

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102122\
 Data File : VN074974.D
 Acq On : 21 Oct 2022 20:13
 Operator : JC\MD
 Sample : N5222-20
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-BLANK

Quant Time: Oct 22 02:56:39 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)

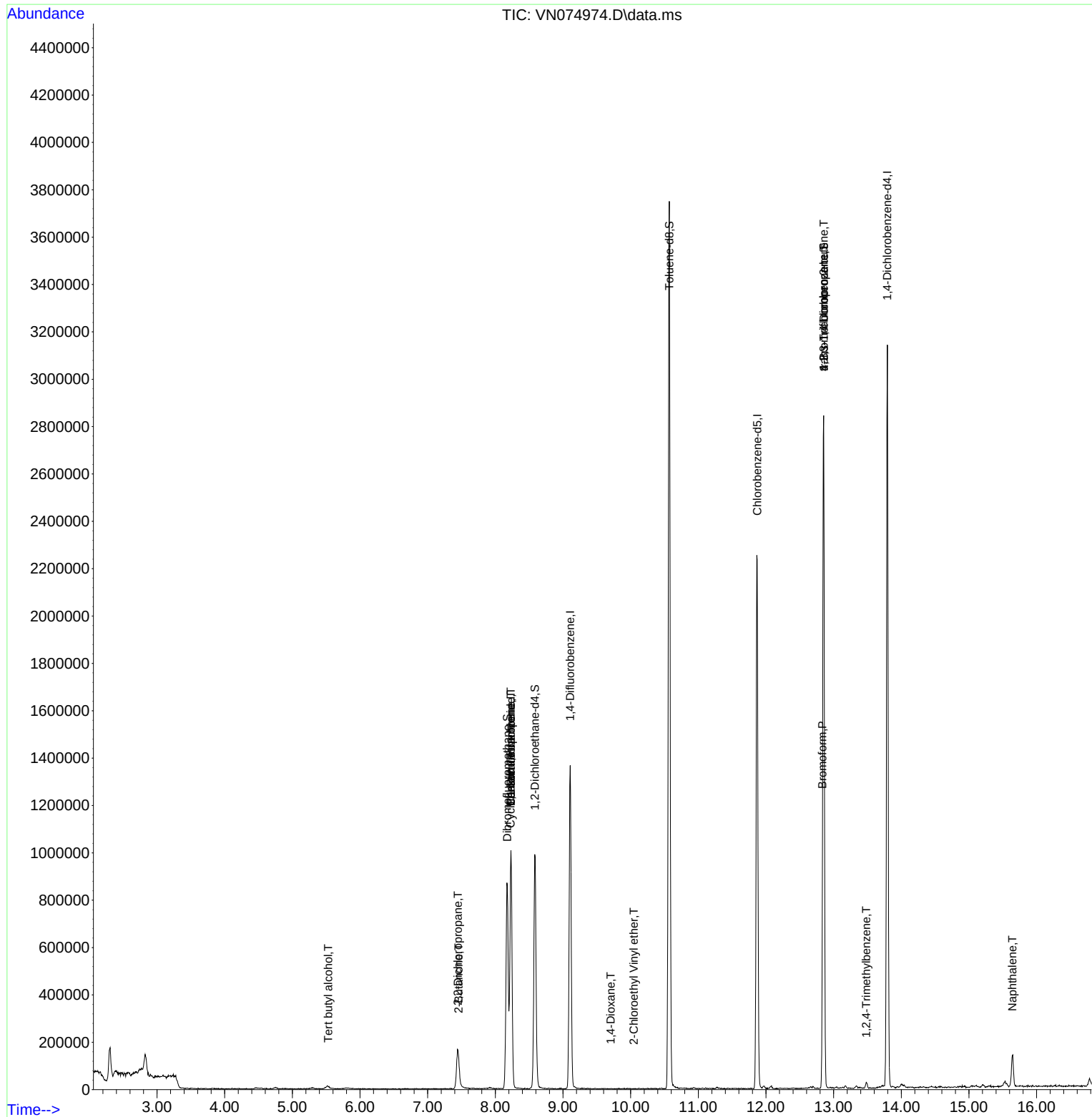
Internal Standards						
1) Pentafluorobenzene	8.230	168	690736	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	1192882	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	1295714	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	791629	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	806192	43.929	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.860%		
35) Dibromofluoromethane	8.177	113	604788	42.596	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	85.200%		
50) Toluene-d8	10.571	98	2624913	48.185	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.380%		
62) 4-Bromofluorobenzene	12.853	95	967411	50.345	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	100.680%		
Target Compounds					Qvalue	
3) Chloromethane	2.377	50	2922	Below Cal		98
4) Vinyl Chloride	2.524	62	128	Below Cal	#	44
5) Bromomethane	2.930	94	111	Below Cal	#	4
6) Chloroethane	3.048	64	2691	Below Cal		93
7) Trichlorofluoromethane	3.500	101	60	Below Cal	#	18
11) Tert butyl alcohol	5.530	59	4496	1.159 ug/l	#	77
12) 1,1-Dichloroethene	4.171	96	86	Below Cal	#	1
13) Acrolein	4.183	56	171	Below Cal	#	16
16) Acetone	4.453	43	4480	Below Cal		100
17) Carbon Disulfide	4.718	76	704	Below Cal	#	74
20) Methylene Chloride	5.283	84	3217	Below Cal	#	54
21) trans-1,2-Dichloroethene	5.818	96	131	Below Cal	#	1
25) 2-Butanone	7.459	43	9988	0.893 ug/l	#	73
26) 2,2-Dichloropropane	7.447	77	12129	0.540 ug/l	#	53
31) Cyclohexane	8.224	56	16995	0.906 ug/l	#	32
36) 1,1-Dichloropropene	8.230	75	62162	3.476 ug/l	#	51
38) Carbon Tetrachloride	8.230	117	75526	3.880 ug/l	#	16
49) 1,4-Dioxane	9.706	88	381	0.923 ug/l	#	21
58) 2-Chloroethyl Vinyl ether	10.047	63	75	3.616 ug/l	#	45
71) Bromoform	12.835	173	2827	0.254 ug/l	#	1
76) 1,2,3-Trichloropropane	12.853	75	544113	25.345 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	544113	81.262 ug/l	#	10
84) 1,2,4-Trimethylbenzene	13.482	105	13177	0.234 ug/l		96
95) Naphthalene	15.641	128	135337	2.814 ug/l		99

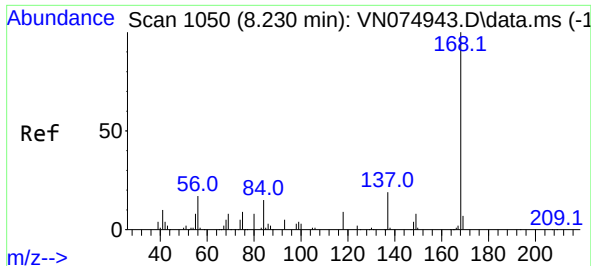
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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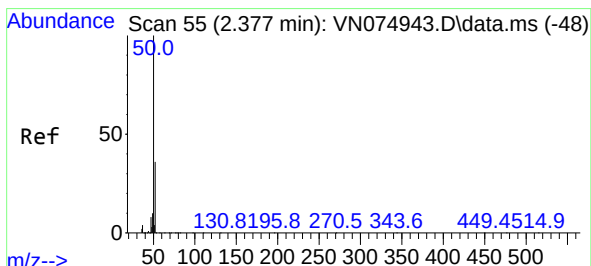
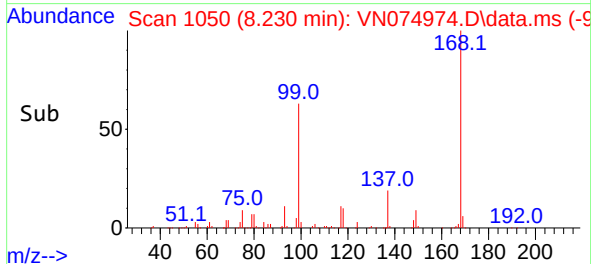
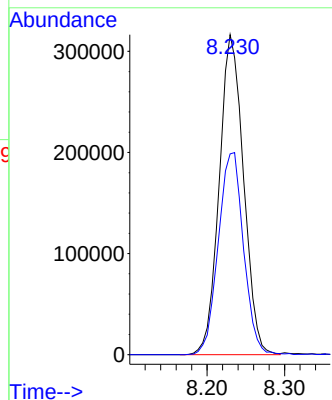
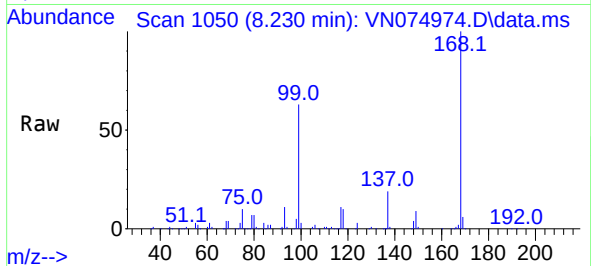




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

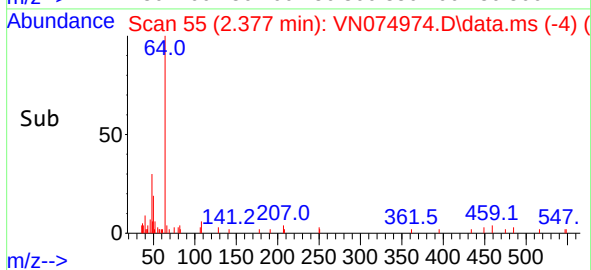
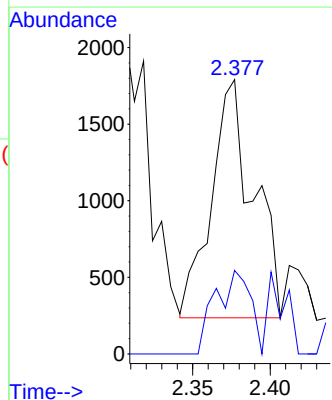
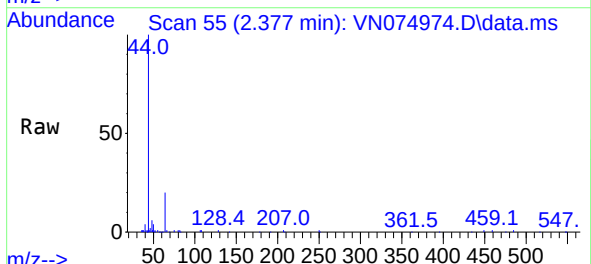
Instrument :
MSVOA_N
ClientSampleId :
TRIP-BLANK

