

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111621\
 Data File : VL038027.D
 Acq On : 16 Nov 2021 4:19
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 16 04:48:57 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 16 03:19:45 2021
 QLast Update : Tue Nov 16 03:19:45 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	912634	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3066541	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2783949	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2051263	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	23993	0.175 ppbv	94
3) Chlorodifluoromethane	3.00	51	24783	0.137 ppbv	96
4) Chloromethane	3.15	50	8102	0.119 ppbv	96
5) Vinyl Chloride	3.26	62	6458	0.099 ppbv	98
6) Bromomethane	3.47	94	1651	0.047 ppbv #	52
7) Chloroethane	3.56	64	1454	0.062 ppbv	94
8) Dichlorotetrafluoroethane	3.19	85	20448	0.131 ppbv	94
9) Propene	3.01	41	11843	0.179 ppbv #	82
10) Heptane	8.11	43	15247	0.100 ppbv #	43
11) Trichlorofluoromethane	3.95	101	14997	0.110 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	12556	0.118 ppbv	91
13) Ethanol	3.63	45	928	0.145 ppbv #	35
14) Bromoethene	3.74	108	2959	0.065 ppbv #	1
16) 1,3-Butadiene	3.34	39	5851	0.093 ppbv #	39
18) 1,1-Dichloroethene	4.29	96	2972	0.060 ppbv	95
20) Methylene Chloride	4.35	84	7553	0.172 ppbv	93
21) Allyl Chloride	4.41	41	9455	0.125 ppbv #	79
24) 1,1-Dichloroethane	5.01	63	5687	0.056 ppbv #	96
25) Ethyl Acetate	5.69	43	11525	0.051 ppbv #	67
26) Hexane	5.68	57	13880	0.129 ppbv #	87
27) Carbon Disulfide	4.55	76	7235	0.063 ppbv #	20
29) Chloroform	5.74	83	10167	0.061 ppbv	93
30) Cyclohexane	7.12	84	5926	0.060 ppbv #	1
31) cis-1,2-Dichloroethene	5.54	61	3850	0.040 ppbv #	78
32) 1,1,1-Trichloroethane	6.51	97	13234	0.080 ppbv #	41
35) Carbon Tetrachloride	7.01	117	11467	0.061 ppbv	93
36) Benzene	6.89	78	31323	0.124 ppbv	97
37) 1,2-Dichloroethane	6.31	62	5938	0.049 ppbv #	57
38) Trichloroethene	7.83	130	11735	0.113 ppbv #	75
39) 1,2-Dichloropropane	7.61	63	7567	0.078 ppbv #	76
42) Bromodichloromethane	7.78	83	12941	0.070 ppbv	99
43) Methyl Methacrylate	8.02	69	4875	0.058 ppbv #	1
44) 2,2,4-Trimethylpentane	7.86	57	57021	0.133 ppbv	92
45) t-1,3-Dichloropropene	9.28	75	3185	0.050 ppbv	95
48) Dibromochloromethane	10.29	129	5434	0.036 ppbv #	10
49) Bromoform	13.03	173	12037	0.100 ppbv	92
52) Tetrachloroethene	11.20	164	5884	0.062 ppbv #	68
53) Toluene	9.79	91	13781	0.051 ppbv #	20
54) 1,2-Dibromoethane	10.60	107	8105	0.059 ppbv #	75
56) 1,1,1,2-Tetrachloroethane	12.12	131	4095	0.037 ppbv #	1
57) Chlorobenzene	12.14	112	21065	0.096 ppbv #	74

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111621\
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 Operator : SY/AP
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

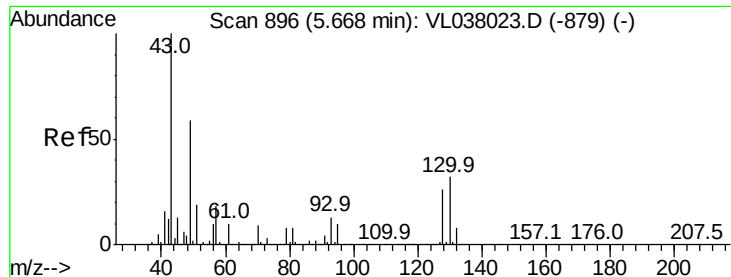
Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 16 04:48:57 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 16 03:19:45 2021
 QLast Update : Tue Nov 16 03:19:45 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

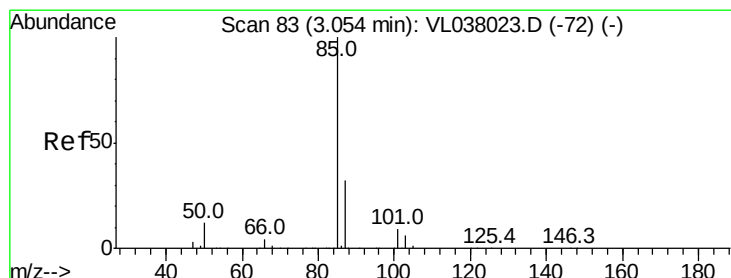
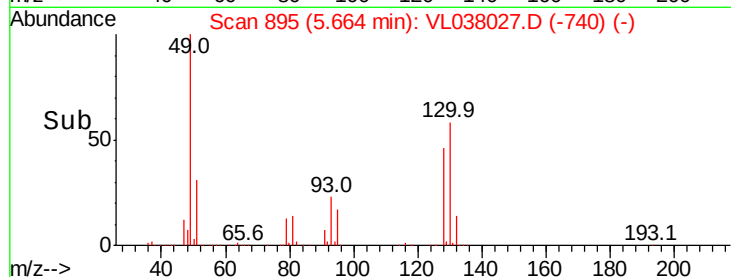
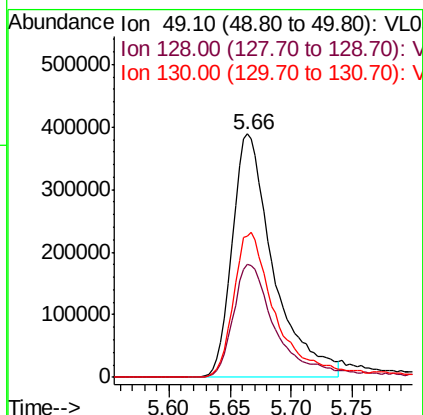
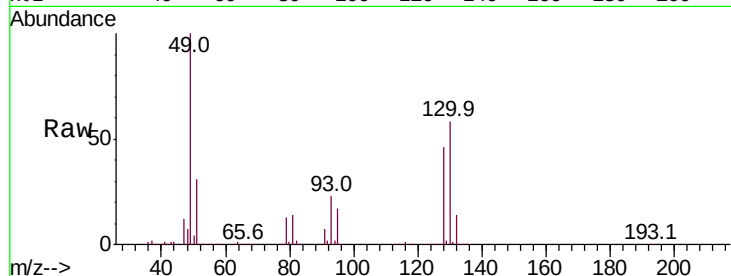
58) Ethyl Benzene	12.70	91	52296	0.153	ppbv	95
59) m/p-Xylene	12.99	91	36868	0.123	ppbv #	17
60) o-Xylene	13.68	91	20159	0.071	ppbv #	26
61) Styrene	13.52	104	13894	0.104	ppbv #	60
62) Isopropylbenzene	14.66	105	26599	0.066	ppbv #	41
63) 1,1,2,2-Tetrachloroethane	13.67	83	16006	0.066	ppbv #	44
64) n-propylbenzene	15.55	120	8584	0.084	ppbv #	1
65) tert-Butylbenzene	16.73	119	29023	0.082	ppbv #	36
66) Benzyl Chloride	16.97	91	741	0.038	ppbv #	1
67) sec-Butylbenzene	17.28	105	31520	0.065	ppbv #	58
69) p-Isopropyltoluene	17.64	119	46894	0.120	ppbv #	86
70) n-Butylbenzene	18.54	91	23237	0.065	ppbv #	32
71) 2-Chlorotoluene	15.45	91	19826	0.070	ppbv #	41
72) 4-Ethyltoluene	15.83	105	40119	0.123	ppbv #	86
73) 1,3,5-Trimethylbenzene	15.99	105	34737	0.114	ppbv	86
74) 1,2,4-Trimethylbenzene	16.75	105	21535	0.068	ppbv	94
76) 1,4-Dichlorobenzene	17.12	146	8916	0.047	ppbv #	23
77) 1,2-Dichlorobenzene	17.80	146	6880	0.037	ppbv #	22
78) Hexachloro-1,3-Butadiene	23.36	225	8313	0.055	ppbv #	18

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



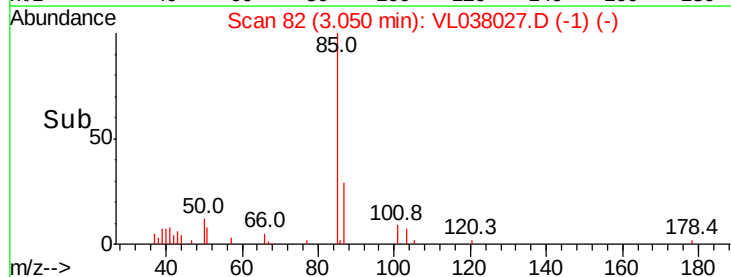
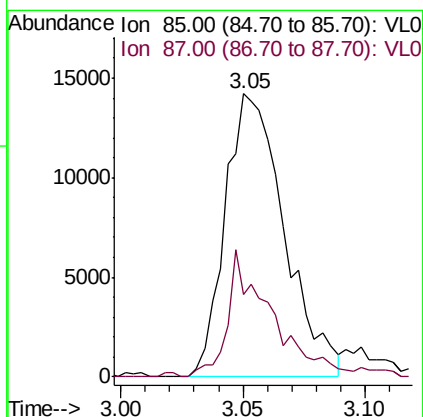
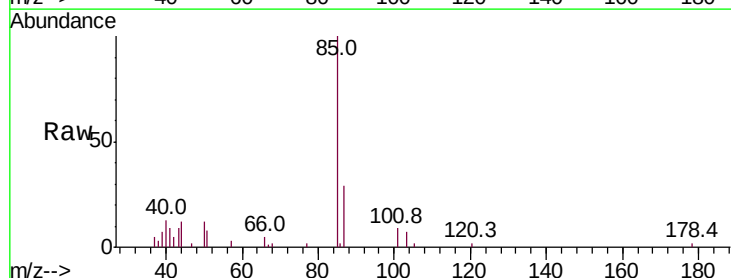
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 16 Nov 2021 4:19

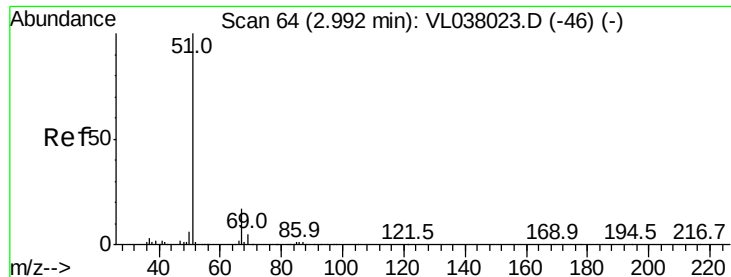
Tot Ion	49	Resp	912634
Ion Ratio	Lower	Upper	
49	100		
128	50.5	23.4	70.2
130	64.5	29.1	87.3



#2
 Dichlorodifluoromethane
 Concen: 0.175 ppbv
 RT: 3.05 min Scan# 82
 Delta R.T.: -0.00 min
 Lab File: VL038027.D
 Acq: 16 Nov 2021 4:19

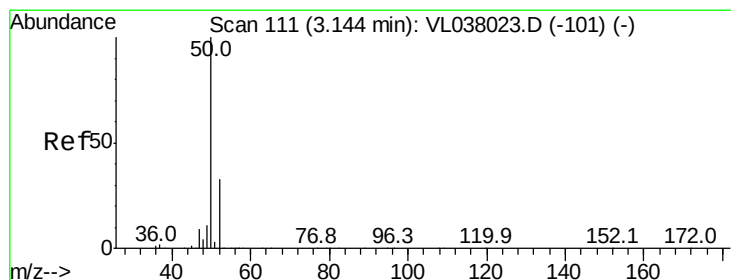
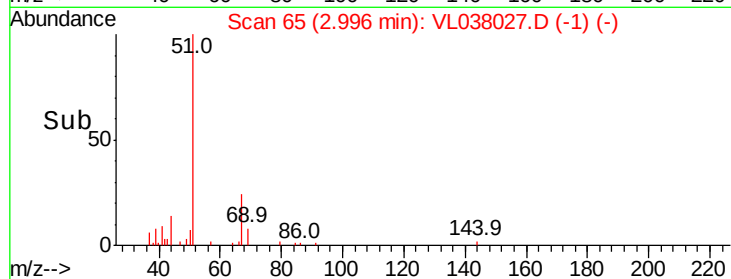
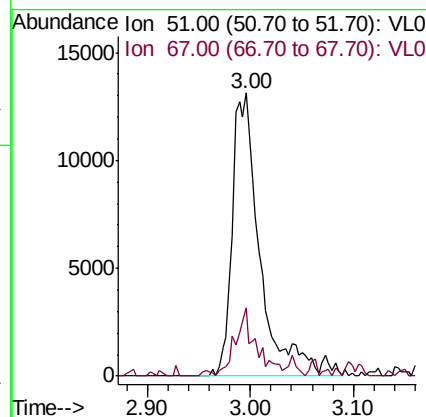
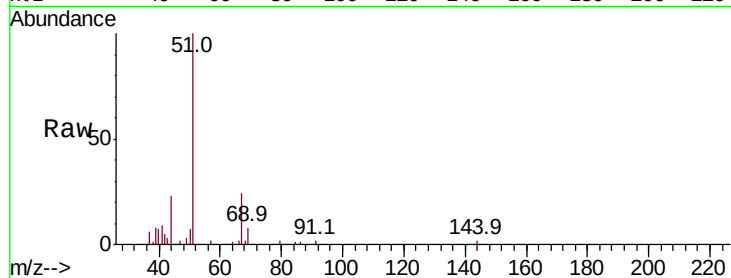
Tgt Ion	85	Resp	23993
Ion Ratio	Lower	Upper	
85	100		
87	29.3	25.9	38.9





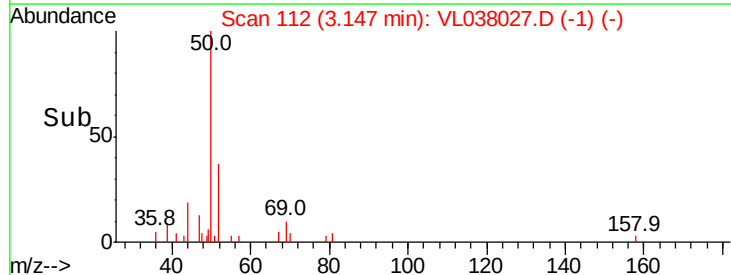
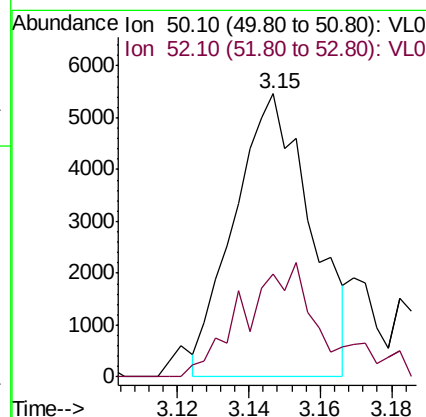
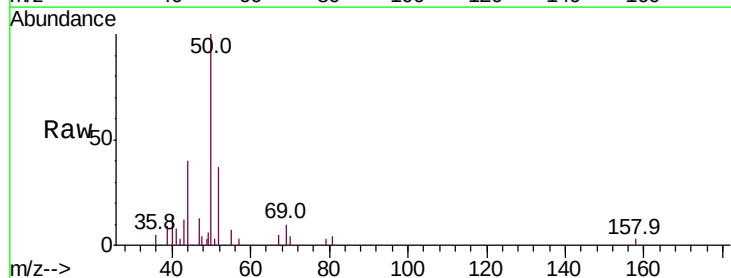
#3
 Chlorodifluoromethane
 Concen: 0.137 ppbv
 RT: 3.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Nov 2021 4:19

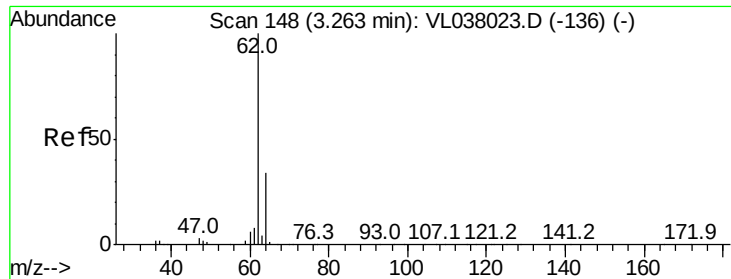
Tot Ion: 51 Resp: 24783
 Ion Ratio Lower Upper
 51 100
 67 18.5 13.5 20.3



#4
 Chloromethane
 Concen: 0.119 ppbv
 RT: 3.15 min Scan# 112
 Delta R.T. 0.00 min
 Lab File: VL038027.D
 Acq: 16 Nov 2021 4:19

Tgt Ion: 50 Resp: 8102
 Ion Ratio Lower Upper
 50 100
 52 35.0 26.4 39.6





#5

Vinyl Chloride

Concen: 0.099 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

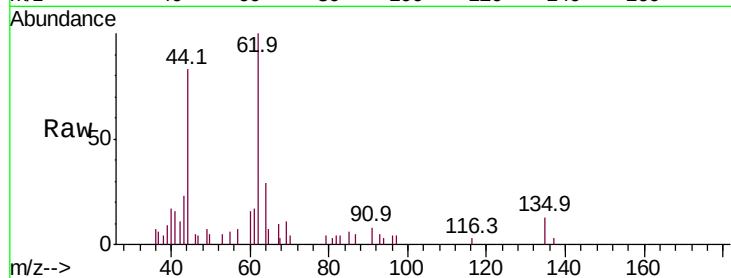
Acq: 16 Nov 2021 4:19

Tot Ion: 62 Resp: 6458

Ion Ratio Lower Upper

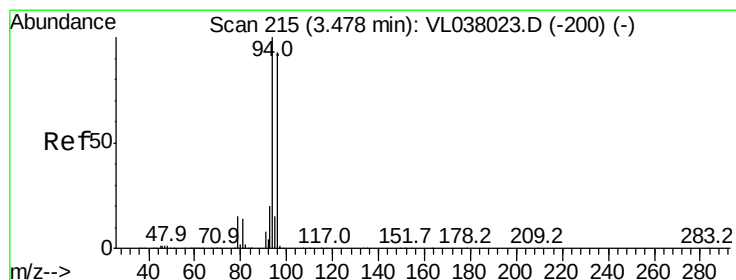
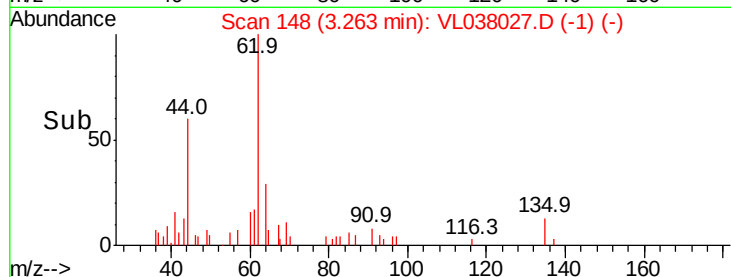
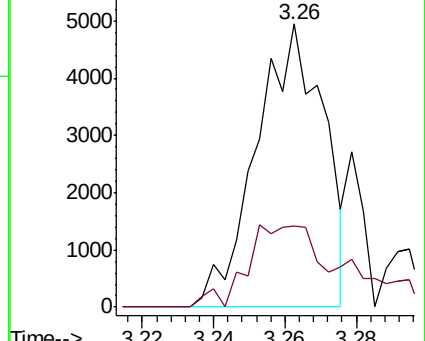
62 100

64 35.3 27.4 41.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.047 ppbv

RT: 3.47 min Scan# 214

Delta R.T. -0.00 min

Lab File: VL038027.D

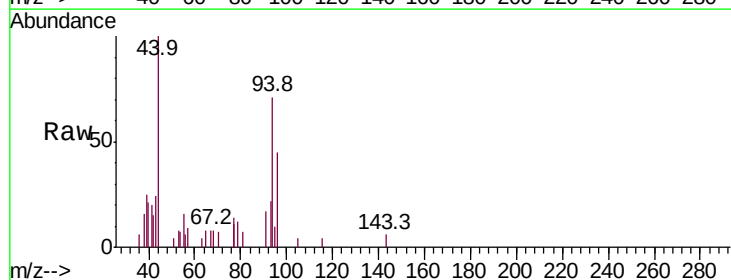
Acq: 16 Nov 2021 4:19

Tgt Ion: 94 Resp: 1651

Ion Ratio Lower Upper

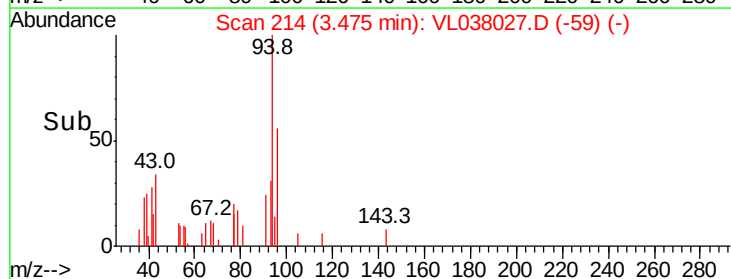
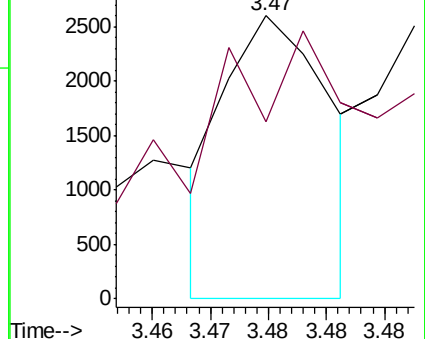
94 100

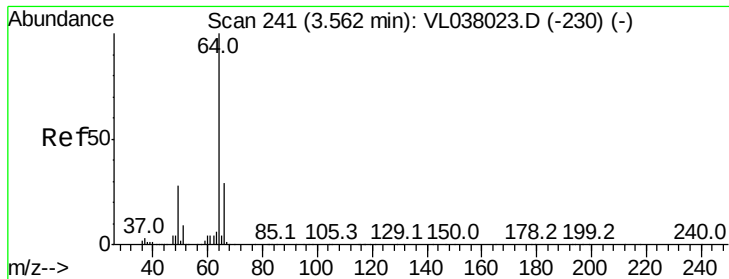
96 47.0 74.8 112.2#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.062 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

