

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082522\
 Data File : VL039582.D
 Acq On : 25 Aug 2022 17:41
 Operator : SY/AP
 Sample : N3980-15 0.45
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 MDL-AIR-03-QT3-2022

Quant Time: Aug 26 07:22:41 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Aug 26 06:05:16 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.20	49	979644	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2607991	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2173959	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.78	95	1584199	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	2.75	85	16850	0.129	ppbv 100
3) Chlorodifluoromethane	2.69	51	11315	0.097	ppbv 95
4) Chloromethane	2.83	50	4086	0.058	ppbv 97
5) Vinyl Chloride	2.94	62	5595	0.099	ppbv # 88
6) Bromomethane	3.14	94	1783	0.074	ppbv # 65
7) Chloroethane	3.21	64	1762	0.083	ppbv # 81
8) Dichlorotetrafluoroethane	2.88	85	12751	0.091	ppbv # 82
9) Propene	2.72	41	9387	0.176	ppbv # 15
10) Heptane	7.59	43	7404	0.060	ppbv # 71
11) Trichlorofluoromethane	3.58	101	13862	0.097	ppbv # 81
12) 1,1,2-Trichlorotrifluoroet	4.09	101	6365	0.060	ppbv # 36
13) Ethanol	3.25	45	379	0.099	ppbv # 23
14) Bromoethene	3.39	108	1593	0.037	ppbv # 1
15) Acetone	3.51	43	20288	0.185	ppbv # 77
16) 1,3-Butadiene	3.00	39	5295	0.092	ppbv 91
20) Methylene Chloride	3.94	84	36448	0.818	ppbv 92
21) Allyl Chloride	4.02	41	2338	0.033	ppbv # 1
22) trans-1,2-Dichloroethene	4.46	96	3650	0.077	ppbv # 76
24) 1,1-Dichloroethane	4.57	63	6505	0.067	ppbv # 90
25) Ethyl Acetate	5.23	43	65448	0.279	ppbv # 85
26) Hexane	5.22	57	72010	0.751	ppbv # 48
27) Carbon Disulfide	4.14	76	5129	0.050	ppbv # 32
29) Chloroform	5.28	83	11937	0.080	ppbv 98
30) Cyclohexane	6.60	84	2838	0.036	ppbv # 1
31) cis-1,2-Dichloroethene	5.09	61	5605	0.060	ppbv # 82
32) 1,1,1-Trichloroethane	6.01	97	9789	0.074	ppbv # 52
34) 2-Butanone	4.83	43	9791	0.076	ppbv # 75
35) Carbon Tetrachloride	6.50	117	5139	0.036	ppbv 93
36) Benzene	6.38	78	11140	0.056	ppbv # 96
37) 1,2-Dichloroethane	5.81	62	4548	0.042	ppbv # 81
38) Trichloroethene	7.30	130	11253	0.106	ppbv # 56
39) 1,2-Dichloropropane	6.66	63	607485	8.128	ppbv # 25
42) Bromodichloromethane	7.26	83	6626	0.044	ppbv # 90
44) 2,2,4-Trimethylpentane	7.33	57	11431	0.034	ppbv # 1
46) cis-1,3-Dichloropropene	8.15	75	3925	0.045	ppbv # 57
47) 1,1,2-Trichloroethane	8.91	97	2959	0.035	ppbv # 29
51) 2-Hexanone	9.59	43	5008	0.034	ppbv # 29
56) 1,1,1,2-Tetrachloroethane	11.53	131	2827	0.032	ppbv # 9
58) Ethyl Benzene	12.09	91	11788	0.047	ppbv 94
63) 1,1,2,2-Tetrachloroethane	13.05	83	6112	0.060	ppbv # 31
67) sec-Butylbenzene	16.63	105	12782	0.031	ppbv # 59

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Instrument :
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QLast Update : Fri Aug 26 06:05:16 2022
Response via : Initial Calibration

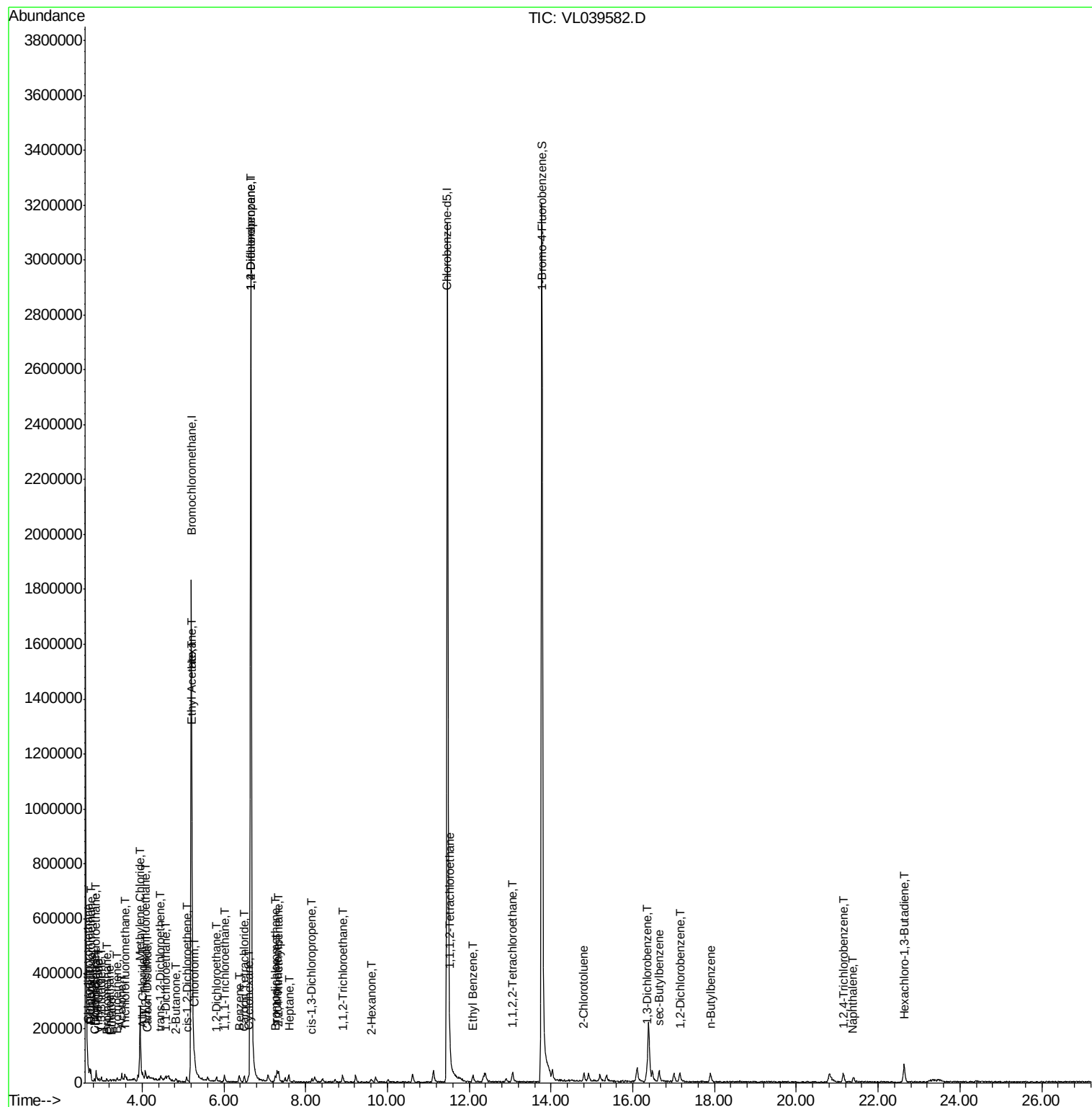
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	17.90	91	12582	0.037	ppbv #	37
71) 2-Chlorotoluene	14.81	91	13235	0.056	ppbv #	62
75) 1,3-Dichlorobenzene	16.34	146	5066	0.033	ppbv #	1
77) 1,2-Dichlorobenzene	17.15	146	7450	0.049	ppbv #	19
78) Hexachloro-1,3-Butadiene	22.64	225	6274	0.052	ppbv #	1
79) Naphthalene	21.39	128	7599	0.042	ppbv #	89
81) 1,2,4-Trichlorobenzene	21.15	180	5622	0.046	ppbv #	6

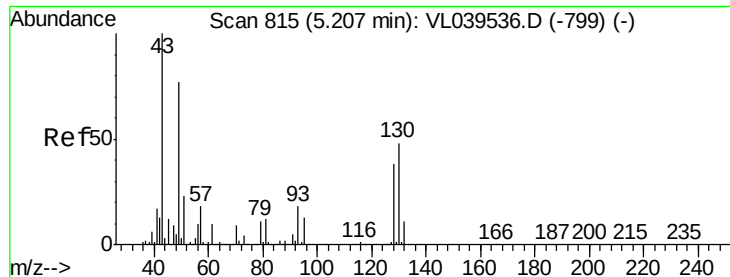
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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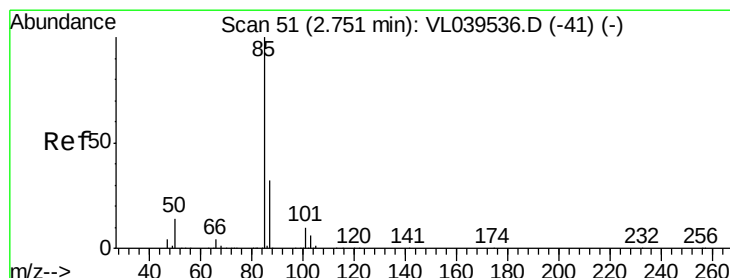
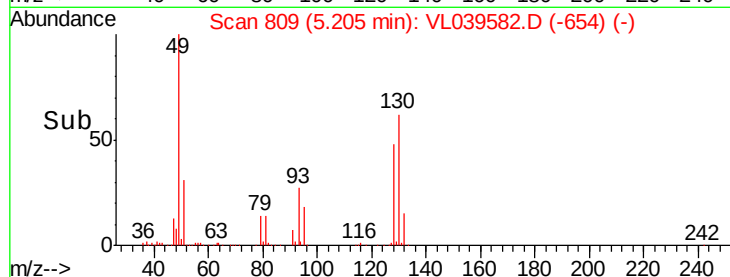
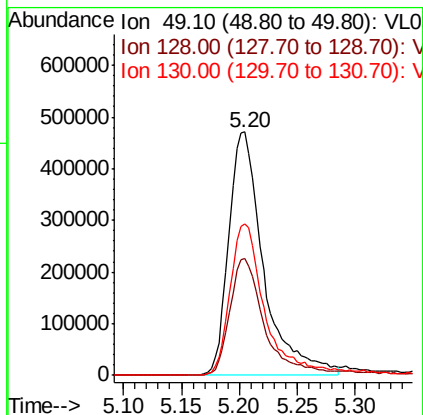
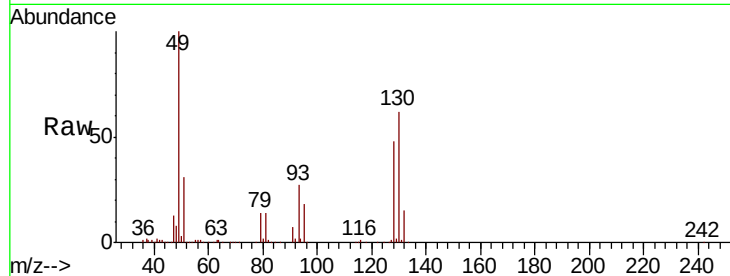
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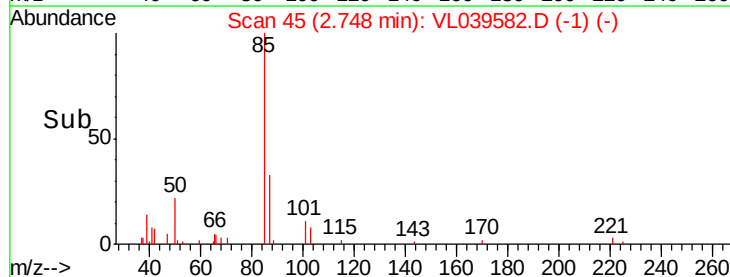
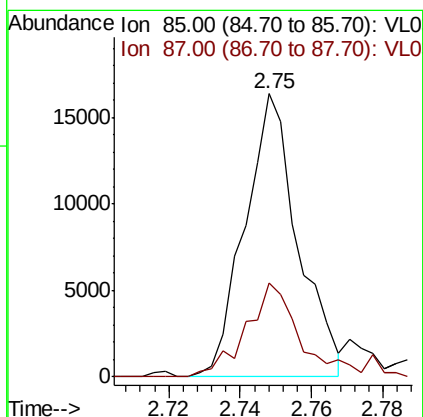
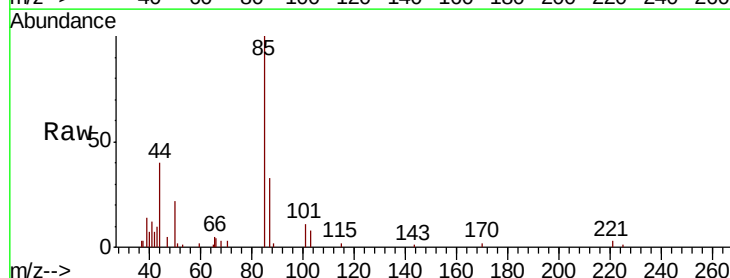
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.20
 Instrument: MSVOA_1
 Delta R.T.:
 ClientSampleId:
 Lab File: MDL-AIR-03-QT3-2022
 Acq: 25 Aug 2022 17:41

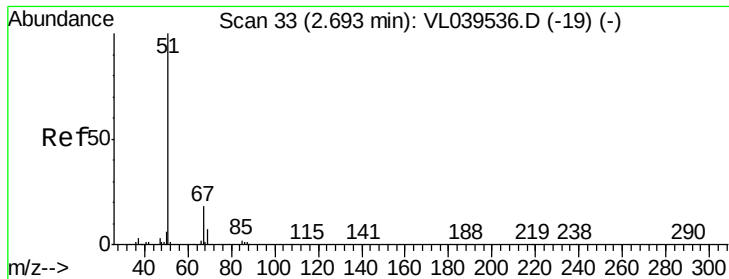
Tot Ion: 49 Resp: 979644
 Ion Ratio Lower Upper
 49 100
 128 50.1 26.7 80.0
 130 65.0 34.3 102.8



#2
 Dichlorodifluoromethane
 Concen: 0.129 ppbv
 RT: 2.75 min Scan# 45
 Delta R.T.: -0.00 min
 Lab File: VL039582.D
 Acq: 25 Aug 2022 17:41

Tgt Ion: 85 Resp: 16850
 Ion Ratio Lower Upper
 85 100
 87 33.2 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.097 ppbv

RT: 2.69 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

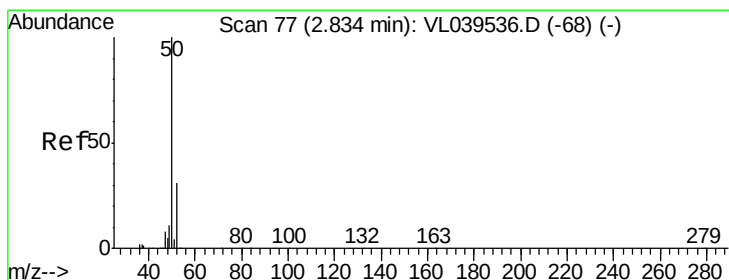
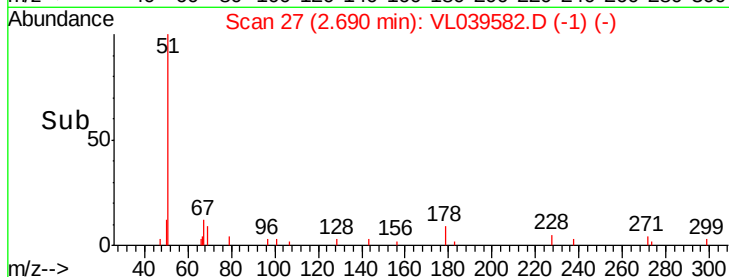
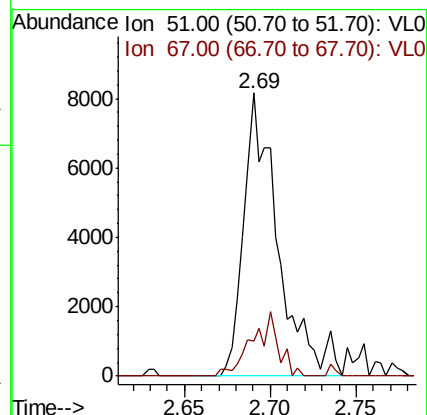
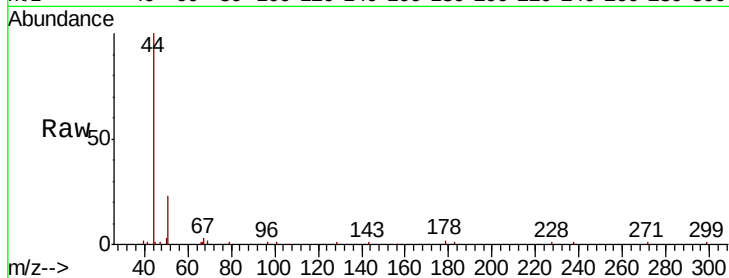
Acq: 25 Aug 2022 17:41 MDL-AIR-03-QT3-2022

Tot Ion: 51 Resp: 11315

Ion Ratio Lower Upper

51 100

67 17.5 15.7 23.5



#4

Chloromethane

Concen: 0.058 ppbv

RT: 2.83 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL039582.D

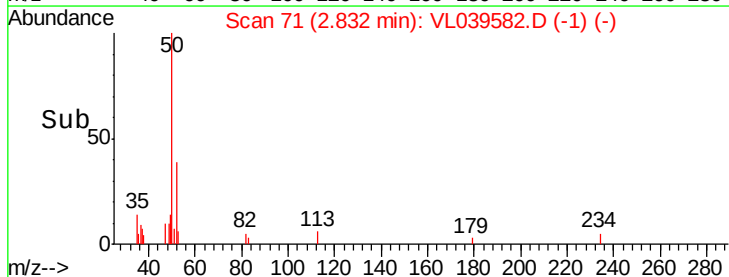
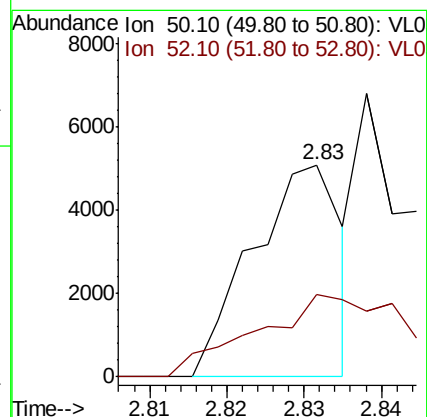
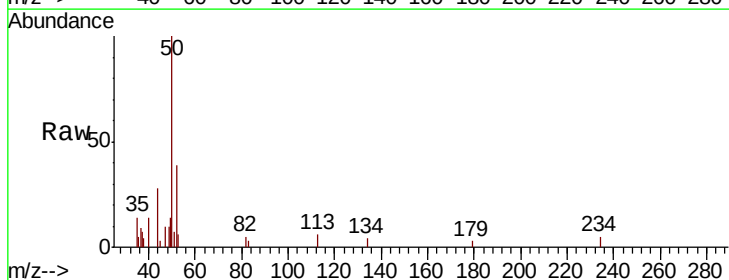
Acq: 25 Aug 2022 17:41

