

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041123\
 Data File : VW030508.D
 Acq On : 11 Apr 2023 20:42
 Operator : SY/MD
 Sample : 02250-05
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHDx6

Quant Time: Apr 12 05:06:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Apr 12 05:00:18 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	129075	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	125008	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	61479	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	29843	3.491	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	69.800%
7) Chloroethane-d5	1.539	69	34072	4.107	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.200%
11) 1,1-Dichloroethene-d2	2.072	63	1764529	86.985	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	1739.800%#
20) 2-Butanone-d5	3.818	46	123716	55.991	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.980%
24) Chloroform-d	4.262	84	95604	4.621	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.400%
26) 1,2-Dichloroethane-d4	4.953	65	47884	4.905	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.200%
32) Benzene-d6	4.973	84	163971	4.655	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.000%
36) 1,2-Dichloropropane-d6	5.998	67	54907	4.979	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.600%
41) Toluene-d8	7.252	98	132920	4.109	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.200%
43) trans-1,3-Dichloroprop...	7.564	79	17620	4.243	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.800%
46) 2-Hexanone-d5	8.034	63	91878	55.065	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.140%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	41077	4.726	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.600%
66) 1,2-Dichlorobenzene-d4	11.570	152	54691	4.977	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	5671	0.274	ug/L	92
5) Vinyl chloride	1.285	62	5734	0.380	ug/L	85
9) Trichlorofluoromethane	1.719	101	3401	0.155	ug/L	92
10) 1,1,2-Trichloro-1,2,2-...	2.072	101	301424	24.818	ug/L	97
12) 1,1-Dichloroethene	2.076	96	2883423	267.359	ug/L #	68
14) Carbon disulfide	2.249	76	3541	0.100	ug/L #	82
16) Methylene chloride	2.455	84	12256	0.961	ug/L	97
17) Methyl tert-butyl Ether	2.715	73	31056	1.360	ug/L	96
18) trans-1,2-Dichloroethene	2.703	96	3588	0.316	ug/L	96
19) 1,1-Dichloroethane	3.121	63	2013924	91.433	ug/L	98
22) cis-1,2-Dichloroethene	3.825	96	187687	16.460	ug/L	99
25) Chloroform	4.288	83	27668	1.243	ug/L	93
27) 1,2-Dichloroethane	5.056	62	25640	1.905	ug/L	96
29) 1,1,1-Trichloroethane	4.522	97	513120	25.538	ug/L	99
31) Carbon tetrachloride	4.751	117	4575	0.251	ug/L	96
34) Trichloroethene	5.844	95	5380841	449.348	ug/L	96
42) Toluene	7.326	91	19862	0.420	ug/L	100
45) 1,1,2-Trichloroethane	7.783	97	7341	0.915	ug/L	93
47) Tetrachloroethene	7.915	164	887732	83.999	ug/L	96

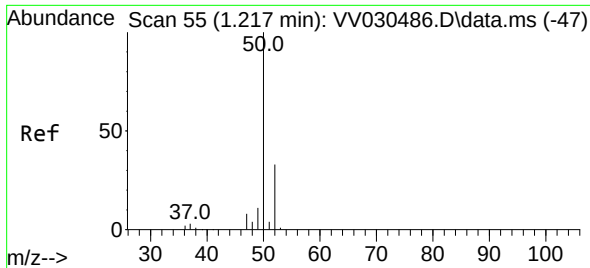
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 Data File : VV030508.D
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 QLast Update : Wed Apr 12 05:00:18 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	8.825	112	3853	0.127	ug/L	90
61) 1,2,3-Trichloropropane	10.217	75	1788	0.325	ug/L #	87
64) 1,3-Dichlorobenzene	11.130	146	4477	0.198	ug/L	97
65) 1,4-Dichlorobenzene	11.220	146	9007	0.395	ug/L	95
67) 1,2-Dichlorobenzene	11.586	146	6962	0.342	ug/L	97

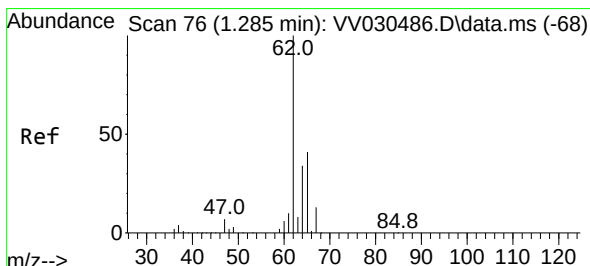
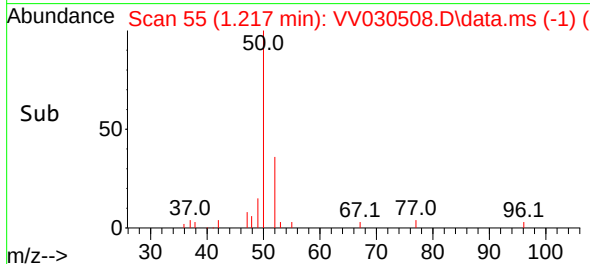
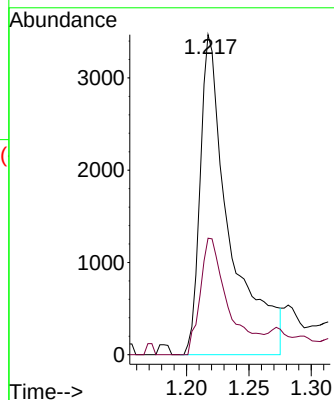
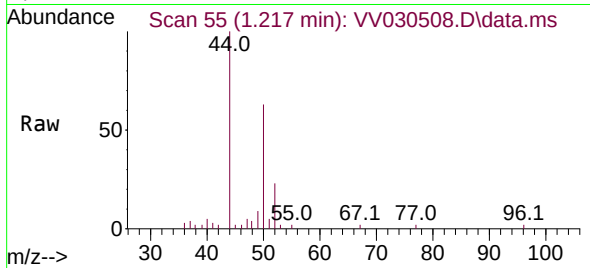
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#3
Chloromethane
Concen: 0.274 ug/L
RT: 1.217 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

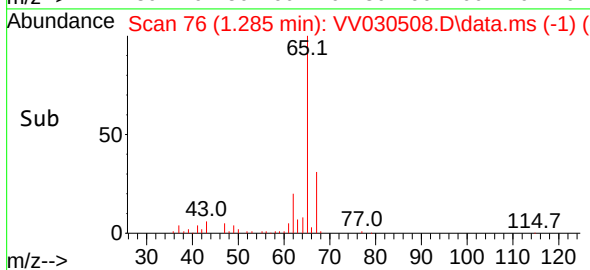
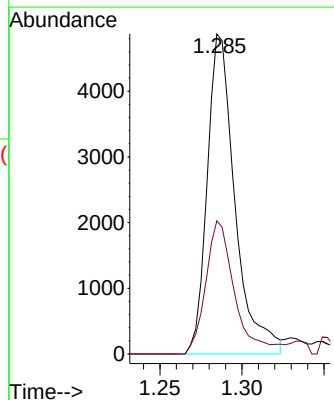
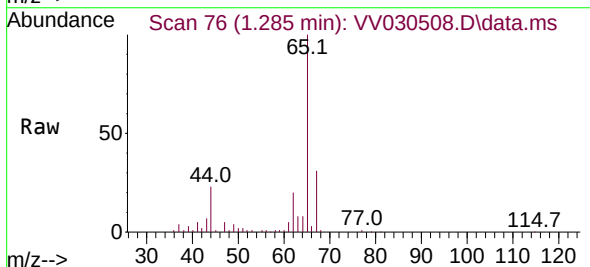
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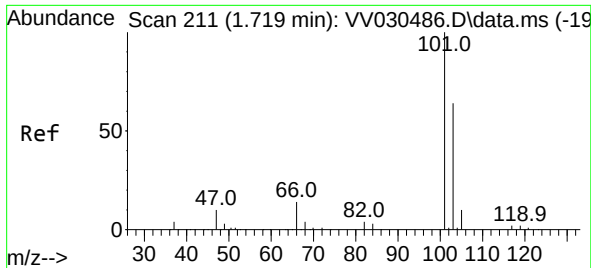
Tgt Ion: 50 Resp: 5671
Ion Ratio Lower Upper
50 100
52 36.4 22.3 41.5



