

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112421\
 Data File : VN069641.D
 Acq On : 24 Nov 2021 14:41
 Operator : JC/MD
 Sample : M4815-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 26 06:59:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110921W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 09 18:18:22 2021
 Response via : Initial Calibration

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

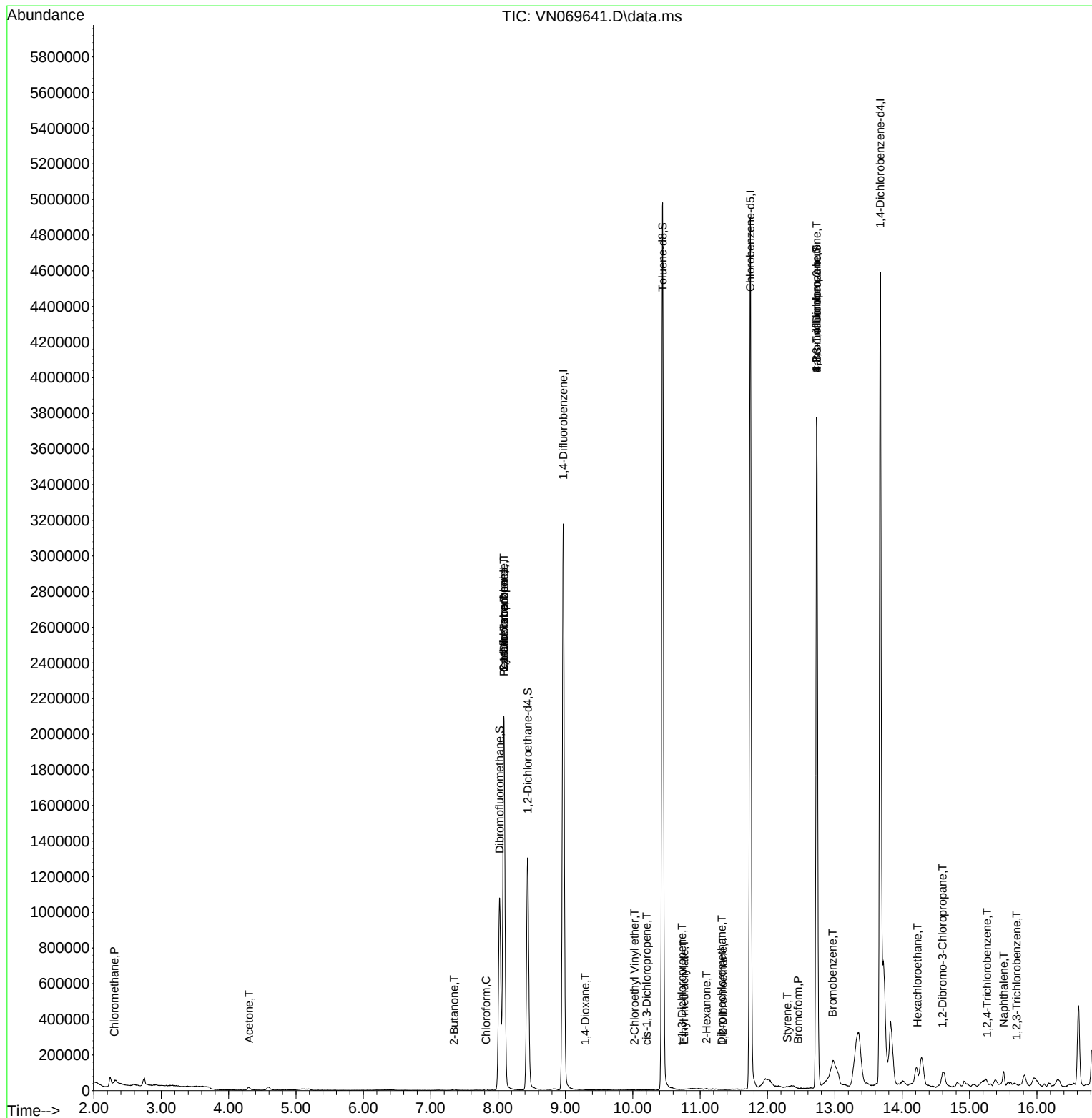
Internal Standards						
1) Pentafluorobenzene	8.088	168	1551666	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2695692	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	2727204	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1218101	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1138560	50.606	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 101.220%	
35) Dibromofluoromethane	8.024	113	785943	48.612	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 97.220%	
50) Toluene-d8	10.443	98	3405483	53.556	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 107.120%	
62) 4-Bromofluorobenzene	12.731	95	1297994	55.566	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 111.140%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.303	50	4199	0.218	ug/l	94
13) Acrolein	4.057	56	908	Below Cal	#	47
16) Acetone	4.301	43	26267	2.164	ug/l	97
25) 2-Butanone	7.348	43	8229	0.501	ug/l	96
30) Chloroform	7.820	83	7207	0.230	ug/l	86
31) Cyclohexane	8.086	56	39891	1.298	ug/l #	30
36) 1,1-Dichloropropene	8.086	75	132998	5.863	ug/l #	49
38) Carbon Tetrachloride	8.086	117	159643	7.290	ug/l #	16
49) 1,4-Dioxane	9.293	88	178	39.431	ug/l #	1
53) t-1,3-Dichloropropene	10.730	75	90	2.640	ug/l #	67
54) cis-1,3-Dichloropropene	10.204	75	102	1.736	ug/l #	57
56) Ethyl methacrylate	10.760	69	144	2.057	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.025	63	25	22.773	ug/l #	45
59) 2-Hexanone	11.095	43	3921	8.083	ug/l	82
60) Dibromochloromethane	11.323	129	73	2.421	ug/l	57
61) 1,2-Dibromoethane	11.339	107	30	1.073	ug/l #	2
70) Styrene	12.294	104	596	1.530	ug/l #	74
71) Bromoform	12.452	173	128	3.436	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	728247	25.906	ug/l #	1
77) Bromobenzene	12.967	156	56253	2.536	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	728247	73.976	ug/l #	5
90) Hexachloroethane	14.227	117	743	2.213	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.600	75	1446	2.026	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.263	180	1646	3.194	ug/l #	61
95) Naphthalene	15.507	128	68780	5.610	ug/l	99
96) 1,2,3-Trichlorobenzene	15.700	180	2114	3.277	ug/l #	64

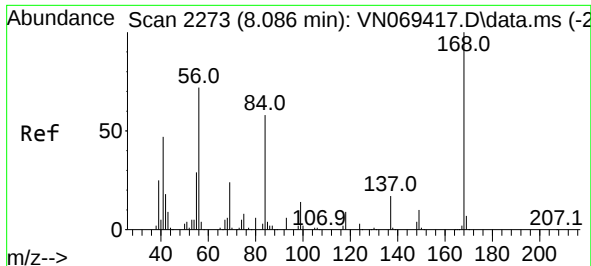
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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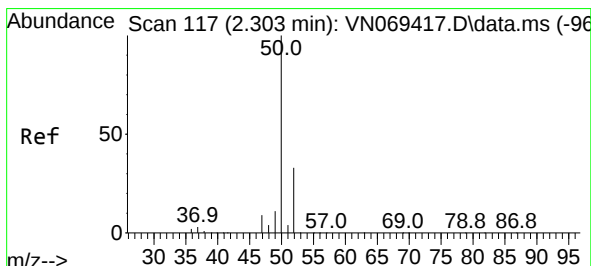
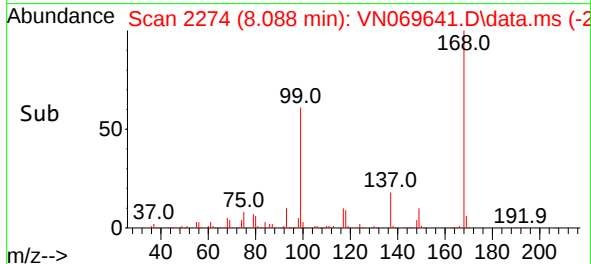
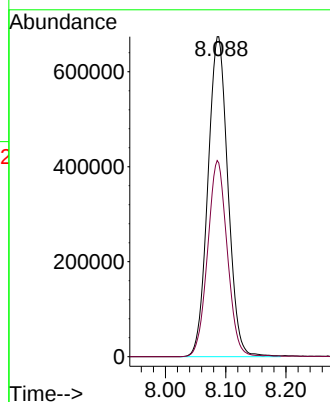
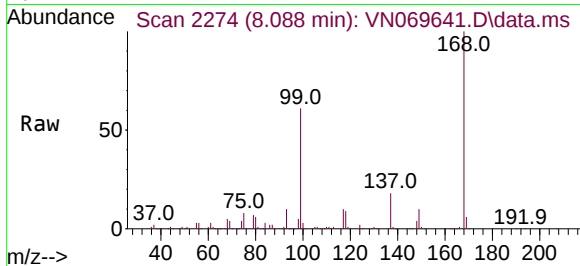




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

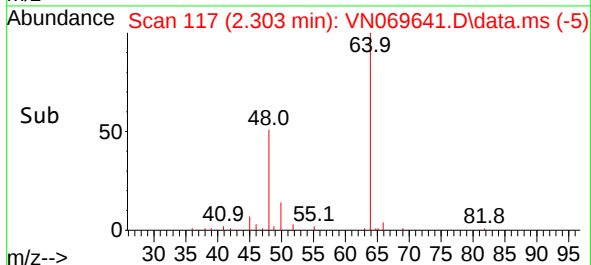
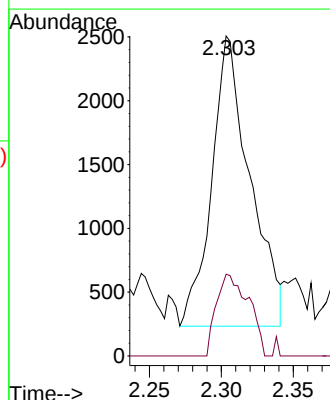
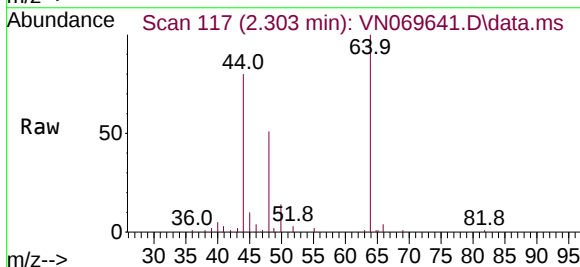
Instrument :
MSVOA_N
ClientSampleId :

