

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052521\
 Data File : VL037060.D
 Acq On : 25 May 2021 14:37
 Operator : SY/AP
 Sample : M2262-15 0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Quant Time: May 26 01:12:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1093051	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3298035	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2858503	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2027151	9.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	31506	0.170 ppbv	94
3) Chlorodifluoromethane	2.97	51	30737	0.153 ppbv	92
4) Chloromethane	3.12	50	9073	0.133 ppbv #	77
5) Vinyl Chloride	3.25	62	4443	0.060 ppbv #	70
6) Bromomethane	3.46	94	3621	0.092 ppbv #	47
7) Chloroethane	3.54	64	2420	0.100 ppbv #	63
8) Dichlorotetrafluoroethane	3.17	85	25116	0.144 ppbv	91
10) Heptane	8.11	43	12687	0.071 ppbv #	45
11) Trichlorofluoromethane	3.93	101	11782	0.069 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	8067	0.066 ppbv #	1
13) Ethanol	3.61	45	996	0.104 ppbv #	35
14) Bromoethene	3.73	108	2934	0.054 ppbv #	6
15) Acetone	3.86	43	23541	0.210 ppbv #	45
18) 1,1-Dichloroethene	4.27	96	5341	0.094 ppbv	88
20) Methylene Chloride	4.33	84	13658	0.228 ppbv	95
21) Allyl Chloride	4.39	41	6576	0.078 ppbv #	38
24) 1,1-Dichloroethane	4.99	63	8380	0.066 ppbv #	93
26) Hexane	5.67	57	14650	0.107 ppbv #	41
27) Carbon Disulfide	4.54	76	4583	0.033 ppbv #	63
29) Chloroform	5.73	83	17534	0.090 ppbv	97
31) cis-1,2-Dichloroethene	5.53	61	10620	0.086 ppbv #	75
32) 1,1,1-Trichloroethane	6.50	97	7946	0.038 ppbv #	1
35) Carbon Tetrachloride	6.99	117	9861	0.045 ppbv	93
36) Benzene	6.87	78	20364	0.072 ppbv	95
37) 1,2-Dichloroethane	6.29	62	16462	0.117 ppbv #	80
38) Trichloroethene	7.82	130	11545	0.095 ppbv #	83
39) 1,2-Dichloropropane	7.16	63	783943	7.164 ppbv #	26
44) 2,2,4-Trimethylpentane	7.85	57	49799	0.102 ppbv #	86
46) cis-1,3-Dichloropropene	8.69	75	3214	0.032 ppbv #	26
47) 1,1,2-Trichloroethane	9.46	97	4638	0.040 ppbv #	30
48) Dibromochloromethane	10.28	129	7124	0.038 ppbv #	10
49) Bromoform	13.02	173	5895	0.038 ppbv #	40
52) Tetrachloroethene	11.20	164	6533	0.058 ppbv #	81
53) Toluene	9.78	91	15239	0.045 ppbv #	13
54) 1,2-Dibromoethane	10.60	107	6250	0.038 ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.11	131	8623	0.072 ppbv #	5
57) Chlorobenzene	12.12	112	6906	0.031 ppbv #	10
58) Ethyl Benzene	12.69	91	24042	0.060 ppbv	94
59) m/p-Xylene	12.98	91	31066	0.093 ppbv #	30
60) o-Xylene	13.67	91	32744	0.103 ppbv	96
61) Styrene	13.52	104	6610	0.037 ppbv #	1

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

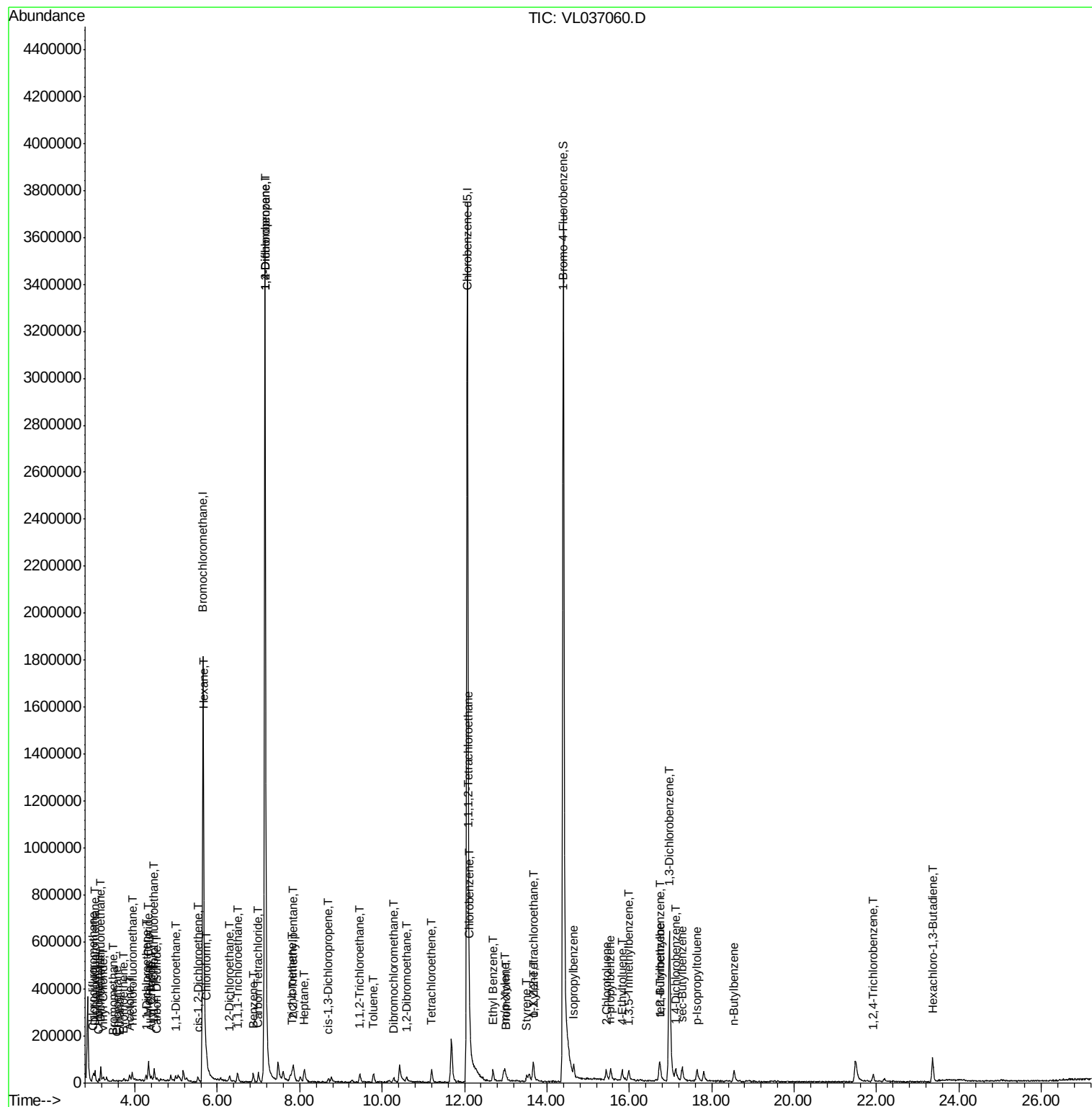
62) Isopropylbenzene	14.65	105	28325	0.062	ppbv #	54
63) 1,1,2,2-Tetrachloroethane	13.66	83	10606	0.045	ppbv #	1
64) n-propylbenzene	15.55	120	4759	0.040	ppbv #	1
65) tert-Butylbenzene	16.73	119	21754	0.053	ppbv #	1
67) sec-Butylbenzene	17.28	105	45622	0.081	ppbv #	84
69) p-Isopropyltoluene	17.64	119	17335	0.036	ppbv #	48
70) n-Butylbenzene	18.54	91	14607	0.032	ppbv #	32
71) 2-Chlorotoluene	15.44	91	25718	0.078	ppbv	79
72) 4-Ethyltoluene	15.83	105	23282	0.062	ppbv #	67
73) 1,3,5-Trimethylbenzene	15.98	105	15041	0.042	ppbv	91
74) 1,2,4-Trimethylbenzene	16.74	105	12880	0.035	ppbv #	91
75) 1,3-Dichlorobenzene	16.98	146	8252	0.037	ppbv #	1
76) 1,4-Dichlorobenzene	17.11	146	8139	0.036	ppbv #	22
78) Hexachloro-1,3-Butadiene	23.36	225	7234	0.040	ppbv #	1
81) 1,2,4-Trichlorobenzene	21.92	180	5355	0.031	ppbv #	1

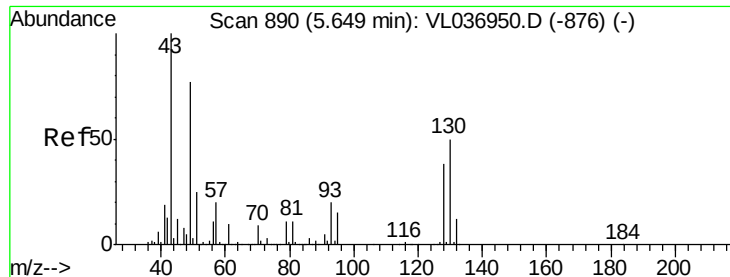
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037060.D

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Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

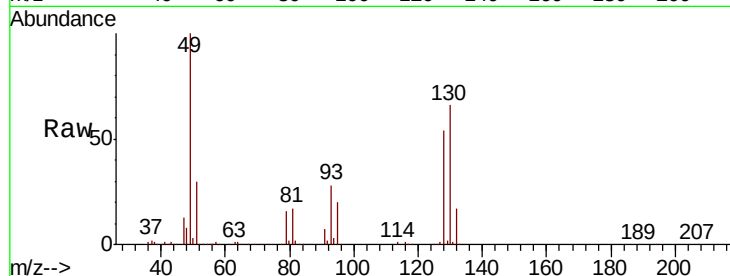
Tot Ion: 49 Resp: 1093051

Ion Ratio Lower Upper

49 100

128 57.7 26.9 80.7

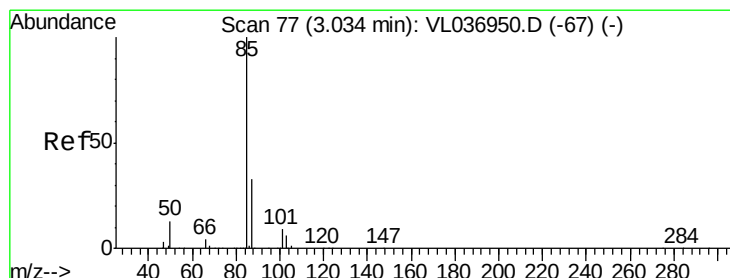
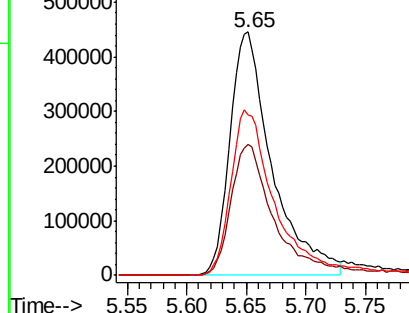
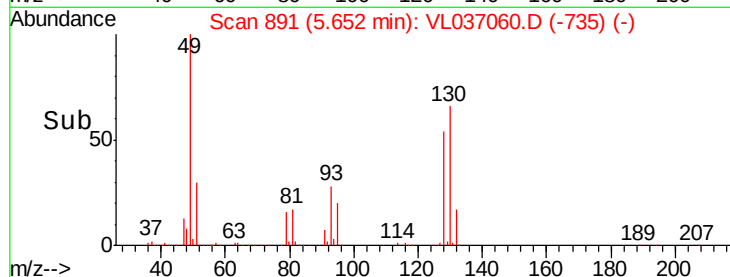
130 73.3 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.170 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL037060.D

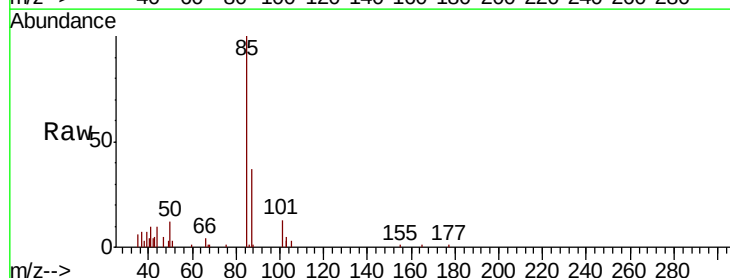
Acq: 25 May 2021 14:37

Tgt Ion: 85 Resp: 31506

Ion Ratio Lower Upper

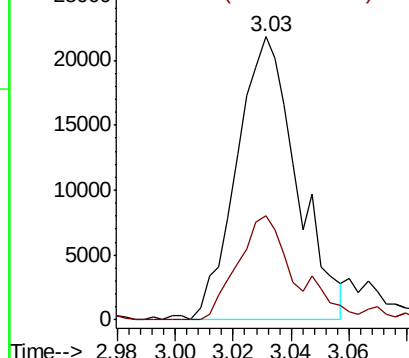
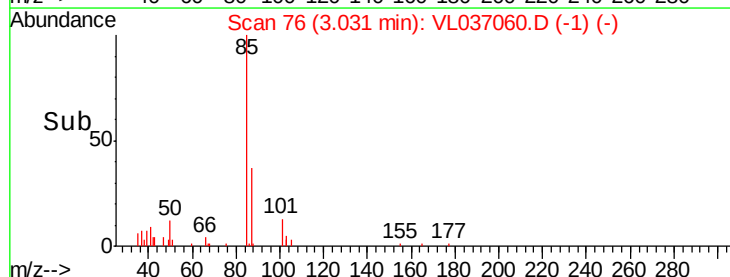
85 100

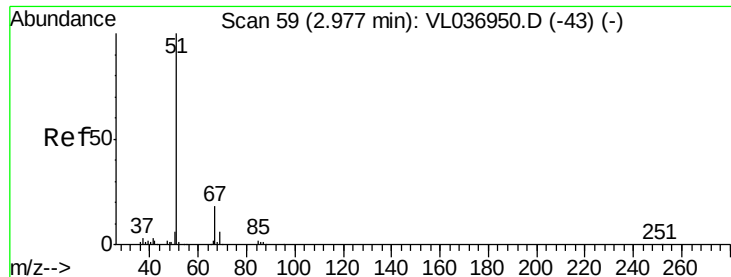
87 36.7 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.153 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

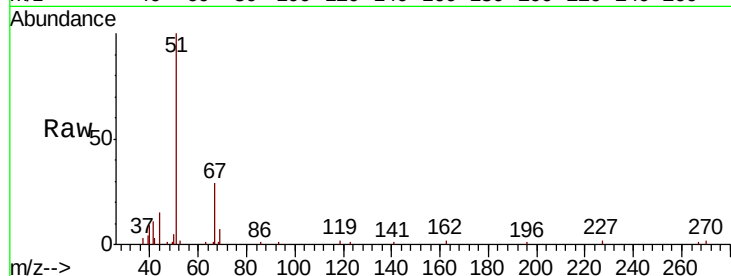
MDL-AIR-03-QT2-2021

Tot Ion: 51 Resp: 30737

Ion Ratio Lower Upper

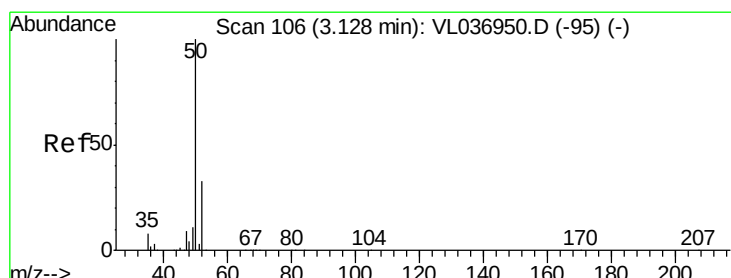
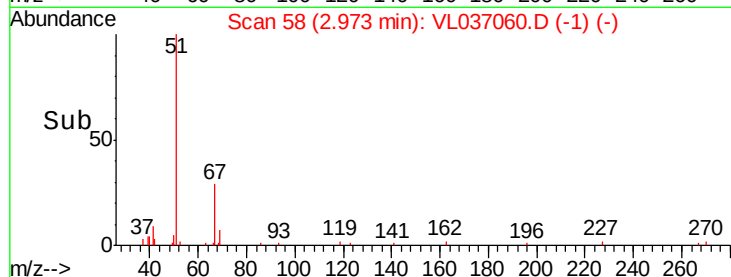
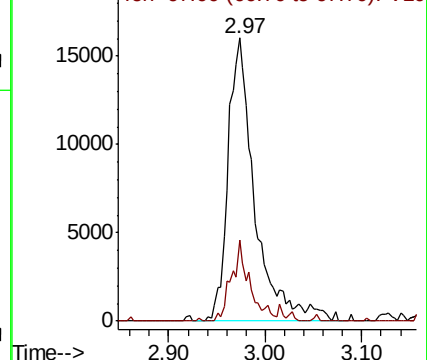
51 100

67 21.6 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.133 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL037060.D

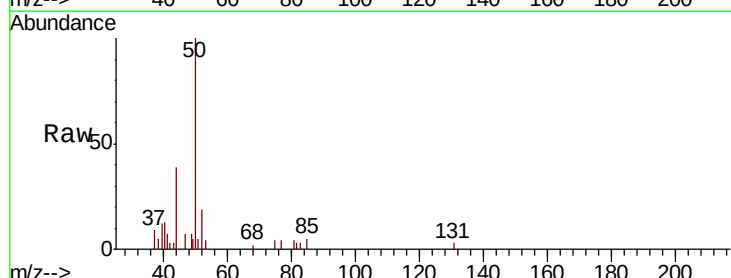
Acq: 25 May 2021 14:37

Tgt Ion: 50 Resp: 9073

Ion Ratio Lower Upper

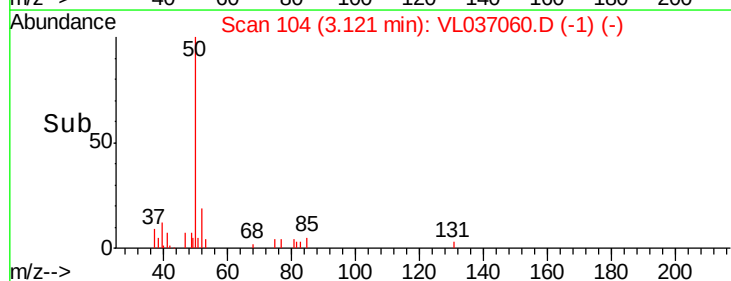
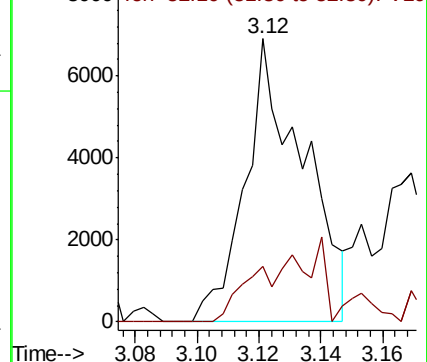
50 100

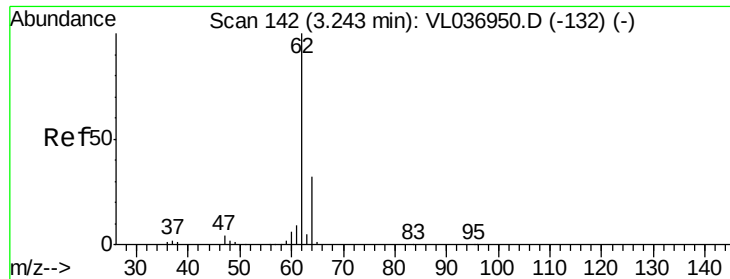
52 19.5 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.060 ppbv

RT: 3.25 min Scan# 143

Delta R.T. 0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

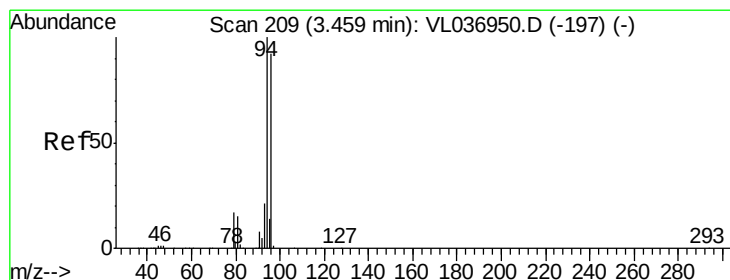
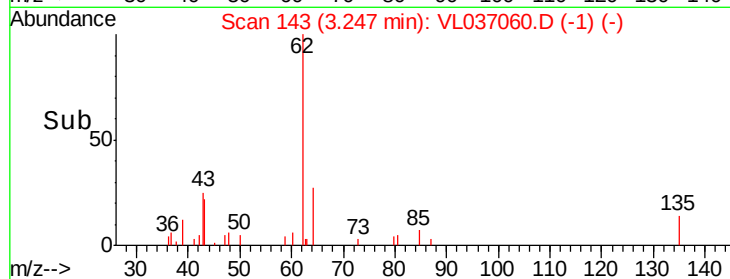
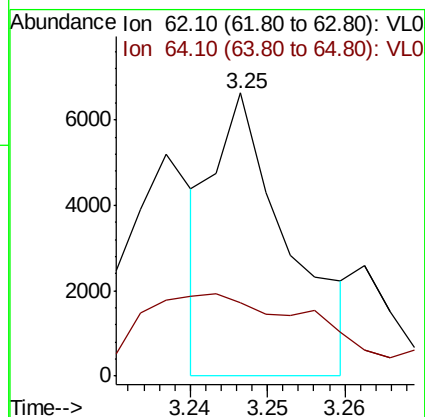
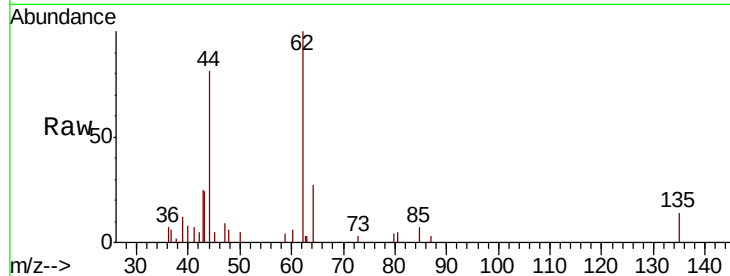
MDL-AIR-03-QT2-2021

