

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW021122\
 Data File : VW024604.D
 Acq On : 11 Feb 2022 15:14
 Operator : SY/MD
 Sample : N1480-09
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GBCX6

Quant Time: Feb 12 03:44:24 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR020922WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Feb 12 03:41:27 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	114247	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	115198	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	59385	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	38591	4.030	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.600%
7) Chloroethane-d5	1.568	69	38053	4.700	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.000%
11) 1,1-Dichloroethene-d2	2.111	63	77008	3.676	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.600%
20) 2-Butanone-d5	3.892	46	87203	54.852	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.700%
24) Chloroform-d	4.349	84	86391	5.126	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.600%
26) 1,2-Dichloroethane-d4	5.034	65	36832	4.816	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.400%
32) Benzene-d6	5.050	84	157993	4.834	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.600%
36) 1,2-Dichloropropane-d6	6.069	67	49077	4.828	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.600%
41) Toluene-d8	7.313	98	145685	4.779	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.600%
43) trans-1,3-Dichloroprop...	7.622	79	18052	4.397	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.000%
46) 2-Hexanone-d5	8.088	63	72292	49.982	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.960%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	29267	4.835	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.800%
66) 1,2-Dichlorobenzene-d4	11.625	152	46630	4.871	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.130	85	55178	3.675	ug/L	100
5) Vinyl chloride	1.310	62	62033	3.900	ug/L	99
8) Chloroethane	1.584	64	146117	14.996	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.117	101	137467	11.469	ug/L #	86
12) 1,1-Dichloroethene	2.117	96	27642	2.337	ug/L #	61
13) Acetone	2.182	43	212945	169.732	ug/L	74
15) Methyl Acetate	2.436	43	36132	10.071	ug/L	99
18) trans-1,2-Dichloroethene	2.761	96	33216	2.858	ug/L	89
19) 1,1-Dichloroethane	3.191	63	45848	2.284	ug/L	99
22) cis-1,2-Dichloroethene	3.912	96	51580	4.403	ug/L	94
23) Bromochloromethane	4.249	128	24141	5.426	ug/L	86
25) Chloroform	4.375	83	174491	8.306	ug/L	99
27) 1,2-Dichloroethane	5.137	62	24784	2.152	ug/L	99
29) 1,1,1-Trichloroethane	4.606	97	39741	2.103	ug/L	98
31) Carbon tetrachloride	4.828	117	50067	3.128	ug/L	100
34) Trichloroethene	5.915	95	29834	2.410	ug/L	86
39) cis-1,3-Dichloropropene	7.027	75	84145	5.067	ug/L	100
40) 4-Methyl-2-pentanone	7.223	43	334929	59.558	ug/L	100
44) trans-1,3-Dichloropropene	7.651	75	32337	2.357	ug/L	98

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

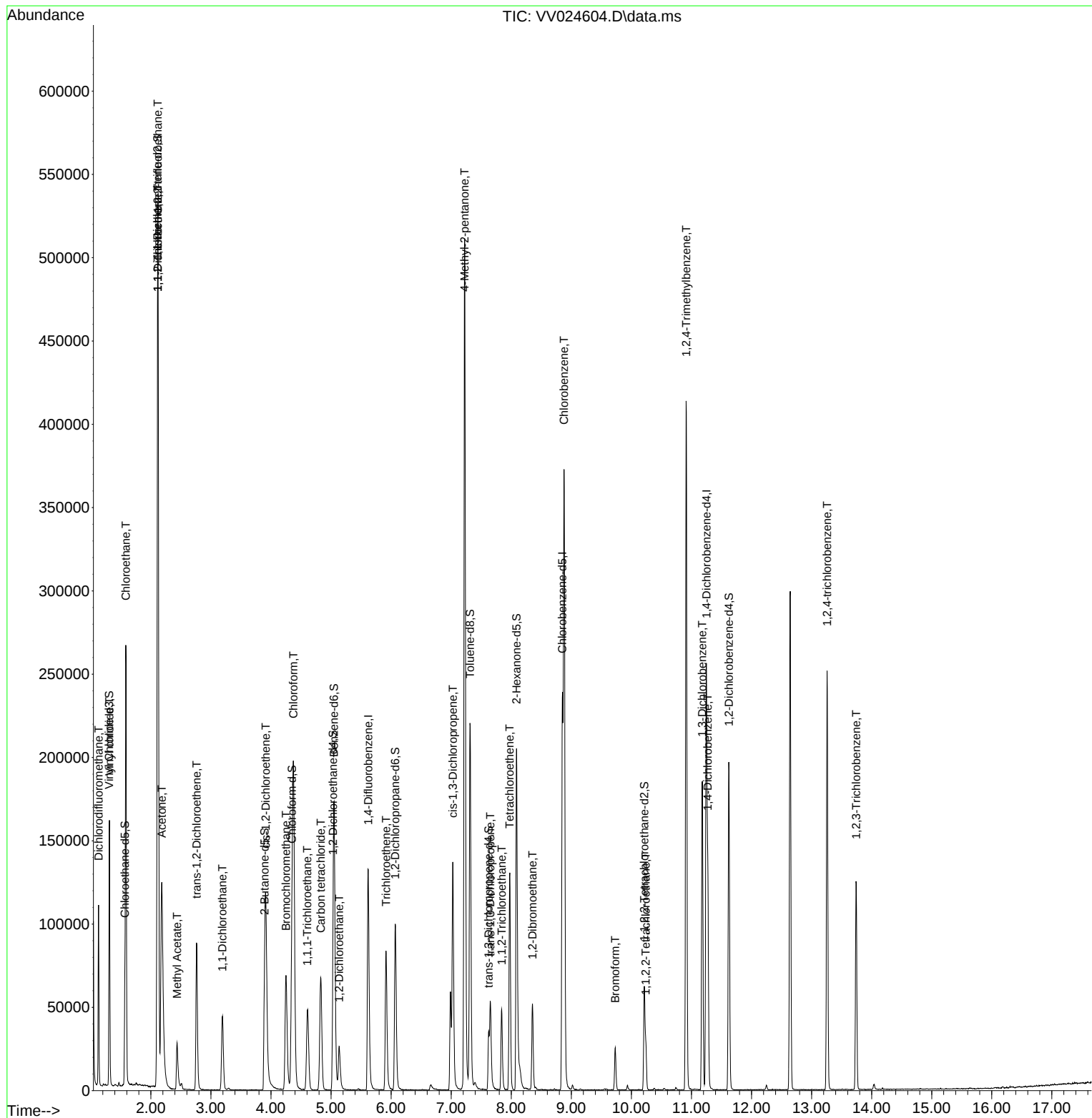
45) 1,1,2-Trichloroethane	7.841	97	14994	2.123	ug/L	98
47) Tetrachloroethene	7.976	164	26153	3.184	ug/L	93
50) 1,2-Dibromoethane	8.352	107	33404	5.040	ug/L #	93
51) Chlorobenzene	8.879	112	186824	6.224	ug/L	92
57) 1,1,2,2-Tetrachloroethane	10.239	83	11896	1.663	ug/L	99
59) Bromoform	9.731	173	10343	2.726	ug/L #	95
63) 1,2,4-Trimethylbenzene	10.911	105	222051	4.843	ug/L	97
64) 1,3-Dichlorobenzene	11.181	146	71251	3.250	ug/L	95
65) 1,4-Dichlorobenzene	11.271	146	45150	2.073	ug/L	96
70) 1,2,4-trichlorobenzene	13.258	180	65593	5.208	ug/L	97
72) 1,2,3-Trichlorobenzene	13.744	180	32984	3.113	ug/L	97

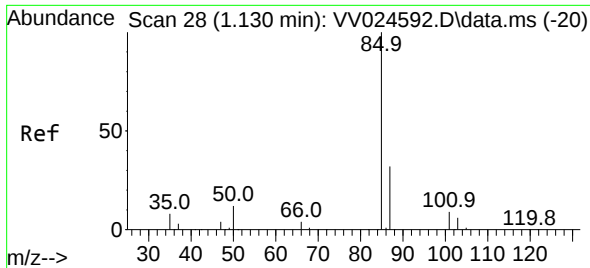
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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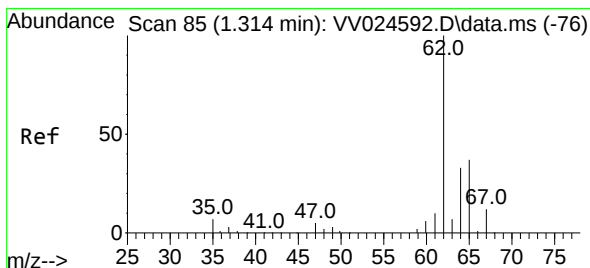
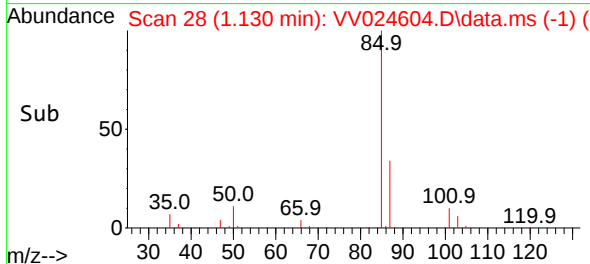
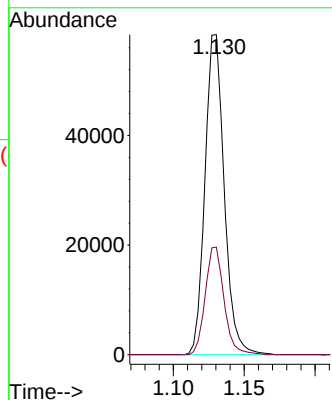
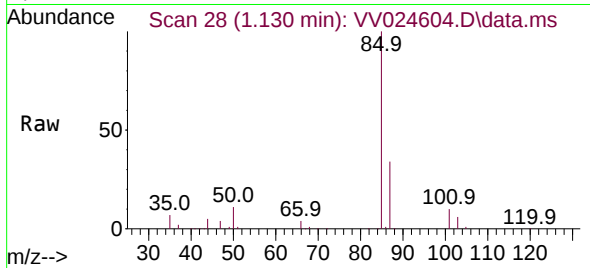




