

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111021\
 Data File : VN069443.D
 Acq On : 10 Nov 2021 15:41
 Operator : JC/MD
 Sample : VN1110WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1110WBL01

Quant Time: Nov 10 18:04:18 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

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

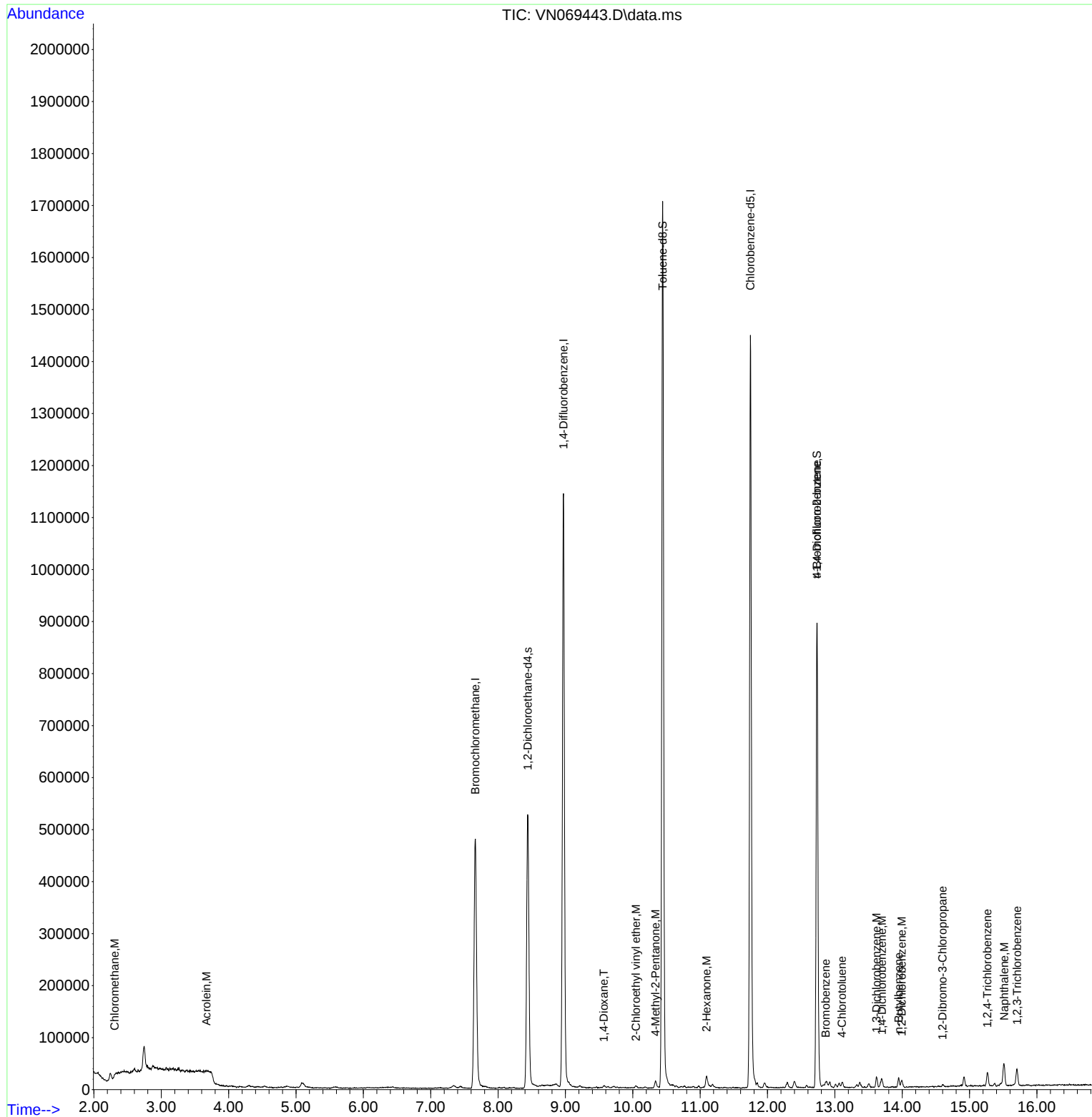
Internal Standards						
1) Bromochloromethane	7.662	128	162804	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	962420	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	814145	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	453030	32.085	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 106.967%	
60) 4-Bromofluorobenzene	12.734	95	316738	24.311	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 81.033%	
63) Toluene-d8	10.443	98	1178839	31.359	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 104.533%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.306	50	3261	0.260	ug/l	98
13) Acrolein	3.668	56	199	0.309	ug/l	96
45) 1,4-Dioxane	9.571	88	350	1.403	ug/l #	86
55) 2-Chloroethyl vinyl ether	10.049	63	1616	0.377	ug/l #	61
58) 4-Methyl-2-Pentanone	10.339	43	10087	0.564	ug/l #	89
59) 2-Hexanone	11.095	43	19427	1.429	ug/l #	86
73) Bromobenzene	12.865	156	2342	0.211	ug/l	62
77) t-1,4-Dichloro-2-butene	12.734	75	181291	43.381	ug/l #	8
78) 4-Chlorotoluene	13.106	91	6747	0.209	ug/l	89
83) 1,3-Dichlorobenzene	13.619	146	5436	0.286	ug/l	83
84) 1,4-Dichlorobenzene	13.699	146	6140	0.333	ug/l	73
85) n-Butylbenzene	13.948	91	10626	0.328	ug/l	94
87) 1,2-Dichlorobenzene	13.994	146	5853	0.319	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.597	75	584	0.210	ug/l #	67
89) 1,2,4-Trichlorobenzene	15.265	180	8459	0.963	ug/l	94
91) Naphthalene	15.515	128	43737	1.728	ug/l #	89
92) 1,2,3-Trichlorobenzene	15.705	180	11432	1.324	ug/l	95

