

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031722\
 Data File : VL038644.D
 Acq On : 18 Mar 2022 3:01
 Operator : SY/AP
 Sample : N1645-15 0.1 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT1-2022DL

Quant Time: Mar 18 04:52:42 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 08 21:18:44 2022
 QLast Update : Tue Mar 08 21:18:44 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	815798	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	2091438	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.09	117	1736243	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1193969	9.04	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.40%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.06	85	17783	0.14	ppbv	94
3) Chlorodifluoromethane	3.00	51	18975	0.13	ppbv	100
4) Chloromethane	3.15	50	7402	0.14	ppbv	94
5) Vinyl Chloride	3.26	62	5563	0.10	ppbv #	85
6) Bromomethane	3.48	94	2637	0.09	ppbv	86
7) Chloroethane	3.56	64	2278	0.13	ppbv #	41
8) Dichlorotetrafluoroethane	3.19	85	16151	0.14	ppbv	96
9) Propene	3.02	41	6527	0.13	ppbv #	63
10) Heptane	8.13	43	5076	0.04	ppbv #	28
11) Trichlorofluoromethane	3.95	101	5498	0.05	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.49	101	6258	0.07	ppbv #	41
13) Ethanol	3.63	45	581	0.10	ppbv #	34
14) Bromoethene	3.74	108	4224	0.12	ppbv #	90
16) 1,3-Butadiene	3.33	39	5230	0.11	ppbv #	82
18) 1,1-Dichloroethene	4.30	96	4376	0.12	ppbv #	52
20) Methylene Chloride	4.35	84	4005	0.12	ppbv #	80
21) Allyl Chloride	4.42	41	4420	0.08	ppbv #	58
22) trans-1,2-Dichloroethene	4.89	96	4021	0.10	ppbv #	72
24) 1,1-Dichloroethane	5.01	63	8452	0.11	ppbv	96
25) Ethyl Acetate	5.69	43	7878	0.04	ppbv #	75
26) Hexane	5.69	57	10034	0.11	ppbv #	74
27) Carbon Disulfide	4.56	76	6118	0.07	ppbv #	74
28) Methyl tert-Butyl Ether	5.06	73	8749	0.12	ppbv	96
29) Chloroform	5.75	83	17474	0.12	ppbv	90
30) Cyclohexane	7.13	84	5575	0.07	ppbv #	15
31) cis-1,2-Dichloroethene	5.56	61	8718	0.10	ppbv	89
32) 1,1,1-Trichloroethane	6.52	97	8880	0.06	ppbv #	35
35) Carbon Tetrachloride	7.02	117	8334	0.06	ppbv #	84
36) Benzene	6.90	78	10025	0.05	ppbv #	91
37) 1,2-Dichloroethane	6.31	62	6895	0.08	ppbv #	92
38) Trichloroethene	7.83	130	5255	0.07	ppbv #	61
39) 1,2-Dichloropropane	7.61	63	4973	0.07	ppbv #	80
42) Bromodichloromethane	7.80	83	5985	0.04	ppbv	95
44) 2,2,4-Trimethylpentane	7.87	57	6940	0.02	ppbv #	1
48) Dibromochloromethane	10.31	129	4261	0.04	ppbv #	1
49) Bromoform	13.05	173	3247	0.04	ppbv #	34
52) Tetrachloroethene	11.23	164	4386	0.06	ppbv #	78
53) Toluene	9.81	91	16945	0.08	ppbv	99
54) 1,2-Dibromoethane	10.61	107	5182	0.05	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.12	131	1554	0.02	ppbv #	1
57) Chlorobenzene	12.15	112	8977	0.07	ppbv #	87

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

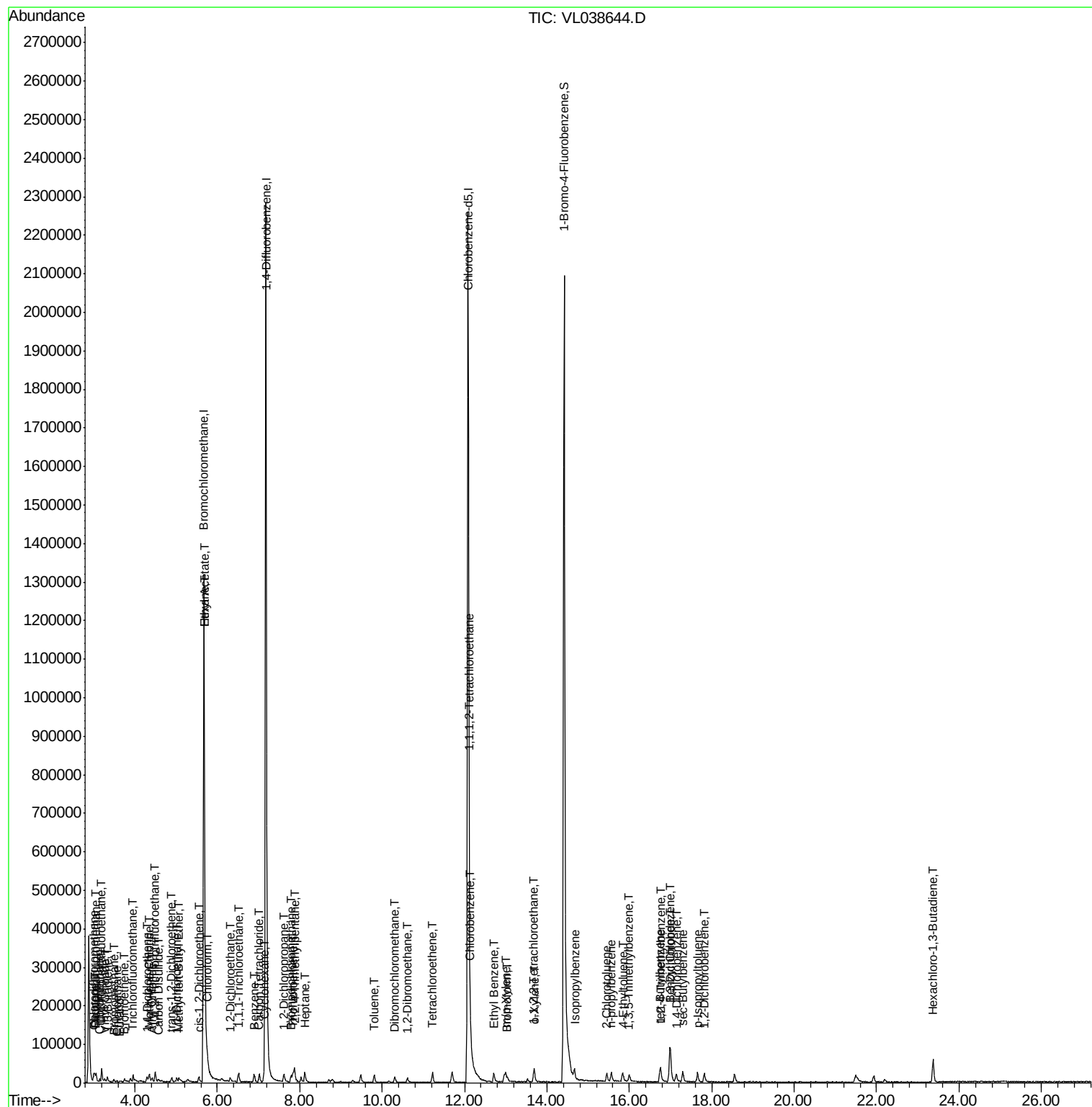
58) Ethyl Benzene	12.71	91	10356	0.05	ppbv	91
59) m/p-Xylene	13.00	91	12416	0.06	ppbv #	30
60) o-Xylene	13.69	91	13914	0.08	ppbv	89
62) Isopropylbenzene	14.67	105	24111	0.10	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.68	83	15715	0.10	ppbv	90
64) n-propylbenzene	15.57	120	3254	0.05	ppbv #	1
65) tert-Butylbenzene	16.74	119	6858	0.03	ppbv #	1
66) Benzyl Chloride	16.99	91	309	0.02	ppbv #	1
67) sec-Butylbenzene	17.29	105	24493	0.08	ppbv	99
69) p-Isopropyltoluene	17.65	119	19114	0.07	ppbv #	93
71) 2-Chlorotoluene	15.46	91	8775	0.05	ppbv #	55
72) 4-Ethyltoluene	15.84	105	6529	0.03	ppbv #	37
73) 1,3,5-Trimethylbenzene	16.00	105	7287	0.04	ppbv #	61
74) 1,2,4-Trimethylbenzene	16.76	105	8799	0.04	ppbv #	87
75) 1,3-Dichlorobenzene	17.00	146	5448	0.04	ppbv #	1
76) 1,4-Dichlorobenzene	17.14	146	12267	0.09	ppbv	89
77) 1,2-Dichlorobenzene	17.82	146	13163	0.10	ppbv	94
78) Hexachloro-1,3-Butadiene	23.39	225	3018	0.02	ppbv #	18

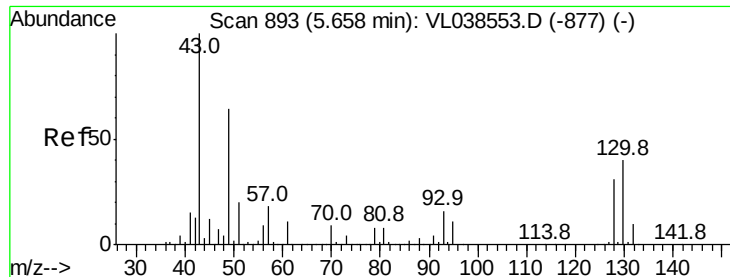
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

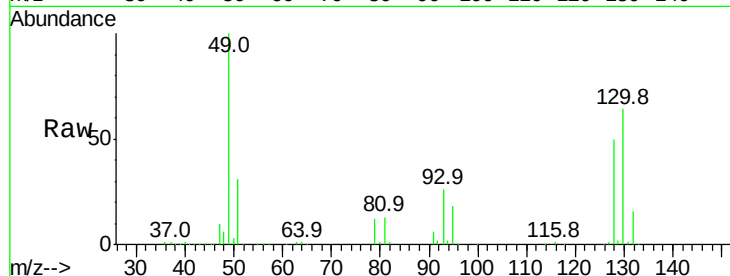
Tgt Ion: 49 Resp: 815798

Ion Ratio Lower Upper

49 100

128 53.8 26.4 79.2

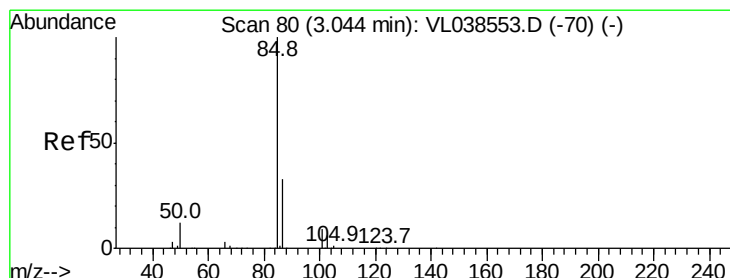
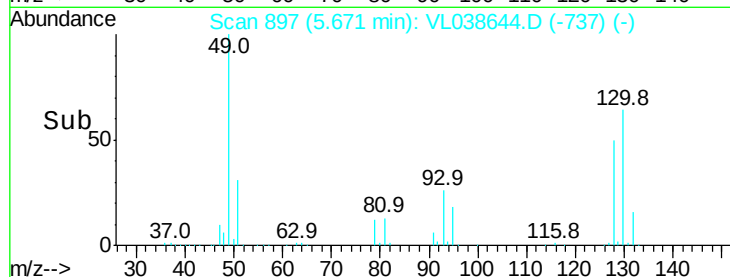
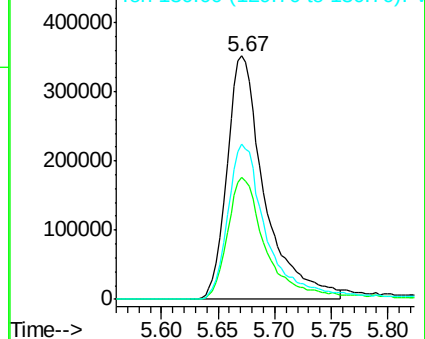
130 68.5 33.0 98.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.14 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL038644.D

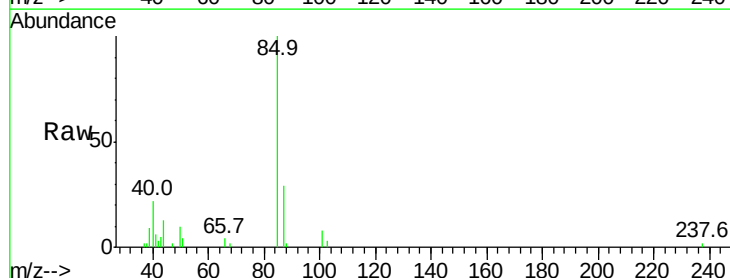
Acq: 18 Mar 2022 3:01

Tgt Ion: 85 Resp: 17783

Ion Ratio Lower Upper

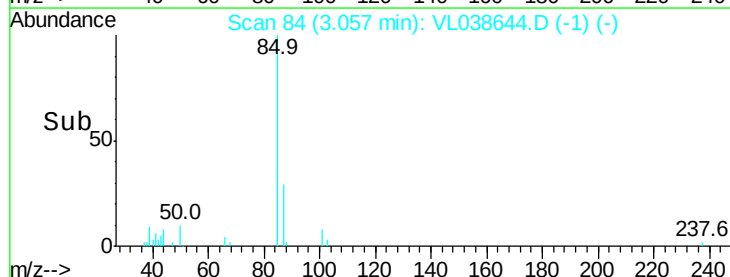
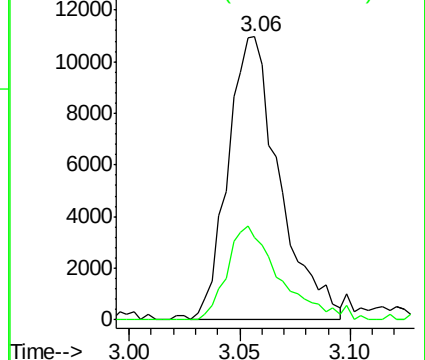
85 100

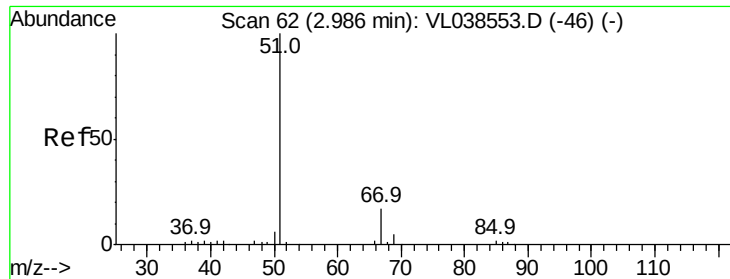
87 29.1 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.13 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

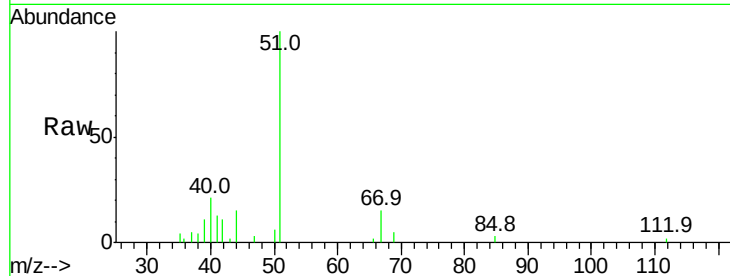
Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

Tgt Ion: 51 Resp: 18975

Ion Ratio Lower Upper

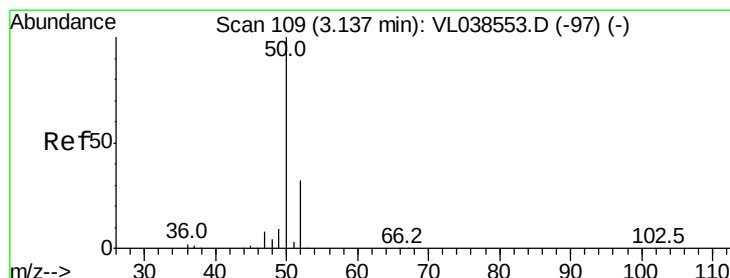
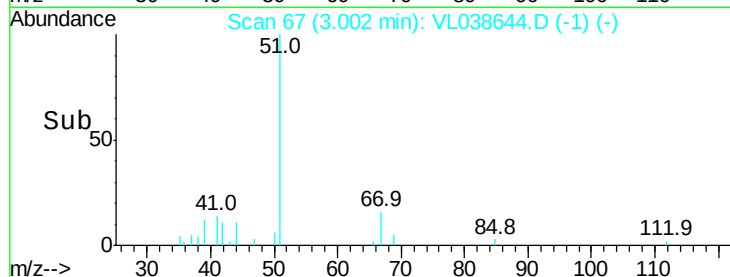
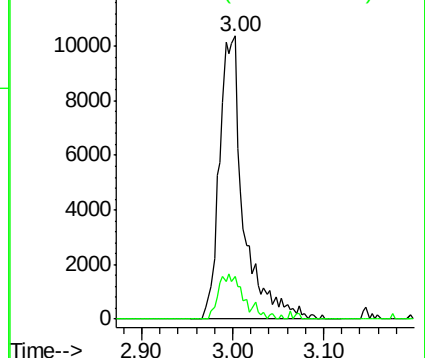
51 100

67 16.9 13.6 20.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.14 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL038644.D

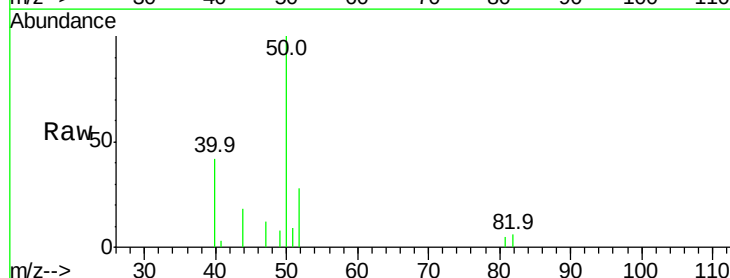
Acq: 18 Mar 2022 3:01

Tgt Ion: 50 Resp: 7402

Ion Ratio Lower Upper

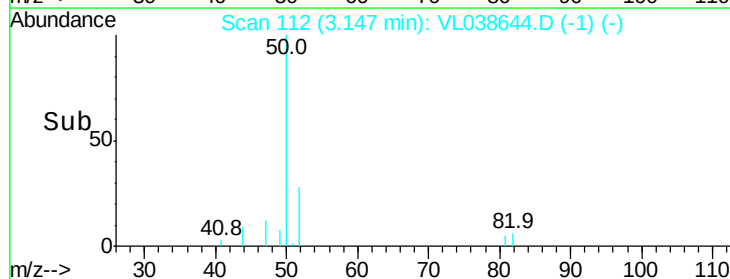
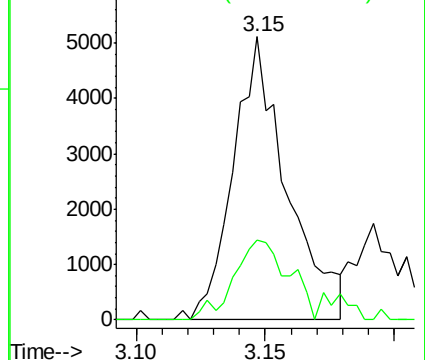
50 100

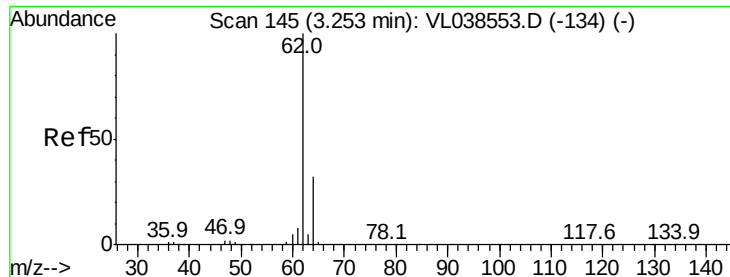
52 28.4 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.10 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

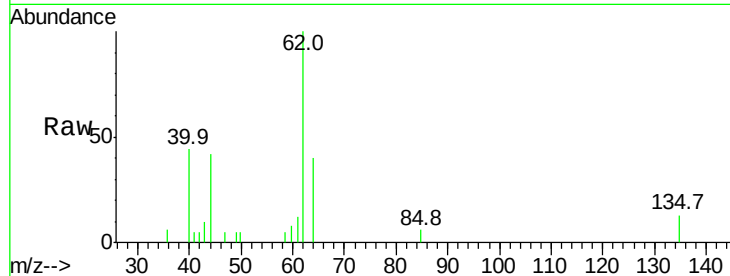
Acq: 18 Mar 2022 3:01 MDL-AIR-03-OT1-2022DL

Tgt Ion: 62 Resp: 5563

Ion Ratio Lower Upper

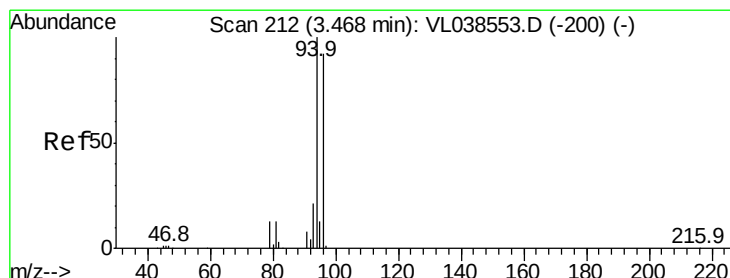
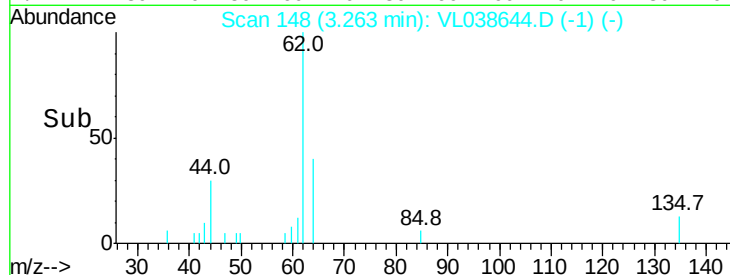
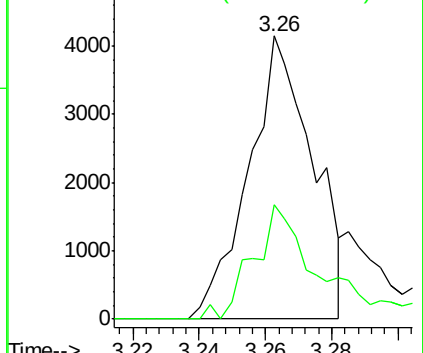
62 100

64 40.3 25.8 38.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.09 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.01 min

