

Data File : VL034879.D
Acq On : 10 Mar 2020 23:27
Operator : SY/AP
Sample : L1161-15 0.03 PPB MDL
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Quant Time: Mar 11 05:57:48 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	833333	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1855803	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1822309	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.45 95 1488007 10.47 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 104.70%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.01	85	9233	0.081 ppbv	98
3) Chlorodifluoromethane	2.95	51	5514	0.059 ppbv	99
4) Chloromethane	3.09	50	672	0.013 ppbv #	41
6) Bromomethane	3.44	94	852	0.029 ppbv #	51
7) Chloroethane	3.52	64	293	0.016 ppbv #	81
8) Dichlorotetrafluoroethane	3.15	85	6545	0.055 ppbv	84
10) Heptane	8.13	43	1697	0.016 ppbv #	36
11) Trichlorofluoromethane	3.92	101	4140	0.034 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.46	101	2535	0.030 ppbv #	11
13) Ethanol	3.59	45	844	0.062 ppbv #	50
14) Bromoethene	3.71	108	1137	0.031 ppbv #	38
16) 1,3-Butadiene	3.29	39	1117	0.023 ppbv #	9
18) 1,1-Dichloroethene	4.27	96	1149	0.031 ppbv #	72
20) Methylene Chloride	4.31	84	1029	0.030 ppbv #	77
21) Allyl Chloride	4.38	41	1368	0.020 ppbv #	26
22) trans-1,2-Dichloroethene	4.87	96	1724	0.045 ppbv #	70
24) 1,1-Dichloroethane	4.99	63	3326	0.031 ppbv #	82
25) Ethyl Acetate	5.67	43	2826	0.015 ppbv #	75
26) Hexane	5.67	57	2475	0.030 ppbv #	1
28) Methyl tert-Butyl Ether	5.05	73	5011	0.036 ppbv	96
29) Chloroform	5.73	83	2512	0.020 ppbv	93
31) cis-1,2-Dichloroethene	5.53	61	1079	0.013 ppbv #	65
32) 1,1,1-Trichloroethane	6.51	97	1539	0.012 ppbv #	1
35) Carbon Tetrachloride	7.02	117	2001	0.017 ppbv #	79
36) Benzene	6.89	78	3455	0.021 ppbv #	73
37) 1,2-Dichloroethane	6.30	62	3239	0.035 ppbv #	90
38) Trichloroethene	7.85	130	1260	0.020 ppbv #	34
39) 1,2-Dichloropropane	7.18	63	492856	7.520 ppbv #	21
40) 1,4-Dioxane	7.93	88	439	0.018 ppbv #	65
42) Bromodichloromethane	7.80	83	1489	0.012 ppbv #	88
43) Methyl Methacrylate	8.03	69	1040	0.015 ppbv #	1
46) cis-1,3-Dichloropropene	8.72	75	1310	0.013 ppbv #	51
47) 1,1,2-Trichloroethane	9.49	97	1522	0.023 ppbv #	70
54) 1,2-Dibromoethane	10.64	107	1131	0.011 ppbv #	34
56) 1,1,1,2-Tetrachloroethane	12.15	131	1018	0.012 ppbv #	1
57) Chlorobenzene	12.18	112	2670	0.019 ppbv #	34
58) Ethyl Benzene	13.00	91	3866	0.016 ppbv	92
59) m/p-Xylene	13.02	91	3791	0.018 ppbv #	30
62) Isopropylbenzene	14.70	105	6736	0.022 ppbv #	49
63) 1,1,2,2-Tetrachloroethane	13.71	83	1818	0.013 ppbv #	17
75) 1,3-Dichlorobenzene	17.03	146	1606	0.012 ppbv #	1

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031020\
Quantitation Report (Not Reviewed)

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration

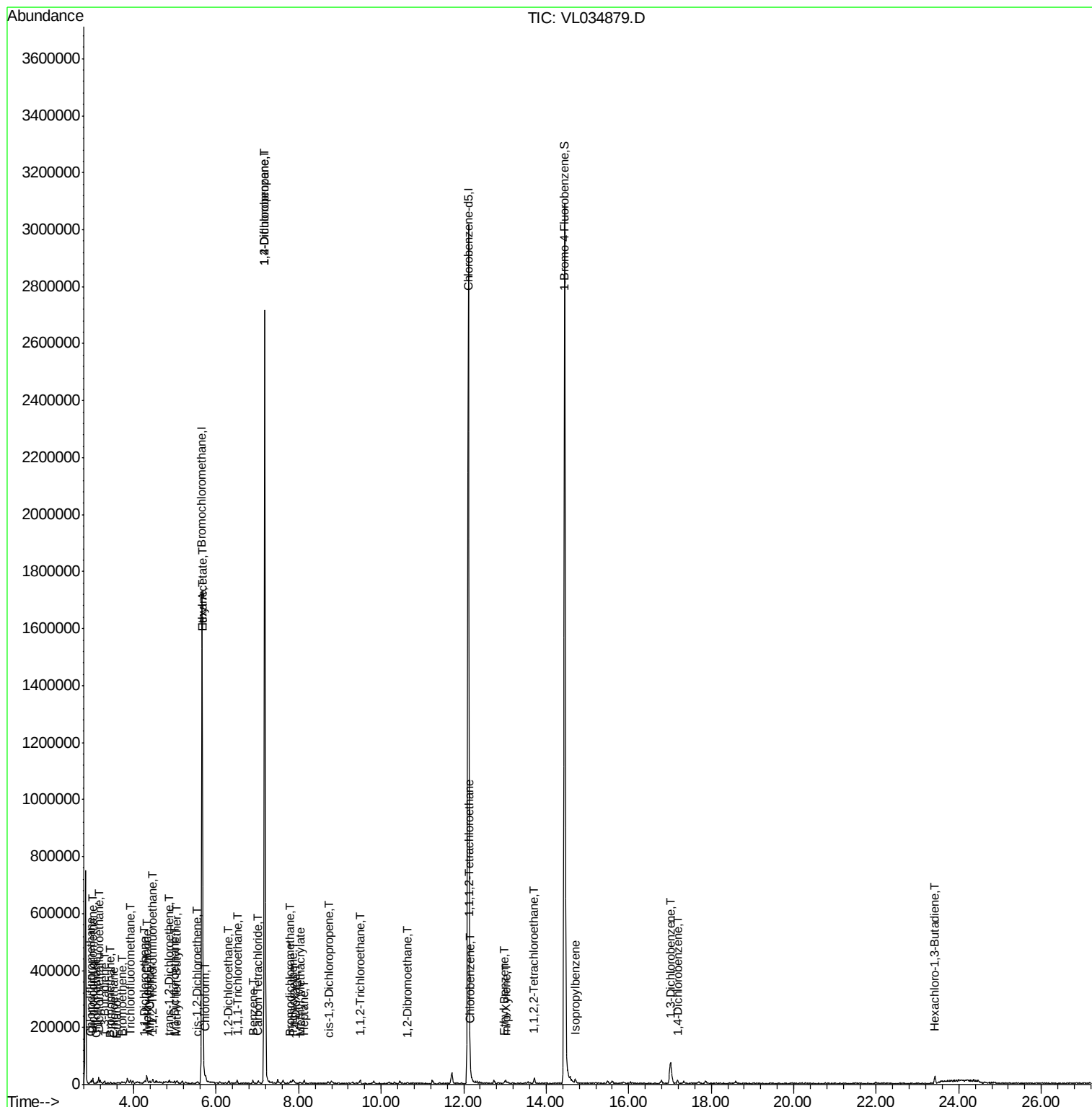
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-Dichlorobenzene	17.18	146	2138	0.015	ppbv #	11
78) Hexachloro-1,3-Butadiene	23.42	225	2766	0.025	ppbv #	1

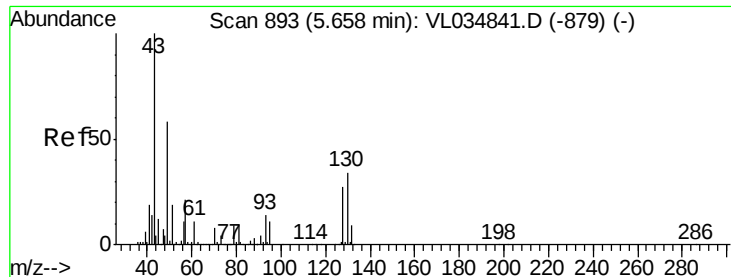
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.00 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

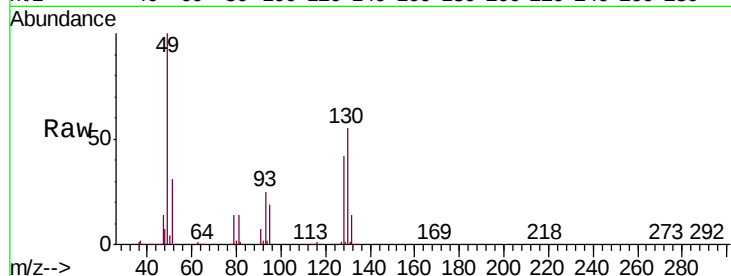
Tgt Ion: 49 Resp: 833333

Ion Ratio Lower Upper

49 100

128 46.6 23.4 70.3

130 59.5 30.0 90.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

400000

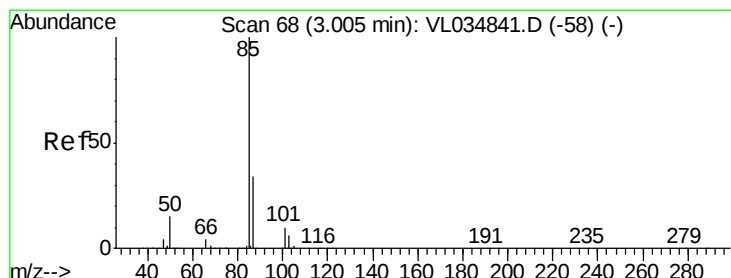
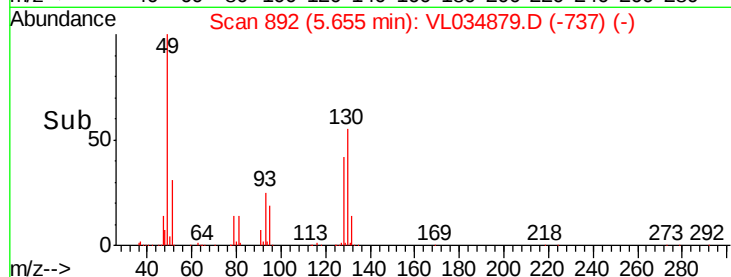
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.081 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL034879.D

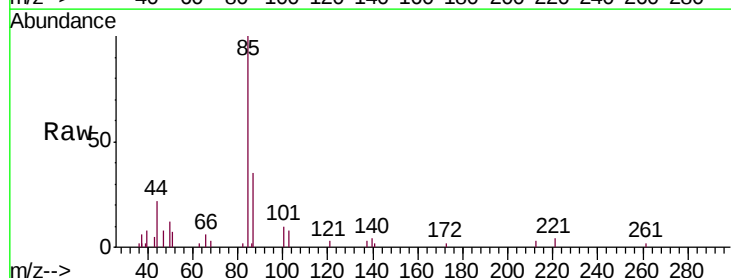
Acq: 10 Mar 2020 23:27

Tgt Ion: 85 Resp: 9233

Ion Ratio Lower Upper

85 100

87 34.7 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

10000

8000

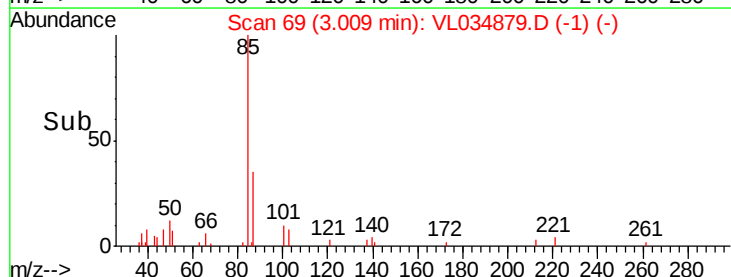
6000

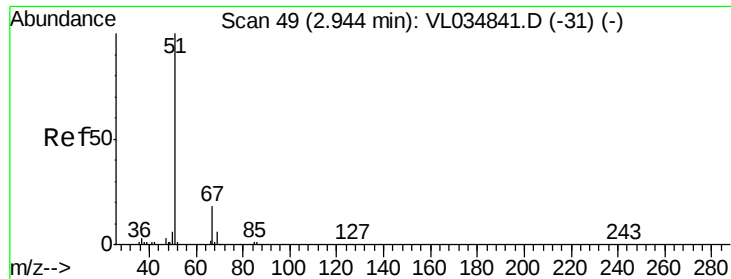
4000

2000

0

Time-->





#3

Chlorodifluoromethane

Concen: 0.059 ppbv

RT: 2.95 min Scan# 51

Delta R.T. 0.01 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Instrument :

MSVOA_L

ClientSampleId :

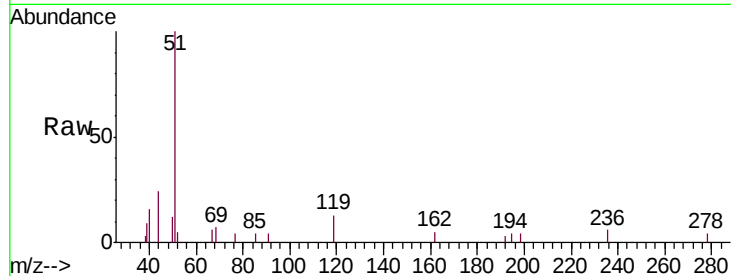
MDL-AIR-01-QT1-2020

Tgt Ion: 51 Resp: 5514

Ion Ratio Lower Upper

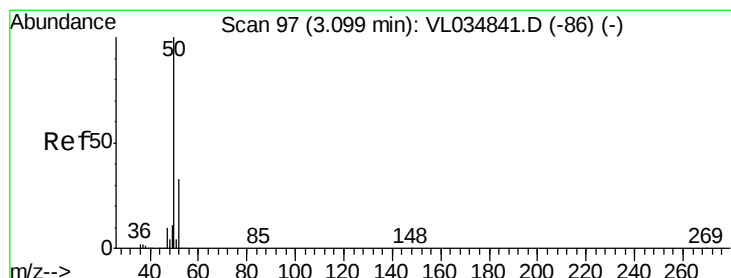
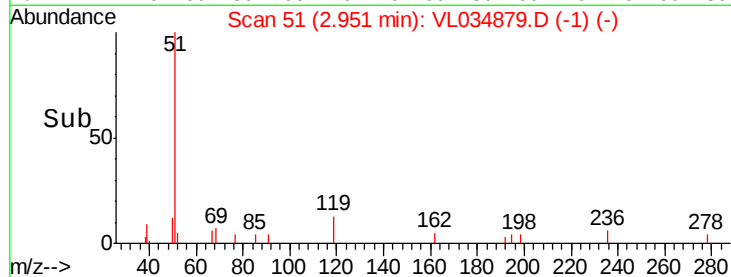
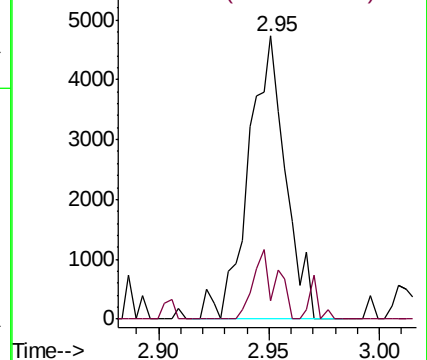
51 100

67 18.5 14.3 21.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.013 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL034879.D

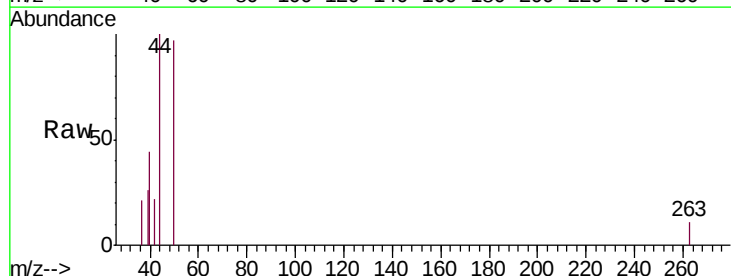
Acq: 10 Mar 2020 23:27

Tgt Ion: 50 Resp: 672

Ion Ratio Lower Upper

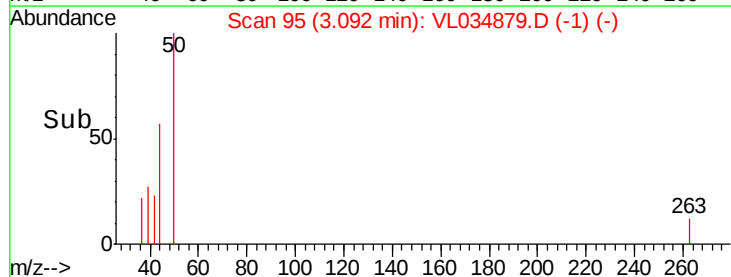
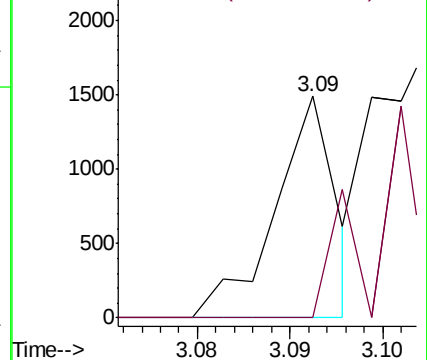
50 100

