

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032122\
 Data File : VL038660.D
 Acq On : 21 Mar 2022 21:26
 Operator : SY/AP
 Sample : N1645-14 0.1 LOQ
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2022

Quant Time: Mar 22 03:50:19 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	936109	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2359429	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2074922	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1509798	9.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	18708	0.15	ppbv	97
3) Chlorodifluoromethane	2.99	51	12052	0.12	ppbv	97
4) Chloromethane	3.14	50	6766	0.12	ppbv	89
5) Vinyl Chloride	3.26	62	4433	0.08	ppbv	95
6) Bromomethane	3.47	94	1865	0.06	ppbv	99
7) Chloroethane	3.56	64	946	0.05	ppbv #	88
8) Dichlorotetrafluoroethane	3.19	85	15751	0.13	ppbv	99
9) Propene	3.01	41	2619	0.05	ppbv #	15
10) Heptane	8.11	43	7958	0.07	ppbv	85
11) Trichlorofluoromethane	3.95	101	12519	0.11	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.48	101	8915	0.10	ppbv	91
13) Ethanol	3.62	45	180	0.03	ppbv #	37
14) Bromoethene	3.74	108	1611	0.04	ppbv #	1
15) Acetone	3.88	43	10364	0.13	ppbv #	86
16) 1,3-Butadiene	3.33	39	3056	0.07	ppbv #	38
18) 1,1-Dichloroethene	4.29	96	4147	0.11	ppbv	92
19) Isopropyl Alcohol	3.99	45	2791	0.06	ppbv #	65
20) Methylene Chloride	4.35	84	2864	0.08	ppbv #	63
21) Allyl Chloride	4.40	41	2776	0.05	ppbv #	23
22) trans-1,2-Dichloroethene	4.88	96	1947	0.05	ppbv	98
24) 1,1-Dichloroethane	5.01	63	7716	0.10	ppbv #	96
25) Ethyl Acetate	5.69	43	14642	0.07	ppbv #	90
26) Hexane	5.68	57	5253	0.06	ppbv #	1
27) Carbon Disulfide	4.55	76	5263	0.06	ppbv #	67
28) Methyl tert-Butyl Ether	5.05	73	4243	0.06	ppbv #	51
29) Chloroform	5.74	83	15762	0.11	ppbv	94
30) Cyclohexane	7.12	84	3590	0.05	ppbv #	1
31) cis-1,2-Dichloroethene	5.55	61	2890	0.03	ppbv #	68
32) 1,1,1-Trichloroethane	6.51	97	5902	0.04	ppbv #	1
34) 2-Butanone	5.27	43	5592	0.06	ppbv #	53
35) Carbon Tetrachloride	7.01	117	8420	0.06	ppbv #	87
36) Benzene	6.88	78	16266	0.09	ppbv	94
37) 1,2-Dichloroethane	6.30	62	7481	0.08	ppbv #	80
38) Trichloroethene	7.83	130	5035	0.07	ppbv #	89
39) 1,2-Dichloropropane	7.17	63	554365	7.79	ppbv #	28
42) Bromodichloromethane	7.79	83	12978	0.09	ppbv #	97
44) 2,2,4-Trimethylpentane	7.86	57	23845	0.08	ppbv #	81
46) cis-1,3-Dichloropropene	8.69	75	2338	0.03	ppbv #	78
47) 1,1,2-Trichloroethane	9.47	97	3187	0.04	ppbv #	86
48) Dibromochloromethane	10.30	129	6456	0.05	ppbv	61
49) Bromoform	13.02	173	4214	0.04	ppbv #	53

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

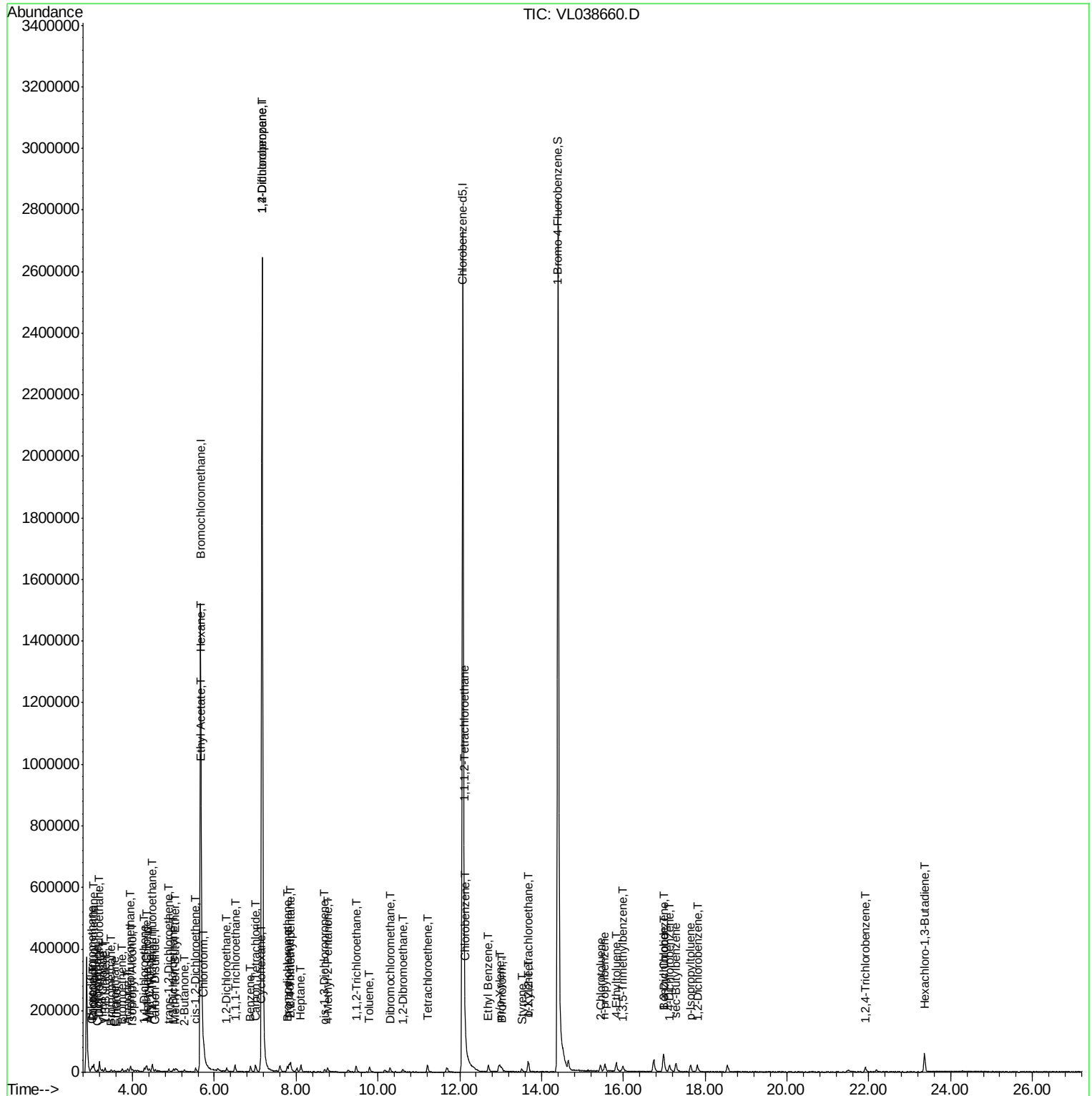
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 4-Methyl-2-Pentanone	8.77	43	5596	0.03	ppbv #	60
52) Tetrachloroethene	11.21	164	2846	0.04	ppbv #	23
53) Toluene	9.79	91	13811	0.07	ppbv	98
54) 1,2-Dibromoethane	10.60	107	5092	0.05	ppbv	85
56) 1,1,1,2-Tetrachloroethane	12.11	131	6968	0.08	ppbv #	50
57) Chlorobenzene	12.13	112	17556	0.12	ppbv #	81
58) Ethyl Benzene	12.70	91	8552	0.04	ppbv	89
59) m/p-Xylene	12.99	91	4470	0.02	ppbv #	30
60) o-Xylene	13.68	91	14185	0.07	ppbv	93
61) Styrene	13.51	104	2683	0.02	ppbv #	55
63) 1,1,2,2-Tetrachloroethane	13.66	83	5649	0.04	ppbv #	25
64) n-propylbenzene	15.55	120	4144	0.05	ppbv #	1
66) Benzyl Chloride	16.98	91	1362	0.03	ppbv #	65
67) sec-Butylbenzene	17.28	105	14285	0.04	ppbv #	58
69) p-Isopropyltoluene	17.64	119	16058	0.05	ppbv #	87
71) 2-Chlorotoluene	15.44	91	9256	0.04	ppbv #	42
72) 4-Ethyltoluene	15.83	105	11493	0.05	ppbv #	86
73) 1,3,5-Trimethylbenzene	15.99	105	7859	0.04	ppbv #	76
75) 1,3-Dichlorobenzene	16.99	146	5949	0.04	ppbv #	1
76) 1,4-Dichlorobenzene	17.13	146	11247	0.08	ppbv #	45
77) 1,2-Dichlorobenzene	17.81	146	11216	0.08	ppbv	88
78) Hexachloro-1,3-Butadiene	23.37	225	10635	0.08	ppbv #	58
81) 1,2,4-Trichlorobenzene	21.92	180	2977	0.02	ppbv #	1

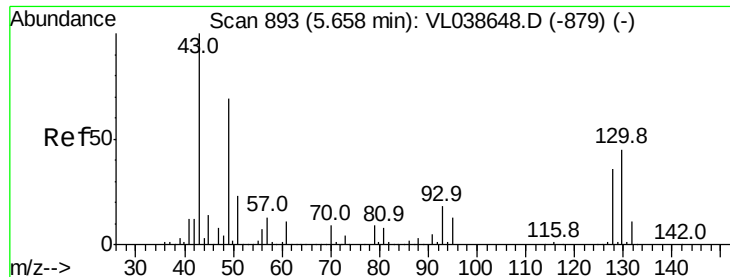
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 21:20

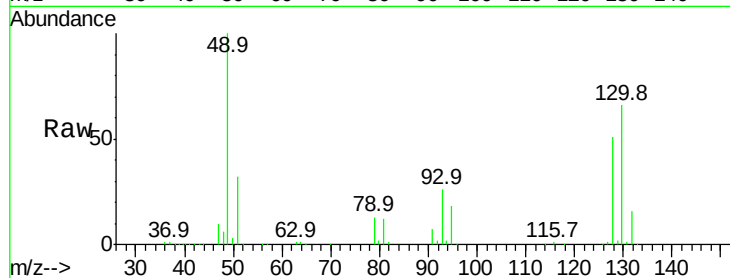
Tgt Ion: 49 Resp: 936109

Ion Ratio Lower Upper

49 100

128 52.5 26.2 78.6

130 67.9 33.7 101.1



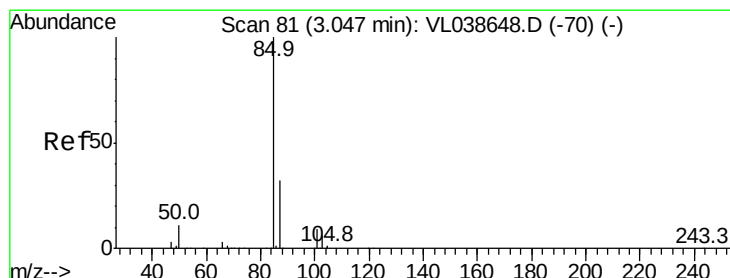
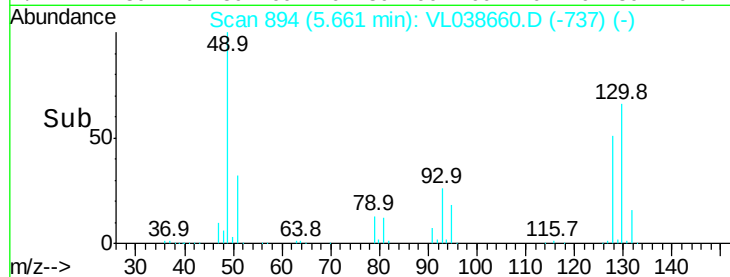
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

Time-->



#2

Dichlorodifluoromethane

Concen: 0.15 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038660.D

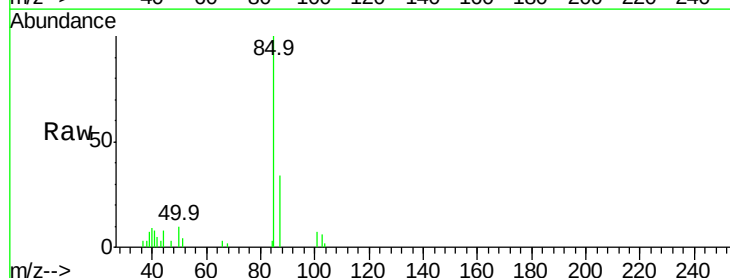
Acq: 21 Mar 2022 21:26

Tgt Ion: 85 Resp: 18708

Ion Ratio Lower Upper

85 100

87 34.3 26.0 39.0

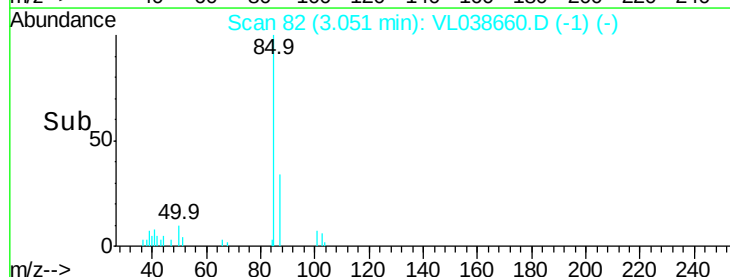


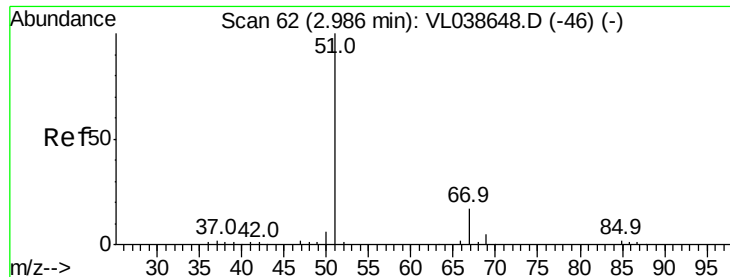
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.12 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

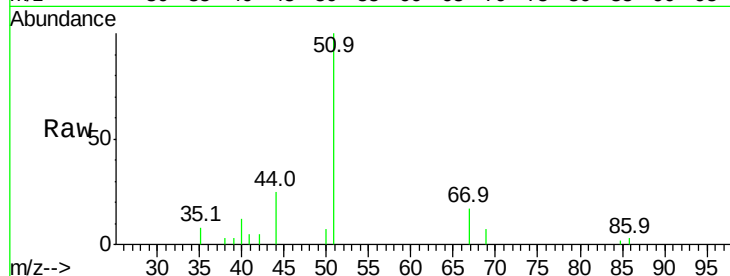
Acq: 21 Mar 2022 21:20

Tgt Ion: 51 Resp: 12052

Ion Ratio Lower Upper

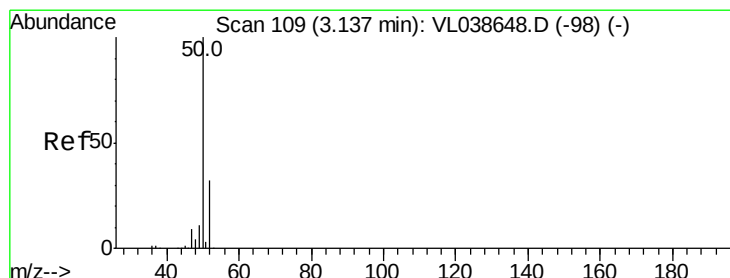
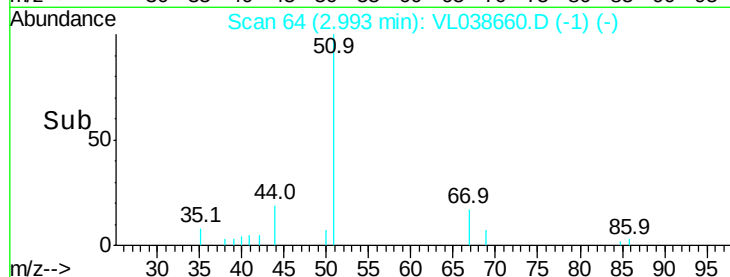
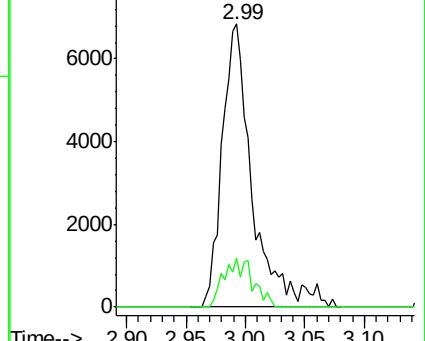
51 100

67 16.4 14.1 21.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.12 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL038660.D

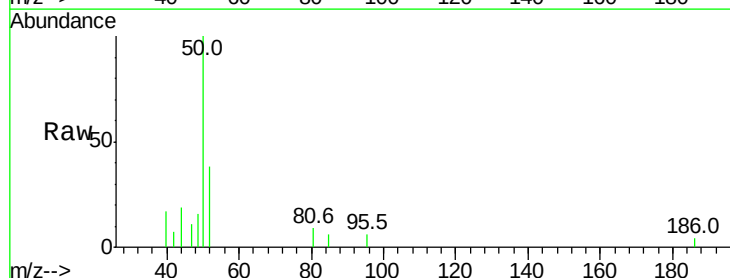
Acq: 21 Mar 2022 21:26

Tgt Ion: 50 Resp: 6766

Ion Ratio Lower Upper

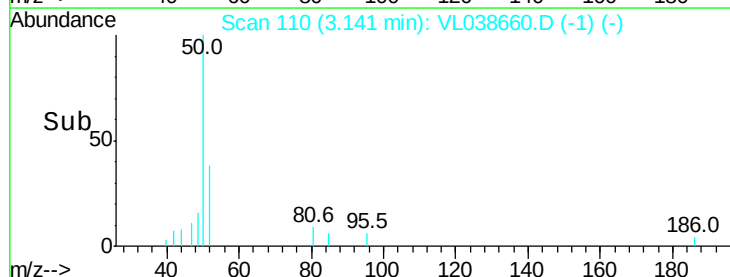
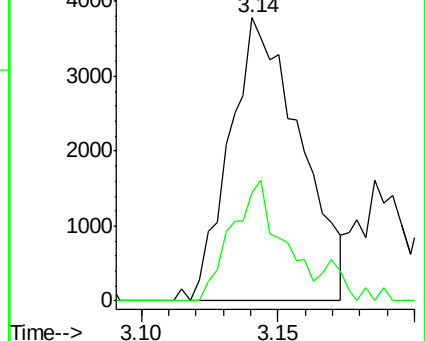
50 100

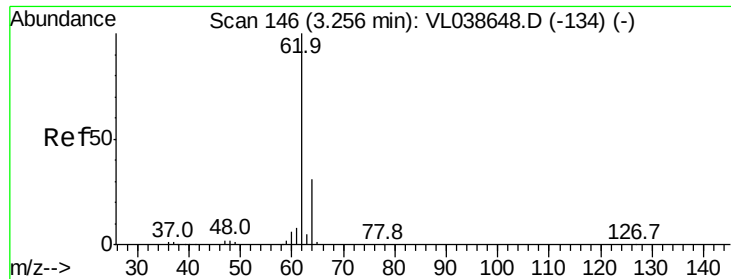
52 38.0 25.5 38.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.08 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

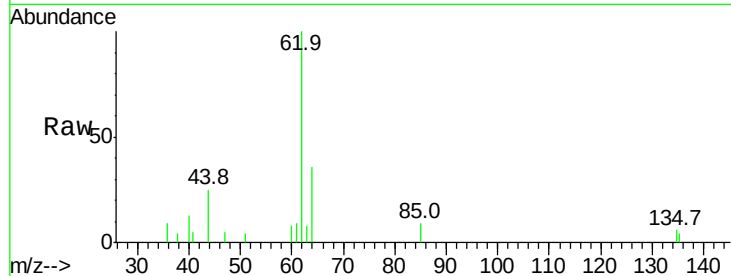
Acq: 21 Mar 2022 21:20

Tgt Ion: 62 Resp: 4433

Ion Ratio Lower Upper

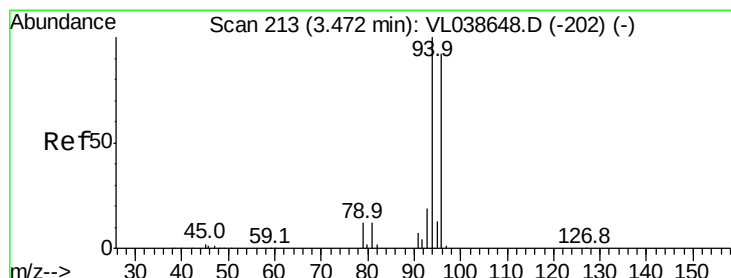
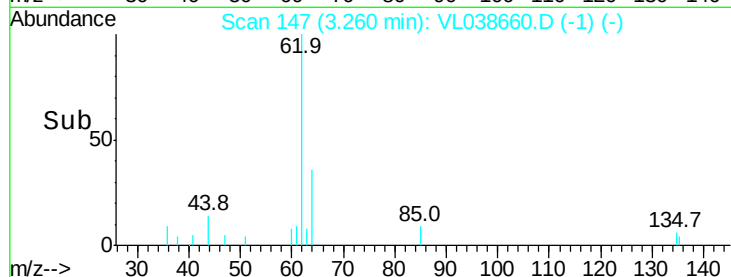
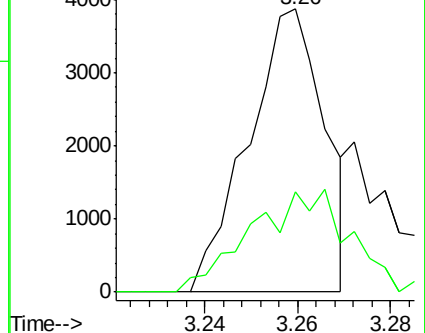
62 100

64 28.4 25.0 37.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.06 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL038660.D

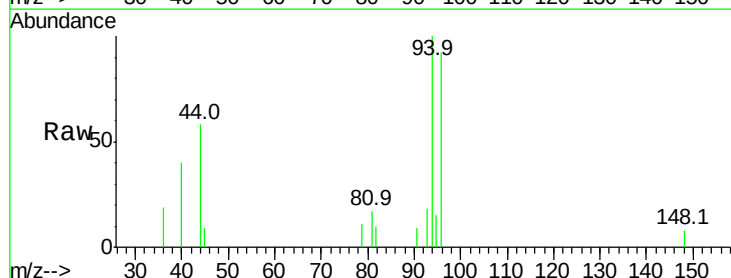
Acq: 21 Mar 2022 21:26

Tgt Ion: 94 Resp: 1865

Ion Ratio Lower Upper

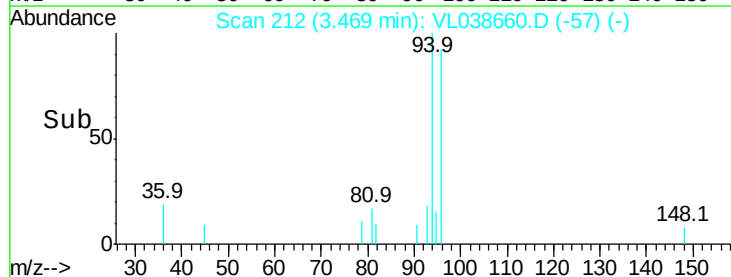
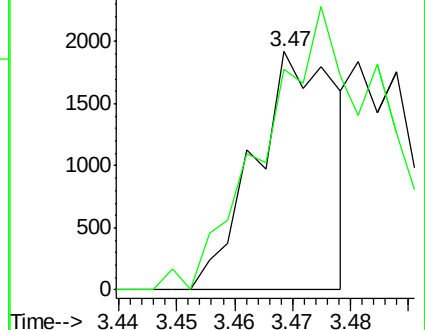
94 100

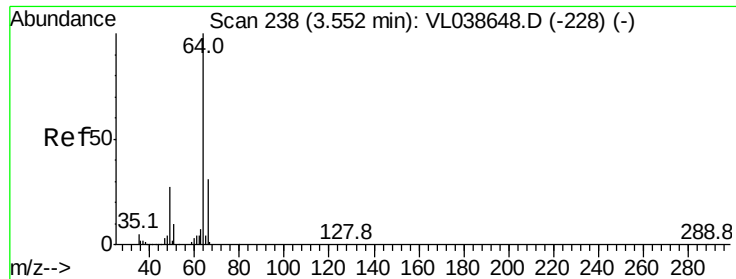
96 92.3 73.3 109.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.05 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

