

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041423\
 Data File : VW030572.D
 Acq On : 14 Apr 2023 14:47
 Operator : SY/MD
 Sample : 02275-05
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHDZ1

Quant Time: Apr 15 02:01:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Apr 15 01:54:33 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	112265	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.796	117	108576	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	52287	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	40216	5.409	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	108.200%
7) Chloroethane-d5	1.535	69	33785	4.682	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.600%
11) 1,1-Dichloroethene-d2	2.066	63	85094	4.823	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.400%
20) 2-Butanone-d5	3.822	46	91529	47.626	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.260%
24) Chloroform-d	4.262	84	78437	4.359	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.200%
26) 1,2-Dichloroethane-d4	4.953	65	42343	4.987	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.800%
32) Benzene-d6	4.973	84	135755	4.437	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.800%
36) 1,2-Dichloropropane-d6	5.998	67	43628	4.555	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.000%
41) Toluene-d8	7.252	98	113846	4.052	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.000%
43) trans-1,3-Dichloroprop...	7.564	79	15343	4.254	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.000%
46) 2-Hexanone-d5	8.037	63	65545	45.228	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.460%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	32802	4.345	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.800%
66) 1,2-Dichlorobenzene-d4	11.570	152	43016	4.603	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	2241	0.124	ug/L	100
6) Bromomethane	1.497	94	399	0.107	ug/L	85
10) 1,1,2-Trichloro-1,2,2-...	2.072	101	4684	0.443	ug/L	94
12) 1,1-Dichloroethene	2.072	96	40955	4.366	ug/L	91
17) Methyl tert-butyl Ether	2.715	73	15208	0.765	ug/L #	92
19) 1,1-Dichloroethane	3.121	63	38567	2.013	ug/L	97
22) cis-1,2-Dichloroethene	3.828	96	103649	10.451	ug/L	98
25) Chloroform	4.288	83	12830	0.663	ug/L	100
29) 1,1,1-Trichloroethane	4.526	97	19773	1.133	ug/L	98
31) Carbon tetrachloride	4.526	117	2591	0.164	ug/L	96
34) Trichloroethene	5.844	95	170590	16.402	ug/L	98
35) Methylcyclohexane	6.002	83	11259	0.690	ug/L #	16
37) 1,2-Dichloropropane	6.002	63	5904	0.596	ug/L #	86
47) Tetrachloroethene	7.915	164	113436	12.358	ug/L	97
49) Dibromochloromethane	7.915	129	98637	11.887	ug/L #	12
61) 1,2,3-Trichloropropane	10.217	75	714	0.153	ug/L	94
64) 1,3-Dichlorobenzene	11.130	146	3264	0.170	ug/L	89
65) 1,4-Dichlorobenzene	11.217	146	1548	0.080	ug/L #	92
67) 1,2-Dichlorobenzene	11.590	146	1270	0.073	ug/L #	84

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QLast Update : Sat Apr 15 01:54:33 2023
Response via : Initial Calibration

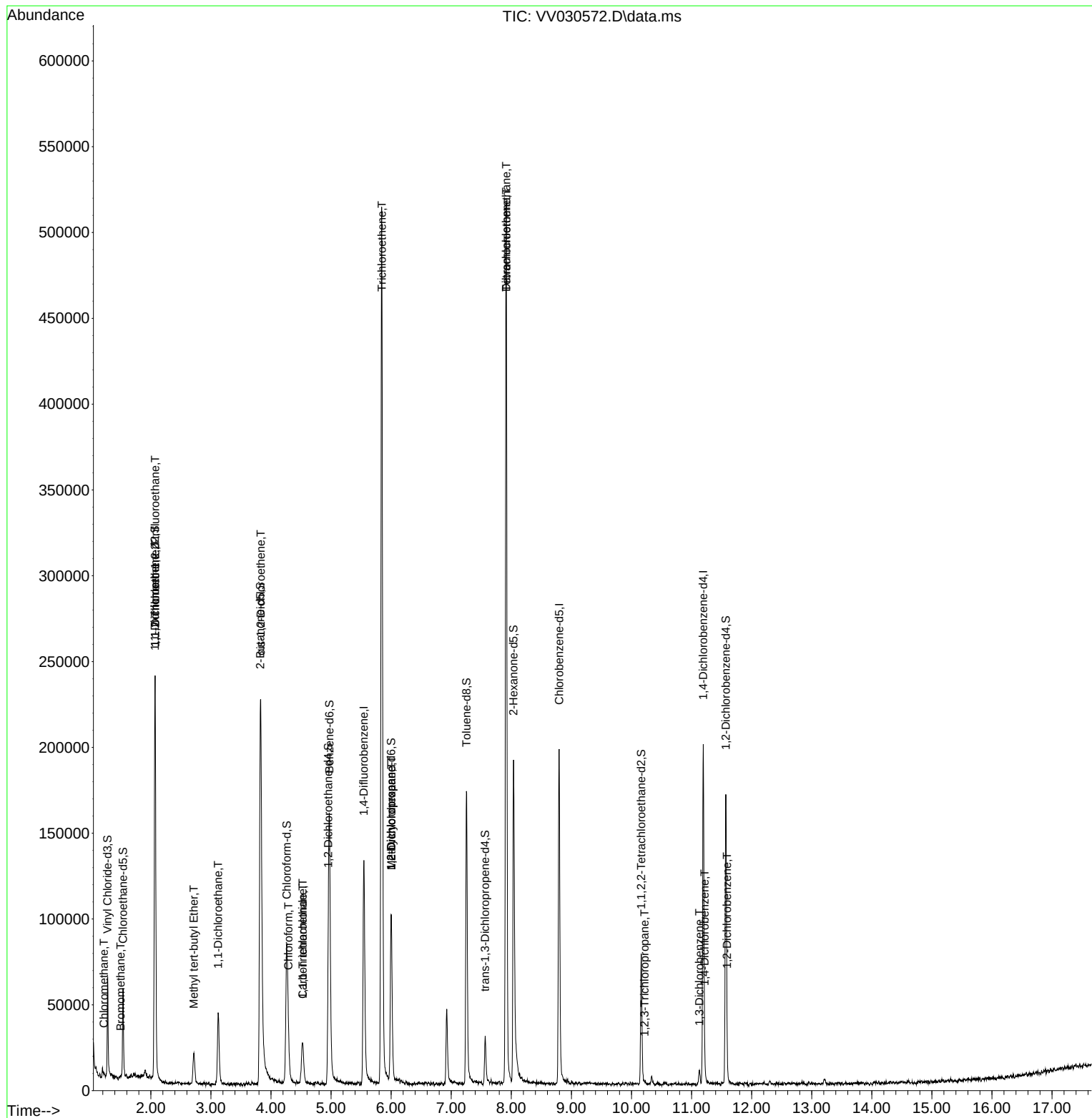
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

