

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW040623\
 Data File : VW030414.D
 Acq On : 06 Apr 2023 13:47
 Operator : SY/MD
 Sample : 02194-11
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHDW8

Quant Time: Apr 07 04:50:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 31 05:37:21 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	142957	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	138551	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	70269	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	24097	2.545	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	51.000%
7) Chloroethane-d5	1.536	69	29911	3.255	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	65.200%
11) 1,1-Dichloroethene-d2	2.076	63	610444	27.171	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	543.400%#
20) 2-Butanone-d5	3.806	46	127986	52.298	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.600%
24) Chloroform-d	4.262	84	89558	3.908	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.200%
26) 1,2-Dichloroethane-d4	4.957	65	46083	4.262	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.200%
32) Benzene-d6	4.973	84	147870	3.787	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.800%
36) 1,2-Dichloropropane-d6	5.998	67	50564	4.137	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	82.800%
41) Toluene-d8	7.252	98	117495	3.277	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	65.600%#
43) trans-1,3-Dichloroprop...	7.564	79	16213	3.523	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	70.400%
46) 2-Hexanone-d5	8.034	63	89927	48.628	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.260%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	39010	4.049	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.000%
66) 1,2-Dichlorobenzene-d4	11.571	152	52486	4.179	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	3139	0.137	ug/L	95
5) Vinyl chloride	1.285	62	51452	3.078	ug/L	100
6) Bromomethane	1.494	94	692	0.145	ug/L	91
8) Chloroethane	1.285	64	16368	1.709	ug/L #	47
10) 1,1,2-Trichloro-1,2,2-...	2.076	101	3011	0.224	ug/L #	48
12) 1,1-Dichloroethene	2.076	96	962997	80.621	ug/L #	70
14) Carbon disulfide	2.249	76	3857	0.098	ug/L #	86
16) Methylene chloride	2.455	84	4932	0.349	ug/L	100
17) Methyl tert-butyl Ether	2.716	73	19163	0.757	ug/L #	88
18) trans-1,2-Dichloroethene	2.703	96	6185	0.492	ug/L	95
19) 1,1-Dichloroethane	3.121	63	216424	8.872	ug/L	99
22) cis-1,2-Dichloroethene	3.822	96	1524805	120.738	ug/L	98
25) Chloroform	4.285	83	15347	0.623	ug/L	94
27) 1,2-Dichloroethane	5.063	62	12932	0.868	ug/L	96
29) 1,1,1-Trichloroethane	4.523	97	475439	21.350	ug/L	99
31) Carbon tetrachloride	4.523	117	58599	2.900	ug/L	98
34) Trichloroethene	5.841	95	590093	44.461	ug/L	99
35) Methylcyclohexane	5.998	83	12725	0.611	ug/L #	16
37) 1,2-Dichloropropane	6.105	63	3952	0.313	ug/L #	90

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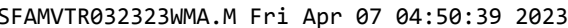
Instrument :
 MSVOA_V
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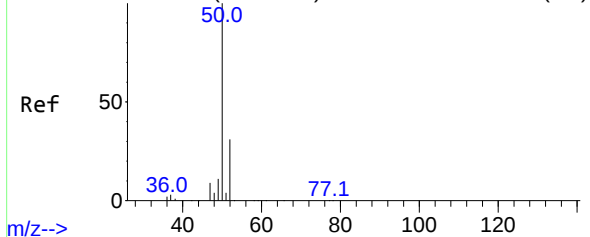
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	7.786	97	1494	0.168	ug/L	89
47) Tetrachloroethene	7.918	164	2861763	244.318	ug/L	95
49) Dibromochloromethane	7.918	129	2584020	244.033	ug/L #	12
51) Chlorobenzene	8.825	112	3068	0.091	ug/L	98
65) 1,4-Dichlorobenzene	11.217	146	5040	0.194	ug/L	94

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

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Response via : Initial Calibration



Abundance Scan 54 (1.214 min): VV030407.D\data.ms (-46)



#3

Chloromethane

Concen: 0.137 ug/L

RT: 1.217 min Scan# 51

Delta R.T. 0.000 min

Lab File: VV030414.D

Acq: 06 Apr 2023 13:47

Instrument :

MSVOA_V

ClientSampleId :

BHDW8

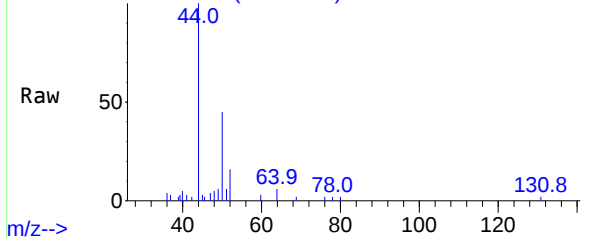
Tgt Ion: 50 Resp: 3139

Ion Ratio Lower Upper

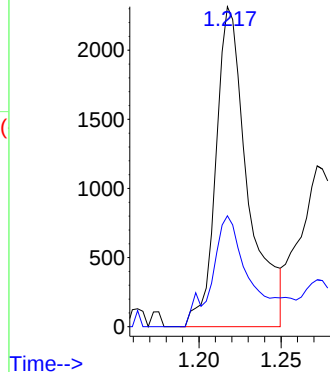
50 100

52 34.7 22.3 41.5

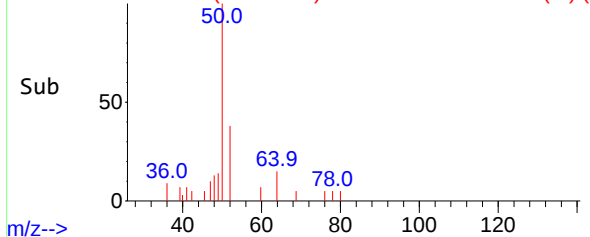
Abundance Scan 55 (1.217 min): VV030414.D\data.ms



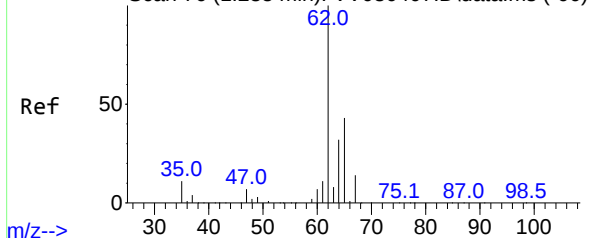
Abundance



Abundance Scan 55 (1.217 min): VV030414.D\data.ms (-1) (



Abundance Scan 76 (1.285 min): VV030407.D\data.ms (-66)



#5

Vinyl chloride

Concen: 3.078 ug/L

RT: 1.285 min Scan# 76

Delta R.T. 0.000 min

Lab File: VV030414.D

Acq: 06 Apr 2023 13:47

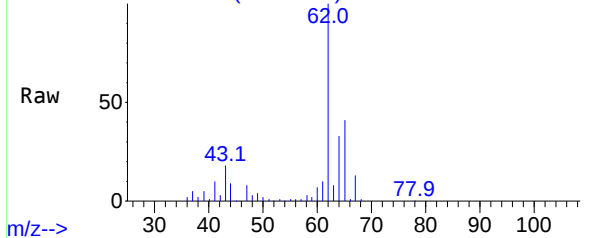
Tgt Ion: 62 Resp: 51452

Ion Ratio Lower Upper

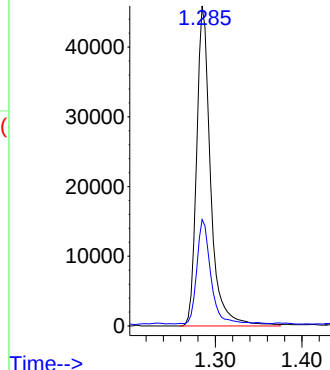
62 100

64 33.2 23.2 43.2

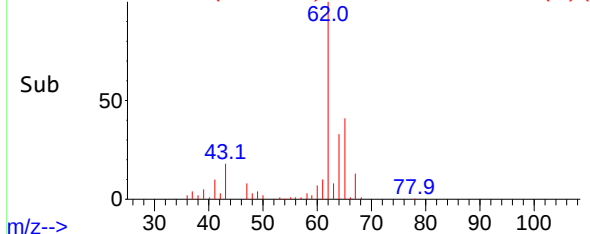
Abundance Scan 76 (1.285 min): VV030414.D\data.ms

