

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
 Data File : VL041268.D
 Acq On : 21 May 2024 16:52
 Operator : SY/MD
 Sample : P2534-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: May 22 05:45:52 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 : Wed May 22 05:39:49 2024
 Response via : Initial Calibration

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

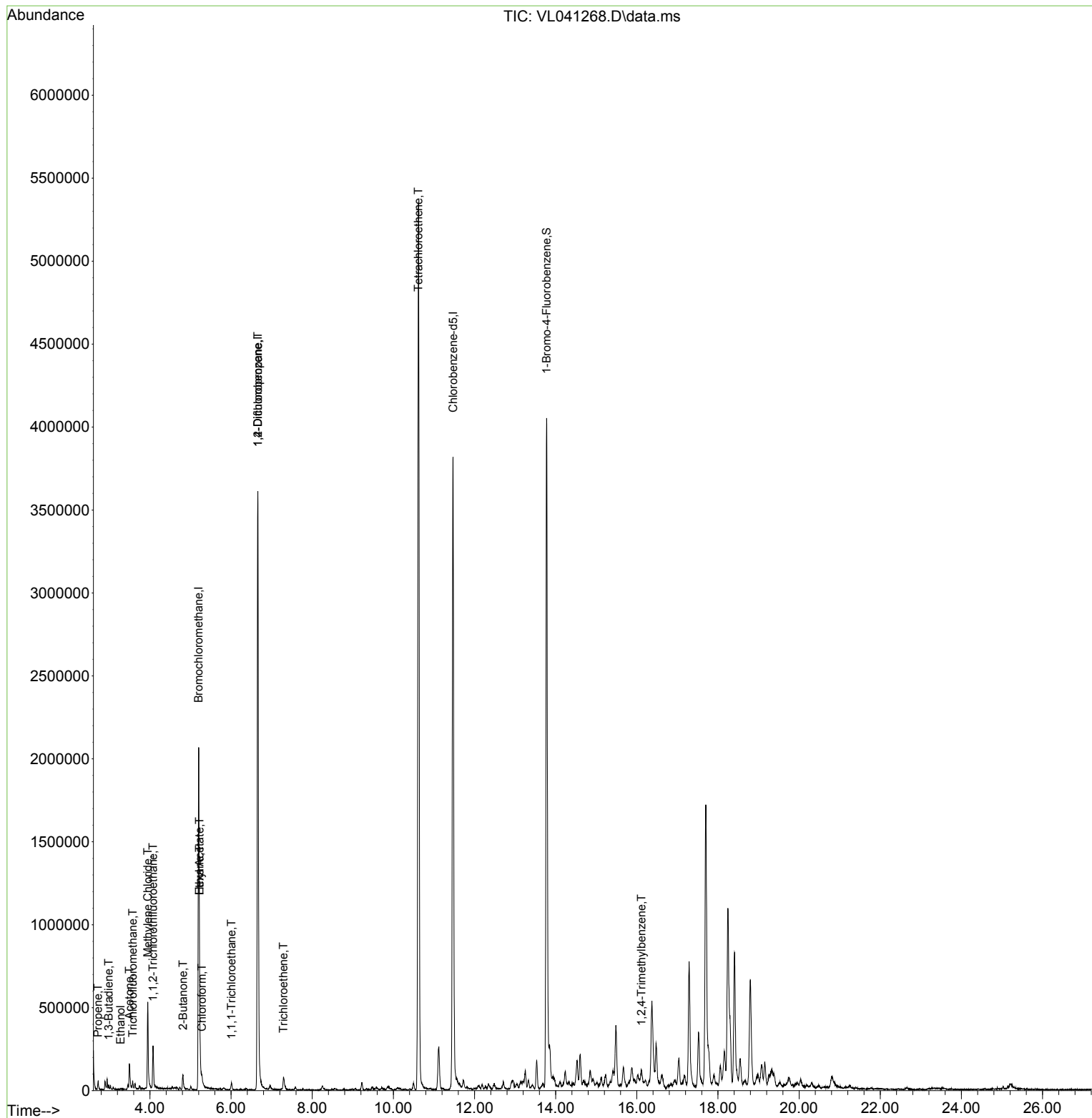
Internal Standards						
1) Bromochloromethane	5.202	49	1054033	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2750714	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2554954	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	2004826	10.394	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.900%
Target Compounds						
					Qvalue	
9) Propene	2.719	41	7419	0.118	ppbv #	74
11) Trichlorofluoromethane	3.578	101	20530	0.142	ppbv	84
12) 1,1,2-Trichlorotrifluo...	4.076	101	90753	0.847	ppbv	99
13) Ethanol	3.279	45	2672	0.190	ppbv #	62
15) Acetone	3.494	43	161778	1.301	ppbv	91
16) 1,3-Butadiene	2.980	39	6071	0.097	ppbv #	14
20) Methylene Chloride	3.948	84	162681	3.761	ppbv	98
25) Ethyl Acetate	5.221	43	80496	0.324	ppbv #	77
26) Hexane	5.221	57	106827	0.964	ppbv #	40
29) Chloroform	5.282	83	16926	0.111	ppbv	95
32) 1,1,1-Trichloroethane	6.005	97	10138	0.066	ppbv #	18
34) 2-Butanone	4.816	43	42680	0.305	ppbv #	19
38) Trichloroethene	7.295	130	14415	0.168	ppbv	86
39) 1,2-Dichloropropane	6.658	63	697899	7.845	ppbv #	24
52) Tetrachloroethene	10.619	164	1365708	16.833	ppbv	98
74) 1,2,4-Trimethylbenzene	16.114	105	26036	0.084	ppbv #	59

