

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW050523\
 Data File : VW030996.D
 Acq On : 05 May 2023 15:58
 Operator : SY/MD
 Sample : 02613-04
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AA3

Quant Time: May 06 01:48:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR042823WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat May 06 01:44:36 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	116860	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	111674	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	51298	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	42273	4.391	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.800%
7) Chloroethane-d5	1.536	69	37100	4.724	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.400%
11) 1,1-Dichloroethene-d2	2.063	65	22787	4.472	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.400%
20) 2-Butanone-d5	3.841	46	98875	57.912	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.820%
24) Chloroform-d	4.259	84	96417	5.039	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.800%
26) 1,2-Dichloroethane-d4	4.957	65	49544	5.093	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.800%
32) Benzene-d6	4.970	84	155700	4.756	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.200%
36) 1,2-Dichloropropane-d6	5.998	67	48360	5.081	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.600%
41) Toluene-d8	7.252	98	125964	4.041	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.800%
43) trans-1,3-Dichloroprop...	7.564	79	18424	5.164	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	103.200%
46) 2-Hexanone-d5	8.037	63	70588	56.467	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	112.940%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	38698	5.609	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	112.200%
66) 1,2-Dichlorobenzene-d4	11.571	152	49449	5.171	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	2712	0.250	ug/L #	82
5) Vinyl chloride	1.285	62	713	0.079	ug/L #	1
6) Bromomethane	1.491	94	697	0.161	ug/L	76
10) 1,1,2-Trichloro-1,2,2-...	2.066	101	1153	0.135	ug/L #	58
12) 1,1-Dichloroethene	2.073	96	81965	10.422	ug/L #	74
13) Acetone	2.182	43	4066	2.788	ug/L	62
16) Methylene chloride	2.458	84	2181	0.245	ug/L	97
19) 1,1-Dichloroethane	3.121	63	75312	5.429	ug/L	99
22) cis-1,2-Dichloroethene	3.841	96	4052	0.535	ug/L	73
27) 1,2-Dichloroethane	5.069	62	1675	0.179	ug/L #	13
29) 1,1,1-Trichloroethane	4.523	97	327749	23.356	ug/L	99
31) Carbon tetrachloride	4.526	117	40529	3.215	ug/L	98
34) Trichloroethene	5.841	95	79037	10.555	ug/L	99
48) 2-Hexanone	8.098	43	9773	3.691	ug/L #	92
51) Chlorobenzene	8.828	112	2323	0.113	ug/L	98
61) 1,2,3-Trichloropropane	11.130	75	698	0.217	ug/L #	58
62) 1,3,5-Trimethylbenzene	10.863	105	4404	0.196	ug/L	92
63) 1,2,4-Trimethylbenzene	10.863	105	4404	0.193	ug/L	96
64) 1,3-Dichlorobenzene	11.127	146	2313	0.163	ug/L	96

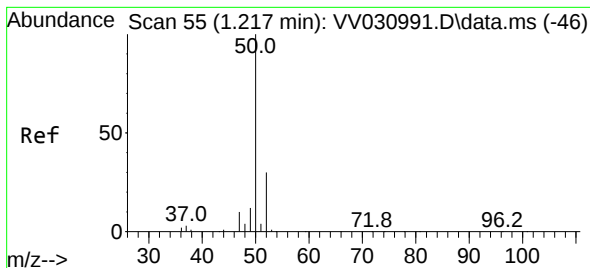
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 Data File : VV030996.D
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.217	146	1915	0.134	ug/L	93
69) 1,3,5-Trichlorobenzene	12.593	180	2494	0.222	ug/L	91
70) 1,2,4-trichlorobenzene	13.207	180	2088	0.242	ug/L #	83
72) 1,2,3-Trichlorobenzene	13.693	180	1169	0.160	ug/L	97

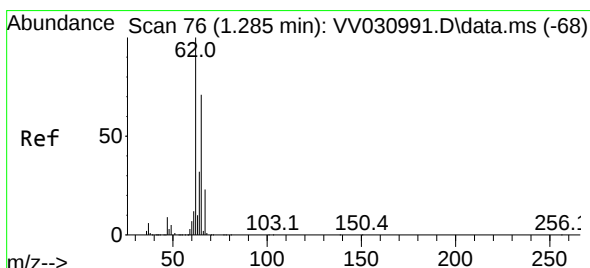
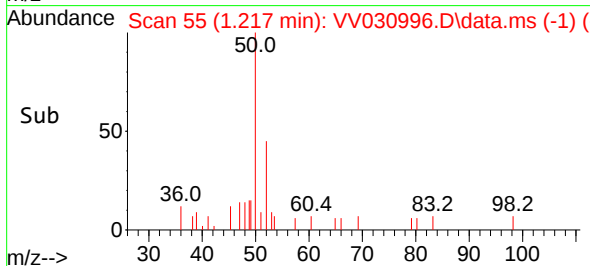
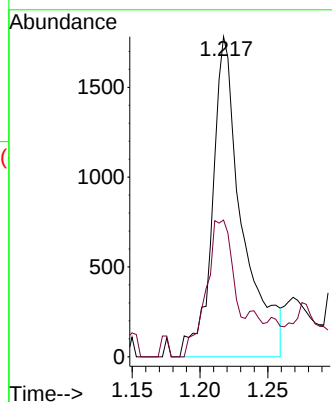
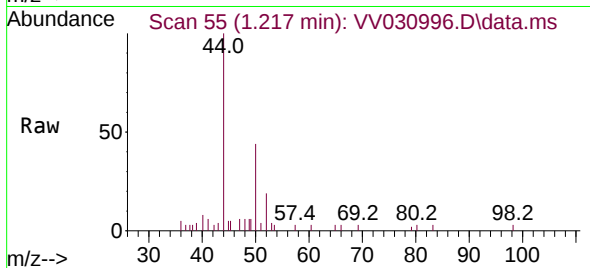
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#3
Chloromethane
Concen: 0.250 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.000 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

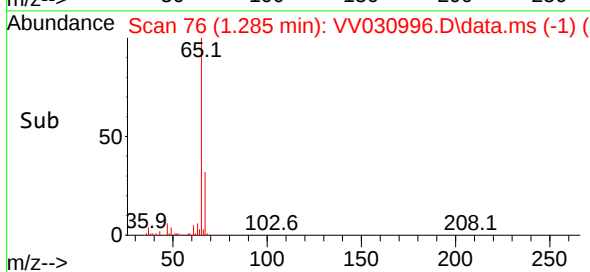
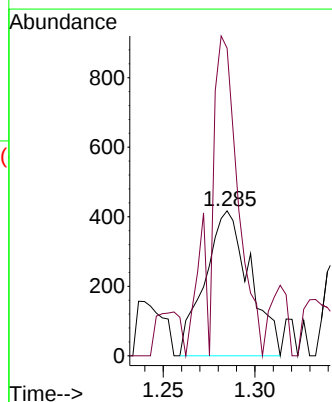
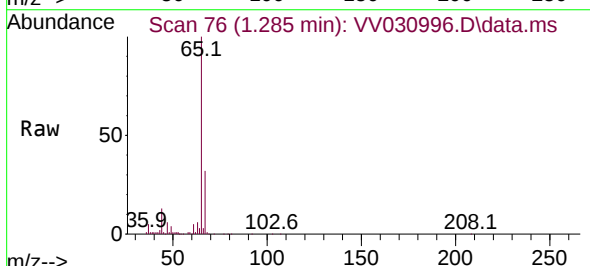
Instrument :
MSVOA_V
ClientSampleId :
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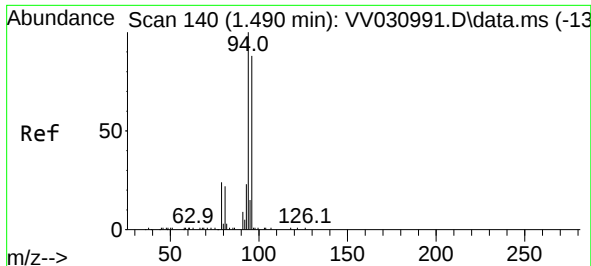
Tgt Ion: 50 Resp: 2712
Ion Ratio Lower Upper
50 100
52 42.7 22.8 42.4#



