

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW031522\
 Data File : VW024999.D
 Acq On : 15 Mar 2022 16:12
 Operator : SY/MD
 Sample : N1934-12
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GBDE2

Quant Time: Mar 16 03:38:43 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR031522WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Mar 16 03:30:21 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	161974	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.851	117	153049	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	71998	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	58873	4.604	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.000%
7) Chloroethane-d5	1.568	69	45319	4.840	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.800%
11) 1,1-Dichloroethene-d2	2.108	63	87312	4.225	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.400%
20) 2-Butanone-d5	3.905	46	67693	43.802	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	87.600%
24) Chloroform-d	4.352	84	111552	5.260	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.200%
26) 1,2-Dichloroethane-d4	5.037	65	45396	5.120	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.400%
32) Benzene-d6	5.050	84	216692	4.881	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.600%
36) 1,2-Dichloropropane-d6	6.069	67	64203	5.029	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.600%
41) Toluene-d8	7.317	98	201609	4.983	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.600%
43) trans-1,3-Dichloroprop...	7.625	79	21895	4.920	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.400%
46) 2-Hexanone-d5	8.088	63	77881	51.302	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.600%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	38564	5.135	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.600%
66) 1,2-Dichlorobenzene-d4	11.622	152	61548	5.050	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.131	85	56787	3.968	ug/L	99
5) Vinyl chloride	1.311	62	58297	4.094	ug/L	100
8) Chloroethane	1.587	64	124633	14.434	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.118	101	126898	12.083	ug/L	98
12) 1,1-Dichloroethene	2.118	96	25459	2.467	ug/L #	51
13) Acetone	2.195	43	155109	150.070	ug/L	89
15) Methyl Acetate	2.442	43	37875	13.375	ug/L	89
16) Methylene chloride	2.510	84	4091	0.327	ug/L	94
18) trans-1,2-Dichloroethene	2.764	96	36577	2.946	ug/L	96
19) 1,1-Dichloroethane	3.192	63	47951	2.269	ug/L	99
22) cis-1,2-Dichloroethene	3.915	96	56753	4.527	ug/L	96
23) Bromochloromethane	4.253	128	27838	5.632	ug/L	97
25) Chloroform	4.378	83	187359	8.514	ug/L	99
27) 1,2-Dichloroethane	5.137	62	24173	2.209	ug/L	98
29) 1,1,1-Trichloroethane	4.610	97	41428	2.123	ug/L	98
31) Carbon tetrachloride	4.828	117	53735	3.209	ug/L	99
34) Trichloroethene	5.918	95	31726	2.394	ug/L	96
39) cis-1,3-Dichloropropene	7.027	75	81224	5.114	ug/L	96
40) 4-Methyl-2-pentanone	7.227	43	313467	66.592	ug/L	99

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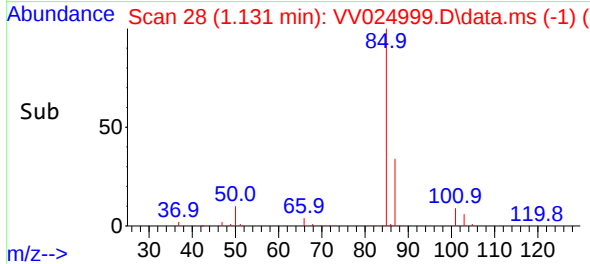
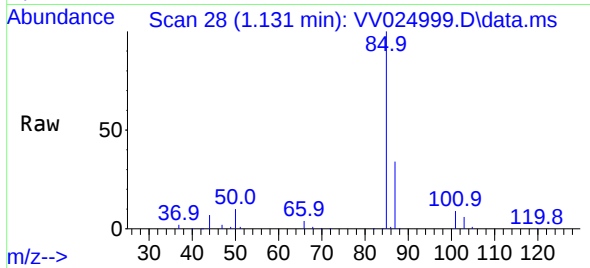
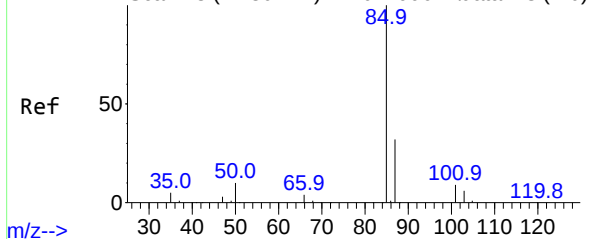
Quant Time: Mar 16 03:38:43 2022
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 Quant Title : TRACE VOA SFAM1.0
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) trans-1,3-Dichloropropene	7.654	75	31565	2.526	ug/L	99
45) 1,1,2-Trichloroethane	7.841	97	17102	2.238	ug/L	95
47) Tetrachloroethene	7.976	164	30294	3.249	ug/L	97
50) 1,2-Dibromoethane	8.352	107	38196	5.462	ug/L	97
51) Chlorobenzene	8.879	112	208038	6.377	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.240	83	13380	1.786	ug/L	96
59) Bromoform	9.732	173	11586	2.988	ug/L	100
63) 1,2,4-Trimethylbenzene	10.912	105	211626	4.850	ug/L	99
64) 1,3-Dichlorobenzene	11.178	146	78186	3.320	ug/L	99
65) 1,4-Dichlorobenzene	11.272	146	49854	2.100	ug/L	98
70) 1,2,4-trichlorobenzene	13.259	180	67422	5.201	ug/L	99
72) 1,2,3-Trichlorobenzene	13.741	180	34984	3.185	ug/L	100

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

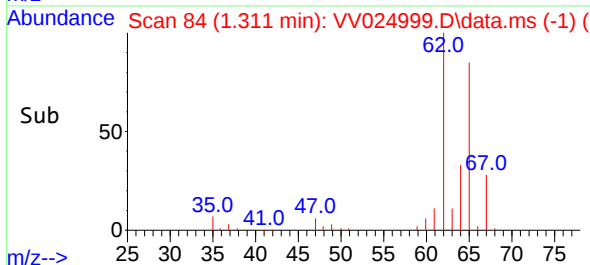
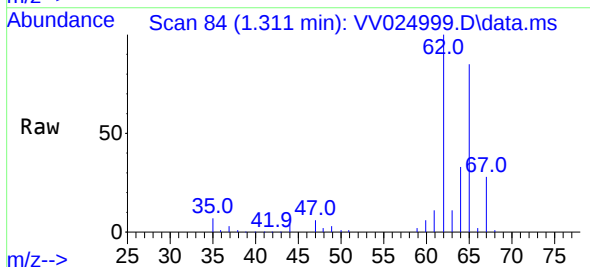
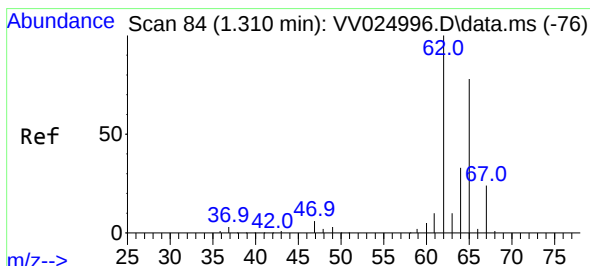
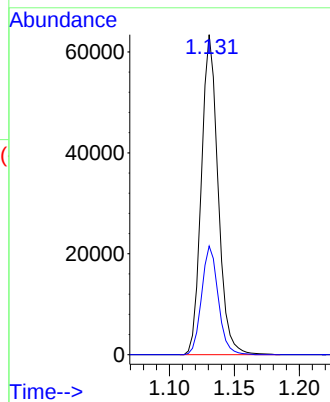
Abundance Scan 28 (1.130 min): VV024996.D\data.ms (-20)



#2
Dichlorodifluoromethane
Concen: 3.968 ug/L
RT: 1.131 min Scan# 28
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

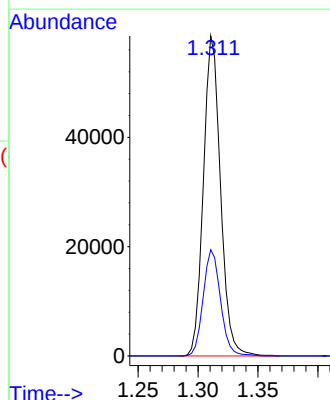
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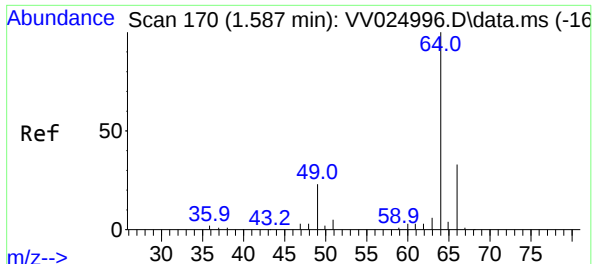
Tgt Ion: 85 Resp: 56787
Ion Ratio Lower Upper
85 100
87 33.7 26.7 40.1



#5
Vinyl chloride
Concen: 4.094 ug/L
RT: 1.311 min Scan# 84
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