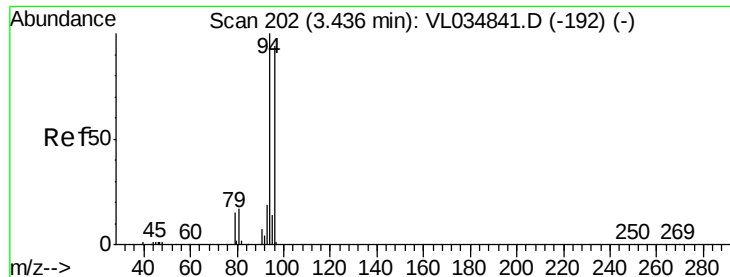
52 0.0 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#6

Bromomethane

Concen: 0.029 ppbv

RT: 3.44 min Scan# 203

Delta R.T. 0.00 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Instrument :

MSVOA_L

ClientSampleId :

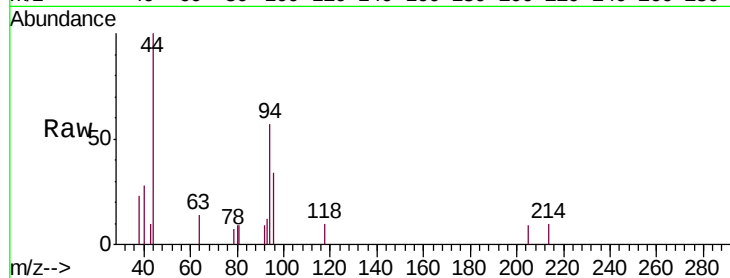
MDL-AIR-01-QT1-2020

Tgt Ion: 94 Resp: 852

Ion Ratio Lower Upper

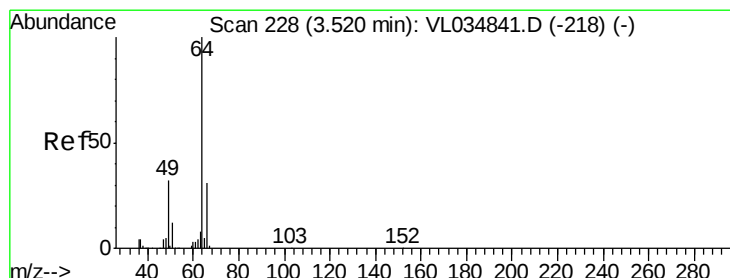
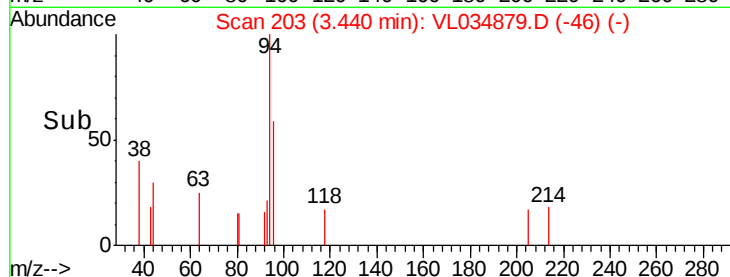
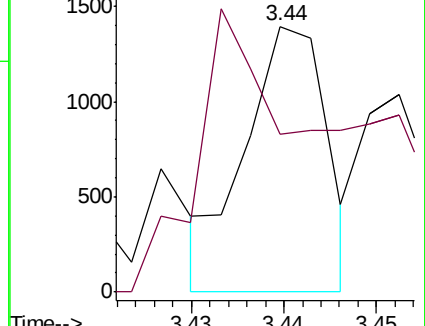
94 100

96 46.6 75.5 113.3#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#7

Chloroethane

Concen: 0.016 ppbv

RT: 3.52 min Scan# 228

Delta R.T. 0.00 min

Lab File: VL034879.D

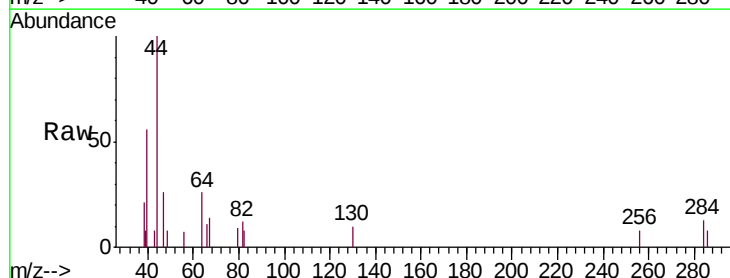
Acq: 10 Mar 2020 23:27

Tgt Ion: 64 Resp: 293

Ion Ratio Lower Upper

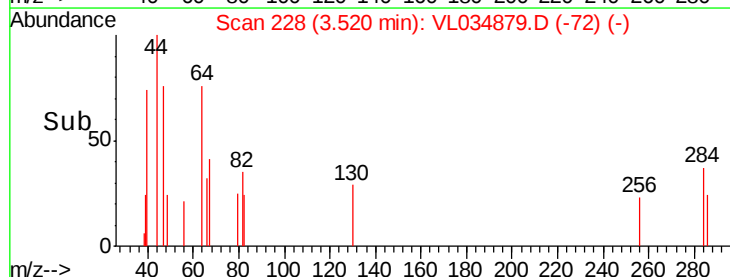
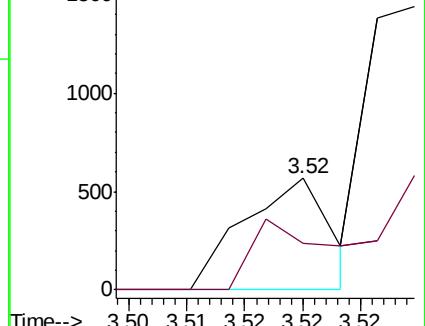
64 100

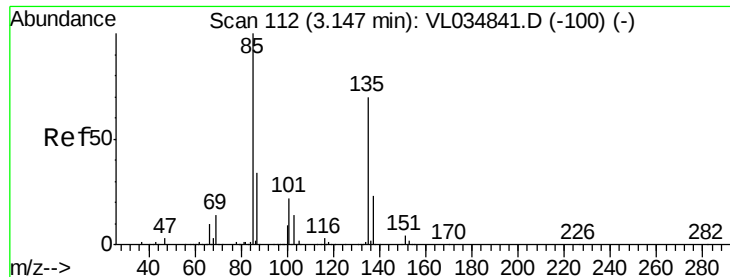
66 41.7 24.8 37.2#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.055 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Instrument :

MSVOA_L

ClientSampleId :

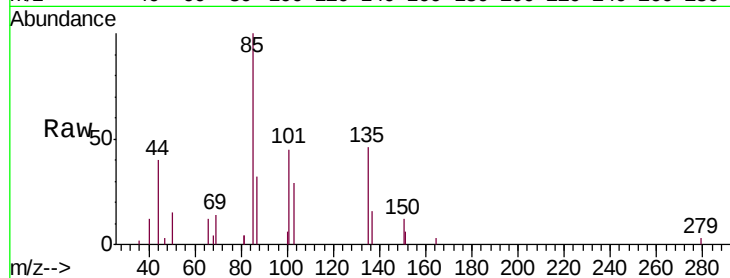
MDL-AIR-01-QT1-2020

Tgt Ion: 85 Resp: 6545

Ion Ratio Lower Upper

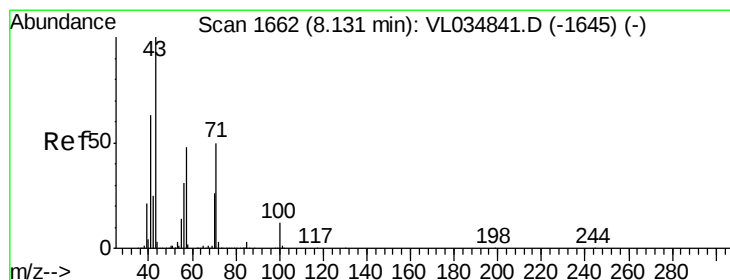
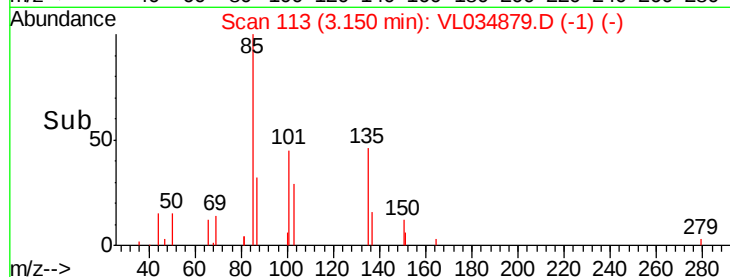
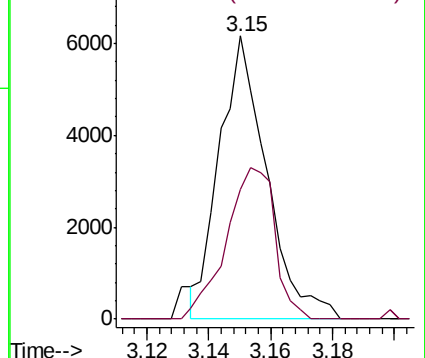
85 100

135 55.0 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#10

Heptane

Concen: 0.016 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL034879.D

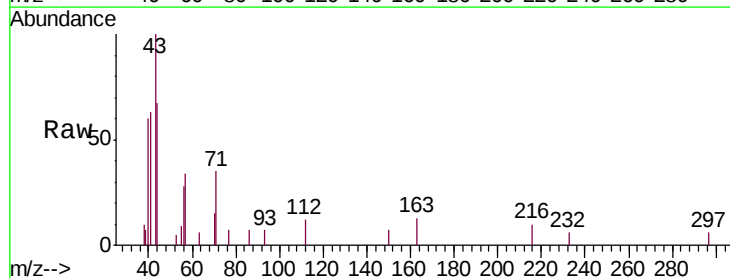
Acq: 10 Mar 2020 23:27

Tgt Ion: 43 Resp: 1697

Ion Ratio Lower Upper

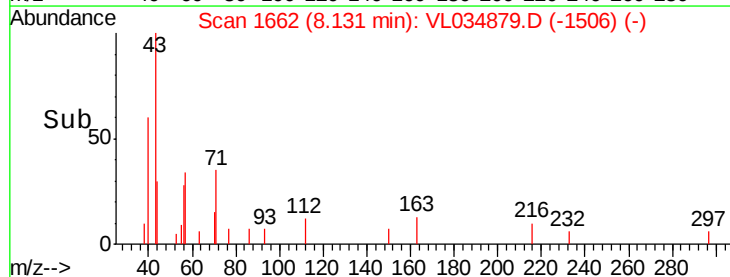
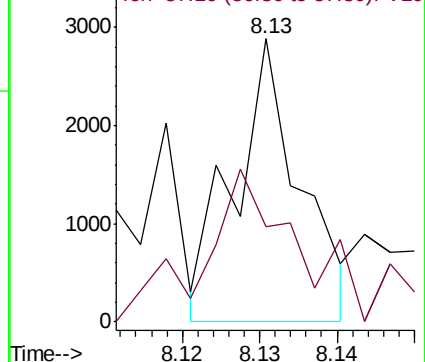
43 100

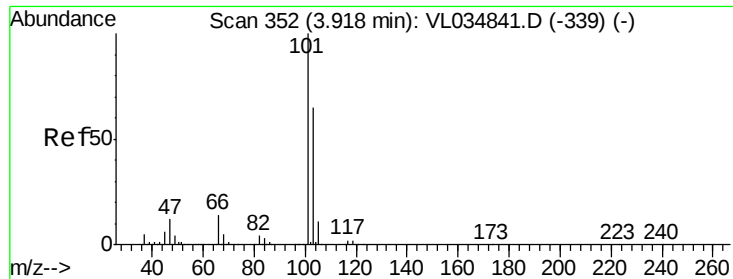
57 93.8 39.7 59.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

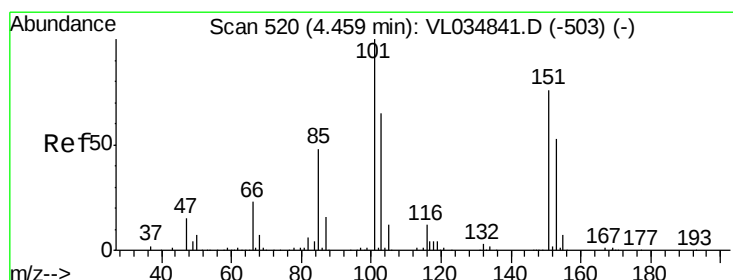
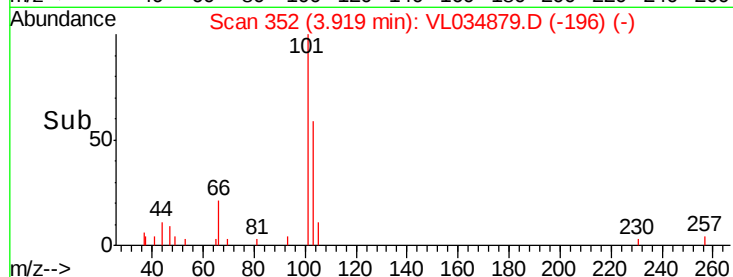
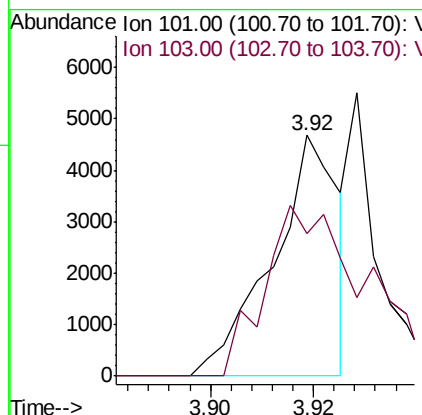
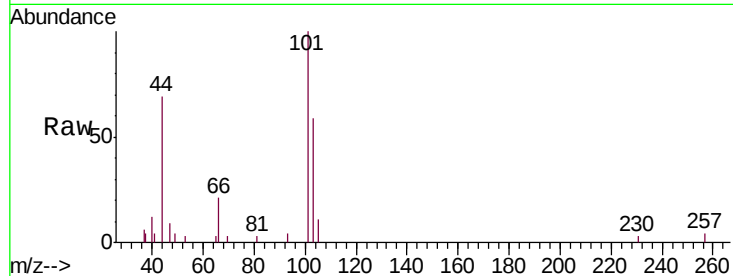




#11
 Trichlorofluoromethane
 Concen: 0.034 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VL034879.D
 Acq: 10 Mar 2020 23:27

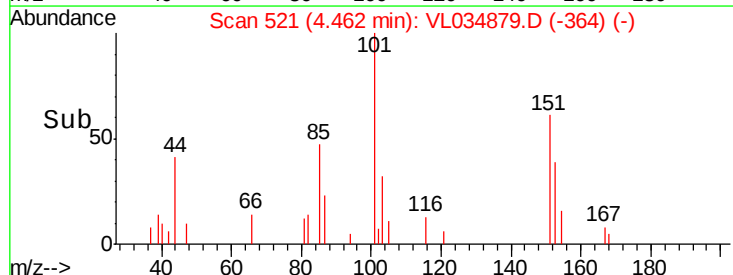
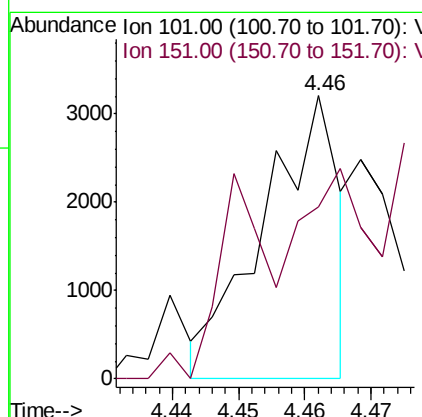
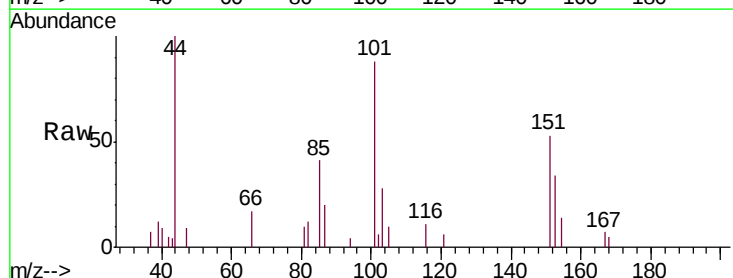
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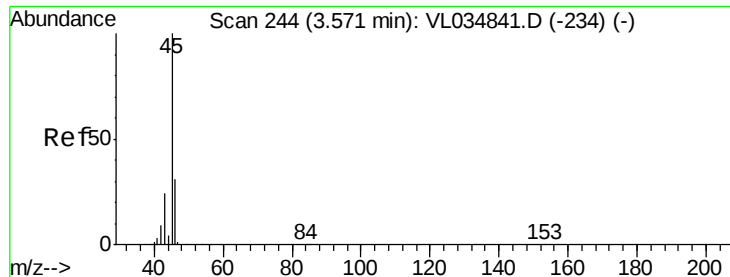
Tgt Ion:101 Resp: 4140
 Ion Ratio Lower Upper
 101 100
 103 59.1 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.030 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VL034879.D
 Acq: 10 Mar 2020 23:27

