

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111621\
 Data File : VL038036.D
 Acq On : 16 Nov 2021 12:30
 Operator : SY/AP
 Sample : M4526-01DL 2.5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 17 06:40:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 16 09:59:16 2021
 QLast Update : Tue Nov 16 09:59:16 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	848113	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2688252	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2365225	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1770537	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

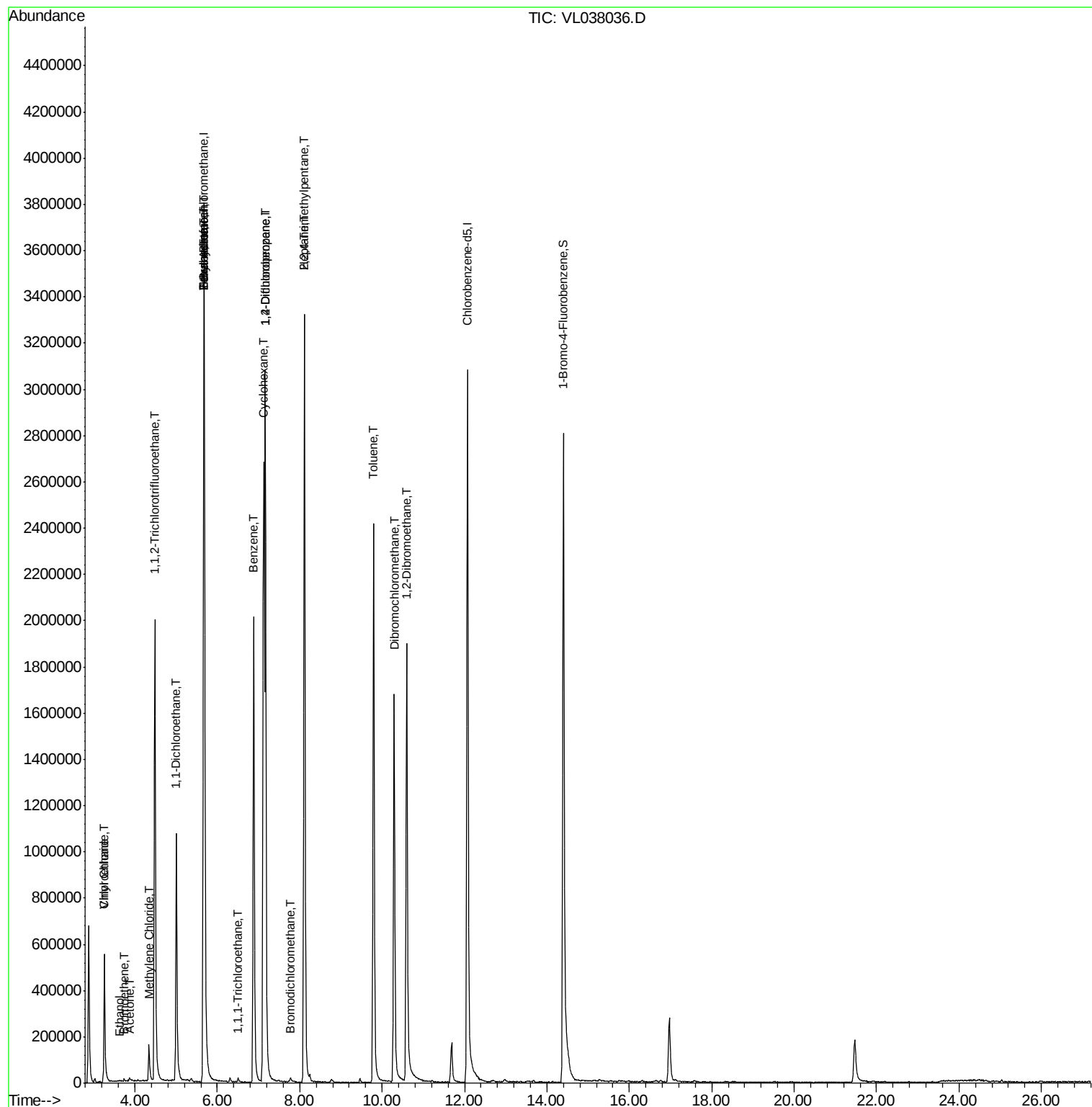
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.26	62	625585	8.307	ppbv	97
7) Chloroethane	3.26	64	196373	7.414	ppbv #	46
10) Heptane	8.11	43	1789216	8.742	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	851533	6.444	ppbv	97
13) Ethanol	3.62	45	761	0.103	ppbv #	100
14) Bromoethene	3.74	108	3792	0.069	ppbv #	64
15) Acetone	3.87	43	8603	0.086	ppbv #	46
20) Methylene Chloride	4.34	84	59980	1.025	ppbv	91
24) 1,1-Dichloroethane	5.01	63	1107517	8.598	ppbv	98
25) Ethyl Acetate	5.68	43	1124236	4.793	ppbv #	76
26) Hexane	5.68	57	1668423	14.158	ppbv #	44
30) Cyclohexane	7.12	84	1105715	8.332	ppbv	99
32) 1,1,1-Trichloroethane	6.50	97	7583	0.034	ppbv #	69
34) 2-Butanone	5.68	43	1087302	12.263	ppbv #	53
36) Benzene	6.88	78	1991807	7.789	ppbv	99
39) 1,2-Dichloropropane	7.17	63	615120	6.223	ppbv #	32
41) Tetrahydrofuran	5.68	42	574515	9.030	ppbv #	51
42) Bromodichloromethane	7.78	83	6818	0.036	ppbv #	96
44) 2,2,4-Trimethylpentane	8.11	57	893443	2.034	ppbv #	44
48) Dibromochloromethane	10.29	129	1211990	7.424	ppbv	98
53) Toluene	9.79	91	2237690	7.483	ppbv	99
54) 1,2-Dibromoethane	10.60	107	1907074	13.557	ppbv	98

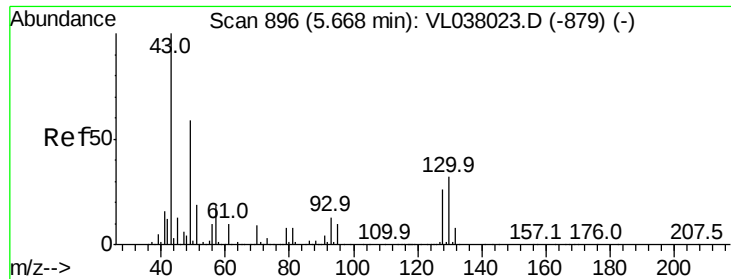
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL038036.D
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
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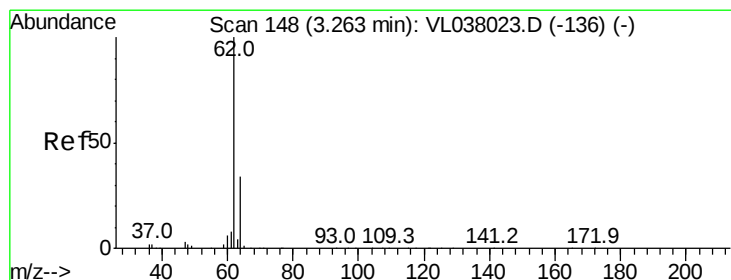
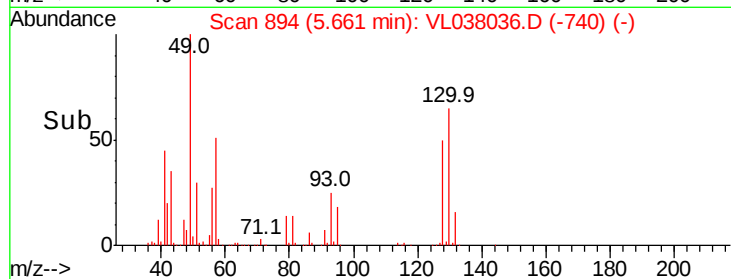
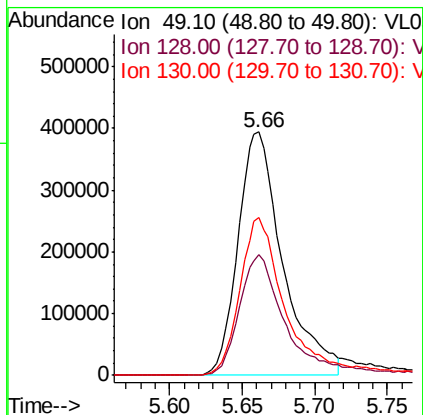
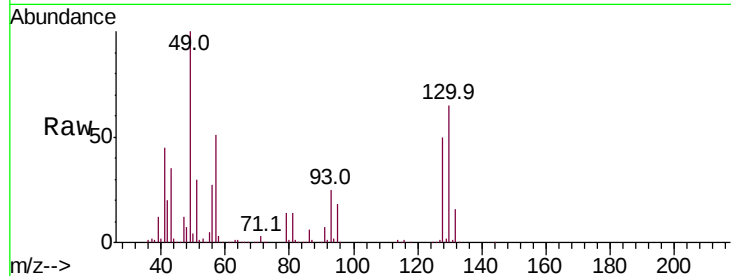
Quant Time: Nov 17 06:40:31 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 16 09:59:16 2021
QLast Update : Tue Nov 16 09:59:16 2021
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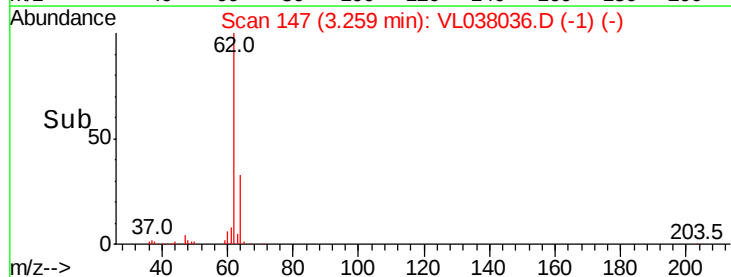
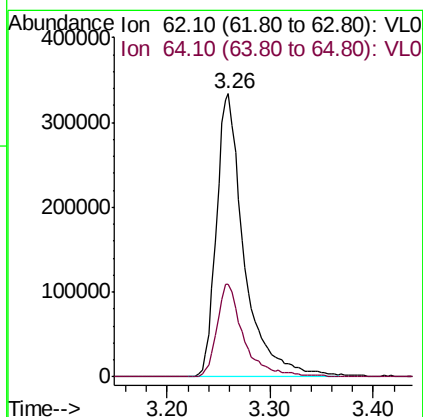
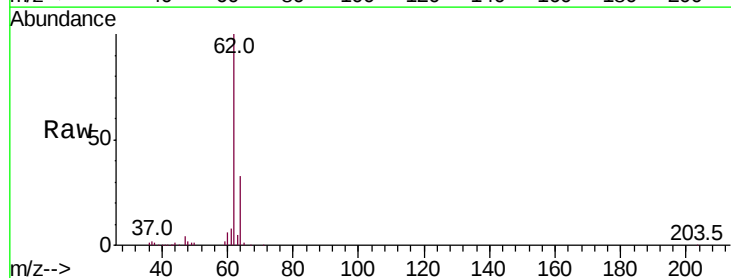
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 16 Nov 2021 12:30