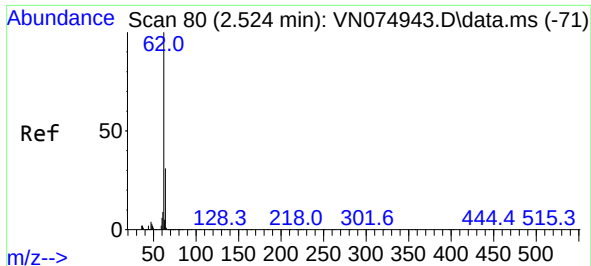
Tgt Ion:168 Resp: 690736
Ion Ratio Lower Upper
168 100
99 62.7 52.2 78.4



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 55
Delta R.T. 0.000 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion: 50 Resp: 2922
Ion Ratio Lower Upper
50 100
52 35.0 28.8 43.2

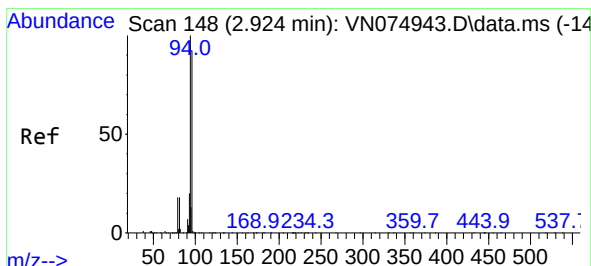
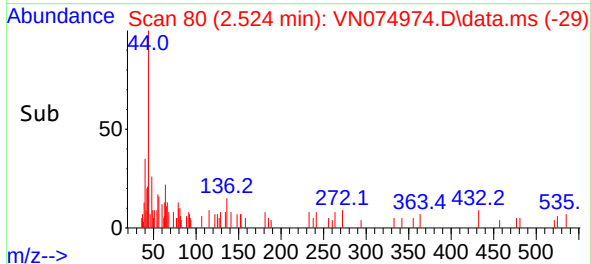
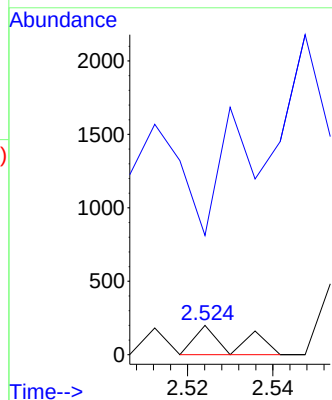
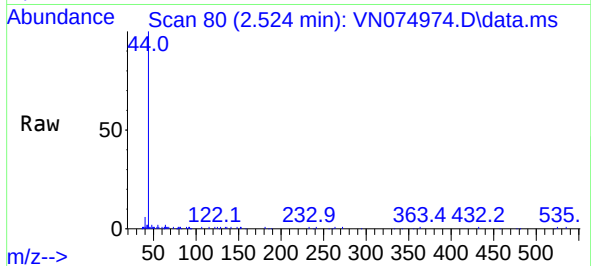




#4
 Vinyl Chloride
 Concen: Below Cal
 RT: 2.524 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: VN074974.D
 Acq: 21 Oct 2022 20:13

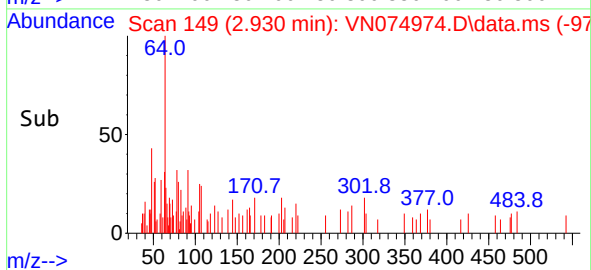
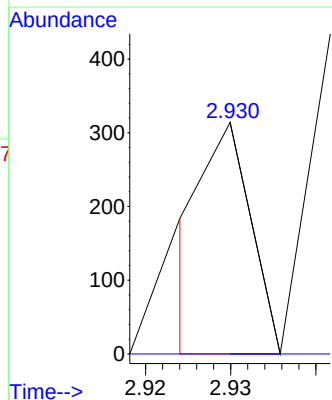
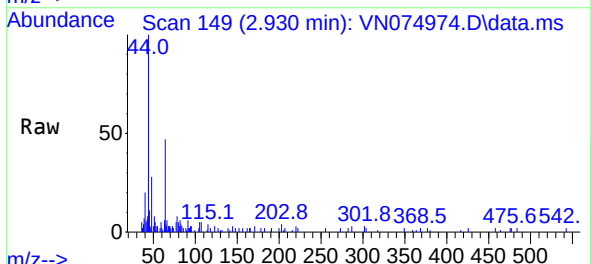
Instrument :
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 ClientSampleId :
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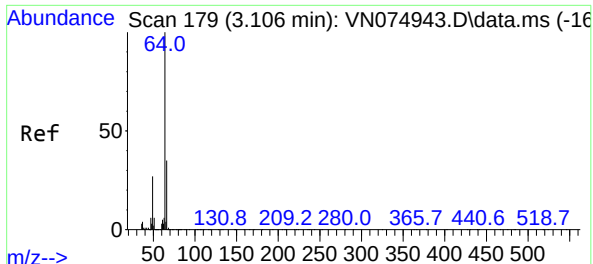
Tgt Ion: 62 Resp: 128
 Ion Ratio Lower Upper
 62 100
 64 0.0 24.5 36.7#



#5
 Bromomethane
 Concen: Below Cal
 RT: 2.930 min Scan# 149
 Delta R.T. 0.006 min
 Lab File: VN074974.D
 Acq: 21 Oct 2022 20:13

Tgt Ion: 94 Resp: 111
 Ion Ratio Lower Upper
 94 100
 96 0.0 73.5 110.3#

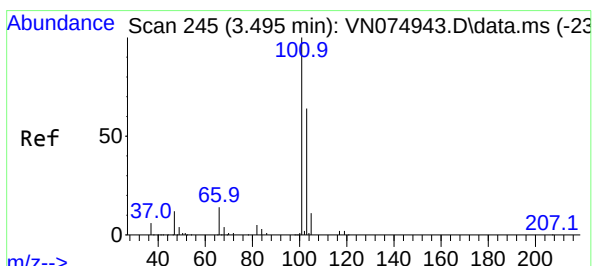
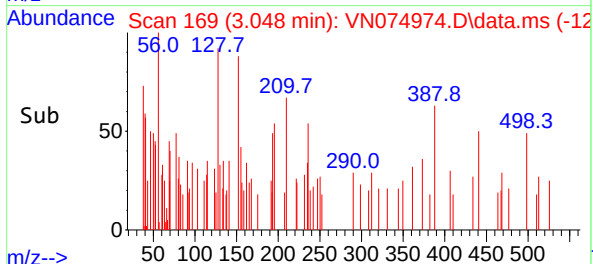
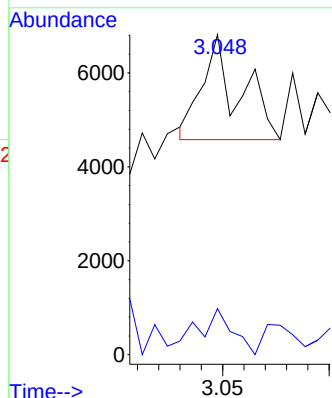
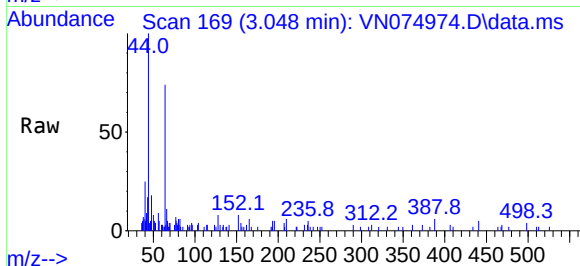




#6
Chloroethane
Concen: Below Cal
RT: 3.048 min Scan# 1
Delta R.T. -0.058 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

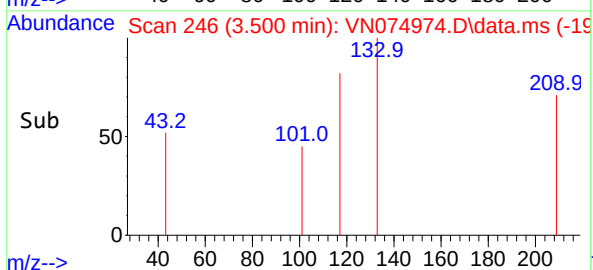
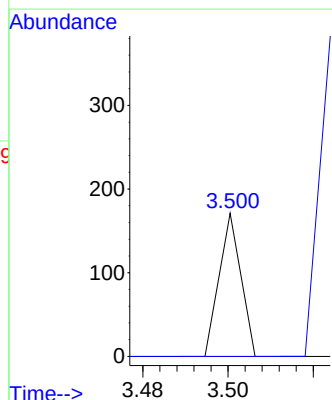
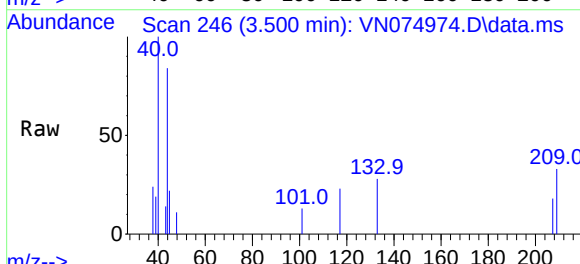
Instrument :
MSVOA_N
ClientSampleId :
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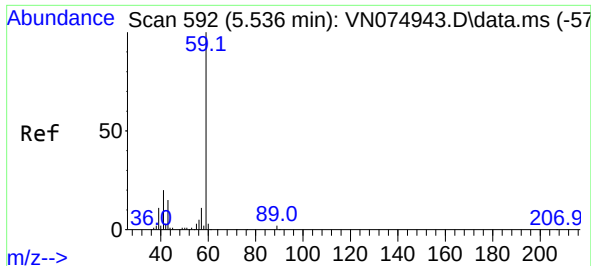
Tgt Ion: 64 Resp: 2691
Ion Ratio Lower Upper
64 100
66 30.9 27.9 41.9