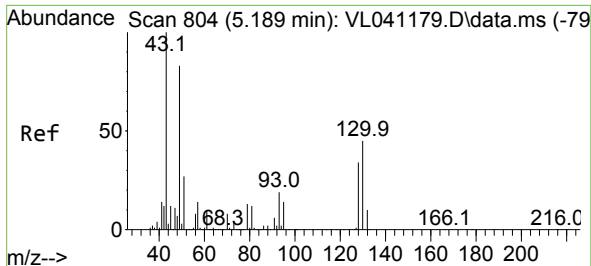
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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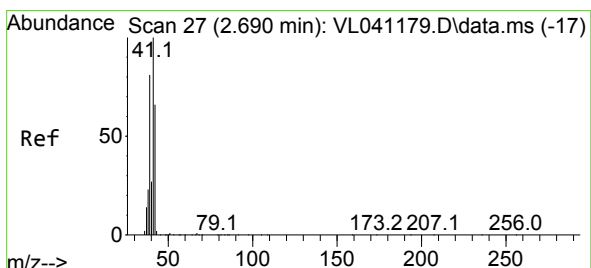
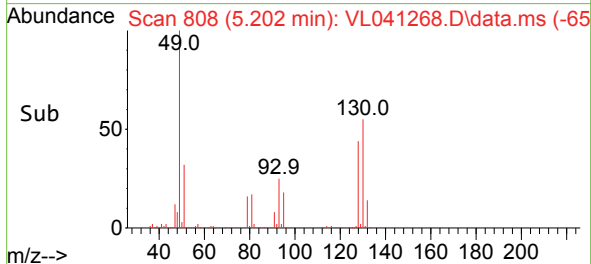
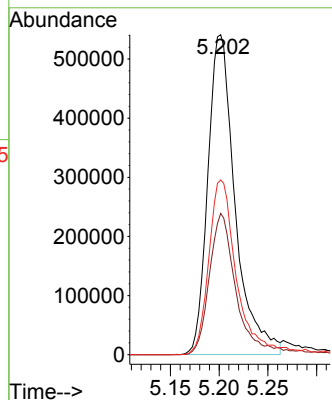
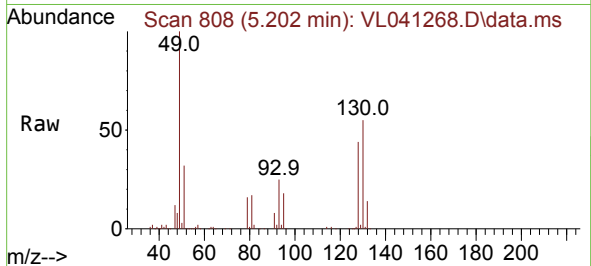




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.202 min Scan# 80
Delta R.T. 0.001 min
Lab File: VL041268.D
Acq: 21 May 2024 16:52

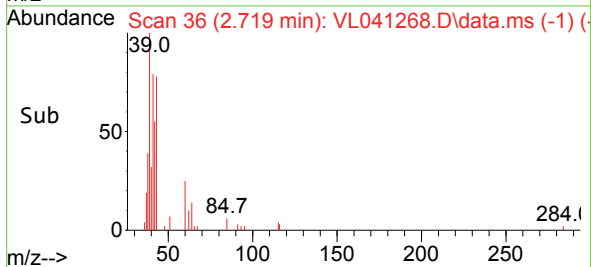
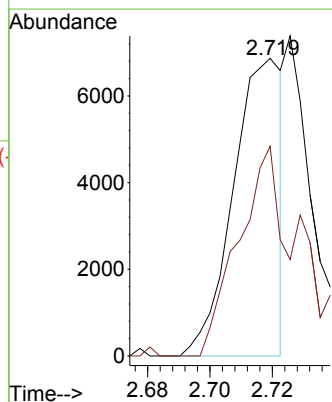
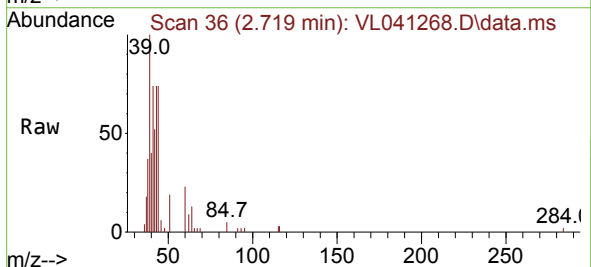
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

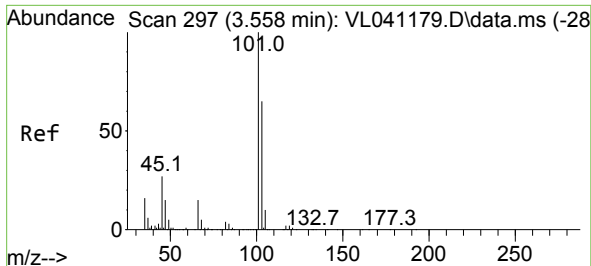
Tgt Ion: 49 Resp: 1054033
Ion Ratio Lower Upper
49 100
128 44.9 21.5 64.5
130 58.2 27.2 81.6



#9
Propene
Concen: 0.118 ppbv
RT: 2.719 min Scan# 36
Delta R.T. 0.006 min
Lab File: VL041268.D
Acq: 21 May 2024 16:52

Tgt Ion: 41 Resp: 7419
Ion Ratio Lower Upper
41 100
42 90.0 55.3 82.9#

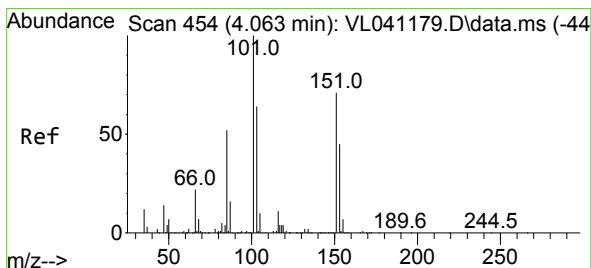
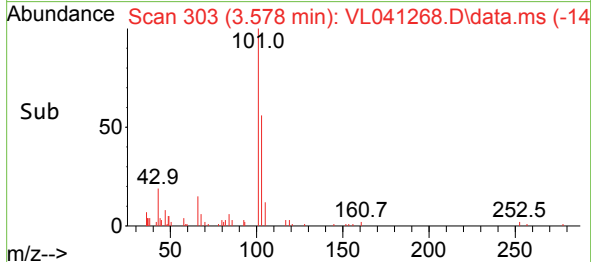
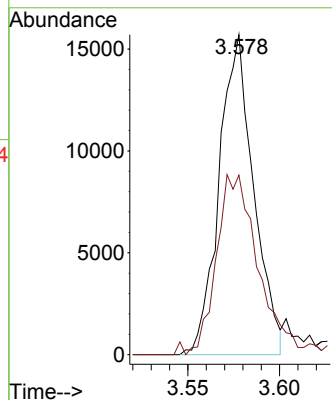
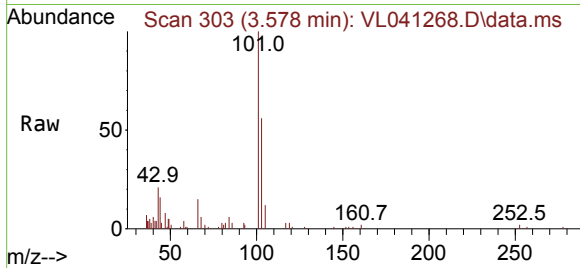




