

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111921\
 Data File : VN069594.D
 Acq On : 19 Nov 2021 19:04
 Operator : JC/MD
 Sample : M4764-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 22 05:09:16 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	1551106	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2692974	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	2625248	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	987594	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1147281	51.012	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 102.020%	
35) Dibromofluoromethane	8.024	113	790881	48.967	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 97.940%	
50) Toluene-d8	10.443	98	3361036	52.911	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 105.820%	
62) 4-Bromofluorobenzene	12.733	95	1192978	51.122	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 102.240%	

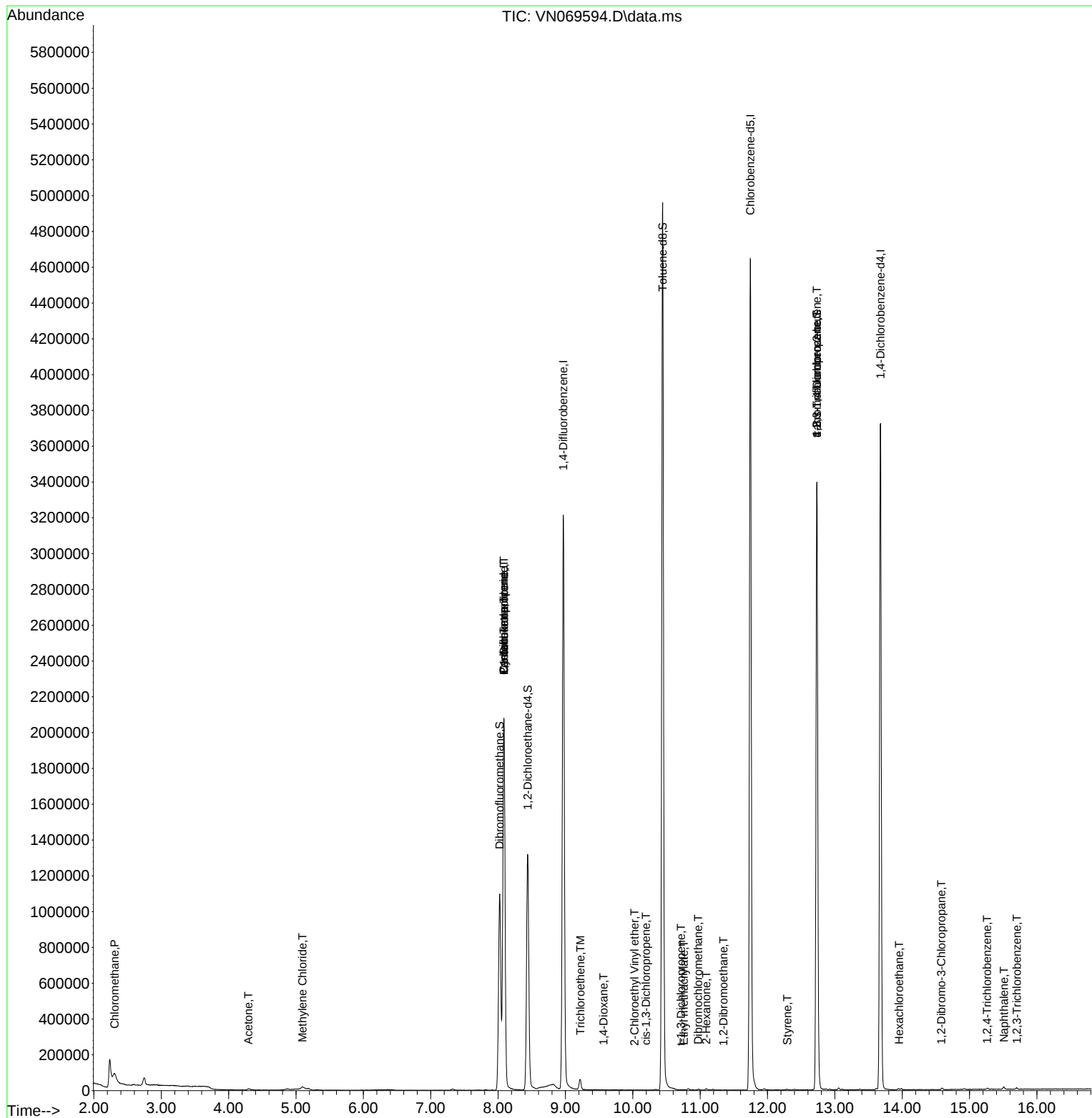
Target Compounds				Qvalue		
3) Chloromethane	2.306	50	4993	0.260	ug/l #	85
13) Acrolein	4.049	56	197	Below Cal	#	23
16) Acetone	4.293	43	3507	0.289	ug/l #	87
20) Methylene Chloride	5.095	84	7841	0.456	ug/l #	87
31) Cyclohexane	8.086	56	41325	1.345	ug/l #	44
36) 1,1-Dichloropropene	8.088	75	132383	5.842	ug/l #	49
38) Carbon Tetrachloride	8.088	117	164532	7.521	ug/l #	16
44) Trichloroethene	9.223	130	20665	1.235	ug/l	95
49) 1,4-Dioxane	9.566	88	57	39.178	ug/l #	1
53) t-1,3-Dichloropropene	10.717	75	286	2.647	ug/l #	43
54) cis-1,3-Dichloropropene	10.196	75	54	1.735	ug/l #	40
56) Ethyl methacrylate	10.759	69	610	2.071	ug/l #	77
58) 2-Chloroethyl Vinyl ether	10.025	63	26	22.773	ug/l #	45
59) 2-Hexanone	11.089	43	5519	8.141	ug/l	80
60) Dibromochloromethane	10.971	129	998	2.467	ug/l #	11
61) 1,2-Dibromoethane	11.344	107	85	1.075	ug/l #	2
70) Styrene	12.294	104	1049	1.537	ug/l #	77
76) 1,2,3-Trichloropropane	12.733	75	673412	29.547	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	673412	83.558	ug/l #	5
90) Hexachloroethane	13.954	117	86	2.169	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.579	75	521	1.899	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.260	180	2627	3.272	ug/l	95
95) Naphthalene	15.512	128	11337	4.687	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.702	180	2836	3.348	ug/l	95

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110921W.M
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Response via : Initial Calibration

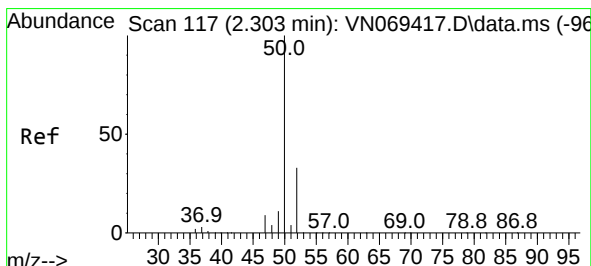
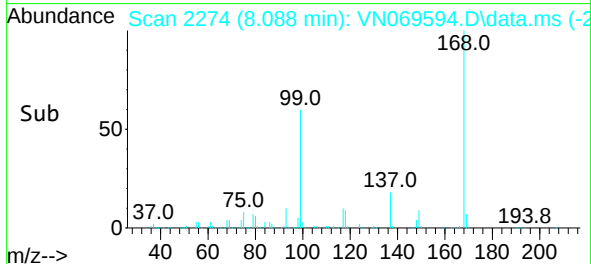
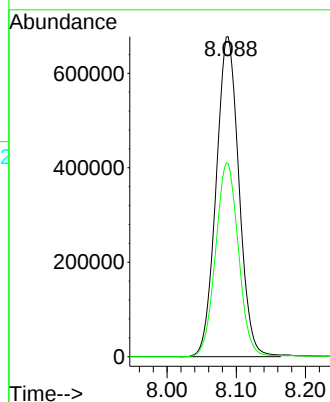
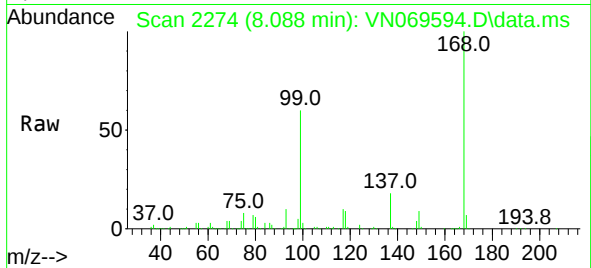




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

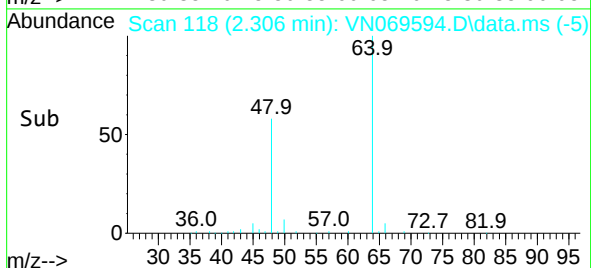
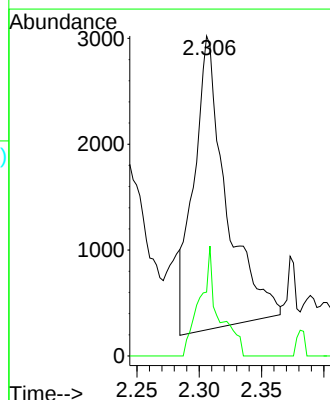
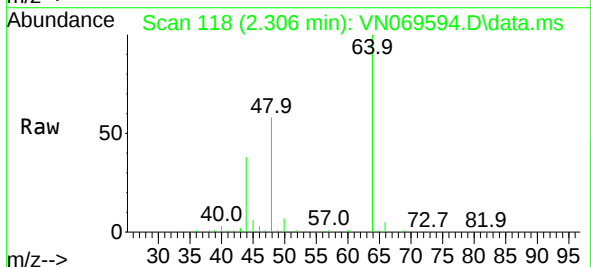
Instrument :
MSVOA_N
ClientSampleId :

