

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102523\
 Data File : VL040803.D
 Acq On : 25 Oct 2023 16:54
 Operator : SY/MD
 Sample : 04699-15 0.1 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2023DL

Quant Time: Oct 26 03:53:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Oct 12 00:21:08 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.185	49	935036	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.642	114	2465752	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.446	117	2242063	10.000	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1782832	10.807	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.870	85	16376	0.099	ppbv	94
3) Chlorodifluoromethane	2.687	51	17121	0.125	ppbv #	86
4) Chloromethane	2.825	50	4180	0.077	ppbv #	83
5) Vinyl Chloride	2.928	62	5620	0.100	ppbv	98
6) Bromomethane	3.131	94	2413	0.104	ppbv #	44
7) Chloroethane	3.205	64	2381	0.130	ppbv	100
8) Dichlorotetrafluoroethane	2.870	85	16376	0.131	ppbv	95
9) Propene	2.706	41	5899	0.116	ppbv #	71
10) Heptane	7.558	43	4050	0.032	ppbv #	1
11) Trichlorofluoromethane	3.568	101	15922	0.125	ppbv #	81
12) 1,1,2-Trichlorotrifluo...	4.067	101	8368	0.092	ppbv #	69
13) Ethanol	3.256	45	384	0.033	ppbv #	38
14) Bromoethene	3.375	108	2922	0.075	ppbv #	40
16) 1,3-Butadiene	2.996	39	4376	0.086	ppbv #	61
18) 1,1-Dichloroethene	3.883	96	3329	0.082	ppbv #	51
20) Methylene Chloride	3.938	84	12548	0.312	ppbv #	72
21) Allyl Chloride	3.999	41	7920	0.124	ppbv	88
22) trans-1,2-Dichloroethene	4.449	96	2680	0.062	ppbv #	71
24) 1,1-Dichloroethane	4.562	63	7718	0.083	ppbv #	95
26) Hexane	5.208	57	12972	0.134	ppbv #	5
27) Carbon Disulfide	4.124	76	9383	0.088	ppbv #	1
29) Chloroform	5.266	83	16128	0.115	ppbv	98
31) cis-1,2-Dichloroethene	5.076	61	5102	0.057	ppbv #	78
32) 1,1,1-Trichloroethane	5.992	97	8773	0.059	ppbv #	31
35) Carbon Tetrachloride	6.478	117	5650	0.041	ppbv #	54
36) Benzene	6.359	78	20057	0.106	ppbv #	84
37) 1,2-Dichloroethane	5.803	62	6232	0.064	ppbv #	80
38) Trichloroethene	7.279	130	6445	0.077	ppbv #	65
39) 1,2-Dichloropropane	6.639	63	606213	8.181	ppbv #	27
42) Bromodichloromethane	7.230	83	5935	0.041	ppbv #	75
44) 2,2,4-Trimethylpentane	7.314	57	16921	0.053	ppbv #	24
45) t-1,3-Dichloropropene	8.693	75	1858	0.031	ppbv	96
46) cis-1,3-Dichloropropene	8.124	75	2471	0.033	ppbv #	61
47) 1,1,2-Trichloroethane	8.873	97	2372	0.030	ppbv #	27
50) 4-Methyl-2-Pentanone	8.205	43	13432	0.070	ppbv #	80
53) Toluene	9.201	91	16586	0.073	ppbv #	78
54) 1,2-Dibromoethane	9.989	107	5517	0.051	ppbv	95
56) 1,1,1,2-Tetrachloroethane	11.491	131	6919	0.076	ppbv #	10
57) Chlorobenzene	11.504	112	9696	0.060	ppbv #	83
60) o-Xylene	13.034	91	14330	0.065	ppbv	73
62) Isopropylbenzene	14.008	105	30625	0.090	ppbv	97
69) p-Isopropyltoluene	16.976	119	13796	0.039	ppbv #	35
70) n-Butylbenzene	17.876	91	17535	0.051	ppbv #	54

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MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

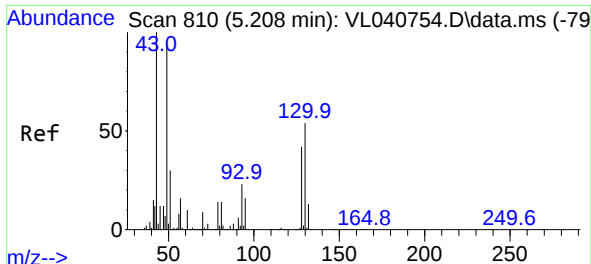
Quant Time: Oct 26 03:53:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	14.773	91	13779	0.054	ppbv #	41
72) 4-Ethyltoluene	15.172	105	15747	0.061	ppbv #	55
77) 1,2-Dichlorobenzene	17.117	146	5930	0.039	ppbv #	23

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

Quant Time: Oct 26 03:53:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration

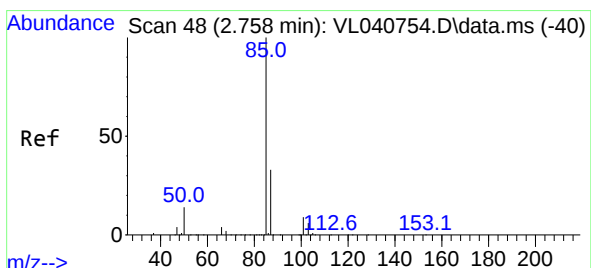
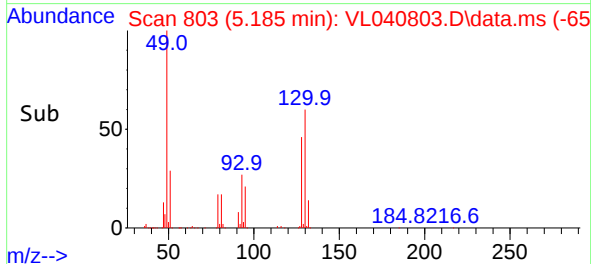
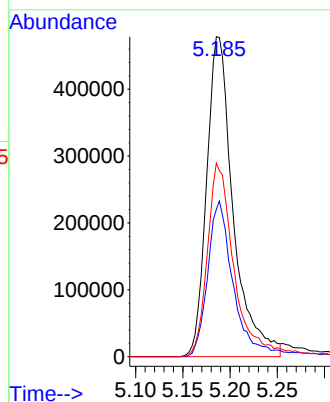
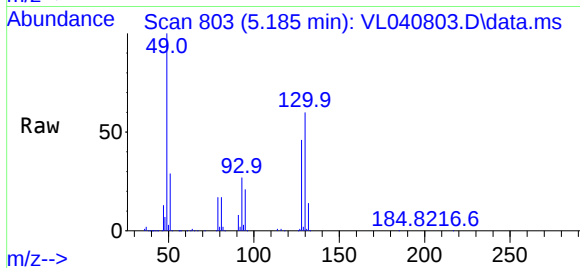




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.023 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

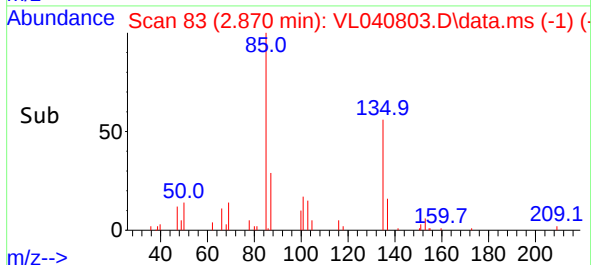
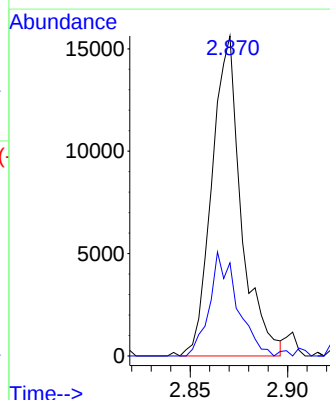
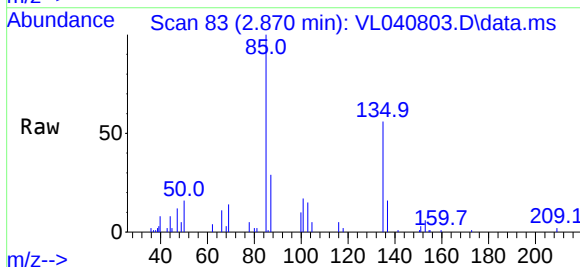
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

Tgt Ion: 49 Resp: 935036
Ion Ratio Lower Upper
49 100
128 48.7 23.9 71.7
130 62.9 30.7 92.1

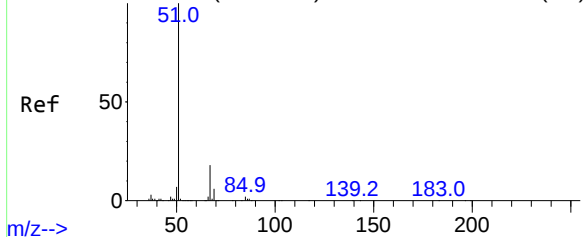


#2
Dichlorodifluoromethane
Concen: 0.099 ppbv
RT: 2.870 min Scan# 83
Delta R.T. 0.113 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion: 85 Resp: 16376
Ion Ratio Lower Upper
85 100
87 29.1 26.0 39.0



Abundance Scan 31 (2.703 min): VL040754.D\data.ms (-19)

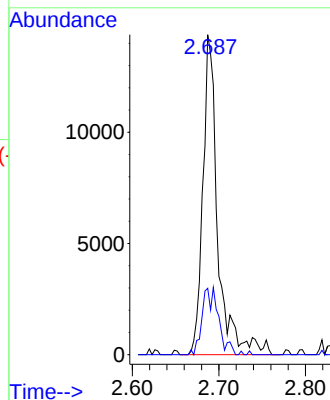
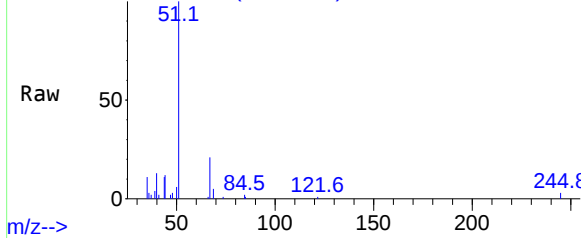


#3
Chlorodifluoromethane
Concen: 0.125 ppbv
RT: 2.687 min Scan# 20
Delta R.T. -0.016 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

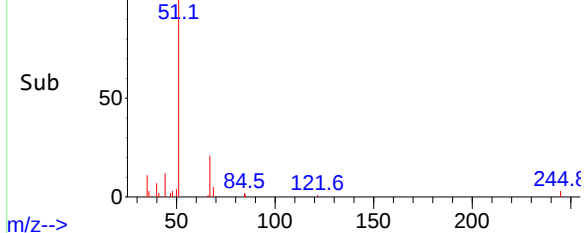
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

Tgt Ion: 51 Resp: 17121
Ion Ratio Lower Upper
51 100
67 23.2 13.8 20.6#

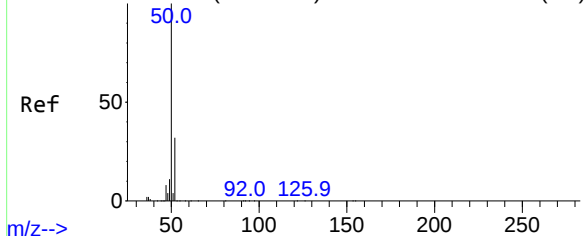
Abundance Scan 26 (2.687 min): VL040803.D\data.ms



Abundance Scan 26 (2.687 min): VL040803.D\data.ms (-1) (-



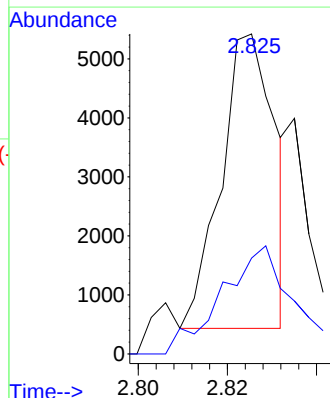
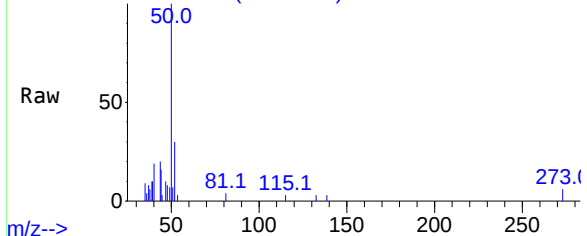
Abundance Scan 74 (2.841 min): VL040754.D\data.ms (-65)



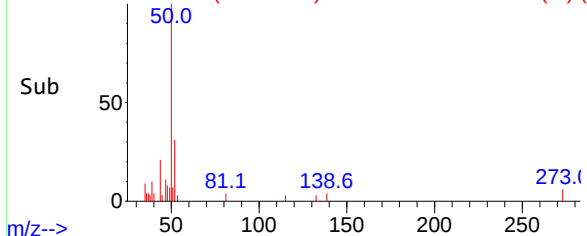
#4
Chloromethane
Concen: 0.077 ppbv
RT: 2.825 min Scan# 69
Delta R.T. -0.016 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

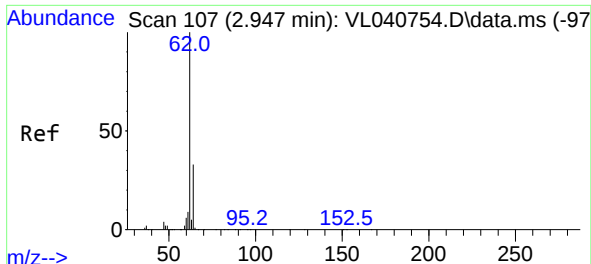
Tgt Ion: 50 Resp: 4180
Ion Ratio Lower Upper
50 100
52 22.2 25.3 37.9#

Abundance Scan 69 (2.825 min): VL040803.D\data.ms



Abundance Scan 69 (2.825 min): VL040803.D\data.ms (-1) (-

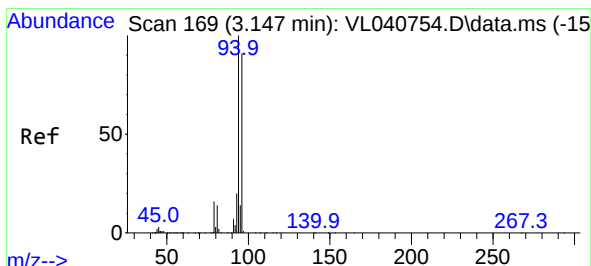
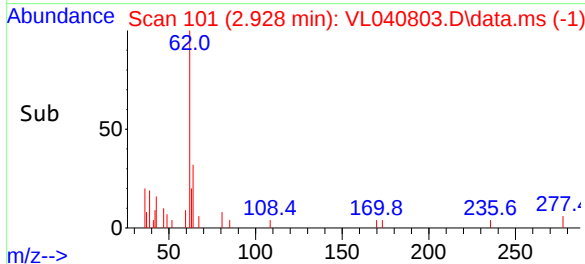
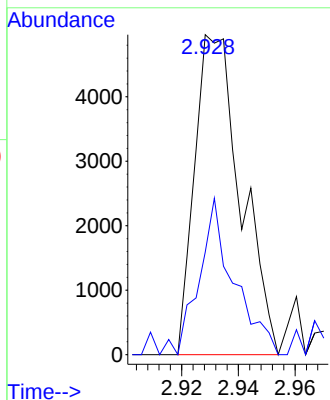
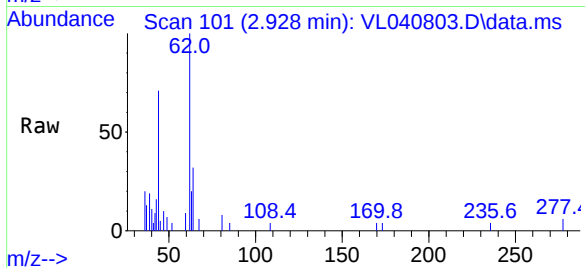




