

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050624\
 Data File : VL041231.D
 Acq On : 7 May 2024 8:07
 Operator : SY/MD
 Sample : P2334-10DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 07 17:02:00 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	5.201	49	876012	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.661	114	2303120	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2096177	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1591123	10.054	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%

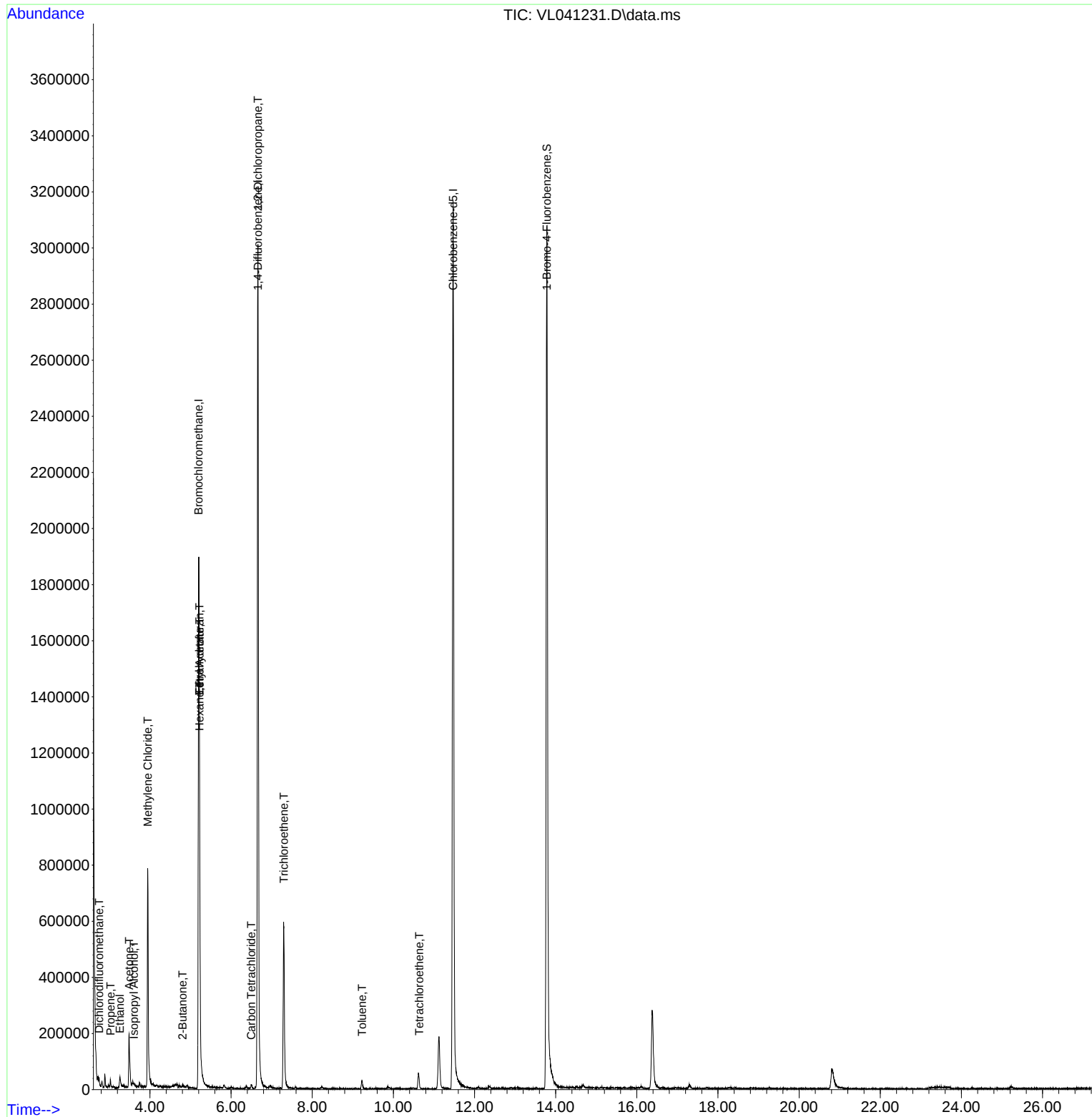
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.748	85	17001	0.143	ppbv	96
9) Propene	3.028	41	6698	0.129	ppbv	86
13) Ethanol	3.259	45	40714	3.488	ppbv	93
15) Acetone	3.488	43	211244	2.043	ppbv	99
19) Isopropyl Alcohol	3.603	45	10786	0.159	ppbv #	1
20) Methylene Chloride	3.947	84	252188	7.015	ppbv	94
25) Ethyl Acetate	5.221	43	201325	0.976	ppbv #	78
26) Hexane	5.224	57	278777	3.027	ppbv #	41
34) 2-Butanone	4.806	43	3645	0.031	ppbv #	1
35) Carbon Tetrachloride	6.497	117	4936	0.038	ppbv #	66
38) Trichloroethene	7.301	130	182114	2.529	ppbv	95
39) 1,2-Dichloropropane	6.658	63	581097	7.801	ppbv #	25
41) Tetrahydrofuran	5.221	42	106531	1.255	ppbv #	52
52) Tetrachloroethene	10.638	164	2217	0.033	ppbv #	49
53) Toluene	9.230	91	18854	0.084	ppbv	87

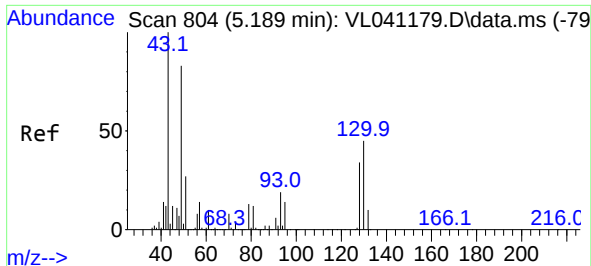
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 07 17:02:00 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

