

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050624\
 Data File : VL041226.D
 Acq On : 6 May 2024 20:17
 Operator : SY/MD
 Sample : P2353-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: May 07 05:27:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 07 05:19:44 2024
 Response via : Initial Calibration

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

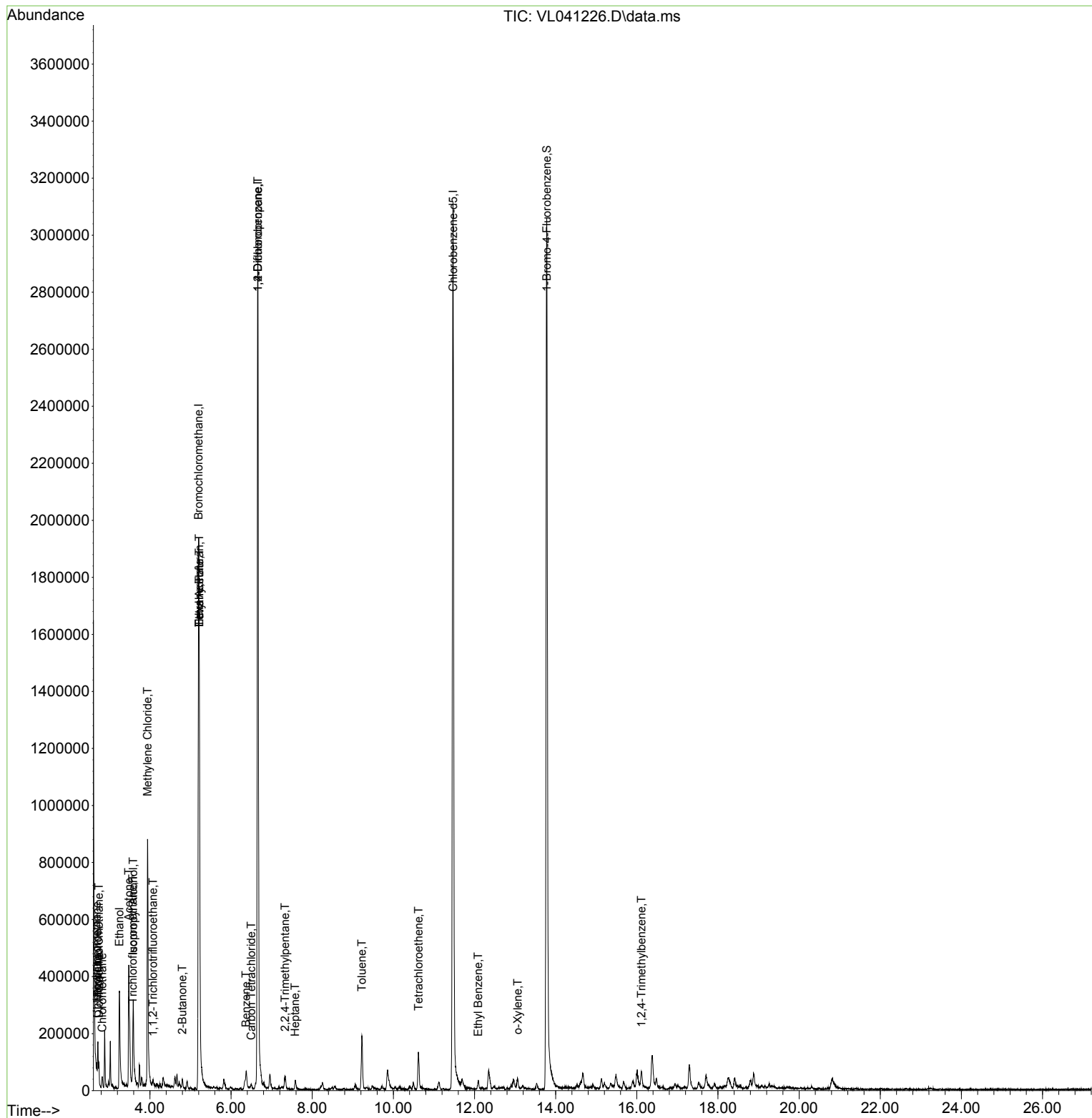
Internal Standards						
1) Bromochloromethane	5.198	49	857136	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2239343	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2060455	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1554771	9.995	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.742	85	51375	0.443	ppbv	90
3) Chlorodifluoromethane	2.687	51	87105	0.669	ppbv #	91
4) Chloromethane	2.825	50	27962	0.547	ppbv	91
5) Vinyl Chloride	2.713	62	1850	0.036	ppbv #	68
9) Propene	2.716	41	32628	0.640	ppbv #	83
10) Heptane	7.581	43	3860	0.031	ppbv #	1
11) Trichlorofluoromethane	3.574	101	29703	0.252	ppbv #	83
12) 1,1,2-Trichlorotrifluo...	4.076	101	6002	0.069	ppbv	96
13) Ethanol	3.246	45	383565	33.586	ppbv	97
15) Acetone	3.478	43	468137	4.628	ppbv	96
19) Isopropyl Alcohol	3.587	45	286755	4.320	ppbv #	45
20) Methylene Chloride	3.944	84	277954	7.902	ppbv	95
25) Ethyl Acetate	5.217	43	256697	1.271	ppbv #	78
26) Hexane	5.217	57	358216	3.976	ppbv #	41
34) 2-Butanone	4.799	43	33280	0.292	ppbv	92
35) Carbon Tetrachloride	6.494	117	3835	0.031	ppbv #	89
36) Benzene	6.368	78	14927	0.079	ppbv	98
39) 1,2-Dichloropropane	6.658	63	574726	7.936	ppbv #	23
41) Tetrahydrofuran	5.217	42	133784	1.621	ppbv #	51
44) 2,2,4-Trimethylpentane	7.330	57	21769	0.067	ppbv #	33
52) Tetrachloroethene	10.622	164	28128	0.426	ppbv #	83
53) Toluene	9.224	91	133829	0.614	ppbv	96
58) Ethyl Benzene	12.092	91	13079	0.046	ppbv #	87
60) o-Xylene	13.063	91	17366	0.078	ppbv #	52
74) 1,2,4-Trimethylbenzene	16.114	105	25853	0.104	ppbv #	65

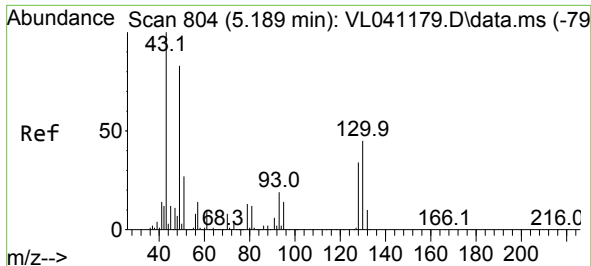
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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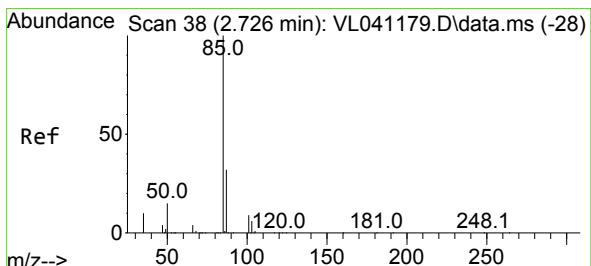
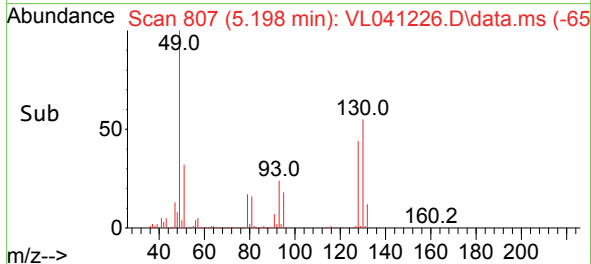
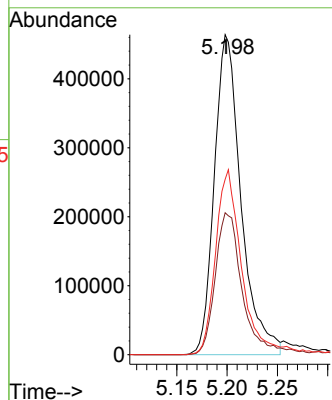
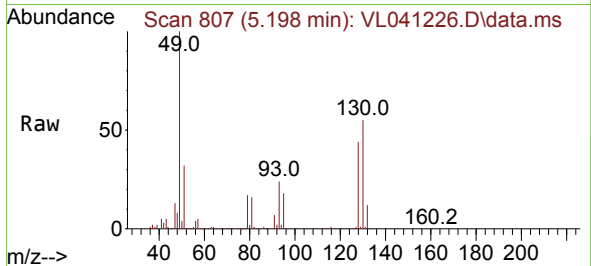




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.198 min Scan# 80
 Delta R.T. 0.003 min
 Lab File: VL041226.D
 Acq: 6 May 2024 20:17