Tgt Ion:101 Resp: 2535
 Ion Ratio Lower Upper
 101 100
 151 0.0 60.8 91.2#





#13

Ethanol

Concen: 0.062 ppbv

RT: 3.59 min Scan# 251

Delta R.T. 0.02 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Instrument :

MSVOA_L

ClientSampleId :

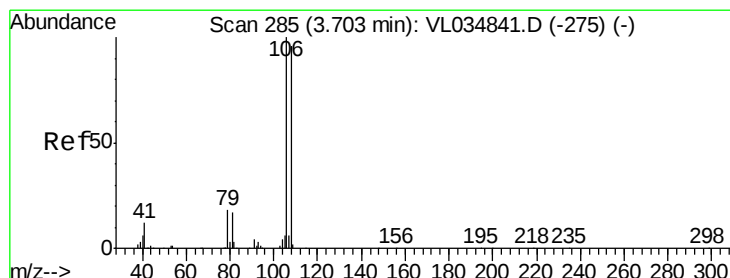
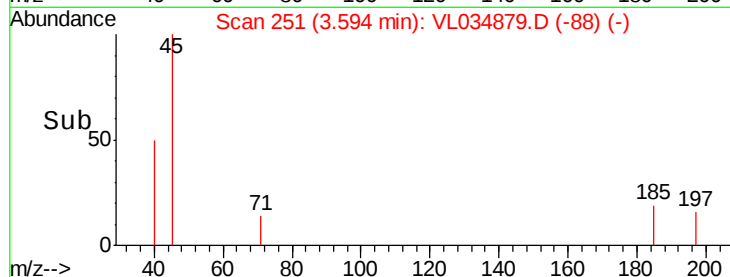
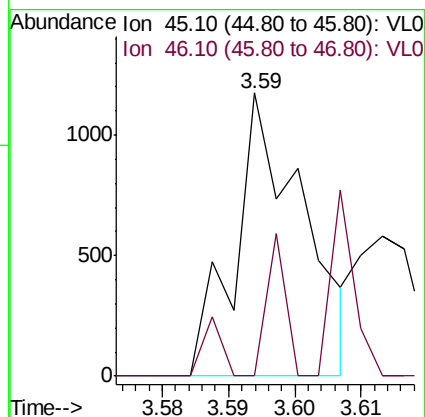
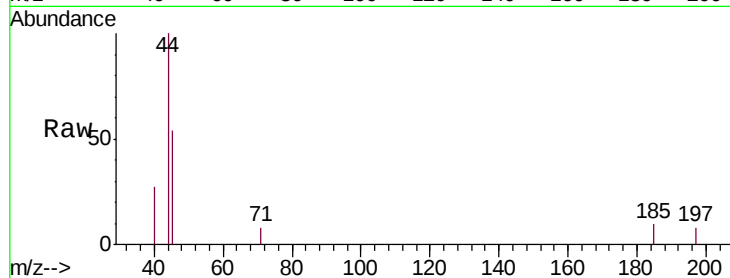
MDL-AIR-01-QT1-2020

Tgt Ion: 45 Resp: 844

Ion Ratio Lower Upper

45 100

46 9.2 16.0 64.0#



#14

Bromoethene

Concen: 0.031 ppbv

RT: 3.71 min Scan# 286

Delta R.T. 0.00 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

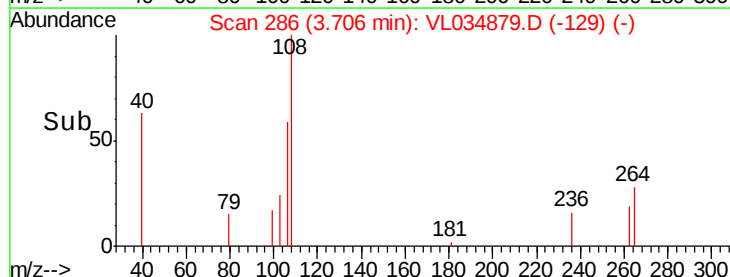
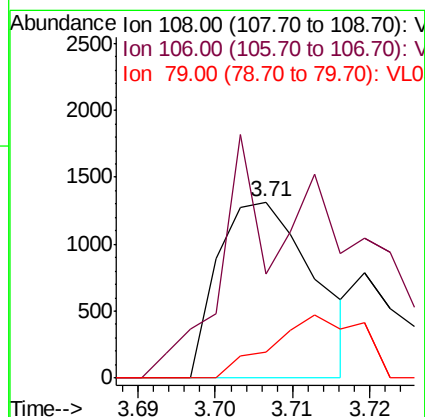
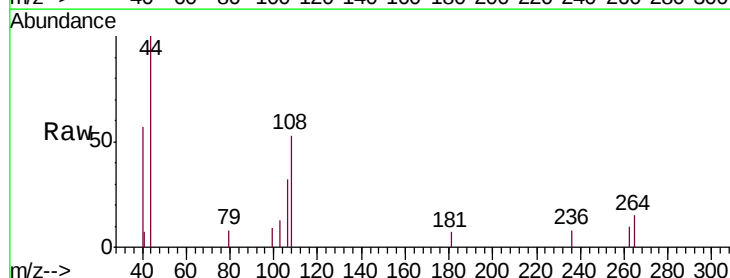
Tgt Ion: 108 Resp: 1137

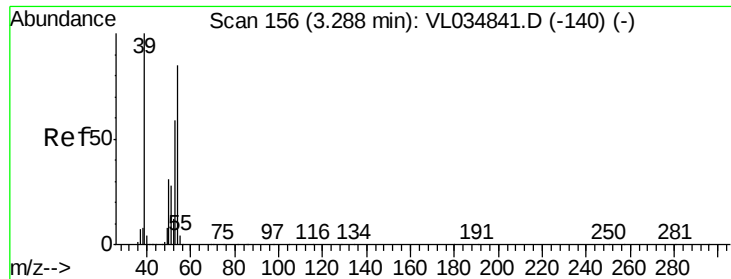
Ion Ratio Lower Upper

108 100

106 174.6 85.1 127.7#

79 0.0 14.7 22.1#

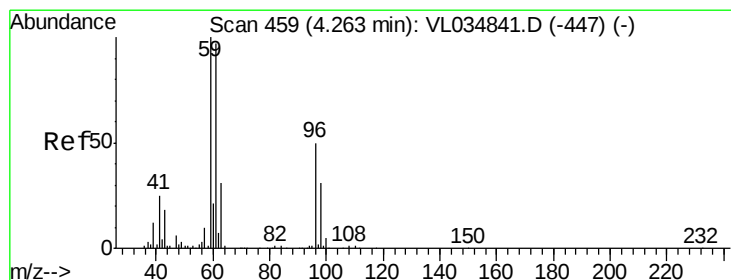
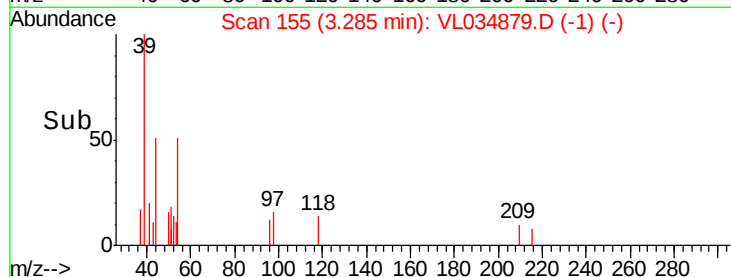
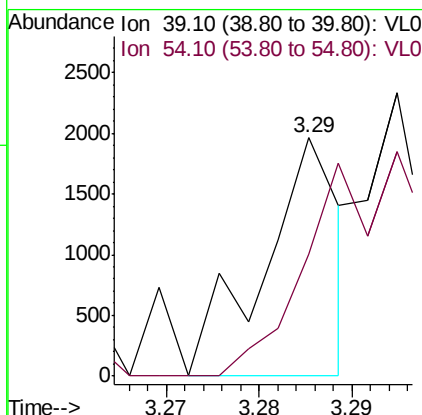
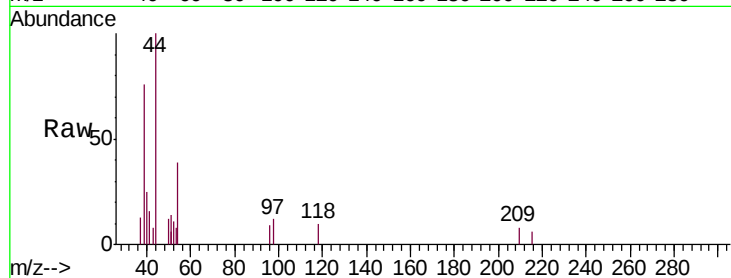




#16
 1,3-Butadiene
 Concen: 0.023 ppbv
 RT: 3.29 min Scan# 155
 Delta R.T. -0.00 min
 Lab File: VL034879.D
 Acq: 10 Mar 2020 23:27

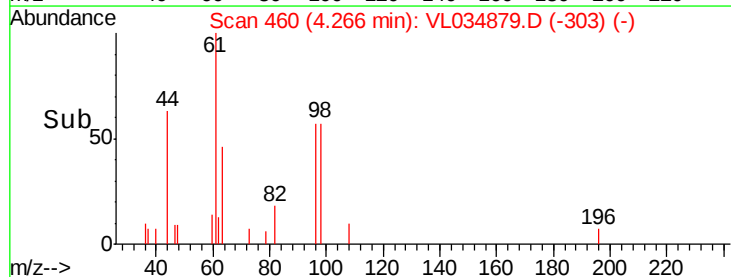
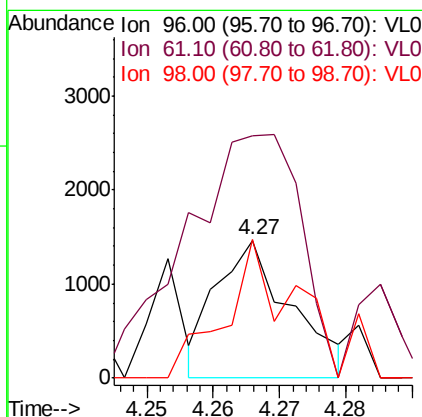
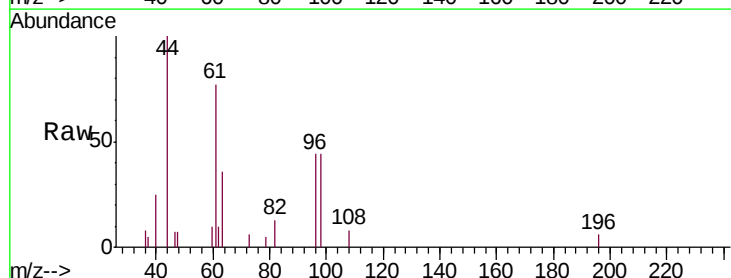
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

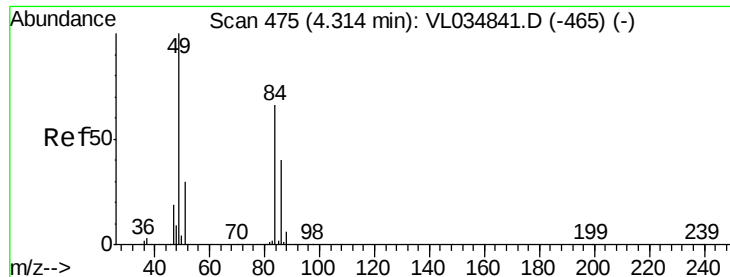
Tgt Ion: 39 Resp: 1117
 Ion Ratio Lower Upper
 39 100
 54 0.0 65.0 97.6#



#18
 1,1-Dichloroethene
 Concen: 0.031 ppbv
 RT: 4.27 min Scan# 460
 Delta R.T. 0.00 min
 Lab File: VL034879.D
 Acq: 10 Mar 2020 23:27

Tgt Ion: 96 Resp: 1149
 Ion Ratio Lower Upper
 96 100
 61 210.1 157.3 235.9
 98 131.1 50.2 75.4#

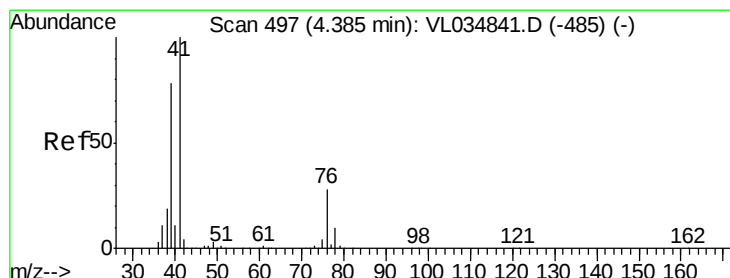
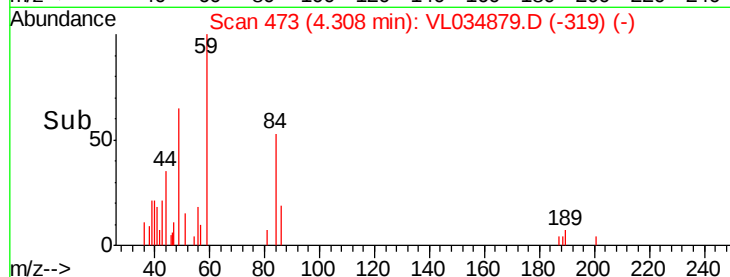
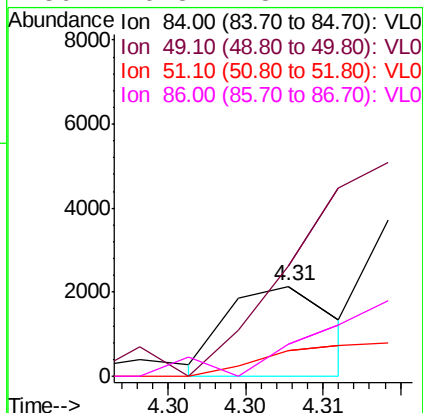
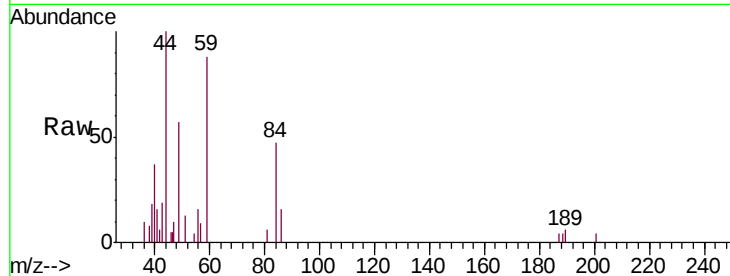




#20
Methylene Chloride
Concen: 0.030 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.01 min
Lab File: VL034879.D
Acq: 10 Mar 2020 23:27

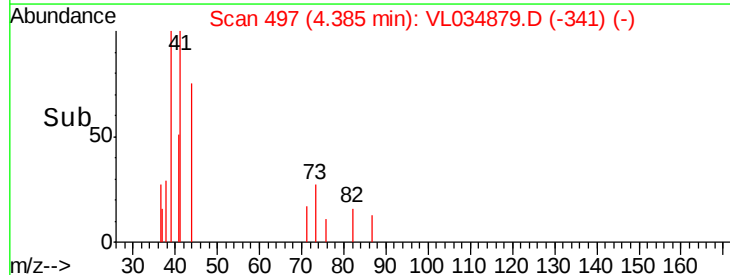
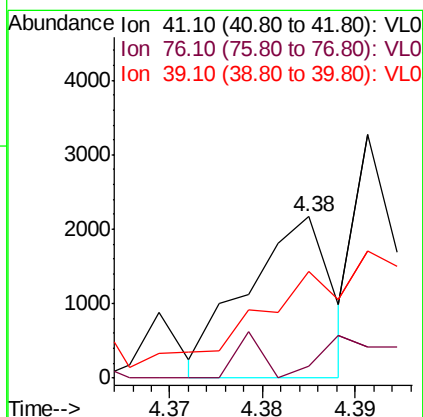
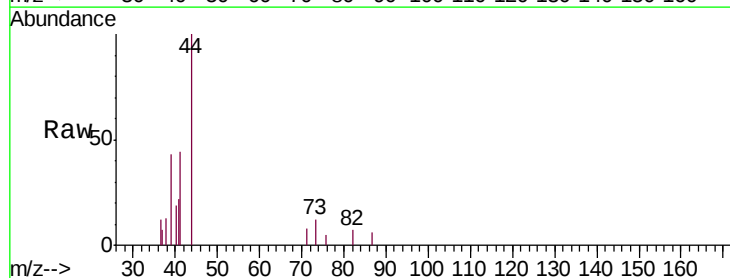
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

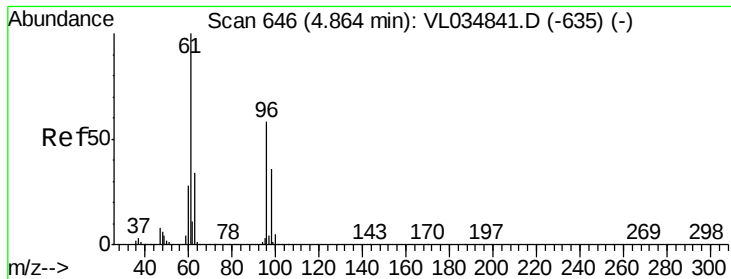
Tgt Ion: 84 Resp: 1029
Ion Ratio Lower Upper
84 100
49 139.4 121.5 182.3
51 32.7 36.6 55.0#
86 16.3 48.2 72.2#



