

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041123\
 Data File : VW030506.D
 Acq On : 11 Apr 2023 19:53
 Operator : SY/MD
 Sample : 02250-03
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHDx4

Quant Time: Apr 12 05:05:24 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	111392	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	110670	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	55345	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	23447	3.178	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	63.600%
7) Chloroethane-d5	1.535	69	27136	3.790	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.800%
11) 1,1-Dichloroethene-d2	2.069	63	104805	5.987	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	119.800%
20) 2-Butanone-d5	3.831	46	82887	43.467	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	86.940%
24) Chloroform-d	4.262	84	77690	4.351	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.000%
26) 1,2-Dichloroethane-d4	4.953	65	40219	4.774	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.400%
32) Benzene-d6	4.969	84	126173	4.046	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.000%
36) 1,2-Dichloropropane-d6	5.998	67	43893	4.496	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.000%
41) Toluene-d8	7.252	98	107760	3.763	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.200%
43) trans-1,3-Dichloroprop...	7.561	79	13912	3.784	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.600%
46) 2-Hexanone-d5	8.037	63	68884	46.633	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.260%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	33665	4.375	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.400%
66) 1,2-Dichlorobenzene-d4	11.570	152	52315	5.289	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.800%
Target Compounds						Qvalue
3) Chloromethane	1.217	50	5688	0.318	ug/L	97
5) Vinyl chloride	1.285	62	7103	0.545	ug/L #	1
6) Bromomethane	1.500	94	648	0.174	ug/L	73
8) Chloroethane	1.552	64	1611	0.216	ug/L #	56
12) 1,1-Dichloroethene	2.072	96	106025	11.392	ug/L #	79
13) Acetone	2.175	43	3928	2.154	ug/L	82
14) Carbon disulfide	2.246	76	52015	1.697	ug/L	99
16) Methylene chloride	2.455	84	7901	0.718	ug/L	95
18) trans-1,2-Dichloroethene	2.703	96	1407	0.143	ug/L	81
19) 1,1-Dichloroethane	3.121	63	76881	4.045	ug/L	98
22) cis-1,2-Dichloroethene	3.825	96	108789	11.055	ug/L	98
25) Chloroform	4.288	83	35135	1.829	ug/L	94
27) 1,2-Dichloroethane	5.056	62	21067	1.814	ug/L	99
29) 1,1,1-Trichloroethane	4.519	97	4658	0.262	ug/L #	91
33) Benzene	5.021	78	46463	1.182	ug/L	100
34) Trichloroethene	5.841	95	1469137	138.581	ug/L	98
35) Methylcyclohexane	5.998	83	10997	0.661	ug/L #	16
37) 1,2-Dichloropropane	6.111	63	2015	0.200	ug/L #	95
39) cis-1,3-Dichloropropene	6.928	75	1318	0.093	ug/L	98

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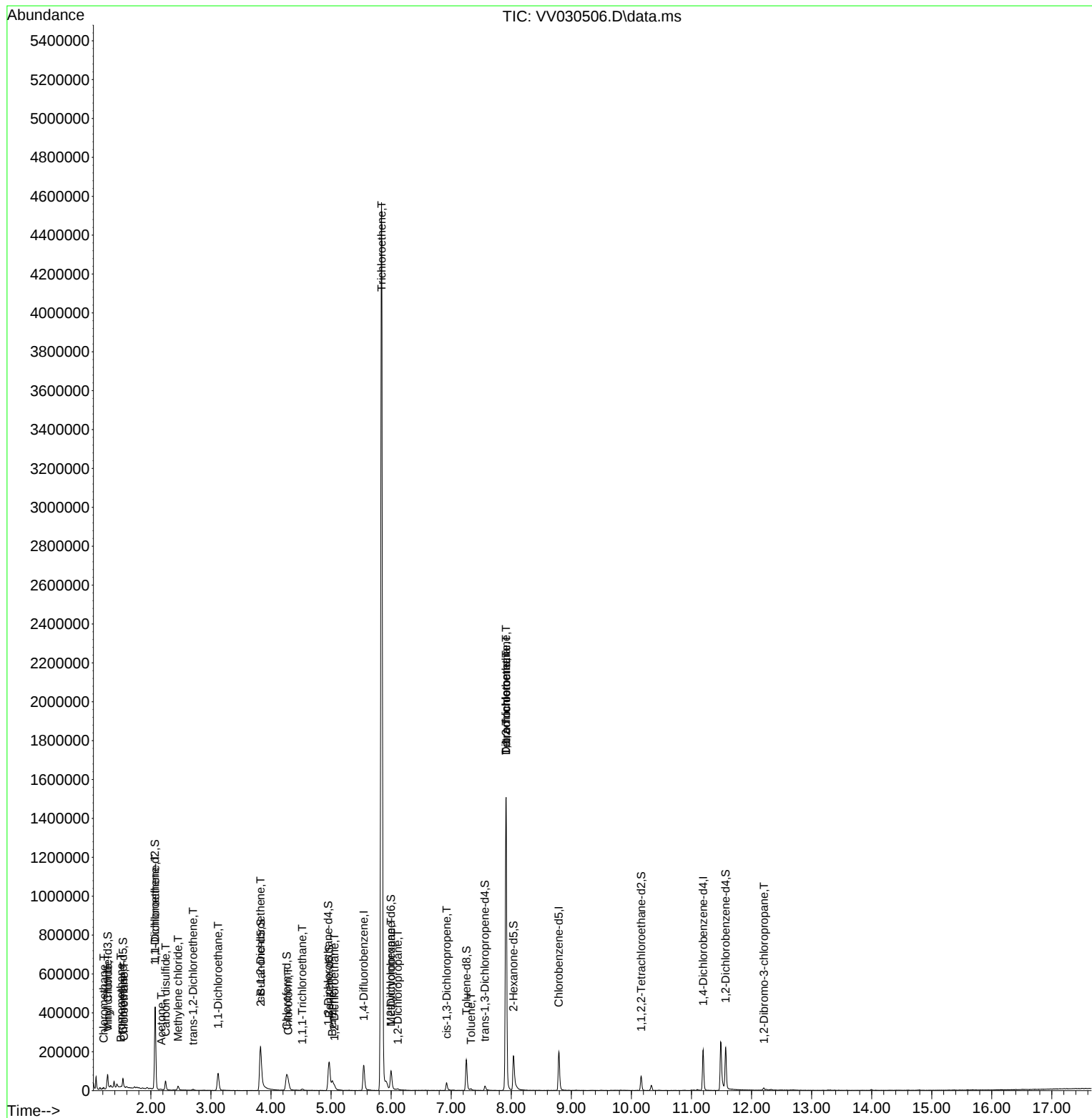
Instrument :
MSVOA_V
ClientSampleId :
BHD4

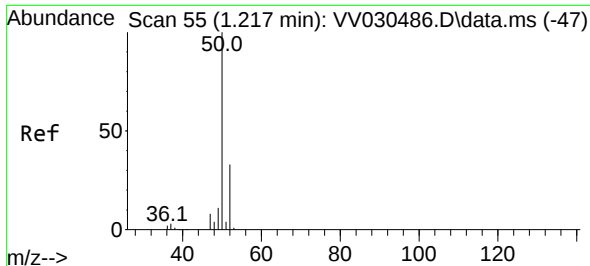
Quant Time: Apr 12 05:05:24 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Apr 12 05:00:18 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.329	91	4053	0.097	ug/L	98
45) 1,1,2-Trichloroethane	7.911	97	3178	0.447	ug/L #	15
47) Tetrachloroethene	7.911	164	327256	34.978	ug/L	97
49) Dibromochloromethane	7.911	129	286988	33.931	ug/L #	12
68) 1,2-Dibromo-3-chloropr...	12.207	75	479	0.389	ug/L #	3