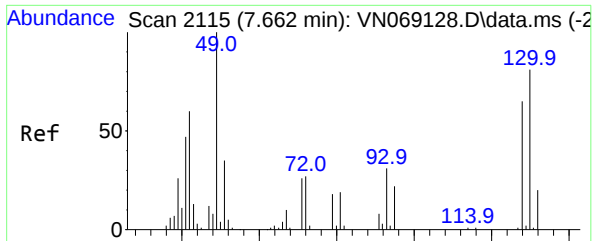
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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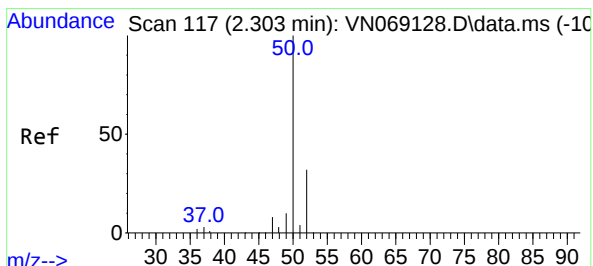
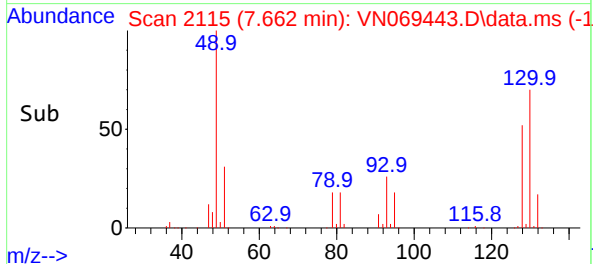
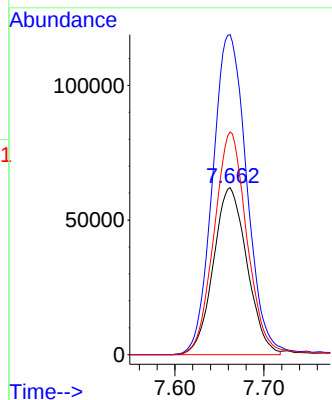
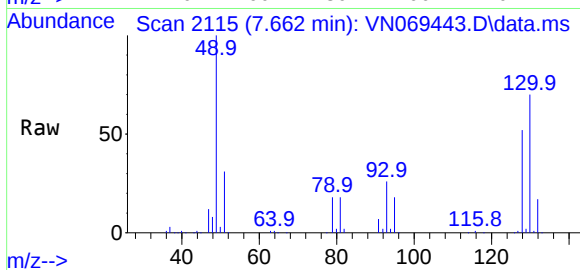




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

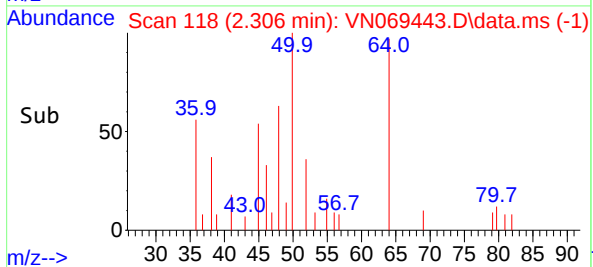
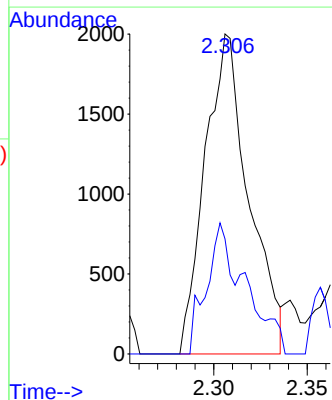
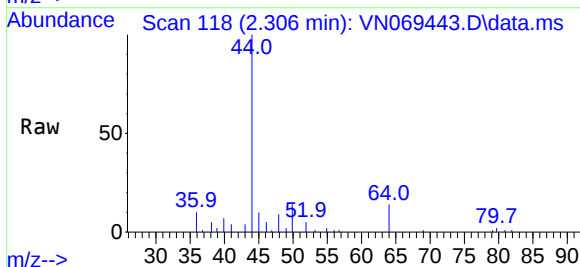
Instrument :
MSVOA_N
ClientSampleId :
VN1110WBL01

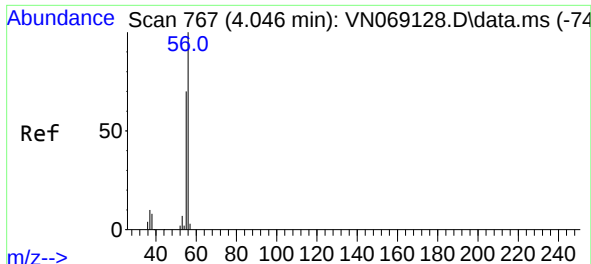
Tgt Ion:128 Resp: 162804
Ion Ratio Lower Upper
128 100
49 194.8 0.0 392.3
130 131.1 0.0 320.2



#3
Chloromethane
Concen: 0.260 ug/l
RT: 2.306 min Scan# 118
Delta R.T. 0.003 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

Tgt Ion: 50 Resp: 3261
Ion Ratio Lower Upper
50 100
52 35.9 27.8 41.6





#13

Acrolein

Concen: 0.309 ug/l

RT: 3.668 min Scan# 61

Delta R.T. -0.378 min

Lab File: VN069443.D

Acq: 10 Nov 2021 15:41

Instrument :

MSVOA_N

ClientSampleId :

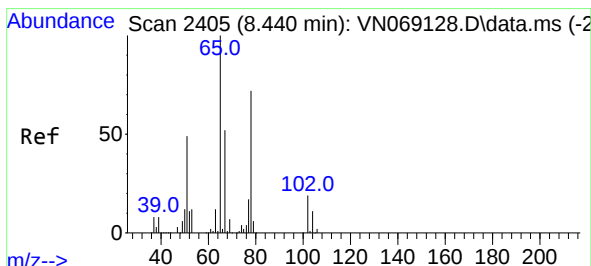
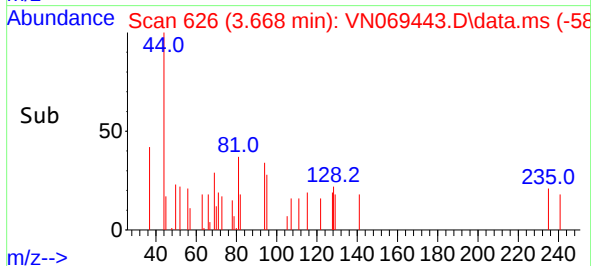
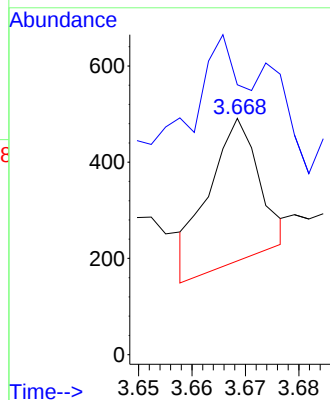
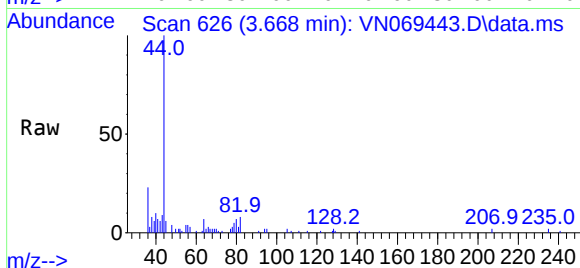
VN1110WBL01