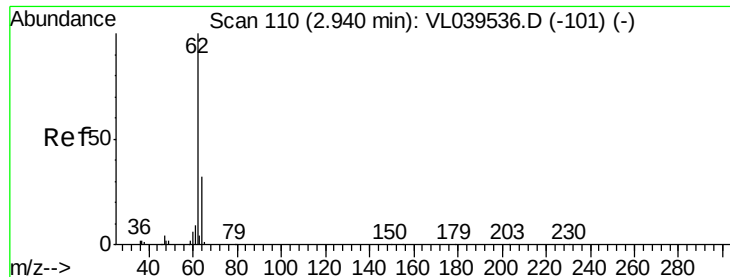
Tgt Ion: 50 Resp: 4086

Ion Ratio Lower Upper

50 100

52 31.3 26.5 39.7





#5

Vinyl Chloride

Concen: 0.099 ppbv

RT: 2.94 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

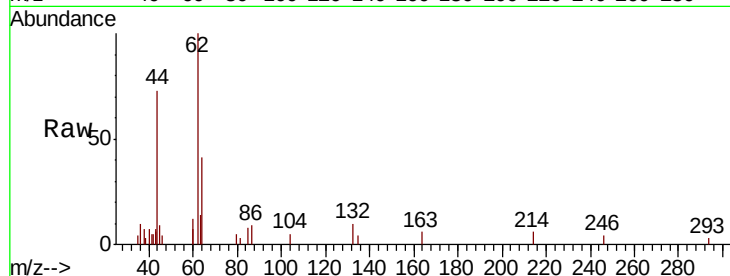
Acq: 25 Aug 2022 17:41 MDL-AIR-03-QT3-2022

Tot Ion: 62 Resp: 5595

Ion Ratio Lower Upper

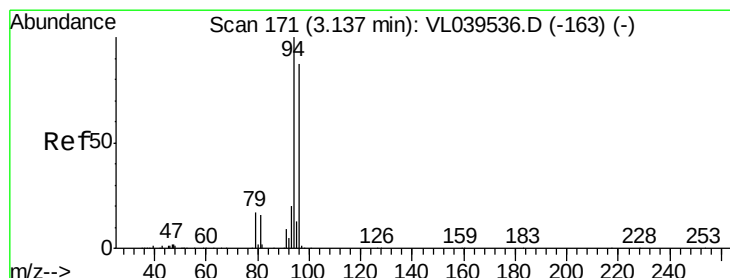
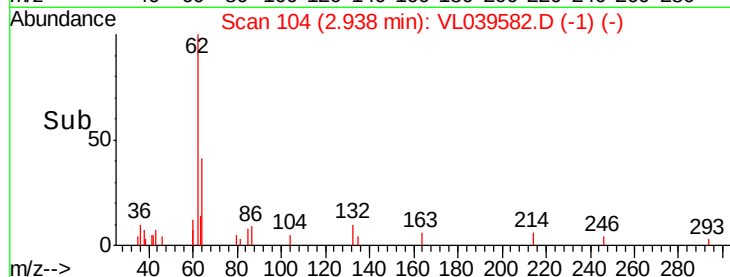
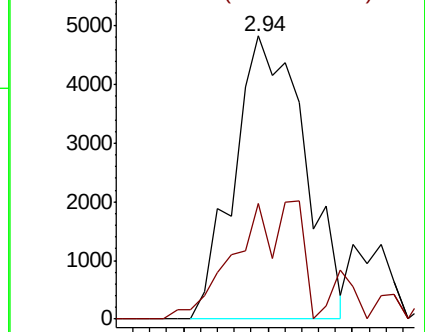
62 100

64 37.5 24.6 36.8#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.074 ppbv

RT: 3.14 min Scan# 167

Delta R.T. 0.00 min

Lab File: VL039582.D

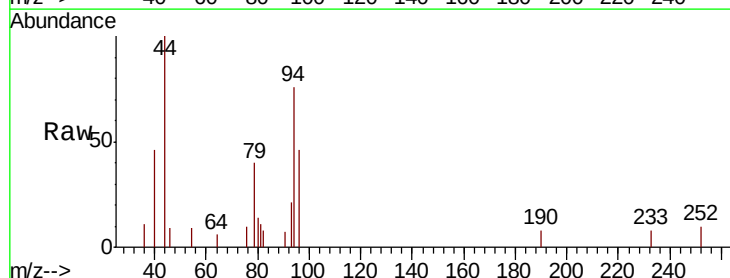
Acq: 25 Aug 2022 17:41

Tgt Ion: 94 Resp: 1783

Ion Ratio Lower Upper

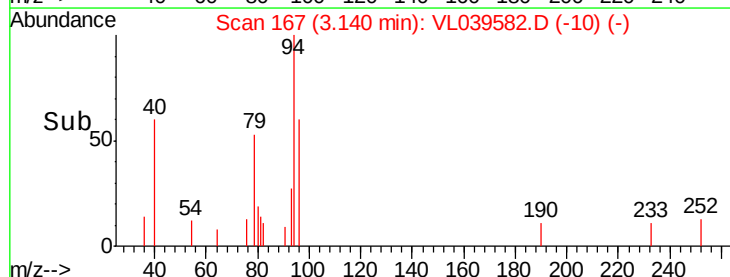
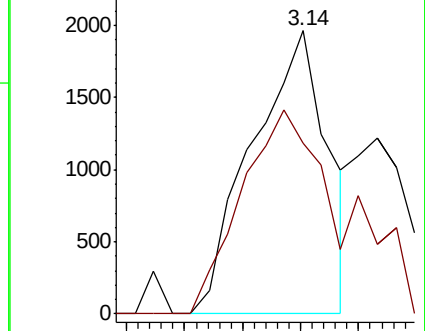
94 100

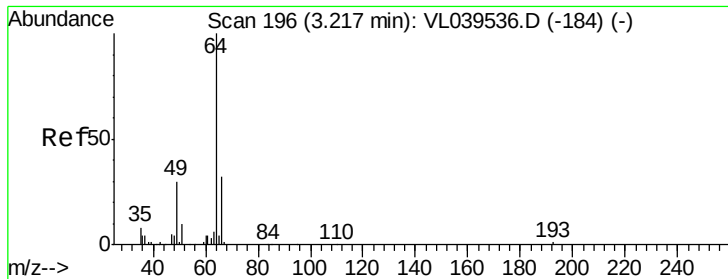
96 60.4 75.6 113.4#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.083 ppbv

RT: 3.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

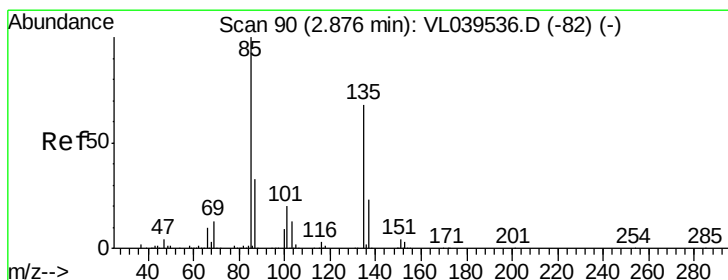
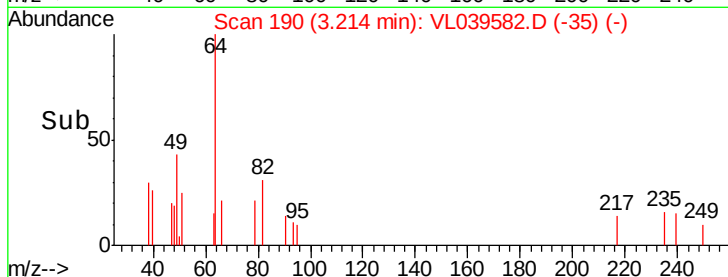
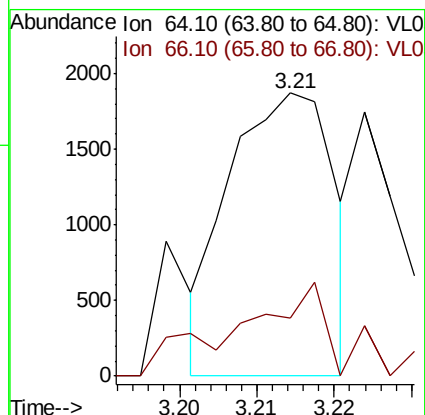
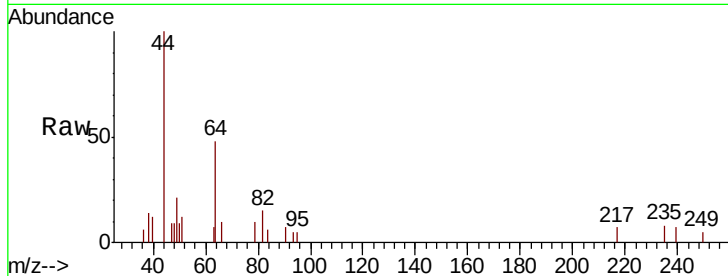
Acq: 25 Aug 2022 17:41 MDL-AIR-03-QT3-2022

Tot Ion: 64 Resp: 1762

Ion Ratio Lower Upper

64 100

66 20.5 24.7 37.1#



#8

Dichlorotetrafluoroethane

Concen: 0.091 ppbv

RT: 2.88 min Scan# 85

Delta R.T. 0.00 min

Lab File: VL039582.D

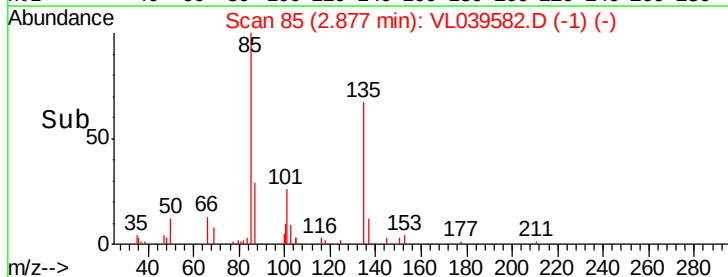
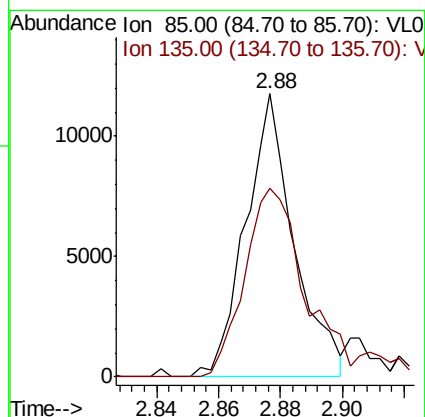
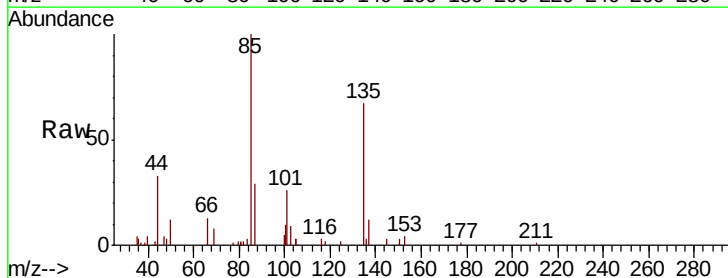
Acq: 25 Aug 2022 17:41

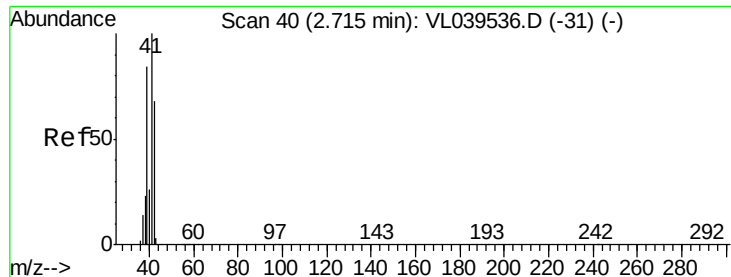
Tgt Ion: 85 Resp: 12751

Ion Ratio Lower Upper

85 100

135 89.0 59.0 88.4#





#9

Propene

Concen: 0.176 ppbv

RT: 2.72 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

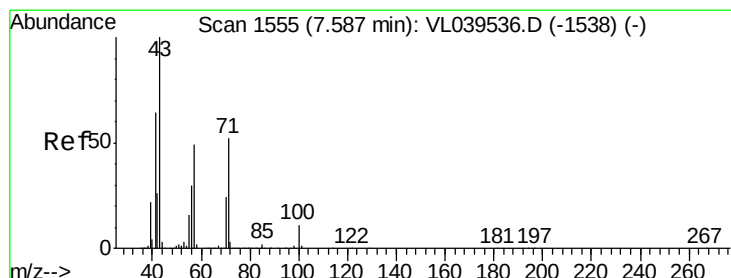
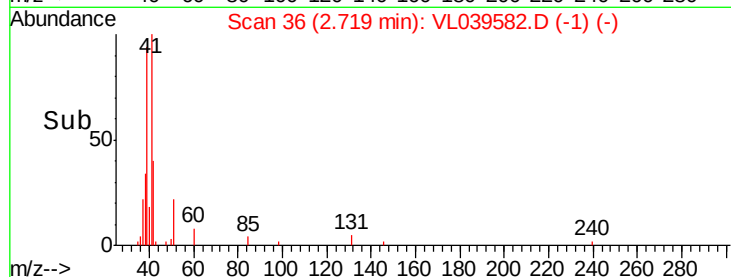
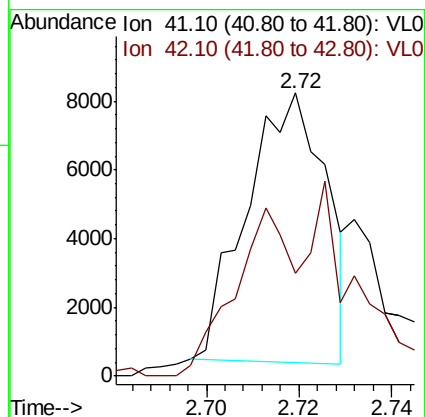
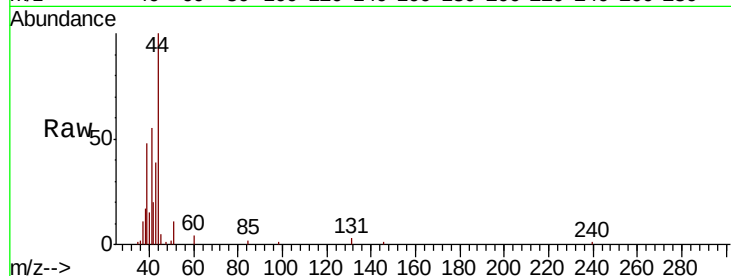
Acq: 25 Aug 2022 17:41 MDL-AIR-03-OT3-2022

Tot Ion: 41 Resp: 9387

Ion Ratio Lower Upper

41 100

42 0.0 55.2 82.8#



#10

Heptane

Concen: 0.060 ppbv

RT: 7.59 min Scan# 1551

Delta R.T. 0.00 min

Lab File: VL039582.D

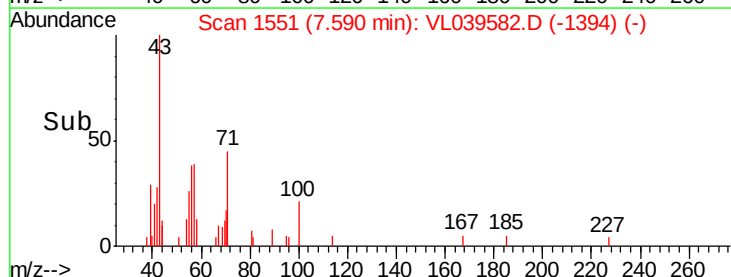
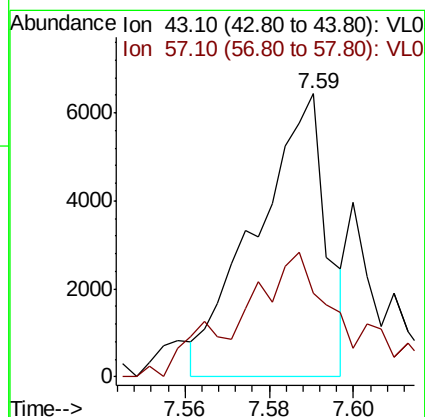
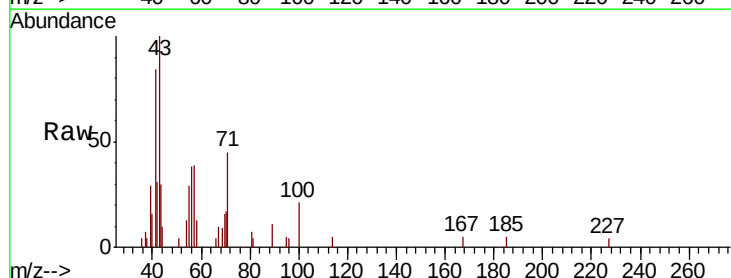
Acq: 25 Aug 2022 17:41

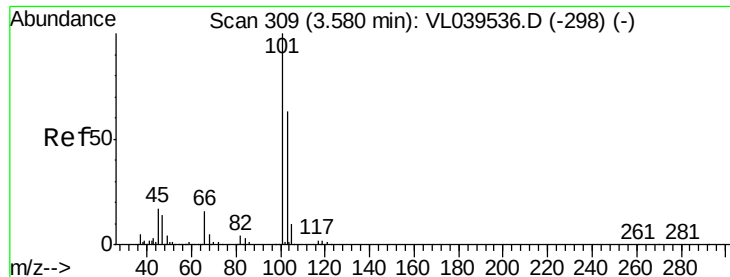
Tgt Ion: 43 Resp: 7404

Ion Ratio Lower Upper

43 100

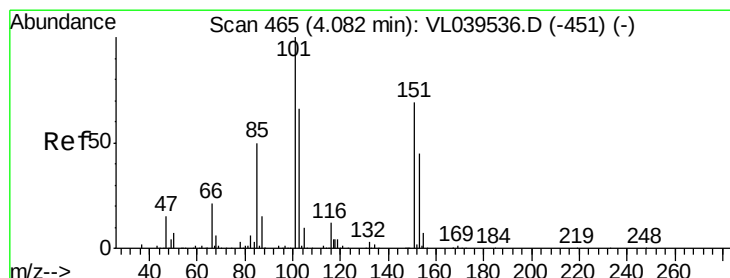
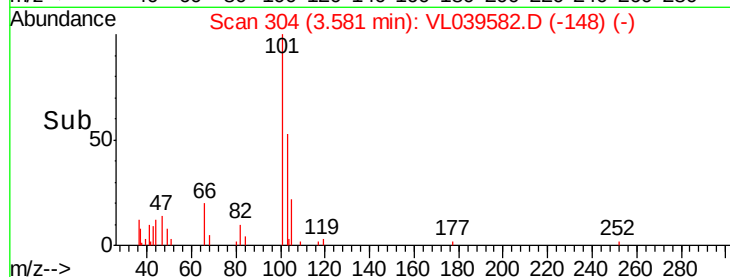
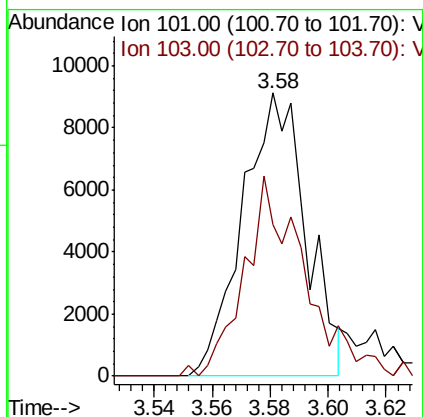
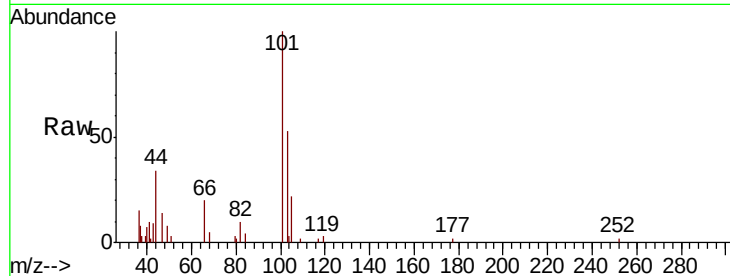
57 70.5 40.5 60.7#