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

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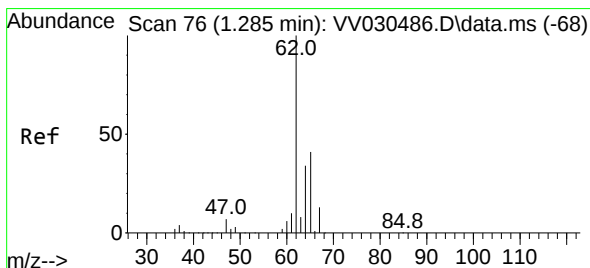
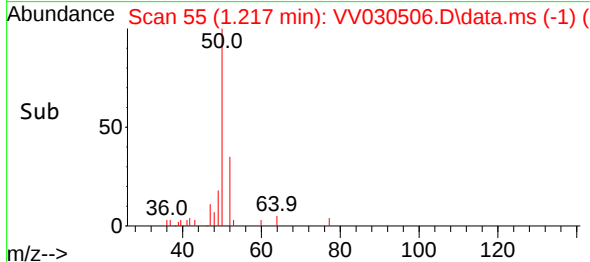
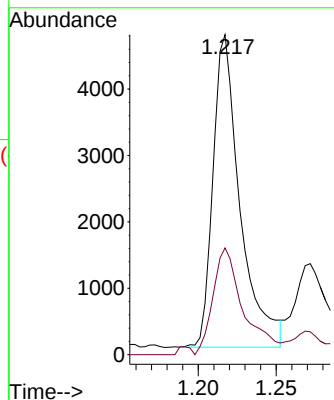
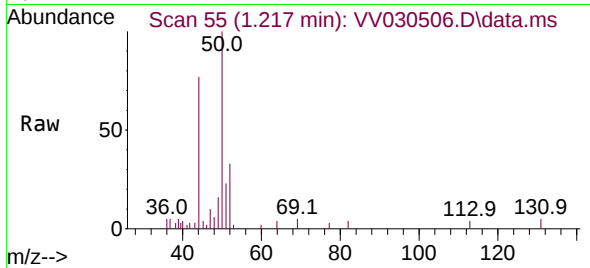




#3
Chloromethane
Concen: 0.318 ug/L
RT: 1.217 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

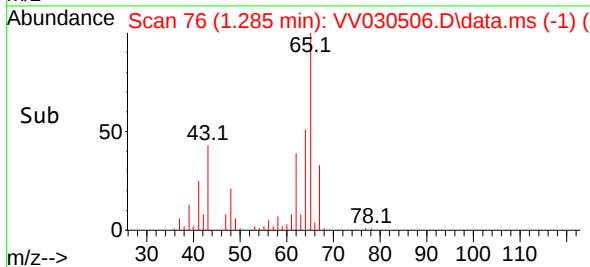
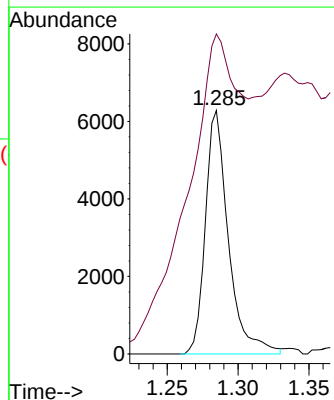
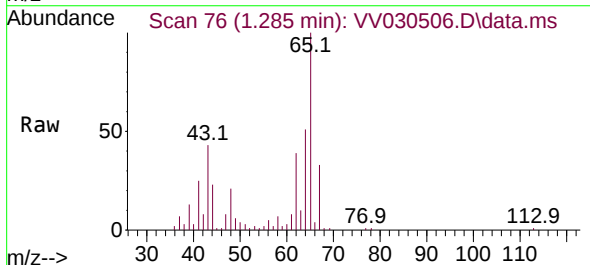
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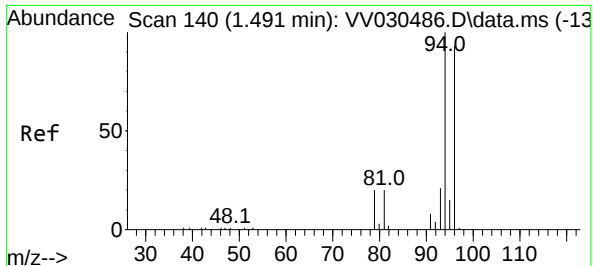
Tgt Ion: 50 Resp: 5688
Ion Ratio Lower Upper
50 100
52 33.4 22.3 41.5



#5
Vinyl chloride
Concen: 0.545 ug/L
RT: 1.285 min Scan# 76
Delta R.T. -0.000 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

Tgt Ion: 62 Resp: 7103
Ion Ratio Lower Upper
62 100
64 131.4 23.2 43.2#

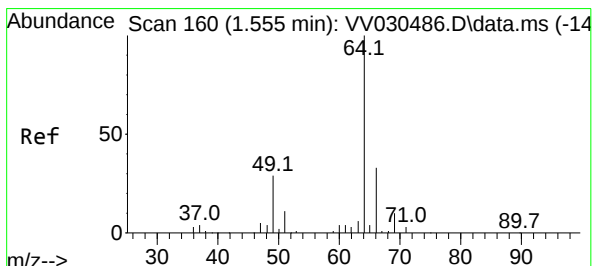
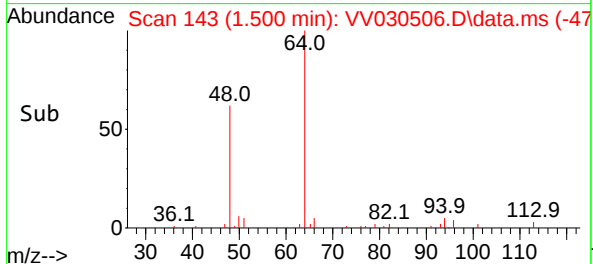
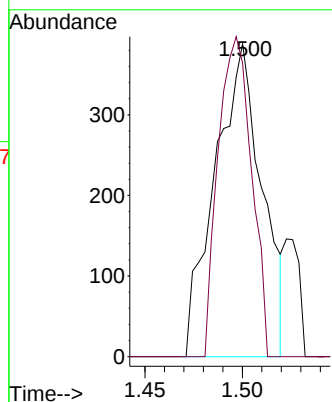
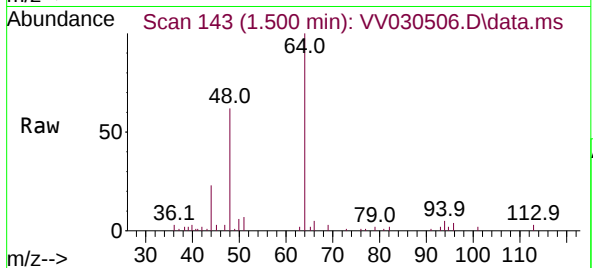




#6
Bromomethane
Concen: 0.174 ug/L
RT: 1.500 min Scan# 14
Delta R.T. 0.010 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

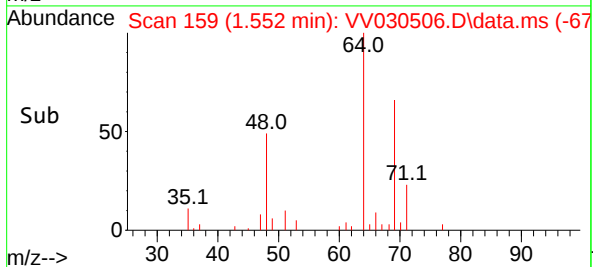
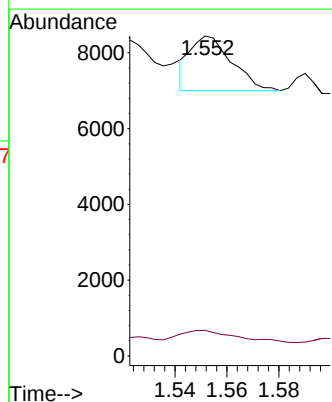
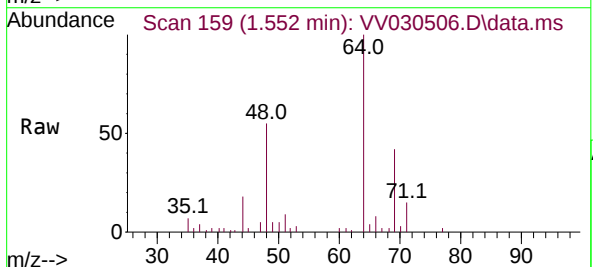
Instrument :
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ClientSampleId :
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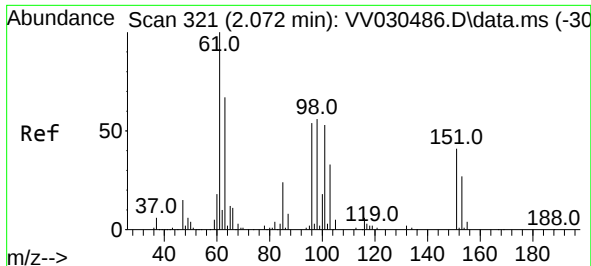
Tgt Ion: 94 Resp: 648
Ion Ratio Lower Upper
94 100
96 68.0 66.1 122.7



