

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW072022\
 Data File : VW026851.D
 Acq On : 20 Jul 2022 15:56
 Operator : SY/MD
 Sample : N3802-12
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GBHX5

Quant Time: Jul 21 01:50:48 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR071122WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jul 21 01:47:16 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	228438	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	233834	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	118187	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	67228	3.226	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	64.600%
7) Chloroethane-d5	1.561	69	64217	3.566	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	71.400%
11) 1,1-Dichloroethene-d2	2.105	63	112181	2.804	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.000%#
20) 2-Butanone-d5	3.883	46	185247	56.954	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	113.900%
24) Chloroform-d	4.346	84	178258	4.892	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.800%
26) 1,2-Dichloroethane-d4	5.031	65	75367	4.734	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.600%
32) Benzene-d6	5.047	84	269584	3.794	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.800%
36) 1,2-Dichloropropane-d6	6.069	67	96499	4.530	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.600%
41) Toluene-d8	7.313	98	246553	3.909	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.200%
43) trans-1,3-Dichloroprop...	7.625	79	28445	4.081	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.600%
46) 2-Hexanone-d5	8.088	63	152782	50.628	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.260%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	81813	4.930	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.600%
66) 1,2-Dichlorobenzene-d4	11.622	152	91267	4.432	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.127	85	94681	3.260	ug/L	99
5) Vinyl chloride	1.307	62	104218	3.673	ug/L	100
8) Chloroethane	1.581	64	218212	13.052	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.111	101	233167	11.287	ug/L	99
12) 1,1-Dichloroethene	2.114	96	44647	2.229	ug/L	89
13) Acetone	2.169	43	321232	117.382	ug/L #	29
15) Methyl Acetate	2.433	43	65652	11.862	ug/L	94
16) Methylene chloride	2.503	84	13937	0.584	ug/L	95
18) trans-1,2-Dichloroethene	2.757	96	56943	3.093	ug/L	94
19) 1,1-Dichloroethane	3.188	63	79240	2.357	ug/L	98
22) cis-1,2-Dichloroethene	3.908	96	83277	4.485	ug/L	96
23) Bromochloromethane	4.246	128	49455	5.782	ug/L	94
25) Chloroform	4.371	83	314906	8.944	ug/L	100
27) 1,2-Dichloroethane	5.133	62	41402	2.182	ug/L	98
29) 1,1,1-Trichloroethane	4.603	97	68477	2.173	ug/L	98
31) Carbon tetrachloride	4.825	117	90862	3.265	ug/L	97
34) Trichloroethene	5.912	95	45336	2.360	ug/L	98
39) cis-1,3-Dichloropropene	7.027	75	109077	4.695	ug/L	97
40) 4-Methyl-2-pentanone	7.227	43	521671	60.414	ug/L	99

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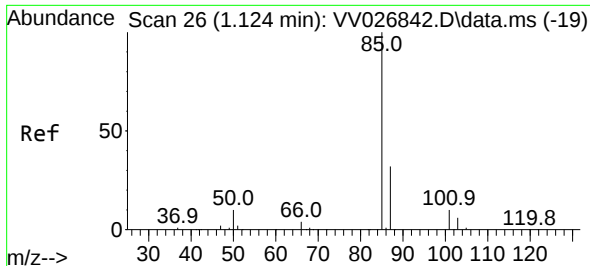
Instrument :
 MSVOA_V
 ClientSampleId :
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Quant Time: Jul 21 01:50:48 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR071122WMA.M
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) trans-1,3-Dichloropropene	7.651	75	45911	2.407	ug/L	97
45) 1,1,2-Trichloroethane	7.841	97	29410	2.152	ug/L	94
47) Tetrachloroethene	7.973	164	50517	3.352	ug/L	96
50) 1,2-Dibromoethane	8.352	107	64903	5.368	ug/L	98
51) Chlorobenzene	8.879	112	327332	6.557	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.239	83	25745	1.592	ug/L	92
59) Bromoform	9.731	173	21791	2.874	ug/L	97
63) 1,2,4-Trimethylbenzene	10.915	105	229367	3.851	ug/L	99
64) 1,3-Dichlorobenzene	11.181	146	116347	3.221	ug/L	98
65) 1,4-Dichlorobenzene	11.272	146	76084	2.072	ug/L	97
70) 1,2,4-trichlorobenzene	13.259	180	96172	4.954	ug/L	99
72) 1,2,3-Trichlorobenzene	13.741	180	51549	2.853	ug/L	99

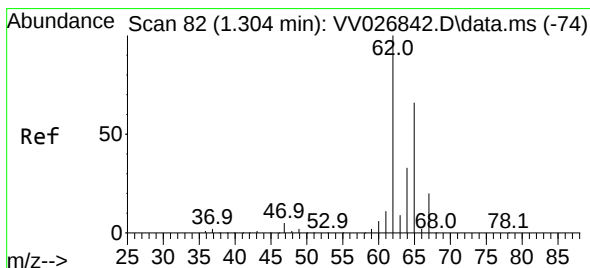
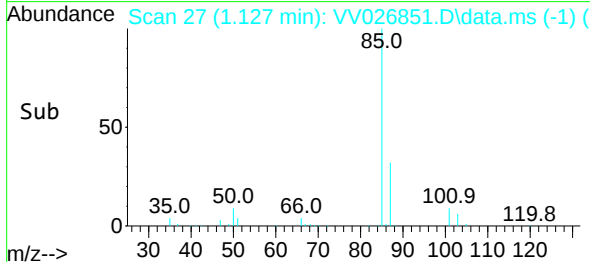
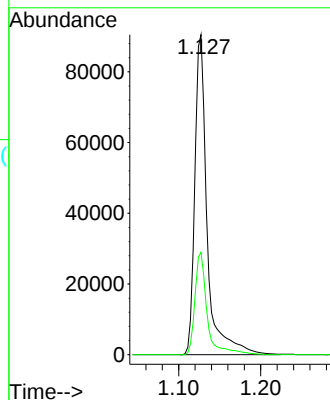
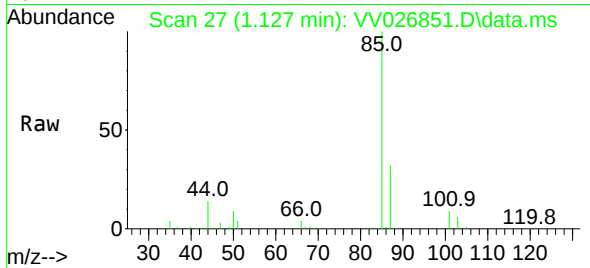
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
 Dichlorodifluoromethane
 Concen: 3.260 ug/L
 RT: 1.127 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VV026851.D
 Acq: 20 Jul 2022 15:56

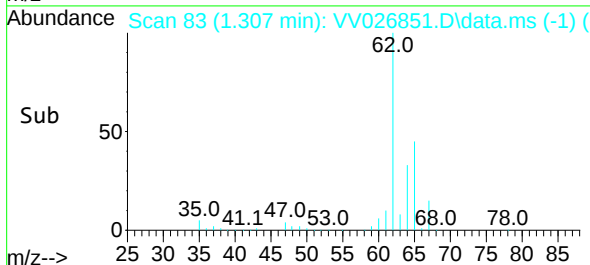
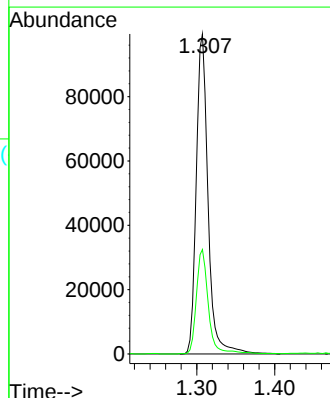
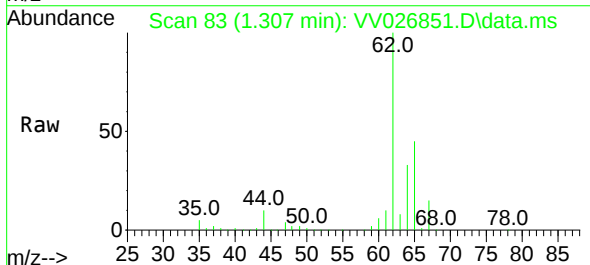
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 MSVOA_V
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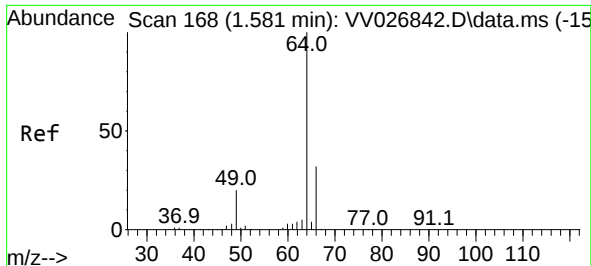
Tgt Ion: 85 Resp: 94681
 Ion Ratio Lower Upper
 85 100
 87 31.7 25.8 38.8



#5
 Vinyl chloride
 Concen: 3.673 ug/L
 RT: 1.307 min Scan# 83
 Delta R.T. 0.003 min
 Lab File: VV026851.D
 Acq: 20 Jul 2022 15:56