Tgt Ion: 62 Resp: 58297
Ion Ratio Lower Upper
62 100
64 33.2 23.4 43.4

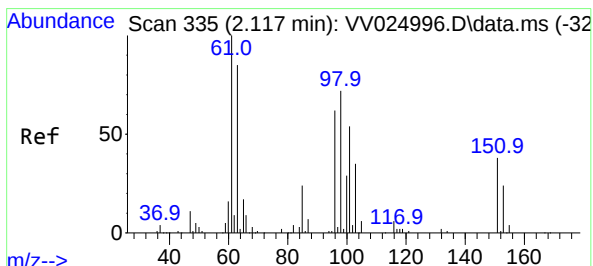
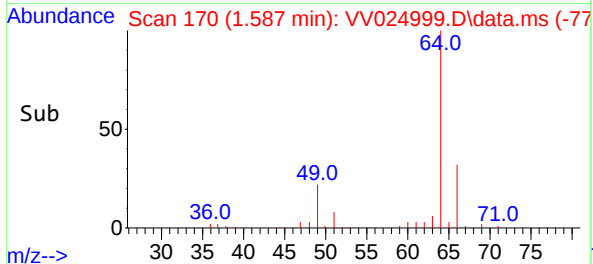
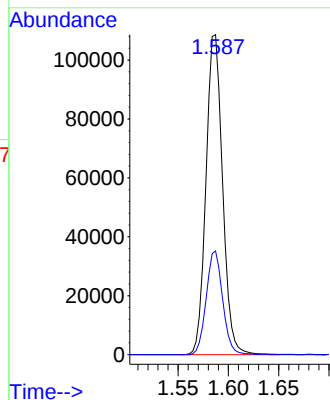
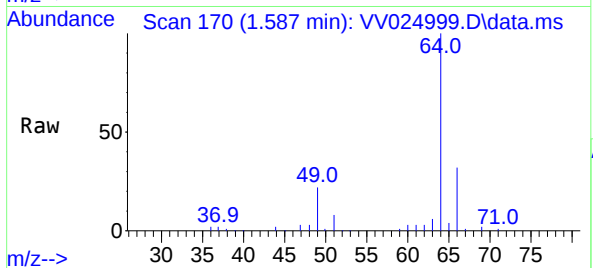




#8
Chloroethane
Concen: 14.434 ug/L
RT: 1.587 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

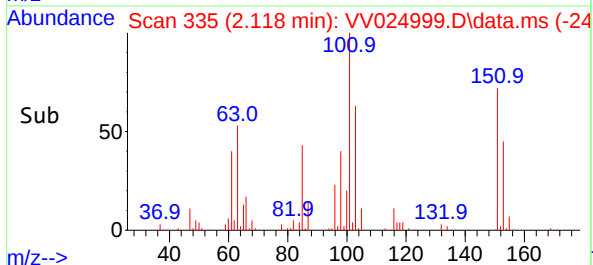
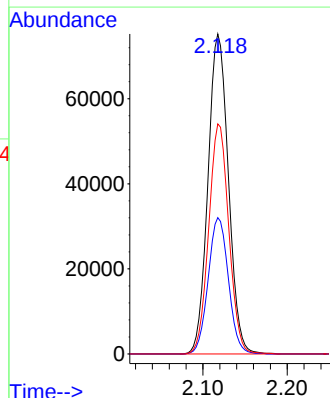
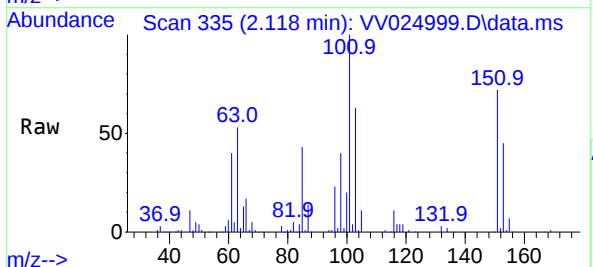
Instrument :
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ClientSampleId :
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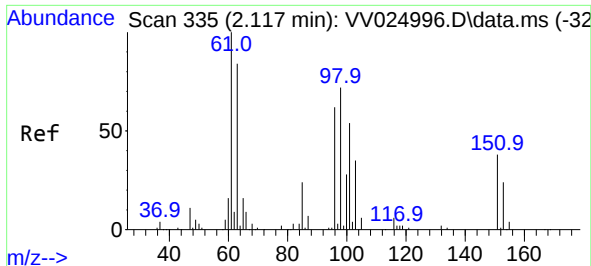
Tgt Ion: 64 Resp: 124633
Ion Ratio Lower Upper
64 100
66 32.4 22.5 41.7



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 12.083 ug/L
RT: 2.118 min Scan# 335
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

Tgt Ion:101 Resp: 126898
Ion Ratio Lower Upper
101 100
85 42.2 34.8 52.2
151 70.7 55.6 83.4

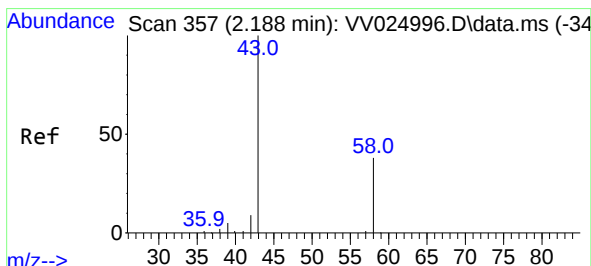
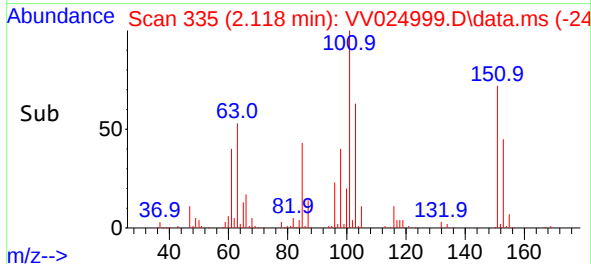
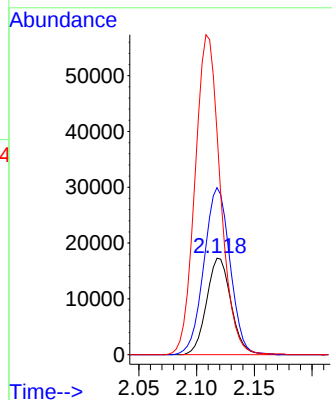
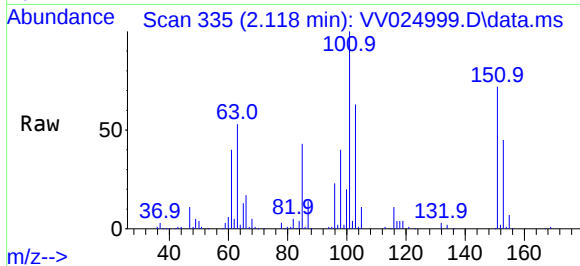




#12
1,1-Dichloroethene
Concen: 2.467 ug/L
RT: 2.118 min Scan# 311
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

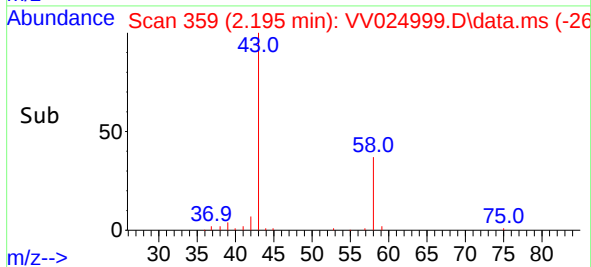
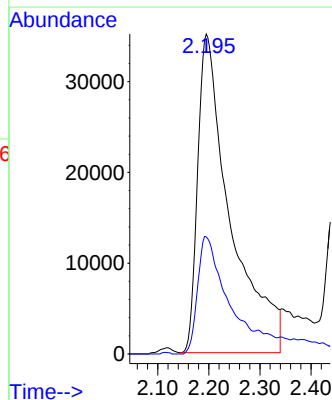
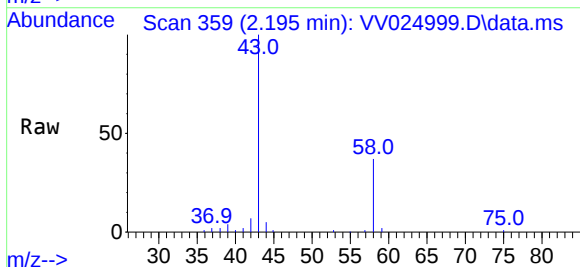
Instrument :
MSVOA_V
ClientSampleId :
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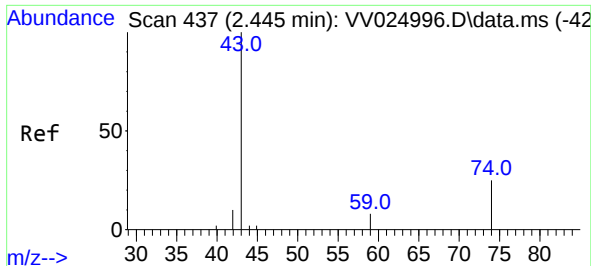
Tgt Ion: 96 Resp: 25459
Ion Ratio Lower Upper
96 100
61 173.3 113.0 209.9
63 231.0 82.1 152.5#



#13
Acetone
Concen: 150.070 ug/L
RT: 2.195 min Scan# 359
Delta R.T. 0.007 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

