

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW022122\
 Data File : VW024773.D
 Acq On : 21 Feb 2022 14:02
 Operator : SY/MD
 Sample : N1623-03
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GBD27

Quant Time: Feb 22 03:28:48 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR021722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Feb 22 03:27:30 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	175743	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	160303	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	73797	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	52708	3.536	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.800%
7) Chloroethane-d5	1.568	69	46049	3.766	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.400%
11) 1,1-Dichloroethene-d2	2.111	63	85450	3.128	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.600%
20) 2-Butanone-d5	3.889	46	102824	48.293	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.580%
24) Chloroform-d	4.349	84	102976	4.427	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.600%
26) 1,2-Dichloroethane-d4	5.034	65	45238	4.363	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.200%
32) Benzene-d6	5.050	84	198433	4.291	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.800%
36) 1,2-Dichloropropane-d6	6.069	67	61600	4.526	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.600%
41) Toluene-d8	7.313	98	177165	4.216	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.400%
43) trans-1,3-Dichloroprop...	7.625	79	20312	4.480	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.600%
46) 2-Hexanone-d5	8.088	63	84418	47.320	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.640%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	36413	4.439	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.800%
66) 1,2-Dichlorobenzene-d4	11.622	152	56093	4.393	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.130	85	63414	3.700	ug/L	99
5) Vinyl chloride	1.314	62	70438	3.748	ug/L	99
8) Chloroethane	1.587	64	143621	12.408	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.121	101	144021	10.054	ug/L	100
12) 1,1-Dichloroethene	2.121	96	27632	2.019	ug/L #	72
13) Acetone	2.179	43	233538	155.534	ug/L	97
15) Methyl Acetate	2.436	43	38714	9.848	ug/L	98
18) trans-1,2-Dichloroethene	2.764	96	36397	2.723	ug/L	97
19) 1,1-Dichloroethane	3.191	63	49730	2.032	ug/L	99
22) cis-1,2-Dichloroethene	3.912	96	56119	3.972	ug/L	95
23) Bromochloromethane	4.252	128	26878	4.922	ug/L	94
25) Chloroform	4.375	83	191541	7.491	ug/L	99
27) 1,2-Dichloroethane	5.137	62	26208	1.920	ug/L	99
29) 1,1,1-Trichloroethane	4.609	97	42575	1.979	ug/L	99
31) Carbon tetrachloride	4.828	117	54167	2.995	ug/L	99
34) Trichloroethene	5.915	95	31158	2.167	ug/L	98
39) cis-1,3-Dichloropropene	7.027	75	84042	4.725	ug/L	100
40) 4-Methyl-2-pentanone	7.223	43	340250	55.782	ug/L	99
44) trans-1,3-Dichloropropene	7.651	75	31909	2.245	ug/L	95

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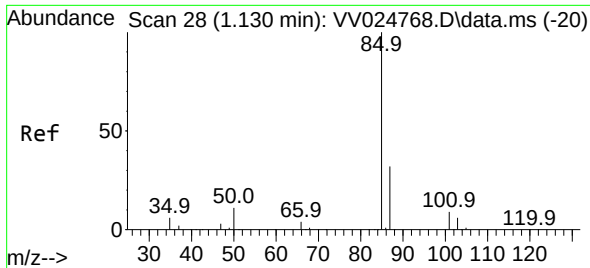
Instrument :
 MSVOA_V
 ClientSampleId :
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) 1,1,2-Trichloroethane	7.841	97	16097	1.930	ug/L	98
47) Tetrachloroethene	7.976	164	29415	3.004	ug/L	97
50) 1,2-Dibromoethane	8.352	107	36614	4.810	ug/L	99
51) Chlorobenzene	8.879	112	206144	5.702	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.239	83	13138	1.489	ug/L	100
59) Bromoform	9.731	173	10048	2.690	ug/L #	95
63) 1,2,4-Trimethylbenzene	10.915	105	224868	4.452	ug/L	100
64) 1,3-Dichlorobenzene	11.178	146	74732	2.903	ug/L	98
65) 1,4-Dichlorobenzene	11.271	146	50147	1.950	ug/L	98
70) 1,2,4-trichlorobenzene	13.258	180	69514	4.833	ug/L	100
72) 1,2,3-Trichlorobenzene	13.741	180	34745	2.886	ug/L	99

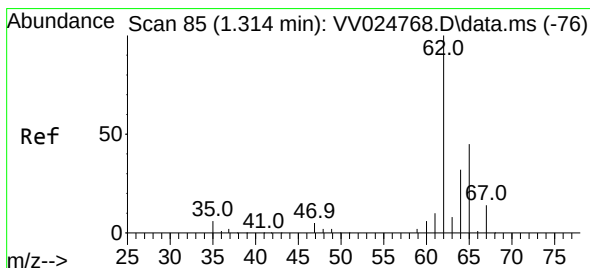
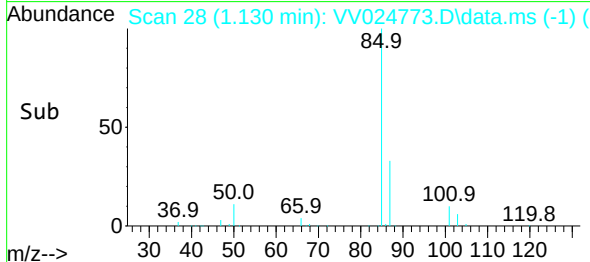
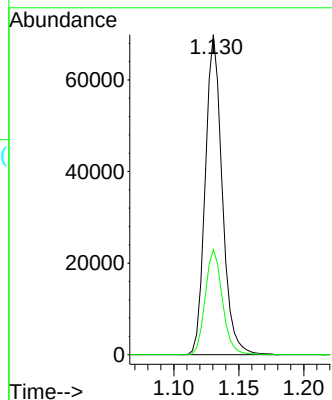
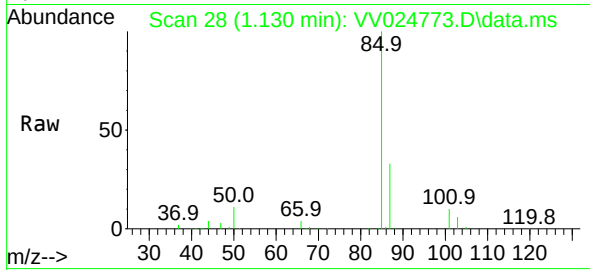
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
 Dichlorodifluoromethane
 Concen: 3.700 ug/L
 RT: 1.130 min Scan# 28
 Delta R.T. 0.000 min
 Lab File: VV024773.D
 Acq: 21 Feb 2022 14:02

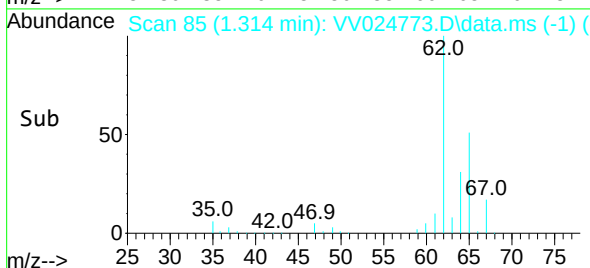
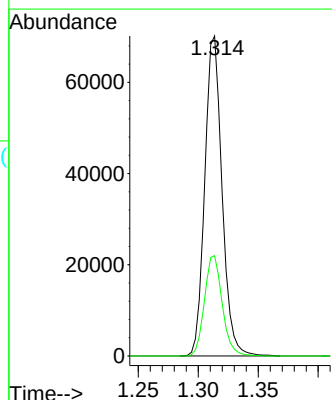
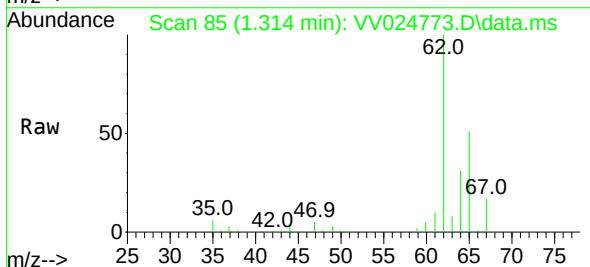
Instrument :
 MSVOA_V
 ClientSampleId :
 GBD27

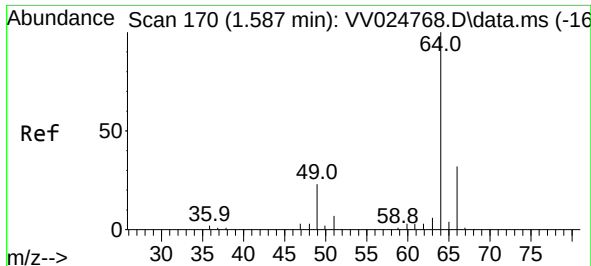
Tgt Ion: 85 Resp: 63414
 Ion Ratio Lower Upper
 85 100
 87 33.2 25.9 38.9



#5
 Vinyl chloride
 Concen: 3.748 ug/L
 RT: 1.314 min Scan# 85
 Delta R.T. 0.000 min
 Lab File: VV024773.D
 Acq: 21 Feb 2022 14:02

