

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122021\
 Data File : VX025919.D
 Acq On : 20 Dec 2021 17:08
 Operator : JC/MD
 Sample : M5150-28
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GBBY4

Quant Time: Dec 21 01:33:35 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML122021WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Dec 21 01:32:07 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.763	114	180256	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.055	117	177453	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.024	152	85571	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.367	65	64316	44.257	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.520%
7) Chloroethane-d5	1.654	69	57184	47.122	ug/L	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.240%
11) 1,1-Dichloroethene-d2	2.306	63	128169	50.778	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.560%
21) 2-Butanone-d5	4.458	46	94073	89.732	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.730%
24) Chloroform-d	5.056	84	131528	47.215	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.420%
26) 1,2-Dichloroethane-d4	5.958	65	83379	45.891	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.780%
32) Benzene-d6	5.970	84	248988	46.313	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.620%
36) 1,2-Dichloropropane-d6	7.311	67	76994	47.020	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.040%
41) Toluene-d8	8.647	98	237066	46.441	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.880%
43) trans-1,3-Dichloroprop...	8.951	79	31820	44.012	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.020%
47) 2-Hexanone-d5	9.390	63	72118	97.975	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.970%
56) 1,1,2,2-Tetrachloroeth...	11.195	84	106427	45.879	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.760%
66) 1,2-Dichlorobenzene-d4	12.323	152	85543	47.426	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.860%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	39378	25.292	ug/L	99
3) Chloromethane	1.294	50	40088	24.986	ug/L	99
5) Vinyl chloride	1.373	62	85588	52.421	ug/L	98
6) Bromomethane	1.599	94	17610	15.199	ug/L	98
8) Chloroethane	1.672	64	30791	28.505	ug/L	99
9) Trichlorofluoromethane	1.879	101	116829	48.478	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.324	101	29038	24.712	ug/L	87
12) 1,1-Dichloroethene	2.312	96	71249	63.123	ug/L	84
16) Methylene chloride	2.788	84	61622	42.567	ug/L	98
17) trans-1,2-Dichloroethene	3.093	96	27368	20.564	ug/L	88
19) 1,1-Dichloroethane	3.611	63	155825	64.921	ug/L	99
20) cis-1,2-Dichloroethene	4.489	96	63899	42.336	ug/L	98
23) Bromochloromethane	4.897	128	31723	40.136	ug/L	92
25) Chloroform	5.092	83	151913	57.923	ug/L	98
27) 1,2-Dichloroethane	6.086	62	146755	69.809	ug/L	98
30) 1,1,1-Trichloroethane	5.379	97	46094	21.161	ug/L	98
31) Carbon tetrachloride	5.671	117	114303	61.594	ug/L	100
33) Benzene	6.037	78	261630	46.867	ug/L	100
34) Trichloroethene	7.122	95	120669	83.087	ug/L	90

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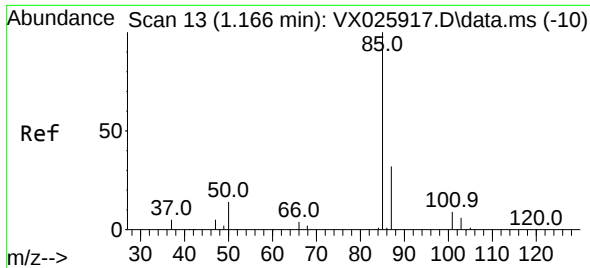
Instrument :
 MSVOA_X
 ClientSampleId :
 GBBY4

Quant Time: Dec 21 01:33:35 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML122021WMA.M
 Quant Title : VOC Analysis
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 Response via : Initial Calibration

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

37) 1,2-Dichloropropane	7.433	63	55919	40.401	ug/L	99
38) Bromodichloromethane	7.824	83	36579	19.520	ug/L	99
39) cis-1,3-Dichloropropene	8.366	75	50210	24.520	ug/L	99
44) trans-1,3-Dichloropropene	8.976	75	84321	43.849	ug/L	99
45) 1,1,2-Trichloroethane	9.153	97	36845	25.558	ug/L	99
46) Tetrachloroethene	9.274	164	80055	71.882	ug/L	95
49) Dibromochloromethane	9.524	129	55696	36.951	ug/L	98
50) 1,2-Dibromoethane	9.610	107	45594	29.897	ug/L	99
57) 1,1,2,2-Tetrachloroethane	11.213	83	82178	36.501	ug/L	98
59) Bromoform	10.805	173	45253	47.325	ug/L	99
63) 1,2,4-Trimethylbenzene	11.756	105	271597	52.850	ug/L #	81
68) 1,2-Dibromo-3-chloropr...	12.945	75	15942	39.581	ug/L	83

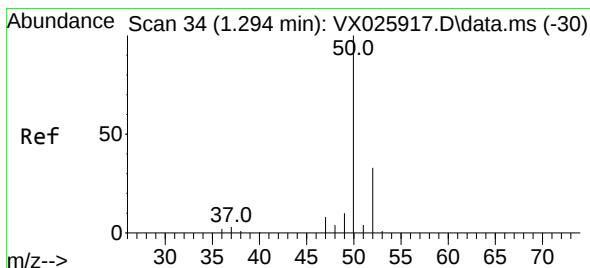
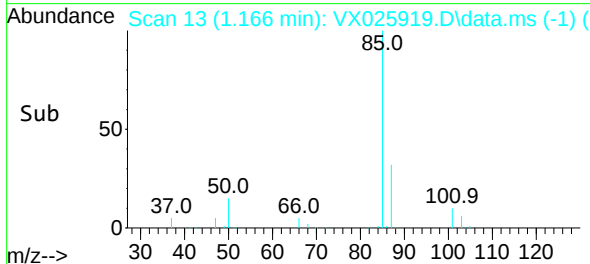
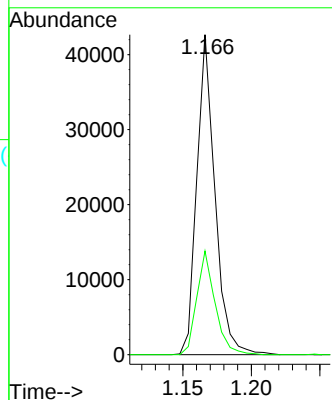
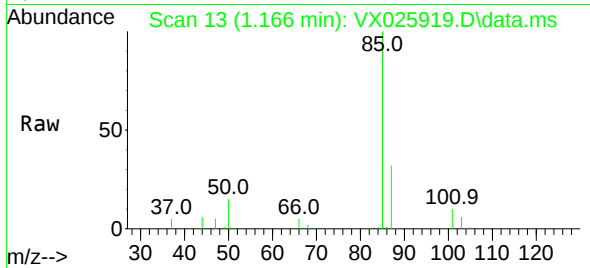
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
 Dichlorodifluoromethane
 Concen: 25.292 ug/L
 RT: 1.166 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX025919.D
 Acq: 20 Dec 2021 17:08

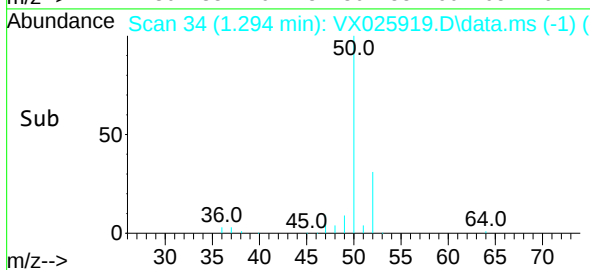
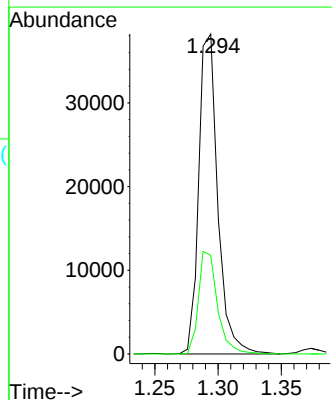
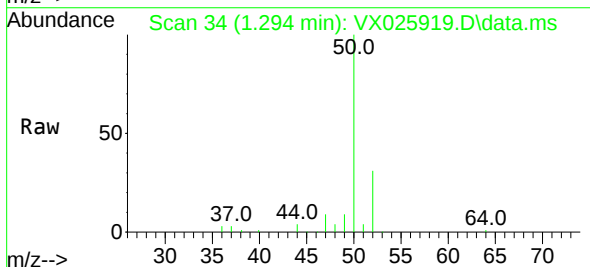
Instrument :
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 ClientSampleId :
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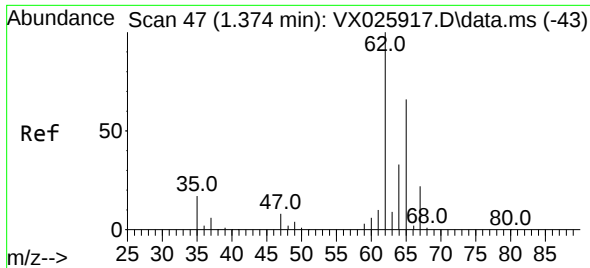
Tgt Ion: 85 Resp: 39378
 Ion Ratio Lower Upper
 85 100
 87 32.8 25.8 38.6



#3
 Chloromethane
 Concen: 24.986 ug/L
 RT: 1.294 min Scan# 34
 Delta R.T. -0.000 min
 Lab File: VX025919.D
 Acq: 20 Dec 2021 17:08