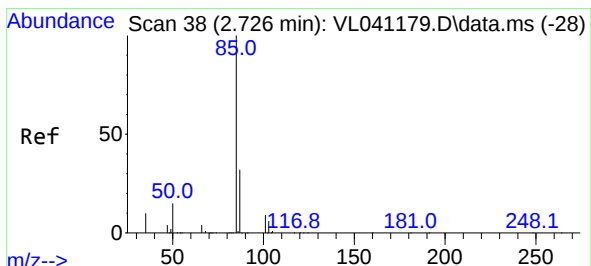
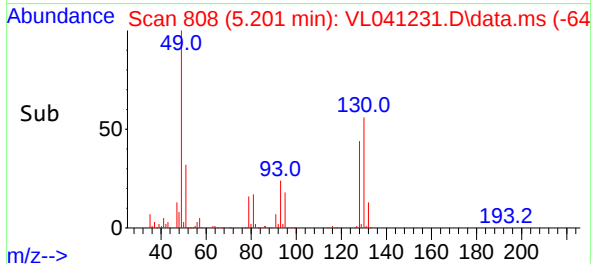
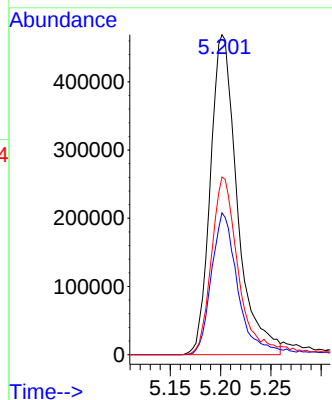
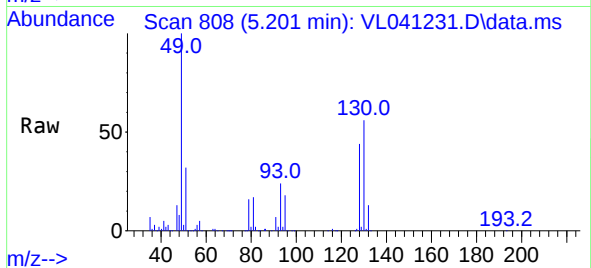




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.201 min Scan# 80
Delta R.T. 0.012 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07

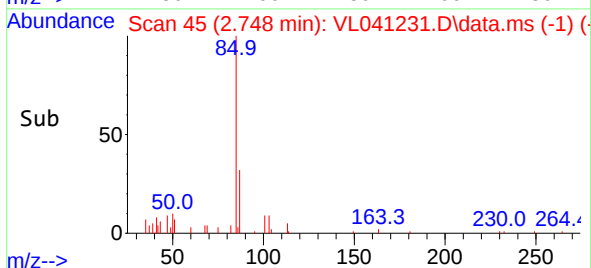
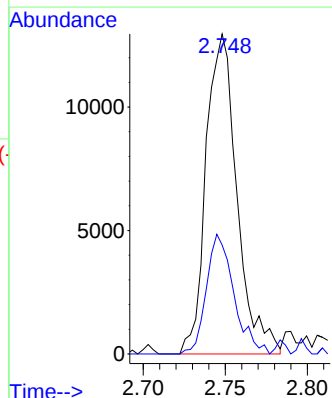
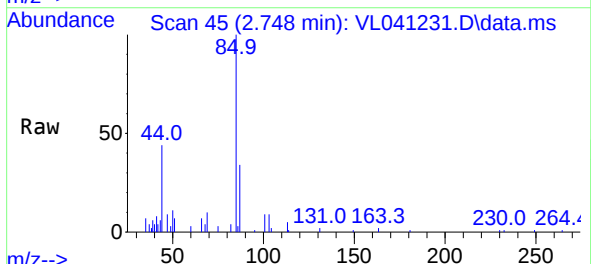
Instrument :
MSVOA_L
ClientSampleId :

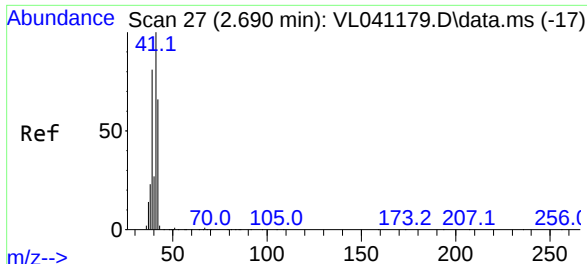
Tgt Ion: 49 Resp: 876012
Ion Ratio Lower Upper
49 100
128 45.4 21.5 64.5
130 58.1 27.2 81.6



#2
Dichlorodifluoromethane
Concen: 0.143 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.022 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07

Tgt Ion: 85 Resp: 17001
Ion Ratio Lower Upper
85 100
87 34.1 25.7 38.5





#9

Propene

Concen: 0.129 ppbv

RT: 3.028 min Scan# 11

Delta R.T. 0.337 min

Lab File: VL041231.D

Acq: 7 May 2024 8:07

Instrument :

MSVOA_L

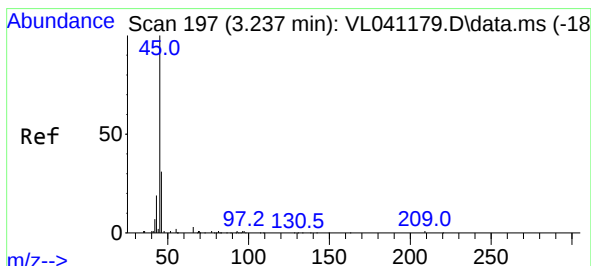
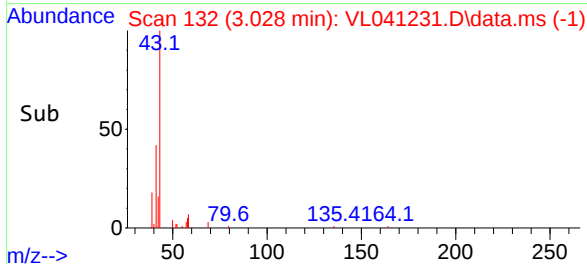
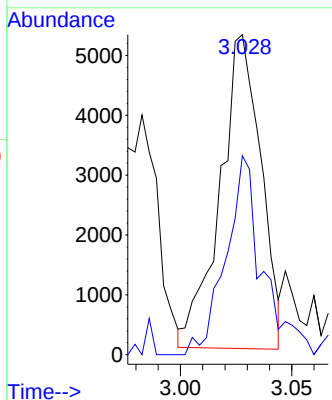
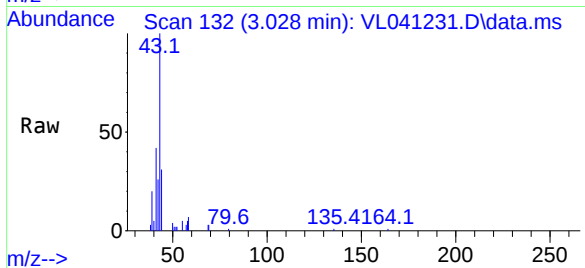
ClientSampleId :