Lab File: VL038644.D

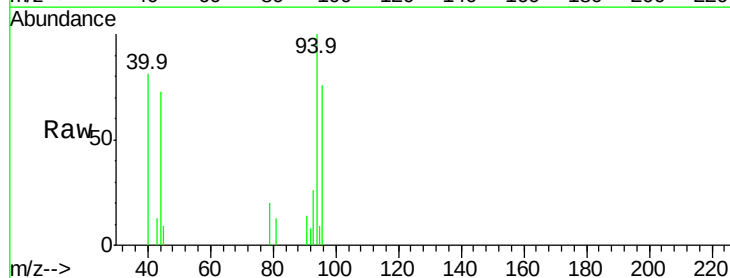
Acq: 18 Mar 2022 3:01

Tgt Ion: 94 Resp: 2637

Ion Ratio Lower Upper

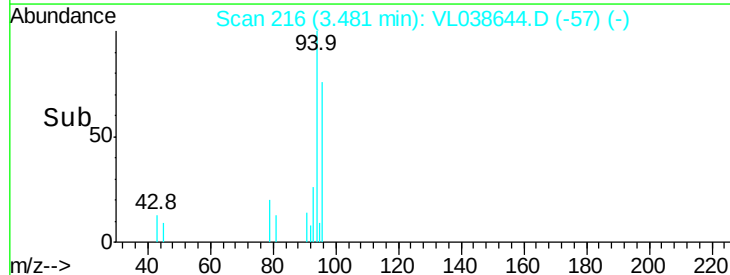
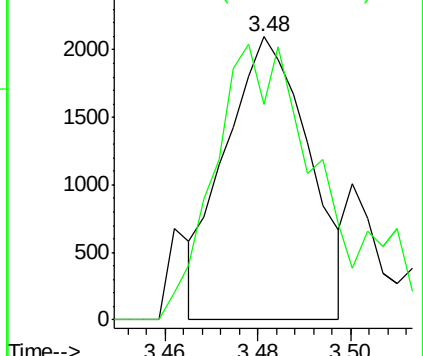
94 100

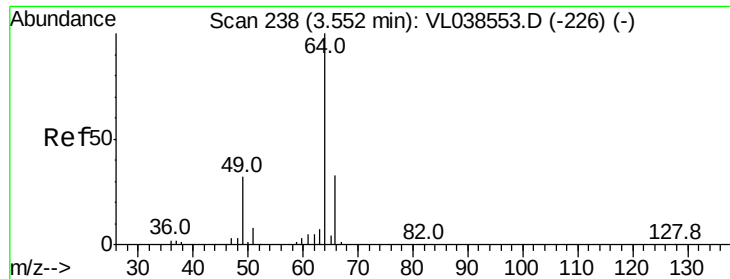
96 78.7 73.7 110.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.13 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

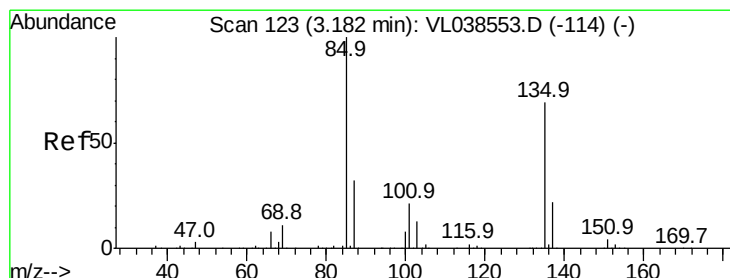
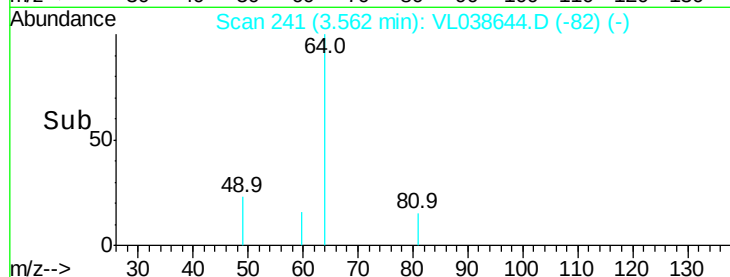
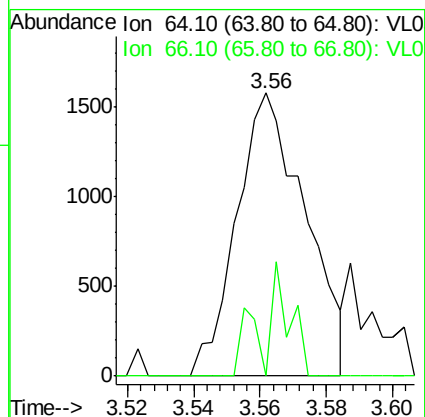
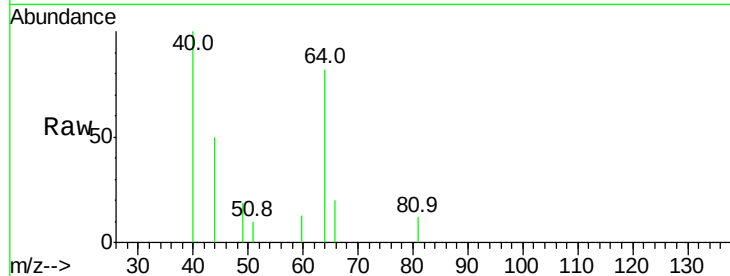
Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

Tgt Ion: 64 Resp: 2278

Ion Ratio Lower Upper

64 100

66 0.0 26.6 39.8#



#8

Dichlorotetrafluoroethane

Concen: 0.14 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.01 min

Lab File: VL038644.D

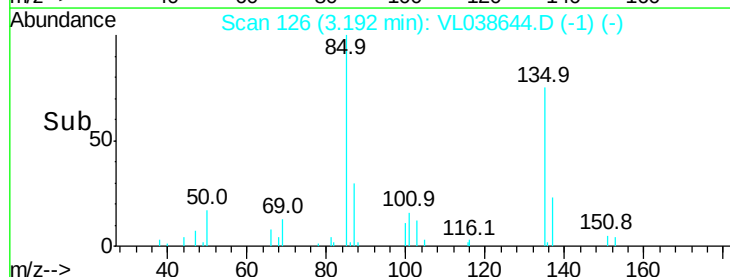
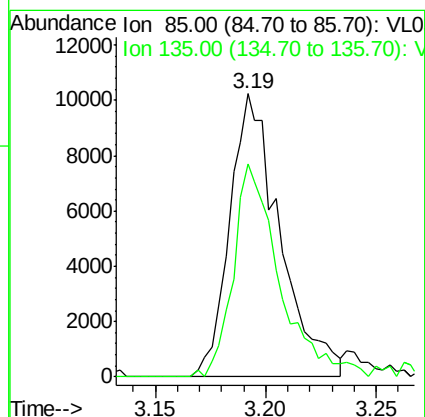
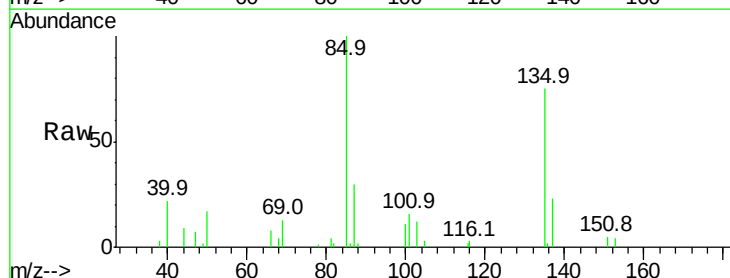
Acq: 18 Mar 2022 3:01

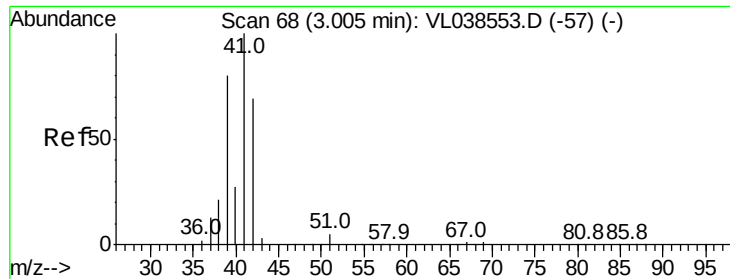
Tgt Ion: 85 Resp: 16151

Ion Ratio Lower Upper

85 100

135 70.1 59.0 88.4





#9

Propene

Concen: 0.13 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

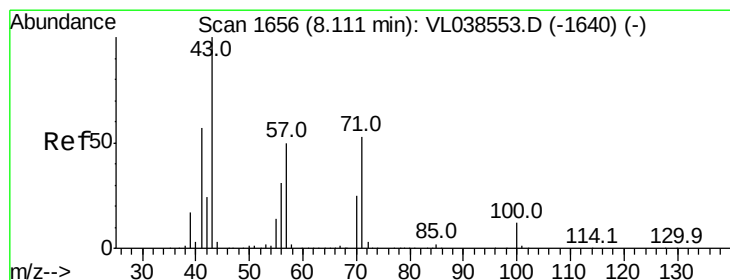
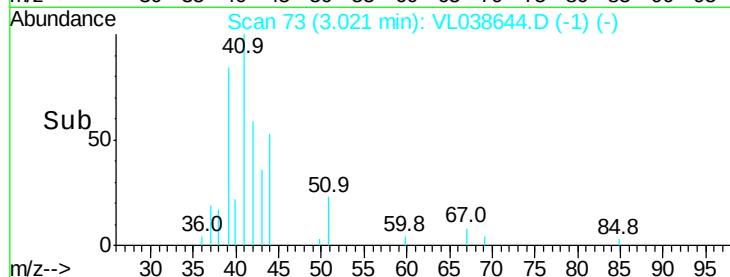
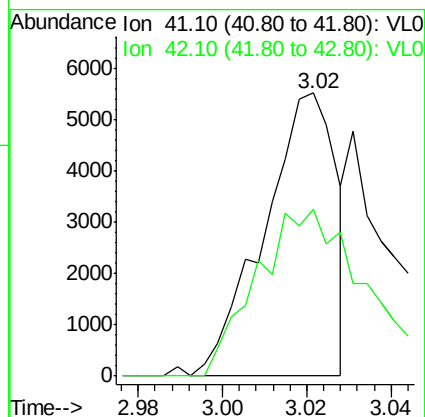
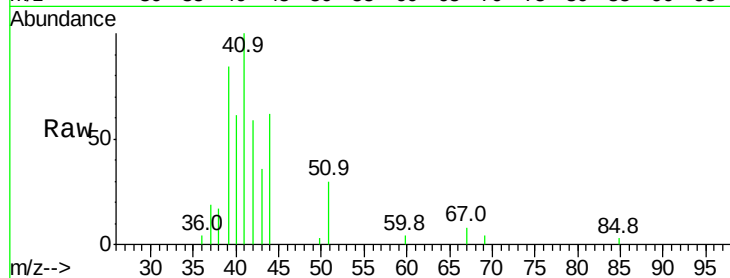
Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

Tgt Ion: 41 Resp: 6527

Ion Ratio Lower Upper

41 100

42 99.7 55.7 83.5#



#10

Heptane

Concen: 0.04 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.02 min

Lab File: VL038644.D

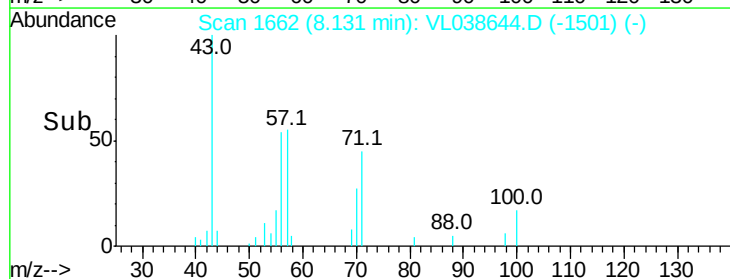
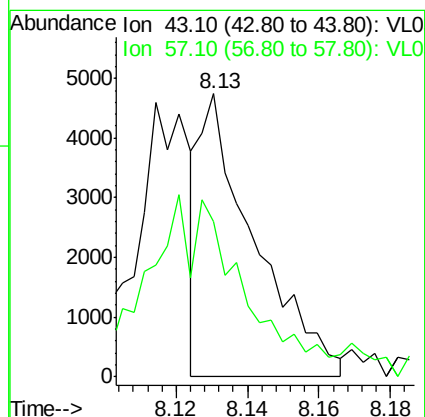
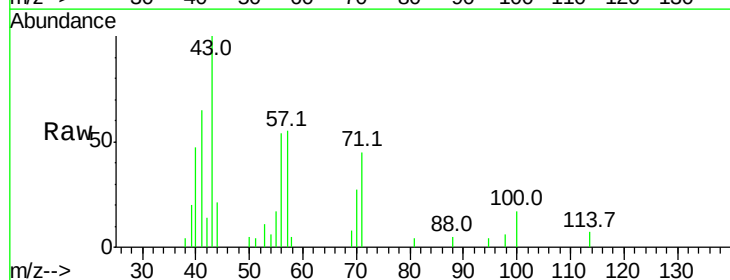
Acq: 18 Mar 2022 3:01

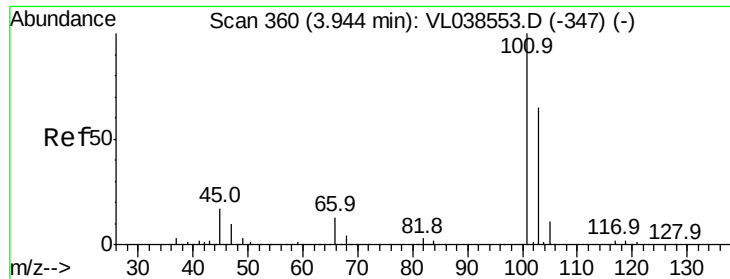
Tgt Ion: 43 Resp: 5076

Ion Ratio Lower Upper

43 100

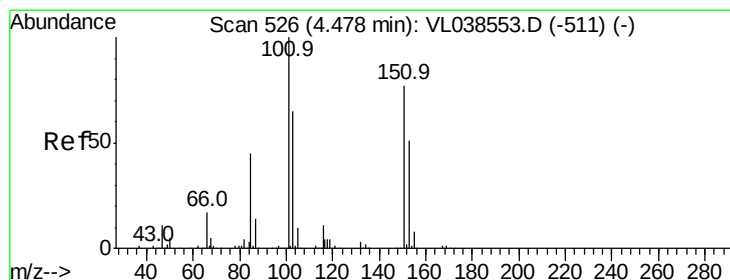
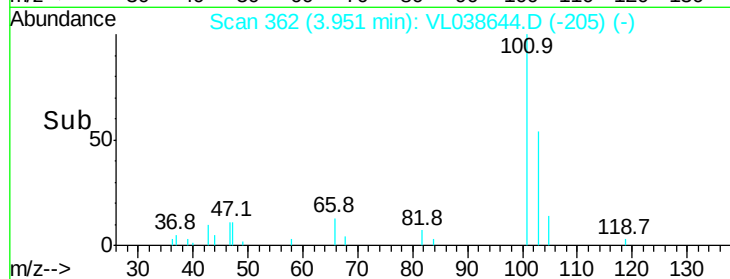
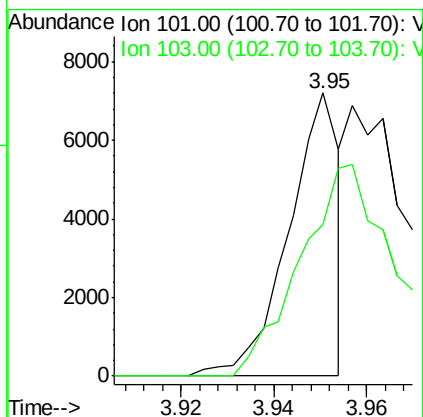
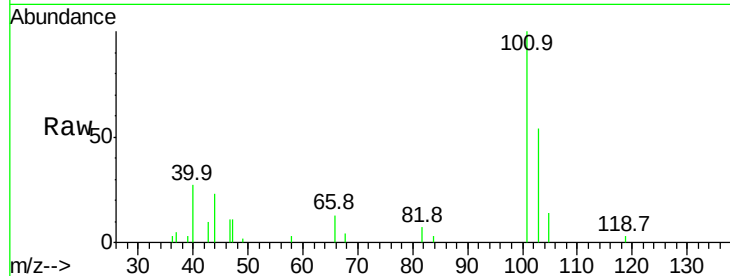
57 0.0 39.6 59.4#





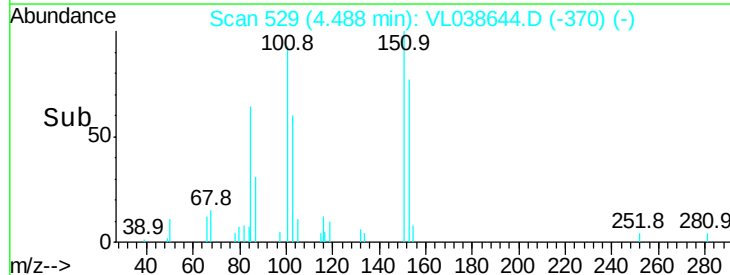
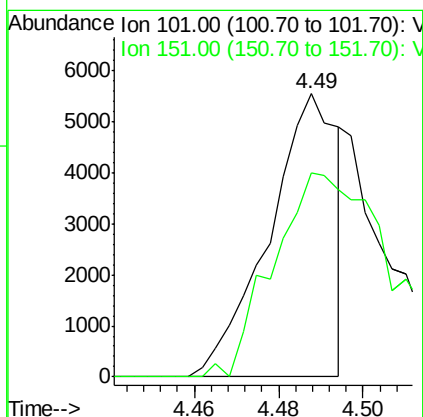
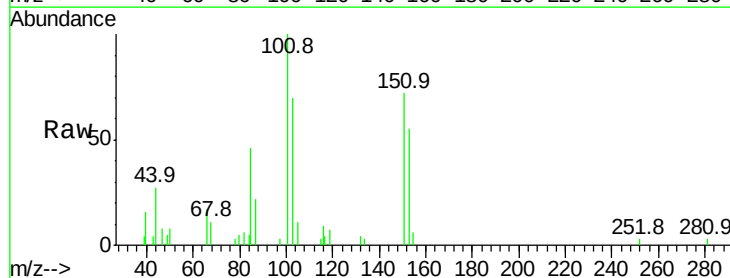
#11
 Trichlorofluoromethane
 Concen: 0.05 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 18 Mar 2022 3:01

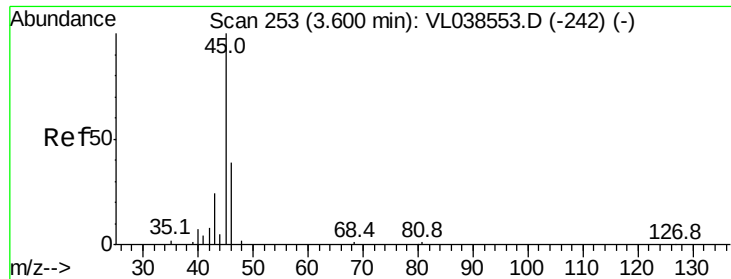
Tgt Ion:101 Resp: 5498
 Ion Ratio Lower Upper
 101 100
 103 53.7 52.0 78.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.07 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.01 min
 Lab File: VL038644.D
 Acq: 18 Mar 2022 3:01

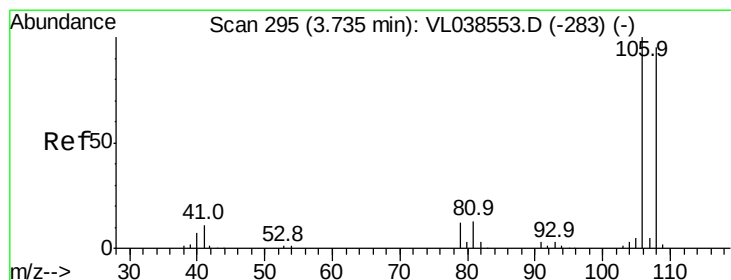
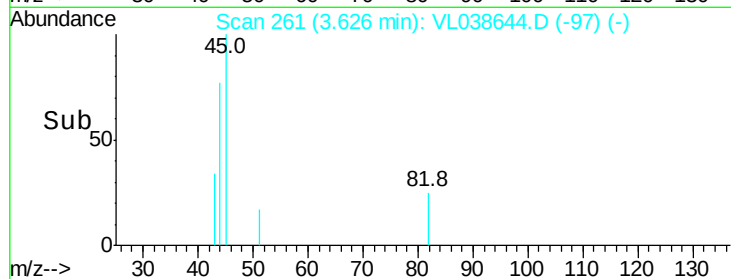
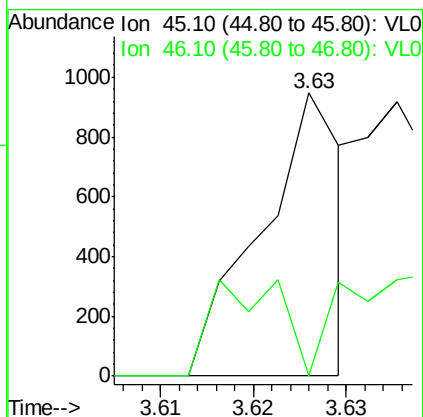
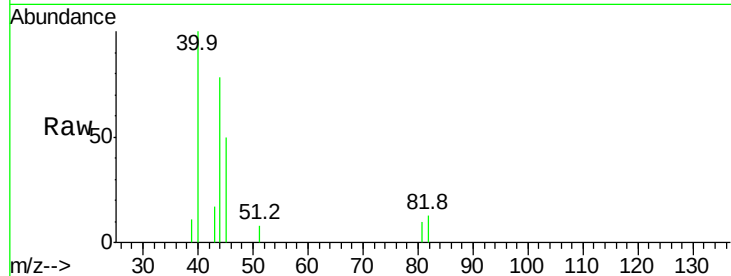
Tgt Ion:101 Resp: 6258
 Ion Ratio Lower Upper
 101 100
 151 131.4 63.4 95.0#





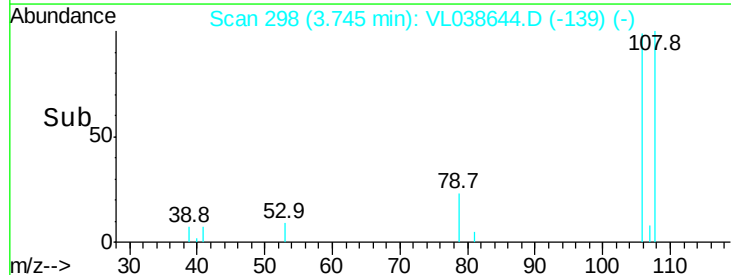
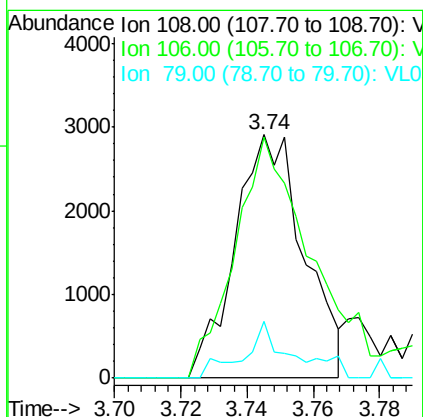
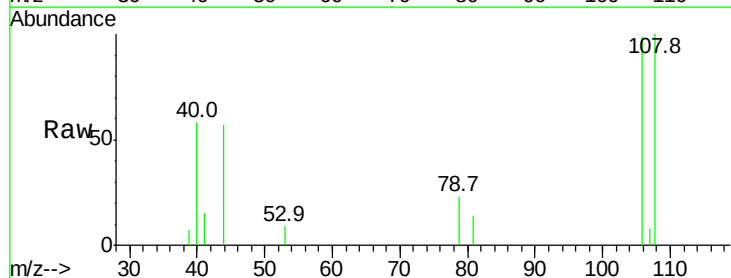
#13
Ethanol
Concen: 0.10 ppbv
RT: 3.63
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 18 Mar 2022 3:01

