

Data File : VL032707.D
Acq On : 30 Oct 2018 20:40
Operator : SY/AP
Sample : J5693-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

Quant Time: Oct 31 05:11:44 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LThu Oct 25 05:15:43 2018
QLast Update : Thu Oct 25 05:15:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1388078	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3511484	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3420787	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.59 95 2578336 10.12 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.20%

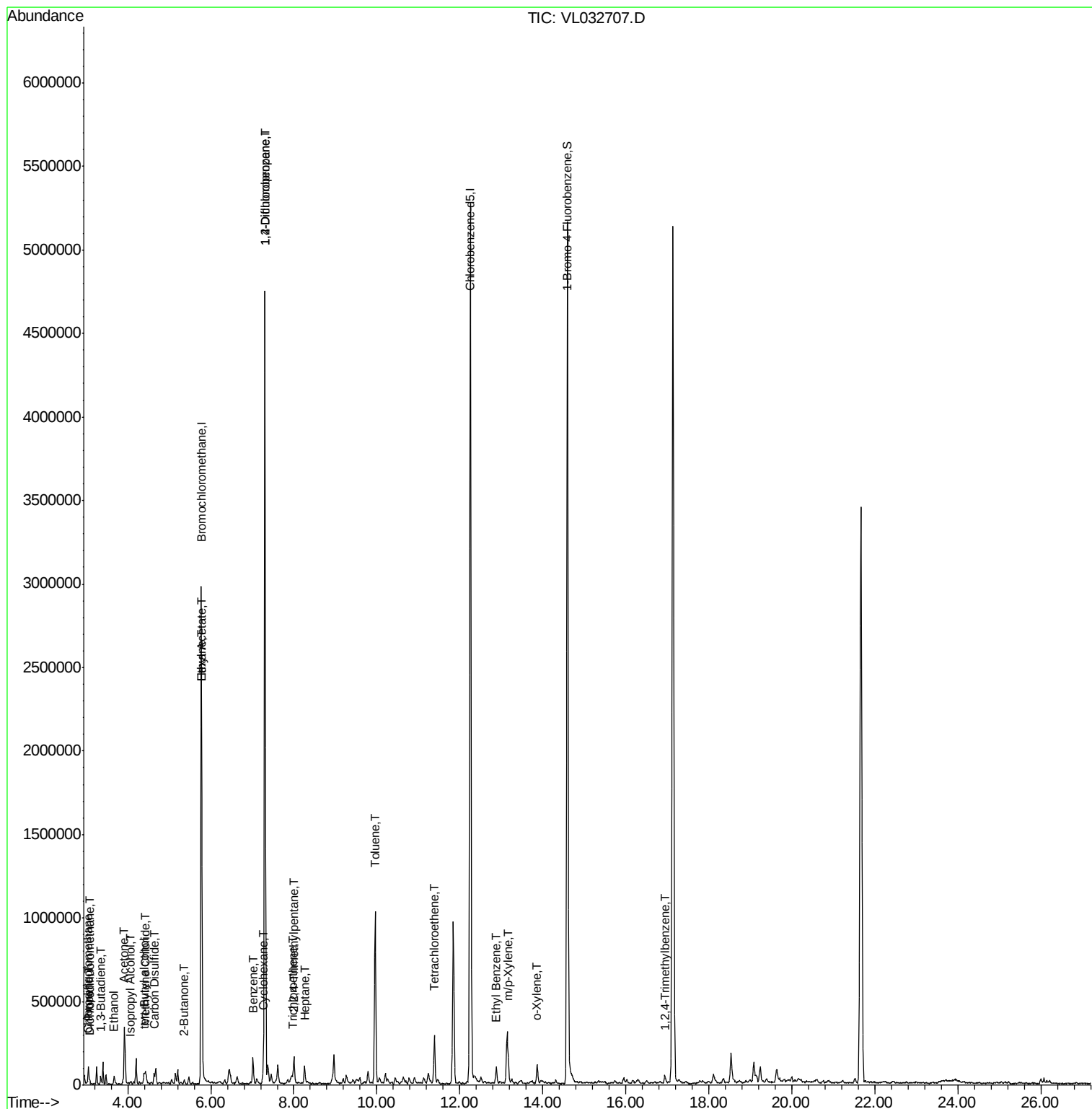
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	13789	0.098	ppbv	93
3) Chlorodifluoromethane	3.03	51	5412	0.050	ppbv	99
9) Propene	3.05	41	20456	0.458	ppbv	89
10) Heptane	8.25	43	17702	0.103	ppbv #	26
13) Ethanol	3.67	45	48825	3.824	ppbv	98
15) Acetone	3.91	43	367391	2.866	ppbv	95
16) 1,3-Butadiene	3.35	39	14263	0.302	ppbv #	12
17) tert-Butyl alcohol	4.40	59	39512	1.048	ppbv #	100
19) Isopropyl Alcohol	4.06	45	8692	0.095	ppbv #	93
20) Methylene Chloride	4.42	84	17848	0.274	ppbv #	77
25) Ethyl Acetate	5.79	43	39183	0.133	ppbv #	79
26) Hexane	5.79	57	55160	0.395	ppbv #	42
27) Carbon Disulfide	4.64	76	68818	0.406	ppbv #	88
30) Cyclohexane	7.26	84	12142	0.110	ppbv #	1
34) 2-Butanone	5.35	43	7602	0.040	ppbv #	52
36) Benzene	7.01	78	118001	0.414	ppbv	95
38) Trichloroethene	7.97	130	3925	0.037	ppbv #	75
39) 1,2-Dichloropropane	7.30	63	850523	7.724	ppbv #	26
44) 2,2,4-Trimethylpentane	8.01	57	97185	0.200	ppbv #	76
52) Tetrachloroethene	11.38	164	69442	0.699	ppbv	85
53) Toluene	9.96	91	719222	2.200	ppbv	99
58) Ethyl Benzene	12.88	91	75614	0.190	ppbv #	89
59) m/p-Xylene	13.16	91	76877	0.217	ppbv #	31
60) o-Xylene	13.87	91	82871	0.243	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	18648	0.049	ppbv #	79

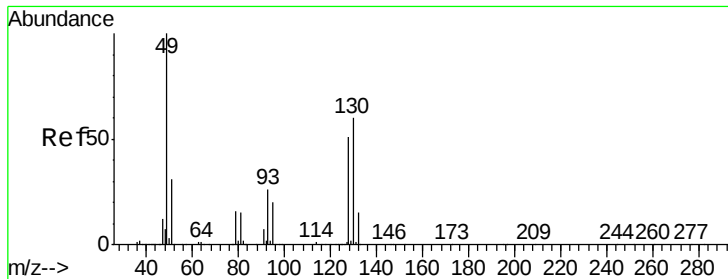
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL032707.D

Acq: 30 Oct 2018 20:40

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

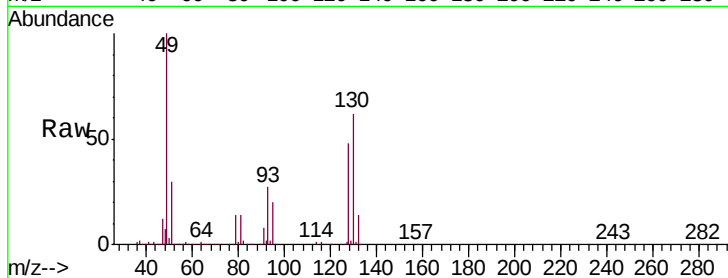
Tgt Ion: 49 Resp: 1388078

Ion Ratio Lower Upper

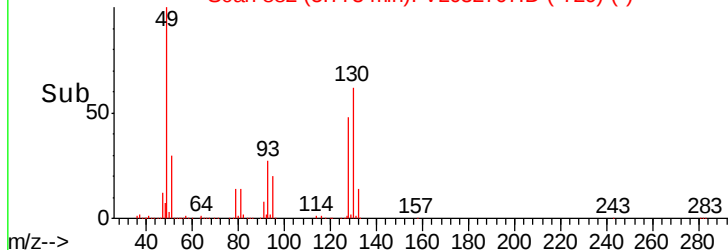
49 100

128 49.7 22.3 66.8

130 63.2 28.4 85.3



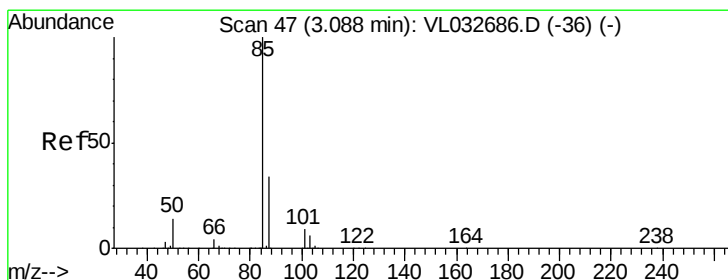
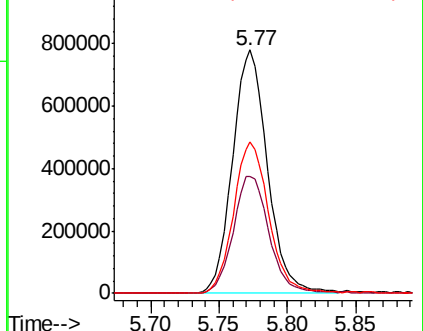
Scan 882 (5.773 min): VL032707.D (-729) (-)



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: 0.098 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032707.D

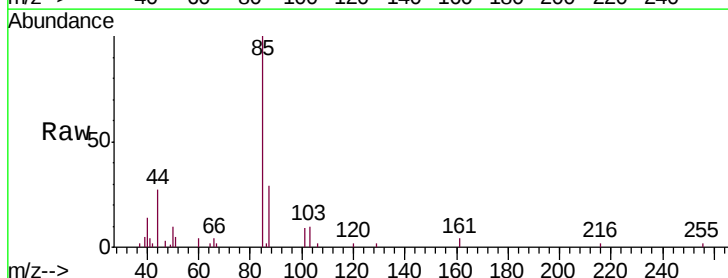
Acq: 30 Oct 2018 20:40

Tgt Ion: 85 Resp: 13789

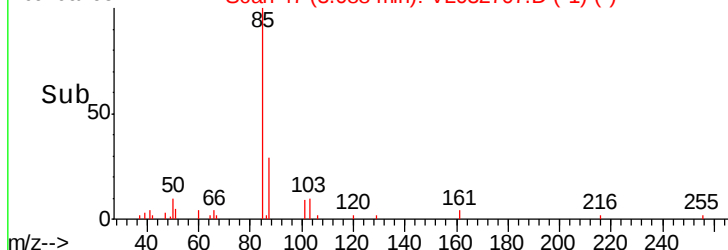
Ion Ratio Lower Upper

85 100

87 28.6 26.2 39.2

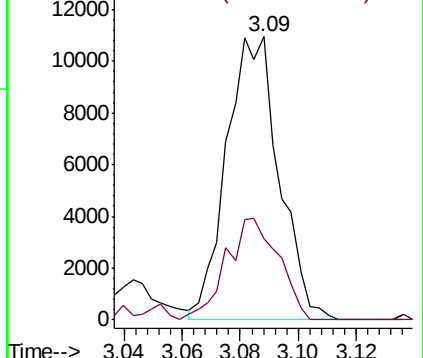


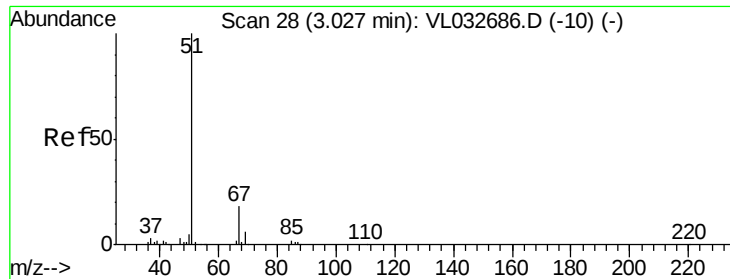
Scan 47 (3.088 min): VL032707.D (-1) (-)