#5
Vinyl chloride
Concen: 0.079 ug/L
RT: 1.285 min Scan# 76
Delta R.T. 0.000 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

Tgt Ion: 62 Resp: 713
Ion Ratio Lower Upper
62 100
64 212.2 22.8 42.4#

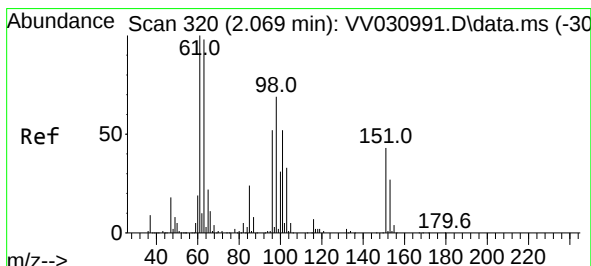
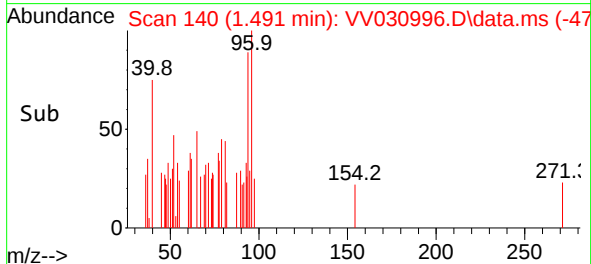
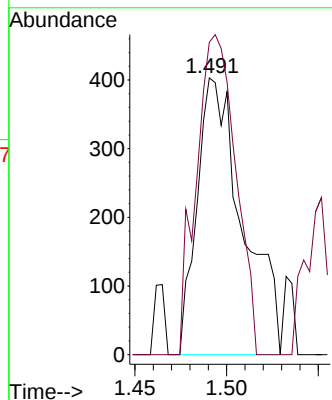
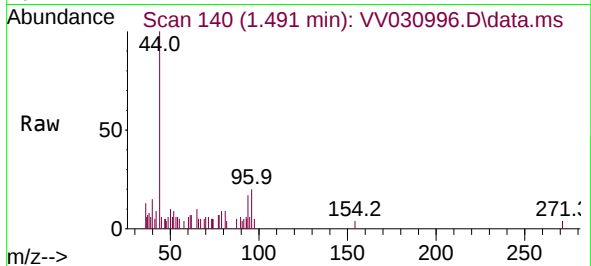




#6
Bromomethane
Concen: 0.161 ug/L
RT: 1.491 min Scan# 140
Delta R.T. 0.000 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

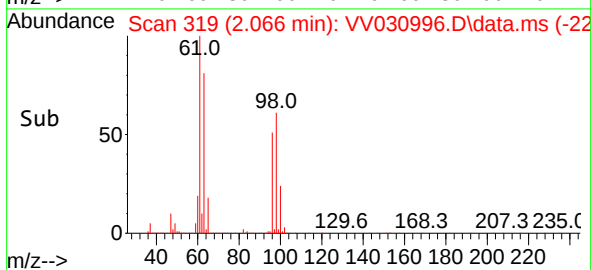
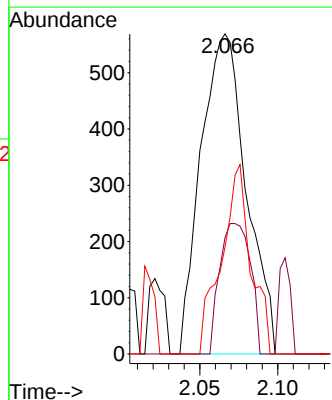
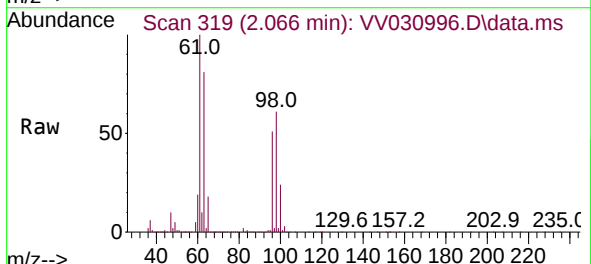
Instrument :
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ClientSampleId :
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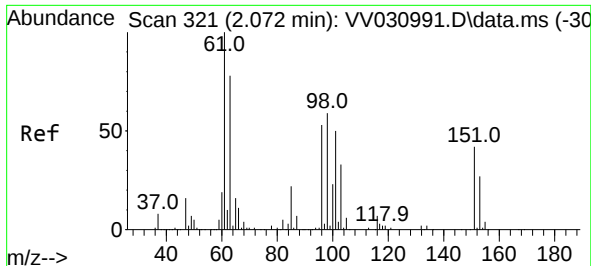
Tgt Ion: 94 Resp: 697
Ion Ratio Lower Upper
94 100
96 112.9 63.4 117.8



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.135 ug/L
RT: 2.066 min Scan# 319
Delta R.T. -0.003 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

Tgt Ion: 101 Resp: 1153
Ion Ratio Lower Upper
101 100
85 27.7 38.7 58.1#
151 38.5 65.1 97.7#

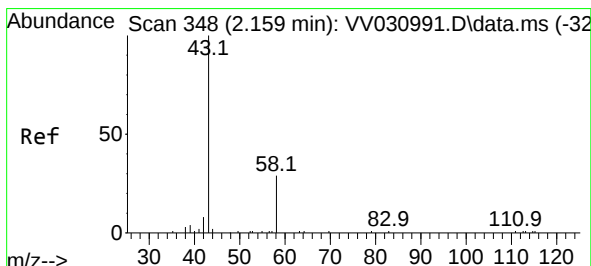
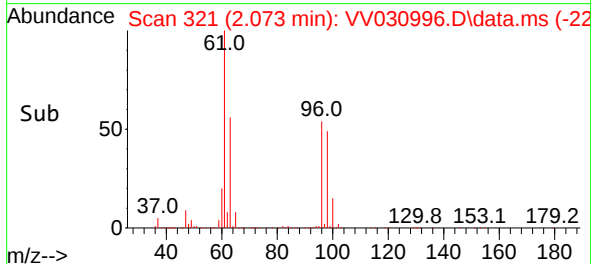
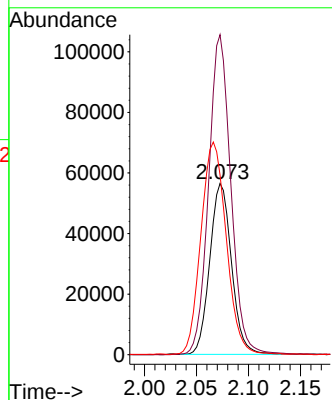
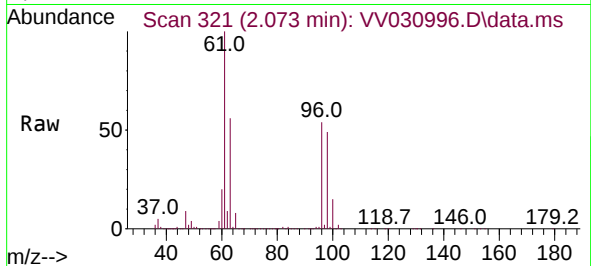