Tgt Ion: 41 Resp: 6698

Ion Ratio Lower Upper

41 100

42 57.8 55.3 82.9



#13

Ethanol

Concen: 3.488 ppbv

RT: 3.259 min Scan# 204

Delta R.T. 0.022 min

Lab File: VL041231.D

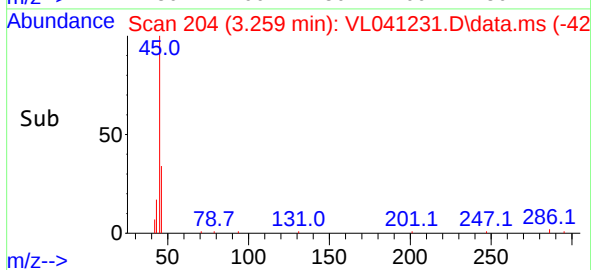
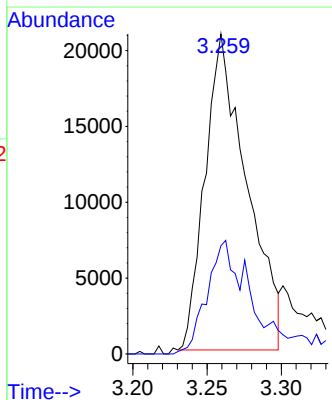
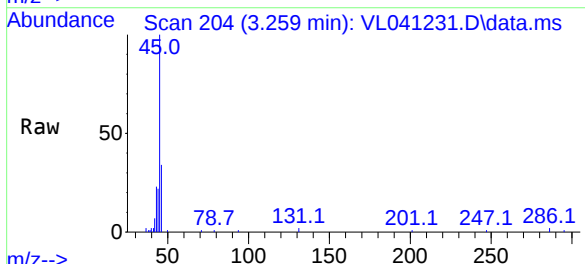
Acq: 7 May 2024 8:07

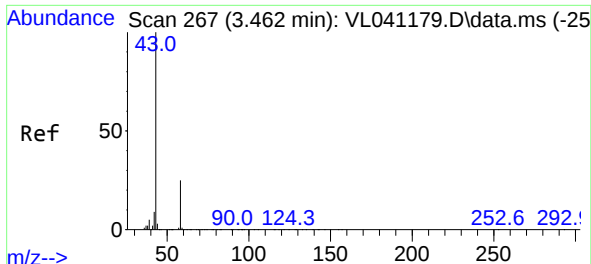
Tgt Ion: 45 Resp: 40714

Ion Ratio Lower Upper

45 100

46 41.1 14.8 59.0

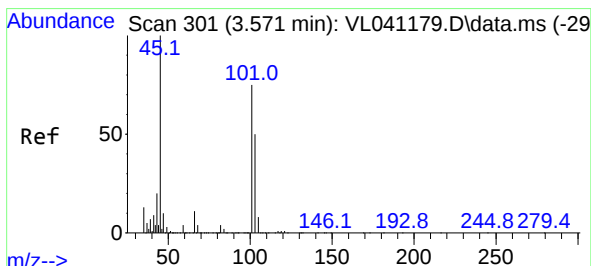
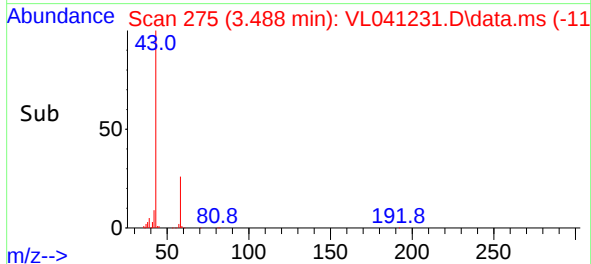
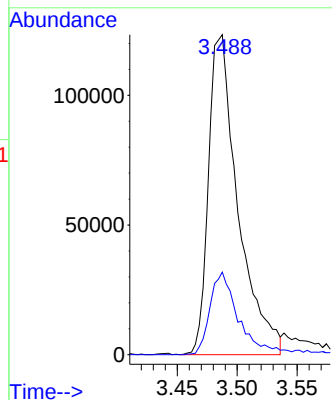
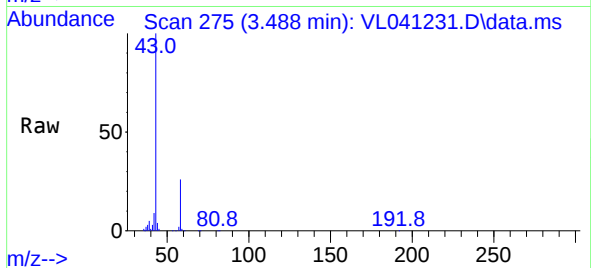




#15
Acetone
Concen: 2.043 ppbv
RT: 3.488 min Scan# 211
Delta R.T. 0.026 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07

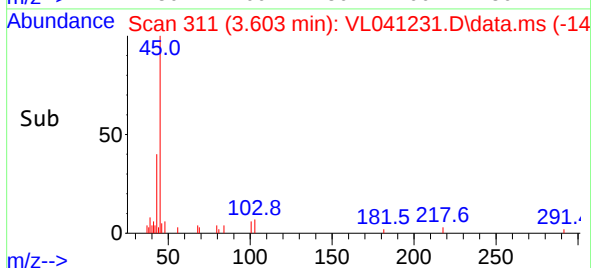
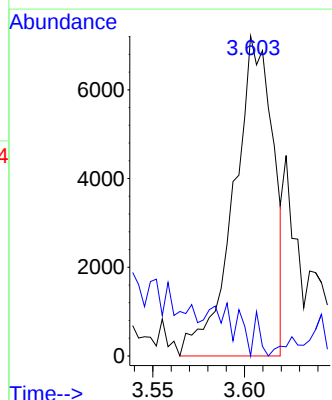
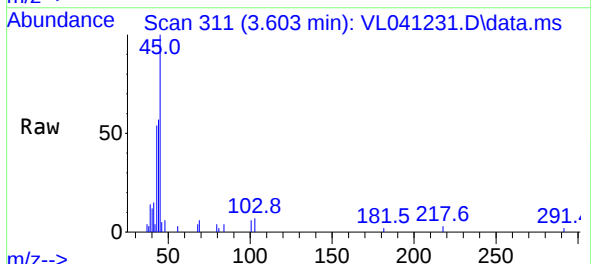
Instrument :
MSVOA_L
ClientSampleId :