Tgt Ion: 43 Resp: 155109
Ion Ratio Lower Upper
43 100
58 32.6 0.0 54.2

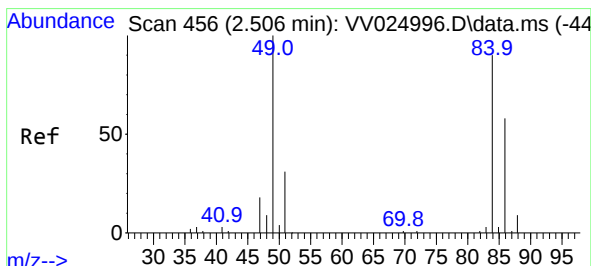
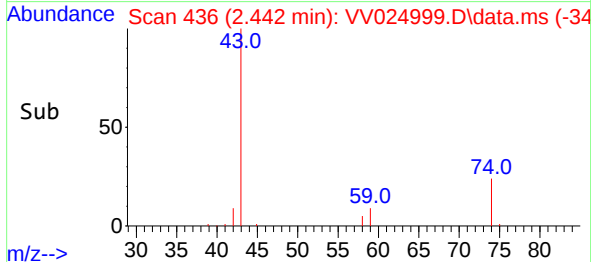
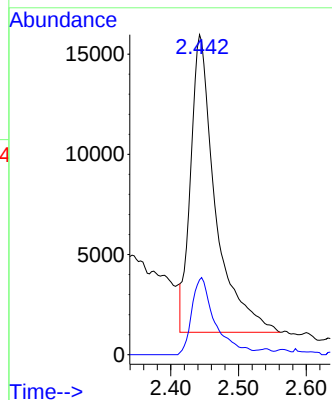
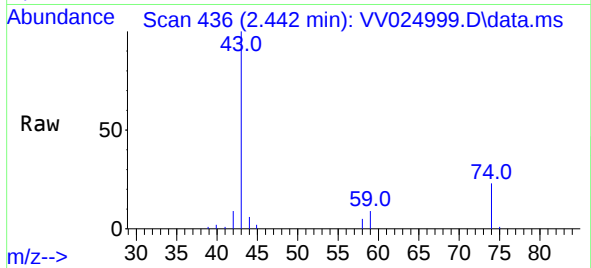




#15
Methyl Acetate
Concen: 13.375 ug/L
RT: 2.442 min Scan# 41
Delta R.T. -0.003 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

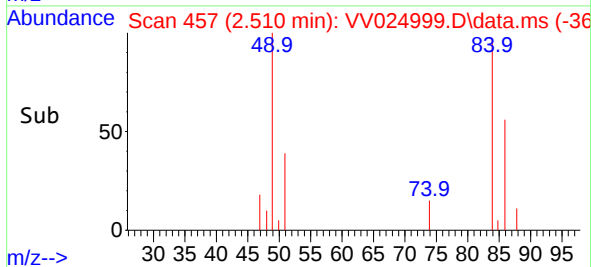
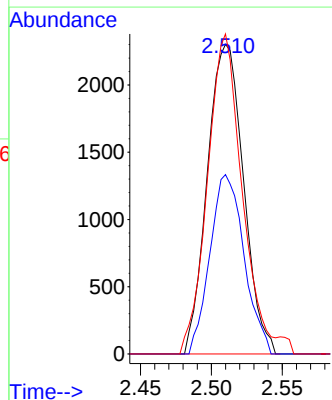
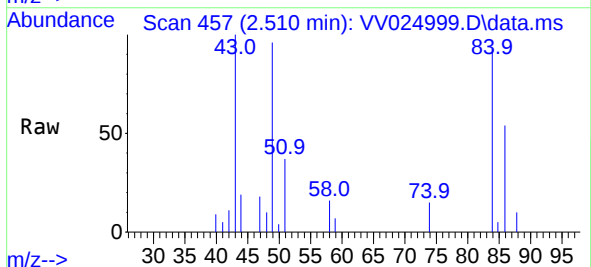
Instrument :
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ClientSampleId :
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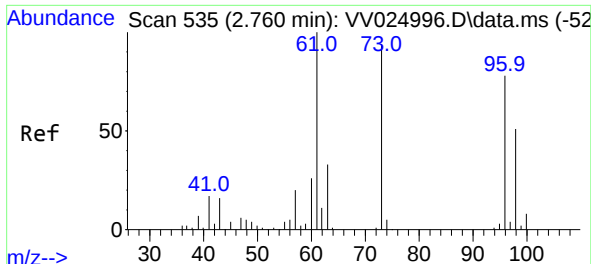
Tgt Ion: 43 Resp: 37875
Ion Ratio Lower Upper
43 100
74 24.3 24.2 36.4



#16
Methylene chloride
Concen: 0.327 ug/L
RT: 2.510 min Scan# 457
Delta R.T. 0.004 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

Tgt Ion: 84 Resp: 4091
Ion Ratio Lower Upper
84 100
86 57.9 45.5 84.5
49 103.3 75.0 139.2

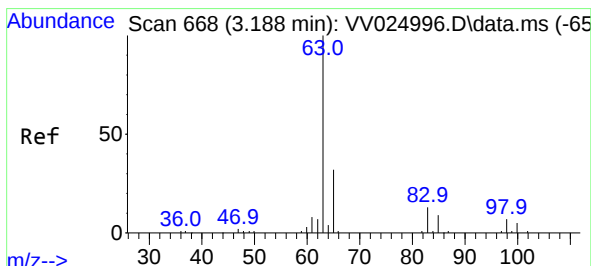
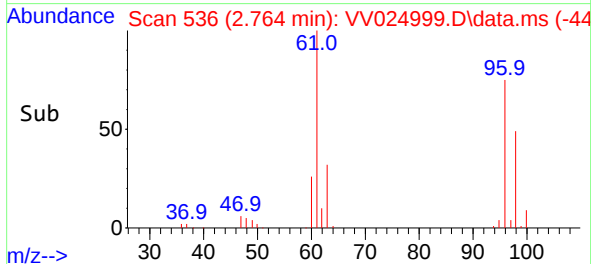
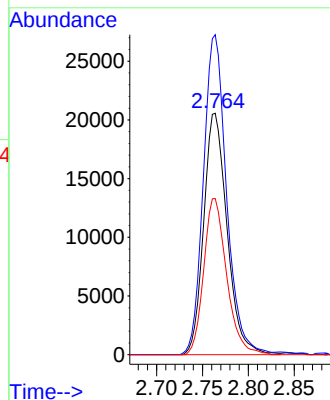
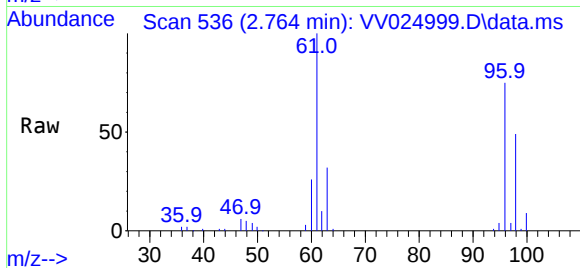




#18
trans-1,2-Dichloroethene
Concen: 2.946 ug/L
RT: 2.764 min Scan# 51
Delta R.T. 0.004 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

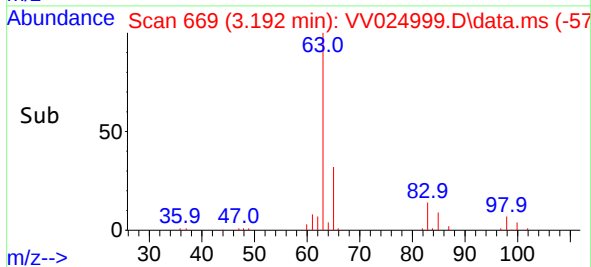
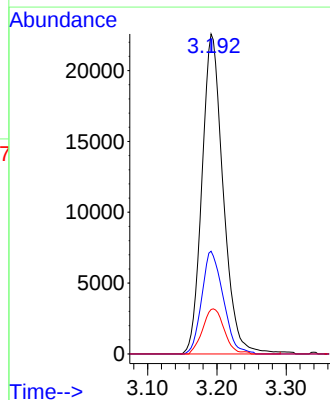
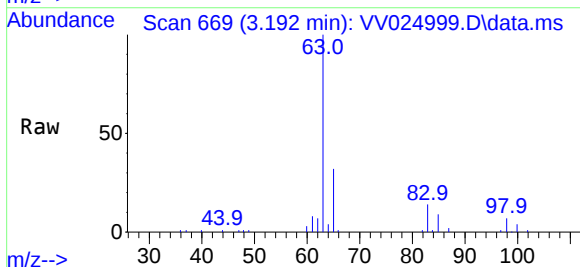
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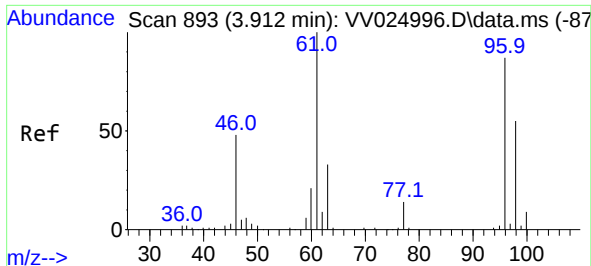
Tgt Ion: 96 Resp: 36577
Ion Ratio Lower Upper
96 100
61 132.6 89.2 165.6
98 64.7 43.9 81.5



#19
1,1-Dichloroethane
Concen: 2.269 ug/L
RT: 3.192 min Scan# 669
Delta R.T. 0.004 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

Tgt Ion: 63 Resp: 47951
Ion Ratio Lower Upper
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83 13.9 9.4 17.4