#5
Vinyl chloride
Concen: 0.380 ug/L
RT: 1.285 min Scan# 76
Delta R.T. -0.000 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

Tgt Ion: 62 Resp: 5734
Ion Ratio Lower Upper
62 100
64 41.6 23.2 43.2

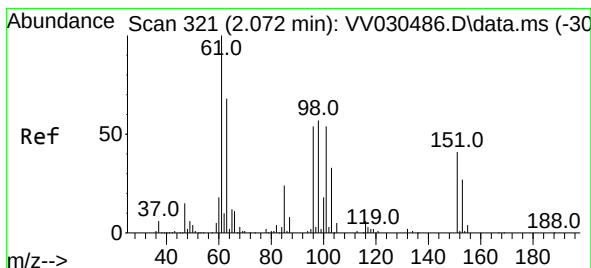
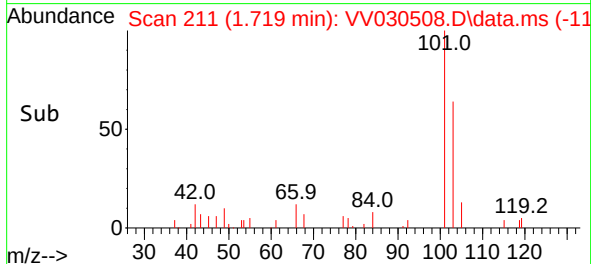
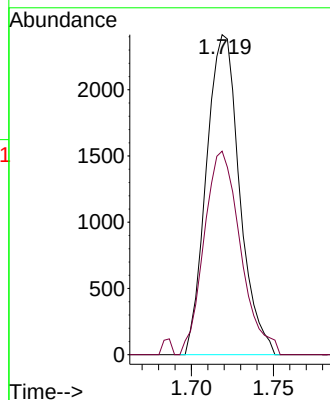
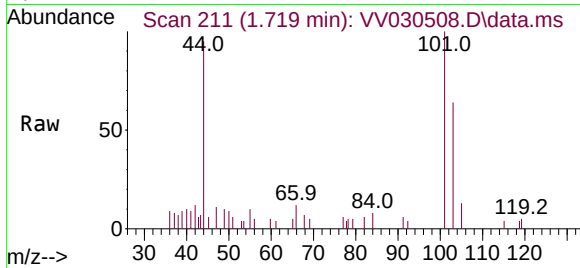




#9
 Trichlorofluoromethane
 Concen: 0.155 ug/L
 RT: 1.719 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: VV030508.D
 Acq: 11 Apr 2023 20:42

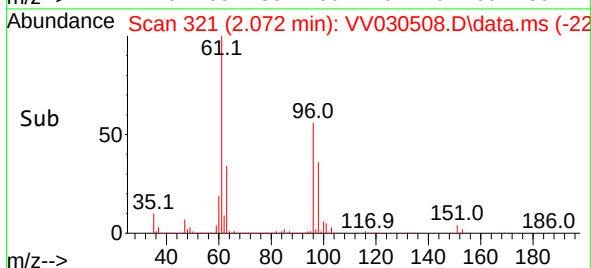
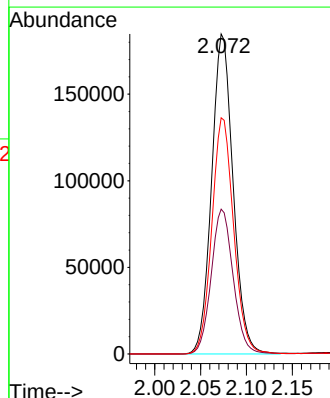
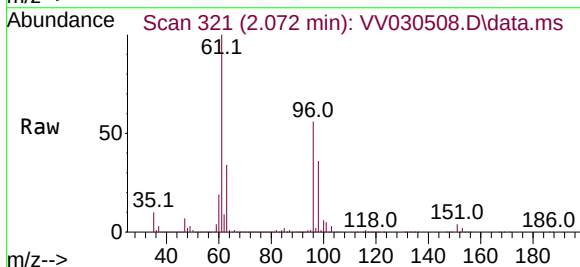
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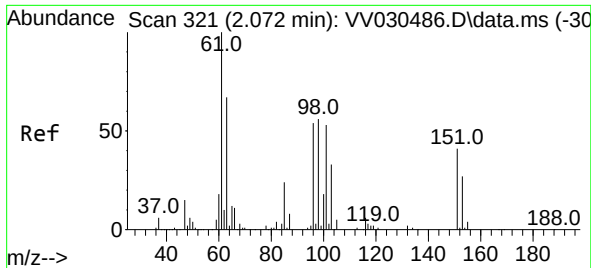
Tgt Ion:101 Resp: 3401
 Ion Ratio Lower Upper
 101 100
 103 69.8 51.0 76.6



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 24.818 ug/L
 RT: 2.072 min Scan# 321
 Delta R.T. -0.000 min
 Lab File: VV030508.D
 Acq: 11 Apr 2023 20:42

Tgt Ion:101 Resp: 301424
 Ion Ratio Lower Upper
 101 100
 85 46.2 38.1 57.1
 151 74.9 62.7 94.1

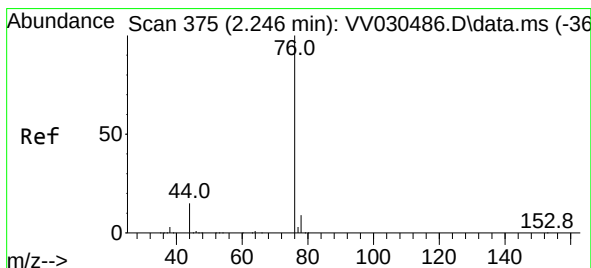
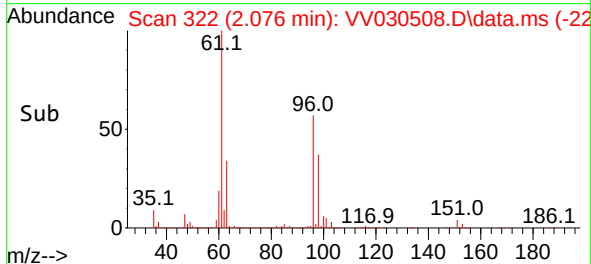
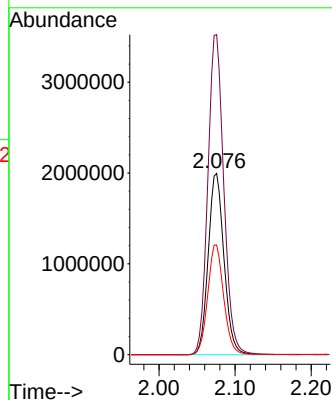
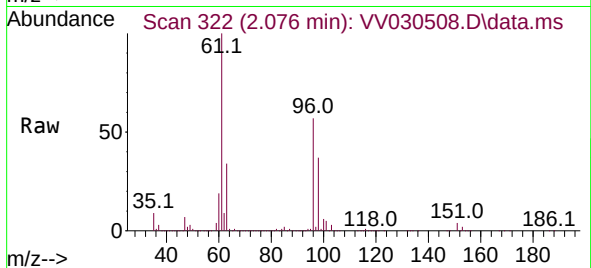




