

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060424\
 Data File : VL041302.D
 Acq On : 4 Jun 2024 11:49
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

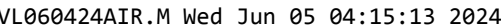
Quant Time: Jun 05 04:15:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 24 23:11:50 2024
 Response via : Initial Calibration

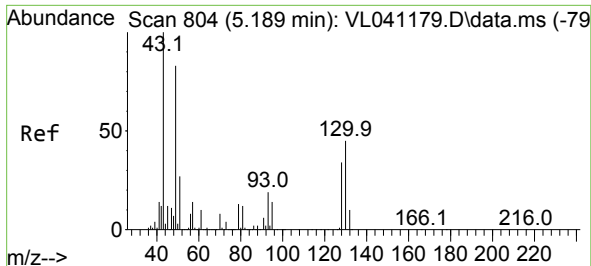
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.202	49	993863	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2607287	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.459	117	2388058	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.774	95	1848284	10.252	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.500%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.758	85	16693	0.124	ppbv	97
3) Chlorodifluoromethane	2.700	51	14064	0.093	ppbv	97
6) Bromomethane	3.141	94	1418	0.065	ppbv #	72
7) Chloroethane	3.211	64	1254	0.060	ppbv	89
8) Dichlorotetrafluoroethane	2.880	85	12624	0.091	ppbv	98
9) Propene	2.716	41	3836	0.065	ppbv #	15
11) Trichlorofluoromethane	3.578	101	12656	0.093	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.079	101	8373	0.083	ppbv	88
18) 1,1-Dichloroethene	3.893	96	2250	0.050	ppbv	89
20) Methylene Chloride	3.948	84	6012	0.147	ppbv #	62
21) Allyl Chloride	4.005	41	2356	0.031	ppbv #	19
22) trans-1,2-Dichloroethene	4.465	96	1560	0.033	ppbv #	54
24) 1,1-Dichloroethane	4.571	63	6226	0.062	ppbv #	94
26) Hexane	5.224	57	6686	0.064	ppbv #	1
27) Carbon Disulfide	4.140	76	5495	0.044	ppbv #	17
29) Chloroform	5.282	83	12449	0.086	ppbv	88
31) cis-1,2-Dichloroethene	5.089	61	6398	0.065	ppbv #	88
32) 1,1,1-Trichloroethane	6.012	97	12670	0.088	ppbv	95
35) Carbon Tetrachloride	6.497	117	11593	0.079	ppbv #	81
36) Benzene	6.375	78	14917	0.068	ppbv #	80
37) 1,2-Dichloroethane	5.812	62	3923	0.034	ppbv #	65
38) Trichloroethene	7.288	130	3852	0.047	ppbv	85
39) 1,2-Dichloropropane	6.655	63	658150	7.805	ppbv #	23
42) Bromodichloromethane	7.246	83	5501	0.034	ppbv	96
46) cis-1,3-Dichloropropene	8.144	75	2987	0.038	ppbv #	41
48) Dibromochloromethane	9.703	129	4858	0.036	ppbv #	10
52) Tetrachloroethene	10.610	164	2794	0.036	ppbv #	9
53) Toluene	9.214	91	8749	0.034	ppbv #	20
54) 1,2-Dibromoethane	10.012	107	7837	0.069	ppbv	90
57) Chlorobenzene	11.520	112	8991	0.051	ppbv #	58
60) o-Xylene	13.057	91	12499	0.048	ppbv	73
62) Isopropylbenzene	14.024	105	22839	0.059	ppbv	91
67) sec-Butylbenzene	16.626	105	14762	0.030	ppbv #	44

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

Quant Time: Jun 05 04:15:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 24 23:11:50 2024
Response via : Initial Calibration

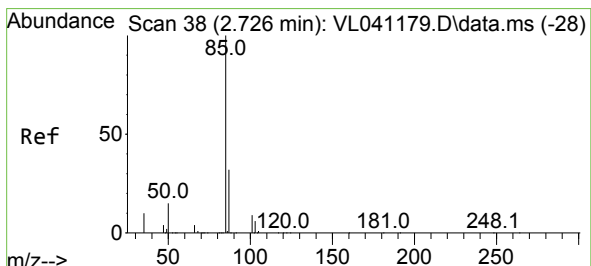
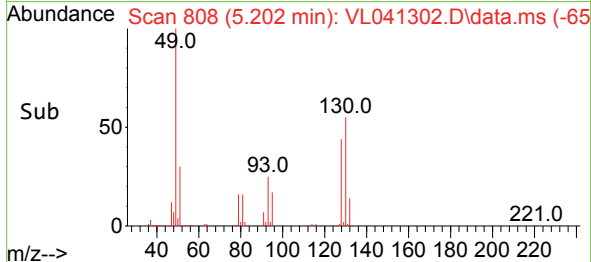
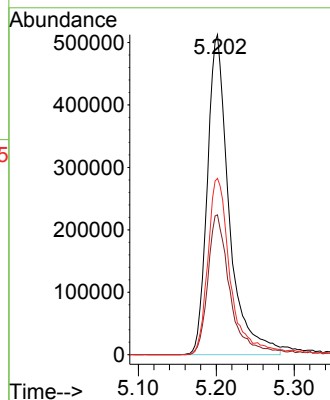
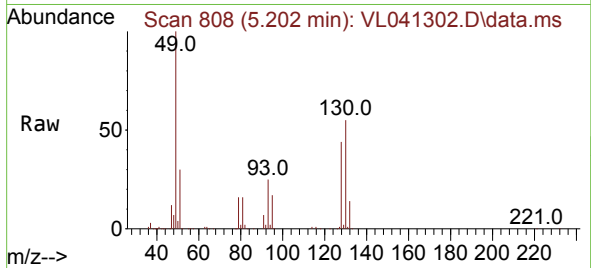




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.202 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

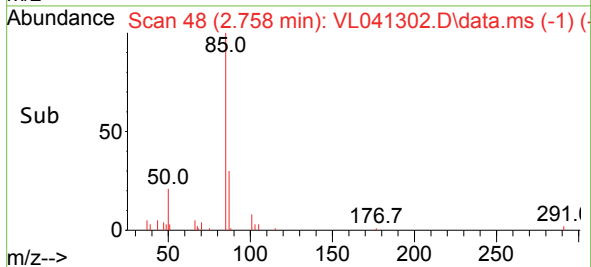
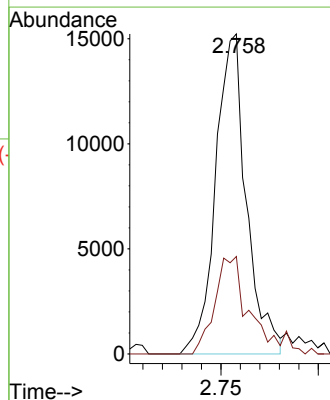
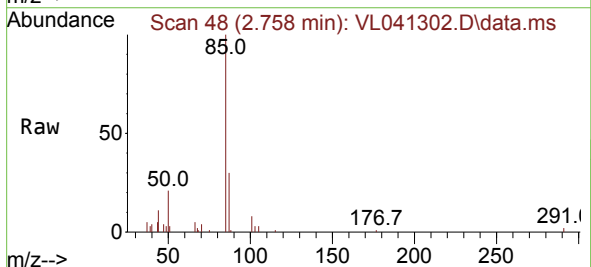
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

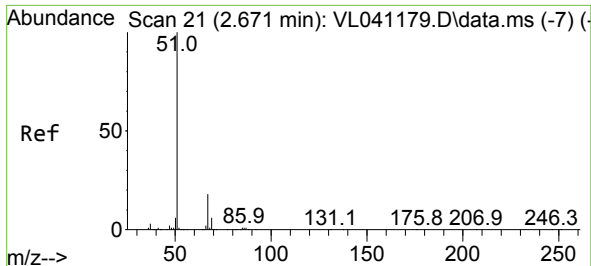
Tgt Ion: 49 Resp: 993863
Ion Ratio Lower Upper
49 100
128 46.4 21.5 64.5
130 59.0 27.2 81.6



#2
Dichlorodifluoromethane
Concen: 0.124 ppbv
RT: 2.758 min Scan# 48
Delta R.T. 0.013 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

Tgt Ion: 85 Resp: 16693
Ion Ratio Lower Upper
85 100
87 30.4 25.7 38.5

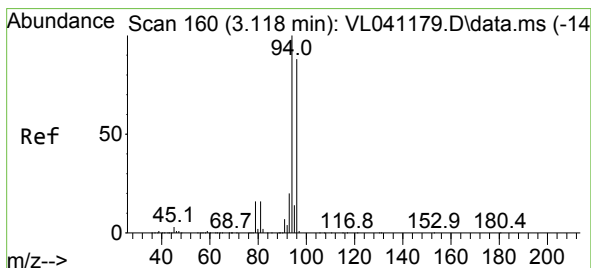
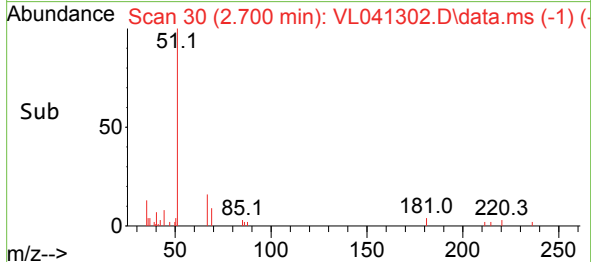
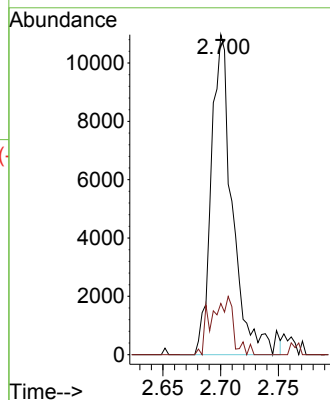
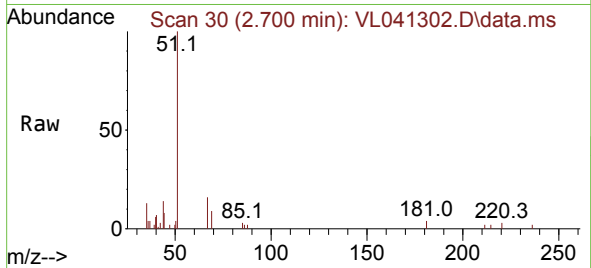




#3
Chlorodifluoromethane
Concen: 0.093 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.010 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

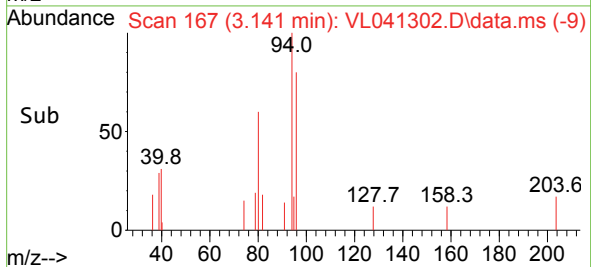
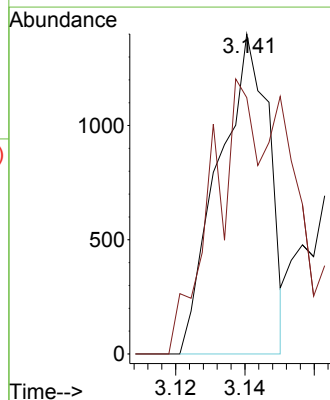
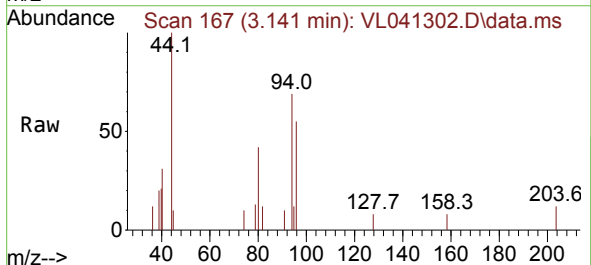
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