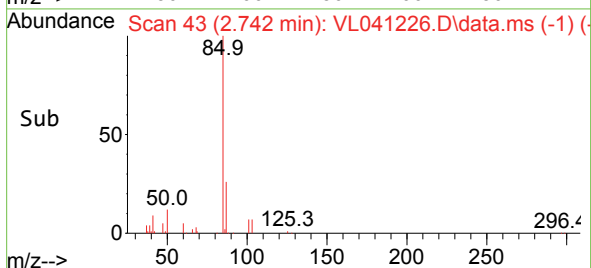
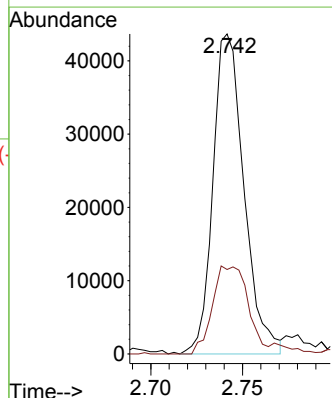
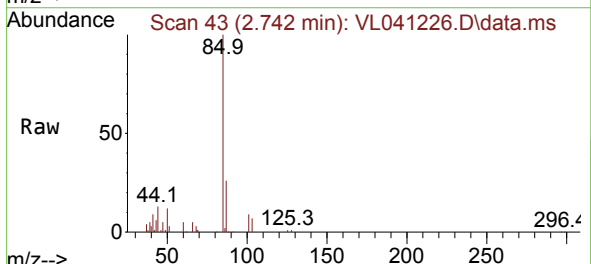
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

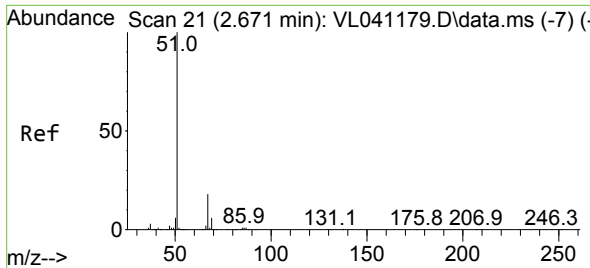
Tgt Ion: 49 Resp: 857136
 Ion Ratio Lower Upper
 49 100
 128 46.8 21.5 64.5
 130 58.4 27.2 81.6



#2
 Dichlorodifluoromethane
 Concen: 0.443 ppbv
 RT: 2.742 min Scan# 43
 Delta R.T. 0.003 min
 Lab File: VL041226.D
 Acq: 6 May 2024 20:17

Tgt Ion: 85 Resp: 51375
 Ion Ratio Lower Upper
 85 100
 87 26.4 25.7 38.5

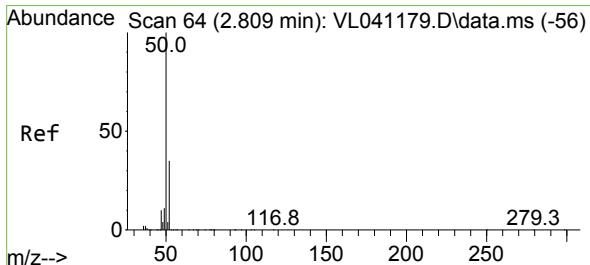
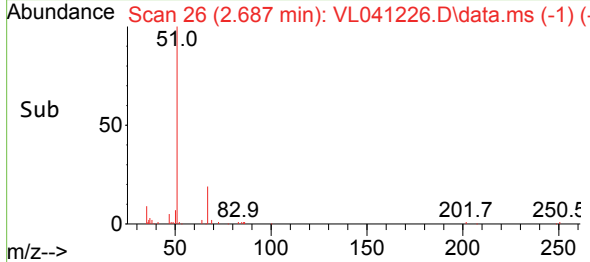
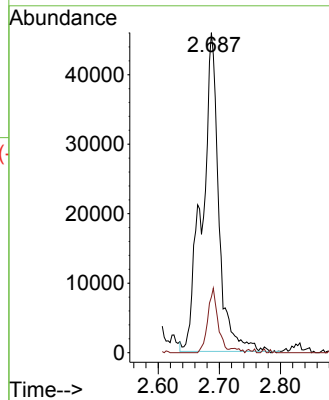
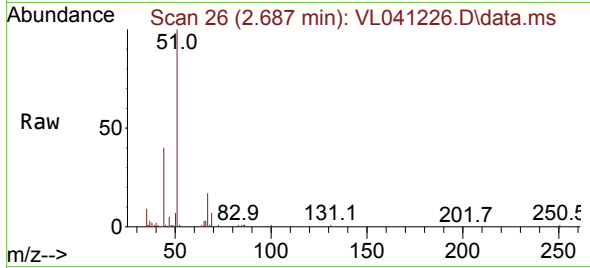




#3
Chlorodifluoromethane
Concen: 0.669 ppbv
RT: 2.687 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

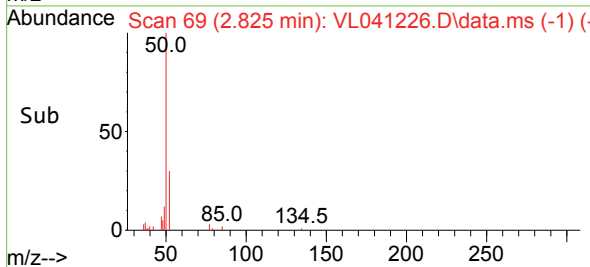
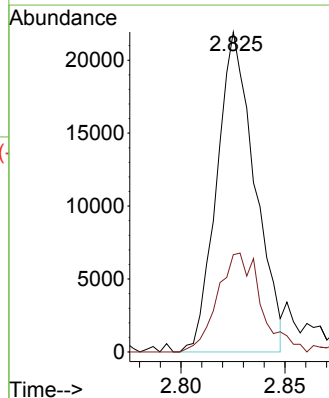
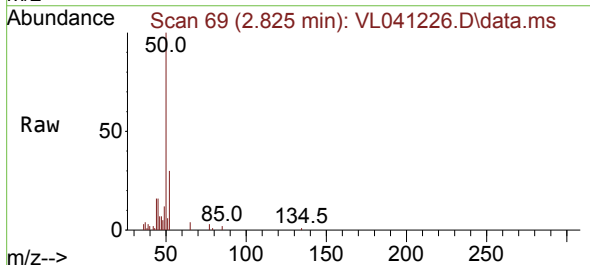
Instrument :
MSVOA_L
ClientSampleId :
IA1

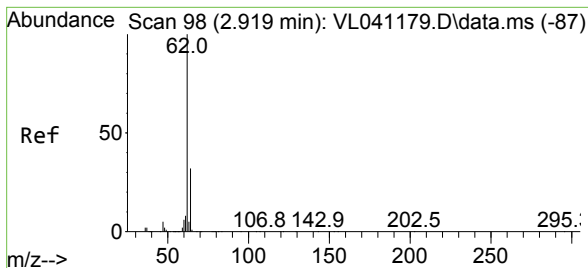
Tgt Ion: 51 Resp: 87105
Ion Ratio Lower Upper
51 100
67 13.5 14.0 21.0#



#4
Chloromethane
Concen: 0.547 ppbv
RT: 2.825 min Scan# 69
Delta R.T. 0.003 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

Tgt Ion: 50 Resp: 27962
Ion Ratio Lower Upper
50 100
52 30.4 28.3 42.5

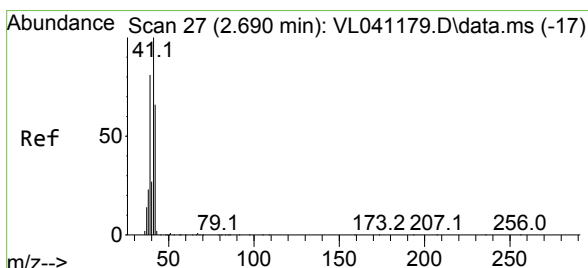
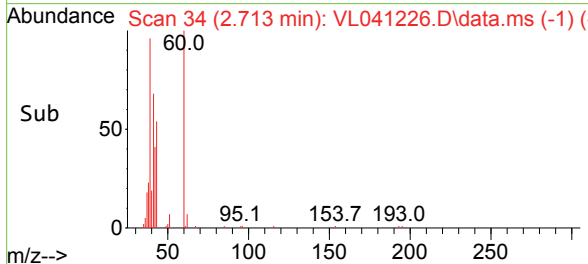
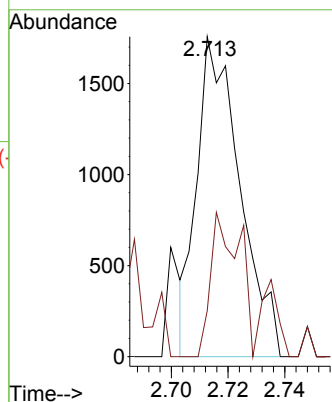
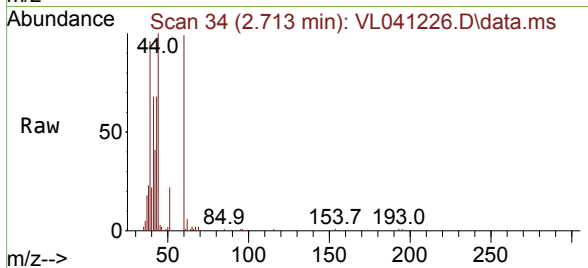




#5
 Vinyl Chloride
 Concen: 0.036 ppbv
 RT: 2.713 min Scan# 34
 Delta R.T. -0.215 min
 Lab File: VL041226.D
 Acq: 6 May 2024 20:17