#2
 Dichlorodifluoromethane
 Concen: 3.675 ug/L
 RT: 1.130 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VV024604.D
 Acq: 11 Feb 2022 15:14

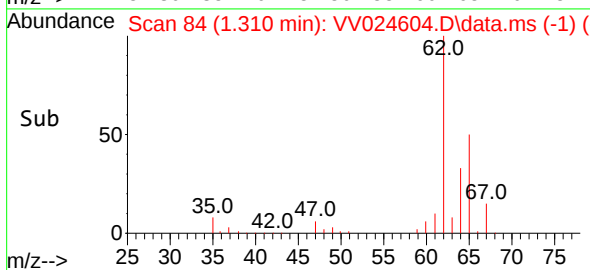
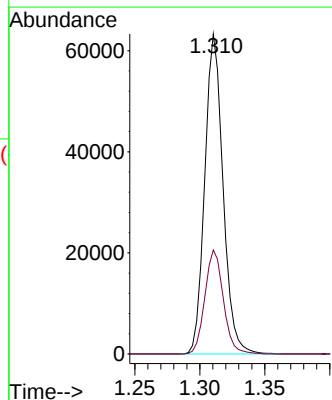
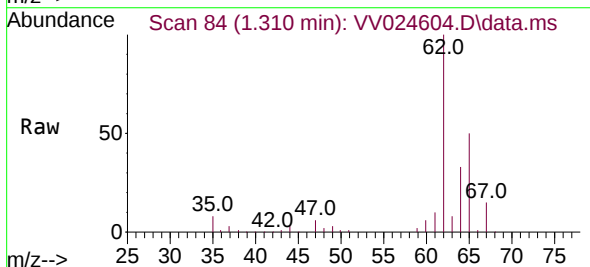
Instrument :
 MSVOA_V
 ClientSampleId :
 GBCX6

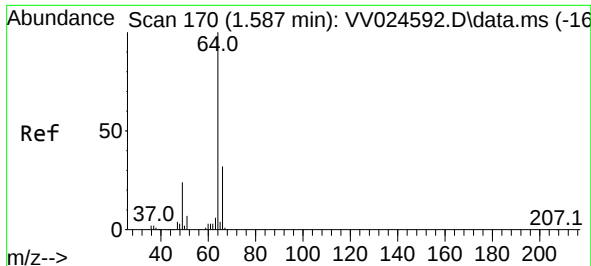
Tgt Ion: 85 Resp: 55178
 Ion Ratio Lower Upper
 85 100
 87 32.7 26.0 39.0



#5
 Vinyl chloride
 Concen: 3.900 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. -0.003 min
 Lab File: VV024604.D
 Acq: 11 Feb 2022 15:14

Tgt Ion: 62 Resp: 62033
 Ion Ratio Lower Upper
 62 100
 64 32.5 22.4 41.6

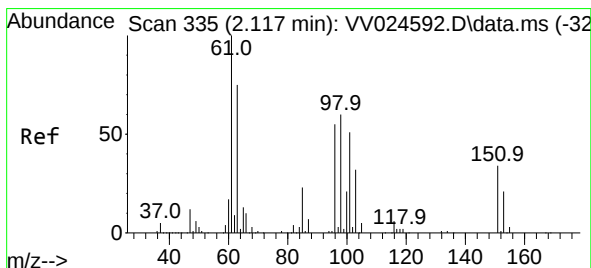
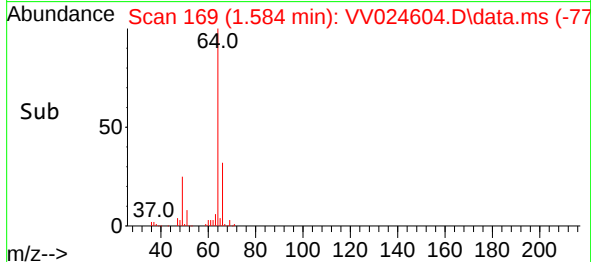
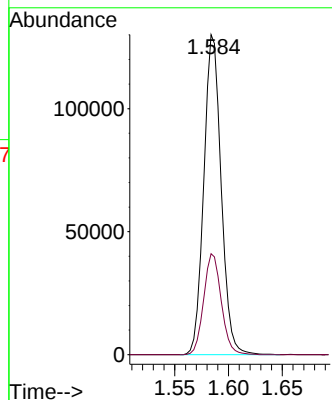
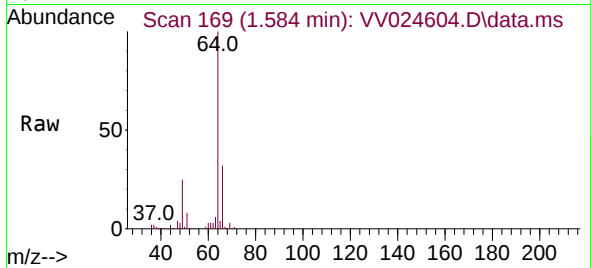




#8
Chloroethane
Concen: 14.996 ug/L
RT: 1.584 min Scan# 1
Delta R.T. -0.003 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

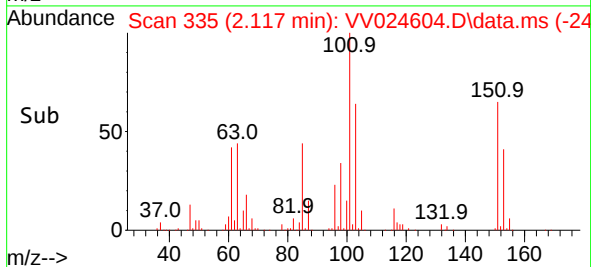
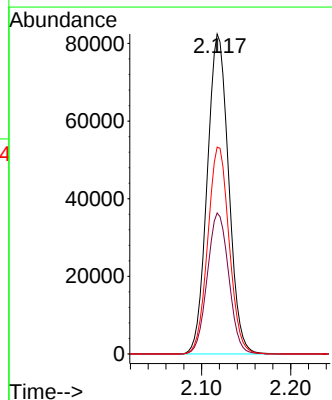
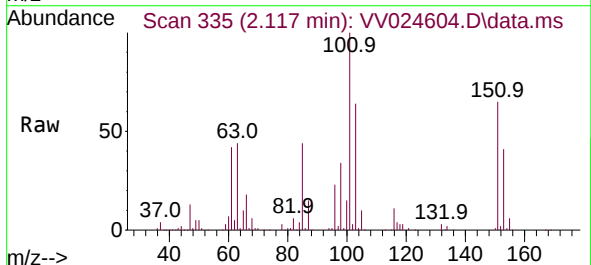
Instrument :
MSVOA_V
ClientSampleId :
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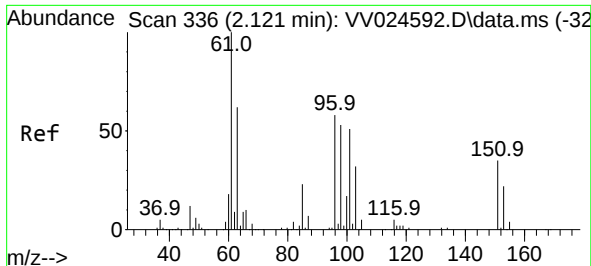
Tgt Ion: 64 Resp: 146117
Ion Ratio Lower Upper
64 100
66 31.5 21.4 39.8



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 11.469 ug/L
RT: 2.117 min Scan# 335
Delta R.T. 0.000 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

Tgt Ion: 101 Resp: 137467
Ion Ratio Lower Upper
101 100
85 44.2 36.0 54.0
151 64.7 66.4 99.6#

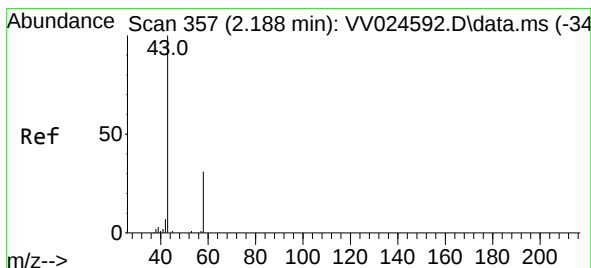
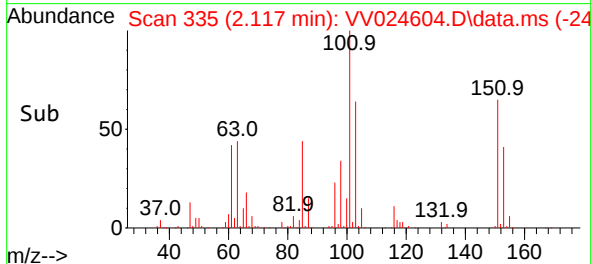
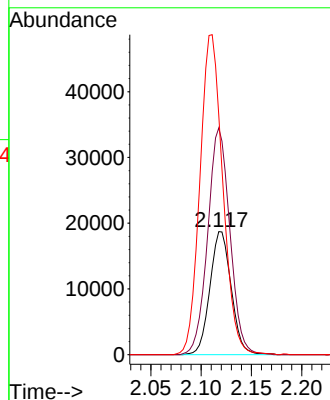
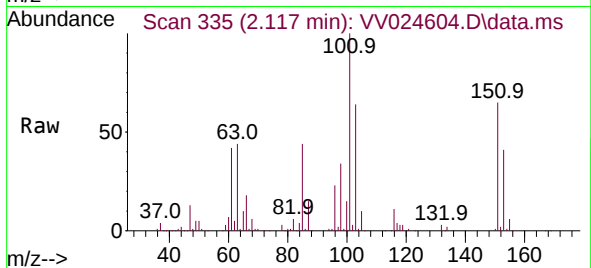