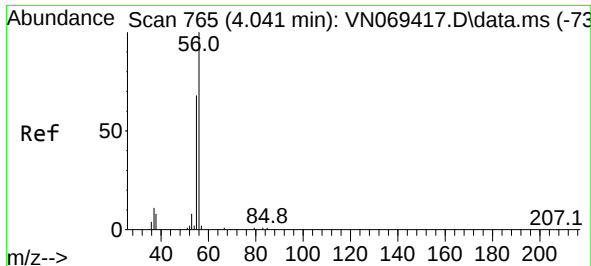
Tgt Ion:168 Resp: 1551666
Ion Ratio Lower Upper
168 100
99 60.5 41.3 61.9



#3
Chloromethane
Concen: 0.218 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

Tgt Ion: 50 Resp: 4199
Ion Ratio Lower Upper
50 100
52 28.2 25.4 38.0

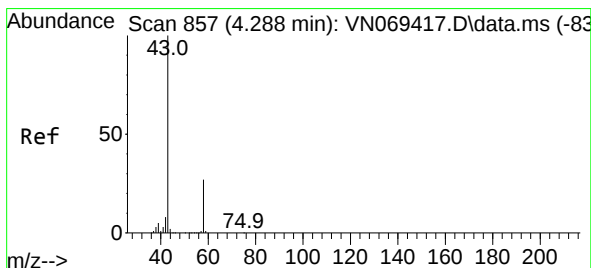
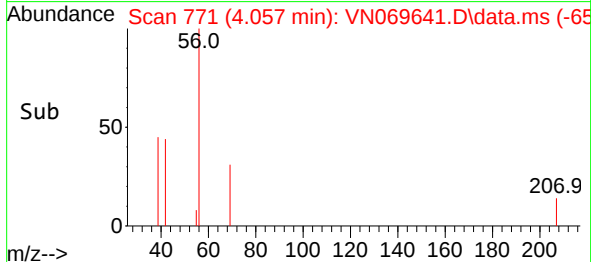
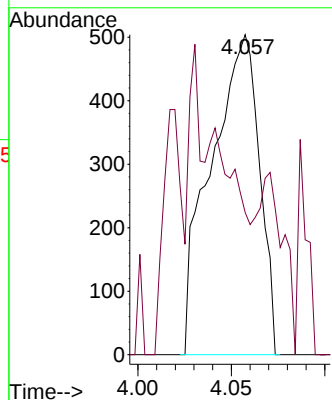
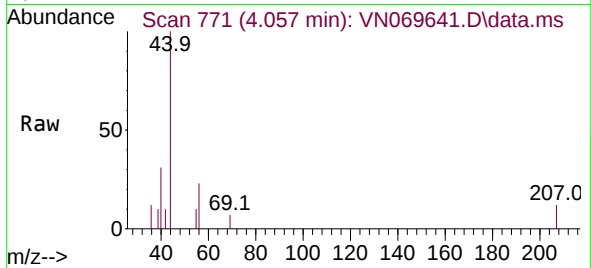




#13
Acrolein
Concen: Below Cal
RT: 4.057 min Scan# 71
Delta R.T. 0.016 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

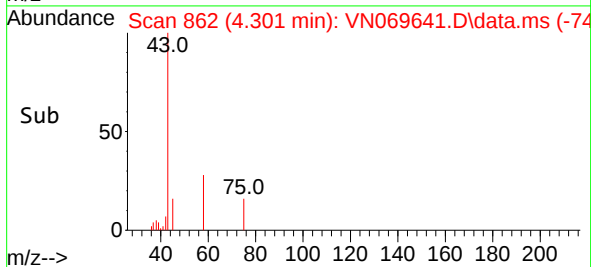
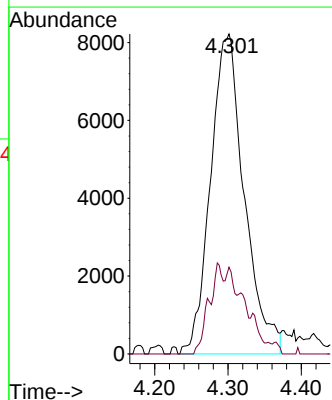
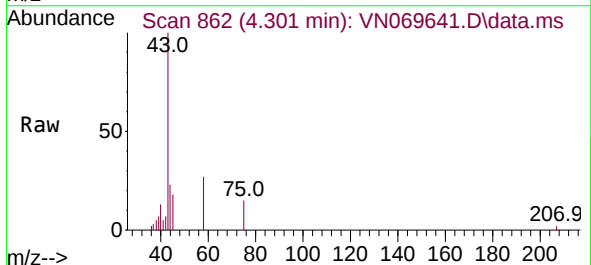
Instrument :
MSVOA_N
ClientSampleId :

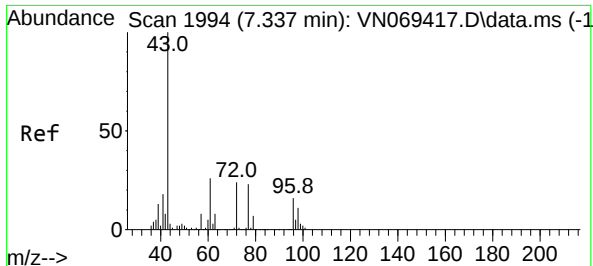
Tgt Ion: 56 Resp: 908
Ion Ratio Lower Upper
56 100
55 27.4 56.6 85.0#



#16
Acetone
Concen: 2.164 ug/l
RT: 4.301 min Scan# 862
Delta R.T. 0.013 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

Tgt Ion: 43 Resp: 26267
Ion Ratio Lower Upper
43 100
58 27.1 23.1 34.7





#25

2-Butanone

Concen: 0.501 ug/l

RT: 7.348 min Scan# 1994

Delta R.T. 0.011 min

Lab File: VN069641.D

Acq: 24 Nov 2021 14:41

Instrument :

MSVOA_N

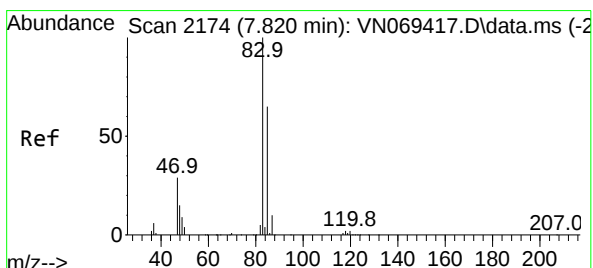
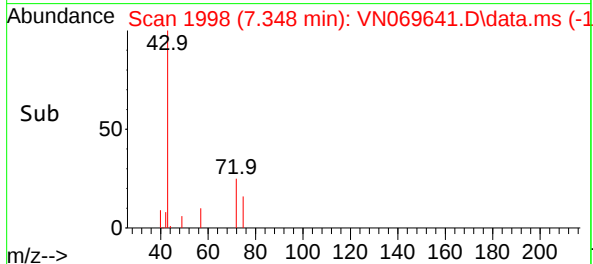
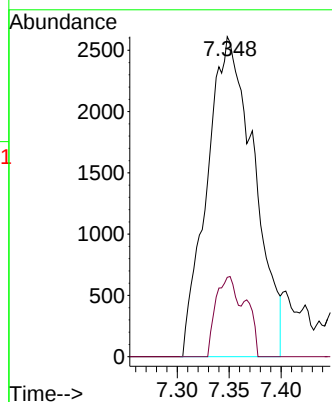
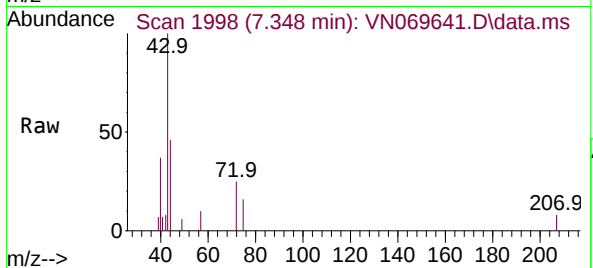
ClientSampleId :

Tgt Ion: 43 Resp: 8229

Ion Ratio Lower Upper

43 100

72 24.8 21.7 32.5



#30

Chloroform

Concen: 0.230 ug/l

RT: 7.820 min Scan# 2174

Delta R.T. 0.000 min

Lab File: VN069641.D

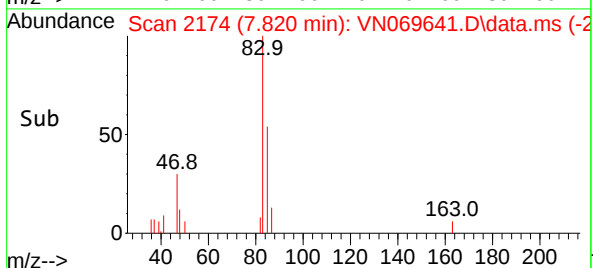
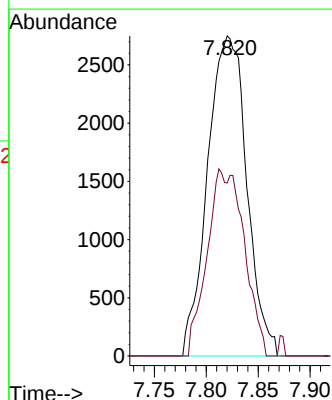
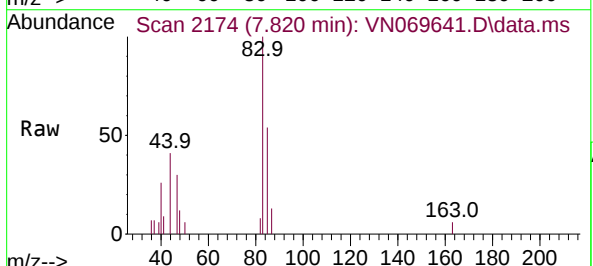
Acq: 24 Nov 2021 14:41