Tgt Ion: 62 Resp: 104218
 Ion Ratio Lower Upper
 62 100
 64 32.7 22.9 42.5

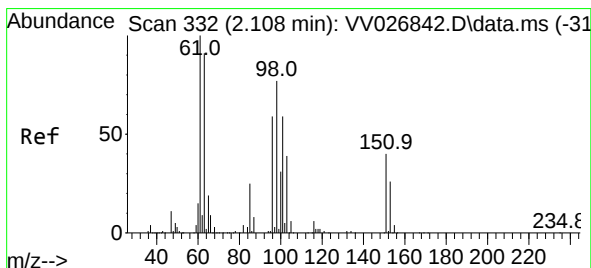
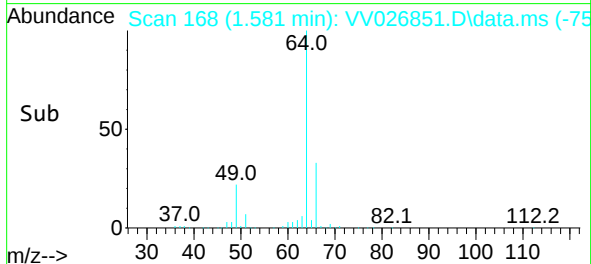
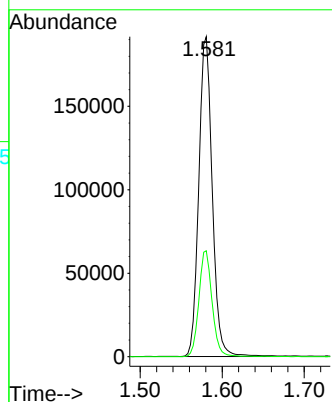
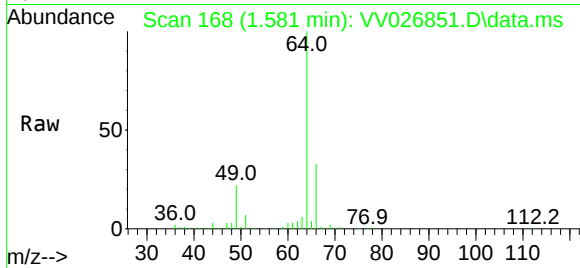




#8
Chloroethane
Concen: 13.052 ug/L
RT: 1.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

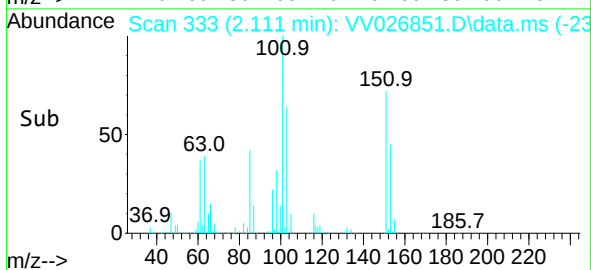
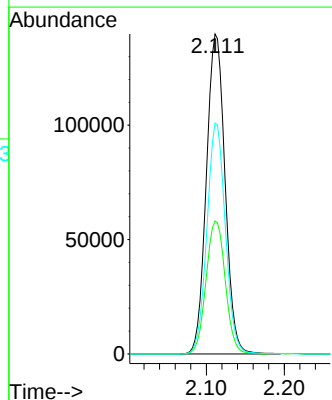
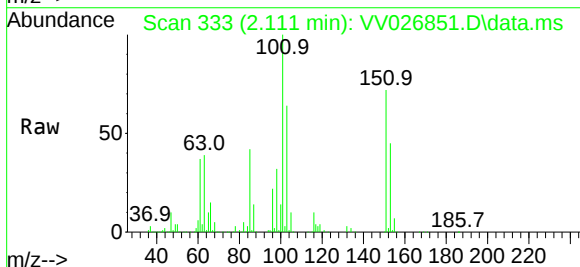
Instrument :
MSVOA_V
ClientSampleId :
GBHX5

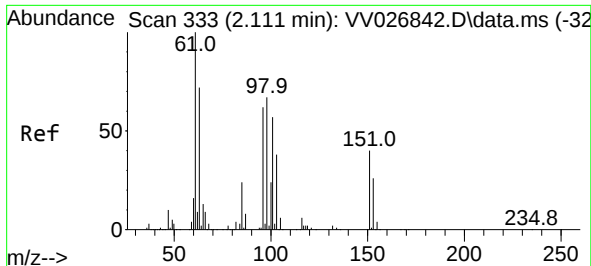
Tgt Ion: 64 Resp: 218212
Ion Ratio Lower Upper
64 100
66 33.1 23.9 44.5



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 11.287 ug/L
RT: 2.111 min Scan# 333
Delta R.T. 0.003 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

Tgt Ion:101 Resp: 233167
Ion Ratio Lower Upper
101 100
85 42.7 35.0 52.4
151 71.4 56.7 85.1





#12

1,1-Dichloroethene

Concen: 2.229 ug/L

RT: 2.114 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV026851.D

Acq: 20 Jul 2022 15:56

Instrument :

MSVOA_V

ClientSampleId :

GBHX5

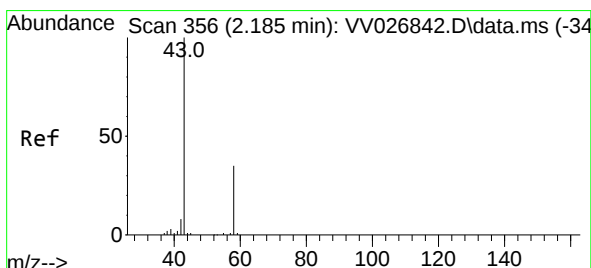
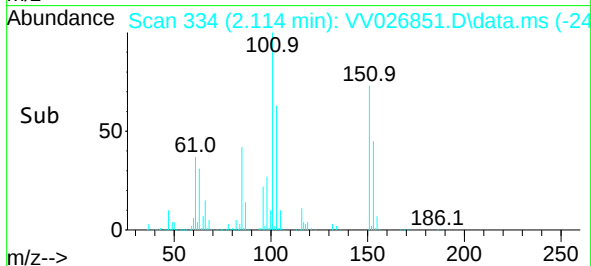
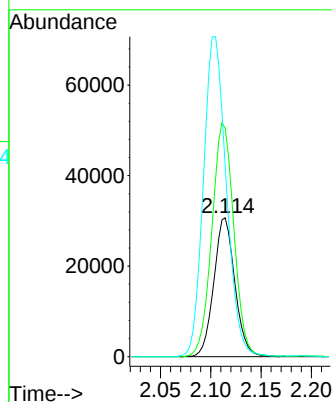
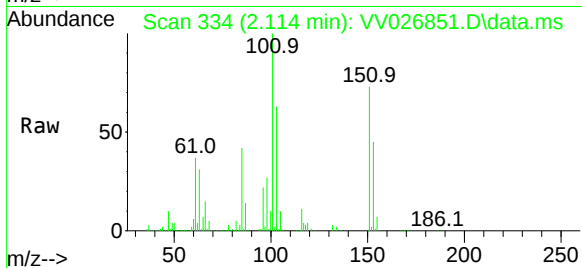
Tgt Ion: 96 Resp: 44647

Ion Ratio Lower Upper

96 100

61 164.6 118.3 219.7

63 137.7 79.9 148.3



#13

Acetone

Concen: 117.382 ug/L

RT: 2.169 min Scan# 351

Delta R.T. -0.016 min

Lab File: VV026851.D

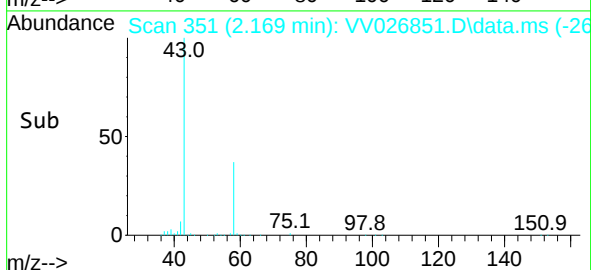
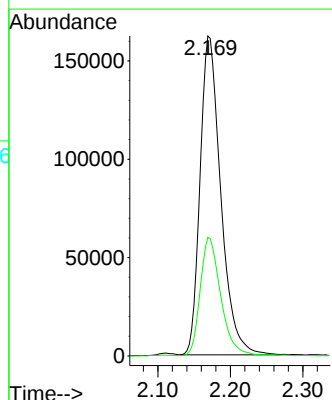
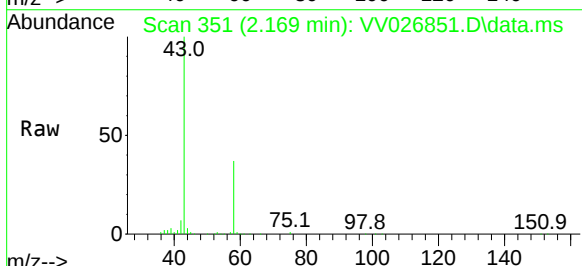
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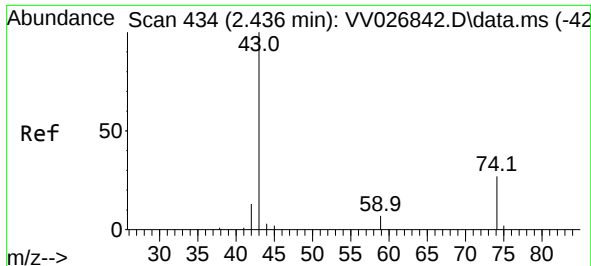
Tgt Ion: 43 Resp: 321232