#5
 Vinyl Chloride
 Concen: 0.100 ppbv
 RT: 2.928 min Scan# 101
 Delta R.T. -0.019 min
 Lab File: VL040803.D
 Acq: 25 Oct 2023 16:54

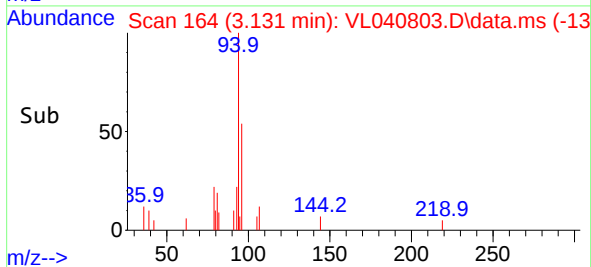
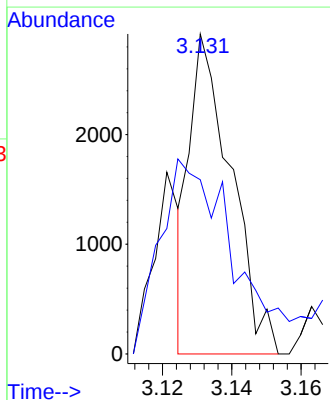
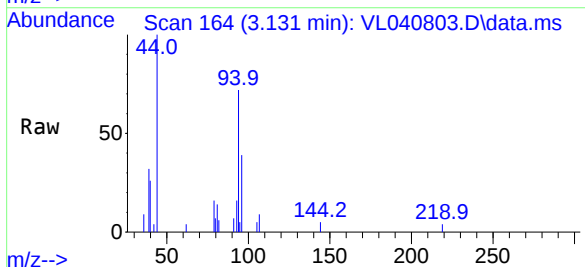
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2023DL

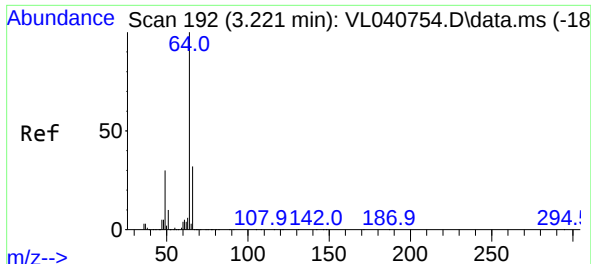
Tgt Ion: 62 Resp: 5620
 Ion Ratio Lower Upper
 62 100
 64 32.1 26.6 39.8



#6
 Bromomethane
 Concen: 0.104 ppbv
 RT: 3.131 min Scan# 164
 Delta R.T. -0.016 min
 Lab File: VL040803.D
 Acq: 25 Oct 2023 16:54

Tgt Ion: 94 Resp: 2413
 Ion Ratio Lower Upper
 94 100
 96 37.5 72.6 109.0#

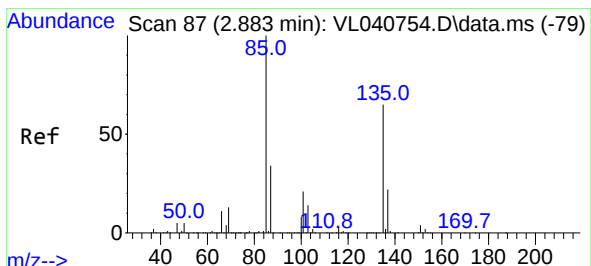
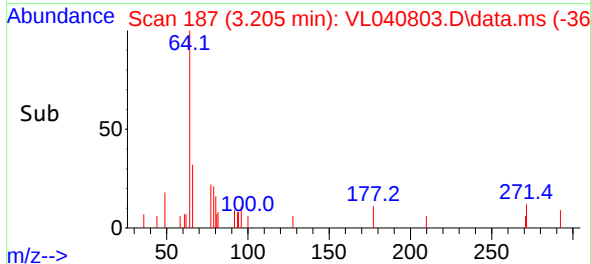
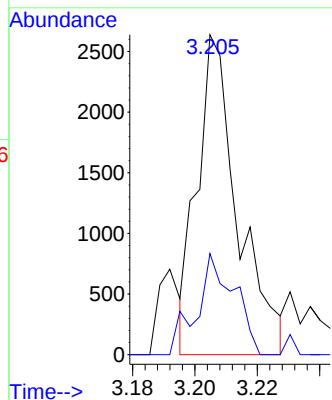
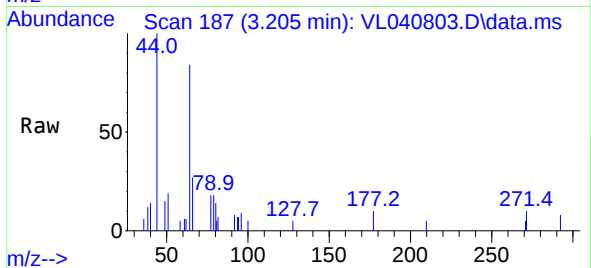




#7
Chloroethane
Concen: 0.130 ppbv
RT: 3.205 min Scan# 11
Delta R.T. -0.016 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

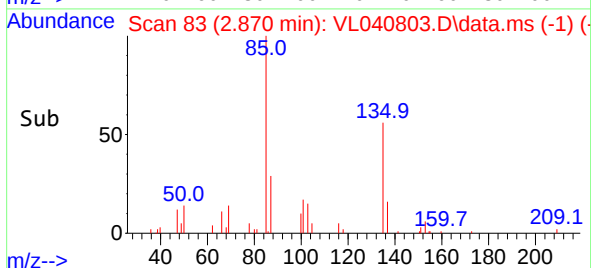
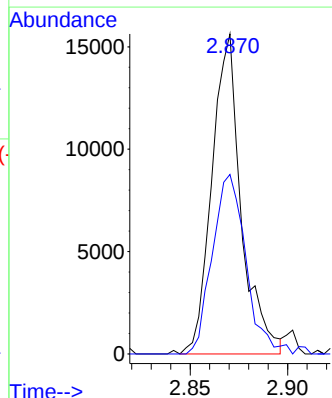
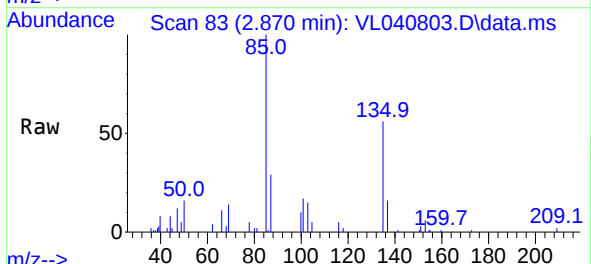
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

Tgt Ion: 64 Resp: 2381
Ion Ratio Lower Upper
64 100
66 31.6 25.4 38.2

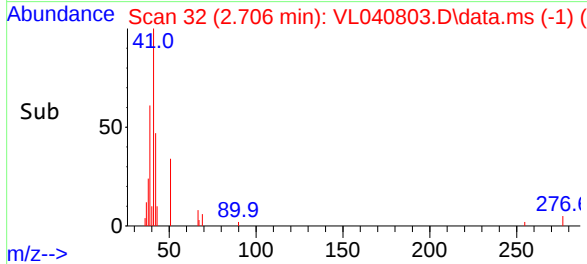
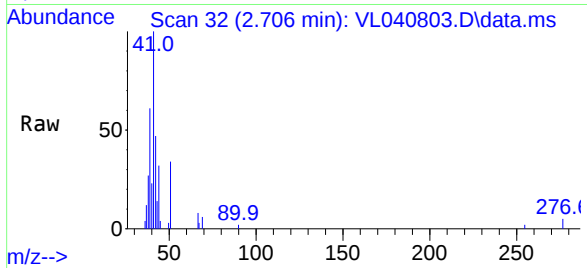
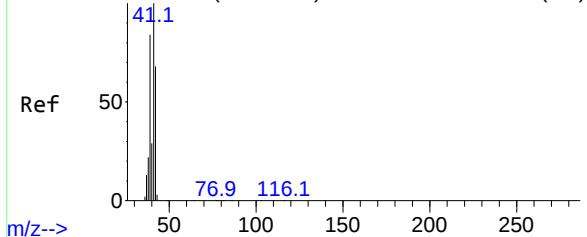


#8
Dichlorotetrafluoroethane
Concen: 0.131 ppbv
RT: 2.870 min Scan# 83
Delta R.T. -0.013 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion: 85 Resp: 16376
Ion Ratio Lower Upper
85 100
135 64.8 55.4 83.2



Abundance Scan 37 (2.722 min): VL040754.D\data.ms (-27)



#9

Propene

Concen: 0.116 ppbv

RT: 2.706 min Scan# 31

Delta R.T. -0.016 min

Lab File: VL040803.D

Acq: 25 Oct 2023 16:54

Instrument :

MSVOA_L

ClientSampleId :

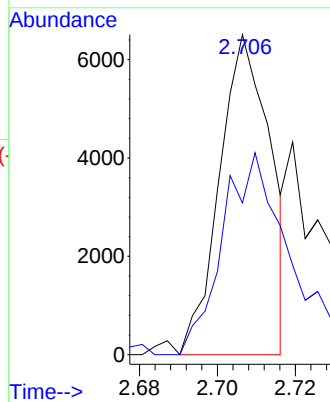
MDL-AIR-03-QT4-2023DL

Tgt Ion: 41 Resp: 5899

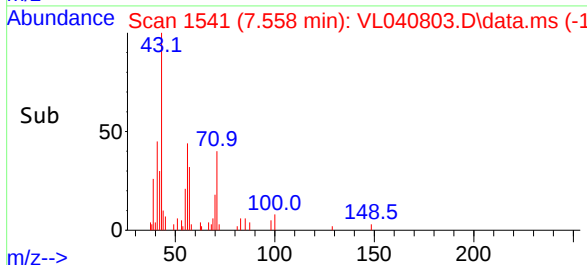
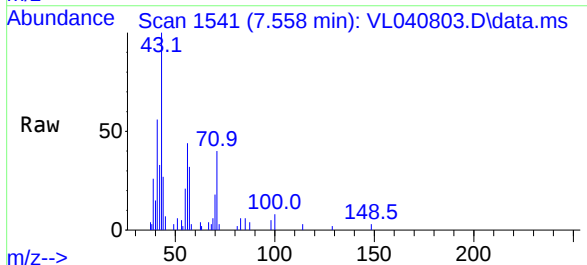
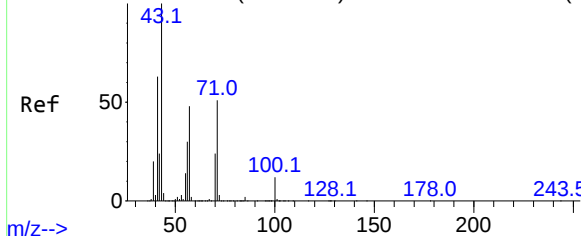
Ion Ratio Lower Upper

41 100

42 95.8 57.1 85.7#



Abundance Scan 1551 (7.590 min): VL040754.D\data.ms (-1)



#10

Heptane

Concen: 0.032 ppbv

RT: 7.558 min Scan# 1541

Delta R.T. -0.032 min

Lab File: VL040803.D

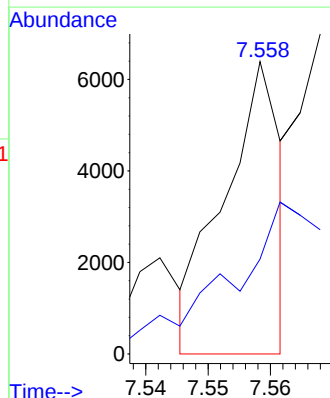
Acq: 25 Oct 2023 16:54

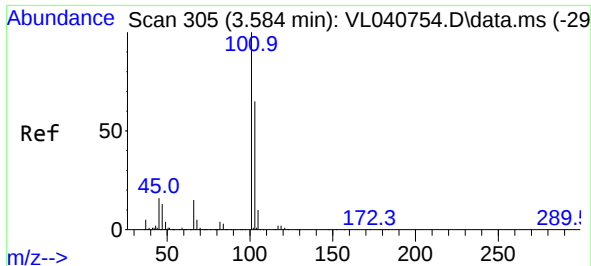
Tgt Ion: 43 Resp: 4050

Ion Ratio Lower Upper

43 100

57 150.2 40.0 60.0#

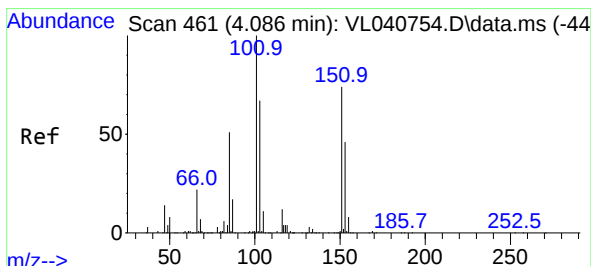
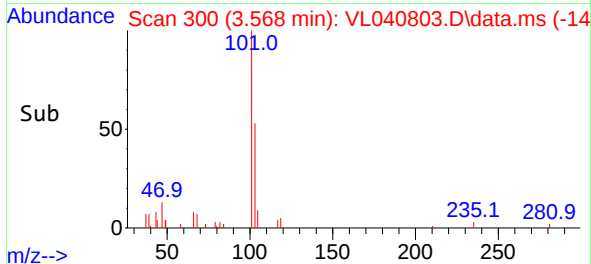
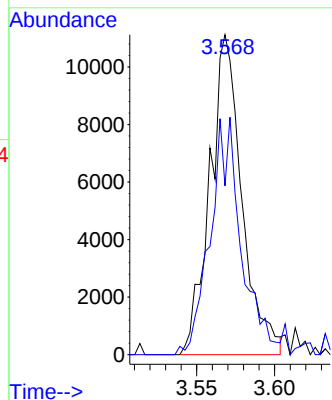
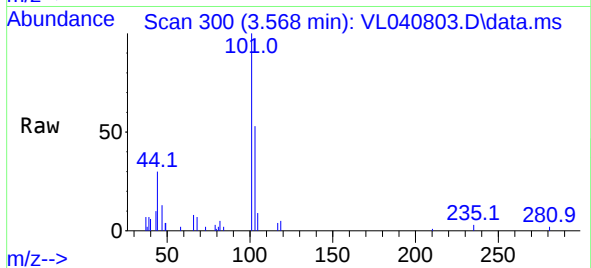