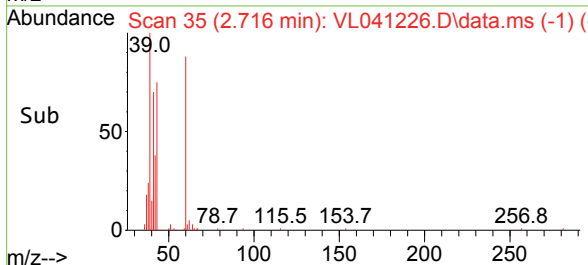
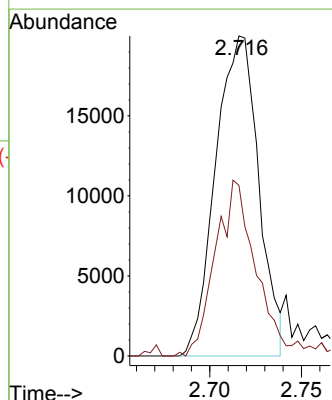
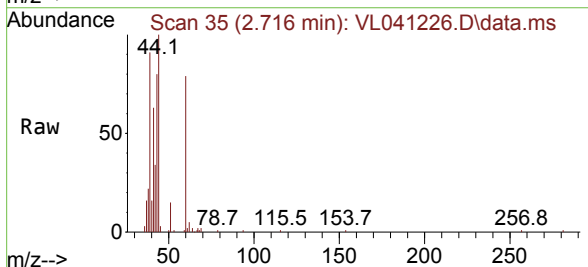
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

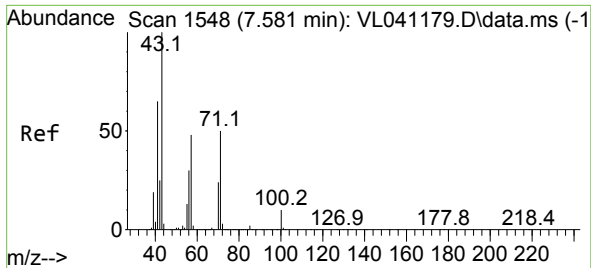
Tgt Ion: 62 Resp: 1850
 Ion Ratio Lower Upper
 62 100
 64 14.3 25.7 38.5#



#9
 Propene
 Concen: 0.640 ppbv
 RT: 2.716 min Scan# 35
 Delta R.T. 0.013 min
 Lab File: VL041226.D
 Acq: 6 May 2024 20:17

Tgt Ion: 41 Resp: 32628
 Ion Ratio Lower Upper
 41 100
 42 54.9 55.3 82.9#

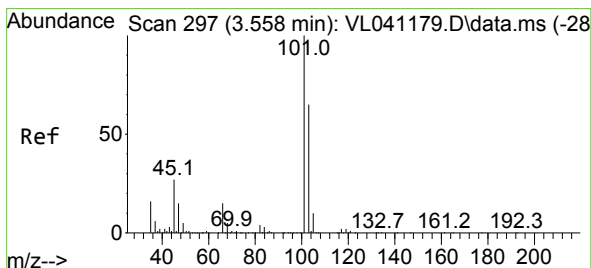
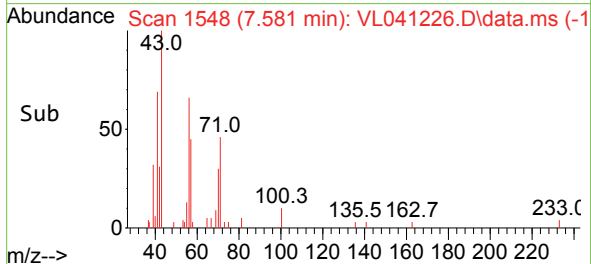
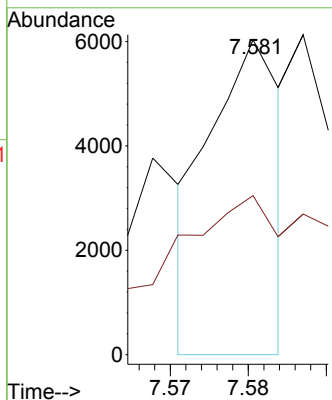
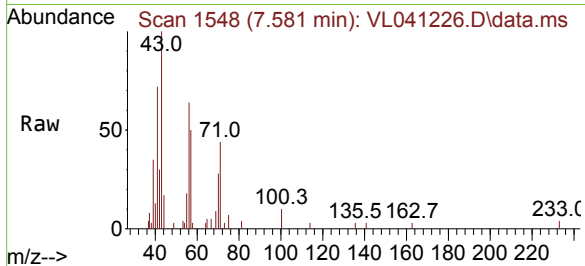




#10
Heptane
Concen: 0.031 ppbv
RT: 7.581 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

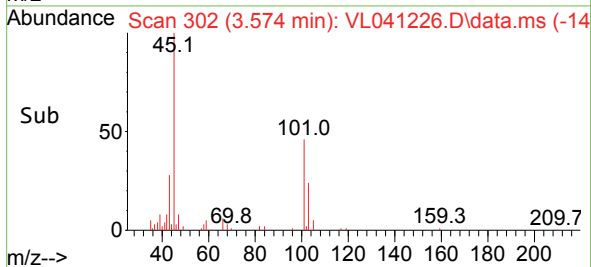
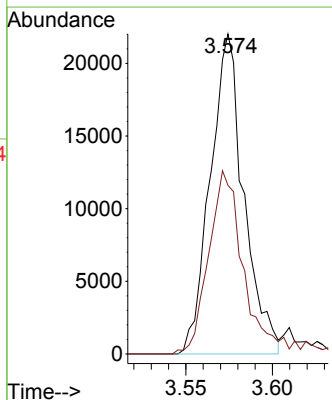
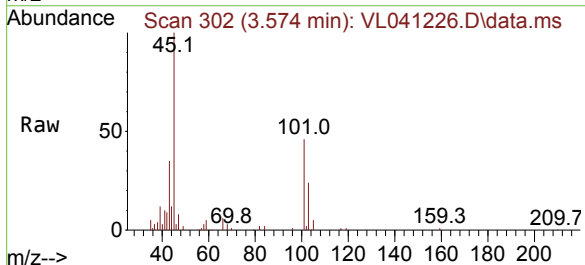
Instrument :
MSVOA_L
ClientSampleId :
IA1

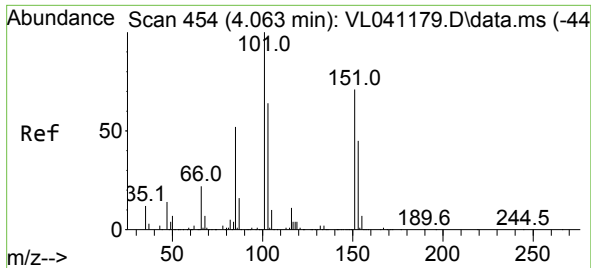
Tgt Ion: 43 Resp: 3860
Ion Ratio Lower Upper
43 100
57 174.1 38.7 58.1#



#11
Trichlorofluoromethane
Concen: 0.252 ppbv
RT: 3.574 min Scan# 302
Delta R.T. 0.006 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

Tgt Ion: 101 Resp: 29703
Ion Ratio Lower Upper
101 100
103 51.4 51.6 77.4#

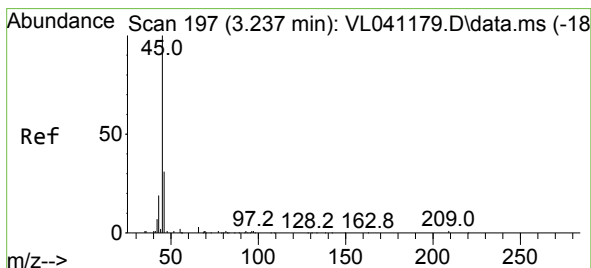
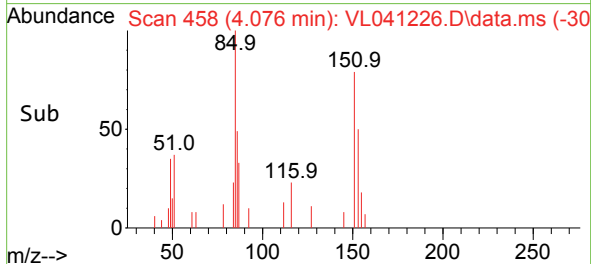
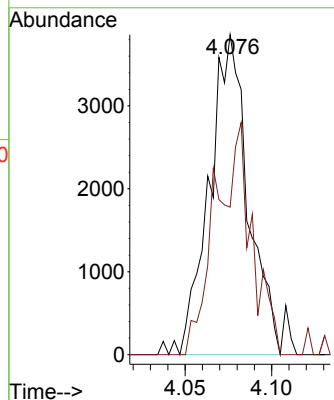
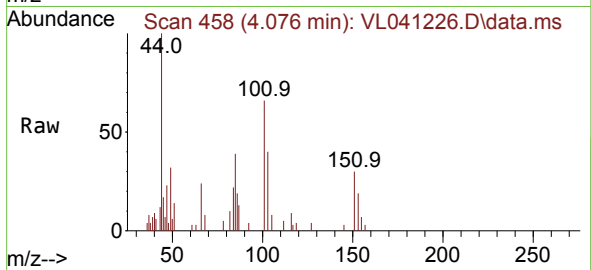




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.069 ppbv
RT: 4.076 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