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

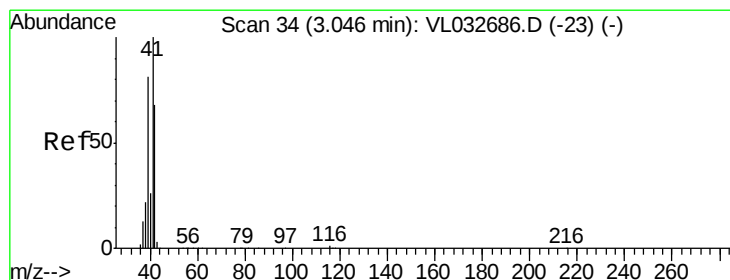
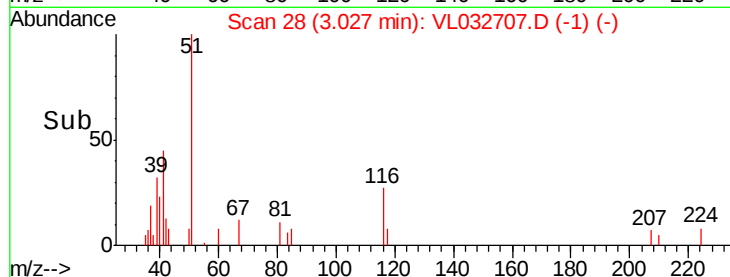
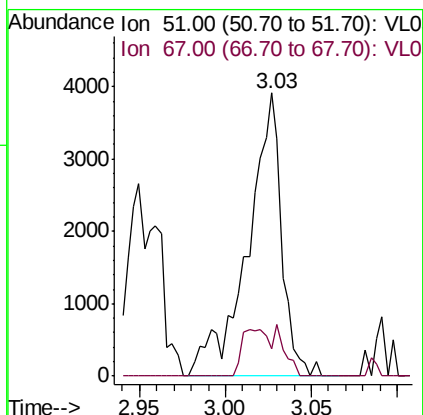
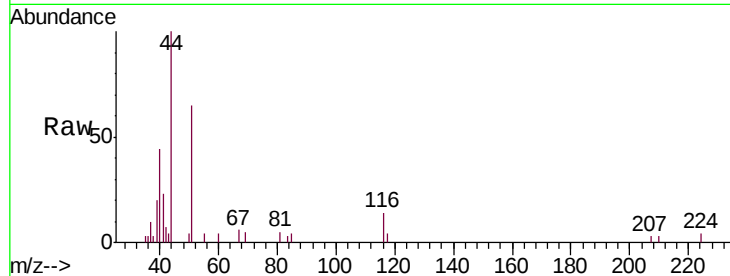




#3
 Chlorodifluoromethane
 Concen: 0.050 ppbv
 RT: 3.03 min Scan# 28
 Delta R.T. 0.00 min
 Lab File: VL032707.D
 Acq: 30 Oct 2018 20:40

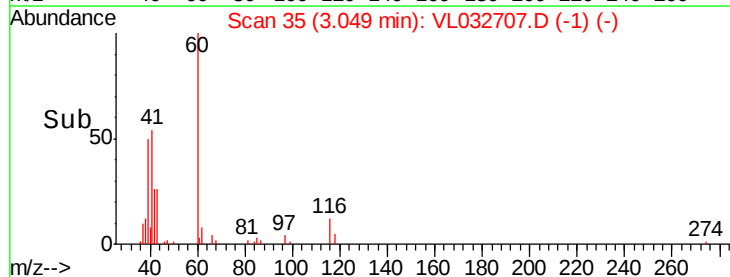
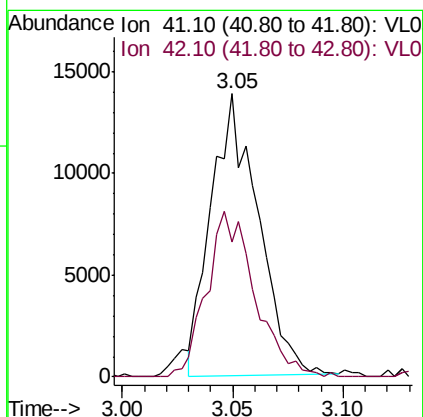
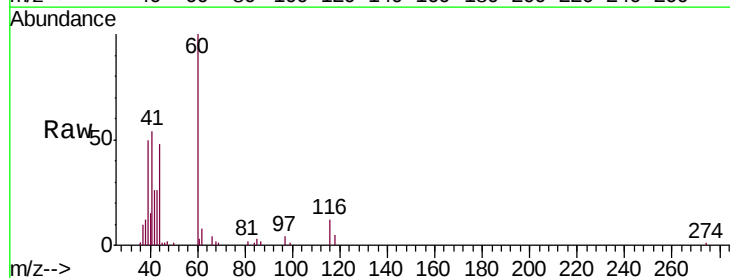
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

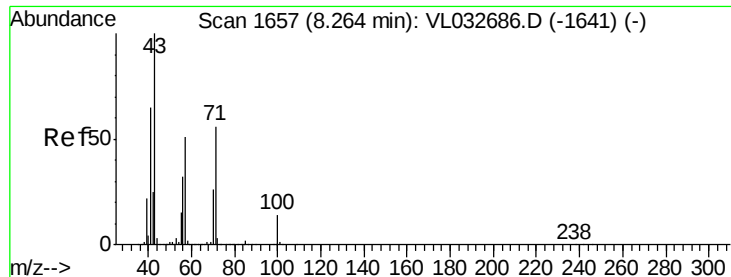
Tgt Ion: 51 Resp: 5412
 Ion Ratio Lower Upper
 51 100
 67 18.5 15.2 22.8



#9
 Propene
 Concen: 0.458 ppbv
 RT: 3.05 min Scan# 35
 Delta R.T. 0.01 min
 Lab File: VL032707.D
 Acq: 30 Oct 2018 20:40

Tgt Ion: 41 Resp: 20456
 Ion Ratio Lower Upper
 41 100
 42 60.3 55.4 83.0





#10

Heptane

Concen: 0.103 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.01 min

Lab File: VL032707.D

Acq: 30 Oct 2018 20:40

Instrument :

MSVOA_L

ClientSampled :

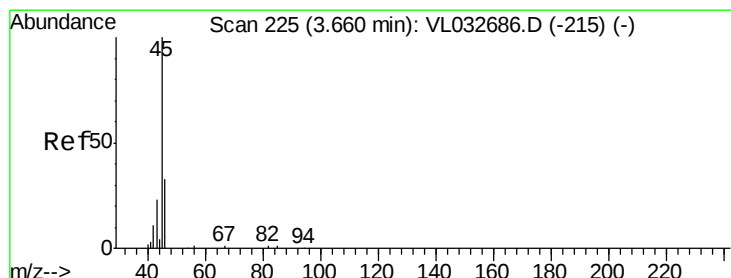
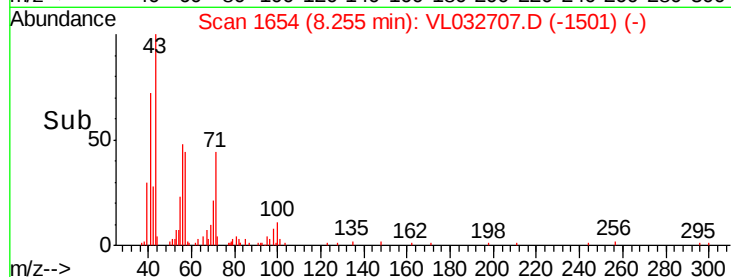
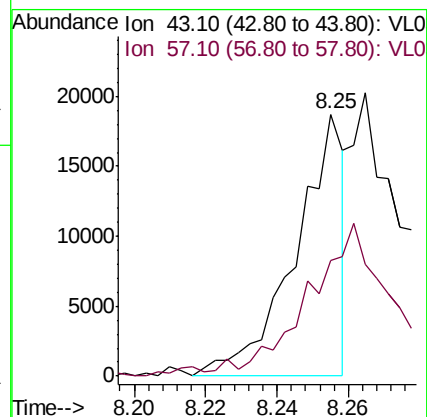
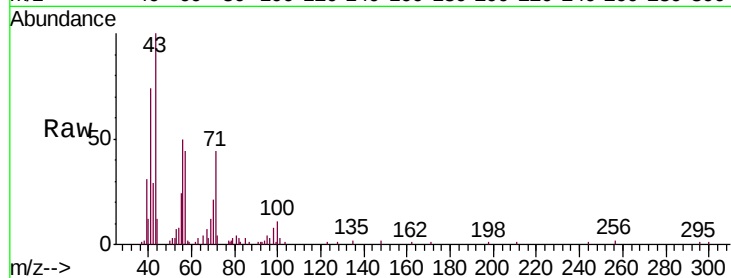
SS-1DL

Tgt Ion: 43 Resp: 17702

Ion Ratio Lower Upper

43 100

57 0.0 41.5 62.3#



#13

Ethanol

Concen: 3.824 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.01 min

Lab File: VL032707.D

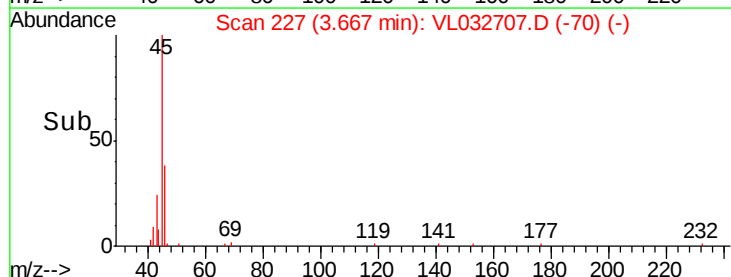
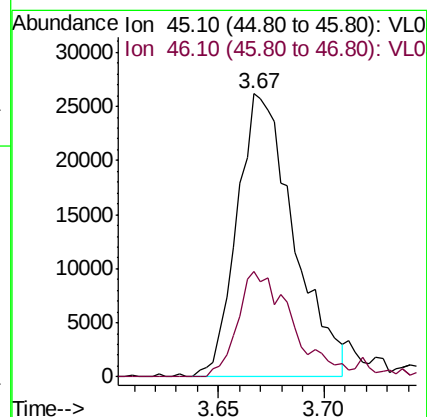
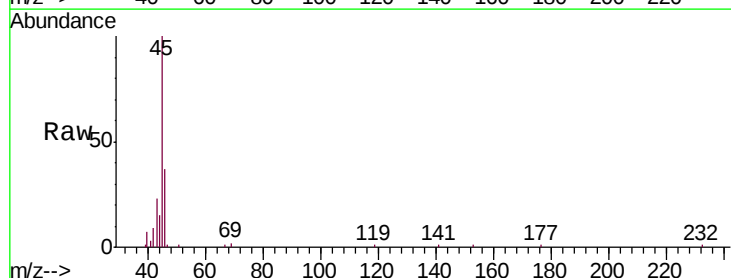
Acq: 30 Oct 2018 20:40