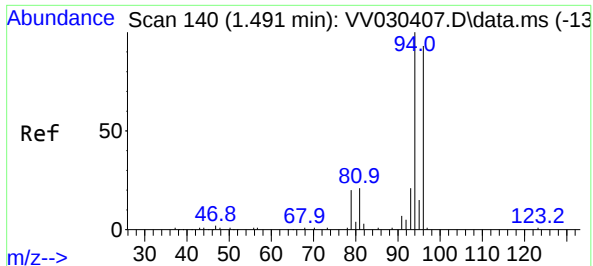


Abundance



Abundance Scan 76 (1.285 min): VV030414.D\data.ms (-1) (

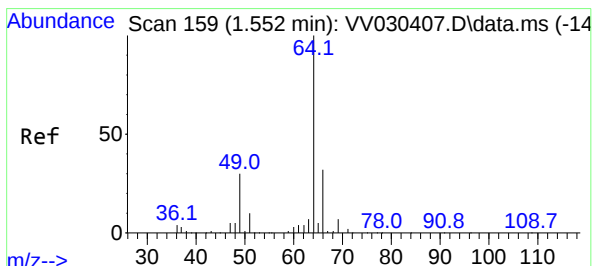
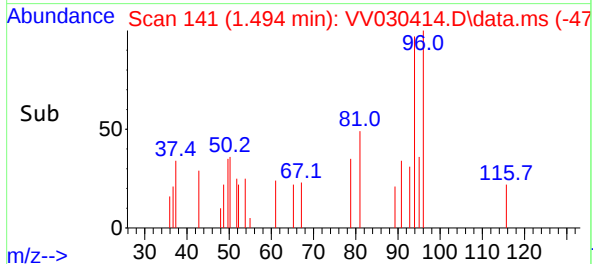
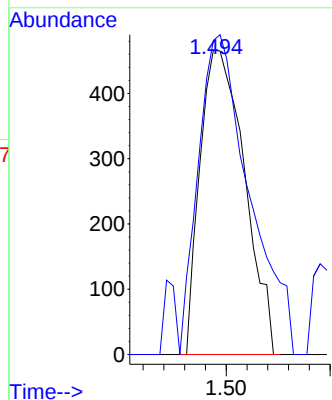
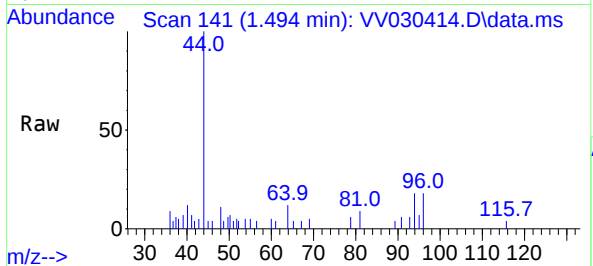




#6
Bromomethane
Concen: 0.145 ug/L
RT: 1.494 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV030414.D
Acq: 06 Apr 2023 13:47

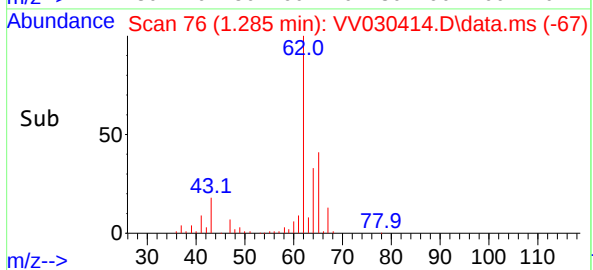
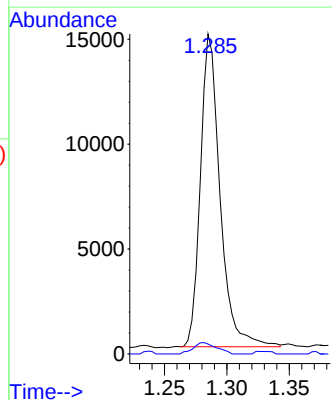
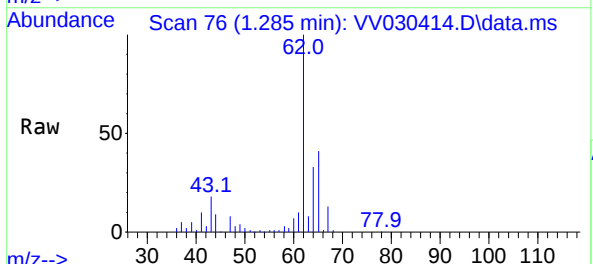
Instrument :
MSVOA_V
ClientSampleId :
BHDW8

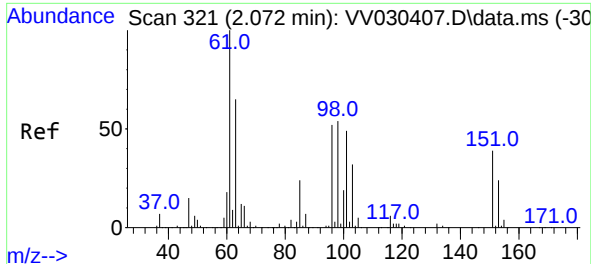
Tgt Ion: 94 Resp: 692
Ion Ratio Lower Upper
94 100
96 103.2 66.1 122.7



#8
Chloroethane
Concen: 1.709 ug/L
RT: 1.285 min Scan# 76
Delta R.T. -0.270 min
Lab File: VV030414.D
Acq: 06 Apr 2023 13:47

Tgt Ion: 64 Resp: 16368
Ion Ratio Lower Upper
64 100
66 3.1 23.0 42.8#





#10

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

Concen: 0.224 ug/L

RT: 2.076 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV030414.D

Acq: 06 Apr 2023 13:47

Instrument :

MSVOA_V

ClientSampleId :

BHDW8

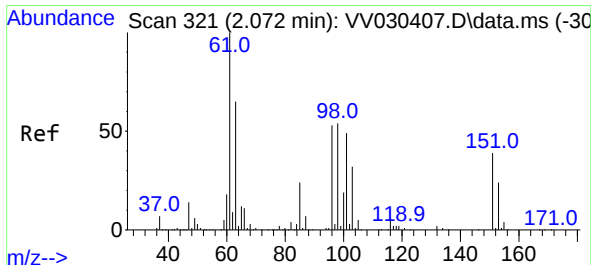
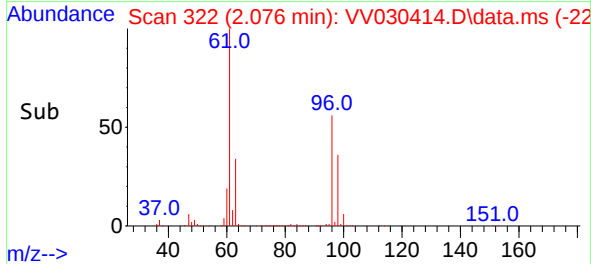
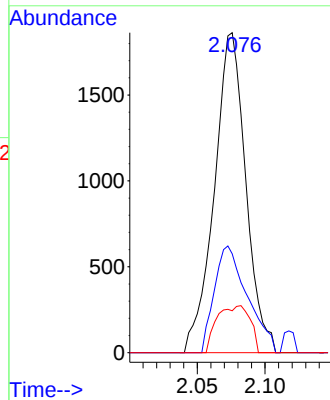
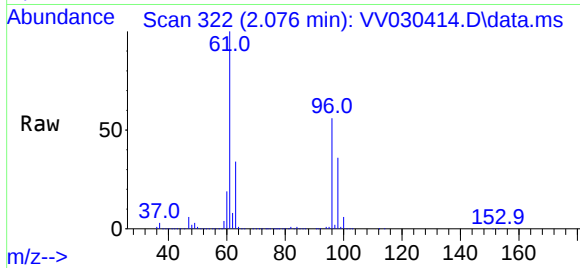
Tgt Ion:101 Resp: 3011