#12
1,1-Dichloroethene
Concen: 267.359 ug/L
RT: 2.076 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

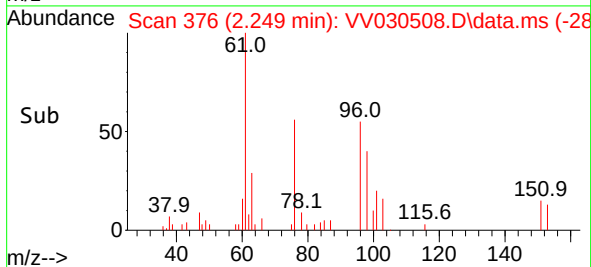
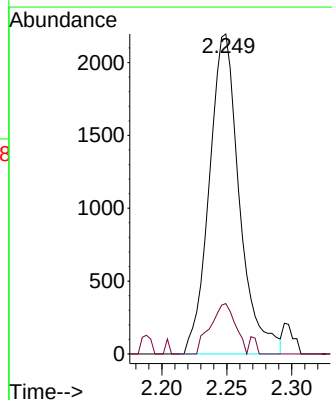
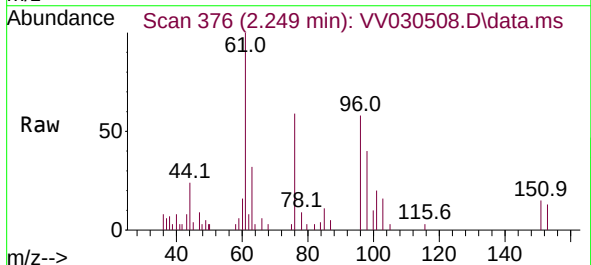
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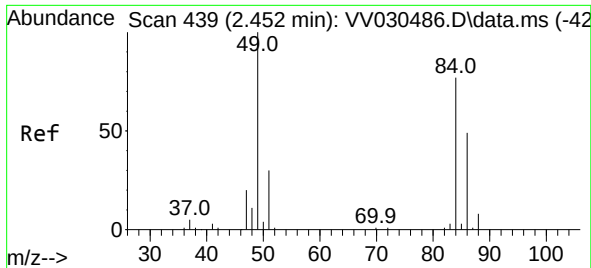
Tgt Ion: 96 Resp: 2883423
Ion Ratio Lower Upper
96 100
61 176.5 136.3 253.1
63 60.4 92.1 171.1#



#14
Carbon disulfide
Concen: 0.100 ug/L
RT: 2.249 min Scan# 376
Delta R.T. 0.003 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

Tgt Ion: 76 Resp: 3541
Ion Ratio Lower Upper
76 100
78 15.8 7.3 10.9#

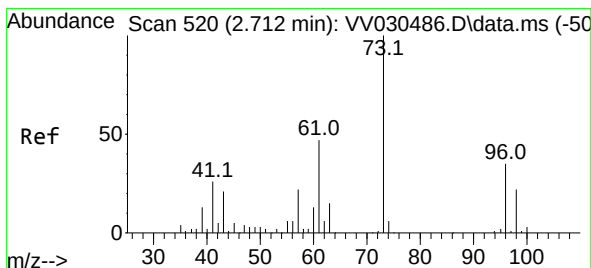
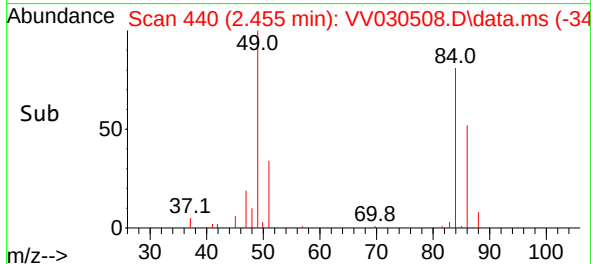
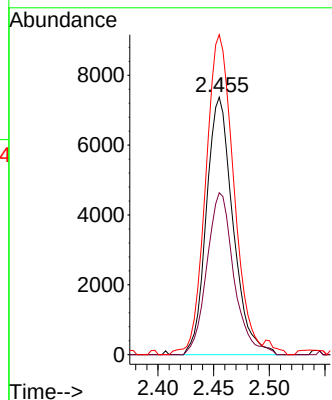
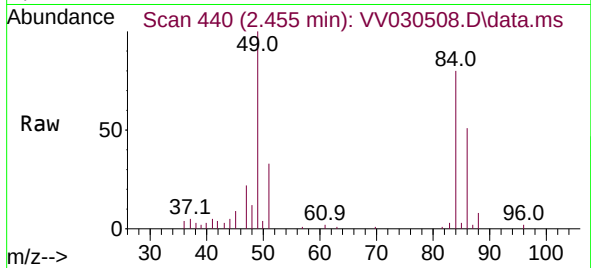




#16
Methylene chloride
Concen: 0.961 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.003 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

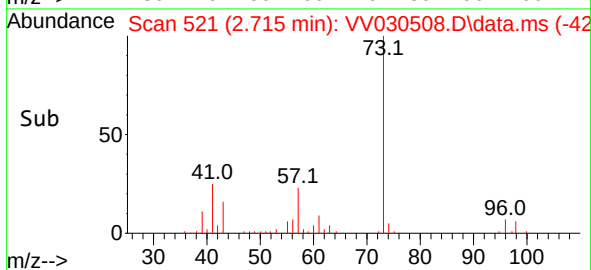
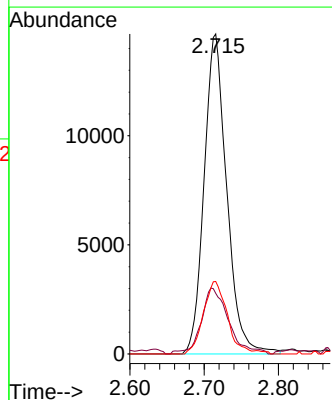
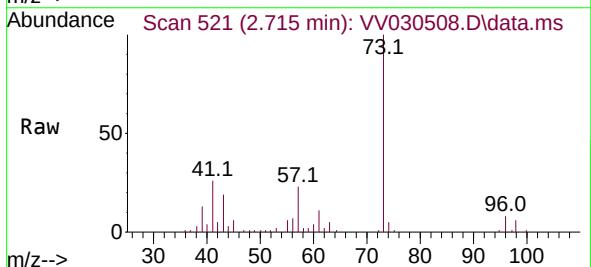
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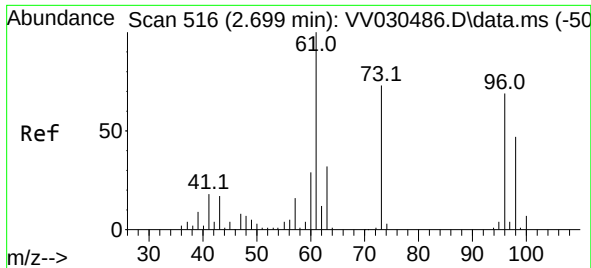
Tgt Ion: 84 Resp: 12256
Ion Ratio Lower Upper
84 100
86 62.9 44.0 81.6
49 124.3 90.6 168.3