#21
Allyl Chloride
Concen: 0.020 ppbv
RT: 4.38 min Scan# 497
Delta R.T. 0.00 min
Lab File: VL034879.D
Acq: 10 Mar 2020 23:27

Tgt Ion: 41 Resp: 1368
Ion Ratio Lower Upper
41 100
76 42.5 22.2 33.2#
39 0.0 62.6 93.8#





#22

trans-1,2-Dichloroethene

Concen: 0.045 ppbv

RT: 4.87 min Scan# 647

Delta R.T. 0.00 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

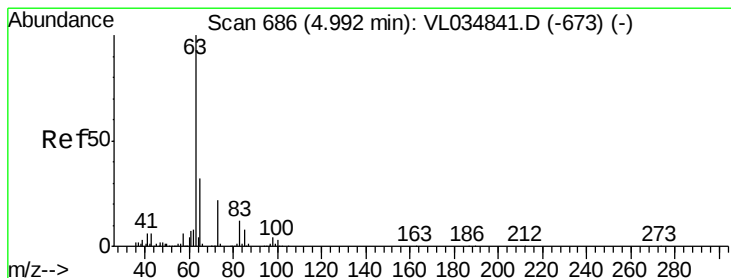
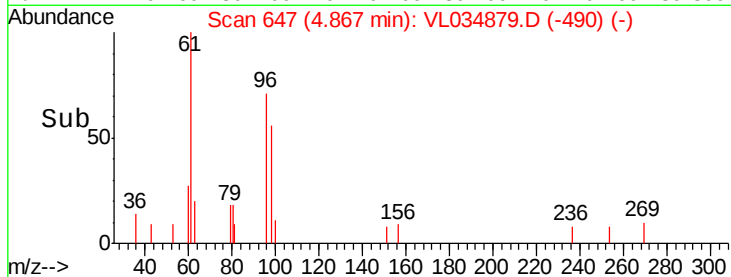
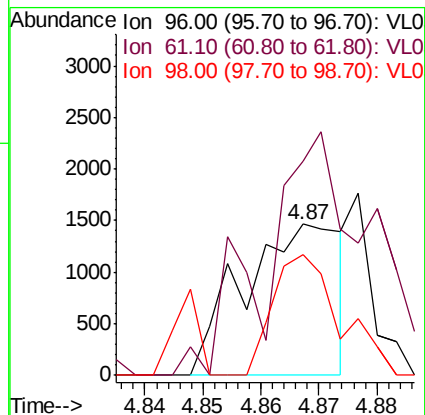
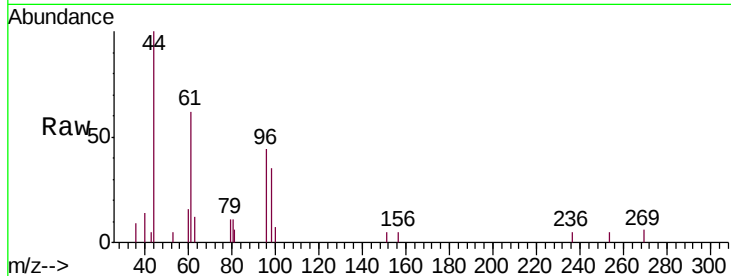
Tgt Ion: 96 Resp: 1724

Ion Ratio Lower Upper

96 100

61 122.4 139.0 208.6#

98 55.6 50.3 75.5



#24

1,1-Dichloroethane

Concen: 0.031 ppbv

RT: 4.99 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

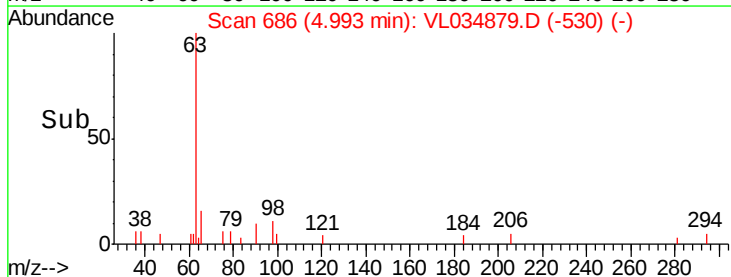
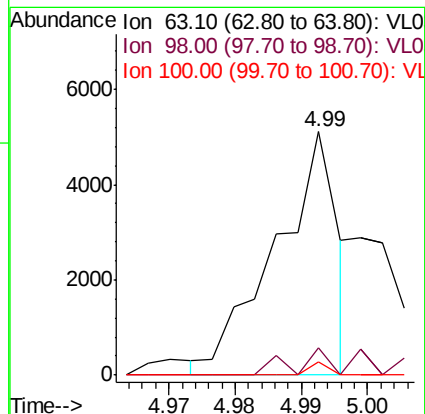
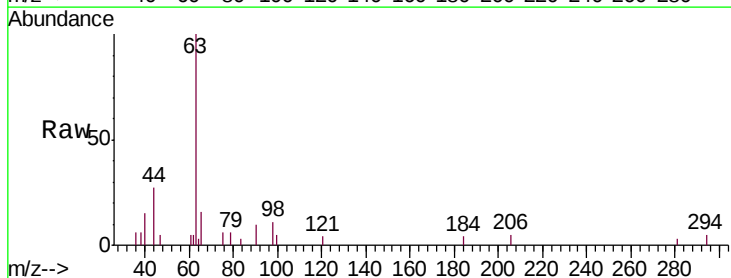
Tgt Ion: 63 Resp: 3326

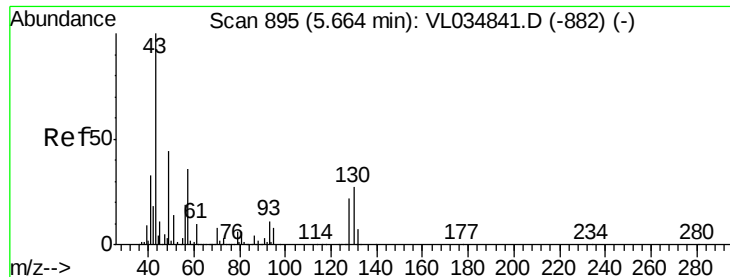
Ion Ratio Lower Upper

63 100

98 11.9 2.0 5.8#

100 5.6 1.4 4.0#





#25

Ethyl Acetate

Concen: 0.015 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tgt Ion: 43 Resp: 2826

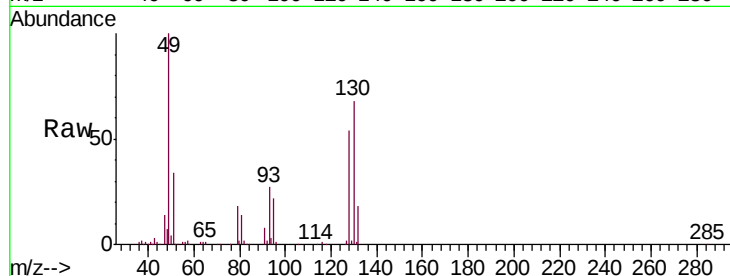
Ion Ratio Lower Upper

43 100

45 0.0 8.2 12.2#

61 0.0 7.8 11.6#

70 0.0 5.8 8.8#

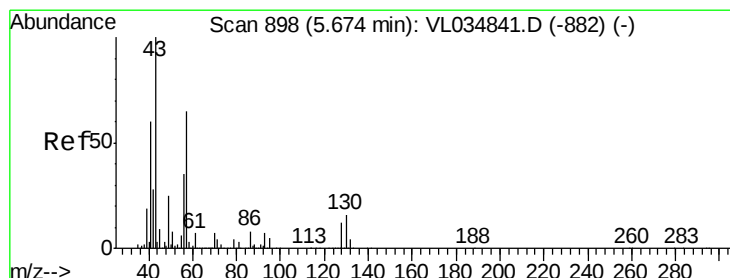
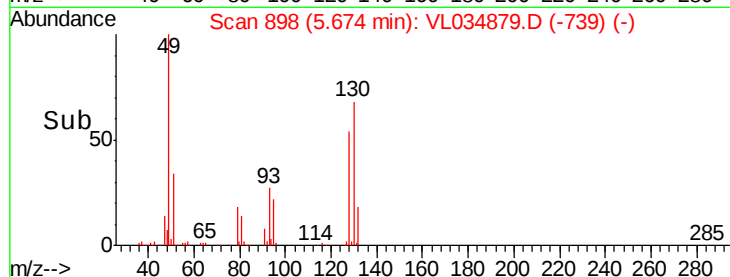
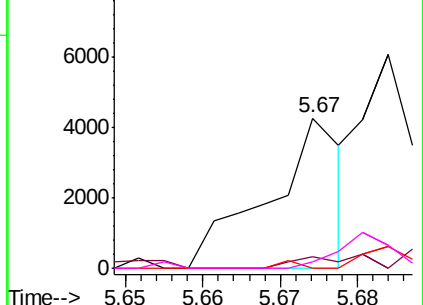


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.030 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Tgt Ion: 57 Resp: 2475

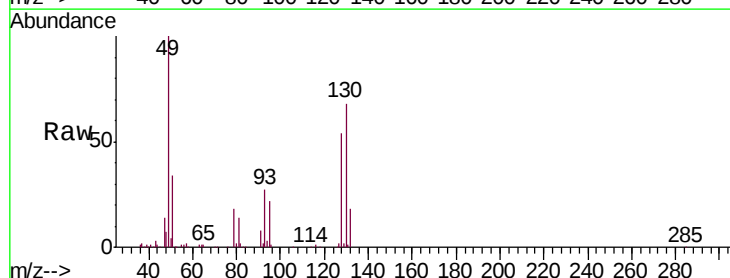
Ion Ratio Lower Upper

57 100

41 0.0 72.6 109.0#

43 0.0 183.8 275.6#

56 90.6 41.9 62.9#

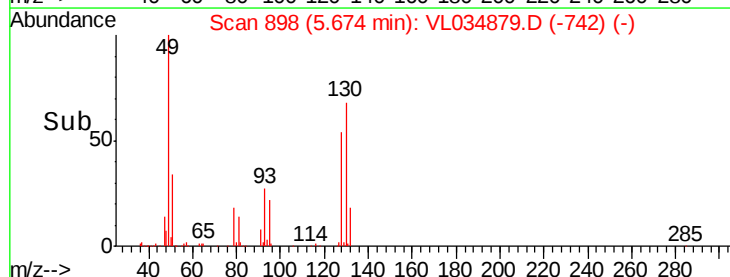
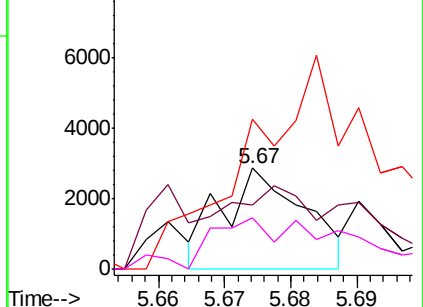


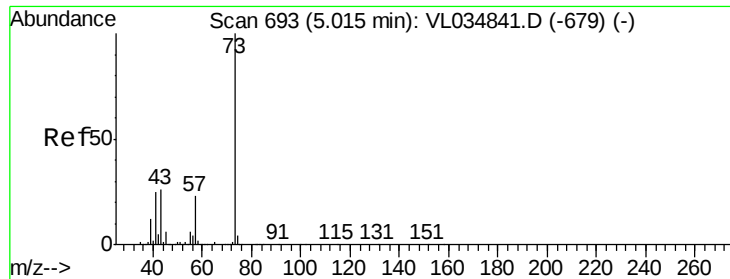
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



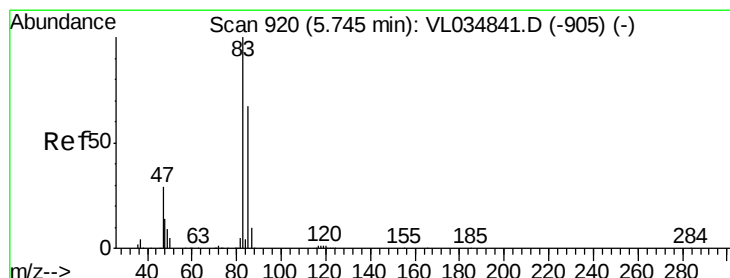
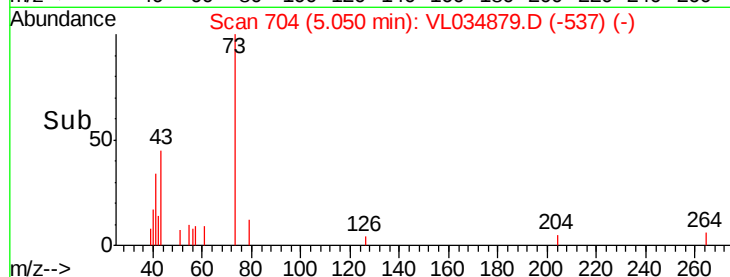
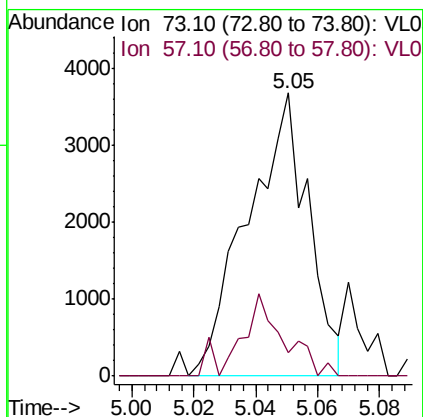
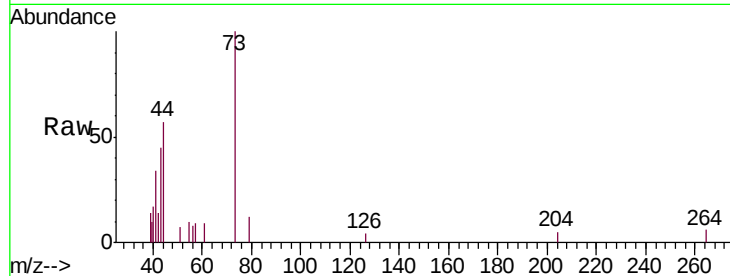


#28

Methyl tert-Butyl Ether
 Concen: 0.036 ppbv
 RT: 5.05 min Scan# 704
 Delta R.T. 0.04 min
 Lab File: VL034879.D
 Acq: 10 Mar 2020 23:27

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

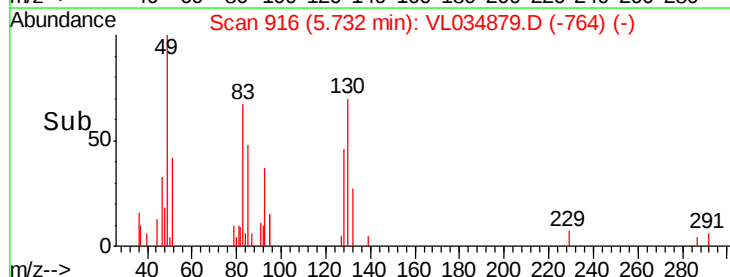
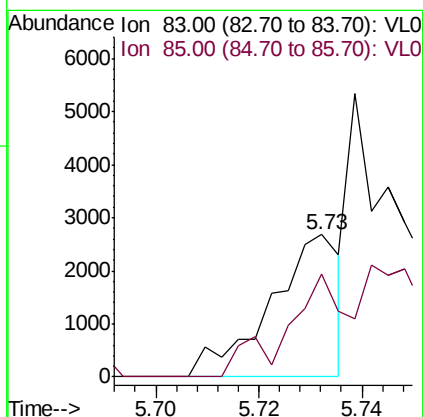
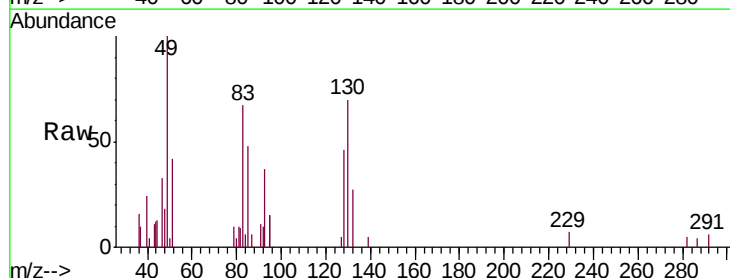
Tgt Ion: 73 Resp: 5011
 Ion Ratio Lower Upper
 73 100
 57 20.9 18.3 27.5

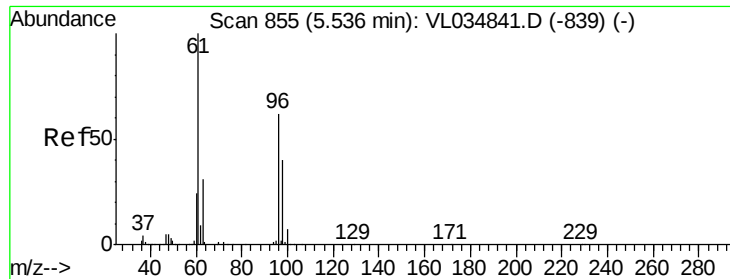


#29

Chloroform
 Concen: 0.020 ppbv
 RT: 5.73 min Scan# 916
 Delta R.T. -0.01 min
 Lab File: VL034879.D
 Acq: 10 Mar 2020 23:27