Ion Ratio Lower Upper

101 100

85 35.0 38.1 57.1#

151 15.4 62.7 94.1#



#12

1,1-Dichloroethene

Concen: 80.621 ug/L

RT: 2.076 min Scan# 322

Delta R.T. 0.000 min

Lab File: VV030414.D

Acq: 06 Apr 2023 13:47

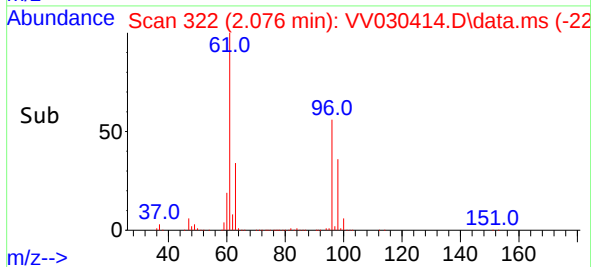
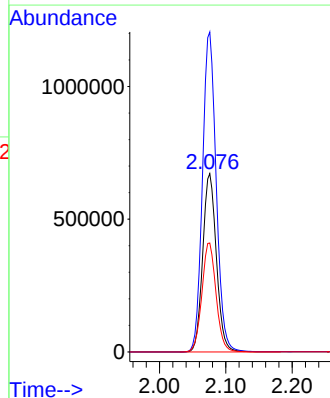
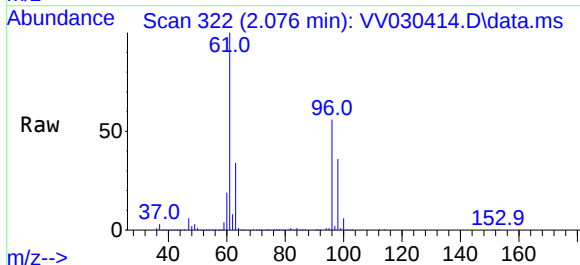
Tgt Ion: 96 Resp: 962997

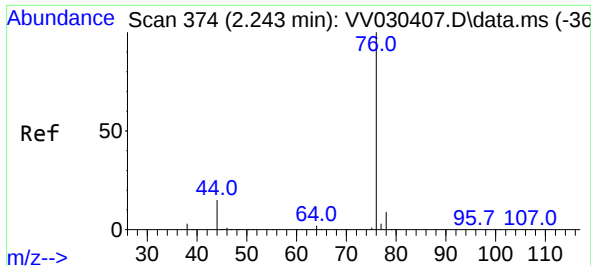
Ion Ratio Lower Upper

96 100

61 179.4 136.3 253.1

63 61.1 92.1 171.1#





#14

Carbon disulfide

Concen: 0.098 ug/L

RT: 2.249 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV030414.D

Acq: 06 Apr 2023 13:47

Instrument :

MSVOA_V

ClientSampleId :

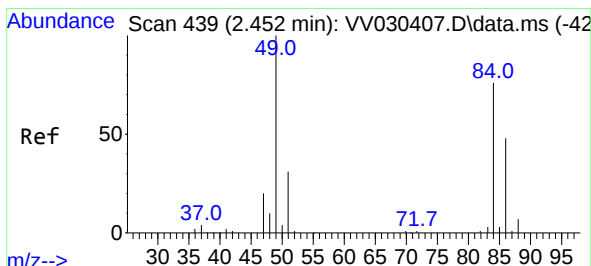
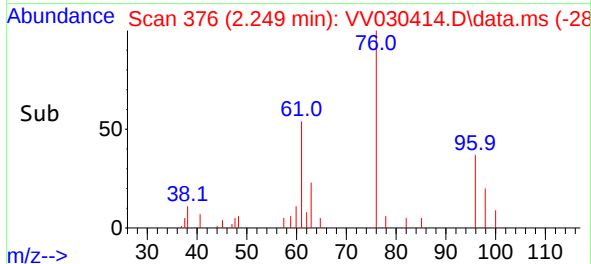
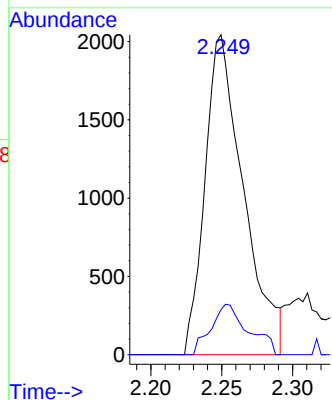
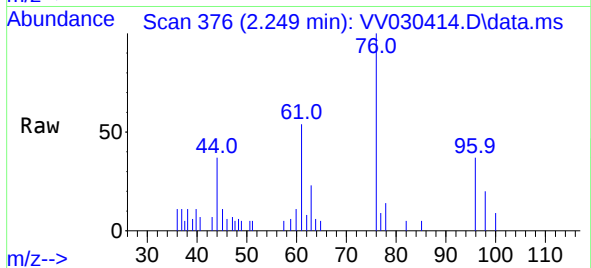
BHDW8

Tgt Ion: 76 Resp: 3857

Ion Ratio Lower Upper

76 100

78 14.1 7.3 10.9#



#16

Methylene chloride

Concen: 0.349 ug/L

RT: 2.455 min Scan# 440

Delta R.T. 0.003 min

Lab File: VV030414.D

Acq: 06 Apr 2023 13:47

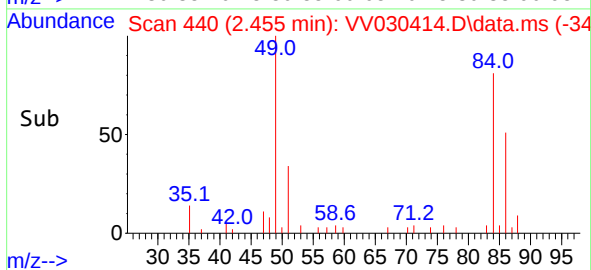
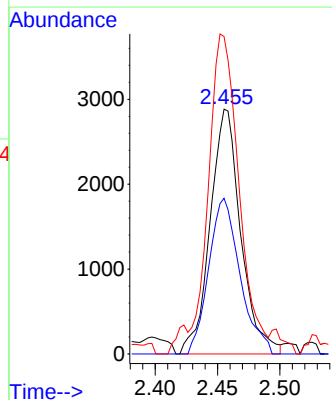
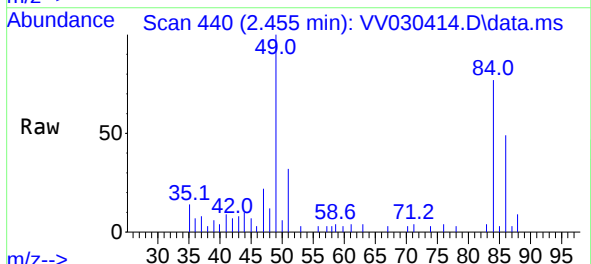
Tgt Ion: 84 Resp: 4932