#8
Chloroethane
Concen: 0.216 ug/L
RT: 1.552 min Scan# 159
Delta R.T. -0.003 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

Tgt Ion: 64 Resp: 1611
Ion Ratio Lower Upper
64 100
66 8.0 23.0 42.8#

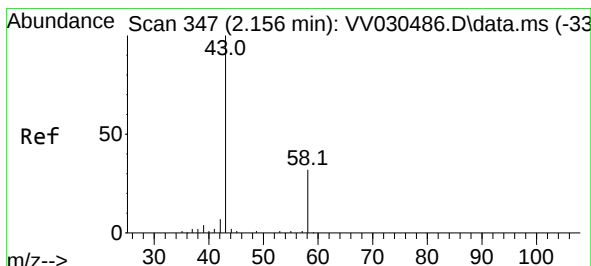
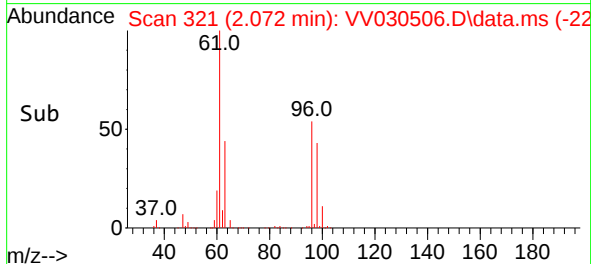
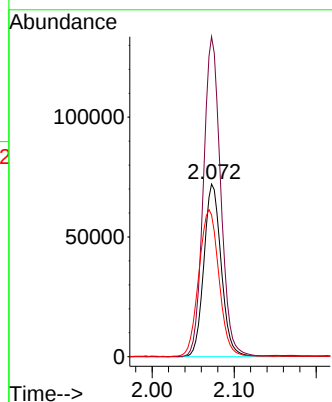
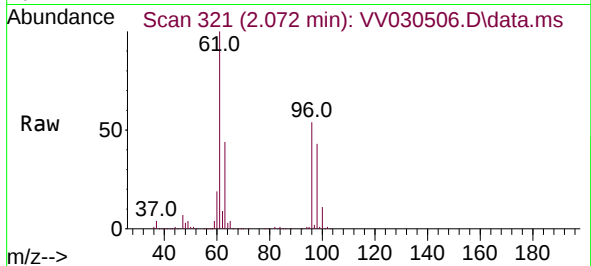




#12
1,1-Dichloroethene
Concen: 11.392 ug/L
RT: 2.072 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

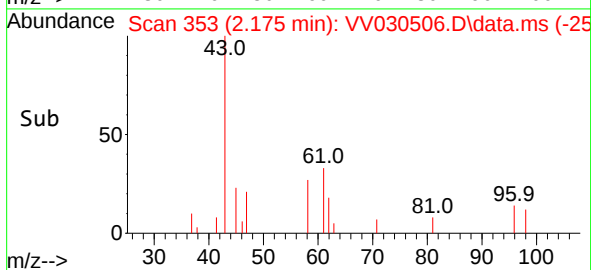
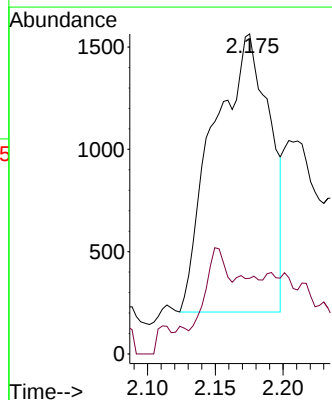
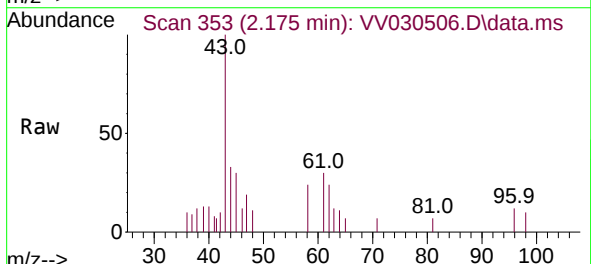
Instrument :
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ClientSampleId :
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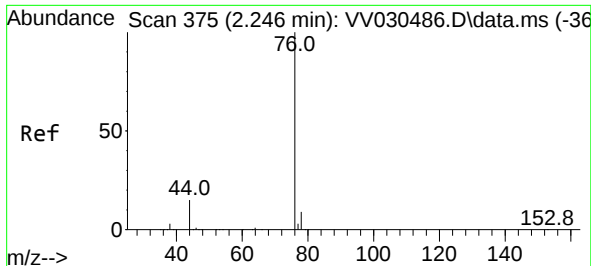
Tgt Ion: 96 Resp: 106025
Ion Ratio Lower Upper
96 100
61 185.3 136.3 253.1
63 82.1 92.1 171.1#



#13
Acetone
Concen: 2.154 ug/L
RT: 2.175 min Scan# 353
Delta R.T. 0.019 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

Tgt Ion: 43 Resp: 3928
Ion Ratio Lower Upper
43 100
58 12.3 0.0 40.8

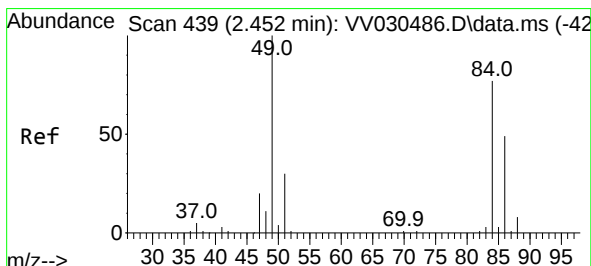
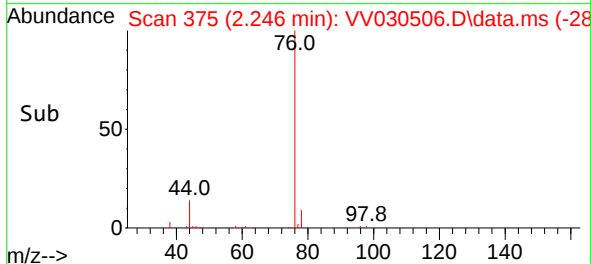
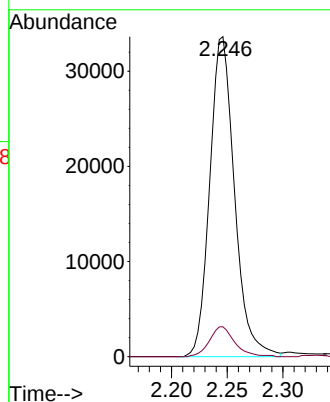
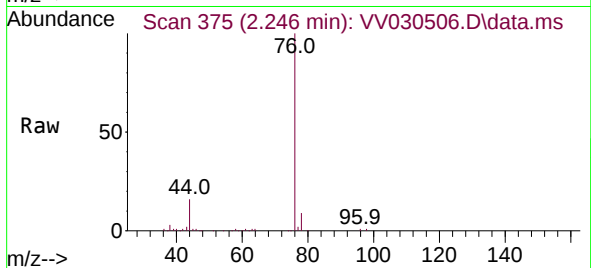




