

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW040723\
 Data File : VW030445.D
 Acq On : 07 Apr 2023 16:07
 Operator : SY/MD
 Sample : 02194-15
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHDx2

Quant Time: Apr 10 03:57:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Apr 10 03:52:52 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	124645	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	123150	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	60057	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	34942	4.233	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.600%
7) Chloroethane-d5	1.536	69	38179	4.766	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.400%
11) 1,1-Dichloroethene-d2	2.066	63	93264	4.761	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.200%
20) 2-Butanone-d5	3.818	46	122359	57.345	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.680%
24) Chloroform-d	4.259	84	100176	5.014	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.200%
26) 1,2-Dichloroethane-d4	4.953	65	51598	5.474	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.400%
32) Benzene-d6	4.969	84	177513	5.115	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.400%
36) 1,2-Dichloropropane-d6	5.998	67	58016	5.340	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.800%
41) Toluene-d8	7.252	98	152911	4.798	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.000%
43) trans-1,3-Dichloroprop...	7.564	79	18593	4.545	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.000%
46) 2-Hexanone-d5	8.037	63	87014	52.937	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.880%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	39518	4.615	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.400%
66) 1,2-Dichlorobenzene-d4	11.570	152	57698	5.375	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	107.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	2123	0.106	ug/L	100
5) Vinyl chloride	1.285	62	21856	1.499	ug/L	98
12) 1,1-Dichloroethene	2.076	96	45369	4.356	ug/L	93
17) Methyl tert-butyl Ether	2.716	73	77956	3.534	ug/L	99
18) trans-1,2-Dichloroethene	2.703	96	5863	0.534	ug/L	97
19) 1,1-Dichloroethane	3.121	63	48179	2.265	ug/L	95
22) cis-1,2-Dichloroethene	3.822	96	1549472	140.716	ug/L	99
27) 1,2-Dichloroethane	5.063	62	1762	0.136	ug/L #	73
29) 1,1,1-Trichloroethane	4.523	97	47408	2.395	ug/L	98
31) Carbon tetrachloride	4.526	117	6037	0.336	ug/L	98
33) Benzene	5.021	78	15548	0.355	ug/L	100
34) Trichloroethene	5.841	95	1248186	105.807	ug/L	98
35) Methylcyclohexane	5.998	83	14935	0.807	ug/L #	16
37) 1,2-Dichloropropane	5.998	63	7505	0.668	ug/L #	88
45) 1,1,2-Trichloroethane	7.792	97	717	0.091	ug/L	87
47) Tetrachloroethene	7.915	164	1782304	171.190	ug/L	96
49) Dibromochloromethane	7.915	129	1569703	166.780	ug/L #	12
51) Chlorobenzene	8.828	112	6450	0.216	ug/L	96
65) 1,4-Dichlorobenzene	11.223	146	2199	0.099	ug/L	98

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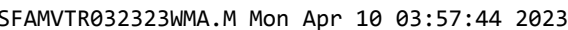
Instrument :
MSVOA_V
ClientSampleId :
BHDx2

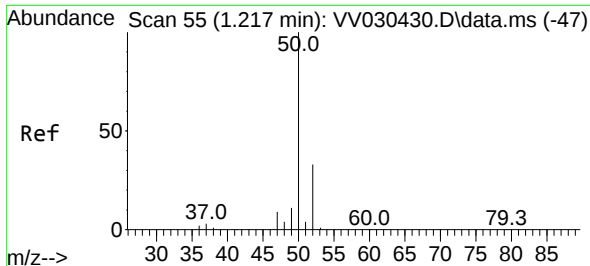
Quant Time: Apr 10 03:57:35 2023
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Quant Title : TRACE VOA SFAM1.0
QLast Update : Mon Apr 10 03:52:52 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	11.587	146	3211	0.161	ug/L #	86
71) Naphthalene	13.451	128	7928	0.423	ug/L	99

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

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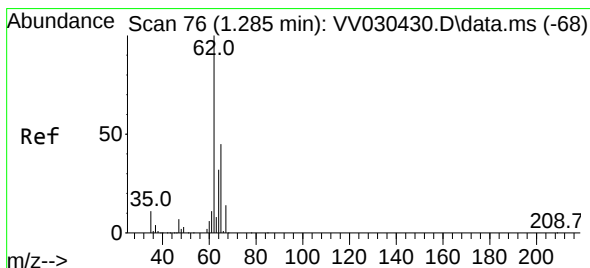
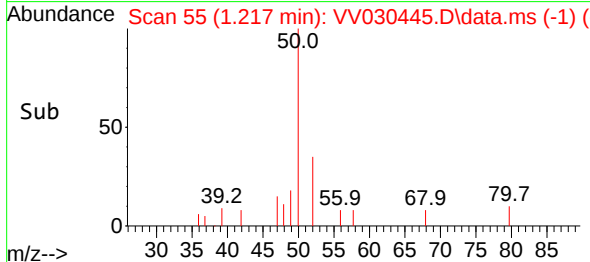
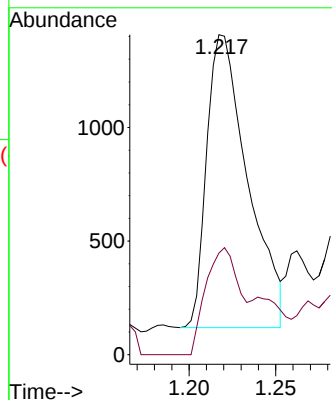
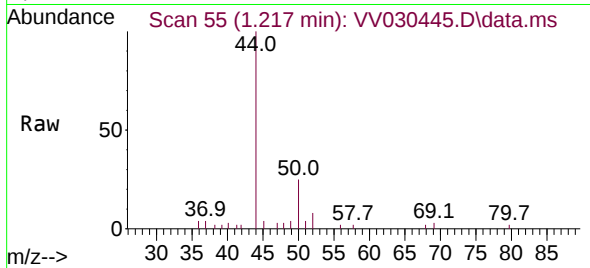




#3
Chloromethane
Concen: 0.106 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.000 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