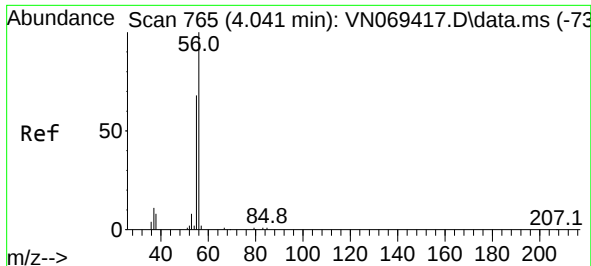
Tgt Ion:168 Resp: 1551106
Ion Ratio Lower Upper
168 100
99 60.3 41.3 61.9



#3
Chloromethane
Concen: 0.260 ug/l
RT: 2.306 min Scan# 118
Delta R.T. 0.003 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

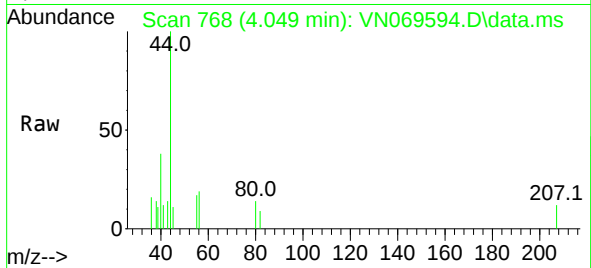
Tgt Ion: 50 Resp: 4993
Ion Ratio Lower Upper
50 100
52 23.6 25.4 38.0#



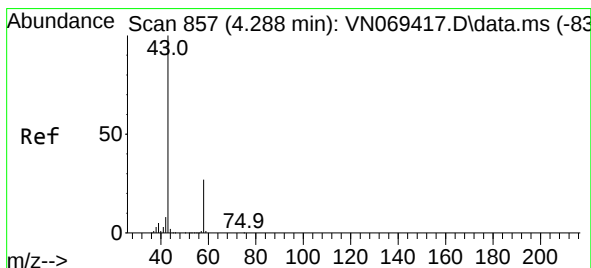
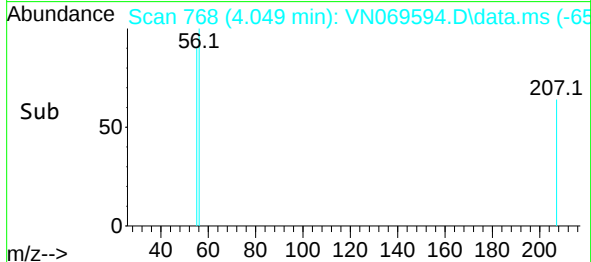
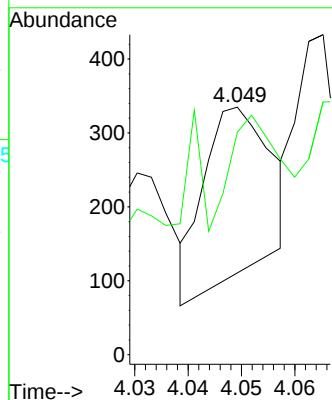


#13
Acrolein
Concen: Below Cal
RT: 4.049 min Scan# 765
Delta R.T. 0.008 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

Instrument :
MSVOA_N
ClientSampleId :

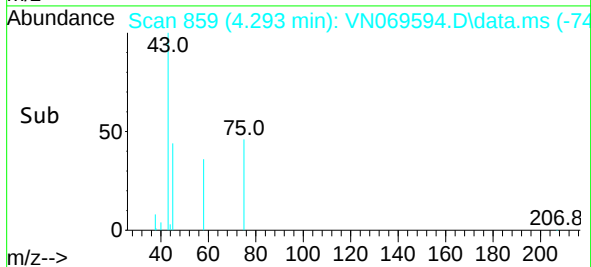
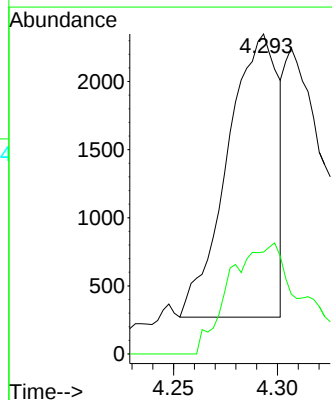
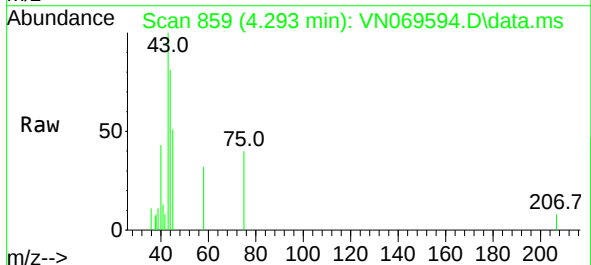


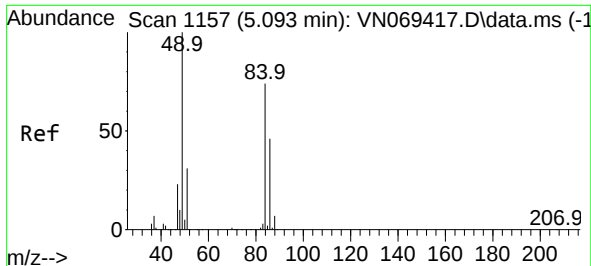
Tgt Ion: 56 Resp: 197
Ion Ratio Lower Upper
56 100
55 134.5 56.6 85.0#



#16
Acetone
Concen: 0.289 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.005 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

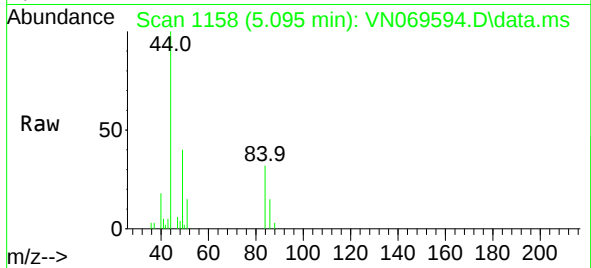
Tgt Ion: 43 Resp: 3507
Ion Ratio Lower Upper
43 100
58 36.0 23.1 34.7#



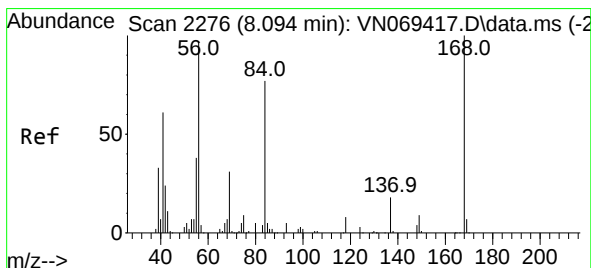
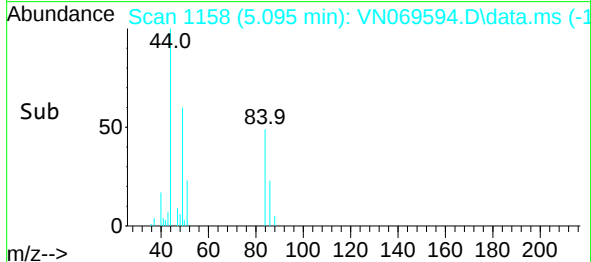
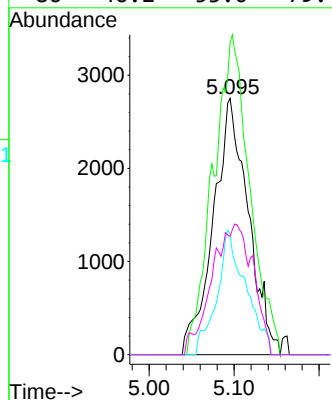


#20
Methylene Chloride
Concen: 0.456 ug/l
RT: 5.095 min Scan# 1157
Delta R.T. 0.002 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

Instrument :
MSVOA_N
ClientSampleId :

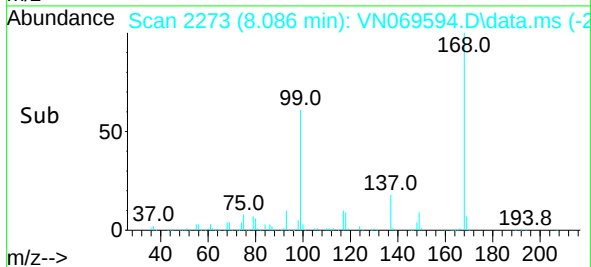
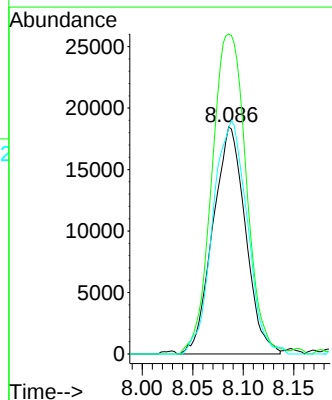
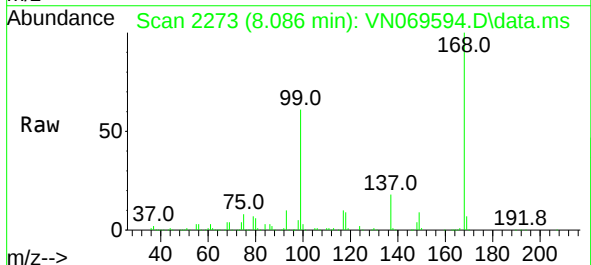


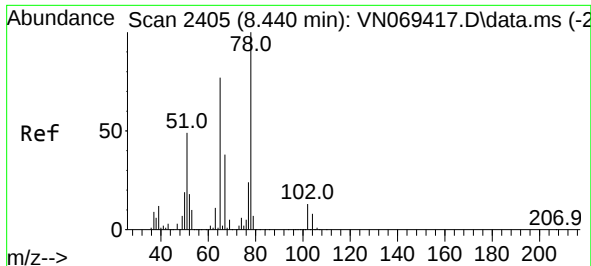
Tgt Ion: 84 Resp: 7841
Ion Ratio Lower Upper
84 100
49 121.8 93.5 140.3
51 47.0 29.4 44.2#
86 46.2 53.0 79.4#