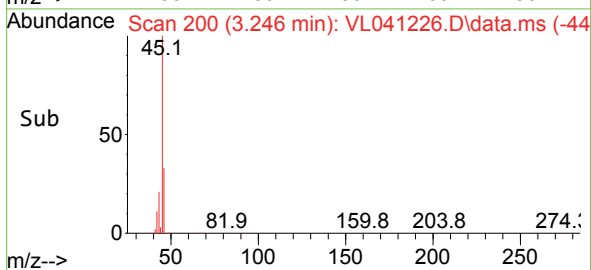
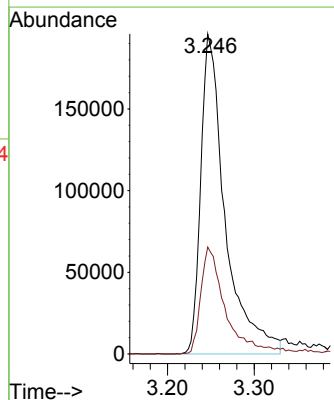
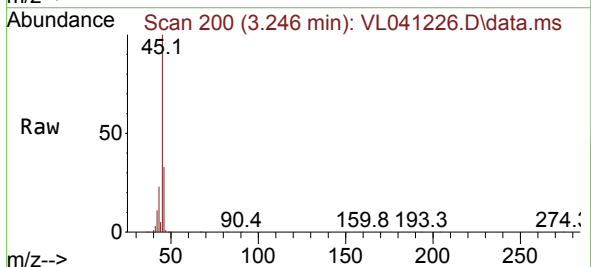
Instrument :
MSVOA_L
ClientSampleId :
IA1

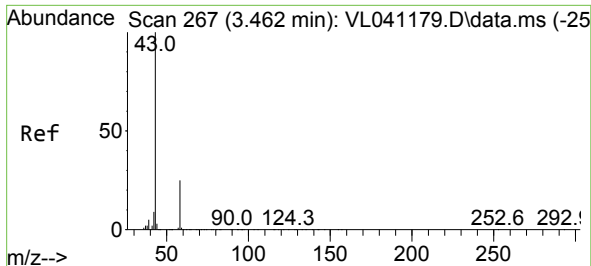
Tgt Ion:101 Resp: 6002
Ion Ratio Lower Upper
101 100
151 67.9 56.8 85.2



#13
Ethanol
Concen: 33.586 ppbv
RT: 3.246 min Scan# 200
Delta R.T. 0.003 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

Tgt Ion: 45 Resp: 383565
Ion Ratio Lower Upper
45 100
46 34.9 14.8 59.0





#15

Acetone

Concen: 4.628 ppbv

RT: 3.478 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041226.D

Acq: 6 May 2024 20:17

Instrument :

MSVOA_L

ClientSampleId :

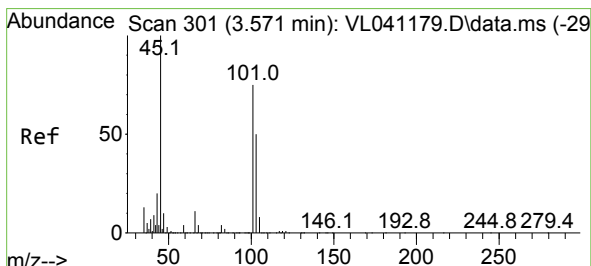
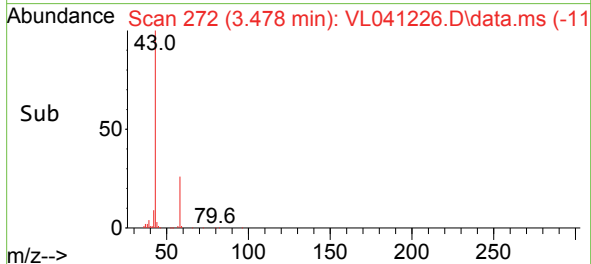
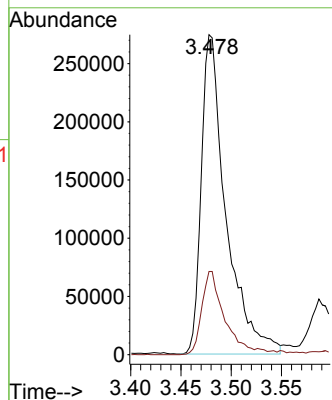
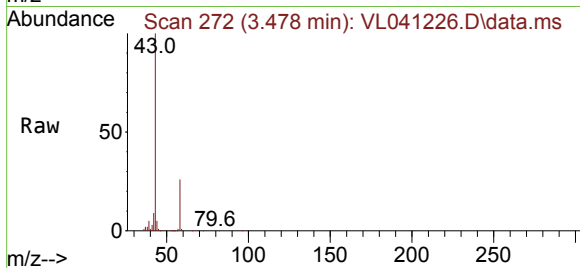
IA1

Tgt Ion: 43 Resp: 468137

Ion Ratio Lower Upper

43 100

58 24.9 21.4 32.0



#19

Isopropyl Alcohol

Concen: 4.320 ppbv

RT: 3.587 min Scan# 306

Delta R.T. 0.006 min

Lab File: VL041226.D

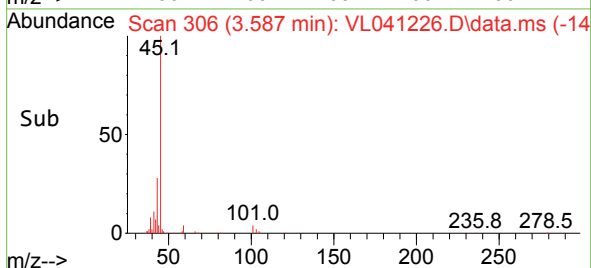
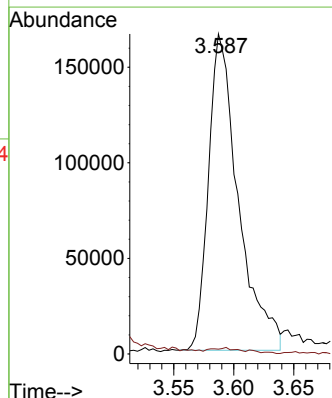
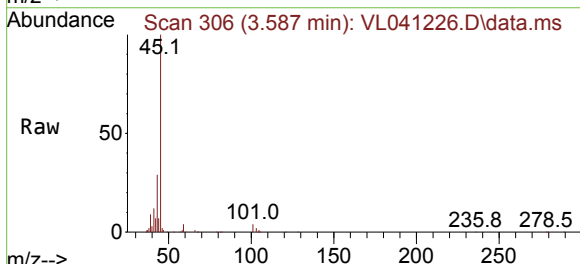
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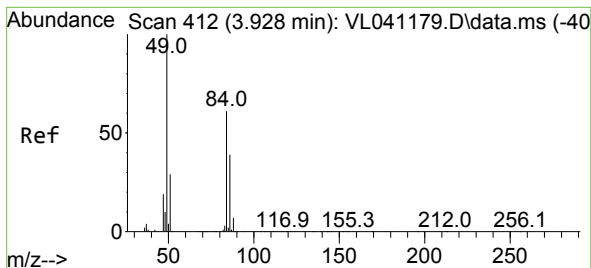
Tgt Ion: 45 Resp: 286755

Ion Ratio Lower Upper

45 100

58 2.2 26.8 40.2#





#20

Methylene Chloride

Concen: 7.902 ppbv

RT: 3.944 min Scan# 412

Delta R.T. 0.006 min

Lab File: VL041226.D

Acq: 6 May 2024 20:17

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 84 Resp: 277954

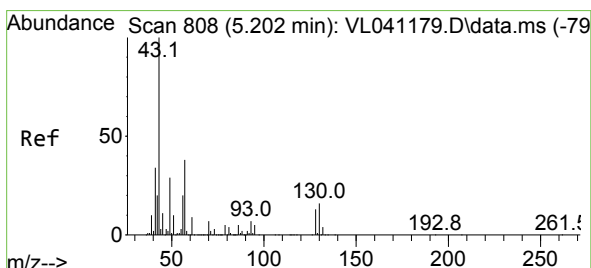
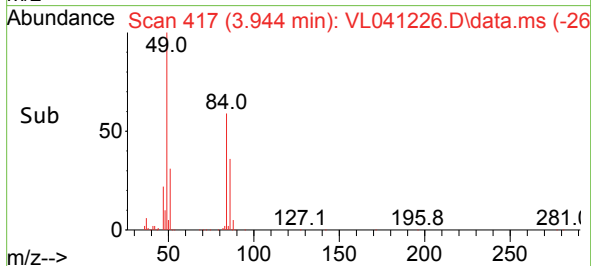
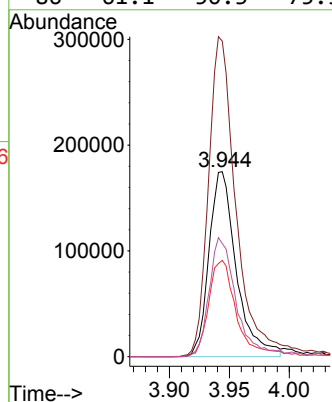
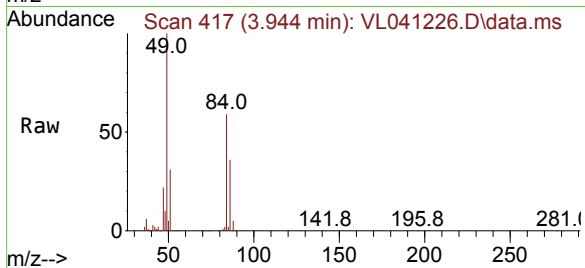
Ion Ratio Lower Upper