Tgt Ion: 50 Resp: 40088
 Ion Ratio Lower Upper
 50 100
 52 30.9 22.0 40.8

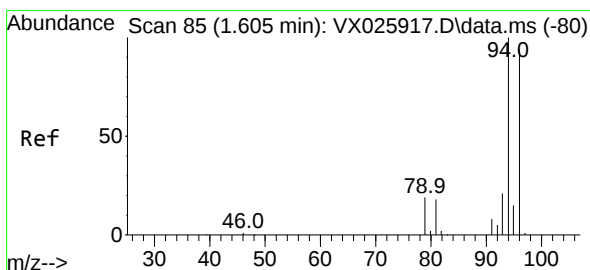
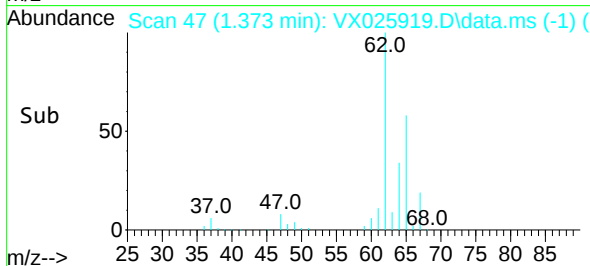
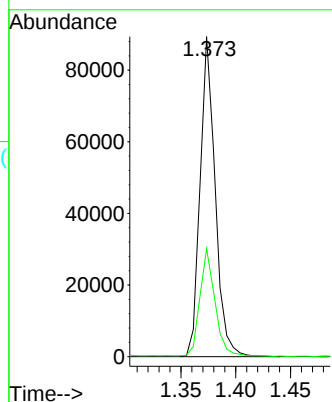
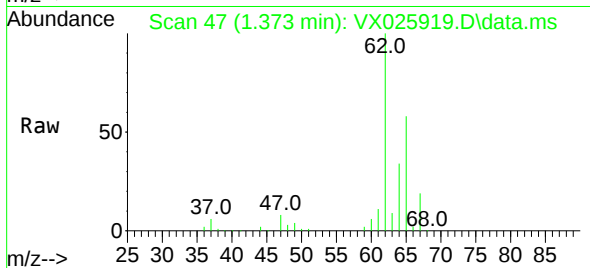




#5
 Vinyl chloride
 Concen: 52.421 ug/L
 RT: 1.373 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VX025919.D
 Acq: 20 Dec 2021 17:08

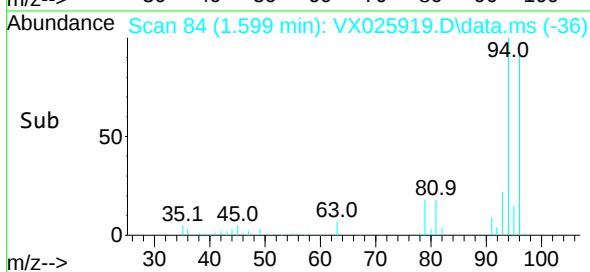
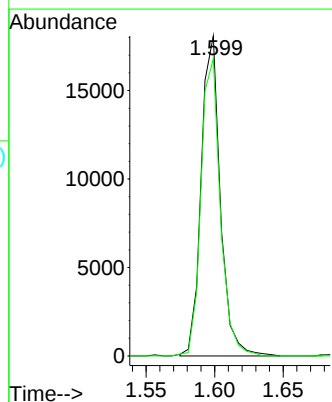
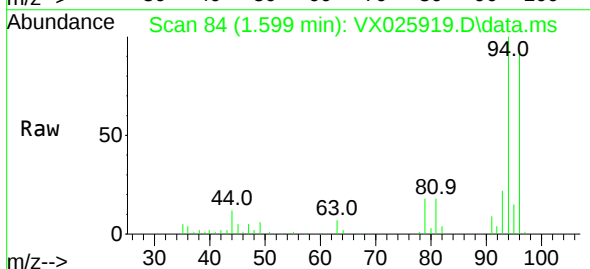
Instrument :
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 ClientSampleId :
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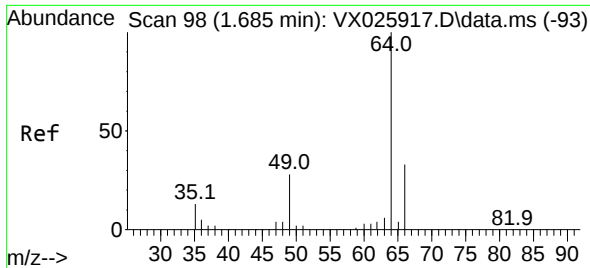
Tgt Ion: 62 Resp: 85588
 Ion Ratio Lower Upper
 62 100
 64 33.8 22.9 42.5



#6
 Bromomethane
 Concen: 15.199 ug/L
 RT: 1.599 min Scan# 84
 Delta R.T. -0.006 min
 Lab File: VX025919.D
 Acq: 20 Dec 2021 17:08

Tgt Ion: 94 Resp: 17610
 Ion Ratio Lower Upper
 94 100
 96 92.9 66.7 123.9

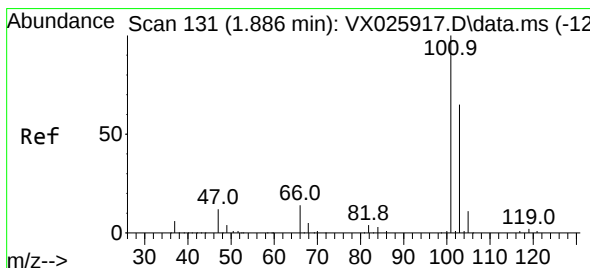
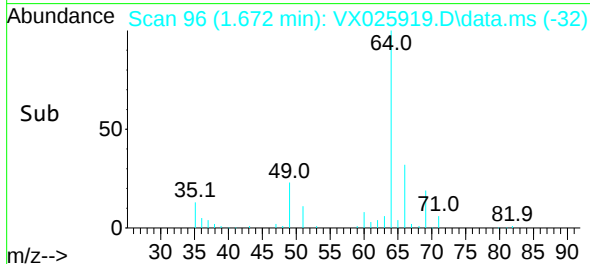
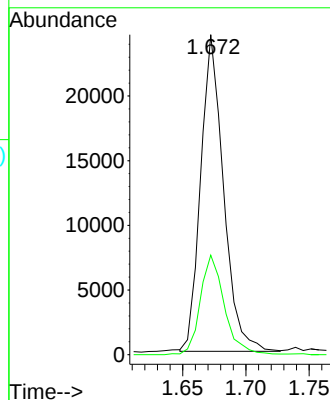
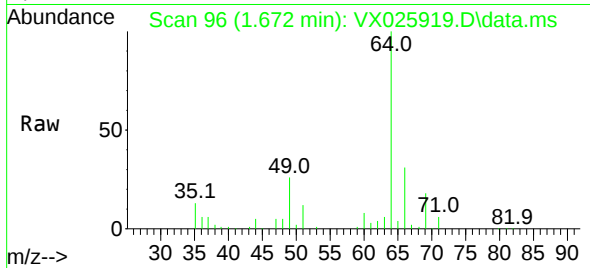




#8
Chloroethane
Concen: 28.505 ug/L
RT: 1.672 min Scan# 90
Delta R.T. -0.012 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

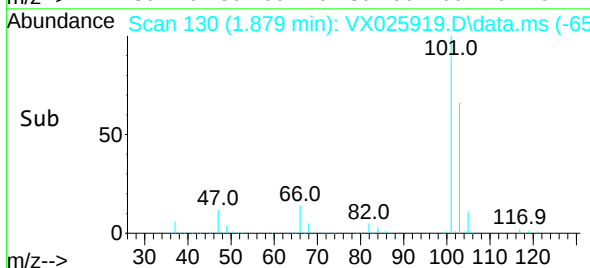
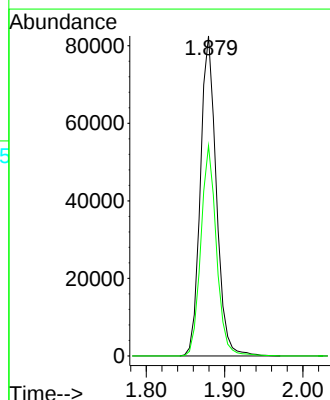
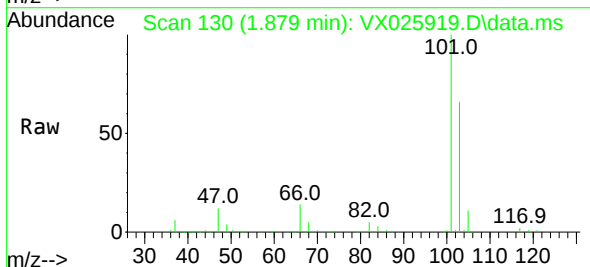
Instrument :
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ClientSampleId :
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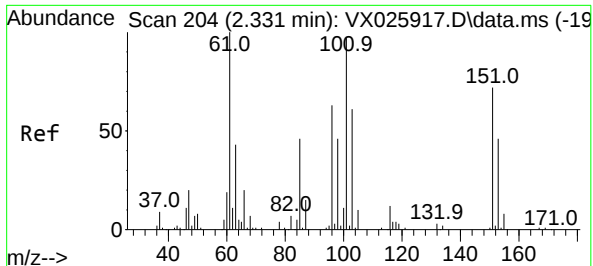
Tgt Ion: 64 Resp: 30791
Ion Ratio Lower Upper
64 100
66 31.1 22.0 40.8



#9
Trichlorofluoromethane
Concen: 48.478 ug/L
RT: 1.879 min Scan# 130
Delta R.T. -0.006 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