#12
1,1-Dichloroethene
Concen: 10.422 ug/L
RT: 2.073 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

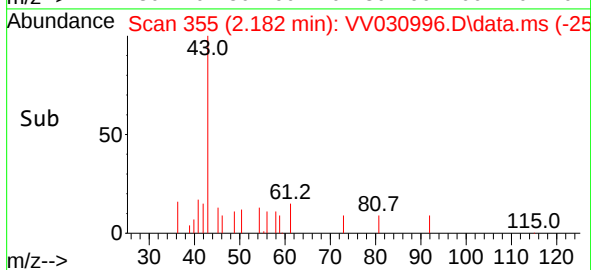
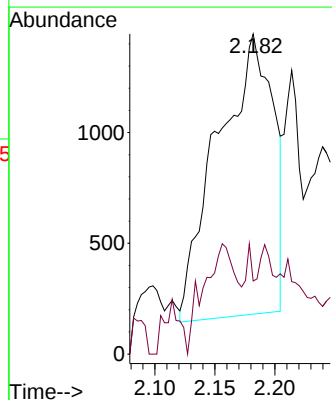
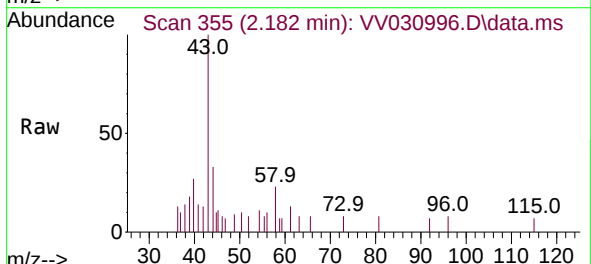
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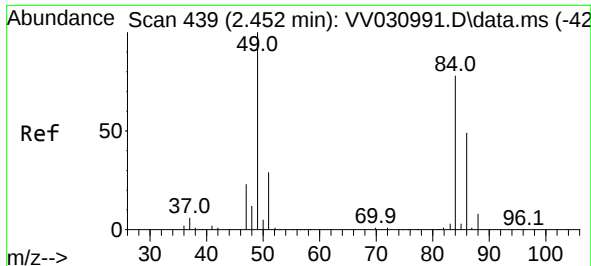
Tgt Ion: 96 Resp: 81965
Ion Ratio Lower Upper
96 100
61 186.9 135.6 251.8
63 104.9 121.1 224.9#



#13
Acetone
Concen: 2.788 ug/L
RT: 2.182 min Scan# 355
Delta R.T. 0.023 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

Tgt Ion: 43 Resp: 4066
Ion Ratio Lower Upper
43 100
58 1.5 0.0 37.0

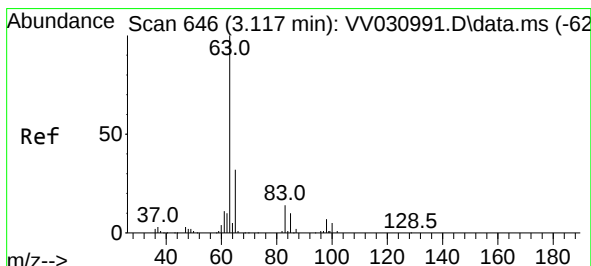
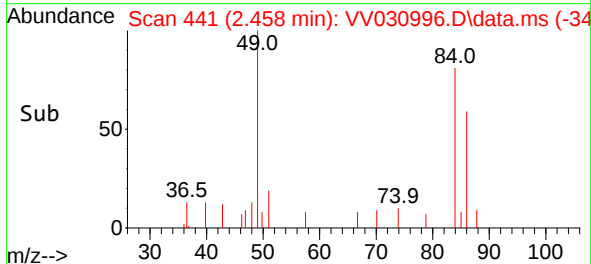
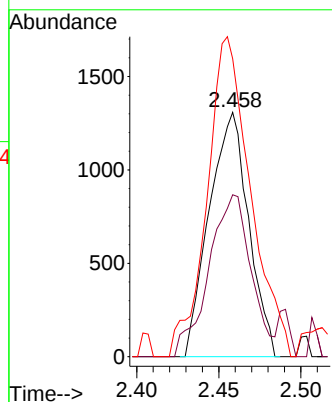
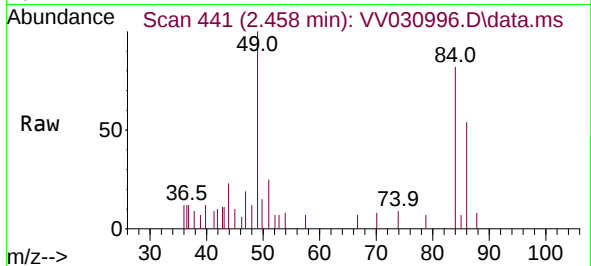




#16
Methylene chloride
Concen: 0.245 ug/L
RT: 2.458 min Scan# 441
Delta R.T. 0.007 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

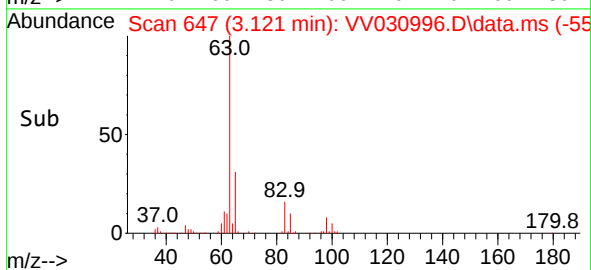
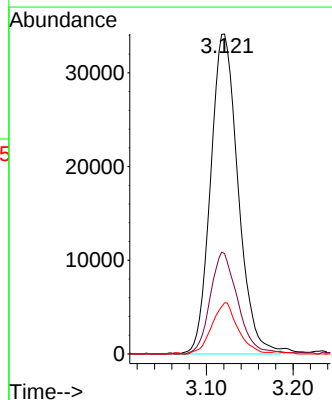
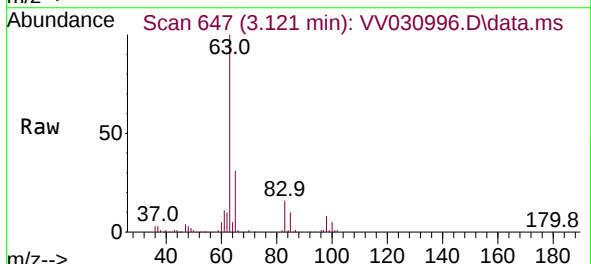
Instrument :
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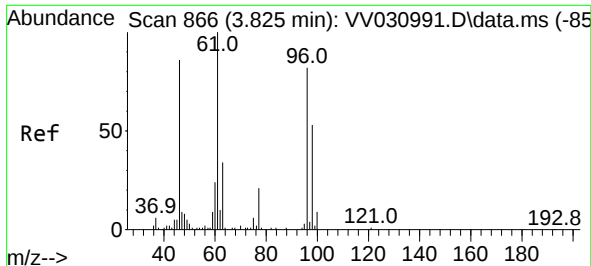
Tgt Ion:	84	Resp:	2181
Ion	Ratio	Lower	Upper
84	100		
86	66.3	46.1	85.5
49	139.7	94.3	175.1