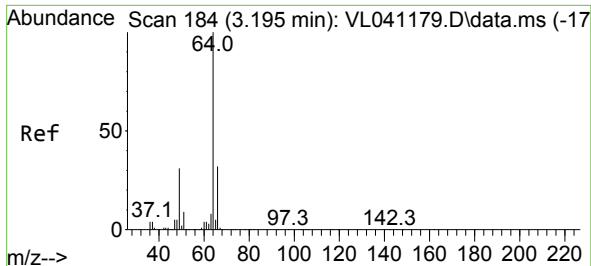
Tgt Ion: 51 Resp: 14064
Ion Ratio Lower Upper
51 100
67 18.7 14.0 21.0



#6
Bromomethane
Concen: 0.065 ppbv
RT: 3.141 min Scan# 167
Delta R.T. 0.007 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

Tgt Ion: 94 Resp: 1418
Ion Ratio Lower Upper
94 100
96 61.2 70.1 105.1#

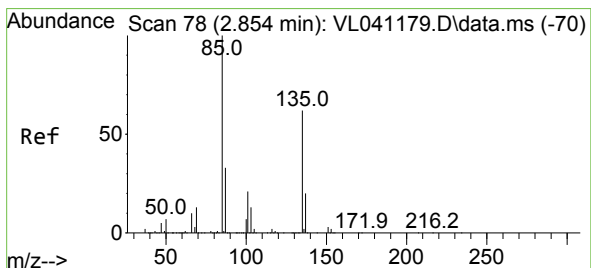
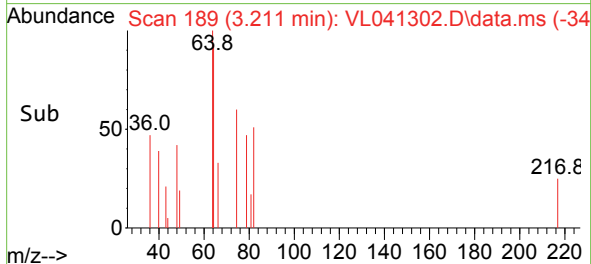
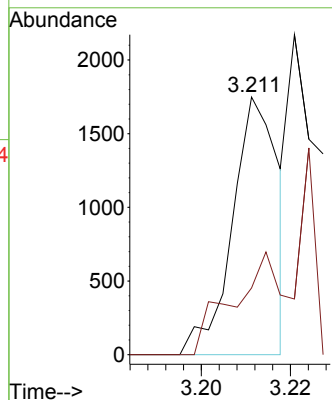
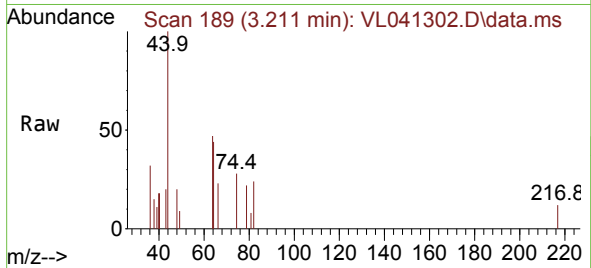




#7
Chloroethane
Concen: 0.060 ppbv
RT: 3.211 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

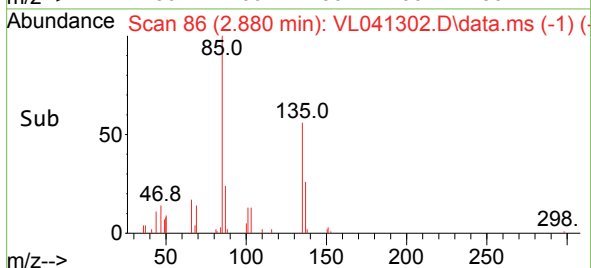
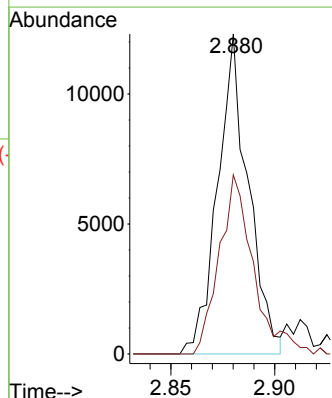
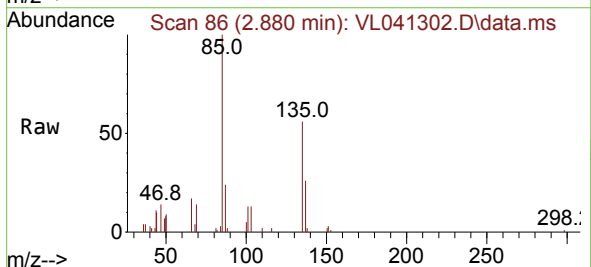
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

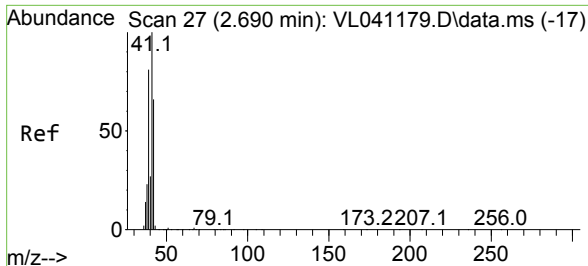
Tgt Ion: 64 Resp: 1254
Ion Ratio Lower Upper
64 100
66 25.9 25.4 38.2



#8
Dichlorotetrafluoroethane
Concen: 0.091 ppbv
RT: 2.880 min Scan# 86
Delta R.T. 0.007 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

Tgt Ion: 85 Resp: 12624
Ion Ratio Lower Upper
85 100
135 62.5 51.5 77.3

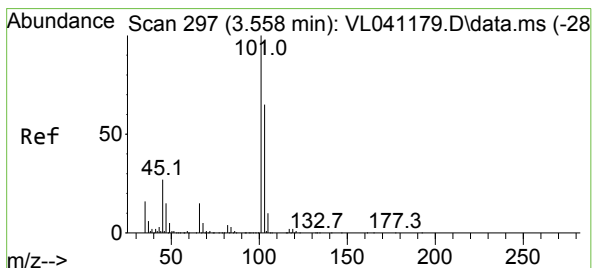
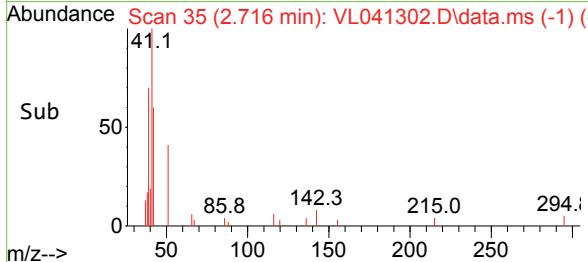
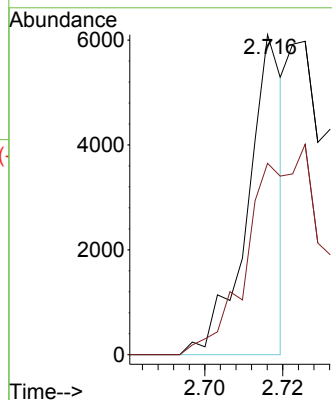
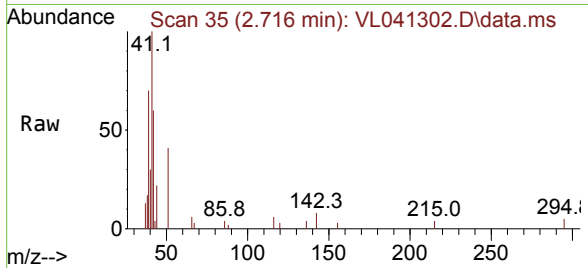




#9
Propene
Concen: 0.065 ppbv
RT: 2.716 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

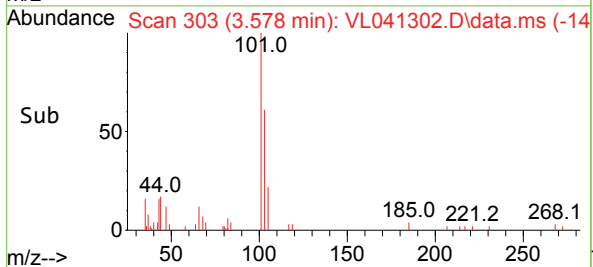
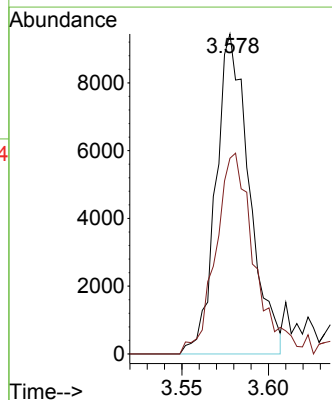
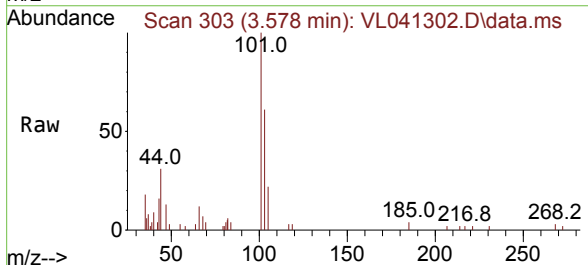
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

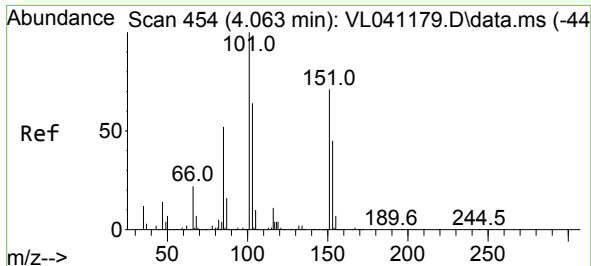
Tgt Ion: 41 Resp: 3836
Ion Ratio Lower Upper
41 100
42 0.0 55.3 82.9#



#11
Trichlorofluoromethane
Concen: 0.093 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.000 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

