

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070518\
 Data File : VL032212.D
 Acq On : 5 Jul 2018 20:45
 Operator : SY/AP
 Sample : J3867-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 539A

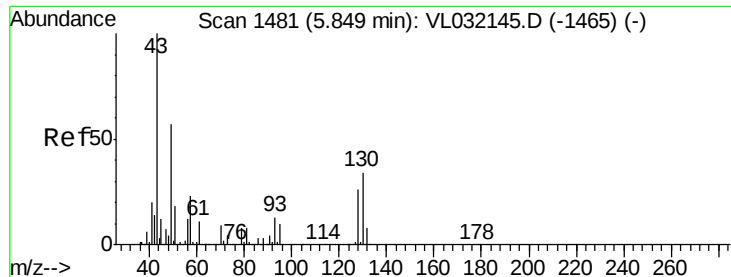
Quant Time: Jul 06 04:30:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1465733	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3755986	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3788187	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	2873859	9.92	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.13	85	33807	0.175	ppbv	93
3) Chlorodifluoromethane	3.07	51	95204	0.532	ppbv	96
4) Chloromethane	3.23	50	55159	0.577	ppbv	91
7) Chloroethane	3.66	64	2200	0.064	ppbv #	85
9) Propene	3.09	41	70316	0.842	ppbv	87
10) Heptane	8.34	43	65976	0.271	ppbv	95
11) Trichlorofluoromethane	4.07	101	71489	0.342	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.63	101	8760	0.063	ppbv	94
13) Ethanol	3.72	45	325332	12.857	ppbv	97
15) Acetone	3.96	43	1878914	10.963	ppbv	99
16) 1,3-Butadiene	3.40	39	7623	0.093	ppbv #	33
17) tert-Butyl alcohol	4.44	59	23047	0.211	ppbv #	73
19) Isopropyl Alcohol	4.10	45	175237	1.231	ppbv #	1
20) Methylene Chloride	4.48	84	379878	6.065	ppbv	94
21) Allyl Chloride	4.50	41	4110	0.035	ppbv #	1
23) Vinyl Acetate	5.22	43	152330	0.490	ppbv #	59
25) Ethyl Acetate	5.86	43	2089450	5.893	ppbv #	77
26) Hexane	5.86	57	3012780	18.451	ppbv #	45
27) Carbon Disulfide	4.69	76	82113	0.506	ppbv #	95
30) Cyclohexane	7.34	84	36841	0.239	ppbv #	84
34) 2-Butanone	5.41	43	259830	1.090	ppbv	100
35) Carbon Tetrachloride	7.23	117	18396	0.072	ppbv #	92
36) Benzene	7.09	78	133631	0.368	ppbv	98
38) Trichloroethene	8.05	130	66147	0.466	ppbv	97
39) 1,2-Dichloropropane	7.38	63	1035024	7.219	ppbv #	26
41) Tetrahydrofuran	6.51	42	23252	0.163	ppbv #	40
44) 2,2,4-Trimethylpentane	8.08	57	246069	0.387	ppbv #	78
50) 4-Methyl-2-Pentanone	8.97	43	12454	0.032	ppbv #	38
53) Toluene	10.04	91	478866	1.090	ppbv	100
58) Ethyl Benzene	12.96	91	157511	0.258	ppbv #	88
59) m/p-Xylene	13.24	91	87492	0.179	ppbv #	29
60) o-Xylene	13.95	91	205756	0.422	ppbv	93
65) tert-Butylbenzene	17.02	119	23410	0.035	ppbv #	1
72) 4-Ethyltoluene	16.10	105	89040	0.141	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.25	105	56312	0.095	ppbv	90
74) 1,2,4-Trimethylbenzene	17.02	105	316107	0.527	ppbv #	75
79) Naphthalene	22.53	128	34966	0.064	ppbv #	87
80) Naphthalene,2-methyl-	25.19	142	11059	0.056	ppbv #	79

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.02 min

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539A

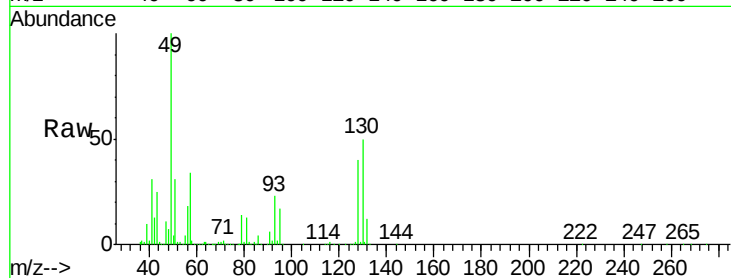
Tgt Ion: 49 Resp: 1465733

Ion Ratio Lower Upper

49 100

128 41.7 23.4 70.0

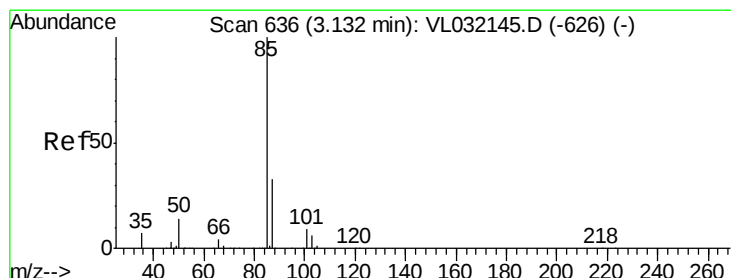
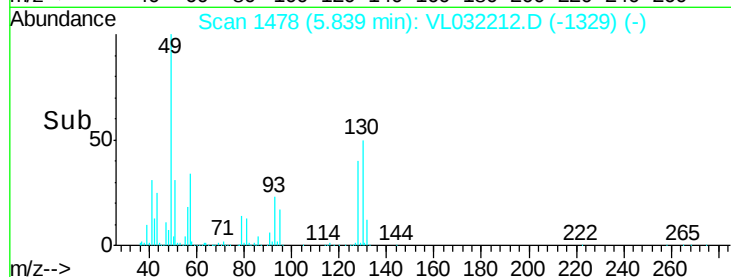
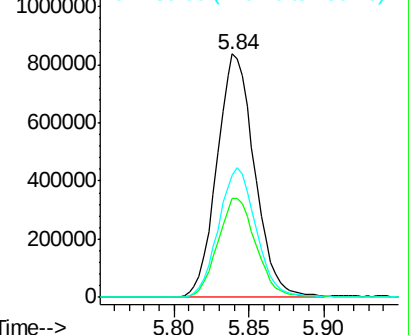
130 53.5 30.3 90.9



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: 0.175 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.01 min

Lab File: VL032212.D

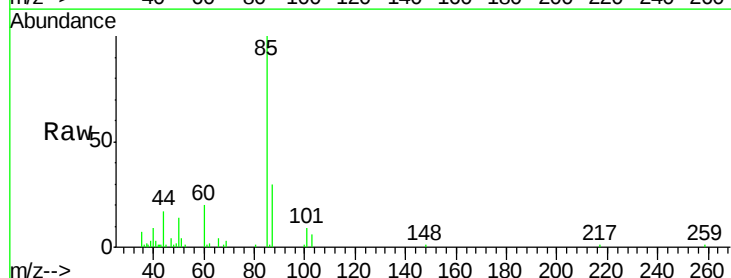
Acq: 5 Jul 2018 20:45

Tgt Ion: 85 Resp: 33807

Ion Ratio Lower Upper

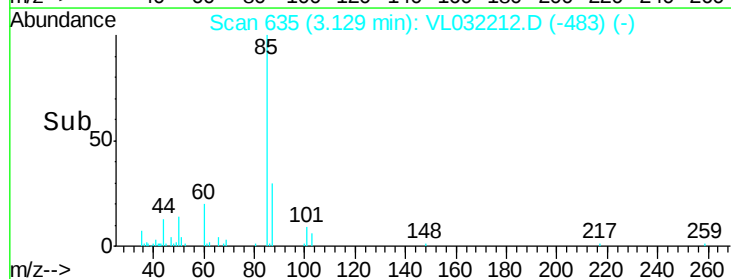
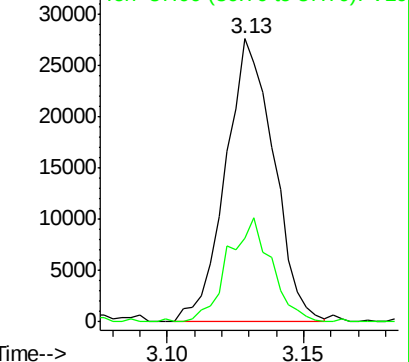
85 100

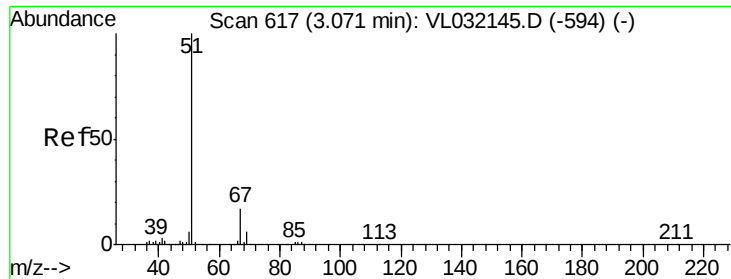
87 29.6 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.532 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Instrument :

MSVOA_L

ClientSampleId :

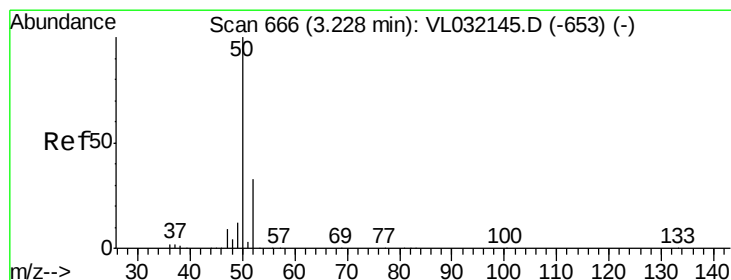
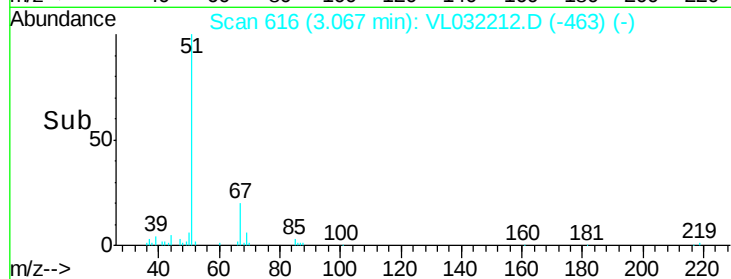
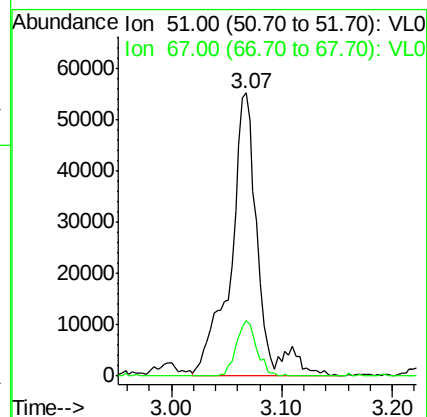
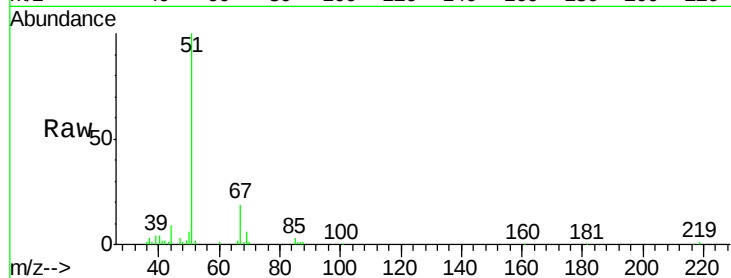
539A

Tgt Ion: 51 Resp: 95204

Ion Ratio Lower Upper

51 100

67 14.9 13.2 19.8



#4

Chloromethane

Concen: 0.577 ppbv

RT: 3.23 min Scan# 665

Delta R.T. -0.01 min

Lab File: VL032212.D

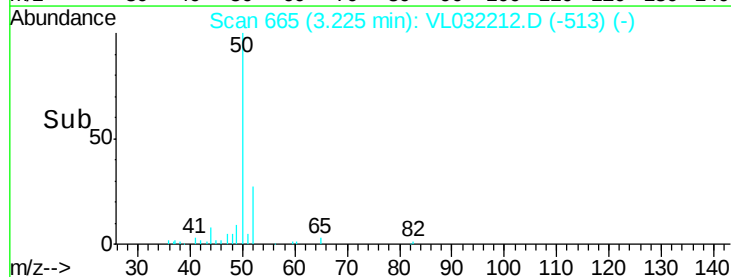
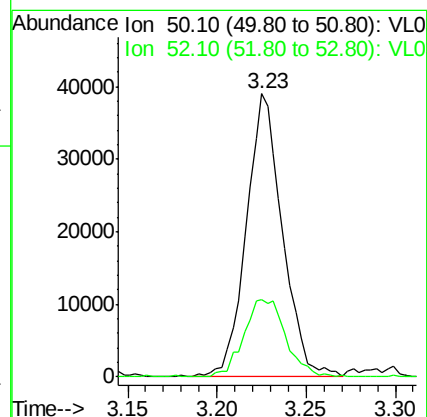
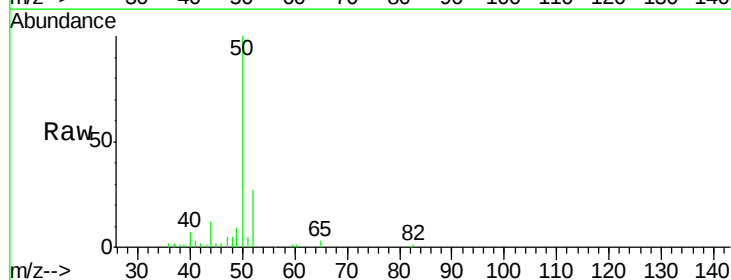
Acq: 5 Jul 2018 20:45

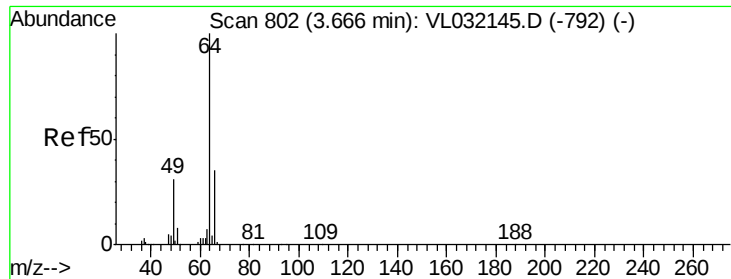
Tgt Ion: 50 Resp: 55159

Ion Ratio Lower Upper

50 100

52 27.5 26.0 39.0





#7

Chloroethane

Concen: 0.064 ppbv

RT: 3.66 min Scan# 800

Delta R.T. -0.01 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Instrument :

MSVOA_L

ClientSampleId :