#7
Trichlorofluoromethane
Concen: Below Cal
RT: 3.500 min Scan# 246
Delta R.T. 0.005 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion: 101 Resp: 60
Ion Ratio Lower Upper
101 100
103 0.0 51.5 77.3#

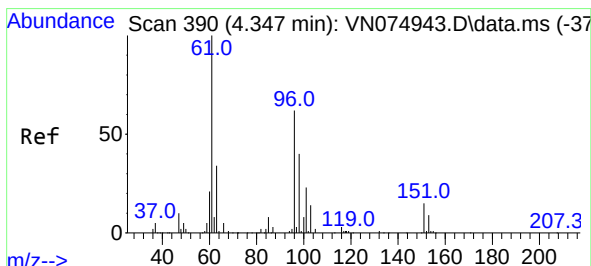
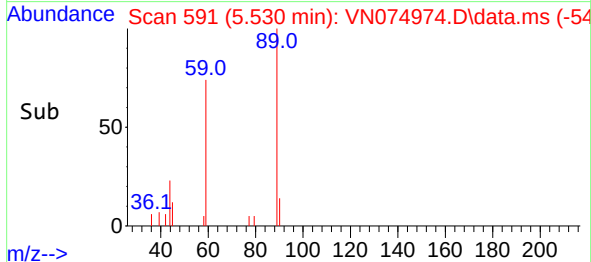
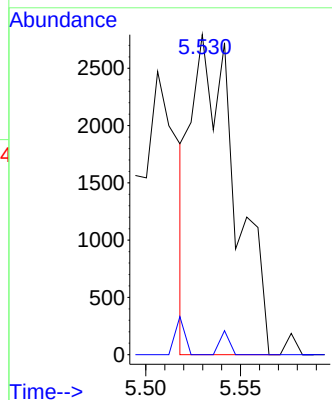
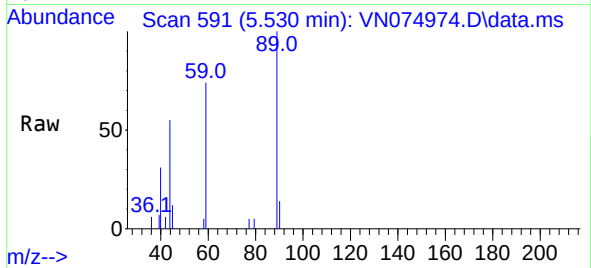




#11
Tert butyl alcohol
Concen: 1.159 ug/l
RT: 5.530 min Scan# 591
Delta R.T. -0.006 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

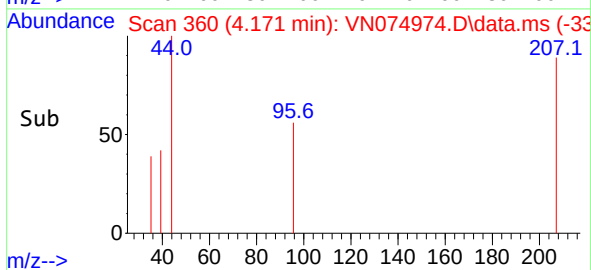
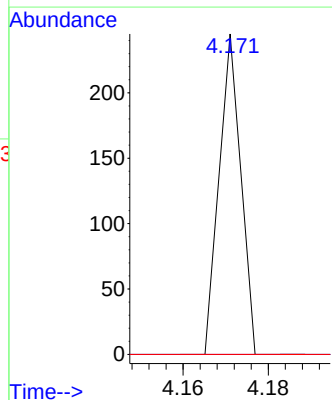
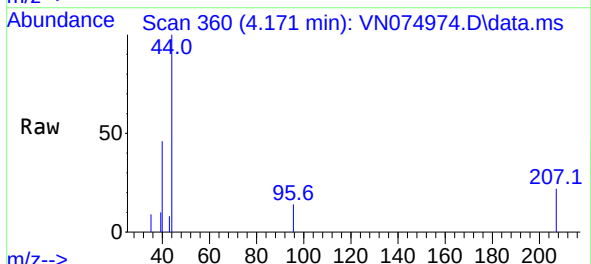
Instrument :
MSVOA_N
ClientSampleId :
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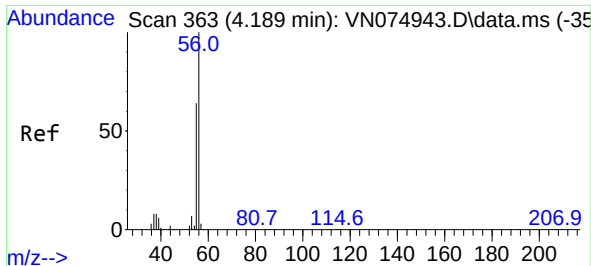
Tgt Ion: 59 Resp: 4496
Ion Ratio Lower Upper
59 100
57 1.6 8.2 12.4#



#12
1,1-Dichloroethene
Concen: Below Cal
RT: 4.171 min Scan# 360
Delta R.T. -0.176 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion: 96 Resp: 86
Ion Ratio Lower Upper
96 100
61 0.0 128.9 193.3#
98 0.0 51.8 77.8#

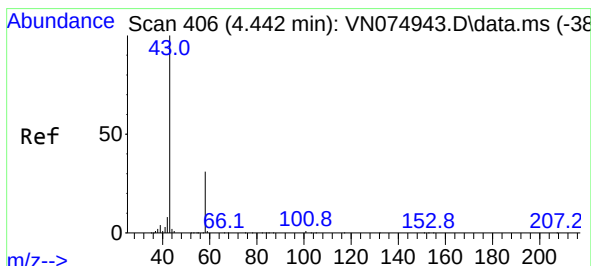
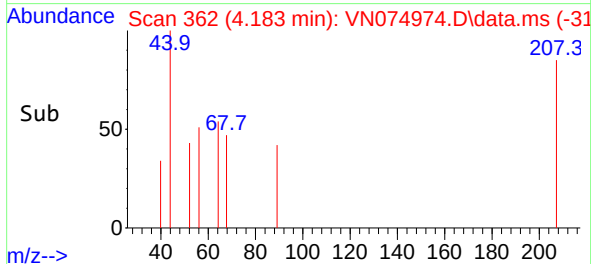
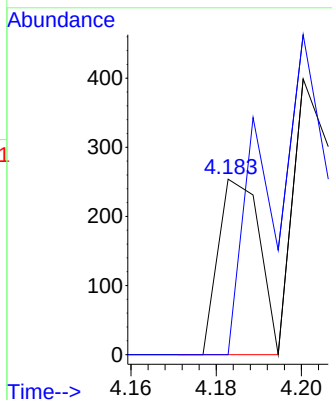
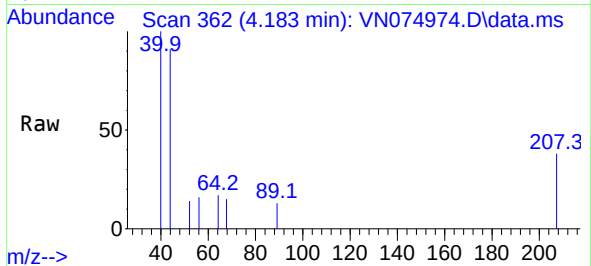




#13
Acrolein
Concen: Below Cal
RT: 4.183 min Scan# 30
Delta R.T. -0.006 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

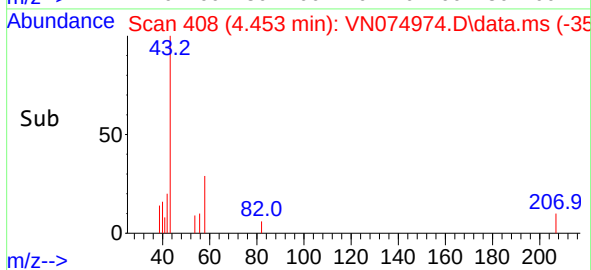
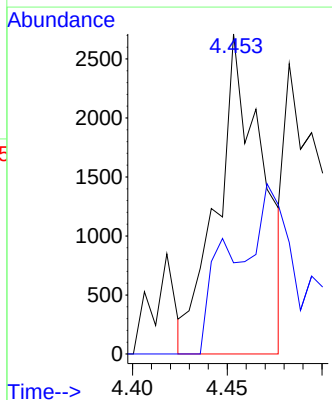
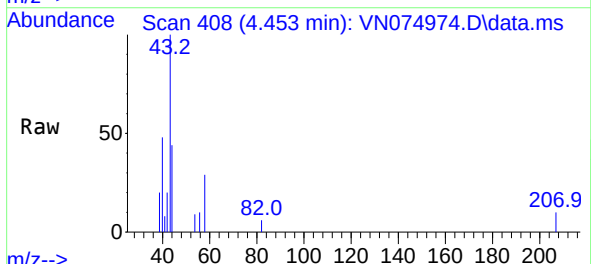
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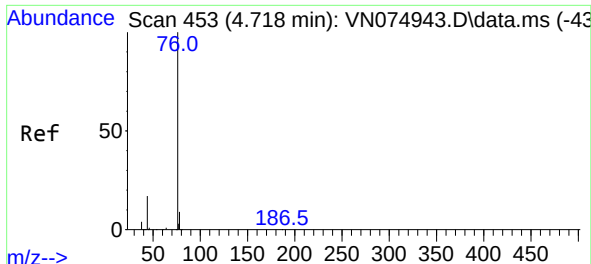
Tgt Ion: 56 Resp: 171
Ion Ratio Lower Upper
56 100
55 0.0 53.7 80.5#