Tgt Ion: 83 Resp: 2512
 Ion Ratio Lower Upper
 83 100
 85 72.7 53.8 80.6



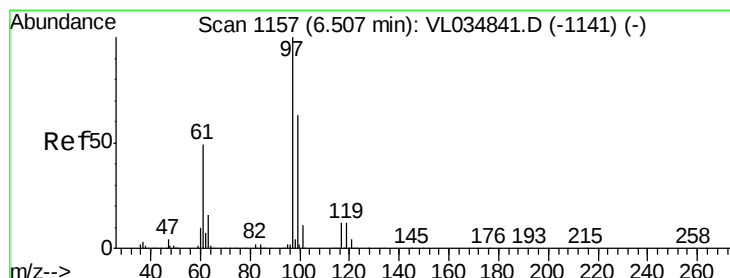
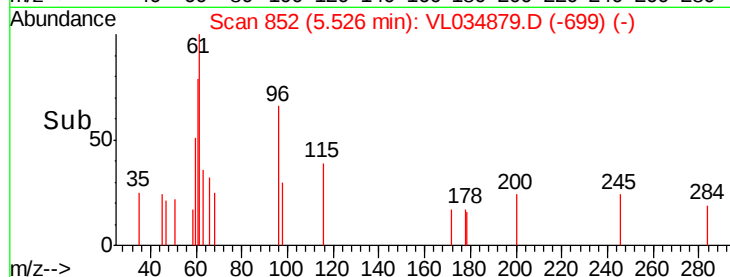
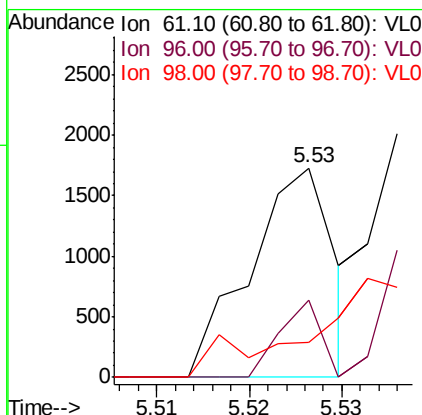
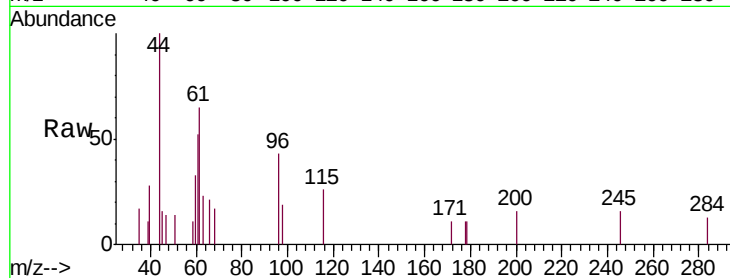


#31

cis-1,2-Dichloroethene
Concen: 0.013 ppbv
RT: 5.53 min Scan# 852
Delta R.T. -0.01 min
Lab File: VL034879.D
Acq: 10 Mar 2020 23:27

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

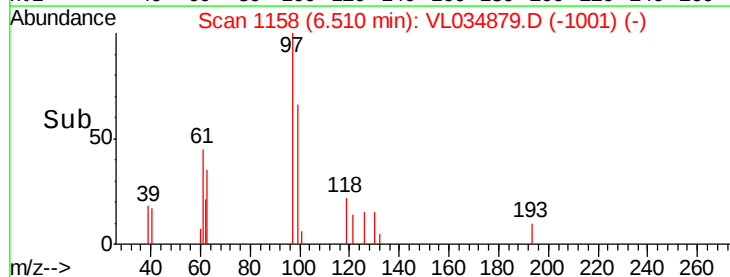
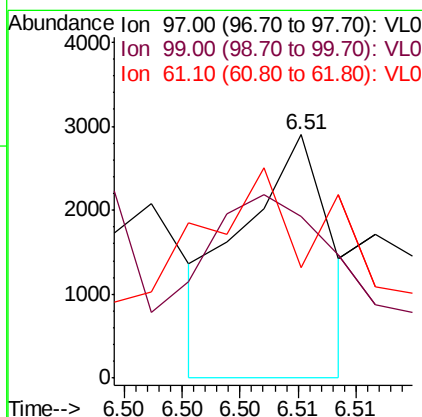
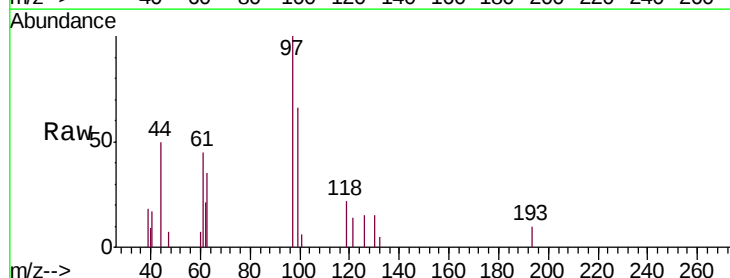
Tgt Ion: 61 Resp: 1079
Ion Ratio Lower Upper
61 100
96 36.7 49.8 74.8#
98 16.7 32.2 48.4#

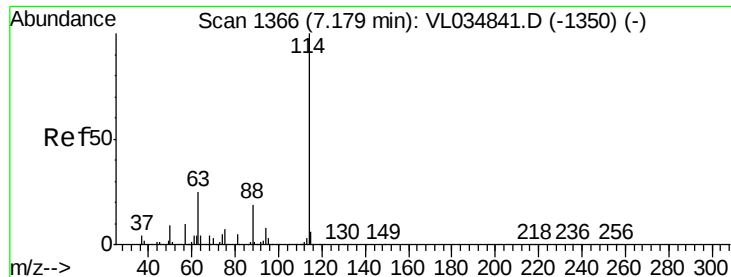


#32

1,1,1-Trichloroethane
Concen: 0.012 ppbv
RT: 6.51 min Scan# 1158
Delta R.T. 0.00 min
Lab File: VL034879.D
Acq: 10 Mar 2020 23:27

Tgt Ion: 97 Resp: 1539
Ion Ratio Lower Upper
97 100
99 0.0 51.1 76.7#
61 217.4 39.7 59.5#

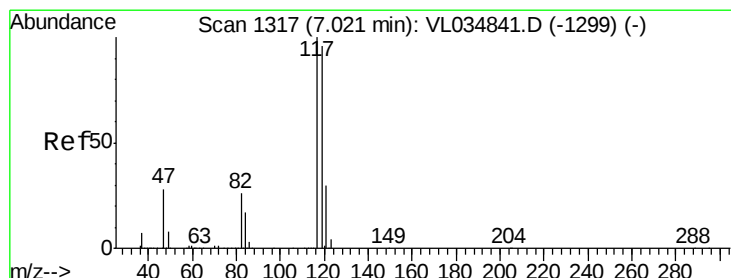
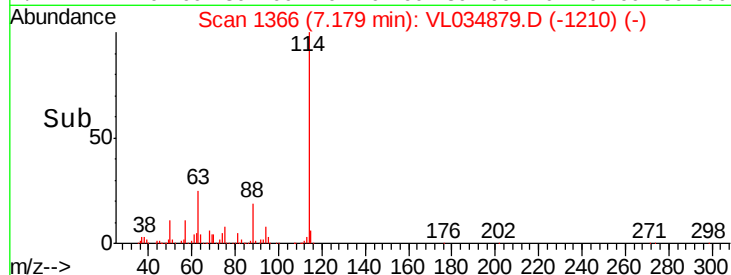
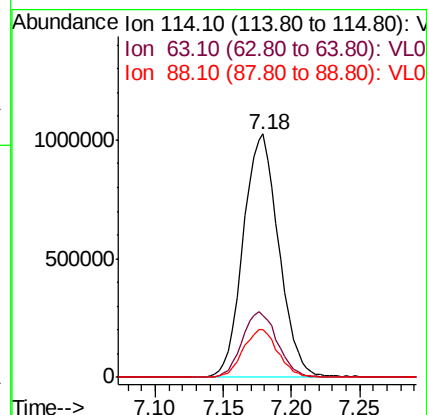
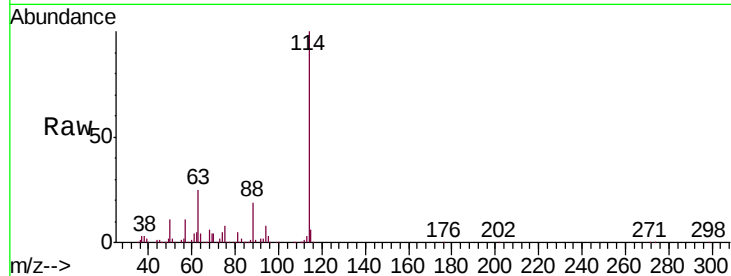




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.00 min
 Lab File: VL034879.D
 Acq: 10 Mar 2020 23:27

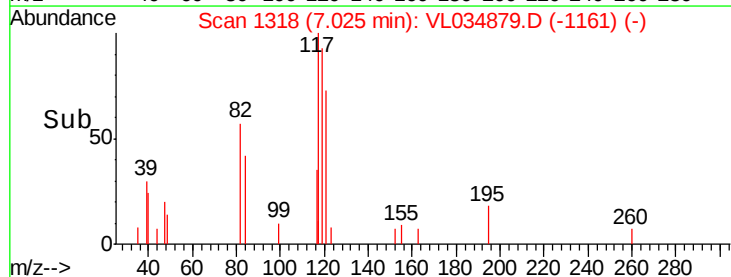
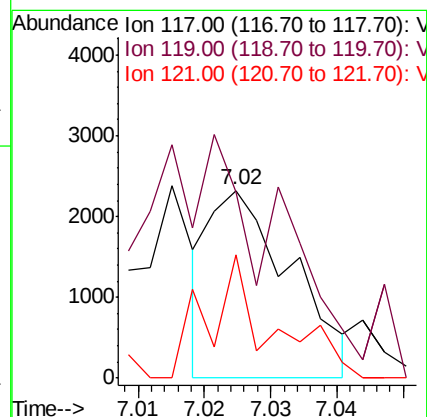
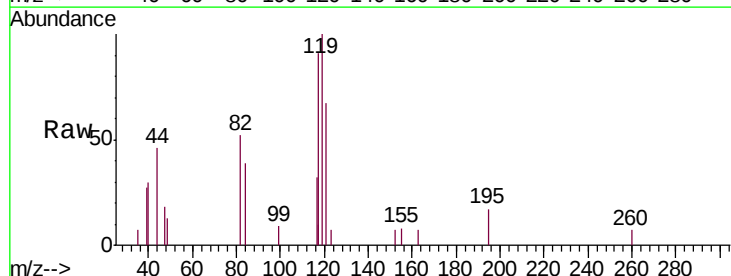
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

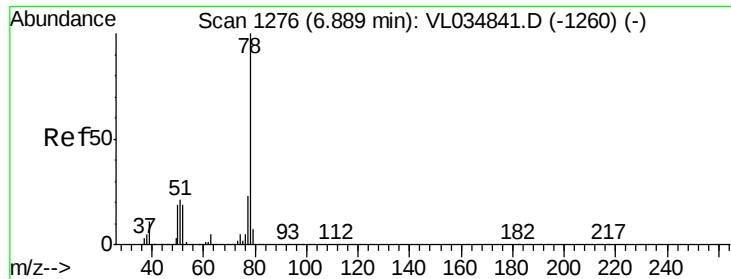
Tgt Ion:114 Resp: 1855803
 Ion Ratio Lower Upper
 114 100
 63 26.9 20.6 31.0
 88 19.4 15.0 22.6



#35
 Carbon Tetrachloride
 Concen: 0.017 ppbv
 RT: 7.02 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VL034879.D
 Acq: 10 Mar 2020 23:27

Tgt Ion:117 Resp: 2001
 Ion Ratio Lower Upper
 117 100
 119 94.5 77.0 115.4
 121 75.3 24.0 36.0#





#36

Benzene

Concen: 0.021 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

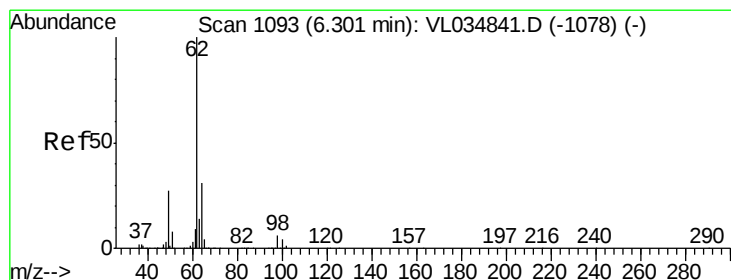
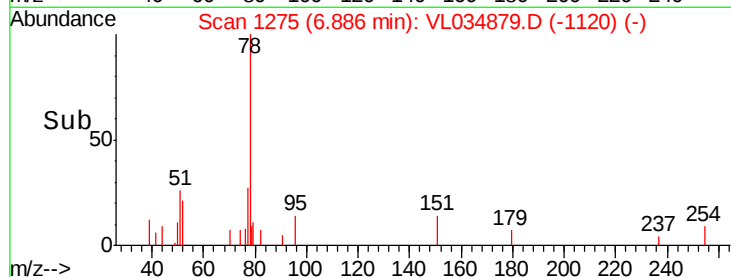
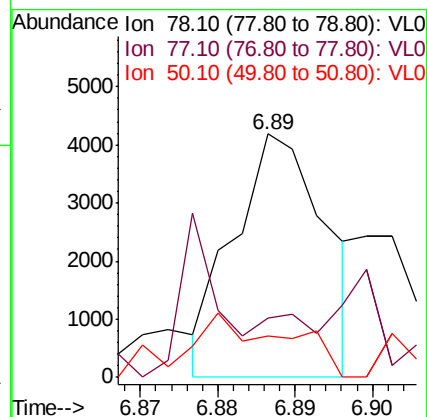
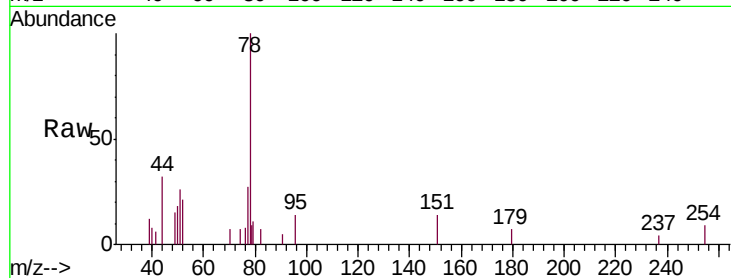
Tgt Ion: 78 Resp: 3455

Ion Ratio Lower Upper

78 100

77 0.0 18.2 27.2#

50 20.3 15.2 22.8



#37

1,2-Dichloroethane

Concen: 0.035 ppbv

RT: 6.30 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VL034879.D

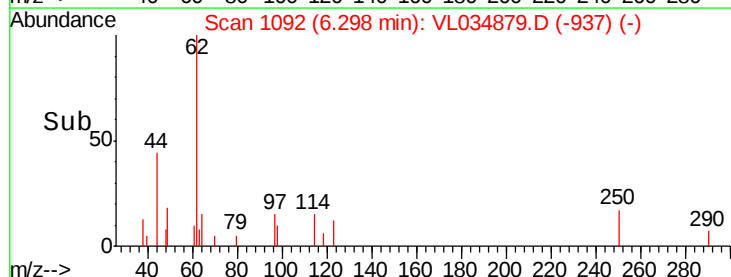
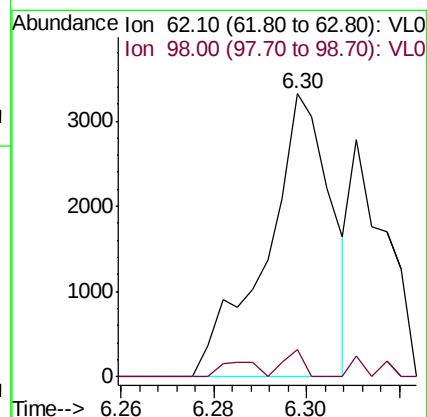
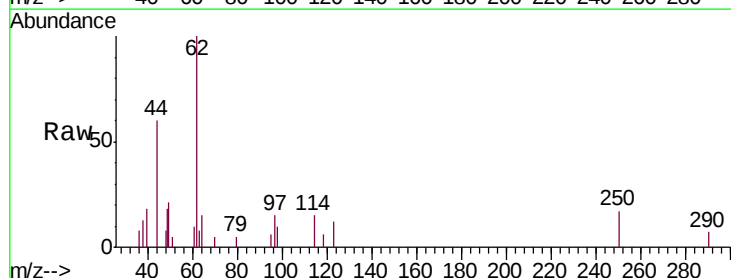
Acq: 10 Mar 2020 23:27

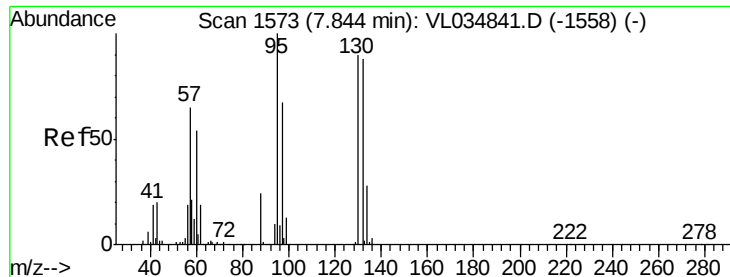
Tgt Ion: 62 Resp: 3239

Ion Ratio Lower Upper

62 100

98 3.0 5.2 7.8#





#38

Trichloroethene

Concen: 0.020 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tgt Ion:130 Resp: 1260

