

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102122\
 Data File : VN074960.D
 Acq On : 21 Oct 2022 14:35
 Operator : JC\MD
 Sample : N5222-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11

Quant Time: Oct 22 02:53:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102022W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 21 09:37:47 2022
 Response via : Initial Calibration

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

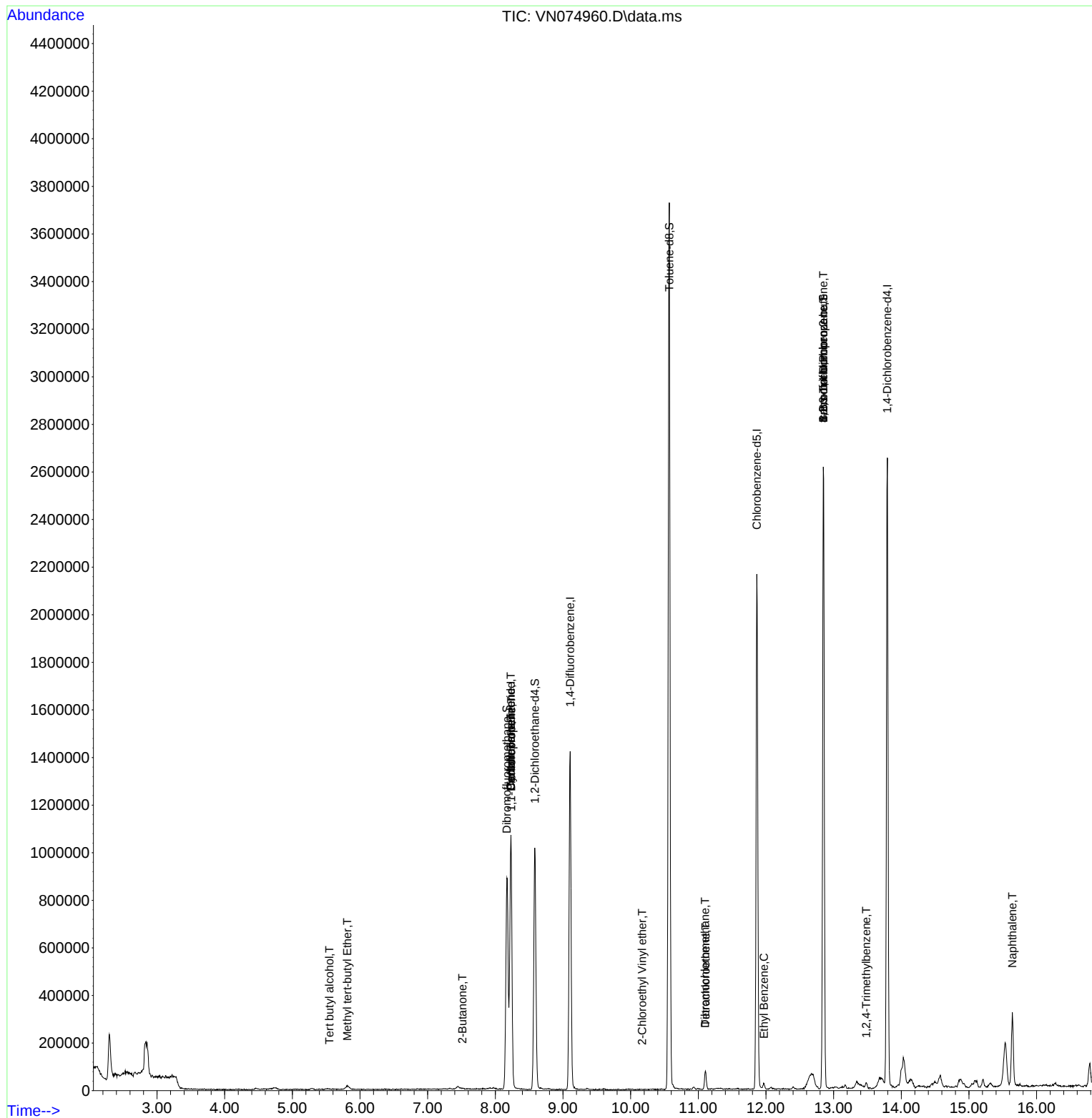
Internal Standards						
1) Pentafluorobenzene	8.230	168	732359	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	1233452	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	1243726	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	678322	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	804796	41.360	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	82.720%
35) Dibromofluoromethane	8.171	113	632659	43.093	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	86.180%
50) Toluene-d8	10.571	98	2606590	46.275	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.540%
62) 4-Bromofluorobenzene	12.847	95	901281	45.361	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.720%
Target Compounds						Qvalue
3) Chloromethane	2.371	50	3901	Below Cal		88
4) Vinyl Chloride	2.530	62	671	Below Cal	#	44
5) Bromomethane	2.901	94	1132	Below Cal	#	26
6) Chloroethane	3.218	64	4066	Below Cal	#	40
7) Trichlorofluoromethane	3.477	101	84	Below Cal	#	18
9) 1,1,2-Trichlorotrifluo...	4.389	101	138	Below Cal	#	19
11) Tert butyl alcohol	5.548	59	851	0.207 ug/l		98
12) 1,1-Dichloroethene	4.359	96	120	Below Cal	#	38
13) Acrolein	4.201	56	1536	Below Cal	#	16
16) Acetone	4.459	43	9885	Below Cal	#	67
17) Carbon Disulfide	4.718	76	1200	Below Cal	#	74
19) Methyl tert-butyl Ether	5.812	73	16448	0.348 ug/l	#	75
20) Methylene Chloride	5.283	84	2252	Below Cal	#	51
21) trans-1,2-Dichloroethene	5.806	96	252	Below Cal	#	36
25) 2-Butanone	7.512	43	3916	0.330 ug/l	#	64
31) Cyclohexane	8.230	56	17955	0.903 ug/l	#	9
36) 1,1-Dichloropropene	8.236	75	65523	3.544 ug/l	#	44
38) Carbon Tetrachloride	8.230	117	83273	4.137 ug/l	#	15
58) 2-Chloroethyl Vinyl ether	10.171	63	59	3.614 ug/l	#	45
60) Dibromochloromethane	11.100	129	18310	1.117 ug/l	#	10
64) Tetrachloroethene	11.106	164	17080	1.679 ug/l	#	83
67) Ethyl Benzene	11.971	91	14517	0.217 ug/l	#	84
71) Bromoform	12.847	173	6316	0.590 ug/l	#	1
76) 1,2,3-Trichloropropane	12.847	75	490006	26.637 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.847	75	490006	85.406 ug/l	#	10
84) 1,2,4-Trimethylbenzene	13.482	105	14923	0.309 ug/l		98
95) Naphthalene	15.641	128	288840	7.009 ug/l		99

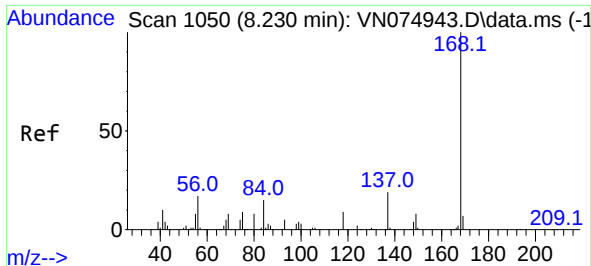
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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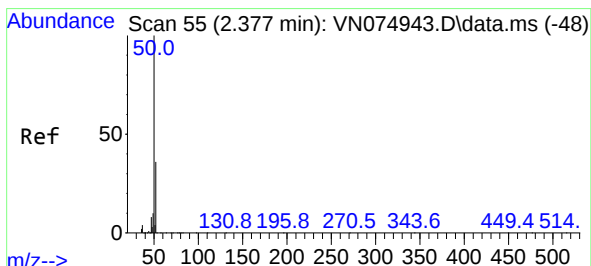
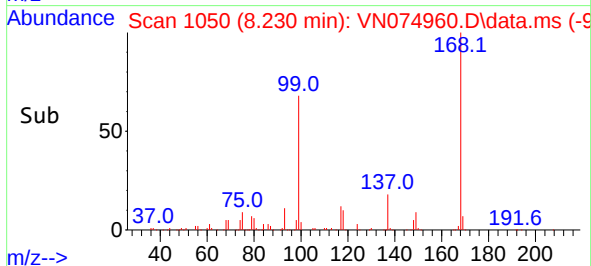
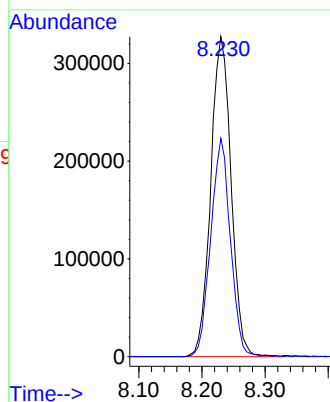
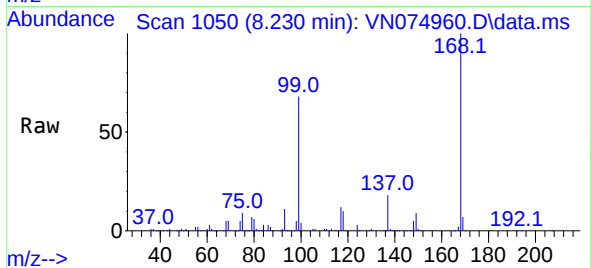




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

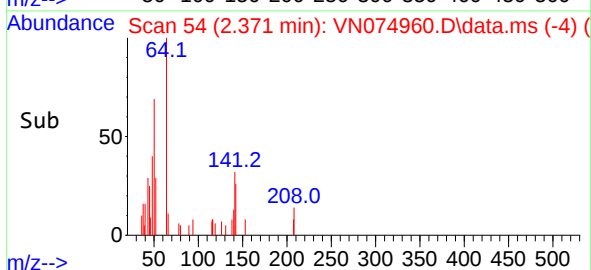
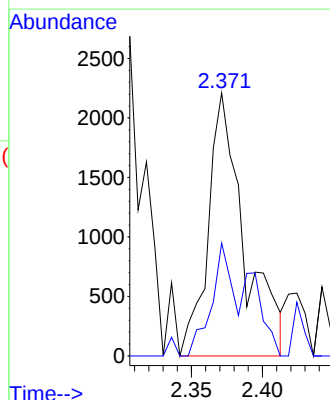
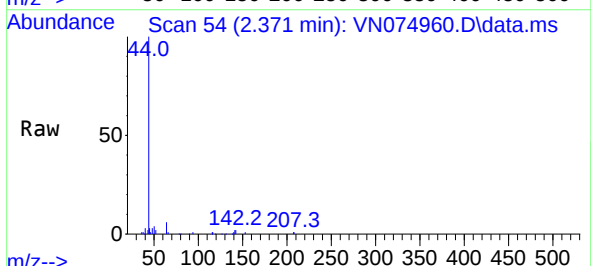
Instrument :
MSVOA_N
ClientSampleId :
MW-11