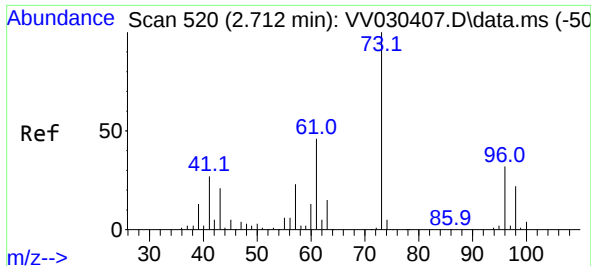
Ion Ratio Lower Upper

84 100

86 63.6 44.0 81.6

49 129.6 90.6 168.3





#17

Methyl tert-butyl Ether

Concen: 0.757 ug/L

RT: 2.716 min Scan# 517

Delta R.T. 0.003 min

Lab File: VV030414.D

Acq: 06 Apr 2023 13:47

Instrument :

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ClientSampleId :

BHDW8

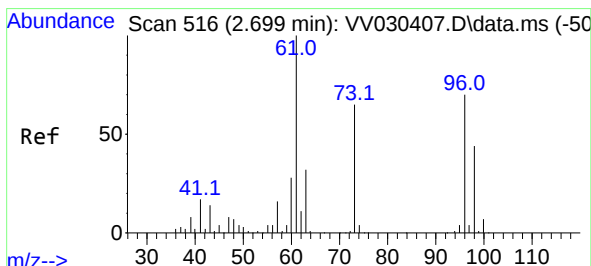
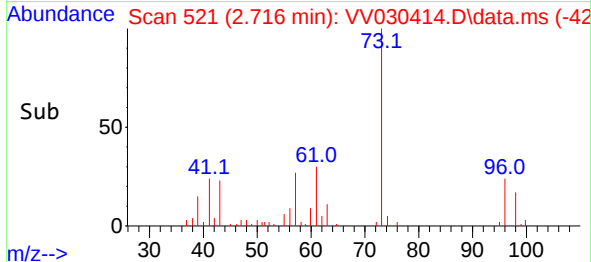
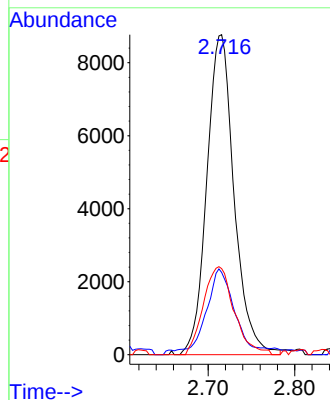
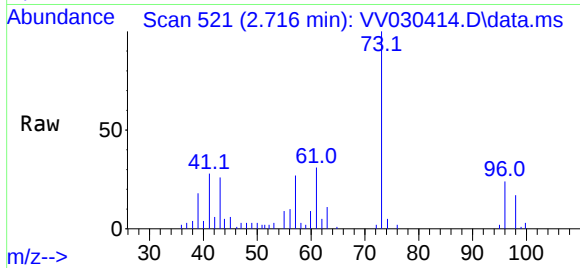
Tgt Ion: 73 Resp: 19163

Ion Ratio Lower Upper

73 100

43 24.9 17.4 26.2

57 30.9 18.3 27.5#



#18

trans-1,2-Dichloroethene

Concen: 0.492 ug/L

RT: 2.703 min Scan# 517

Delta R.T. 0.003 min

Lab File: VV030414.D

Acq: 06 Apr 2023 13:47

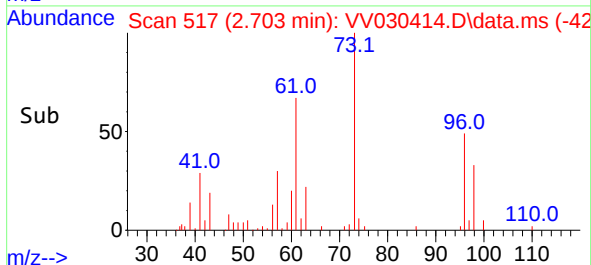
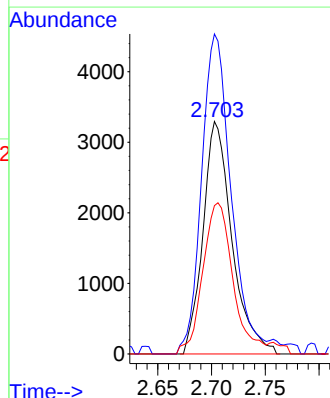
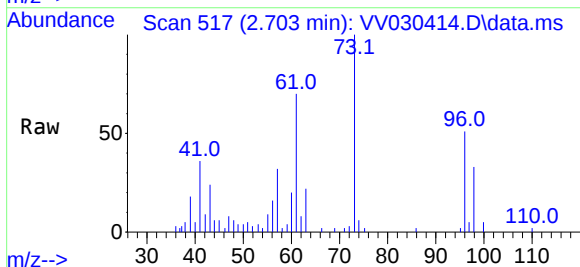
Tgt Ion: 96 Resp: 6185

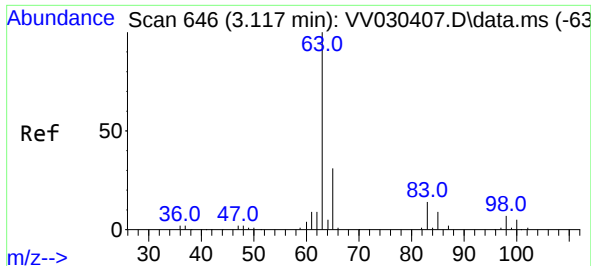
Ion Ratio Lower Upper

96 100

61 137.7 101.7 188.9

98 63.8 45.8 85.2





#19

1,1-Dichloroethane

Concen: 8.872 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV030414.D

Acq: 06 Apr 2023 13:47

Instrument :

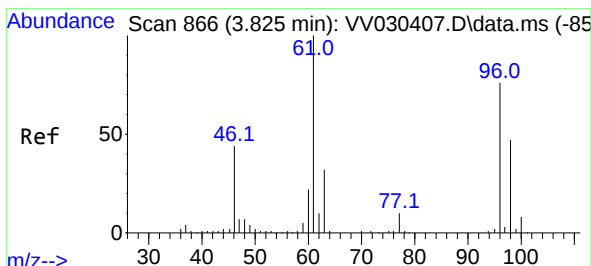
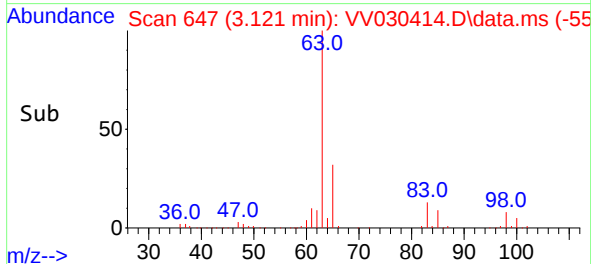
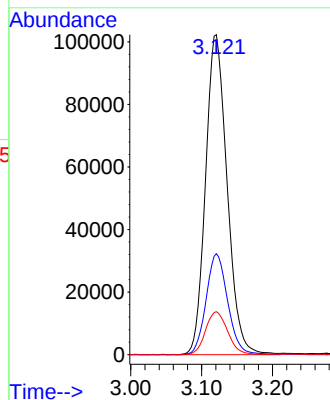
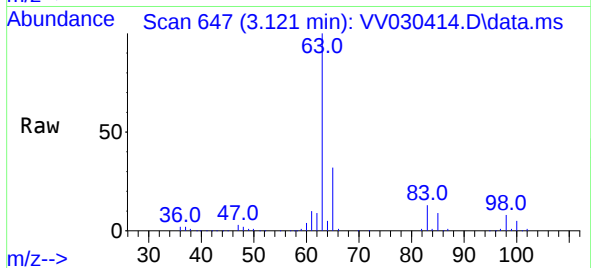
MSVOA_V