Tgt Ion: 101 Resp: 12656
Ion Ratio Lower Upper
101 100
103 61.1 51.6 77.4

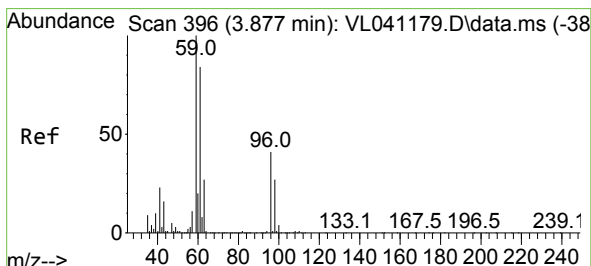
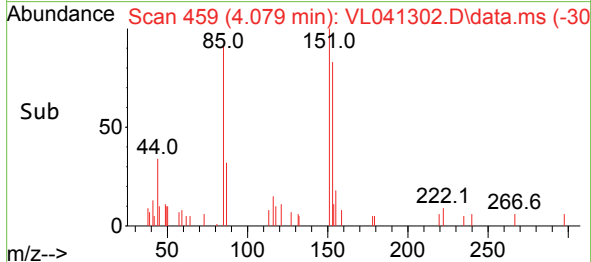
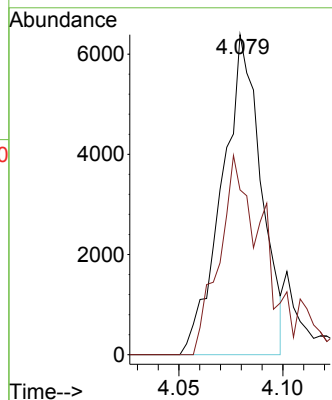
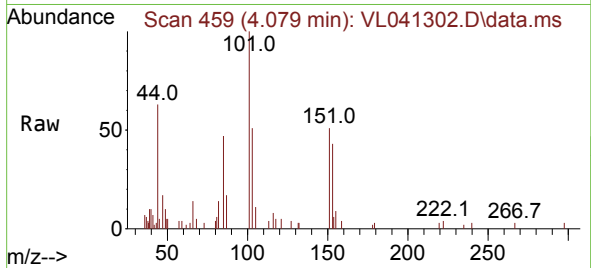




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.083 ppbv
 RT: 4.079 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VL041302.D
 Acq: 4 Jun 2024 11:49

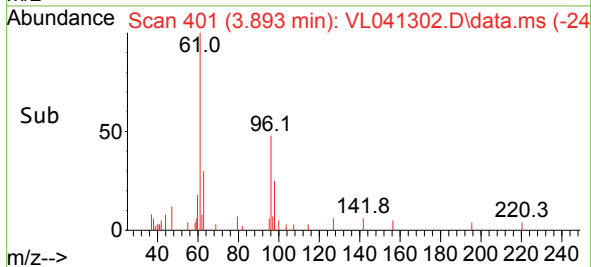
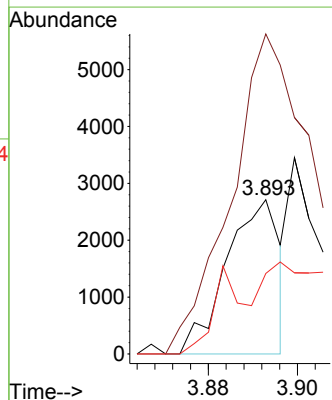
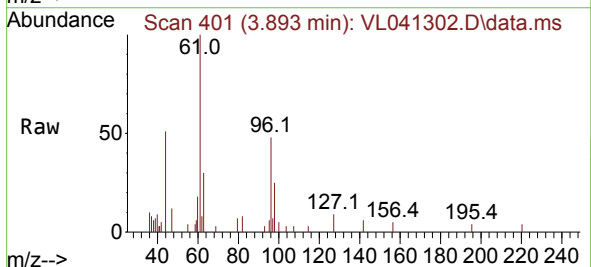
Instrument :
 MSVOA_L
 ClientSampleId :
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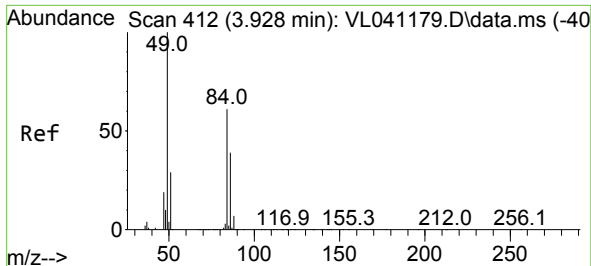
Tgt Ion:101 Resp: 8373
 Ion Ratio Lower Upper
 101 100
 151 80.7 56.8 85.2



#18
 1,1-Dichloroethene
 Concen: 0.050 ppbv
 RT: 3.893 min Scan# 401
 Delta R.T. -0.003 min
 Lab File: VL041302.D
 Acq: 4 Jun 2024 11:49

Tgt Ion: 96 Resp: 2250
 Ion Ratio Lower Upper
 96 100
 61 190.1 164.4 246.6
 98 52.2 51.8 77.8

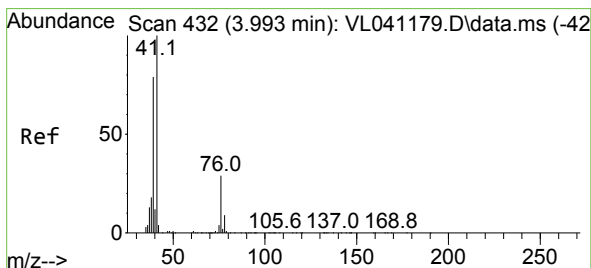
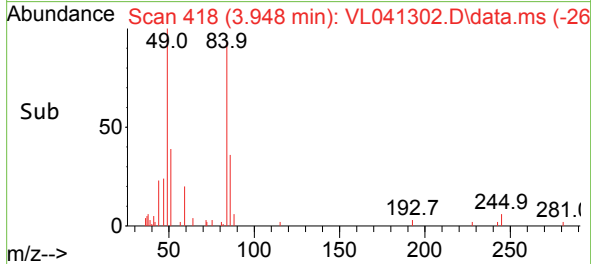
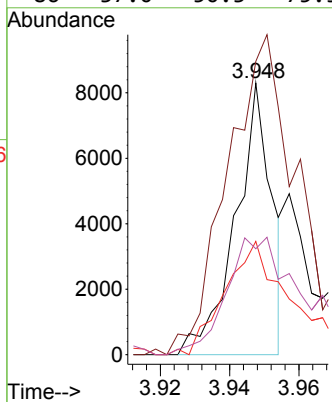
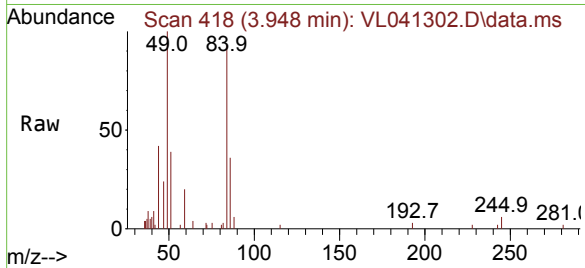




#20
Methylene Chloride
Concen: 0.147 ppbv
RT: 3.948 min Scan# 412
Delta R.T. 0.000 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

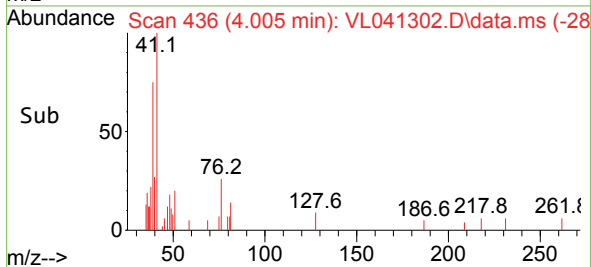
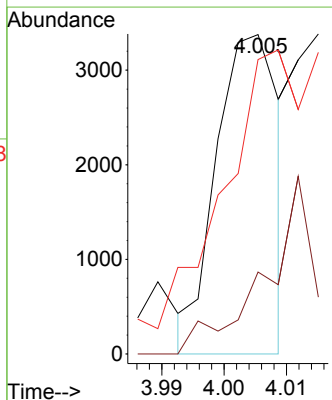
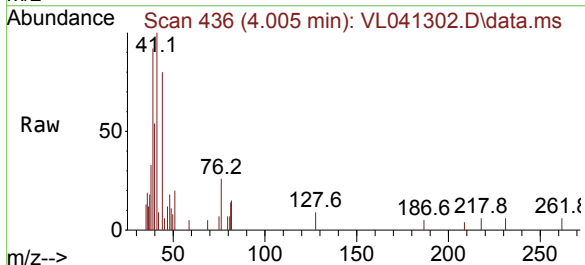
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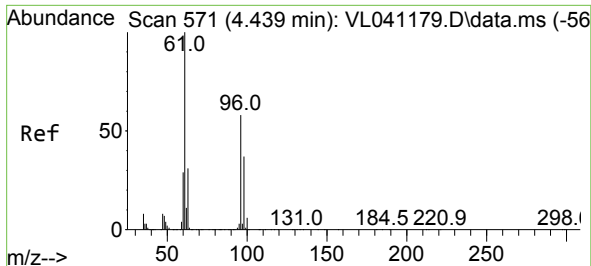
Tgt Ion:	84	Resp:	6012
Ion	Ratio	Lower	Upper
84	100		
49	100.3	130.4	195.6#
51	39.7	38.0	57.0
86	37.0	50.3	75.5#



#21
Allyl Chloride
Concen: 0.031 ppbv
RT: 4.005 min Scan# 436
Delta R.T. -0.006 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

Tgt Ion:	41	Resp:	2356
Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.7	35.5#
39	0.0	64.7	97.1#

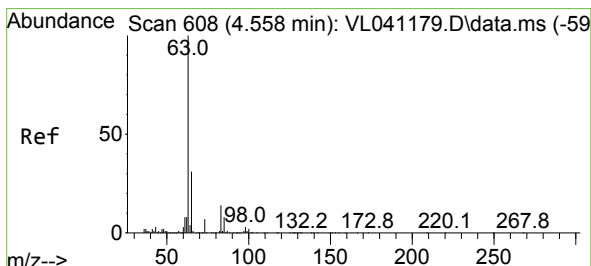
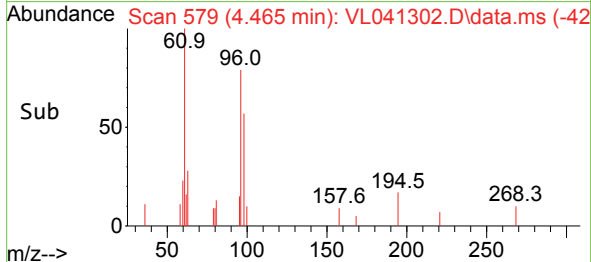
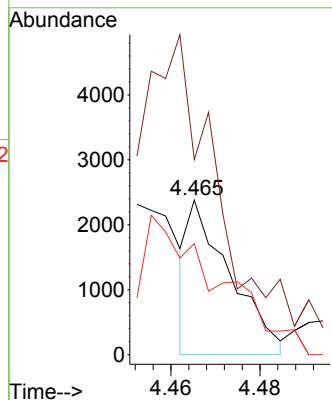
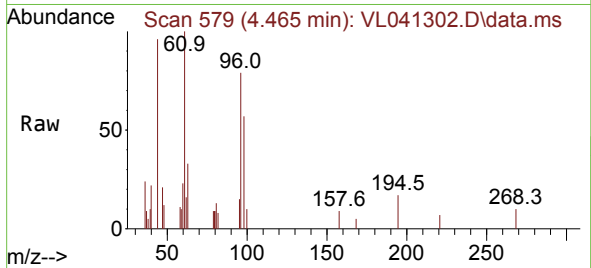