Tgt Ion: 62 Resp: 70438
 Ion Ratio Lower Upper
 62 100
 64 31.4 22.2 41.2

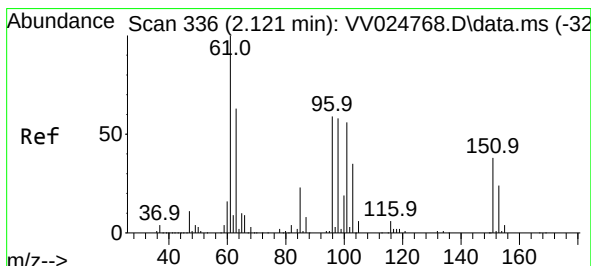
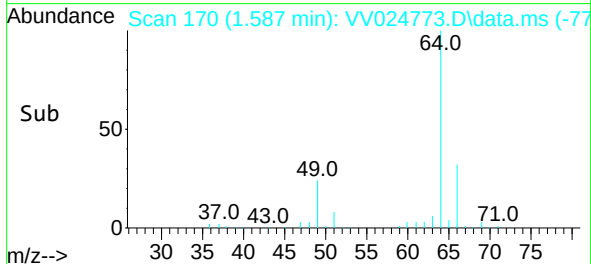
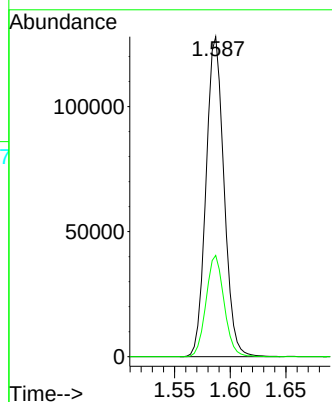
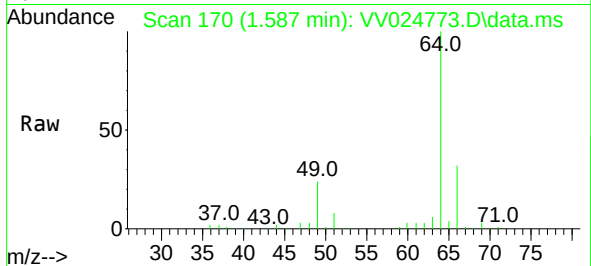




#8
Chloroethane
Concen: 12.408 ug/L
RT: 1.587 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV024773.D
Acq: 21 Feb 2022 14:02

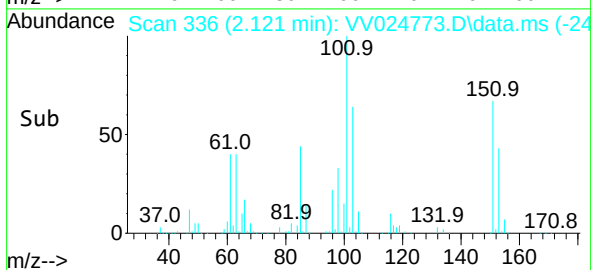
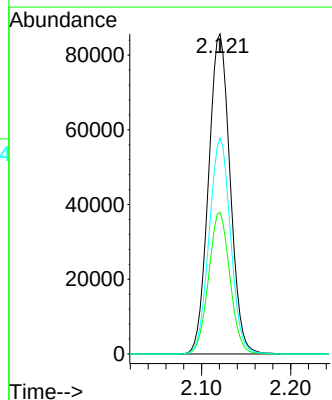
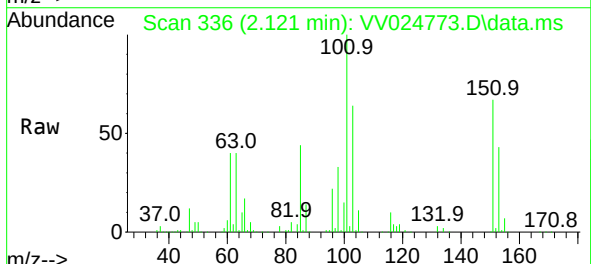
Instrument :
MSVOA_V
ClientSampleId :
GBD27

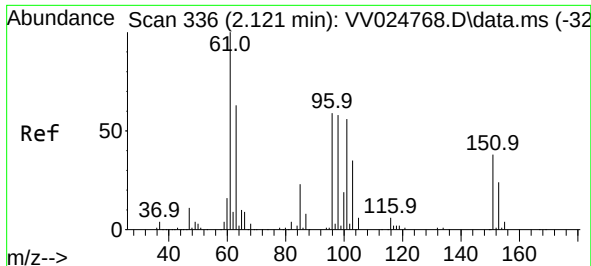
Tgt Ion: 64 Resp: 143621
Ion Ratio Lower Upper
64 100
66 31.6 22.5 41.9



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 10.054 ug/L
RT: 2.121 min Scan# 336
Delta R.T. 0.000 min
Lab File: VV024773.D
Acq: 21 Feb 2022 14:02

Tgt Ion:101 Resp: 144021
Ion Ratio Lower Upper
101 100
85 43.6 34.7 52.1
151 67.1 53.5 80.3

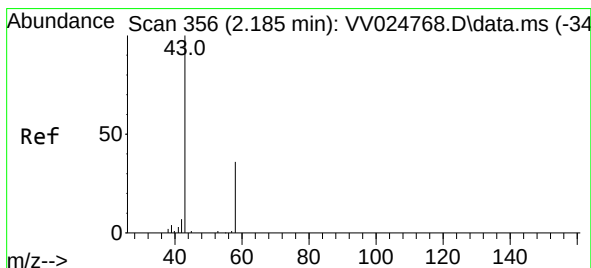
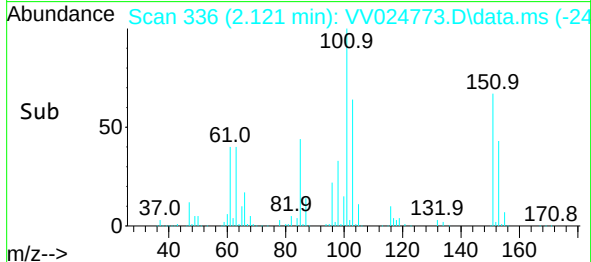
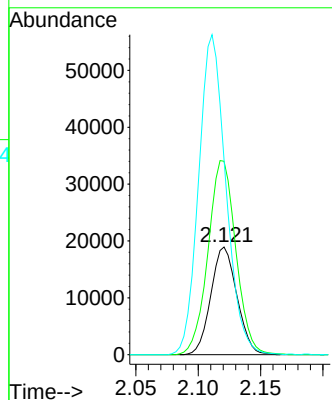
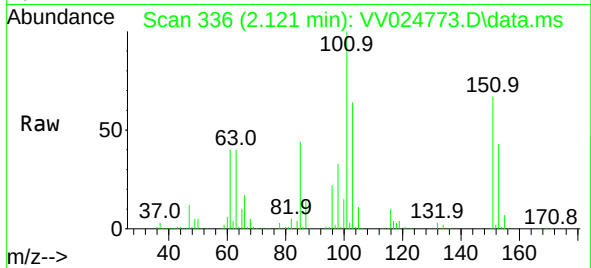




#12
 1,1-Dichloroethene
 Concen: 2.019 ug/L
 RT: 2.121 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VV024773.D
 Acq: 21 Feb 2022 14:02

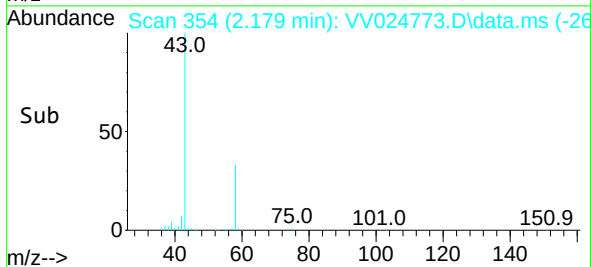
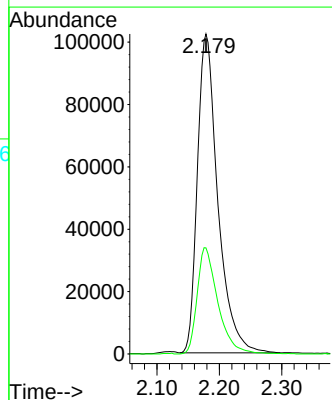
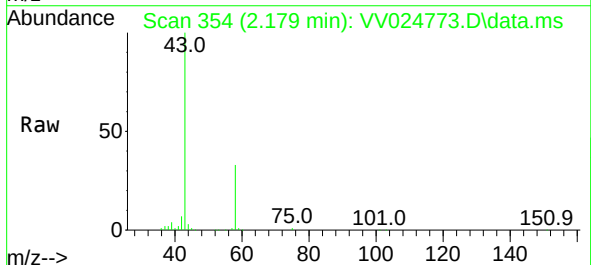
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 ClientSampleId :
 GBD27

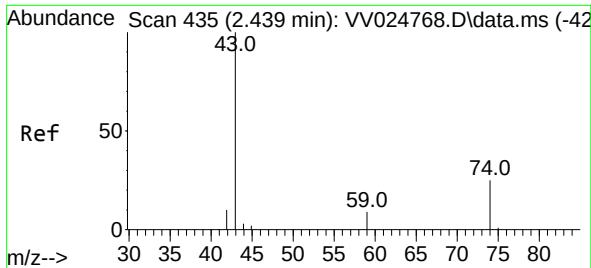
Tgt Ion: 96 Resp: 27632
 Ion Ratio Lower Upper
 96 100
 61 179.7 116.3 216.1
 63 181.2 86.0 159.6#



#13
 Acetone
 Concen: 155.534 ug/L
 RT: 2.179 min Scan# 354
 Delta R.T. -0.006 min
 Lab File: VV024773.D
 Acq: 21 Feb 2022 14:02

Tgt Ion: 43 Resp: 233538
 Ion Ratio Lower Upper
 43 100
 58 33.7 0.0 63.6





#15

Methyl Acetate

Concen: 9.848 ug/L

RT: 2.436 min Scan# 41

Delta R.T. -0.003 min

Lab File: VV024773.D

Acq: 21 Feb 2022 14:02

Instrument :

