

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032122\
 Data File : VL038659.D
 Acq On : 21 Mar 2022 20:48
 Operator : SY/AP
 Sample : N1645-15 0.45 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Mar 22 03:49:43 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	910542	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2363628	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2086022	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1650444	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	72618	0.59	ppbv	98
3) Chlorodifluoromethane	2.99	51	47290	0.49	ppbv	100
4) Chloromethane	3.14	50	25839	0.49	ppbv	93
5) Vinyl Chloride	3.26	62	23405	0.44	ppbv	96
6) Bromomethane	3.47	94	12851	0.45	ppbv	94
7) Chloroethane	3.56	64	8020	0.45	ppbv	92
8) Dichlorotetrafluoroethane	3.19	85	60523	0.50	ppbv	97
9) Propene	3.02	41	21784	0.47	ppbv	99
10) Heptane	8.12	43	21111	0.19	ppbv #	26
11) Trichlorofluoromethane	3.95	101	31993	0.30	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	40578	0.49	ppbv	97
13) Ethanol	3.62	45	699	0.14	ppbv #	37
14) Bromoethene	3.74	108	17008	0.46	ppbv #	96
15) Acetone	3.86	43	15480	0.20	ppbv #	6
16) 1,3-Butadiene	3.33	39	16449	0.37	ppbv #	79
17) tert-Butyl alcohol	4.31	59	18286	0.27	ppbv #	81
18) 1,1-Dichloroethene	4.29	96	17295	0.46	ppbv	88
19) Isopropyl Alcohol	3.99	45	14371	0.33	ppbv #	85
20) Methylene Chloride	4.34	84	12050	0.36	ppbv	95
21) Allyl Chloride	4.41	41	23273	0.41	ppbv #	85
22) trans-1,2-Dichloroethene	4.88	96	16162	0.42	ppbv	98
23) Vinyl Acetate	5.08	43	27751	0.36	ppbv #	92
24) 1,1-Dichloroethane	5.01	63	31582	0.42	ppbv	98
25) Ethyl Acetate	5.68	43	84874	0.43	ppbv	97
26) Hexane	5.68	57	35440	0.40	ppbv #	83
27) Carbon Disulfide	4.55	76	36472	0.42	ppbv	97
28) Methyl tert-Butyl Ether	5.05	73	29081	0.44	ppbv	98
29) Chloroform	5.74	83	63148	0.45	ppbv	99
30) Cyclohexane	7.12	84	31168	0.40	ppbv #	85
31) cis-1,2-Dichloroethene	5.55	61	31943	0.38	ppbv	90
32) 1,1,1-Trichloroethane	6.51	97	31593	0.23	ppbv #	26
34) 2-Butanone	5.26	43	45446	0.49	ppbv	93
35) Carbon Tetrachloride	7.01	117	58909	0.43	ppbv	96
36) Benzene	6.88	78	75071	0.41	ppbv	99
37) 1,2-Dichloroethane	6.30	62	40633	0.44	ppbv	100
38) Trichloroethene	7.83	130	16786	0.22	ppbv	95
39) 1,2-Dichloropropane	7.60	63	14446	0.20	ppbv	94
40) 1,4-Dioxane	7.85	88	1657	0.07	ppbv #	1
41) Tetrahydrofuran	6.07	42	21347	0.31	ppbv	92
42) Bromodichloromethane	7.78	83	61780	0.44	ppbv	94
43) Methyl Methacrylate	8.01	69	22988	0.34	ppbv	93

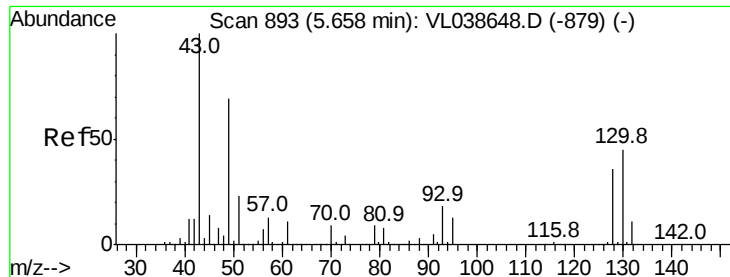
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032122\
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 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	126901	0.41	ppbv	93
45) t-1,3-Dichloropropene	9.27	75	15651	0.23	ppbv	93
46) cis-1,3-Dichloropropene	8.69	75	18454	0.20	ppbv	95
47) 1,1,2-Trichloroethane	9.47	97	34202	0.45	ppbv	94
48) Dibromochloromethane	10.29	129	48119	0.40	ppbv	97
49) Bromoform	13.02	173	19597	0.20	ppbv #	36
50) 4-Methyl-2-Pentanone	8.75	43	60859	0.35	ppbv	99
51) 2-Hexanone	10.14	43	14141	0.11	ppbv #	27
52) Tetrachloroethene	11.21	164	28092	0.42	ppbv	93
53) Toluene	9.80	91	68934	0.35	ppbv	99
54) 1,2-Dibromoethane	10.60	107	42542	0.41	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.11	131	41345	0.48	ppbv #	1
57) Chlorobenzene	12.13	112	71353	0.47	ppbv #	94
58) Ethyl Benzene	12.70	91	88670	0.36	ppbv	95
59) m/p-Xylene	12.98	91	170402	0.80	ppbv	99
60) o-Xylene	13.68	91	80164	0.40	ppbv	98
61) Styrene	13.52	104	34289	0.31	ppbv	97
62) Isopropylbenzene	14.65	105	130581	0.43	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.66	83	71058	0.45	ppbv	98
64) n-propylbenzene	15.55	120	31828	0.40	ppbv	82
65) tert-Butylbenzene	16.73	119	53881	0.20	ppbv #	21
66) Benzyl Chloride	16.97	91	6693	0.13	ppbv #	65
67) sec-Butylbenzene	17.28	105	163542	0.42	ppbv	99
69) p-Isopropyltoluene	17.64	119	118598	0.37	ppbv	95
70) n-Butylbenzene	18.54	91	125982	0.38	ppbv	97
71) 2-Chlorotoluene	15.44	91	88653	0.39	ppbv	100
72) 4-Ethyltoluene	15.83	105	89947	0.38	ppbv	97
73) 1,3,5-Trimethylbenzene	15.99	105	82415	0.38	ppbv	93
74) 1,2,4-Trimethylbenzene	16.75	105	97184	0.41	ppbv #	91
75) 1,3-Dichlorobenzene	16.99	146	64606	0.43	ppbv	96
76) 1,4-Dichlorobenzene	17.13	146	55273	0.37	ppbv	84
77) 1,2-Dichlorobenzene	17.81	146	61600	0.41	ppbv	91
78) Hexachloro-1,3-Butadiene	23.36	225	39836	0.29	ppbv #	18
79) Naphthalene	22.19	128	26506	0.15	ppbv #	90
80) Naphthalene,2-methyl-	24.96	142	10661	0.22	ppbv #	94
81) 1,2,4-Trichlorobenzene	21.91	180	47096	0.38	ppbv	94

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

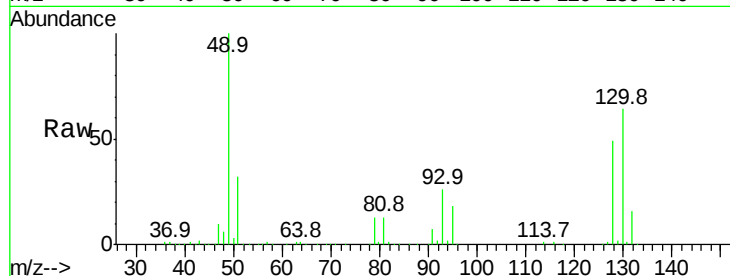
Tgt Ion: 49 Resp: 910542

Ion Ratio Lower Upper

49 100

128 53.2 26.2 78.6

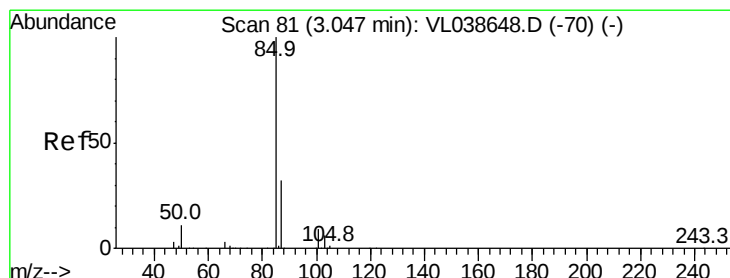
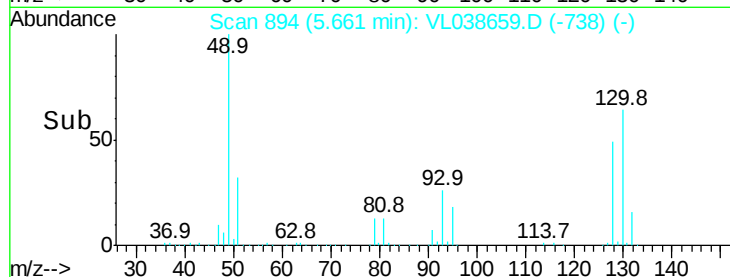
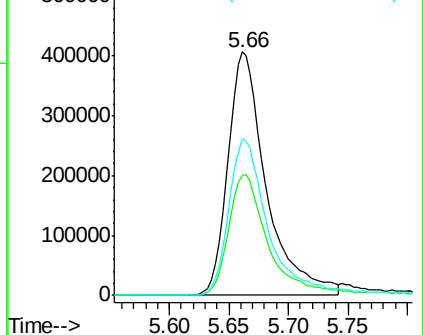
130 68.9 33.7 101.1



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



#2

Dichlorodifluoromethane

Concen: 0.59 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038659.D

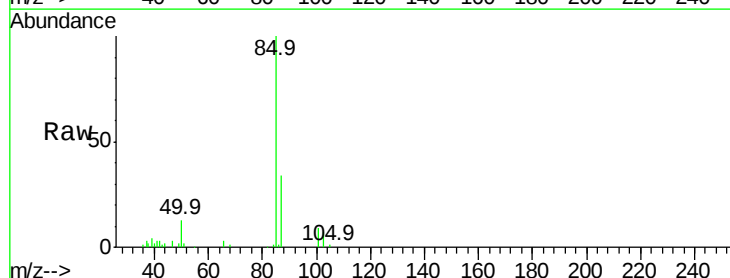
Acq: 21 Mar 2022 20:48

Tgt Ion: 85 Resp: 72618

Ion Ratio Lower Upper

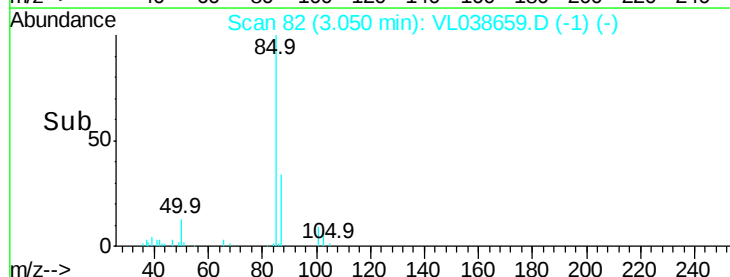
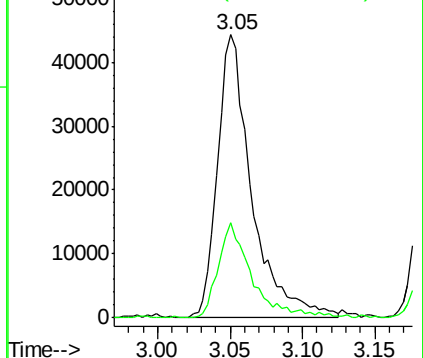
85 100

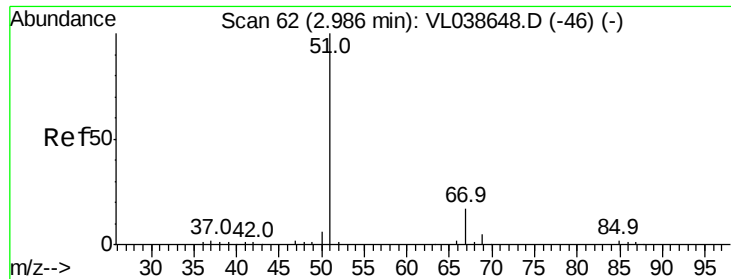
87 33.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

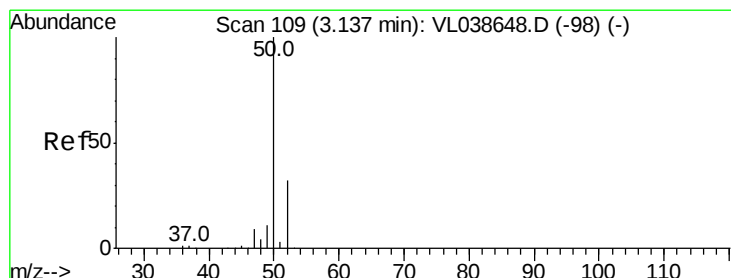
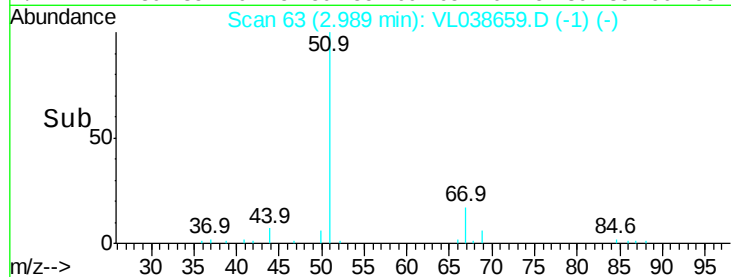
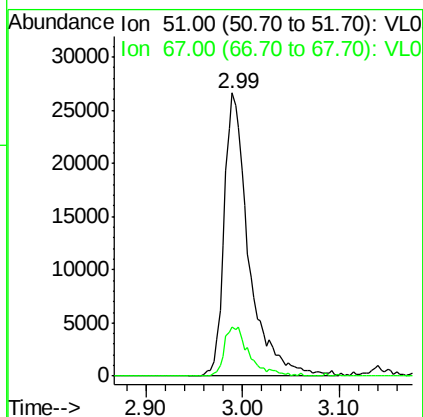
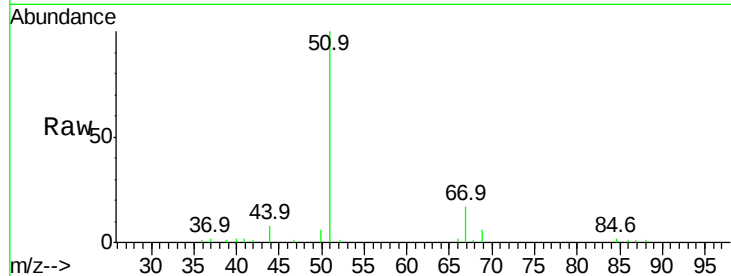
Ion 87.00 (86.70 to 87.70): VL0





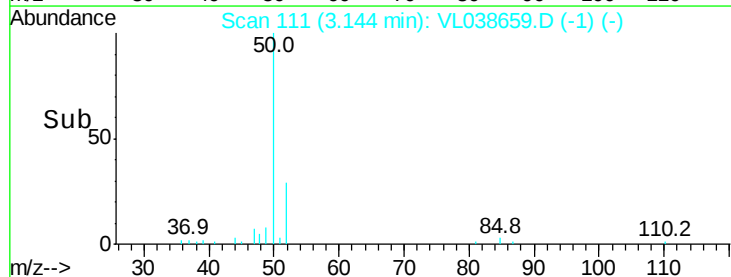
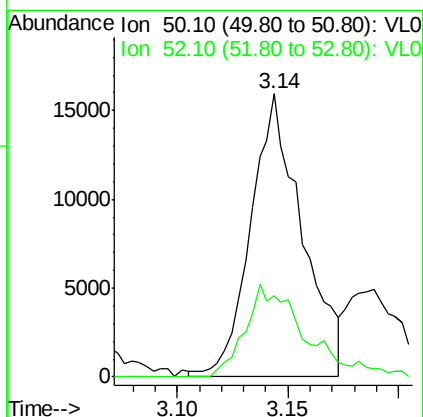
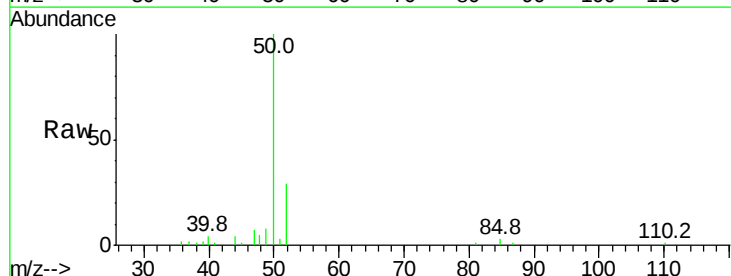
#3
 Chlorodifluoromethane
 Concen: 0.49 ppbv
 RT: 2.99 Instrument: MSVOA_L
 Delta R.T. ClientSampleId:
 Lab File: MDL-AIR-03-OT1-2022DL
 Acq: 21 Mar 2022 20:48

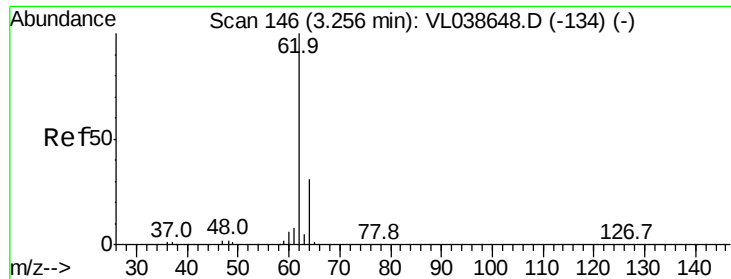
Tgt Ion: 51 Resp: 47290
 Ion Ratio Lower Upper
 51 100
 67 17.5 14.1 21.1



#4
 Chloromethane
 Concen: 0.49 ppbv
 RT: 3.14 min Scan# 111
 Delta R.T. 0.01 min
 Lab File: VL038659.D
 Acq: 21 Mar 2022 20:48

Tgt Ion: 50 Resp: 25839
 Ion Ratio Lower Upper
 50 100
 52 28.2 25.5 38.3





#5

Vinyl Chloride

Concen: 0.44 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

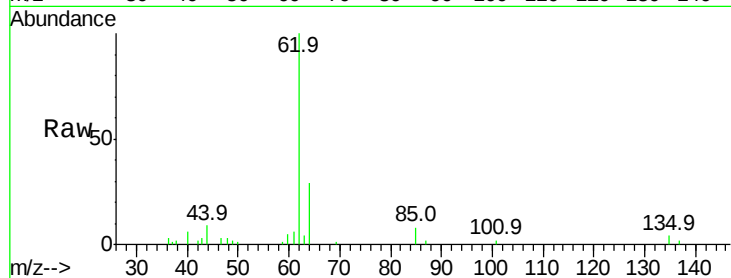
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion: 62 Resp: 23405

Ion Ratio Lower Upper

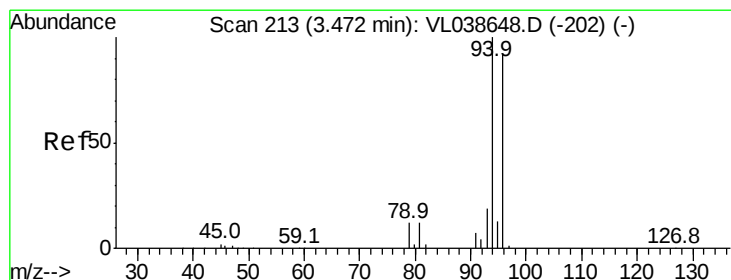
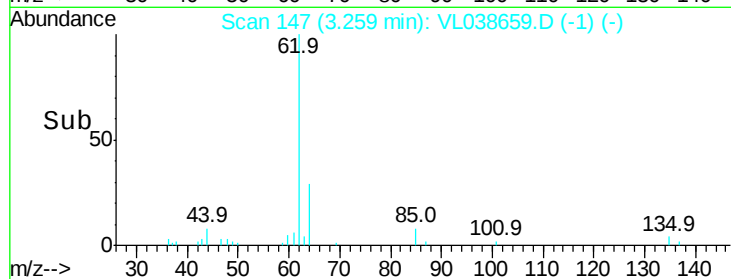
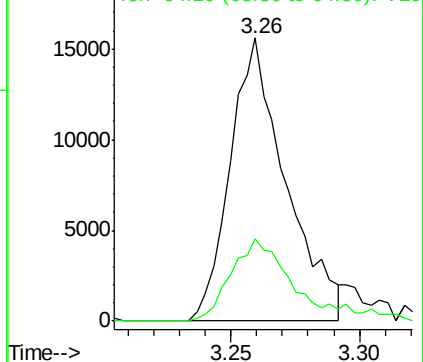
62 100

64 29.2 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: 0.45 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.00 min

Lab File: VL038659.D

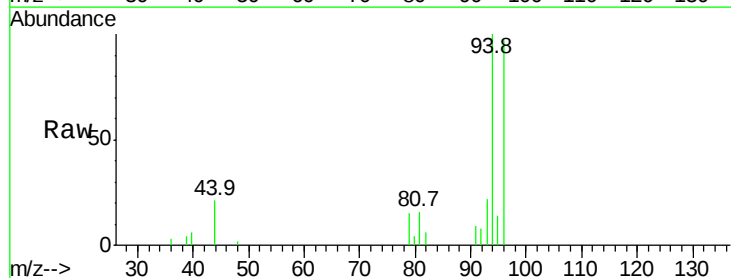
Acq: 21 Mar 2022 20:48

Tgt Ion: 94 Resp: 12851

Ion Ratio Lower Upper

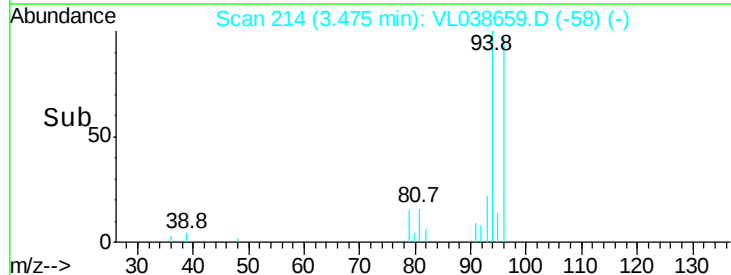
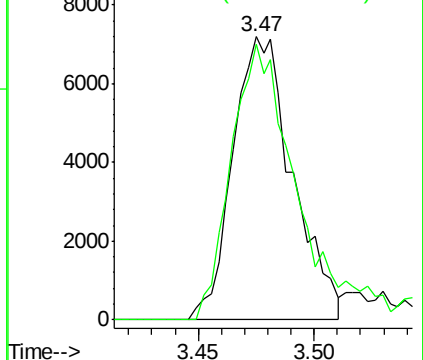
94 100

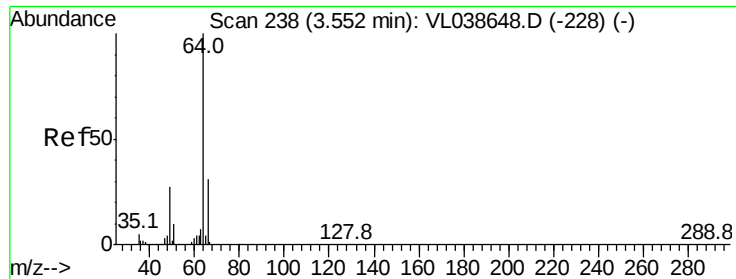
96 97.5 73.3 109.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.45 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

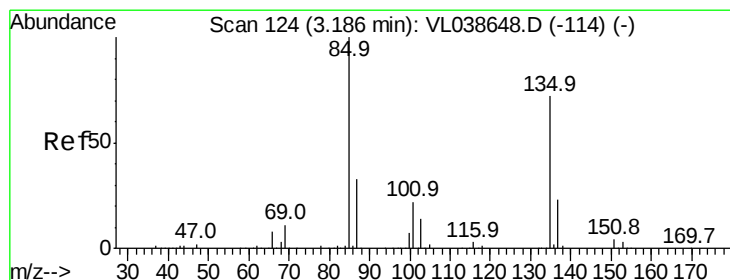
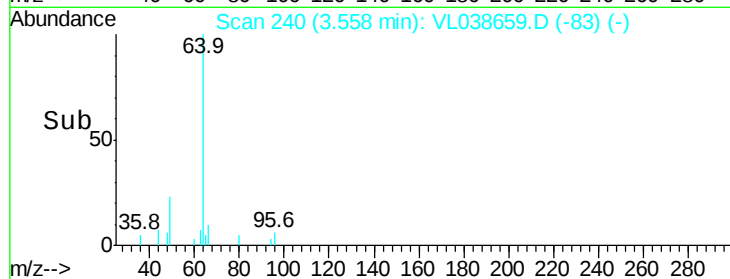
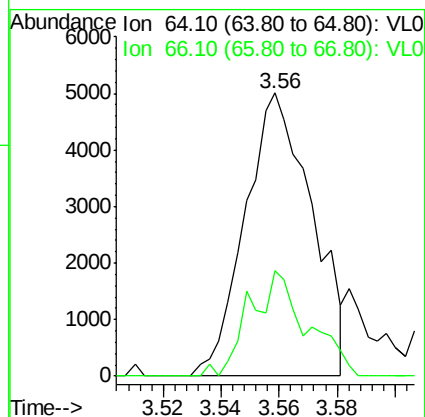
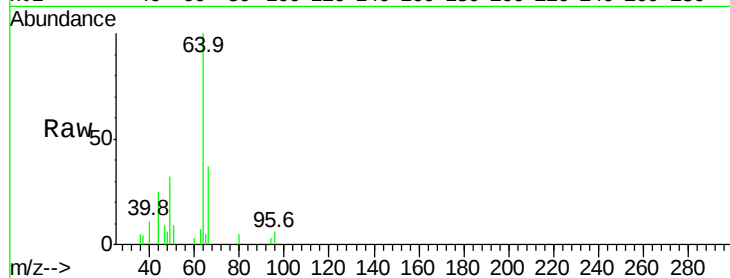
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion: 64 Resp: 8020

Ion Ratio Lower Upper

64 100

66 35.6 25.0 37.6



#8

Dichlorotetrafluoroethane

Concen: 0.50 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.00 min

Lab File: VL038659.D

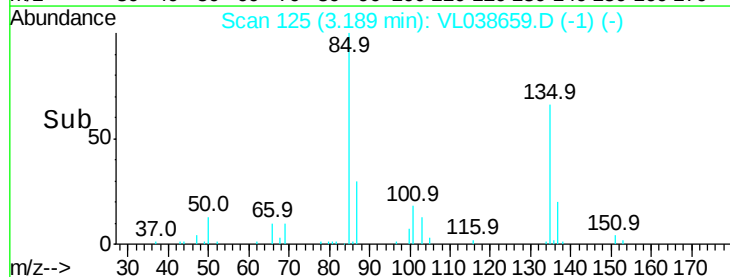
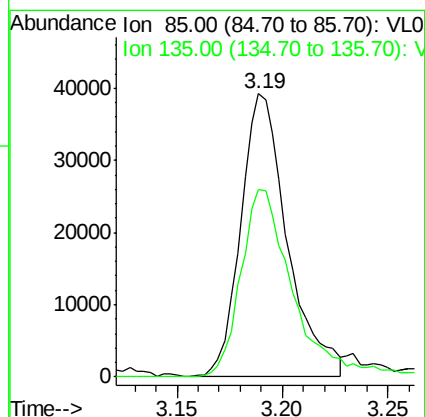
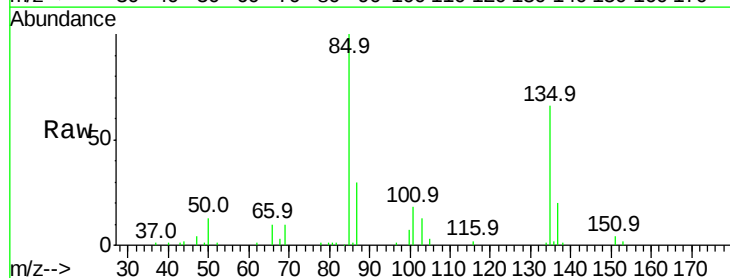
Acq: 21 Mar 2022 20:48