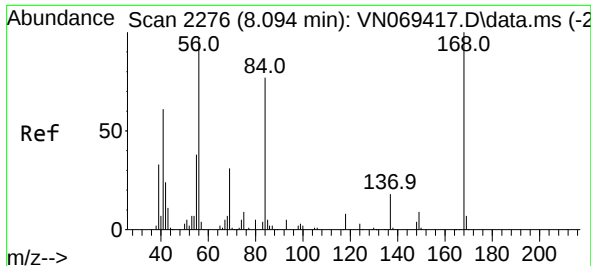
Tgt Ion: 83 Resp: 7207

Ion Ratio Lower Upper

83 100

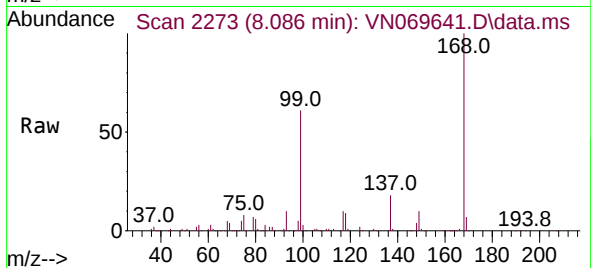
85 54.1 51.9 77.9



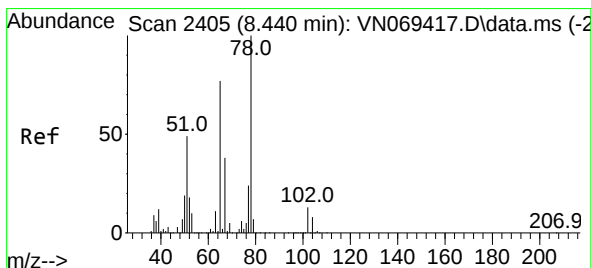
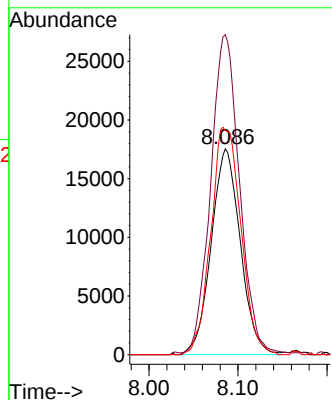
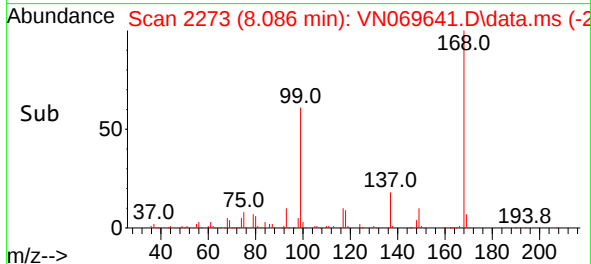


#31
Cyclohexane
Concen: 1.298 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

Instrument :
MSVOA_N
ClientSampleId :

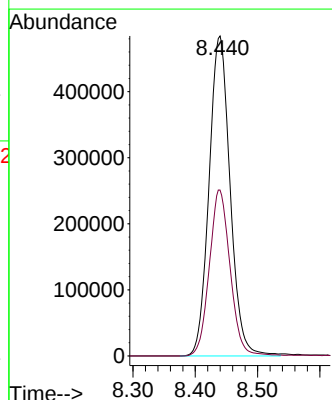
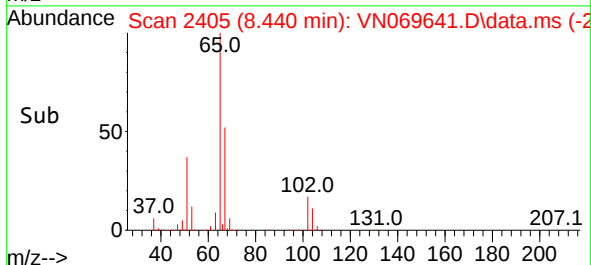
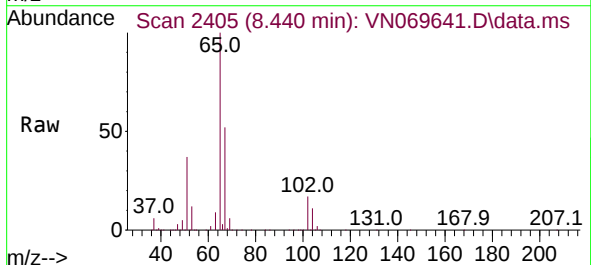


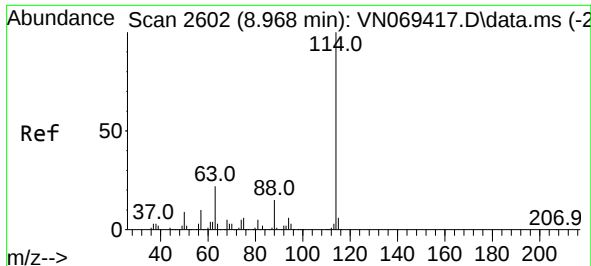
Tgt Ion: 56 Resp: 39891
Ion Ratio Lower Upper
56 100
69 154.5 27.1 40.7#
84 108.8 73.4 110.0



#33
1,2-Dichloroethane-d4
Concen: 50.606 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

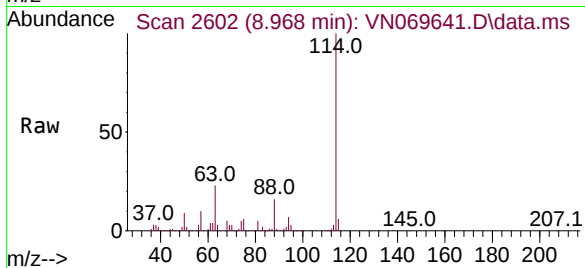
Tgt Ion: 65 Resp: 1138560
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.0



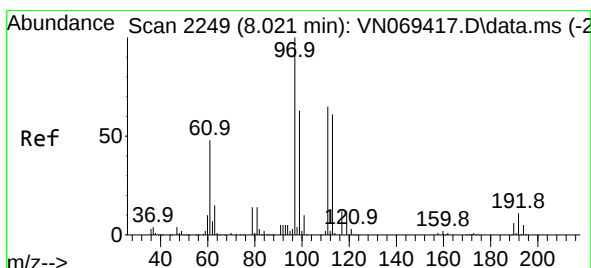
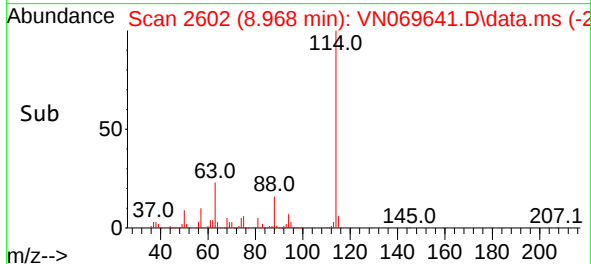
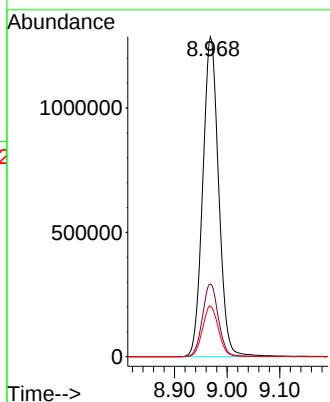


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2069
Delta R.T. 0.000 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

Instrument :
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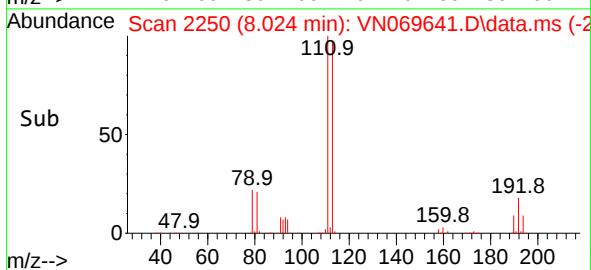
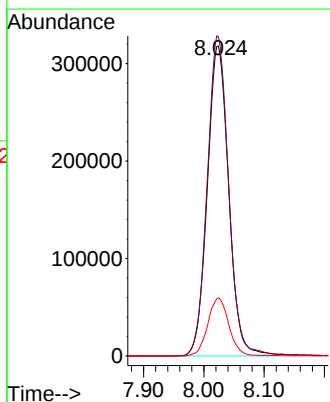
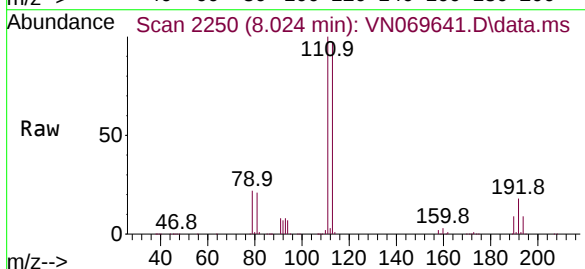


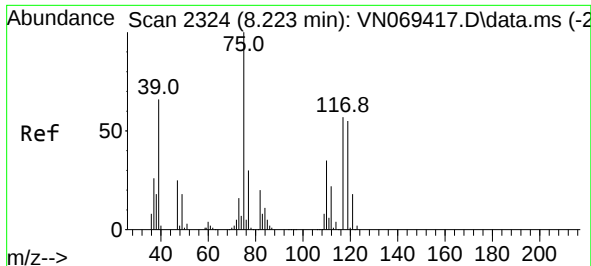
Tgt Ion:114 Resp: 2695692
Ion Ratio Lower Upper
114 100
63 22.7 0.0 37.8
88 15.8 0.0 27.4



#35
Dibromofluoromethane
Concen: 48.612 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

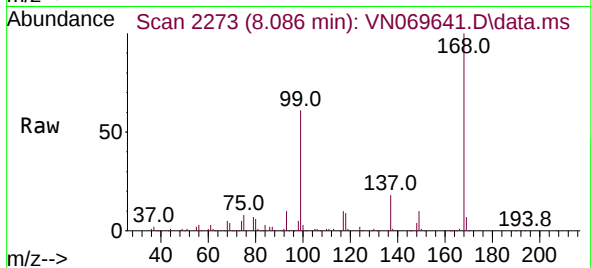
Tgt Ion:113 Resp: 785943
Ion Ratio Lower Upper
113 100
111 103.0 82.2 123.2
192 18.4 16.9 25.3



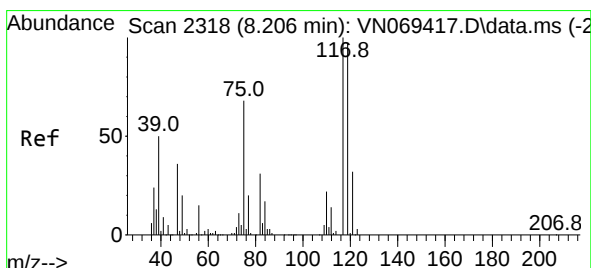
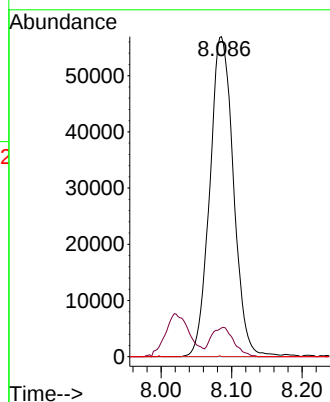
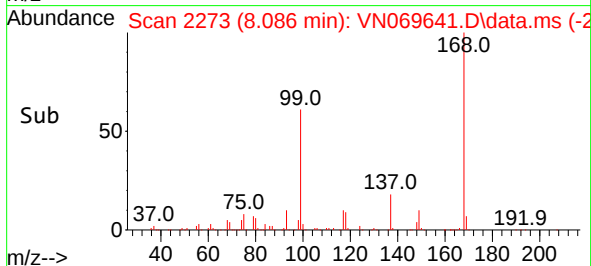