#14
Carbon disulfide
Concen: 1.697 ug/L
RT: 2.246 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

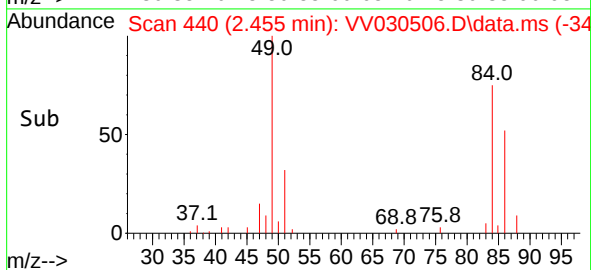
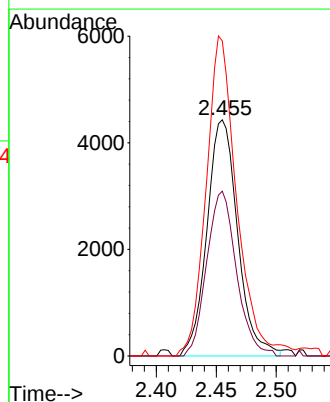
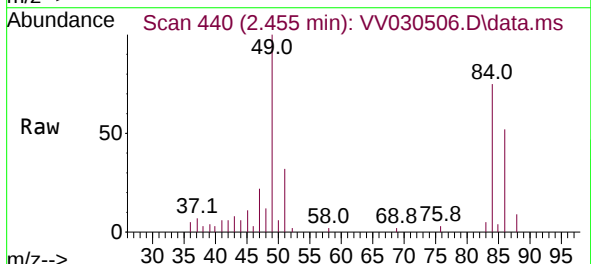
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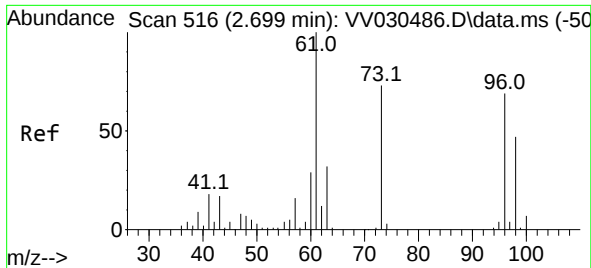
Tgt Ion: 76 Resp: 52015
Ion Ratio Lower Upper
76 100
78 9.4 7.3 10.9



#16
Methylene chloride
Concen: 0.718 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.003 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

Tgt Ion: 84 Resp: 7901
Ion Ratio Lower Upper
84 100
86 69.8 44.0 81.6
49 133.4 90.6 168.3

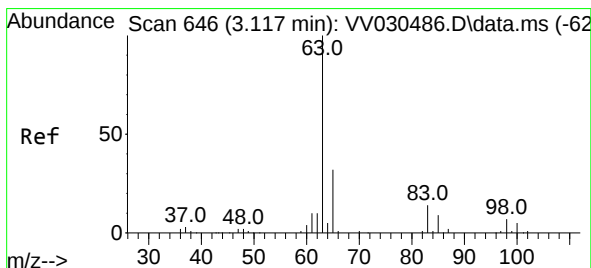
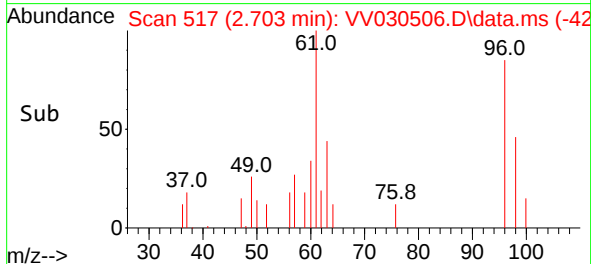
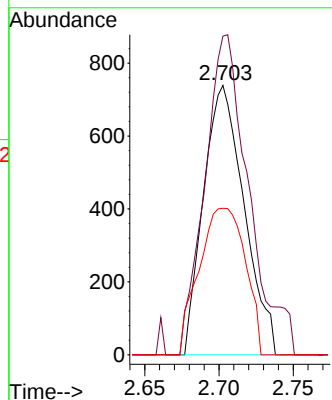
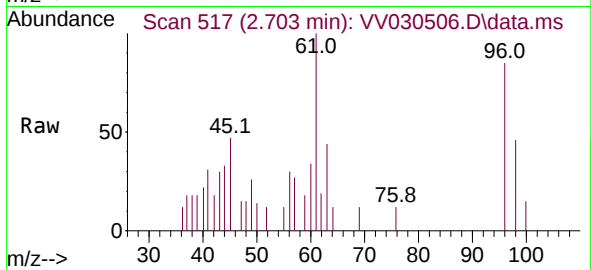




#18
trans-1,2-Dichloroethene
Concen: 0.143 ug/L
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

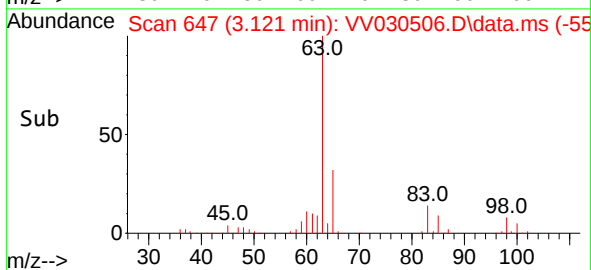
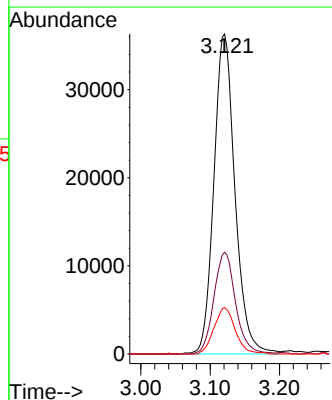
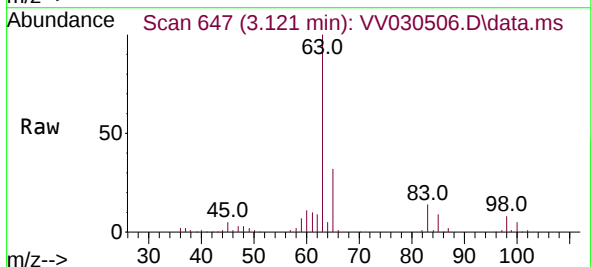
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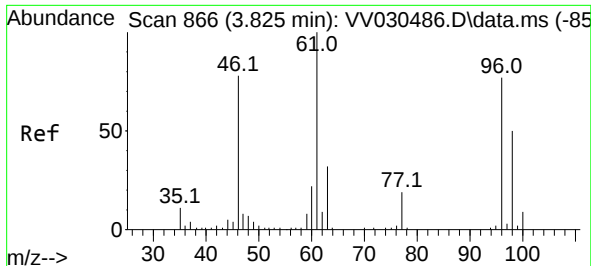
Tgt Ion: 96 Resp: 1407
Ion Ratio Lower Upper
96 100
61 118.3 101.7 188.9
98 54.4 45.8 85.2



#19
1,1-Dichloroethane
Concen: 4.045 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

Tgt Ion: 63 Resp: 76881
Ion Ratio Lower Upper
63 100
65 31.8 21.7 40.3
83 14.5 9.1 16.9





#22

cis-1,2-Dichloroethene

Concen: 11.055 ug/L

RT: 3.825 min Scan# 8

Delta R.T. -0.000 min

Lab File: VV030506.D

Acq: 11 Apr 2023 19:53

Instrument :

MSVOA_V

ClientSampleId :