Tgt Ion: 56 Resp: 199

Ion Ratio Lower Upper

56 100

55 68.3 57.6 86.4



#27

1,2-Dichloroethane-d4

Concen: 32.085 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VN069443.D

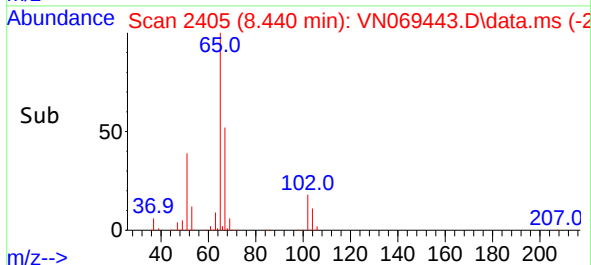
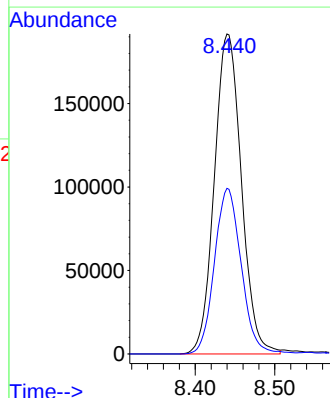
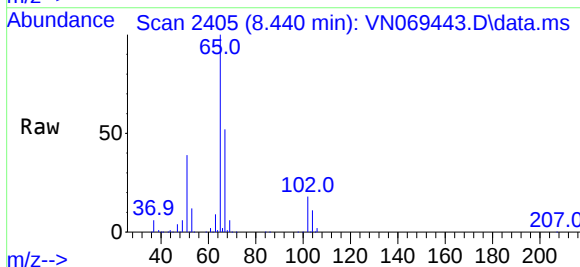
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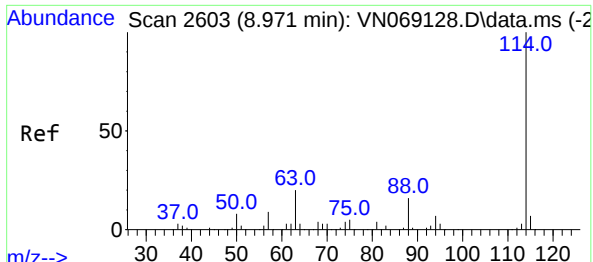
Tgt Ion: 65 Resp: 453030

Ion Ratio Lower Upper

65 100

67 50.9 40.2 60.2



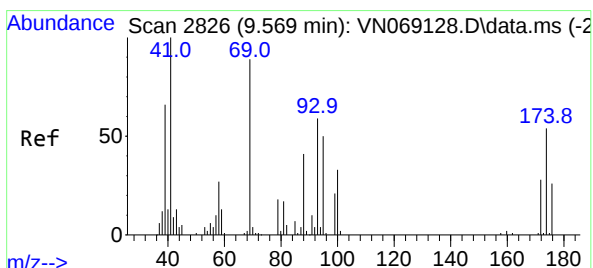
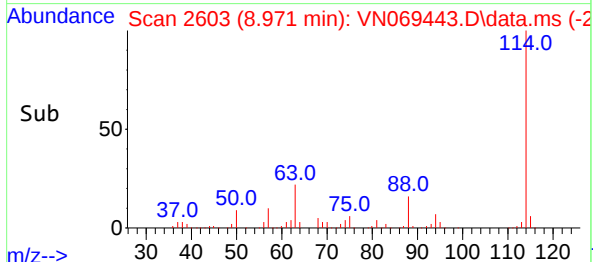
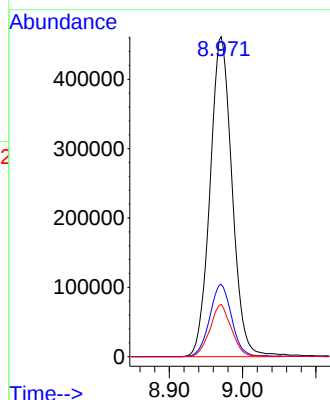
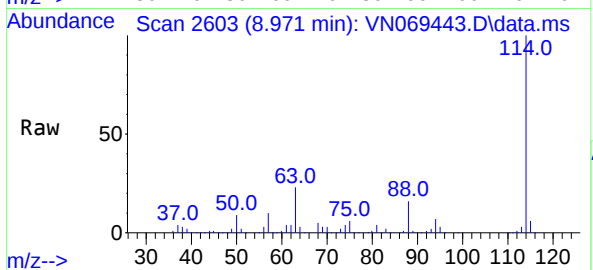


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.000 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN1110WBL01

Tgt Ion:114 Resp: 962420

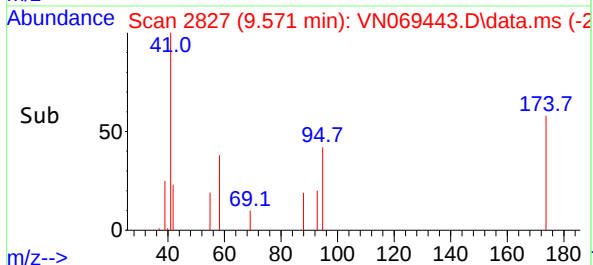
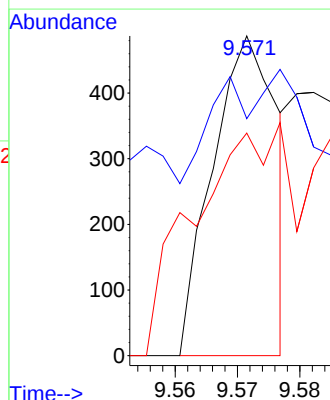
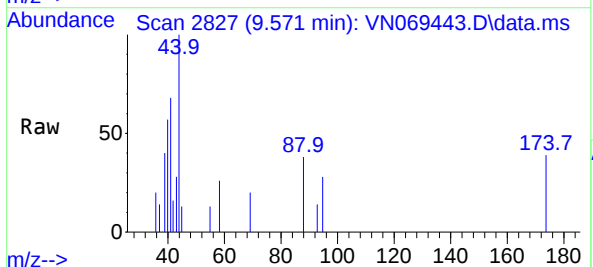
Ion	Ratio	Lower	Upper
114	100		
63	22.6	15.8	23.6
88	15.9	11.6	17.4

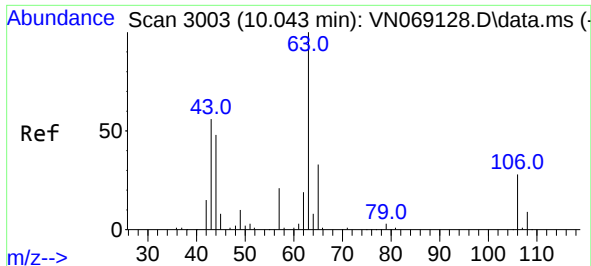


#45
1,4-Dioxane
Concen: 1.403 ug/l
RT: 9.571 min Scan# 2827
Delta R.T. 0.003 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

