

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041323\
 Data File : VW030548.D
 Acq On : 13 Apr 2023 16:22
 Operator : SY/MD
 Sample : 02275-15
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHE00

Quant Time: Apr 14 05:22:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Apr 14 05:16:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	140149	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.796	117	130934	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.198	152	59525	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	58314	6.282	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	125.600%
7) Chloroethane-d5	1.536	69	44949	4.990	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.800%
11) 1,1-Dichloroethene-d2	2.066	63	121567	5.519	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	110.400%
20) 2-Butanone-d5	3.812	46	112465	46.877	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.760%
24) Chloroform-d	4.262	84	98104	4.367	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.400%
26) 1,2-Dichloroethane-d4	4.957	65	52465	4.950	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.000%
32) Benzene-d6	4.973	84	175406	4.754	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.000%
36) 1,2-Dichloropropane-d6	5.998	67	56643	4.904	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.000%
41) Toluene-d8	7.252	98	147589	4.356	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.200%
43) trans-1,3-Dichloroprop...	7.564	79	18284	4.204	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.000%
46) 2-Hexanone-d5	8.034	63	81844	46.832	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.660%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	37238	4.090	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.800%
66) 1,2-Dichlorobenzene-d4	11.571	152	51378	4.829	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	1931	0.086	ug/L	97
5) Vinyl chloride	1.285	62	1669	0.102	ug/L #	7
6) Bromomethane	1.494	94	557	0.119	ug/L	79
10) 1,1,2-Trichloro-1,2,2-...	2.073	101	54595	4.140	ug/L	97
12) 1,1-Dichloroethene	2.076	96	68621	5.860	ug/L	86
17) Methyl tert-butyl Ether	2.716	73	40741	1.643	ug/L #	90
18) trans-1,2-Dichloroethene	2.703	96	1420	0.115	ug/L	84
19) 1,1-Dichloroethane	3.121	63	35615	1.489	ug/L	94
22) cis-1,2-Dichloroethene	3.825	96	207373	16.749	ug/L #	99
27) 1,2-Dichloroethane	5.072	62	2078	0.142	ug/L #	73
29) 1,1,1-Trichloroethane	4.523	97	20987	0.997	ug/L	98
31) Carbon tetrachloride	4.523	117	2616	0.137	ug/L	96
33) Benzene	5.027	78	7281	0.157	ug/L	100
34) Trichloroethene	5.844	95	4492634	358.195	ug/L	95
35) Methylcyclohexane	5.998	83	14404	0.732	ug/L #	17
37) 1,2-Dichloropropane	6.002	63	6741	0.565	ug/L #	87
39) cis-1,3-Dichloropropene	6.924	75	1656	0.099	ug/L #	52
44) trans-1,3-Dichloropropene	7.558	75	1240	0.087	ug/L	87
45) 1,1,2-Trichloroethane	7.783	97	4116	0.490	ug/L	96

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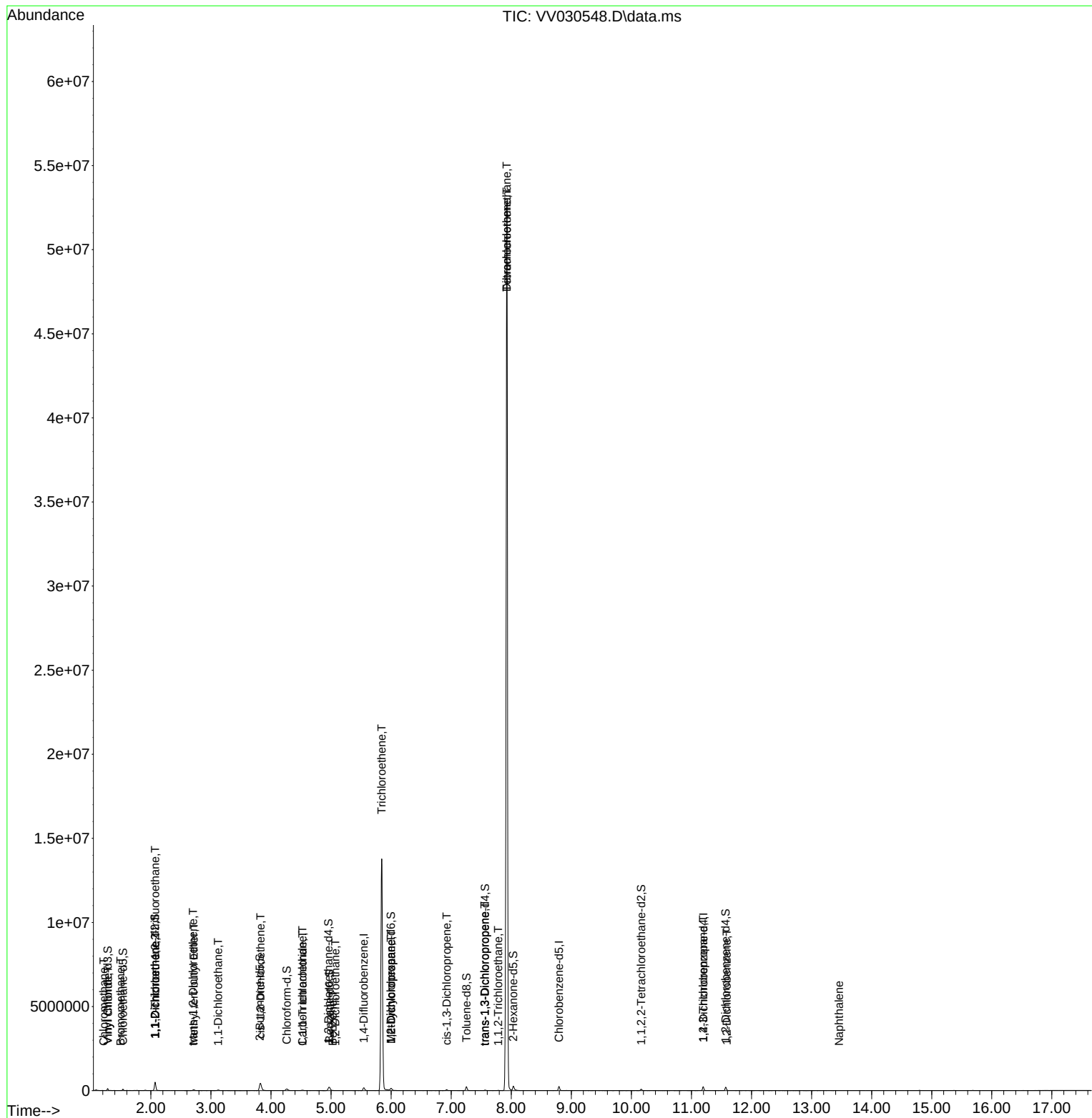
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	7.928	164	10213937	922.725	ug/L	92
49) Dibromochloromethane	7.928	129	10042329	1003.561	ug/L #	12
61) 1,2,3-Trichloropropane	11.194	75	7612	1.430	ug/L #	66
67) 1,2-Dichlorobenzene	11.590	146	1766	0.090	ug/L #	78
71) Naphthalene	13.458	128	1804	0.097	ug/L #	95