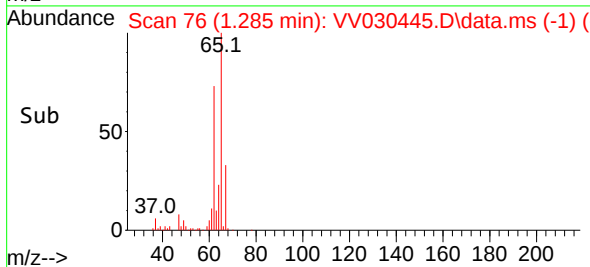
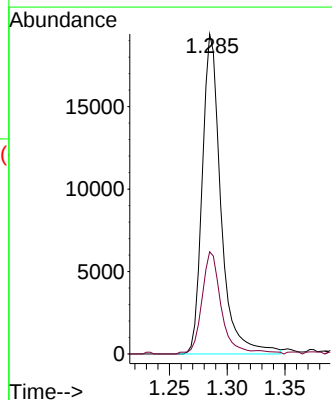
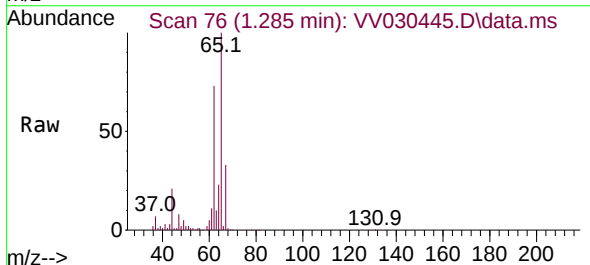
Instrument :
MSVOA_V
ClientSampleId :
BHDx2

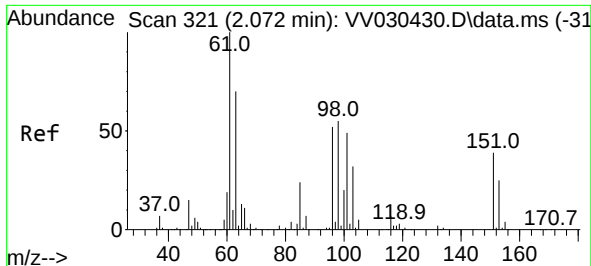
Tgt Ion: 50 Resp: 2123
Ion Ratio Lower Upper
50 100
52 31.7 22.3 41.5



#5
Vinyl chloride
Concen: 1.499 ug/L
RT: 1.285 min Scan# 76
Delta R.T. 0.000 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

Tgt Ion: 62 Resp: 21856
Ion Ratio Lower Upper
62 100
64 32.0 23.2 43.2





#12

1,1-Dichloroethene

Concen: 4.356 ug/L

RT: 2.076 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

Instrument :

MSVOA_V

ClientSampleId :

BHDX2

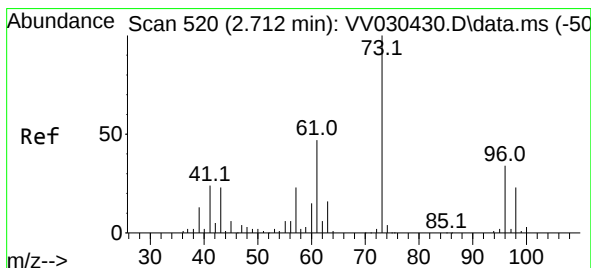
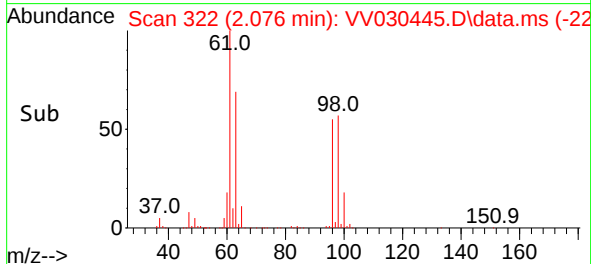
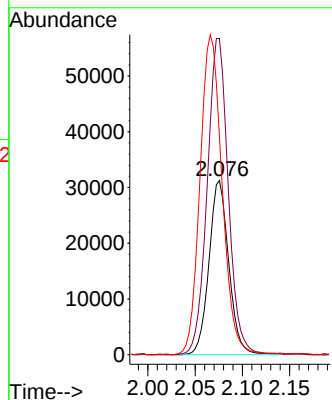
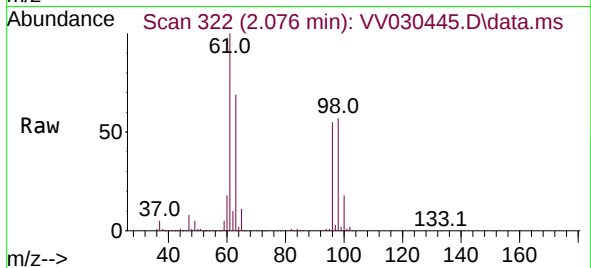
Tgt Ion: 96 Resp: 45369

Ion Ratio Lower Upper

96 100

61 181.6 136.3 253.1

63 125.8 92.1 171.1



#17

Methyl tert-butyl Ether

Concen: 3.534 ug/L

RT: 2.716 min Scan# 521

Delta R.T. 0.003 min

Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

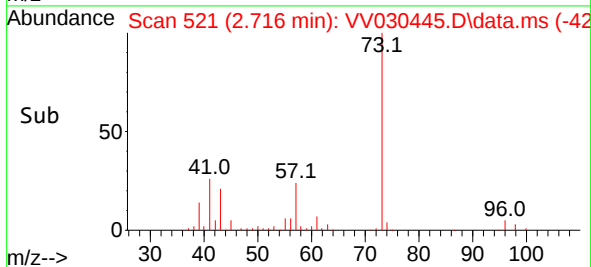
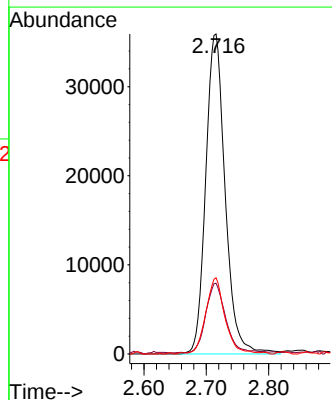
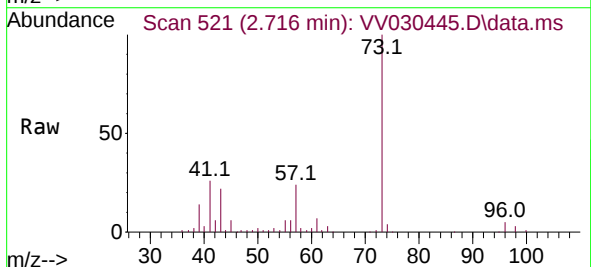
Tgt Ion: 73 Resp: 77956