#16
Acetone
Concen: Below Cal
RT: 4.453 min Scan# 408
Delta R.T. 0.011 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion: 43 Resp: 4480
Ion Ratio Lower Upper
43 100
58 32.0 25.7 38.5

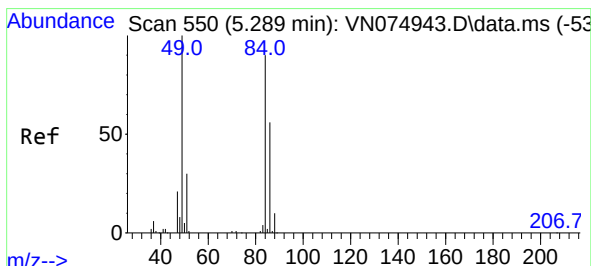
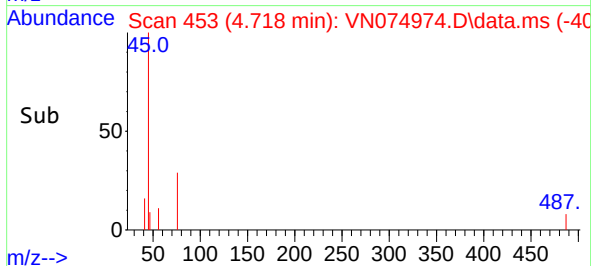
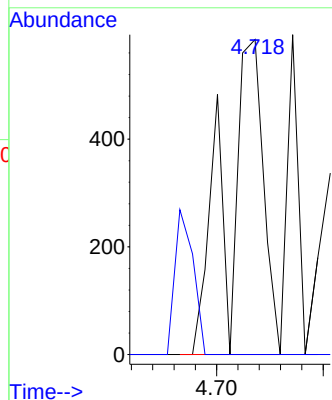
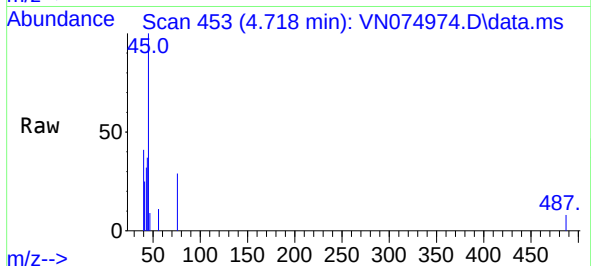




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.718 min Scan# 417
Delta R.T. 0.000 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

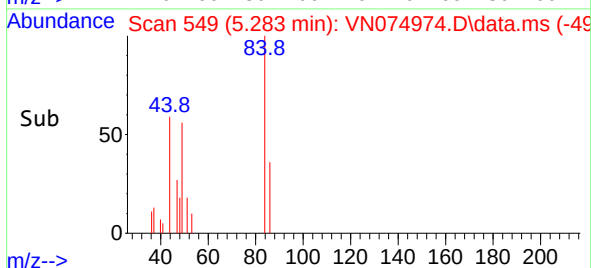
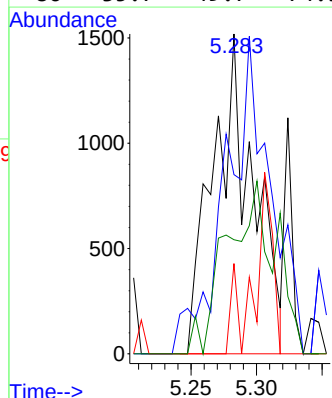
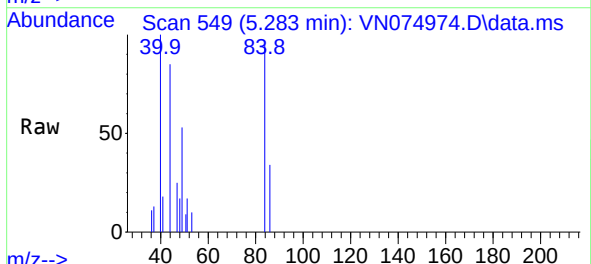
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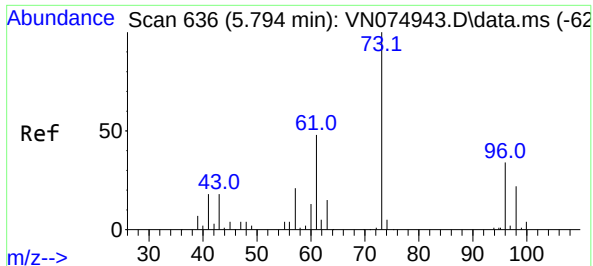
Tgt Ion: 76 Resp: 704
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 549
Delta R.T. -0.006 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion: 84 Resp: 3217
Ion Ratio Lower Upper
84 100
49 43.6 88.6 133.0#
51 28.2 26.7 40.1
86 35.7 49.7 74.5#

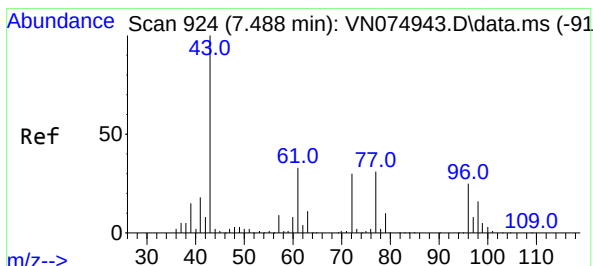
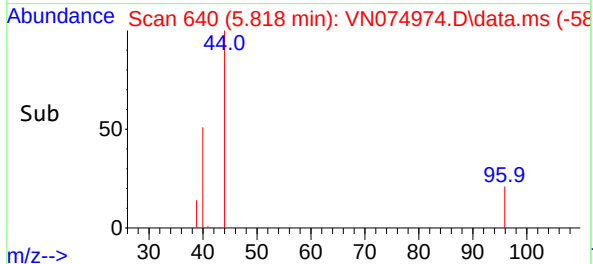
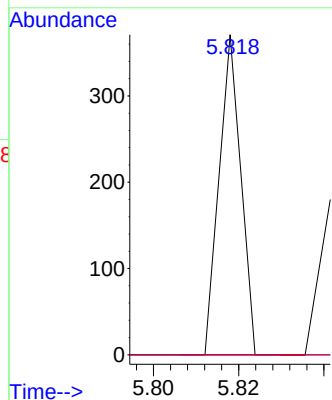
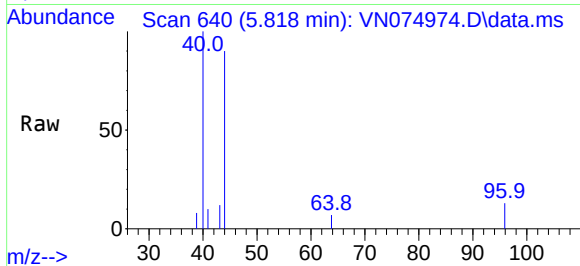




#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.818 min Scan# 640
Delta R.T. 0.024 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

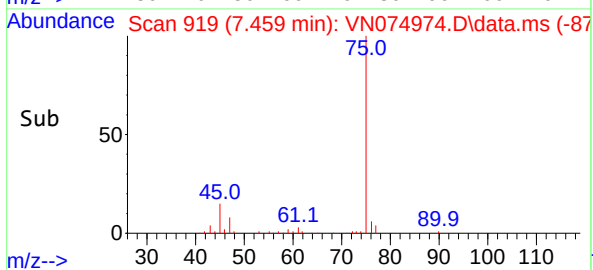
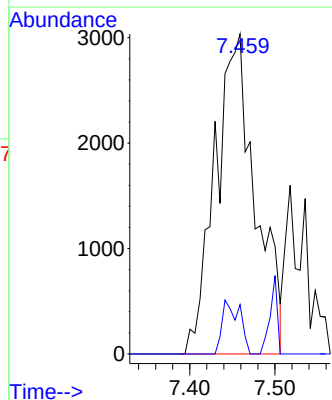
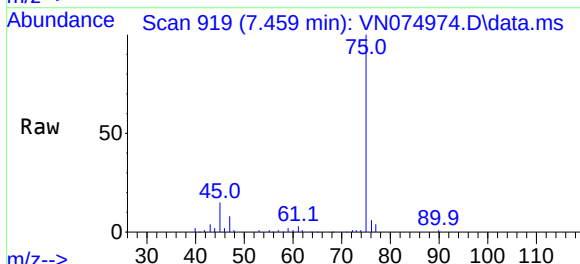
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MSVOA_N
ClientSampleId :
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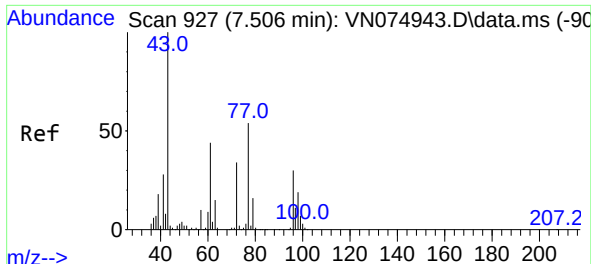
Tgt Ion: 96 Resp: 131
Ion Ratio Lower Upper
96 100
61 0.0 112.6 169.0#
98 0.0 52.4 78.6#



#25
2-Butanone
Concen: 0.893 ug/l
RT: 7.459 min Scan# 919
Delta R.T. -0.029 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion: 43 Resp: 9988
Ion Ratio Lower Upper
43 100
72 15.5 23.9 35.9#





#26

2,2-Dichloropropane

Concen: 0.540 ug/l

RT: 7.447 min Scan# 91

Delta R.T. -0.059 min

Lab File: VN074974.D

Acq: 21 Oct 2022 20:13

Instrument :