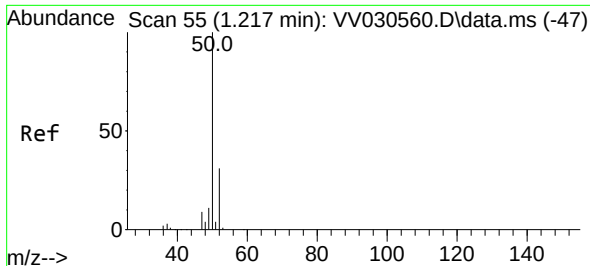
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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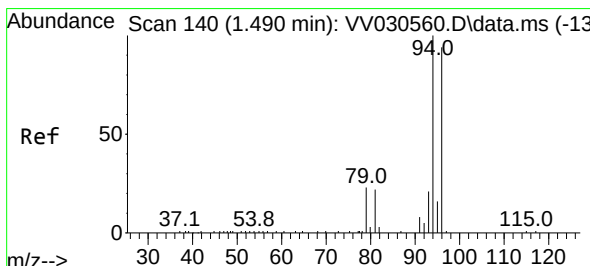
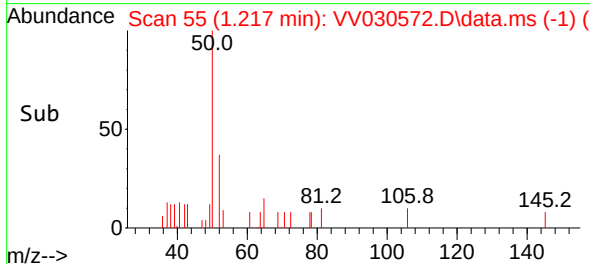
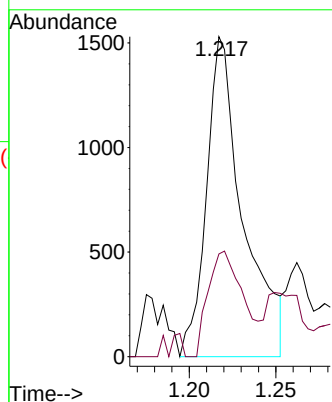
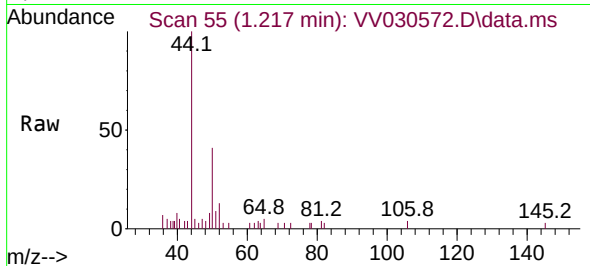




#3
Chloromethane
Concen: 0.124 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.000 min
Lab File: VV030572.D
Acq: 14 Apr 2023 14:47

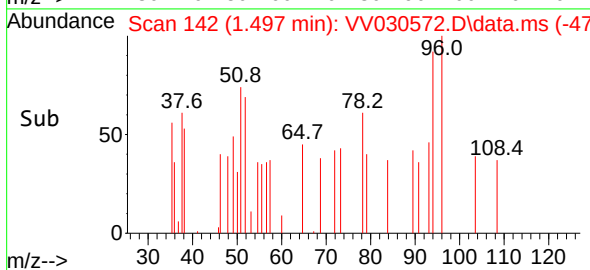
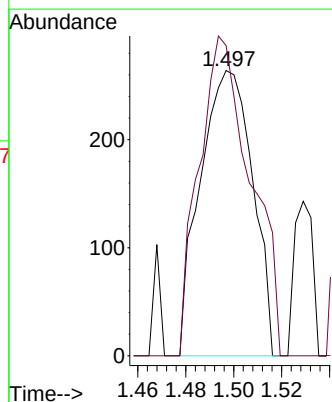
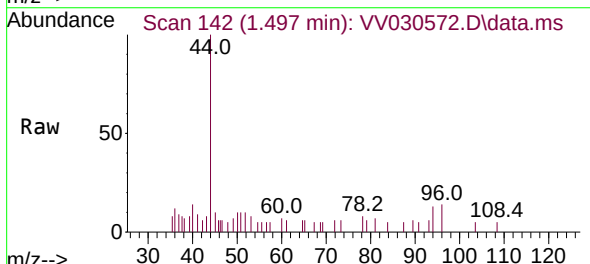
Instrument :
MSVOA_V
ClientSampleId :
BHDZ1

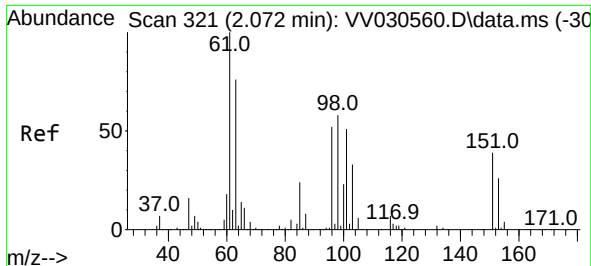
Tgt Ion: 50 Resp: 2241
Ion Ratio Lower Upper
50 100
52 32.1 22.3 41.5



#6
Bromomethane
Concen: 0.107 ug/L
RT: 1.497 min Scan# 142
Delta R.T. 0.006 min
Lab File: VV030572.D
Acq: 14 Apr 2023 14:47

Tgt Ion: 94 Resp: 399
Ion Ratio Lower Upper
94 100
96 108.7 66.1 122.7





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.443 ug/L

RT: 2.072 min Scan# 321

Delta R.T. 0.000 min

Lab File: VV030572.D

Acq: 14 Apr 2023 14:47

Instrument :

MSVOA_V

ClientSampleId :

