

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070218\
 Data File : VL032198.D
 Acq On : 3 Jul 2018 1:44
 Operator : SY/AP
 Sample : J3735-02DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3DL

Quant Time: Jul 03 05:07:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1435767	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3401828	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3169102	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	2411898	9.96	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

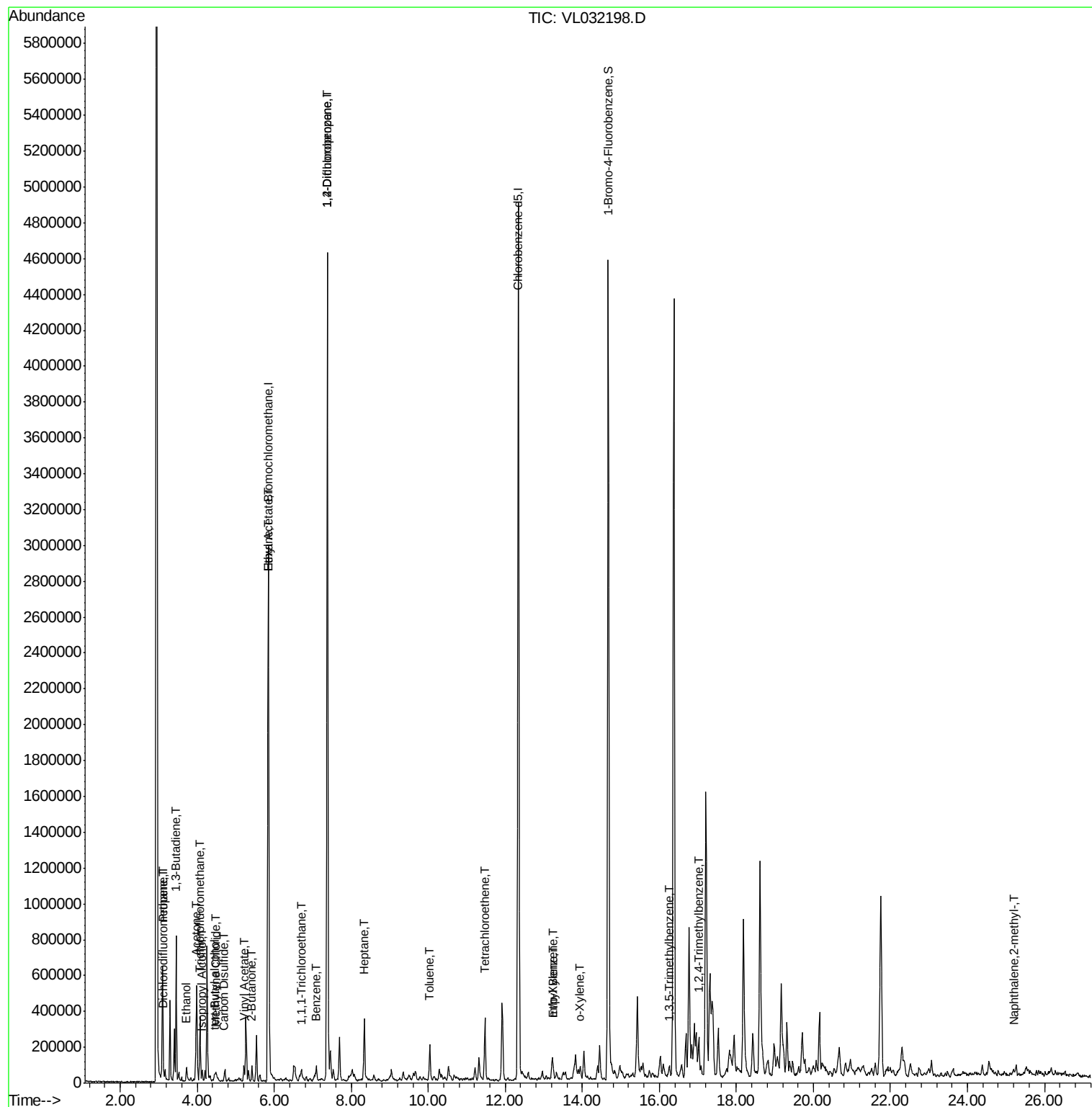
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.13	85	19886	0.105	ppbv	99
9) Propene	3.10	41	201642	2.466	ppbv #	77
10) Heptane	8.34	43	154272	0.647	ppbv	100
11) Trichlorofluoromethane	4.07	101	217956	1.066	ppbv	97
13) Ethanol	3.72	45	80968	3.267	ppbv	98
15) Acetone	3.97	43	485456	2.892	ppbv	97
16) 1,3-Butadiene	3.45	39	97751	1.220	ppbv #	18
17) tert-Butyl alcohol	4.46	59	23447	0.219	ppbv #	83
19) Isopropyl Alcohol	4.11	45	11490	0.082	ppbv #	1
20) Methylene Chloride	4.48	84	13783	0.225	ppbv #	87
23) Vinyl Acetate	5.22	43	19093	0.063	ppbv #	12
25) Ethyl Acetate	5.86	43	207069	0.596	ppbv #	77
26) Hexane	5.86	57	301635	1.886	ppbv #	45
27) Carbon Disulfide	4.69	76	9776	0.061	ppbv #	27
32) 1,1,1-Trichloroethane	6.71	97	21559	0.088	ppbv #	56
34) 2-Butanone	5.42	43	93928	0.435	ppbv	99
36) Benzene	7.09	78	56338	0.171	ppbv #	85
39) 1,2-Dichloropropane	7.38	63	911131	7.017	ppbv #	26
52) Tetrachloroethene	11.47	164	53162	0.444	ppbv	96
53) Toluene	10.04	91	148090	0.372	ppbv	98
58) Ethyl Benzene	13.24	91	27096	0.053	ppbv	99
59) m/p-Xylene	13.24	91	27096	0.066	ppbv #	29
60) o-Xylene	13.95	91	55222	0.135	ppbv	99
73) 1,3,5-Trimethylbenzene	16.26	105	36949	0.074	ppbv	88
74) 1,2,4-Trimethylbenzene	17.03	105	141340	0.282	ppbv #	71
80) Naphthalene, 2-methyl-	25.19	142	10958	0.067	ppbv #	83

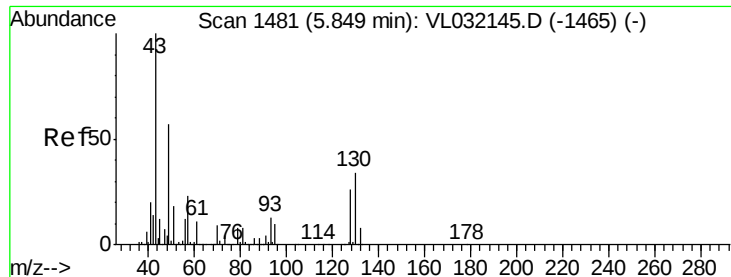
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 03 05:07:13 2018
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QLast Update : Fri Jun 29 22:27:58 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

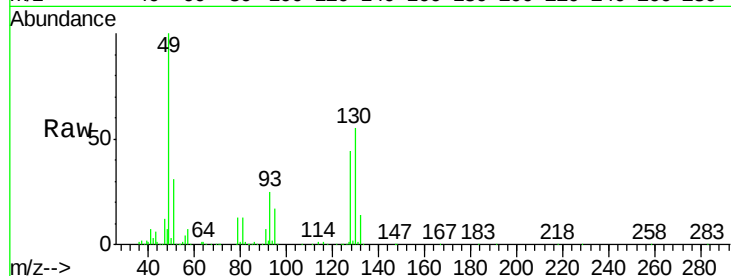
Tgt Ion: 49 Resp: 1435767

Ion Ratio Lower Upper

49 100

128 43.8 23.4 70.0

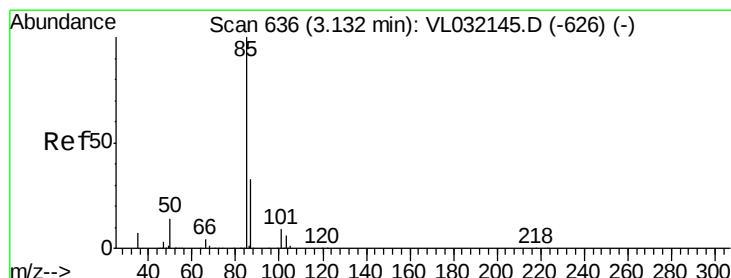
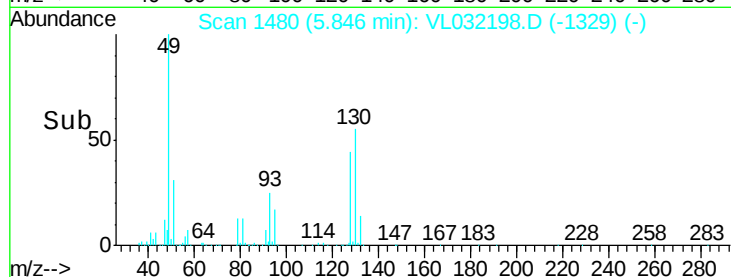
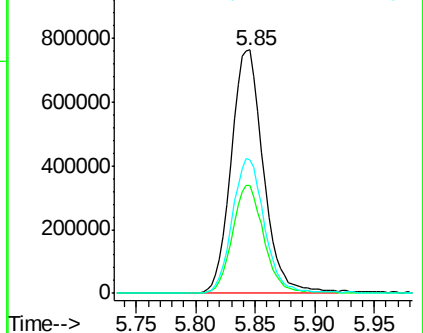
130 56.0 30.3 90.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.105 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.01 min

Lab File: VL032198.D

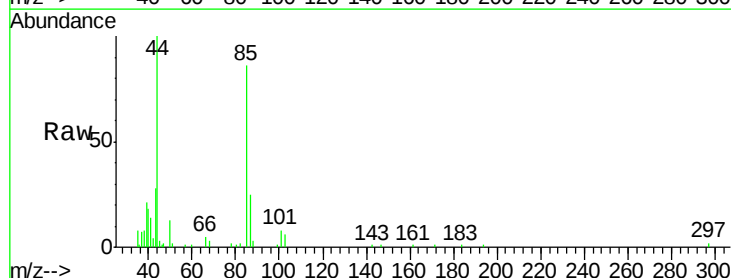
Acq: 3 Jul 2018 1:44

Tgt Ion: 85 Resp: 19886

Ion Ratio Lower Upper

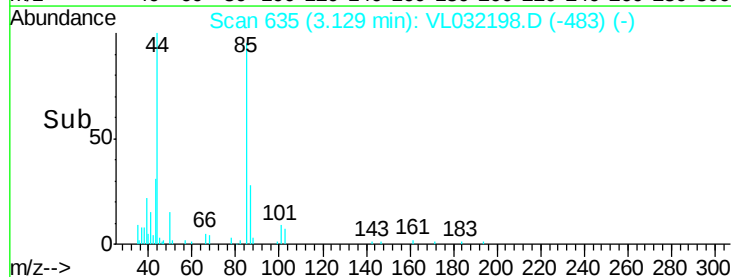
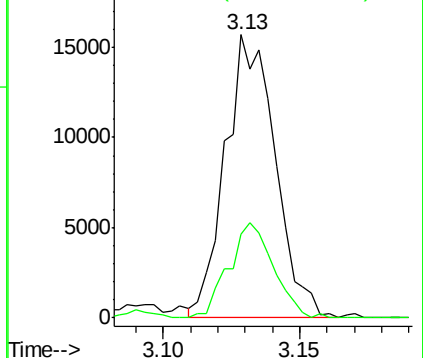
85 100