#11
Trichlorofluoromethane
Concen: 0.142 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.003 min
Lab File: VL041268.D
Acq: 21 May 2024 16:52

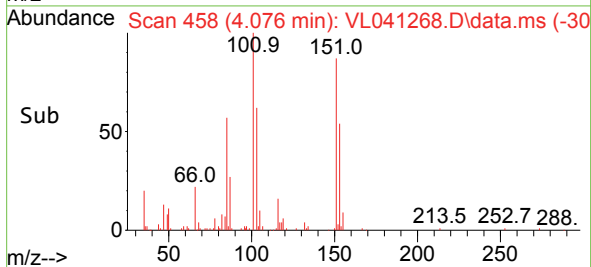
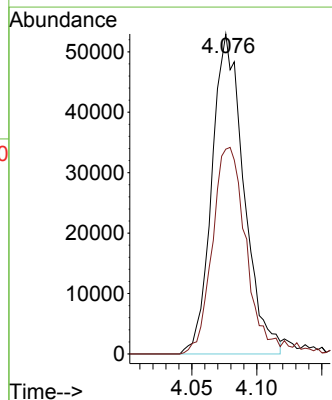
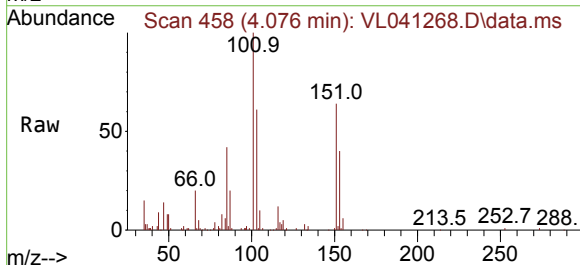
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

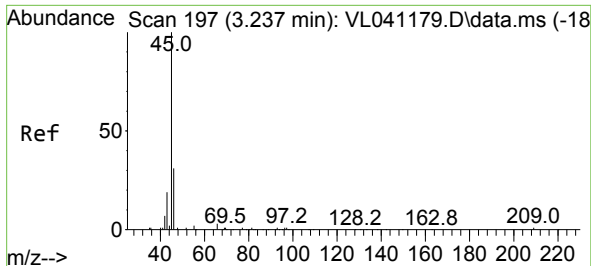
Tgt Ion:101 Resp: 20530
Ion Ratio Lower Upper
101 100
103 52.1 51.6 77.4



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.847 ppbv
RT: 4.076 min Scan# 458
Delta R.T. 0.000 min
Lab File: VL041268.D
Acq: 21 May 2024 16:52

Tgt Ion:101 Resp: 90753
Ion Ratio Lower Upper
101 100
151 70.4 56.8 85.2

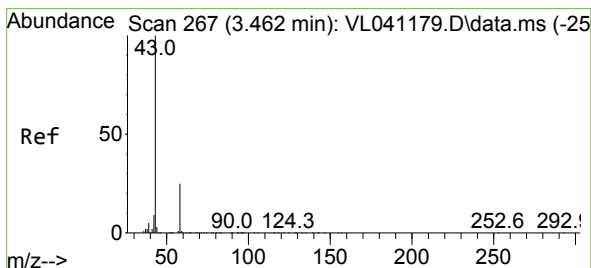
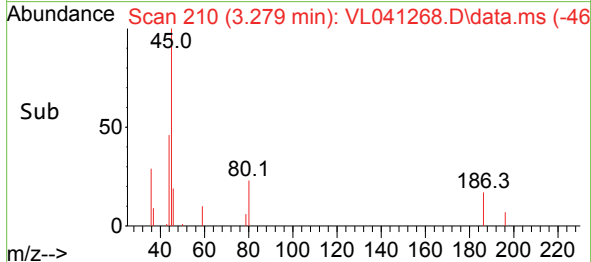
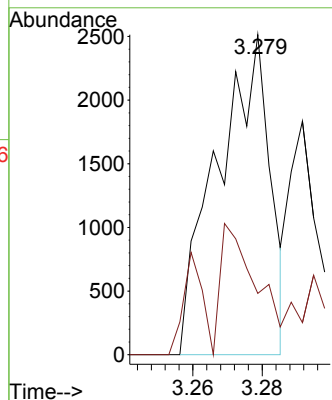
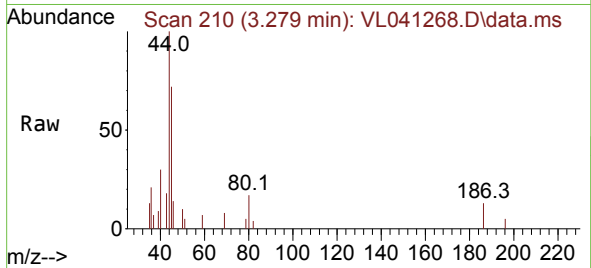




#13
Ethanol
Concen: 0.190 ppbv
RT: 3.279 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL041268.D
Acq: 21 May 2024 16:52

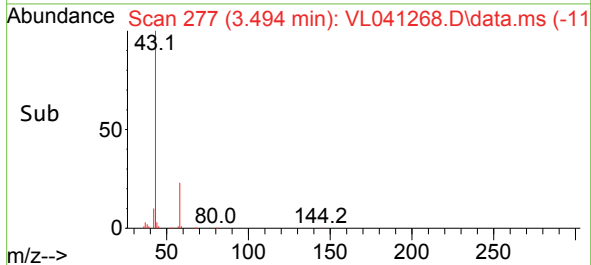
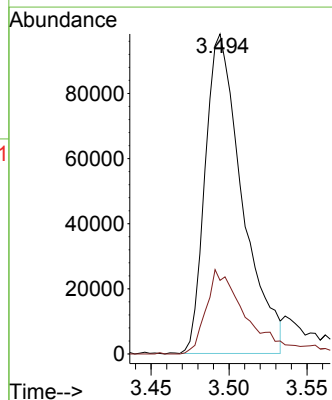
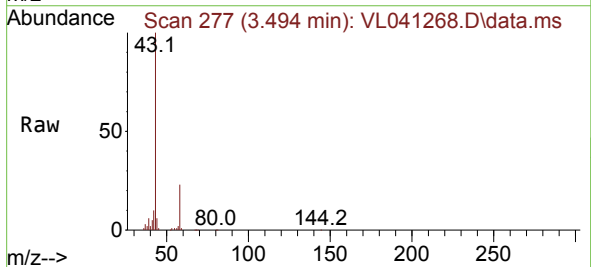
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