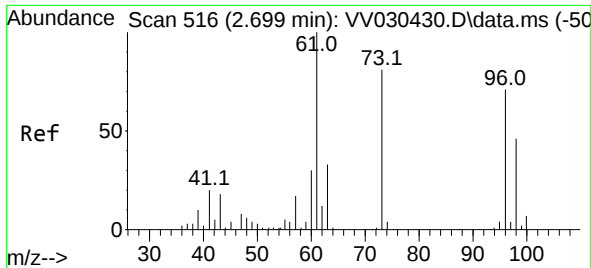
Ion Ratio Lower Upper

73 100

43 21.5 17.4 26.2

57 22.3 18.3 27.5

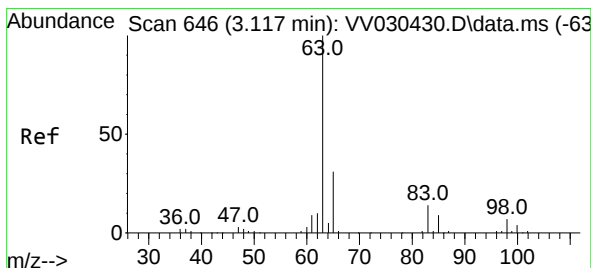
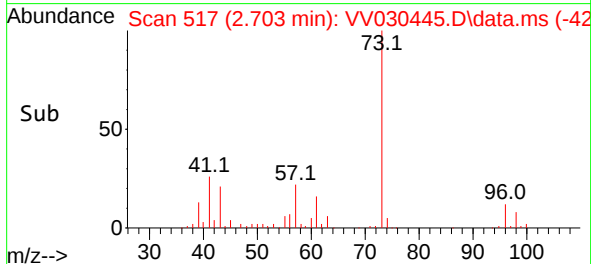
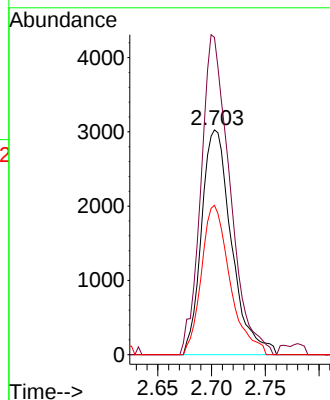
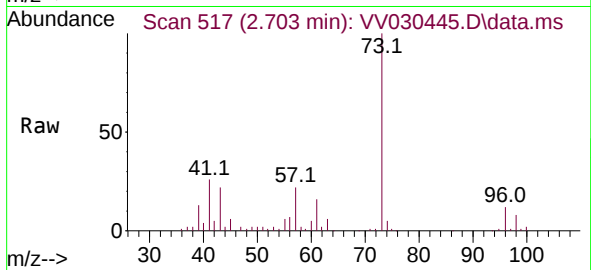




#18
trans-1,2-Dichloroethene
Concen: 0.534 ug/L
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

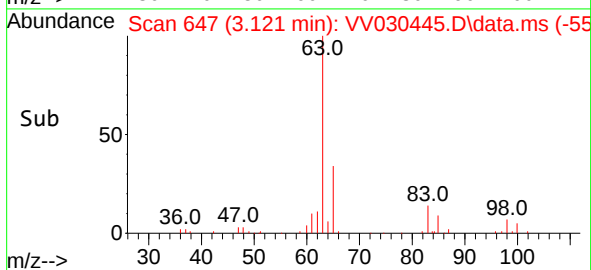
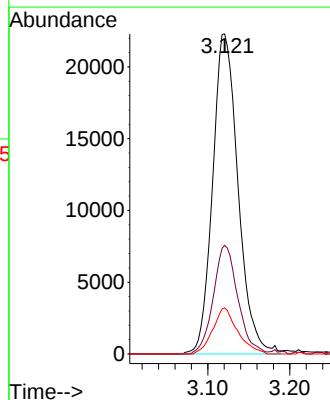
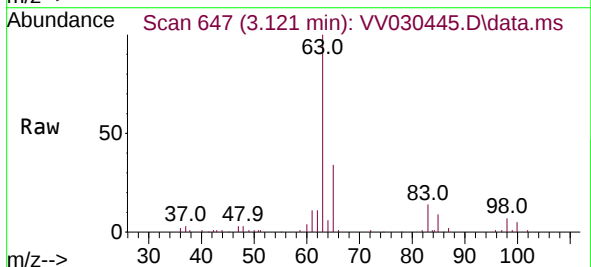
Instrument :
MSVOA_V
ClientSampleId :
BHDx2

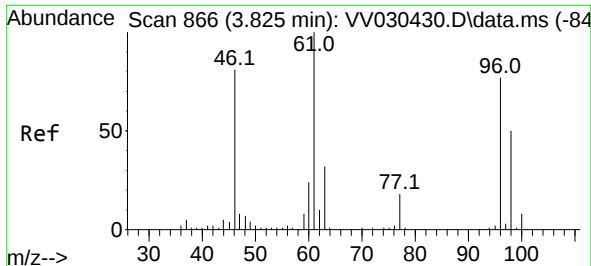
Tgt Ion: 96 Resp: 5863
Ion Ratio Lower Upper
96 100
61 141.1 101.7 188.9
98 66.5 45.8 85.2



#19
1,1-Dichloroethane
Concen: 2.265 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

Tgt Ion: 63 Resp: 48179
Ion Ratio Lower Upper
63 100
65 33.9 21.7 40.3
83 14.4 9.1 16.9





#22

cis-1,2-Dichloroethene

Concen: 140.716 ug/L

RT: 3.822 min Scan# 866

Delta R.T. -0.003 min

Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

Instrument :

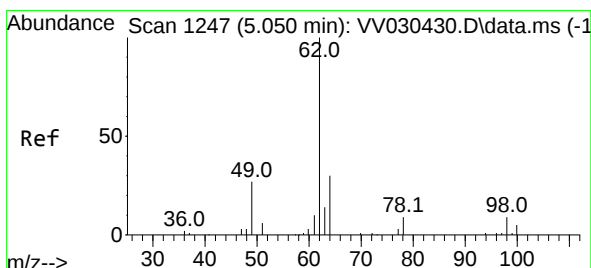
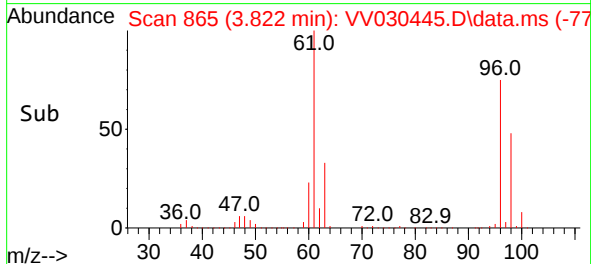
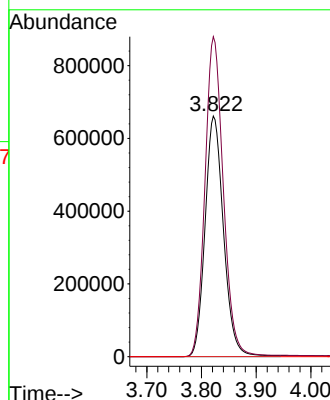
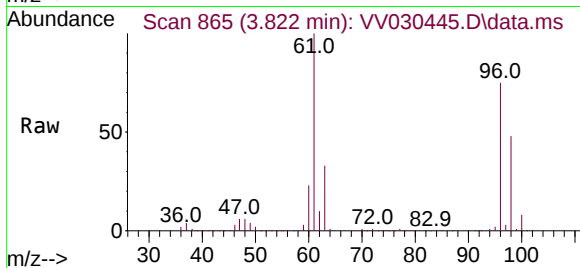
MSVOA_V