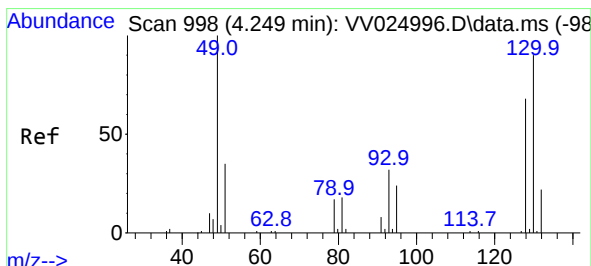
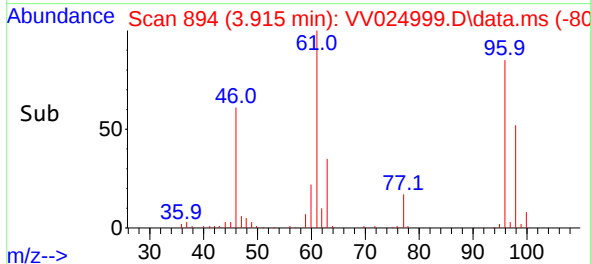
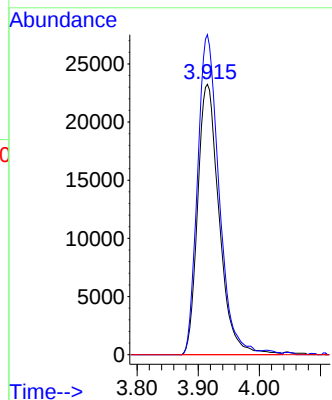
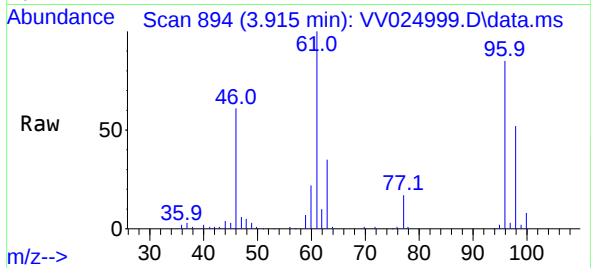




#22
 cis-1,2-Dichloroethene
 Concen: 4.527 ug/L
 RT: 3.915 min Scan# 894
 Delta R.T. 0.003 min
 Lab File: VV024999.D
 Acq: 15 Mar 2022 16:12

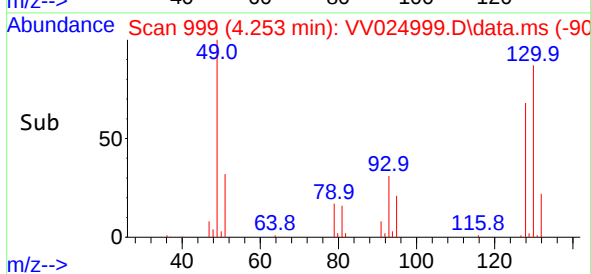
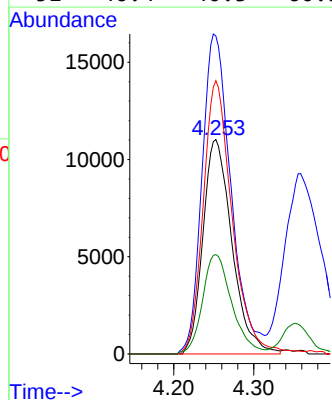
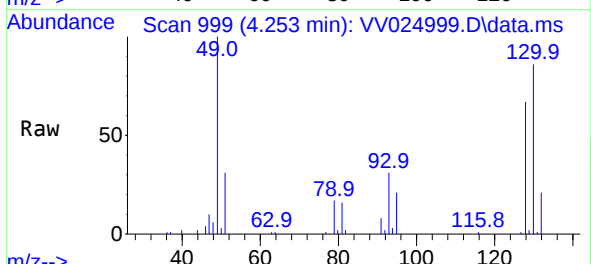
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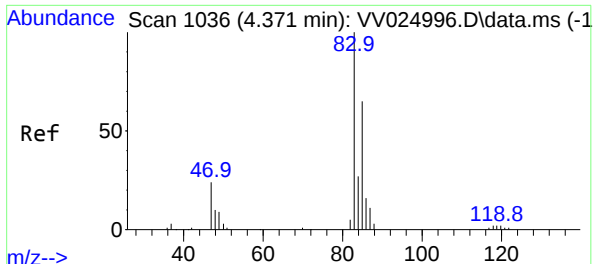
Tgt Ion: 96 Resp: 56753
 Ion Ratio Lower Upper
 96 100
 61 118.3 79.7 147.9
 68 0.0 0.0 0.0



#23
 Bromochloromethane
 Concen: 5.632 ug/L
 RT: 4.253 min Scan# 999
 Delta R.T. 0.004 min
 Lab File: VV024999.D
 Acq: 15 Mar 2022 16:12

Tgt Ion: 128 Resp: 27838
 Ion Ratio Lower Upper
 128 100
 49 148.4 107.5 199.7
 130 127.5 89.4 166.0
 51 46.4 40.3 60.5





#25

Chloroform

Concen: 8.514 ug/L

RT: 4.378 min Scan# 1036

Delta R.T. 0.007 min

Lab File: VV024999.D

Acq: 15 Mar 2022 16:12

Instrument :

MSVOA_V

ClientSampleId :

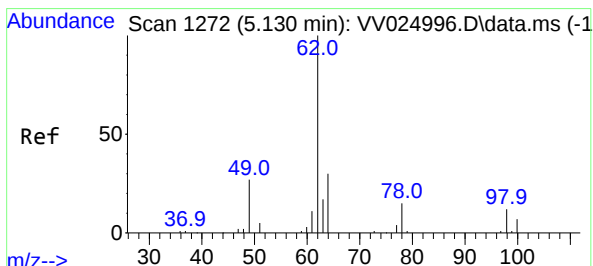
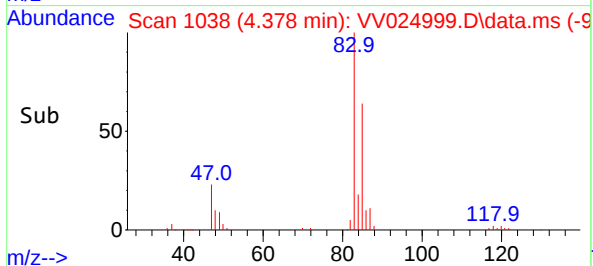
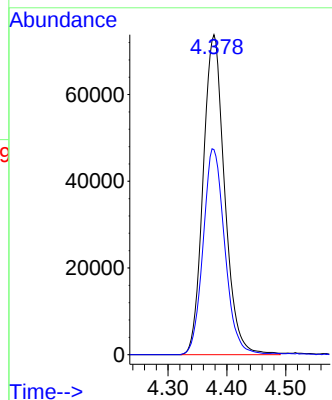
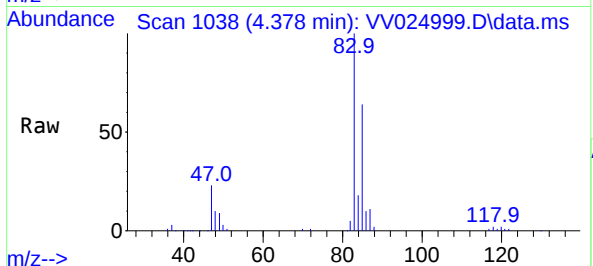
GBDE2

Tgt Ion: 83 Resp: 187359

Ion Ratio Lower Upper

83 100

85 64.1 44.5 82.7



#27

1,2-Dichloroethane

Concen: 2.209 ug/L

RT: 5.137 min Scan# 1274

Delta R.T. 0.007 min

Lab File: VV024999.D

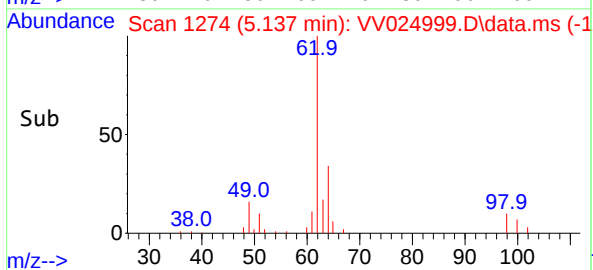
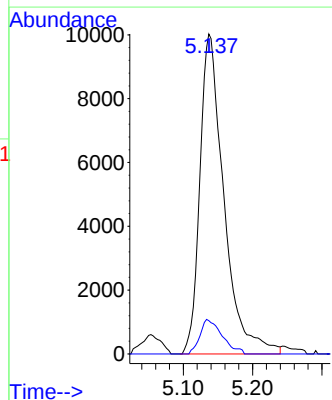
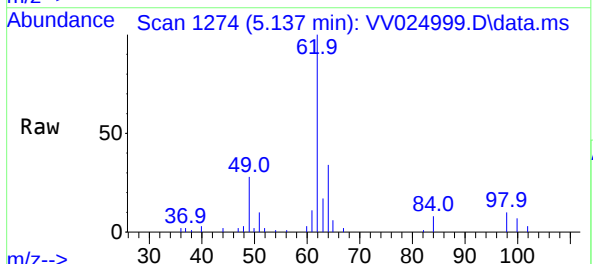
Acq: 15 Mar 2022 16:12

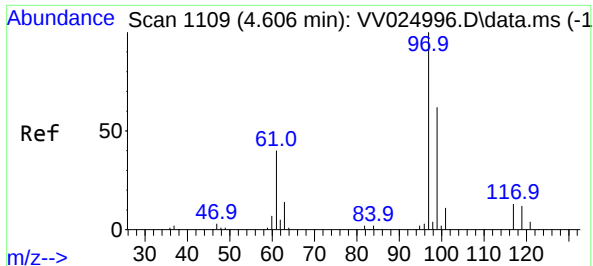
Tgt Ion: 62 Resp: 24173

Ion Ratio Lower Upper

62 100

98 10.4 9.0 13.4





#29

1,1,1-Trichloroethane

Concen: 2.123 ug/L

RT: 4.610 min Scan# 1110

Delta R.T. 0.004 min

Lab File: VV024999.D

Acq: 15 Mar 2022 16:12

Instrument :

MSVOA_V

ClientSampleId :