#31
Cyclohexane
Concen: 1.345 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.008 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

Tgt Ion: 56 Resp: 41325
Ion Ratio Lower Upper
56 100
69 140.9 27.1 40.7#
84 99.4 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 51.012 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. -0.000 min

Lab File: VN069594.D

Acq: 19 Nov 2021 19:04

Instrument :

MSVOA_N

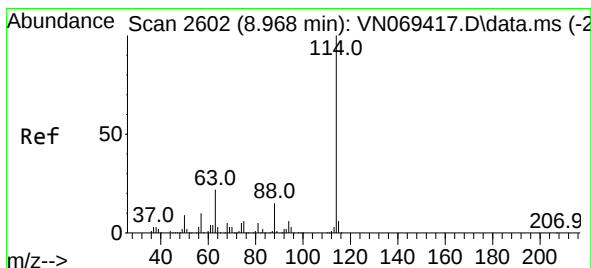
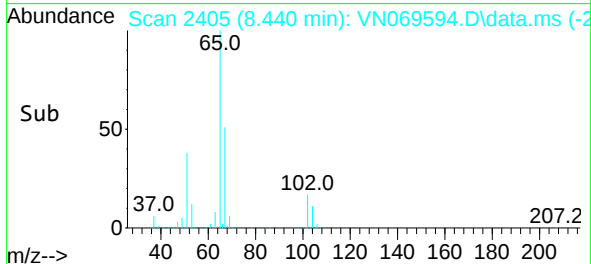
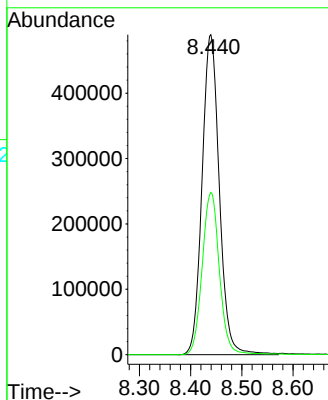
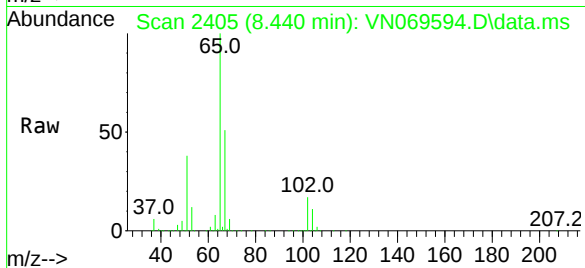
ClientSampleId :

Tgt Ion: 65 Resp: 1147281

Ion Ratio Lower Upper

65 100

67 50.3 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. -0.000 min

Lab File: VN069594.D

Acq: 19 Nov 2021 19:04

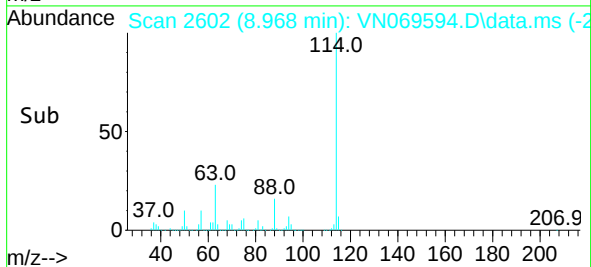
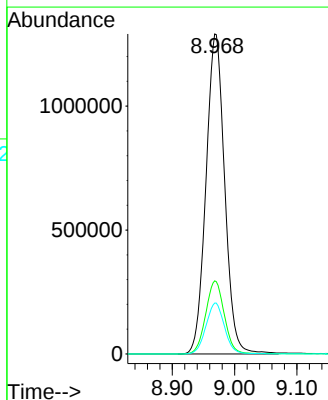
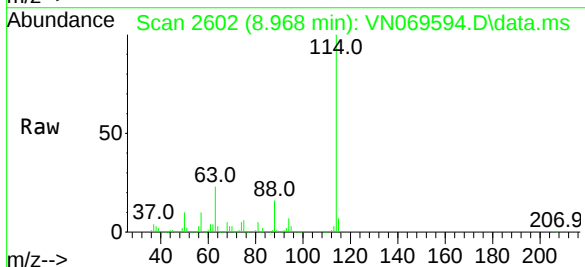
Tgt Ion: 114 Resp: 2692974

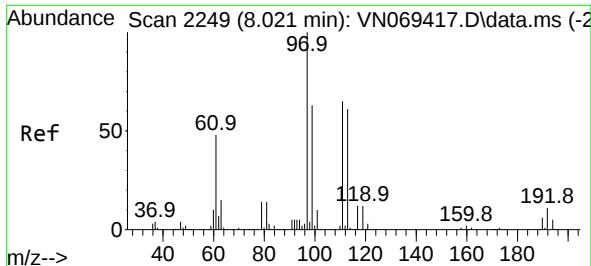
Ion Ratio Lower Upper

114 100

63 22.8 0.0 37.8

88 15.9 0.0 27.4

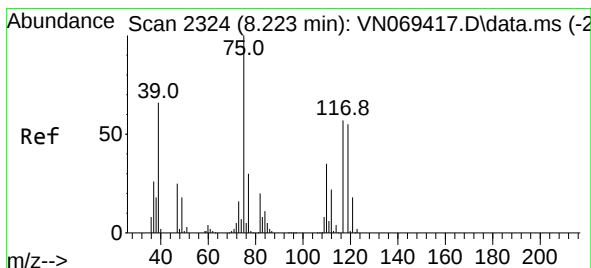
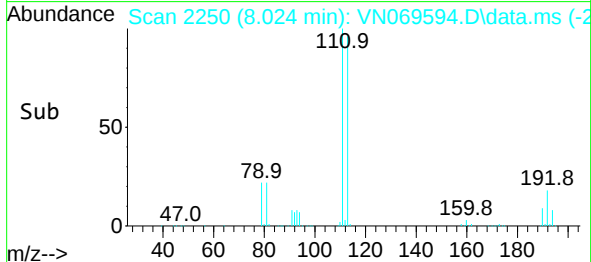
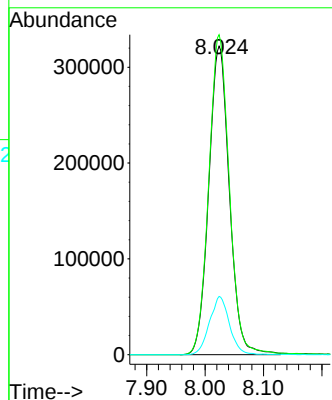
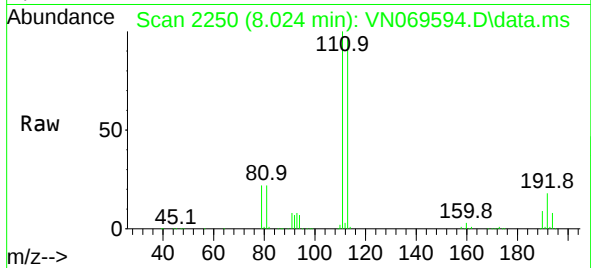




#35
Dibromofluoromethane
Concen: 48.967 ug/l
RT: 8.024 min Scan# 2113
Delta R.T. 0.003 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

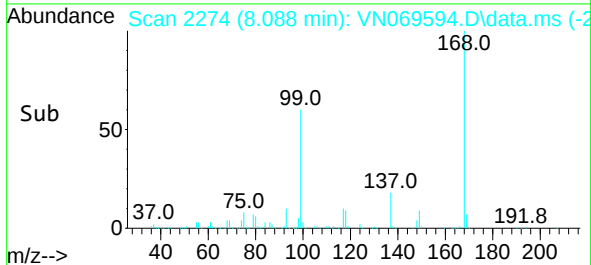
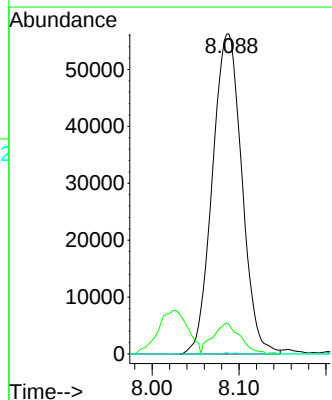
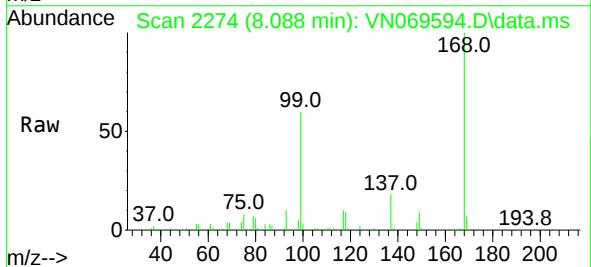
Instrument :
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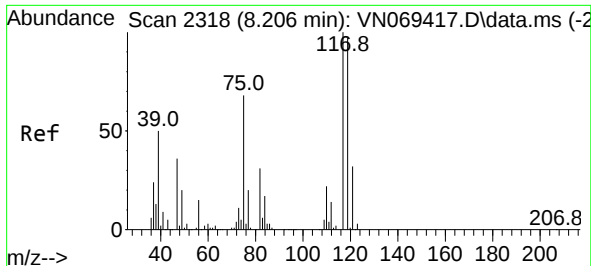
Tgt Ion:113 Resp: 790881
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.2
192 18.2 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.842 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.135 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

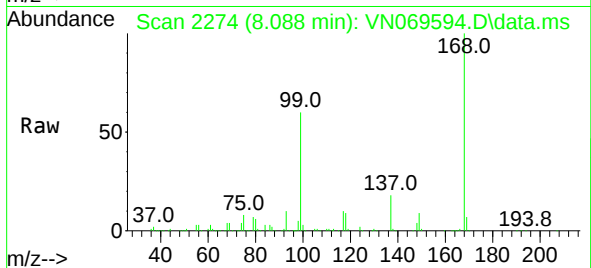
Tgt Ion: 75 Resp: 132383
Ion Ratio Lower Upper
75 100
110 9.0 18.4 55.2#
77 0.1 24.4 36.6#