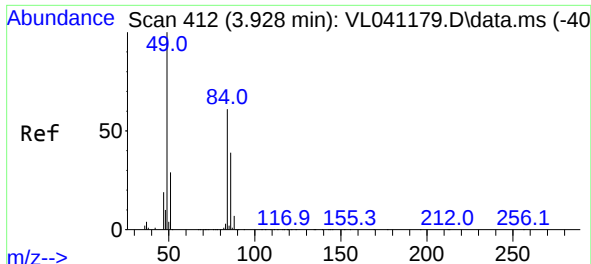
Tgt Ion: 43 Resp: 211244
Ion Ratio Lower Upper
43 100
58 26.3 21.4 32.0



#19
Isopropyl Alcohol
Concen: 0.159 ppbv
RT: 3.603 min Scan# 311
Delta R.T. 0.032 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07

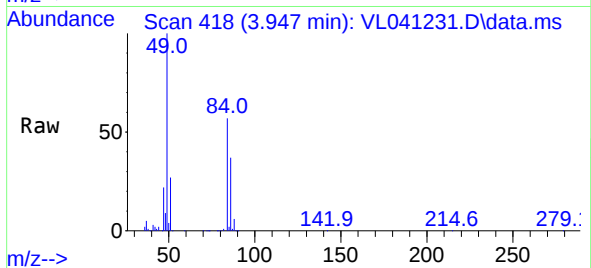
Tgt Ion: 45 Resp: 10786
Ion Ratio Lower Upper
45 100
58 523.7 26.8 40.2#



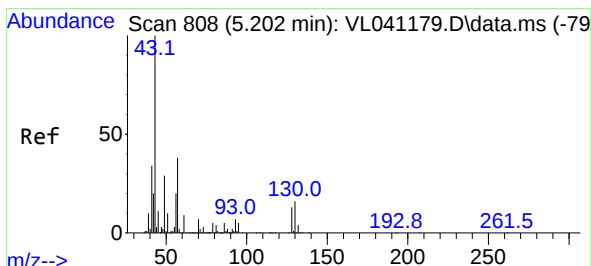
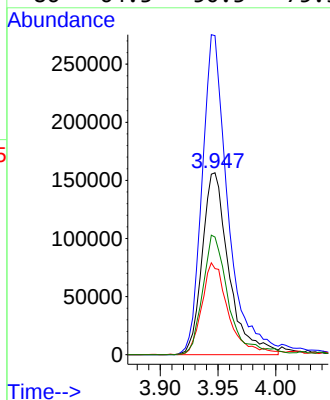
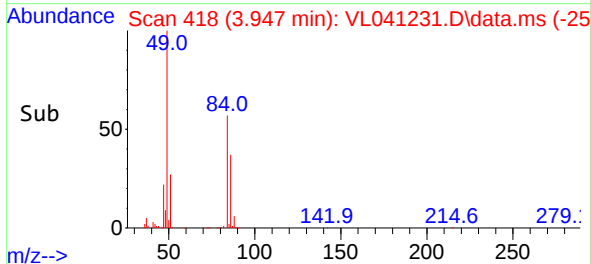


#20
Methylene Chloride
Concen: 7.015 ppbv
RT: 3.947 min Scan# 412
Delta R.T. 0.019 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07

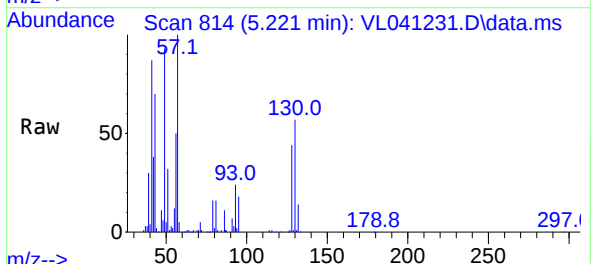
Instrument :
MSVOA_L
ClientSampleId :



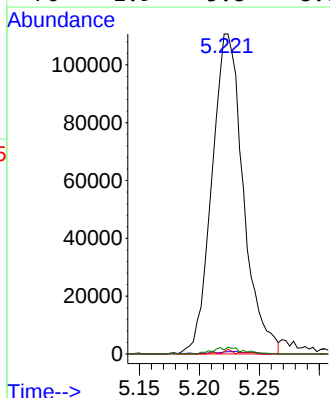
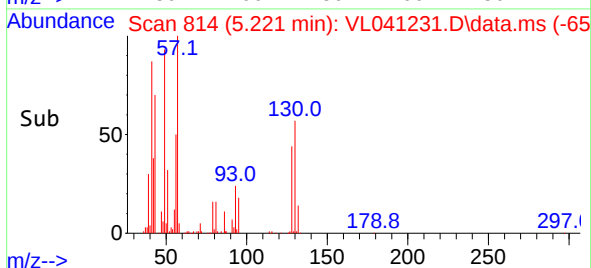
Tgt Ion: 84 Resp: 252188
Ion Ratio Lower Upper
84 100
49 175.1 130.4 195.6
51 47.0 38.0 57.0
86 64.3 50.3 75.5

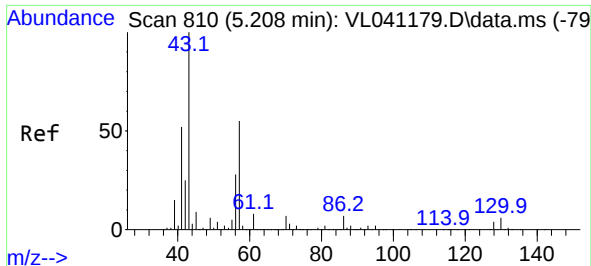


#25
Ethyl Acetate
Concen: 0.976 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.019 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07



