

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111521\
 Data File : VW023477.D
 Acq On : 15 Nov 2021 13:07
 Operator : SY/MD
 Sample : M4616-12
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG1Y5

Quant Time: Nov 16 00:31:44 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 16 00:29:25 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	125938	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	126370	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	55947	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	47702	6.046	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	121.000%
7) Chloroethane-d5	1.568	69	36729	5.712	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	114.200%
11) 1,1-Dichloroethene-d2	2.111	63	78292	5.301	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	106.000%
20) 2-Butanone-d5	3.896	46	76990	56.643	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	113.280%
24) Chloroform-d	4.349	84	81108	4.824	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.400%
26) 1,2-Dichloroethane-d4	5.034	65	39252	5.191	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.800%
32) Benzene-d6	5.053	84	161595	4.984	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.600%
36) 1,2-Dichloropropane-d6	6.072	67	49195	5.154	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.000%
41) Toluene-d8	7.317	98	143435	4.721	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.400%
43) trans-1,3-Dichloroprop...	7.625	79	17725	4.897	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.000%
46) 2-Hexanone-d5	8.092	63	53745	40.361	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	80.720%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	28902	4.211	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	84.200%
66) 1,2-Dichlorobenzene-d4	11.625	152	52640	5.651	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.130	85	5926	0.483	ug/L	97
9) Trichlorofluoromethane	1.754	101	3079	0.197	ug/L	93
10) 1,1,2-Trichloro-1,2,2-...	2.121	101	4387	0.556	ug/L	97
12) 1,1-Dichloroethene	2.121	96	27845	3.708	ug/L	96
17) Methyl tert-butyl Ether	2.773	73	3402	0.206	ug/L	95
19) 1,1-Dichloroethane	3.191	63	30740	1.972	ug/L	99
22) cis-1,2-Dichloroethene	3.912	96	28056	3.158	ug/L #	88
25) Chloroform	4.378	83	13223	0.796	ug/L	96
27) 1,2-Dichloroethane	5.156	62	1864	0.211	ug/L #	72
29) 1,1,1-Trichloroethane	4.616	97	6241	0.407	ug/L	93
34) Trichloroethene	5.912	95	1013008	107.850	ug/L	98
35) Methylcyclohexane	6.069	83	12282	0.828	ug/L #	17
37) 1,2-Dichloropropane	6.188	63	1838	0.223	ug/L #	83
39) cis-1,3-Dichloropropene	6.992	75	1334	0.112	ug/L #	49
42) Toluene	7.400	91	2701	0.071	ug/L	92
45) 1,1,2-Trichloroethane	7.854	97	543	0.092	ug/L	91
47) Tetrachloroethene	7.976	164	694843	85.358	ug/L	99
48) 2-Hexanone	8.149	43	7080	2.642	ug/L #	80
49) Dibromochloromethane	7.976	129	622827	82.966	ug/L #	10

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Response via : Initial Calibration

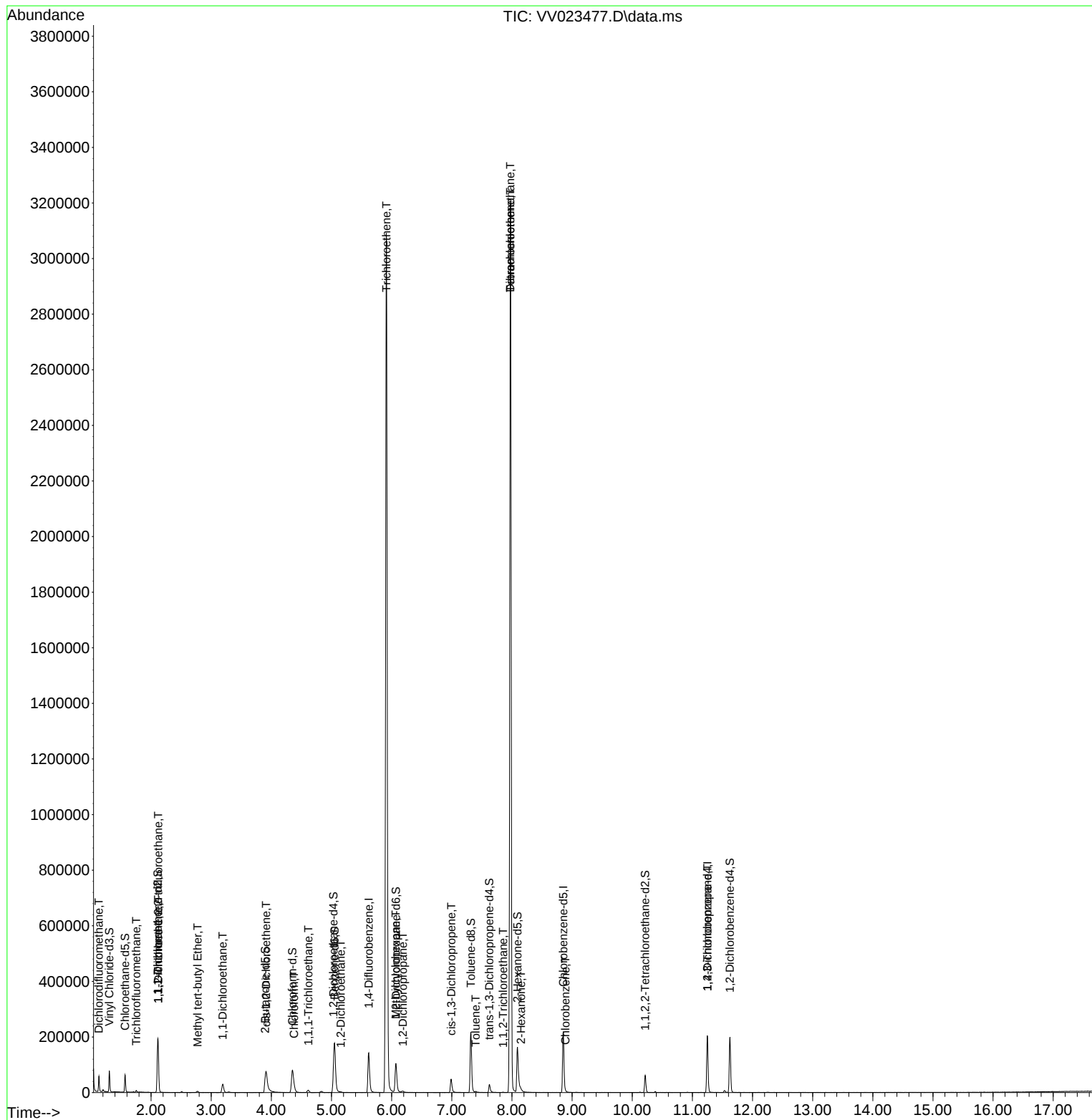
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	8.889	112	2588	0.103	ug/L	91
61) 1,2,3-Trichloropropane	11.249	75	5906	1.589	ug/L #	66