#11
Trichlorofluoromethane
Concen: 0.125 ppbv
RT: 3.568 min Scan# 305
Delta R.T. -0.016 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

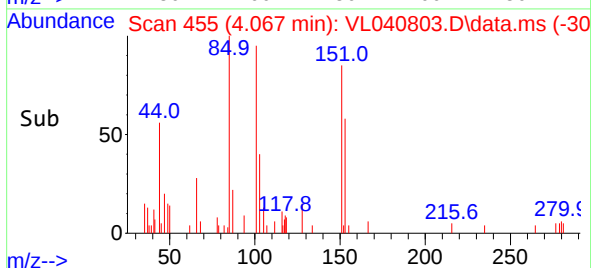
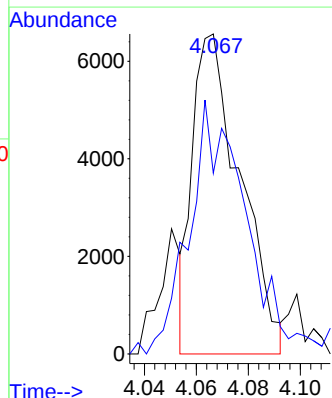
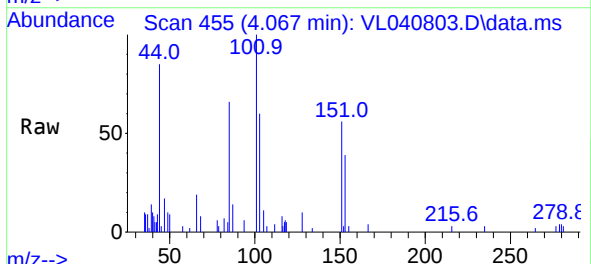
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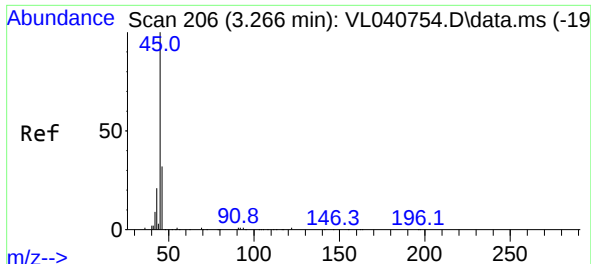
Tgt Ion:101 Resp: 15922
Ion Ratio Lower Upper
101 100
103 50.1 52.2 78.2#



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.092 ppbv
RT: 4.067 min Scan# 455
Delta R.T. -0.019 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion:101 Resp: 8368
Ion Ratio Lower Upper
101 100
151 98.4 58.1 87.1#

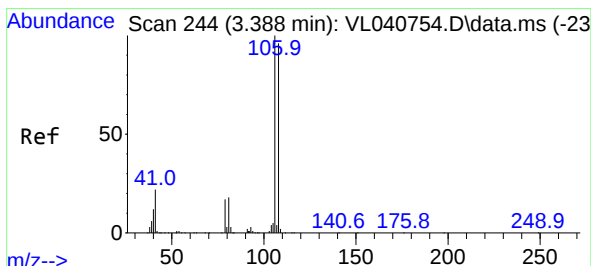
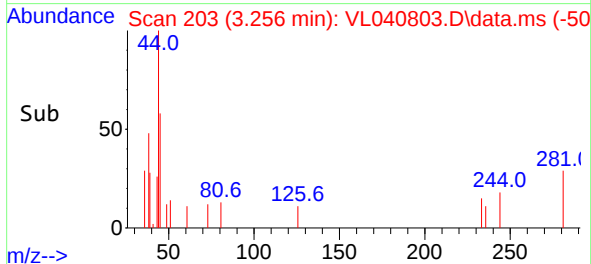
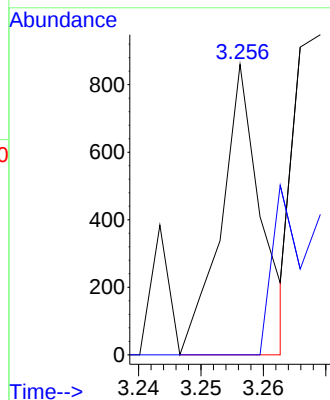
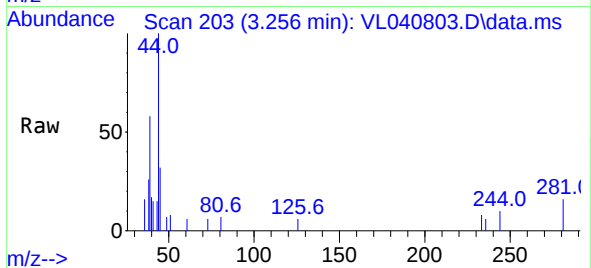




#13
Ethanol
Concen: 0.033 ppbv
RT: 3.256 min Scan# 206
Delta R.T. -0.010 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

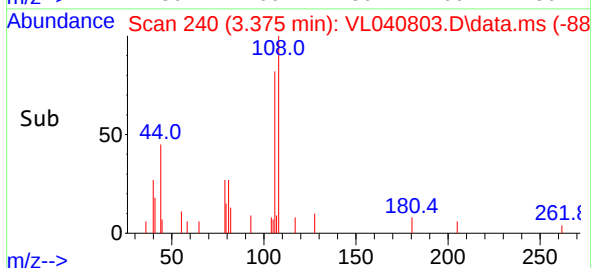
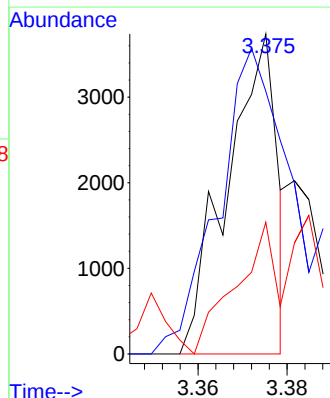
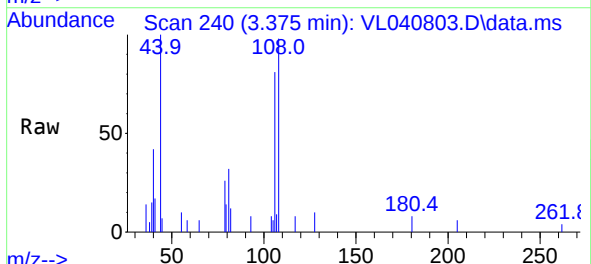
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

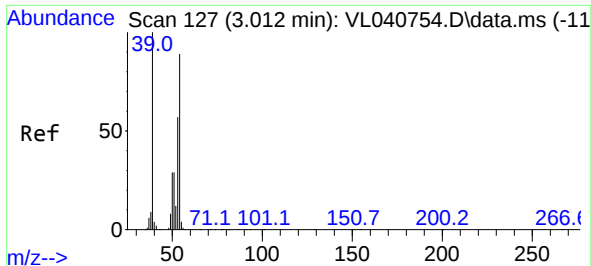
Tgt Ion: 45 Resp: 384
Ion Ratio Lower Upper
45 100
46 0.0 14.6 58.2#



#14
Bromoethene
Concen: 0.075 ppbv
RT: 3.375 min Scan# 240
Delta R.T. -0.013 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion: 108 Resp: 2922
Ion Ratio Lower Upper
108 100
106 174.9 85.2 127.8#
79 33.5 15.7 23.5#





#16

1,3-Butadiene

Concen: 0.086 ppbv

RT: 2.996 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL040803.D

Acq: 25 Oct 2023 16:54

Instrument :

MSVOA_L

ClientSampleId :

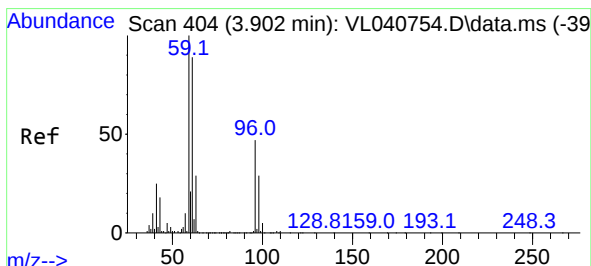
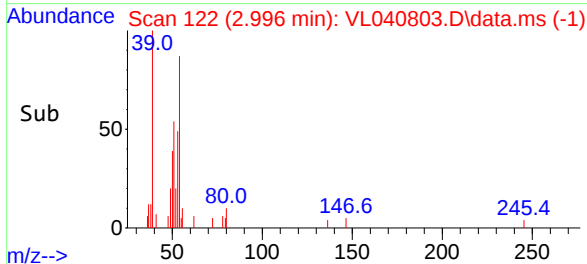
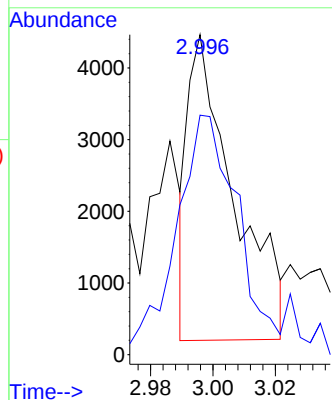
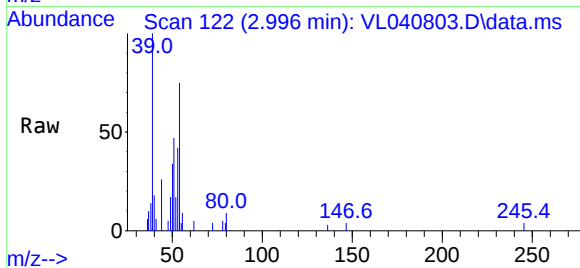
MDL-AIR-03-QT4-2023DL

Tgt Ion: 39 Resp: 4376

Ion Ratio Lower Upper

39 100

54 113.1 63.0 94.6#



#18

1,1-Dichloroethene

Concen: 0.082 ppbv

RT: 3.883 min Scan# 398

Delta R.T. -0.019 min

Lab File: VL040803.D

Acq: 25 Oct 2023 16:54

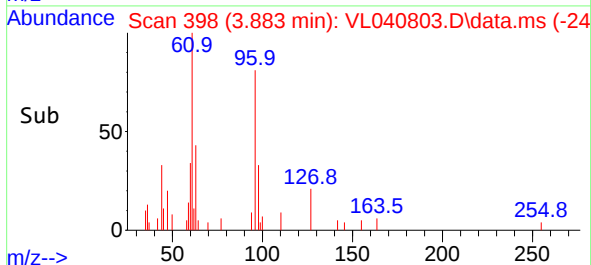
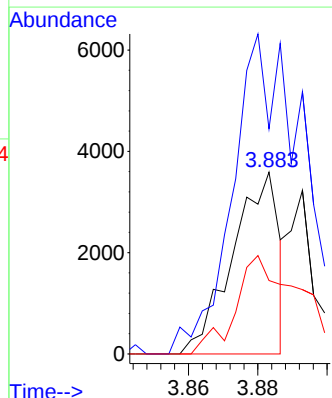
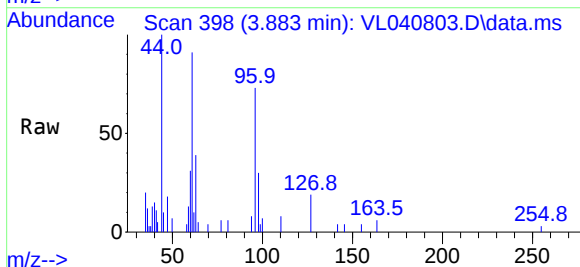
Tgt Ion: 96 Resp: 3329

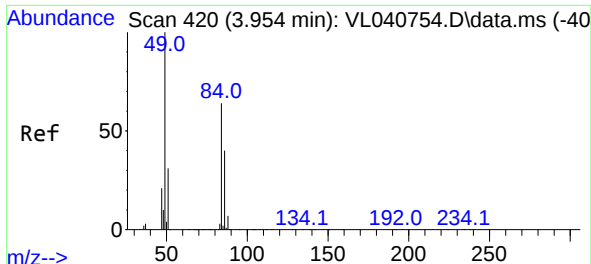
Ion Ratio Lower Upper

96 100

61 109.1 152.5 228.7#

98 40.4 49.6 74.4#

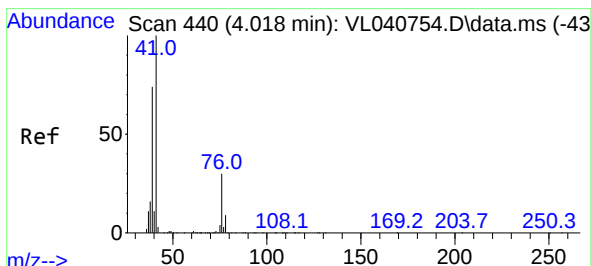
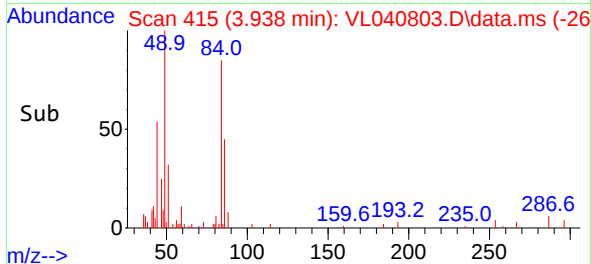
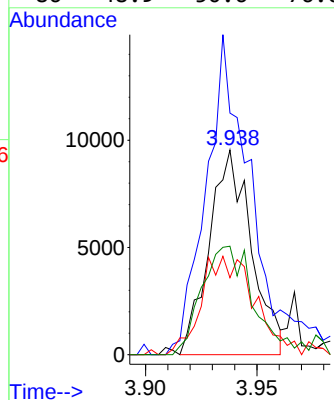
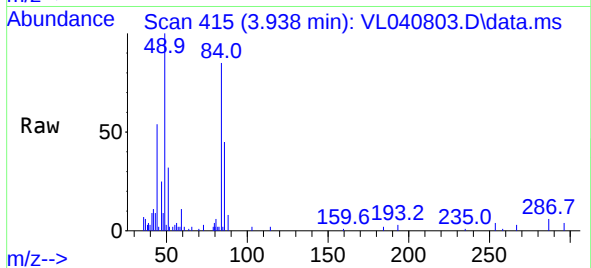




#20
Methylene Chloride
Concen: 0.312 ppbv
RT: 3.938 min Scan# 415
Delta R.T. -0.016 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

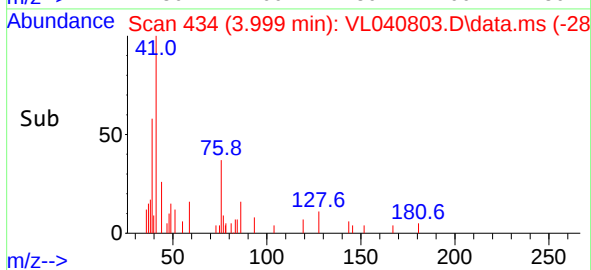
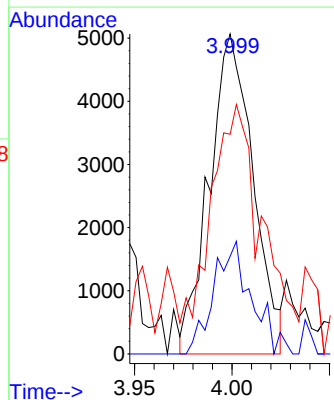
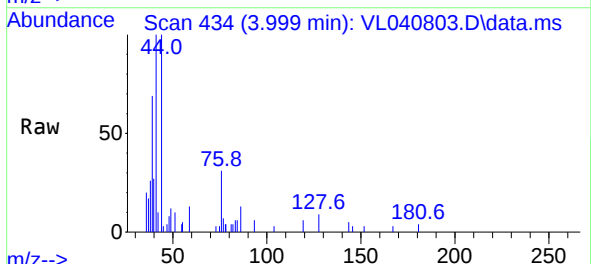
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