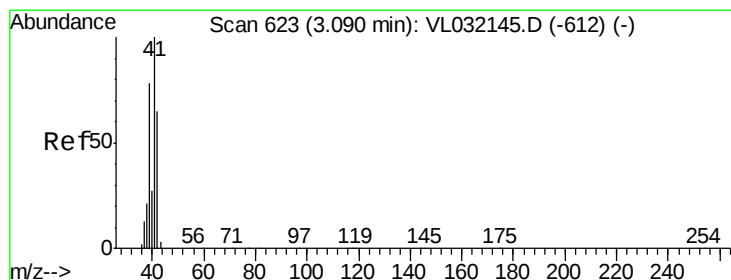
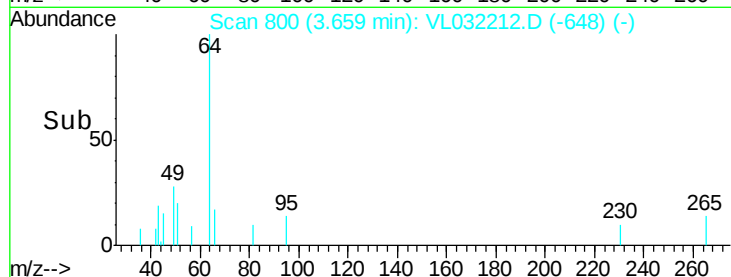
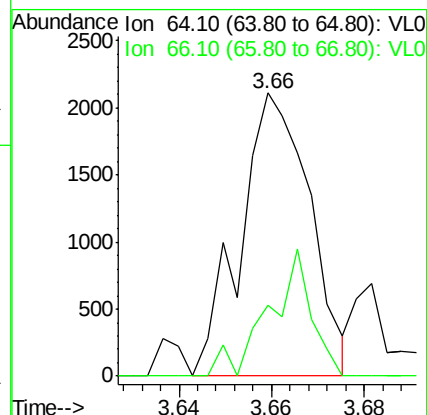
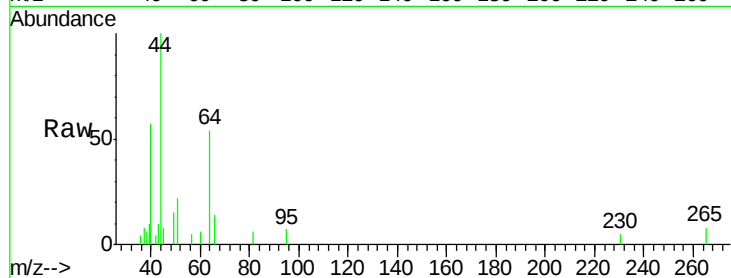
539A

Tgt Ion: 64 Resp: 2200

Ion Ratio Lower Upper

64 100

66 24.9 26.9 40.3#



#9

Propene

Concen: 0.842 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032212.D

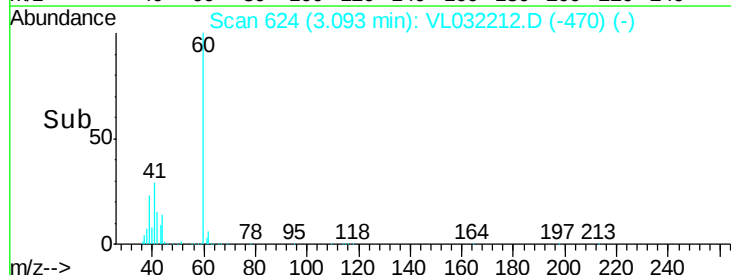
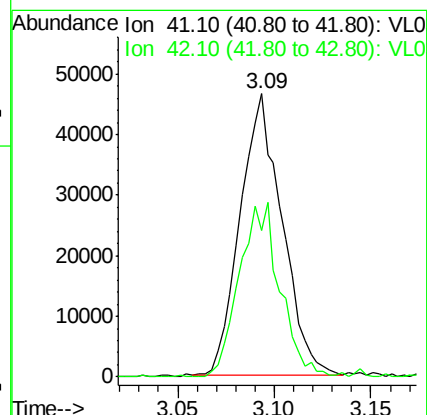
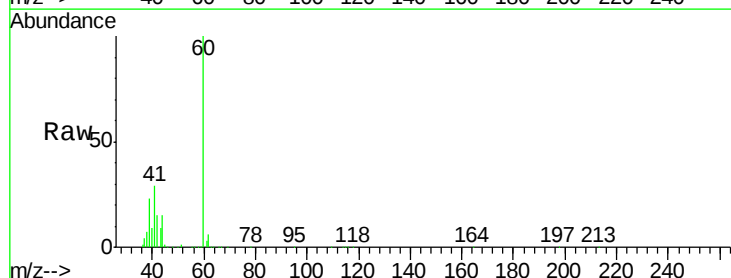
Acq: 5 Jul 2018 20:45

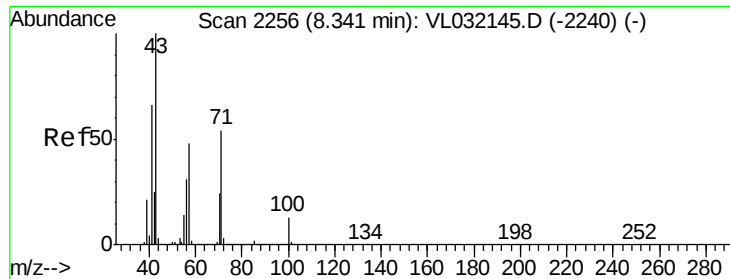
Tgt Ion: 41 Resp: 70316

Ion Ratio Lower Upper

41 100

42 60.0 56.2 84.4





#10

Heptane

Concen: 0.271 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Instrument :

MSVOA_L

ClientSampleId :

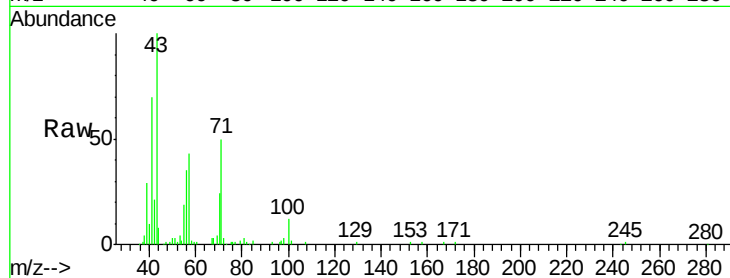
539A

Tgt Ion: 43 Resp: 65976

Ion Ratio Lower Upper

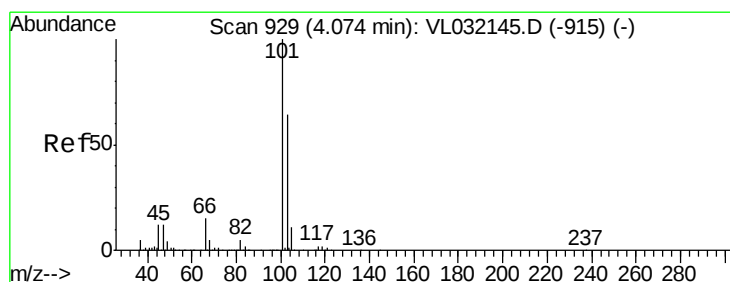
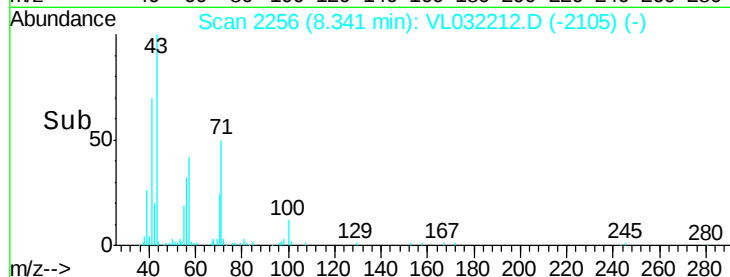
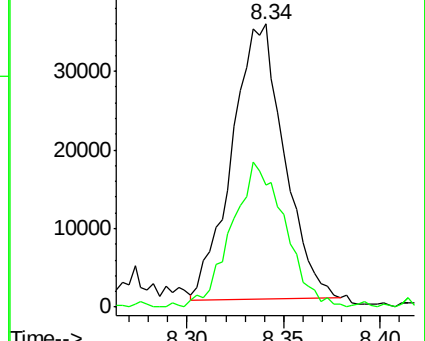
43 100

57 53.5 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.342 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032212.D

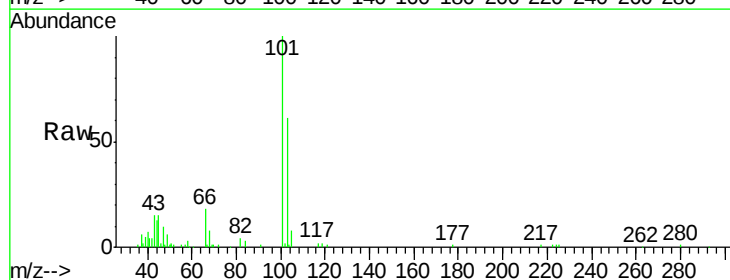
Acq: 5 Jul 2018 20:45

Tgt Ion: 101 Resp: 71489

Ion Ratio Lower Upper

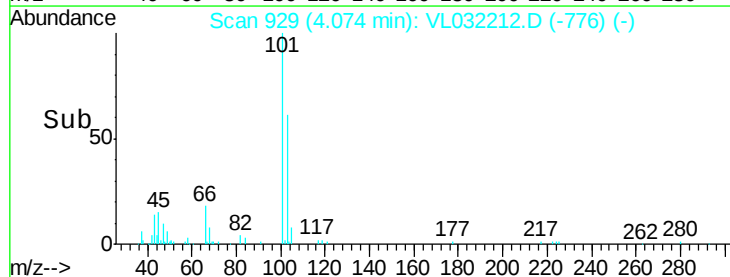
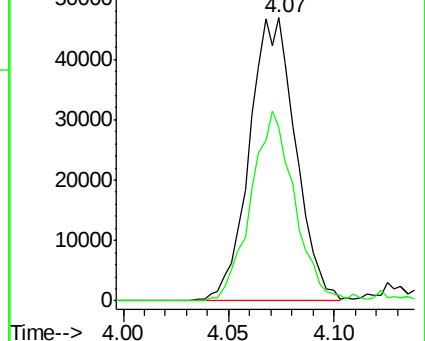
101 100

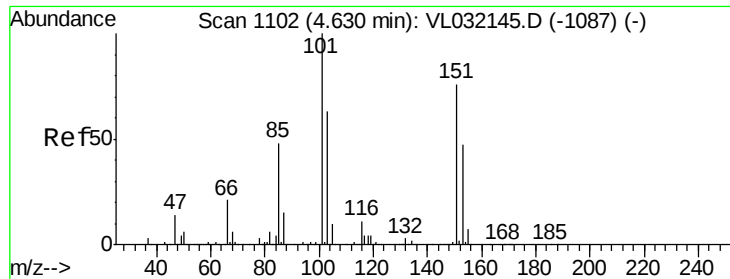
103 61.3 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.063 ppbv

RT: 4.63 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Instrument :

MSVOA_L

ClientSampleId :

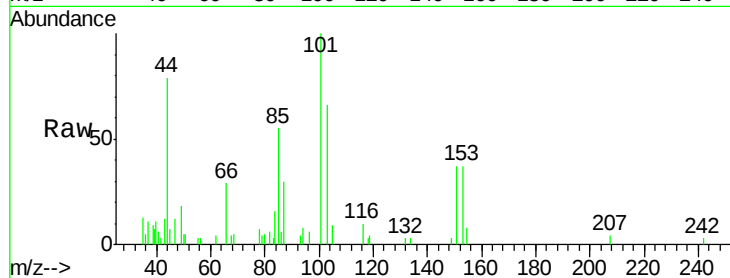
539A

Tgt Ion:101 Resp: 8760

Ion Ratio Lower Upper

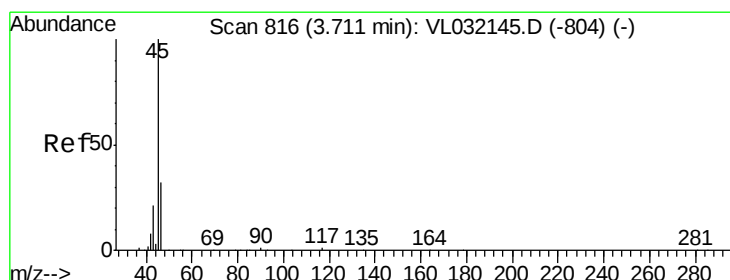
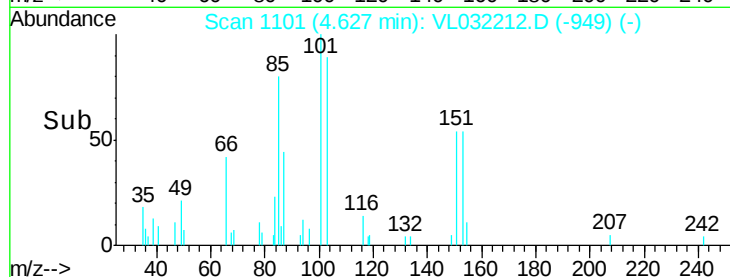
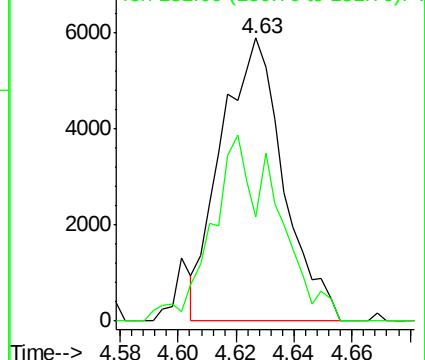
101 100

151 68.6 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 12.857 ppbv

RT: 3.72 min Scan# 818

Delta R.T. -0.01 min

Lab File: VL032212.D

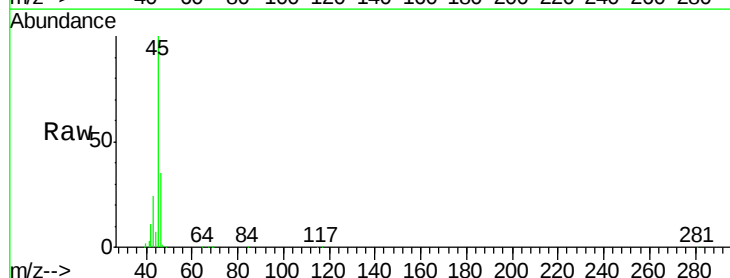
Acq: 5 Jul 2018 20:45

Tgt Ion: 45 Resp: 325332

Ion Ratio Lower Upper

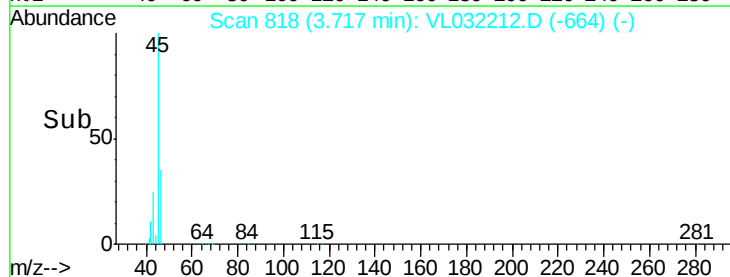
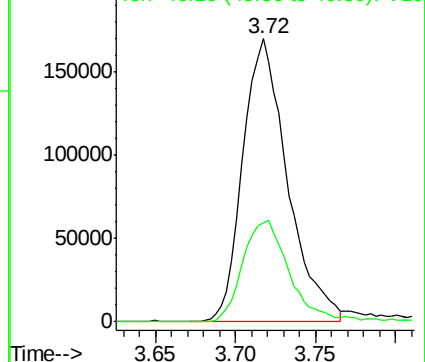
45 100