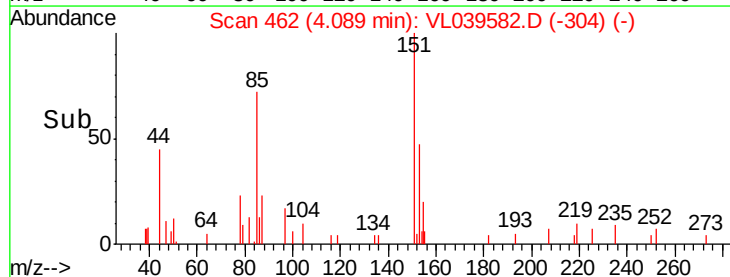
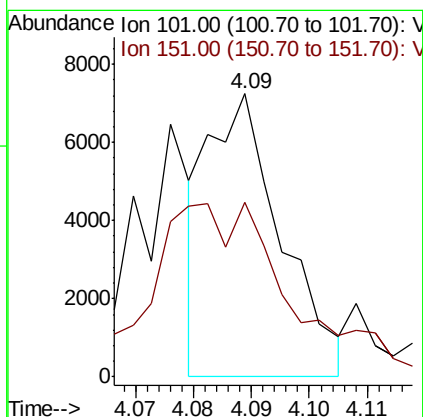
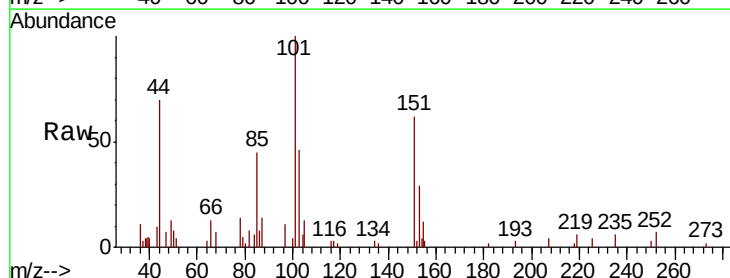
#11
 Trichlorofluoromethane
 Concen: 0.097 ppbv
 RT: 3.58 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Aug 2022 17:41 MDL-AIR-03-OT3-2022

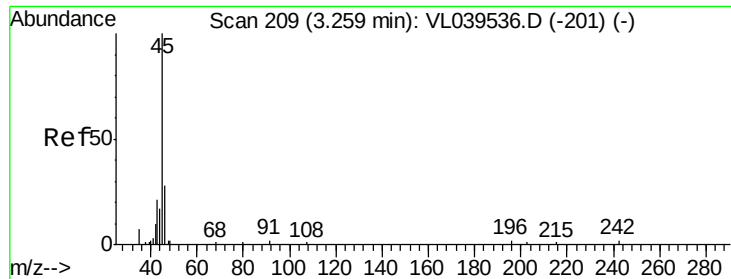
Tot Ion:101 Resp: 13862
 Ion Ratio Lower Upper
 101 100
 103 49.6 51.8 77.8#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.060 ppbv
 RT: 4.09 min Scan# 462
 Delta R.T. 0.01 min
 Lab File: VL039582.D
 Acq: 25 Aug 2022 17:41

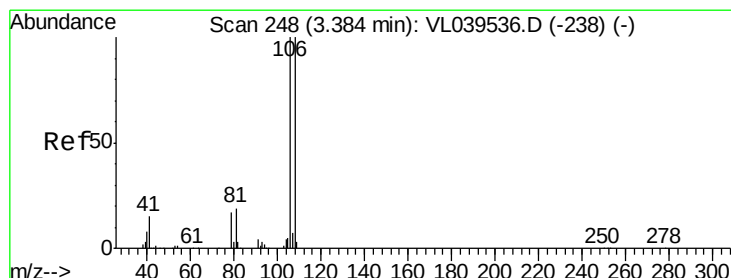
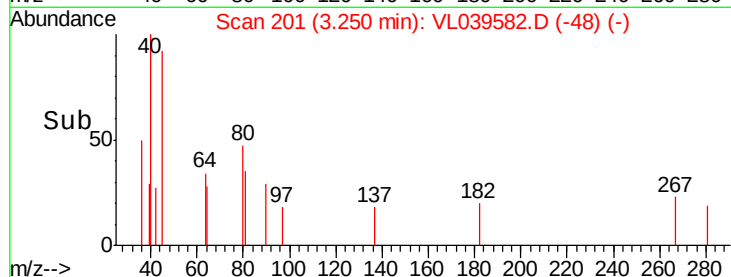
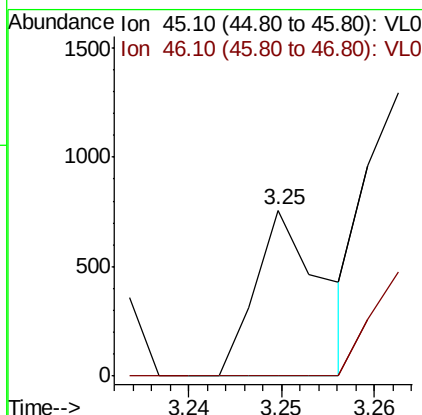
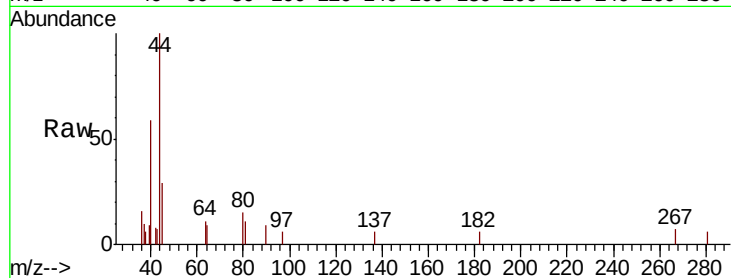
Tgt Ion:101 Resp: 6365
 Ion Ratio Lower Upper
 101 100
 151 127.8 58.9 88.3#





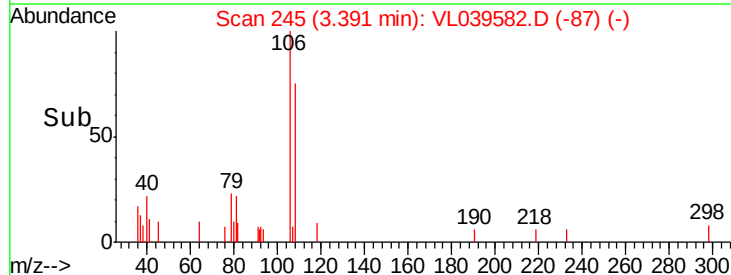
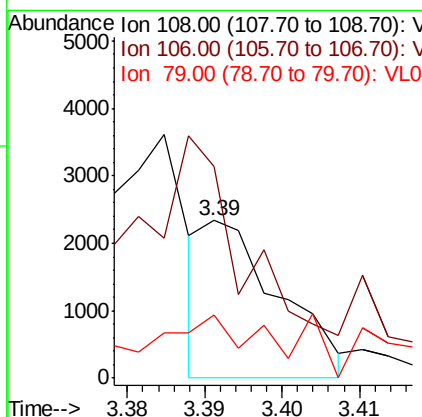
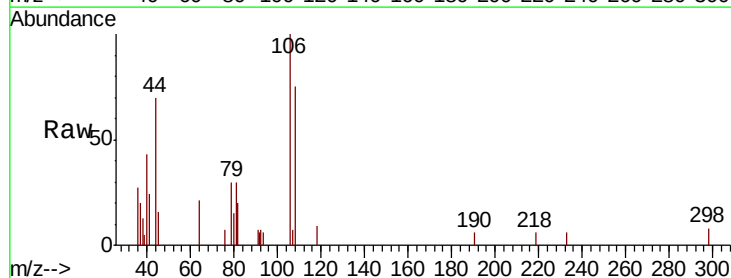
#13
 Ethanol
 Concen: 0.099 ppbv
 RT: 3.25 Instrument : MSVOA_1
 Delta R.T. ClientSampleId :
 Lab File: MDL-AIR-03-OT3-2022
 Acq: 25 Aug 2022 17:41

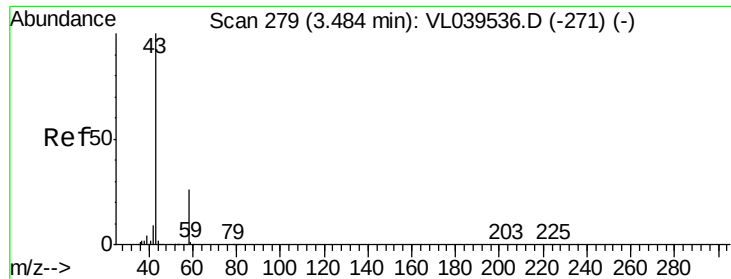
Tot Ion: 45 Resp: 379
 Ion Ratio Lower Upper
 45 100
 46 0.0 22.8 91.2#



#14
 Bromoethene
 Concen: 0.037 ppbv
 RT: 3.39 min Scan# 245
 Delta R.T. 0.01 min
 Lab File: VL039582.D
 Acq: 25 Aug 2022 17:41

Tgt Ion: 108 Resp: 1593
 Ion Ratio Lower Upper
 108 100
 106 325.4 87.1 130.7#
 79 0.0 14.6 22.0#





#15

Acetone

Concen: 0.185 ppbv

RT: 3.51 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

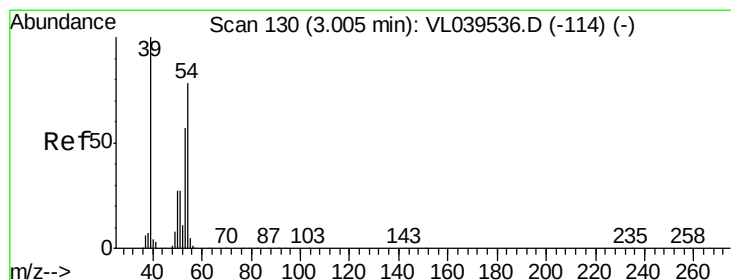
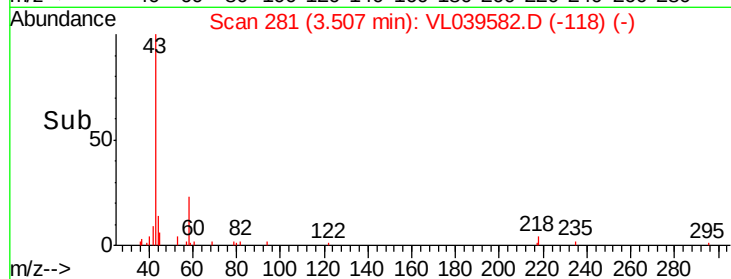
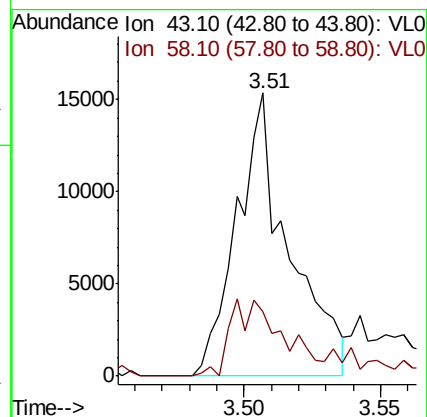
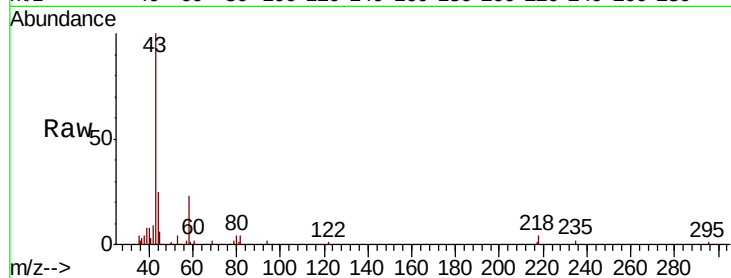
Acq: 25 Aug 2022 17:41 MDL-AIR-03-QT3-2022

Tot Ion: 43 Resp: 20288

Ion Ratio Lower Upper

43 100

58 38.2 21.0 31.6#



#16

1,3-Butadiene

Concen: 0.092 ppbv

RT: 3.00 min Scan# 124

Delta R.T. -0.00 min

Lab File: VL039582.D

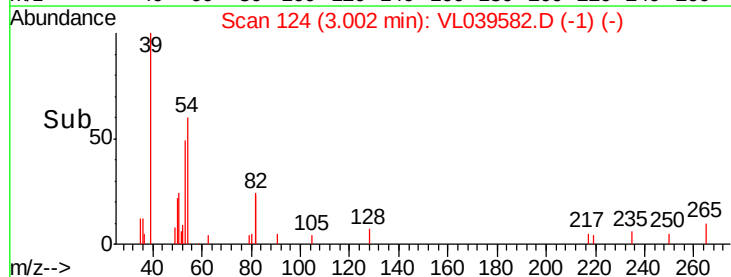
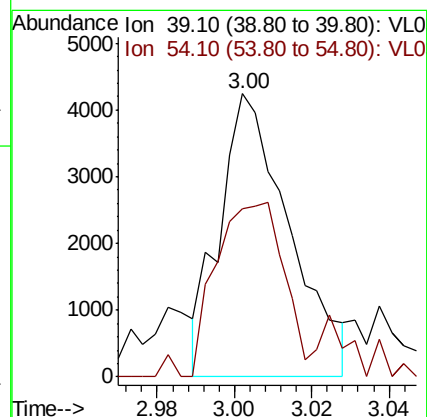
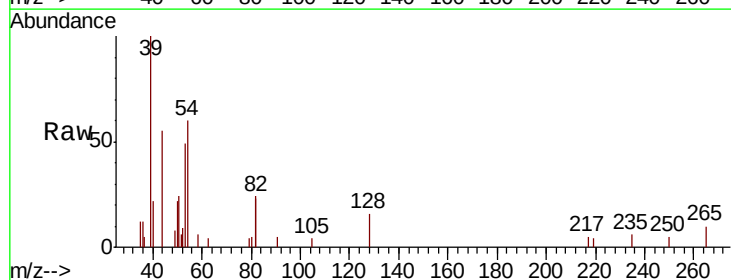
Acq: 25 Aug 2022 17:41

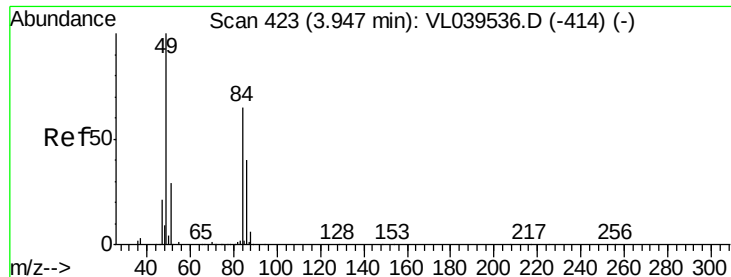
Tgt Ion: 39 Resp: 5295

Ion Ratio Lower Upper

39 100

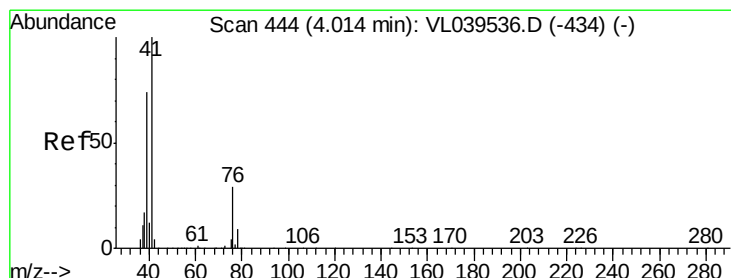
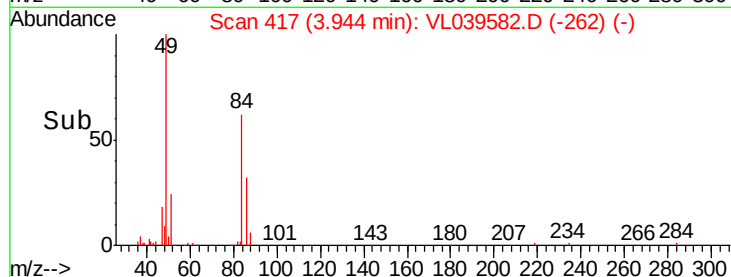
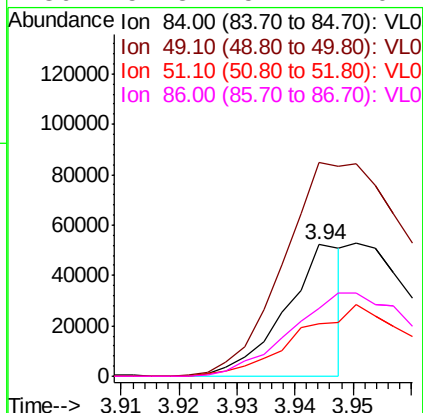
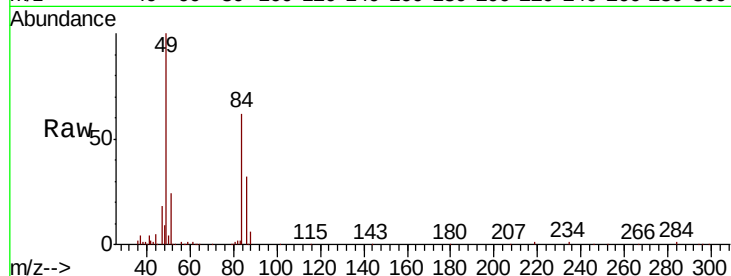
54 71.4 63.7 95.5