Tot Ion: 62 Resp: 4443

Ion Ratio Lower Upper

62 100

64 15.8 25.9 38.9#



#6

Bromomethane

Concen: 0.092 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL037060.D

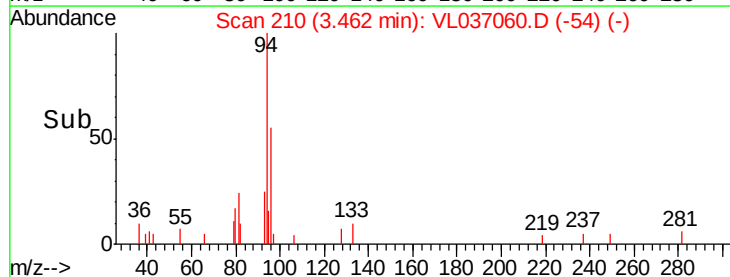
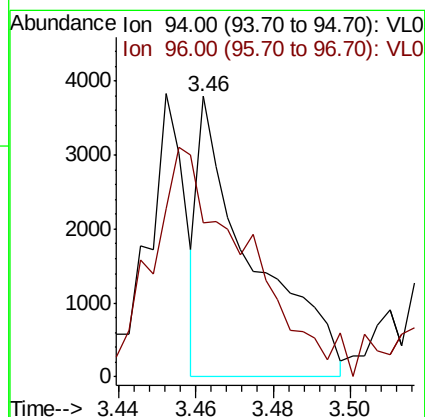
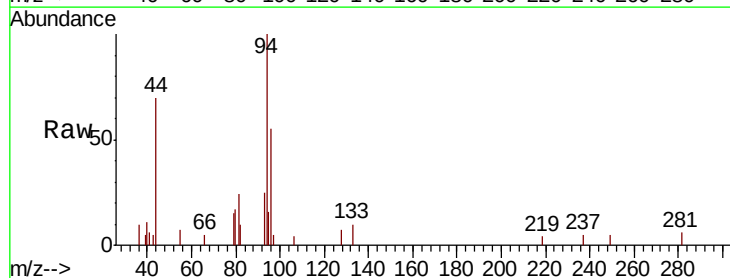
Acq: 25 May 2021 14:37

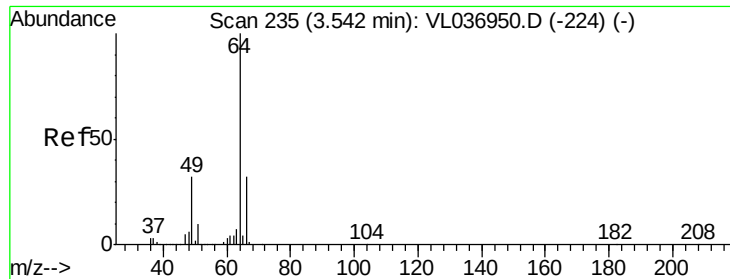
Tgt Ion: 94 Resp: 3621

Ion Ratio Lower Upper

94 100

96 41.6 74.0 111.0#





#7

Chloroethane

Concen: 0.100 ppbv

RT: 3.54 min Scan# 235

Delta R.T. -0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

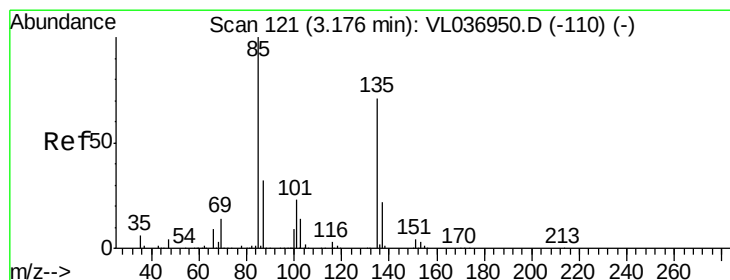
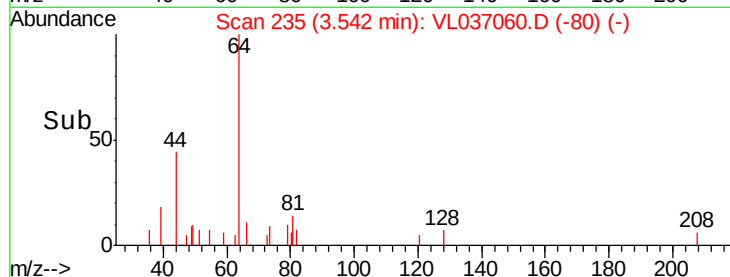
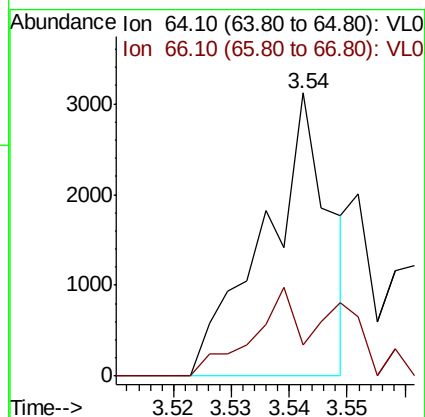
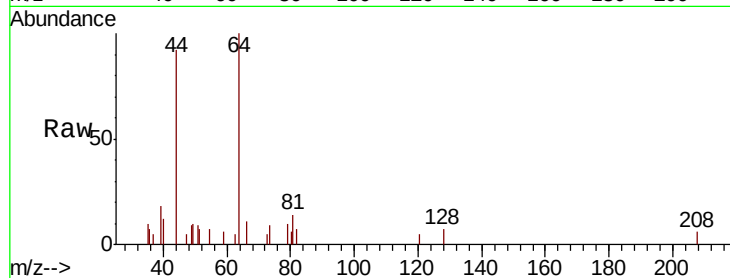
MDL-AIR-03-QT2-2021

Tot Ion: 64 Resp: 2420

Ion Ratio Lower Upper

64 100

66 11.2 25.4 38.2#



#8

Dichlorotetrafluoroethane

Concen: 0.144 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.00 min

Lab File: VL037060.D

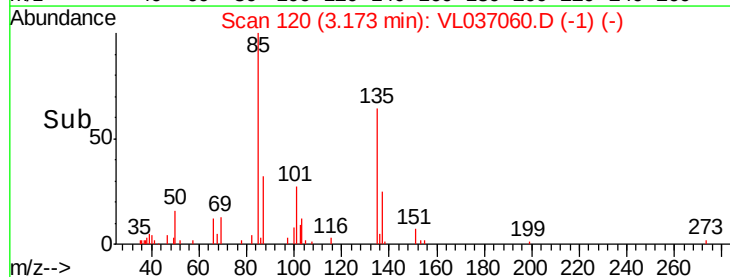
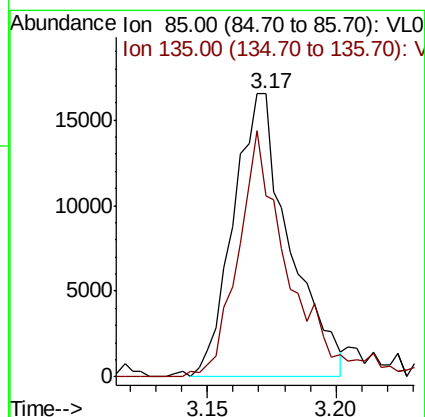
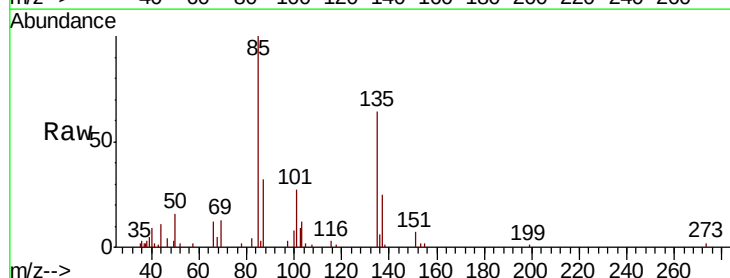
Acq: 25 May 2021 14:37

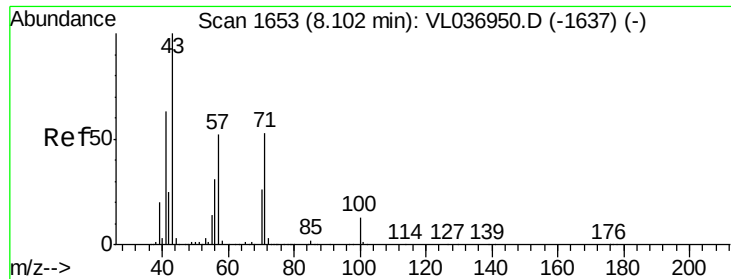
Tgt Ion: 85 Resp: 25116

Ion Ratio Lower Upper

85 100

135 79.2 57.7 86.5





#10

Heptane

Concen: 0.071 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

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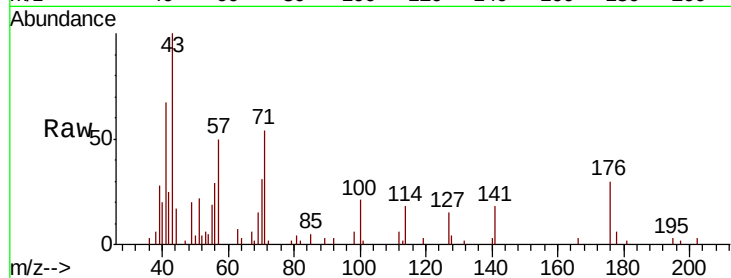
MDL-AIR-03-QT2-2021

Tot Ion: 43 Resp: 12687

Ion Ratio Lower Upper

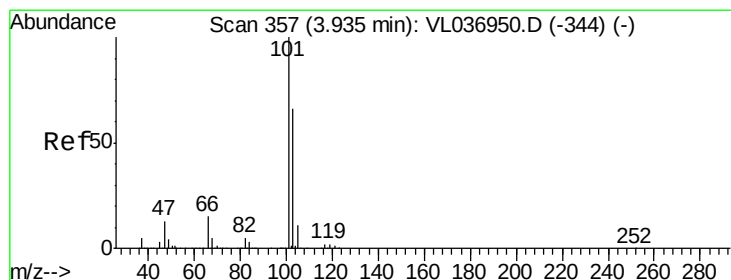
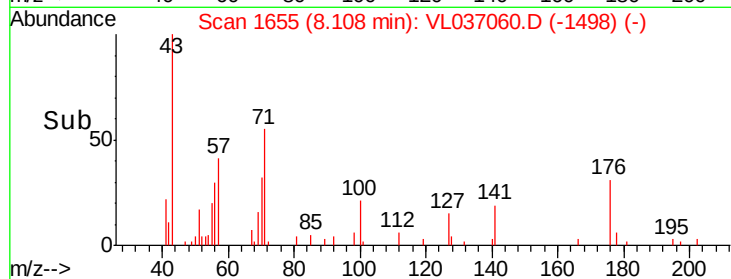
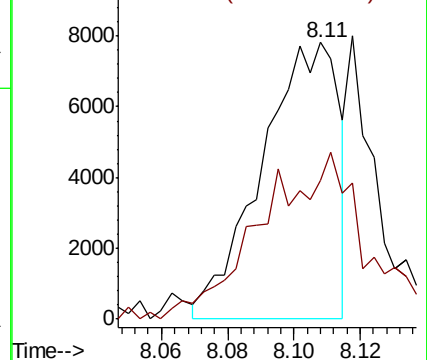
43 100

57 89.6 41.0 61.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.069 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL037060.D

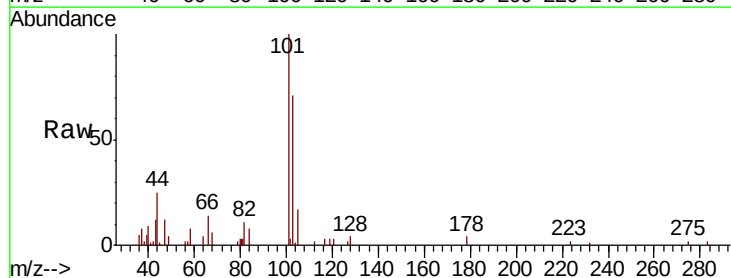
Acq: 25 May 2021 14:37

Tgt Ion: 101 Resp: 11782

Ion Ratio Lower Upper

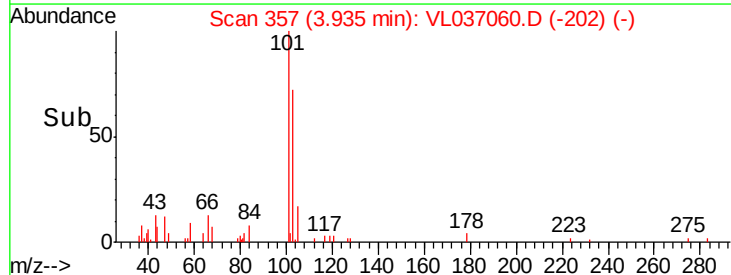
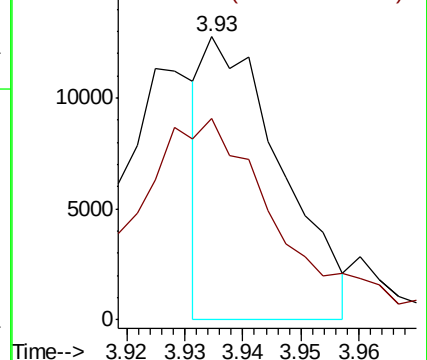
101 100

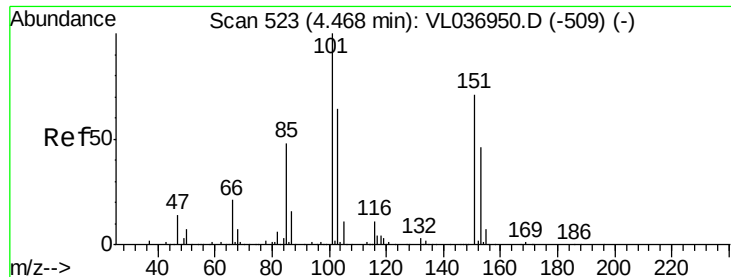
103 67.3 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.066 ppbv

RT: 4.47 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

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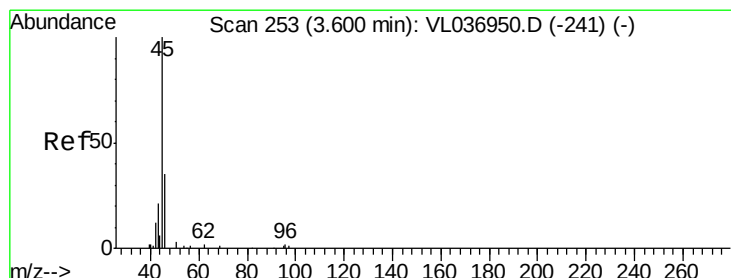
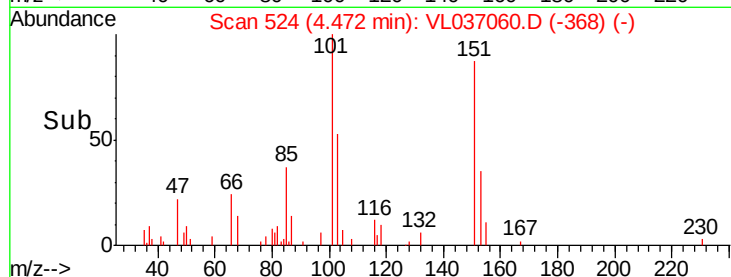
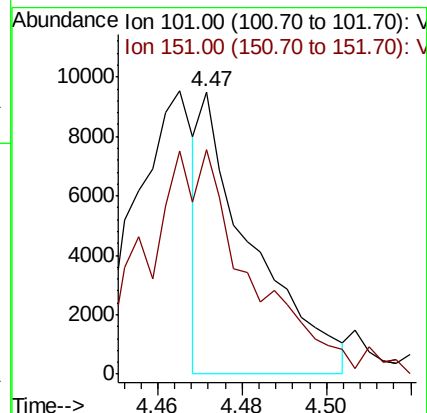
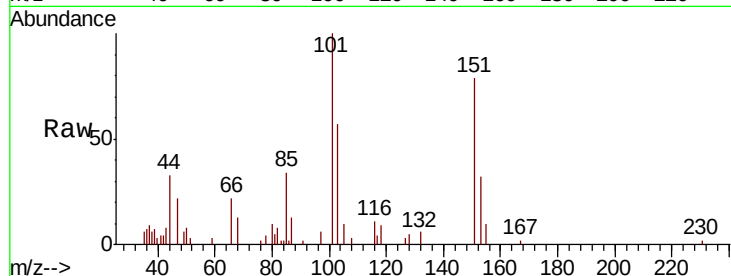
MDL-AIR-03-QT2-2021

Tot Ion:101 Resp: 8067

Ion Ratio Lower Upper

101 100

151 170.6 57.7 86.5#



#13

Ethanol

Concen: 0.104 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL037060.D

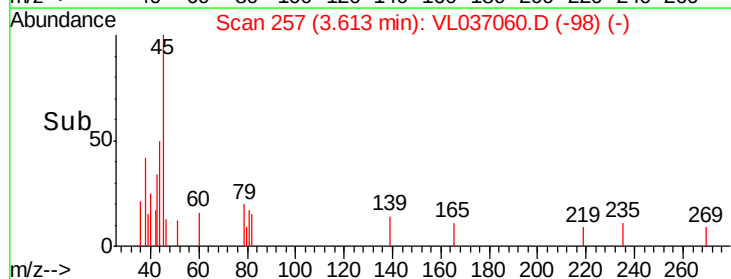
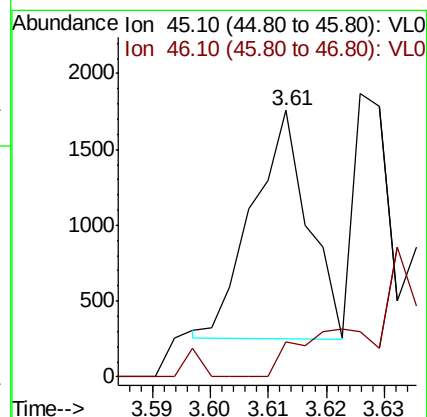
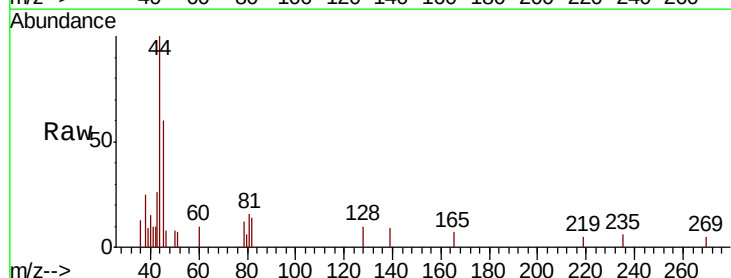
Acq: 25 May 2021 14:37

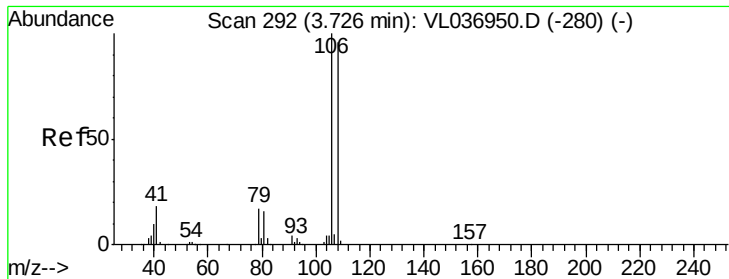
Tgt Ion: 45 Resp: 996

Ion Ratio Lower Upper

45 100

46 0.0 16.3 65.3#





#14

Bromoethene

Concen: 0.054 ppbv

RT: 3.73 min Scan# 294

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

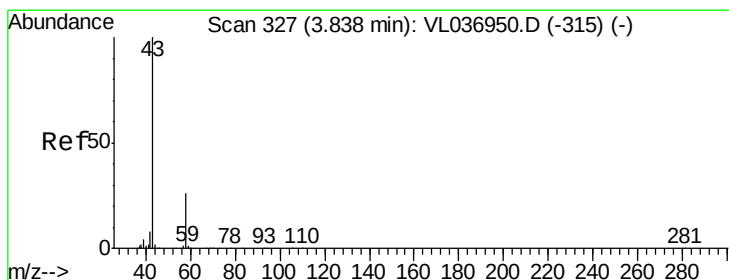
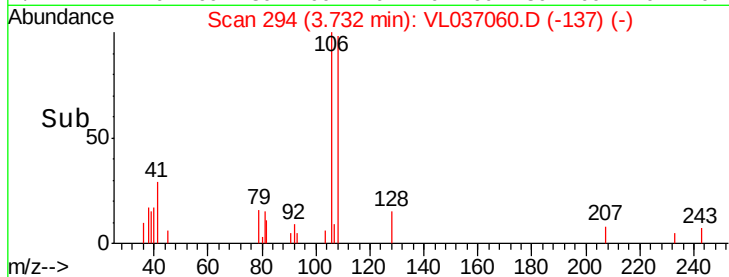
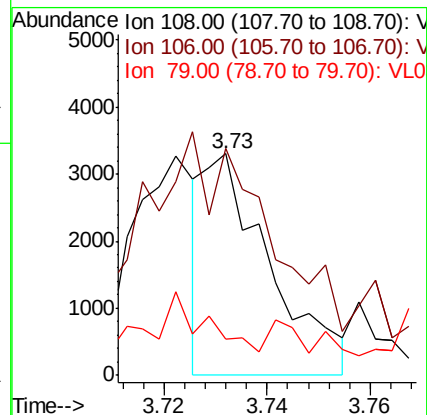
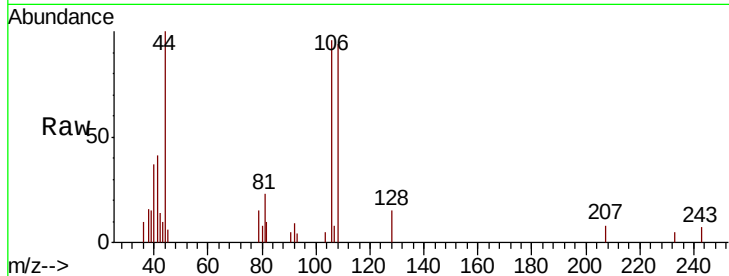
Tot Ion:108 Resp: 2934

