

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070218\
 Data File : VL032199.D
 Acq On : 3 Jul 2018 2:25
 Operator : SY/AP
 Sample : J3735-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2

Quant Time: Jul 03 05:07:28 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	1270293	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3482193	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3112306	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.68	95	2377312	9.99	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.13	85	30903	0.185	ppbv	92
3) Chlorodifluoromethane	3.07	51	29403	0.189	ppbv	98
4) Chloromethane	3.23	50	24933	0.301	ppbv	95
7) Chloroethane	3.66	64	1581	0.053	ppbv	92
9) Propene	3.30	41	3101108	42.868	ppbv	94
10) Heptane	8.34	43	2405350	11.405	ppbv	99
11) Trichlorofluoromethane	4.08	101	447352	2.472	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.63	101	7275	0.060	ppbv	99
13) Ethanol	3.72	45	179227	8.173	ppbv	96
15) Acetone	3.96	43	1553644	10.460	ppbv #	76
16) 1,3-Butadiene	3.40	39	148114	2.090	ppbv #	2
17) tert-Butyl alcohol	4.43	59	237898	2.515	ppbv #	73
19) Isopropyl Alcohol	4.13	45	4604	0.037	ppbv #	38
20) Methylene Chloride	4.49	84	23183	0.427	ppbv #	91
21) Allyl Chloride	4.26	41	6773110	66.777	ppbv #	54
23) Vinyl Acetate	5.22	43	589838	2.190	ppbv #	1
25) Ethyl Acetate	5.87	43	3641163	11.848	ppbv #	77
26) Hexane	5.87	57	5146455	36.367	ppbv #	45
27) Carbon Disulfide	4.70	76	167872	1.193	ppbv	94
29) Chloroform	5.93	83	544185	2.642	ppbv	98
30) Cyclohexane	7.34	84	115047	0.862	ppbv #	52
32) 1,1,1-Trichloroethane	6.71	97	267619	1.239	ppbv	97
34) 2-Butanone	5.41	43	532984	2.411	ppbv	100
35) Carbon Tetrachloride	7.24	117	8012	0.034	ppbv	94
36) Benzene	7.10	78	523387	1.553	ppbv	94
38) Trichloroethene	8.05	130	18753	0.142	ppbv #	76
39) 1,2-Dichloropropane	7.38	63	935859	7.041	ppbv #	26
41) Tetrahydrofuran	6.25	42	102134	0.771	ppbv	95
42) Bromodichloromethane	8.01	83	11452	0.044	ppbv #	48
44) 2,2,4-Trimethylpentane	8.09	57	205833	0.349	ppbv #	41
50) 4-Methyl-2-Pentanone	8.99	43	53459	0.148	ppbv	97
51) 2-Hexanone	10.34	43	357665	1.192	ppbv #	46
52) Tetrachloroethene	11.47	164	609681	4.975	ppbv	98
53) Toluene	10.04	91	4261328	10.461	ppbv	99
58) Ethyl Benzene	12.96	91	1350278	2.692	ppbv	95
59) m/p-Xylene	13.22	91	3787606	9.421	ppbv	97
60) o-Xylene	13.95	91	1686757	4.206	ppbv	95
61) Styrene	13.78	104	38137	0.116	ppbv #	76
62) Isopropylbenzene	14.93	105	182515	0.296	ppbv	99
64) n-propylbenzene	15.82	120	57924	0.363	ppbv #	1
65) tert-Butylbenzene	17.02	119	125880	0.232	ppbv #	21

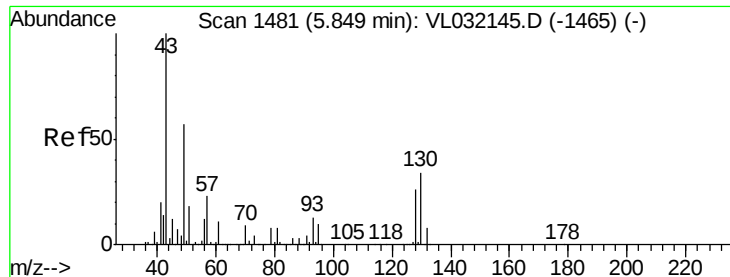
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070218\
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Quant Time: Jul 03 05:07:28 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Benzyl Chloride	17.48	91	32986	0.099	ppbv #	77
67) sec-Butylbenzene	17.56	105	84575	0.107	ppbv	98
69) p-Isopropyltoluene	17.91	119	158275	0.249	ppbv #	53
70) n-Butylbenzene	18.79	91	35374	0.053	ppbv #	33
71) 2-Chlorotoluene	15.82	91	544032	1.146	ppbv #	44
72) 4-Ethyltoluene	16.11	105	563754	1.089	ppbv	97
73) 1,3,5-Trimethylbenzene	16.26	105	906043	1.857	ppbv	94
74) 1,2,4-Trimethylbenzene	17.03	105	2333442	4.739	ppbv #	74
79) Naphthalene	22.53	128	213037	0.476	ppbv	97
80) Naphthalene,2-methyl-	25.19	142	128505	0.796	ppbv #	87

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

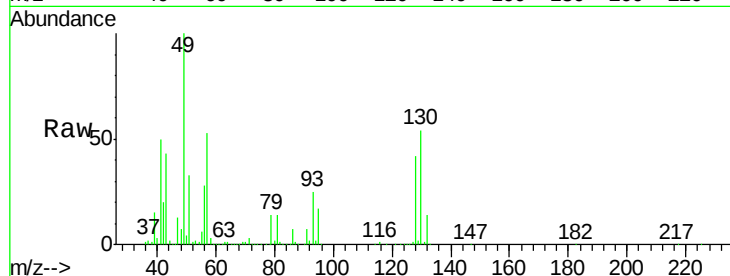
Tgt Ion: 49 Resp: 1270293

Ion Ratio Lower Upper

49 100

128 43.7 23.4 70.0

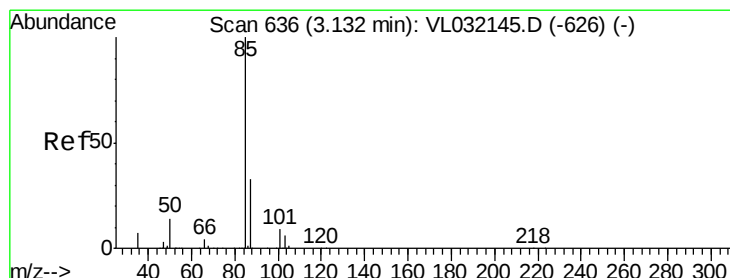
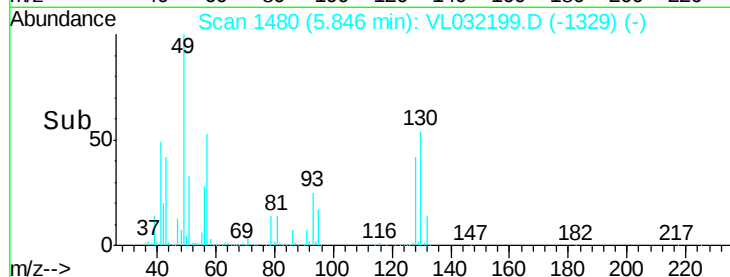
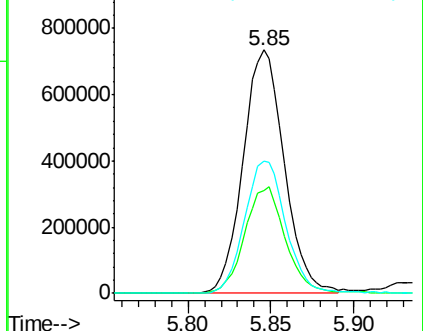
130 55.3 30.3 90.9



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: 0.185 ppbv

RT: 3.13 min Scan# 637

Delta R.T. -0.01 min

Lab File: VL032199.D

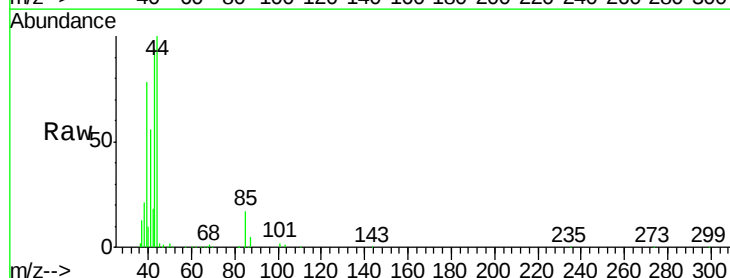
Acq: 3 Jul 2018 2:25

Tgt Ion: 85 Resp: 30903

Ion Ratio Lower Upper

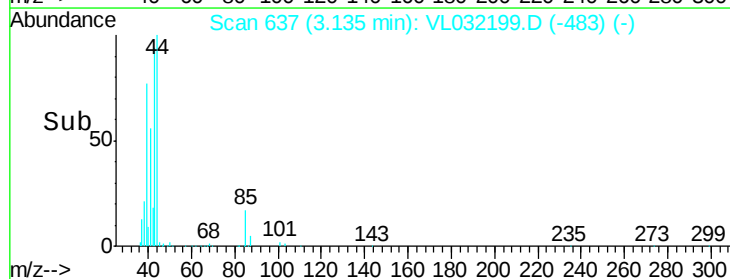
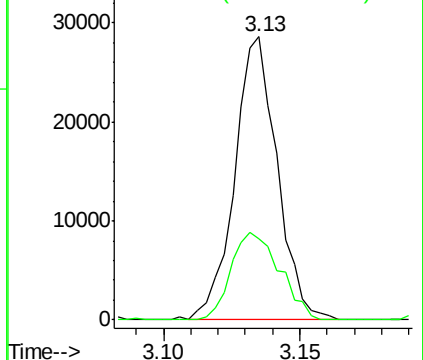
85 100

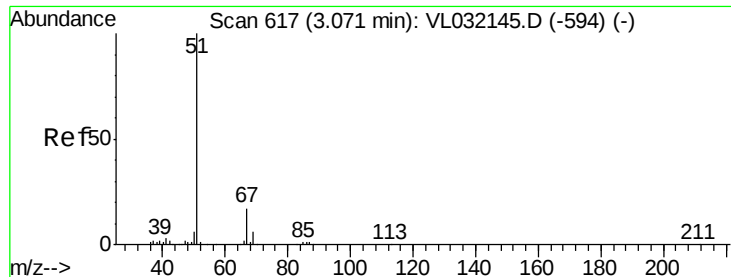
87 28.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.189 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

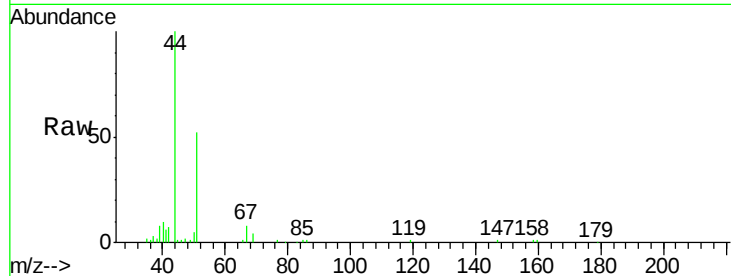
SS-2

Tgt Ion: 51 Resp: 29403

Ion Ratio Lower Upper

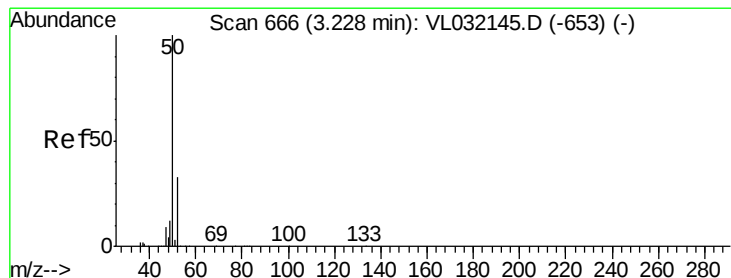
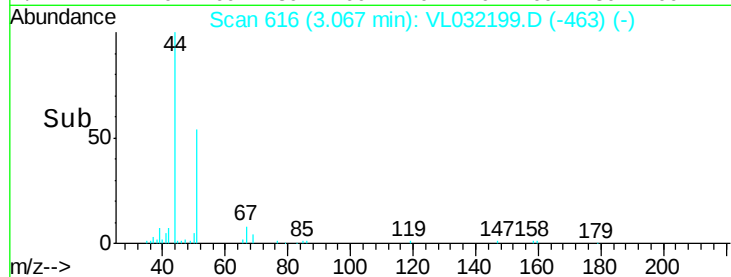
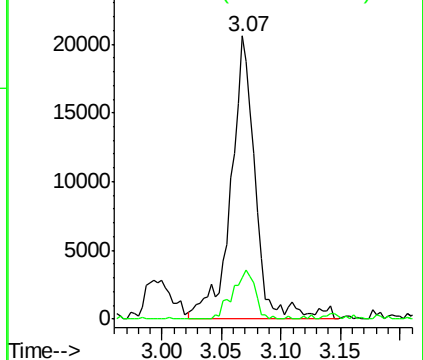
51 100

67 15.8 13.2 19.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.301 ppbv

RT: 3.23 min Scan# 665

Delta R.T. -0.01 min

Lab File: VL032199.D

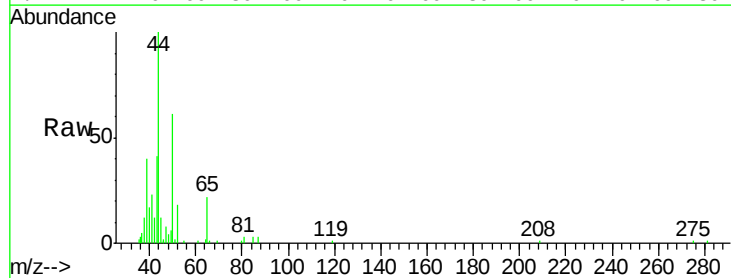
Acq: 3 Jul 2018 2:25

Tgt Ion: 50 Resp: 24933

Ion Ratio Lower Upper

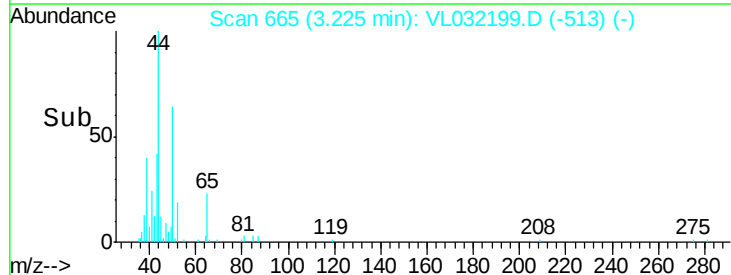
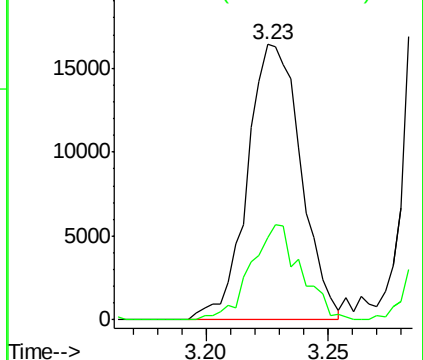
50 100

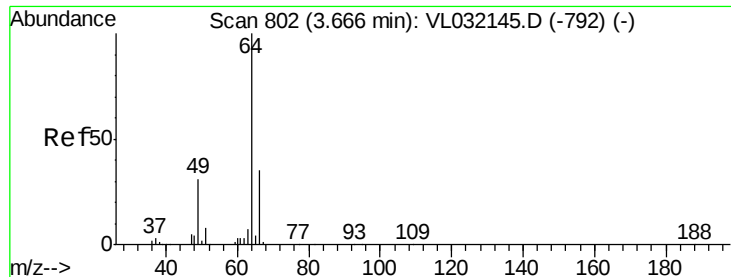
52 30.0 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.053 ppbv

RT: 3.66 min Scan# 800

Delta R.T. -0.01 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

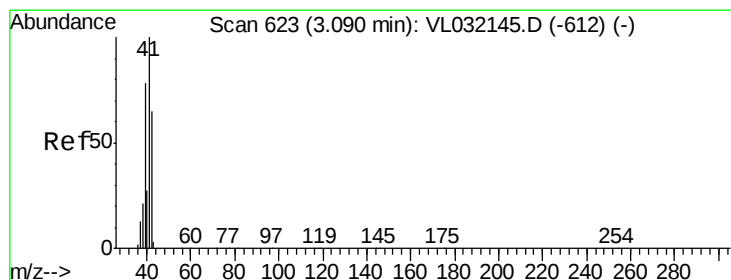
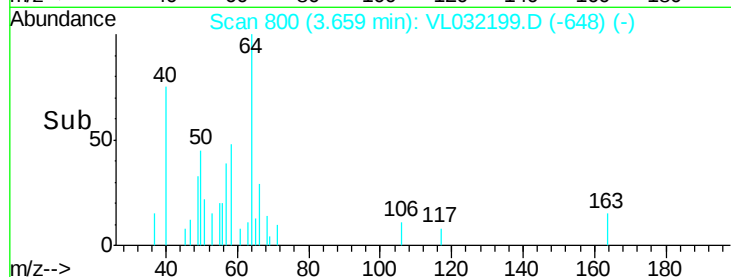
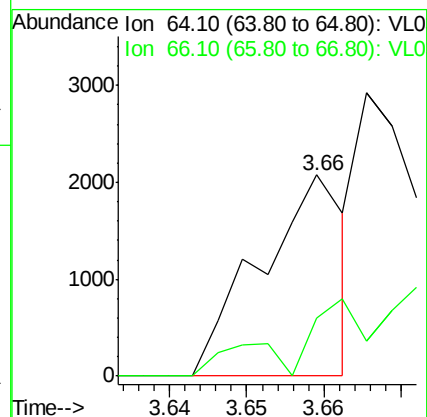
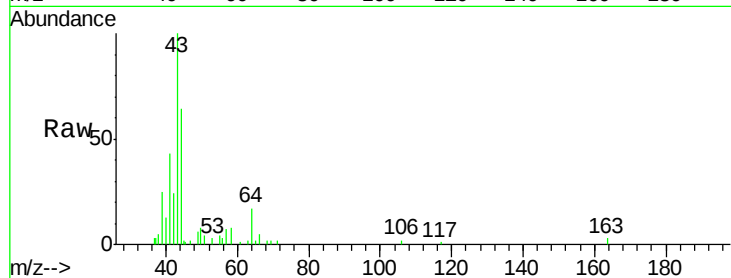
SS-2

Tgt Ion: 64 Resp: 1581

Ion Ratio Lower Upper

64 100

66 29.0 26.9 40.3



#9

Propene

Concen: 42.868 ppbv

RT: 3.30 min Scan# 687

Delta R.T. 0.20 min

Lab File: VL032199.D

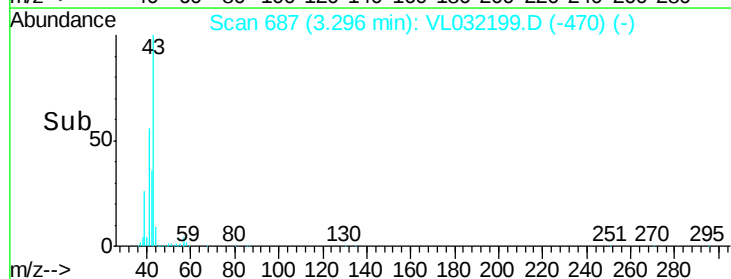
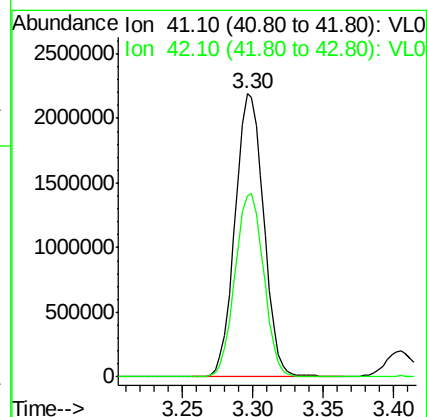
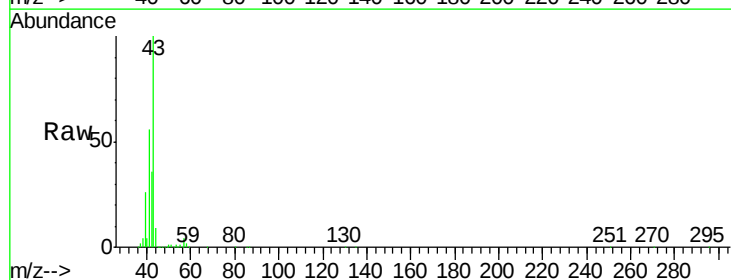
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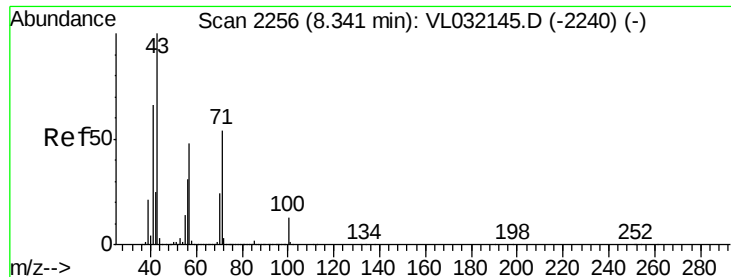
Tgt Ion: 41 Resp: 3101108