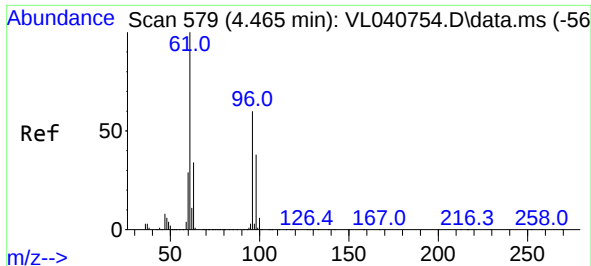
Tgt Ion: 84 Resp: 12548
Ion Ratio Lower Upper
84 100
49 115.0 125.6 188.4#
51 31.8 38.9 58.3#
86 48.9 50.6 76.0#



#21
Allyl Chloride
Concen: 0.124 ppbv
RT: 3.999 min Scan# 434
Delta R.T. -0.019 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion: 41 Resp: 7920
Ion Ratio Lower Upper
41 100
76 32.5 24.1 36.1
39 92.6 63.8 95.6

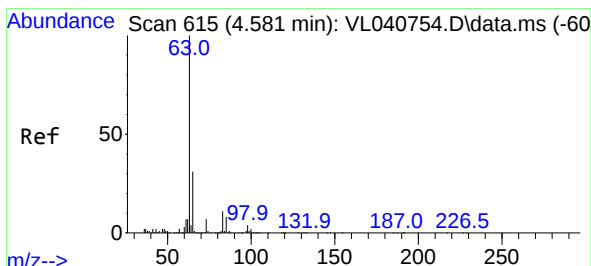
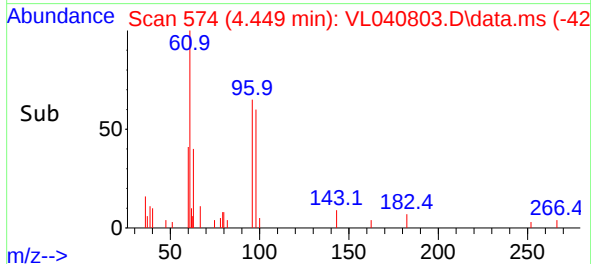
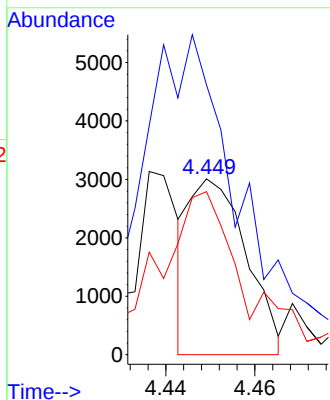
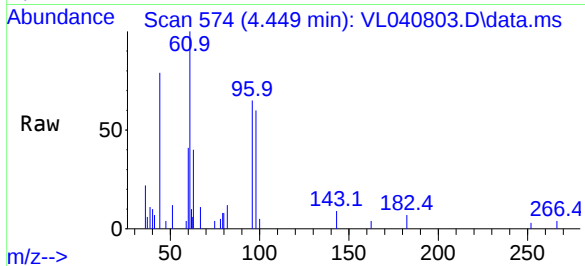




#22
trans-1,2-Dichloroethene
Concen: 0.062 ppbv
RT: 4.449 min Scan# 51
Delta R.T. -0.016 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

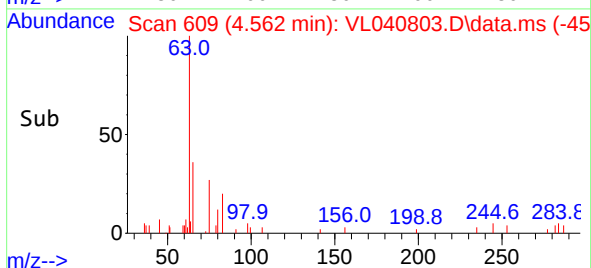
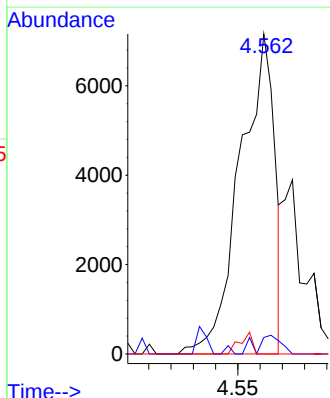
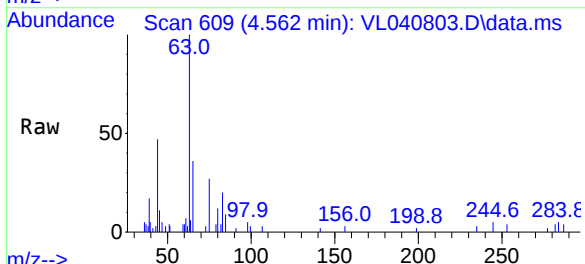
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

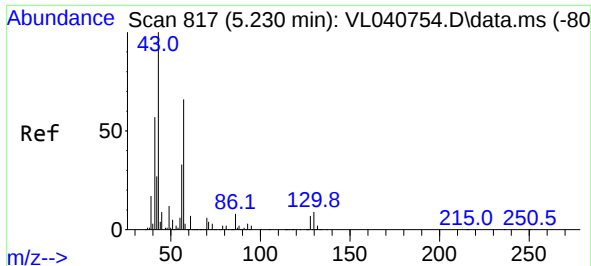
Tgt Ion: 96 Resp: 2680
Ion Ratio Lower Upper
96 100
61 120.0 134.0 201.0#
98 74.2 51.0 76.4



#24
1,1-Dichloroethane
Concen: 0.083 ppbv
RT: 4.562 min Scan# 609
Delta R.T. -0.019 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion: 63 Resp: 7718
Ion Ratio Lower Upper
63 100
98 5.2 2.0 5.8
100 0.0 1.3 3.8#

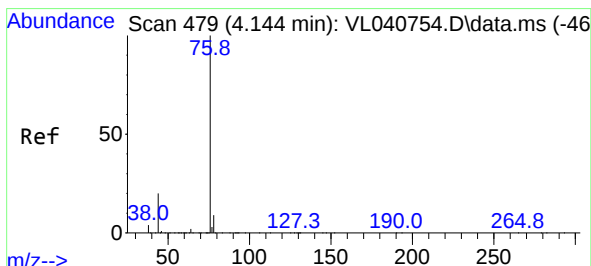
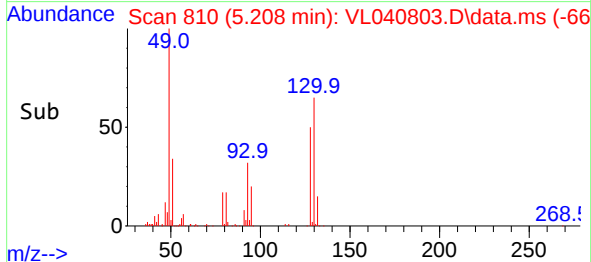
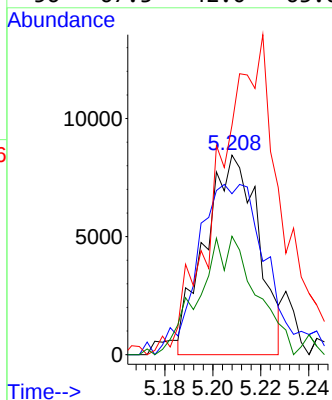
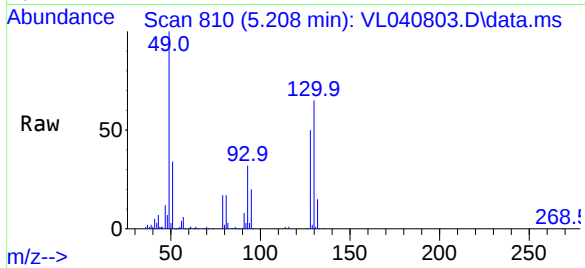




#26
Hexane
Concen: 0.134 ppbv
RT: 5.208 min Scan# 817
Delta R.T. -0.022 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

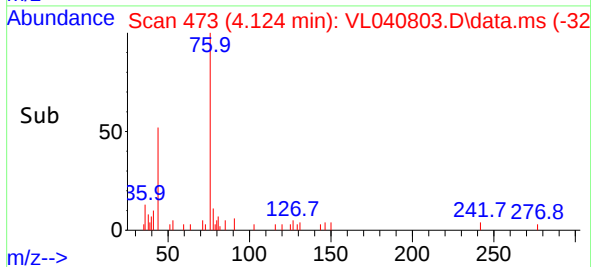
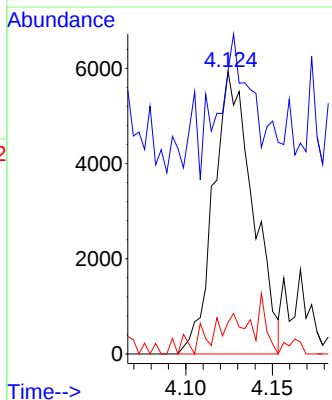
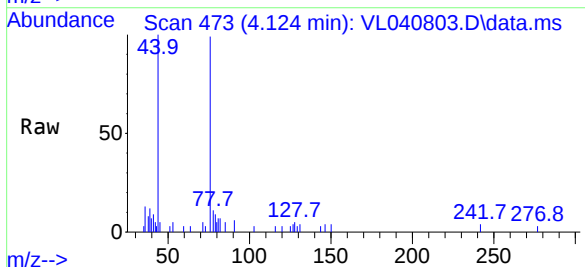
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

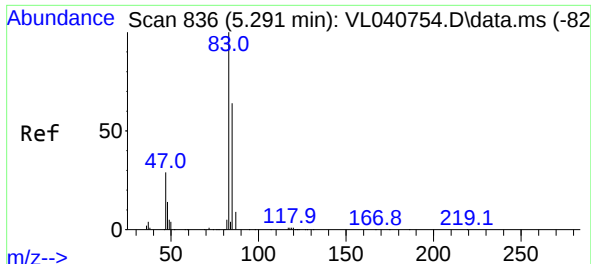
Tgt Ion: 57 Resp: 12972
Ion Ratio Lower Upper
57 100
41 115.1 71.4 107.2#
43 0.0 182.3 273.5#
56 67.3 42.0 63.0#



#27
Carbon Disulfide
Concen: 0.088 ppbv
RT: 4.124 min Scan# 473
Delta R.T. -0.019 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion: 76 Resp: 9383
Ion Ratio Lower Upper
76 100
44 90.9 16.6 25.0#
78 0.0 7.8 11.6#





#29

Chloroform

Concen: 0.115 ppbv

RT: 5.266 min Scan# 81

Delta R.T. -0.026 min

Lab File: VL040803.D

Acq: 25 Oct 2023 16:54

Instrument :

MSVOA_L

ClientSampleId :

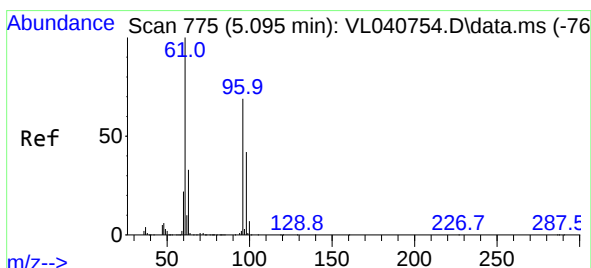
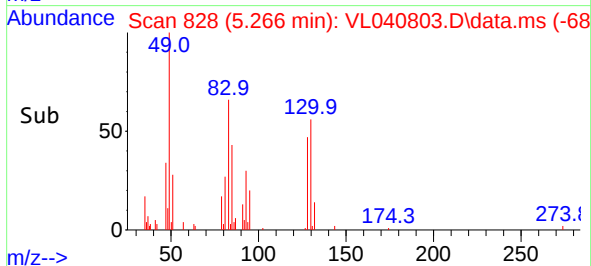
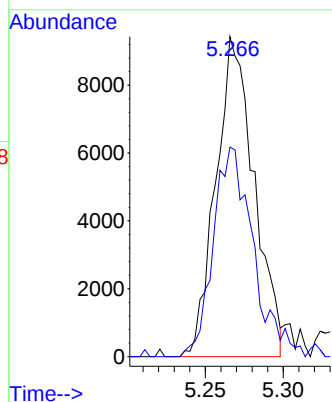
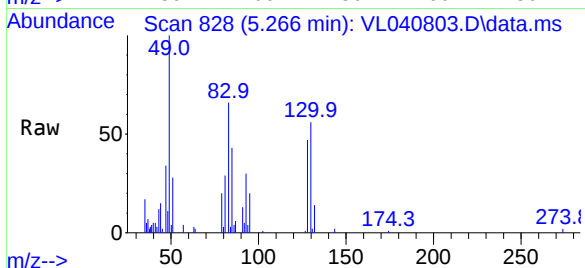
MDL-AIR-03-QT4-2023DL

Tgt Ion: 83 Resp: 16128

Ion Ratio Lower Upper

83 100

85 65.5 51.3 76.9



#31

cis-1,2-Dichloroethene

Concen: 0.057 ppbv

RT: 5.076 min Scan# 769

Delta R.T. -0.019 min

Lab File: VL040803.D

Acq: 25 Oct 2023 16:54

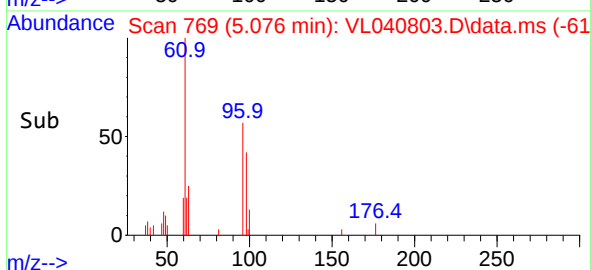
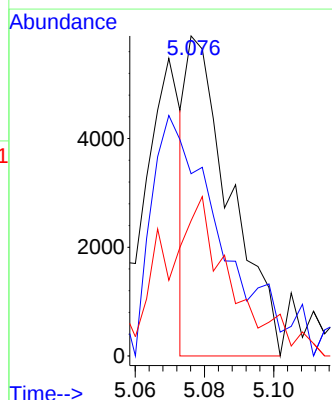
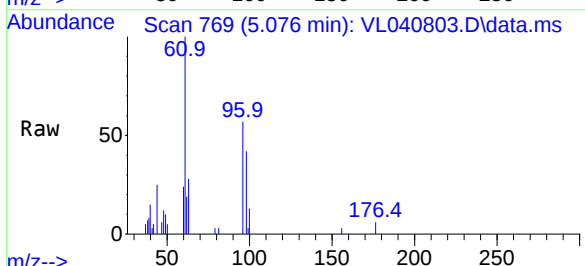
Tgt Ion: 61 Resp: 5102