BHDX4

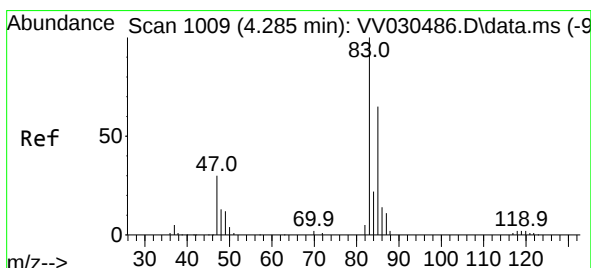
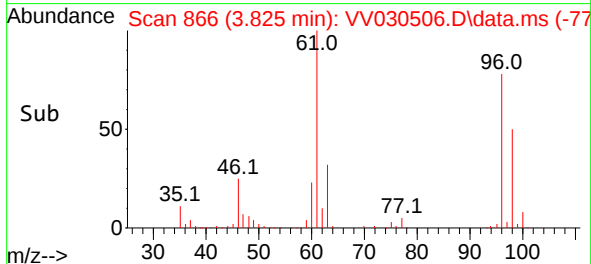
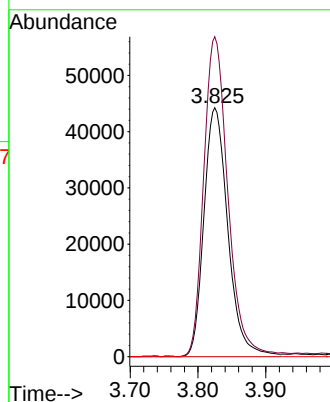
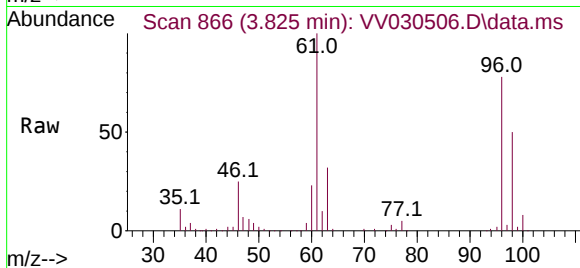
Tgt Ion: 96 Resp: 108789

Ion Ratio Lower Upper

96 100

61 128.6 92.0 170.8

68 0.0 0.0 0.0



#25

Chloroform

Concen: 1.829 ug/L

RT: 4.288 min Scan# 1010

Delta R.T. 0.003 min

Lab File: VV030506.D

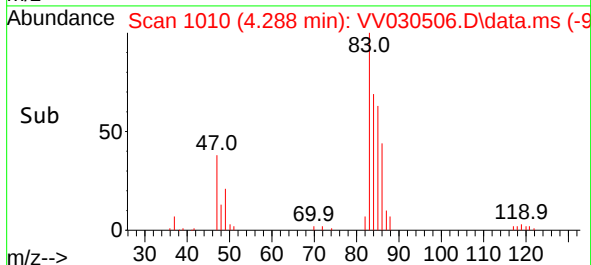
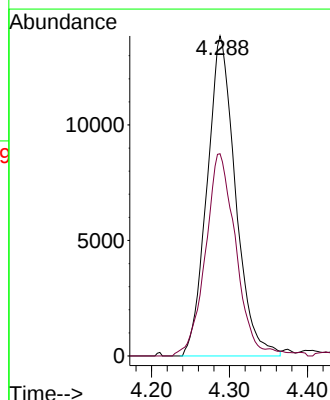
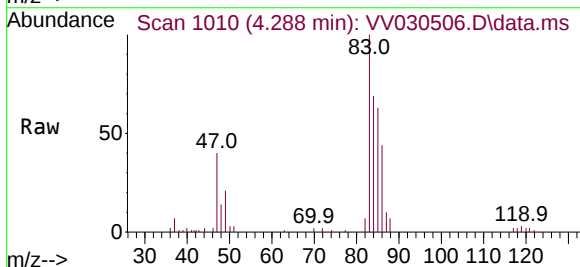
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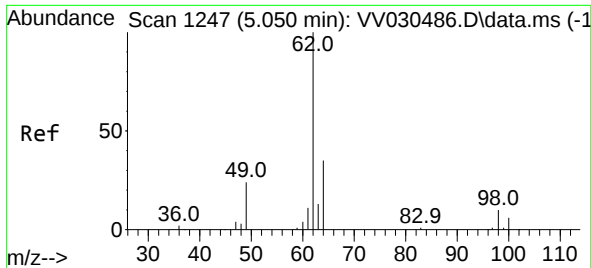
Tgt Ion: 83 Resp: 35135

Ion Ratio Lower Upper

83 100

85 63.2 47.6 88.4





#27

1,2-Dichloroethane

Concen: 1.814 ug/L

RT: 5.056 min Scan# 11

Delta R.T. 0.006 min

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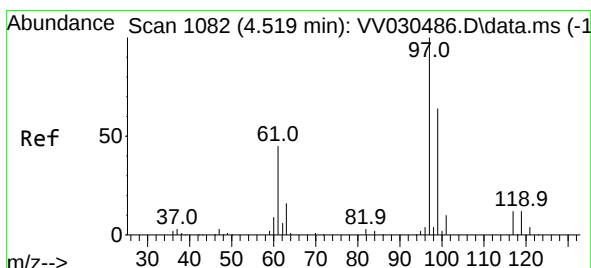
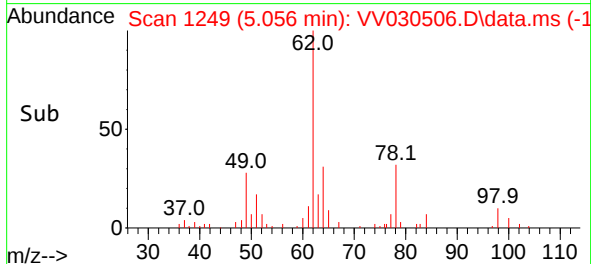
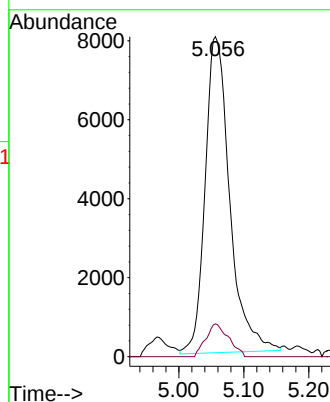
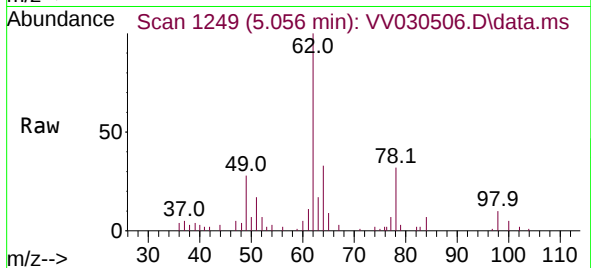
BHDX4

Tgt Ion: 62 Resp: 21067

Ion Ratio Lower Upper

62 100

98 10.2 7.8 11.8



#29

1,1,1-Trichloroethane

Concen: 0.262 ug/L

RT: 4.519 min Scan# 1082

Delta R.T. -0.000 min

Lab File: VV030506.D

Acq: 11 Apr 2023 19:53

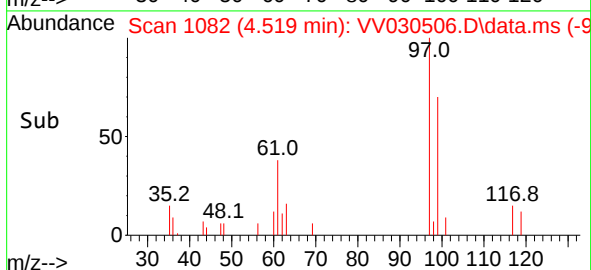
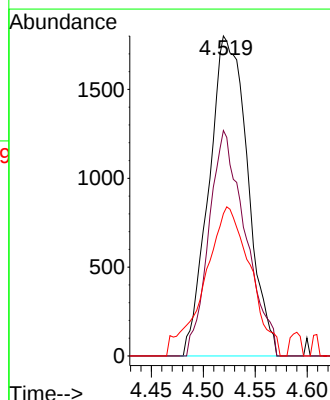
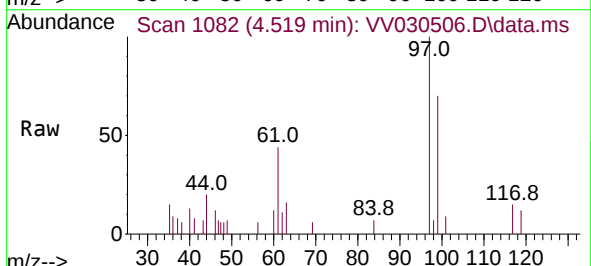
Tgt Ion: 97 Resp: 4658

