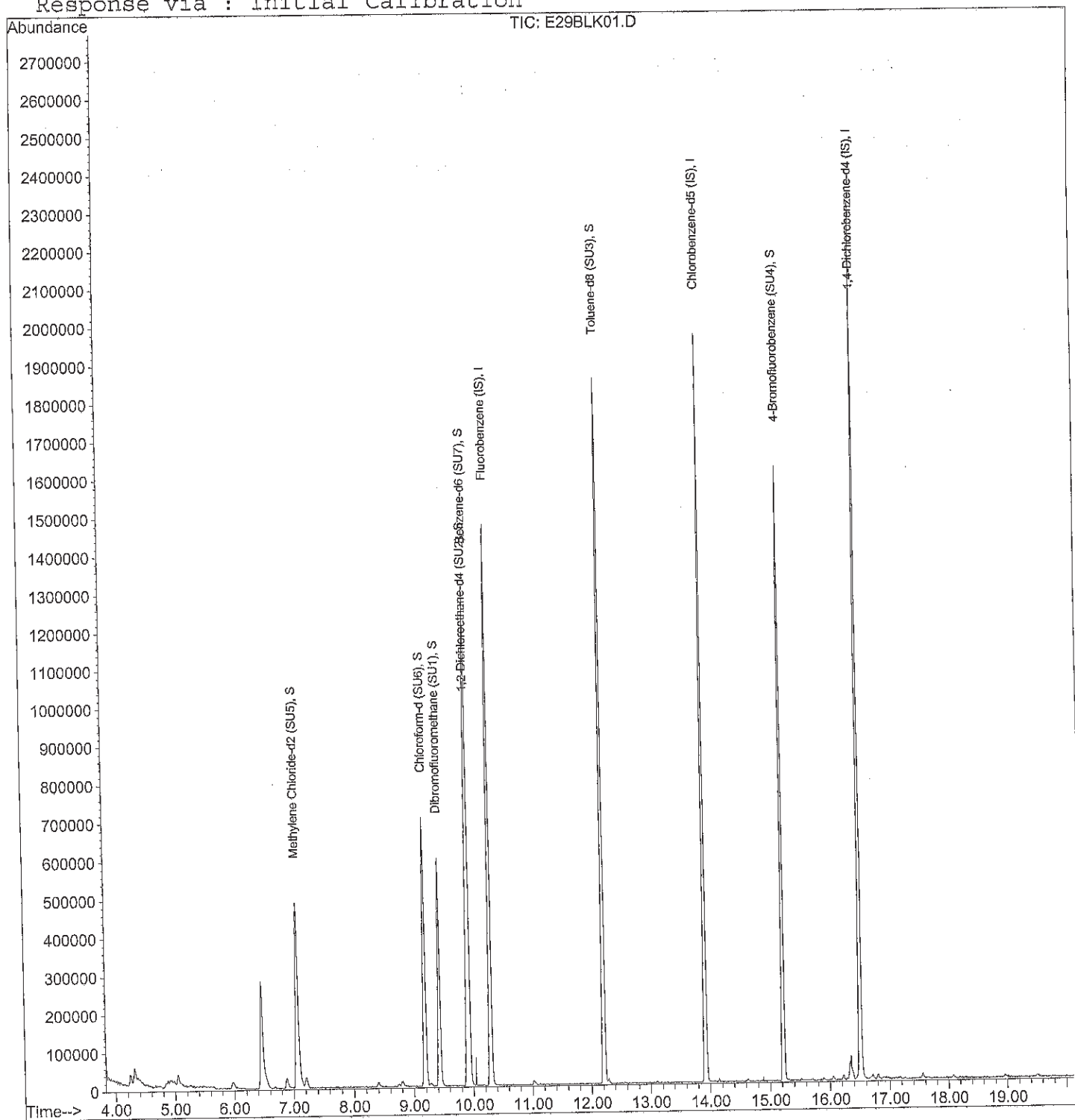
Quantitation Report

Data File : C:\HPCHEM\1\DATA\052914L3\E29BLK01.D
 Acq On : 29 May 2014 7:39 am
 Sample : 34E2901-BLK1
 Misc : 100cc AMBIENT AIR/H2O
 MS Integration Params: rteint.p
 Quant Time: May 29 8:02 19114

Vial: 11
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: SS072713.RES

Method : C:\HPCHEM\1\METHODS\SS072713.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL SSSF 07/27/13 DN
 Last Update : Mon Nov 18 10:31:39 2013
 Response via : Initial Calibration