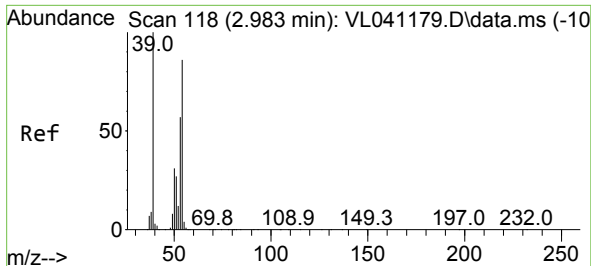
Tgt Ion: 45 Resp: 2672
Ion Ratio Lower Upper
45 100
46 59.4 14.8 59.0#



#15
Acetone
Concen: 1.301 ppbv
RT: 3.494 min Scan# 277
Delta R.T. 0.013 min
Lab File: VL041268.D
Acq: 21 May 2024 16:52

Tgt Ion: 43 Resp: 161778
Ion Ratio Lower Upper
43 100
58 31.3 21.4 32.0

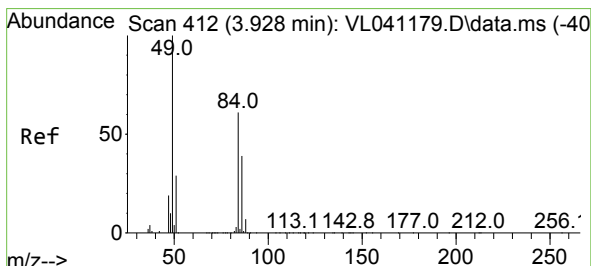
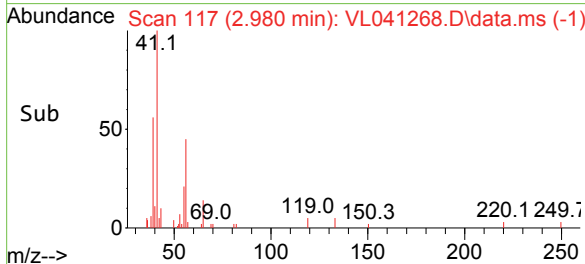
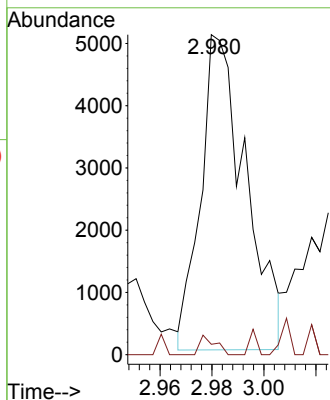
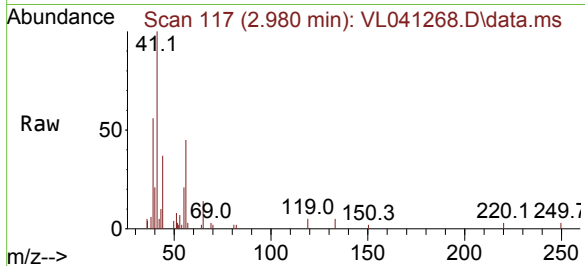




#16
1,3-Butadiene
Concen: 0.097 ppbv
RT: 2.980 min Scan# 118
Delta R.T. -0.022 min
Lab File: VL041268.D
Acq: 21 May 2024 16:52

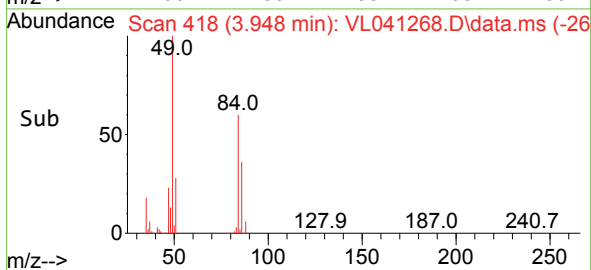
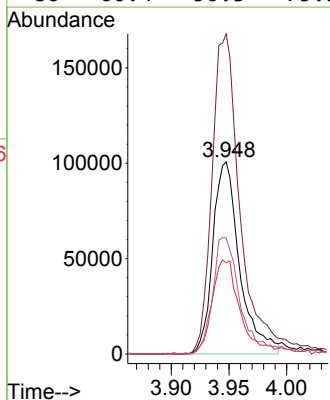
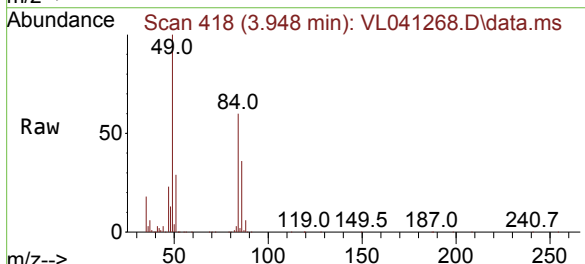
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

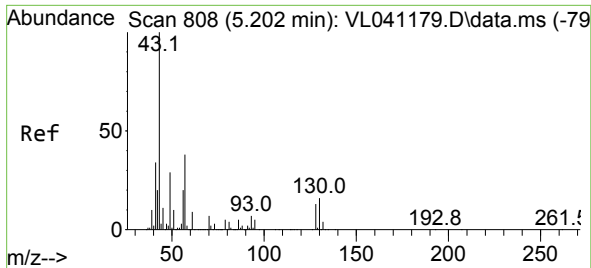
Tgt Ion: 39 Resp: 6071
Ion Ratio Lower Upper
39 100
54 3.4 62.2 93.4#



#20
Methylene Chloride
Concen: 3.761 ppbv
RT: 3.948 min Scan# 418
Delta R.T. 0.003 min
Lab File: VL041268.D
Acq: 21 May 2024 16:52

Tgt Ion: 84 Resp: 162681
Ion Ratio Lower Upper
84 100
49 166.7 130.4 195.6
51 47.6 38.0 57.0
86 60.4 50.3 75.5