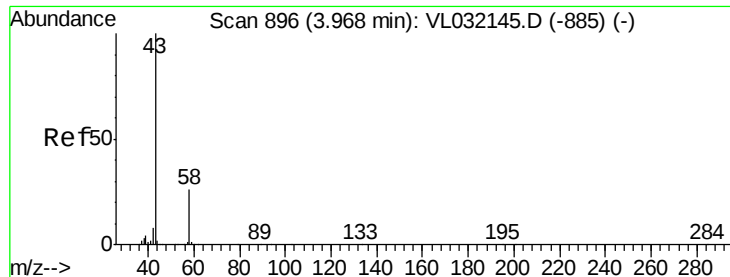
46 38.5 14.6 58.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 10.963 ppbv

RT: 3.96 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Instrument :

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ClientSampleId :

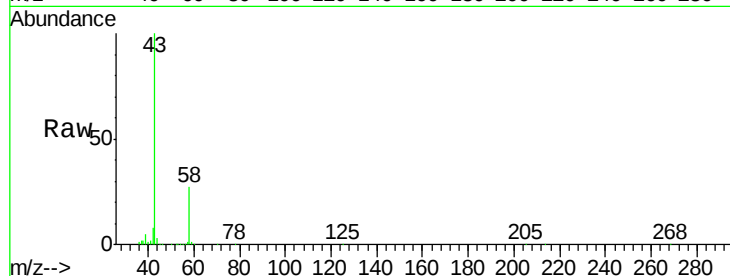
539A

Tgt Ion: 43 Resp: 1878914

Ion Ratio Lower Upper

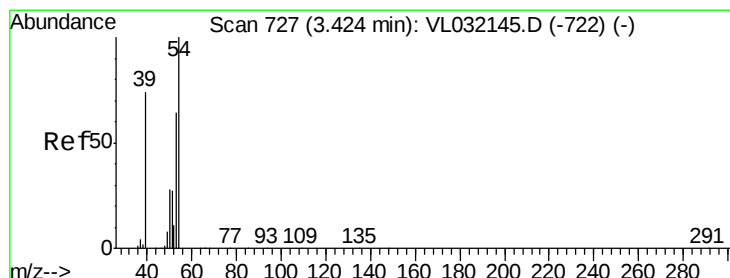
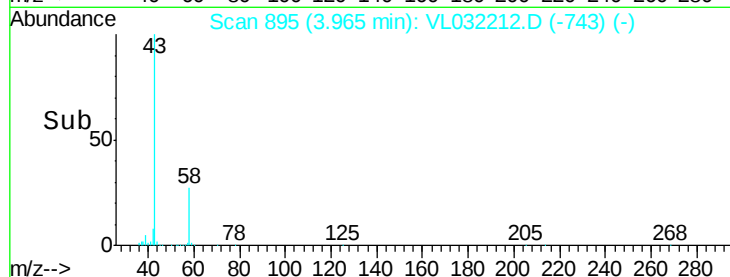
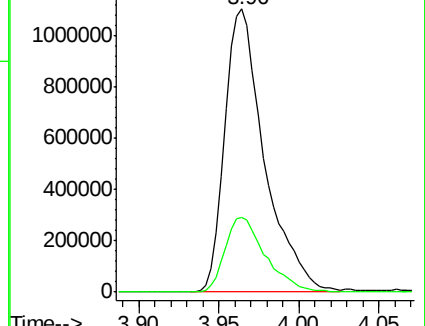
43 100

58 27.0 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: 0.093 ppbv

RT: 3.40 min Scan# 720

Delta R.T. -0.03 min

Lab File: VL032212.D

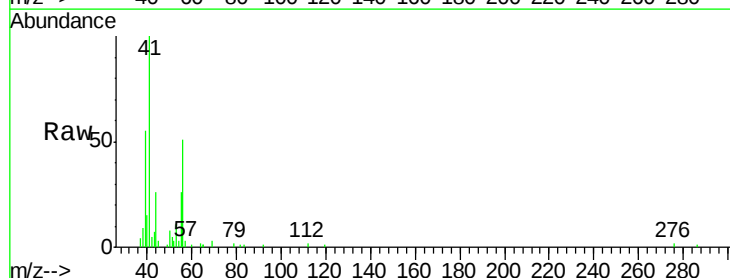
Acq: 5 Jul 2018 20:45

Tgt Ion: 39 Resp: 7623

Ion Ratio Lower Upper

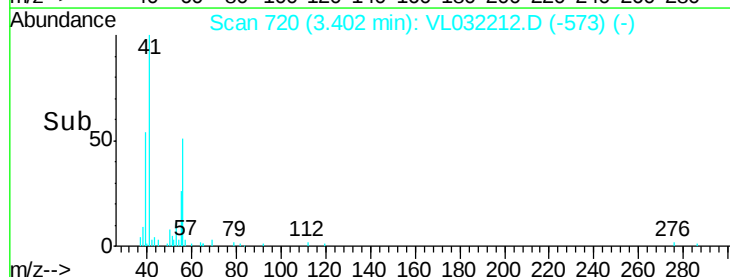
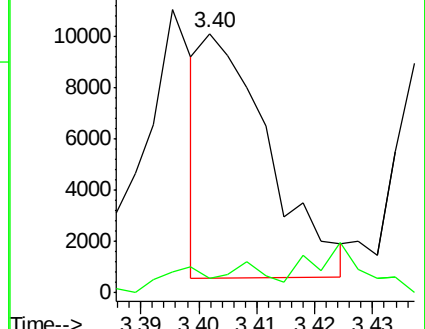
39 100

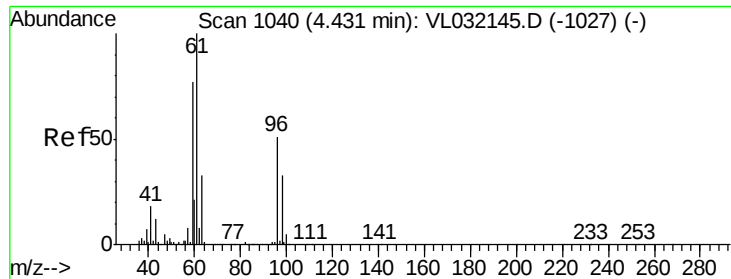
54 30.1 75.8 113.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

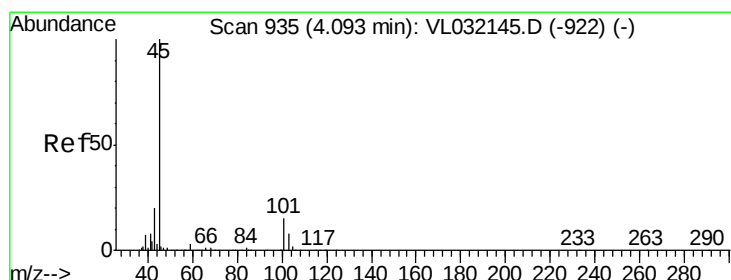
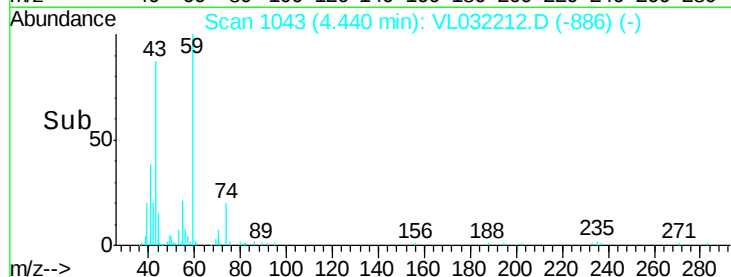
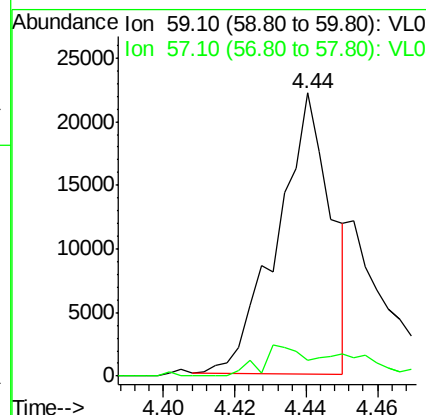
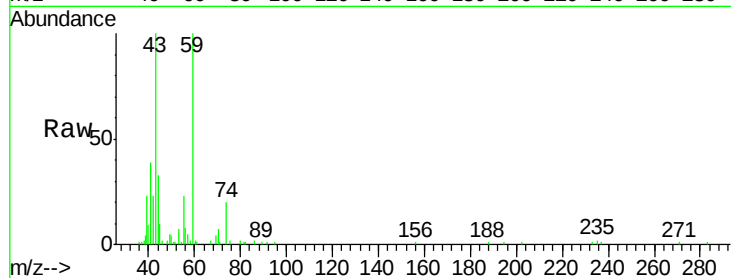




#17
tert-Butyl alcohol
Concen: 0.211 ppbv
RT: 4.44 min Scan# 1043
Delta R.T. 0.00 min
Lab File: VL032212.D
Acq: 5 Jul 2018 20:45

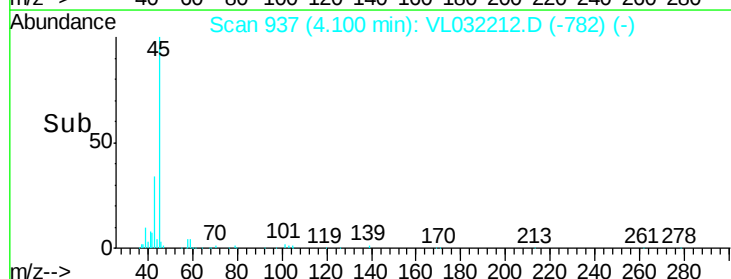
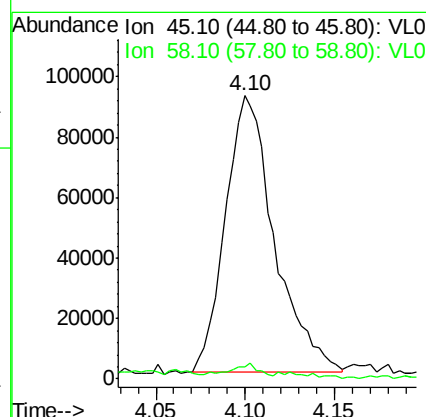
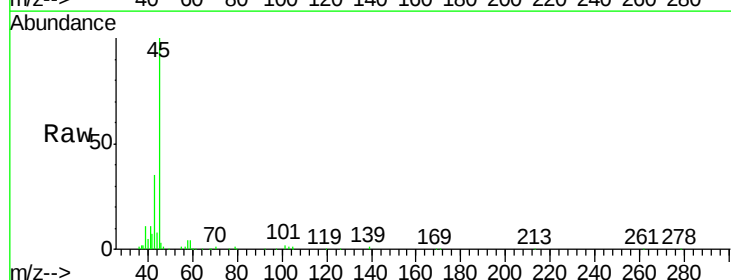
Instrument :
MSVOA_L
ClientSampleId :
539A

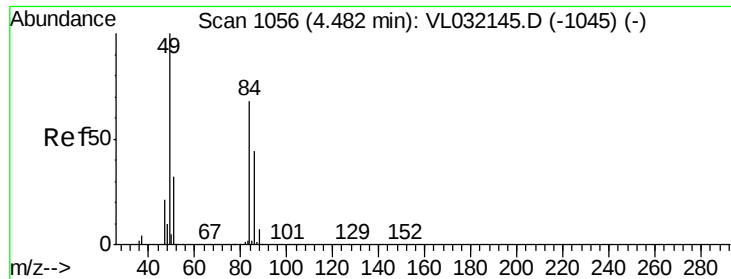
Tgt Ion: 59 Resp: 23047
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#19
Isopropyl Alcohol
Concen: 1.231 ppbv
RT: 4.10 min Scan# 937
Delta R.T. -0.00 min
Lab File: VL032212.D
Acq: 5 Jul 2018 20:45

Tgt Ion: 45 Resp: 175237
Ion Ratio Lower Upper
45 100
58 289.2 29.4 44.0#

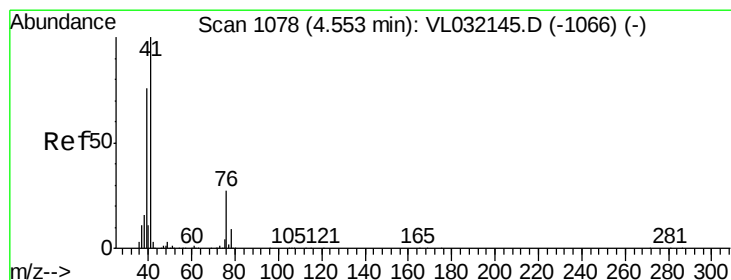
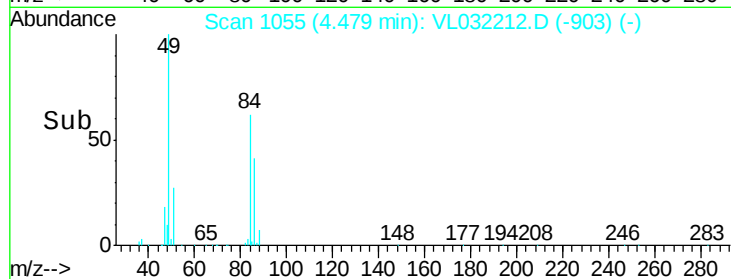
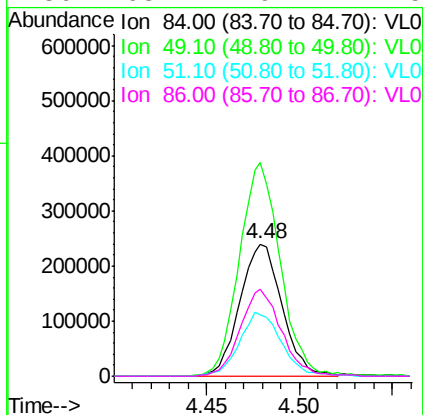
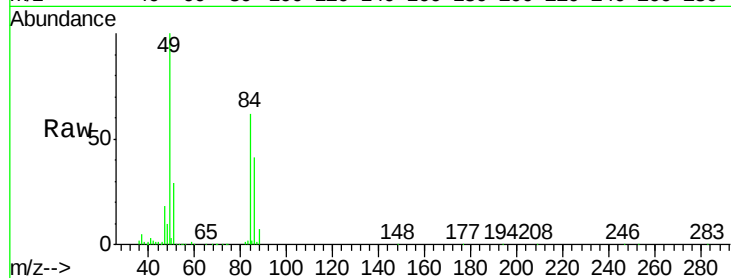




#20
Methylene Chloride
Concen: 6.065 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. -0.01 min
Lab File: VL032212.D
Acq: 5 Jul 2018 20:45