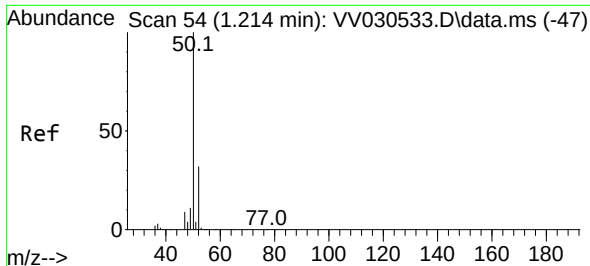
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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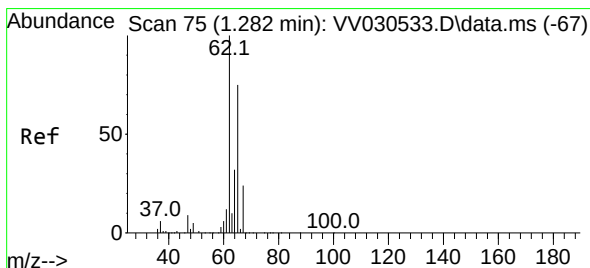
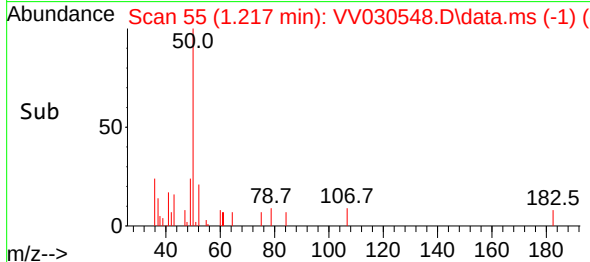
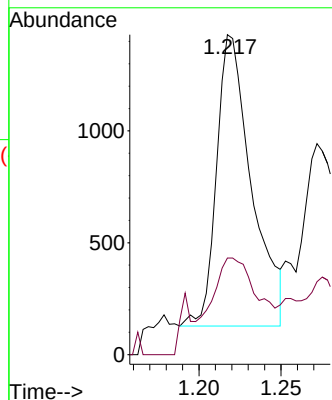
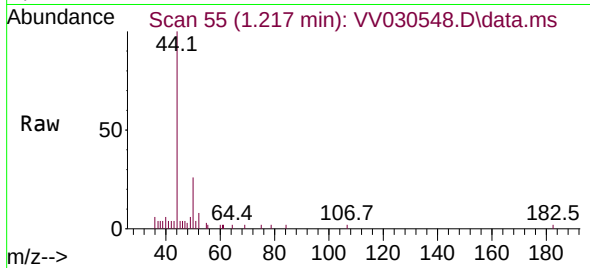




#3
Chloromethane
Concen: 0.086 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

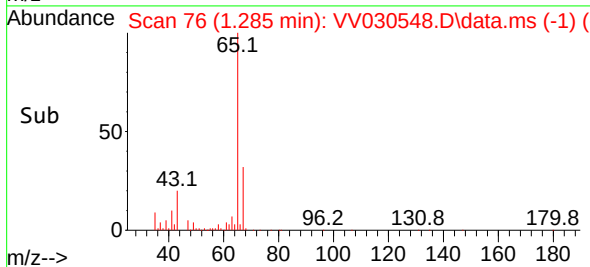
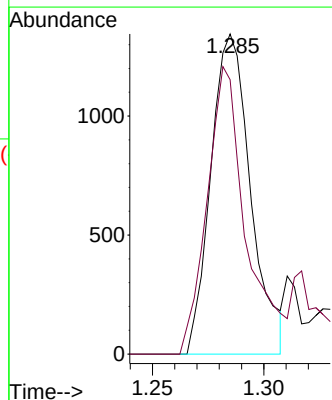
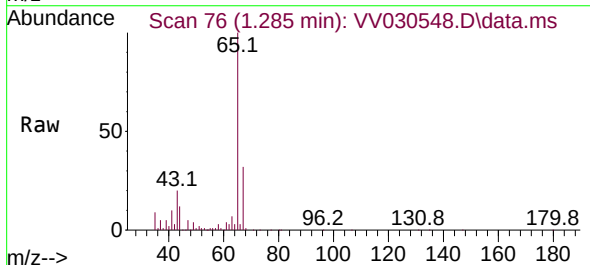
Instrument :
MSVOA_V
ClientSampleId :
BHE00

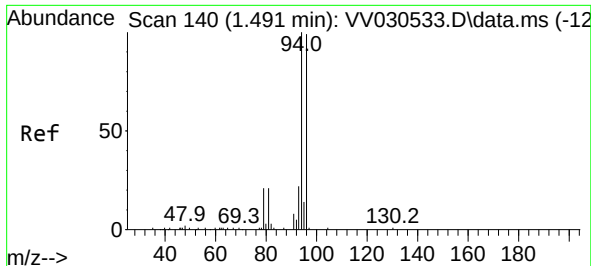
Tgt Ion: 50 Resp: 1931
Ion Ratio Lower Upper
50 100
52 30.2 22.3 41.5



#5
Vinyl chloride
Concen: 0.102 ug/L
RT: 1.285 min Scan# 76
Delta R.T. 0.003 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

Tgt Ion: 62 Resp: 1669
Ion Ratio Lower Upper
62 100
64 85.7 23.2 43.2#

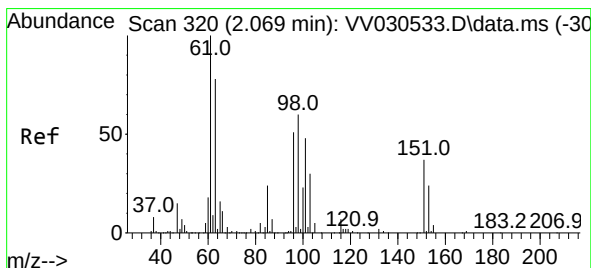
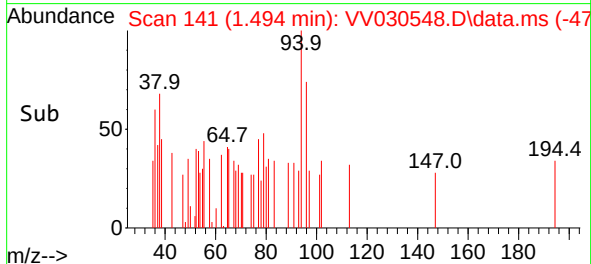
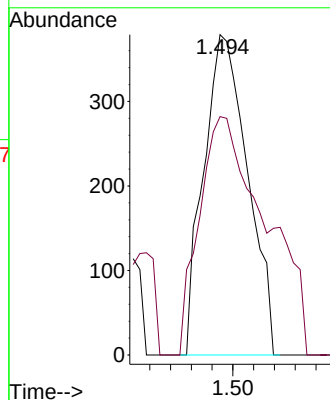
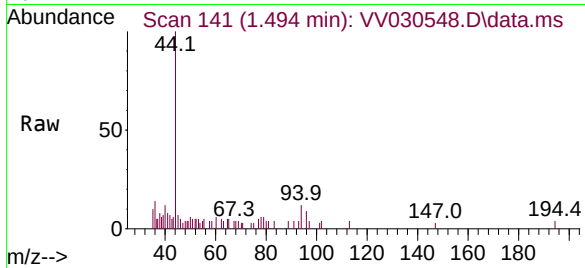




#6
Bromomethane
Concen: 0.119 ug/L
RT: 1.494 min Scan# 140
Delta R.T. 0.003 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

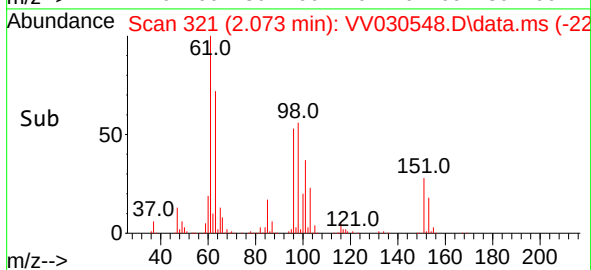
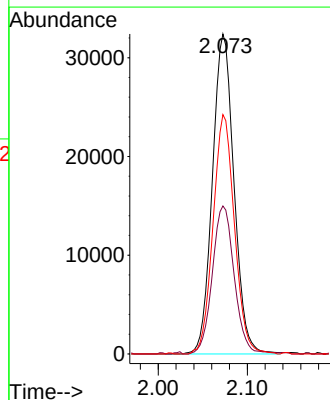
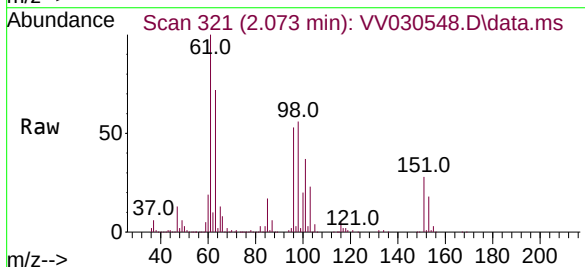
Instrument :
MSVOA_V
ClientSampleId :
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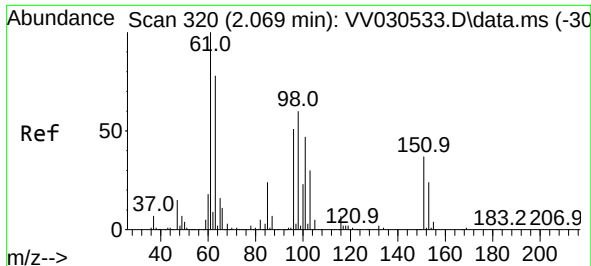
Tgt Ion: 94 Resp: 557
Ion Ratio Lower Upper
94 100
96 74.4 66.1 122.7