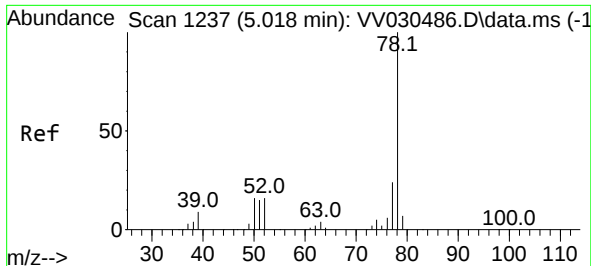
Ion Ratio Lower Upper

97 100

99 66.6 50.9 76.3

61 55.0 35.9 53.9#

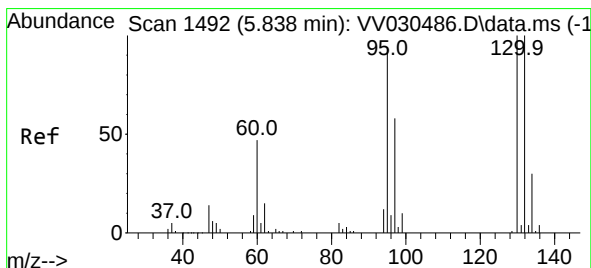
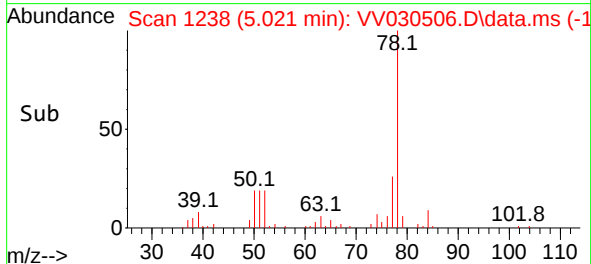
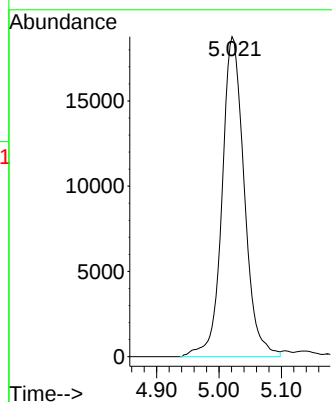
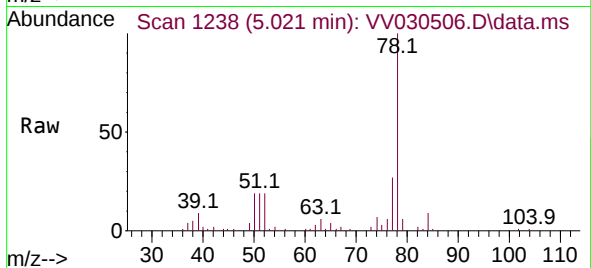




#33
Benzene
Concen: 1.182 ug/L
RT: 5.021 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

Instrument :
MSVOA_V
ClientSampleId :
BHD4

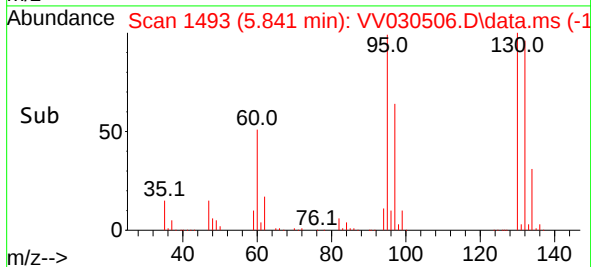
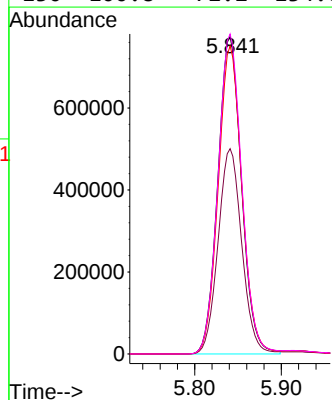
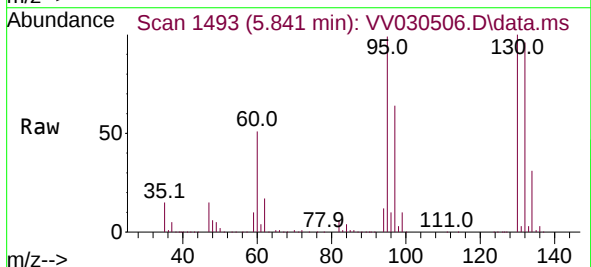
Tgt Ion: 78 Resp: 46463

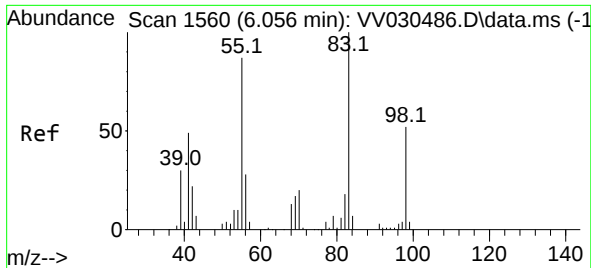


#34
Trichloroethene
Concen: 138.581 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. 0.003 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

Tgt Ion: 95 Resp: 1469137

Ion	Ratio	Lower	Upper
95	100		
97	64.7	44.2	82.2
132	97.1	69.5	129.1
130	100.8	72.2	134.0

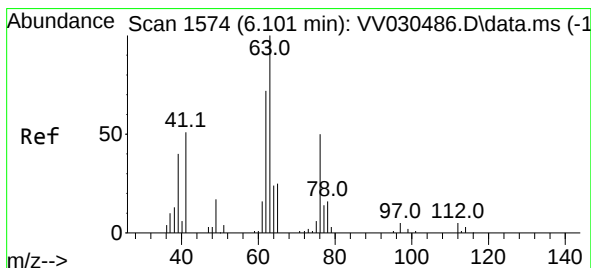
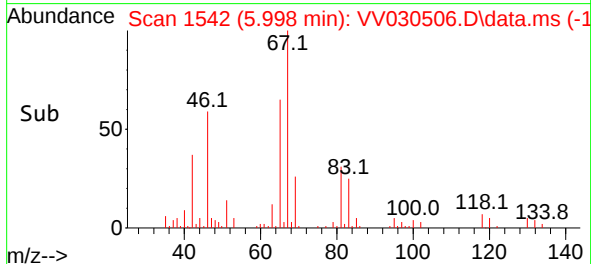
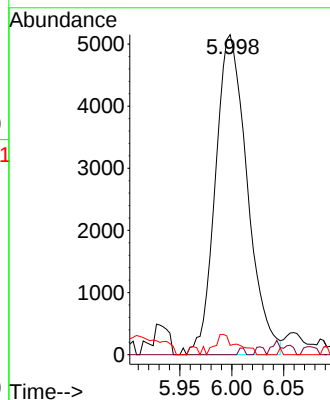
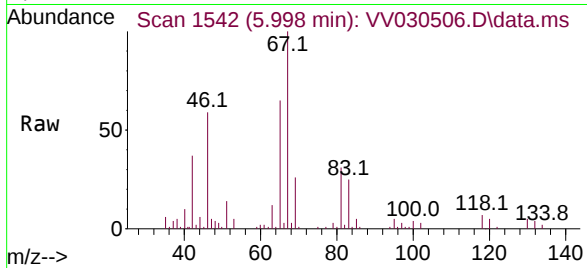