Ion Ratio Lower Upper

108 100

106 0.0 86.5 129.7#

79 0.0 15.0 22.4#



#15

Acetone

Concen: 0.210 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.03 min

Lab File: VL037060.D

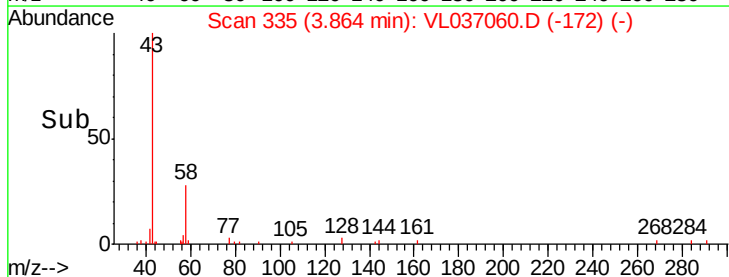
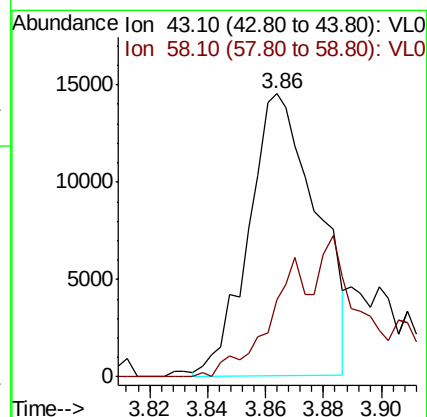
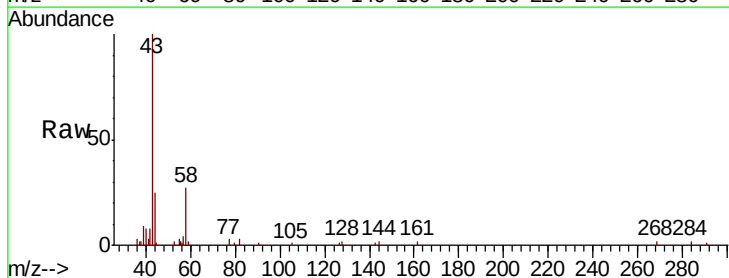
Acq: 25 May 2021 14:37

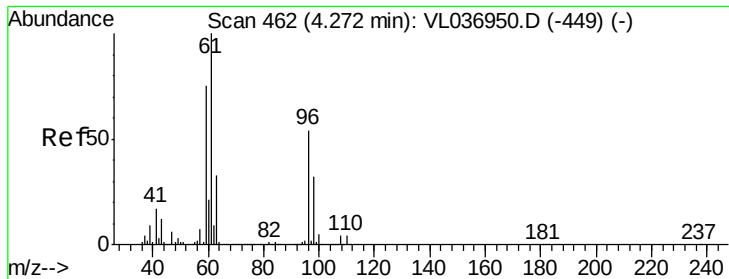
Tgt Ion: 43 Resp: 23541

Ion Ratio Lower Upper

43 100

58 0.0 24.0 36.0#

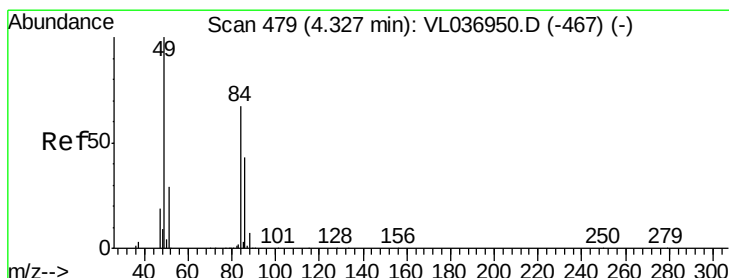
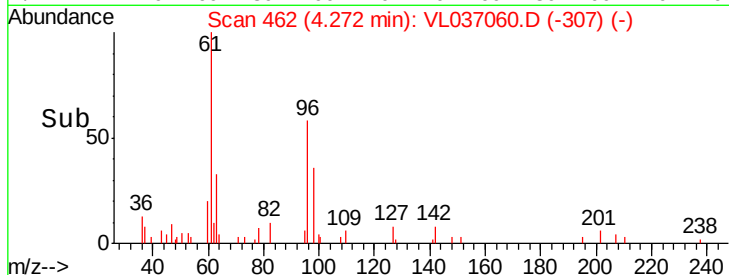
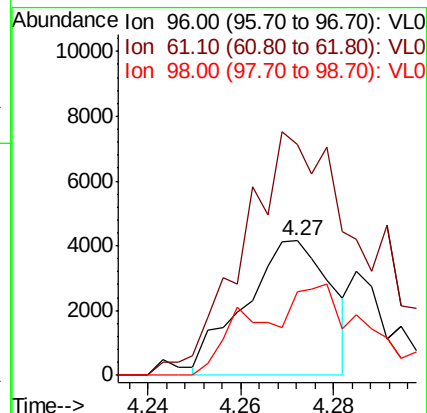
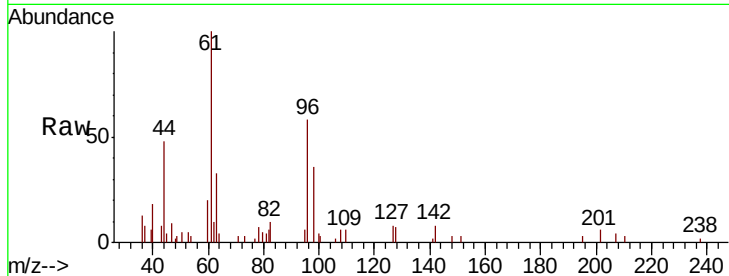




#18
 1,1-Dichloroethene
 Concen: 0.094 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. -0.00 min
 Lab File: VL037060.D
 Acq: 25 May 2021 14:37

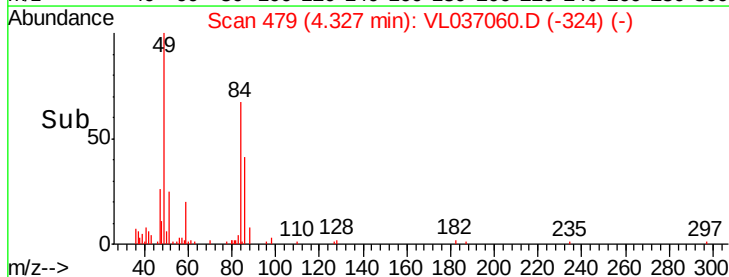
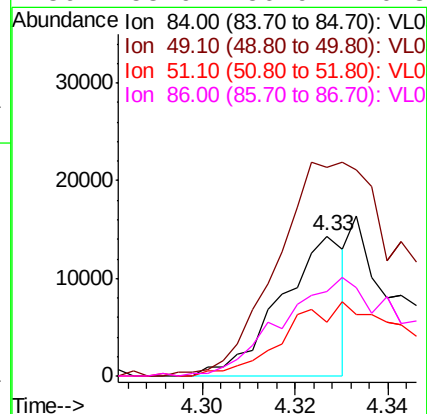
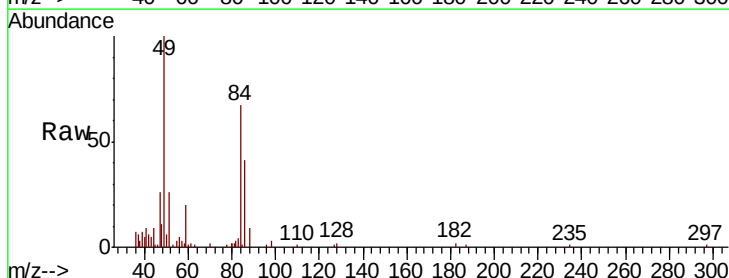
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

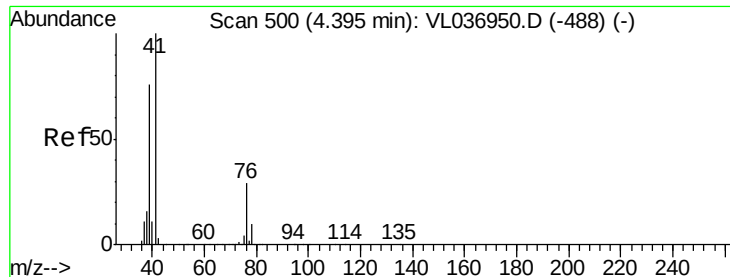
Tot Ion: 96 Resp: 5341
 Ion Ratio Lower Upper
 96 100
 61 166.1 148.2 222.4
 98 65.6 47.8 71.6



#20
 Methylene Chloride
 Concen: 0.228 ppbv
 RT: 4.33 min Scan# 479
 Delta R.T. -0.00 min
 Lab File: VL037060.D
 Acq: 25 May 2021 14:37

Tgt Ion: 84 Resp: 13658
 Ion Ratio Lower Upper
 84 100
 49 146.1 119.8 179.6
 51 38.7 35.1 52.7
 86 58.9 50.9 76.3

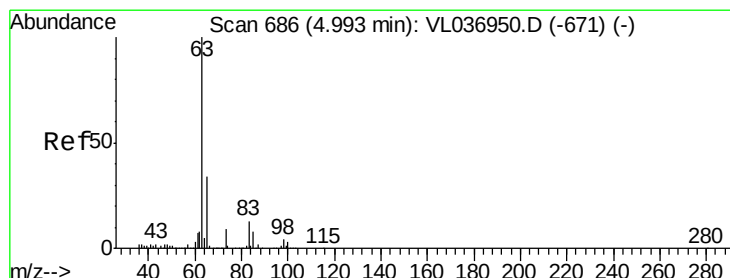
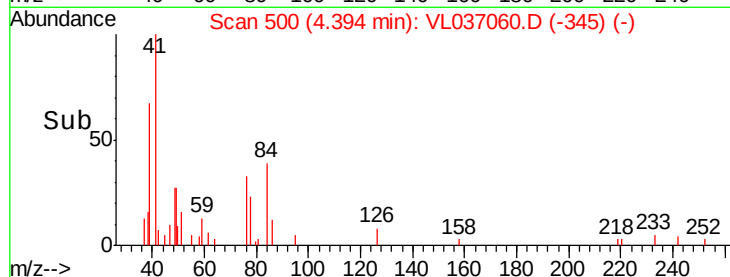
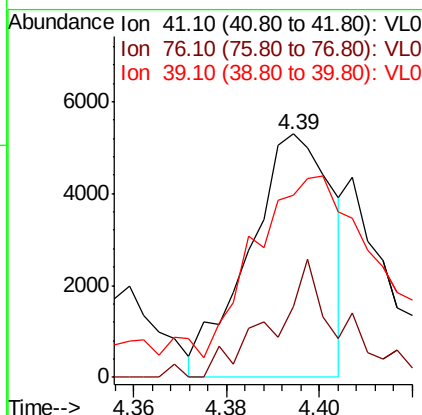
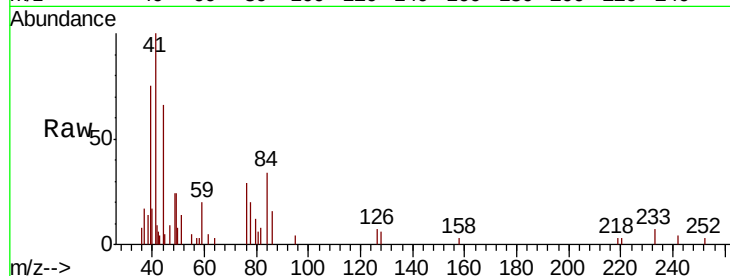




#21
 Allvl Chloride
 Concen: 0.078 ppbv
 RT: 4.39 min Scan# 500
 Delta R.T. -0.00 min
 Lab File: VL037060.D
 Acq: 25 May 2021 14:37

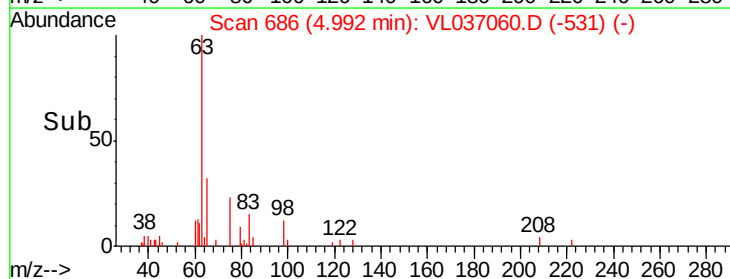
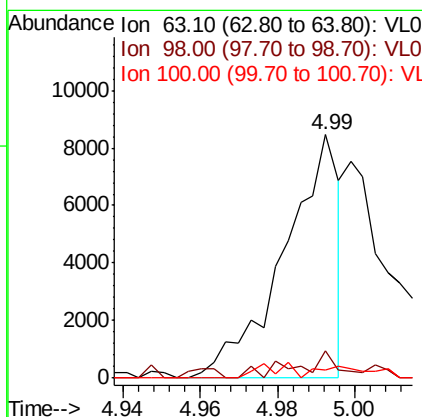
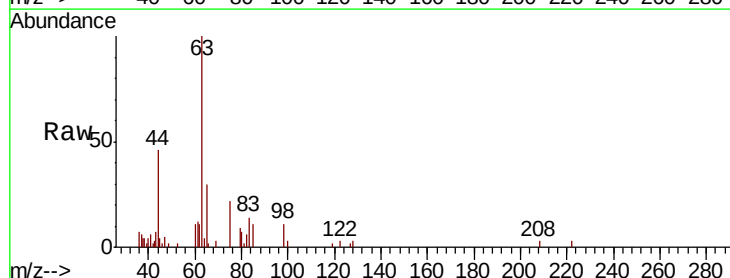
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

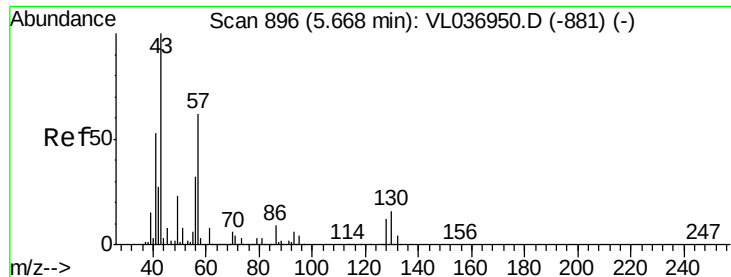
Tot Ion: 41 Resp: 6576
 Ion Ratio Lower Upper
 41 100
 76 53.9 24.9 37.3#
 39 140.8 63.7 95.5#



#24
 1,1-Dichloroethane
 Concen: 0.066 ppbv
 RT: 4.99 min Scan# 686
 Delta R.T. -0.00 min
 Lab File: VL037060.D
 Acq: 25 May 2021 14:37

Tgt Ion: 63 Resp: 8380
 Ion Ratio Lower Upper
 63 100
 98 8.2 2.3 6.9#
 100 3.0 1.4 4.0

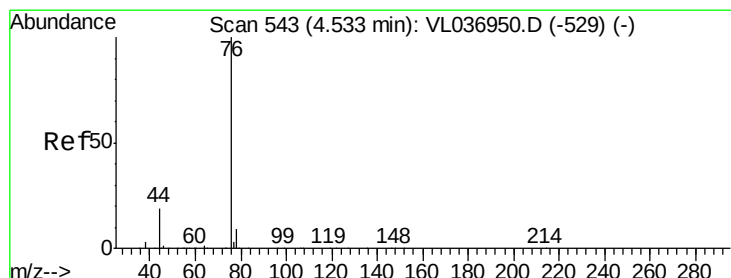
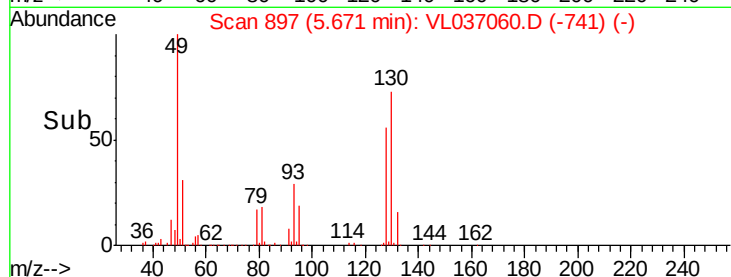
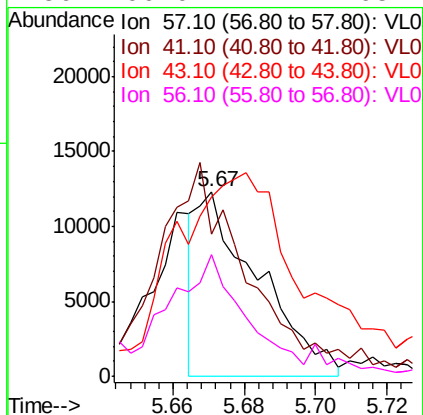
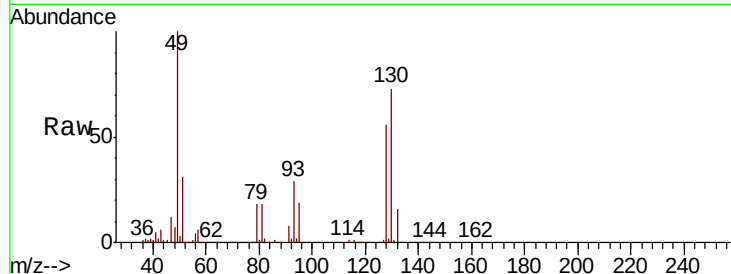




#26
Hexane
Concen: 0.107 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037060.D
Acq: 25 May 2021 14:37

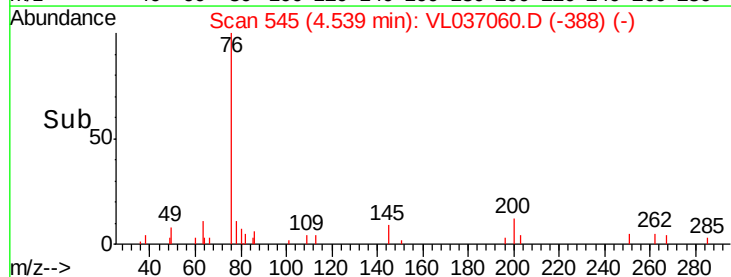
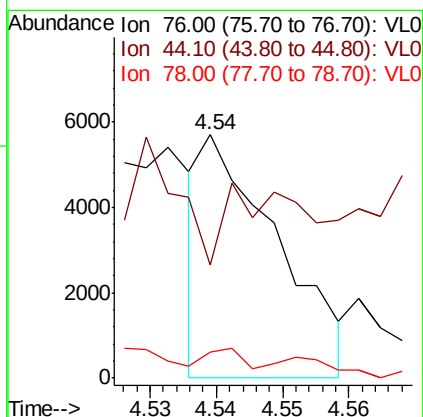
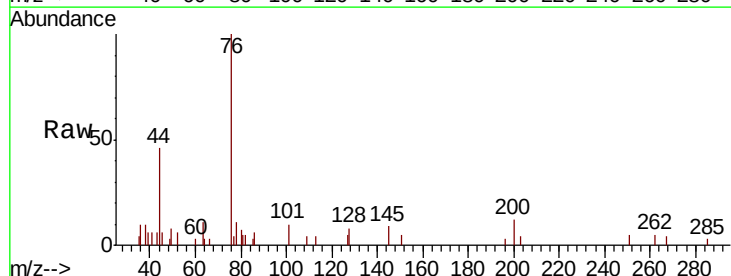
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

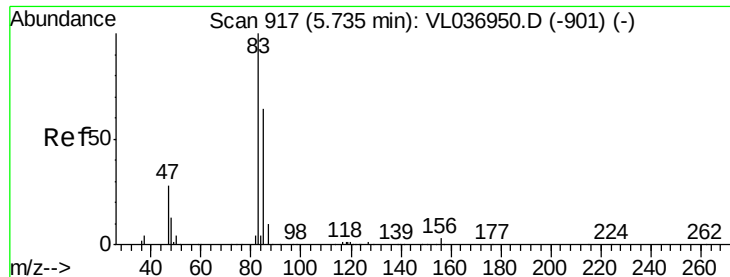
Tot Ion: 57 Resp: 14650
Ion Ratio Lower Upper
57 100
41 180.0 70.5 105.7#
43 268.8 165.8 248.8#
56 100.0 42.2 63.4#



#27
Carbon Disulfide
Concen: 0.033 ppbv
RT: 4.54 min Scan# 545
Delta R.T. 0.01 min
Lab File: VL037060.D
Acq: 25 May 2021 14:37

Tgt Ion: 76 Resp: 4583
Ion Ratio Lower Upper
76 100
44 0.0 15.5 23.3#
78 0.0 7.8 11.6#