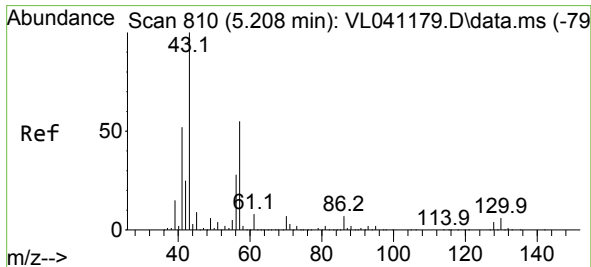
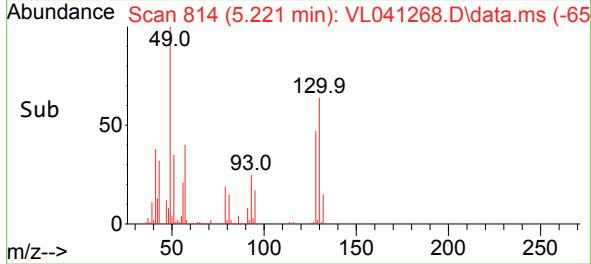
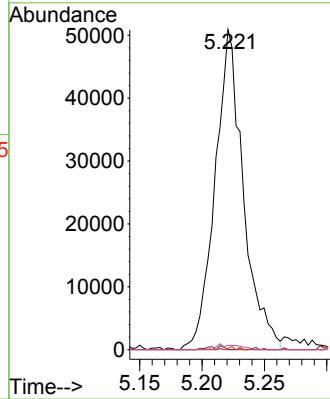
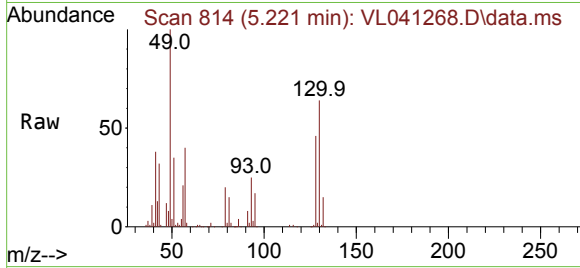




#25
Ethyl Acetate
Concen: 0.324 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.010 min
Lab File: VL041268.D
Acq: 21 May 2024 16:52

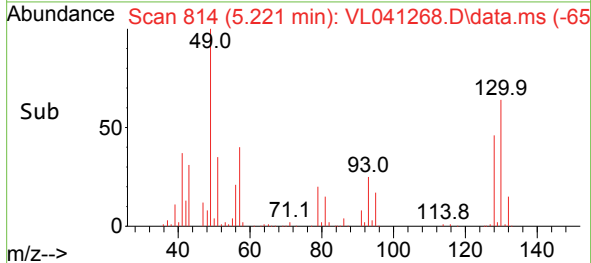
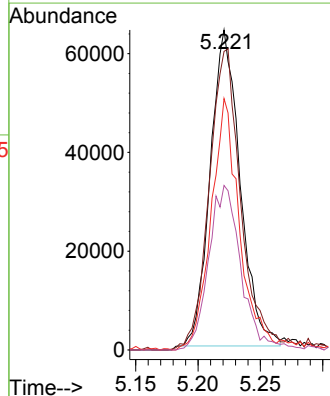
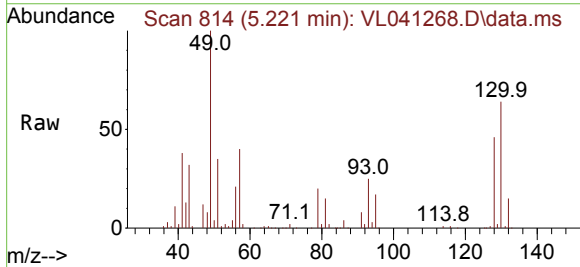
Instrument :
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SV1DL

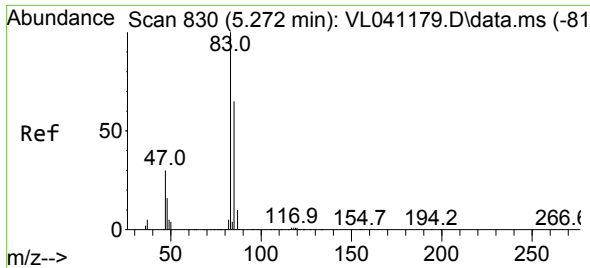
Tgt Ion: 43	Resp: 80496
Ion Ratio	Lower Upper
43 100	
45 0.6	8.2 12.2#
61 0.2	7.7 11.5#
70 1.3	5.8 8.6#



#26
Hexane
Concen: 0.964 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.000 min
Lab File: VL041268.D
Acq: 21 May 2024 16:52

Tgt Ion: 57	Resp: 106827
Ion Ratio	Lower Upper
57 100	
41 104.8	75.8 113.8
43 78.2	187.0 280.4#
56 56.8	42.7 64.1

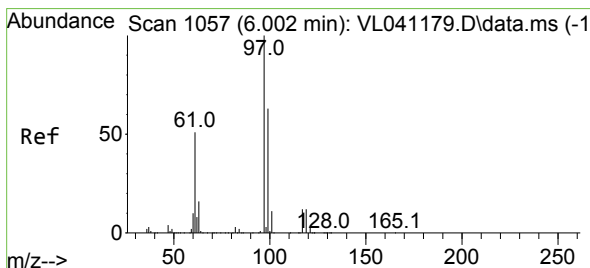
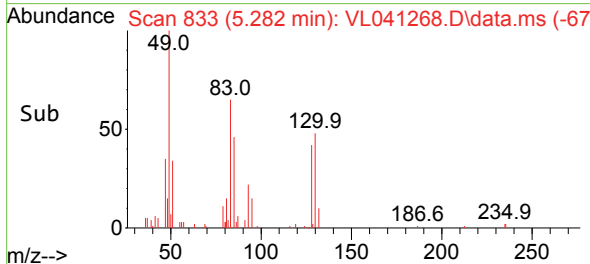
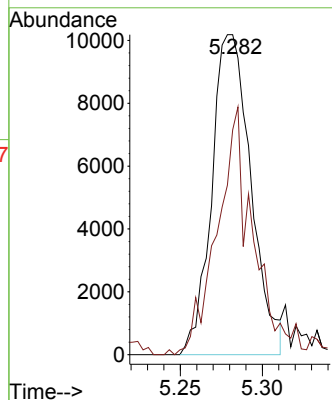
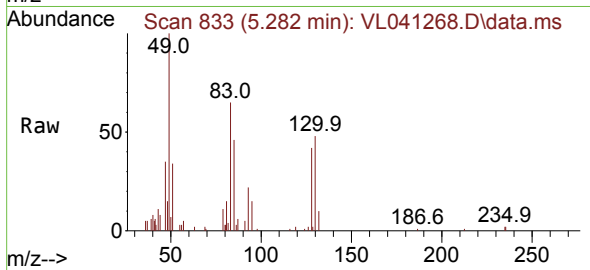




#29
Chloroform
Concen: 0.111 ppbv
RT: 5.282 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL041268.D
Acq: 21 May 2024 16:52