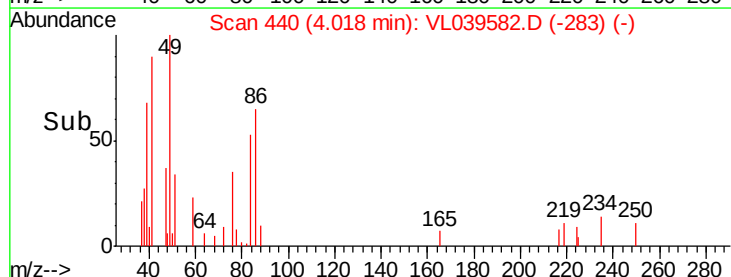
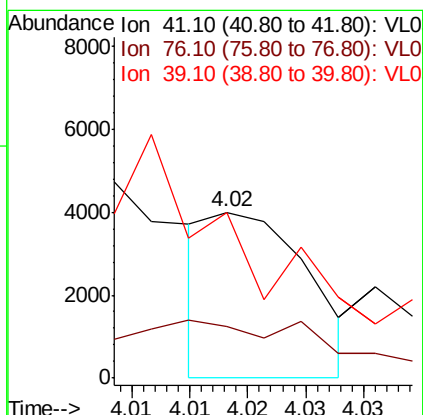
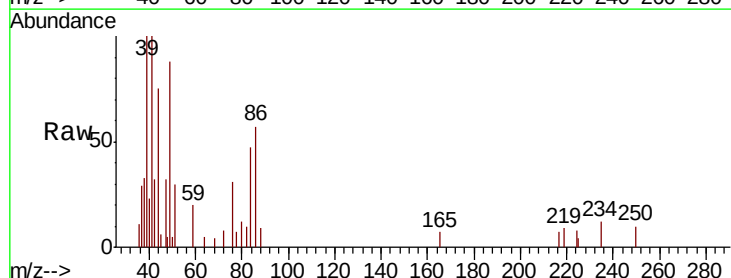
#20
Methylene Chloride
Concen: 0.818 ppbv
RT: 3.94
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 25 Aug 2022 17:41

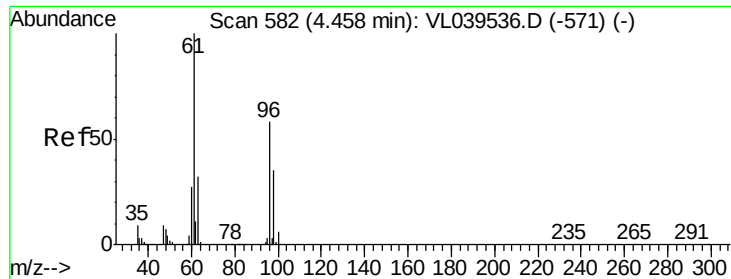
Tot Ion:	84	Resp:	36448
Ion	Ratio	Lower	Upper
84	100		
49	161.1	123.1	184.7
51	39.5	34.4	51.6
86	51.3	51.1	76.7



#21
Allyl Chloride
Concen: 0.033 ppbv
RT: 4.02 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL039582.D
Acq: 25 Aug 2022 17:41

Tgt Ion:	41	Resp:	2338
Ion	Ratio	Lower	Upper
41	100		
76	99.9	24.4	36.6#
39	407.8	63.5	95.3#





#22

trans-1,2-Dichloroethene

Concen: 0.077 ppbv

RT: 4.46 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Aug 2022 17:41 MDL-AIR-03-OT3-2022

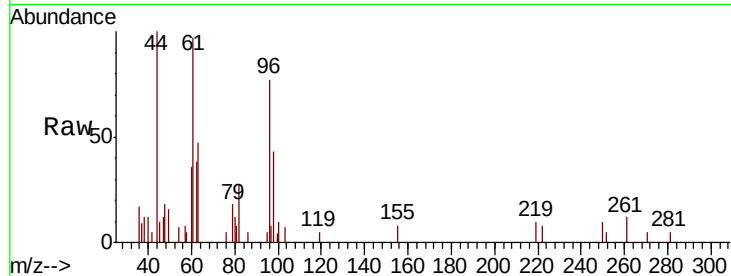
Tot Ion: 96 Resp: 3650

Ion Ratio Lower Upper

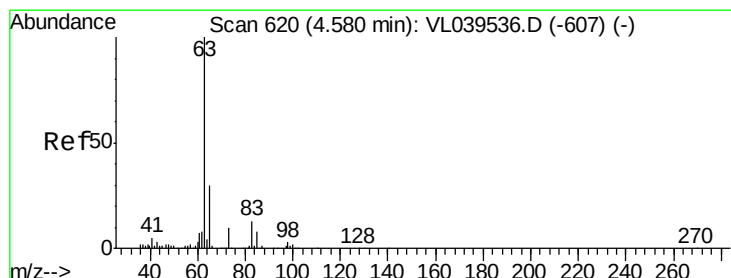
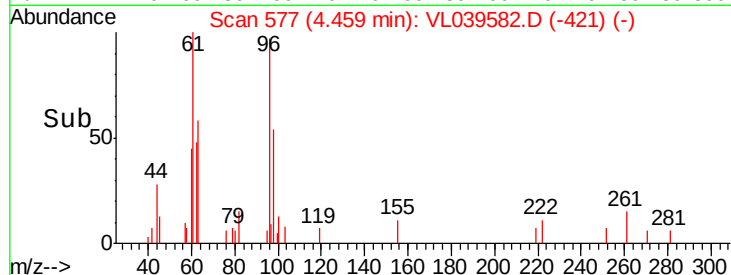
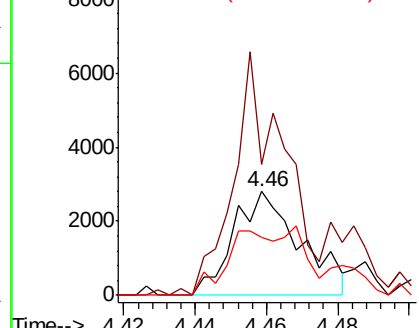
96 100

61 125.7 130.6 195.8#

98 55.6 53.4 80.0



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



#24

1,1-Dichloroethane

Concen: 0.067 ppbv

RT: 4.57 min Scan# 613

Delta R.T. -0.01 min

Lab File: VL039582.D

Acq: 25 Aug 2022 17:41

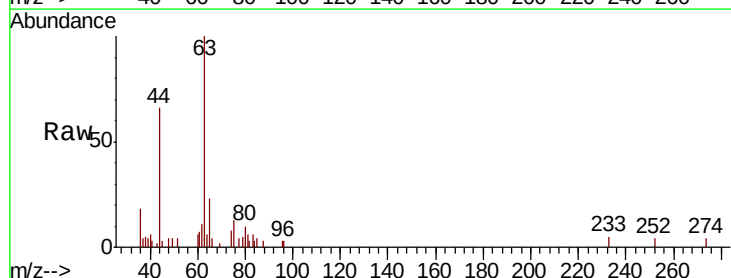
Tgt Ion: 63 Resp: 6505

Ion Ratio Lower Upper

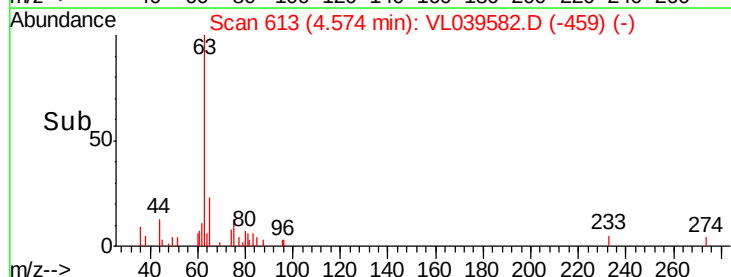
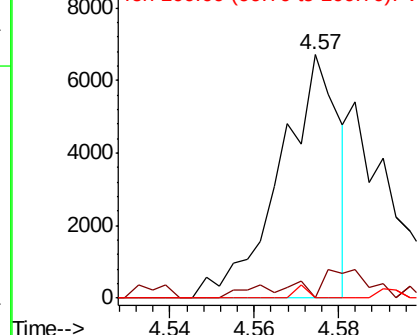
63 100

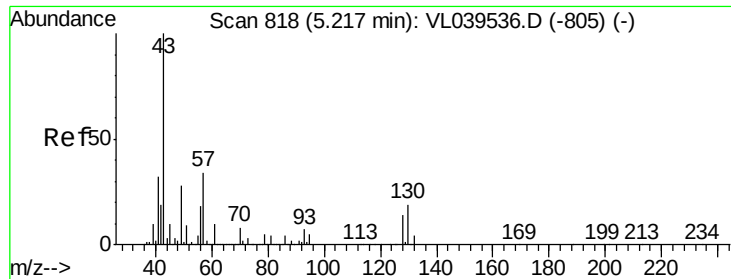
98 0.0 1.8 5.3#

100 0.0 1.5 4.4#



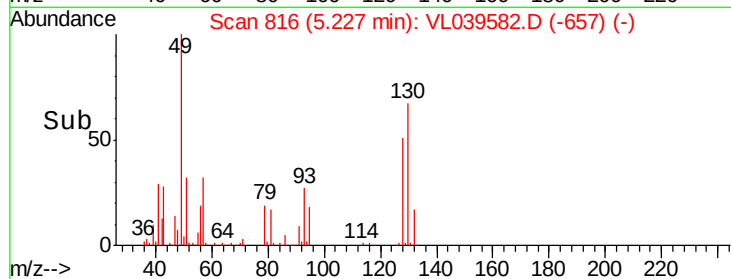
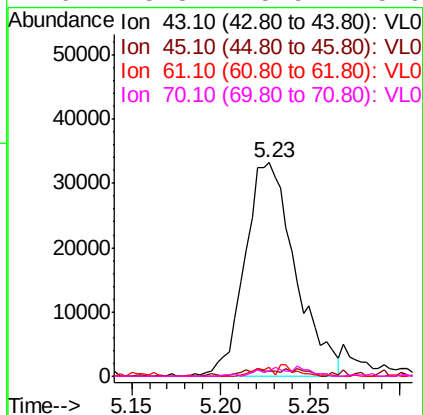
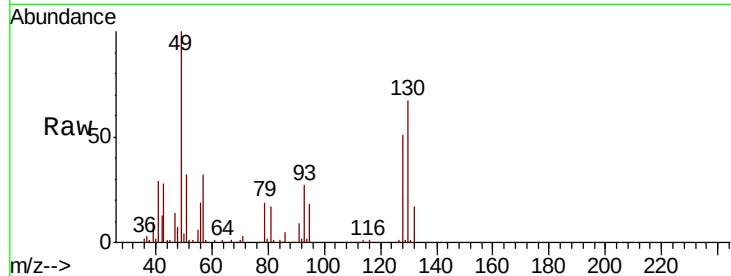
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





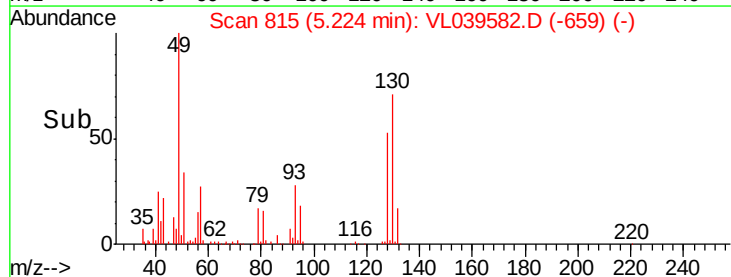
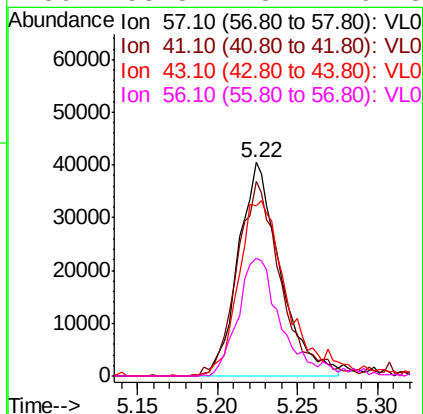
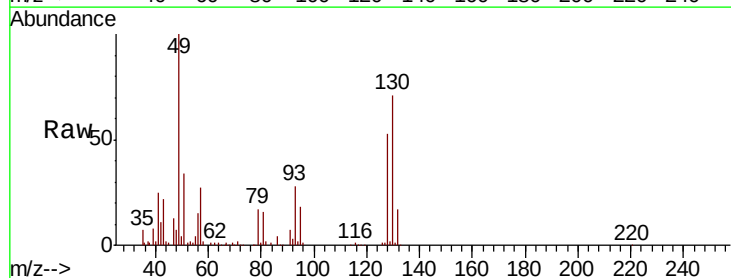
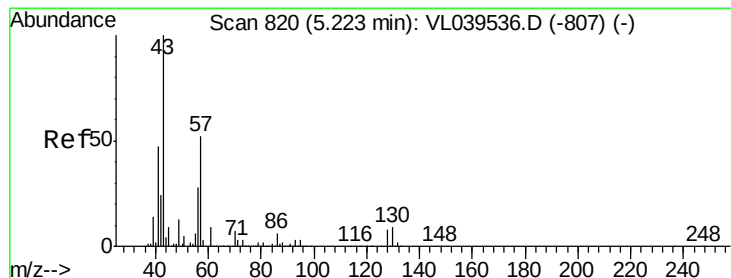
#25
Ethyl Acetate
Concen: 0.279 ppbv
RT: 5.23
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Aug 2022 17:41

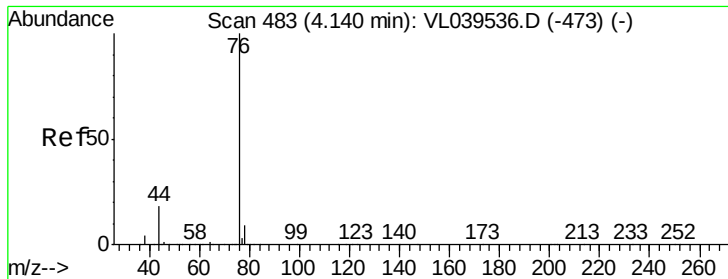
Tot Ion:	43	Resp:	65448
Ion	Ratio	Lower	Upper
43	100		
45	5.1	8.2	12.4#
61	3.5	8.3	12.5#
70	3.8	5.9	8.9#



#26
Hexane
Concen: 0.751 ppbv
RT: 5.22 min Scan# 815
Delta R.T. 0.00 min
Lab File: VL039582.D
Acq: 25 Aug 2022 17:41

Tgt Ion:	57	Resp:	72010
Ion	Ratio	Lower	Upper
57	100		
41	97.9	76.9	115.3
43	100.1	191.0	286.6#
56	58.8	43.2	64.8





#27

Carbon Disulfide

Concen: 0.050 ppbv

RT: 4.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Aug 2022 17:41 MDL-AIR-03-OT3-2022

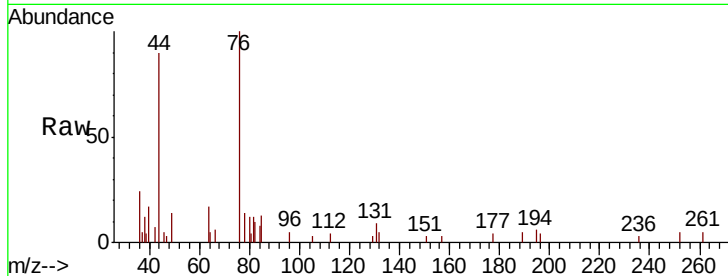
Tot Ion: 76 Resp: 5129

Ion Ratio Lower Upper

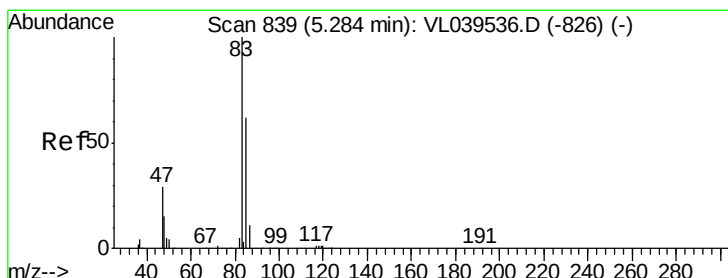
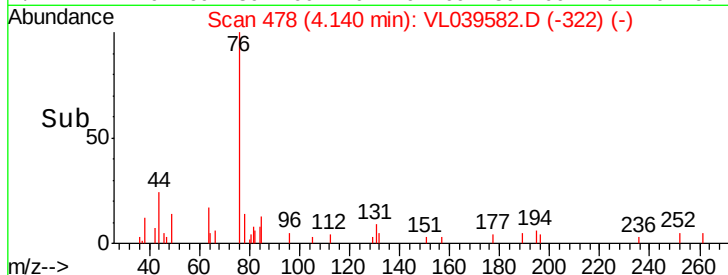
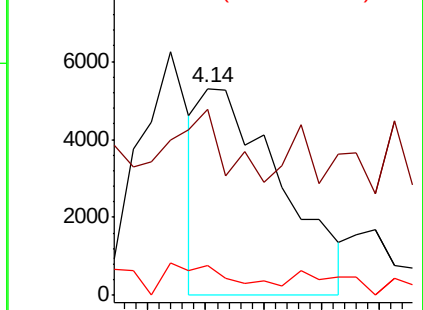
76 100

44 58.2 14.6 21.8#

78 0.0 7.8 11.6#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 0.080 ppbv

RT: 5.28 min Scan# 833

Delta R.T. -0.00 min

Lab File: VL039582.D

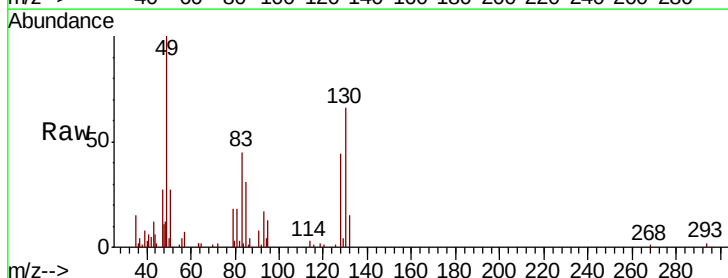
Acq: 25 Aug 2022 17:41

Tgt Ion: 83 Resp: 11937

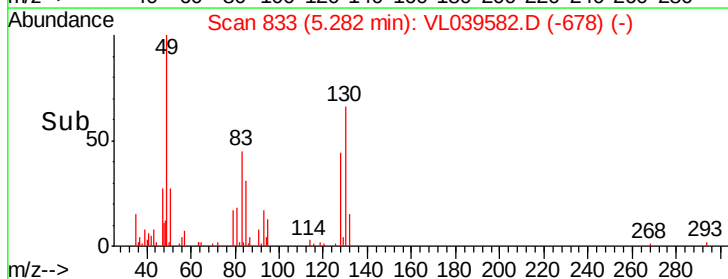
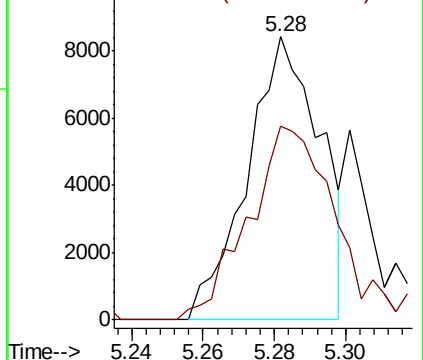
Ion Ratio Lower Upper