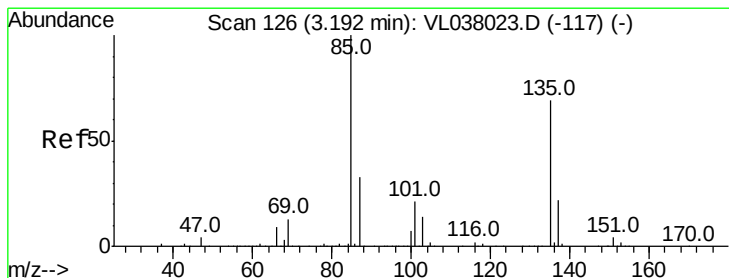
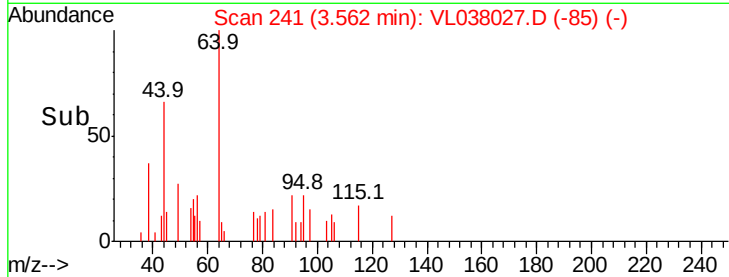
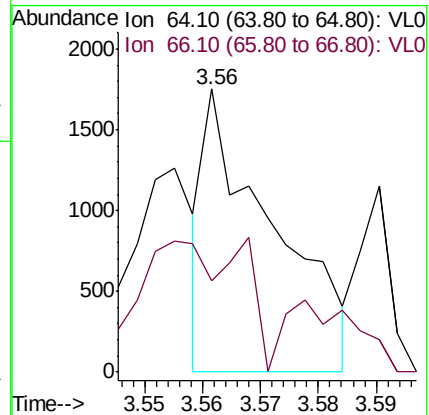
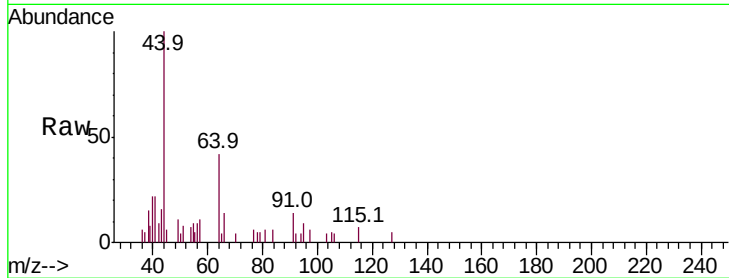
Acq: 16 Nov 2021 4:19

Tot Ion: 64 Resp: 1454

Ion Ratio Lower Upper

64 100

66 32.3 23.1 34.7



#8

Dichlorotetrafluoroethane

Concen: 0.131 ppbv

RT: 3.19 min Scan# 125

Delta R.T. -0.00 min

Lab File: VL038027.D

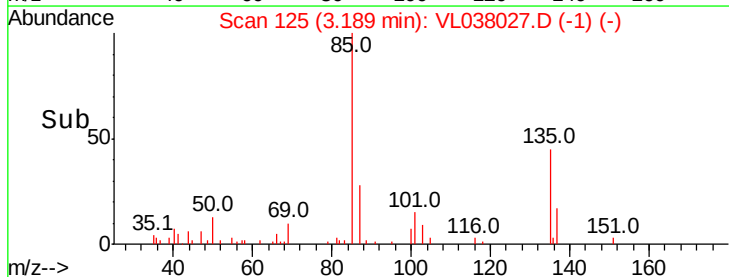
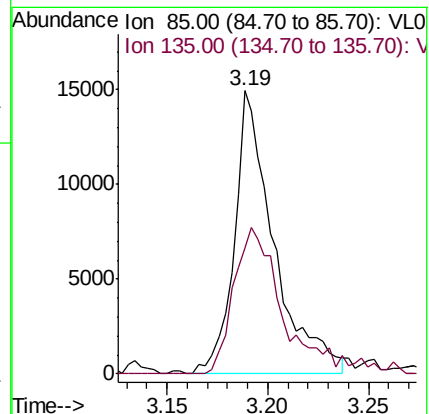
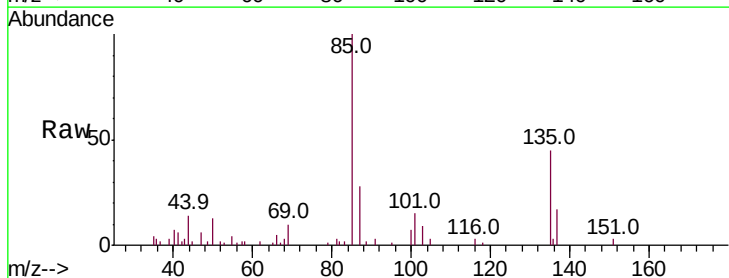
Acq: 16 Nov 2021 4:19

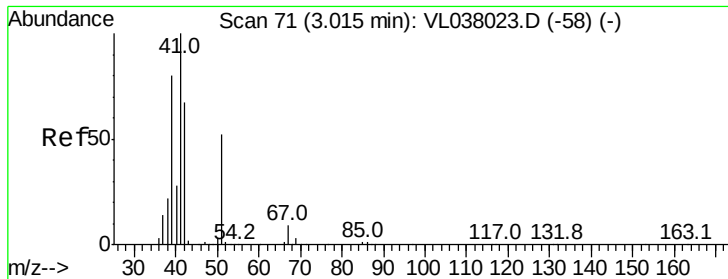
Tgt Ion: 85 Resp: 20448

Ion Ratio Lower Upper

85 100

135 66.6 57.0 85.6





#9

Propene

Concen: 0.179 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

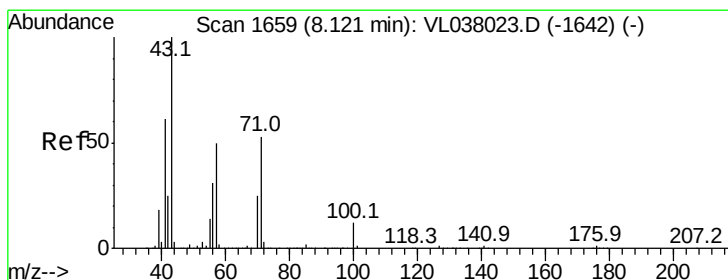
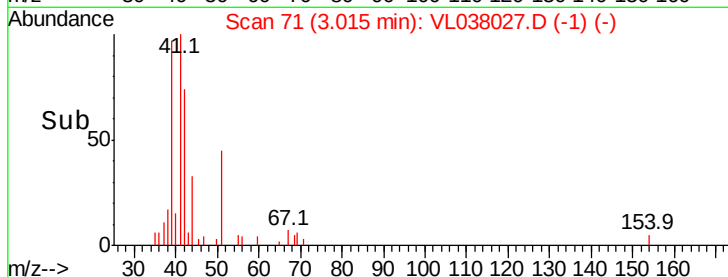
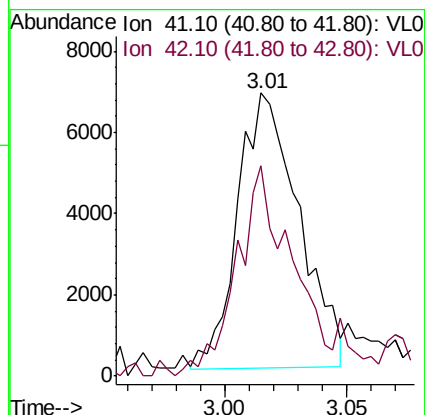
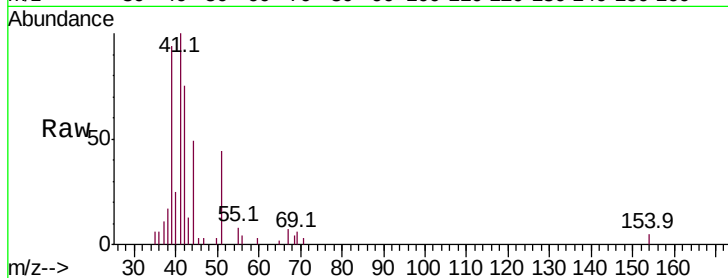
Acq: 16 Nov 2021 4:19

Tot Ion: 41 Resp: 11843

Ion Ratio Lower Upper

41 100

42 84.0 55.4 83.0#



#10

Heptane

Concen: 0.100 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.01 min

Lab File: VL038027.D

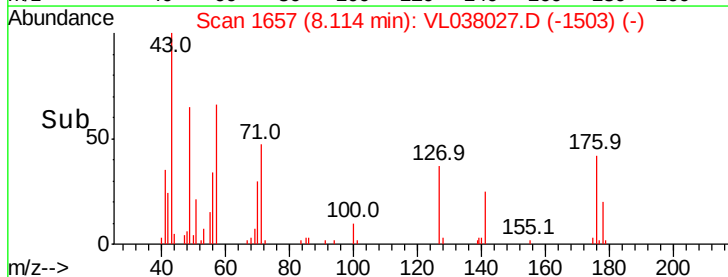
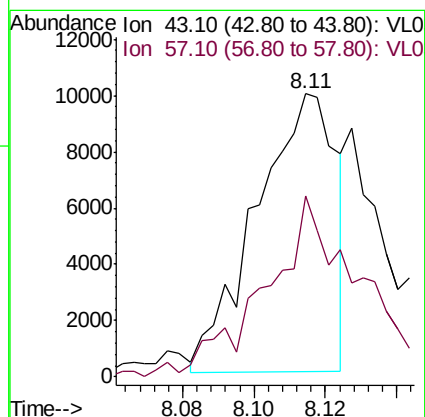
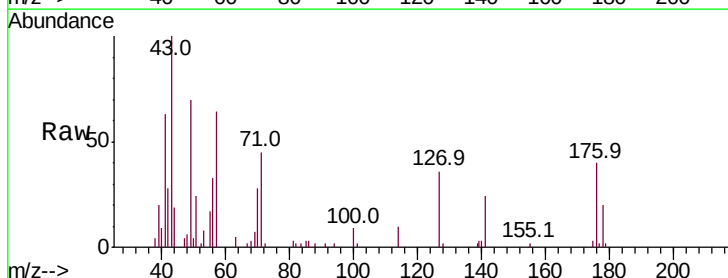
Acq: 16 Nov 2021 4:19

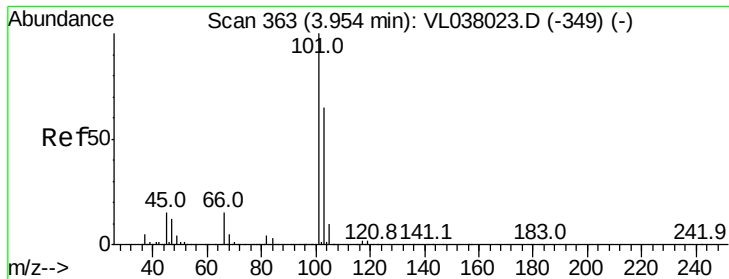
Tgt Ion: 43 Resp: 15247

Ion Ratio Lower Upper

43 100

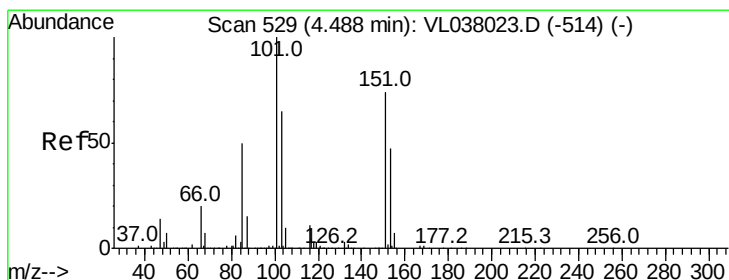
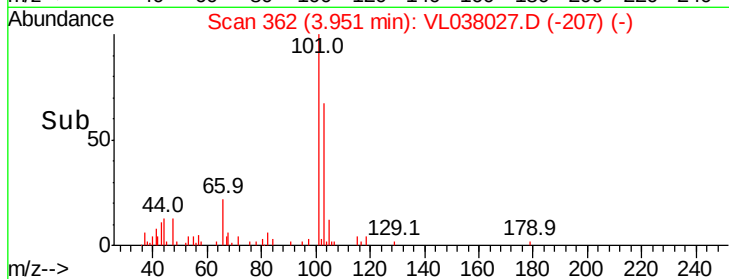
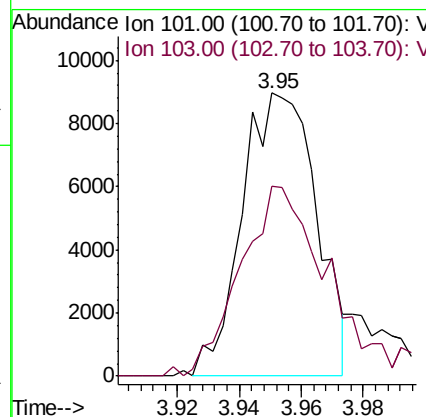
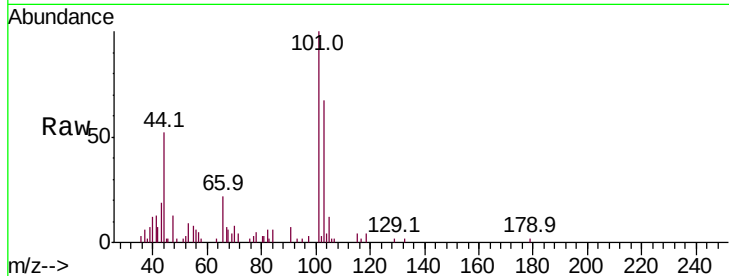
57 88.8 39.9 59.9#





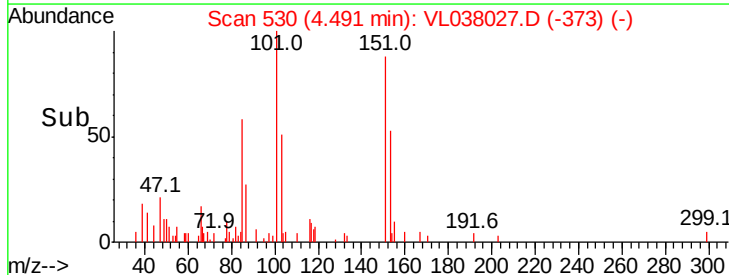
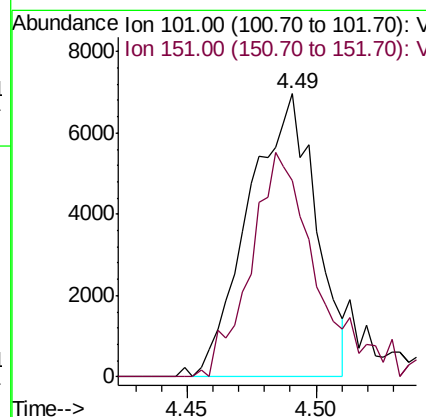
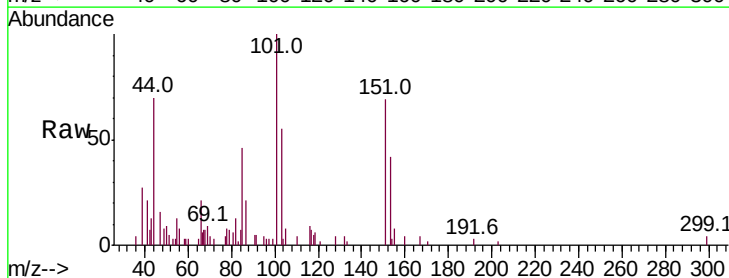
#11
 Trichlorofluoromethane
 Concen: 0.110 ppbv
 RT: 3.95 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 16 Nov 2021 4:19

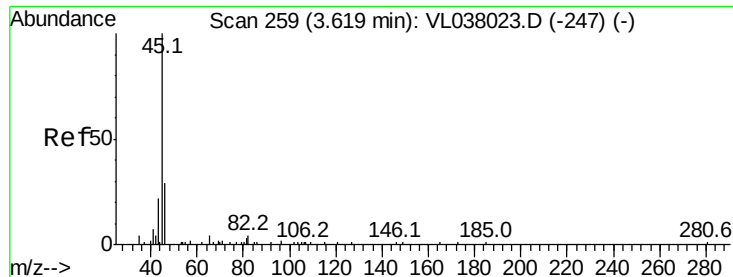
Tot Ion:101 Resp: 14997
 Ion Ratio Lower Upper
 101 100
 103 64.8 52.3 78.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.118 ppbv
 RT: 4.49 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VL038027.D
 Acq: 16 Nov 2021 4:19

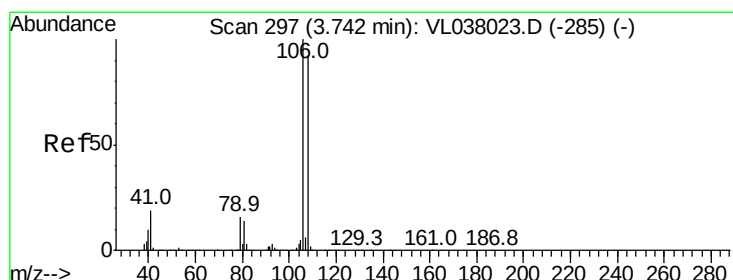
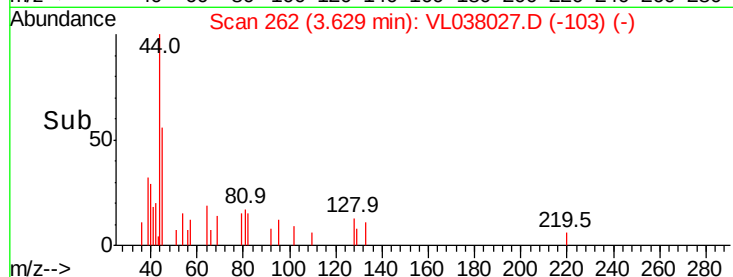
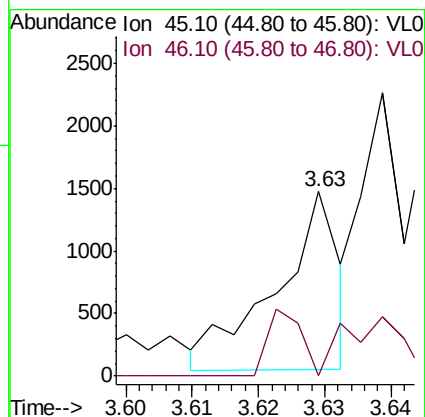
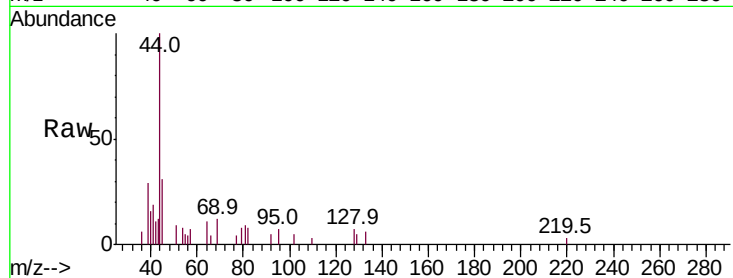
Tgt Ion:101 Resp: 12556
 Ion Ratio Lower Upper
 101 100
 151 80.1 57.9 86.9





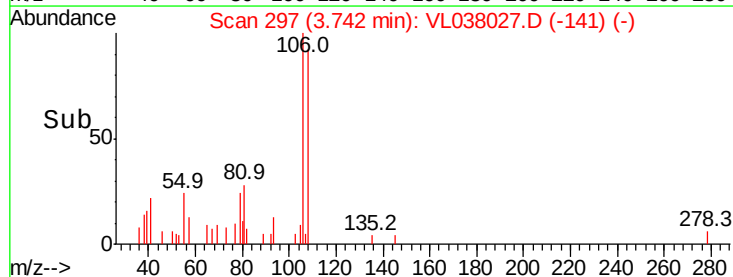
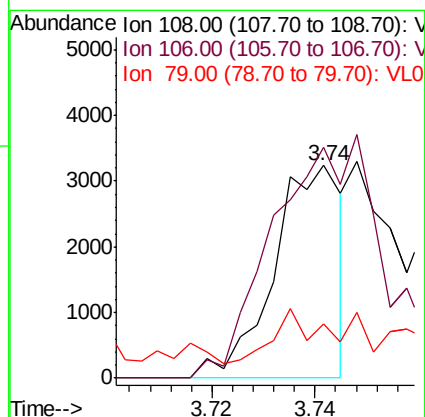
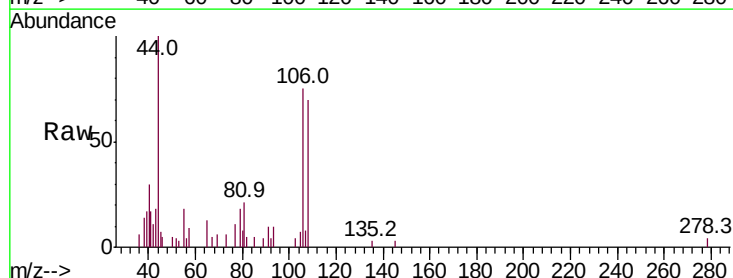
#13
 Ethanol
 Concen: 0.145 ppbv
 RT: 3.63
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Nov 2021 4:19

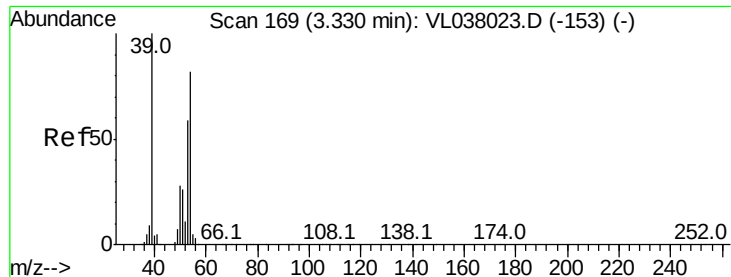
Tot Ion: 45 Resp: 928
 Ion Ratio Lower Upper
 45 100
 46 78.4 15.5 61.9#



#14
 Bromoethene
 Concen: 0.065 ppbv
 RT: 3.74 min Scan# 297
 Delta R.T. 0.00 min
 Lab File: VL038027.D
 Acq: 16 Nov 2021 4:19

