

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041023\
 Data File : VW030481.D
 Acq On : 10 Apr 2023 20:38
 Operator : SY/MD
 Sample : 02250-14
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHDY4

Quant Time: Apr 11 06:33:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Apr 11 06:24:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	115403	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	112930	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	54917	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	25929	3.392	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	67.800%
7) Chloroethane-d5	1.539	69	30793	4.152	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.000%
11) 1,1-Dichloroethene-d2	2.066	63	61594	3.396	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.000%
20) 2-Butanone-d5	3.815	46	95620	48.402	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.800%
24) Chloroform-d	4.262	84	82642	4.467	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.400%
26) 1,2-Dichloroethane-d4	4.957	65	41440	4.748	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.000%
32) Benzene-d6	4.973	84	145800	4.582	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.600%
36) 1,2-Dichloropropane-d6	5.998	67	48463	4.864	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.200%
41) Toluene-d8	7.252	98	120716	4.131	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.600%
43) trans-1,3-Dichloroprop...	7.564	79	14681	3.914	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.200%
46) 2-Hexanone-d5	8.034	63	73228	48.582	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.160%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	34096	4.342	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.800%
66) 1,2-Dichlorobenzene-d4	11.571	152	49554	5.049	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.220	50	1668	0.090	ug/L	95
6) Bromomethane	1.494	94	479	0.124	ug/L	97
9) Trichlorofluoromethane	1.719	101	20869	1.061	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.073	101	2843	0.262	ug/L	90
12) 1,1-Dichloroethene	2.076	96	22641	2.348	ug/L	83
17) Methyl tert-butyl Ether	2.712	73	26030	1.275	ug/L #	85
19) 1,1-Dichloroethane	3.124	63	31410	1.595	ug/L	99
22) cis-1,2-Dichloroethene	3.825	96	252034	24.722	ug/L	98
25) Chloroform	4.288	83	9942	0.500	ug/L	98
27) 1,2-Dichloroethane	5.060	62	11839	0.984	ug/L	97
29) 1,1,1-Trichloroethane	4.526	97	12446	0.686	ug/L	95
33) Benzene	5.021	78	121937	3.040	ug/L	100
34) Trichloroethene	5.841	95	550741	50.911	ug/L	99
35) Methylcyclohexane	5.998	83	12716	0.749	ug/L #	16
37) 1,2-Dichloropropane	5.998	63	6304	0.612	ug/L #	86
45) 1,1,2-Trichloroethane	7.786	97	821	0.113	ug/L #	89
47) Tetrachloroethene	7.915	164	882557	92.441	ug/L	96
49) Dibromochloromethane	7.915	129	777041	90.032	ug/L #	12
50) 1,2-Dibromoethane	8.294	107	991	0.150	ug/L #	93

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Response via : Initial Calibration

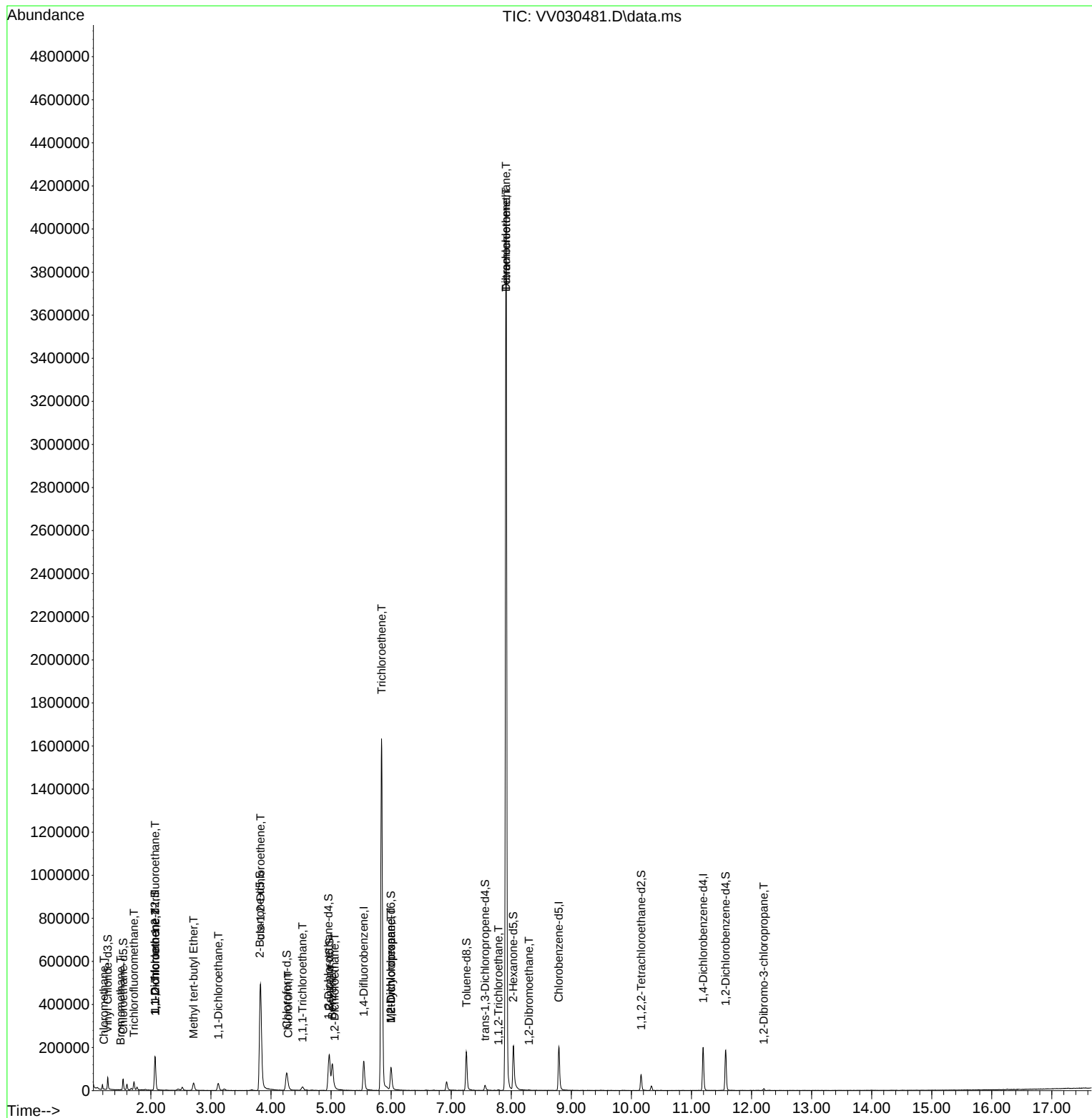
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2-Dibromo-3-chloropr...	12.204	75	387	0.317	ug/L #	3

