

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW050823\
 Data File : VW031005.D
 Acq On : 08 May 2023 13:16
 Operator : SY/MD
 Sample : 02614-01
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 X3G07

Quant Time: May 09 01:34:13 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	133497	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	133923	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	70494	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	49256	4.478	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.600%
7) Chloroethane-d5	1.539	69	45967	5.123	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.400%
11) 1,1-Dichloroethene-d2	2.066	65	26284	4.516	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.400%
20) 2-Butanone-d5	3.818	46	89194	45.731	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	91.460%
24) Chloroform-d	4.259	84	109822	5.024	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.400%
26) 1,2-Dichloroethane-d4	4.953	65	53061	4.775	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.400%
32) Benzene-d6	4.973	84	183682	4.679	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.600%
36) 1,2-Dichloropropane-d6	5.998	67	51834	4.541	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.800%
41) Toluene-d8	7.249	98	181540	4.856	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.200%
43) trans-1,3-Dichloroprop...	7.561	79	19369	4.527	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.600%
46) 2-Hexanone-d5	8.034	63	64258	42.863	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	85.720%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	36998	4.472	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.400%
66) 1,2-Dichlorobenzene-d4	11.570	152	61506	4.681	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.108	85	40876	3.876	ug/L	99
5) Vinyl chloride	1.288	62	41490	4.005	ug/L	98
8) Chloroethane	1.555	64	89177	14.144	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.076	101	104206	10.681	ug/L	98
12) 1,1-Dichloroethene	2.076	96	20492	2.281	ug/L #	72
13) Acetone	2.143	43	172197	103.358	ug/L	81
15) Methyl Acetate	2.391	43	28832	8.506	ug/L #	86
18) trans-1,2-Dichloroethene	2.703	96	23727	2.891	ug/L	97
19) 1,1-Dichloroethane	3.121	63	34211	2.159	ug/L	93
22) cis-1,2-Dichloroethene	3.828	96	36702	4.239	ug/L	97
23) Bromochloromethane	4.159	128	22649	5.556	ug/L	92
25) Chloroform	4.288	83	146614	8.624	ug/L	97
27) 1,2-Dichloroethane	5.059	62	23830	2.233	ug/L	99
29) 1,1,1-Trichloroethane	4.526	97	36932	2.195	ug/L	97
31) Carbon tetrachloride	4.744	117	49037	3.244	ug/L	95
34) Trichloroethene	5.844	95	21502	2.394	ug/L	96
39) cis-1,3-Dichloropropene	6.963	75	55162	4.609	ug/L	99
40) 4-Methyl-2-pentanone	7.169	43	261219	63.096	ug/L	96
44) trans-1,3-Dichloropropene	7.593	75	25683	2.519	ug/L	98

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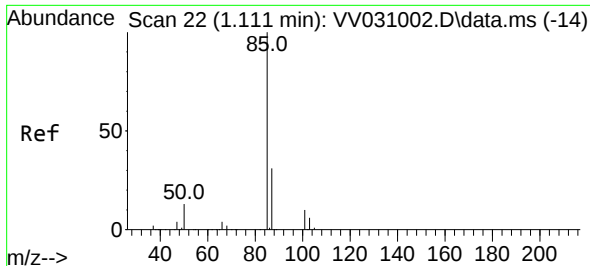
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) 1,1,2-Trichloroethane	7.780	97	12648	2.133	ug/L	95
47) Tetrachloroethene	7.911	164	27096	3.163	ug/L	96
50) 1,2-Dibromoethane	8.291	107	27582	5.216	ug/L	94
51) Chlorobenzene	8.821	112	150030	6.102	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.188	83	10052	1.517	ug/L #	89
59) Bromoform	9.673	173	14030	3.381	ug/L	98
63) 1,2,4-Trimethylbenzene	10.857	105	134537	4.291	ug/L	99
64) 1,3-Dichlorobenzene	11.127	146	59197	3.033	ug/L	98
65) 1,4-Dichlorobenzene	11.217	146	39805	2.021	ug/L	98
70) 1,2,4-trichlorobenzene	13.207	180	51785	4.360	ug/L	98
72) 1,2,3-Trichlorobenzene	13.689	180	26537	2.639	ug/L	98

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

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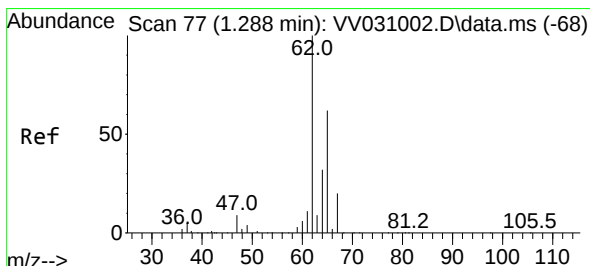
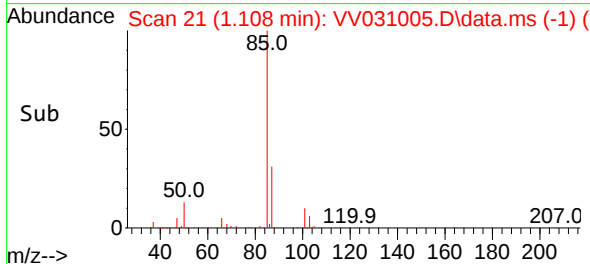
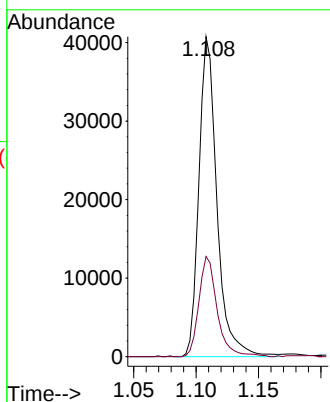
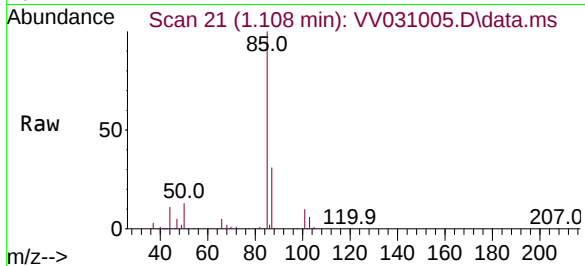




#2
 Dichlorodifluoromethane
 Concen: 3.876 ug/L
 RT: 1.108 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VV031005.D
 Acq: 08 May 2023 13:16

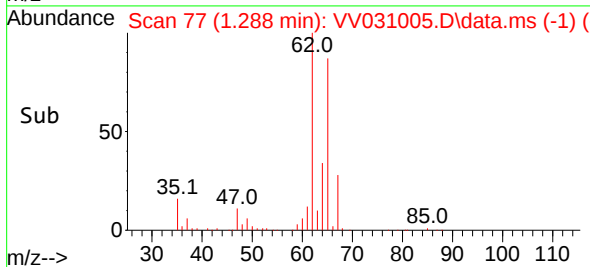
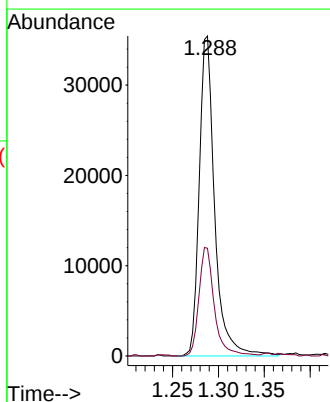
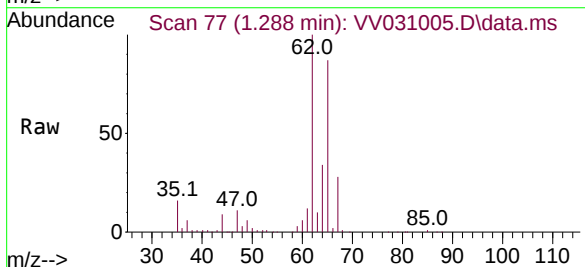
Instrument :
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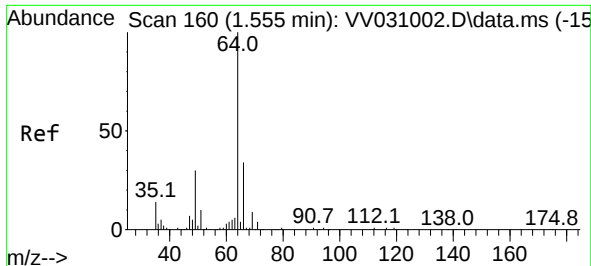
Tgt Ion: 85 Resp: 40876
 Ion Ratio Lower Upper
 85 100
 87 31.7 25.8 38.6



#5
 Vinyl chloride
 Concen: 4.005 ug/L
 RT: 1.288 min Scan# 77
 Delta R.T. 0.003 min
 Lab File: VV031005.D
 Acq: 08 May 2023 13:16