#35
Methylcyclohexane
Concen: 0.661 ug/L
RT: 5.998 min Scan# 11
Delta R.T. -0.058 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

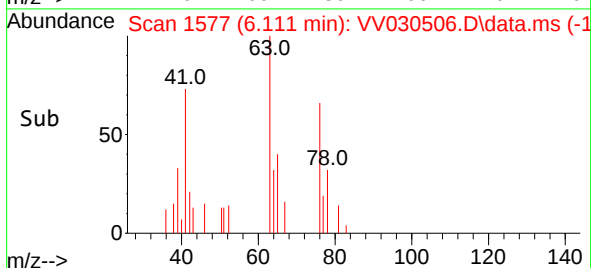
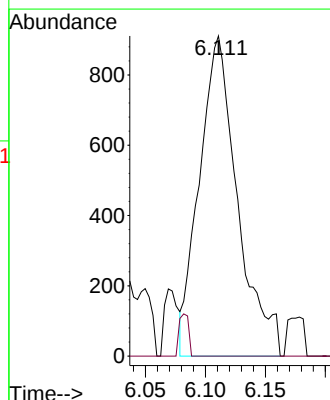
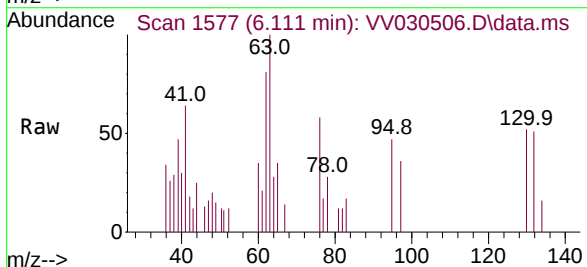
Instrument :
MSVOA_V
ClientSampleId :
BHDx4

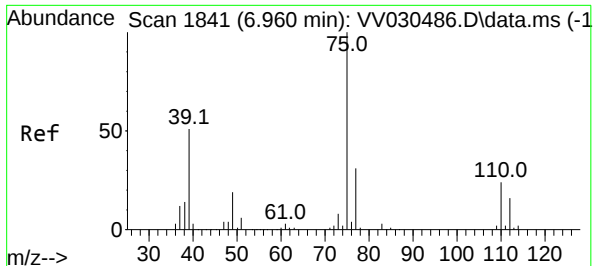
Tgt Ion: 83 Resp: 10997
Ion Ratio Lower Upper
83 100
55 0.4 66.6 100.0#
98 0.0 38.6 58.0#



#37
1,2-Dichloropropane
Concen: 0.200 ug/L
RT: 6.111 min Scan# 1577
Delta R.T. 0.010 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

Tgt Ion: 63 Resp: 2015
Ion Ratio Lower Upper
63 100
112 3.3 3.9 5.9#





#39

cis-1,3-Dichloropropene

Concen: 0.093 ug/L

RT: 6.928 min Scan# 1831

Delta R.T. -0.032 min

Lab File: VV030506.D

Acq: 11 Apr 2023 19:53

Instrument :

MSVOA_V

ClientSampleId :

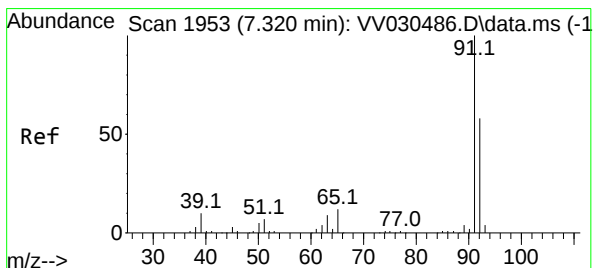
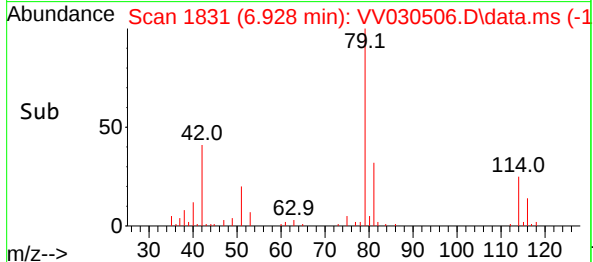
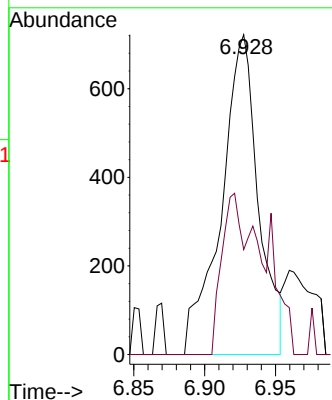
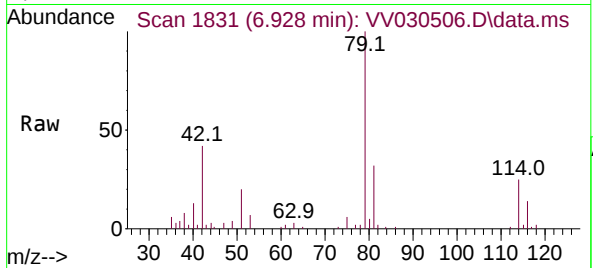
BHDX4

Tgt Ion: 75 Resp: 1318

Ion Ratio Lower Upper

75 100

77 32.8 22.0 41.0



#42

Toluene

Concen: 0.097 ug/L

RT: 7.329 min Scan# 1956

Delta R.T. 0.010 min

Lab File: VV030506.D

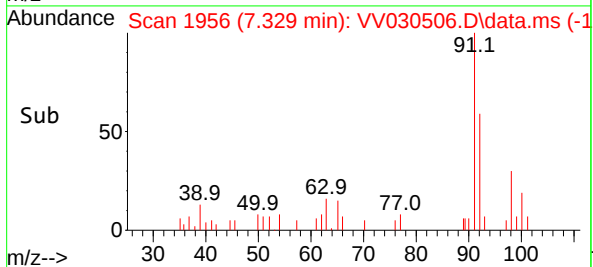
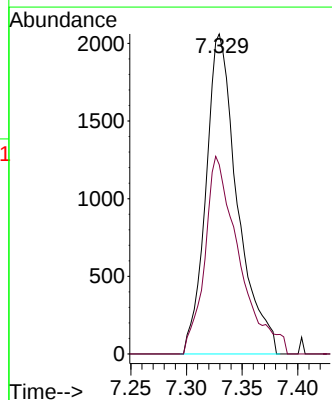
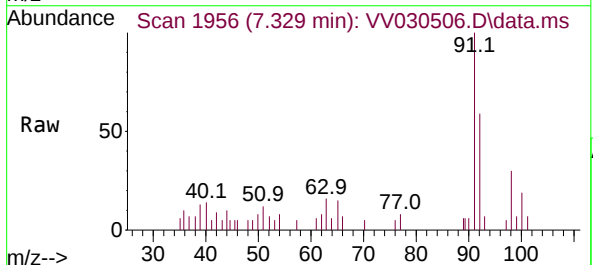
Acq: 11 Apr 2023 19:53