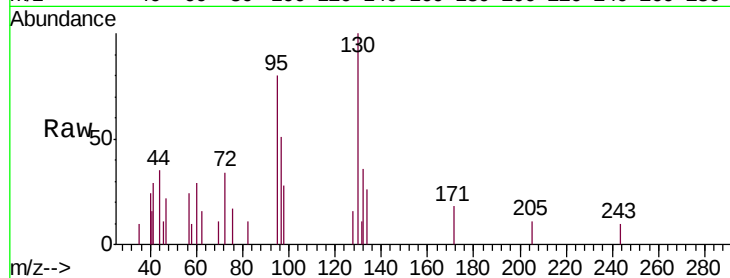
Ion Ratio Lower Upper

130 100

95 36.1 88.5 132.7#

132 17.1 78.0 117.0#

97 41.7 59.3 88.9#

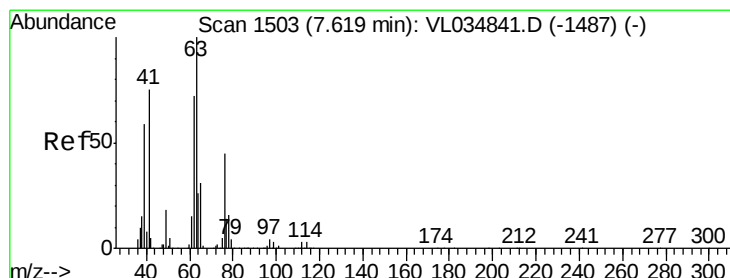
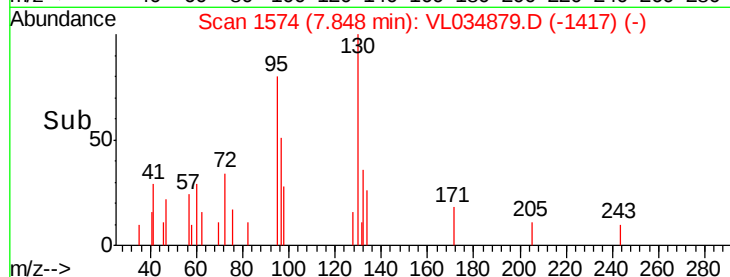
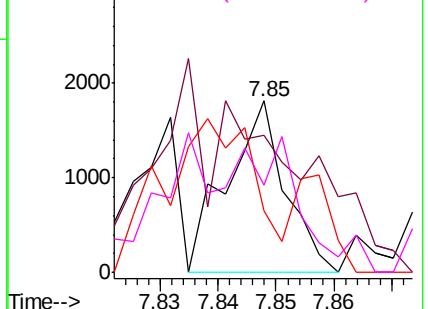


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.520 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

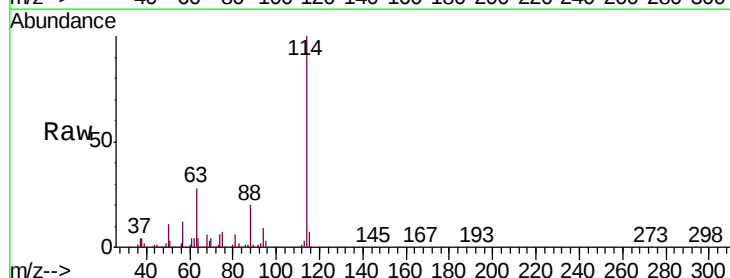
Tgt Ion: 63 Resp: 492856

Ion Ratio Lower Upper

63 100

41 0.0 59.8 89.8#

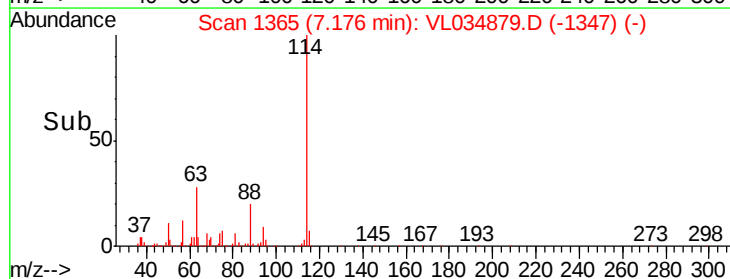
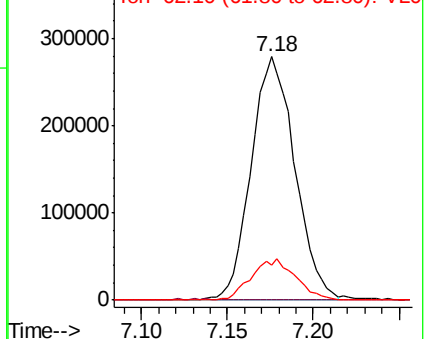
62 14.5 57.6 86.4#

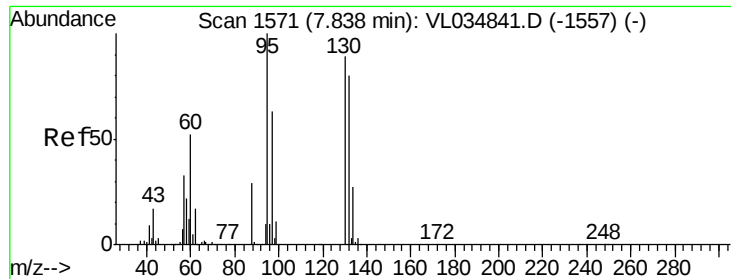


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

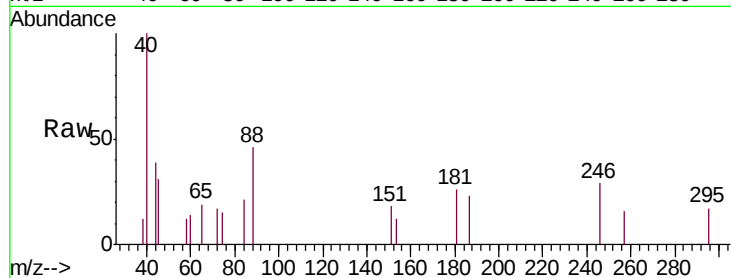




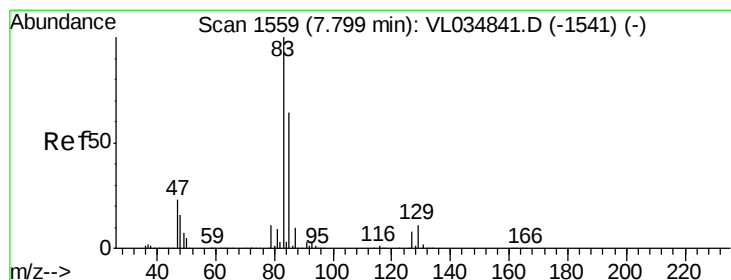
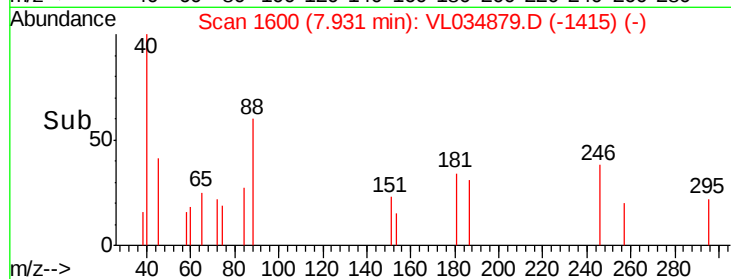
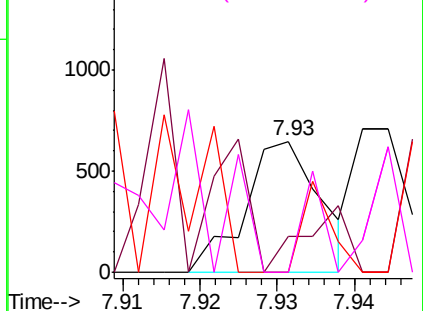
#40
1,4-Dioxane
Concen: 0.018 ppbv
RT: 7.93 min Scan# 1600
Delta R.T. 0.09 min
Lab File: VL034879.D
Acq: 10 Mar 2020 23:27

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

Tgt Ion: 88 Resp: 439
Ion Ratio Lower Upper
88 100
58 170.2 103.9 155.9#
43 173.1 0.0 0.0#
57 0.0 0.0 0.0

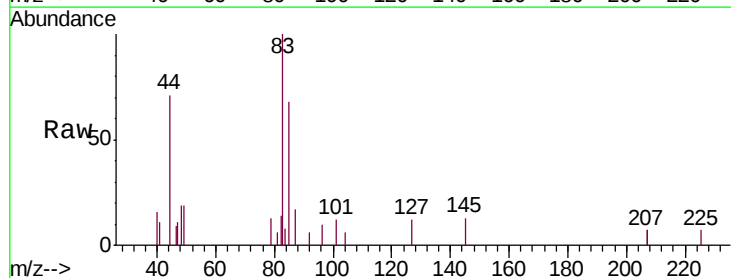


Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

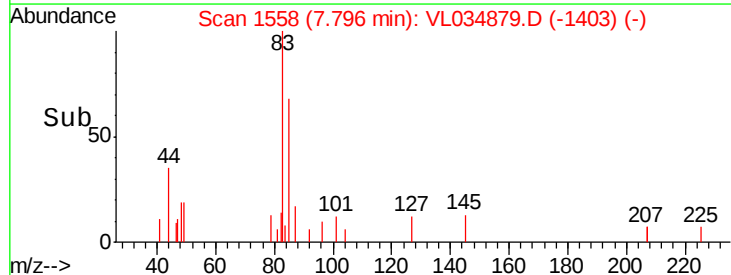
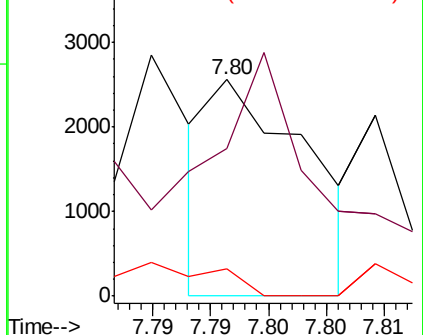


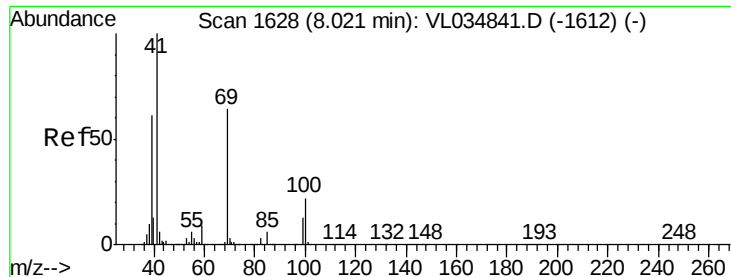
#42
Bromodichloromethane
Concen: 0.012 ppbv
RT: 7.80 min Scan# 1558
Delta R.T. -0.00 min
Lab File: VL034879.D
Acq: 10 Mar 2020 23:27

Tgt Ion: 83 Resp: 1489
Ion Ratio Lower Upper
83 100
85 58.9 51.4 77.2
127 25.5 6.2 9.4#



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

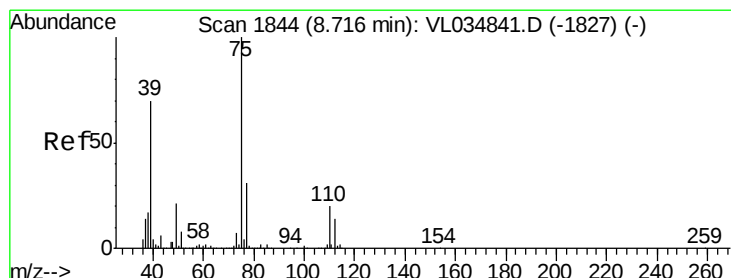
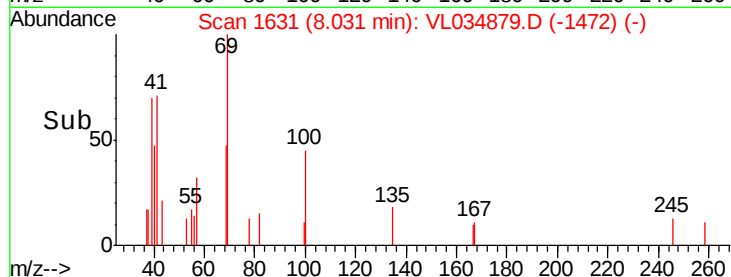
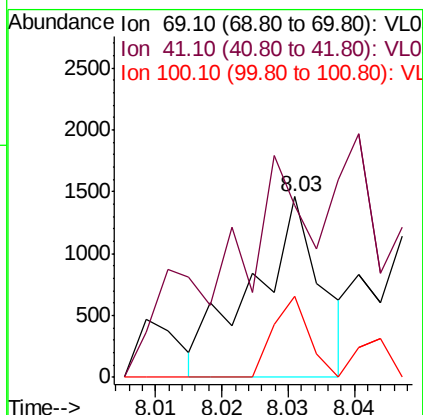
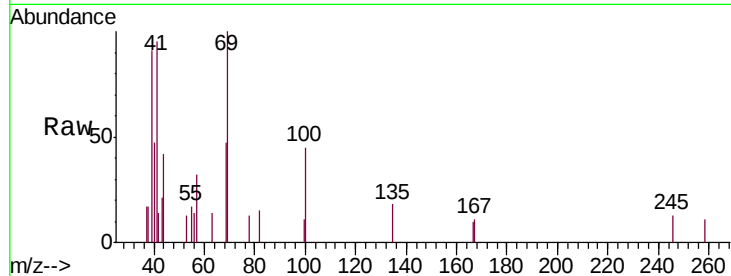




#43
Methyl Methacrylate
Concen: 0.015 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VL034879.D
Acq: 10 Mar 2020 23:27

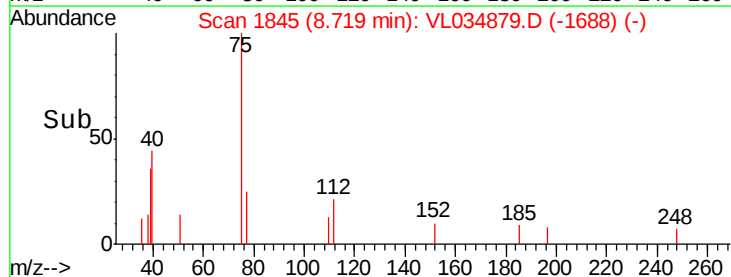
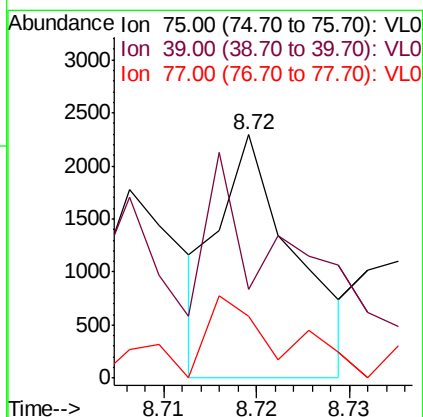
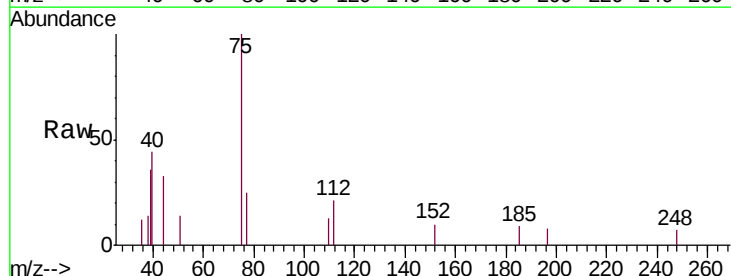
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

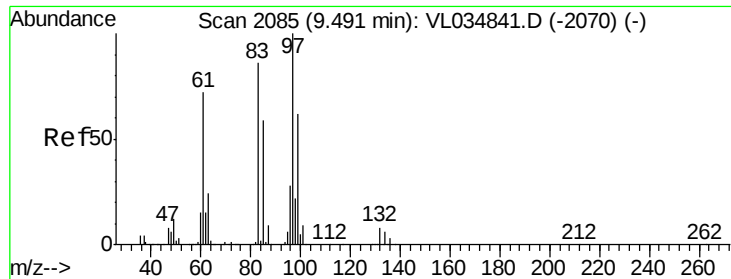
Tgt Ion: 69 Resp: 1040
Ion Ratio Lower Upper
69 100
41 0.0 123.2 184.8#
100 52.9 26.9 40.3#



#46
cis-1,3-Dichloropropene
Concen: 0.013 ppbv
RT: 8.72 min Scan# 1845
Delta R.T. 0.00 min
Lab File: VL034879.D
Acq: 10 Mar 2020 23:27

Tgt Ion: 75 Resp: 1310
Ion Ratio Lower Upper
75 100
39 16.0 55.7 83.5#
77 37.5 24.7 37.1#