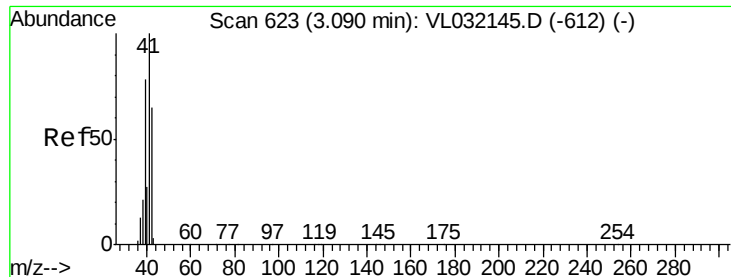
87 32.7 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 2.466 ppbv

RT: 3.10 min Scan# 626

Delta R.T. 0.00 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

ClientSampleId :

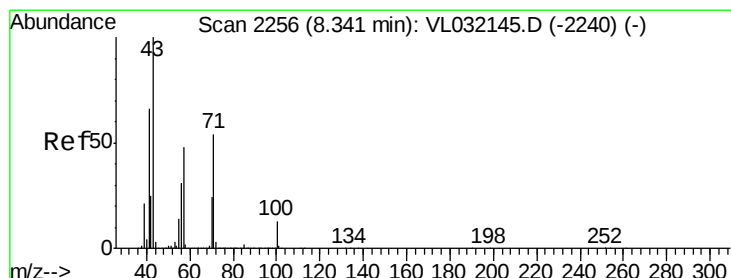
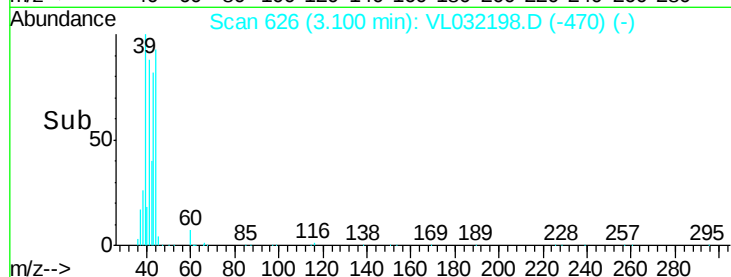
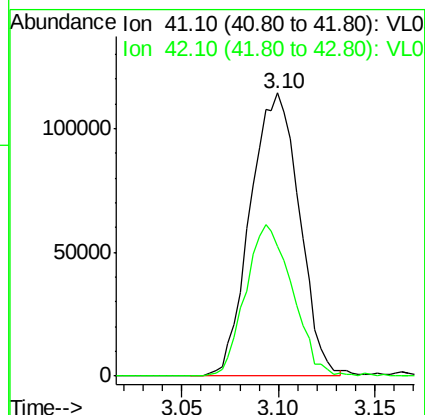
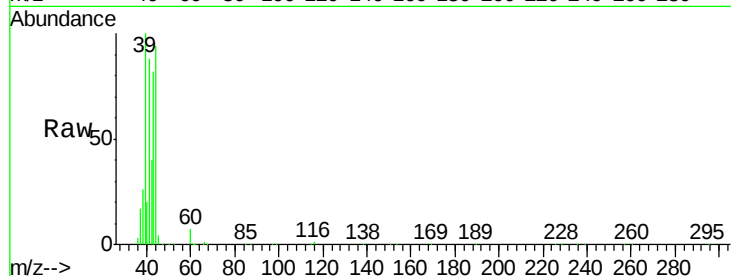
SS-3DL

Tgt Ion: 41 Resp: 201642

Ion Ratio Lower Upper

41 100

42 51.4 56.2 84.4#



#10

Heptane

Concen: 0.647 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. -0.02 min

Lab File: VL032198.D

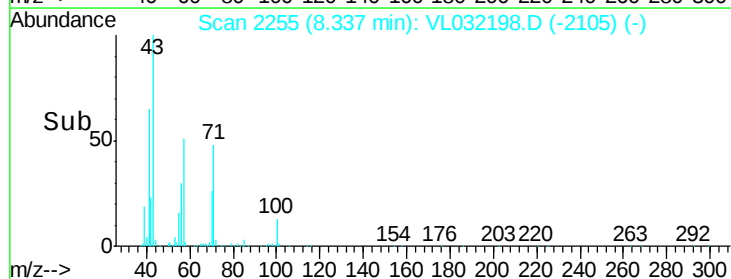
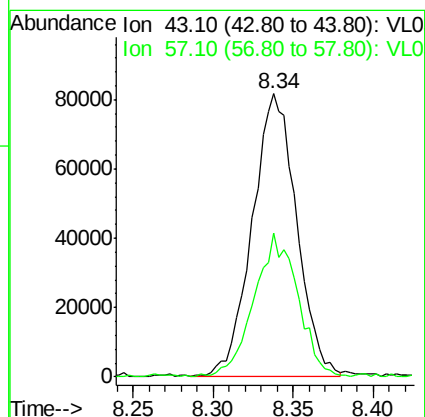
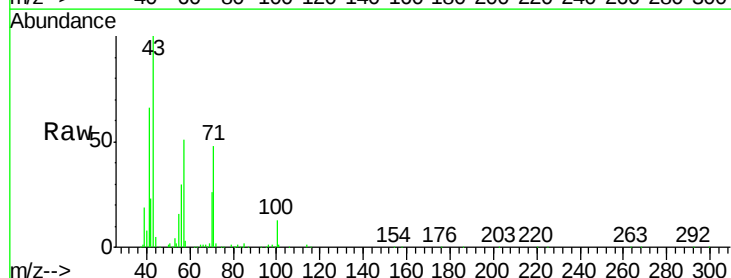
Acq: 3 Jul 2018 1:44

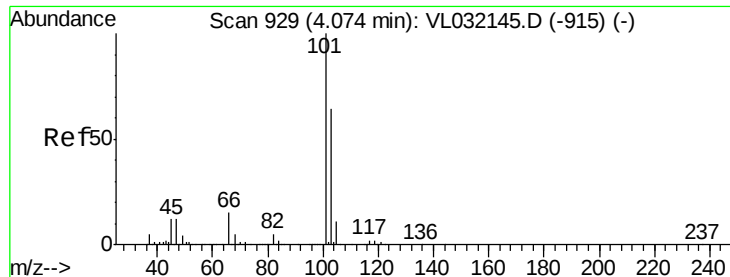
Tgt Ion: 43 Resp: 154272

Ion Ratio Lower Upper

43 100

57 50.1 39.8 59.8

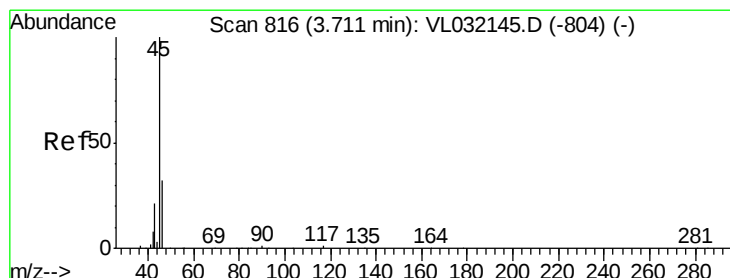
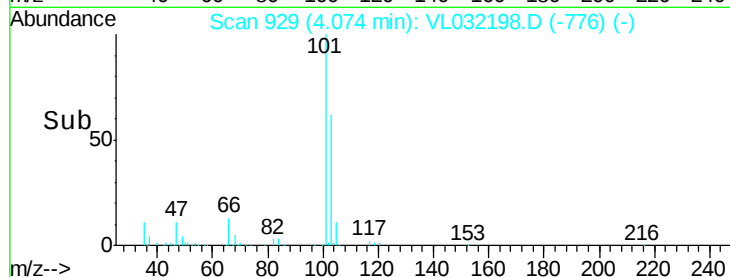
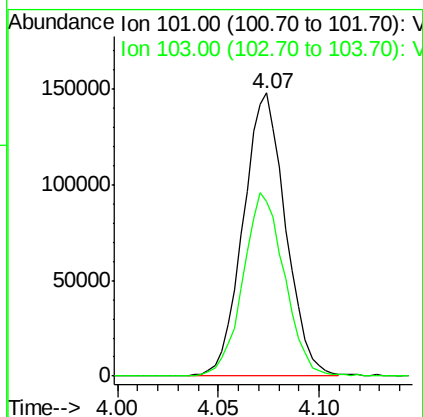
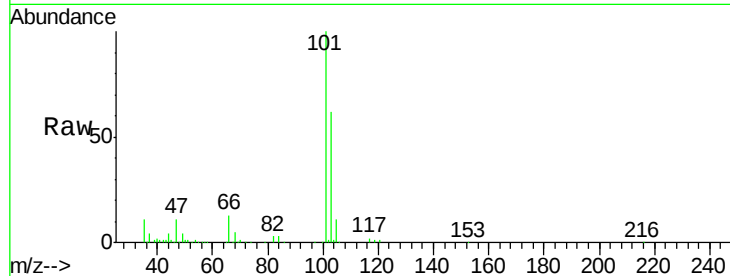




#11
 Trichlorofluoromethane
 Concen: 1.066 ppbv
 RT: 4.07 min Scan# 929
 Delta R.T. -0.01 min
 Lab File: VL032198.D
 Acq: 3 Jul 2018 1:44

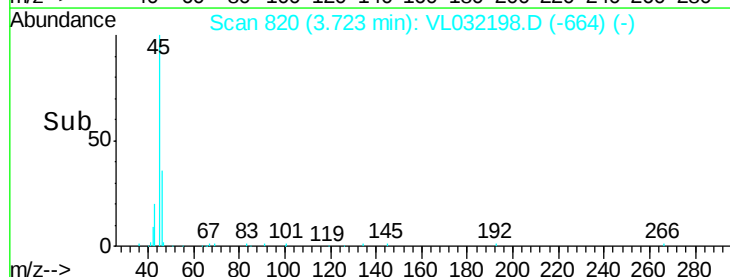
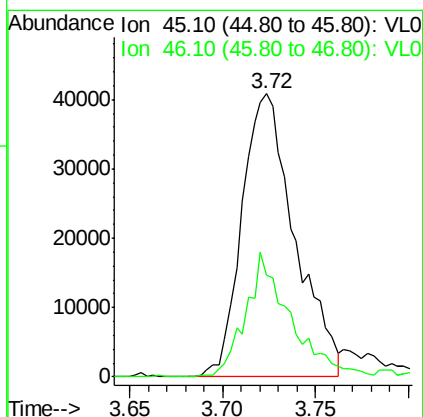
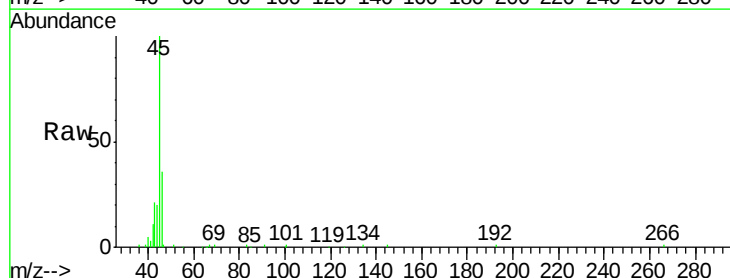
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3DL