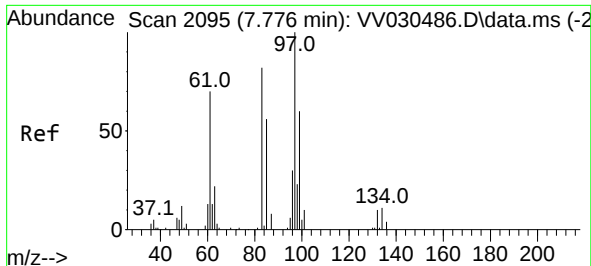
Tgt Ion: 91 Resp: 4053

Ion Ratio Lower Upper

91 100

92 59.1 40.4 75.0

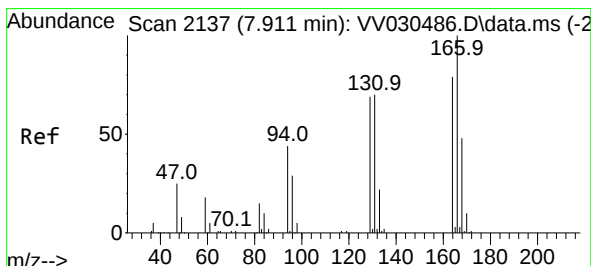
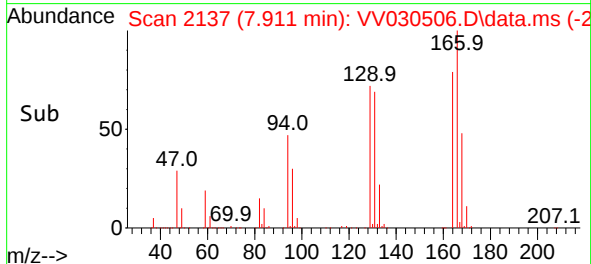
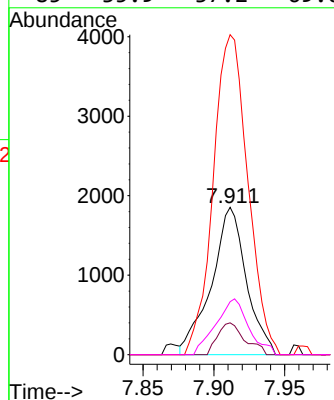
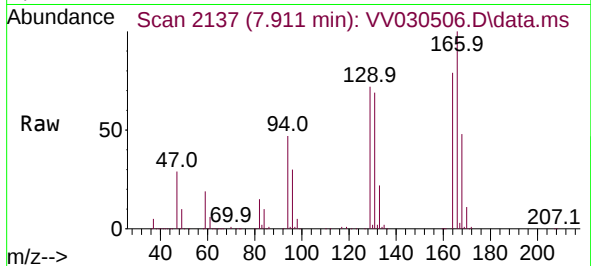




#45
1,1,2-Trichloroethane
Concen: 0.447 ug/L
RT: 7.911 min Scan# 2137
Delta R.T. 0.135 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

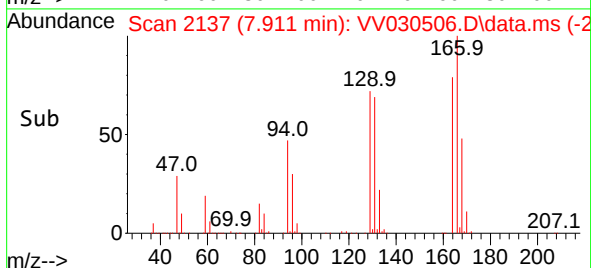
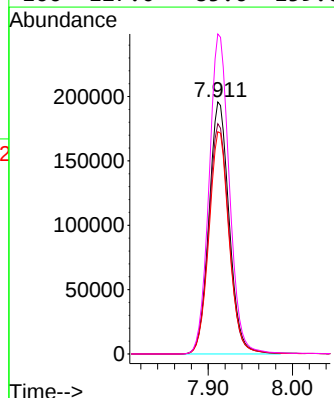
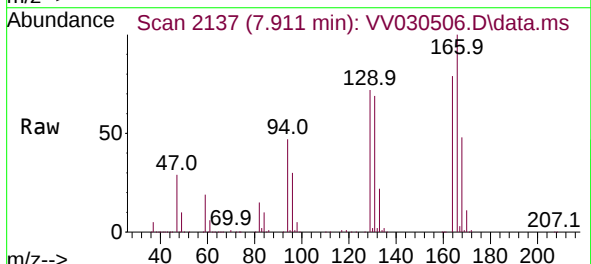
Instrument :
MSVOA_V
ClientSampleId :
BHD4

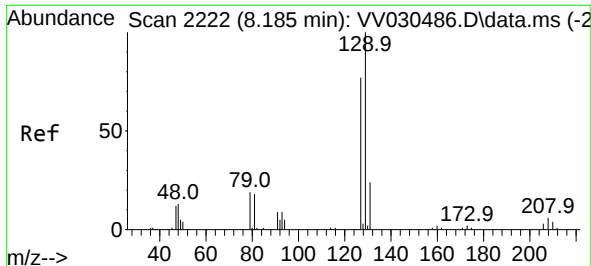
Tgt Ion: 97	Resp: 3178
Ion Ratio	Lower Upper
97 100	
99 21.6	44.0 81.8#
83 217.3	58.8 109.2#
85 35.9	37.2 69.0#



#47
Tetrachloroethene
Concen: 34.978 ug/L
RT: 7.911 min Scan# 2137
Delta R.T. -0.000 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

Tgt Ion: 164	Resp: 327256
Ion Ratio	Lower Upper
164 100	
129 91.4	60.8 112.8
131 88.2	61.7 114.7
166 127.0	85.6 159.0

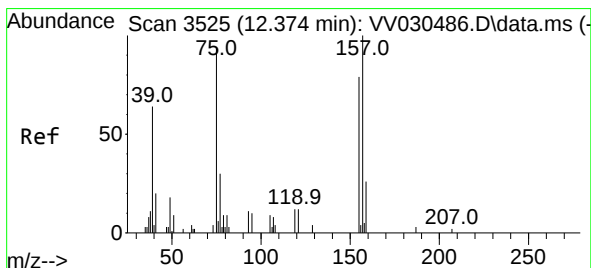
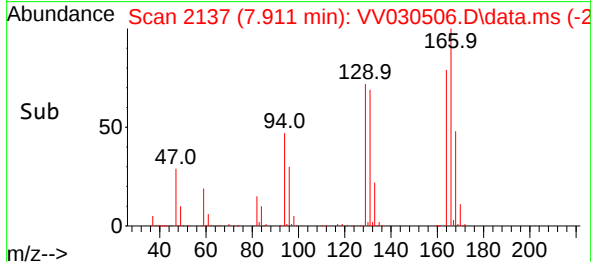
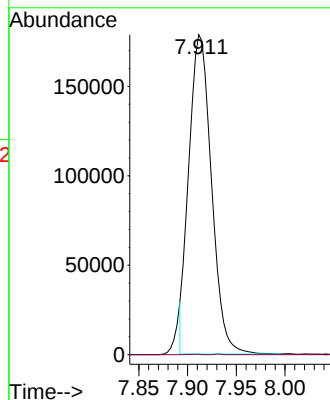
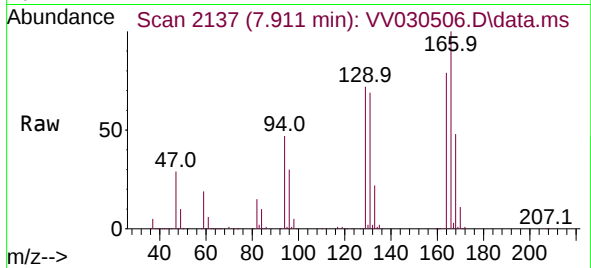




#49
Dibromochloromethane
Concen: 33.931 ug/L
RT: 7.911 min Scan# 2137
Delta R.T. -0.273 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

Instrument :
MSVOA_V
ClientSampleId :
BHD4

Tgt Ion:129 Resp: 286988
Ion Ratio Lower Upper
129 100
127 0.2 52.7 97.9#



#68
1,2-Dibromo-3-chloropropane
Concen: 0.389 ug/L
RT: 12.207 min Scan# 3473
Delta R.T. -0.167 min
Lab File: VV030506.D
Acq: 11 Apr 2023 19:53

Tgt Ion: 75 Resp: 479
Ion Ratio Lower Upper
75 100
155 0.0 64.6 96.8#
157 0.0 83.8 125.6#