ClientSampleId :

BHDW8

Tgt Ion: 63 Resp: 216424

Ion	Ratio	Lower	Upper
63	100		
65	31.6	21.7	40.3
83	13.4	9.1	16.9



#22

cis-1,2-Dichloroethene

Concen: 120.738 ug/L

RT: 3.822 min Scan# 865

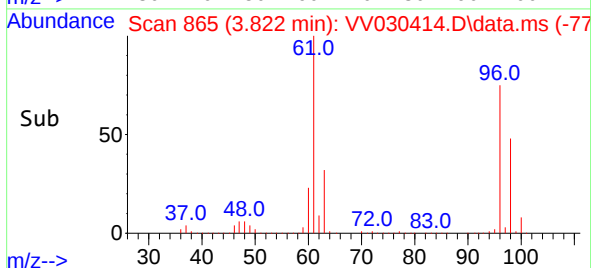
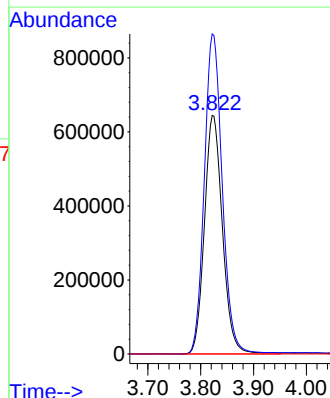
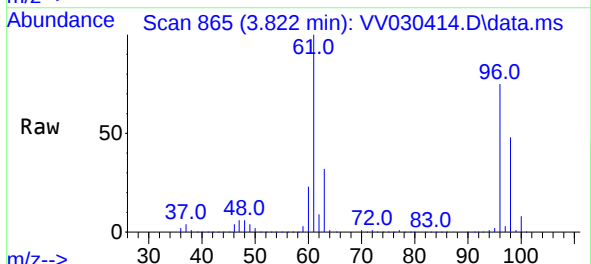
Delta R.T. -0.003 min

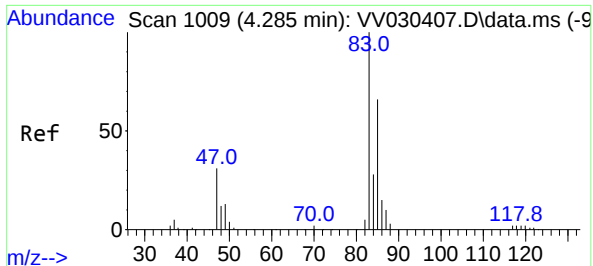
Lab File: VV030414.D

Acq: 06 Apr 2023 13:47

Tgt Ion: 96 Resp: 1524805

Ion	Ratio	Lower	Upper
96	100		
61	134.1	92.0	170.8
68	0.0	0.0	0.0





#25

Chloroform

Concen: 0.623 ug/L

RT: 4.285 min Scan# 1009

Delta R.T. 0.000 min

Lab File: VV030414.D

Acq: 06 Apr 2023 13:47

Instrument :

MSVOA_V

ClientSampleId :

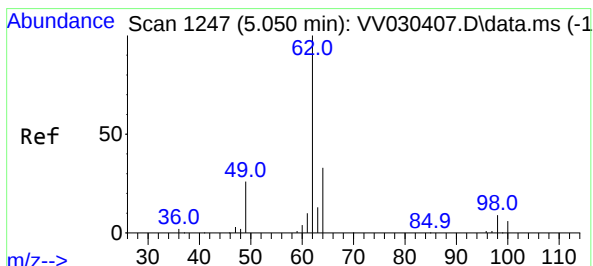
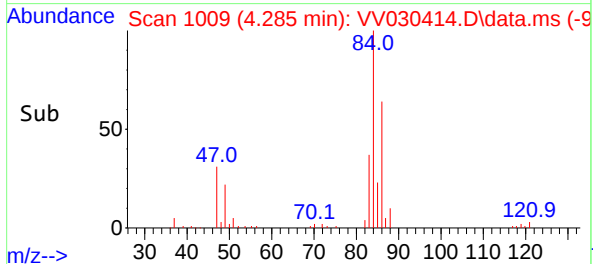
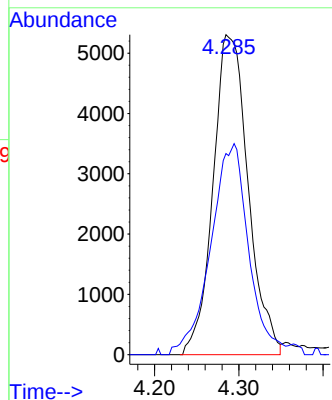
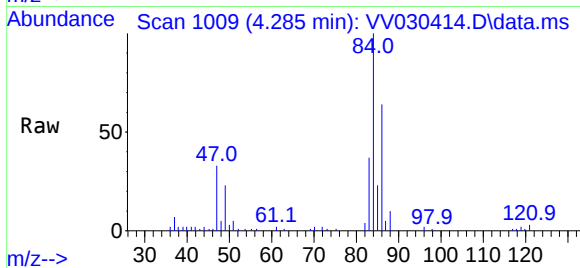
BHDW8

Tgt Ion: 83 Resp: 15347

Ion Ratio Lower Upper

83 100

85 62.9 47.6 88.4



#27

1,2-Dichloroethane

Concen: 0.868 ug/L

RT: 5.063 min Scan# 1251

Delta R.T. 0.013 min

Lab File: VV030414.D

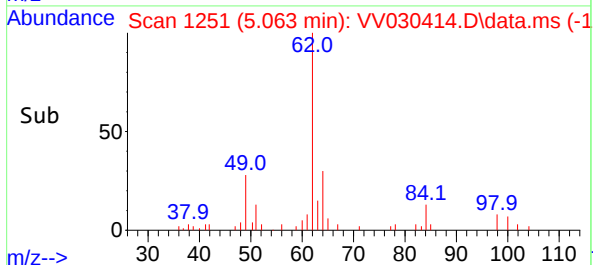
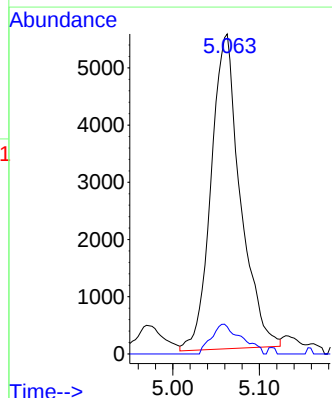
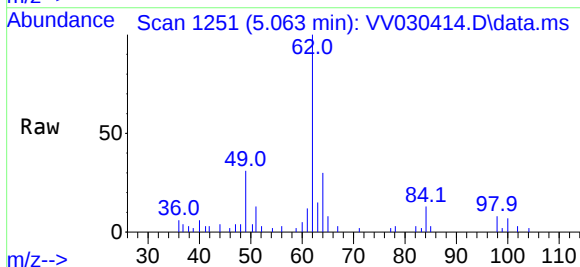
Acq: 06 Apr 2023 13:47