Tgt Ion: 101 Resp: 116829
Ion Ratio Lower Upper
101 100
103 64.3 52.2 78.2

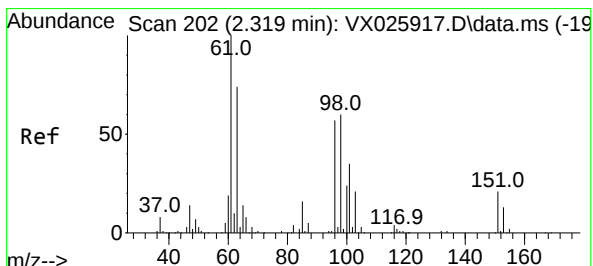
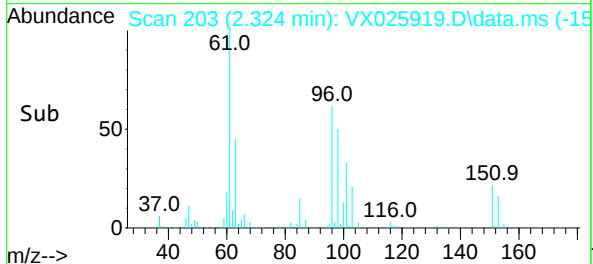
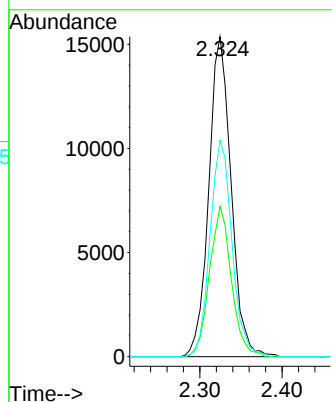
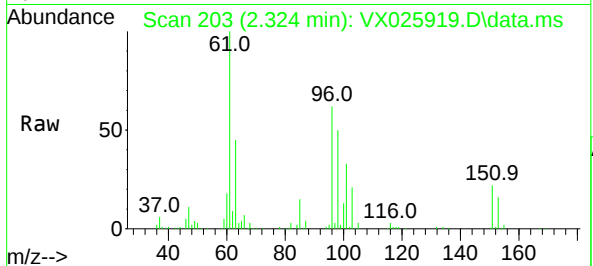




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 24.712 ug/L
RT: 2.324 min Scan# 20
Delta R.T. -0.006 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

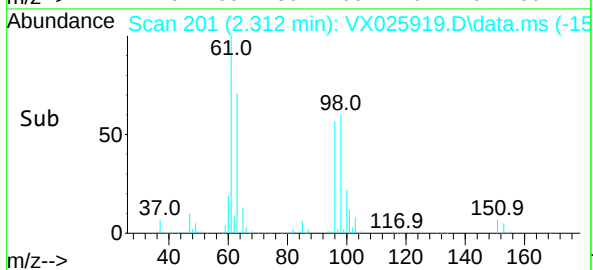
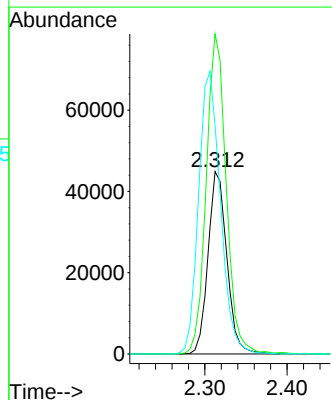
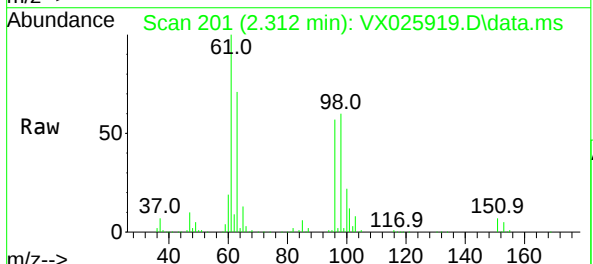
Instrument :
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ClientSampleId :
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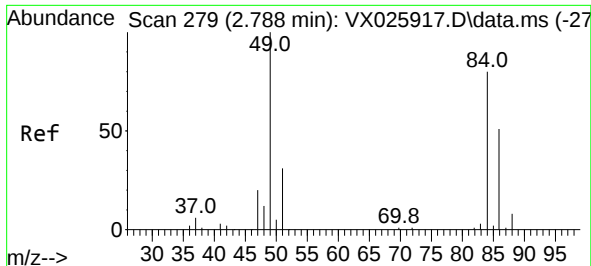
Tgt Ion:101 Resp: 29038
Ion Ratio Lower Upper
101 100
85 45.7 34.3 51.5
151 66.5 65.2 97.8



#12
1,1-Dichloroethene
Concen: 63.123 ug/L
RT: 2.312 min Scan# 201
Delta R.T. -0.006 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

Tgt Ion: 96 Resp: 71249
Ion Ratio Lower Upper
96 100
61 175.5 108.7 201.9
63 125.3 76.3 141.7

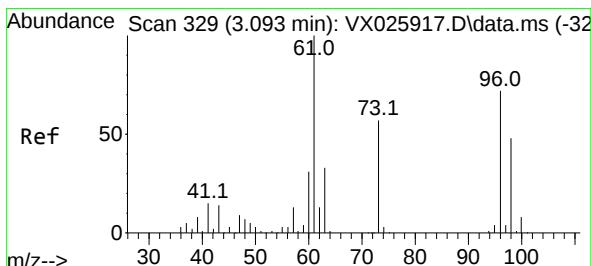
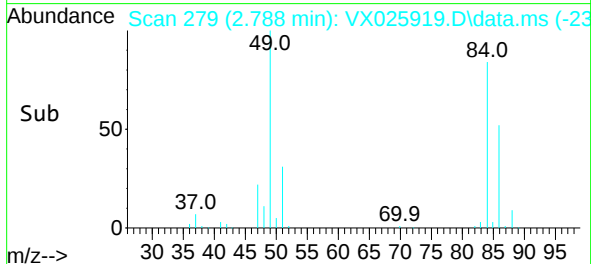
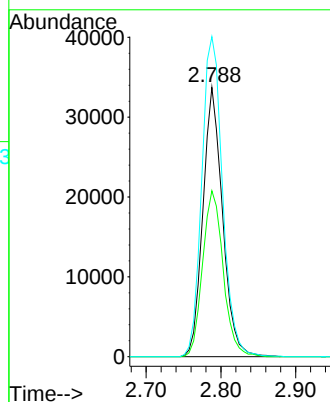
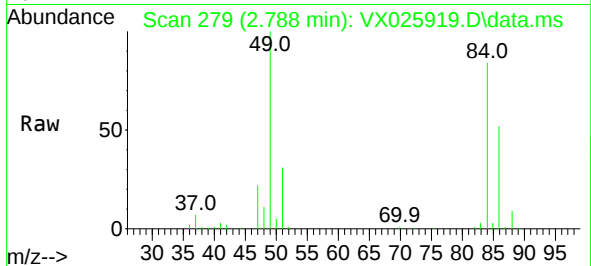




#16
Methylene chloride
Concen: 42.567 ug/L
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

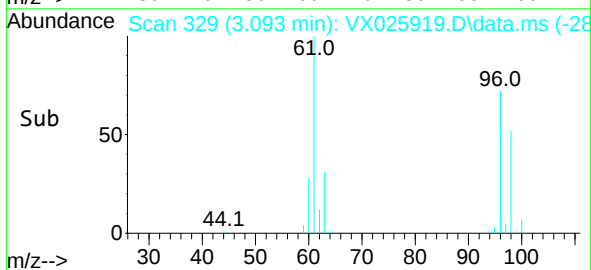
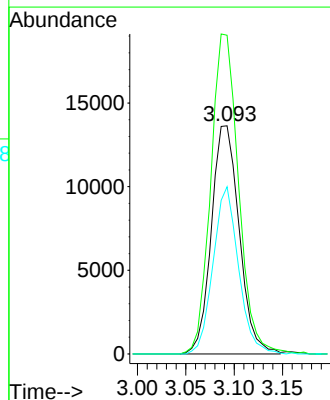
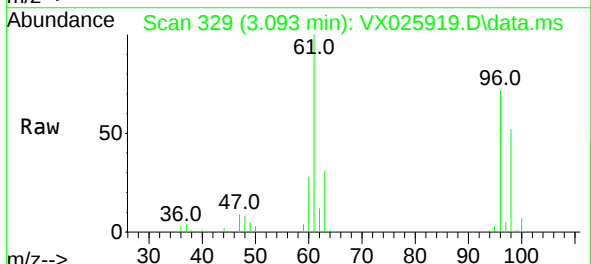
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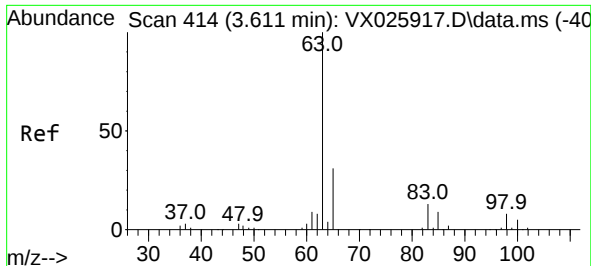
Tgt Ion: 84 Resp: 61622
Ion Ratio Lower Upper
84 100
86 61.6 45.1 83.9
49 118.8 82.3 152.8



#17
trans-1,2-Dichloroethene
Concen: 20.564 ug/L
RT: 3.093 min Scan# 329
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

Tgt Ion: 96 Resp: 27368
Ion Ratio Lower Upper
96 100
61 139.7 88.5 164.4
98 73.3 44.3 82.3





#19

1,1-Dichloroethane

Concen: 64.921 ug/L

RT: 3.611 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX025919.D

Acq: 20 Dec 2021 17:08

Instrument :

MSVOA_X

ClientSampleId :