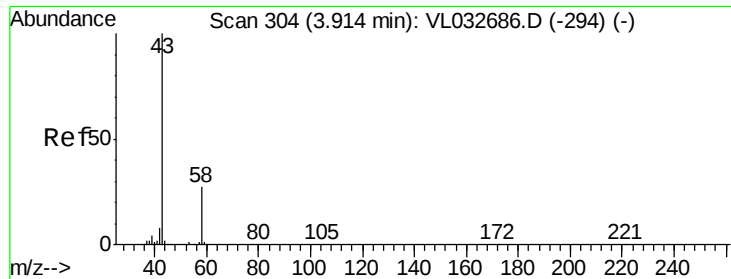
Tgt Ion: 45 Resp: 48825

Ion Ratio Lower Upper

45 100

46 37.5 15.4 61.8





#15

Acetone

Concen: 2.866 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.00 min

Lab File: VL032707.D

Acq: 30 Oct 2018 20:40

Instrument :

MSVOA_L

ClientSampleId :

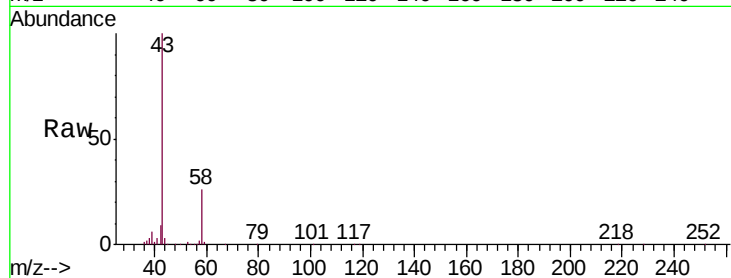
SS-1DL

Tgt Ion: 43 Resp: 367391

Ion Ratio Lower Upper

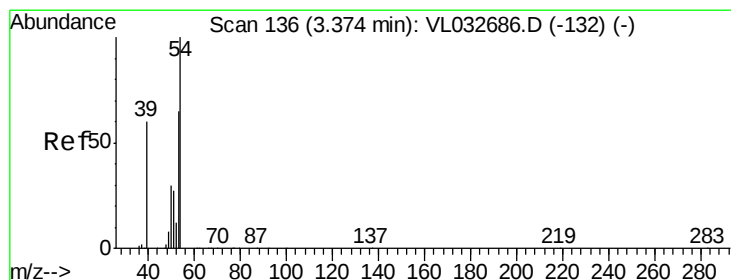
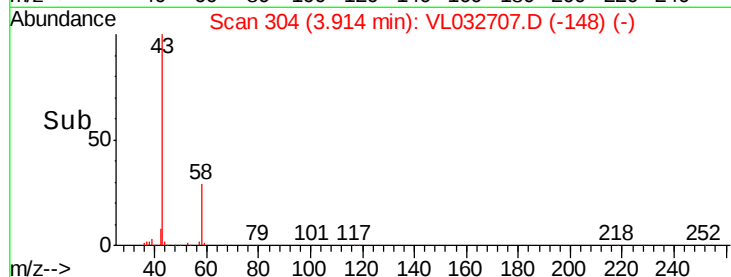
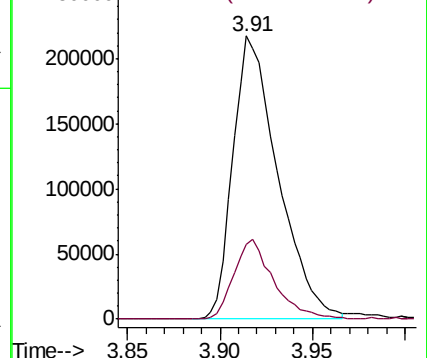
43 100

58 25.1 22.1 33.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.302 ppbv

RT: 3.35 min Scan# 130

Delta R.T. -0.02 min

Lab File: VL032707.D

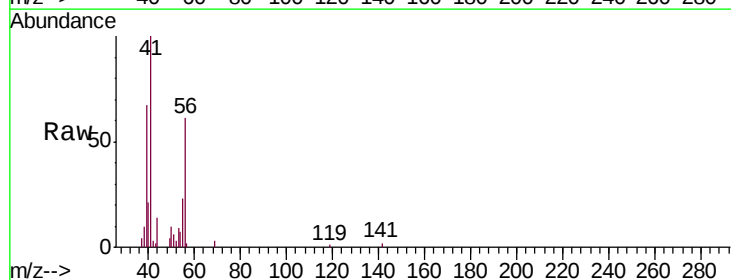
Acq: 30 Oct 2018 20:40

Tgt Ion: 39 Resp: 14263

Ion Ratio Lower Upper

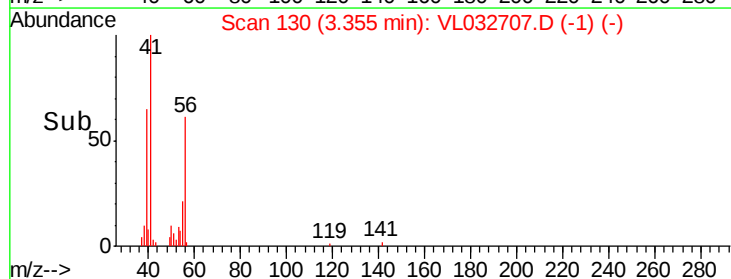
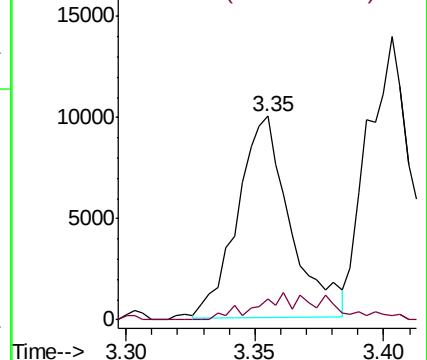
39 100

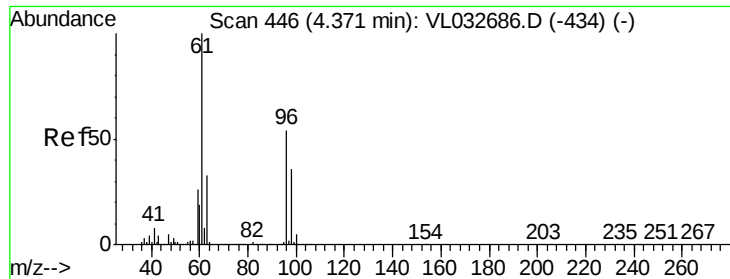
54 18.4 90.4 135.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

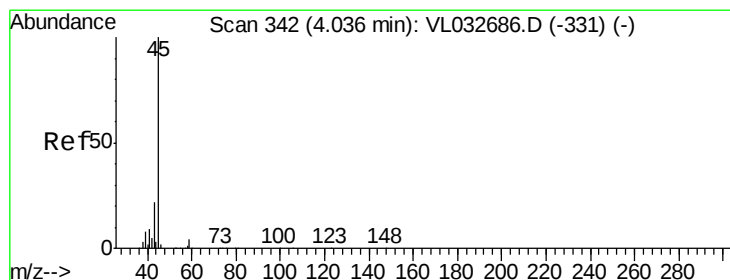
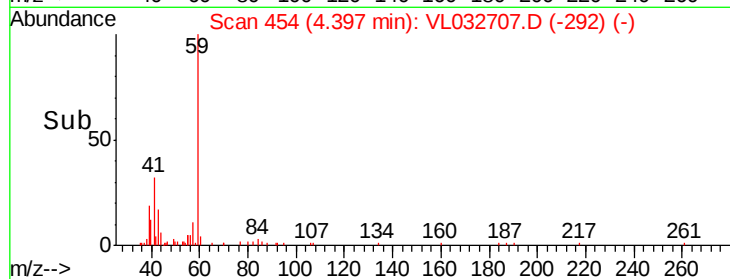
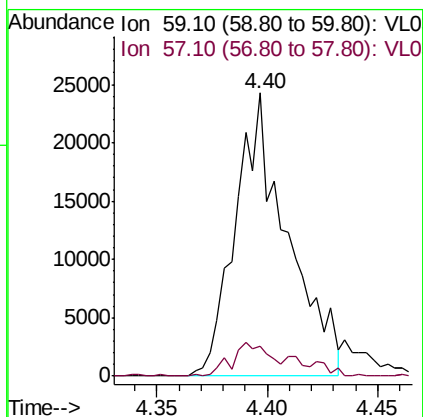
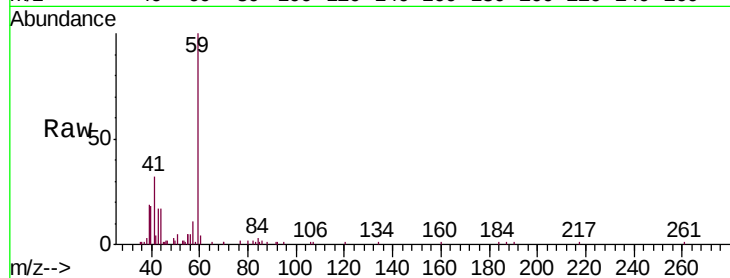




#17
 tert-Butyl alcohol
 Concen: 1.048 ppbv
 RT: 4.40 min Scan# 454
 Delta R.T. 0.02 min
 Lab File: VL032707.D
 Acq: 30 Oct 2018 20:40

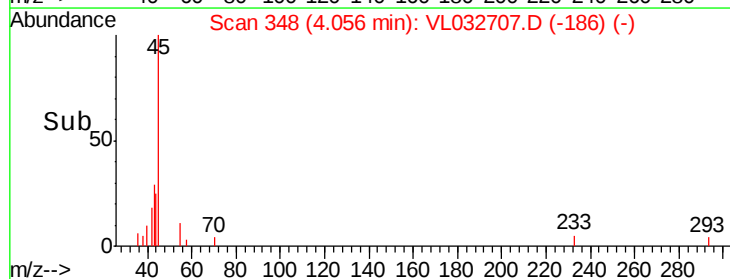
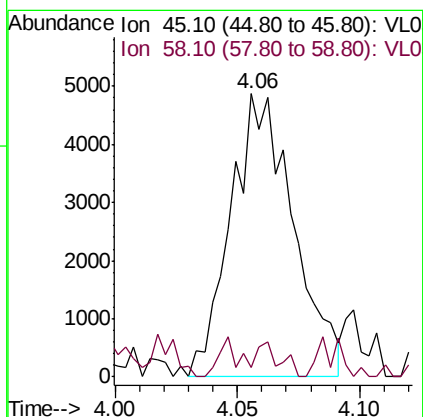
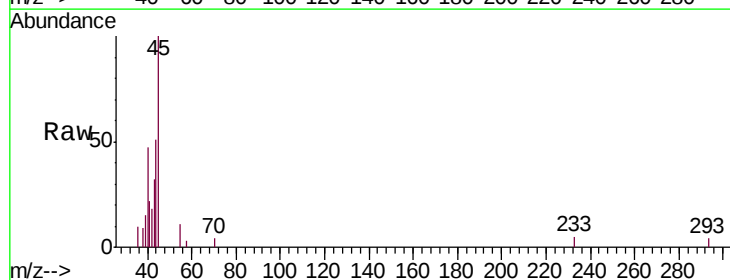
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