#36
 1,1-Dichloropropene
 Concen: 5.863 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.137 min
 Lab File: VN069641.D
 Acq: 24 Nov 2021 14:41

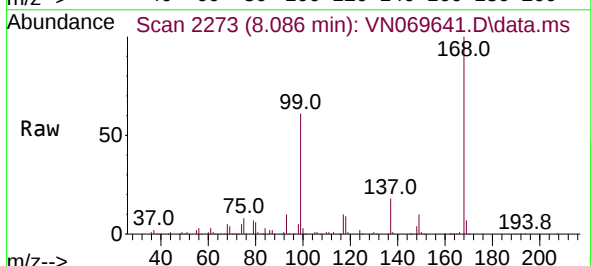
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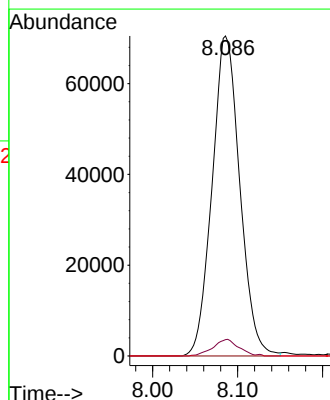
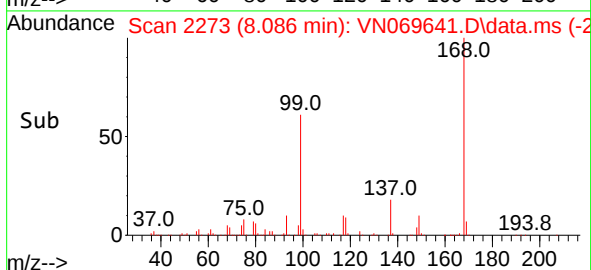
Tgt Ion: 75 Resp: 132998
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.4 55.2#
 77 0.0 24.4 36.6#

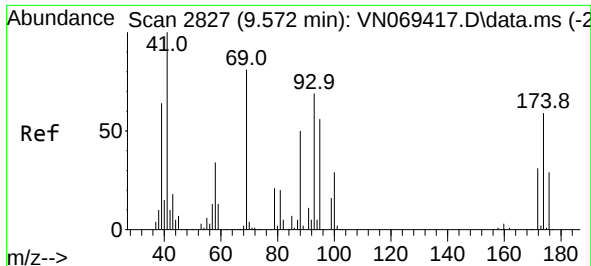


#38
 Carbon Tetrachloride
 Concen: 7.290 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.120 min
 Lab File: VN069641.D
 Acq: 24 Nov 2021 14:41



Tgt Ion: 117 Resp: 159643
 Ion Ratio Lower Upper
 117 100
 119 5.1 76.1 114.1#
 121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 39.431 ug/l

RT: 9.293 min Scan# 21

Delta R.T. -0.279 min

Lab File: VN069641.D

Acq: 24 Nov 2021 14:41

Instrument :

MSVOA_N

ClientSampleId :

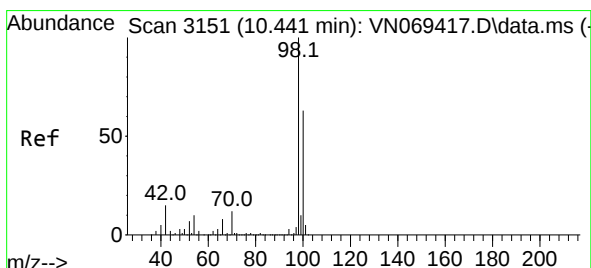
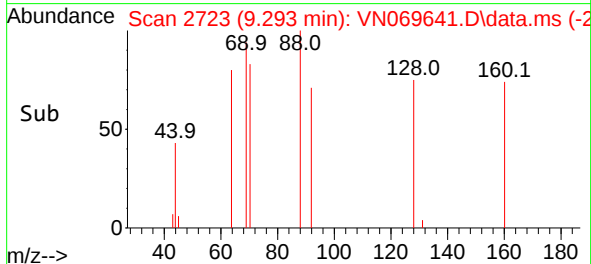
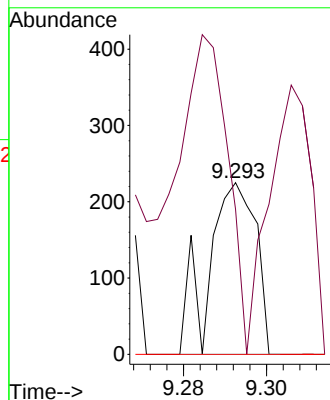
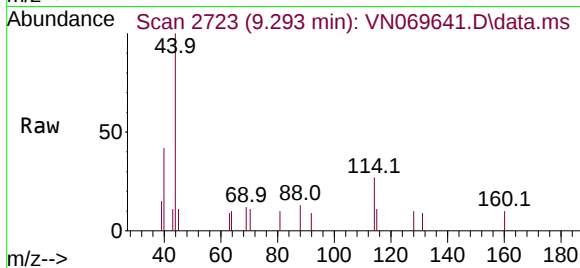
Tgt Ion: 88 Resp: 178

Ion Ratio Lower Upper

88 100

43 171.9 23.4 35.2#

58 0.0 50.6 75.8#



#50

Toluene-d8

Concen: 53.556 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.002 min

Lab File: VN069641.D

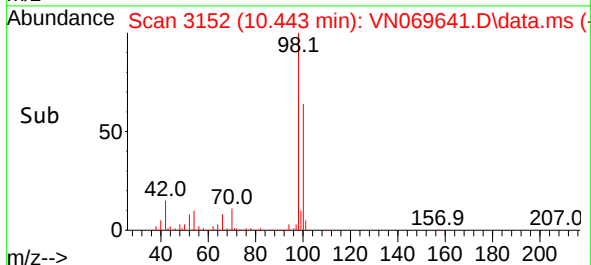
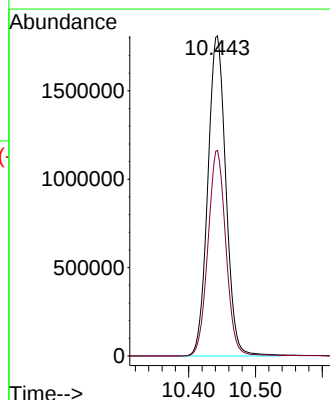
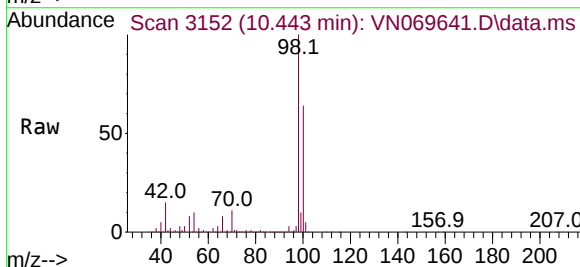
Acq: 24 Nov 2021 14:41

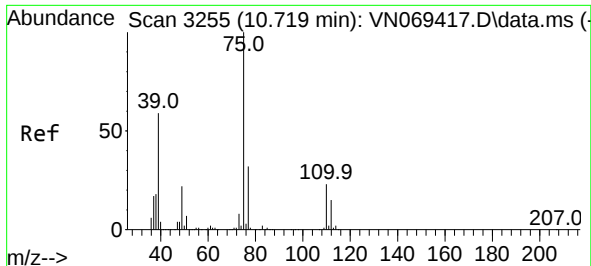
Tgt Ion: 98 Resp: 3405483

Ion Ratio Lower Upper

98 100

100 63.8 50.4 75.6

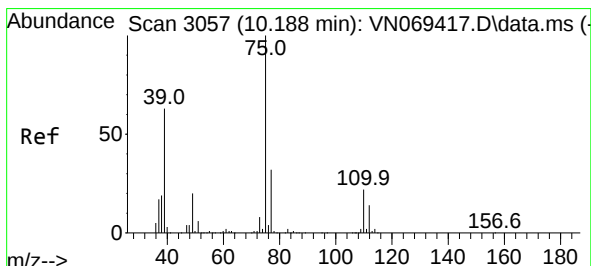
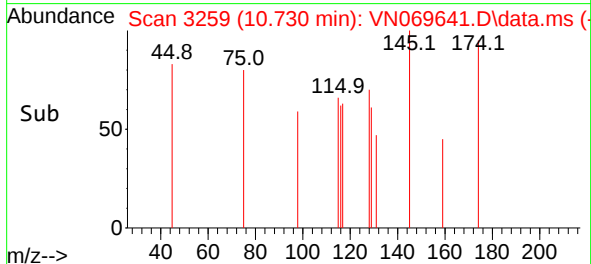
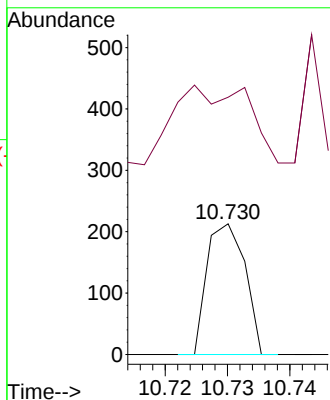
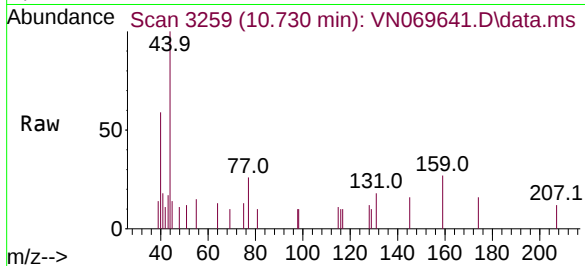




#53
t-1,3-Dichloropropene
Concen: 2.640 ug/l
RT: 10.730 min Scan# 31
Delta R.T. 0.011 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