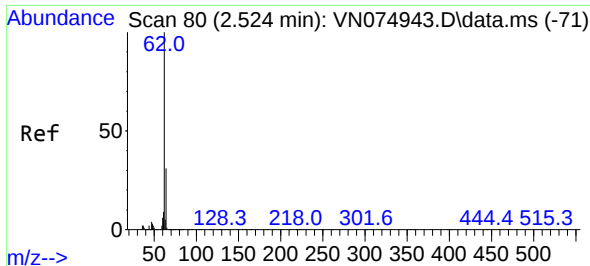
Tgt Ion:168 Resp: 732359
Ion Ratio Lower Upper
168 100
99 68.2 52.2 78.4



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 54
Delta R.T. -0.006 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion: 50 Resp: 3901
Ion Ratio Lower Upper
50 100
52 42.9 28.8 43.2

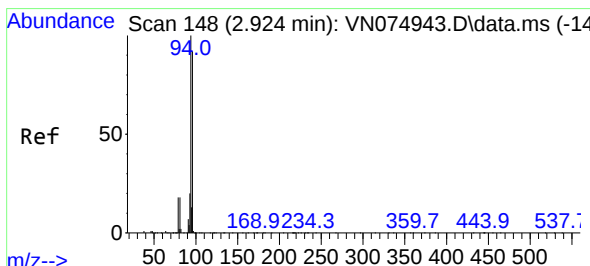
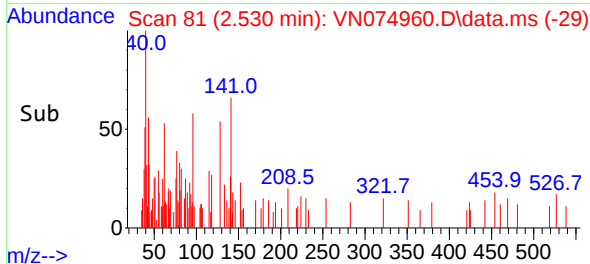
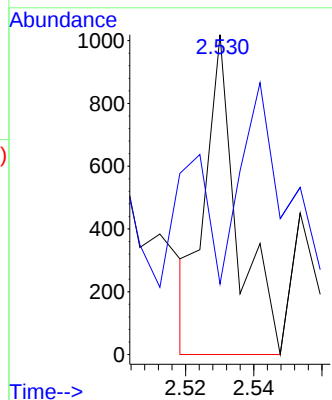
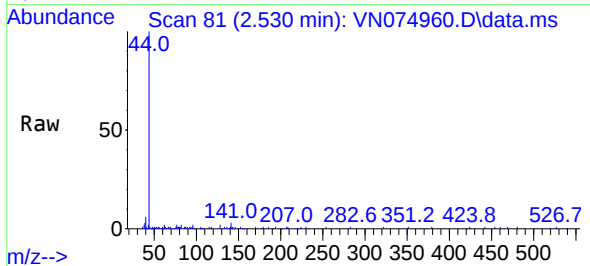




#4
Vinyl Chloride
Concen: Below Cal
RT: 2.530 min Scan# 81
Delta R.T. 0.006 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

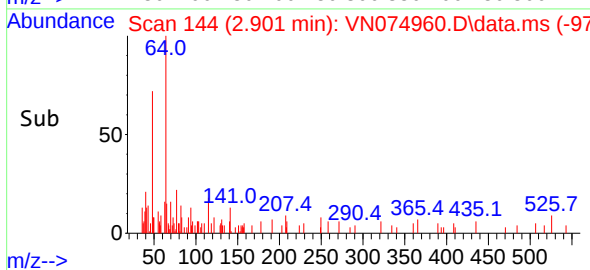
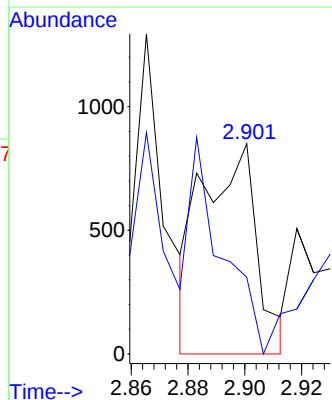
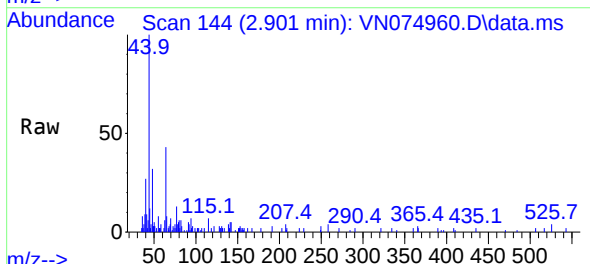
Instrument :
MSVOA_N
ClientSampleId :
MW-11

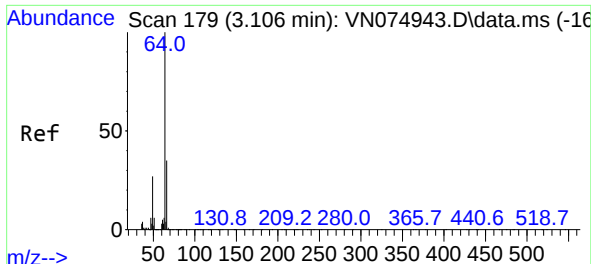
Tgt Ion: 62 Resp: 671
Ion Ratio Lower Upper
62 100
64 0.0 24.5 36.7#



#5
Bromomethane
Concen: Below Cal
RT: 2.901 min Scan# 144
Delta R.T. -0.023 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion: 94 Resp: 1132
Ion Ratio Lower Upper
94 100
96 21.1 73.5 110.3#

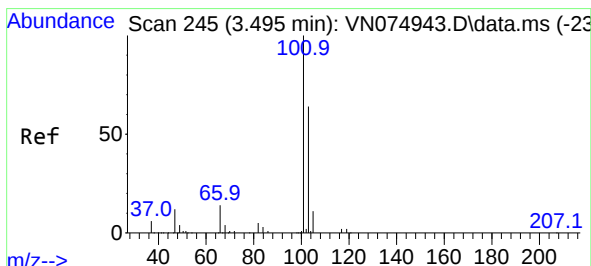
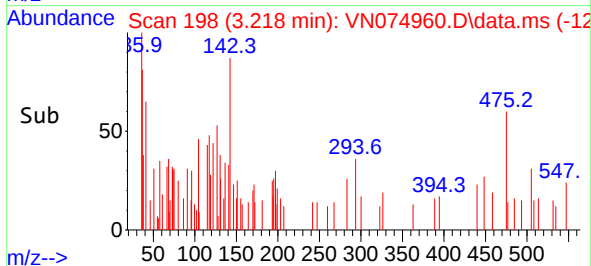
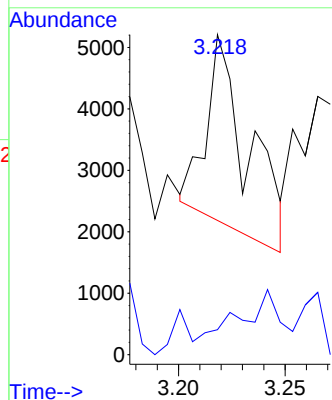
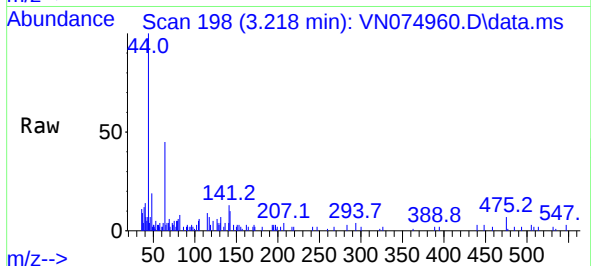




#6
Chloroethane
Concen: Below Cal
RT: 3.218 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

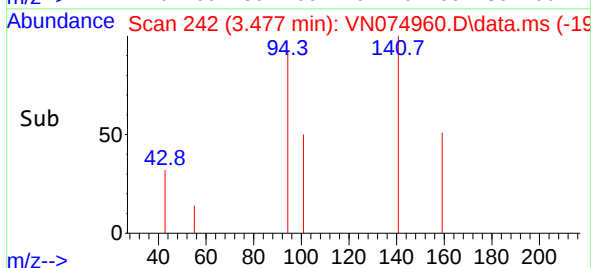
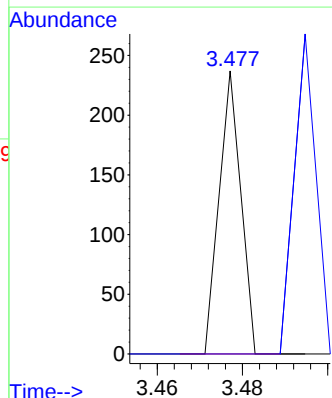
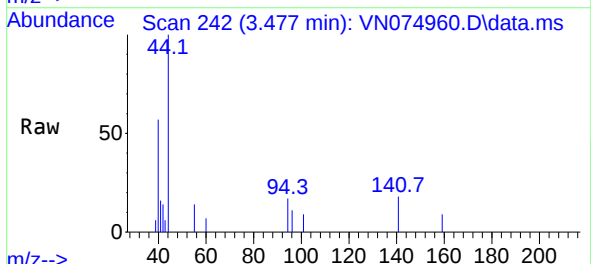
Instrument :
MSVOA_N
ClientSampleId :
MW-11

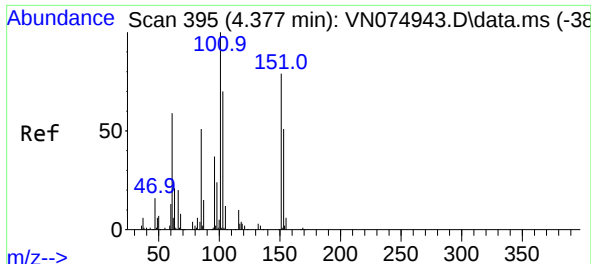
Tgt Ion: 64 Resp: 4066
Ion Ratio Lower Upper
64 100
66 0.0 27.9 41.9#



#7
Trichlorofluoromethane
Concen: Below Cal
RT: 3.477 min Scan# 242
Delta R.T. -0.018 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion:101 Resp: 84
Ion Ratio Lower Upper
101 100
103 0.0 51.5 77.3#