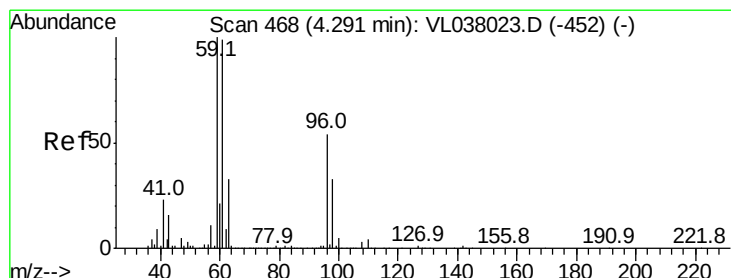
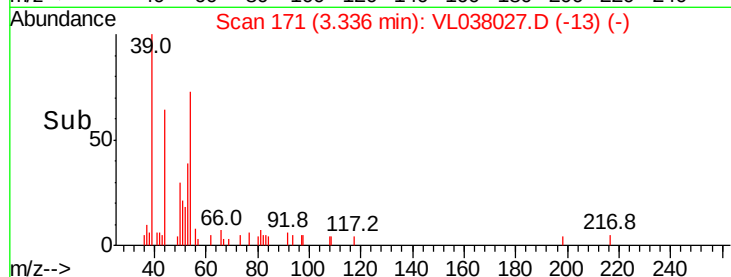
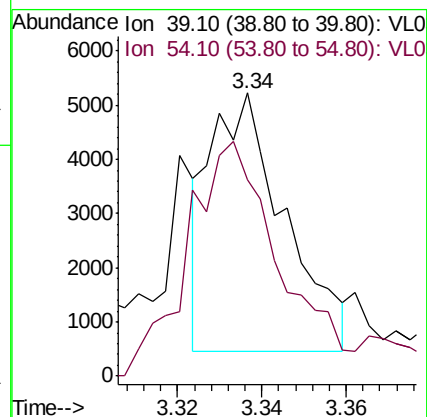
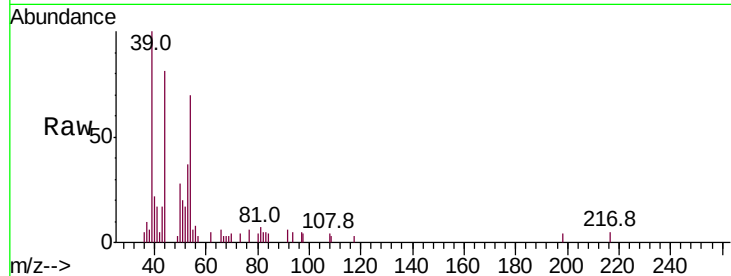
Tgt Ion:108 Resp: 2959
 Ion Ratio Lower Upper
 108 100
 106 0.0 90.4 135.6#
 79 87.6 14.1 21.1#





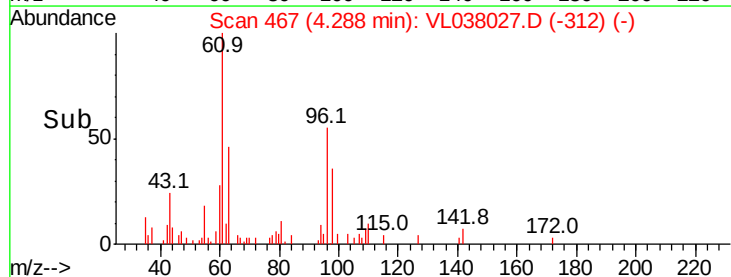
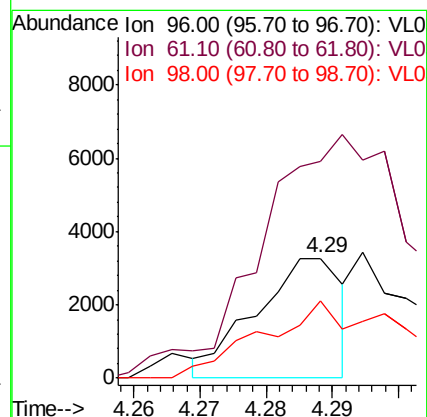
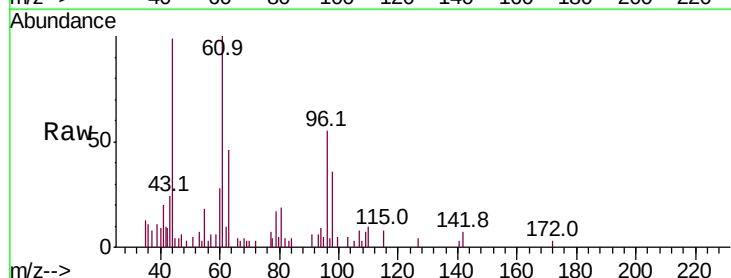
#16
 1,3-Butadiene
 Concen: 0.093 ppbv
 RT: 3.34
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Nov 2021 4:19

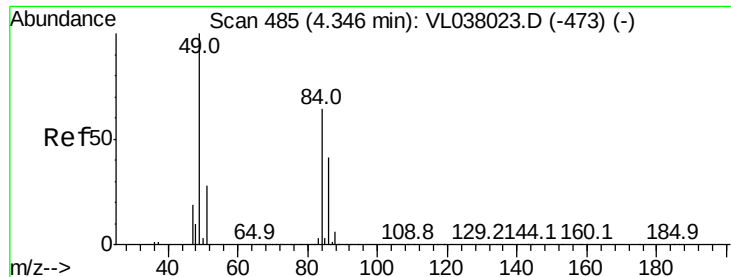
Tot Ion: 39 Resp: 5851
 Ion Ratio Lower Upper
 39 100
 54 133.5 63.8 95.8#



#18
 1,1-Dichloroethene
 Concen: 0.060 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. -0.00 min
 Lab File: VL038027.D
 Acq: 16 Nov 2021 4:19

Tgt Ion: 96 Resp: 2972
 Ion Ratio Lower Upper
 96 100
 61 188.5 145.2 217.8
 98 65.4 48.8 73.2





#20

Methylene Chloride

Concen: 0.172 ppbv

RT: 4.35

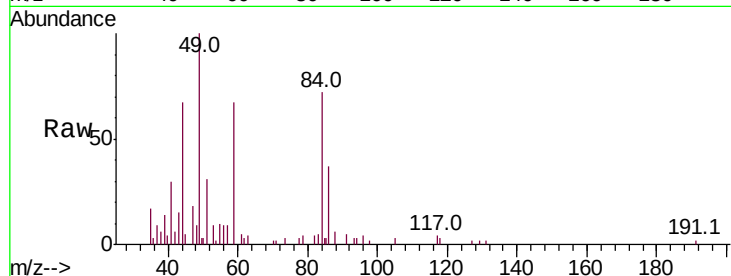
Instrument: MSVOA_1

Delta R.T.:

Lab File: ClientSampleId:

Acq: 16 Nov 2021 4:19

Tot Ion:	84	Resp:	7553
Ion	Ratio	Lower	Upper
84	100		
49	147.8	125.1	187.7
51	44.8	35.3	52.9
86	54.6	51.7	77.5

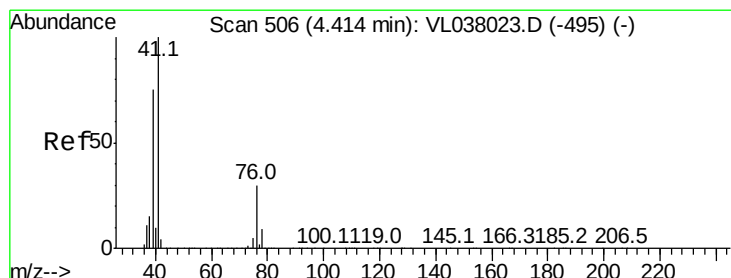
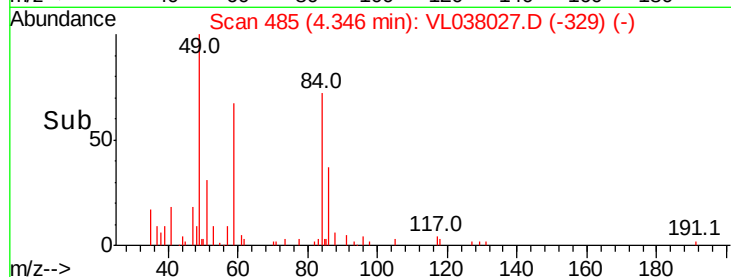
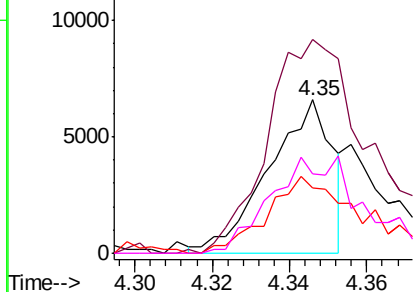


Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.125 ppbv

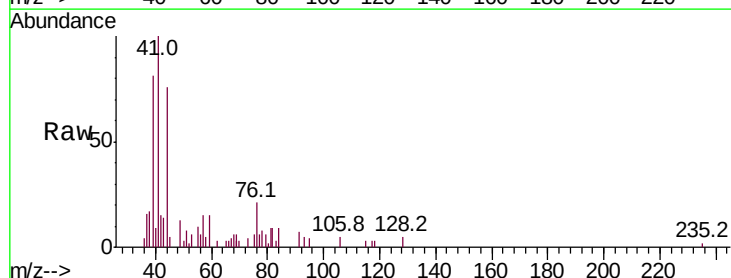
RT: 4.41 min Scan# 505

Delta R.T. -0.00 min

Lab File: VL038027.D

Acq: 16 Nov 2021 4:19

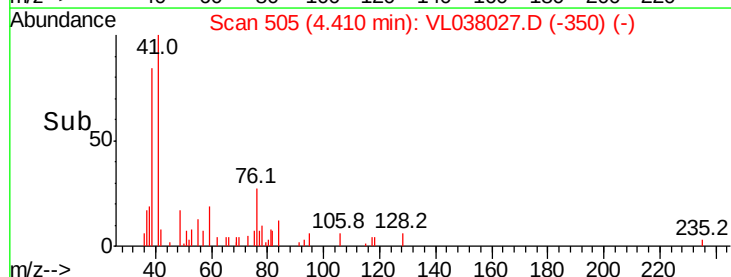
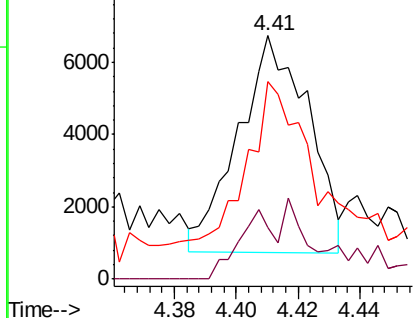
Tgt Ion:	41	Resp:	9455
Ion	Ratio	Lower	Upper
41	100		
76	41.9	24.6	37.0#
39	94.0	60.6	90.8#

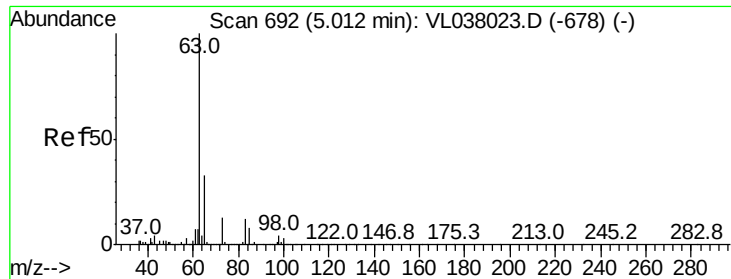


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

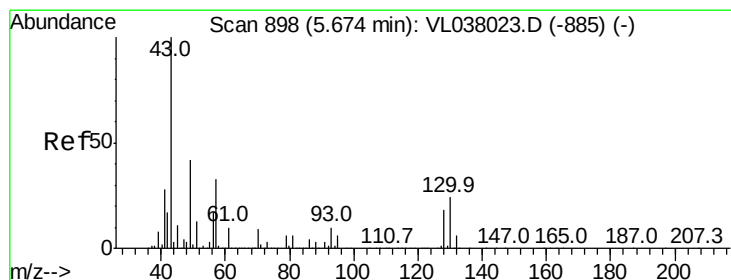
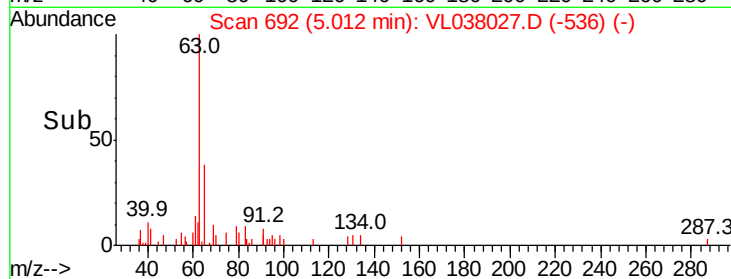
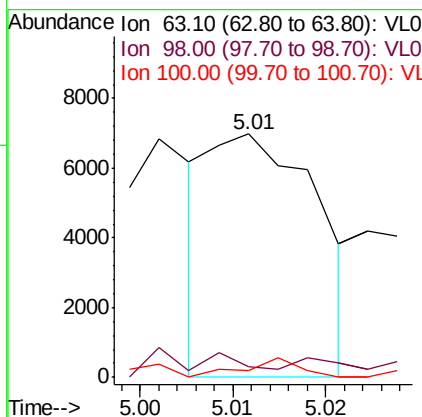
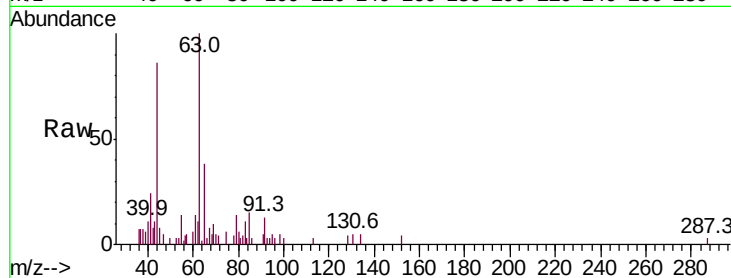
Ion 39.10 (38.80 to 39.80): VL0





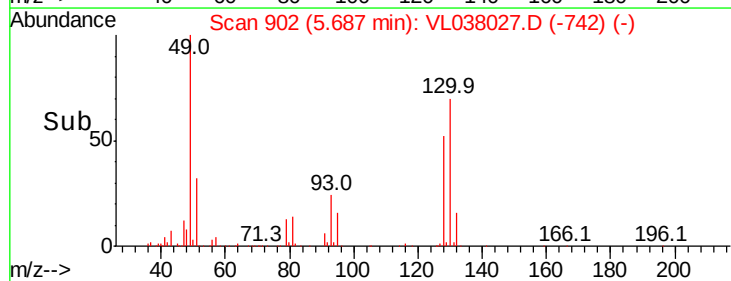
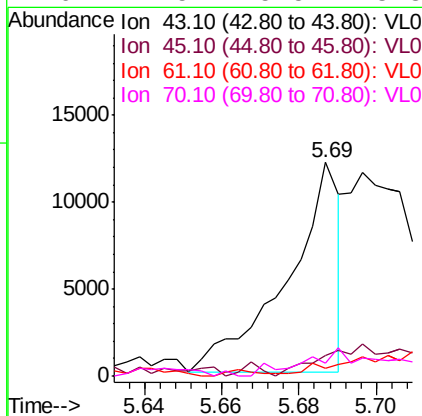
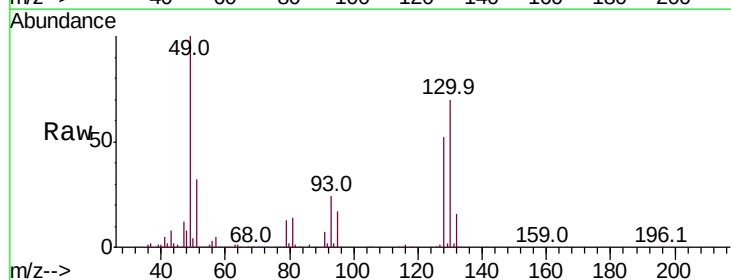
#24
 1,1-Dichloroethane
 Concen: 0.056 ppbv
 RT: 5.01 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 16 Nov 2021 4:19

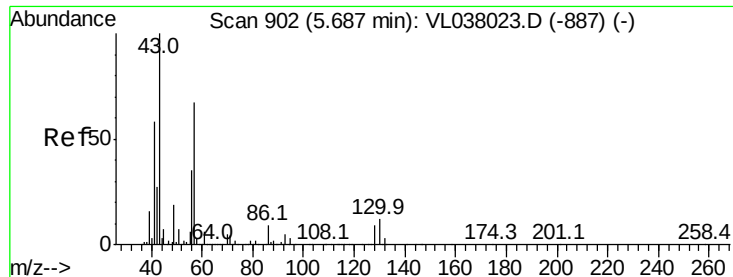
Tot Ion:	63	Resp:	5687
Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.3	6.9
100	5.6	1.5	4.4#



#25
 Ethyl Acetate
 Concen: 0.051 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.01 min
 Lab File: VL038027.D
 Acq: 16 Nov 2021 4:19

Tgt Ion:	43	Resp:	11525
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	0.0	7.7	11.5#
70	24.5	5.5	8.3#





#26

Hexane

Concen: 0.129 ppbv

RT: 5.68

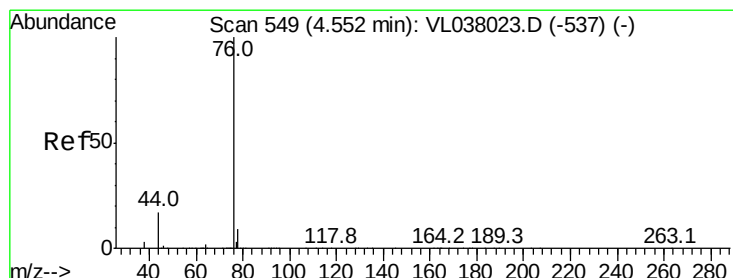
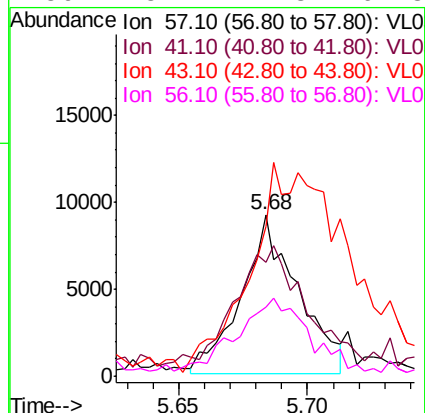
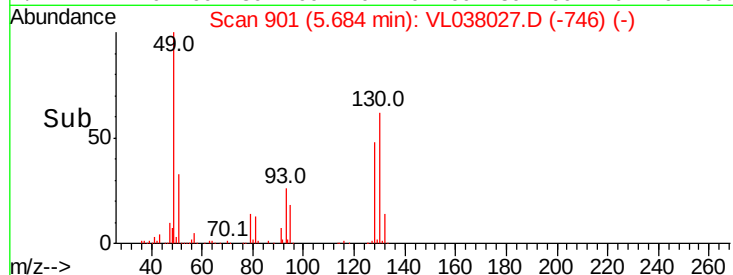
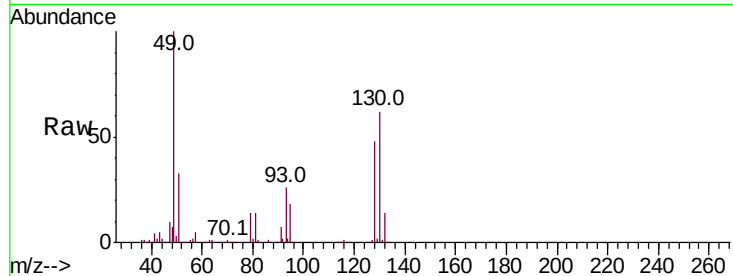
Delta R.T. MSVOA_L

Lab File:

Acq: 16 Nov 2021 4:19

Tot Ion: 57 Resp: 13880

Ion	Ratio	Lower	Upper
57	100		
41	97.7	70.8	106.2
43	226.3	169.4	254.0
56	75.2	41.8	62.8#



#27

Carbon Disulfide

Concen: 0.063 ppbv

RT: 4.55 min Scan# 548

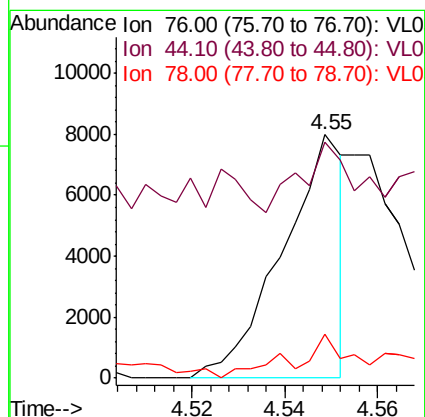
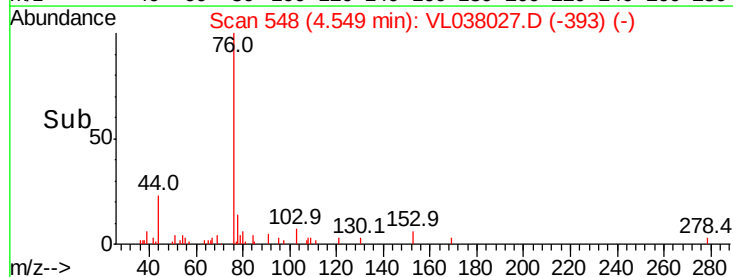
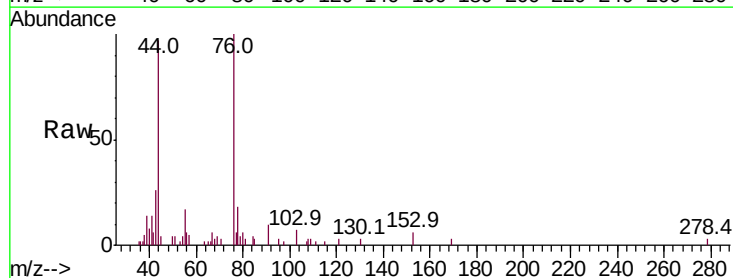
Delta R.T. -0.00 min

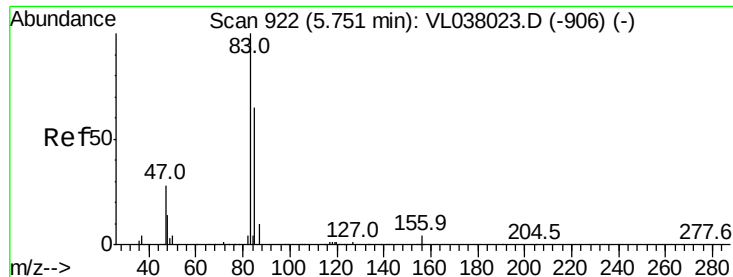
Lab File: VL038027.D

Acq: 16 Nov 2021 4:19

Tgt Ion: 76 Resp: 7235

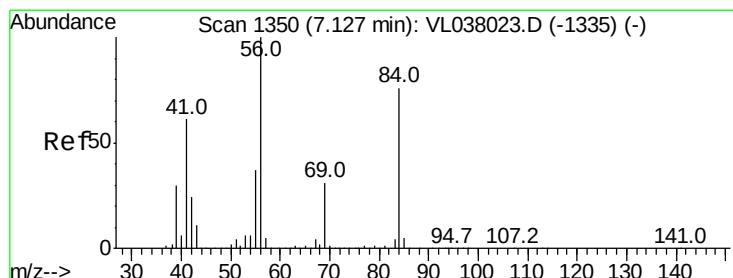
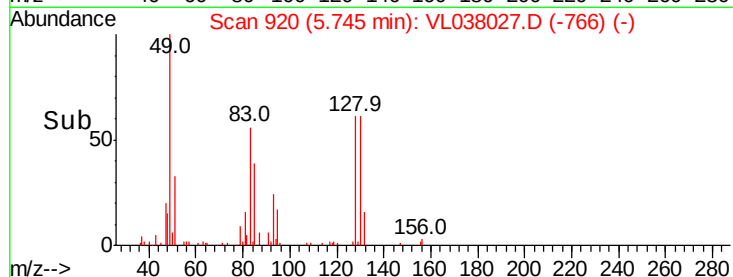
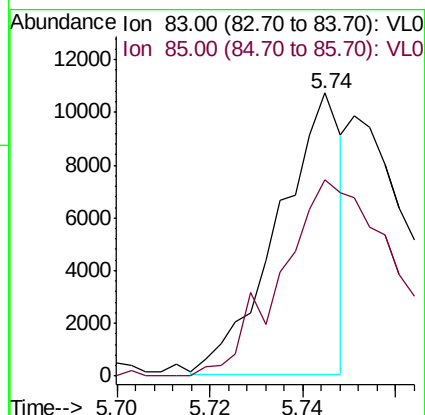
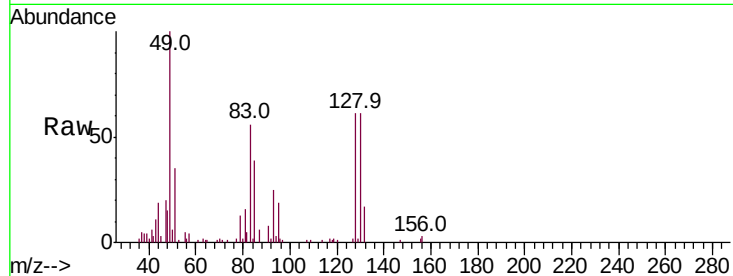
Ion	Ratio	Lower	Upper
76	100		
44	65.9	15.0	22.6#
78	21.8	7.8	11.6#