BHDZ1

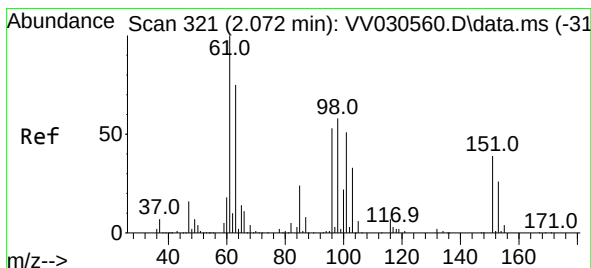
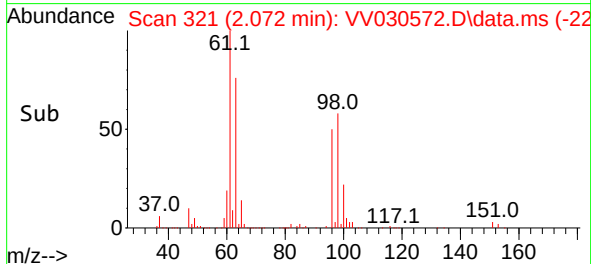
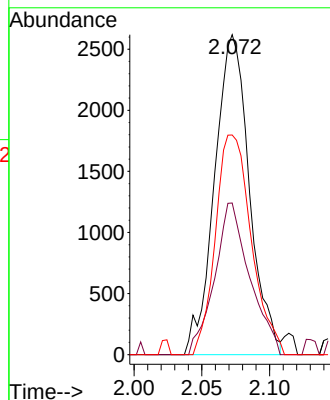
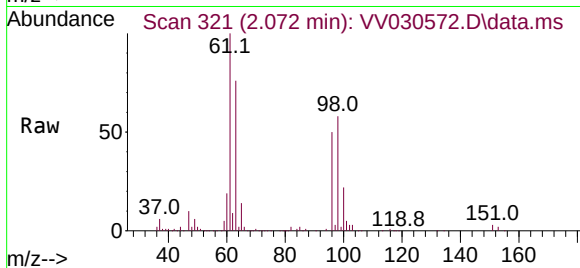
Tgt Ion:101 Resp: 4684

Ion Ratio Lower Upper

101 100

85 47.8 38.1 57.1

151 70.6 62.7 94.1



#12

1,1-Dichloroethene

Concen: 4.366 ug/L

RT: 2.072 min Scan# 321

Delta R.T. 0.000 min

Lab File: VV030572.D

Acq: 14 Apr 2023 14:47

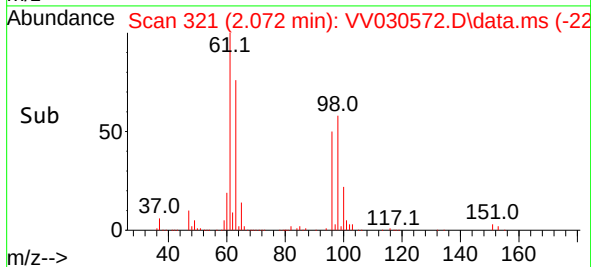
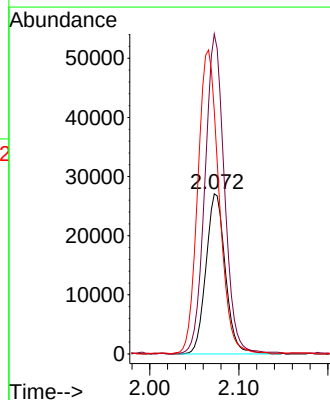
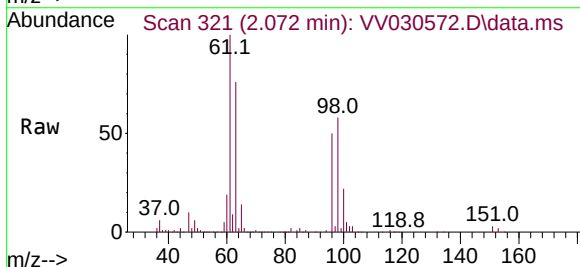
Tgt Ion: 96 Resp: 40955

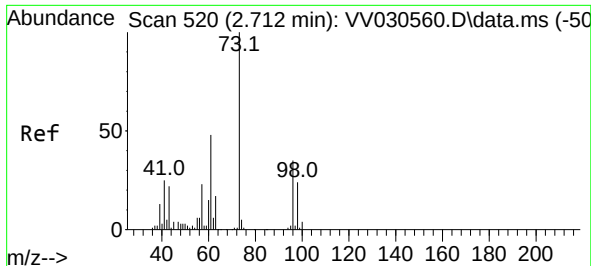
Ion Ratio Lower Upper

96 100

61 199.8 136.3 253.1

63 151.8 92.1 171.1





#17

Methyl tert-butyl Ether

Concen: 0.765 ug/L

RT: 2.715 min Scan# 51

Delta R.T. 0.003 min

Lab File: VV030572.D

Acq: 14 Apr 2023 14:47

Instrument :

MSVOA_V

ClientSampleId :

BHDZ1

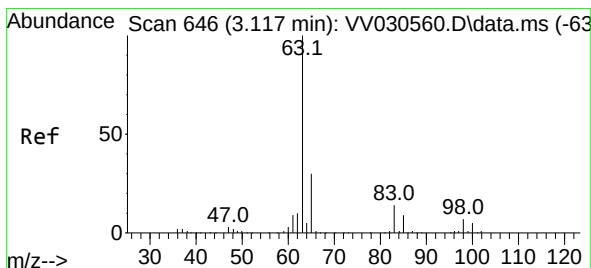
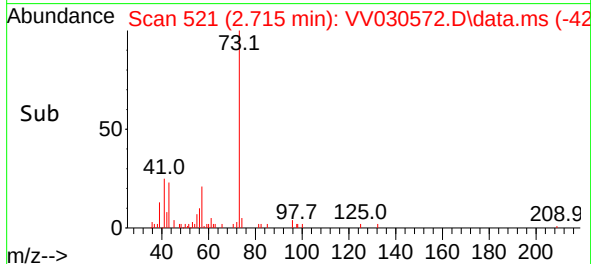
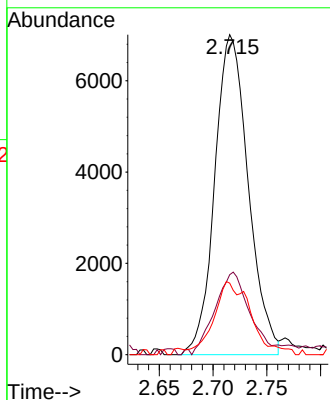
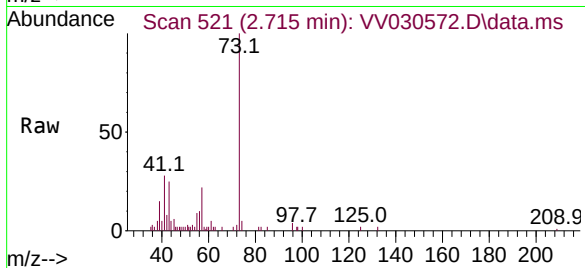
Tgt Ion: 73 Resp: 15208