MSVOA_N

ClientSampleId :

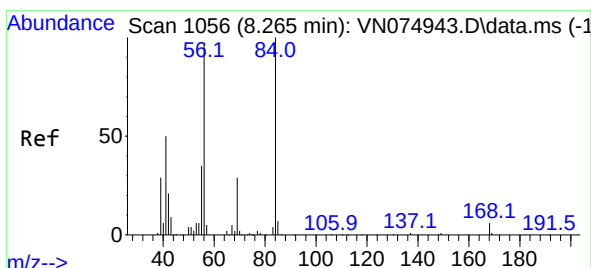
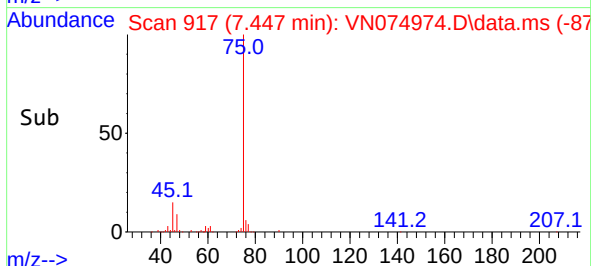
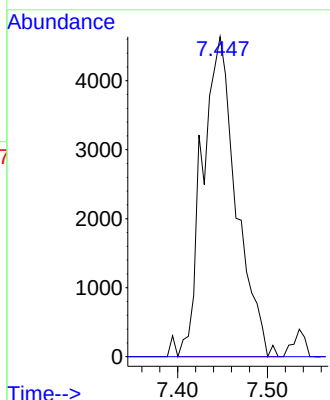
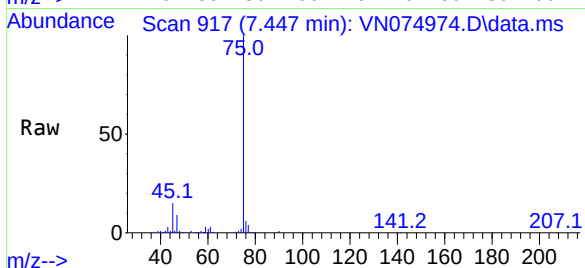
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Tgt Ion: 77 Resp: 12129

Ion Ratio Lower Upper

77 100

97 0.0 11.3 33.8#



#31

Cyclohexane

Concen: 0.906 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.041 min

Lab File: VN074974.D

Acq: 21 Oct 2022 20:13

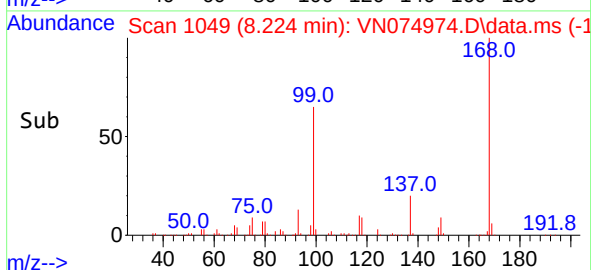
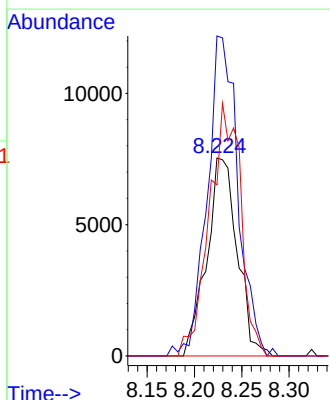
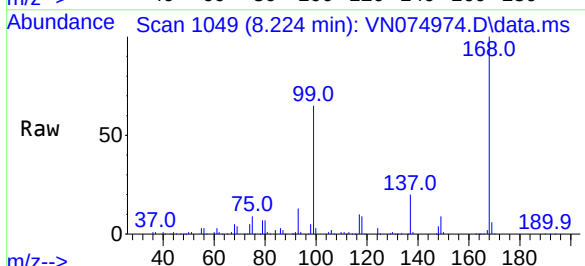
Tgt Ion: 56 Resp: 16995

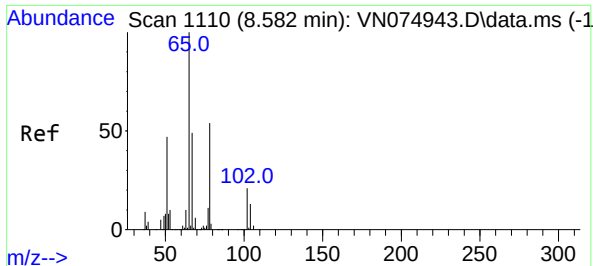
Ion Ratio Lower Upper

56 100

69 161.6 24.2 36.2#

84 86.4 82.8 124.2

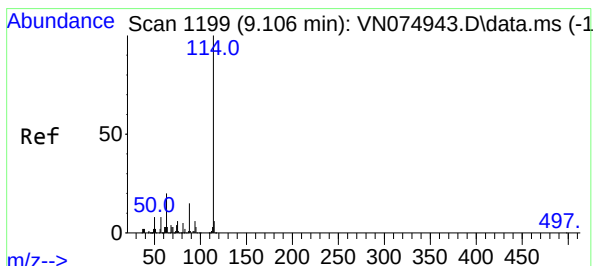
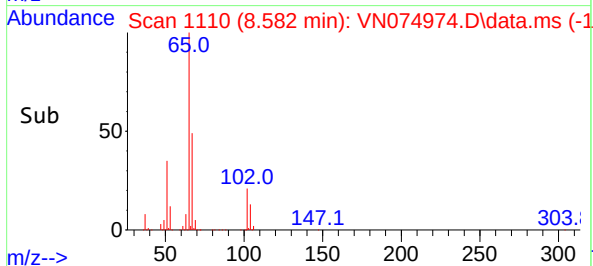
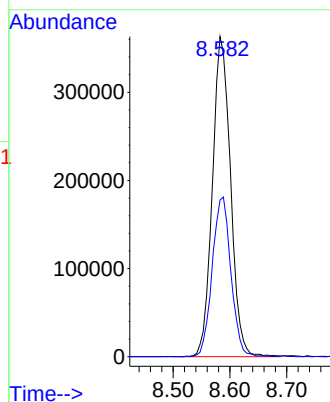
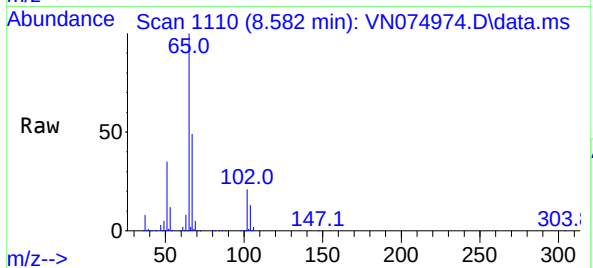




#33
1,2-Dichloroethane-d4
Concen: 43.929 ug/l
RT: 8.582 min Scan# 1110
Delta R.T. 0.000 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

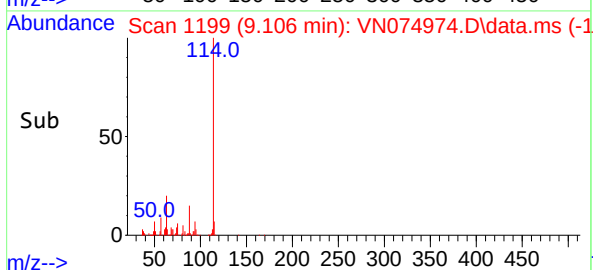
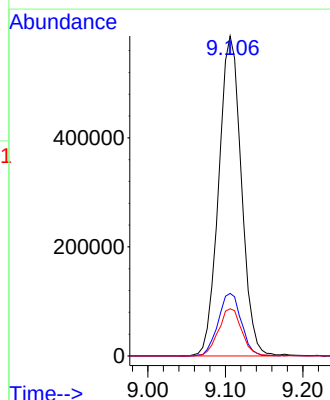
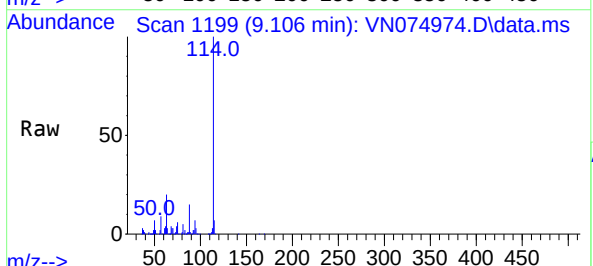
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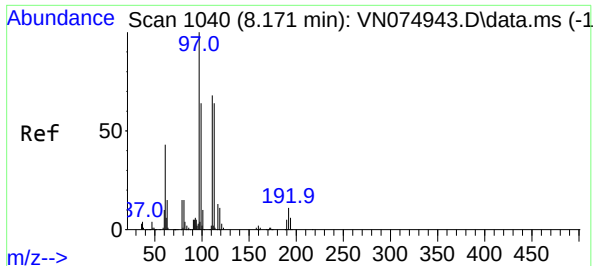
Tgt Ion: 65 Resp: 806192
Ion Ratio Lower Upper
65 100
67 51.2 0.0 102.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. 0.000 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion: 114 Resp: 1192882
Ion Ratio Lower Upper
114 100
63 19.6 0.0 39.8
88 14.7 0.0 30.4