84 100

49 170.3 130.4 195.6

51 51.9 38.0 57.0

86 61.1 50.3 75.5



#25

Ethyl Acetate

Concen: 1.271 ppbv

RT: 5.217 min Scan# 813

Delta R.T. 0.013 min

Lab File: VL041226.D

Acq: 6 May 2024 20:17

Tgt Ion: 43 Resp: 256697

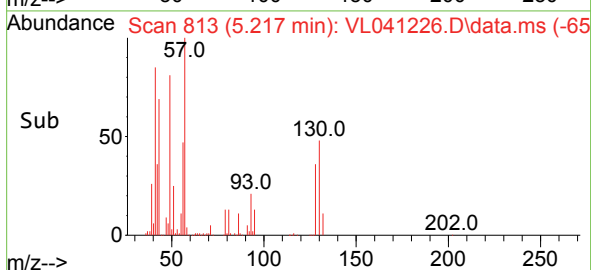
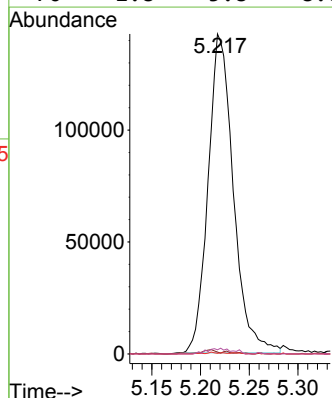
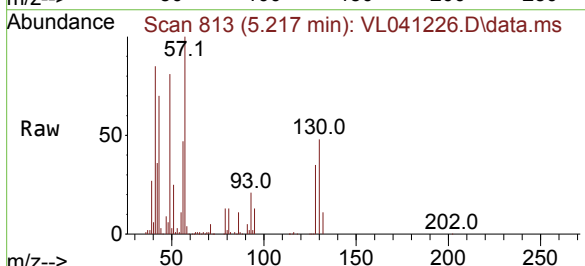
Ion Ratio Lower Upper

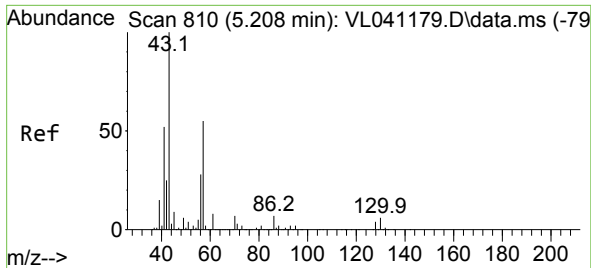
43 100

45 1.2 8.2 12.2#

61 0.5 7.7 11.5#

70 1.8 5.8 8.6#

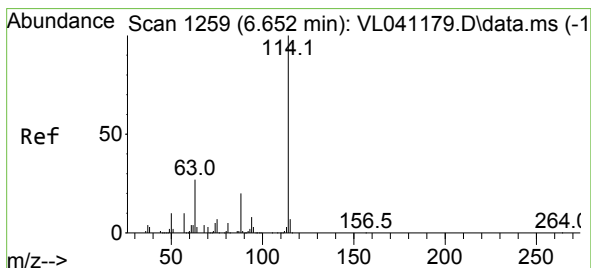
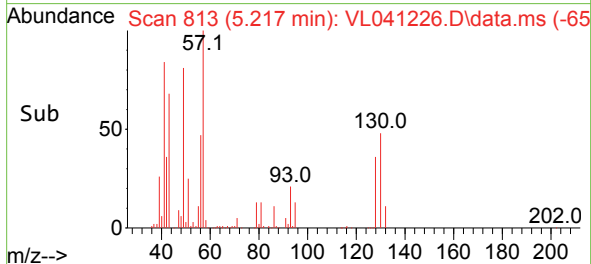
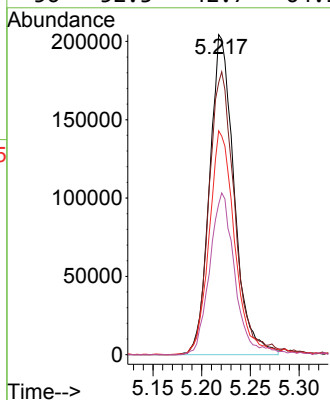
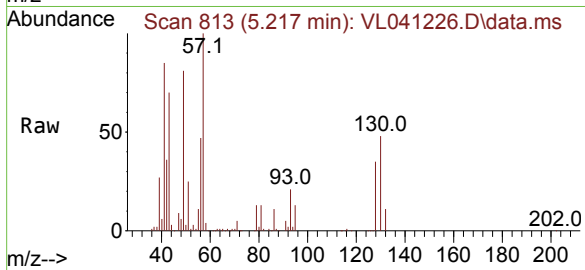




#26
Hexane
Concen: 3.976 ppbv
RT: 5.217 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

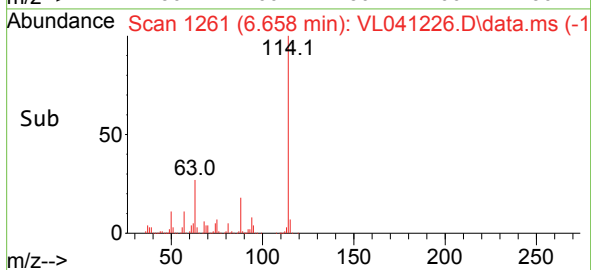
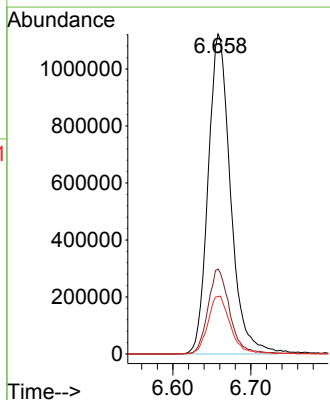
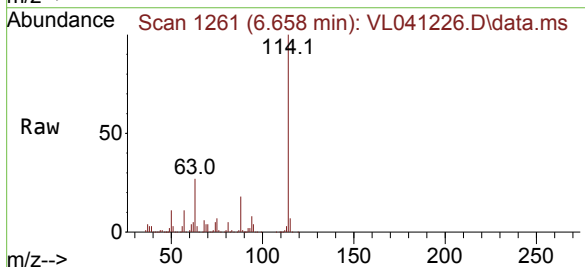
Instrument :
MSVOA_L
ClientSampleId :
IA1

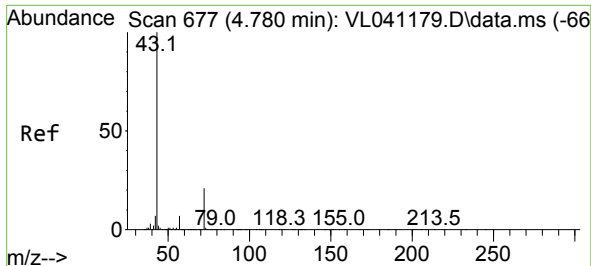
Tgt Ion: 57 Resp: 358216
Ion Ratio Lower Upper
57 100
41 93.9 75.8 113.8
43 73.7 187.0 280.4#
56 52.3 42.7 64.1



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. 0.003 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

Tgt Ion: 114 Resp: 2239343
Ion Ratio Lower Upper
114 100
63 26.1 21.8 32.6
88 18.3 15.2 22.8

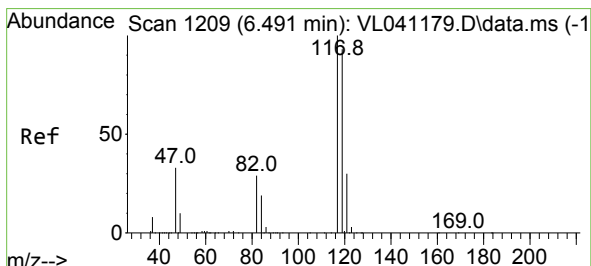
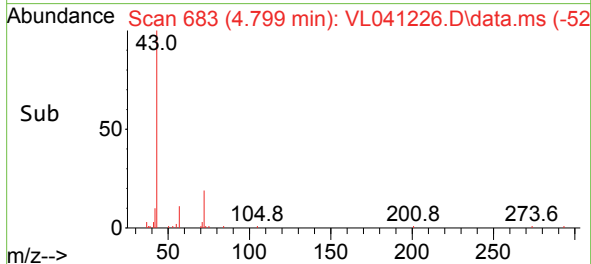
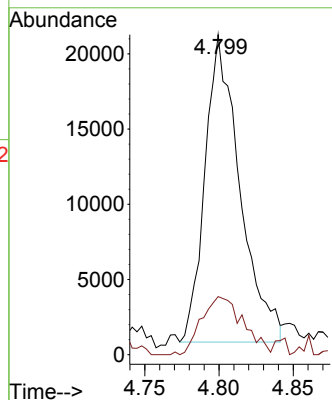
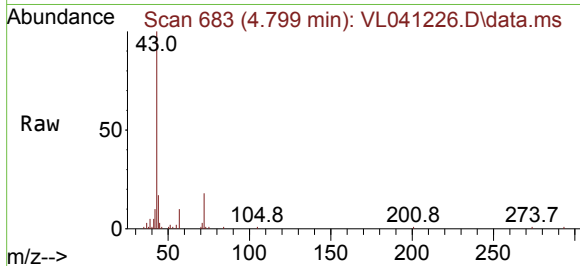