MSVOA_V

ClientSampleId :

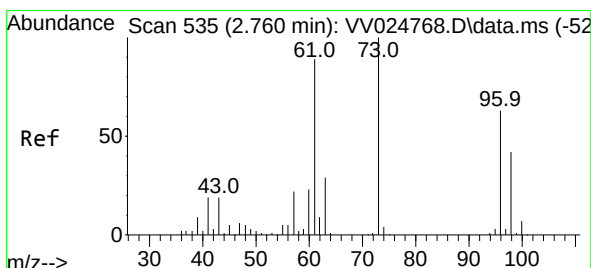
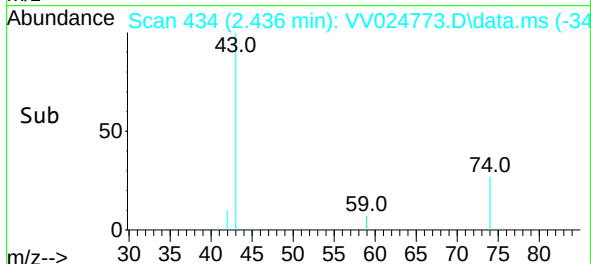
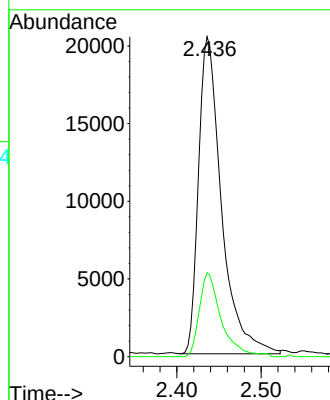
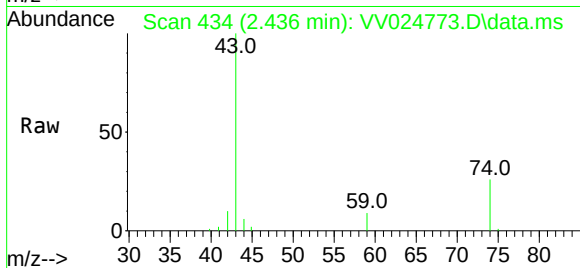
GBD27

Tgt Ion: 43 Resp: 38714

Ion Ratio Lower Upper

43 100

74 25.2 20.8 31.2



#18

trans-1,2-Dichloroethene

Concen: 2.723 ug/L

RT: 2.764 min Scan# 536

Delta R.T. 0.003 min

Lab File: VV024773.D

Acq: 21 Feb 2022 14:02

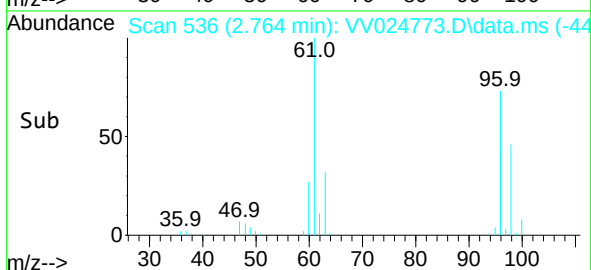
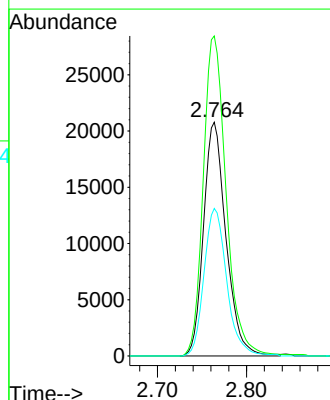
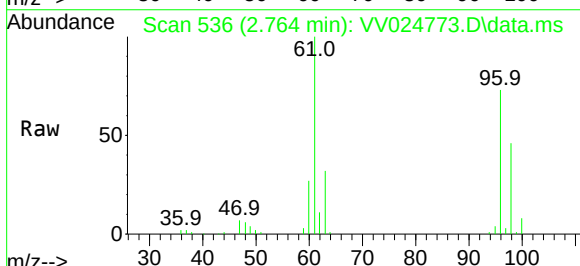
Tgt Ion: 96 Resp: 36397

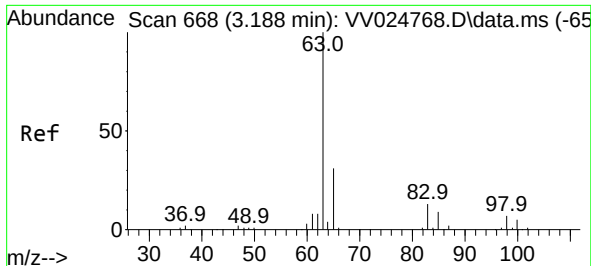
Ion Ratio Lower Upper

96 100

61 136.9 92.9 172.5

98 63.1 44.5 82.7





#19

1,1-Dichloroethane

Concen: 2.032 ug/L

RT: 3.191 min Scan# 6

Delta R.T. 0.003 min

Lab File: VV024773.D

Acq: 21 Feb 2022 14:02

Instrument :

MSVOA_V

ClientSampleId :

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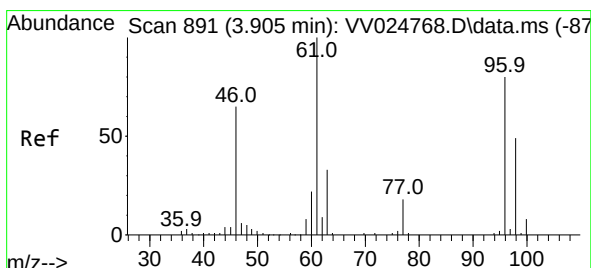
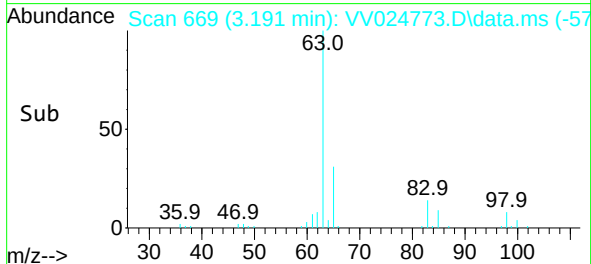
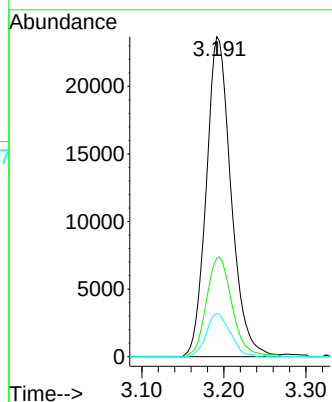
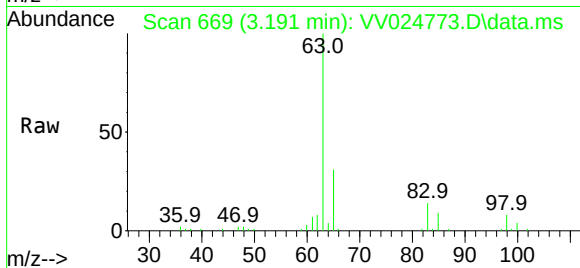
Tgt Ion: 63 Resp: 49730

Ion Ratio Lower Upper

63 100

65 30.7 22.0 40.8

83 13.5 9.5 17.7



#22

cis-1,2-Dichloroethene

Concen: 3.972 ug/L

RT: 3.912 min Scan# 893

Delta R.T. 0.007 min

Lab File: VV024773.D

Acq: 21 Feb 2022 14:02

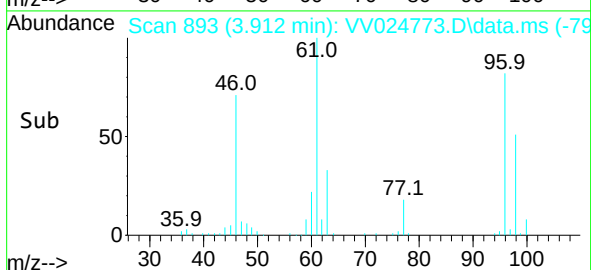
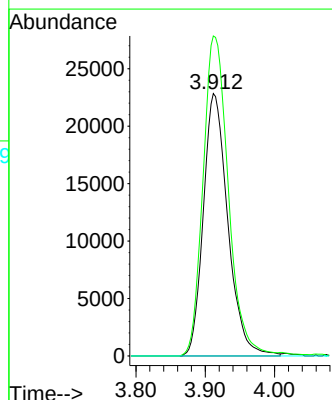
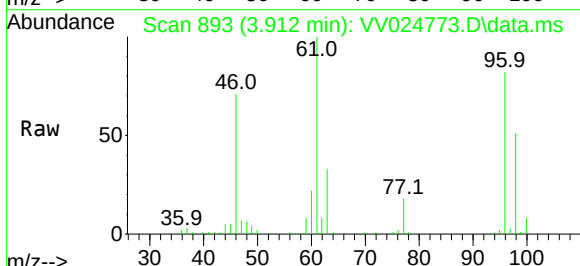
Tgt Ion: 96 Resp: 56119