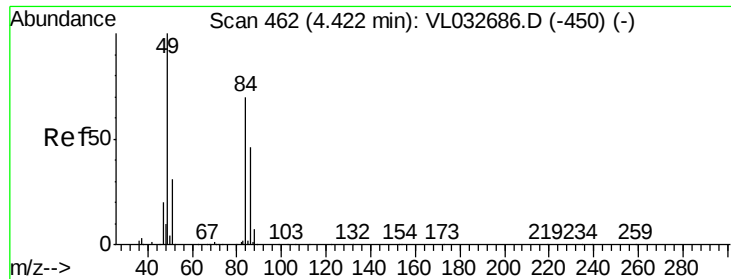
Tgt Ion: 59 Resp: 39512
 Ion Ratio Lower Upper
 59 100
 57 13.0 0.0 0.0#



#19
 Isopropyl Alcohol
 Concen: 0.095 ppbv
 RT: 4.06 min Scan# 348
 Delta R.T. 0.02 min
 Lab File: VL032707.D
 Acq: 30 Oct 2018 20:40

Tgt Ion: 45 Resp: 8692
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.0 3.0#

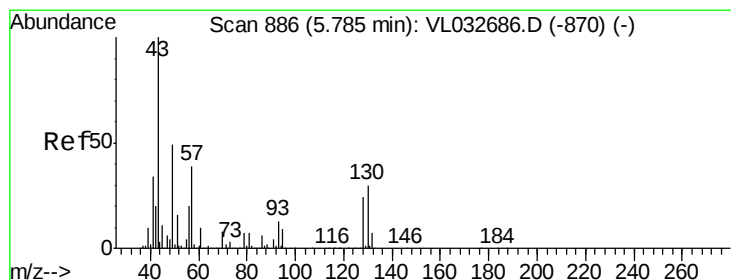
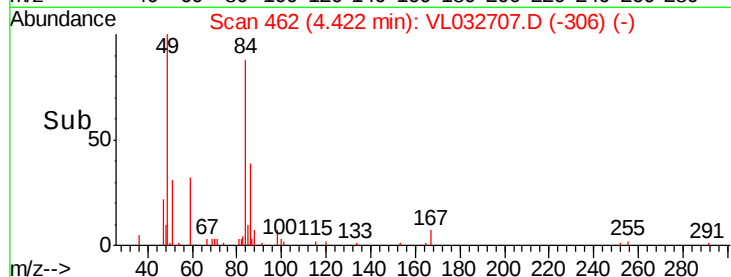
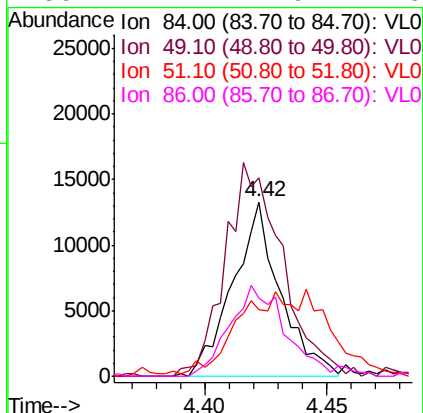
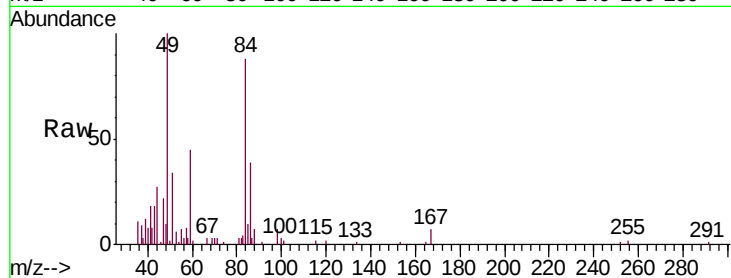




#20
Methylene Chloride
Concen: 0.274 ppbv
RT: 4.42 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL032707.D
Acq: 30 Oct 2018 20:40

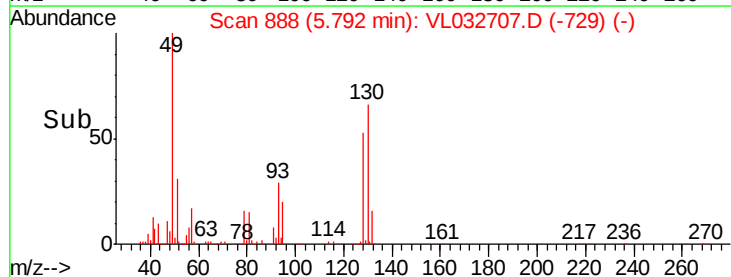
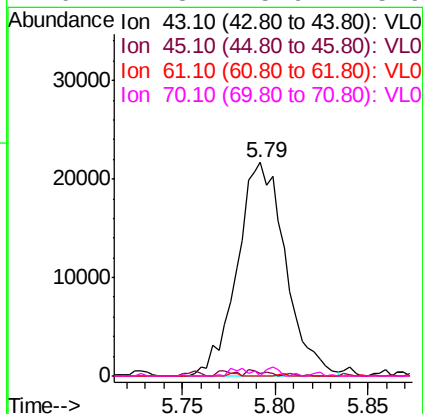
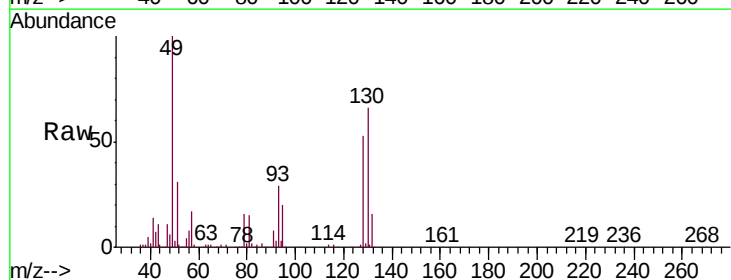
Instrument :
MSVOA_L
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SS-1DL

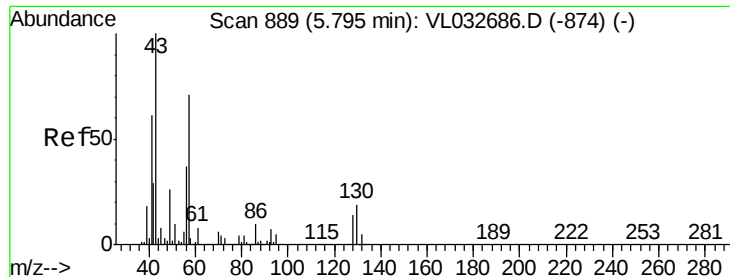
Tgt Ion: 84 Resp: 17848
Ion Ratio Lower Upper
84 100
49 108.5 113.5 170.3#
51 35.6 34.8 52.2
86 44.4 47.9 71.9#



#25
Ethyl Acetate
Concen: 0.133 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.01 min
Lab File: VL032707.D
Acq: 30 Oct 2018 20:40

Tgt Ion: 43 Resp: 39183
Ion Ratio Lower Upper
43 100
45 2.3 8.0 12.0#
61 0.2 8.0 12.0#
70 2.8 5.9 8.9#

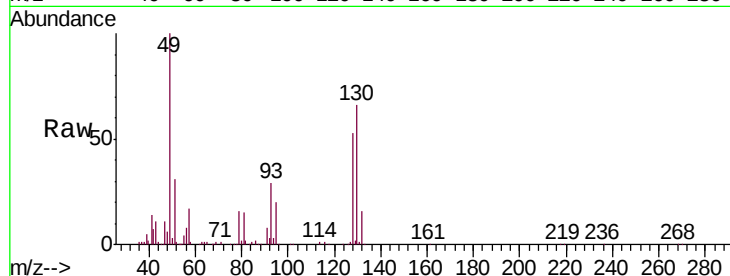




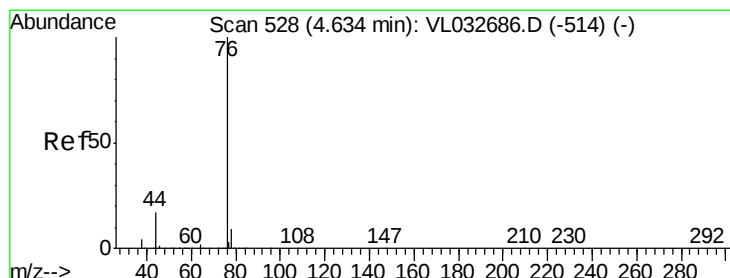
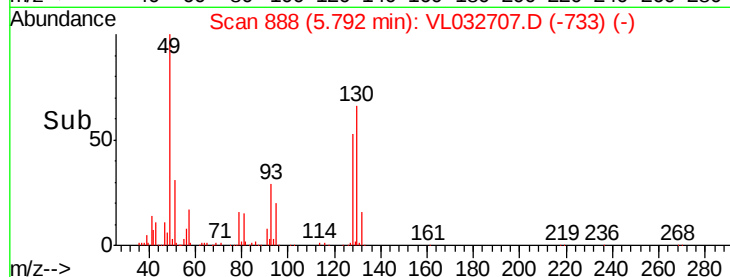
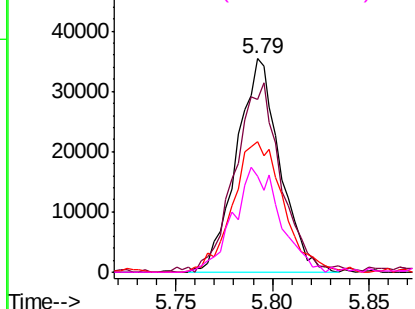
#26
Hexane
Concen: 0.395 ppbv
RT: 5.79 min Scan# 888
Delta R.T. -0.00 min
Lab File: VL032707.D
Acq: 30 Oct 2018 20:40

Instrument :
MSVOA_L
ClientSampled :
SS-1DL

Tgt Ion: 57 Resp: 55160
Ion Ratio Lower Upper
57 100
41 95.4 67.4 101.0
43 71.6 171.9 257.9#
56 53.4 42.6 63.8