GBBY4

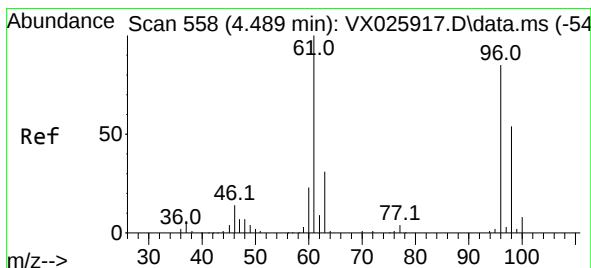
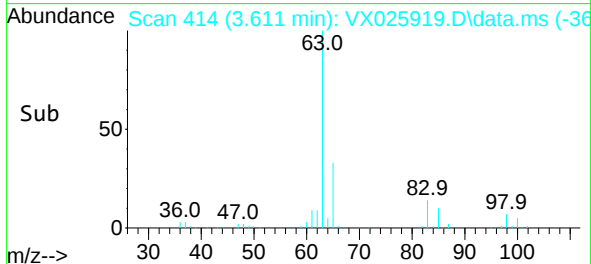
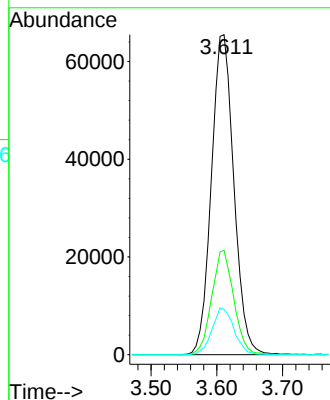
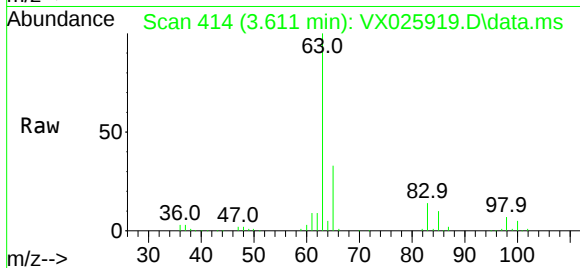
Tgt Ion: 63 Resp: 155825

Ion Ratio Lower Upper

63 100

65 32.6 22.2 41.2

83 14.2 10.2 19.0



#20

cis-1,2-Dichloroethene

Concen: 42.336 ug/L

RT: 4.489 min Scan# 558

Delta R.T. -0.000 min

Lab File: VX025919.D

Acq: 20 Dec 2021 17:08

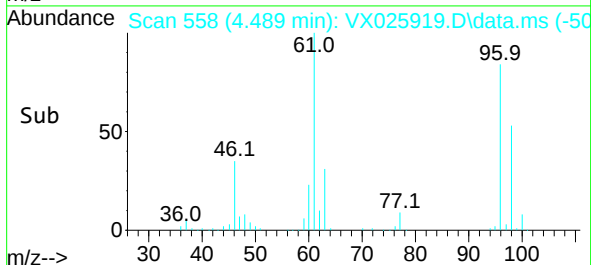
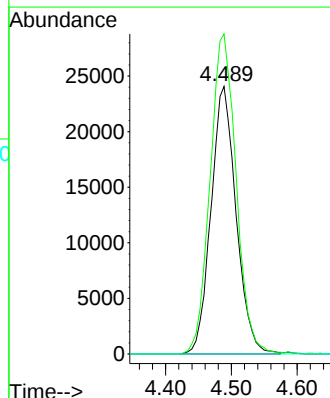
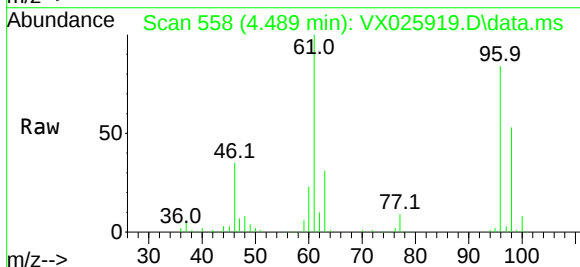
Tgt Ion: 96 Resp: 63899

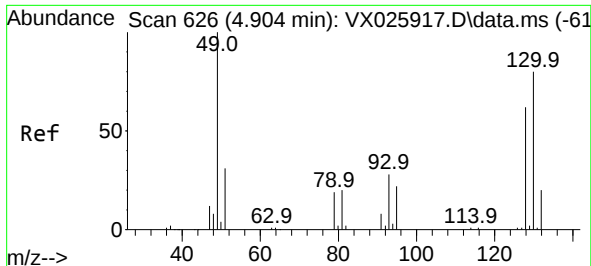
Ion Ratio Lower Upper

96 100

61 119.6 82.3 152.8

68 0.0 0.0 0.0

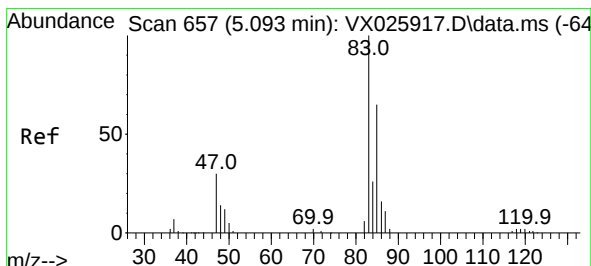
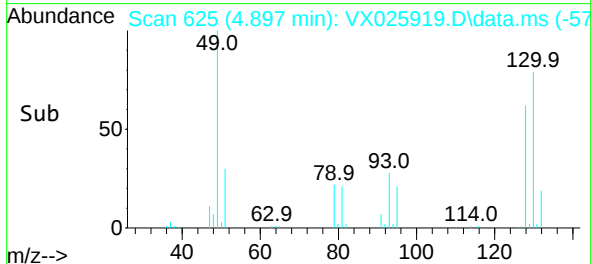
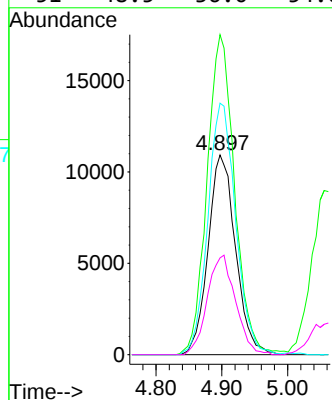
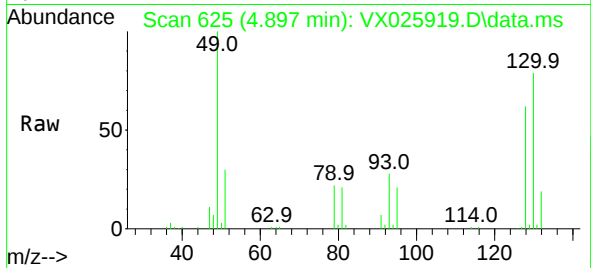




#23
Bromochloromethane
Concen: 40.136 ug/L
RT: 4.897 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

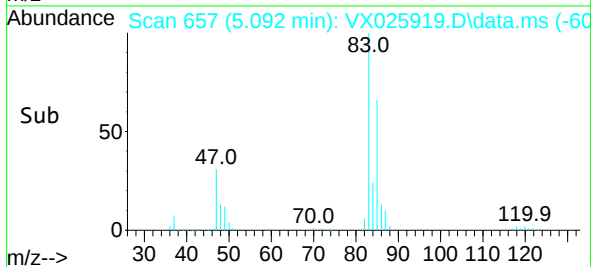
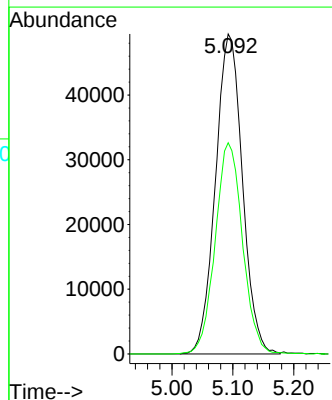
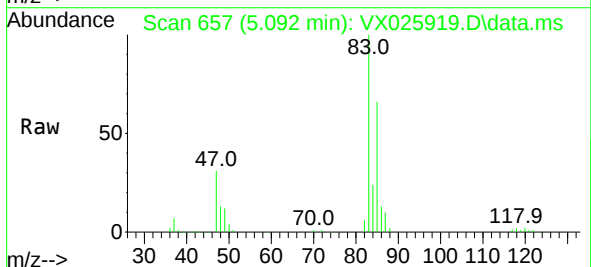
Instrument :
MSVOA_X
ClientSampleId :
GBBY4

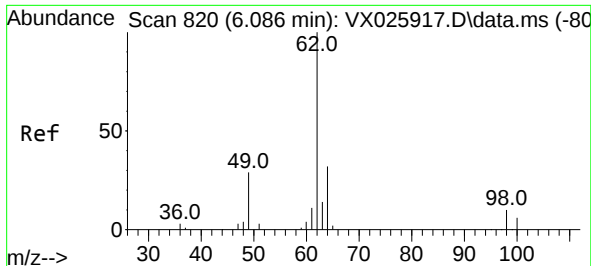
Tgt Ion:128 Resp: 31723
Ion Ratio Lower Upper
128 100
49 160.3 97.7 181.5
130 126.0 88.2 163.8
51 48.5 36.0 54.0



#25
Chloroform
Concen: 57.923 ug/L
RT: 5.092 min Scan# 657
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

Tgt Ion: 83 Resp: 151913
Ion Ratio Lower Upper
83 100
85 66.0 44.9 83.5





#27

1,2-Dichloroethane

Concen: 69.809 ug/L

RT: 6.086 min Scan# 81

Delta R.T. -0.000 min

Lab File: VX025919.D

Acq: 20 Dec 2021 17:08

Instrument :