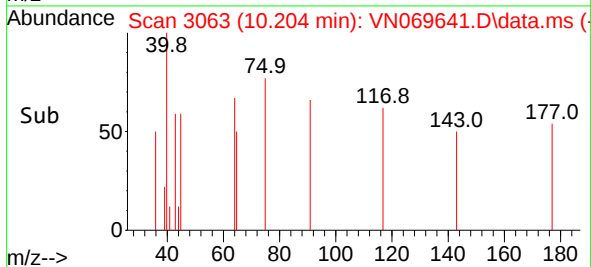
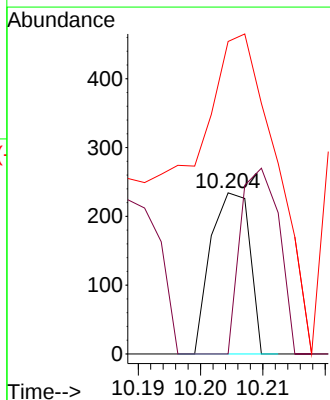
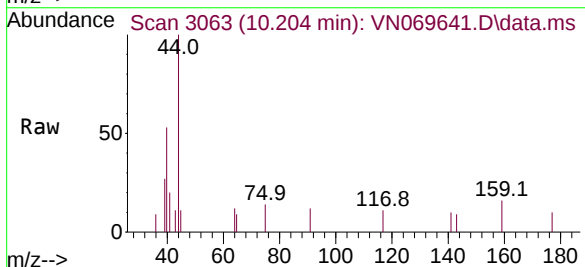
Instrument :
MSVOA_N
ClientSampleId :

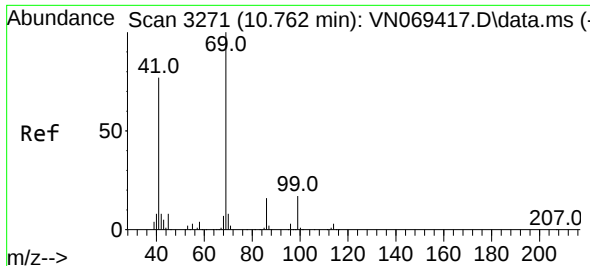
Tgt Ion: 75 Resp: 90
Ion Ratio Lower Upper
75 100
77 50.2 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 1.736 ug/l
RT: 10.204 min Scan# 3063
Delta R.T. 0.016 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

Tgt Ion: 75 Resp: 102
Ion Ratio Lower Upper
75 100
77 0.0 26.4 39.6#
39 76.9 42.5 63.7#

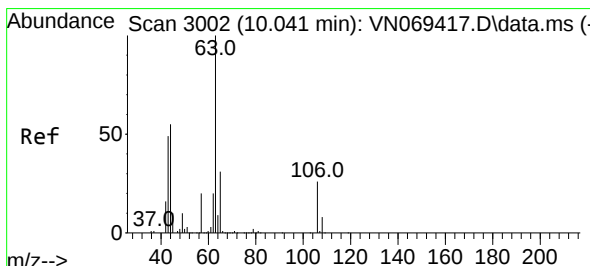
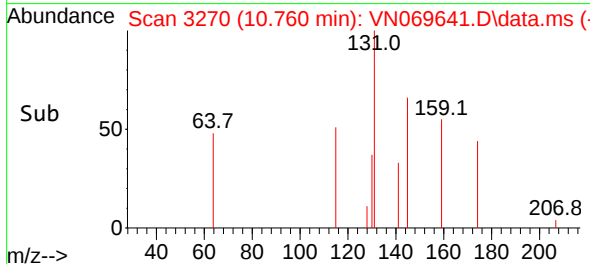
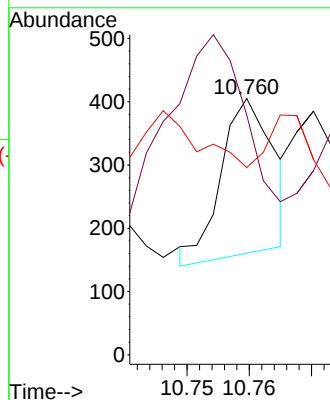
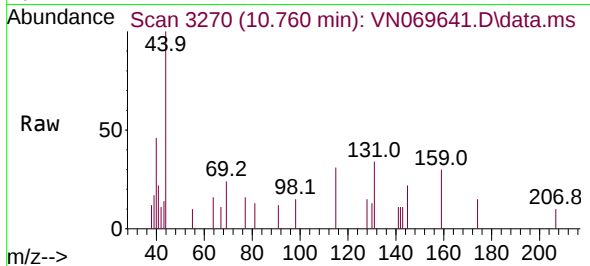




#56
Ethyl methacrylate
Concen: 2.057 ug/l
RT: 10.760 min Scan# 31
Delta R.T. -0.002 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

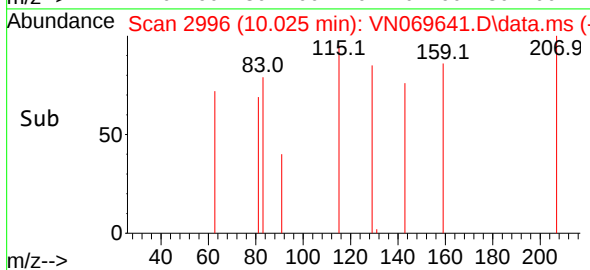
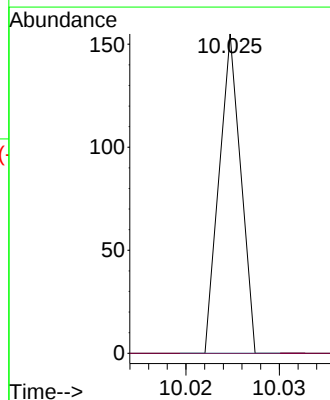
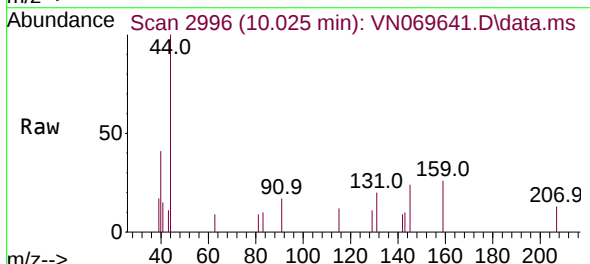
Instrument :
MSVOA_N
ClientSampleId :

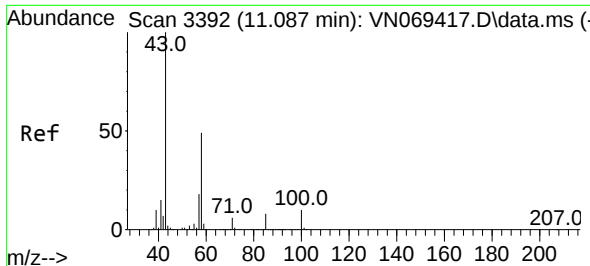
Tgt Ion: 69 Resp: 144
Ion Ratio Lower Upper
69 100
41 229.2 51.4 77.0#
39 36.1 34.6 52.0



#58
2-Chloroethyl Vinyl ether
Concen: 22.773 ug/l
RT: 10.025 min Scan# 2996
Delta R.T. -0.016 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

Tgt Ion: 63 Resp: 25
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

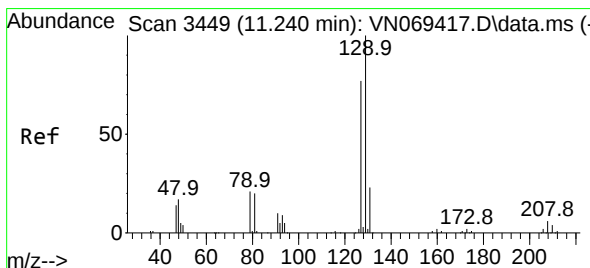
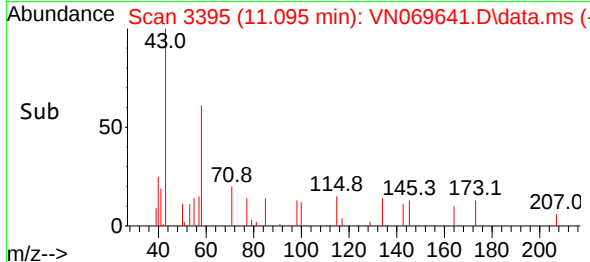
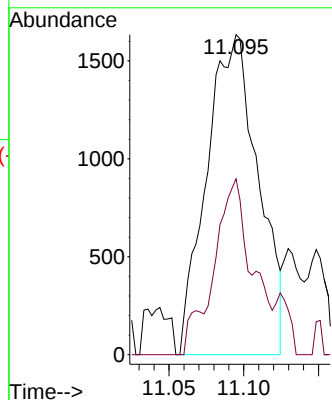
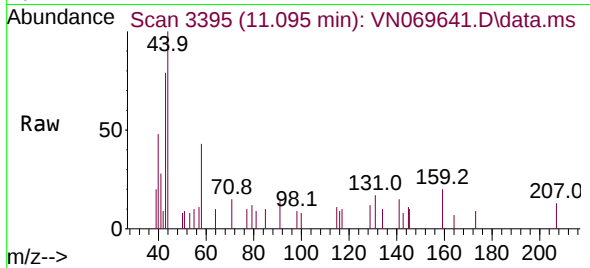




#59
2-Hexanone
Concen: 8.083 ug/l
RT: 11.095 min Scan# 31
Delta R.T. 0.008 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

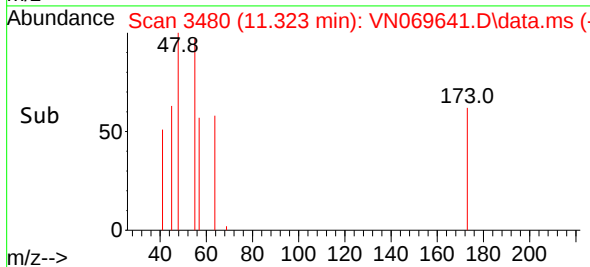
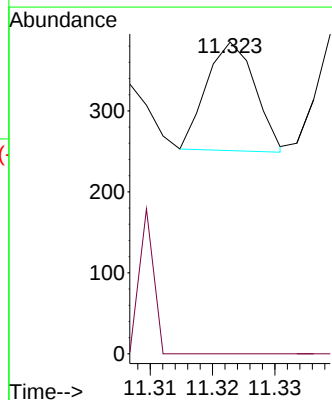
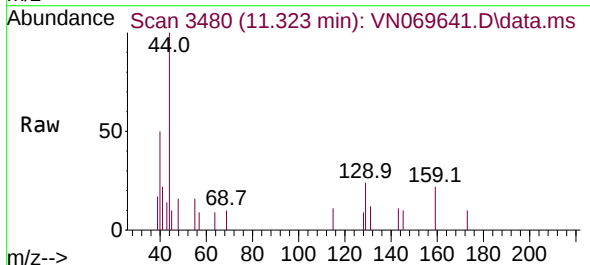
Instrument :
MSVOA_N
ClientSampleId :