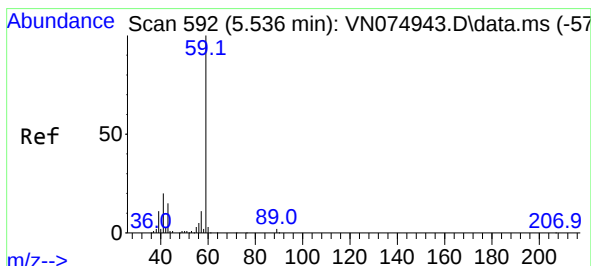
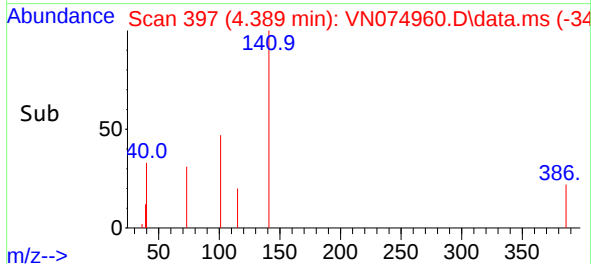
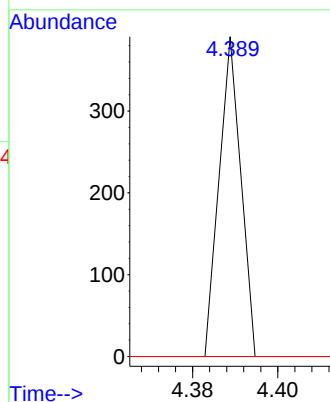
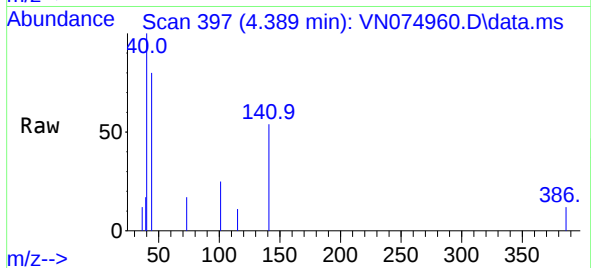




#9
1,1,2-Trichlorotrifluoroethane
Concen: Below Cal
RT: 4.389 min Scan# 395
Delta R.T. 0.012 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

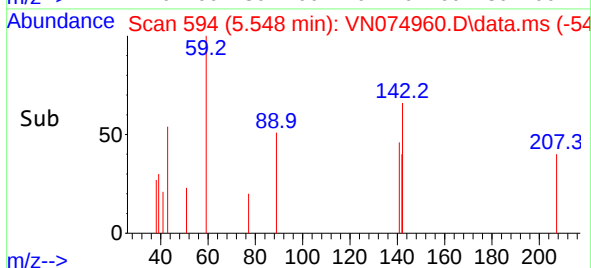
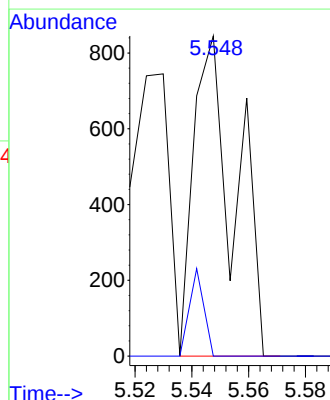
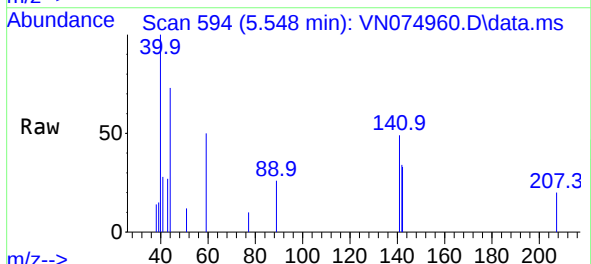
Instrument :
MSVOA_N
ClientSampleId :
MW-11

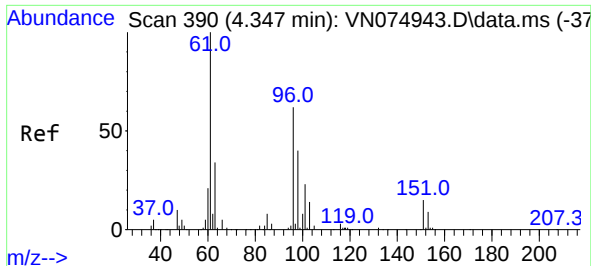
Tgt Ion:101 Resp: 138
Ion Ratio Lower Upper
101 100
85 0.0 37.8 56.8#
151 0.0 58.5 87.7#



#11
Tert butyl alcohol
Concen: 0.207 ug/l
RT: 5.548 min Scan# 594
Delta R.T. 0.012 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion: 59 Resp: 851
Ion Ratio Lower Upper
59 100
57 9.6 8.2 12.4





#12

1,1-Dichloroethene

Concen: Below Cal

RT: 4.359 min Scan# 391

Delta R.T. 0.012 min

Lab File: VN074960.D

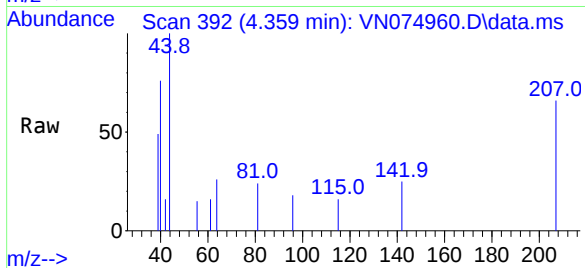
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Instrument :

MSVOA_N

ClientSampleId :

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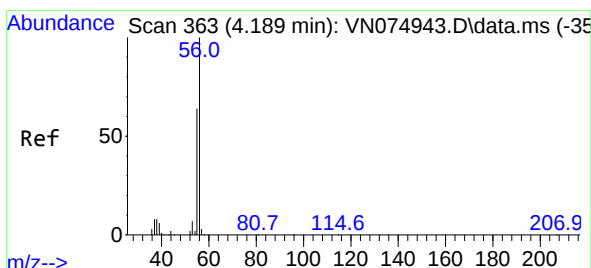
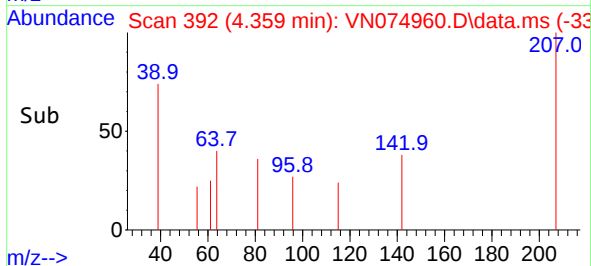
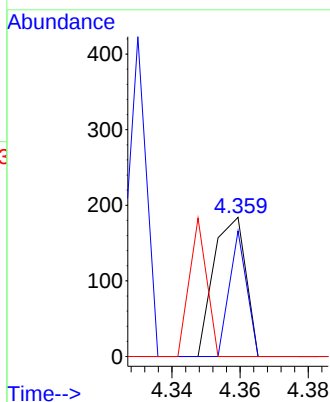
Tgt Ion: 96 Resp: 120

Ion Ratio Lower Upper

96 100

61 90.2 128.9 193.3#

98 0.0 51.8 77.8#



#13

Acrolein

Concen: Below Cal

RT: 4.201 min Scan# 365

Delta R.T. 0.012 min

Lab File: VN074960.D

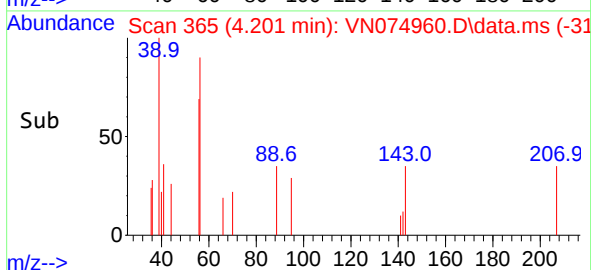
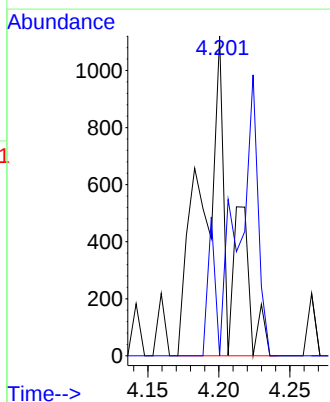
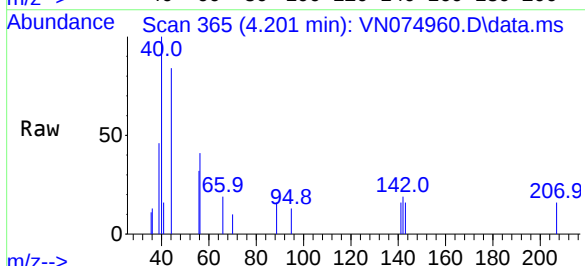
Acq: 21 Oct 2022 14:35

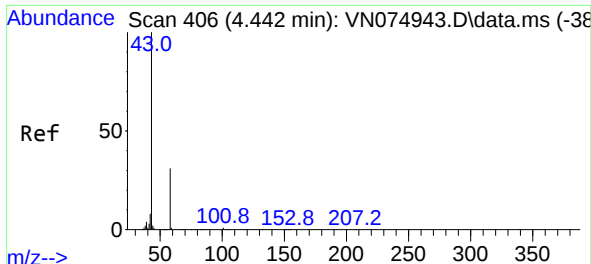
Tgt Ion: 56 Resp: 1536

Ion Ratio Lower Upper

56 100

55 0.0 53.7 80.5#

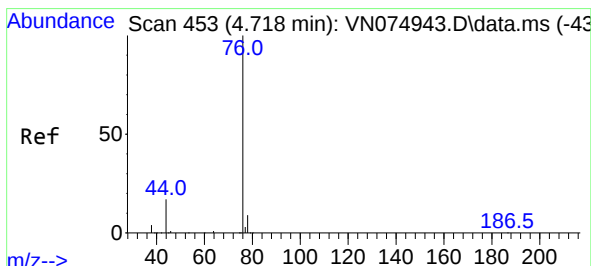
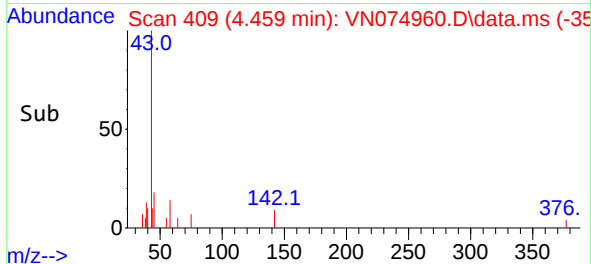
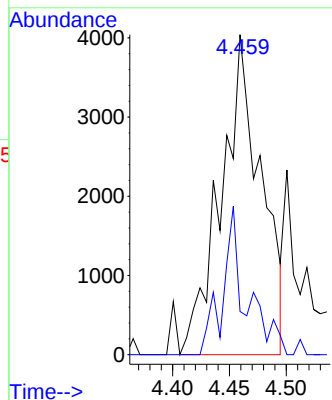
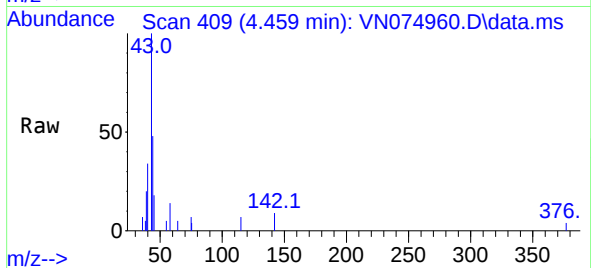