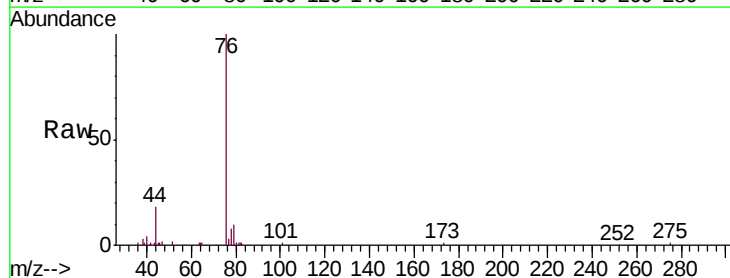


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

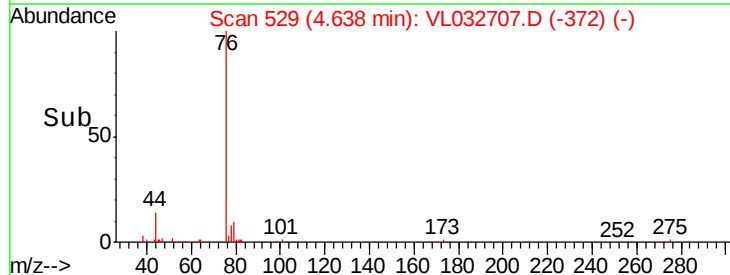
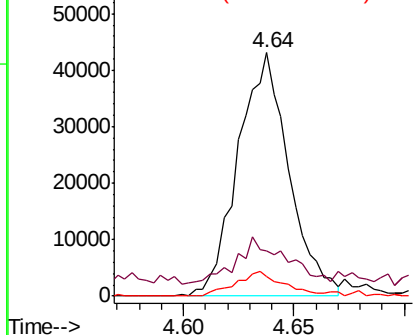


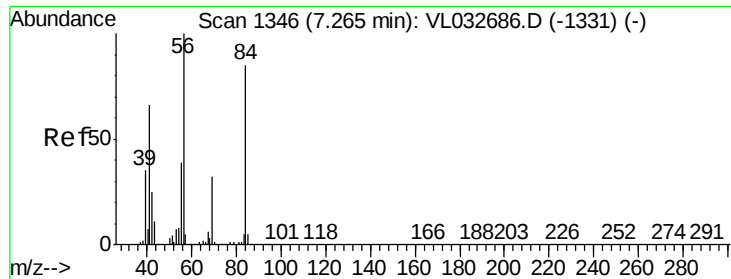
#27
Carbon Disulfide
Concen: 0.406 ppbv
RT: 4.64 min Scan# 529
Delta R.T. 0.01 min
Lab File: VL032707.D
Acq: 30 Oct 2018 20:40

Tgt Ion: 76 Resp: 68818
Ion Ratio Lower Upper
76 100
44 24.4 13.7 20.5#
78 10.5 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

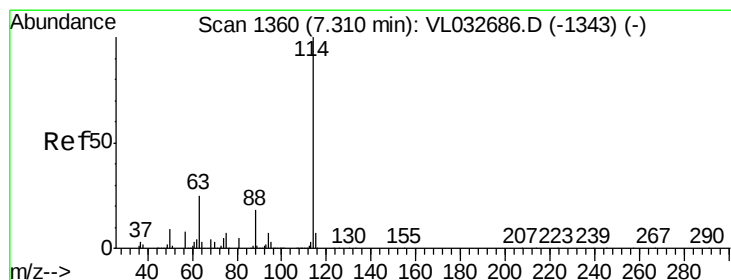
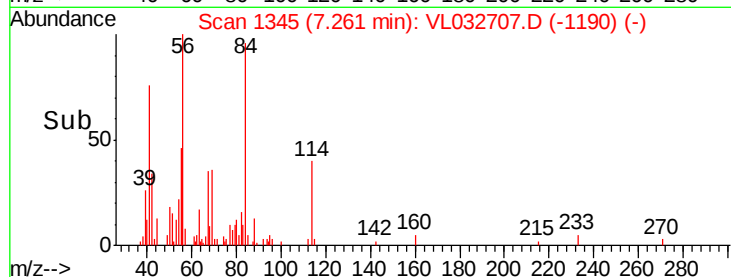
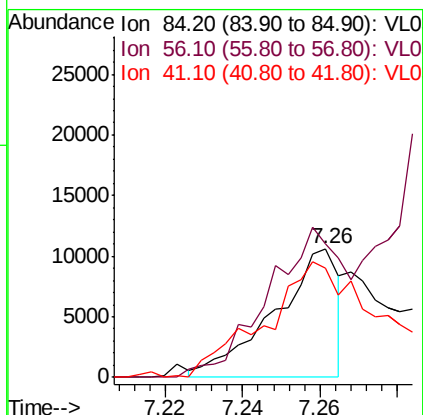
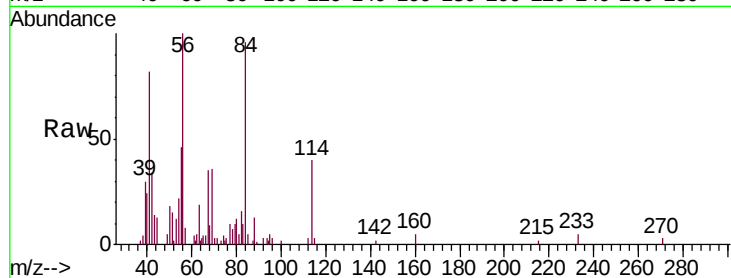




#30
Cyclohexane
Concen: 0.110 ppbv
RT: 7.26 min Scan# 1345
Delta R.T. -0.00 min
Lab File: VL032707.D
Acq: 30 Oct 2018 20:40

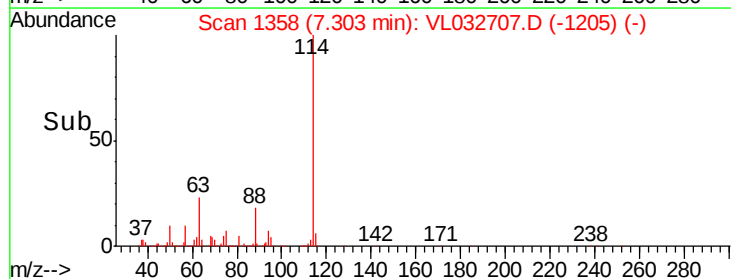
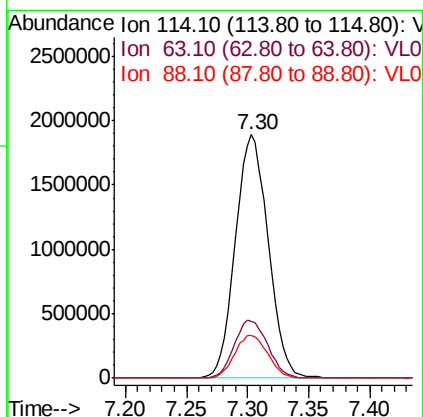
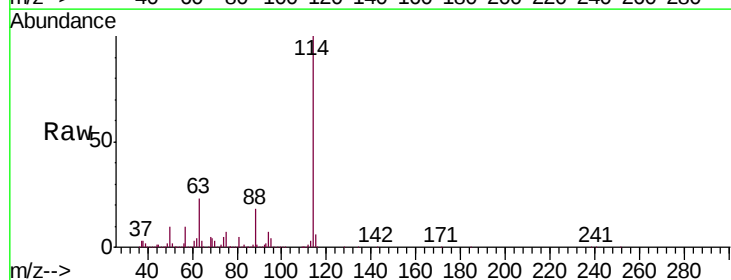
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

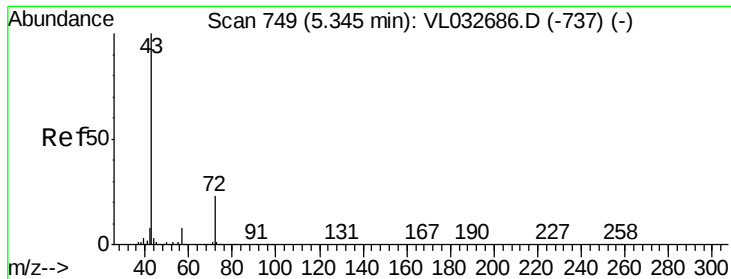
Tgt Ion: 84 Resp: 12142
Ion Ratio Lower Upper
84 100
56 0.0 108.3 162.5#
41 166.8 64.8 97.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL032707.D
Acq: 30 Oct 2018 20:40

Tgt Ion: 114 Resp: 3511484
Ion Ratio Lower Upper
114 100
63 24.5 21.7 32.5
88 17.7 14.9 22.3

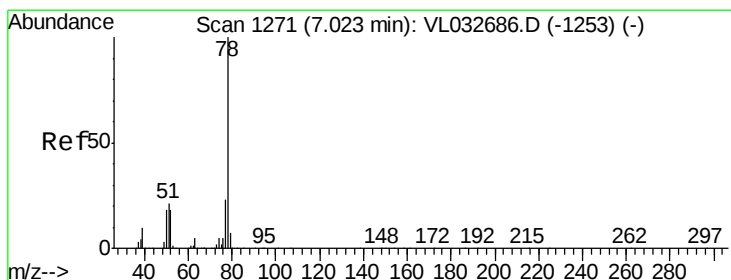
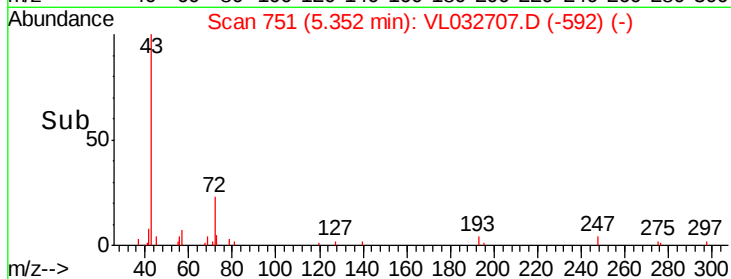
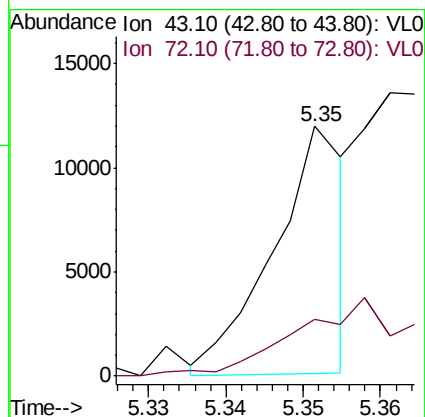
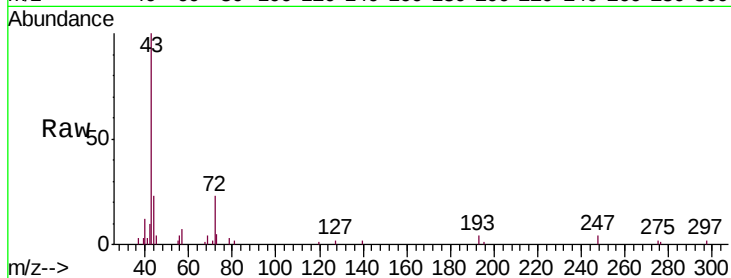