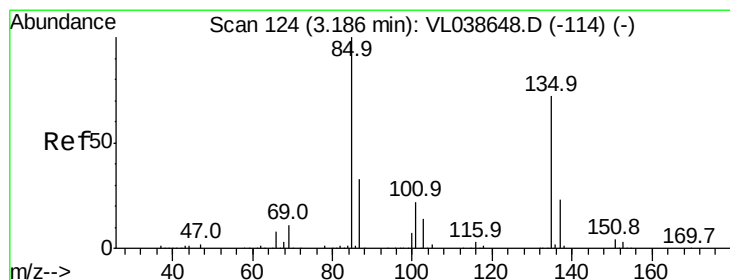
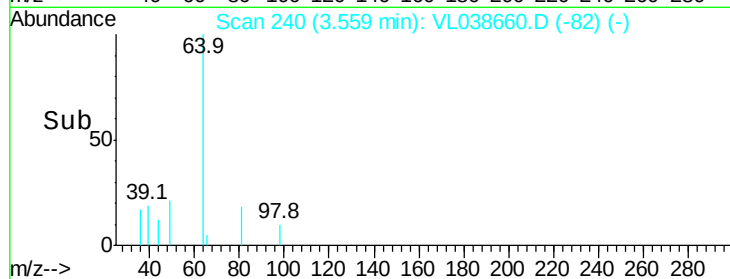
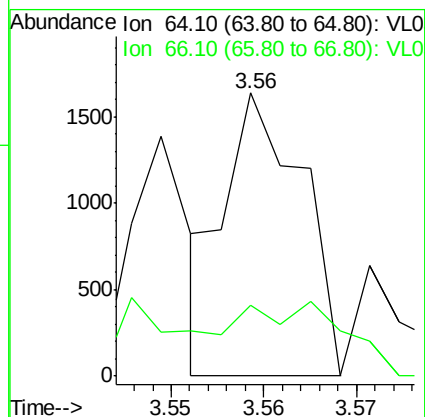
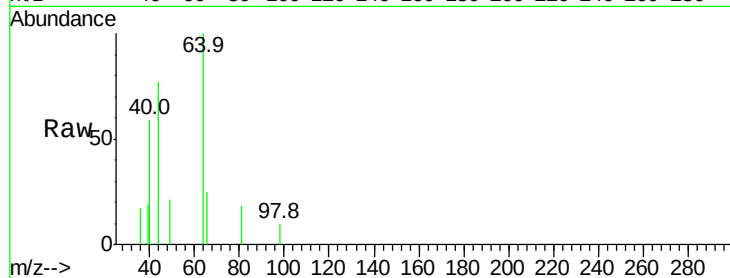
Acq: 21 Mar 2022 21:20

Tgt Ion: 64 Resp: 946

Ion Ratio Lower Upper

64 100

66 24.8 25.0 37.6#



#8

Dichlorotetrafluoroethane

Concen: 0.13 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.00 min

Lab File: VL038660.D

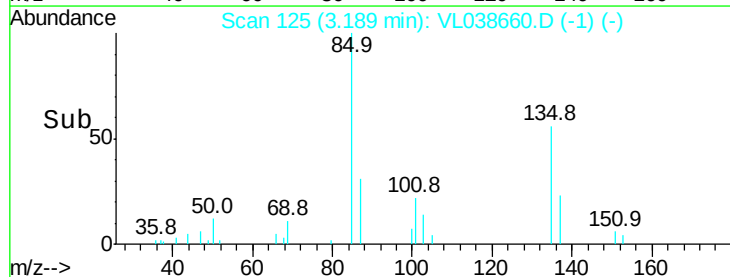
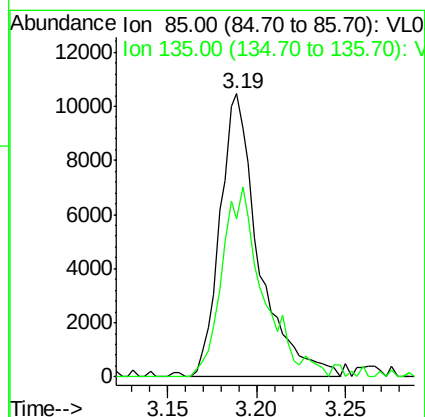
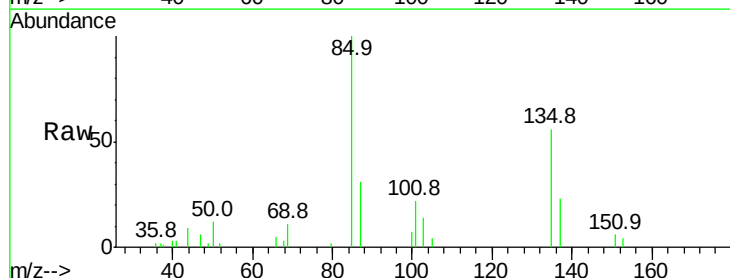
Acq: 21 Mar 2022 21:26

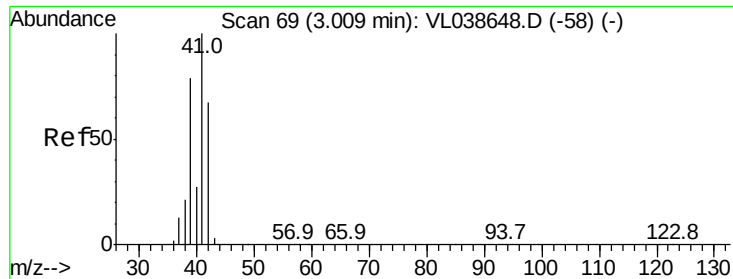
Tgt Ion: 85 Resp: 15751

Ion Ratio Lower Upper

85 100

135 73.4 57.8 86.6





#9

Propene

Concen: 0.05 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

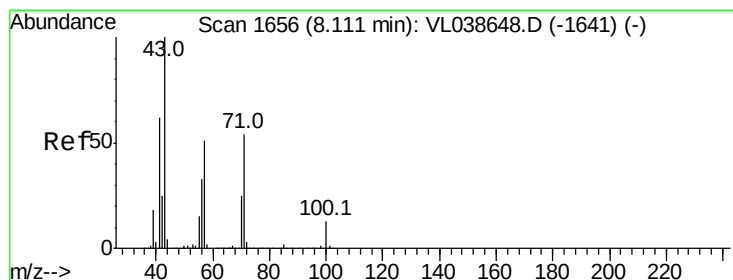
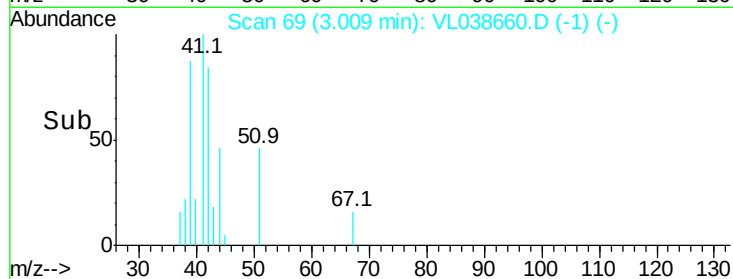
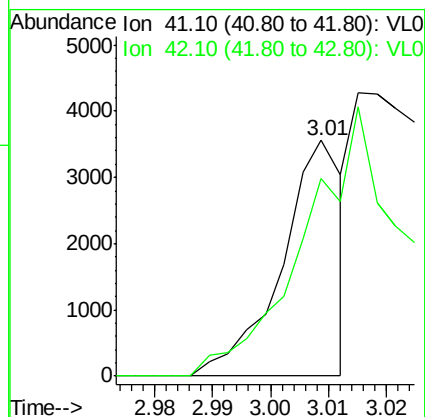
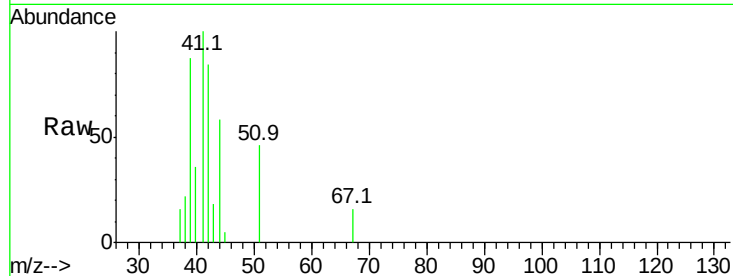
Acq: 21 Mar 2022 21:20

Tgt Ion: 41 Resp: 2619

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.4#



#10

Heptane

Concen: 0.07 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VL038660.D

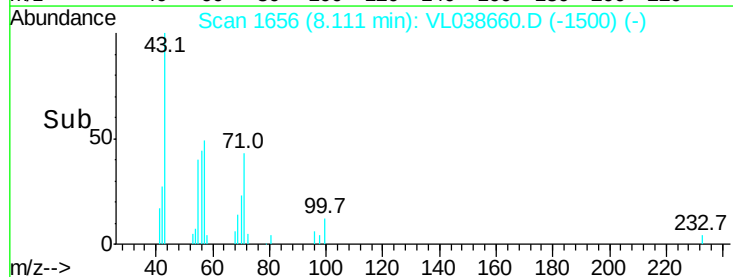
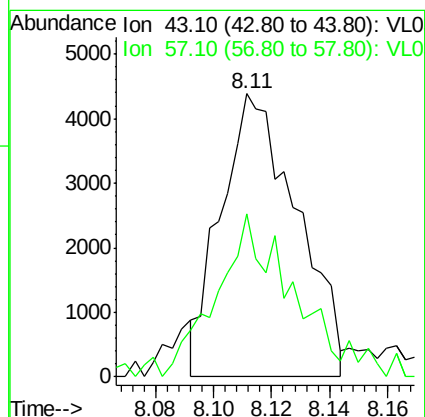
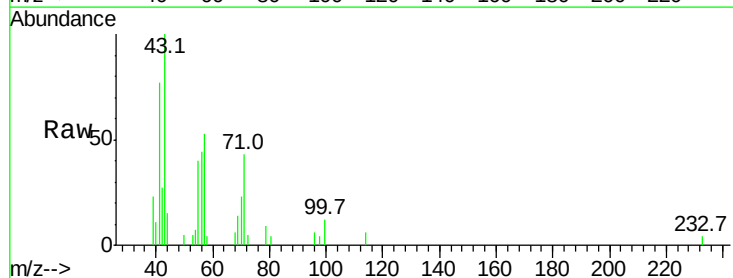
Acq: 21 Mar 2022 21:26

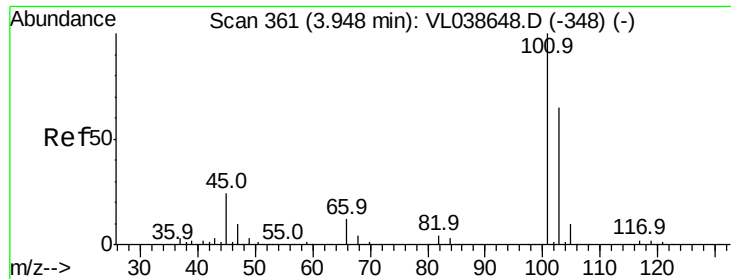
Tgt Ion: 43 Resp: 7958

Ion Ratio Lower Upper

43 100

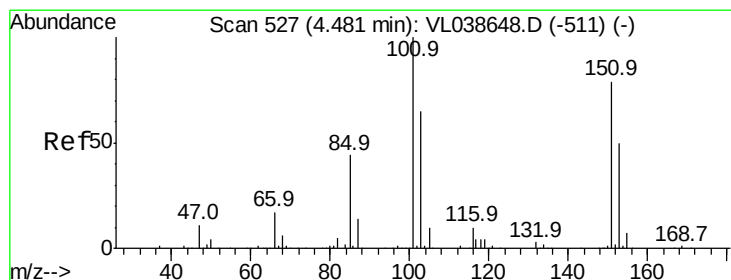
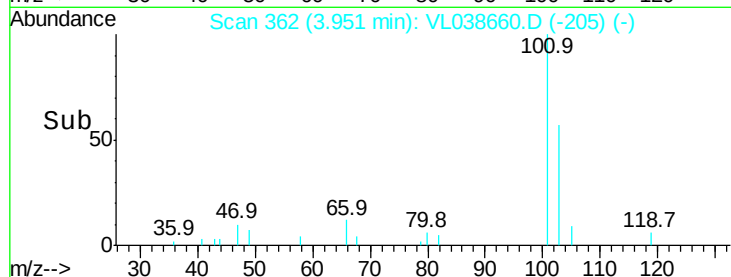
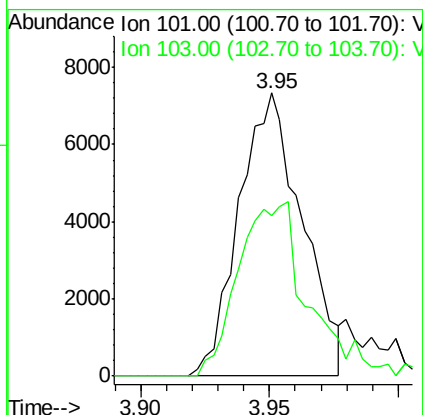
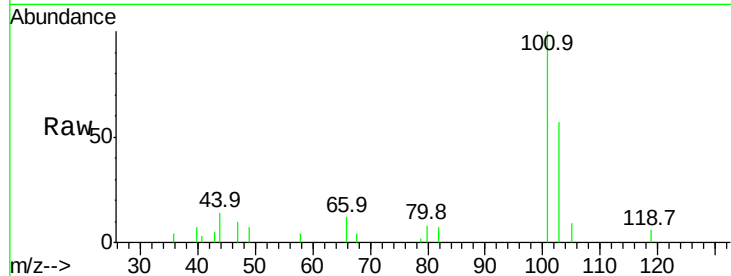
57 62.0 41.4 62.2





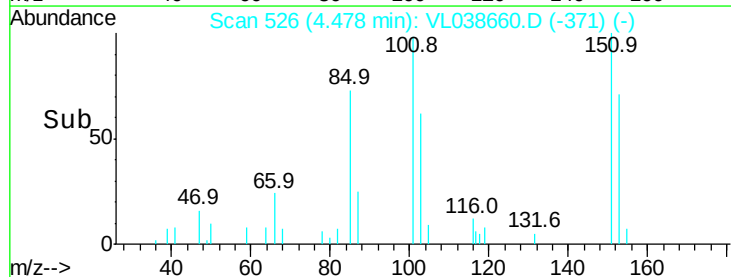
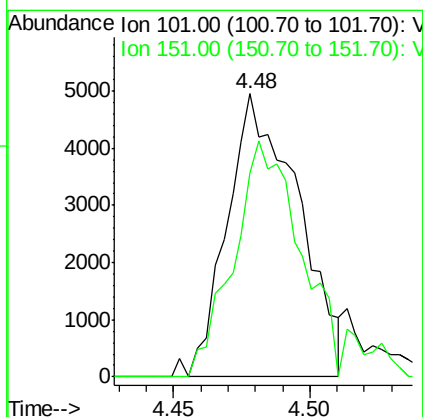
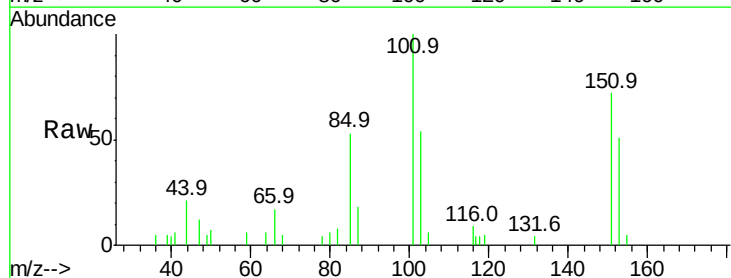
#11
 Trichlorofluoromethane
 Concen: 0.11 ppbv
 RT: 3.95 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 21 Mar 2022 21:20

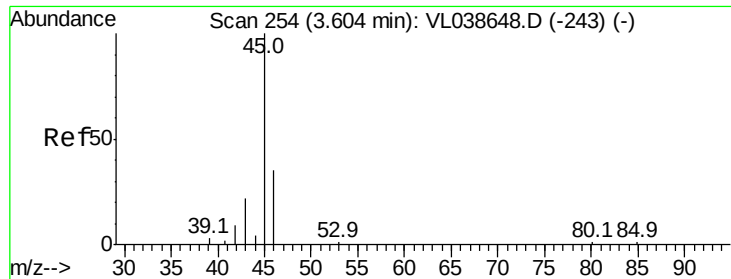
Tgt Ion:101 Resp: 12519
 Ion Ratio Lower Upper
 101 100
 103 56.6 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.10 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.00 min
 Lab File: VL038660.D
 Acq: 21 Mar 2022 21:26

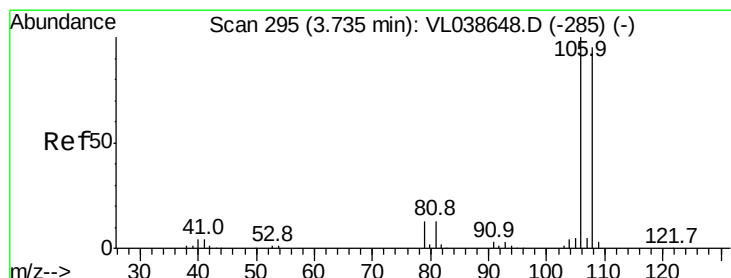
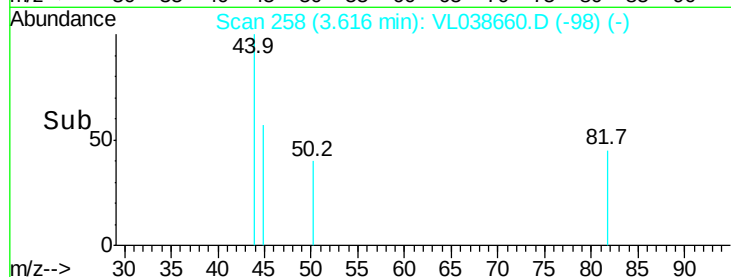
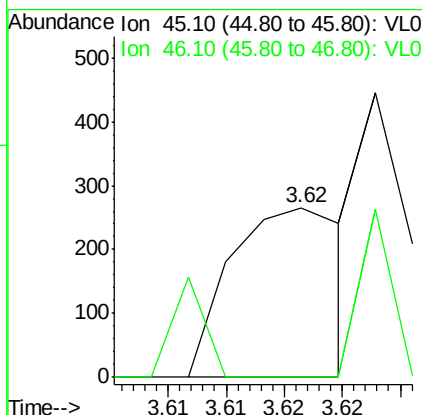
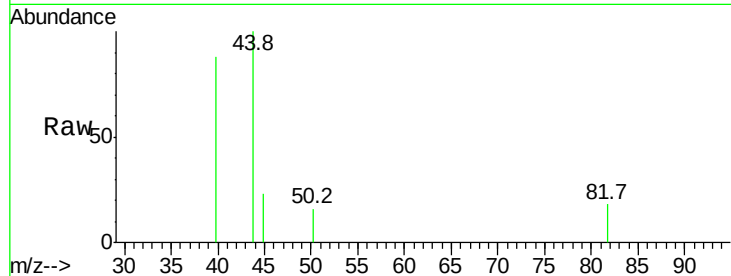
Tgt Ion:101 Resp: 8915
 Ion Ratio Lower Upper
 101 100
 151 86.2 62.9 94.3





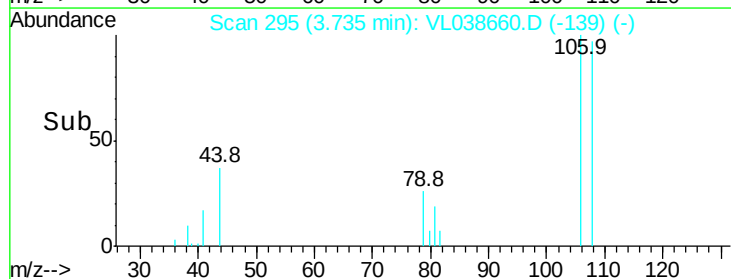
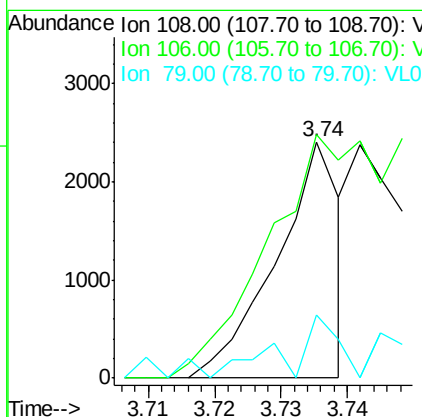
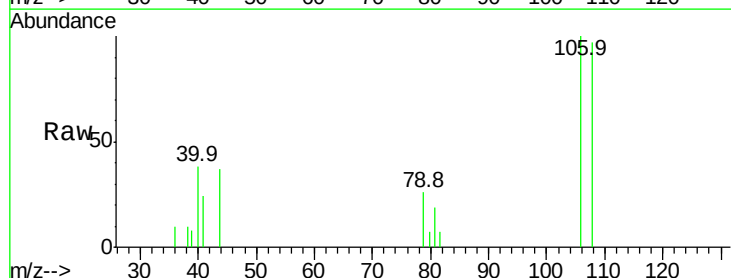
#13
Ethanol
Concen: 0.03 ppbv
RT: 3.62
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 21 Mar 2022 21:20

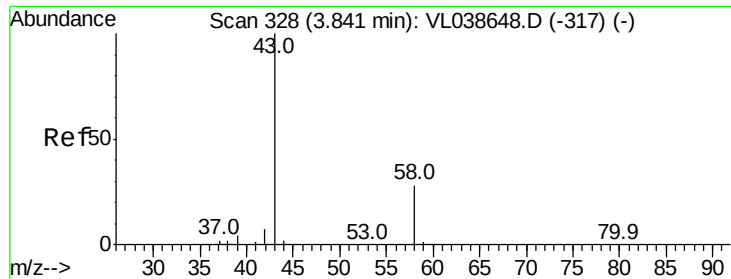
Tgt Ion: 45 Resp: 180
Ion Ratio Lower Upper
45 100
46 0.0 15.1 60.5#



#14
Bromoethene
Concen: 0.04 ppbv
RT: 3.74 min Scan# 295
Delta R.T. 0.00 min
Lab File: VL038660.D
Acq: 21 Mar 2022 21:26

Tgt Ion: 108 Resp: 1611
Ion Ratio Lower Upper
108 100
106 313.3 88.3 132.5#
79 61.1 11.2 16.8#





#15

Acetone

Concen: 0.13 ppbv

RT: 3.88 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

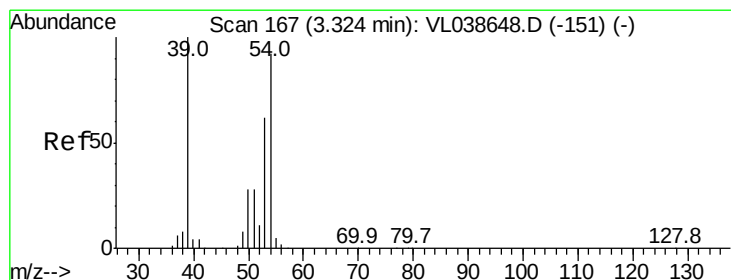
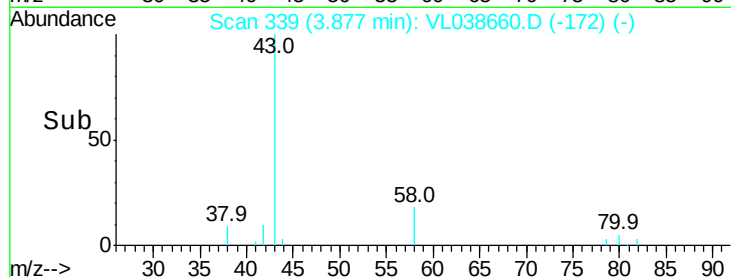
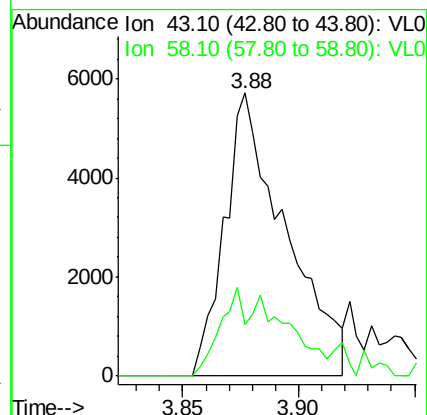
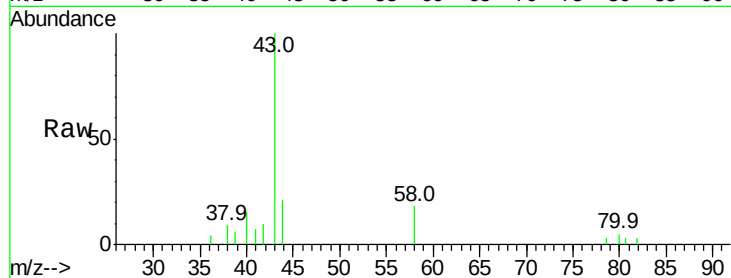
Acq: 21 Mar 2022 21:20