#19
1,1-Dichloroethane
Concen: 5.429 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

Tgt Ion:	63	Resp:	75312
Ion	Ratio	Lower	Upper
63	100		
65	31.4	21.8	40.6
83	16.0	10.2	19.0





#22

cis-1,2-Dichloroethene

Concen: 0.535 ug/L

RT: 3.841 min Scan# 81

Delta R.T. 0.016 min

Lab File: VV030996.D

Acq: 05 May 2023 15:58

Instrument :

MSVOA_V

ClientSampleId :

C0AA3

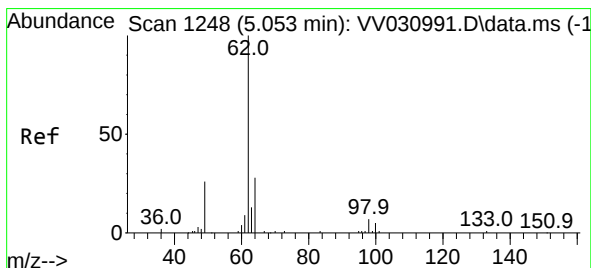
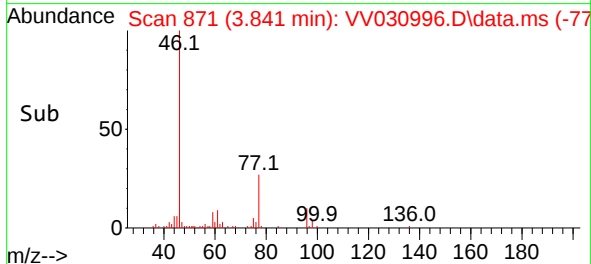
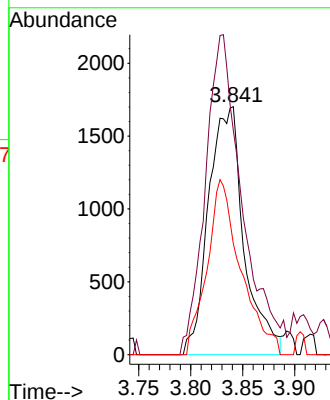
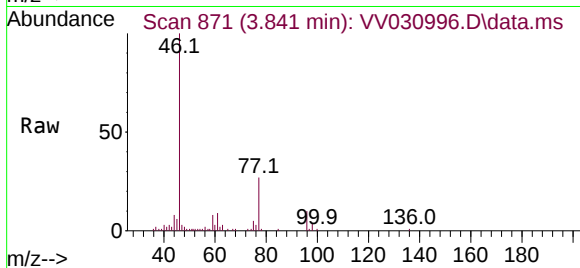
Tgt Ion: 96 Resp: 4052

Ion Ratio Lower Upper

96 100

61 90.4 86.0 159.6

98 44.8 43.2 80.2



#27

1,2-Dichloroethane

Concen: 0.179 ug/L

RT: 5.069 min Scan# 1253

Delta R.T. 0.016 min

Lab File: VV030996.D

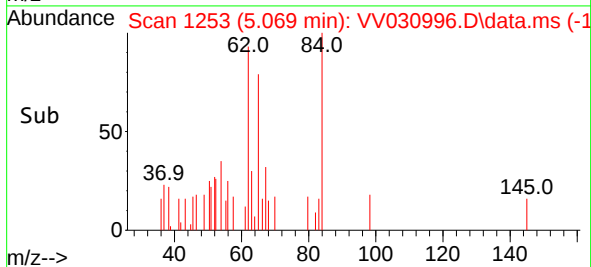
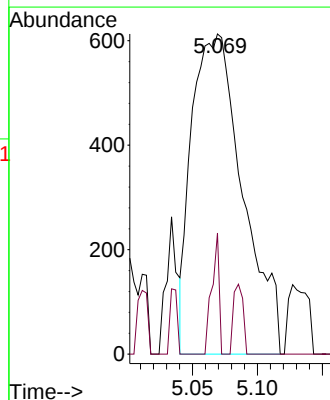
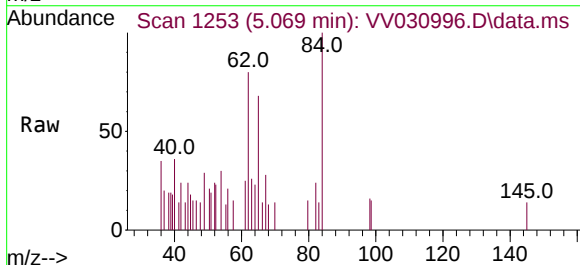
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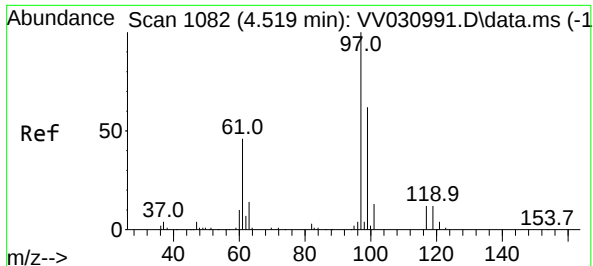
Tgt Ion: 62 Resp: 1675

Ion Ratio Lower Upper

62 100

98 37.8 6.0 9.0#





#29

1,1,1-Trichloroethane

Concen: 23.356 ug/L

RT: 4.523 min Scan# 1082

Delta R.T. 0.003 min

Lab File: VV030996.D

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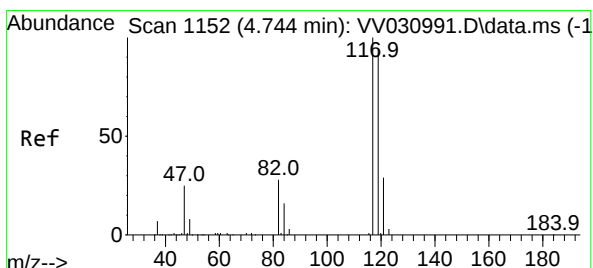
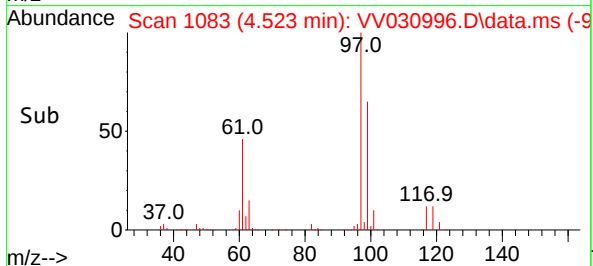
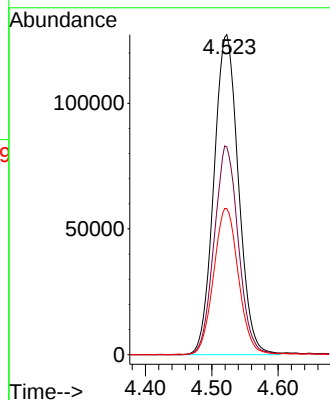
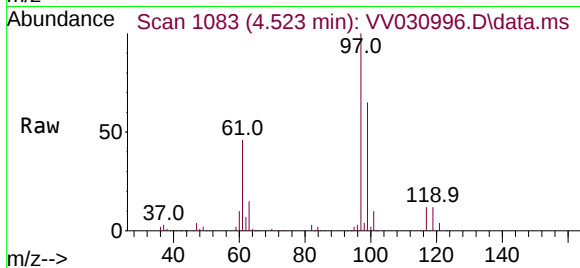
Tgt Ion: 97 Resp: 327749