#16
Acetone
Concen: Below Cal
RT: 4.459 min Scan# 406
Delta R.T. 0.017 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

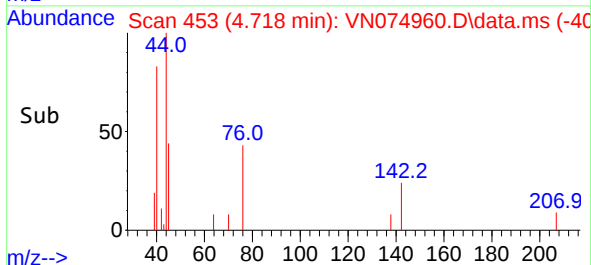
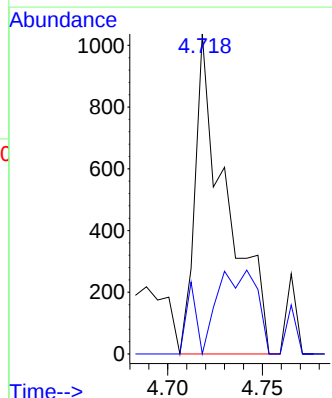
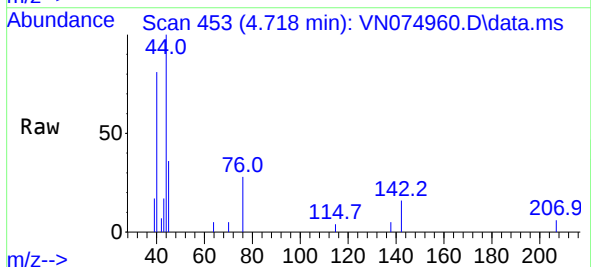
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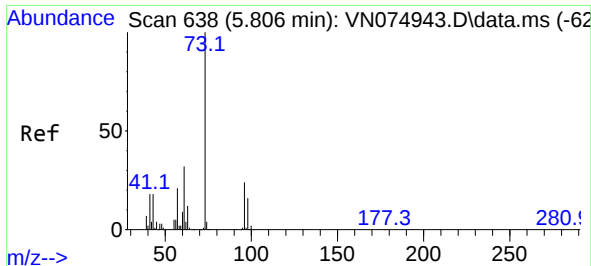
Tgt Ion: 43 Resp: 9885
Ion Ratio Lower Upper
43 100
58 13.5 25.7 38.5#



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.718 min Scan# 453
Delta R.T. 0.000 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion: 76 Resp: 1200
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#





#19

Methyl tert-butyl Ether

Concen: 0.348 ug/l

RT: 5.812 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN074960.D

Acq: 21 Oct 2022 14:35

Instrument :

MSVOA_N

ClientSampleId :

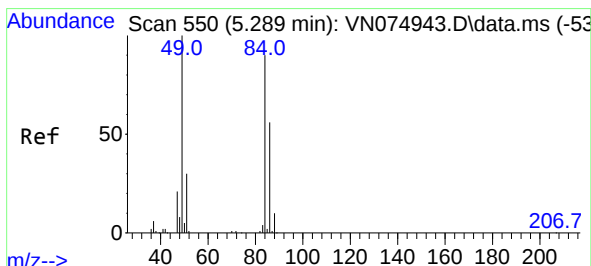
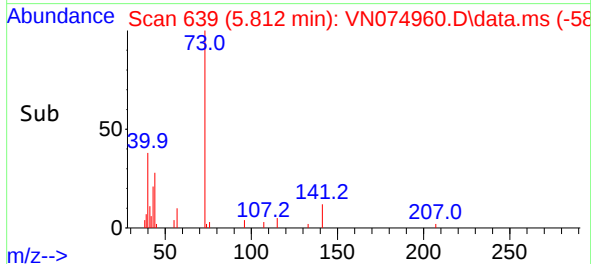
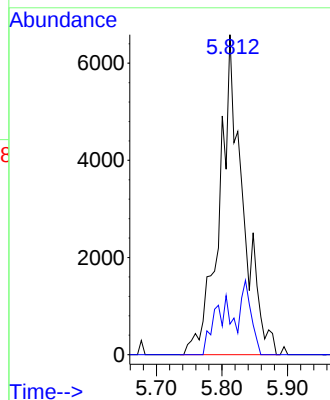
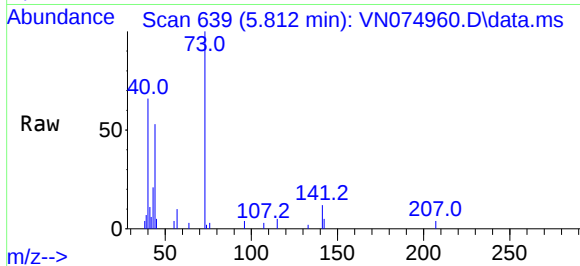
MW-11

Tgt Ion: 73 Resp: 16448

Ion Ratio Lower Upper

73 100

57 9.6 16.9 25.3#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.283 min Scan# 549

Delta R.T. -0.006 min

Lab File: VN074960.D

Acq: 21 Oct 2022 14:35

Tgt Ion: 84 Resp: 2252

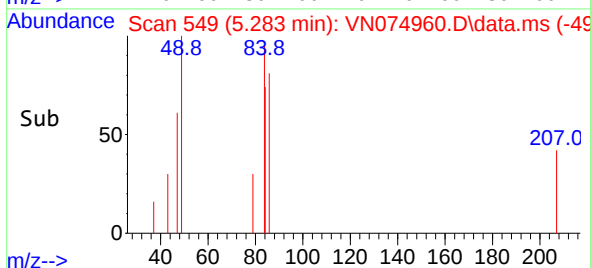
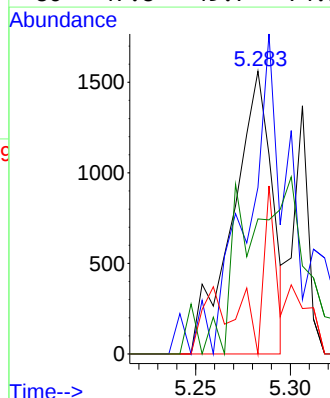
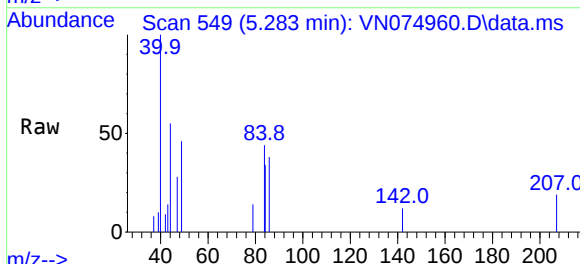
Ion Ratio Lower Upper

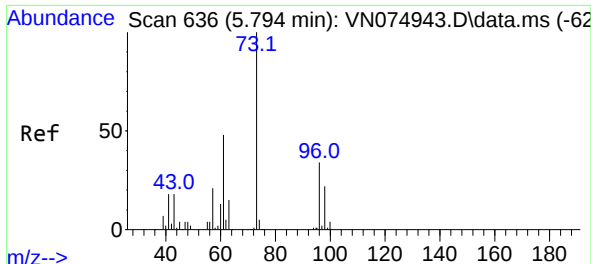
84 100

49 44.7 88.6 133.0#

51 0.0 26.7 40.1#

86 47.8 49.7 74.5#

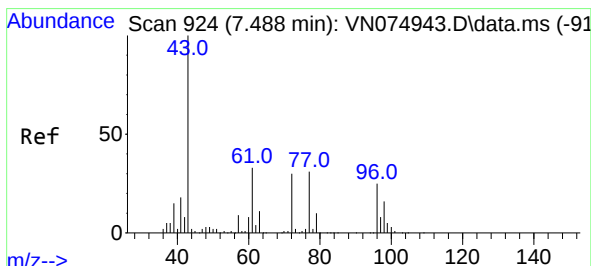
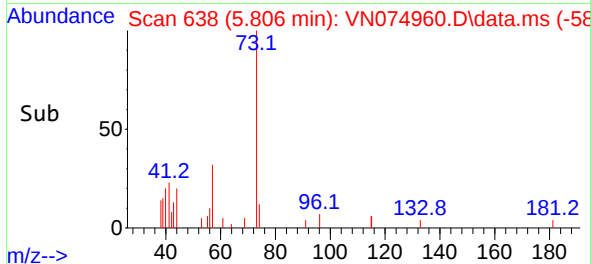
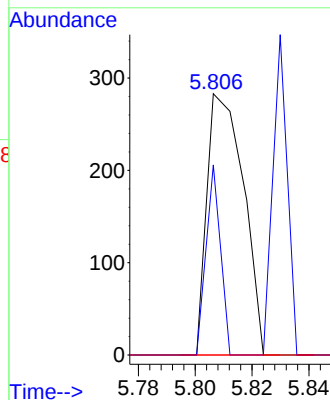
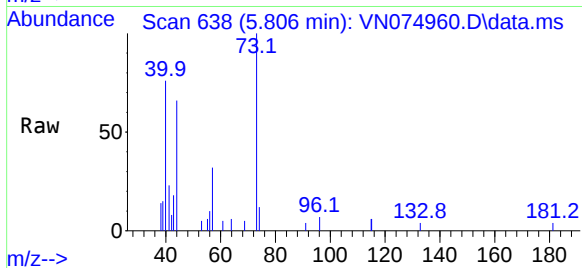




#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.806 min Scan# 61
Delta R.T. 0.012 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

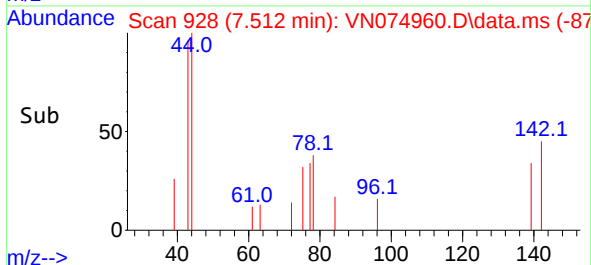
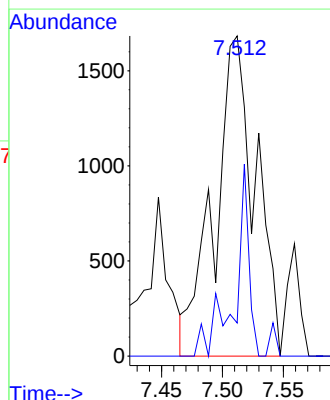
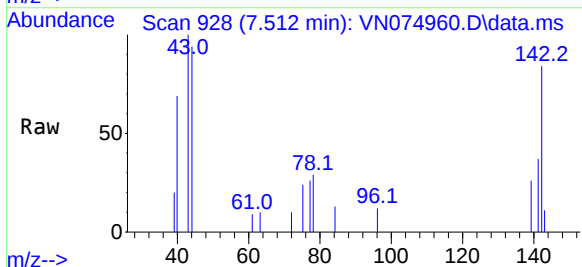
Instrument :
MSVOA_N
ClientSampleId :
MW-11