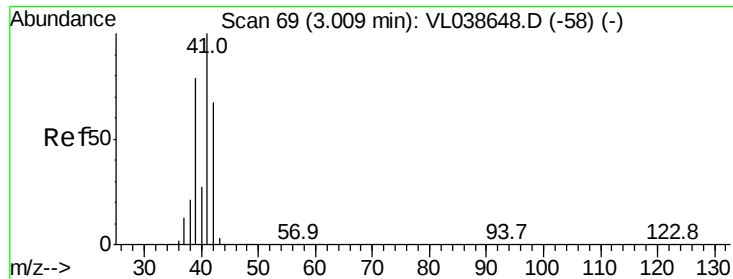
Tgt Ion: 85 Resp: 60523

Ion Ratio Lower Upper

85 100

135 75.1 57.8 86.6





#9

Propene

Concen: 0.47 ppbv

RT: 3.02 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

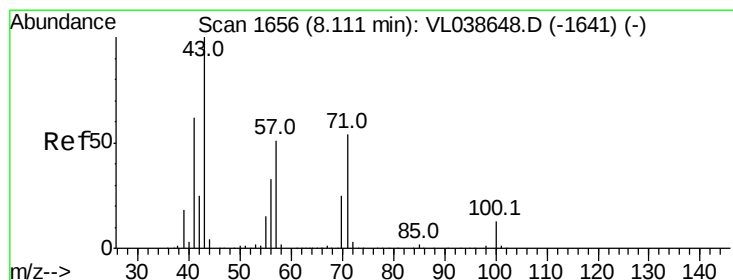
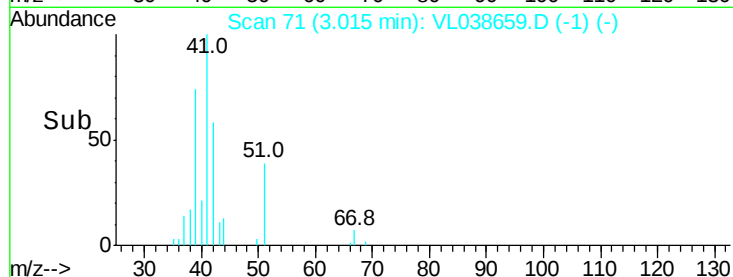
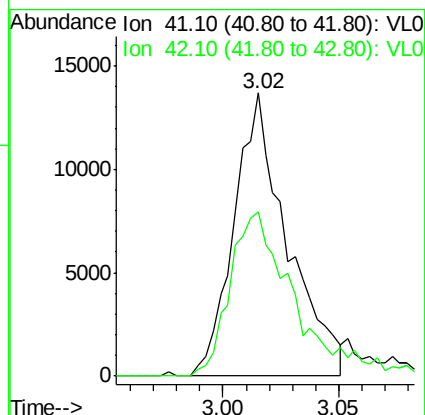
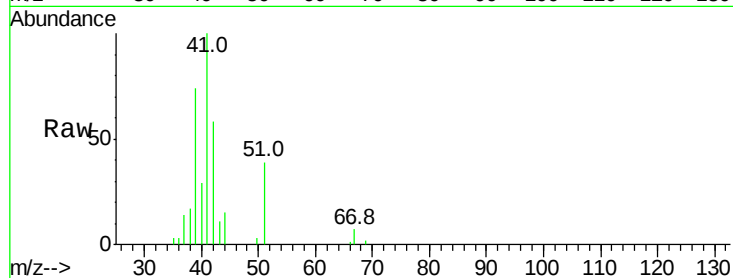
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion: 41 Resp: 21784

Ion Ratio Lower Upper

41 100

42 71.4 56.2 84.4



#10

Heptane

Concen: 0.19 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. 0.01 min

Lab File: VL038659.D

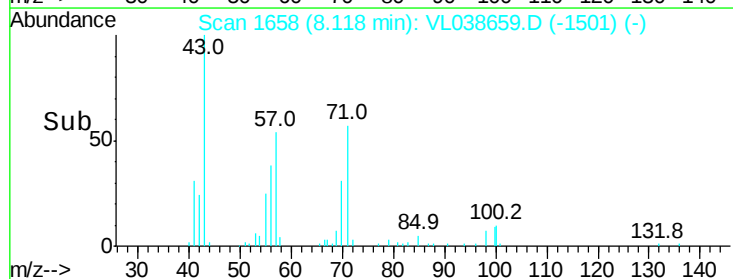
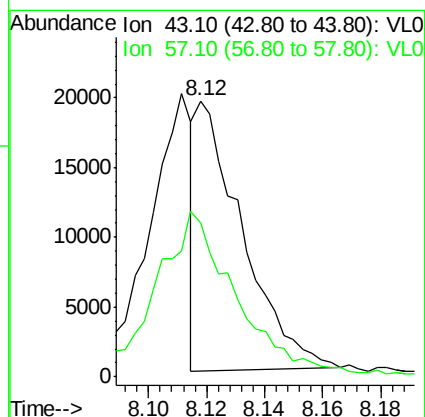
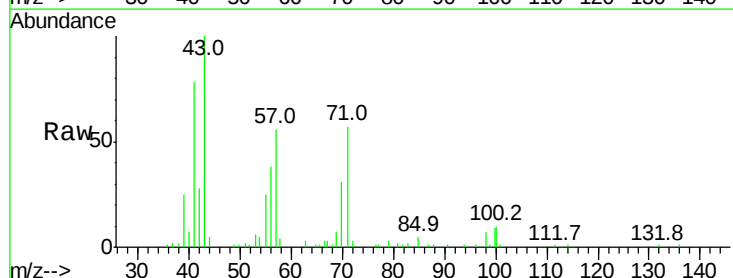
Acq: 21 Mar 2022 20:48

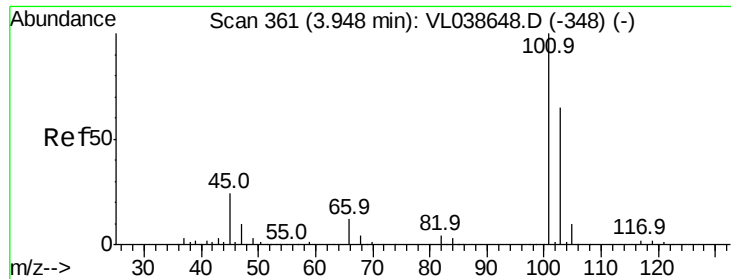
Tgt Ion: 43 Resp: 21111

Ion Ratio Lower Upper

43 100

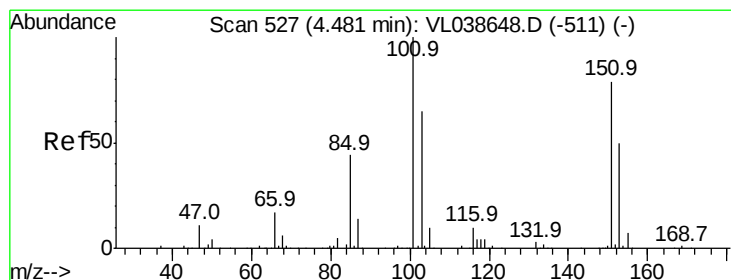
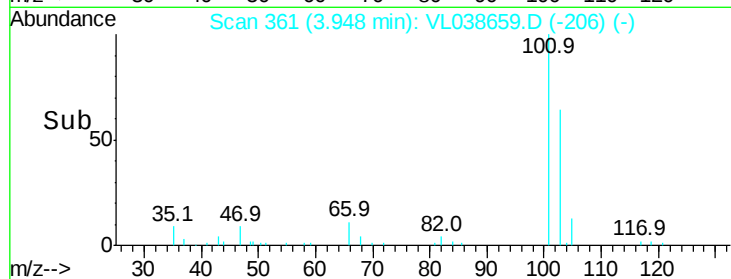
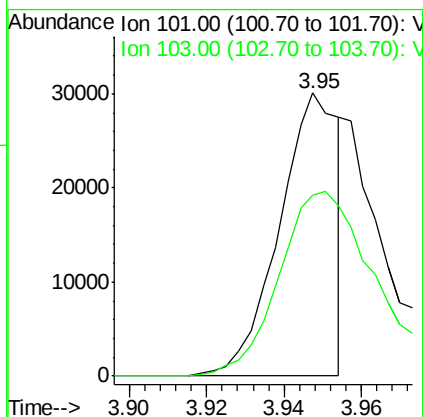
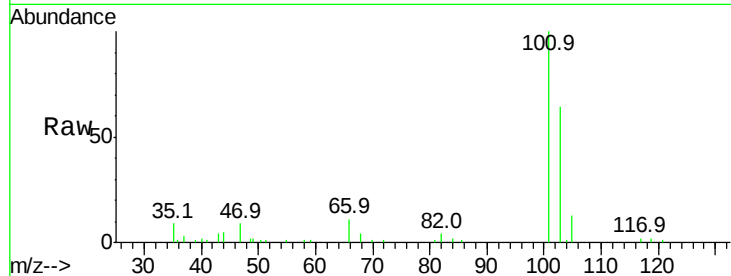
57 0.0 41.4 62.2#





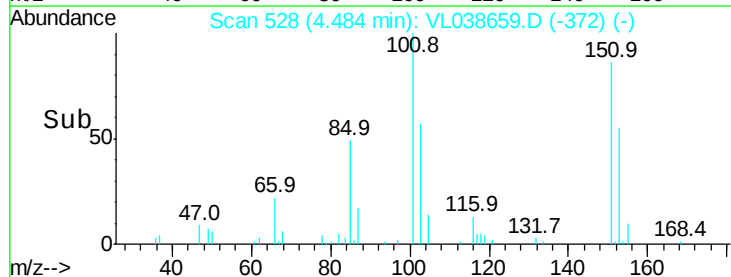
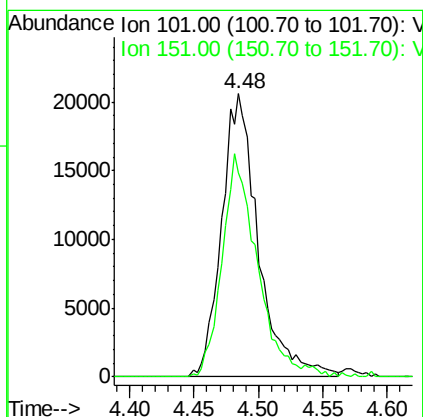
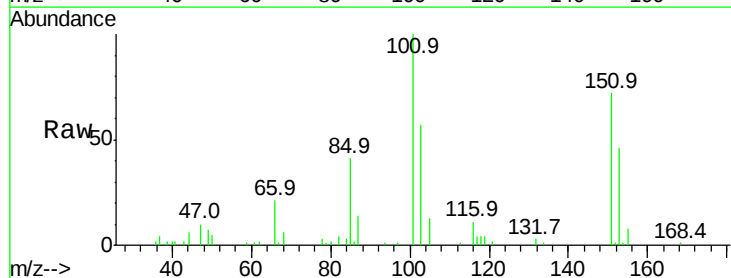
#11
 Trichlorofluoromethane
 Concen: 0.30 ppbv
 RT: 3.95
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 MDL-AIR-03-OT1-2022DL
 Acq: 21 Mar 2022 20:48

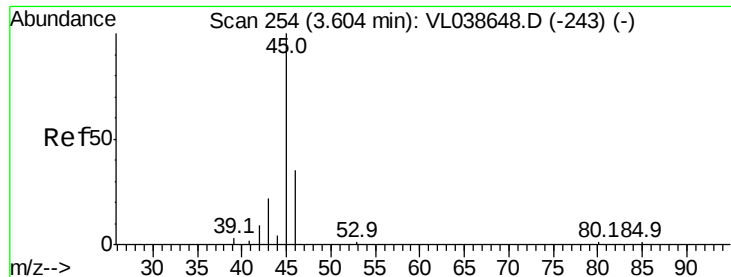
Tgt Ion:101 Resp: 31993
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.49 ppbv
 RT: 4.48 min Scan# 528
 Delta R.T.: 0.00 min
 Lab File: VL038659.D
 Acq: 21 Mar 2022 20:48

Tgt Ion:101 Resp: 40578
 Ion Ratio Lower Upper
 101 100
 151 76.1 62.9 94.3





#13

Ethanol

Concen: 0.14 ppbv

RT: 3.62 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

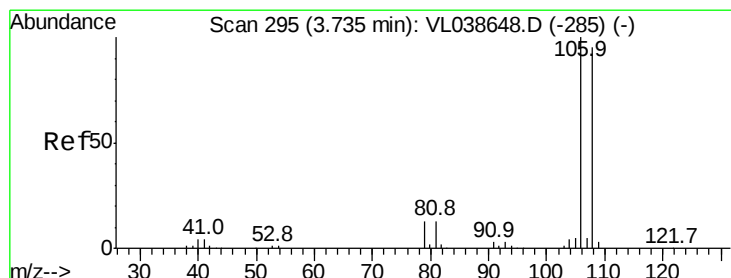
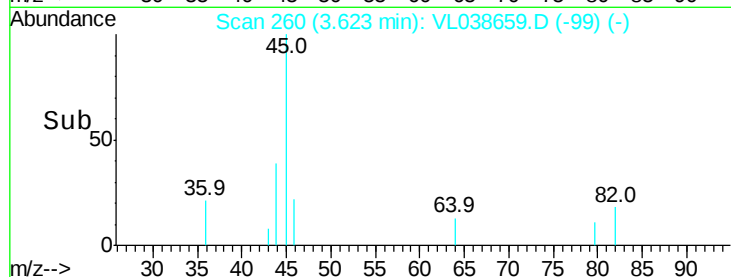
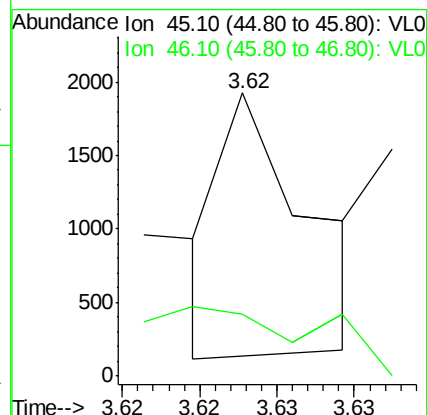
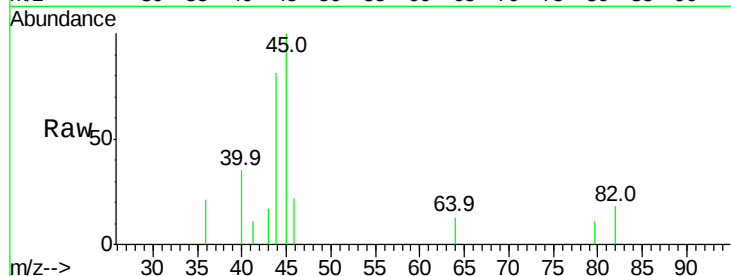
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion: 45 Resp: 699

Ion Ratio Lower Upper

45 100

46 0.0 15.1 60.5#



#14

Bromoethene

Concen: 0.46 ppbv

RT: 3.74 min Scan# 297

Delta R.T. 0.01 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

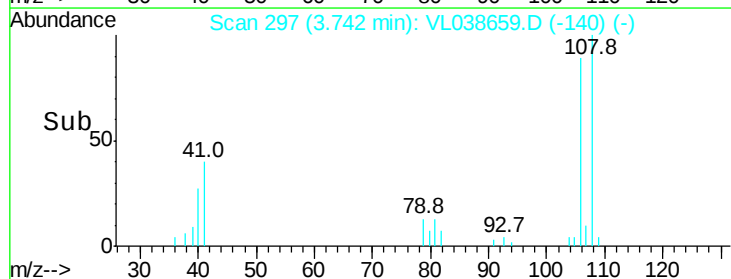
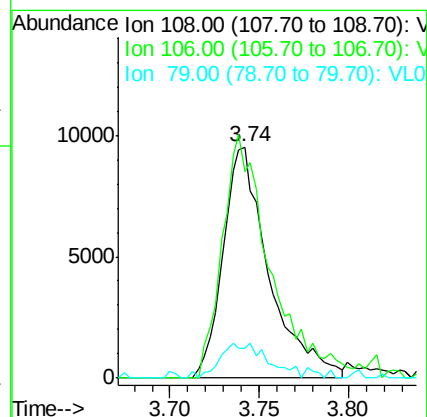
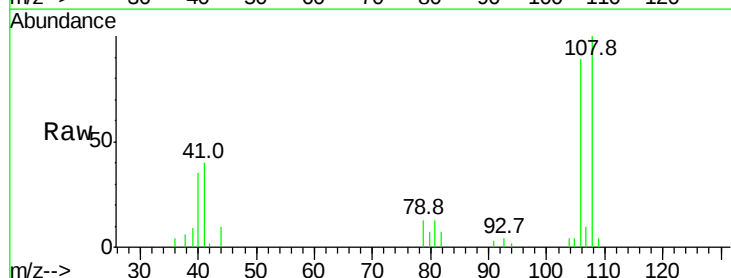
Tgt Ion: 108 Resp: 17008

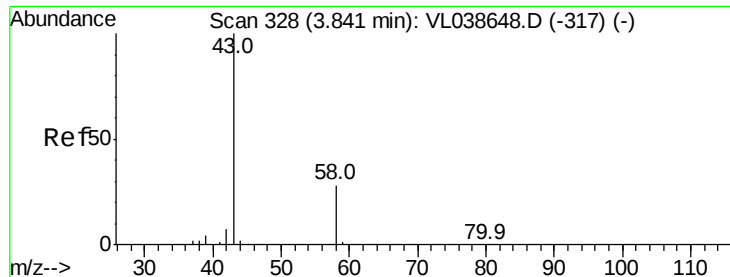
Ion Ratio Lower Upper

108 100

106 114.3 88.3 132.5

79 17.5 11.2 16.8#





#15

Acetone

Concen: 0.20 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

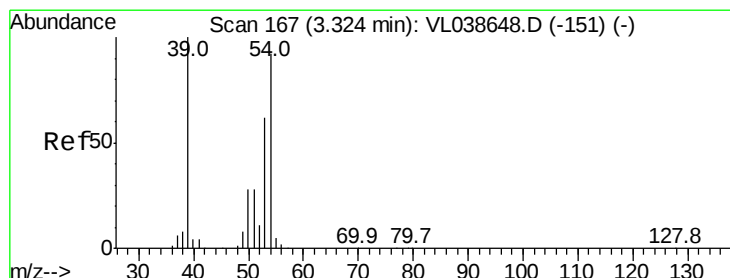
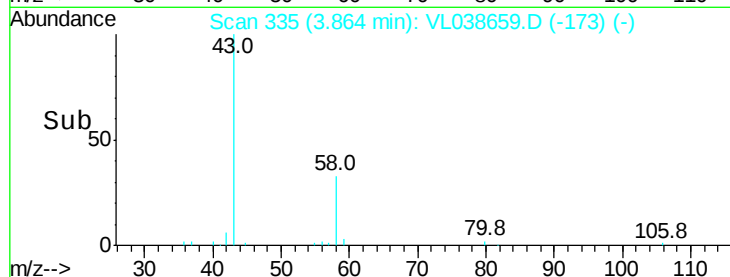
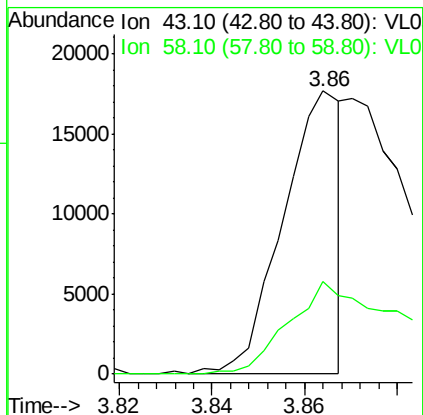
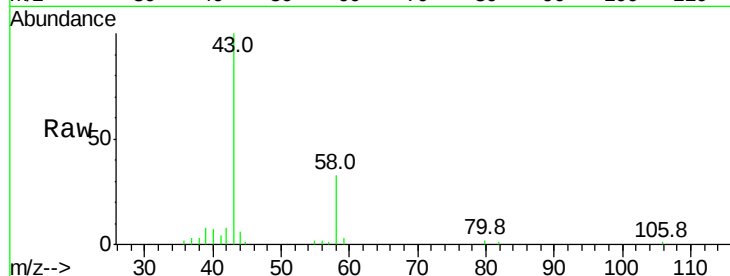
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion: 43 Resp: 15480

Ion Ratio Lower Upper

43 100

58 79.6 23.3 34.9#



#16

1,3-Butadiene

Concen: 0.37 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.01 min

Lab File: VL038659.D

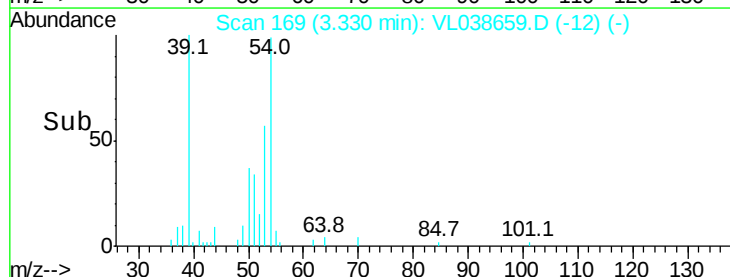
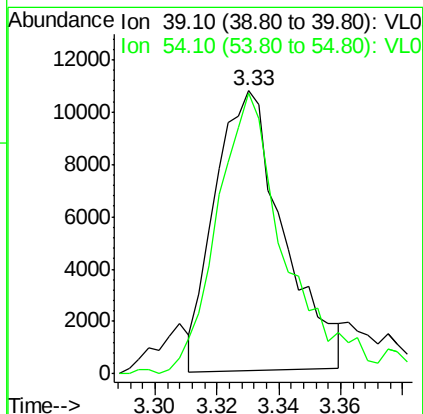
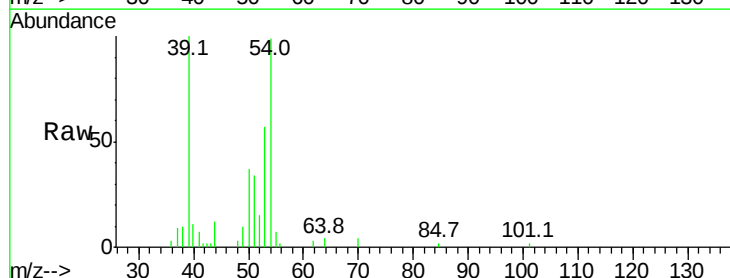
Acq: 21 Mar 2022 20:48

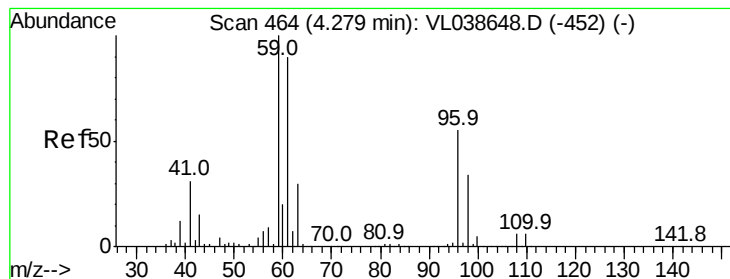
Tgt Ion: 39 Resp: 16449

Ion Ratio Lower Upper

39 100

54 106.2 69.1 103.7#





#17

tert-Butyl alcohol

Concen: 0.27 ppbv

RT: 4.31 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

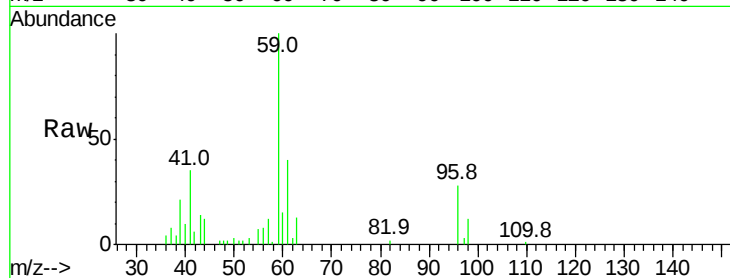
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion: 59 Resp: 18286

Ion Ratio Lower Upper

59 100

57 17.1 8.2 12.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

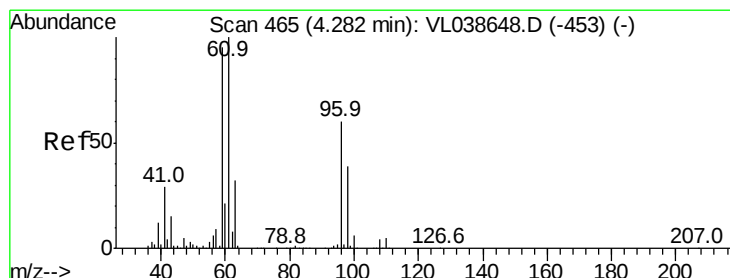
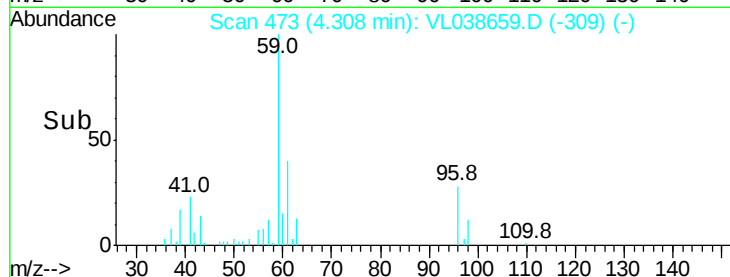
4.31

10000

5000

0

Time--> 4.26 4.28 4.30 4.32



#18

1,1-Dichloroethene

Concen: 0.46 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.01 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

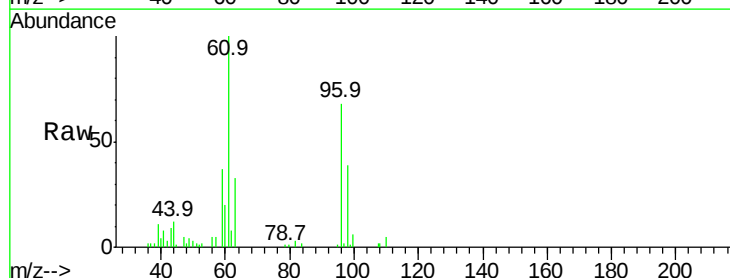
Tgt Ion: 96 Resp: 17295

Ion Ratio Lower Upper

96 100

61 147.7 132.4 198.6

98 57.5 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

20000

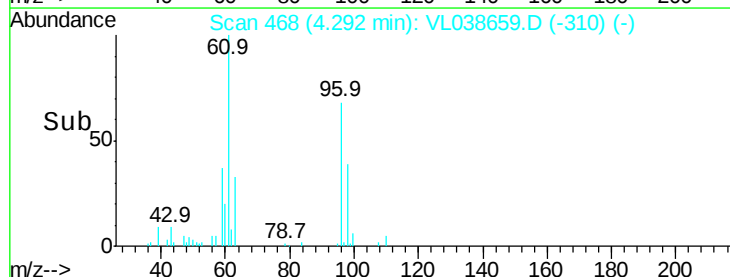
15000

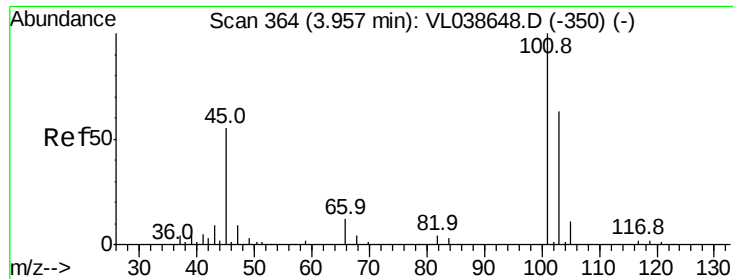
10000

5000

0

Time--> 4.25 4.30 4.35





#19

Isopropyl Alcohol

Concen: 0.33 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

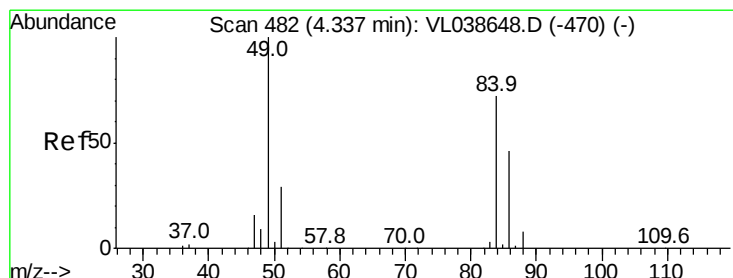
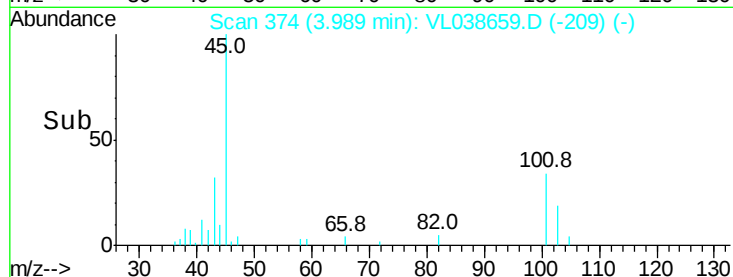
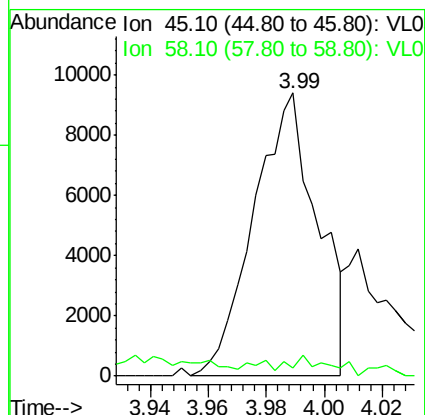
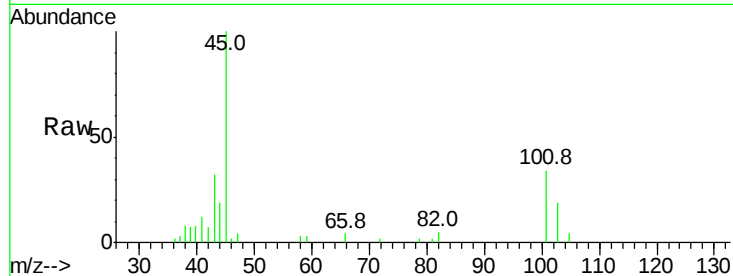
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion: 45 Resp: 14371