#22
trans-1,2-Dichloroethene
Concen: 0.033 ppbv
RT: 4.465 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

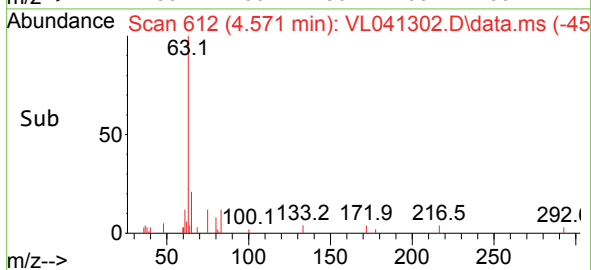
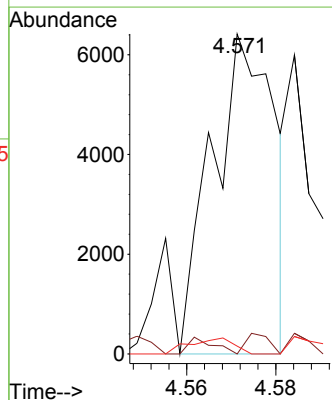
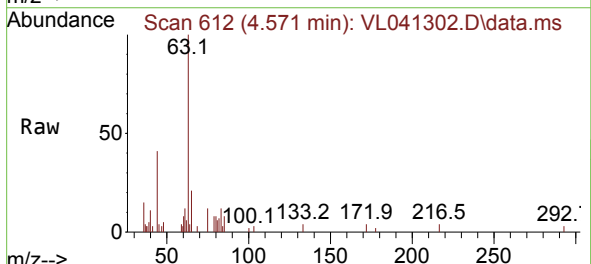
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

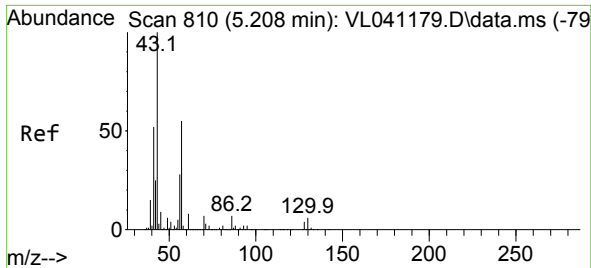
Tgt Ion: 96 Resp: 1560
Ion Ratio Lower Upper
96 100
61 85.0 137.6 206.4#
98 62.2 50.6 76.0



#24
1,1-Dichloroethane
Concen: 0.062 ppbv
RT: 4.571 min Scan# 612
Delta R.T. -0.006 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

Tgt Ion: 63 Resp: 6226
Ion Ratio Lower Upper
63 100
98 0.0 1.6 4.8#
100 2.4 1.1 3.5

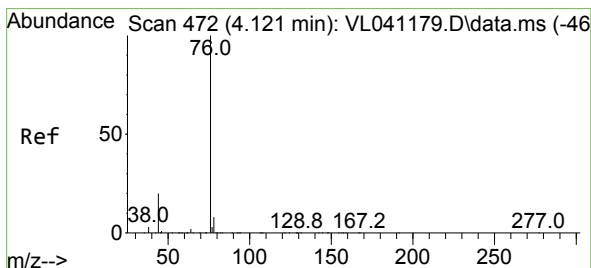
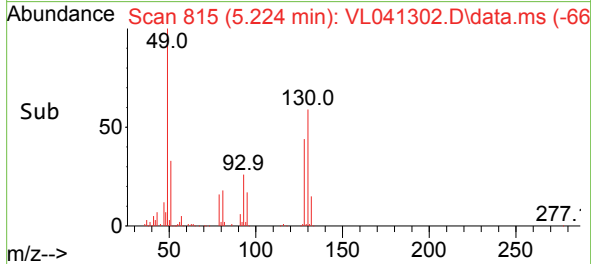
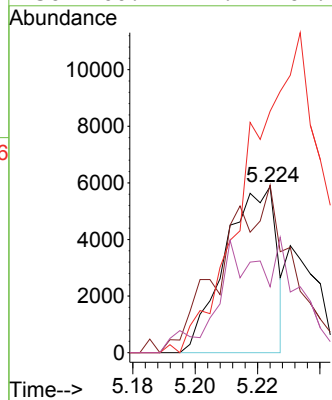
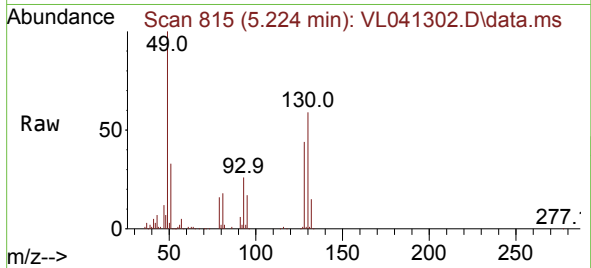




#26
Hexane
Concen: 0.064 ppbv
RT: 5.224 min Scan# 810
Delta R.T. -0.003 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

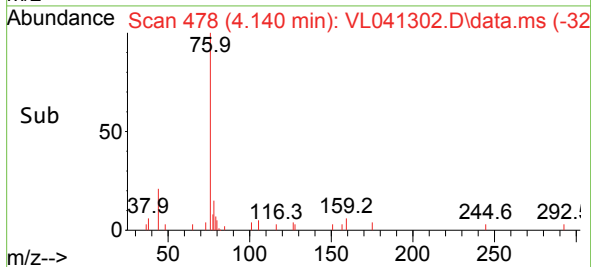
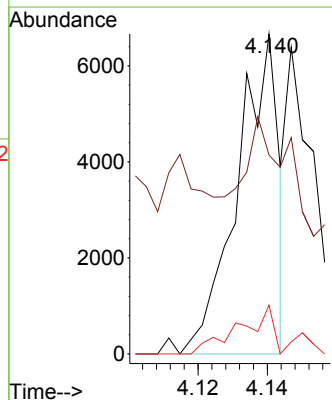
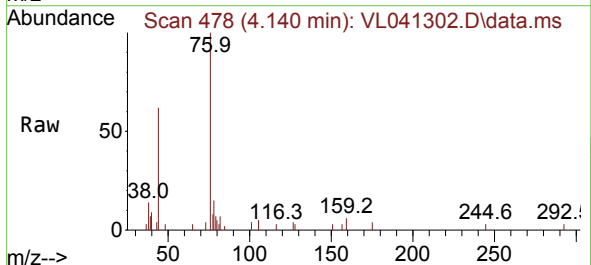
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

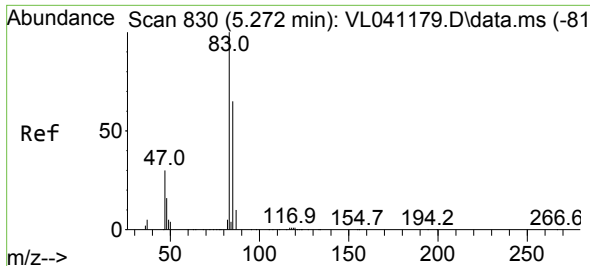
Tgt Ion: 57 Resp: 6686
Ion Ratio Lower Upper
57 100
41 167.4 75.8 113.8#
43 0.0 187.0 280.4#
56 100.7 42.7 64.1#



#27
Carbon Disulfide
Concen: 0.044 ppbv
RT: 4.140 min Scan# 478
Delta R.T. 0.000 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

Tgt Ion: 76 Resp: 5495
Ion Ratio Lower Upper
76 100
44 70.8 16.3 24.5#
78 18.6 7.3 10.9#

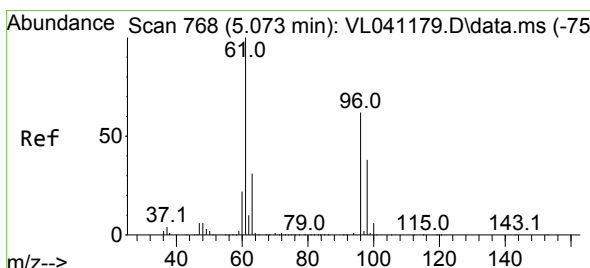
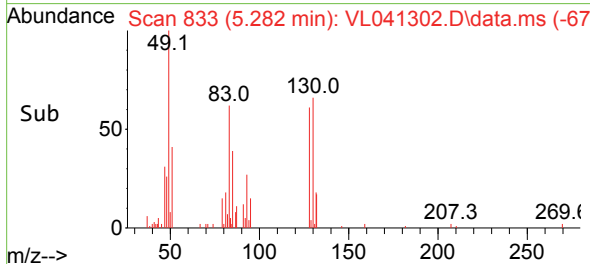
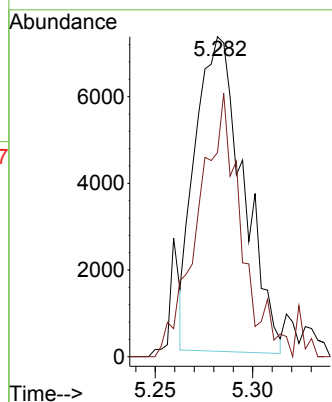
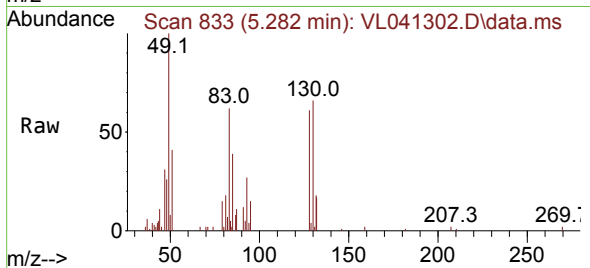




#29
Chloroform
Concen: 0.086 ppbv
RT: 5.282 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

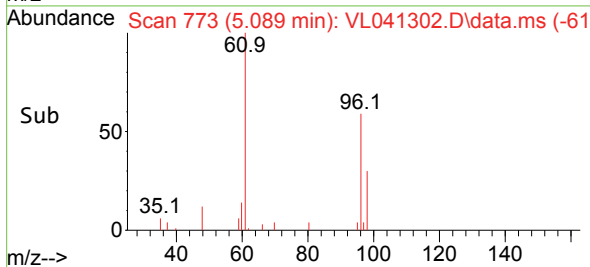
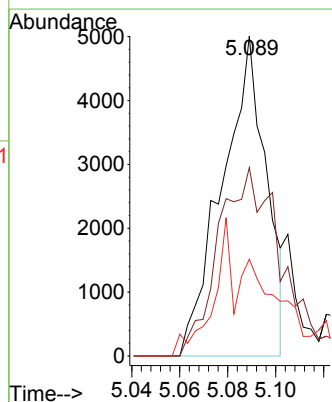
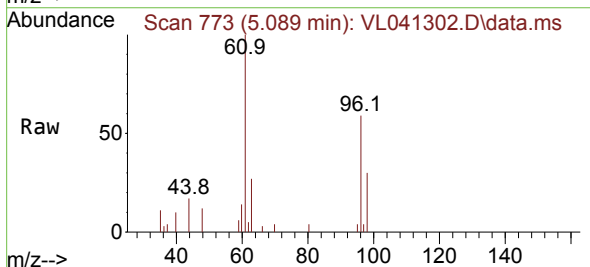
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