Tgt Ion: 88 Resp: 350

Ion	Ratio	Lower	Upper
88	100		
43	19.7	25.0	37.6#
58	54.3	49.4	74.2

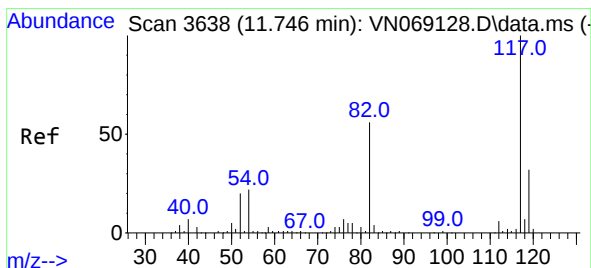
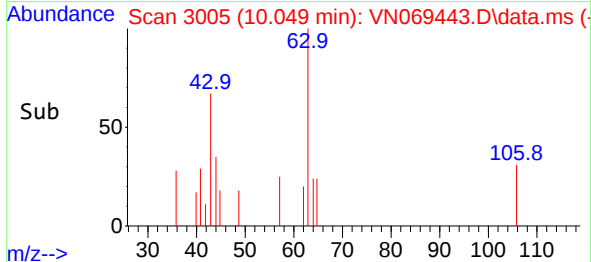
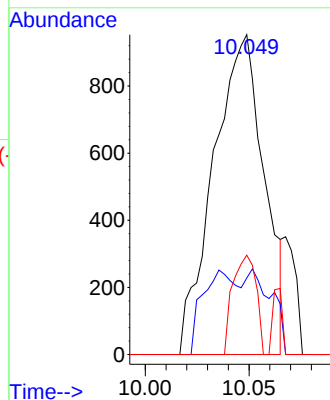
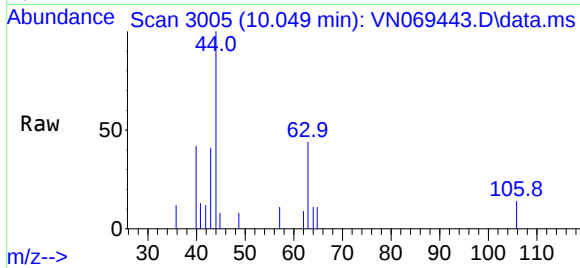




#55
2-Chloroethyl vinyl ether
Concen: 0.377 ug/l
RT: 10.049 min Scan# 3003
Delta R.T. 0.006 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

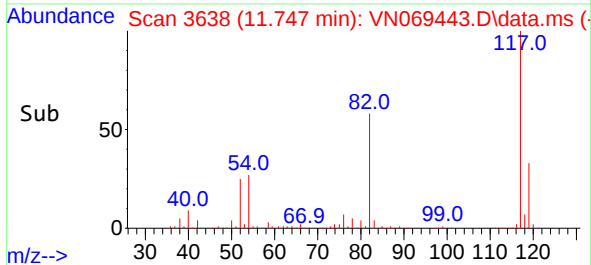
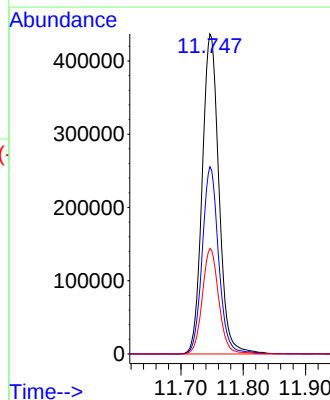
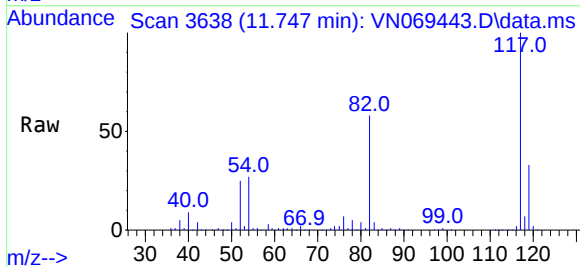
Instrument :
MSVOA_N
ClientSampleId :
VN1110WBL01

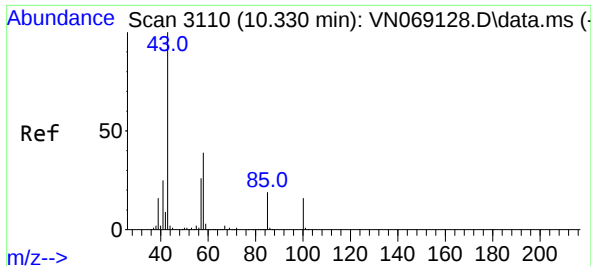
Tgt Ion: 63 Resp: 1616
Ion Ratio Lower Upper
63 100
65 3.7 25.4 38.0#
106 14.4 23.2 34.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

Tgt Ion: 117 Resp: 814145
Ion Ratio Lower Upper
117 100
82 57.1 43.6 65.4
119 32.3 25.8 38.6

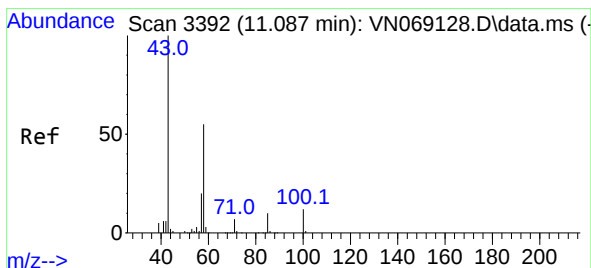
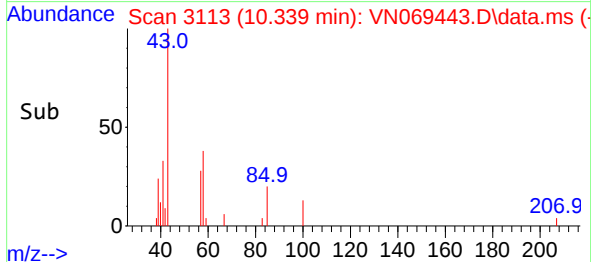
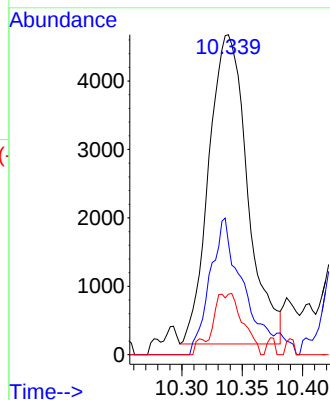
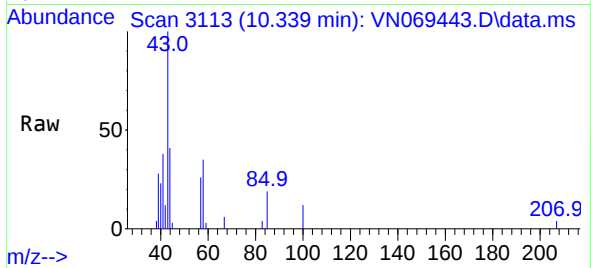




#58
4-Methyl-2-Pentanone
Concen: 0.564 ug/l
RT: 10.339 min Scan# 3110
Delta R.T. 0.008 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