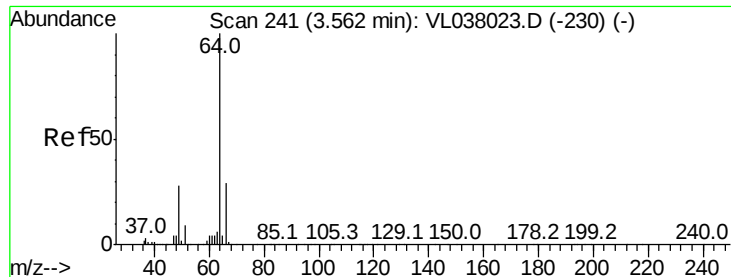
Tot Ion: 49 Resp: 848113
 Ion Ratio Lower Upper
 49 100
 128 52.9 23.4 70.2
 130 67.4 29.1 87.3



#5
 Vinyl Chloride
 Concen: 8.307 ppbv
 RT: 3.26 min Scan# 147
 Delta R.T. -0.00 min
 Lab File: VL038036.D
 Acq: 16 Nov 2021 12:30

Tgt Ion: 62 Resp: 625585
 Ion Ratio Lower Upper
 62 100
 64 32.6 27.4 41.0





#7

Chloroethane

Concen: 7.414 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

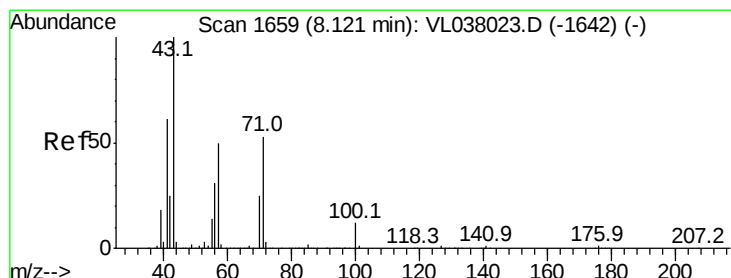
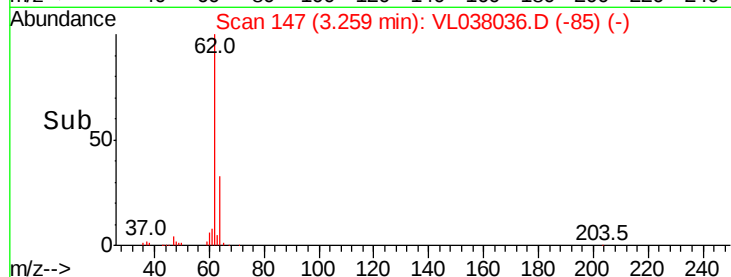
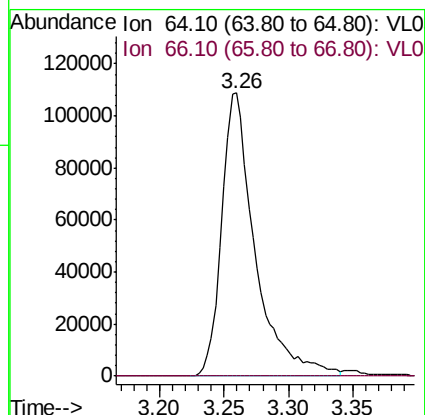
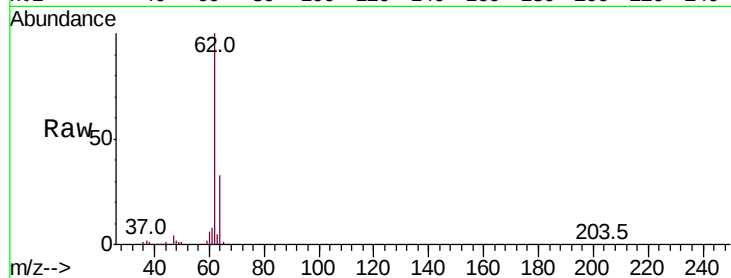
Acq: 16 Nov 2021 12:30

Tot Ion: 64 Resp: 196373

Ion Ratio Lower Upper

64 100

66 0.0 23.1 34.7#



#10

Heptane

Concen: 8.742 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. -0.01 min

Lab File: VL038036.D

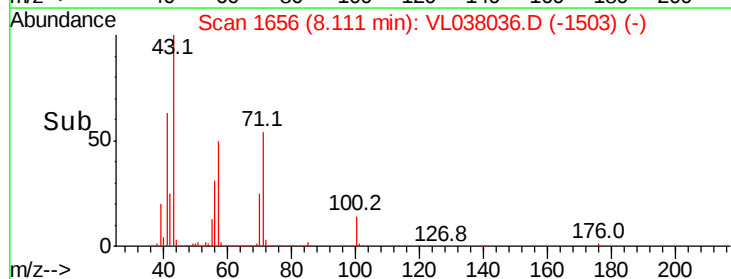
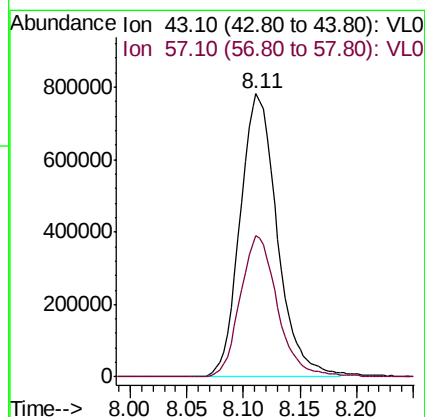
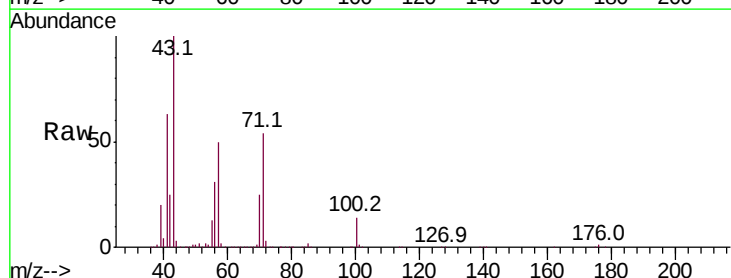
Acq: 16 Nov 2021 12:30

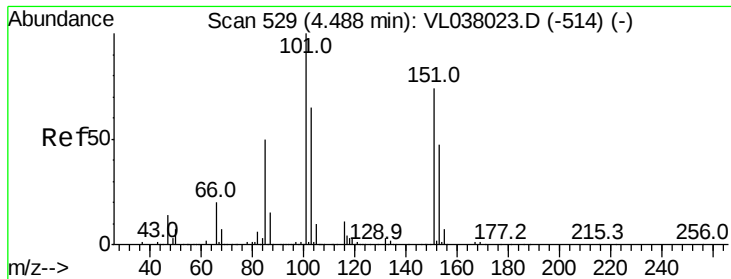
Tgt Ion: 43 Resp: 1789216

Ion Ratio Lower Upper

43 100

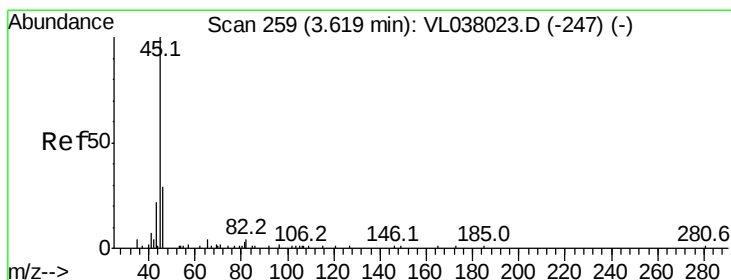
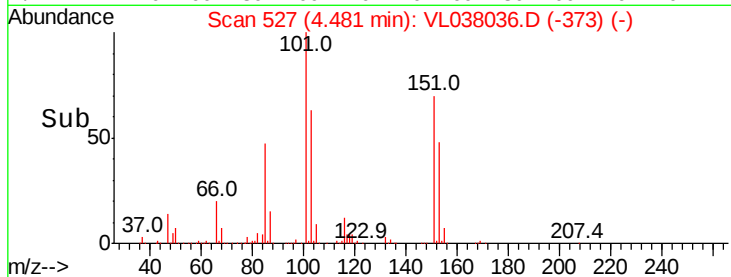
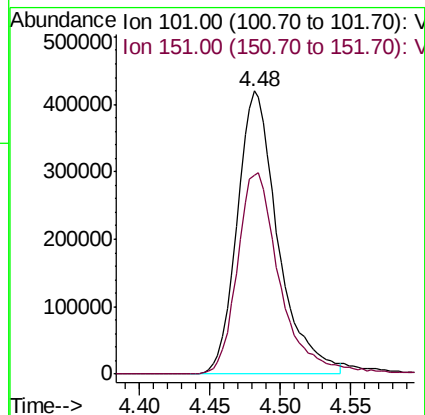
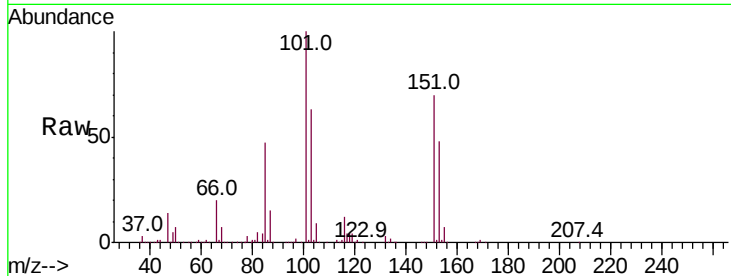
57 50.4 40.2 60.2