Tgt Ion: 43 Resp: 10364

Ion Ratio Lower Upper

43 100

58 36.7 23.3 34.9#



#16

1,3-Butadiene

Concen: 0.07 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.00 min

Lab File: VL038660.D

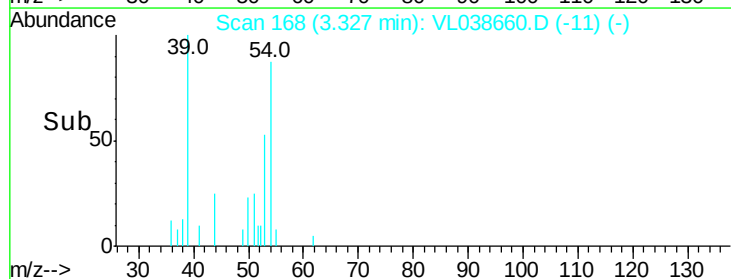
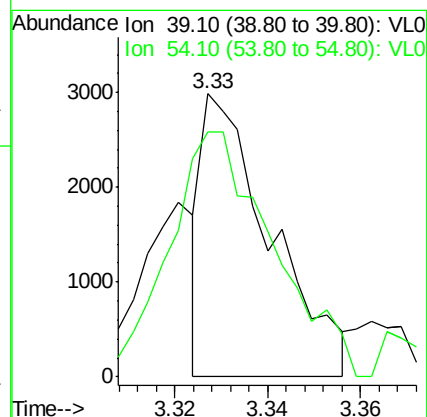
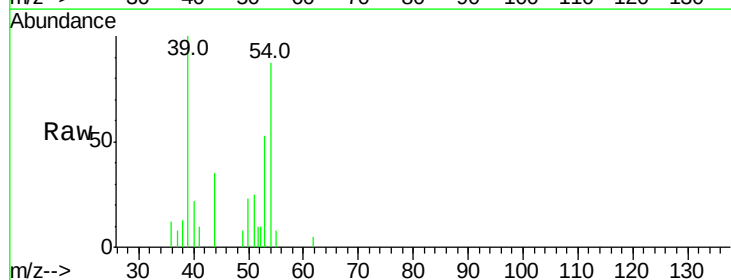
Acq: 21 Mar 2022 21:26

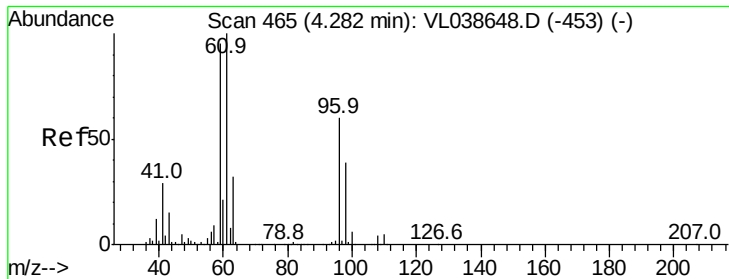
Tgt Ion: 39 Resp: 3056

Ion Ratio Lower Upper

39 100

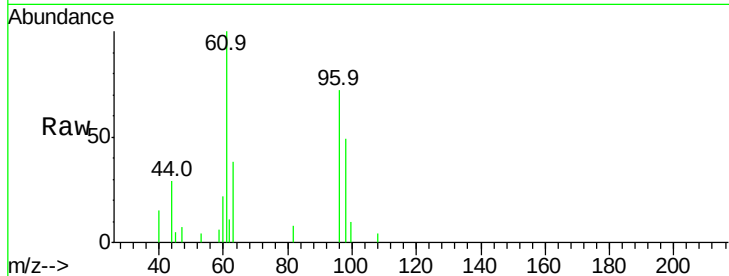
54 143.9 69.1 103.7#



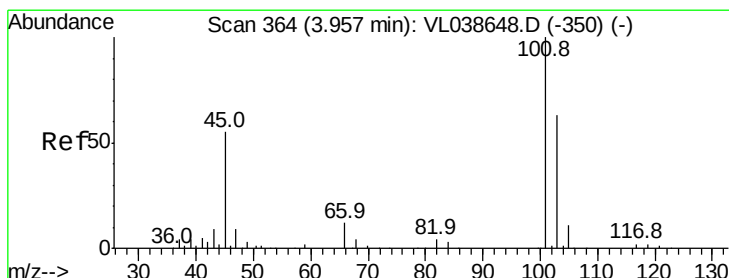
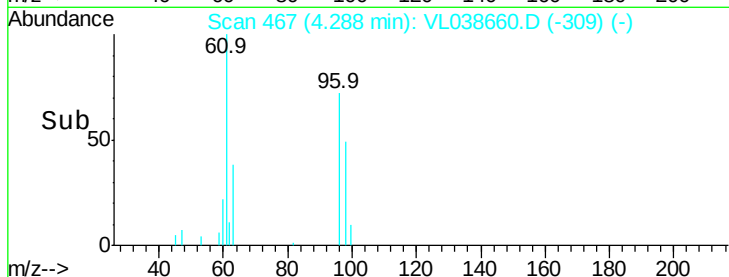
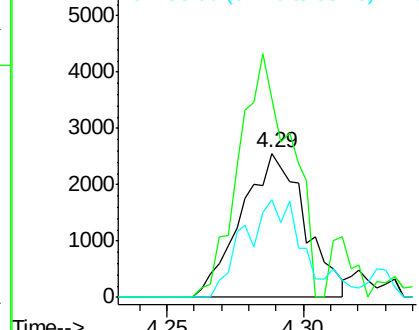


#18
 1,1-Dichloroethene
 Concen: 0.11 ppbv
 RT: 4.29
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 21 Mar 2022 21:20

Tgt Ion: 96 Resp: 4147
 Ion Ratio Lower Upper
 96 100
 61 153.3 132.4 198.6
 98 67.5 51.6 77.4

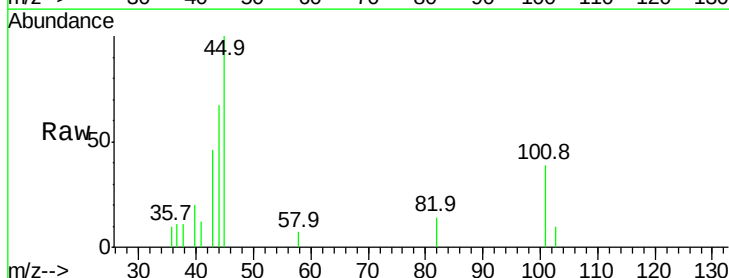


Abundance Ion 96.00 (95.70 to 96.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0

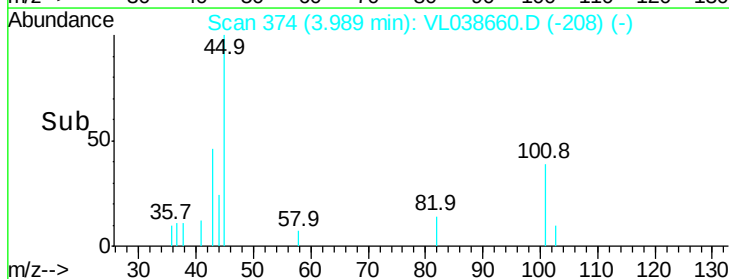
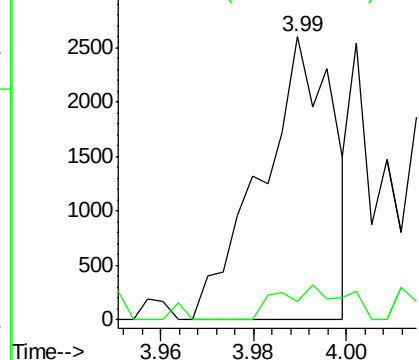


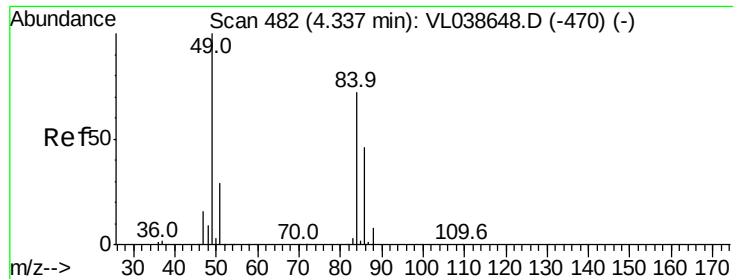
#19
 Isopropyl Alcohol
 Concen: 0.06 ppbv
 RT: 3.99 min Scan# 374
 Delta R.T. 0.03 min
 Lab File: VL038660.D
 Acq: 21 Mar 2022 21:26

Tgt Ion: 45 Resp: 2791
 Ion Ratio Lower Upper
 45 100
 58 14.5 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0





#20

Methylene Chloride

Concen: 0.08 ppbv

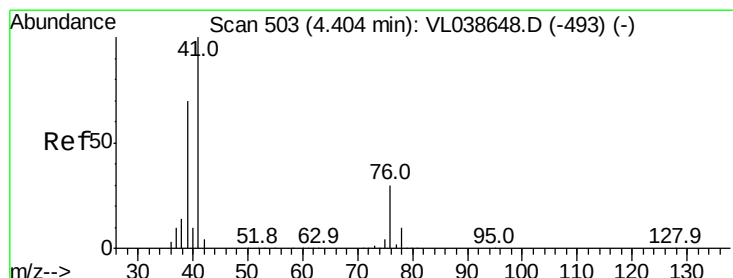
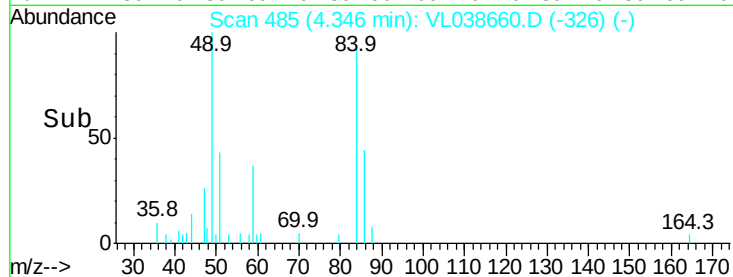
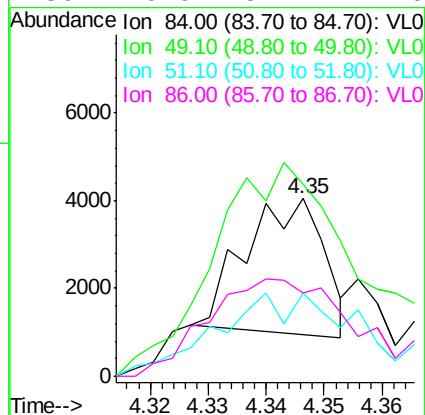
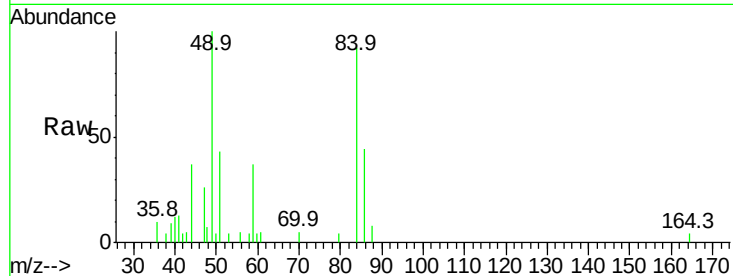
RT: 4.35

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 21:20

Tgt Ion:	84	Resp:	2864
Ion	Ratio	Lower	Upper
84	100		
49	88.5	111.2	166.8#
51	43.1	32.8	49.2
86	26.6	51.4	77.0#



#21

Allyl Chloride

Concen: 0.05 ppbv

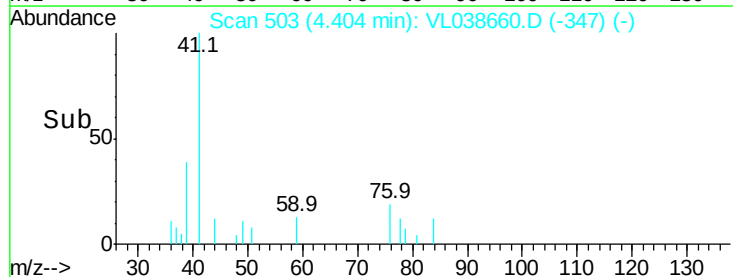
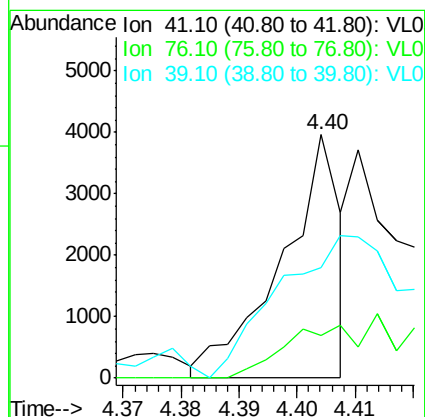
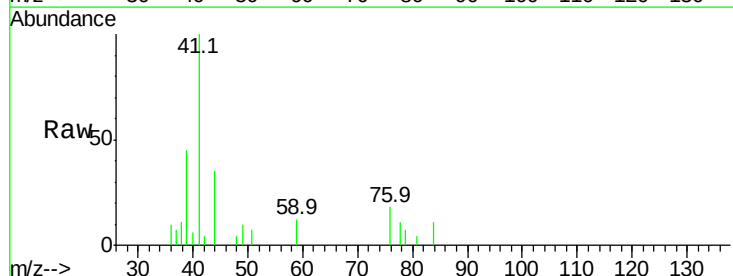
RT: 4.40 min Scan# 503

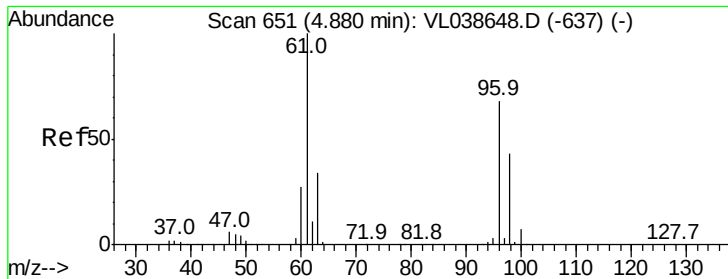
Delta R.T. 0.00 min

Lab File: VL038660.D

Acq: 21 Mar 2022 21:26

Tgt Ion:	41	Resp:	2776
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.0	37.6#
39	0.0	56.6	85.0#





#22

trans-1,2-Dichloroethene

Concen: 0.05 ppbv

RT: 4.88 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: LOQ-AIR-02-OT1-2022

Acq: 21 Mar 2022 21:20

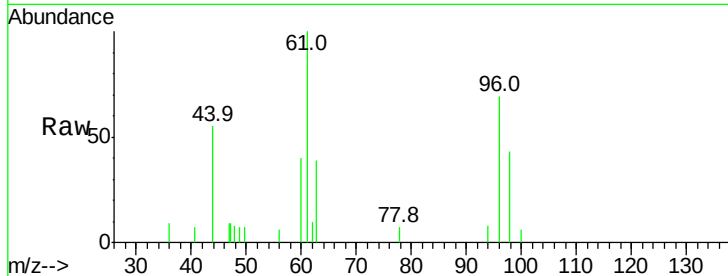
Tgt Ion: 96 Resp: 1947

Ion Ratio Lower Upper

96 100

61 144.6 118.3 177.5

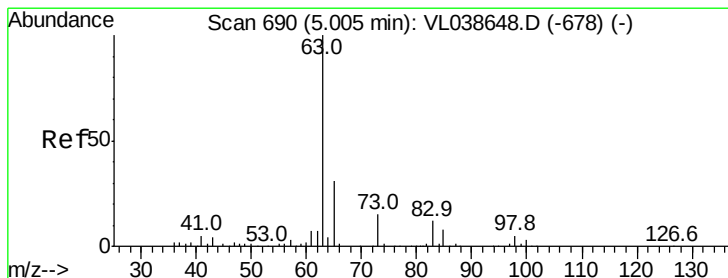
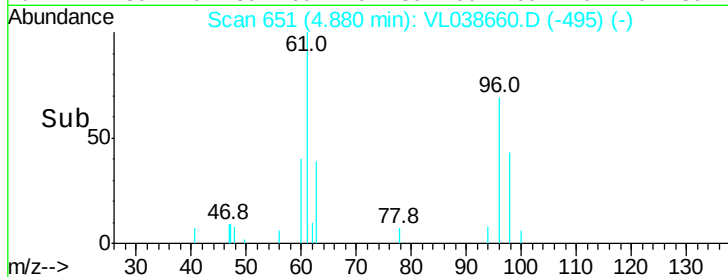
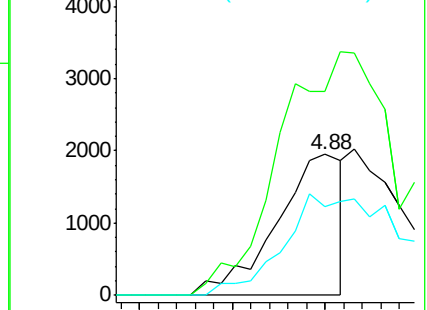
98 62.6 51.3 76.9



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#24

1,1-Dichloroethane

Concen: 0.10 ppbv

RT: 5.01 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL038660.D

Acq: 21 Mar 2022 21:26

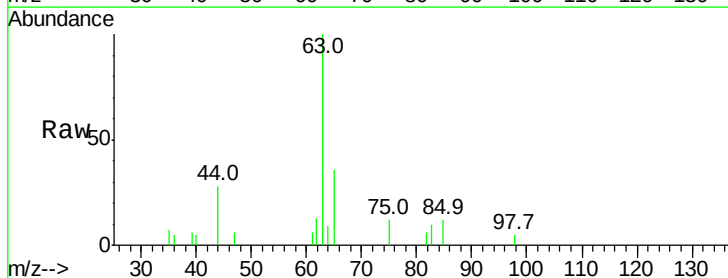
Tgt Ion: 63 Resp: 7716

Ion Ratio Lower Upper

63 100

98 4.5 2.5 7.5

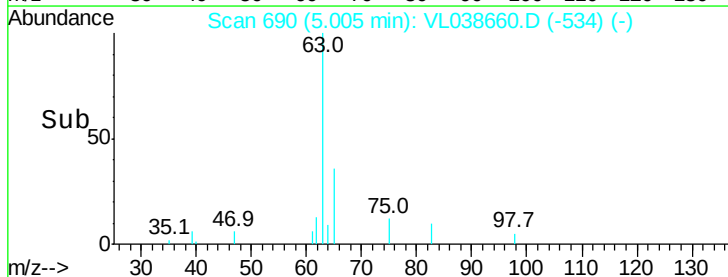
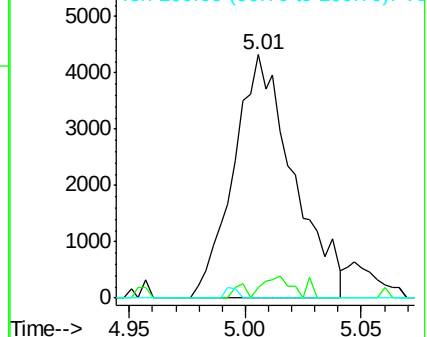
100 0.0 1.4 4.2#

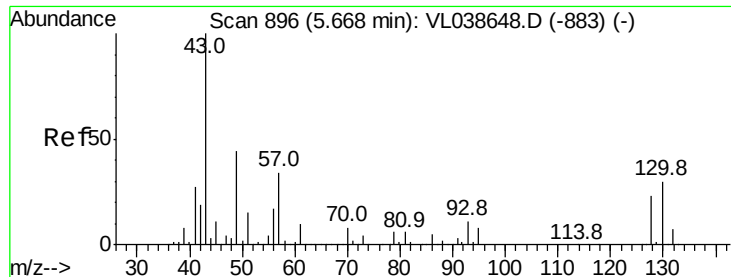


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

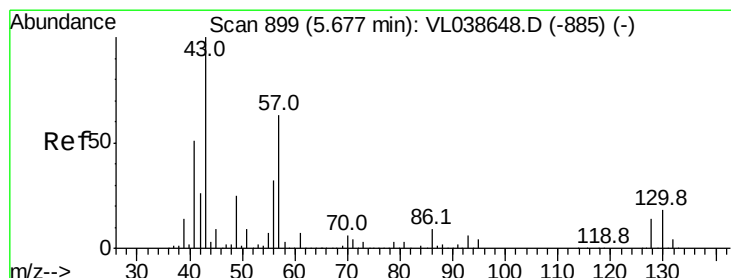
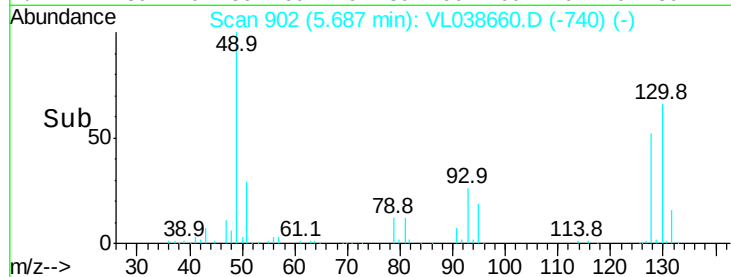
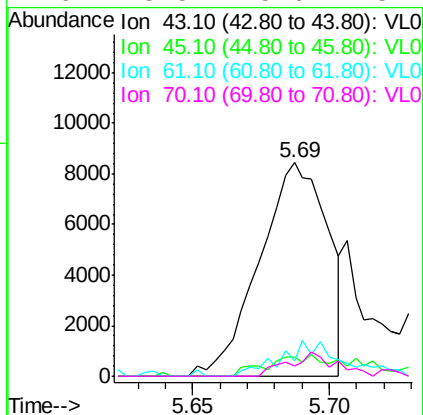
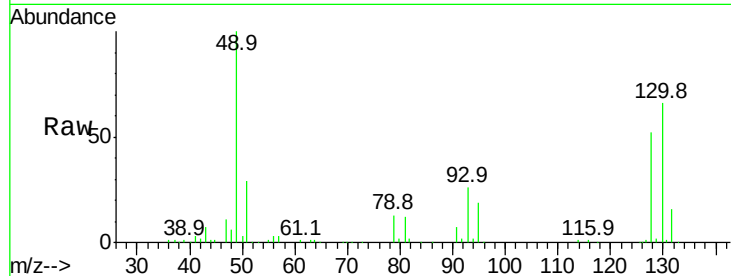
Ion 100.00 (99.70 to 100.70): VL0





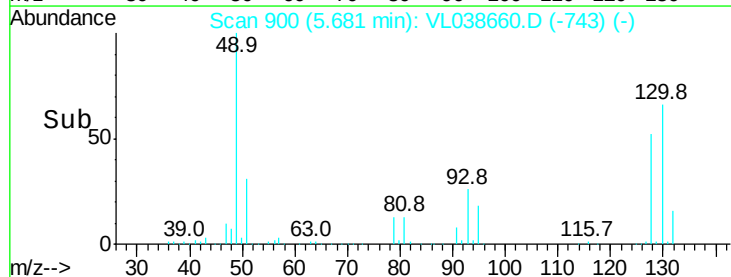
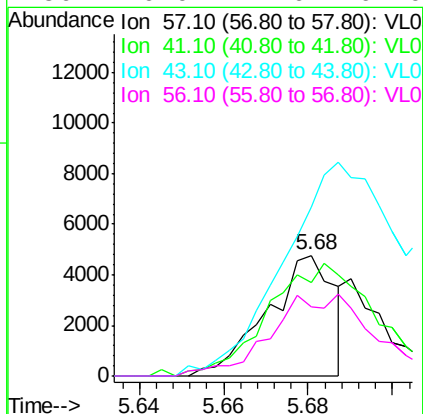
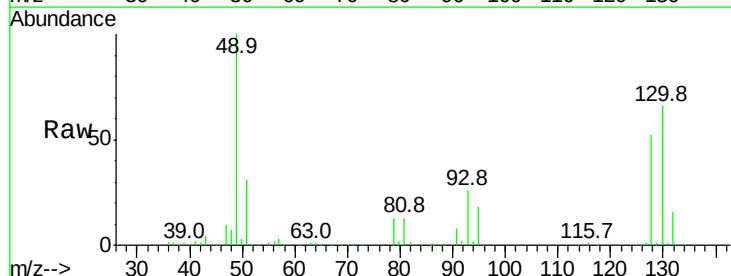
#25
Ethyl Acetate
Concen: 0.07 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 21 Mar 2022 21:20

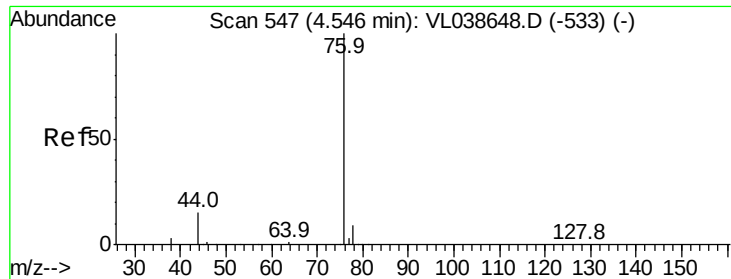
Tgt Ion:	43	Resp:	14642
Ion	Ratio	Lower	Upper
43	100		
45	13.7	8.2	12.4#
61	15.9	8.3	12.5#
70	8.5	5.6	8.4#



#26
Hexane
Concen: 0.06 ppbv
RT: 5.68 min Scan# 900
Delta R.T.: 0.00 min
Lab File: VL038660.D
Acq: 21 Mar 2022 21:26

Tgt Ion:	57	Resp:	5253
Ion	Ratio	Lower	Upper
57	100		
41	0.0	67.0	100.4#
43	0.0	184.2	276.2#
56	0.0	42.6	64.0#





#27

Carbon Disulfide

Concen: 0.06 ppbv

RT: 4.55 Instrument: MSVOA_1

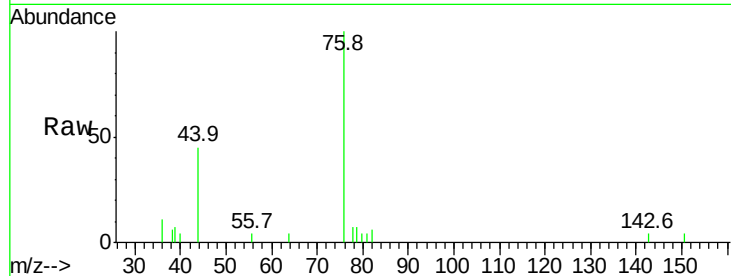
Delta R.T.