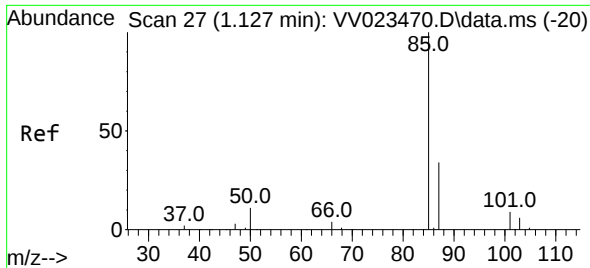
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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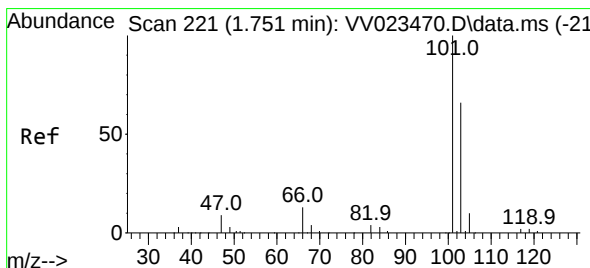
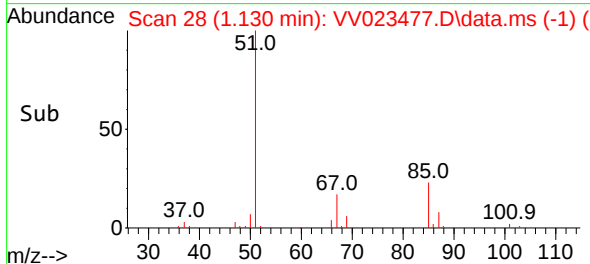
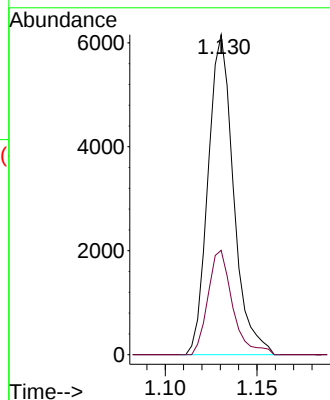
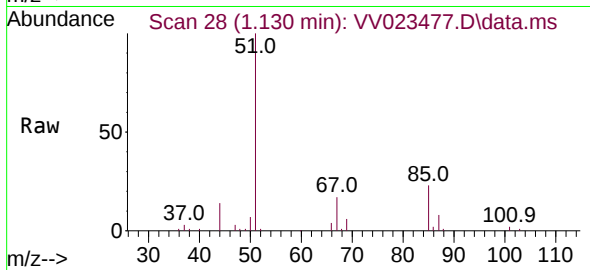




#2
 Dichlorodifluoromethane
 Concen: 0.483 ug/L
 RT: 1.130 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VV023477.D
 Acq: 15 Nov 2021 13:07

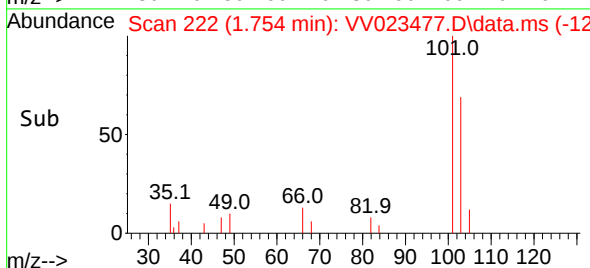
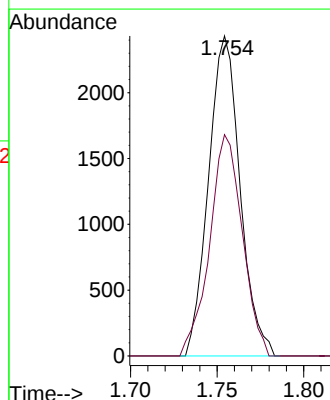
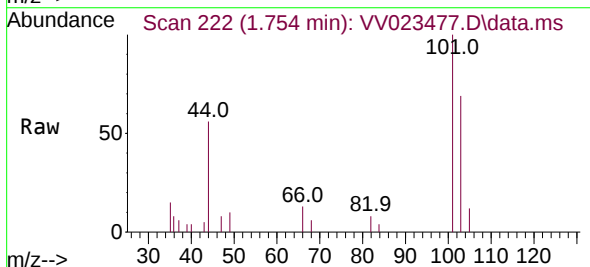
Instrument :
 MSVOA_V
 ClientSampleId :
 BG1Y5

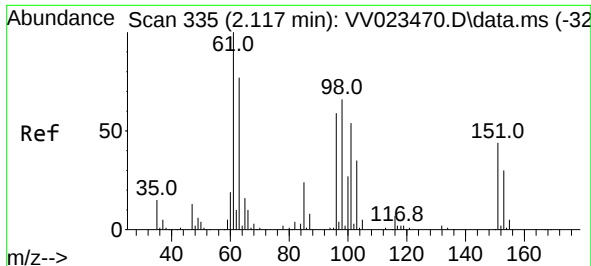
Tgt Ion: 85 Resp: 5926
 Ion Ratio Lower Upper
 85 100
 87 31.5 26.6 39.8



#9
 Trichlorofluoromethane
 Concen: 0.197 ug/L
 RT: 1.754 min Scan# 222
 Delta R.T. 0.003 min
 Lab File: VV023477.D
 Acq: 15 Nov 2021 13:07

Tgt Ion: 101 Resp: 3079
 Ion Ratio Lower Upper
 101 100
 103 71.6 52.6 79.0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.556 ug/L

RT: 2.121 min Scan# 336

Delta R.T. 0.003 min

Lab File: VV023477.D

Acq: 15 Nov 2021 13:07

Instrument :

MSVOA_V

ClientSampleId :

BG1Y5

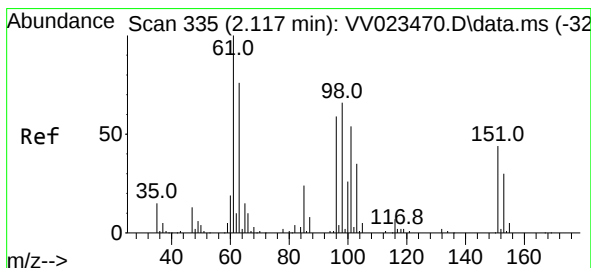
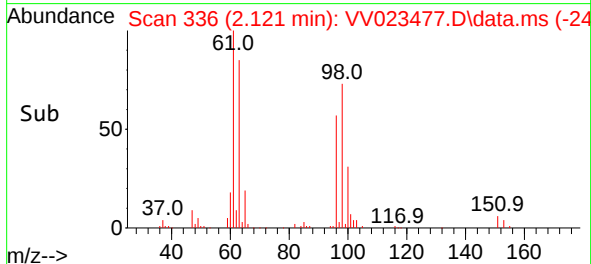
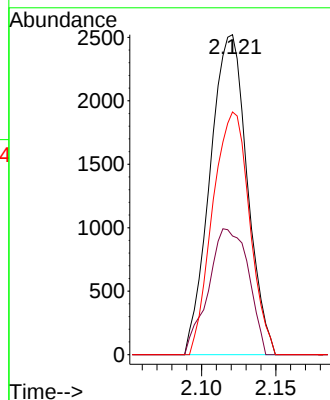
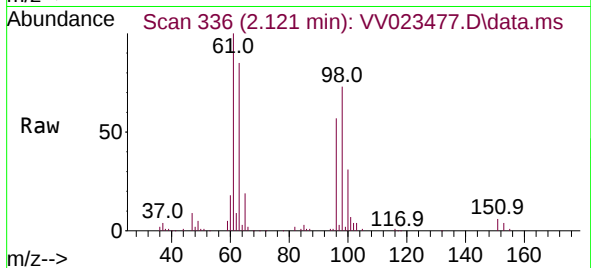
Tgt Ion:101 Resp: 4387