Tgt Ion: 62 Resp: 41490
 Ion Ratio Lower Upper
 62 100
 64 33.7 22.8 42.4

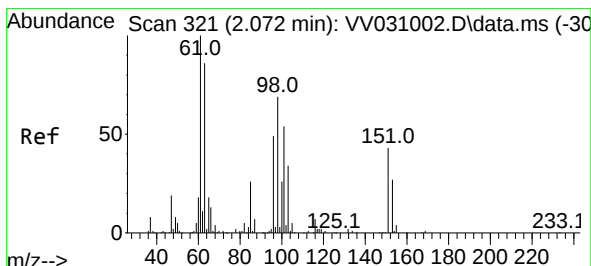
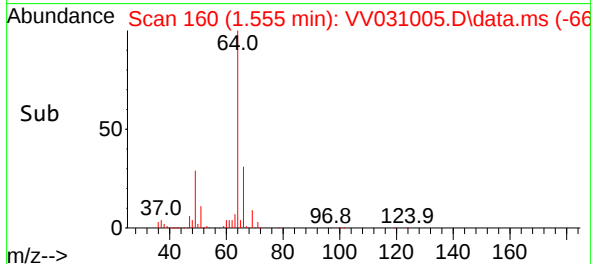
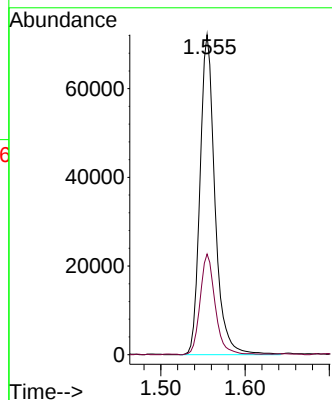
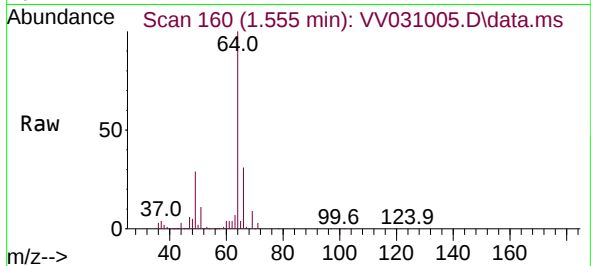




#8
Chloroethane
Concen: 14.144 ug/L
RT: 1.555 min Scan# 160
Delta R.T. 0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

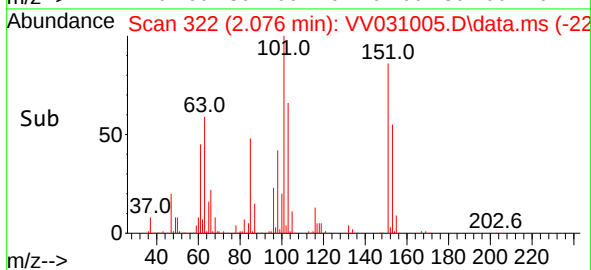
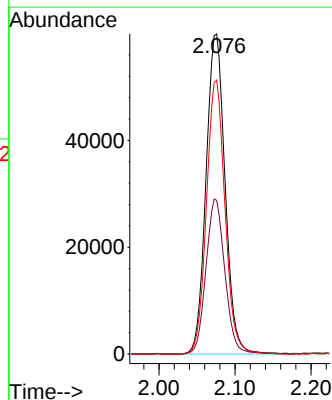
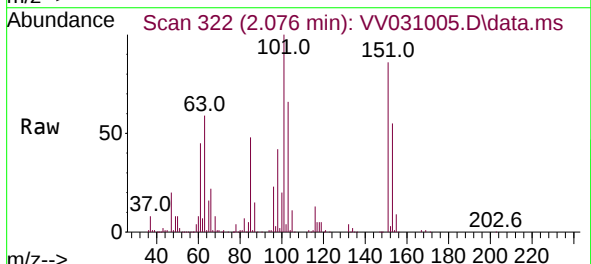
Instrument :
MSVOA_V
ClientSampleId :
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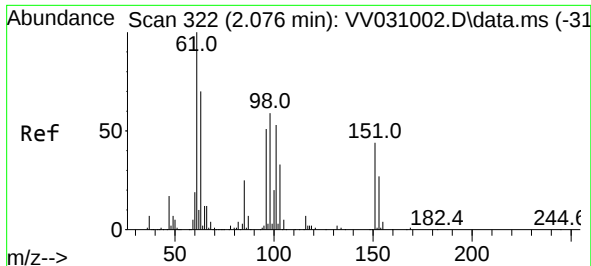
Tgt Ion: 64 Resp: 89177
Ion Ratio Lower Upper
64 100
66 31.4 22.1 41.1



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 10.681 ug/L
RT: 2.076 min Scan# 322
Delta R.T. 0.007 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

Tgt Ion:101 Resp: 104206
Ion Ratio Lower Upper
101 100
85 48.1 38.7 58.1
151 83.5 65.1 97.7

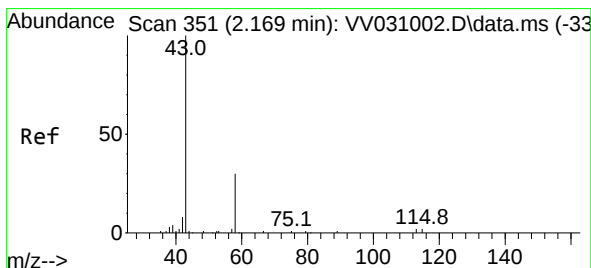
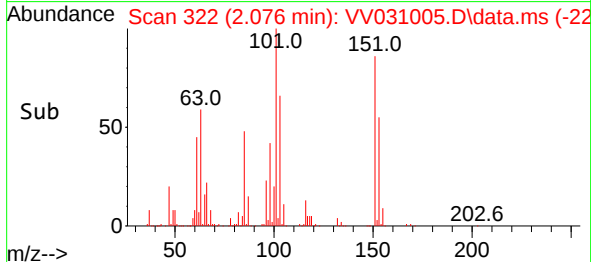
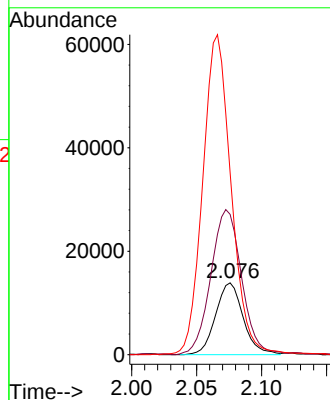
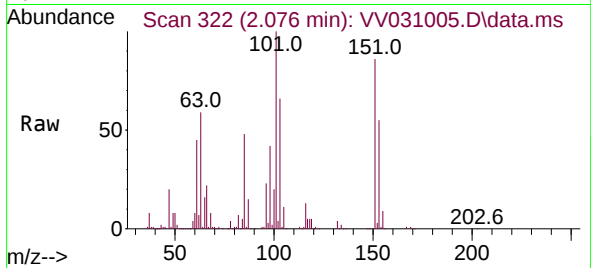




#12
1,1-Dichloroethene
Concen: 2.281 ug/L
RT: 2.076 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

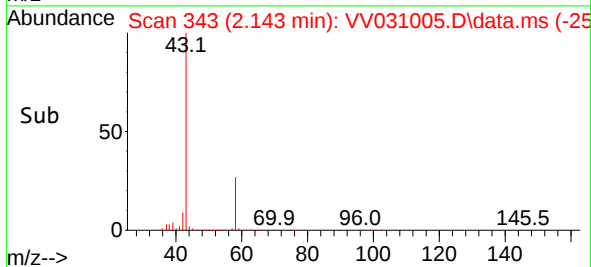
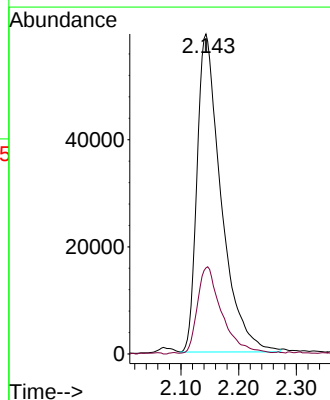
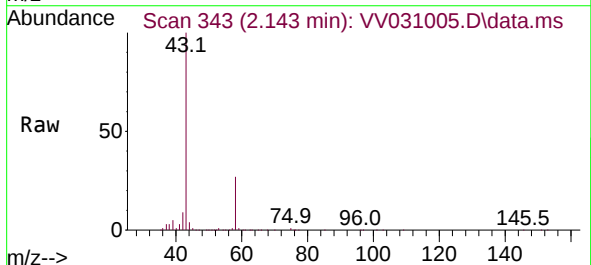
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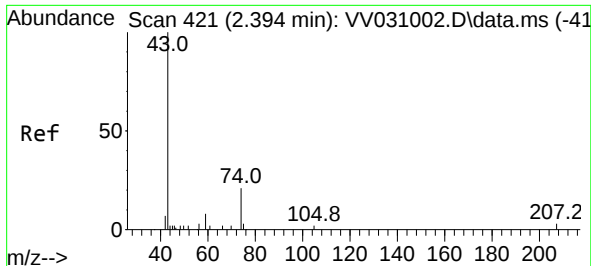
Tgt Ion: 96 Resp: 20492
Ion Ratio Lower Upper
96 100
61 195.4 135.6 251.8
63 253.4 121.1 224.9#



#13
Acetone
Concen: 103.358 ug/L
RT: 2.143 min Scan# 343
Delta R.T. -0.016 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