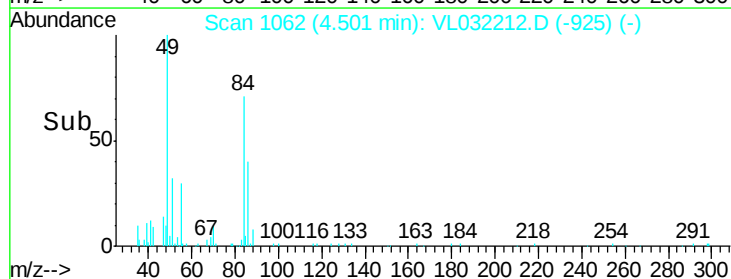
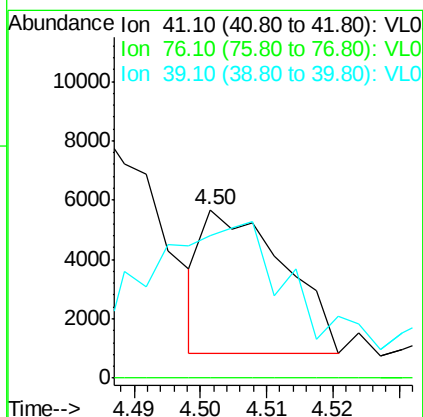
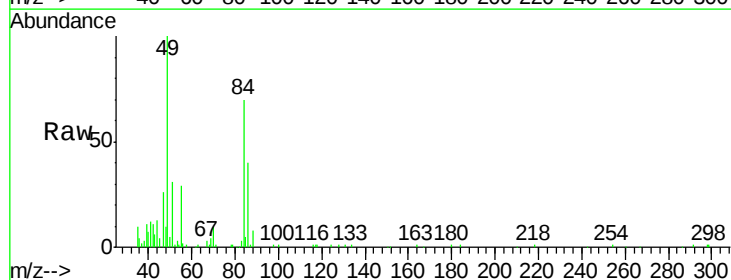
Instrument :
MSVOA_L
ClientSampled :
539A

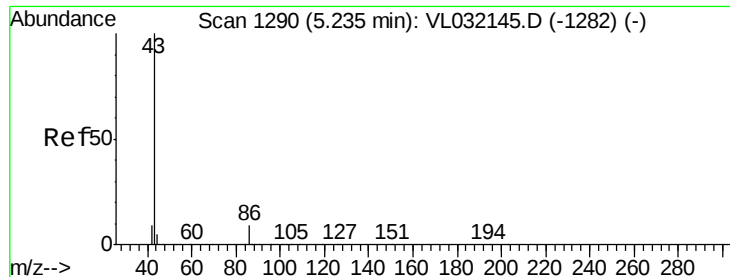
Tgt Ion: 84 Resp: 379878
Ion Ratio Lower Upper
84 100
49 160.9 119.6 179.4
51 45.9 36.3 54.5
86 65.2 49.7 74.5



#21
Allyl Chloride
Concen: 0.035 ppbv
RT: 4.50 min Scan# 1062
Delta R.T. -0.06 min
Lab File: VL032212.D
Acq: 5 Jul 2018 20:45

Tgt Ion: 41 Resp: 4110
Ion Ratio Lower Upper
41 100
76 0.0 22.5 33.7#
39 252.9 60.5 90.7#

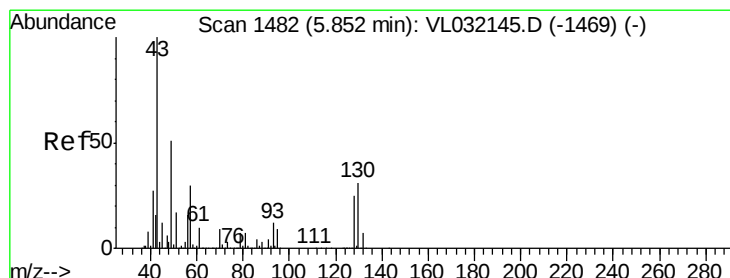
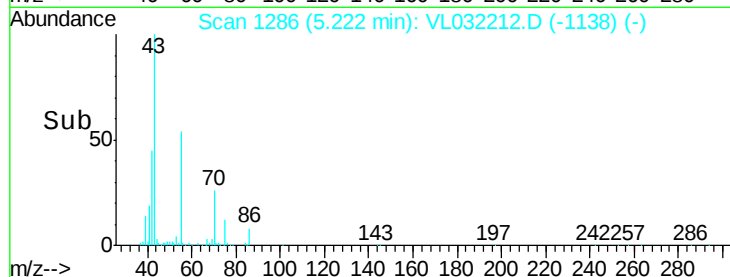
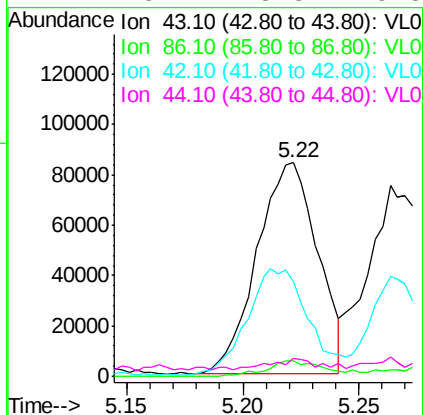
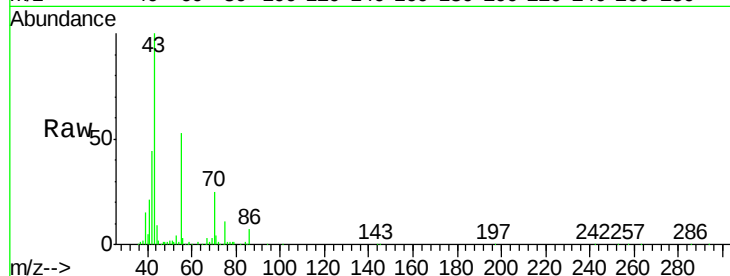




#23
 Vinyl Acetate
 Concen: 0.490 ppbv
 RT: 5.22 min Scan# 1286
 Delta R.T. -0.03 min
 Lab File: VL032212.D
 Acq: 5 Jul 2018 20:45

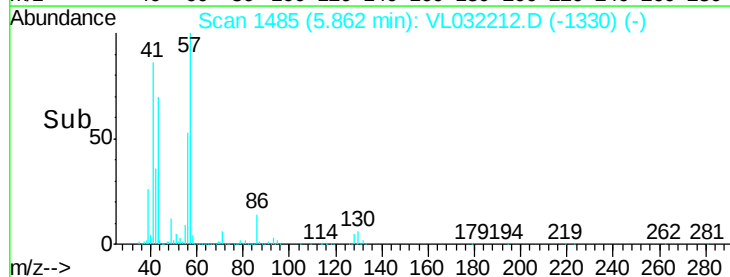
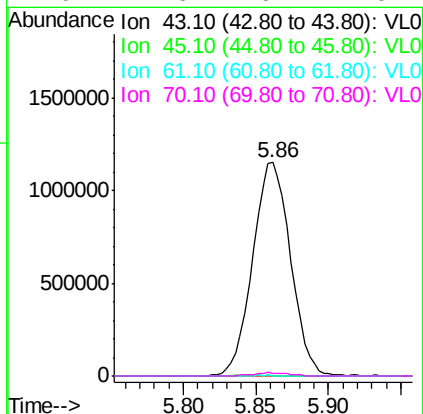
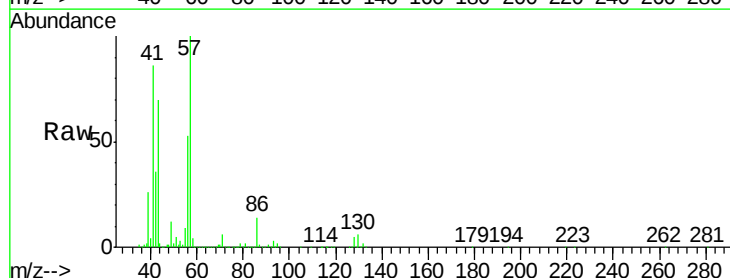
Instrument :
 MSVOA_L
 ClientSampleId :
 539A

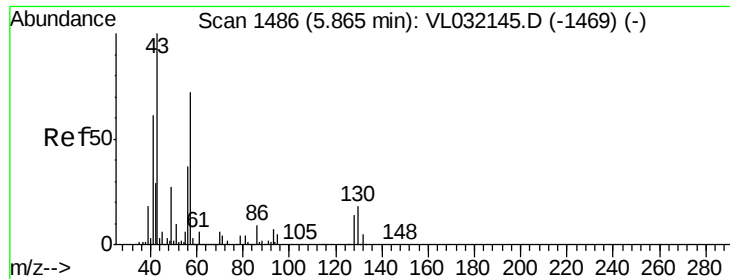
Tgt Ion:	43	Resp:	152330
Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.2	9.4
42	44.0	6.9	10.3#
44	5.7	3.8	5.8



#25
 Ethyl Acetate
 Concen: 5.893 ppbv
 RT: 5.86 min Scan# 1485
 Delta R.T. -0.00 min
 Lab File: VL032212.D
 Acq: 5 Jul 2018 20:45

Tgt Ion:	43	Resp:	2089450
Ion	Ratio	Lower	Upper
43	100		
45	0.5	7.8	11.8#
61	0.4	7.4	11.0#
70	1.6	6.1	9.1#



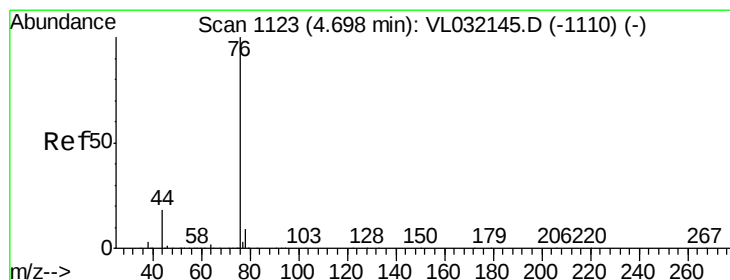
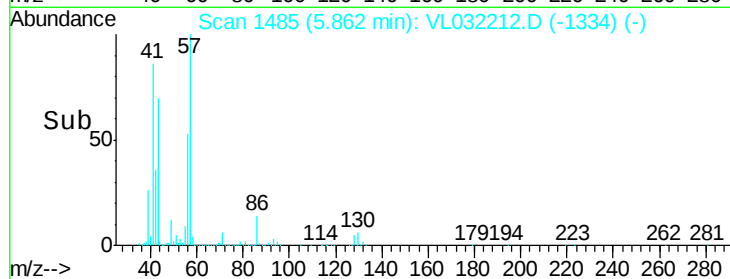
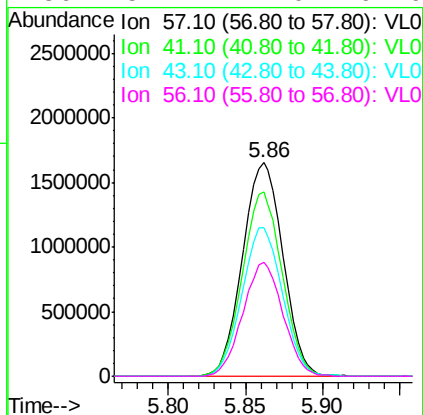
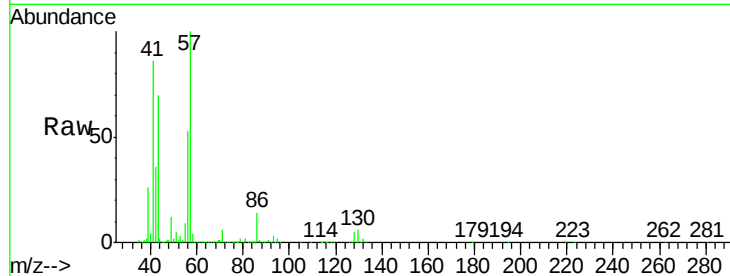


#26
Hexane
Concen: 18.451 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032212.D
Acq: 5 Jul 2018 20:45

Instrument :
MSVOA_L
ClientSampleId :
539A

Tgt Ion: 57 Resp: 3012780

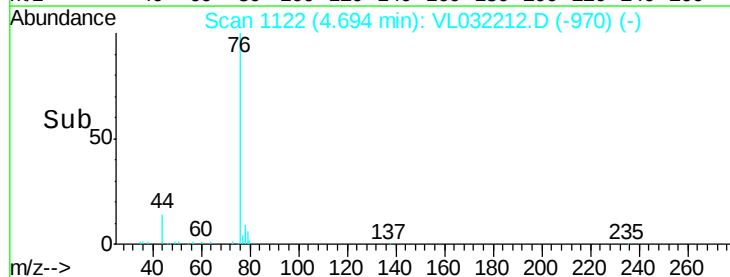
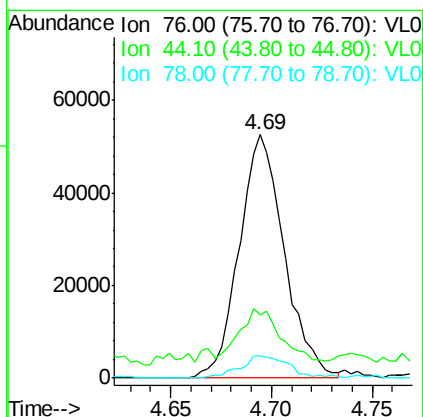
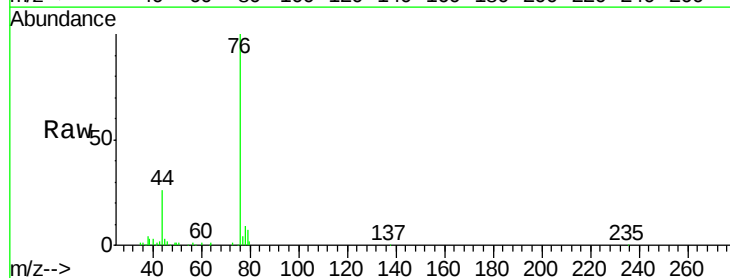
Ion	Ratio	Lower	Upper
57	100		
41	85.5	68.6	103.0
43	69.8	168.6	252.8#
56	52.7	41.0	61.6

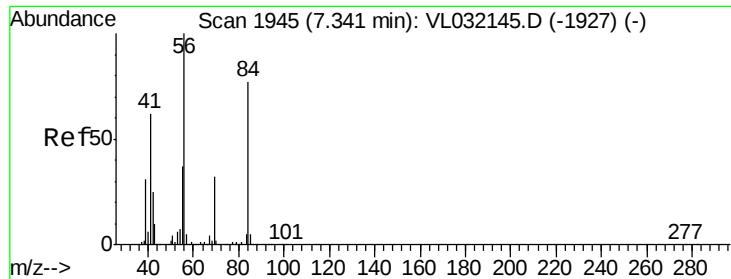


#27
Carbon Disulfide
Concen: 0.506 ppbv
RT: 4.69 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VL032212.D
Acq: 5 Jul 2018 20:45