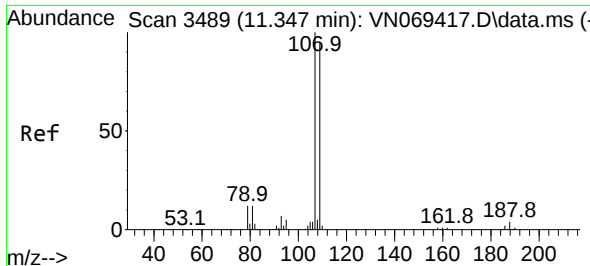
Tgt Ion: 43 Resp: 3921
Ion Ratio Lower Upper
43 100
58 41.0 26.9 80.7



#60
Dibromochloromethane
Concen: 2.421 ug/l
RT: 11.323 min Scan# 3480
Delta R.T. 0.083 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

Tgt Ion: 129 Resp: 73
Ion Ratio Lower Upper
129 100
127 39.7 38.6 116.0

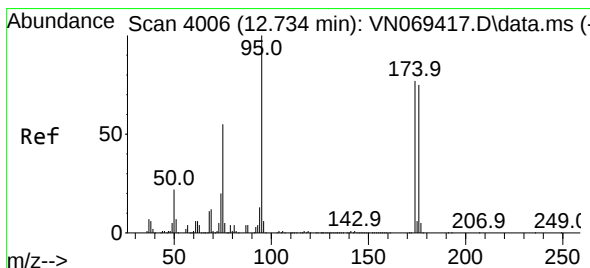
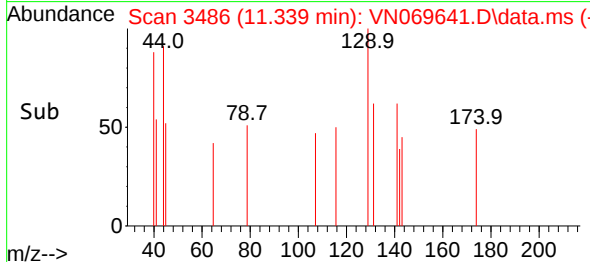
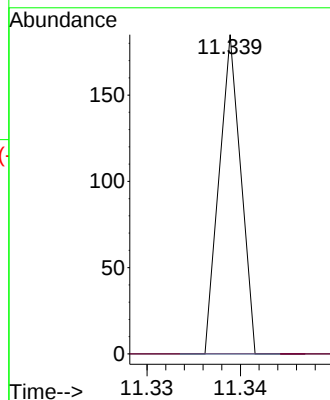
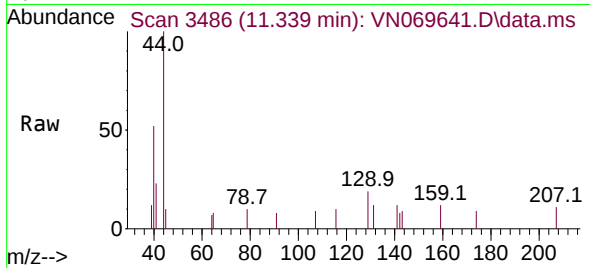




#61
1,2-Dibromoethane
Concen: 1.073 ug/l
RT: 11.339 min Scan# 3489
Delta R.T. -0.008 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

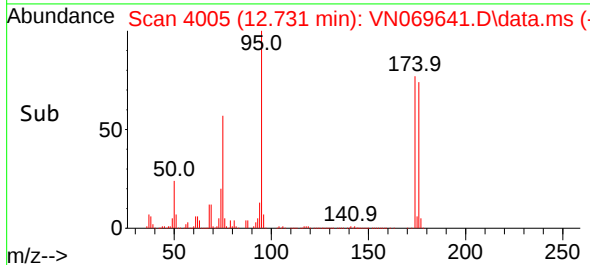
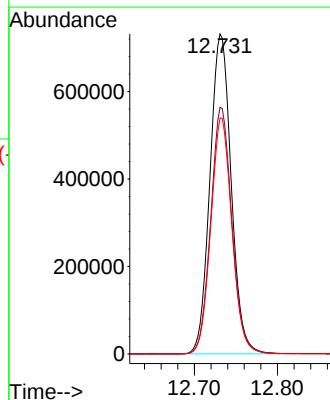
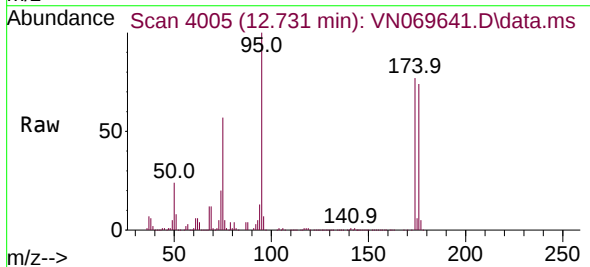
Instrument :
MSVOA_N
ClientSampleId :

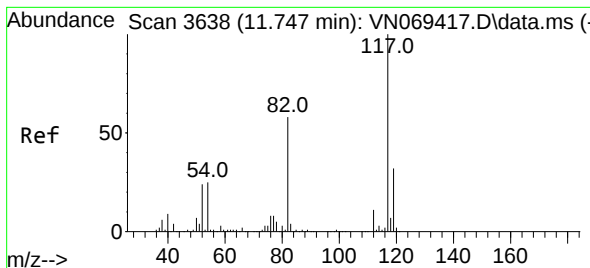
Tgt Ion:107 Resp: 30
Ion Ratio Lower Upper
107 100
109 0.0 75.7 113.5#



#62
4-Bromofluorobenzene
Concen: 55.566 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.003 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

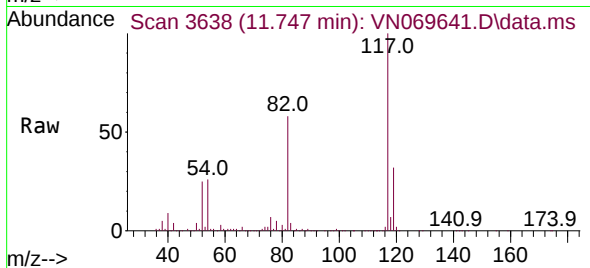
Tgt Ion: 95 Resp: 1297994
Ion Ratio Lower Upper
95 100
174 76.9 0.0 187.2
176 73.4 0.0 181.4





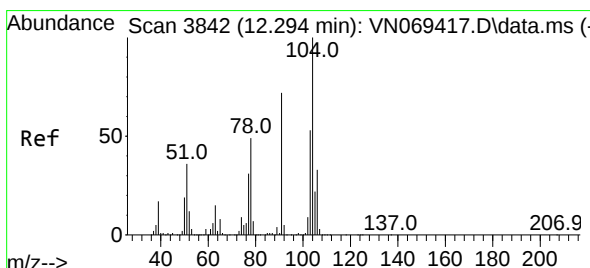
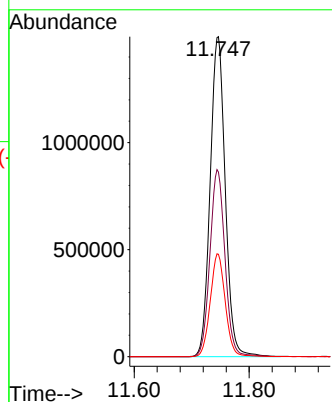
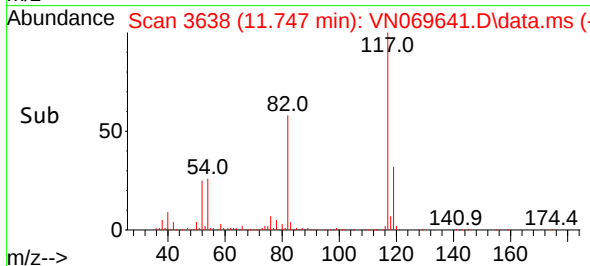
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

Instrument :
MSVOA_N
ClientSampleId :

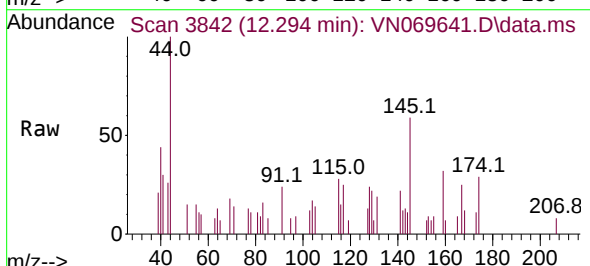


Tgt Ion:117 Resp: 2727204

Ion	Ratio	Lower	Upper
117	100		
82	57.7	42.4	63.6
119	32.0	25.4	38.2

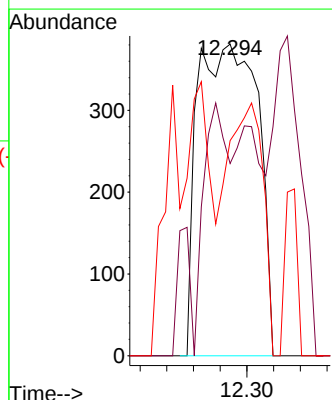
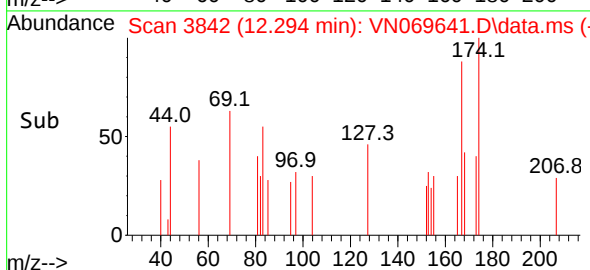


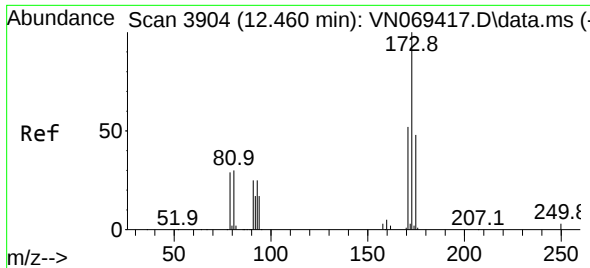
#70
Styrene
Concen: 1.530 ug/l
RT: 12.294 min Scan# 3842
Delta R.T. -0.000 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41