Tgt Ion: 43 Resp: 172197
Ion Ratio Lower Upper
43 100
58 27.1 0.0 37.0

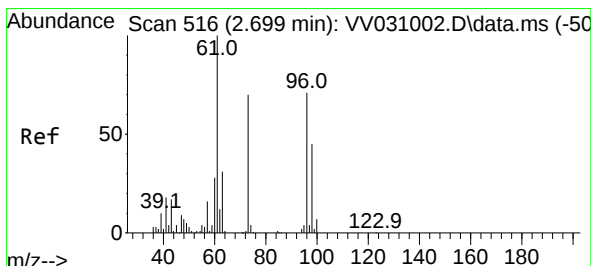
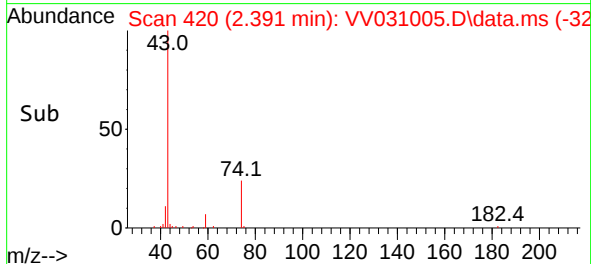
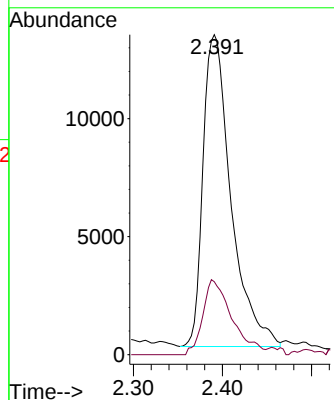
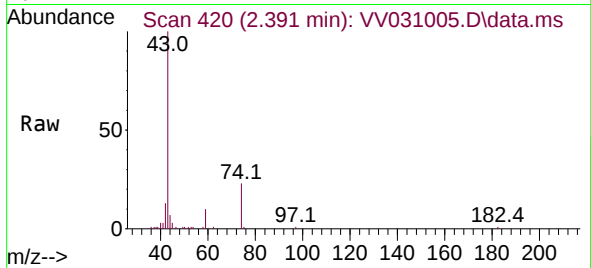




#15
Methyl Acetate
Concen: 8.506 ug/L
RT: 2.391 min Scan# 41
Delta R.T. -0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

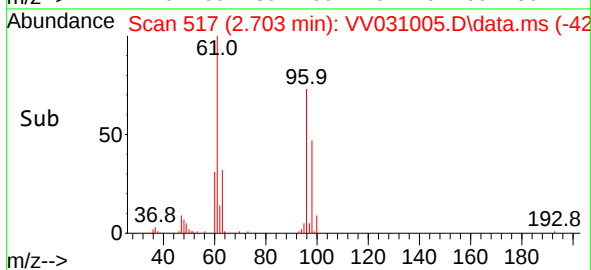
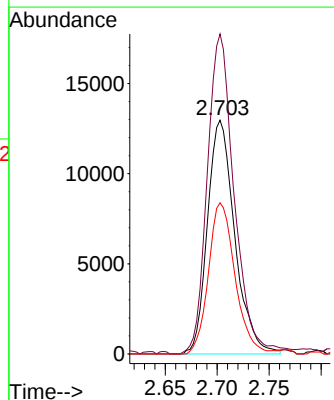
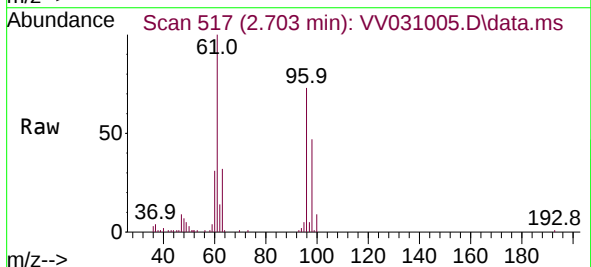
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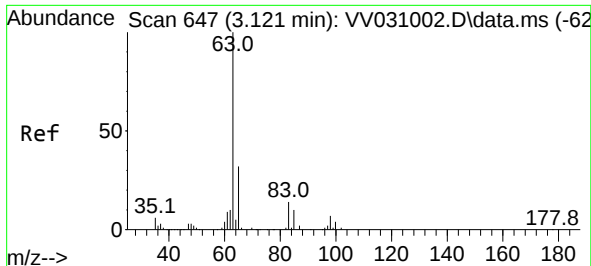
Tgt Ion: 43 Resp: 28832
Ion Ratio Lower Upper
43 100
74 25.0 15.0 22.6#



#18
trans-1,2-Dichloroethene
Concen: 2.891 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

Tgt Ion: 96 Resp: 23727
Ion Ratio Lower Upper
96 100
61 136.9 98.9 183.7
98 64.7 46.0 85.4

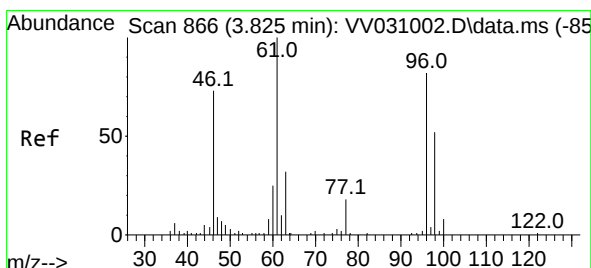
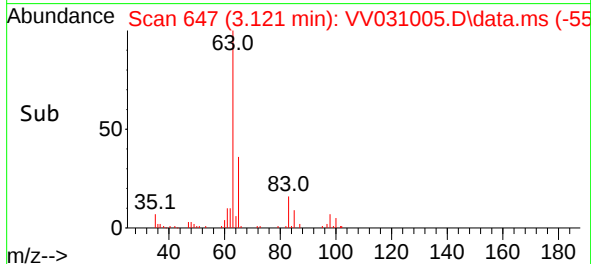
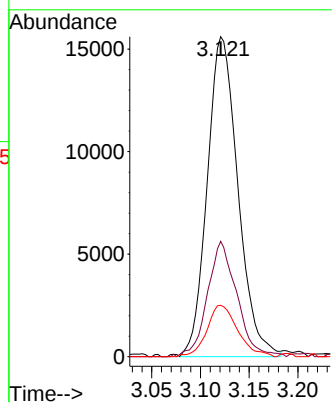
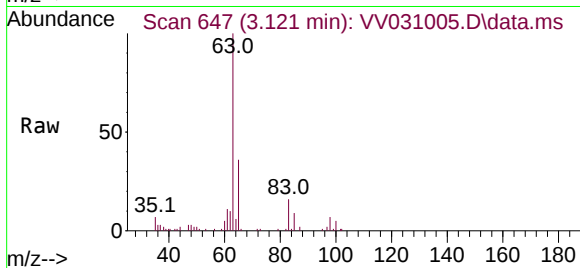




#19
1,1-Dichloroethane
Concen: 2.159 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

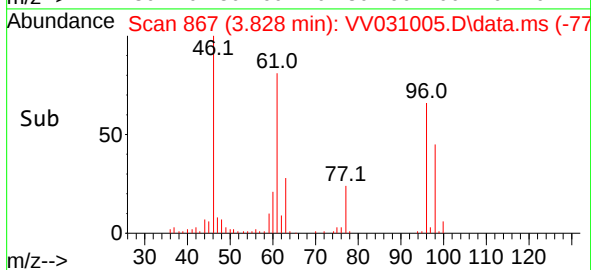
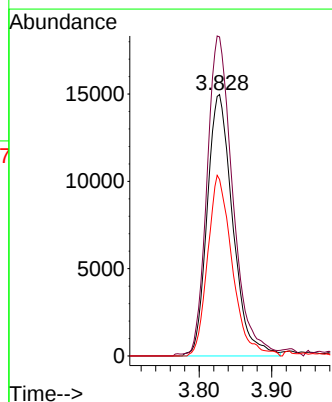
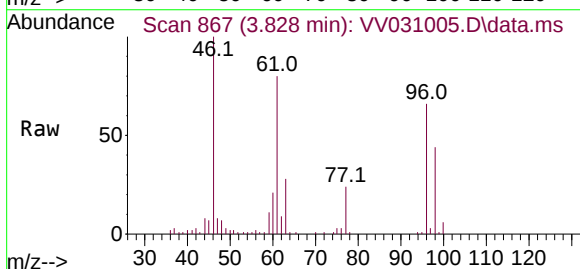
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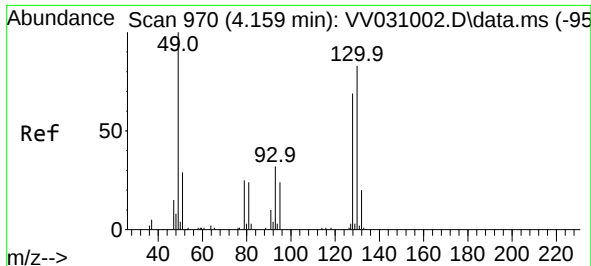
Tgt Ion: 63	Resp: 34211
Ion Ratio	Lower Upper
63 100	
65 36.1	21.8 40.6
83 16.1	10.2 19.0



#22
cis-1,2-Dichloroethene
Concen: 4.239 ug/L
RT: 3.828 min Scan# 867
Delta R.T. 0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

Tgt Ion: 96	Resp: 36702		
Ion Ratio	Lower	Upper	
96	100		
61	122.0	86.0	159.6
98	67.5	43.2	80.2