Lab File: ClientSampleId:

Acq: 21 Mar 2022 21:20

Tgt Ion: 76 Resp: 5263

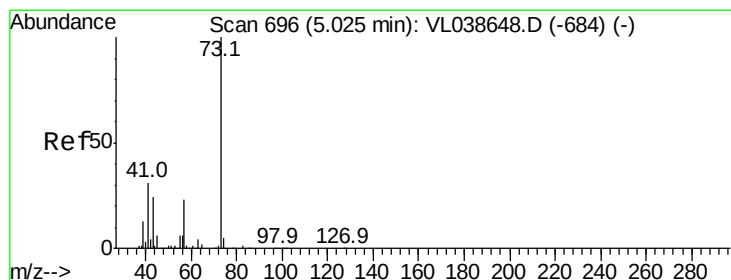
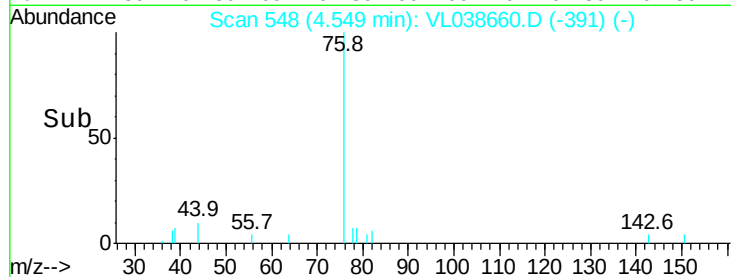
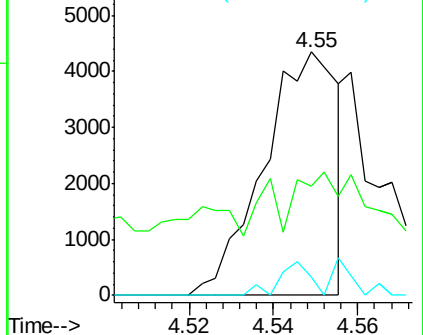
Ion	Ratio	Lower	Upper
76	100		
44	0.0	12.4	18.6#
78	0.0	7.8	11.8#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.06 ppbv

RT: 5.05 min Scan# 704

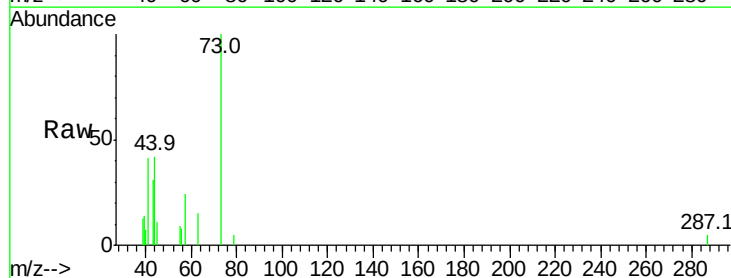
Delta R.T. 0.03 min

Lab File: VL038660.D

Acq: 21 Mar 2022 21:26

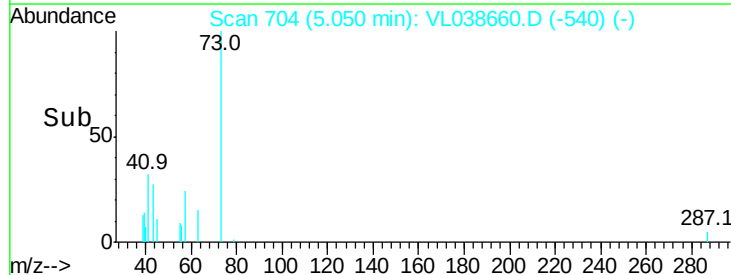
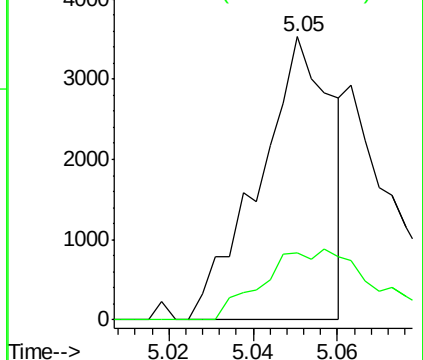
Tgt Ion: 73 Resp: 4243

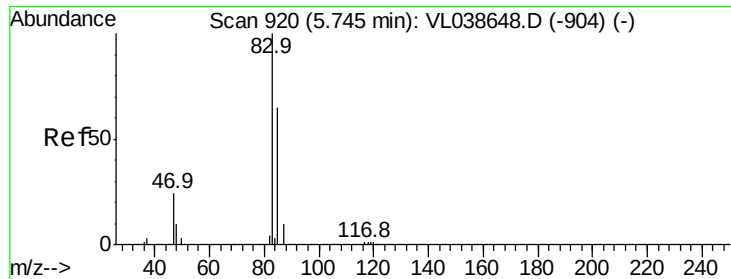
Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.2	28.8#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.11 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

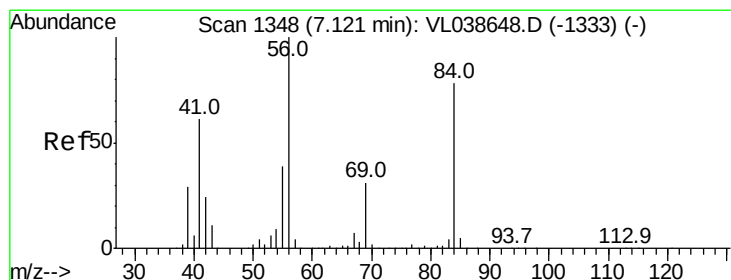
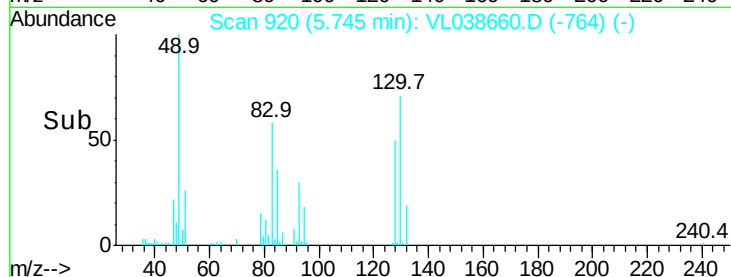
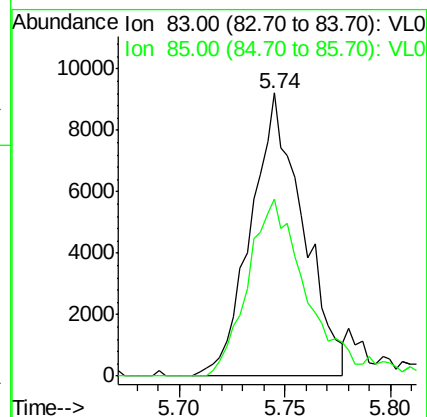
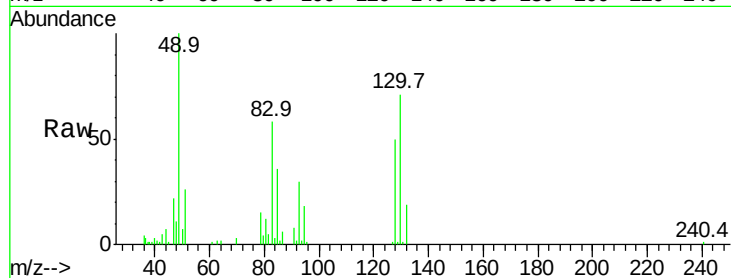
Acq: 21 Mar 2022 21:20

Tgt Ion: 83 Resp: 15762

Ion Ratio Lower Upper

83 100

85 59.8 51.7 77.5



#30

Cyclohexane

Concen: 0.05 ppbv

RT: 7.12 min Scan# 1349

Delta R.T. 0.00 min

Lab File: VL038660.D

Acq: 21 Mar 2022 21:26

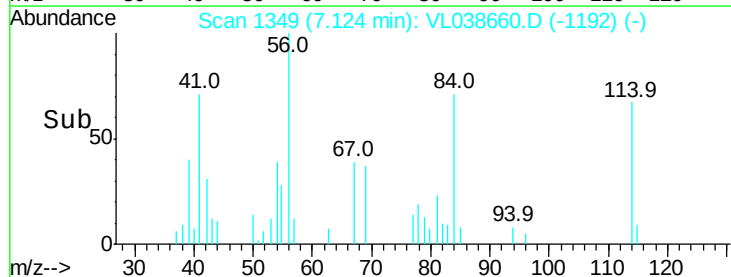
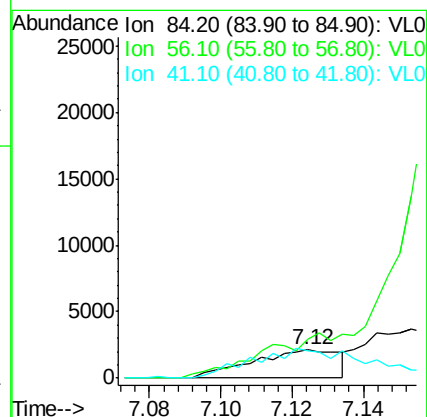
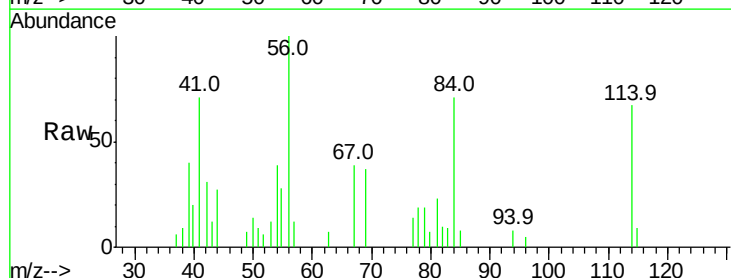
Tgt Ion: 84 Resp: 3590

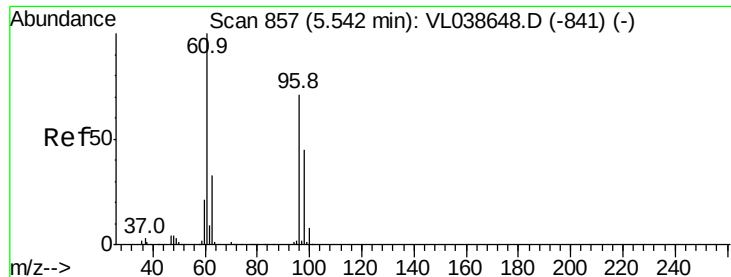
Ion Ratio Lower Upper

84 100

56 0.0 108.2 162.4#

41 157.4 61.8 92.6#





#31

cis-1,2-Dichloroethene

Concen: 0.03 ppbv

RT: 5.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 21:20

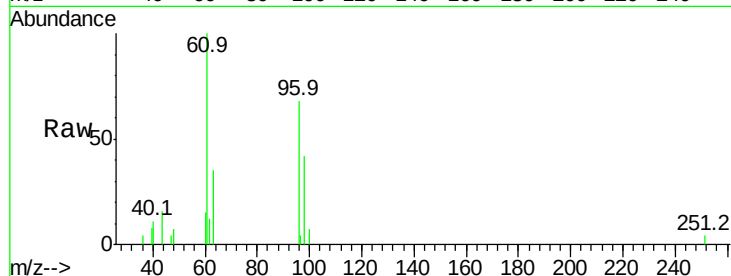
Tgt Ion: 61 Resp: 2890

Ion Ratio Lower Upper

61 100

96 41.3 56.6 84.8#

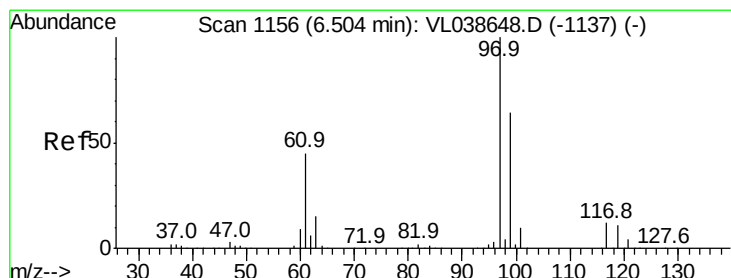
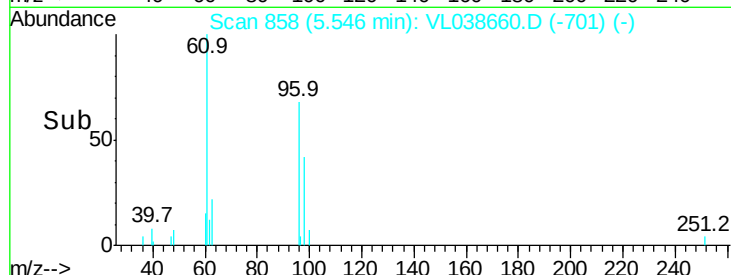
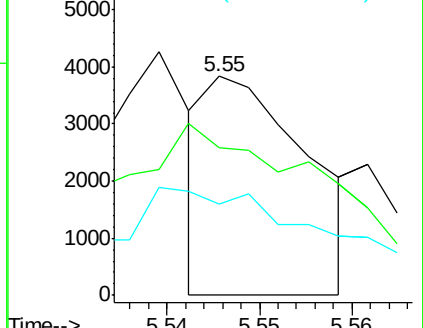
98 28.7 36.3 54.5#



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.04 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VL038660.D

Acq: 21 Mar 2022 21:26

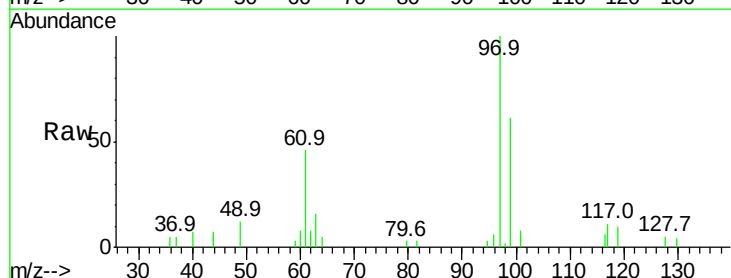
Tgt Ion: 97 Resp: 5902

Ion Ratio Lower Upper

97 100

99 159.4 51.8 77.8#

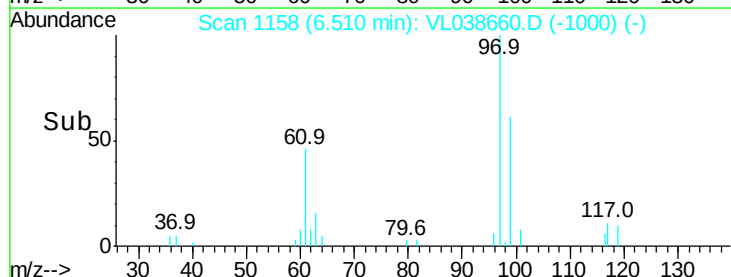
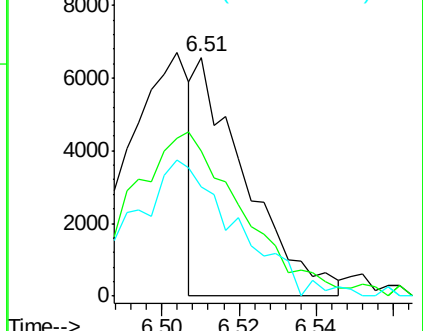
61 0.0 36.7 55.1#

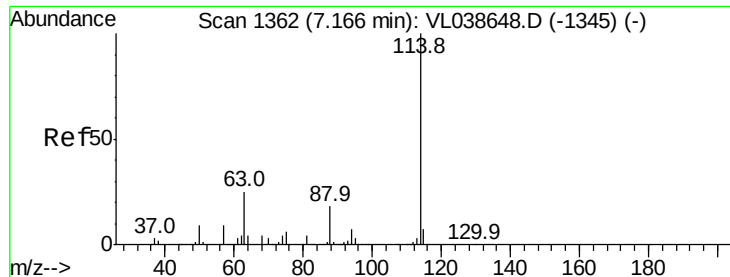


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

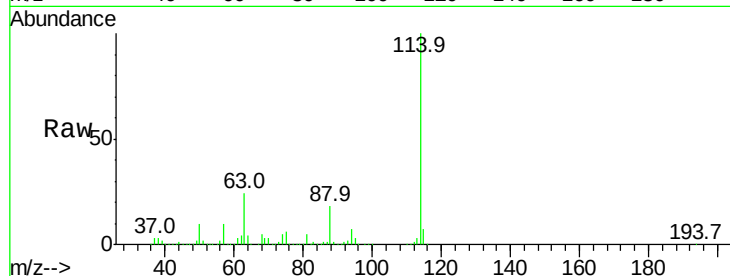
Ion 61.10 (60.80 to 61.80): VL0



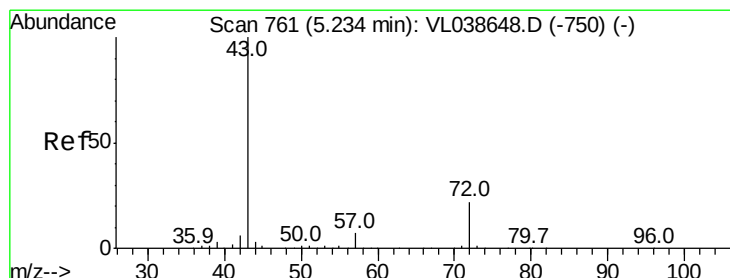
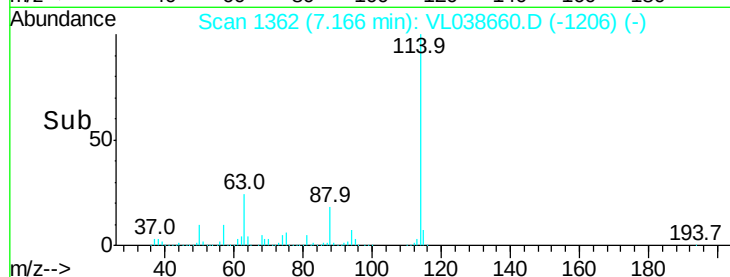
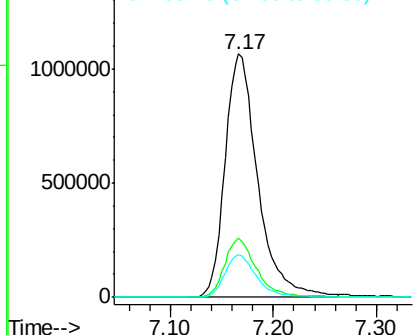


#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.17
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 21 Mar 2022 21:20

Tgt Ion: 114 Resp: 2359429
 Ion Ratio Lower Upper
 114 100
 63 24.1 19.4 29.0
 88 17.3 13.9 20.9

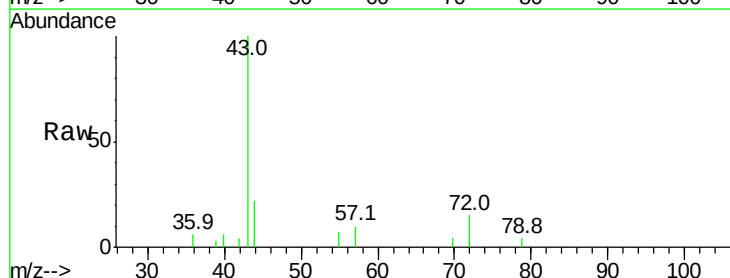


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

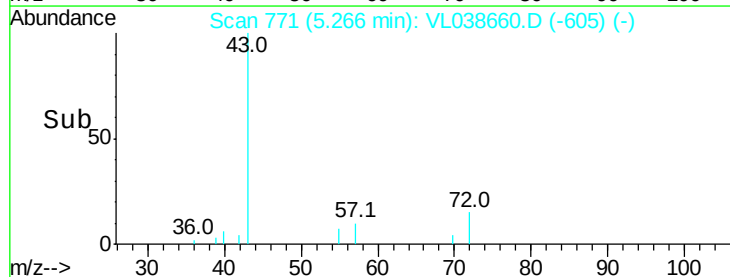
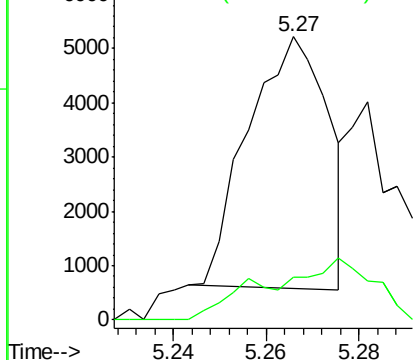


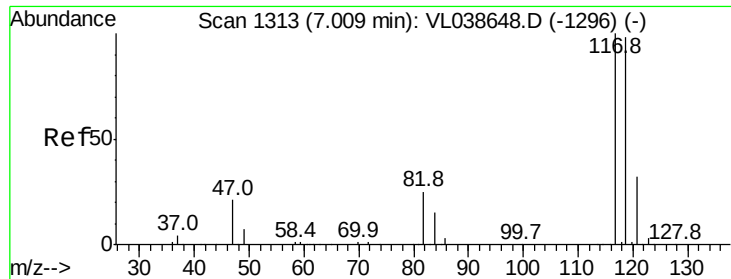
#34
 2-Butanone
 Concen: 0.06 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T.: 0.03 min
 Lab File: VL038660.D
 Acq: 21 Mar 2022 21:26

Tgt Ion: 43 Resp: 5592
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.8 26.8#



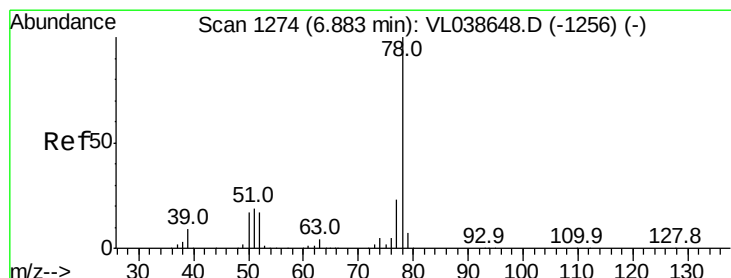
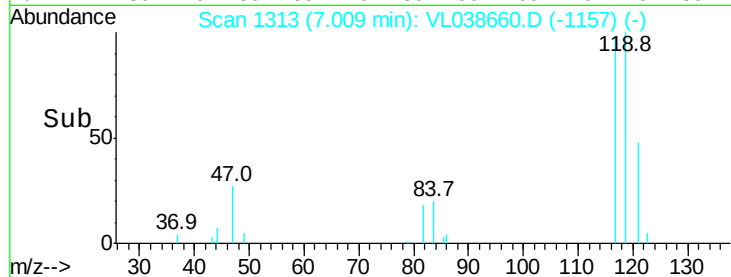
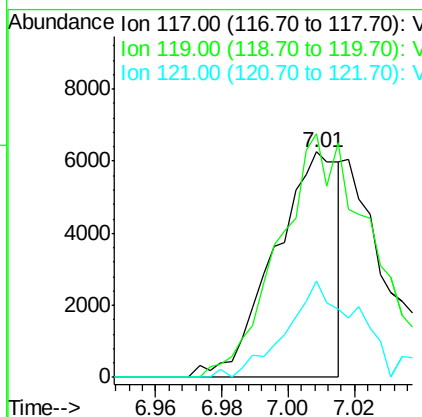
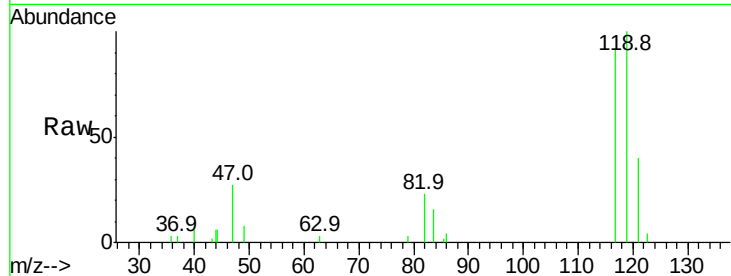
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