Tgt Ion: 76 Resp: 82113

Ion	Ratio	Lower	Upper
76	100		
44	21.1	15.1	22.7
78	10.9	7.2	10.8#

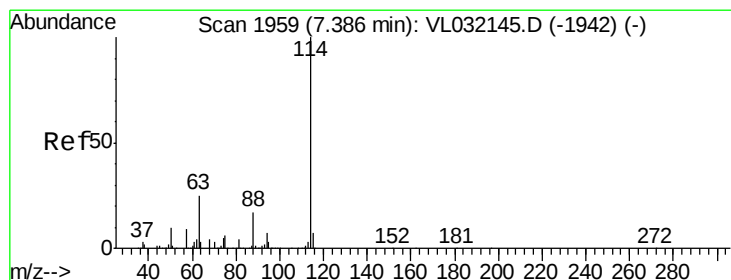
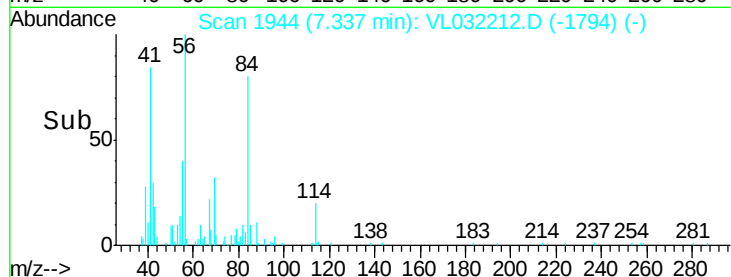
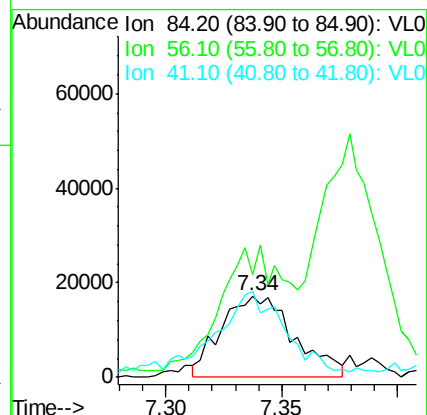
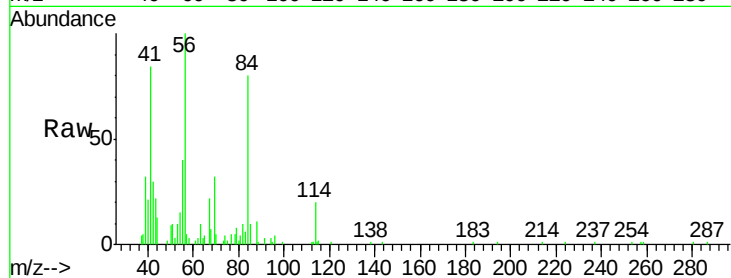




#30
Cyclohexane
Concen: 0.239 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.02 min
Lab File: VL032212.D
Acq: 5 Jul 2018 20:45

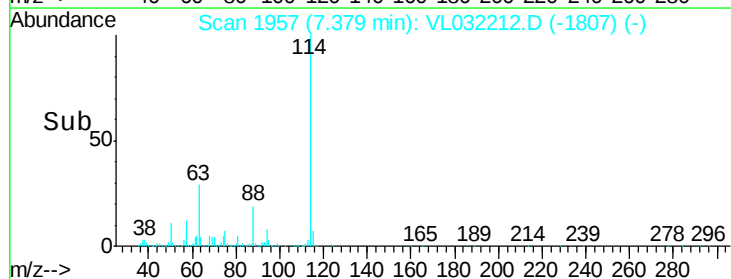
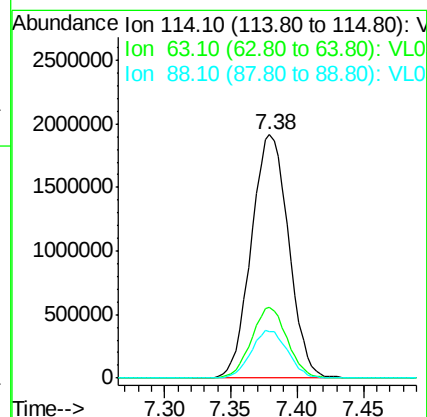
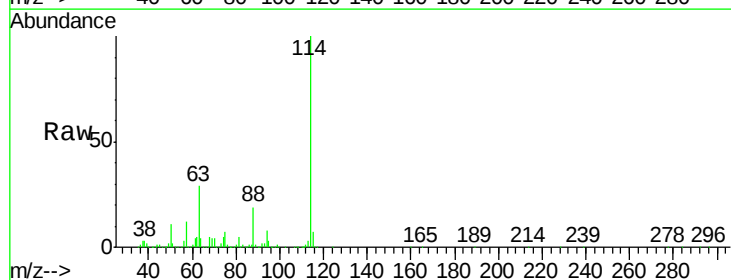
Instrument :
MSVOA_L
ClientSampleId :
539A

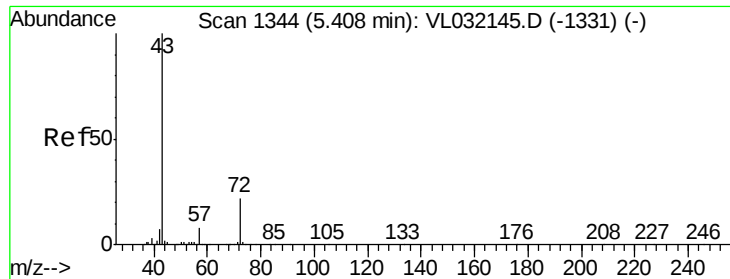
Tgt Ion: 84 Resp: 36841
Ion Ratio Lower Upper
84 100
56 153.4 109.1 163.7
41 98.4 64.6 96.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.38 min Scan# 1957
Delta R.T. -0.02 min
Lab File: VL032212.D
Acq: 5 Jul 2018 20:45

Tgt Ion: 114 Resp: 3755986
Ion Ratio Lower Upper
114 100
63 28.0 19.1 28.7
88 19.1 13.9 20.9

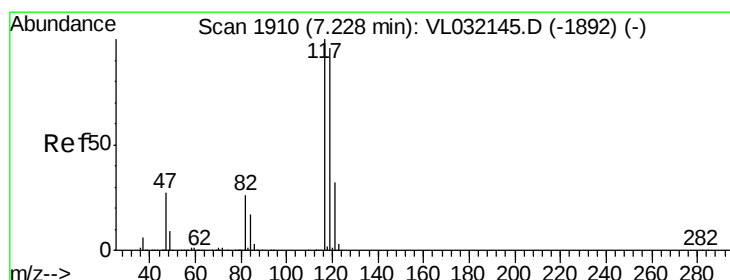
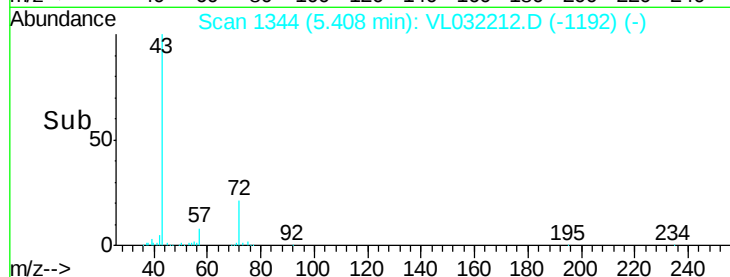
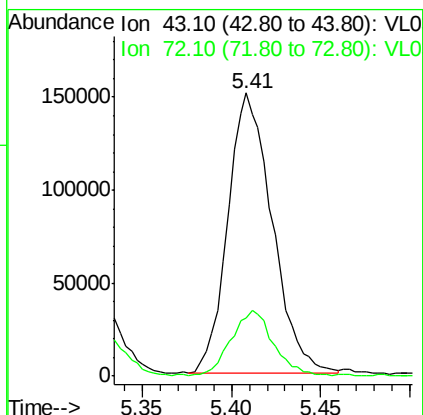
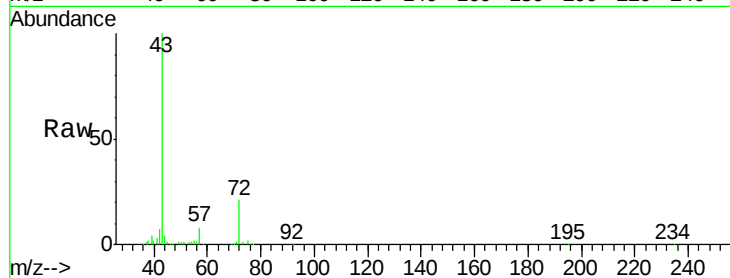




#34
2-Butanone
Concen: 1.090 ppbv
RT: 5.41 min Scan# 1344
Delta R.T. -0.01 min
Lab File: VL032212.D
Acq: 5 Jul 2018 20:45

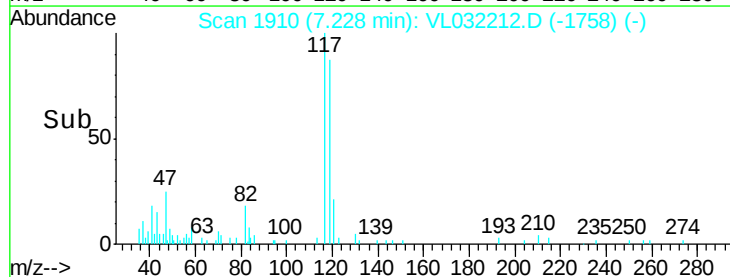
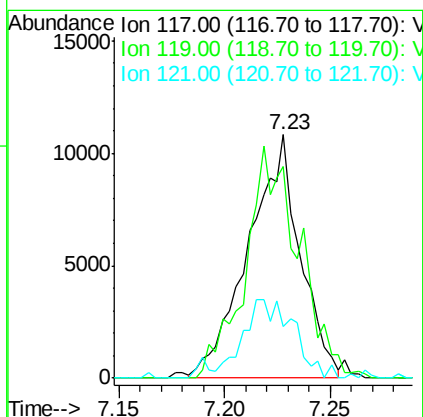
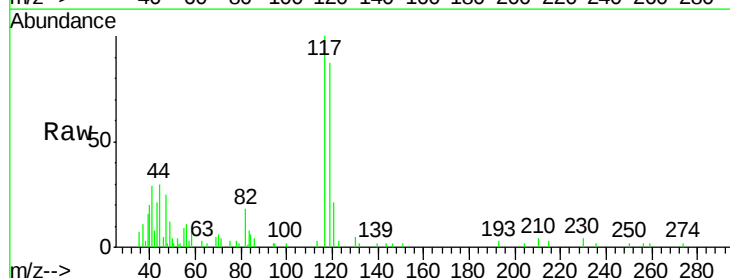
Instrument :
MSVOA_L
ClientSampleId :
539A

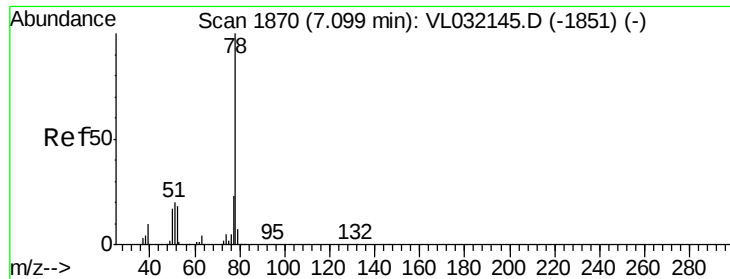
Tgt Ion: 43 Resp: 259830
Ion Ratio Lower Upper
43 100
72 23.2 18.4 27.6



#35
Carbon Tetrachloride
Concen: 0.072 ppbv
RT: 7.23 min Scan# 1910
Delta R.T. -0.01 min
Lab File: VL032212.D
Acq: 5 Jul 2018 20:45

Tgt Ion: 117 Resp: 18396
Ion Ratio Lower Upper
117 100
119 88.1 74.8 112.2
121 21.7 24.0 36.0#





#36

Benzene

Concen: 0.368 ppbv

RT: 7.09 min Scan# 1868

Delta R.T. -0.02 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Instrument :

MSVOA_L

ClientSampleId :

539A

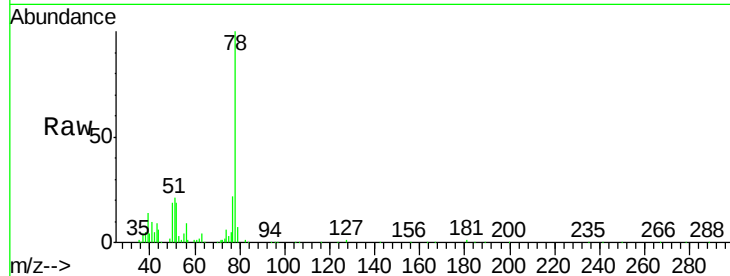
Tgt Ion: 78 Resp: 133631

Ion Ratio Lower Upper

78 100

77 21.2 17.7 26.5

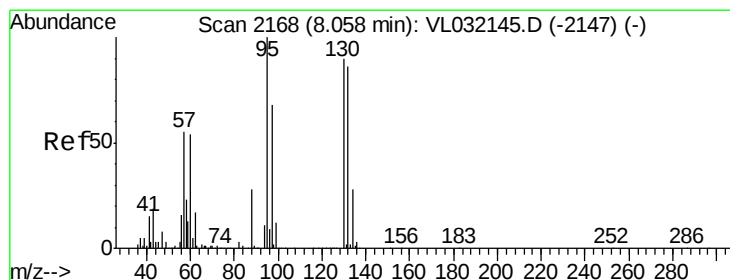
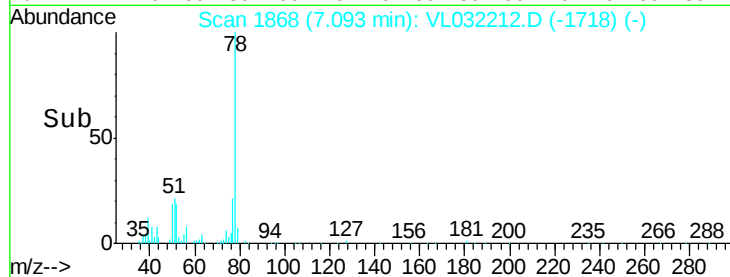
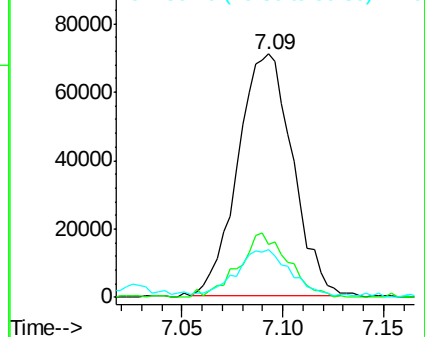
50 18.5 14.0 21.0



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: 0.466 ppbv

RT: 8.05 min Scan# 2166

Delta R.T. -0.02 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Tgt Ion: 130 Resp: 66147

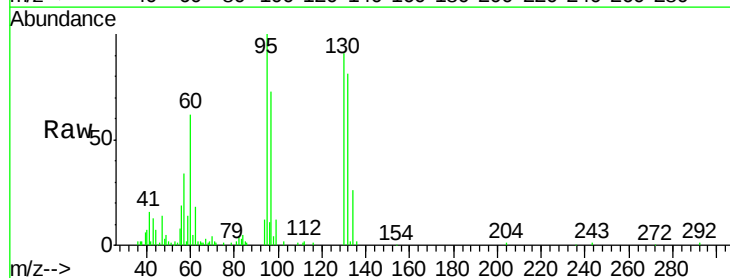
Ion Ratio Lower Upper

130 100

95 110.0 88.1 132.1

132 90.6 74.6 112.0

97 80.3 58.6 88.0

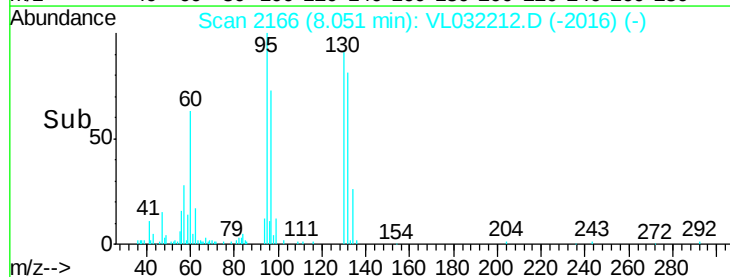
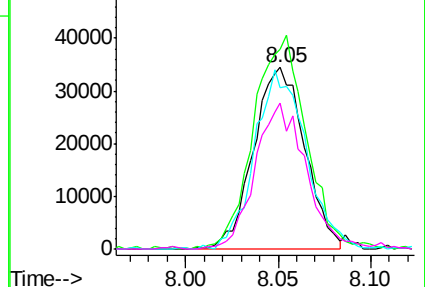