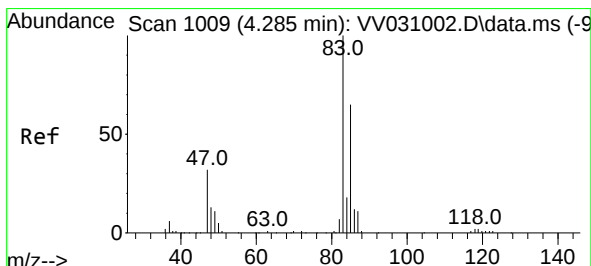
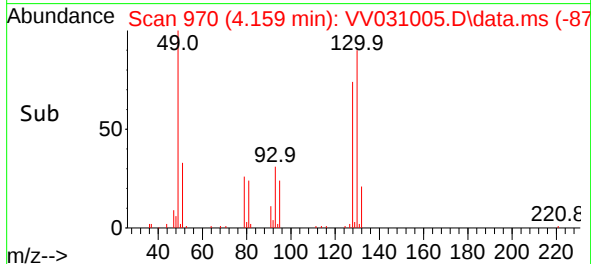
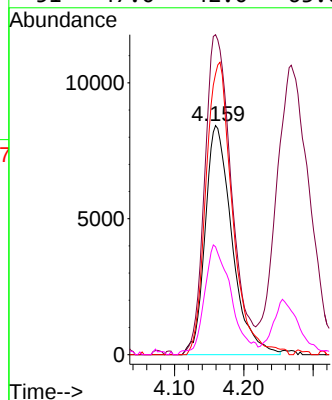
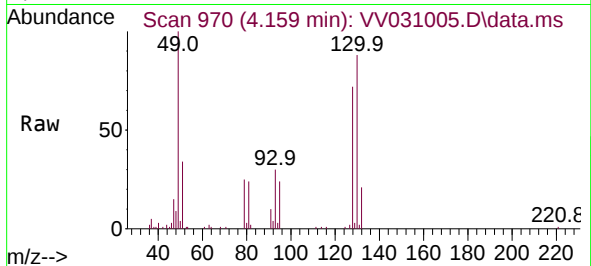




#23
Bromochloromethane
Concen: 5.556 ug/L
RT: 4.159 min Scan# 91
Delta R.T. 0.000 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

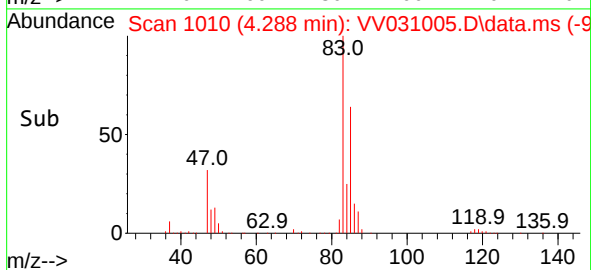
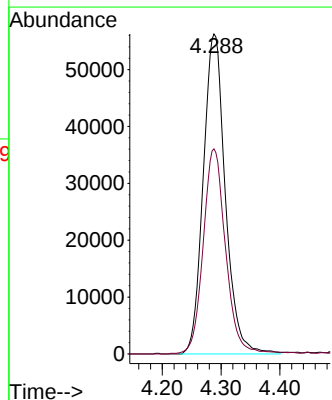
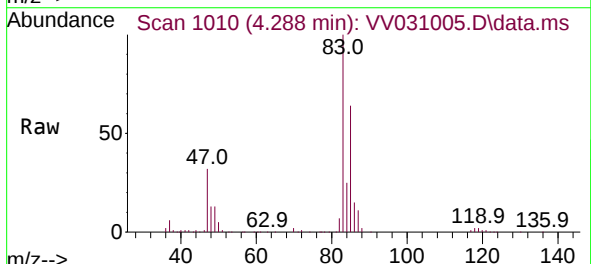
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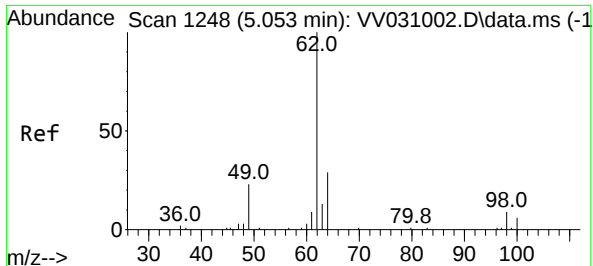
Tgt Ion:128 Resp: 22649
Ion Ratio Lower Upper
128 100
49 139.7 104.7 194.5
130 122.6 93.4 173.4
51 47.0 42.0 63.0



#25
Chloroform
Concen: 8.624 ug/L
RT: 4.288 min Scan# 1010
Delta R.T. 0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

Tgt Ion: 83 Resp: 146614
Ion Ratio Lower Upper
83 100
85 64.1 46.4 86.2





#27

1,2-Dichloroethane

Concen: 2.233 ug/L

RT: 5.059 min Scan# 1

Delta R.T. 0.007 min

Lab File: VV031005.D

Acq: 08 May 2023 13:16

Instrument :

MSVOA_V

ClientSampleId :

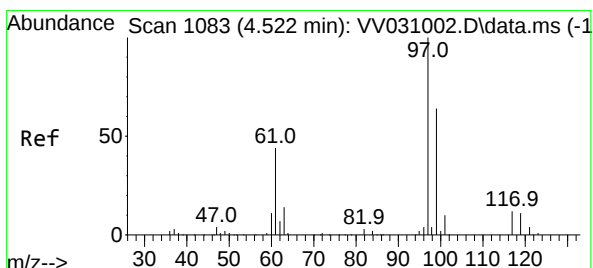
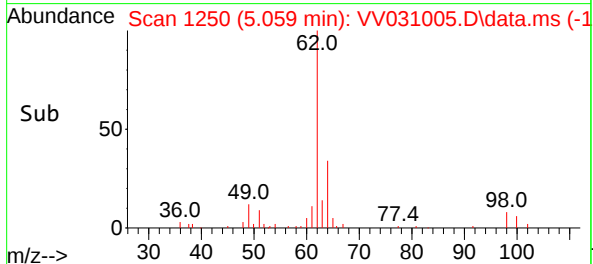
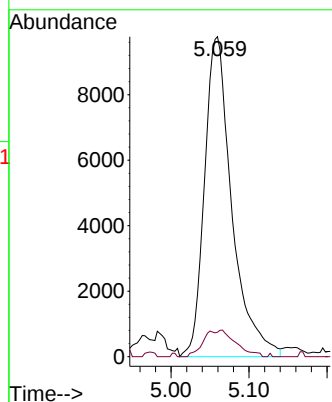
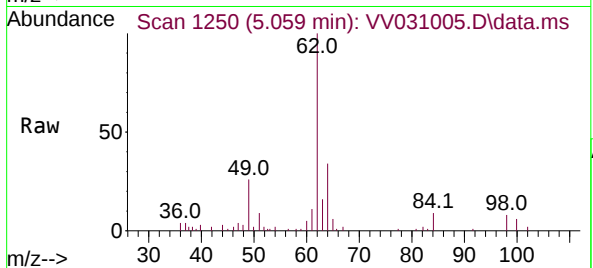
X3G07

Tgt Ion: 62 Resp: 23830

Ion Ratio Lower Upper

62 100

98 7.7 6.0 9.0



#29

1,1,1-Trichloroethane

Concen: 2.195 ug/L

RT: 4.526 min Scan# 1084

Delta R.T. 0.007 min

Lab File: VV031005.D

Acq: 08 May 2023 13:16

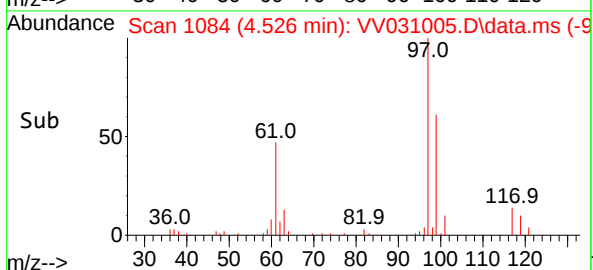
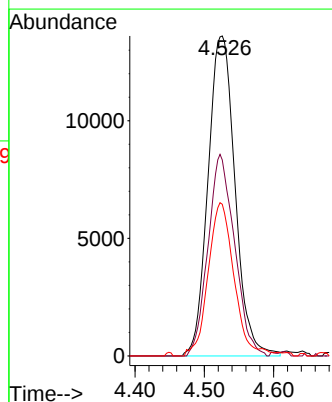
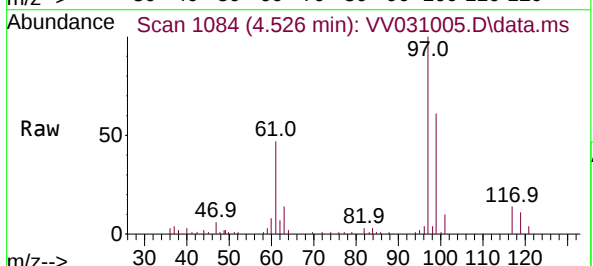
Tgt Ion: 97 Resp: 36932