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 4.140 ug/L
RT: 2.073 min Scan# 321
Delta R.T. 0.003 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

Tgt Ion: 101 Resp: 54595
Ion Ratio Lower Upper
101 100
85 47.1 38.1 57.1
151 74.1 62.7 94.1

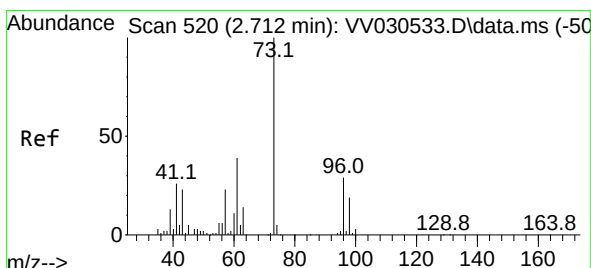
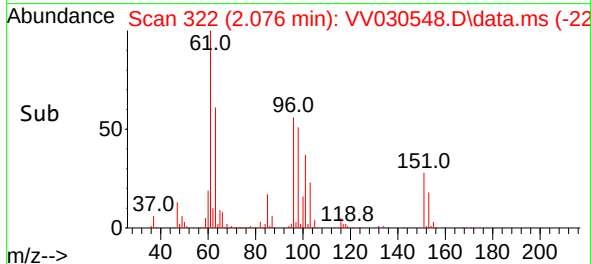
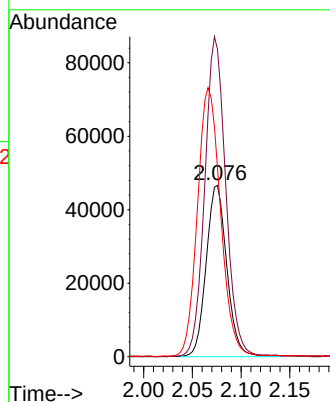
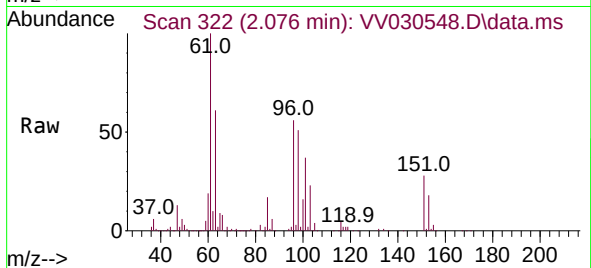




#12
 1,1-Dichloroethene
 Concen: 5.860 ug/L
 RT: 2.076 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: VV030548.D
 Acq: 13 Apr 2023 16:22

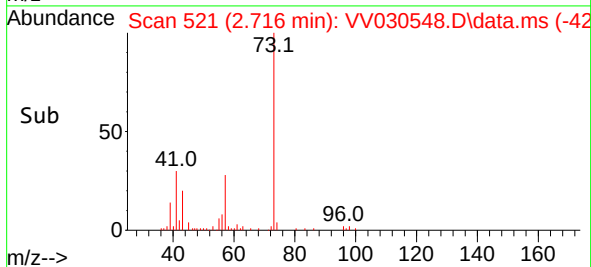
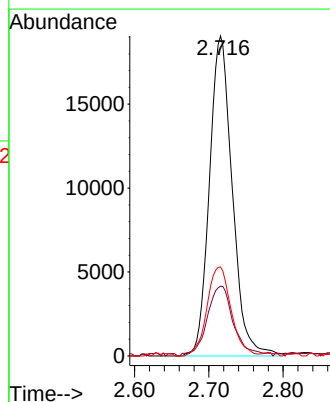
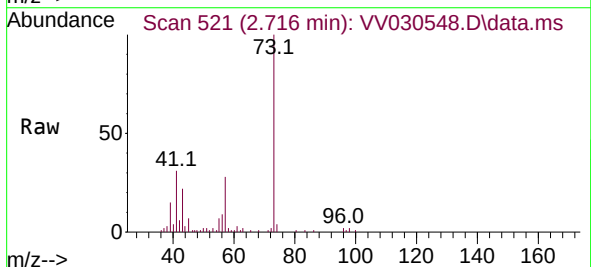
Instrument :
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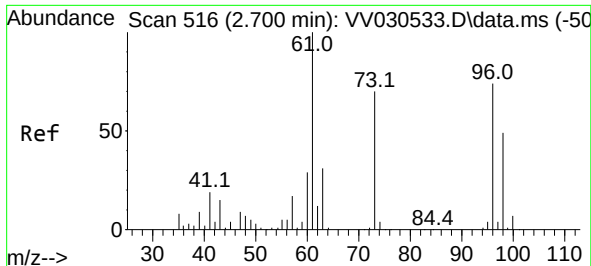
Tgt Ion: 96 Resp: 68621
 Ion Ratio Lower Upper
 96 100
 61 179.3 136.3 253.1
 63 110.2 92.1 171.1



#17
 Methyl tert-butyl Ether
 Concen: 1.643 ug/L
 RT: 2.716 min Scan# 521
 Delta R.T. 0.003 min
 Lab File: VV030548.D
 Acq: 13 Apr 2023 16:22

Tgt Ion: 73 Resp: 40741
 Ion Ratio Lower Upper
 73 100
 43 24.9 17.4 26.2
 57 29.4 18.3 27.5#

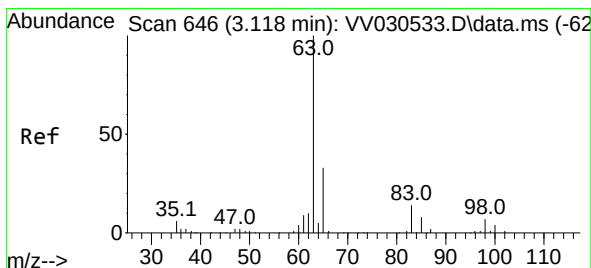
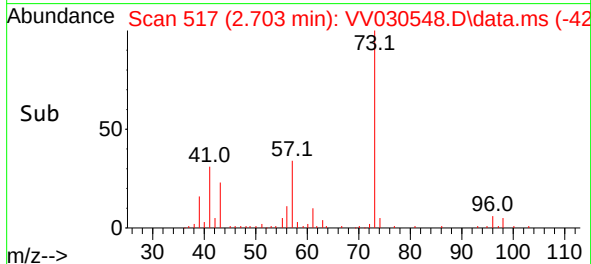
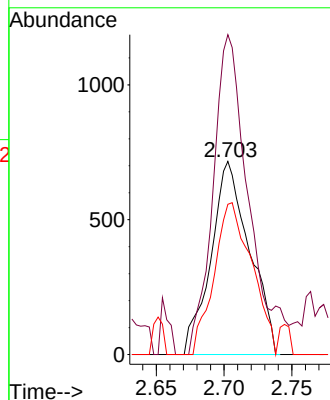
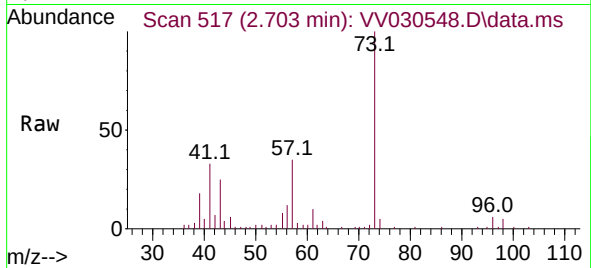