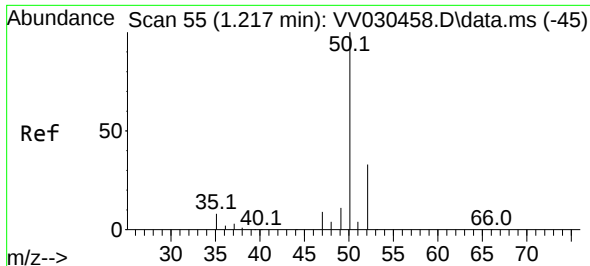
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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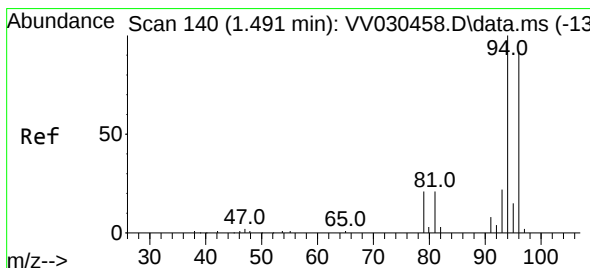
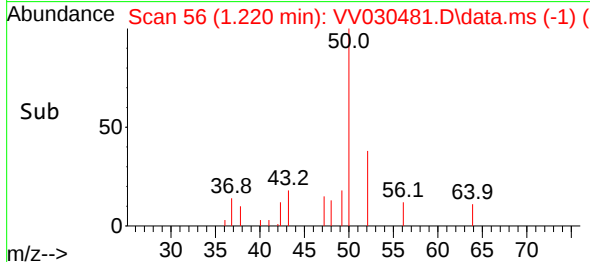
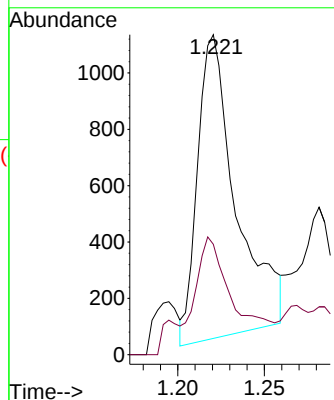
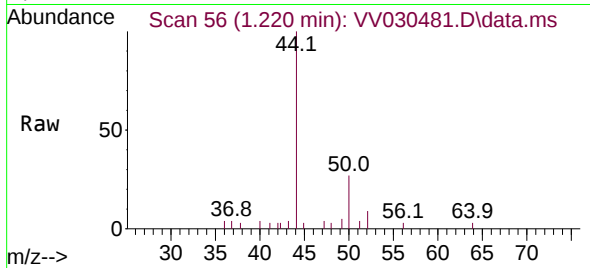




#3
Chloromethane
Concen: 0.090 ug/L
RT: 1.220 min Scan# 50
Delta R.T. 0.003 min
Lab File: VV030481.D
Acq: 10 Apr 2023 20:38

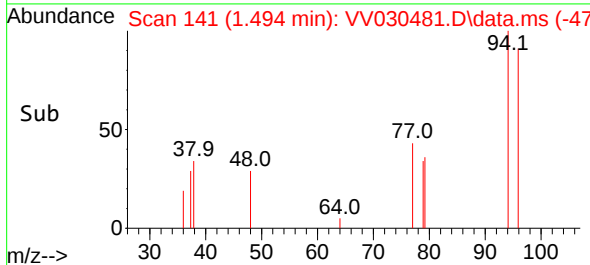
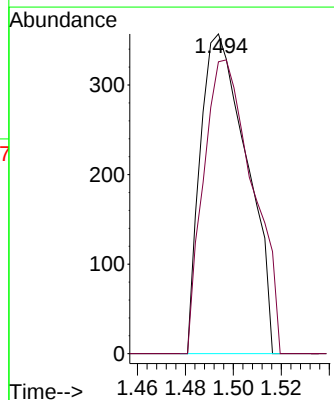
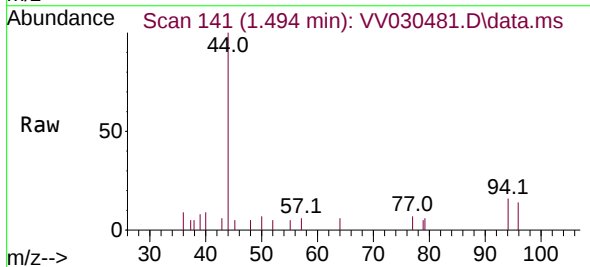
Instrument :
MSVOA_V
ClientSampleId :
BHDY4

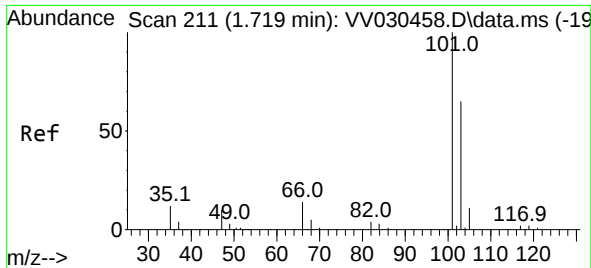
Tgt Ion: 50 Resp: 1668
Ion Ratio Lower Upper
50 100
52 34.5 22.3 41.5



#6
Bromomethane
Concen: 0.124 ug/L
RT: 1.494 min Scan# 141
Delta R.T. 0.003 min
Lab File: VV030481.D
Acq: 10 Apr 2023 20:38

Tgt Ion: 94 Resp: 479
Ion Ratio Lower Upper
94 100
96 91.3 66.1 122.7

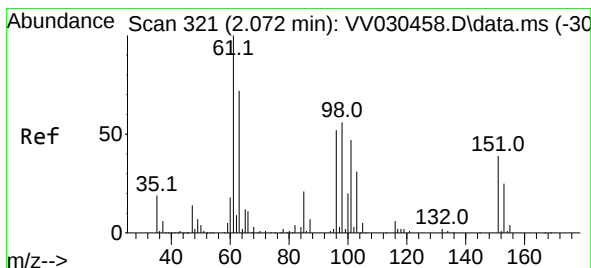
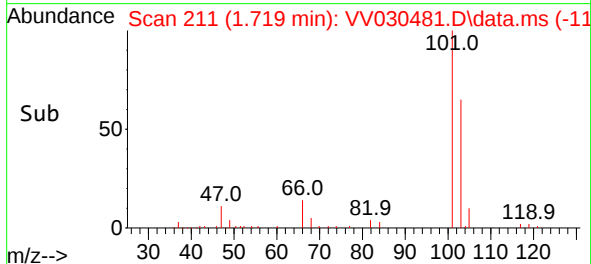
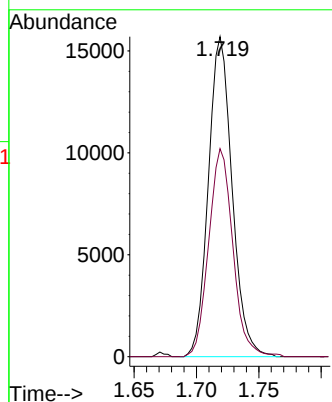
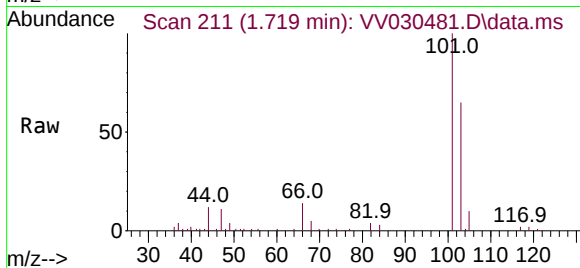