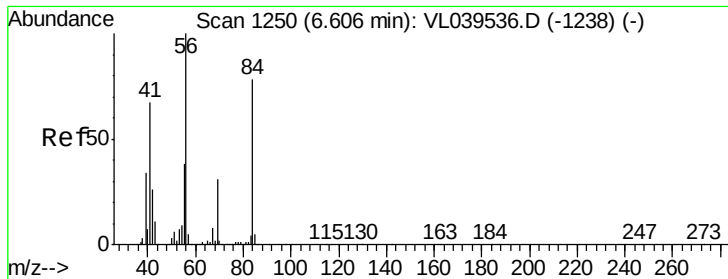
83 100

85 64.6 52.8 79.2



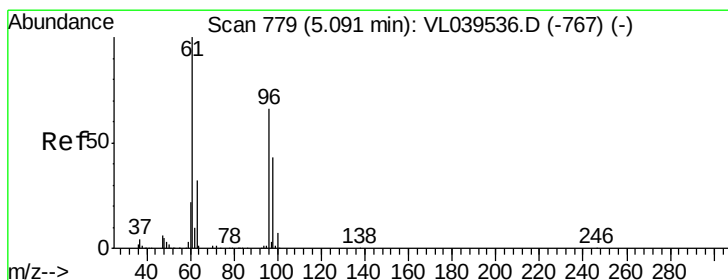
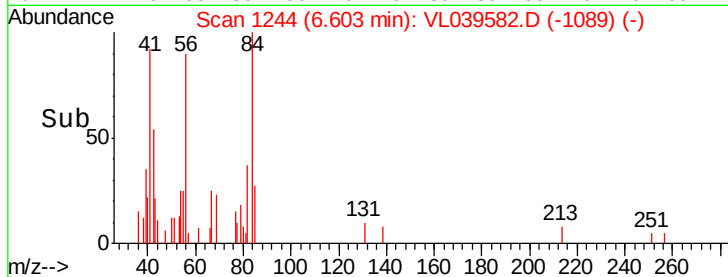
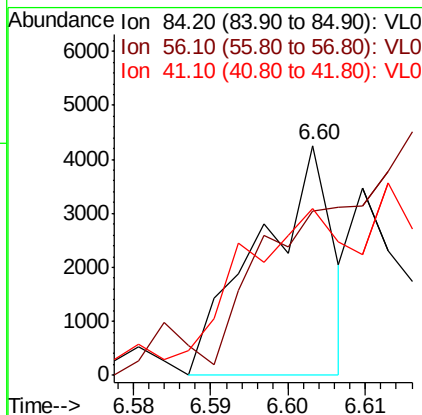
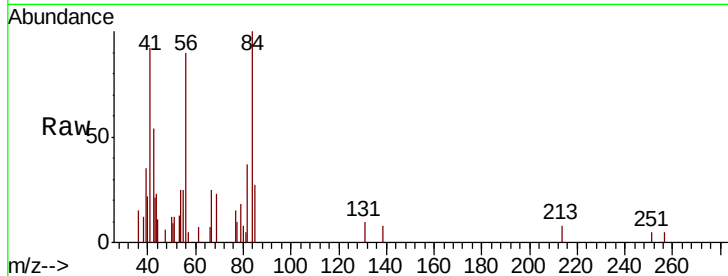
Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





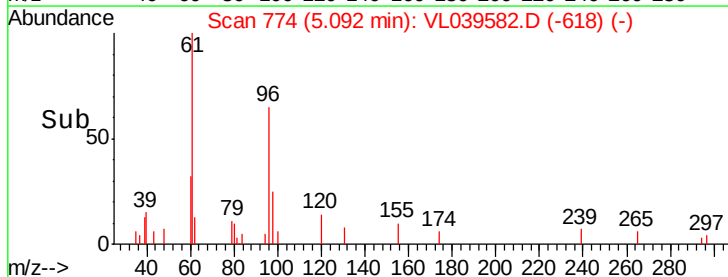
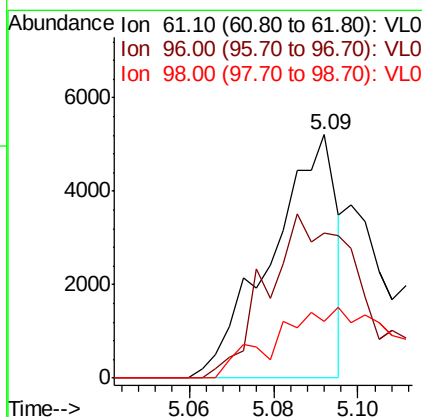
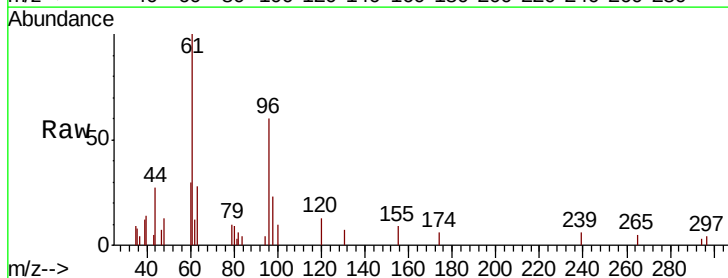
#30
Cvclohexane
Concen: 0.036 ppbv
RT: 6.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 25 Aug 2022 17:41

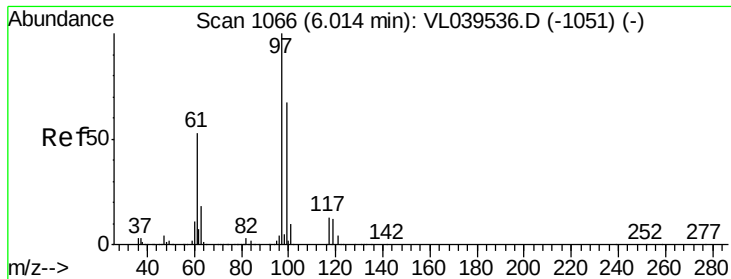
Tot Ion: 84 Resp: 2838
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 0.0 67.7 101.5#



#31
cis-1,2-Dichloroethene
Concen: 0.060 ppbv
RT: 5.09 min Scan# 774
Delta R.T. 0.00 min
Lab File: VL039582.D
Acq: 25 Aug 2022 17:41

Tgt Ion: 61 Resp: 5605
Ion Ratio Lower Upper
61 100
96 59.7 54.1 81.1
98 23.3 34.6 52.0#





#32

1,1,1-Trichloroethane

Concen: 0.074 ppbv

RT: 6.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Aug 2022 17:41 MDL-AIR-03-OT3-2022

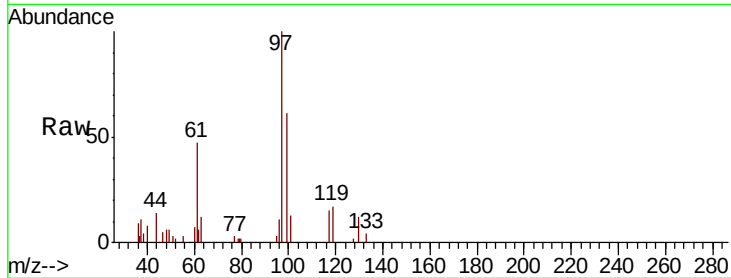
Tot Ion: 97 Resp: 9789

Ion Ratio Lower Upper

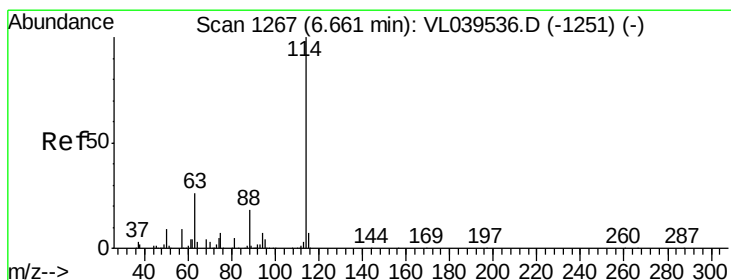
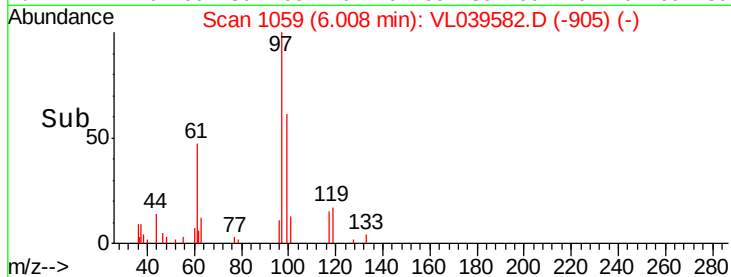
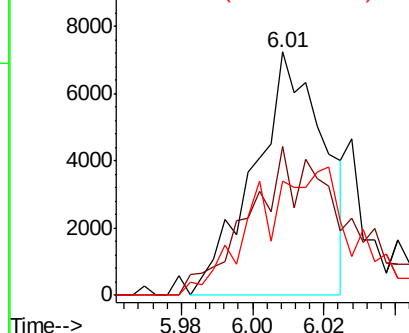
97 100

99 87.8 52.3 78.5#

61 0.0 40.9 61.3#



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: 10.000 ppbv

RT: 6.66 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VL039582.D

Acq: 25 Aug 2022 17:41

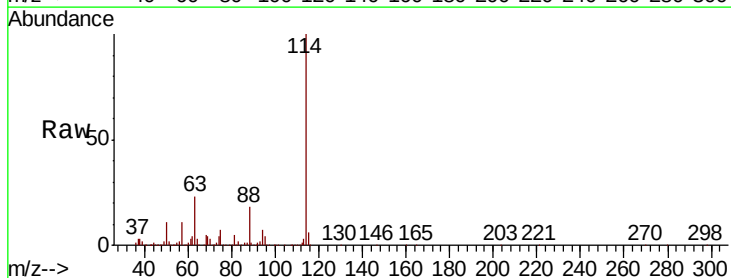
Tgt Ion: 114 Resp: 2607991

Ion Ratio Lower Upper

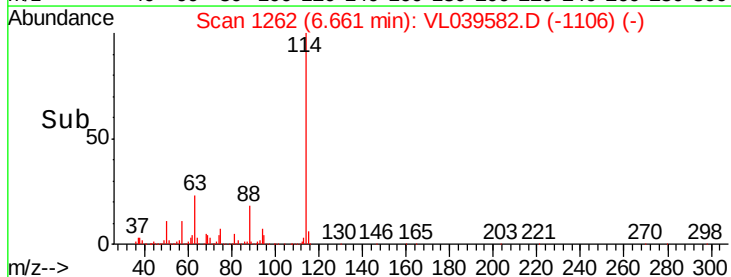
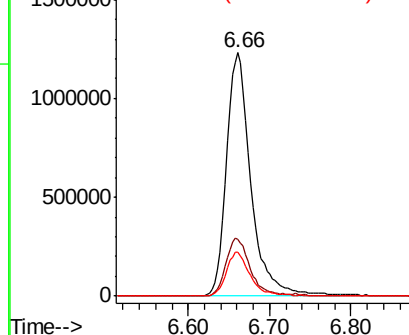
114 100

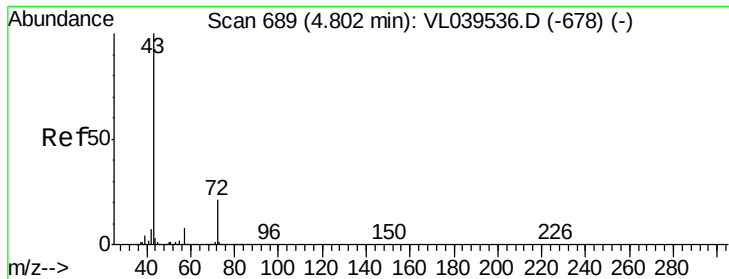
63 24.3 20.2 30.4

88 17.9 14.5 21.7



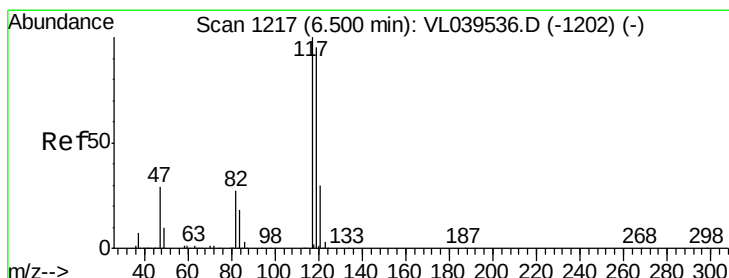
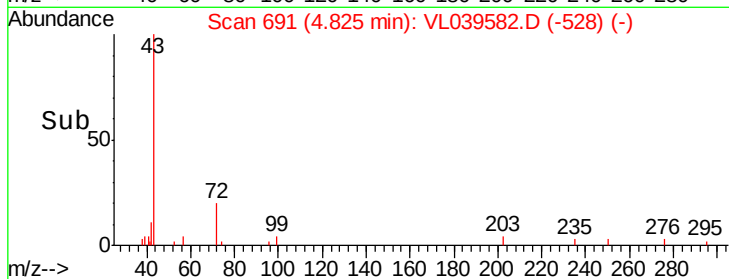
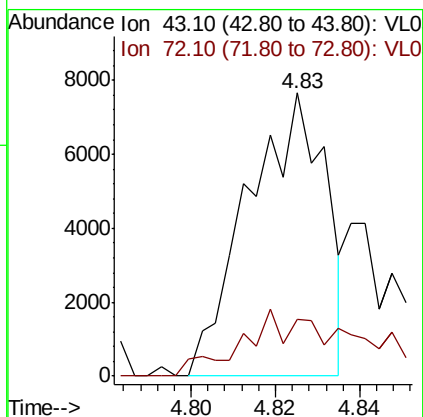
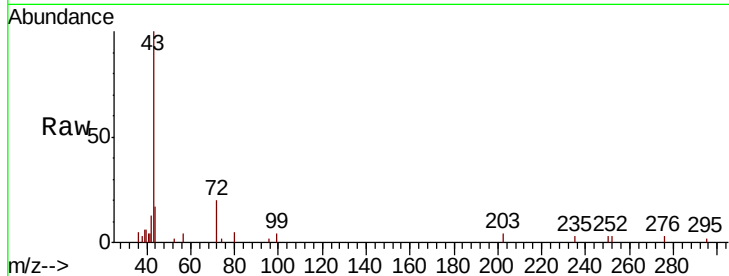
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





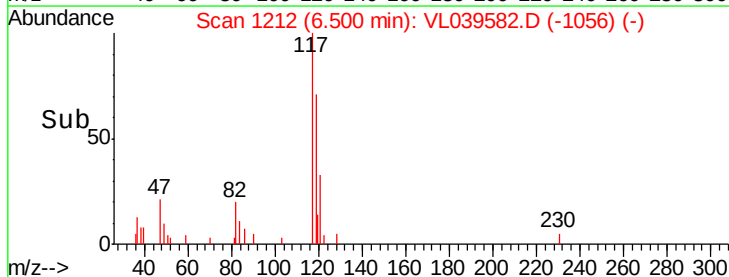
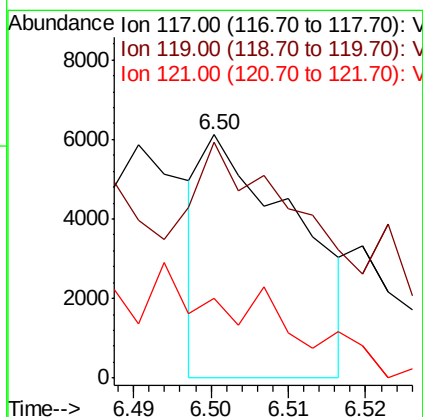
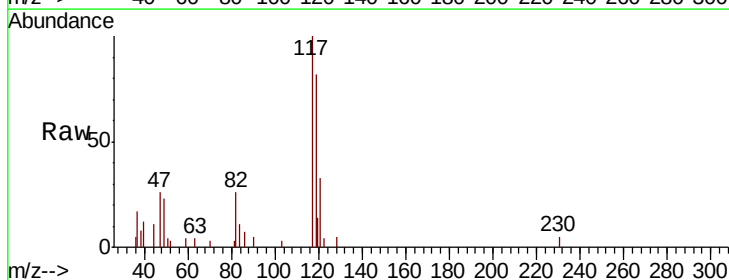
#34
 2-Butanone
 Concen: 0.076 ppbv
 RT: 4.83
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL-AIR-03-QT3-2022
 Acq: 25 Aug 2022 17:41

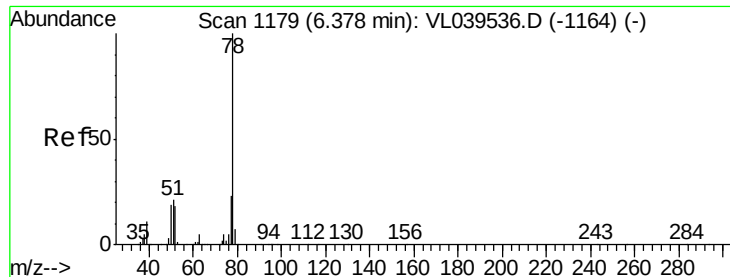
Tot Ion: 43 Resp: 9791
 Ion Ratio Lower Upper
 43 100
 72 34.3 17.9 26.9#



#35
 Carbon Tetrachloride
 Concen: 0.036 ppbv
 RT: 6.50 min Scan# 1212
 Delta R.T. 0.00 min
 Lab File: VL039582.D
 Acq: 25 Aug 2022 17:41

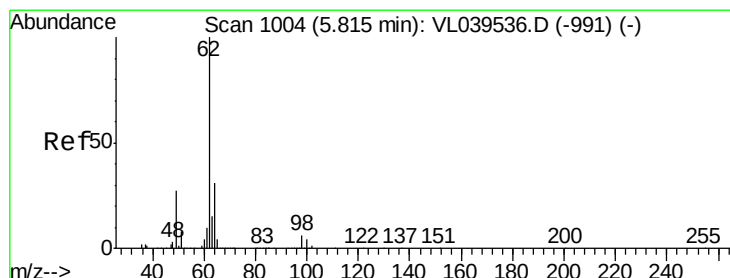
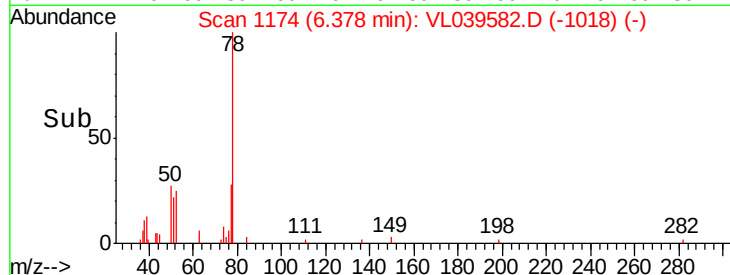
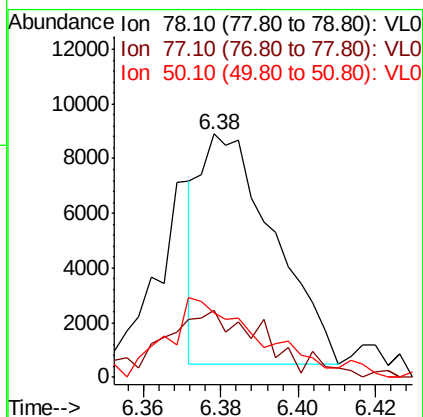
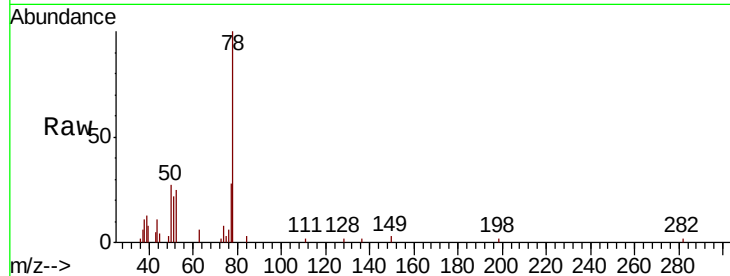
Tgt Ion: 117 Resp: 5139
 Ion Ratio Lower Upper
 117 100
 119 86.8 75.4 113.2
 121 27.3 24.2 36.2