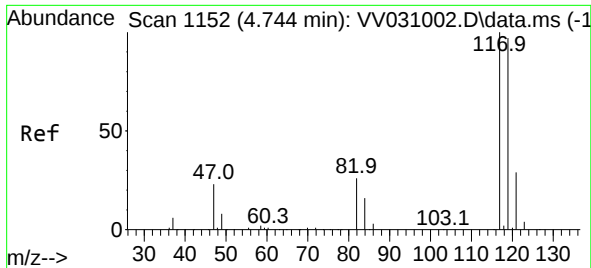
Ion Ratio Lower Upper

97 100

99 61.8 51.4 77.2

61 44.8 37.4 56.0

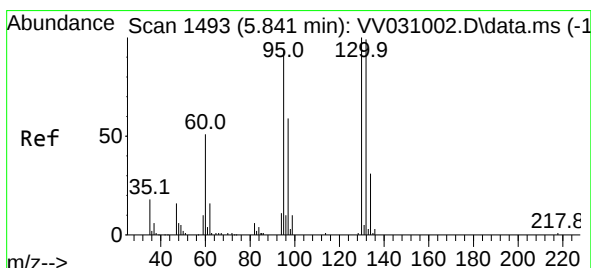
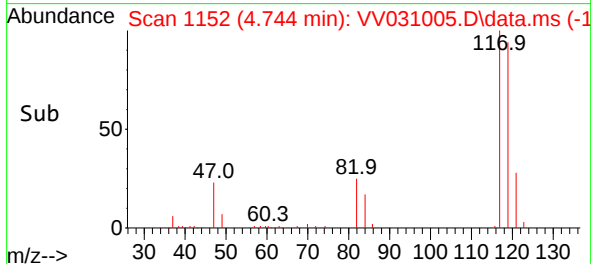
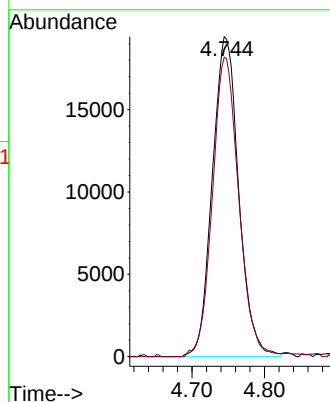
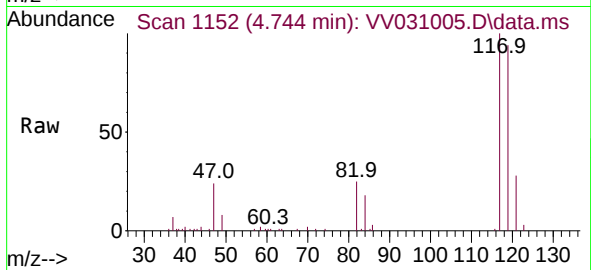




#31
Carbon tetrachloride
Concen: 3.244 ug/L
RT: 4.744 min Scan# 1152
Delta R.T. 0.000 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

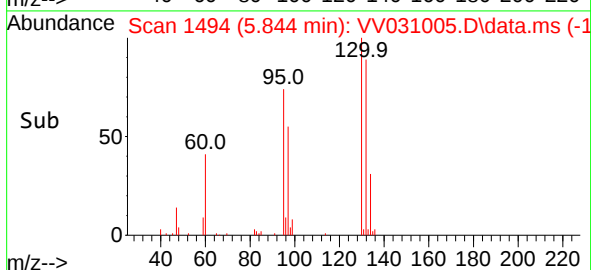
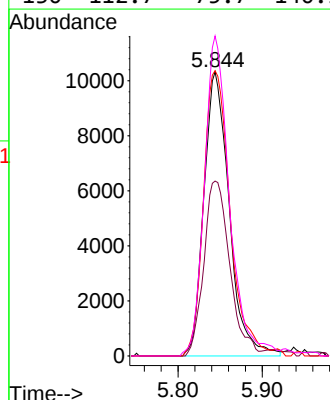
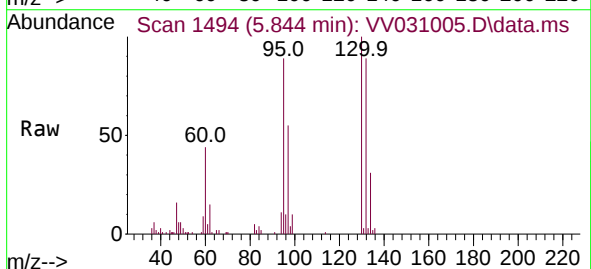
Instrument :
MSVOA_V
ClientSampleId :
X3G07

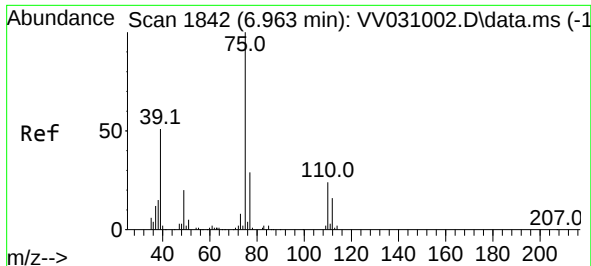
Tgt Ion:117 Resp: 49037
Ion Ratio Lower Upper
117 100
119 93.4 78.4 117.6



#34
Trichloroethene
Concen: 2.394 ug/L
RT: 5.844 min Scan# 1494
Delta R.T. 0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

Tgt Ion: 95 Resp: 21502
Ion Ratio Lower Upper
95 100
97 61.6 46.2 85.8
132 100.4 72.7 135.1
130 112.7 75.7 140.5





#39

cis-1,3-Dichloropropene

Concen: 4.609 ug/L

RT: 6.963 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV031005.D

Acq: 08 May 2023 13:16

Instrument :

MSVOA_V

ClientSampleId :

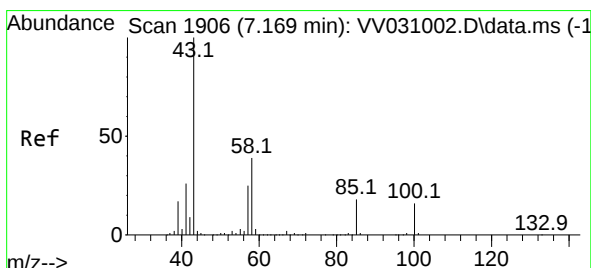
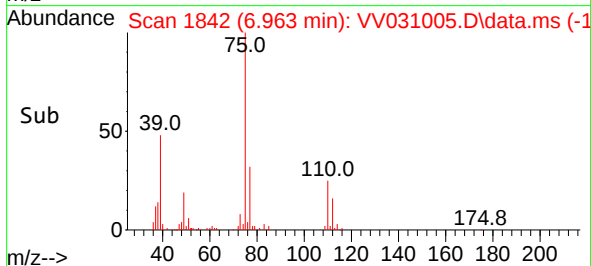
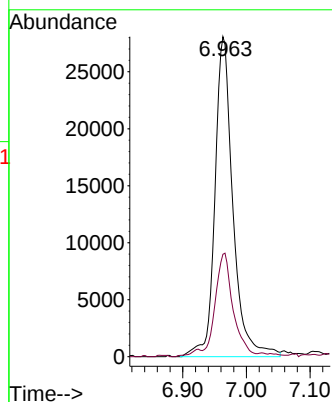
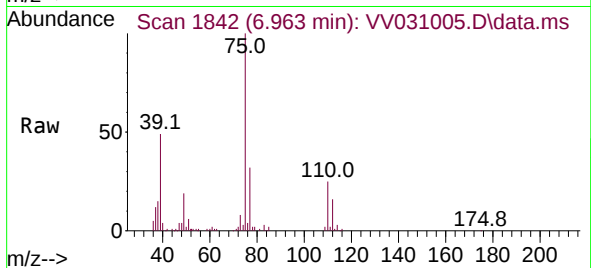
X3G07

Tgt Ion: 75 Resp: 55162

Ion Ratio Lower Upper

75 100

77 32.0 22.6 42.0



#40

4-Methyl-2-pentanone

Concen: 63.096 ug/L

RT: 7.169 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VV031005.D

Acq: 08 May 2023 13:16

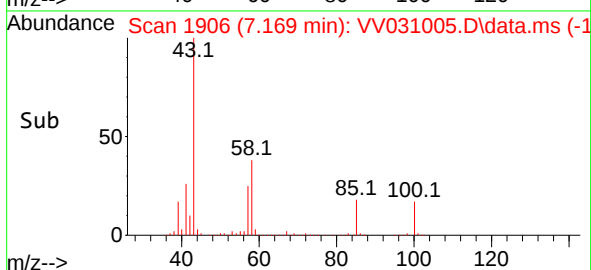
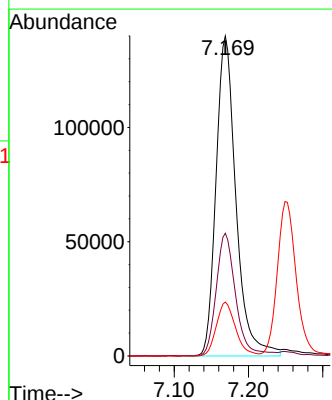
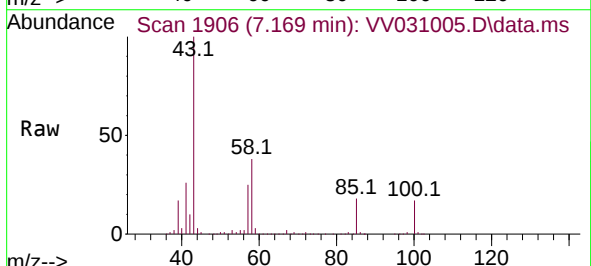
Tgt Ion: 43 Resp: 261219