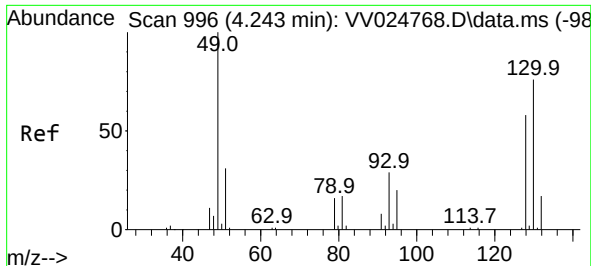
Ion Ratio Lower Upper

96 100

61 122.0 89.7 166.5

68 0.0 0.0 0.0

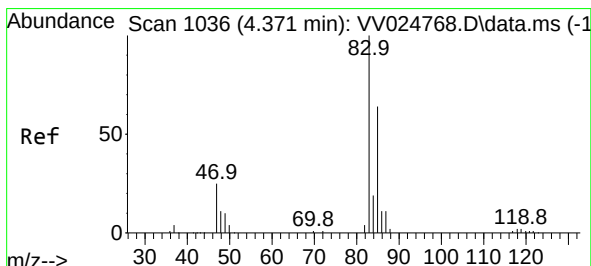
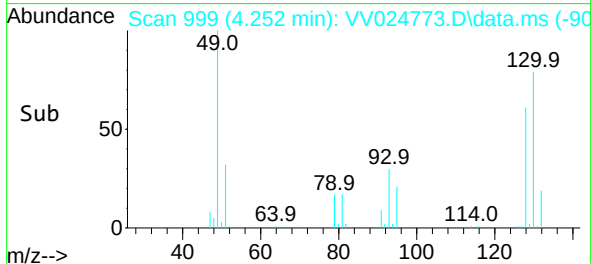
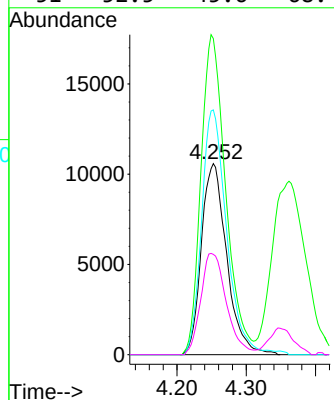
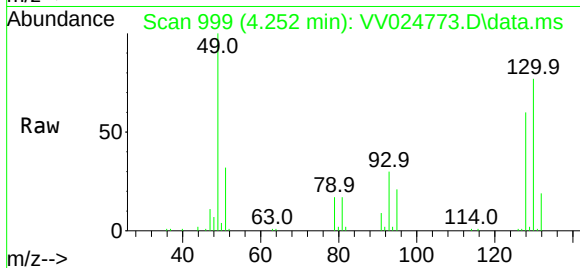




#23
Bromochloromethane
Concen: 4.922 ug/L
RT: 4.252 min Scan# 996
Delta R.T. 0.010 min
Lab File: VV024773.D
Acq: 21 Feb 2022 14:02

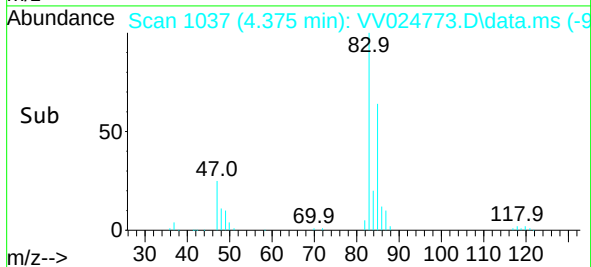
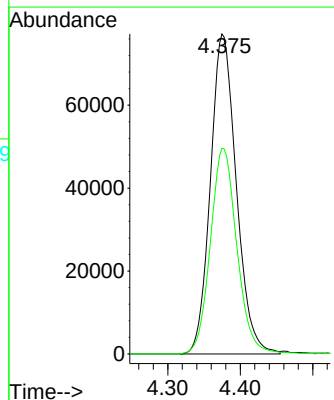
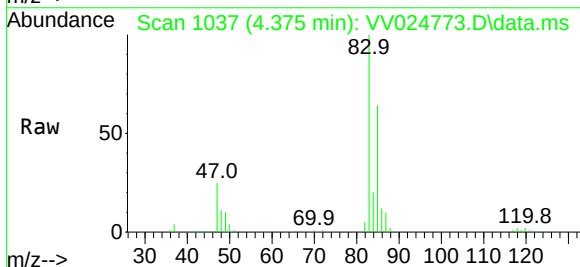
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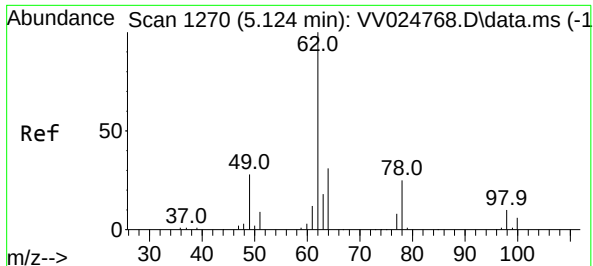
Tgt Ion:	128	Resp:	26878
Ion	Ratio	Lower	Upper
128	100		
49	165.5	124.2	230.6
130	128.2	92.1	171.1
51	52.5	45.6	68.4



#25
Chloroform
Concen: 7.491 ug/L
RT: 4.375 min Scan# 1037
Delta R.T. 0.003 min
Lab File: VV024773.D
Acq: 21 Feb 2022 14:02

Tgt Ion:	83	Resp:	191541
Ion	Ratio	Lower	Upper
83	100		
85	64.3	45.5	84.5





#27

1,2-Dichloroethane

Concen: 1.920 ug/L

RT: 5.137 min Scan# 1110

Delta R.T. 0.013 min

Lab File: VV024773.D

Acq: 21 Feb 2022 14:02

Instrument :

MSVOA_V

ClientSampleId :

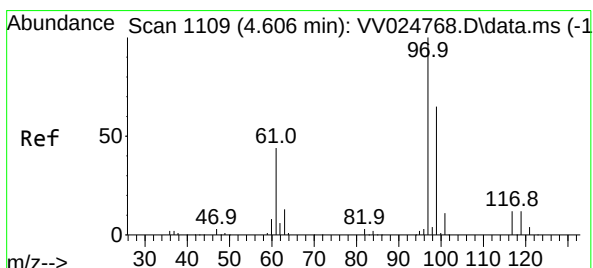
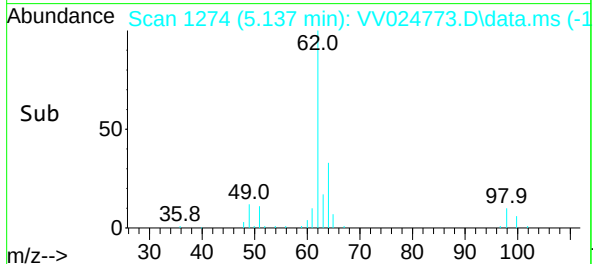
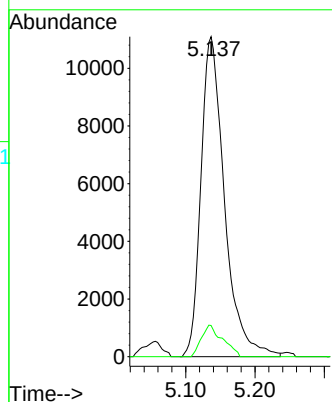
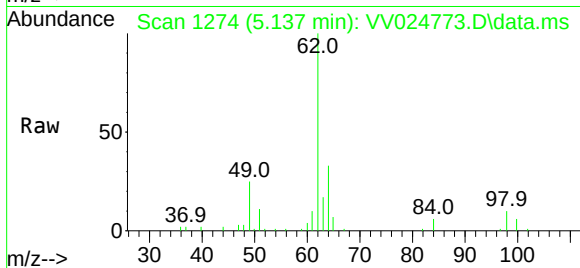
GBD27

Tgt Ion: 62 Resp: 26208

Ion Ratio Lower Upper

62 100

98 9.8 8.2 12.2



#29

1,1,1-Trichloroethane

Concen: 1.979 ug/L

RT: 4.609 min Scan# 1110

Delta R.T. 0.003 min

Lab File: VV024773.D

Acq: 21 Feb 2022 14:02

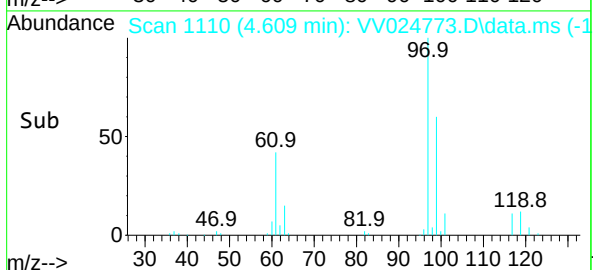
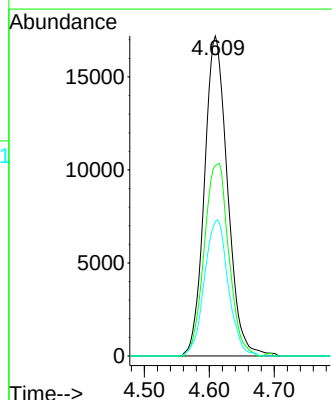
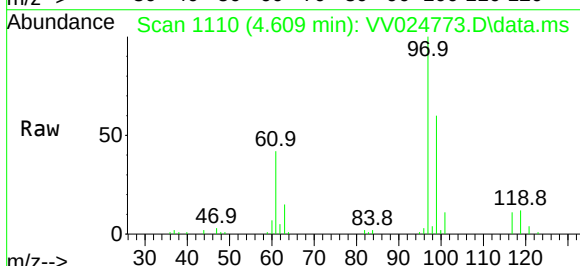
Tgt Ion: 97 Resp: 42575