#17
Methyl tert-butyl Ether
Concen: 1.360 ug/L
RT: 2.715 min Scan# 521
Delta R.T. 0.003 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

Tgt Ion: 73 Resp: 31056
Ion Ratio Lower Upper
73 100
43 24.7 17.4 26.2
57 23.8 18.3 27.5

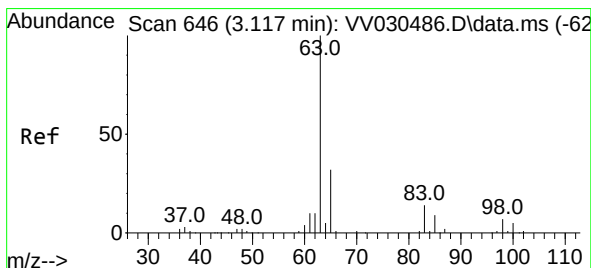
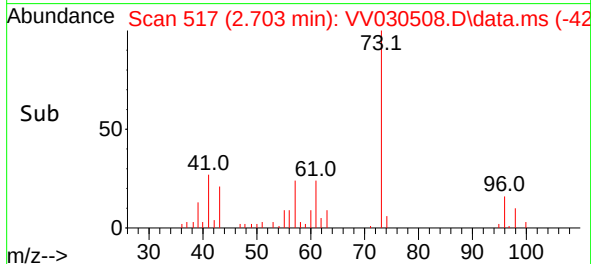
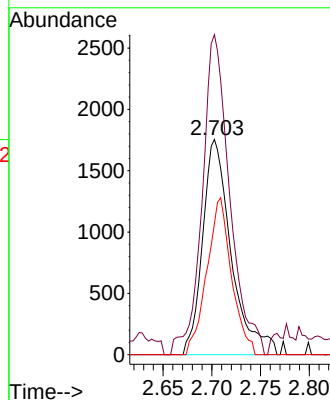
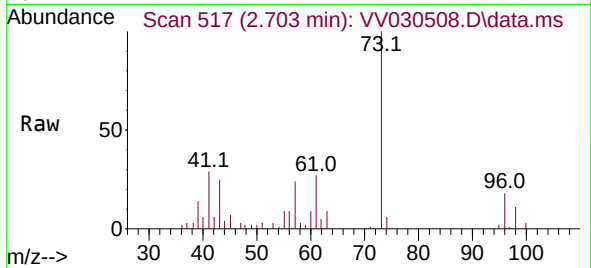




#18
trans-1,2-Dichloroethene
Concen: 0.316 ug/L
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

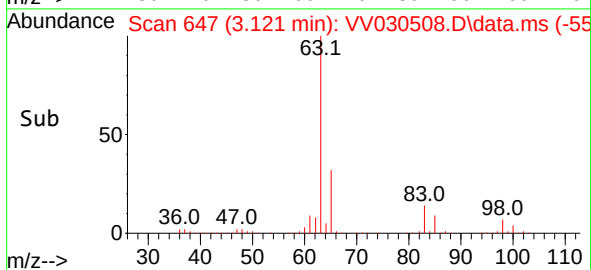
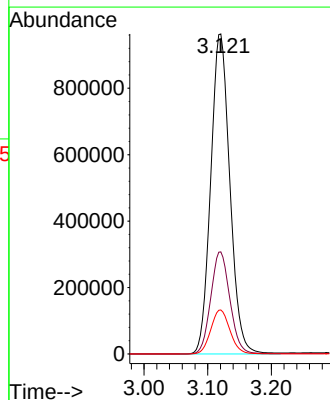
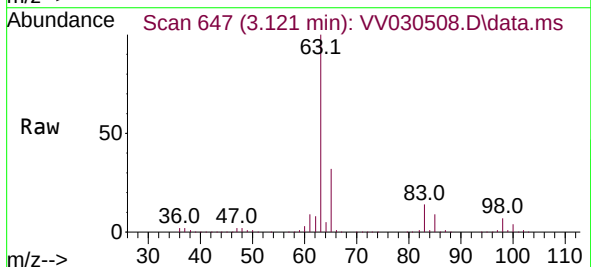
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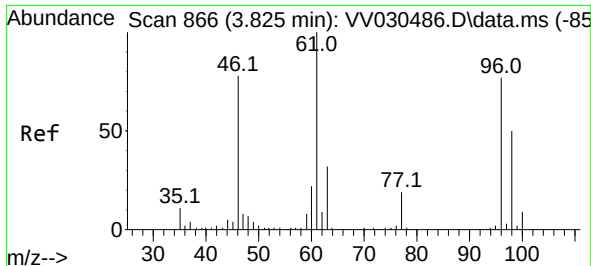
Tgt Ion: 96 Resp: 3588
Ion Ratio Lower Upper
96 100
61 148.7 101.7 188.9
98 61.0 45.8 85.2



#19
1,1-Dichloroethane
Concen: 91.433 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

Tgt Ion: 63 Resp: 2013924
Ion Ratio Lower Upper
63 100
65 31.9 21.7 40.3
83 13.7 9.1 16.9

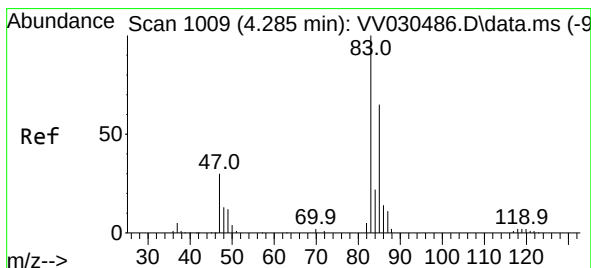
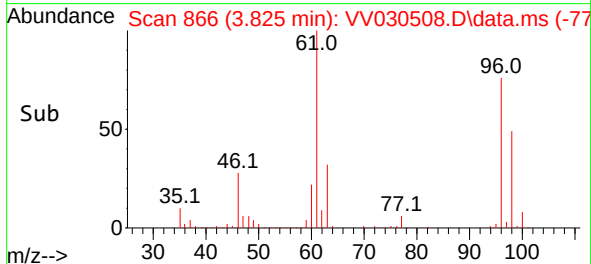
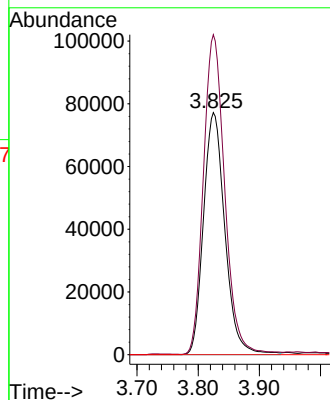
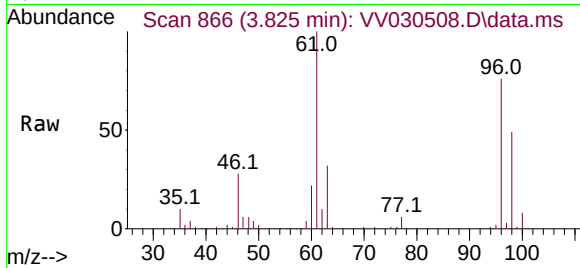




#22
cis-1,2-Dichloroethene
Concen: 16.460 ug/L
RT: 3.825 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