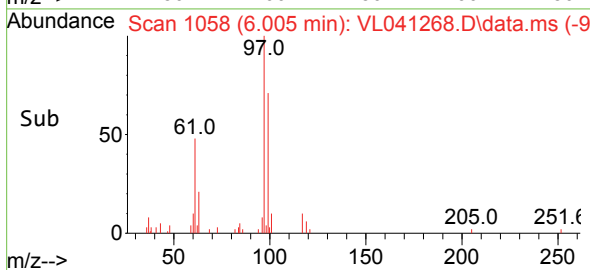
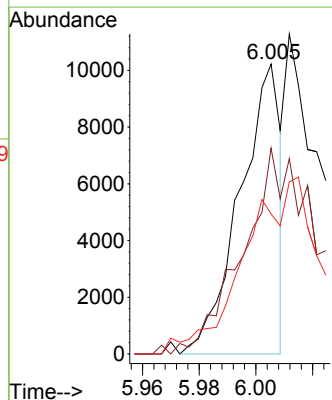
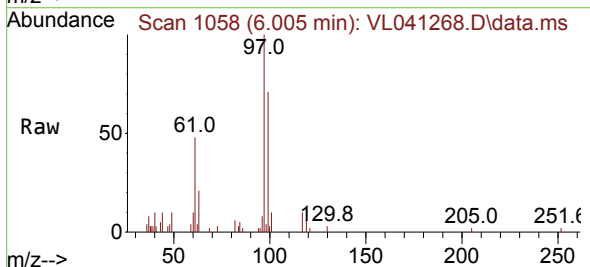
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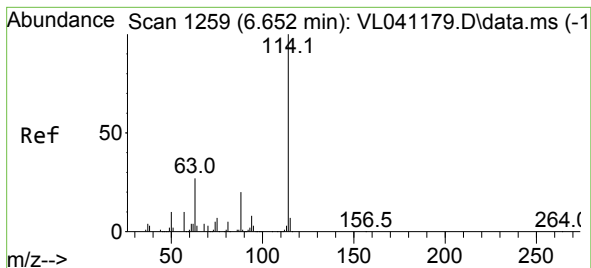
Tgt Ion: 83 Resp: 16926
Ion Ratio Lower Upper
83 100
85 68.8 51.7 77.5



#32
1,1,1-Trichloroethane
Concen: 0.066 ppbv
RT: 6.005 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VL041268.D
Acq: 21 May 2024 16:52

Tgt Ion: 97 Resp: 10138
Ion Ratio Lower Upper
97 100
99 134.7 51.7 77.5#
61 0.0 41.1 61.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL041268.D

Acq: 21 May 2024 16:52

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

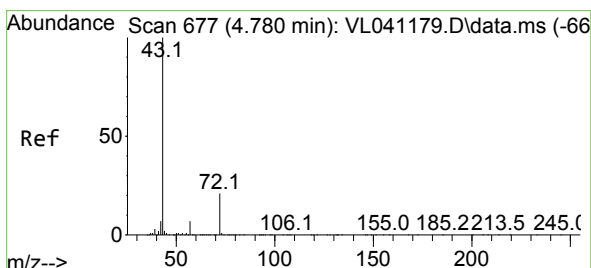
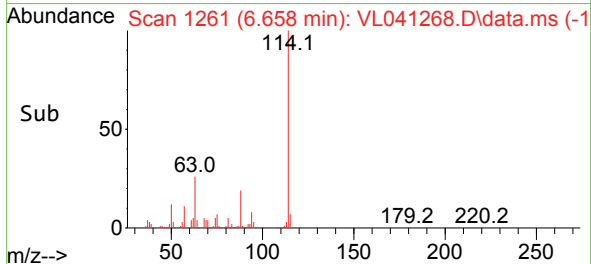
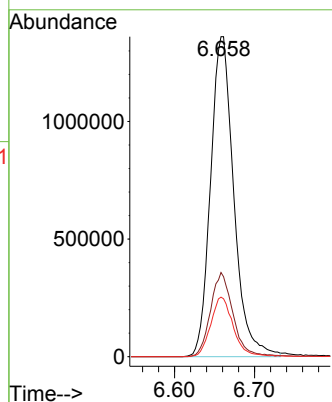
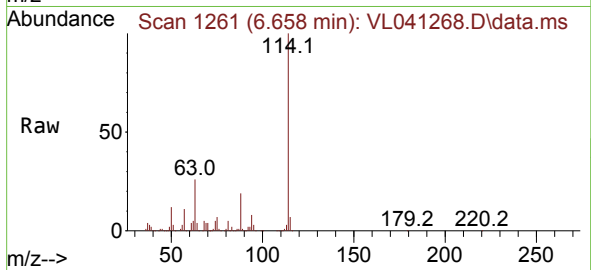
Tgt Ion:114 Resp: 2750714

Ion Ratio Lower Upper

114 100

63 25.7 21.8 32.6

88 18.3 15.2 22.8



#34

2-Butanone

Concen: 0.305 ppbv

RT: 4.816 min Scan# 688

Delta R.T. 0.023 min

Lab File: VL041268.D

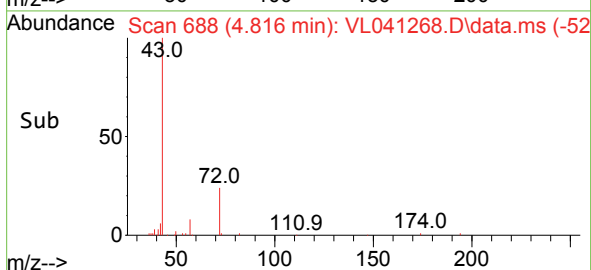
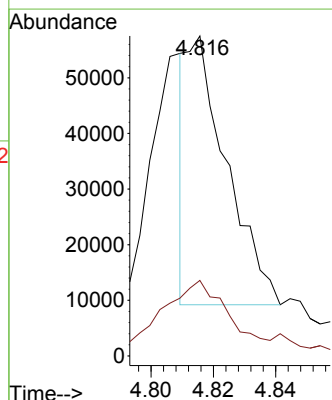
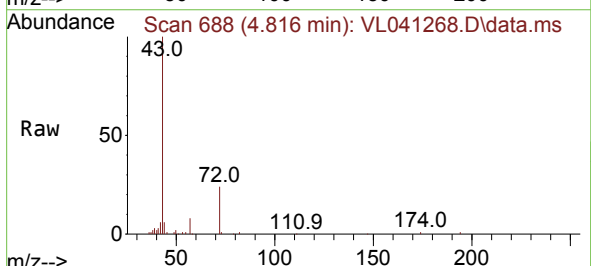
Acq: 21 May 2024 16:52