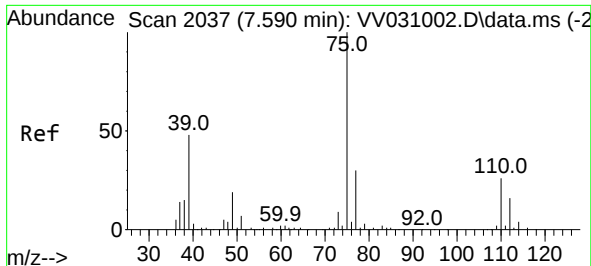
Ion Ratio Lower Upper

43 100

58 37.6 28.3 42.5

100 16.3 11.8 17.8

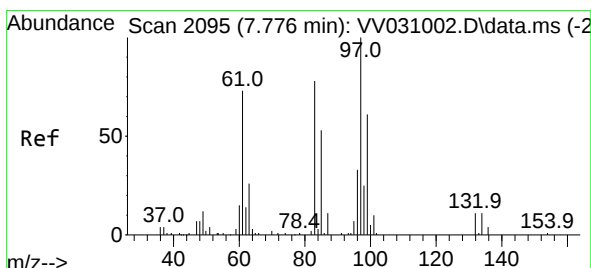
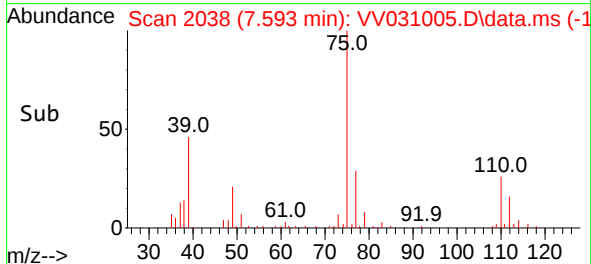
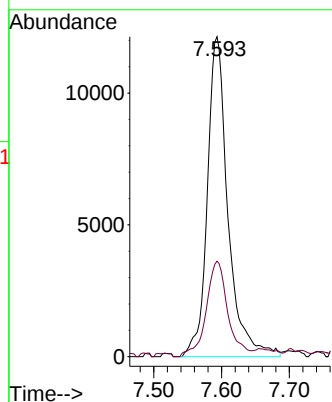
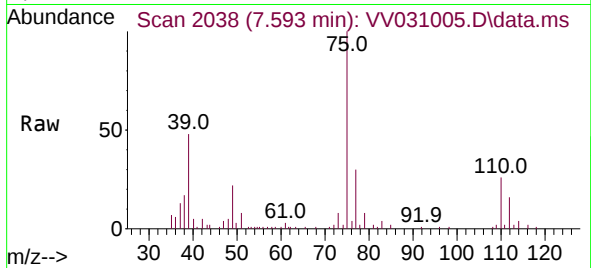




#44
trans-1,3-Dichloropropene
Concen: 2.519 ug/L
RT: 7.593 min Scan# 2037
Delta R.T. 0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

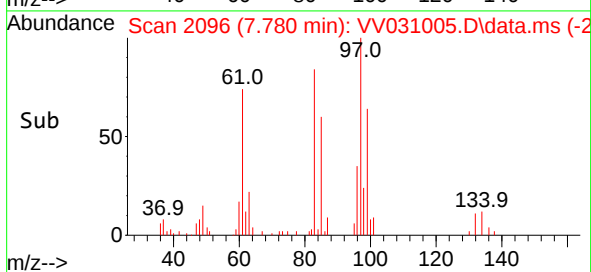
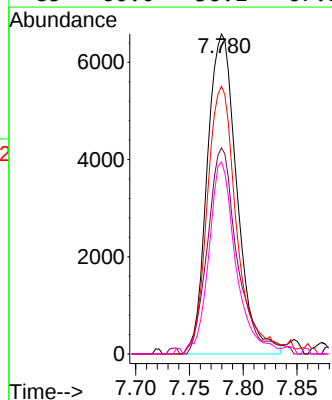
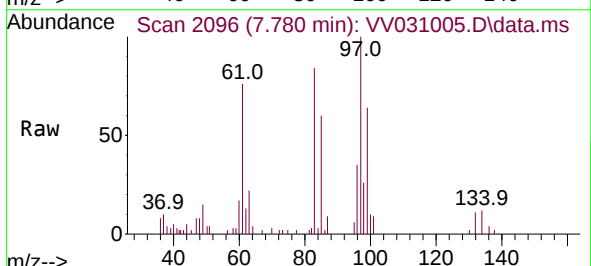
Instrument :
MSVOA_V
ClientSampleId :
X3G07

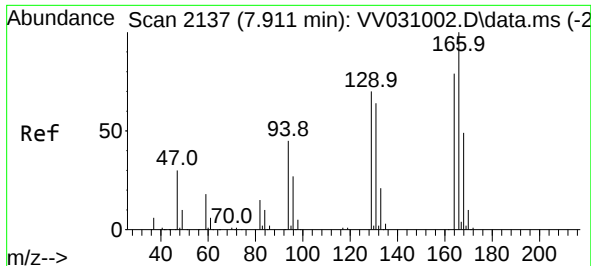
Tgt Ion: 75 Resp: 25683
Ion Ratio Lower Upper
75 100
77 29.8 21.6 40.0



#45
1,1,2-Trichloroethane
Concen: 2.133 ug/L
RT: 7.780 min Scan# 2096
Delta R.T. 0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

Tgt Ion: 97 Resp: 12648
Ion Ratio Lower Upper
97 100
99 64.4 42.8 79.6
83 83.6 57.5 106.7
85 60.0 36.1 67.1

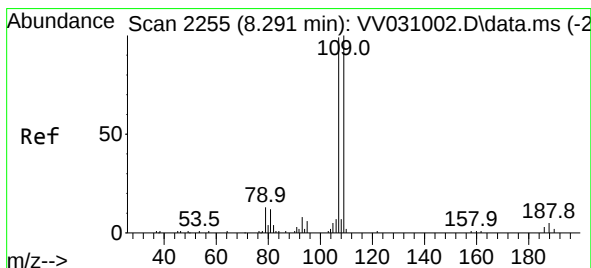
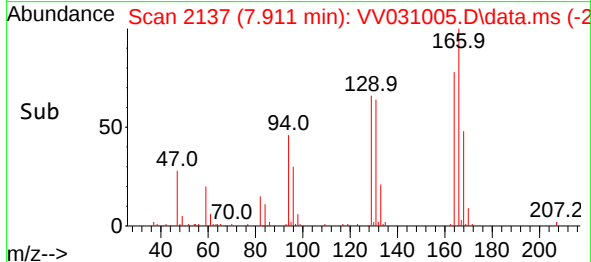
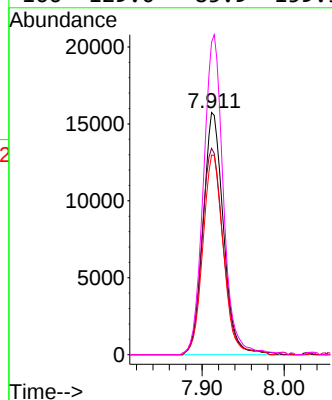
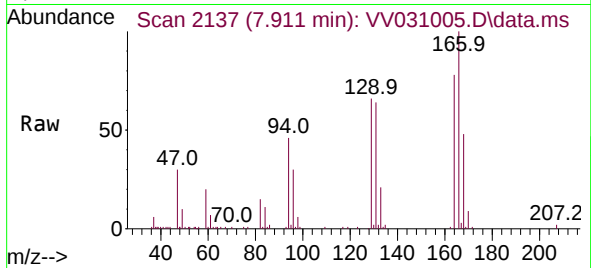




#47
Tetrachloroethene
Concen: 3.163 ug/L
RT: 7.911 min Scan# 2137
Delta R.T. 0.000 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

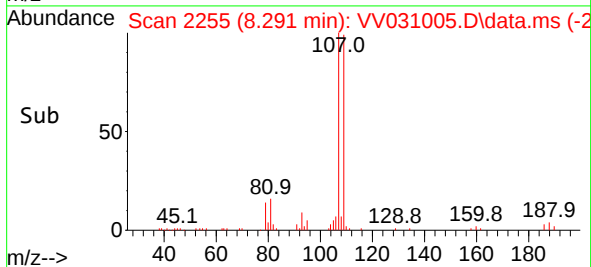
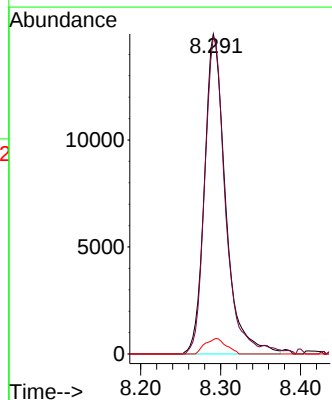
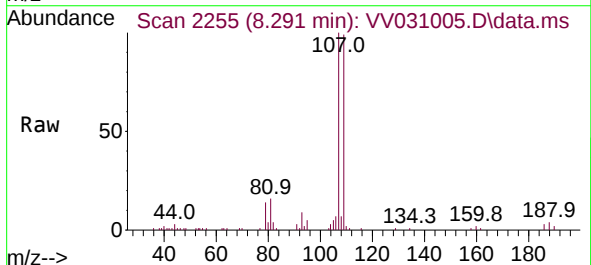
Instrument :
MSVOA_V
ClientSampleId :
X3G07