Ion Ratio Lower Upper

41 100

42 65.2 56.2 84.4





#10

Heptane

Concen: 11.405 ppbv

RT: 8.34 min Scan# 2257

Delta R.T. -0.01 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

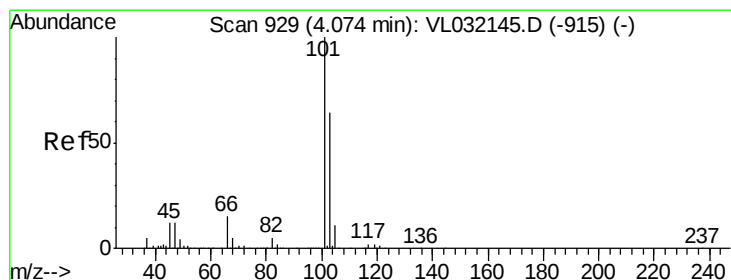
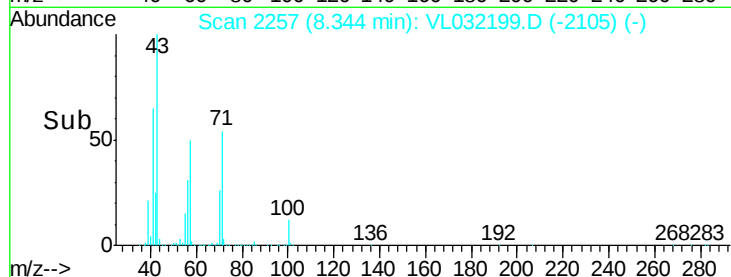
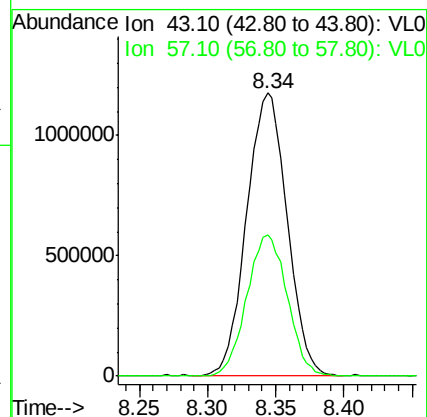
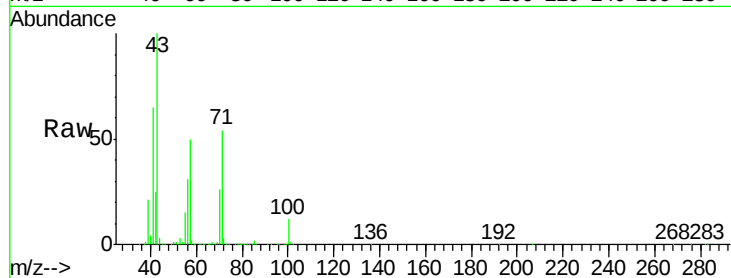
SS-2

Tgt Ion: 43 Resp: 2405350

Ion Ratio Lower Upper

43 100

57 50.4 39.8 59.8



#11

Trichlorofluoromethane

Concen: 2.472 ppbv

RT: 4.08 min Scan# 930

Delta R.T. -0.01 min

Lab File: VL032199.D

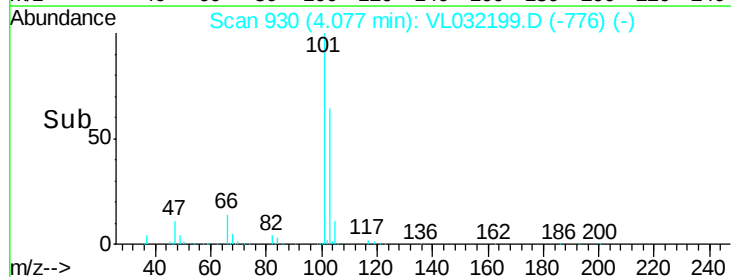
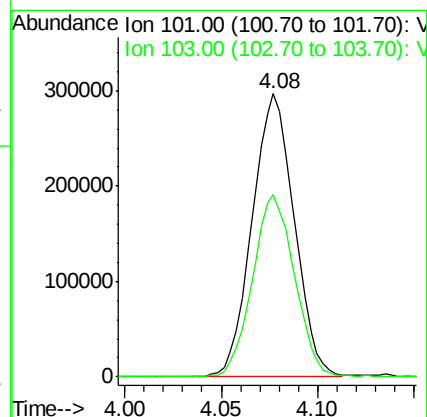
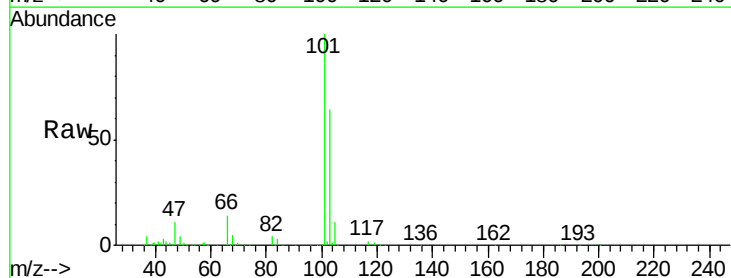
Acq: 3 Jul 2018 2:25

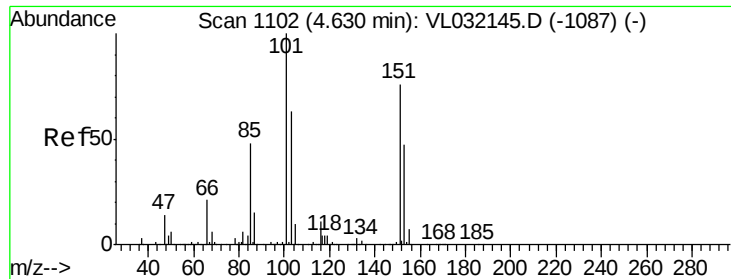
Tgt Ion: 101 Resp: 447352

Ion Ratio Lower Upper

101 100

103 64.4 51.4 77.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.060 ppbv

RT: 4.63 min Scan# 1103

Delta R.T. -0.01 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

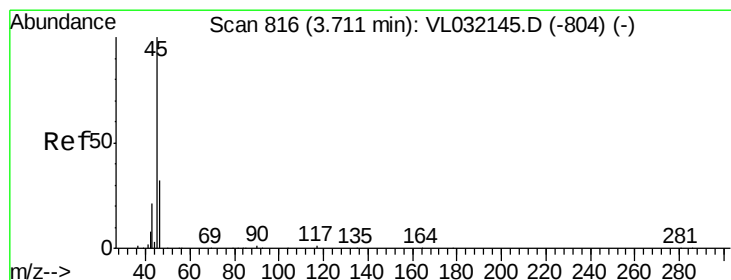
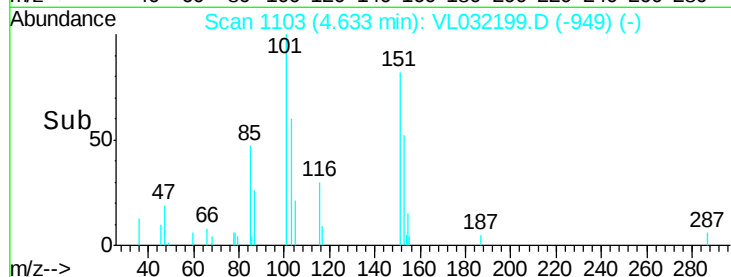
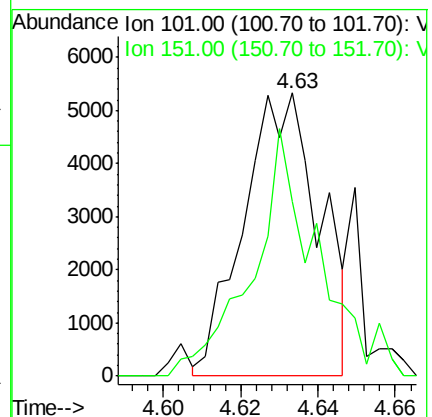
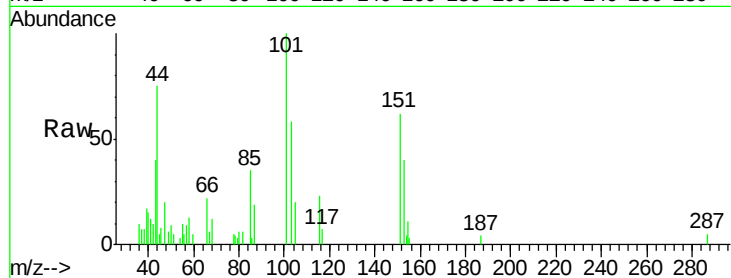
SS-2

Tgt Ion:101 Resp: 7275

Ion Ratio Lower Upper

101 100

151 74.4 58.8 88.2



#13

Ethanol

Concen: 8.173 ppbv

RT: 3.72 min Scan# 818

Delta R.T. -0.01 min

Lab File: VL032199.D

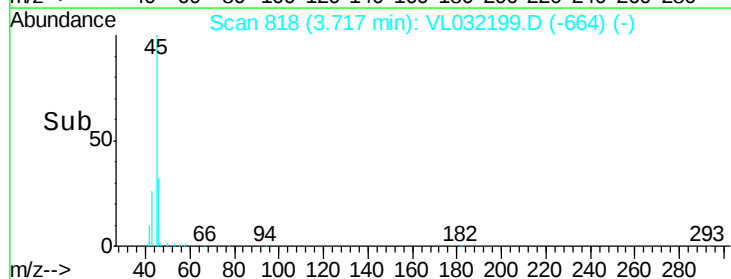
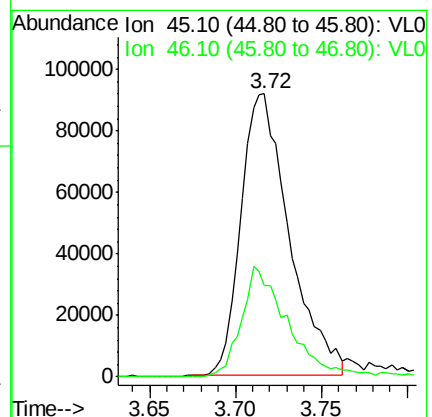
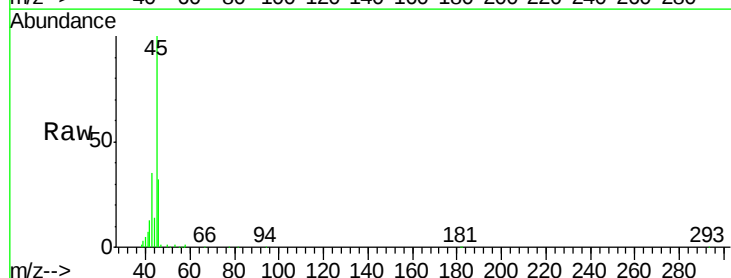
Acq: 3 Jul 2018 2:25

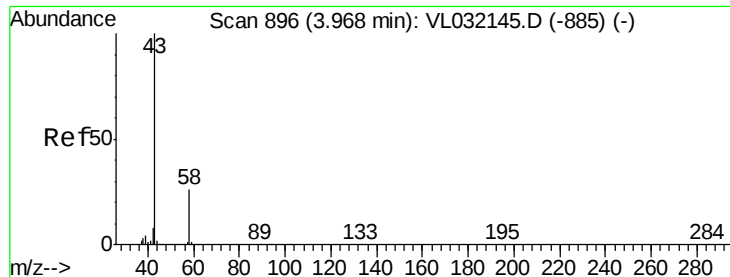
Tgt Ion: 45 Resp: 179227

Ion Ratio Lower Upper

45 100

46 39.1 14.6 58.4





#15

Acetone

Concen: 10.460 ppbv

RT: 3.96 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

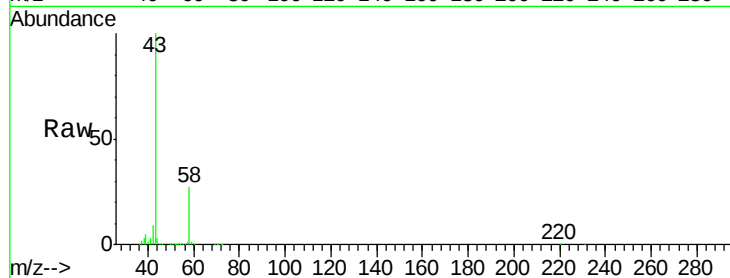
SS-2

Tgt Ion: 43 Resp: 1553644

Ion Ratio Lower Upper

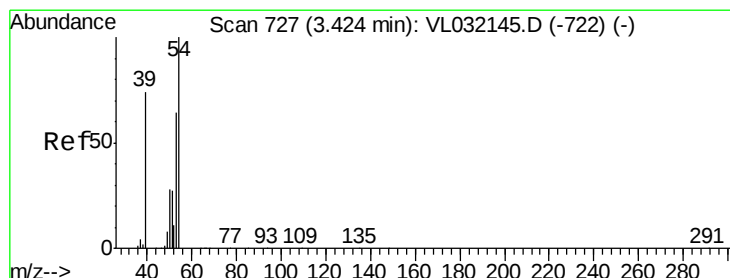
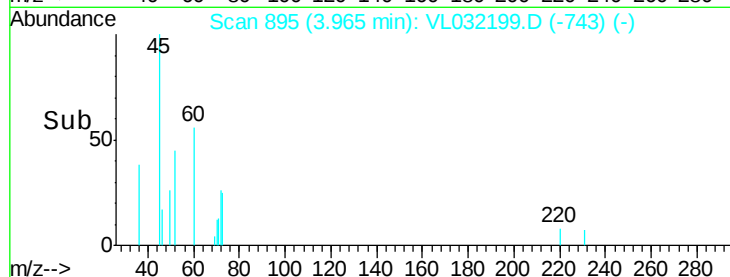
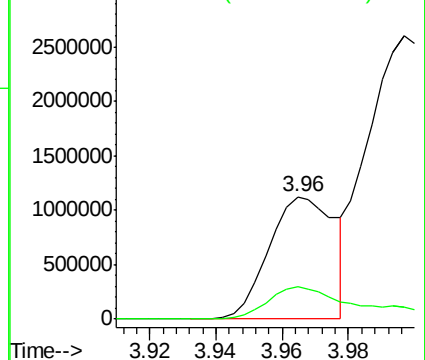
43 100

58 38.8 21.4 32.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 2.090 ppbv

RT: 3.40 min Scan# 720

Delta R.T. -0.03 min

Lab File: VL032199.D

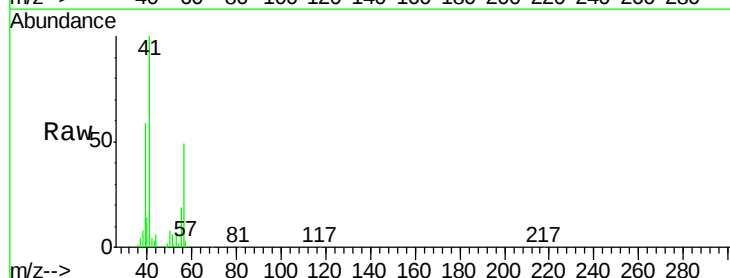
Acq: 3 Jul 2018 2:25

Tgt Ion: 39 Resp: 148114

Ion Ratio Lower Upper

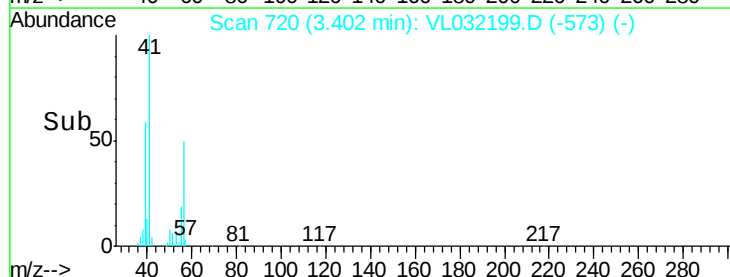
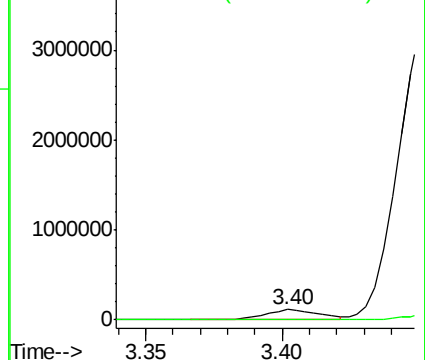
39 100

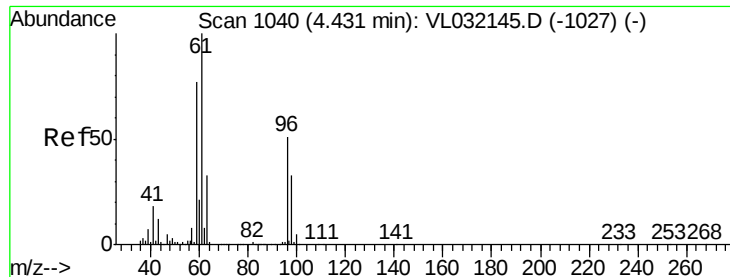
54 0.0 75.8 113.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

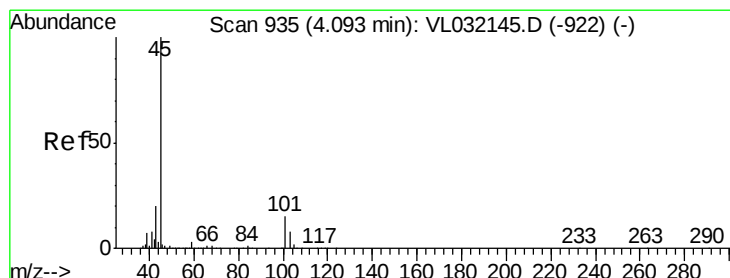
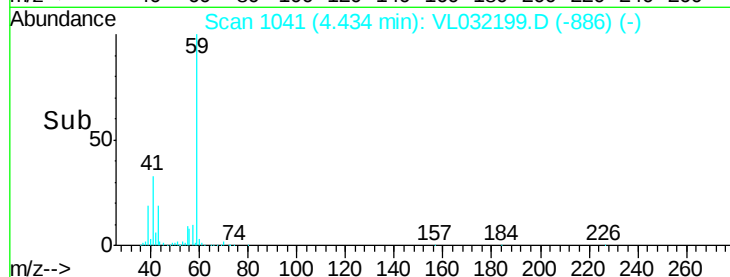
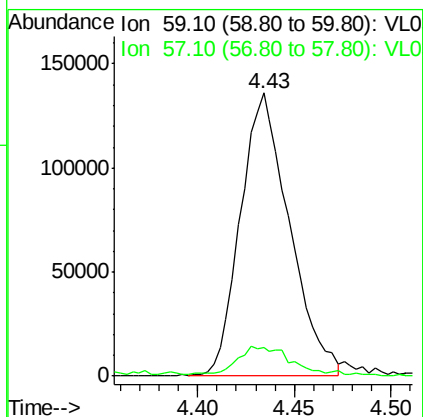
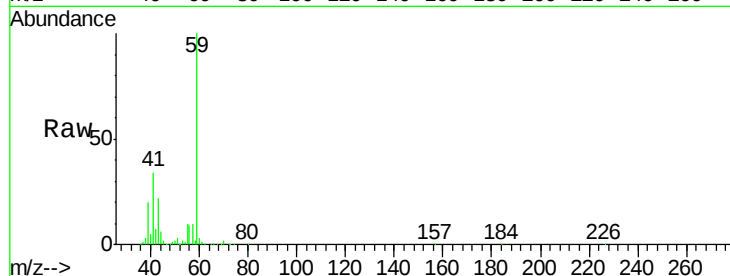