#34
2-Butanone
Concen: 0.292 ppbv
RT: 4.799 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

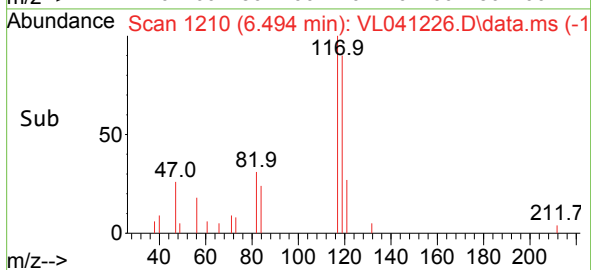
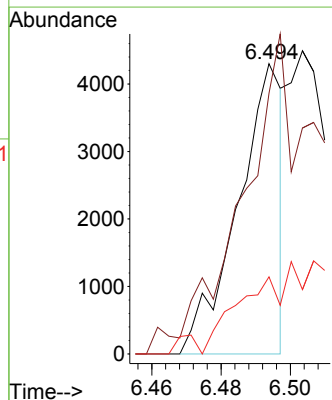
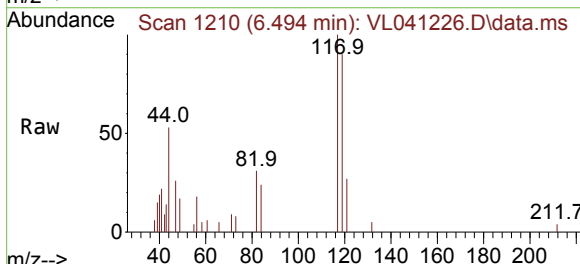
Instrument :
MSVOA_L
ClientSampleId :
IA1

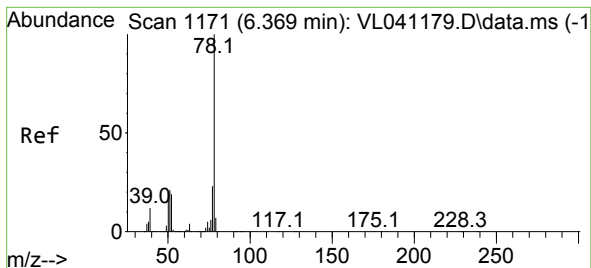
Tgt Ion: 43 Resp: 33280
Ion Ratio Lower Upper
43 100
72 25.6 17.3 25.9



#35
Carbon Tetrachloride
Concen: 0.031 ppbv
RT: 6.494 min Scan# 1210
Delta R.T. -0.000 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

Tgt Ion: 117 Resp: 3835
Ion Ratio Lower Upper
117 100
119 84.3 74.3 111.5
121 20.6 23.8 35.8#





#36

Benzene

Concen: 0.079 ppbv

RT: 6.368 min Scan# 1171

Delta R.T. -0.003 min

Lab File: VL041226.D

Acq: 6 May 2024 20:17

Instrument :

MSVOA_L

ClientSampleId :

IA1

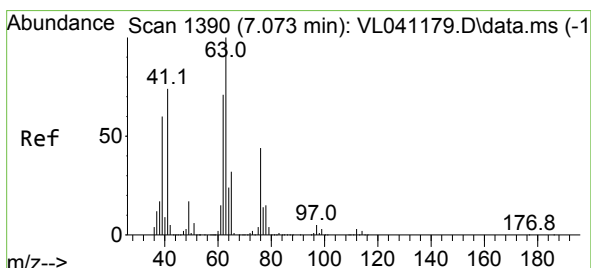
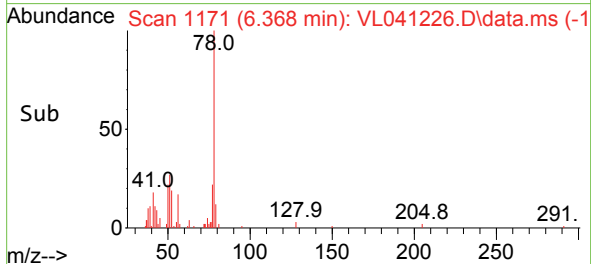
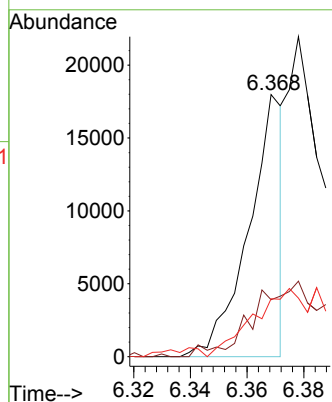
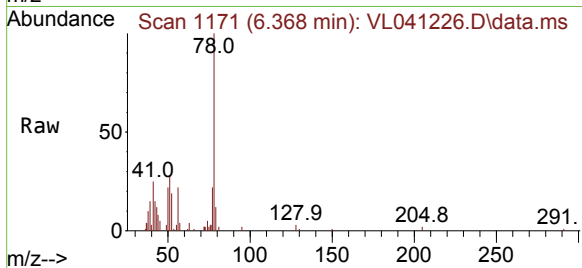
Tgt Ion: 78 Resp: 14927

Ion Ratio Lower Upper

78 100

77 21.7 18.3 27.5

50 20.5 15.9 23.9



#39

1,2-Dichloropropane

Concen: 7.936 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.415 min

Lab File: VL041226.D

Acq: 6 May 2024 20:17

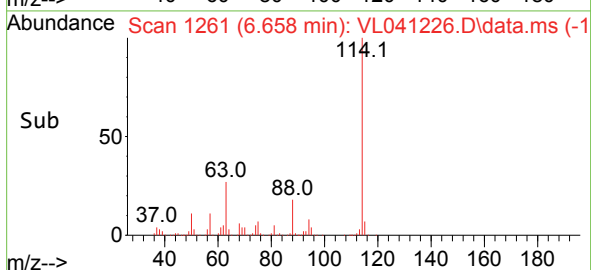
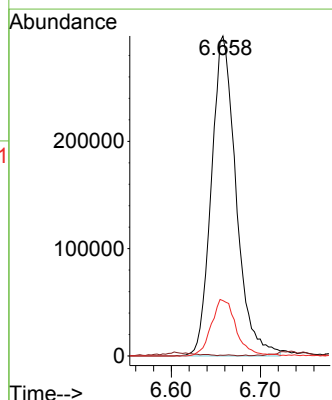
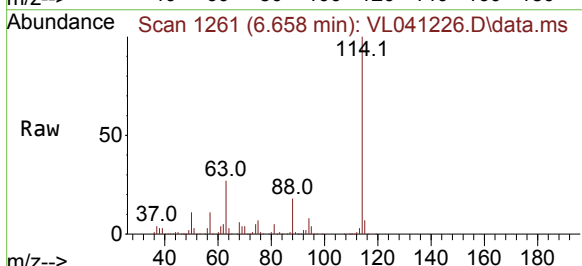
Tgt Ion: 63 Resp: 574726

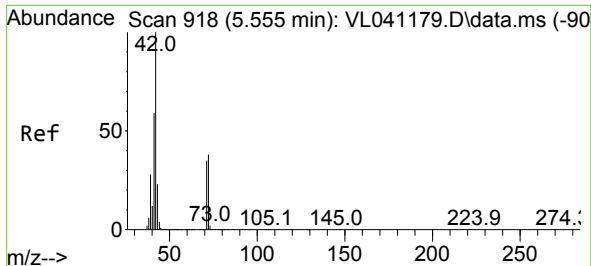
Ion Ratio Lower Upper

63 100

41 0.0 59.4 89.0#

62 17.3 56.8 85.2#





#41

Tetrahydrofuran

Concen: 1.621 ppbv

RT: 5.217 min Scan# 81

Delta R.T. -0.341 min

Lab File: VL041226.D

Acq: 6 May 2024 20:17

Instrument :

MSVOA_L

ClientSampleId :

IA1

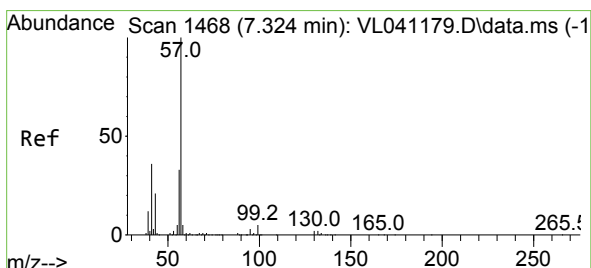
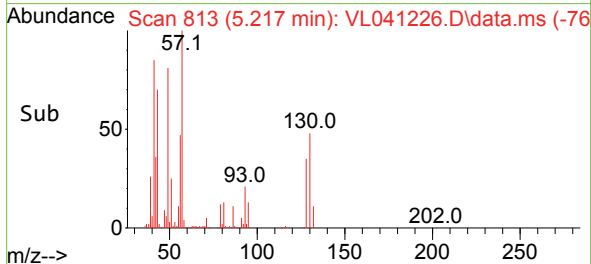
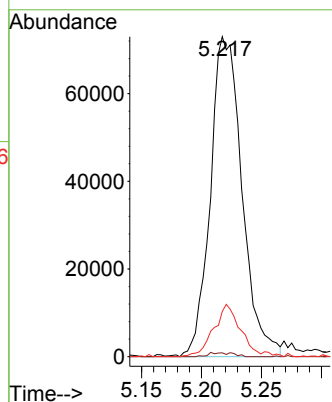
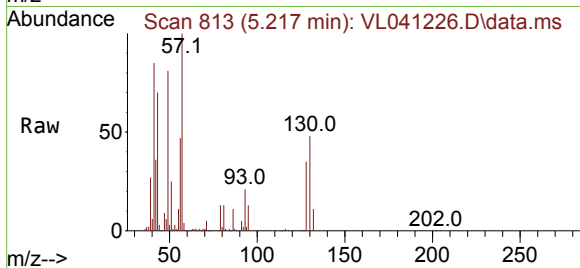
Tgt Ion: 42 Resp: 133784