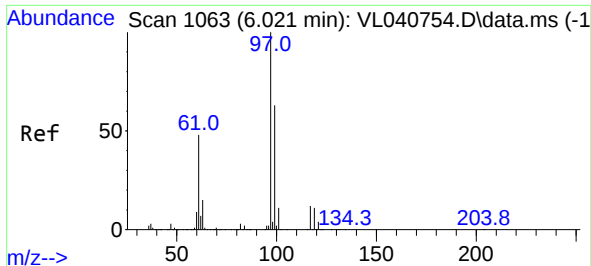
Ion Ratio Lower Upper

61 100

96 49.5 55.1 82.7#

98 29.2 33.5 50.3#

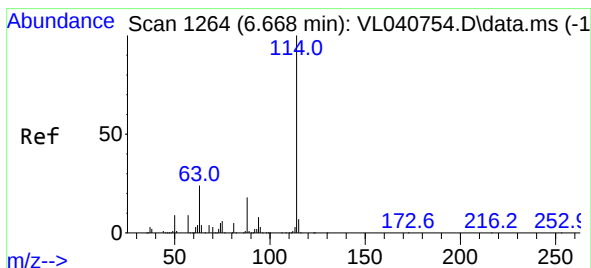
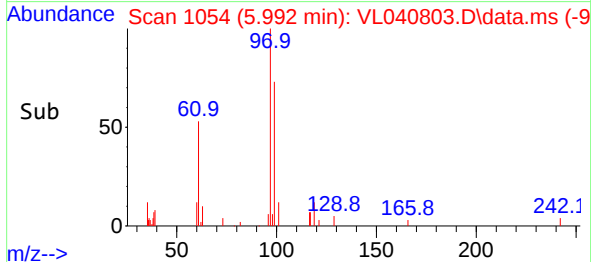
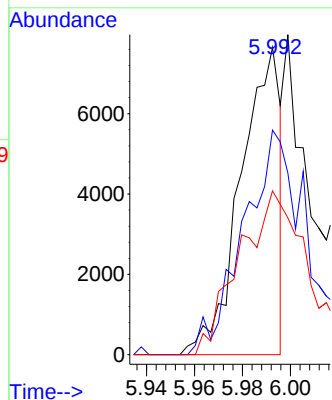
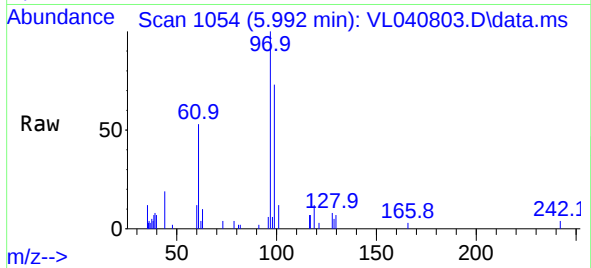




#32
1,1,1-Trichloroethane
Concen: 0.059 ppbv
RT: 5.992 min Scan# 1054
Delta R.T. -0.029 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

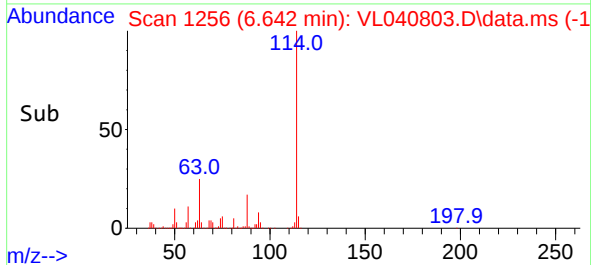
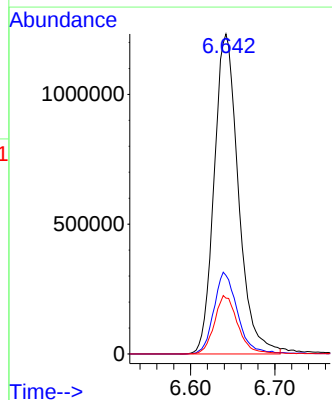
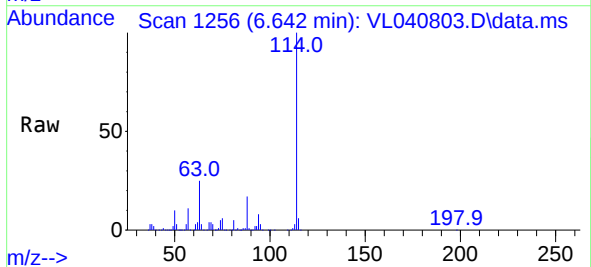
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

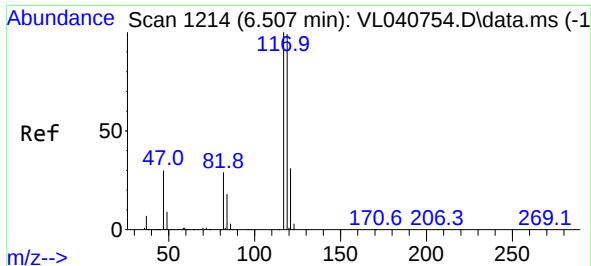
Tgt Ion: 97 Resp: 8773
Ion Ratio Lower Upper
97 100
99 121.2 51.8 77.6#
61 91.8 38.6 58.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.026 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion: 114 Resp: 2465752
Ion Ratio Lower Upper
114 100
63 25.3 19.8 29.6
88 17.8 14.2 21.2

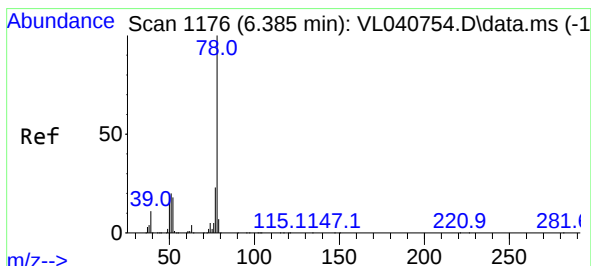
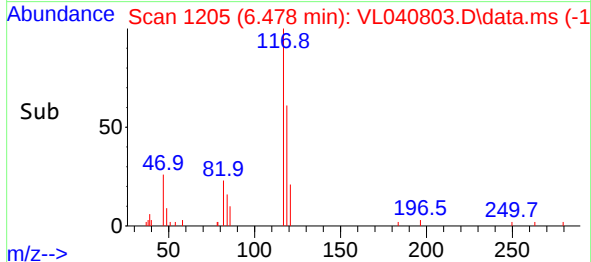
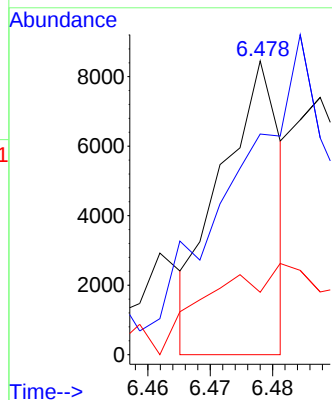
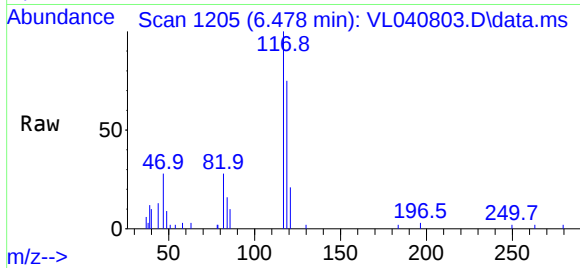




#35
Carbon Tetrachloride
Concen: 0.041 ppbv
RT: 6.478 min Scan# 1168
Delta R.T. -0.029 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

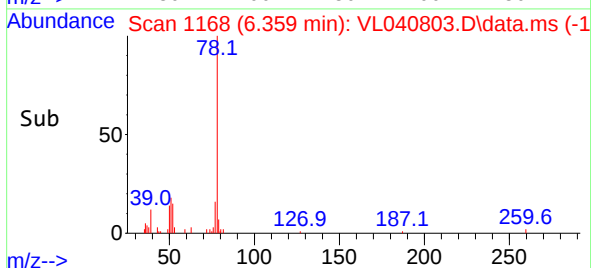
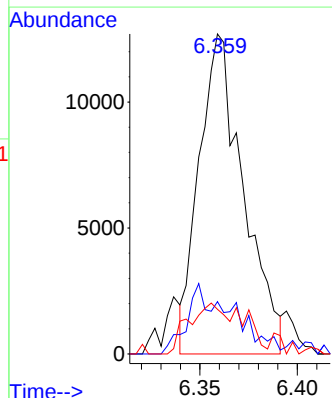
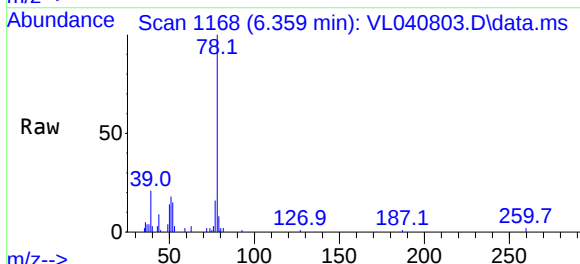
Instrument : MSVOA_L
ClientSampleId : MDL-AIR-03-QT4-2023DL

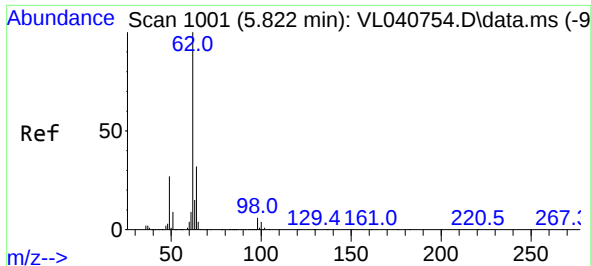
Tgt Ion: 117 Resp: 5650
Ion Ratio Lower Upper
117 100
119 51.0 79.4 119.0#
121 9.3 25.0 37.4#



#36
Benzene
Concen: 0.106 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. -0.026 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion: 78 Resp: 20057
Ion Ratio Lower Upper
78 100
77 17.2 18.4 27.6#
50 9.3 15.0 22.4#

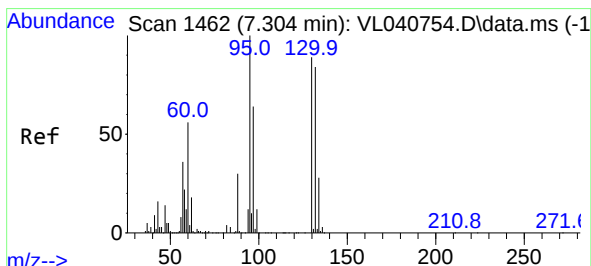
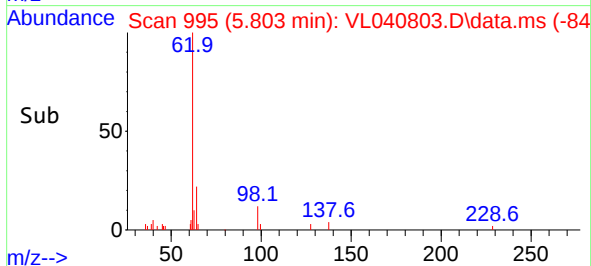
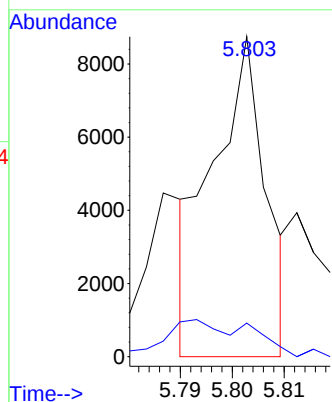
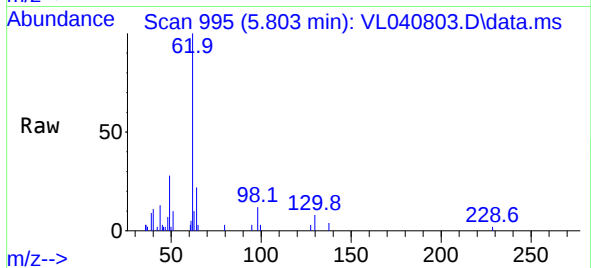




#37
1,2-Dichloroethane
Concen: 0.064 ppbv
RT: 5.803 min Scan# 91
Delta R.T. -0.019 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

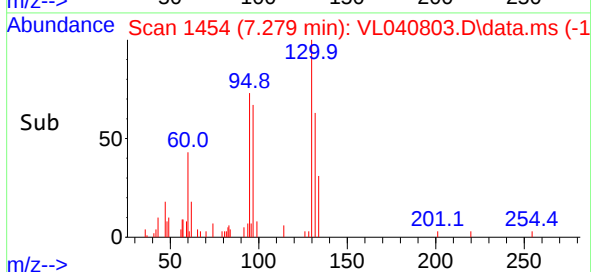
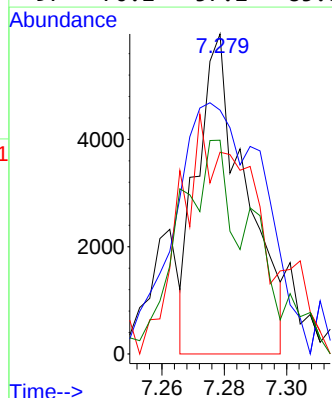
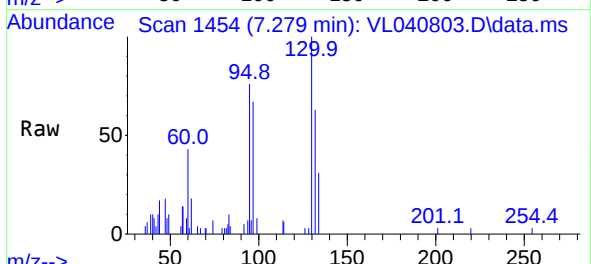
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

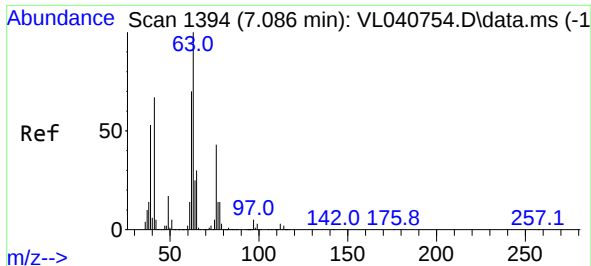
Tgt Ion: 62 Resp: 6232
Ion Ratio Lower Upper
62 100
98 0.0 5.4 8.0#



#38
Trichloroethene
Concen: 0.077 ppbv
RT: 7.279 min Scan# 1454
Delta R.T. -0.026 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion:130 Resp: 6445
Ion Ratio Lower Upper
130 100
95 64.4 89.4 134.2#
132 46.4 74.8 112.2#
97 70.2 57.2 85.8