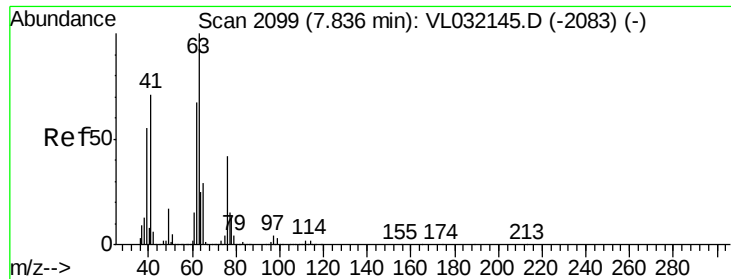
Abundance Ion 130.00 (129.70 to 130.70): V

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

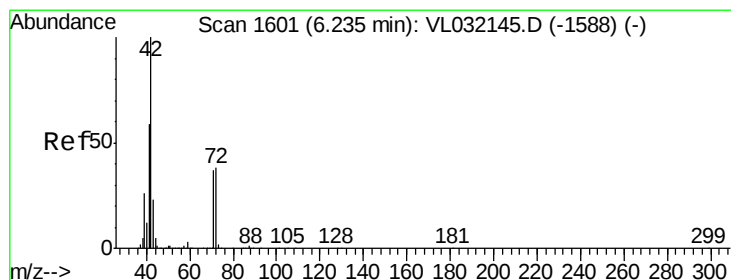
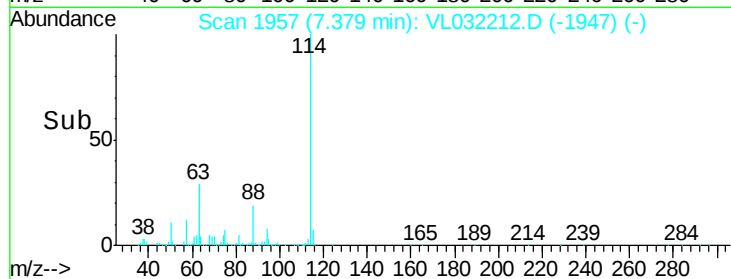
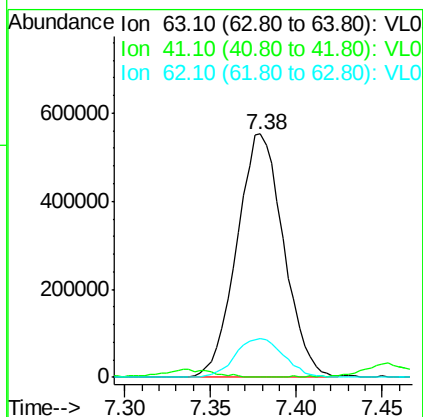
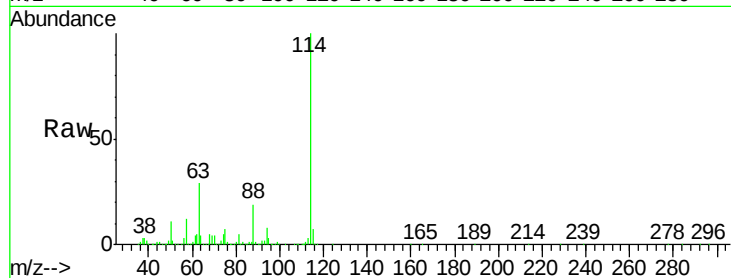




#39
 1,2-Dichloropropane
 Concen: 7.219 ppbv
 RT: 7.38 min Scan# 1957
 Delta R.T. -0.47 min
 Lab File: VL032212.D
 Acq: 5 Jul 2018 20:45

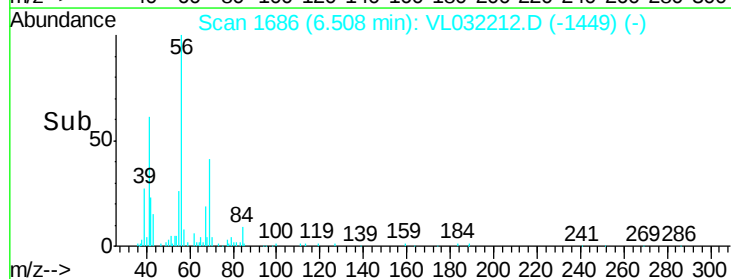
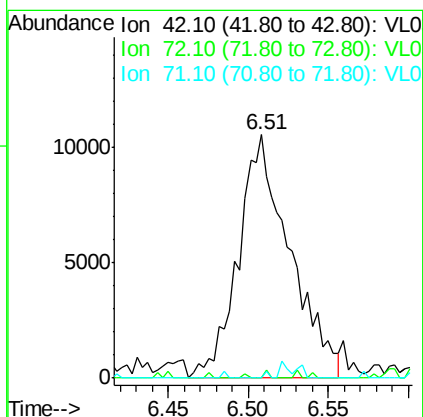
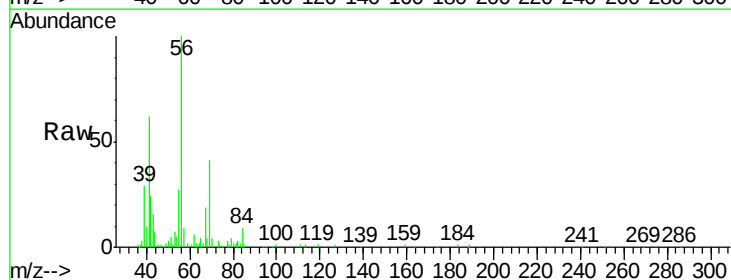
Instrument :
 MSVOA_L
 ClientSampleId :
 539A

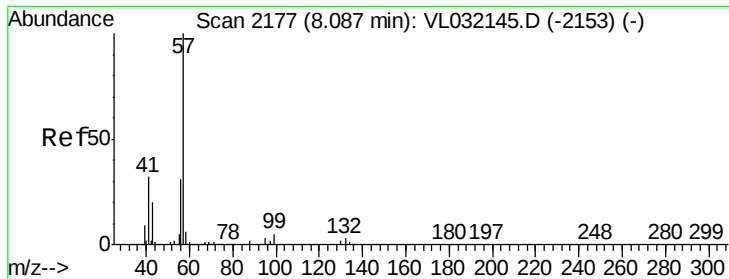
Tgt Ion: 63 Resp: 1035024
 Ion Ratio Lower Upper
 63 100
 41 0.0 53.3 79.9#
 62 15.7 54.8 82.2#



#41
 Tetrahydrofuran
 Concen: 0.163 ppbv
 RT: 6.51 min Scan# 1686
 Delta R.T. 0.26 min
 Lab File: VL032212.D
 Acq: 5 Jul 2018 20:45

Tgt Ion: 42 Resp: 23252
 Ion Ratio Lower Upper
 42 100
 72 3.2 31.1 46.7#
 71 0.0 29.5 44.3#





#44

2,2,4-Trimethylpentane

Concen: 0.387 ppbv

RT: 8.08 min Scan# 2176

Delta R.T. -0.02 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Instrument :

MSVOA_L

ClientSampleId :

539A

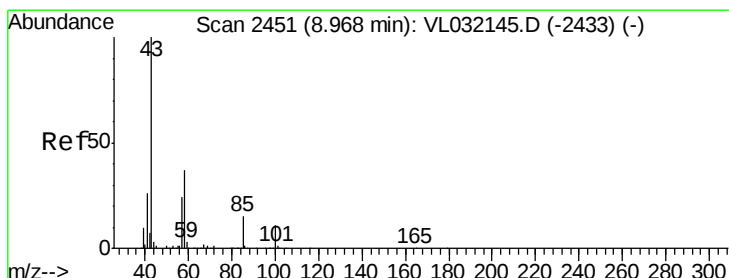
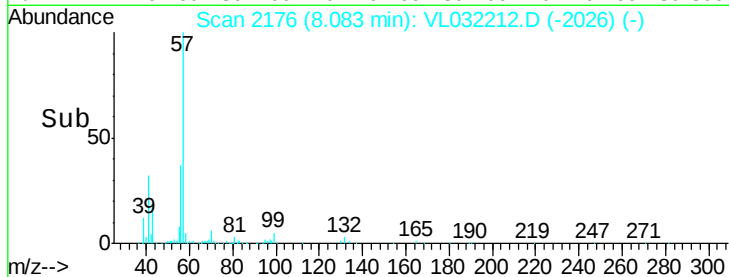
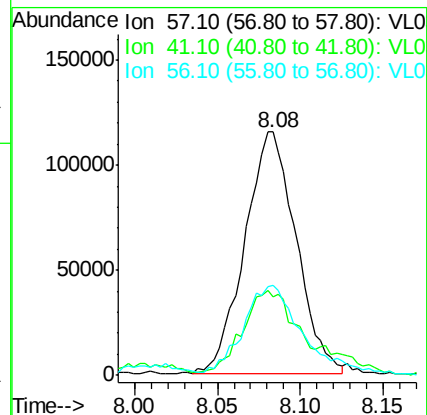
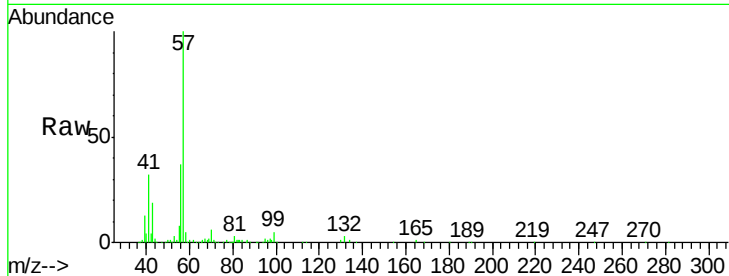
Tgt Ion: 57 Resp: 246069

Ion Ratio Lower Upper

57 100

41 42.3 24.3 36.5#

56 44.1 25.1 37.7#



#50

4-Methyl-2-Pentanone

Concen: 0.032 ppbv

RT: 8.97 min Scan# 2453

Delta R.T. -0.01 min

Lab File: VL032212.D

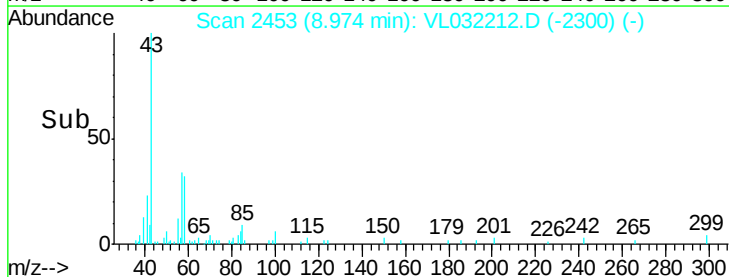
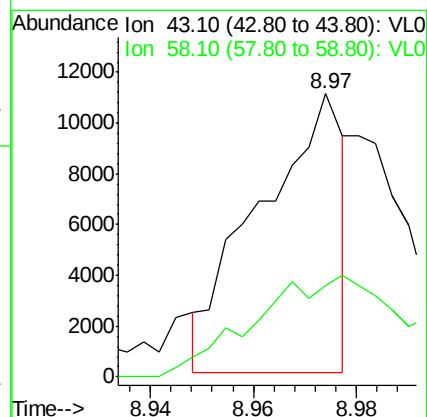
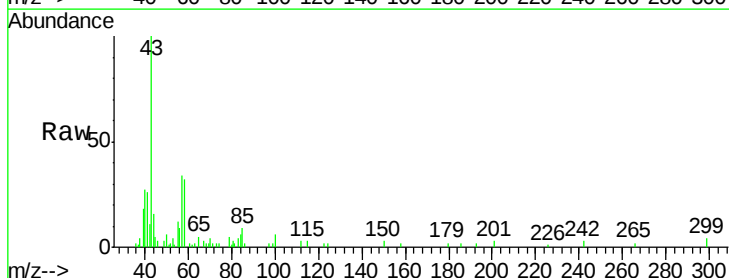
Acq: 5 Jul 2018 20:45

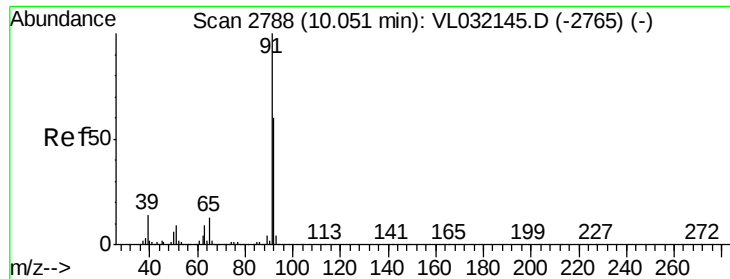
Tgt Ion: 43 Resp: 12454

Ion Ratio Lower Upper

43 100

58 0.0 29.8 44.6#





#53

Toluene

Concen: 1.090 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Instrument :

MSVOA_L

ClientSampleId :

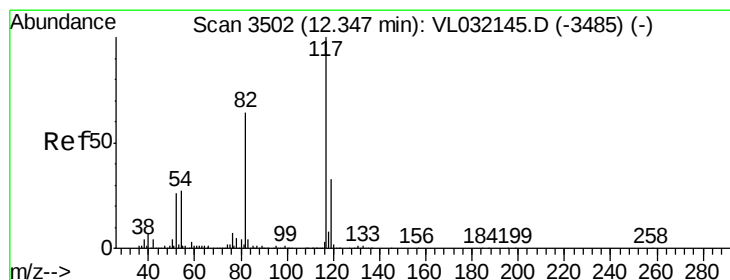
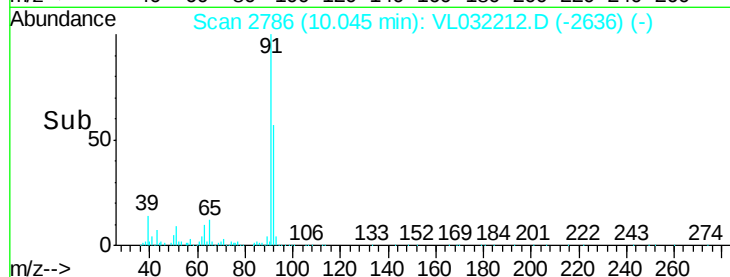
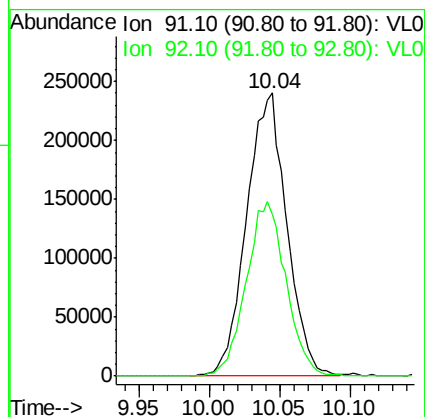
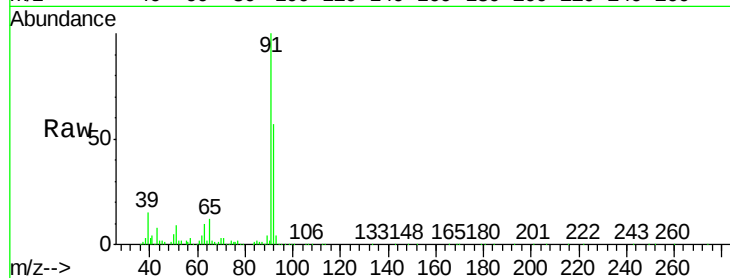
539A