Ion Ratio Lower Upper

45 100

58 8.0 2.3 3.5#



#20

Methylene Chloride

Concen: 0.36 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.01 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

Tgt Ion: 84 Resp: 12050

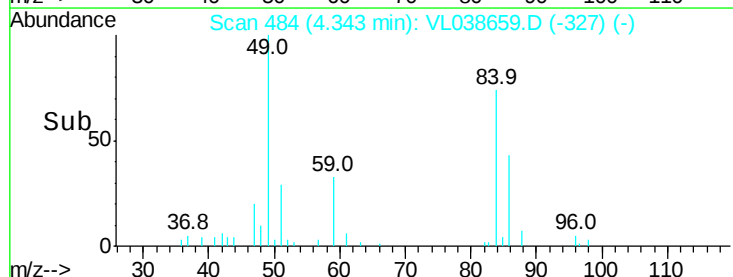
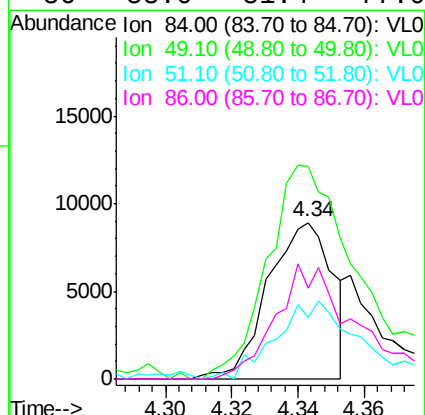
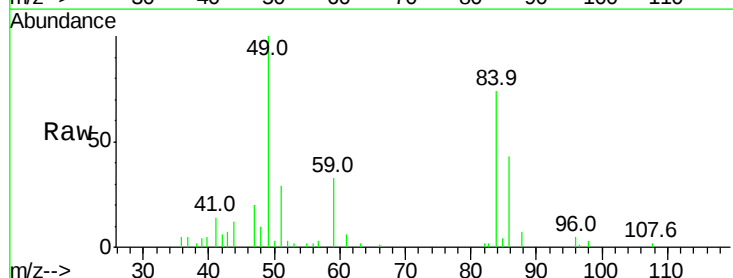
Ion Ratio Lower Upper

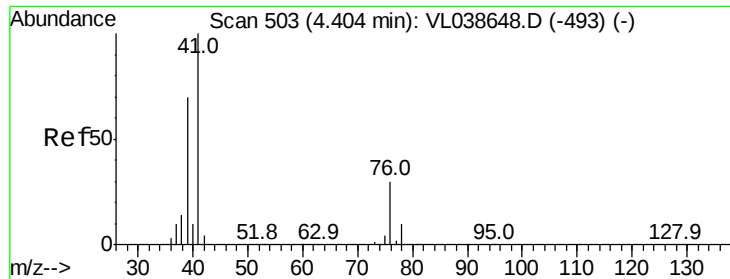
84 100

49 135.3 111.2 166.8

51 36.3 32.8 49.2

86 58.0 51.4 77.0





#21

Allyl Chloride

Concen: 0.41 ppbv

RT: 4.41 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

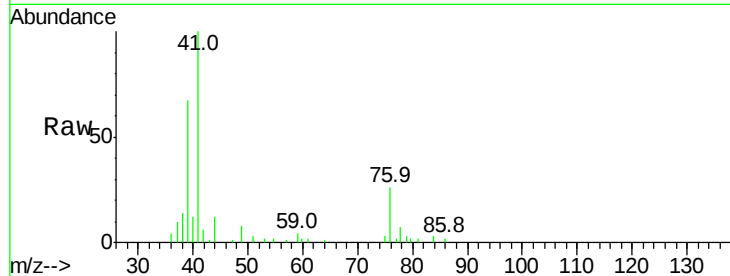
Tgt Ion: 41 Resp: 23273

Ion Ratio Lower Upper

41 100

76 31.5 25.0 37.6

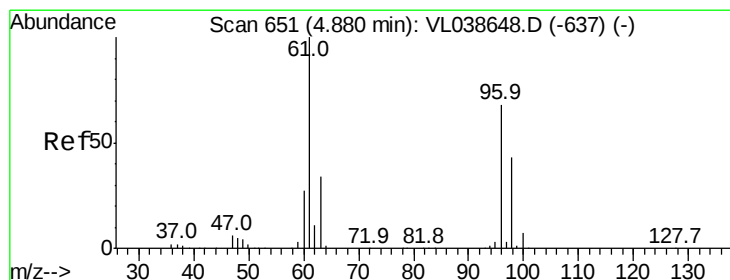
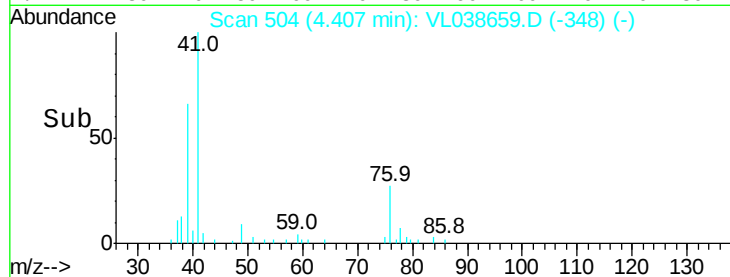
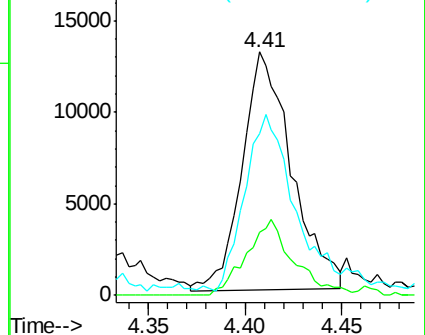
39 89.0 56.6 85.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.42 ppbv

RT: 4.88 min Scan# 652

Delta R.T. 0.00 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

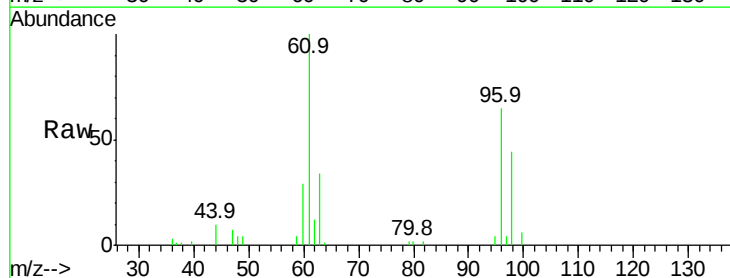
Tgt Ion: 96 Resp: 16162

Ion Ratio Lower Upper

96 100

61 146.4 118.3 177.5

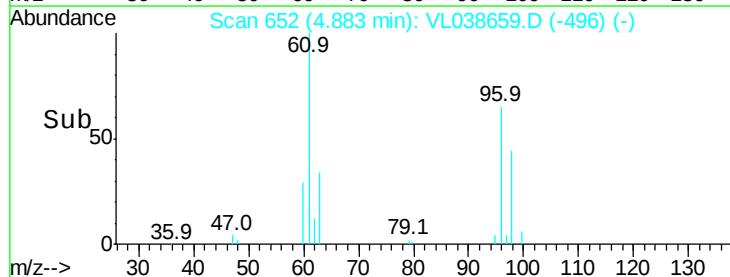
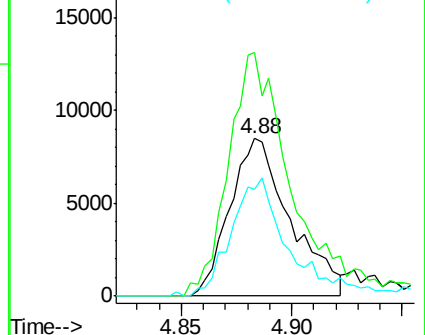
98 67.6 51.3 76.9

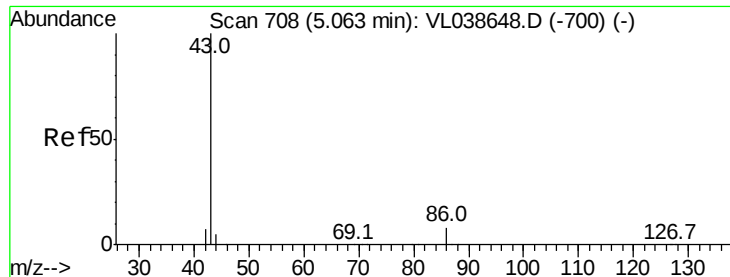


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.36 ppbv

RT: 5.08 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

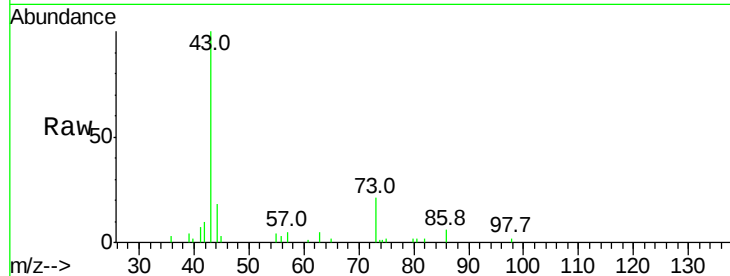
Lab File: MDL-AIR-03-OT1-2022DL

Acq: 21 Mar 2022 20:48

Tgt Ion: 43 Resp: 27751

Ion Ratio Lower Upper

43	100		
86	7.7	5.6	8.4
42	9.3	6.8	10.2
44	13.7	4.2	6.2#

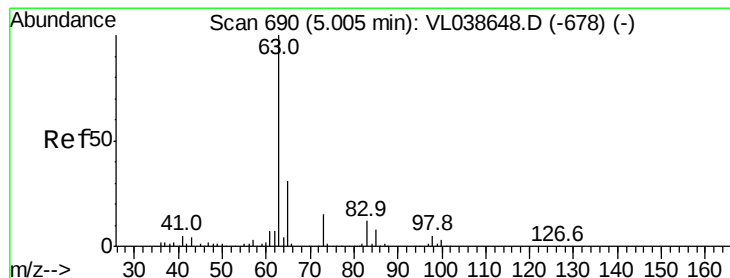
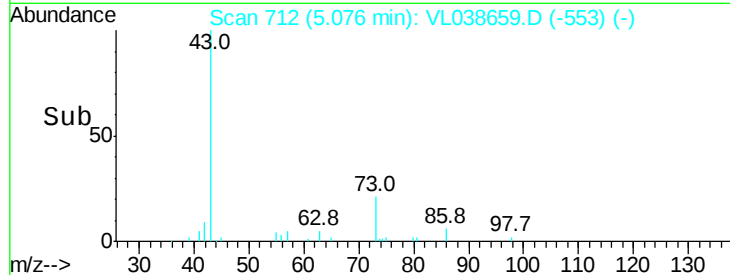
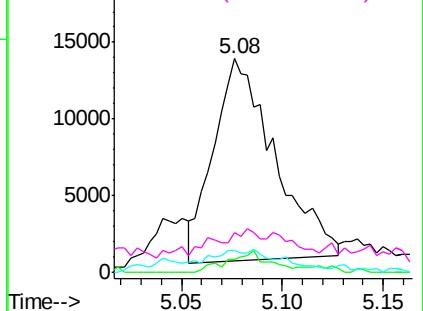


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.42 ppbv

RT: 5.01 min Scan# 691

Delta R.T. 0.00 min

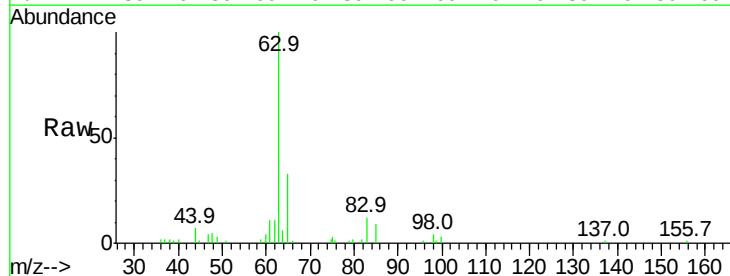
Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

Tgt Ion: 63 Resp: 31582

Ion Ratio Lower Upper

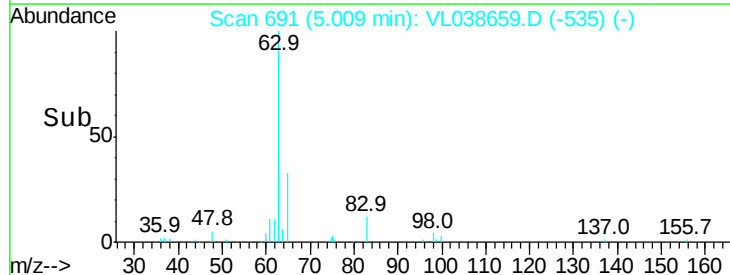
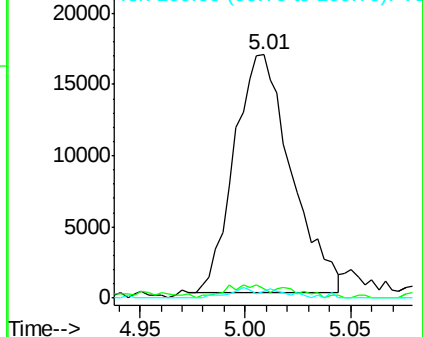
63	100		
98	3.9	2.5	7.5
100	2.9	1.4	4.2

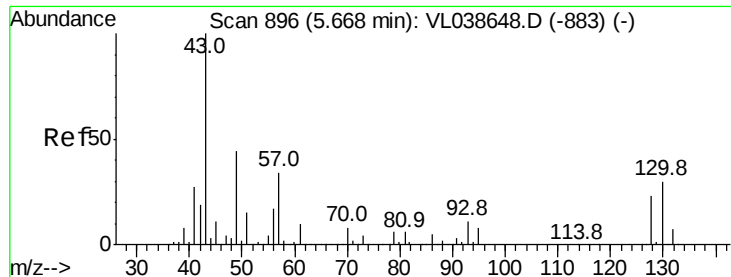


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

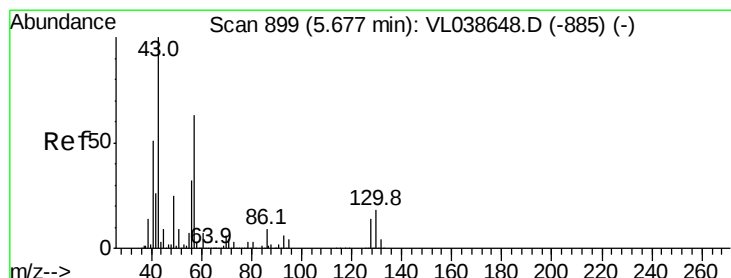
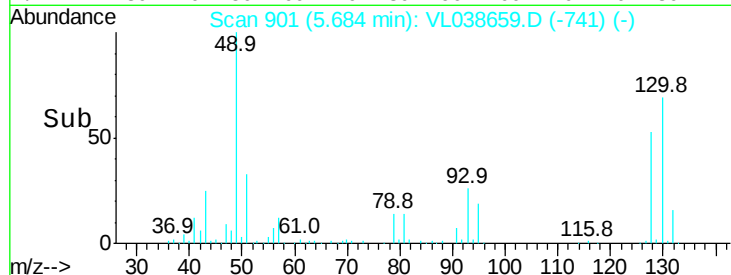
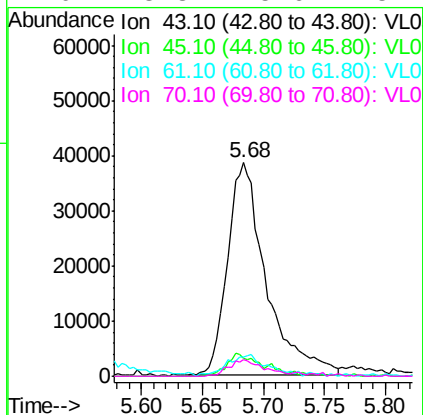
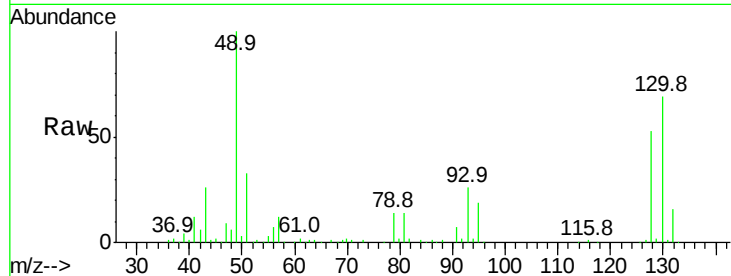
Ion 100.00 (99.70 to 100.70): VL0





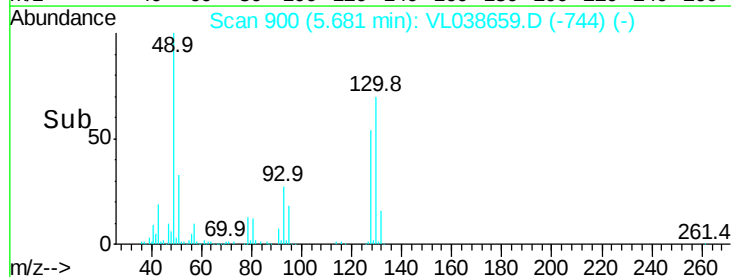
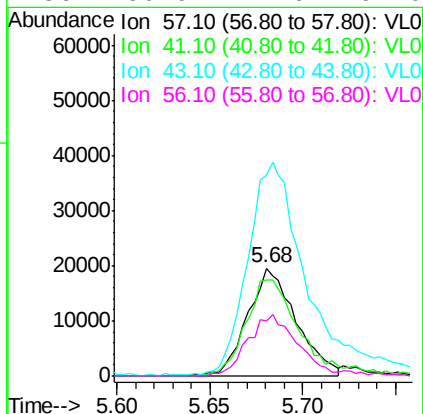
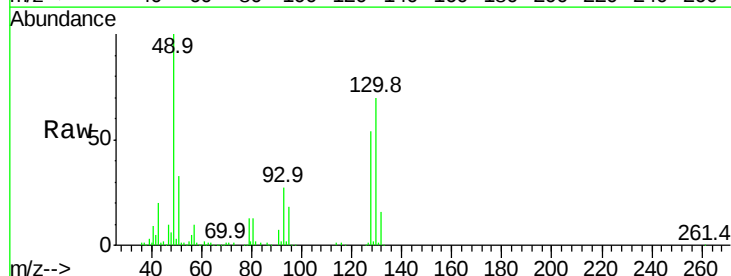
#25
Ethyl Acetate
Concen: 0.43 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
MDL-AIR-03-OT1-2022DL
Acq: 21 Mar 2022 20:48

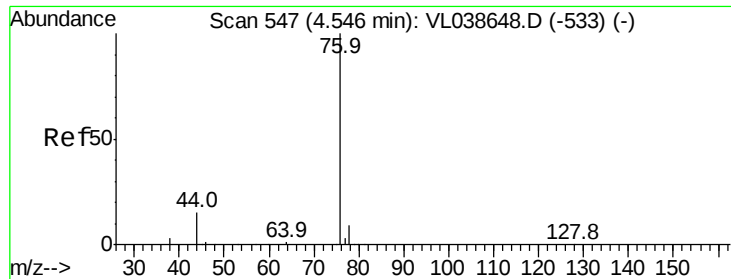
Tgt Ion: 43 Resp: 84874
Ion Ratio Lower Upper
43 100
45 11.3 8.2 12.4
61 11.8 8.3 12.5
70 8.3 5.6 8.4



#26
Hexane
Concen: 0.40 ppbv
RT: 5.68 min Scan# 900
Delta R.T.: 0.00 min
Lab File: VL038659.D
Acq: 21 Mar 2022 20:48

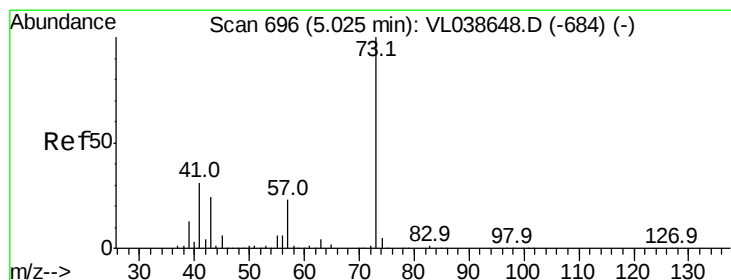
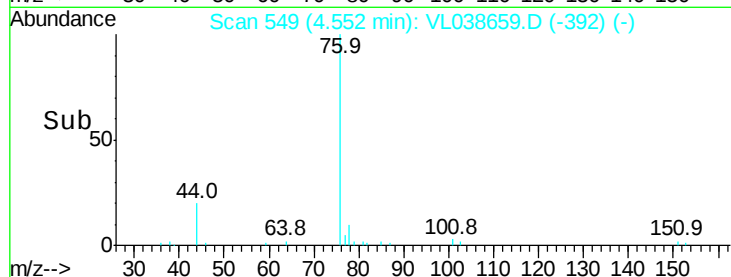
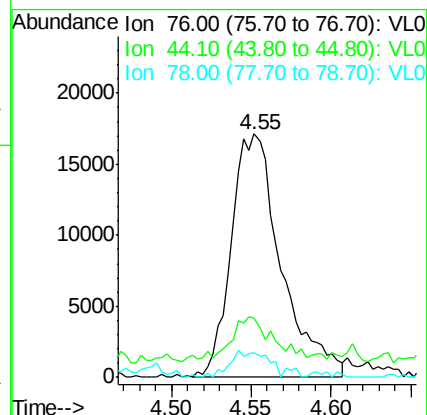
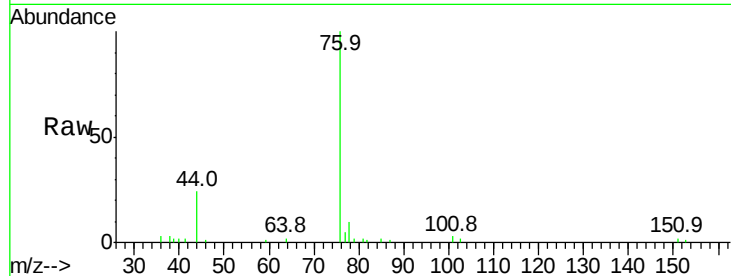
Tgt Ion: 57 Resp: 35440
Ion Ratio Lower Upper
57 100
41 103.6 67.0 100.4#
43 257.8 184.2 276.2
56 60.9 42.6 64.0





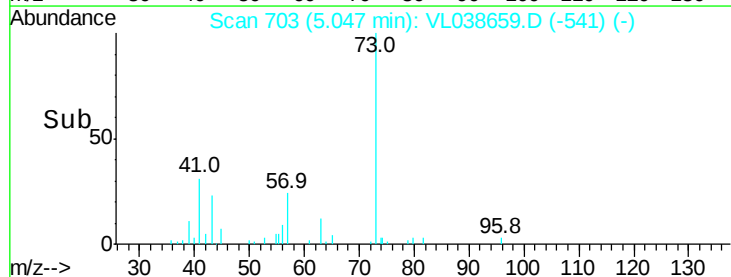
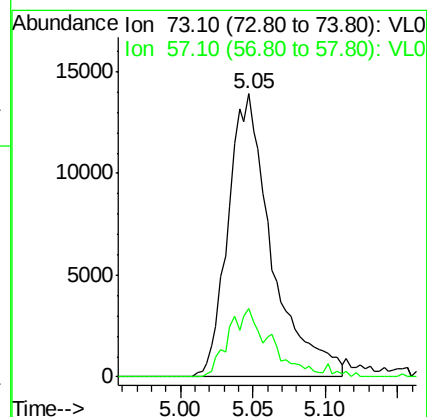
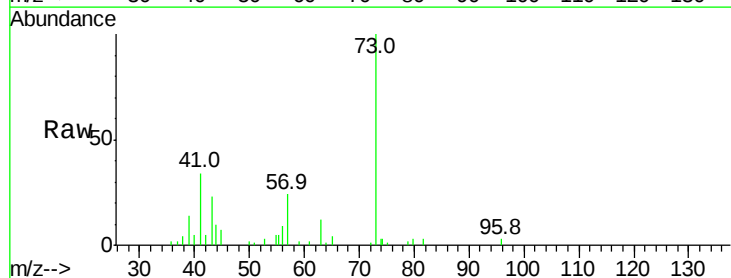
#27
 Carbon Disulfide
 Concen: 0.42 ppbv
 RT: 4.55
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL-AIR-03-OT1-2022DL
 Acq: 21 Mar 2022 20:48

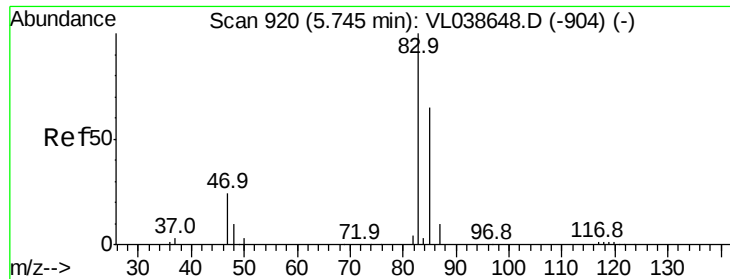
Tgt Ion: 76 Resp: 36472
 Ion Ratio Lower Upper
 76 100
 44 17.5 12.4 18.6
 78 10.0 7.8 11.8



#28
 Methyl tert-Butyl Ether
 Concen: 0.44 ppbv
 RT: 5.05 min Scan# 703
 Delta R.T. 0.02 min
 Lab File: VL038659.D
 Acq: 21 Mar 2022 20:48

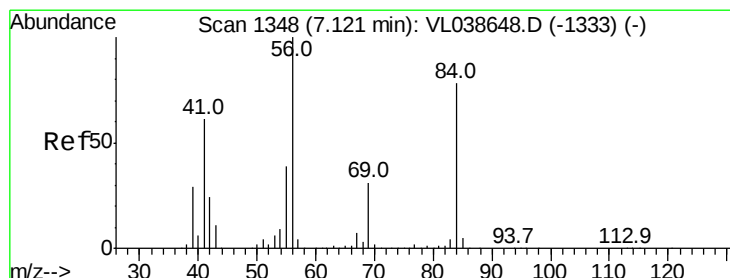
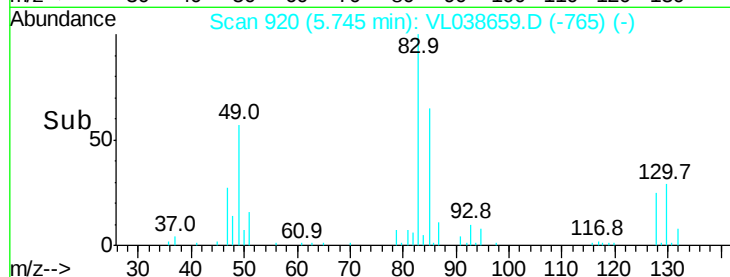
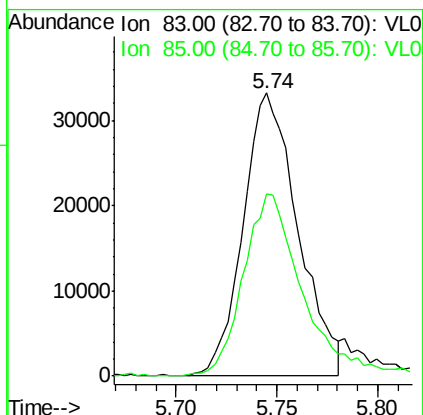
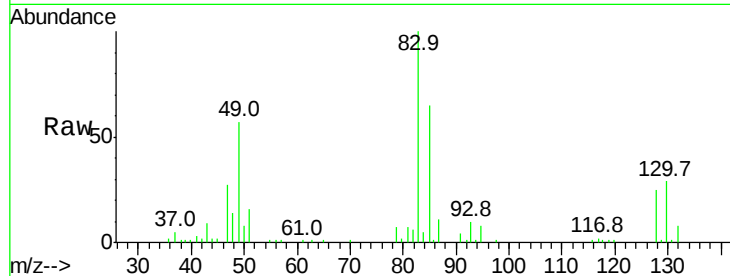
Tgt Ion: 73 Resp: 29081
 Ion Ratio Lower Upper
 73 100
 57 24.7 19.2 28.8