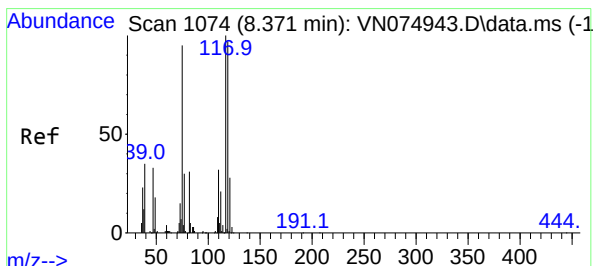
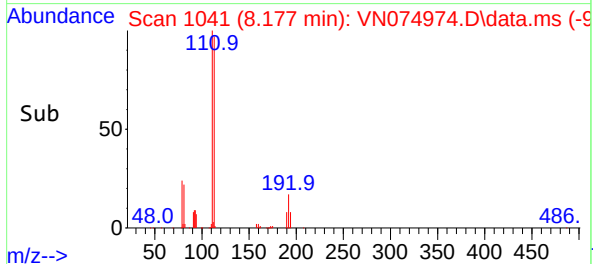
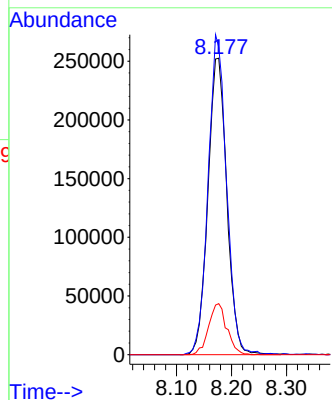
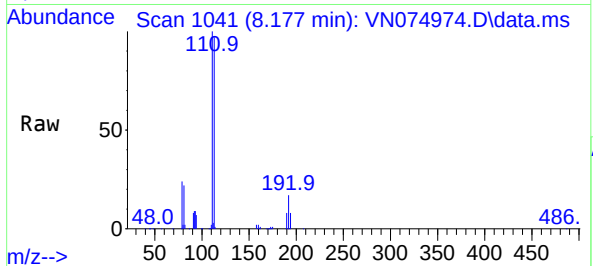




#35
Dibromofluoromethane
Concen: 42.596 ug/l
RT: 8.177 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

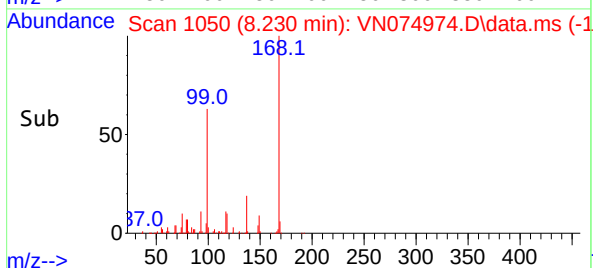
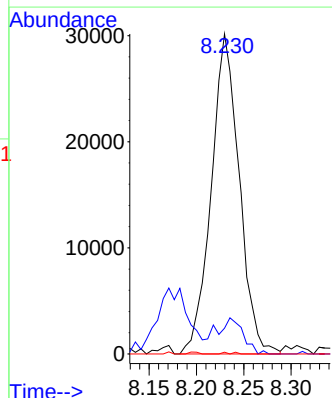
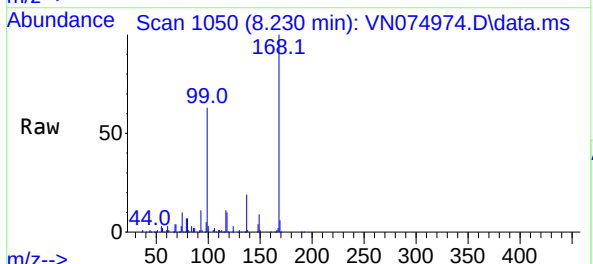
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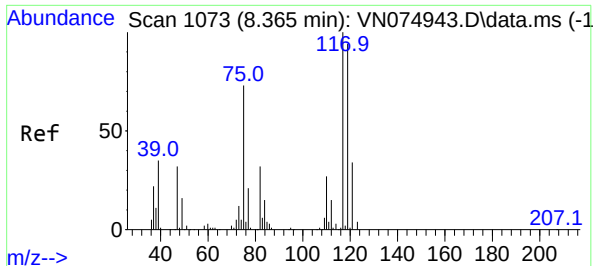
Tgt Ion:113 Resp: 604788
Ion Ratio Lower Upper
113 100
111 104.6 83.4 125.2
192 16.6 13.3 19.9



#36
1,1-Dichloropropene
Concen: 3.476 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.141 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion: 75 Resp: 62162
Ion Ratio Lower Upper
75 100
110 11.1 18.1 54.4#
77 0.2 25.0 37.4#

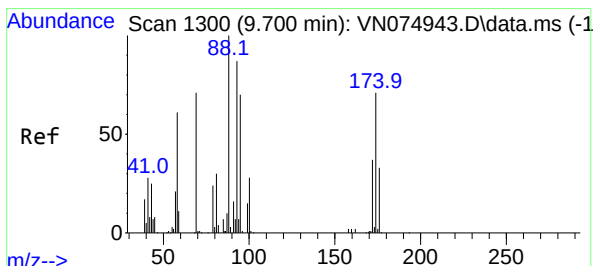
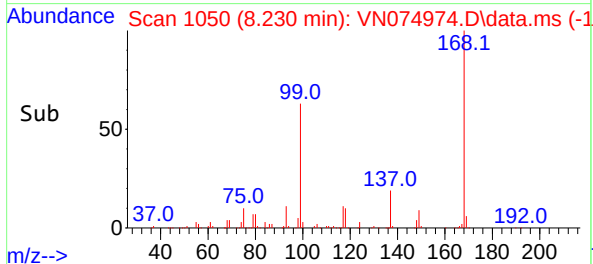
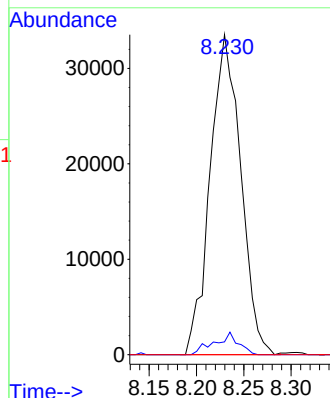
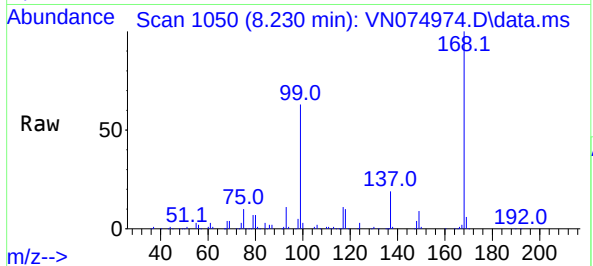




#38
Carbon Tetrachloride
Concen: 3.880 ug/l
RT: 8.230 min Scan# 1073
Delta R.T. -0.135 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

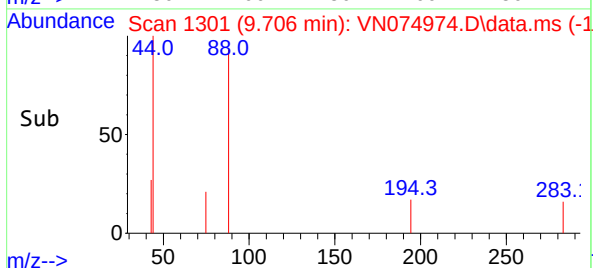
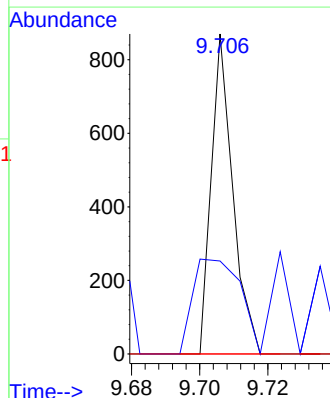
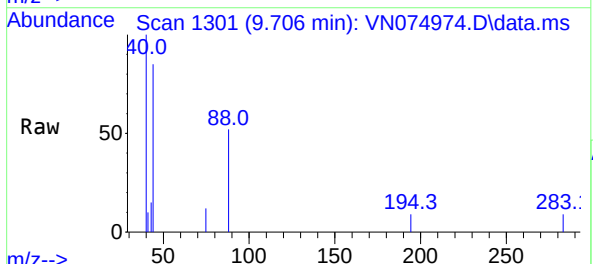
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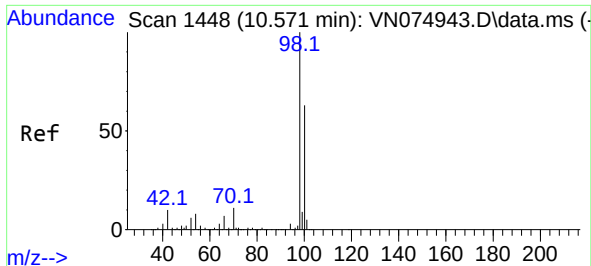
Tgt Ion:117 Resp: 75526
Ion Ratio Lower Upper
117 100
119 4.0 75.2 112.8#
121 0.0 27.0 40.6#



#49
1,4-Dioxane
Concen: 0.923 ug/l
RT: 9.706 min Scan# 1301
Delta R.T. 0.006 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion: 88 Resp: 381
Ion Ratio Lower Upper
88 100
43 65.6 21.1 31.7#
58 0.0 49.8 74.8#

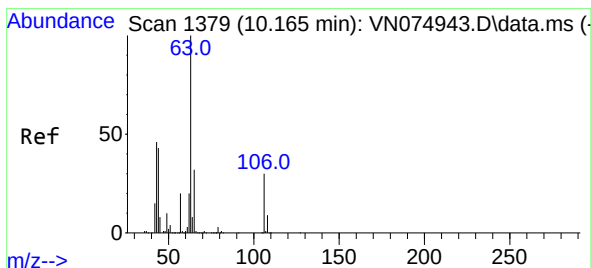
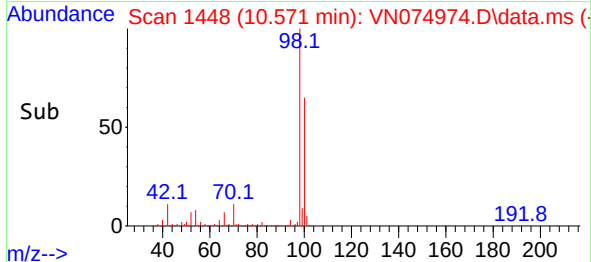
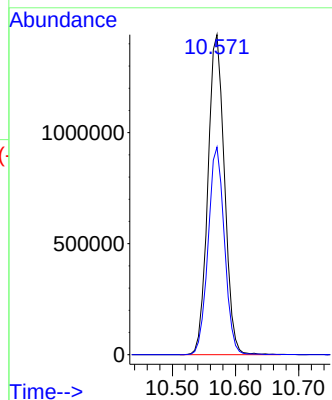
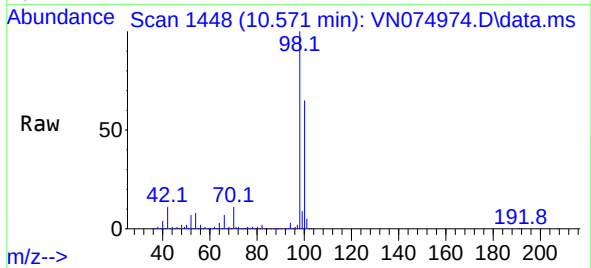