Ion Ratio Lower Upper

73 100

43 26.7 17.4 26.2#

57 25.4 18.3 27.5



#19

1,1-Dichloroethane

Concen: 2.013 ug/L

RT: 3.121 min Scan# 647

Delta R.T. 0.003 min

Lab File: VV030572.D

Acq: 14 Apr 2023 14:47

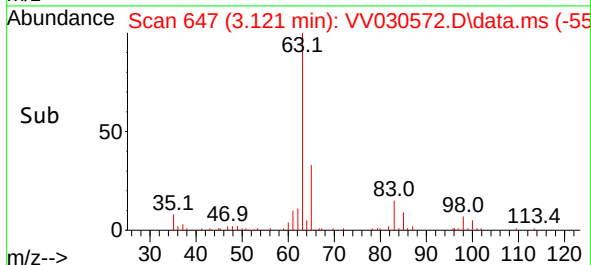
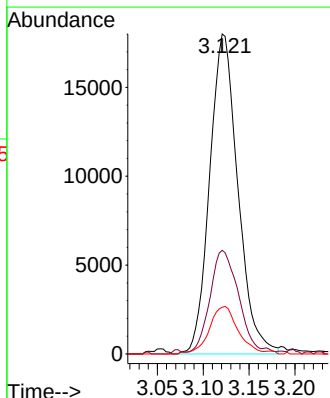
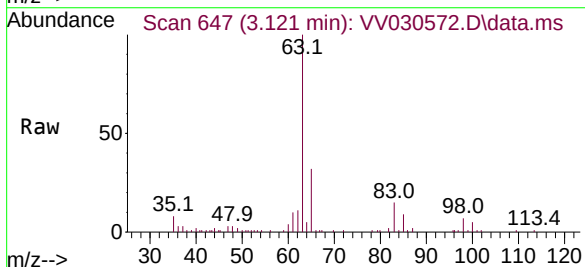
Tgt Ion: 63 Resp: 38567

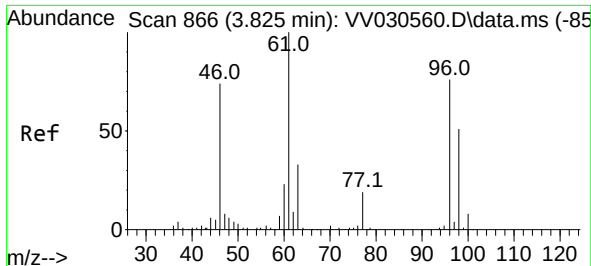
Ion Ratio Lower Upper

63 100

65 32.4 21.7 40.3

83 14.6 9.1 16.9



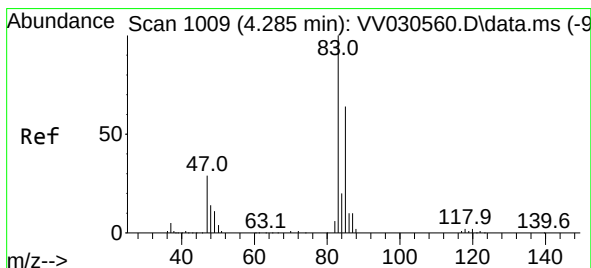
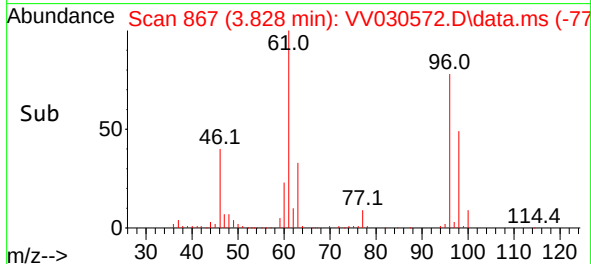
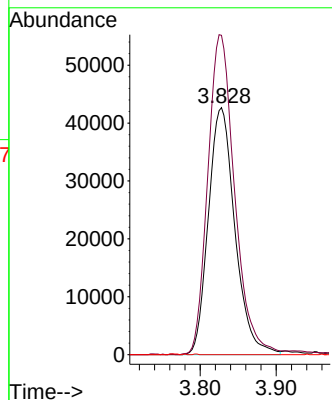
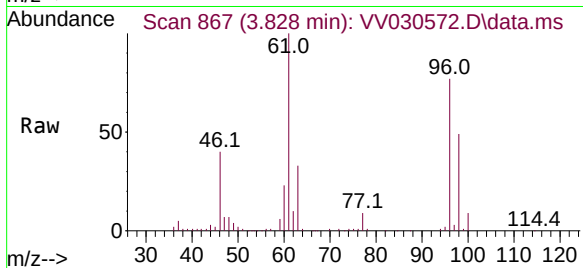


#22
 cis-1,2-Dichloroethene
 Concen: 10.451 ug/L
 RT: 3.828 min Scan# 866
 Delta R.T. 0.003 min
 Lab File: VV030572.D
 Acq: 14 Apr 2023 14:47

Instrument :
 MSVOA_V
 ClientSampleId :
 BHDZ1

Tgt Ion: 96 Resp: 103649

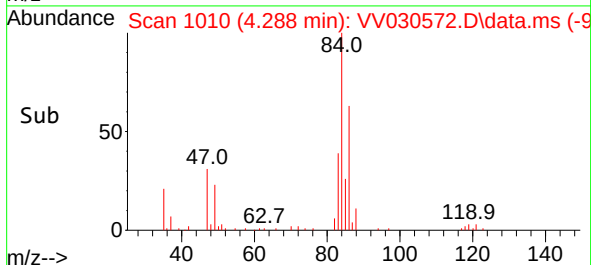
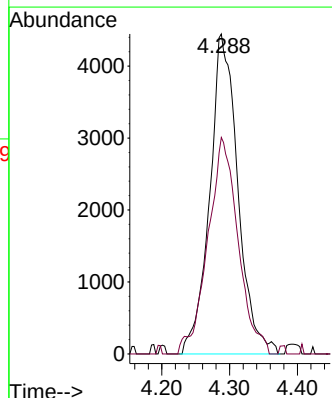
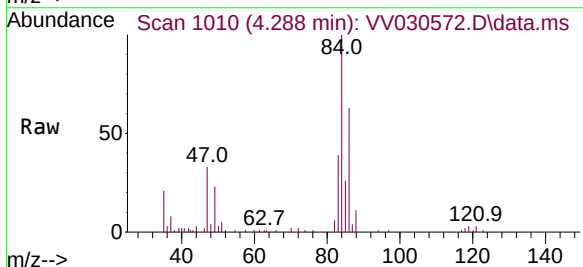
Ion	Ratio	Lower	Upper
96	100		
61	129.2	92.0	170.8
68	0.0	0.0	0.0