#29

Chloroform

Concen: 0.090 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

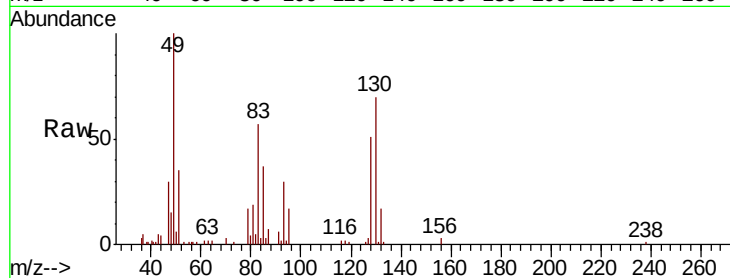
MDL-AIR-03-QT2-2021

Tot Ion: 83 Resp: 17534

Ion Ratio Lower Upper

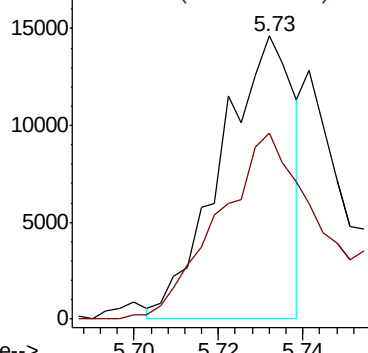
83 100

85 66.6 51.1 76.7

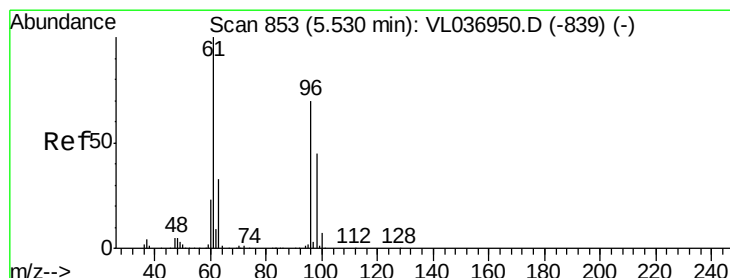
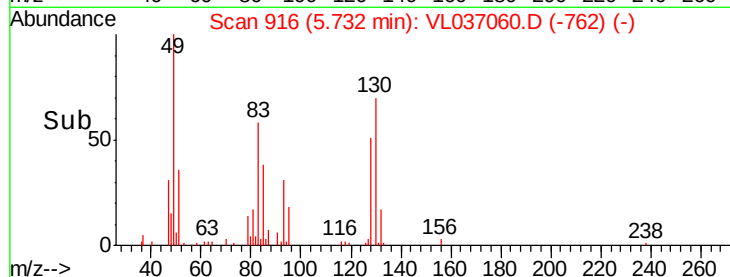


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



Time-->



#31

cis-1,2-Dichloroethene

Concen: 0.086 ppbv

RT: 5.53 min Scan# 854

Delta R.T. 0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

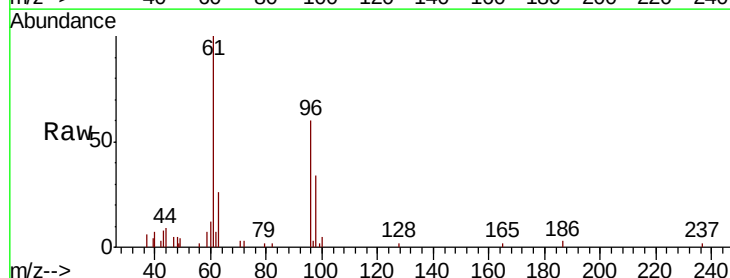
Tgt Ion: 61 Resp: 10620

Ion Ratio Lower Upper

61 100

96 49.7 55.9 83.9#

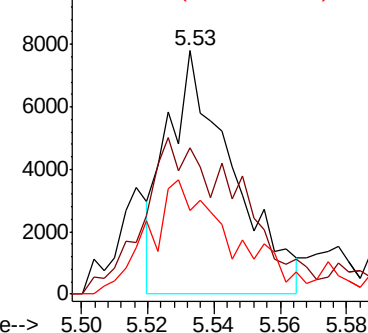
98 27.3 35.6 53.4#



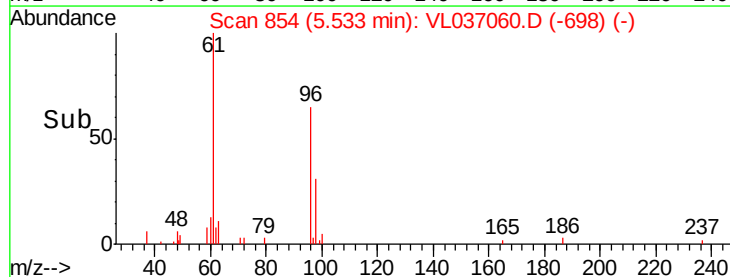
Abundance Ion 61.10 (60.80 to 61.80): VL0

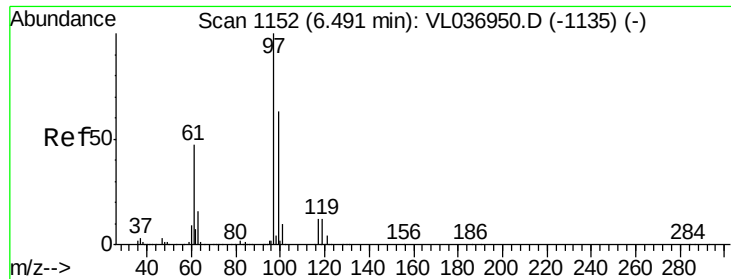
Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



Time-->





#32

1,1,1-Trichloroethane

Concen: 0.038 ppbv

RT: 6.50 min Scan# 1154

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

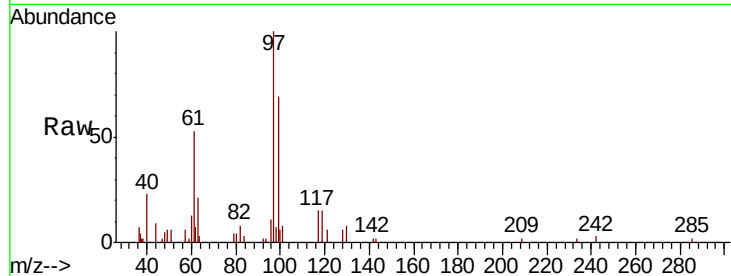
Tot Ion: 97 Resp: 7946

Ion Ratio Lower Upper

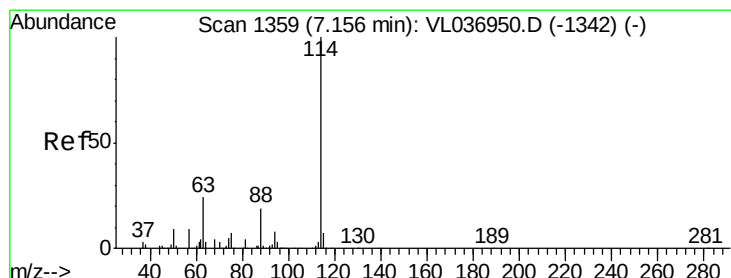
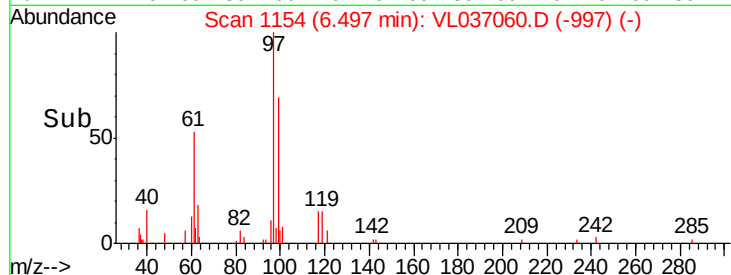
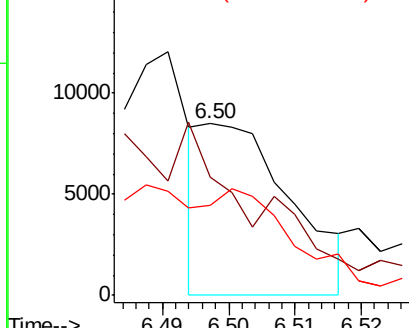
97 100

99 198.5 51.9 77.9#

61 0.0 37.6 56.4#



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: 7.16 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

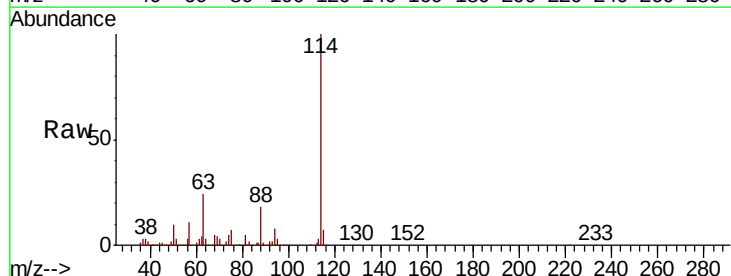
Tgt Ion: 114 Resp: 3298035

Ion Ratio Lower Upper

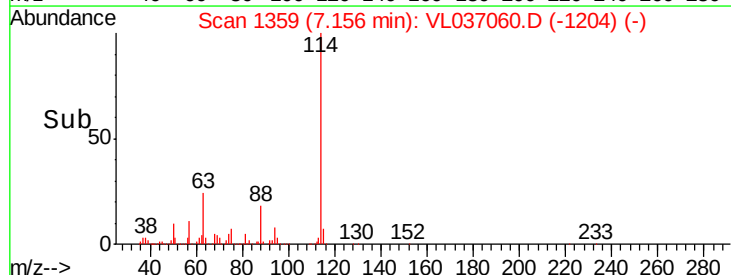
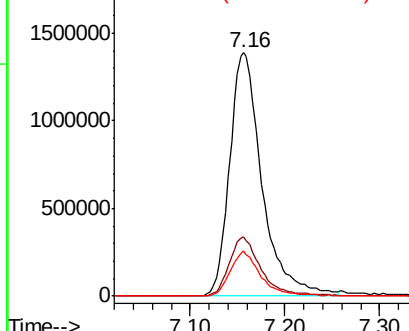
114 100

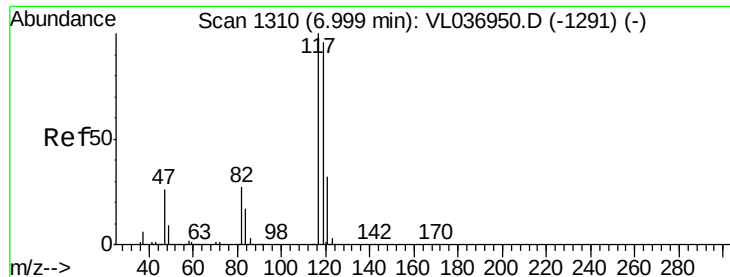
63 24.2 19.6 29.4

88 17.6 14.6 21.8



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





#35

Carbon Tetrachloride

Concen: 0.045 ppbv

RT: 6.99 min Scan# 1308

Delta R.T. -0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

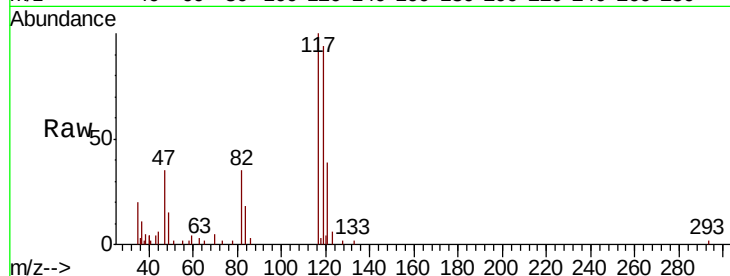
Tot Ion:117 Resp: 9861

Ion Ratio Lower Upper

117 100

119 90.0 76.6 114.8

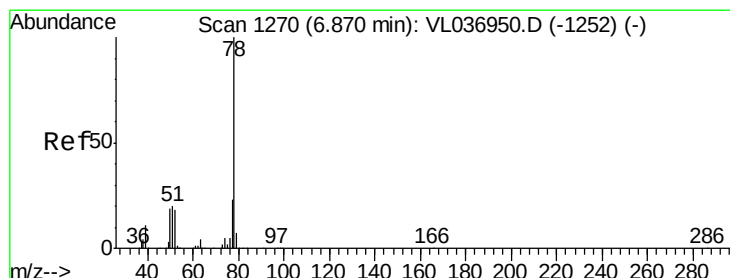
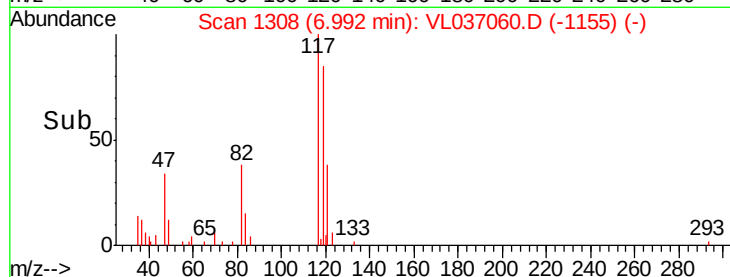
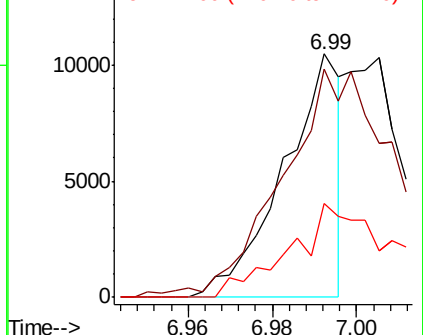
121 38.6 25.8 38.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.072 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

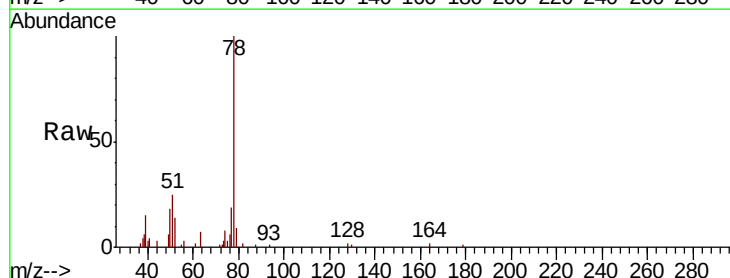
Tgt Ion: 78 Resp: 20364

Ion Ratio Lower Upper

78 100

77 19.4 18.6 28.0

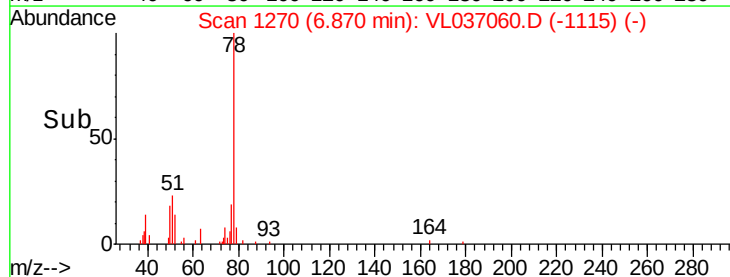
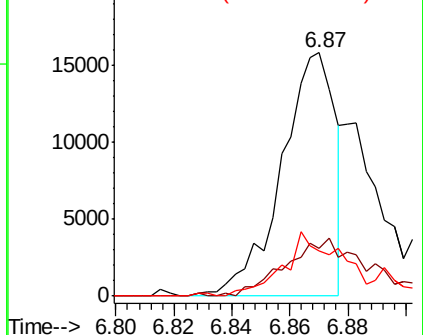
50 18.4 15.0 22.4

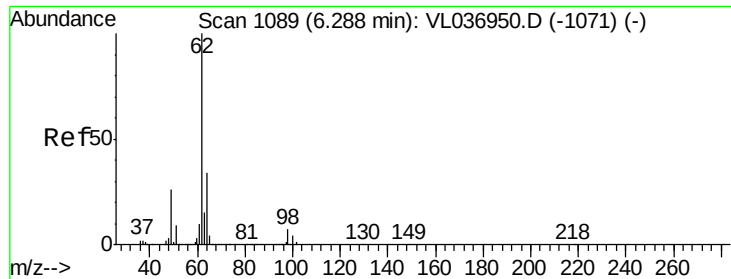


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

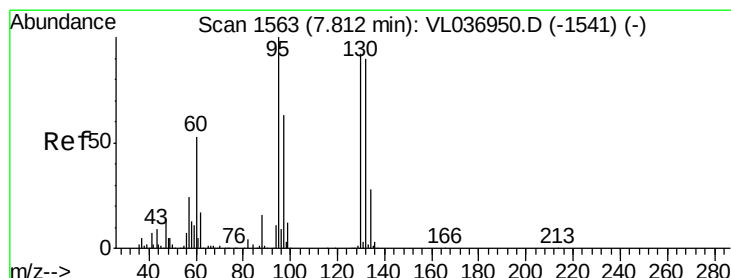
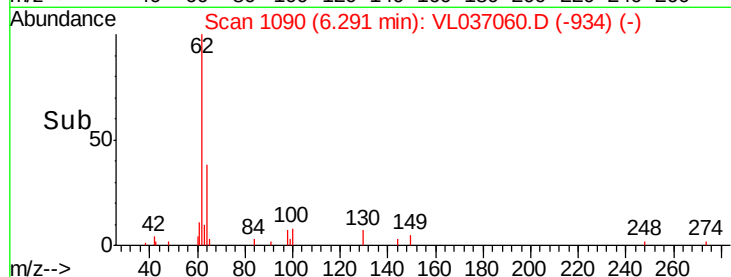
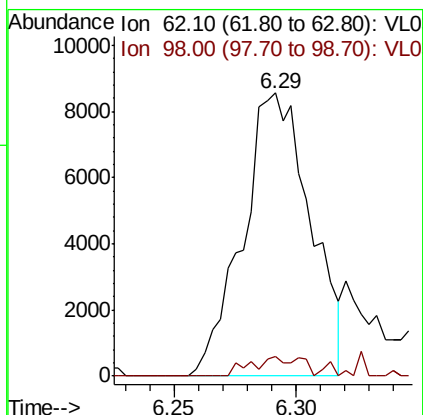
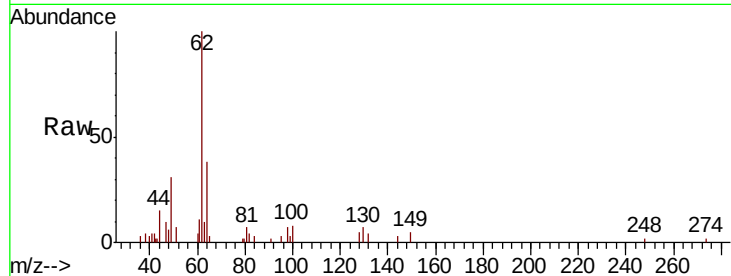




#37
 1,2-Dichloroethane
 Concen: 0.117 ppbv
 RT: 6.29 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VL037060.D
 Acq: 25 May 2021 14:37

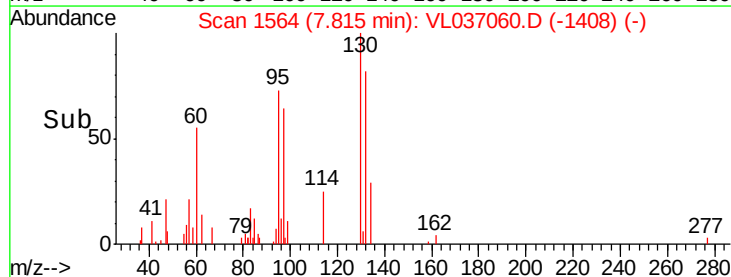
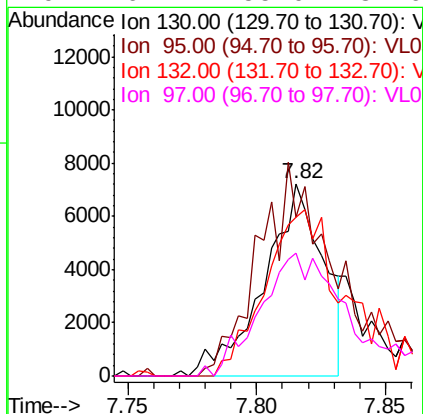
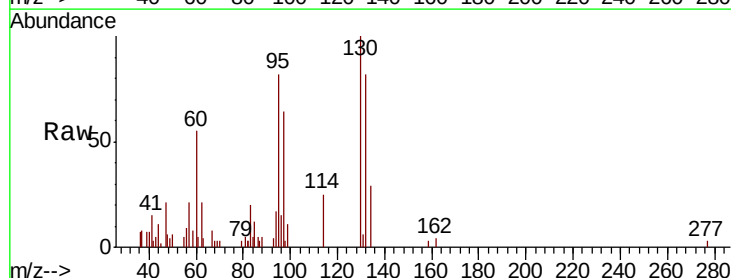
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

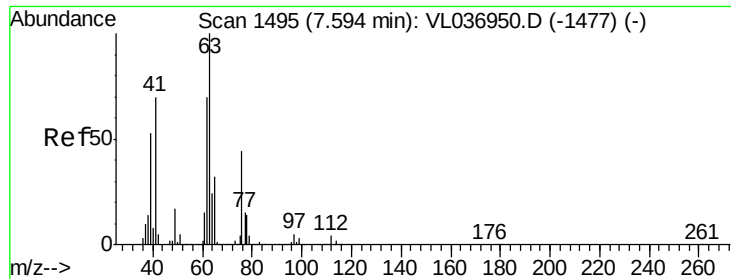
Tot Ion: 62 Resp: 16462
 Ion Ratio Lower Upper
 62 100
 98 0.0 5.5 8.3#



#38
 Trichloroethene
 Concen: 0.095 ppbv
 RT: 7.82 min Scan# 1564
 Delta R.T. 0.00 min
 Lab File: VL037060.D
 Acq: 25 May 2021 14:37