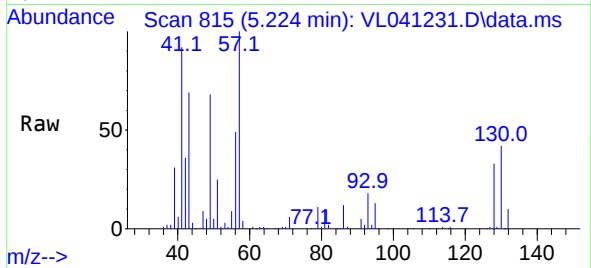
Tgt Ion: 43 Resp: 201325
Ion Ratio Lower Upper
43 100
45 1.0 8.2 12.2#
61 0.7 7.7 11.5#
70 1.9 5.8 8.6#



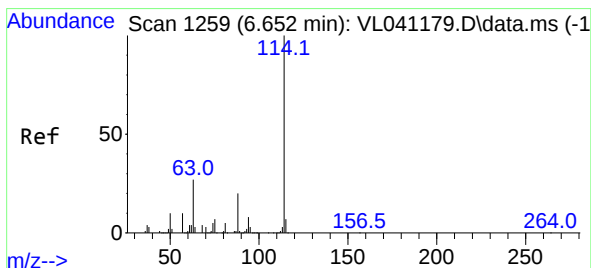
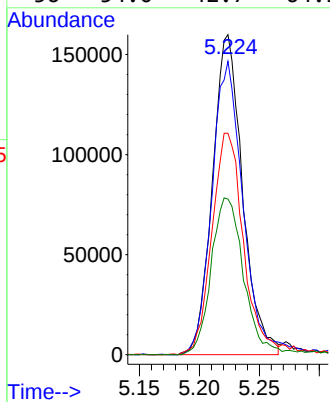
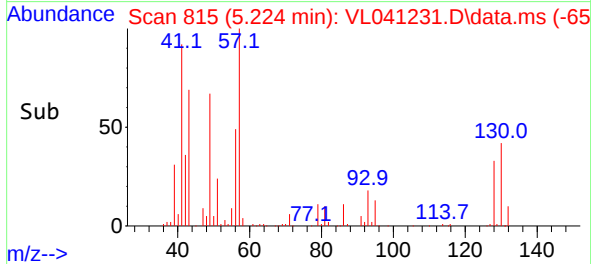


#26
Hexane
Concen: 3.027 ppbv
RT: 5.224 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07

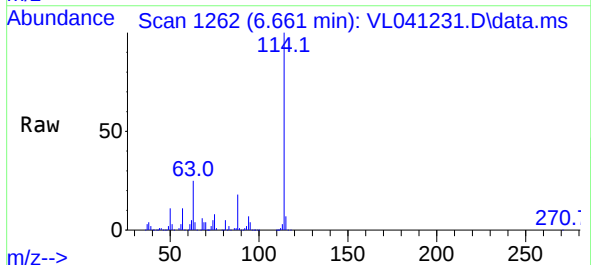
Instrument :
MSVOA_L
ClientSampleId :



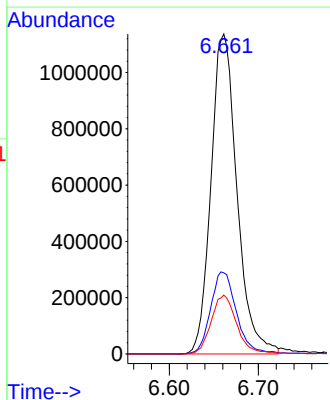
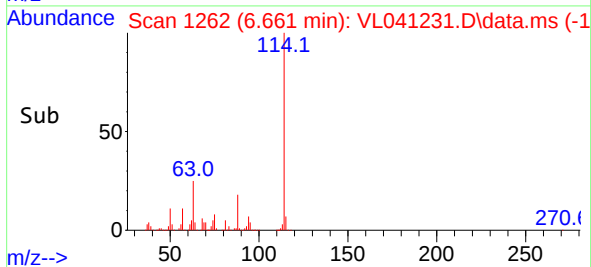
Tgt Ion: 57 Resp: 278777
Ion Ratio Lower Upper
57 100
41 97.0 75.8 113.8
43 75.1 187.0 280.4#
56 54.0 42.7 64.1

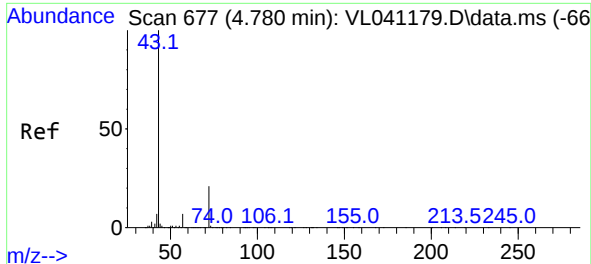


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. 0.009 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07



Tgt Ion: 114 Resp: 2303120
Ion Ratio Lower Upper
114 100
63 25.9 21.8 32.6
88 18.3 15.2 22.8

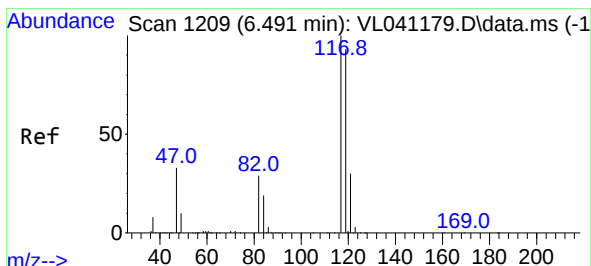
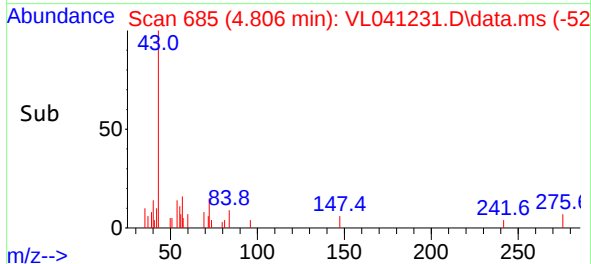
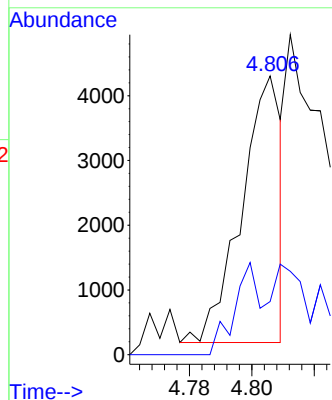
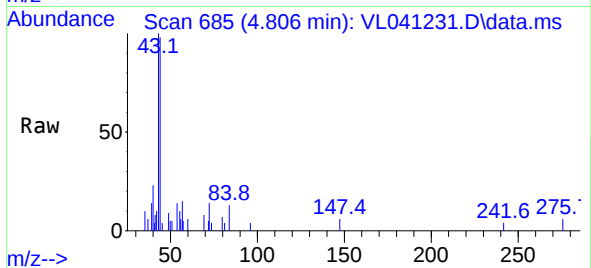