Ion Ratio Lower Upper

97 100

99 64.2 51.4 77.2

61 45.8 37.4 56.0



#31

Carbon tetrachloride

Concen: 3.215 ug/L

RT: 4.526 min Scan# 1084

Delta R.T. -0.218 min

Lab File: VV030996.D

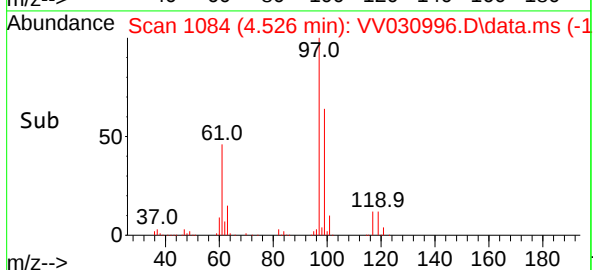
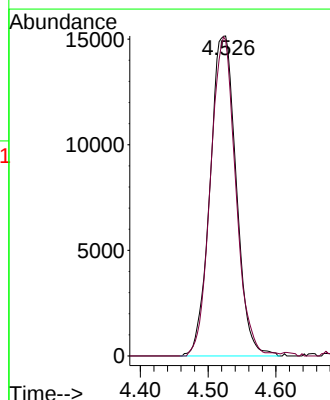
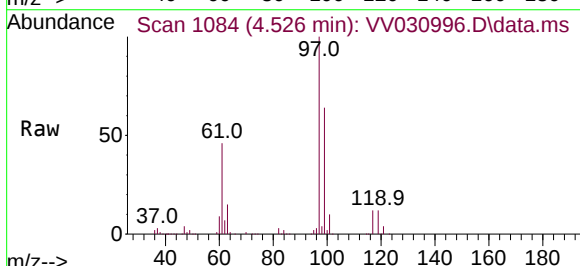
Acq: 05 May 2023 15:58

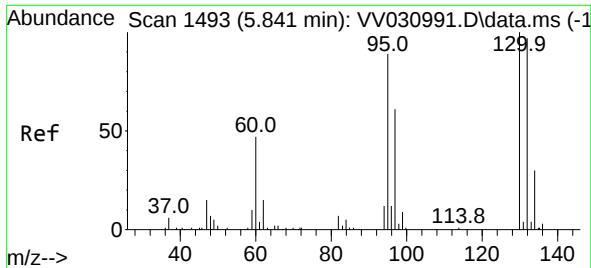
Tgt Ion: 117 Resp: 40529

Ion Ratio Lower Upper

117 100

119 96.3 78.4 117.6



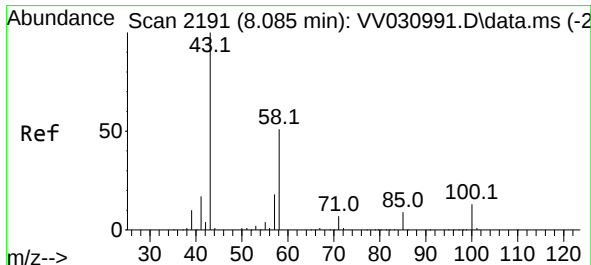
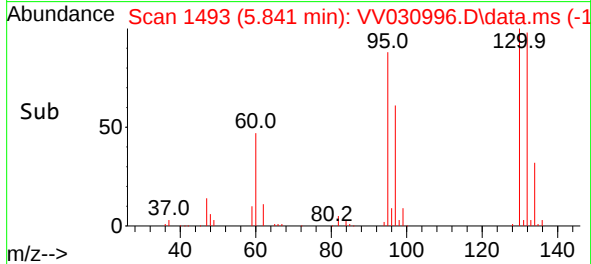
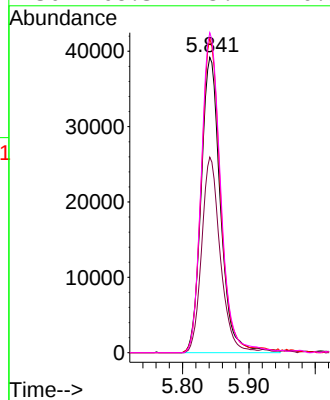
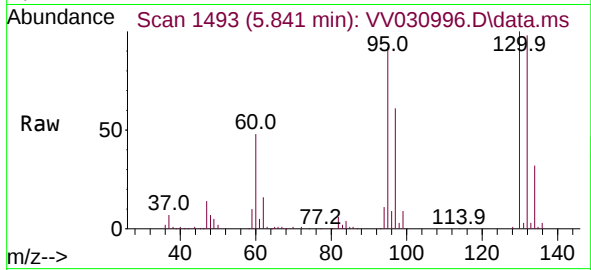


#34
Trichloroethene
Concen: 10.555 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

Instrument :
MSVOA_V
ClientSampleId :
C0AA3

Tgt Ion: 95 Resp: 79037

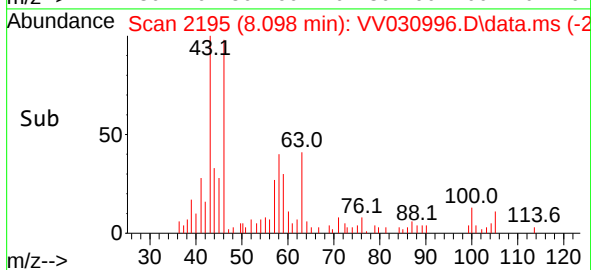
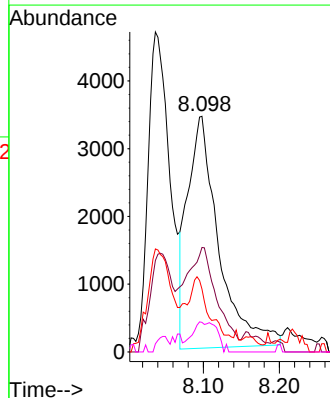
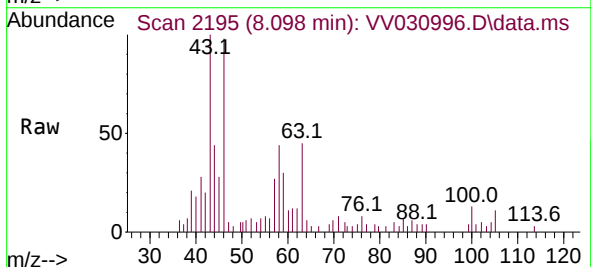
Ion	Ratio	Lower	Upper
95	100		
97	66.2	46.2	85.8
132	106.3	72.7	135.1
130	108.3	75.7	140.5