#34
2-Butanone
Concen: 0.040 ppbv
RT: 5.35 min Scan# 751
Delta R.T. 0.01 min
Lab File: VL032707.D
Acq: 30 Oct 2018 20:40

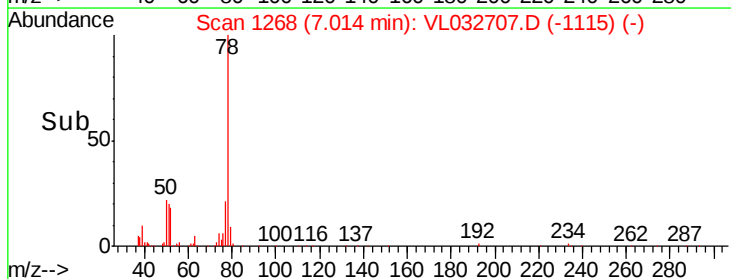
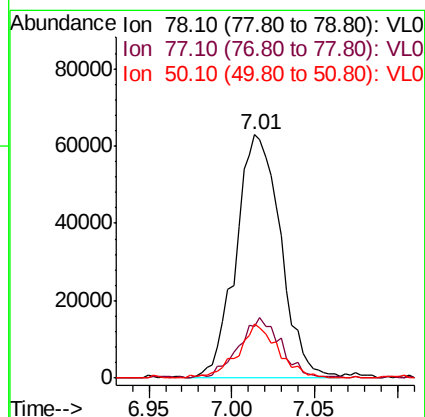
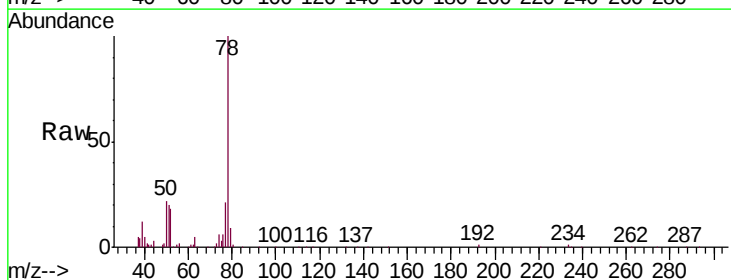
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

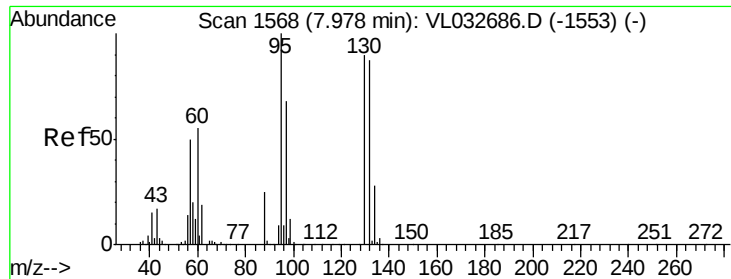
Tgt Ion: 43 Resp: 7602
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#



#36
Benzene
Concen: 0.414 ppbv
RT: 7.01 min Scan# 1268
Delta R.T. -0.01 min
Lab File: VL032707.D
Acq: 30 Oct 2018 20:40

Tgt Ion: 78 Resp: 118001
Ion Ratio Lower Upper
78 100
77 21.1 18.1 27.1
50 22.1 15.1 22.7

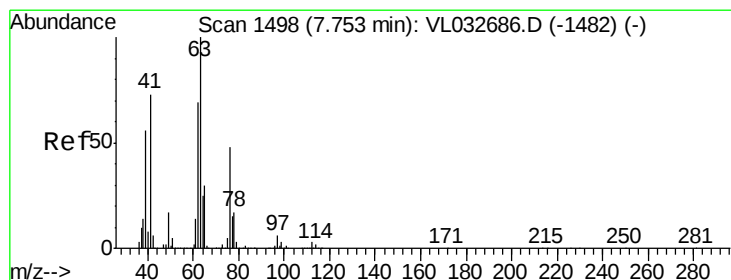
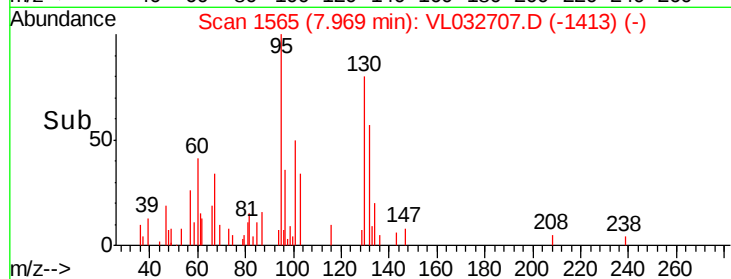
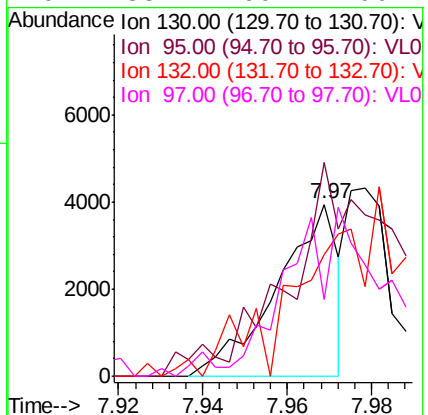
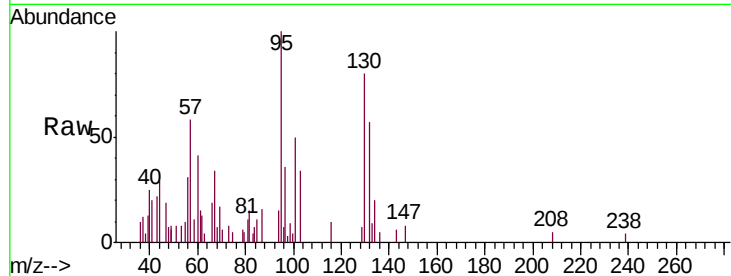




#38
 Trichloroethene
 Concen: 0.037 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. -0.01 min
 Lab File: VL032707.D
 Acq: 30 Oct 2018 20:40

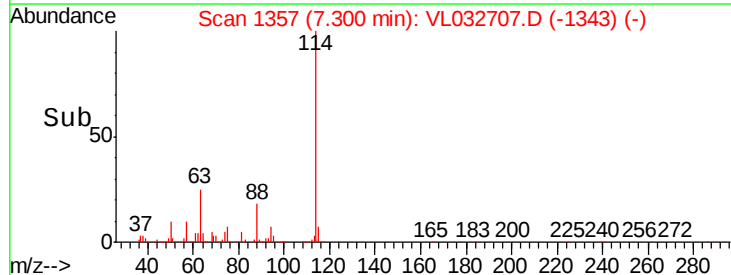
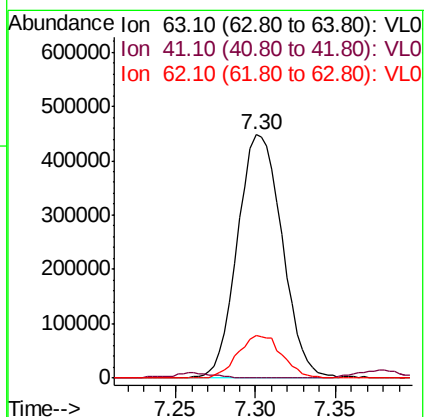
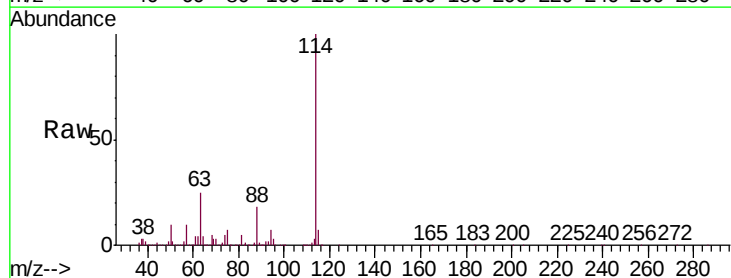
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

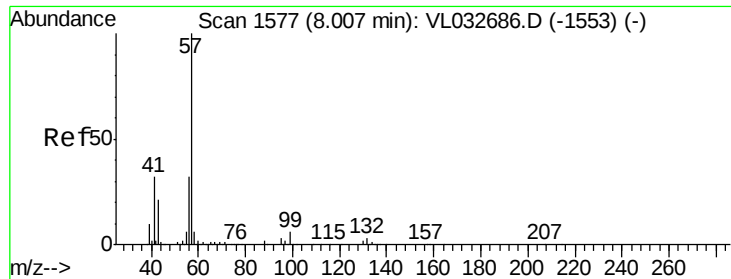
Tgt Ion:130 Resp: 3925
 Ion Ratio Lower Upper
 130 100
 95 115.0 93.4 140.0
 132 61.2 76.5 114.7#
 97 33.1 60.2 90.2#



#39
 1,2-Dichloropropane
 Concen: 7.724 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.45 min
 Lab File: VL032707.D
 Acq: 30 Oct 2018 20:40

Tgt Ion: 63 Resp: 850523
 Ion Ratio Lower Upper
 63 100
 41 0.0 56.2 84.4#
 62 17.6 54.4 81.6#

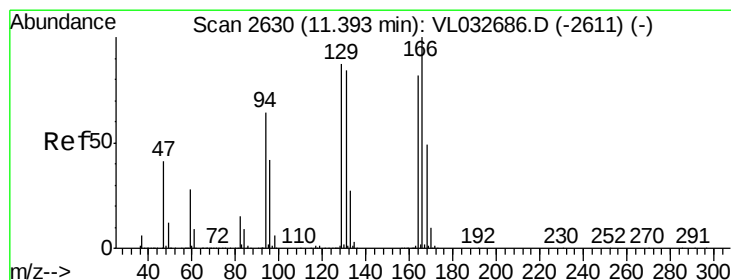
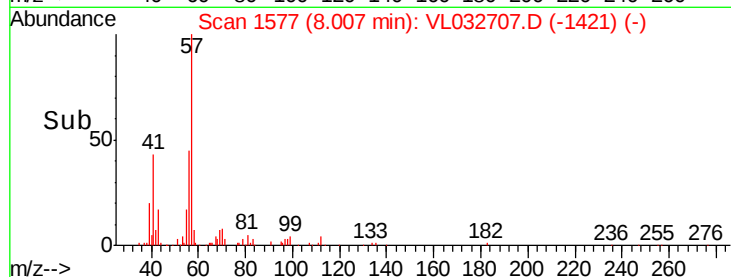
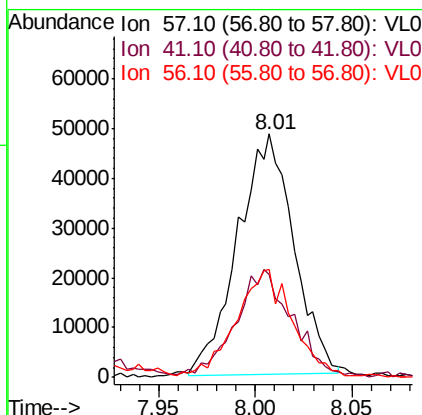
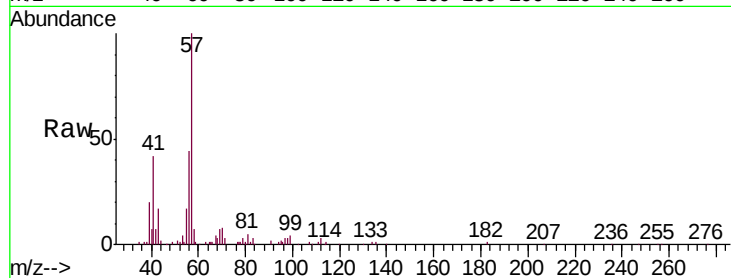