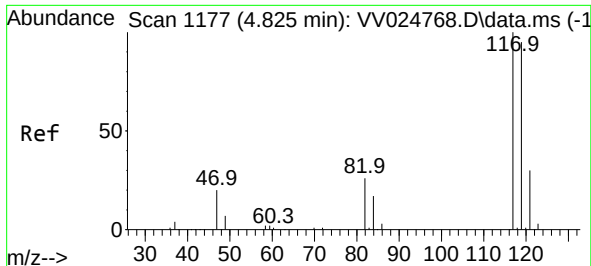
Ion Ratio Lower Upper

97 100

99 63.7 50.5 75.7

61 43.9 35.8 53.6

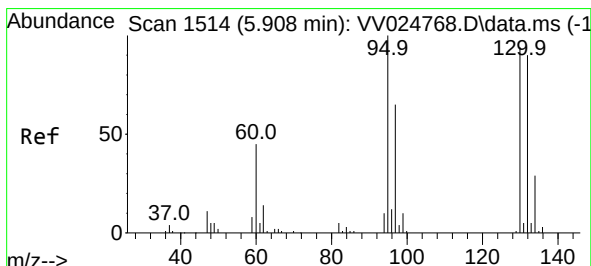
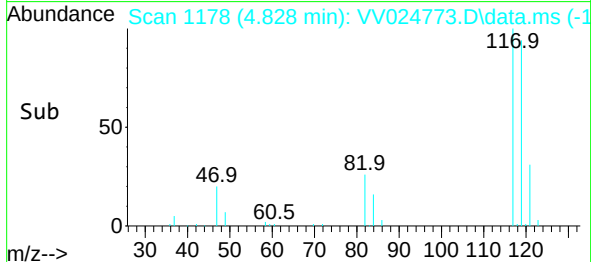
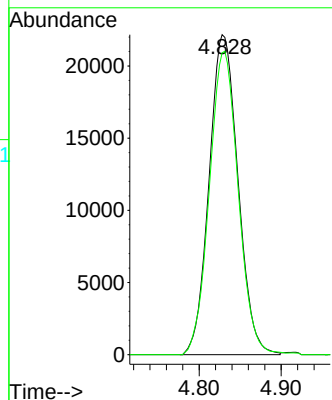
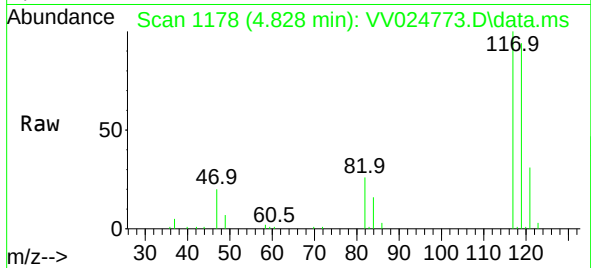




#31
Carbon tetrachloride
Concen: 2.995 ug/L
RT: 4.828 min Scan# 1177
Delta R.T. 0.003 min
Lab File: VV024773.D
Acq: 21 Feb 2022 14:02

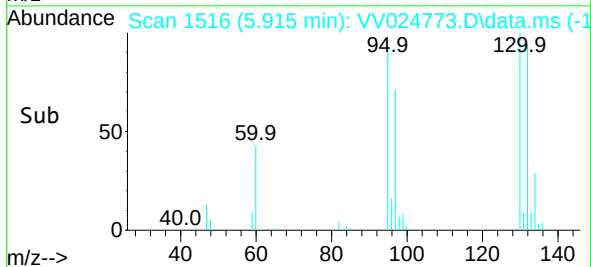
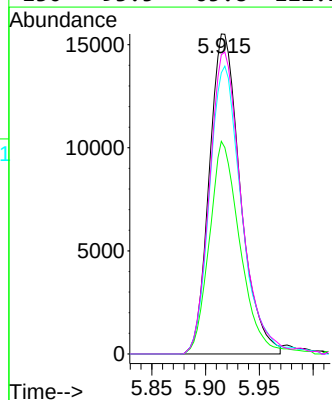
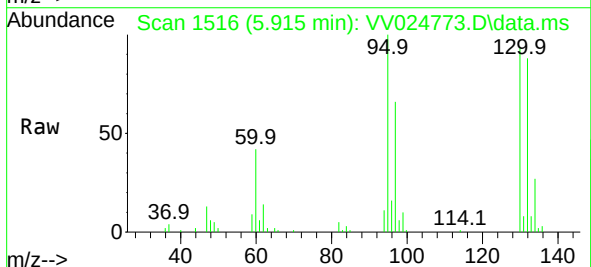
Instrument :
MSVOA_V
ClientSampleId :
GBD27

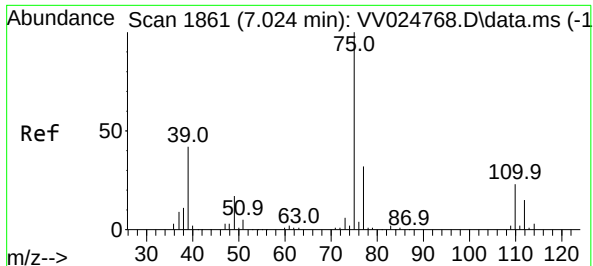
Tgt Ion:117 Resp: 54167
Ion Ratio Lower Upper
117 100
119 94.7 76.6 115.0



#34
Trichloroethene
Concen: 2.167 ug/L
RT: 5.915 min Scan# 1516
Delta R.T. 0.007 min
Lab File: VV024773.D
Acq: 21 Feb 2022 14:02

Tgt Ion: 95 Resp: 31158
Ion Ratio Lower Upper
95 100
97 66.4 44.2 82.0
132 87.9 62.1 115.3
130 93.5 65.8 122.2





#39

cis-1,3-Dichloropropene

Concen: 4.725 ug/L

RT: 7.027 min Scan# 1862

Delta R.T. 0.003 min

Lab File: VV024773.D

Acq: 21 Feb 2022 14:02

Instrument :

MSVOA_V

ClientSampleId :

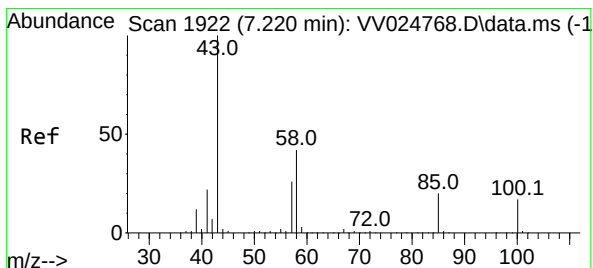
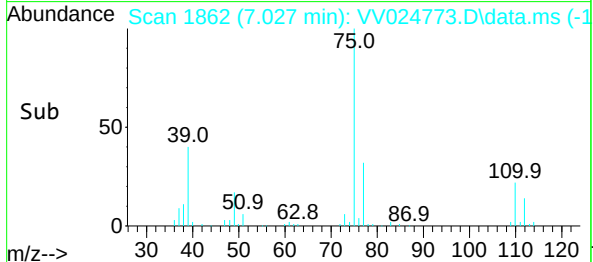
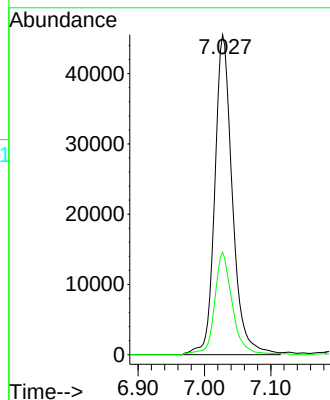
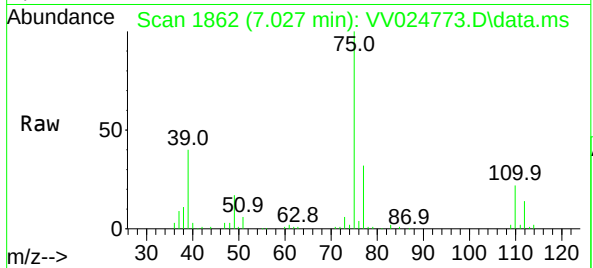
GBD27

Tgt Ion: 75 Resp: 84042

Ion Ratio Lower Upper

75 100

77 32.0 22.3 41.5



#40

4-Methyl-2-pentanone

Concen: 55.782 ug/L

RT: 7.223 min Scan# 1923

Delta R.T. 0.003 min

Lab File: VV024773.D

Acq: 21 Feb 2022 14:02

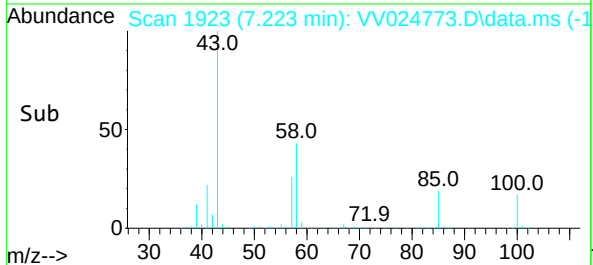
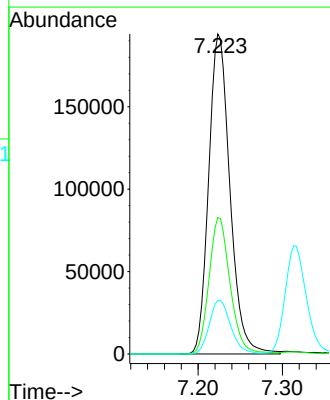
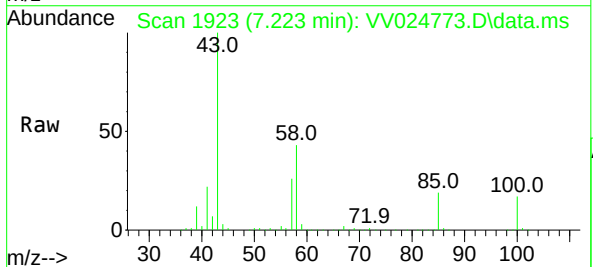
Tgt Ion: 43 Resp: 340250