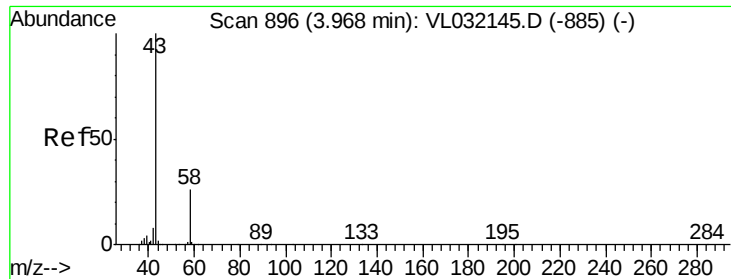
Tgt Ion: 101 Resp: 217956
 Ion Ratio Lower Upper
 101 100
 103 61.6 51.4 77.0



#13
 Ethanol
 Concen: 3.267 ppbv
 RT: 3.72 min Scan# 820
 Delta R.T. 0.00 min
 Lab File: VL032198.D
 Acq: 3 Jul 2018 1:44

Tgt Ion: 45 Resp: 80968
 Ion Ratio Lower Upper
 45 100
 46 37.9 14.6 58.4





#15

Acetone

Concen: 2.892 ppbv

RT: 3.97 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

ClientSampleId :

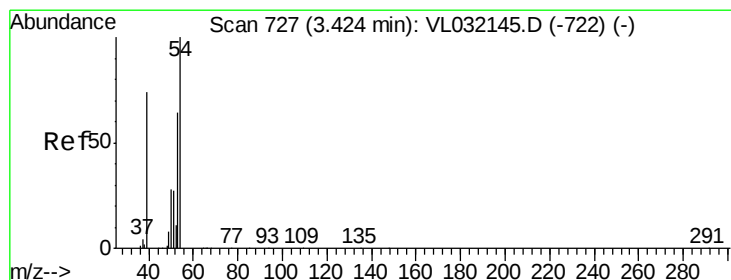
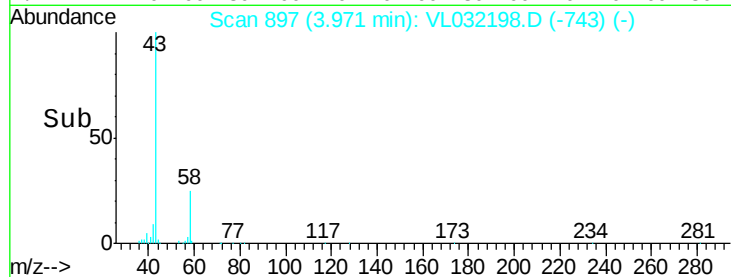
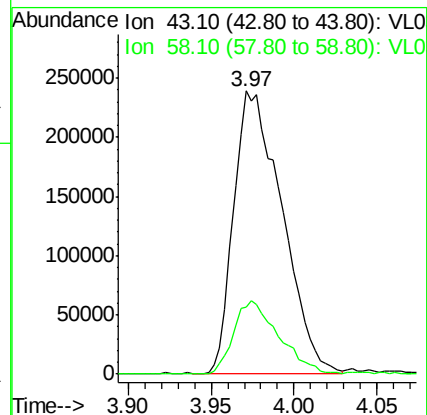
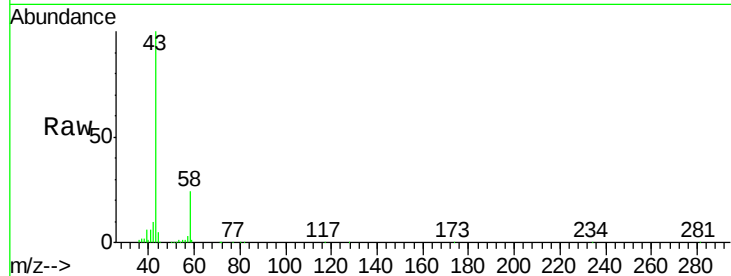
SS-3DL

Tgt Ion: 43 Resp: 485456

Ion Ratio Lower Upper

43 100

58 25.1 21.4 32.0



#16

1,3-Butadiene

Concen: 1.220 ppbv

RT: 3.45 min Scan# 736

Delta R.T. 0.02 min

Lab File: VL032198.D

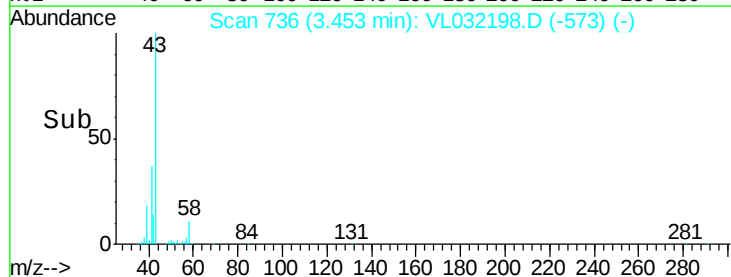
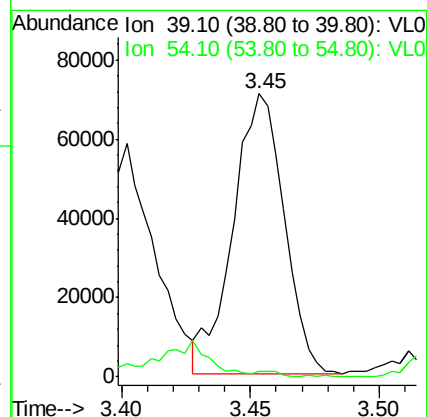
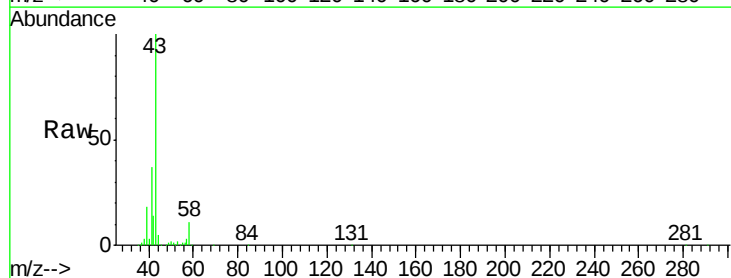
Acq: 3 Jul 2018 1:44

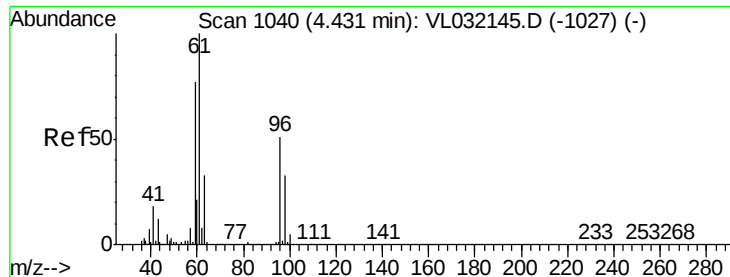
Tgt Ion: 39 Resp: 97751

Ion Ratio Lower Upper

39 100

54 15.4 75.8 113.6#

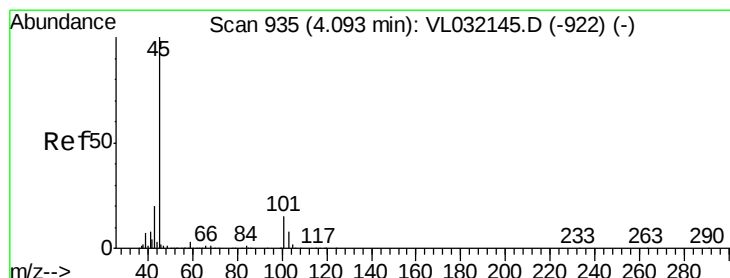
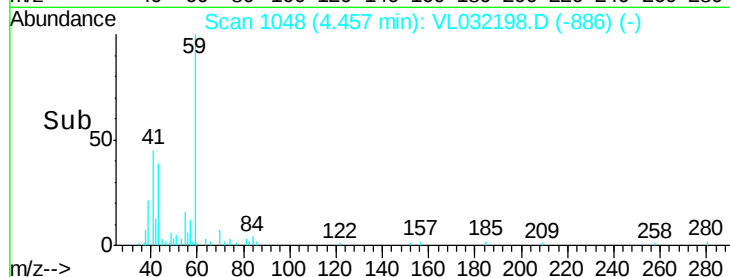
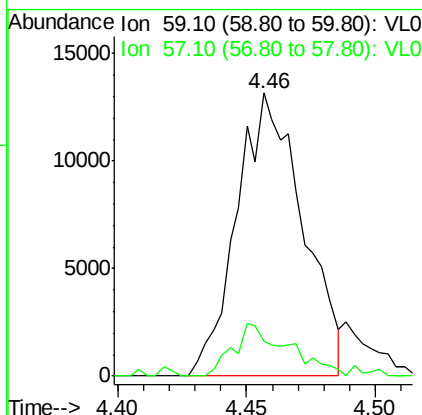
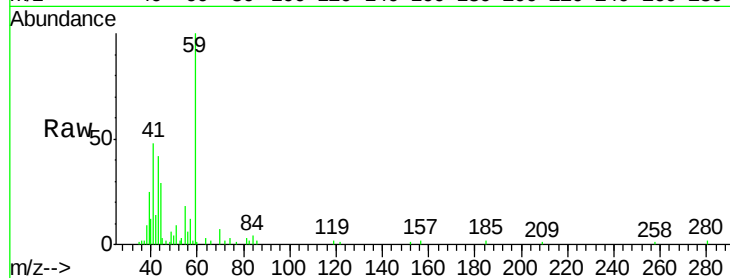




#17
tert-Butyl alcohol
Concen: 0.219 ppbv
RT: 4.46 min Scan# 1048
Delta R.T. 0.02 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

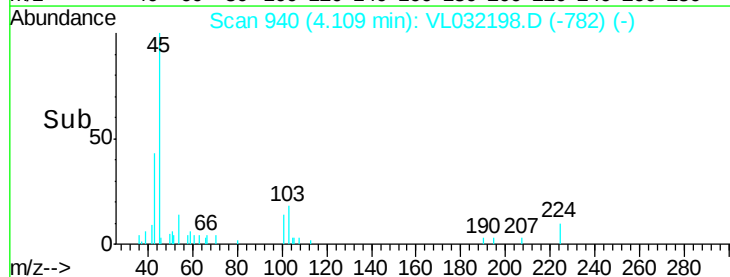
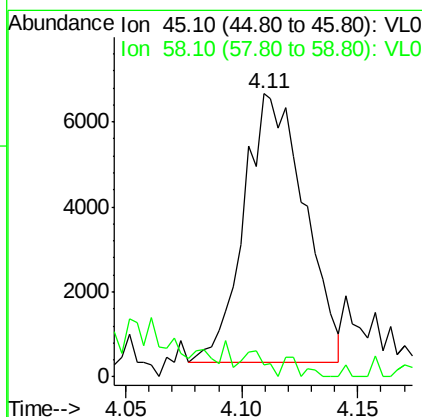
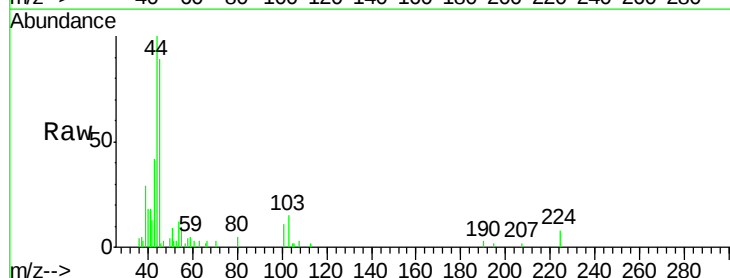
Instrument :
MSVOA_L
ClientSampled :
SS-3DL