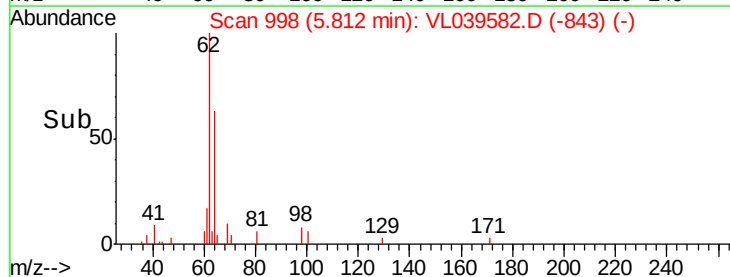
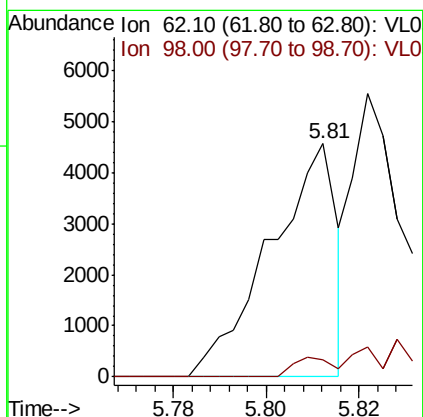
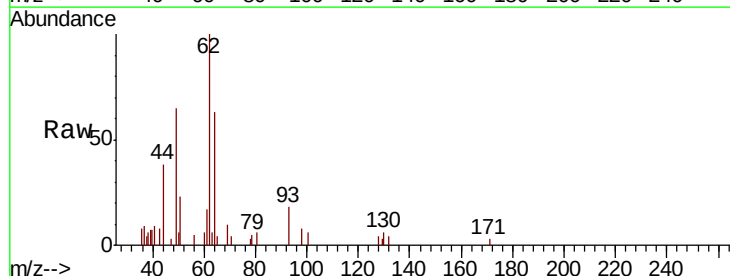
#36
Benzene
Concen: 0.056 ppbv
RT: 6.38
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 25 Aug 2022 17:41 MDL-AIR-03-OT3-2022

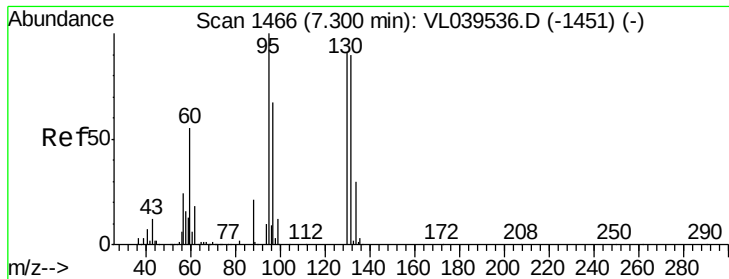
Tot Ion: 78 Resp: 11140
Ion Ratio Lower Upper
78 100
77 25.3 20.3 30.5
50 24.0 15.5 23.3#



#37
1,2-Dichloroethane
Concen: 0.042 ppbv
RT: 5.81 min Scan# 998
Delta R.T. -0.00 min
Lab File: VL039582.D
Acq: 25 Aug 2022 17:41

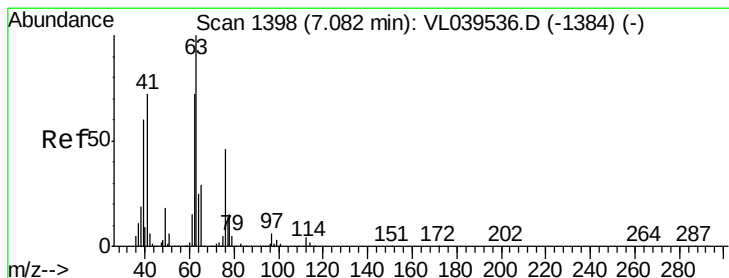
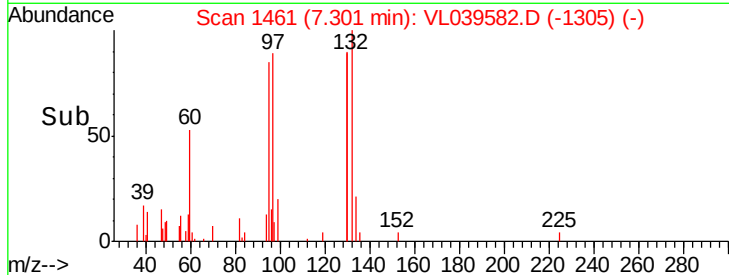
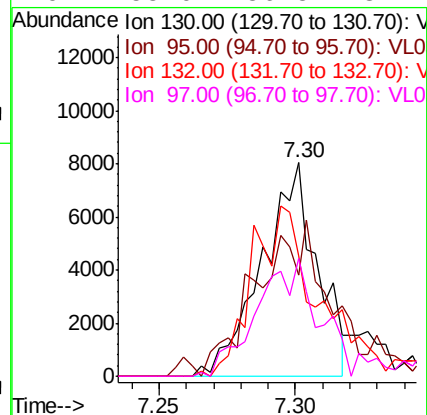
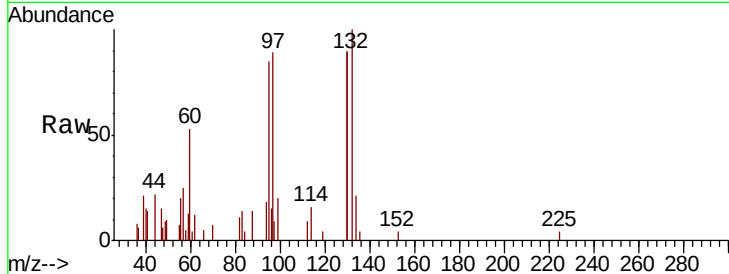
Tgt Ion: 62 Resp: 4548
Ion Ratio Lower Upper
62 100
98 0.0 5.1 7.7#





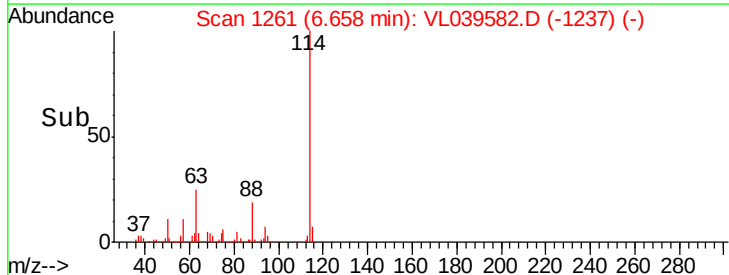
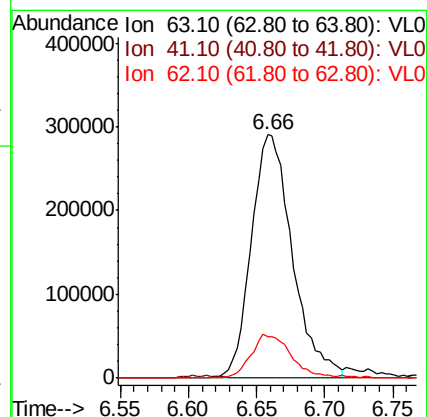
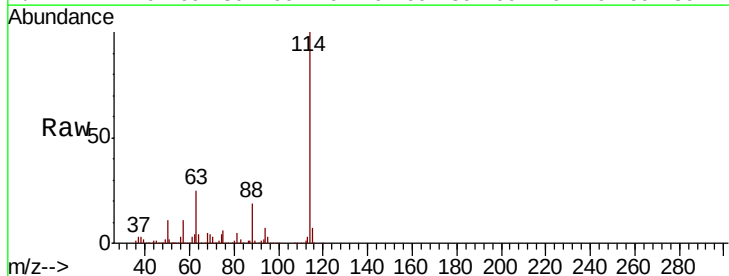
#38
 Trichloroethene
 Concen: 0.106 ppbv
 RT: 7.30
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Aug 2022 17:41

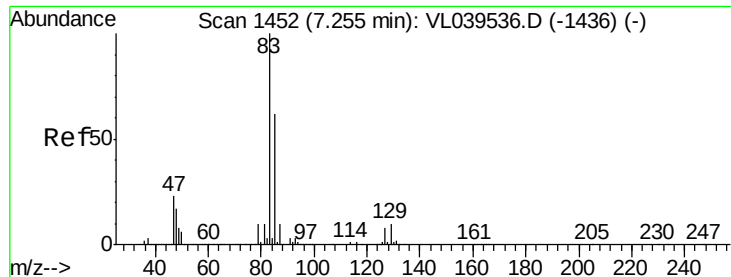
Tot Ion:	130	Resp:	11253
Ion	Ratio	Lower	Upper
130	100		
95	42.7	87.3	130.9#
132	56.1	76.7	115.1#
97	55.0	56.5	84.7#



#39
 1,2-Dichloropropane
 Concen: 8.128 ppbv
 RT: 6.66 min Scan# 1261
 Delta R.T. -0.42 min
 Lab File: VL039582.D
 Acq: 25 Aug 2022 17:41

Tgt Ion:	63	Resp:	607485
Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	16.9	51.4	77.0#





#42

Bromodichloromethane

Concen: 0.044 ppbv

RT: 7.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Aug 2022 17:41 MDL-AIR-03-OT3-2022

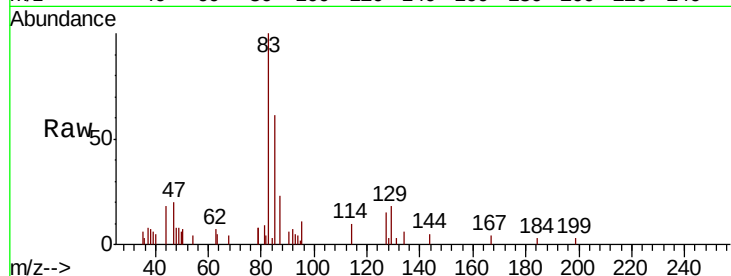
Tot Ion: 83 Resp: 6626

Ion Ratio Lower Upper

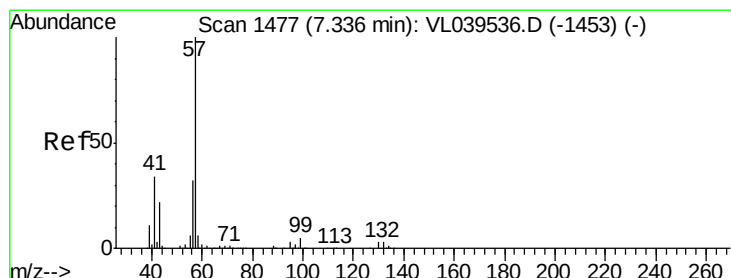
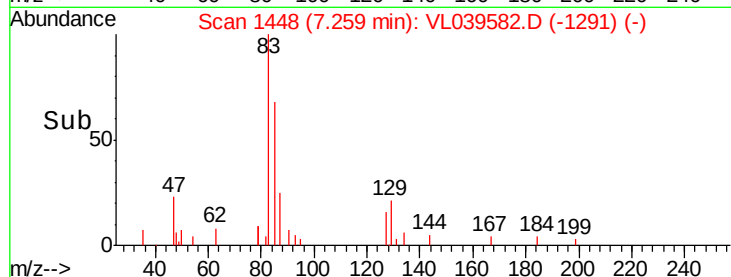
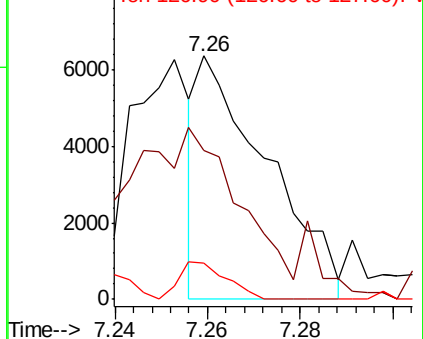
83 100

85 56.8 50.7 76.1

127 16.1 6.6 9.8#



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



#44

2,2,4-Trimethylpentane

Concen: 0.034 ppbv

RT: 7.33 min Scan# 1470

Delta R.T. -0.01 min

Lab File: VL039582.D

Acq: 25 Aug 2022 17:41

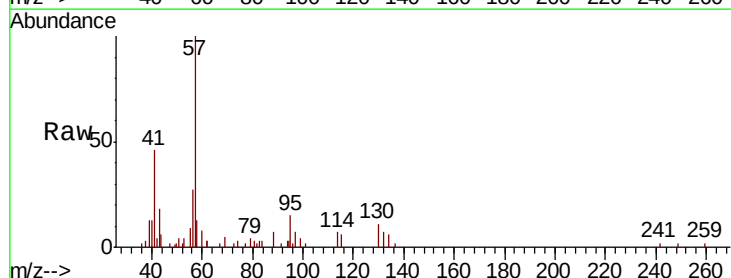
Tgt Ion: 57 Resp: 11431

Ion Ratio Lower Upper

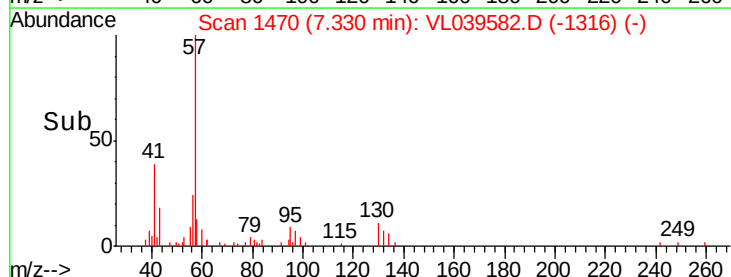
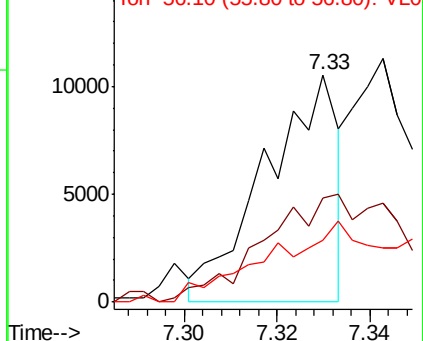
57 100

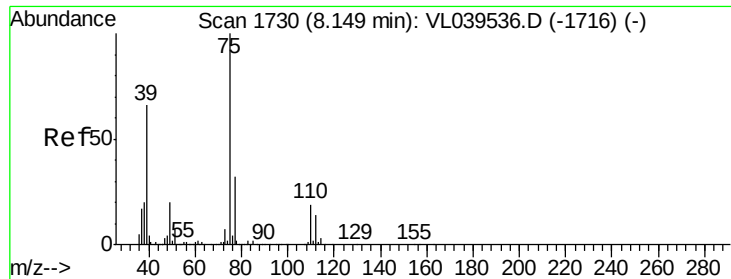
41 111.0 27.4 41.2#

56 77.8 24.5 36.7#



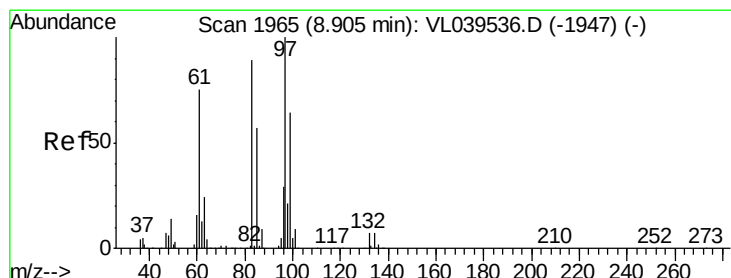
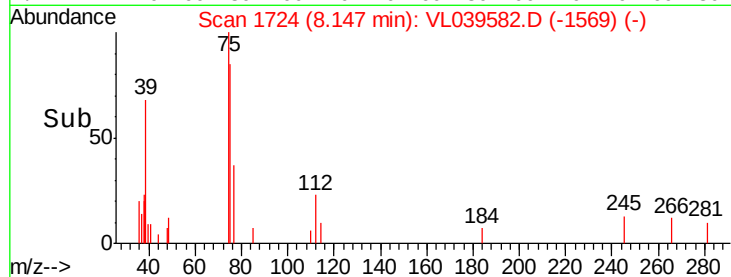
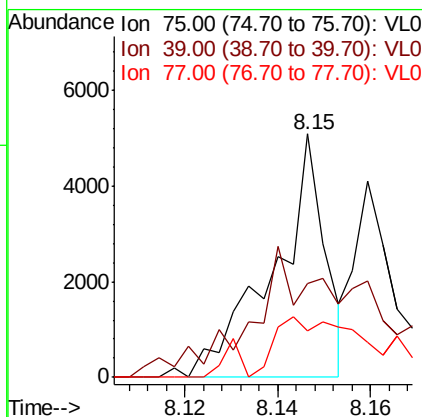
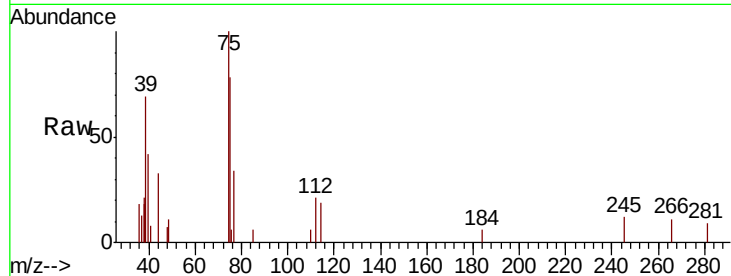
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





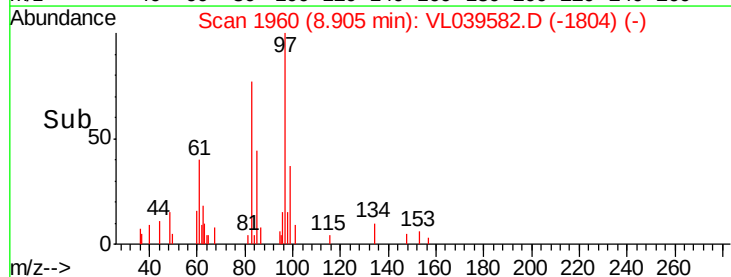
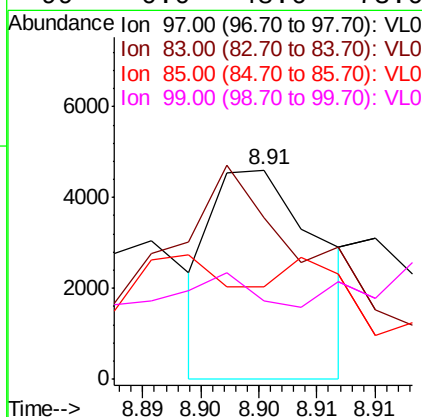
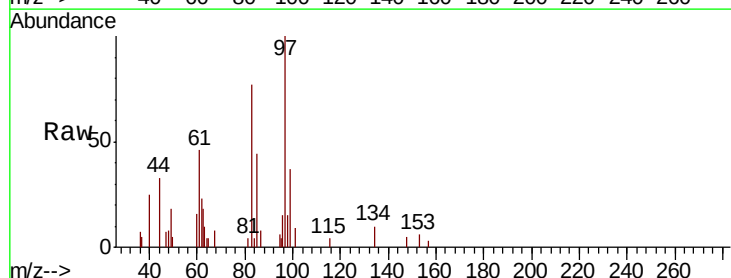
#46
 cis-1,3-Dichloropropene
 Concen: 0.045 ppbv
 RT: 8.15
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL-AIR-03-OT3-2022
 Acq: 25 Aug 2022 17:41