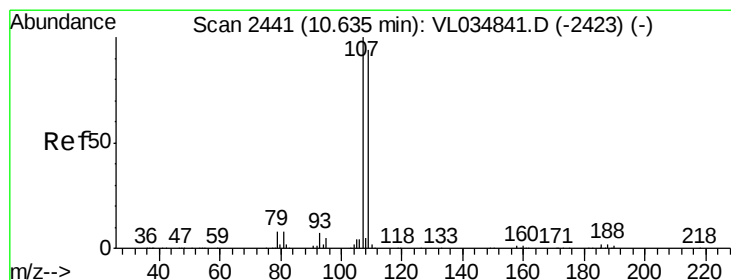
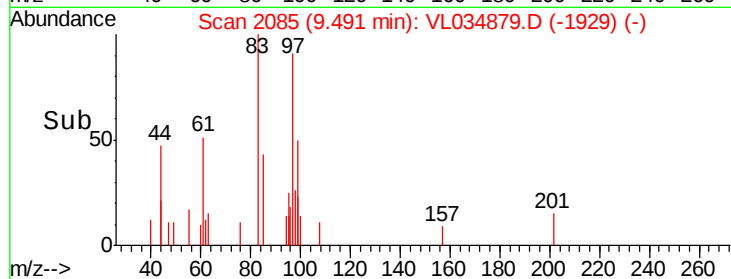
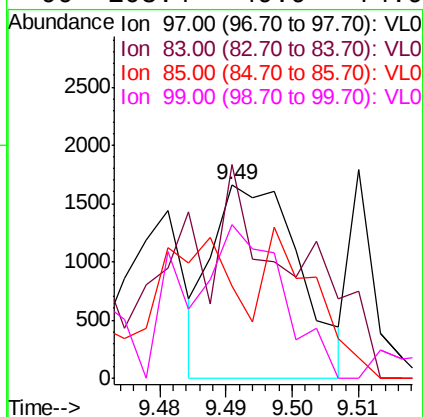
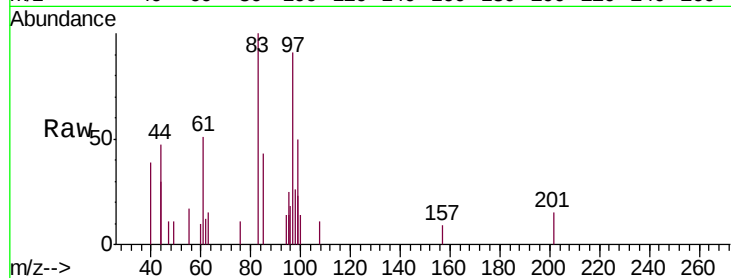




#47
 1,1,2-Trichloroethane
 Concen: 0.023 ppbv
 RT: 9.49 min Scan# 2085
 Delta R.T. 0.00 min
 Lab File: VL034879.D
 Acq: 10 Mar 2020 23:27

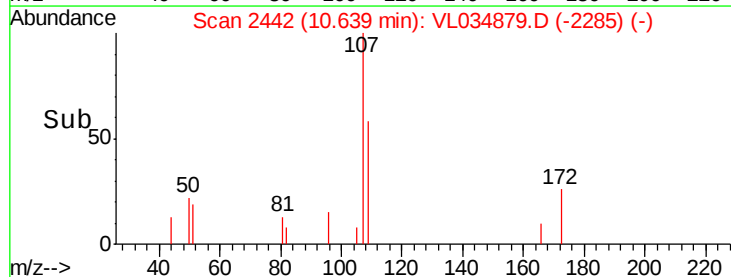
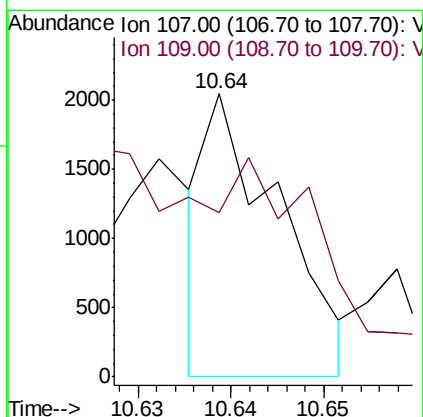
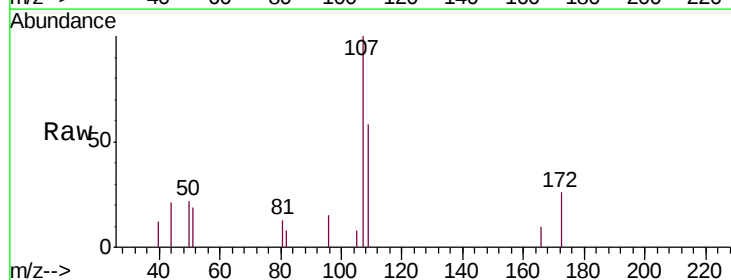
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

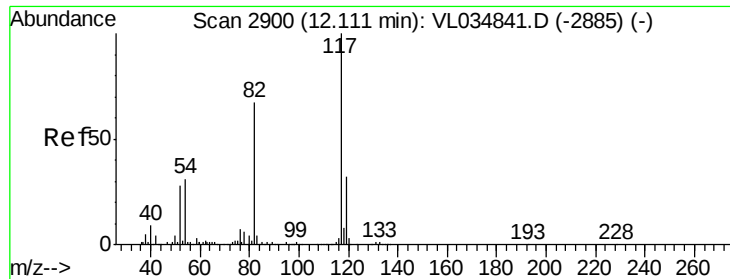
Tgt Ion: 97 Resp: 1522
 Ion Ratio Lower Upper
 97 100
 83 94.1 68.6 102.8
 85 36.4 46.9 70.3#
 99 108.4 49.9 74.9#



#54
 1,2-Dibromoethane
 Concen: 0.011 ppbv
 RT: 10.64 min Scan# 2442
 Delta R.T. 0.00 min
 Lab File: VL034879.D
 Acq: 10 Mar 2020 23:27

Tgt Ion: 107 Resp: 1131
 Ion Ratio Lower Upper
 107 100
 109 29.9 74.9 112.3#

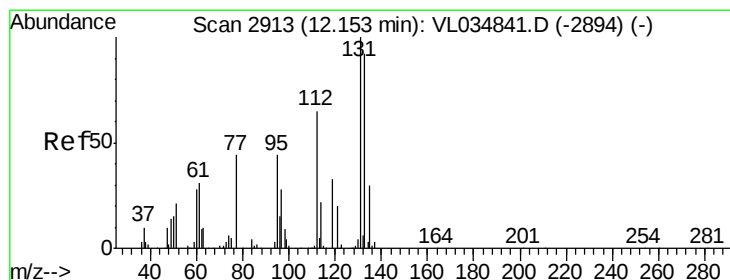
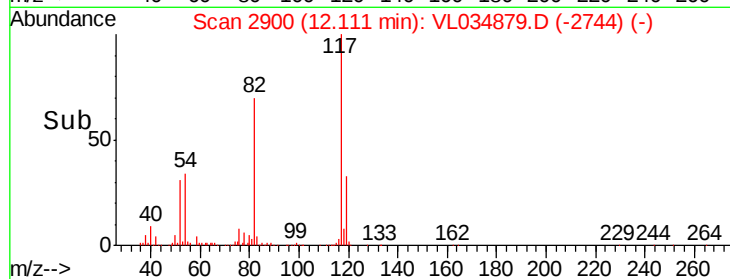
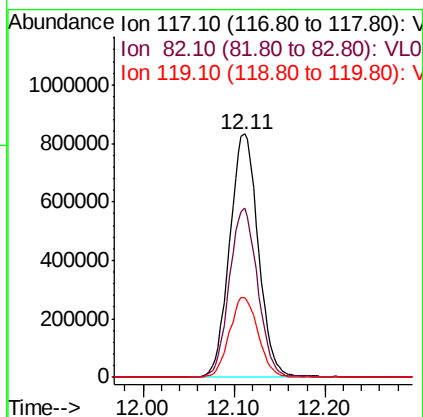
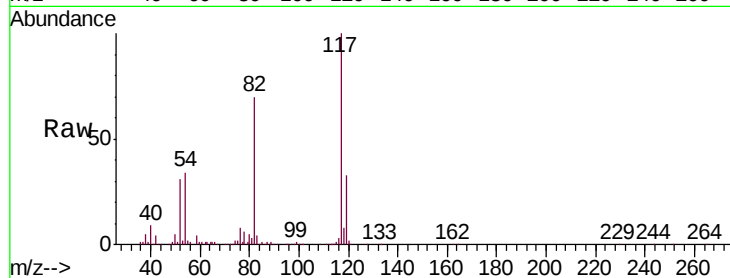




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL034879.D
Acq: 10 Mar 2020 23:27

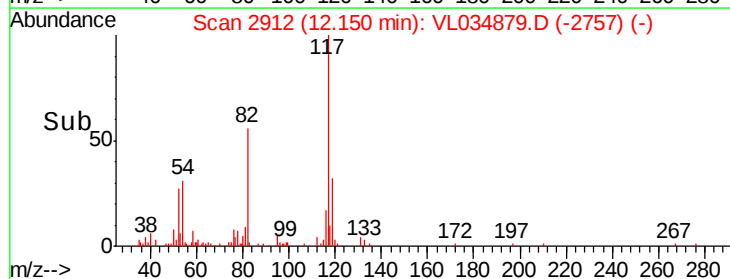
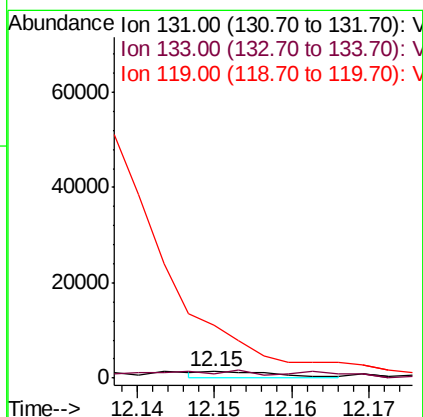
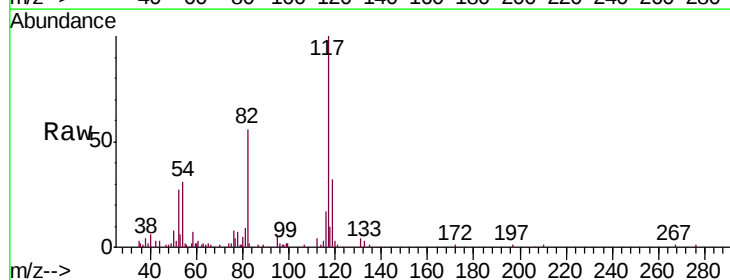
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

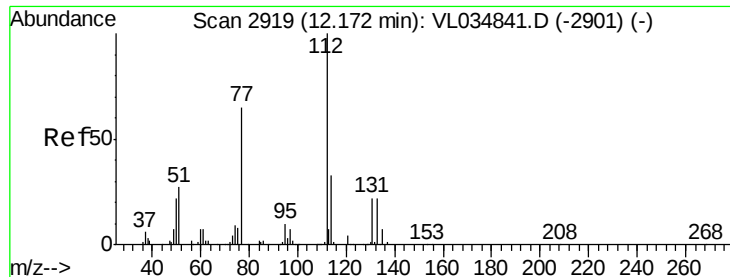
Tgt Ion:117 Resp: 1822309
Ion Ratio Lower Upper
117 100
82 69.3 51.1 76.7
119 33.1 27.3 40.9



#56
1,1,1,2-Tetrachloroethane
Concen: 0.012 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL034879.D
Acq: 10 Mar 2020 23:27

Tgt Ion:131 Resp: 1018
Ion Ratio Lower Upper
131 100
133 342.0 76.0 114.0#
119 0.0 47.8 71.8#





#57

Chlorobenzene

Concen: 0.019 ppbv

RT: 12.18 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

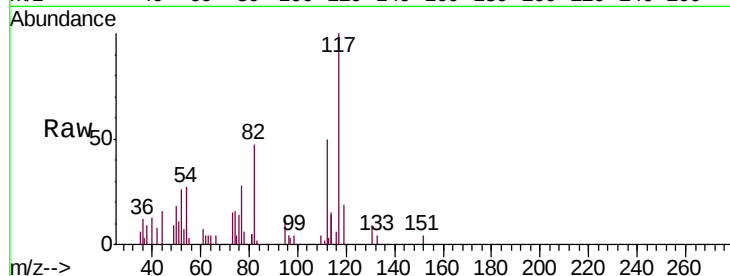
Tgt Ion: 112 Resp: 2670

Ion Ratio Lower Upper

112 100

77 4.1 53.0 79.6#

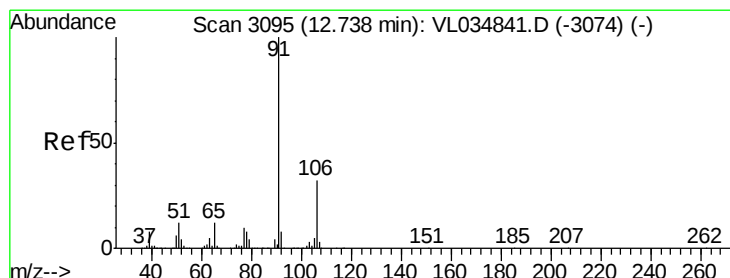
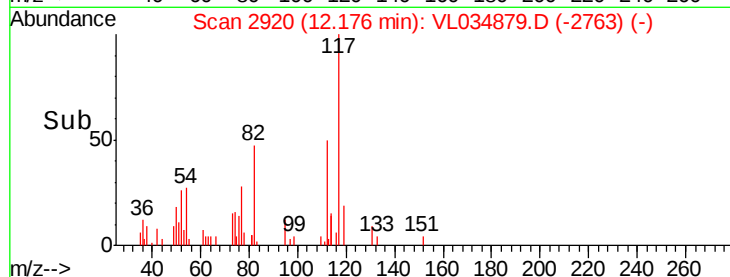
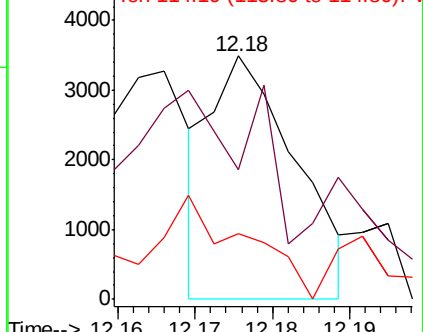
114 8.8 29.5 36.1#



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: 0.016 ppbv

RT: 13.00 min Scan# 3176

Delta R.T. 0.26 min

Lab File: VL034879.D

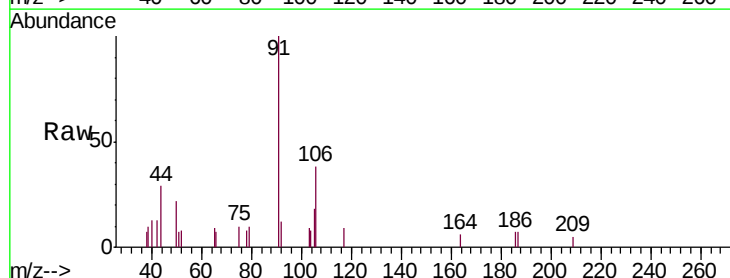
Acq: 10 Mar 2020 23:27

Tgt Ion: 91 Resp: 3866

Ion Ratio Lower Upper

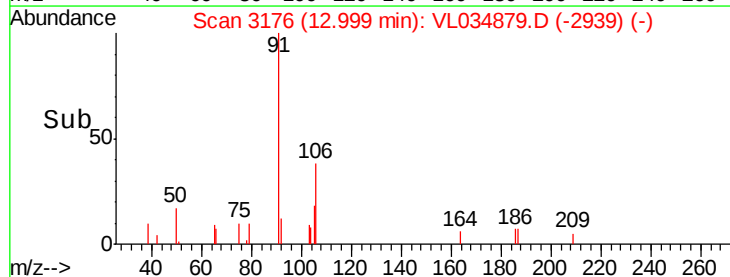
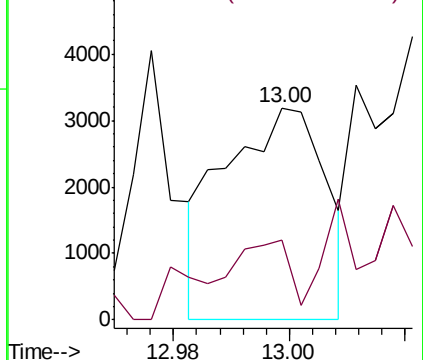
91 100

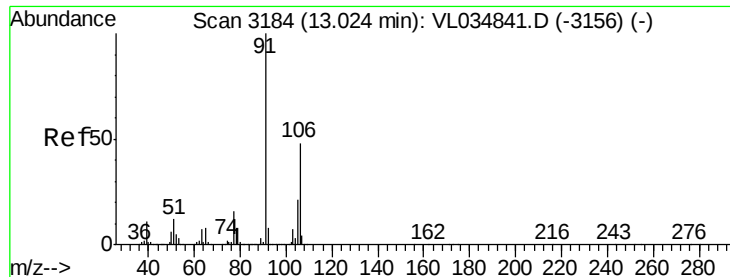
106 36.5 25.8 38.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