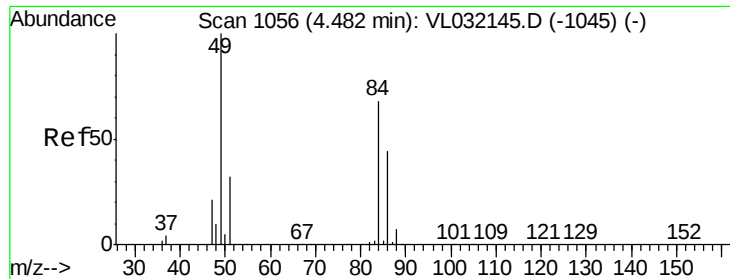
Tgt Ion: 59 Resp: 23447
Ion Ratio Lower Upper
59 100
57 16.4 8.2 12.2#



#19
Isopropyl Alcohol
Concen: 0.082 ppbv
RT: 4.11 min Scan# 940
Delta R.T. 0.01 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Tgt Ion: 45 Resp: 11490
Ion Ratio Lower Upper
45 100
58 1048.9 29.4 44.0#

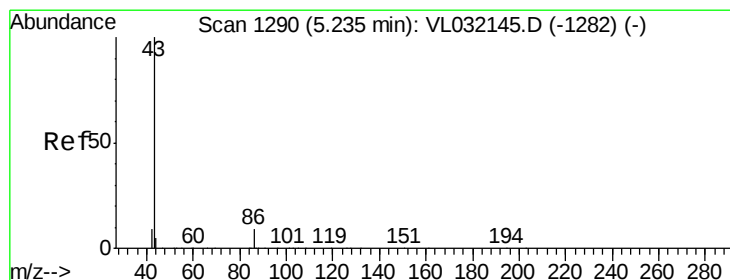
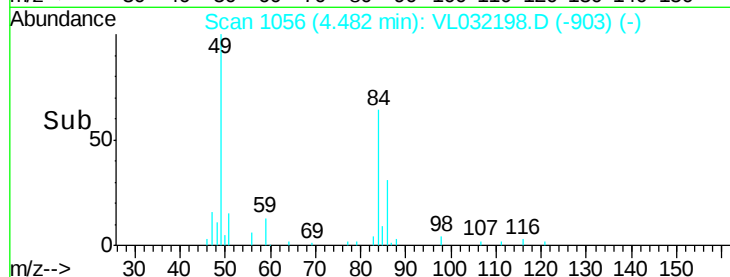
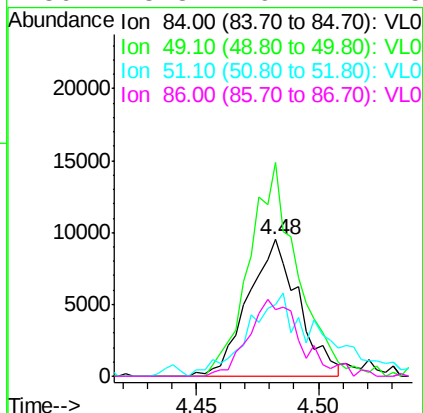
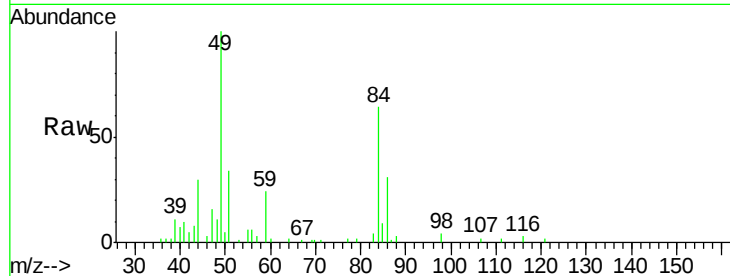




#20
Methylene Chloride
Concen: 0.225 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

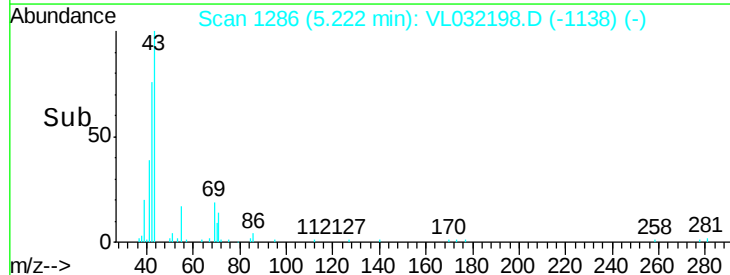
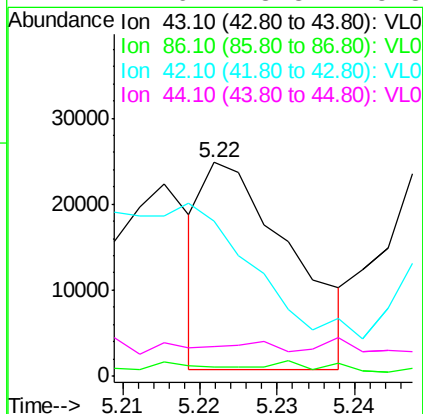
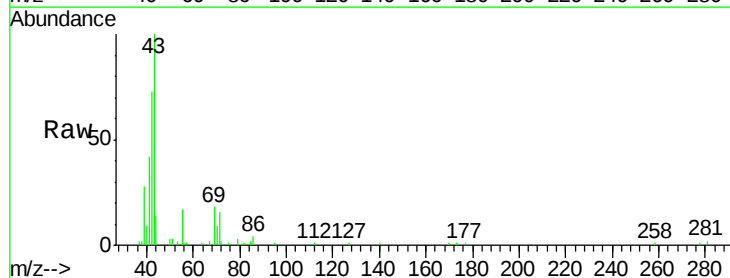
Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

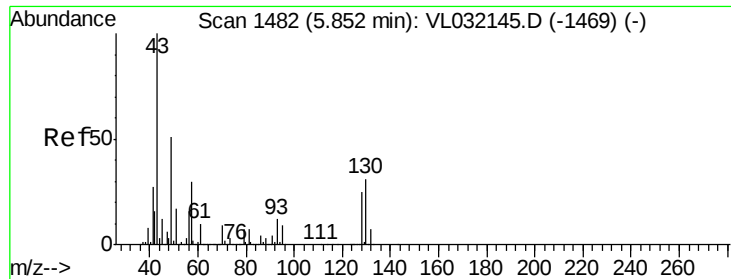
Tgt Ion: 84 Resp: 13783
Ion Ratio Lower Upper
84 100
49 164.0 119.6 179.4
51 52.6 36.3 54.5
86 48.8 49.7 74.5#



#23
Vinyl Acetate
Concen: 0.063 ppbv
RT: 5.22 min Scan# 1286
Delta R.T. -0.03 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Tgt Ion: 43 Resp: 19093
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#
42 77.4 6.9 10.3#
44 1.6 3.8 5.8#

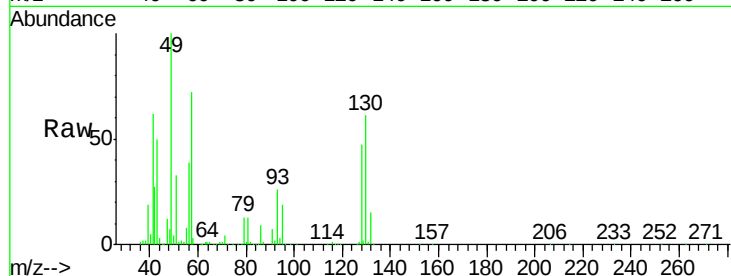




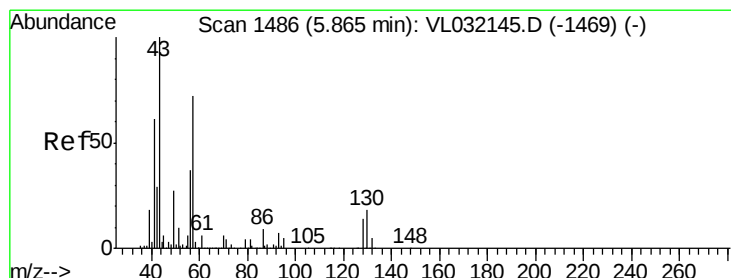
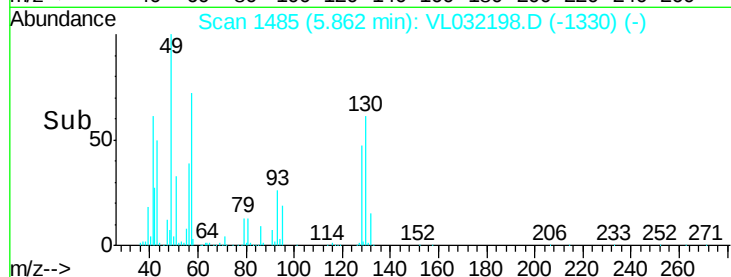
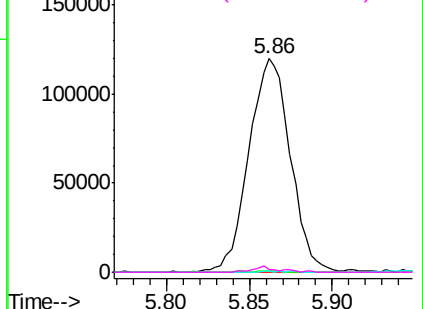
#25
Ethyl Acetate
Concen: 0.596 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.00 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

Tgt Ion:	43	Resp:	207069
Ion	Ratio	Lower	Upper
43	100		
45	0.4	7.8	11.8#
61	0.3	7.4	11.0#
70	1.8	6.1	9.1#