ClientSampleId :

BHDX2

Tgt Ion: 96 Resp: 1549472

Ion	Ratio	Lower	Upper
96	100		
61	133.0	92.0	170.8
68	0.0	0.0	0.0



#27

1,2-Dichloroethane

Concen: 0.136 ug/L

RT: 5.063 min Scan# 1251

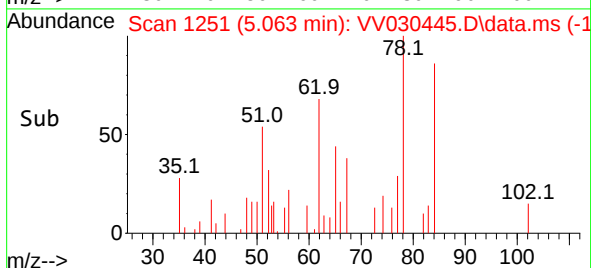
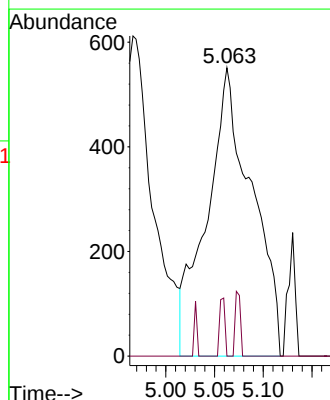
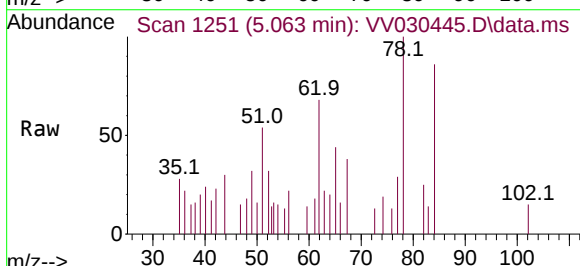
Delta R.T. 0.013 min

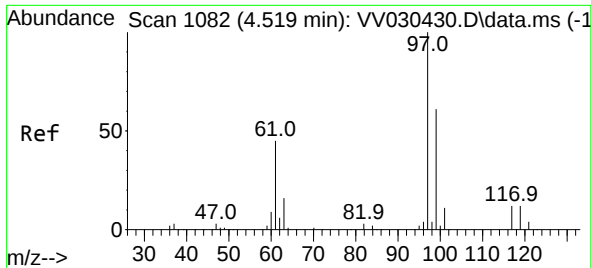
Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

Tgt Ion: 62 Resp: 1762

Ion	Ratio	Lower	Upper
62	100		
98	0.0	7.8	11.8#





#29

1,1,1-Trichloroethane

Concen: 2.395 ug/L

RT: 4.523 min Scan# 1083

Delta R.T. 0.003 min

Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

Instrument :

MSVOA_V

ClientSampleId :

BHDX2

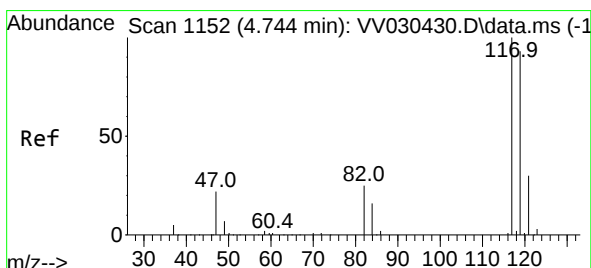
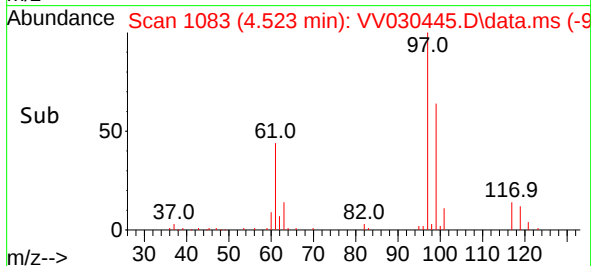
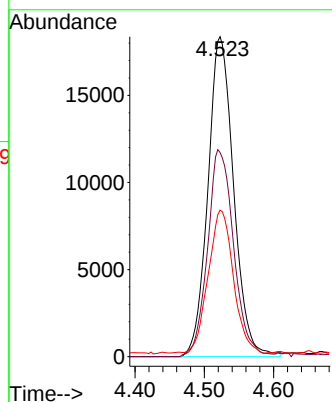
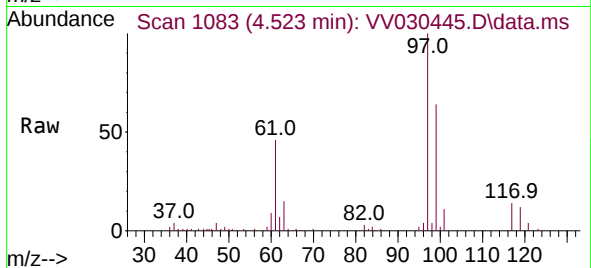
Tgt Ion: 97 Resp: 47408