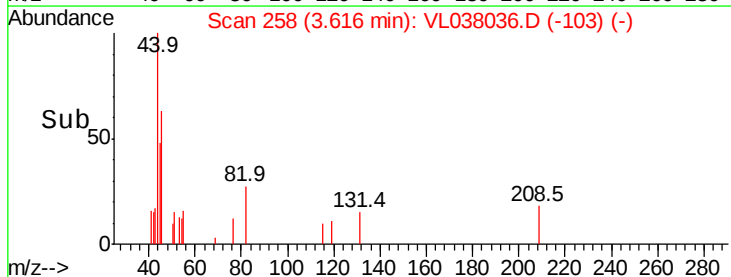
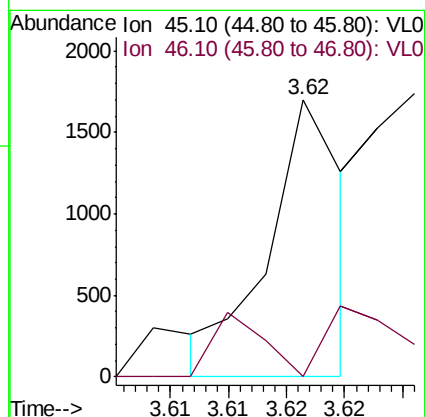
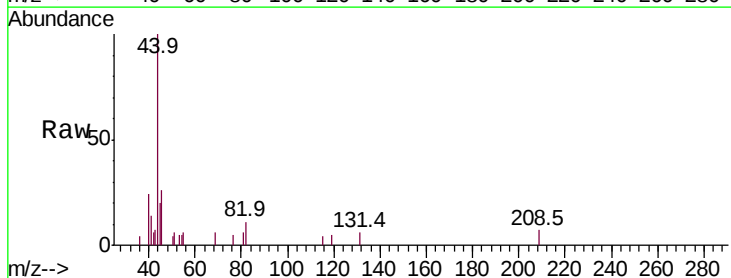
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 6.444 ppbv
 RT: 4.48
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 16 Nov 2021 12:30

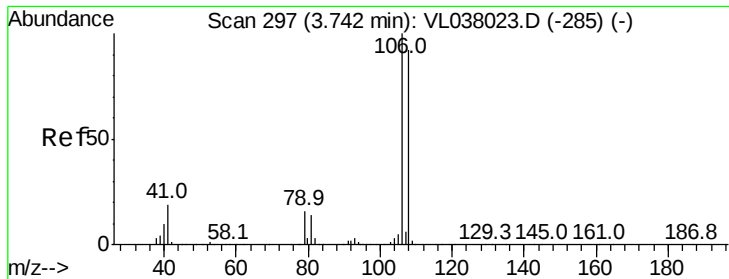
Tot Ion:101 Resp: 851533
 Ion Ratio Lower Upper
 101 100
 151 74.9 57.8 86.8



#13
 Ethanol
 Concen: 0.103 ppbv
 RT: 3.62 min Scan# 258
 Delta R.T. -0.00 min
 Lab File: VL038036.D
 Acq: 16 Nov 2021 12:30

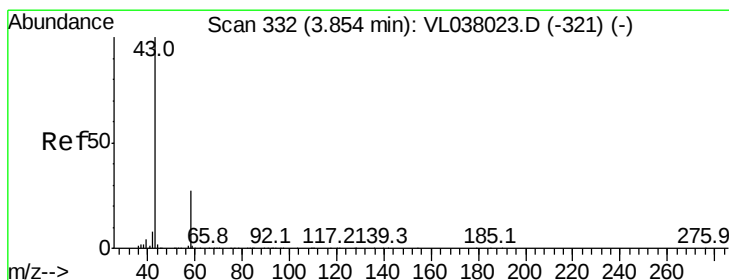
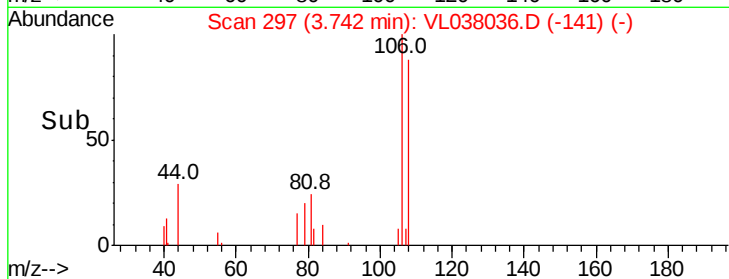
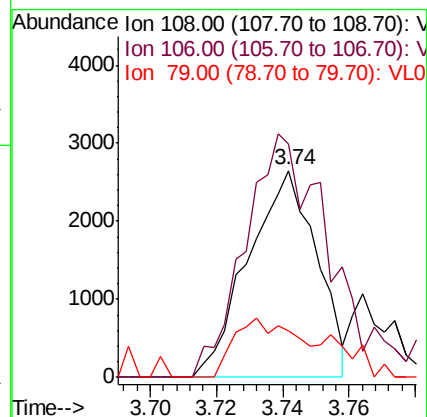
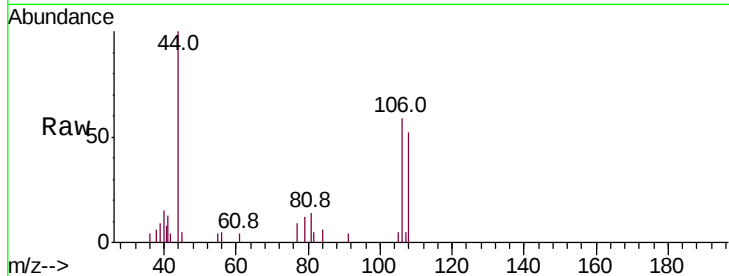
Tgt Ion: 45 Resp: 761
 Ion Ratio Lower Upper
 45 100
 46 0.0 0.0 0.0





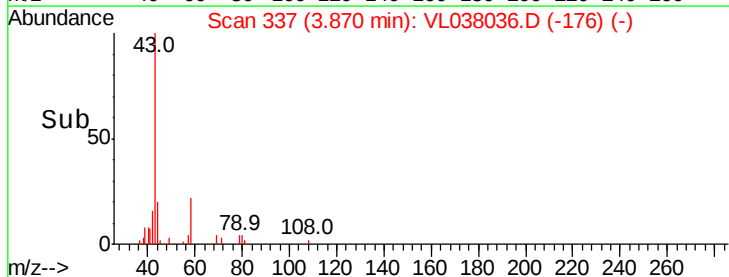
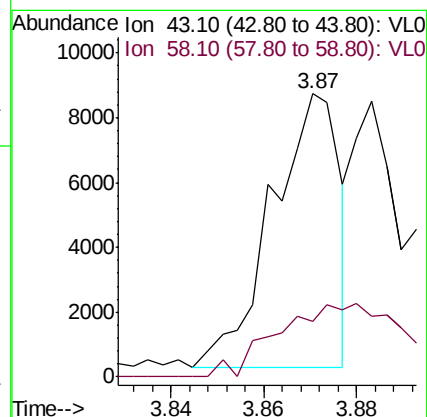
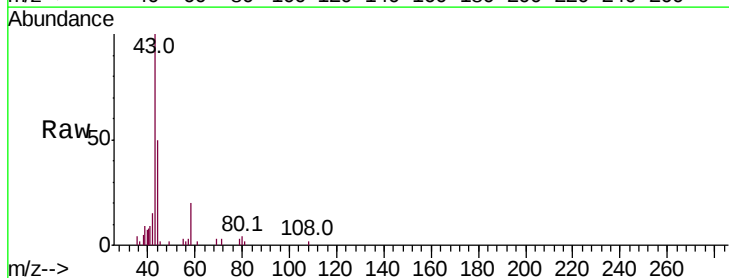
#14
Bromoethene
Concen: 0.069 ppbv
RT: 3.74 Instrument :
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Nov 2021 12:30

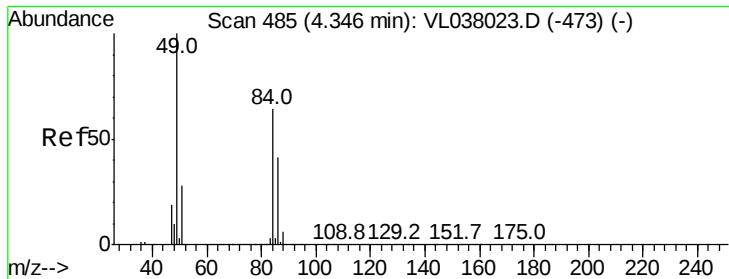
Tot Ion	Ratio	Lower	Upper
108	100		
106	151.2	90.4	135.6#
79	36.5	14.5	21.7#