#9
 Trichlorofluoromethane
 Concen: 1.061 ug/L
 RT: 1.719 min Scan# 211
 Delta R.T. 0.000 min
 Lab File: VV030481.D
 Acq: 10 Apr 2023 20:38

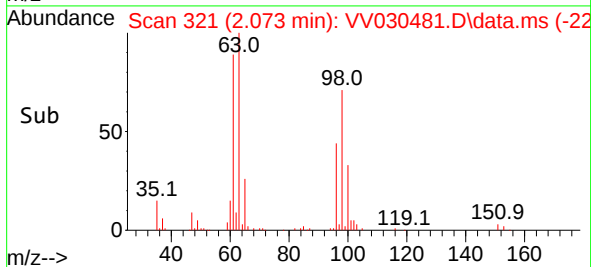
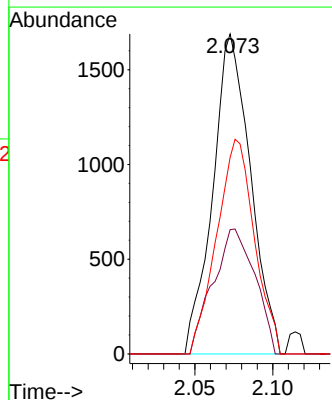
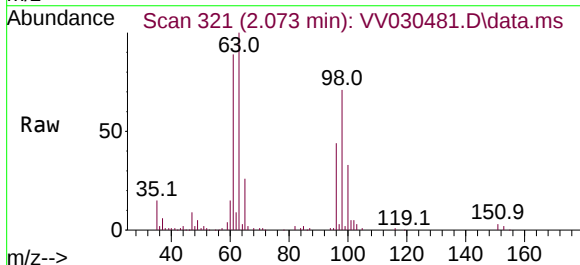
Instrument :
 MSVOA_V
 ClientSampleId :
 BHDY4

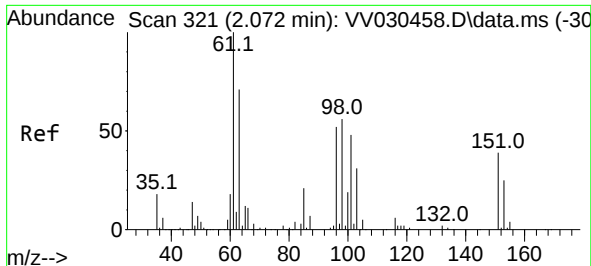
Tgt Ion:101 Resp: 20869
 Ion Ratio Lower Upper
 101 100
 103 66.0 51.0 76.6



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.262 ug/L
 RT: 2.073 min Scan# 321
 Delta R.T. 0.000 min
 Lab File: VV030481.D
 Acq: 10 Apr 2023 20:38

Tgt Ion:101 Resp: 2843
 Ion Ratio Lower Upper
 101 100
 85 43.4 38.1 57.1
 151 67.2 62.7 94.1





#12

1,1-Dichloroethene

Concen: 2.348 ug/L

RT: 2.076 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

Instrument :

MSVOA_V

ClientSampleId :

BHDY4

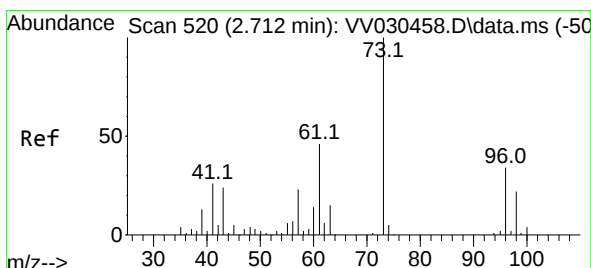
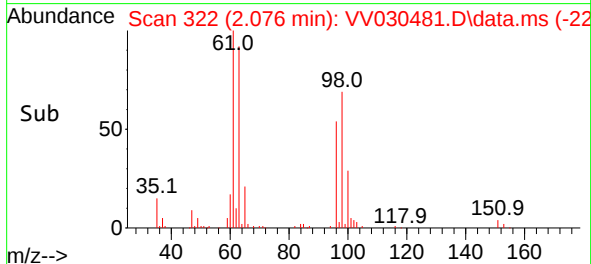
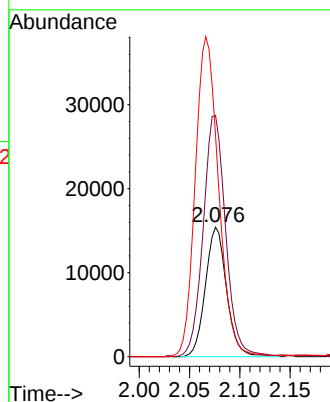
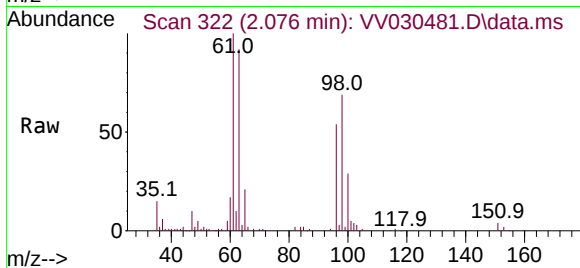
Tgt Ion: 96 Resp: 22641