#34
2-Butanone
Concen: 0.031 ppbv
RT: 4.806 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07

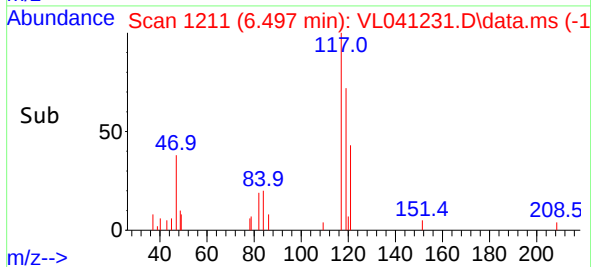
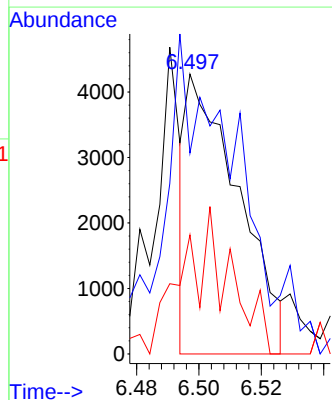
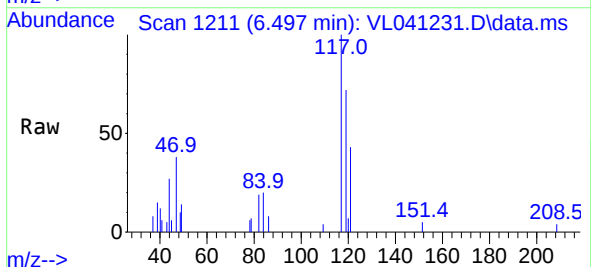
Instrument :
MSVOA_L
ClientSampleId :

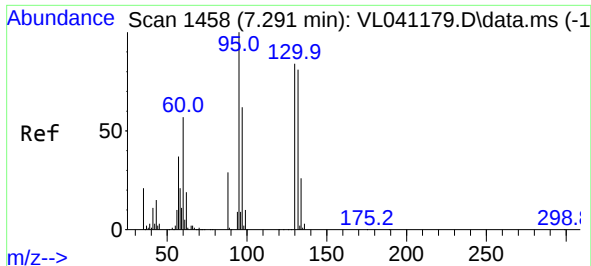
Tgt Ion: 43 Resp: 3645
Ion Ratio Lower Upper
43 100
72 71.7 17.3 25.9#



#35
Carbon Tetrachloride
Concen: 0.038 ppbv
RT: 6.497 min Scan# 1211
Delta R.T. 0.006 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07

Tgt Ion: 117 Resp: 4936
Ion Ratio Lower Upper
117 100
119 62.8 74.3 111.5#
121 52.5 23.8 35.8#





#38

Trichloroethene

Concen: 2.529 ppbv

RT: 7.301 min Scan# 1458

Delta R.T. 0.009 min

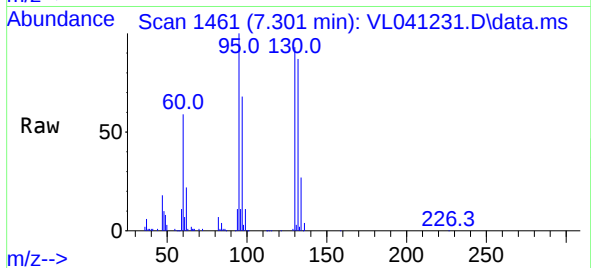
Lab File: VL041231.D

Acq: 7 May 2024 8:07

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:130 Resp: 182114

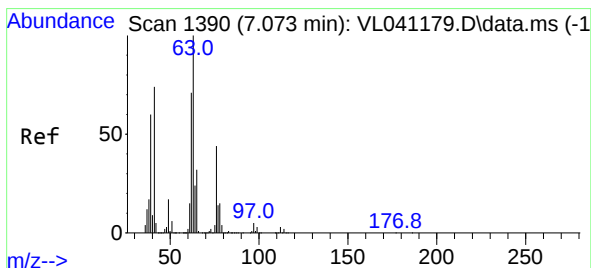
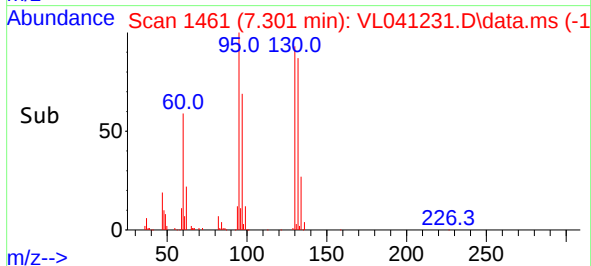
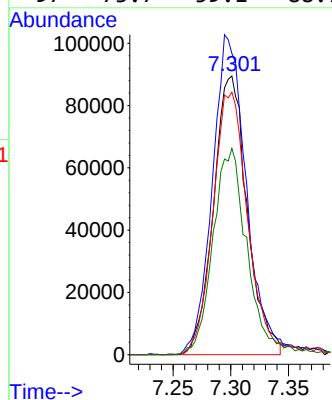
Ion Ratio Lower Upper