#15
Acetone
Concen: 0.086 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL038036.D
Acq: 16 Nov 2021 12:30

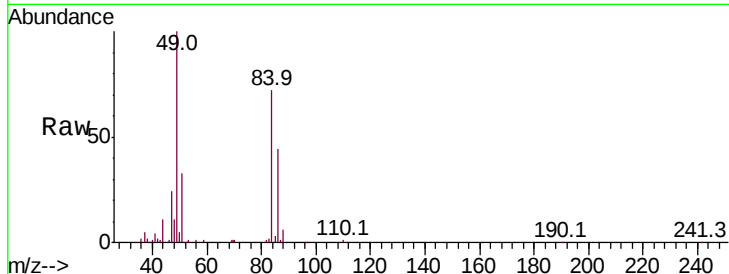
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.0	34.4#





#20
Methylene Chloride
Concen: 1.025 ppbv
RT: 4.34 Instrument: MSVOA_1
Delta R.T. ClientSampleId:
Lab File:
Acq: 16 Nov 2021 12:30

Tot Ion:	84	Resp:	59980
Ion	Ratio	Lower	Upper
84	100		
49	139.7	125.1	187.7
51	46.5	35.3	52.9
86	61.2	51.7	77.5



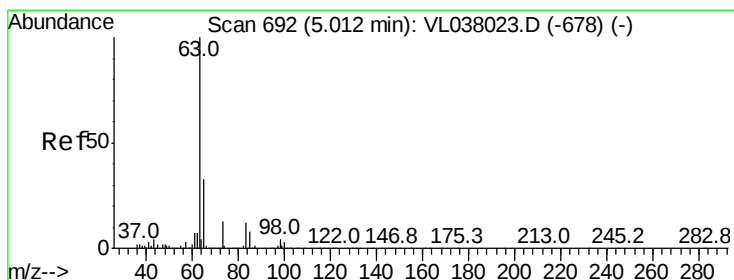
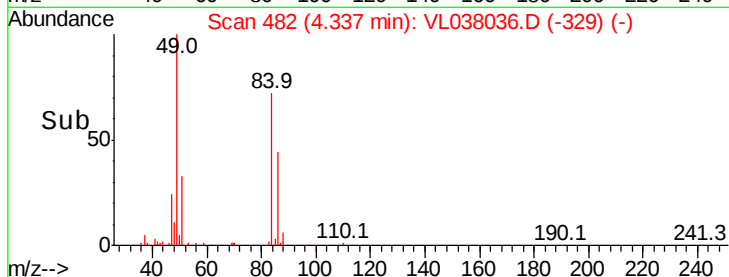
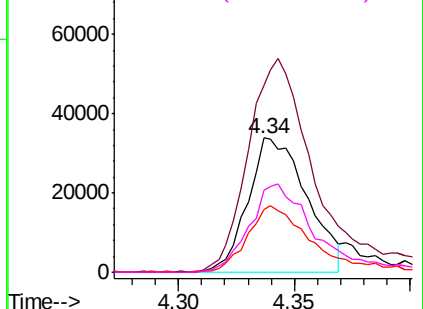
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

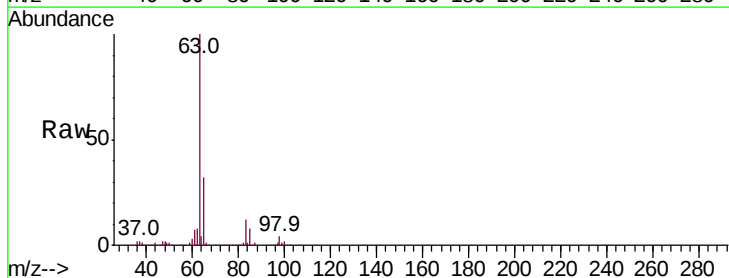
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#24
1,1-Dichloroethane
Concen: 8.598 ppbv
RT: 5.01 min Scan# 690
Delta R.T. -0.01 min
Lab File: VL038036.D
Acq: 16 Nov 2021 12:30

Tgt Ion:	63	Resp:	1107517
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.3	6.9
100	2.3	1.5	4.4

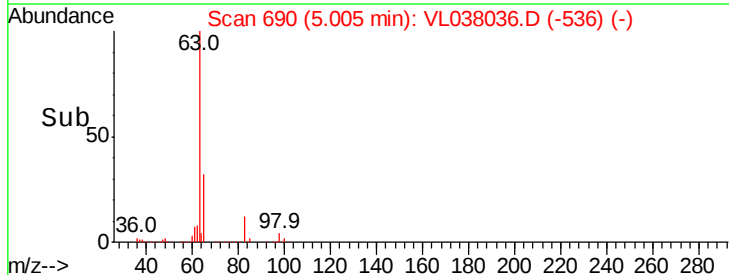
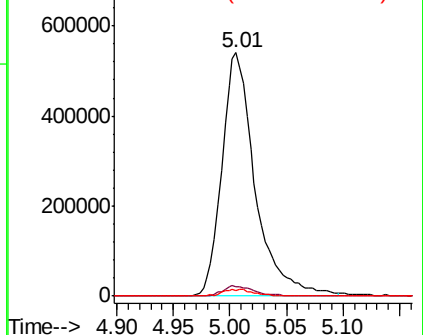


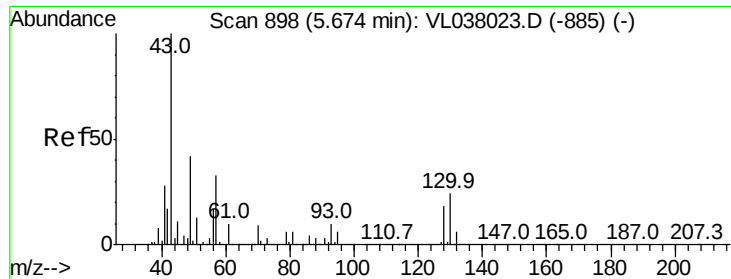
Abundance

Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

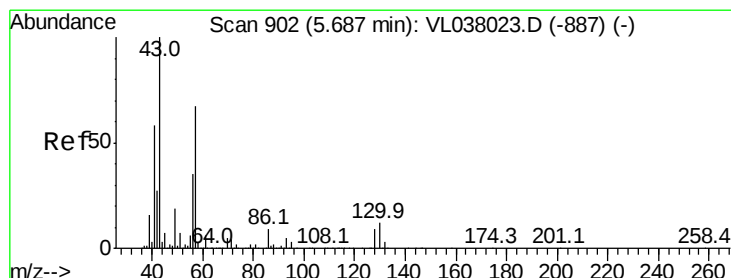
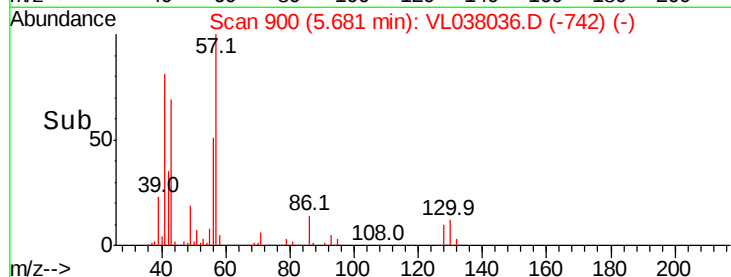
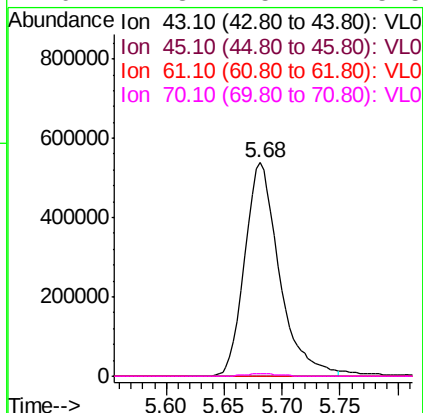
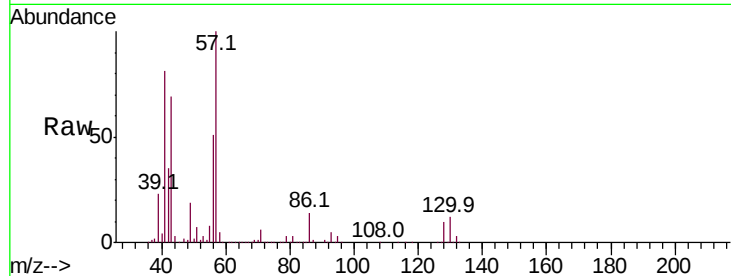
Ion 100.00 (99.70 to 100.70): VL0





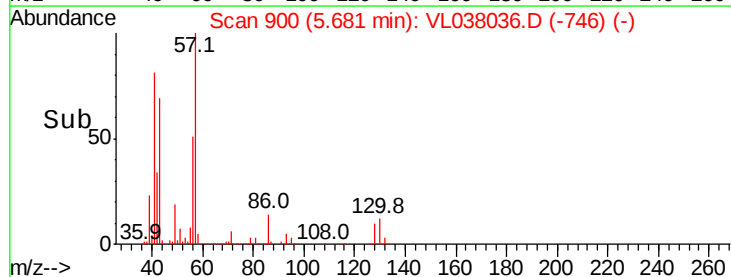
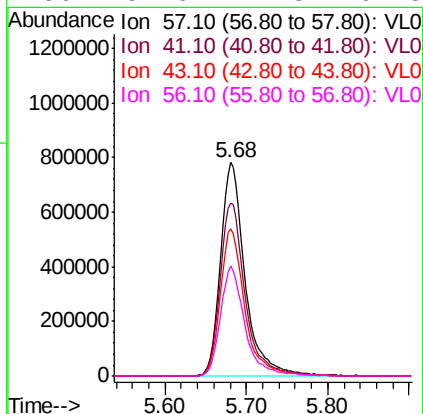
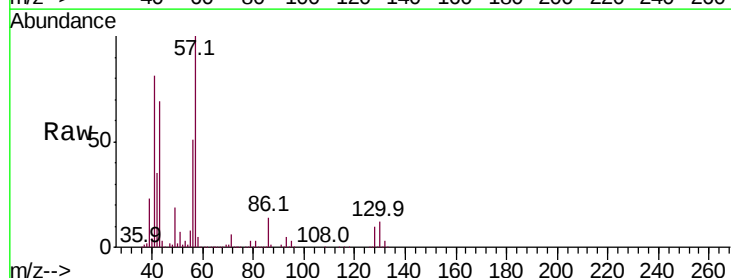
#25
Ethyl Acetate
Concen: 4.793 ppbv
RT: 5.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Nov 2021 12:30