#12
1,1-Dichloroethene
Concen: 2.337 ug/L
RT: 2.117 min Scan# 311
Delta R.T. -0.003 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

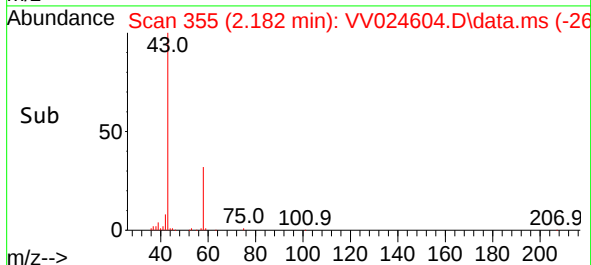
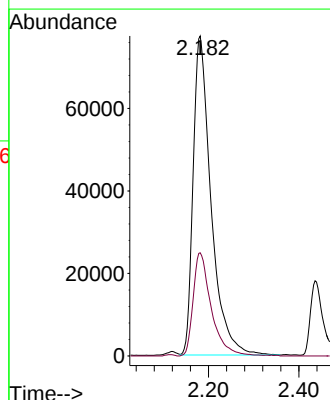
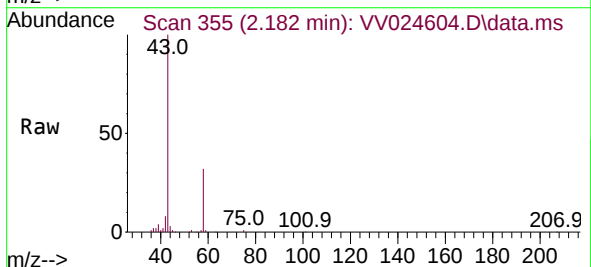
Instrument :
MSVOA_V
ClientSampleId :
GBCX6

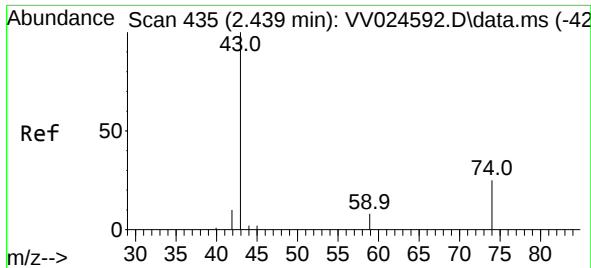
Tgt Ion: 96 Resp: 27642
Ion Ratio Lower Upper
96 100
61 184.2 116.1 215.5
63 194.7 79.4 147.4#



#13
Acetone
Concen: 169.732 ug/L
RT: 2.182 min Scan# 355
Delta R.T. -0.006 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

Tgt Ion: 43 Resp: 212945
Ion Ratio Lower Upper
43 100
58 32.6 0.0 41.4





#15

Methyl Acetate

Concen: 10.071 ug/L

RT: 2.436 min Scan# 41

Delta R.T. -0.003 min

Lab File: VV024604.D

Acq: 11 Feb 2022 15:14

Instrument :

MSVOA_V

ClientSampleId :

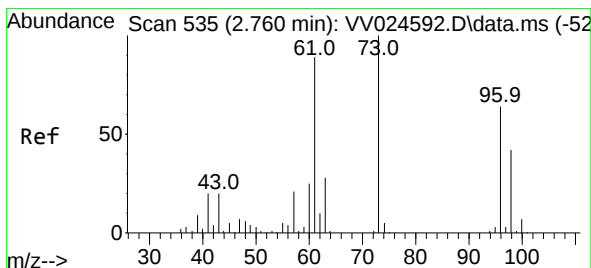
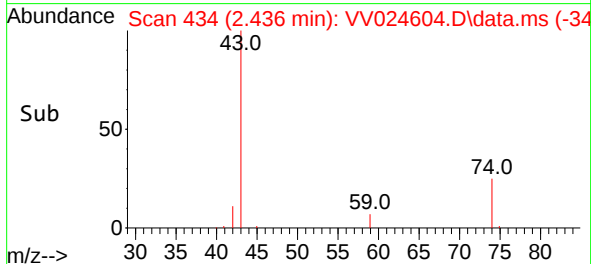
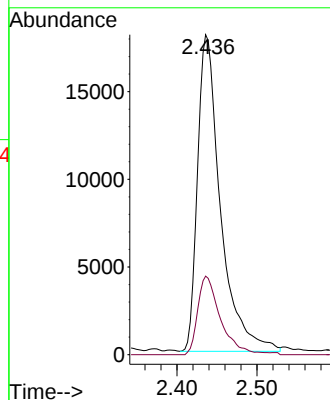
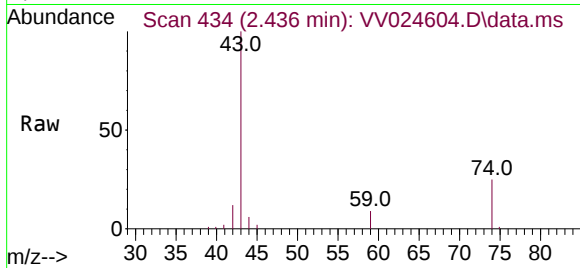
GBCX6

Tgt Ion: 43 Resp: 36132

Ion Ratio Lower Upper

43 100

74 24.5 20.2 30.2



#18

trans-1,2-Dichloroethene

Concen: 2.858 ug/L

RT: 2.761 min Scan# 535

Delta R.T. 0.000 min

Lab File: VV024604.D

Acq: 11 Feb 2022 15:14

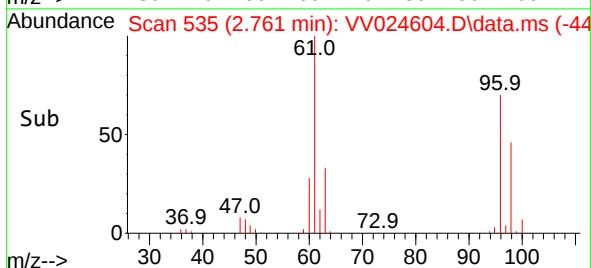
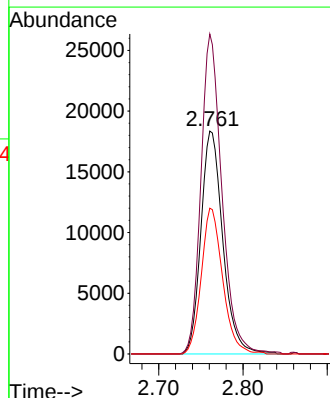
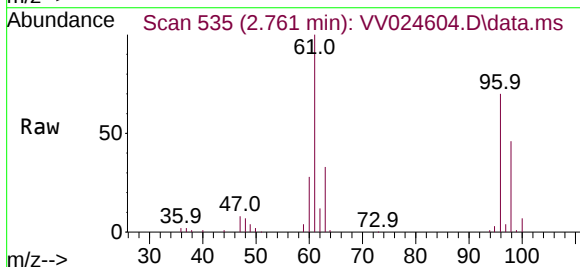
Tgt Ion: 96 Resp: 33216

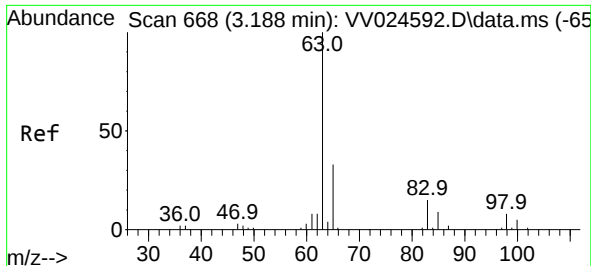
Ion Ratio Lower Upper

96 100

61 143.6 88.2 163.8

98 65.4 44.9 83.5





#19

1,1-Dichloroethane

Concen: 2.284 ug/L

RT: 3.191 min Scan# 6

Delta R.T. 0.003 min

Lab File: VV024604.D

Acq: 11 Feb 2022 15:14

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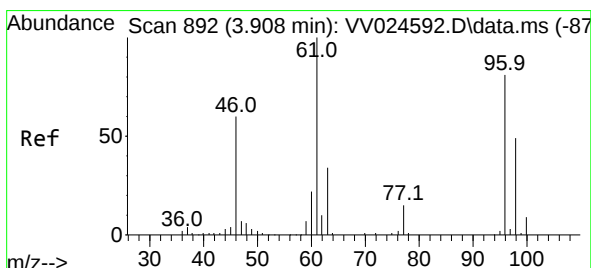
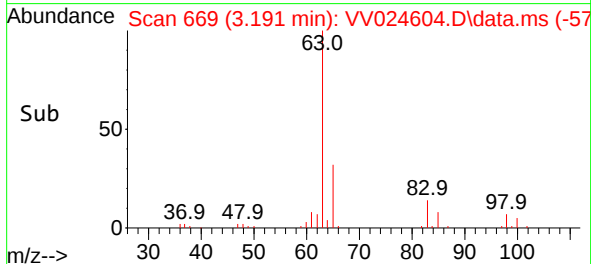
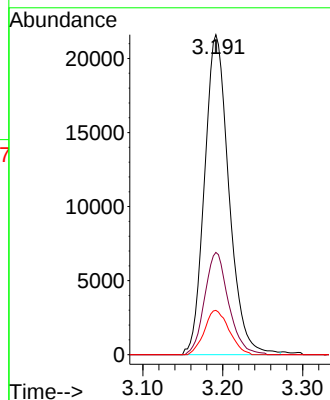
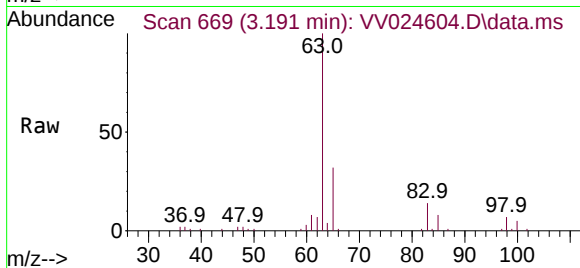
Tgt Ion: 63 Resp: 45848