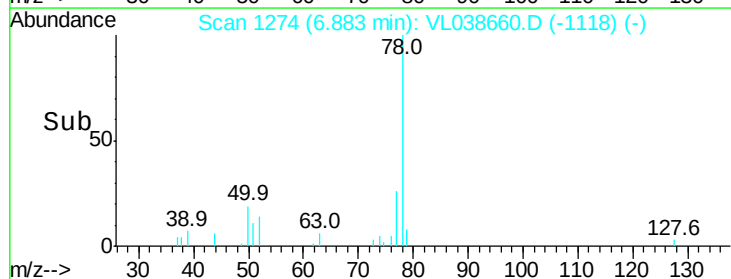
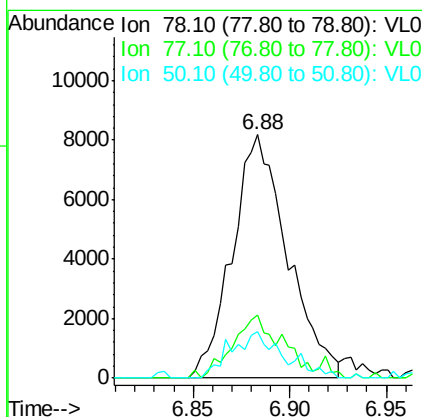
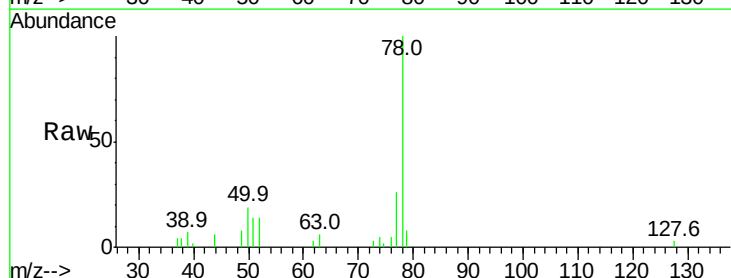
#35
 Carbon Tetrachloride
 Concen: 0.06 ppbv
 RT: 7.01
 Instrument: MSVOA_1
 Delta R.T.:
 ClientSampleId:
 Lab File: LOQ-AIR-02-OT1-2022
 Acq: 21 Mar 2022 21:20

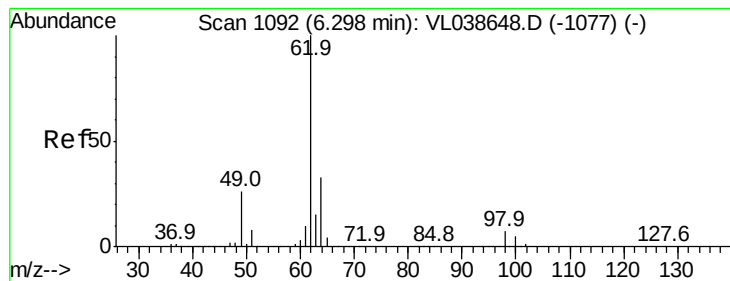
Tgt Ion: 117 Resp: 8420
 Ion Ratio Lower Upper
 117 100
 119 108.1 78.1 117.1
 121 42.9 25.8 38.6#



#36
 Benzene
 Concen: 0.09 ppbv
 RT: 6.88 min Scan# 1274
 Delta R.T.: 0.00 min
 Lab File: VL038660.D
 Acq: 21 Mar 2022 21:26

Tgt Ion: 78 Resp: 16266
 Ion Ratio Lower Upper
 78 100
 77 25.7 18.1 27.1
 50 19.2 13.6 20.4





#37

1,2-Dichloroethane

Concen: 0.08 ppbv

RT: 6.30 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

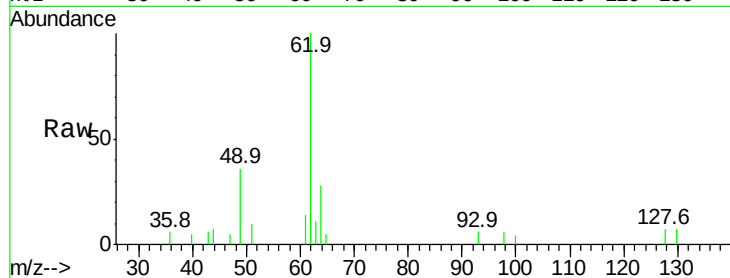
Acq: 21 Mar 2022 21:20

Tgt Ion: 62 Resp: 7481

Ion Ratio Lower Upper

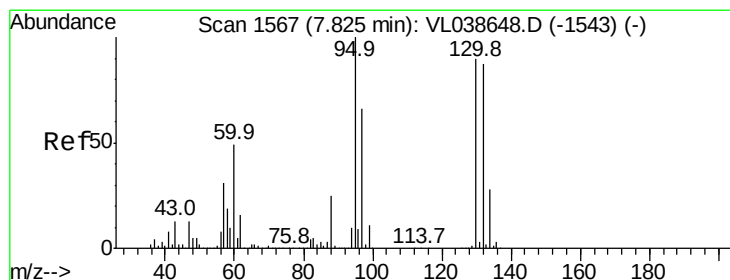
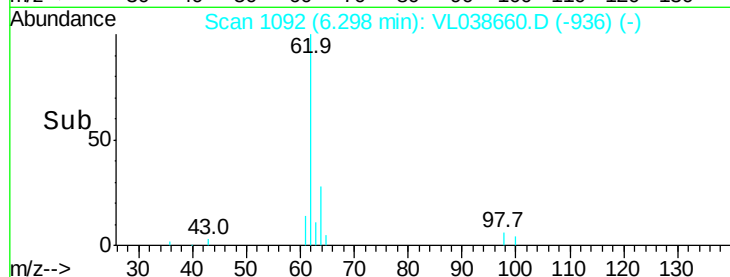
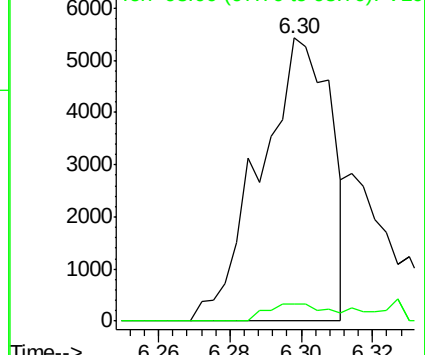
62 100

98 0.0 5.6 8.4#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.07 ppbv

RT: 7.83 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VL038660.D

Acq: 21 Mar 2022 21:26

Tgt Ion:130 Resp: 5035

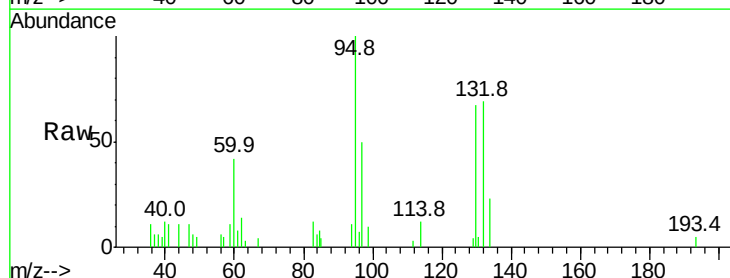
Ion Ratio Lower Upper

130 100

95 122.2 88.9 133.3

132 90.5 77.4 116.0

97 57.9 58.2 87.4#

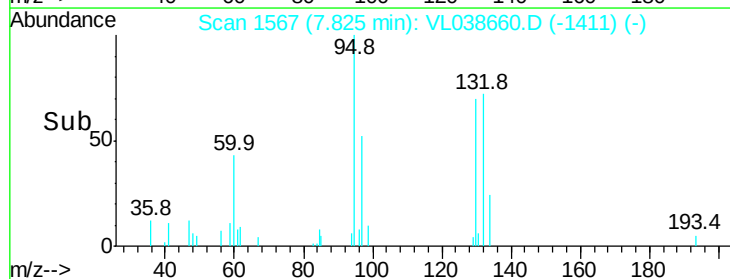
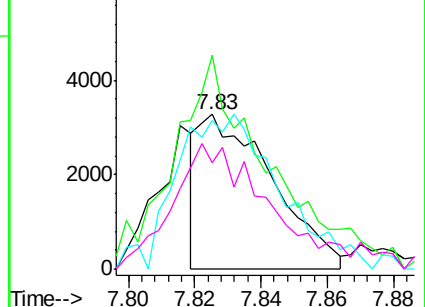


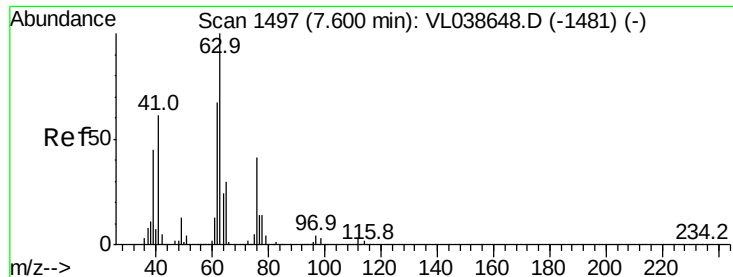
Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.79 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 21:20

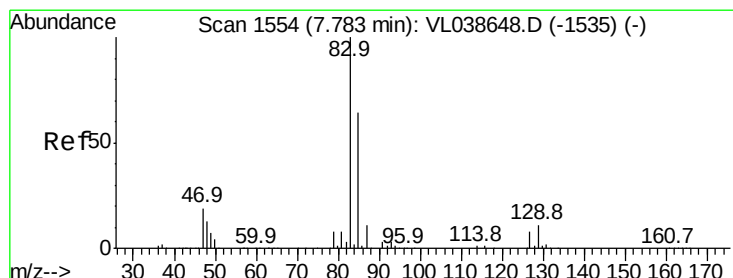
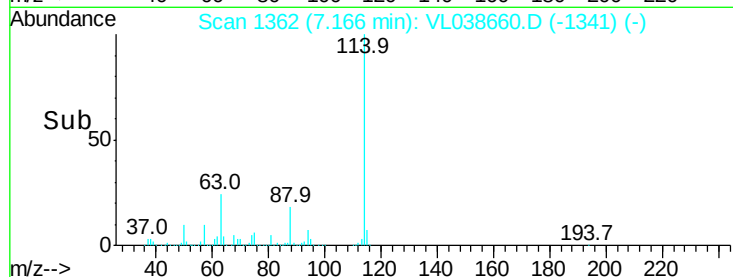
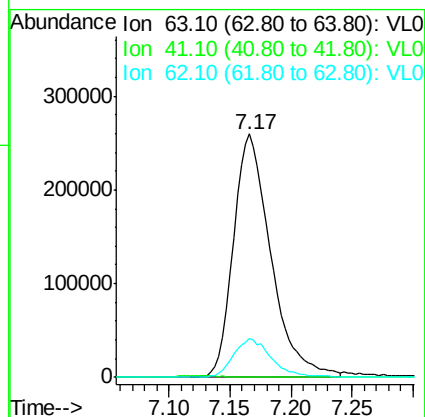
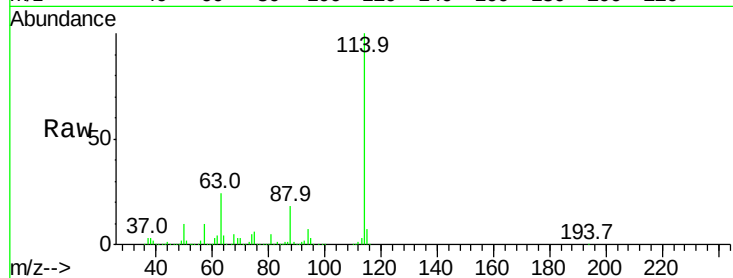
Tgt Ion: 63 Resp: 554365

Ion Ratio Lower Upper

63 100

41 0.1 49.0 73.6#

62 16.1 53.9 80.9#



#42

Bromodichloromethane

Concen: 0.09 ppbv

RT: 7.79 min Scan# 1555

Delta R.T. 0.00 min

Lab File: VL038660.D

Acq: 21 Mar 2022 21:26

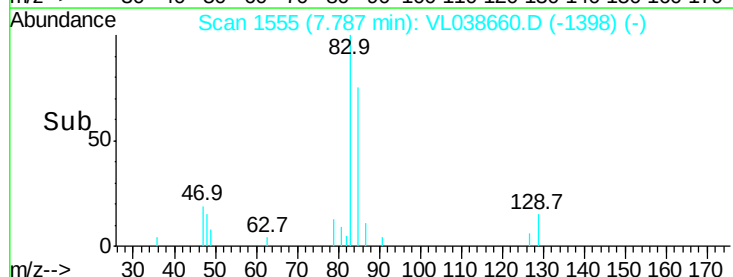
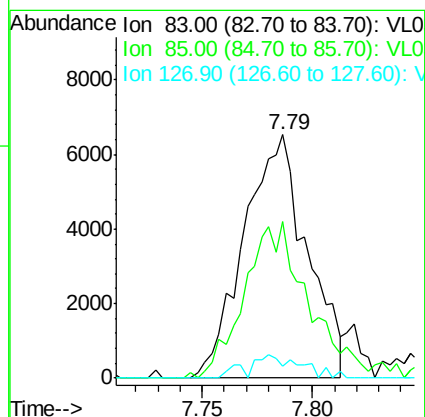
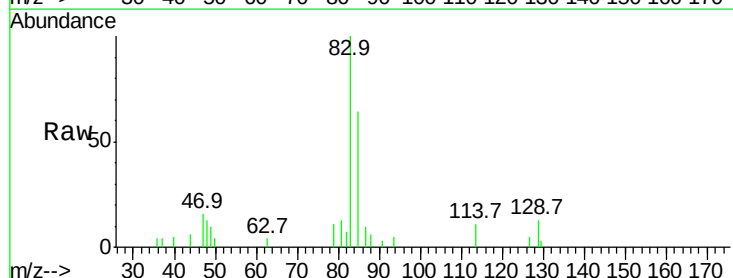
Tgt Ion: 83 Resp: 12978

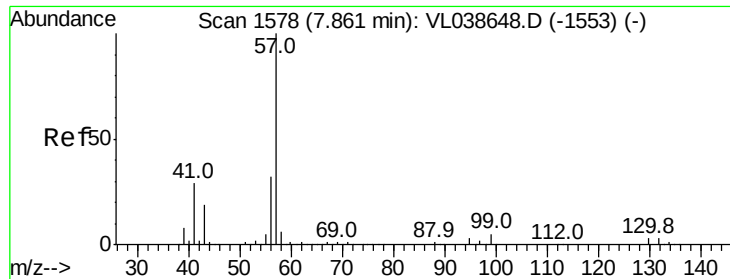
Ion Ratio Lower Upper

83 100

85 62.0 51.1 76.7

127 5.1 6.5 9.7#





#44

2,2,4-Trimethylpentane

Concen: 0.08 ppbv

RT: 7.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 21:20

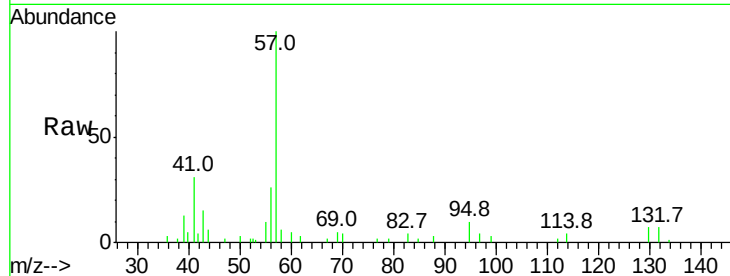
Tgt Ion: 57 Resp: 23845

Ion Ratio Lower Upper

57 100

41 42.9 23.0 34.4#

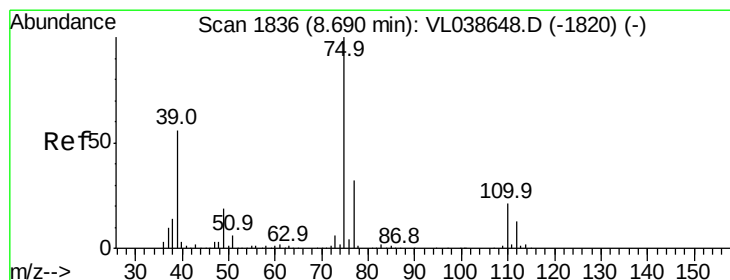
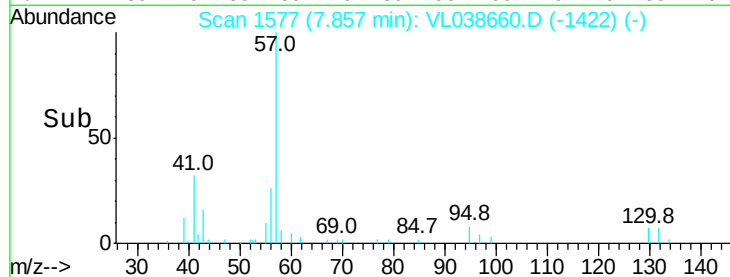
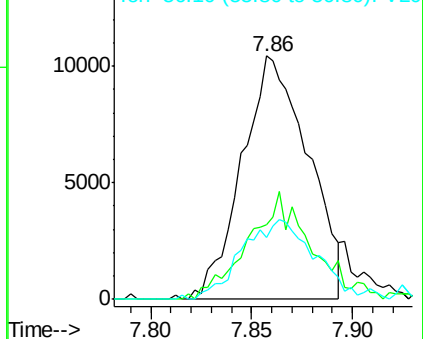
56 38.1 25.3 37.9#



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



#46

cis-1,3-Dichloropropene

Concen: 0.03 ppbv

RT: 8.69 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VL038660.D

Acq: 21 Mar 2022 21:26

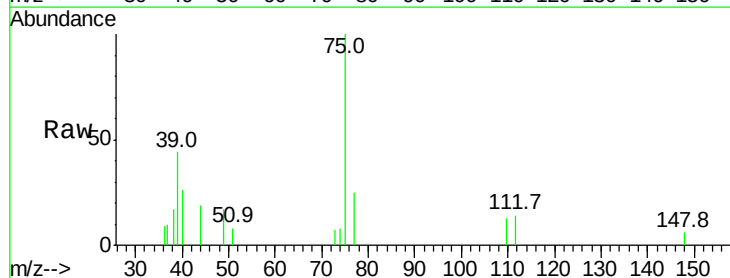
Tgt Ion: 75 Resp: 2338

Ion Ratio Lower Upper

75 100

39 36.0 44.8 67.2#

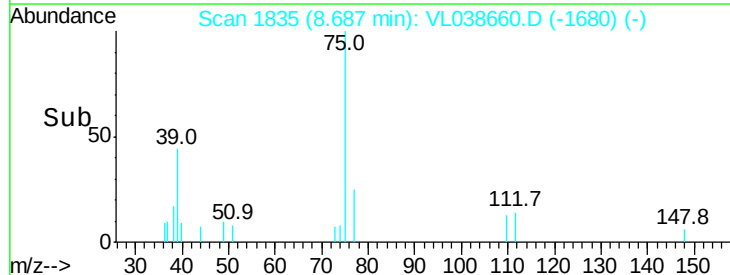
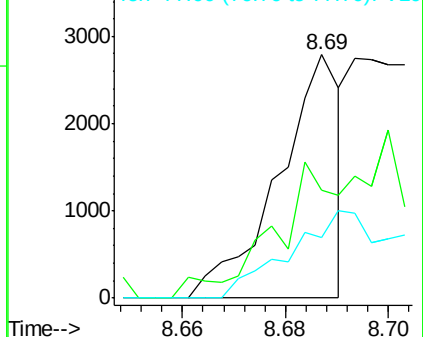
77 24.8 25.4 38.0#

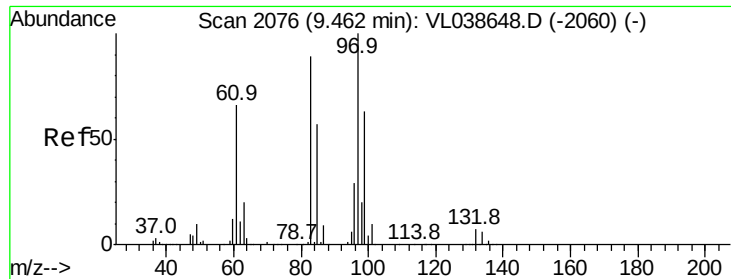


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

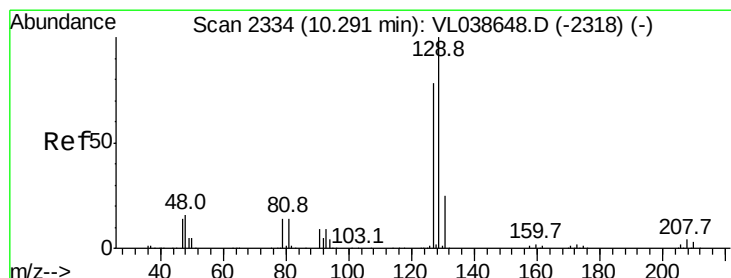
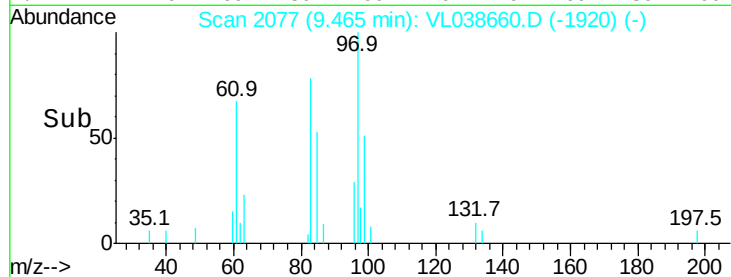
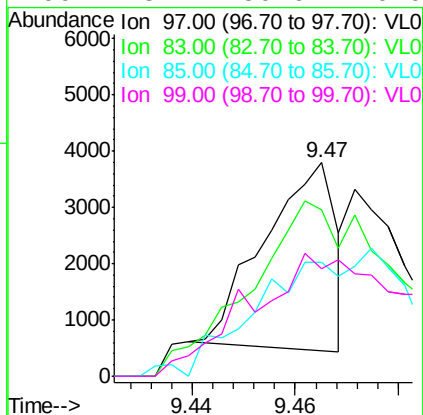
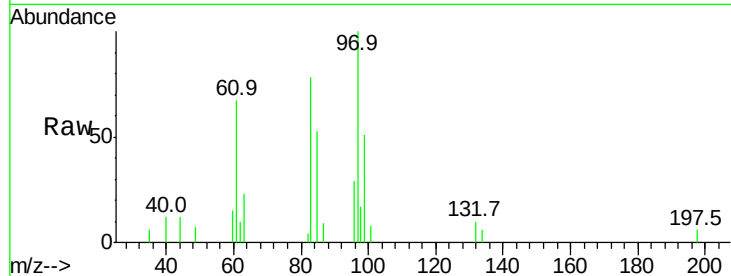
Ion 77.00 (76.70 to 77.70): VL0