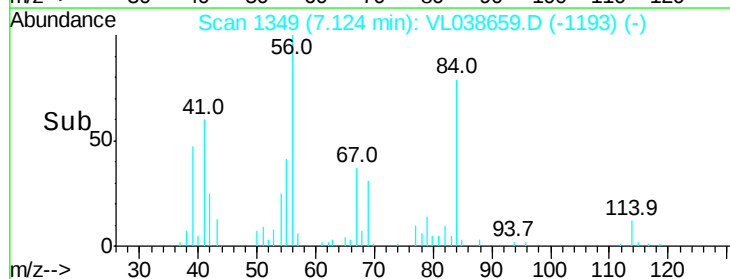
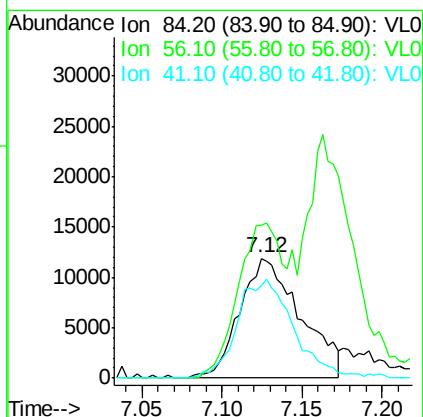
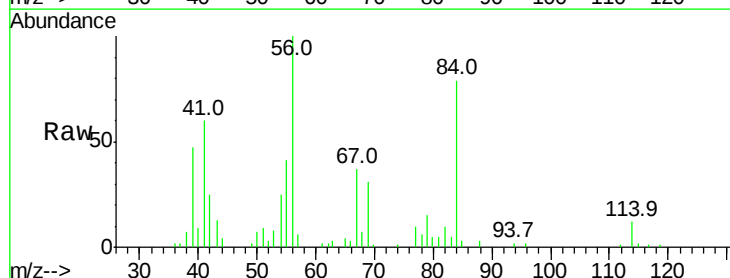
#29
Chloroform
Concen: 0.45 ppbv
RT: 5.74
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

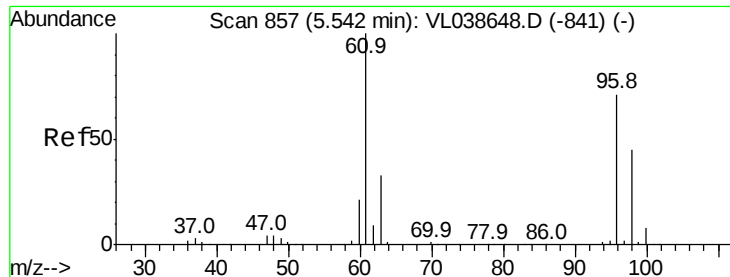
Tgt Ion: 83 Resp: 63148
Ion Ratio Lower Upper
83 100
85 63.7 51.7 77.5



#30
Cyclohexane
Concen: 0.40 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. 0.00 min
Lab File: VL038659.D
Acq: 21 Mar 2022 20:48

Tgt Ion: 84 Resp: 31168
Ion Ratio Lower Upper
84 100
56 108.1 108.2 162.4#
41 76.6 61.8 92.6





#31

cis-1,2-Dichloroethene

Concen: 0.38 ppbv

RT: 5.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

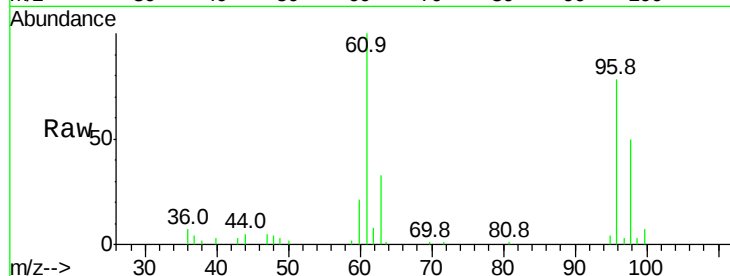
Tgt Ion: 61 Resp: 31943

Ion Ratio Lower Upper

61 100

96 78.0 56.6 84.8

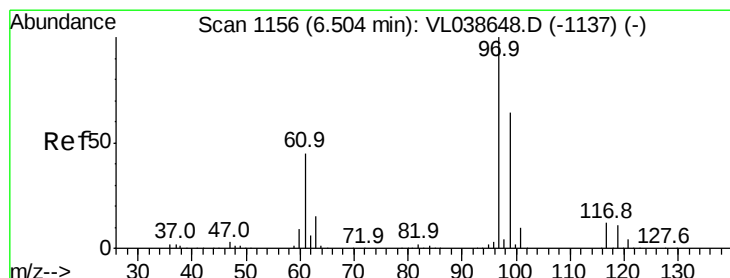
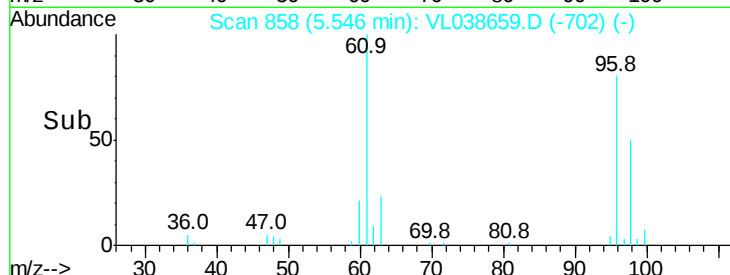
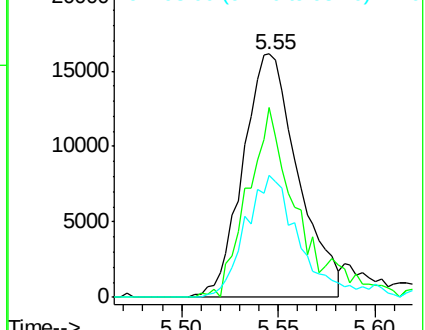
98 52.6 36.3 54.5



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: 0.23 ppbv

RT: 6.51 min Scan# 1157

Delta R.T. 0.00 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

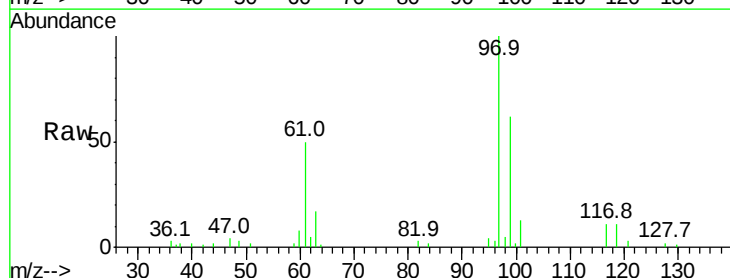
Tgt Ion: 97 Resp: 31593

Ion Ratio Lower Upper

97 100

99 124.8 51.8 77.8#

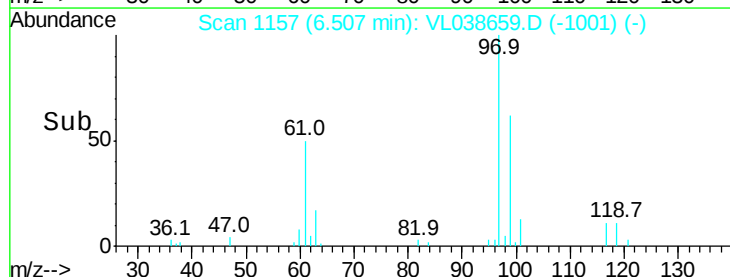
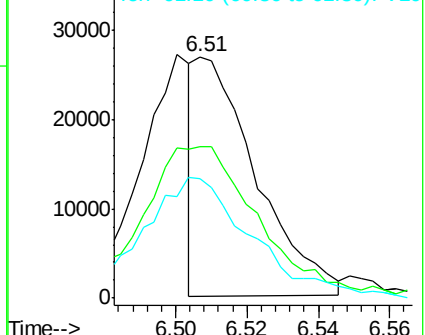
61 93.0 36.7 55.1#

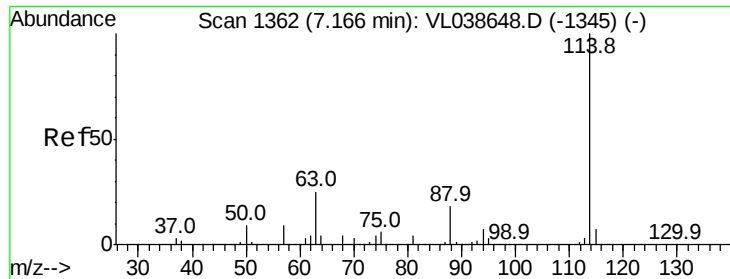


Abundance Ion 97.00 (96.70 to 97.70): VL0

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:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

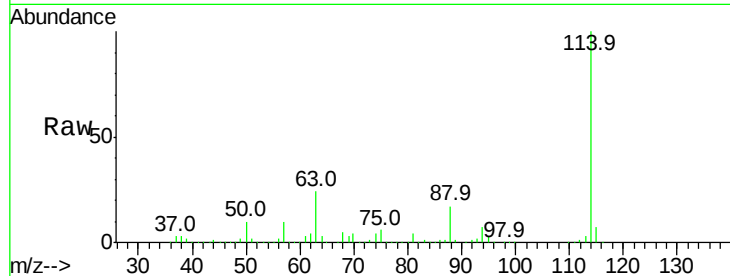
Tgt Ion: 114 Resp: 2363628

Ion Ratio Lower Upper

114 100

63 24.1 19.4 29.0

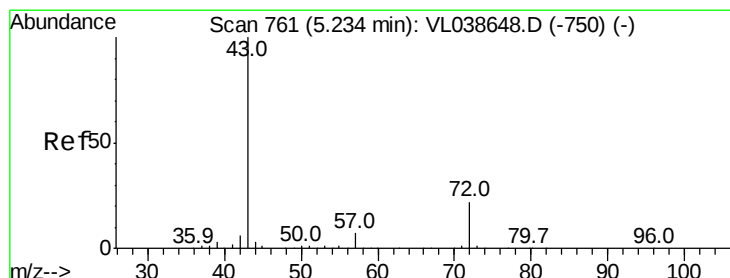
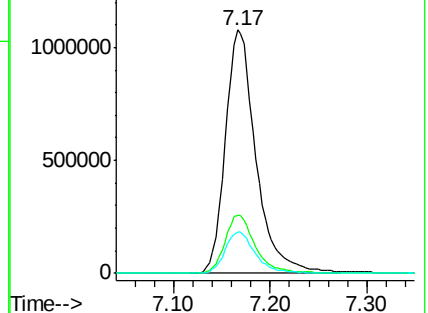
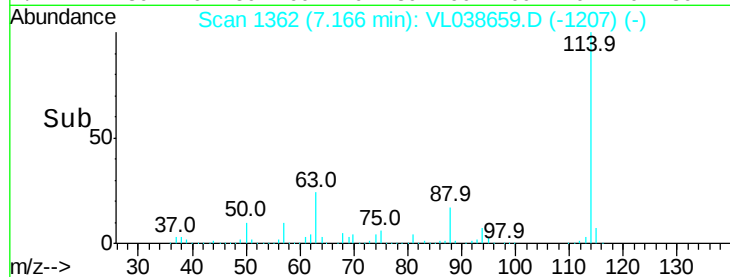
88 17.4 13.9 20.9



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: 0.49 ppbv

RT: 5.26 min Scan# 769

Delta R.T. 0.03 min

Lab File: VL038659.D

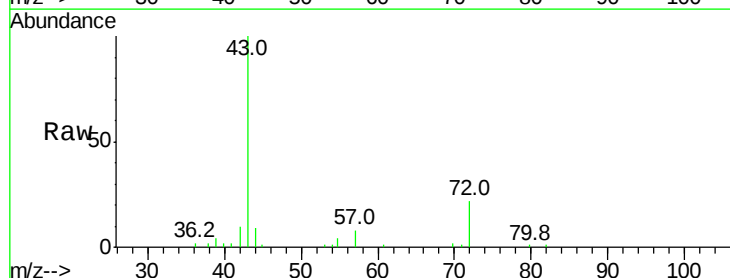
Acq: 21 Mar 2022 20:48

Tgt Ion: 43 Resp: 45446

Ion Ratio Lower Upper

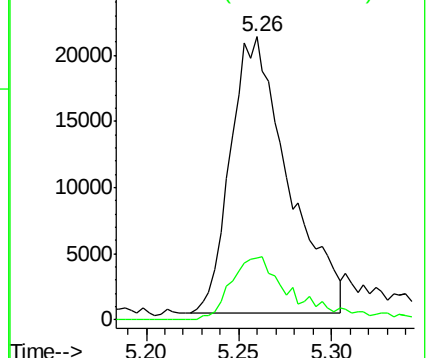
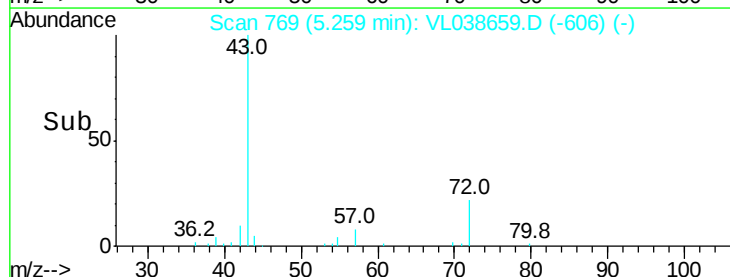
43 100

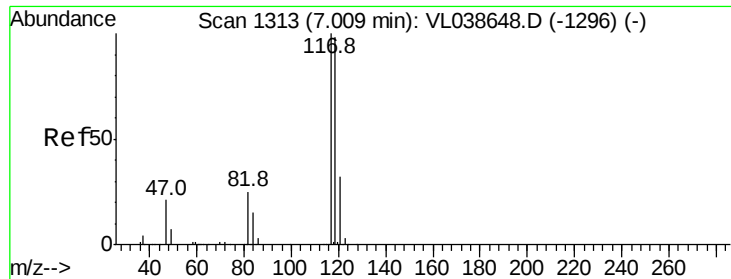
72 25.4 17.8 26.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.43 ppbv

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

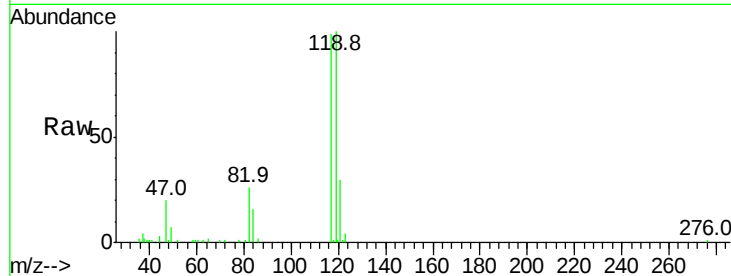
Tgt Ion: 117 Resp: 58909

Ion Ratio Lower Upper

117 100

119 101.6 78.1 117.1

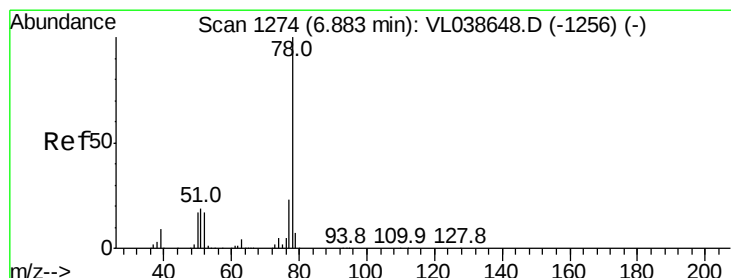
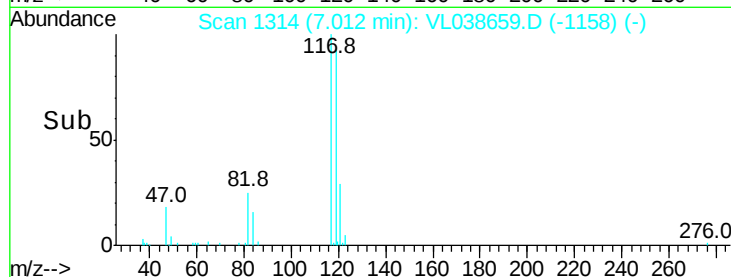
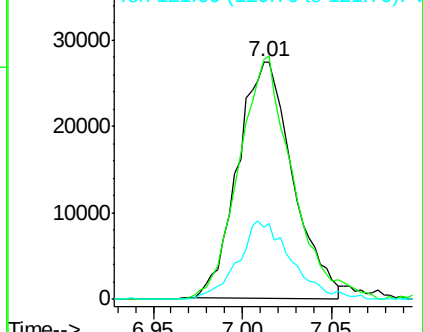
121 30.4 25.8 38.6



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: 0.41 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.00 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

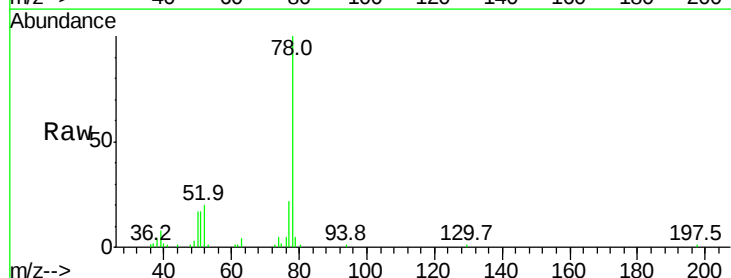
Tgt Ion: 78 Resp: 75071

Ion Ratio Lower Upper

78 100

77 22.2 18.1 27.1

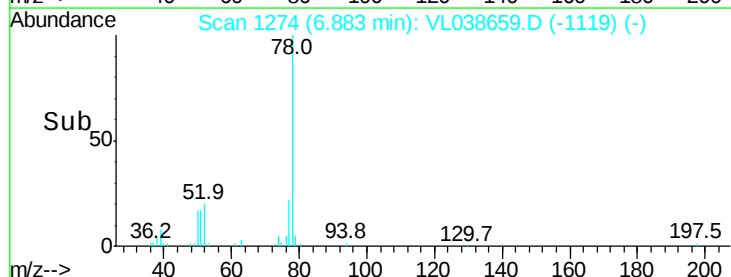
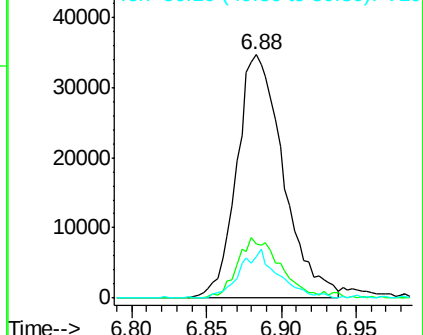
50 16.8 13.6 20.4

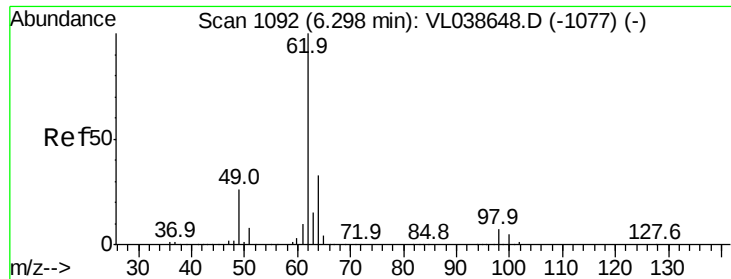


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

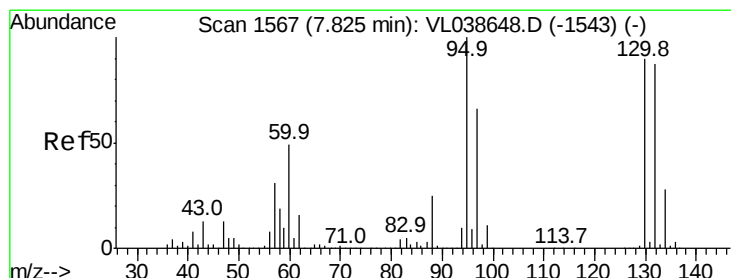
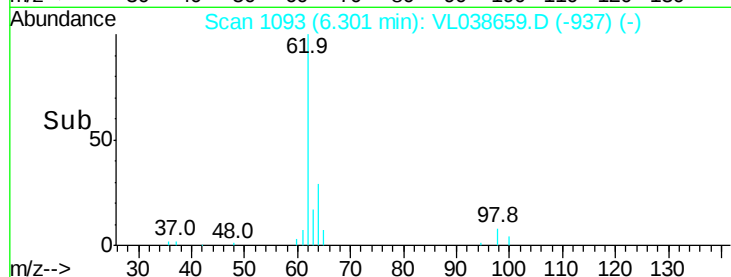
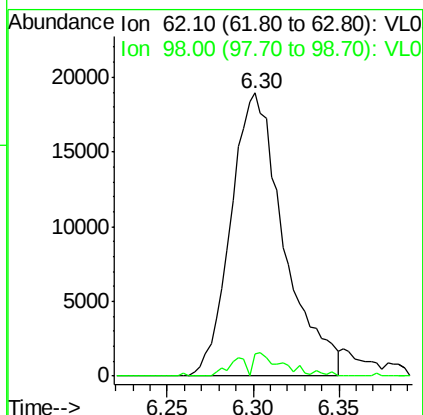
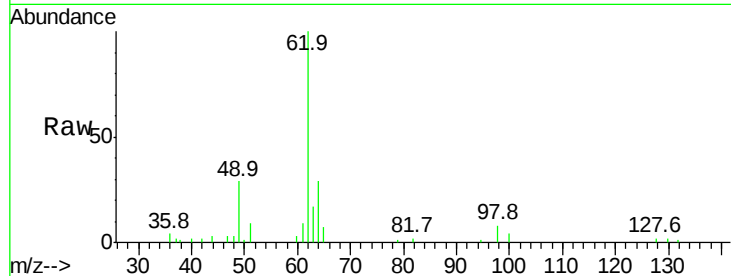
Ion 50.10 (49.80 to 50.80): VL0





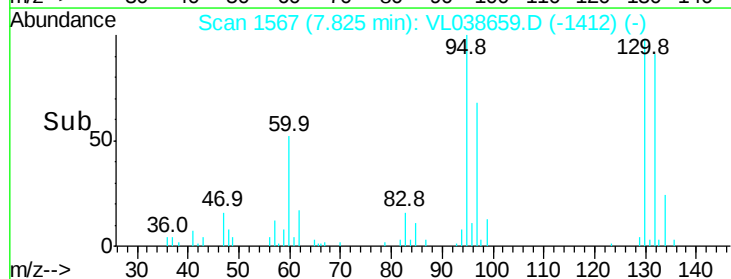
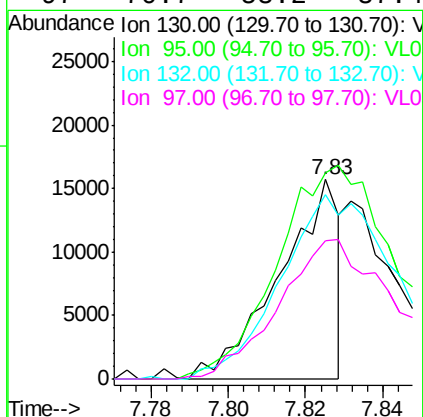
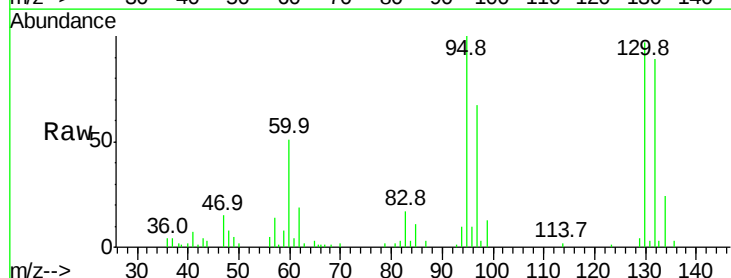
#37
 1,2-Dichloroethane
 Concen: 0.44 ppbv
 RT: 6.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL-AIR-03-OT1-2022DL
 Acq: 21 Mar 2022 20:48

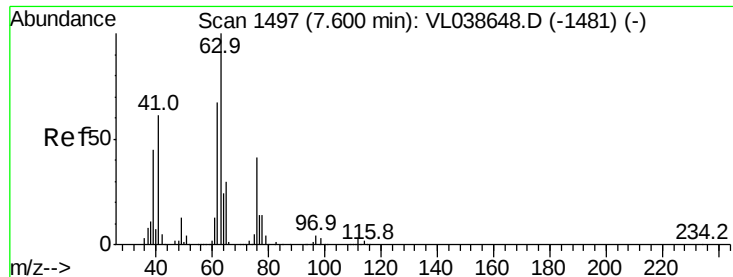
Tgt Ion: 62 Resp: 40633
 Ion Ratio Lower Upper
 62 100
 98 7.0 5.6 8.4



#38
 Trichloroethene
 Concen: 0.22 ppbv
 RT: 7.83 min Scan# 1567
 Delta R.T. -0.00 min
 Lab File: VL038659.D
 Acq: 21 Mar 2022 20:48

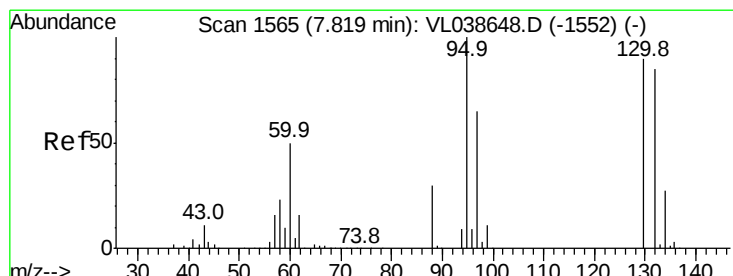
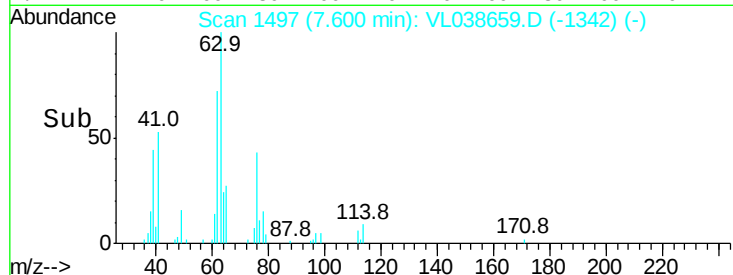
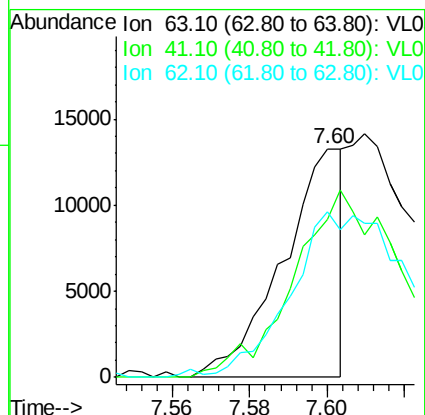
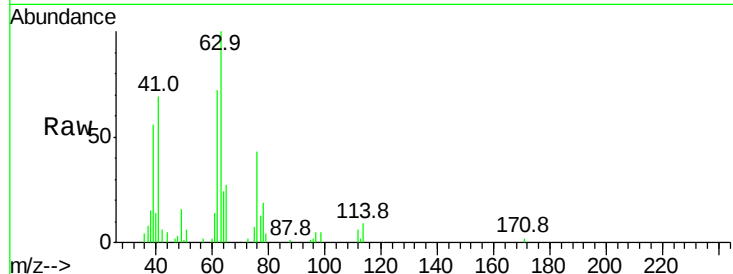
Tgt Ion: 130 Resp: 16786
 Ion Ratio Lower Upper
 130 100
 95 101.0 88.9 133.3
 132 95.9 77.4 116.0
 97 70.7 58.2 87.4