Ion Ratio Lower Upper

63 100

65 32.0 22.3 41.3

83 13.8 10.7 19.9



#22

cis-1,2-Dichloroethene

Concen: 4.403 ug/L

RT: 3.912 min Scan# 893

Delta R.T. 0.003 min

Lab File: VV024604.D

Acq: 11 Feb 2022 15:14

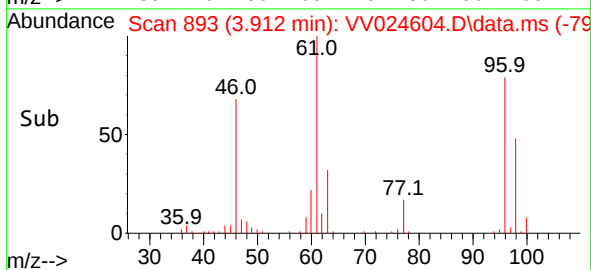
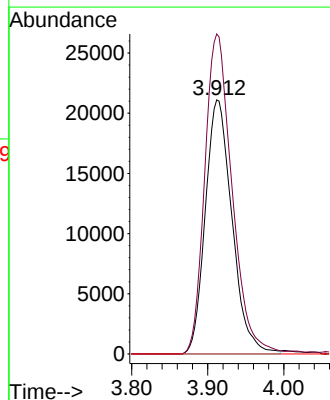
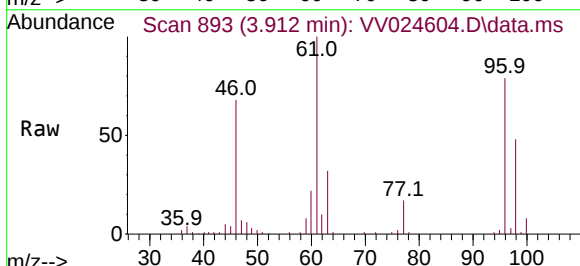
Tgt Ion: 96 Resp: 51580

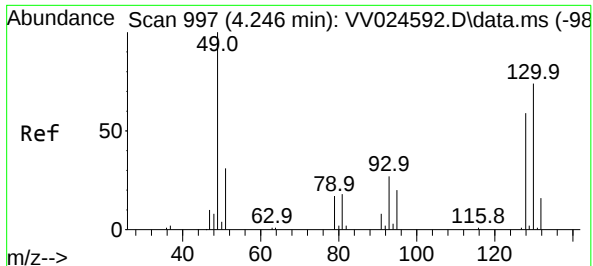
Ion Ratio Lower Upper

96 100

61 125.9 83.4 154.8

68 0.0 0.0 0.0

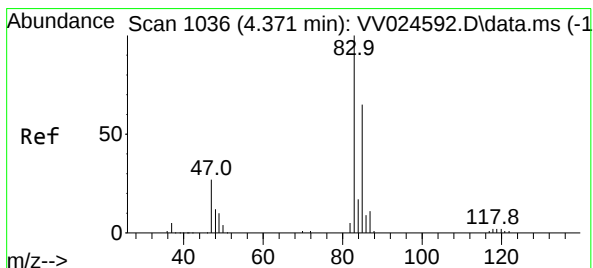
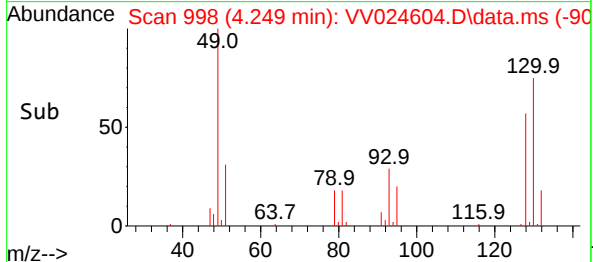
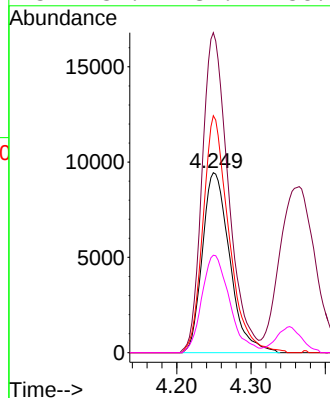
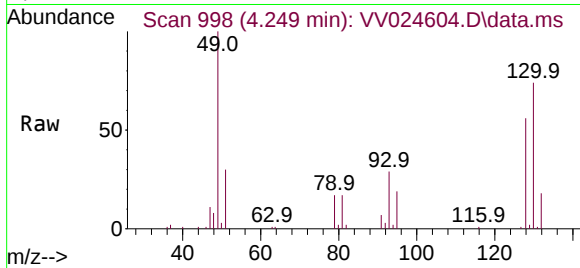




#23
Bromochloromethane
Concen: 5.426 ug/L
RT: 4.249 min Scan# 997
Delta R.T. 0.003 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

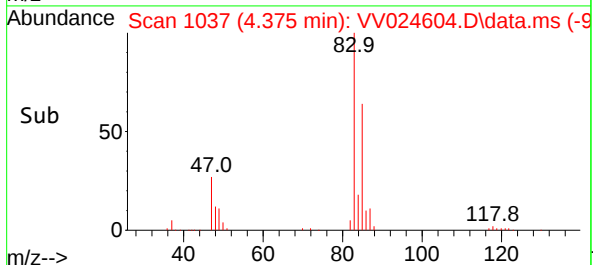
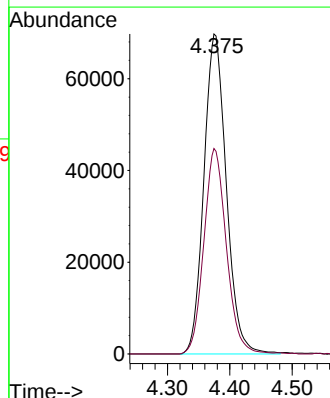
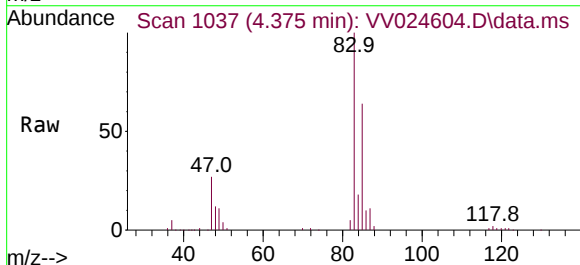
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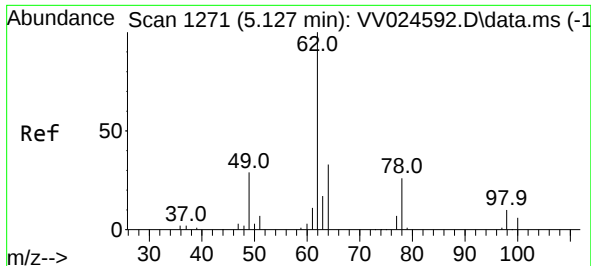
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Ion Ratio Lower Upper
128 100
49 177.7 100.2 186.2
130 131.6 92.5 171.7
51 54.1 39.2 58.8



#25
Chloroform
Concen: 8.306 ug/L
RT: 4.375 min Scan# 1037
Delta R.T. 0.003 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

Tgt Ion: 83 Resp: 174491
Ion Ratio Lower Upper
83 100
85 64.2 45.2 84.0





#27

1,2-Dichloroethane

Concen: 2.152 ug/L

RT: 5.137 min Scan# 1109

Delta R.T. 0.010 min

Lab File: VV024604.D

Acq: 11 Feb 2022 15:14

Instrument :

MSVOA_V

ClientSampleId :

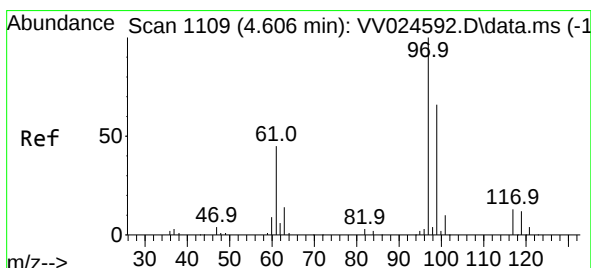
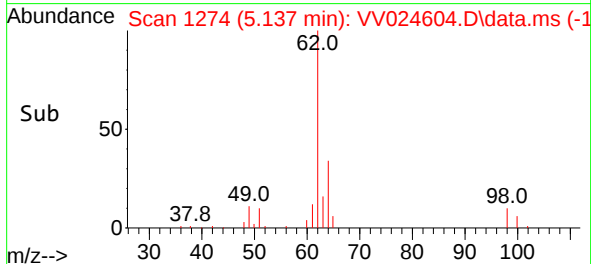
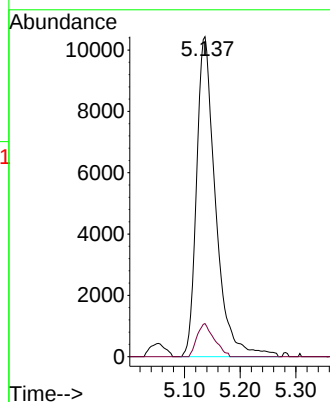
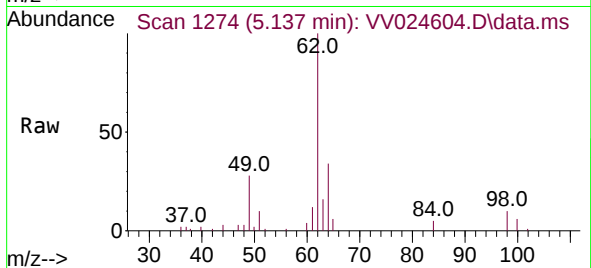
GBCX6