GBDE2

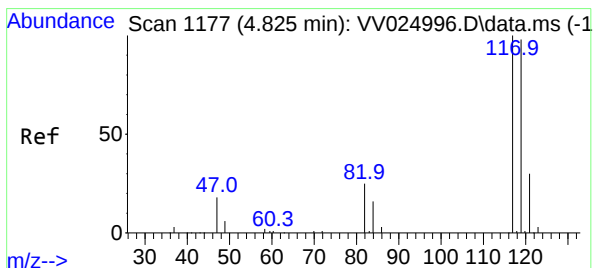
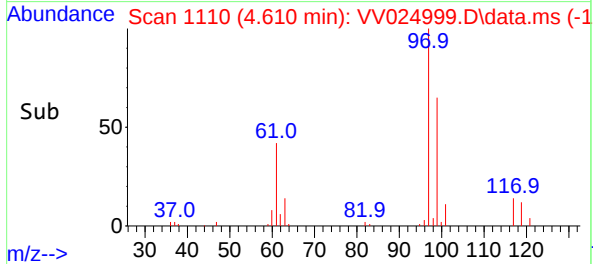
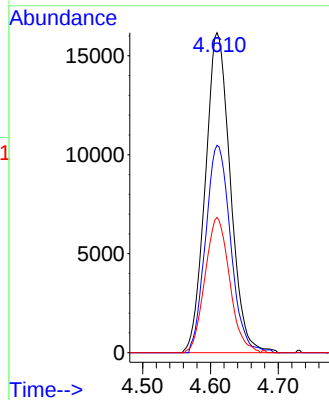
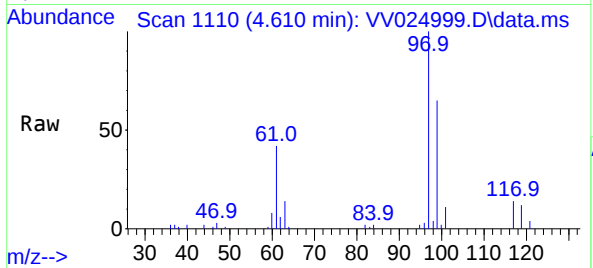
Tgt Ion: 97 Resp: 41428

Ion Ratio Lower Upper

97 100

99 65.0 50.7 76.1

61 41.6 32.4 48.6



#31

Carbon tetrachloride

Concen: 3.209 ug/L

RT: 4.828 min Scan# 1178

Delta R.T. 0.003 min

Lab File: VV024999.D

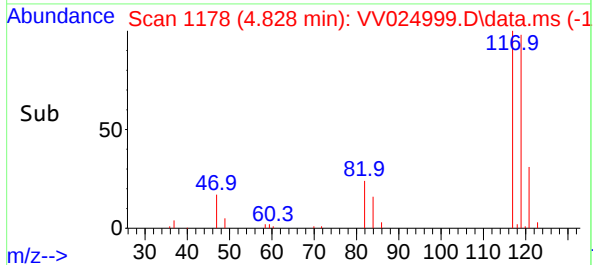
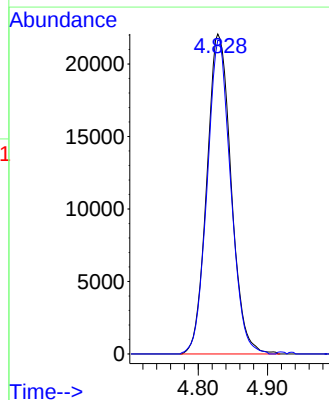
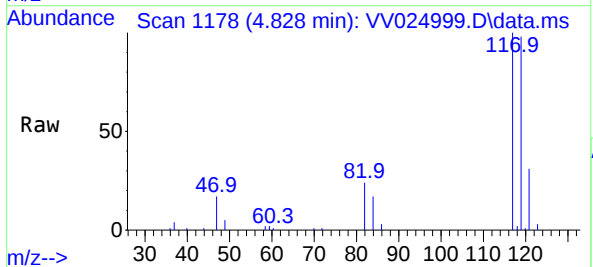
Acq: 15 Mar 2022 16:12

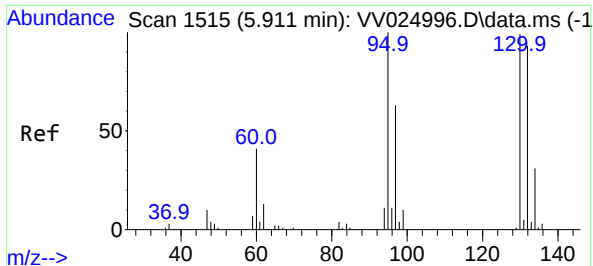
Tgt Ion: 117 Resp: 53735

Ion Ratio Lower Upper

117 100

119 95.4 76.8 115.2

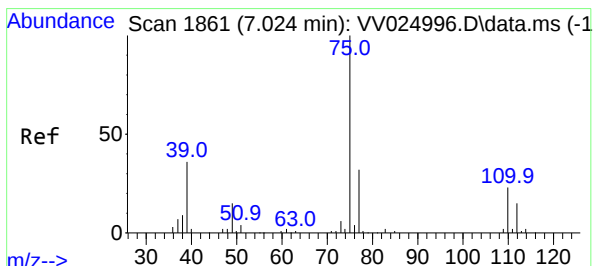
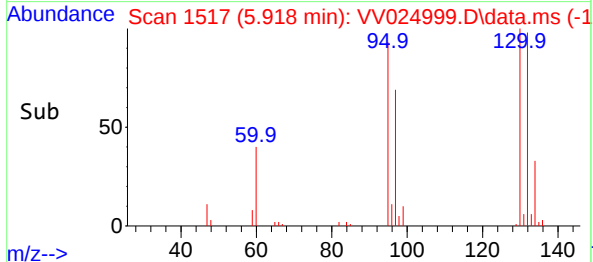
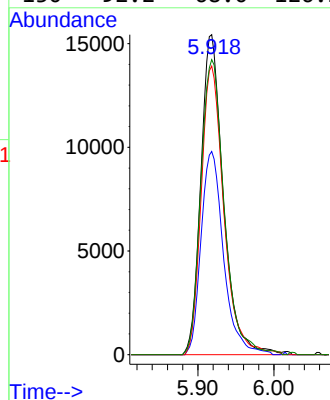
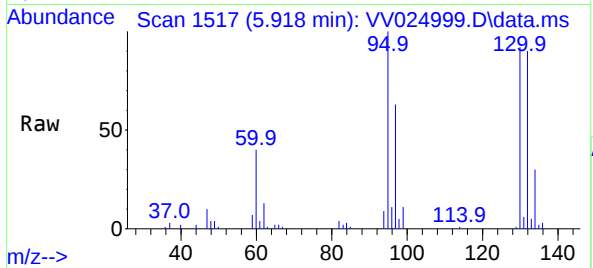




#34
Trichloroethene
Concen: 2.394 ug/L
RT: 5.918 min Scan# 11
Delta R.T. 0.007 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

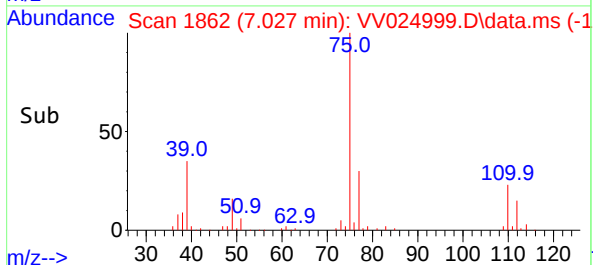
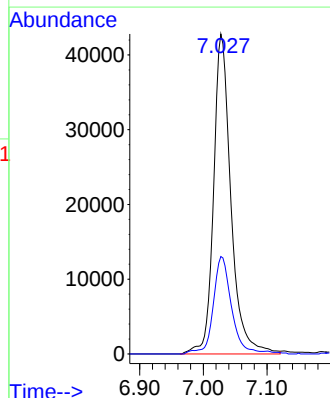
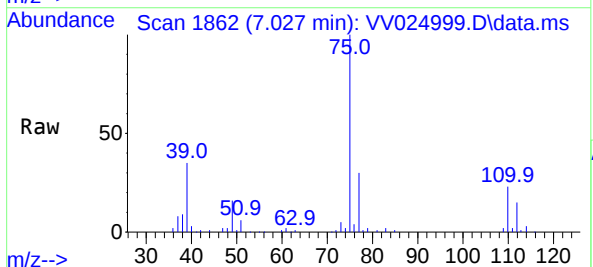
Instrument :
MSVOA_V
ClientSampleId :
GBDE2

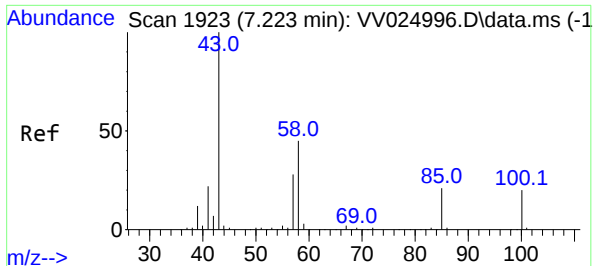
Tgt Ion: 95 Resp: 31726
Ion Ratio Lower Upper
95 100
97 63.5 44.5 82.7
132 90.2 66.5 123.5
130 92.2 68.0 126.2



#39
cis-1,3-Dichloropropene
Concen: 5.114 ug/L
RT: 7.027 min Scan# 1862
Delta R.T. 0.003 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

Tgt Ion: 75 Resp: 81224
Ion Ratio Lower Upper
75 100
77 30.4 23.0 42.8





#40

4-Methyl-2-pentanone

Concen: 66.592 ug/L

RT: 7.227 min Scan# 1923

Delta R.T. 0.003 min

Lab File: VV024999.D

Acq: 15 Mar 2022 16:12

Instrument :

MSVOA_V

ClientSampleId :