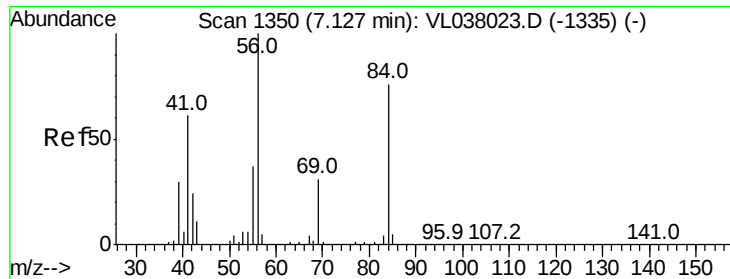
Tot Ion:	43	Resp:	1124236
Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.0	12.0#
61	0.1	8.3	12.5#
70	1.3	5.7	8.5#



#26
Hexane
Concen: 14.158 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL038036.D
Acq: 16 Nov 2021 12:30

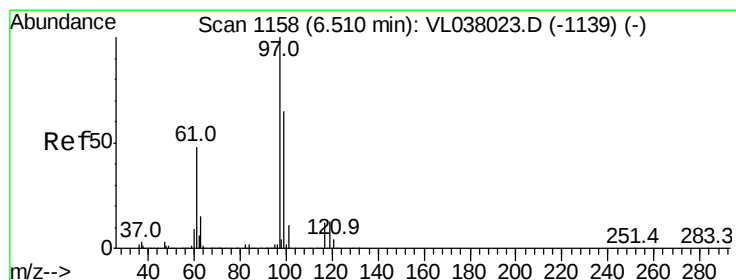
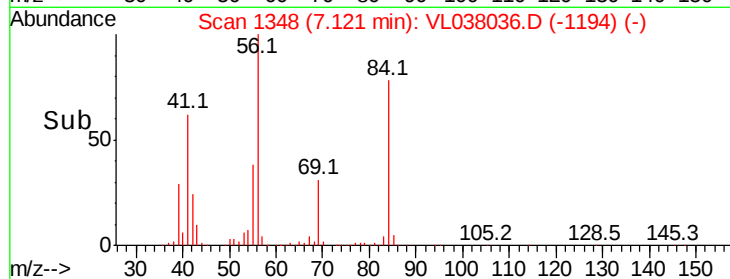
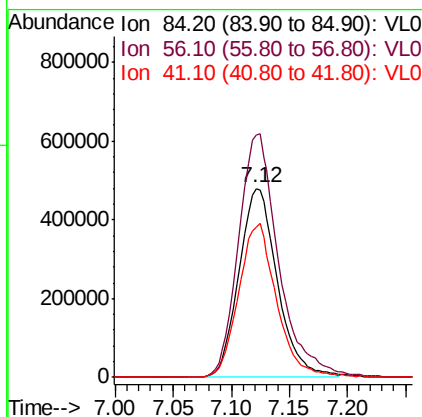
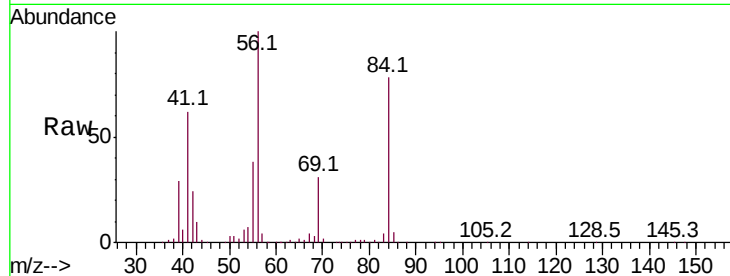
Tgt Ion:	57	Resp:	1668423
Ion	Ratio	Lower	Upper
57	100		
41	83.2	70.8	106.2
43	69.0	169.4	254.0#
56	51.6	41.8	62.8





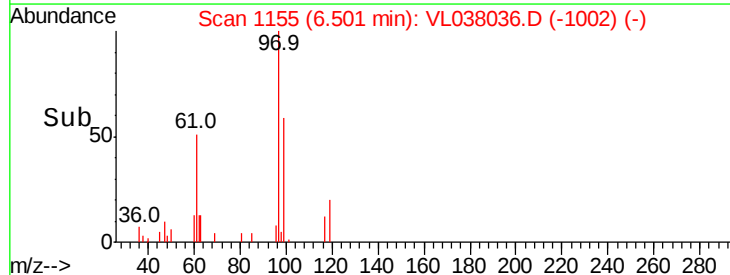
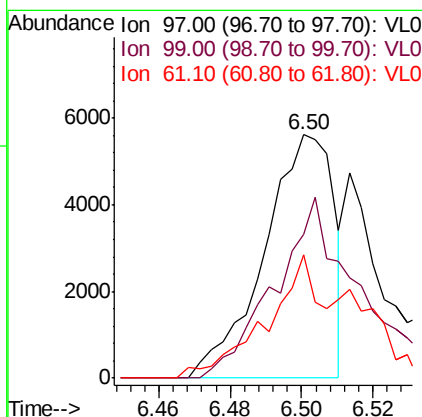
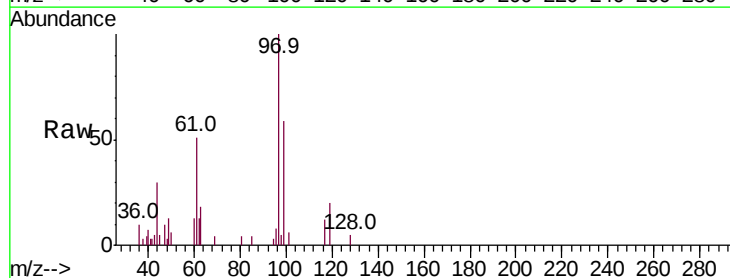
#30
Cvclohexane
Concen: 8.332 ppbv
RT: 7.12
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Nov 2021 12:30

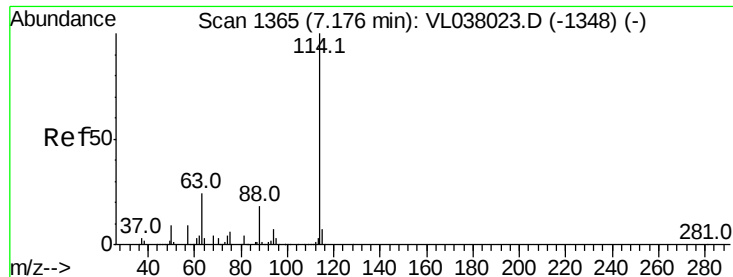
Tot Ion: 84 Resp: 1105715
Ion Ratio Lower Upper
84 100
56 135.6 109.5 164.3
41 80.7 65.1 97.7



#32
1,1,1-Trichloroethane
Concen: 0.034 ppbv
RT: 6.50 min Scan# 1155
Delta R.T. -0.01 min
Lab File: VL038036.D
Acq: 16 Nov 2021 12:30

Tgt Ion: 97 Resp: 7583
Ion Ratio Lower Upper
97 100
99 93.5 51.9 77.9#
61 63.2 37.7 56.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17

Instrument: MSVOA_1

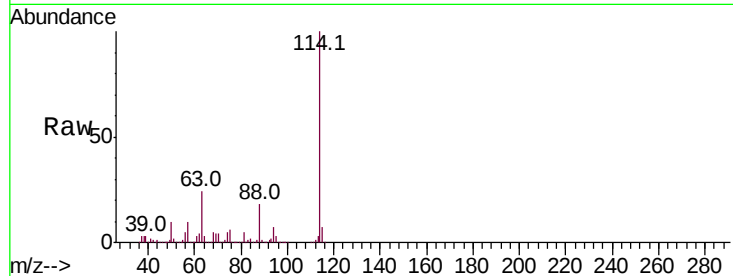
Delta R.T.