Tgt Ion: 62 Resp: 24784

Ion Ratio Lower Upper

62 100

98 10.4 8.1 12.1



#29

1,1,1-Trichloroethane

Concen: 2.103 ug/L

RT: 4.606 min Scan# 1109

Delta R.T. 0.000 min

Lab File: VV024604.D

Acq: 11 Feb 2022 15:14

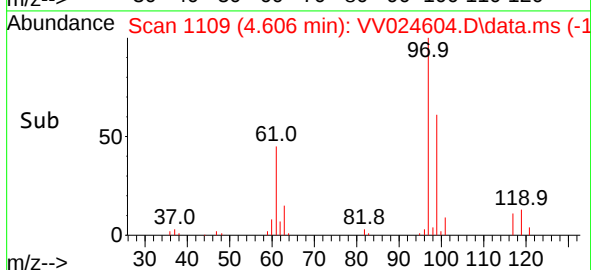
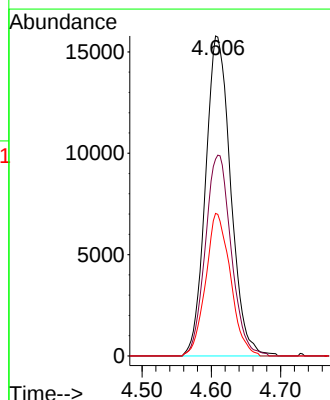
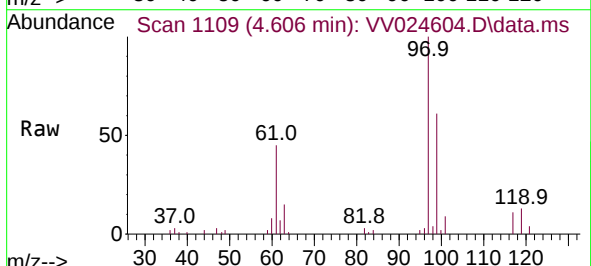
Tgt Ion: 97 Resp: 39741

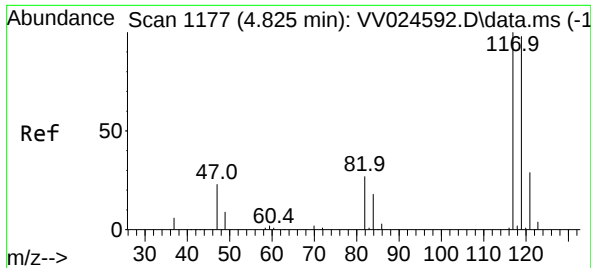
Ion Ratio Lower Upper

97 100

99 64.6 51.9 77.9

61 44.0 33.2 49.8

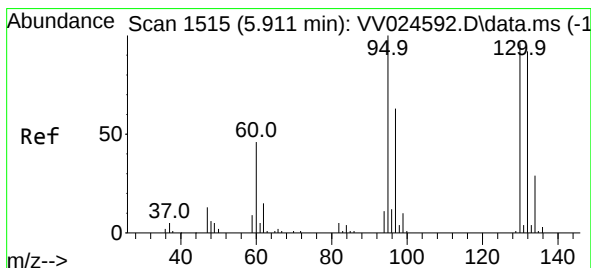
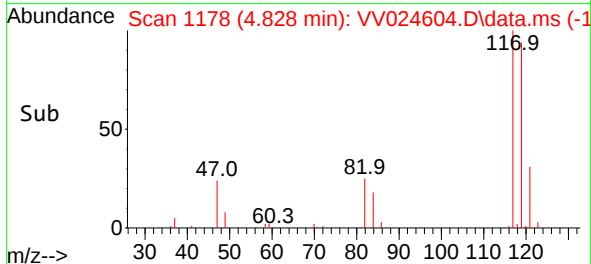
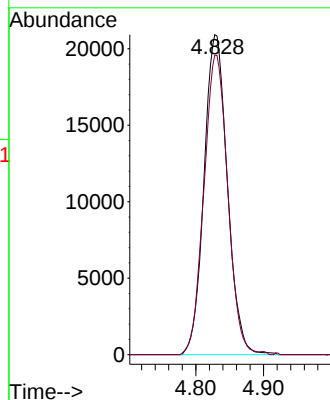
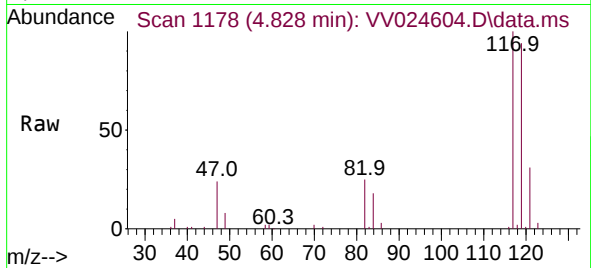




#31
Carbon tetrachloride
Concen: 3.128 ug/L
RT: 4.828 min Scan# 1177
Delta R.T. 0.003 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

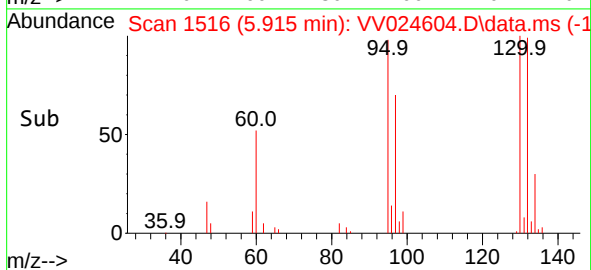
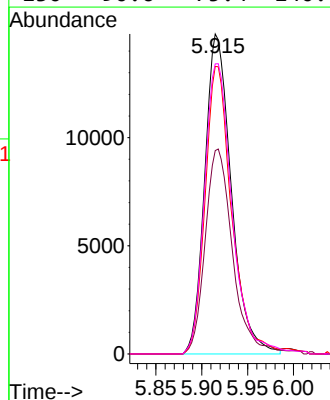
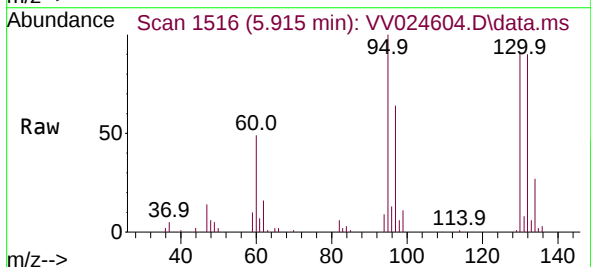
Instrument :
MSVOA_V
ClientSampleId :
GBCX6

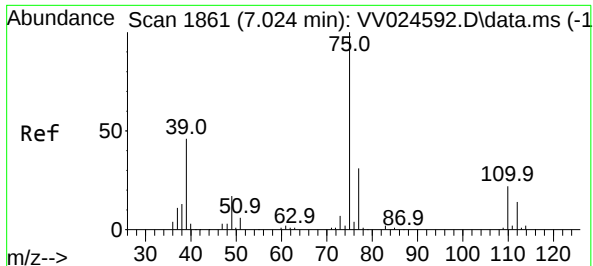
Tgt Ion:117 Resp: 50067
Ion Ratio Lower Upper
117 100
119 95.5 76.6 114.8



#34
Trichloroethene
Concen: 2.410 ug/L
RT: 5.915 min Scan# 1516
Delta R.T. 0.003 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

Tgt Ion: 95 Resp: 29834
Ion Ratio Lower Upper
95 100
97 63.6 45.2 84.0
132 89.8 76.1 141.3
130 90.6 75.4 140.0





#39

cis-1,3-Dichloropropene

Concen: 5.067 ug/L

RT: 7.027 min Scan# 1861

Delta R.T. 0.003 min

Lab File: VV024604.D

Acq: 11 Feb 2022 15:14

Instrument :

MSVOA_V

ClientSampleId :

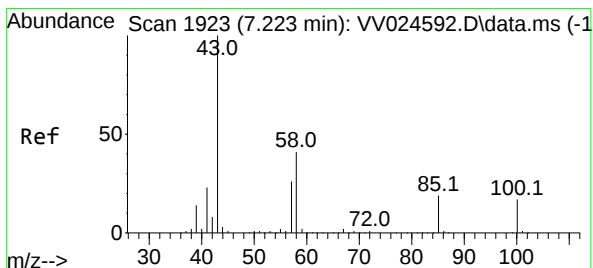
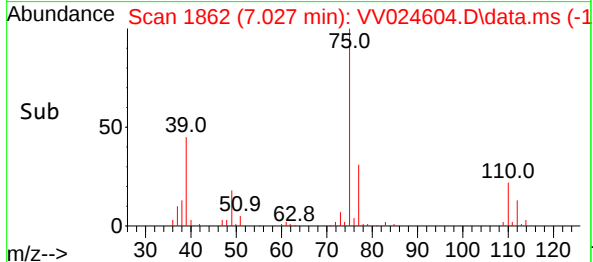
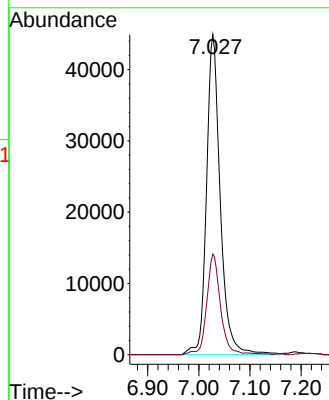
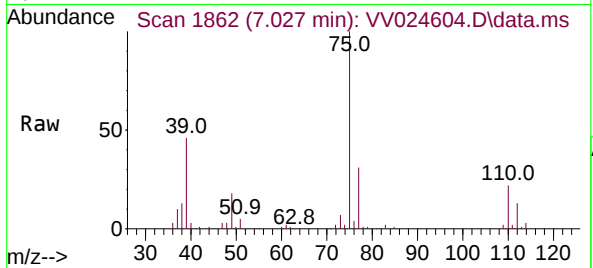
GBCX6