GBDE2

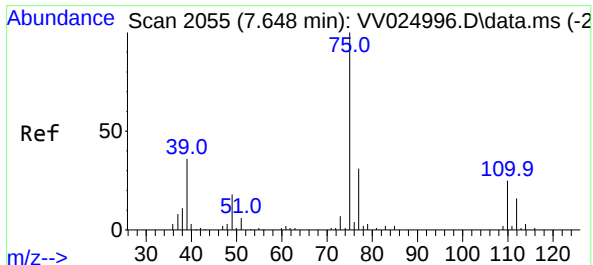
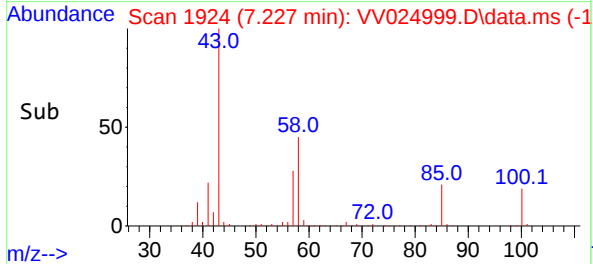
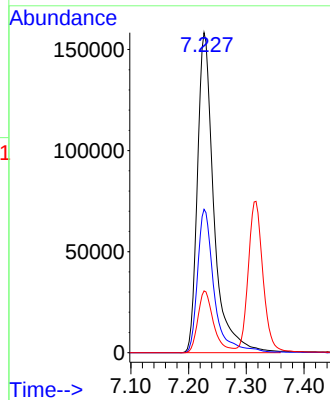
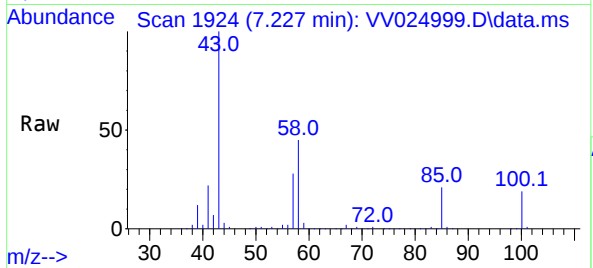
Tgt Ion: 43 Resp: 313467

Ion Ratio Lower Upper

43 100

58 45.1 36.6 55.0

100 18.4 13.8 20.8



#44

trans-1,3-Dichloropropene

Concen: 2.526 ug/L

RT: 7.654 min Scan# 2057

Delta R.T. 0.007 min

Lab File: VV024999.D

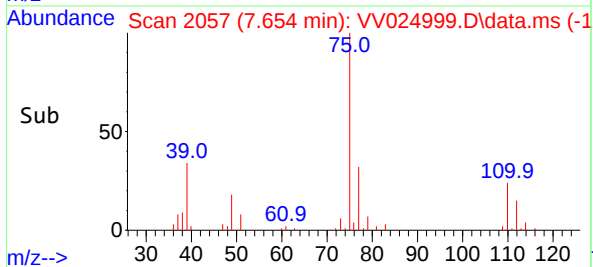
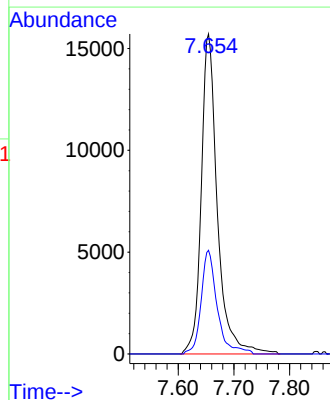
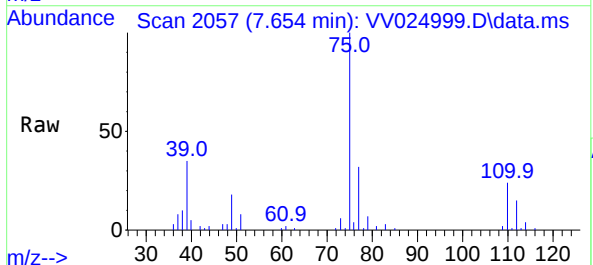
Acq: 15 Mar 2022 16:12

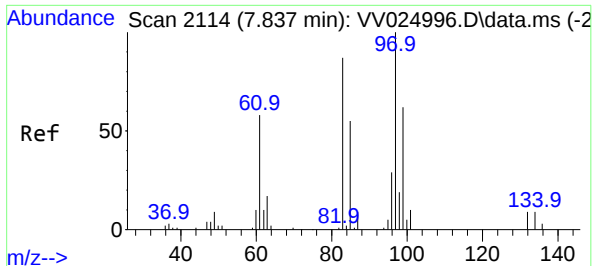
Tgt Ion: 75 Resp: 31565

Ion Ratio Lower Upper

75 100

77 32.4 23.0 42.6



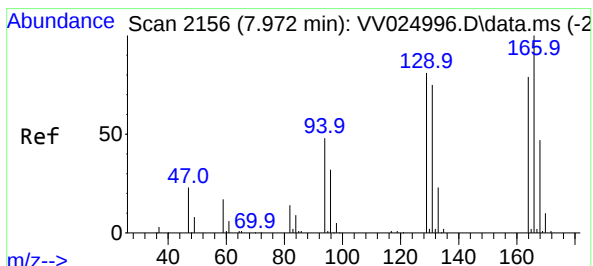
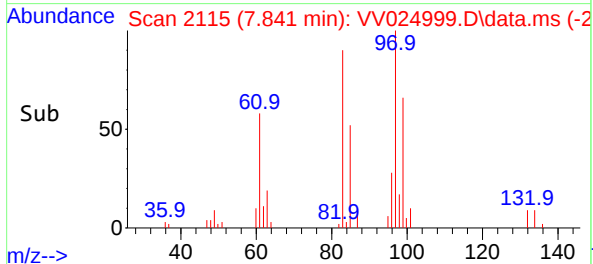
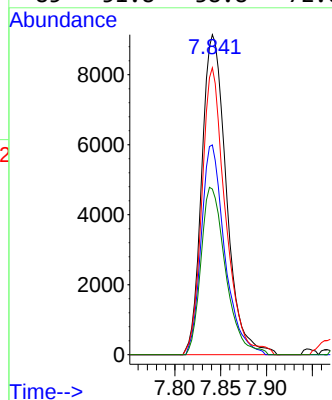
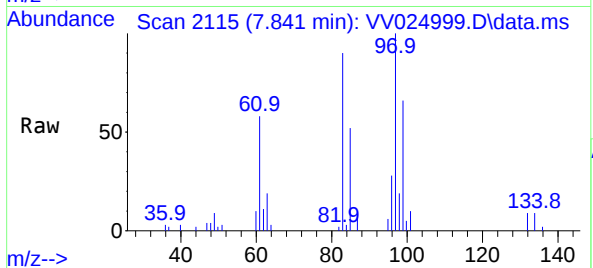


#45
1,1,2-Trichloroethane
Concen: 2.238 ug/L
RT: 7.841 min Scan# 2114
Delta R.T. 0.004 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

Instrument :
MSVOA_V
ClientSampleId :
GBDE2

Tgt Ion: 97 Resp: 17102

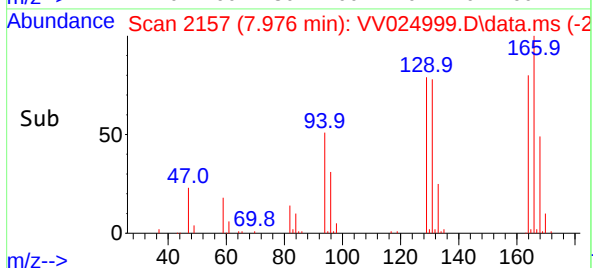
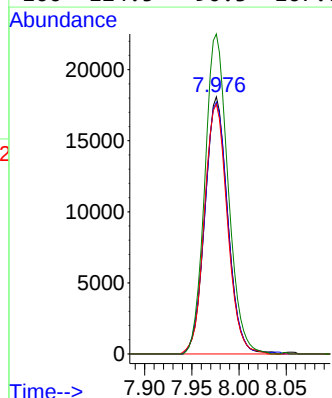
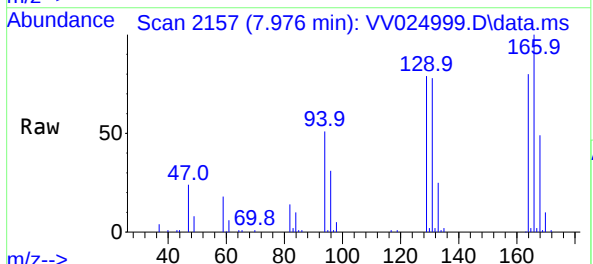
Ion	Ratio	Lower	Upper
97	100		
99	65.5	43.7	81.1
83	89.6	58.9	109.3
85	51.8	38.8	72.0

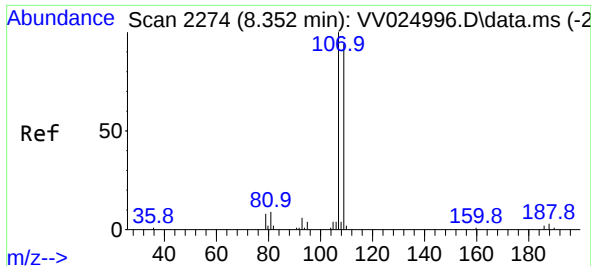


#47
Tetrachloroethene
Concen: 3.249 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.004 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

Tgt Ion: 164 Resp: 30294

Ion	Ratio	Lower	Upper
164	100		
129	97.9	70.3	130.7
131	97.2	69.4	129.0
166	124.5	90.3	167.7