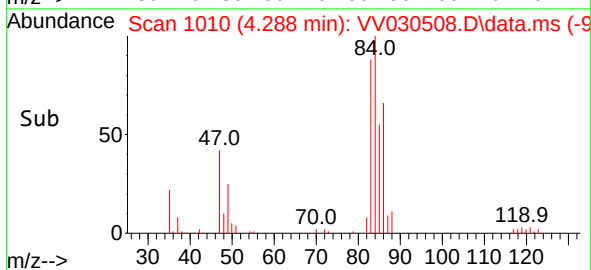
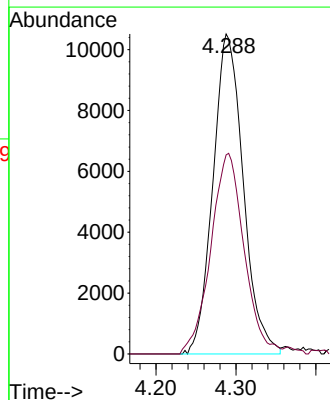
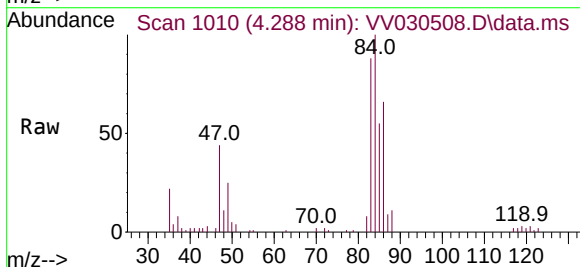
Instrument :
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ClientSampleId :
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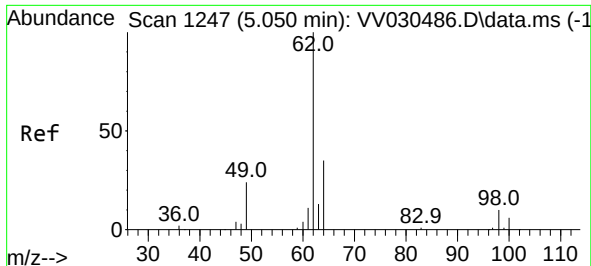
Tgt Ion: 96 Resp: 187687
Ion Ratio Lower Upper
96 100
61 132.2 92.0 170.8
68 0.0 0.0 0.0



#25
Chloroform
Concen: 1.243 ug/L
RT: 4.288 min Scan# 1010
Delta R.T. 0.003 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

Tgt Ion: 83 Resp: 27668
Ion Ratio Lower Upper
83 100
85 62.2 47.6 88.4





#27

1,2-Dichloroethane

Concen: 1.905 ug/L

RT: 5.056 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV030508.D

Acq: 11 Apr 2023 20:42

Instrument :

MSVOA_V

ClientSampleId :

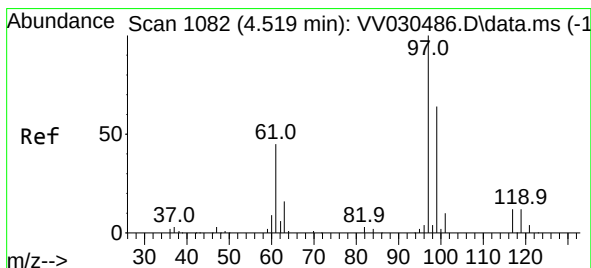
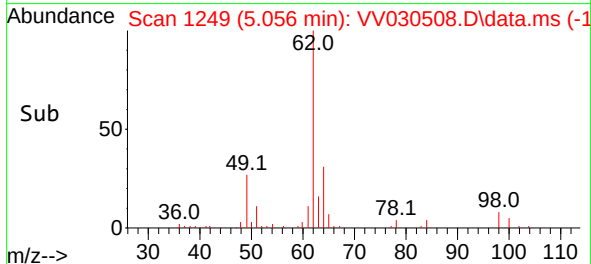
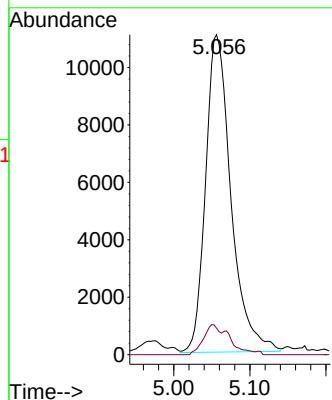
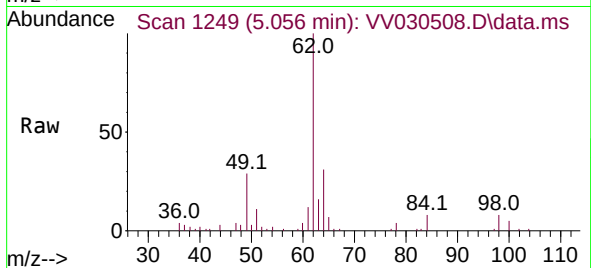
BHDX6

Tgt Ion: 62 Resp: 25640

Ion Ratio Lower Upper

62 100

98 8.3 7.8 11.8



#29

1,1,1-Trichloroethane

Concen: 25.538 ug/L

RT: 4.522 min Scan# 1083

Delta R.T. 0.003 min

Lab File: VV030508.D

Acq: 11 Apr 2023 20:42

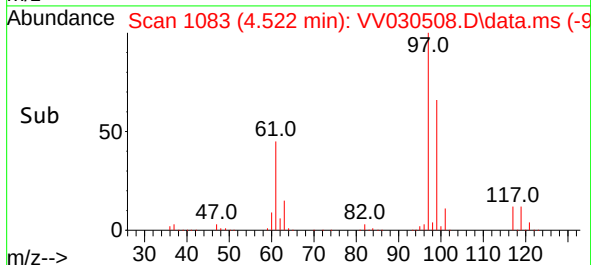
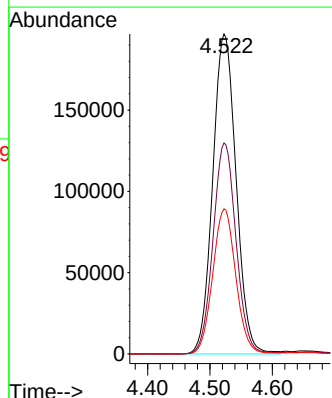
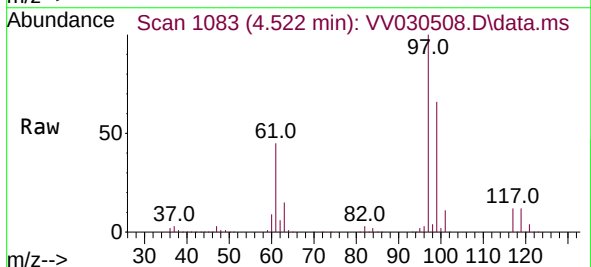
Tgt Ion: 97 Resp: 513120