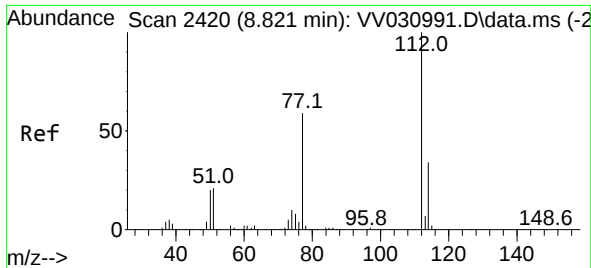


#48
2-Hexanone
Concen: 3.691 ug/L
RT: 8.098 min Scan# 2195
Delta R.T. 0.013 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

Tgt Ion: 43 Resp: 9773

Ion	Ratio	Lower	Upper
43	100		
58	45.5	39.9	59.9
57	19.0	14.1	21.1
100	2.8	9.7	14.5

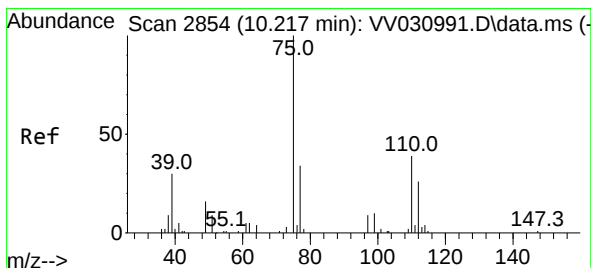
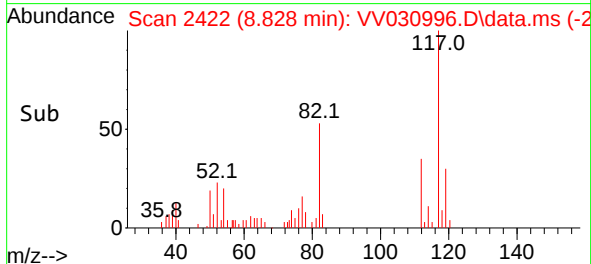
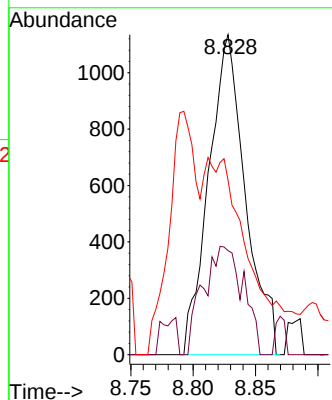
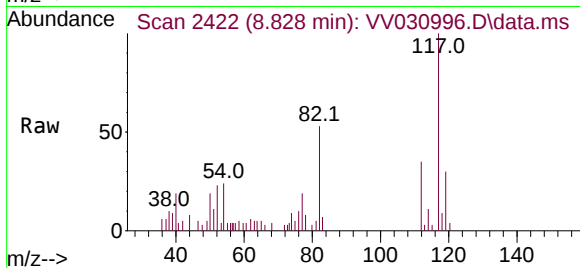




#51
Chlorobenzene
Concen: 0.113 ug/L
RT: 8.828 min Scan# 2420
Delta R.T. 0.007 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

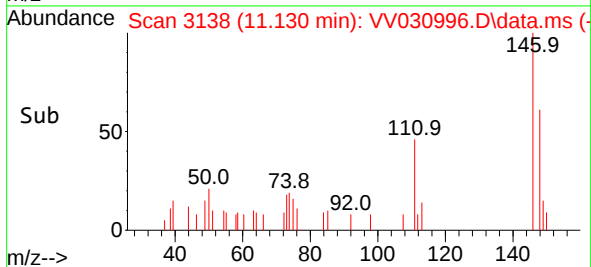
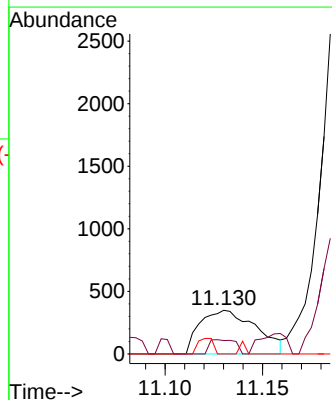
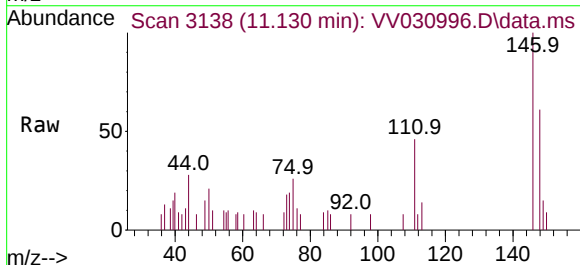
Instrument :
MSVOA_V
ClientSampleId :
C0AA3

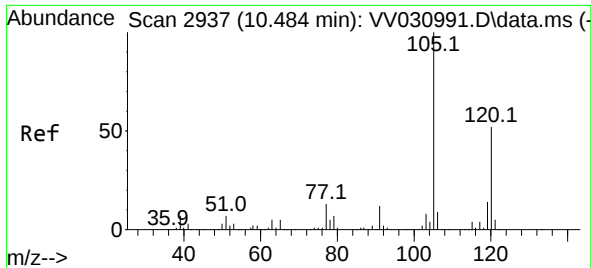
Tgt Ion:	112	Resp:	2323
Ion	Ratio	Lower	Upper
112	100		
114	32.5	22.5	41.9
77	54.5	45.3	67.9



#61
1,2,3-Trichloropropane
Concen: 0.217 ug/L
RT: 11.130 min Scan# 3138
Delta R.T. 0.913 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

Tgt Ion:	75	Resp:	698
Ion	Ratio	Lower	Upper
75	100		
77	14.9	25.3	37.9#
110	9.7	34.0	51.0#

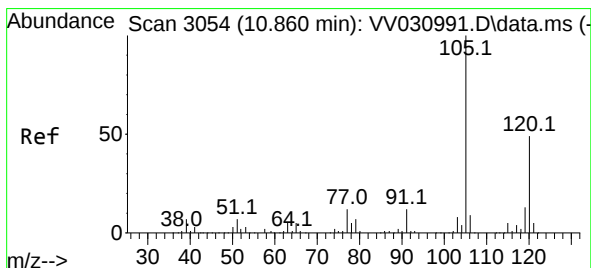
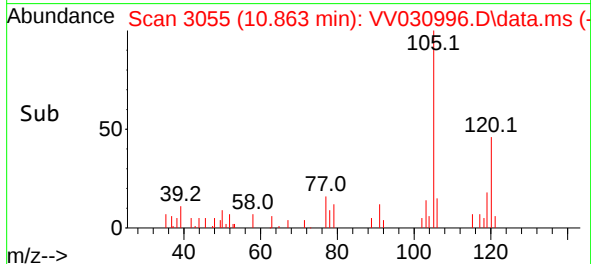
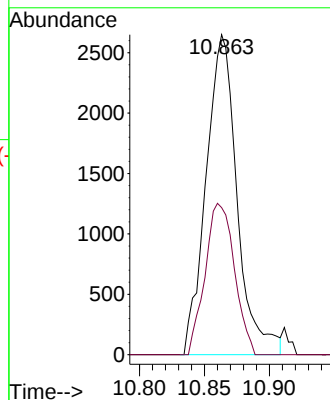
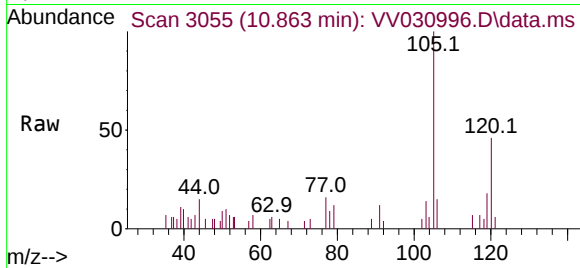