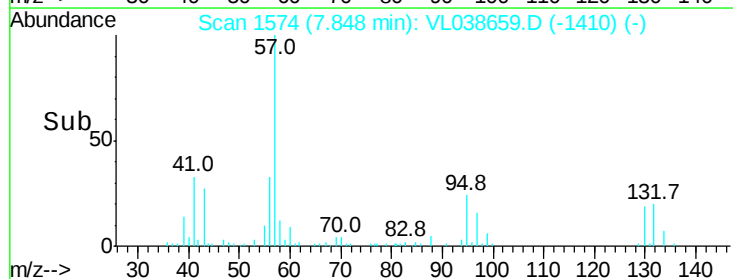
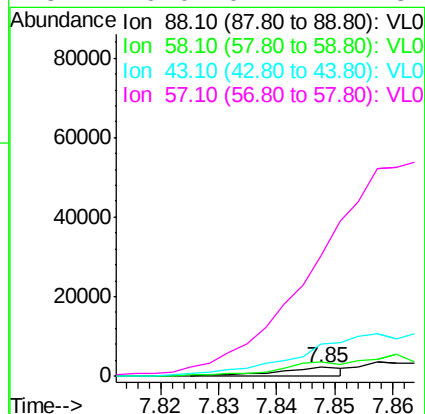
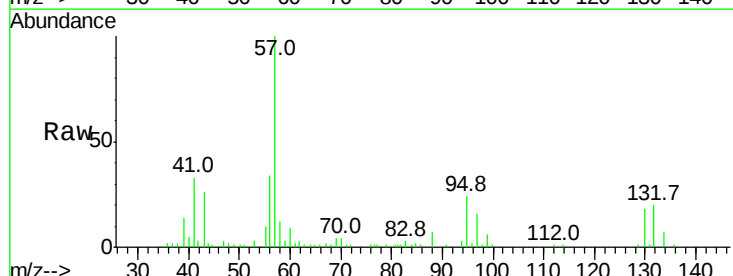
#39
 1,2-Dichloropropane
 Concen: 0.20 ppbv
 RT: 7.60
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 MDL-AIR-03-QT1-2022DL
 Acq: 21 Mar 2022 20:48

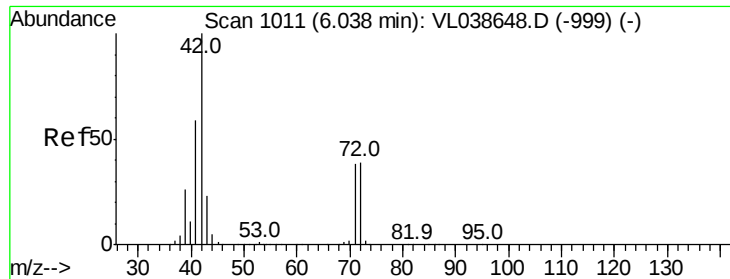
Tgt Ion: 63 Resp: 14446
 Ion Ratio Lower Upper
 63 100
 41 69.3 49.0 73.6
 62 68.9 53.9 80.9



#40
 1,4-Dioxane
 Concen: 0.07 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T.: 0.03 min
 Lab File: VL038659.D
 Acq: 21 Mar 2022 20:48

Tgt Ion: 88 Resp: 1657
 Ion Ratio Lower Upper
 88 100
 58 0.0 105.6 158.4#
 43 0.0 201.9 302.9#
 57 0.0 942.1 1413.1#





#41

Tetrahydrofuran

Concen: 0.31 ppbv

RT: 6.07 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

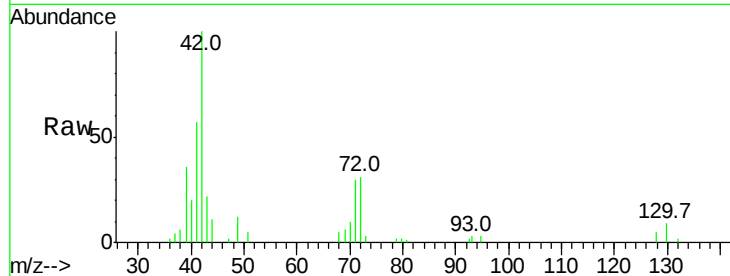
Tgt Ion: 42 Resp: 21347

Ion Ratio Lower Upper

42 100

72 45.5 32.5 48.7

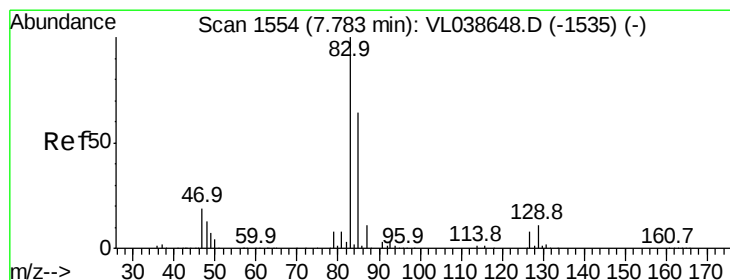
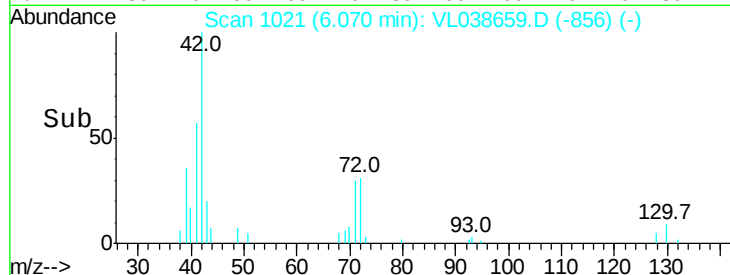
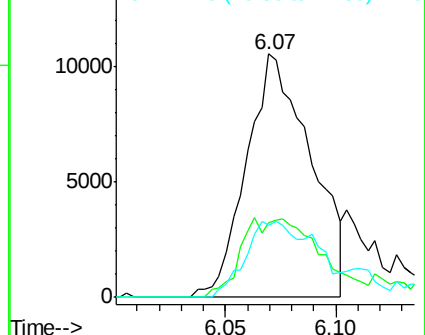
71 44.5 31.4 47.2



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.44 ppbv

RT: 7.78 min Scan# 1554

Delta R.T. -0.00 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

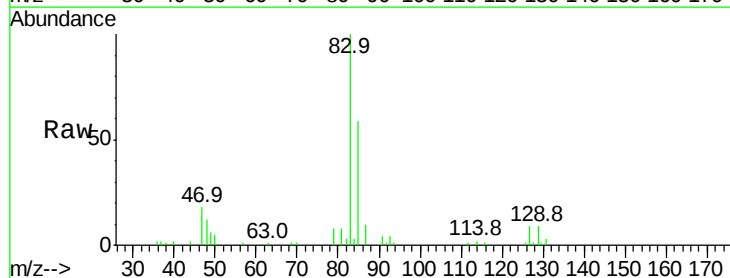
Tgt Ion: 83 Resp: 61780

Ion Ratio Lower Upper

83 100

85 59.1 51.1 76.7

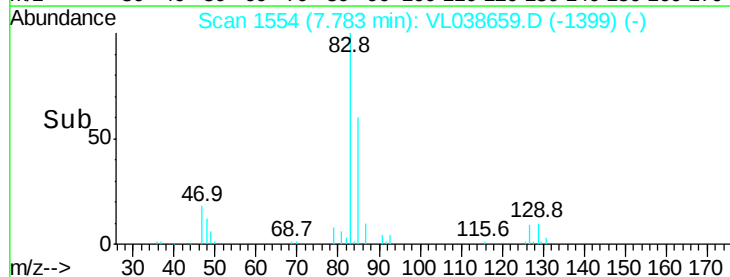
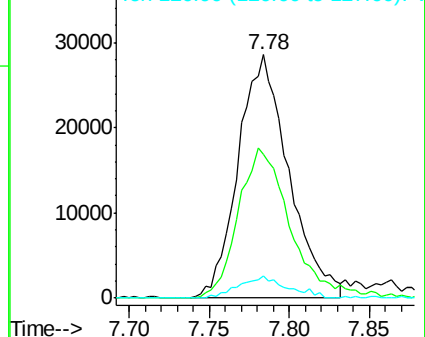
127 9.1 6.5 9.7

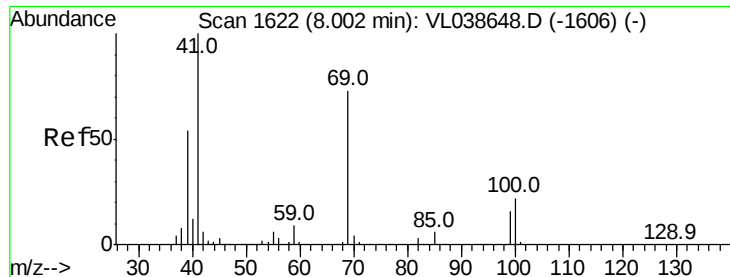


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

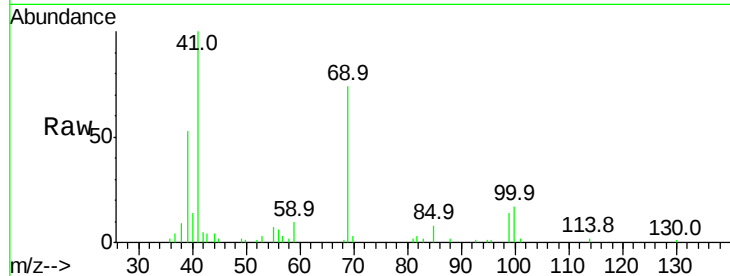
Ion 126.90 (126.60 to 127.60): V



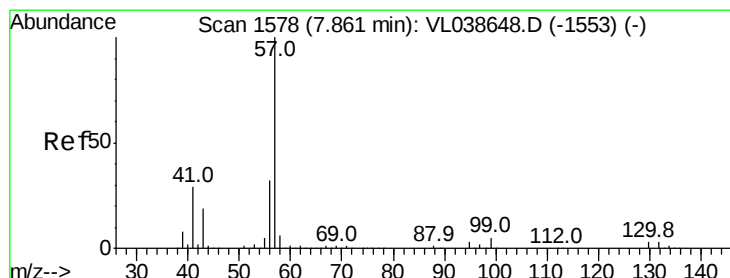
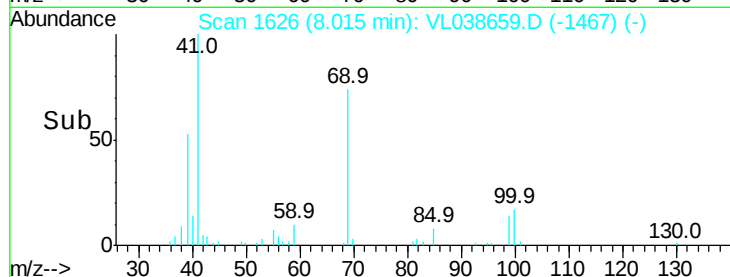
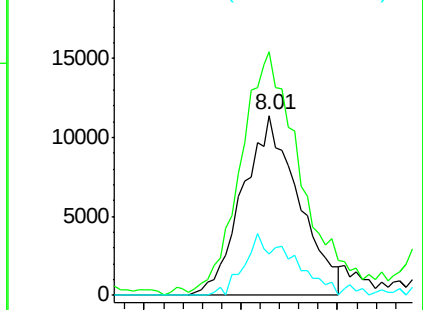


#43
Methyl Methacrylate
Concen: 0.34 ppbv
RT: 8.01
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion: 69 Resp: 22988
Ion Ratio Lower Upper
69 100
41 148.4 110.3 165.5
100 31.2 24.8 37.2

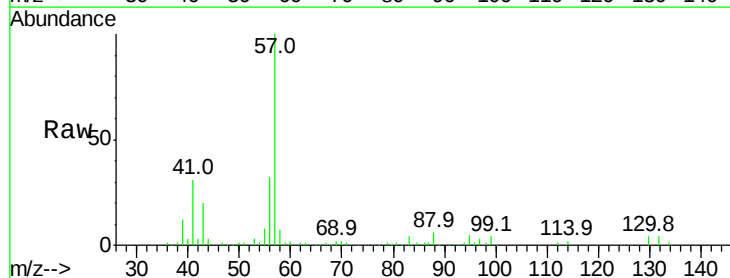


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

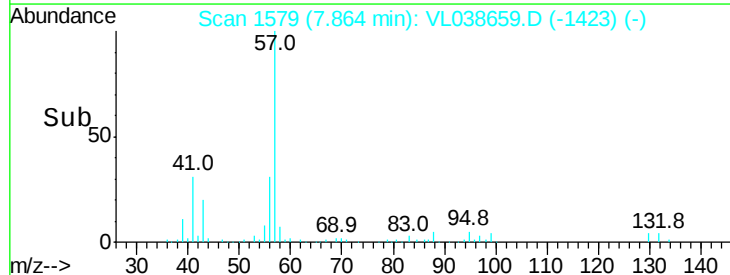
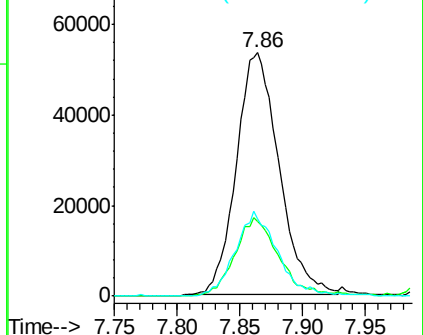


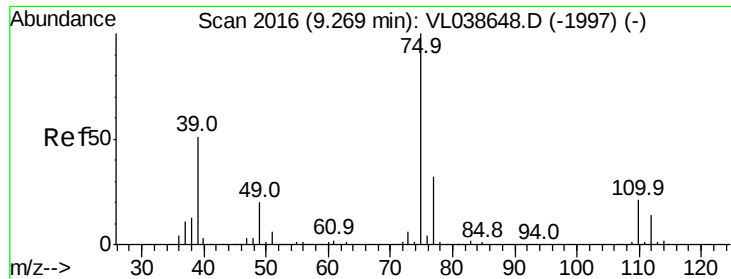
#44
2,2,4-Trimethylpentane
Concen: 0.41 ppbv
RT: 7.86 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VL038659.D
Acq: 21 Mar 2022 20:48

Tgt Ion: 57 Resp: 126901
Ion Ratio Lower Upper
57 100
41 33.7 23.0 34.4
56 34.7 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





#45

t-1,3-Dichloropropene

Concen: 0.23 ppbv

RT: 9.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

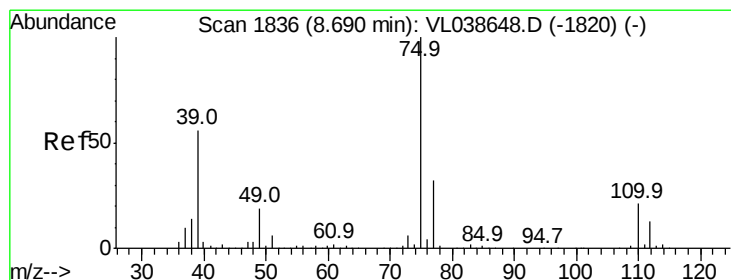
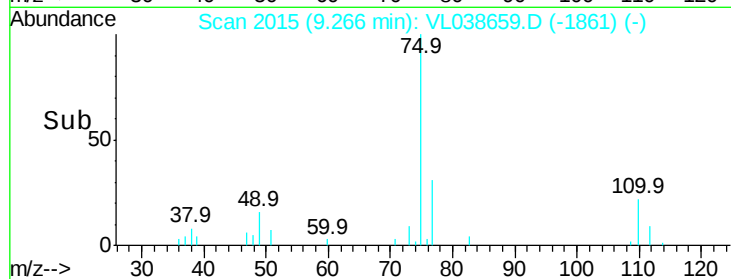
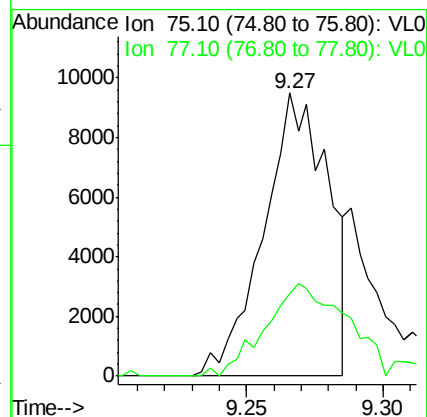
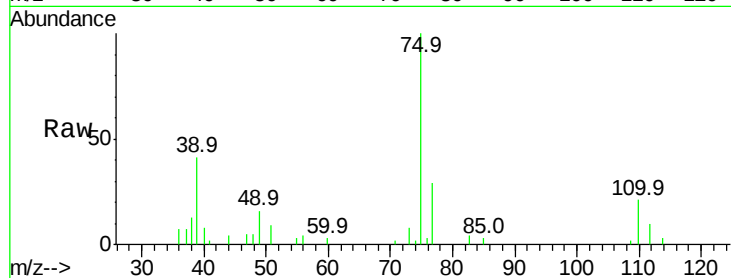
Acq: 21 Mar 2022 20:48 MDL-AIR-03-QT1-2022DL

Tgt Ion: 75 Resp: 15651

Ion Ratio Lower Upper

75 100

77 28.2 25.5 38.3



#46

cis-1,3-Dichloropropene

Concen: 0.20 ppbv

RT: 8.69 min Scan# 1837

Delta R.T. 0.00 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

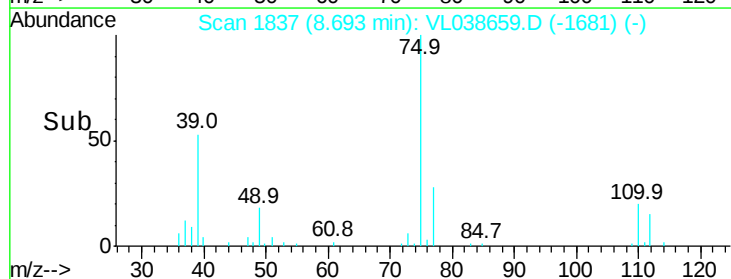
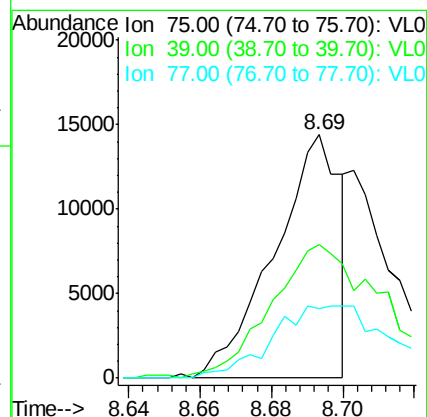
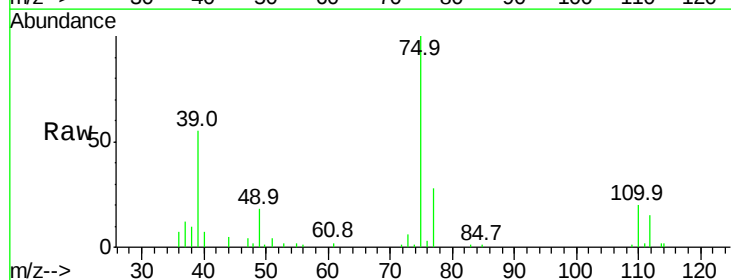
Tgt Ion: 75 Resp: 18454

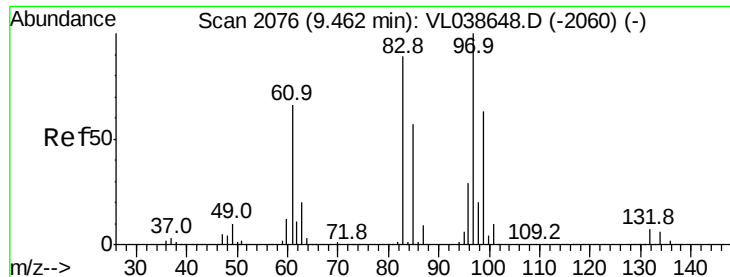
Ion Ratio Lower Upper

75 100

39 53.0 44.8 67.2

77 28.3 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 0.45 ppbv

RT: 9.47 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion: 97 Resp: 34202

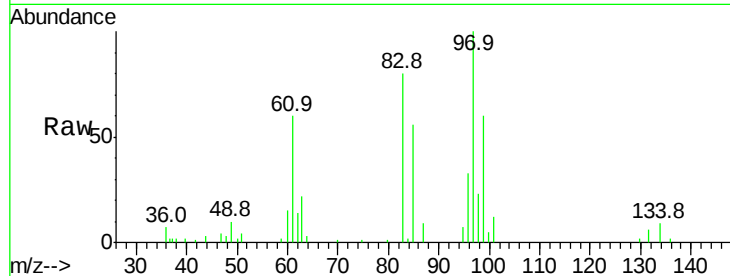
Ion Ratio Lower Upper

97 100

83 79.8 71.2 106.8

85 55.3 45.3 67.9

99 60.0 50.6 76.0

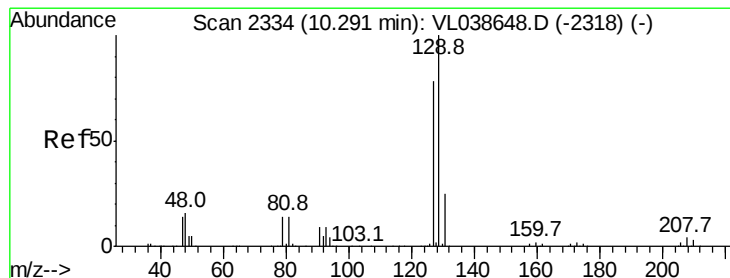
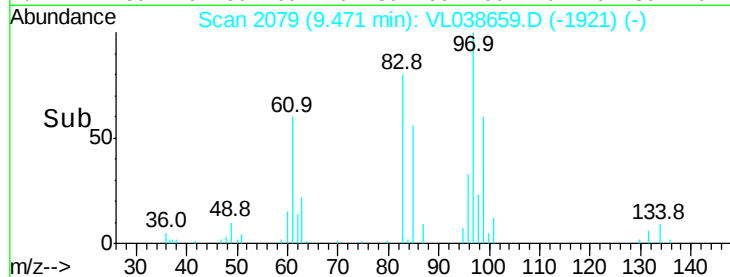
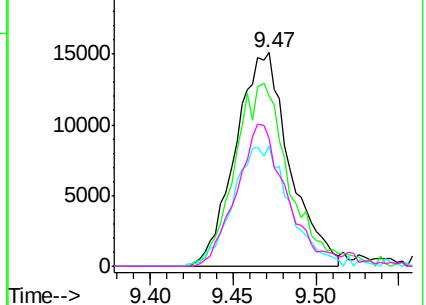


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.40 ppbv

RT: 10.29 min Scan# 2335

Delta R.T. 0.00 min

Lab File: VL038659.D

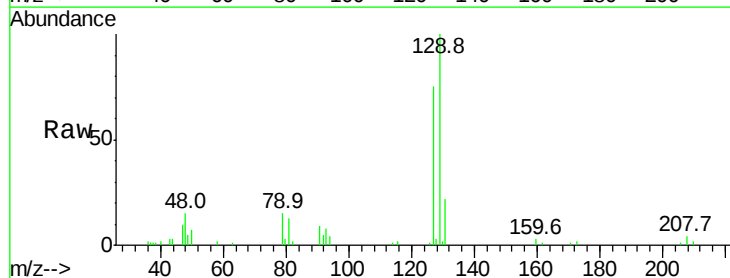
Acq: 21 Mar 2022 20:48

Tgt Ion: 129 Resp: 48119

Ion Ratio Lower Upper

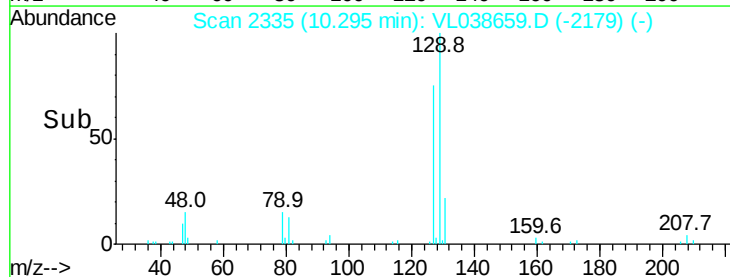
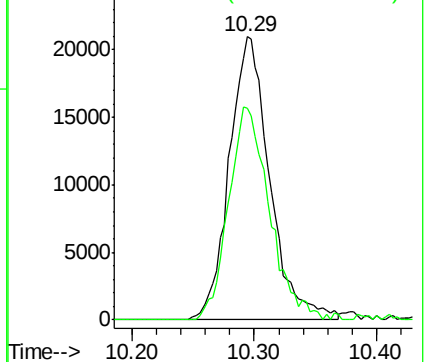
129 100

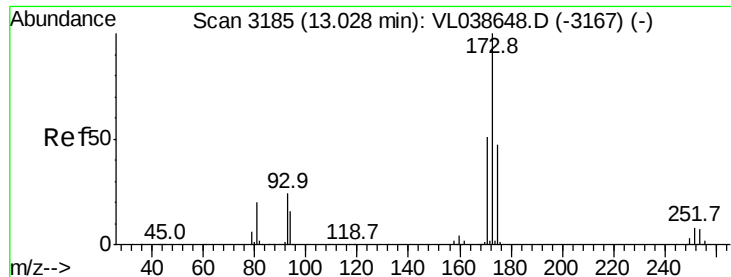
127 76.5 39.5 118.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.20 ppbv

RT: 13.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

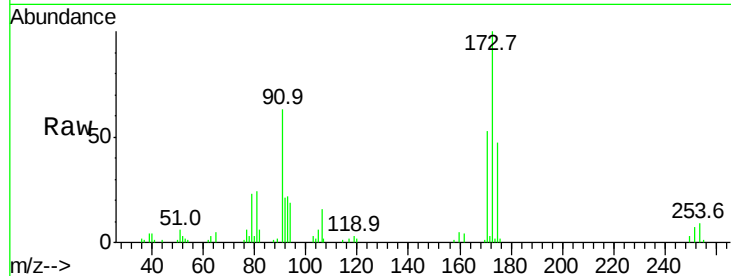
Tgt Ion: 173 Resp: 19597

Ion Ratio Lower Upper

173 100

175 94.3 41.0 61.6#

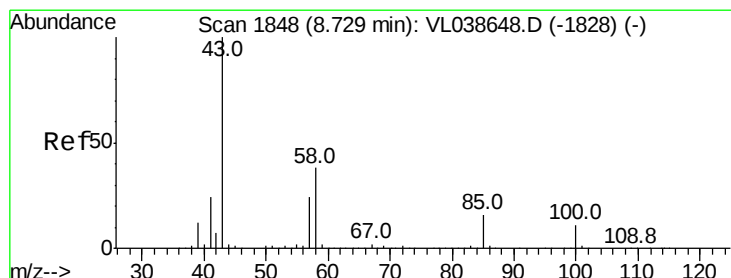
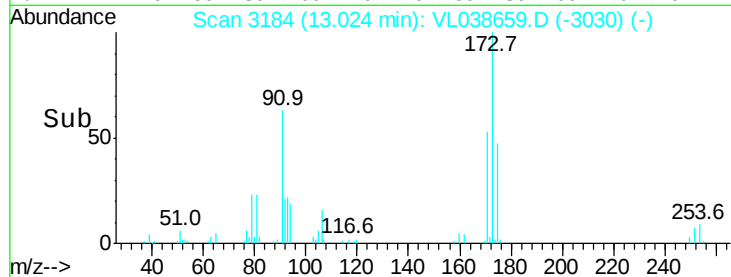
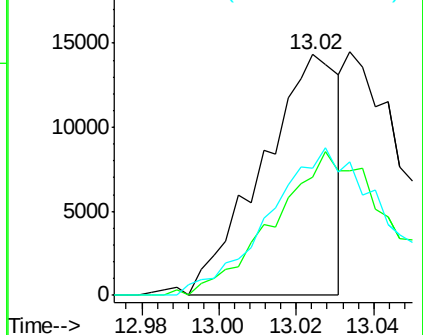
171 101.0 43.1 64.7#