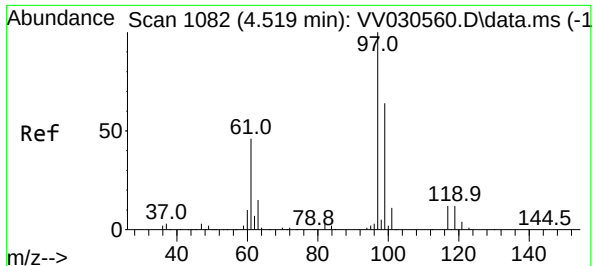


#25
 Chloroform
 Concen: 0.663 ug/L
 RT: 4.288 min Scan# 1010
 Delta R.T. 0.003 min
 Lab File: VV030572.D
 Acq: 14 Apr 2023 14:47

Tgt Ion: 83 Resp: 12830

Ion	Ratio	Lower	Upper
83	100		
85	67.7	47.6	88.4





#29

1,1,1-Trichloroethane

Concen: 1.133 ug/L

RT: 4.526 min Scan# 1084

Delta R.T. 0.006 min

Lab File: VV030572.D

Acq: 14 Apr 2023 14:47

Instrument :

MSVOA_V

ClientSampleId :

BHDZ1

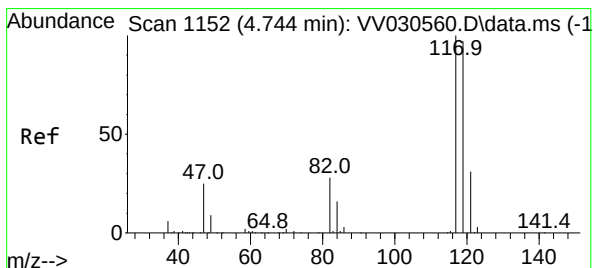
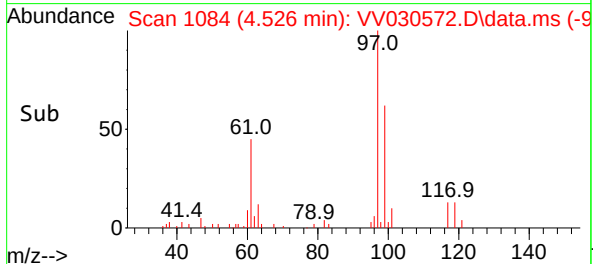
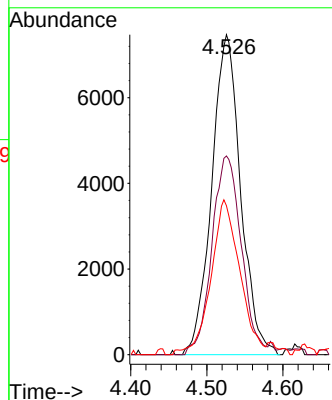
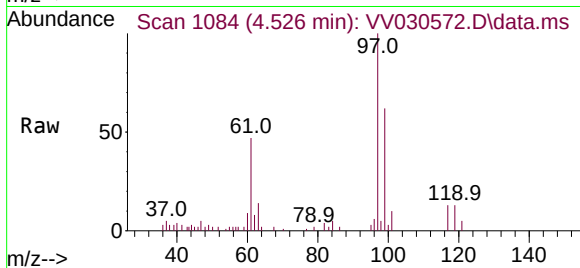
Tgt Ion: 97 Resp: 19773

Ion Ratio Lower Upper

97 100

99 63.0 50.9 76.3

61 48.1 35.9 53.9



#31

Carbon tetrachloride

Concen: 0.164 ug/L

RT: 4.526 min Scan# 1084

Delta R.T. -0.219 min

Lab File: VV030572.D

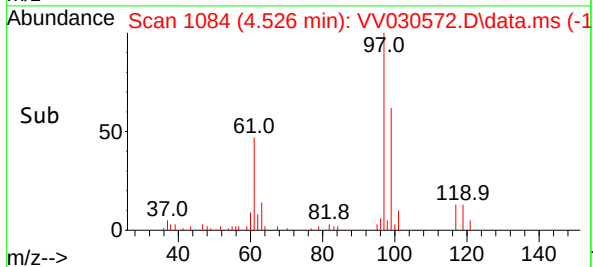
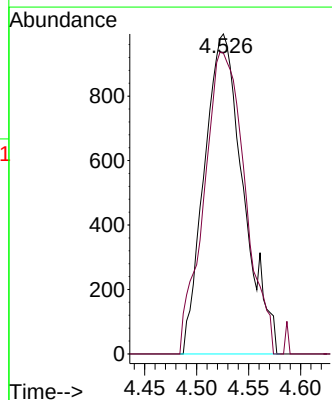
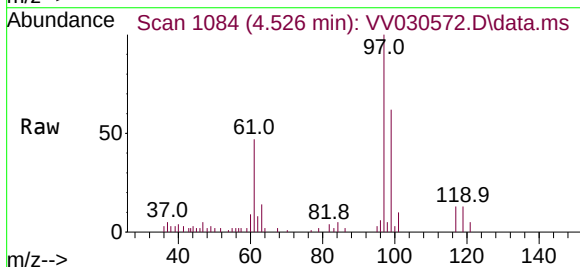
Acq: 14 Apr 2023 14:47

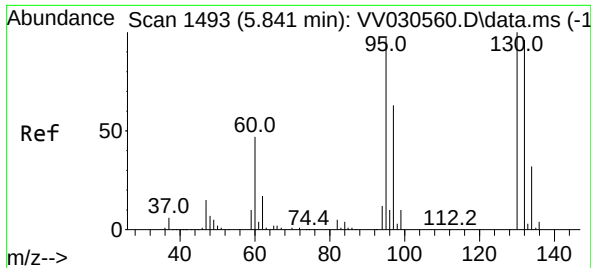
Tgt Ion: 117 Resp: 2591

Ion Ratio Lower Upper

117 100

119 99.3 76.2 114.4



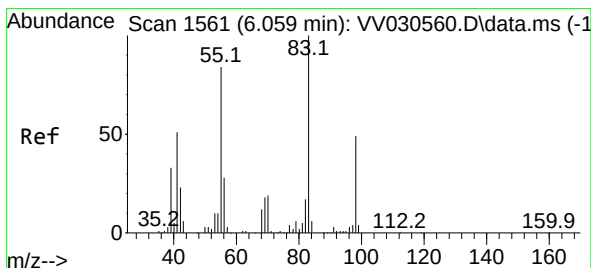
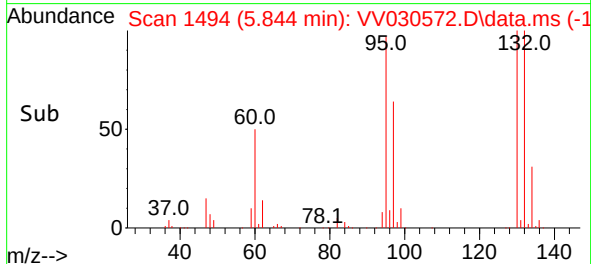
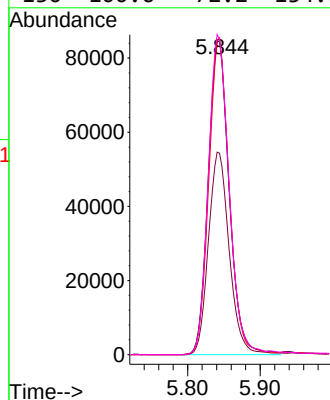
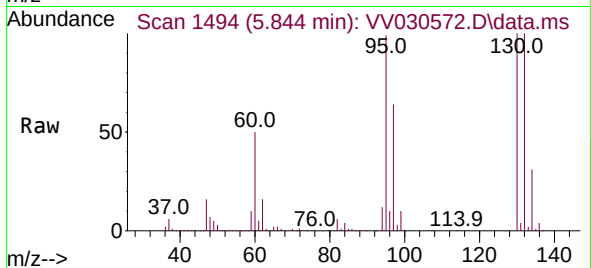