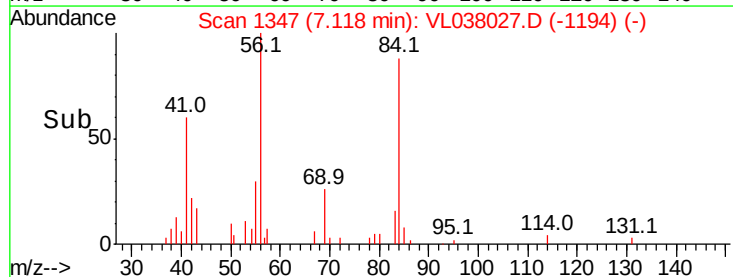
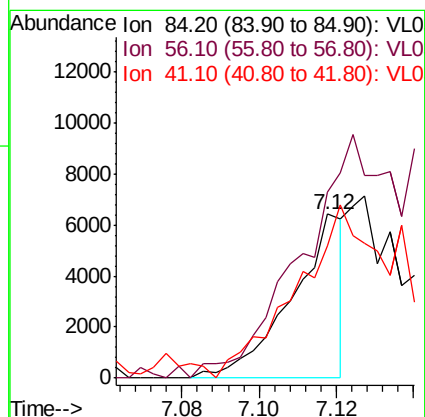
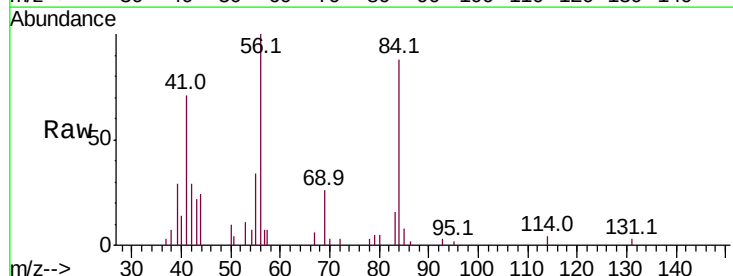
#29
Chloroform
Concen: 0.061 ppbv
RT: 5.74
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Nov 2021 4:19

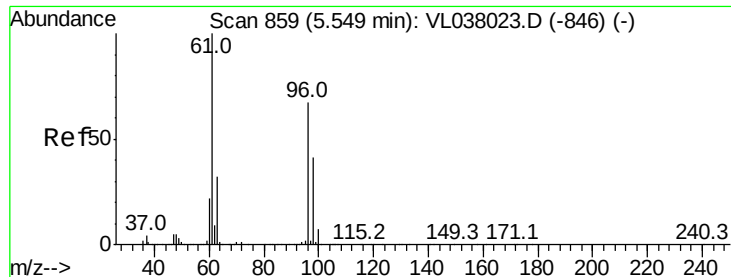
Tot Ion: 83 Resp: 10167
Ion Ratio Lower Upper
83 100
85 70.4 52.1 78.1



#30
Cyclohexane
Concen: 0.060 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.01 min
Lab File: VL038027.D
Acq: 16 Nov 2021 4:19

Tgt Ion: 84 Resp: 5926
Ion Ratio Lower Upper
84 100
56 0.0 109.4 164.2#
41 227.2 65.8 98.6#





#31

cis-1,2-Dichloroethene

Concen: 0.040 ppbv

RT: 5.54

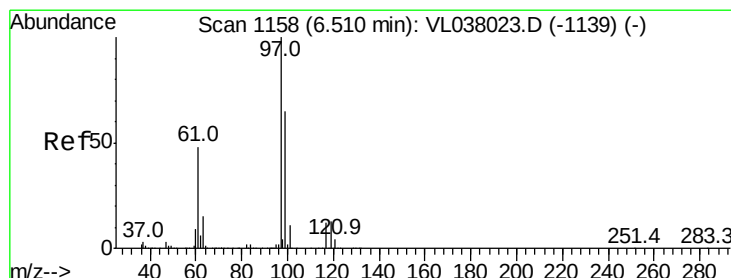
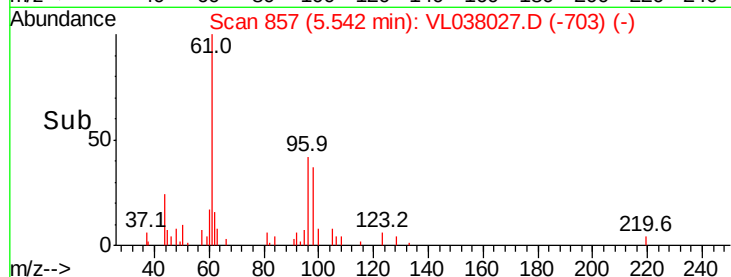
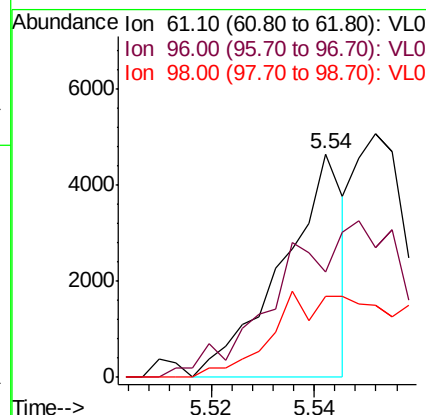
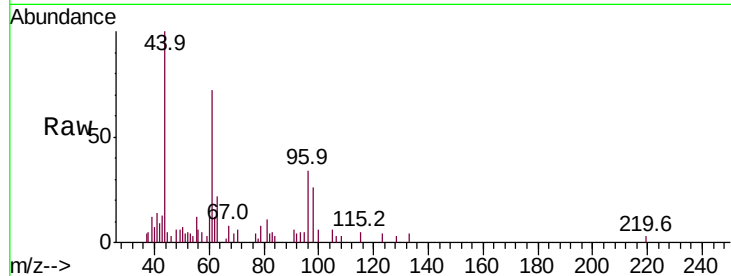
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Nov 2021 4:19

Tot Ion: 61 Resp: 3850

Ion	Ratio	Lower	Upper
61	100		
96	43.0	53.9	80.9#
98	36.5	32.8	49.2



#32

1,1,1-Trichloroethane

Concen: 0.080 ppbv

RT: 6.51 min Scan# 1158

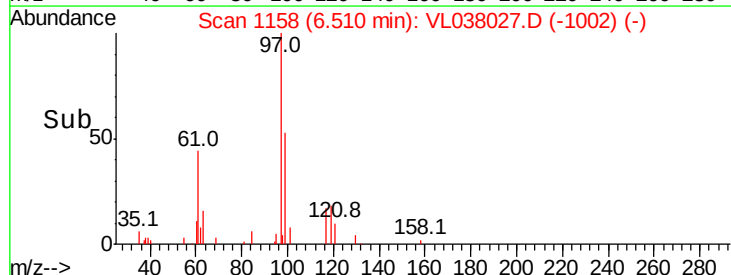
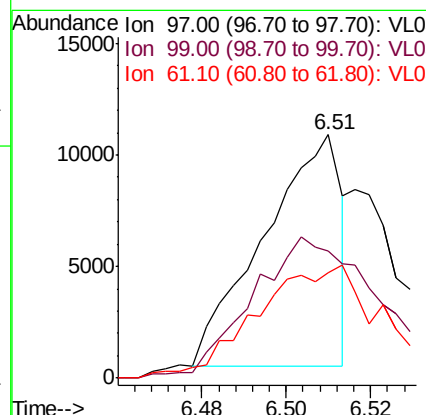
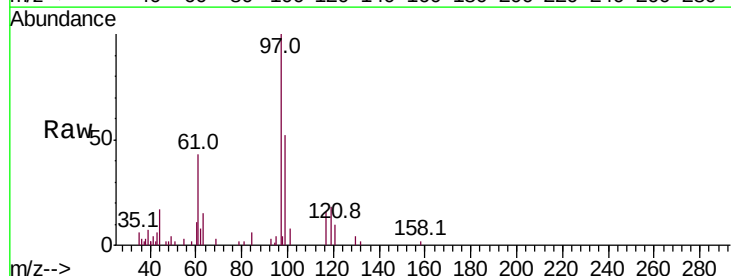
Delta R.T. -0.00 min

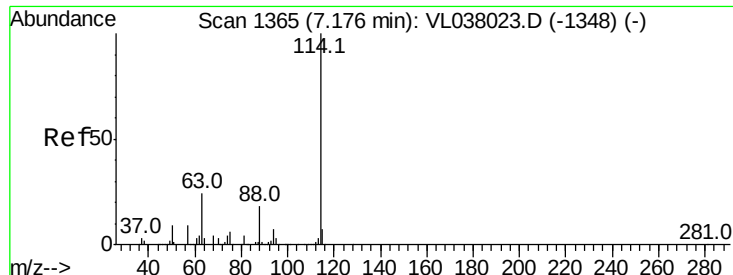
Lab File: VL038027.D

Acq: 16 Nov 2021 4:19

Tgt Ion: 97 Resp: 13234

Ion	Ratio	Lower	Upper
97	100		
99	105.3	51.9	77.9#
61	0.0	37.9	56.9#

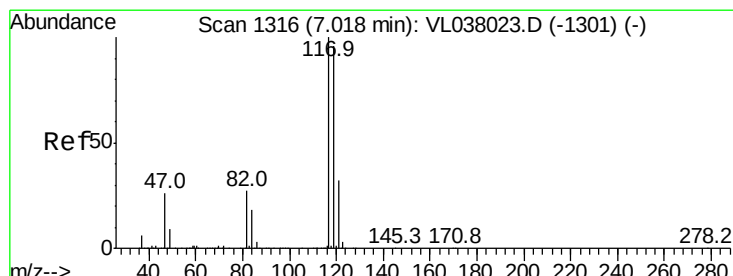
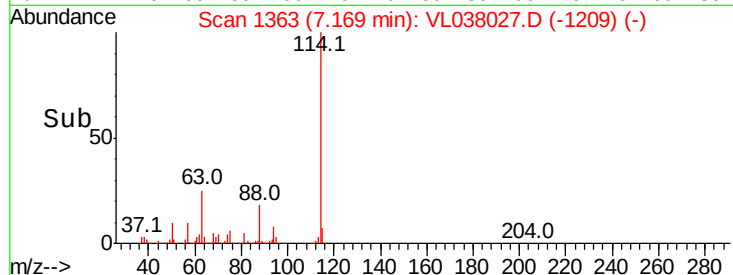
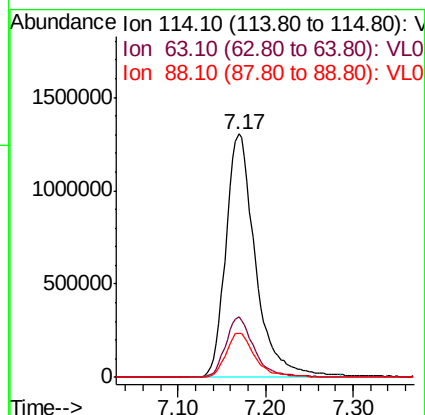
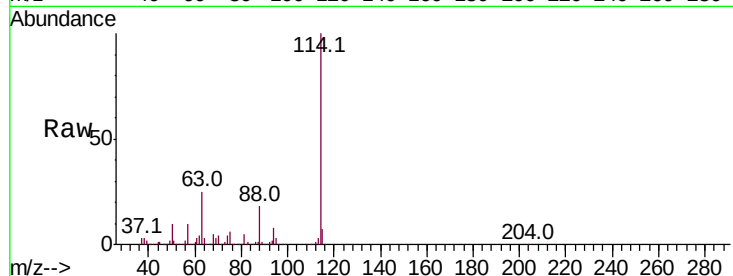




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Nov 2021 4:19

Tot Ion:114 Resp: 3066541

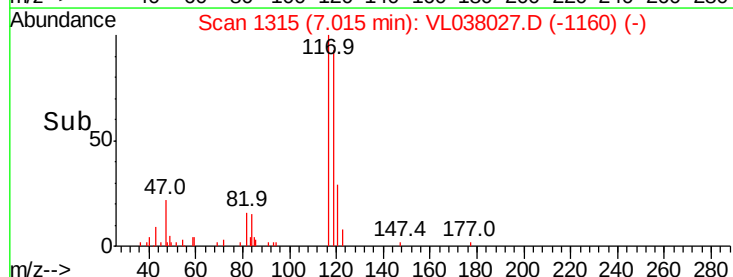
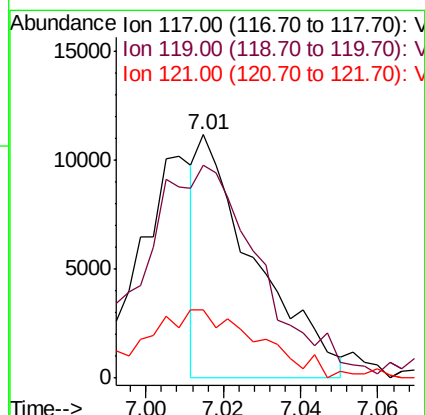
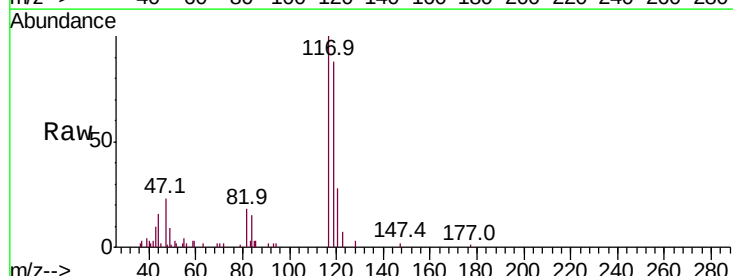
Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.8	29.6
88	18.3	14.6	21.8

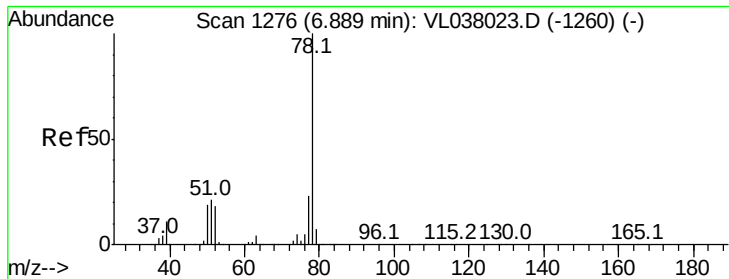


#35
 Carbon Tetrachloride
 Concen: 0.061 ppbv
 RT: 7.01 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VL038027.D
 Acq: 16 Nov 2021 4:19

Tgt Ion:117 Resp: 11467

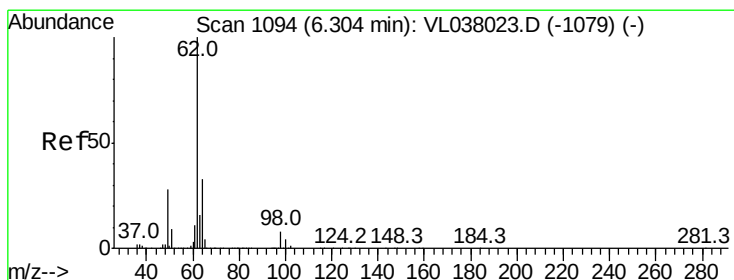
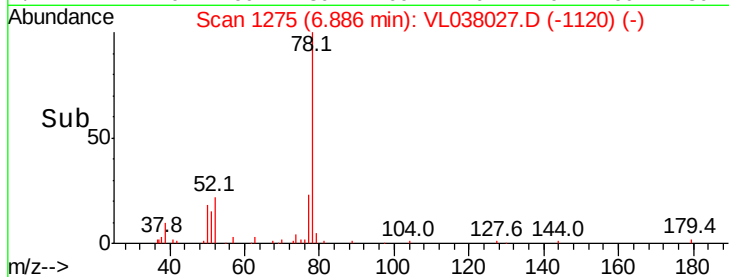
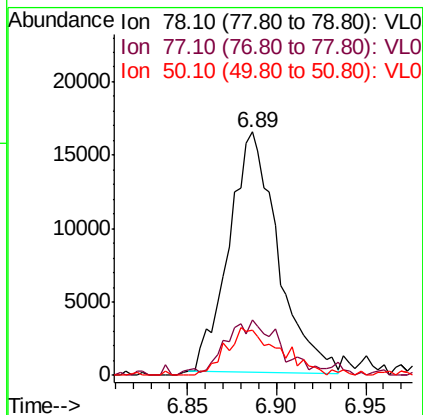
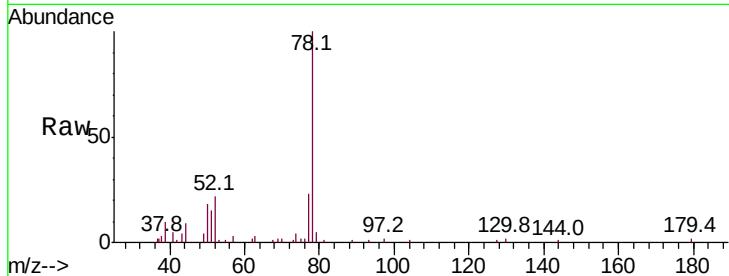
Ion	Ratio	Lower	Upper
117	100		
119	88.9	76.5	114.7
121	27.5	25.3	37.9





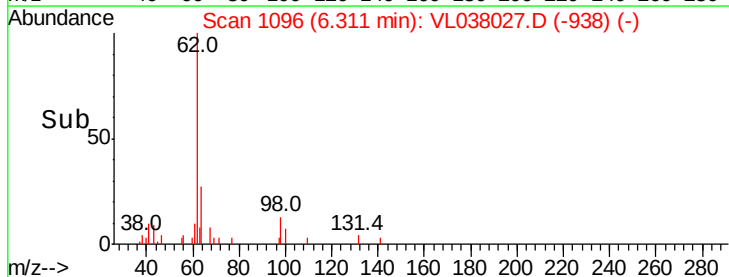
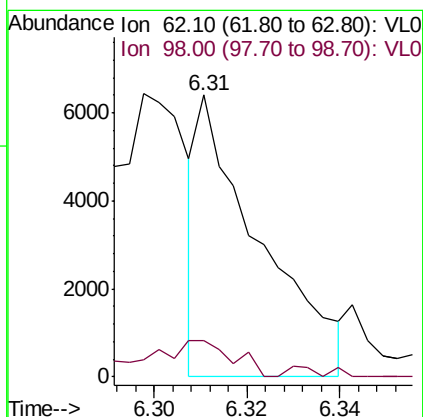
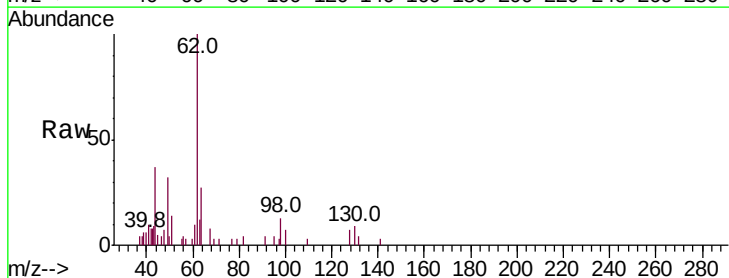
#36
Benzene
Concen: 0.124 ppbv
RT: 6.89
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Nov 2021 4:19

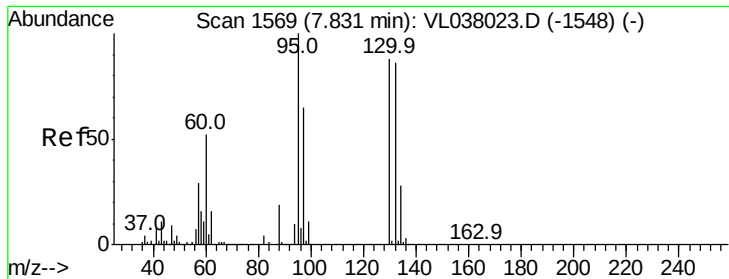
Tot Ion	78	Resp	31323
Ion	Ratio	Lower	Upper
78	100		
77	21.3	18.8	28.2
50	18.8	14.9	22.3



#37
1,2-Dichloroethane
Concen: 0.049 ppbv
RT: 6.31 min Scan# 1096
Delta R.T. 0.01 min
Lab File: VL038027.D
Acq: 16 Nov 2021 4:19

Tgt Ion	62	Resp	5938
Ion	Ratio	Lower	Upper
62	100		
98	22.4	5.9	8.9#





#38

Trichloroethene

Concen: 0.113 ppbv

RT: 7.83 Instrument:

Delta R.T. MSVOA_1

Lab File:

ClientSampleId:

Acq: 16 Nov 2021 4:19

Tot Ion:130 Resp: 11735

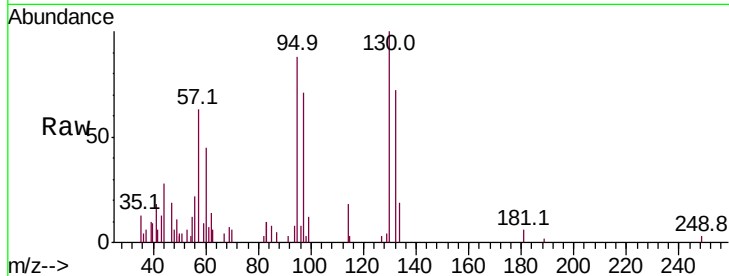
Ion Ratio Lower Upper

130 100

95 80.3 90.5 135.7#

132 64.2 77.4 116.0#

97 67.8 59.2 88.8

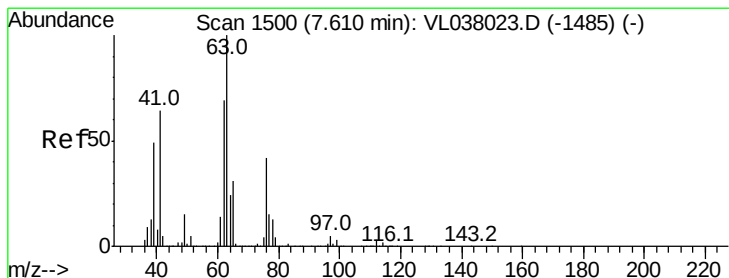
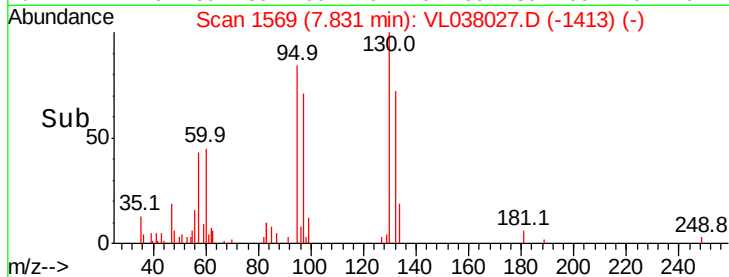
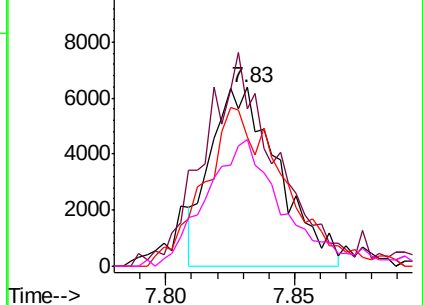


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.078 ppbv

RT: 7.61 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VL038027.D

Acq: 16 Nov 2021 4:19

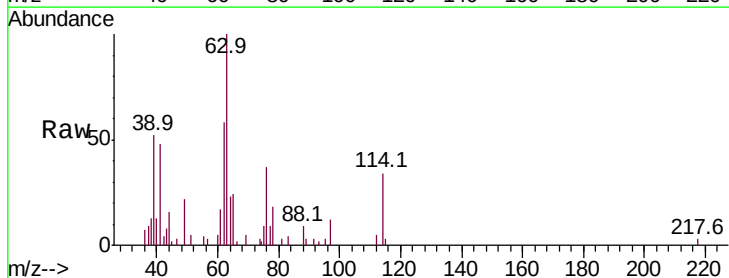
Tgt Ion: 63 Resp: 7567

Ion Ratio Lower Upper

63 100

41 44.9 51.1 76.7#

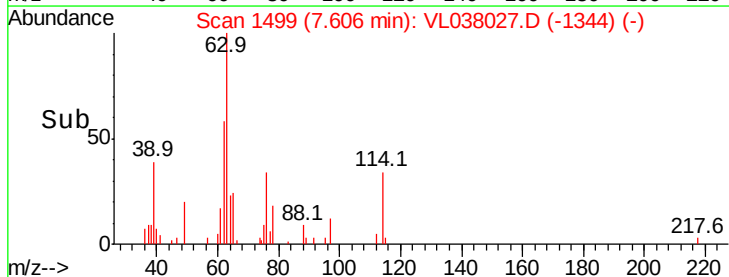
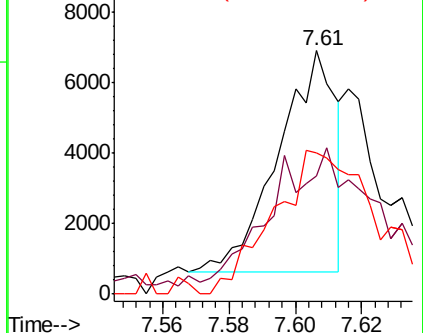
62 49.0 55.2 82.8#

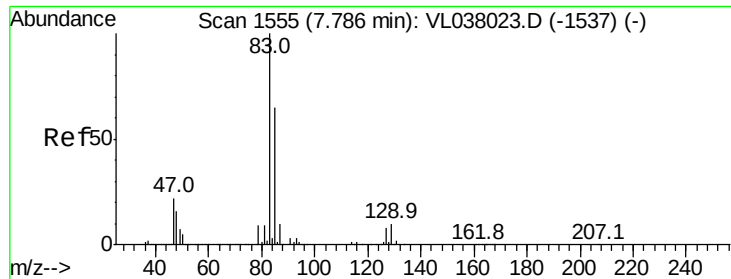


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.070 ppbv

RT: 7.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Nov 2021 4:19

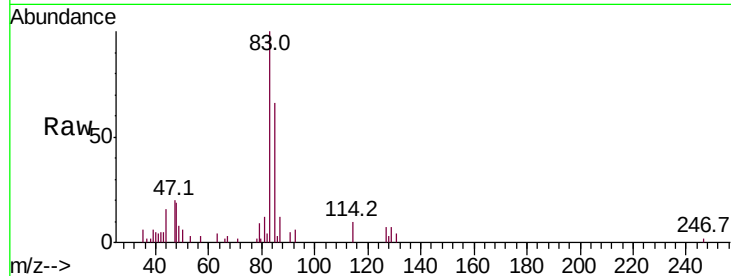
Tot Ion: 83 Resp: 12941

Ion Ratio Lower Upper

83 100

85 65.0 51.6 77.4

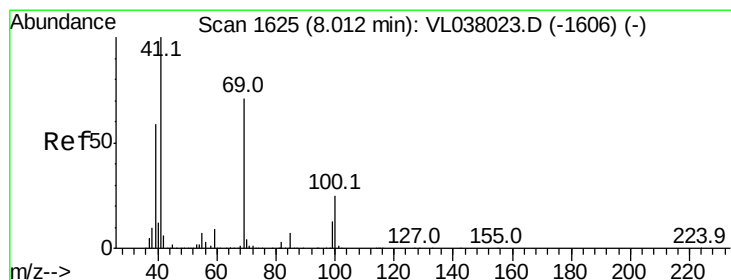
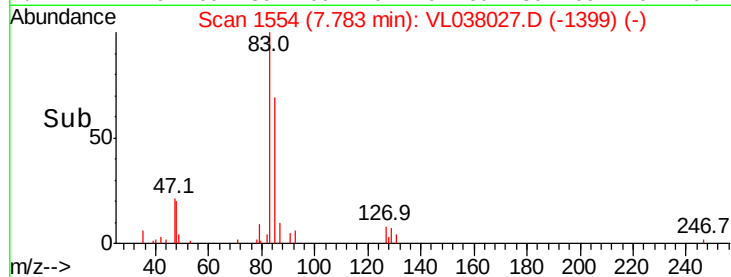
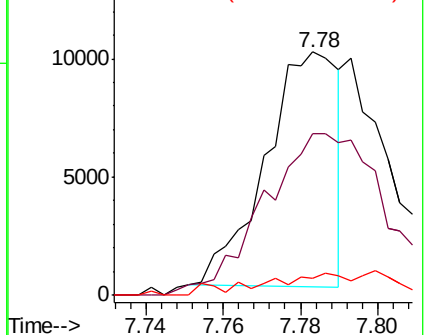
127 7.6 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.058 ppbv

RT: 8.02 min Scan# 1628

Delta R.T. 0.01 min

Lab File: VL038027.D

Acq: 16 Nov 2021 4:19

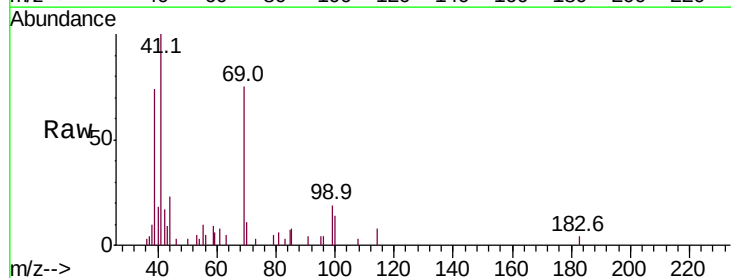
Tgt Ion: 69 Resp: 4875

Ion Ratio Lower Upper

69 100

41 388.1 116.1 174.1#

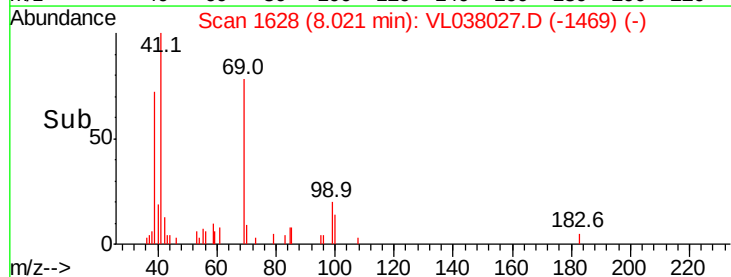
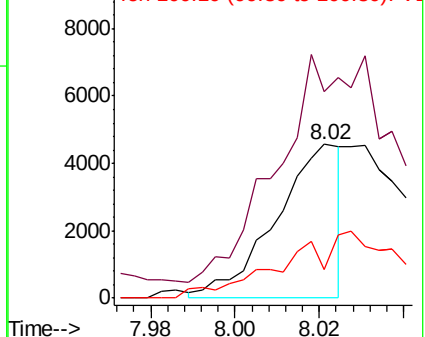
100 0.0 27.1 40.7#

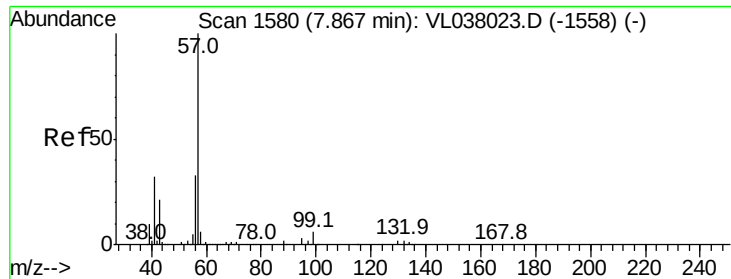


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.133 ppbv

RT: 7.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Nov 2021 4:19

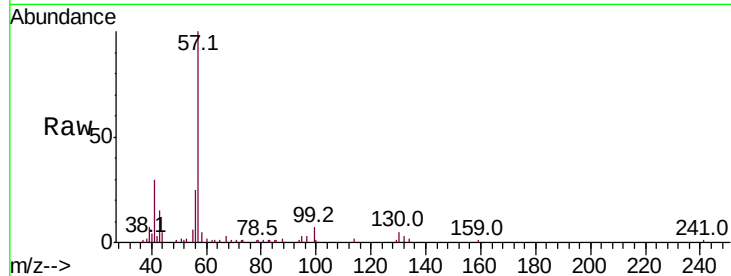
Tot Ion: 57 Resp: 57021

Ion Ratio Lower Upper

57 100

41 39.2 26.3 39.5

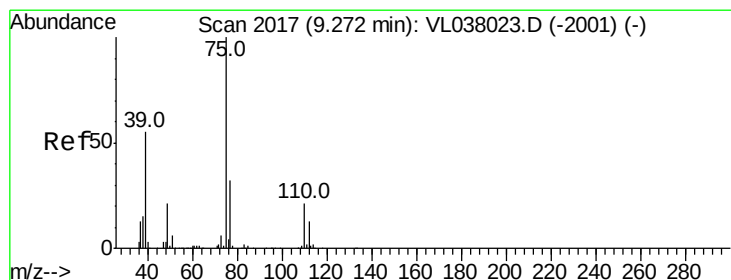
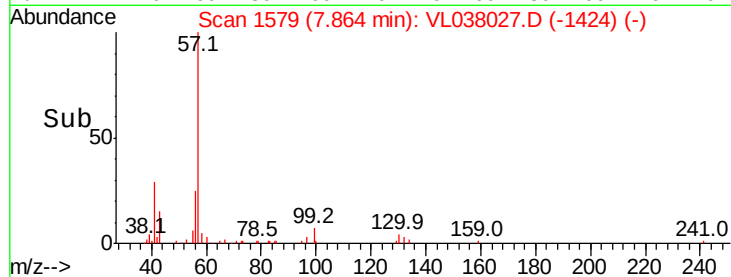
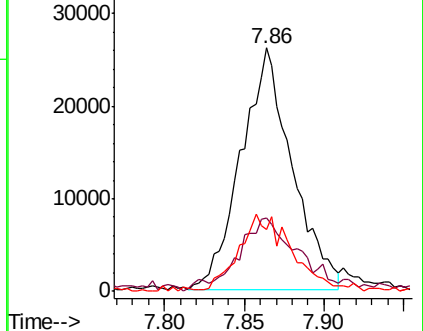
56 34.7 25.6 38.4



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#45

t-1,3-Dichloropropene

Concen: 0.050 ppbv

RT: 9.28 min Scan# 2019

Delta R.T. 0.01 min

Lab File: VL038027.D

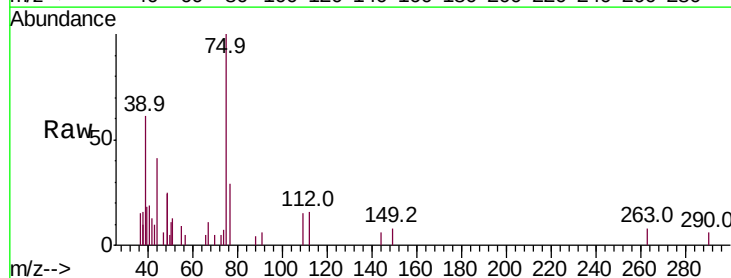
Acq: 16 Nov 2021 4:19

Tgt Ion: 75 Resp: 3185

Ion Ratio Lower Upper

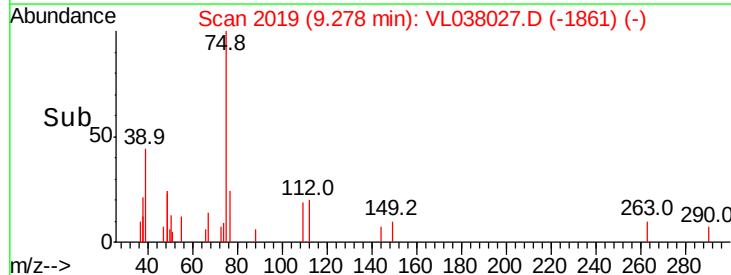
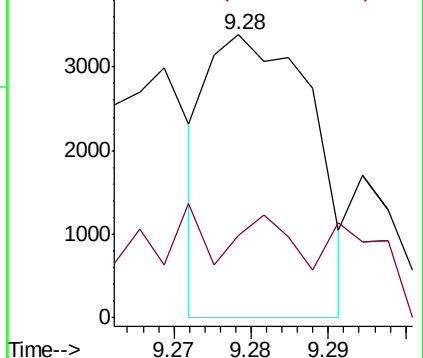
75 100

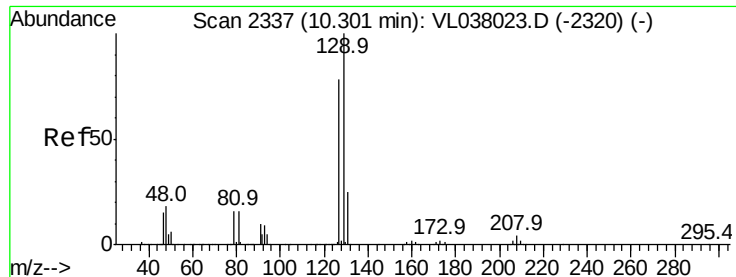
77 29.3 25.6 38.4



Abundance Ion 75.10 (74.80 to 75.80): VL0

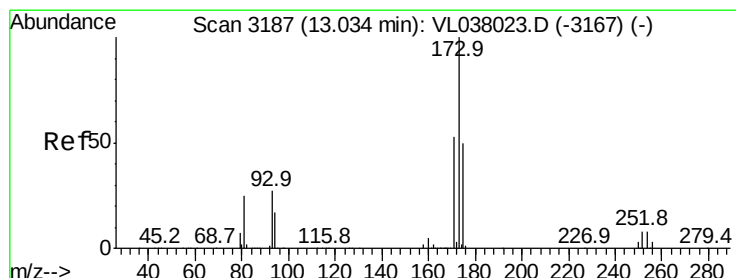
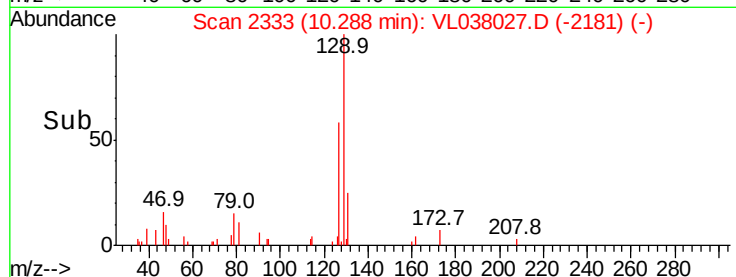
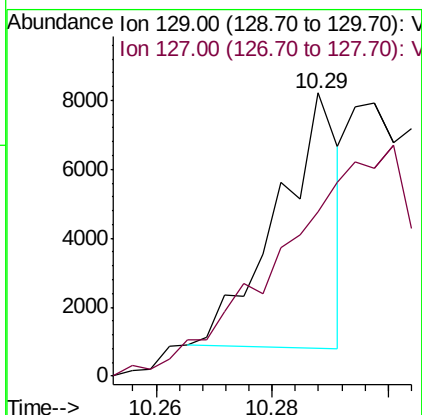
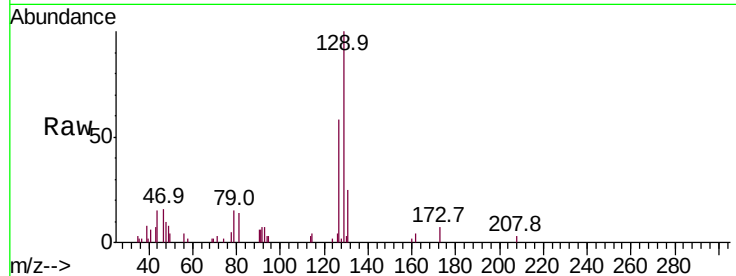
Ion 77.10 (76.80 to 77.80): VL0





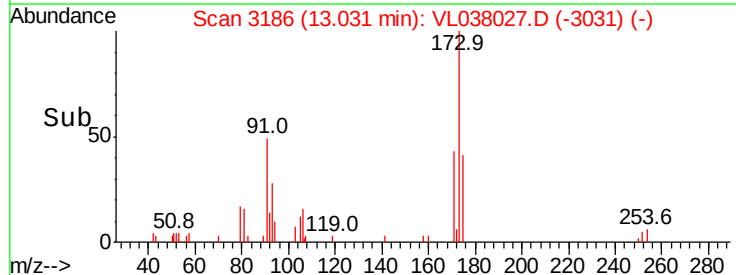
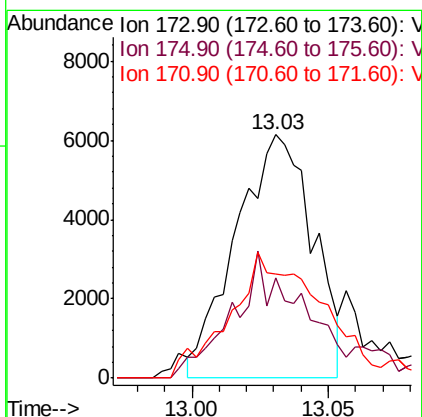
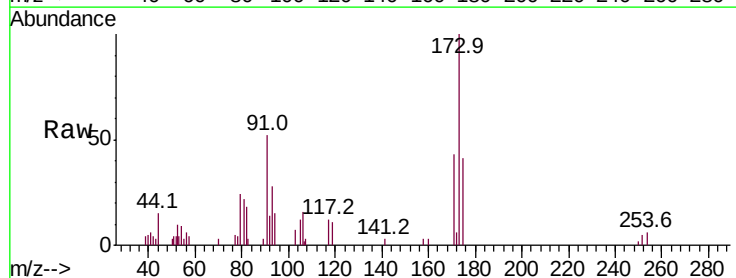
#48
 Dibromochloromethane
 Concen: 0.036 ppbv
 RT: 10.29
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Nov 2021 4:19

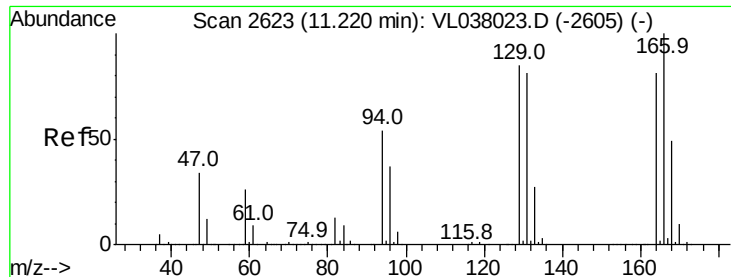
Tot Ion:129 Resp: 5434
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.8 119.3#



#49
 Bromoform
 Concen: 0.100 ppbv
 RT: 13.03 min Scan# 3186
 Delta R.T. -0.00 min
 Lab File: VL038027.D
 Acq: 16 Nov 2021 4:19

Tgt Ion:173 Resp: 12037
 Ion Ratio Lower Upper
 173 100
 175 55.1 41.5 62.3
 171 63.2 43.7 65.5





#52

Tetrachloroethene

Concen: 0.062 ppbv

RT: 11.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Nov 2021 4:19

Tot Ion:164 Resp: 5884

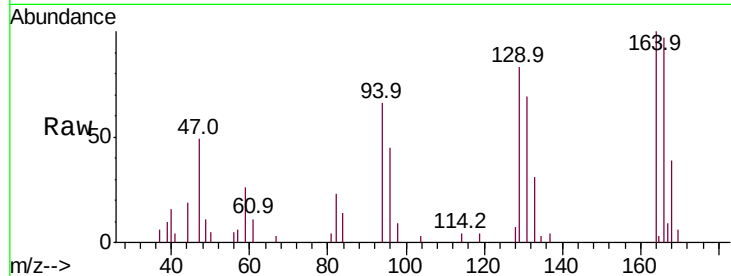
Ion Ratio Lower Upper

164 100

166 97.2 98.6 148.0#

129 65.8 84.1 126.1#

131 64.0 79.8 119.8#



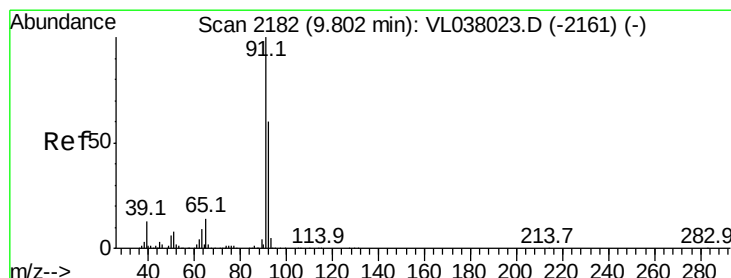
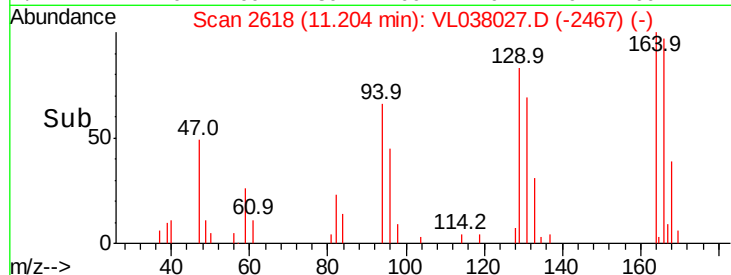
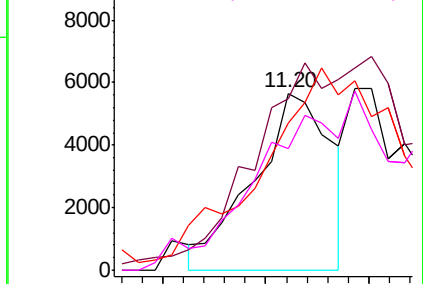
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.051 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL038027.D