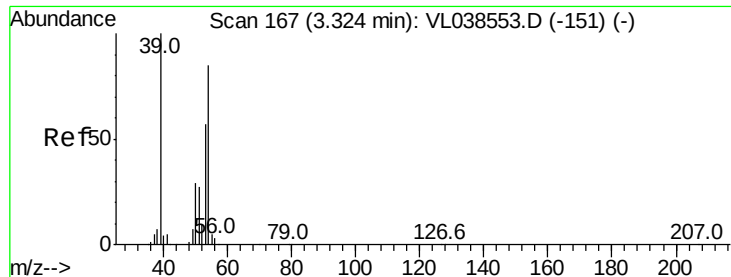
Tgt Ion: 45 Resp: 581
Ion Ratio Lower Upper
45 100
46 0.0 16.8 67.0#



#14
Bromoethene
Concen: 0.12 ppbv
RT: 3.74 min Scan# 298
Delta R.T. 0.01 min
Lab File: VL038644.D
Acq: 18 Mar 2022 3:01

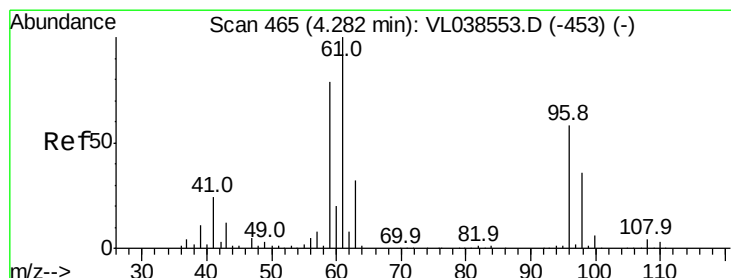
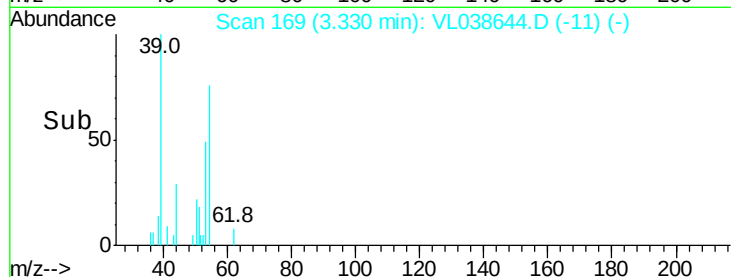
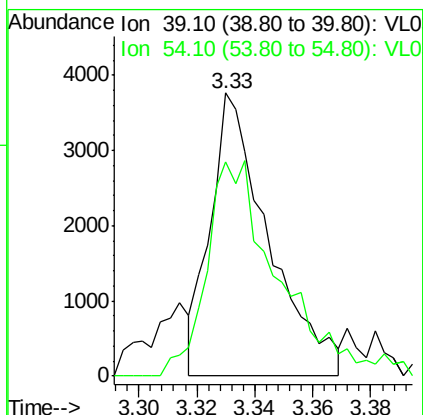
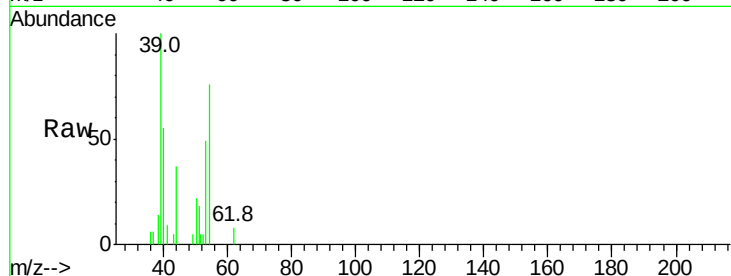
Tgt Ion: 108 Resp: 4224
Ion Ratio Lower Upper
108 100
106 118.5 85.9 128.9
79 17.3 11.0 16.6#





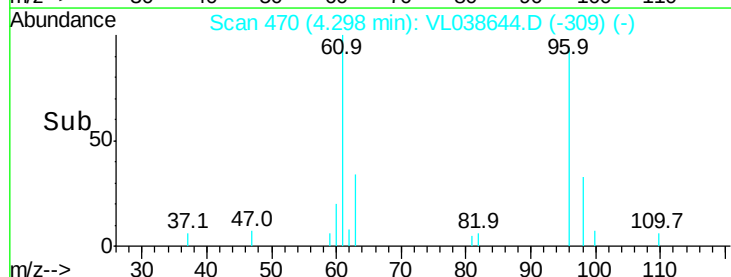
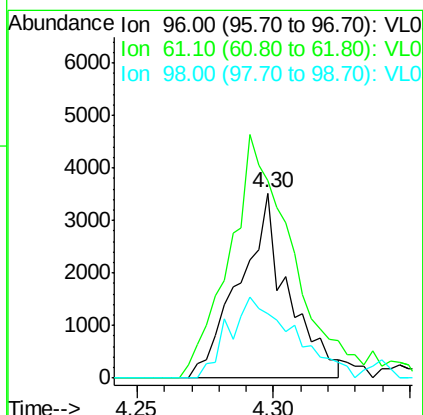
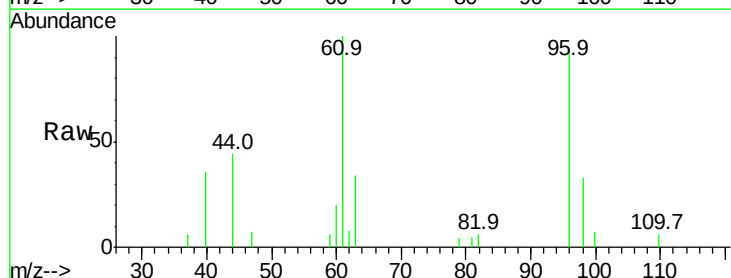
#16
 1,3-Butadiene
 Concen: 0.11 ppbv
 RT: 3.33
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 18 Mar 2022 3:01

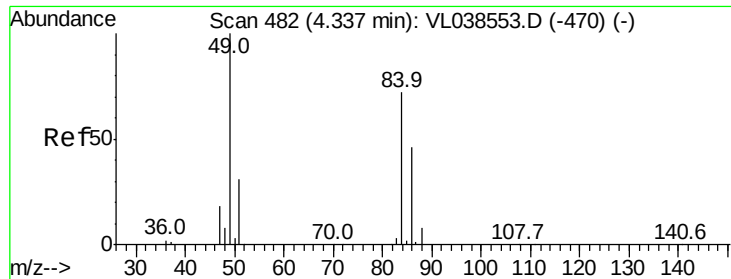
Tgt Ion: 39 Resp: 5230
 Ion Ratio Lower Upper
 39 100
 54 96.5 64.2 96.2#



#18
 1,1-Dichloroethene
 Concen: 0.12 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.02 min
 Lab File: VL038644.D
 Acq: 18 Mar 2022 3:01

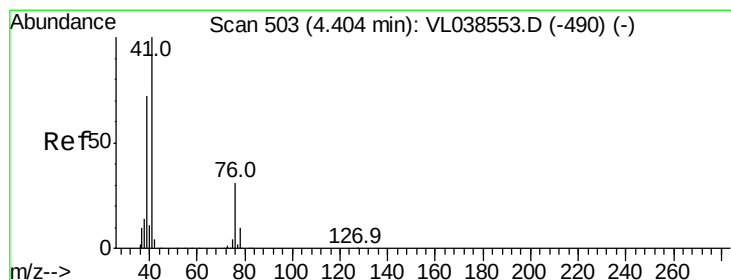
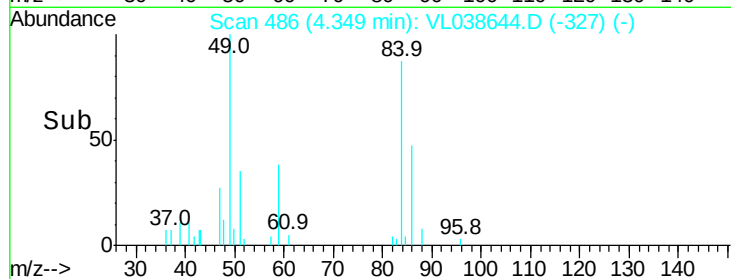
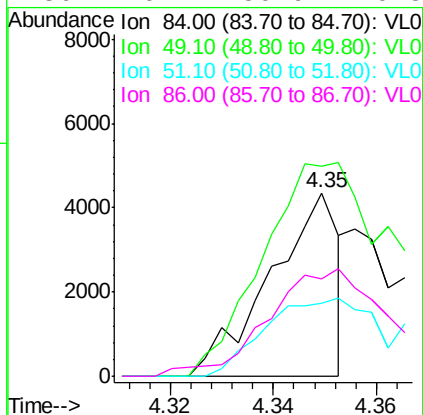
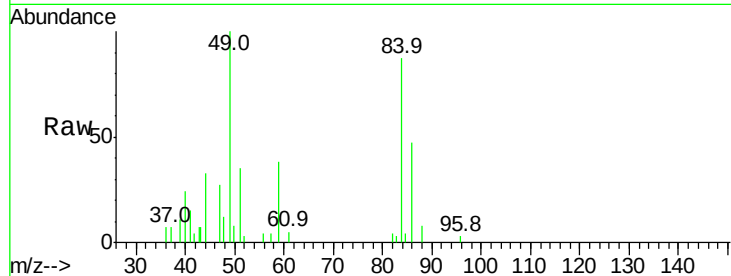
Tgt Ion: 96 Resp: 4376
 Ion Ratio Lower Upper
 96 100
 61 99.4 137.4 206.0#
 98 35.1 49.3 73.9#





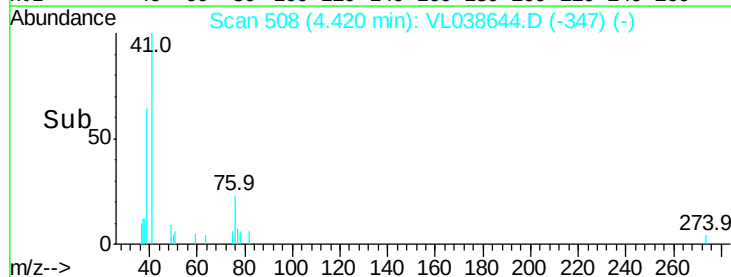
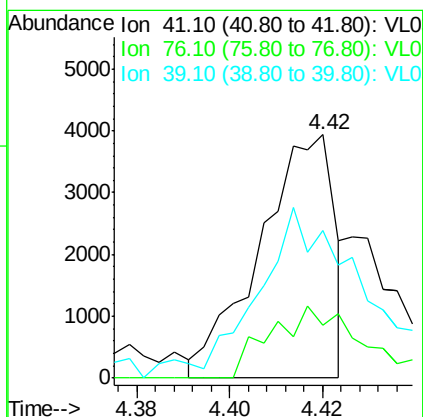
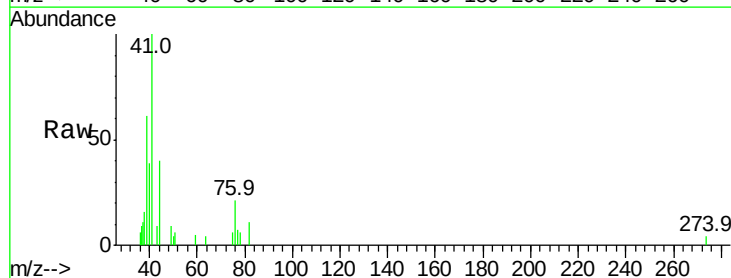
#20
Methylene Chloride
Concen: 0.12 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 18 Mar 2022 3:01

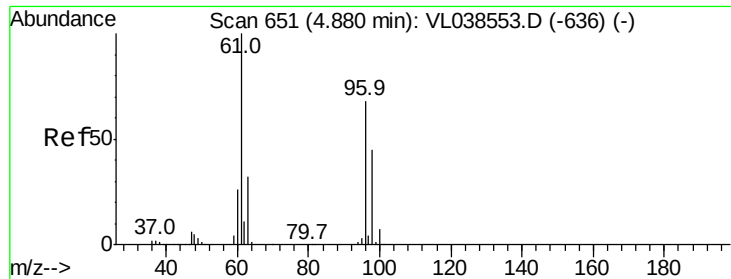
Tgt Ion:	84	Resp:	4005
Ion	Ratio	Lower	Upper
84	100		
49	109.8	111.1	166.7#
51	38.2	34.0	51.0
86	46.7	50.9	76.3#



#21
Allyl Chloride
Concen: 0.08 ppbv
RT: 4.42 min Scan# 508
Delta R.T. 0.02 min
Lab File: VL038644.D
Acq: 18 Mar 2022 3:01

Tgt Ion:	41	Resp:	4420
Ion	Ratio	Lower	Upper
41	100		
76	43.0	24.3	36.5#
39	112.6	57.1	85.7#





#22

trans-1,2-Dichloroethene

Concen: 0.10 ppbv

RT: 4.89 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

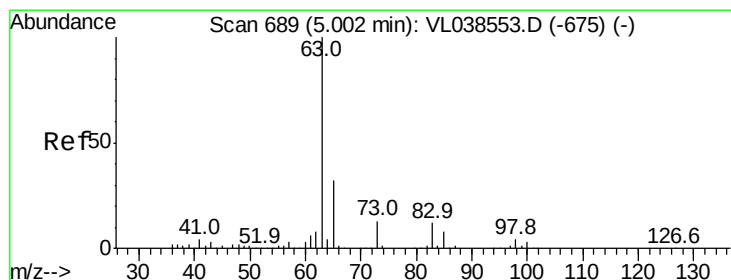
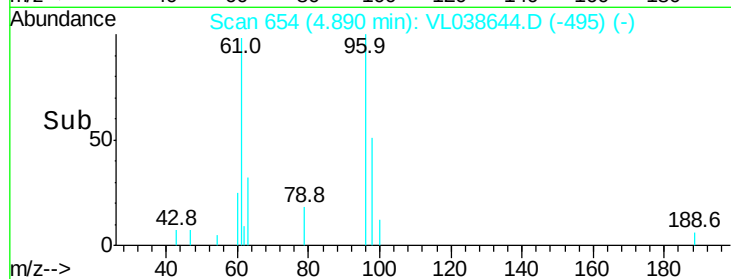
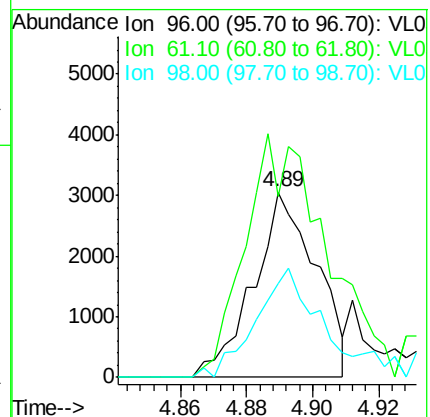
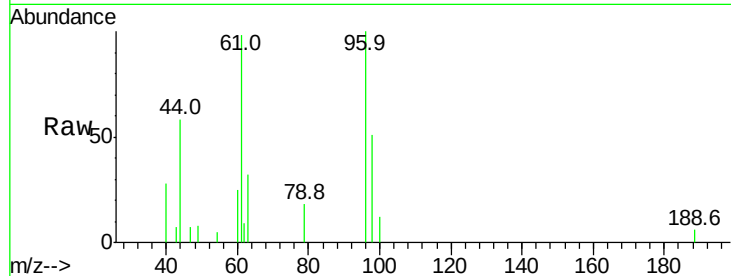
Tgt Ion: 96 Resp: 4021

Ion Ratio Lower Upper

96 100

61 107.1 117.6 176.4#

98 50.8 52.6 78.8#



#24

1,1-Dichloroethane

Concen: 0.11 ppbv

RT: 5.01 min Scan# 693

Delta R.T. 0.01 min

Lab File: VL038644.D

Acq: 18 Mar 2022 3:01

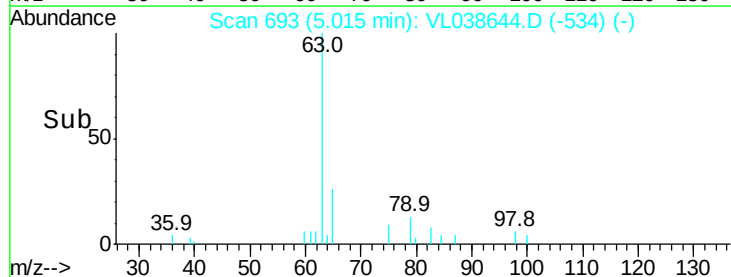
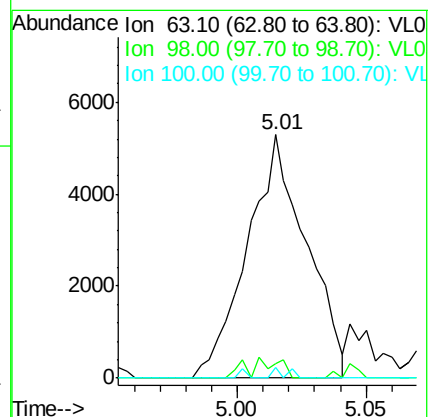
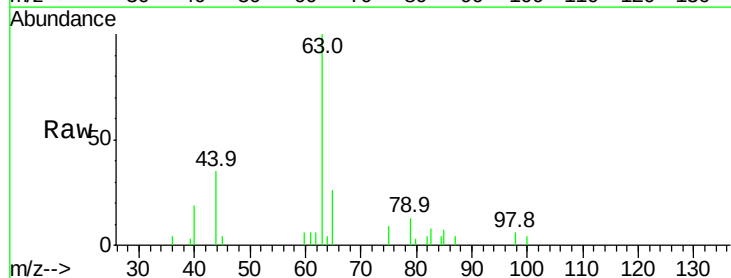
Tgt Ion: 63 Resp: 8452

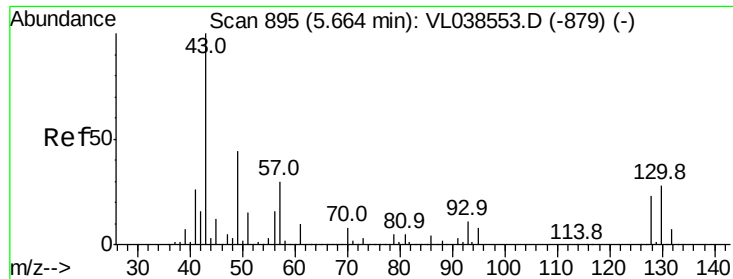
Ion Ratio Lower Upper

63 100

98 6.0 2.2 6.6

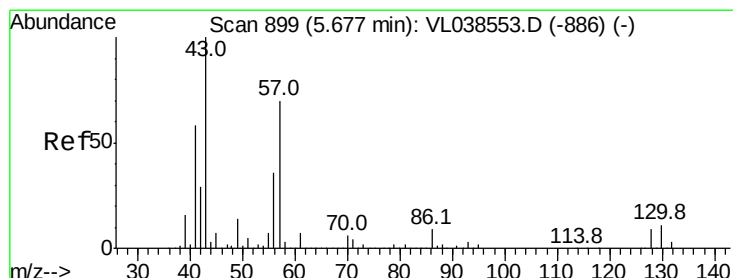
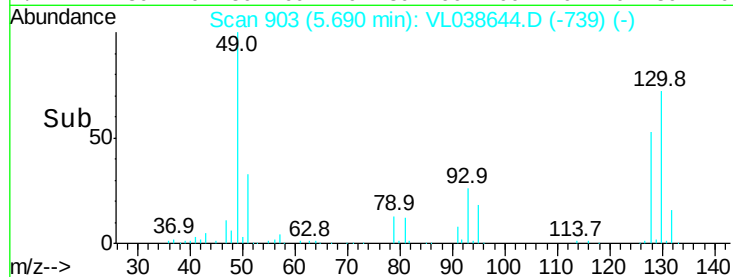
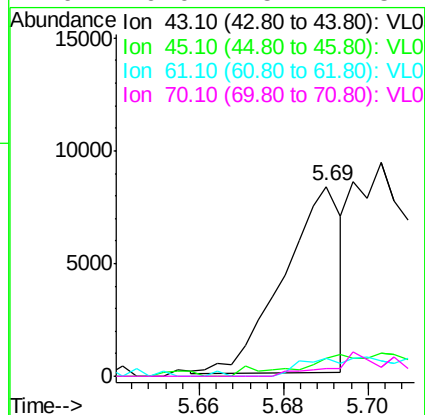
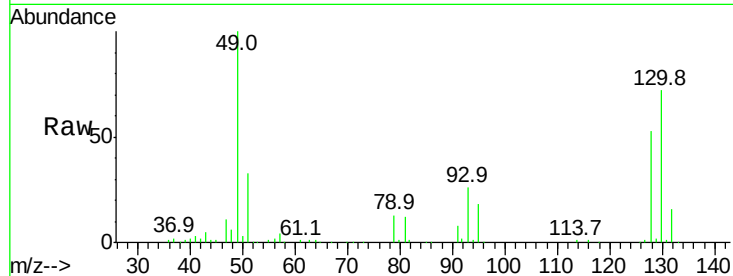
100 4.2 1.5 4.5





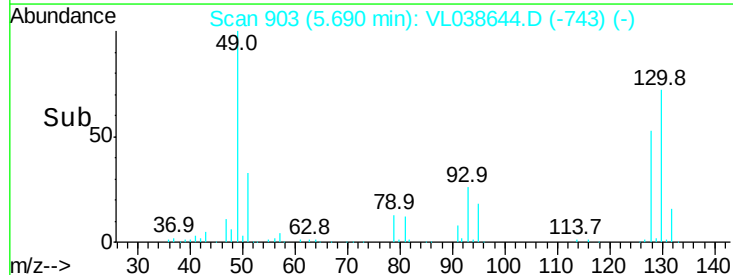
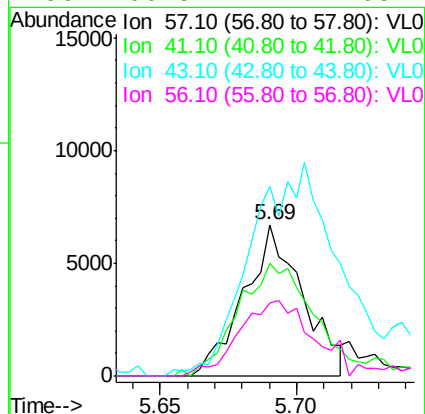
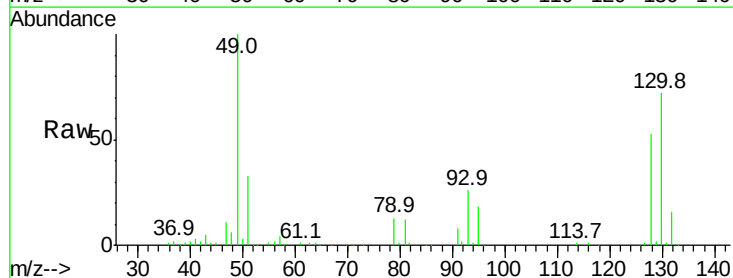
#25
 Ethyl Acetate
 Concen: 0.04 ppbv
 RT: 5.69
 Instrument: MSVOA_1
 Delta R.T.: 0.01
 Lab File: ClientSampleId:
 MDL-AIR-03-QT1-2022DL
 Acq: 18 Mar 2022 3:01