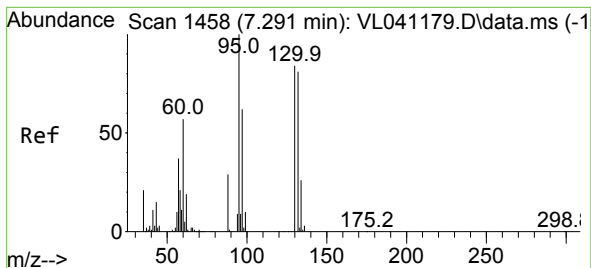
Tgt Ion: 43 Resp: 42680

Ion Ratio Lower Upper

43 100

72 59.9 17.3 25.9#





#38

Trichloroethene

Concen: 0.168 ppbv

RT: 7.295 min Scan# 1458

Delta R.T. 0.003 min

Lab File: VL041268.D

Acq: 21 May 2024 16:52

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion:130 Resp: 14415

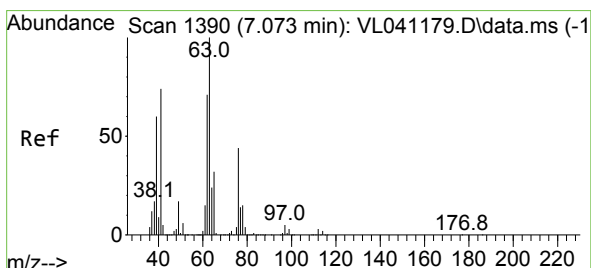
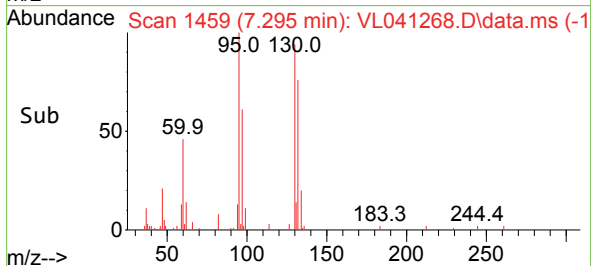
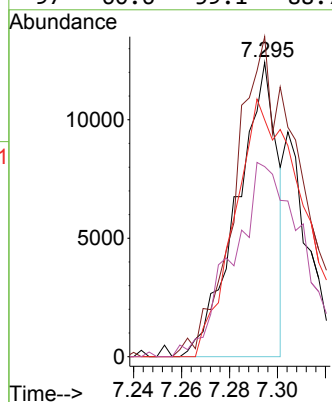
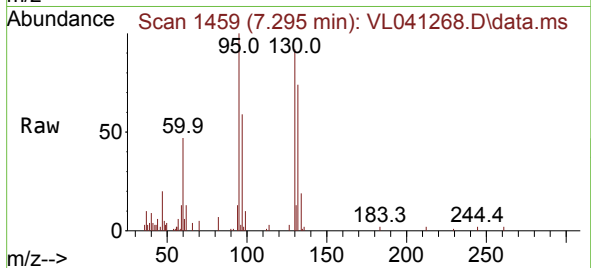
Ion Ratio Lower Upper

130 100

95 106.4 95.0 142.6

132 80.5 77.0 115.4

97 60.6 59.1 88.7



#39

1,2-Dichloropropane

Concen: 7.845 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.418 min

Lab File: VL041268.D

Acq: 21 May 2024 16:52

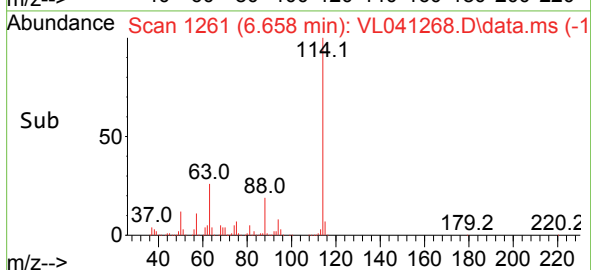
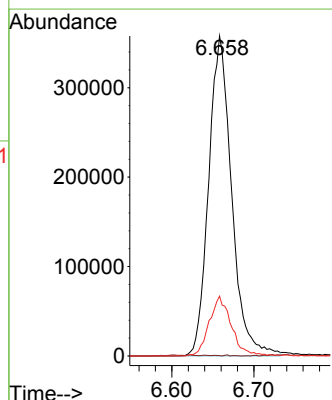
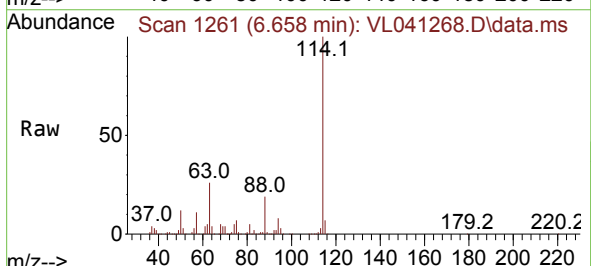
Tgt Ion: 63 Resp: 697899