#39

1,2-Dichloropropane

Concen: 8.181 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.447 min

Lab File: VL040803.D

Acq: 25 Oct 2023 16:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2023DL

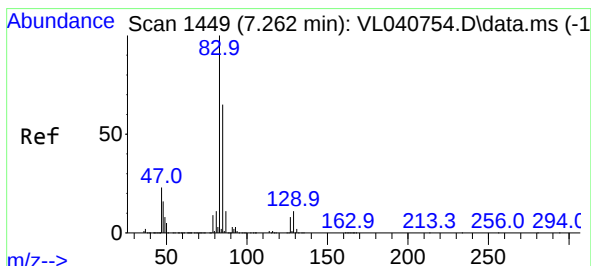
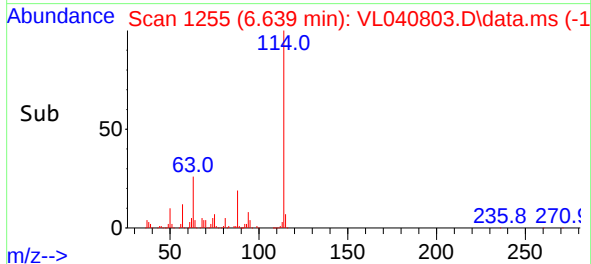
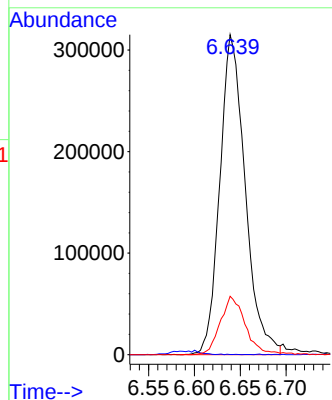
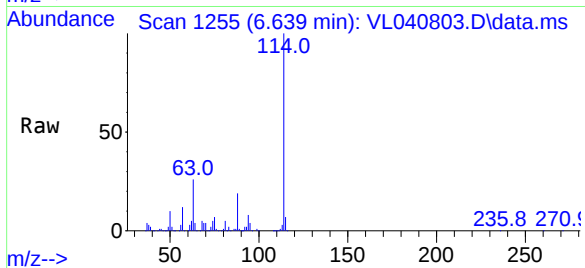
Tgt Ion: 63 Resp: 606213

Ion Ratio Lower Upper

63 100

41 0.1 53.7 80.5#

62 18.3 55.7 83.5#



#42

Bromodichloromethane

Concen: 0.041 ppbv

RT: 7.230 min Scan# 1439

Delta R.T. -0.032 min

Lab File: VL040803.D

Acq: 25 Oct 2023 16:54

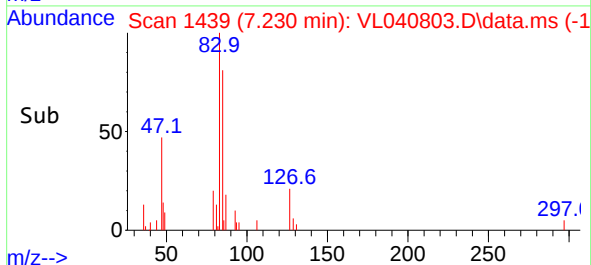
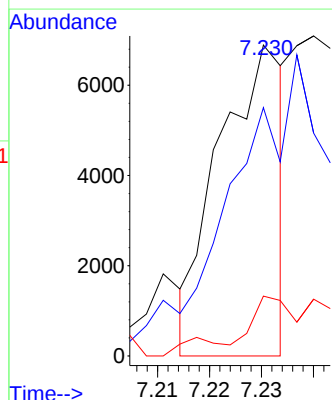
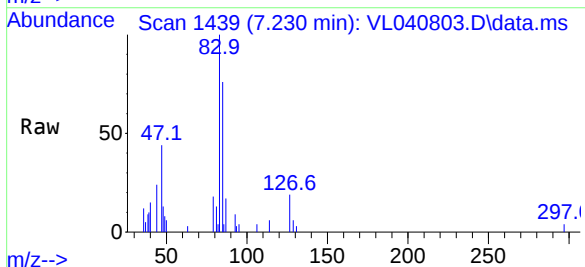
Tgt Ion: 83 Resp: 5935

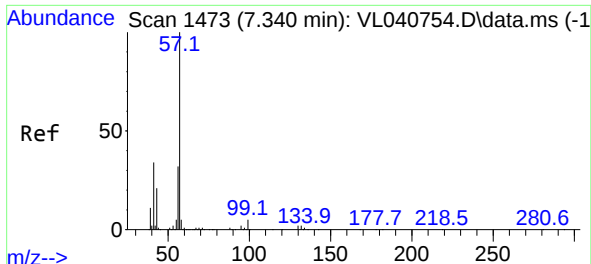
Ion Ratio Lower Upper

83 100

85 84.4 52.1 78.1#

127 19.7 6.7 10.1#





#44

2,2,4-Trimethylpentane

Concen: 0.053 ppbv

RT: 7.314 min Scan# 1473

Delta R.T. -0.026 min

Lab File: VL040803.D

Acq: 25 Oct 2023 16:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2023DL

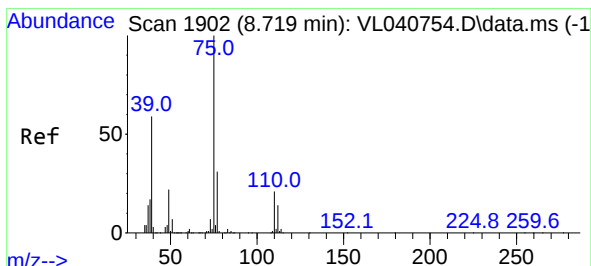
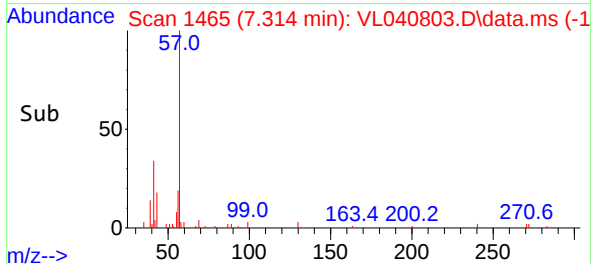
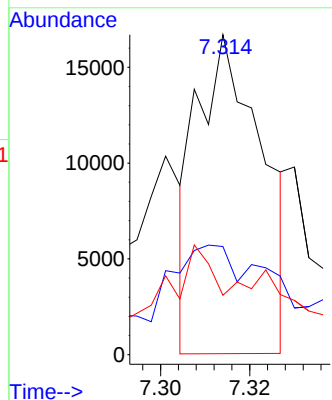
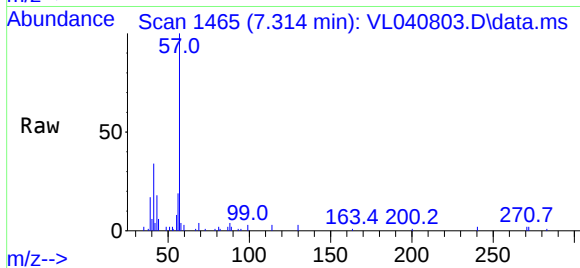
Tgt Ion: 57 Resp: 16921

Ion Ratio Lower Upper

57 100

41 83.5 27.4 41.0#

56 67.8 25.0 37.6#



#45

t-1,3-Dichloropropene

Concen: 0.031 ppbv

RT: 8.693 min Scan# 1894

Delta R.T. -0.026 min

Lab File: VL040803.D

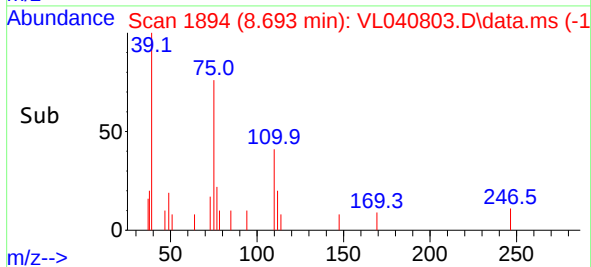
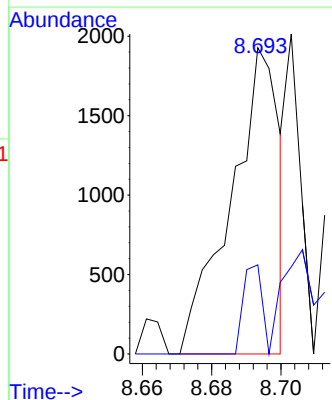
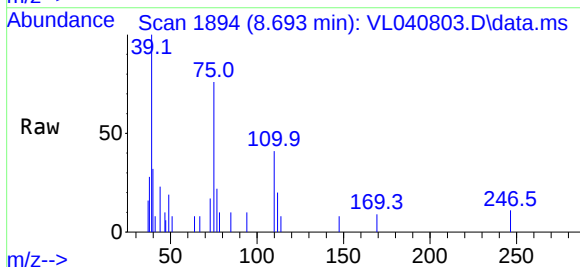
Acq: 25 Oct 2023 16:54

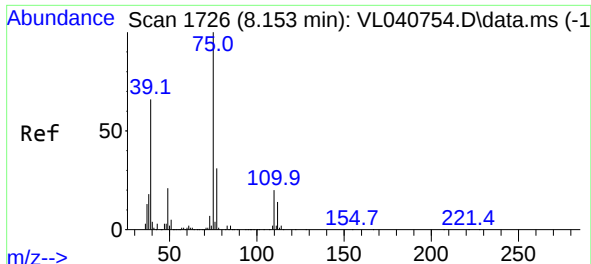
Tgt Ion: 75 Resp: 1858

Ion Ratio Lower Upper

75 100

77 29.1 24.9 37.3

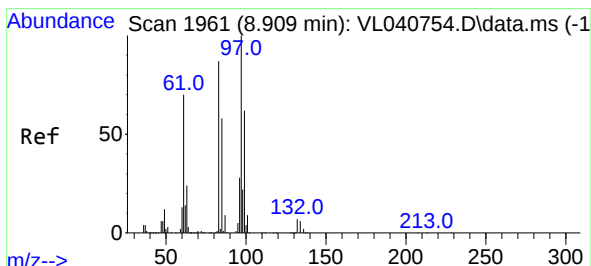
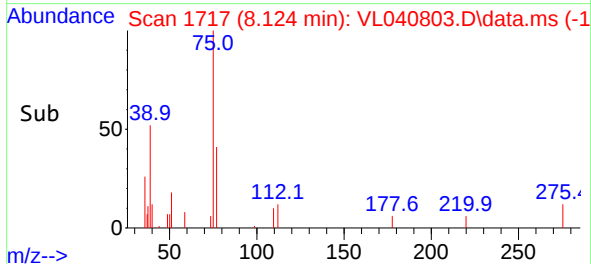
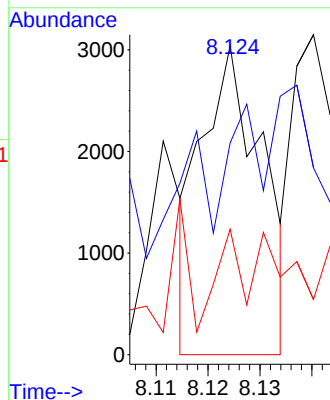
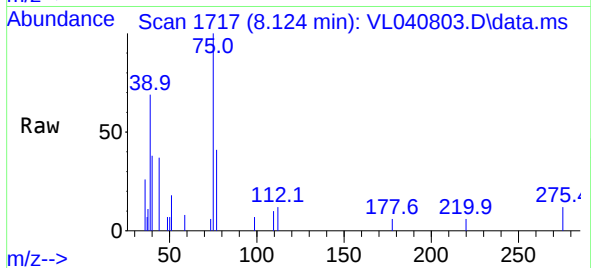




#46
 cis-1,3-Dichloropropene
 Concen: 0.033 ppbv
 RT: 8.124 min Scan# 11
 Delta R.T. -0.029 min
 Lab File: VL040803.D
 Acq: 25 Oct 2023 16:54

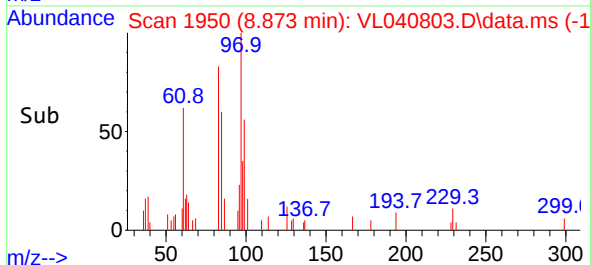
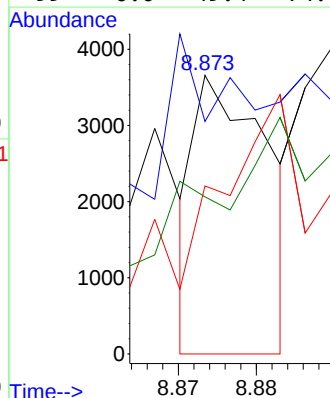
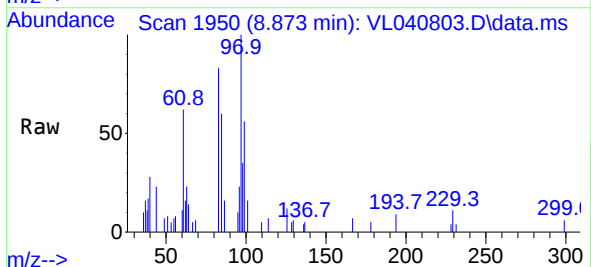
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2023DL

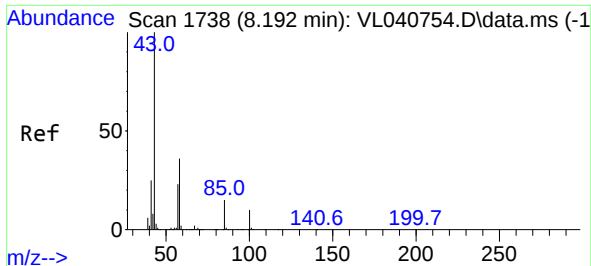
Tgt Ion: 75 Resp: 2471
 Ion Ratio Lower Upper
 75 100
 39 22.7 52.4 78.6#
 77 27.0 25.1 37.7



#47
 1,1,2-Trichloroethane
 Concen: 0.030 ppbv
 RT: 8.873 min Scan# 1950
 Delta R.T. -0.035 min
 Lab File: VL040803.D
 Acq: 25 Oct 2023 16:54

Tgt Ion: 97 Resp: 2372
 Ion Ratio Lower Upper
 97 100
 83 0.0 69.5 104.3#
 85 83.7 46.6 69.8#
 99 0.0 49.4 74.0#





#50

4-Methyl-2-Pentanone

Concen: 0.070 ppbv

RT: 8.205 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL040803.D

Acq: 25 Oct 2023 16:54

Instrument :

MSVOA_L

ClientSampleId :