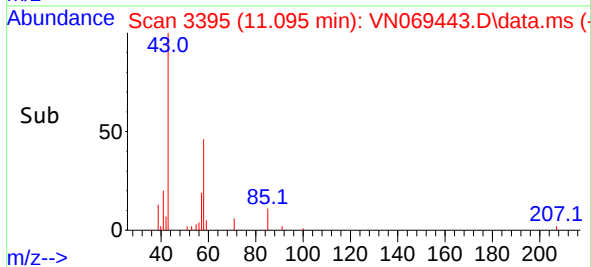
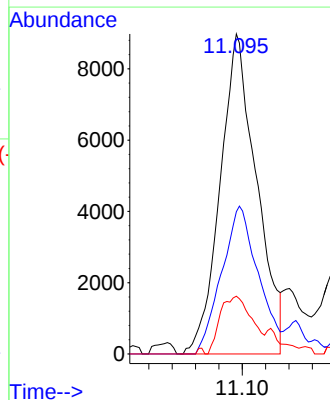
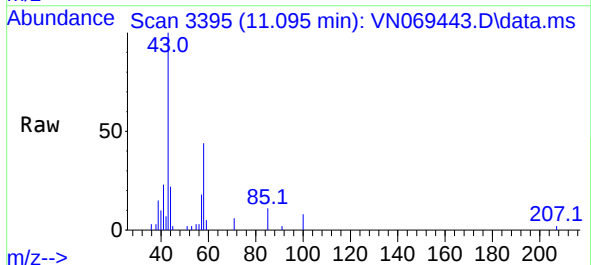
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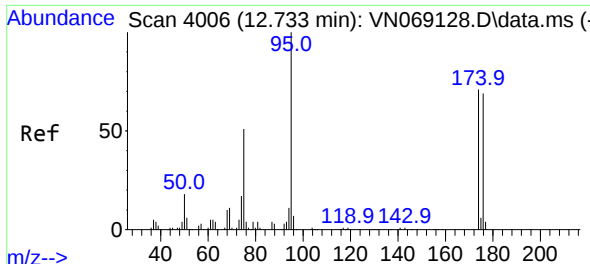
Tgt Ion:	43	Resp:	10087
Ion	Ratio	Lower	Upper
43	100		
58	37.4	30.0	45.0
85	4.3	15.0	22.6#



#59
2-Hexanone
Concen: 1.429 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

Tgt Ion:	43	Resp:	19427
Ion	Ratio	Lower	Upper
43	100		
58	46.4	42.2	63.2
57	5.8	15.0	22.4#

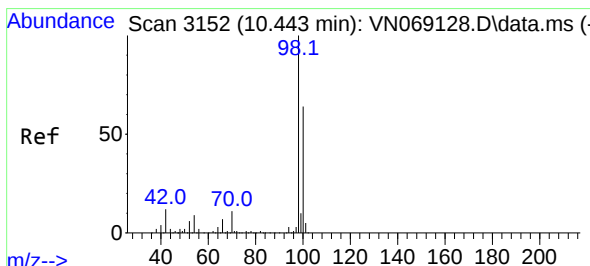
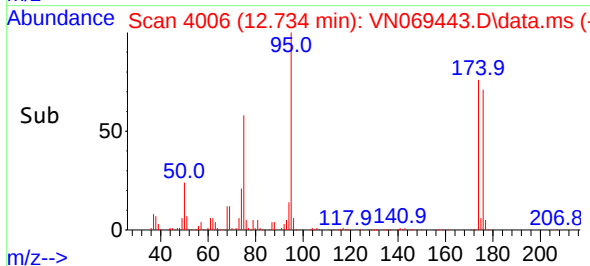
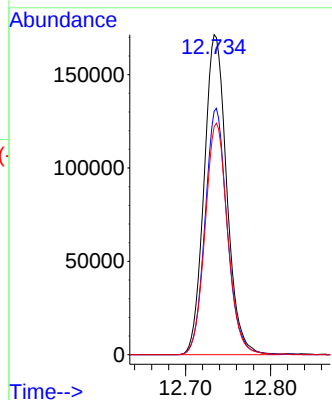
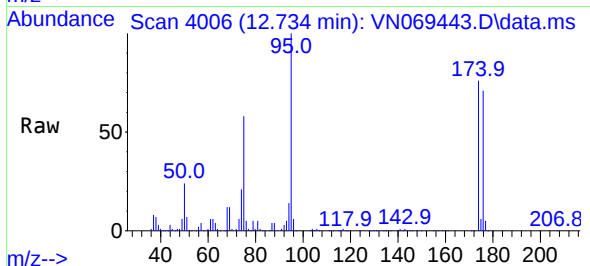




#60
4-Bromofluorobenzene
Concen: 24.311 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

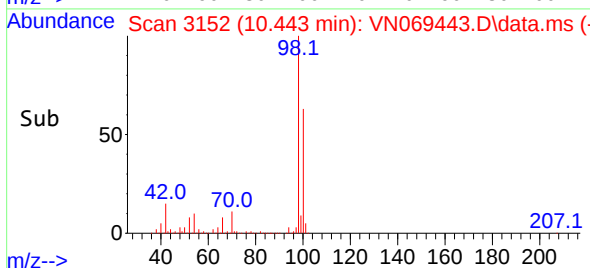
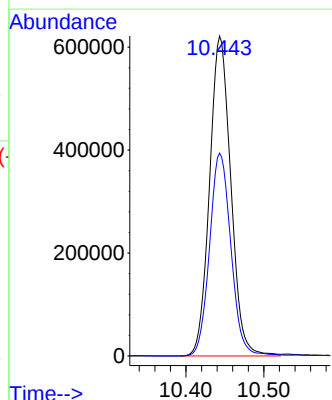
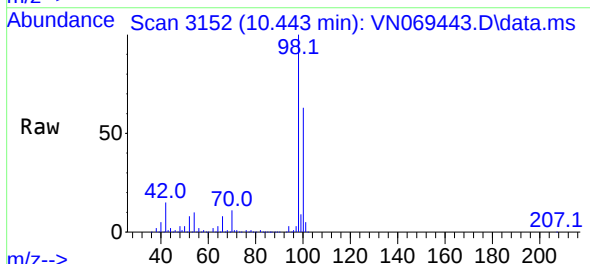
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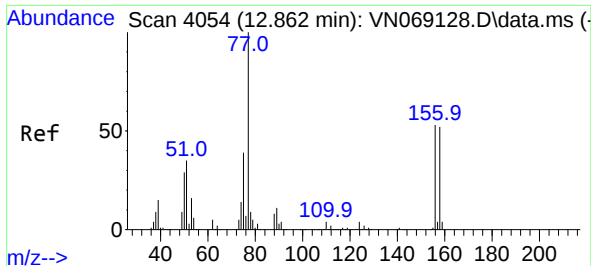
Tgt Ion: 95 Resp: 316738
Ion Ratio Lower Upper
95 100
174 75.3 62.9 94.3
176 72.3 61.0 91.4



#63
Toluene-d8
Concen: 31.359 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