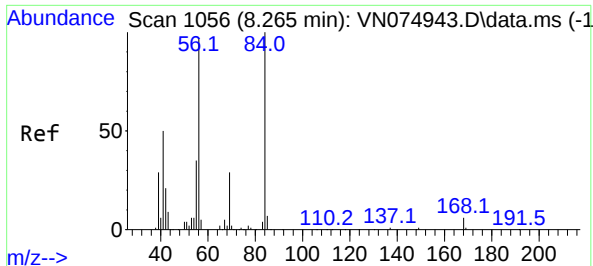
Tgt Ion: 96 Resp: 252
Ion Ratio Lower Upper
96 100
61 72.8 112.6 169.0#
98 0.0 52.4 78.6#



#25
2-Butanone
Concen: 0.330 ug/l
RT: 7.512 min Scan# 928
Delta R.T. 0.024 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion: 43 Resp: 3916
Ion Ratio Lower Upper
43 100
72 10.3 23.9 35.9#

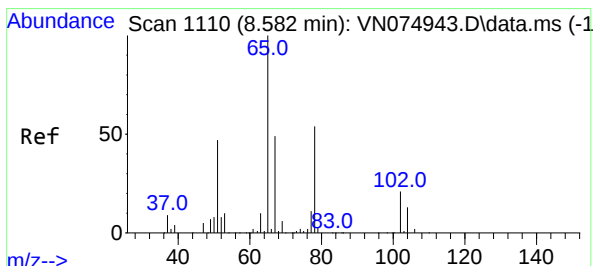
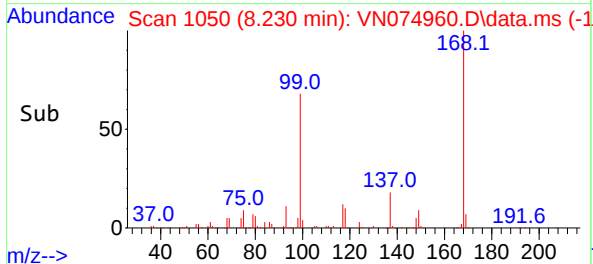
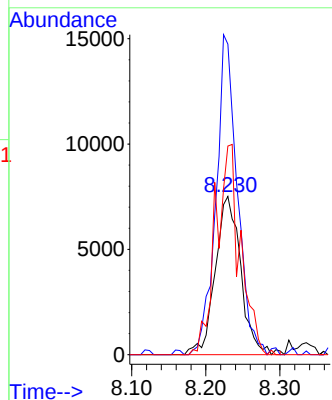
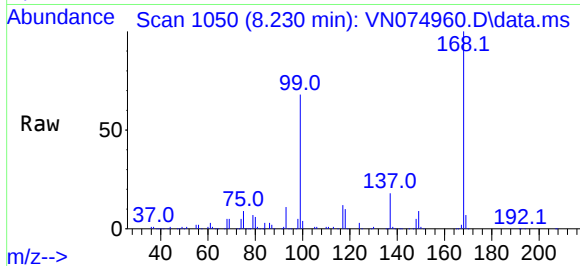




#31
Cyclohexane
Concen: 0.903 ug/l
RT: 8.230 min Scan# 1056
Delta R.T. -0.035 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

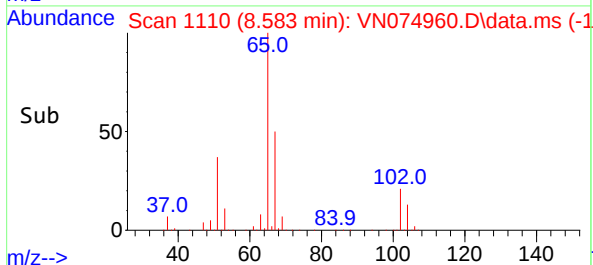
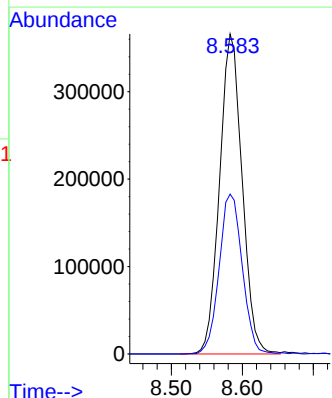
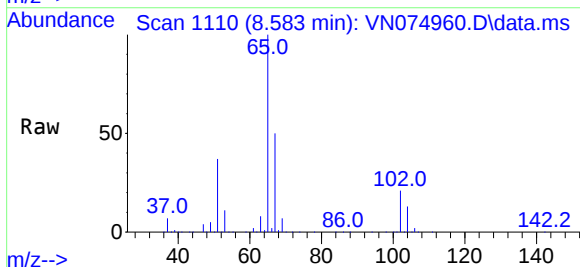
Instrument :
MSVOA_N
ClientSampleId :
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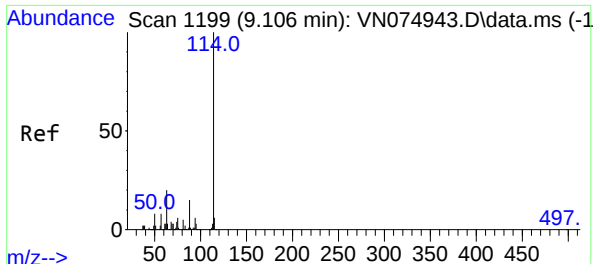
Tgt Ion: 56 Resp: 17955
Ion Ratio Lower Upper
56 100
69 196.2 24.2 36.2#
84 131.9 82.8 124.2#



#33
1,2-Dichloroethane-d4
Concen: 41.360 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. 0.000 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion: 65 Resp: 804796
Ion Ratio Lower Upper
65 100
67 51.2 0.0 102.6

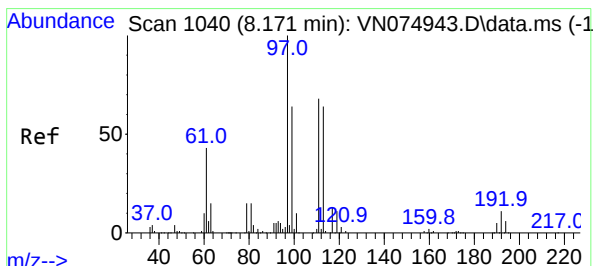
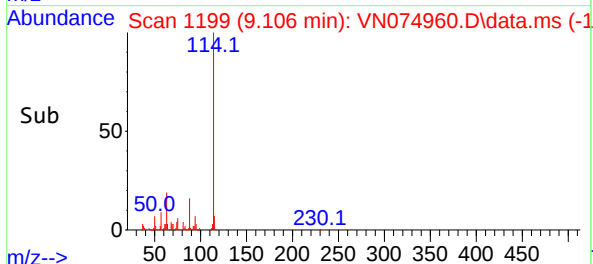
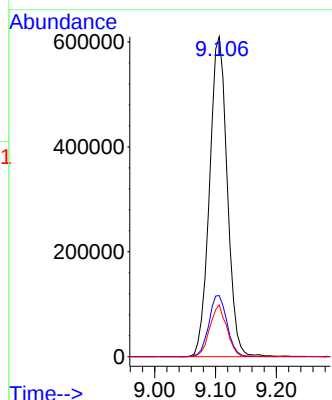
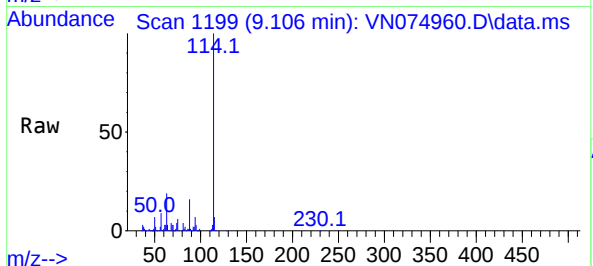




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. 0.000 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

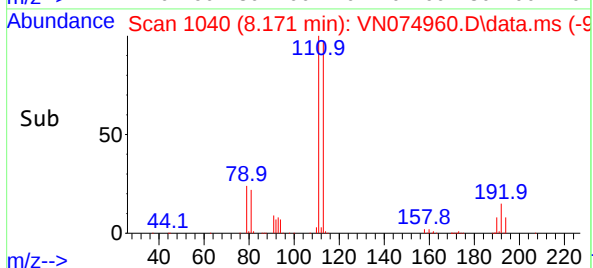
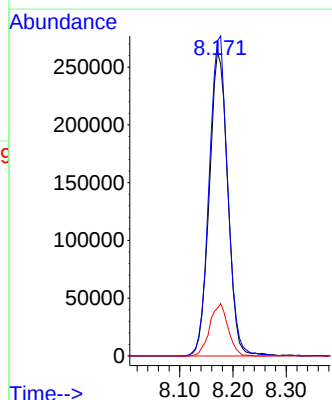
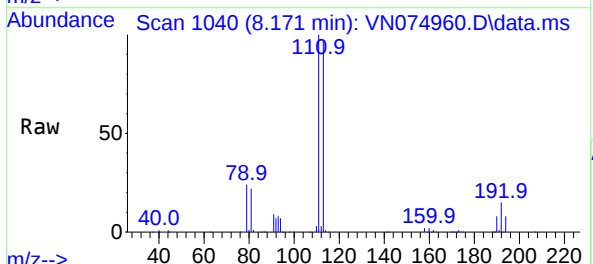
Instrument :
MSVOA_N
ClientSampleId :
MW-11

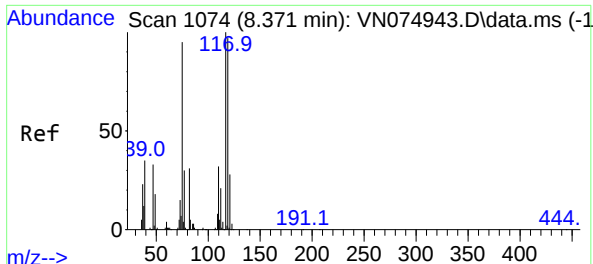
Tgt Ion:114 Resp: 1233452
Ion Ratio Lower Upper
114 100
63 19.1 0.0 39.8
88 16.2 0.0 30.4



#35
Dibromofluoromethane
Concen: 43.093 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion:113 Resp: 632659
Ion Ratio Lower Upper
113 100
111 105.3 83.4 125.2
192 17.0 13.3 19.9





#36

1,1-Dichloropropene

Concen: 3.544 ug/l

RT: 8.236 min Scan# 1051

Delta R.T. -0.135 min

Lab File: VN074960.D

Acq: 21 Oct 2022 14:35

Instrument :

MSVOA_N

ClientSampleId :