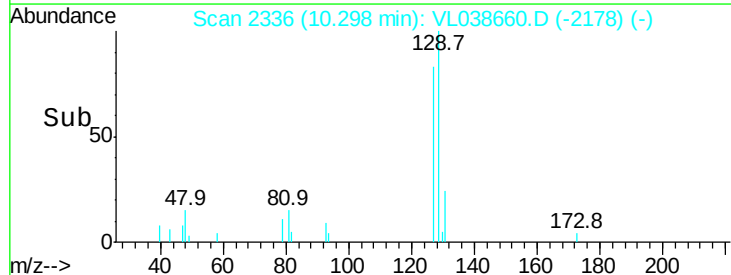
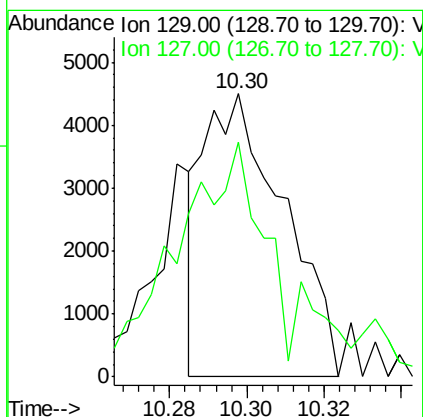
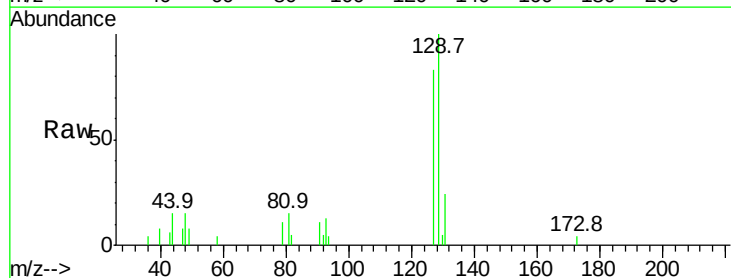
#47
 1,1,2-Trichloroethane
 Concen: 0.04 ppbv
 RT: 9.47
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId:
 Acq: 21 Mar 2022 21:20

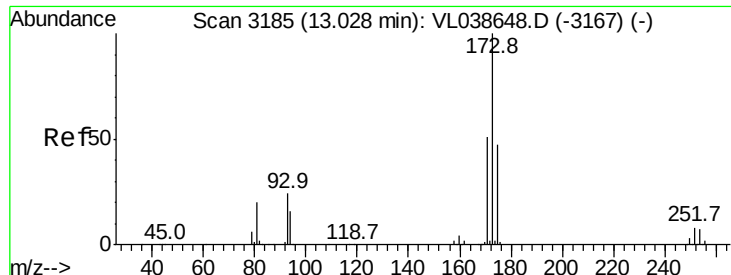
Tgt Ion: 97 Resp: 3187
 Ion Ratio Lower Upper
 97 100
 83 76.8 71.2 106.8
 85 63.8 45.3 67.9
 99 48.7 50.6 76.0#



#48
 Dibromochloromethane
 Concen: 0.05 ppbv
 RT: 10.30 min Scan# 2336
 Delta R.T. 0.01 min
 Lab File: VL038660.D
 Acq: 21 Mar 2022 21:26

Tgt Ion: 129 Resp: 6456
 Ion Ratio Lower Upper
 129 100
 127 113.0 39.5 118.5





#49

Bromoform

Concen: 0.04 ppbv

RT: 13.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 21:20

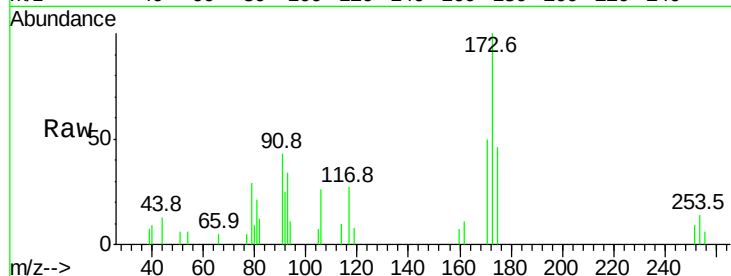
Tgt Ion: 173 Resp: 4214

Ion Ratio Lower Upper

173 100

175 82.3 41.0 61.6#

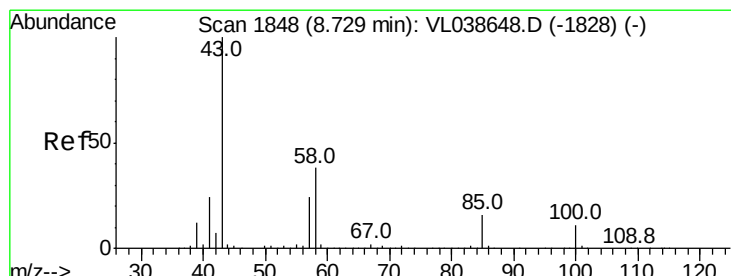
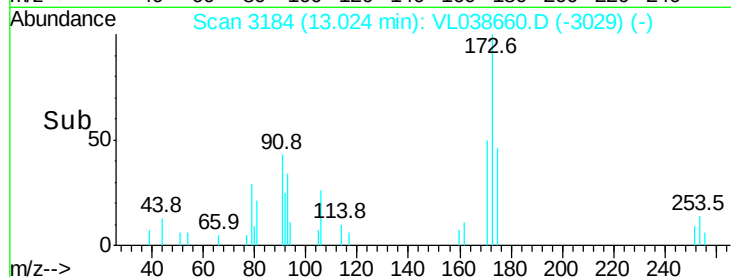
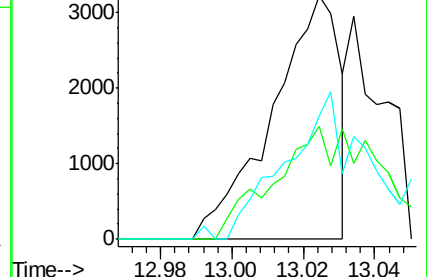
171 89.2 43.1 64.7#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.03 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.04 min

Lab File: VL038660.D

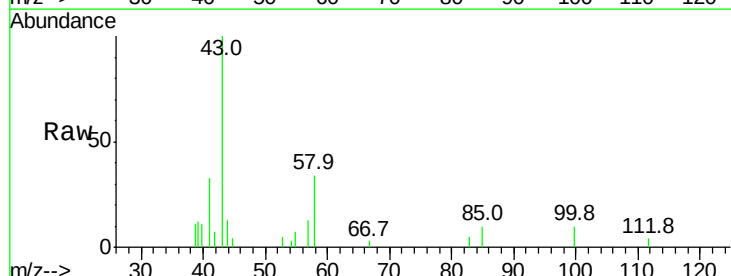
Acq: 21 Mar 2022 21:26

Tgt Ion: 43 Resp: 5596

Ion Ratio Lower Upper

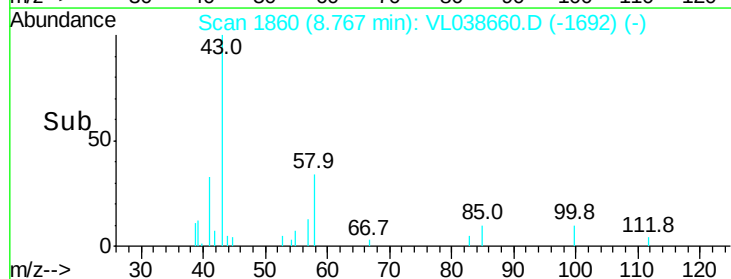
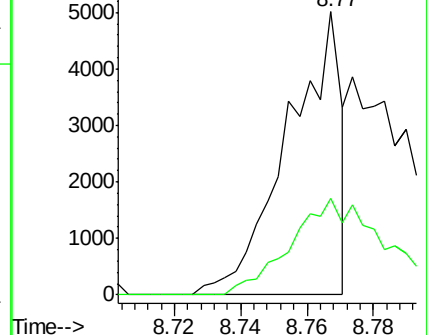
43 100

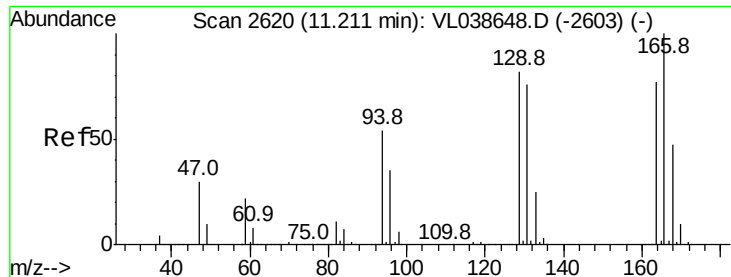
58 61.1 29.9 44.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#52

Tetrachloroethene

Concen: 0.04 ppbv

RT: 11.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 21:20 LOQ-AIR-02-OT1-2022

Tgt Ion: 164 Resp: 2846

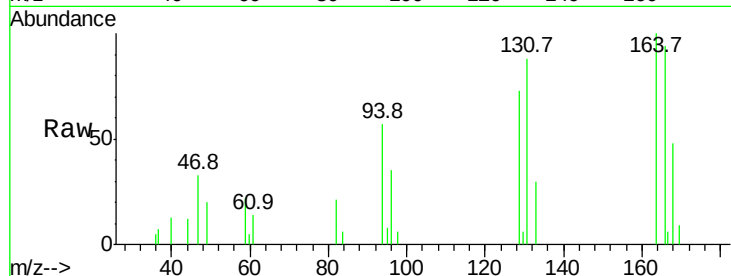
Ion Ratio Lower Upper

164 100

166 6.7 103.3 154.9#

129 29.9 85.2 127.8#

131 55.7 78.3 117.5#

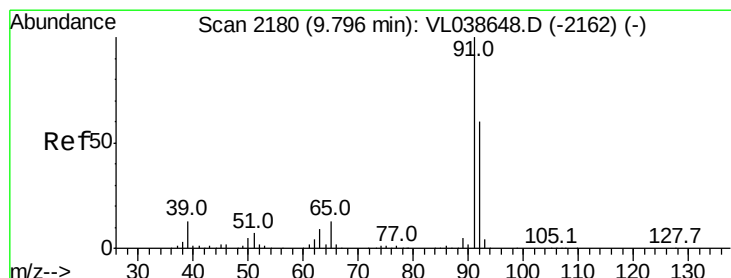
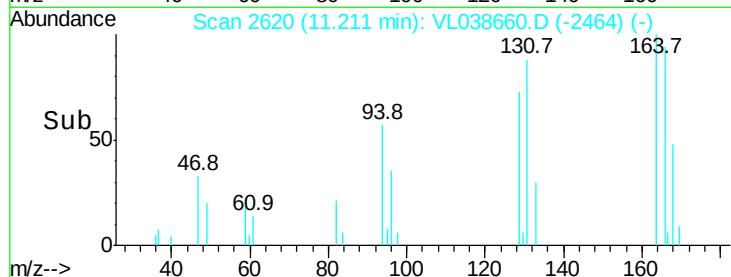
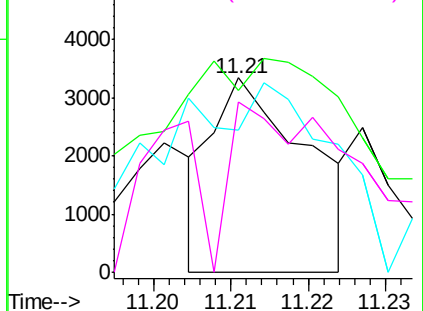


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.07 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL038660.D

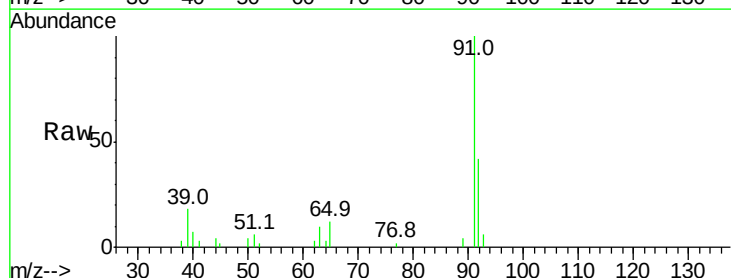
Acq: 21 Mar 2022 21:26

Tgt Ion: 91 Resp: 13811

Ion Ratio Lower Upper

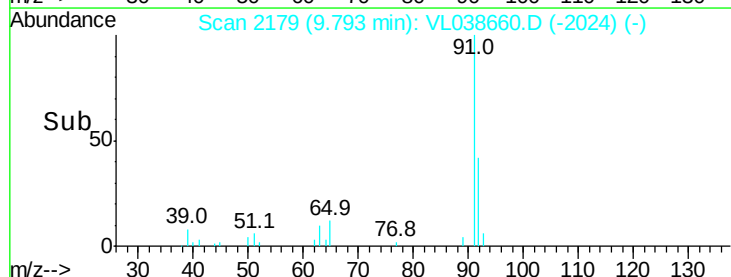
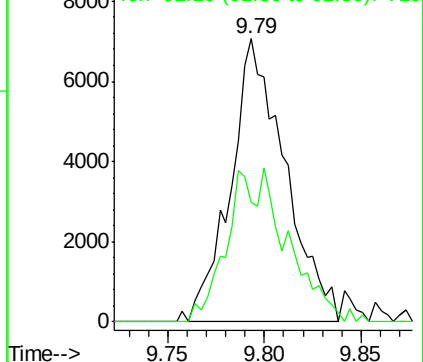
91 100

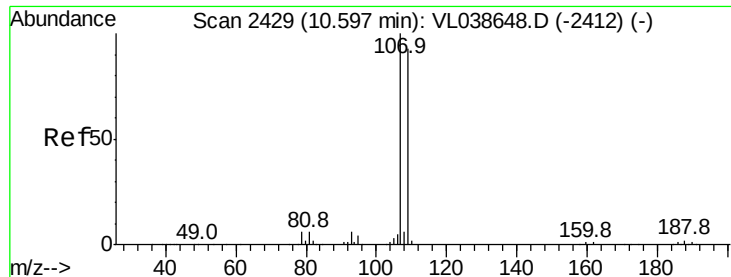
92 59.5 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

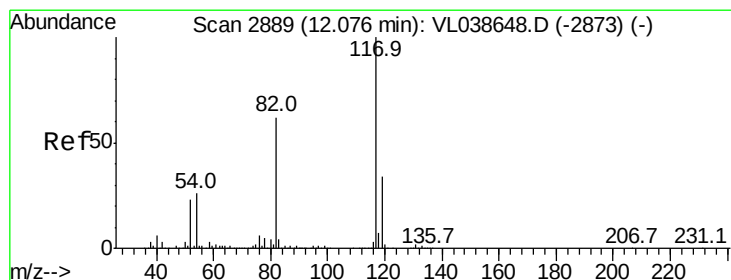
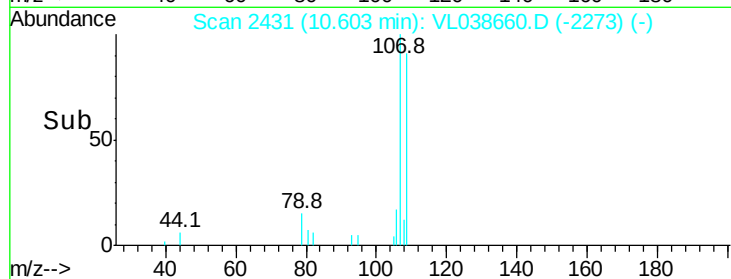
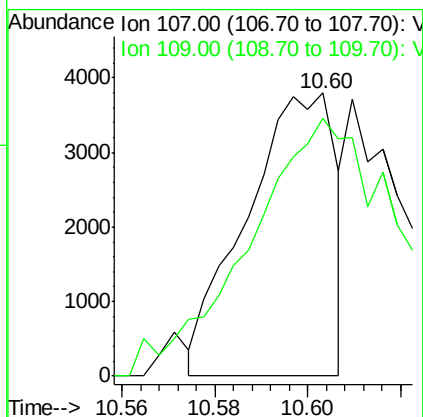
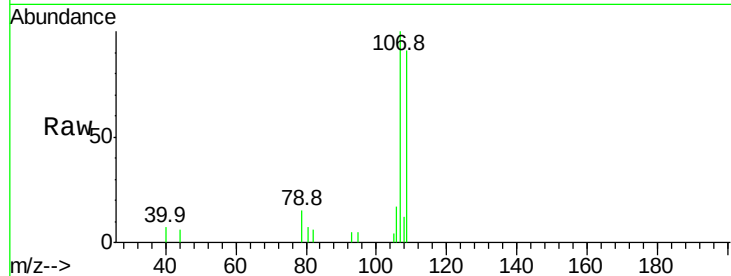
Ion 92.10 (91.80 to 92.80): VL0





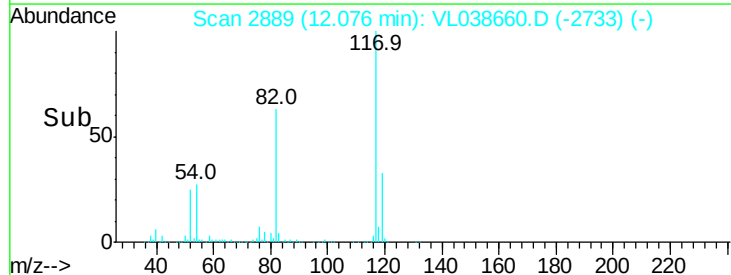
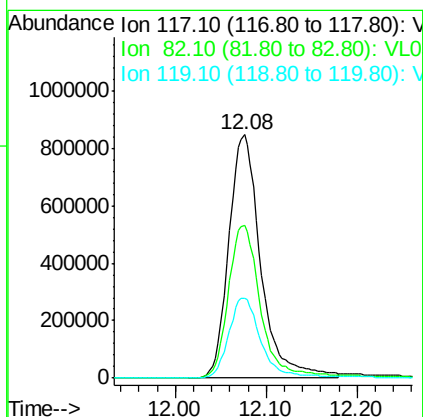
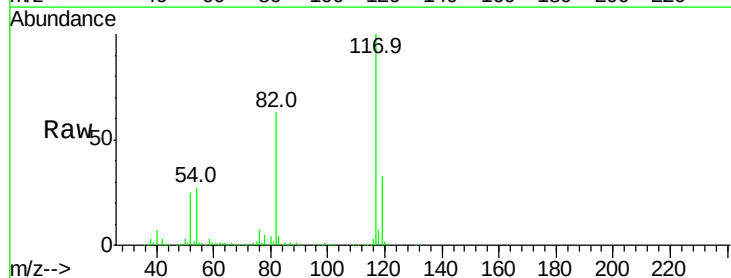
#54
 1,2-Dibromoethane
 Concen: 0.05 ppbv
 RT: 10.60
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 21 Mar 2022 21:20

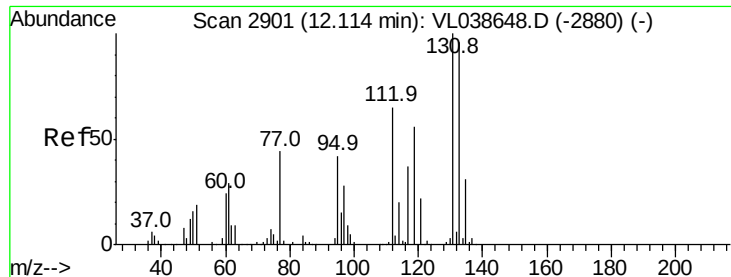
Tgt Ion:107 Resp: 5092
 Ion Ratio Lower Upper
 107 100
 109 78.2 74.1 111.1



#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.08 min Scan# 2889
 Delta R.T. 0.00 min
 Lab File: VL038660.D
 Acq: 21 Mar 2022 21:26

Tgt Ion:117 Resp: 2074922
 Ion Ratio Lower Upper
 117 100
 82 64.8 51.6 77.4
 119 34.3 26.9 40.3





#56

1,1,1,2-Tetrachloroethane

Concen: 0.08 ppbv

RT: 12.11 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 21:20

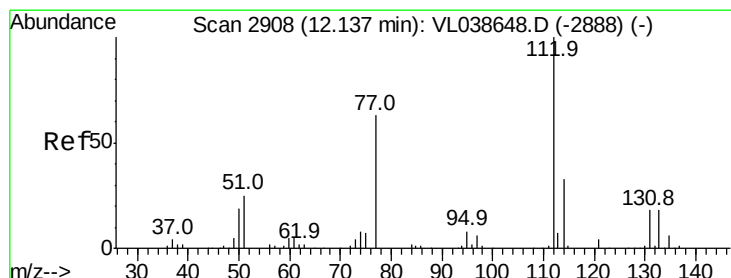
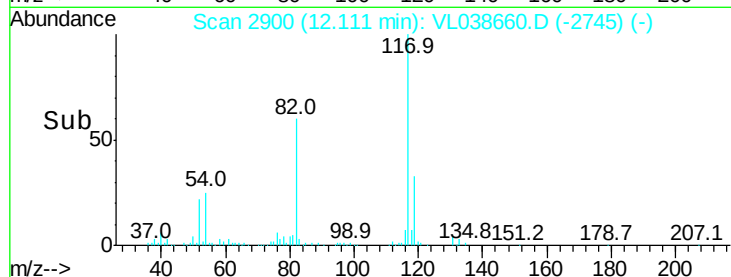
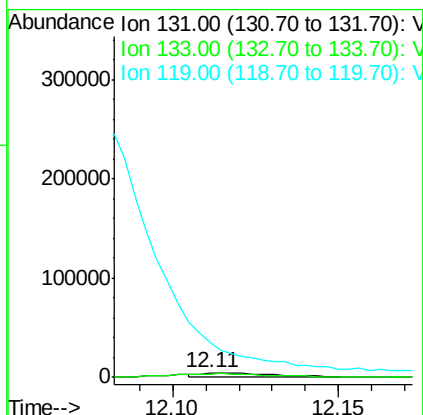
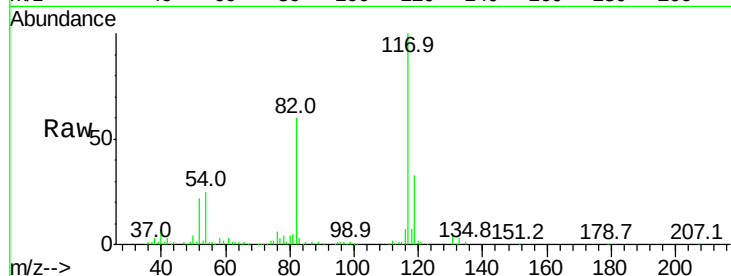
Tgt Ion:131 Resp: 6968

Ion Ratio Lower Upper

131 100

133 122.8 77.3 115.9#

119 0.0 53.0 79.6#



#57

Chlorobenzene

Concen: 0.12 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VL038660.D

Acq: 21 Mar 2022 21:26

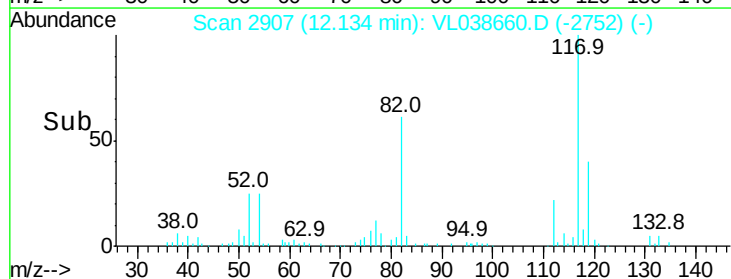
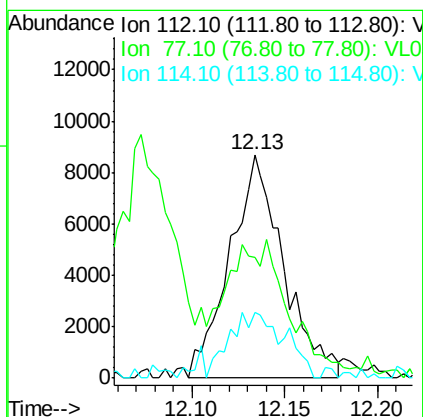
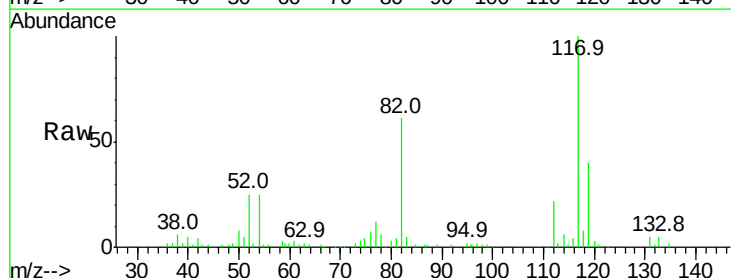
Tgt Ion:112 Resp: 17556