Ion Ratio Lower Upper

43 100

58 36.7 0.0 20.6#

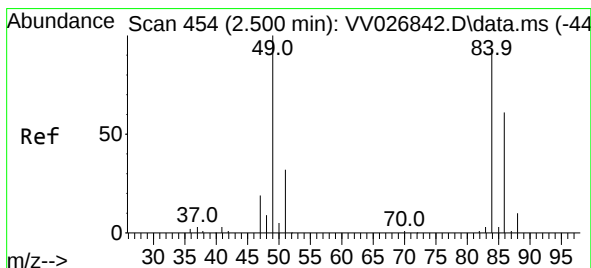
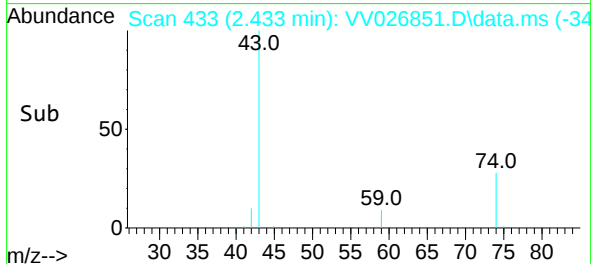
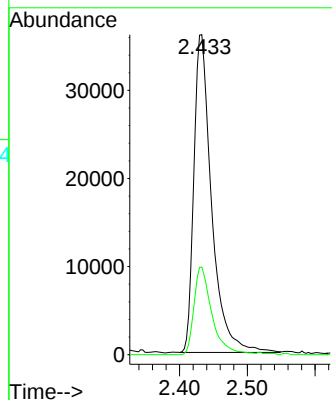
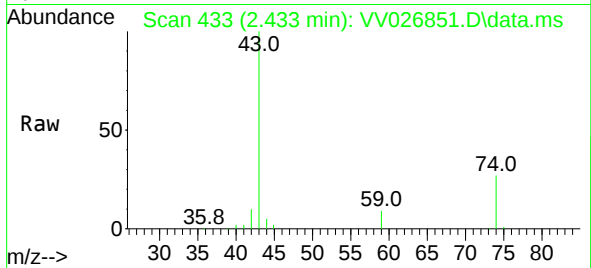




#15
Methyl Acetate
Concen: 11.862 ug/L
RT: 2.433 min Scan# 41
Delta R.T. -0.003 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

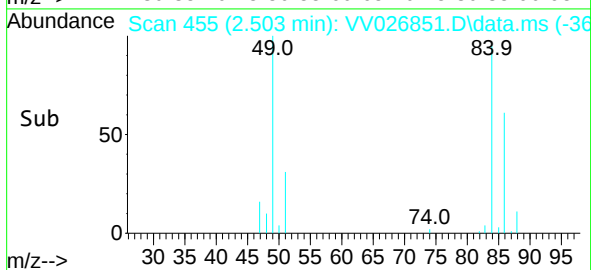
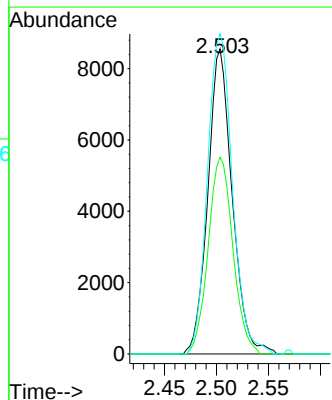
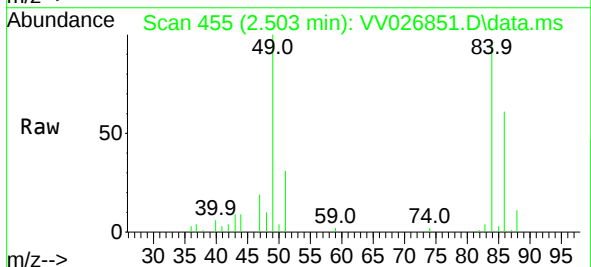
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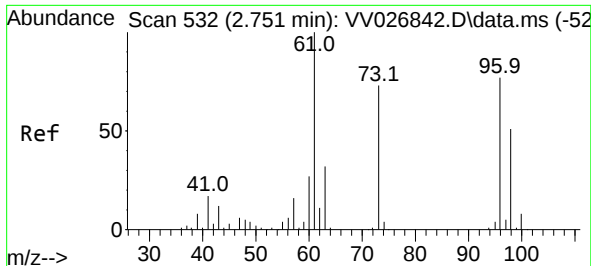
Tgt Ion: 43 Resp: 65652
Ion Ratio Lower Upper
43 100
74 27.9 20.1 30.1



#16
Methylene chloride
Concen: 0.584 ug/L
RT: 2.503 min Scan# 455
Delta R.T. 0.003 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

Tgt Ion: 84 Resp: 13937
Ion Ratio Lower Upper
84 100
86 64.4 44.8 83.2
49 104.9 78.7 146.1

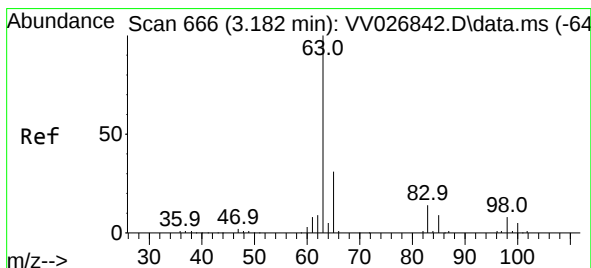
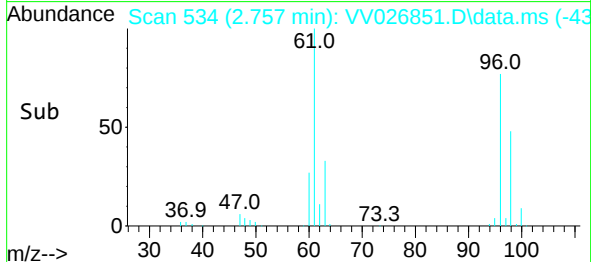
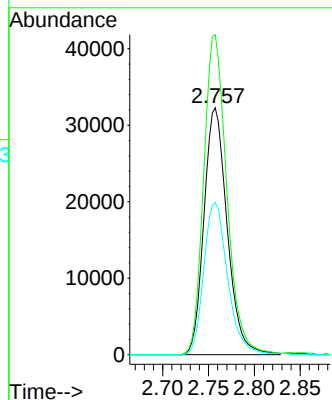
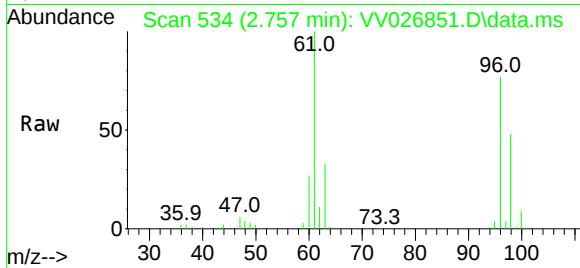




#18
trans-1,2-Dichloroethene
Concen: 3.093 ug/L
RT: 2.757 min Scan# 51
Delta R.T. 0.006 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

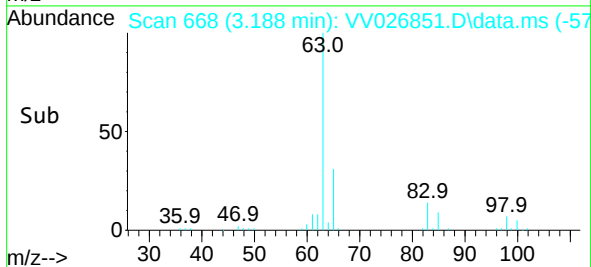
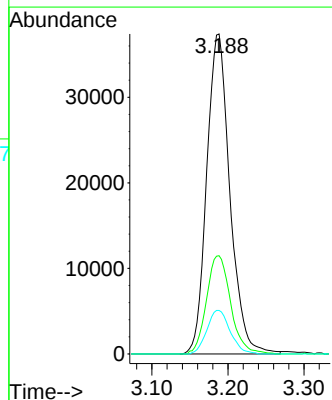
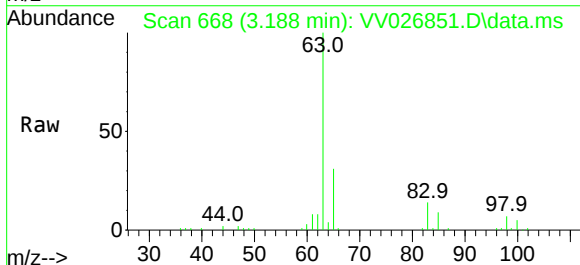
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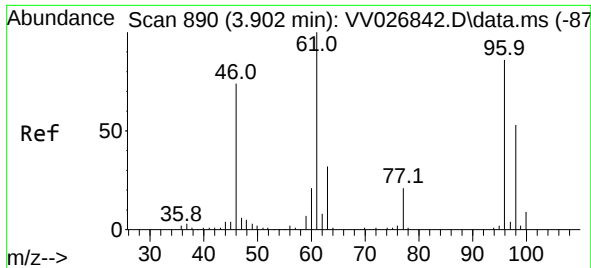
Tgt Ion: 96 Resp: 56943
Ion Ratio Lower Upper
96 100
61 129.6 94.7 175.9
98 61.6 47.4 88.0



#19
1,1-Dichloroethane
Concen: 2.357 ug/L
RT: 3.188 min Scan# 668
Delta R.T. 0.006 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

Tgt Ion: 63 Resp: 79240
Ion Ratio Lower Upper
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65 30.7 22.3 41.3
83 13.6 9.9 18.5

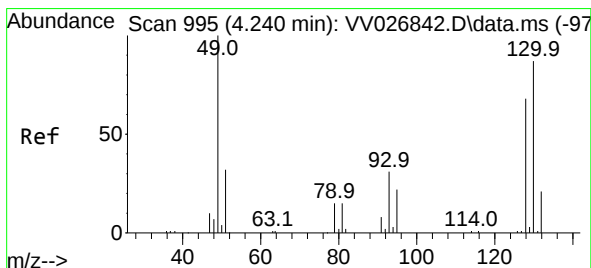
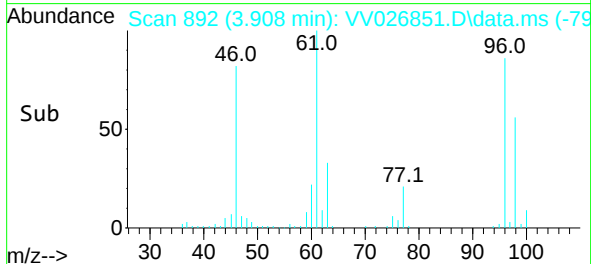
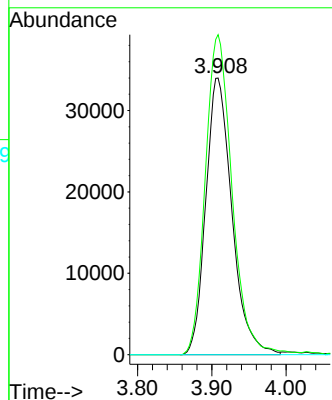
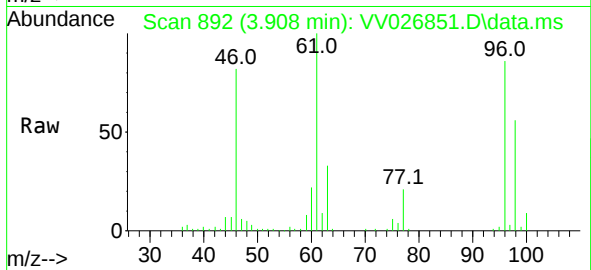