Tgt Ion: 130 Resp: 11545
 Ion Ratio Lower Upper
 130 100
 95 82.2 86.9 130.3#
 132 82.5 78.4 117.6
 97 64.2 55.0 82.6





#39

1,2-Dichloropropane

Concen: 7.164 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.44 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

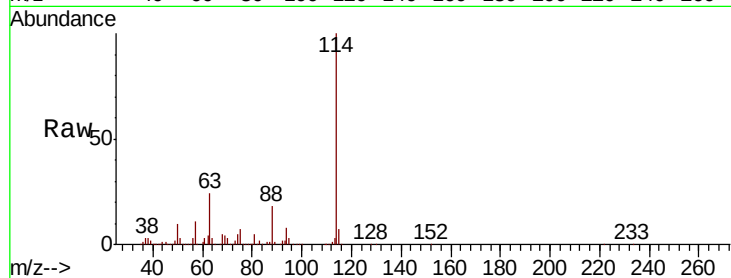
Tot Ion: 63 Resp: 783943

Ion Ratio Lower Upper

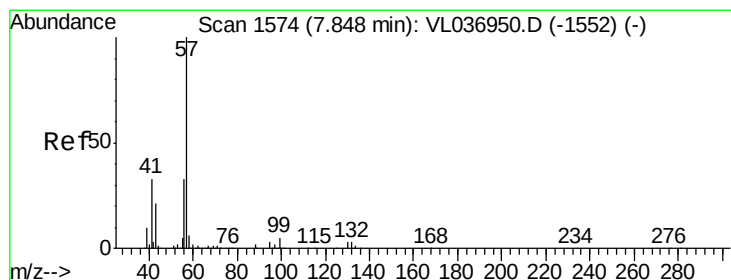
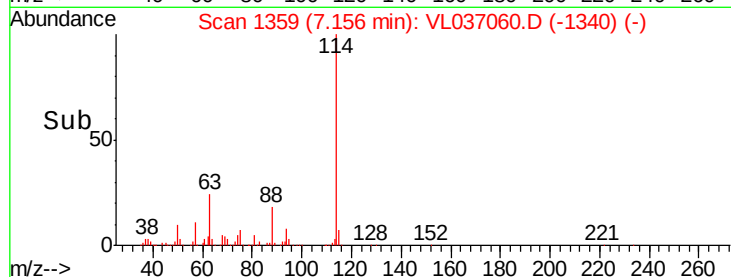
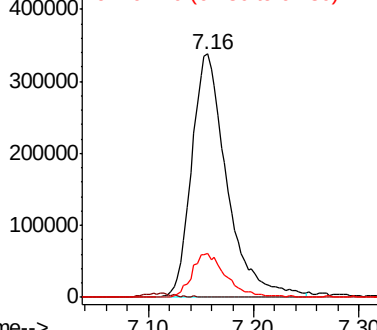
63 100

41 0.0 55.7 83.5#

62 18.0 56.2 84.4#



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



#44

2,2,4-Trimethylpentane

Concen: 0.102 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

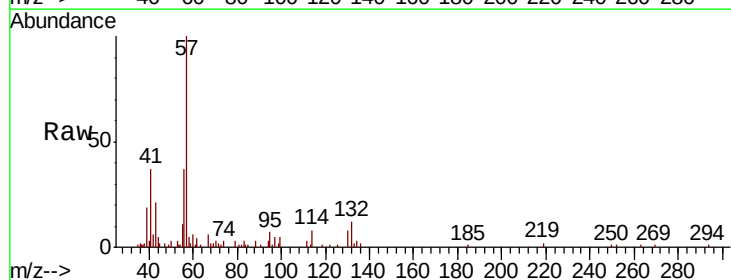
Tgt Ion: 57 Resp: 49799

Ion Ratio Lower Upper

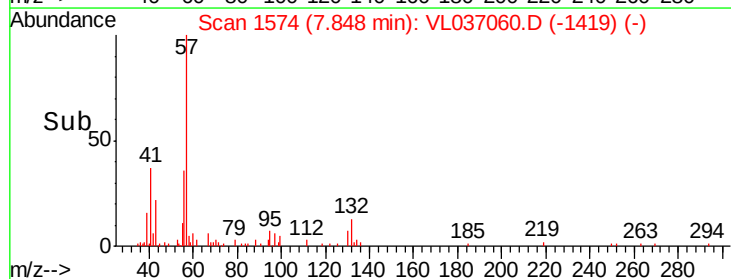
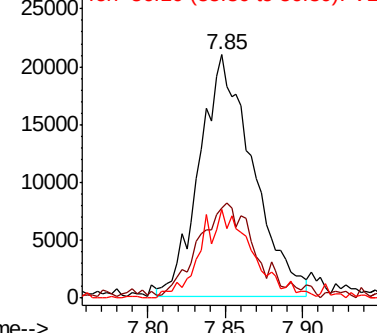
57 100

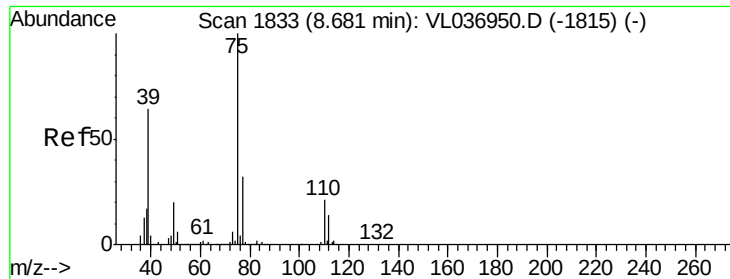
41 45.8 27.0 40.4#

56 35.9 25.4 38.2



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: 0.032 ppbv

RT: 8.69 min Scan# 1835

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

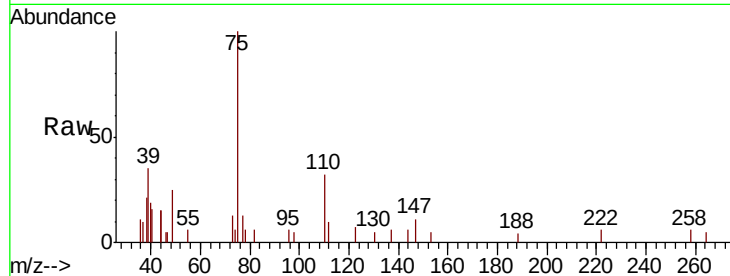
Tot Ion: 75 Resp: 3214

Ion Ratio Lower Upper

75 100

39 0.0 51.5 77.3#

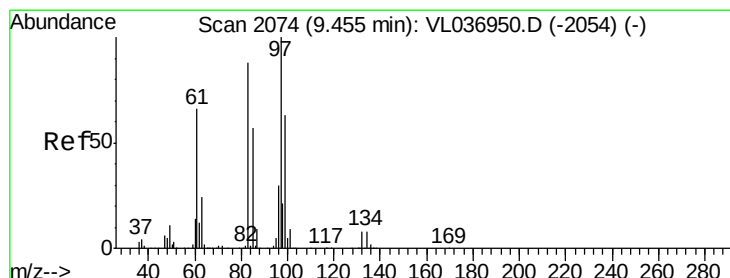
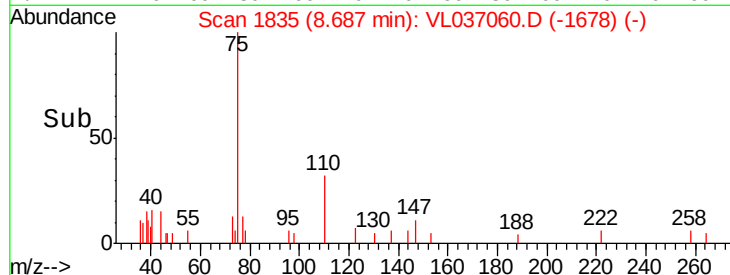
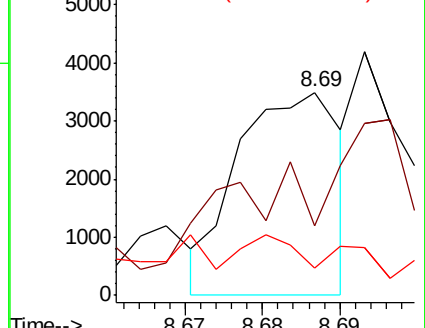
77 0.0 25.9 38.9#



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



#47

1,1,2-Trichloroethane

Concen: 0.040 ppbv

RT: 9.46 min Scan# 2074

Delta R.T. -0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Tgt Ion: 97 Resp: 4638

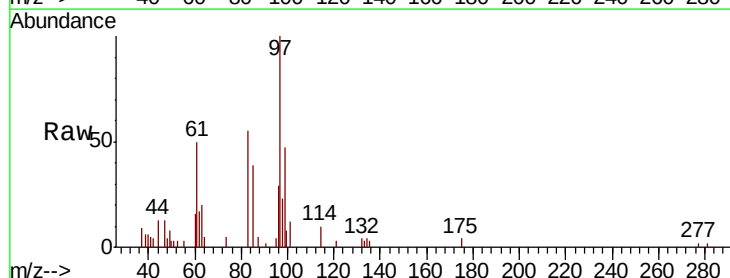
Ion Ratio Lower Upper

97 100

83 28.6 70.4 105.6#

85 0.0 45.5 68.3#

99 7.1 50.2 75.2#

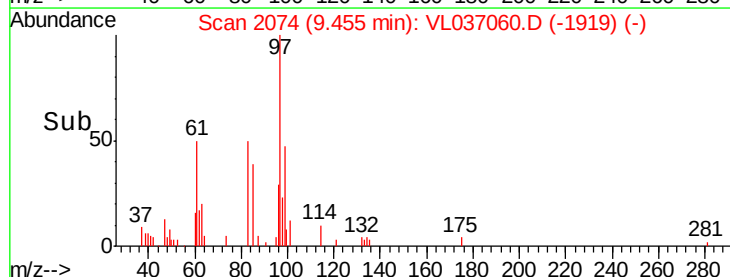
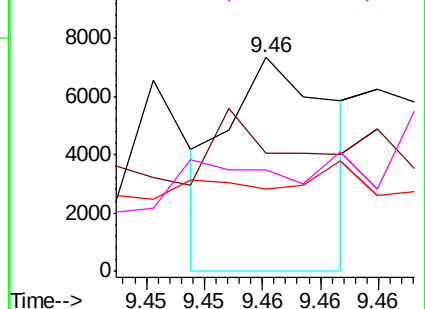


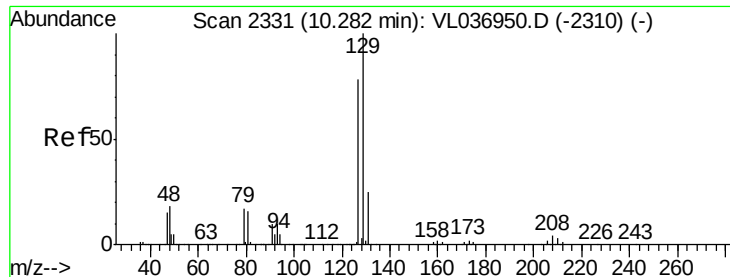
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0





#48

Dibromochloromethane

Concen: 0.038 ppbv

RT: 10.28 min Scan# 2329

Delta R.T. -0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

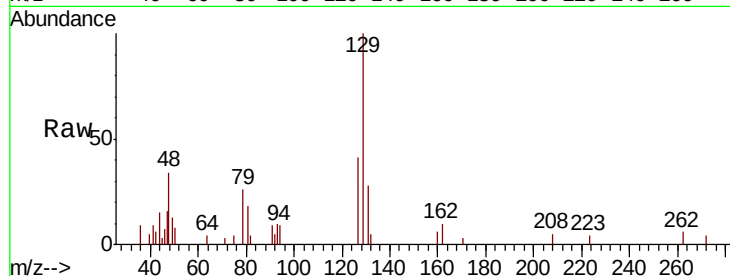
MDL-AIR-03-QT2-2021

Tot Ion:129 Resp: 7124

Ion Ratio Lower Upper

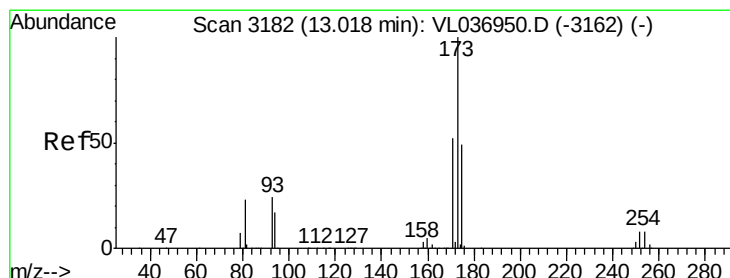
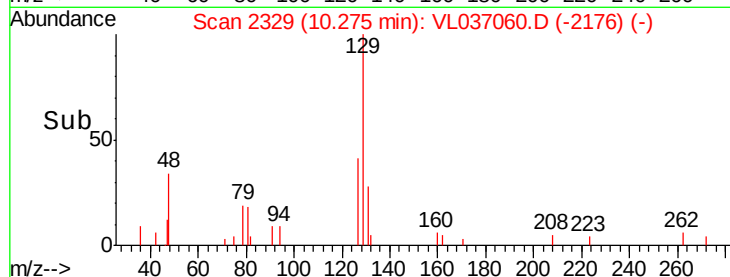
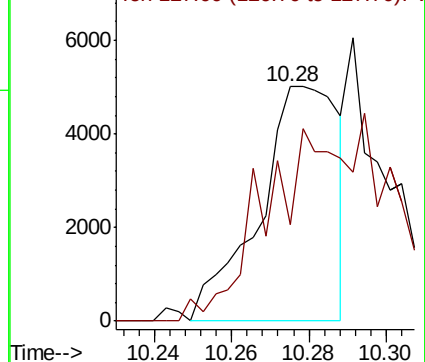
129 100

127 0.0 39.3 117.8#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#49

Bromoform

Concen: 0.038 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

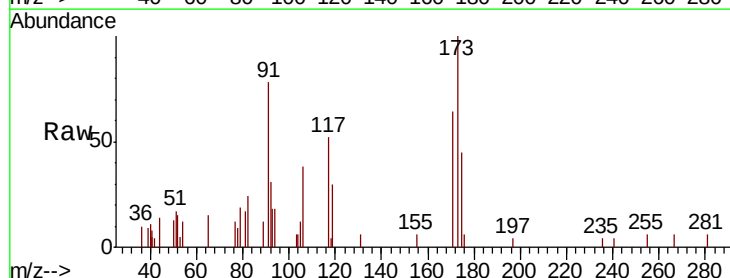
Tgt Ion:173 Resp: 5895

Ion Ratio Lower Upper

173 100

175 0.0 40.4 60.6#

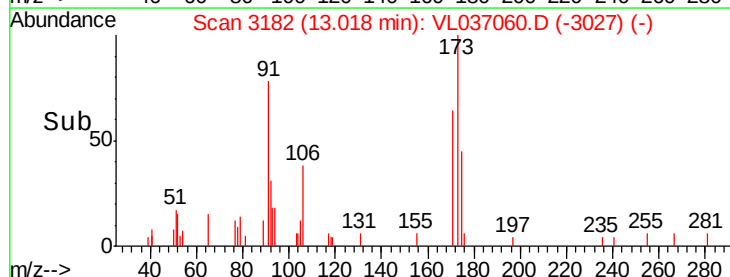
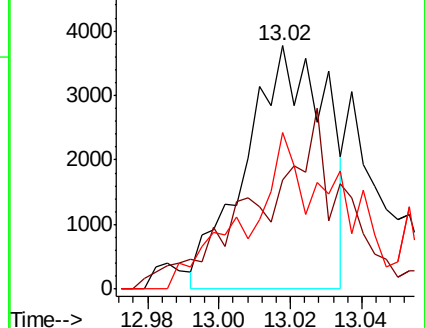
171 87.2 42.6 64.0#

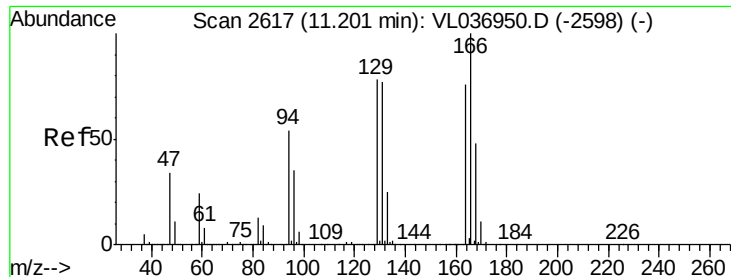


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V





#52

Tetrachloroethene

Concen: 0.058 ppbv

RT: 11.20 min Scan# 2617

Delta R.T. -0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion:164 Resp: 6533

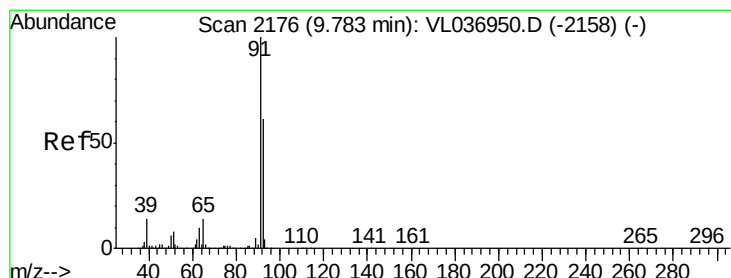
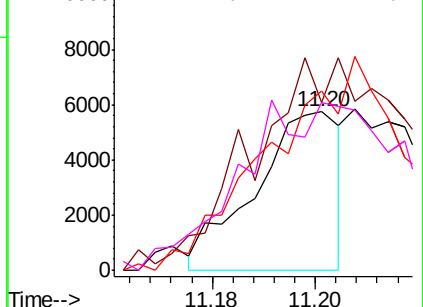
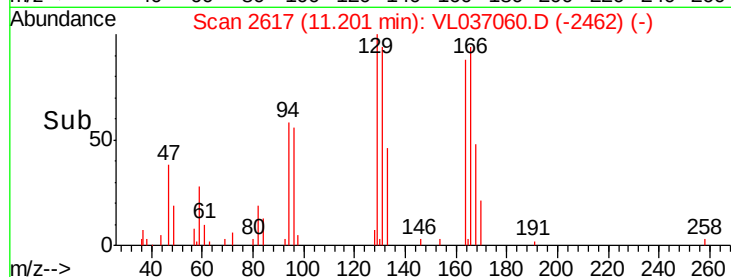
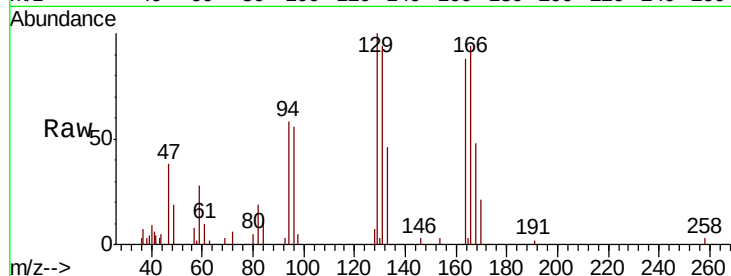
Ion Ratio Lower Upper

164 100

166 92.3 105.5 158.3#

129 113.0 81.8 122.8

131 91.4 81.2 121.8



#53

Toluene

Concen: 0.045 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037060.D

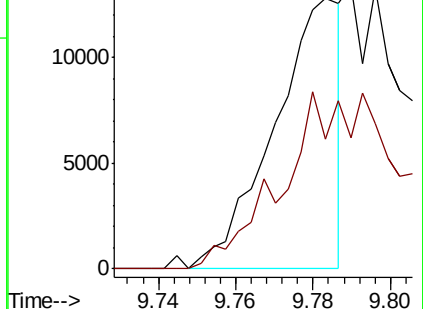
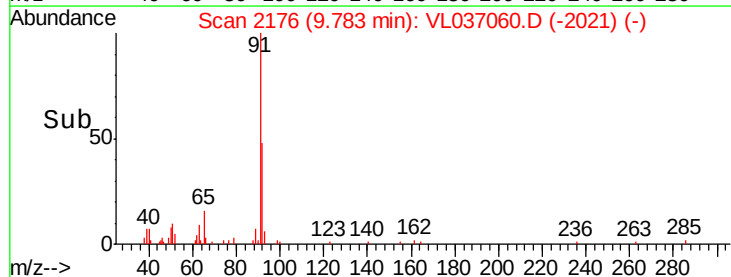
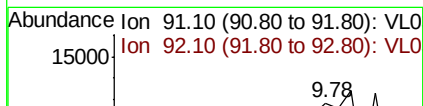
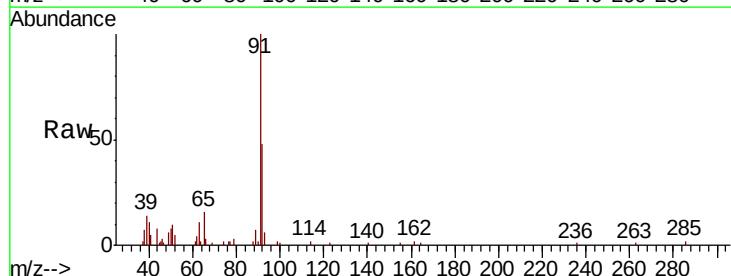
Acq: 25 May 2021 14:37