Lab File: ClientSampleId:

Acq: 16 Nov 2021 12:30

Tot Ion:114 Resp: 2688252

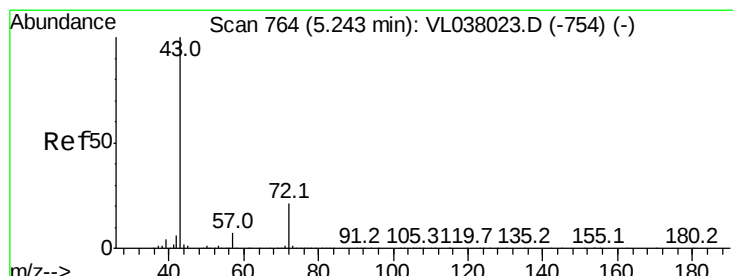
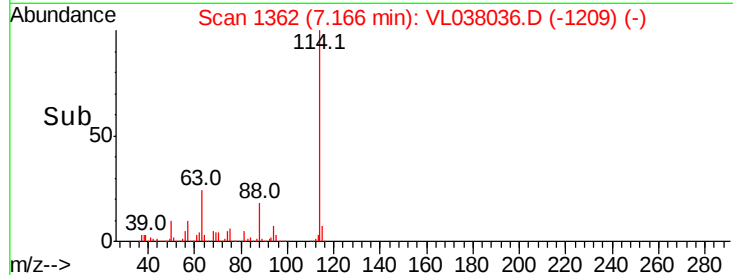
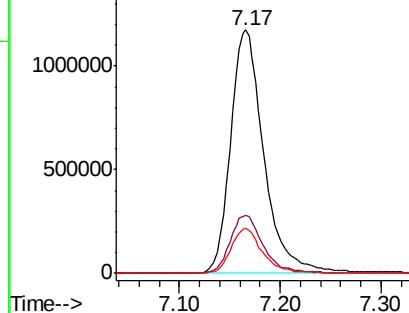
Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.8	29.6
88	18.0	14.6	21.8



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 12.263 ppbv

RT: 5.68 min Scan# 900

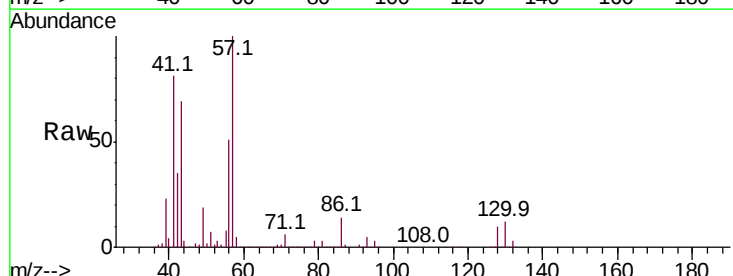
Delta R.T. 0.44 min

Lab File: VL038036.D

Acq: 16 Nov 2021 12:30

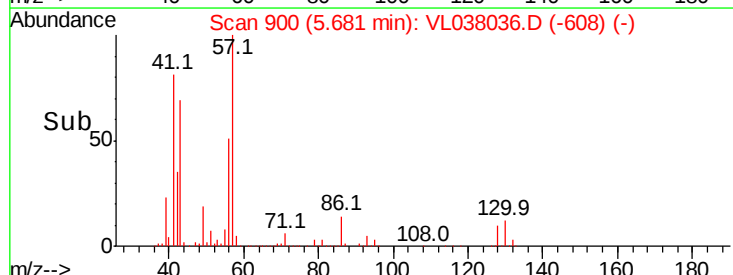
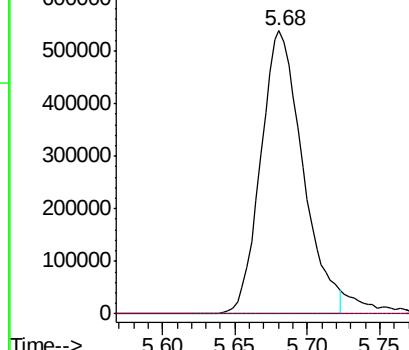
Tgt Ion: 43 Resp: 1087302

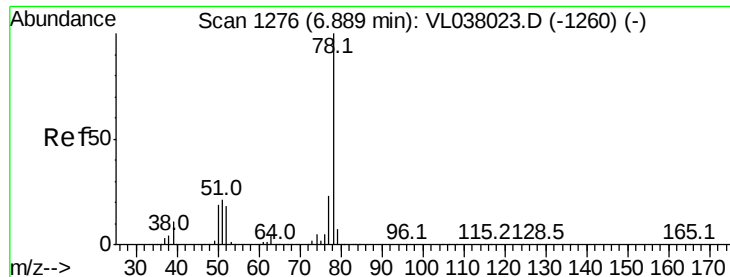
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.2	27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

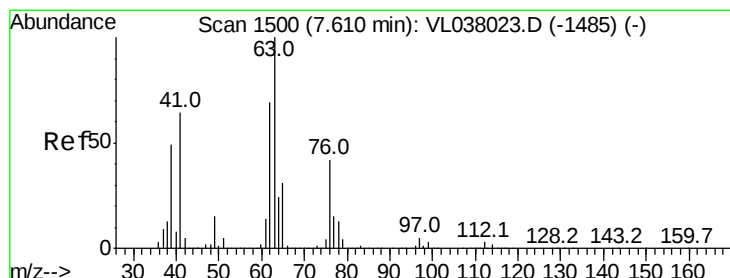
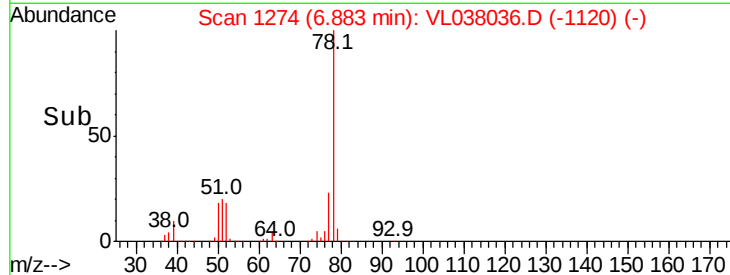
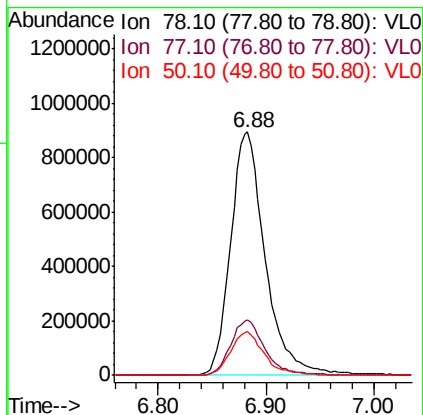
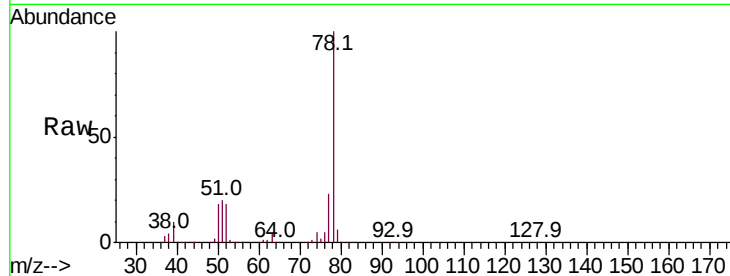




#36
Benzene
Concen: 7.789 ppbv
RT: 6.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Nov 2021 12:30

Tot Ion: 78 Resp: 1991807

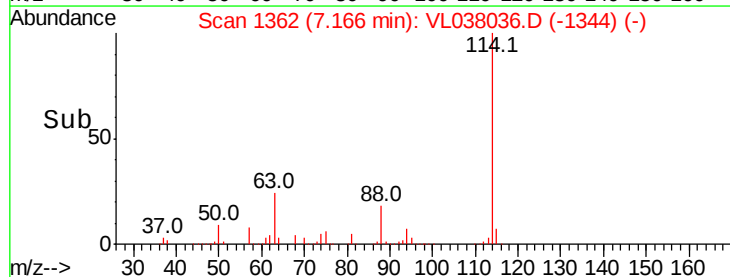
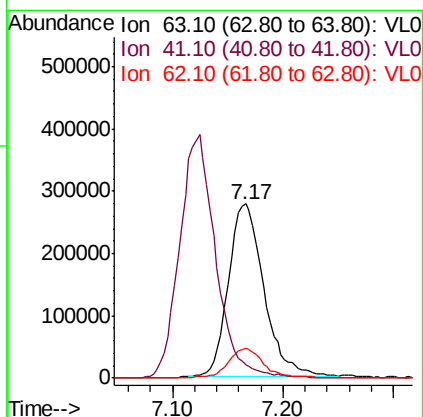
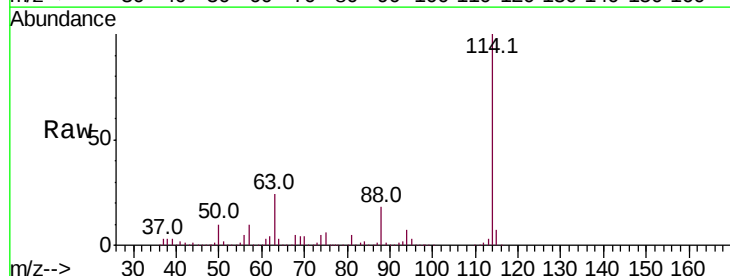
Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.8	28.2
50	18.2	14.9	22.3

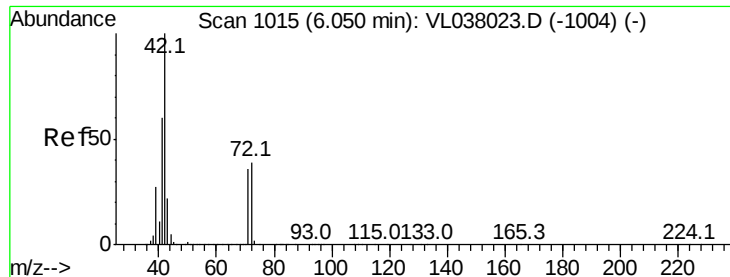


#39
1,2-Dichloropropane
Concen: 6.223 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.44 min
Lab File: VL038036.D
Acq: 16 Nov 2021 12:30