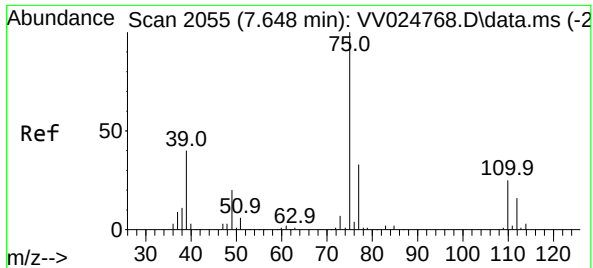
Ion Ratio Lower Upper

43 100

58 42.2 33.0 49.6

100 16.9 13.3 19.9

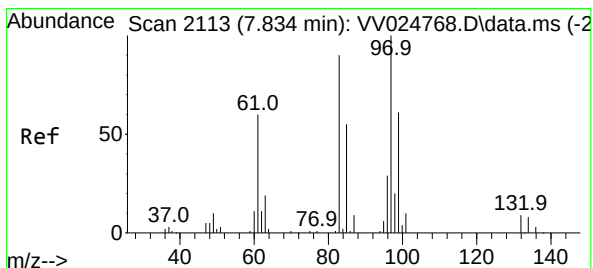
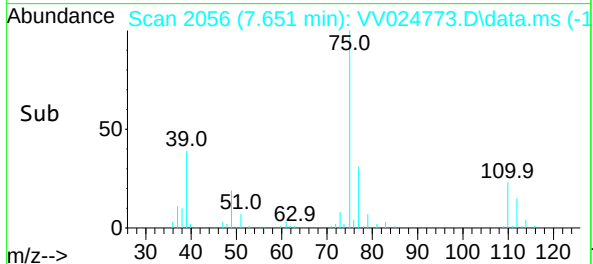
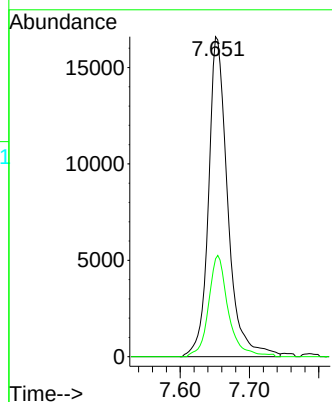
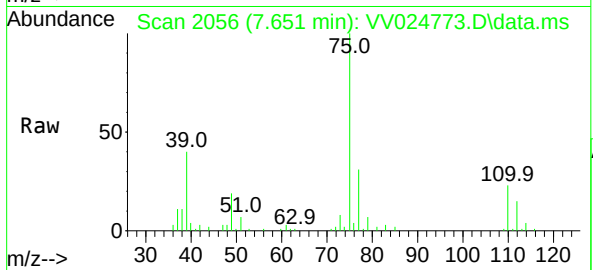




#44
trans-1,3-Dichloropropene
Concen: 2.245 ug/L
RT: 7.651 min Scan# 2055
Delta R.T. 0.003 min
Lab File: VV024773.D
Acq: 21 Feb 2022 14:02

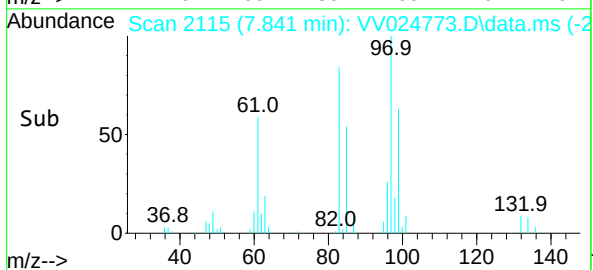
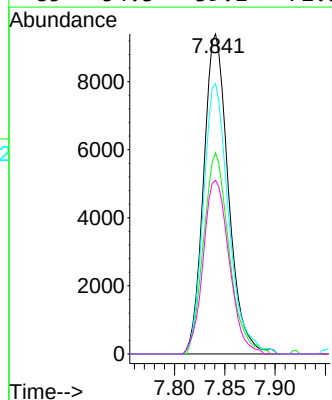
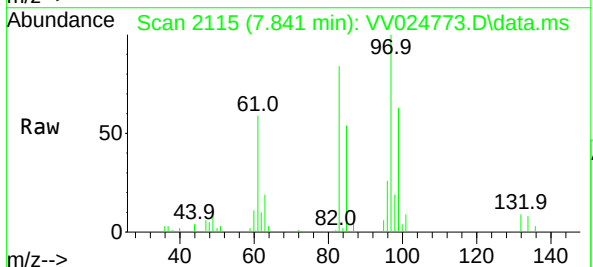
Instrument :
MSVOA_V
ClientSampleId :
GBD27

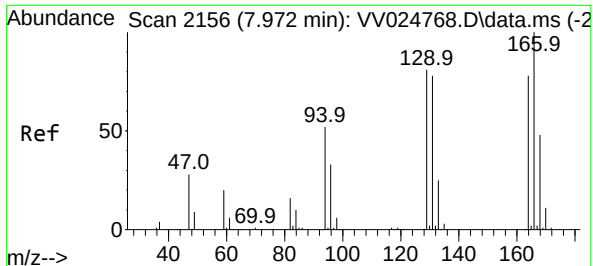
Tgt Ion: 75 Resp: 31909
Ion Ratio Lower Upper
75 100
77 30.6 23.5 43.7



#45
1,1,2-Trichloroethane
Concen: 1.930 ug/L
RT: 7.841 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VV024773.D
Acq: 21 Feb 2022 14:02

Tgt Ion: 97 Resp: 16097
Ion Ratio Lower Upper
97 100
99 62.8 43.8 81.3
83 84.4 61.3 113.9
85 54.3 39.1 72.5





#47

Tetrachloroethene

Concen: 3.004 ug/L

RT: 7.976 min Scan# 2156

Delta R.T. 0.003 min

Lab File: VV024773.D

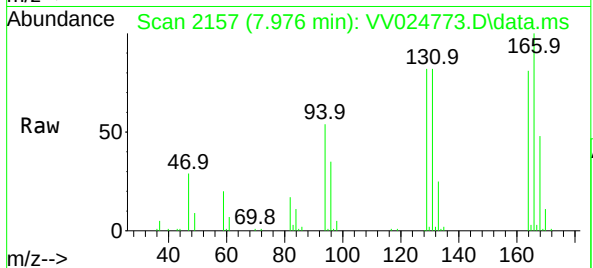
Acq: 21 Feb 2022 14:02

Instrument :

MSVOA_V

ClientSampleId :

GBD27



Tgt Ion:164 Resp: 29415

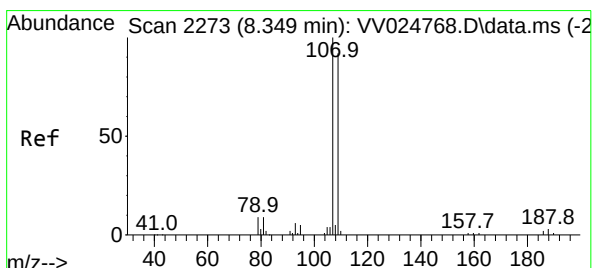
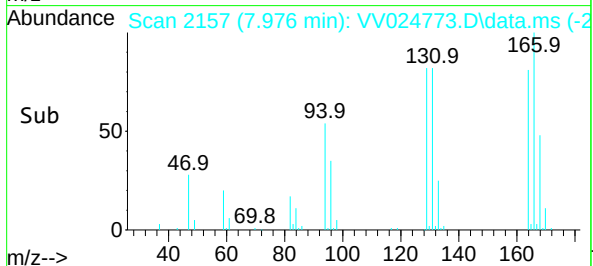
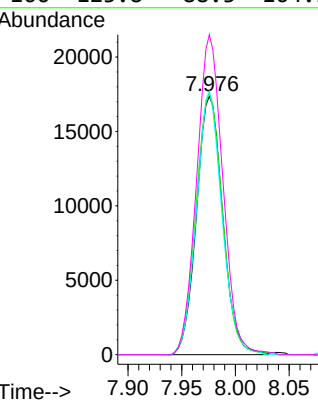
Ion Ratio Lower Upper

164 100

129 101.5 70.3 130.7

131 101.8 67.7 125.7

166 123.8 88.3 164.1



#50

1,2-Dibromoethane

Concen: 4.810 ug/L

RT: 8.352 min Scan# 2274

Delta R.T. 0.003 min

Lab File: VV024773.D

Acq: 21 Feb 2022 14:02

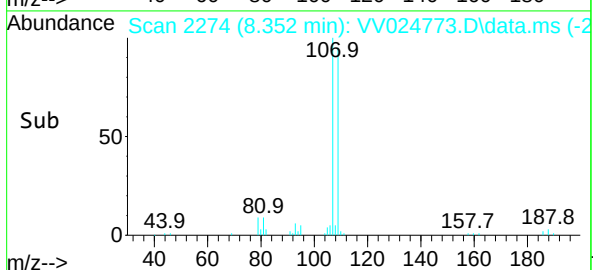
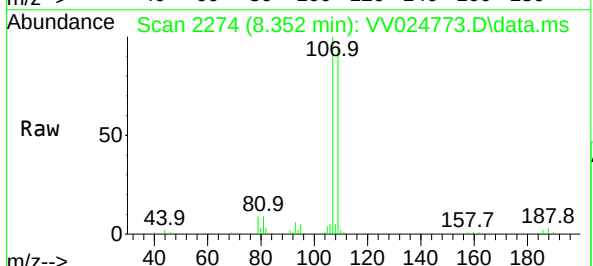
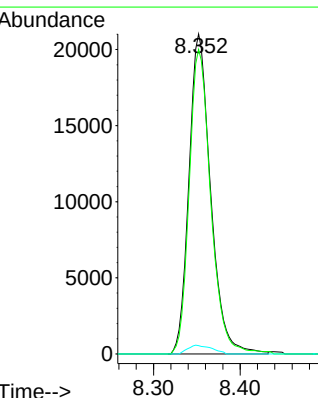
Tgt Ion:107 Resp: 36614