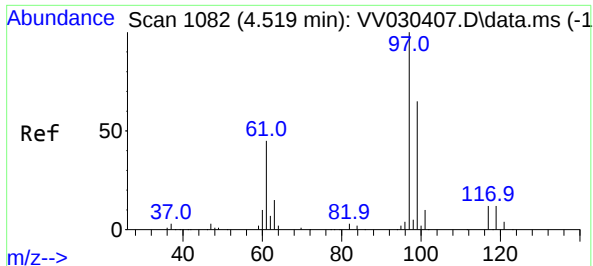
Tgt Ion: 62 Resp: 12932

Ion Ratio Lower Upper

62 100

98 8.5 7.8 11.8

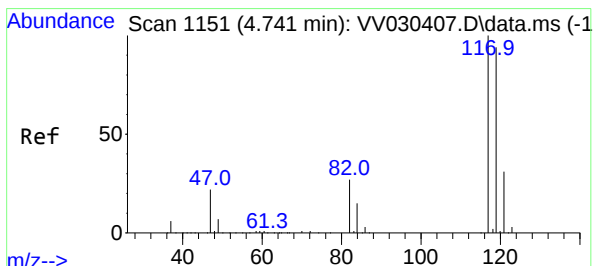
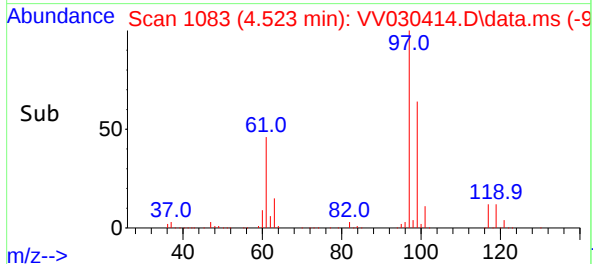
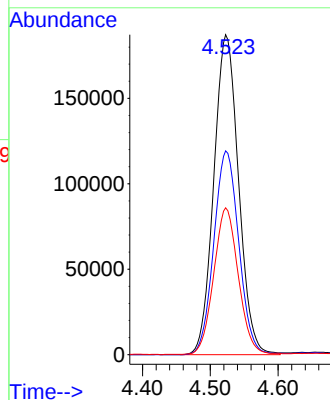
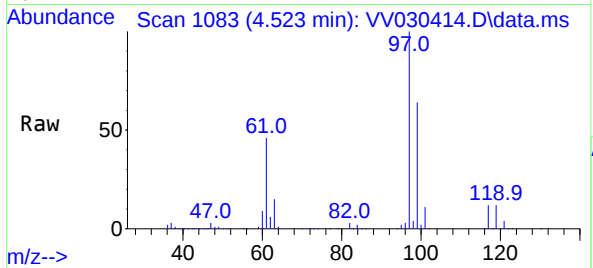




#29
1,1,1-Trichloroethane
Concen: 21.350 ug/L
RT: 4.523 min Scan# 1082
Delta R.T. 0.000 min
Lab File: VV030414.D
Acq: 06 Apr 2023 13:47

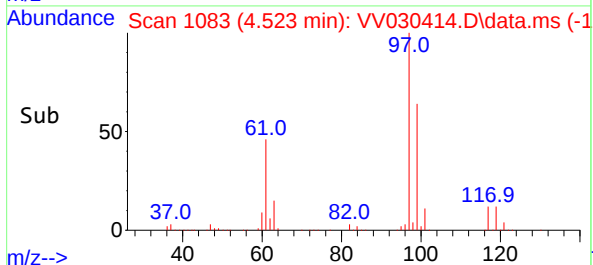
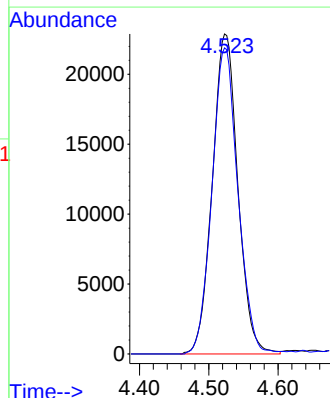
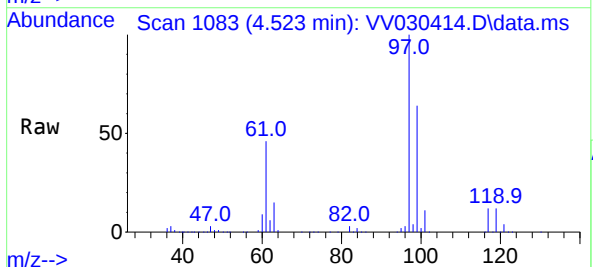
Instrument :
MSVOA_V
ClientSampleId :
BHDW8

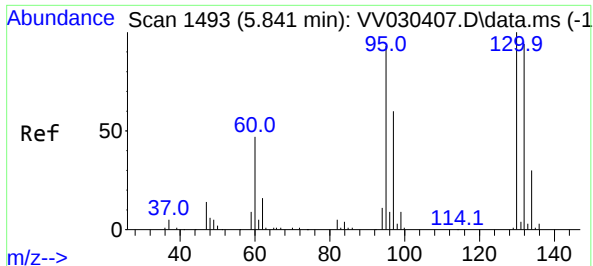
Tgt Ion: 97 Resp: 475439
Ion Ratio Lower Upper
97 100
99 64.4 50.9 76.3
61 45.3 35.9 53.9



#31
Carbon tetrachloride
Concen: 2.900 ug/L
RT: 4.523 min Scan# 1083
Delta R.T. -0.222 min
Lab File: VV030414.D
Acq: 06 Apr 2023 13:47

Tgt Ion: 117 Resp: 58599
Ion Ratio Lower Upper
117 100
119 97.1 76.2 114.4

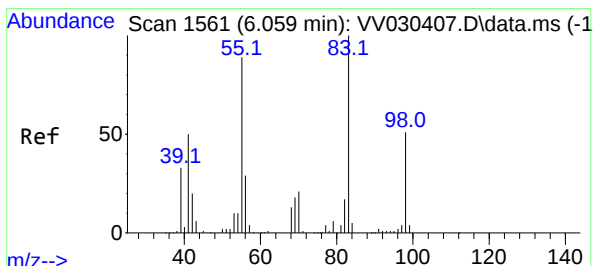
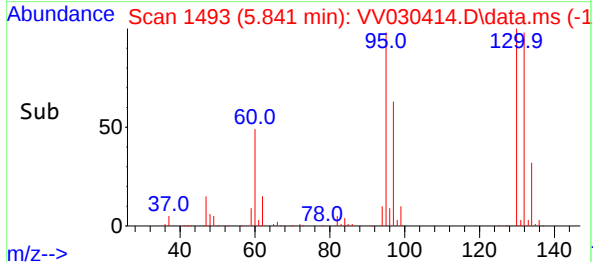
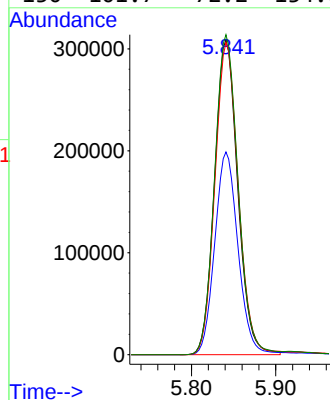
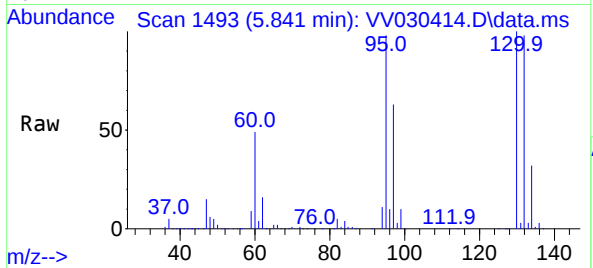




#34
Trichloroethene
Concen: 44.461 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VV030414.D
Acq: 06 Apr 2023 13:47