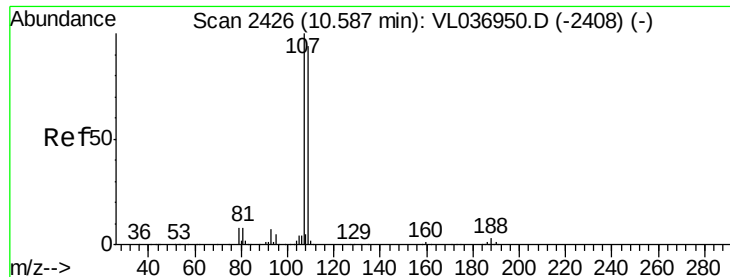
Tgt Ion: 91 Resp: 15239

Ion Ratio Lower Upper

91 100

92 128.5 49.5 74.3#





#54

1,2-Dibromoethane

Concen: 0.038 ppbv

RT: 10.60 min Scan# 2430

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

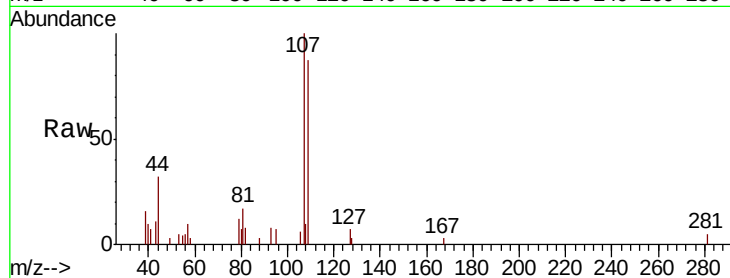
MDL-AIR-03-QT2-2021

Tot Ion:107 Resp: 6250

Ion Ratio Lower Upper

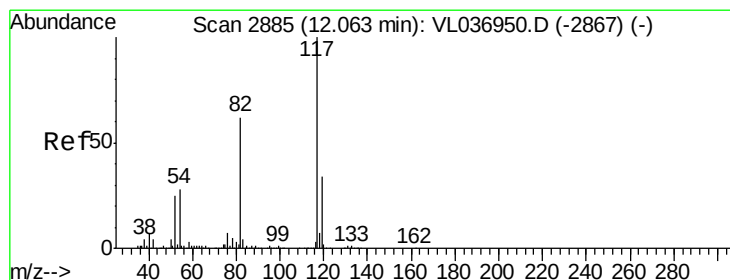
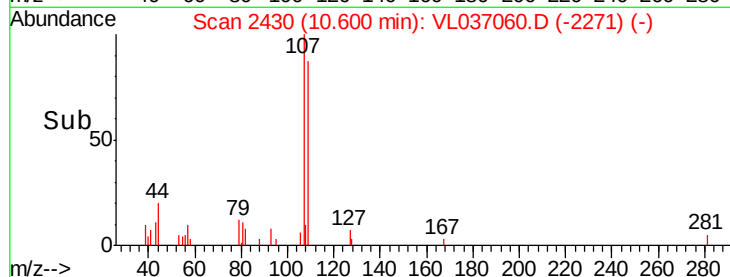
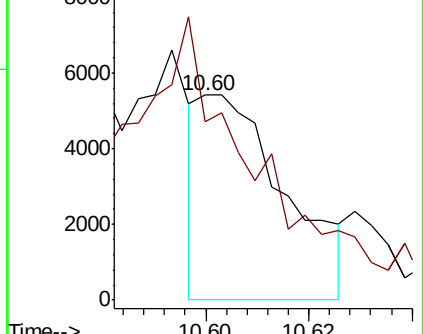
107 100

109 84.5 75.0 112.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

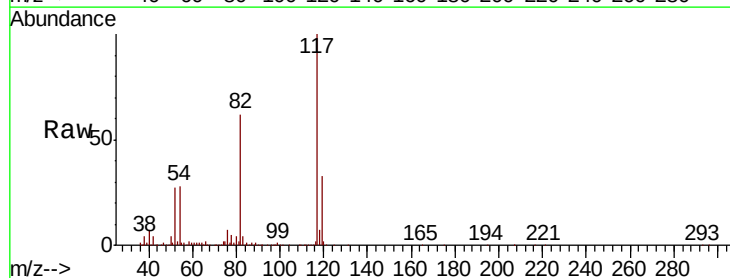
Tgt Ion:117 Resp: 2858503

Ion Ratio Lower Upper

117 100

82 64.3 52.6 79.0

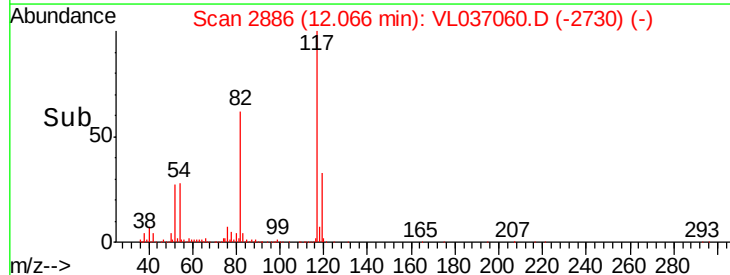
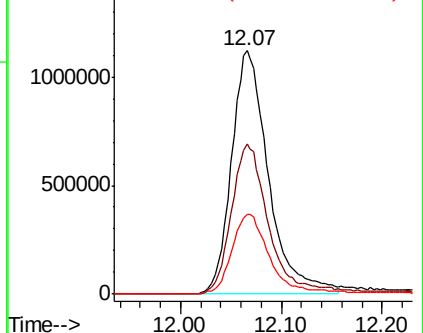
119 33.8 46.6 70.0#

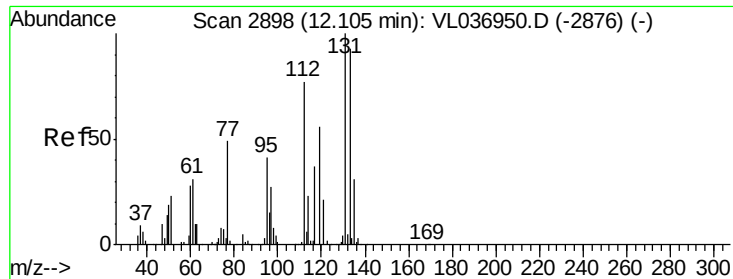


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#56

1,1,1,2-Tetrachloroethane

Concen: 0.072 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

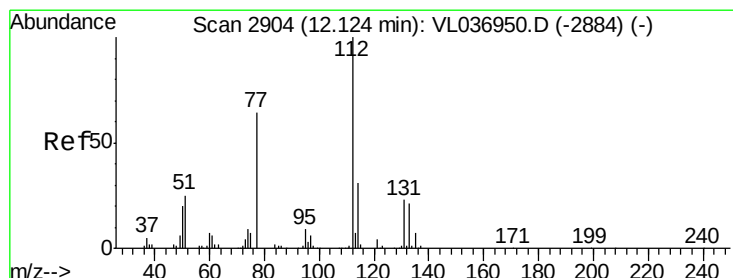
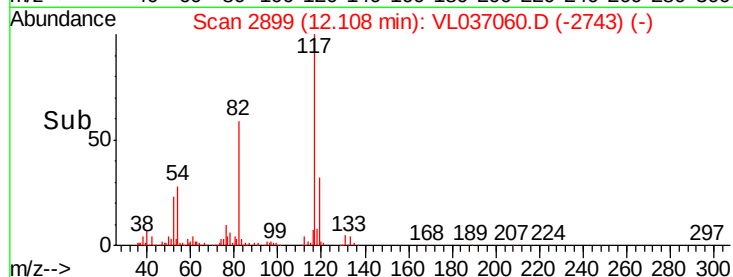
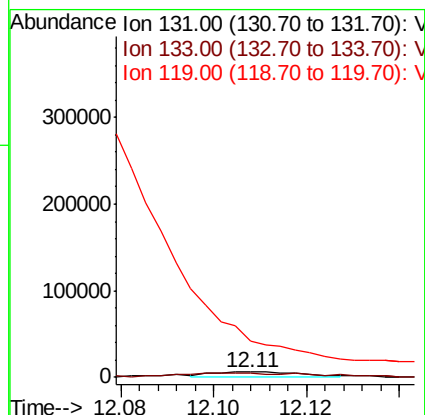
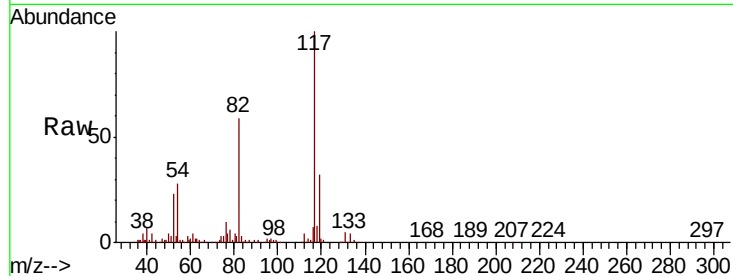
Tot Ion:131 Resp: 8623

Ion Ratio Lower Upper

131 100

133 154.1 76.9 115.3#

119 0.0 120.2 180.4#



#57

Chlorobenzene

Concen: 0.031 ppbv

RT: 12.12 min Scan# 2904

Delta R.T. -0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

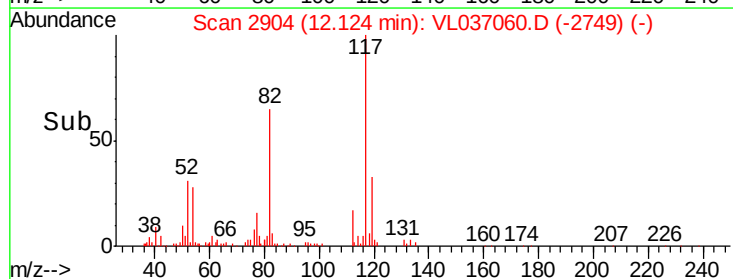
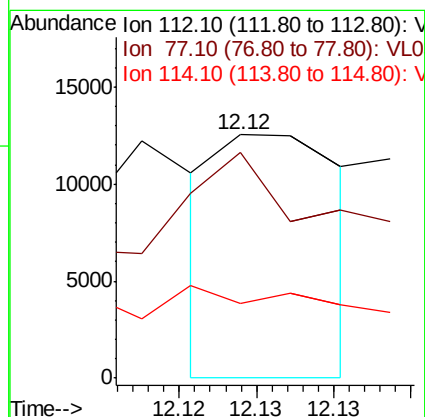
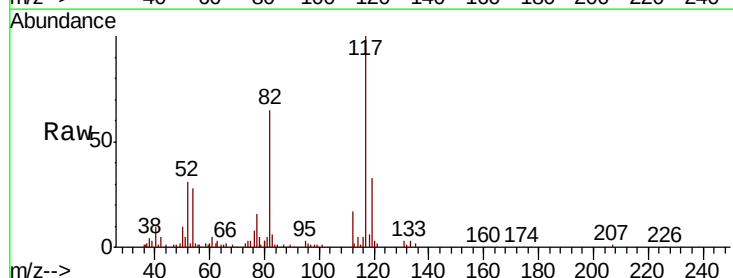
Tgt Ion:112 Resp: 6906

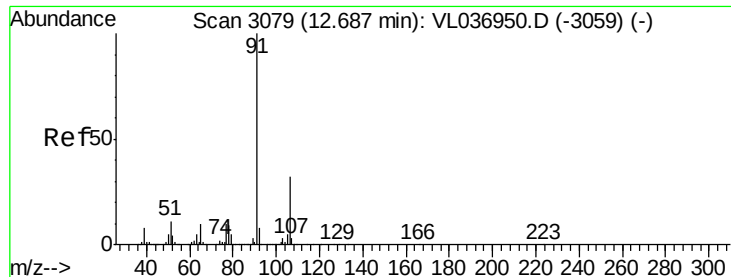
Ion Ratio Lower Upper

112 100

77 149.8 51.0 76.6#

114 4.9 28.3 34.5#





#58

Ethyl Benzene

Concen: 0.060 ppbv

RT: 12.69 min Scan# 3081

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

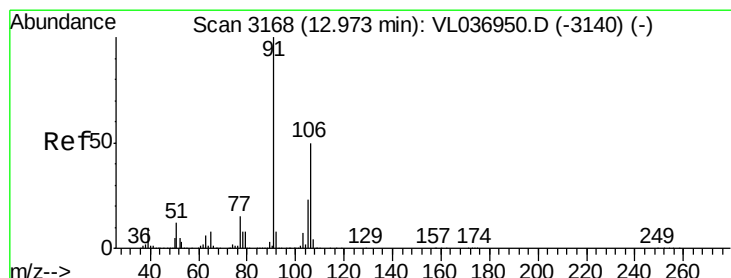
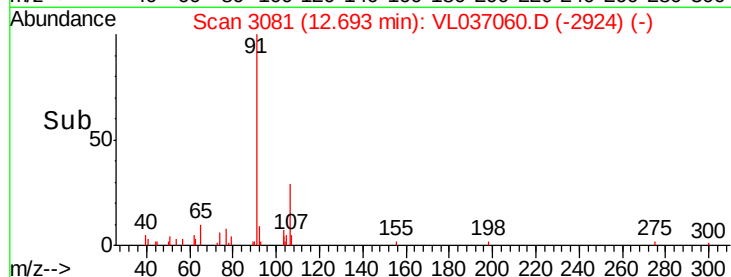
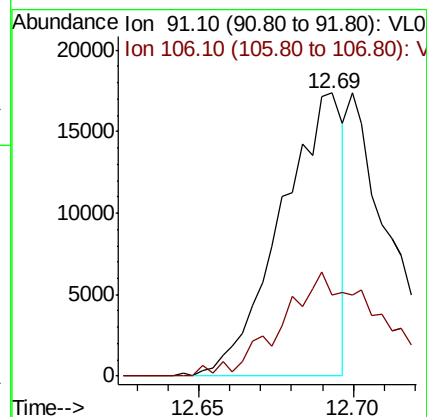
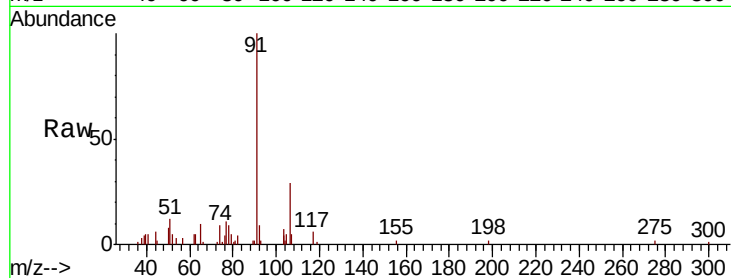
MDL-AIR-03-QT2-2021

Tot Ion: 91 Resp: 24042

Ion Ratio Lower Upper

91 100

106 28.9 25.6 38.4



#59

m/p-Xylene

Concen: 0.093 ppbv

RT: 12.98 min Scan# 3170

Delta R.T. 0.01 min

Lab File: VL037060.D

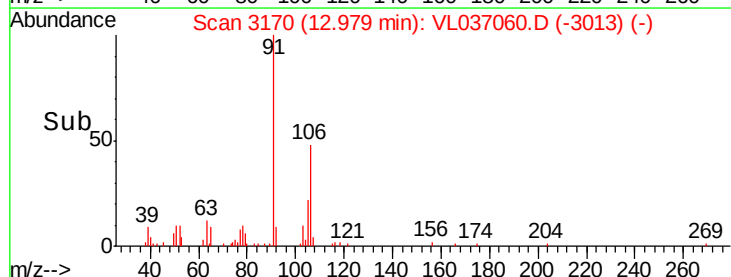
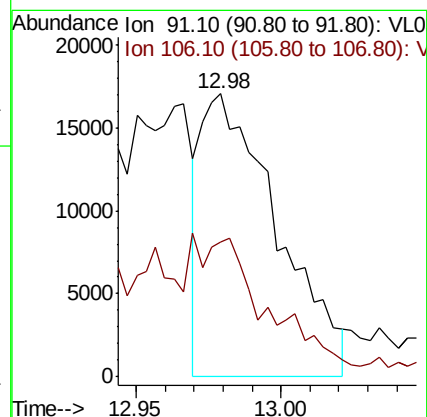
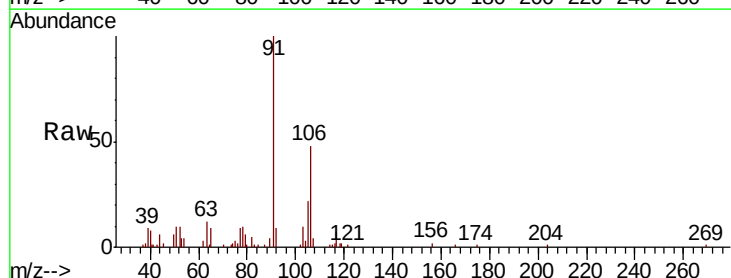
Acq: 25 May 2021 14:37

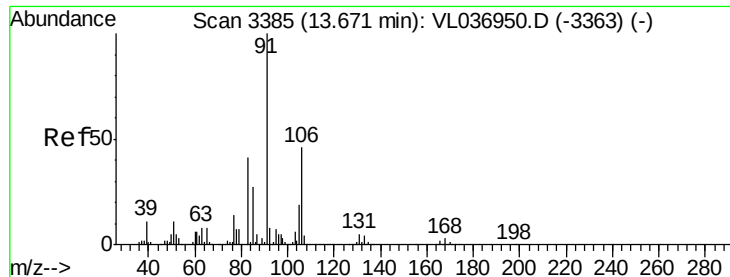
Tgt Ion: 91 Resp: 31066

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#





#60

o-Xylene

Concen: 0.103 ppbv

RT: 13.67 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

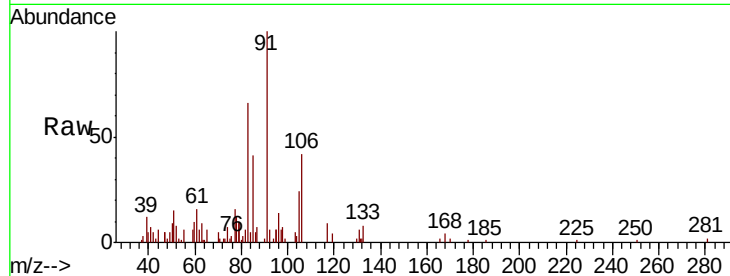
MDL-AIR-03-QT2-2021

Tot Ion: 91 Resp: 32744

Ion Ratio Lower Upper

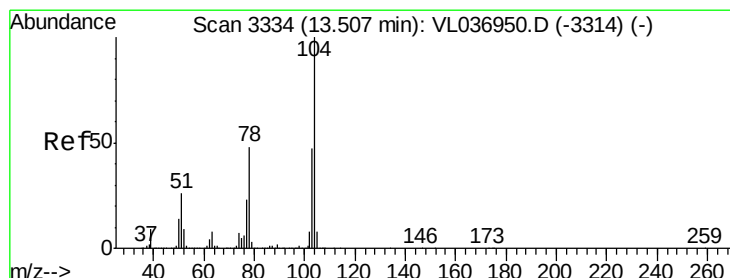
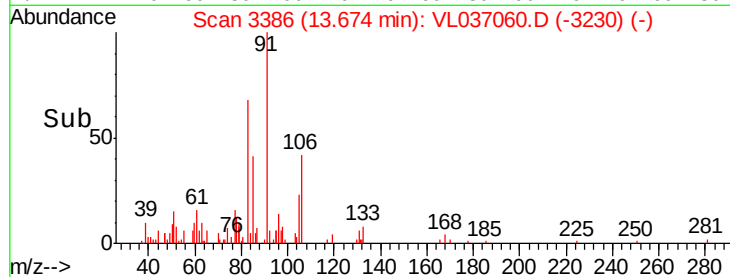
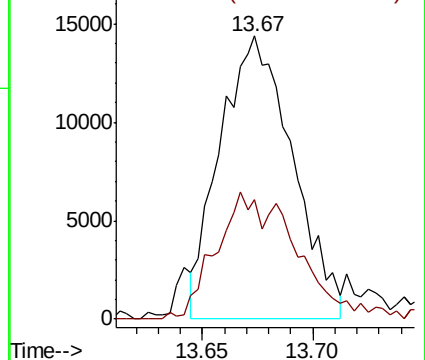
91 100

106 49.6 23.4 70.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 0.037 ppbv

RT: 13.52 min Scan# 3337

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

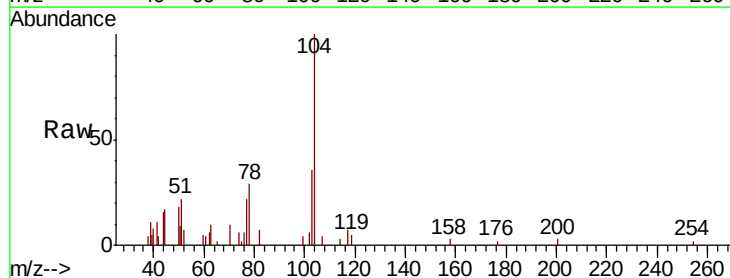
Tgt Ion:104 Resp: 6610

Ion Ratio Lower Upper

104 100

78 133.5 39.0 58.6#

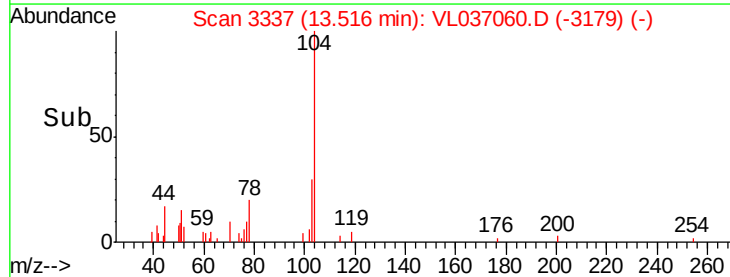
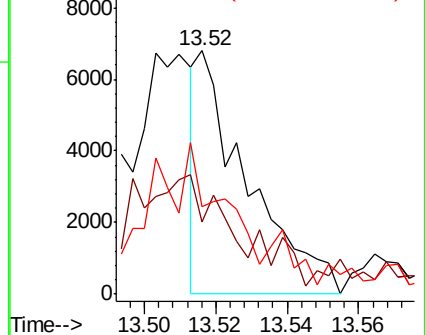
103 134.9 38.0 57.0#