Tgt Ion: 63 Resp: 615120

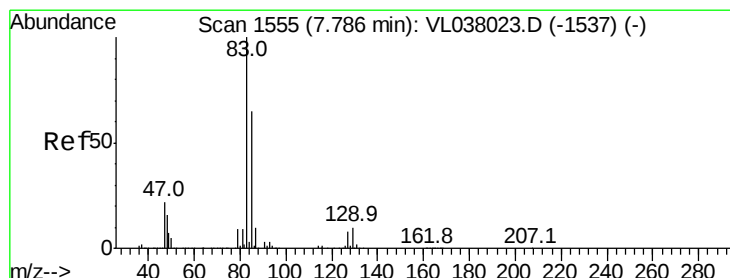
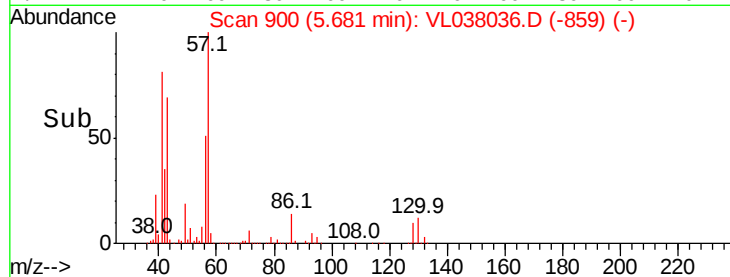
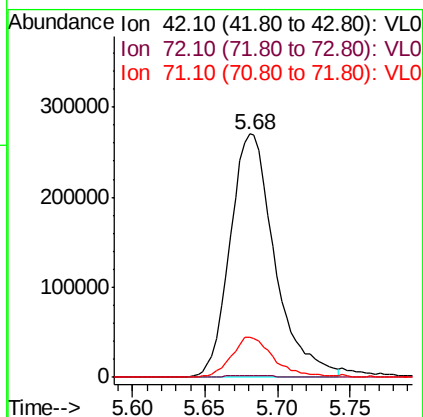
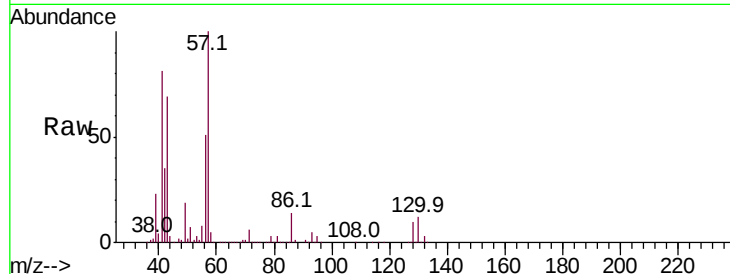
Ion	Ratio	Lower	Upper
63	100		
41	7.6	51.1	76.7#
62	17.3	55.2	82.8#





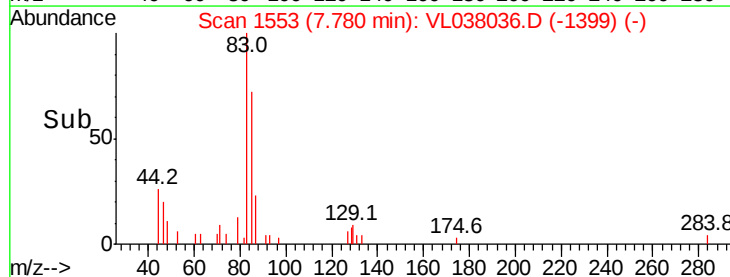
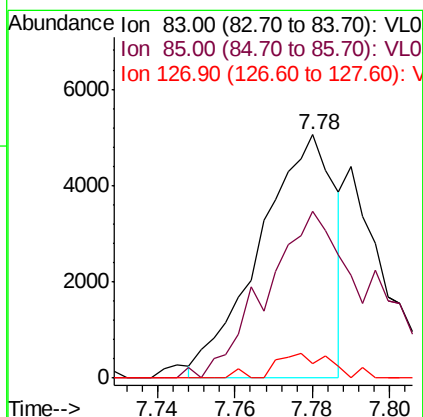
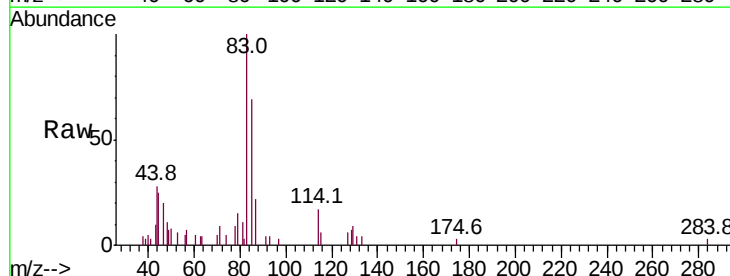
#41
Tetrahydrofuran
Concen: 9.030 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Nov 2021 12:30

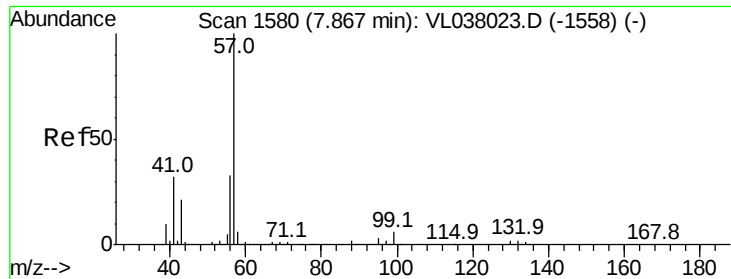
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.8	31.3	46.9#
71	16.3	29.7	44.5#



#42
Bromodichloromethane
Concen: 0.036 ppbv
RT: 7.78 min Scan# 1553
Delta R.T. -0.01 min
Lab File: VL038036.D
Acq: 16 Nov 2021 12:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.6	51.6	77.4
127	6.0	6.6	10.0#





#44

2,2,4-Trimethylpentane

Concen: 2.034 ppbv

RT: 8.11 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 16 Nov 2021 12:30

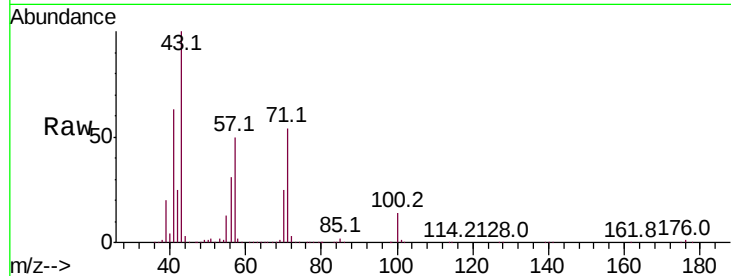
Tot Ion: 57 Resp: 893443

Ion Ratio Lower Upper

57 100

41 0.0 26.2 39.2#

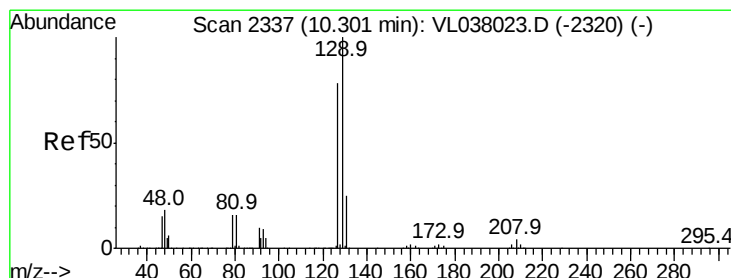
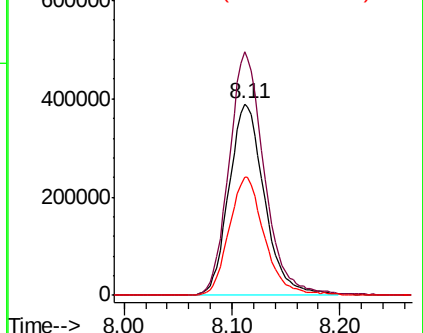
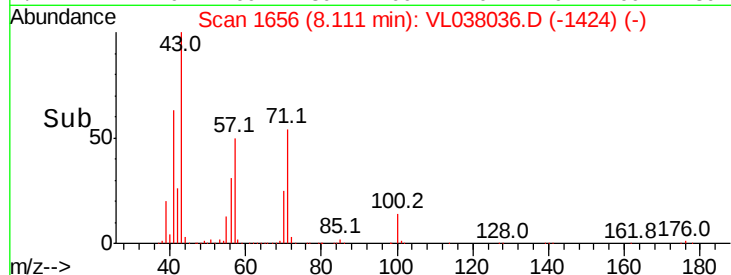
56 62.2 25.5 38.3#



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



#48

Dibromochloromethane

Concen: 7.424 ppbv

RT: 10.29 min Scan# 2334

Delta R.T. -0.01 min

Lab File: VL038036.D

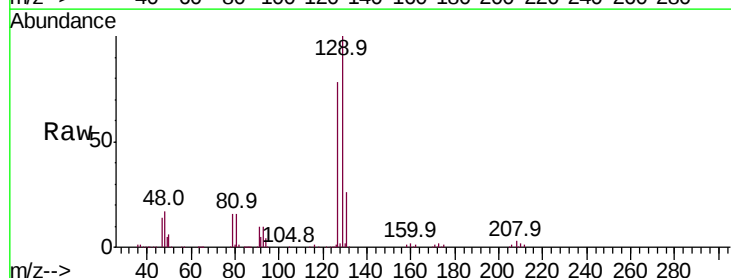
Acq: 16 Nov 2021 12:30

Tgt Ion: 129 Resp: 1211990

Ion Ratio Lower Upper

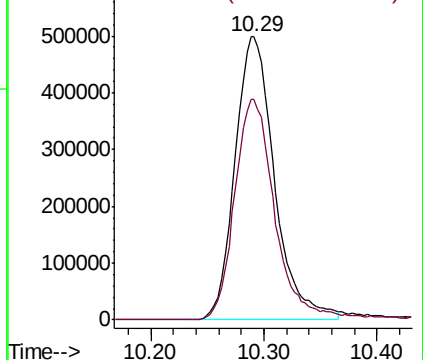
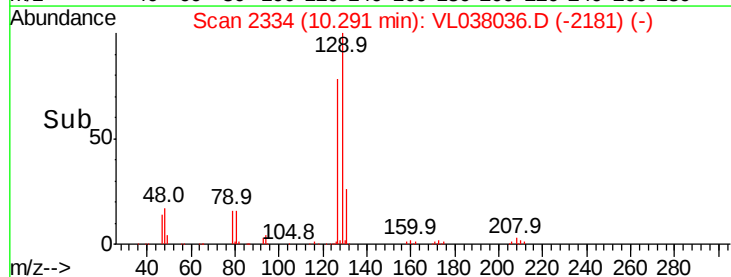
129 100