#34
Trichloroethene
Concen: 16.402 ug/L
RT: 5.844 min Scan# 1493
Delta R.T. 0.003 min
Lab File: VV030572.D
Acq: 14 Apr 2023 14:47

Instrument :
MSVOA_V
ClientSampleId :
BHDZ1

Tgt Ion: 95 Resp: 170590

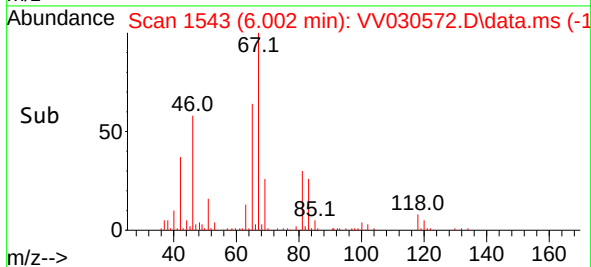
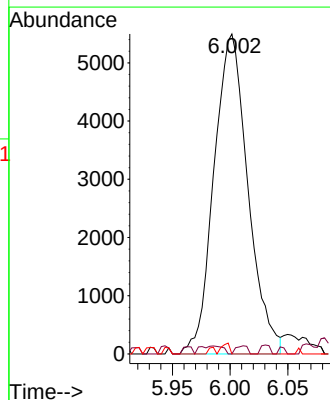
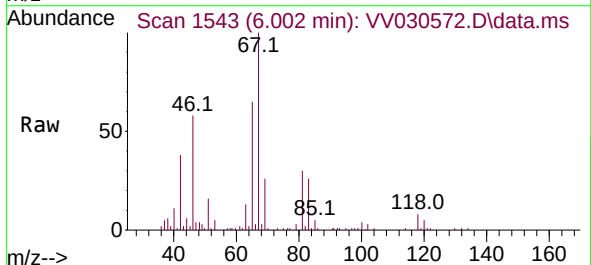
Ion	Ratio	Lower	Upper
95	100		
97	64.2	44.2	82.2
132	101.1	69.5	129.1
130	100.6	72.2	134.0

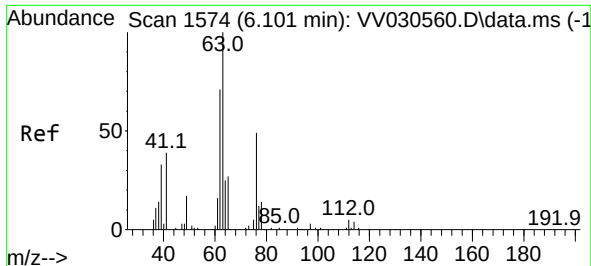


#35
Methylcyclohexane
Concen: 0.690 ug/L
RT: 6.002 min Scan# 1543
Delta R.T. -0.058 min
Lab File: VV030572.D
Acq: 14 Apr 2023 14:47

Tgt Ion: 83 Resp: 11259

Ion	Ratio	Lower	Upper
83	100		
55	0.9	66.6	100.0#
98	0.0	38.6	58.0#





#37

1,2-Dichloropropane

Concen: 0.596 ug/L

RT: 6.002 min Scan# 11

Delta R.T. -0.100 min

Lab File: VV030572.D

Acq: 14 Apr 2023 14:47

Instrument :

MSVOA_V

ClientSampleId :

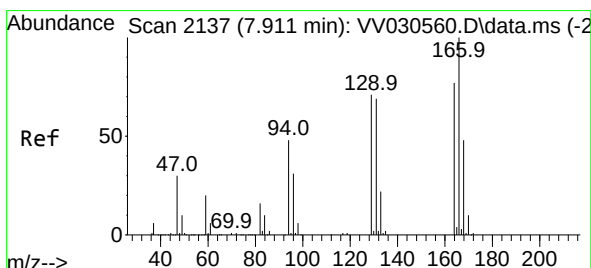
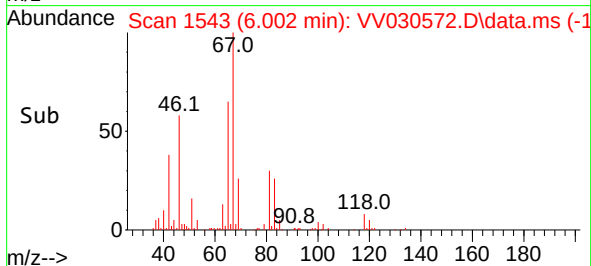
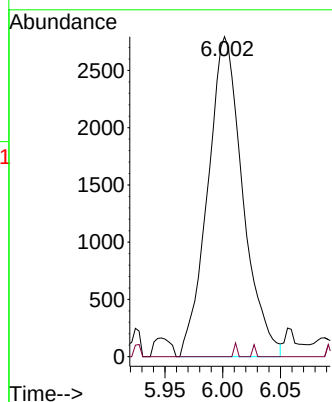
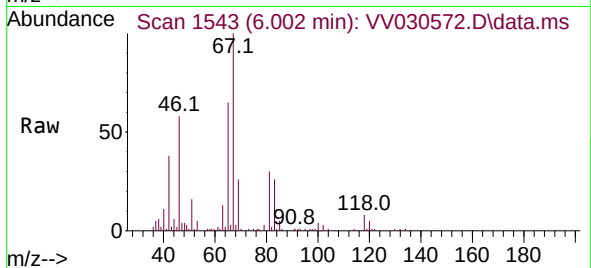
BHDZ1