MSVOA_X

ClientSampleId :

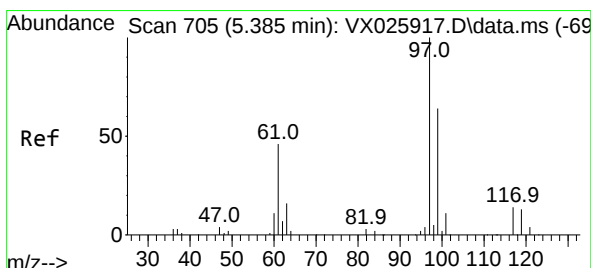
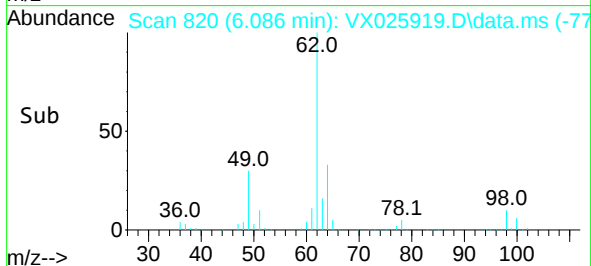
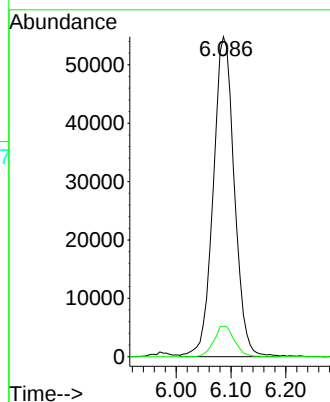
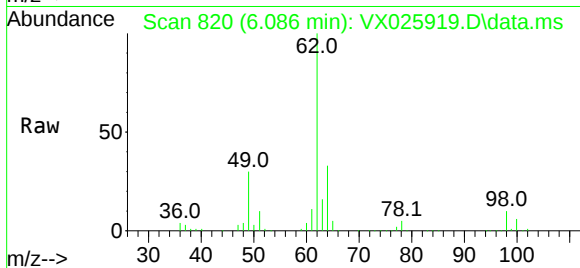
GBBY4

Tgt Ion: 62 Resp: 146755

Ion Ratio Lower Upper

62 100

98 9.6 8.2 12.2



#30

1,1,1-Trichloroethane

Concen: 21.161 ug/L

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX025919.D

Acq: 20 Dec 2021 17:08

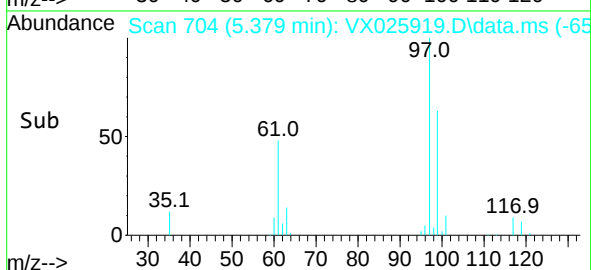
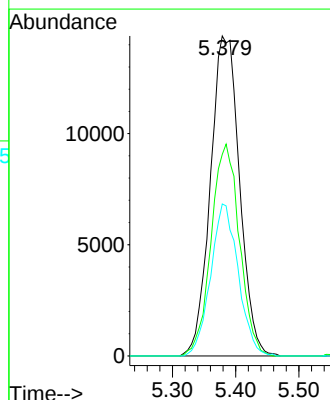
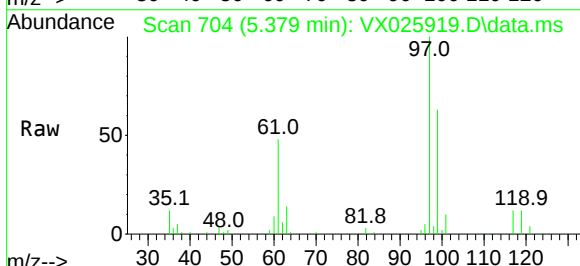
Tgt Ion: 97 Resp: 46094

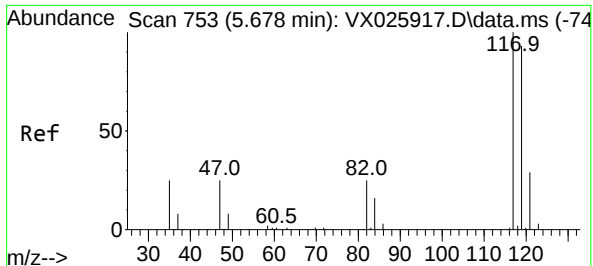
Ion Ratio Lower Upper

97 100

99 64.3 51.5 77.3

61 45.0 33.1 49.7

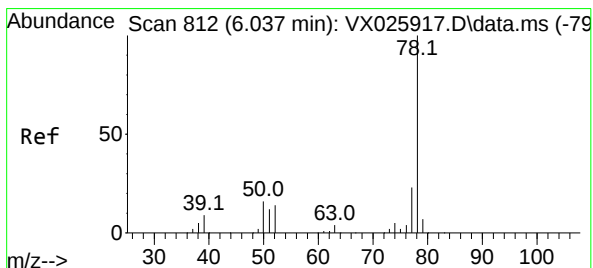
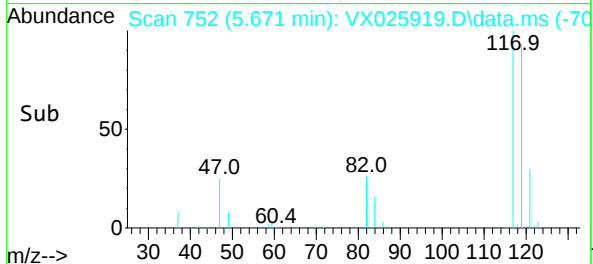
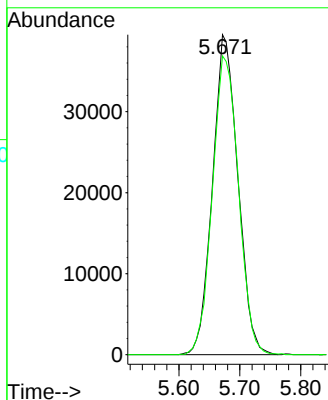
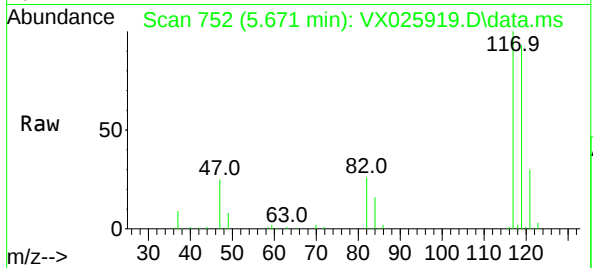




#31
Carbon tetrachloride
Concen: 61.594 ug/L
RT: 5.671 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

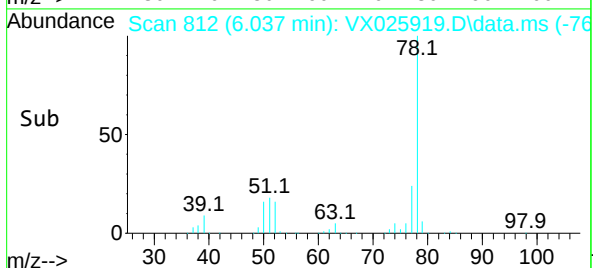
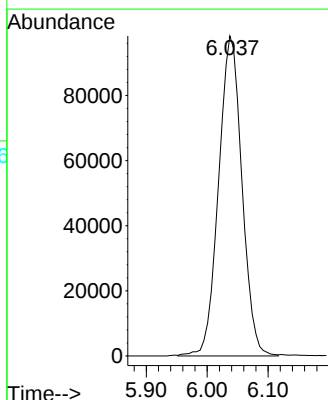
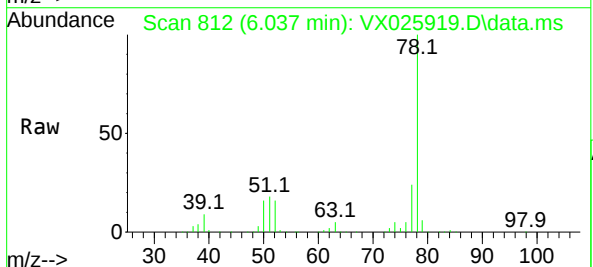
Instrument :
MSVOA_X
ClientSampleId :
GBBY4

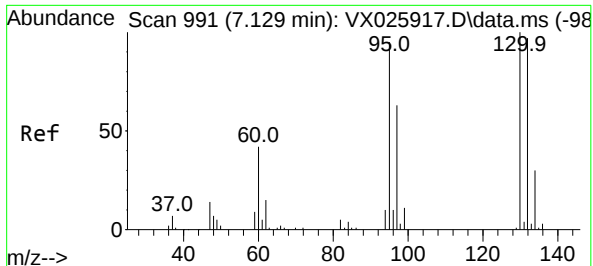
Tgt Ion:117 Resp: 114303
Ion Ratio Lower Upper
117 100
119 96.3 76.8 115.2



#33
Benzene
Concen: 46.867 ug/L
RT: 6.037 min Scan# 812
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

Tgt Ion: 78 Resp: 261630





#34

Trichloroethene

Concen: 83.087 ug/L

RT: 7.122 min Scan# 991

Delta R.T. -0.006 min

Lab File: VX025919.D

Acq: 20 Dec 2021 17:08

Instrument :

MSVOA_X

ClientSampleId :