Tgt Ion: 75 Resp: 84145

Ion Ratio Lower Upper

75 100

77 31.4 22.0 41.0



#40

4-Methyl-2-pentanone

Concen: 59.558 ug/L

RT: 7.223 min Scan# 1923

Delta R.T. 0.000 min

Lab File: VV024604.D

Acq: 11 Feb 2022 15:14

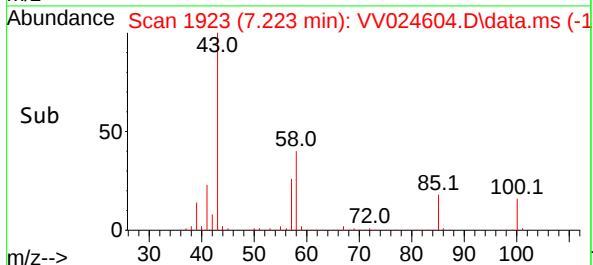
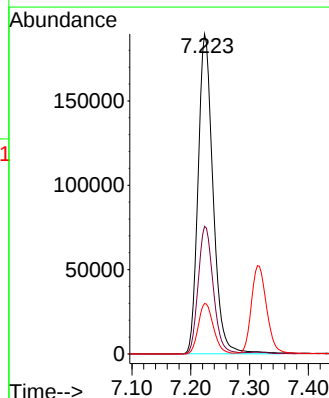
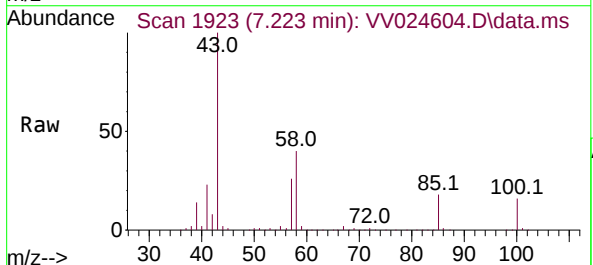
Tgt Ion: 43 Resp: 334929

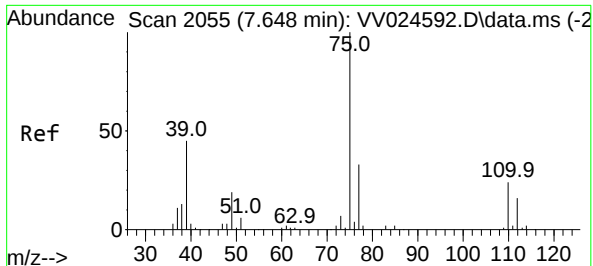
Ion Ratio Lower Upper

43 100

58 40.3 32.3 48.5

100 16.1 13.0 19.6

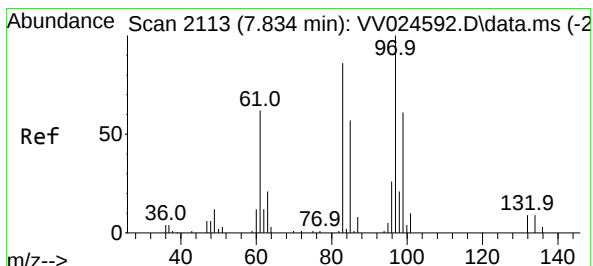
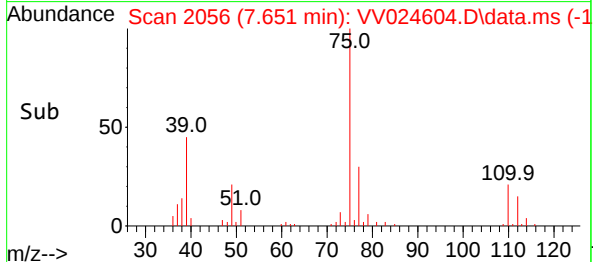
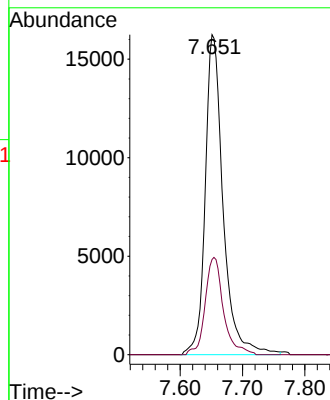
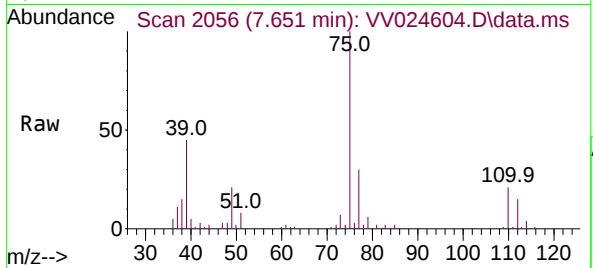




#44
trans-1,3-Dichloropropene
Concen: 2.357 ug/L
RT: 7.651 min Scan# 2056
Delta R.T. 0.003 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

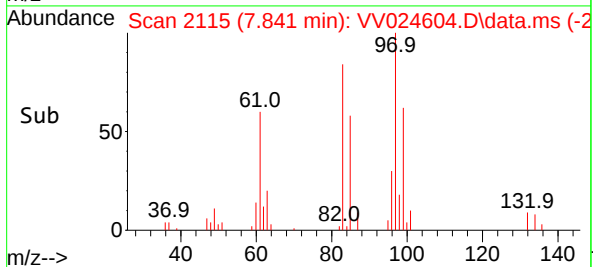
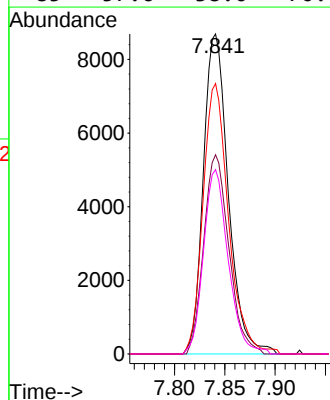
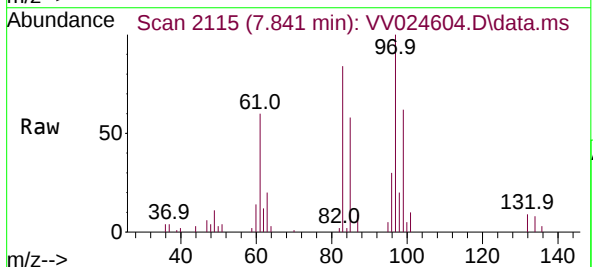
Instrument :
MSVOA_V
ClientSampleId :
GBCX6

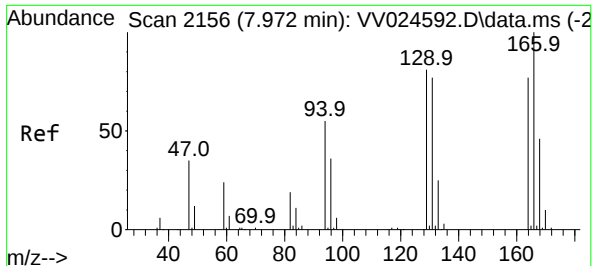
Tgt Ion: 75 Resp: 32337
Ion Ratio Lower Upper
75 100
77 29.8 21.8 40.4



#45
1,1,2-Trichloroethane
Concen: 2.123 ug/L
RT: 7.841 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

Tgt Ion: 97 Resp: 14994
Ion Ratio Lower Upper
97 100
99 62.2 43.1 80.1
83 84.5 57.9 107.5
85 57.6 38.0 70.6





#47

Tetrachloroethene

Concen: 3.184 ug/L

RT: 7.976 min Scan# 2156

Delta R.T. 0.003 min

Lab File: VV024604.D

Acq: 11 Feb 2022 15:14

Instrument :

MSVOA_V

ClientSampleId :

GBCX6

Tgt Ion:164 Resp: 26153

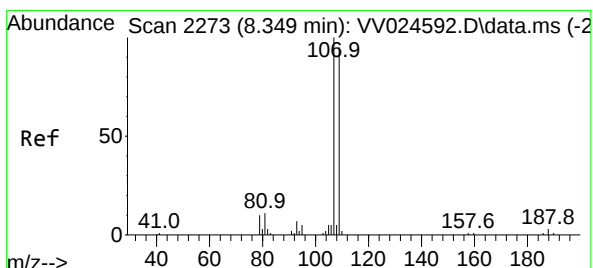
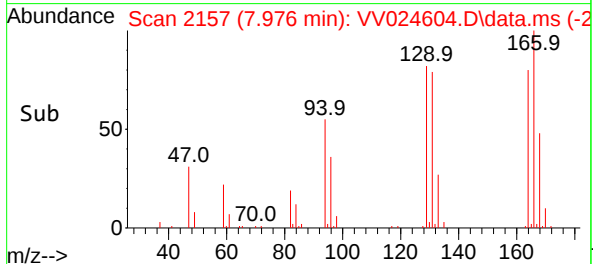
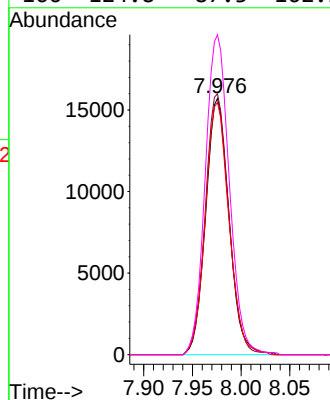
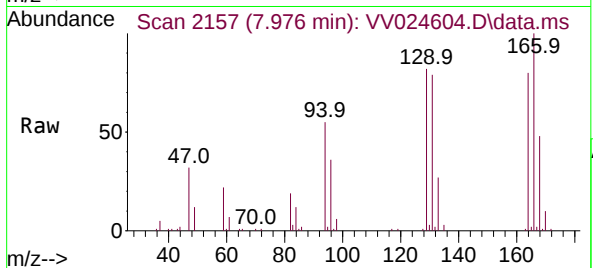
Ion Ratio Lower Upper