#22
 cis-1,2-Dichloroethene
 Concen: 4.485 ug/L
 RT: 3.908 min Scan# 890
 Delta R.T. 0.006 min
 Lab File: VV026851.D
 Acq: 20 Jul 2022 15:56

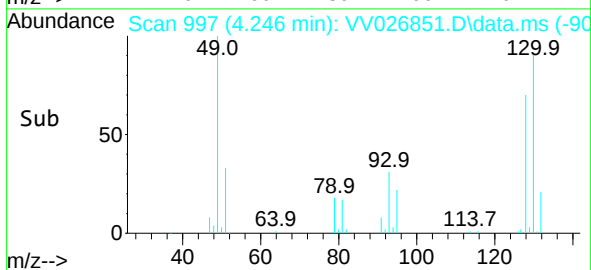
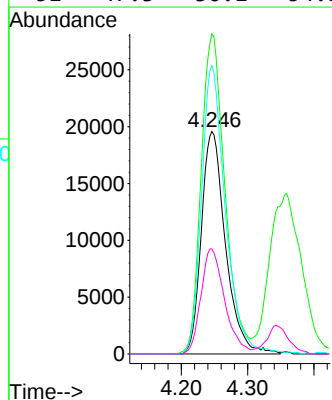
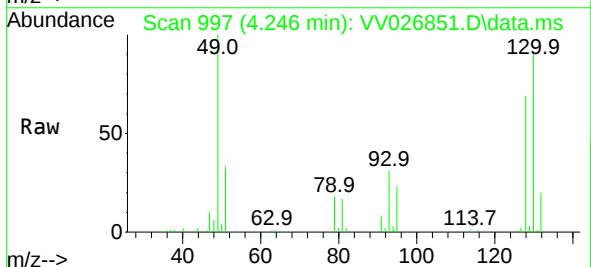
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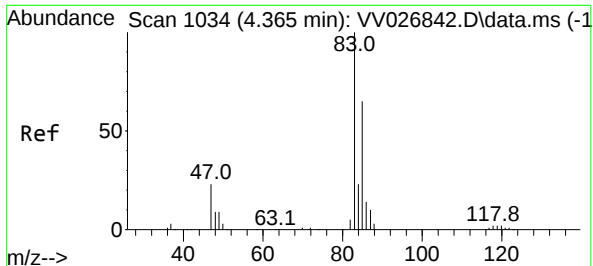
Tgt Ion: 96 Resp: 83277
 Ion Ratio Lower Upper
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 61 115.7 83.9 155.9
 68 0.0 0.0 0.0



#23
 Bromochloromethane
 Concen: 5.782 ug/L
 RT: 4.246 min Scan# 997
 Delta R.T. 0.006 min
 Lab File: VV026851.D
 Acq: 20 Jul 2022 15:56

Tgt Ion: 128 Resp: 49455
 Ion Ratio Lower Upper
 128 100
 49 143.9 107.2 199.2
 130 129.7 87.1 161.7
 51 47.3 36.1 54.1





#25

Chloroform

Concen: 8.944 ug/L

RT: 4.371 min Scan# 1036

Delta R.T. 0.006 min

Lab File: VV026851.D

Acq: 20 Jul 2022 15:56

Instrument :

MSVOA_V

ClientSampleId :

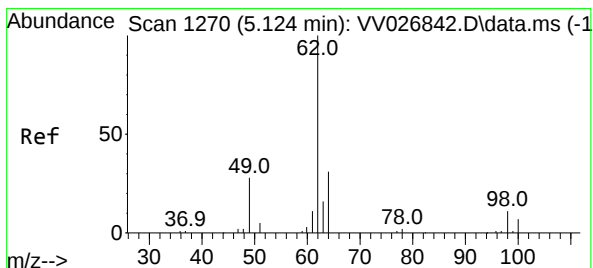
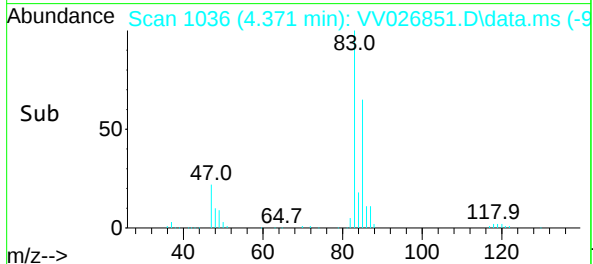
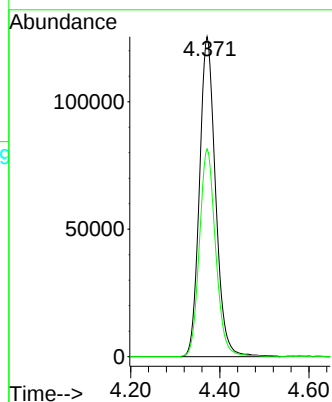
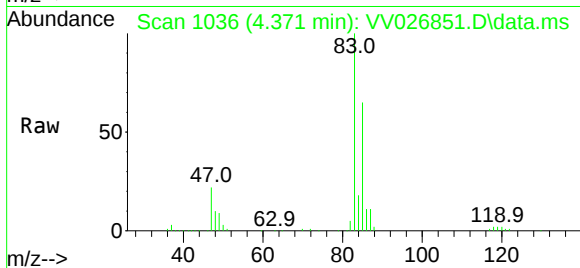
GBHX5

Tgt Ion: 83 Resp: 314906

Ion Ratio Lower Upper

83 100

85 64.9 45.7 84.9



#27

1,2-Dichloroethane

Concen: 2.182 ug/L

RT: 5.133 min Scan# 1273

Delta R.T. 0.010 min

Lab File: VV026851.D

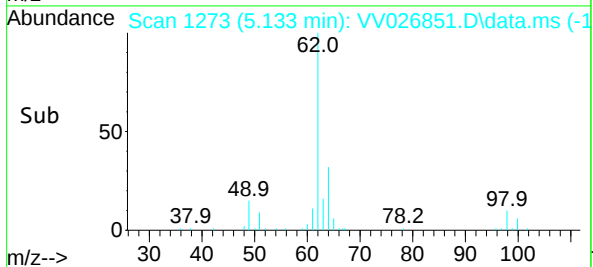
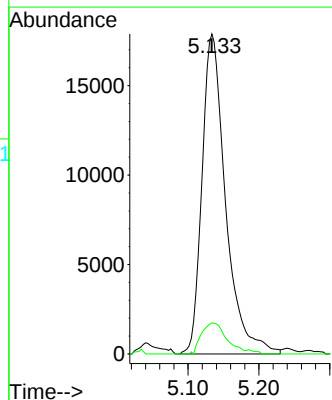
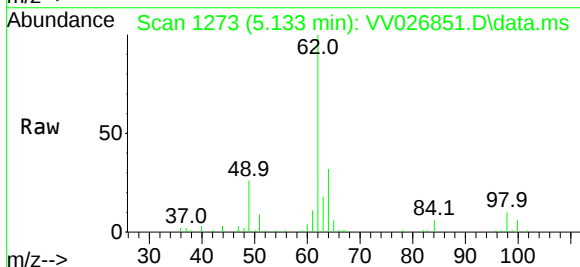
Acq: 20 Jul 2022 15:56

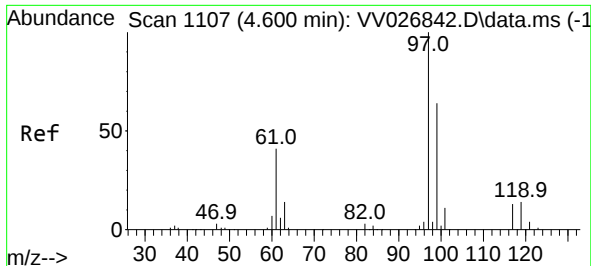
Tgt Ion: 62 Resp: 41402

Ion Ratio Lower Upper

62 100

98 9.7 8.3 12.5





#29

1,1,1-Trichloroethane

Concen: 2.173 ug/L

RT: 4.603 min Scan# 1107

Delta R.T. 0.003 min

Lab File: VV026851.D

Acq: 20 Jul 2022 15:56

Instrument :

MSVOA_V

ClientSampleId :