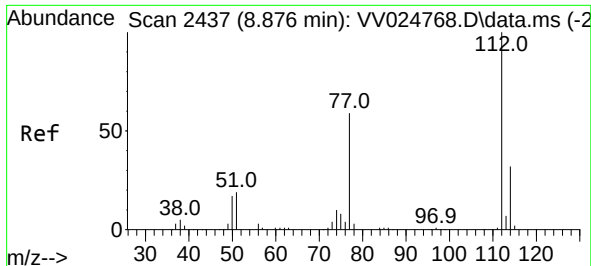
Ion Ratio Lower Upper

107 100

109 95.1 65.6 121.8

188 2.6 2.6 3.8

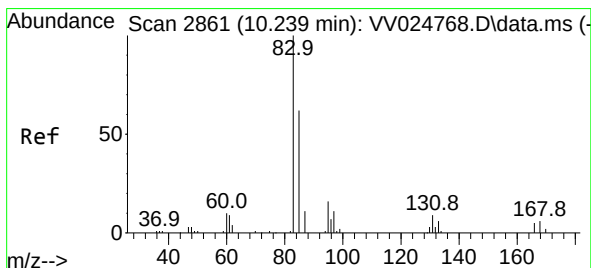
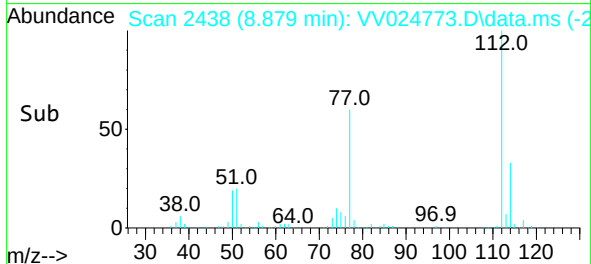
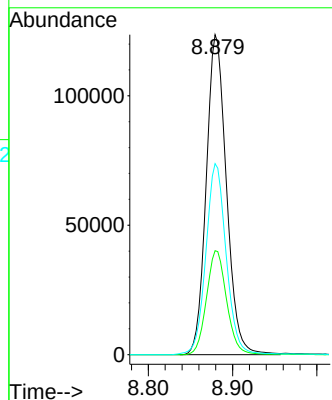
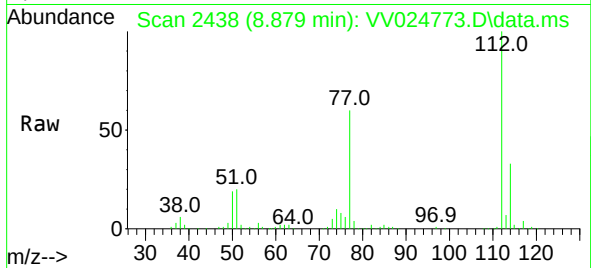




#51
Chlorobenzene
Concen: 5.702 ug/L
RT: 8.879 min Scan# 2437
Delta R.T. 0.003 min
Lab File: VV024773.D
Acq: 21 Feb 2022 14:02

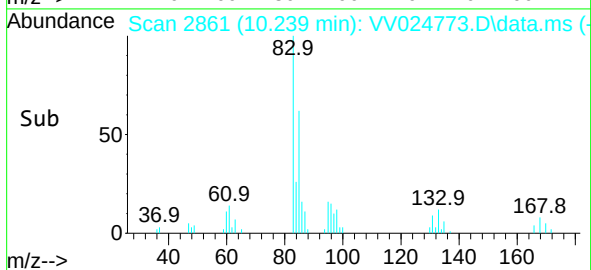
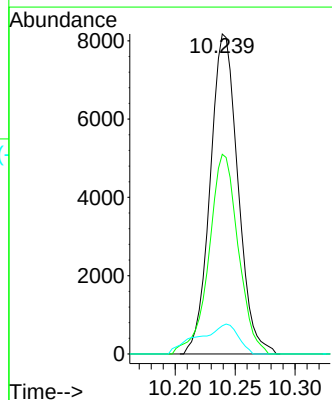
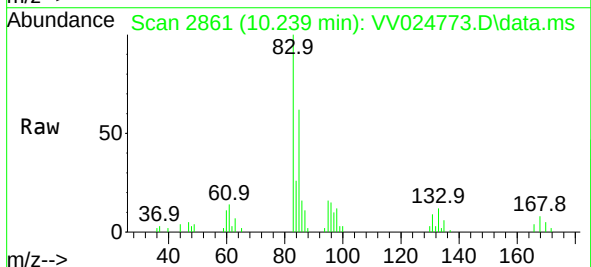
Instrument :
MSVOA_V
ClientSampleId :
GBD27

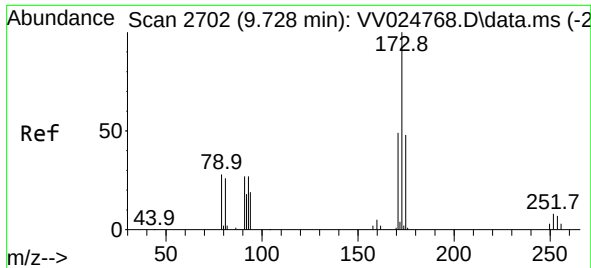
Tgt Ion:112 Resp: 206144
Ion Ratio Lower Upper
112 100
114 32.5 22.3 41.5
77 59.7 48.4 72.6



#57
1,1,2,2-Tetrachloroethane
Concen: 1.489 ug/L
RT: 10.239 min Scan# 2861
Delta R.T. 0.000 min
Lab File: VV024773.D
Acq: 21 Feb 2022 14:02

Tgt Ion: 83 Resp: 13138
Ion Ratio Lower Upper
83 100
85 62.4 43.9 81.5
131 8.8 7.0 10.4





#59

Bromoform

Concen: 2.690 ug/L

RT: 9.731 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV024773.D

Acq: 21 Feb 2022 14:02

Instrument :

MSVOA_V

ClientSampleId :

GBD27

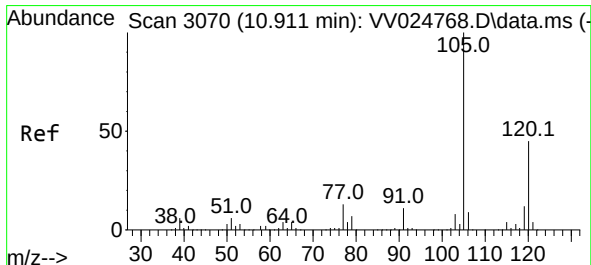
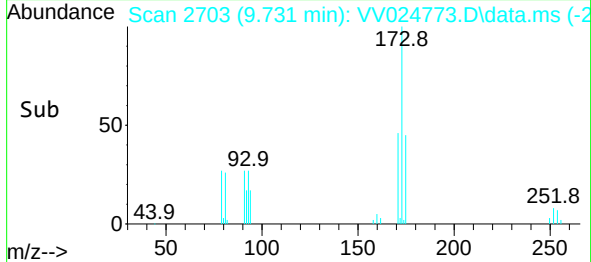
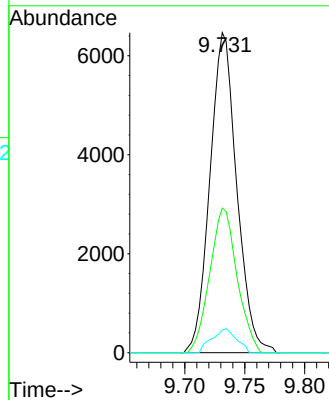
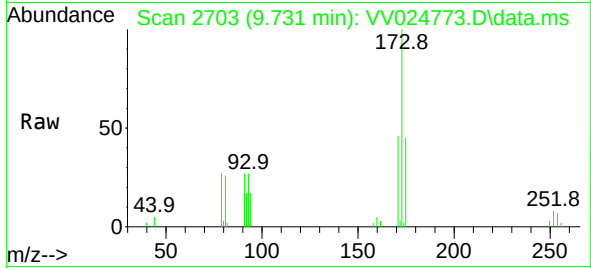
Tgt Ion:173 Resp: 10048