#62
 1,3,5-Trimethylbenzene
 Concen: 0.196 ug/L
 RT: 10.863 min Scan# 3055
 Delta R.T. 0.380 min
 Lab File: VV030996.D
 Acq: 05 May 2023 15:58

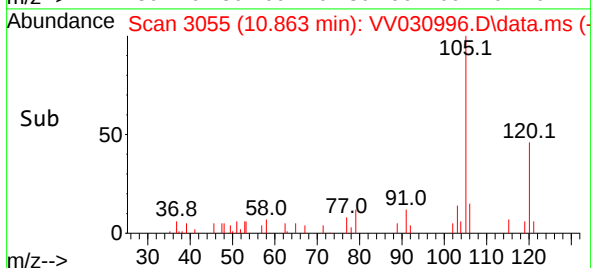
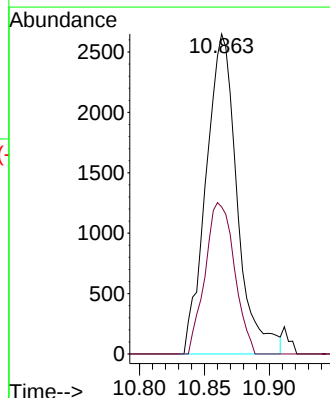
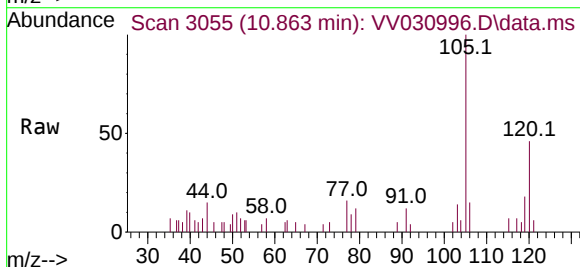
Instrument :
 MSVOA_V
 ClientSampleId :
 C0AA3

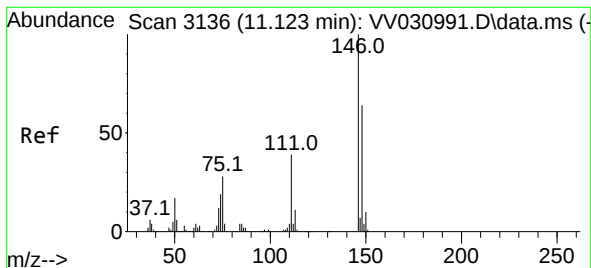
Tgt Ion:105 Resp: 4404
 Ion Ratio Lower Upper
 105 100
 120 44.6 40.2 60.4



#63
 1,2,4-Trimethylbenzene
 Concen: 0.193 ug/L
 RT: 10.863 min Scan# 3055
 Delta R.T. 0.003 min
 Lab File: VV030996.D
 Acq: 05 May 2023 15:58

Tgt Ion:105 Resp: 4404
 Ion Ratio Lower Upper
 105 100
 120 44.6 37.9 56.9





#64

1,3-Dichlorobenzene

Concen: 0.163 ug/L

RT: 11.127 min Scan# 3136

Delta R.T. 0.003 min

Lab File: VV030996.D

Acq: 05 May 2023 15:58

Instrument :

MSVOA_V

ClientSampleId :

C0AA3

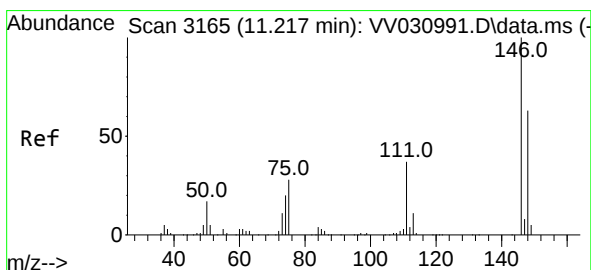
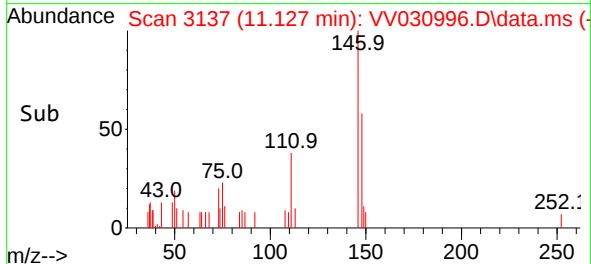
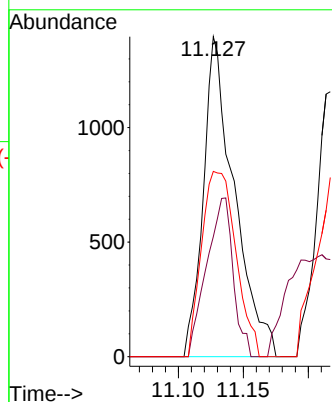
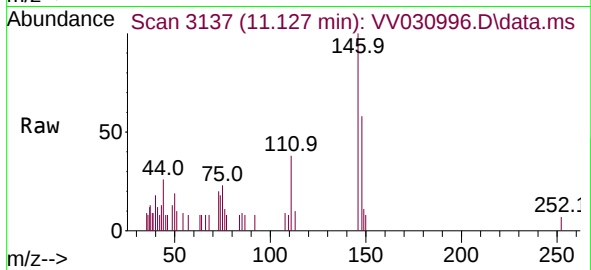
Tgt Ion:146 Resp: 2313

Ion Ratio Lower Upper

146 100

111 37.5 26.5 49.3

148 57.9 43.4 80.6



#65

1,4-Dichlorobenzene

Concen: 0.134 ug/L

RT: 11.217 min Scan# 3165

Delta R.T. 0.000 min

Lab File: VV030996.D

Acq: 05 May 2023 15:58

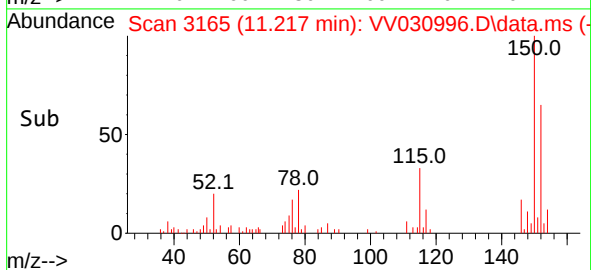
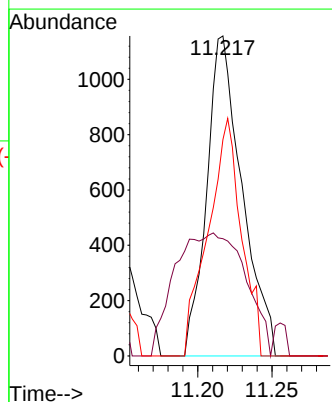
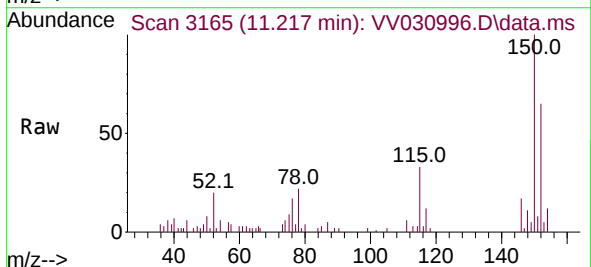
Tgt Ion:146 Resp: 1915