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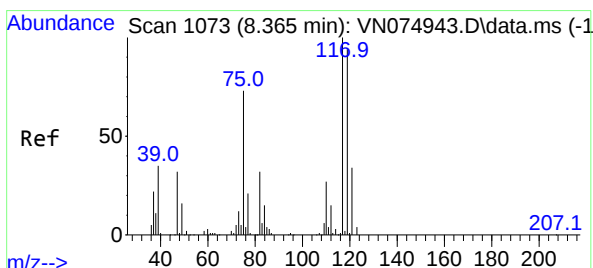
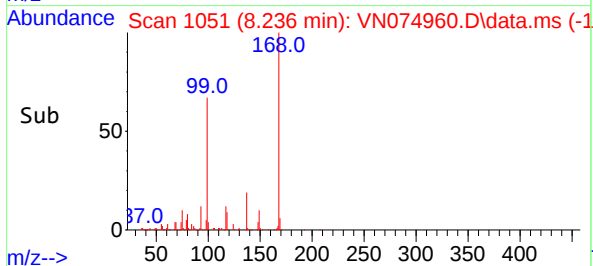
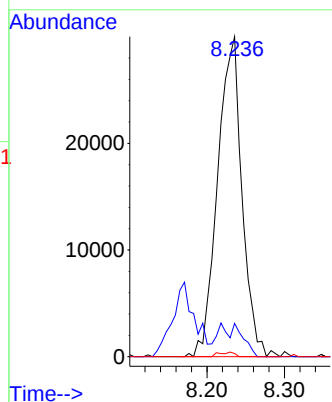
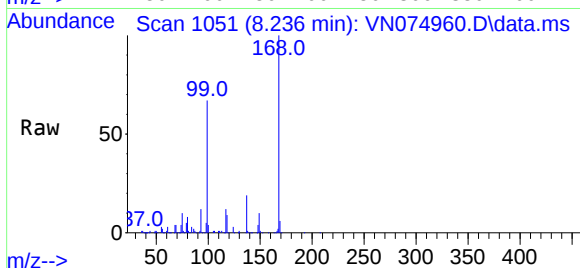
Tgt Ion: 75 Resp: 65523

Ion Ratio Lower Upper

75 100

110 2.3 18.1 54.4#

77 0.9 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 4.137 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.135 min

Lab File: VN074960.D

Acq: 21 Oct 2022 14:35

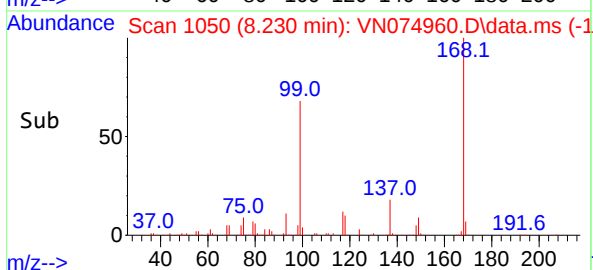
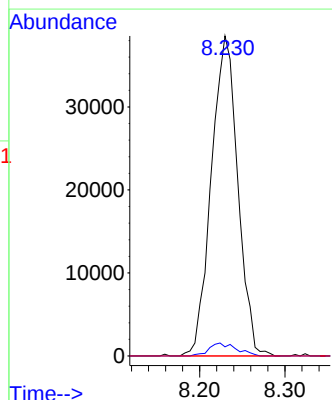
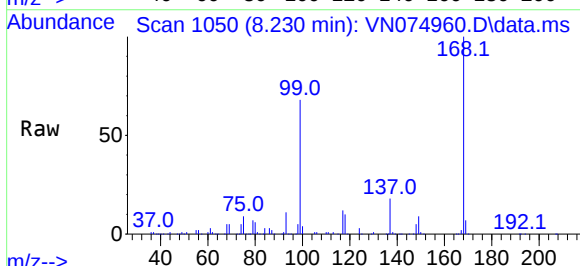
Tgt Ion: 117 Resp: 83273

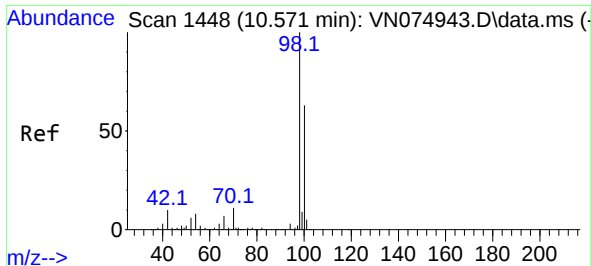
Ion Ratio Lower Upper

117 100

119 2.9 75.2 112.8#

121 0.0 27.0 40.6#

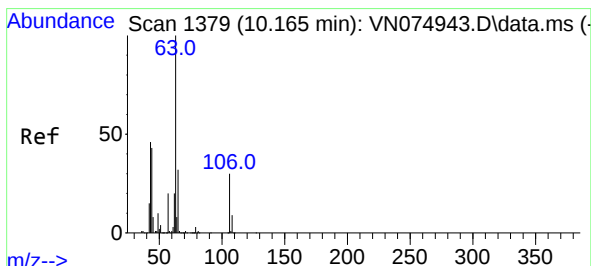
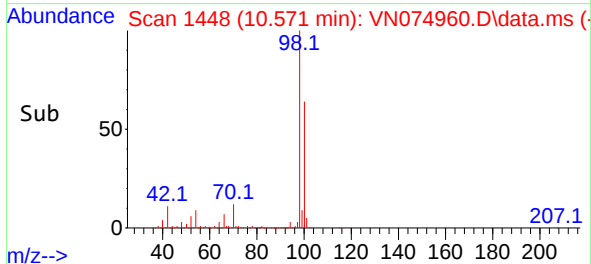
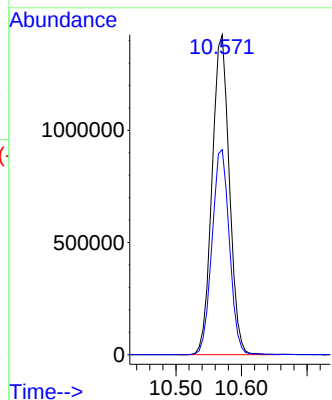
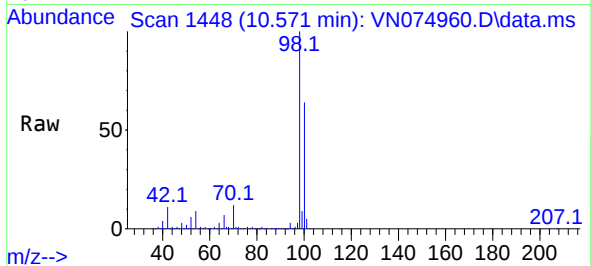




#50
Toluene-d8
Concen: 46.275 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

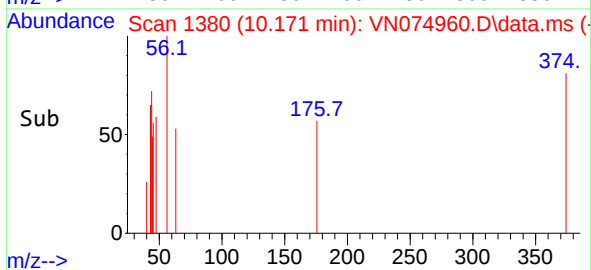
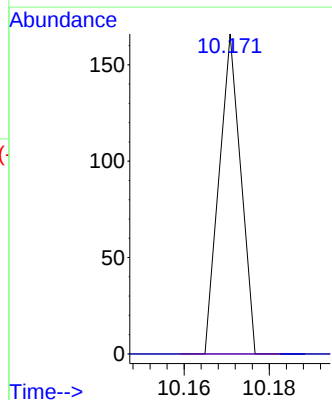
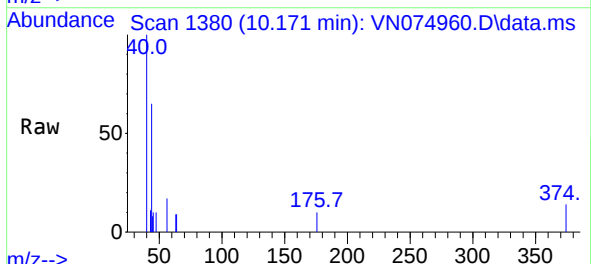
Instrument :
MSVOA_N
ClientSampleId :
MW-11

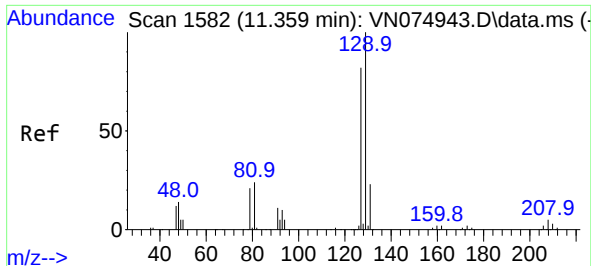
Tgt Ion: 98 Resp: 2606590
Ion Ratio Lower Upper
98 100
100 64.6 51.4 77.2



#58
2-Chloroethyl Vinyl ether
Concen: 3.614 ug/l
RT: 10.171 min Scan# 1380
Delta R.T. 0.006 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion: 63 Resp: 59
Ion Ratio Lower Upper
63 100
106 0.0 24.1 36.1#

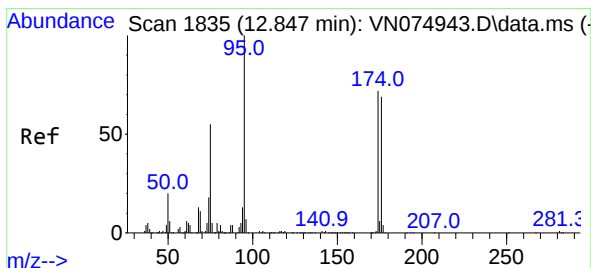
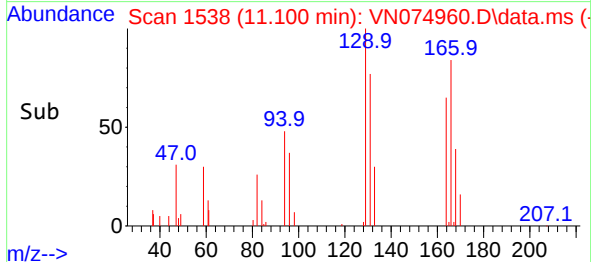
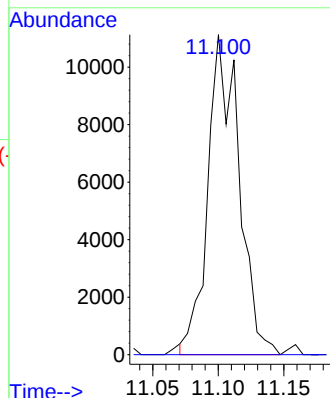
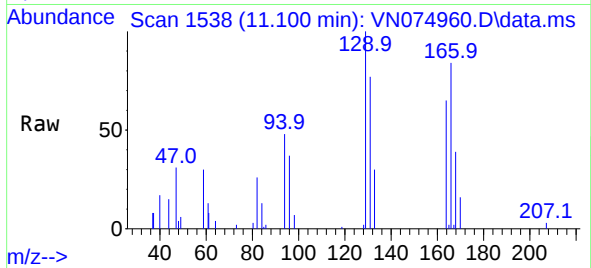




#60
Dibromochloromethane
Concen: 1.117 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.259 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