Tgt Ion: 98 Resp: 1178839
Ion Ratio Lower Upper
98 100
100 63.7 50.6 76.0

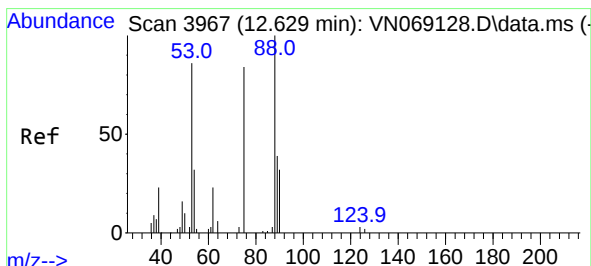
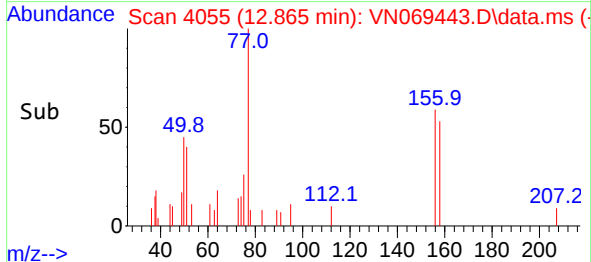
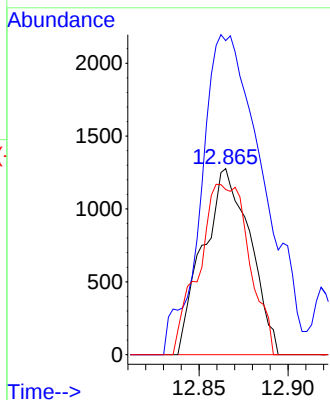
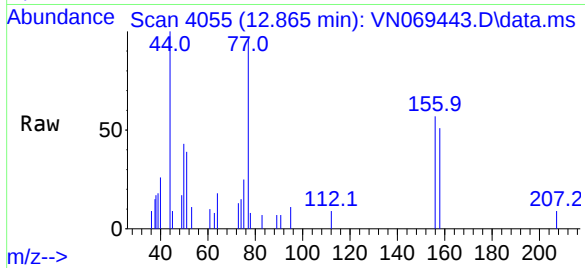




#73
Bromobenzene
Concen: 0.211 ug/l
RT: 12.865 min Scan# 4054
Delta R.T. 0.003 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

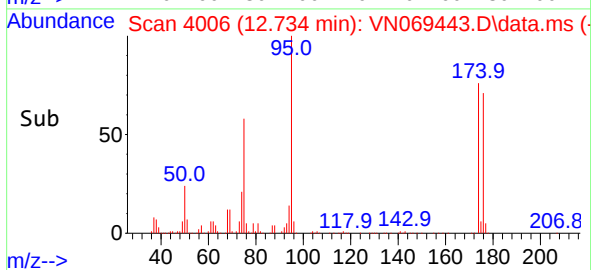
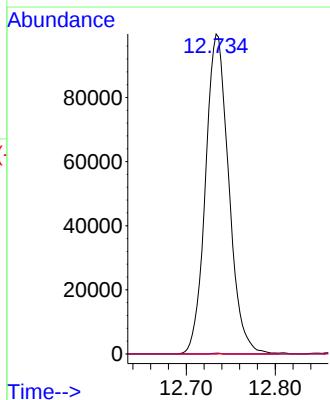
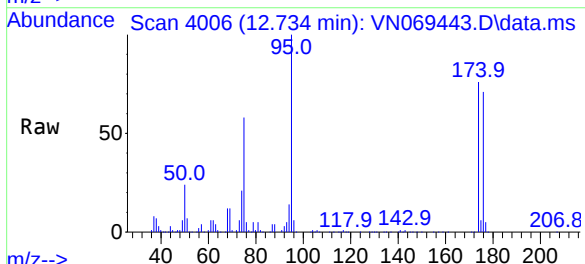
Instrument :
MSVOA_N
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VN1110WBL01

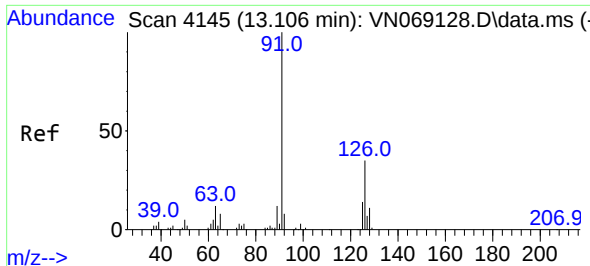
Tgt Ion:156 Resp: 2342
Ion Ratio Lower Upper
156 100
77 174.3 0.0 416.0
158 25.9 0.0 195.4



#77
t-1,4-Dichloro-2-butene
Concen: 43.381 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

Tgt Ion: 75 Resp: 181291
Ion Ratio Lower Upper
75 100
53 0.2 51.8 155.5#
89 0.0 22.9 68.7#

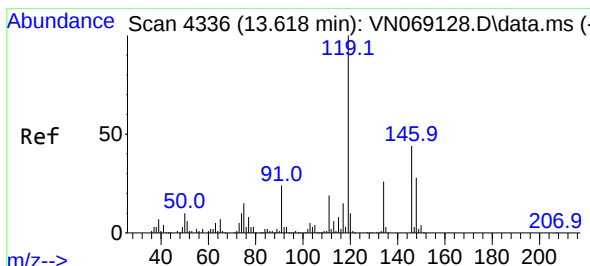
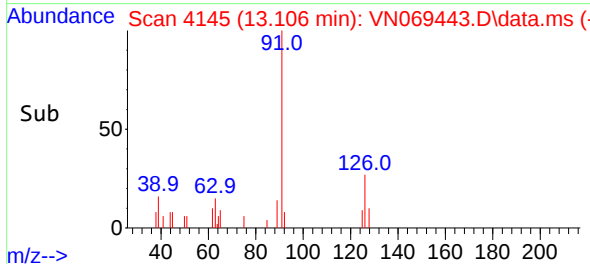
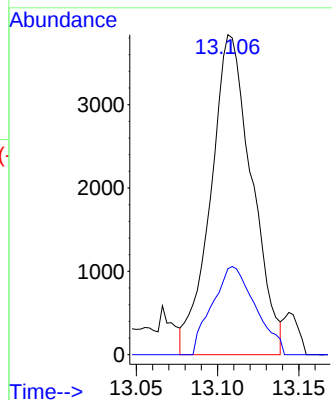
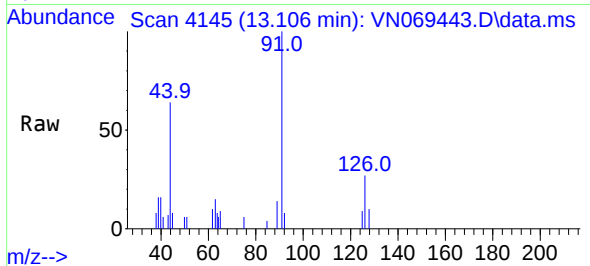