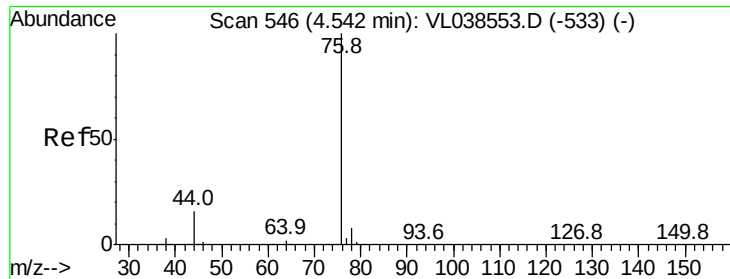
Tgt Ion:	43	Resp:	7878
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	0.0	8.2	12.4#
70	0.0	5.4	8.2#



#26
 Hexane
 Concen: 0.11 ppbv
 RT: 5.69 min Scan# 903
 Delta R.T.: 0.01 min
 Lab File: VL038644.D
 Acq: 18 Mar 2022 3:01

Tgt Ion:	57	Resp:	10034
Ion	Ratio	Lower	Upper
57	100		
41	105.0	67.8	101.6#
43	263.1	173.6	260.4#
56	66.5	42.2	63.2#





#27

Carbon Disulfide

Concen: 0.07 ppbv

RT: 4.56 Instrument:

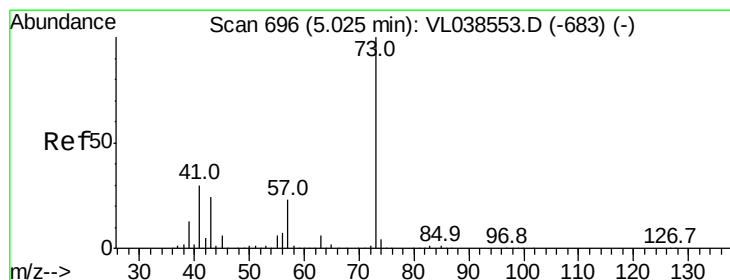
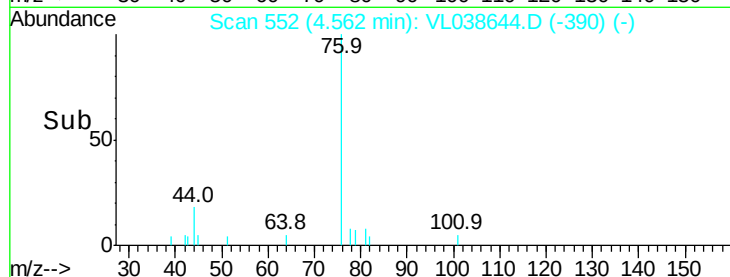
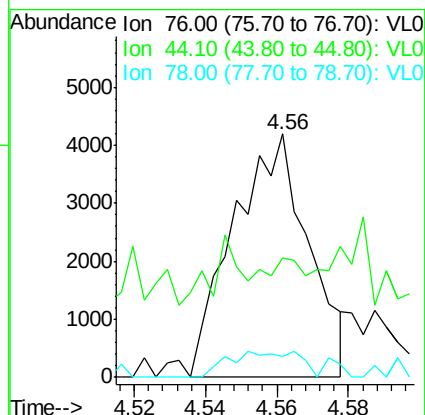
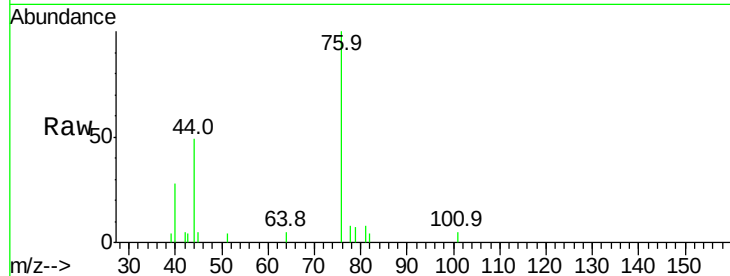
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

Tgt Ion: 76 Resp: 6118

Ion	Ratio	Lower	Upper
76	100		
44	0.0	12.9	19.3#
78	11.6	7.8	11.6



#28

Methyl tert-Butyl Ether

Concen: 0.12 ppbv

RT: 5.06 min Scan# 708

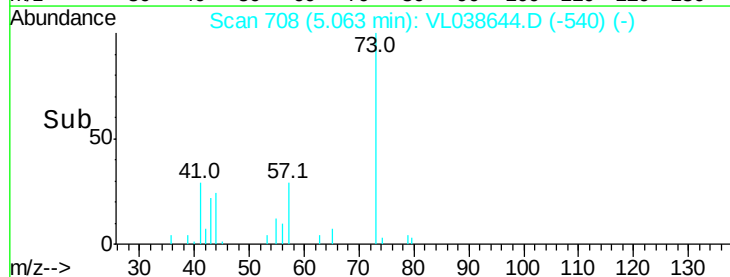
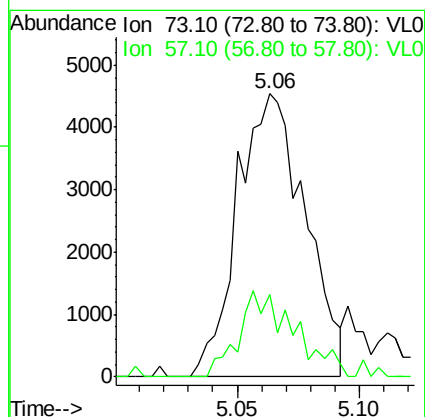
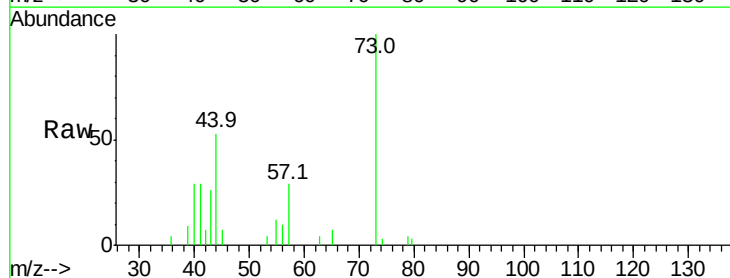
Delta R.T. 0.04 min

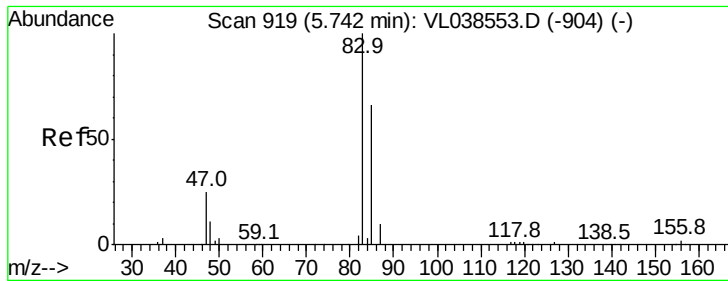
Lab File: VL038644.D

Acq: 18 Mar 2022 3:01

Tgt Ion: 73 Resp: 8749

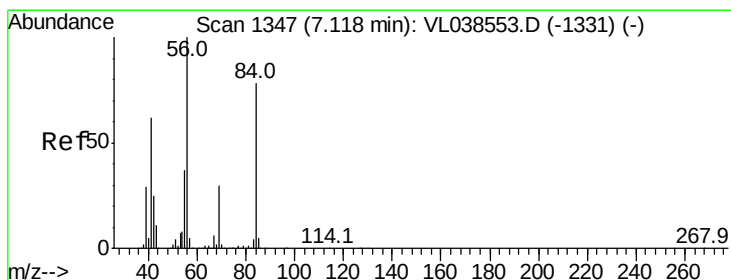
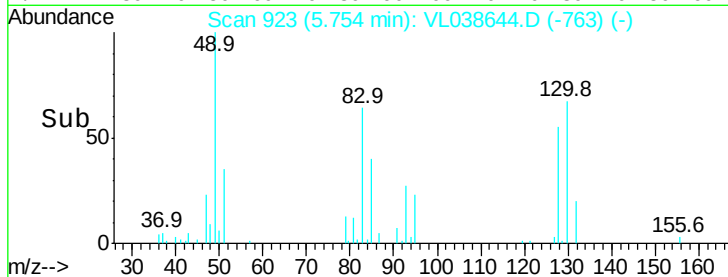
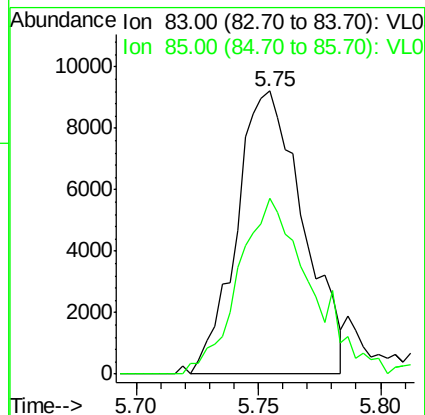
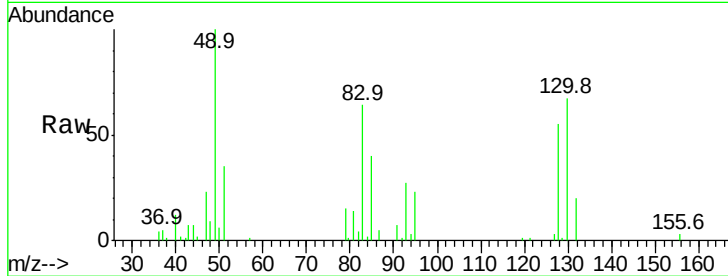
Ion	Ratio	Lower	Upper
73	100		
57	25.4	18.8	28.2





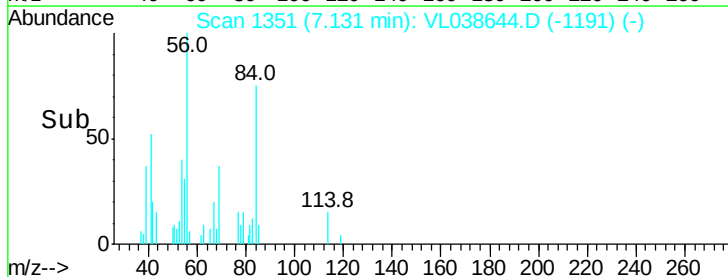
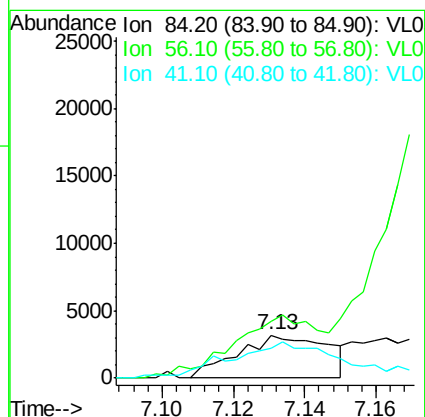
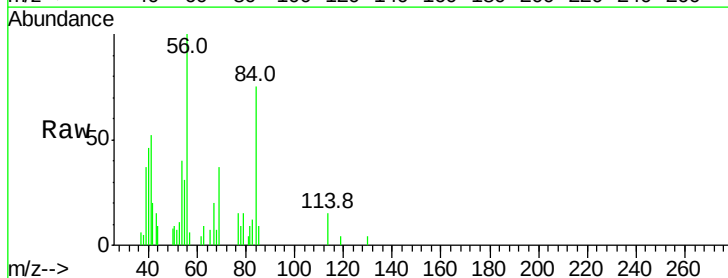
#29
Chloroform
Concen: 0.12 ppbv
RT: 5.75 Instrument: MSVOA_1
Delta R.T.: ClientSampleId:
Lab File: MDL-AIR-03-QT1-2022DL
Acq: 18 Mar 2022 3:01

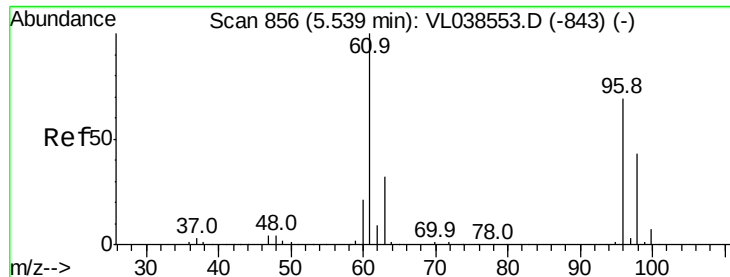
Tgt Ion: 83 Resp: 17474
Ion Ratio Lower Upper
83 100
85 58.4 52.8 79.2



#30
Cyclohexane
Concen: 0.07 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. 0.01 min
Lab File: VL038644.D
Acq: 18 Mar 2022 3:01

Tgt Ion: 84 Resp: 5575
Ion Ratio Lower Upper
84 100
56 0.0 111.4 167.0#
41 113.5 65.5 98.3#





#31

cis-1,2-Dichloroethene

Concen: 0.10 ppbv

RT: 5.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

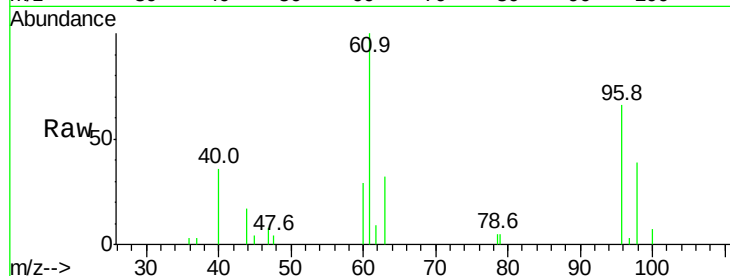
Tgt Ion: 61 Resp: 8718

Ion Ratio Lower Upper

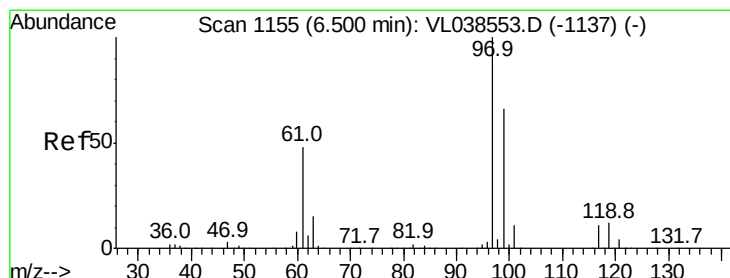
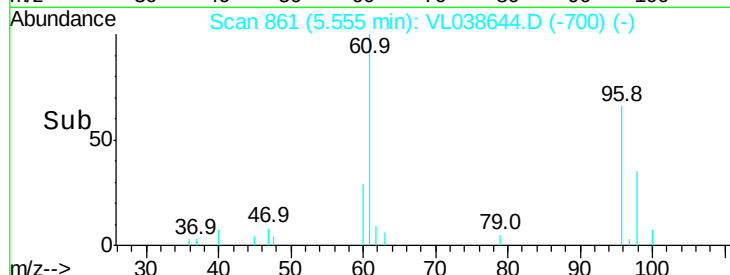
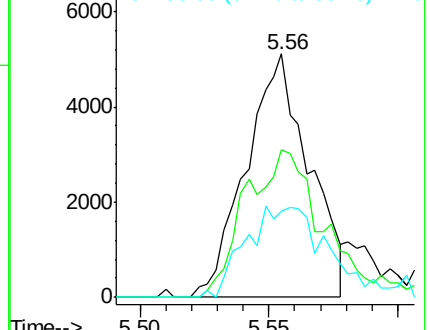
61 100

96 60.4 55.2 82.8

98 35.3 34.2 51.4



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: 0.06 ppbv

RT: 6.52 min Scan# 1161

Delta R.T. 0.02 min

Lab File: VL038644.D

Acq: 18 Mar 2022 3:01

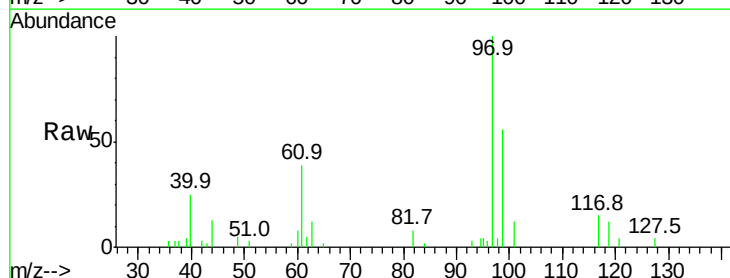
Tgt Ion: 97 Resp: 8880

Ion Ratio Lower Upper

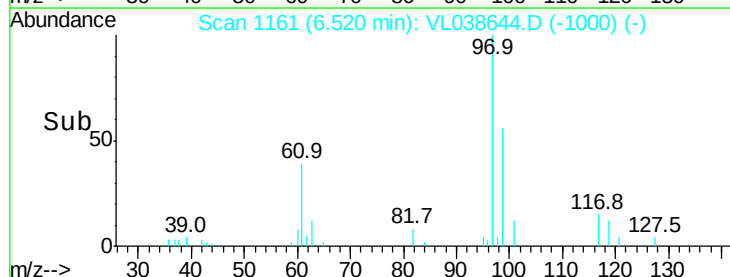
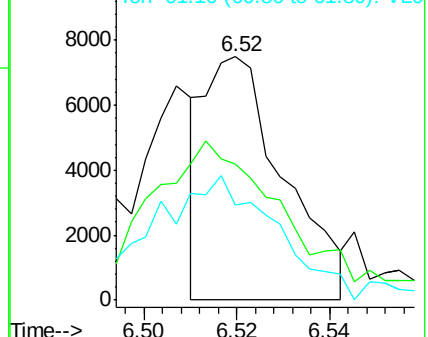
97 100

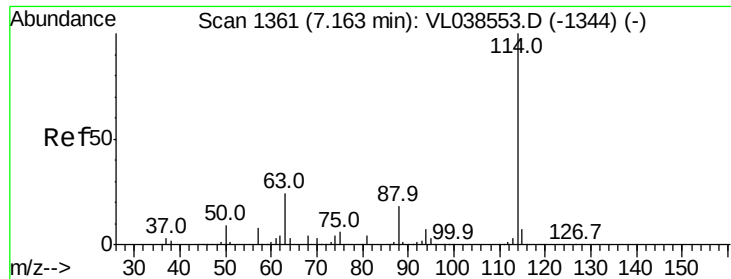
99 120.3 52.1 78.1#

61 86.6 37.7 56.5#



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

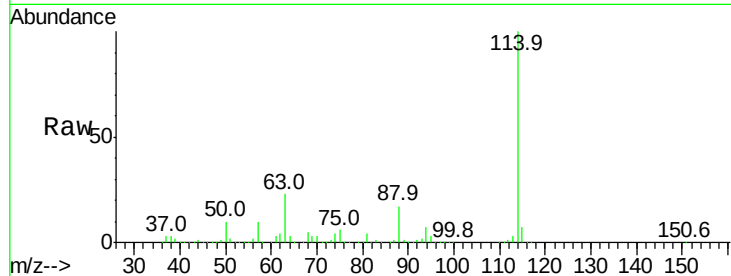




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL-AIR-03-QT1-2022DL
 Acq: 18 Mar 2022 3:01

Tgt Ion:114 Resp: 2091438

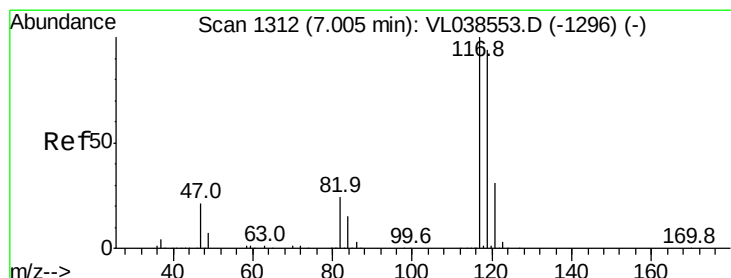
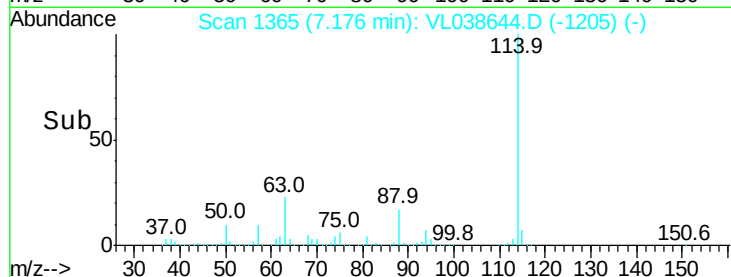
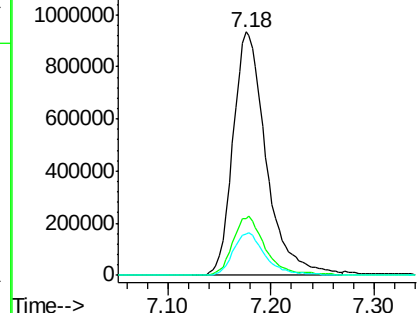
Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.6	29.4
88	17.5	13.9	20.9



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): V

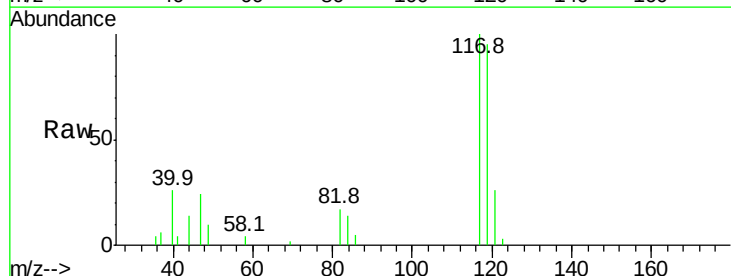
Ion 88.10 (87.80 to 88.80): V



#35
 Carbon Tetrachloride
 Concen: 0.06 ppbv
 RT: 7.02 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VL038644.D
 Acq: 18 Mar 2022 3:01