Ion Ratio Lower Upper

101 100

85 42.3 35.3 52.9

151 75.3 62.2 93.2



#12

1,1-Dichloroethene

Concen: 3.708 ug/L

RT: 2.121 min Scan# 336

Delta R.T. 0.003 min

Lab File: VV023477.D

Acq: 15 Nov 2021 13:07

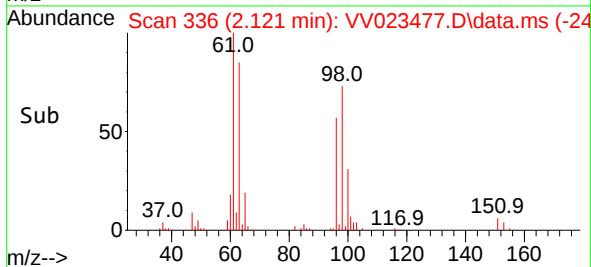
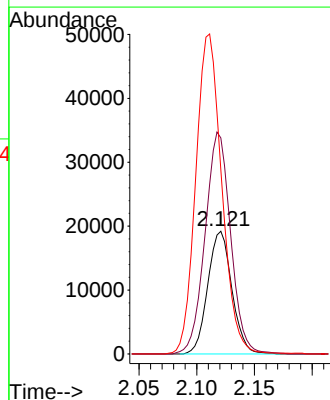
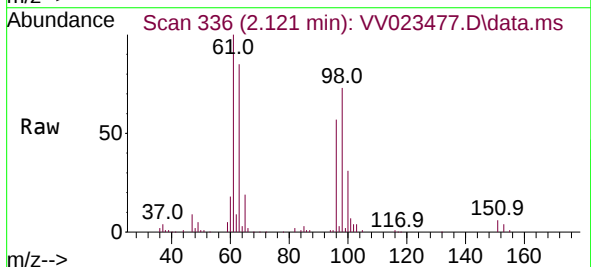
Tgt Ion: 96 Resp: 27845

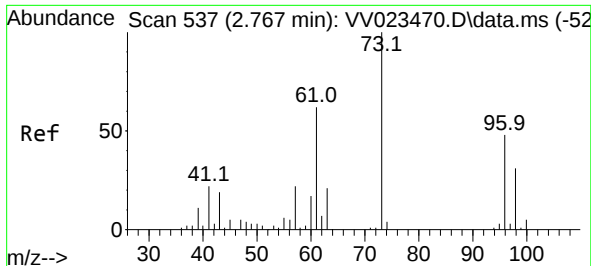
Ion Ratio Lower Upper

96 100

61 176.1 121.5 225.7

63 150.2 99.6 185.0

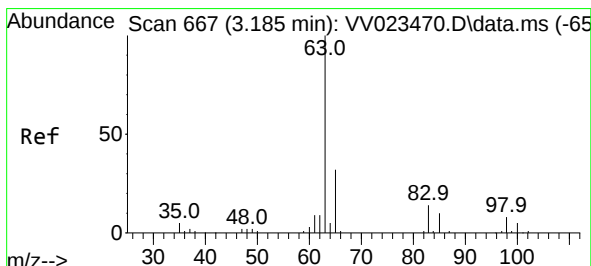
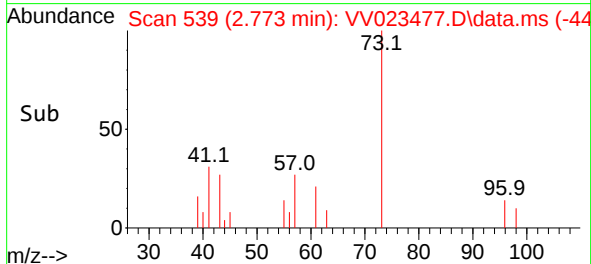
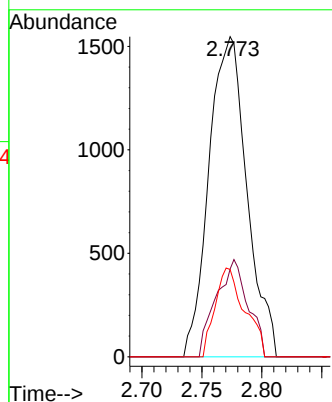
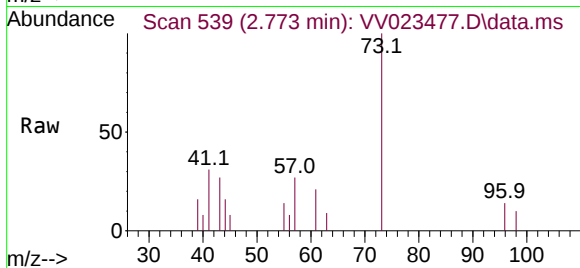




#17
Methyl tert-butyl Ether
Concen: 0.206 ug/L
RT: 2.773 min Scan# 51
Delta R.T. 0.007 min
Lab File: VV023477.D
Acq: 15 Nov 2021 13:07

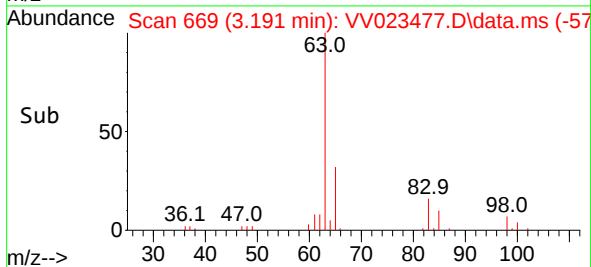
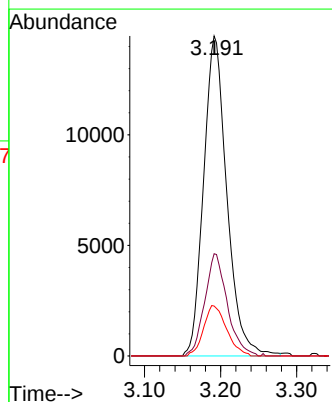
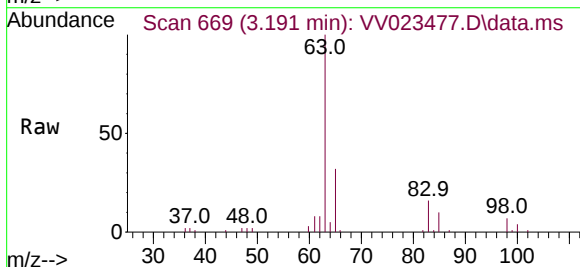
Instrument :
MSVOA_V
ClientSampleId :
BG1Y5

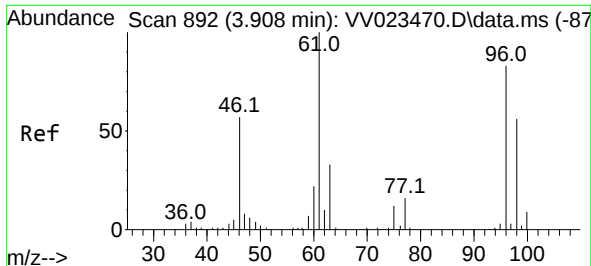
Tgt Ion: 73 Resp: 3402
Ion Ratio Lower Upper
73 100
43 25.5 17.4 26.0
57 21.6 16.5 24.7