#18
trans-1,2-Dichloroethene
Concen: 0.115 ug/L
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

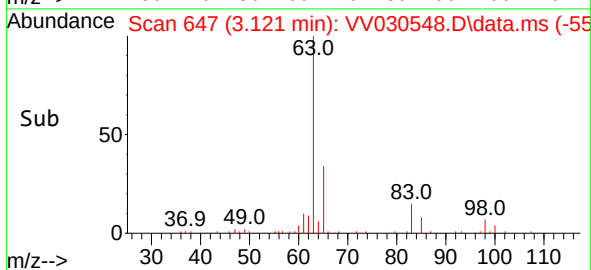
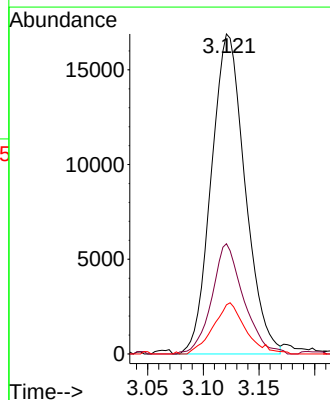
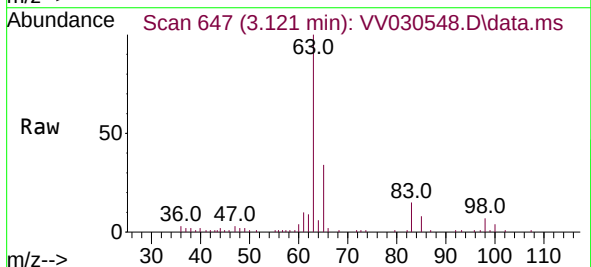
Instrument :
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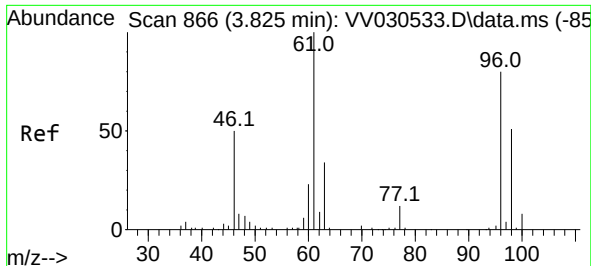
Tgt Ion: 96 Resp: 1420
Ion Ratio Lower Upper
96 100
61 165.6 101.7 188.9
98 77.8 45.8 85.2



#19
1,1-Dichloroethane
Concen: 1.489 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

Tgt Ion: 63 Resp: 35615
Ion Ratio Lower Upper
63 100
65 34.5 21.7 40.3
83 15.3 9.1 16.9





#22

cis-1,2-Dichloroethene

Concen: 16.749 ug/L

RT: 3.825 min Scan# 866

Delta R.T. 0.000 min

Lab File: VV030548.D

Acq: 13 Apr 2023 16:22

Instrument :

MSVOA_V

ClientSampleId :

BHE00

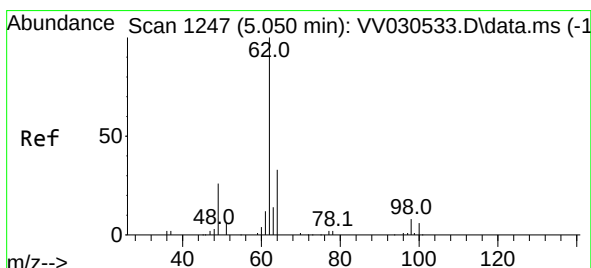
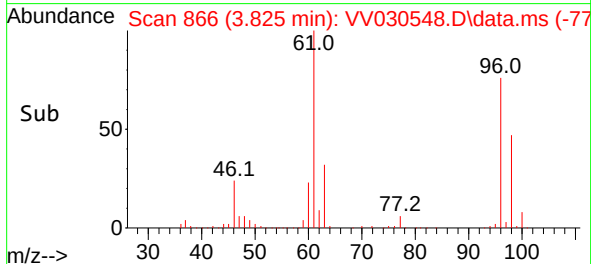
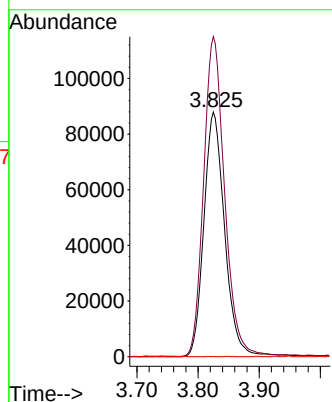
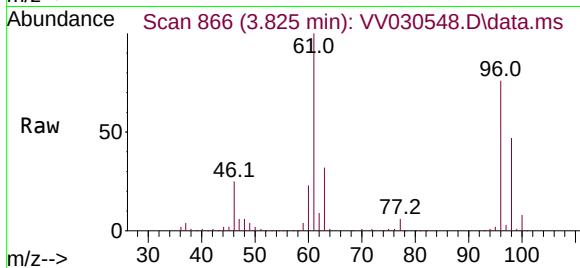
Tgt Ion: 96 Resp: 207373

Ion Ratio Lower Upper

96 100

61 130.8 92.0 170.8

68 0.1 0.0 0.0#



#27

1,2-Dichloroethane

Concen: 0.142 ug/L

RT: 5.072 min Scan# 1254

Delta R.T. 0.023 min

Lab File: VV030548.D

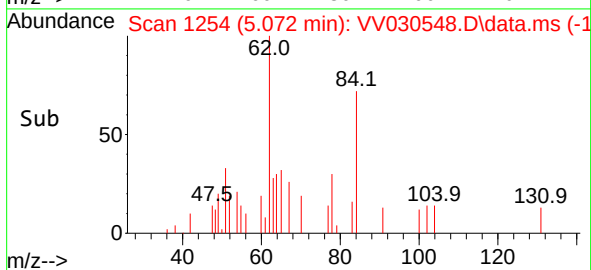
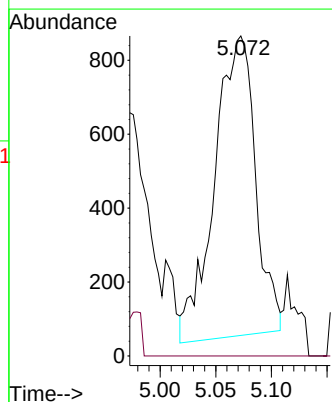
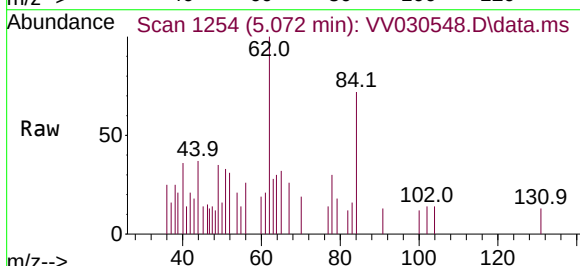
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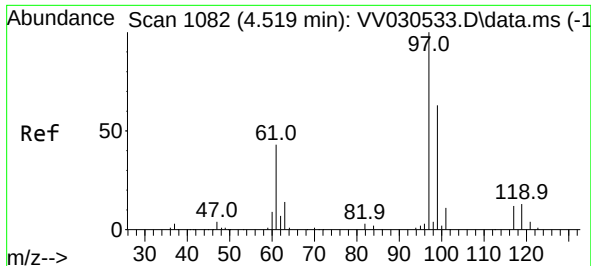
Tgt Ion: 62 Resp: 2078