#17
 tert-Butyl alcohol
 Concen: 2.515 ppbv
 RT: 4.43 min Scan# 1041
 Delta R.T. -0.00 min
 Lab File: VL032199.D
 Acq: 3 Jul 2018 2:25

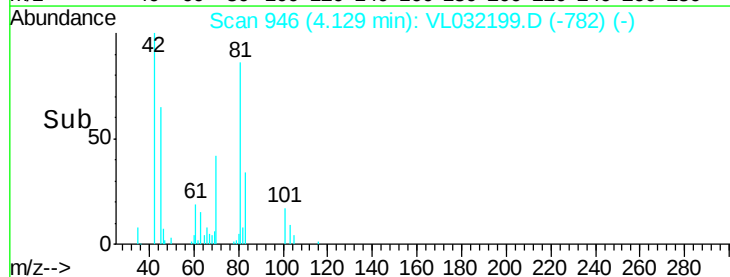
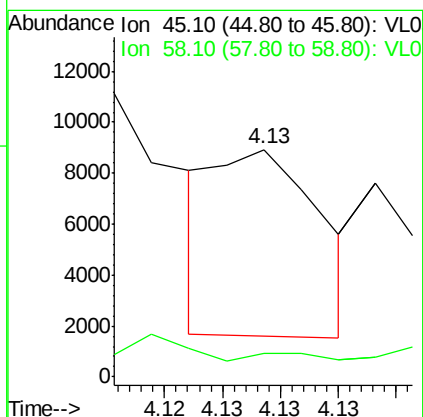
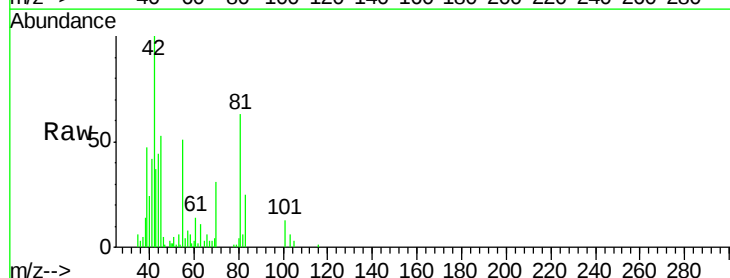
Instrument :
 MSVOA_L
 ClientSampleID :
 SS-2

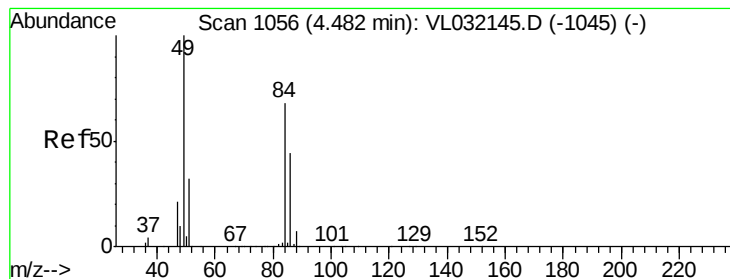
Tgt Ion: 59 Resp: 237898
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#



#19
 Isopropyl Alcohol
 Concen: 0.037 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. 0.03 min
 Lab File: VL032199.D
 Acq: 3 Jul 2018 2:25

Tgt Ion: 45 Resp: 4604
 Ion Ratio Lower Upper
 45 100
 58 0.0 29.4 44.0#





#20

Methylene Chloride

Concen: 0.427 ppbv

RT: 4.49 min Scan# 1057

Delta R.T. -0.01 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tgt Ion: 84 Resp: 23183

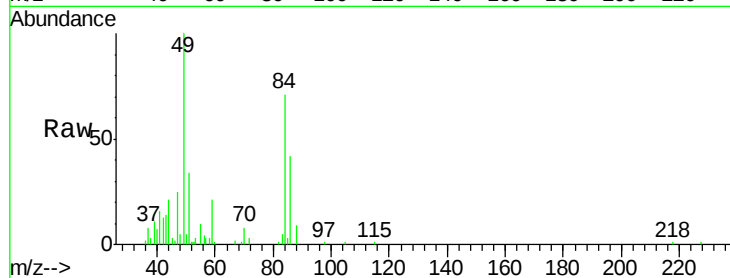
Ion Ratio Lower Upper

84 100

49 138.6 119.6 179.4

51 31.4 36.3 54.5#

86 60.0 49.7 74.5

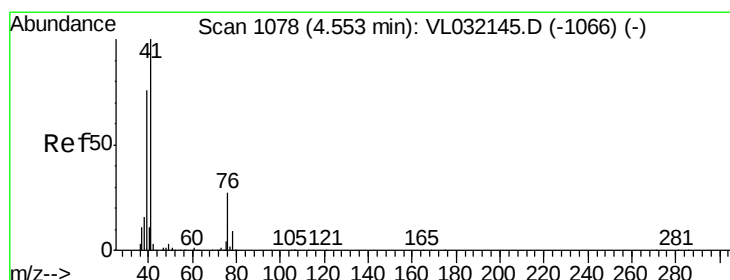
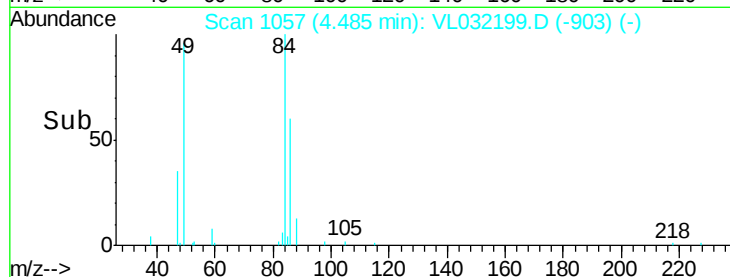
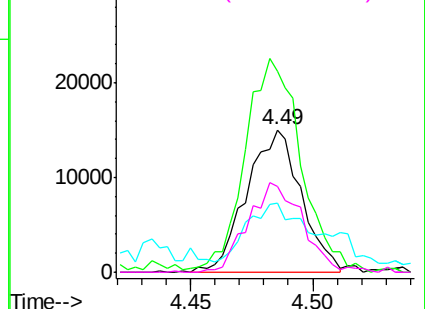


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 66.777 ppbv

RT: 4.26 min Scan# 988

Delta R.T. -0.30 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

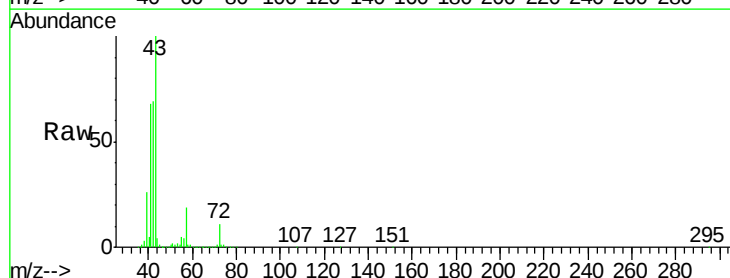
Tgt Ion: 41 Resp: 6773110

Ion Ratio Lower Upper

41 100

76 0.0 22.5 33.7#

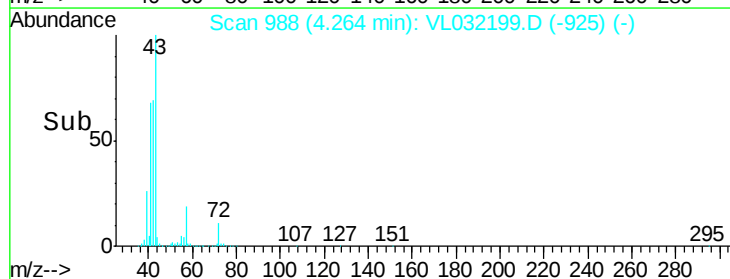
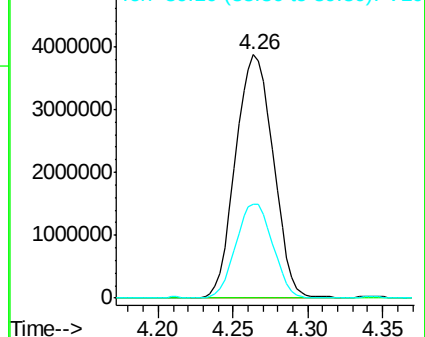
39 38.3 60.5 90.7#

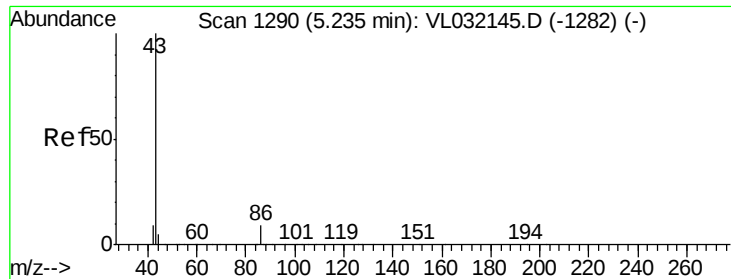


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 2.190 ppbv

RT: 5.22 min Scan# 1285

Delta R.T. -0.03 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tgt Ion: 43 Resp: 589838

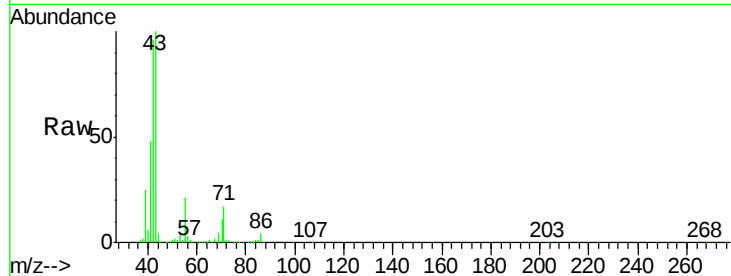
Ion Ratio Lower Upper

43 100

86 4.3 6.2 9.4#

42 95.7 6.9 10.3#

44 3.2 3.8 5.8#

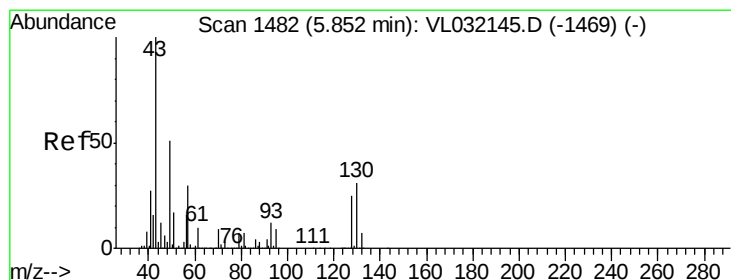
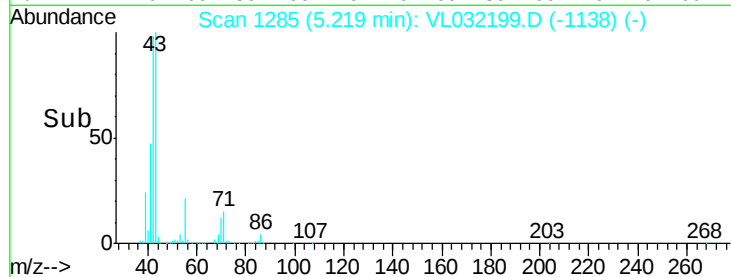
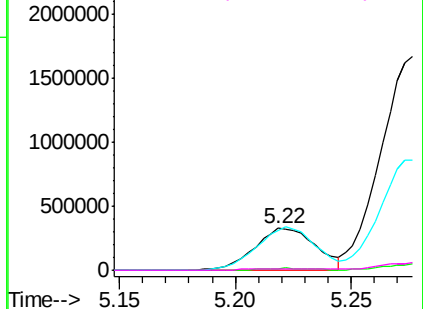


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 11.848 ppbv

RT: 5.87 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Tgt Ion: 43 Resp: 3641163

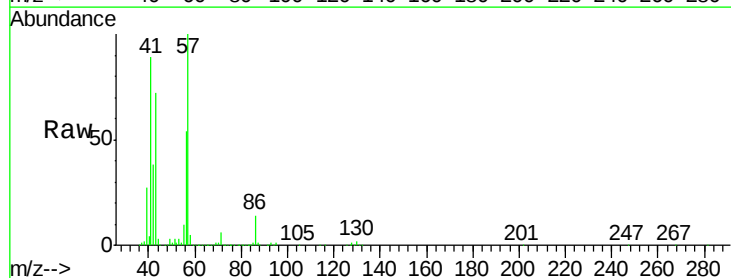
Ion Ratio Lower Upper

43 100

45 0.2 7.8 11.8#

61 0.2 7.4 11.0#

70 1.4 6.1 9.1#

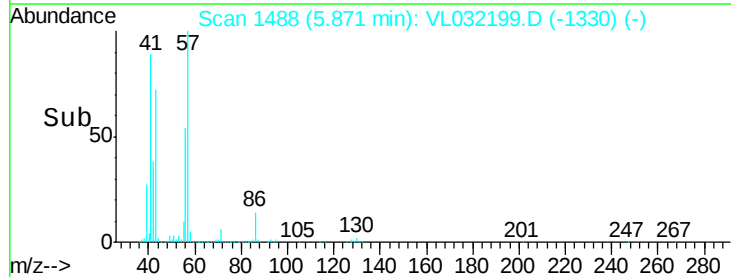
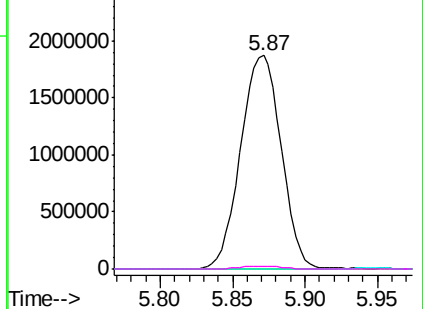


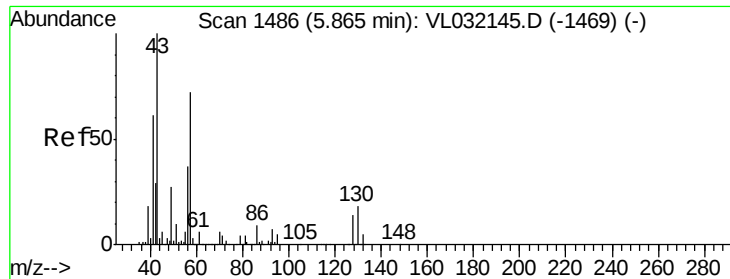
Abundance Ion 43.10 (42.80 to 43.80): VL0

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



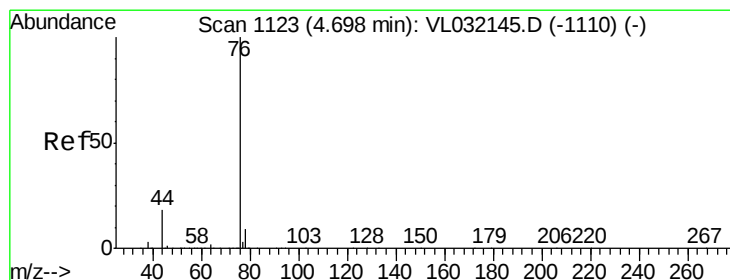
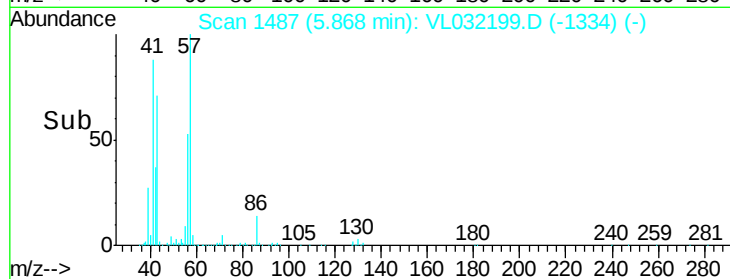
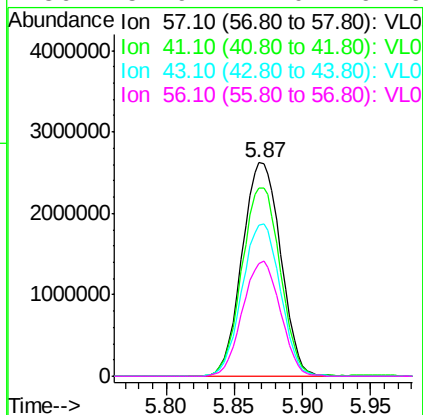
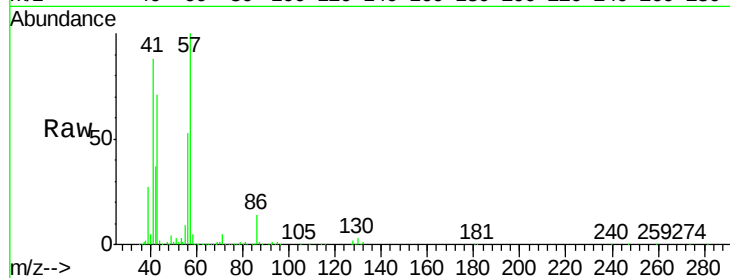


#26
Hexane
Concen: 36.367 ppbv
RT: 5.87 min Scan# 1487
Delta R.T. -0.01 min
Lab File: VL032199.D
Acq: 3 Jul 2018 2:25

Instrument :
MSVOA_L
ClientSampleId :
SS-2

Tgt Ion: 57 Resp: 5146455

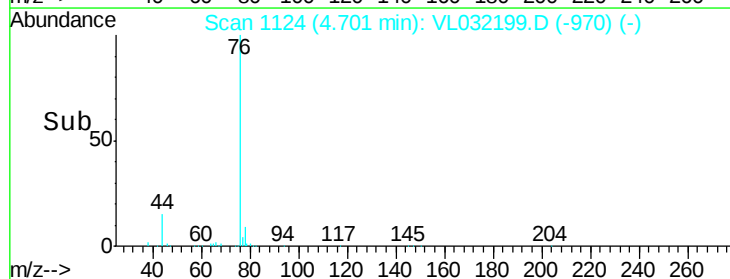
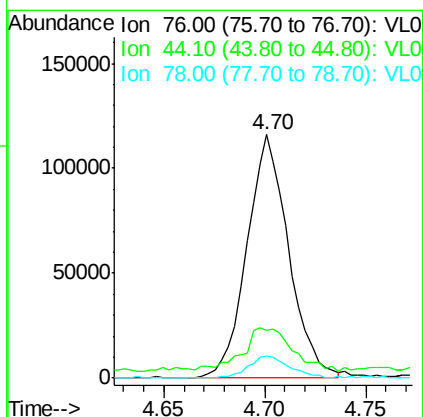
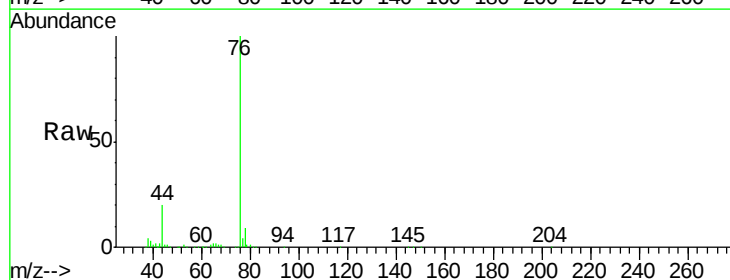
Ion	Ratio	Lower	Upper
57	100		
41	88.1	68.6	103.0
43	71.1	168.6	252.8#
56	52.9	41.0	61.6