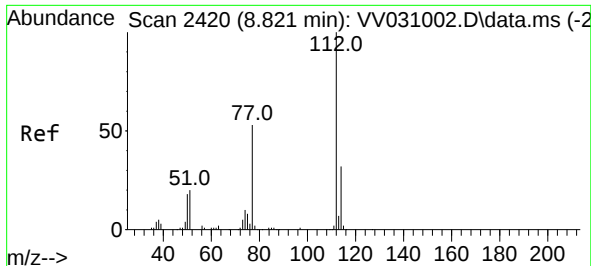
Tgt Ion:164	Resp:	27096
Ion	Ratio	Lower Upper
164	100	
129	85.2	60.5 112.3
131	82.4	60.8 112.8
166	129.0	85.9 159.5



#50
1,2-Dibromoethane
Concen: 5.216 ug/L
RT: 8.291 min Scan# 2255
Delta R.T. 0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

Tgt Ion:107	Resp:	27582
Ion	Ratio	Lower Upper
107	100	
109	99.0	64.9 120.5
188	4.5	3.2 4.8

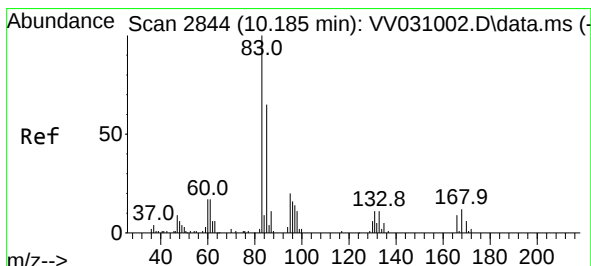
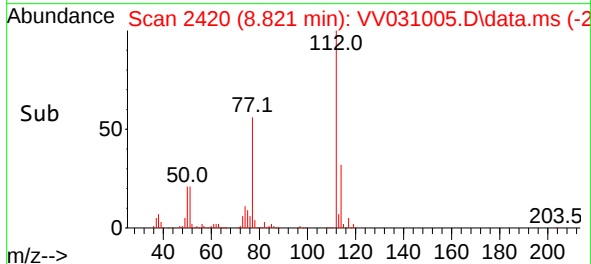
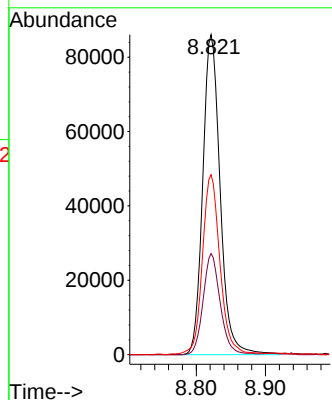
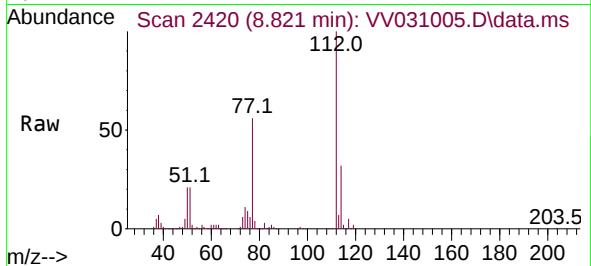




#51
Chlorobenzene
Concen: 6.102 ug/L
RT: 8.821 min Scan# 2420
Delta R.T. 0.000 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

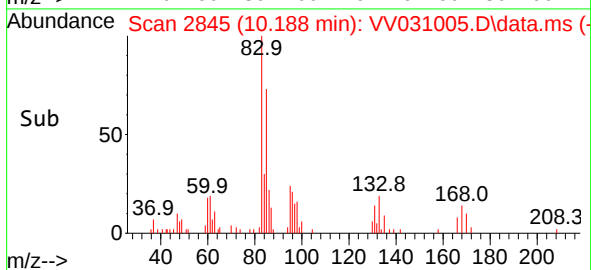
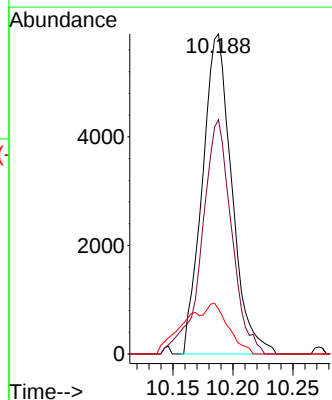
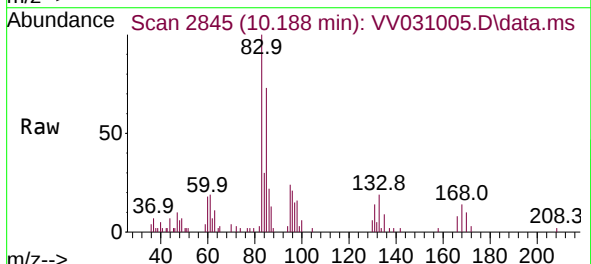
Instrument :
MSVOA_V
ClientSampleId :
X3G07

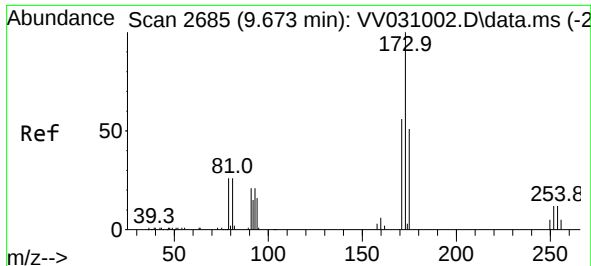
Tgt Ion:112 Resp: 150030
Ion Ratio Lower Upper
112 100
114 31.6 22.5 41.9
77 56.2 45.3 67.9



#57
1,1,2,2-Tetrachloroethane
Concen: 1.517 ug/L
RT: 10.188 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

Tgt Ion: 83 Resp: 10052
Ion Ratio Lower Upper
83 100
85 73.2 45.2 84.0
131 14.1 8.3 12.5

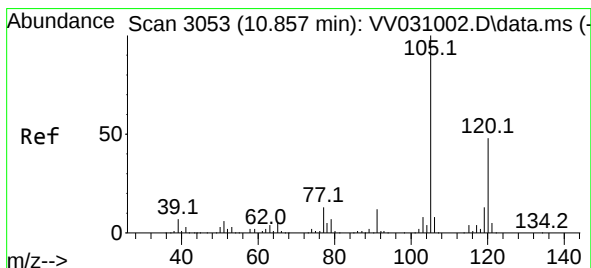
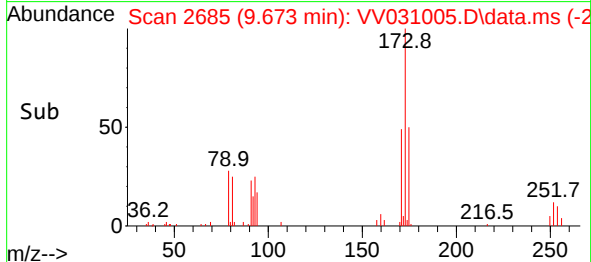
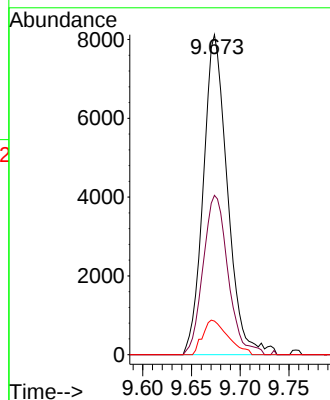
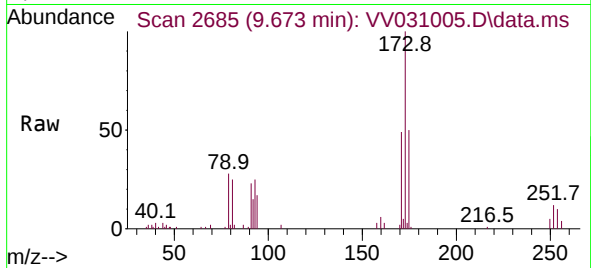




#59
Bromoform
Concen: 3.381 ug/L
RT: 9.673 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

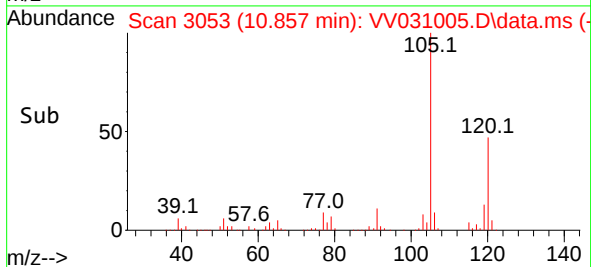
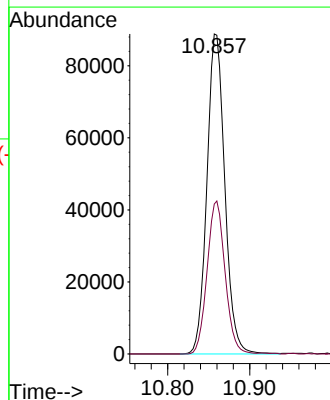
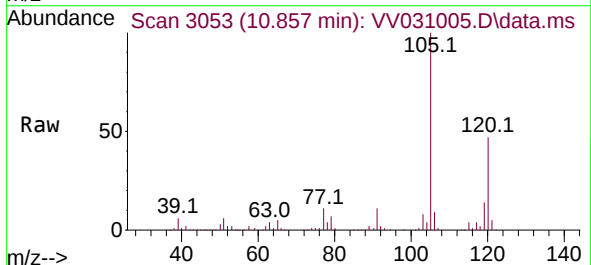
Instrument :
MSVOA_V
ClientSampleId :
X3G07