Ion Ratio Lower Upper

97 100

99 65.6 50.9 76.3

61 43.7 35.9 53.9



#31

Carbon tetrachloride

Concen: 0.336 ug/L

RT: 4.526 min Scan# 1084

Delta R.T. -0.219 min

Lab File: VV030445.D

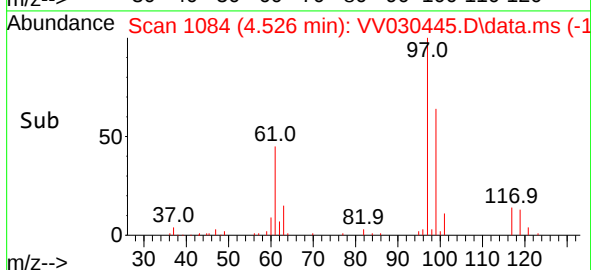
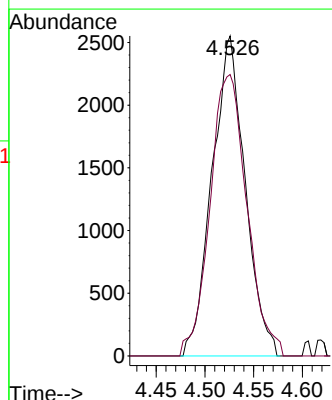
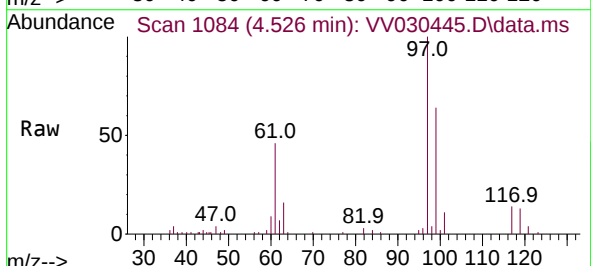
Acq: 07 Apr 2023 16:07

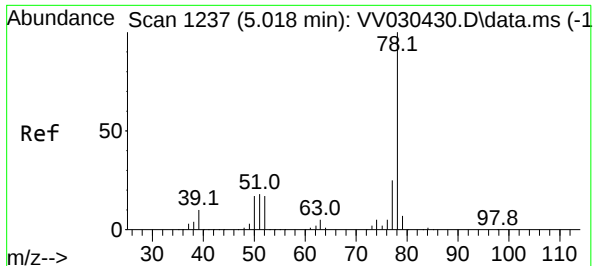
Tgt Ion: 117 Resp: 6037

Ion Ratio Lower Upper

117 100

119 97.7 76.2 114.4

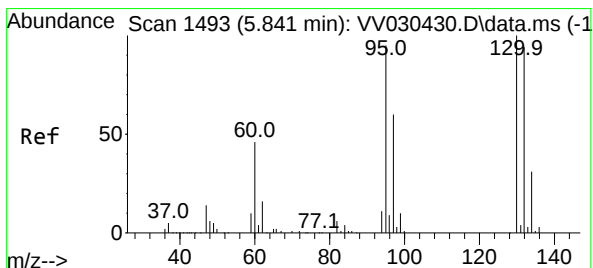
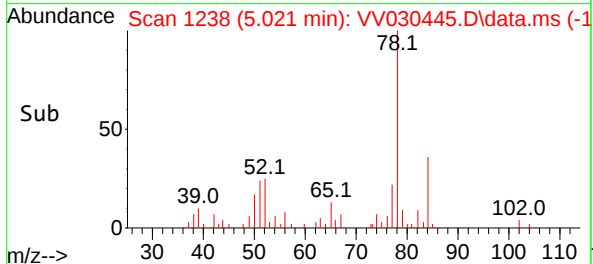
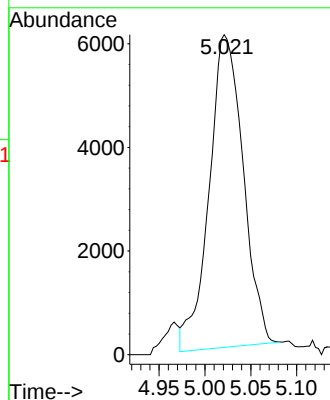
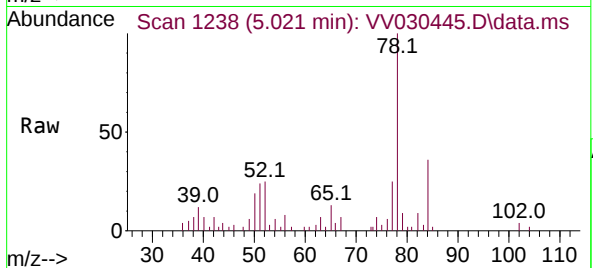




#33
Benzene
Concen: 0.355 ug/L
RT: 5.021 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

Instrument :
MSVOA_V
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BHDx2

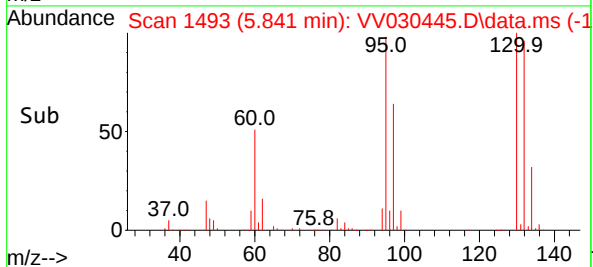
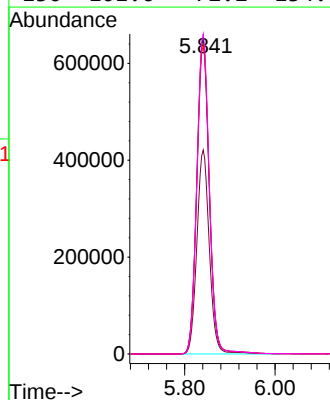
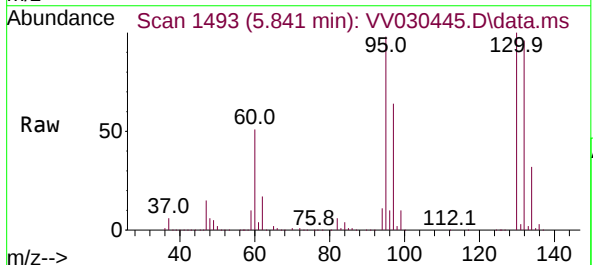
Tgt Ion: 78 Resp: 15548

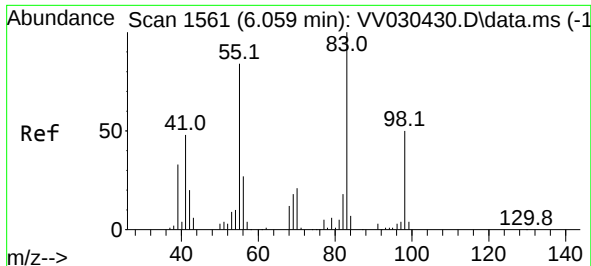


#34
Trichloroethene
Concen: 105.807 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

Tgt Ion: 95 Resp: 1248186

Ion	Ratio	Lower	Upper
95	100		
97	64.8	44.2	82.2
132	97.9	69.5	129.1
130	101.6	72.2	134.0