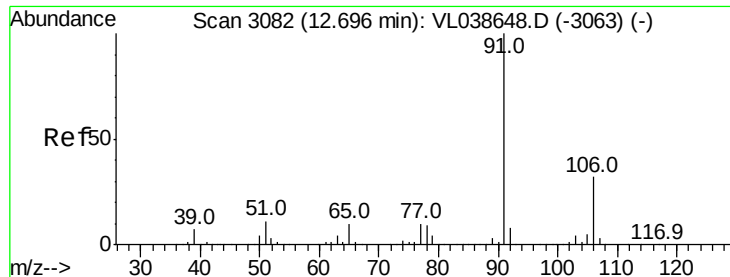
Ion Ratio Lower Upper

112 100

77 43.8 51.0 76.6#

114 30.0 29.8 36.4





#58

Ethyl Benzene

Concen: 0.04 ppbv

RT: 12.70

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

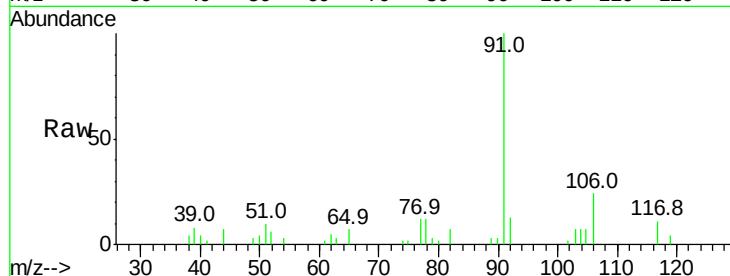
Acq: 21 Mar 2022 21:20

Tgt Ion: 91 Resp: 8552

Ion Ratio Lower Upper

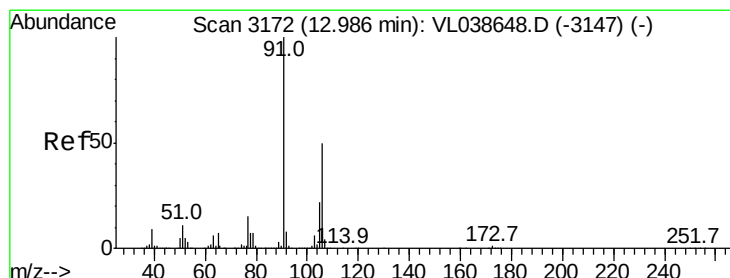
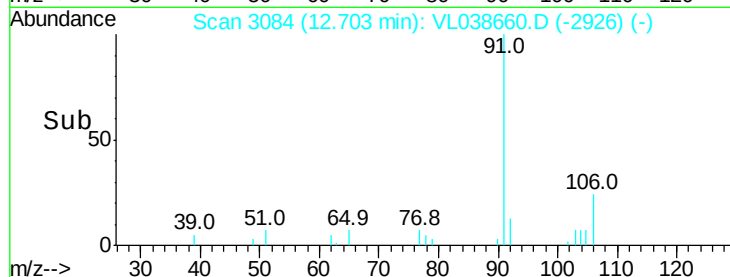
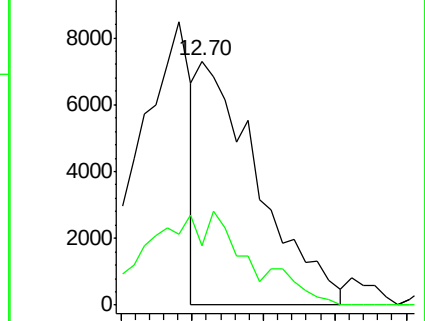
91 100

106 25.8 25.4 38.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.02 ppbv

RT: 12.99 min Scan# 3172

Delta R.T. 0.00 min

Lab File: VL038660.D

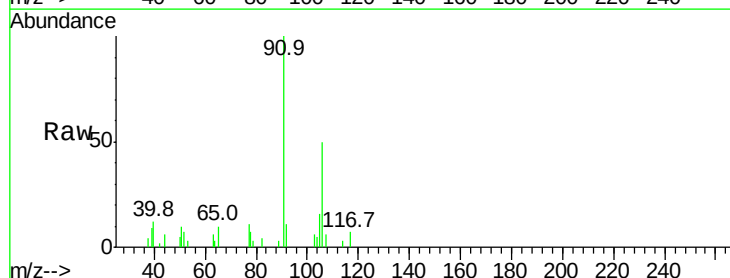
Acq: 21 Mar 2022 21:26

Tgt Ion: 91 Resp: 4470

Ion Ratio Lower Upper

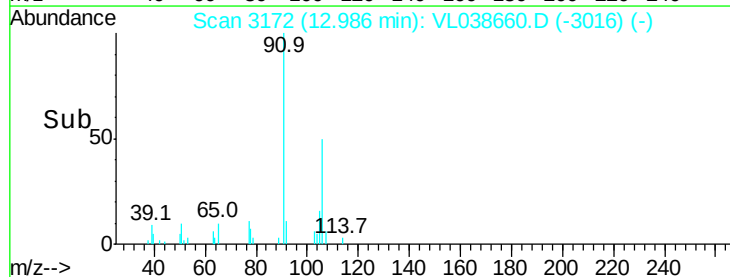
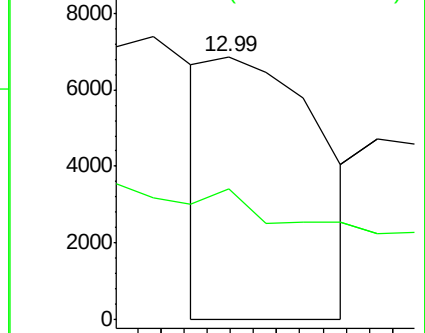
91 100

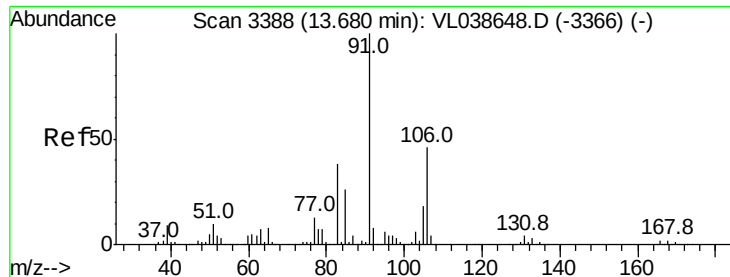
106 0.0 37.2 55.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

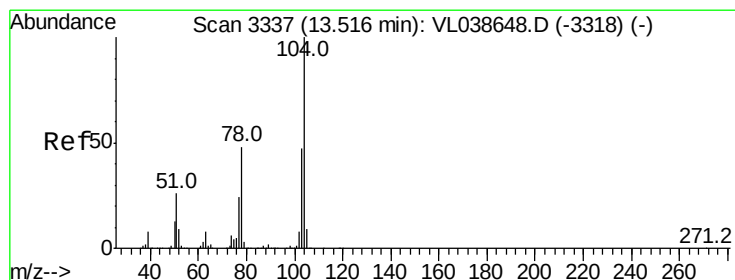
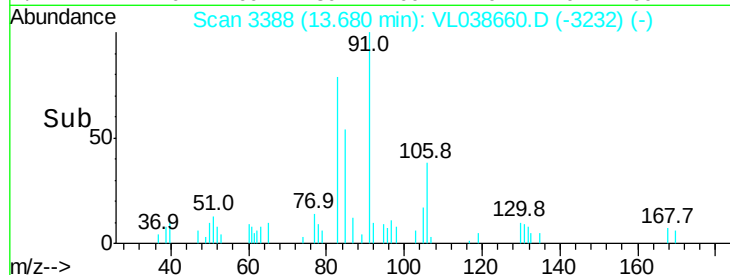
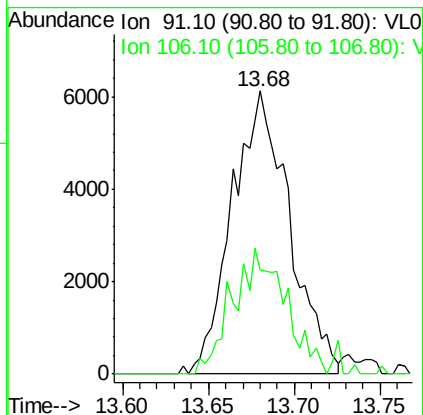
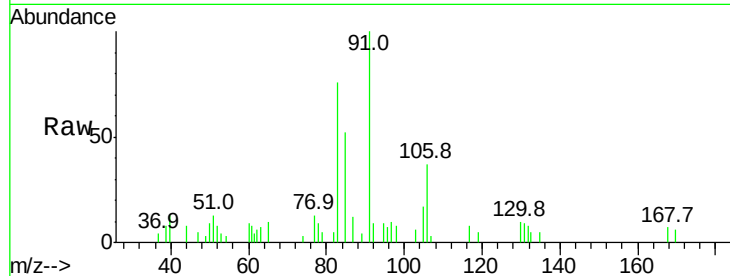
Ion 106.10 (105.80 to 106.80): V





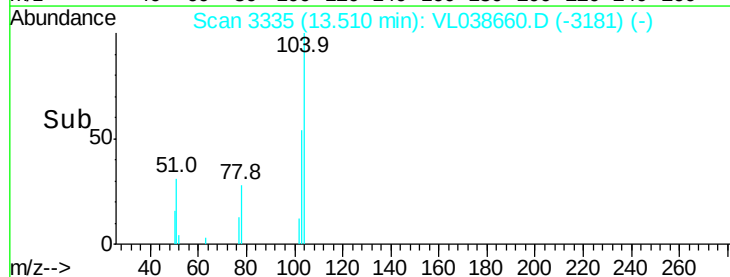
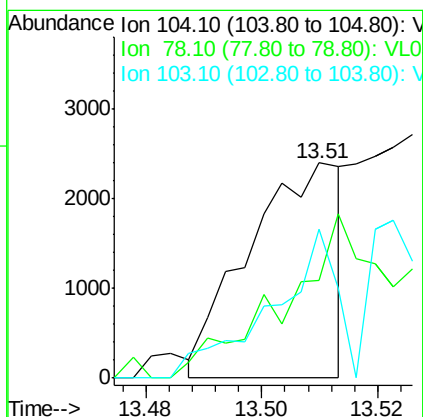
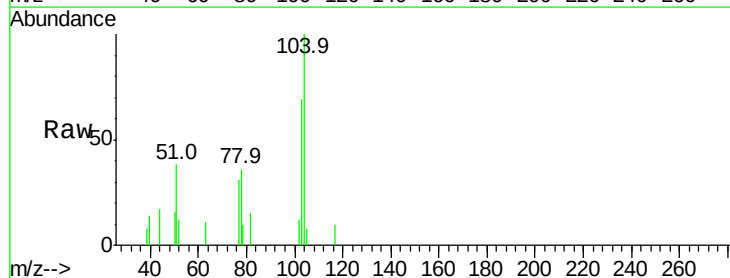
#60
o-Xylene
Concen: 0.07 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 21 Mar 2022 21:20

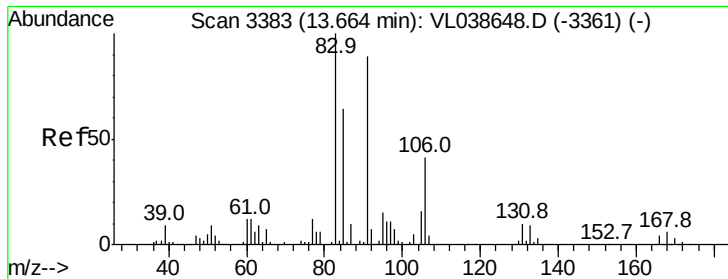
Tgt Ion: 91 Resp: 14185
Ion Ratio Lower Upper
91 100
106 42.3 23.5 70.5



#61
Styrene
Concen: 0.02 ppbv
RT: 13.51 min Scan# 3335
Delta R.T. -0.01 min
Lab File: VL038660.D
Acq: 21 Mar 2022 21:26

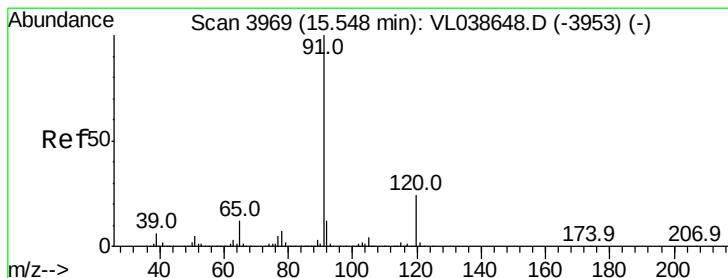
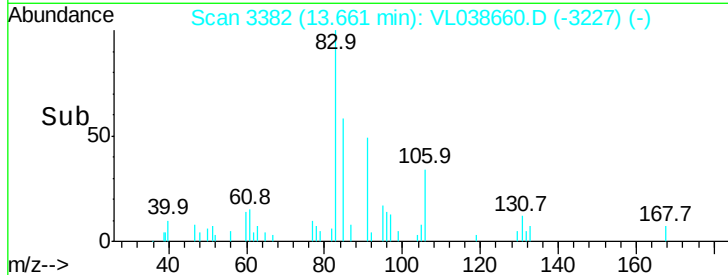
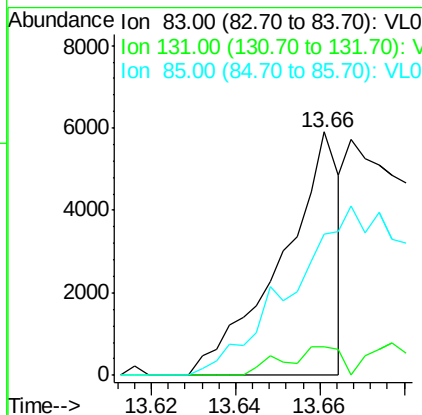
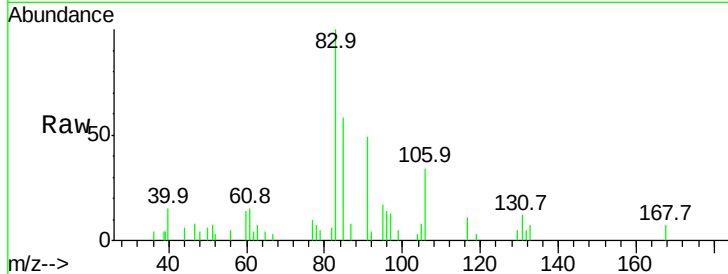
Tgt Ion: 104 Resp: 2683
Ion Ratio Lower Upper
104 100
78 108.6 39.0 58.4#
103 48.0 37.8 56.8





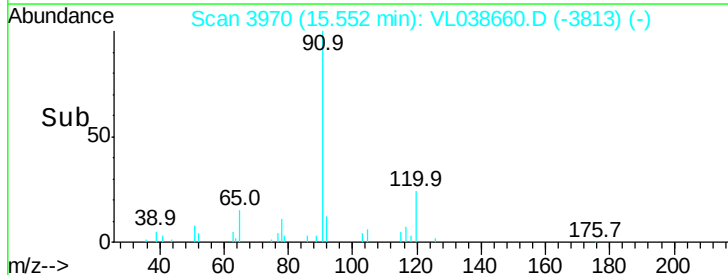
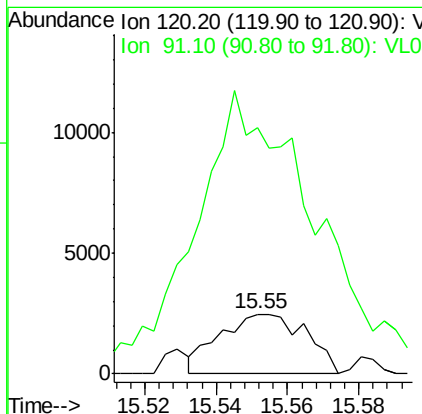
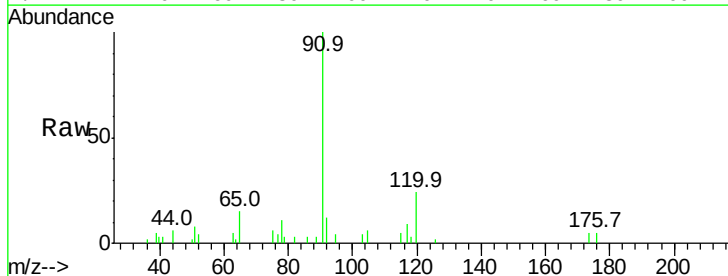
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.04 ppbv
 RT: 13.66 min
 Delta R.T. 0.00 min
 Lab File: VL038660.D
 Acq: 21 Mar 2022 21:20

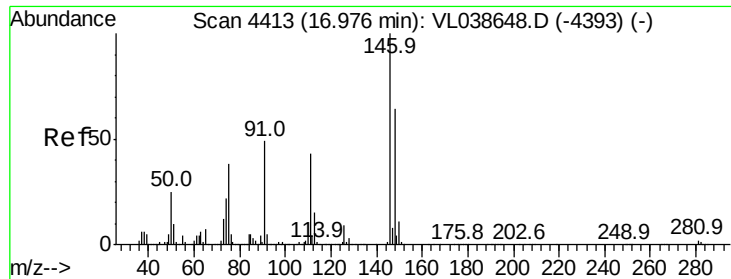
Tgt Ion: 83 Resp: 5649
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.8 14.3#
 85 0.0 32.6 97.8#



#64
 n-propylbenzene
 Concen: 0.05 ppbv
 RT: 15.55 min Scan# 3970
 Delta R.T. 0.00 min
 Lab File: VL038660.D
 Acq: 21 Mar 2022 21:26

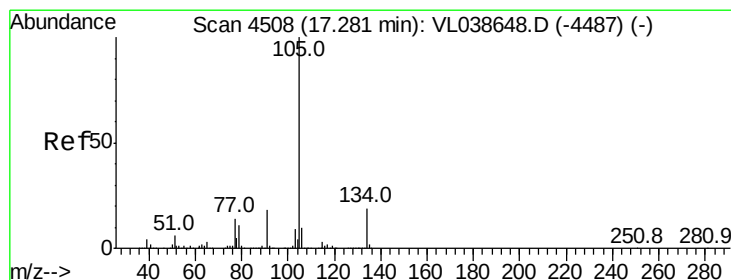
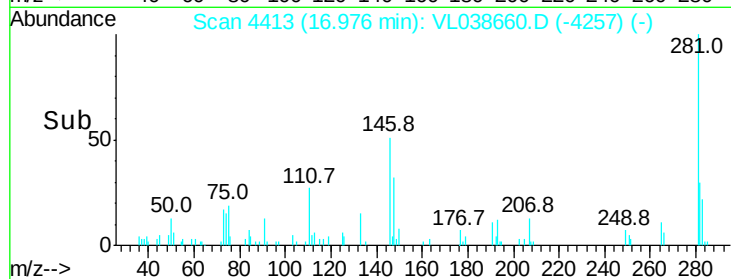
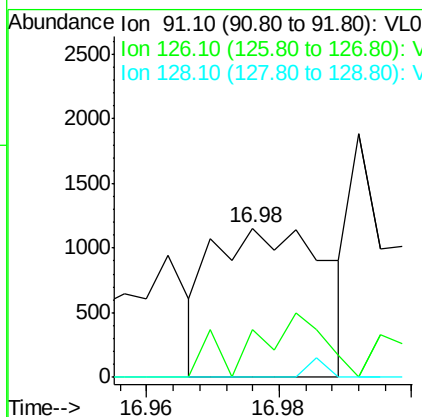
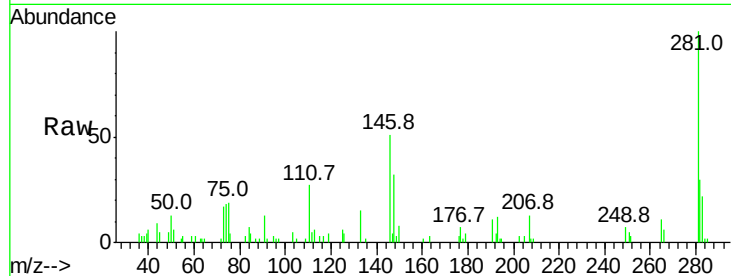
Tgt Ion: 120 Resp: 4144
 Ion Ratio Lower Upper
 120 100
 91 746.9 368.0 552.0#





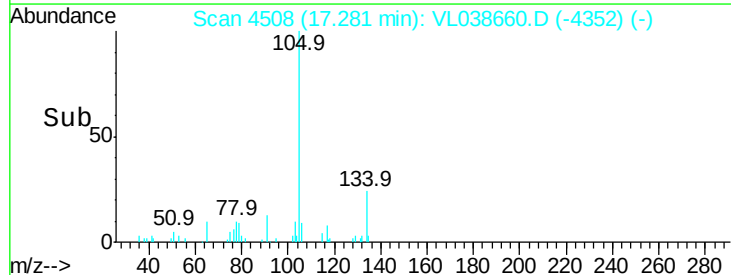
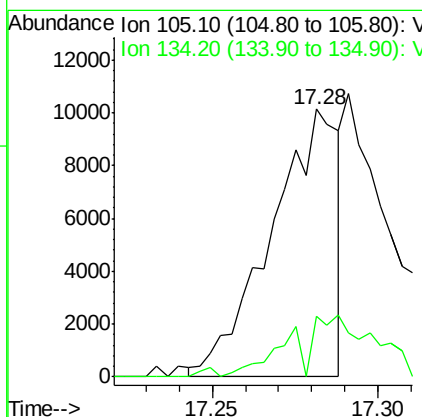
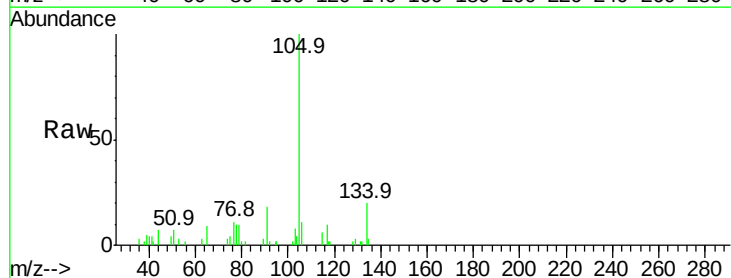
#66
Benzyl Chloride
Concen: 0.03 ppbv
RT: 16.98 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 21 Mar 2022 21:20

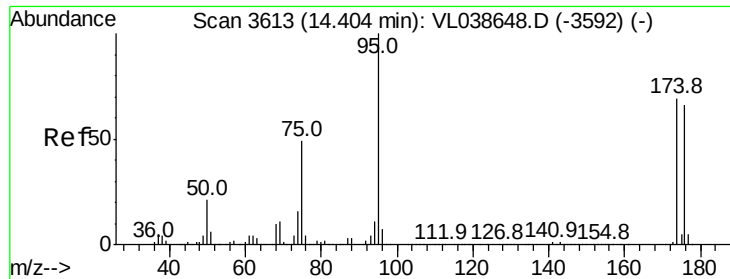
Tgt Ion: 91 Resp: 1362
Ion Ratio Lower Upper
91 100
126 0.0 14.3 21.5#
128 0.0 4.6 6.8#



#67
sec-Butylbenzene
Concen: 0.04 ppbv
RT: 17.28 min Scan# 4508
Delta R.T. 0.00 min
Lab File: VL038660.D
Acq: 21 Mar 2022 21:26

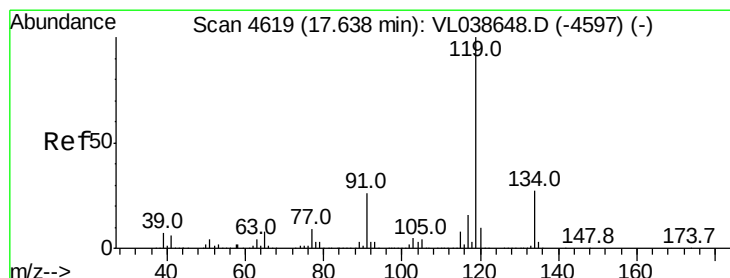
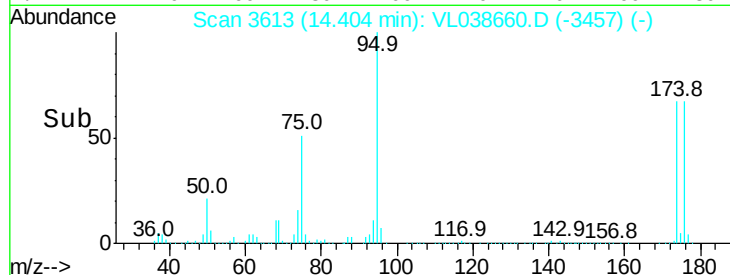
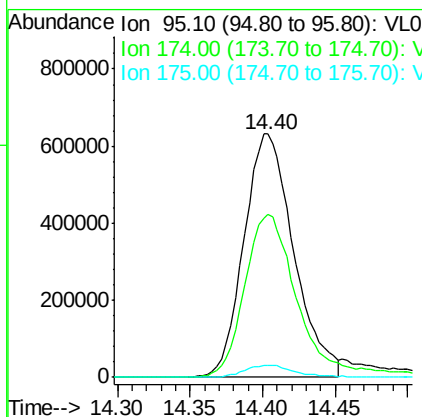
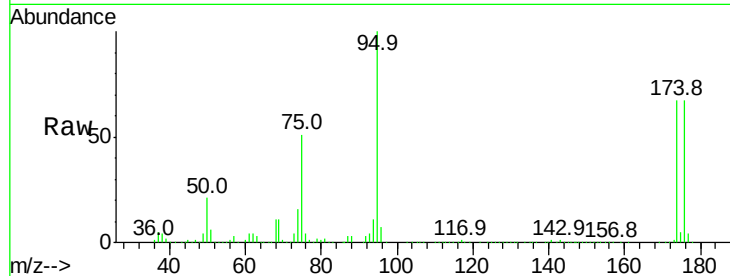
Tgt Ion: 105 Resp: 14285
Ion Ratio Lower Upper
105 100
134 0.0 15.1 22.7#