Tgt Ion: 63 Resp: 5904

Ion Ratio Lower Upper

63 100

112 0.4 3.9 5.9#



#47

Tetrachloroethene

Concen: 12.358 ug/L

RT: 7.915 min Scan# 2138

Delta R.T. 0.003 min

Lab File: VV030572.D

Acq: 14 Apr 2023 14:47

Tgt Ion: 164 Resp: 113436

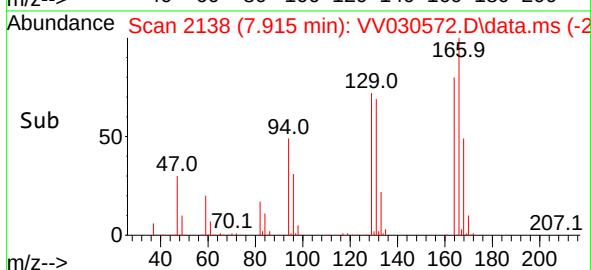
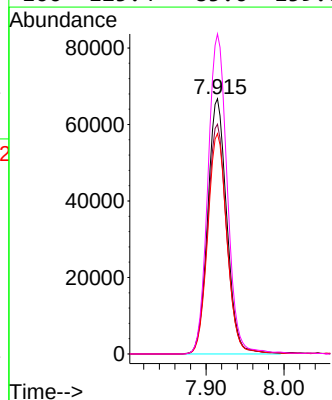
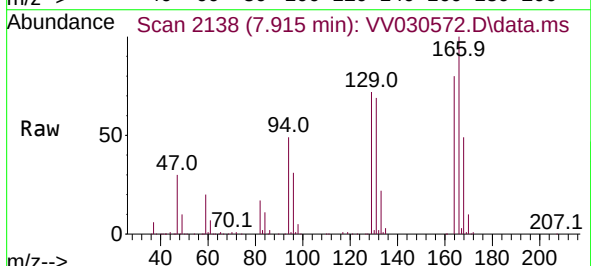
Ion Ratio Lower Upper

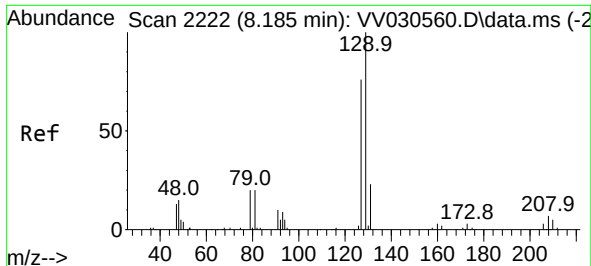
164 100

129 90.1 60.8 112.8

131 86.4 61.7 114.7

166 125.4 85.6 159.0





#49

Dibromochloromethane

Concen: 11.887 ug/L

RT: 7.915 min Scan# 2138

Delta R.T. -0.270 min

Lab File: VV030572.D

Acq: 14 Apr 2023 14:47

Instrument :

MSVOA_V

ClientSampleId :

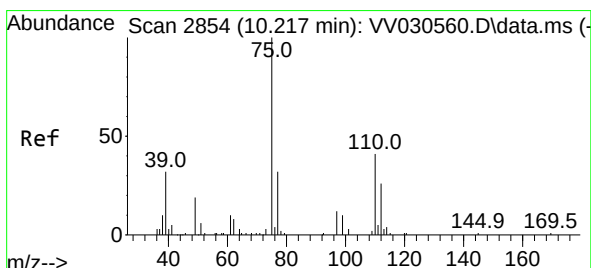
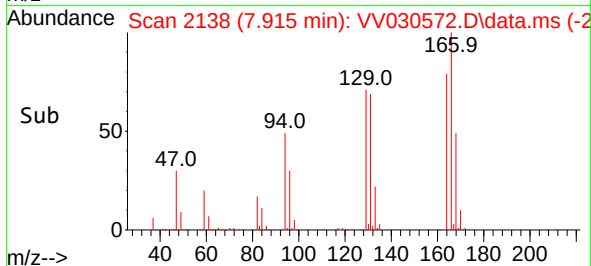
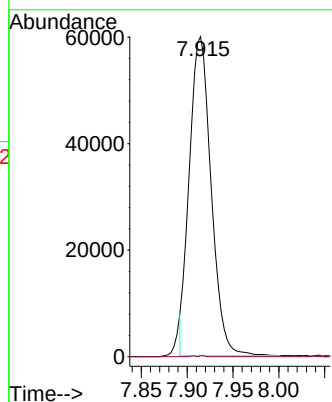
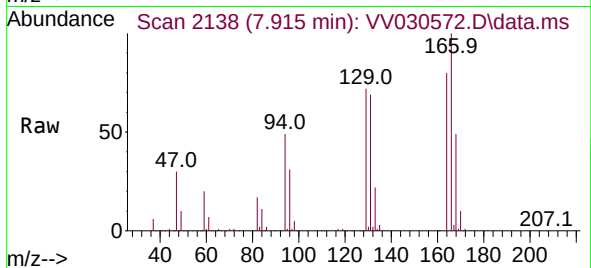
BHDZ1

Tgt Ion:129 Resp: 98637

Ion Ratio Lower Upper

129 100

127 0.3 52.7 97.9#



#61

1,2,3-Trichloropropane

Concen: 0.153 ug/L

RT: 10.217 min Scan# 2854

Delta R.T. 0.000 min

Lab File: VV030572.D

Acq: 14 Apr 2023 14:47

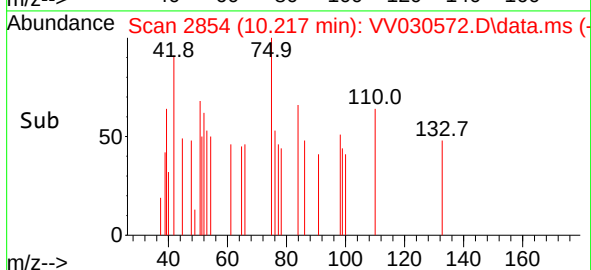
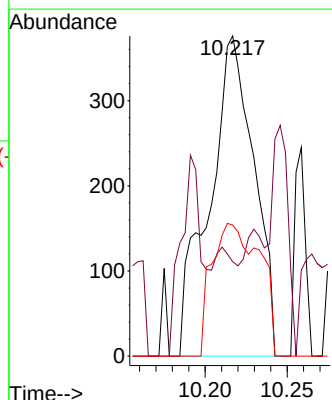
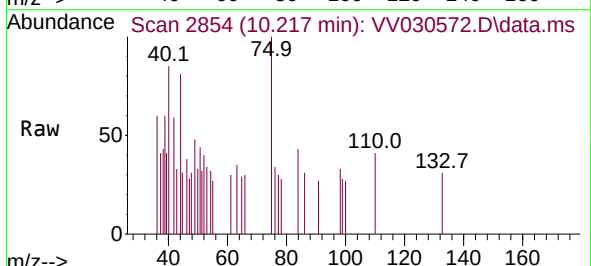
Tgt Ion: 75 Resp: 714