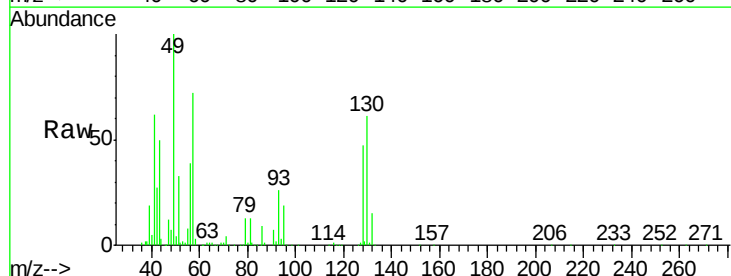


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

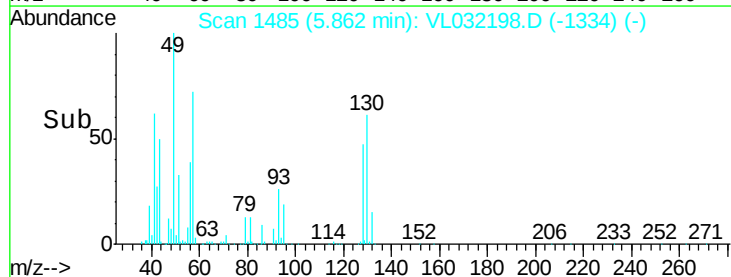
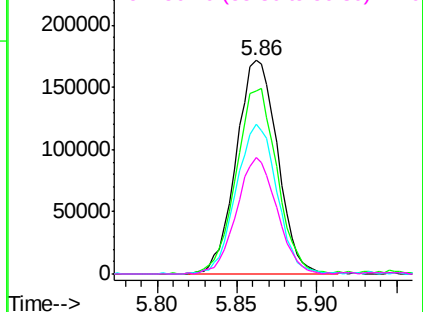


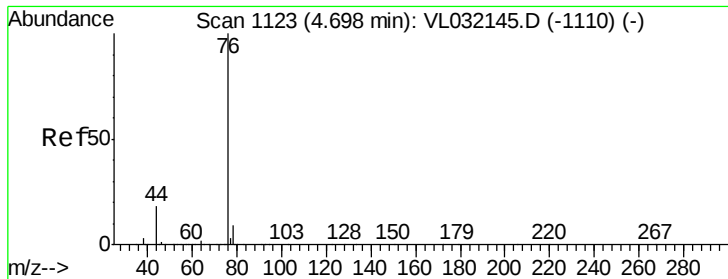
#26
Hexane
Concen: 1.886 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Tgt Ion:	57	Resp:	301635
Ion	Ratio	Lower	Upper
57	100		
41	86.1	68.6	103.0
43	68.9	168.6	252.8#
56	53.5	41.0	61.6



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.061 ppbv

RT: 4.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

ClientSampled :

SS-3DL

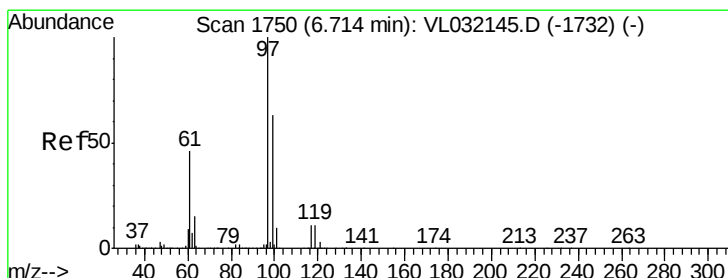
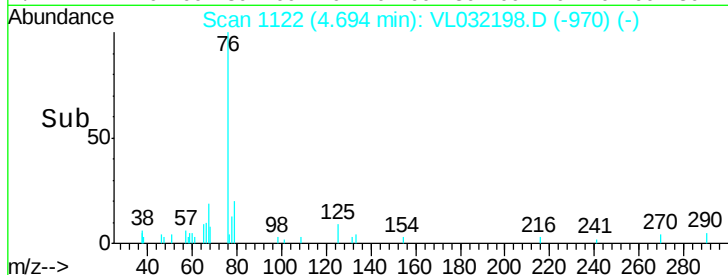
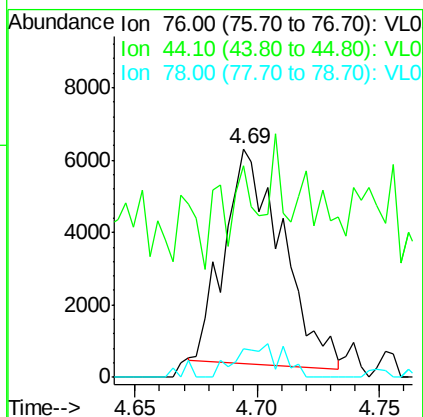
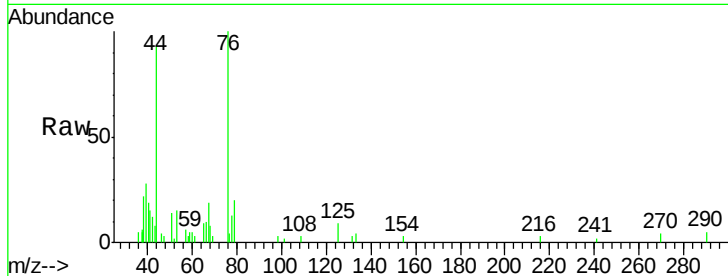
Tgt Ion: 76 Resp: 9776

Ion Ratio Lower Upper

76 100

44 65.3 15.1 22.7#

78 13.0 7.2 10.8#



#32

1,1,1-Trichloroethane

Concen: 0.088 ppbv

RT: 6.71 min Scan# 1748

Delta R.T. -0.02 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

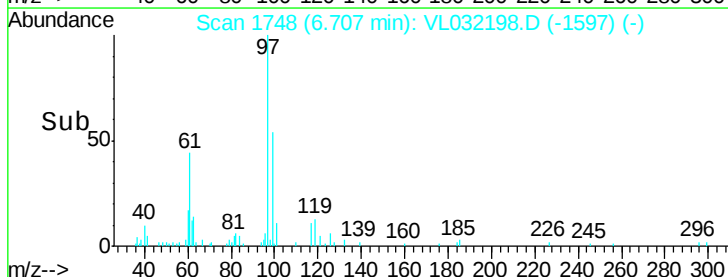
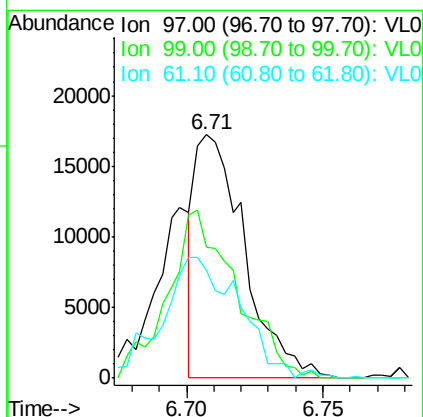
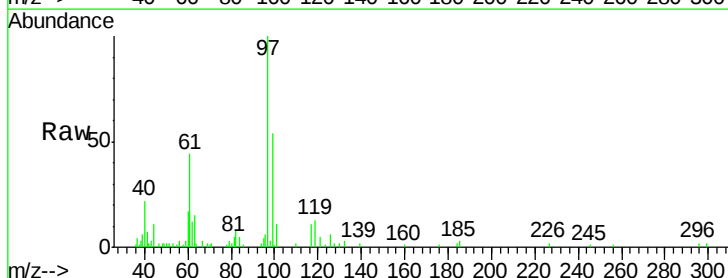
Tgt Ion: 97 Resp: 21559

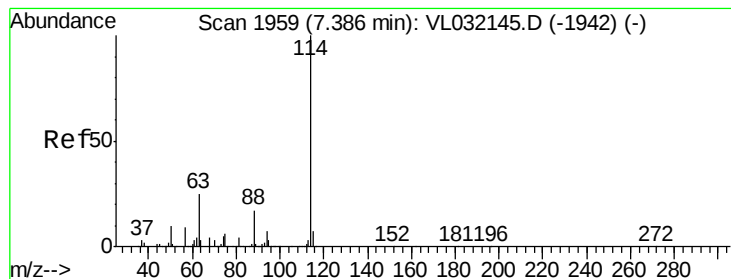
Ion Ratio Lower Upper

97 100

99 96.5 51.3 76.9#

61 80.7 38.4 57.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.38 min Scan# 1957

Delta R.T. -0.02 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

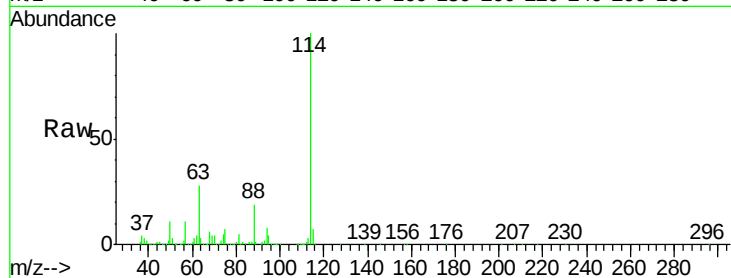
Tgt Ion:114 Resp: 3401828

Ion Ratio Lower Upper

114 100

63 27.2 19.1 28.7

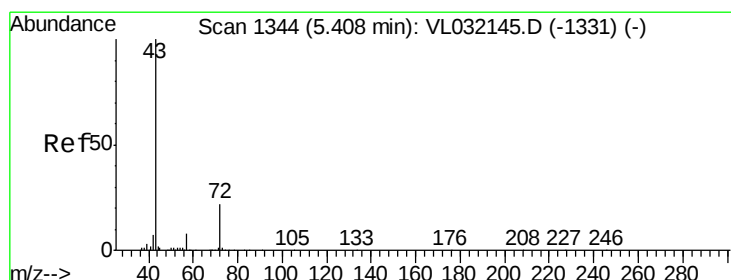
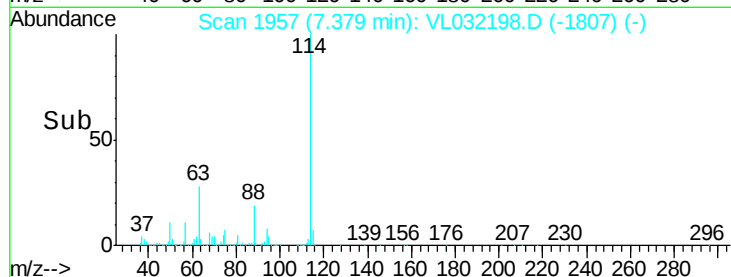
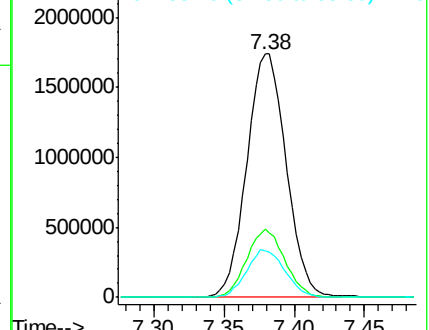
88 19.3 13.9 20.9



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.435 ppbv

RT: 5.42 min Scan# 1348

Delta R.T. 0.00 min

Lab File: VL032198.D

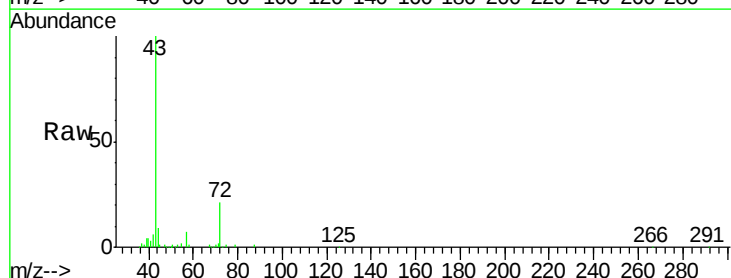
Acq: 3 Jul 2018 1:44

Tgt Ion: 43 Resp: 93928

Ion Ratio Lower Upper

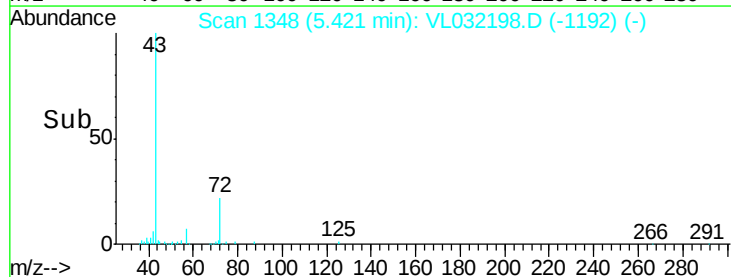
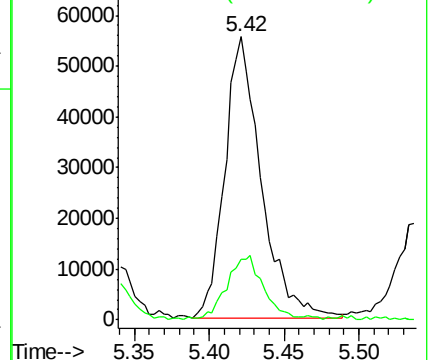
43 100