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: 0.35 ppbv

RT: 8.75 min Scan# 1856

Delta R.T. 0.03 min

Lab File: VL038659.D

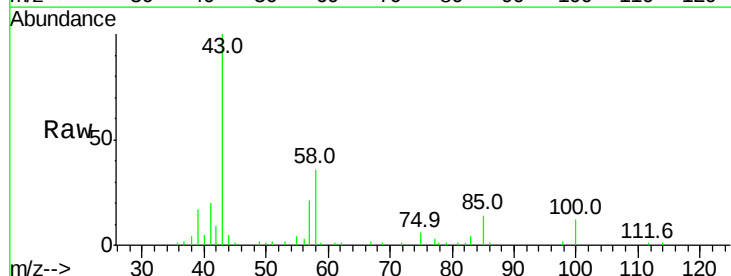
Acq: 21 Mar 2022 20:48

Tgt Ion: 43 Resp: 60859

Ion Ratio Lower Upper

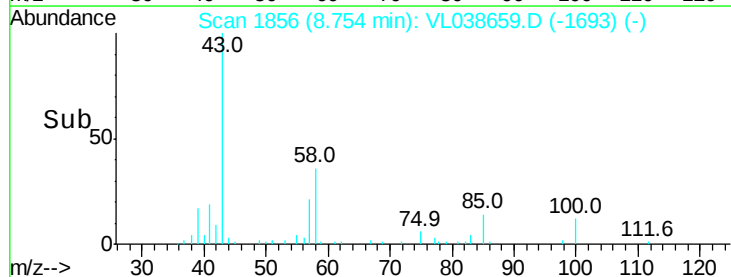
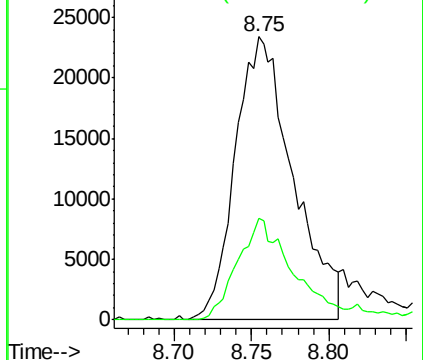
43 100

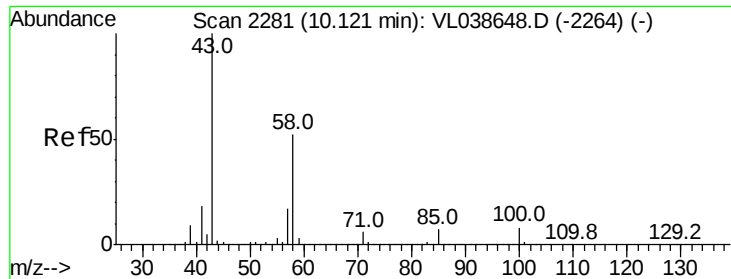
58 38.0 29.9 44.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

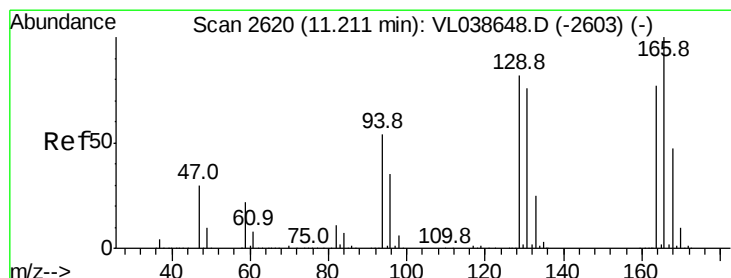
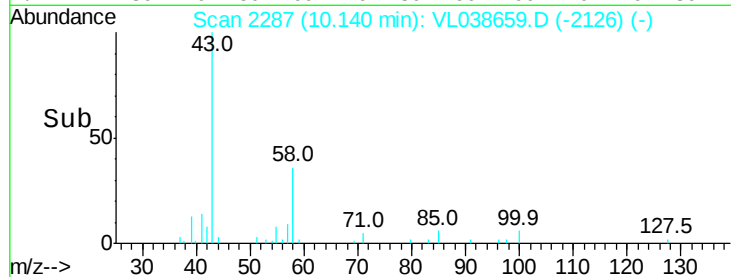
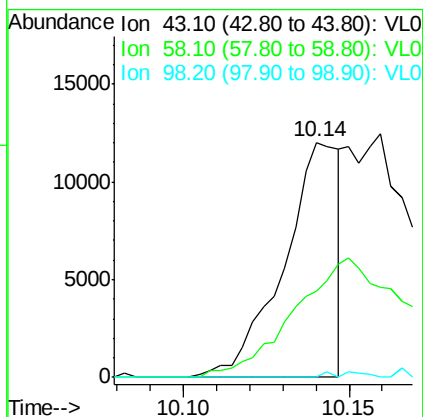
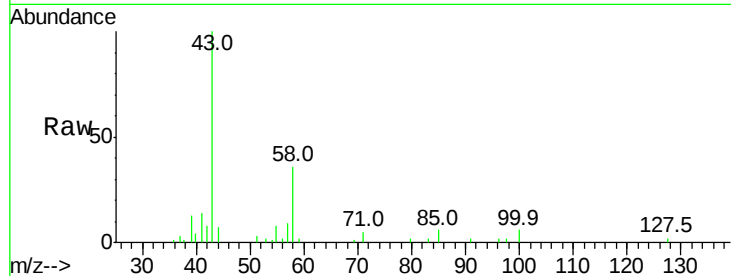
Ion 58.10 (57.80 to 58.80): VL0





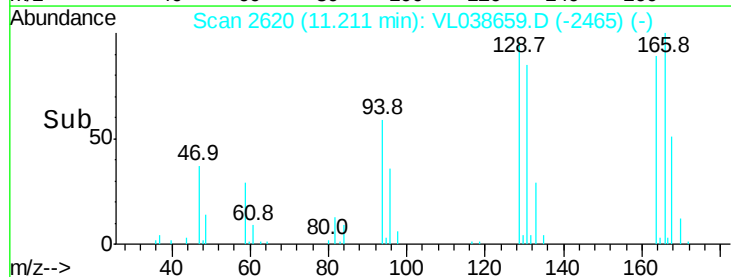
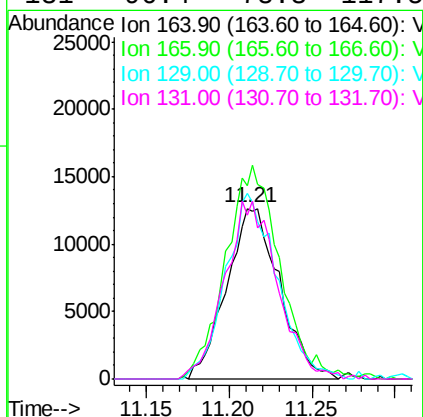
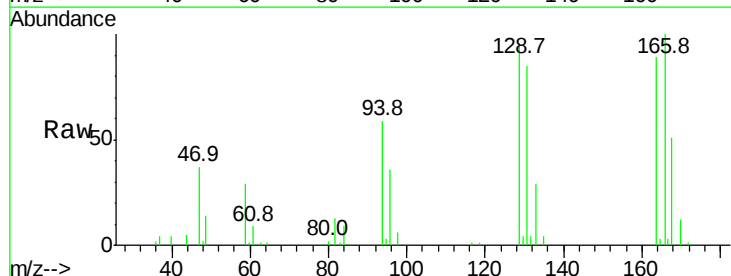
#51
2-Hexanone
Concen: 0.11 ppbv
RT: 10.14 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
MDL-AIR-03-OT1-2022DL
Acq: 21 Mar 2022 20:48

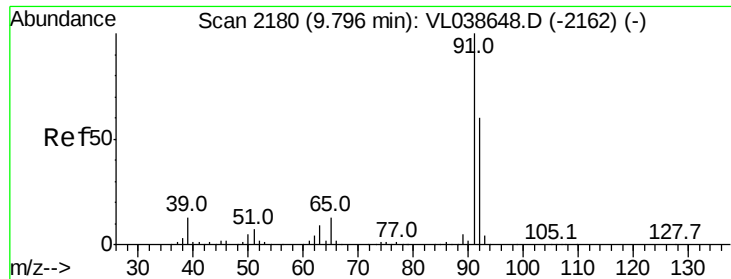
Tgt Ion: 43 Resp: 14141
Ion Ratio Lower Upper
43 100
58 0.0 41.2 61.8#
98 0.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.42 ppbv
RT: 11.21 min Scan# 2620
Delta R.T.: -0.00 min
Lab File: VL038659.D
Acq: 21 Mar 2022 20:48

Tgt Ion: 164 Resp: 28092
Ion Ratio Lower Upper
164 100
166 108.4 103.3 154.9
129 106.4 85.2 127.8
131 96.4 78.3 117.5





#53

Toluene

Concen: 0.35 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

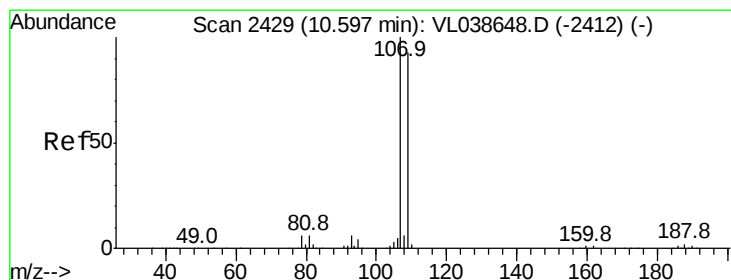
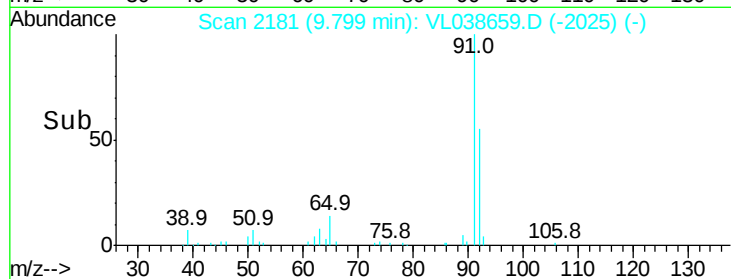
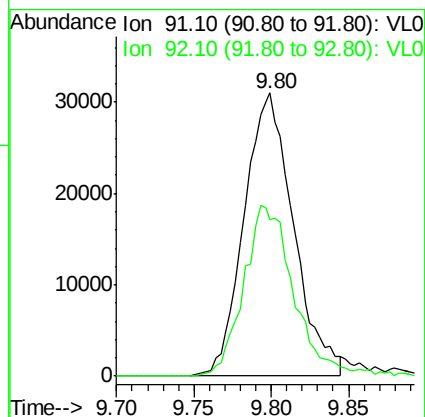
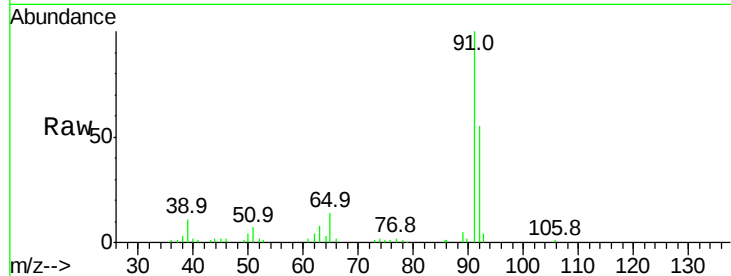
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion: 91 Resp: 68934

Ion Ratio Lower Upper

91 100

92 61.5 48.7 73.1



#54

1,2-Dibromoethane

Concen: 0.41 ppbv

RT: 10.60 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VL038659.D

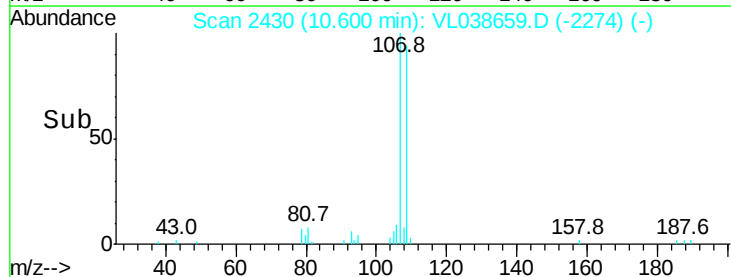
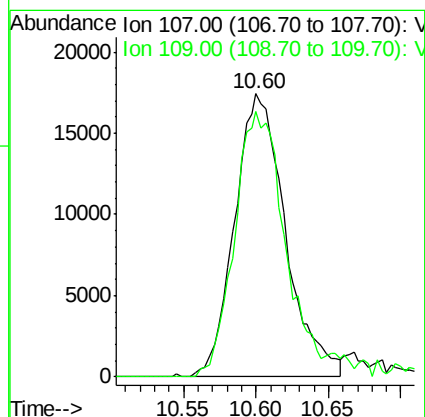
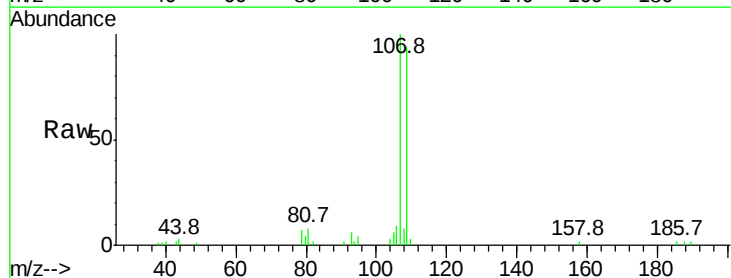
Acq: 21 Mar 2022 20:48

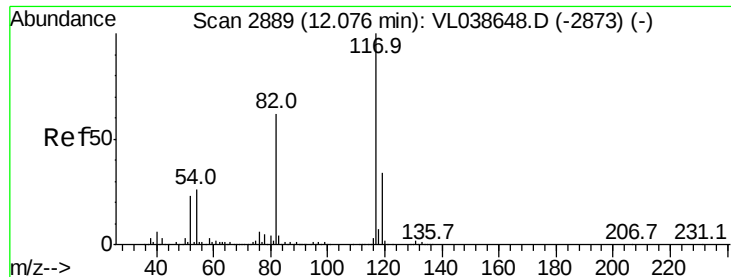
Tgt Ion: 107 Resp: 42542

Ion Ratio Lower Upper

107 100

109 94.0 74.1 111.1

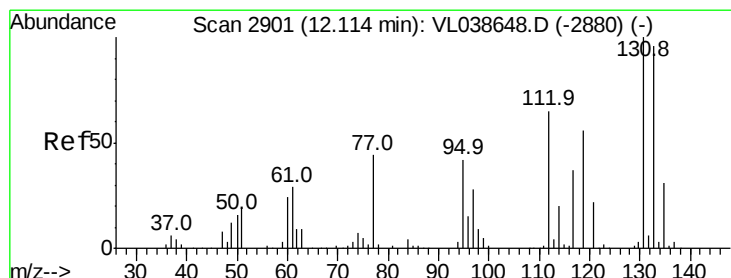
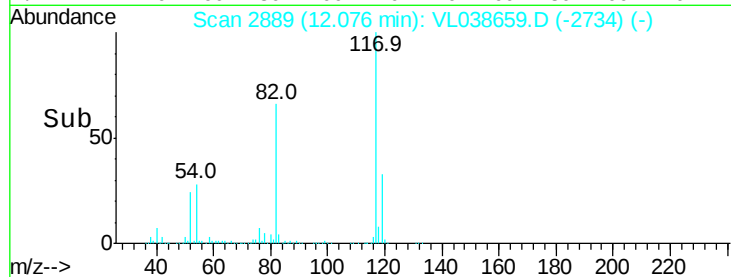
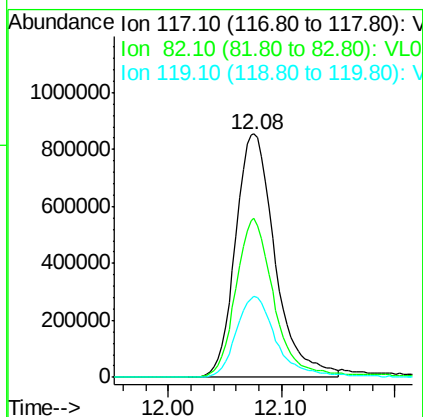
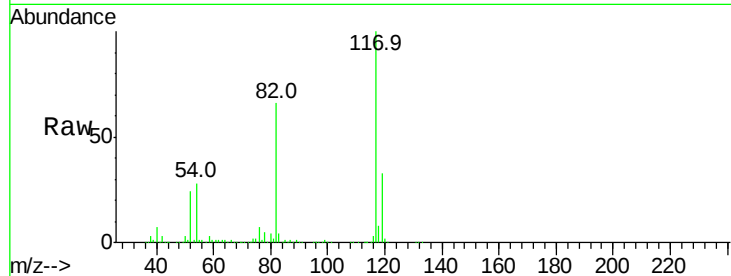




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion:117 Resp: 2086022

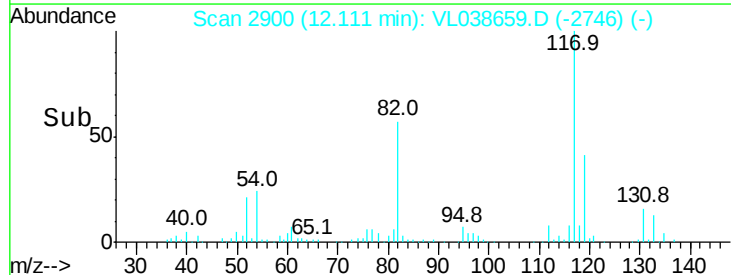
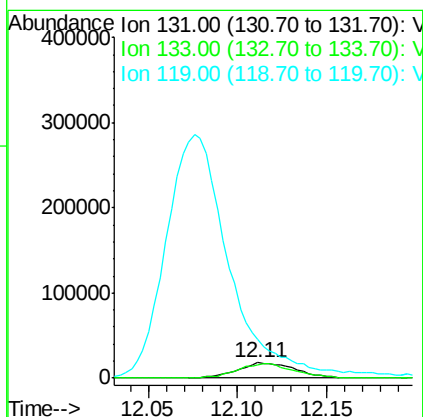
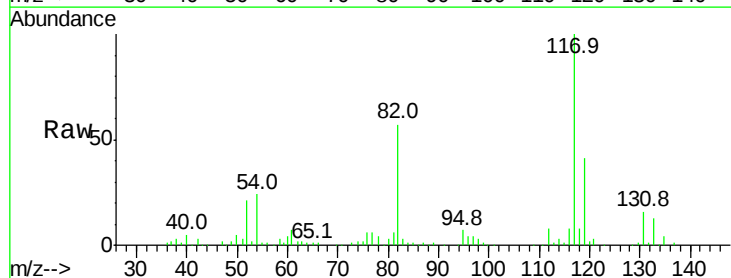
Ion	Ratio	Lower	Upper
117	100		
82	65.0	51.6	77.4
119	34.9	26.9	40.3

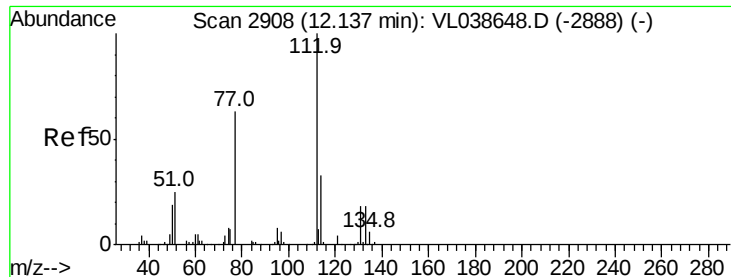


#56
1,1,1,2-Tetrachloroethane
Concen: 0.48 ppbv
RT: 12.11 min Scan# 2900
Delta R.T.: -0.00 min
Lab File: VL038659.D
Acq: 21 Mar 2022 20:48

Tgt Ion:131 Resp: 41345

Ion	Ratio	Lower	Upper
131	100		
133	95.9	77.3	115.9
119	1762.0	53.0	79.6#





#57

Chlorobenzene

Concen: 0.47 ppbv

RT: 12.13

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

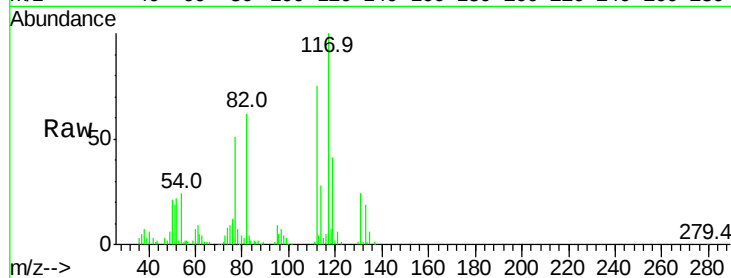
Tgt Ion: 112 Resp: 71353

Ion Ratio Lower Upper

112 100

77 65.0 51.0 76.6

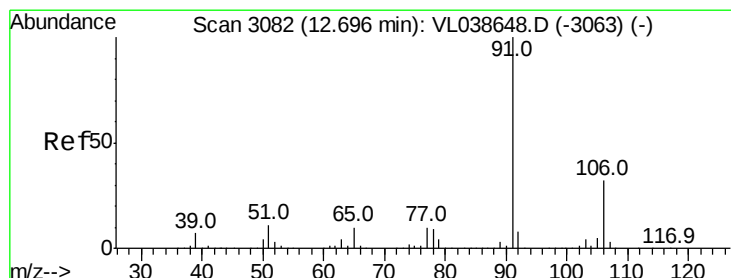
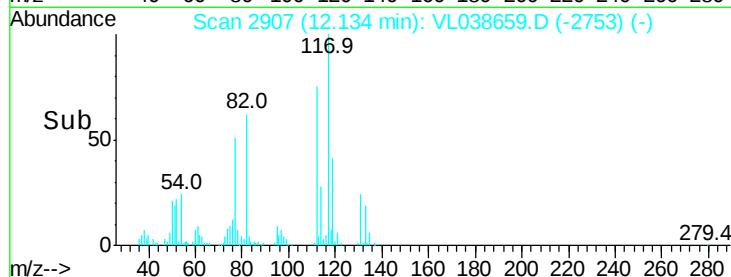
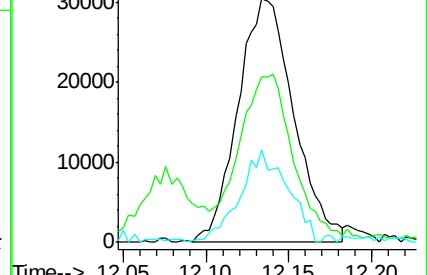
114 41.6 29.8 36.4#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.36 ppbv

RT: 12.70 min Scan# 3084

Delta R.T. 0.01 min

Lab File: VL038659.D

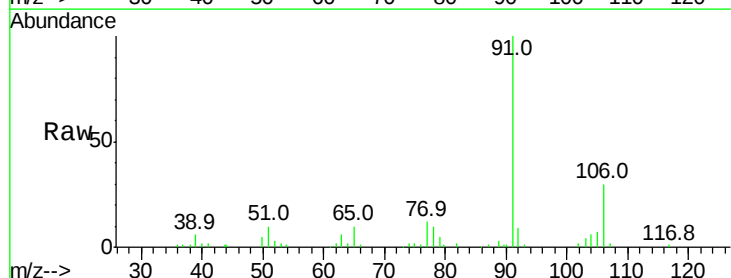
Acq: 21 Mar 2022 20:48

Tgt Ion: 91 Resp: 88670

Ion Ratio Lower Upper

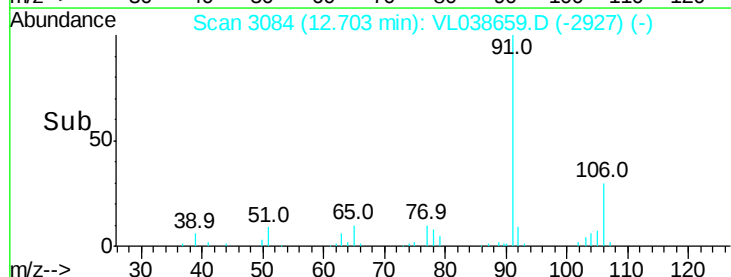
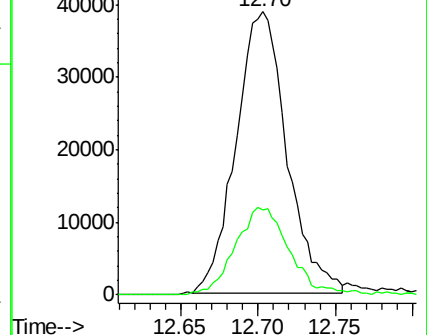
91 100

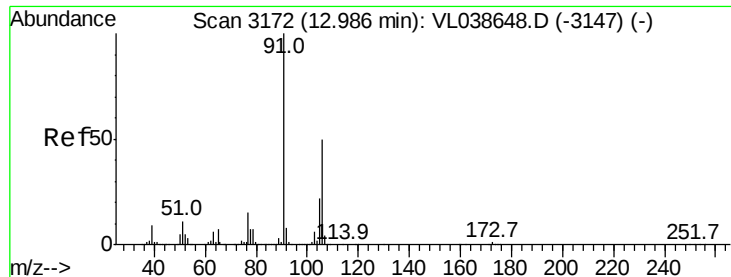
106 29.1 25.4 38.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

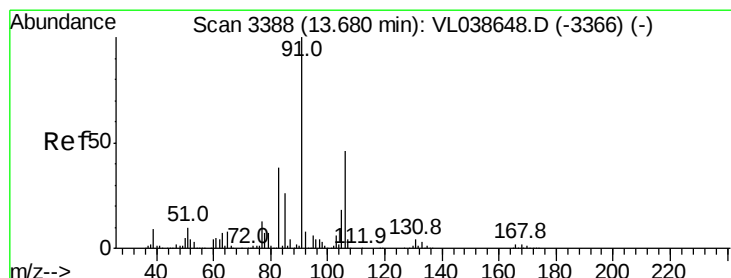
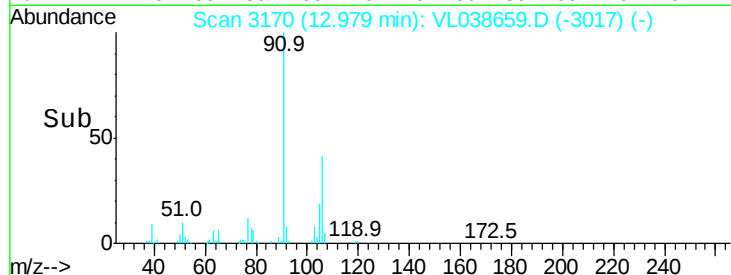
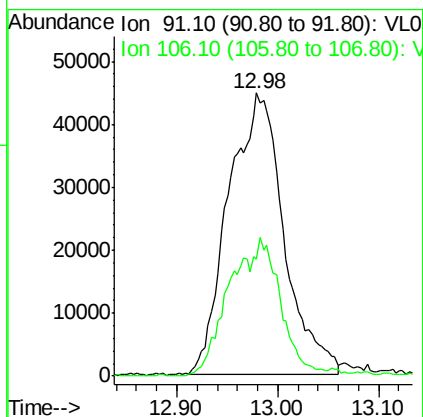
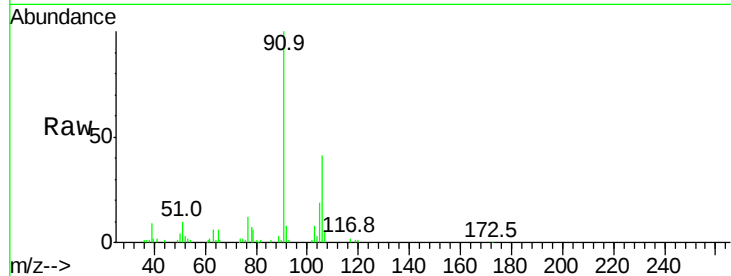
Ion 106.10 (105.80 to 106.80): V





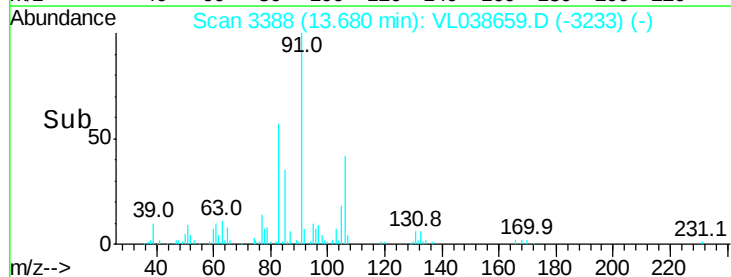
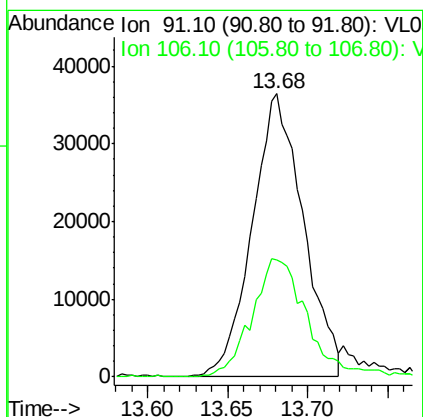
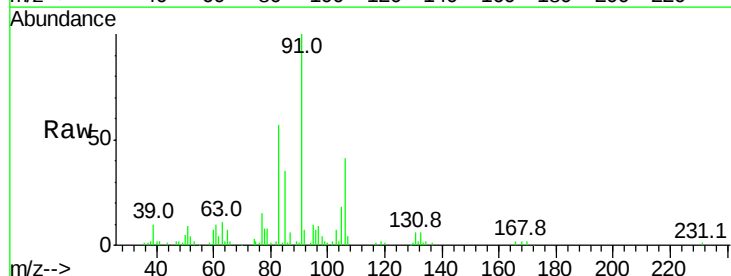
#59
m/p-Xylene
Concen: 0.80 ppbv
RT: 12.98 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 21 Mar 2022 20:48 MDL-AIR-03-QT1-2022DL