Tgt Ion:117 Resp: 8334

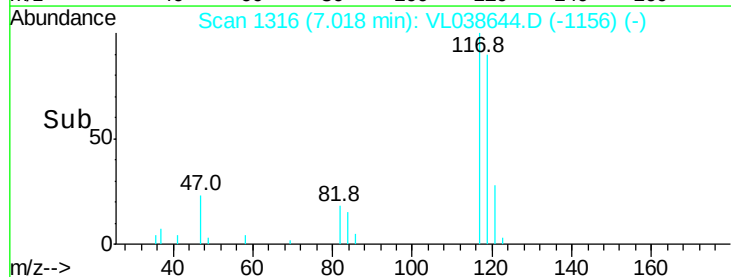
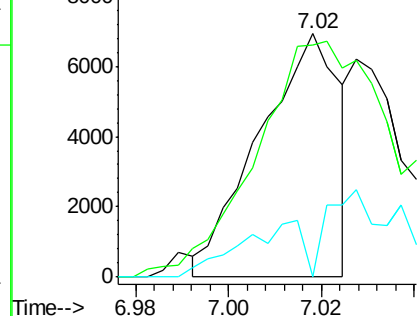
Ion	Ratio	Lower	Upper
117	100		
119	91.6	75.2	112.8
121	0.0	24.8	37.2#

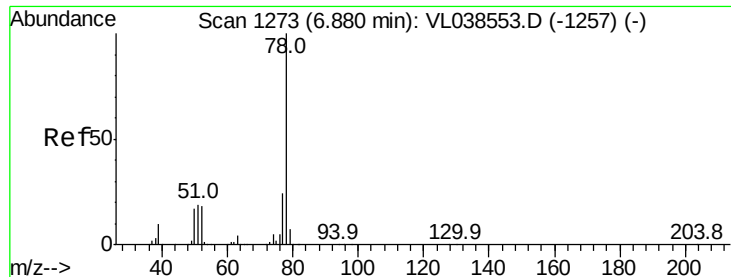


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.05 ppbv

RT: 6.90

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Mar 2022 3:01

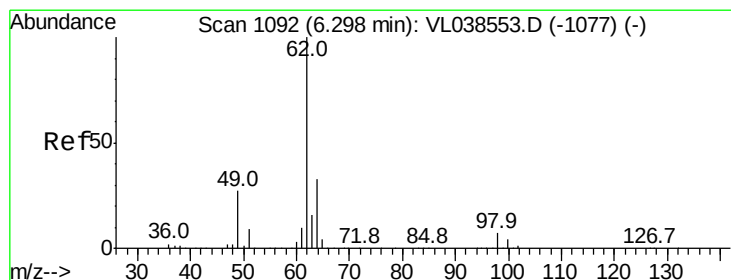
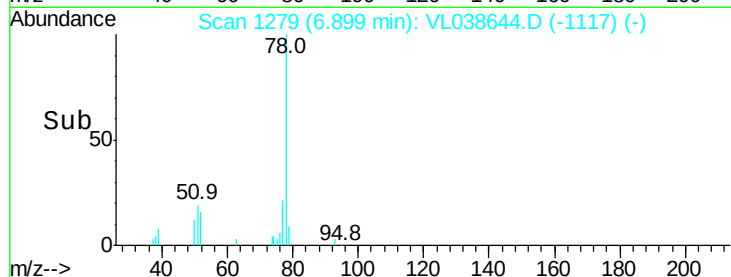
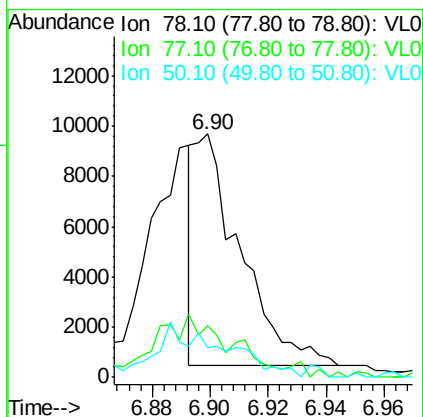
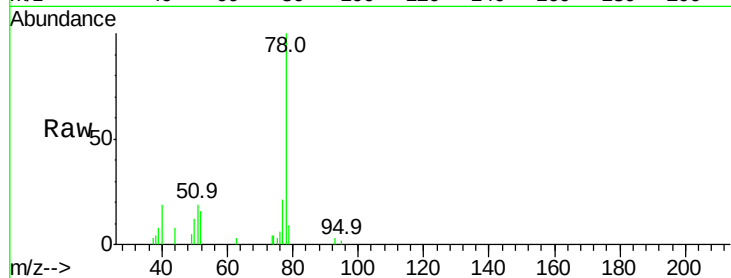
Tgt Ion: 78 Resp: 10025

Ion Ratio Lower Upper

78 100

77 20.0 19.0 28.4

50 12.8 13.9 20.9#



#37

1,2-Dichloroethane

Concen: 0.08 ppbv

RT: 6.31 min Scan# 1096

Delta R.T. 0.01 min

Lab File: VL038644.D

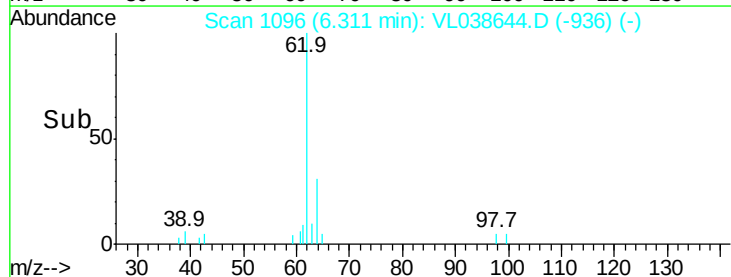
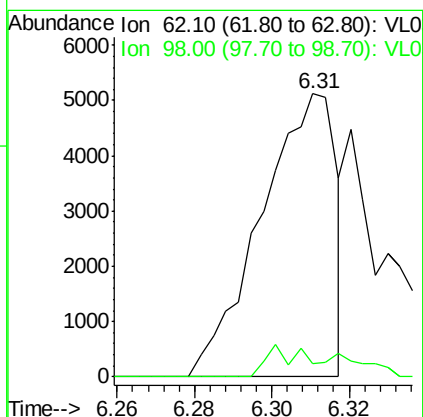
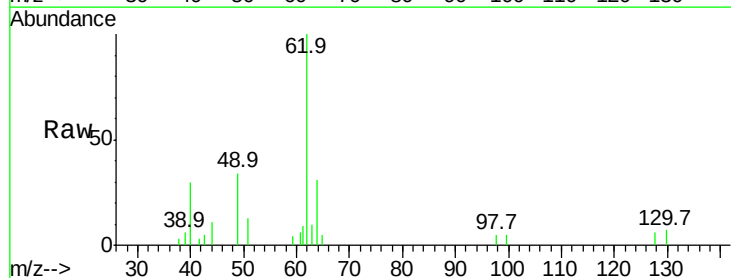
Acq: 18 Mar 2022 3:01

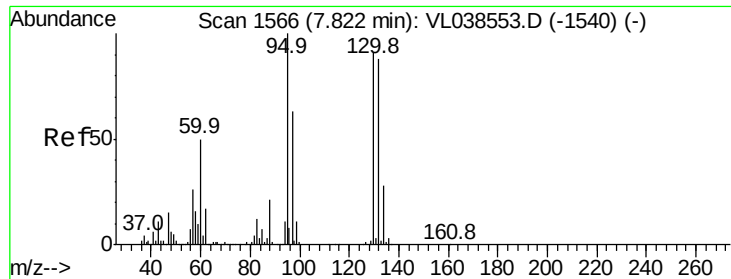
Tgt Ion: 62 Resp: 6895

Ion Ratio Lower Upper

62 100

98 9.8 5.7 8.5#





#38

Trichloroethene

Concen: 0.07 ppbv

RT: 7.83 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

Tgt Ion:130 Resp: 5255

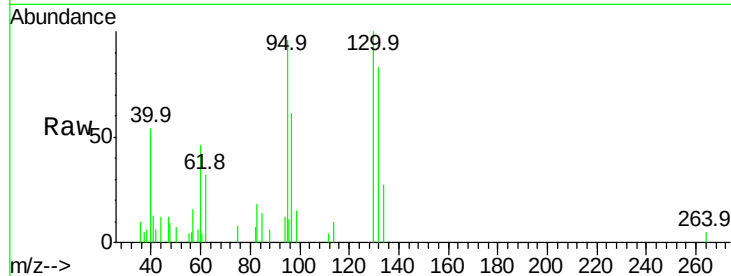
Ion Ratio Lower Upper

130 100

95 69.7 87.8 131.8#

132 59.8 77.5 116.3#

97 36.1 55.4 83.2#

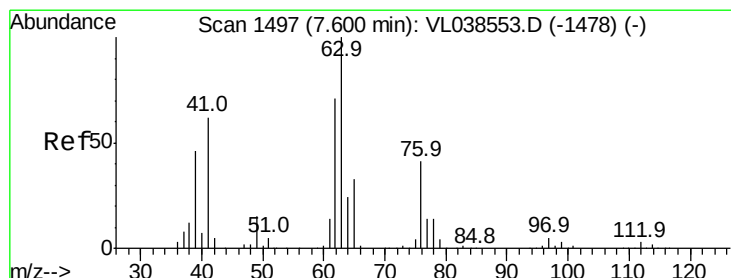
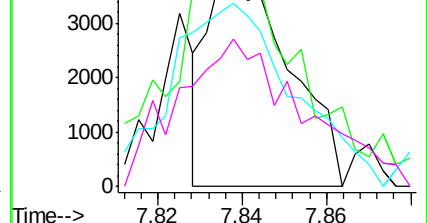
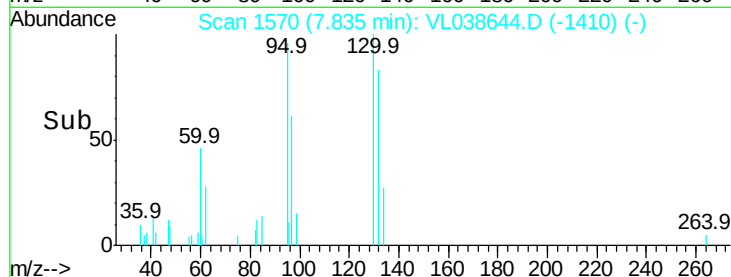


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.07 ppbv

RT: 7.61 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VL038644.D

Acq: 18 Mar 2022 3:01

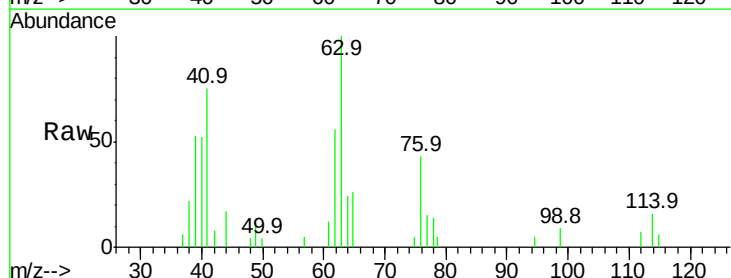
Tgt Ion: 63 Resp: 4973

Ion Ratio Lower Upper

63 100

41 60.7 49.8 74.6

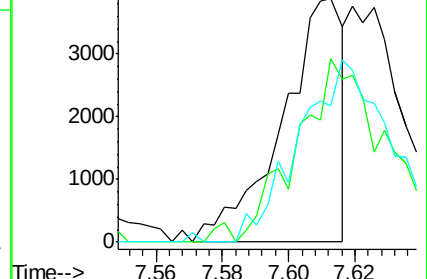
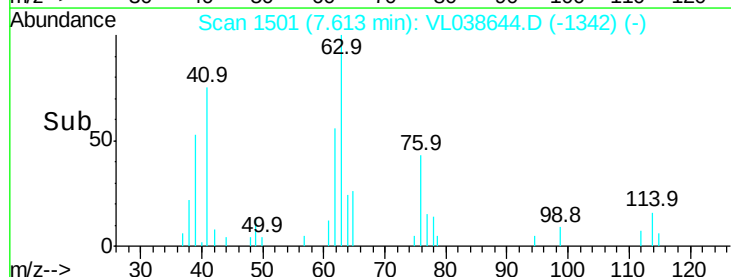
62 42.0 56.7 85.1#

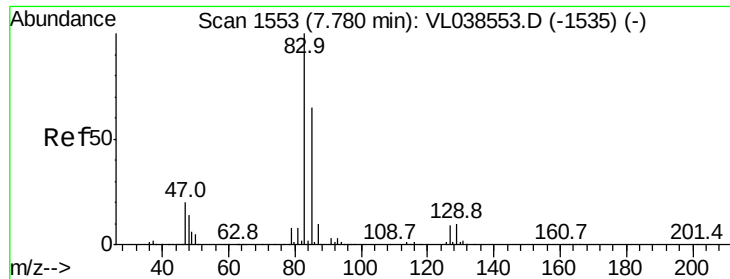


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.04 ppbv

RT: 7.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

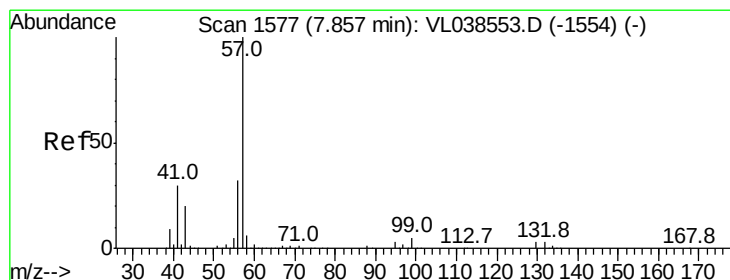
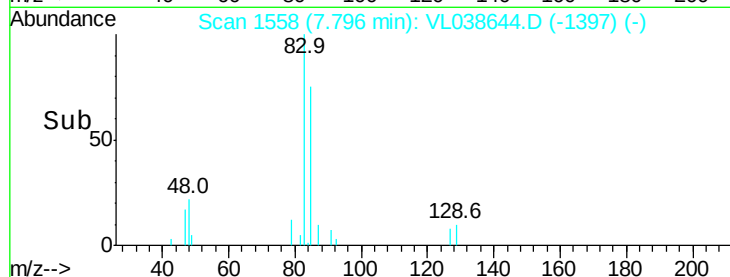
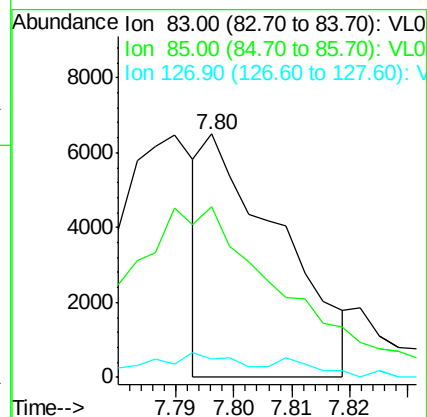
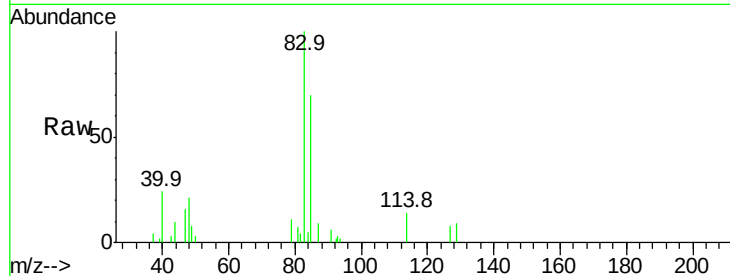
Tgt Ion: 83 Resp: 5985

Ion Ratio Lower Upper

83 100

85 68.8 51.7 77.5

127 7.0 6.9 10.3



#44

2,2,4-Trimethylpentane

Concen: 0.02 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. 0.02 min

Lab File: VL038644.D

Acq: 18 Mar 2022 3:01

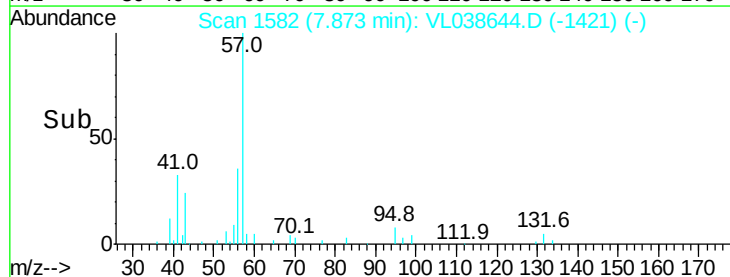
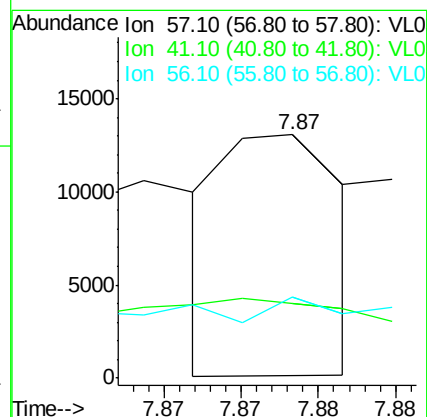
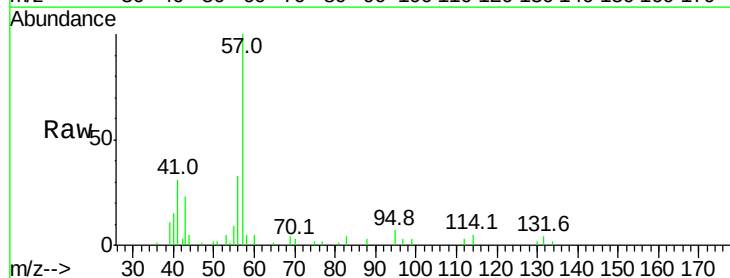
Tgt Ion: 57 Resp: 6940

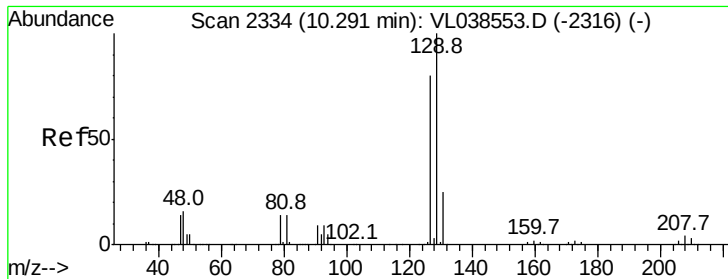
Ion Ratio Lower Upper

57 100

41 165.2 24.0 36.0#

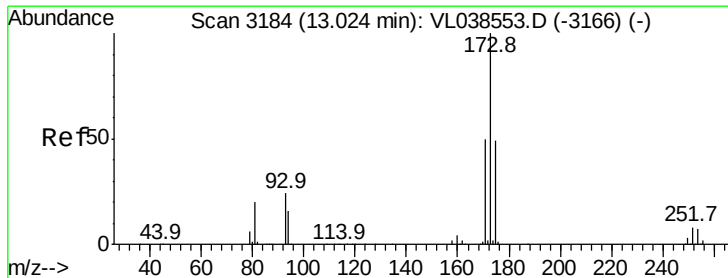
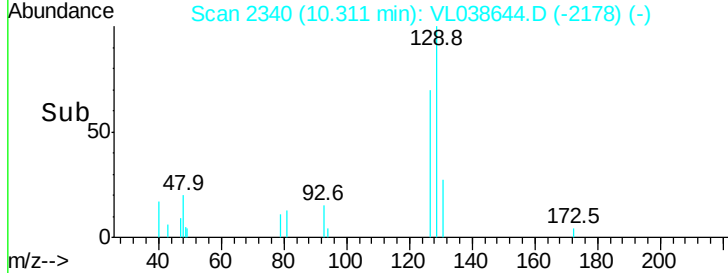
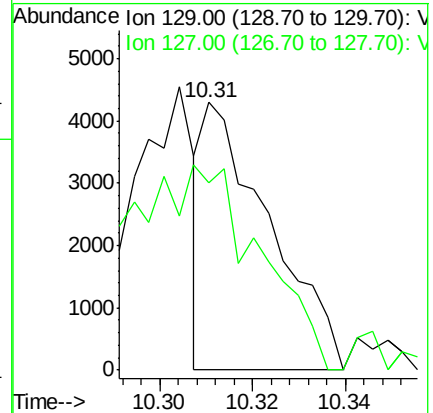
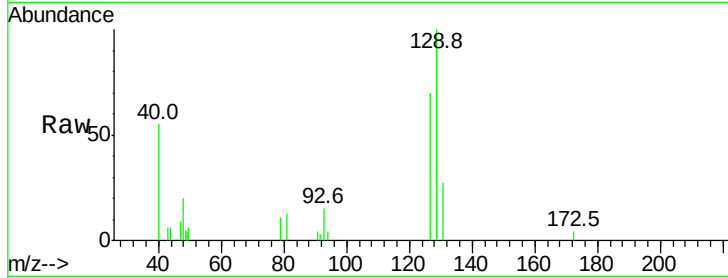
56 151.7 25.6 38.4#





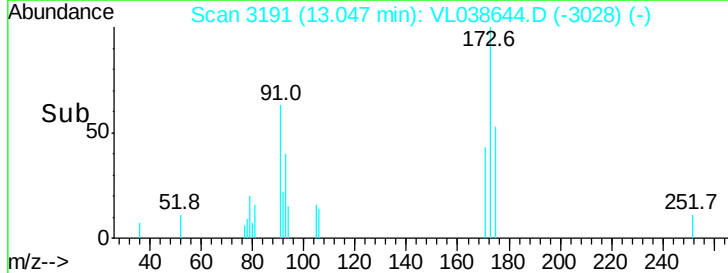
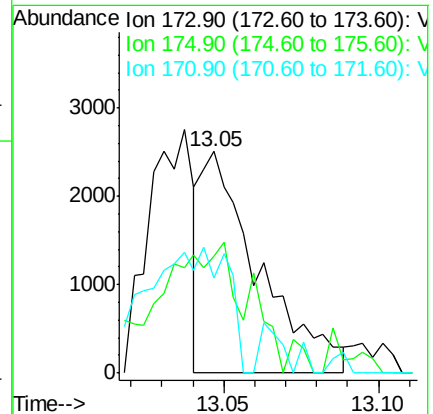
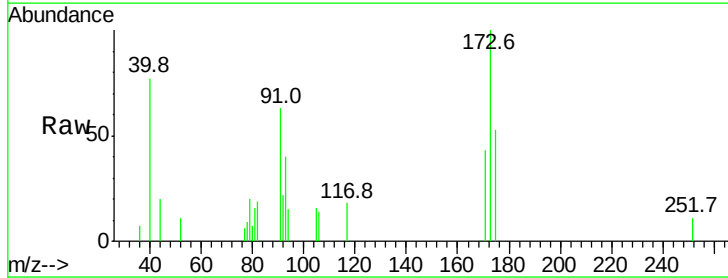
#48
 Dibromochloromethane
 Concen: 0.04 ppbv
 RT: 10.31 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 18 Mar 2022 3:01