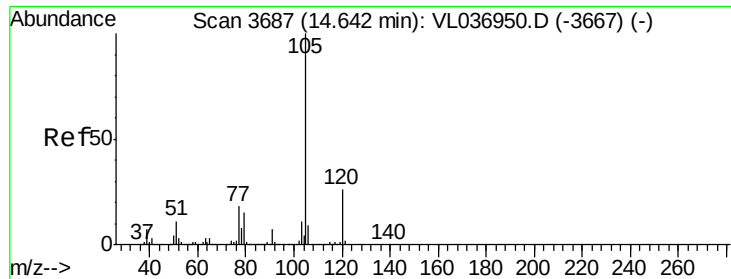


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V





#62

Isopropylbenzene

Concen: 0.062 ppbv

RT: 14.65 min Scan# 3690

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

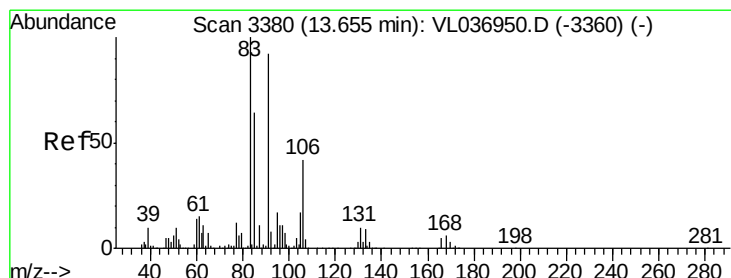
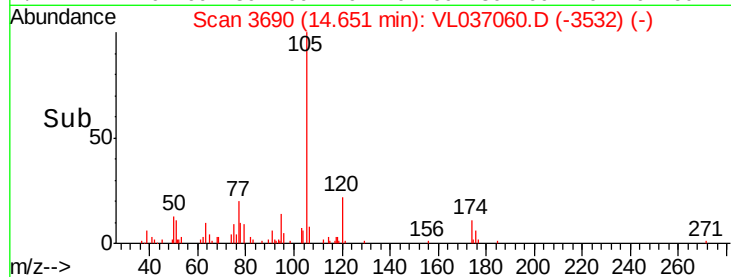
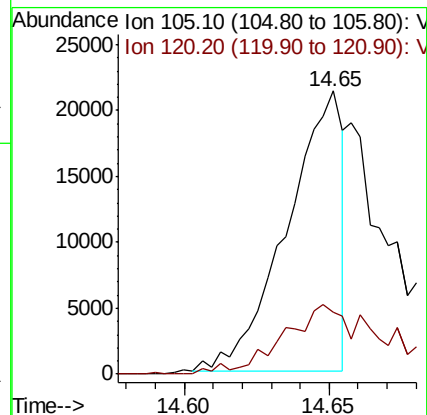
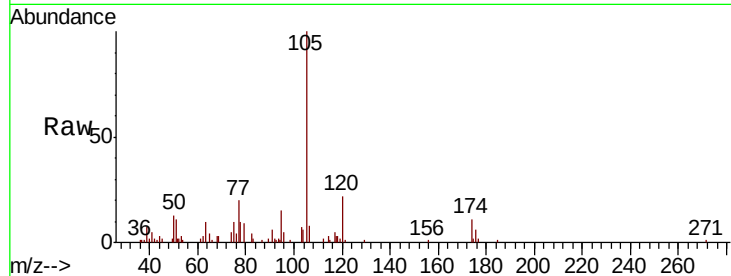
MDL-AIR-03-QT2-2021

Tot Ion:105 Resp: 28325

Ion Ratio Lower Upper

105 100

120 50.8 21.7 32.5#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.045 ppbv

RT: 13.66 min Scan# 3382

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

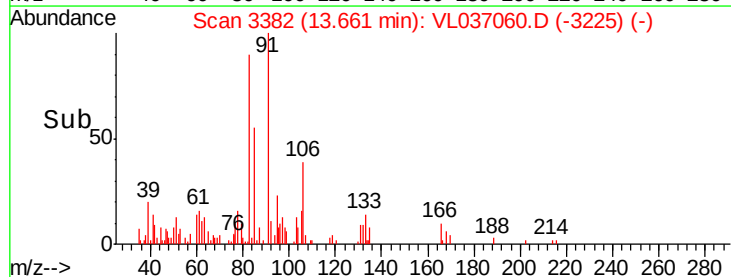
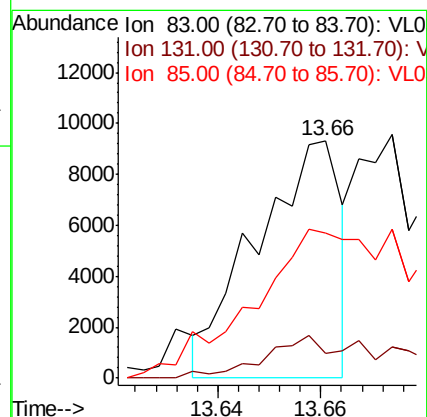
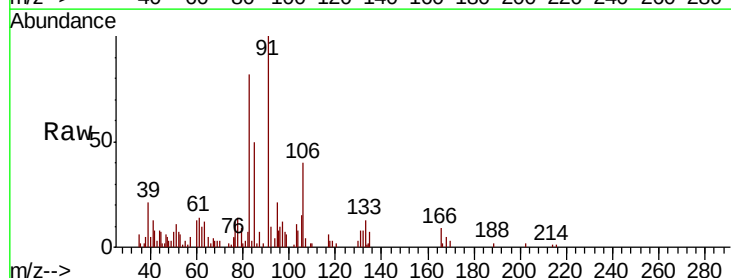
Tgt Ion: 83 Resp: 10606

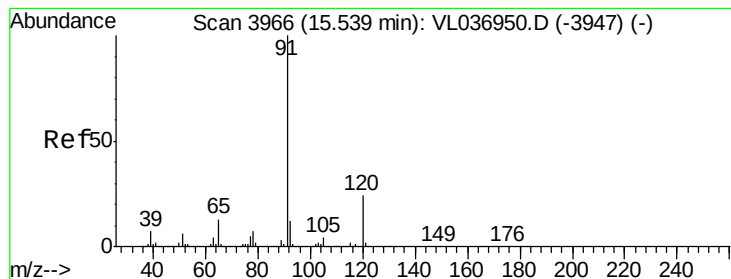
Ion Ratio Lower Upper

83 100

131 29.4 5.0 15.0#

85 163.4 32.9 98.6#





#64

n-propylbenzene

Concen: 0.040 ppbv

RT: 15.55 min Scan# 3969

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

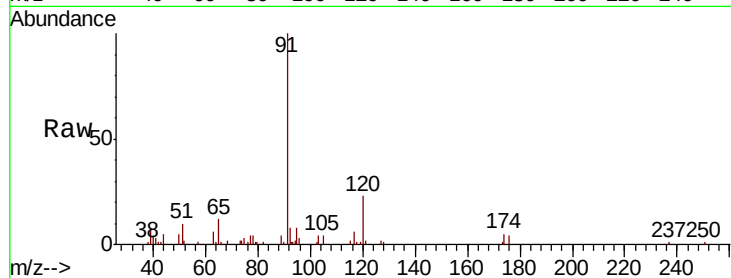
MDL-AIR-03-QT2-2021

Tot Ion:120 Resp: 4759

Ion Ratio Lower Upper

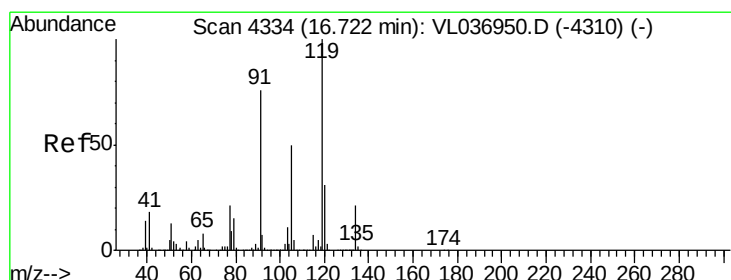
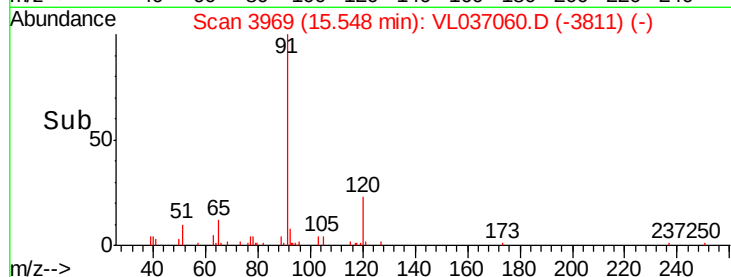
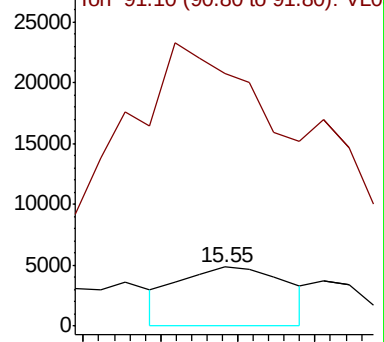
120 100

91 1385.7 343.8 515.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.053 ppbv

RT: 16.73 min Scan# 4336

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

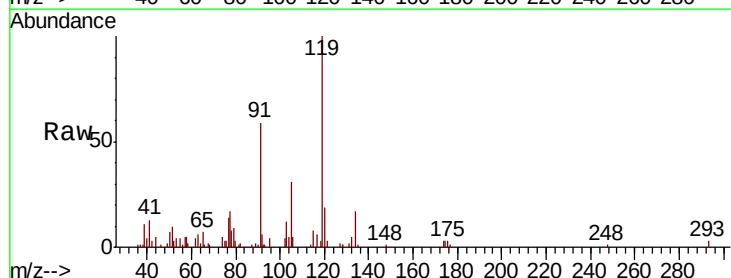
Tgt Ion:119 Resp: 21754

Ion Ratio Lower Upper

119 100

91 184.1 61.9 92.9#

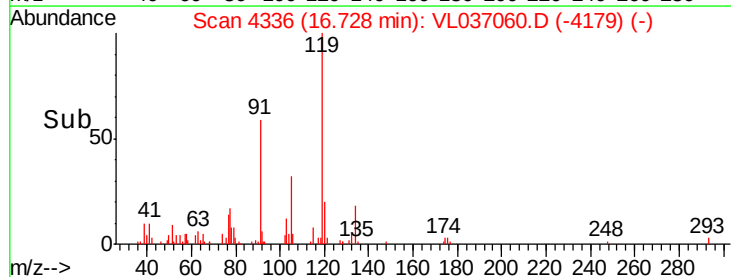
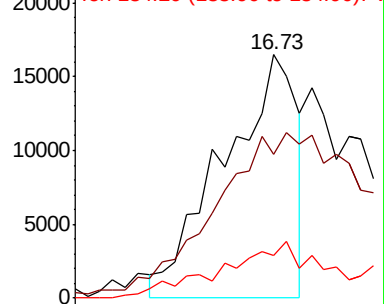
134 48.0 16.2 24.4#

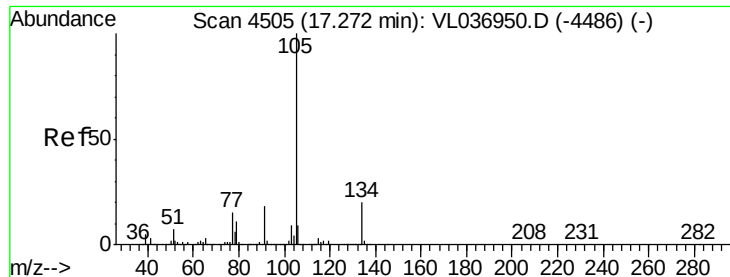


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.081 ppbv

RT: 17.28 min Scan# 4509

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

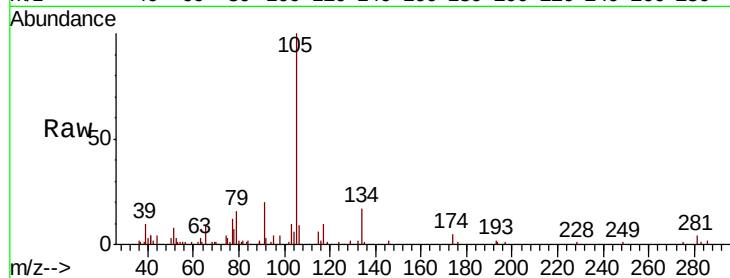
MDL-AIR-03-QT2-2021

Tot Ion:105 Resp: 45622

Ion Ratio Lower Upper

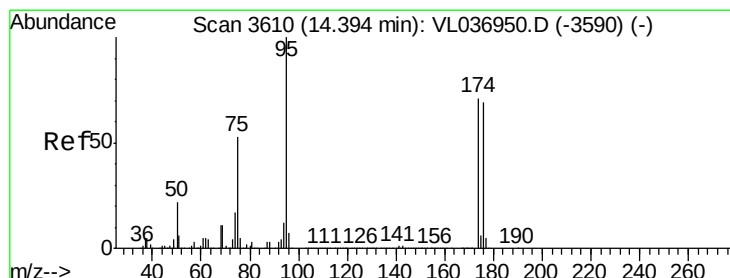
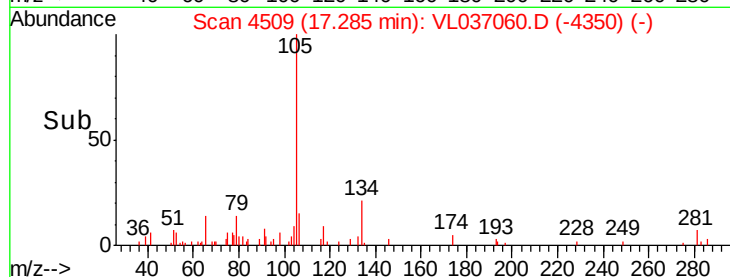
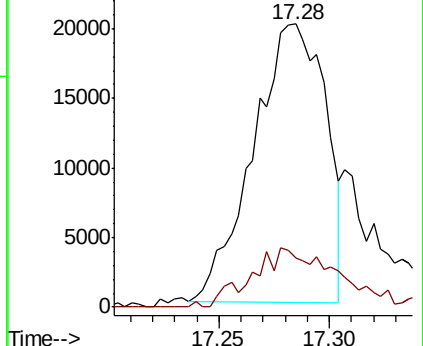
105 100

134 26.9 15.6 23.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.440 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. 0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

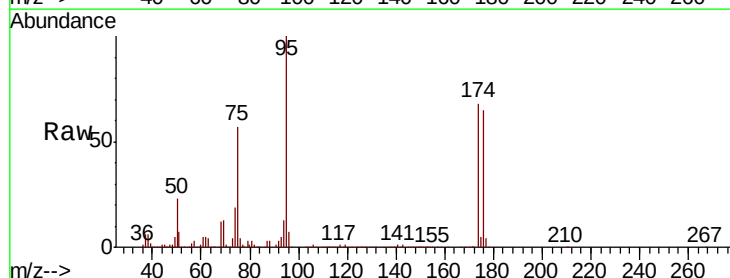
Tgt Ion: 95 Resp: 2027151

Ion Ratio Lower Upper

95 100

174 77.8 58.4 87.6

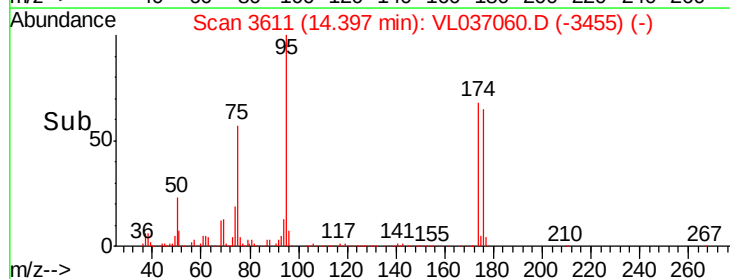
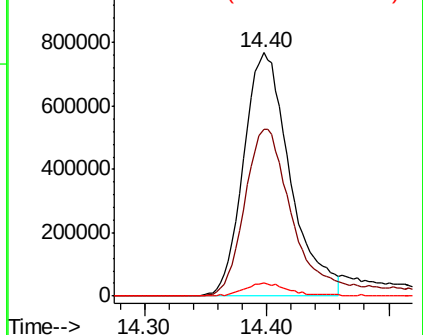
175 5.7 4.4 6.6

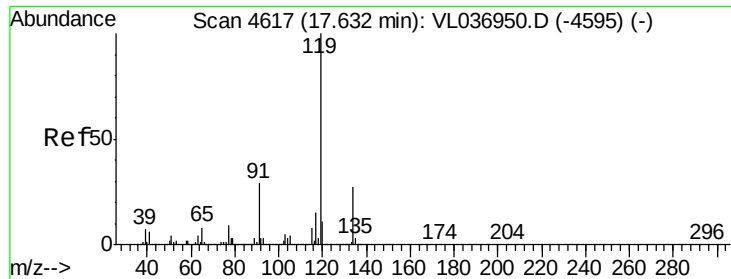


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

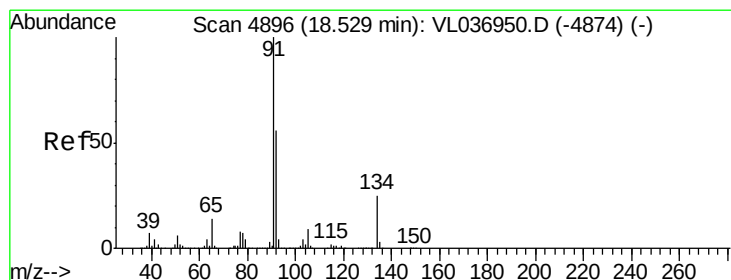
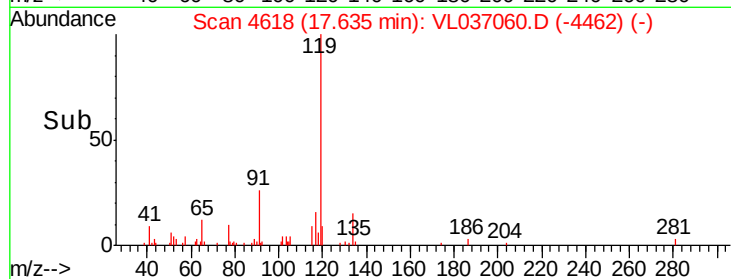
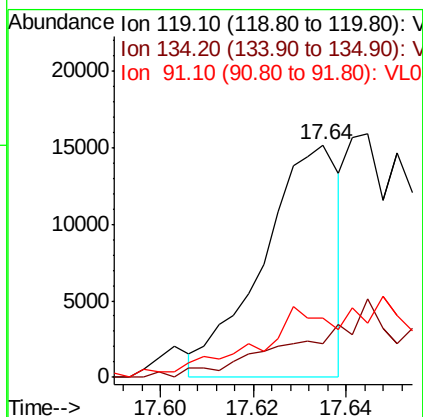
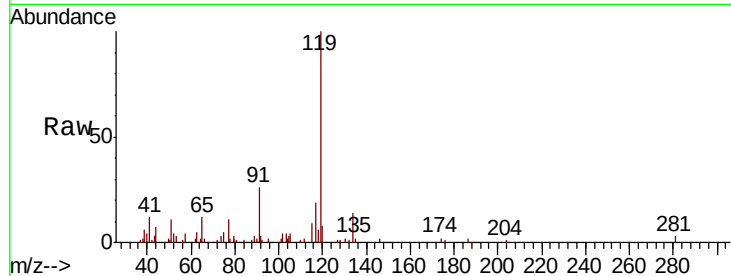




#69
 p-Isopropyltoluene
 Concen: 0.036 ppbv
 RT: 17.64 min Scan# 4618
 Delta R.T. 0.00 min
 Lab File: VL037060.D
 Acq: 25 May 2021 14:37

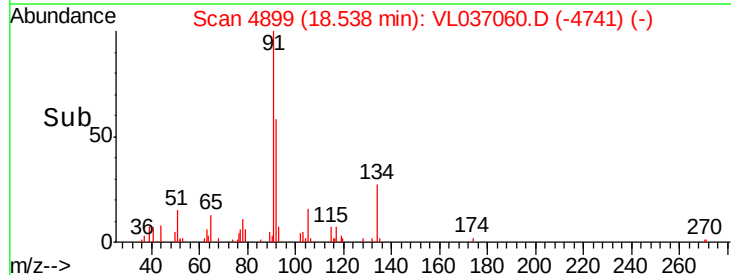
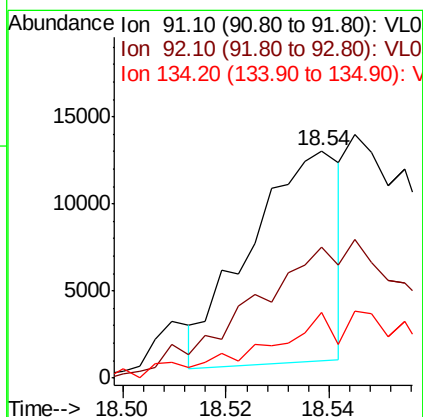
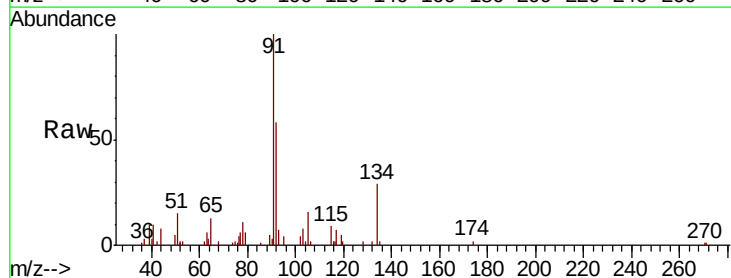
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