#19
1,1-Dichloroethane
Concen: 1.972 ug/L
RT: 3.191 min Scan# 669
Delta R.T. 0.007 min
Lab File: VV023477.D
Acq: 15 Nov 2021 13:07

Tgt Ion: 63 Resp: 30740
Ion Ratio Lower Upper
63 100
65 32.0 22.6 42.0
83 15.6 11.1 20.7

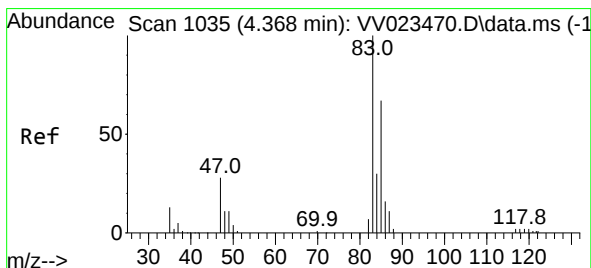
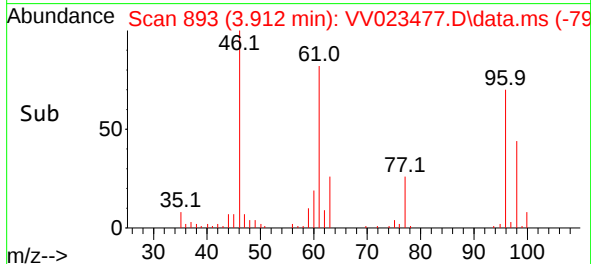
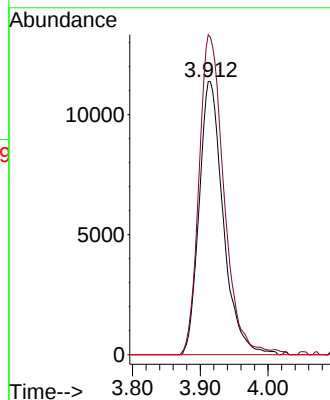
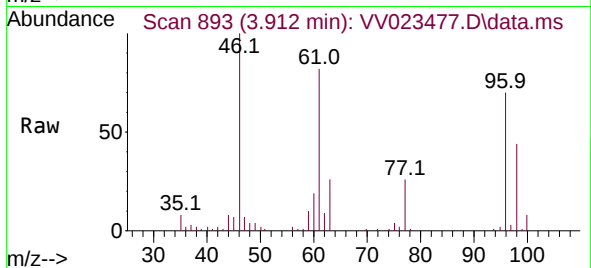




#22
 cis-1,2-Dichloroethene
 Concen: 3.158 ug/L
 RT: 3.912 min Scan# 89
 Delta R.T. 0.003 min
 Lab File: VV023477.D
 Acq: 15 Nov 2021 13:07

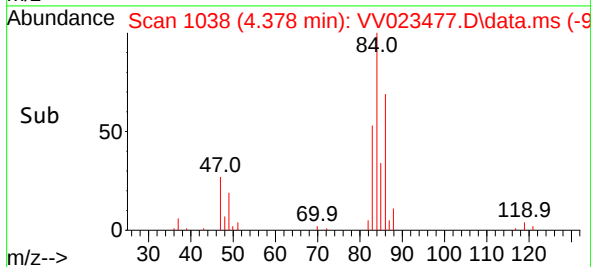
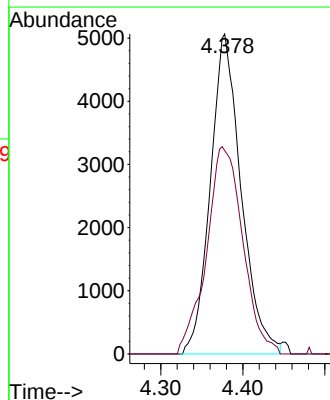
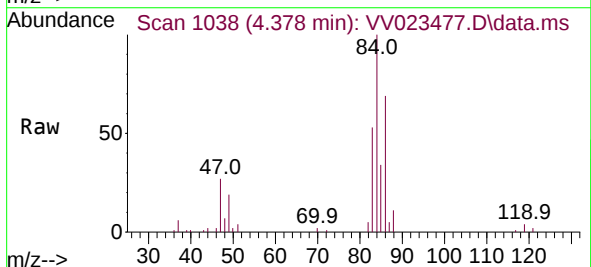
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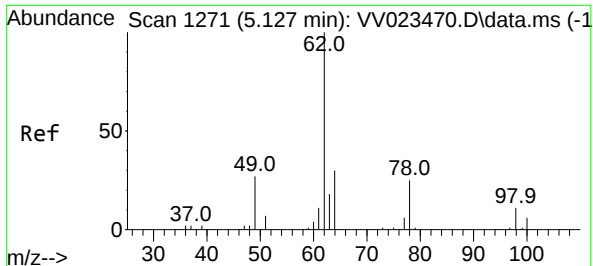
Tgt Ion: 96 Resp: 28056
 Ion Ratio Lower Upper
 96 100
 61 117.1 92.3 171.3
 68 0.0 0.4 0.8#



#25
 Chloroform
 Concen: 0.796 ug/L
 RT: 4.378 min Scan# 1038
 Delta R.T. 0.010 min
 Lab File: VV023477.D
 Acq: 15 Nov 2021 13:07

Tgt Ion: 83 Resp: 13223
 Ion Ratio Lower Upper
 83 100
 85 63.6 46.8 86.8





#27

1,2-Dichloroethane

Concen: 0.211 ug/L

RT: 5.156 min Scan# 1112

Delta R.T. 0.029 min

Lab File: VV023477.D

Acq: 15 Nov 2021 13:07

Instrument :

MSVOA_V

ClientSampleId :

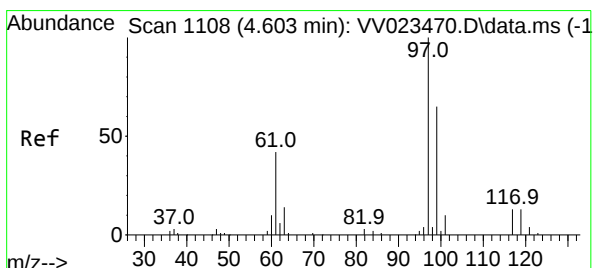
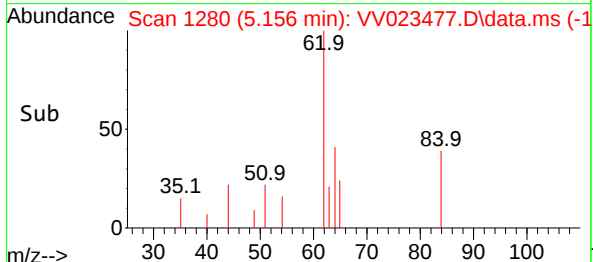
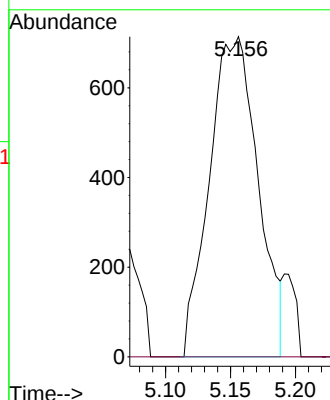
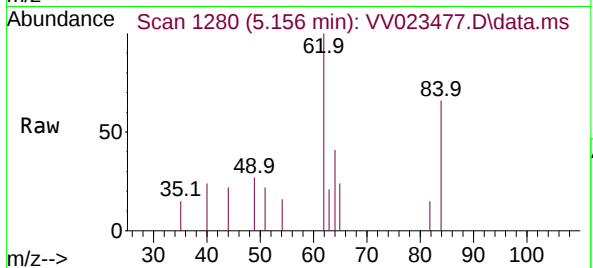
BG1Y5