Tgt Ion: 91 Resp: 478866

Ion Ratio Lower Upper

91 100

92 61.3 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.34 min Scan# 3499

Delta R.T. -0.02 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

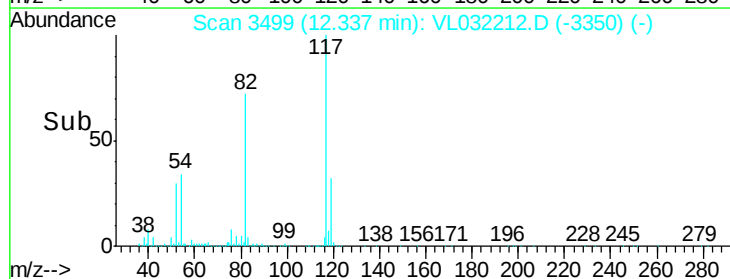
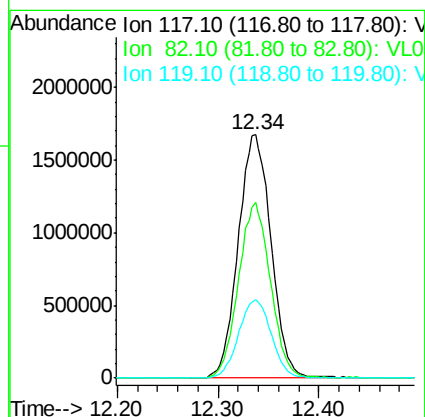
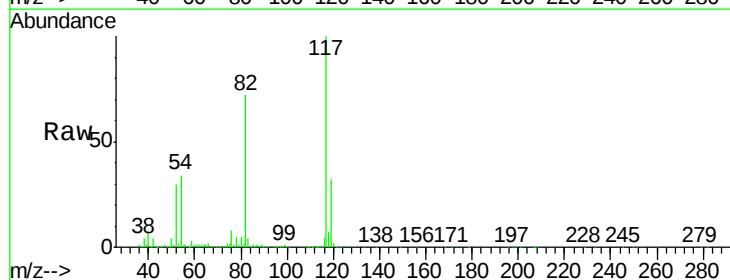
Tgt Ion: 117 Resp: 3788187

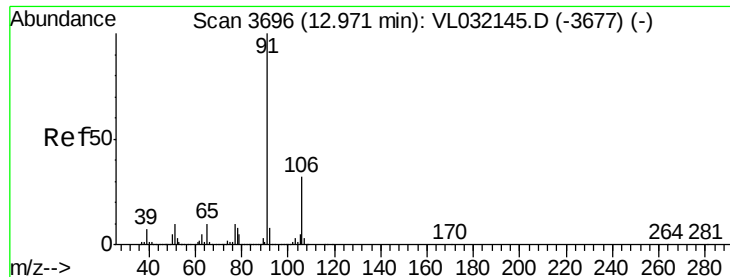
Ion Ratio Lower Upper

117 100

82 70.7 47.8 71.8

119 32.1 43.3 64.9#





#58

Ethyl Benzene

Concen: 0.258 ppbv

RT: 12.96 min Scan# 3693

Delta R.T. -0.02 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Instrument :

MSVOA_L

ClientSampleId :

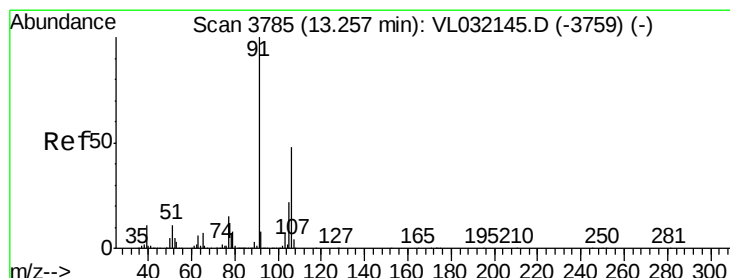
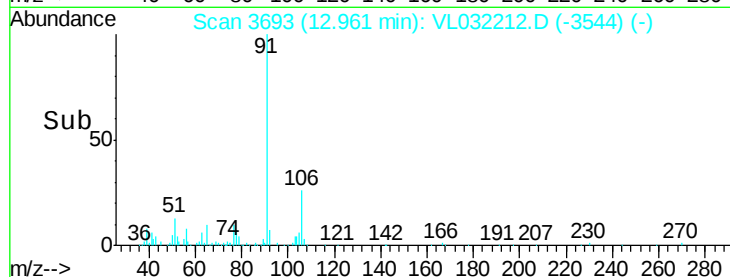
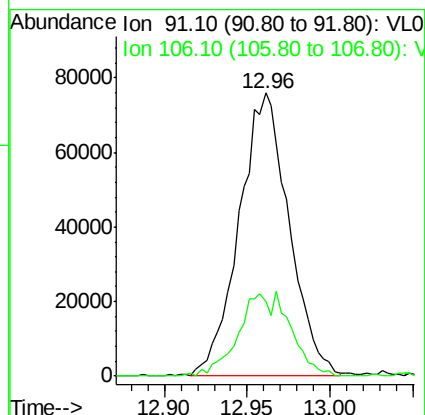
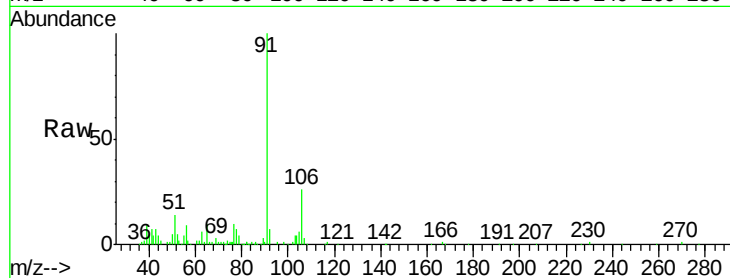
539A

Tgt Ion: 91 Resp: 157511

Ion Ratio Lower Upper

91 100

106 26.2 26.5 39.7#



#59

m/p-Xylene

Concen: 0.179 ppbv

RT: 13.24 min Scan# 3781

Delta R.T. -0.03 min

Lab File: VL032212.D

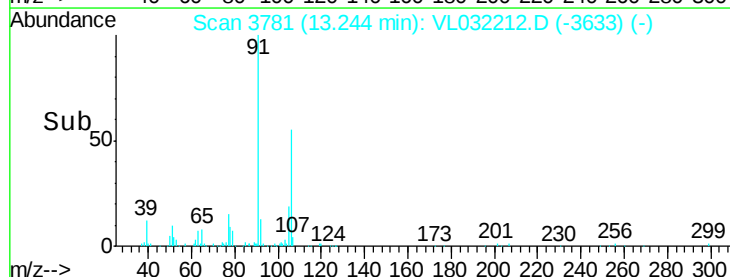
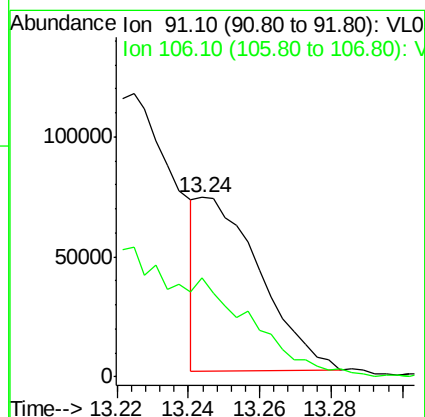
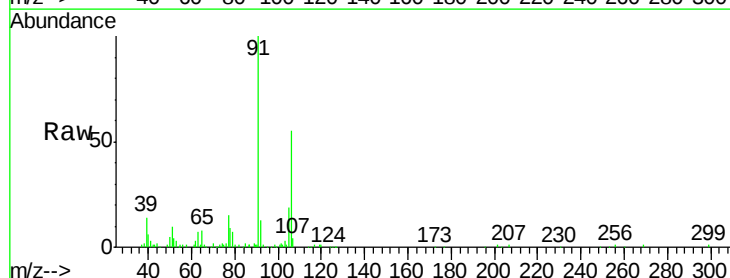
Acq: 5 Jul 2018 20:45

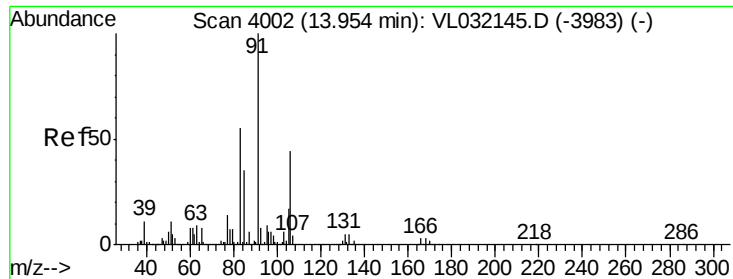
Tgt Ion: 91 Resp: 87492

Ion Ratio Lower Upper

91 100

106 0.0 38.6 58.0#

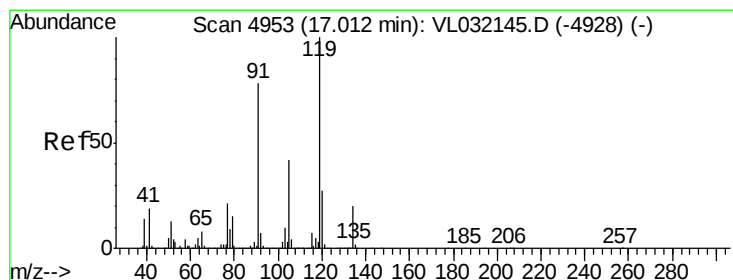
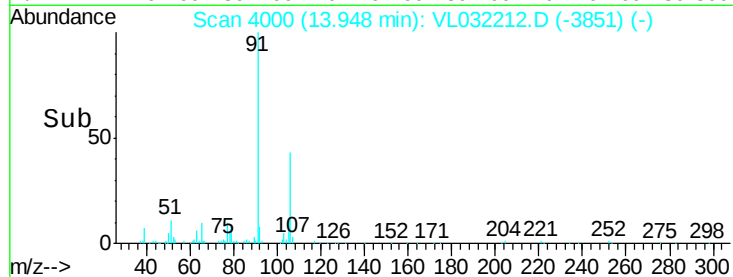
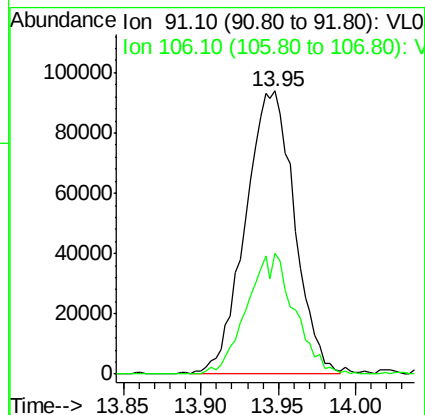
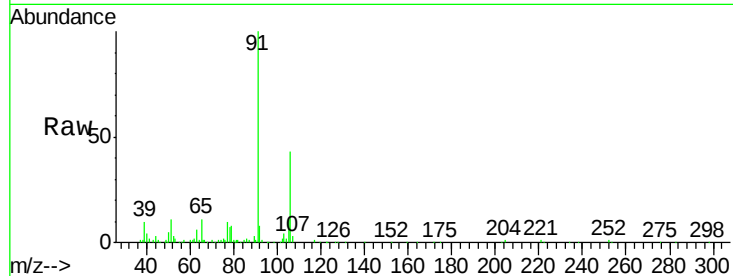




#60
o-Xylene
Concen: 0.422 ppbv
RT: 13.95 min Scan# 4000
Delta R.T. -0.02 min
Lab File: VL032212.D
Acq: 5 Jul 2018 20:45

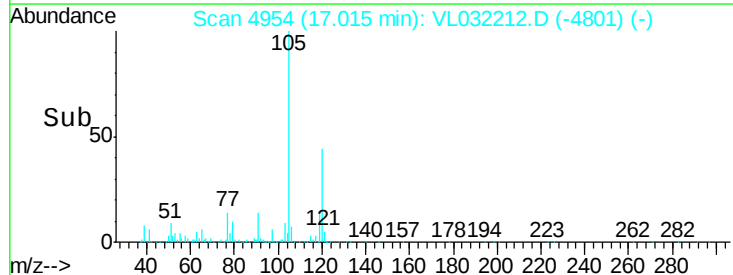
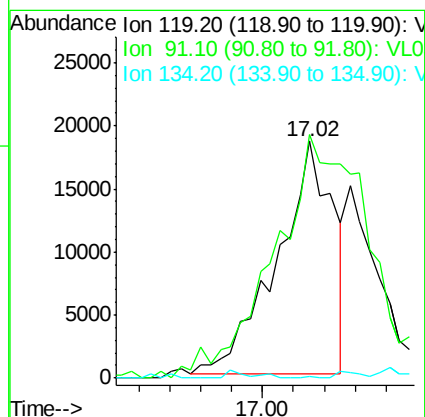
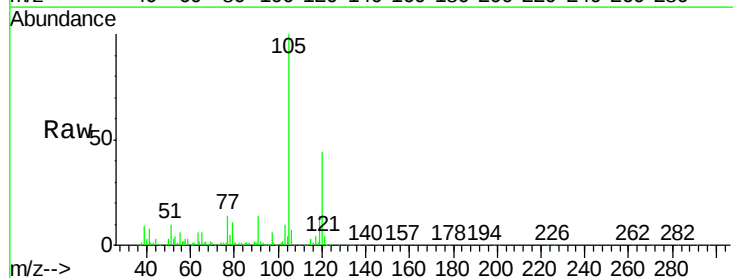
Instrument :
MSVOA_L
ClientSampleId :
539A

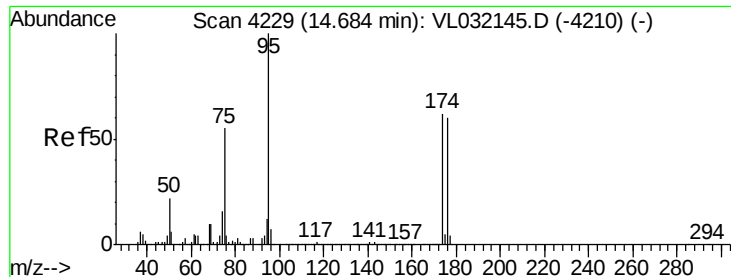
Tgt Ion: 91 Resp: 205756
Ion Ratio Lower Upper
91 100
106 41.6 23.3 69.8



#65
tert-Butylbenzene
Concen: 0.035 ppbv
RT: 17.02 min Scan# 4954
Delta R.T. -0.01 min
Lab File: VL032212.D
Acq: 5 Jul 2018 20:45

Tgt Ion: 119 Resp: 23410
Ion Ratio Lower Upper
119 100
91 178.7 62.2 93.2#
134 0.0 16.2 24.2#