164 100

129 101.8 62.6 116.2

131 98.4 61.0 113.4

166 124.8 87.3 162.1



#50

1,2-Dibromoethane

Concen: 5.040 ug/L

RT: 8.352 min Scan# 2274

Delta R.T. 0.003 min

Lab File: VV024604.D

Acq: 11 Feb 2022 15:14

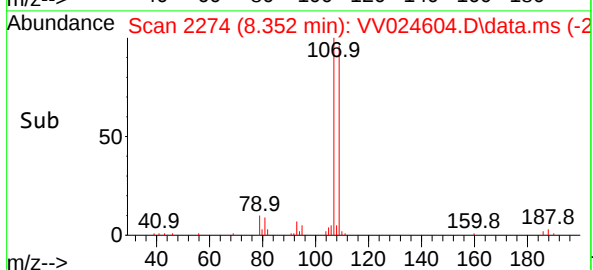
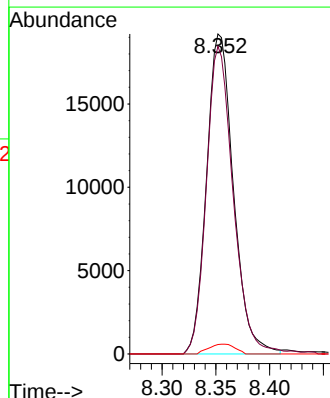
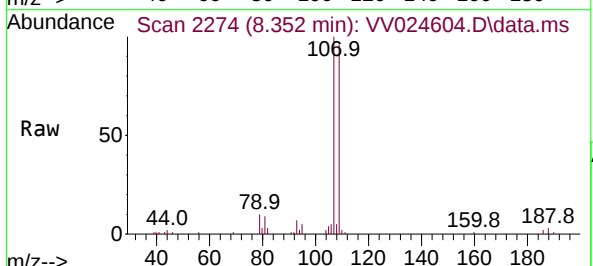
Tgt Ion:107 Resp: 33404

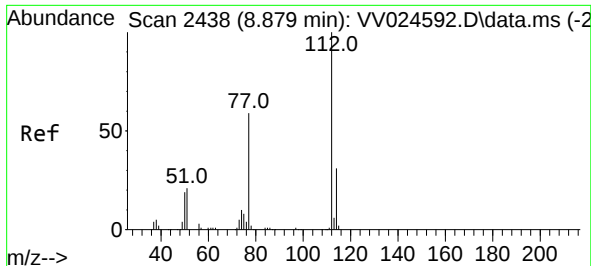
Ion Ratio Lower Upper

107 100

109 96.1 62.5 116.1

188 3.0 3.4 5.2#

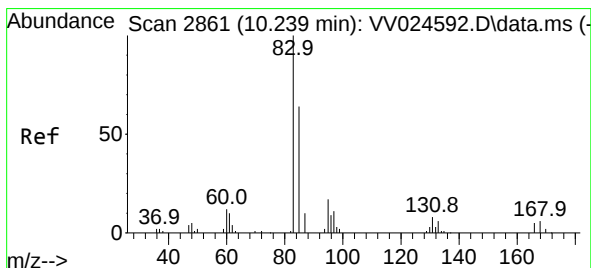
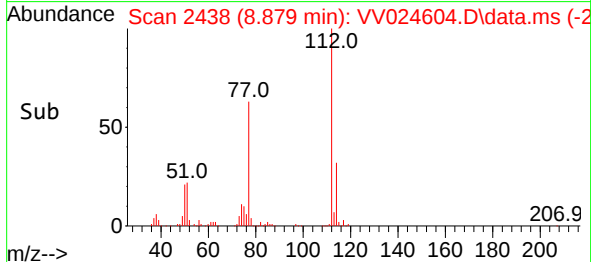
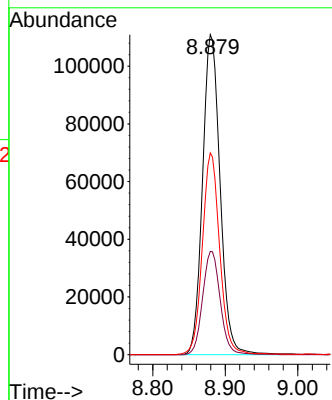
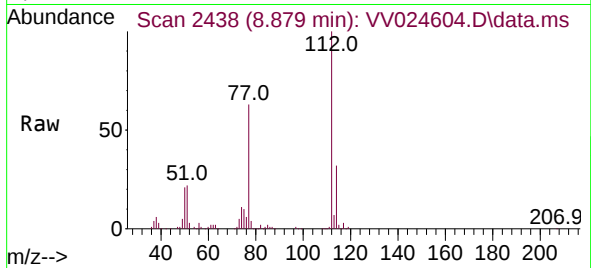




#51
Chlorobenzene
Concen: 6.224 ug/L
RT: 8.879 min Scan# 2438
Delta R.T. 0.000 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

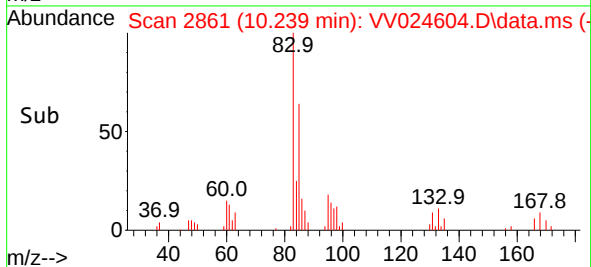
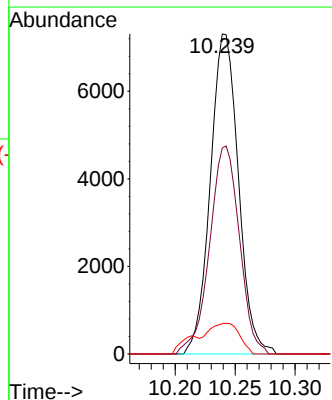
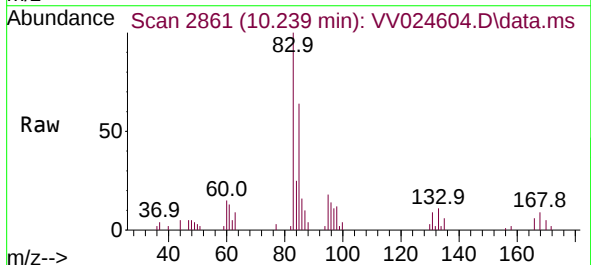
Instrument :
MSVOA_V
ClientSampleId :
GBCX6

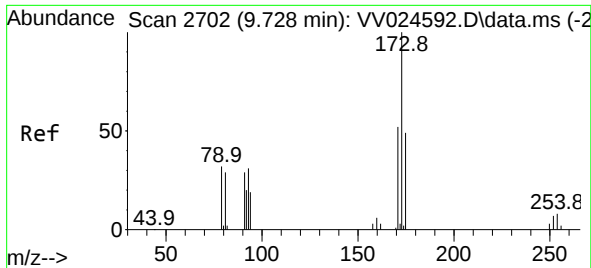
Tgt Ion:112 Resp: 186824
Ion Ratio Lower Upper
112 100
114 32.3 23.3 43.3
77 63.1 43.3 64.9



#57
1,1,2,2-Tetrachloroethane
Concen: 1.663 ug/L
RT: 10.239 min Scan# 2861
Delta R.T. 0.000 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

Tgt Ion: 83 Resp: 11896
Ion Ratio Lower Upper
83 100
85 64.4 44.6 82.8
131 9.5 8.3 12.5





#59

Bromoform

Concen: 2.726 ug/L

RT: 9.731 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV024604.D

Acq: 11 Feb 2022 15:14

Instrument :

MSVOA_V

ClientSampleId :

GBCX6

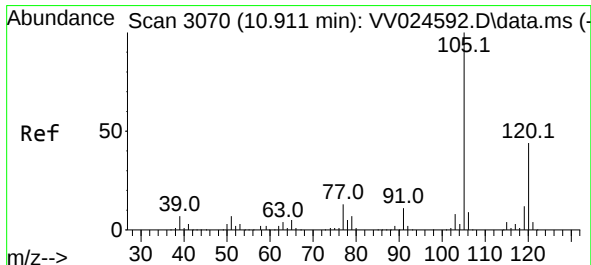
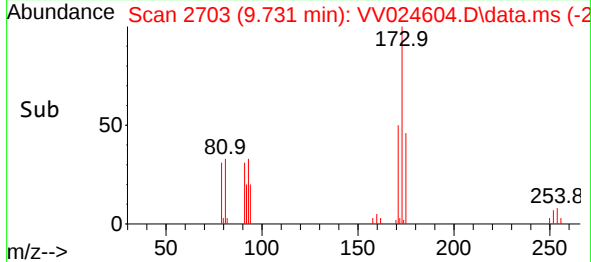
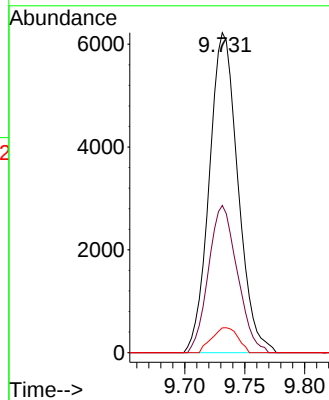
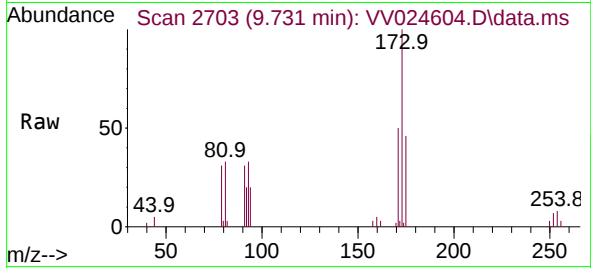
Tgt Ion:173 Resp: 10343