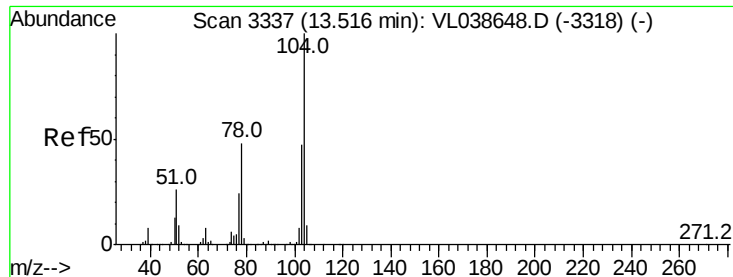
Tgt Ion: 91 Resp: 170402
Ion Ratio Lower Upper
91 100
106 46.2 37.2 55.8



#60
o-Xylene
Concen: 0.40 ppbv
RT: 13.68 min Scan# 3388
Delta R.T.: -0.00 min
Lab File: VL038659.D
Acq: 21 Mar 2022 20:48

Tgt Ion: 91 Resp: 80164
Ion Ratio Lower Upper
91 100
106 45.7 23.5 70.5





#61

Styrene

Concen: 0.31 ppbv

RT: 13.52

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

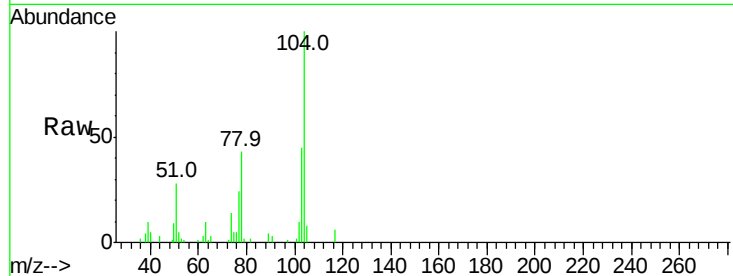
Tgt Ion:104 Resp: 34289

Ion Ratio Lower Upper

104 100

78 51.3 39.0 58.4

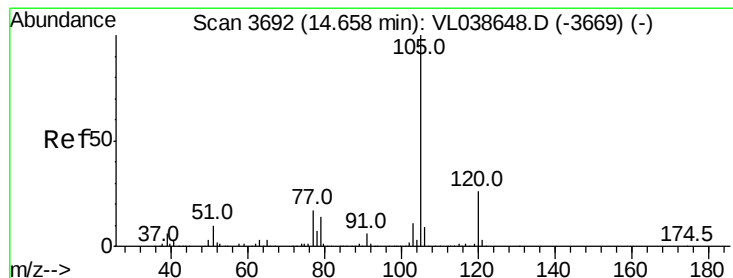
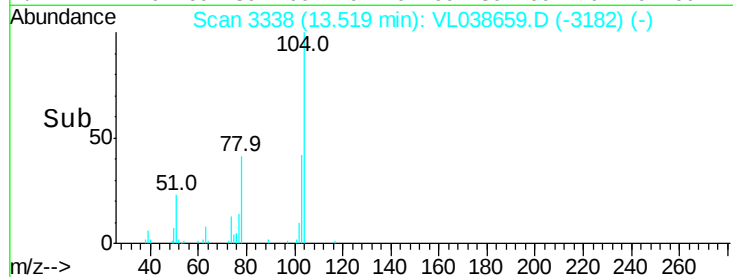
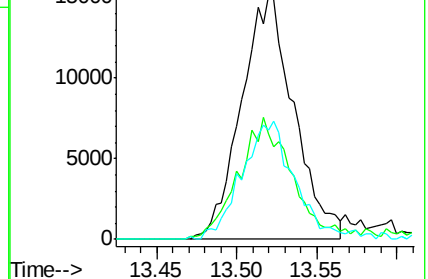
103 49.2 37.8 56.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.43 ppbv

RT: 14.65 min Scan# 3691

Delta R.T. -0.00 min

Lab File: VL038659.D

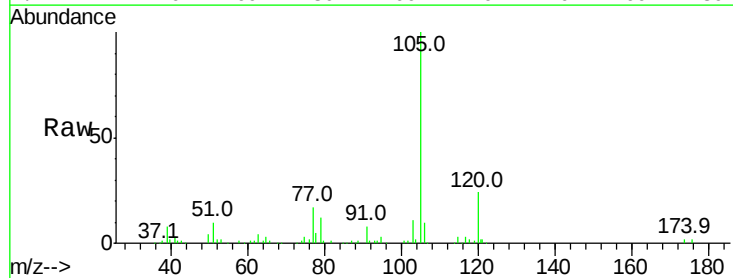
Acq: 21 Mar 2022 20:48

Tgt Ion:105 Resp: 130581

Ion Ratio Lower Upper

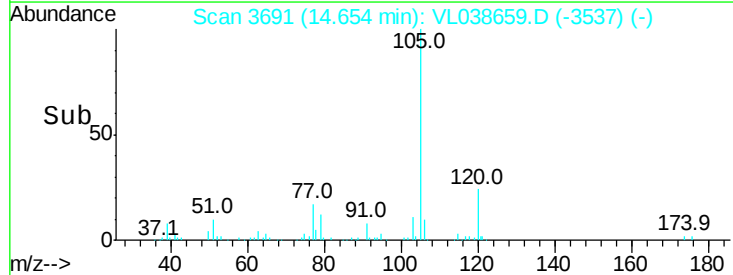
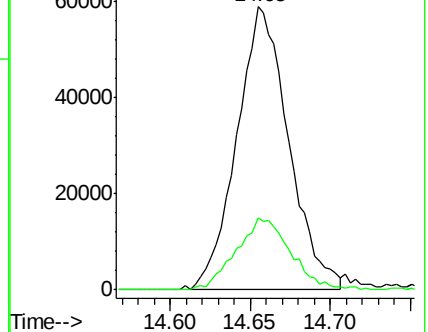
105 100

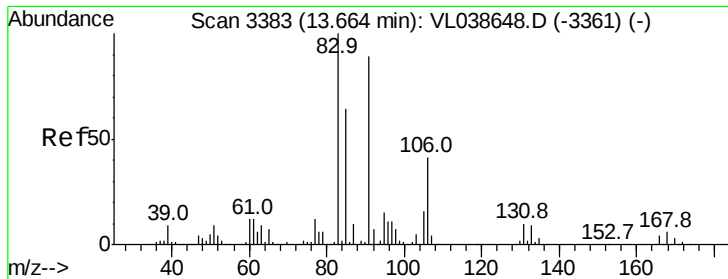
120 26.7 21.2 31.8



Abundance Ion 105.10 (104.80 to 105.80): V

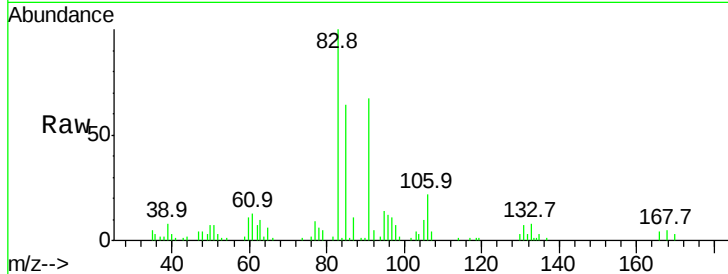
Ion 120.20 (119.90 to 120.90): V



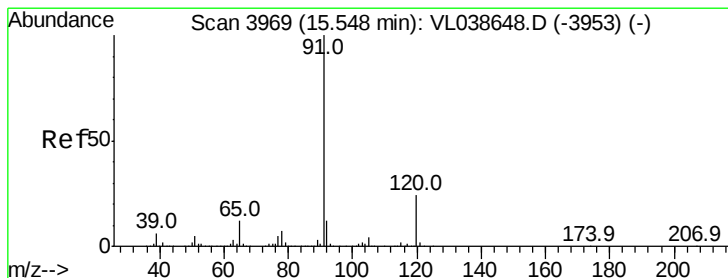
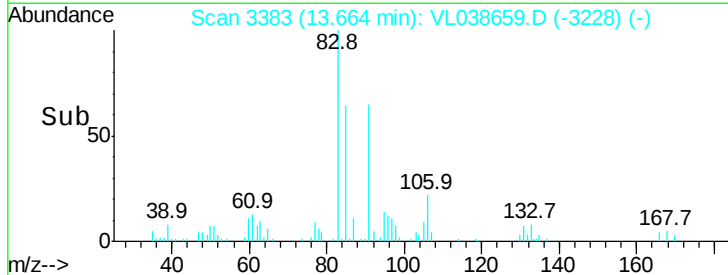
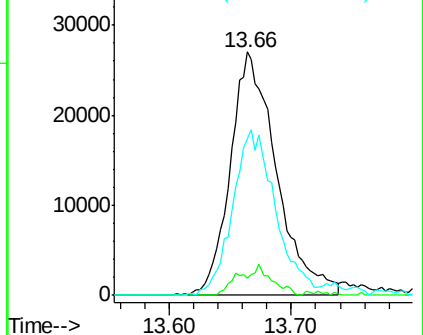


#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.45 ppbv
 RT: 13.66 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 MDL-AIR-03-QT1-2022DL
 Acq: 21 Mar 2022 20:48

Tgt Ion: 83 Resp: 71058
 Ion Ratio Lower Upper
 83 100
 131 9.3 4.8 14.3
 85 66.7 32.6 97.8

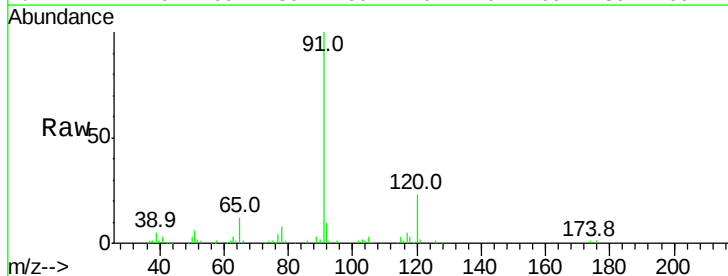


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0

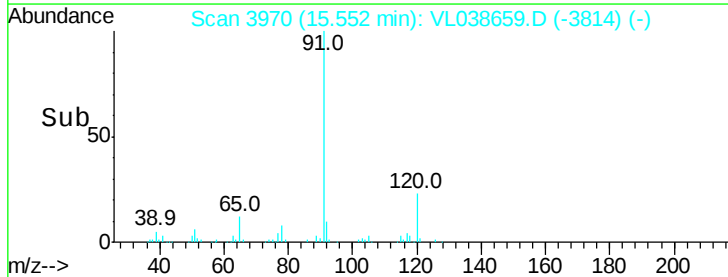
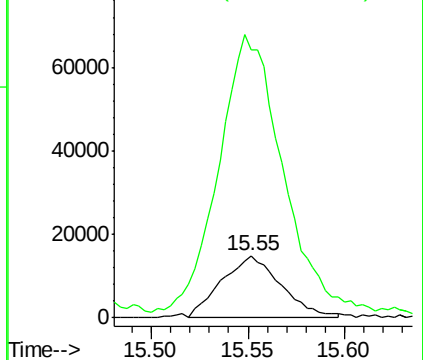


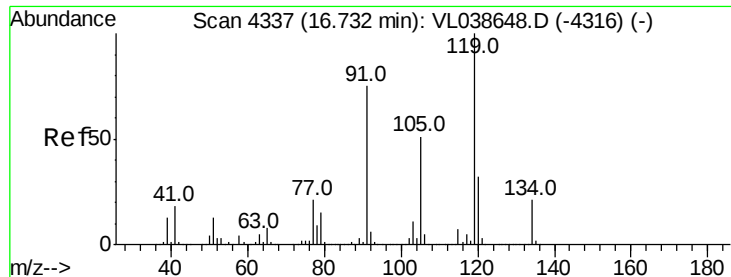
#64
 n-propylbenzene
 Concen: 0.40 ppbv
 RT: 15.55 min Scan# 3970
 Delta R.T. 0.00 min
 Lab File: VL038659.D
 Acq: 21 Mar 2022 20:48

Tgt Ion:120 Resp: 31828
 Ion Ratio Lower Upper
 120 100
 91 506.4 368.0 552.0



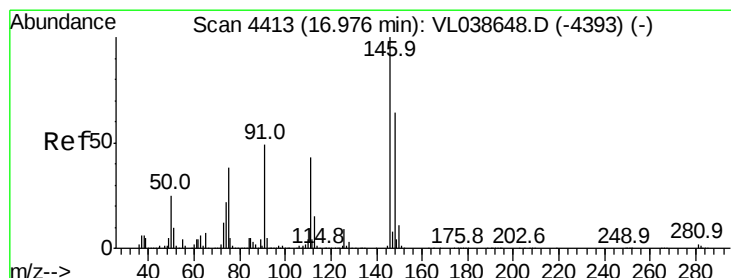
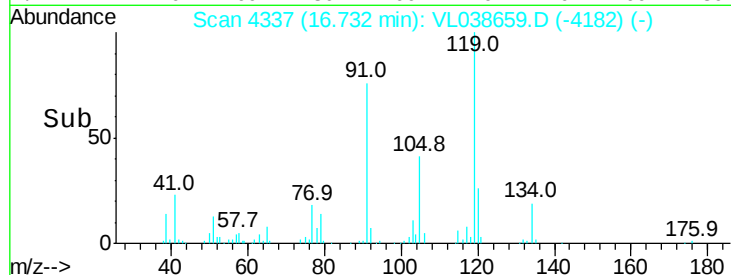
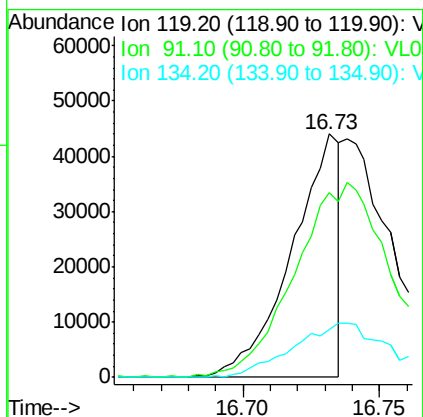
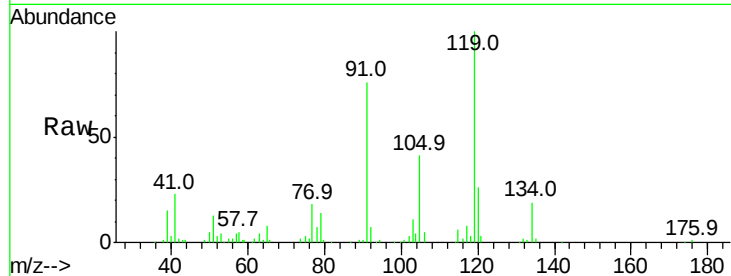
Abundance Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0





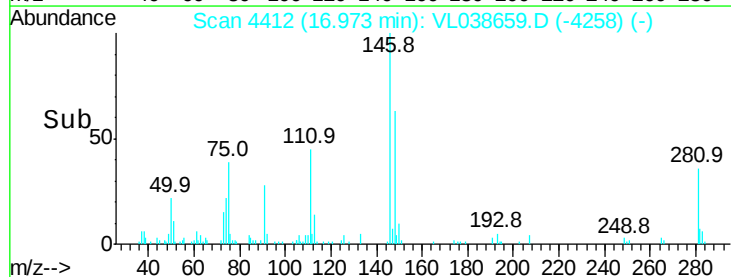
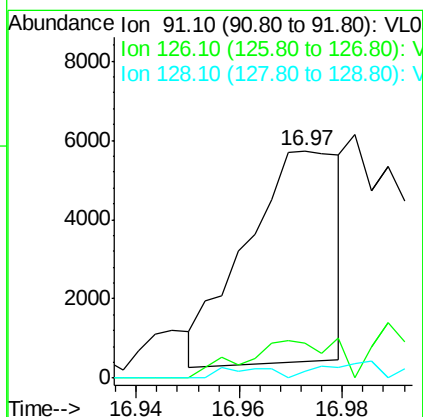
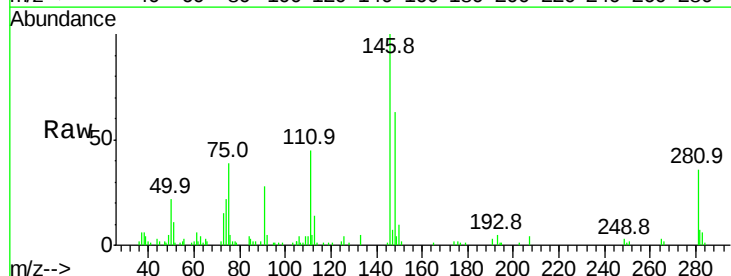
#65
 tert-Butylbenzene
 Concen: 0.20 ppbv
 RT: 16.73 min
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 MDL-AIR-03-QT1-2022DL
 Acq: 21 Mar 2022 20:48

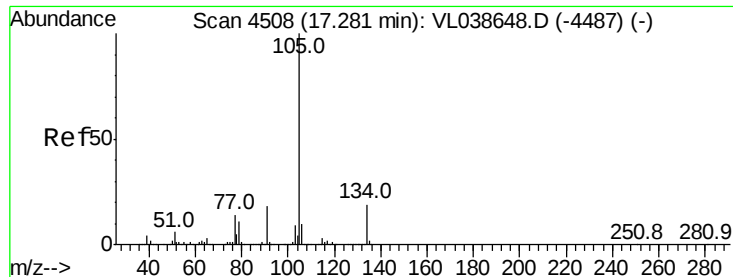
Tgt Ion: 119 Resp: 53881
 Ion Ratio Lower Upper
 119 100
 91 0.0 61.2 91.8#
 134 0.0 16.3 24.5#



#66
 Benzyl Chloride
 Concen: 0.13 ppbv
 RT: 16.97 min Scan# 4412
 Delta R.T.: -0.00 min
 Lab File: VL038659.D
 Acq: 21 Mar 2022 20:48

Tgt Ion: 91 Resp: 6693
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.3 21.5#
 128 0.0 4.6 6.8#





#67

sec-Butylbenzene

Concen: 0.42 ppbv

RT: 17.28

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

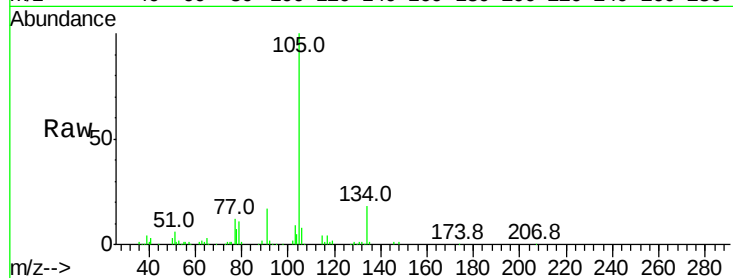
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion: 105 Resp: 163542

Ion Ratio Lower Upper

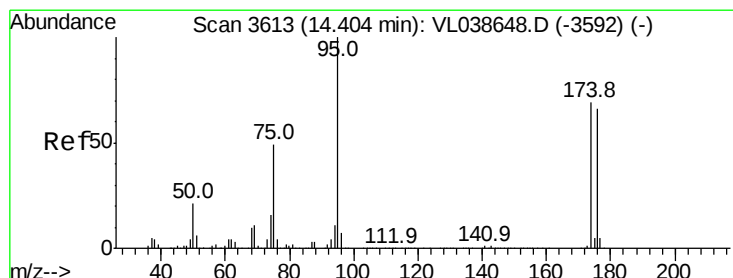
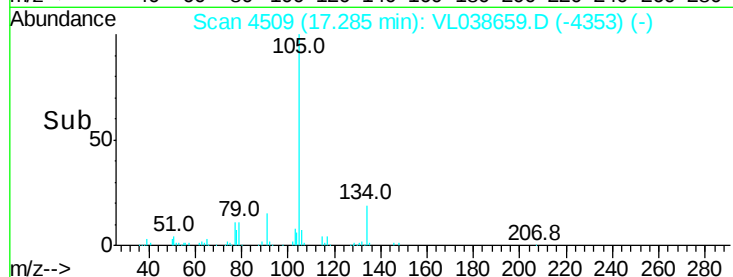
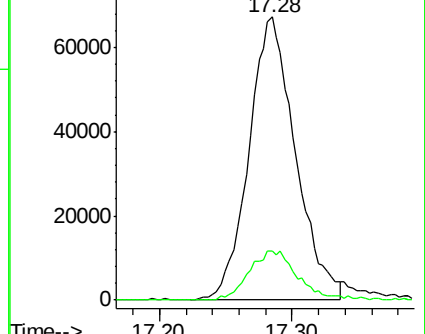
105 100

134 18.4 15.1 22.7



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: 10.32 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.00 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

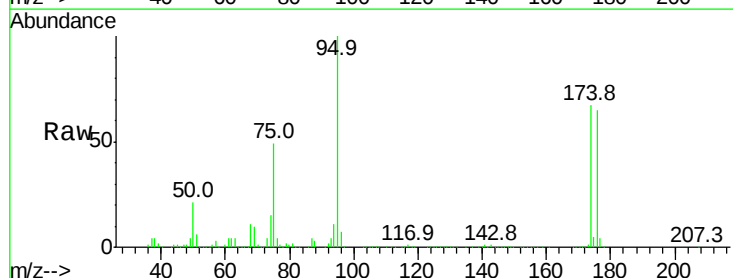
Tgt Ion: 95 Resp: 1650444

Ion Ratio Lower Upper

95 100

174 69.9 56.1 84.1

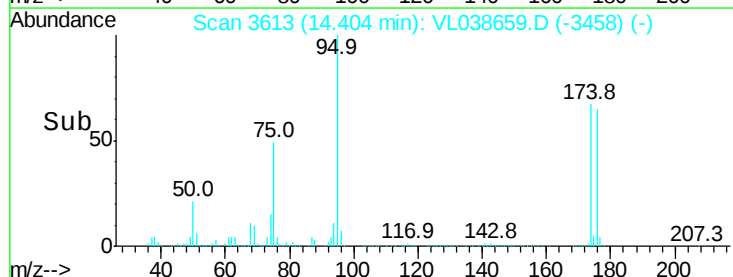
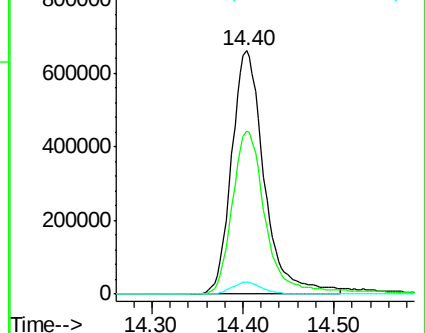
175 4.8 4.2 6.2

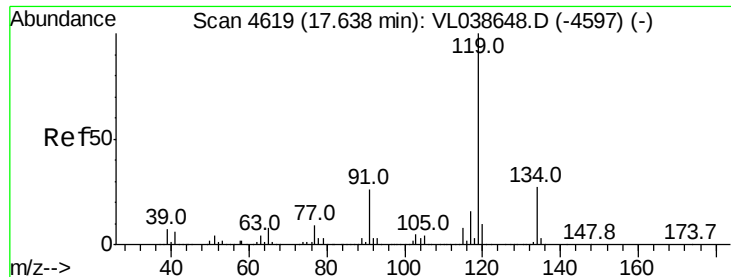


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

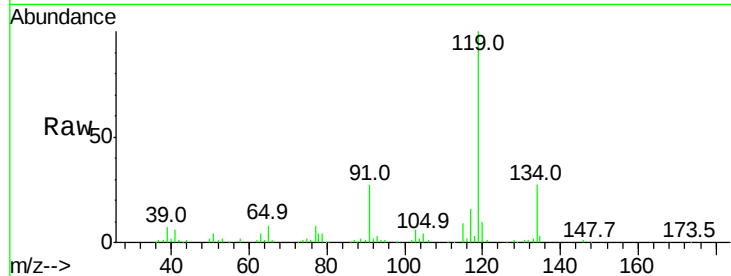
Ion 175.00 (174.70 to 175.70): V



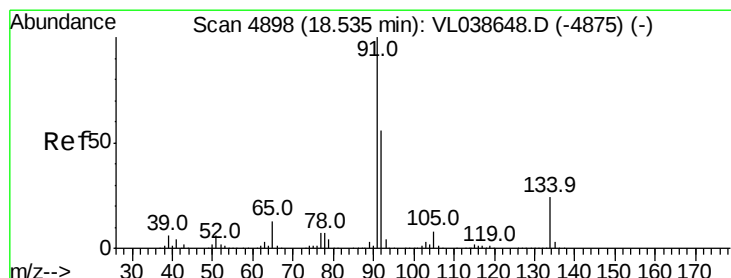
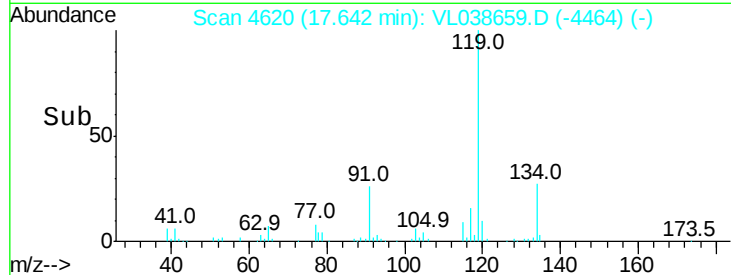
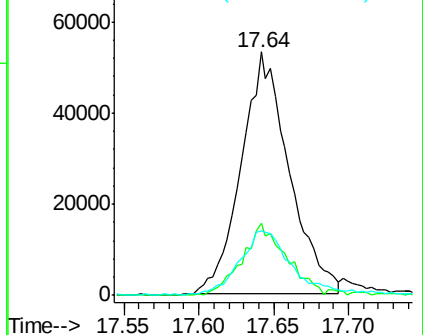


#69
 p-Isopropyltoluene
 Concen: 0.37 ppbv
 RT: 17.64 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 MDL-AIR-03-OT1-2022DL
 Acq: 21 Mar 2022 20:48

Tgt Ion:	119	Resp:	118598
Ion	Ratio	Lower	Upper
119	100		
134	28.5	21.2	31.8
91	30.5	21.4	32.2

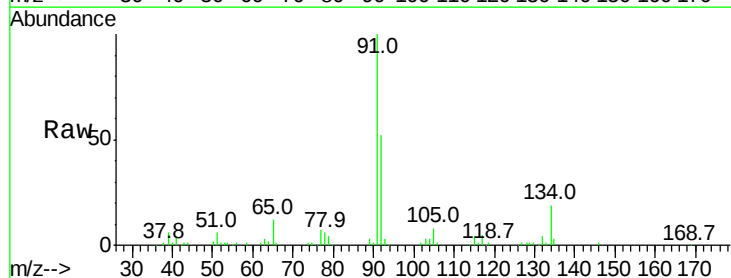


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

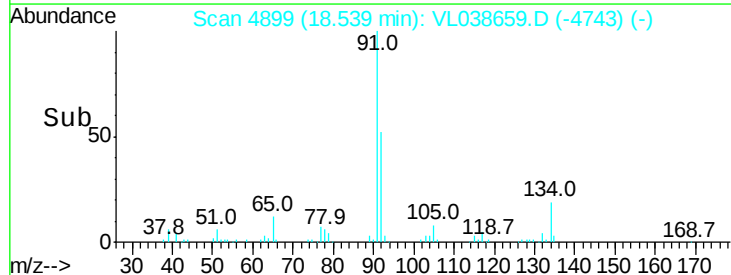
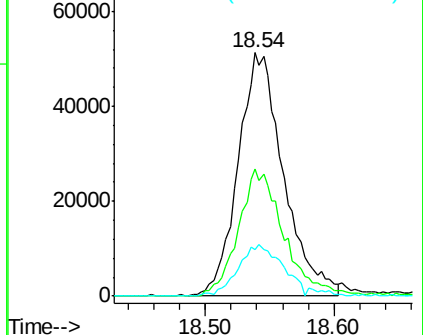