#50
Toluene-d8
Concen: 48.185 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

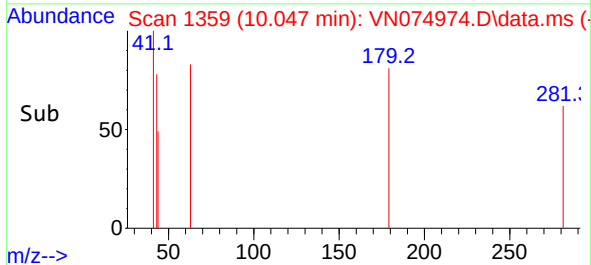
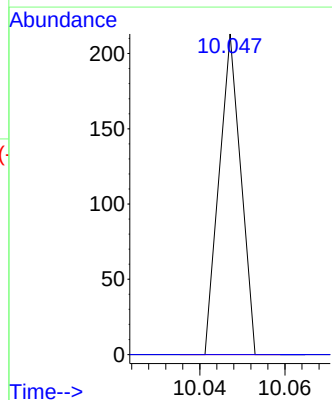
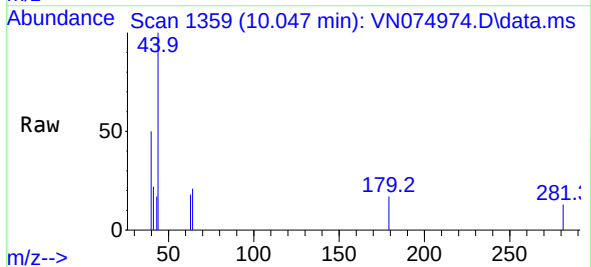
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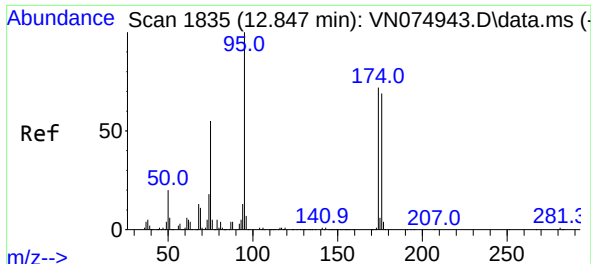
Tgt Ion: 98 Resp: 2624913
Ion Ratio Lower Upper
98 100
100 63.8 51.4 77.2



#58
2-Chloroethyl Vinyl ether
Concen: 3.616 ug/l
RT: 10.047 min Scan# 1359
Delta R.T. -0.118 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion: 63 Resp: 75
Ion Ratio Lower Upper
63 100
106 0.0 24.1 36.1#

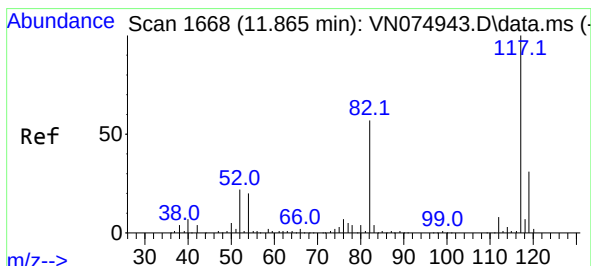
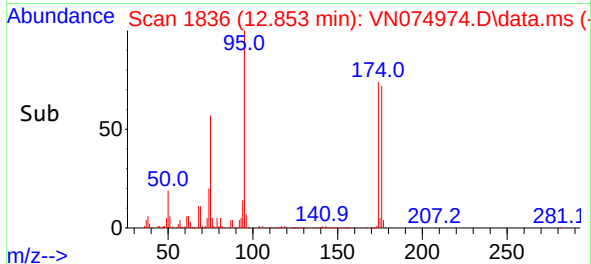
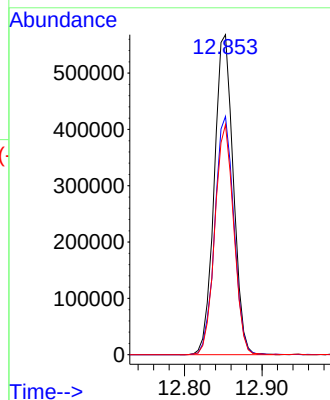
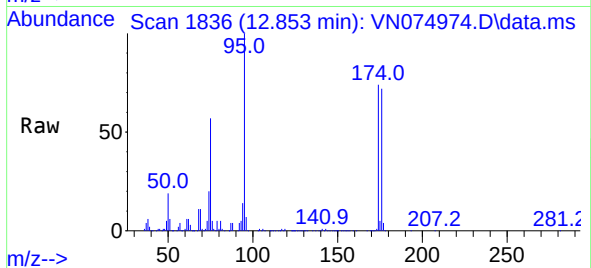




#62
4-Bromofluorobenzene
Concen: 50.345 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

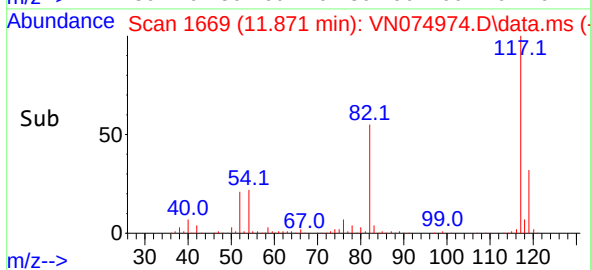
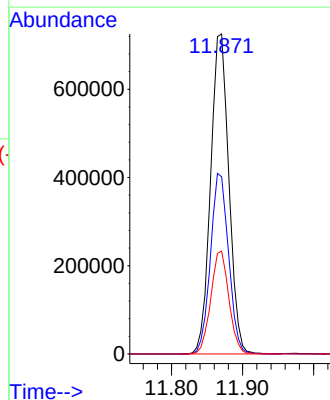
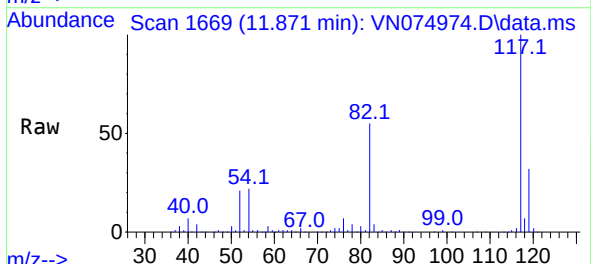
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MSVOA_N
ClientSampleId :
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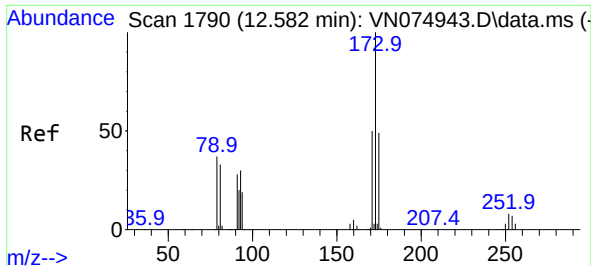
Tgt Ion: 95 Resp: 967411
Ion Ratio Lower Upper
95 100
174 74.6 0.0 143.0
176 71.2 0.0 138.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion: 117 Resp: 1295714
Ion Ratio Lower Upper
117 100
82 55.3 45.6 68.4
119 32.2 25.1 37.7

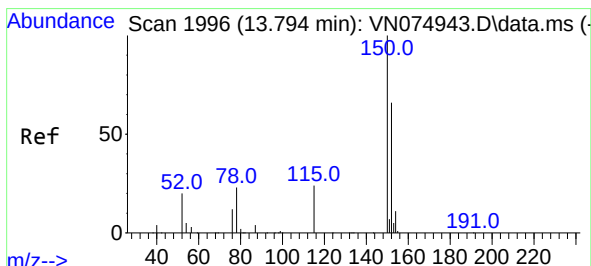
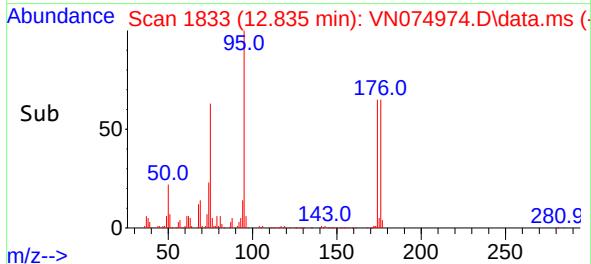
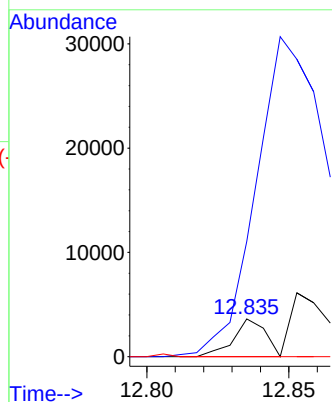
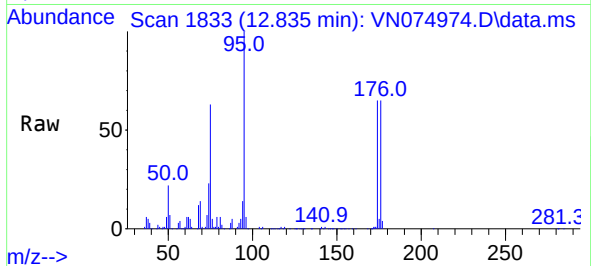