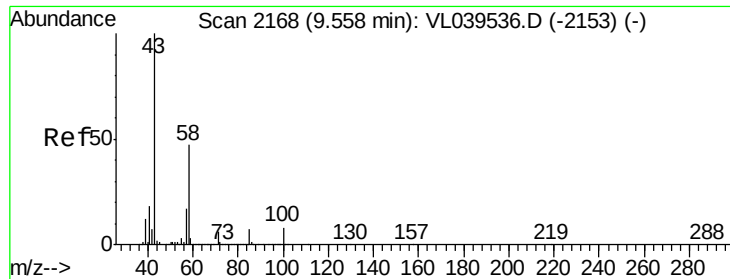
Tot Ion: 75 Resp: 3925
 Ion Ratio Lower Upper
 75 100
 39 26.1 55.0 82.4#
 77 19.0 25.7 38.5#



#47
 1,1,2-Trichloroethane
 Concen: 0.035 ppbv
 RT: 8.91 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VL039582.D
 Acq: 25 Aug 2022 17:41

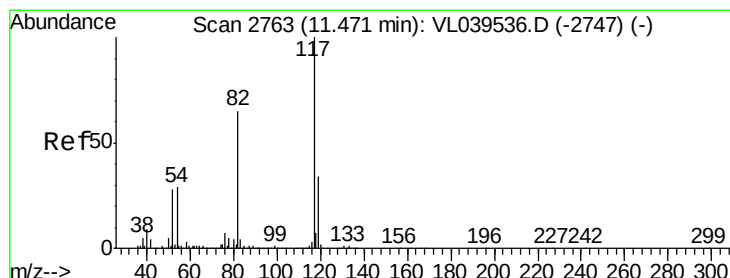
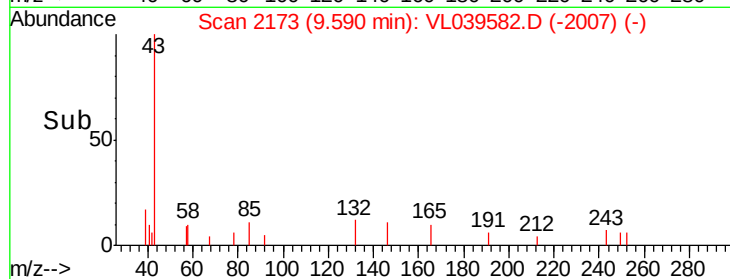
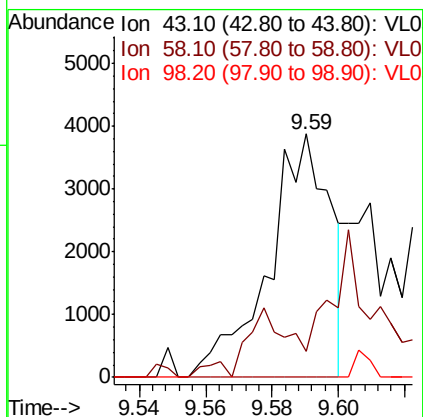
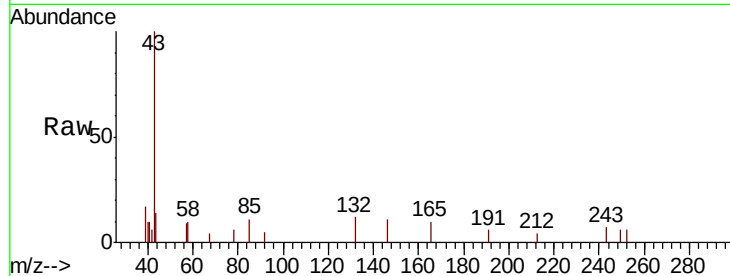
Tgt Ion: 97 Resp: 2959
 Ion Ratio Lower Upper
 97 100
 83 28.7 67.4 101.0#
 85 0.0 45.1 67.7#
 99 0.0 48.6 73.0#





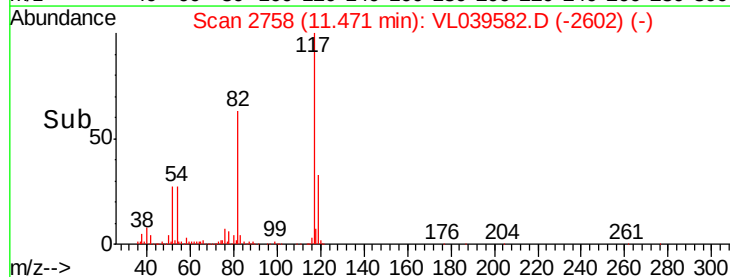
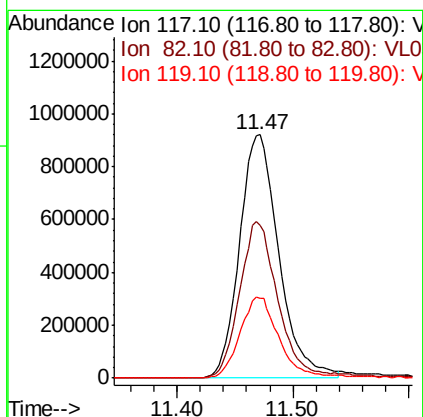
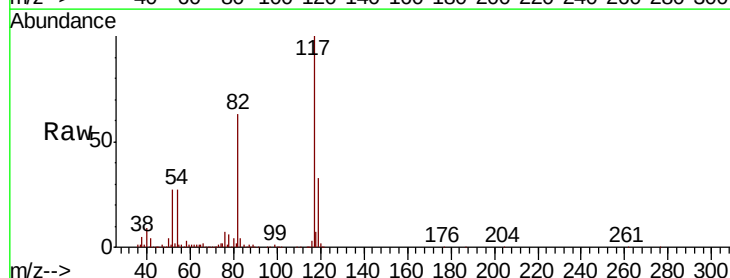
#51
2-Hexanone
Concen: 0.034 ppbv
RT: 9.59 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Aug 2022 17:41 MDL-AIR-03-OT3-2022

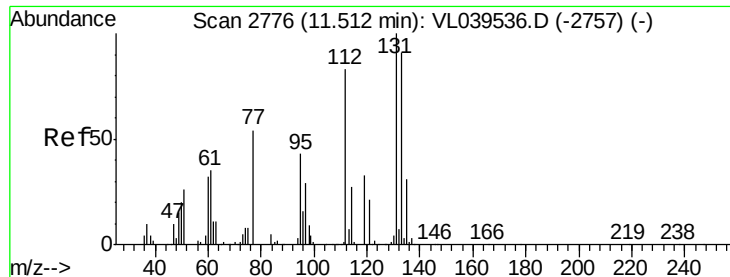
Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.4	57.6#
98	0.0	0.3	0.5#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.47 min Scan# 2758
Delta R.T.: 0.00 min
Lab File: VL039582.D
Acq: 25 Aug 2022 17:41

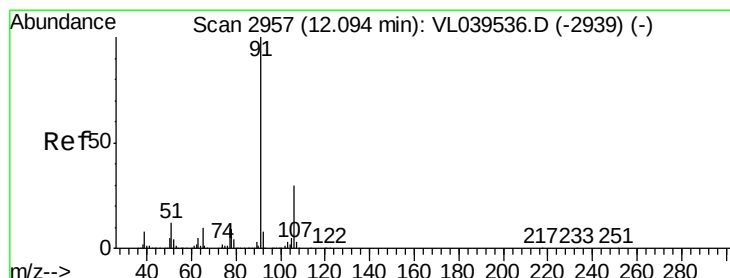
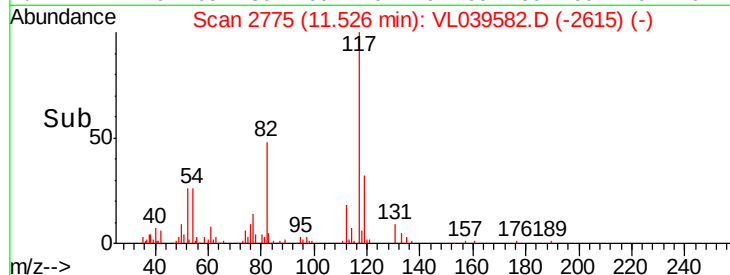
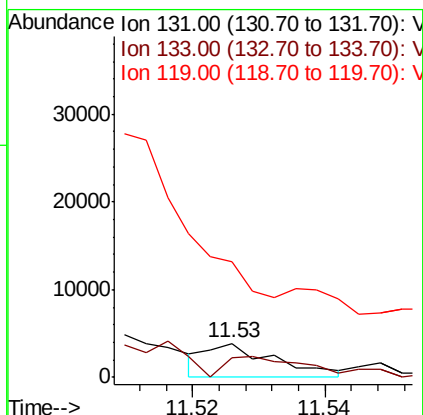
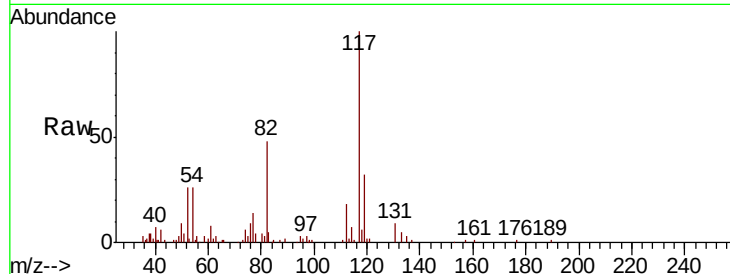
Tgt Ion	Ratio	Lower	Upper
117	100		
82	64.7	50.8	76.2
119	34.1	24.1	36.1





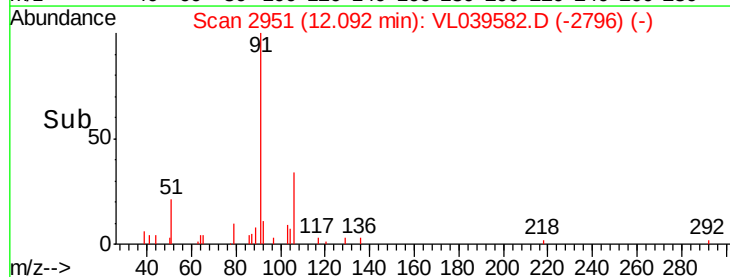
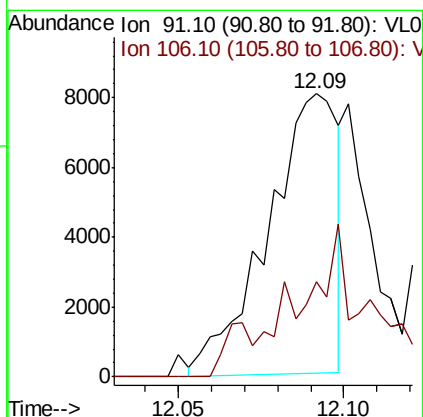
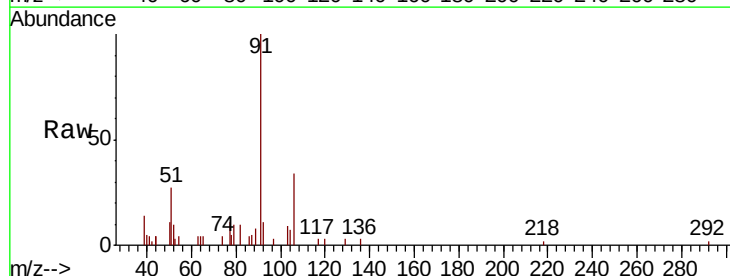
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.032 ppbv
 RT: 11.53
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Aug 2022 17:41 MDL-AIR-03-OT3-2022

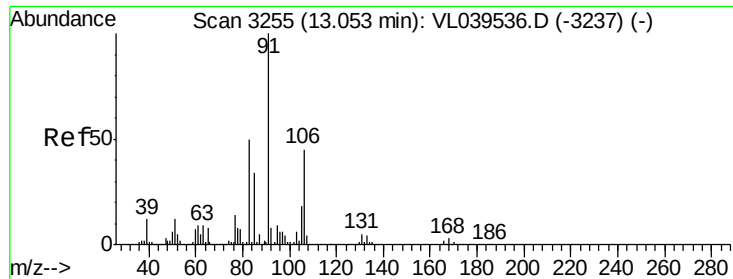
Tot Ion: 131 Resp: 2827
 Ion Ratio Lower Upper
 131 100
 133 0.0 76.8 115.2#
 119 0.0 46.2 69.4#



#58
 Ethyl Benzene
 Concen: 0.047 ppbv
 RT: 12.09 min Scan# 2951
 Delta R.T. -0.00 min
 Lab File: VL039582.D
 Acq: 25 Aug 2022 17:41

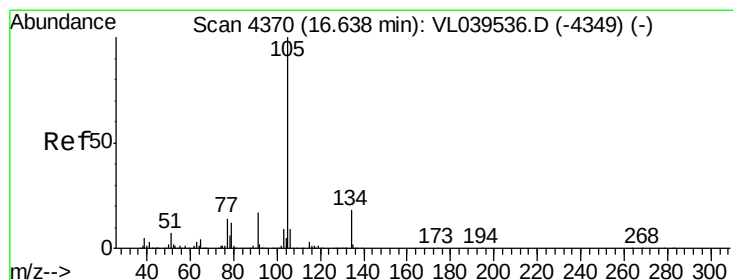
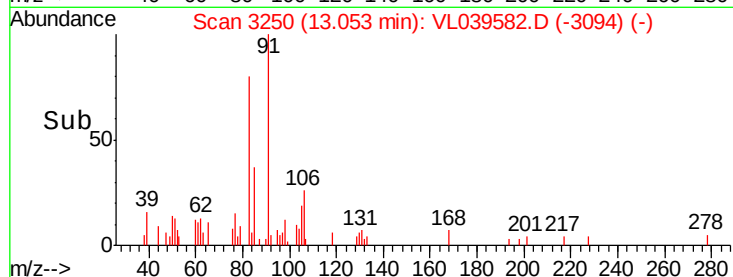
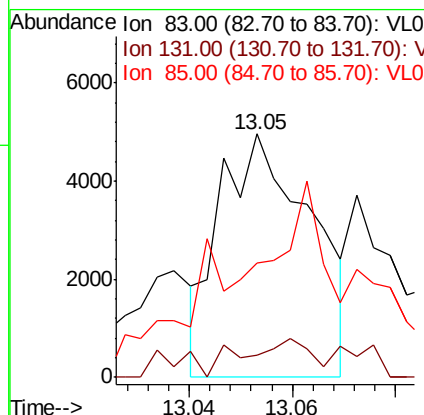
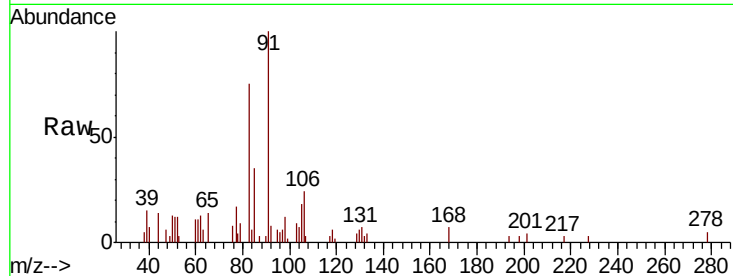
Tgt Ion: 91 Resp: 11788
 Ion Ratio Lower Upper
 91 100
 106 34.9 25.4 38.0





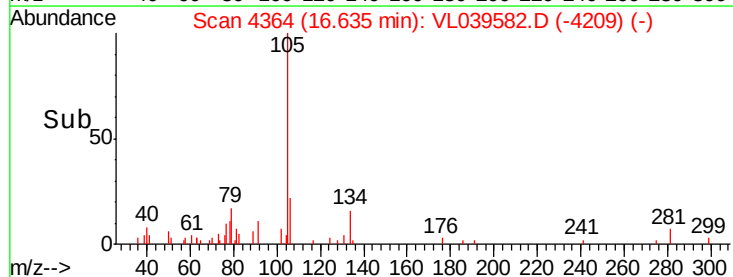
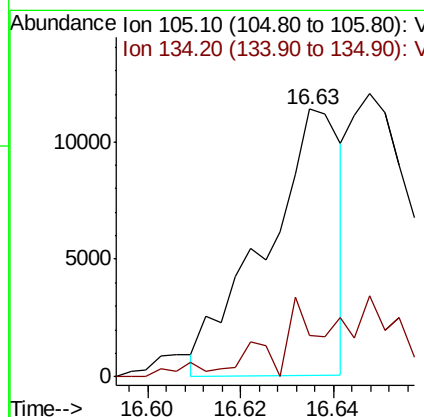
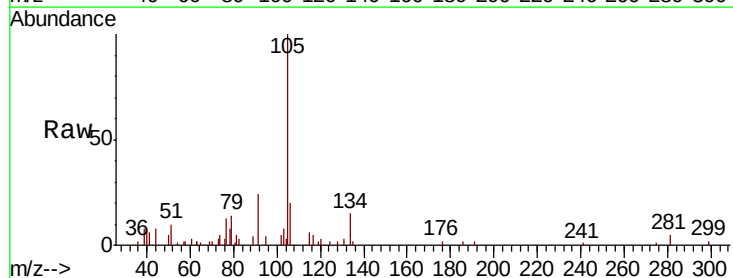
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.060 ppbv
 RT: 13.05
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 25 Aug 2022 17:41

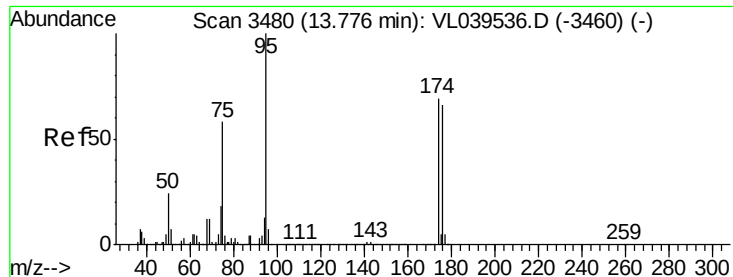
Tot Ion: 83 Resp: 6112
 Ion Ratio Lower Upper
 83 100
 131 22.4 5.3 15.8#
 85 125.7 33.1 99.5#



#67
 sec-Butylbenzene
 Concen: 0.031 ppbv
 RT: 16.63 min Scan# 4364
 Delta R.T. -0.00 min
 Lab File: VL039582.D
 Acq: 25 Aug 2022 17:41

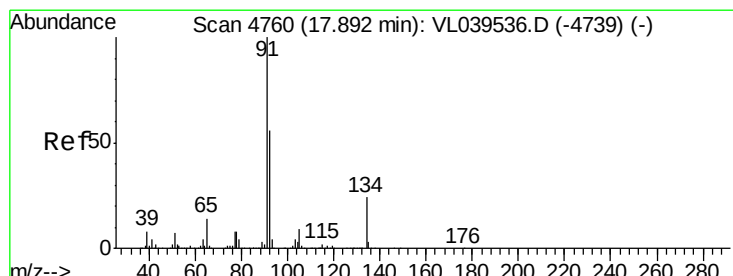
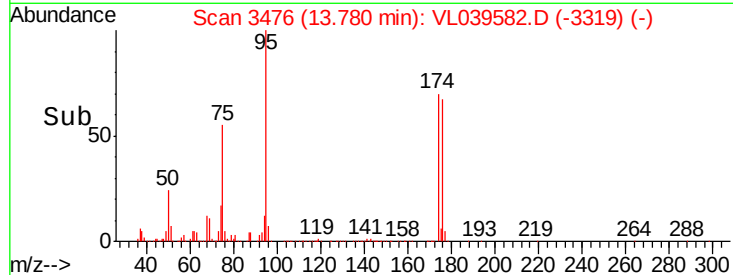
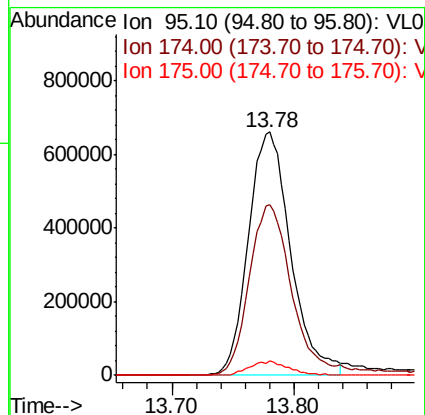
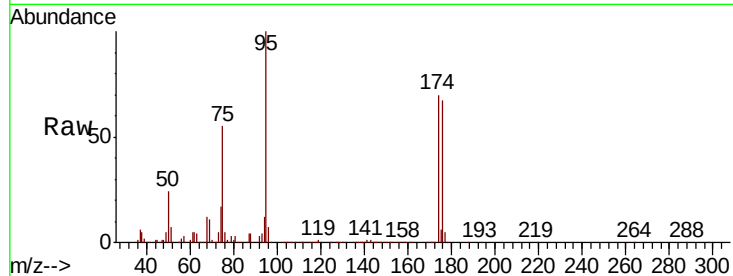
Tgt Ion:105 Resp: 12782
 Ion Ratio Lower Upper
 105 100
 134 0.0 14.8 22.2#