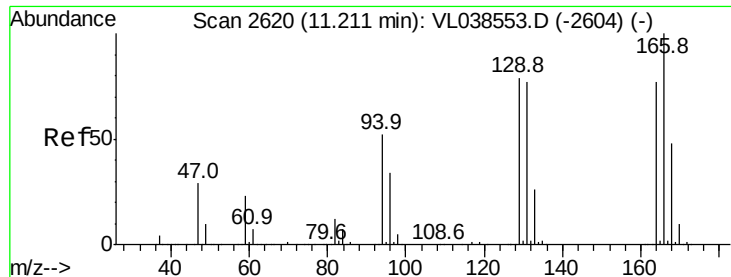
Tgt Ion:129 Resp: 4261
 Ion Ratio Lower Upper
 129 100
 127 169.7 39.5 118.3#



#49
 Bromoform
 Concen: 0.04 ppbv
 RT: 13.05 min Scan# 3191
 Delta R.T. 0.02 min
 Lab File: VL038644.D
 Acq: 18 Mar 2022 3:01

Tgt Ion:173 Resp: 3247
 Ion Ratio Lower Upper
 173 100
 175 102.2 40.7 61.1#
 171 95.8 42.9 64.3#





#52

Tetrachloroethene

Concen: 0.06 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Mar 2022 3:01

Tgt Ion: 164 Resp: 4386

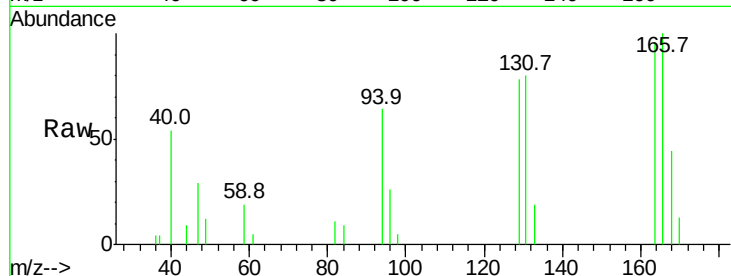
Ion Ratio Lower Upper

164 100

166 95.8 103.4 155.2#

129 81.3 81.3 121.9

131 83.8 79.8 119.8

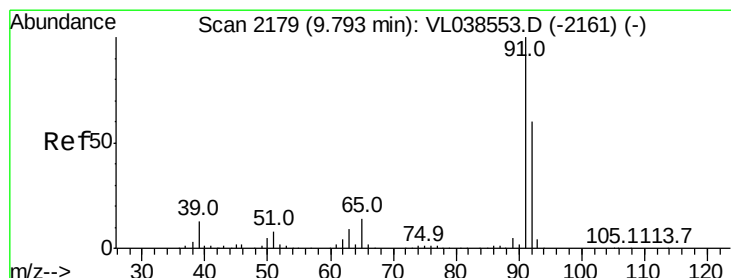
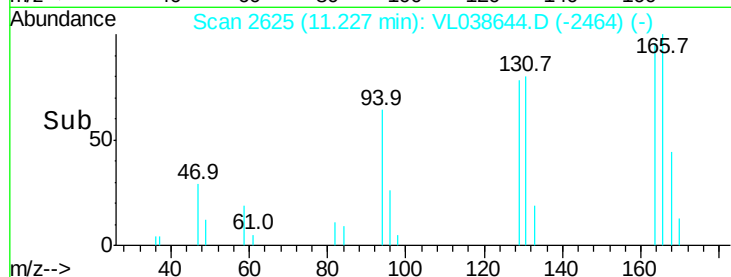
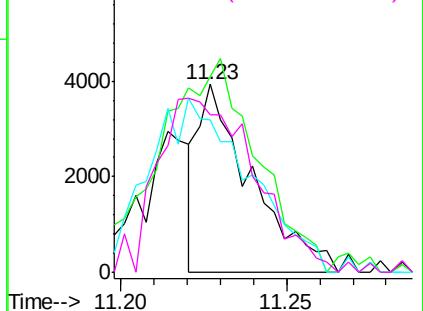


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.08 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.01 min

Lab File: VL038644.D

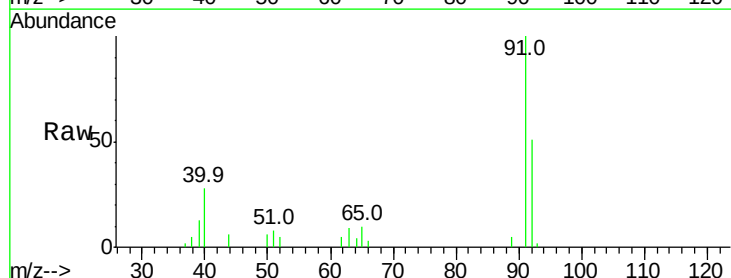
Acq: 18 Mar 2022 3:01

Tgt Ion: 91 Resp: 16945

Ion Ratio Lower Upper

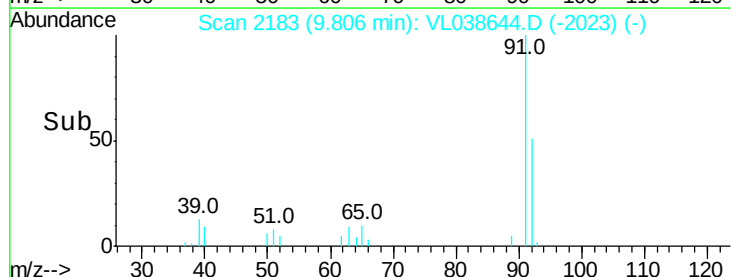
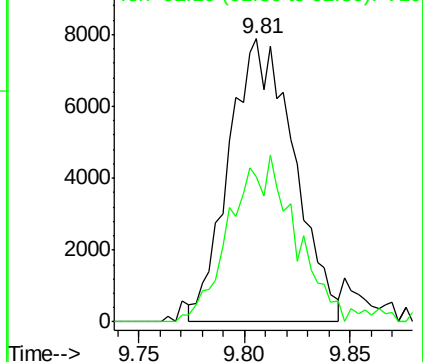
91 100

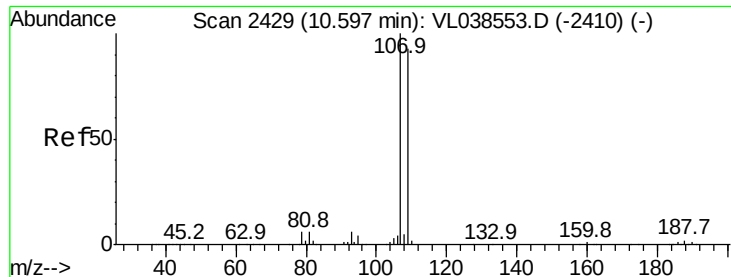
92 60.7 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

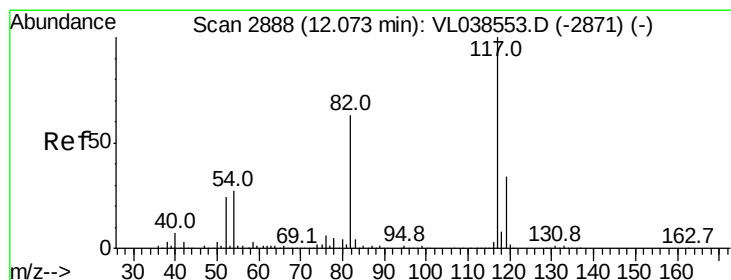
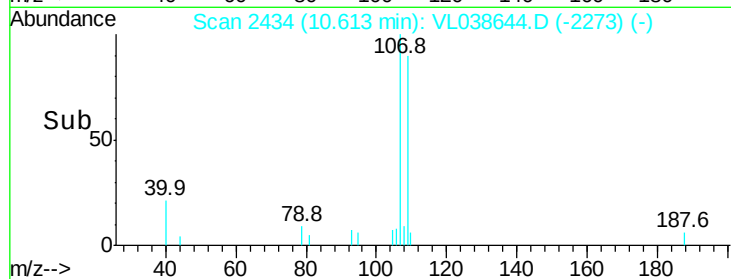
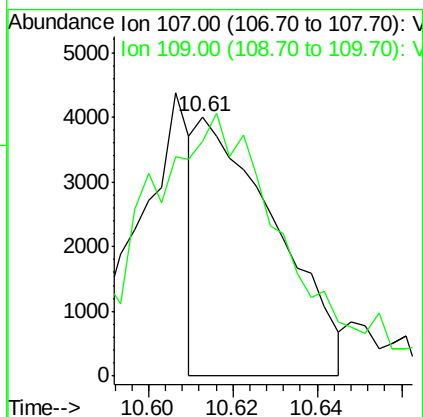
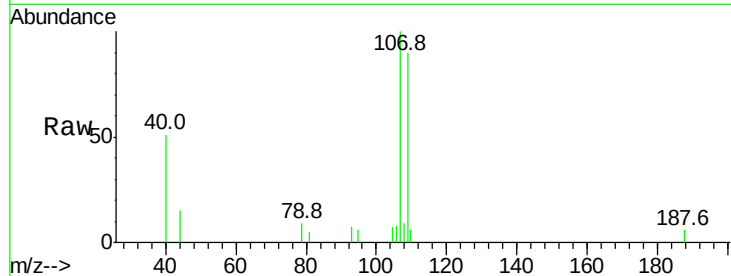
Ion 92.10 (91.80 to 92.80): VL0





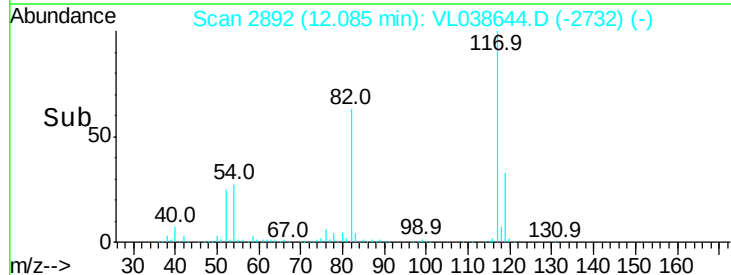
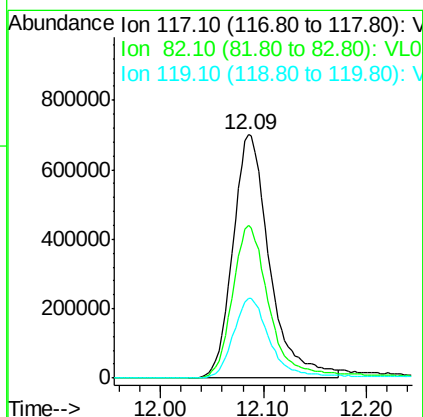
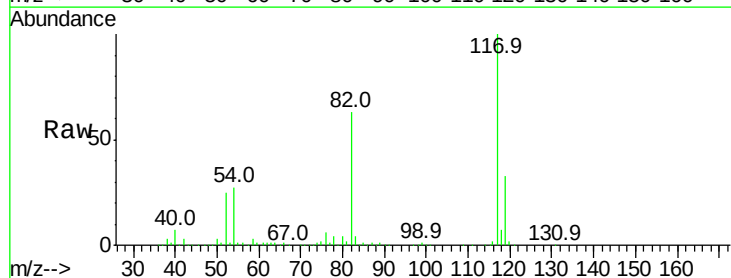
#54
 1,2-Dibromoethane
 Concen: 0.05 ppbv
 RT: 10.61 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 18 Mar 2022 3:01

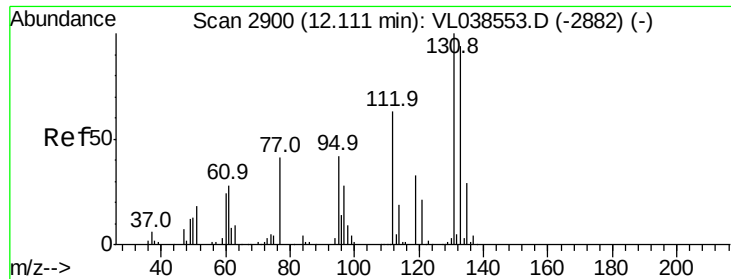
Tgt Ion: 107 Resp: 5182
 Ion Ratio Lower Upper
 107 100
 109 83.4 74.6 112.0



#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.09 min Scan# 2892
 Delta R.T. 0.01 min
 Lab File: VL038644.D
 Acq: 18 Mar 2022 3:01

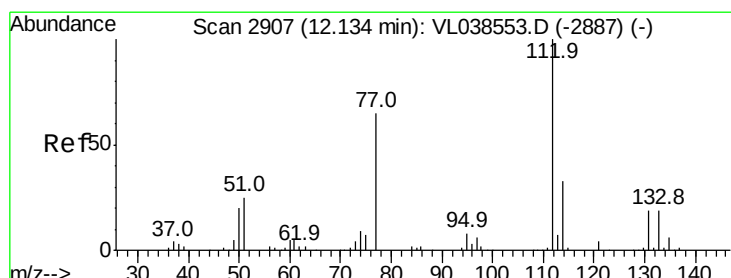
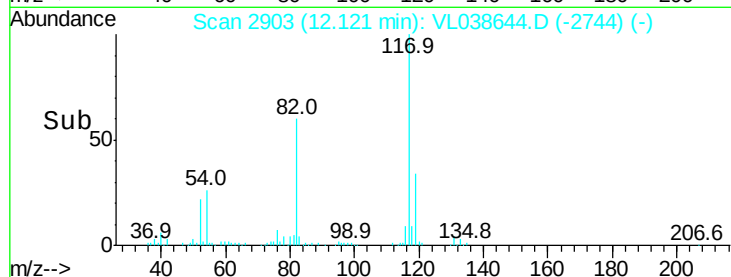
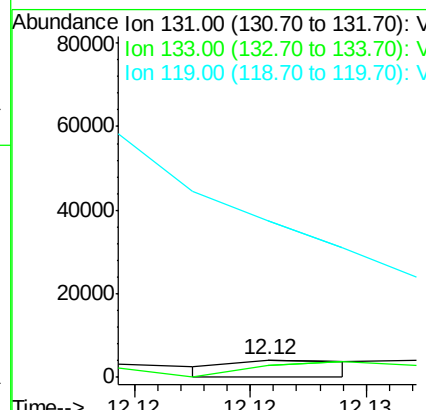
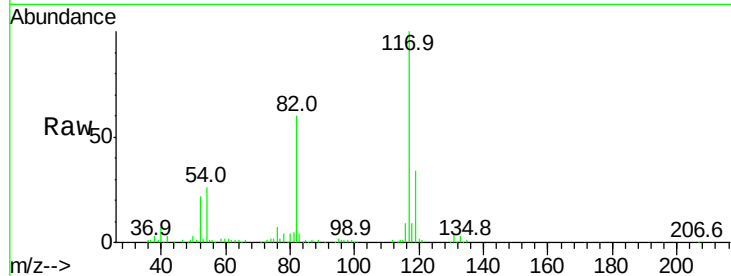
Tgt Ion: 117 Resp: 1736243
 Ion Ratio Lower Upper
 117 100
 82 66.5 52.5 78.7
 119 34.4 46.4 69.6#





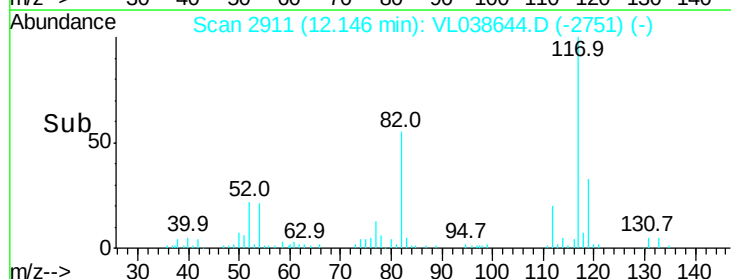
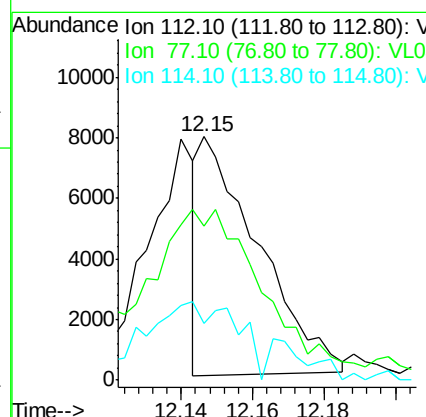
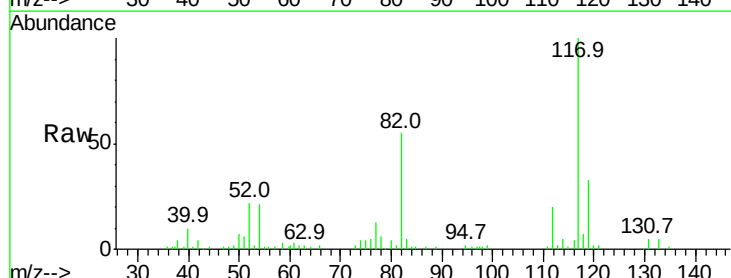
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.02 ppbv
 RT: 12.12 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 MDL-AIR-03-QT1-2022DL
 Acq: 18 Mar 2022 3:01

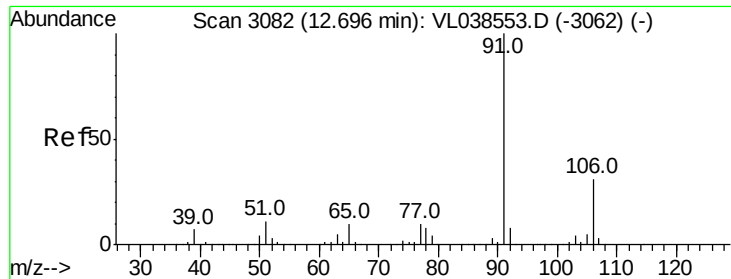
Tgt Ion:131 Resp: 1554
 Ion Ratio Lower Upper
 131 100
 133 502.6 78.0 117.0#
 119 0.0 53.1 79.7#



#57
 Chlorobenzene
 Concen: 0.07 ppbv
 RT: 12.15 min Scan# 2911
 Delta R.T. 0.01 min
 Lab File: VL038644.D
 Acq: 18 Mar 2022 3:01

Tgt Ion:112 Resp: 8977
 Ion Ratio Lower Upper
 112 100
 77 55.2 52.5 78.7
 114 26.2 30.0 36.6#





#58

Ethyl Benzene

Concen: 0.05 ppbv

RT: 12.71

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

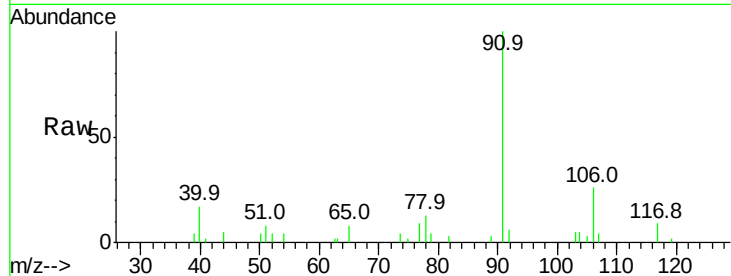
Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

Tgt Ion: 91 Resp: 10356

Ion Ratio Lower Upper

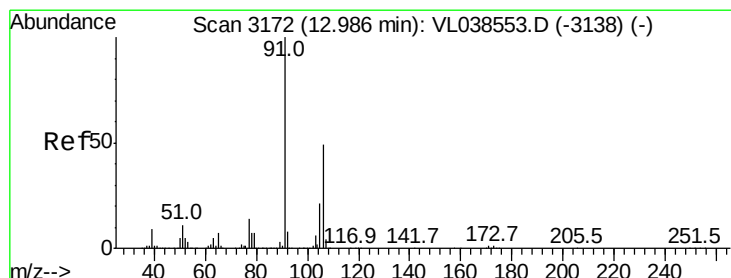
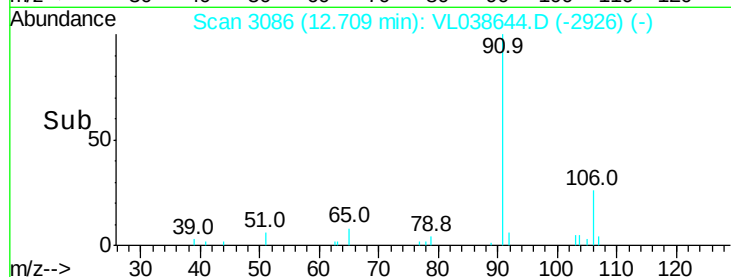
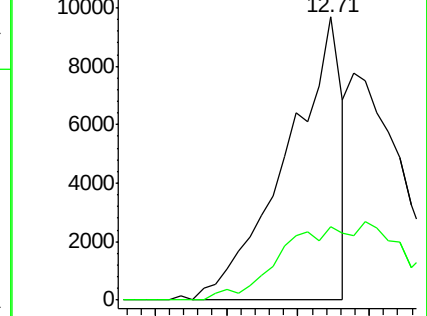
91 100

106 26.0 24.6 37.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.06 ppbv

RT: 13.00 min Scan# 3176

Delta R.T. 0.01 min

Lab File: VL038644.D

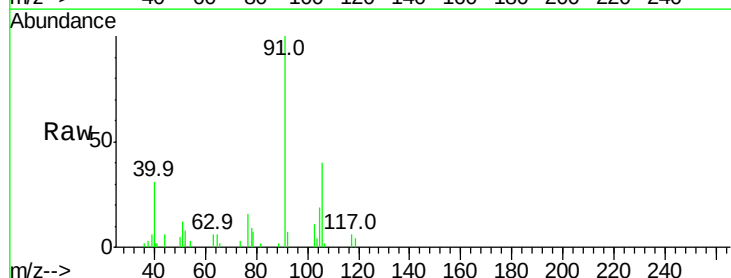
Acq: 18 Mar 2022 3:01

Tgt Ion: 91 Resp: 12416

Ion Ratio Lower Upper

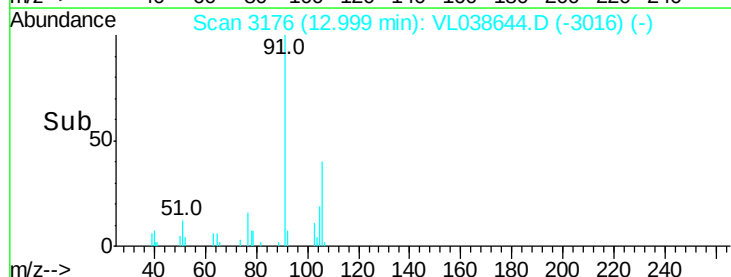
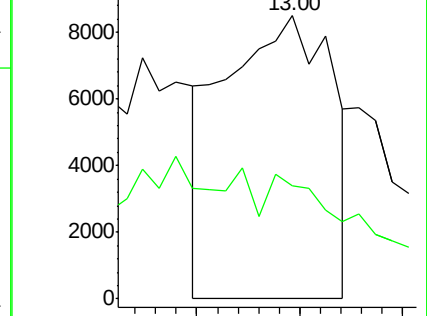
91 100

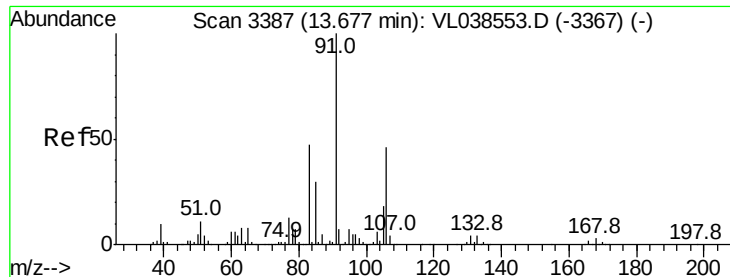
106 0.0 37.1 55.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