130 100

95 107.9 95.0 142.6

132 93.9 77.0 115.4

97 73.7 59.1 88.7



#39

1,2-Dichloropropane

Concen: 7.801 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.415 min

Lab File: VL041231.D

Acq: 7 May 2024 8:07

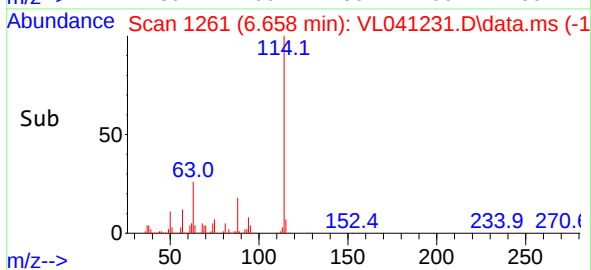
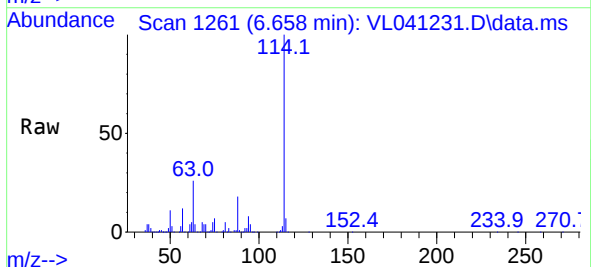
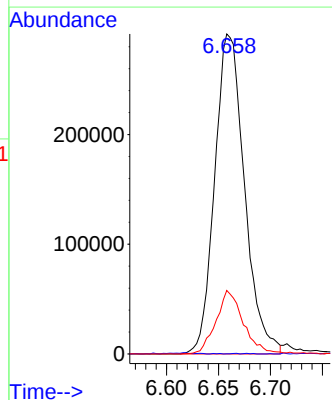
Tgt Ion: 63 Resp: 581097

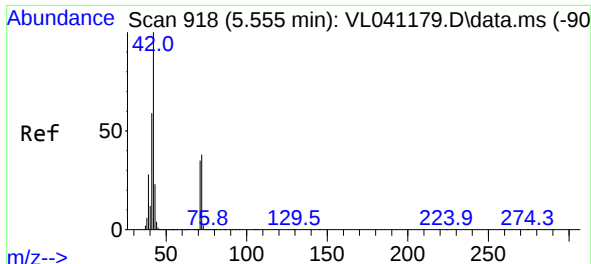
Ion Ratio Lower Upper

63 100

41 0.1 59.4 89.0#

62 19.8 56.8 85.2#

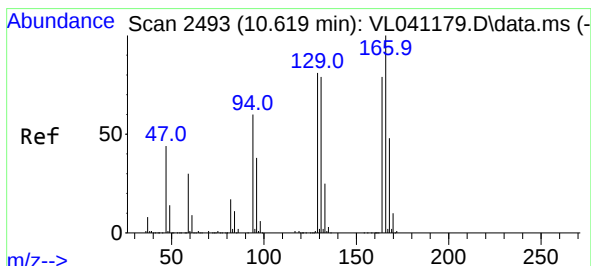
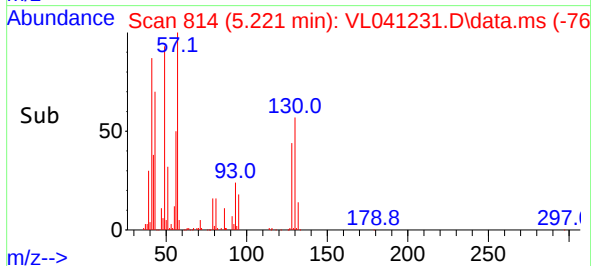
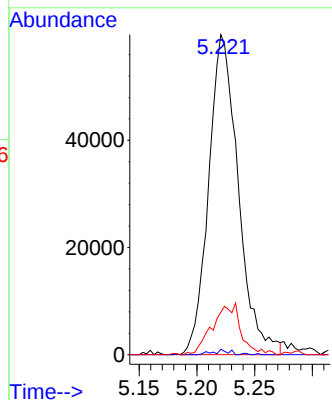
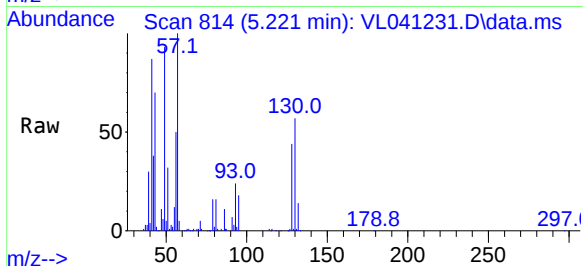




#41
Tetrahydrofuran
Concen: 1.255 ppbv
RT: 5.221 min Scan# 81
Delta R.T. -0.335 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07

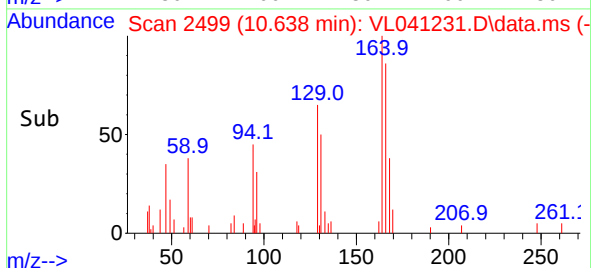
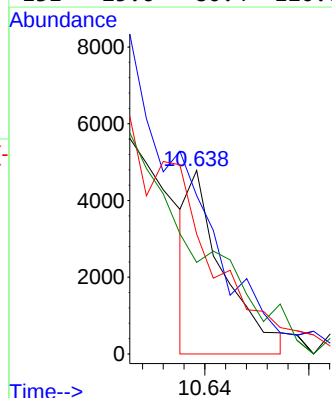
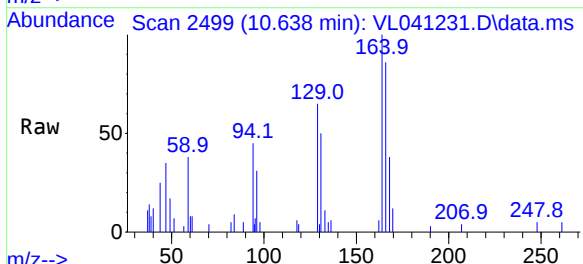
Instrument :
MSVOA_L
ClientSampleId :

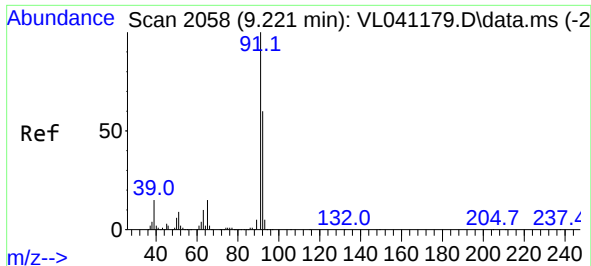
Tgt Ion: 42 Resp: 106531
Ion Ratio Lower Upper
42 100
72 0.9 29.4 44.0#
71 15.9 29.1 43.7#