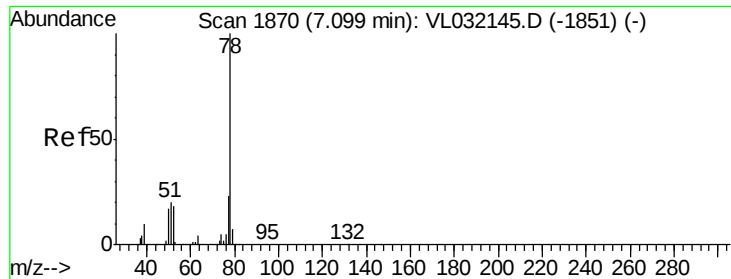
72 23.5 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.171 ppbv

RT: 7.09 min Scan# 1868

Delta R.T. -0.02 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

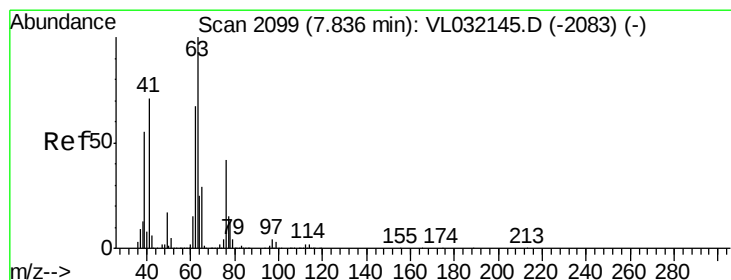
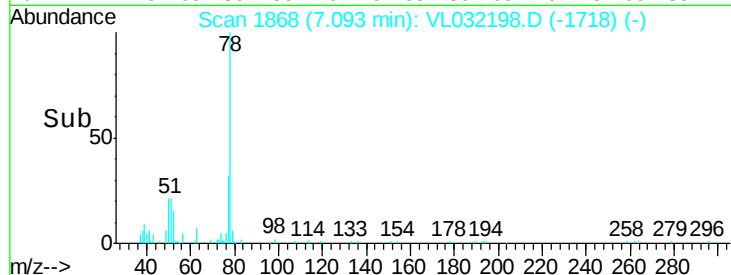
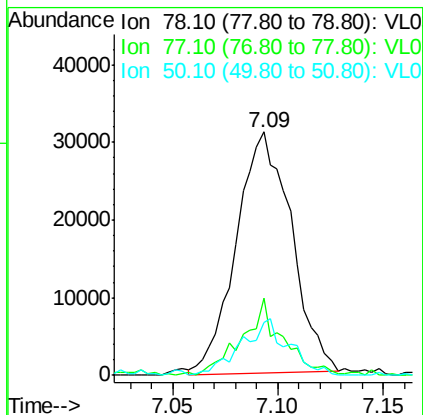
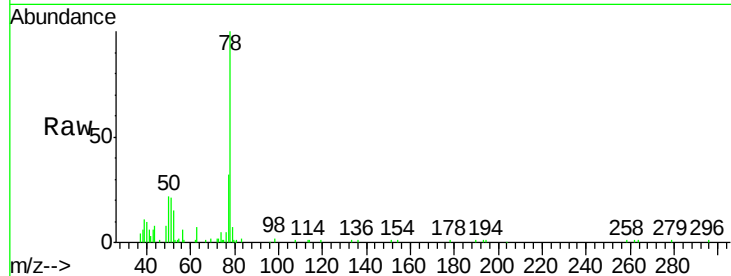
Tgt Ion: 78 Resp: 56338

Ion Ratio Lower Upper

78 100

77 31.3 17.7 26.5#

50 21.9 14.0 21.0#



#39

1,2-Dichloropropane

Concen: 7.017 ppbv

RT: 7.38 min Scan# 1957

Delta R.T. -0.47 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

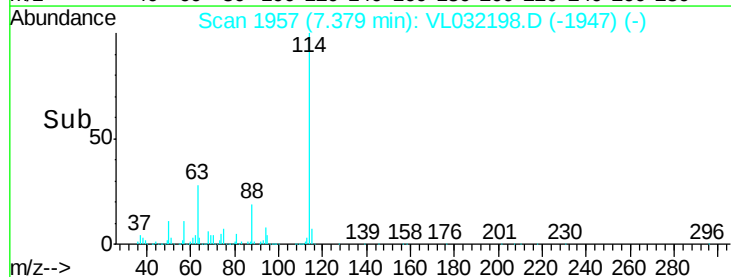
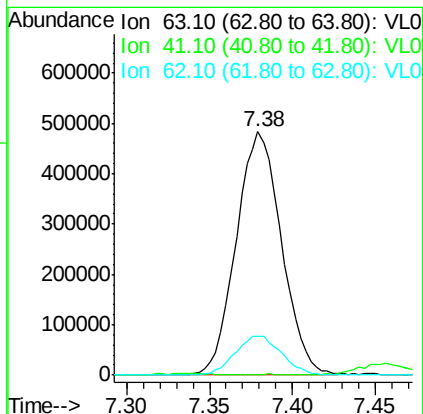
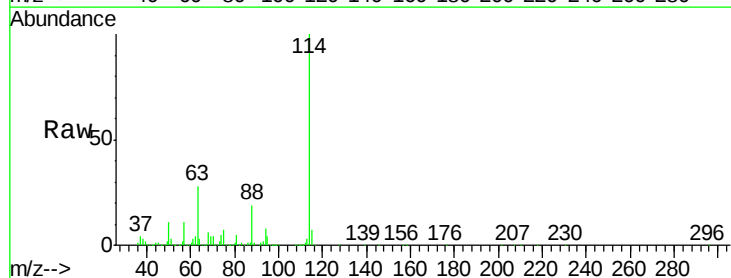
Tgt Ion: 63 Resp: 911131

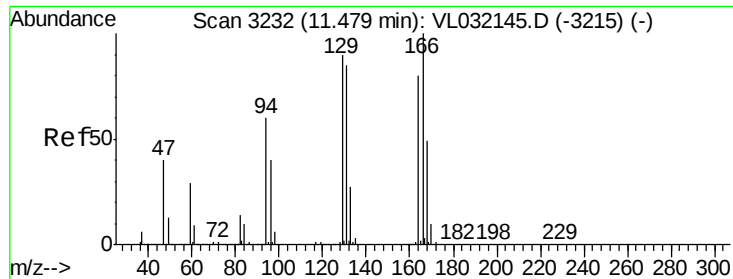
Ion Ratio Lower Upper

63 100

41 0.0 53.3 79.9#

62 15.9 54.8 82.2#





#52

Tetrachloroethene

Concen: 0.444 ppbv

RT: 11.47 min Scan# 3230

Delta R.T. -0.02 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

Tgt Ion:164 Resp: 53162

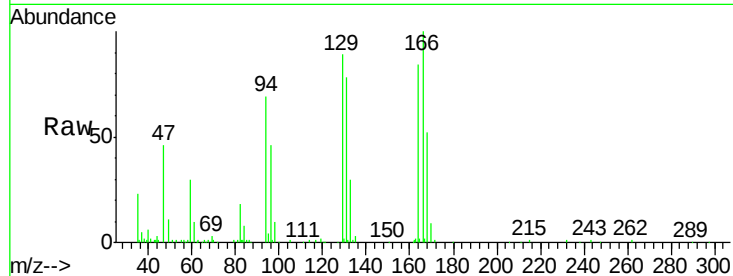
Ion Ratio Lower Upper

164 100

166 120.8 100.6 151.0

129 105.3 84.0 126.0

131 95.8 82.7 124.1

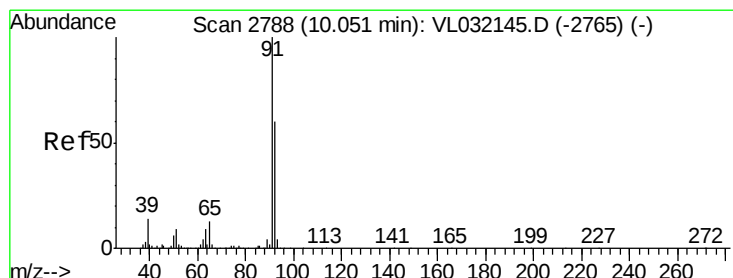
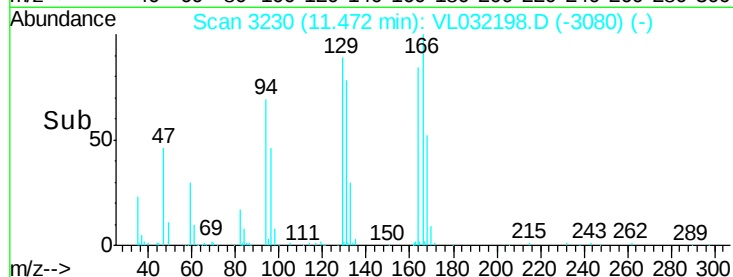
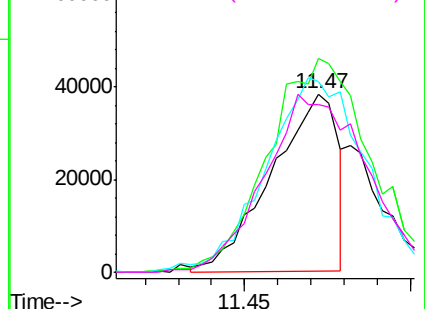


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.372 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032198.D