GBBY4

Tgt Ion: 95 Resp: 120669

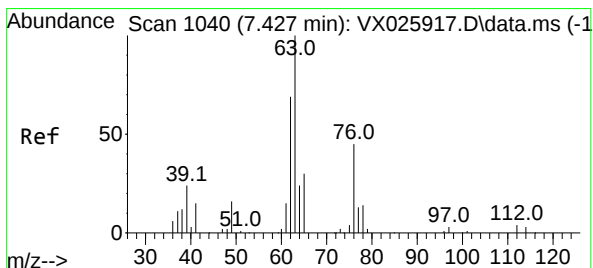
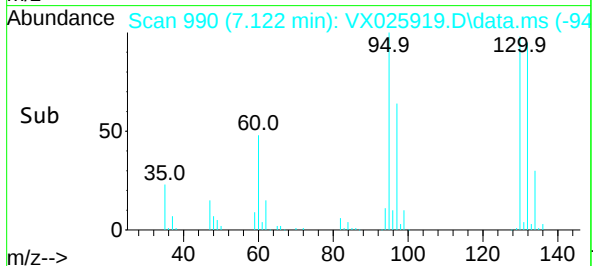
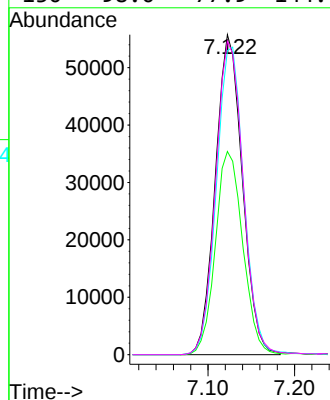
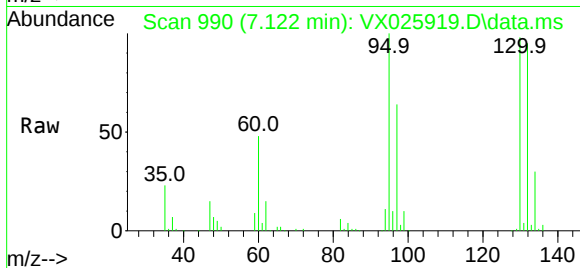
Ion Ratio Lower Upper

95 100

97 63.5 46.0 85.4

132 95.0 75.0 139.2

130 98.0 77.9 144.7



#37

1,2-Dichloropropane

Concen: 40.401 ug/L

RT: 7.433 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VX025919.D

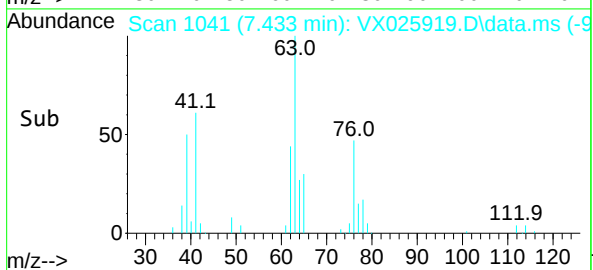
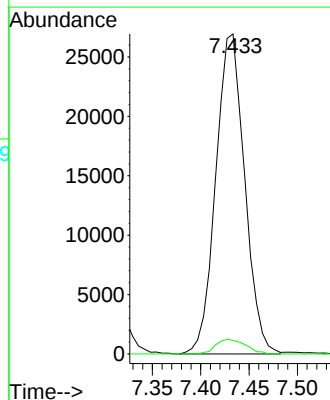
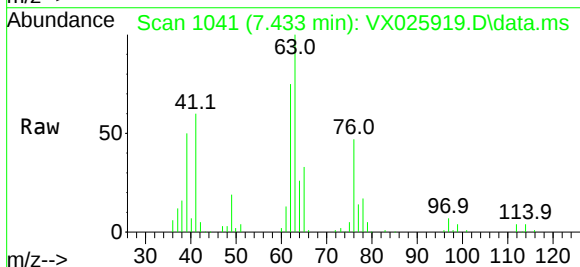
Acq: 20 Dec 2021 17:08

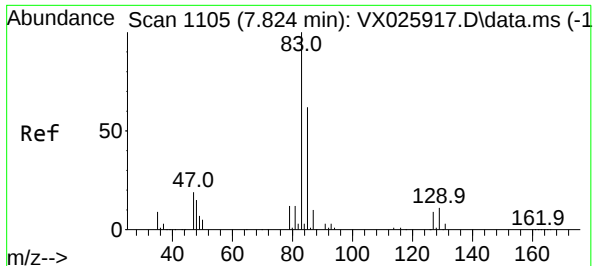
Tgt Ion: 63 Resp: 55919

Ion Ratio Lower Upper

63 100

112 4.7 4.0 6.0

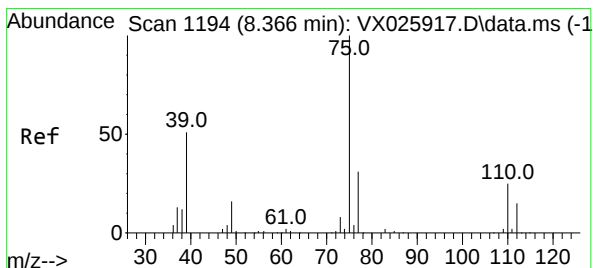
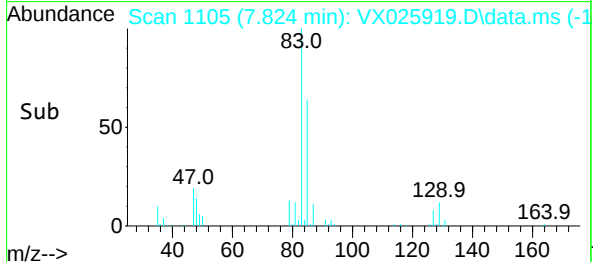
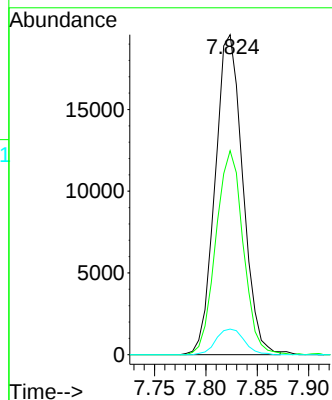
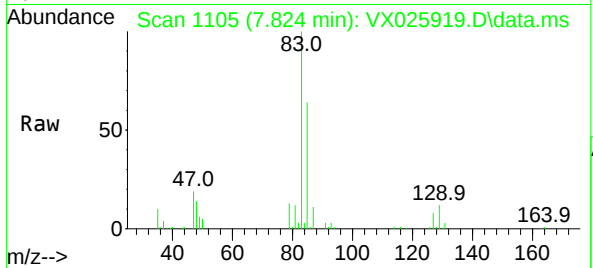




#38
Bromodichloromethane
Concen: 19.520 ug/L
RT: 7.824 min Scan# 1105
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

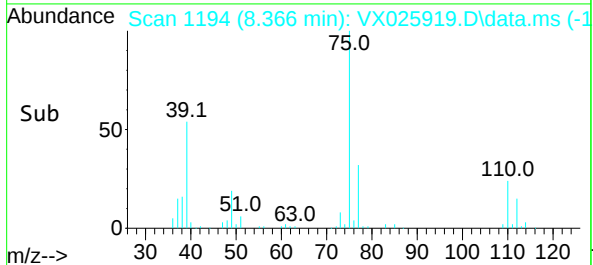
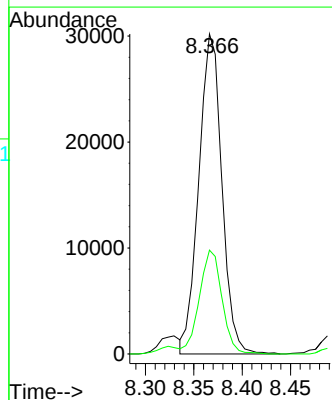
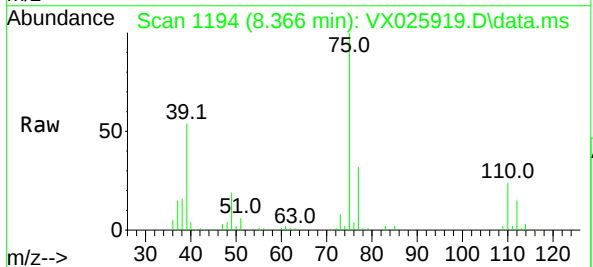
Instrument :
MSVOA_X
ClientSampleId :
GBBY4

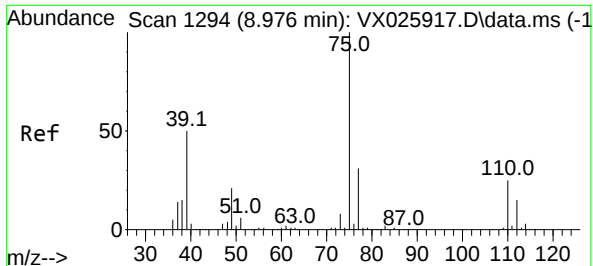
Tgt Ion: 83 Resp: 36579
Ion Ratio Lower Upper
83 100
85 63.8 45.3 84.1
127 8.0 7.3 10.9



#39
cis-1,3-Dichloropropene
Concen: 24.520 ug/L
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