Ion Ratio Lower Upper

96 100

61 186.4 136.3 253.1

63 170.9 92.1 171.1



#17

Methyl tert-butyl Ether

Concen: 1.275 ug/L

RT: 2.712 min Scan# 520

Delta R.T. 0.000 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

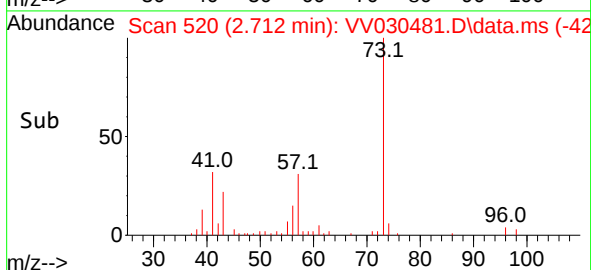
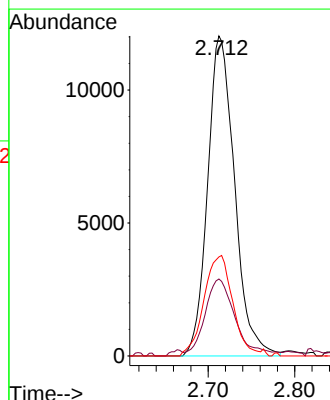
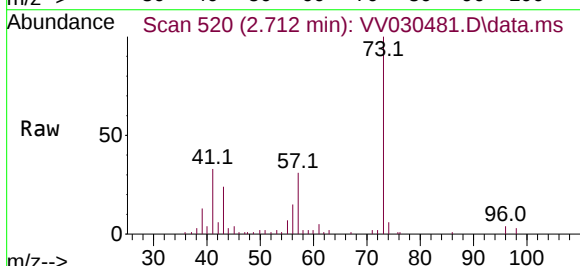
Tgt Ion: 73 Resp: 26030

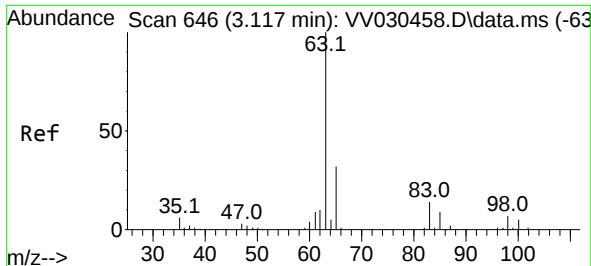
Ion Ratio Lower Upper

73 100

43 25.8 17.4 26.2

57 33.5 18.3 27.5#





#19

1,1-Dichloroethane

Concen: 1.595 ug/L

RT: 3.124 min Scan# 646

Delta R.T. 0.006 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

Instrument :

MSVOA_V

ClientSampleId :

BHDY4

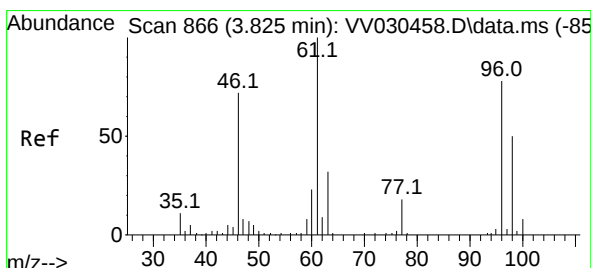
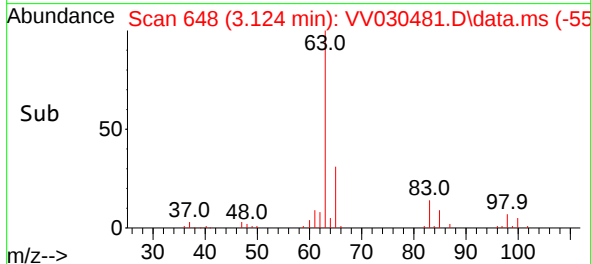
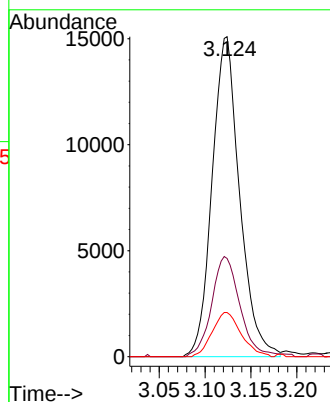
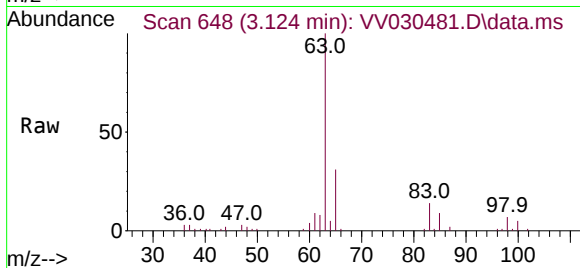
Tgt Ion: 63 Resp: 31410

Ion Ratio Lower Upper

63 100

65 30.7 21.7 40.3

83 13.8 9.1 16.9



#22

cis-1,2-Dichloroethene

Concen: 24.722 ug/L

RT: 3.825 min Scan# 866

Delta R.T. 0.000 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

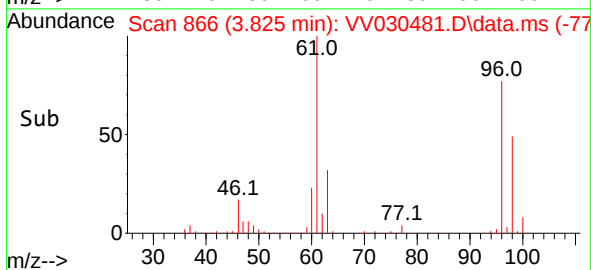
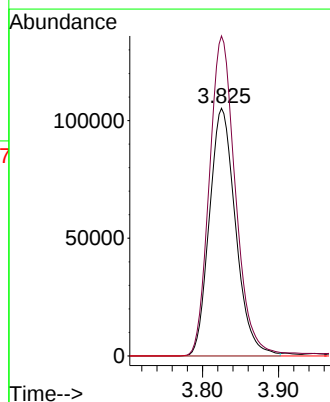
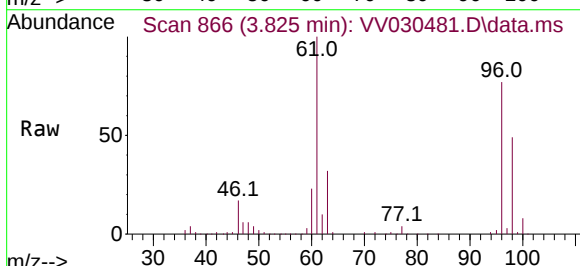
Tgt Ion: 96 Resp: 252034