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.8#





#29

1,1,1-Trichloroethane

Concen: 0.997 ug/L

RT: 4.523 min Scan# 1083

Delta R.T. 0.003 min

Lab File: VV030548.D

Acq: 13 Apr 2023 16:22

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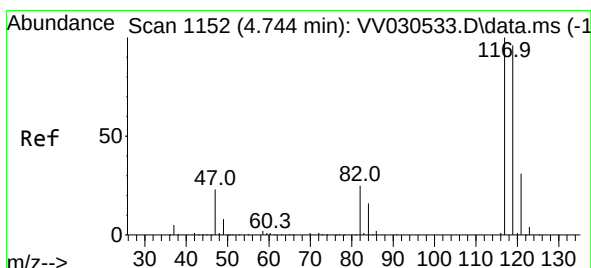
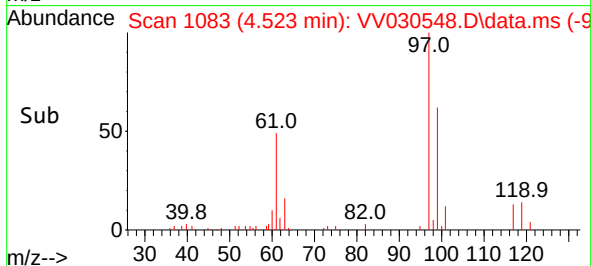
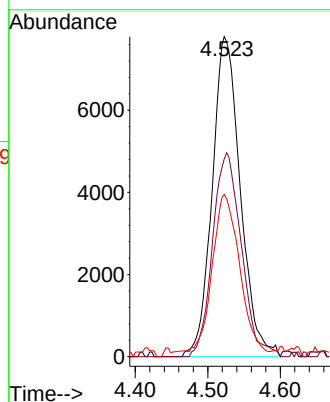
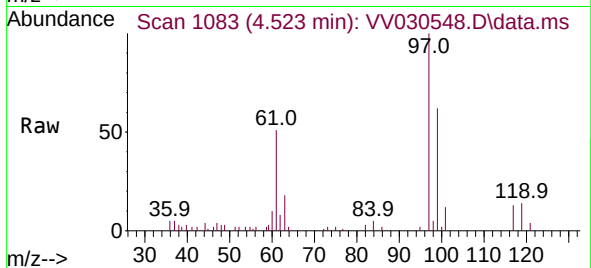
Tgt Ion: 97 Resp: 20987

Ion Ratio Lower Upper

97 100

99 64.9 50.9 76.3

61 46.8 35.9 53.9



#31

Carbon tetrachloride

Concen: 0.137 ug/L

RT: 4.523 min Scan# 1083

Delta R.T. -0.222 min

Lab File: VV030548.D

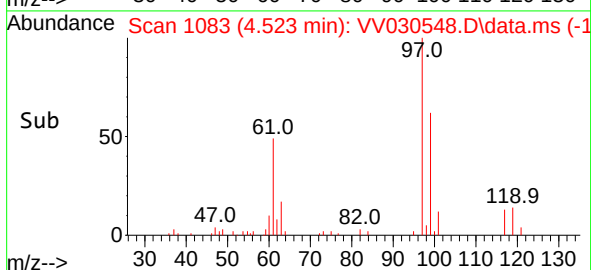
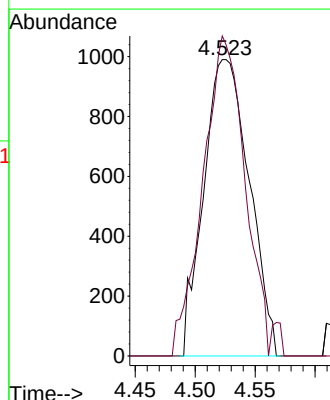
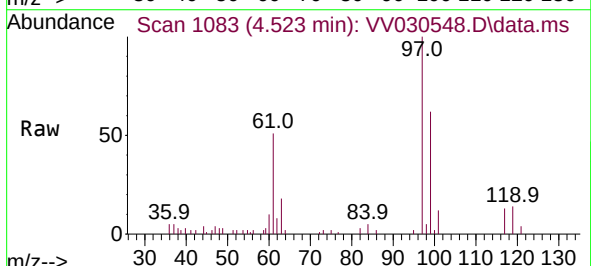
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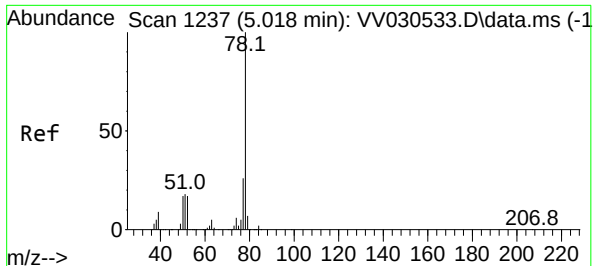
Tgt Ion: 117 Resp: 2616

Ion Ratio Lower Upper

117 100

119 99.1 76.2 114.4

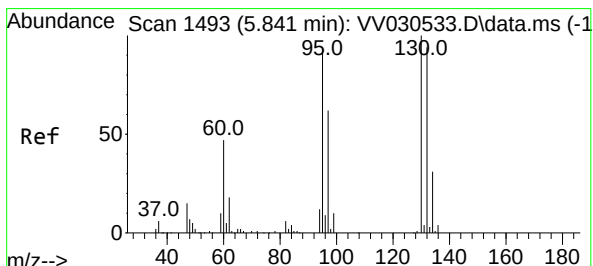
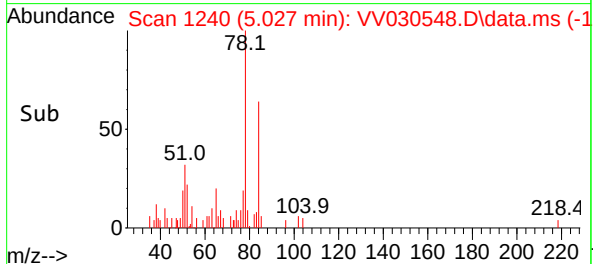
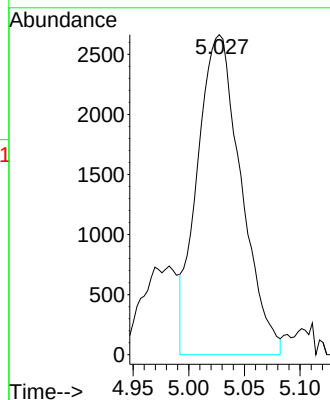
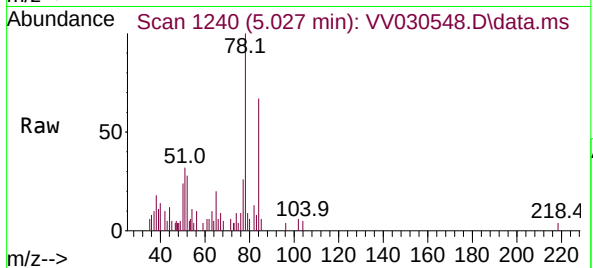




#33
Benzene
Concen: 0.157 ug/L
RT: 5.027 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

Instrument :
MSVOA_V
ClientSampleId :
BHE00

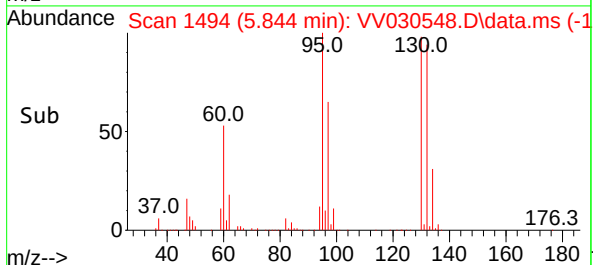
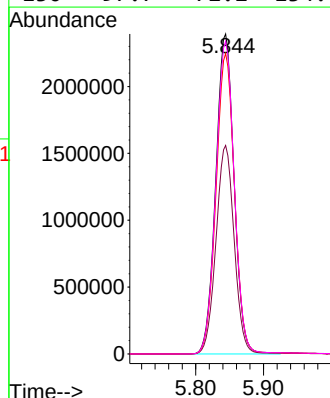
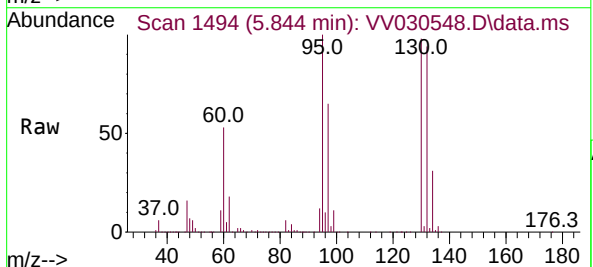
Tgt Ion: 78 Resp: 7281