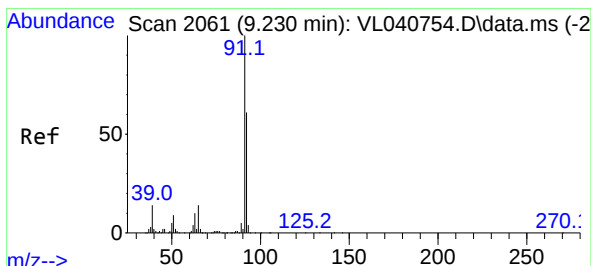
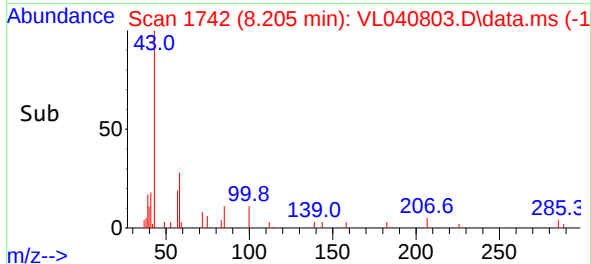
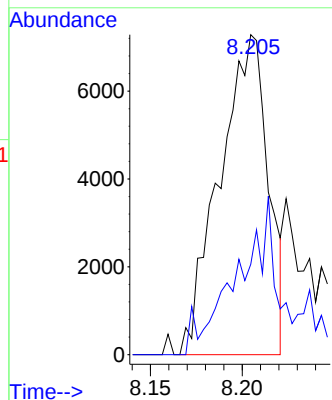
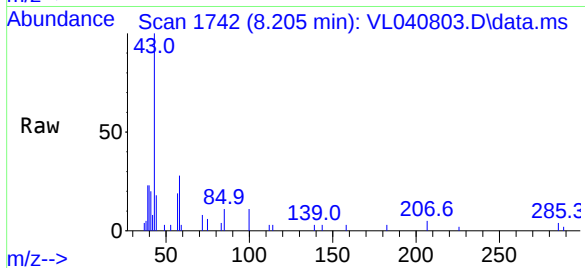
MDL-AIR-03-QT4-2023DL

Tgt Ion: 43 Resp: 13432

Ion Ratio Lower Upper

43 100

58 47.5 28.8 43.2#



#53

Toluene

Concen: 0.073 ppbv

RT: 9.201 min Scan# 2052

Delta R.T. -0.029 min

Lab File: VL040803.D

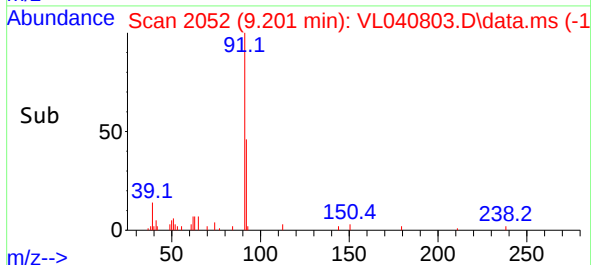
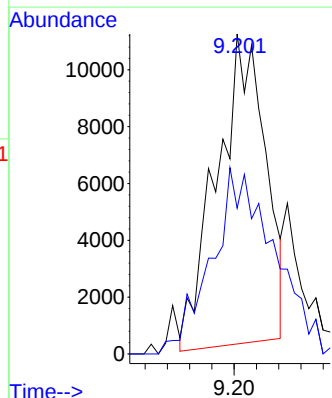
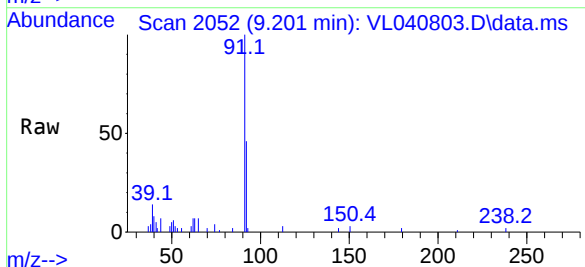
Acq: 25 Oct 2023 16:54

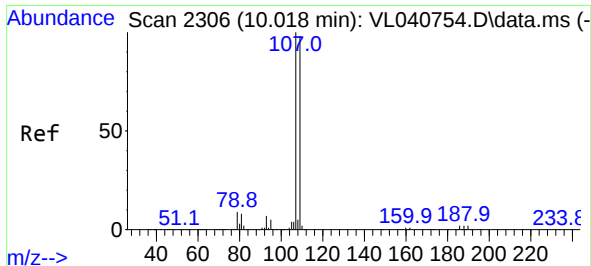
Tgt Ion: 91 Resp: 16586

Ion Ratio Lower Upper

91 100

92 79.4 50.2 75.2#

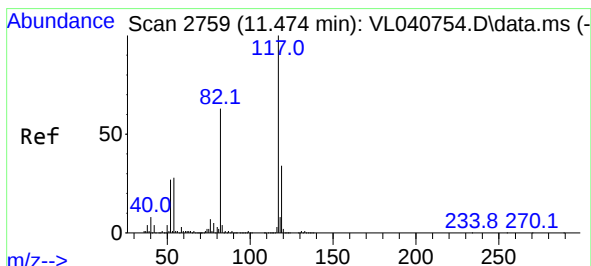
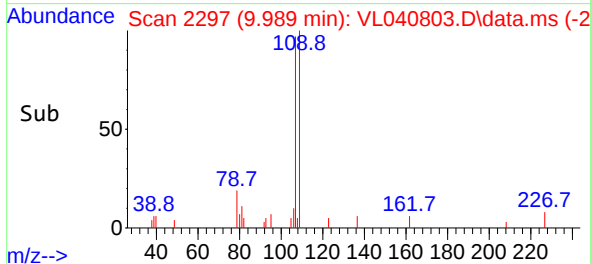
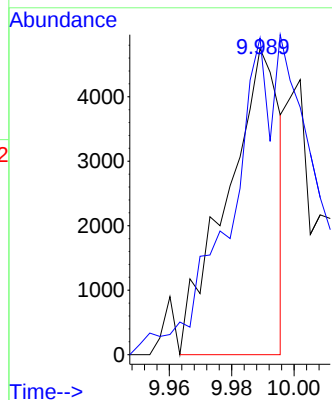
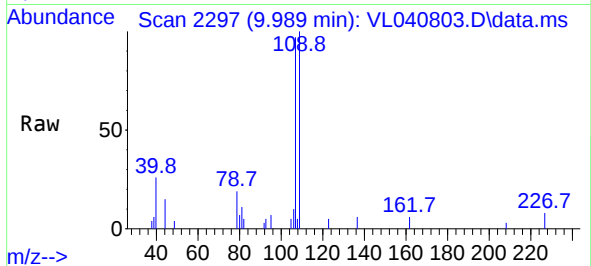




#54
1,2-Dibromoethane
Concen: 0.051 ppbv
RT: 9.989 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

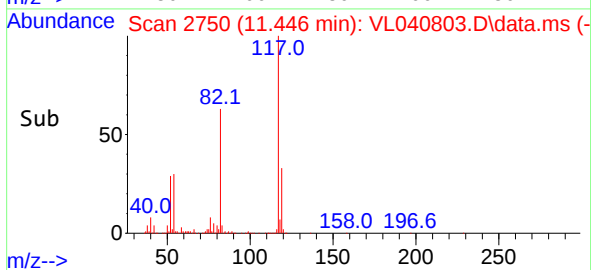
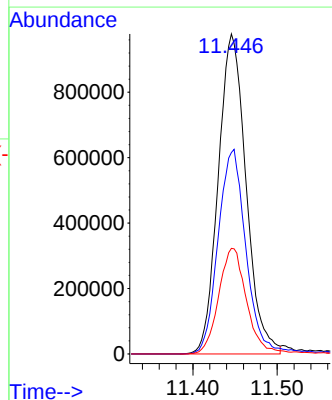
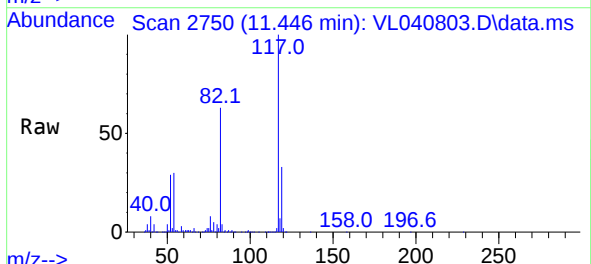
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

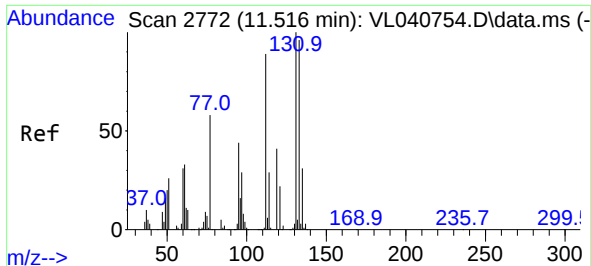
Tgt Ion:107 Resp: 5517
Ion Ratio Lower Upper
107 100
109 92.8 78.2 117.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 2750
Delta R.T. -0.029 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion:117 Resp: 2242063
Ion Ratio Lower Upper
117 100
82 64.9 46.6 70.0
119 33.6 26.0 39.0

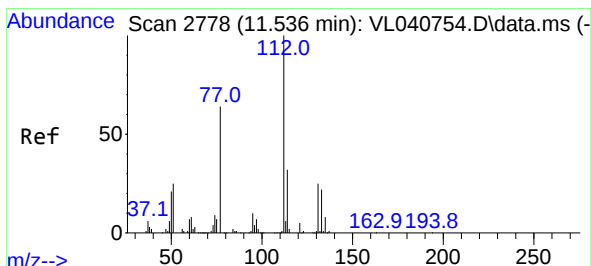
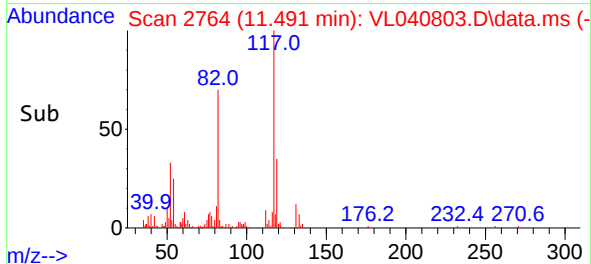
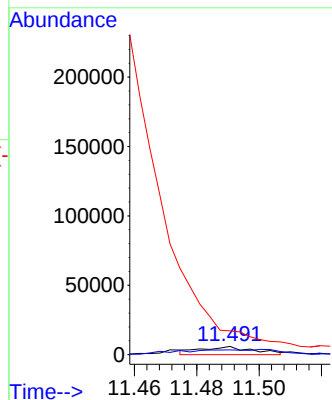
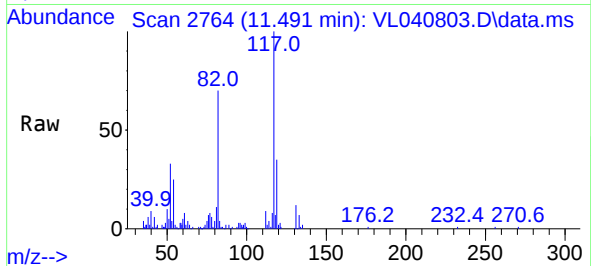




#56
1,1,1,2-Tetrachloroethane
Concen: 0.076 ppbv
RT: 11.491 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

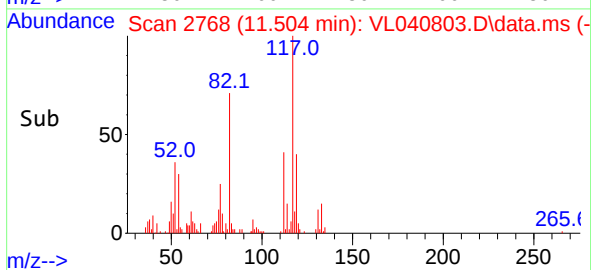
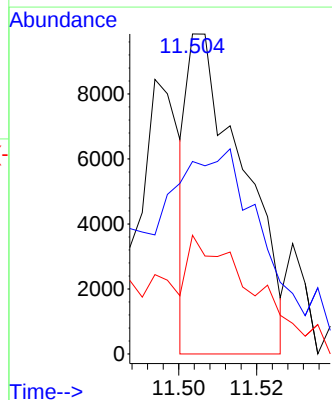
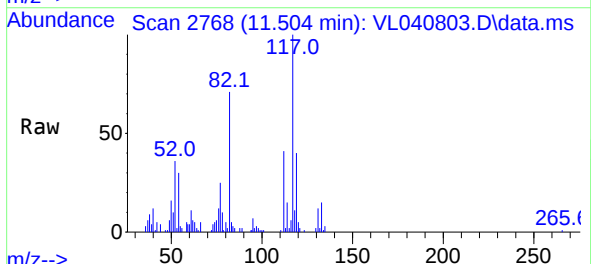
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

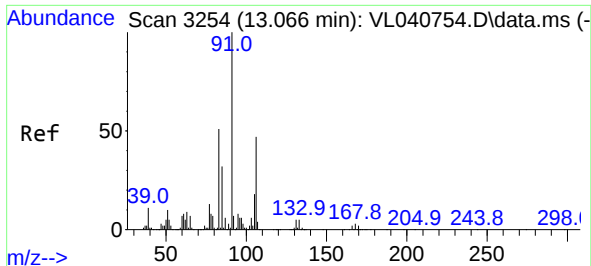
Tgt Ion:131 Resp: 6919
Ion Ratio Lower Upper
131 100
133 0.0 75.0 112.6#
119 0.0 45.4 68.0#



#57
Chlorobenzene
Concen: 0.060 ppbv
RT: 11.504 min Scan# 2768
Delta R.T. -0.032 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion:112 Resp: 9696
Ion Ratio Lower Upper
112 100
77 45.8 51.9 77.9#
114 30.3 28.6 35.0

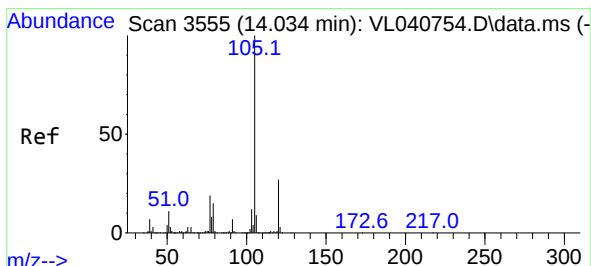
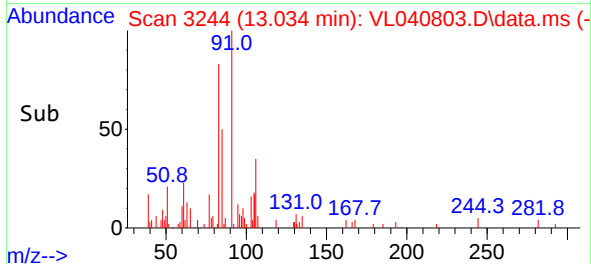
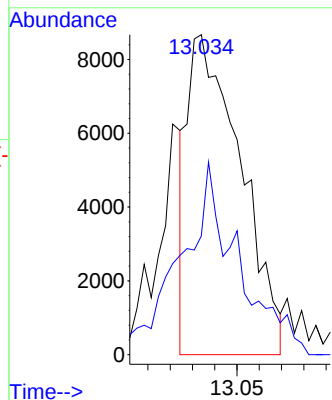
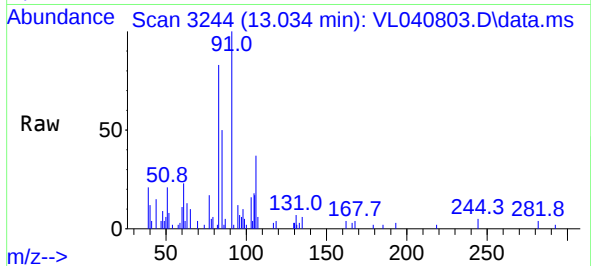