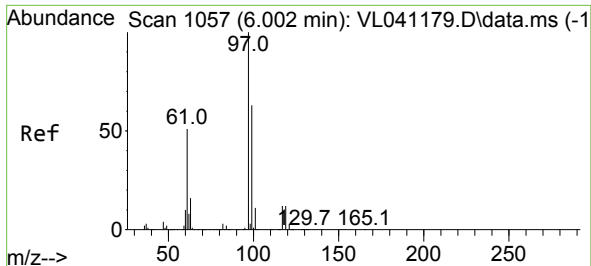
Tgt Ion: 83 Resp: 12449
Ion Ratio Lower Upper
83 100
85 55.5 51.7 77.5



#31
cis-1,2-Dichloroethene
Concen: 0.065 ppbv
RT: 5.089 min Scan# 773
Delta R.T. -0.006 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

Tgt Ion: 61 Resp: 6398
Ion Ratio Lower Upper
61 100
96 58.8 49.8 74.6
98 23.4 30.0 45.0#



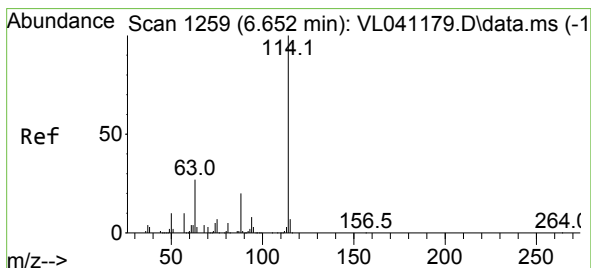
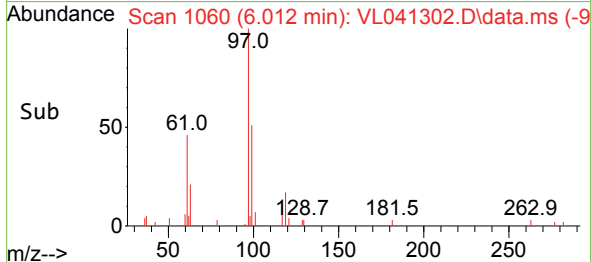
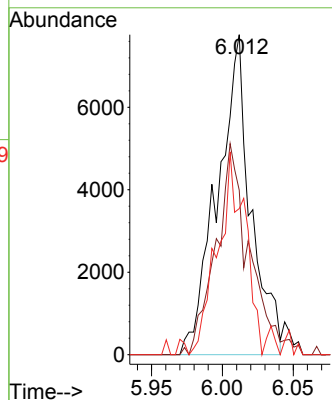
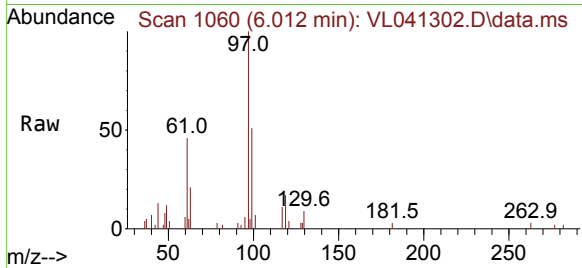


#32
 1,1,1-Trichloroethane
 Concen: 0.088 ppbv
 RT: 6.012 min Scan# 1057
 Delta R.T. -0.006 min
 Lab File: VL041302.D
 Acq: 4 Jun 2024 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion: 97 Resp: 12670

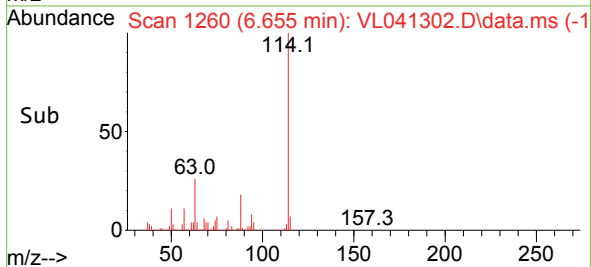
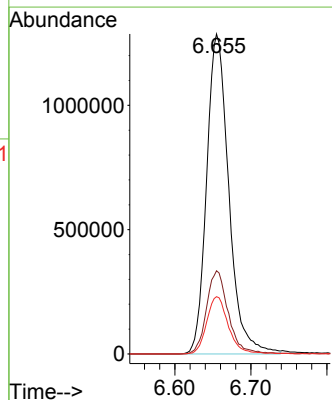
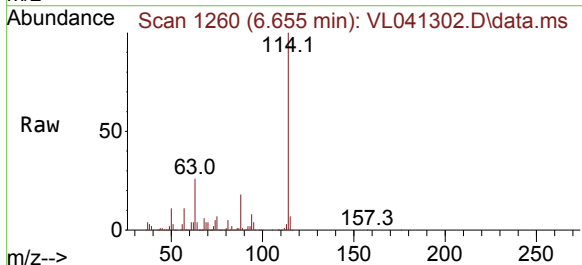
Ion	Ratio	Lower	Upper
97	100		
99	66.8	51.7	77.5
61	57.5	41.1	61.7

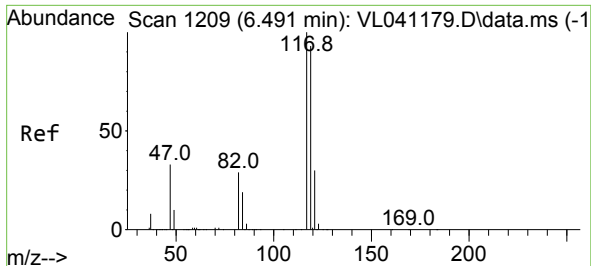


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.655 min Scan# 1260
 Delta R.T. -0.013 min
 Lab File: VL041302.D
 Acq: 4 Jun 2024 11:49

Tgt Ion: 114 Resp: 2607287

Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.8	32.6
88	17.6	15.2	22.8

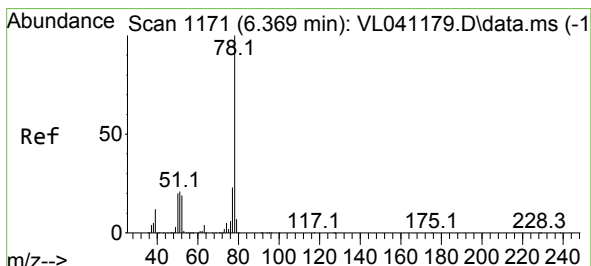
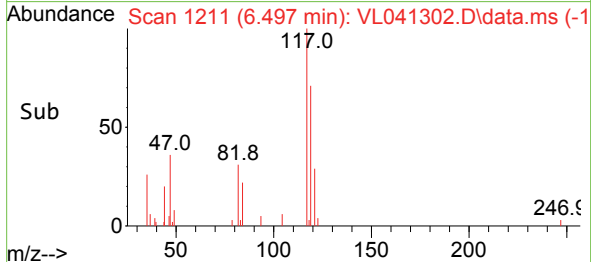
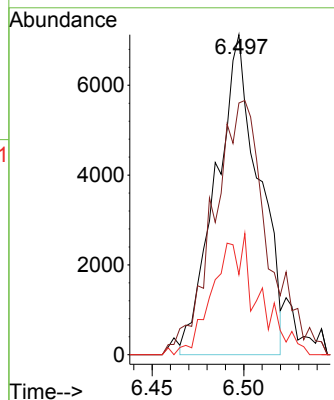
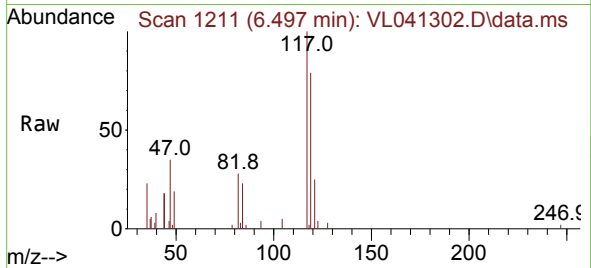




#35
Carbon Tetrachloride
Concen: 0.079 ppbv
RT: 6.497 min Scan# 1173
Delta R.T. -0.013 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

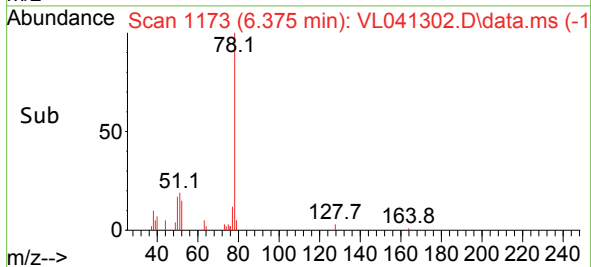
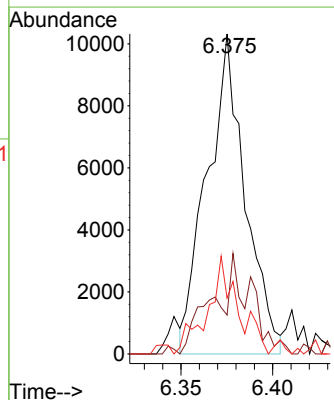
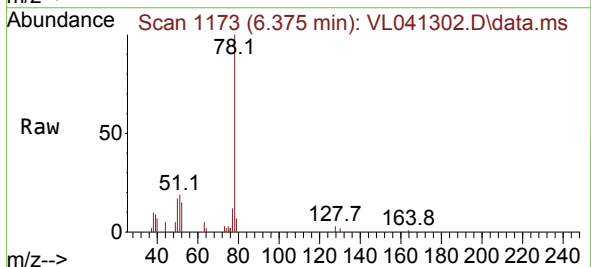
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.1

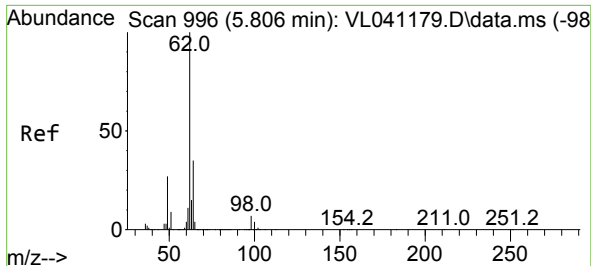
Tgt Ion:117 Resp: 11593
Ion Ratio Lower Upper
117 100
119 72.6 74.3 111.5#
121 23.5 23.8 35.8#



#36
Benzene
Concen: 0.068 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. -0.010 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

Tgt Ion: 78 Resp: 14917
Ion Ratio Lower Upper
78 100
77 8.4 18.3 27.5#
50 16.4 15.9 23.9





#37

1,2-Dichloroethane

Concen: 0.034 ppbv

RT: 5.812 min Scan# 996

Delta R.T. -0.009 min

Lab File: VL041302.D

Acq: 4 Jun 2024 11:49

Instrument :

MSVOA_1

ClientSampleId :