Tgt Ion: 75 Resp: 50210
Ion Ratio Lower Upper
75 100
77 32.4 22.3 41.3

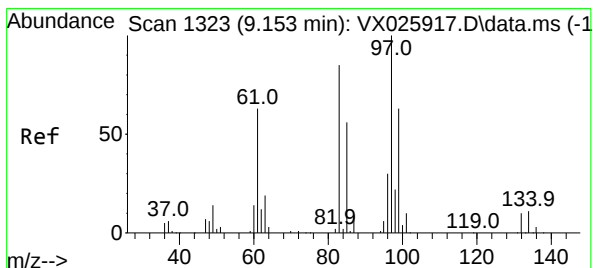
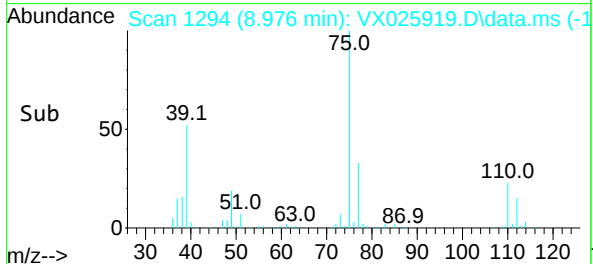
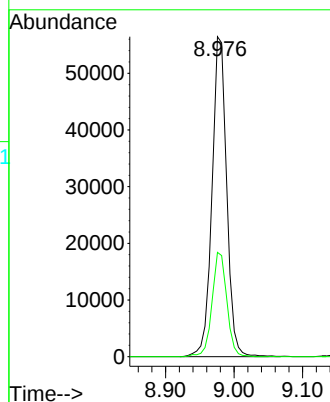
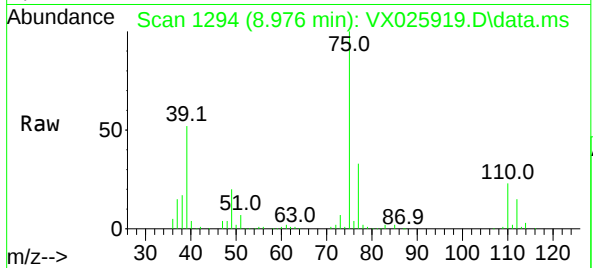




#44
trans-1,3-Dichloropropene
Concen: 43.849 ug/L
RT: 8.976 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

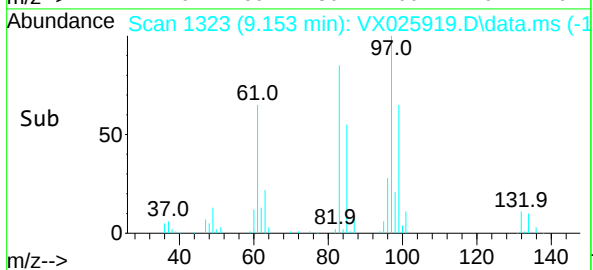
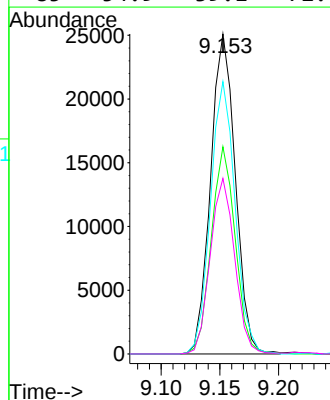
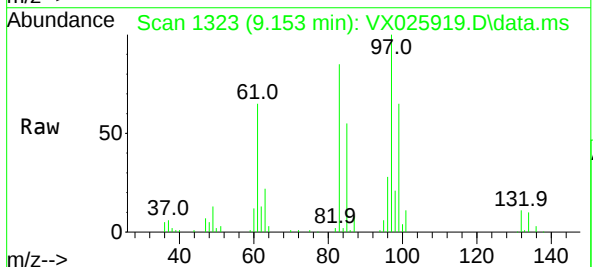
Instrument :
MSVOA_X
ClientSampleId :
GBBY4

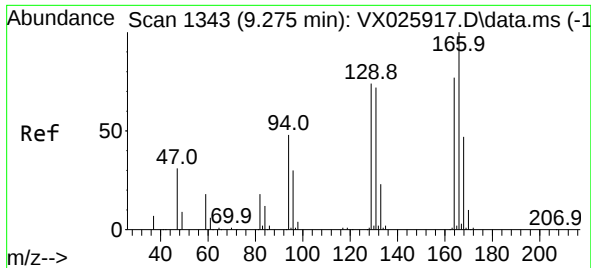
Tgt Ion: 75 Resp: 84321
Ion Ratio Lower Upper
75 100
77 32.6 23.0 42.8



#45
1,1,2-Trichloroethane
Concen: 25.558 ug/L
RT: 9.153 min Scan# 1323
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

Tgt Ion: 97 Resp: 36845
Ion Ratio Lower Upper
97 100
99 64.7 46.0 85.4
83 85.1 59.6 110.8
85 54.9 39.1 72.7

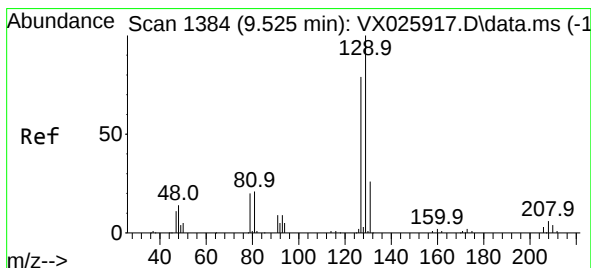
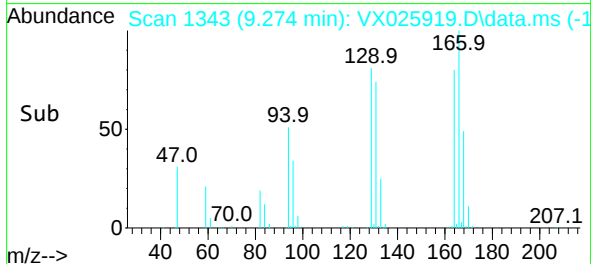
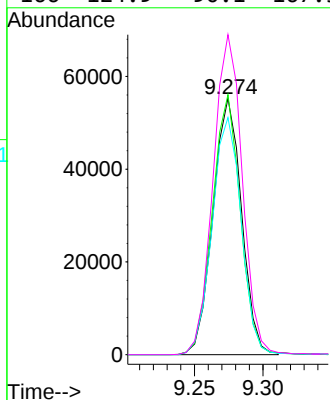
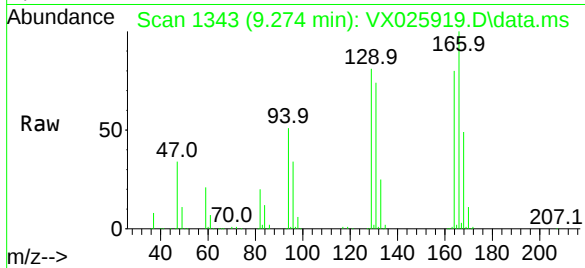




#46
Tetrachloroethene
Concen: 71.882 ug/L
RT: 9.274 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

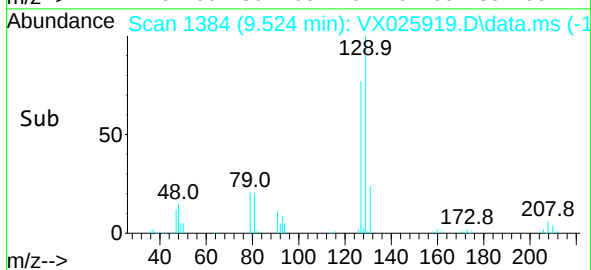
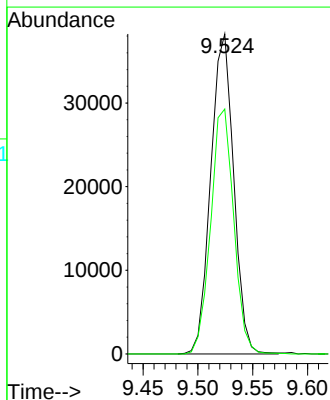
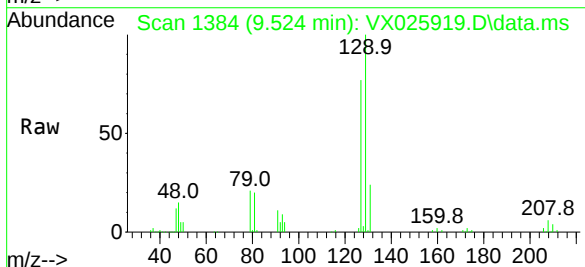
Instrument :
MSVOA_X
ClientSampleId :
GBBY4

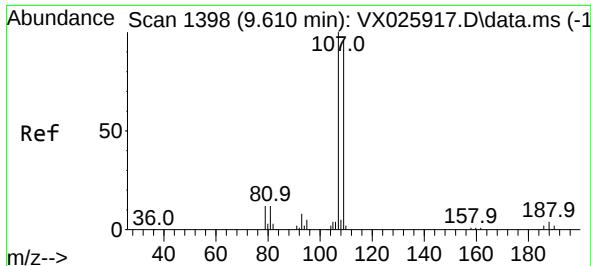
Tgt Ion:164 Resp: 80055
Ion Ratio Lower Upper
164 100
129 101.5 64.7 120.1
131 92.5 63.2 117.4
166 124.9 90.1 167.3



#49
Dibromochloromethane
Concen: 36.951 ug/L
RT: 9.524 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