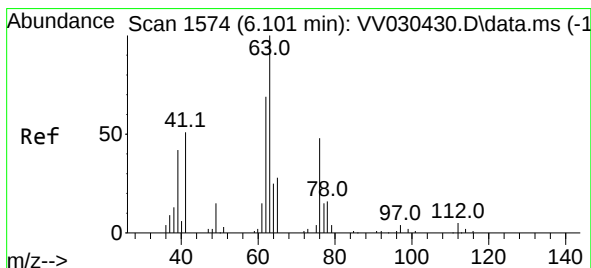
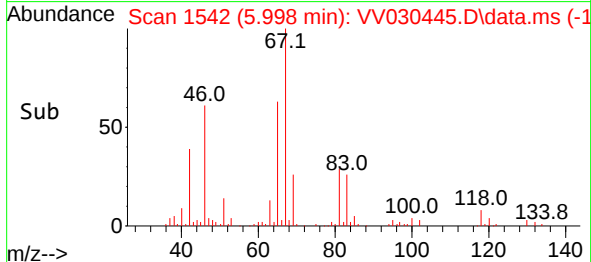
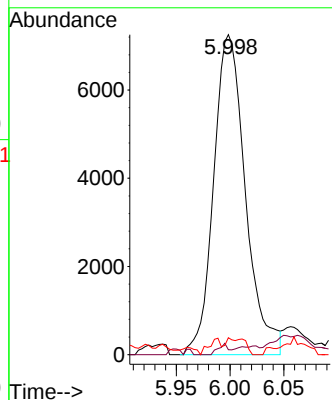
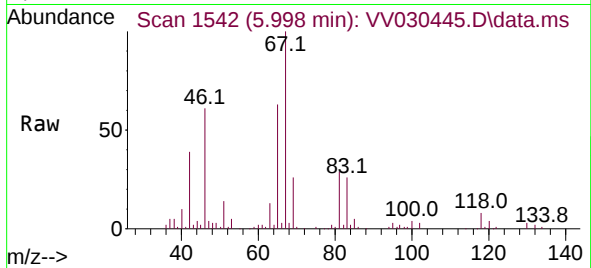




#35
Methylcyclohexane
Concen: 0.807 ug/L
RT: 5.998 min Scan# 1542
Delta R.T. -0.061 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

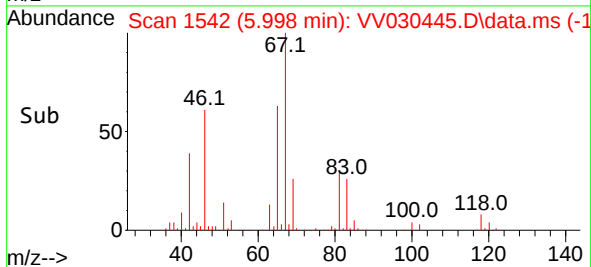
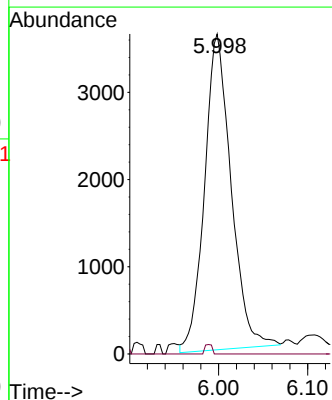
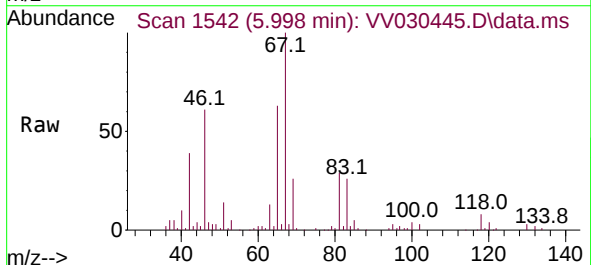
Instrument :
MSVOA_V
ClientSampleId :
BHDx2

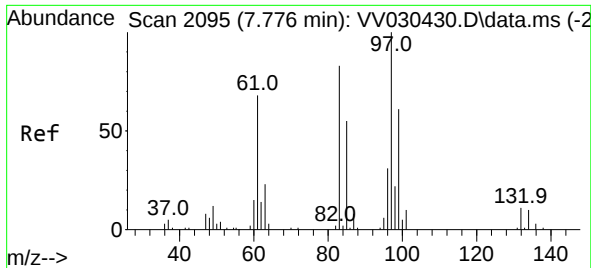
Tgt Ion: 83 Resp: 14935
Ion Ratio Lower Upper
83 100
55 1.1 66.6 100.0#
98 0.0 38.6 58.0#



#37
1,2-Dichloropropane
Concen: 0.668 ug/L
RT: 5.998 min Scan# 1542
Delta R.T. -0.103 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

Tgt Ion: 63 Resp: 7505
Ion Ratio Lower Upper
63 100
112 0.8 3.9 5.9#



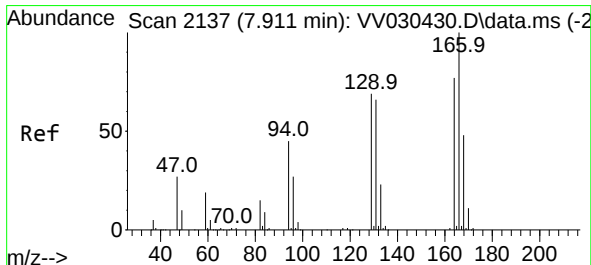
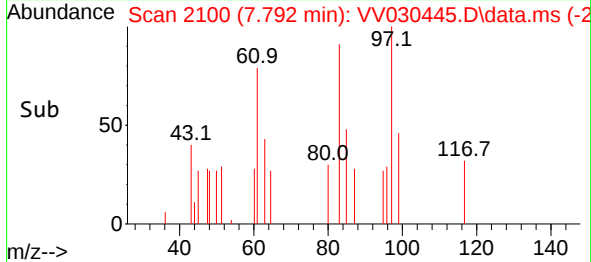
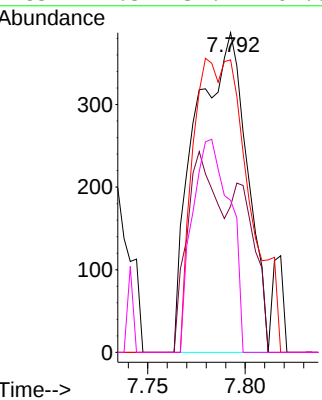
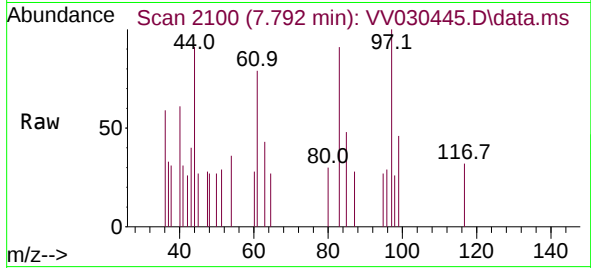