#71
Bromoform
Concen: 0.254 ug/l
RT: 12.835 min Scan# 1833
Delta R.T. 0.253 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

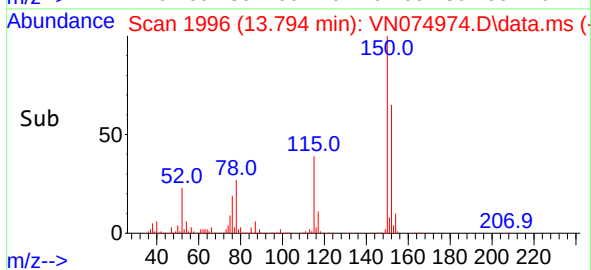
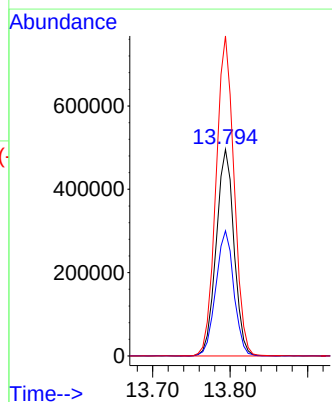
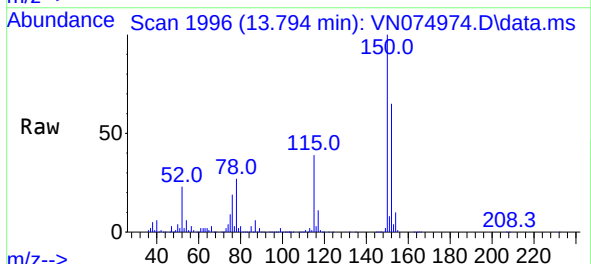
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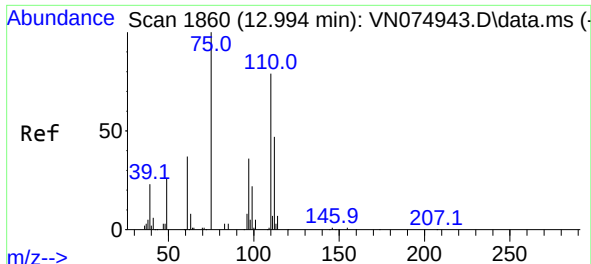
Tgt Ion:173 Resp: 2827
Ion Ratio Lower Upper
173 100
175 1528.3 24.8 74.3#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion:152 Resp: 791629
Ion Ratio Lower Upper
152 100
115 61.5 31.3 93.8
150 157.0 0.0 349.6

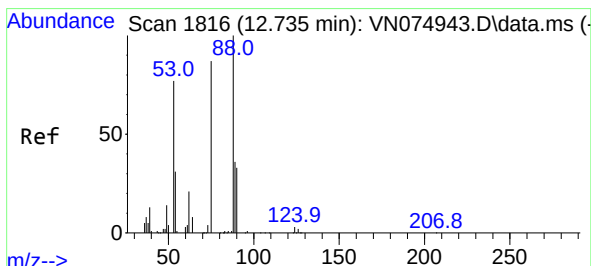
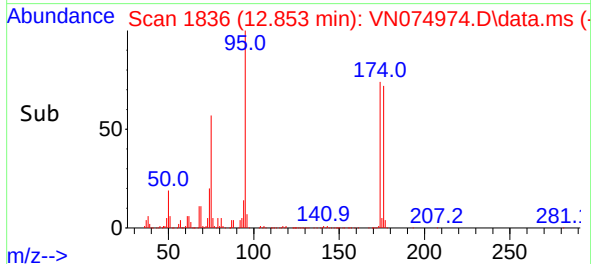
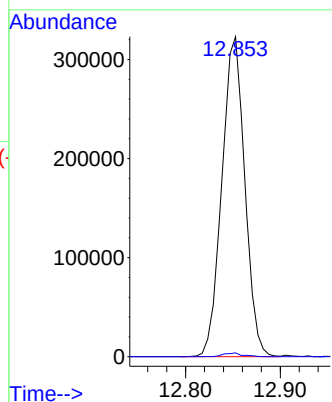
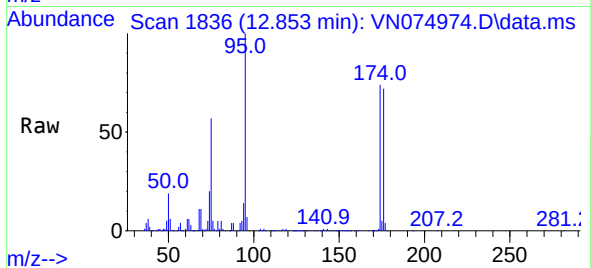




#76
1,2,3-Trichloropropane
Concen: 25.345 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

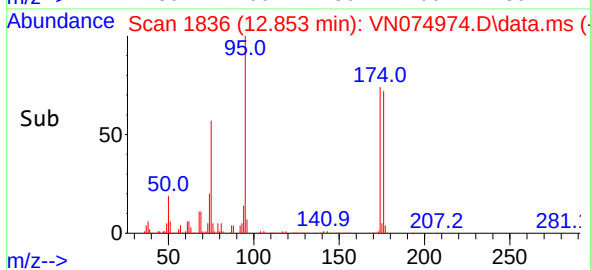
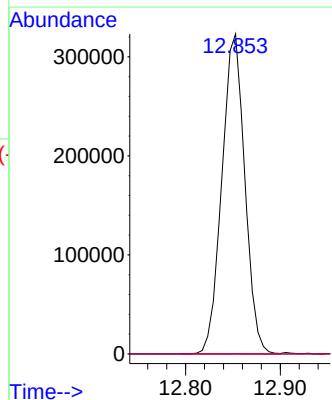
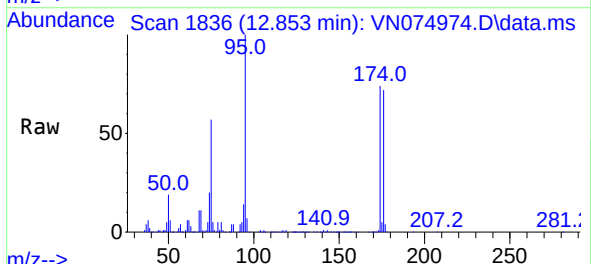
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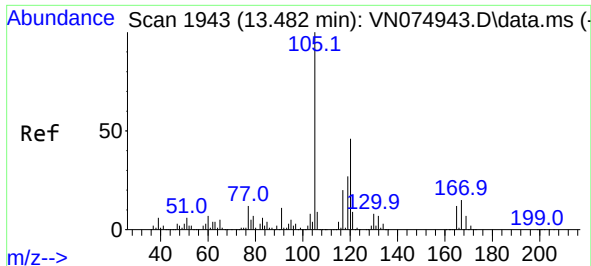
Tgt Ion: 75 Resp: 544113
Ion Ratio Lower Upper
75 100
77 1.0 81.0 243.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 81.262 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion: 75 Resp: 544113
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 37.9 56.9#

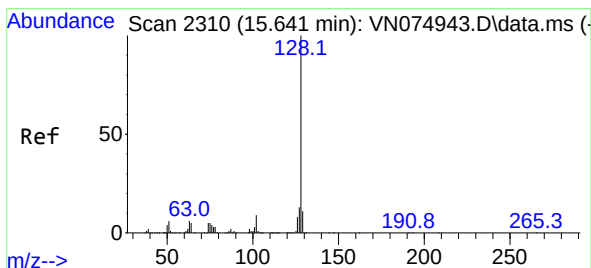
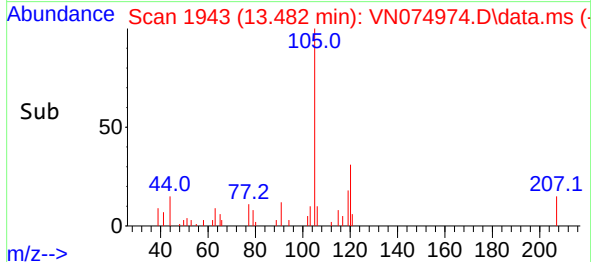
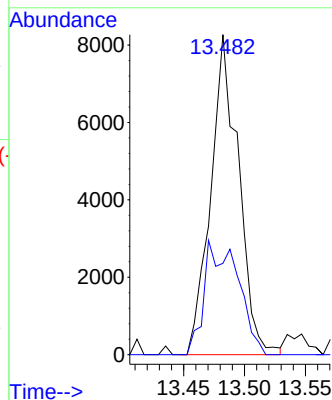
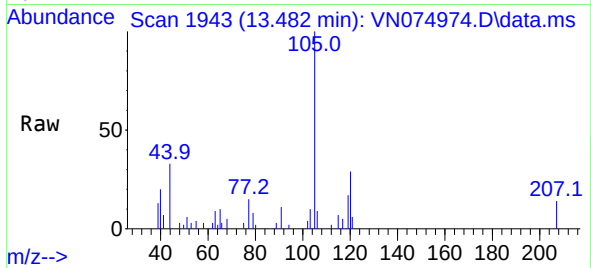




#84
1,2,4-Trimethylbenzene
Concen: 0.234 ug/l
RT: 13.482 min Scan# 1943
Delta R.T. 0.000 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Instrument :
MSVOA_N
ClientSampleId :
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Tgt Ion:105 Resp: 13177
Ion Ratio Lower Upper
105 100
120 43.2 22.9 68.5



#95
Naphthalene
Concen: 2.814 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. 0.000 min
Lab File: VN074974.D
Acq: 21 Oct 2022 20:13

Tgt Ion:128 Resp: 135337
Ion Ratio Lower Upper
128 100
127 12.4 10.4 15.6
129 10.9 8.6 12.8