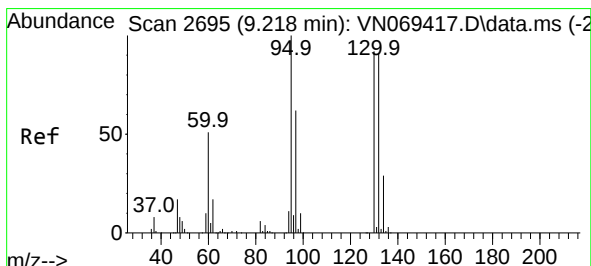
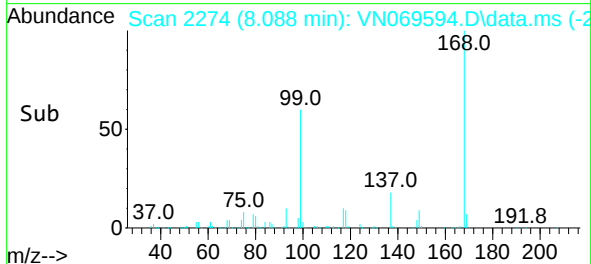
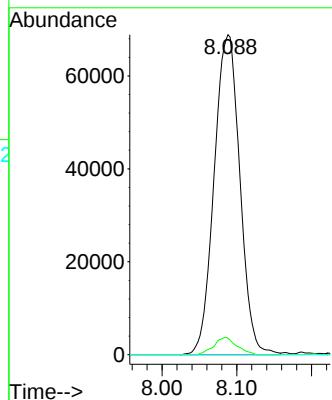


#38
Carbon Tetrachloride
Concen: 7.521 ug/l
RT: 8.088 min Scan# 211
Delta R.T. -0.118 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

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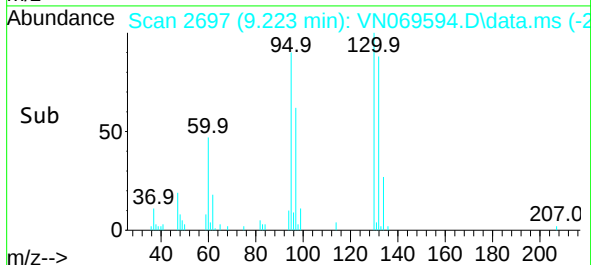
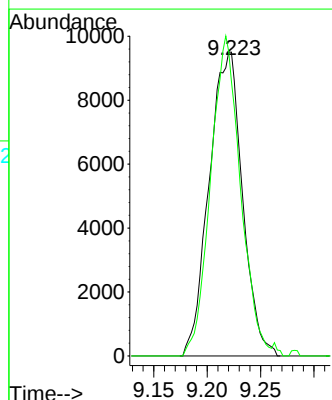
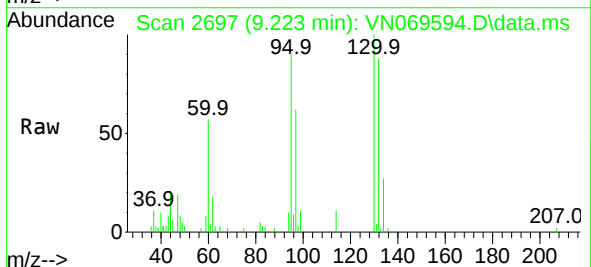


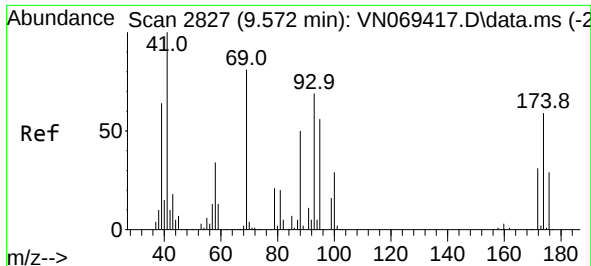
Tgt Ion:117 Resp: 164532
Ion Ratio Lower Upper
117 100
119 5.1 76.1 114.1#
121 0.0 24.2 36.2#



#44
Trichloroethene
Concen: 1.235 ug/l
RT: 9.223 min Scan# 2697
Delta R.T. 0.005 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

Tgt Ion:130 Resp: 20665
Ion Ratio Lower Upper
130 100
95 90.5 0.0 191.2





#49

1,4-Dioxane

Concen: 39.178 ug/l

RT: 9.566 min Scan# 21

Delta R.T. -0.006 min

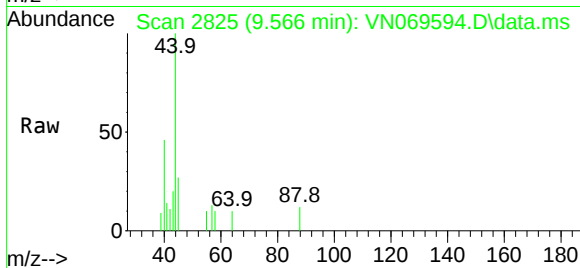
Lab File: VN069594.D

Acq: 19 Nov 2021 19:04

Instrument :

MSVOA_N

ClientSampleId :



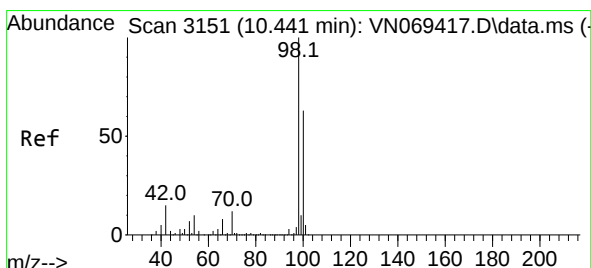
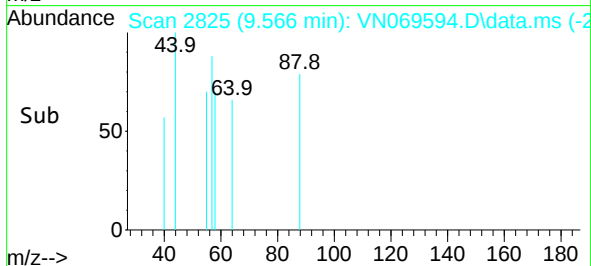
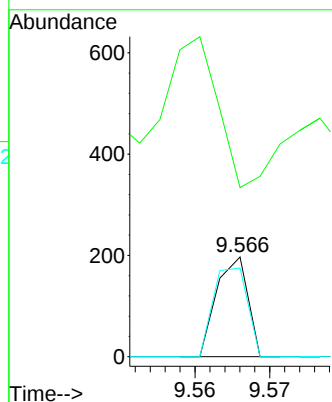
Tgt Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 242.1 23.4 35.2#

58 98.2 50.6 75.8#



#50

Toluene-d8

Concen: 52.911 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.002 min

Lab File: VN069594.D

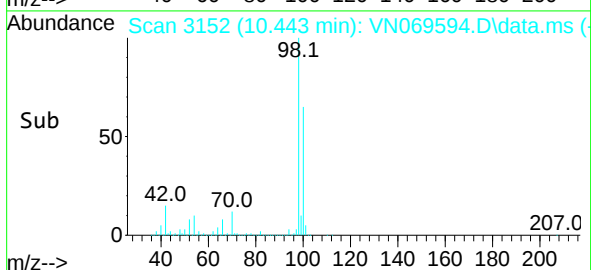
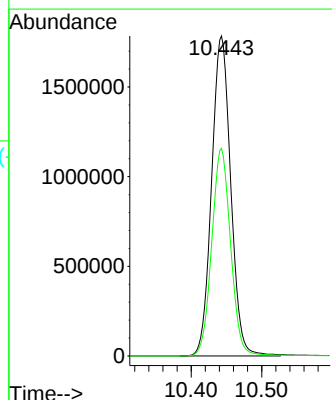
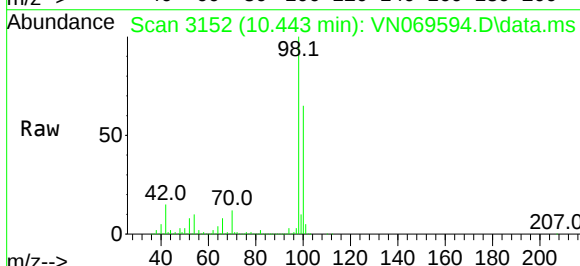
Acq: 19 Nov 2021 19:04

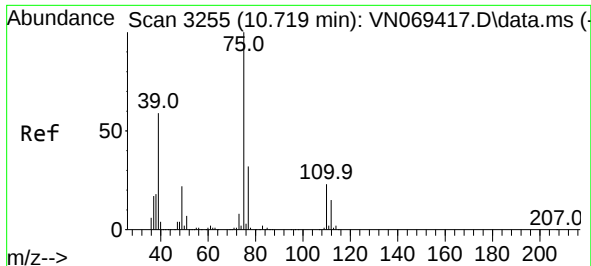
Tgt Ion: 98 Resp: 3361036

Ion Ratio Lower Upper

98 100

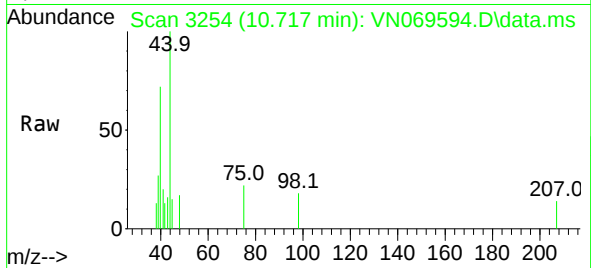
100 64.2 50.4 75.6



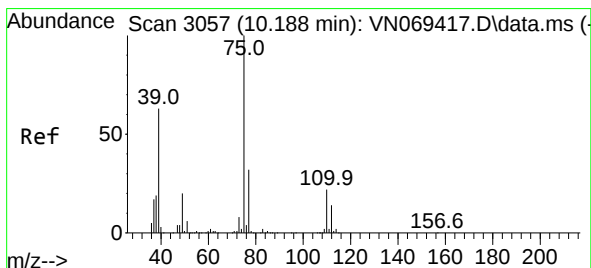
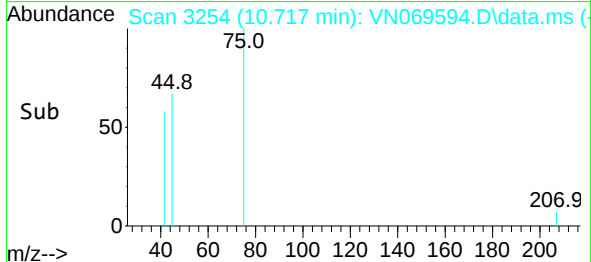
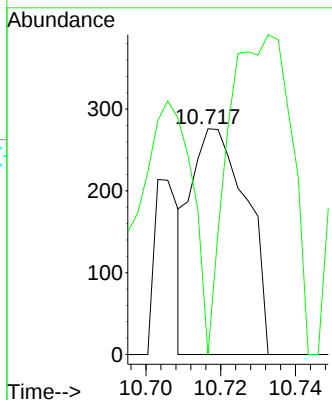