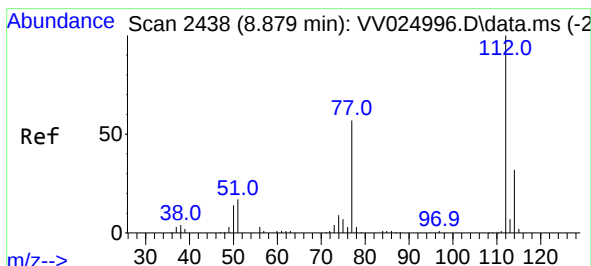
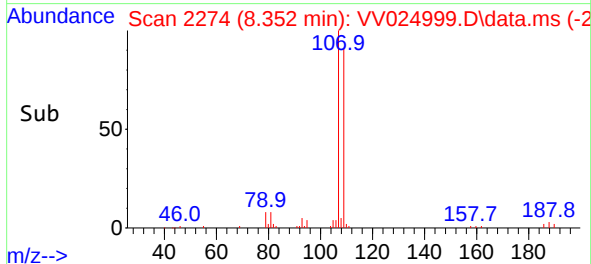
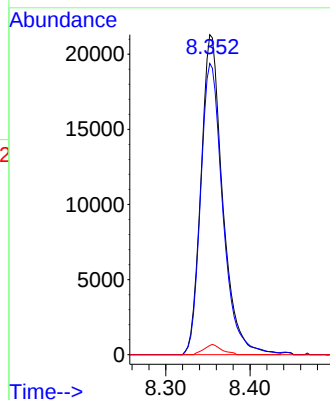
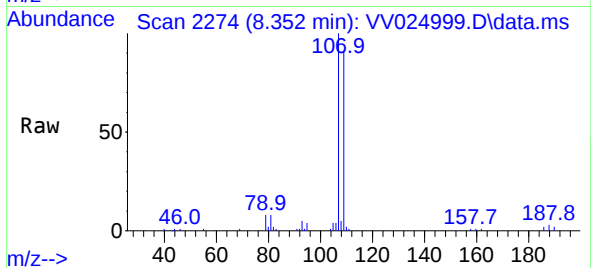




#50
1,2-Dibromoethane
Concen: 5.462 ug/L
RT: 8.352 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

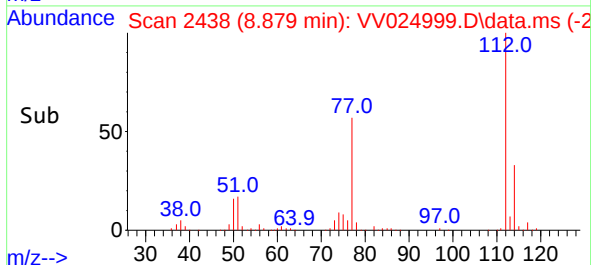
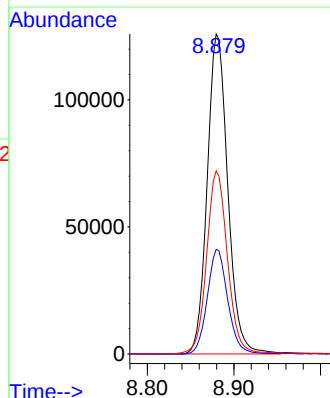
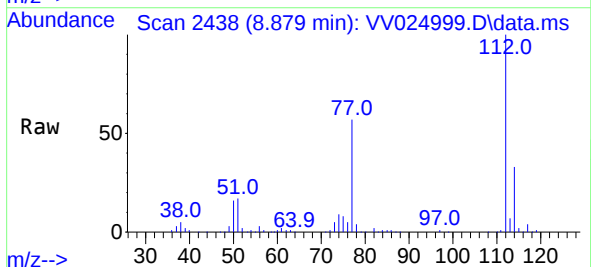
Instrument :
MSVOA_V
ClientSampleId :
GBDE2

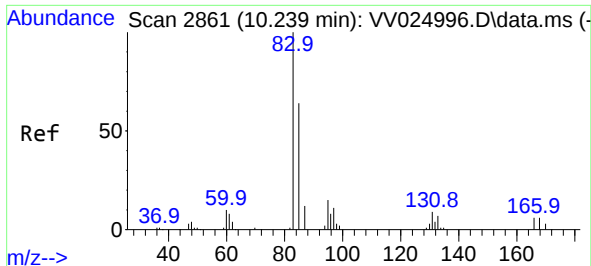
Tgt Ion:107 Resp: 38196
Ion Ratio Lower Upper
107 100
109 91.0 65.5 121.6
188 2.9 2.4 3.6



#51
Chlorobenzene
Concen: 6.377 ug/L
RT: 8.879 min Scan# 2438
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

Tgt Ion:112 Resp: 208038
Ion Ratio Lower Upper
112 100
114 32.7 22.5 41.7
77 57.3 45.3 67.9

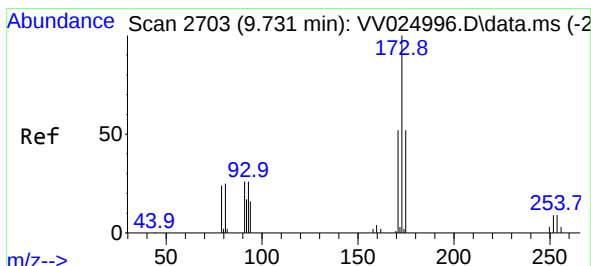
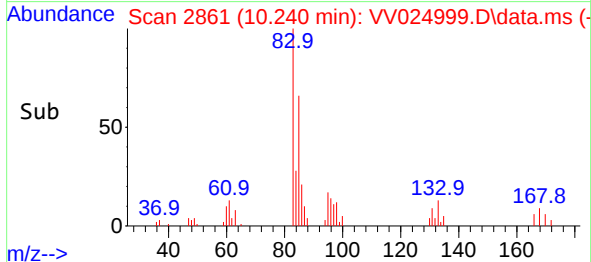
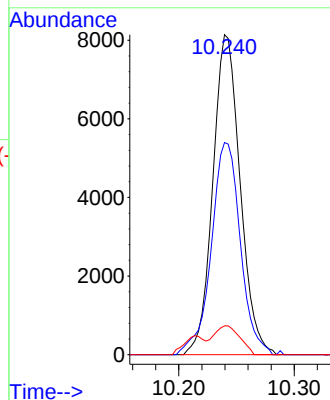
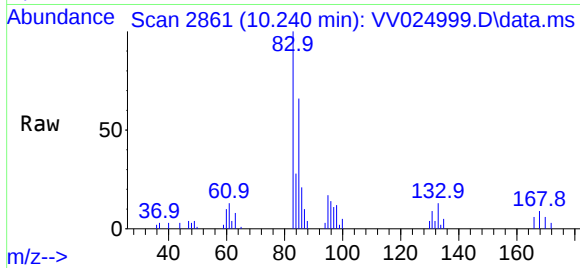




#57
1,1,2,2-Tetrachloroethane
Concen: 1.786 ug/L
RT: 10.240 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

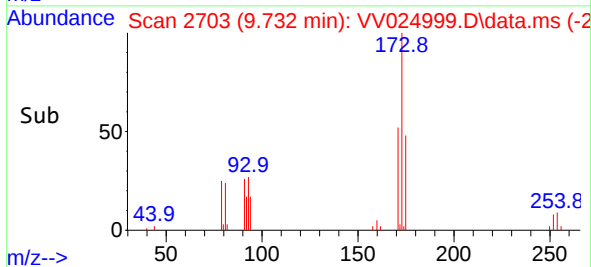
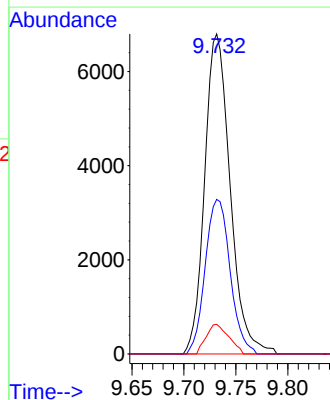
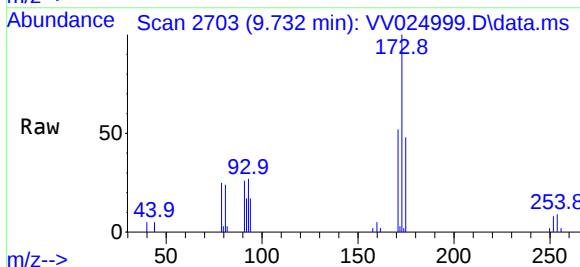
Instrument :
MSVOA_V
ClientSampleId :
GBDE2

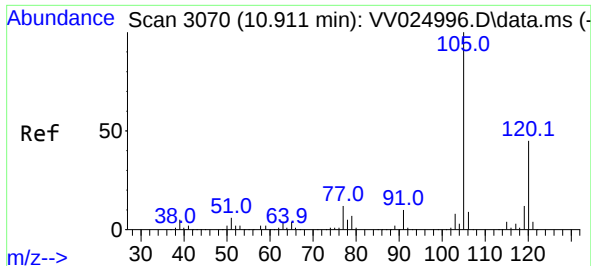
Tgt Ion: 83 Resp: 13380
Ion Ratio Lower Upper
83 100
85 66.3 43.9 81.5
131 9.0 7.5 11.3



#59
Bromoform
Concen: 2.988 ug/L
RT: 9.732 min Scan# 2703
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

Tgt Ion: 173 Resp: 11586
Ion Ratio Lower Upper
173 100
175 47.2 37.8 56.8
254 8.2 5.8 8.6