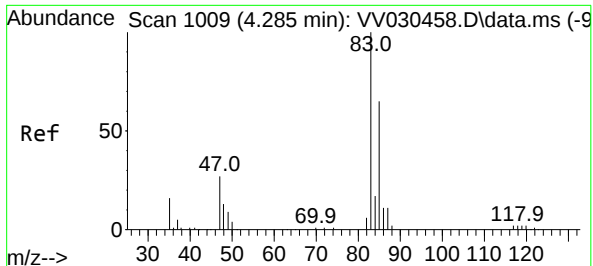
Ion Ratio Lower Upper

96 100

61 129.2 92.0 170.8

68 0.0 0.0 0.0





#25

Chloroform

Concen: 0.500 ug/L

RT: 4.288 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV030481.D

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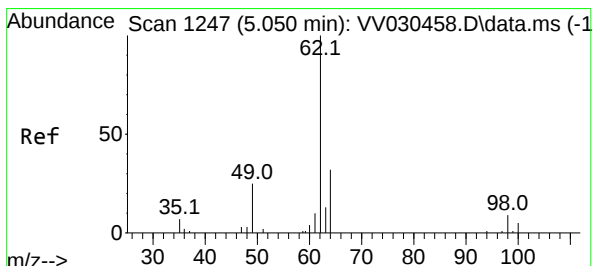
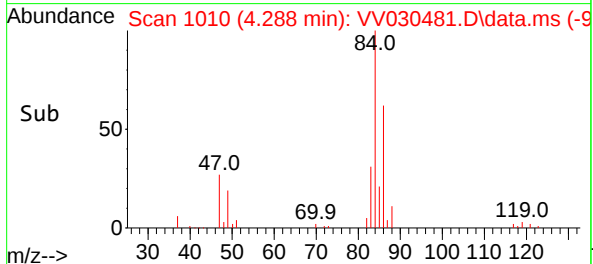
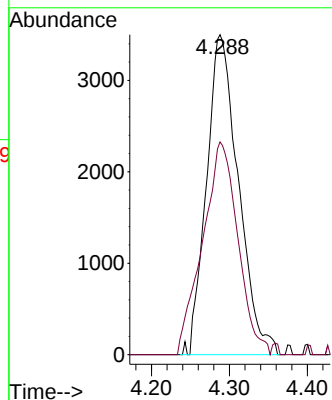
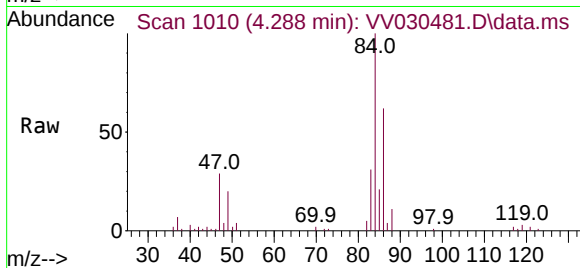
BHDY4

Tgt Ion: 83 Resp: 9942

Ion Ratio Lower Upper

83 100

85 66.5 47.6 88.4



#27

1,2-Dichloroethane

Concen: 0.984 ug/L

RT: 5.060 min Scan# 1250

Delta R.T. 0.010 min

Lab File: VV030481.D

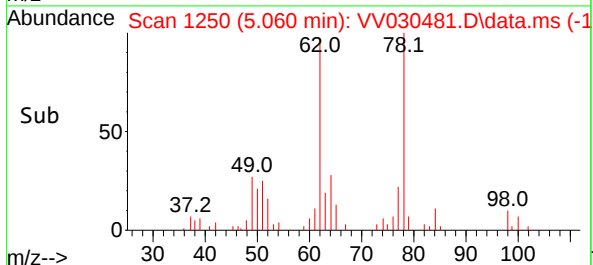
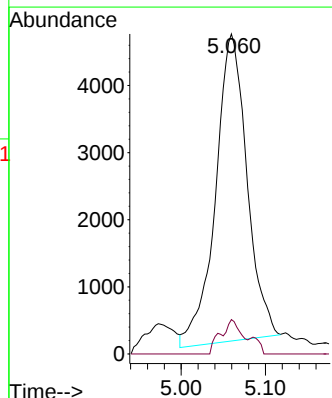
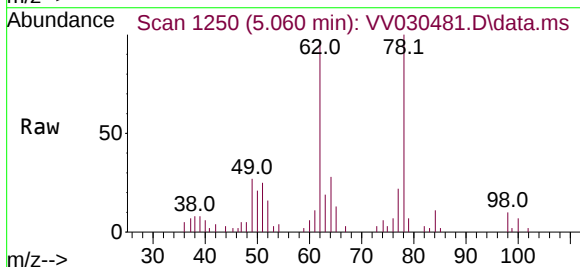
Acq: 10 Apr 2023 20:38

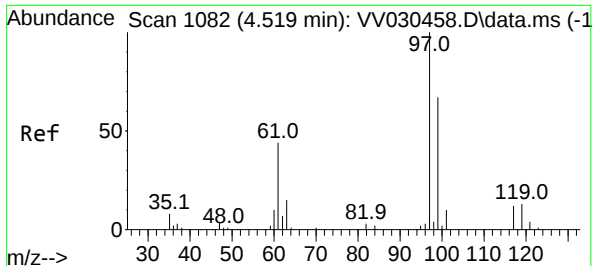
Tgt Ion: 62 Resp: 11839

Ion Ratio Lower Upper

62 100

98 10.8 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 0.686 ug/L

RT: 4.526 min Scan# 1084

Delta R.T. 0.006 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

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BHDY4

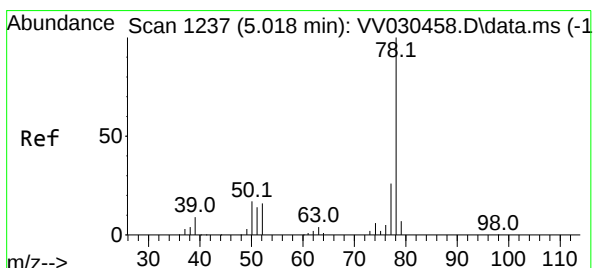
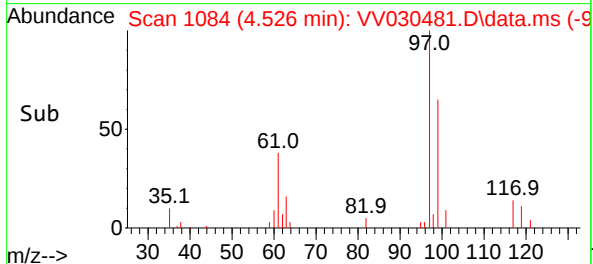
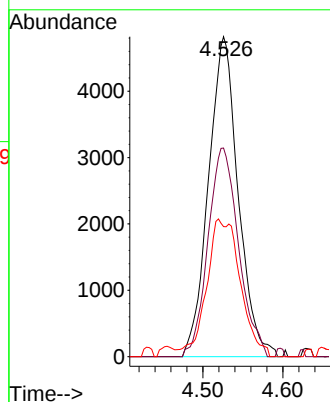
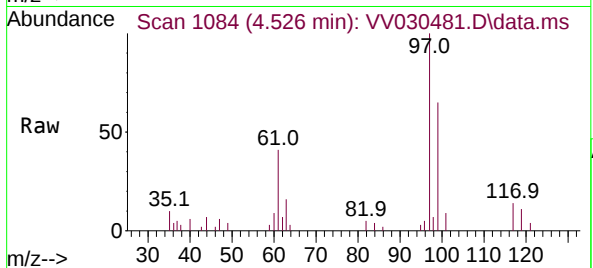
Tgt Ion: 97 Resp: 12446