#44
 2,2,4-Trimethylpentane
 Concen: 0.200 ppbv
 RT: 8.01 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VL032707.D
 Acq: 30 Oct 2018 20:40

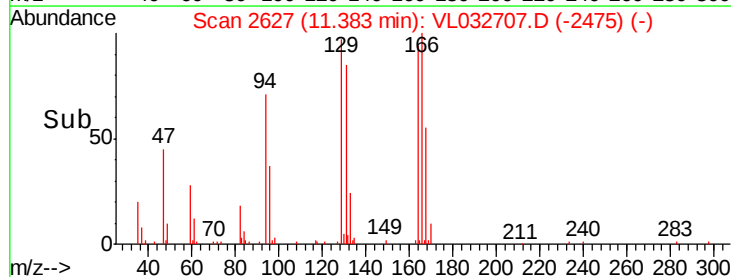
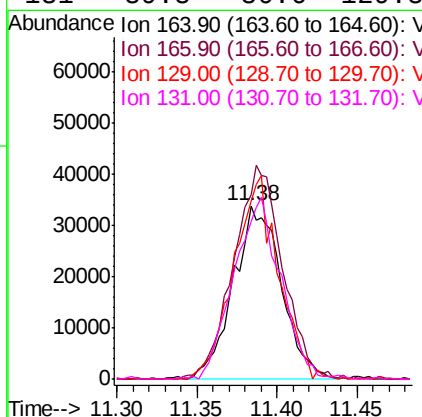
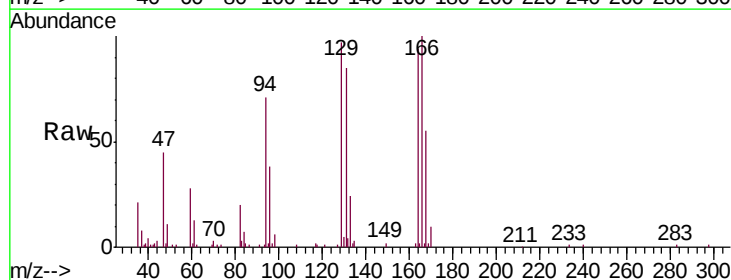
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

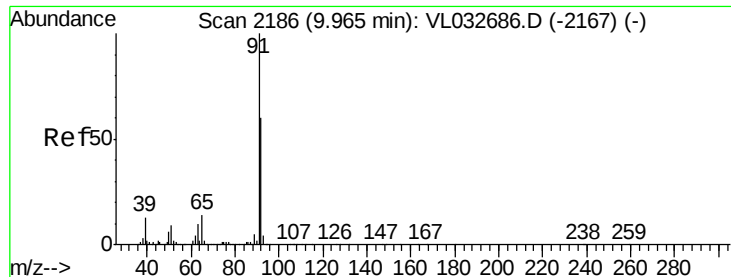
Tgt Ion: 57 Resp: 97185
 Ion Ratio Lower Upper
 57 100
 41 42.9 24.7 37.1#
 56 45.6 25.0 37.4#



#52
 Tetrachloroethene
 Concen: 0.699 ppbv
 RT: 11.38 min Scan# 2627
 Delta R.T. -0.01 min
 Lab File: VL032707.D
 Acq: 30 Oct 2018 20:40

Tgt Ion: 164 Resp: 69442
 Ion Ratio Lower Upper
 164 100
 166 105.2 100.5 150.7
 129 103.0 90.0 135.0
 131 89.8 86.6 129.8





#53

Toluene

Concen: 2.200 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032707.D

Acq: 30 Oct 2018 20:40

Instrument :

MSVOA_L

ClientSampleId :

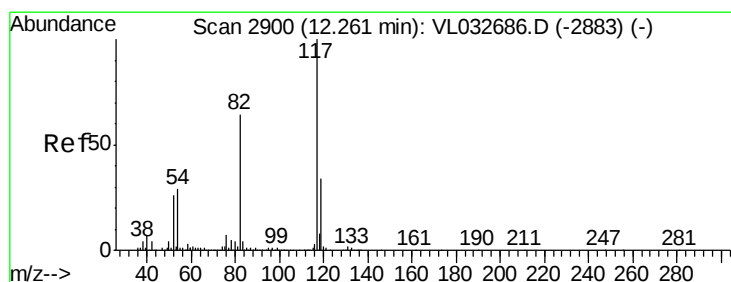
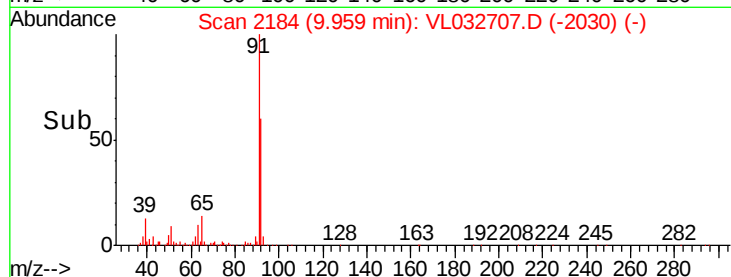
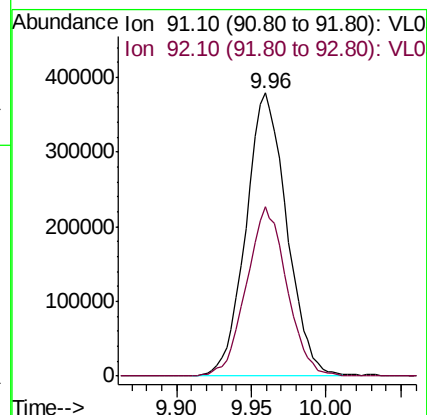
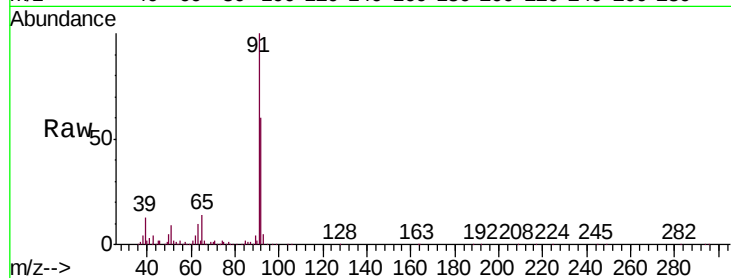
SS-1DL

Tgt Ion: 91 Resp: 719222

Ion Ratio Lower Upper

91 100

92 59.4 48.4 72.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL032707.D

Acq: 30 Oct 2018 20:40

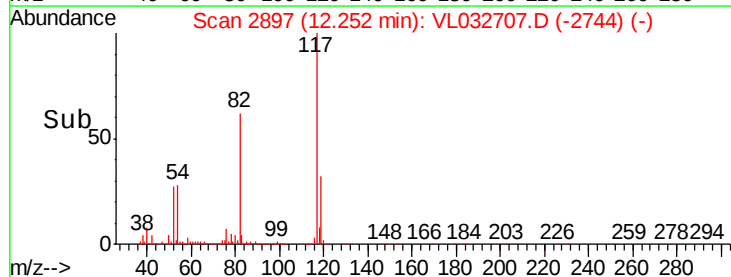
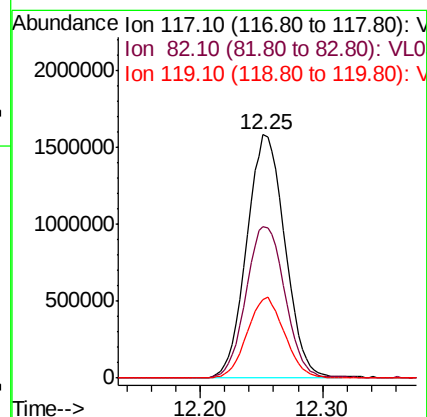
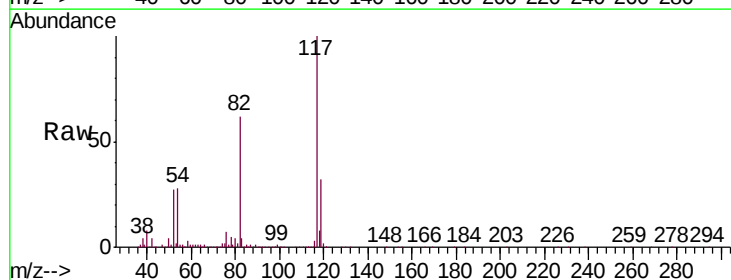
Tgt Ion: 117 Resp: 3420787

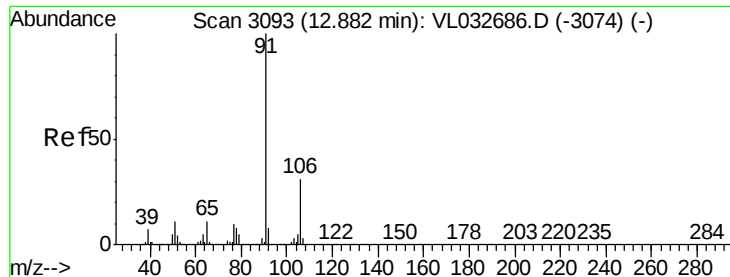
Ion Ratio Lower Upper

117 100

82 64.5 52.7 79.1

119 32.5 26.7 40.1





#58

Ethyl Benzene

Concen: 0.190 ppbv

RT: 12.88 min Scan# 3092

Delta R.T. -0.00 min

Lab File: VL032707.D

Acq: 30 Oct 2018 20:40

Instrument :

MSVOA_L

ClientSampleId :