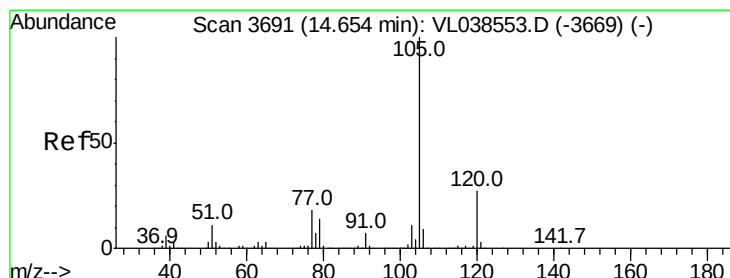
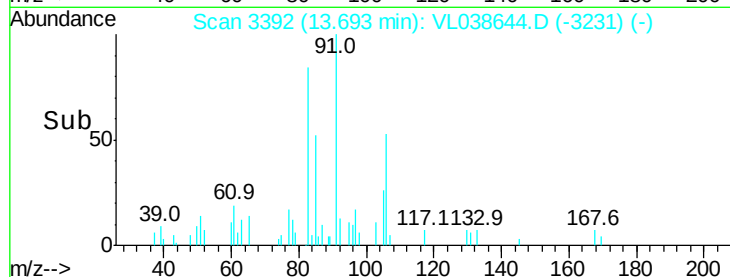
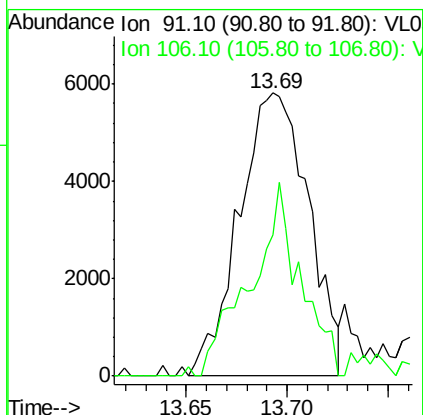
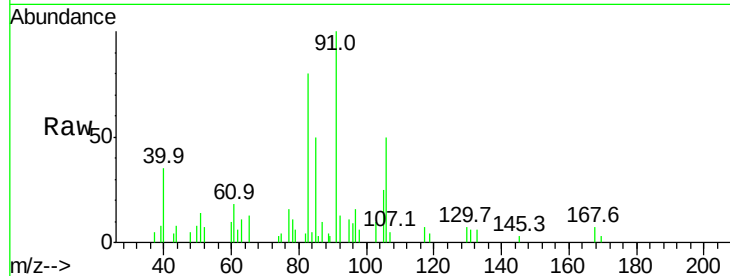
Ion 106.10 (105.80 to 106.80): V





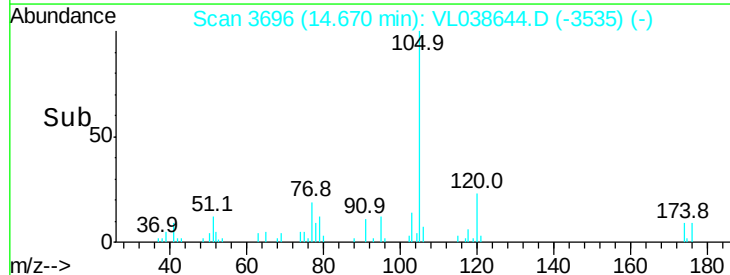
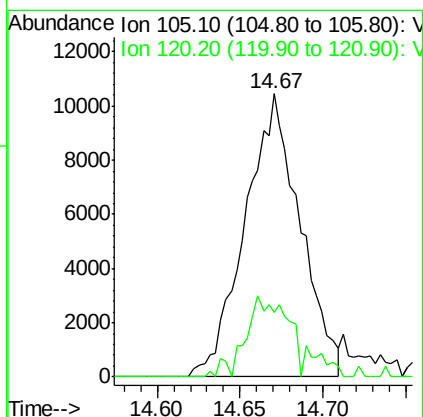
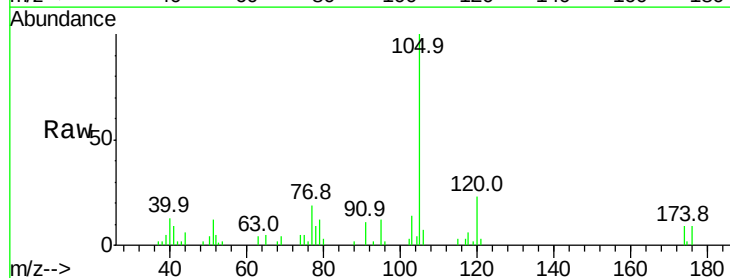
#60
o-Xylene
Concen: 0.08 ppbv
RT: 13.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

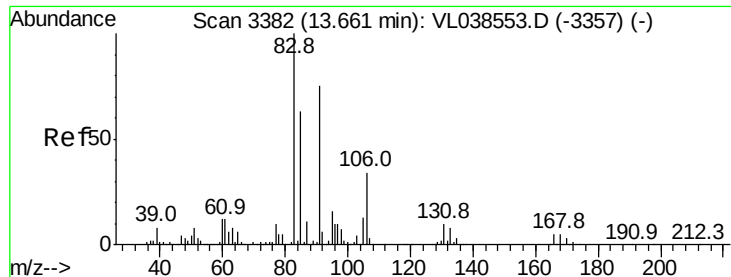
Tgt Ion: 91 Resp: 13914
Ion Ratio Lower Upper
91 100
106 54.2 23.5 70.6



#62
Isopropylbenzene
Concen: 0.10 ppbv
RT: 14.67 min Scan# 3696
Delta R.T. 0.02 min
Lab File: VL038644.D
Acq: 18 Mar 2022 3:01

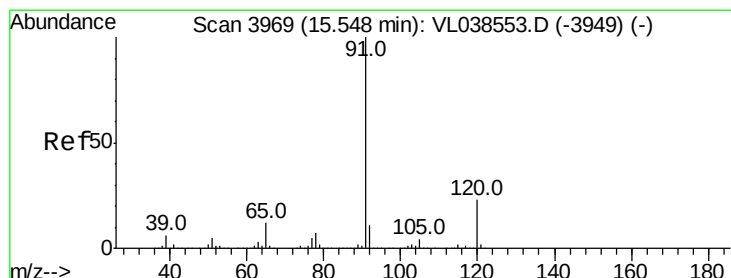
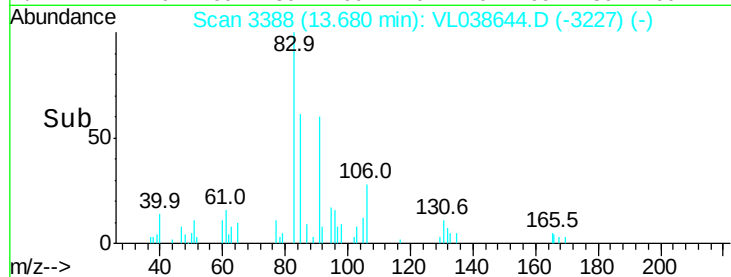
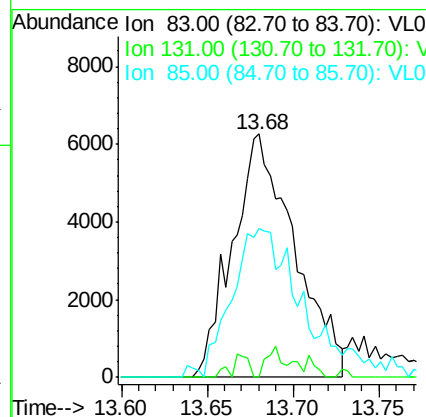
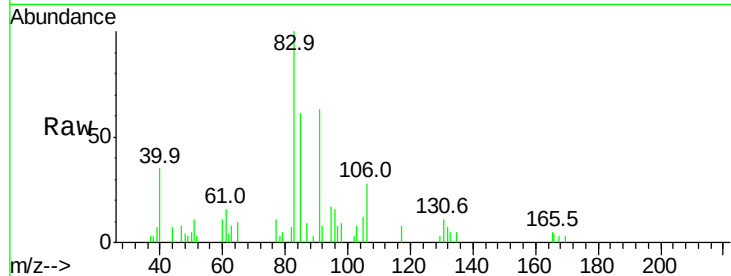
Tgt Ion: 105 Resp: 24111
Ion Ratio Lower Upper
105 100
120 25.7 21.2 31.8





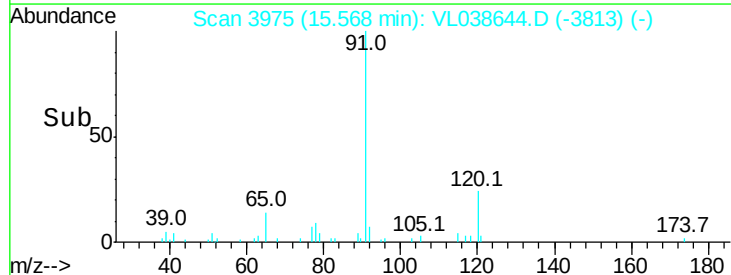
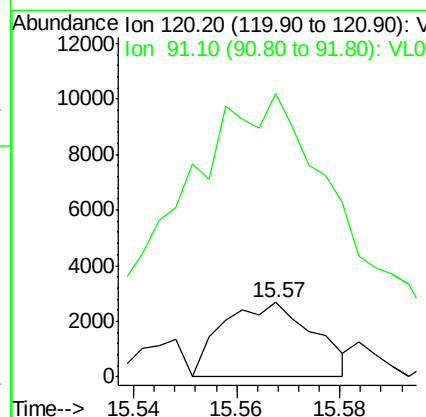
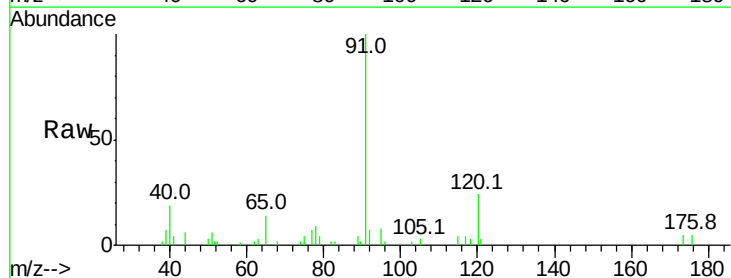
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.10 ppbv
 RT: 13.68 min
 Delta R.T. MSVOA.L
 Lab File: ClientSampleId:
 Acq: 18 Mar 2022 3:01

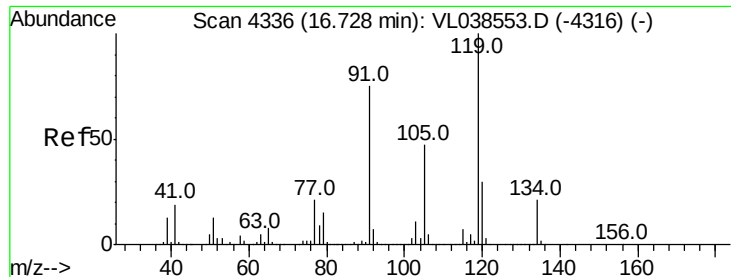
Tgt Ion: 83 Resp: 15715
 Ion Ratio Lower Upper
 83 100
 131 6.0 4.7 14.1
 85 73.7 32.6 98.0



#64
 n-propylbenzene
 Concen: 0.05 ppbv
 RT: 15.57 min Scan# 3975
 Delta R.T. 0.02 min
 Lab File: VL038644.D
 Acq: 18 Mar 2022 3:01

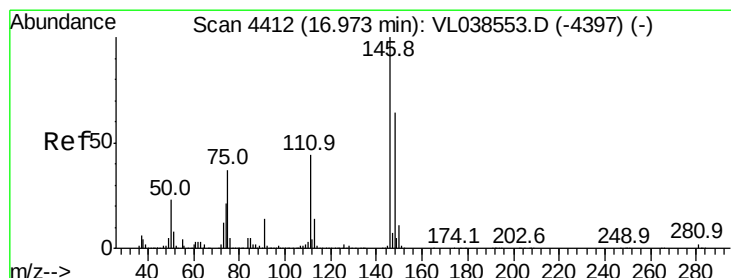
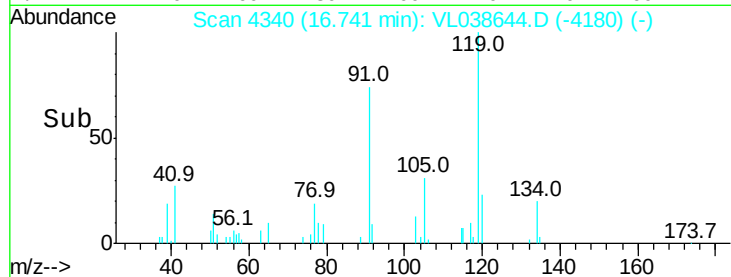
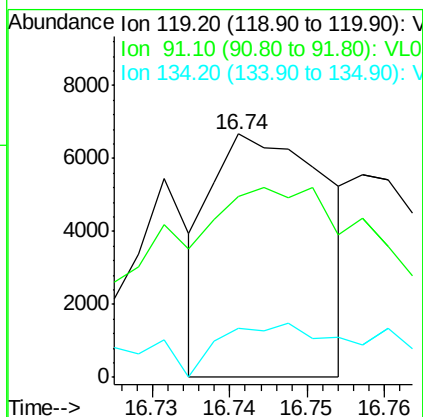
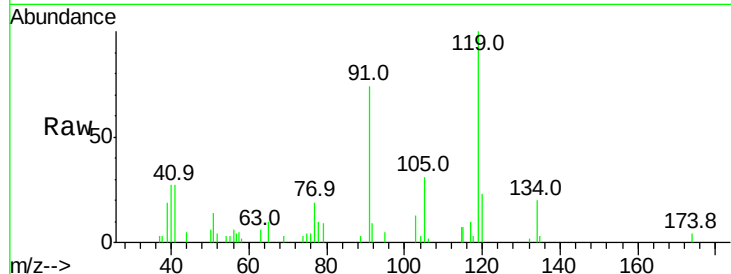
Tgt Ion: 120 Resp: 3254
 Ion Ratio Lower Upper
 120 100
 91 763.0 374.2 561.2#





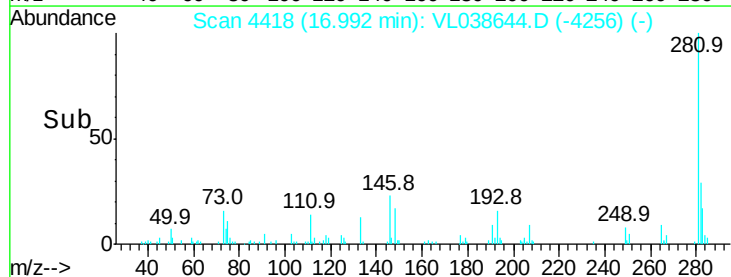
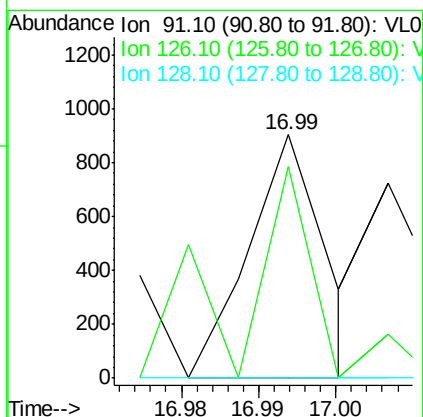
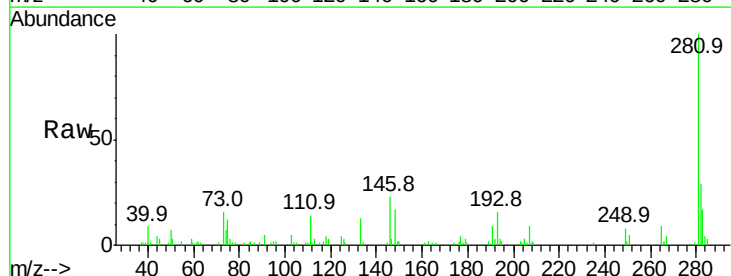
#65
 tert-Butylbenzene
 Concen: 0.03 ppbv
 RT: 16.74 min
 Instrument: MSVOA_1
 Delta R.T.: 0.01 min
 Client Sample ID:
 Lab File: MDL-AIR-03-QT1-2022DL
 Acq: 18 Mar 2022 3:01

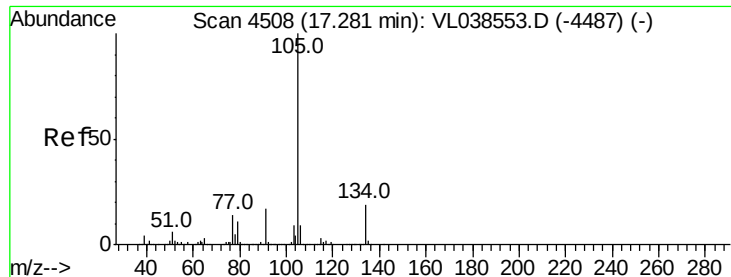
Tgt Ion: 119 Resp: 6858
 Ion Ratio Lower Upper
 119 100
 91 229.7 61.2 91.8#
 134 47.8 16.2 24.2#



#66
 Benzyl Chloride
 Concen: 0.02 ppbv
 RT: 16.99 min Scan# 4418
 Delta R.T.: 0.02 min
 Lab File: VL038644.D
 Acq: 18 Mar 2022 3:01

Tgt Ion: 91 Resp: 309
 Ion Ratio Lower Upper
 91 100
 126 201.9 14.1 21.1#
 128 0.0 5.1 7.7#





#67

sec-Butylbenzene

Concen: 0.08 ppbv

RT: 17.29

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

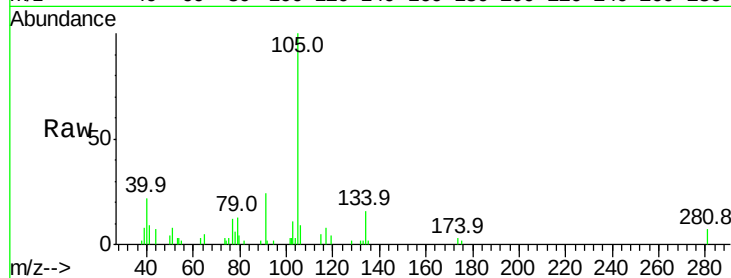
Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

Tgt Ion: 105 Resp: 24493

Ion Ratio Lower Upper

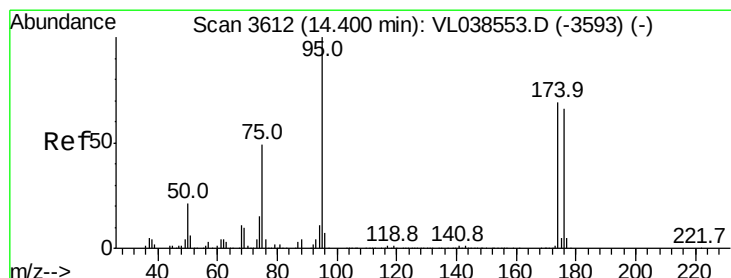
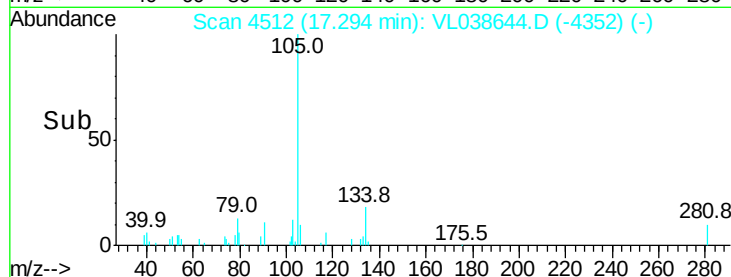
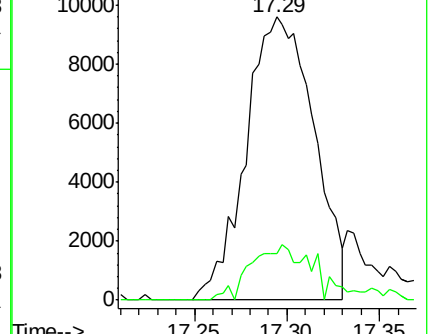
105 100

134 18.4 15.0 22.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.04 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. 0.02 min

Lab File: VL038644.D

Acq: 18 Mar 2022 3:01

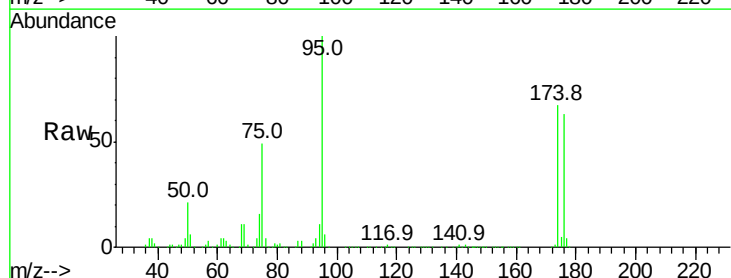
Tgt Ion: 95 Resp: 1193969

Ion Ratio Lower Upper

95 100

174 75.4 56.2 84.4

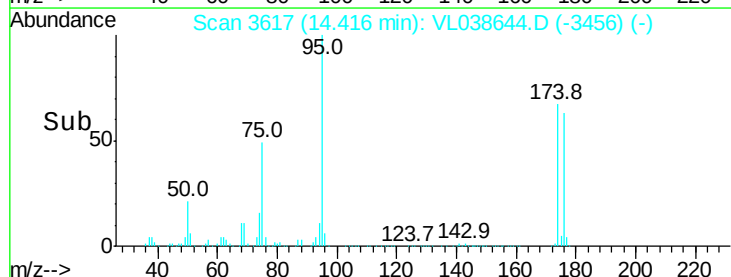
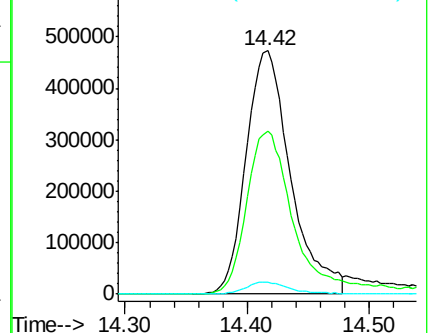
175 4.9 4.2 6.2