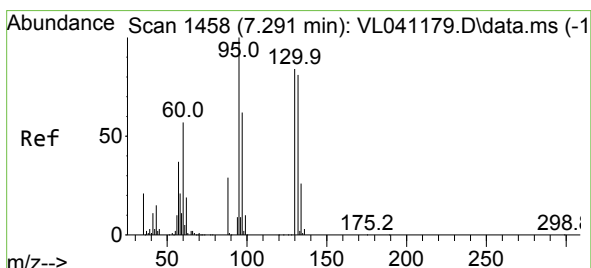
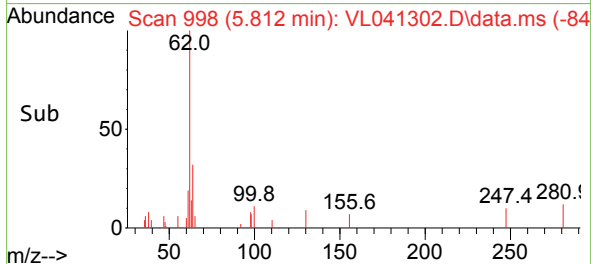
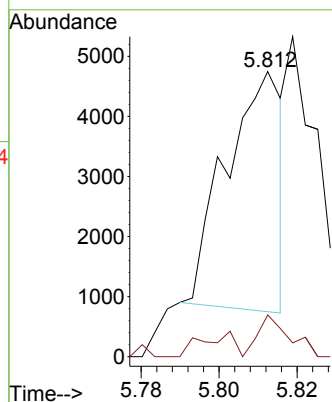
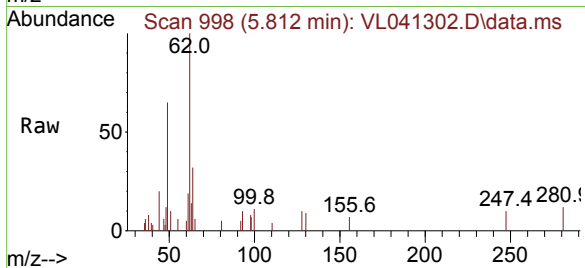
VSTDIC0.1

Tgt Ion: 62 Resp: 3923

Ion Ratio Lower Upper

62 100

98 18.1 5.0 7.4#



#38

Trichloroethene

Concen: 0.047 ppbv

RT: 7.288 min Scan# 1457

Delta R.T. -0.019 min

Lab File: VL041302.D

Acq: 4 Jun 2024 11:49

Tgt Ion:130 Resp: 3852

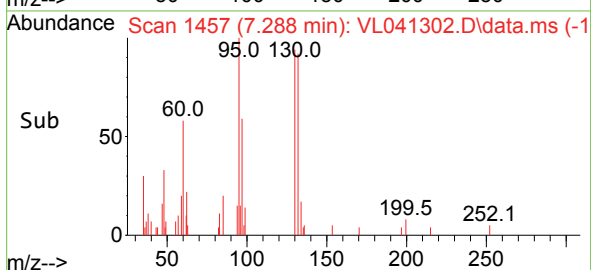
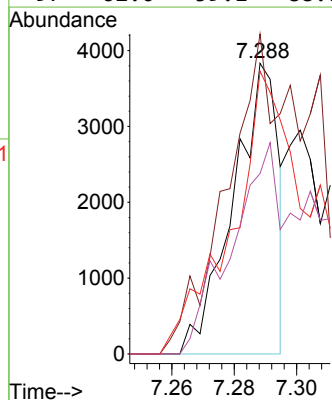
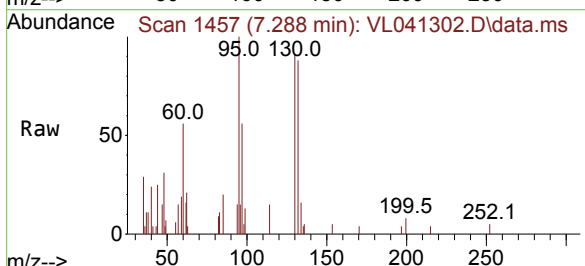
Ion Ratio Lower Upper

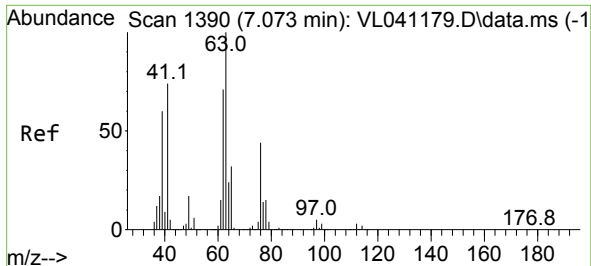
130 100

95 99.0 95.0 142.6

132 85.4 77.0 115.4

97 62.0 59.1 88.7





#39

1,2-Dichloropropane

Concen: 7.805 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.434 min

Lab File: VL041302.D

Acq: 4 Jun 2024 11:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

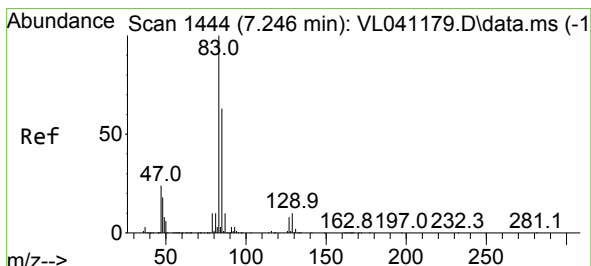
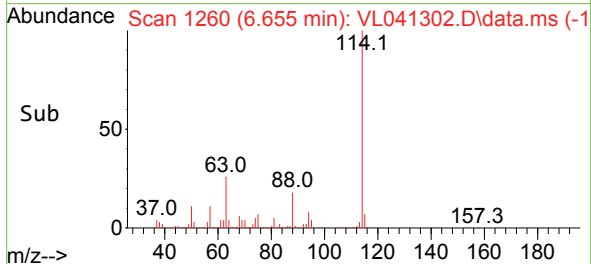
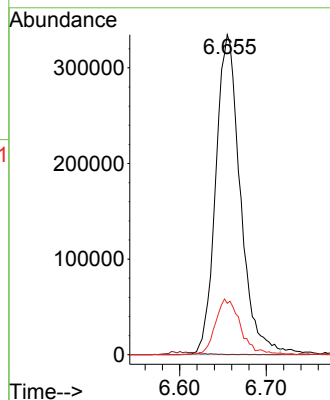
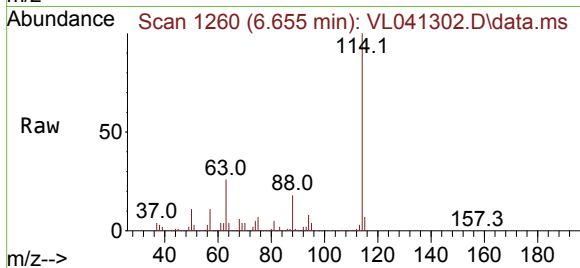
Tgt Ion: 63 Resp: 658150

Ion Ratio Lower Upper

63 100

41 0.0 59.4 89.0#

62 16.1 56.8 85.2#



#42

Bromodichloromethane

Concen: 0.034 ppbv

RT: 7.246 min Scan# 1444

Delta R.T. -0.016 min

Lab File: VL041302.D

Acq: 4 Jun 2024 11:49

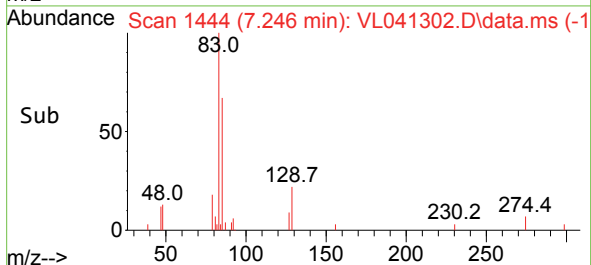
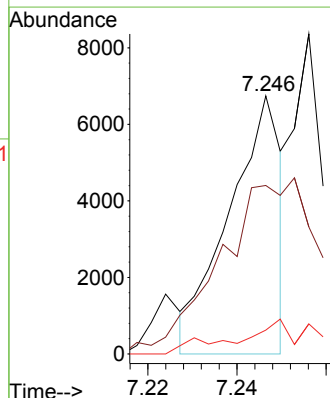
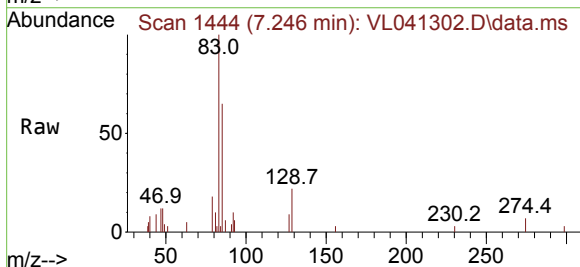
Tgt Ion: 83 Resp: 5501

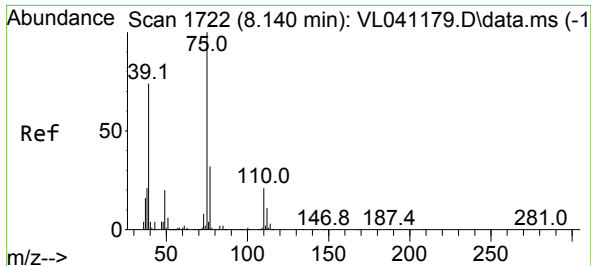
Ion Ratio Lower Upper

83 100

85 60.1 50.6 75.8

127 7.2 6.2 9.4

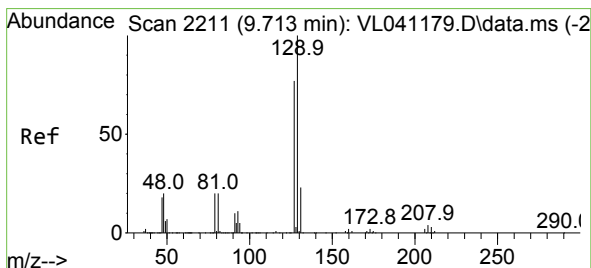
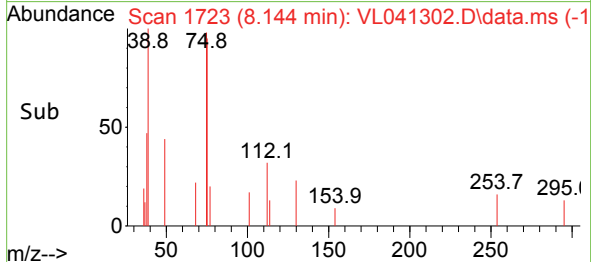
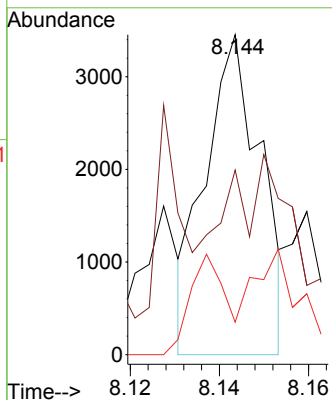
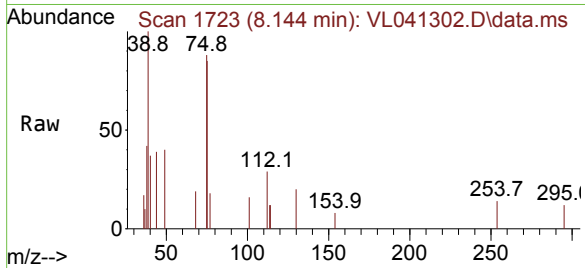