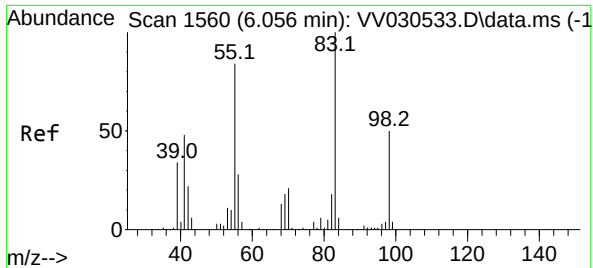


#34
Trichloroethene
Concen: 358.195 ug/L
RT: 5.844 min Scan# 1494
Delta R.T. 0.003 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

Tgt Ion: 95 Resp: 4492634

Ion	Ratio	Lower	Upper
95	100		
97	65.2	44.2	82.2
132	93.9	69.5	129.1
130	97.7	72.2	134.0

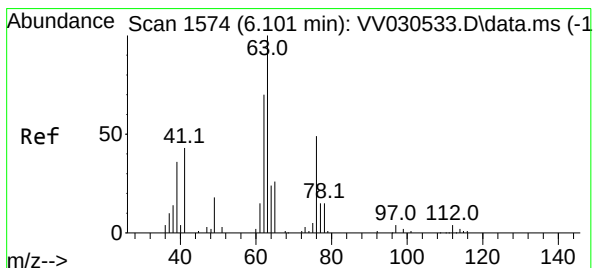
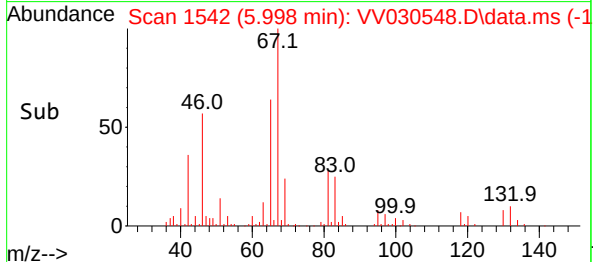
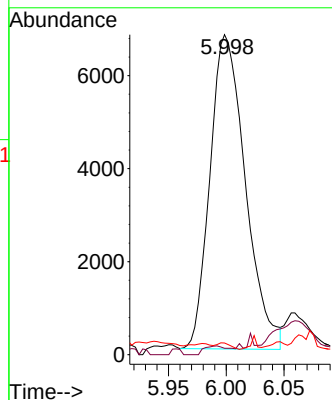
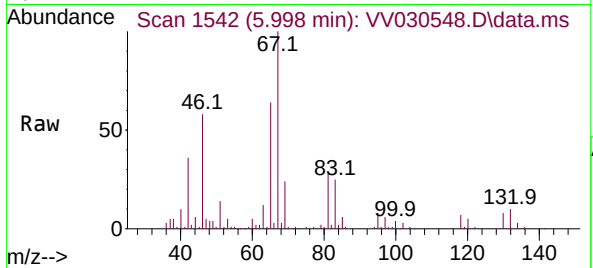




#35
Methylcyclohexane
Concen: 0.732 ug/L
RT: 5.998 min Scan# 1542
Delta R.T. -0.058 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

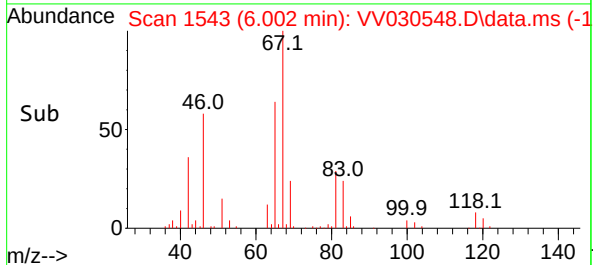
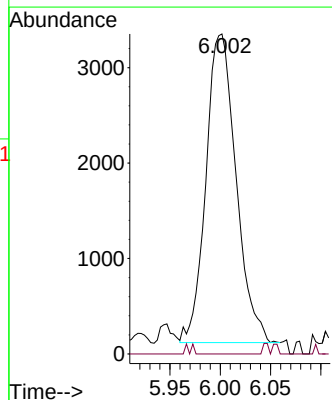
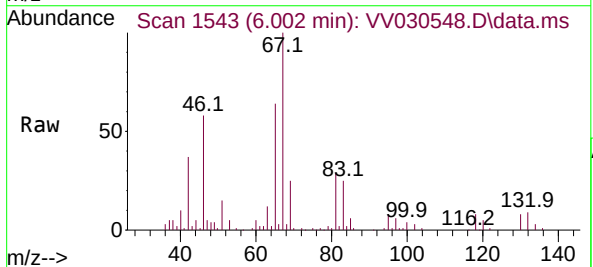
Instrument :
MSVOA_V
ClientSampleId :
BHE00

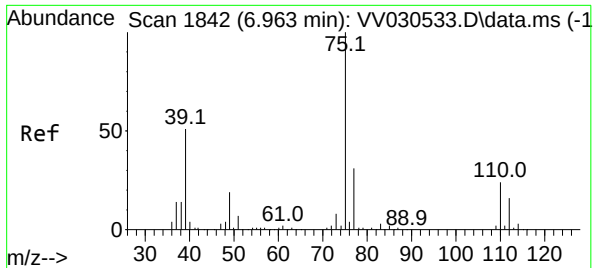
Tgt Ion: 83 Resp: 14404
Ion Ratio Lower Upper
83 100
55 1.7 66.6 100.0#
98 0.0 38.6 58.0#



#37
1,2-Dichloropropane
Concen: 0.565 ug/L
RT: 6.002 min Scan# 1543
Delta R.T. -0.100 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

Tgt Ion: 63 Resp: 6741
Ion Ratio Lower Upper
63 100
112 0.6 3.9 5.9#





#39

cis-1,3-Dichloropropene

Concen: 0.099 ug/L

RT: 6.924 min Scan# 1842

Delta R.T. -0.039 min

Lab File: VV030548.D

Acq: 13 Apr 2023 16:22

Instrument :

MSVOA_V

ClientSampleId :

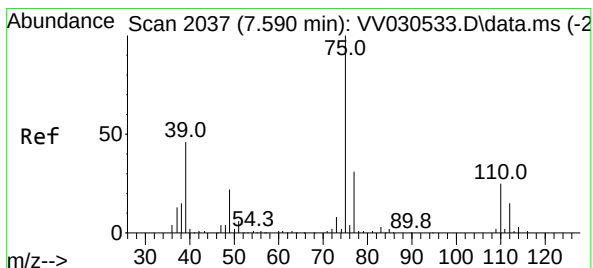
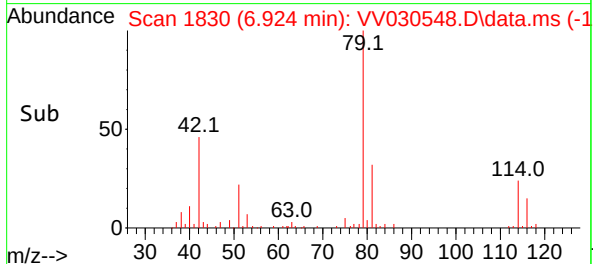
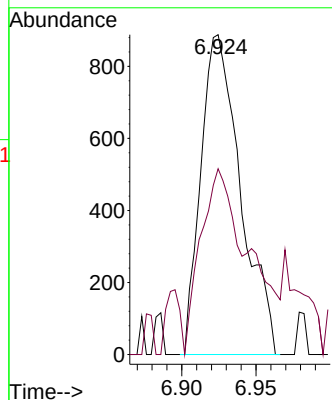
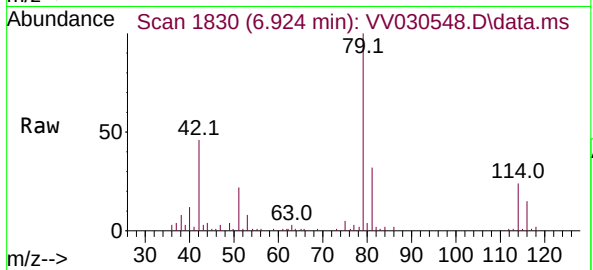
BHE00