Ion Ratio Lower Upper

97 100

99 67.2 50.9 76.3

61 48.8 35.9 53.9



#33

Benzene

Concen: 3.040 ug/L

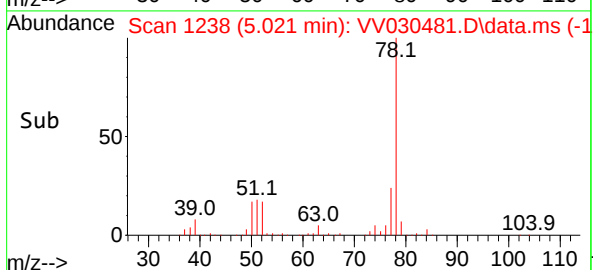
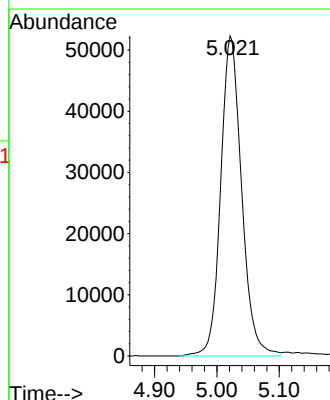
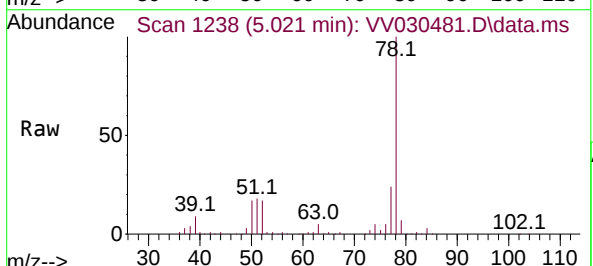
RT: 5.021 min Scan# 1238

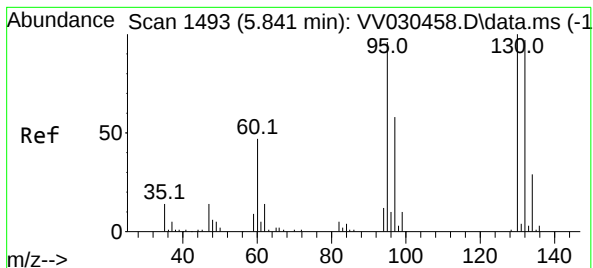
Delta R.T. 0.003 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

Tgt Ion: 78 Resp: 121937





#34

Trichloroethene

Concen: 50.911 ug/L

RT: 5.841 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

Instrument :

MSVOA_V

ClientSampleId :

BHDY4

Tgt Ion: 95 Resp: 550741

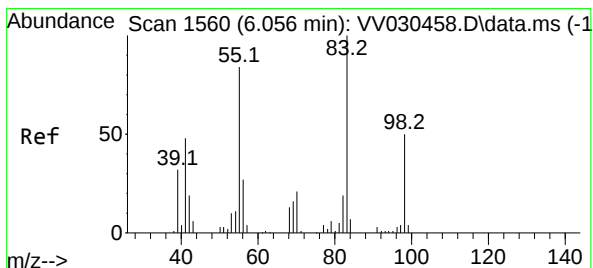
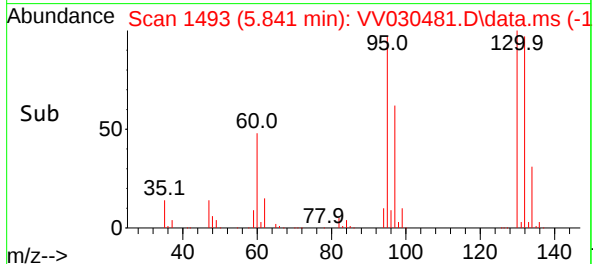
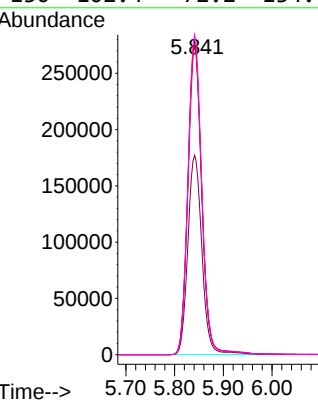
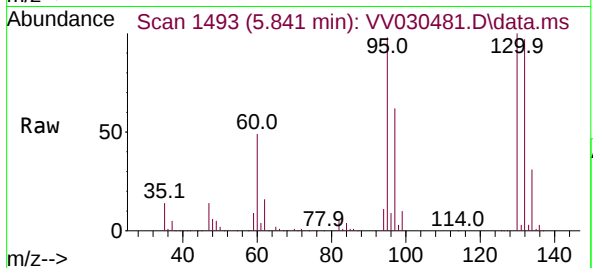
Ion Ratio Lower Upper

95 100

97 63.9 44.2 82.2

132 98.9 69.5 129.1

130 102.4 72.2 134.0



#35

Methylcyclohexane

Concen: 0.749 ug/L

RT: 5.998 min Scan# 1542

Delta R.T. -0.058 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

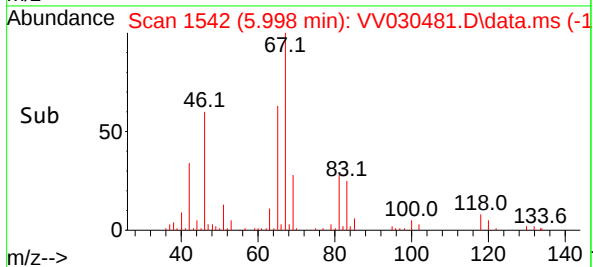
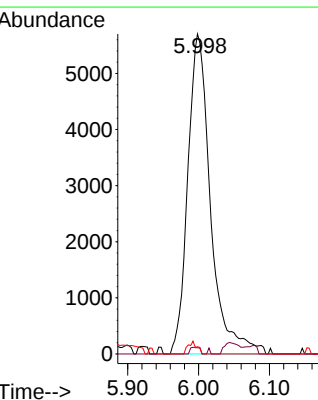
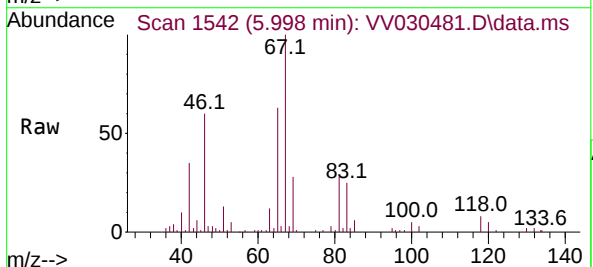
Tgt Ion: 83 Resp: 12716