#53
 t-1,3-Dichloropropene
 Concen: 2.647 ug/l
 RT: 10.717 min Scan# 31
 Delta R.T. -0.002 min
 Lab File: VN069594.D
 Acq: 19 Nov 2021 19:04

Instrument :
 MSVOA_N
 ClientSampleId :

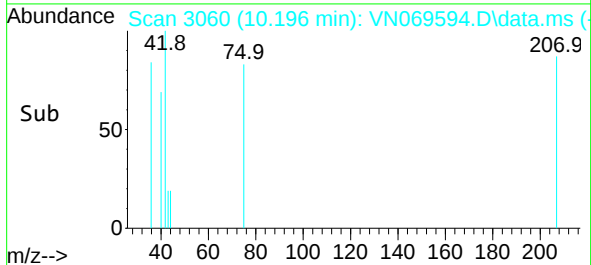
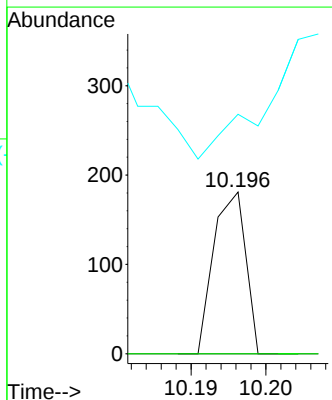
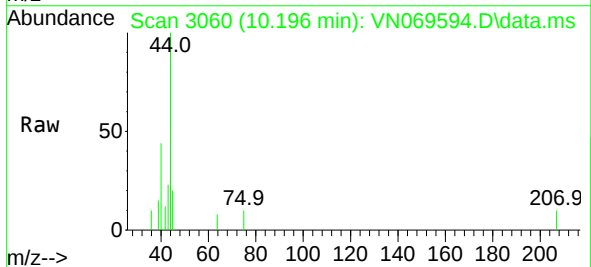


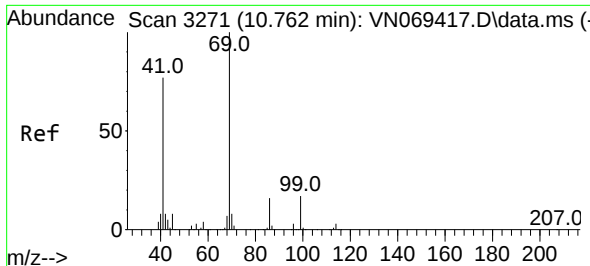
Tgt Ion: 75 Resp: 286
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.6 38.4#



#54
 cis-1,3-Dichloropropene
 Concen: 1.735 ug/l
 RT: 10.196 min Scan# 3060
 Delta R.T. 0.008 min
 Lab File: VN069594.D
 Acq: 19 Nov 2021 19:04

Tgt Ion: 75 Resp: 54
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.4 39.6#
 39 9.4 42.5 63.7#

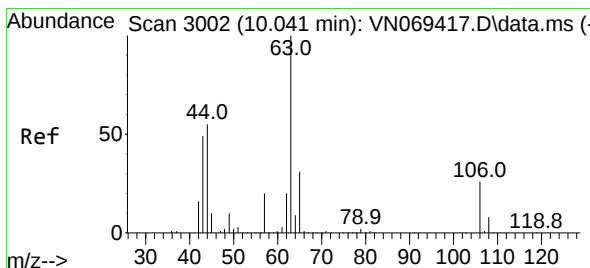
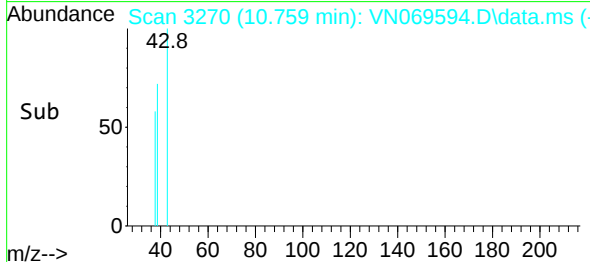
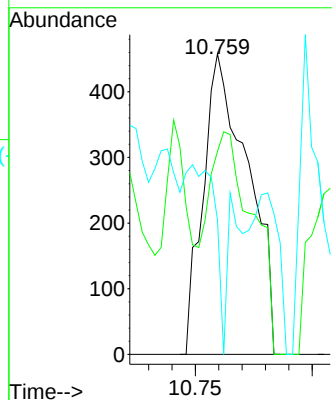
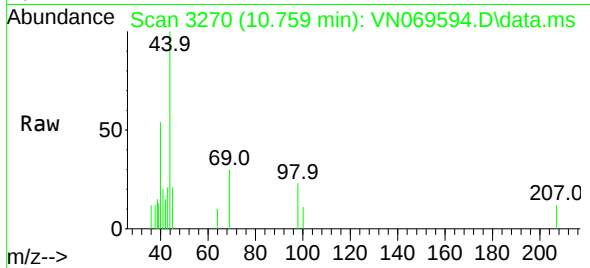




#56
Ethyl methacrylate
Concen: 2.071 ug/l
RT: 10.759 min Scan# 31
Delta R.T. -0.003 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

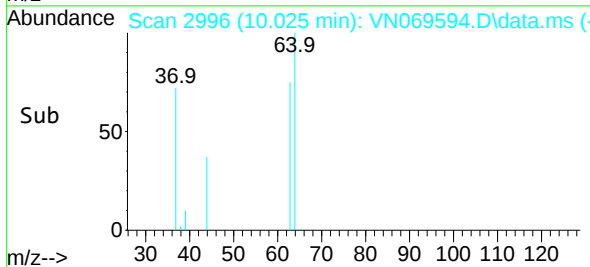
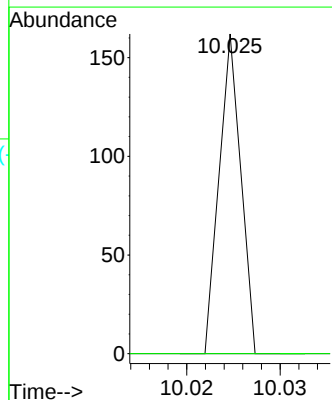
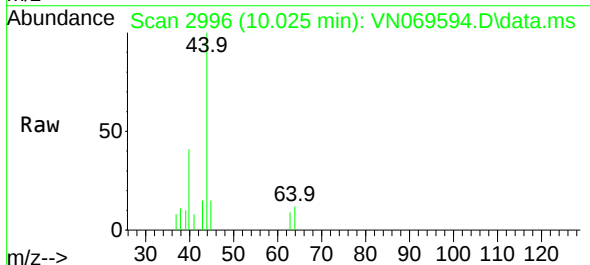
Instrument :
MSVOA_N
ClientSampleId :

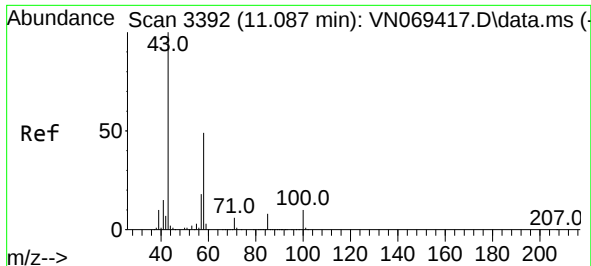
Tgt Ion: 69 Resp: 610
Ion Ratio Lower Upper
69 100
41 73.0 51.4 77.0
39 16.6 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 22.773 ug/l
RT: 10.025 min Scan# 2996
Delta R.T. -0.016 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

Tgt Ion: 63 Resp: 26
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

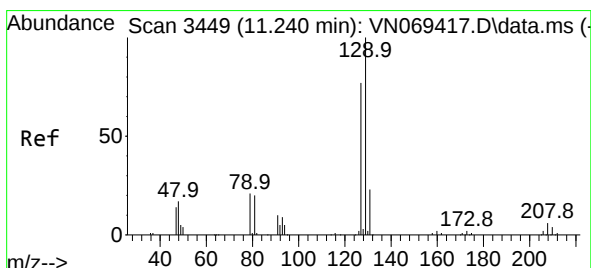
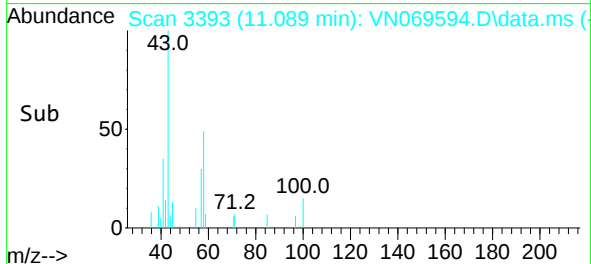
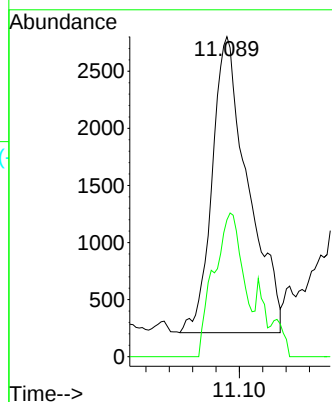
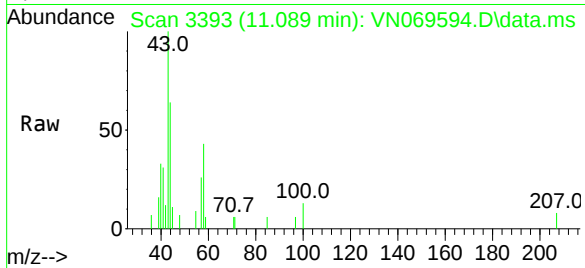