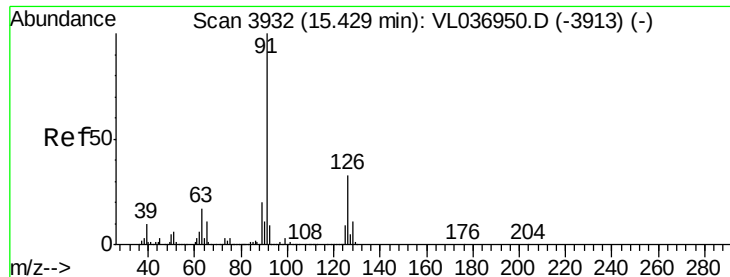
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	21.2	31.8#
91	0.0	22.2	33.4#



#70
 n-Butylbenzene
 Concen: 0.032 ppbv
 RT: 18.54 min Scan# 4899
 Delta R.T. 0.01 min
 Lab File: VL037060.D
 Acq: 25 May 2021 14:37

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	44.6	66.8#
134	0.0	20.2	30.2#

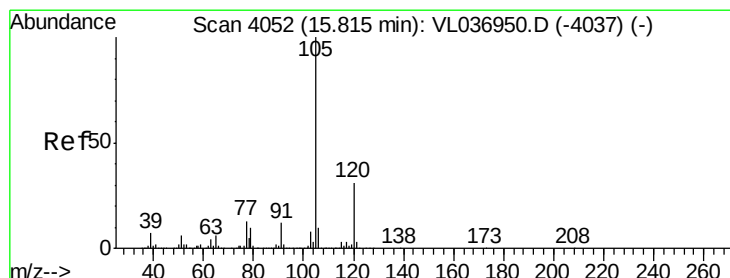
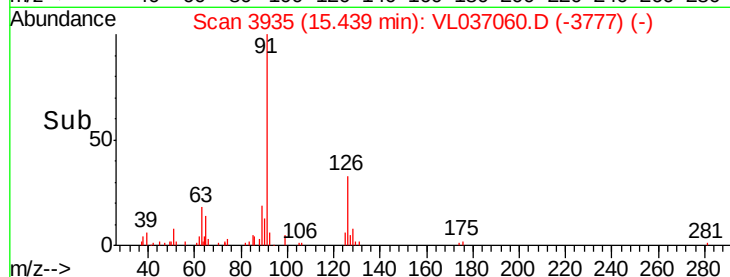
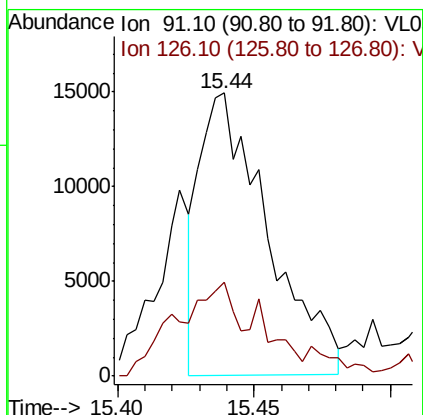
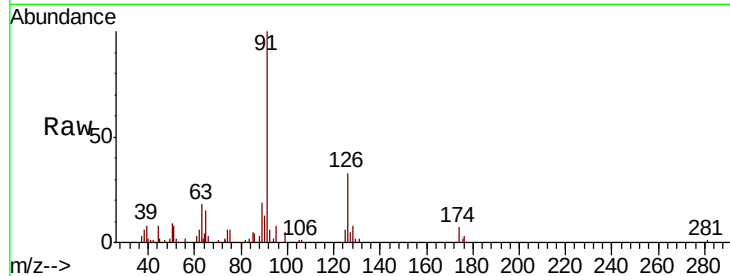




#71
 2-Chlorotoluene
 Concen: 0.078 ppbv
 RT: 15.44 min Scan# 3935
 Delta R.T. 0.01 min
 Lab File: VL037060.D
 Acq: 25 May 2021 14:37

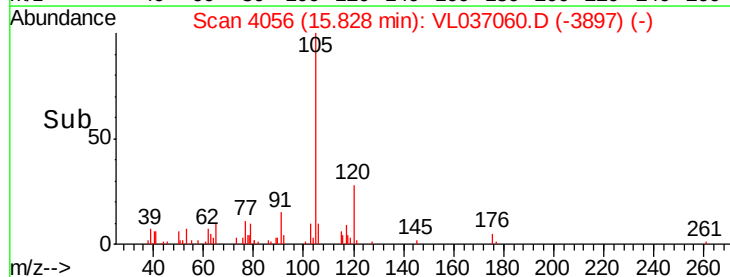
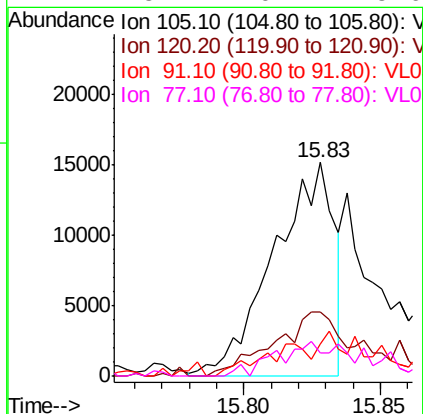
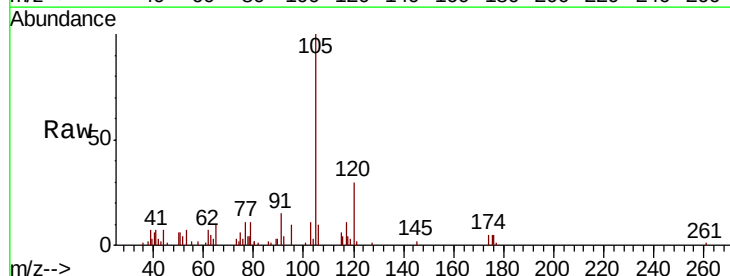
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

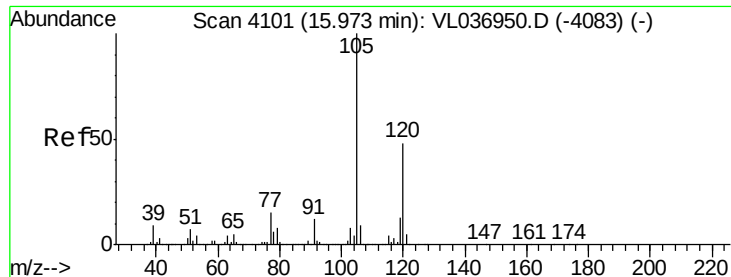
Tot Ion: 91 Resp: 25718
 Ion Ratio Lower Upper
 91 100
 126 44.8 13.1 52.5



#72
 4-Ethyltoluene
 Concen: 0.062 ppbv
 RT: 15.83 min Scan# 4056
 Delta R.T. 0.01 min
 Lab File: VL037060.D
 Acq: 25 May 2021 14:37

Tgt Ion: 105 Resp: 23282
 Ion Ratio Lower Upper
 105 100
 120 44.5 24.6 37.0#
 91 34.6 9.8 14.6#
 77 25.4 10.4 15.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.042 ppbv

RT: 15.98 min Scan# 4103

Delta R.T. 0.01 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

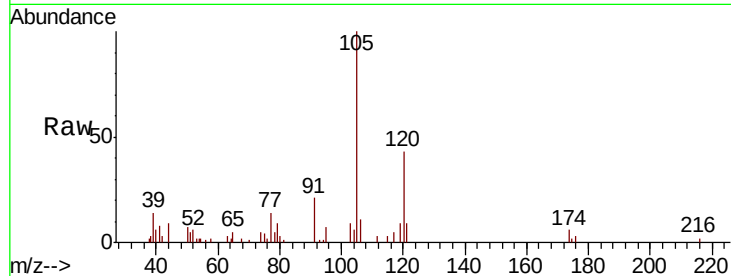
MDL-AIR-03-QT2-2021

Tot Ion:105 Resp: 15041

Ion Ratio Lower Upper

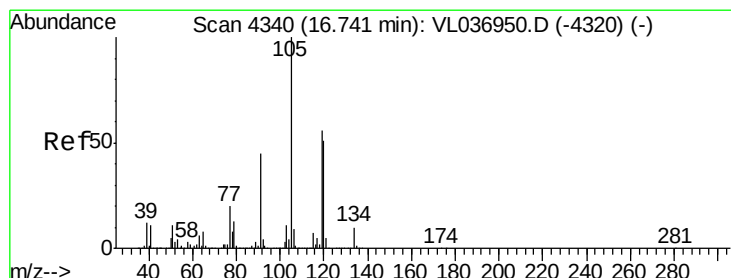
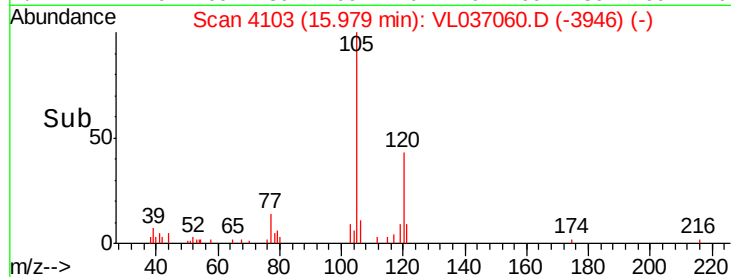
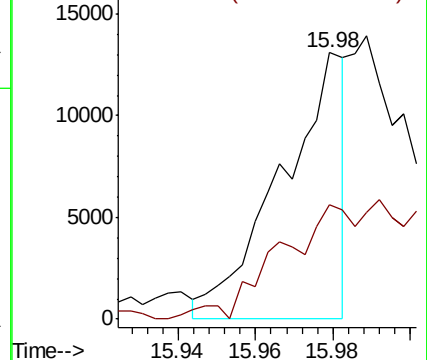
105 100

120 42.2 38.6 58.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.035 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Tgt Ion:105 Resp: 12880

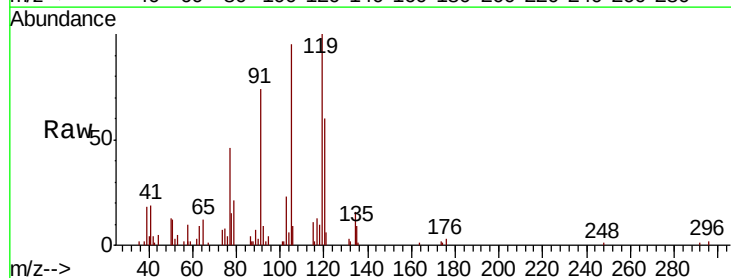
Ion Ratio Lower Upper

105 100

120 52.2 40.6 61.0

91 41.8 37.4 56.0

77 35.3 16.2 24.4#

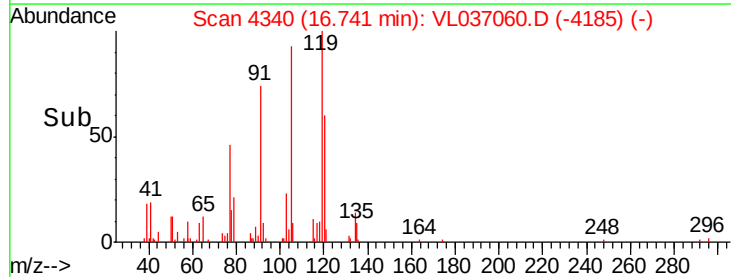
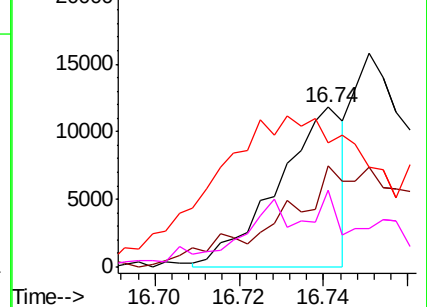


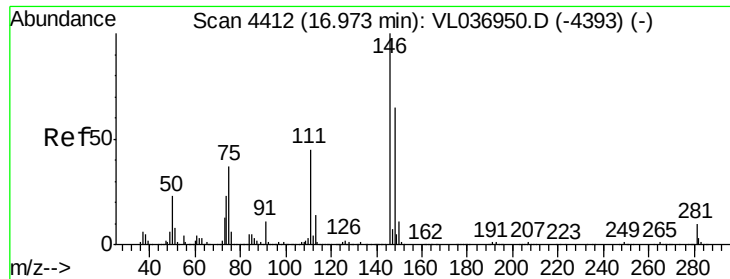
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

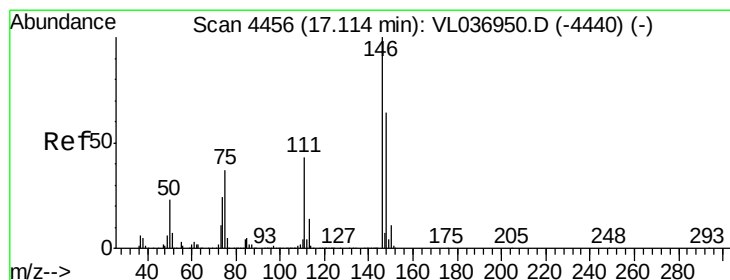
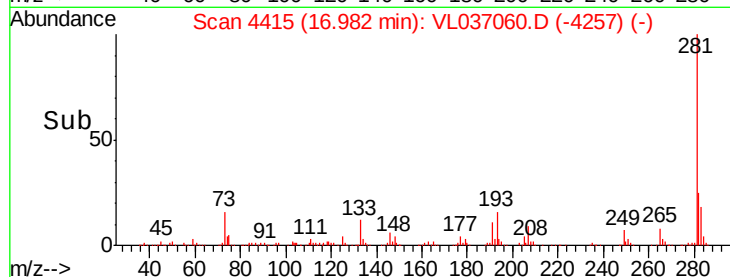
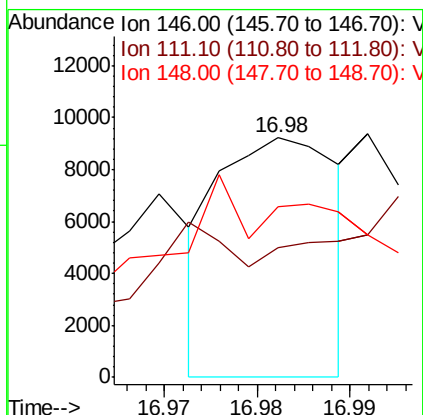
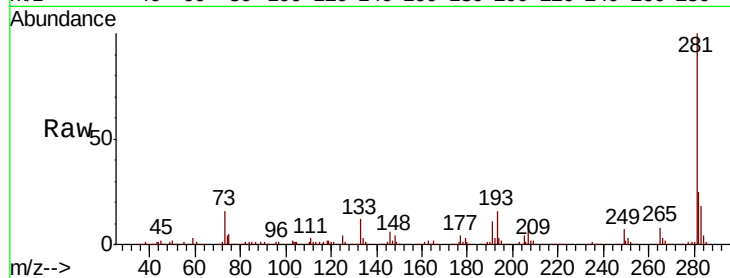




#75
 1,3-Dichlorobenzene
 Concen: 0.037 ppbv
 RT: 16.98 min Scan# 4415
 Delta R.T. 0.01 min
 Lab File: VL037060.D
 Acq: 25 May 2021 14:37

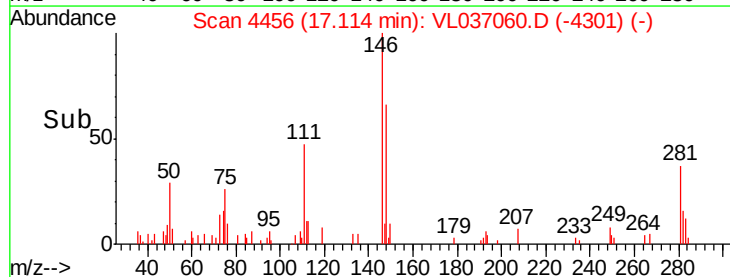
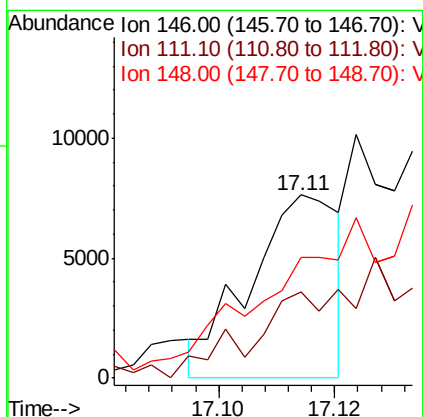
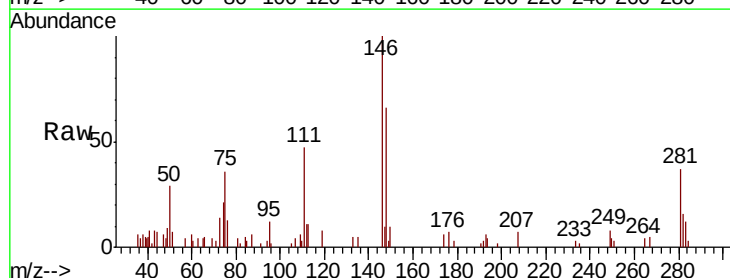
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

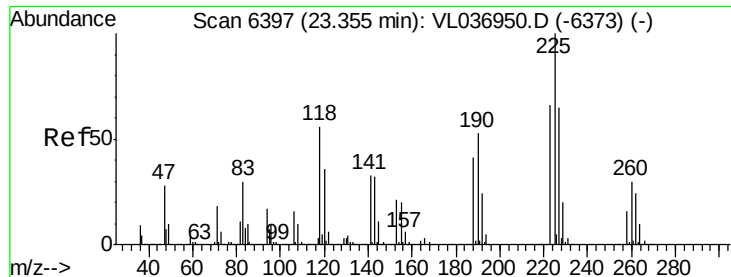
Tot Ion:146 Resp: 8252
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.2 66.6#
 148 236.1 32.3 96.8#



#76
 1,4-Dichlorobenzene
 Concen: 0.036 ppbv
 RT: 17.11 min Scan# 4456
 Delta R.T. -0.00 min
 Lab File: VL037060.D
 Acq: 25 May 2021 14:37

Tgt Ion:146 Resp: 8139
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.6 67.7#
 148 0.0 33.5 100.5#





#78

Hexachloro-1,3-Butadiene

Concen: 0.040 ppbv

RT: 23.36 min Scan# 6398

Delta R.T. 0.00 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

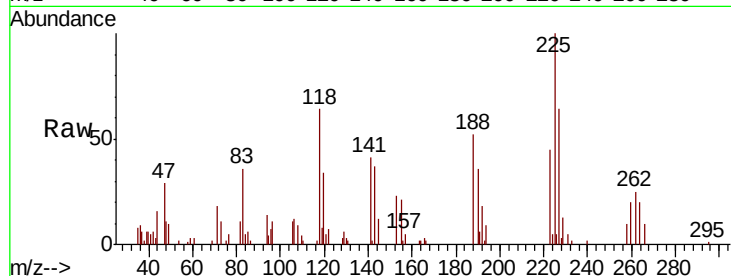
Tot Ion:225 Resp: 7234

Ion Ratio Lower Upper

225 100

223 225.3 51.9 77.9#

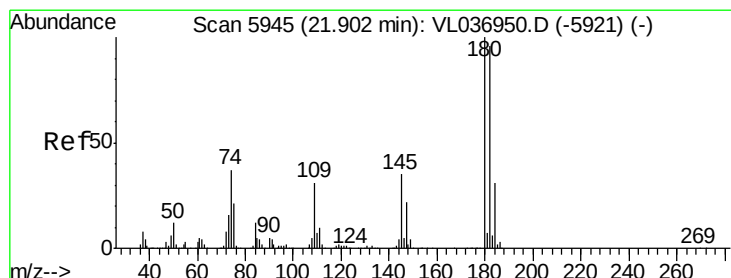
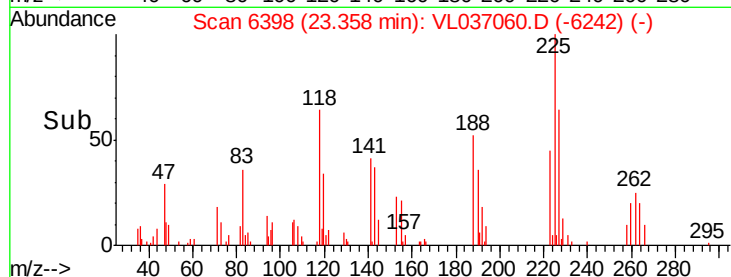
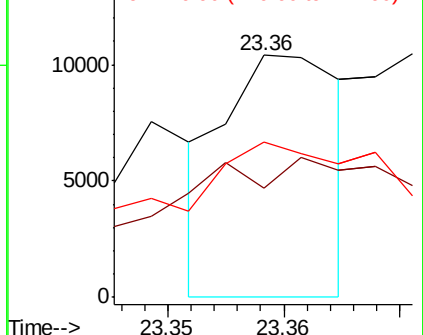
227 222.0 51.8 77.6#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V



#81

1,2,4-Trichlorobenzene

Concen: 0.031 ppbv

RT: 21.92 min Scan# 5951

Delta R.T. 0.02 min

Lab File: VL037060.D

Acq: 25 May 2021 14:37

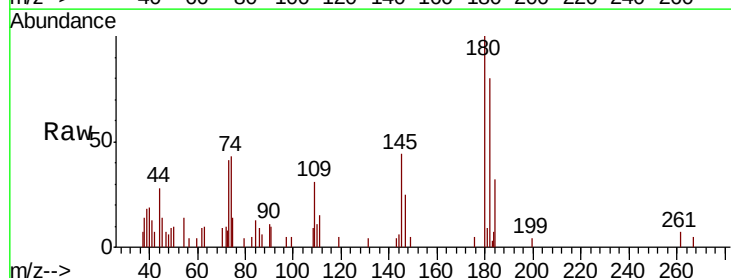
Tgt Ion:180 Resp: 5355

Ion Ratio Lower Upper

180 100

182 241.0 81.7 122.5#

184 0.0 24.9 37.3#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