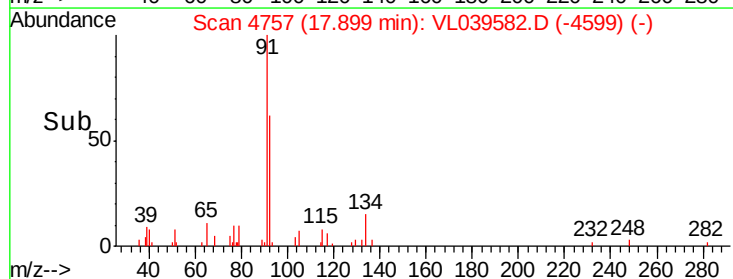
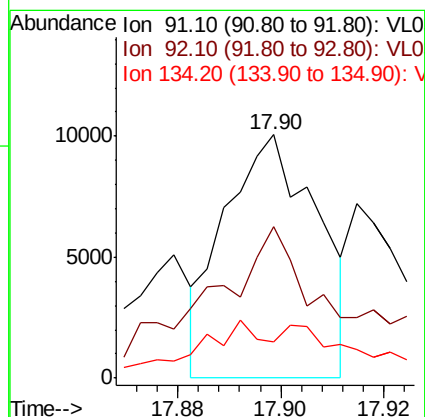
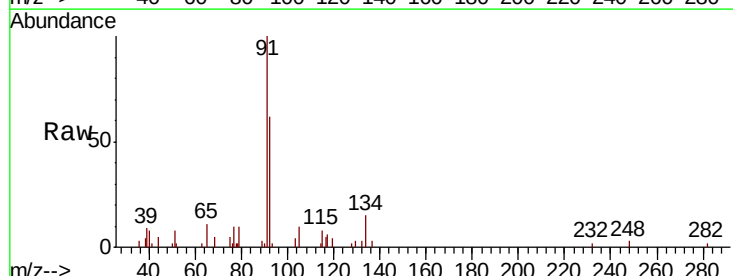
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.659 ppbv
 RT: 13.78 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 MDL-AIR-03-QT3-2022
 Acq: 25 Aug 2022 17:41

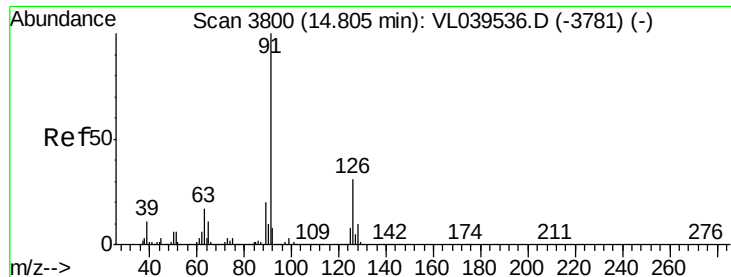
Tot Ion: 95 Resp: 1584199
 Ion Ratio Lower Upper
 95 100
 174 75.3 55.9 83.9
 175 5.7 4.2 6.4



#70
 n-Butylbenzene
 Concen: 0.037 ppbv
 RT: 17.90 min Scan# 4757
 Delta R.T. 0.01 min
 Lab File: VL039582.D
 Acq: 25 Aug 2022 17:41

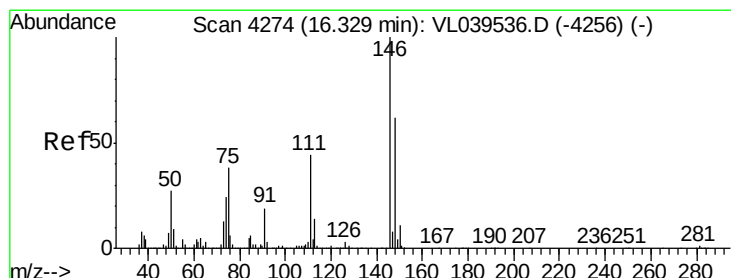
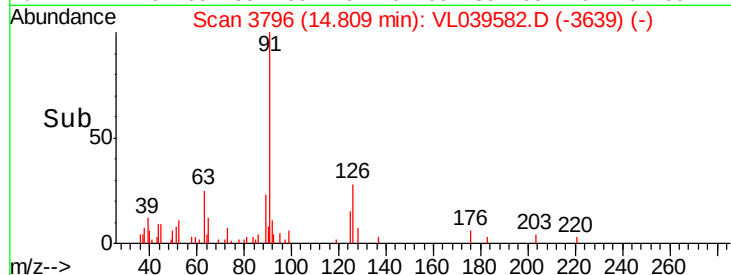
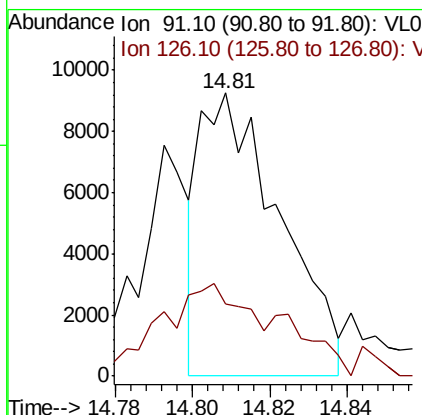
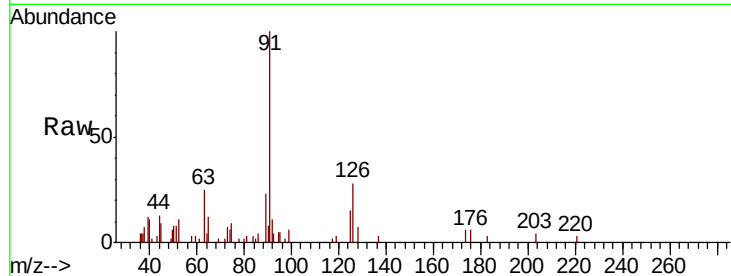
Tgt Ion: 91 Resp: 12582
 Ion Ratio Lower Upper
 91 100
 92 107.6 43.4 65.2#
 134 41.8 18.9 28.3#





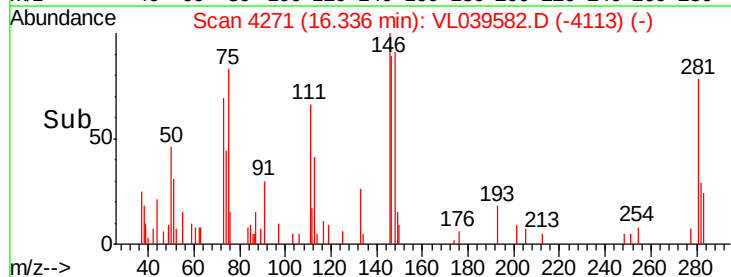
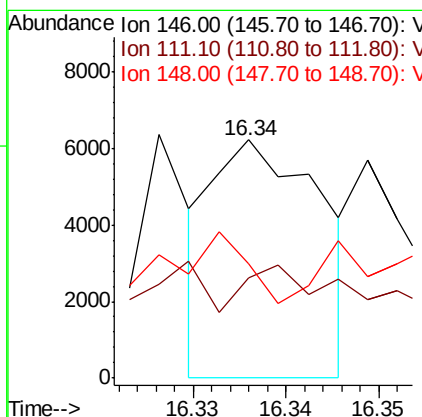
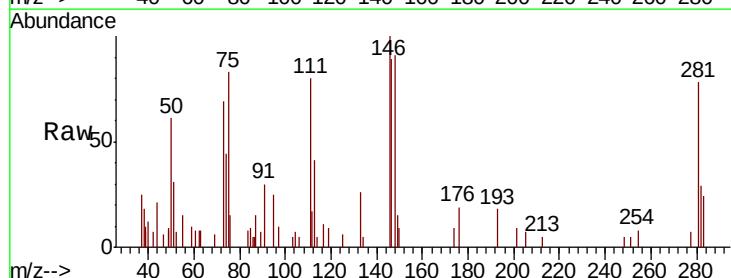
#71
 2-Chlorotoluene
 Concen: 0.056 ppbv
 RT: 14.81
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Aug 2022 17:41

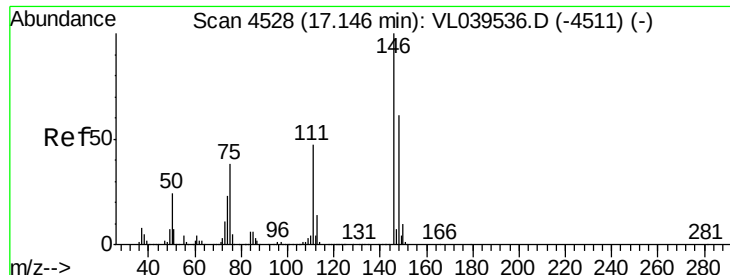
Tot Ion: 91 Resp: 13235
 Ion Ratio Lower Upper
 91 100
 126 53.8 13.0 51.8#



#75
 1,3-Dichlorobenzene
 Concen: 0.033 ppbv
 RT: 16.34 min Scan# 4271
 Delta R.T. 0.01 min
 Lab File: VL039582.D
 Acq: 25 Aug 2022 17:41

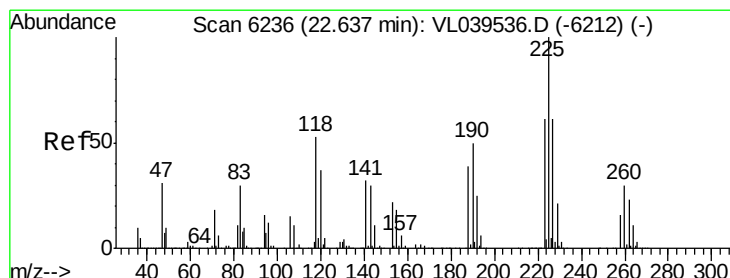
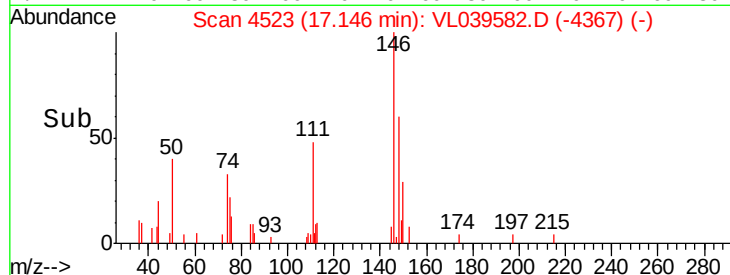
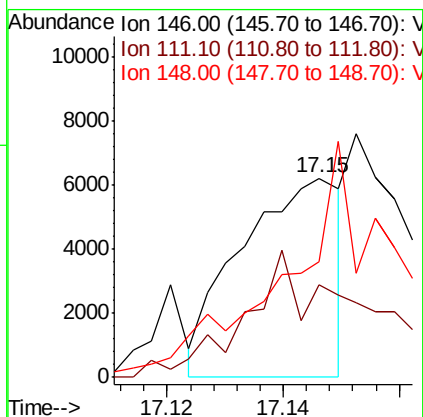
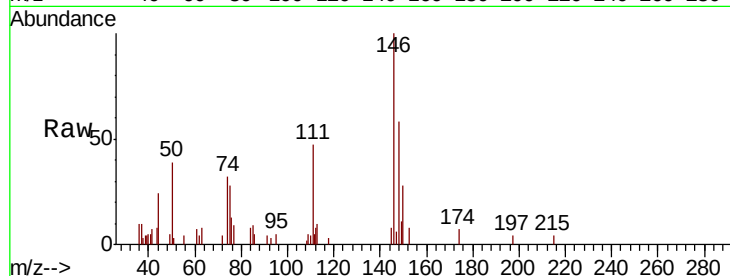
Tgt Ion: 146 Resp: 5066
 Ion Ratio Lower Upper
 146 100
 111 213.4 22.9 68.7#
 148 205.7 32.1 96.5#





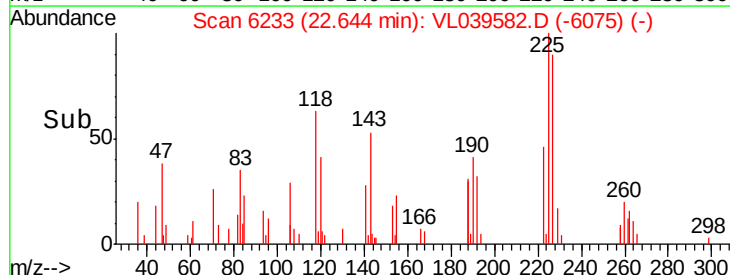
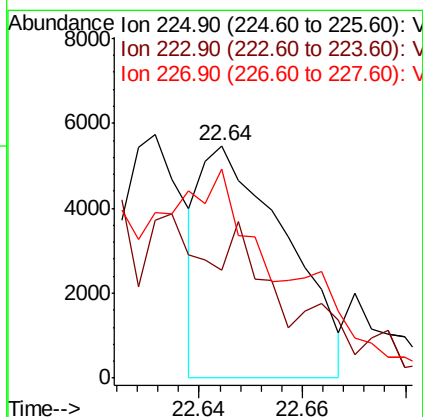
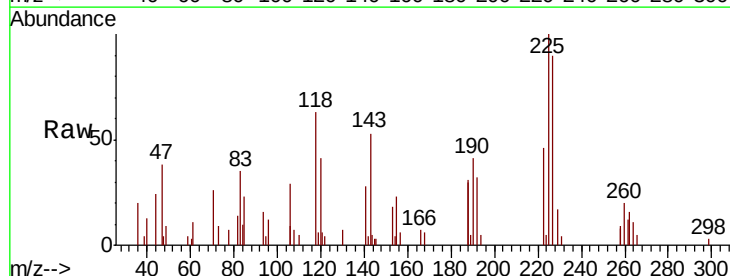
#77
 1,2-Dichlorobenzene
 Concen: 0.049 ppbv
 RT: 17.15 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 25 Aug 2022 17:41

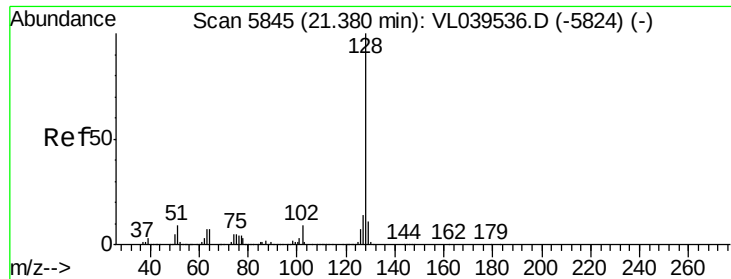
Tot Ion:146 Resp: 7450
 Ion Ratio Lower Upper
 146 100
 111 100.8 23.8 71.5#
 148 0.0 32.3 96.8#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.052 ppbv
 RT: 22.64 min Scan# 6233
 Delta R.T. 0.01 min
 Lab File: VL039582.D
 Acq: 25 Aug 2022 17:41

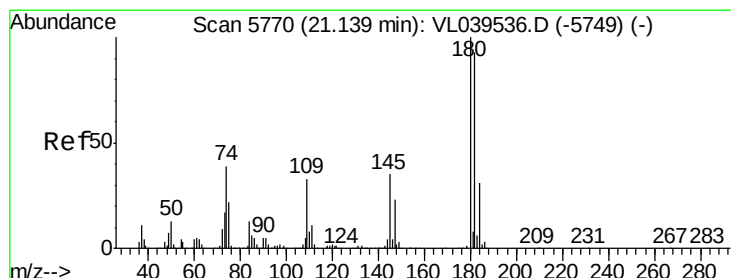
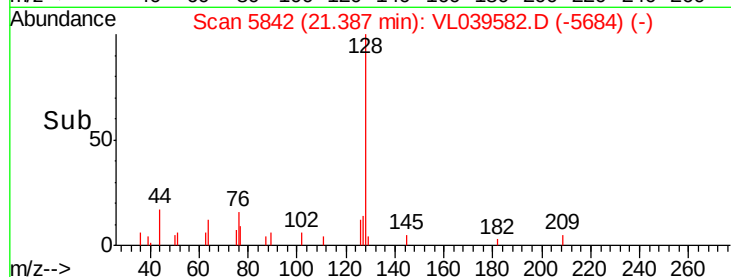
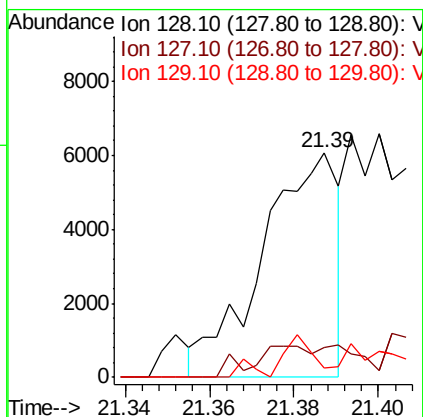
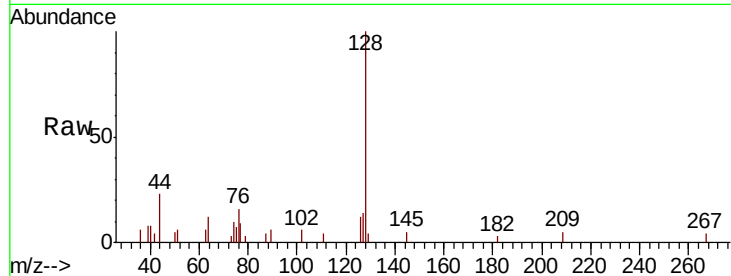
Tgt Ion:225 Resp: 6274
 Ion Ratio Lower Upper
 225 100
 223 0.0 51.8 77.6#
 227 209.1 51.4 77.2#





#79
Naphthalene
Concen: 0.042 ppbv
RT: 21.39 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Aug 2022 17:41 MDL-AIR-03-OT3-2022

Tot Ion:128 Resp: 7599
Ion Ratio Lower Upper
128 100
127 15.5 10.6 15.8
129 4.6 8.8 13.2#



#81
1,2,4-Trichlorobenzene
Concen: 0.046 ppbv
RT: 21.15 min Scan# 5767
Delta R.T.: 0.01 min
Lab File: VL039582.D
Acq: 25 Aug 2022 17:41

Tgt Ion:180 Resp: 5622
Ion Ratio Lower Upper
180 100
182 0.0 77.1 115.7#
184 73.5 24.3 36.5#