Tgt Ion:104 Resp: 596

Ion	Ratio	Lower	Upper
104	100		
78	34.2	38.7	58.1#
103	33.9	45.0	67.6#

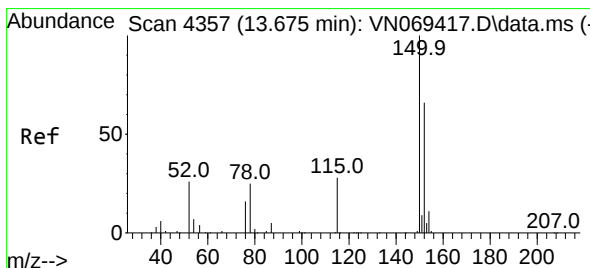
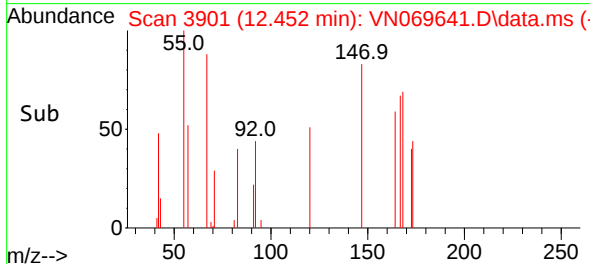
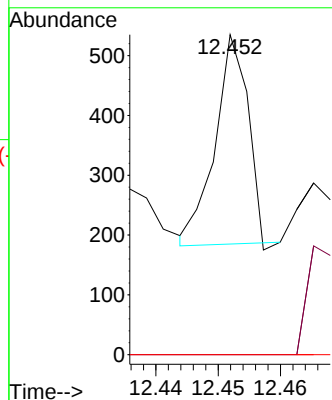
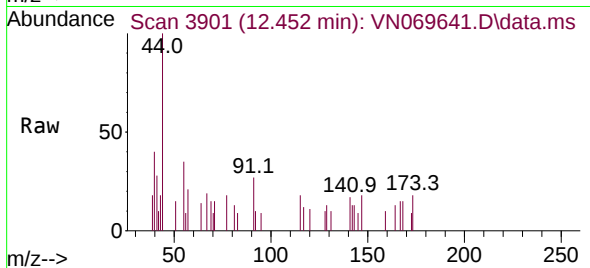




#71
Bromoform
Concen: 3.436 ug/l
RT: 12.452 min Scan# 3901
Delta R.T. -0.008 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

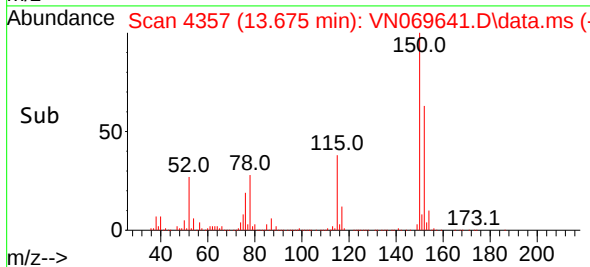
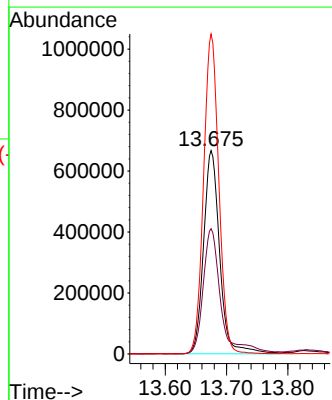
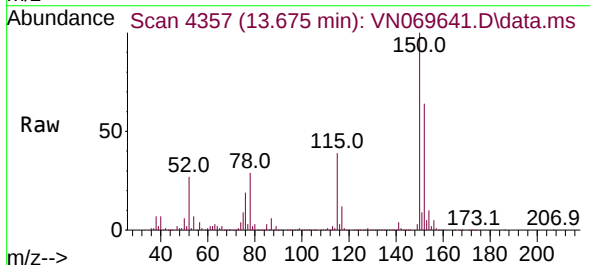
Instrument :
MSVOA_N
ClientSampleId :

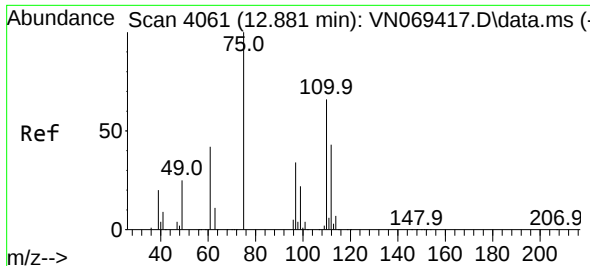
Tgt Ion:173 Resp: 128
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.000 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

Tgt Ion:152 Resp: 1218101
Ion Ratio Lower Upper
152 100
115 67.3 27.5 82.5
150 148.4 0.0 344.4

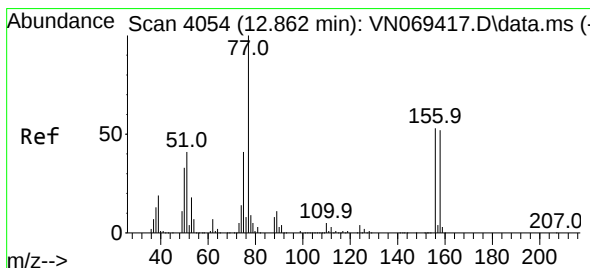
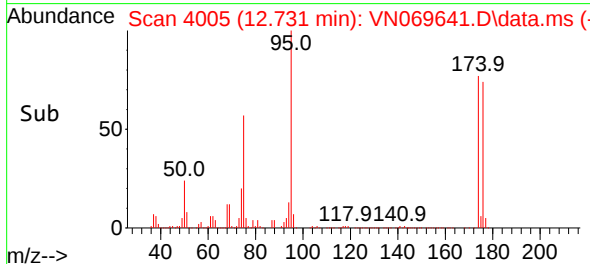
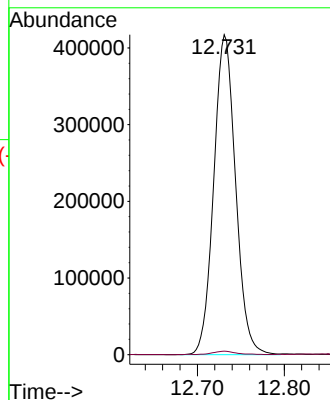
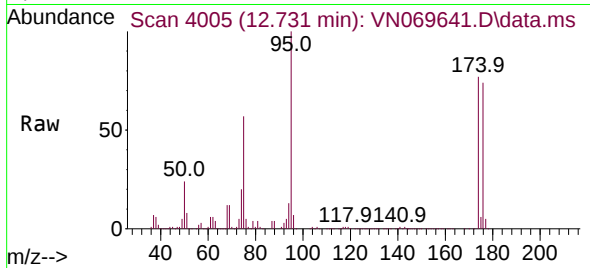




#76
1,2,3-Trichloropropane
Concen: 25.906 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

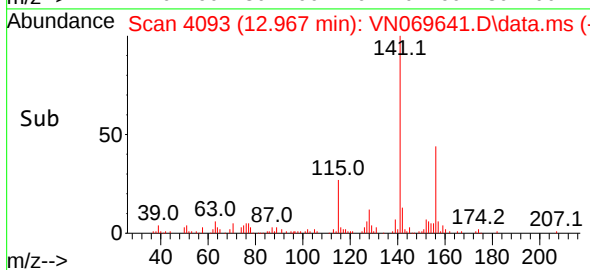
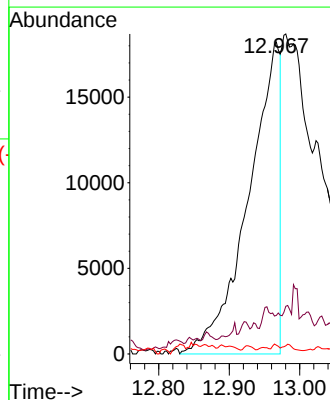
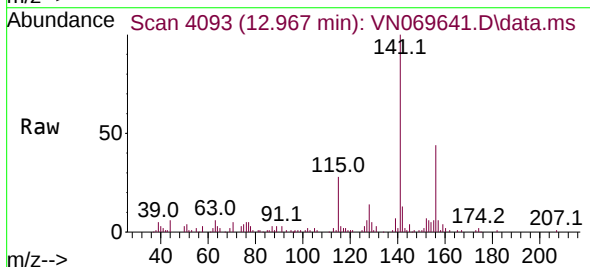
Instrument :
MSVOA_N
ClientSampleId :

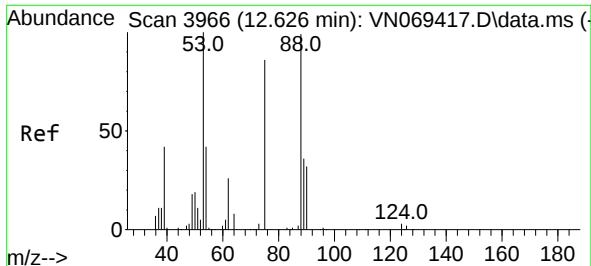
Tgt Ion: 75 Resp: 728247
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#77
Bromobenzene
Concen: 2.536 ug/l
RT: 12.967 min Scan# 4093
Delta R.T. 0.105 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

Tgt Ion: 156 Resp: 56253
Ion Ratio Lower Upper
156 100
77 0.0 90.6 271.8#
158 0.3 48.9 146.7#

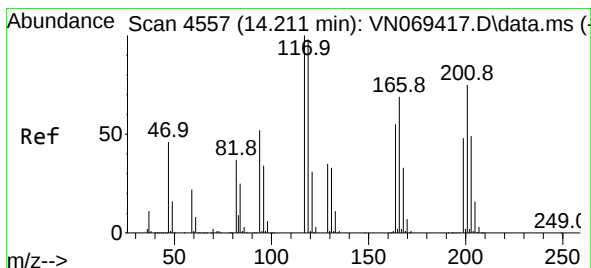
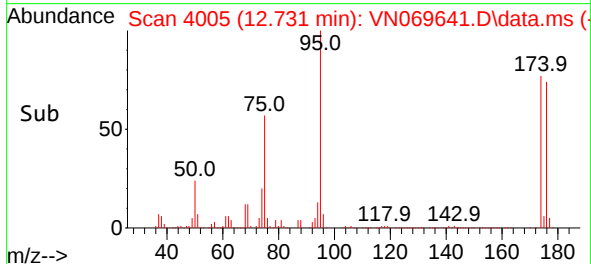
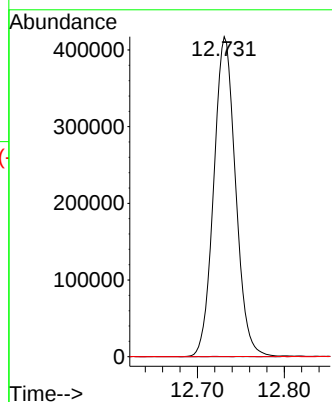
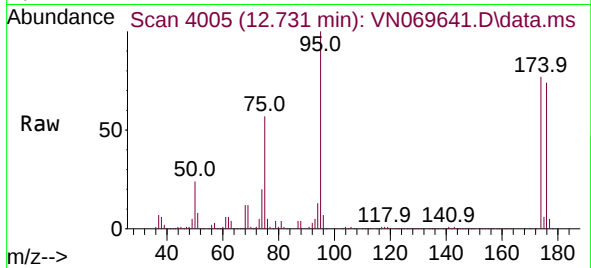