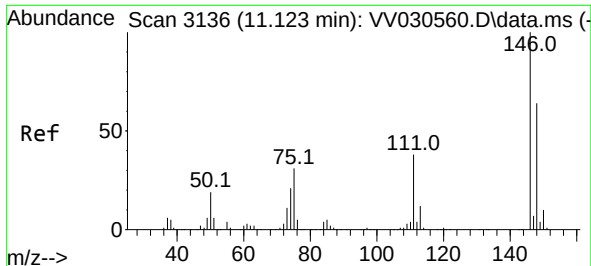
Ion Ratio Lower Upper

75 100

77 31.2 26.0 39.0

110 44.5 31.6 47.4

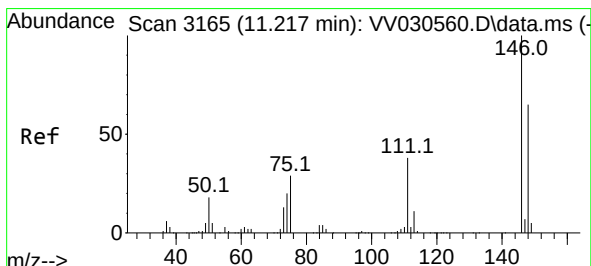
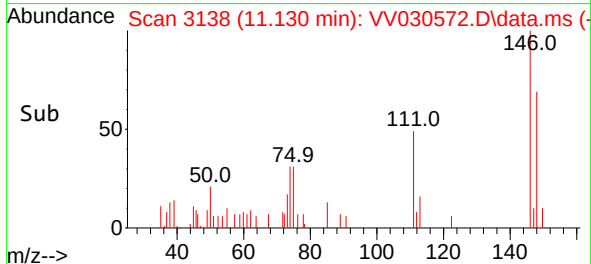
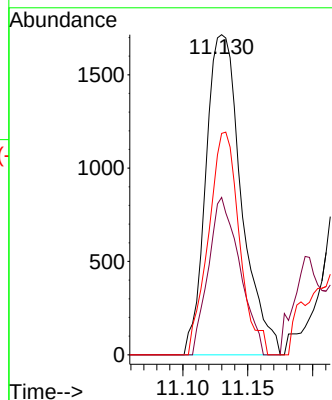
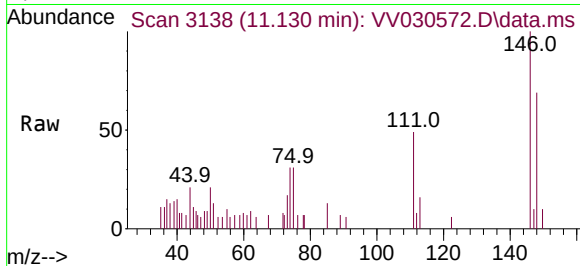




#64
1,3-Dichlorobenzene
Concen: 0.170 ug/L
RT: 11.130 min Scan# 3136
Delta R.T. 0.006 min
Lab File: VV030572.D
Acq: 14 Apr 2023 14:47

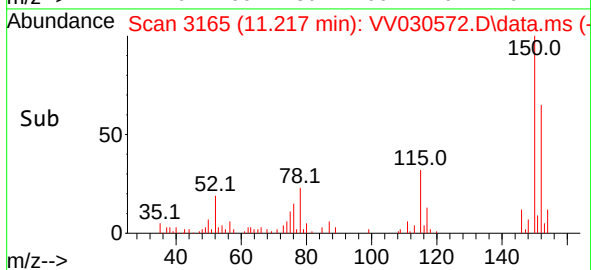
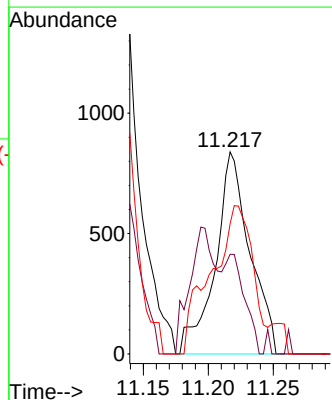
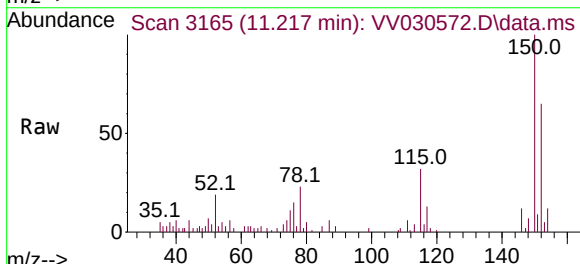
Instrument :
MSVOA_V
ClientSampleId :
BHDZ1

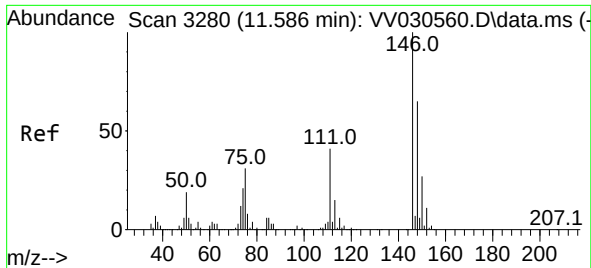
Tgt Ion:146 Resp: 3264
Ion Ratio Lower Upper
146 100
111 49.2 27.0 50.2
148 69.2 44.2 82.2



#65
1,4-Dichlorobenzene
Concen: 0.080 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. 0.000 min
Lab File: VV030572.D
Acq: 14 Apr 2023 14:47

Tgt Ion:146 Resp: 1548
Ion Ratio Lower Upper
146 100
111 49.3 26.0 48.4#
148 64.5 45.2 84.0





#67

1,2-Dichlorobenzene

Concen: 0.073 ug/L

RT: 11.590 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV030572.D

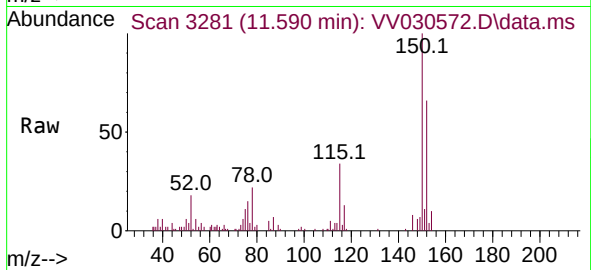
Acq: 14 Apr 2023 14:47

Instrument :

MSVOA_V

ClientSampleId :

BHDZ1



Tgt Ion:	146	Resp:	1270
Ion	Ratio	Lower	Upper
146	100		
111	57.6	33.1	49.7#
148	72.5	52.2	78.2