Tgt Ion: 62 Resp: 1864

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#29

1,1,1-Trichloroethane

Concen: 0.407 ug/L

RT: 4.616 min Scan# 1112

Delta R.T. 0.013 min

Lab File: VV023477.D

Acq: 15 Nov 2021 13:07

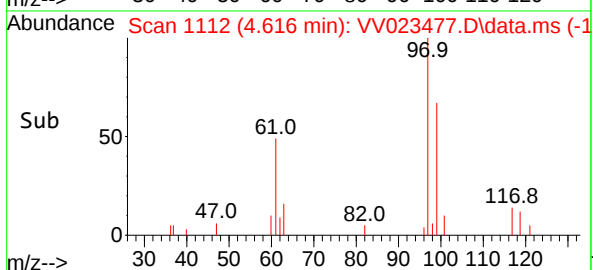
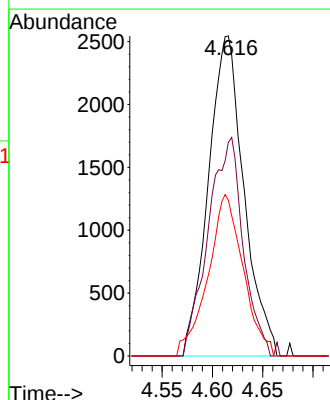
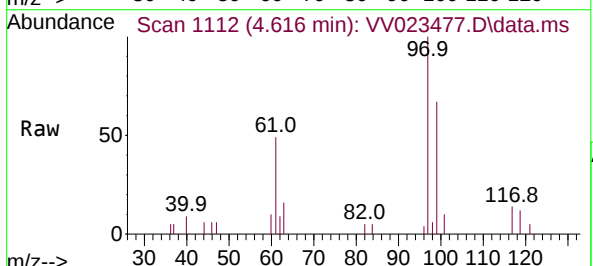
Tgt Ion: 97 Resp: 6241

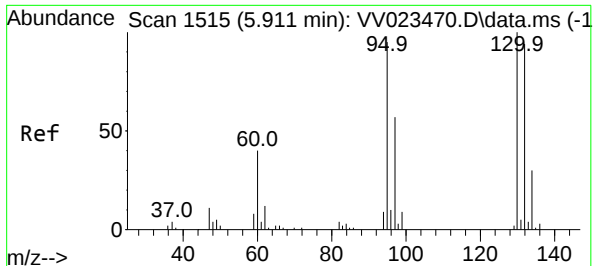
Ion Ratio Lower Upper

97 100

99 67.3 51.0 76.4

61 50.0 34.1 51.1





#34

Trichloroethene

Concen: 107.850 ug/L

RT: 5.912 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV023477.D

Acq: 15 Nov 2021 13:07

Instrument :

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Tgt Ion: 95 Resp: 1013008

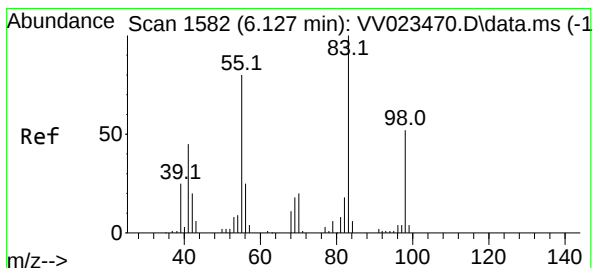
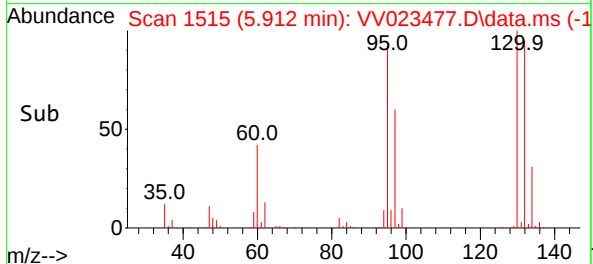
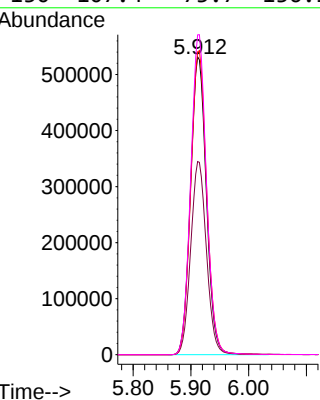
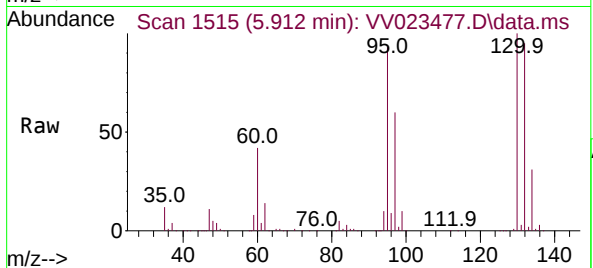
Ion Ratio Lower Upper

95 100

97 64.8 45.0 83.6

132 101.7 69.7 129.4

130 107.4 73.7 136.9



#35

Methylcyclohexane

Concen: 0.828 ug/L

RT: 6.069 min Scan# 1564

Delta R.T. -0.058 min

Lab File: VV023477.D

Acq: 15 Nov 2021 13:07

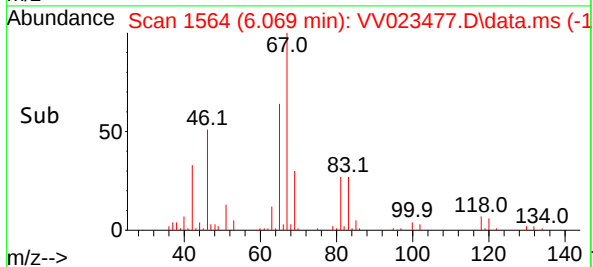
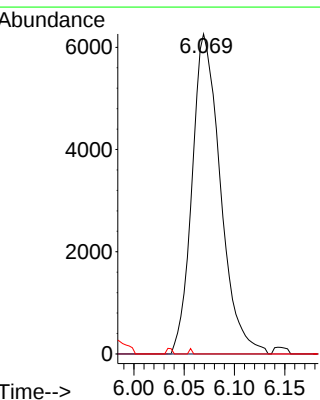
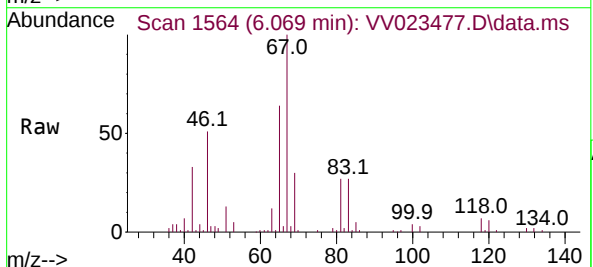
Tgt Ion: 83 Resp: 12282