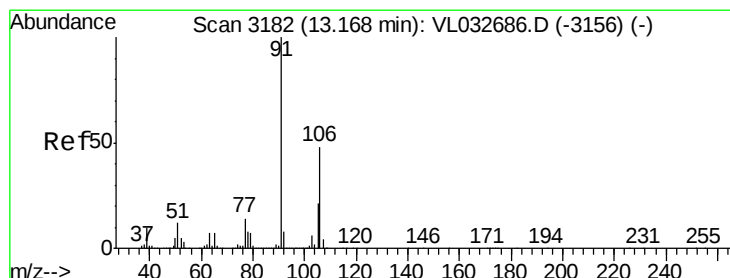
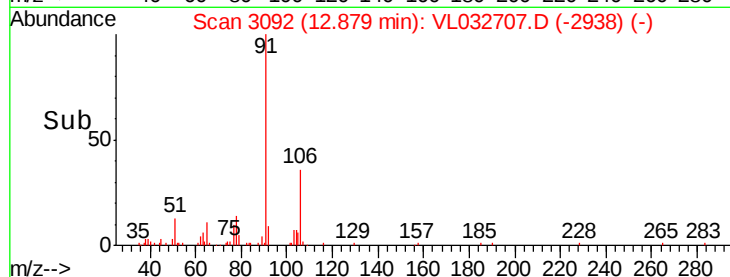
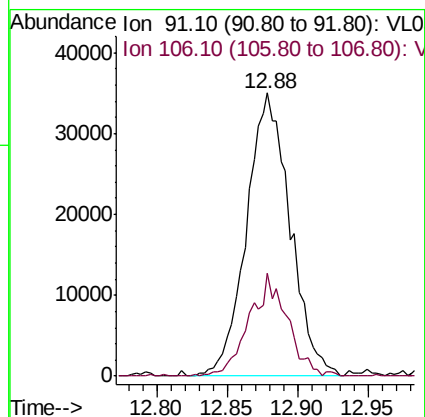
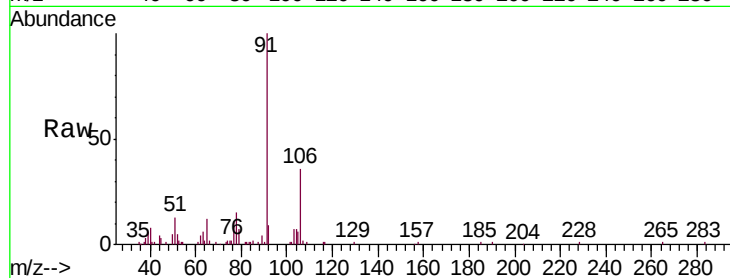
SS-1DL

Tgt Ion: 91 Resp: 75614

Ion Ratio Lower Upper

91 100

106 36.2 24.2 36.2#



#59

m/p-Xylene

Concen: 0.217 ppbv

RT: 13.16 min Scan# 3180

Delta R.T. -0.01 min

Lab File: VL032707.D

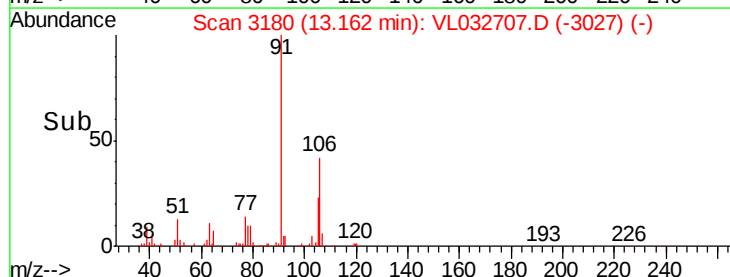
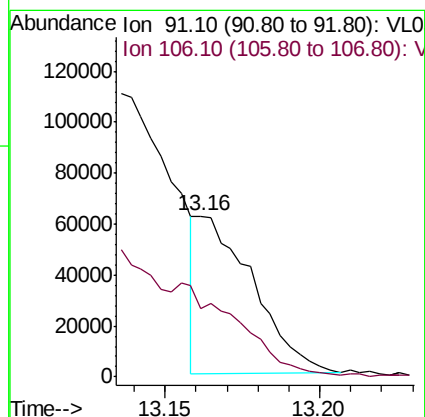
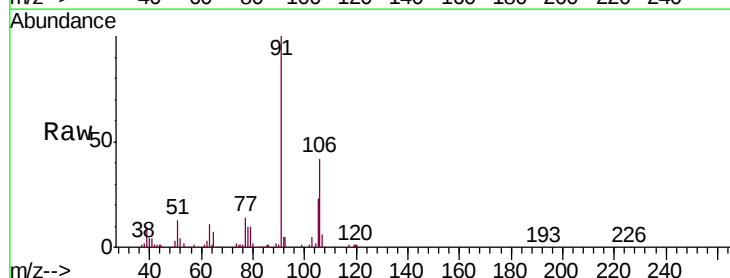
Acq: 30 Oct 2018 20:40

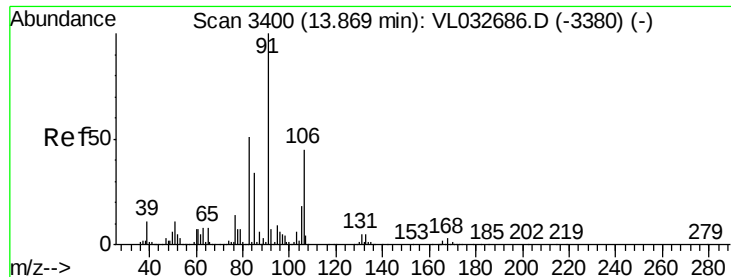
Tgt Ion: 91 Resp: 76877

Ion Ratio Lower Upper

91 100

106 0.0 35.9 53.9#

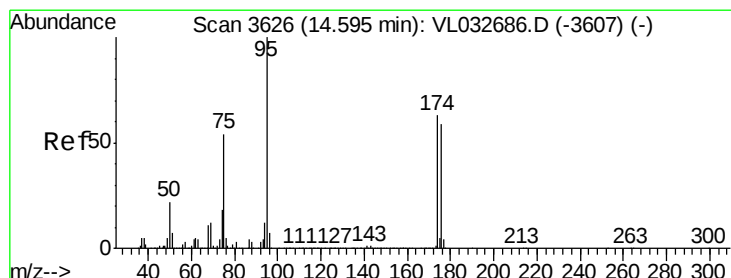
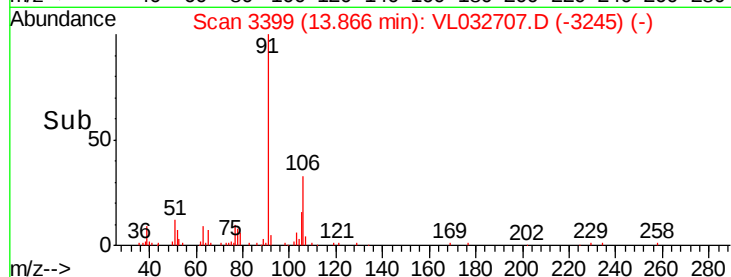
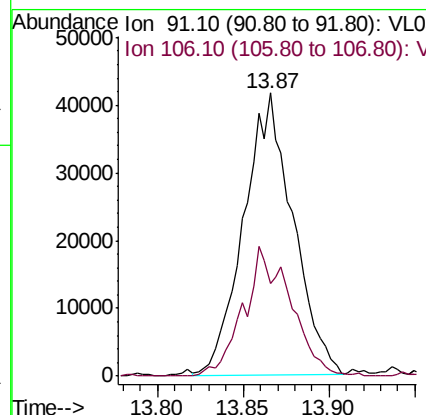
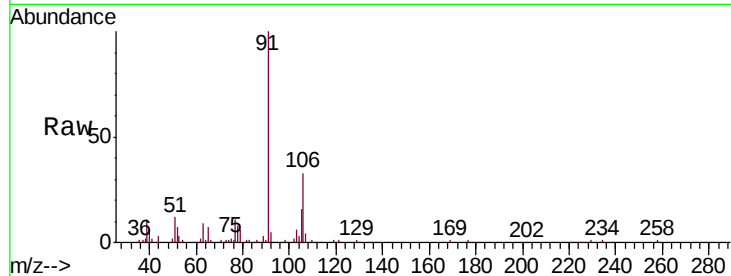




#60
o-Xylene
Concen: 0.243 ppbv
RT: 13.87 min Scan# 3399
Delta R.T. -0.00 min
Lab File: VL032707.D
Acq: 30 Oct 2018 20:40

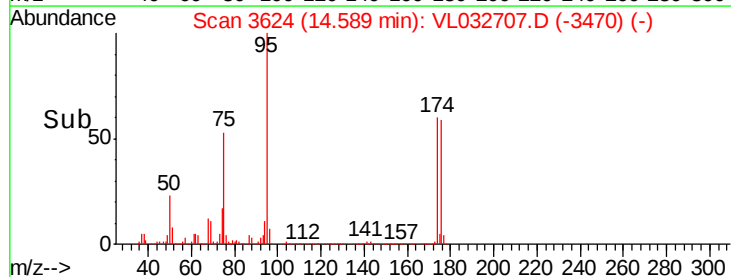
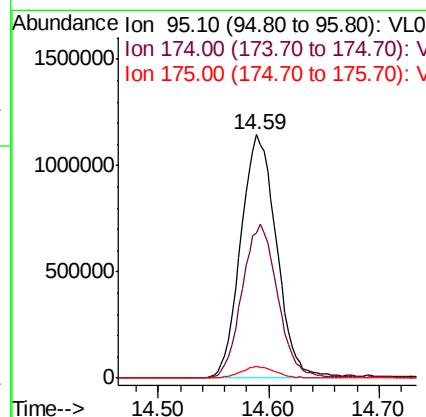
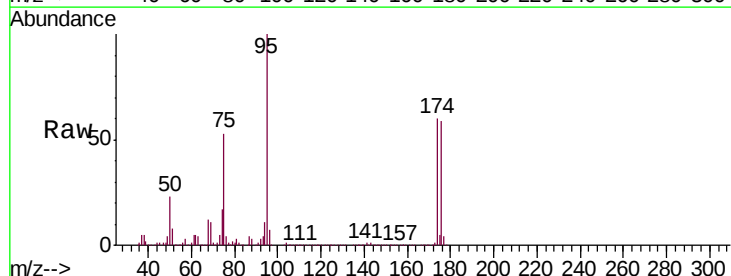
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

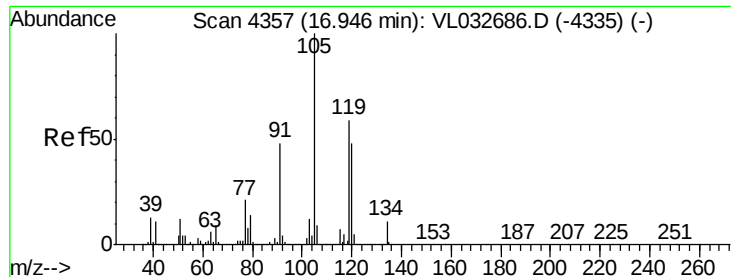
Tgt Ion: 91 Resp: 82871
Ion Ratio Lower Upper
91 100
106 44.0 22.1 66.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.123 ppbv
RT: 14.59 min Scan# 3624
Delta R.T. -0.00 min
Lab File: VL032707.D
Acq: 30 Oct 2018 20:40

Tgt Ion: 95 Resp: 2578336
Ion Ratio Lower Upper
95 100
174 64.1 46.0 69.0
175 4.7 3.4 5.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.049 ppbv
 RT: 16.94 min Scan# 4356
 Delta R.T. -0.00 min
 Lab File: VL032707.D
 Acq: 30 Oct 2018 20:40

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Tgt Ion:	105	Resp:	18648
Ion	Ratio	Lower	Upper
105	100		
120	29.0	35.8	53.8#
91	30.9	33.2	49.8#
77	9.0	16.2	24.4#