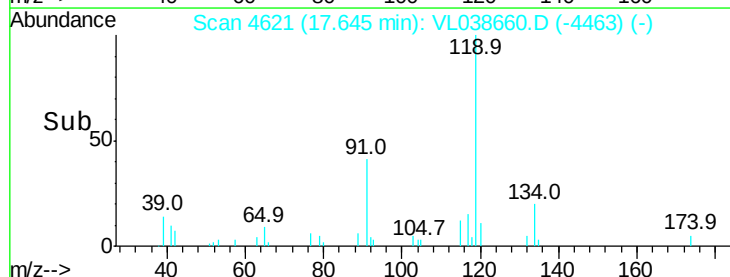
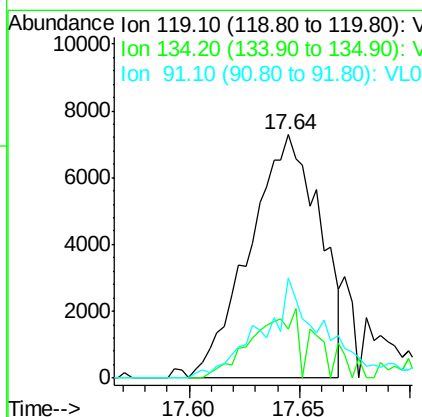
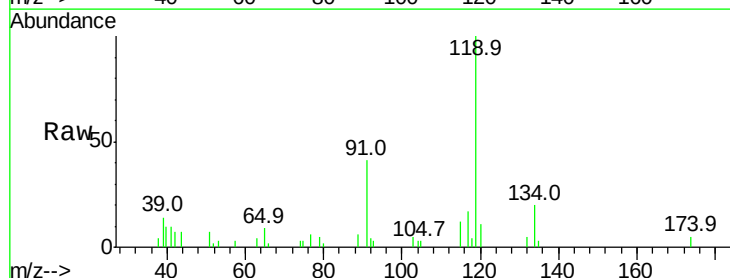
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.49 ppbv
 RT: 14.40 min
 Delta R.T. 0.01 min
 Lab File: VL038660.D
 Acq: 21 Mar 2022 21:20

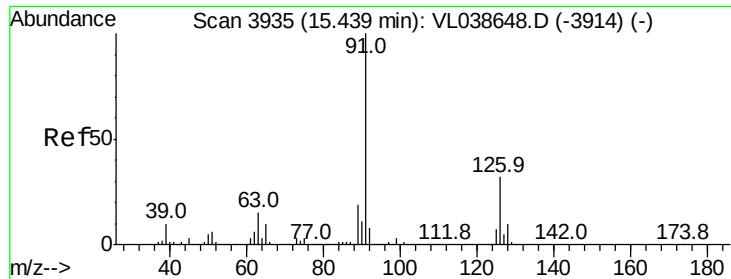
Tgt Ion: 95 Resp: 1509798
 Ion Ratio Lower Upper
 95 100
 174 74.7 56.1 84.1
 175 5.1 4.2 6.2



#69
 p-Isopropyltoluene
 Concen: 0.05 ppbv
 RT: 17.64 min Scan# 4621
 Delta R.T. 0.01 min
 Lab File: VL038660.D
 Acq: 21 Mar 2022 21:26

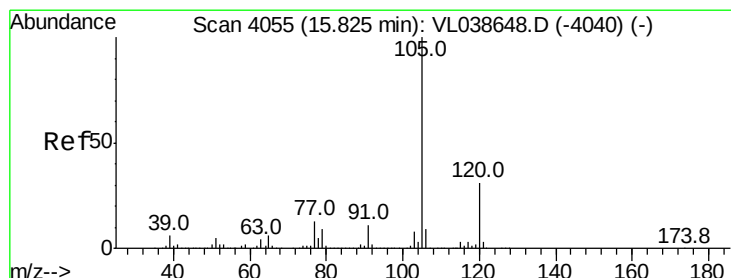
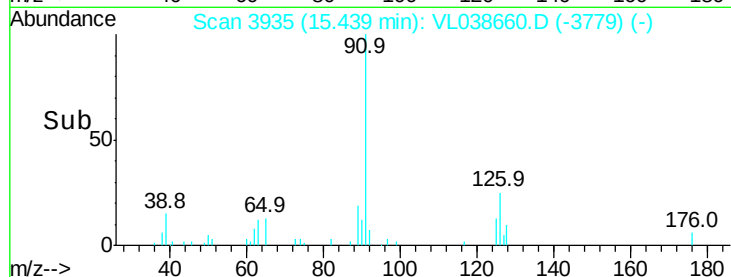
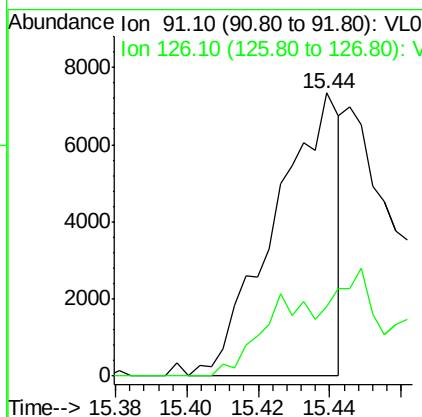
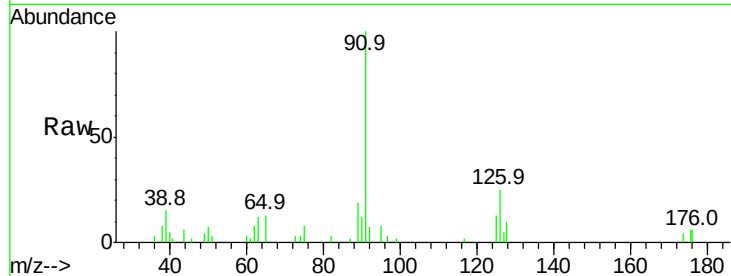
Tgt Ion: 119 Resp: 16058
 Ion Ratio Lower Upper
 119 100
 134 24.7 21.2 31.8
 91 37.9 21.4 32.2#





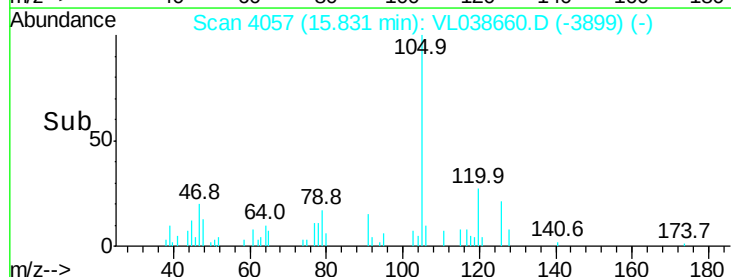
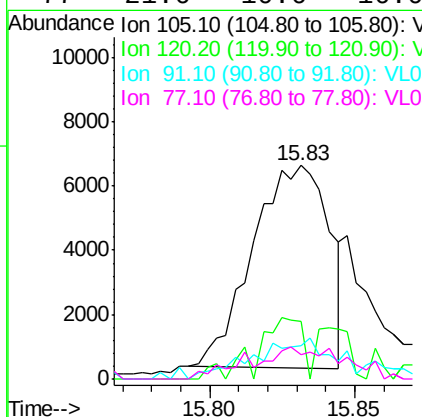
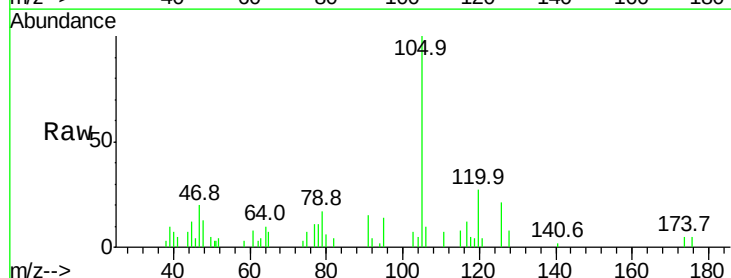
#71
 2-Chlorotoluene
 Concen: 0.04 ppbv
 RT: 15.44 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 21 Mar 2022 21:20

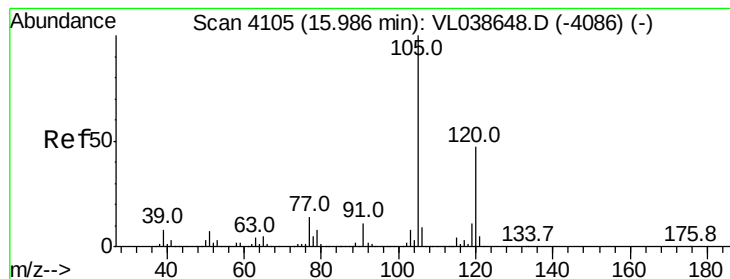
Tgt Ion: 91 Resp: 9256
 Ion Ratio Lower Upper
 91 100
 126 0.0 13.1 52.3#



#72
 4-Ethyltoluene
 Concen: 0.05 ppbv
 RT: 15.83 min Scan# 4057
 Delta R.T.: 0.01 min
 Lab File: VL038660.D
 Acq: 21 Mar 2022 21:26

Tgt Ion: 105 Resp: 11493
 Ion Ratio Lower Upper
 105 100
 120 29.6 24.9 37.3
 91 26.8 9.8 14.6#
 77 21.6 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.04 ppbv

RT: 15.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

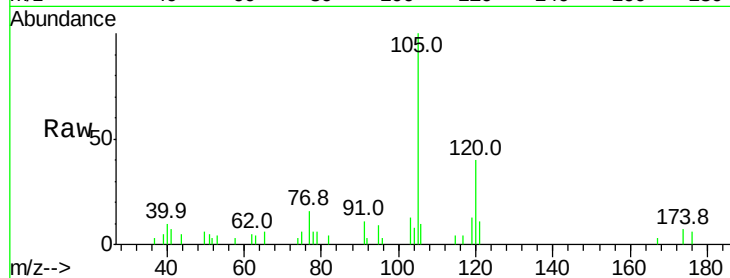
Acq: 21 Mar 2022 21:20

Tgt Ion:105 Resp: 7859

Ion Ratio Lower Upper

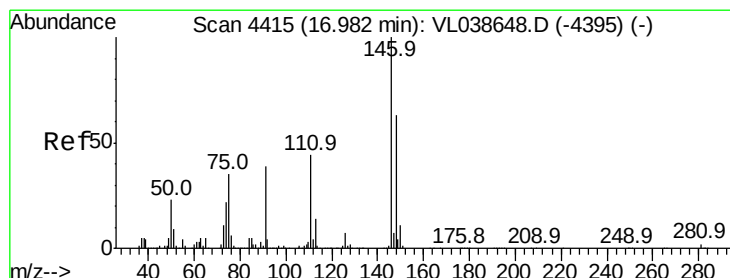
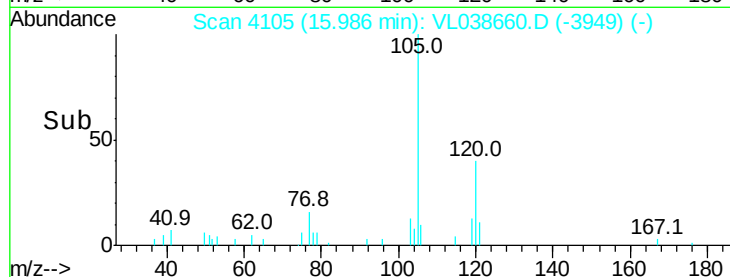
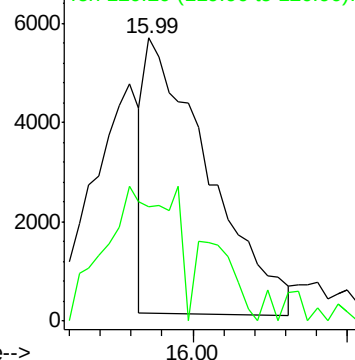
105 100

120 31.1 37.6 56.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#75

1,3-Dichlorobenzene

Concen: 0.04 ppbv

RT: 16.99 min Scan# 4416

Delta R.T. 0.00 min

Lab File: VL038660.D

Acq: 21 Mar 2022 21:26

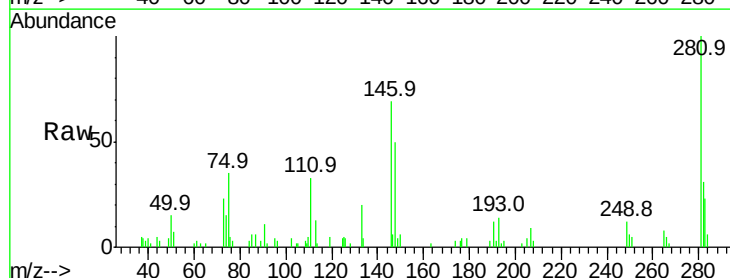
Tgt Ion:146 Resp: 5949

Ion Ratio Lower Upper

146 100

111 110.1 22.2 66.6#

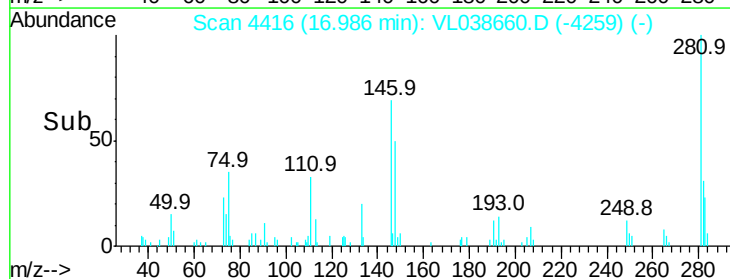
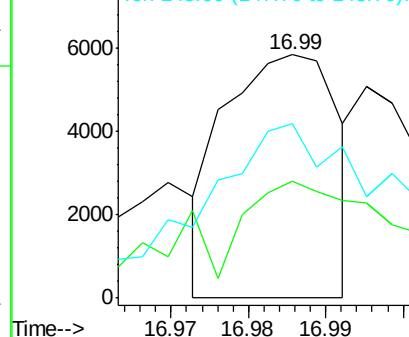
148 152.2 32.5 97.5#

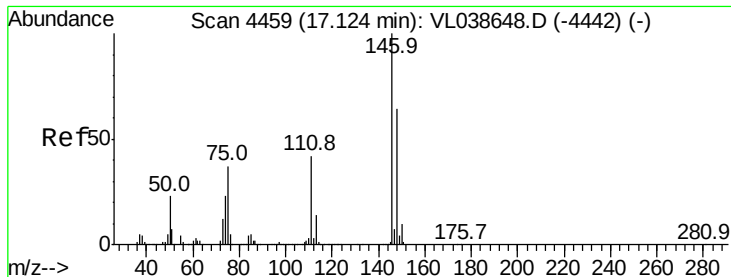


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#76

1,4-Dichlorobenzene

Concen: 0.08 ppbv

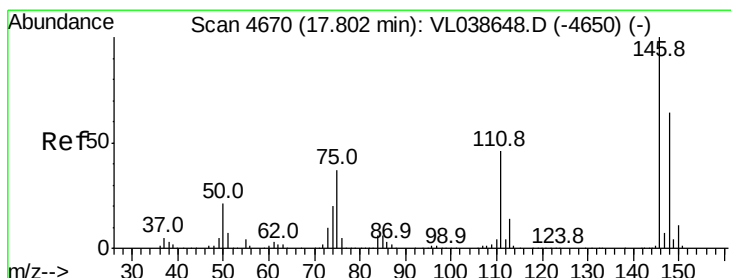
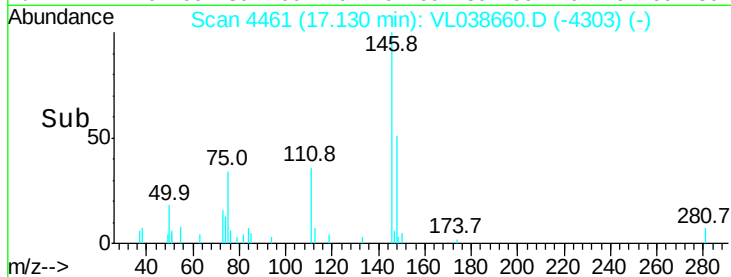
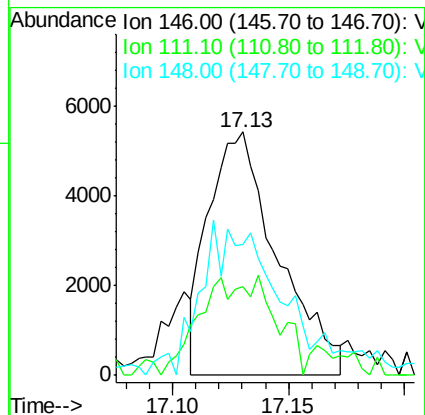
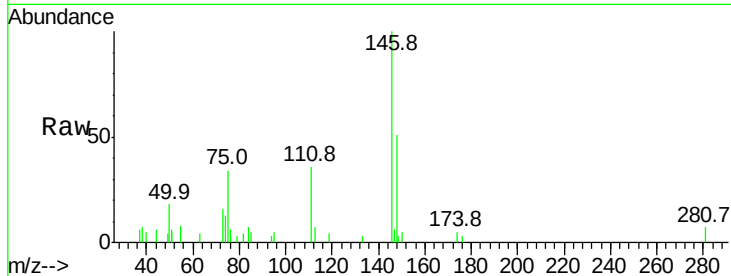
RT: 17.13

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 21:20

Tgt Ion:	146	Resp:	11247
Ion	Ratio	Lower	Upper
146	100		
111	52.6	21.4	64.2
148	0.0	32.1	96.3#



#77

1,2-Dichlorobenzene

Concen: 0.08 ppbv

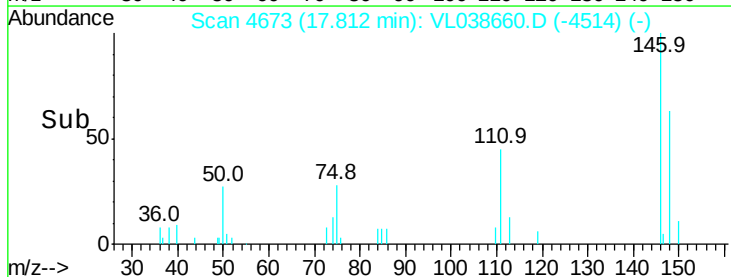
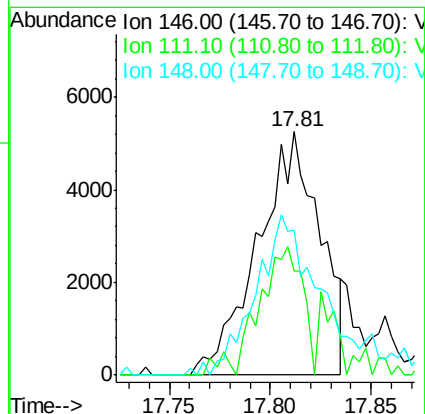
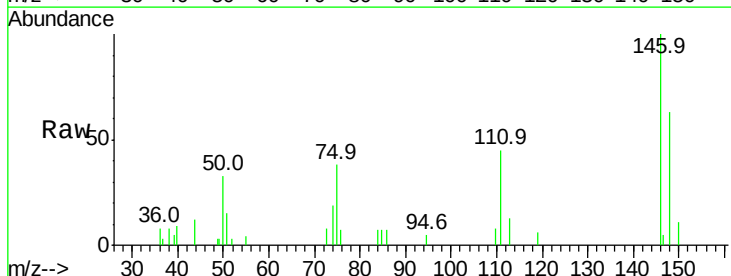
RT: 17.81 min Scan# 4673

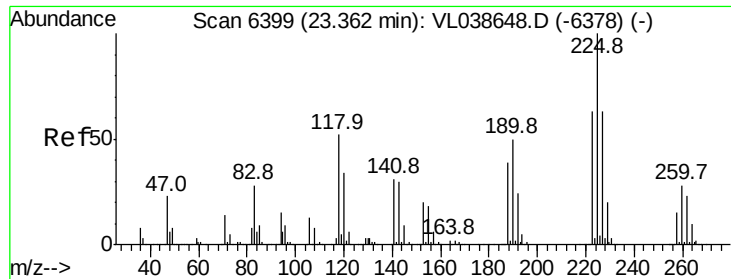
Delta R.T. 0.01 min

Lab File: VL038660.D

Acq: 21 Mar 2022 21:26

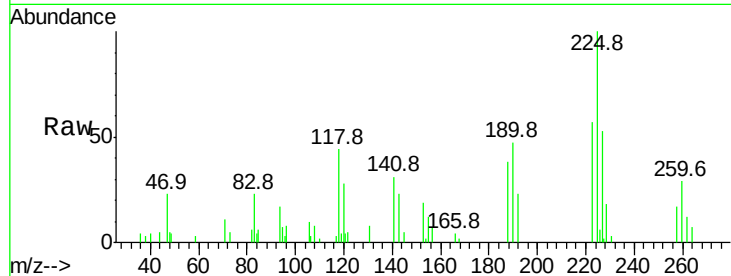
Tgt Ion:	146	Resp:	11216
Ion	Ratio	Lower	Upper
146	100		
111	51.4	22.8	68.4
148	76.3	32.5	97.4



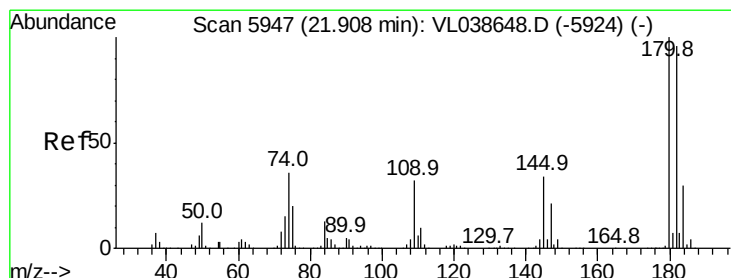
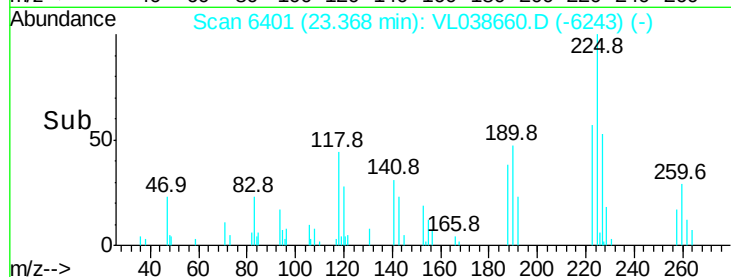
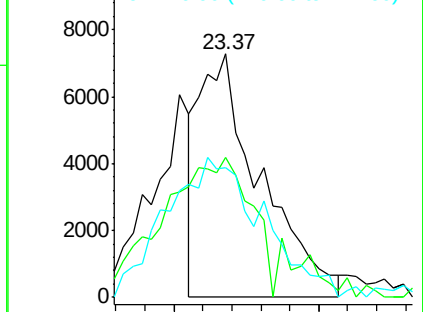


#78
 Hexachloro-1,3-Butadiene
 Concen: 0.08 ppbv
 RT: 23.37
 Instrument: MSVOA_1
 Delta R.T.:
 ClientSampleId:
 Lab File: LOQ-AIR-02-OT1-2022
 Acq: 21 Mar 2022 21:20

Tgt Ion: 225 Resp: 10635
 Ion Ratio Lower Upper
 225 100
 223 97.3 51.0 76.6#
 227 96.0 51.5 77.3#

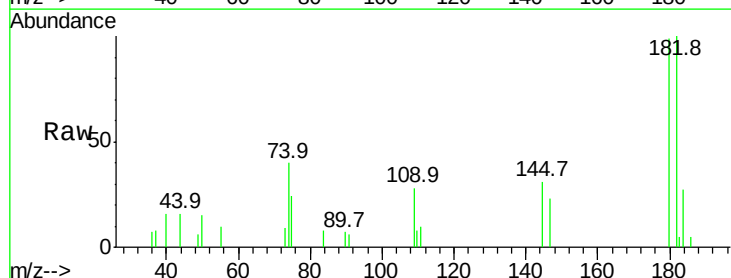


Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V



#81
 1,2,4-Trichlorobenzene
 Concen: 0.02 ppbv
 RT: 21.92 min Scan# 5950
 Delta R.T.: 0.01 min
 Lab File: VL038660.D
 Acq: 21 Mar 2022 21:26

Tgt Ion: 180 Resp: 2977
 Ion Ratio Lower Upper
 180 100
 182 261.0 79.2 118.8#
 184 33.3 24.8 37.2



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