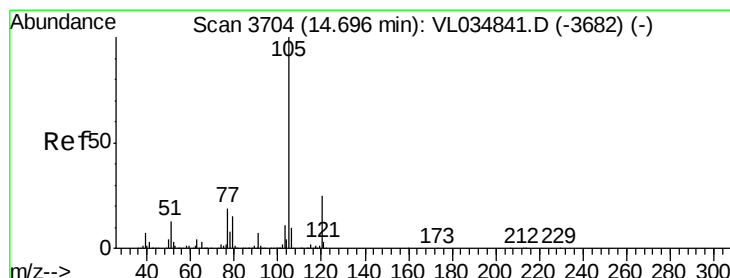
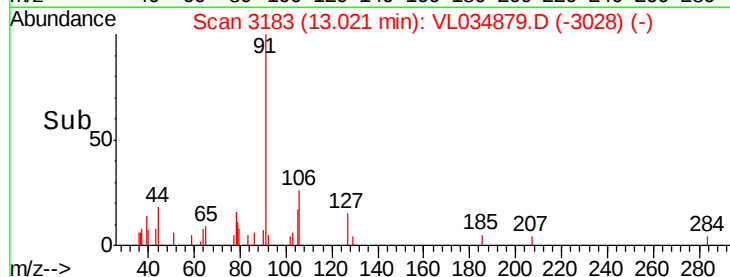
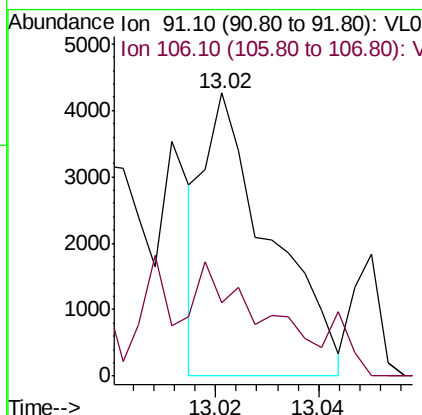
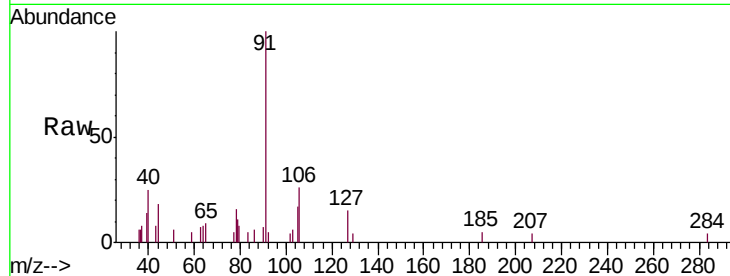




#59
m/p-Xylene
Concen: 0.018 ppbv
RT: 13.02 min Scan# 3183
Delta R.T. -0.00 min
Lab File: VL034879.D
Acq: 10 Mar 2020 23:27

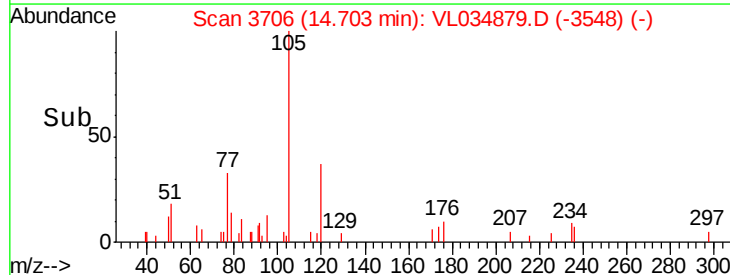
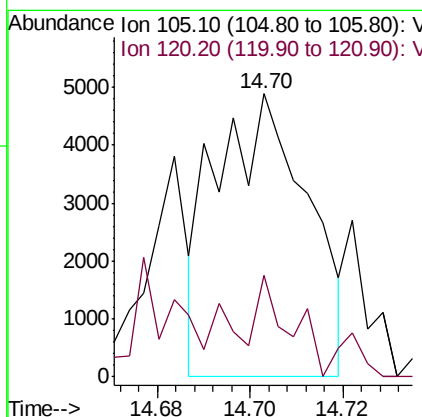
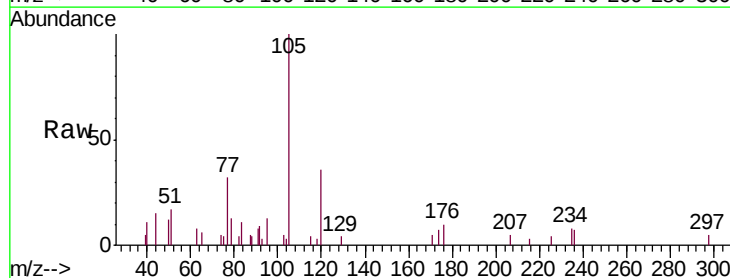
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2020

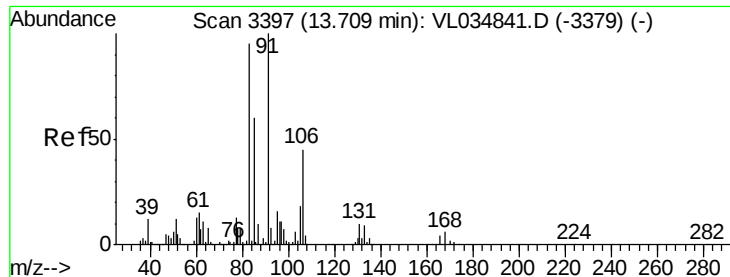
Tgt Ion: 91 Resp: 3791
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#



#62
Isopropylbenzene
Concen: 0.022 ppbv
RT: 14.70 min Scan# 3706
Delta R.T. 0.01 min
Lab File: VL034879.D
Acq: 10 Mar 2020 23:27

Tgt Ion: 105 Resp: 6736
Ion Ratio Lower Upper
105 100
120 0.0 21.0 31.4#

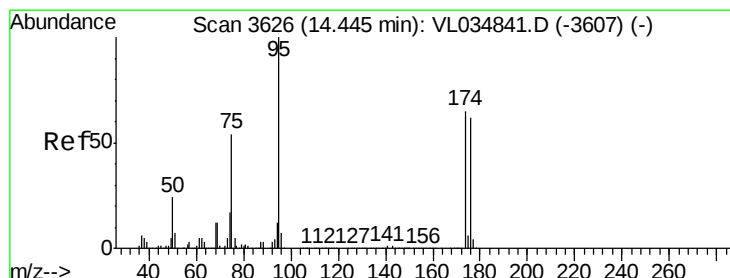
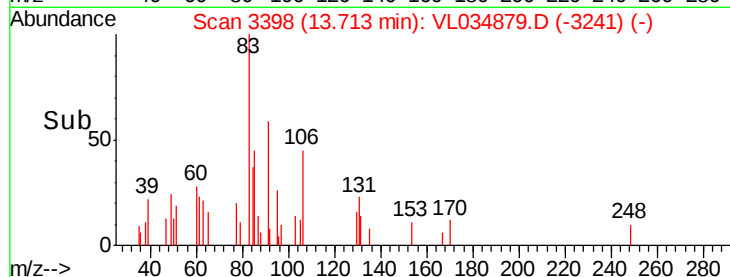
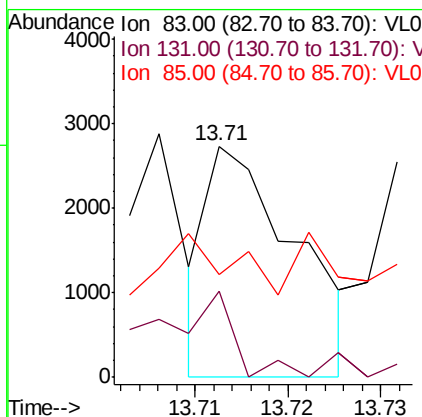
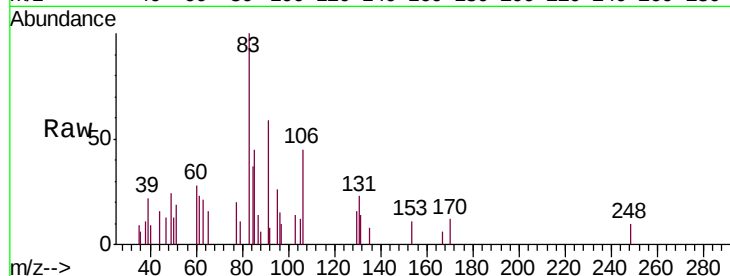




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.013 ppbv
 RT: 13.71 min Scan# 3398
 Delta R.T. 0.00 min
 Lab File: VL034879.D
 Acq: 10 Mar 2020 23:27

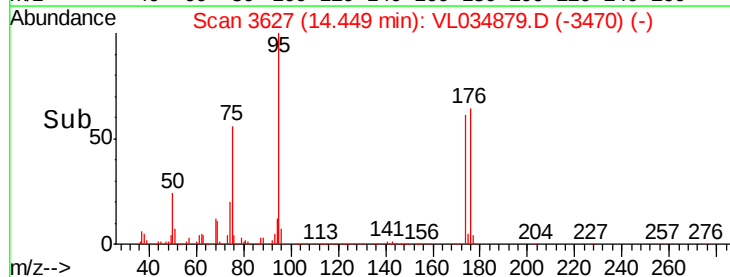
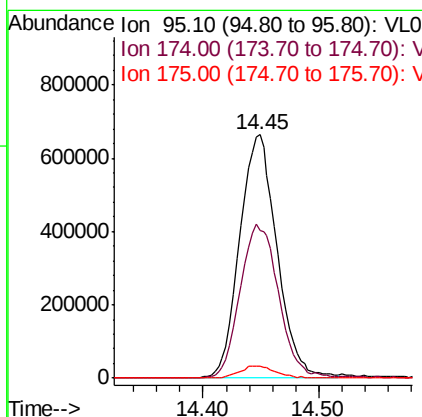
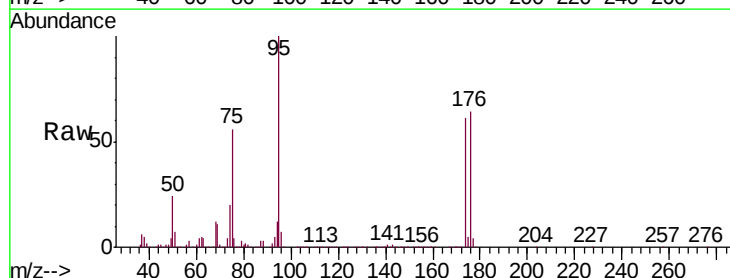
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

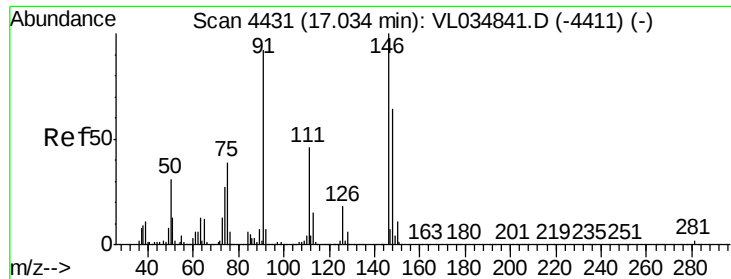
Tgt Ion: 83 Resp: 1818
 Ion Ratio Lower Upper
 83 100
 131 43.6 5.0 14.9#
 85 0.0 32.4 97.2#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.470 ppbv
 RT: 14.45 min Scan# 3627
 Delta R.T. 0.00 min
 Lab File: VL034879.D
 Acq: 10 Mar 2020 23:27

Tgt Ion: 95 Resp: 1488007
 Ion Ratio Lower Upper
 95 100
 174 66.1 55.2 82.8
 175 4.9 4.3 6.5





#75

1,3-Dichlorobenzene

Concen: 0.012 ppbv

RT: 17.03 min Scan# 4429

Delta R.T. -0.01 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

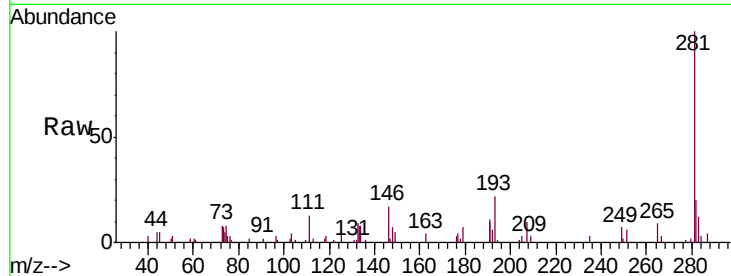
Tgt Ion:146 Resp: 1606

Ion Ratio Lower Upper

146 100

111 240.2 23.9 71.7#

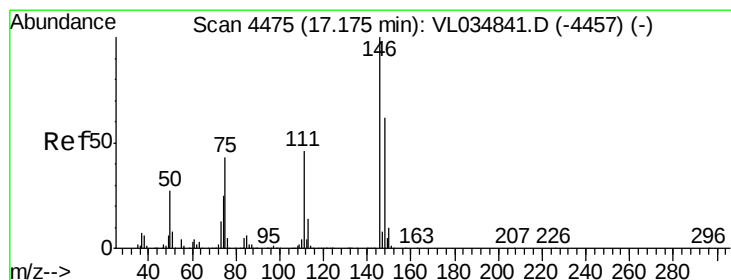
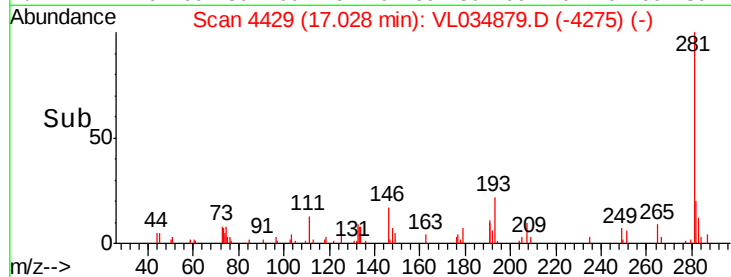
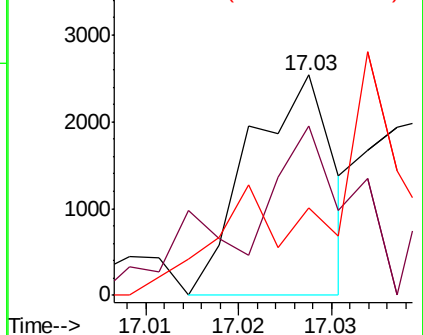
148 259.5 32.5 97.5#



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: 0.015 ppbv

RT: 17.18 min Scan# 4477

Delta R.T. 0.01 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

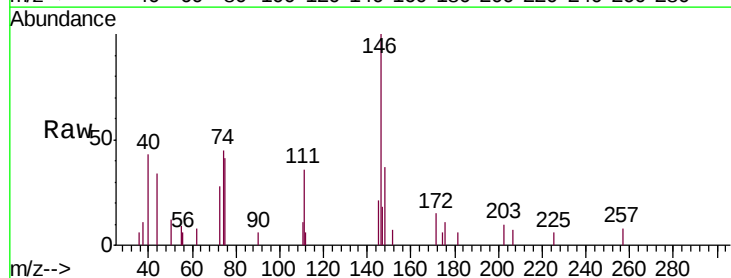
Tgt Ion:146 Resp: 2138

Ion Ratio Lower Upper

146 100

111 104.1 23.4 70.2#

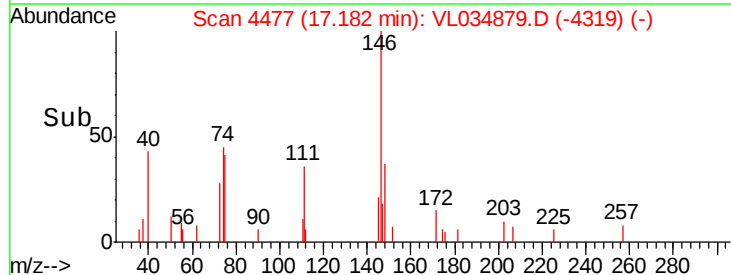
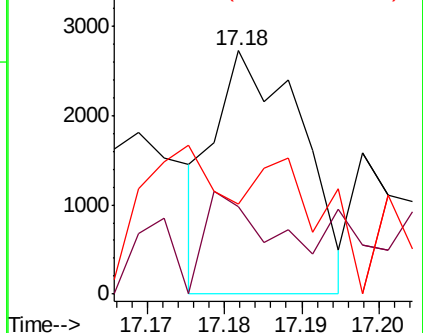
148 136.4 32.3 96.9#

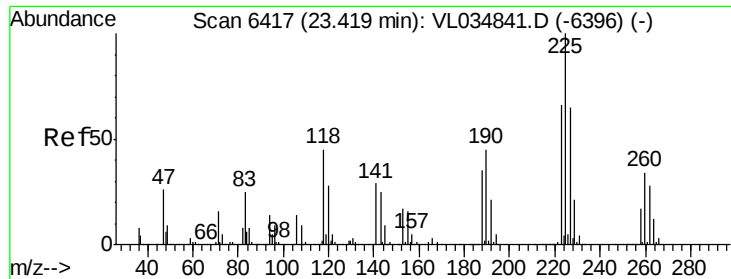


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.025 ppbv

RT: 23.42 min Scan# 6418

Delta R.T. 0.00 min

Lab File: VL034879.D

Acq: 10 Mar 2020 23:27

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2020

Tgt Ion:225 Resp: 2766

Ion Ratio Lower Upper

225 100

223 0.0 51.1 76.7#

227 158.3 51.8 77.6#