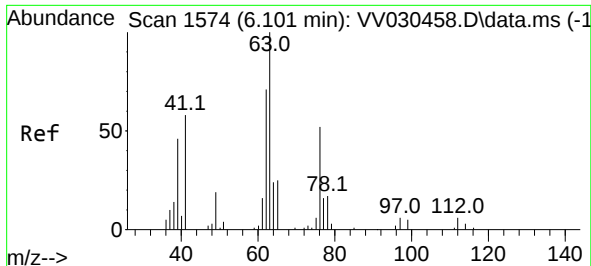
Ion Ratio Lower Upper

83 100

55 0.8 66.6 100.0#

98 0.0 38.6 58.0#





#37

1,2-Dichloropropane

Concen: 0.612 ug/L

RT: 5.998 min Scan# 11

Delta R.T. -0.103 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

Instrument :

MSVOA_V

ClientSampleId :

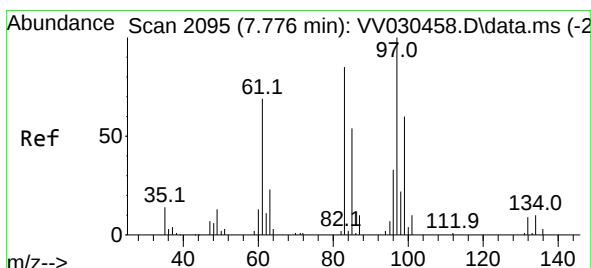
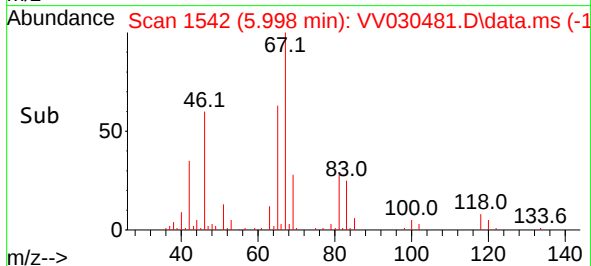
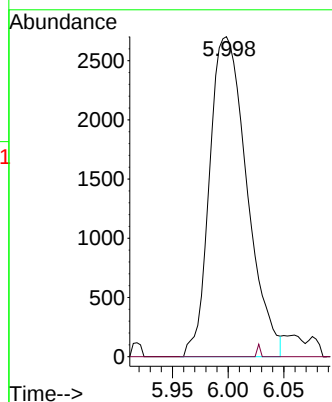
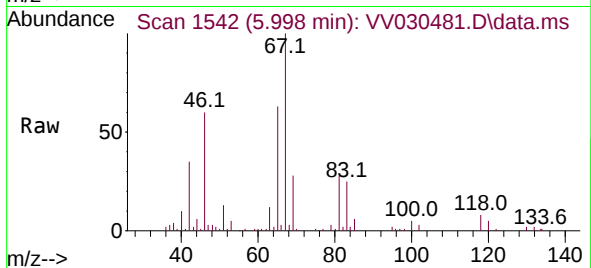
BHDY4

Tgt Ion: 63 Resp: 6304

Ion Ratio Lower Upper

63 100

112 0.3 3.9 5.9#



#45

1,1,2-Trichloroethane

Concen: 0.113 ug/L

RT: 7.786 min Scan# 2098

Delta R.T. 0.010 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

Tgt Ion: 97 Resp: 821

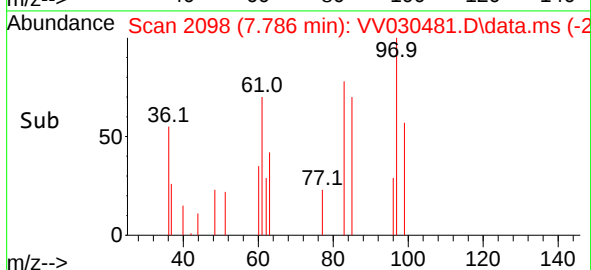
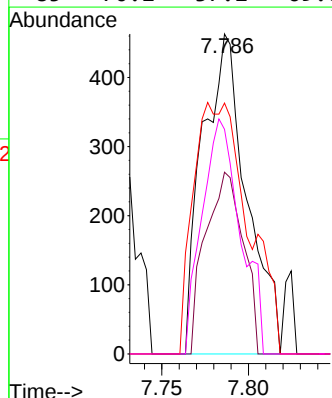
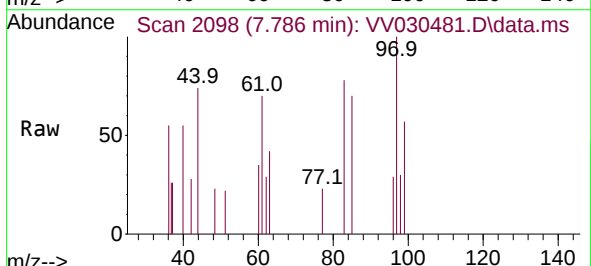
Ion Ratio Lower Upper

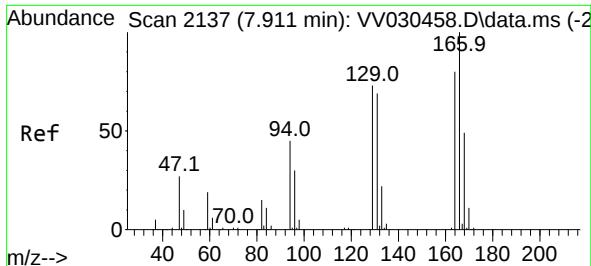
97 100

99 56.8 44.0 81.8

83 78.4 58.8 109.2

85 70.2 37.2 69.0#





#47

Tetrachloroethene

Concen: 92.441 ug/L

RT: 7.915 min Scan# 2138

Delta R.T. 0.003 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

Instrument :

MSVOA_V

ClientSampleId :