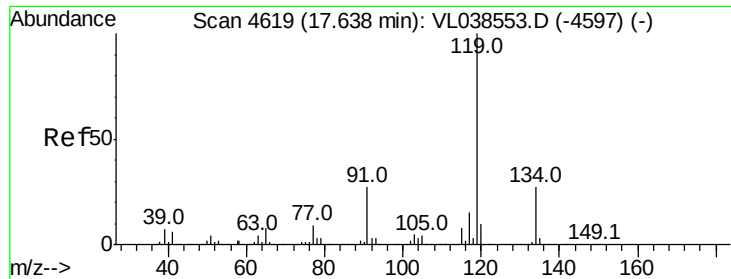


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

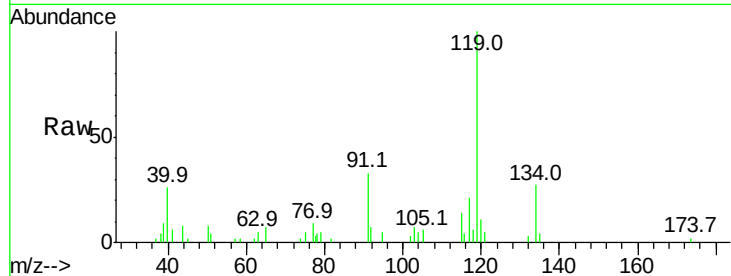
Ion 175.00 (174.70 to 175.70): V



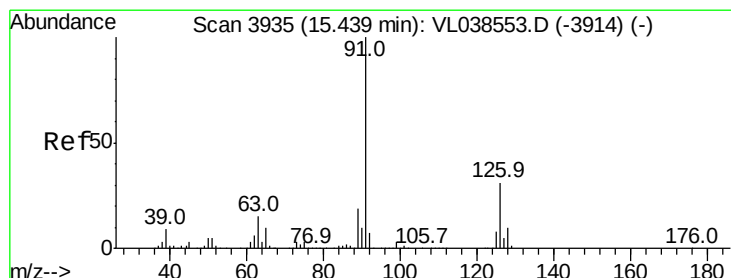
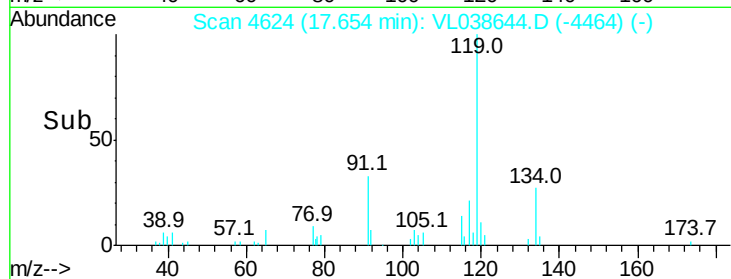
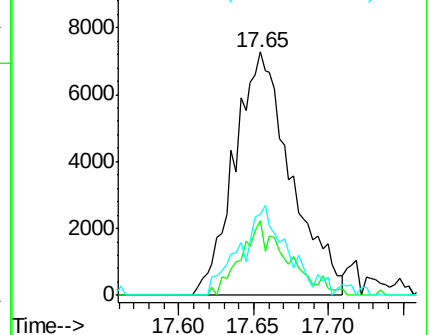


#69
 p-Isopropyltoluene
 Concen: 0.07 ppbv
 RT: 17.65 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 18 Mar 2022 3:01

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.9	31.3
91	32.6	21.1	31.7#

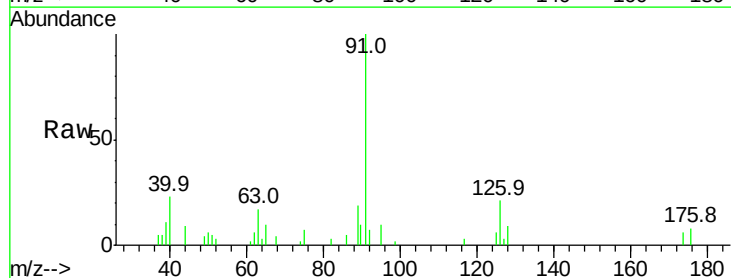


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

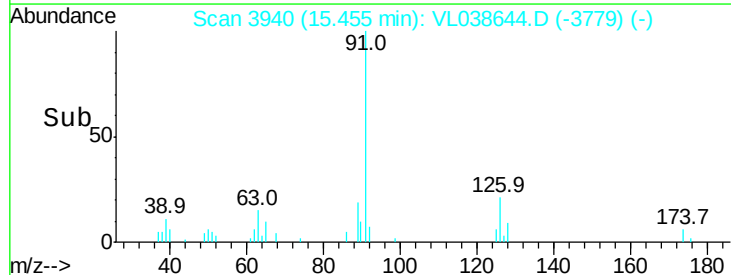
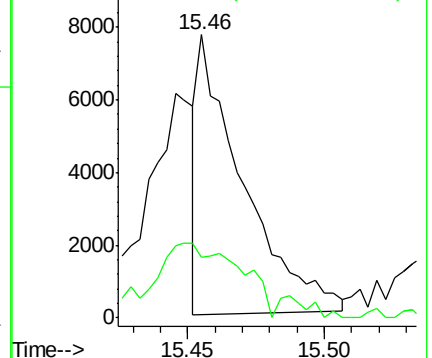


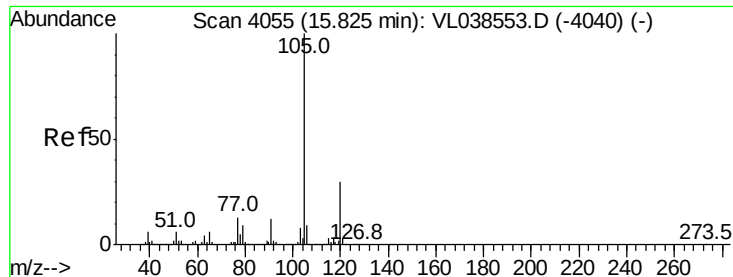
#71
 2-Chlorotoluene
 Concen: 0.05 ppbv
 RT: 15.46 min Scan# 3940
 Delta R.T. 0.02 min
 Lab File: VL038644.D
 Acq: 18 Mar 2022 3:01

Tgt Ion	Ratio	Lower	Upper
91	100		
126	57.4	12.9	51.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.03 ppbv

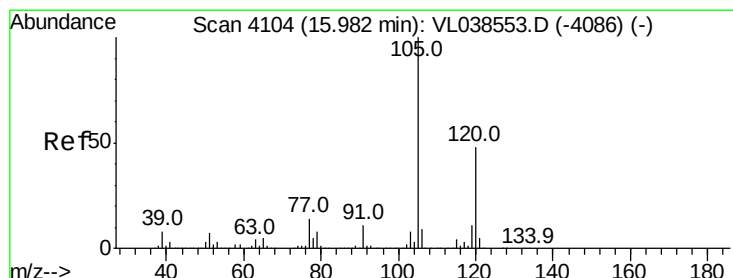
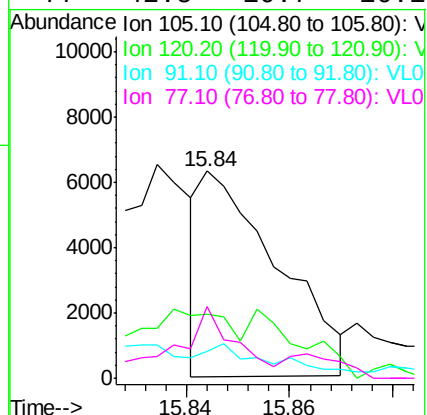
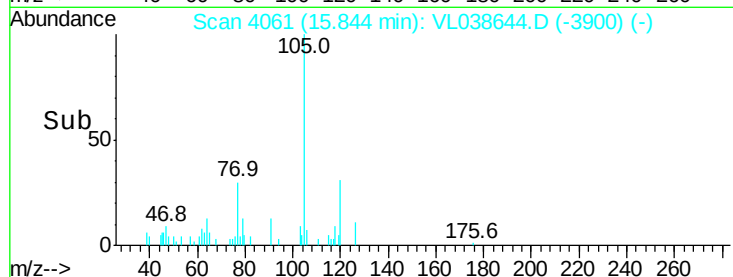
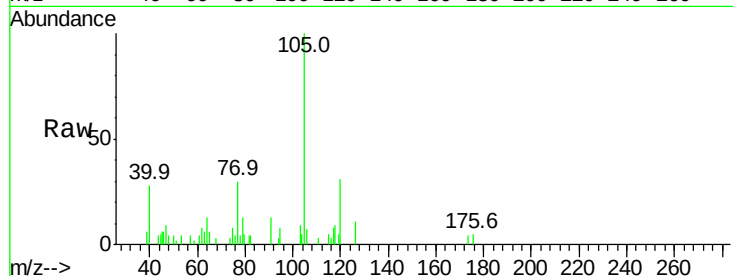
RT: 15.84

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Mar 2022 3:01

Tgt Ion:	105	Resp:	6529
Ion Ratio	Lower	Upper	
105	100		
120	0.0	25.0	37.4#
91	39.8	9.8	14.6#
77	42.5	10.7	16.1#



#73

1,3,5-Trimethylbenzene

Concen: 0.04 ppbv

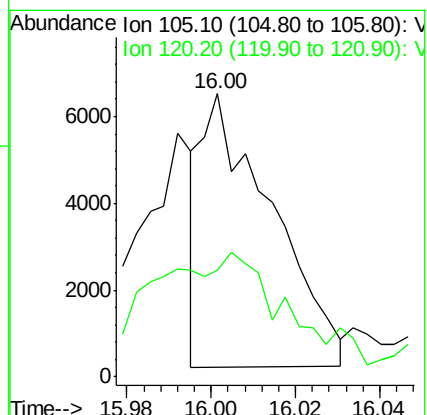
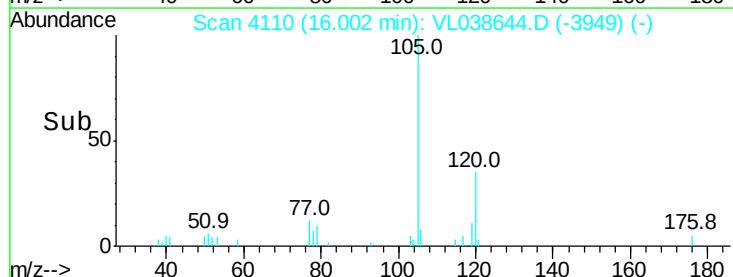
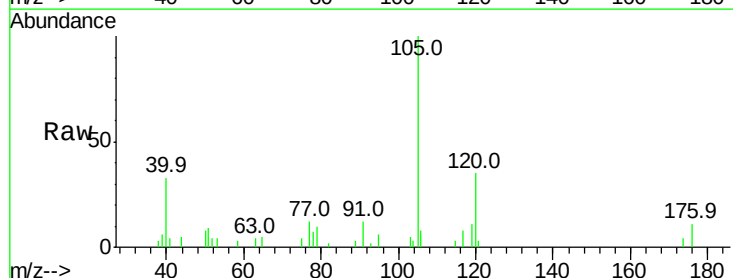
RT: 16.00 min Scan# 4110

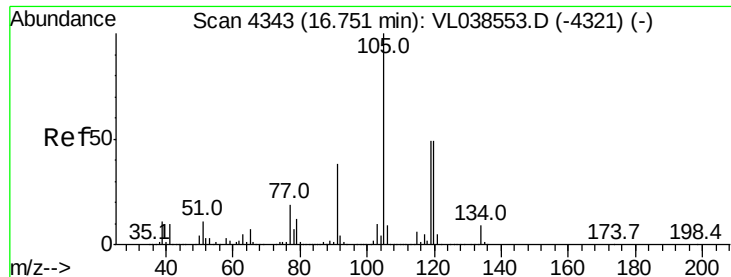
Delta R.T. 0.02 min

Lab File: VL038644.D

Acq: 18 Mar 2022 3:01

Tgt Ion:	105	Resp:	7287
Ion Ratio	Lower	Upper	
105	100		
120	21.5	38.3	57.5#





#74

1,2,4-Trimethylbenzene

Concen: 0.04 ppbv

RT: 16.76 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Mar 2022 3:01

Tgt Ion: 105 Resp: 8799

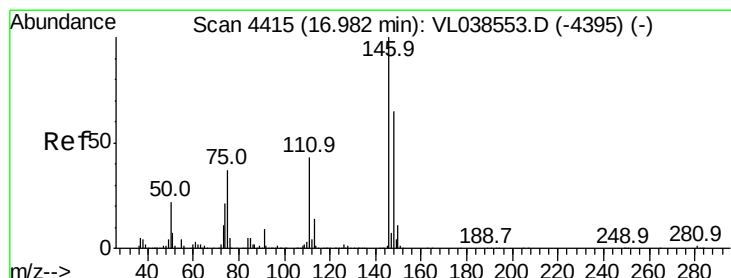
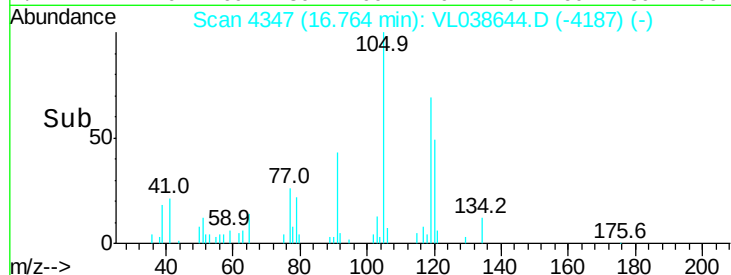
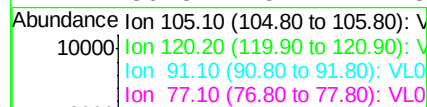
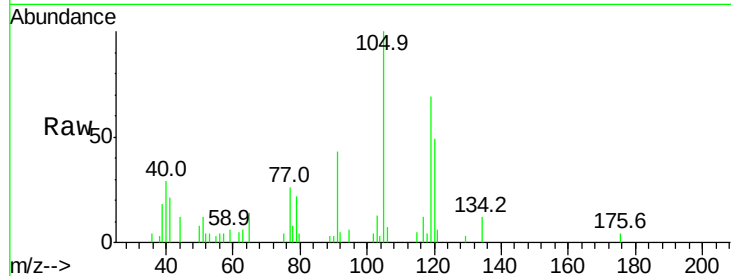
Ion Ratio Lower Upper

105 100

120 50.0 38.9 58.3

91 50.4 30.6 46.0#

77 30.8 15.2 22.8#



#75

1,3-Dichlorobenzene

Concen: 0.04 ppbv

RT: 17.00 min Scan# 4420

Delta R.T. 0.02 min

Lab File: VL038644.D

Acq: 18 Mar 2022 3:01

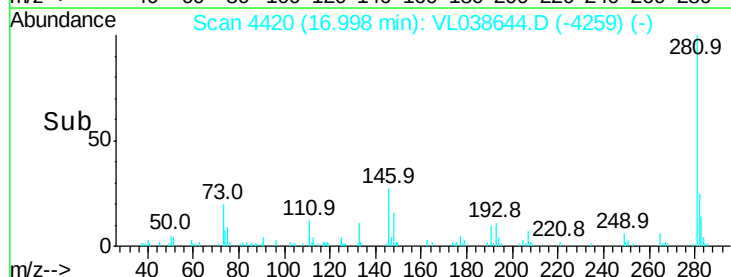
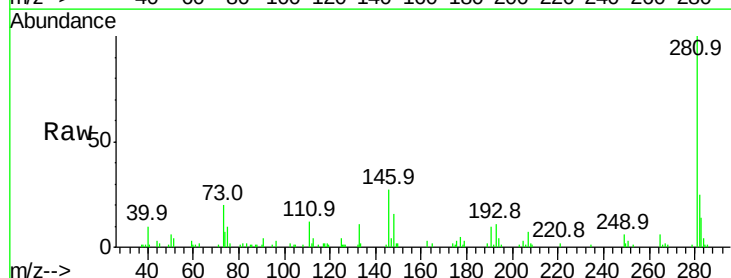
Tgt Ion: 146 Resp: 5448

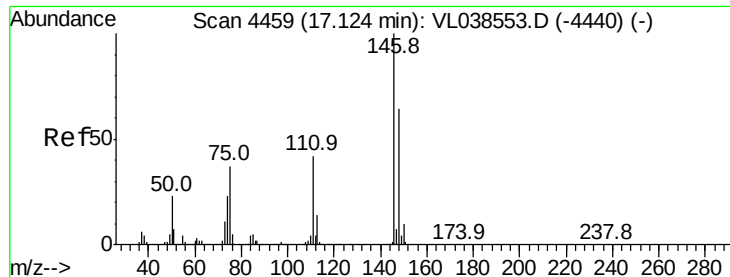
Ion Ratio Lower Upper

146 100

111 129.8 21.9 65.8#

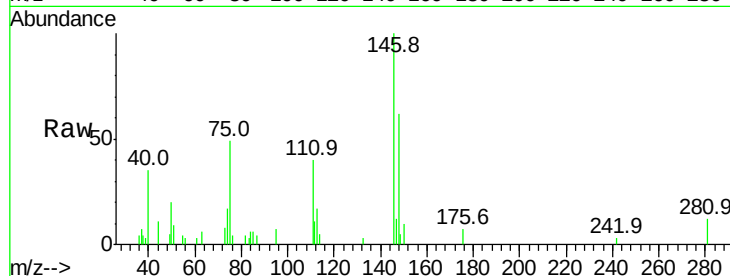
148 186.1 32.2 96.6#



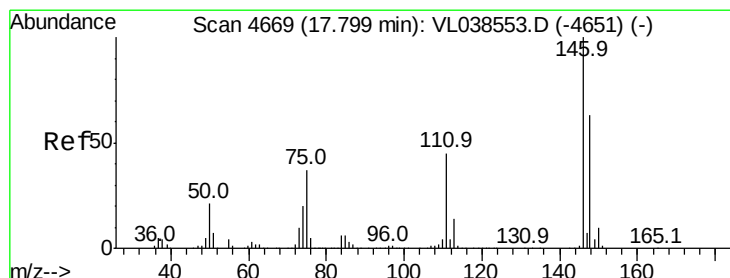
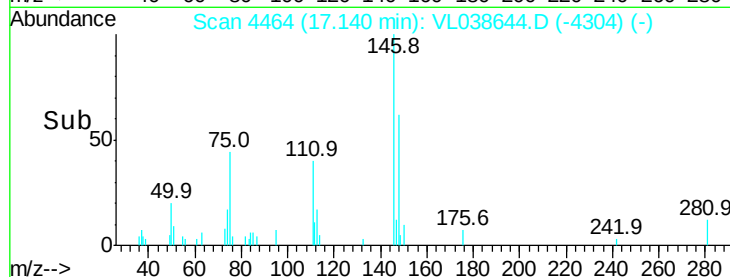
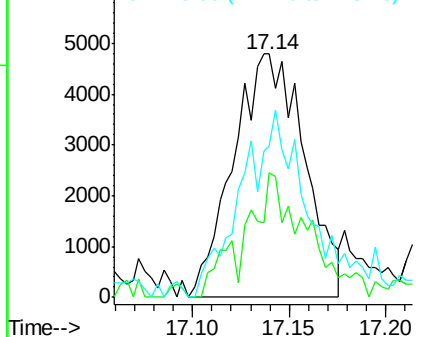


#76
 1,4-Dichlorobenzene
 Concen: 0.09 ppbv
 RT: 17.14 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 18 Mar 2022 3:01 MDL-AIR-03-QT1-2022DL

Tgt Ion:146 Resp: 12267
 Ion Ratio Lower Upper
 146 100
 111 46.9 21.8 65.3
 148 77.8 32.8 98.4

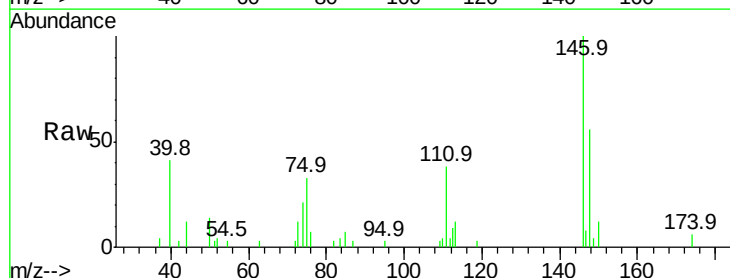


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

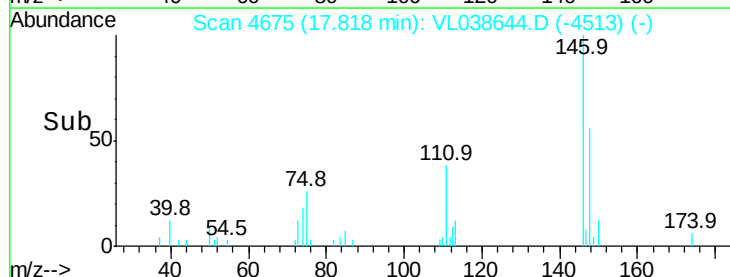
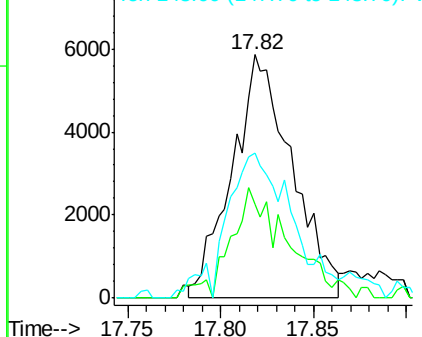


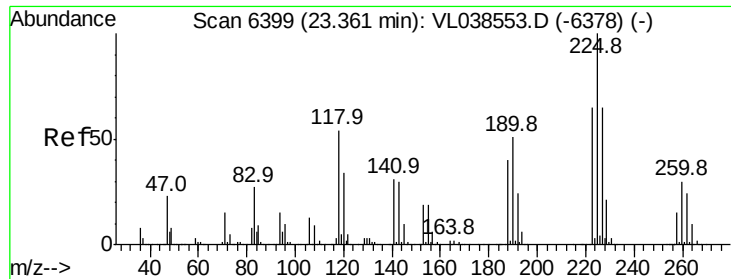
#77
 1,2-Dichlorobenzene
 Concen: 0.10 ppbv
 RT: 17.82 min Scan# 4675
 Delta R.T. 0.02 min
 Lab File: VL038644.D
 Acq: 18 Mar 2022 3:01

Tgt Ion:146 Resp: 13163
 Ion Ratio Lower Upper
 146 100
 111 44.9 23.2 69.5
 148 72.3 32.6 98.0



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.02 ppbv

RT: 23.39 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Mar 2022 5:01 MDL-AIR-03-QT1-2022DL

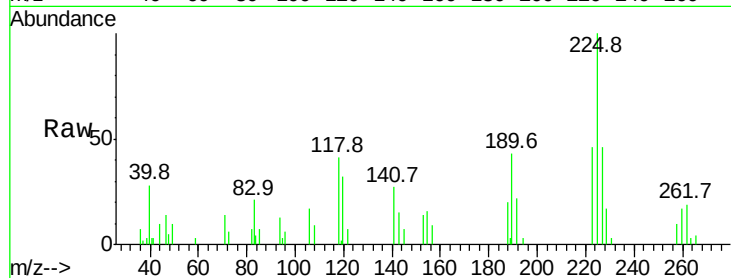
Tgt Ion: 225 Resp: 3018

Ion Ratio Lower Upper

225 100

223 0.0 51.4 77.0#

227 0.0 51.9 77.9#



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