Tgt Ion: 75 Resp: 1656

Ion Ratio Lower Upper

75 100

77 58.1 22.0 41.0#



#44

trans-1,3-Dichloropropene

Concen: 0.087 ug/L

RT: 7.558 min Scan# 2037

Delta R.T. -0.032 min

Lab File: VV030548.D

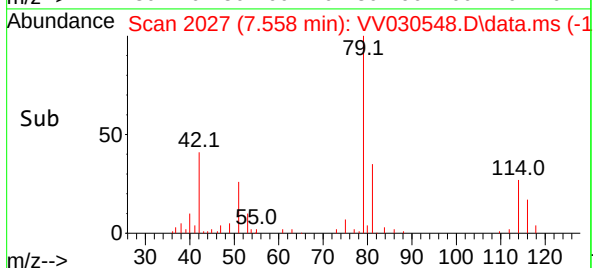
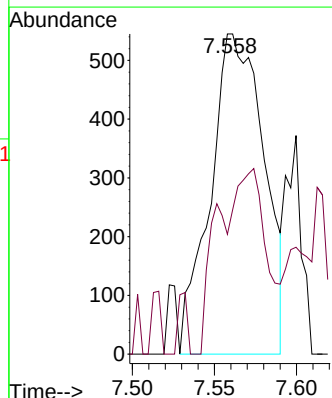
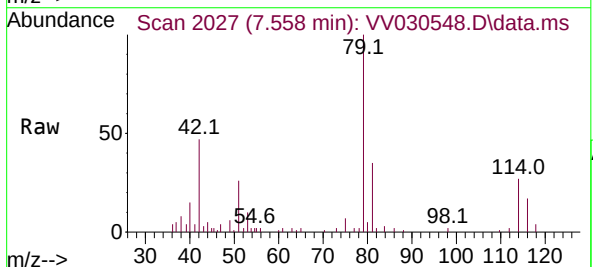
Acq: 13 Apr 2023 16:22

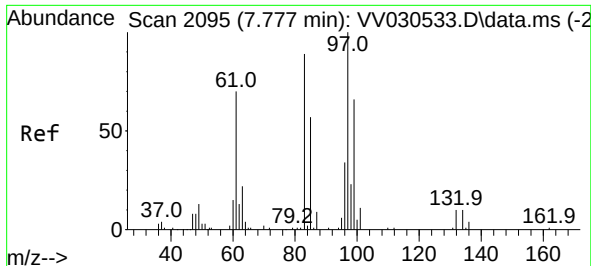
Tgt Ion: 75 Resp: 1240

Ion Ratio Lower Upper

75 100

77 37.4 21.2 39.4

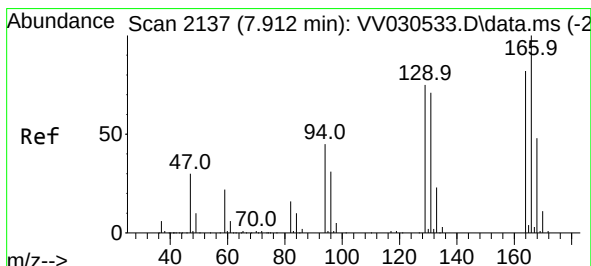
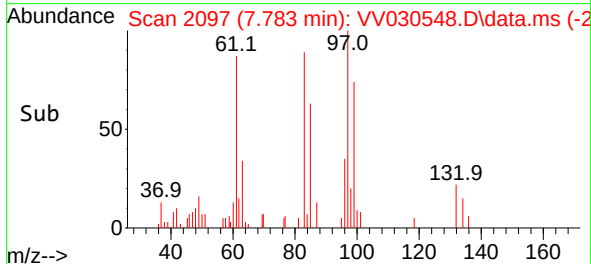
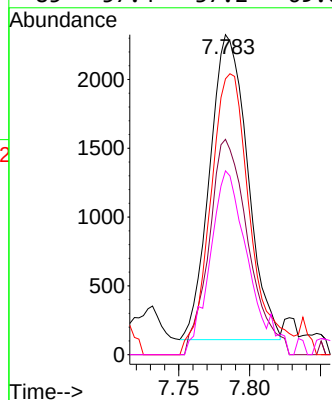
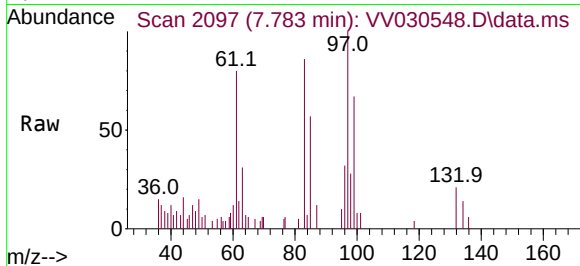




#45
1,1,2-Trichloroethane
Concen: 0.490 ug/L
RT: 7.783 min Scan# 2095
Delta R.T. 0.006 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

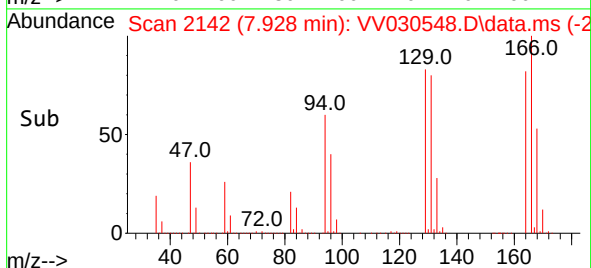
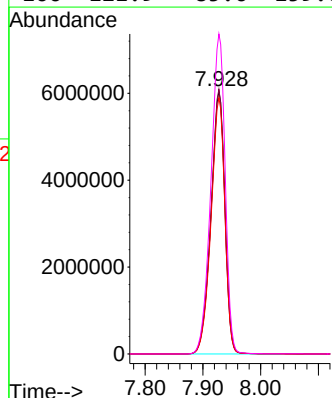
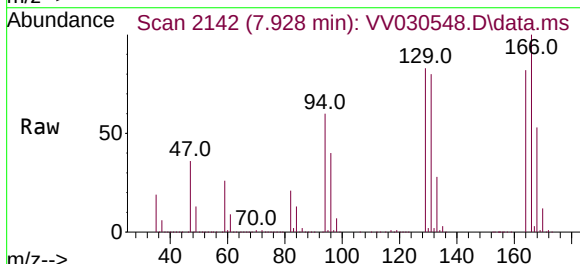
Instrument :
MSVOA_V
ClientSampleId :
BHE00

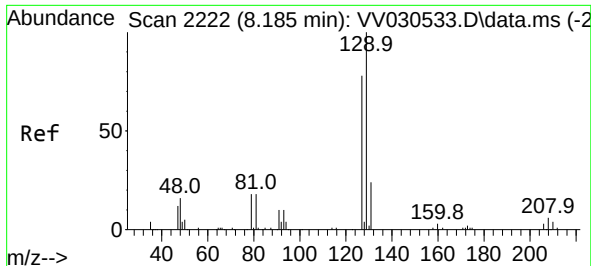
Tgt Ion:	97	Resp:	4116
Ion	Ratio	Lower	Upper
97	100		
99	67.3	44.0	81.8
83	86.2	58.8	109.2
85	57.4	37.2	69.0



#47
Tetrachloroethene
Concen: 922.725 ug/L
RT: 7.928 min Scan# 2142
Delta R.T. 0.016 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