GBHX5

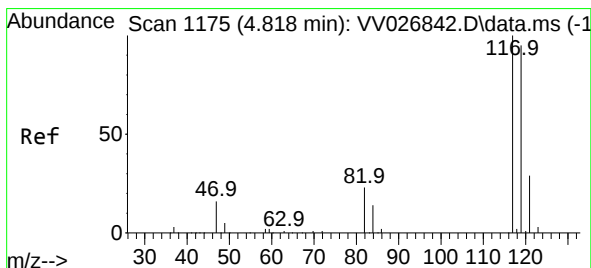
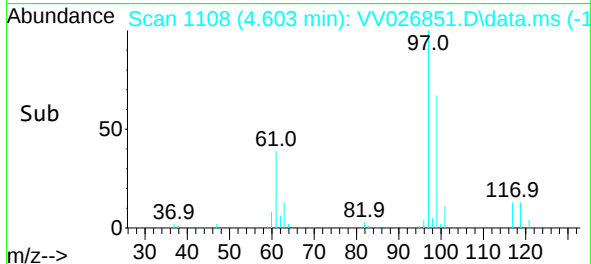
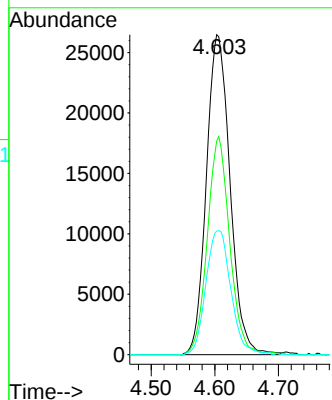
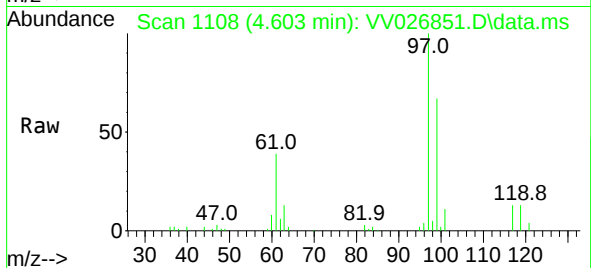
Tgt Ion: 97 Resp: 68477

Ion Ratio Lower Upper

97 100

99 64.2 51.3 76.9

61 40.8 35.1 52.7



#31

Carbon tetrachloride

Concen: 3.265 ug/L

RT: 4.825 min Scan# 1177

Delta R.T. 0.006 min

Lab File: VV026851.D

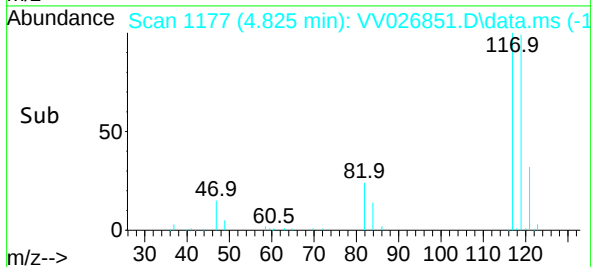
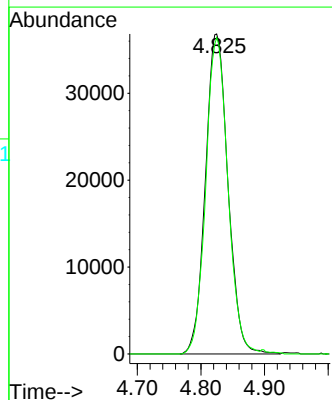
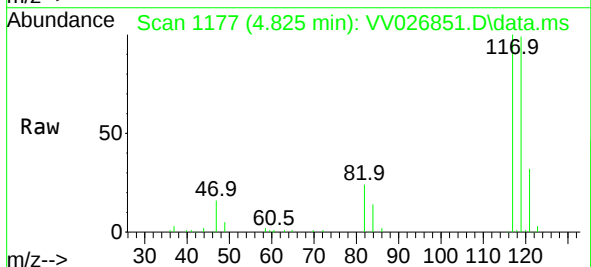
Acq: 20 Jul 2022 15:56

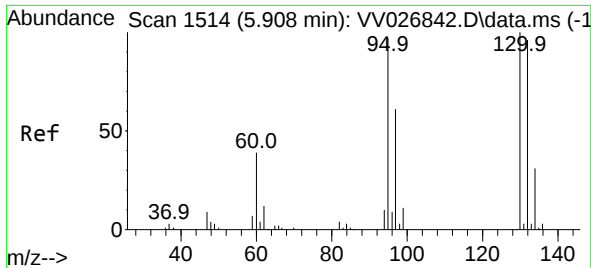
Tgt Ion: 117 Resp: 90862

Ion Ratio Lower Upper

117 100

119 96.7 75.1 112.7

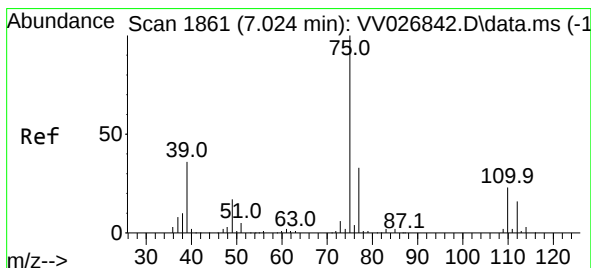
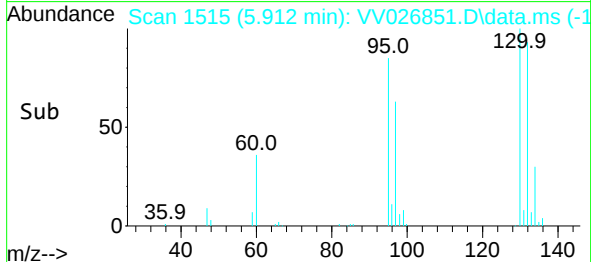
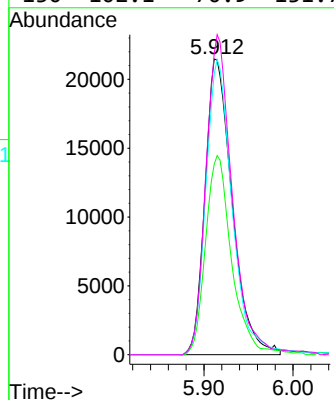
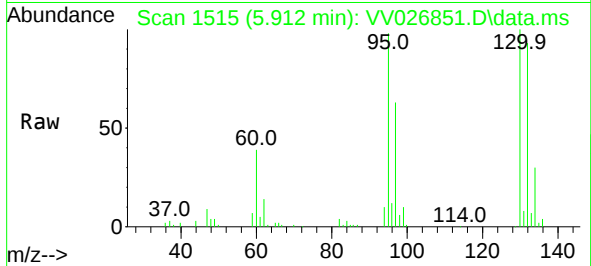




#34
Trichloroethene
Concen: 2.360 ug/L
RT: 5.912 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

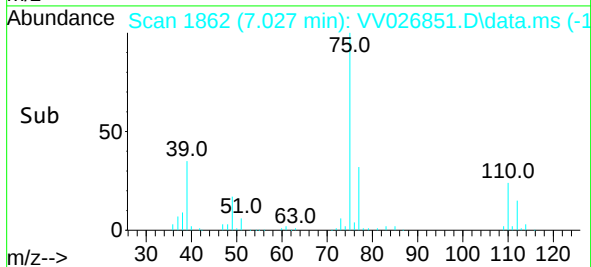
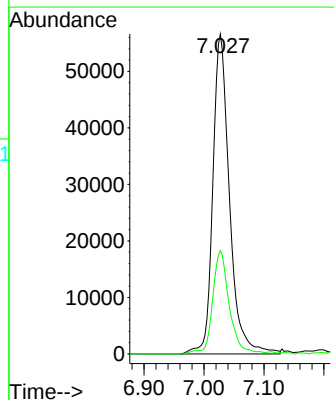
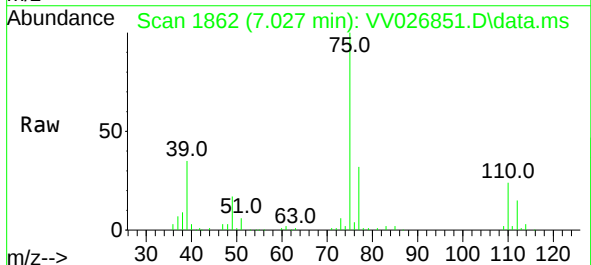
Instrument :
MSVOA_V
ClientSampleId :
GBHX5

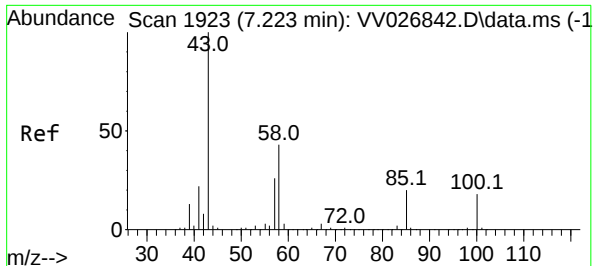
Tgt Ion: 95 Resp: 45336
Ion Ratio Lower Upper
95 100
97 64.5 44.6 82.8
132 95.2 70.2 130.4
130 102.1 70.9 131.7



#39
cis-1,3-Dichloropropene
Concen: 4.695 ug/L
RT: 7.027 min Scan# 1862
Delta R.T. 0.003 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

Tgt Ion: 75 Resp: 109077
Ion Ratio Lower Upper
75 100
77 32.3 21.4 39.8





#40

4-Methyl-2-pentanone

Concen: 60.414 ug/L

RT: 7.227 min Scan# 1923

Delta R.T. 0.003 min

Lab File: VV026851.D

Acq: 20 Jul 2022 15:56

Instrument :

MSVOA_V

ClientSampleId :