#59
2-Hexanone
Concen: 8.141 ug/l
RT: 11.089 min Scan# 3392
Delta R.T. 0.002 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

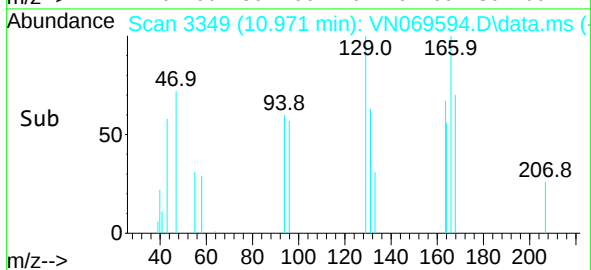
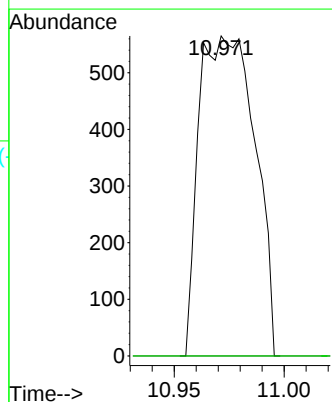
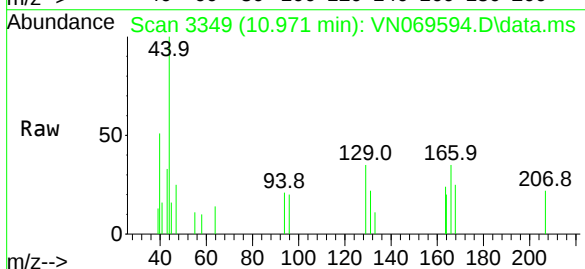
Instrument :
MSVOA_N
ClientSampleId :

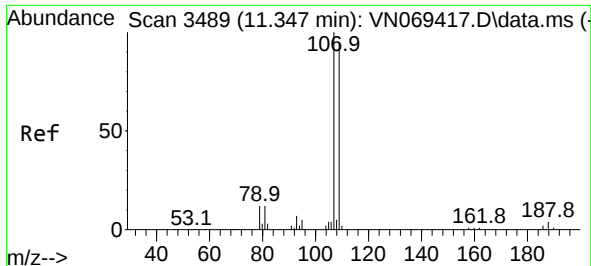
Tgt Ion: 43 Resp: 5519
Ion Ratio Lower Upper
43 100
58 39.3 26.9 80.7



#60
Dibromochloromethane
Concen: 2.467 ug/l
RT: 10.971 min Scan# 3349
Delta R.T. -0.269 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

Tgt Ion: 129 Resp: 998
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

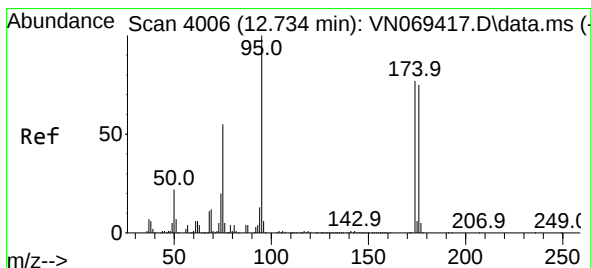
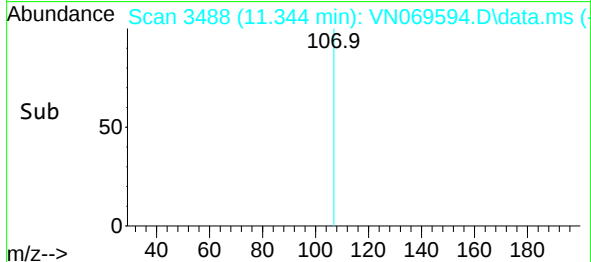
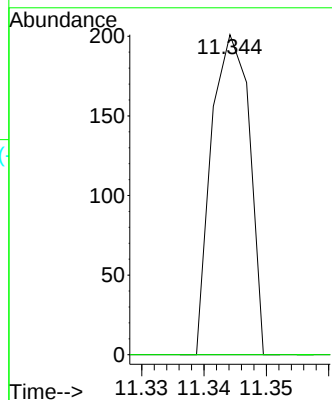
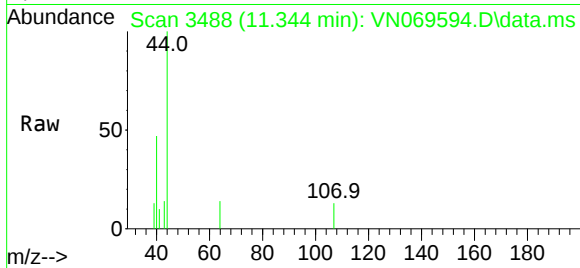




#61
1,2-Dibromoethane
Concen: 1.075 ug/l
RT: 11.344 min Scan# 3489
Delta R.T. -0.003 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

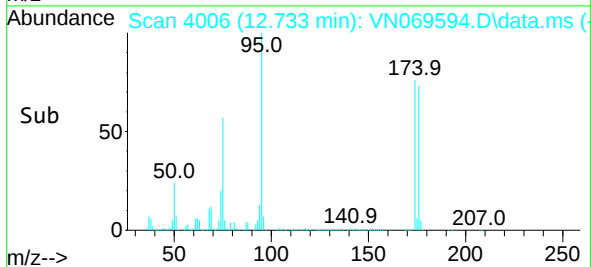
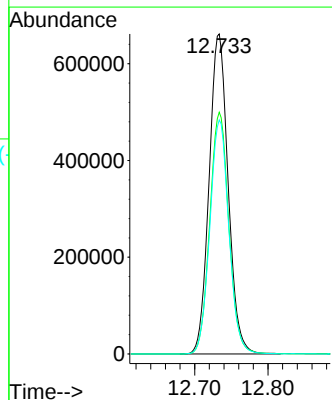
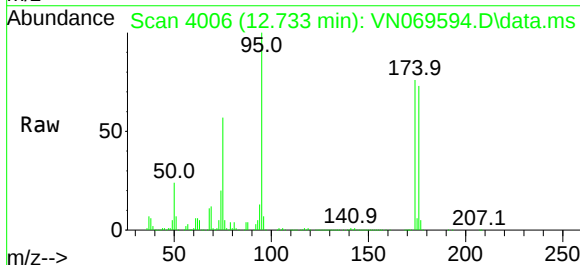
Instrument :
MSVOA_N
ClientSampleId :

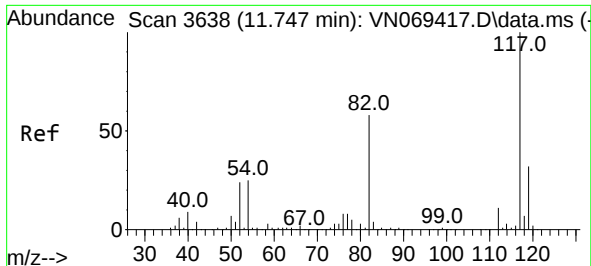
Tgt Ion:107 Resp: 85
Ion Ratio Lower Upper
107 100
109 0.0 75.7 113.5#



#62
4-Bromofluorobenzene
Concen: 51.122 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.001 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

Tgt Ion: 95 Resp: 1192978
Ion Ratio Lower Upper
95 100
174 75.8 0.0 187.2
176 73.1 0.0 181.4

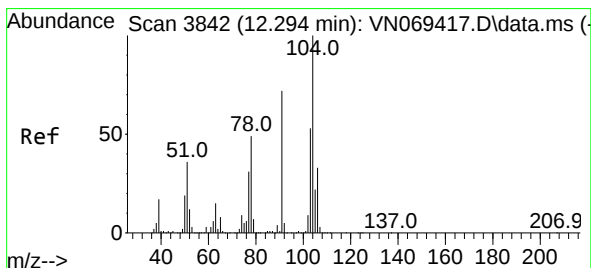
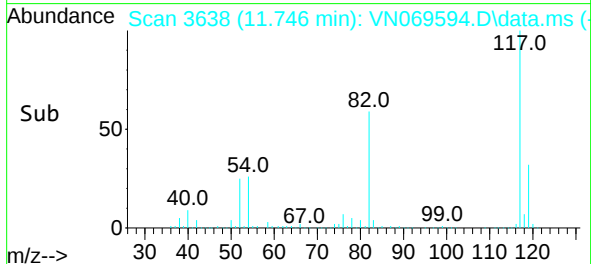
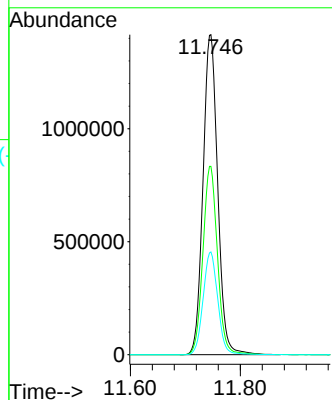
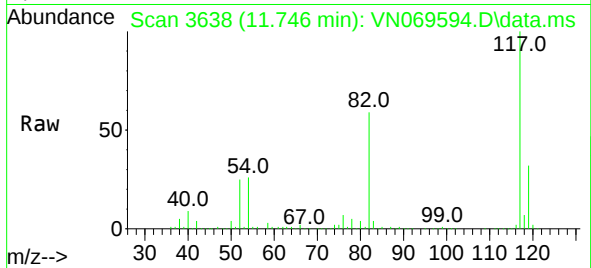




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.001 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