Ion Ratio Lower Upper

42 100

72 1.0 29.4 44.0#

71 14.3 29.1 43.7#



#44

2,2,4-Trimethylpentane

Concen: 0.067 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. 0.003 min

Lab File: VL041226.D

Acq: 6 May 2024 20:17

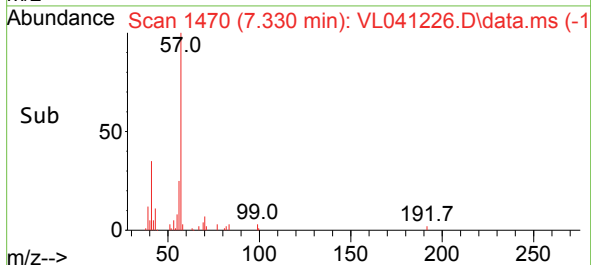
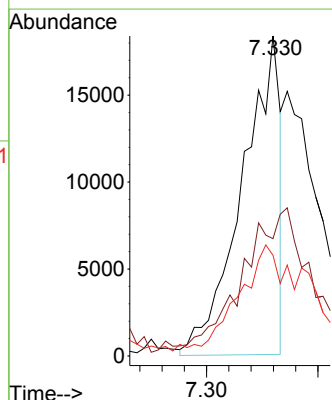
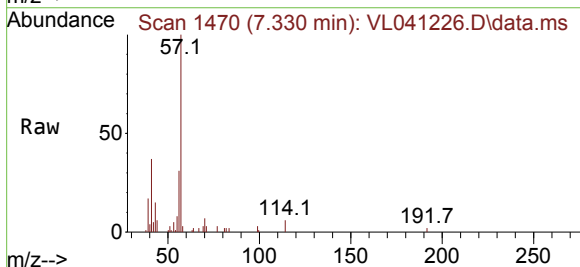
Tgt Ion: 57 Resp: 21769

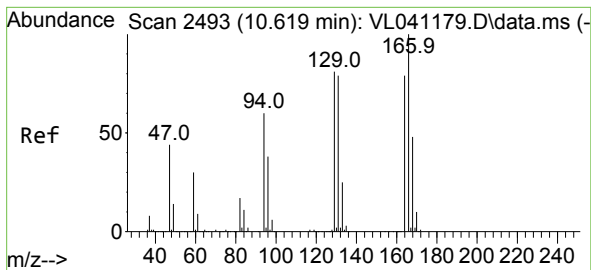
Ion Ratio Lower Upper

57 100

41 0.0 29.5 44.3#

56 71.7 25.3 37.9#





#52

Tetrachloroethene

Concen: 0.426 ppbv

RT: 10.622 min Scan# 2494

Delta R.T. 0.010 min

Lab File: VL041226.D

Acq: 6 May 2024 20:17

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:164 Resp: 28128

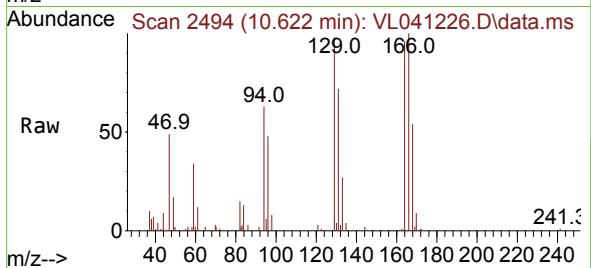
Ion Ratio Lower Upper

164 100

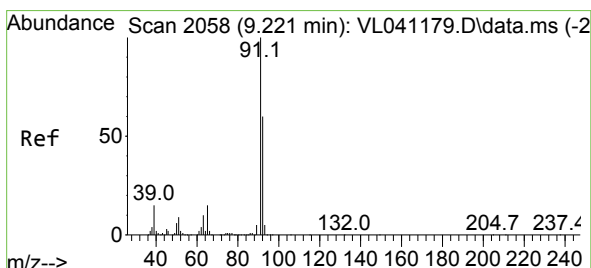
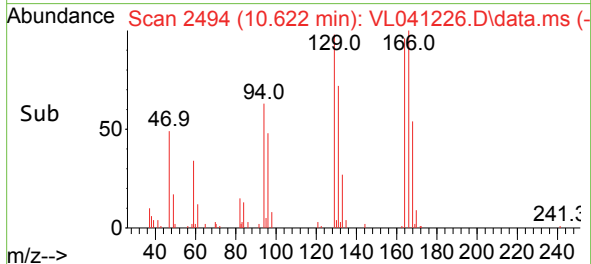
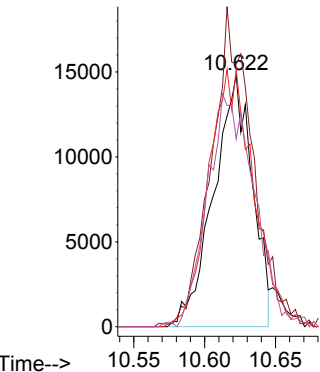
166 103.2 101.1 151.7

129 101.1 81.7 122.5

131 72.8 80.4 120.6#



Abundance



#53

Toluene

Concen: 0.614 ppbv

RT: 9.224 min Scan# 2059

Delta R.T. 0.003 min

Lab File: VL041226.D

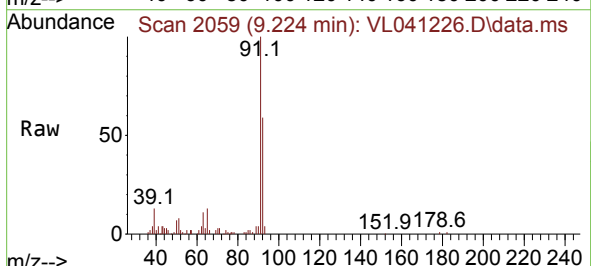
Acq: 6 May 2024 20:17

Tgt Ion: 91 Resp: 133829

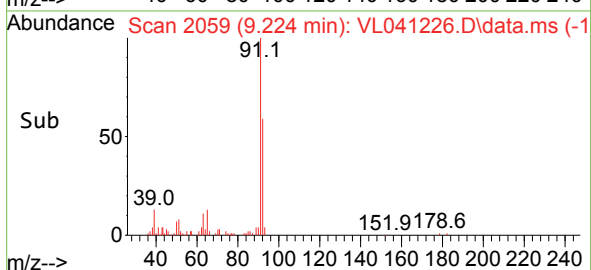
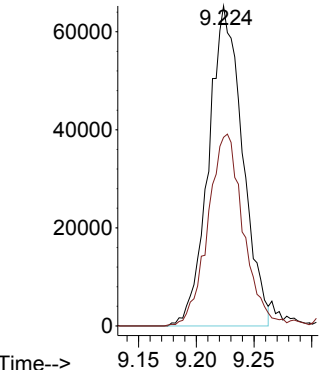
Ion Ratio Lower Upper

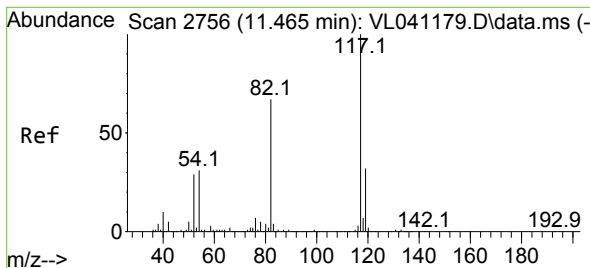
91 100

92 63.5 48.2 72.4



Abundance

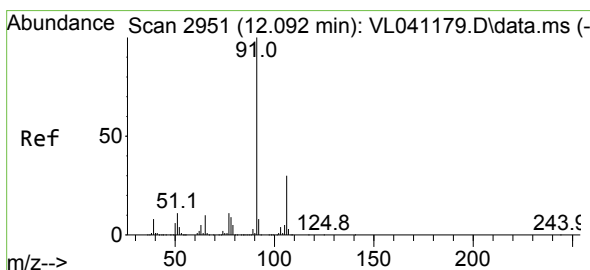
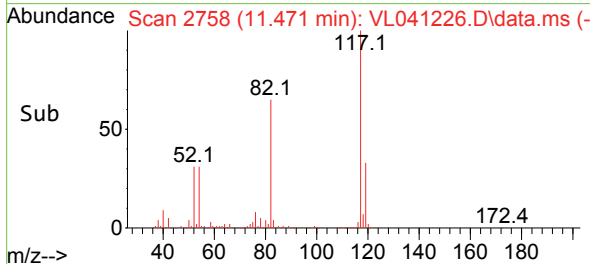
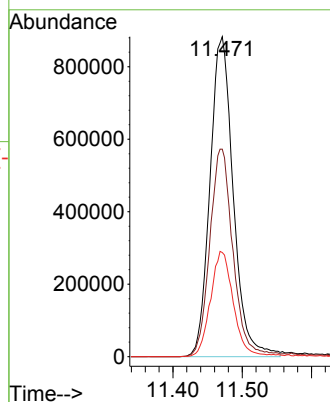
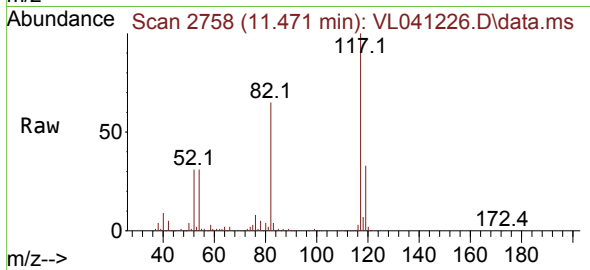