GBHX5

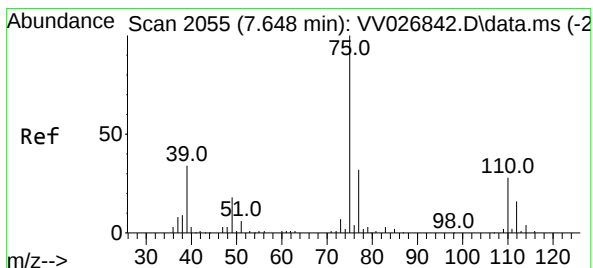
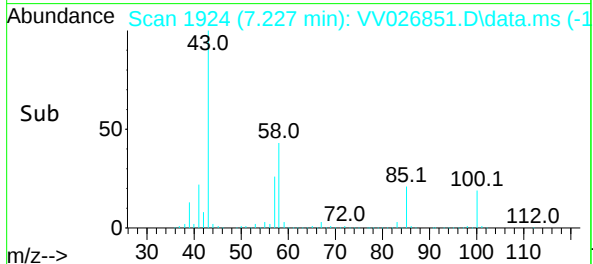
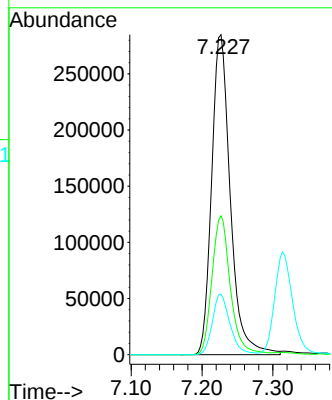
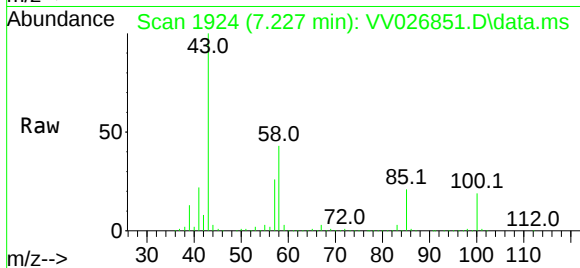
Tgt Ion: 43 Resp: 521671

Ion Ratio Lower Upper

43 100

58 42.8 34.6 51.8

100 18.0 13.6 20.4



#44

trans-1,3-Dichloropropene

Concen: 2.407 ug/L

RT: 7.651 min Scan# 2056

Delta R.T. 0.003 min

Lab File: VV026851.D

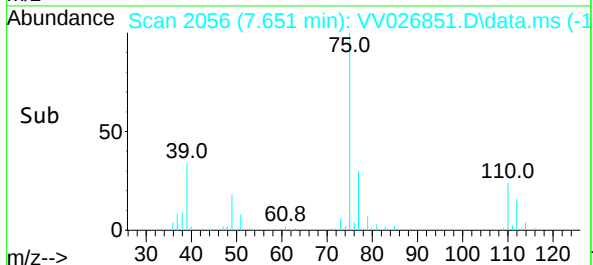
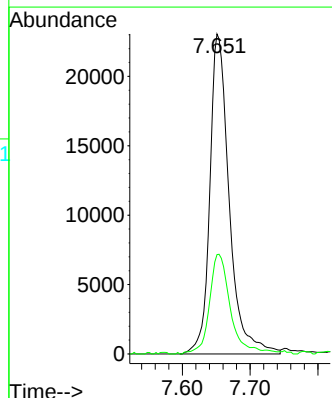
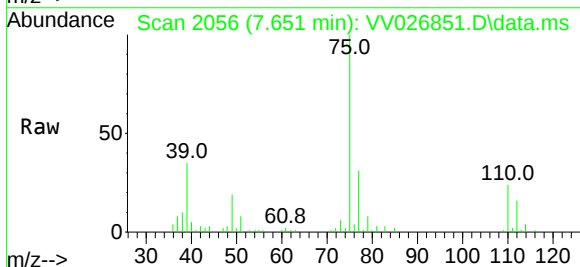
Acq: 20 Jul 2022 15:56

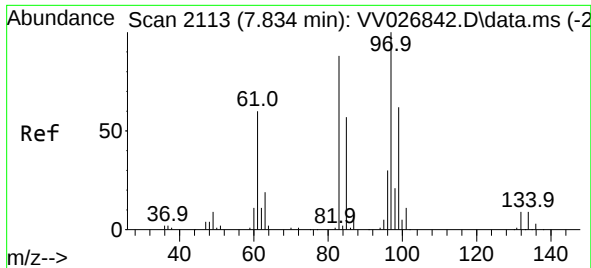
Tgt Ion: 75 Resp: 45911

Ion Ratio Lower Upper

75 100

77 31.1 22.7 42.3

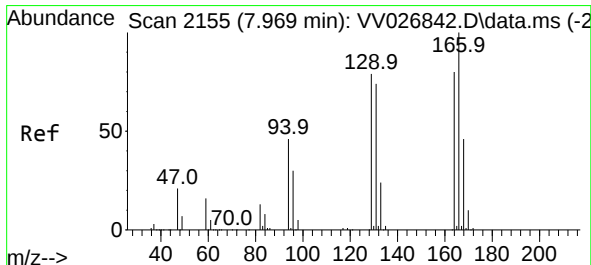
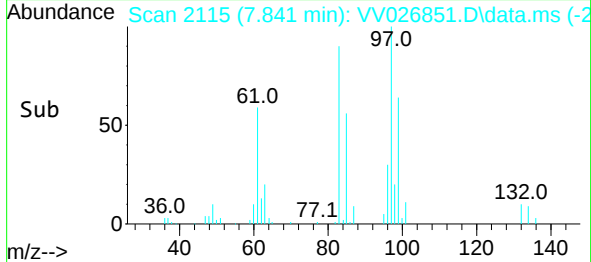
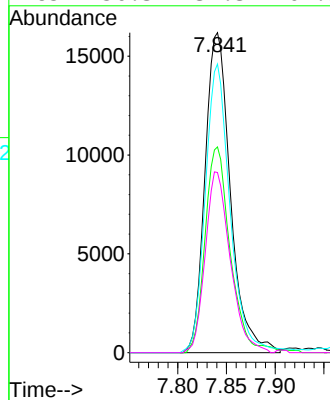
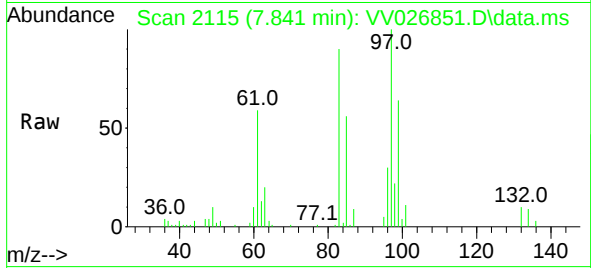




#45
1,1,2-Trichloroethane
Concen: 2.152 ug/L
RT: 7.841 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

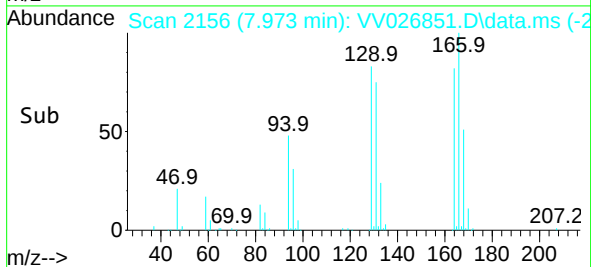
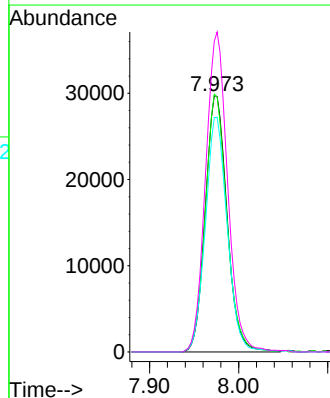
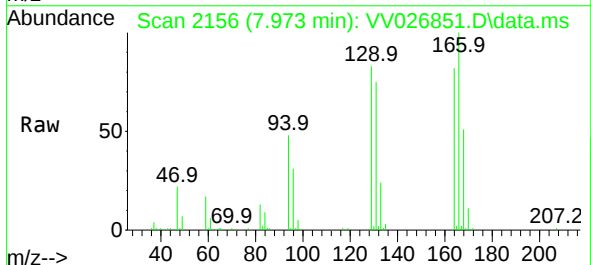
Instrument :
MSVOA_V
ClientSampleId :
GBHX5

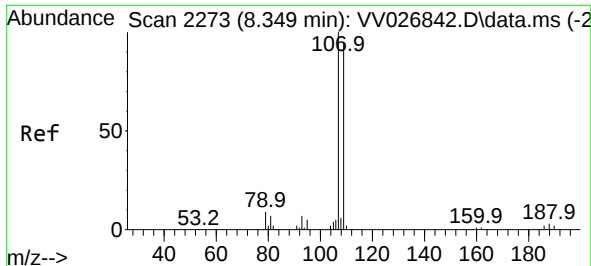
Tgt Ion: 97	Resp: 29410
Ion Ratio	Lower Upper
97 100	
99 64.3	41.9 77.9
83 90.2	58.1 107.9
85 56.3	37.3 69.3



#47
Tetrachloroethene
Concen: 3.352 ug/L
RT: 7.973 min Scan# 2156
Delta R.T. 0.003 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

Tgt	Ion:164	Resp:	50517
Ion	Ratio	Lower	Upper
164	100		
129	100.6	67.8	125.8
131	91.5	65.9	122.5
166	121.3	88.8	164.8





#50

1,2-Dibromoethane

Concen: 5.368 ug/L

RT: 8.352 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV026851.D

Acq: 20 Jul 2022 15:56

Instrument :

MSVOA_V

ClientSampleId :