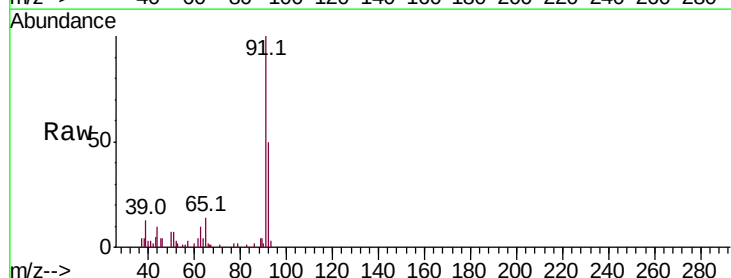
Acq: 16 Nov 2021 4:19

Tgt Ion: 91 Resp: 13781

Ion Ratio Lower Upper

91 100

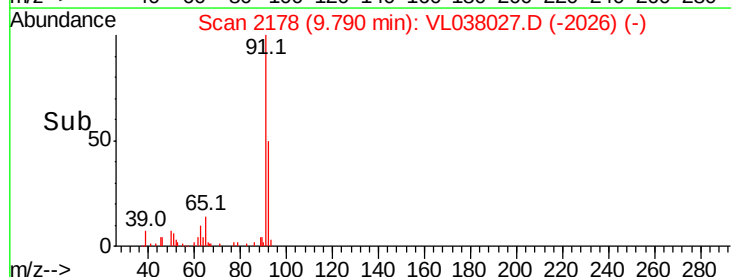
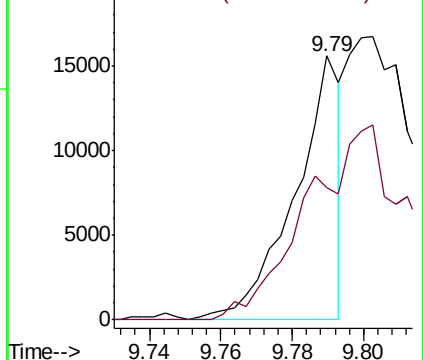
92 0.0 49.4 74.2#

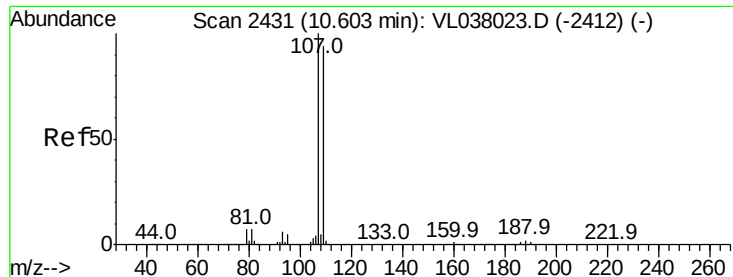


Abundance

Ion 91.10 (90.80 to 91.80): VL0

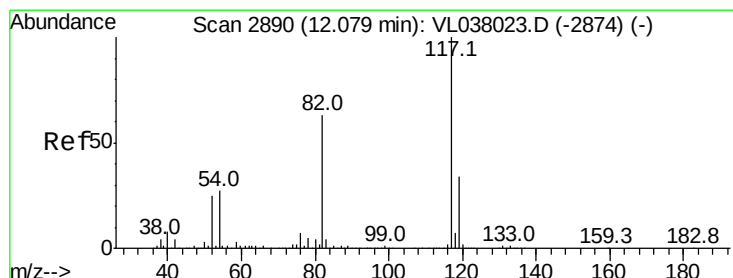
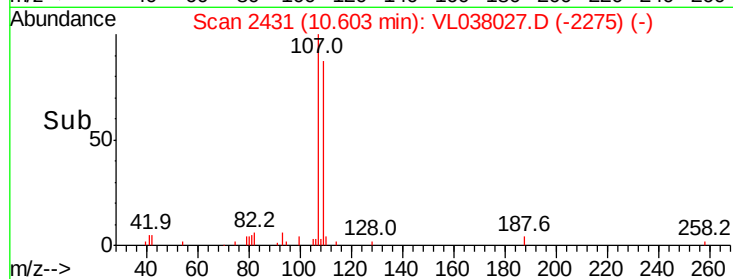
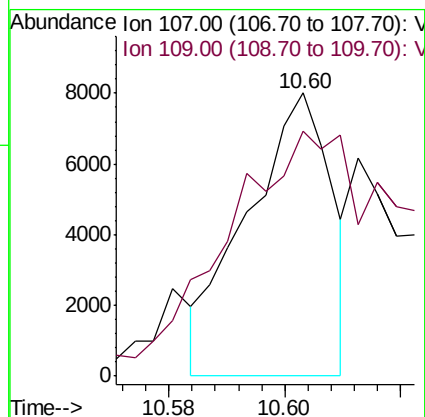
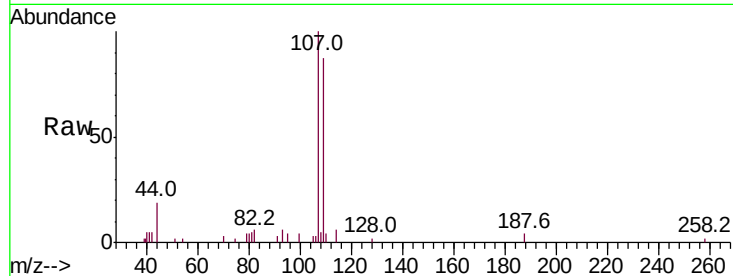
Ion 92.10 (91.80 to 92.80): VL0





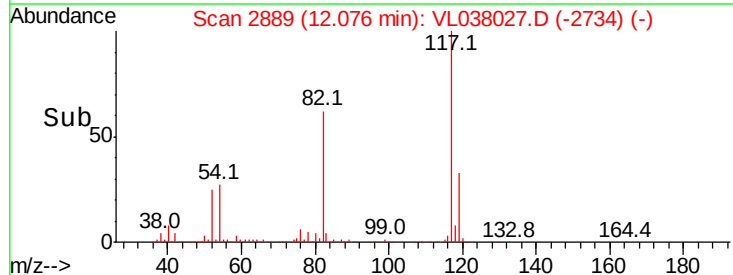
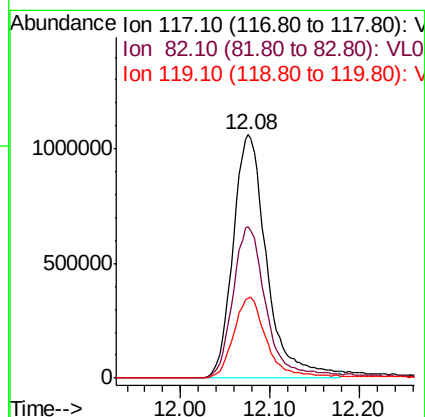
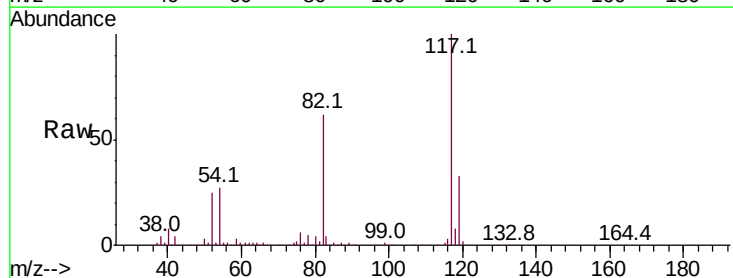
#54
 1,2-Dibromoethane
 Concen: 0.059 ppbv
 RT: 10.60 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 16 Nov 2021 4:19

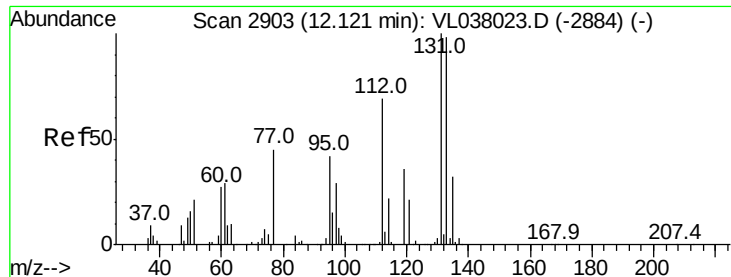
Tot Ion:107 Resp: 8105
 Ion Ratio Lower Upper
 107 100
 109 69.7 75.0 112.6#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min Scan# 2889
 Delta R.T. -0.00 min
 Lab File: VL038027.D
 Acq: 16 Nov 2021 4:19

Tgt Ion:117 Resp: 2783949
 Ion Ratio Lower Upper
 117 100
 82 64.2 50.0 75.0
 119 34.7 44.9 67.3#





#56

1,1,1,2-Tetrachloroethane

Concen: 0.037 ppbv

RT: 12.12 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Nov 2021 4:19

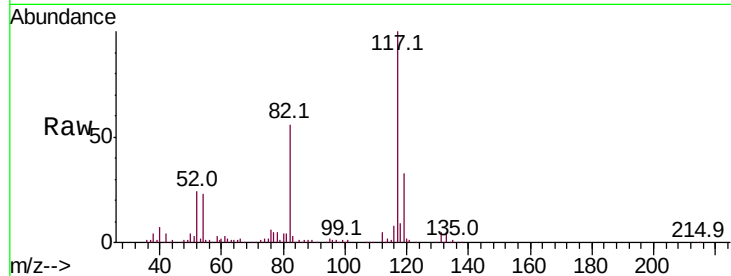
Tot Ion:131 Resp: 4095

Ion Ratio Lower Upper

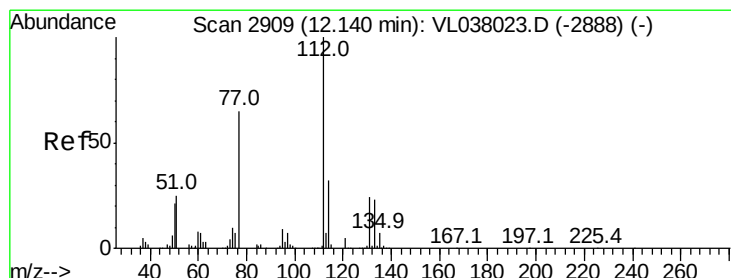
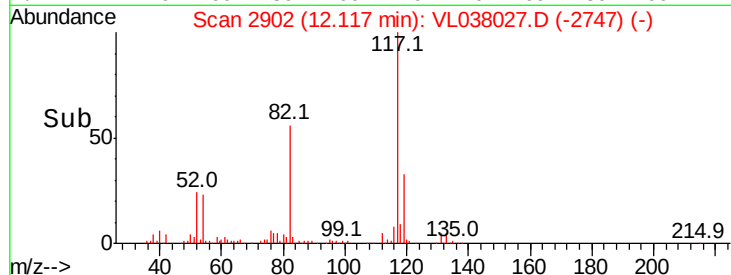
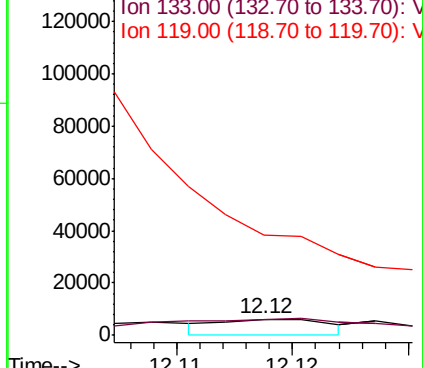
131 100

133 342.8 77.8 116.8#

119 0.0 121.1 181.7#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#57

Chlorobenzene

Concen: 0.096 ppbv

RT: 12.14 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VL038027.D

Acq: 16 Nov 2021 4:19

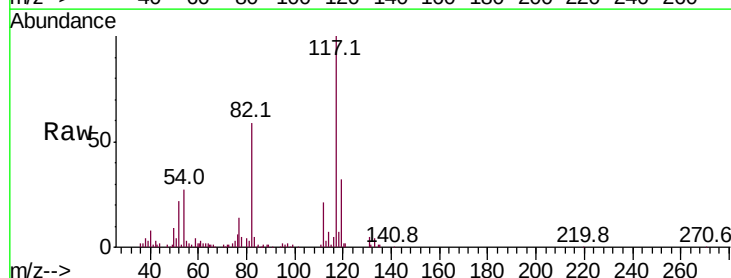
Tgt Ion:112 Resp: 21065

Ion Ratio Lower Upper

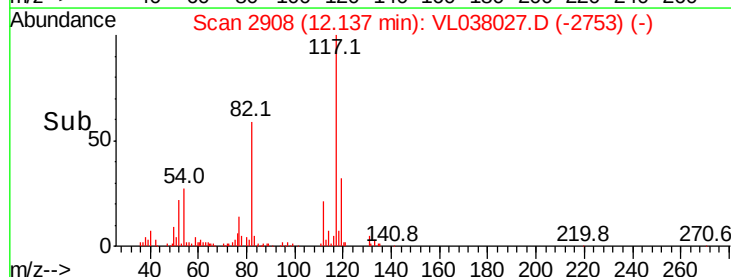
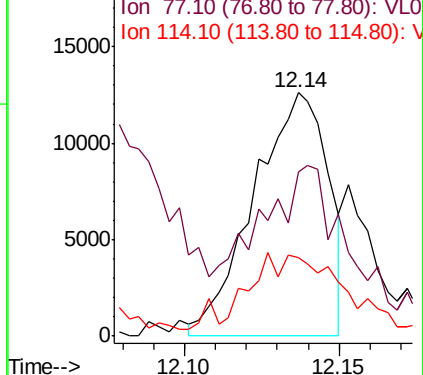
112 100

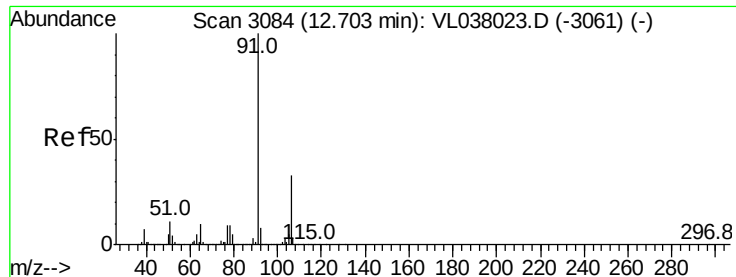
77 35.9 52.1 78.1#

114 30.8 29.1 35.5



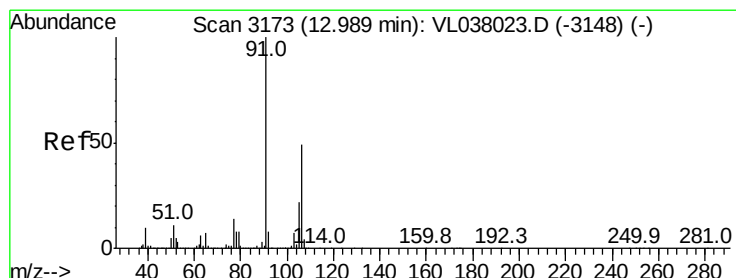
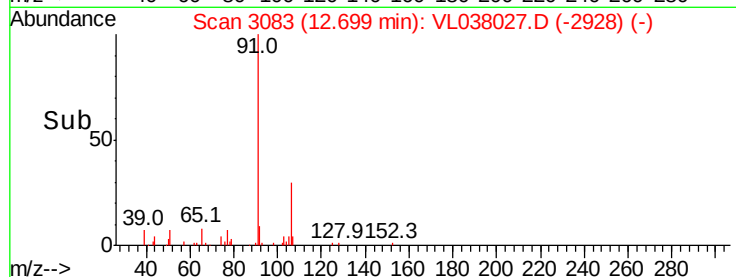
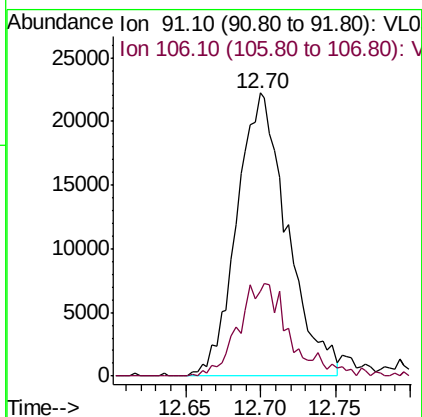
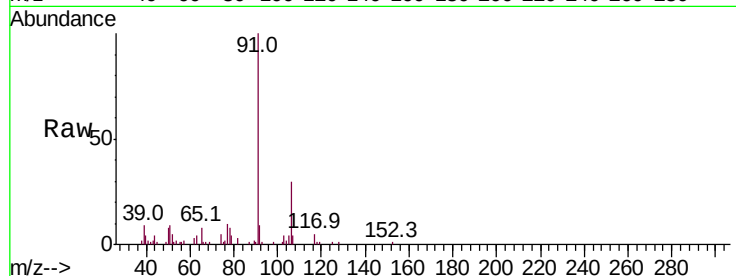
Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): V
Ion 114.10 (113.80 to 114.80): V





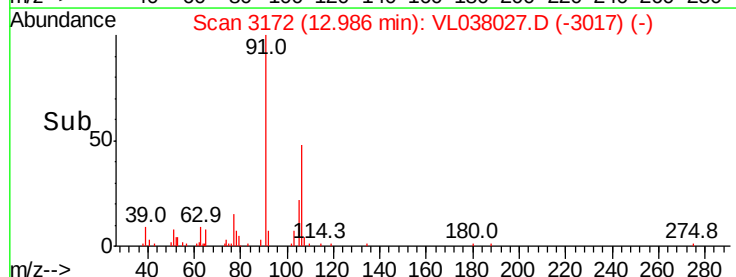
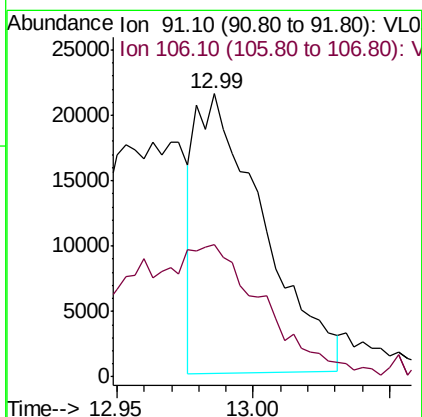
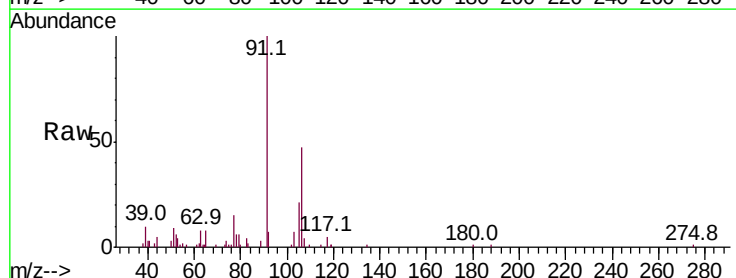
#58
Ethyl Benzene
Concen: 0.153 ppbv
RT: 12.70 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Nov 2021 4:19

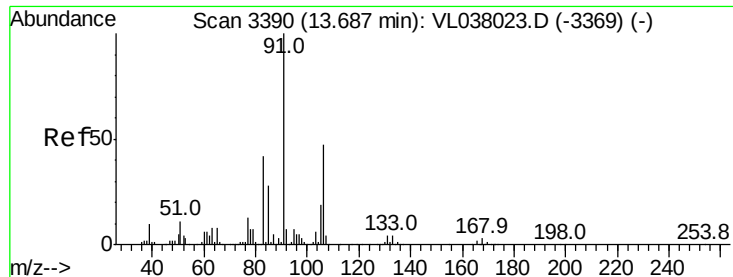
Tot Ion: 91 Resp: 52296
Ion Ratio Lower Upper
91 100
106 30.0 26.2 39.2



#59
m/p-Xylene
Concen: 0.123 ppbv
RT: 12.99 min Scan# 3172
Delta R.T. -0.00 min
Lab File: VL038027.D
Acq: 16 Nov 2021 4:19

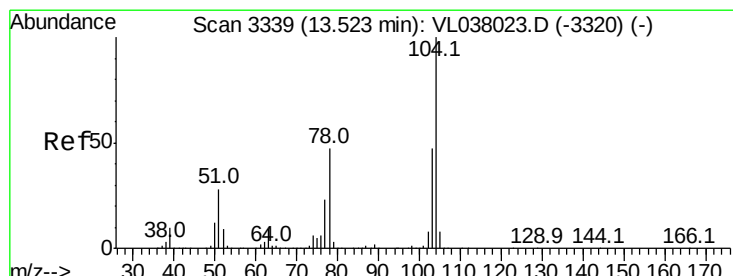
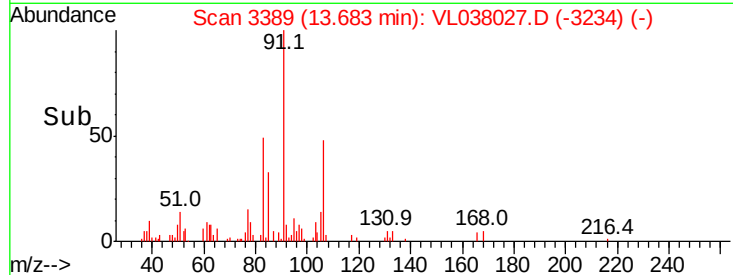
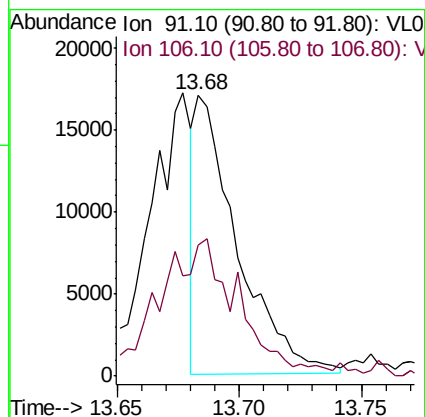
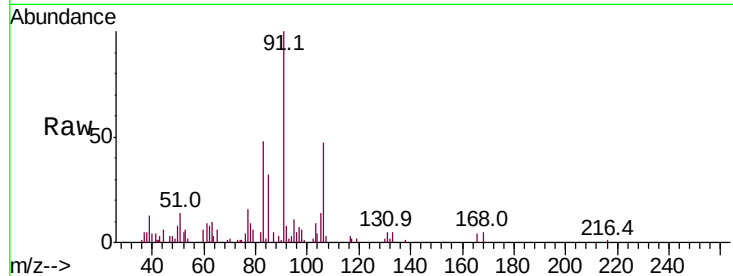
Tgt Ion: 91 Resp: 36868
Ion Ratio Lower Upper
91 100
106 104.4 38.5 57.7#