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

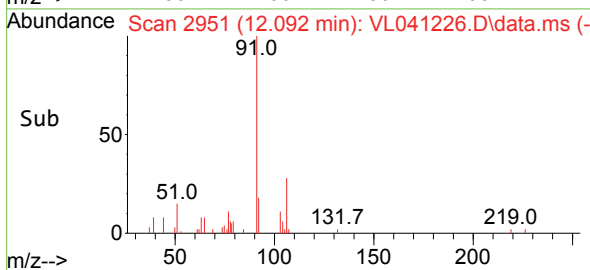
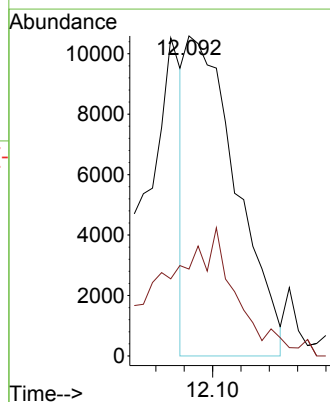
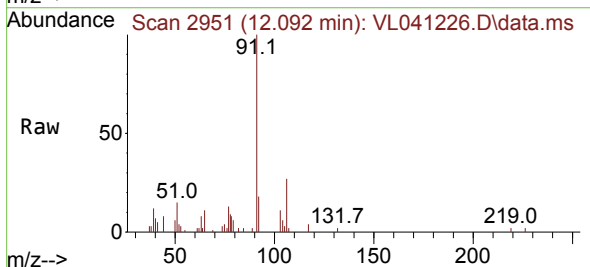
Instrument :
MSVOA_L
ClientSampleId :
IA1

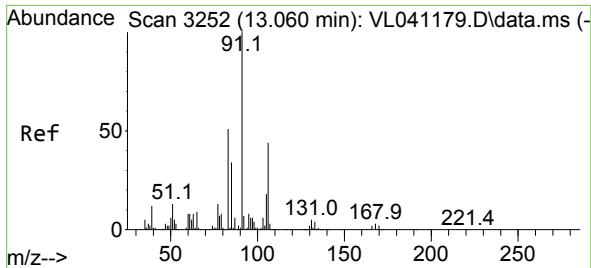
Tgt Ion:117 Resp: 2060455
Ion Ratio Lower Upper
117 100
82 66.2 53.6 80.4
119 33.0 27.2 40.8



#58
Ethyl Benzene
Concen: 0.046 ppbv
RT: 12.092 min Scan# 2951
Delta R.T. 0.006 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

Tgt Ion: 91 Resp: 13079
Ion Ratio Lower Upper
91 100
106 23.5 24.3 36.5#

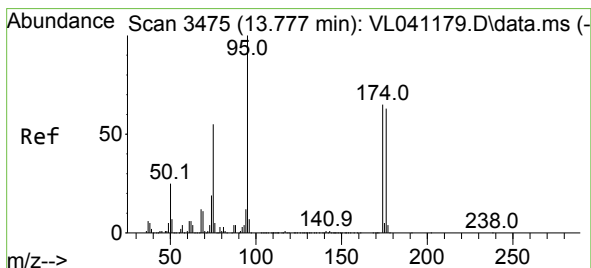
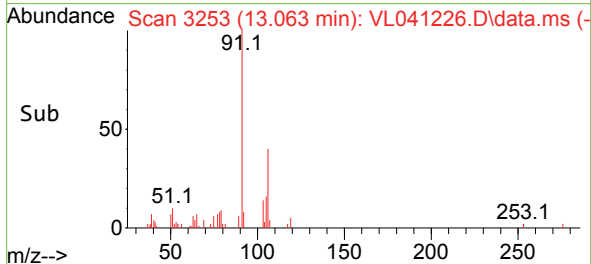
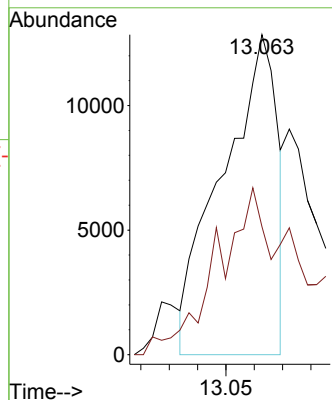
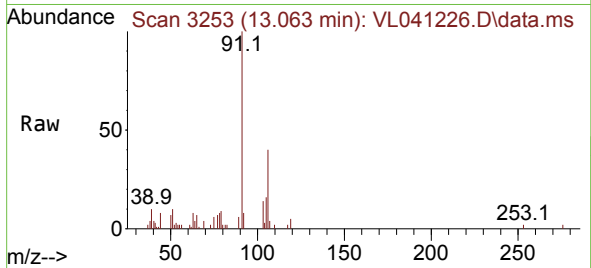




#60
o-Xylene
Concen: 0.078 ppbv
RT: 13.063 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

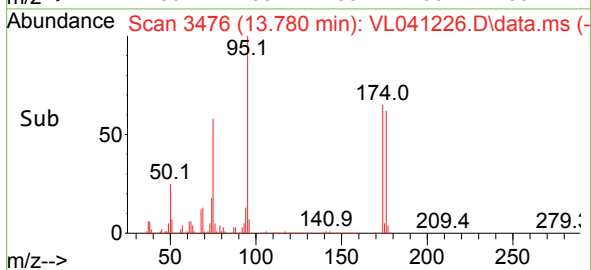
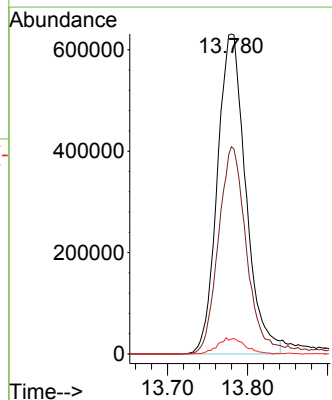
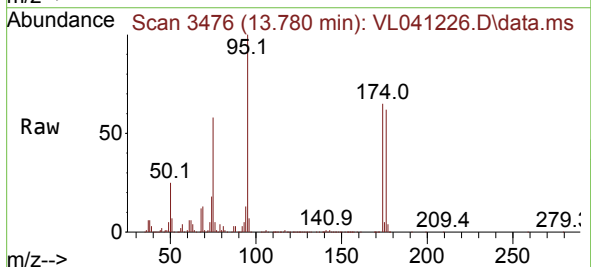
Instrument :
MSVOA_L
ClientSampleId :
IA1

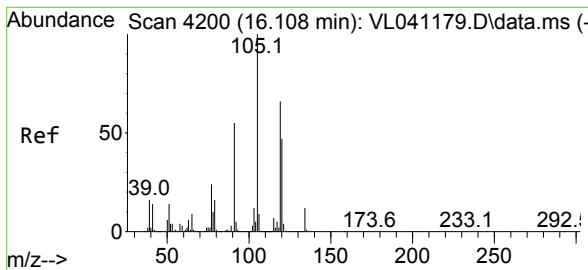
Tgt Ion: 91 Resp: 17366
Ion Ratio Lower Upper
91 100
106 76.2 22.4 67.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.995 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. 0.006 min
Lab File: VL041226.D
Acq: 6 May 2024 20:17

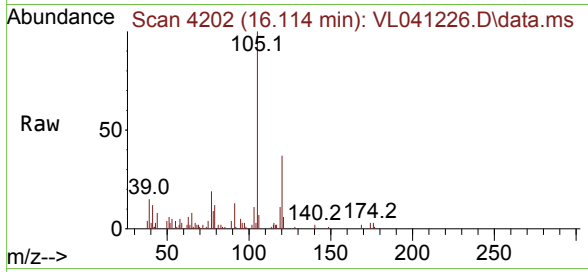
Tgt Ion: 95 Resp: 1554771
Ion Ratio Lower Upper
95 100
174 67.4 53.6 80.4
175 4.8 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.104 ppbv
 RT: 16.114 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL041226.D
 Acq: 6 May 2024 20:17

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	105	Resp:	25853
Ion	Ratio	Lower	Upper
105	100		
120	37.1	37.8	56.6#
91	10.1	44.3	66.5#
77	19.0	19.0	28.4