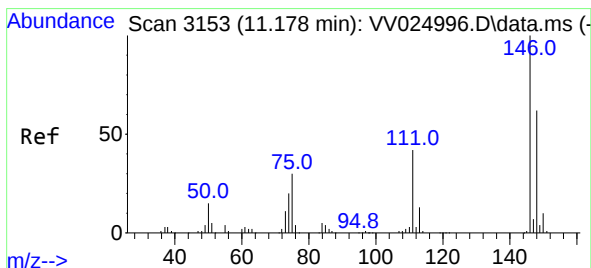
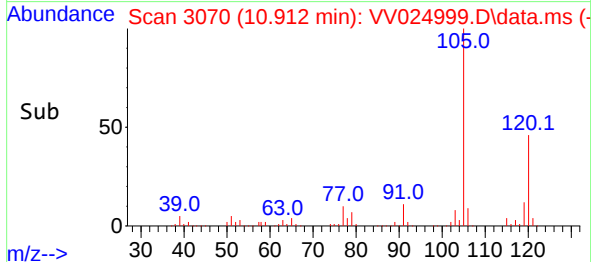
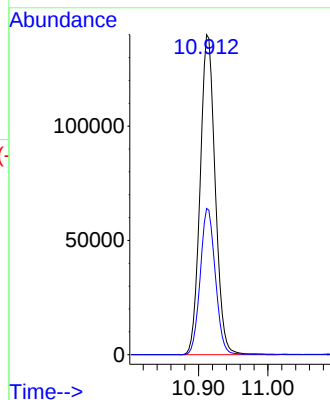
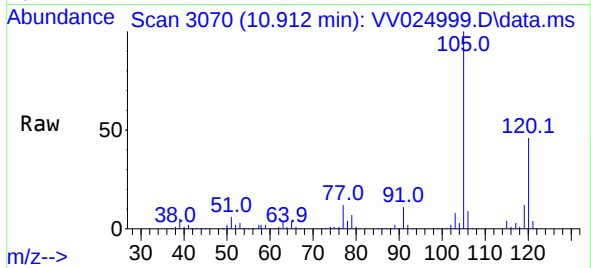




#63
1,2,4-Trimethylbenzene
Concen: 4.850 ug/L
RT: 10.912 min Scan# 3070
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

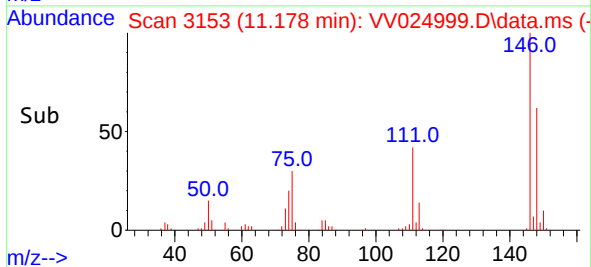
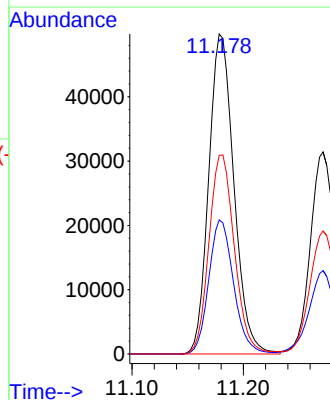
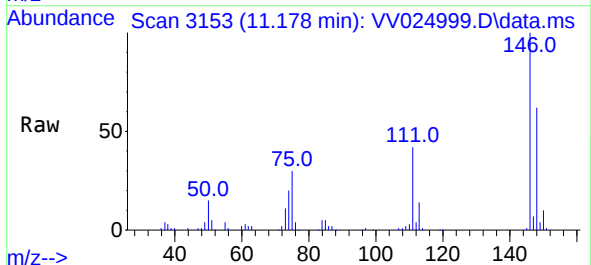
Instrument :
MSVOA_V
ClientSampleId :
GBDE2

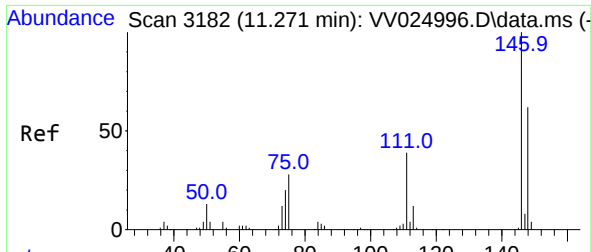
Tgt Ion:105 Resp: 211626
Ion Ratio Lower Upper
105 100
120 45.6 35.8 53.8



#64
1,3-Dichlorobenzene
Concen: 3.320 ug/L
RT: 11.178 min Scan# 3153
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

Tgt Ion:146 Resp: 78186
Ion Ratio Lower Upper
146 100
111 41.9 29.2 54.2
148 62.0 43.8 81.4

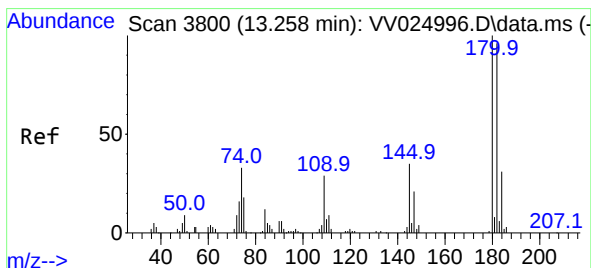
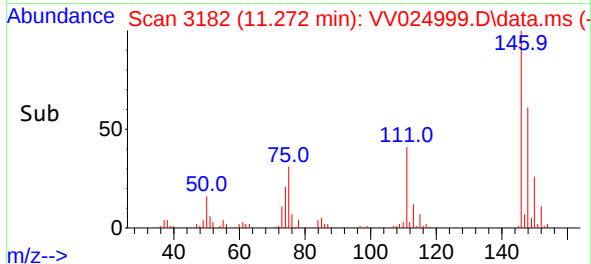
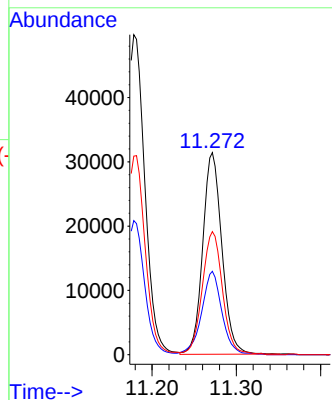
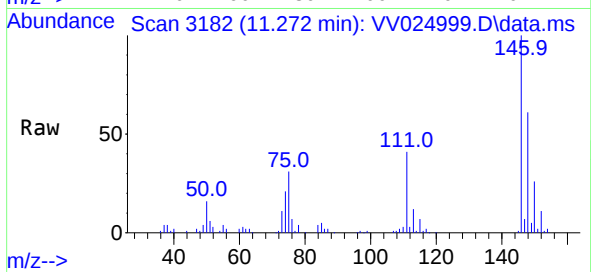




#65
1,4-Dichlorobenzene
Concen: 2.100 ug/L
RT: 11.272 min Scan# 3182
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

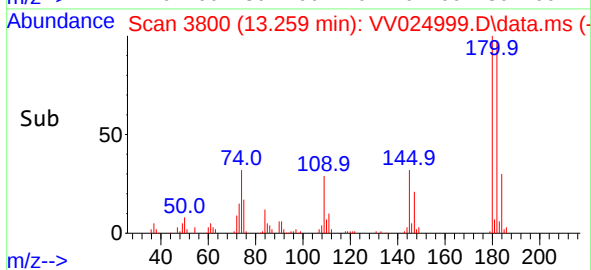
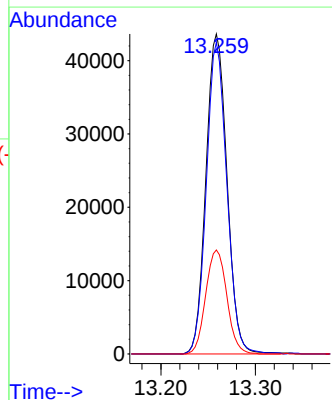
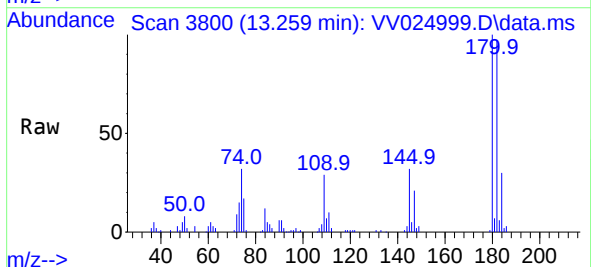
Instrument :
MSVOA_V
ClientSampleId :
GBDE2

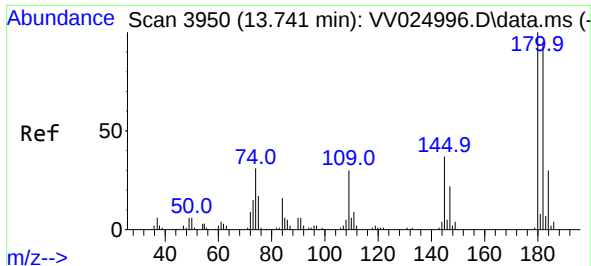
Tgt Ion:146 Resp: 49854
Ion Ratio Lower Upper
146 100
111 41.2 28.2 52.4
148 60.9 43.8 81.4



#70
1,2,4-trichlorobenzene
Concen: 5.201 ug/L
RT: 13.259 min Scan# 3800
Delta R.T. 0.000 min
Lab File: VV024999.D
Acq: 15 Mar 2022 16:12

Tgt Ion:180 Resp: 67422
Ion Ratio Lower Upper
180 100
182 94.7 74.6 112.0
145 32.7 26.1 39.1





#72
 1,2,3-Trichlorobenzene
 Concen: 3.185 ug/L
 RT: 13.741 min Scan# 3950
 Delta R.T. 0.000 min
 Lab File: VV024999.D
 Acq: 15 Mar 2022 16:12

Instrument :
 MSVOA_V
 ClientSampleId :
 GBDE2

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	74.8	112.2
145	34.2	27.6	41.4