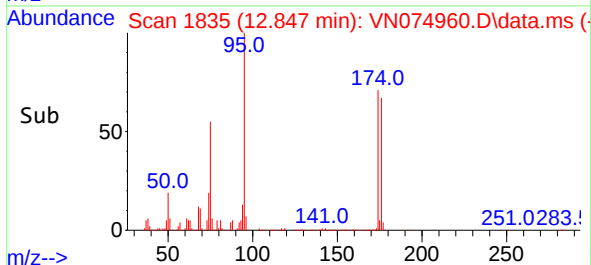
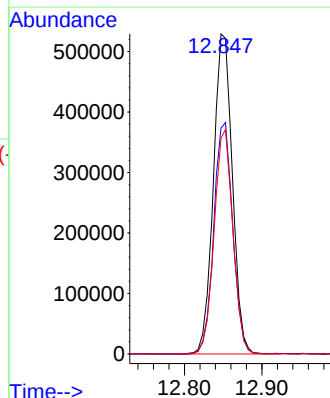
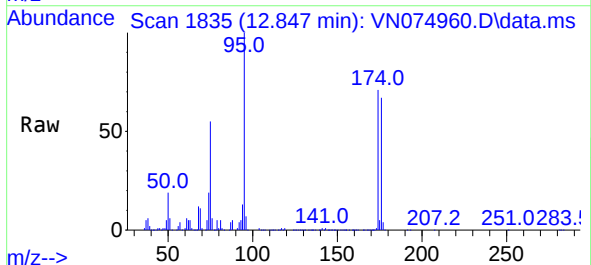
Instrument :
MSVOA_N
ClientSampleId :
MW-11

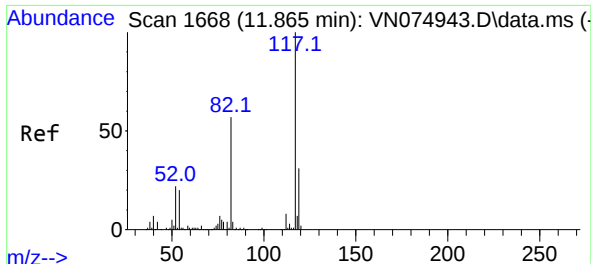
Tgt Ion:129 Resp: 18310
Ion Ratio Lower Upper
129 100
127 0.0 39.0 116.9#



#62
4-Bromofluorobenzene
Concen: 45.361 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.000 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion: 95 Resp: 901281
Ion Ratio Lower Upper
95 100
174 72.2 0.0 143.0
176 68.9 0.0 138.2

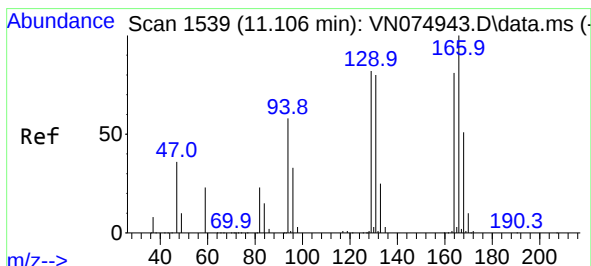
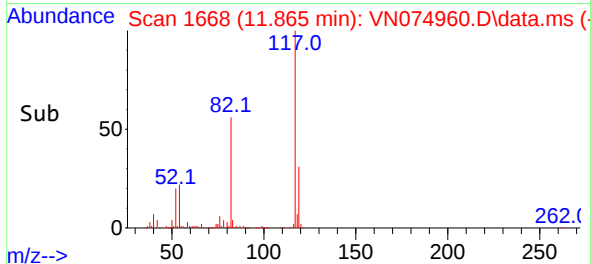
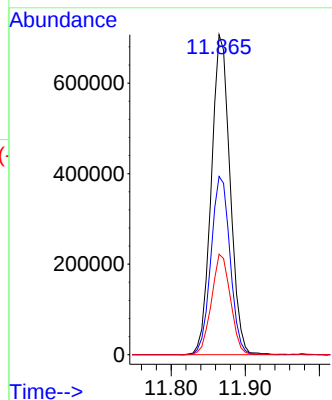
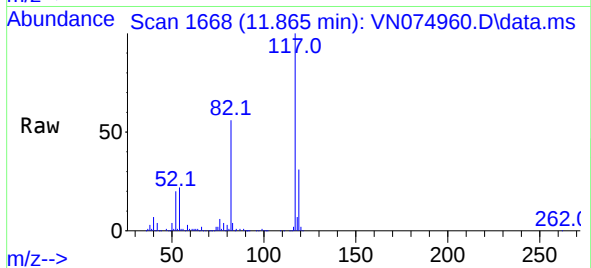




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. 0.000 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

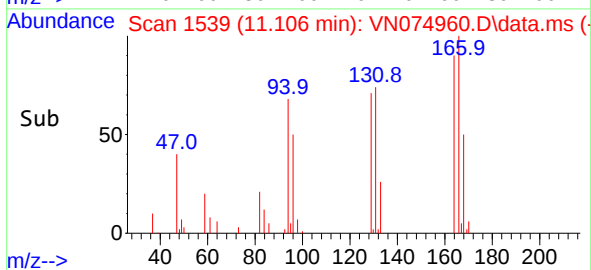
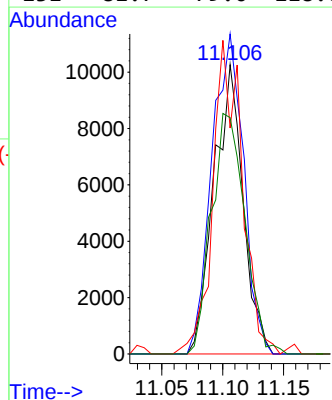
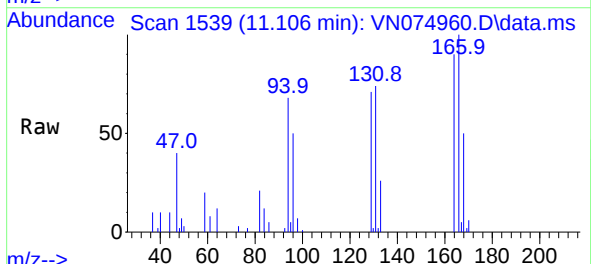
Instrument :
MSVOA_N
ClientSampleId :
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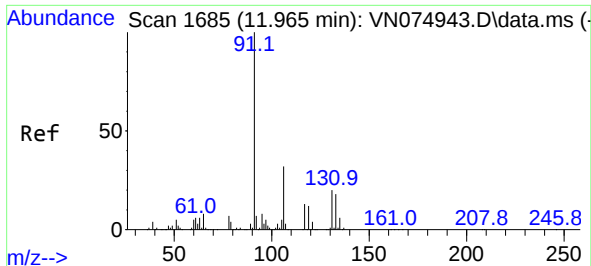
Tgt Ion:117 Resp: 1243726
Ion Ratio Lower Upper
117 100
82 55.7 45.6 68.4
119 31.4 25.1 37.7



#64
Tetrachloroethene
Concen: 1.679 ug/l
RT: 11.106 min Scan# 1539
Delta R.T. 0.000 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion:164 Resp: 17080
Ion Ratio Lower Upper
164 100
166 110.6 98.6 148.0
129 78.1 81.2 121.8#
131 81.7 79.0 118.6

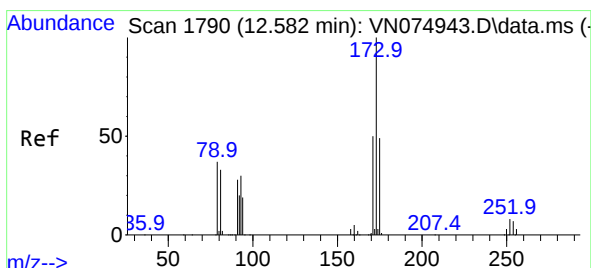
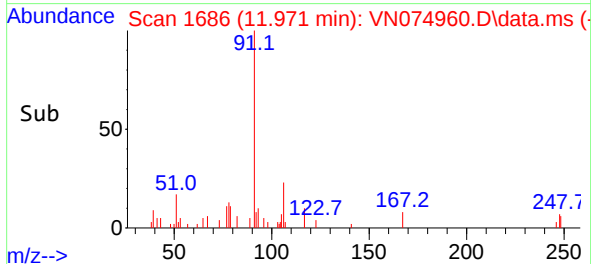
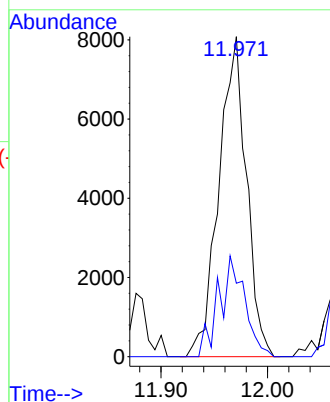
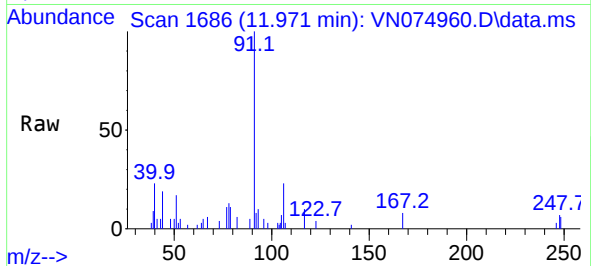




#67
Ethyl Benzene
Concen: 0.217 ug/l
RT: 11.971 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

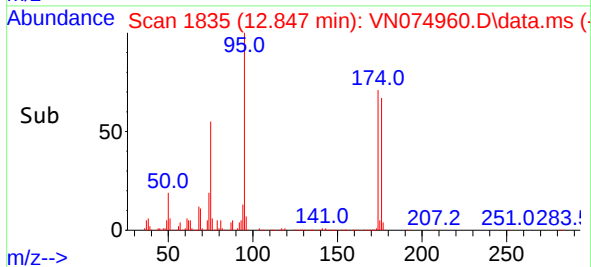
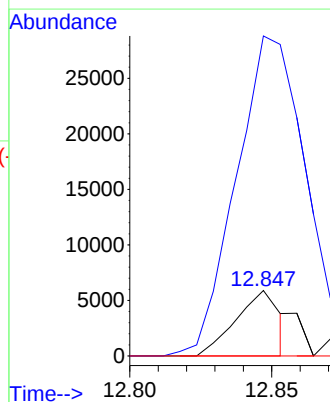
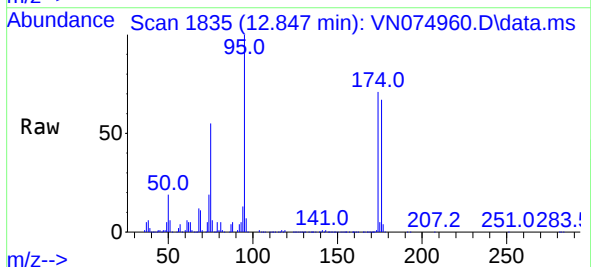
Instrument :
MSVOA_N
ClientSampleId :
MW-11