#52
Tetrachloroethene
Concen: 0.033 ppbv
RT: 10.638 min Scan# 2499
Delta R.T. 0.019 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07

Tgt Ion:164 Resp: 2217
Ion Ratio Lower Upper
164 100
166 84.4 101.1 151.7#
129 57.6 81.7 122.5#
131 25.6 80.4 120.6#

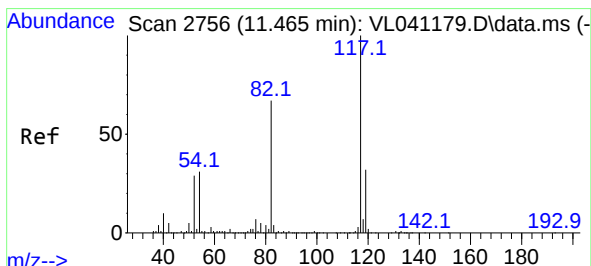
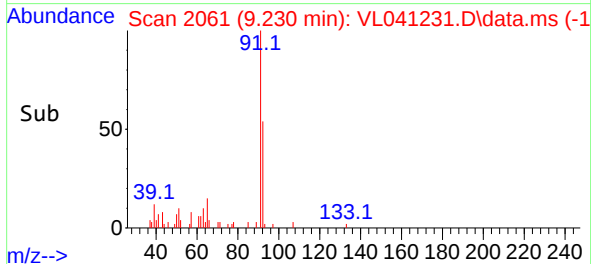
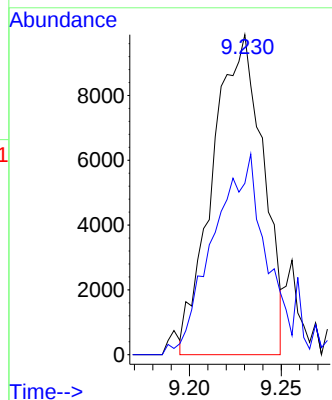
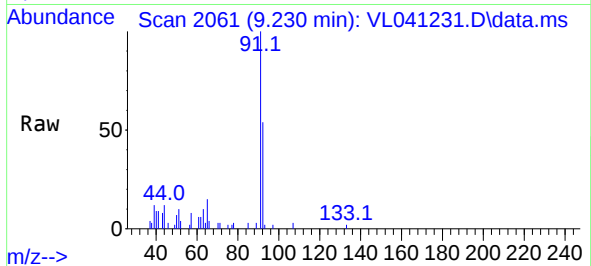




#53
Toluene
Concen: 0.084 ppbv
RT: 9.230 min Scan# 2058
Delta R.T. 0.009 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07

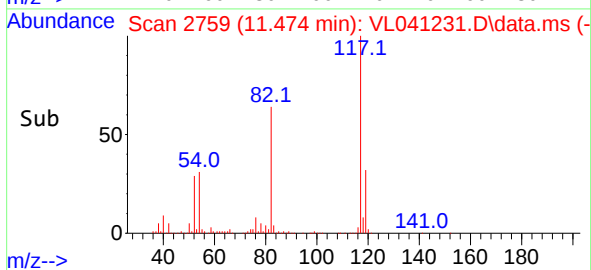
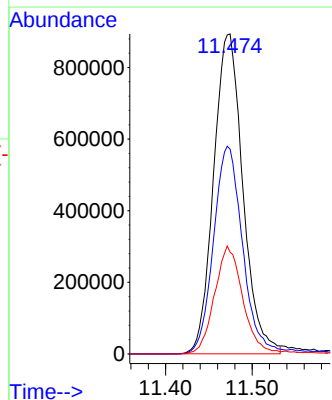
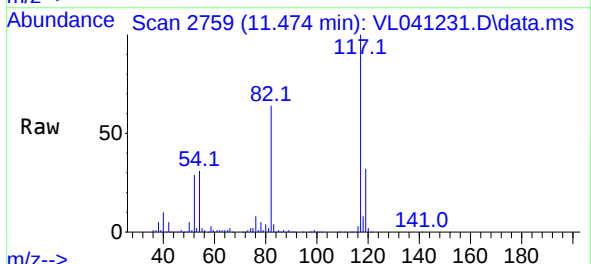
Instrument :
MSVOA_L
ClientSampleId :

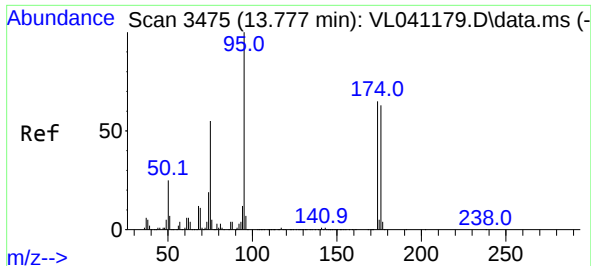
Tgt Ion: 91 Resp: 18854
Ion Ratio Lower Upper
91 100
92 70.4 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 2759
Delta R.T. 0.009 min
Lab File: VL041231.D
Acq: 7 May 2024 8:07

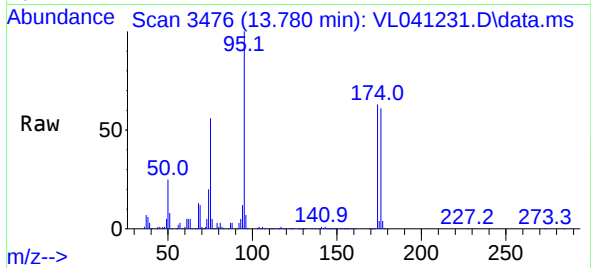
Tgt Ion: 117 Resp: 2096177
Ion Ratio Lower Upper
117 100
82 66.2 53.6 80.4
119 33.3 27.2 40.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.054 ppbv
 RT: 13.780 min Scan# 34
 Delta R.T. 0.003 min
 Lab File: VL041231.D
 Acq: 7 May 2024 8:07

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 1591123

Ion	Ratio	Lower	Upper
95	100		
174	67.7	53.6	80.4
175	5.0	4.2	6.4