#81
trans-1,4-Dichloro-2-butene
Concen: 73.976 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

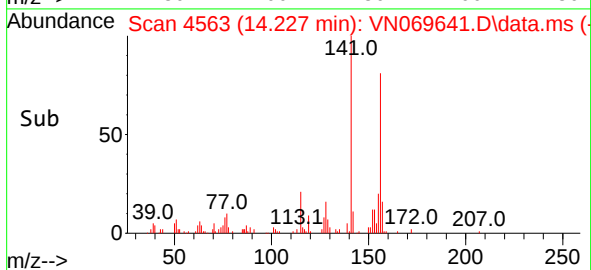
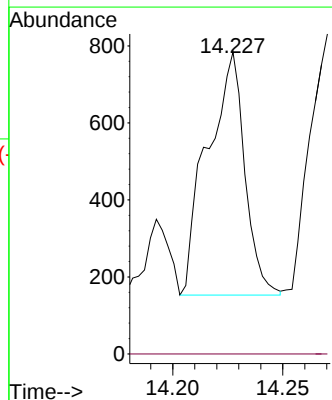
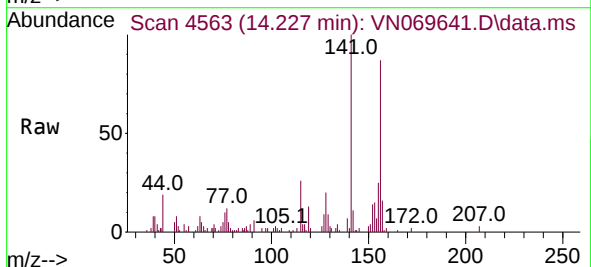
Instrument :
MSVOA_N
ClientSampleId :

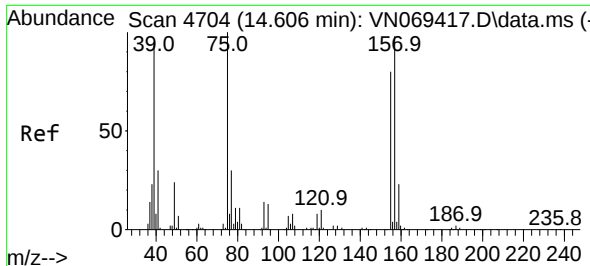
Tgt Ion: 75 Resp: 728247
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#90
Hexachloroethane
Concen: 2.213 ug/l
RT: 14.227 min Scan# 4563
Delta R.T. 0.016 min
Lab File: VN069641.D
Acq: 24 Nov 2021 14:41

Tgt Ion: 117 Resp: 743
Ion Ratio Lower Upper
117 100
201 0.0 43.9 131.6#

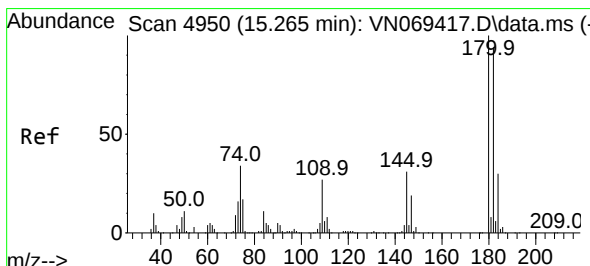
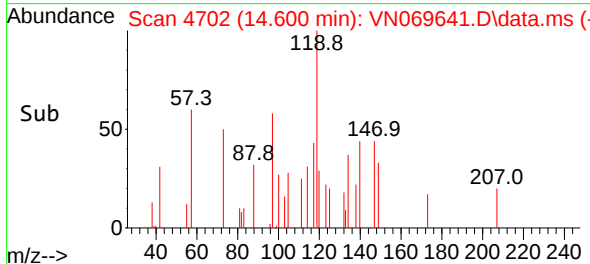
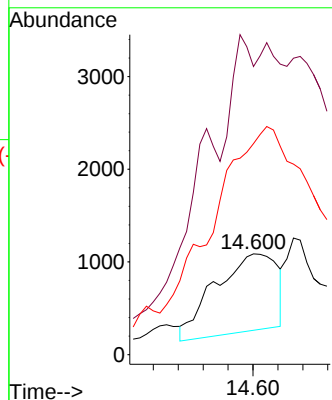
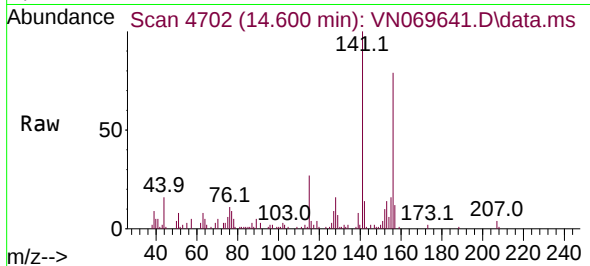




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.026 ug/l
 RT: 14.600 min Scan# 41
 Delta R.T. -0.006 min
 Lab File: VN069641.D
 Acq: 24 Nov 2021 14:41

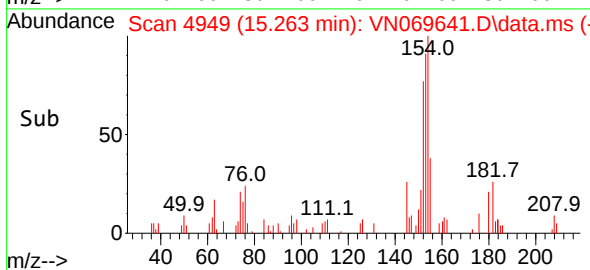
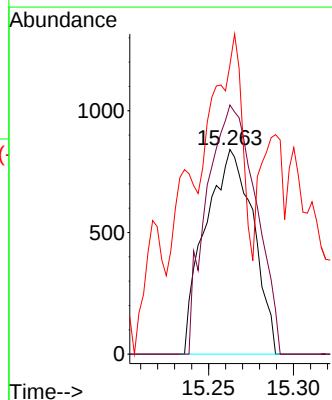
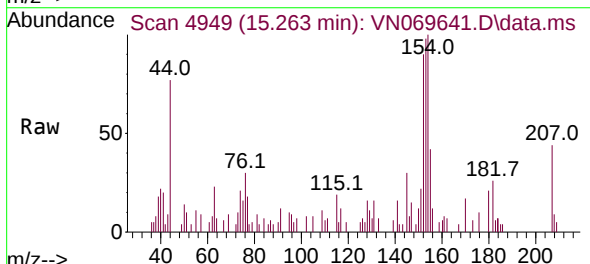
Instrument :
 MSVOA_N
 ClientSampleId :

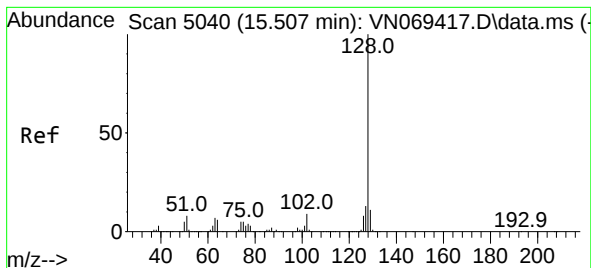
Tgt Ion: 75 Resp: 1446
 Ion Ratio Lower Upper
 75 100
 155 53.5 46.9 140.7
 157 529.7 60.6 181.7#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.194 ug/l
 RT: 15.263 min Scan# 4949
 Delta R.T. -0.002 min
 Lab File: VN069641.D
 Acq: 24 Nov 2021 14:41

Tgt Ion:180 Resp: 1646
 Ion Ratio Lower Upper
 180 100
 182 125.3 48.3 144.9
 145 67.3 14.5 43.5#





#95

Naphthalene

Concen: 5.610 ug/l

RT: 15.507 min Scan# 5040

Delta R.T. -0.000 min

Lab File: VN069641.D

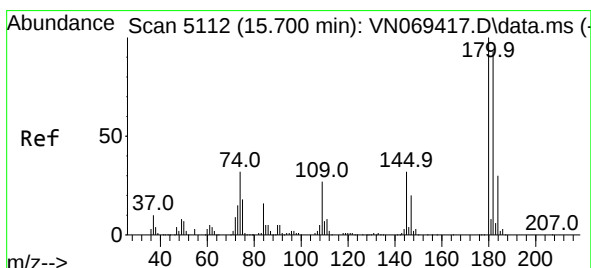
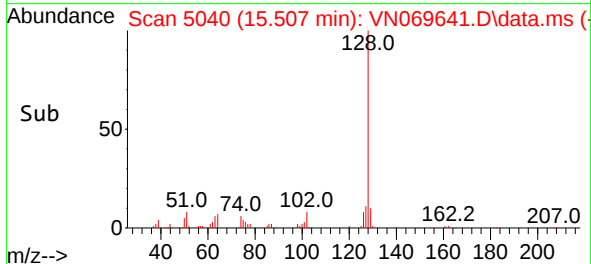
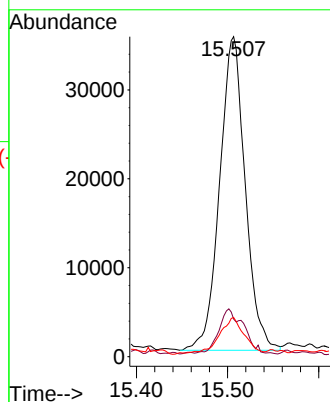
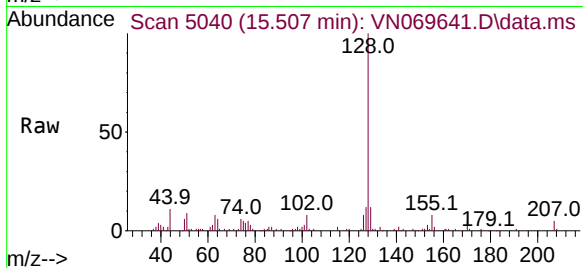
Acq: 24 Nov 2021 14:41

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128	Resp:	68780
Ion Ratio	Lower	Upper
128	100	
127	14.0	10.5 15.7
129	10.8	8.7 13.1



#96

1,2,3-Trichlorobenzene

Concen: 3.277 ug/l

RT: 15.700 min Scan# 5112

Delta R.T. -0.000 min

Lab File: VN069641.D

Acq: 24 Nov 2021 14:41

Tgt Ion:180	Resp:	2114
Ion Ratio	Lower	Upper
180	100	
182	108.9	47.4 142.2
145	87.0	15.0 45.1#