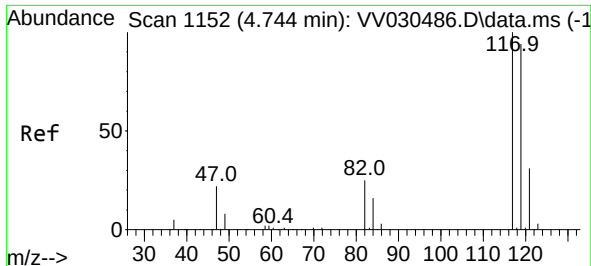
Ion Ratio Lower Upper

97 100

99 64.9 50.9 76.3

61 44.7 35.9 53.9

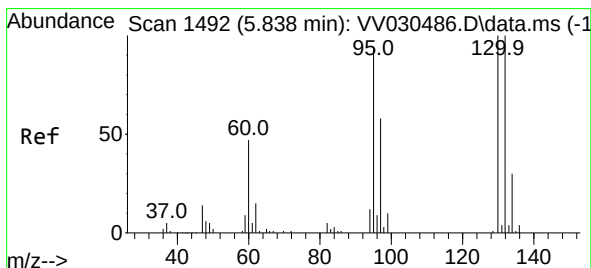
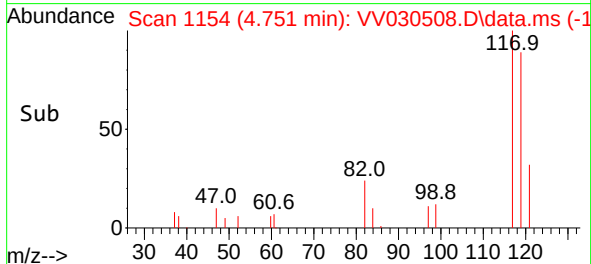
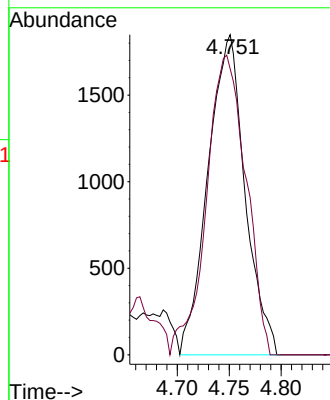
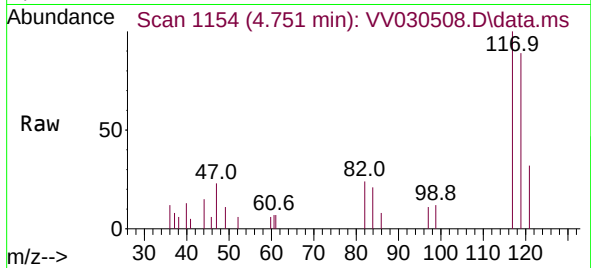




#31
Carbon tetrachloride
Concen: 0.251 ug/L
RT: 4.751 min Scan# 1152
Delta R.T. 0.006 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

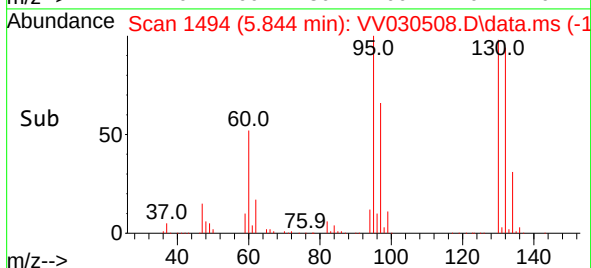
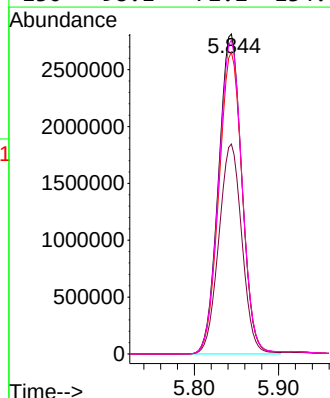
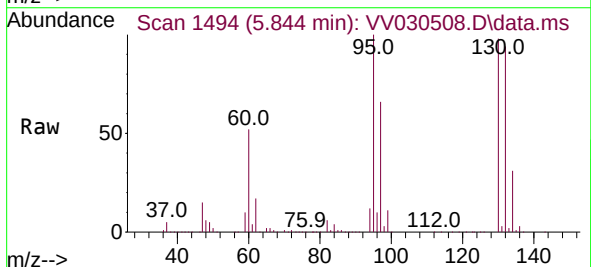
Instrument :
MSVOA_V
ClientSampleId :
BHD6

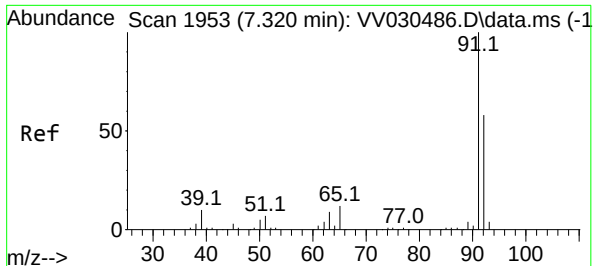
Tgt Ion:117 Resp: 4575
Ion Ratio Lower Upper
117 100
119 99.5 76.2 114.4



#34
Trichloroethene
Concen: 449.348 ug/L
RT: 5.844 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

Tgt Ion: 95 Resp: 5380841
Ion Ratio Lower Upper
95 100
97 65.6 44.2 82.2
132 94.3 69.5 129.1
130 98.1 72.2 134.0





#42

Toluene

Concen: 0.420 ug/L

RT: 7.326 min Scan# 1953

Delta R.T. 0.006 min

Lab File: VV030508.D

Acq: 11 Apr 2023 20:42

Instrument :

MSVOA_V

ClientSampleId :

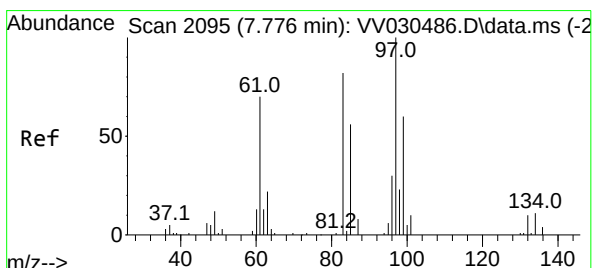
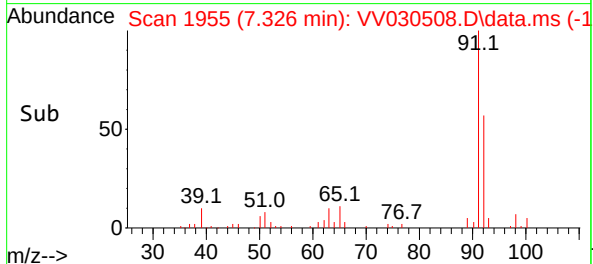
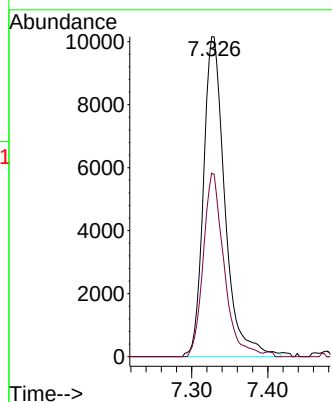
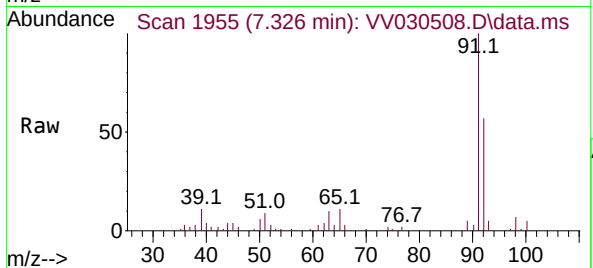
BHDX6