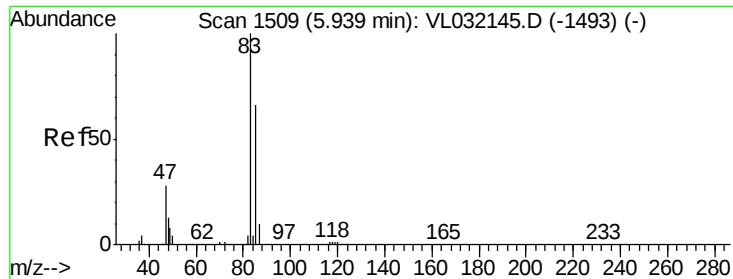


#27
Carbon Disulfide
Concen: 1.193 ppbv
RT: 4.70 min Scan# 1124
Delta R.T. -0.01 min
Lab File: VL032199.D
Acq: 3 Jul 2018 2:25

Tgt Ion: 76 Resp: 167872

Ion	Ratio	Lower	Upper
76	100		
44	22.3	15.1	22.7
78	9.9	7.2	10.8

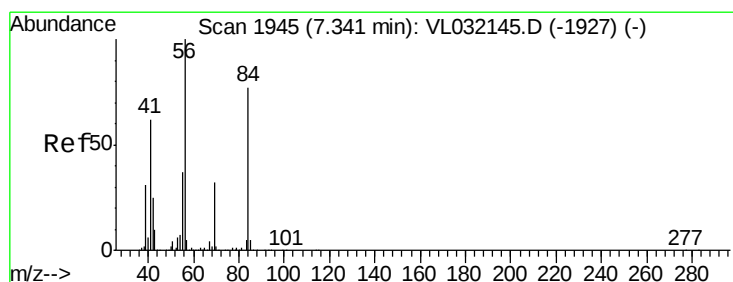
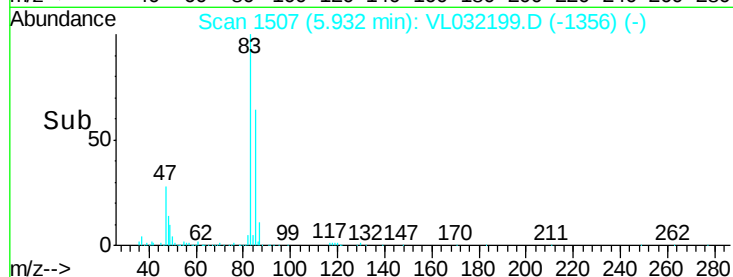
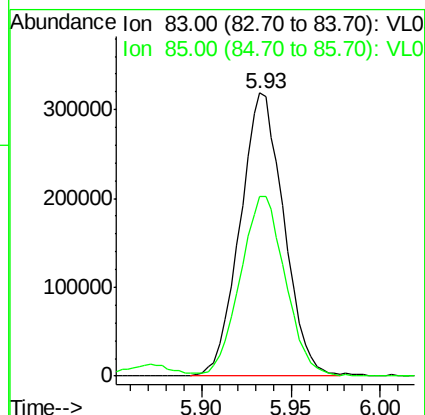
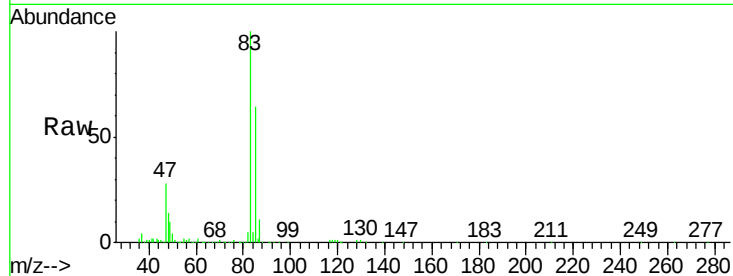




#29
Chloroform
Concen: 2.642 ppbv
RT: 5.93 min Scan# 1507
Delta R.T. -0.02 min
Lab File: VL032199.D
Acq: 3 Jul 2018 2:25

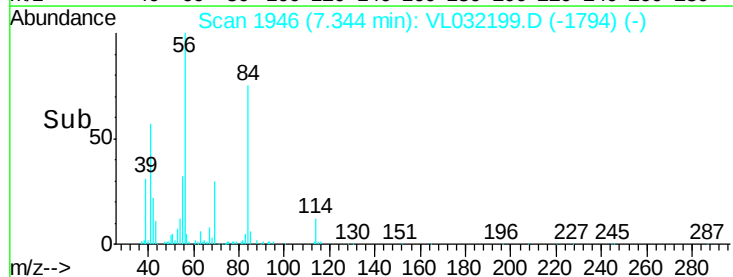
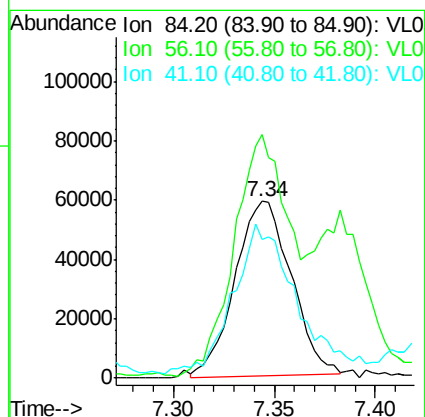
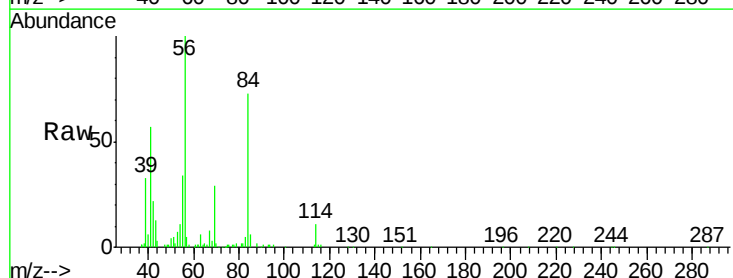
Instrument :
MSVOA_L
ClientSampleId :
SS-2

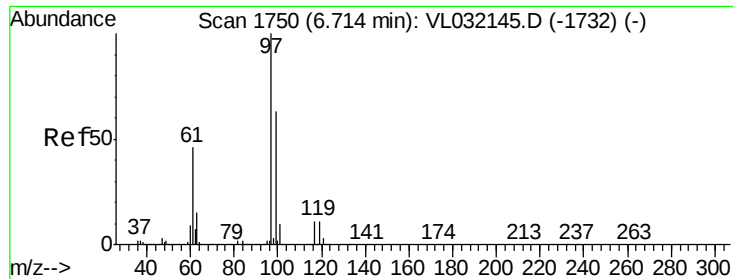
Tgt Ion: 83 Resp: 544185
Ion Ratio Lower Upper
83 100
85 63.3 51.6 77.4



#30
Cyclohexane
Concen: 0.862 ppbv
RT: 7.34 min Scan# 1946
Delta R.T. -0.01 min
Lab File: VL032199.D
Acq: 3 Jul 2018 2:25

Tgt Ion: 84 Resp: 115047
Ion Ratio Lower Upper
84 100
56 218.3 109.1 163.7#
41 93.7 64.6 96.8





#32

1,1,1-Trichloroethane

Concen: 1.239 ppbv

RT: 6.71 min Scan# 1749

Delta R.T. -0.01 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

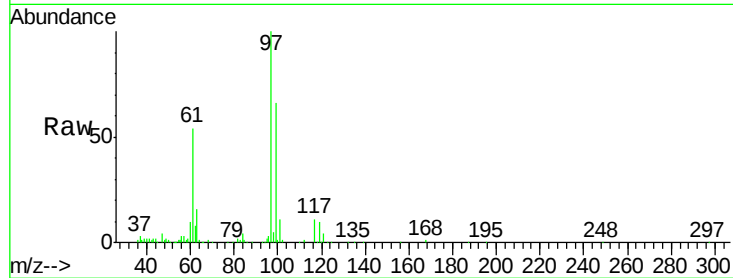
Tgt Ion: 97 Resp: 267619

Ion Ratio Lower Upper

97 100

99 62.5 51.3 76.9

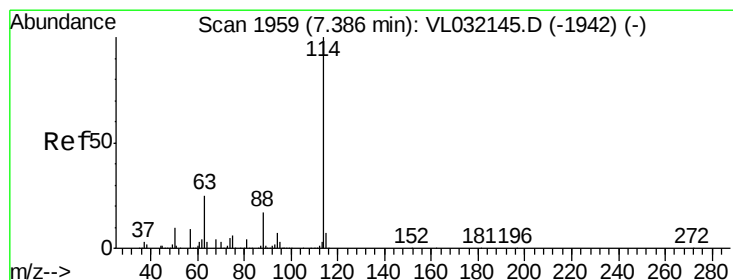
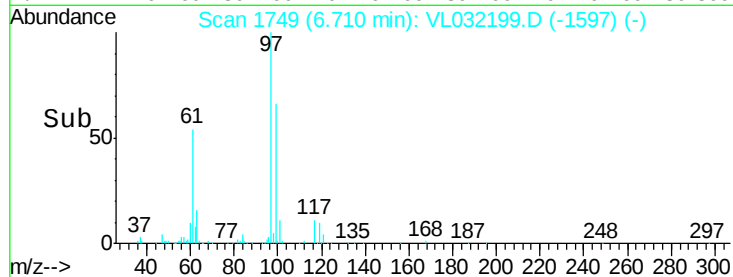
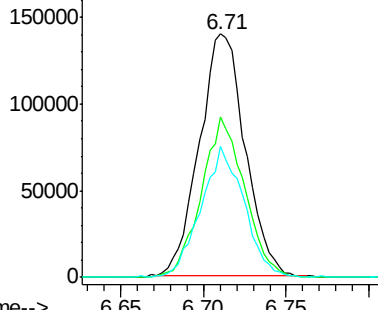
61 51.2 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.38 min Scan# 1958

Delta R.T. -0.02 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

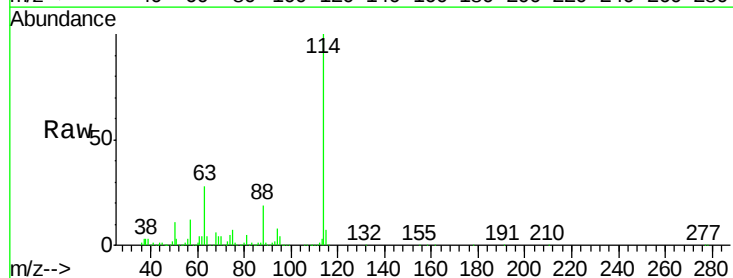
Tgt Ion: 114 Resp: 3482193

Ion Ratio Lower Upper

114 100

63 27.3 19.1 28.7

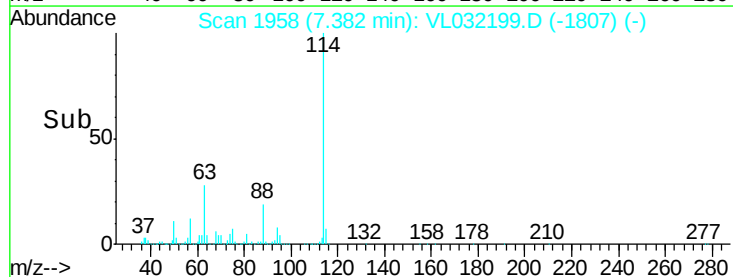
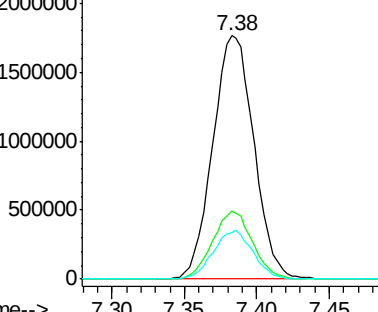
88 19.3 13.9 20.9

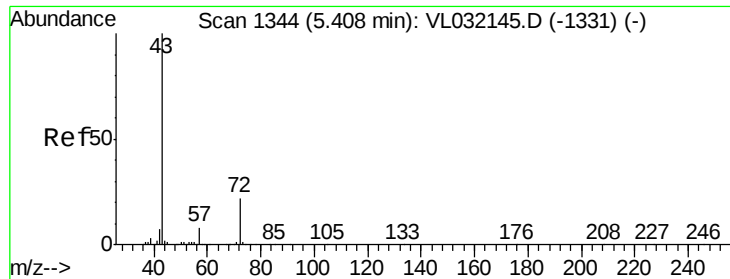


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

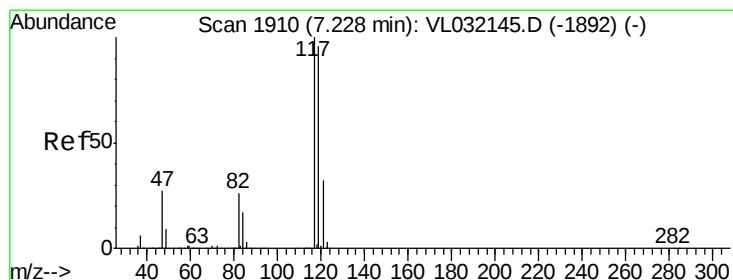
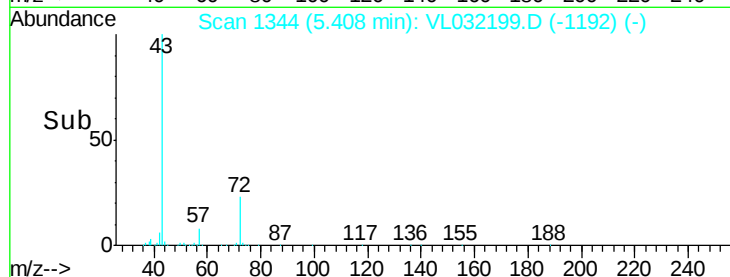
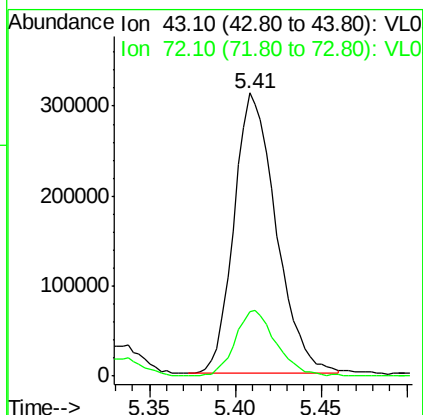
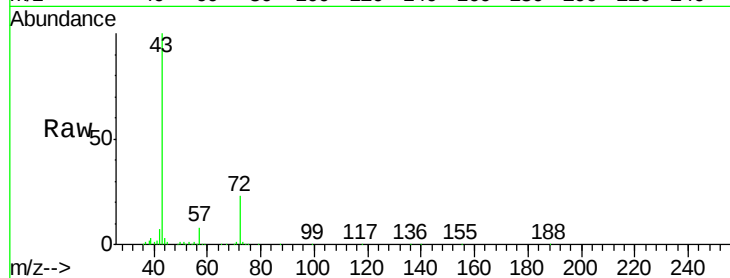




#34
2-Butanone
Concen: 2.411 ppbv
RT: 5.41 min Scan# 1344
Delta R.T. -0.01 min
Lab File: VL032199.D
Acq: 3 Jul 2018 2:25

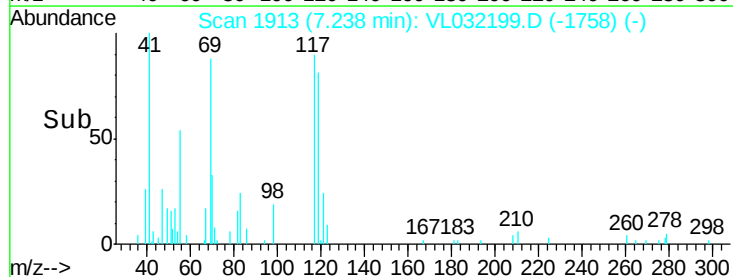
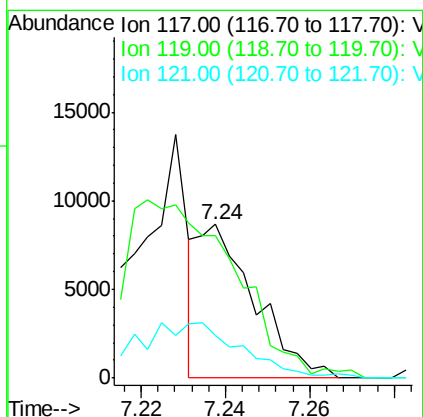
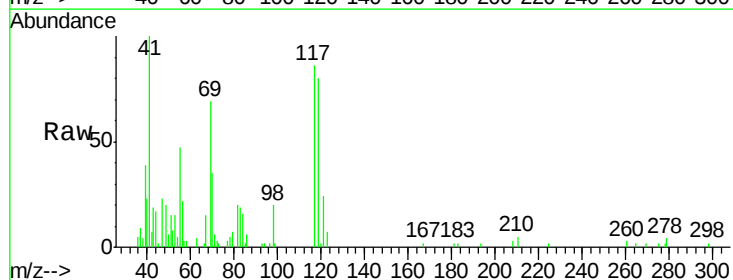
Instrument :
MSVOA_L
ClientSampleId :
SS-2

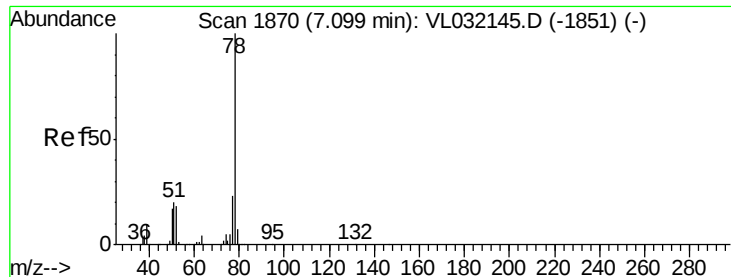
Tgt Ion: 43 Resp: 532984
Ion Ratio Lower Upper
43 100
72 23.1 18.4 27.6



#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 7.24 min Scan# 1913
Delta R.T. -0.00 min
Lab File: VL032199.D
Acq: 3 Jul 2018 2:25

Tgt Ion: 117 Resp: 8012
Ion Ratio Lower Upper
117 100
119 88.1 74.8 112.2
121 25.2 24.0 36.0