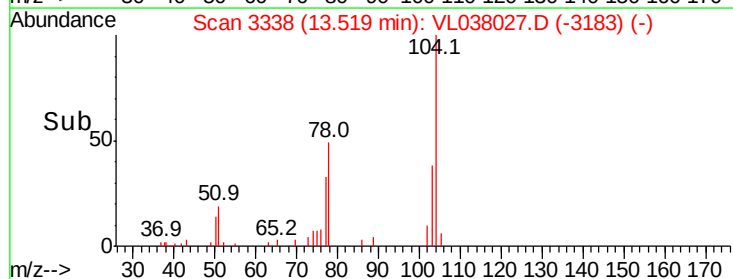
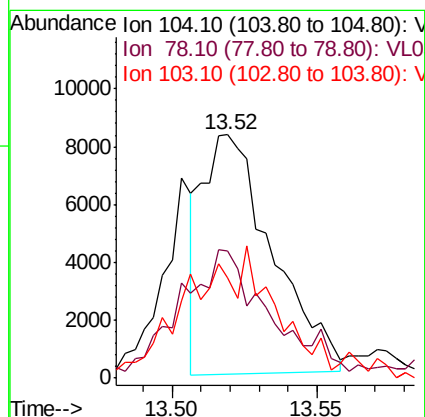
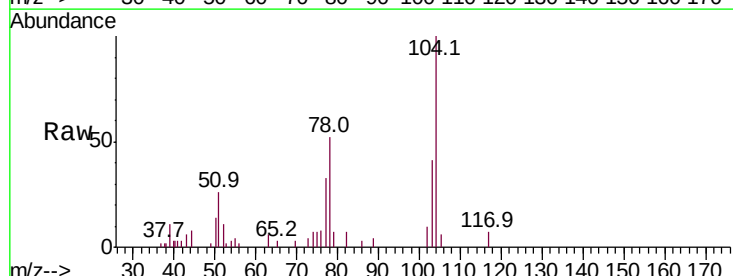
#60
o-Xylene
Concen: 0.071 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Nov 2021 4:19

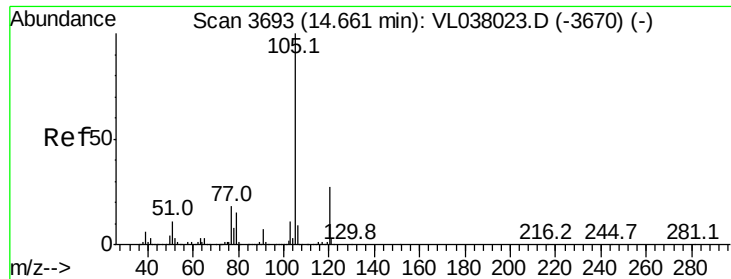
Tot Ion: 91 Resp: 20159
Ion Ratio Lower Upper
91 100
106 98.6 24.2 72.6#



#61
Styrene
Concen: 0.104 ppbv
RT: 13.52 min Scan# 3338
Delta R.T. -0.00 min
Lab File: VL038027.D
Acq: 16 Nov 2021 4:19

Tgt Ion: 104 Resp: 13894
Ion Ratio Lower Upper
104 100
78 74.3 38.7 58.1#
103 73.3 36.8 55.2#





#62

Isopropylbenzene

Concen: 0.066 ppbv

RT: 14.66 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

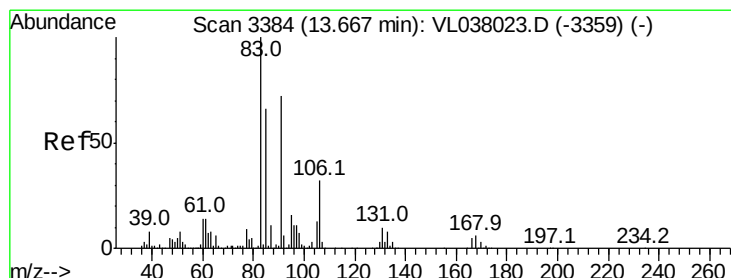
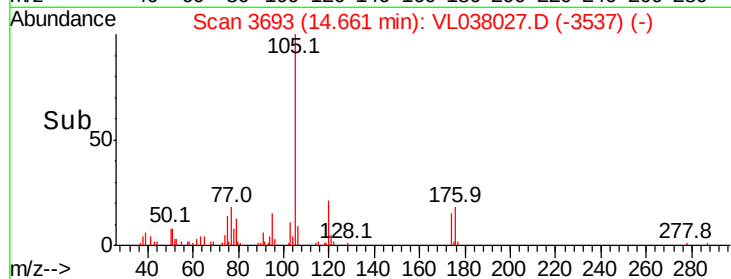
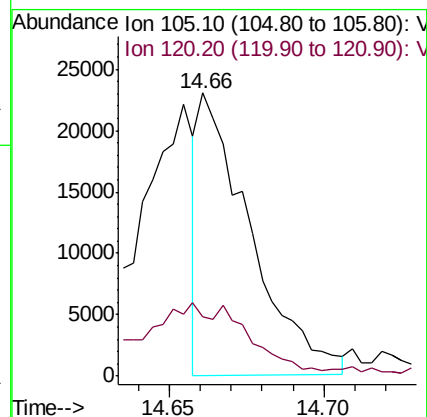
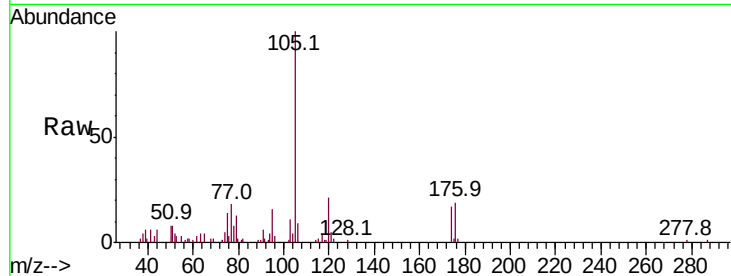
Acq: 16 Nov 2021 4:19

Tot Ion: 105 Resp: 26599

Ion Ratio Lower Upper

105 100

120 57.6 21.7 32.5#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.066 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. 0.00 min

Lab File: VL038027.D

Acq: 16 Nov 2021 4:19

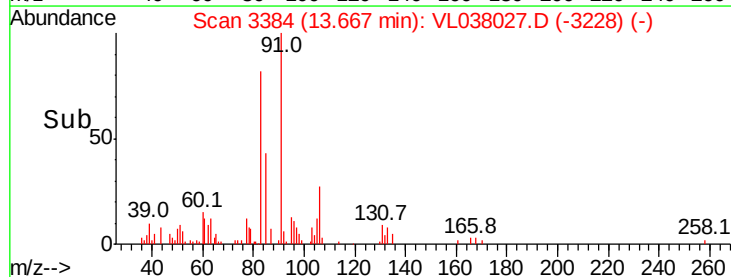
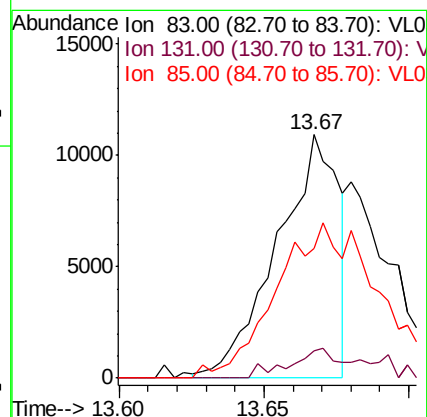
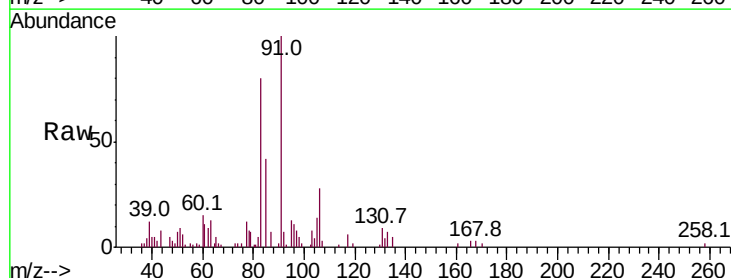
Tgt Ion: 83 Resp: 16006

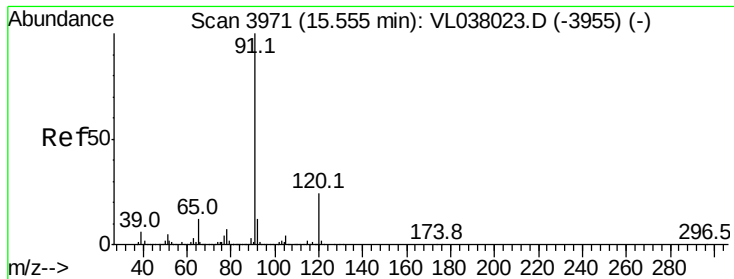
Ion Ratio Lower Upper

83 100

131 15.0 5.0 14.9#

85 116.7 33.4 100.2#





#64

n-propylbenzene

Concen: 0.084 ppbv

RT: 15.55

Delta R.T. MSVOA_L

Lab File:

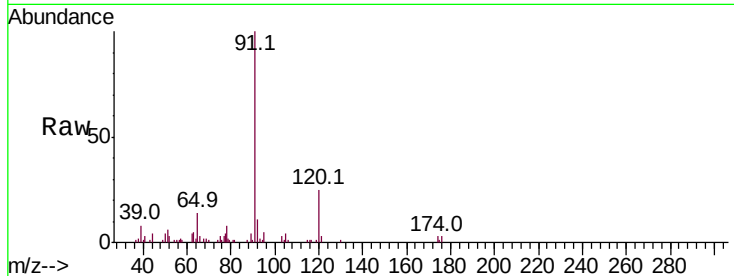
Acq: 16 Nov 2021 4:19

Tot Ion:120 Resp: 8584

Ion Ratio Lower Upper

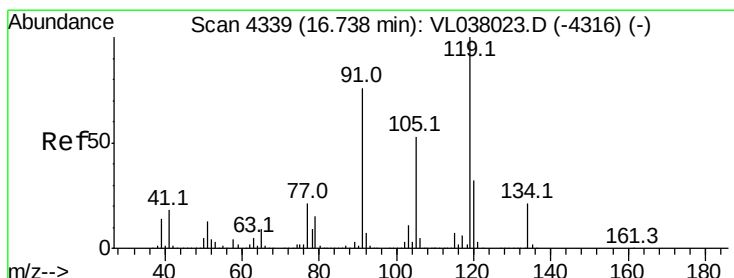
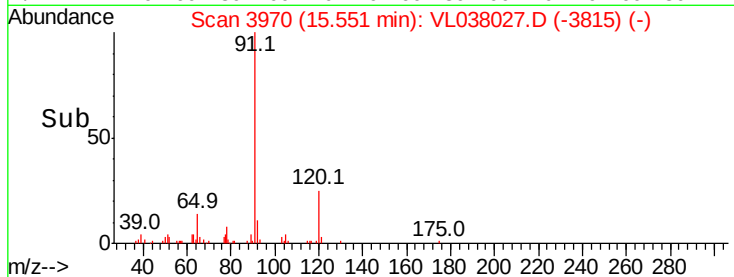
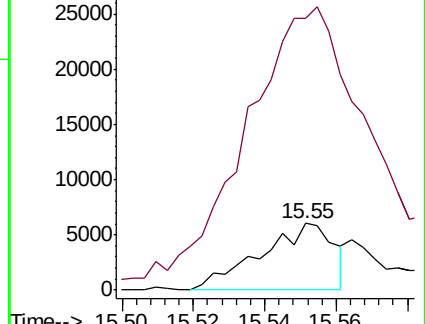
120 100

91 737.0 367.4 551.0#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.082 ppbv

RT: 16.73 min Scan# 4338

Delta R.T. -0.00 min

Lab File: VL038027.D

Acq: 16 Nov 2021 4:19

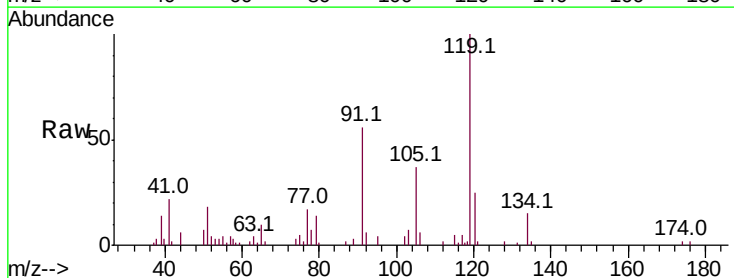
Tgt Ion:119 Resp: 29023

Ion Ratio Lower Upper

119 100

91 139.9 62.6 93.8#

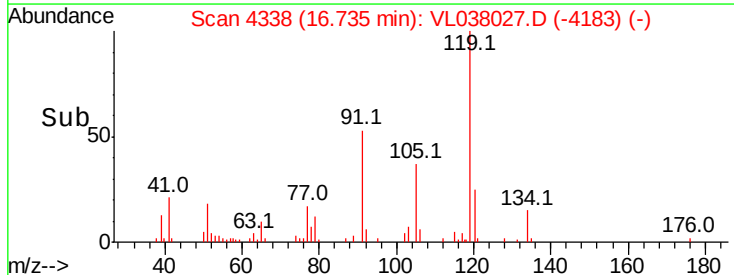
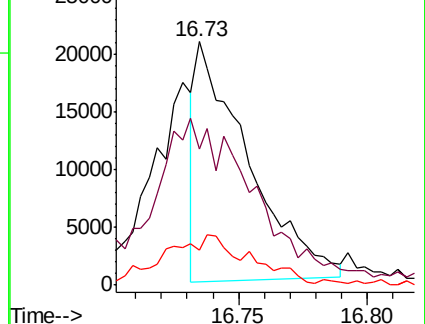
134 37.4 16.1 24.1#

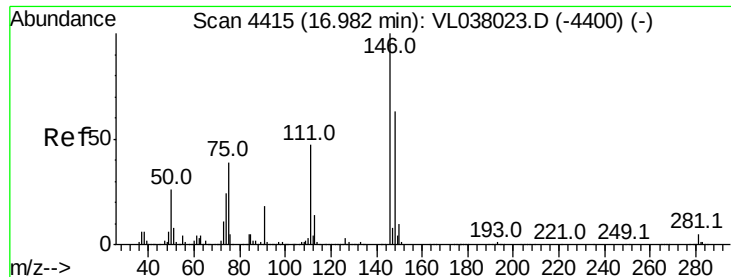


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

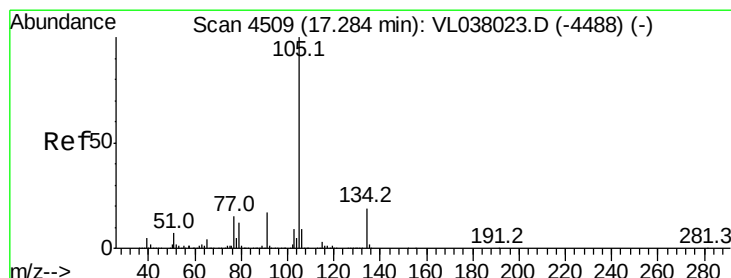
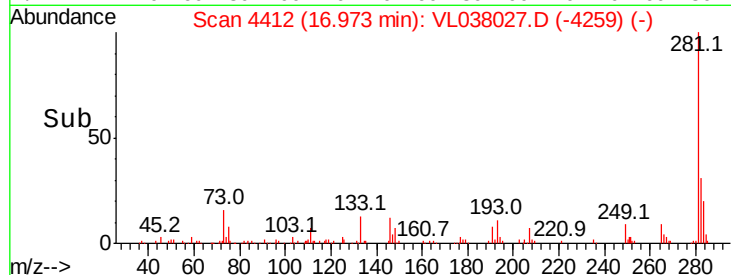
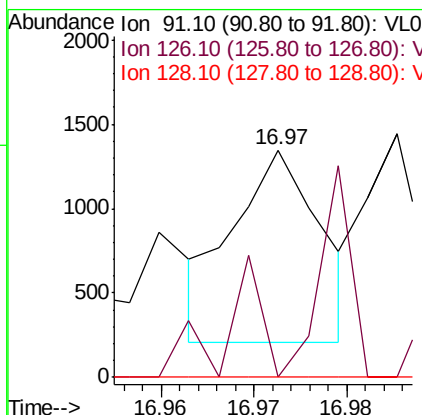
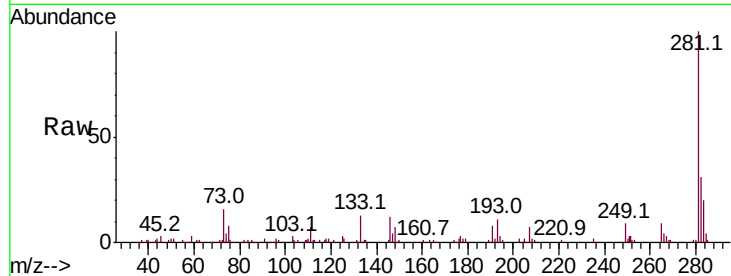
Ion 134.20 (133.90 to 134.90): V





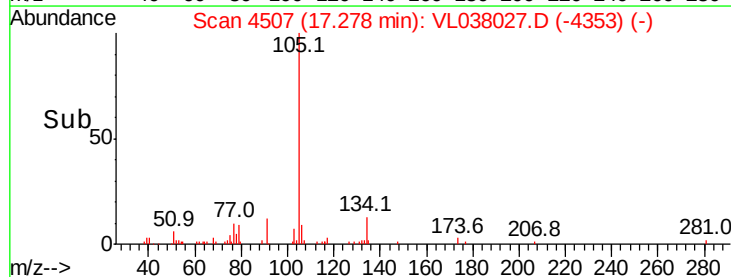
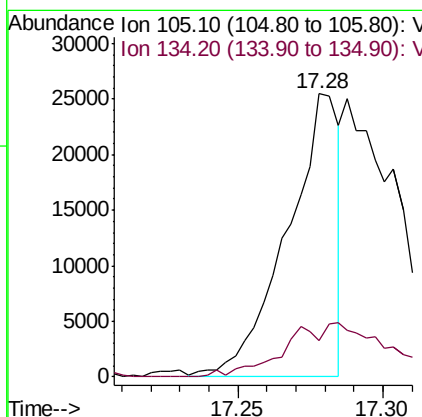
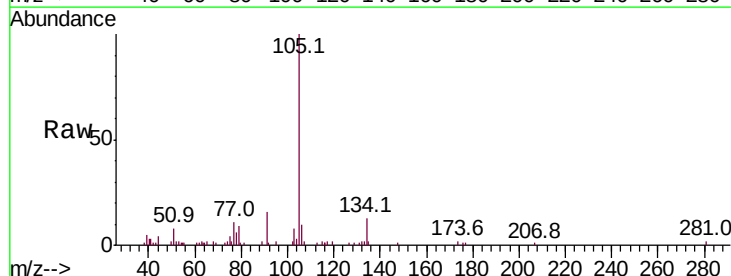
#66
Benzyl Chloride
Concen: 0.038 ppbv
RT: 16.97 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Nov 2021 4:19

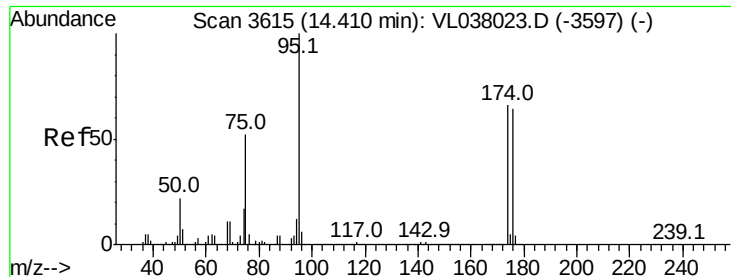
Tot Ion	Ratio	Lower	Upper
91	100		
126	166.3	16.4	24.6#
128	0.0	5.6	8.4#



#67
sec-Butylbenzene
Concen: 0.065 ppbv
RT: 17.28 min Scan# 4507
Delta R.T. -0.01 min
Lab File: VL038027.D
Acq: 16 Nov 2021 4:19

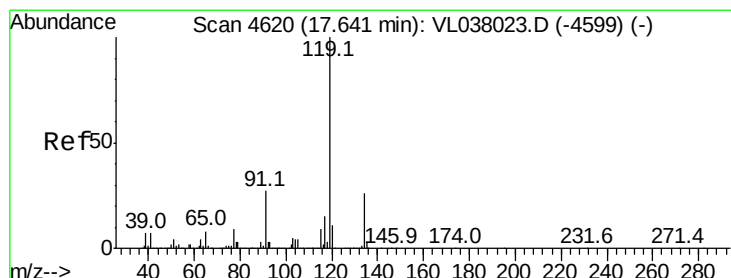
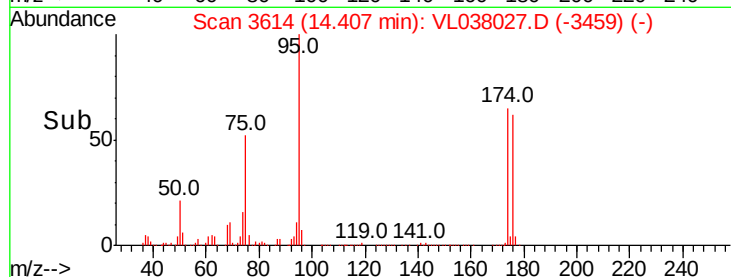
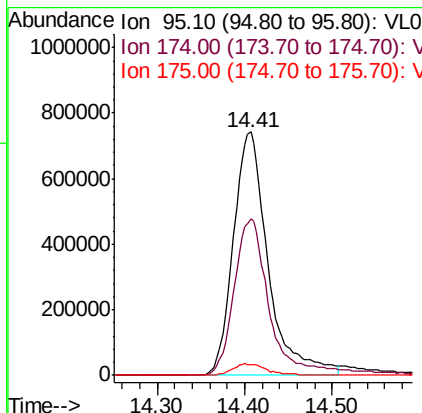
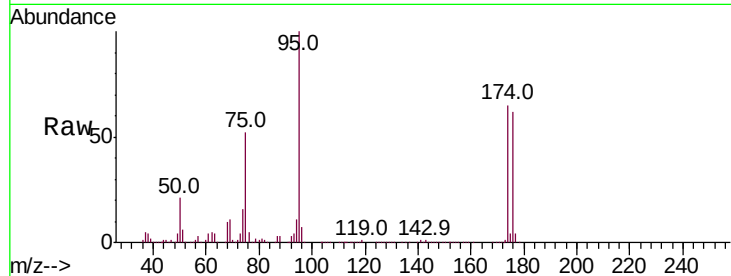
Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.0	15.3	22.9#