Ion Ratio Lower Upper

173 100

175 45.9 39.4 59.0

254 6.9 7.0 10.4#



#63

1,2,4-Trimethylbenzene

Concen: 4.452 ug/L

RT: 10.915 min Scan# 3071

Delta R.T. 0.003 min

Lab File: VV024773.D

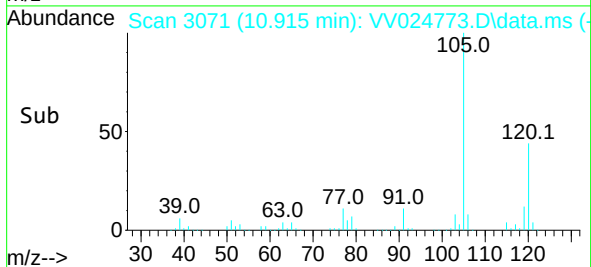
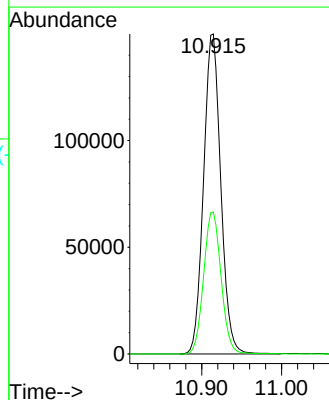
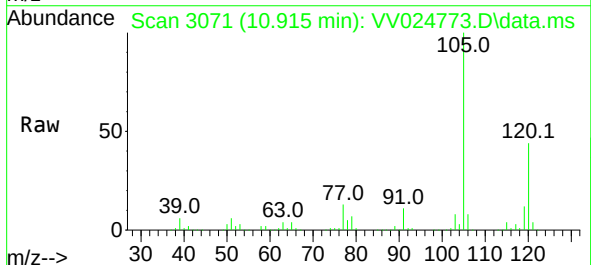
Acq: 21 Feb 2022 14:02

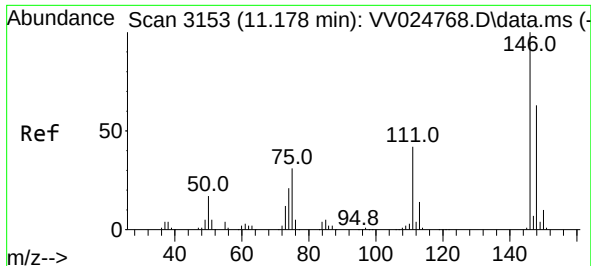
Tgt Ion:105 Resp: 224868

Ion Ratio Lower Upper

105 100

120 45.0 35.9 53.9

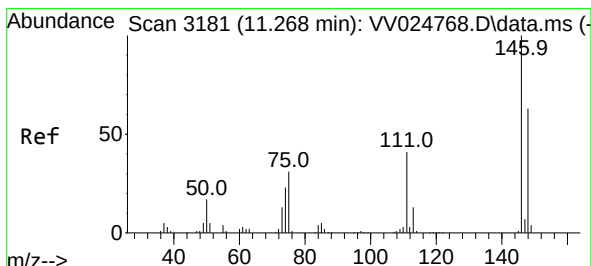
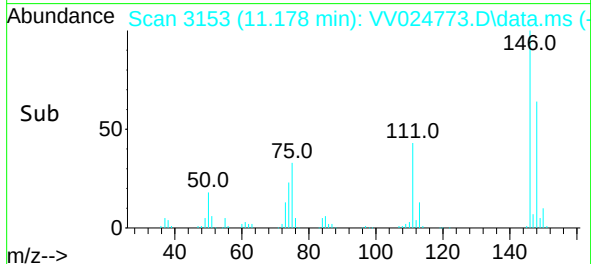
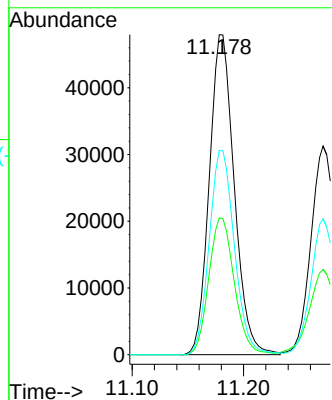
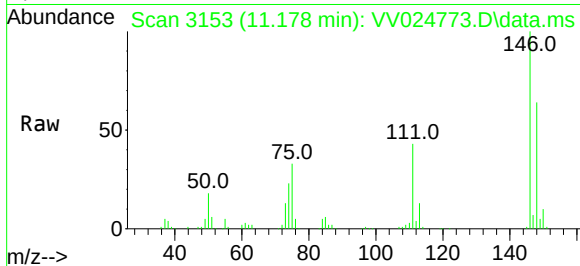




#64
1,3-Dichlorobenzene
Concen: 2.903 ug/L
RT: 11.178 min Scan# 3153
Delta R.T. 0.000 min
Lab File: VV024773.D
Acq: 21 Feb 2022 14:02

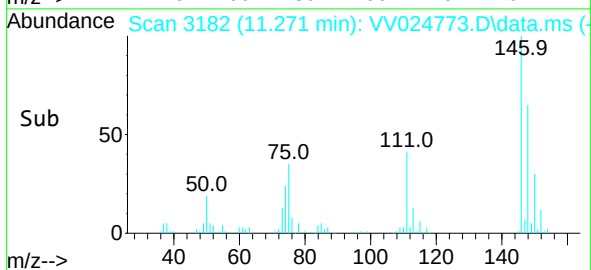
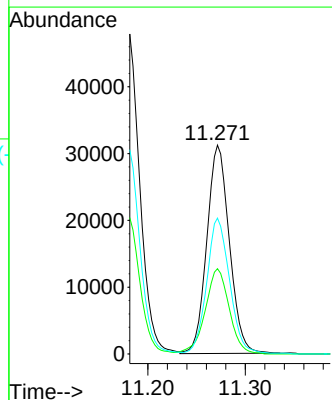
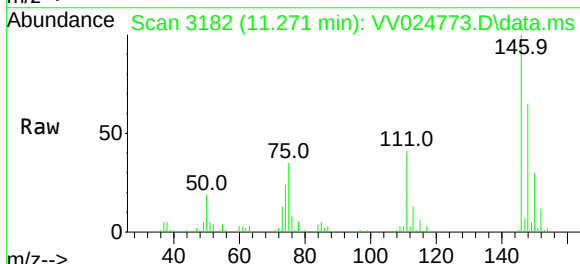
Instrument :
MSVOA_V
ClientSampleId :
GBD27

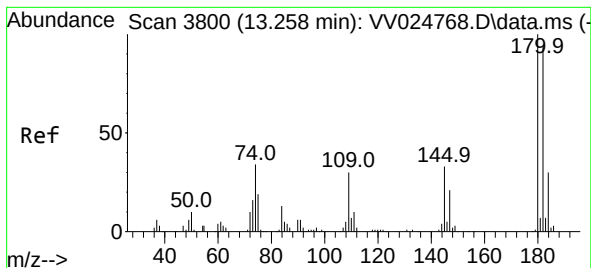
Tgt Ion:146 Resp: 74732
Ion Ratio Lower Upper
146 100
111 42.7 31.0 57.6
148 63.8 45.4 84.4



#65
1,4-Dichlorobenzene
Concen: 1.950 ug/L
RT: 11.271 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VV024773.D
Acq: 21 Feb 2022 14:02

Tgt Ion:146 Resp: 50147
Ion Ratio Lower Upper
146 100
111 40.9 28.3 52.7
148 65.1 44.0 81.8





#70

1,2,4-trichlorobenzene

Concen: 4.833 ug/L

RT: 13.258 min Scan# 3800

Delta R.T. 0.000 min

Lab File: VV024773.D

Acq: 21 Feb 2022 14:02

Instrument :

MSVOA_V

ClientSampleId :

GBD27

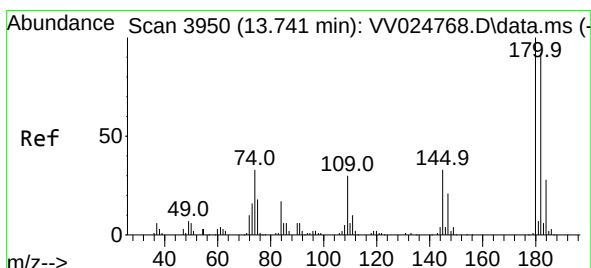
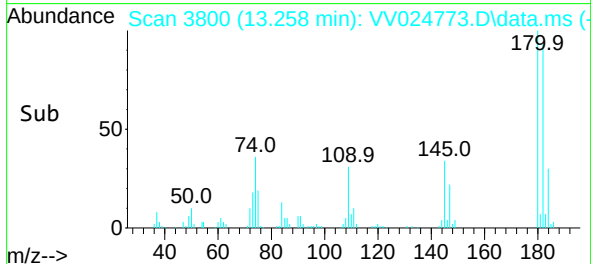
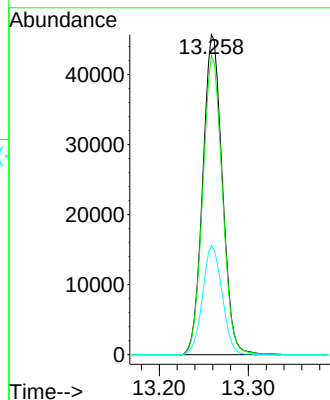
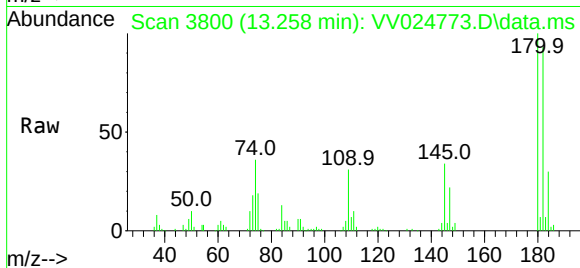
Tgt Ion:180 Resp: 69514

Ion Ratio Lower Upper

180 100

182 94.0 75.0 112.6

145 34.1 26.9 40.3



#72

1,2,3-Trichlorobenzene

Concen: 2.886 ug/L

RT: 13.741 min Scan# 3950

Delta R.T. 0.000 min

Lab File: VV024773.D

Acq: 21 Feb 2022 14:02

Tgt Ion:180 Resp: 34745

Ion Ratio Lower Upper

180 100

182 95.0 75.6 113.4

145 35.1 28.5 42.7