#78
4-Chlorotoluene
Concen: 0.209 ug/l
RT: 13.106 min Scan# 4145
Delta R.T. 0.000 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

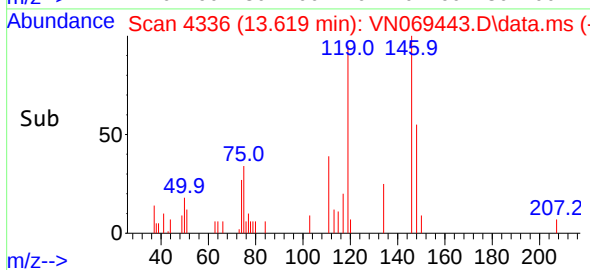
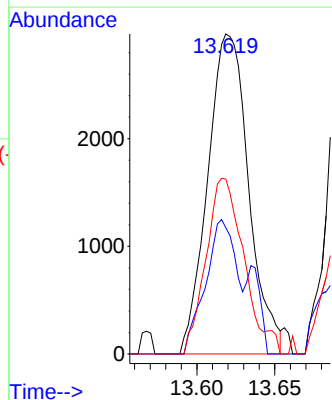
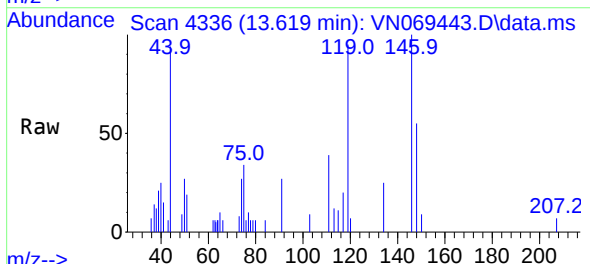
Instrument :
MSVOA_N
ClientSampleId :
VN1110WBL01

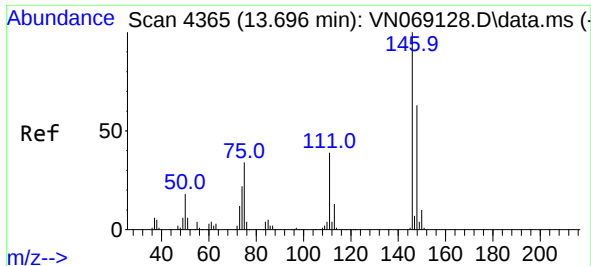
Tgt Ion: 91 Resp: 6747
Ion Ratio Lower Upper
91 100
126 28.9 0.0 70.6



#83
1,3-Dichlorobenzene
Concen: 0.286 ug/l
RT: 13.619 min Scan# 4336
Delta R.T. 0.000 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

Tgt Ion: 146 Resp: 5436
Ion Ratio Lower Upper
146 100
111 31.8 20.8 62.2
148 49.1 31.4 94.3

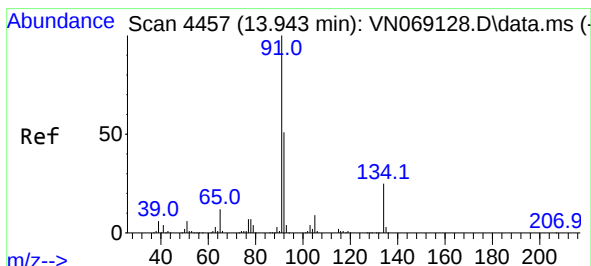
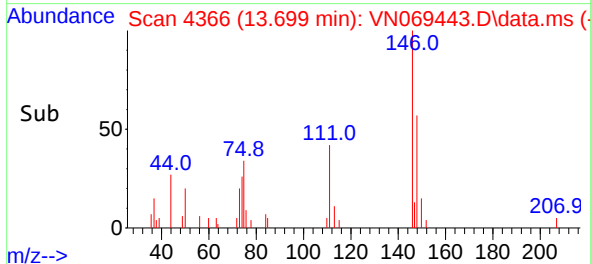
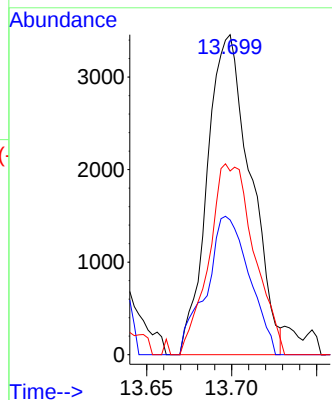
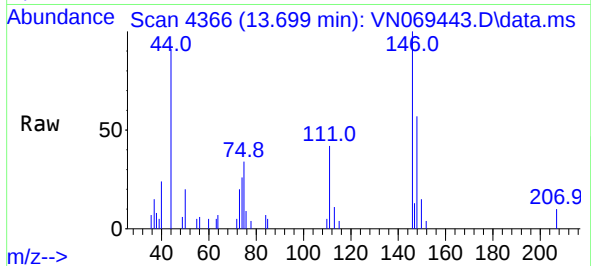




#84
1,4-Dichlorobenzene
Concen: 0.333 ug/l
RT: 13.699 min Scan# 41
Delta R.T. 0.003 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

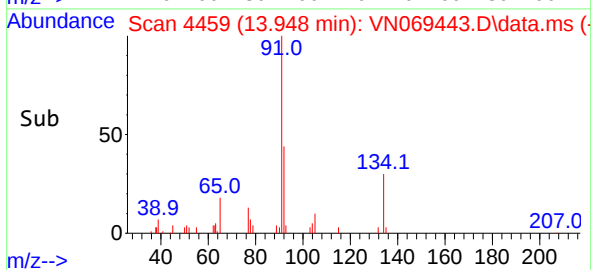
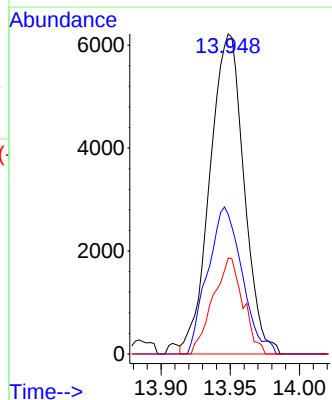
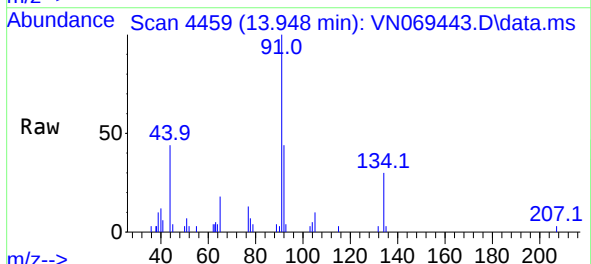
Instrument :
MSVOA_N
ClientSampleId :
VN1110WBL01