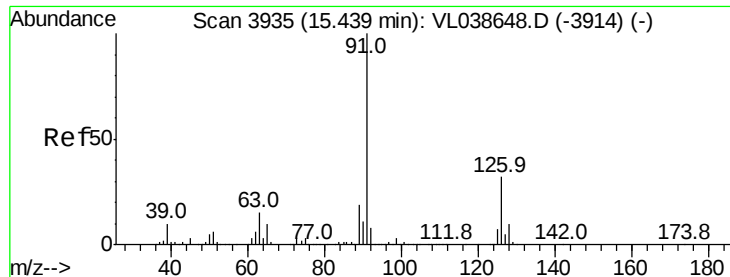
#70
 n-Butylbenzene
 Concen: 0.38 ppbv
 RT: 18.54 min Scan# 4899
 Delta R.T.: 0.00 min
 Lab File: VL038659.D
 Acq: 21 Mar 2022 20:48

Tgt Ion:	91	Resp:	125982
Ion	Ratio	Lower	Upper
91	100		
92	53.2	43.9	65.9
134	22.0	18.7	28.1



Abundance Ion 91.10 (90.80 to 91.80): V
 Ion 92.10 (91.80 to 92.80): V
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.39 ppbv

RT: 15.44

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

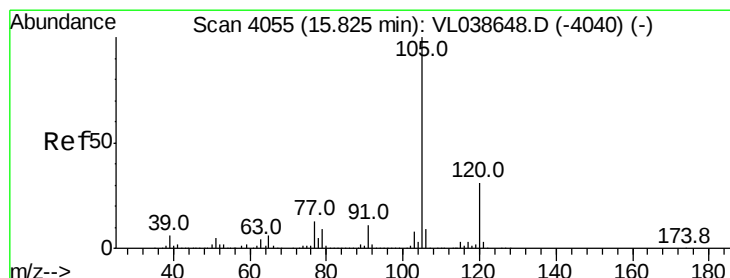
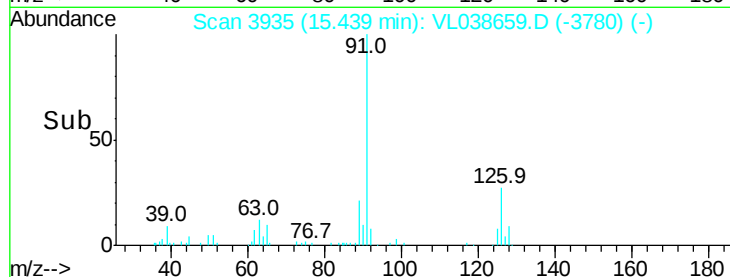
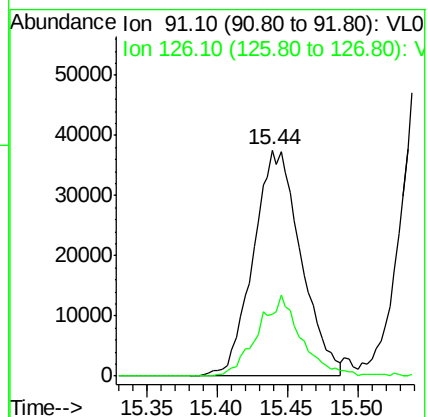
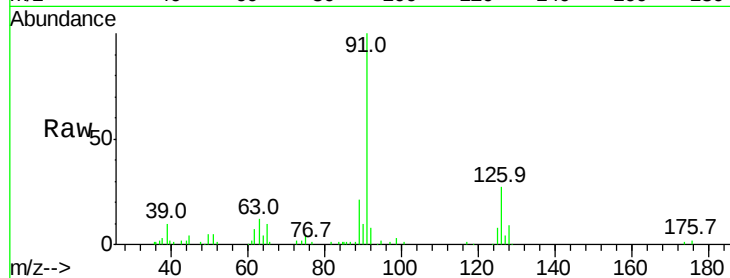
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion: 91 Resp: 88653

Ion Ratio Lower Upper

91 100

126 32.7 13.1 52.3



#72

4-Ethyltoluene

Concen: 0.38 ppbv

RT: 15.83 min Scan# 4057

Delta R.T. 0.01 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

Tgt Ion: 105 Resp: 89947

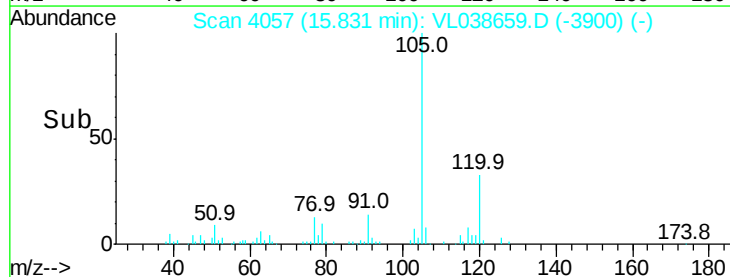
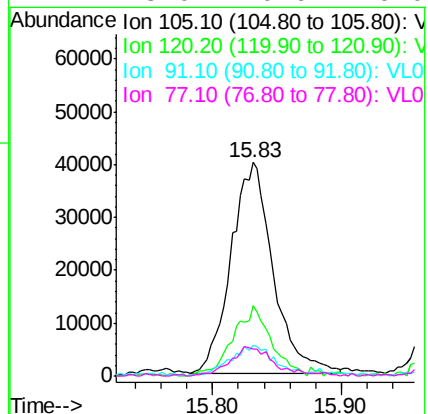
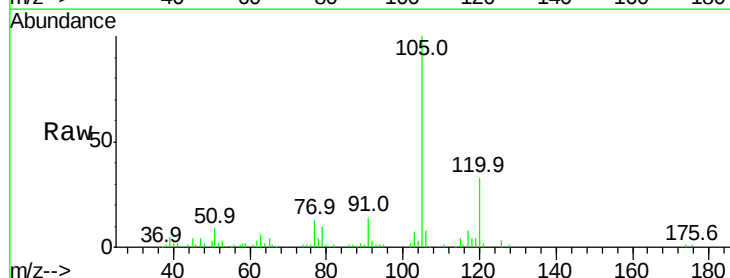
Ion Ratio Lower Upper

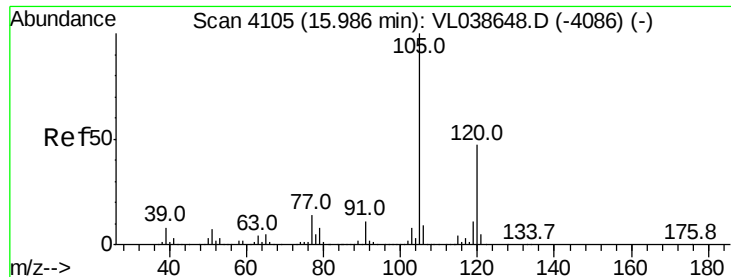
105 100

120 32.1 24.9 37.3

91 14.6 9.8 14.6

77 15.0 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 0.38 ppbv

RT: 15.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

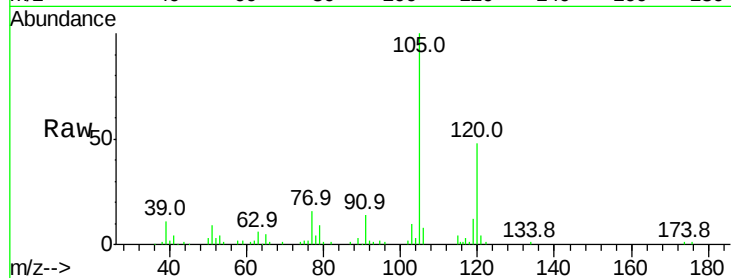
Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

Tgt Ion:105 Resp: 82415

Ion Ratio Lower Upper

105 100

120 51.6 37.6 56.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.99

40000

30000

20000

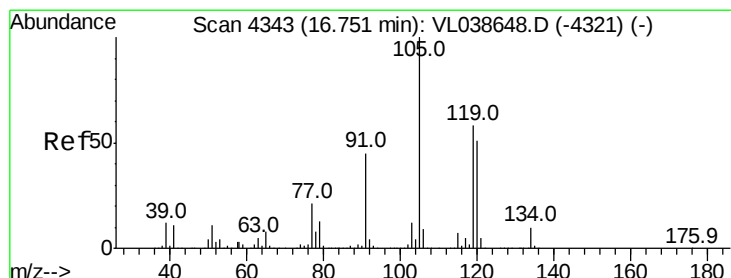
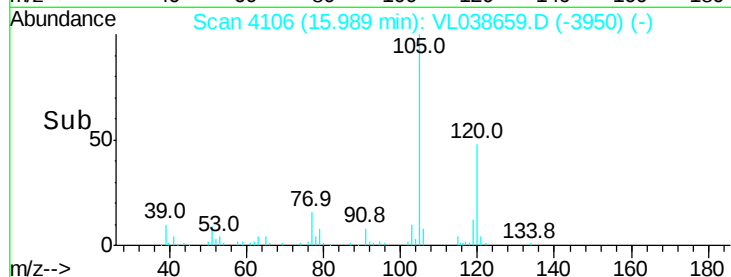
10000

0

Time-->

15.90

16.00



#74

1,2,4-Trimethylbenzene

Concen: 0.41 ppbv

RT: 16.75 min Scan# 4342

Delta R.T. -0.00 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

Tgt Ion:105 Resp: 97184

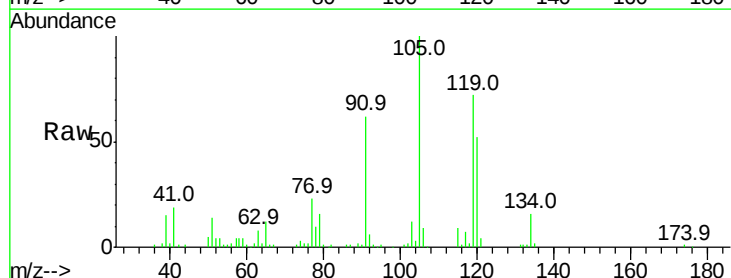
Ion Ratio Lower Upper

105 100

120 52.0 40.5 60.7

91 57.8 35.9 53.9#

77 22.1 16.6 25.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

60000

40000

20000

0

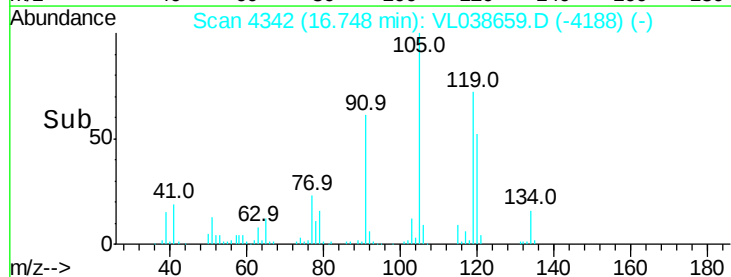
Time-->

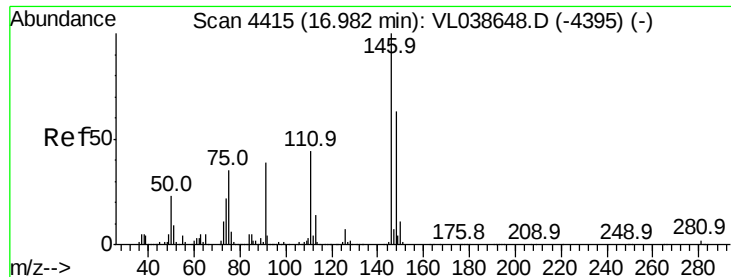
16.65

16.70

16.75

16.80





#75

1,3-Dichlorobenzene

Concen: 0.43 ppbv

RT: 16.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

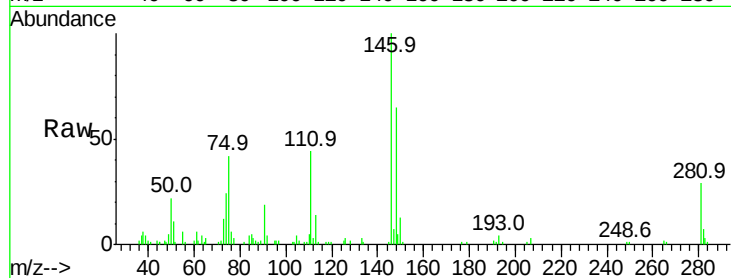
Tgt Ion:146 Resp: 64606

Ion Ratio Lower Upper

146 100

111 48.1 22.2 66.6

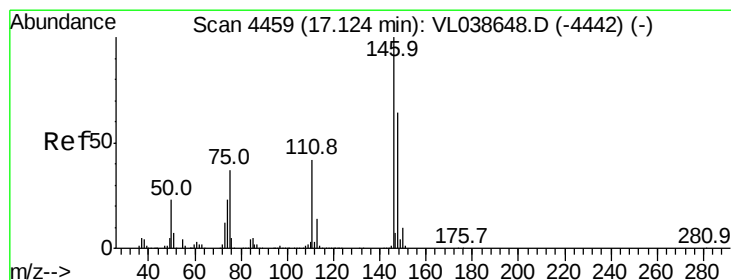
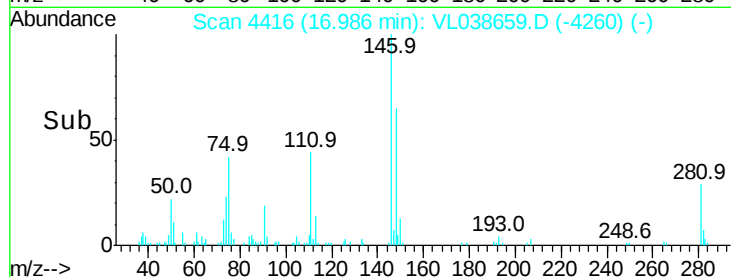
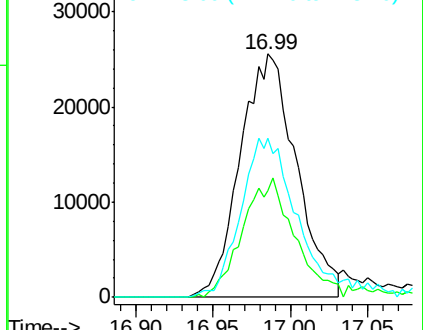
148 67.8 32.5 97.5



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: 0.37 ppbv

RT: 17.13 min Scan# 4461

Delta R.T. 0.01 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

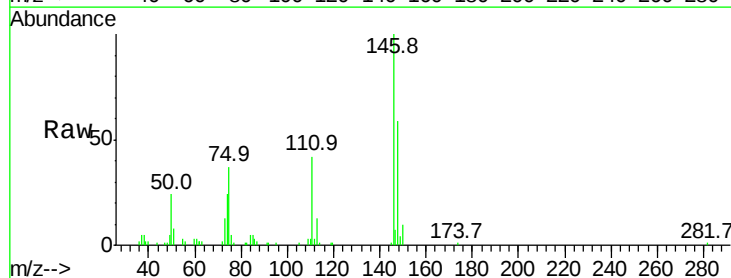
Tgt Ion:146 Resp: 55273

Ion Ratio Lower Upper

146 100

111 51.1 21.4 64.2

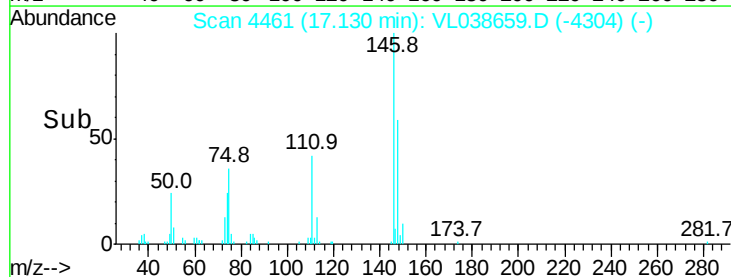
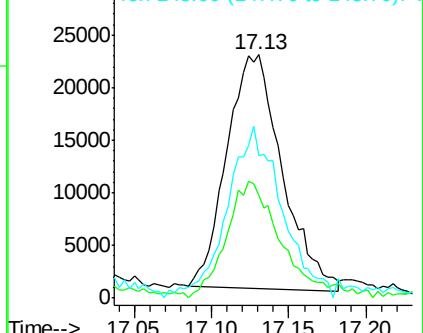
148 78.2 32.1 96.3

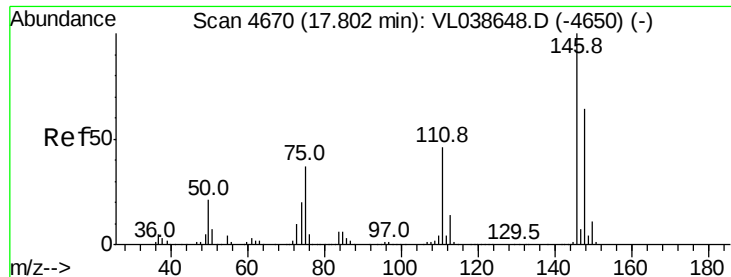


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.41 ppbv

RT: 17.81

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

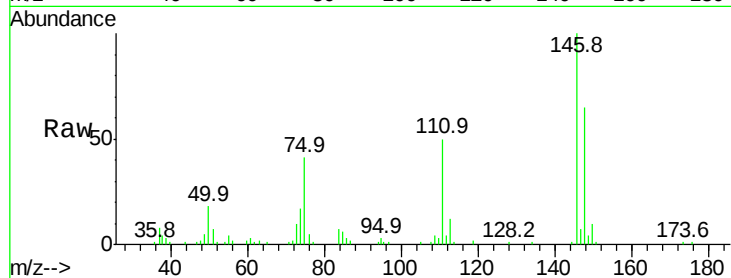
Tgt Ion:146 Resp: 61600

Ion Ratio Lower Upper

146 100

111 50.9 22.8 68.4

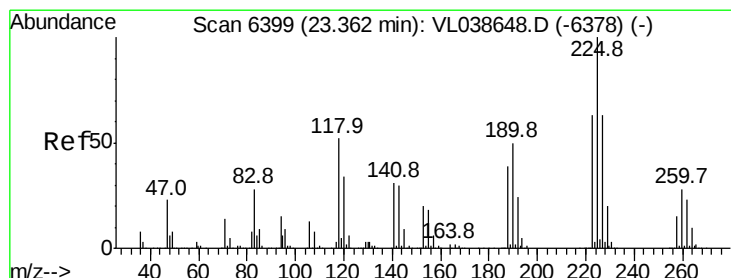
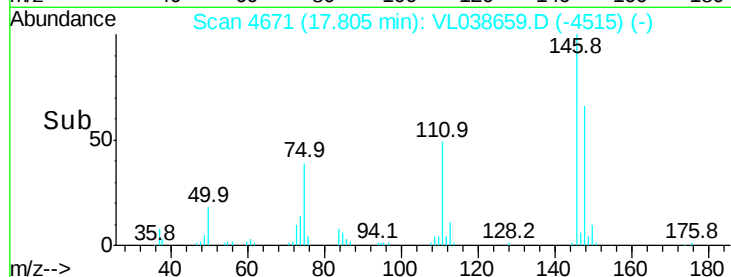
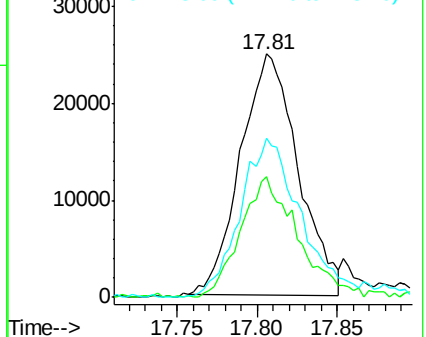
148 73.0 32.5 97.4



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



#78

Hexachloro-1,3-Butadiene

Concen: 0.29 ppbv

RT: 23.36 min Scan# 6399

Delta R.T. -0.00 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

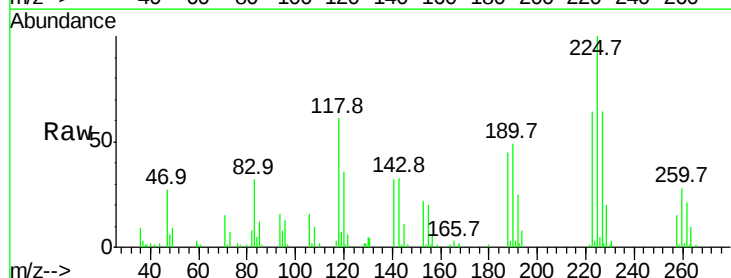
Tgt Ion:225 Resp: 39836

Ion Ratio Lower Upper

225 100

223 0.0 51.0 76.6#

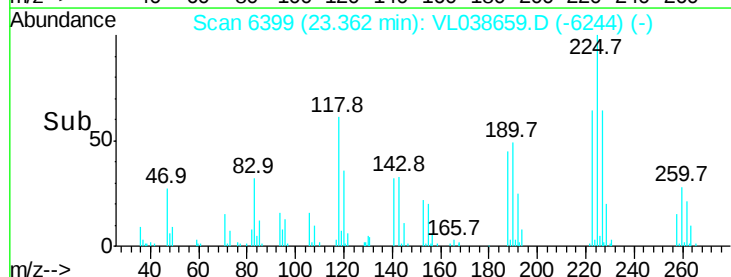
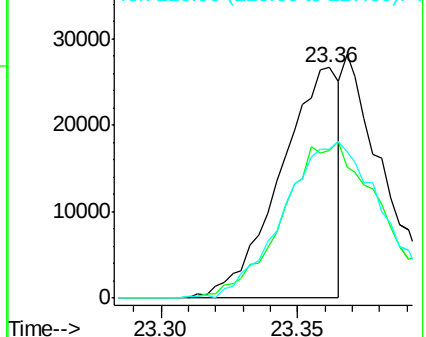
227 0.0 51.5 77.3#

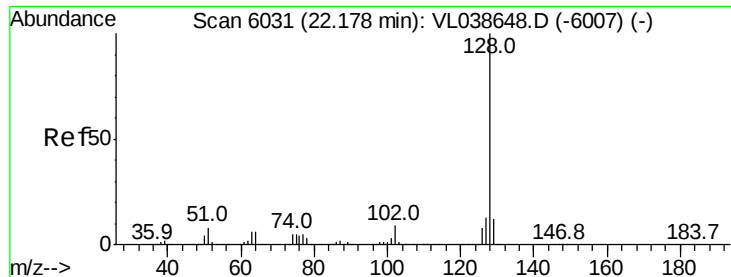


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.15 ppbv

RT: 22.19

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:48 MDL-AIR-03-OT1-2022DL

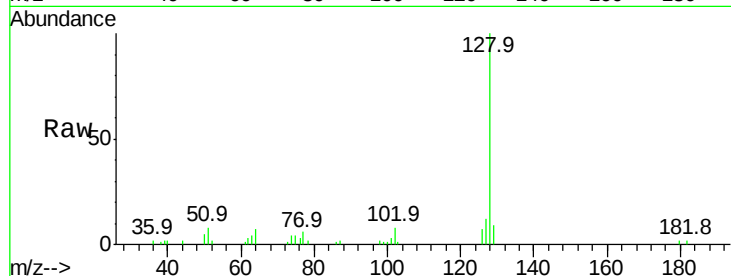
Tgt Ion:128 Resp: 26506

Ion Ratio Lower Upper

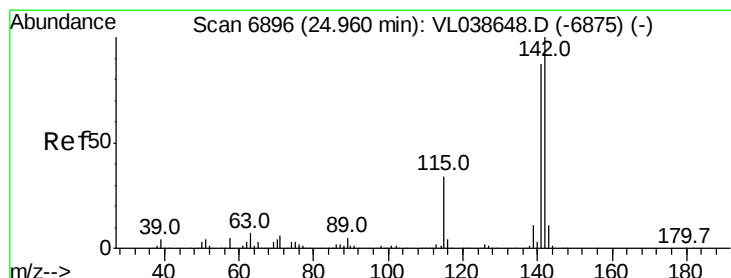
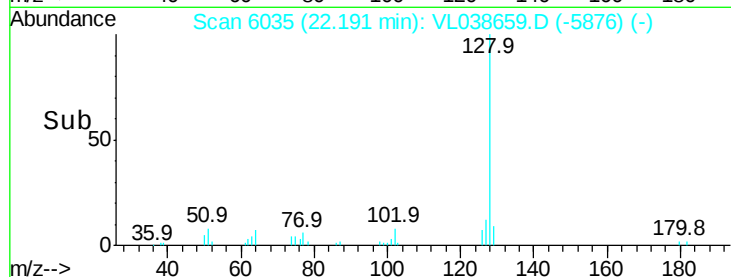
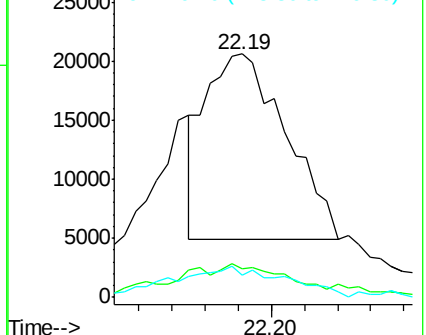
128 100

127 7.7 10.2 15.4#

129 8.8 9.2 13.8#



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.22 ppbv

RT: 24.96 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL038659.D

Acq: 21 Mar 2022 20:48

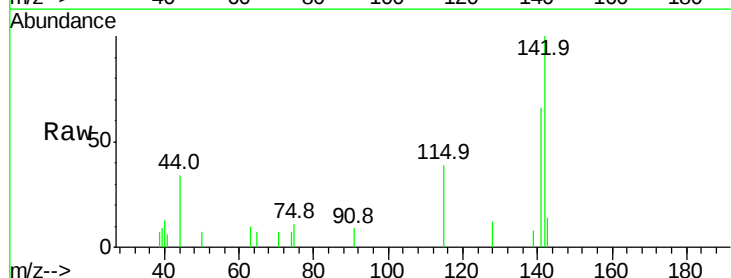
Tgt Ion:142 Resp: 10661

Ion Ratio Lower Upper

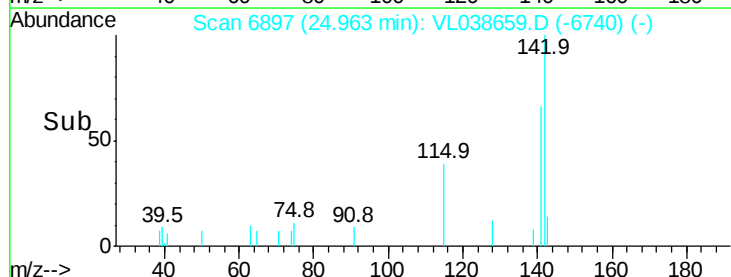
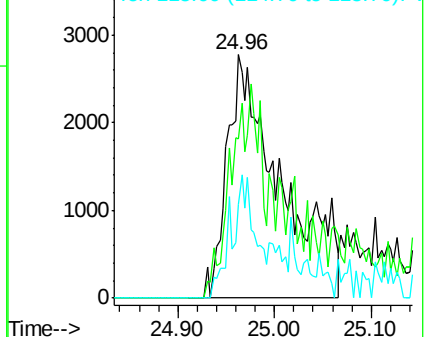
142 100

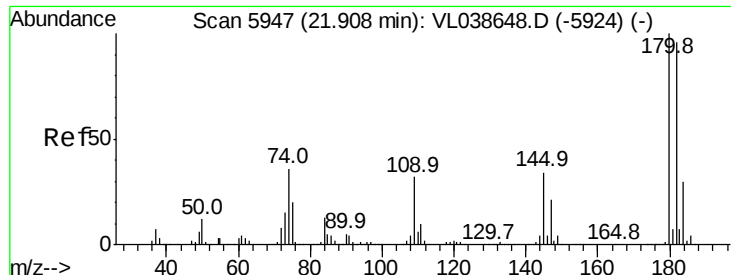
141 79.6 66.4 99.6

115 27.4 27.8 41.6#



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 0.38 ppbv

RT: 21.91 Instrument:

Delta R.T MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:40 MDL-AIR-03-OT1-2022DL

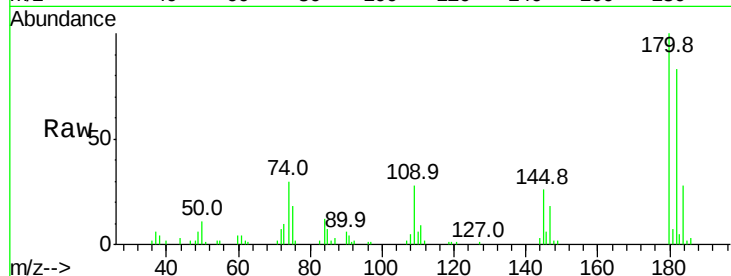
Tgt Ion:180 Resp: 47096

Ion Ratio Lower Upper

180 100

182 92.3 79.2 118.8

184 30.1 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