#36

Benzene

Concen: 1.553 ppbv

RT: 7.10 min Scan# 1870

Delta R.T. -0.01 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

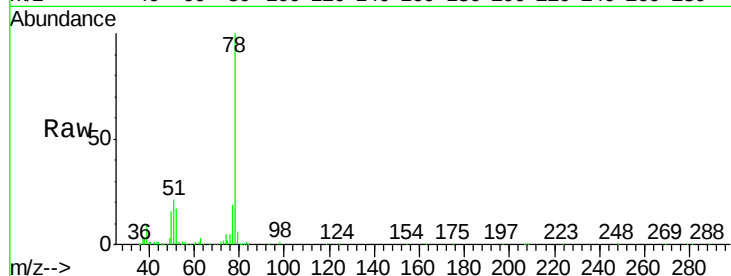
Tgt Ion: 78 Resp: 523387

Ion Ratio Lower Upper

78 100

77 18.5 17.7 26.5

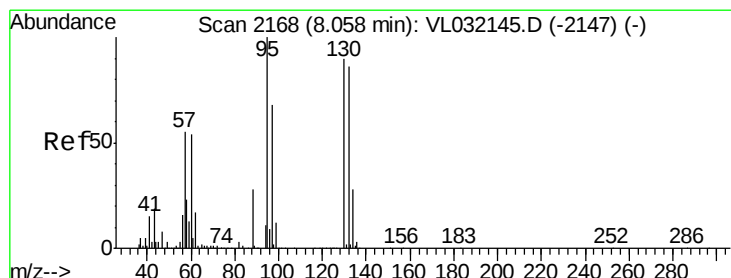
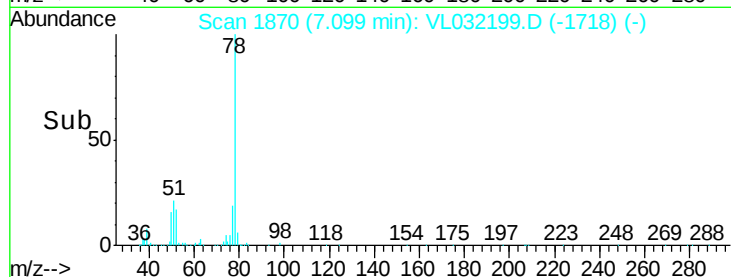
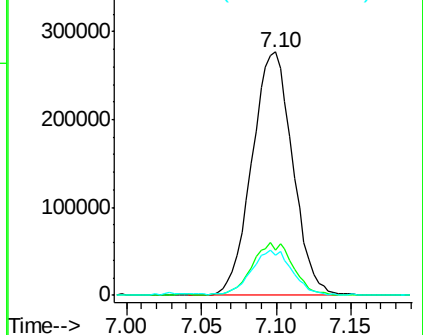
50 16.0 14.0 21.0



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 0.142 ppbv

RT: 8.05 min Scan# 2167

Delta R.T. -0.02 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Tgt Ion: 130 Resp: 18753

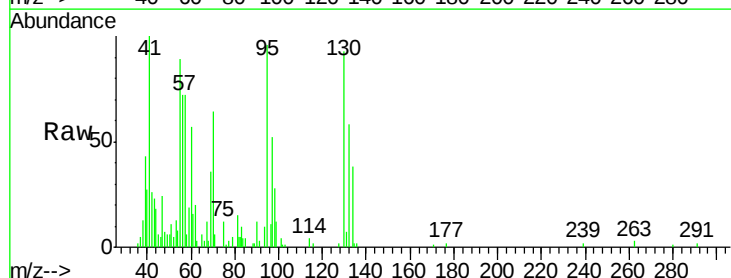
Ion Ratio Lower Upper

130 100

95 98.9 88.1 132.1

132 57.9 74.6 112.0#

97 51.0 58.6 88.0#

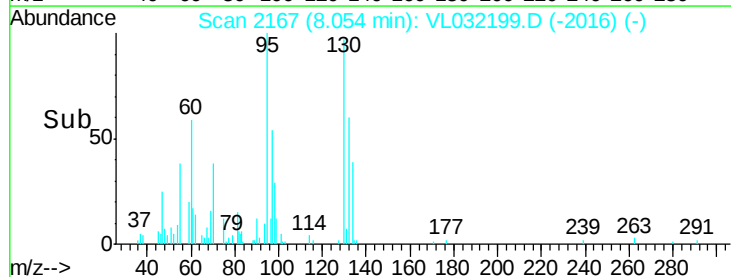
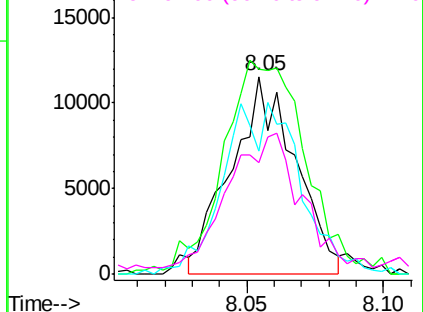


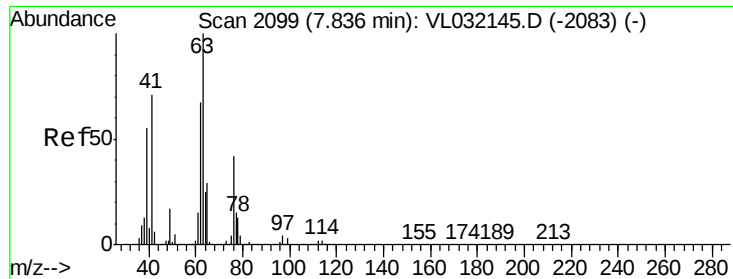
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 7.041 ppbv

RT: 7.38 min Scan# 1958

Delta R.T. -0.47 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

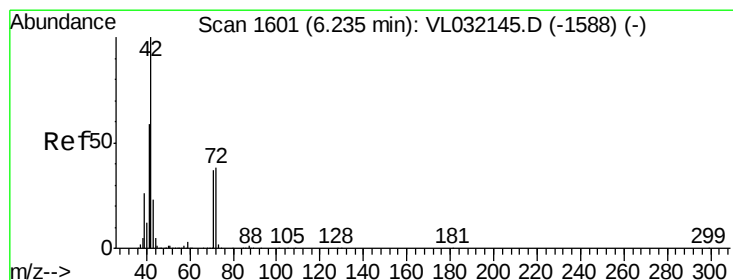
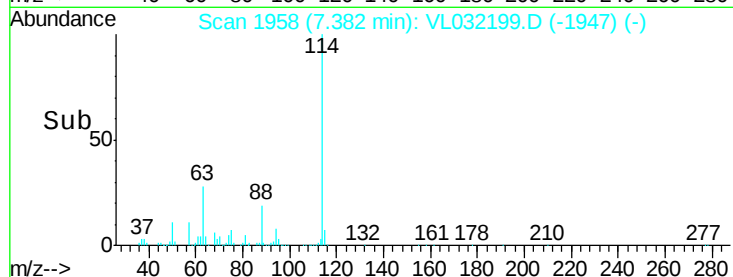
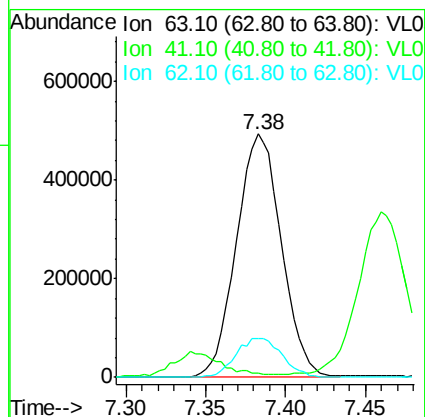
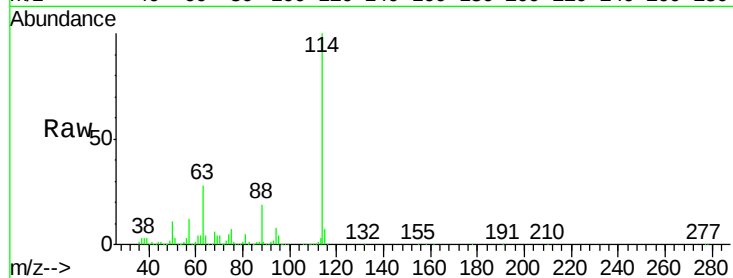
Tgt Ion: 63 Resp: 935859

Ion Ratio Lower Upper

63 100

41 0.0 53.3 79.9#

62 16.0 54.8 82.2#



#41

Tetrahydrofuran

Concen: 0.771 ppbv

RT: 6.25 min Scan# 1605

Delta R.T. 0.00 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

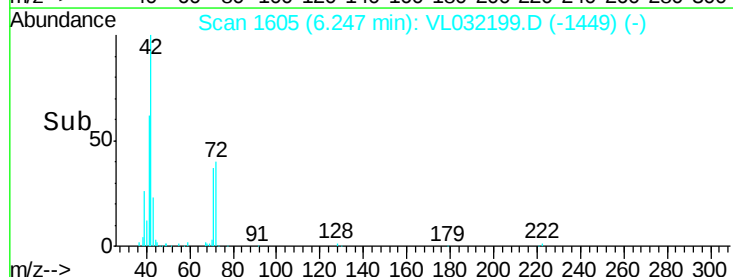
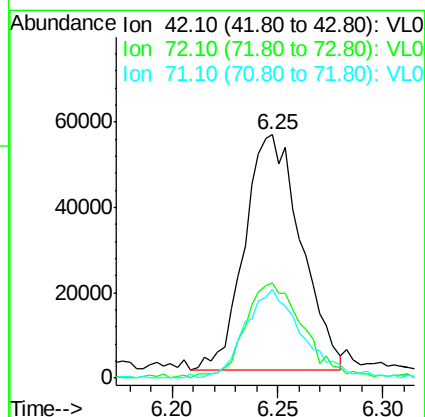
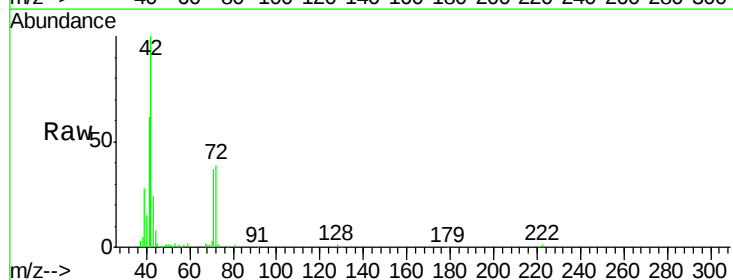
Tgt Ion: 42 Resp: 102134

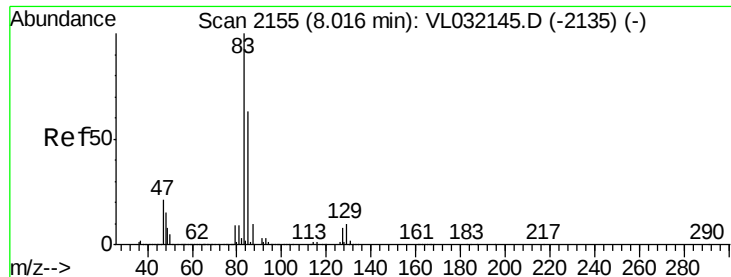
Ion Ratio Lower Upper

42 100

72 42.5 31.1 46.7

71 39.3 29.5 44.3





#42

Bromodichloromethane

Concen: 0.044 ppbv

RT: 8.01 min Scan# 2152

Delta R.T. -0.02 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

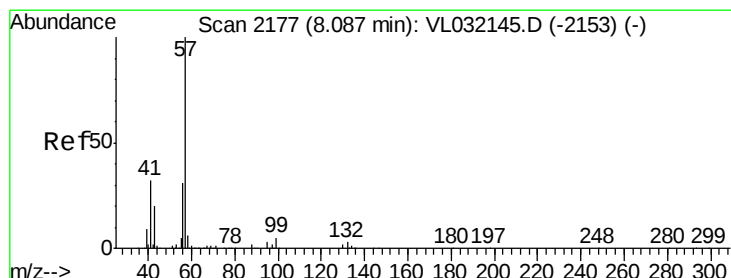
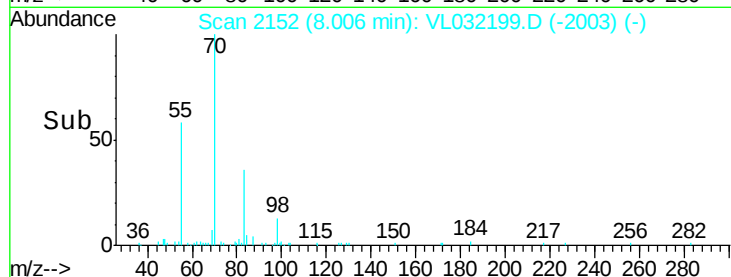
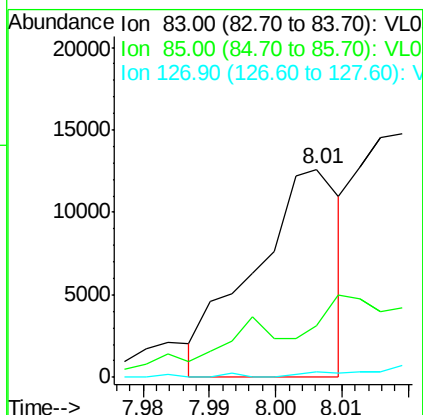
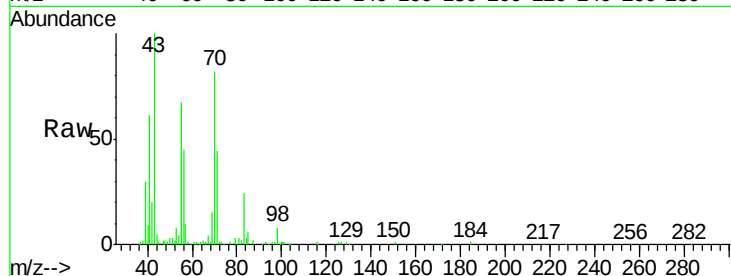
Tgt Ion: 83 Resp: 11452

Ion Ratio Lower Upper

83 100

85 20.6 52.6 79.0#

127 2.9 6.5 9.7#



#44

2,2,4-Trimethylpentane

Concen: 0.349 ppbv

RT: 8.09 min Scan# 2177

Delta R.T. -0.02 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

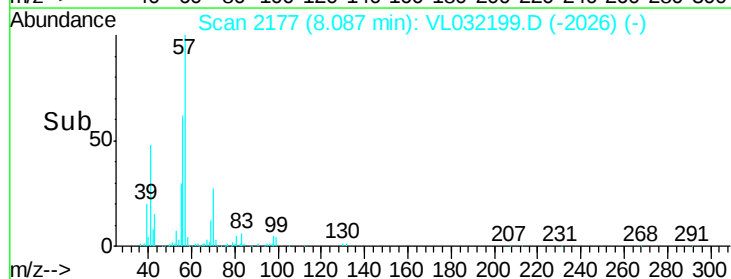
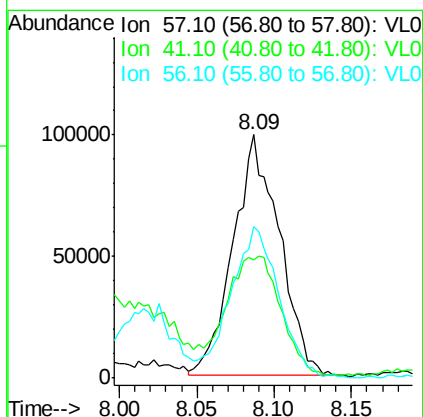
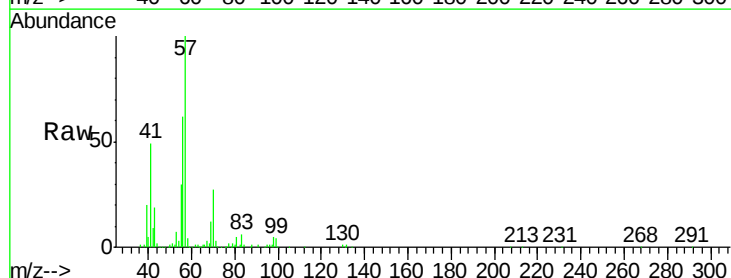
Tgt Ion: 57 Resp: 205833

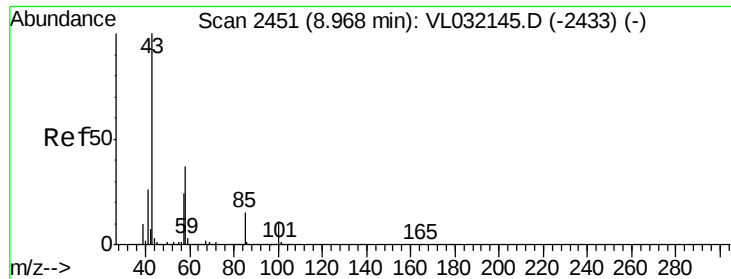
Ion Ratio Lower Upper

57 100

41 60.9 24.3 36.5#

56 65.3 25.1 37.7#

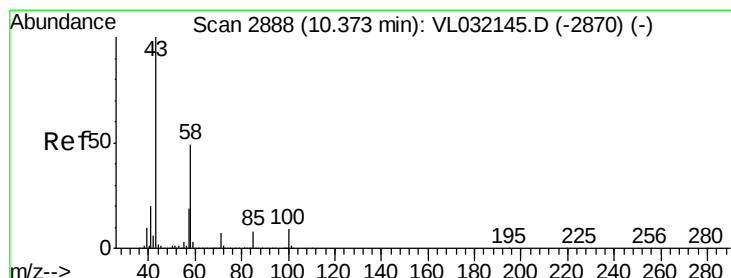
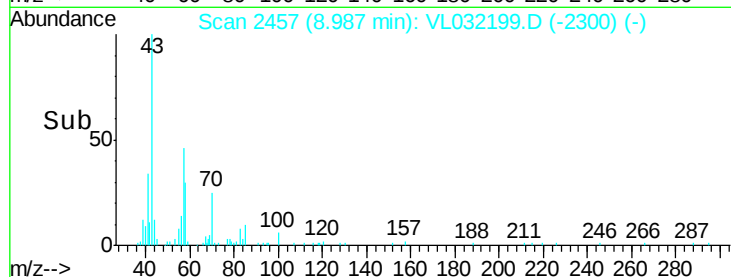
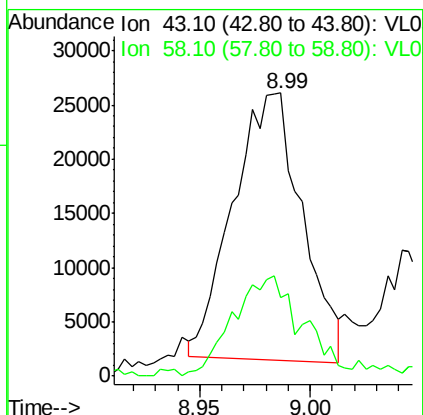
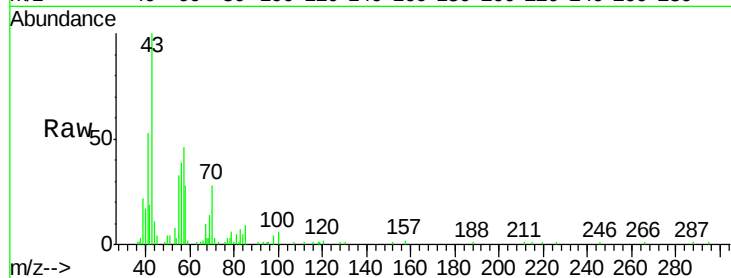




#50
 4-Methyl-2-Pentanone
 Concen: 0.148 ppbv
 RT: 8.99 min Scan# 2457
 Delta R.T. 0.00 min
 Lab File: VL032199.D
 Acq: 3 Jul 2018 2:25

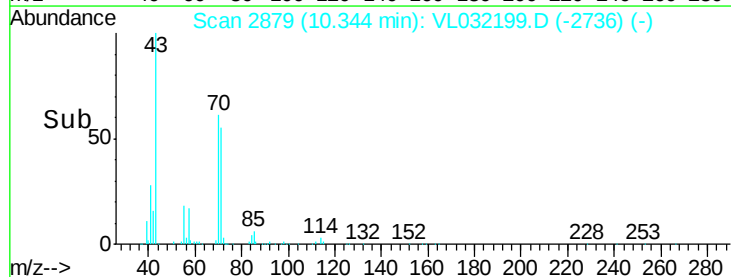
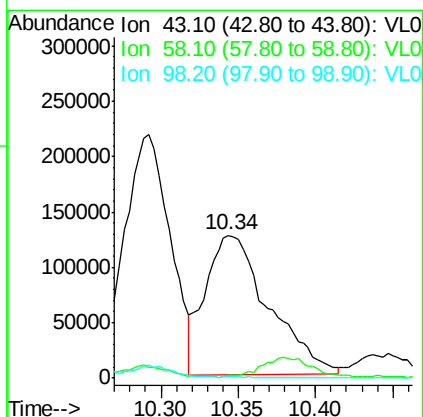
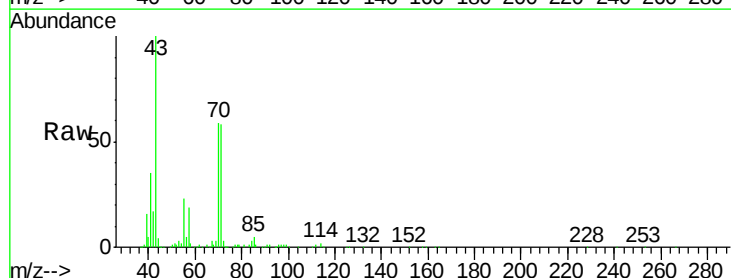
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2