GBHX5

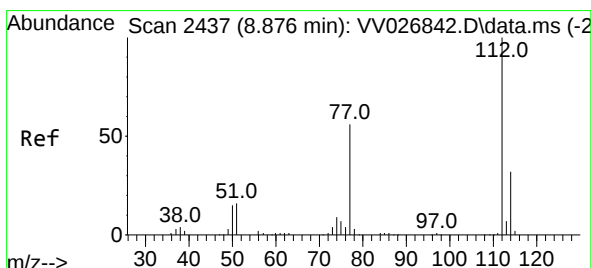
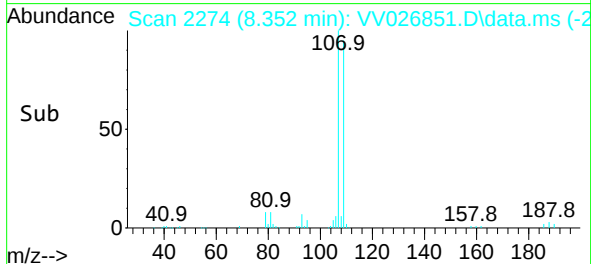
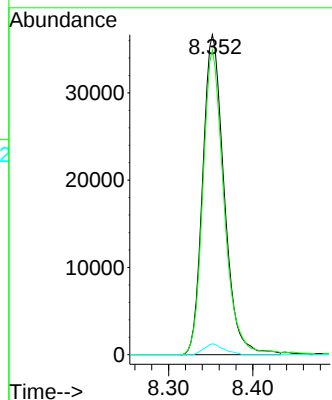
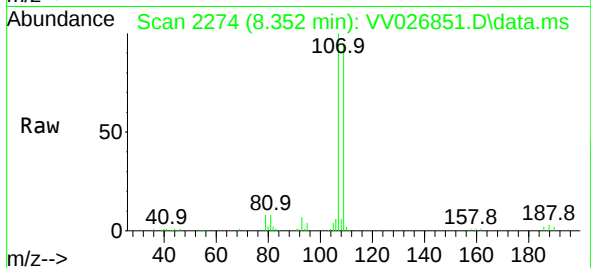
Tgt Ion:107 Resp: 64903

Ion Ratio Lower Upper

107 100

109 95.2 68.0 126.4

188 3.4 2.8 4.2



#51

Chlorobenzene

Concen: 6.557 ug/L

RT: 8.879 min Scan# 2438

Delta R.T. 0.003 min

Lab File: VV026851.D

Acq: 20 Jul 2022 15:56

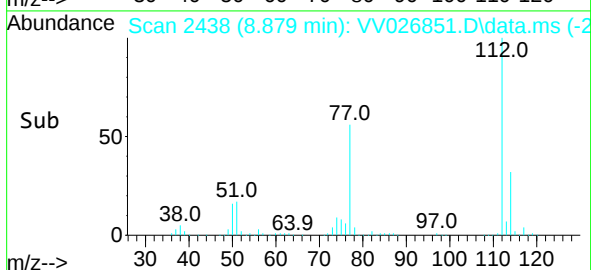
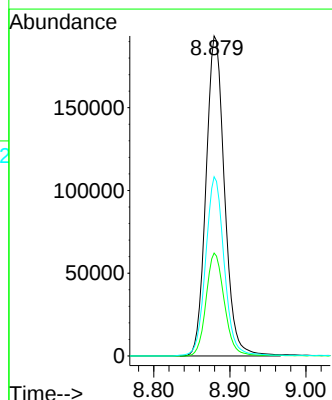
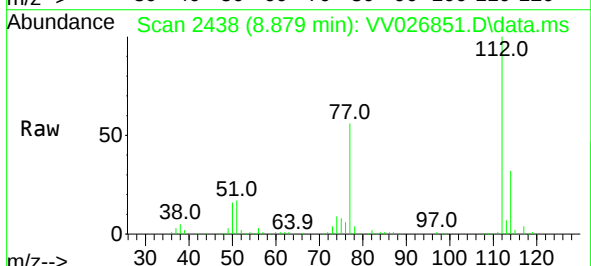
Tgt Ion:112 Resp: 327332

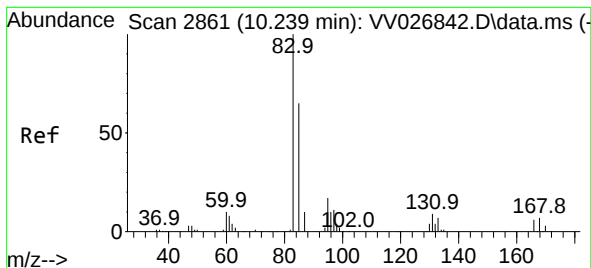
Ion Ratio Lower Upper

112 100

114 32.1 22.7 42.1

77 56.0 46.6 70.0

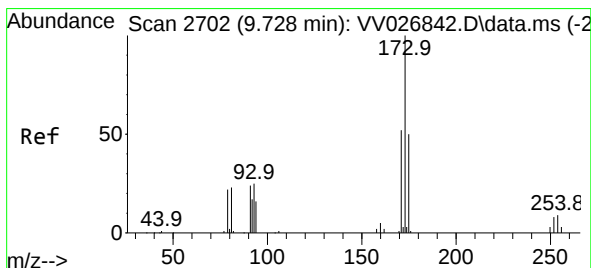
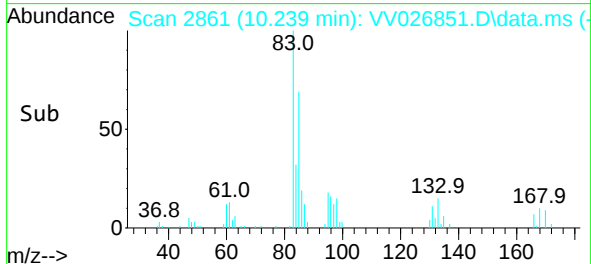
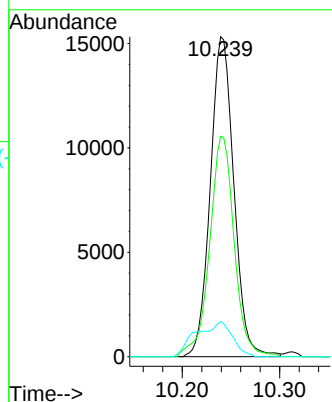
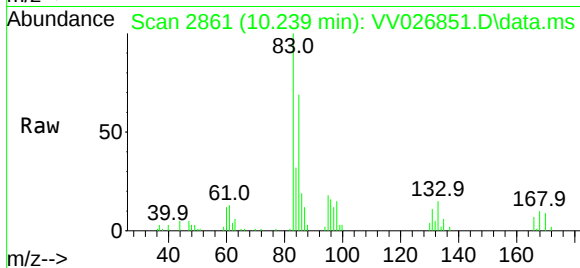




#57
1,1,2,2-Tetrachloroethane
Concen: 1.592 ug/L
RT: 10.239 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

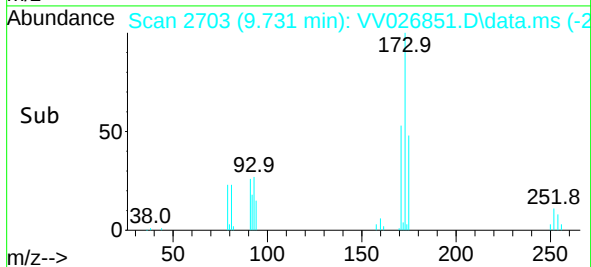
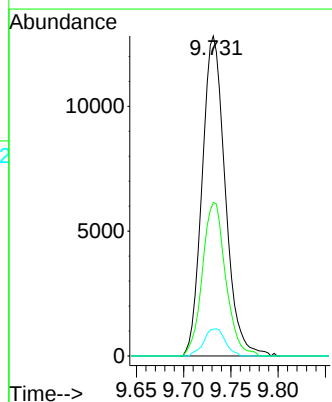
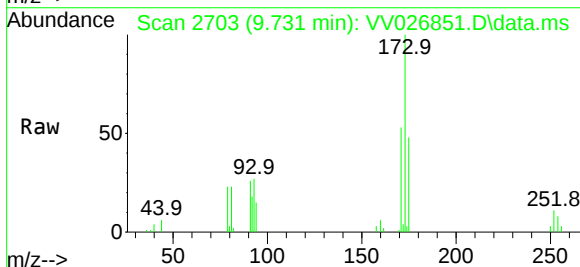
Instrument :
MSVOA_V
ClientSampleId :
GBHX5

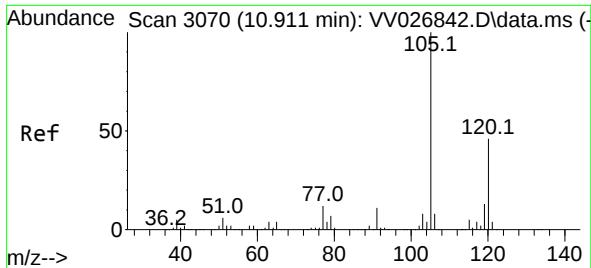
Tgt Ion: 83 Resp: 25745
Ion Ratio Lower Upper
83 100
85 68.9 43.6 81.0
131 11.0 7.4 11.2



#59
Bromoform
Concen: 2.874 ug/L
RT: 9.731 min Scan# 2703
Delta R.T. 0.003 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

Tgt Ion: 173 Resp: 21791
Ion Ratio Lower Upper
173 100
175 48.3 40.7 61.1
254 7.9 6.5 9.7