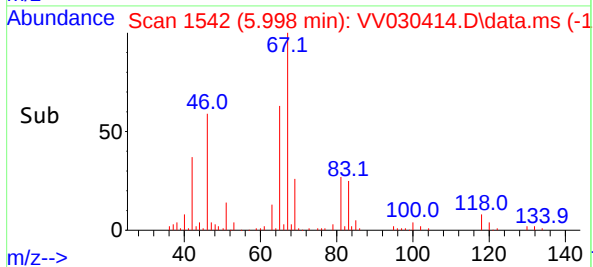
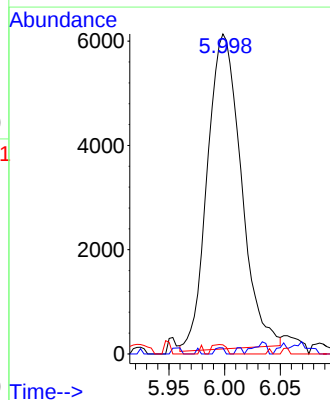
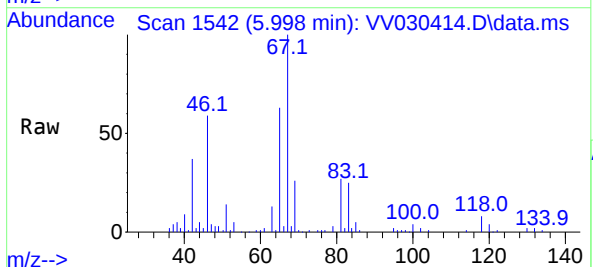
Instrument :
MSVOA_V
ClientSampleId :
BHDW8

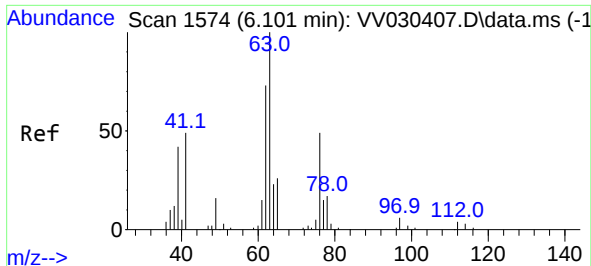
Tgt Ion: 95 Resp: 590093
Ion Ratio Lower Upper
95 100
97 64.4 44.2 82.2
132 99.2 69.5 129.1
130 101.7 72.2 134.0



#35
Methylcyclohexane
Concen: 0.611 ug/L
RT: 5.998 min Scan# 1542
Delta R.T. -0.061 min
Lab File: VV030414.D
Acq: 06 Apr 2023 13:47

Tgt Ion: 83 Resp: 12725
Ion Ratio Lower Upper
83 100
55 0.5 66.6 100.0#
98 0.0 38.6 58.0#

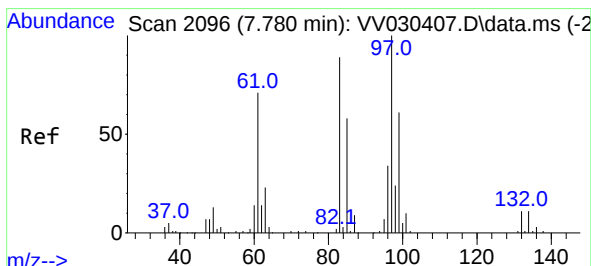
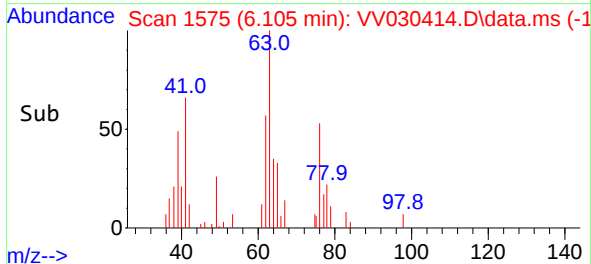
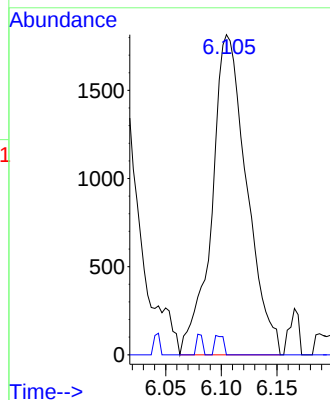
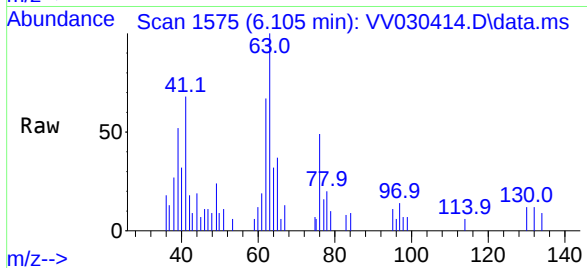




#37
1,2-Dichloropropane
Concen: 0.313 ug/L
RT: 6.105 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV030414.D
Acq: 06 Apr 2023 13:47

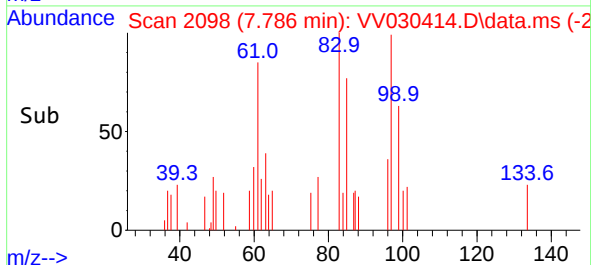
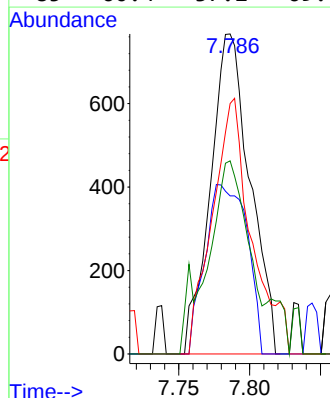
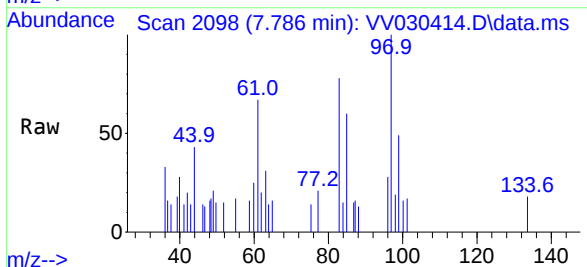
Instrument :
MSVOA_V
ClientSampleId :
BHDW8

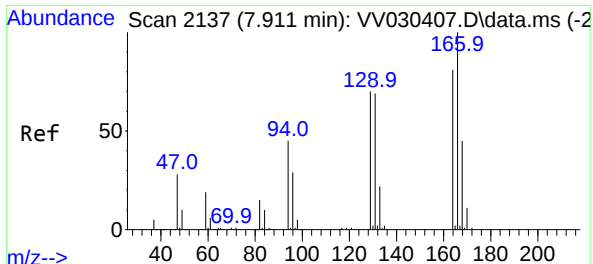
Tgt Ion: 63 Resp: 3952
Ion Ratio Lower Upper
63 100
112 1.5 3.9 5.9#



#45
1,1,2-Trichloroethane
Concen: 0.168 ug/L
RT: 7.786 min Scan# 2098
Delta R.T. 0.010 min
Lab File: VV030414.D
Acq: 06 Apr 2023 13:47

Tgt Ion: 97 Resp: 1494
Ion Ratio Lower Upper
97 100
99 49.4 44.0 81.8
83 78.2 58.8 109.2
85 60.4 37.2 69.0