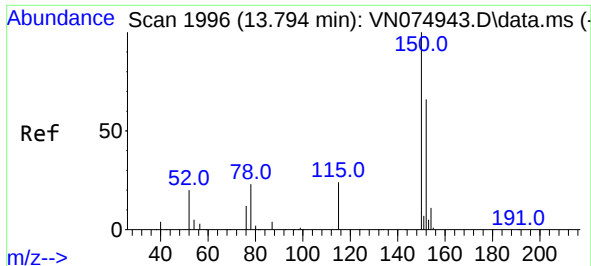
Tgt Ion: 91 Resp: 14517
Ion Ratio Lower Upper
91 100
106 22.9 25.4 38.2#



#71
Bromoform
Concen: 0.590 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion:173 Resp: 6316
Ion Ratio Lower Upper
173 100
175 668.3 24.8 74.3#
254 0.0 0.1 0.1#

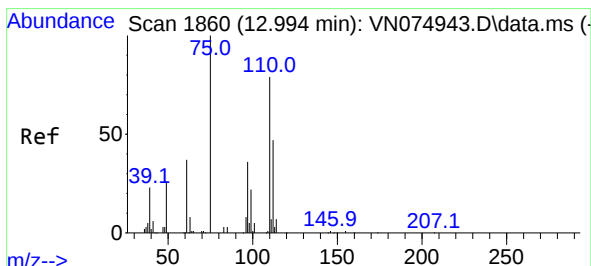
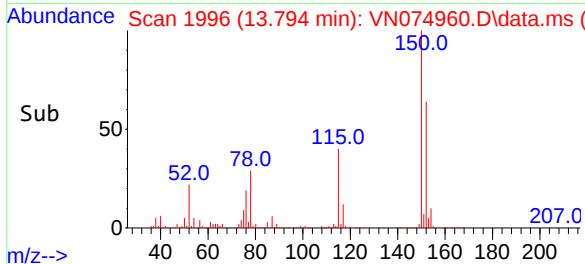
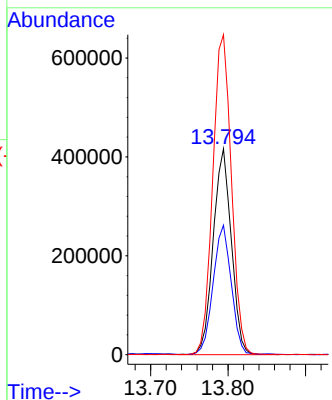
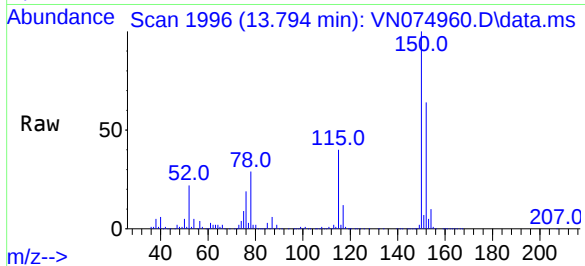




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

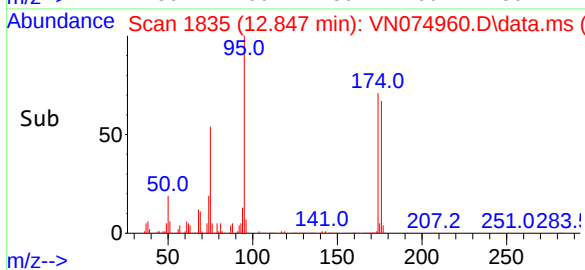
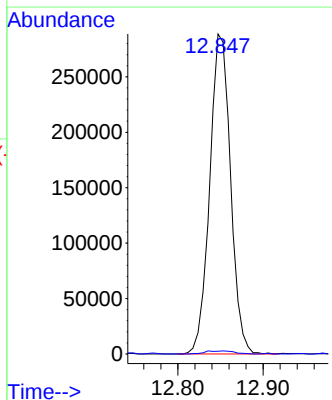
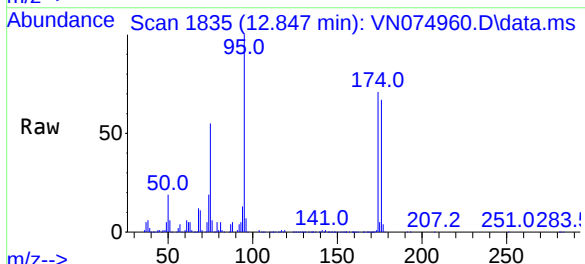
Instrument :
MSVOA_N
ClientSampleId :
MW-11

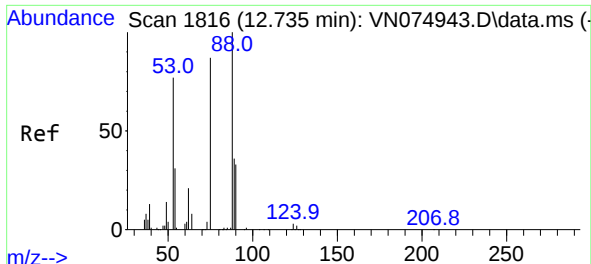
Tgt Ion:152 Resp: 678322
Ion Ratio Lower Upper
152 100
115 62.8 31.3 93.8
150 160.1 0.0 349.6



#76
1,2,3-Trichloropropane
Concen: 26.637 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.147 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion: 75 Resp: 490006
Ion Ratio Lower Upper
75 100
77 1.3 81.0 243.0#

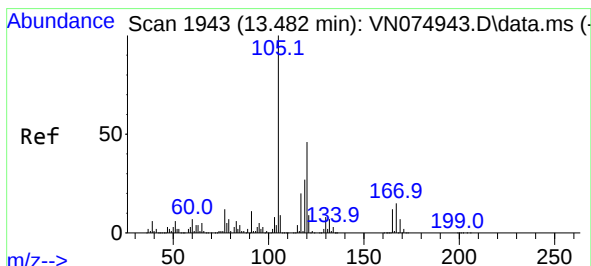
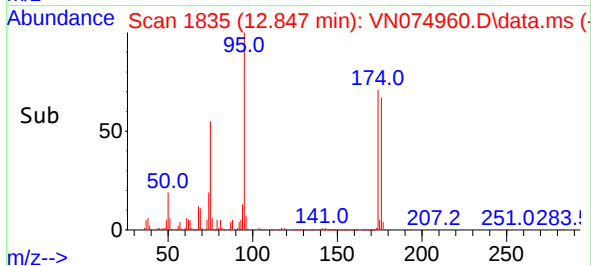
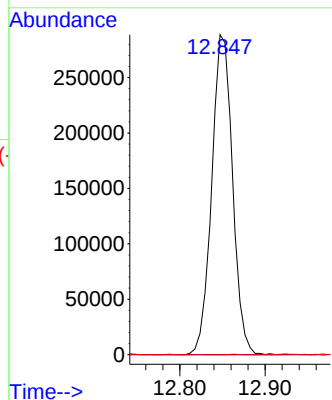
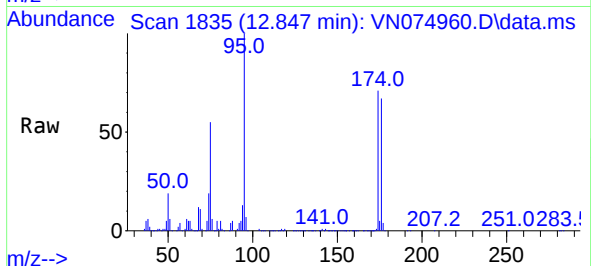




#81
trans-1,4-Dichloro-2-butene
Concen: 85.406 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.112 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

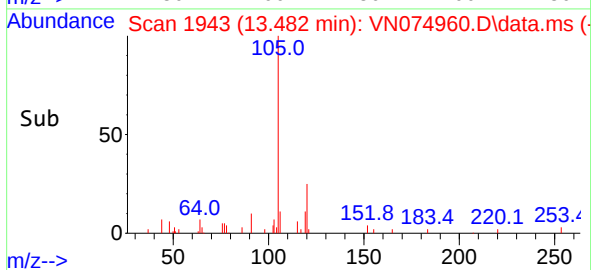
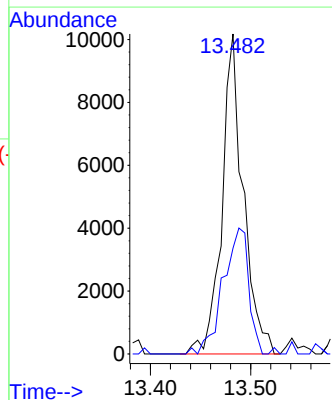
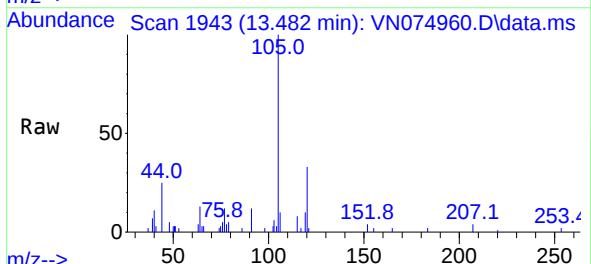
Instrument :
MSVOA_N
ClientSampleId :
MW-11

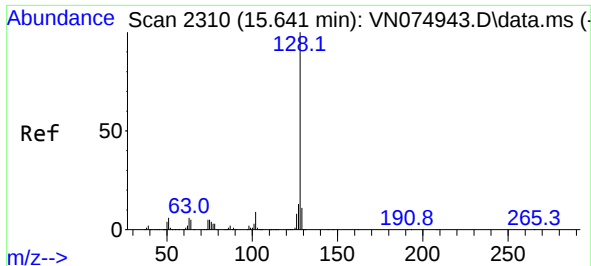
Tgt Ion: 75 Resp: 490006
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 37.9 56.9#



#84
1,2,4-Trimethylbenzene
Concen: 0.309 ug/l
RT: 13.482 min Scan# 1943
Delta R.T. 0.000 min
Lab File: VN074960.D
Acq: 21 Oct 2022 14:35

Tgt Ion: 105 Resp: 14923
Ion Ratio Lower Upper
105 100
120 47.3 22.9 68.5





#95

Naphthalene

Concen: 7.009 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN074960.D

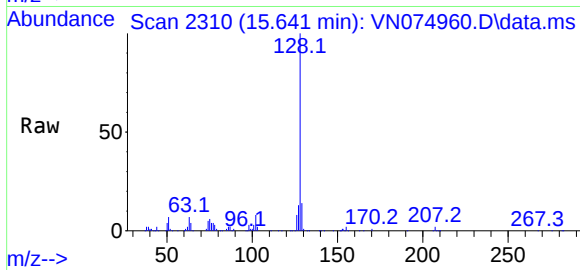
Acq: 21 Oct 2022 14:35

Instrument :

MSVOA_N

ClientSampleId :

MW-11



Tgt Ion:128 Resp: 288840

Ion Ratio Lower Upper

128 100

127 13.7 10.4 15.6

129 10.4 8.6 12.8