#46
 cis-1,3-Dichloropropene
 Concen: 0.038 ppbv
 RT: 8.144 min Scan# 1
 Delta R.T. -0.013 min
 Lab File: VL041302.D
 Acq: 4 Jun 2024 11:49

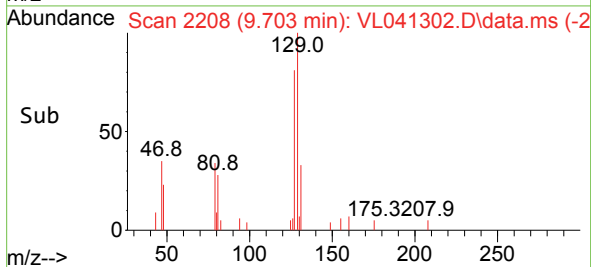
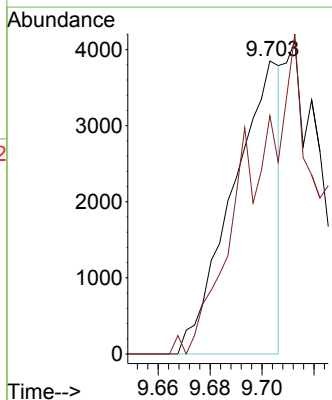
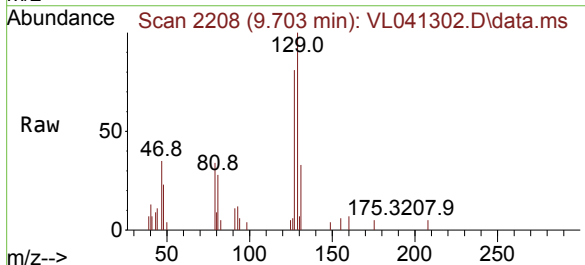
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

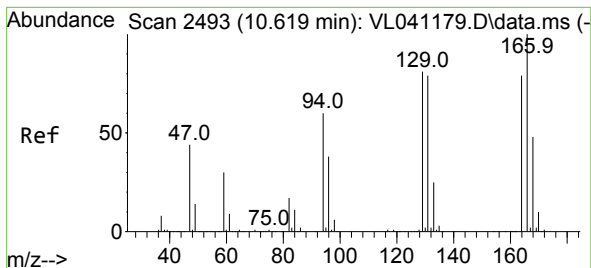
Tgt Ion: 75 Resp: 2987
 Ion Ratio Lower Upper
 75 100
 39 19.1 59.4 89.2#
 77 7.8 25.9 38.9#



#48
 Dibromochloromethane
 Concen: 0.036 ppbv
 RT: 9.703 min Scan# 2208
 Delta R.T. -0.022 min
 Lab File: VL041302.D
 Acq: 4 Jun 2024 11:49

Tgt Ion: 129 Resp: 4858
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.5#





#52

Tetrachloroethene

Concen: 0.036 ppbv

RT: 10.610 min Scan# 2493

Delta R.T. -0.019 min

Lab File: VL041302.D

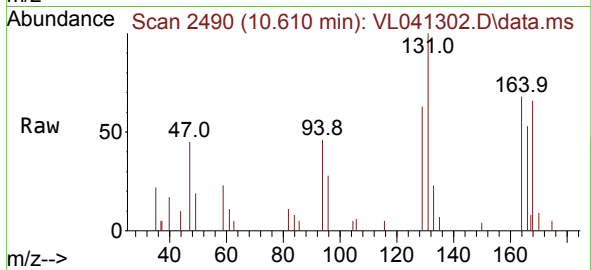
Acq: 4 Jun 2024 11:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1



Tgt Ion:164 Resp: 2794

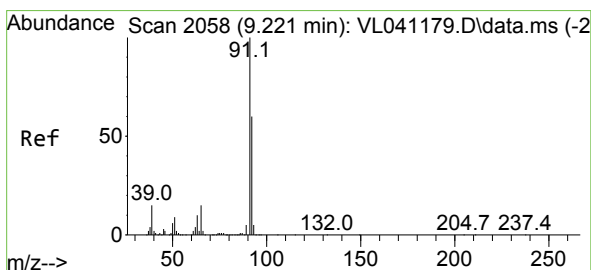
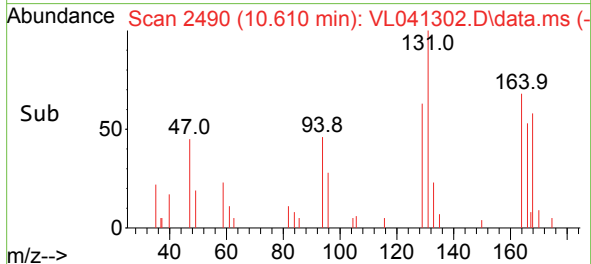
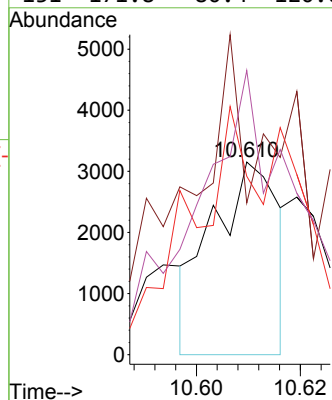
Ion Ratio Lower Upper

164 100

166 0.0 101.1 151.7#

129 13.6 81.7 122.5#

131 171.8 80.4 120.6#



#53

Toluene

Concen: 0.034 ppbv

RT: 9.214 min Scan# 2056

Delta R.T. -0.019 min

Lab File: VL041302.D

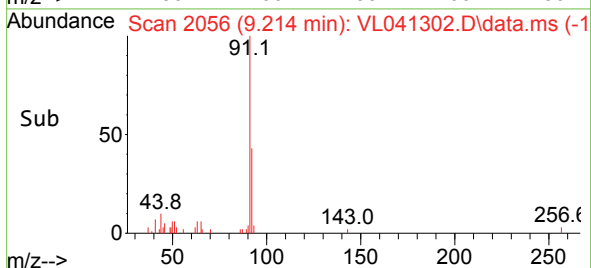
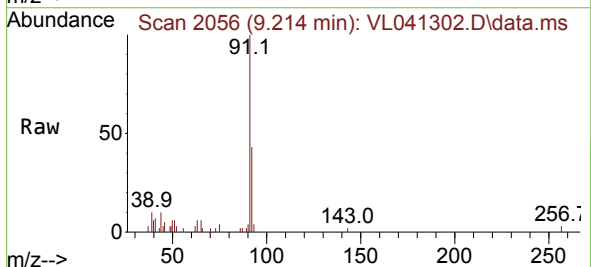
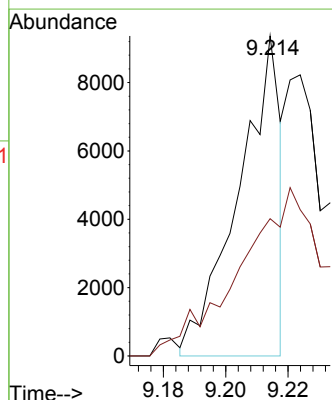
Acq: 4 Jun 2024 11:49

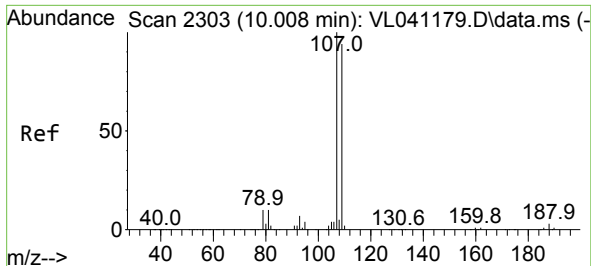
Tgt Ion: 91 Resp: 8749

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.4#

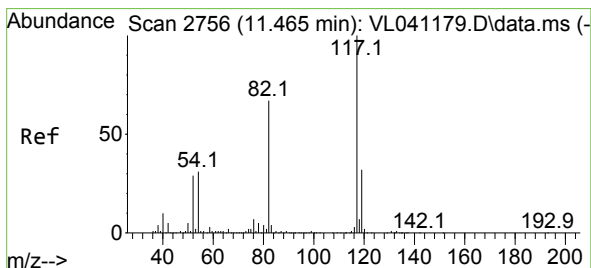
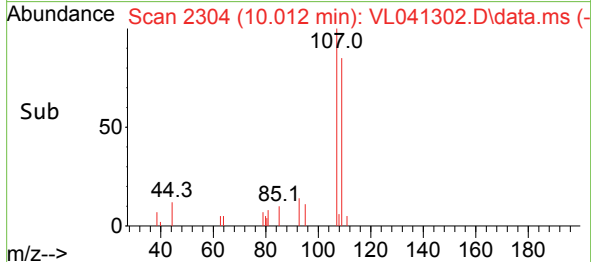
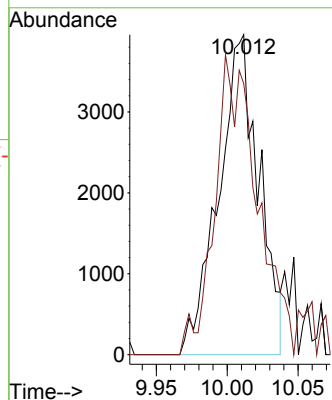
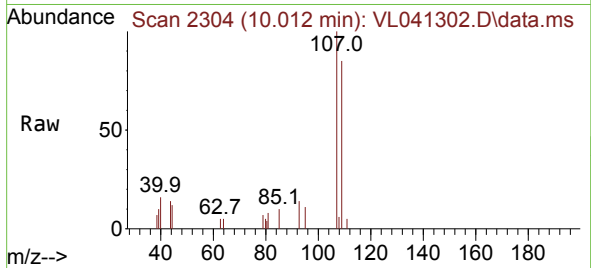




#54
1,2-Dibromoethane
Concen: 0.069 ppbv
RT: 10.012 min Scan# 21
Delta R.T. -0.009 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

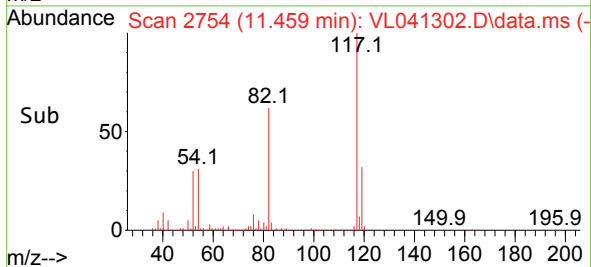
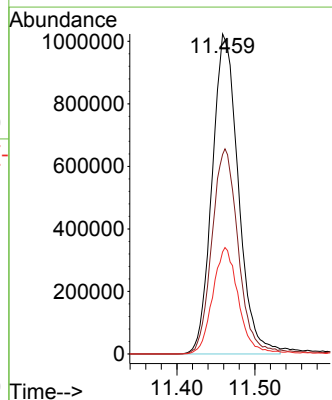
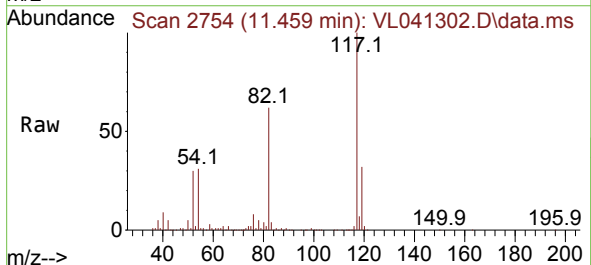
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