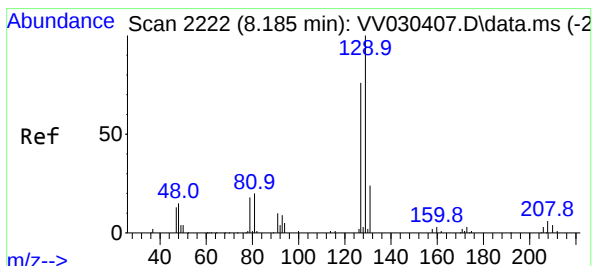
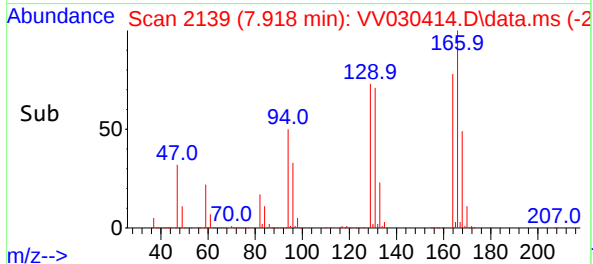
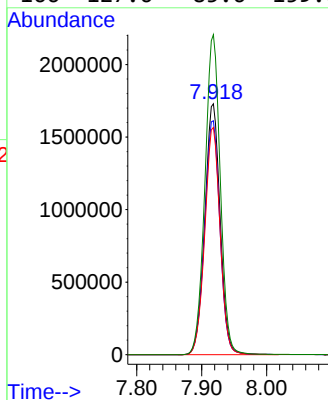
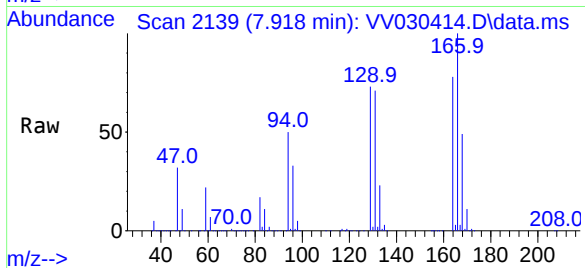


#47
Tetrachloroethene
Concen: 244.318 ug/L
RT: 7.918 min Scan# 2139
Delta R.T. 0.006 min
Lab File: VV030414.D
Acq: 06 Apr 2023 13:47

Instrument :
MSVOA_V
ClientSampleId :
BHDW8

Tgt Ion:164 Resp: 2861763

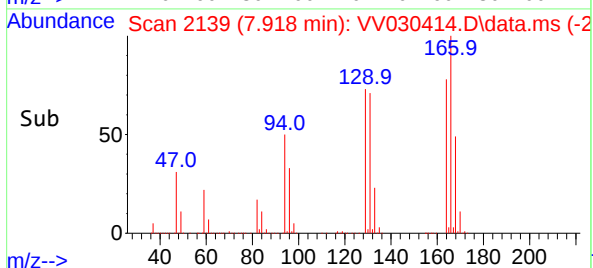
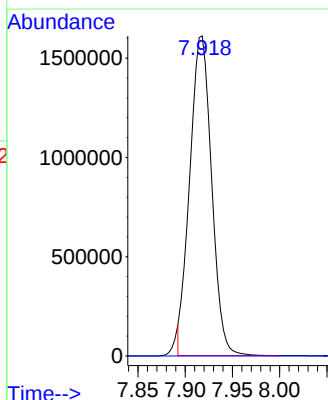
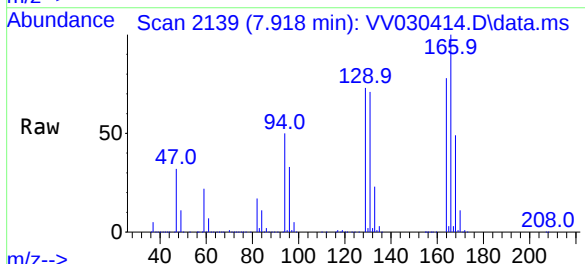
Ion	Ratio	Lower	Upper
164	100		
129	93.2	60.8	112.8
131	90.6	61.7	114.7
166	127.6	85.6	159.0

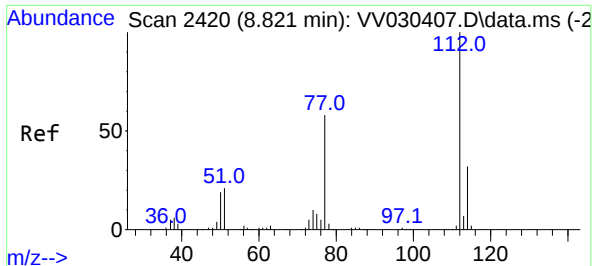


#49
Dibromochloromethane
Concen: 244.033 ug/L
RT: 7.918 min Scan# 2139
Delta R.T. -0.267 min
Lab File: VV030414.D
Acq: 06 Apr 2023 13:47

Tgt Ion:129 Resp: 2584020

Ion	Ratio	Lower	Upper
129	100		
127	0.0	52.7	97.9#

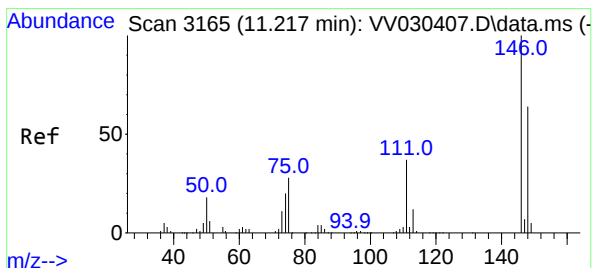
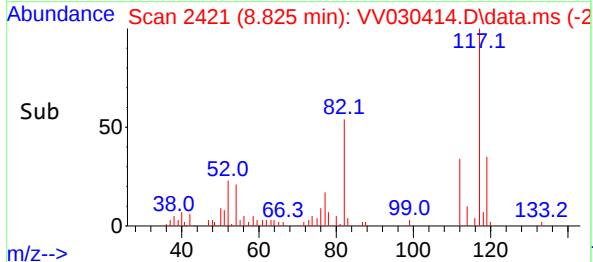
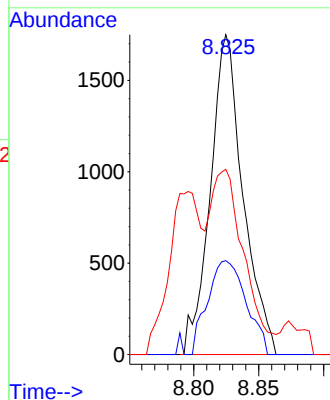
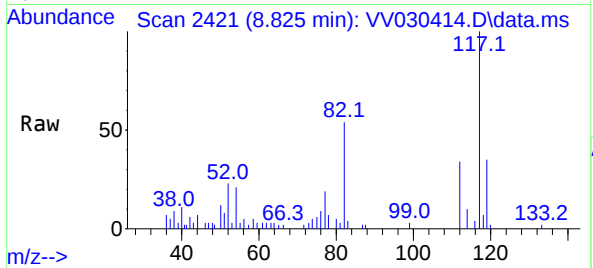




#51
Chlorobenzene
Concen: 0.091 ug/L
RT: 8.825 min Scan# 2420
Delta R.T. 0.003 min
Lab File: VV030414.D
Acq: 06 Apr 2023 13:47

Instrument :
MSVOA_V
ClientSampleId :
BHDW8

Tgt Ion:112 Resp: 3068
Ion Ratio Lower Upper
112 100
114 29.4 22.4 41.6
77 57.9 45.9 68.9



#65
1,4-Dichlorobenzene
Concen: 0.194 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. 0.000 min
Lab File: VV030414.D
Acq: 06 Apr 2023 13:47

Tgt Ion:146 Resp: 5040
Ion Ratio Lower Upper
146 100
111 42.5 26.0 48.4
148 67.9 45.2 84.0