#60
o-Xylene
Concen: 0.065 ppbv
RT: 13.034 min Scan# 31
Delta R.T. -0.032 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

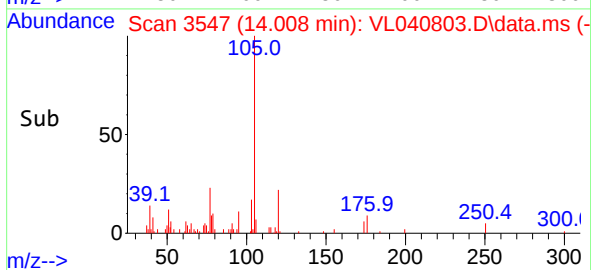
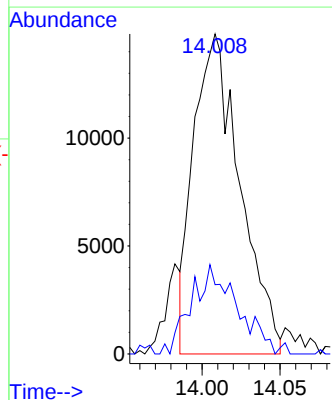
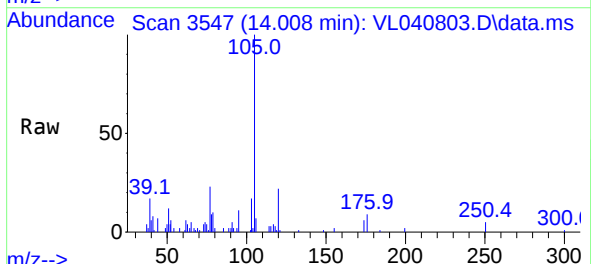
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

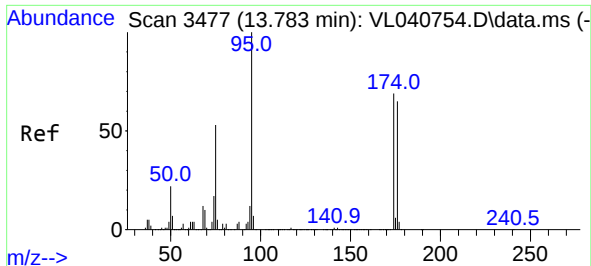
Tgt Ion: 91 Resp: 14330
Ion Ratio Lower Upper
91 100
106 65.2 23.5 70.5



#62
Isopropylbenzene
Concen: 0.090 ppbv
RT: 14.008 min Scan# 3547
Delta R.T. -0.026 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion: 105 Resp: 30625
Ion Ratio Lower Upper
105 100
120 28.5 21.5 32.3

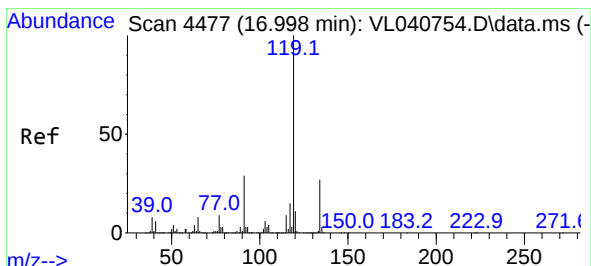
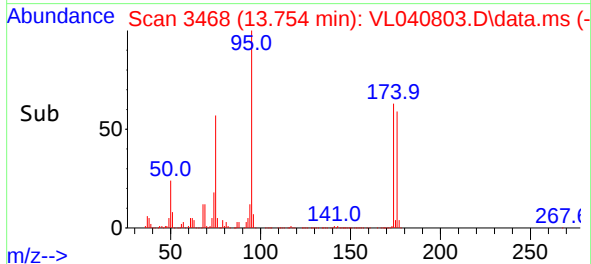
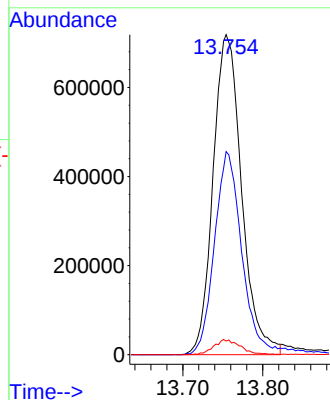
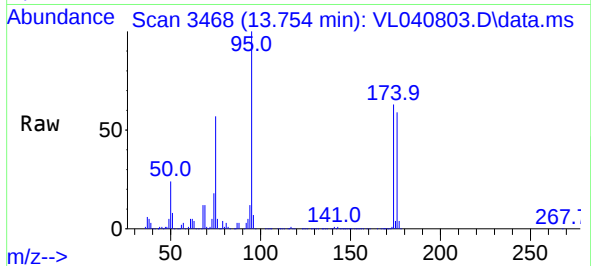




#68
1-Bromo-4-Fluorobenzene
Concen: 10.807 ppbv
RT: 13.754 min Scan# 3477
Delta R.T. -0.029 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

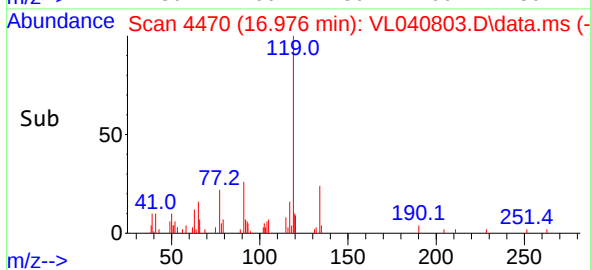
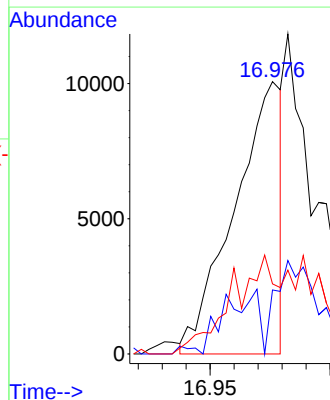
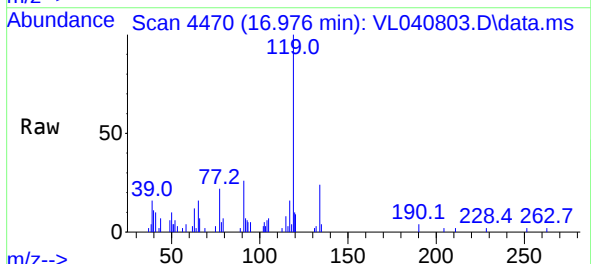
Instrument : MSVOA_L
ClientSampleId : MDL-AIR-03-QT4-2023DL

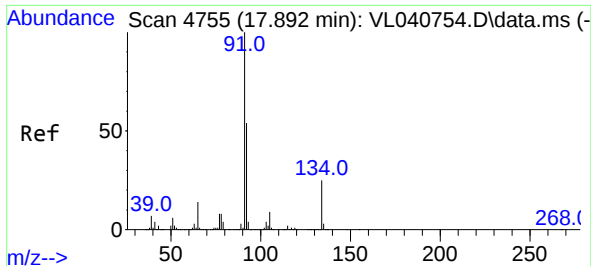
Tgt Ion: 95 Resp: 1782832
Ion Ratio Lower Upper
95 100
174 63.4 54.7 82.1
175 4.6 4.2 6.4



#69
p-Isopropyltoluene
Concen: 0.039 ppbv
RT: 16.976 min Scan# 4470
Delta R.T. -0.022 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion: 119 Resp: 13796
Ion Ratio Lower Upper
119 100
134 0.0 21.0 31.4#
91 69.9 22.8 34.2#

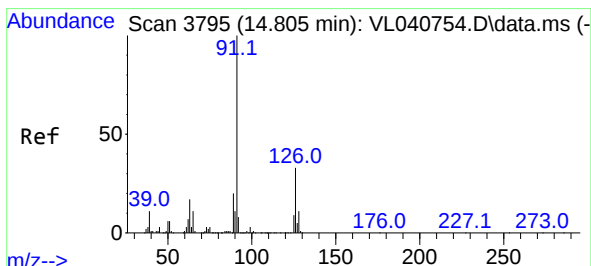
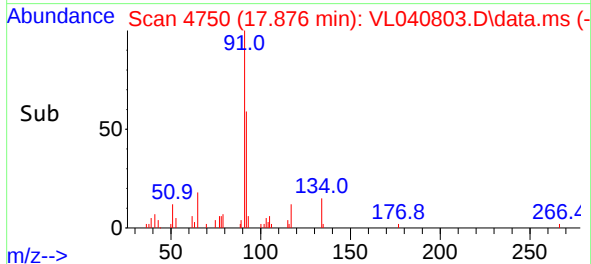
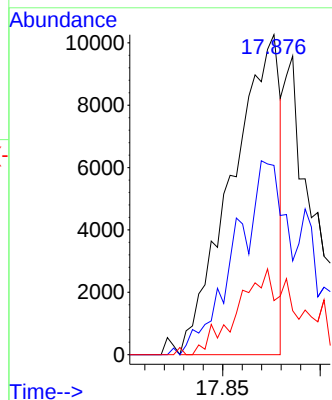
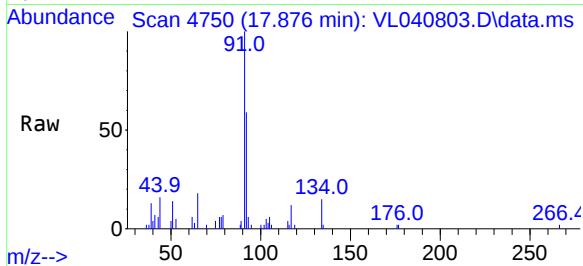




#70
n-Butylbenzene
Concen: 0.051 ppbv
RT: 17.876 min Scan# 41
Delta R.T. -0.016 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

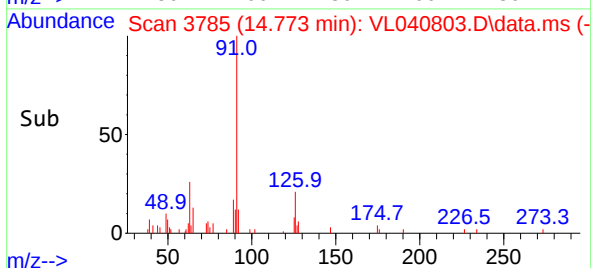
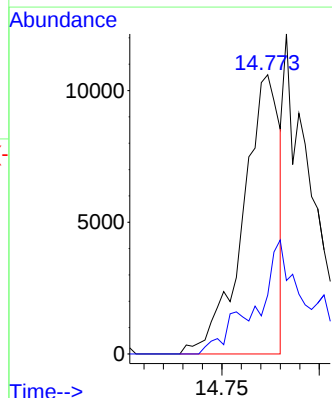
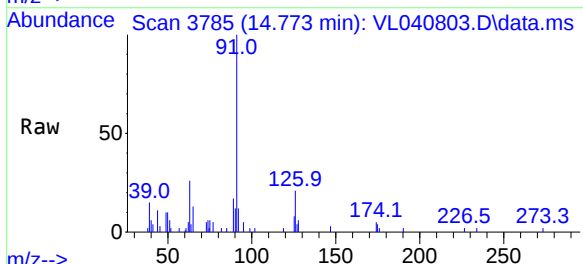
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

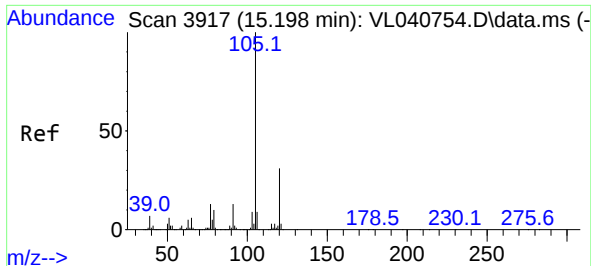
Tgt Ion: 91 Resp: 17535
Ion Ratio Lower Upper
91 100
92 93.5 44.1 66.1#
134 38.8 19.5 29.3#



#71
2-Chlorotoluene
Concen: 0.054 ppbv
RT: 14.773 min Scan# 3785
Delta R.T. -0.032 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion: 91 Resp: 13779
Ion Ratio Lower Upper
91 100
126 0.0 13.3 53.1#

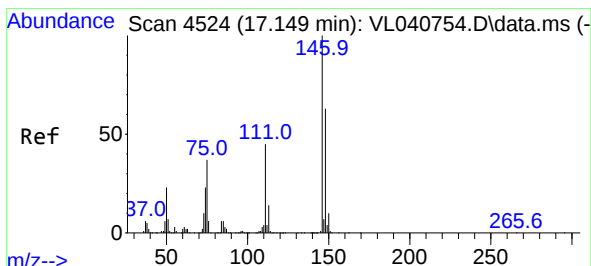
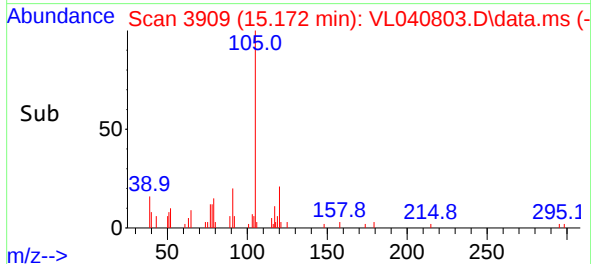
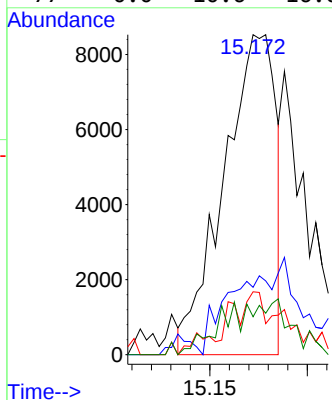
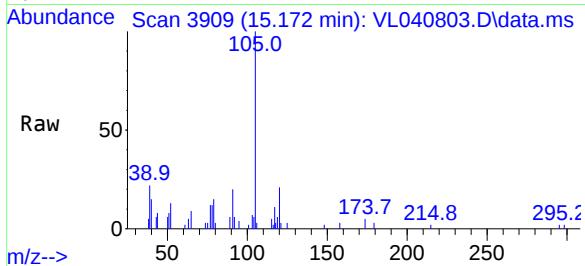




#72
4-Ethyltoluene
Concen: 0.061 ppbv
RT: 15.172 min Scan# 3917
Delta R.T. -0.026 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

Tgt Ion:	105	Resp:	15747
Ion	Ratio	Lower	Upper
105	100		
120	0.0	25.0	37.4#
91	23.9	9.8	14.8#
77	0.0	10.6	16.0#



#77
1,2-Dichlorobenzene
Concen: 0.039 ppbv
RT: 17.117 min Scan# 4514
Delta R.T. -0.032 min
Lab File: VL040803.D
Acq: 25 Oct 2023 16:54

Tgt Ion:	146	Resp:	5930
Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.9	68.8#
148	0.0	32.3	96.8#