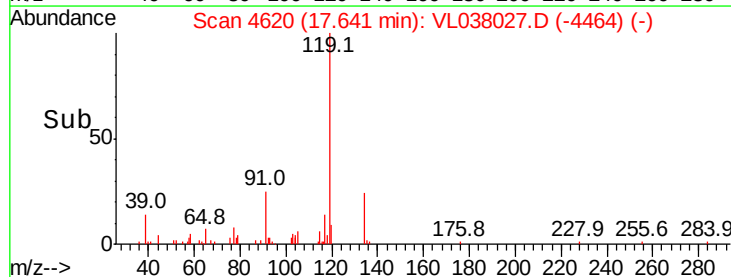
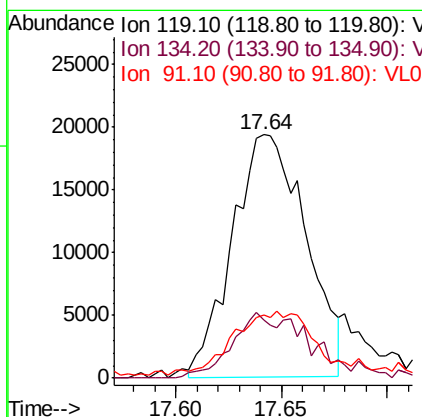
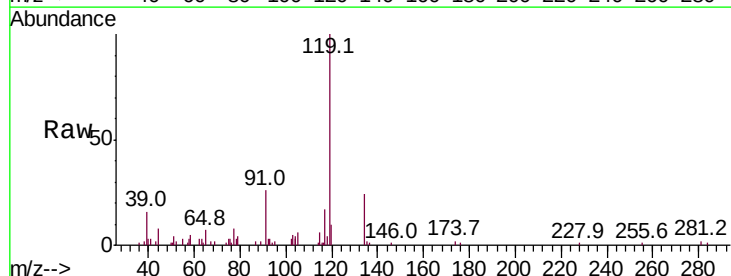
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.256 ppbv
 RT: 14.41 min
 Delta R.T.: 0.00 min
 Lab File: VL038023.D
 Acq: 16 Nov 2021 4:19

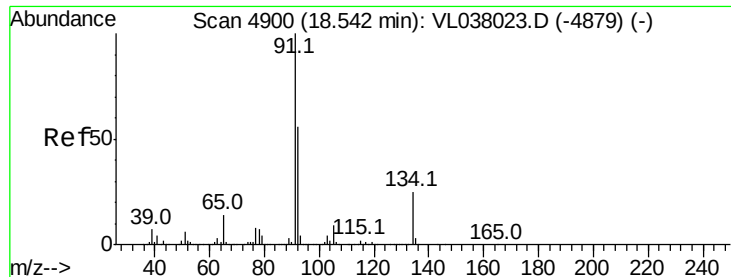
Tot Ion:	95	Resp:	2051263
Ion	Ratio	Lower	Upper
95	100		
174	67.2	54.9	82.3
175	4.9	4.0	6.0



#69
 p-Isopropyltoluene
 Concen: 0.120 ppbv
 RT: 17.64 min Scan# 4620
 Delta R.T.: 0.00 min
 Lab File: VL038027.D
 Acq: 16 Nov 2021 4:19

Tgt Ion:	119	Resp:	46894
Ion	Ratio	Lower	Upper
119	100		
134	30.6	21.2	31.8
91	38.1	22.2	33.2





#70

n-Butylbenzene

Concen: 0.065 ppbv

RT: 18.54

Delta R.T. MSVOA_L

Lab File:

Acq: 16 Nov 2021 4:19

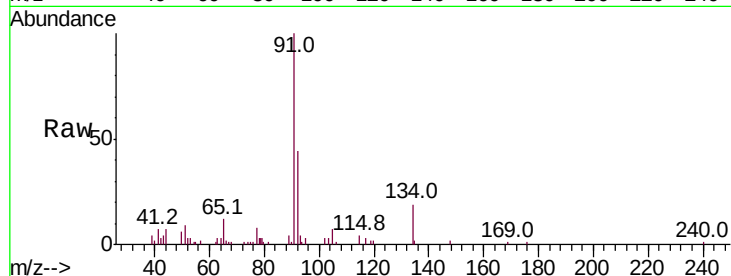
Tot Ion: 91 Resp: 23237

Ion Ratio Lower Upper

91 100

92 0.0 44.2 66.2#

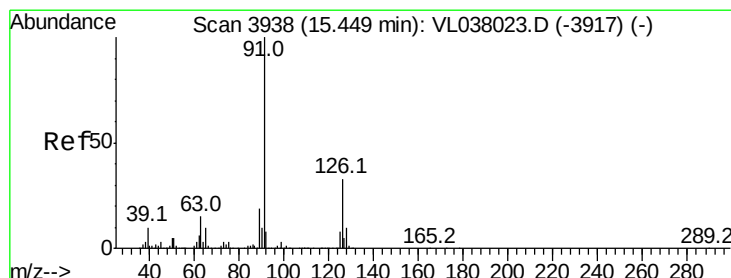
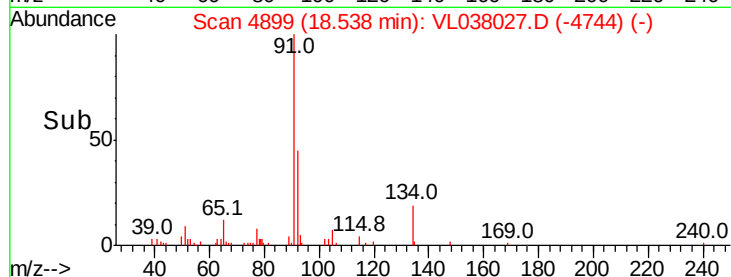
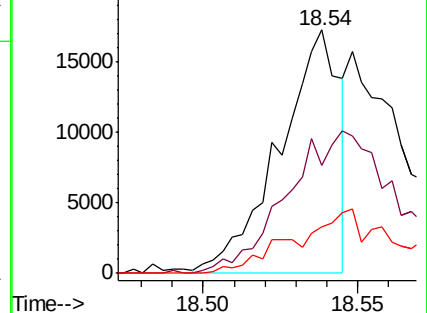
134 0.0 19.7 29.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V



#71

2-Chlorotoluene

Concen: 0.070 ppbv

RT: 15.45 min Scan# 3937

Delta R.T. -0.00 min

Lab File: VL038027.D

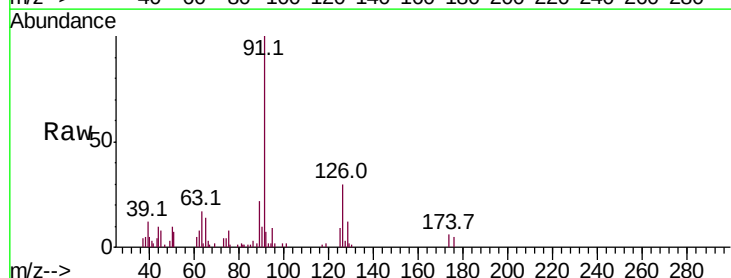
Acq: 16 Nov 2021 4:19

Tgt Ion: 91 Resp: 19826

Ion Ratio Lower Upper

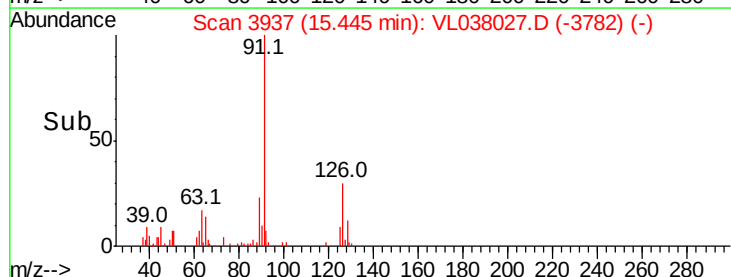
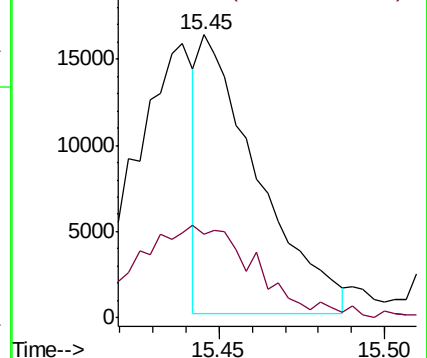
91 100

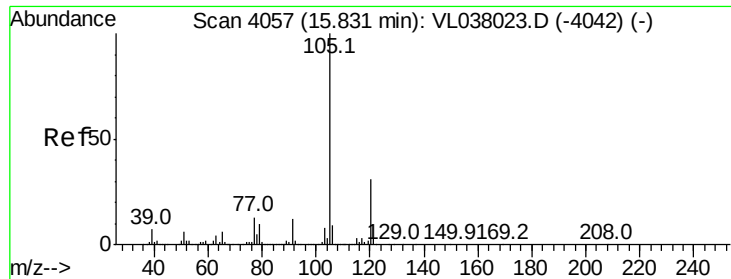
126 0.0 13.5 54.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.123 ppbv

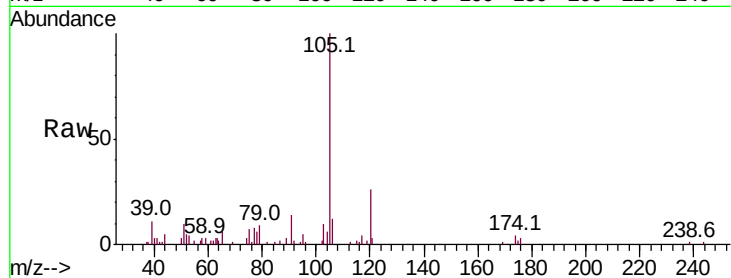
RT: 15.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Nov 2021 4:19

Tot Ion:	105	Resp:	40119
Ion	Ratio	Lower	Upper
105	100		
120	39.0	24.6	36.8#
91	14.5	9.3	13.9#
77	19.2	10.3	15.5#

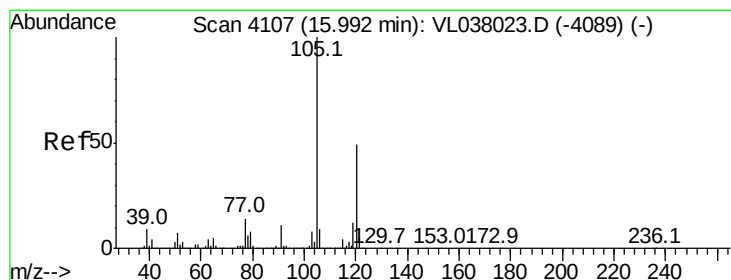
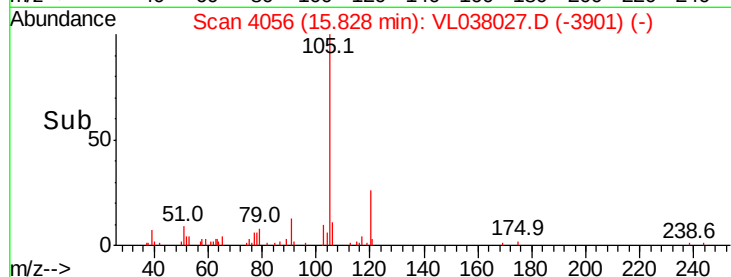
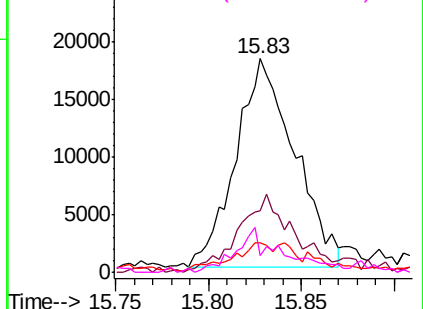


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.114 ppbv

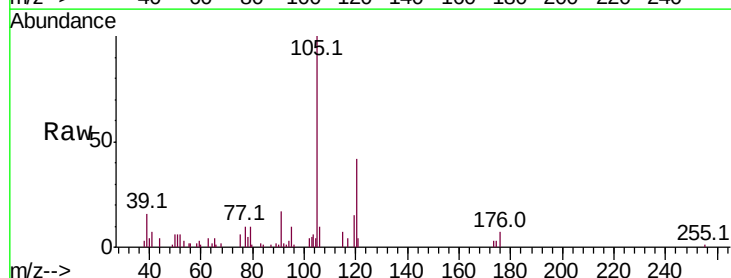
RT: 15.99 min Scan# 4106

Delta R.T. -0.00 min

Lab File: VL038027.D

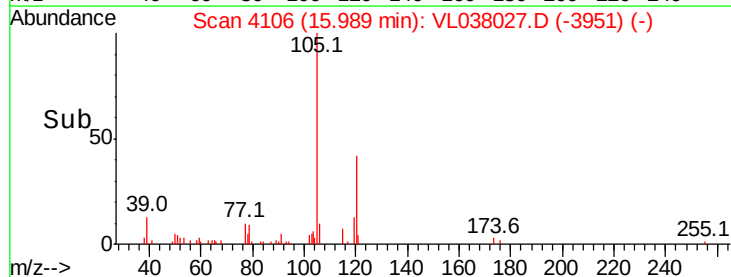
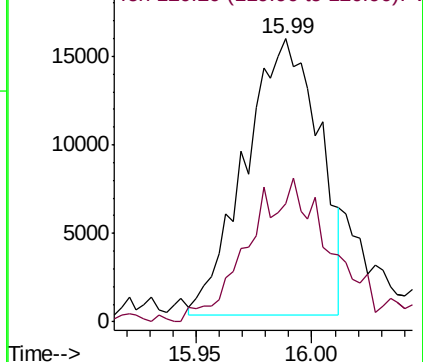
Acq: 16 Nov 2021 4:19

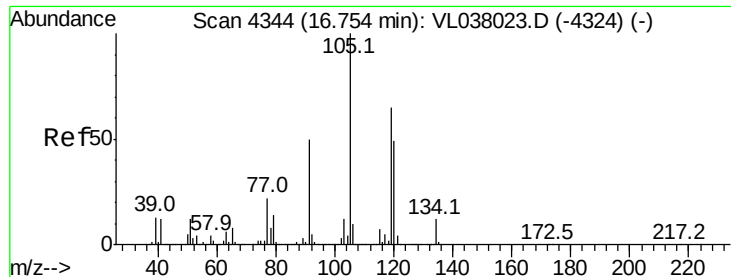
Tgt Ion:	105	Resp:	34737
Ion	Ratio	Lower	Upper
105	100		
120	38.9	38.8	58.2



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: 0.068 ppbv

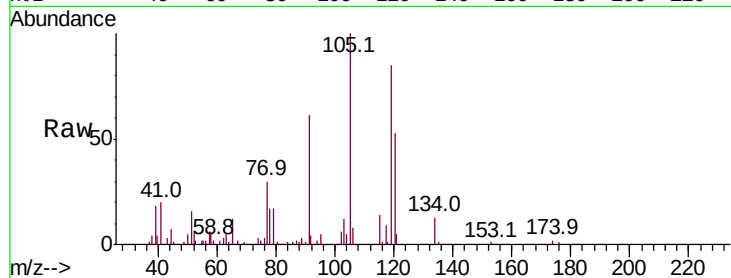
RT: 16.75

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Nov 2021 4:19

Tot Ion:	105	Resp:	21535
Ion Ratio	Lower	Upper	
105	100		
120	49.0	39.5	59.3
91	42.0	40.9	61.3
77	20.4	17.2	25.8



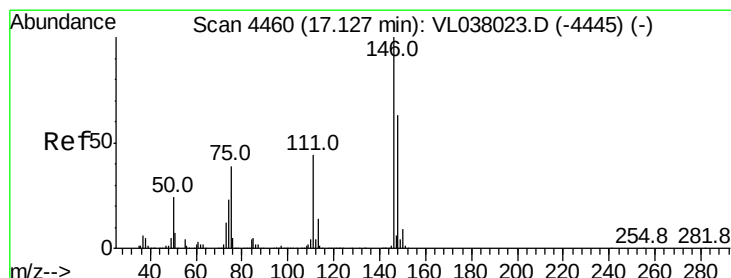
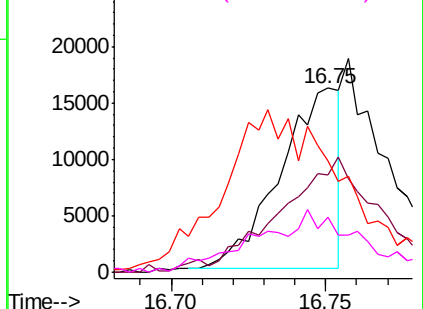
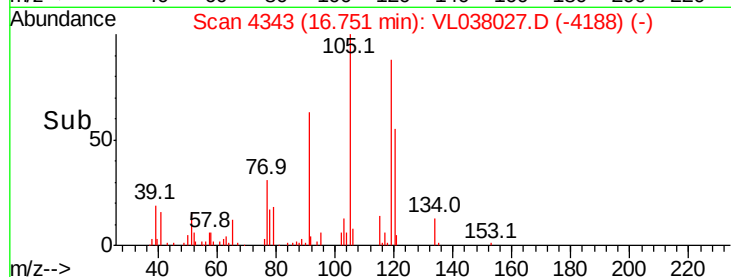
Abundance

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



#76

1,4-Dichlorobenzene

Concen: 0.047 ppbv

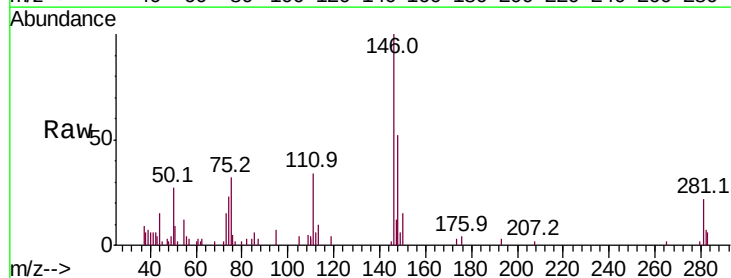
RT: 17.12 min Scan# 4459

Delta R.T. -0.00 min

Lab File: VL038027.D

Acq: 16 Nov 2021 4:19

Tgt Ion:	146	Resp:	8916
Ion Ratio	Lower	Upper	
146	100		
111	0.0	22.5	67.5#
148	0.0	32.6	98.0#

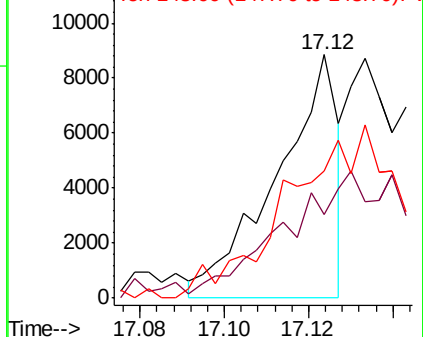
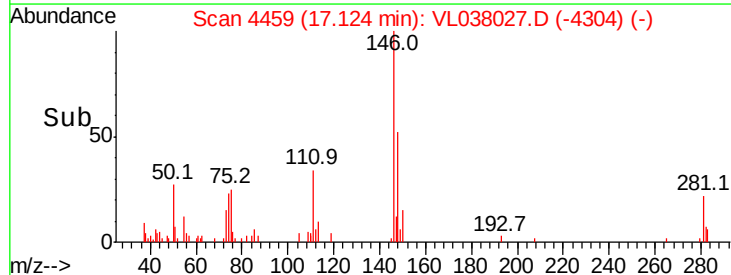


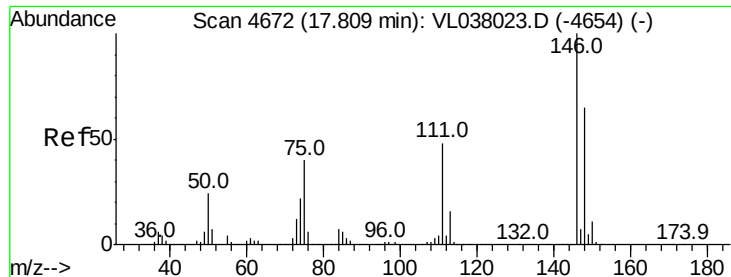
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

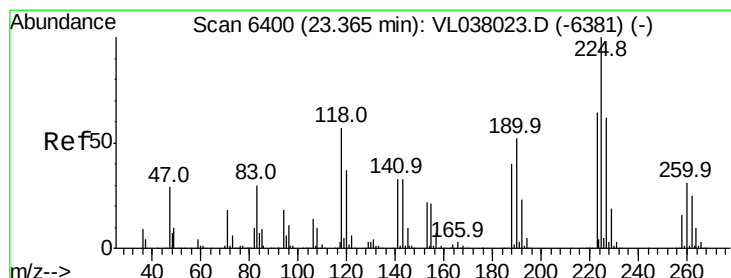
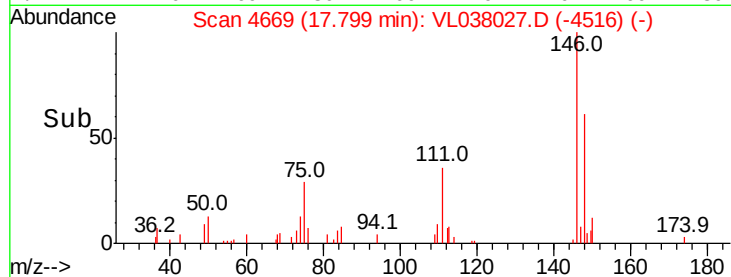
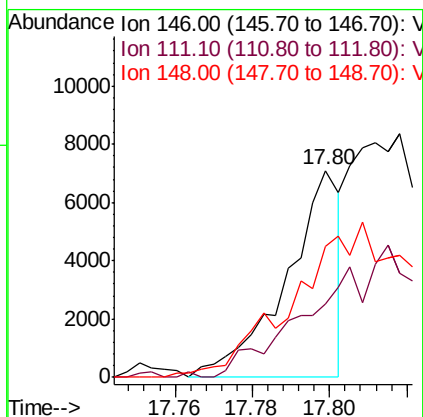
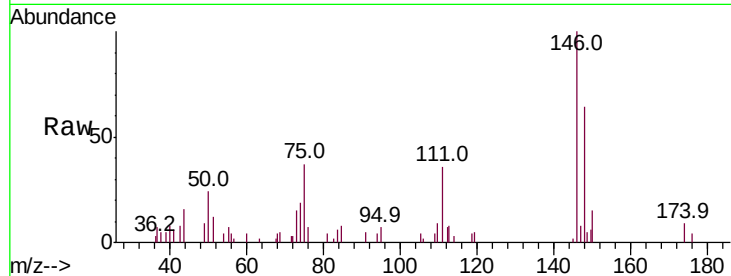
Ion 148.00 (147.70 to 148.70): V





#77
 1,2-Dichlorobenzene
 Concen: 0.037 ppbv
 RT: 17.80 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 16 Nov 2021 4:19

Tot Ion:146 Resp: 6880
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.2 72.6#
 148 0.0 32.5 97.5#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.055 ppbv
 RT: 23.36 min Scan# 6399
 Delta R.T.: -0.00 min
 Lab File: VL038027.D
 Acq: 16 Nov 2021 4:19

Tgt Ion:225 Resp: 8313
 Ion Ratio Lower Upper
 225 100
 223 0.0 51.0 76.4#
 227 129.4 51.4 77.2#