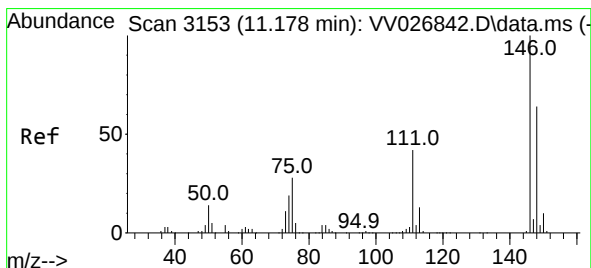
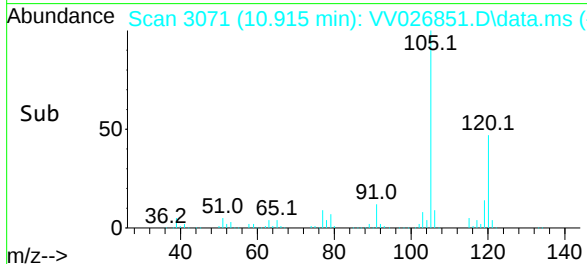
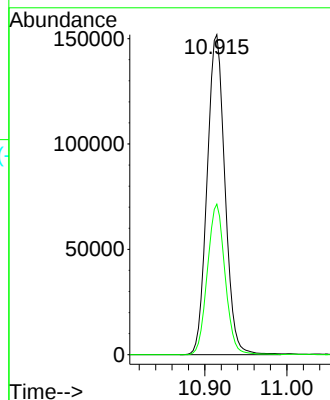
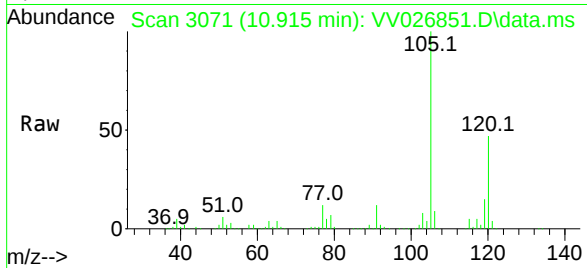




#63
1,2,4-Trimethylbenzene
Concen: 3.851 ug/L
RT: 10.915 min Scan# 3070
Delta R.T. 0.003 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

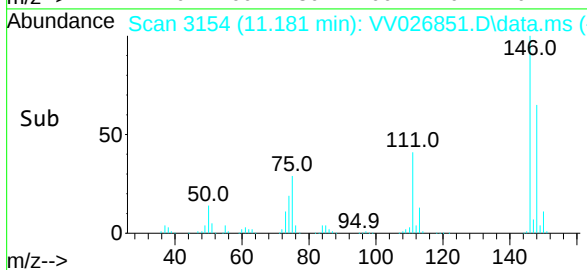
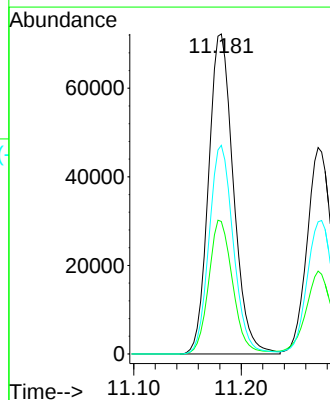
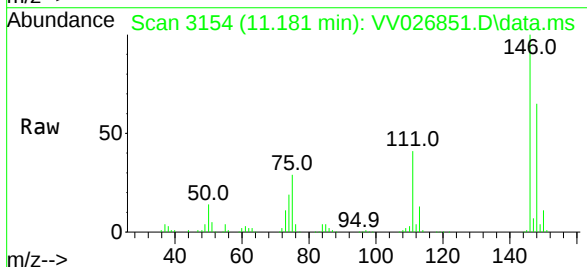
Instrument :
MSVOA_V
ClientSampleId :
GBHX5

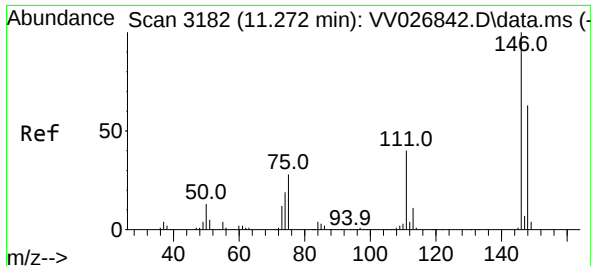
Tgt Ion:105 Resp: 229367
Ion Ratio Lower Upper
105 100
120 46.7 36.8 55.2



#64
1,3-Dichlorobenzene
Concen: 3.221 ug/L
RT: 11.181 min Scan# 3154
Delta R.T. 0.003 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

Tgt Ion:146 Resp: 116347
Ion Ratio Lower Upper
146 100
111 41.4 27.9 51.7
148 65.2 44.9 83.5

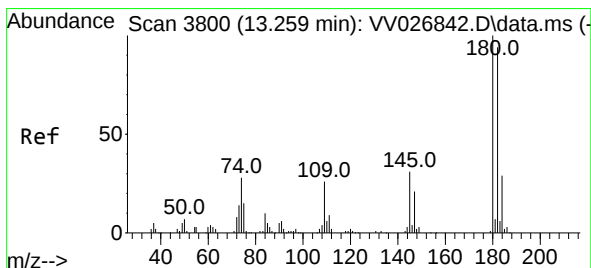
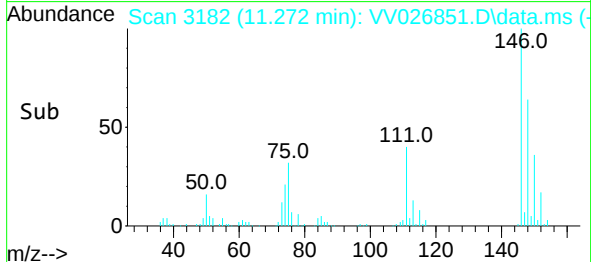
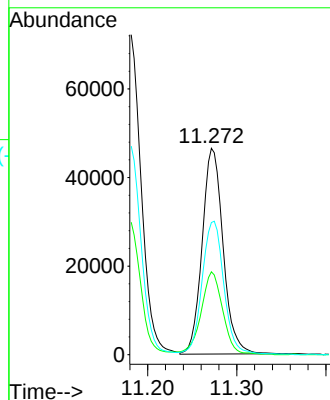
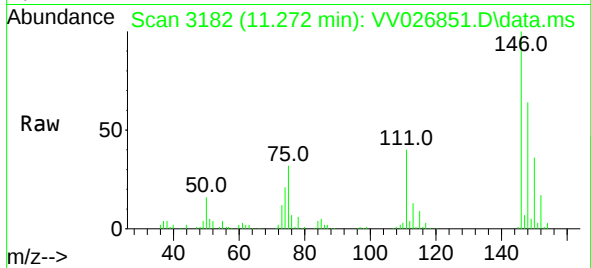




#65
1,4-Dichlorobenzene
Concen: 2.072 ug/L
RT: 11.272 min Scan# 3182
Delta R.T. -0.000 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

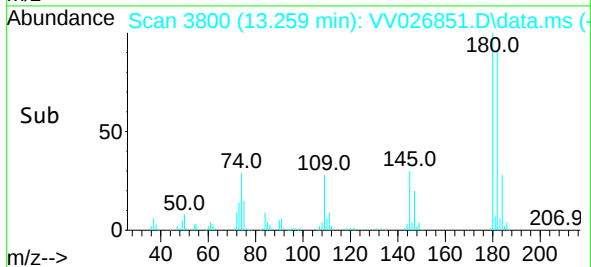
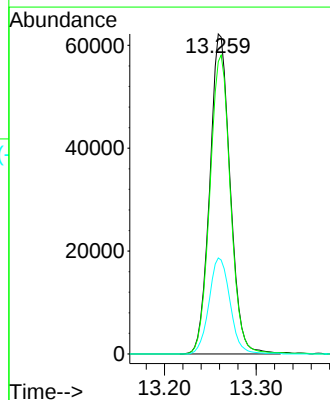
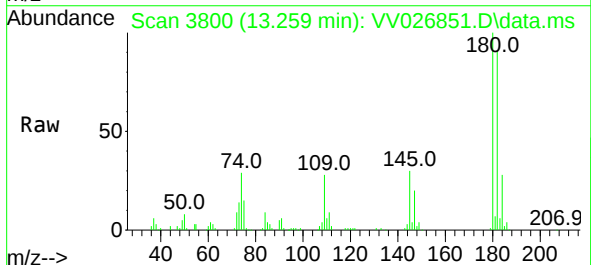
Instrument :
MSVOA_V
ClientSampleId :
GBHX5

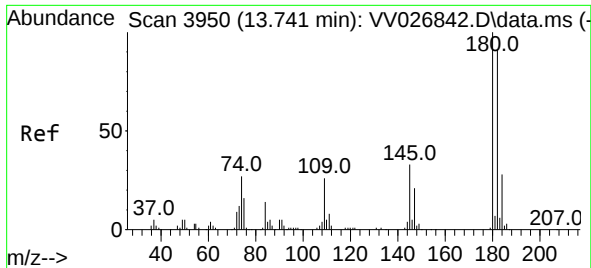
Tgt Ion:146 Resp: 76084
Ion Ratio Lower Upper
146 100
111 40.1 26.8 49.8
148 64.1 43.3 80.5



#70
1,2,4-trichlorobenzene
Concen: 4.954 ug/L
RT: 13.259 min Scan# 3800
Delta R.T. -0.000 min
Lab File: VV026851.D
Acq: 20 Jul 2022 15:56

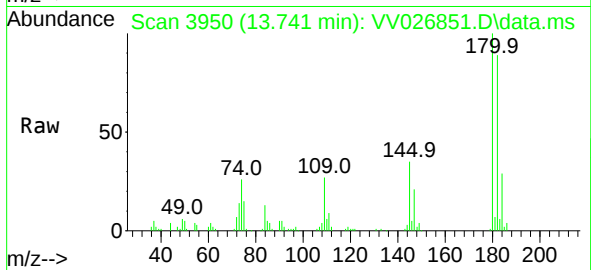
Tgt Ion:180 Resp: 96172
Ion Ratio Lower Upper
180 100
182 94.5 74.7 112.1
145 30.9 24.7 37.1





#72
 1,2,3-Trichlorobenzene
 Concen: 2.853 ug/L
 RT: 13.741 min Scan# 3950
 Delta R.T. -0.000 min
 Lab File: VV026851.D
 Acq: 20 Jul 2022 15:56

Instrument :
 MSVOA_V
 ClientSampleId :
 GBHX5



Tgt Ion:	180	Resp:	51549
Ion Ratio	Lower	Upper	
180	100		
182	92.9	75.0	112.4
145	32.5	26.0	39.0