BHDY4

Tgt Ion:164 Resp: 882557

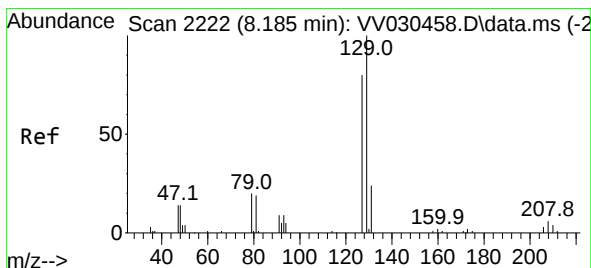
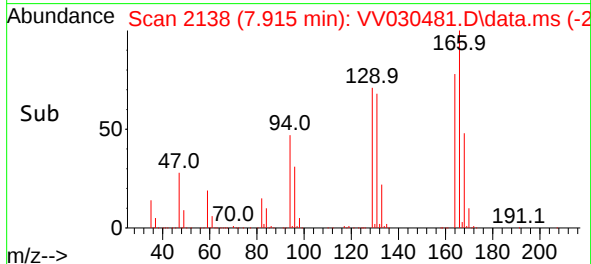
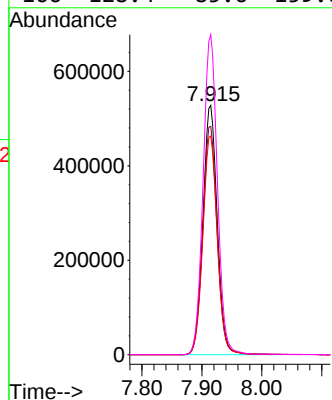
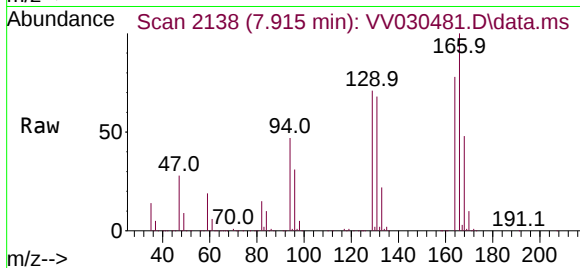
Ion Ratio Lower Upper

164 100

129 91.6 60.8 112.8

131 87.8 61.7 114.7

166 128.4 85.6 159.0



#49

Dibromochloromethane

Concen: 90.032 ug/L

RT: 7.915 min Scan# 2138

Delta R.T. -0.270 min

Lab File: VV030481.D

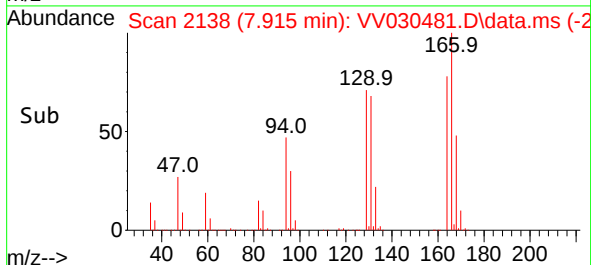
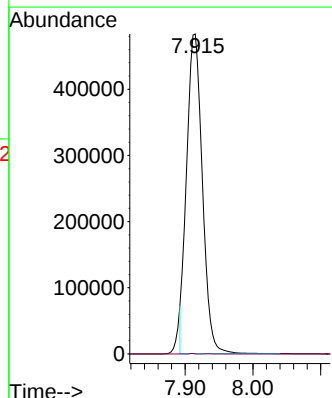
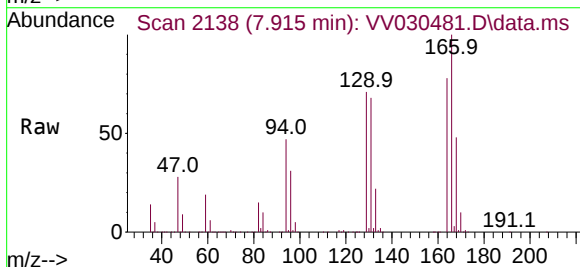
Acq: 10 Apr 2023 20:38

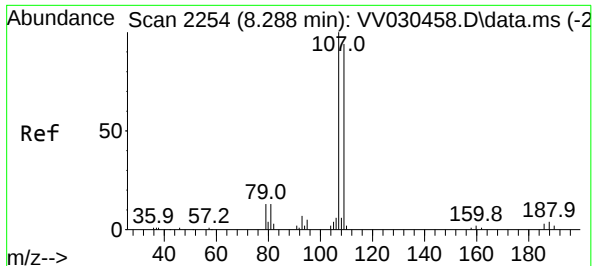
Tgt Ion:129 Resp: 777041

Ion Ratio Lower Upper

129 100

127 0.0 52.7 97.9#





#50

1,2-Dibromoethane

Concen: 0.150 ug/L

RT: 8.294 min Scan# 21

Delta R.T. 0.007 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

Instrument :

MSVOA_V

ClientSampleId :

BHDY4

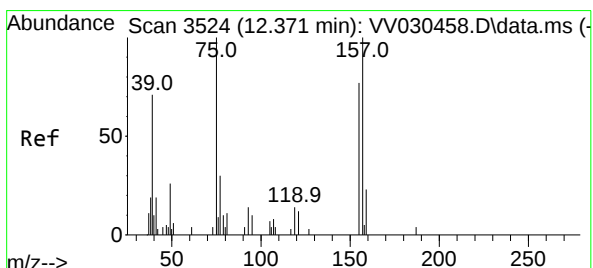
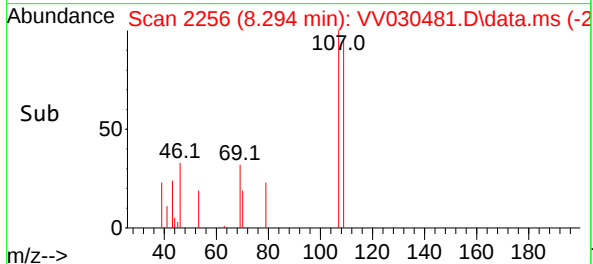
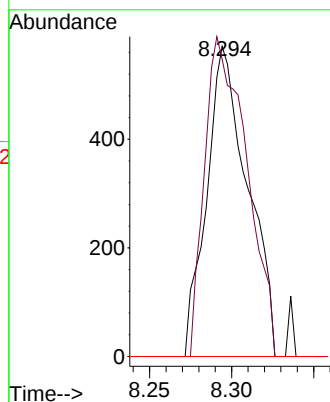
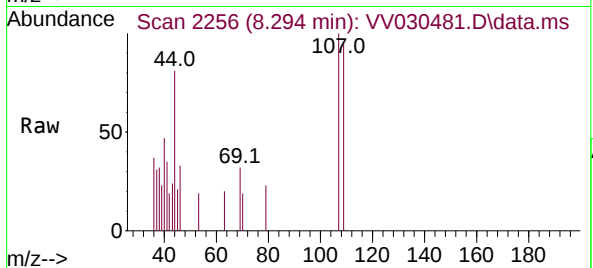
Tgt Ion:107 Resp: 991

Ion Ratio Lower Upper

107 100

109 96.0 62.9 116.9

188 0.0 3.0 4.6#



#68

1,2-Dibromo-3-chloropropane

Concen: 0.317 ug/L

RT: 12.204 min Scan# 3472

Delta R.T. -0.167 min

Lab File: VV030481.D

Acq: 10 Apr 2023 20:38

Tgt Ion: 75 Resp: 387

Ion Ratio Lower Upper

75 100

155 0.0 64.6 96.8#

157 0.0 83.8 125.6#