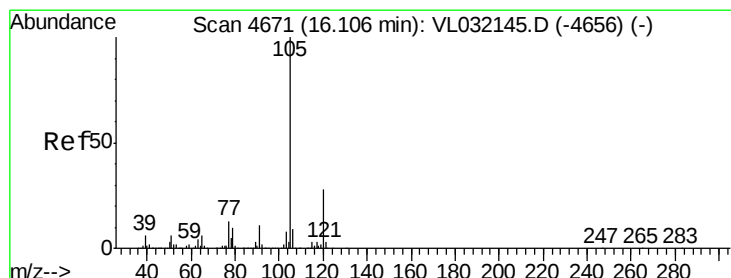
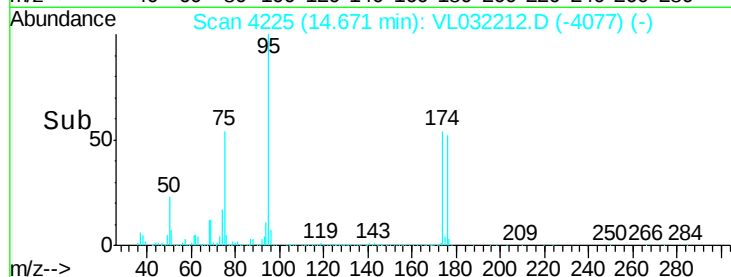
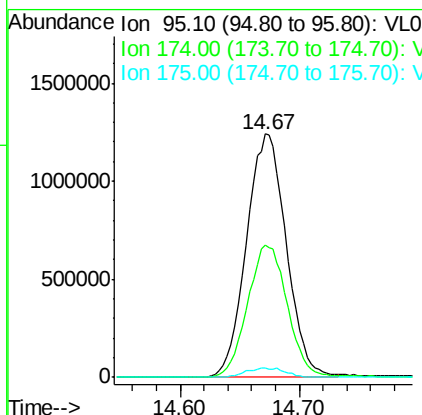
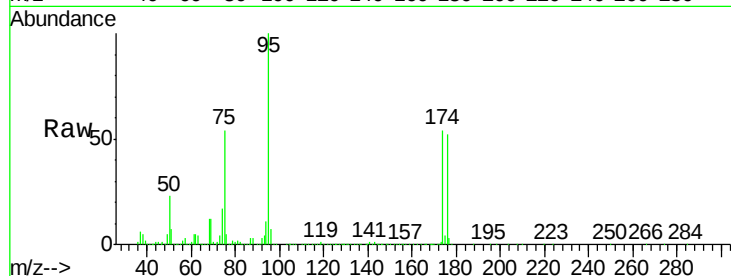




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.925 ppbv
 RT: 14.67 min Scan# 4225
 Delta R.T. -0.03 min
 Lab File: VL032212.D
 Acq: 5 Jul 2018 20:45

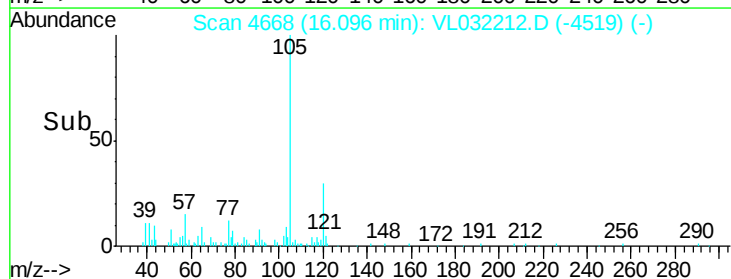
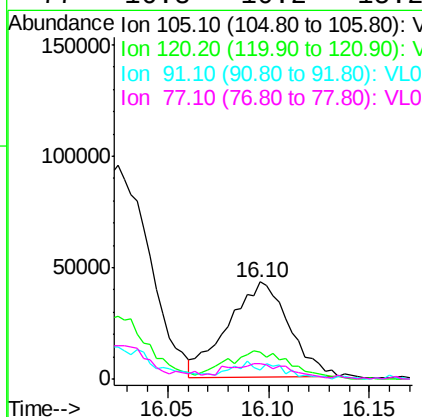
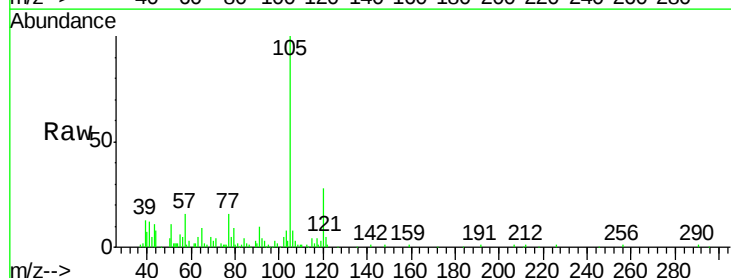
Instrument :
 MSVOA_L
 ClientSampleId :
 539A

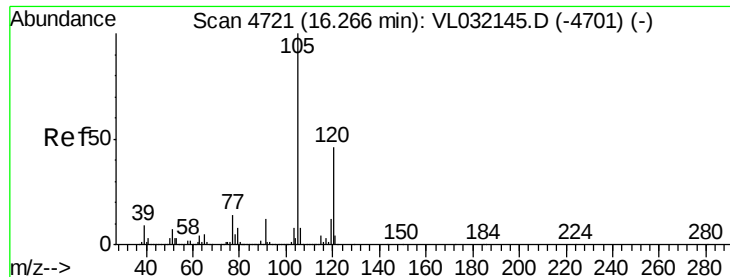
Tgt Ion: 95 Resp: 2873859
 Ion Ratio Lower Upper
 95 100
 174 54.8 52.1 78.1
 175 3.9 4.0 6.0#



#72
 4-Ethyltoluene
 Concen: 0.141 ppbv
 RT: 16.10 min Scan# 4668
 Delta R.T. -0.02 min
 Lab File: VL032212.D
 Acq: 5 Jul 2018 20:45

Tgt Ion: 105 Resp: 89040
 Ion Ratio Lower Upper
 105 100
 120 31.7 24.3 36.5
 91 15.3 9.4 14.0#
 77 16.8 10.2 15.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.095 ppbv

RT: 16.25 min Scan# 4715

Delta R.T. -0.03 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Instrument :

MSVOA_L

ClientSampleId :

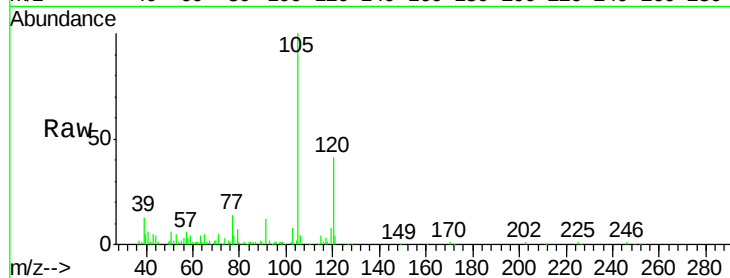
539A

Tgt Ion:105 Resp: 56312

Ion Ratio Lower Upper

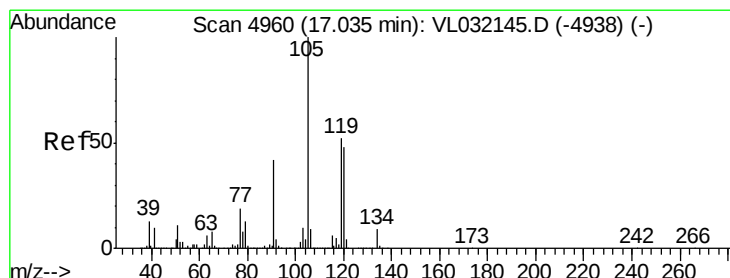
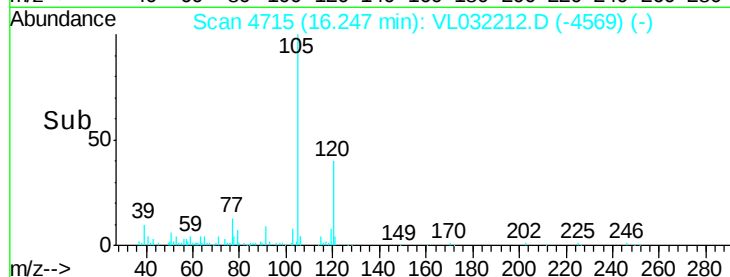
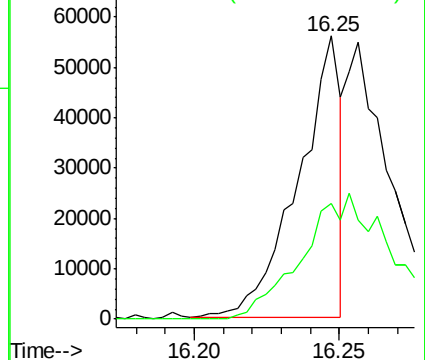
105 100

120 41.3 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: 0.527 ppbv

RT: 17.02 min Scan# 4955

Delta R.T. -0.03 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Tgt Ion:105 Resp: 316107

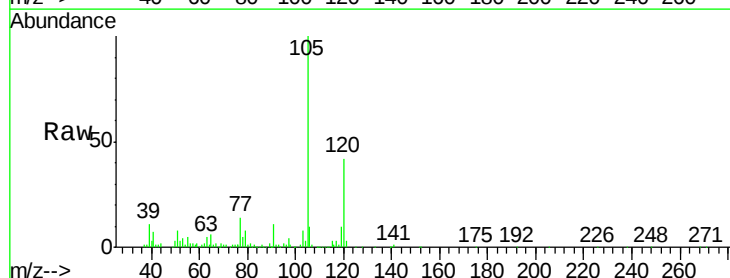
Ion Ratio Lower Upper

105 100

120 41.7 38.8 58.2

91 11.3 33.6 50.4#

77 14.0 16.0 24.0#

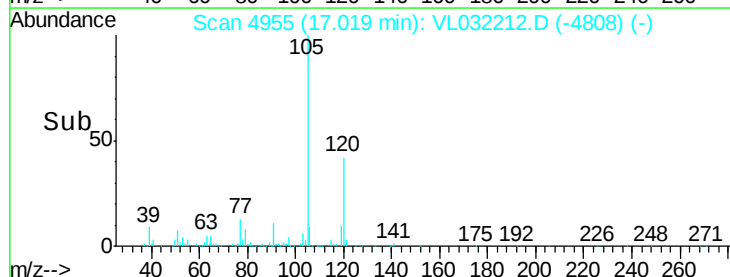
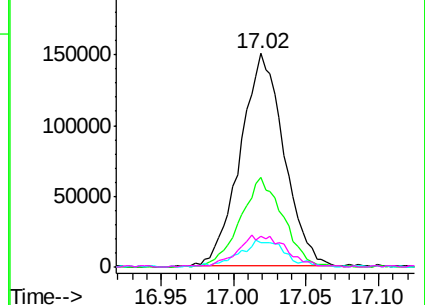


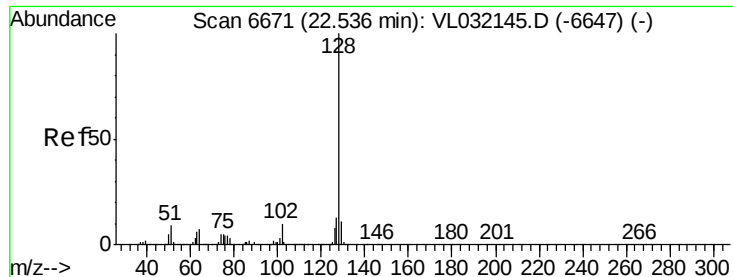
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.064 ppbv

RT: 22.53 min Scan# 6668

Delta R.T. -0.03 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

Instrument :

MSVOA_L

ClientSampleId :

539A

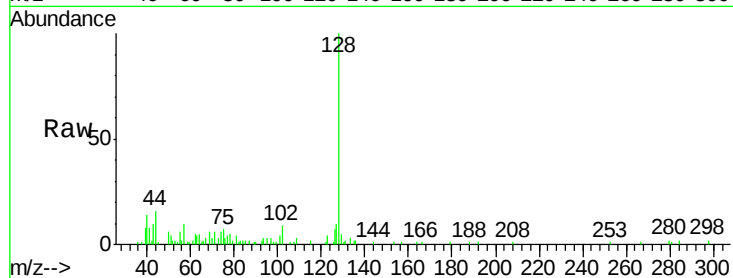
Tgt Ion:128 Resp: 34966

Ion Ratio Lower Upper

128 100

127 9.2 10.5 15.7#

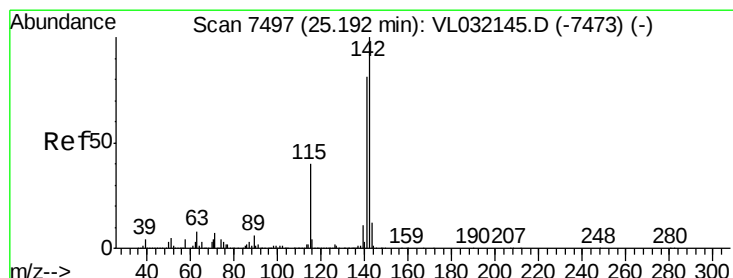
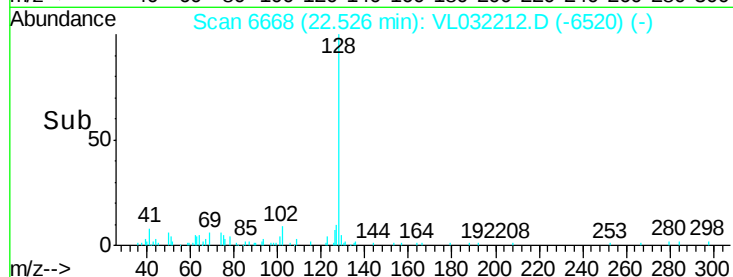
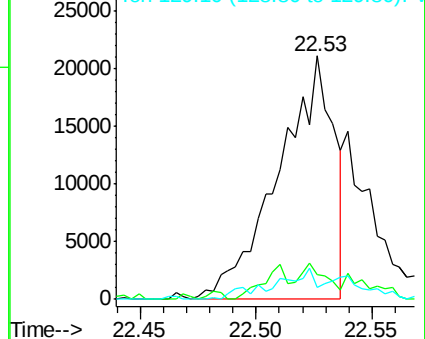
129 4.6 9.0 13.6#



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: 0.056 ppbv

RT: 25.19 min Scan# 7497

Delta R.T. -0.01 min

Lab File: VL032212.D

Acq: 5 Jul 2018 20:45

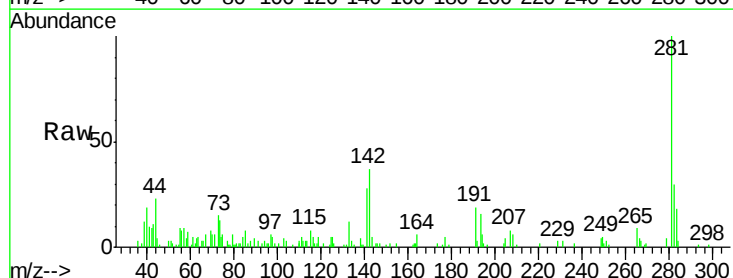
Tgt Ion:142 Resp: 11059

Ion Ratio Lower Upper

142 100

141 94.3 65.8 98.6

115 58.5 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