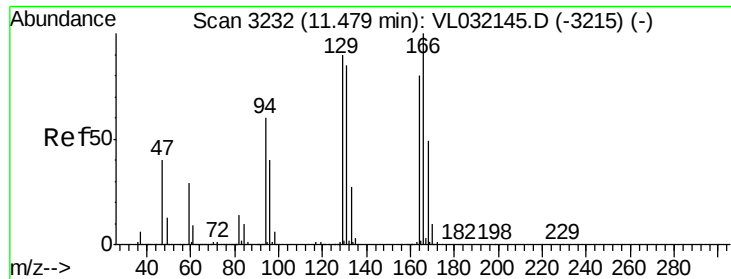
Tgt Ion: 43 Resp: 53459
 Ion Ratio Lower Upper
 43 100
 58 39.0 29.8 44.6



#51
 2-Hexanone
 Concen: 1.192 ppbv
 RT: 10.34 min Scan# 2879
 Delta R.T. -0.04 min
 Lab File: VL032199.D
 Acq: 3 Jul 2018 2:25

Tgt Ion: 43 Resp: 357665
 Ion Ratio Lower Upper
 43 100
 58 13.4 40.6 60.8#
 98 0.7 0.1 0.1#





#52

Tetrachloroethene

Concen: 4.975 ppbv

RT: 11.47 min Scan# 3230

Delta R.T. -0.02 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tgt Ion:164 Resp: 609681

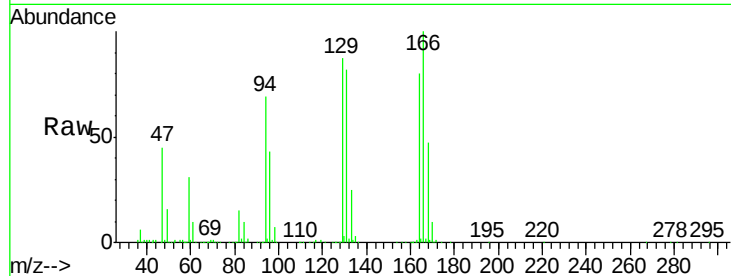
Ion Ratio Lower Upper

164 100

166 124.4 100.6 151.0

129 107.6 84.0 126.0

131 101.9 82.7 124.1

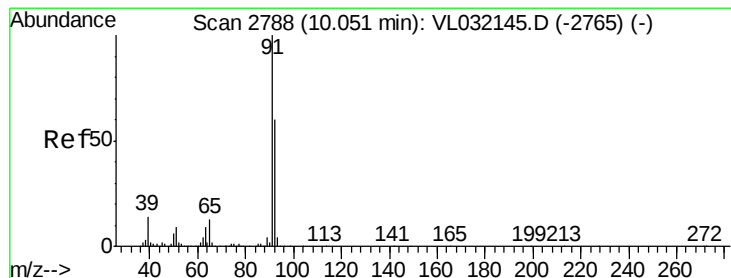
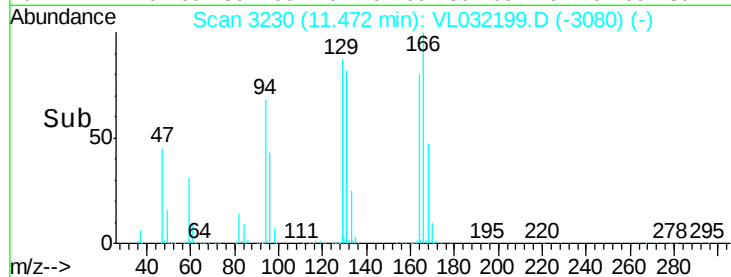
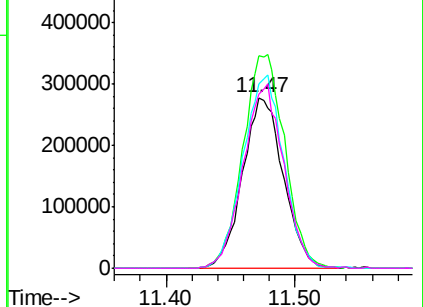


Abundance Ion 163.90 (163.60 to 164.60): V

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: 10.461 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032199.D

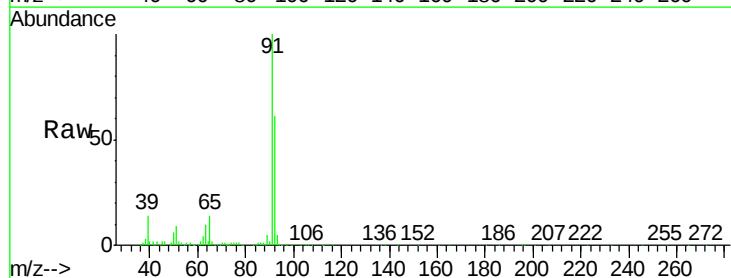
Acq: 3 Jul 2018 2:25

Tgt Ion: 91 Resp: 4261328

Ion Ratio Lower Upper

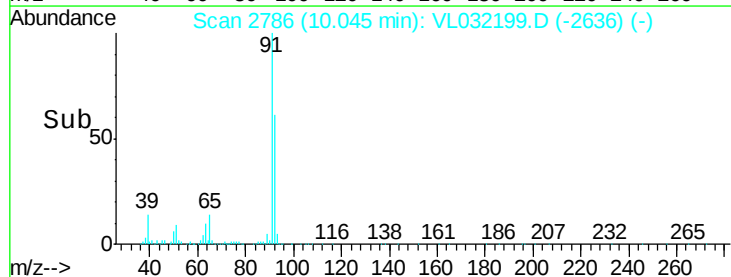
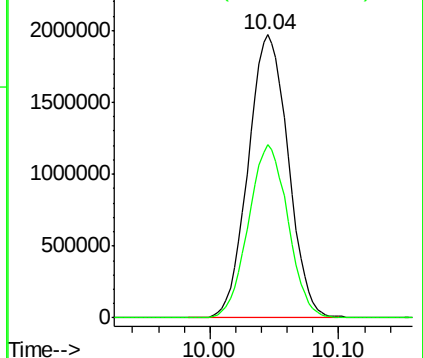
91 100

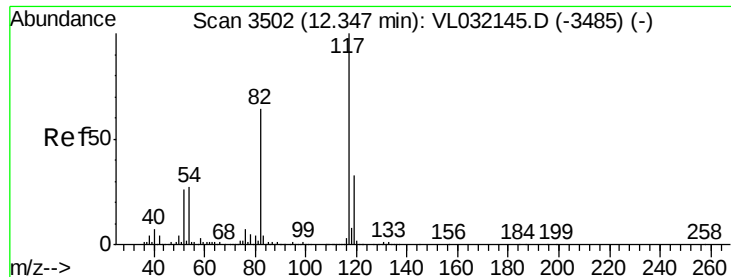
92 60.7 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

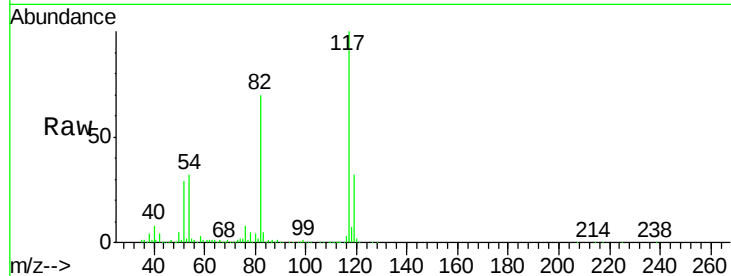




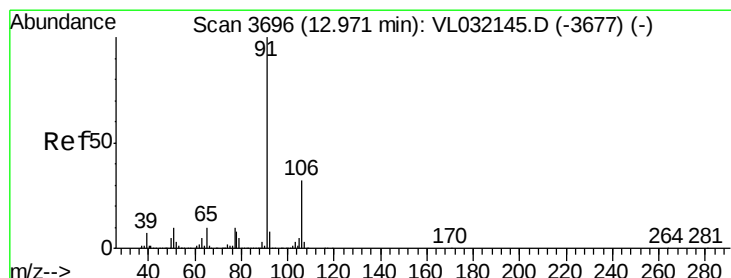
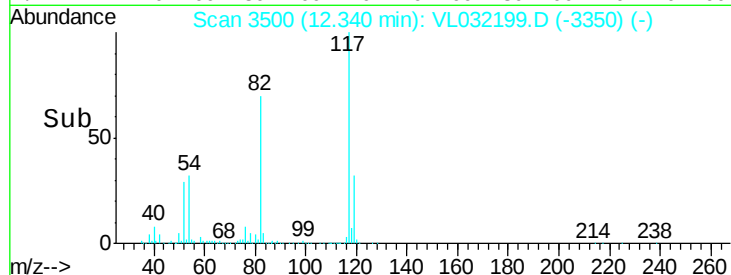
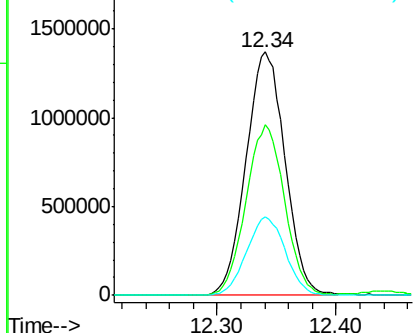
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.34 min Scan# 3500
Delta R.T. -0.02 min
Lab File: VL032199.D
Acq: 3 Jul 2018 2:25

Instrument :
MSVOA_L
ClientSampleId :
SS-2

Tgt Ion:117 Resp: 3112306
Ion Ratio Lower Upper
117 100
82 69.3 47.8 71.8
119 32.3 43.3 64.9#

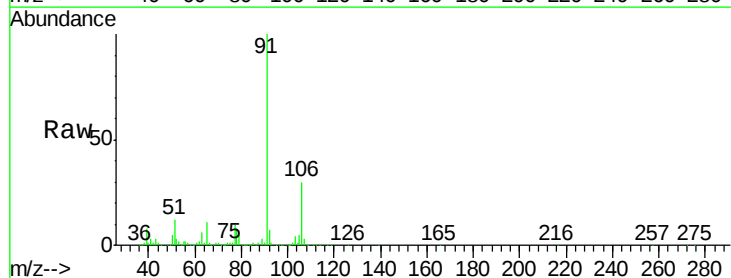


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

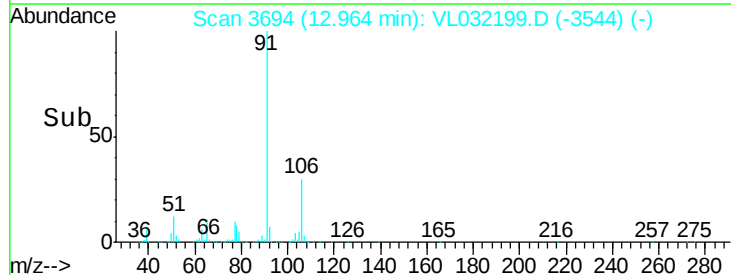
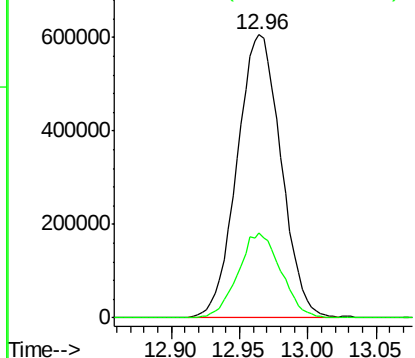


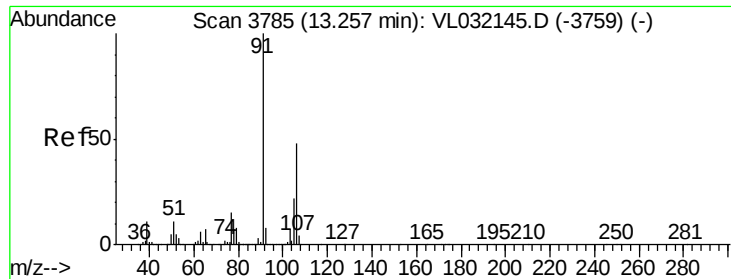
#58
Ethyl Benzene
Concen: 2.692 ppbv
RT: 12.96 min Scan# 3694
Delta R.T. -0.02 min
Lab File: VL032199.D
Acq: 3 Jul 2018 2:25

Tgt Ion: 91 Resp: 1350278
Ion Ratio Lower Upper
91 100
106 30.1 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

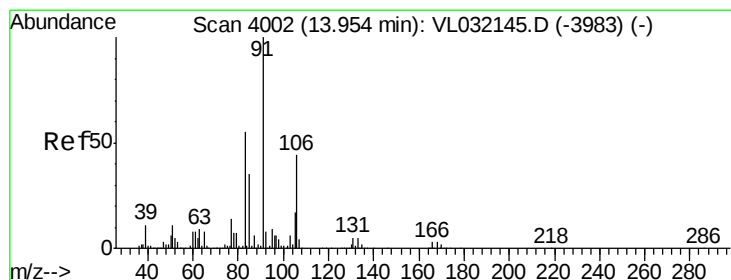
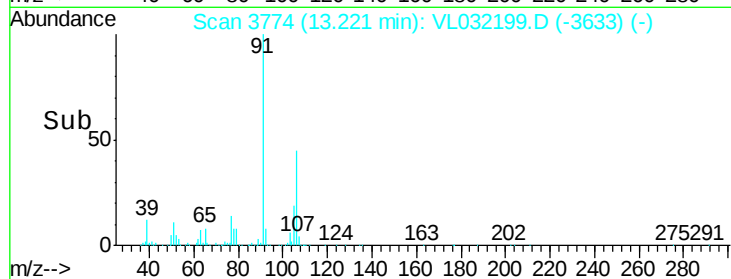
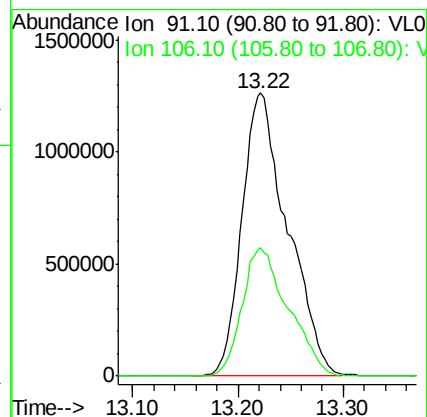
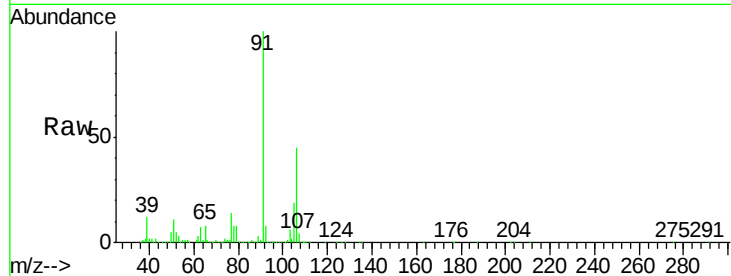




#59
m/p-Xylene
Concen: 9.421 ppbv
RT: 13.22 min Scan# 3774
Delta R.T. -0.05 min
Lab File: VL032199.D
Acq: 3 Jul 2018 2:25

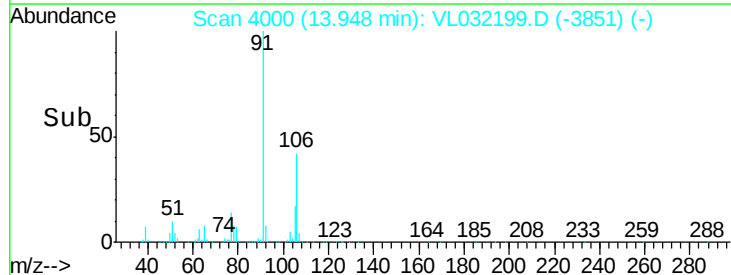
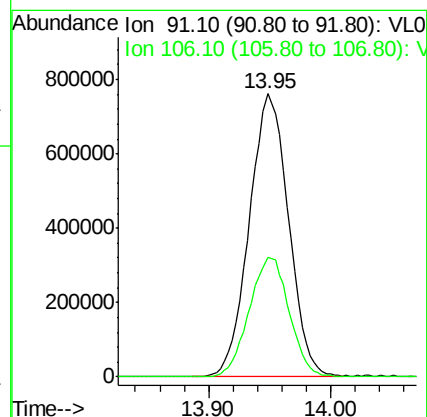
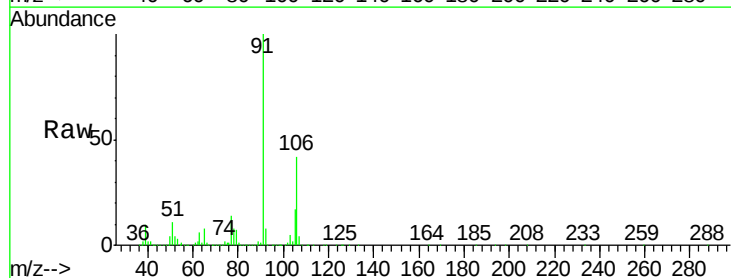
Instrument :
MSVOA_L
ClientSampleId :
SS-2

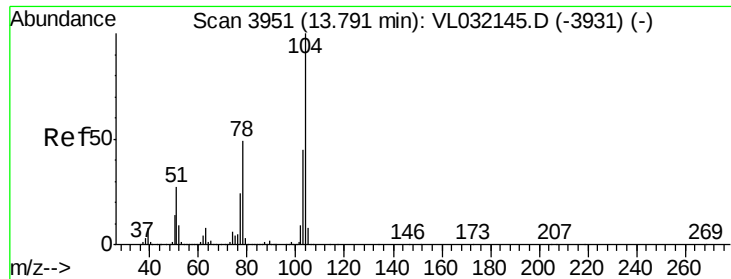
Tgt Ion: 91 Resp: 3787606
Ion Ratio Lower Upper
91 100
106 46.1 38.6 58.0



#60
o-Xylene
Concen: 4.206 ppbv
RT: 13.95 min Scan# 4000
Delta R.T. -0.02 min
Lab File: VL032199.D
Acq: 3 Jul 2018 2:25