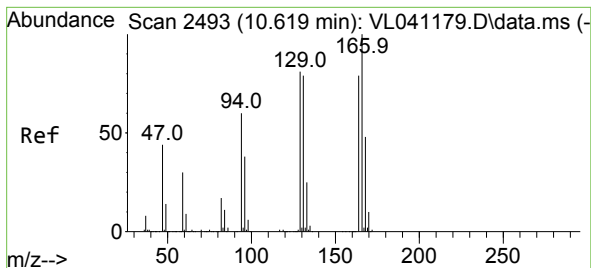
Ion Ratio Lower Upper

63 100

41 0.0 59.4 89.0#

62 18.7 56.8 85.2#





#52

Tetrachloroethene

Concen: 16.833 ppbv

RT: 10.619 min Scan# 2493

Delta R.T. 0.003 min

Lab File: VL041268.D

Acq: 21 May 2024 16:52

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion:164 Resp: 1365708

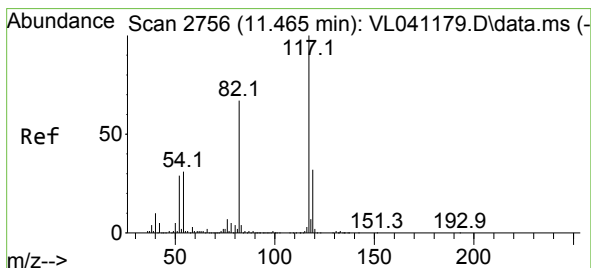
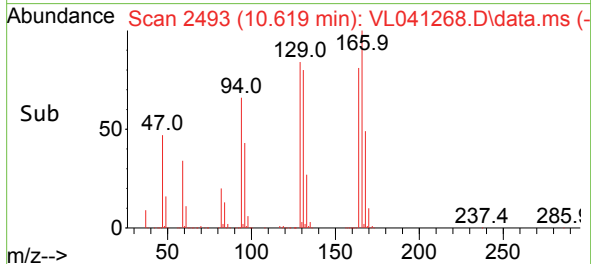
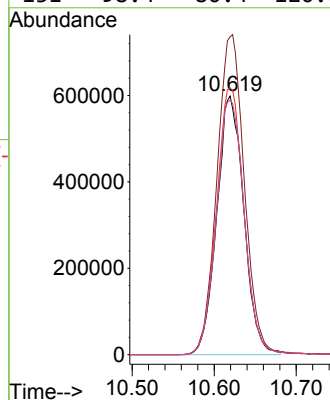
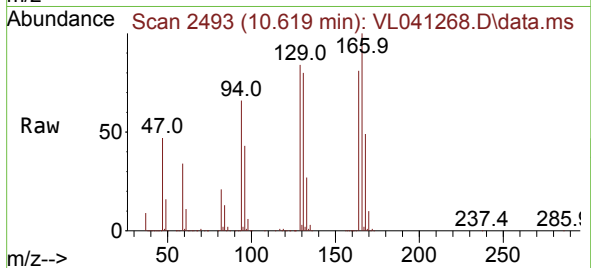
Ion Ratio Lower Upper

164 100

166 122.9 101.1 151.7

129 103.2 81.7 122.5

131 98.4 80.4 120.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.471 min Scan# 2758

Delta R.T. 0.006 min

Lab File: VL041268.D

Acq: 21 May 2024 16:52

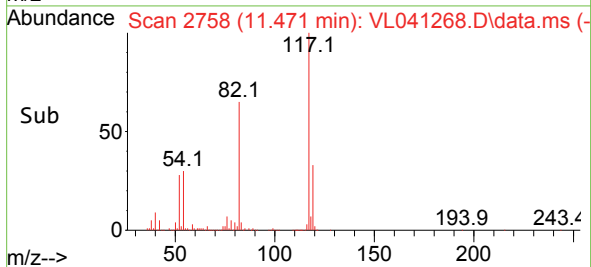
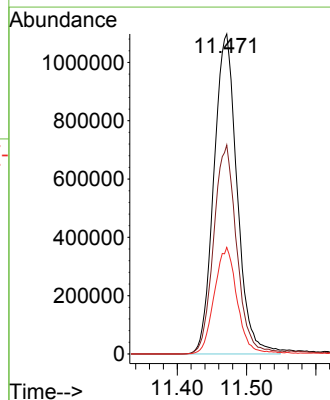
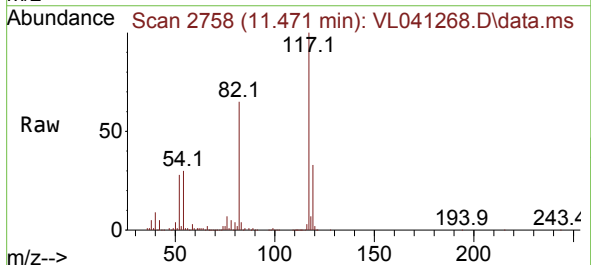
Tgt Ion:117 Resp: 2554954

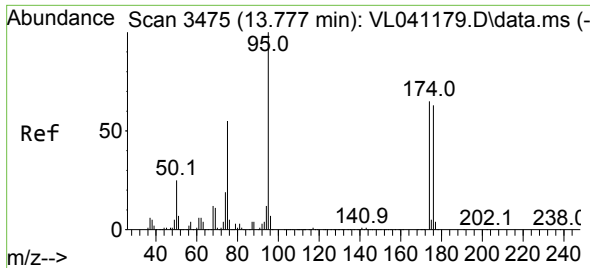
Ion Ratio Lower Upper

117 100

82 65.0 53.6 80.4

119 33.0 27.2 40.8

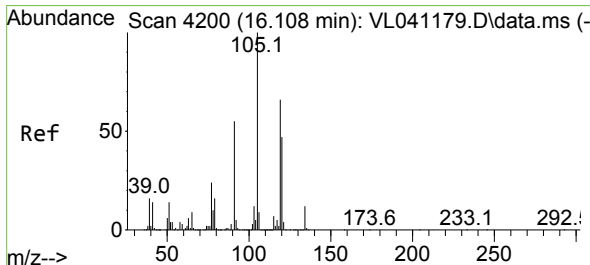
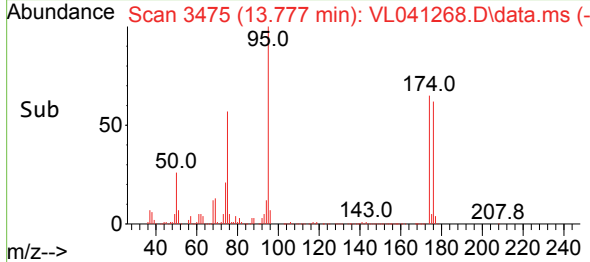
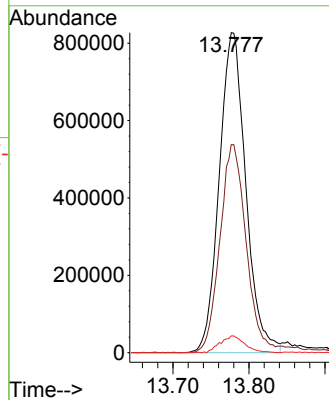
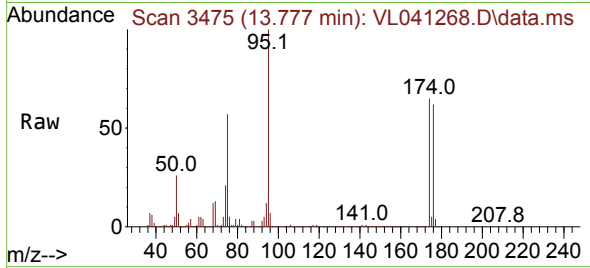




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.394 ppbv
 RT: 13.777 min Scan# 3475
 Delta R.T. 0.003 min
 Lab File: VL041268.D
 Acq: 21 May 2024 16:52

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion: 95 Resp: 2004826
 Ion Ratio Lower Upper
 95 100
 174 67.6 53.6 80.4
 175 4.9 4.2 6.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.084 ppbv
 RT: 16.114 min Scan# 4202
 Delta R.T. 0.010 min
 Lab File: VL041268.D
 Acq: 21 May 2024 16:52

Tgt Ion: 105 Resp: 26036
 Ion Ratio Lower Upper
 105 100
 120 30.8 37.8 56.6#
 91 11.6 44.3 66.5#
 77 9.2 19.0 28.4#