**RAW DATA FOR ANALYZED SAMPLES INCLUDING
CHROMATOGRAMS, QUANTITATION REPORTS AND
SPECTRA**

Data File : C:\HPCHEM\1\DATA\052914L3\E2900001.D
 Acq On : 29 May 2014 8:11 am
 Sample : 3E42901-01
 Misc : 100cc Equipment Blank
 MS Integration Params: rteint.p
 Quant Time: May 29 8:33 19114

Vial: 11
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration
 DataAcq Meth : MW111313

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	10.29	96	1446066	12.50	ug/L	0.00
38) Chlorobenzene-d5 (IS)	13.92	117	1151739	12.50	ug/L	0.00
59) 1,4-Dichlorobenzene-d4 (IS)	16.52	152	631317	12.50	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane (SU1)	9.43	113	425314	11.79	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	94.32%
28) 1,2-Dichloroethane-d4 (SU2)	9.90	65	415497	12.12	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.96%
39) Toluene-d8 (SU3)	12.21	98	1298038	12.08	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	96.64%
58) 4-Bromofluorobenzene (SU4)	15.22	95	625891	13.29	ug/L	0.00
Spiked Amount	12.500	Range	75 - 125	Recovery	=	106.32%

Target Compounds

					Qvalue
4) Chloromethane	4.39	50	5990	1.25 ug/L #	41
6) Bromomethane	5.06	96	631	-1.38 ug/L #	1
7) Chloroethane	5.25	64	2249	2.56 ug/L #	32
11) Acetone	6.46	58	2410	179.45 ug/L #	1
12) (IPA) Leak Check Compound	6.46	45	285364	1642.23 ug/L #	83
14) Methylene Chloride	7.06	84	5760	1.45 ug/L #	1
15) (TBA) tert-Butanol	7.16	59	1201	4.87 ug/L #	77
20) 2,2-Dichloropropane	8.83	77	274	0.05 ug/L #	1
24) Chloroform	9.21	83	2796	0.37 ug/L	94
29) 1,1-Dichloropropene	9.92	75	364	0.07 ug/L #	1
31) Benzene	9.92	78	9506	0.70 ug/L #	1
32) 1,2-Dichloroethane	9.92	62	5008	1.04 ug/L #	1
40) (MIBK) 4-Methyl-2-Pentanone	12.20	43	7212	3.14 ug/L #	100
41) Toluene	12.29	91	1289	0.08 ug/L #	51
46) 2-Hexanone	13.06	43	301	0.12 ug/L #	37
51) Ethylbenzene	14.02	91	797	0.04 ug/L #	45
54) Styrene	14.64	104	1255	-0.74 ug/L #	40
56) Isopropylbenzene	15.23	105	1037	0.06 ug/L #	1
62) n-Propylbenzene	15.23	91	1856	0.07 ug/L #	56
68) sec-Butylbenzene	16.35	105	267	0.01 ug/L #	62
69) p-Isopropyltoluene	16.50	119	262	0.02 ug/L #	1
72) n-Butylbenzene	16.79	91	316	0.02 ug/L #	30

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052914L3\E2900001.D Vial: 11
Acq On : 29 May 2014 8:11 am Operator: DN
Sample : 3E42901-01 Inst : GC/MS Ins
Misc : 100cc Equipment Blank Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: May 29 8:33 19114 Quant Results File: MW111313.RES

Quant Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
Title : 8260B GC/MS #3 ICAL 11/13/13 DN
Last Update : Wed Nov 13 19:38:32 2013
Response via : Initial Calibration
DataAcq Meth : MW111313

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
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Quantitation Report

Data File : C:\HPCHEM\1\DATA\052914L3\E2900001.D
 Acq On : 29 May 2014 8:11 am
 Sample : 3E42901-01
 Misc : 100cc Equipment Blank
 MS Integration Params: rteint.p
 Quant Time: May 29 8:33 19114

Vial: 11
 Operator: DN
 Inst : GC/MS Ins
 Multiplr: 10.00

Quant Results File: MW111313.RES

Method : C:\HPCHEM\1\METHODS\MW111313.M (RTE Integrator)
 Title : 8260B GC/MS #3 ICAL 11/13/13 DN
 Last Update : Wed Nov 13 19:38:32 2013
 Response via : Initial Calibration