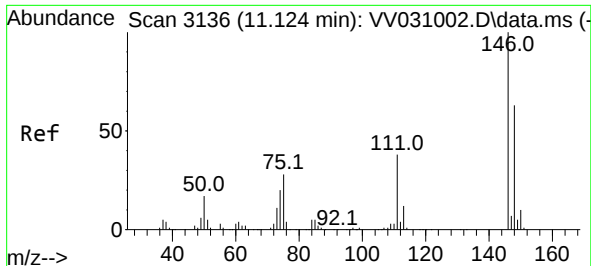
Tgt Ion:173 Resp: 14030
Ion Ratio Lower Upper
173 100
175 51.4 39.9 59.9
254 11.2 9.7 14.5



#63
1,2,4-Trimethylbenzene
Concen: 4.291 ug/L
RT: 10.857 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

Tgt Ion:105 Resp: 134537
Ion Ratio Lower Upper
105 100
120 47.9 37.9 56.9

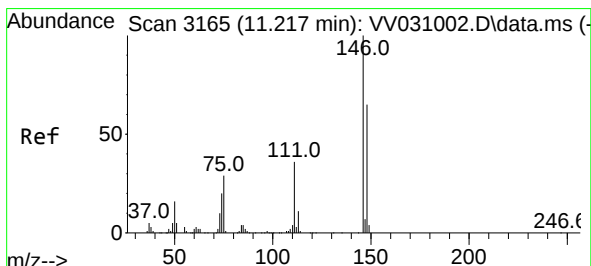
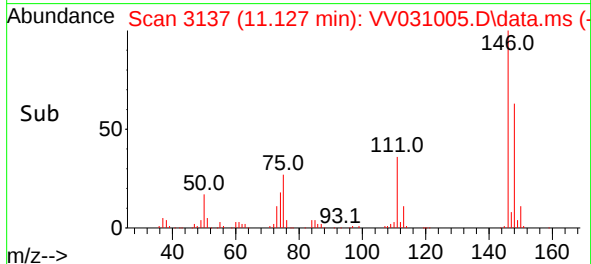
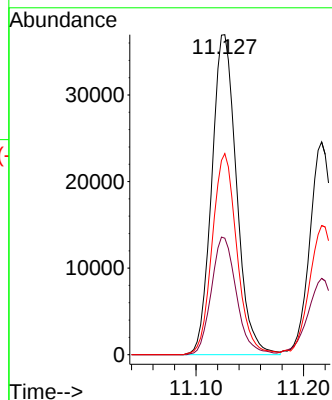
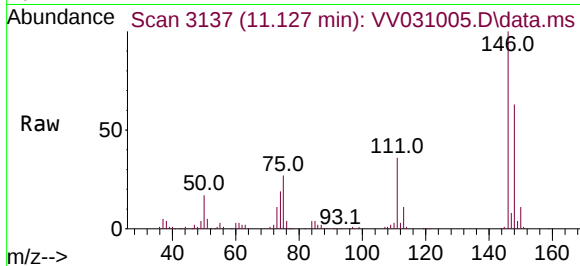




#64
1,3-Dichlorobenzene
Concen: 3.033 ug/L
RT: 11.127 min Scan# 3136
Delta R.T. 0.003 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

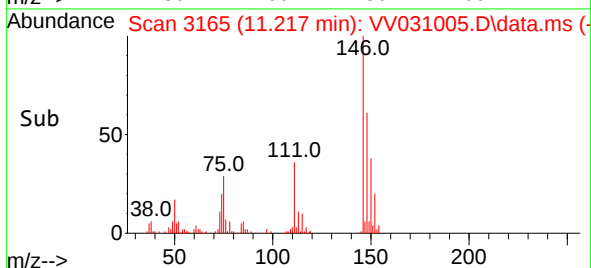
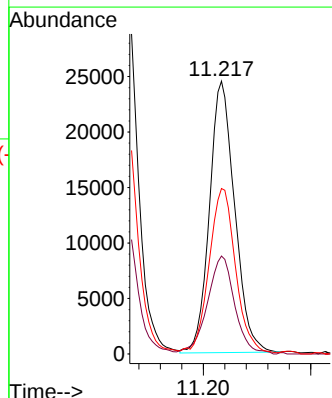
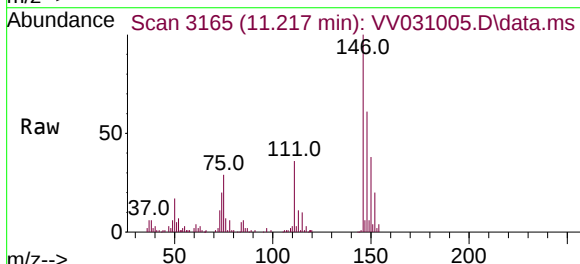
Instrument :
MSVOA_V
ClientSampleId :
X3G07

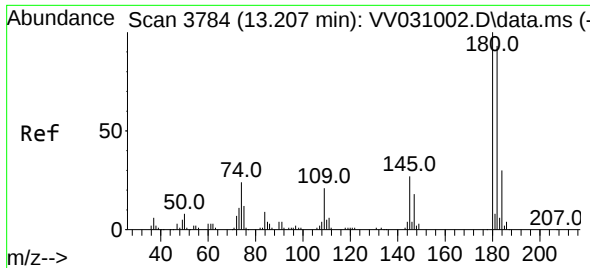
Tgt Ion:146 Resp: 59197
Ion Ratio Lower Upper
146 100
111 36.4 26.5 49.3
148 62.8 43.4 80.6



#65
1,4-Dichlorobenzene
Concen: 2.021 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. 0.000 min
Lab File: VV031005.D
Acq: 08 May 2023 13:16

Tgt Ion:146 Resp: 39805
Ion Ratio Lower Upper
146 100
111 35.9 23.9 44.5
148 60.6 42.8 79.6

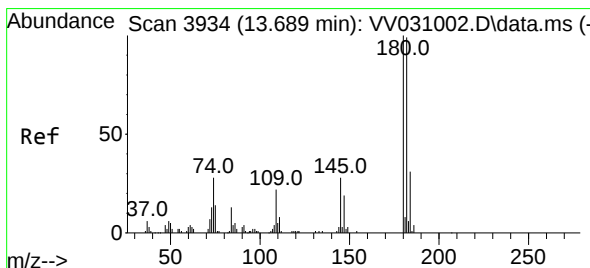
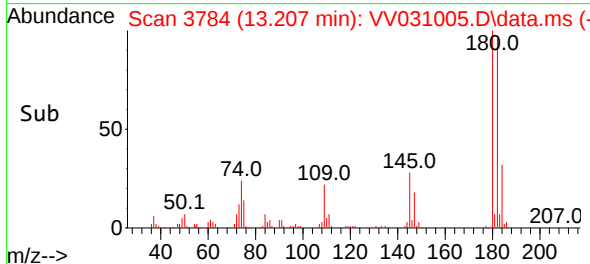
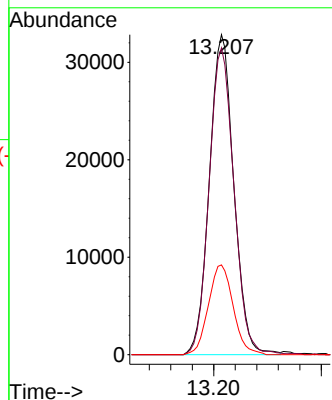
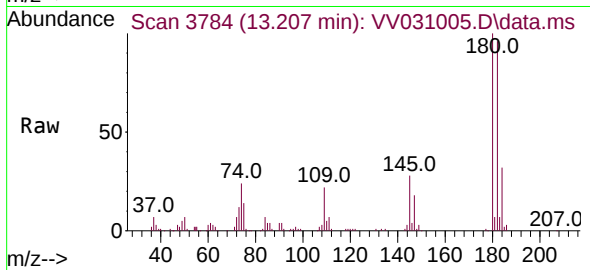




#70
 1,2,4-trichlorobenzene
 Concen: 4.360 ug/L
 RT: 13.207 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VV031005.D
 Acq: 08 May 2023 13:16

Instrument :
 MSVOA_V
 ClientSampleId :
 X3G07

Tgt Ion:180 Resp: 51785
 Ion Ratio Lower Upper
 180 100
 182 97.2 76.0 114.0
 145 28.4 22.9 34.3



#72
 1,2,3-Trichlorobenzene
 Concen: 2.639 ug/L
 RT: 13.689 min Scan# 3934
 Delta R.T. 0.000 min
 Lab File: VV031005.D
 Acq: 08 May 2023 13:16

Tgt Ion:180 Resp: 26537
 Ion Ratio Lower Upper
 180 100
 182 94.8 77.3 115.9
 145 29.3 24.7 37.1