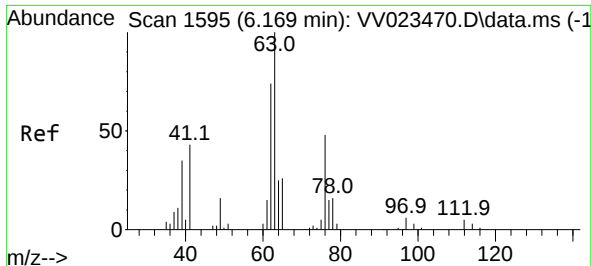
Ion Ratio Lower Upper

83 100

55 0.0 62.8 94.2#

98 0.0 37.9 56.9#





#37

1,2-Dichloropropane

Concen: 0.223 ug/L

RT: 6.188 min Scan# 1

Delta R.T. 0.019 min

Lab File: VV023477.D

Acq: 15 Nov 2021 13:07

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ClientSampleId :

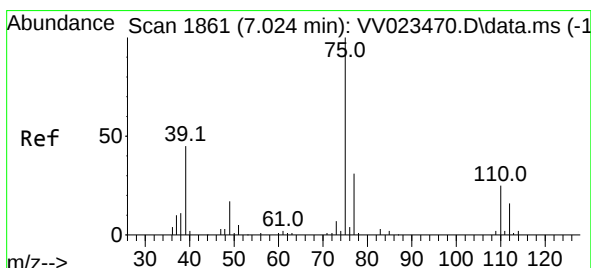
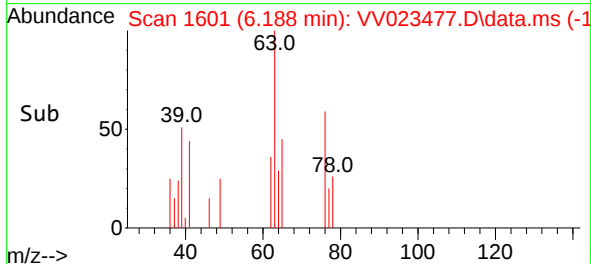
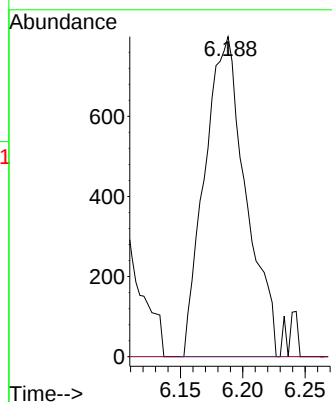
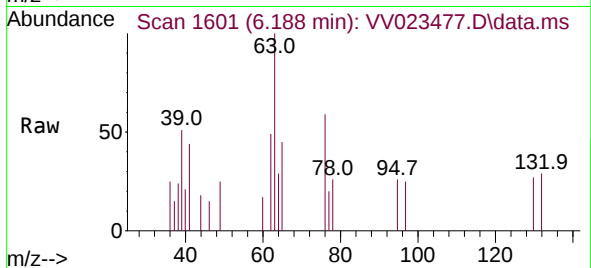
BG1Y5

Tgt Ion: 63 Resp: 1838

Ion Ratio Lower Upper

63 100

112 0.0 4.6 6.8#



#39

cis-1,3-Dichloropropene

Concen: 0.112 ug/L

RT: 6.992 min Scan# 1851

Delta R.T. -0.032 min

Lab File: VV023477.D

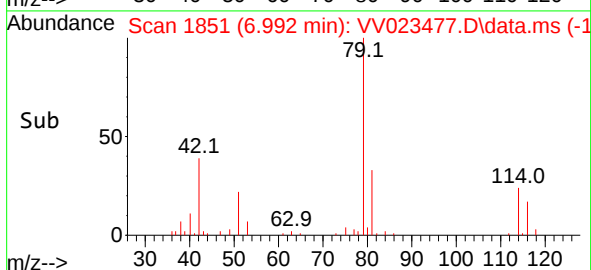
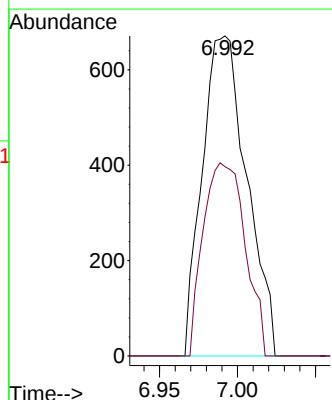
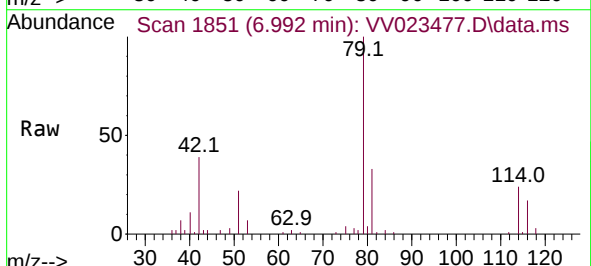
Acq: 15 Nov 2021 13:07

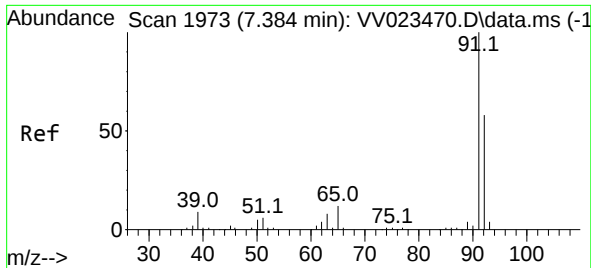
Tgt Ion: 75 Resp: 1334

Ion Ratio Lower Upper

75 100

77 59.2 21.6 40.2#





#42

Toluene

Concen: 0.071 ug/L

RT: 7.400 min Scan# 1973

Delta R.T. 0.016 min

Lab File: VV023477.D

Acq: 15 Nov 2021 13:07

Instrument :

MSVOA_V

ClientSampleId :

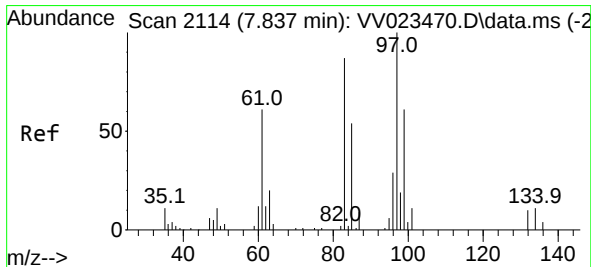
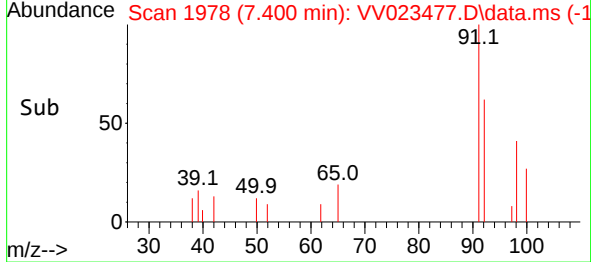
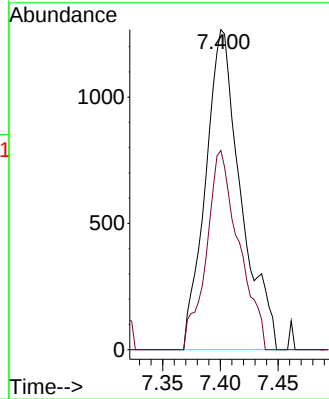
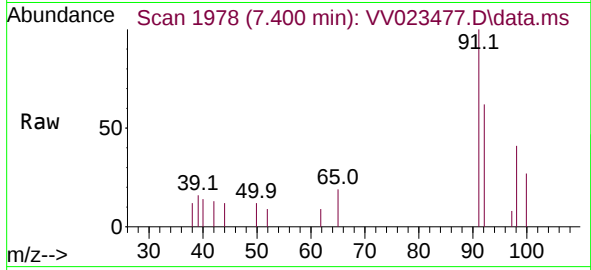
BG1Y5