Tgt Ion: 91 Resp: 1686757
Ion Ratio Lower Upper
91 100
106 43.2 23.3 69.8





#61

Styrene

Concen: 0.116 ppbv

RT: 13.78 min Scan# 3949

Delta R.T. -0.02 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

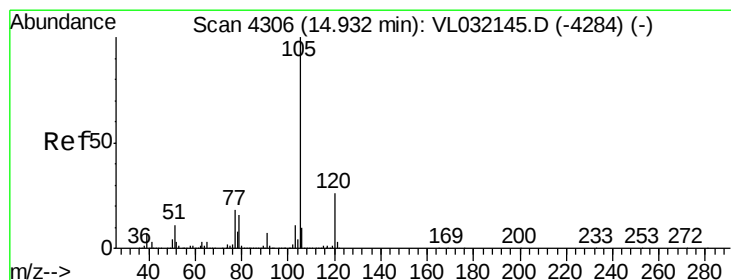
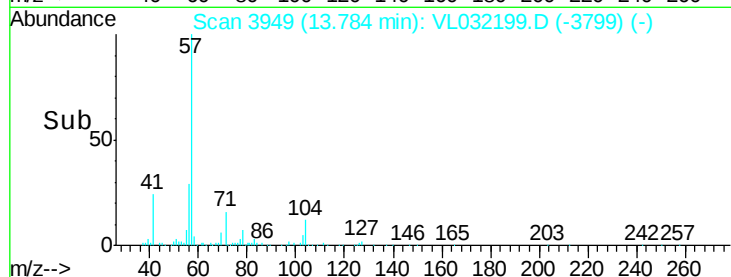
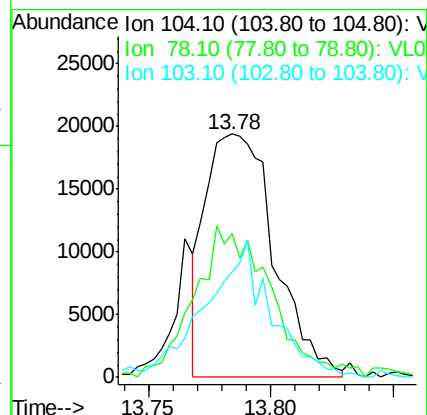
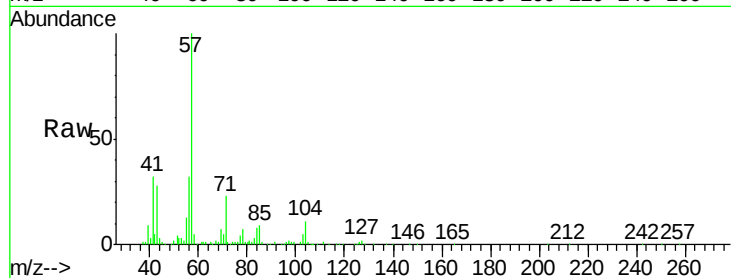
MSVOA_L

ClientSampleId :

SS-2

Tgt Ion:104 Resp: 38137

Ion	Ratio	Lower	Upper
104	100		
78	70.3	37.9	56.9#
103	54.7	36.6	55.0



#62

Isopropylbenzene

Concen: 0.296 ppbv

RT: 14.93 min Scan# 4304

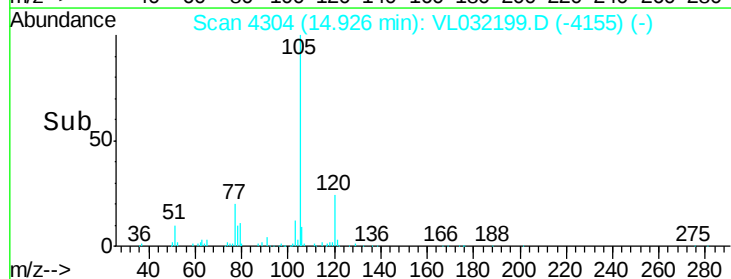
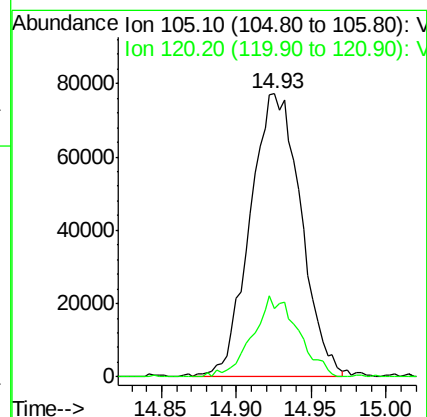
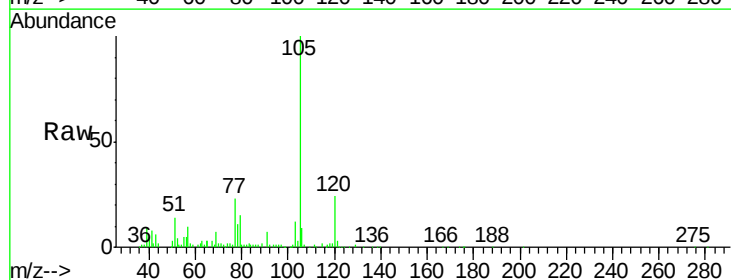
Delta R.T. -0.02 min

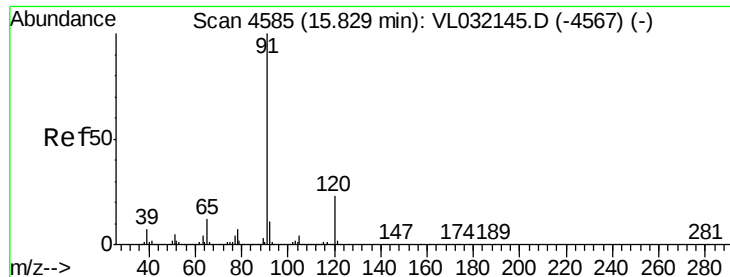
Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Tgt Ion:105 Resp: 182515

Ion	Ratio	Lower	Upper
105	100		
120	25.7	21.0	31.4





#64

n-propylbenzene

Concen: 0.363 ppbv

RT: 15.82 min Scan# 4582

Delta R.T. -0.02 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampled :

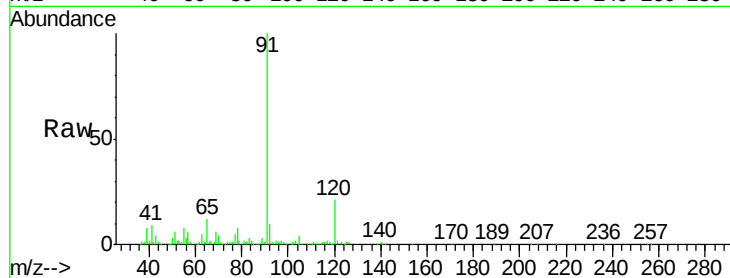
SS-2

Tgt Ion:120 Resp: 57924

Ion Ratio Lower Upper

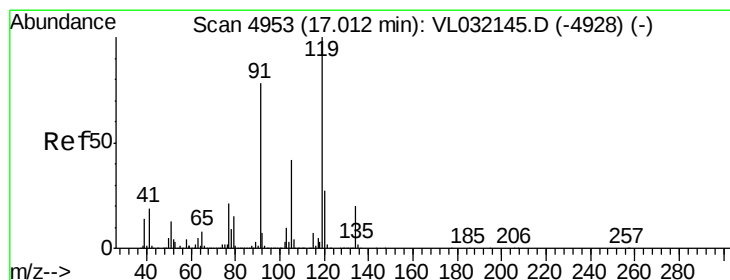
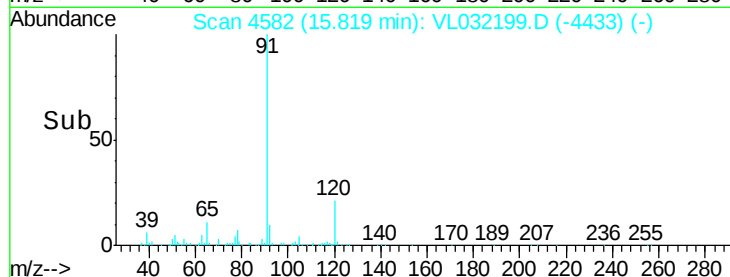
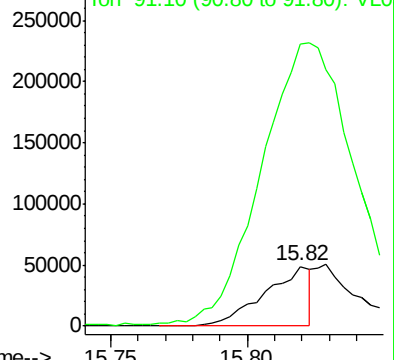
120 100

91 948.9 357.4 536.0#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.232 ppbv

RT: 17.02 min Scan# 4956

Delta R.T. -0.00 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

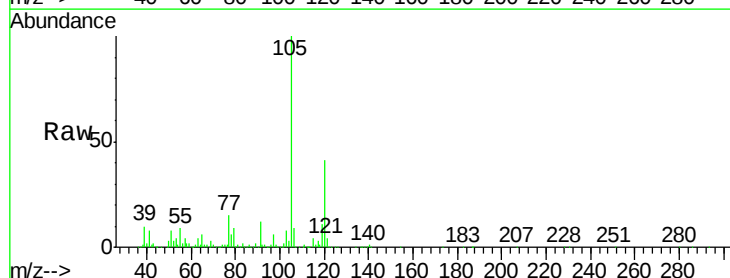
Tgt Ion:119 Resp: 125880

Ion Ratio Lower Upper

119 100

91 0.0 62.2 93.2#

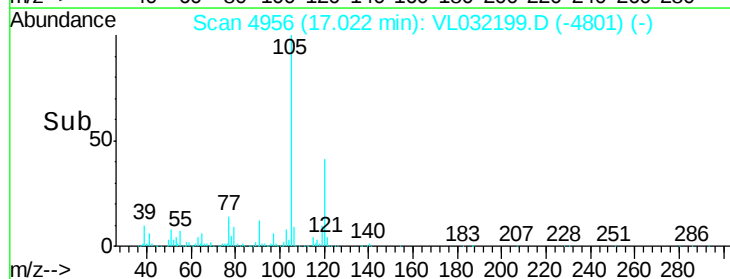
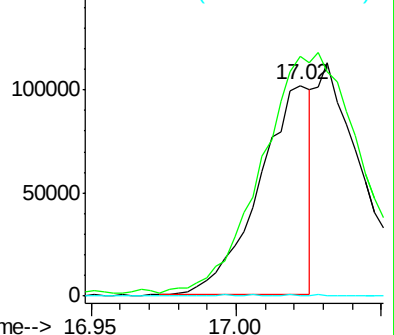
134 1.3 16.2 24.2#

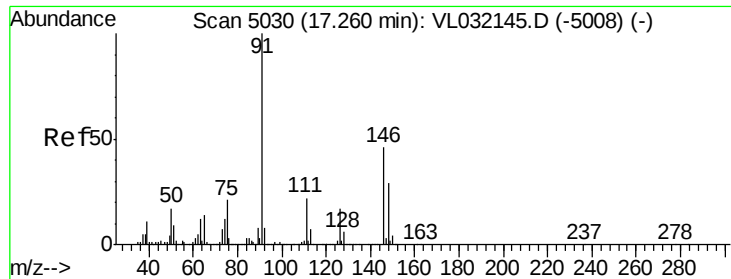


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#66

Benzyl Chloride

Concen: 0.099 ppbv

RT: 17.48 min Scan# 5097

Delta R.T. 0.20 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

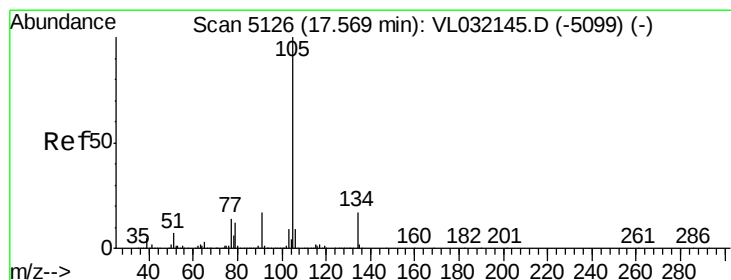
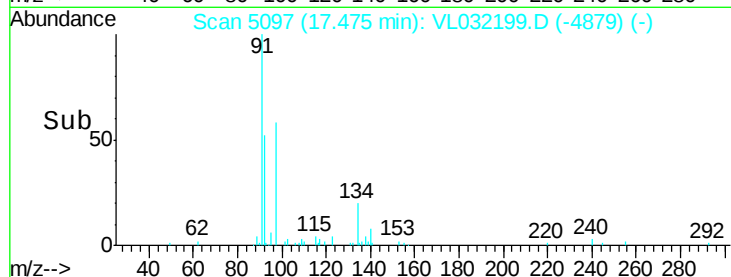
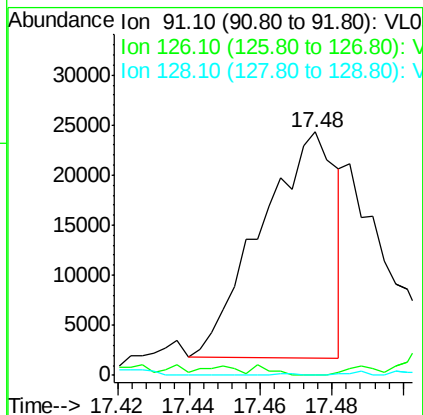
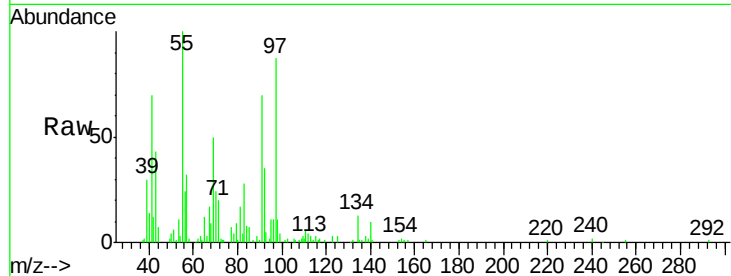
Tgt Ion: 91 Resp: 32986

Ion Ratio Lower Upper

91 100

126 7.5 15.7 23.5#

128 2.1 5.2 7.8#



#67

sec-Butylbenzene

Concen: 0.107 ppbv

RT: 17.56 min Scan# 5122

Delta R.T. -0.02 min

Lab File: VL032199.D

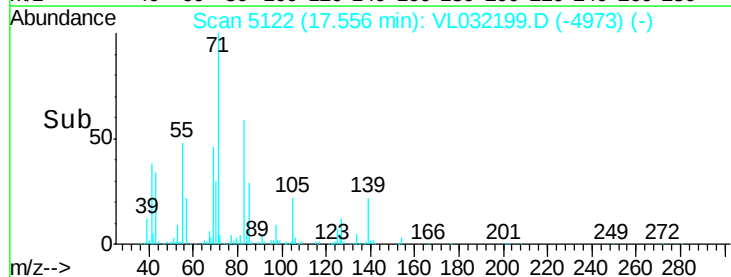
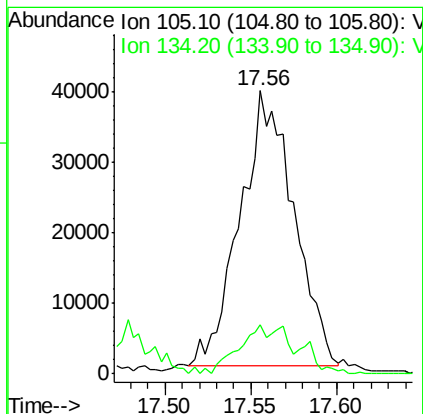
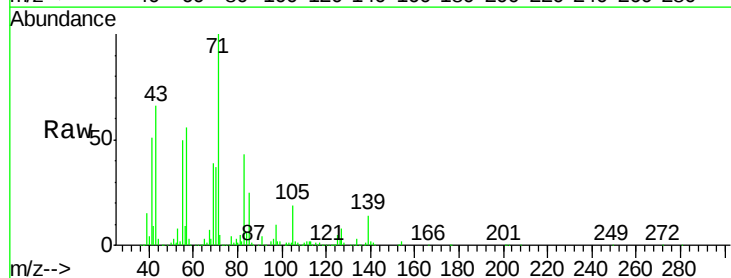
Acq: 3 Jul 2018 2:25

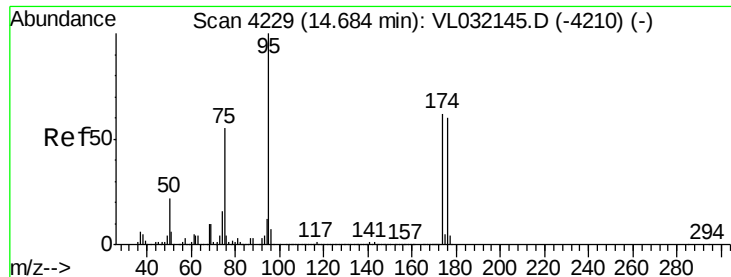
Tgt Ion: 105 Resp: 84575

Ion Ratio Lower Upper

105 100

134 19.3 14.7 22.1

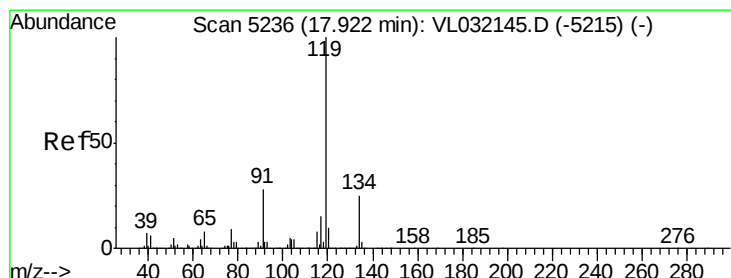
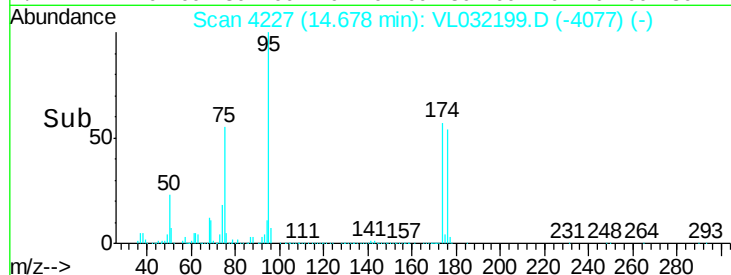
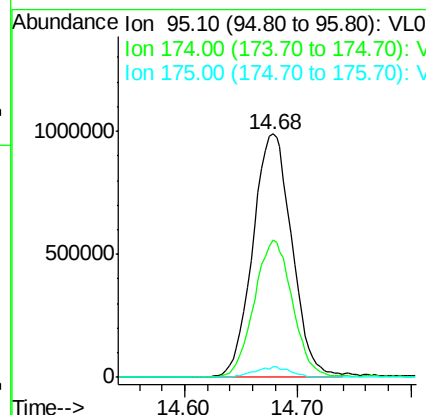
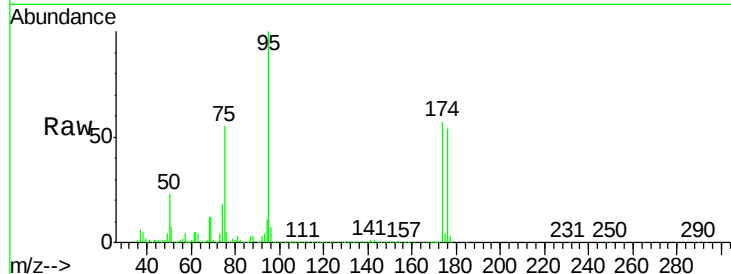




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.993 ppbv
 RT: 14.68 min Scan# 4227
 Delta R.T. -0.02 min
 Lab File: VL032199.D
 Acq: 3 Jul 2018 2:25

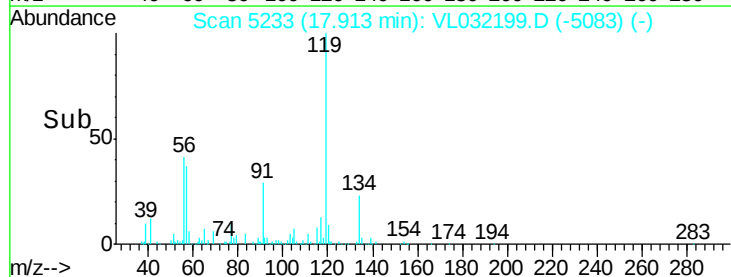
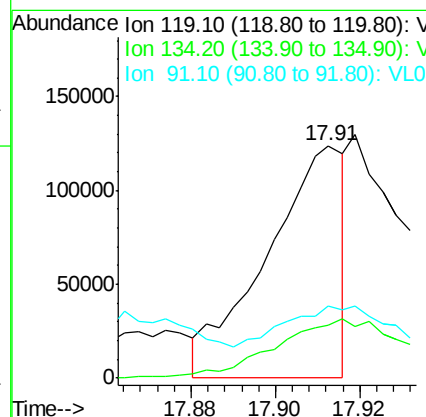
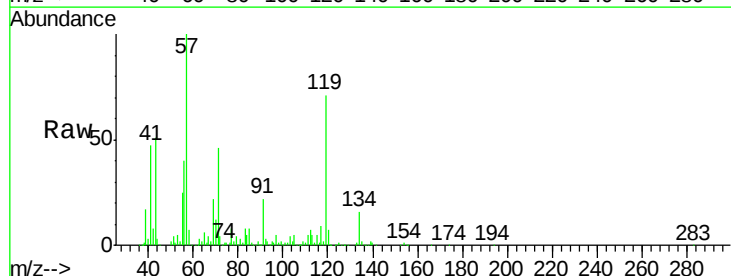
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2