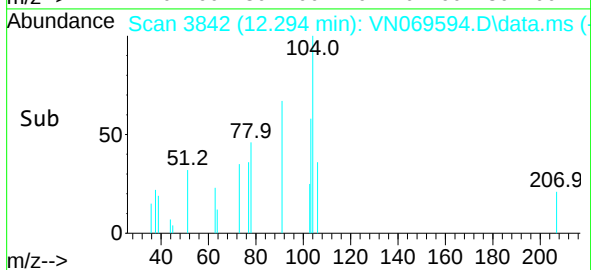
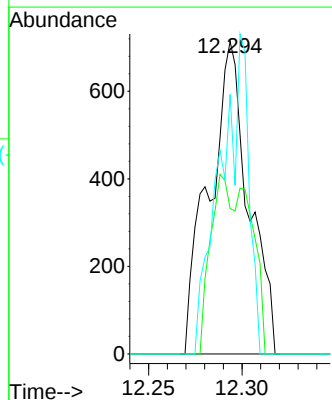
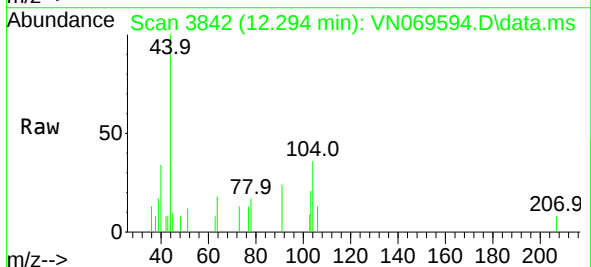
Instrument :
MSVOA_N
ClientSampleId :

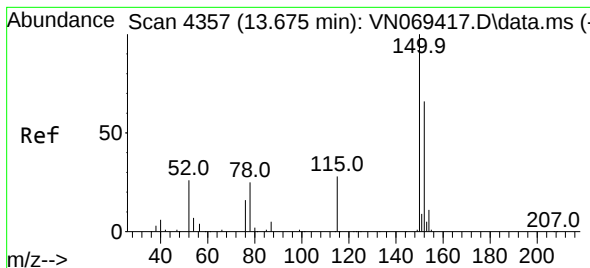
Tgt Ion:117 Resp: 2625248
Ion Ratio Lower Upper
117 100
82 58.8 42.4 63.6
119 32.1 25.4 38.2



#70
Styrene
Concen: 1.537 ug/l
RT: 12.294 min Scan# 3842
Delta R.T. -0.000 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

Tgt Ion:104 Resp: 1049
Ion Ratio Lower Upper
104 100
78 34.1 38.7 58.1#
103 73.8 45.0 67.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.677 min Scan# 41

Delta R.T. 0.002 min

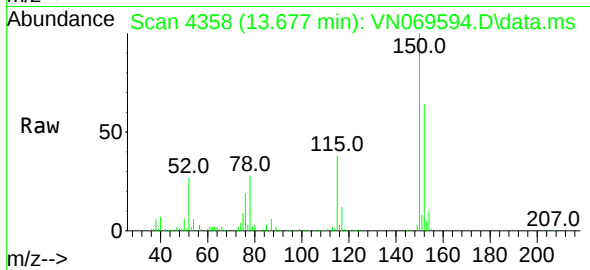
Lab File: VN069594.D

Acq: 19 Nov 2021 19:04

Instrument :

MSVOA_N

ClientSampleId :



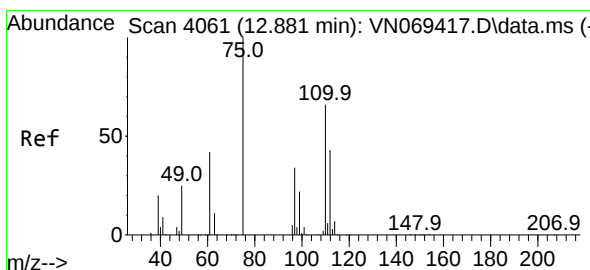
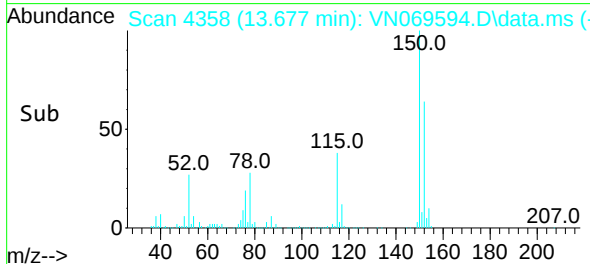
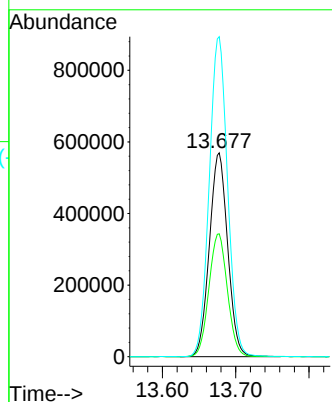
Tgt Ion:152 Resp: 987594

Ion Ratio Lower Upper

152 100

115 61.0 27.5 82.5

150 157.1 0.0 344.4



#76

1,2,3-Trichloropropane

Concen: 29.547 ug/l

RT: 12.733 min Scan# 4006

Delta R.T. -0.148 min

Lab File: VN069594.D

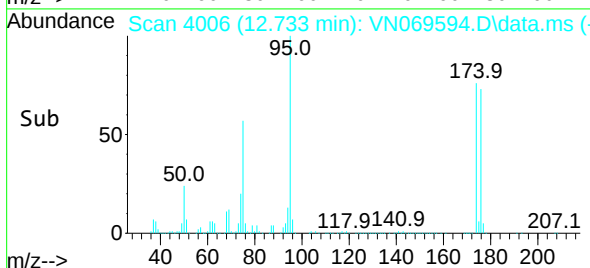
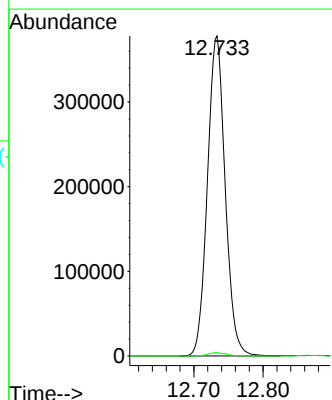
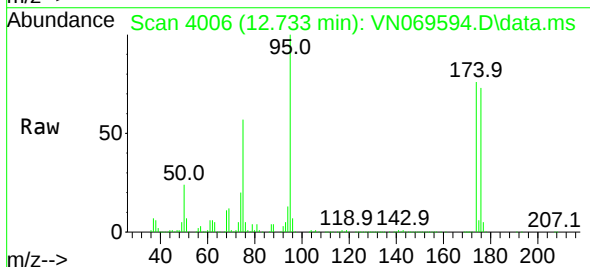
Acq: 19 Nov 2021 19:04

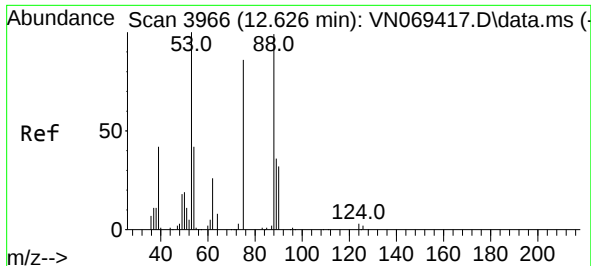
Tgt Ion: 75 Resp: 673412

Ion Ratio Lower Upper

75 100

77 1.1 82.6 247.8#

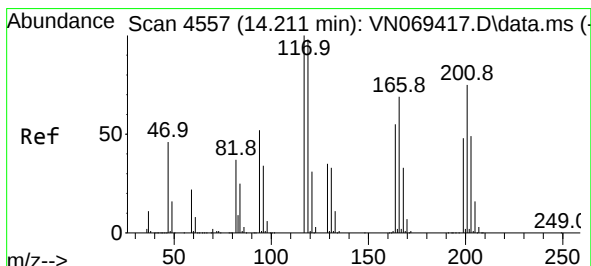
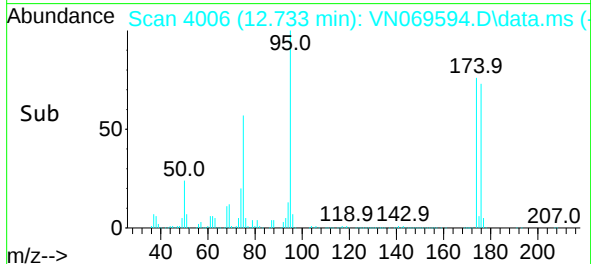
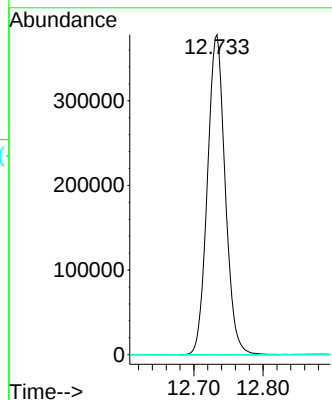
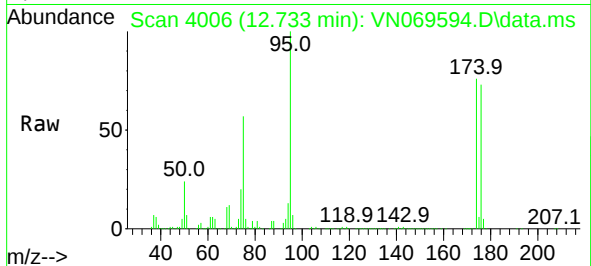




#81
trans-1,4-Dichloro-2-butene
Concen: 83.558 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