Tgt Ion: 91 Resp: 2701

Ion Ratio Lower Upper

91 100

92 62.3 39.3 72.9



#45

1,1,2-Trichloroethane

Concen: 0.092 ug/L

RT: 7.854 min Scan# 2119

Delta R.T. 0.016 min

Lab File: VV023477.D

Acq: 15 Nov 2021 13:07

Tgt Ion: 97 Resp: 543

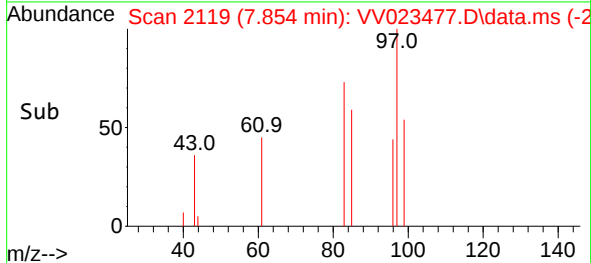
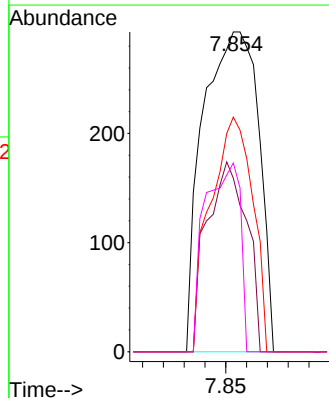
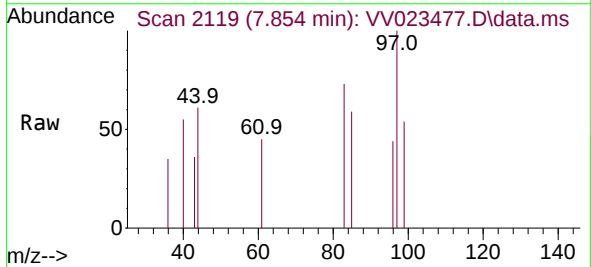
Ion Ratio Lower Upper

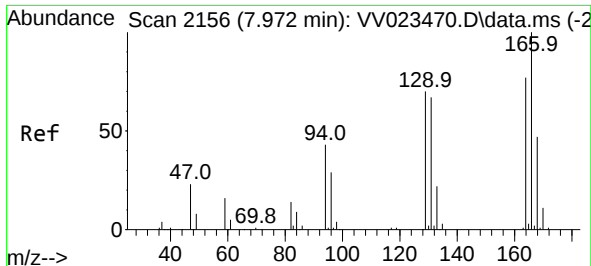
97 100

99 54.3 43.6 81.0

83 73.4 58.4 108.4

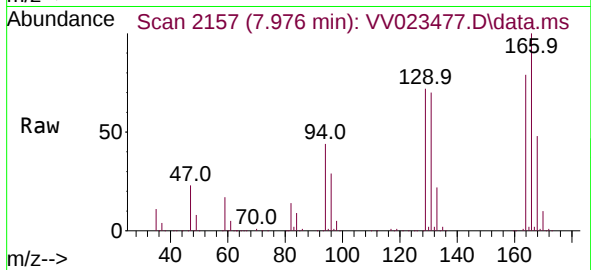
85 59.0 39.8 74.0



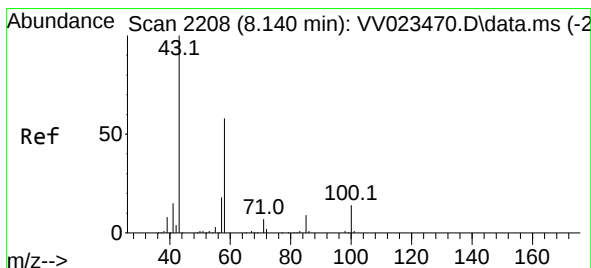
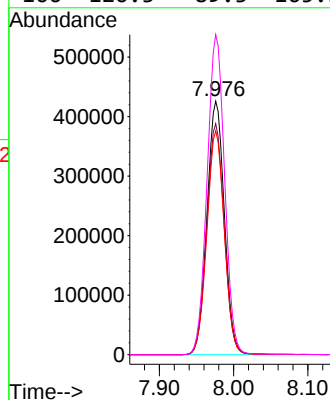
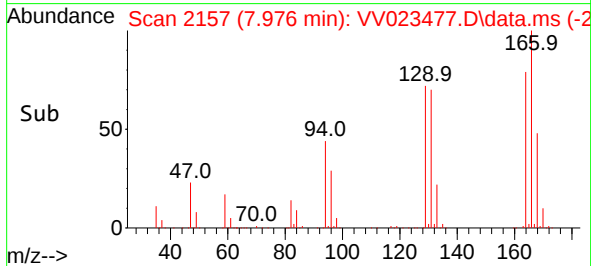


#47
Tetrachloroethene
Concen: 85.358 ug/L
RT: 7.976 min Scan# 2156
Delta R.T. 0.003 min
Lab File: VV023477.D
Acq: 15 Nov 2021 13:07

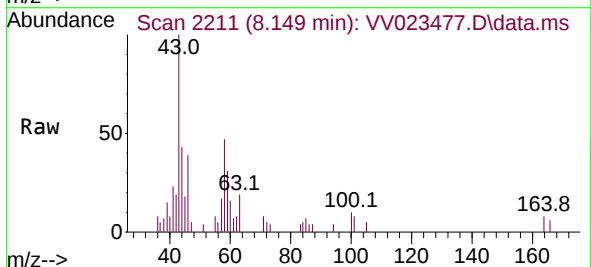
Instrument :
MSVOA_V
ClientSampleId :
BG1Y5



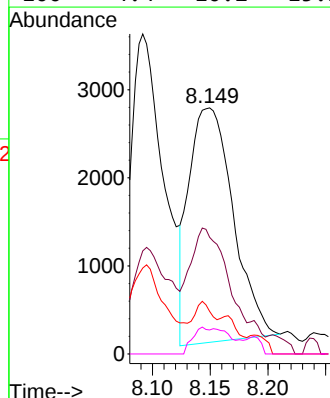
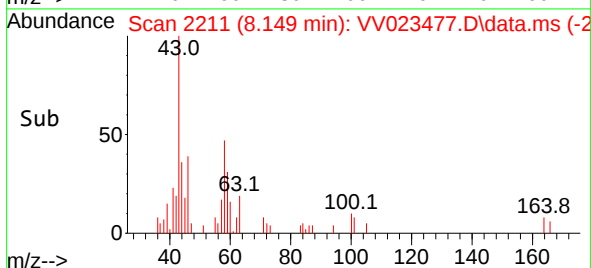
Tgt Ion:164 Resp: 694843
Ion Ratio Lower Upper
164 100
129 91.2 64.0 119.0
131 88.3 63.4 117.8
166 126.3 89.3 165.9