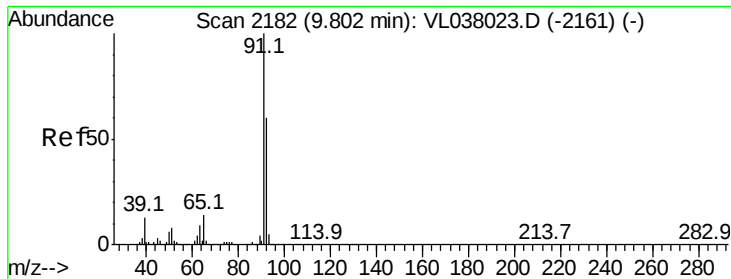
127 81.6 40.1 120.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#53

Toluene

Concen: 7.483 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

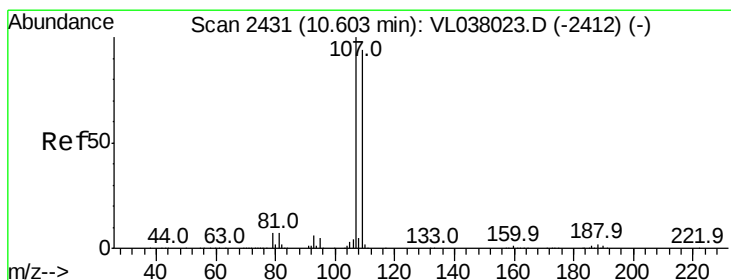
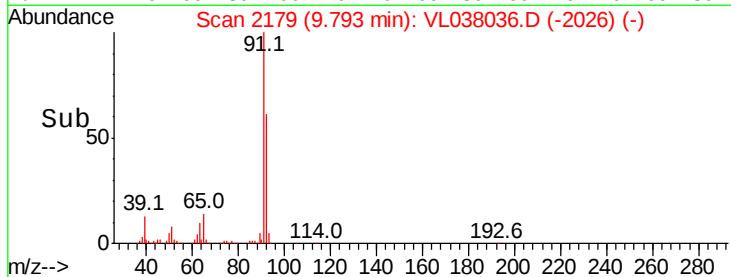
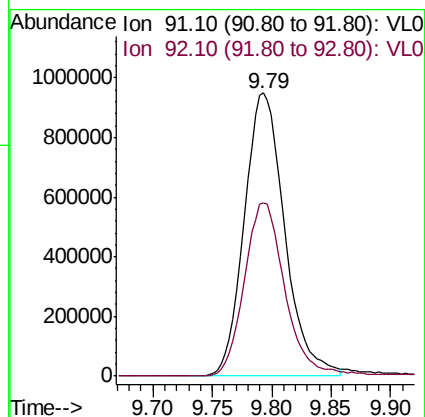
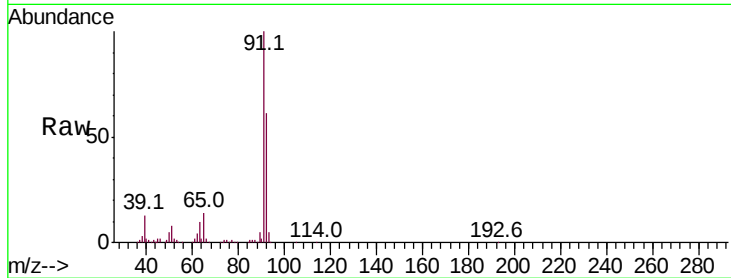
Acq: 16 Nov 2021 12:30

Tot Ion: 91 Resp: 2237690

Ion Ratio Lower Upper

91 100

92 62.8 49.5 74.3



#54

1,2-Dibromoethane

Concen: 13.557 ppbv

RT: 10.60 min Scan# 2429

Delta R.T. -0.01 min

Lab File: VL038036.D

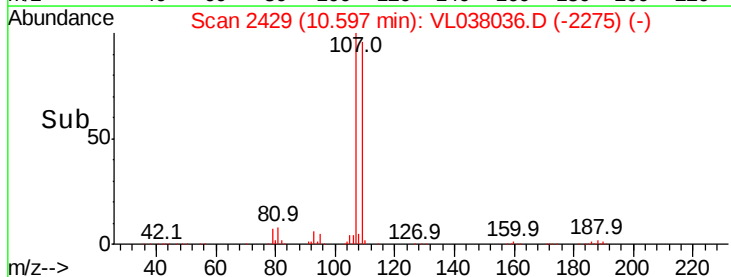
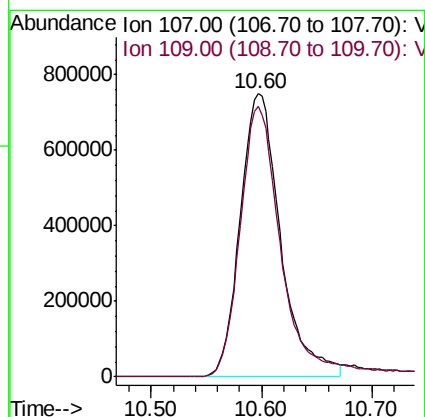
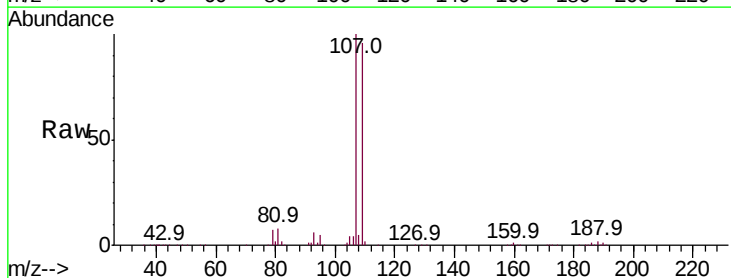
Acq: 16 Nov 2021 12:30

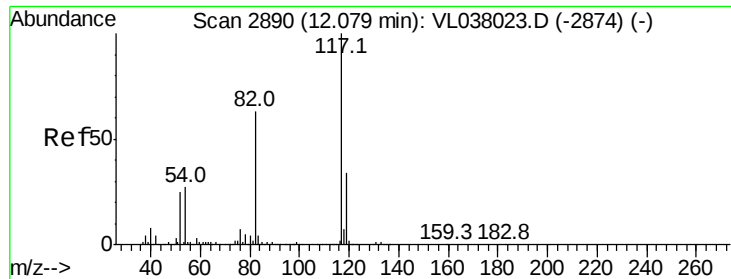
Tgt Ion: 107 Resp: 1907074

Ion Ratio Lower Upper

107 100

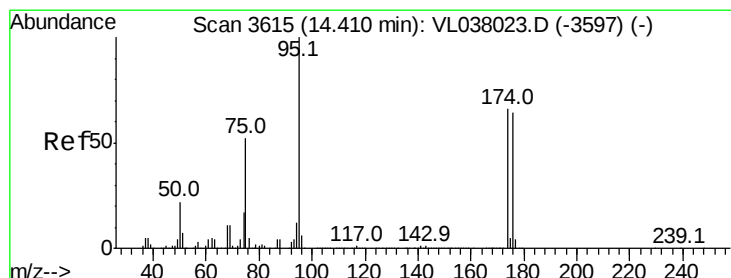
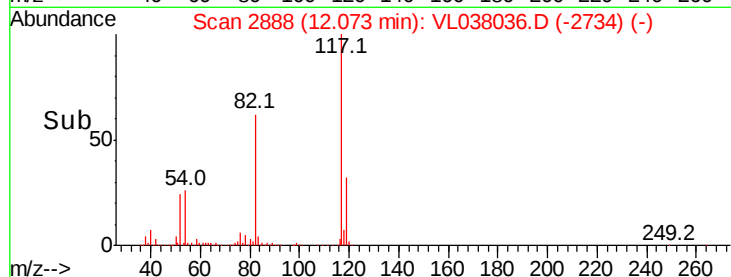
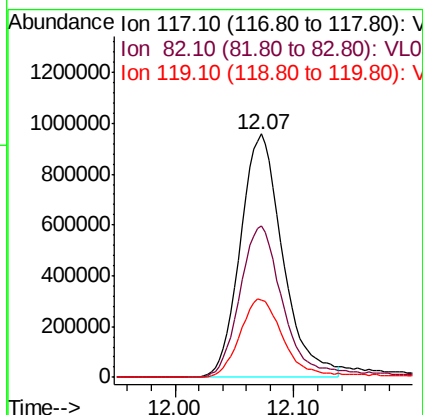
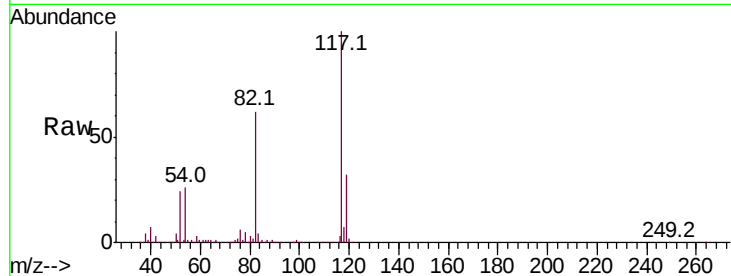
109 95.7 75.0 112.6





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 16 Nov 2021 12:30

Tot Ion: 117 Resp: 2365225
 Ion Ratio Lower Upper
 117 100
 82 66.4 50.0 75.0
 119 34.7 44.6 67.0#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.361 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. -0.01 min
 Lab File: VL038036.D
 Acq: 16 Nov 2021 12:30

Tgt Ion: 95 Resp: 1770537
 Ion Ratio Lower Upper
 95 100
 174 68.0 55.0 82.6
 175 5.0 4.2 6.2