Tgt Ion:	164	Resp:	10213937
Ion	Ratio	Lower	Upper
164	100		
129	100.8	60.8	112.8
131	97.6	61.7	114.7
166	121.9	85.6	159.0





#49

Dibromochloromethane

Concen: 1003.561 ug/L

RT: 7.928 min Scan# 2142

Delta R.T. -0.257 min

Lab File: VV030548.D

Acq: 13 Apr 2023 16:22

Instrument :

MSVOA_V

ClientSampleId :

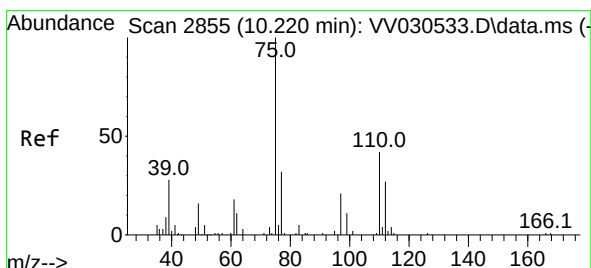
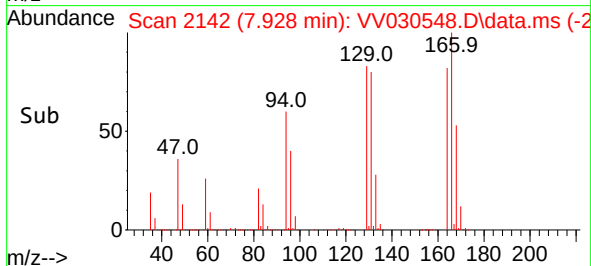
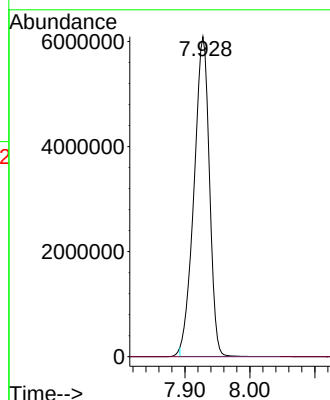
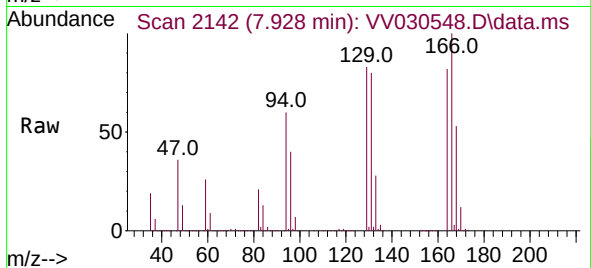
BHE00

Tgt Ion:129 Resp:10042329

Ion Ratio Lower Upper

129 100

127 0.0 52.7 97.9#



#61

1,2,3-Trichloropropane

Concen: 1.430 ug/L

RT: 11.194 min Scan# 3158

Delta R.T. 0.974 min

Lab File: VV030548.D

Acq: 13 Apr 2023 16:22

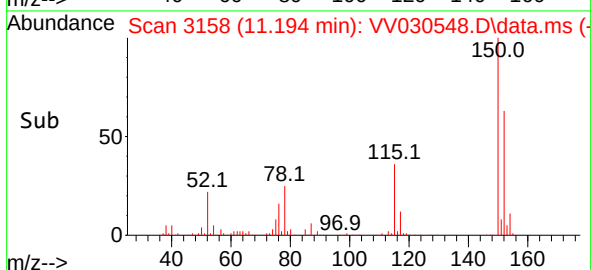
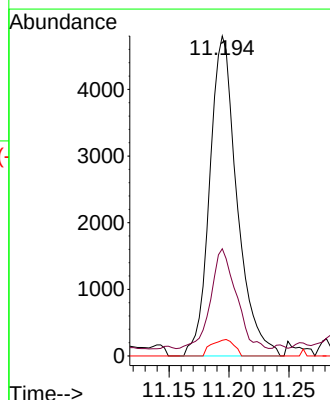
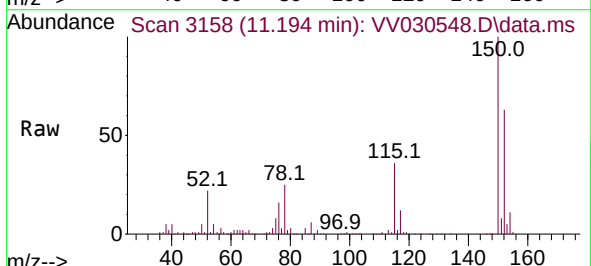
Tgt Ion: 75 Resp: 7612

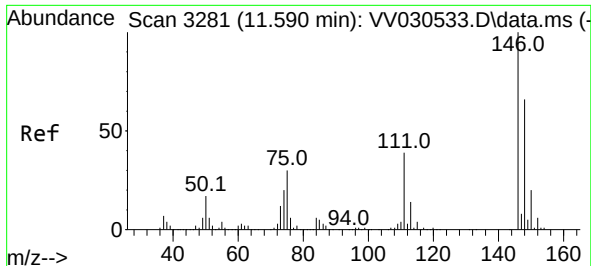
Ion Ratio Lower Upper

75 100

77 28.8 26.0 39.0

110 4.2 31.6 47.4#

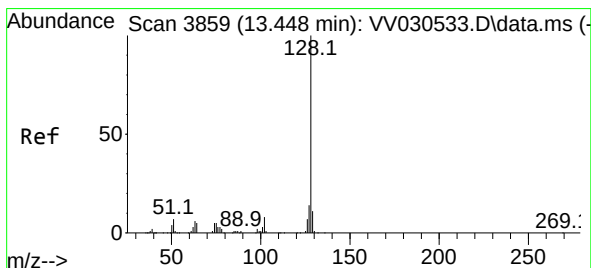
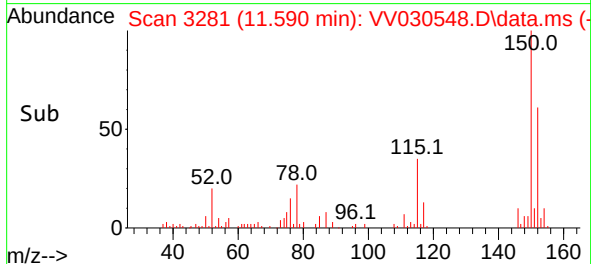
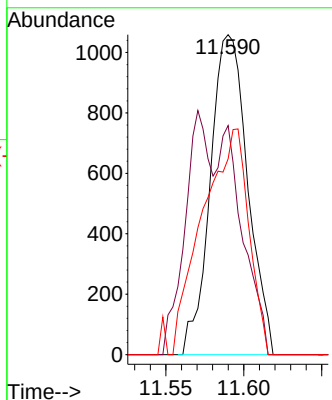
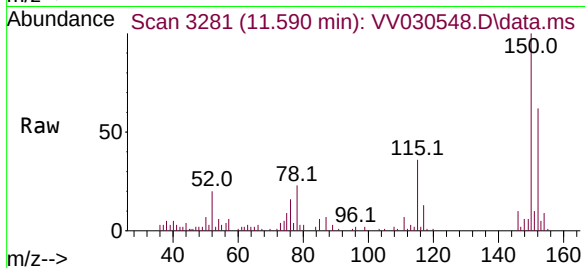




#67
1,2-Dichlorobenzene
Concen: 0.090 ug/L
RT: 11.590 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

Instrument :
MSVOA_V
ClientSampleId :
BHE00

Tgt Ion:146 Resp: 1766
Ion Ratio Lower Upper
146 100
111 71.6 33.1 49.7#
148 61.2 52.2 78.2



#71
Naphthalene
Concen: 0.097 ug/L
RT: 13.458 min Scan# 3862
Delta R.T. 0.010 min
Lab File: VV030548.D
Acq: 13 Apr 2023 16:22

Tgt Ion:128 Resp: 1804
Ion Ratio Lower Upper
128 100
129 14.1 8.9 13.3#
127 14.8 10.8 16.2