Tgt Ion: 91 Resp: 19862

Ion Ratio Lower Upper

91 100

92 57.3 40.4 75.0



#45

1,1,2-Trichloroethane

Concen: 0.915 ug/L

RT: 7.783 min Scan# 2097

Delta R.T. 0.006 min

Lab File: VV030508.D

Acq: 11 Apr 2023 20:42

Tgt Ion: 97 Resp: 7341

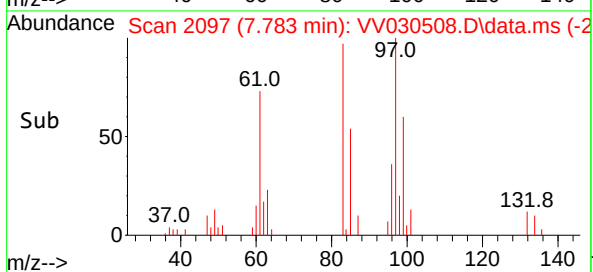
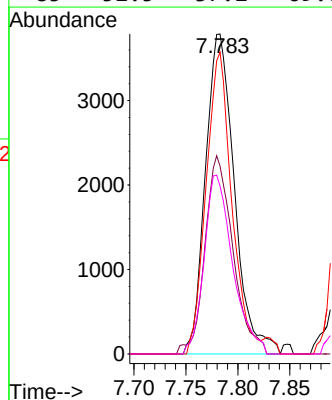
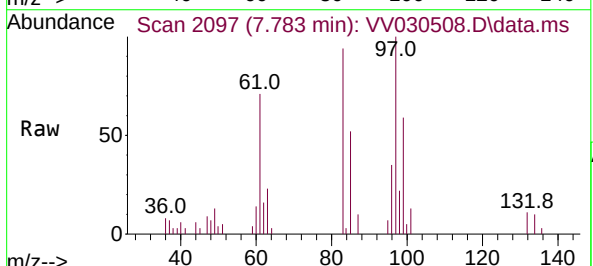
Ion Ratio Lower Upper

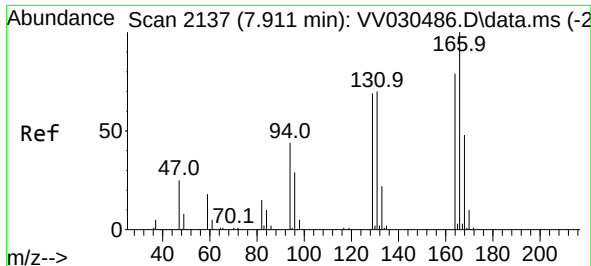
97 100

99 58.7 44.0 81.8

83 94.3 58.8 109.2

85 52.5 37.2 69.0





#47

Tetrachloroethene

Concen: 83.999 ug/L

RT: 7.915 min Scan# 2137

Delta R.T. 0.003 min

Lab File: VV030508.D

Acq: 11 Apr 2023 20:42

Instrument :

MSVOA_V

ClientSampleId :

BHDX6

Tgt Ion:164 Resp: 887732

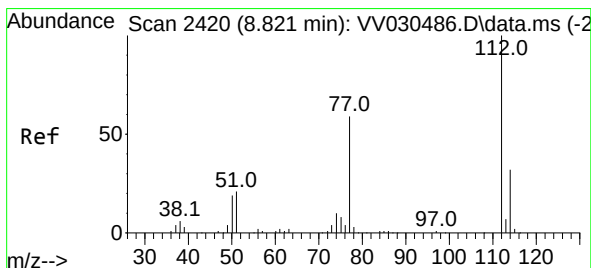
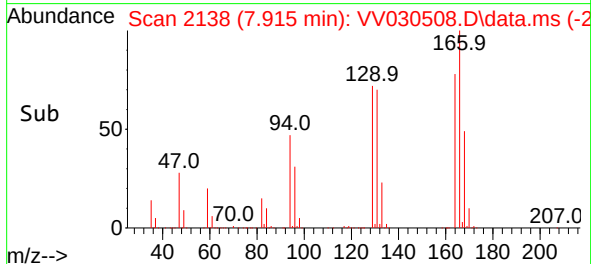
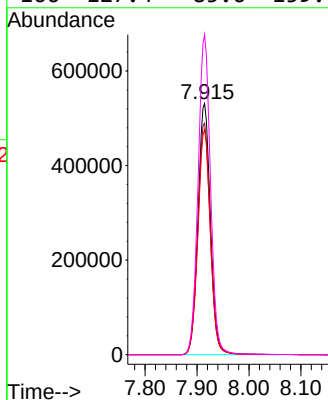
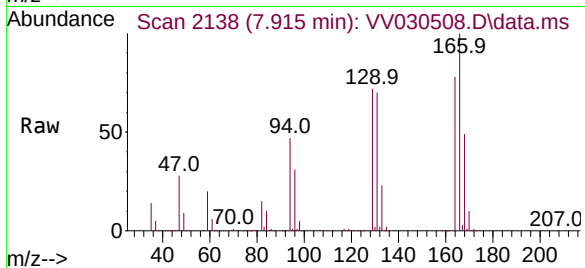
Ion Ratio Lower Upper

164 100

129 92.2 60.8 112.8

131 89.6 61.7 114.7

166 127.4 85.6 159.0



#51

Chlorobenzene

Concen: 0.127 ug/L

RT: 8.825 min Scan# 2421

Delta R.T. 0.003 min

Lab File: VV030508.D

Acq: 11 Apr 2023 20:42

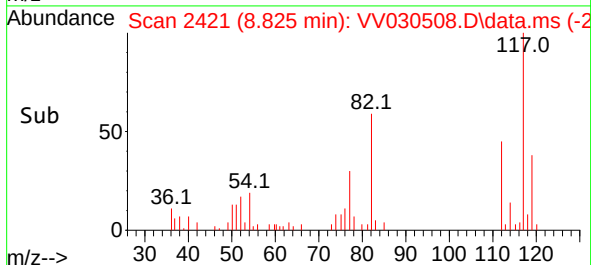
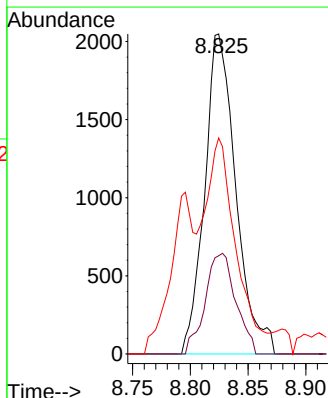
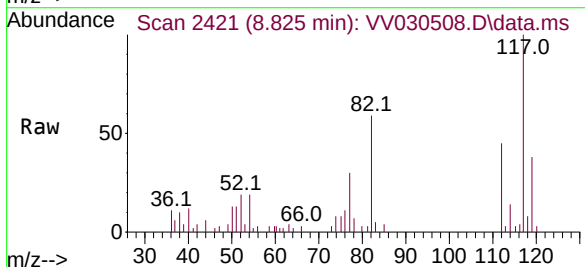
Tgt Ion:112 Resp: 3853