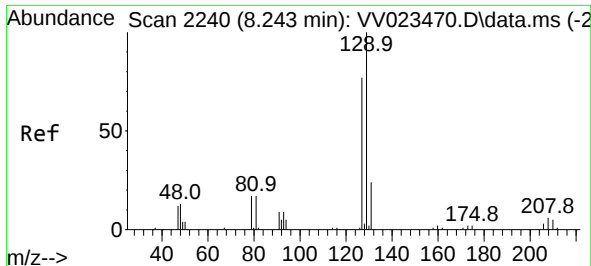


#48
2-Hexanone
Concen: 2.642 ug/L
RT: 8.149 min Scan# 2211
Delta R.T. 0.010 min
Lab File: VV023477.D
Acq: 15 Nov 2021 13:07



Tgt Ion: 43 Resp: 7080
Ion Ratio Lower Upper
43 100
58 43.2 43.7 65.5#
57 3.6 14.1 21.1#
100 4.4 10.2 15.2#





#49

Dibromochloromethane

Concen: 82.966 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. -0.267 min

Lab File: VV023477.D

Acq: 15 Nov 2021 13:07

Instrument :

MSVOA_V

ClientSampleId :

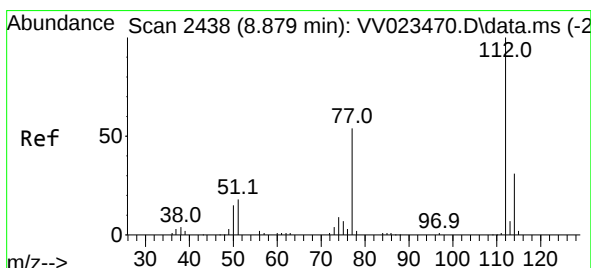
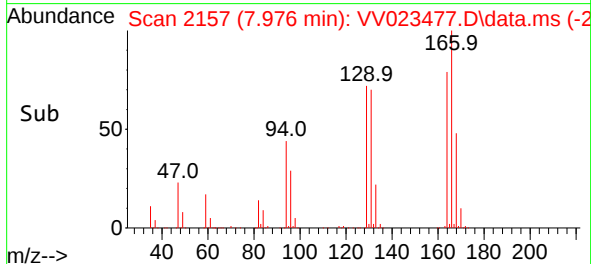
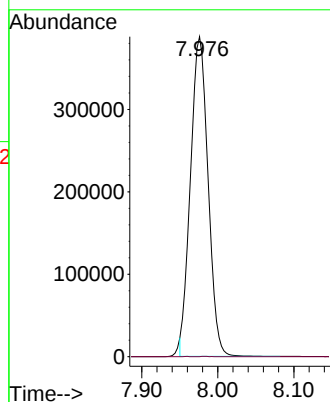
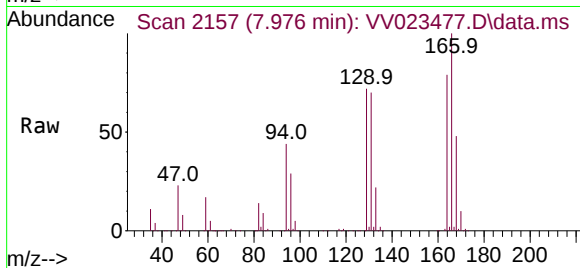
BG1Y5

Tgt Ion:129 Resp: 622827

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#



#51

Chlorobenzene

Concen: 0.103 ug/L

RT: 8.889 min Scan# 2441

Delta R.T. 0.010 min

Lab File: VV023477.D

Acq: 15 Nov 2021 13:07

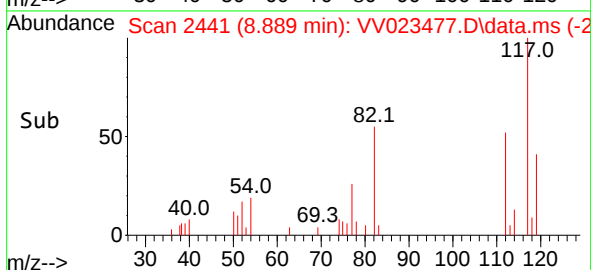
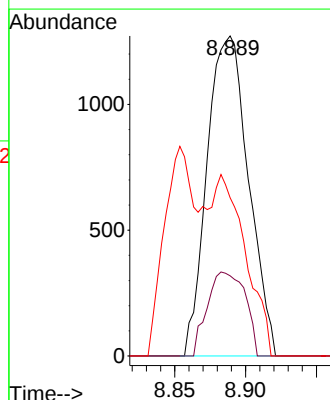
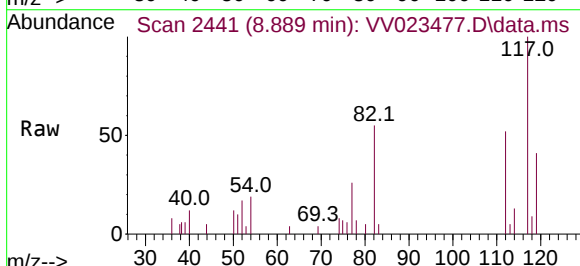
Tgt Ion:112 Resp: 2588

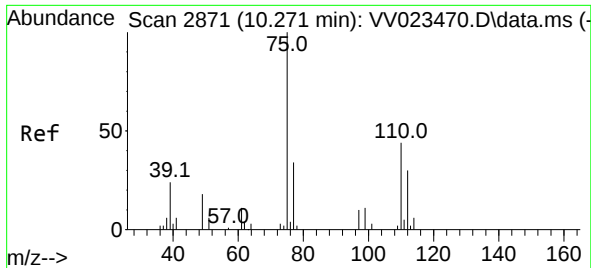
Ion Ratio Lower Upper

112 100

114 25.1 22.0 40.8

77 49.4 44.4 66.6





#61

1,2,3-Trichloropropane

Concen: 1.589 ug/L

RT: 11.249 min Scan# 31

Delta R.T. 0.978 min

Lab File: VV023477.D

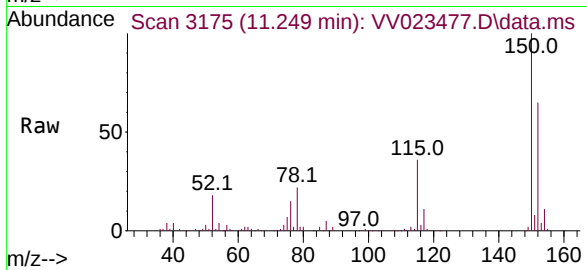
Acq: 15 Nov 2021 13:07

Instrument :

MSVOA_V

ClientSampleId :

BG1Y5



Tgt Ion:	75	Resp:	5906
Ion	Ratio	Lower	Upper
75	100		
77	34.9	26.6	39.8
110	2.7	31.8	47.6#