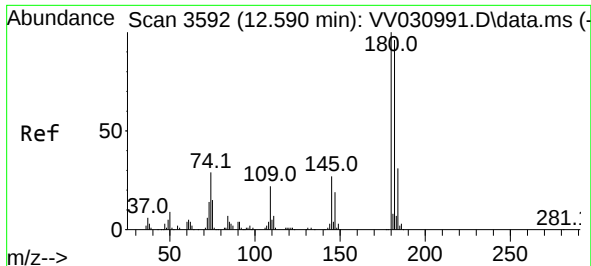
Ion Ratio Lower Upper

146 100

111 36.6 23.9 44.5

148 67.6 42.8 79.6

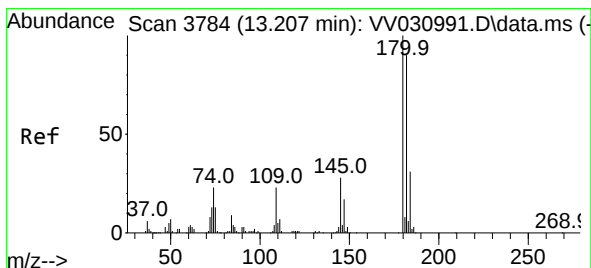
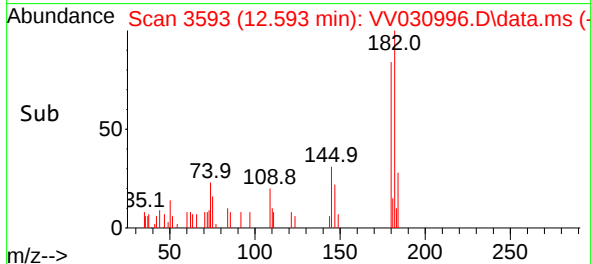
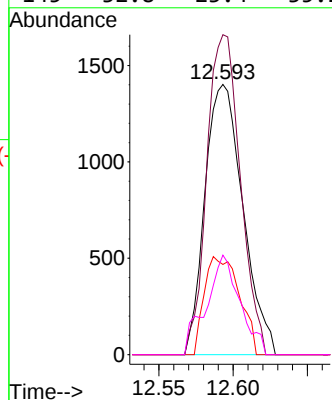
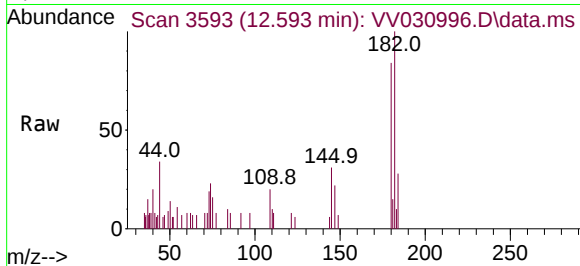




#69
1,3,5-Trichlorobenzene
Concen: 0.222 ug/L
RT: 12.593 min Scan# 3593
Delta R.T. 0.003 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

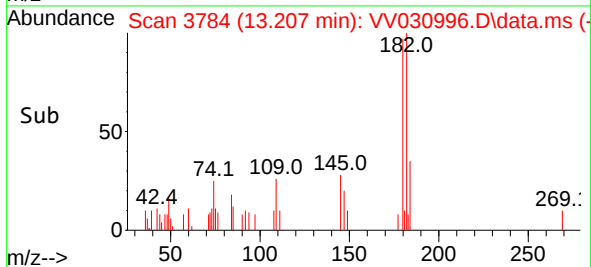
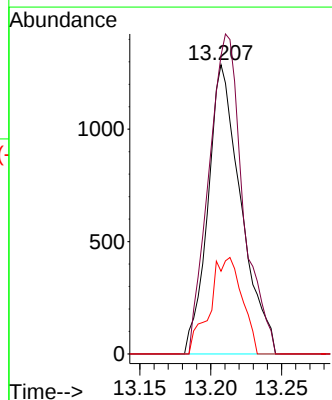
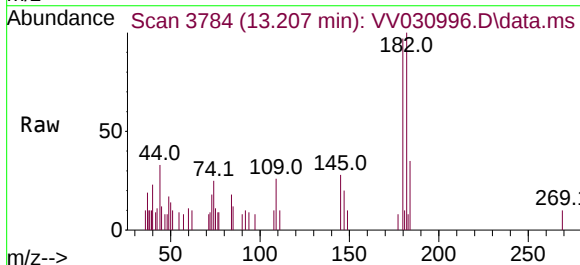
Instrument :
MSVOA_V
ClientSampleId :
C0AA3

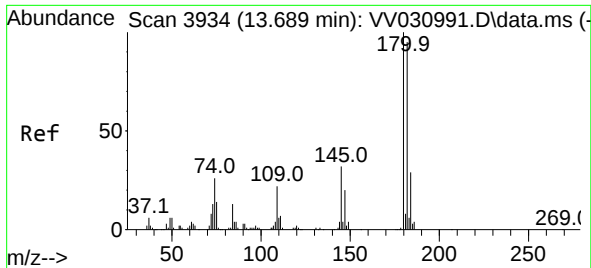
Tgt Ion:180	Resp:	2494	
Ion	Ratio	Lower	Upper
180	100		
182	104.5	75.1	112.7
184	33.4	24.1	36.1
145	32.8	23.4	35.2



#70
1,2,4-trichlorobenzene
Concen: 0.242 ug/L
RT: 13.207 min Scan# 3784
Delta R.T. 0.000 min
Lab File: VV030996.D
Acq: 05 May 2023 15:58

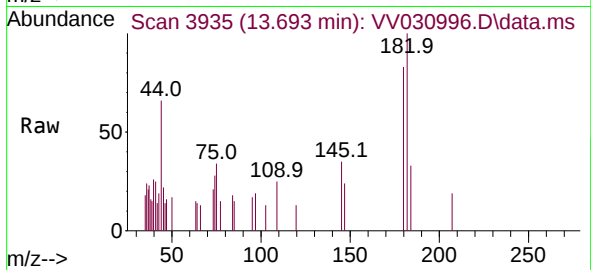
Tgt Ion:180	Resp:	2088	
Ion	Ratio	Lower	Upper
180	100		
182	114.5	76.0	114.0#
145	32.5	22.9	34.3





#72
 1,2,3-Trichlorobenzene
 Concen: 0.160 ug/L
 RT: 13.693 min Scan# 3935
 Delta R.T. 0.003 min
 Lab File: VV030996.D
 Acq: 05 May 2023 15:58

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AA3



Tgt Ion:	180	Resp:	1169
Ion	Ratio	Lower	Upper
180	100		
182	98.8	77.3	115.9
145	34.5	24.7	37.1