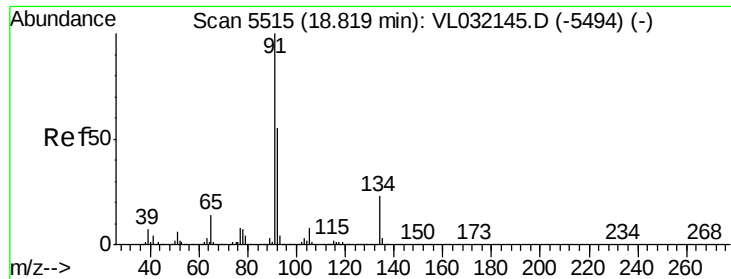
Tgt Ion: 95 Resp: 2377312
 Ion Ratio Lower Upper
 95 100
 174 56.0 52.1 78.1
 175 4.2 4.0 6.0



#69
 p-Isopropyltoluene
 Concen: 0.249 ppbv
 RT: 17.91 min Scan# 5233
 Delta R.T. -0.02 min
 Lab File: VL032199.D
 Acq: 3 Jul 2018 2:25

Tgt Ion: 119 Resp: 158275
 Ion Ratio Lower Upper
 119 100
 134 44.3 20.7 31.1#
 91 56.7 21.8 32.8#





#70

n-Butylbenzene

Concen: 0.053 ppbv

RT: 18.79 min Scan# 5505

Delta R.T. -0.04 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

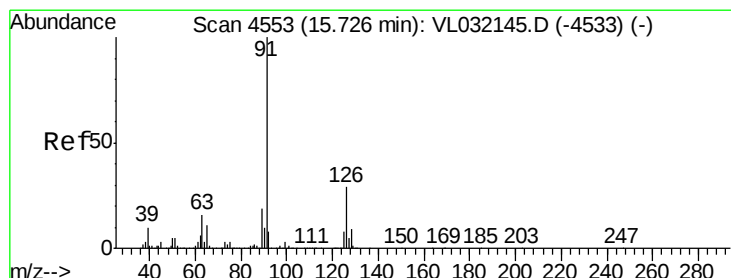
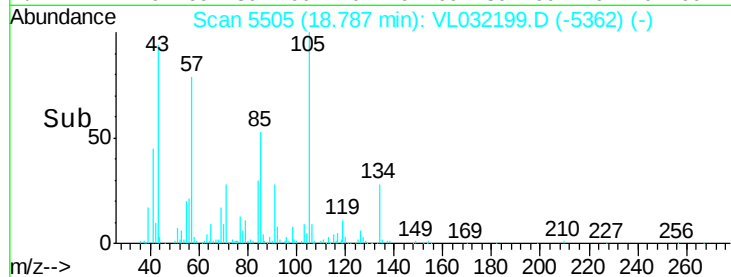
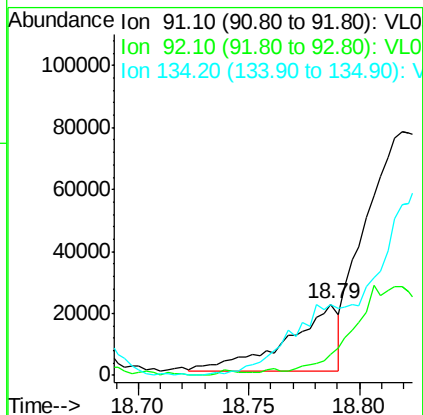
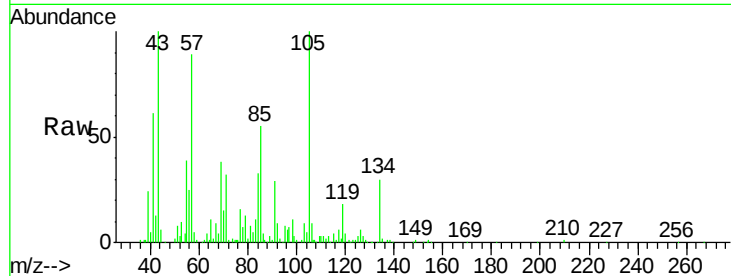
Tgt Ion: 91 Resp: 35374

Ion Ratio Lower Upper

91 100

92 0.0 43.7 65.5#

134 0.0 18.9 28.3#



#71

2-Chlorotoluene

Concen: 1.146 ppbv

RT: 15.82 min Scan# 4583

Delta R.T. 0.08 min

Lab File: VL032199.D

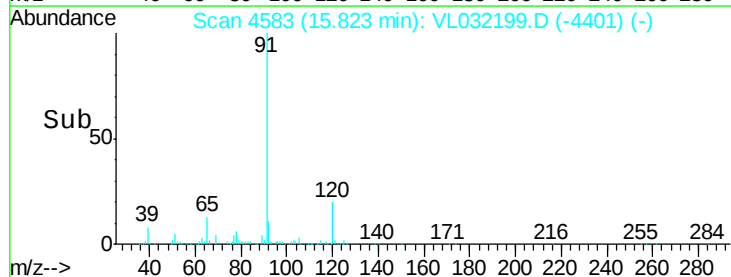
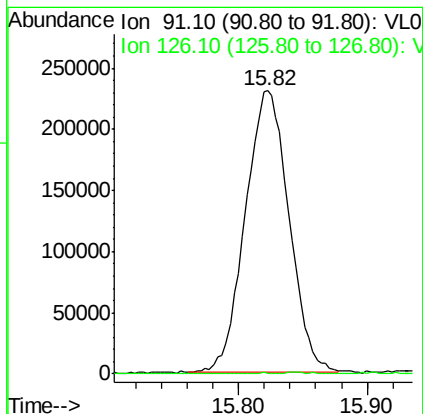
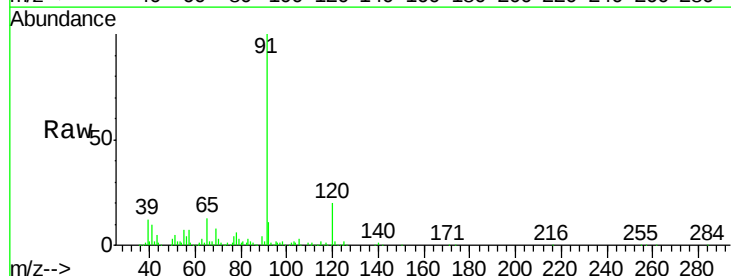
Acq: 3 Jul 2018 2:25

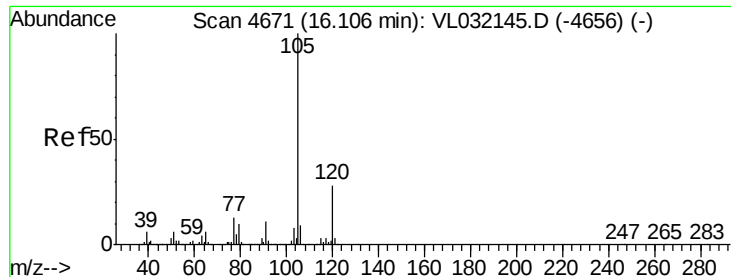
Tgt Ion: 91 Resp: 544032

Ion Ratio Lower Upper

91 100

126 0.6 12.8 51.0#





#72

4-Ethyltoluene

Concen: 1.089 ppbv

RT: 16.11 min Scan# 4671

Delta R.T. -0.01 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tgt Ion:105 Resp: 563754

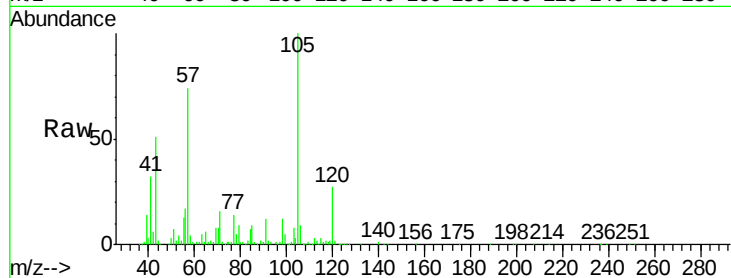
Ion Ratio Lower Upper

105 100

120 28.7 24.3 36.5

91 13.1 9.4 14.0

77 14.3 10.2 15.2

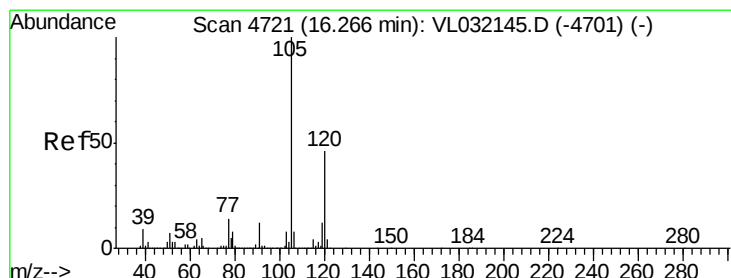
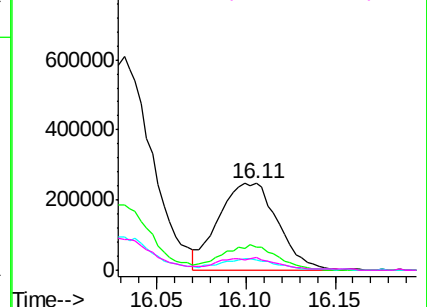
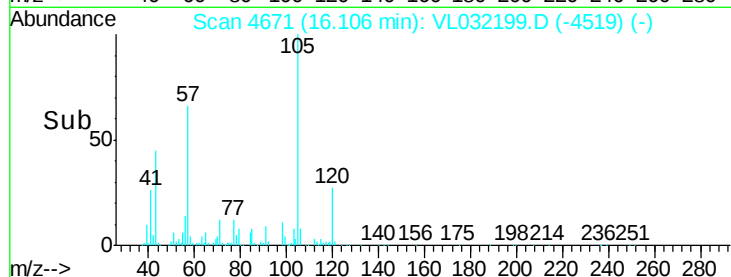


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 1.857 ppbv

RT: 16.26 min Scan# 4719

Delta R.T. -0.02 min

Lab File: VL032199.D

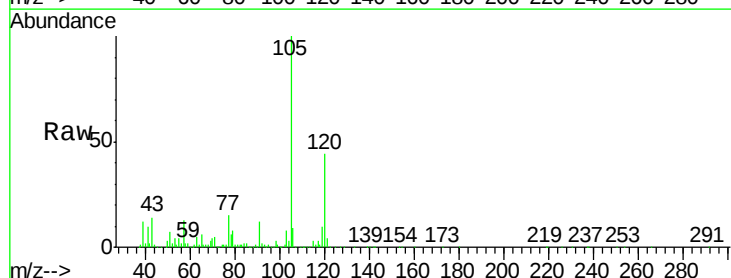
Acq: 3 Jul 2018 2:25

Tgt Ion:105 Resp: 906043

Ion Ratio Lower Upper

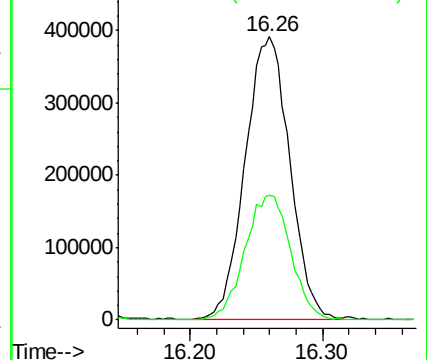
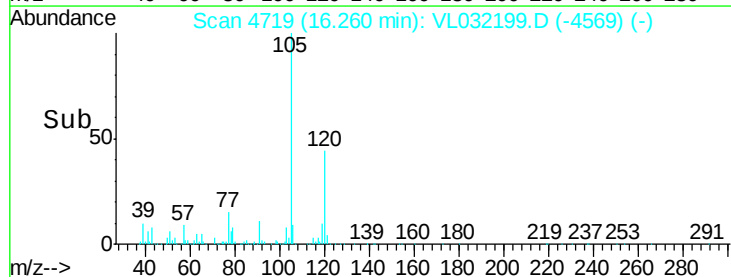
105 100

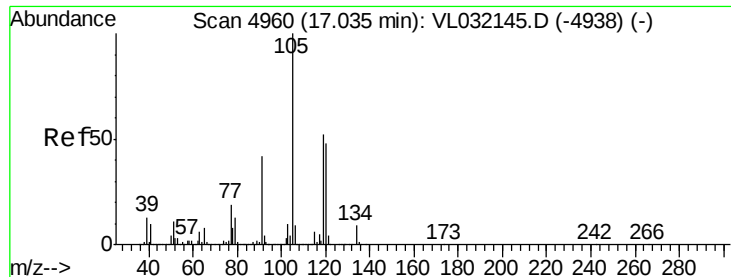
120 44.0 38.6 57.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 4.739 ppbv

RT: 17.03 min Scan# 4957

Delta R.T. -0.02 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tgt Ion:105 Resp: 2333442

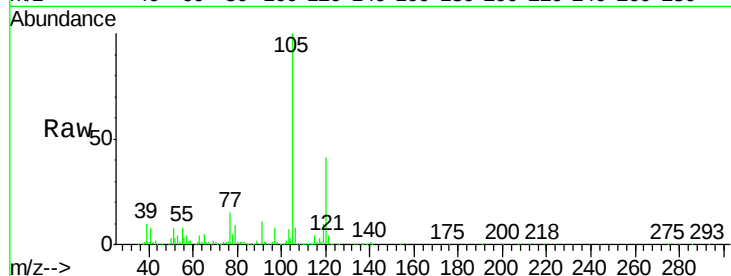
Ion Ratio Lower Upper

105 100

120 41.0 38.8 58.2

91 11.1 33.6 50.4#

77 14.5 16.0 24.0#

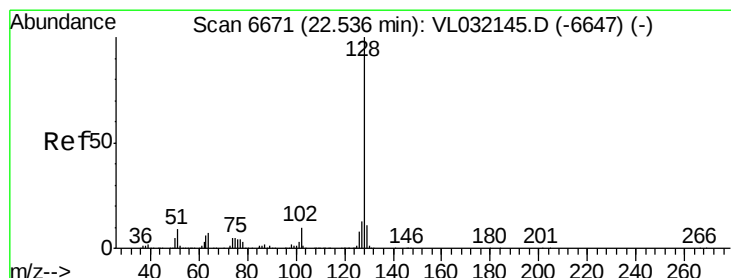
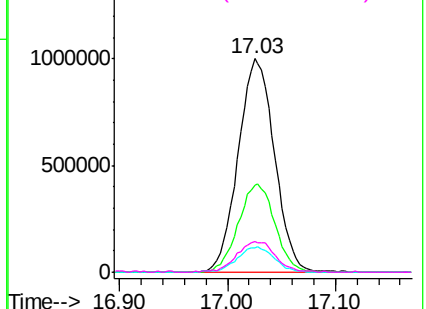
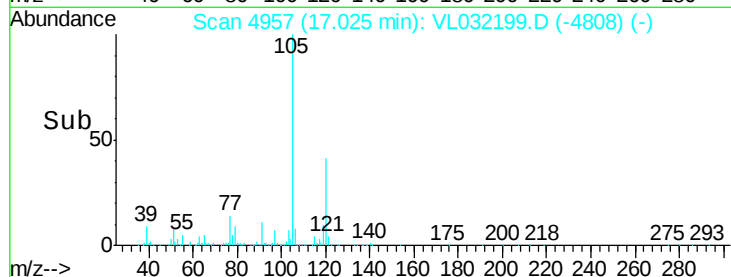


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#79

Naphthalene

Concen: 0.476 ppbv

RT: 22.53 min Scan# 6668

Delta R.T. -0.03 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

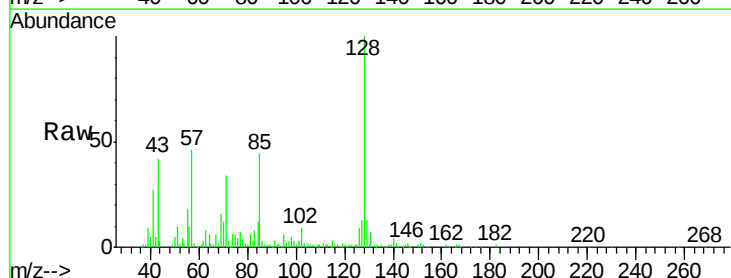
Tgt Ion:128 Resp: 213037

Ion Ratio Lower Upper

128 100

127 12.1 10.5 15.7

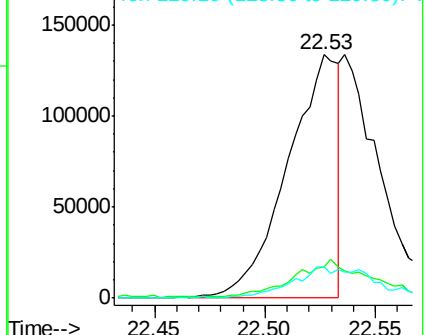
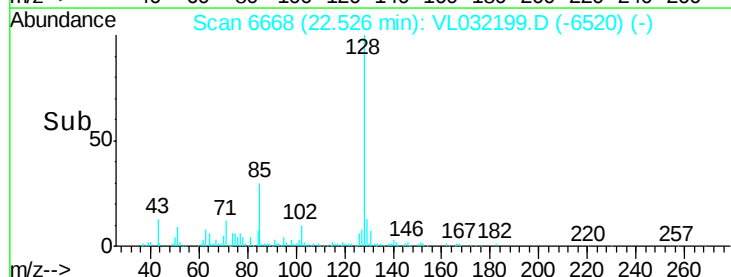
129 12.7 9.0 13.6

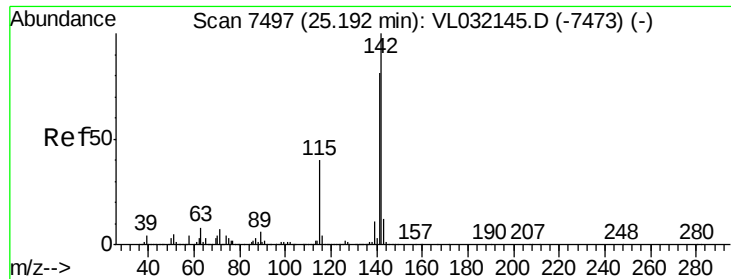


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.796 ppbv

RT: 25.19 min Scan# 7497

Delta R.T. -0.01 min

Lab File: VL032199.D

Acq: 3 Jul 2018 2:25

Instrument :

MSVOA_L

ClientSampleId :

SS-2

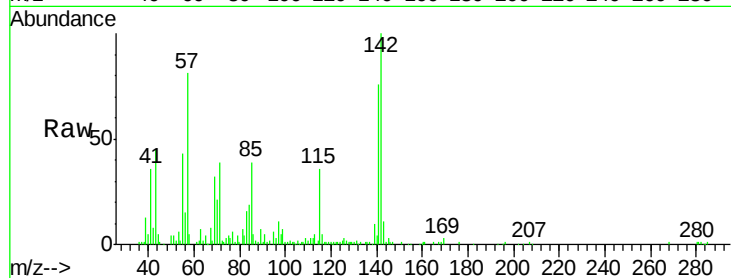
Tgt Ion:142 Resp: 128505

Ion Ratio Lower Upper

142 100

141 88.7 65.8 98.6

115 52.2 29.4 44.0#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