#45
1,1,2-Trichloroethane
Concen: 0.091 ug/L
RT: 7.792 min Scan# 2100
Delta R.T. 0.016 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

Instrument :
MSVOA_V
ClientSampleId :
BHDx2

Tgt Ion: 97 Resp: 717

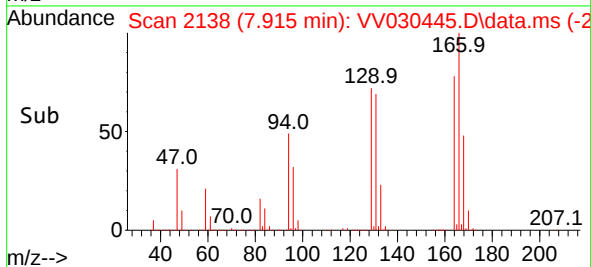
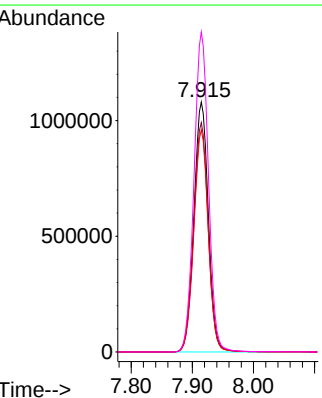
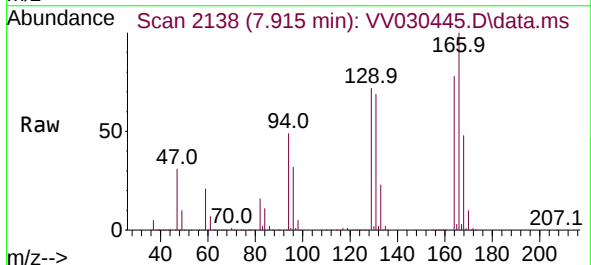
Ion	Ratio	Lower	Upper
97	100		
99	45.7	44.0	81.8
83	91.5	58.8	109.2
85	47.5	37.2	69.0

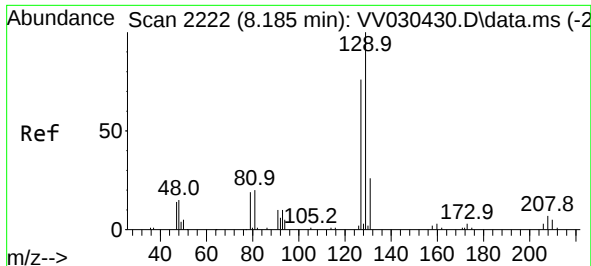


#47
Tetrachloroethene
Concen: 171.190 ug/L
RT: 7.915 min Scan# 2138
Delta R.T. 0.003 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

Tgt Ion: 164 Resp: 1782304

Ion	Ratio	Lower	Upper
164	100		
129	91.8	60.8	112.8
131	88.9	61.7	114.7
166	128.1	85.6	159.0





#49

Dibromochloromethane

Concen: 166.780 ug/L

RT: 7.915 min Scan# 2138

Delta R.T. -0.270 min

Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

Instrument :

MSVOA_V

ClientSampleId :

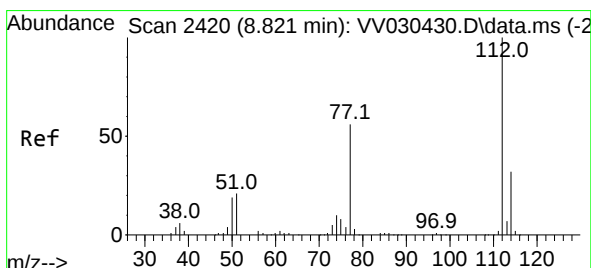
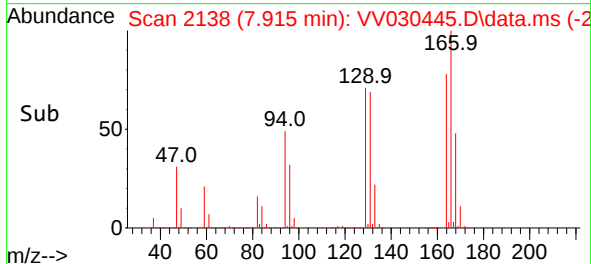
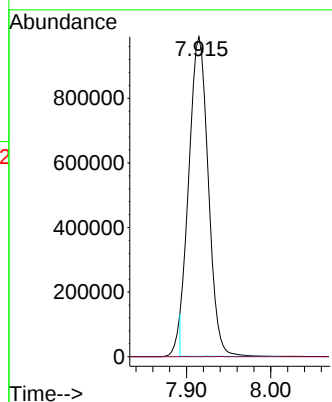
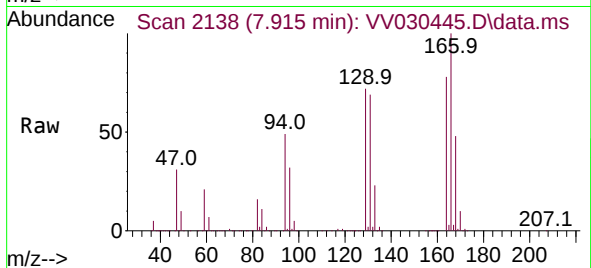
BHDX2

Tgt Ion:129 Resp: 1569703

Ion Ratio Lower Upper

129 100

127 0.0 52.7 97.9#



#51

Chlorobenzene

Concen: 0.216 ug/L

RT: 8.828 min Scan# 2422

Delta R.T. 0.006 min

Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

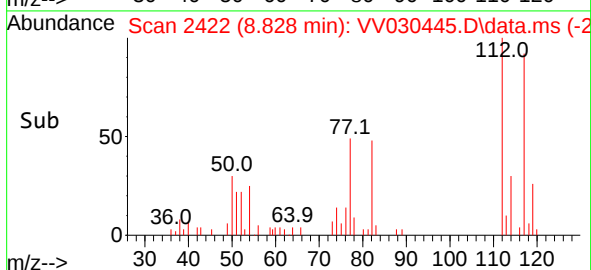
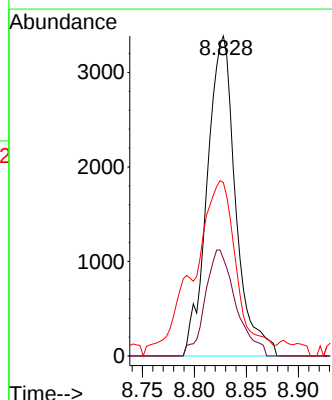
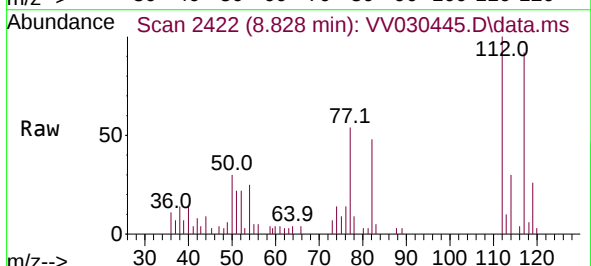
Tgt Ion:112 Resp: 6450