Ion Ratio Lower Upper

173 100

175 46.3 39.4 59.2

254 7.1 7.4 11.0#



#63

1,2,4-Trimethylbenzene

Concen: 4.843 ug/L

RT: 10.911 min Scan# 3070

Delta R.T. 0.000 min

Lab File: VV024604.D

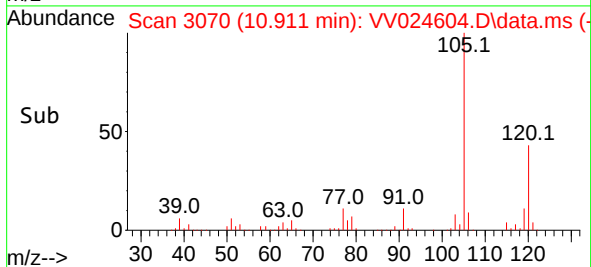
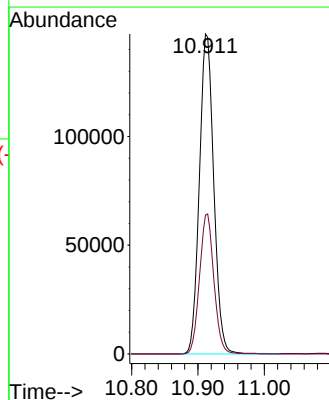
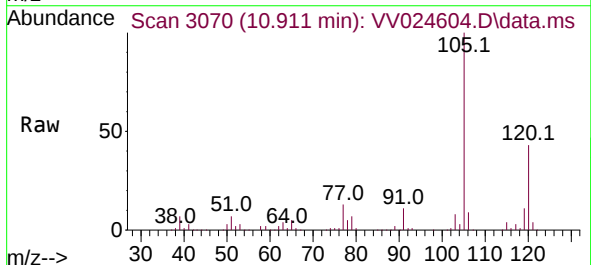
Acq: 11 Feb 2022 15:14

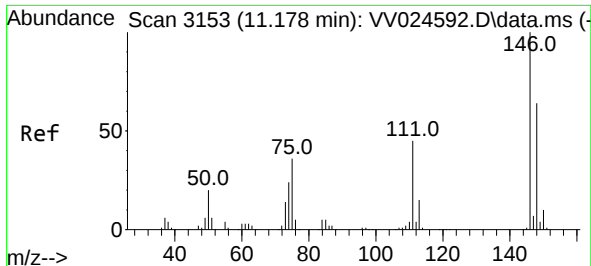
Tgt Ion:105 Resp: 222051

Ion Ratio Lower Upper

105 100

120 43.6 36.7 55.1

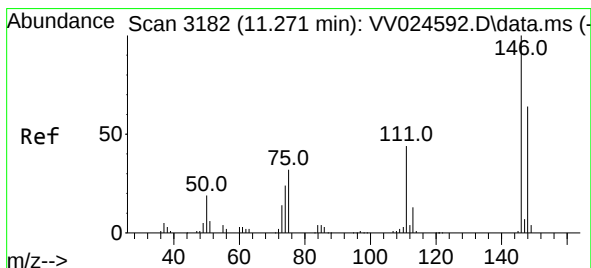
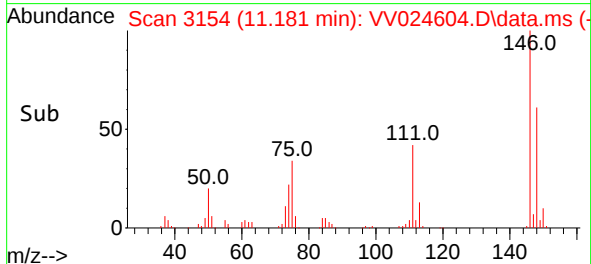
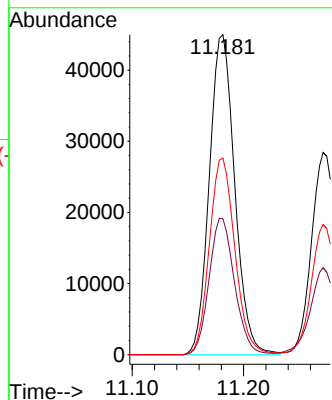
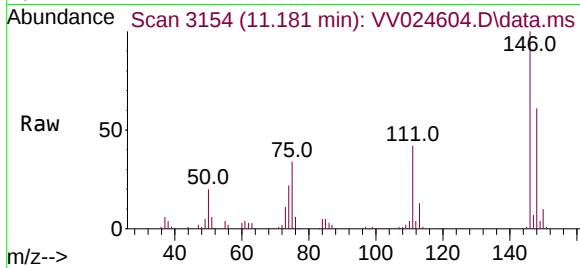




#64
1,3-Dichlorobenzene
Concen: 3.250 ug/L
RT: 11.181 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

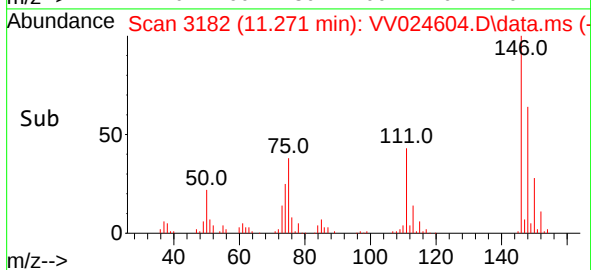
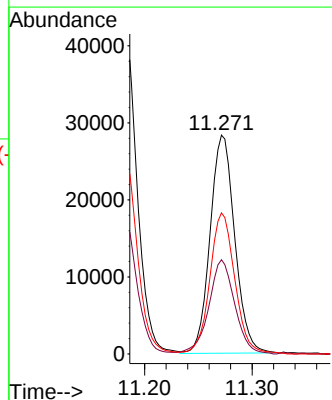
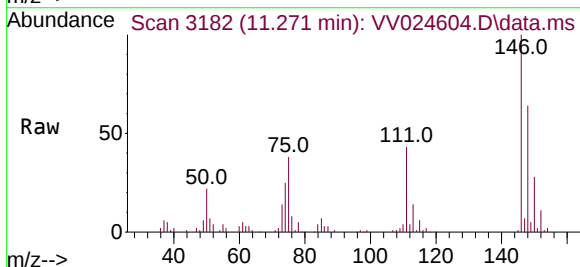
Instrument :
MSVOA_V
ClientSampleId :
GBCX6

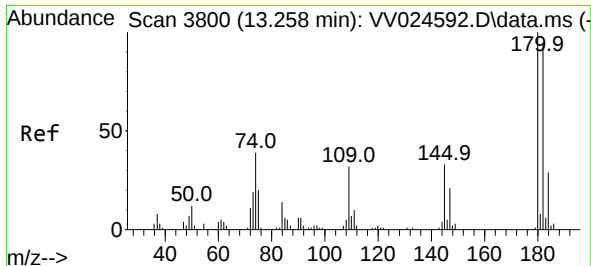
Tgt Ion:146 Resp: 71251
Ion Ratio Lower Upper
146 100
111 42.5 26.3 48.9
148 61.4 44.4 82.5



#65
1,4-Dichlorobenzene
Concen: 2.073 ug/L
RT: 11.271 min Scan# 3182
Delta R.T. 0.000 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

Tgt Ion:146 Resp: 45150
Ion Ratio Lower Upper
146 100
111 43.1 25.6 47.6
148 64.4 44.8 83.2

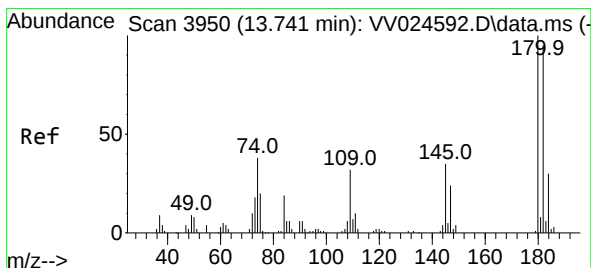
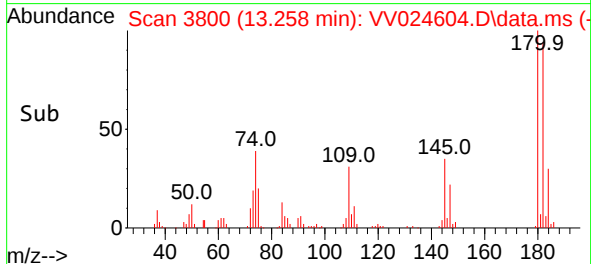
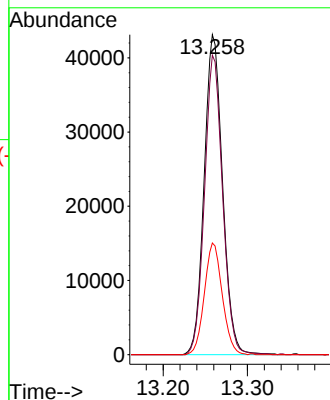
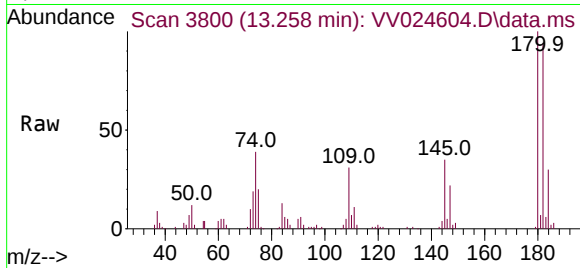




#70
1,2,4-trichlorobenzene
Concen: 5.208 ug/L
RT: 13.258 min Scan# 3800
Delta R.T. 0.000 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

Instrument :
MSVOA_V
ClientSampleId :
GBCX6

Tgt Ion:180 Resp: 65593
Ion Ratio Lower Upper
180 100
182 92.0 74.4 111.6
145 34.0 23.3 34.9



#72
1,2,3-Trichlorobenzene
Concen: 3.113 ug/L
RT: 13.744 min Scan# 3951
Delta R.T. 0.003 min
Lab File: VV024604.D
Acq: 11 Feb 2022 15:14

Tgt Ion:180 Resp: 32984
Ion Ratio Lower Upper
180 100
182 94.1 76.8 115.2
145 35.3 25.8 38.6