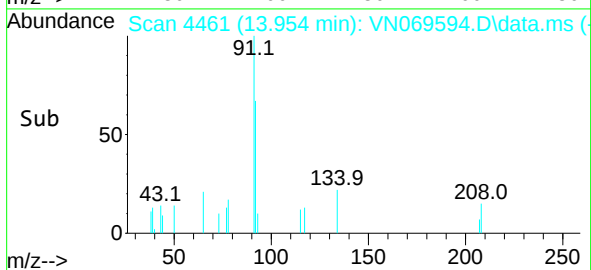
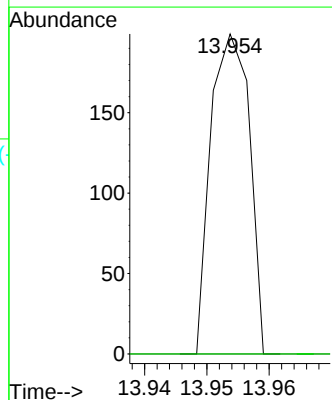
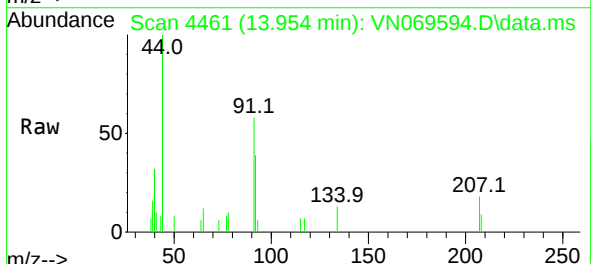
Instrument :
MSVOA_N
ClientSampleId :

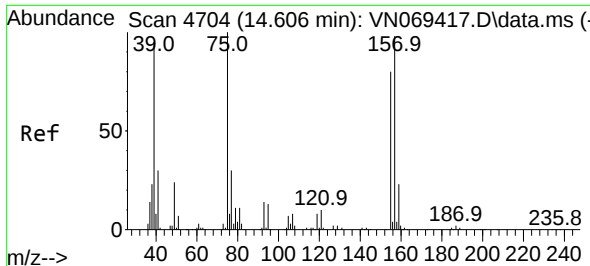
Tgt Ion: 75 Resp: 673412
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#90
Hexachloroethane
Concen: 2.169 ug/l
RT: 13.954 min Scan# 4461
Delta R.T. -0.257 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

Tgt Ion: 117 Resp: 86
Ion Ratio Lower Upper
117 100
201 0.0 43.9 131.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.899 ug/l

RT: 14.579 min Scan# 41

Delta R.T. -0.027 min

Lab File: VN069594.D

Acq: 19 Nov 2021 19:04

Instrument :

MSVOA_N

ClientSampleId :

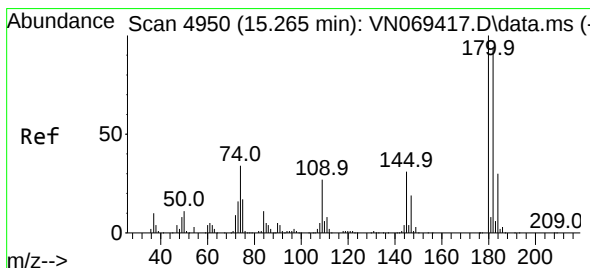
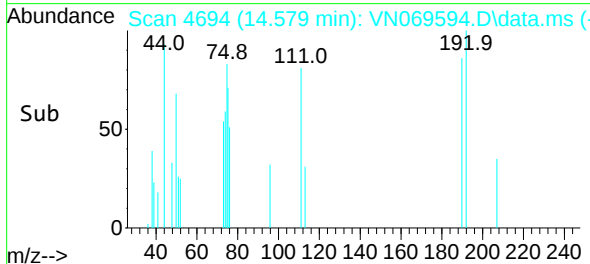
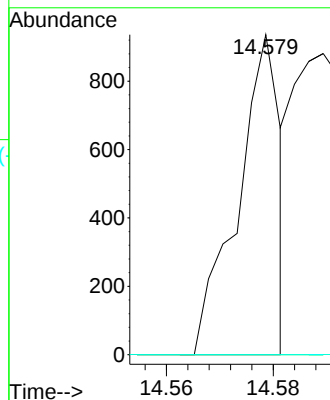
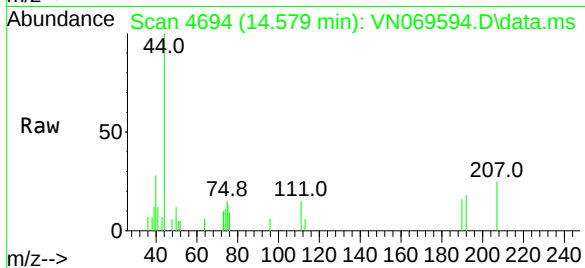
Tgt Ion: 75 Resp: 521

Ion Ratio Lower Upper

75 100

155 0.0 46.9 140.7#

157 0.0 60.6 181.7#



#93

1,2,4-Trichlorobenzene

Concen: 3.272 ug/l

RT: 15.260 min Scan# 4948

Delta R.T. -0.005 min

Lab File: VN069594.D

Acq: 19 Nov 2021 19:04

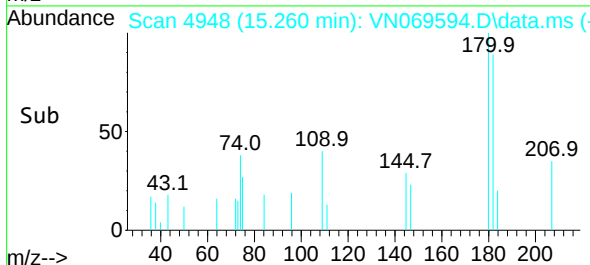
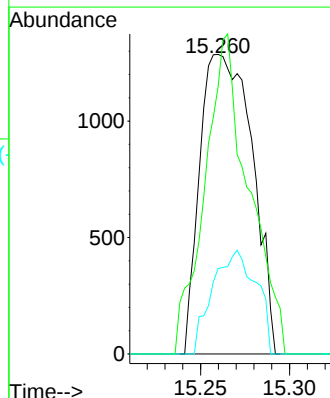
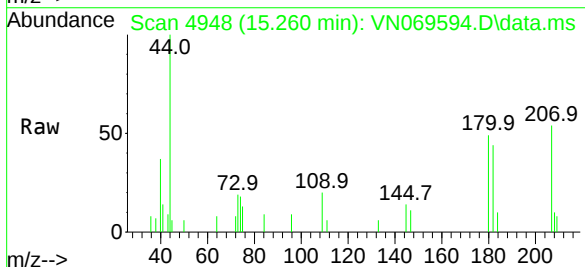
Tgt Ion: 180 Resp: 2627

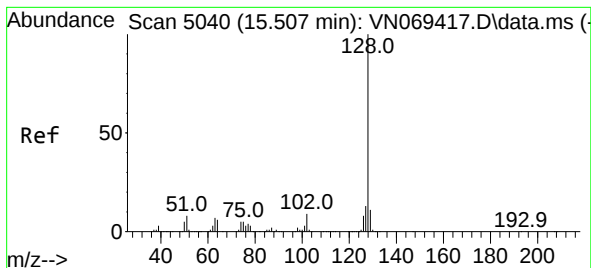
Ion Ratio Lower Upper

180 100

182 89.8 48.3 144.9

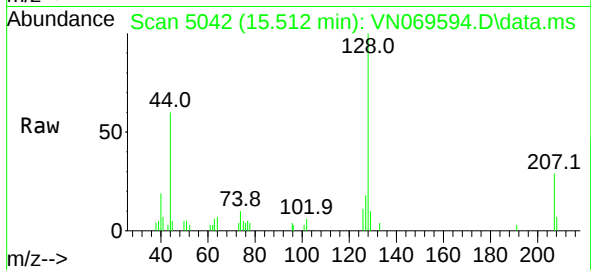
145 28.9 14.5 43.5



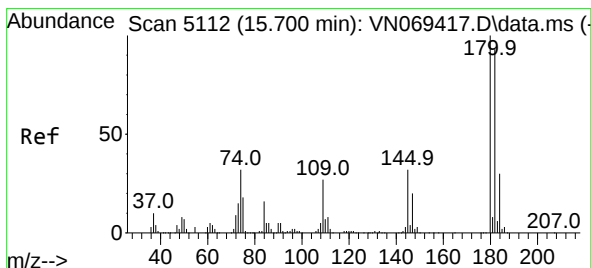
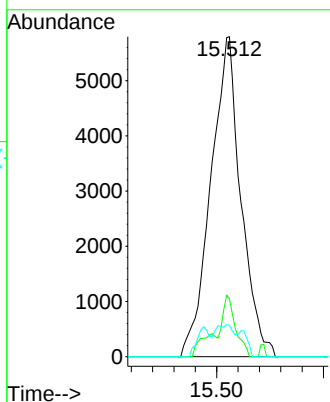
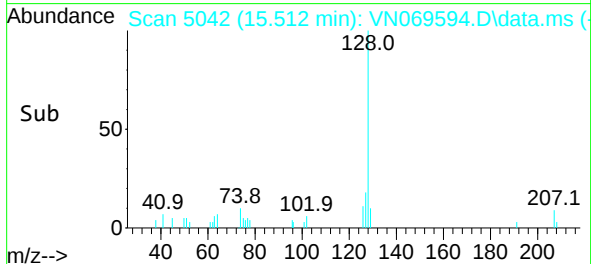


#95
Naphthalene
Concen: 4.687 ug/l
RT: 15.512 min Scan# 5040
Delta R.T. 0.005 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04

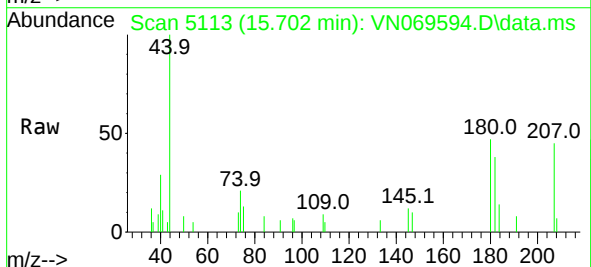
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 11337
Ion Ratio Lower Upper
128 100
127 8.4 10.5 15.7#
129 2.6 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 3.348 ug/l
RT: 15.702 min Scan# 5113
Delta R.T. 0.002 min
Lab File: VN069594.D
Acq: 19 Nov 2021 19:04



Tgt Ion:180 Resp: 2836
Ion Ratio Lower Upper
180 100
182 95.7 47.4 142.2
145 20.9 15.0 45.1