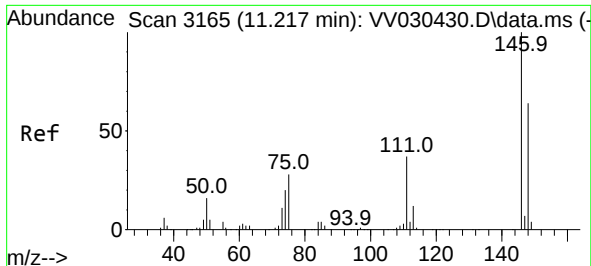
Ion Ratio Lower Upper

112 100

114 30.4 22.4 41.6

77 54.1 45.9 68.9

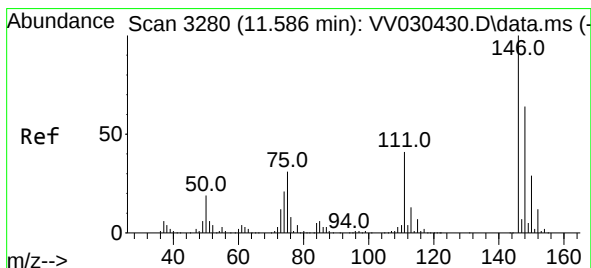
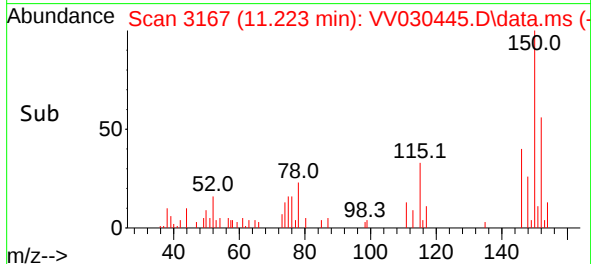
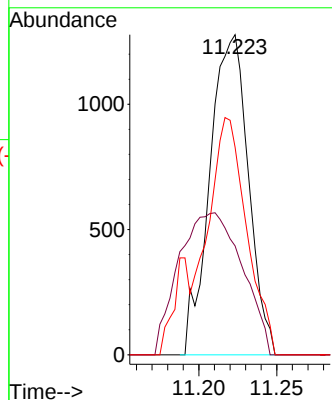
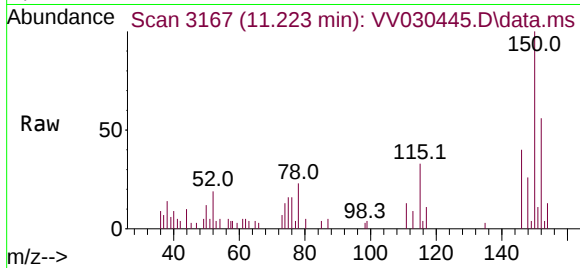




#65
1,4-Dichlorobenzene
Concen: 0.099 ug/L
RT: 11.223 min Scan# 3165
Delta R.T. 0.007 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

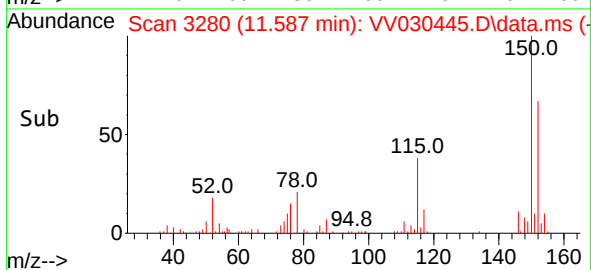
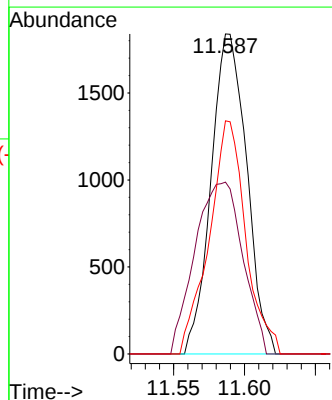
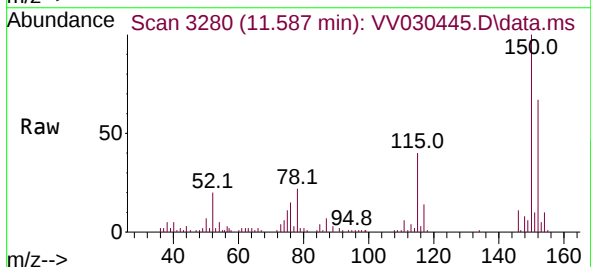
Instrument :
MSVOA_V
ClientSampleId :
BHDx2

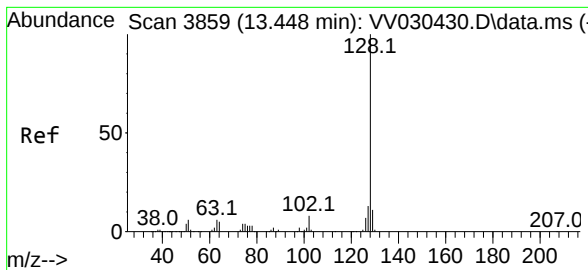
Tgt Ion:146 Resp: 2199
Ion Ratio Lower Upper
146 100
111 34.0 26.0 48.4
148 64.9 45.2 84.0



#67
1,2-Dichlorobenzene
Concen: 0.161 ug/L
RT: 11.587 min Scan# 3280
Delta R.T. 0.000 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

Tgt Ion:146 Resp: 3211
Ion Ratio Lower Upper
146 100
111 53.7 33.1 49.7#
148 72.9 52.2 78.2





#71
Naphthalene
Concen: 0.423 ug/L
RT: 13.451 min Scan# 3860
Delta R.T. 0.003 min
Lab File: VV030445.D
Acq: 07 Apr 2023 16:07

Instrument :
MSVOA_V
ClientSampleId :
BHDx2

Tgt Ion:	128	Resp:	7928
Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.9	13.3
127	13.2	10.8	16.2