Tgt Ion:129 Resp: 55696
Ion Ratio Lower Upper
129 100
127 76.5 52.4 97.2

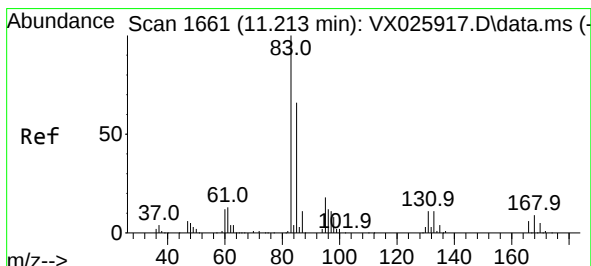
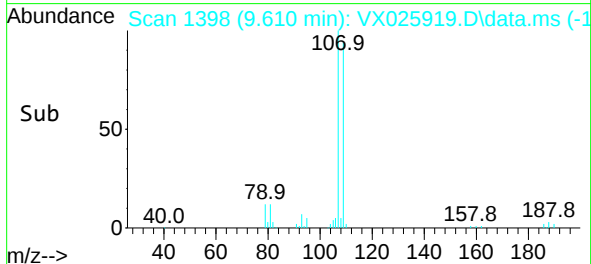
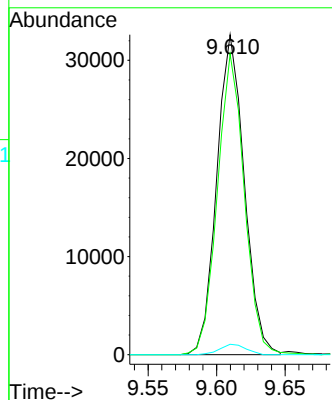
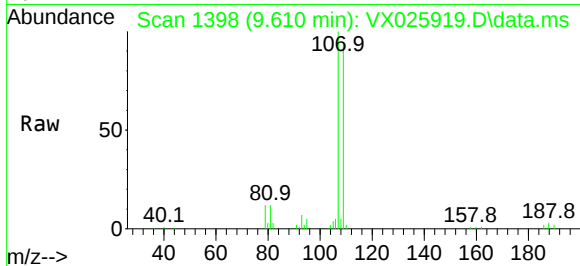




#50
1,2-Dibromoethane
Concen: 29.897 ug/L
RT: 9.610 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

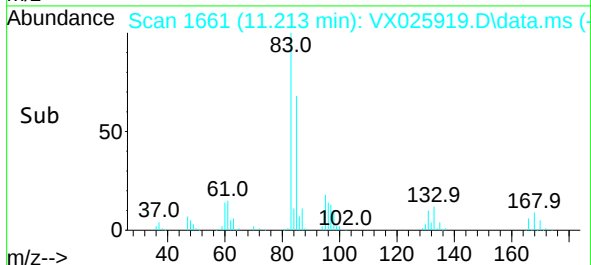
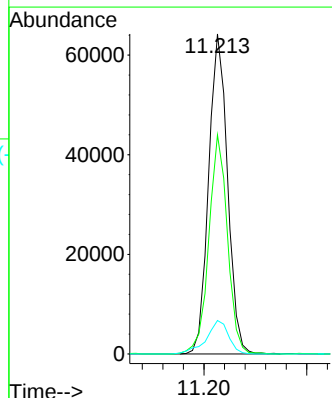
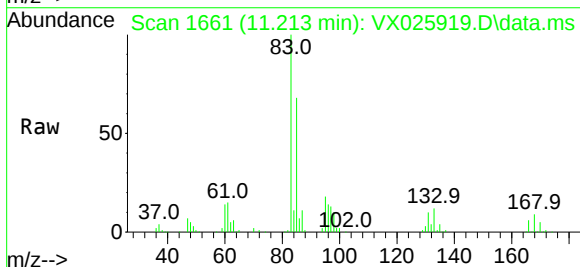
Instrument :
MSVOA_X
ClientSampleId :
GBBY4

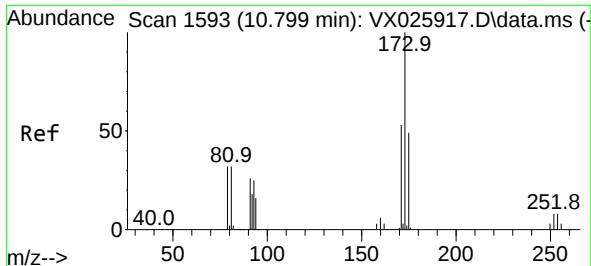
Tgt Ion:107 Resp: 45594
Ion Ratio Lower Upper
107 100
109 94.0 65.3 121.3
188 3.2 2.9 4.3



#57
1,1,2,2-Tetrachloroethane
Concen: 36.501 ug/L
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

Tgt Ion: 83 Resp: 82178
Ion Ratio Lower Upper
83 100
85 68.5 47.0 87.2
131 10.5 8.5 12.7

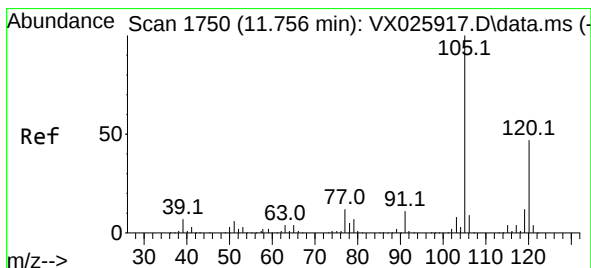
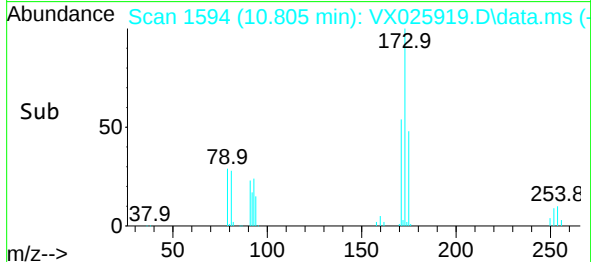
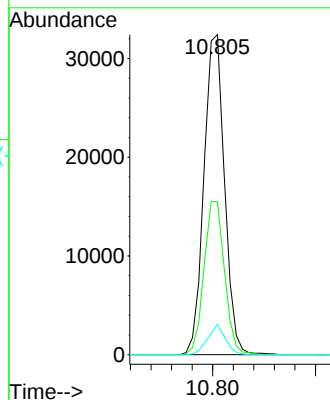
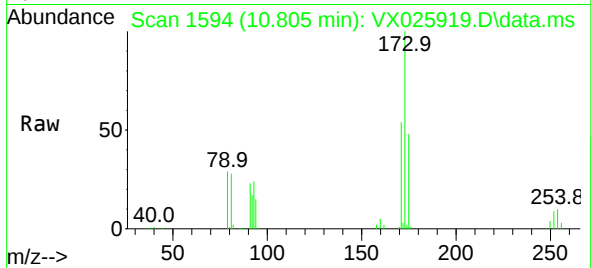




#59
Bromoform
Concen: 47.325 ug/L
RT: 10.805 min Scan# 1594
Delta R.T. 0.006 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

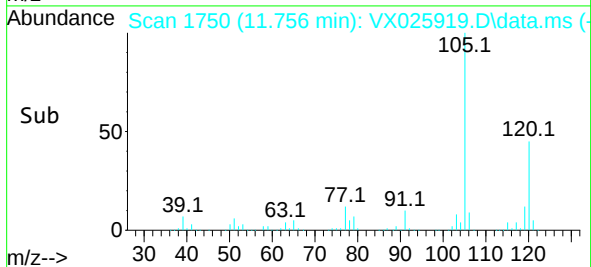
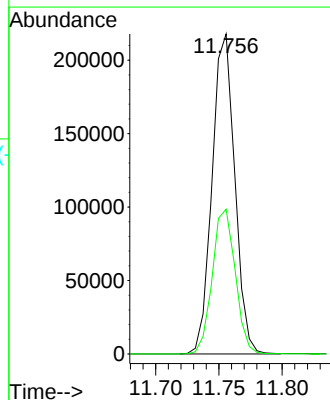
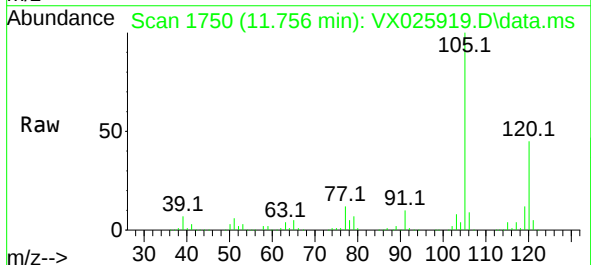
Instrument :
MSVOA_X
ClientSampleId :
GBBY4

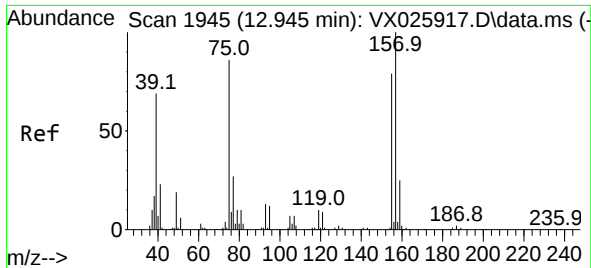
Tgt Ion:173 Resp: 45253
Ion Ratio Lower Upper
173 100
175 47.8 38.6 58.0
254 8.1 7.7 11.5



#63
1,2,4-Trimethylbenzene
Concen: 52.850 ug/L
RT: 11.756 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VX025919.D
Acq: 20 Dec 2021 17:08

Tgt Ion:105 Resp: 271597
Ion Ratio Lower Upper
105 100
120 45.8 0.1 0.1#





#68
 1,2-Dibromo-3-chloropropane
 Concen: 39.581 ug/L
 RT: 12.945 min Scan# 1945
 Delta R.T. -0.000 min
 Lab File: VX025919.D
 Acq: 20 Dec 2021 17:08

Instrument :
 MSVOA_X
 ClientSampleId :
 GBBY4

Tgt Ion: 75 Resp: 15942
 Ion Ratio Lower Upper
 75 100
 155 81.2 79.4 119.2
 157 107.2 100.4 150.6