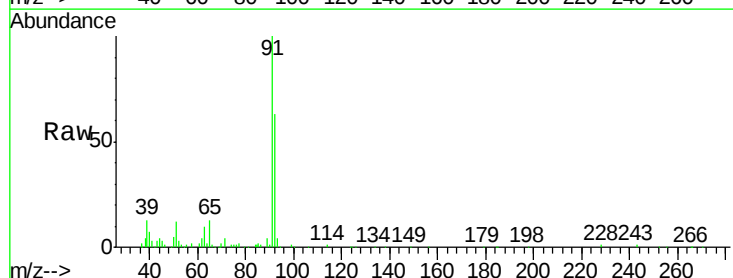
Acq: 3 Jul 2018 1:44

Tgt Ion: 91 Resp: 148090

Ion Ratio Lower Upper

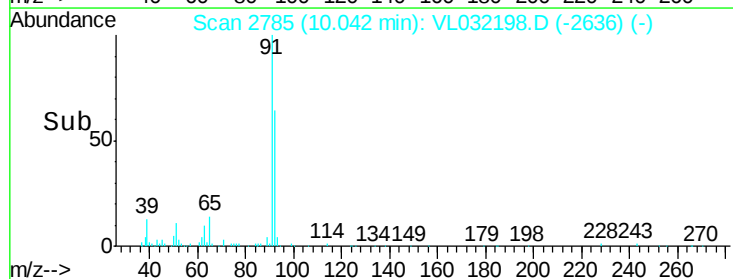
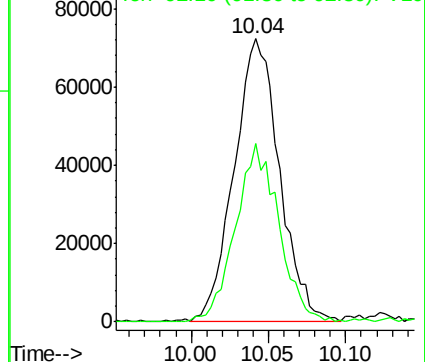
91 100

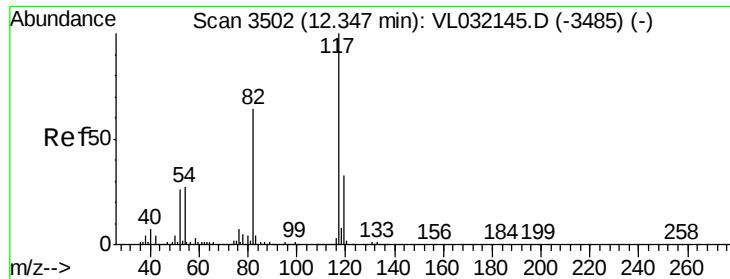
92 60.1 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.34 min Scan# 3500

Delta R.T. -0.02 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

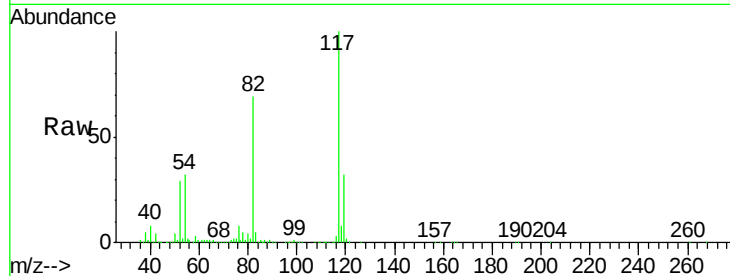
Tgt Ion: 117 Resp: 3169102

Ion Ratio Lower Upper

117 100

82 69.6 47.8 71.8

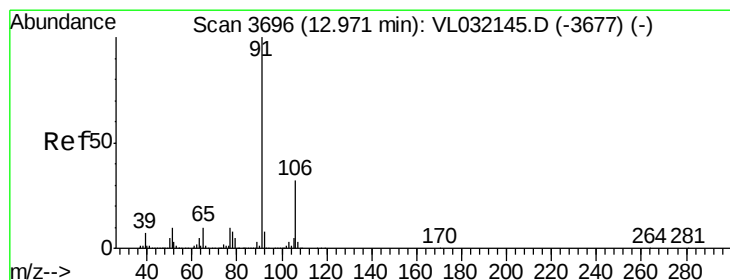
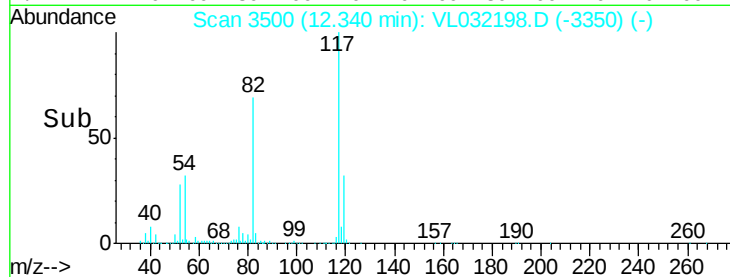
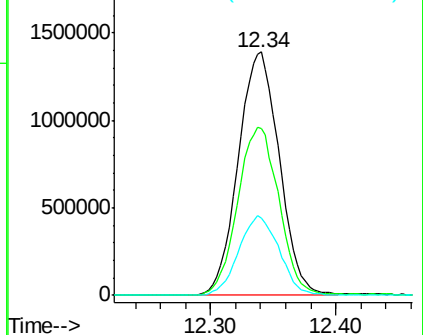
119 32.3 43.3 64.9#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.053 ppbv

RT: 13.24 min Scan# 3780

Delta R.T. 0.26 min

Lab File: VL032198.D

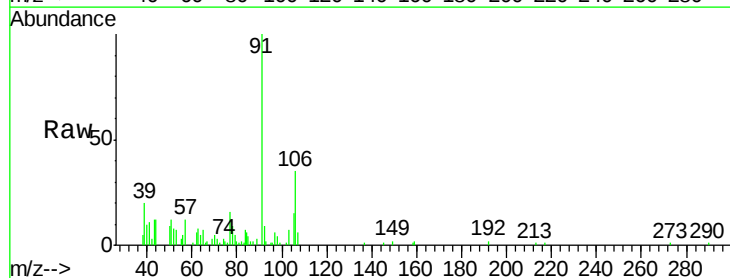
Acq: 3 Jul 2018 1:44

Tgt Ion: 91 Resp: 27096

Ion Ratio Lower Upper

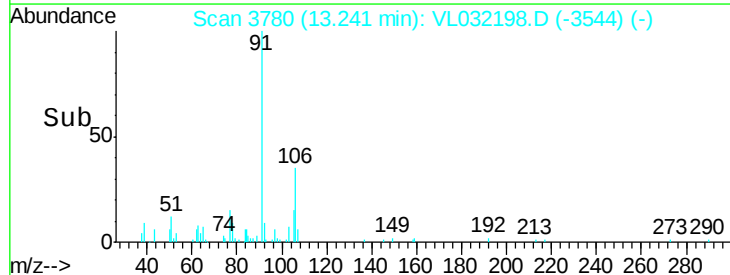
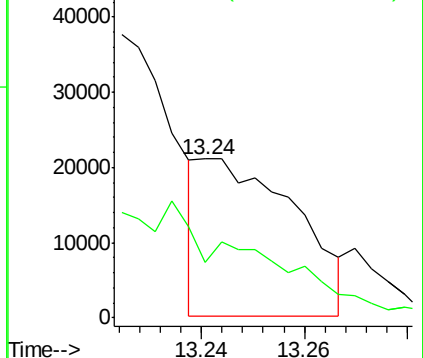
91 100

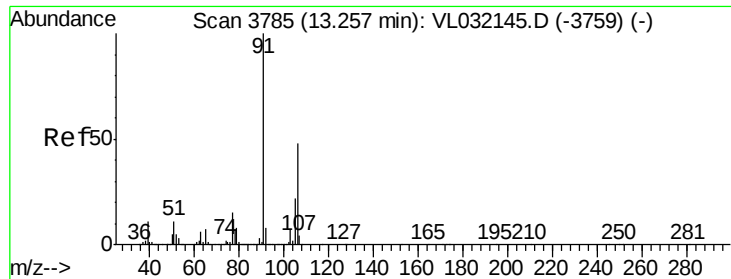
106 33.9 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

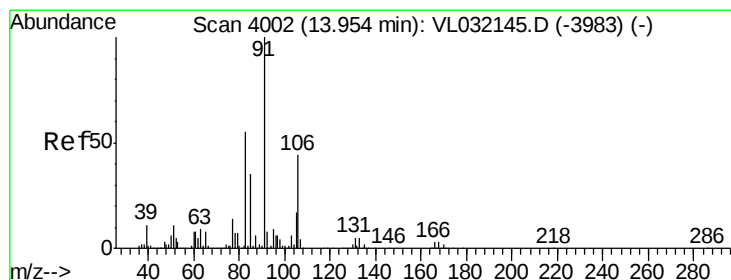
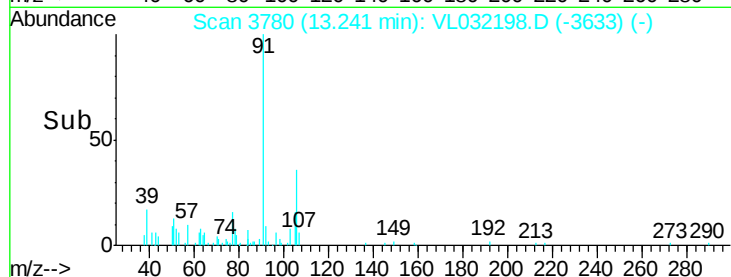
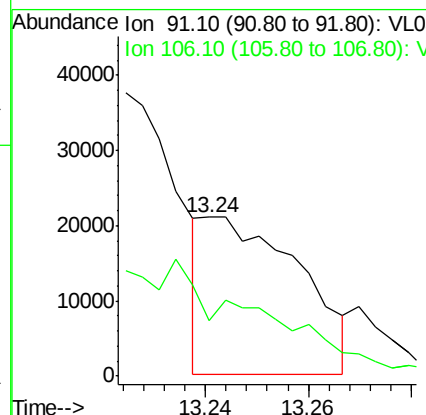
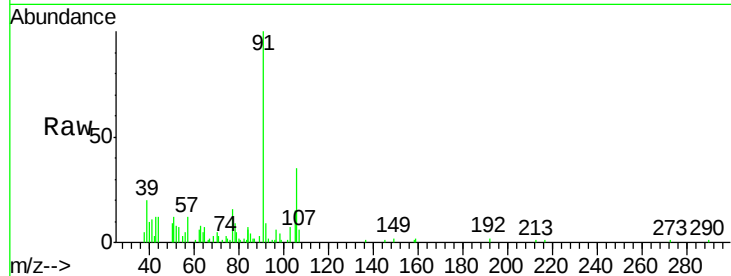




#59
m/p-Xylene
Concen: 0.066 ppbv
RT: 13.24 min Scan# 3780
Delta R.T. -0.03 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

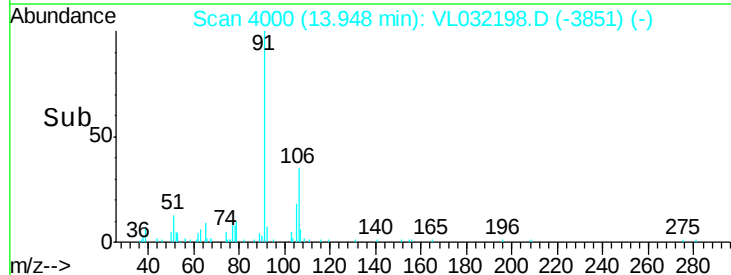
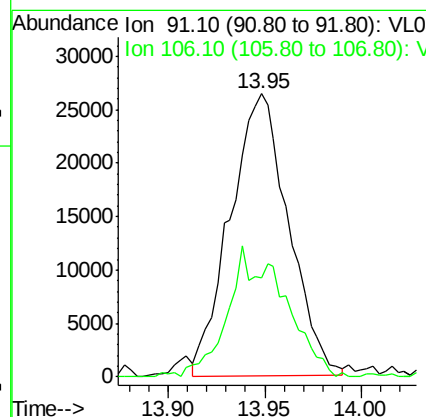
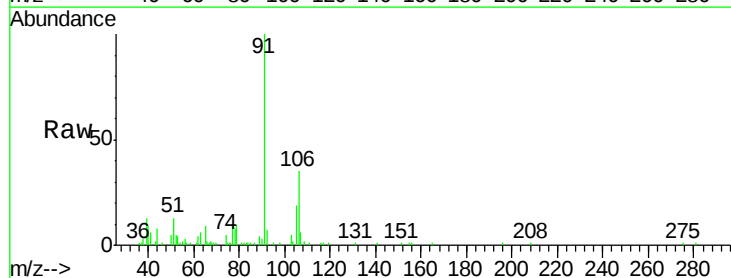
Instrument :
MSVOA_L
ClientSampled :
SS-3DL