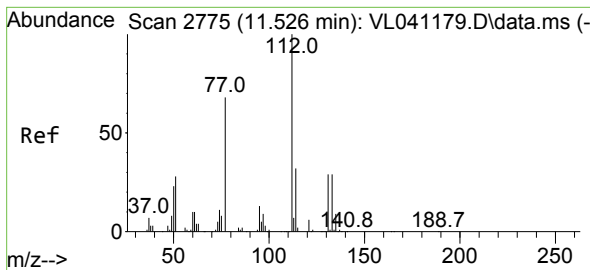
Tgt Ion:107 Resp: 7837
Ion Ratio Lower Upper
107 100
109 84.7 75.2 112.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.459 min Scan# 2754
Delta R.T. -0.022 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

Tgt Ion:117 Resp: 2388058
Ion Ratio Lower Upper
117 100
82 65.3 53.6 80.4
119 33.3 27.2 40.8

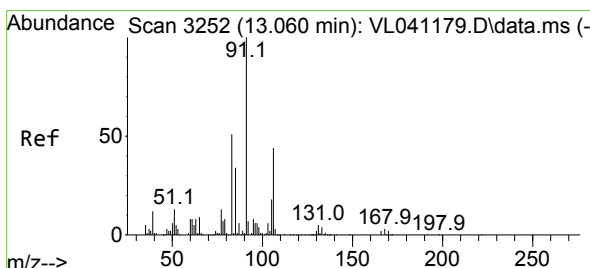
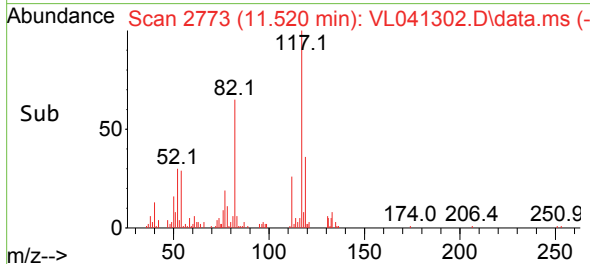
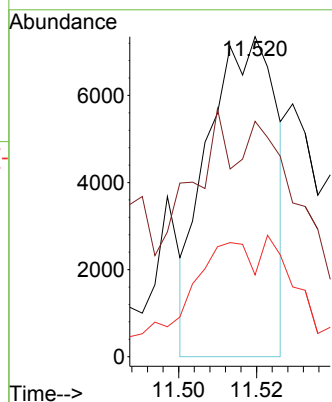
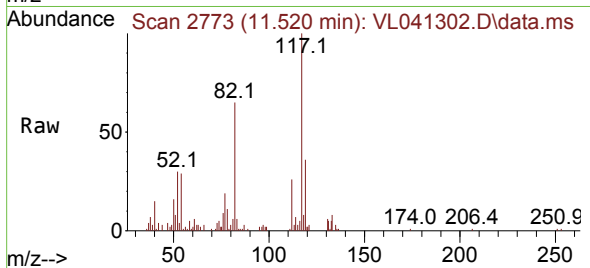




#57
Chlorobenzene
Concen: 0.051 ppbv
RT: 11.520 min Scan# 211
Delta R.T. -0.022 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

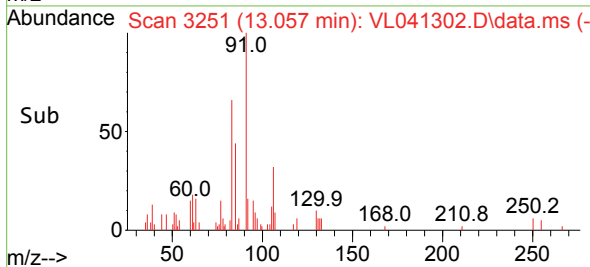
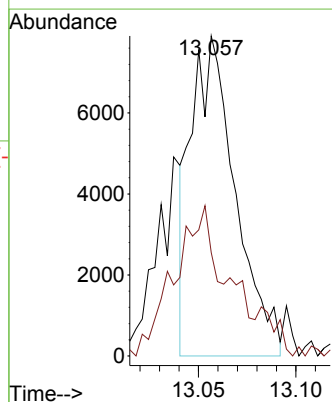
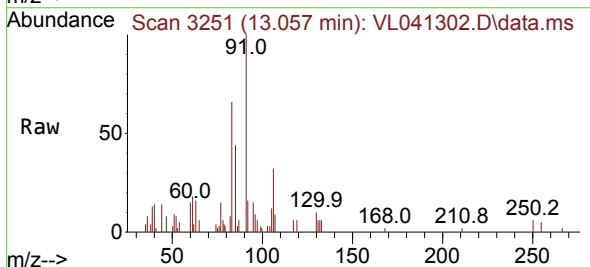
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

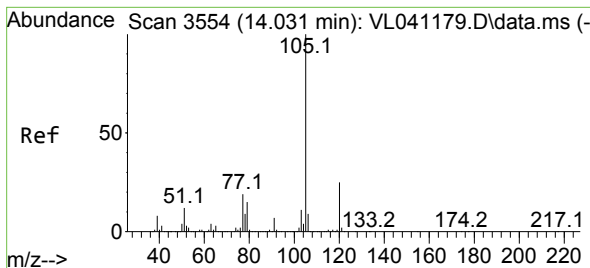
Tgt Ion:112 Resp: 8991
Ion Ratio Lower Upper
112 100
77 27.9 54.9 82.3#
114 19.0 28.7 35.1#



#60
o-Xylene
Concen: 0.048 ppbv
RT: 13.057 min Scan# 3251
Delta R.T. -0.013 min
Lab File: VL041302.D
Acq: 4 Jun 2024 11:49

Tgt Ion: 91 Resp: 12499
Ion Ratio Lower Upper
91 100
106 62.3 22.4 67.3





#62

Isopropylbenzene

Concen: 0.059 ppbv

RT: 14.024 min Scan# 31

Delta R.T. -0.019 min

Lab File: VL041302.D

Acq: 4 Jun 2024 11:49

Instrument :

MSVOA_L

ClientSampleId :

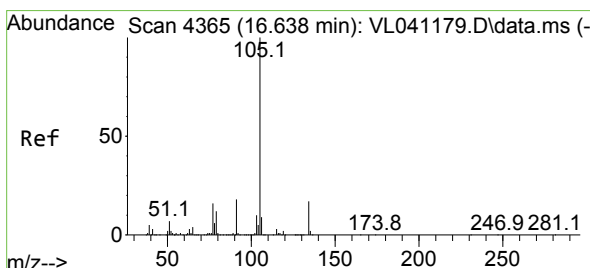
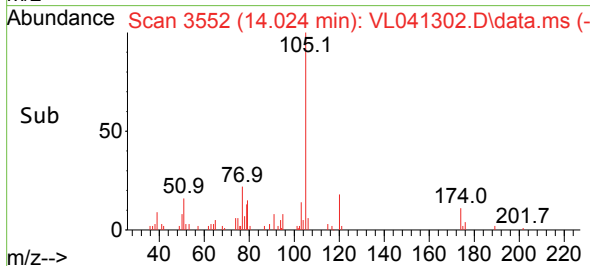
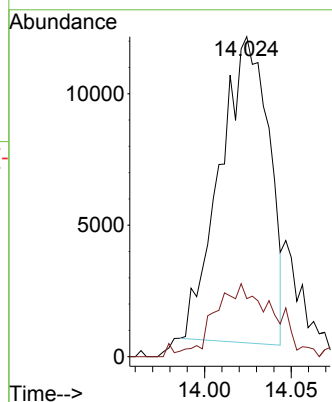
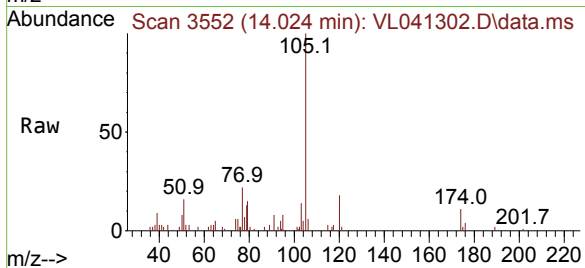
VSTDIC0.1

Tgt Ion:105 Resp: 22839

Ion Ratio Lower Upper

105 100

120 29.5 20.2 30.2



#67

sec-Butylbenzene

Concen: 0.030 ppbv

RT: 16.626 min Scan# 4361

Delta R.T. -0.022 min

Lab File: VL041302.D

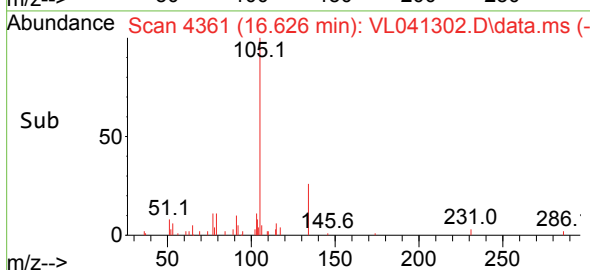
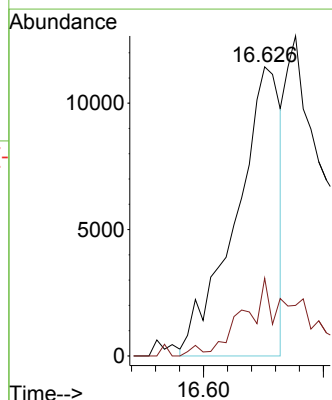
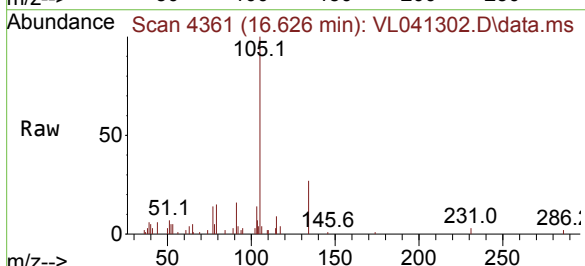
Acq: 4 Jun 2024 11:49

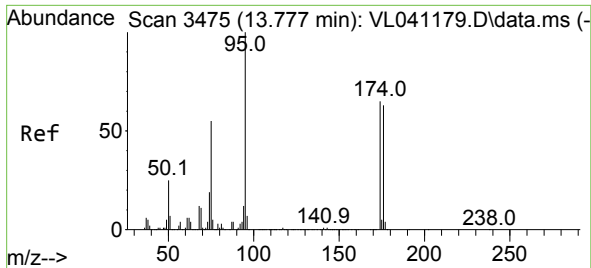
Tgt Ion:105 Resp: 14762

Ion Ratio Lower Upper

105 100

134 41.6 13.8 20.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.252 ppbv
 RT: 13.774 min Scan# 34
 Delta R.T. -0.013 min
 Lab File: VL041302.D
 Acq: 4 Jun 2024 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion: 95 Resp: 1848284

Ion	Ratio	Lower	Upper
95	100		
174	66.4	53.6	80.4
175	4.9	4.2	6.4