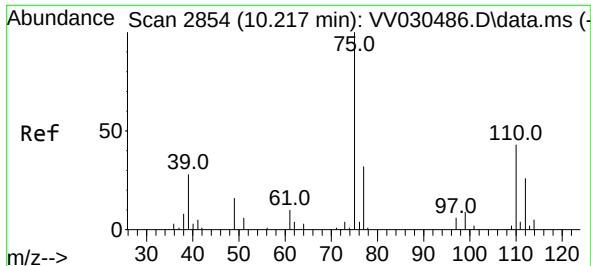
Ion Ratio Lower Upper

112 100

114 30.7 22.4 41.6

77 67.5 45.9 68.9

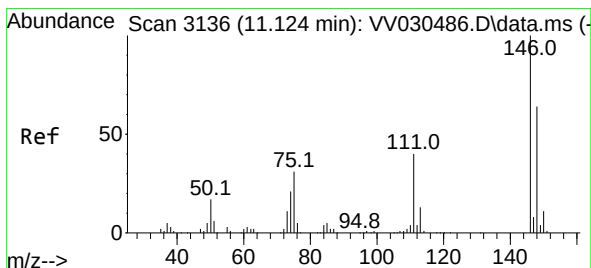
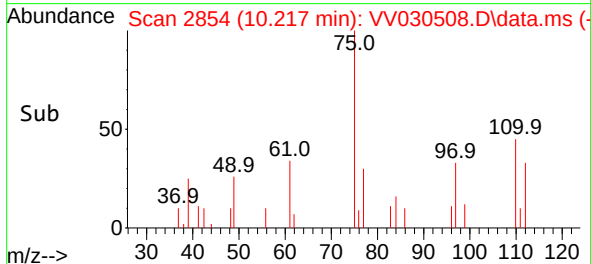
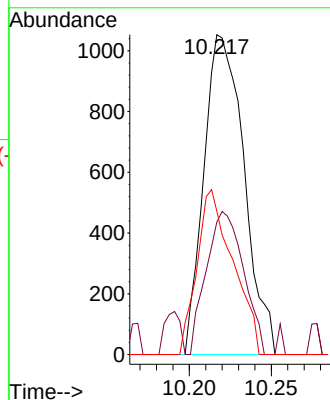
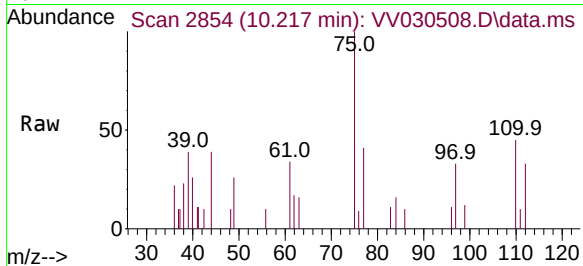




#61
1,2,3-Trichloropropane
Concen: 0.325 ug/L
RT: 10.217 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

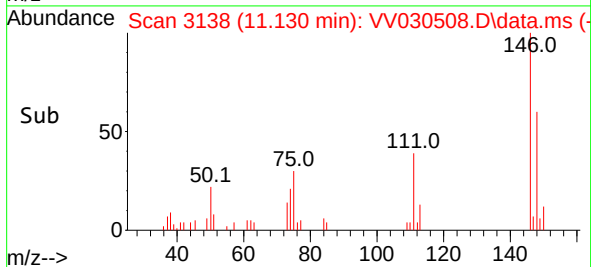
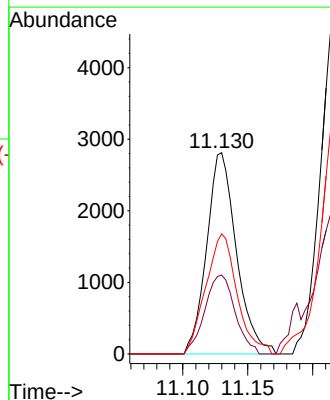
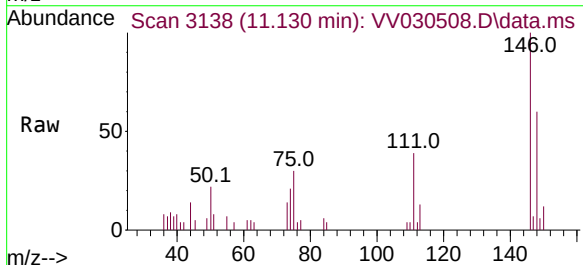
Instrument :
MSVOA_V
ClientSampleId :
BHDx6

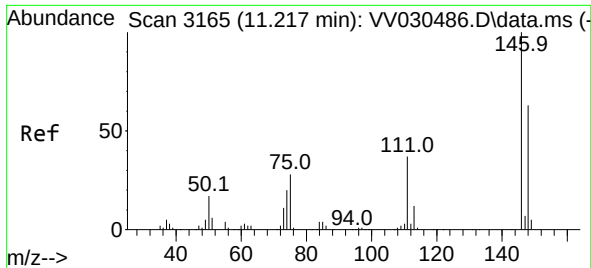
Tgt Ion: 75 Resp: 1788
Ion Ratio Lower Upper
75 100
77 41.7 26.0 39.0#
110 46.2 31.6 47.4



#64
1,3-Dichlorobenzene
Concen: 0.198 ug/L
RT: 11.130 min Scan# 3138
Delta R.T. 0.006 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

Tgt Ion:146 Resp: 4477
Ion Ratio Lower Upper
146 100
111 39.2 27.0 50.2
148 59.7 44.2 82.2

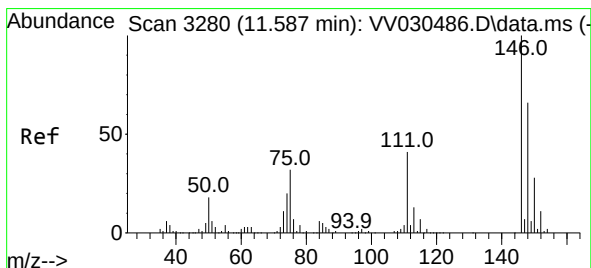
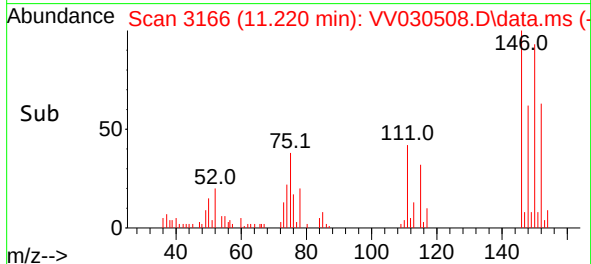
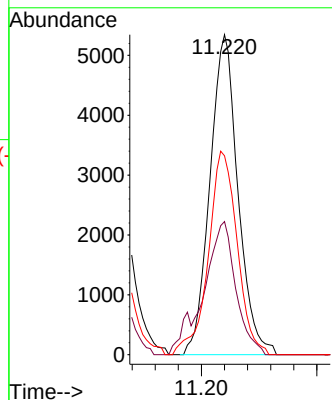
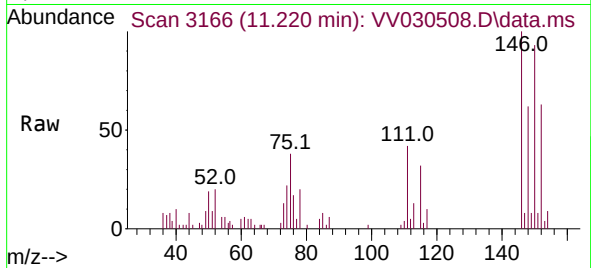




#65
1,4-Dichlorobenzene
Concen: 0.395 ug/L
RT: 11.220 min Scan# 3165
Delta R.T. 0.003 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

Instrument :
MSVOA_V
ClientSampleId :
BHDx6

Tgt Ion:146 Resp: 9007
Ion Ratio Lower Upper
146 100
111 41.6 26.0 48.4
148 62.2 45.2 84.0



#67
1,2-Dichlorobenzene
Concen: 0.342 ug/L
RT: 11.586 min Scan# 3280
Delta R.T. -0.000 min
Lab File: VV030508.D
Acq: 11 Apr 2023 20:42

Tgt Ion:146 Resp: 6962
Ion Ratio Lower Upper
146 100
111 38.2 33.1 49.7
148 66.9 52.2 78.2