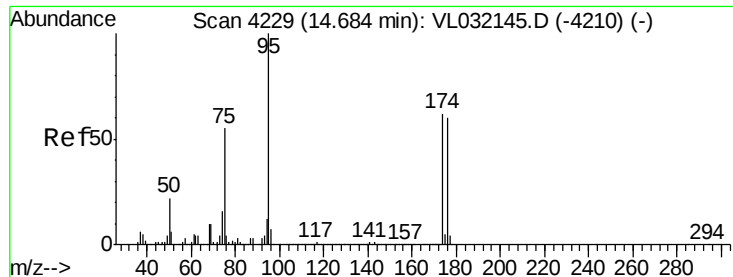
Tgt Ion: 91 Resp: 27096
Ion Ratio Lower Upper
91 100
106 0.0 38.6 58.0#



#60
o-Xylene
Concen: 0.135 ppbv
RT: 13.95 min Scan# 4000
Delta R.T. -0.02 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Tgt Ion: 91 Resp: 55222
Ion Ratio Lower Upper
91 100
106 45.6 23.3 69.8

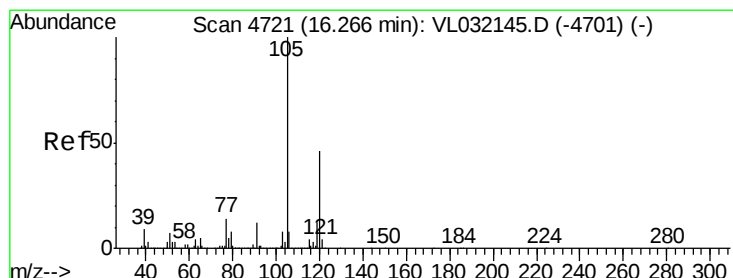
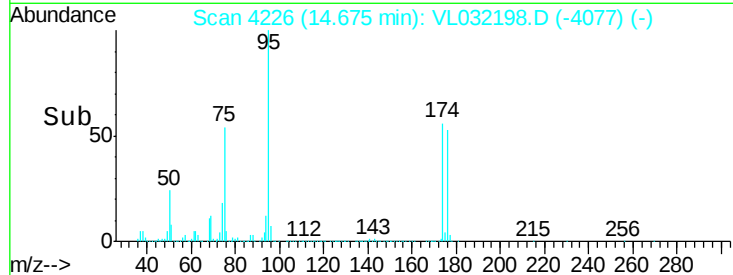
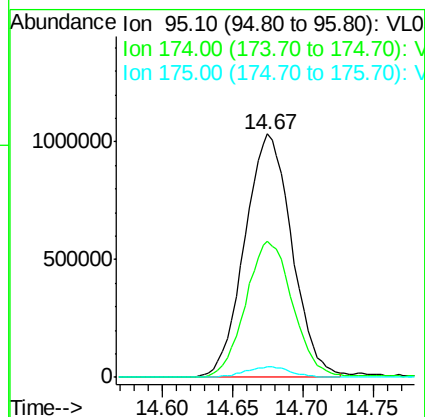
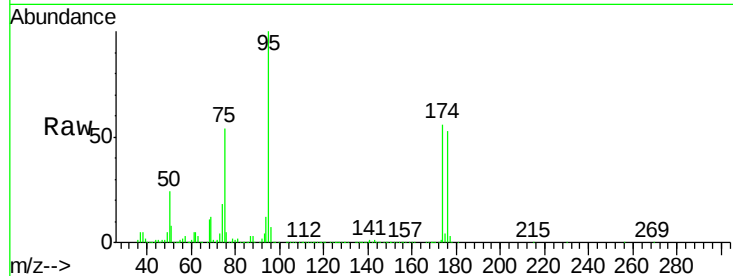




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.956 ppbv
 RT: 14.67 min Scan# 4226
 Delta R.T. -0.02 min
 Lab File: VL032198.D
 Acq: 3 Jul 2018 1:44

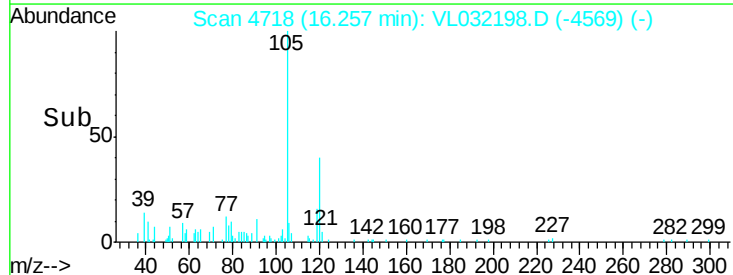
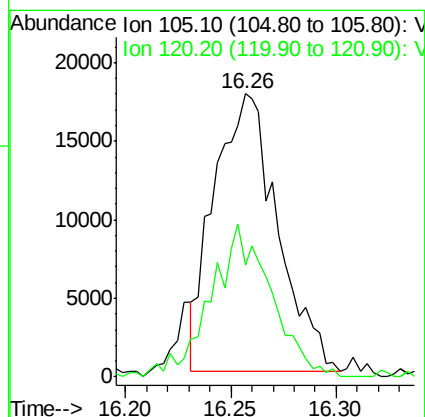
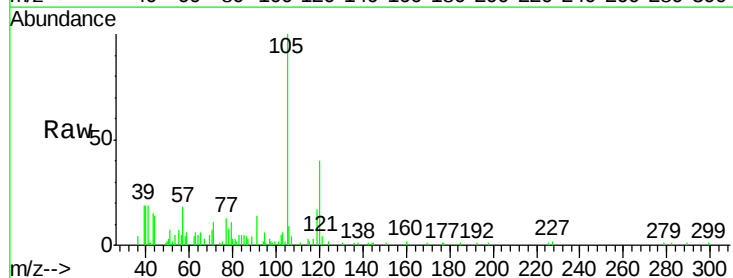
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3DL

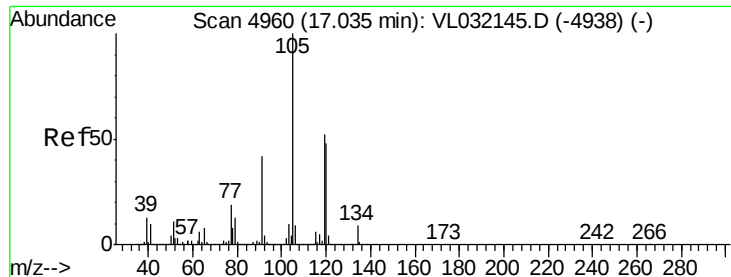
Tgt Ion: 95 Resp: 2411898
 Ion Ratio Lower Upper
 95 100
 174 57.0 52.1 78.1
 175 4.3 4.0 6.0



#73
 1,3,5-Trimethylbenzene
 Concen: 0.074 ppbv
 RT: 16.26 min Scan# 4718
 Delta R.T. -0.02 min
 Lab File: VL032198.D
 Acq: 3 Jul 2018 1:44

Tgt Ion: 105 Resp: 36949
 Ion Ratio Lower Upper
 105 100
 120 40.4 38.6 57.8

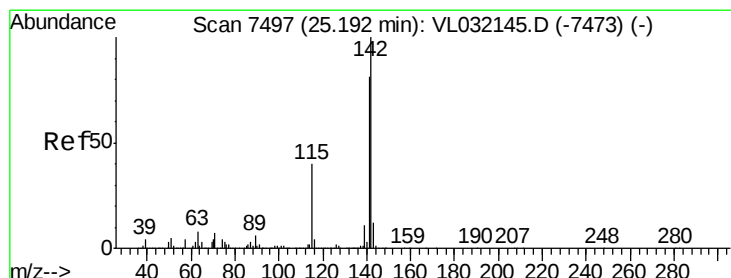
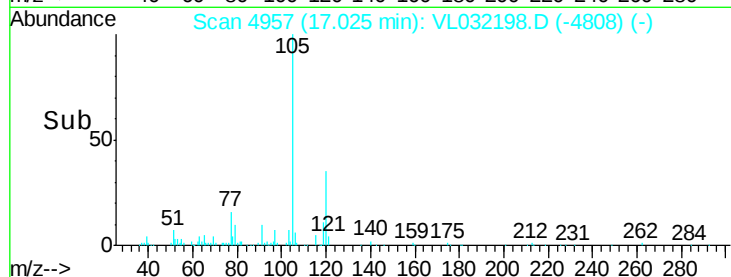
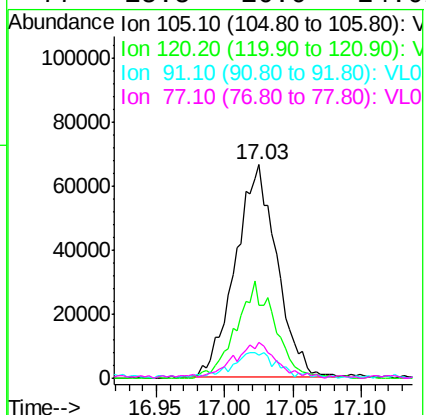
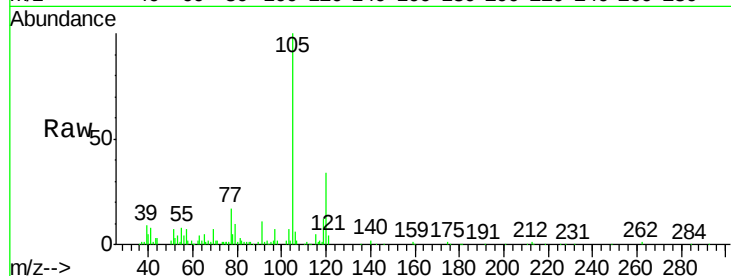




#74
 1,2,4-Trimethylbenzene
 Concen: 0.282 ppbv
 RT: 17.03 min Scan# 4957
 Delta R.T. -0.02 min
 Lab File: VL032198.D
 Acq: 3 Jul 2018 1:44

Instrument :
 MSVOA_L
 ClientSampled :
 SS-3DL

Tgt Ion	Ratio	Lower	Upper
105	100		
120	34.6	38.8	58.2#
91	11.0	33.6	50.4#
77	15.5	16.0	24.0#



#80
 Naphthalene, 2-methyl-
 Concen: 0.067 ppbv
 RT: 25.19 min Scan# 7497
 Delta R.T. -0.01 min
 Lab File: VL032198.D
 Acq: 3 Jul 2018 1:44

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.2	65.8	98.6
115	68.5	29.4	44.0#