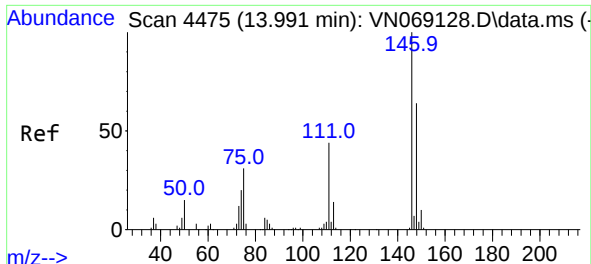
Tgt Ion:146 Resp: 6140
Ion Ratio Lower Upper
146 100
111 42.8 19.5 58.5
148 31.3 31.1 93.5



#85
n-Butylbenzene
Concen: 0.328 ug/l
RT: 13.948 min Scan# 4459
Delta R.T. 0.006 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

Tgt Ion: 91 Resp: 10626
Ion Ratio Lower Upper
91 100
92 45.4 0.0 100.6
134 26.2 0.0 50.2





#87

1,2-Dichlorobenzene

Concen: 0.319 ug/l

RT: 13.994 min Scan# 44

Delta R.T. 0.003 min

Lab File: VN069443.D

Acq: 10 Nov 2021 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN1110WBL01

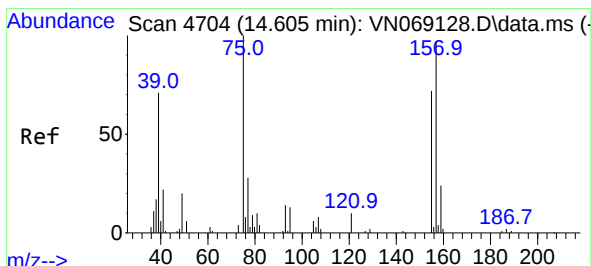
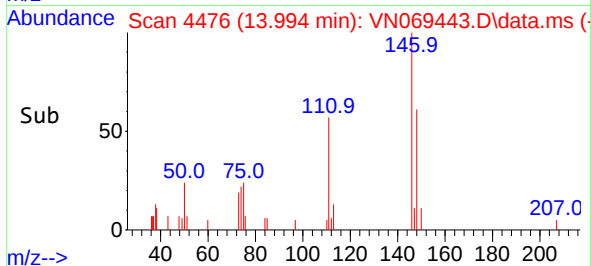
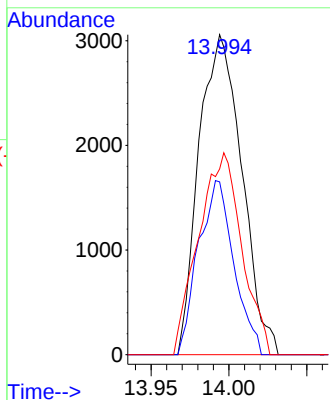
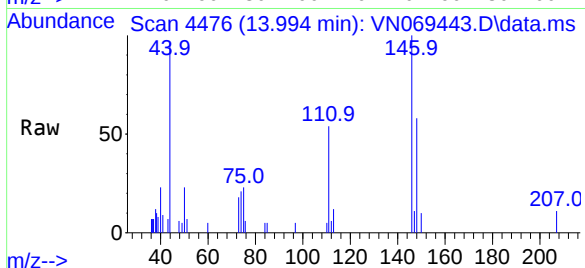
Tgt Ion:146 Resp: 5853

Ion Ratio Lower Upper

146 100

111 44.9 21.4 64.2

148 63.5 32.5 97.4



#88

1,2-Dibromo-3-Chloropropane

Concen: 0.210 ug/l

RT: 14.597 min Scan# 4701

Delta R.T. -0.008 min

Lab File: VN069443.D

Acq: 10 Nov 2021 15:41

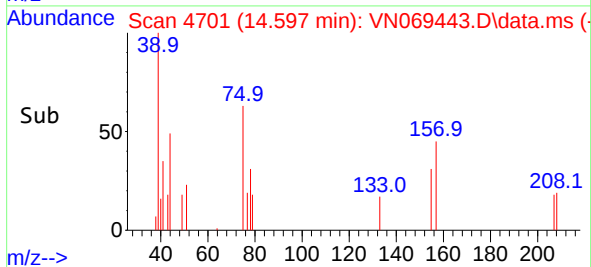
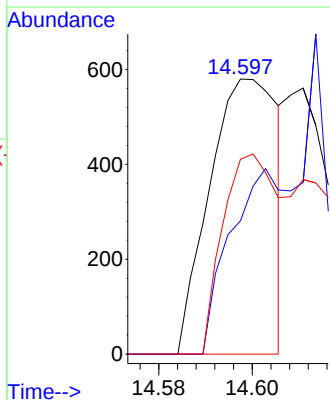
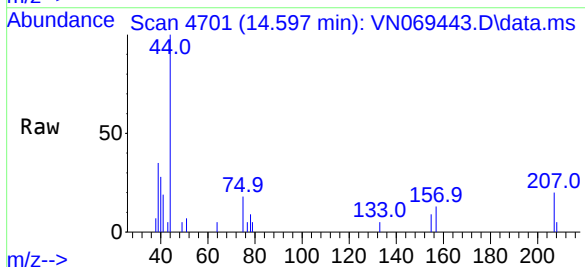
Tgt Ion: 75 Resp: 584

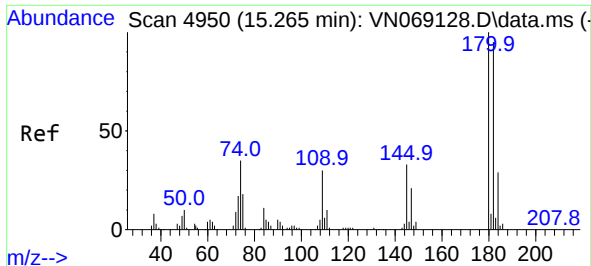
Ion Ratio Lower Upper

75 100

155 58.9 63.8 95.8#

157 57.0 77.9 116.9#

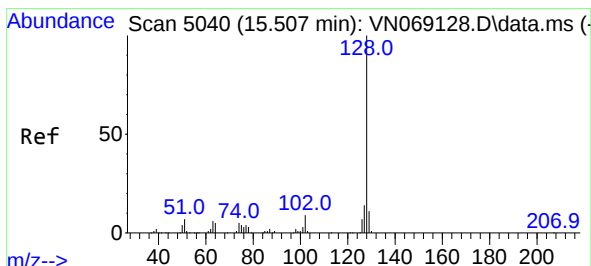
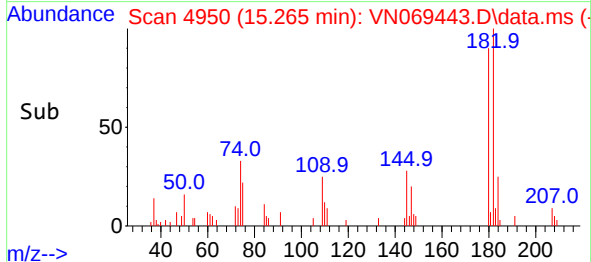
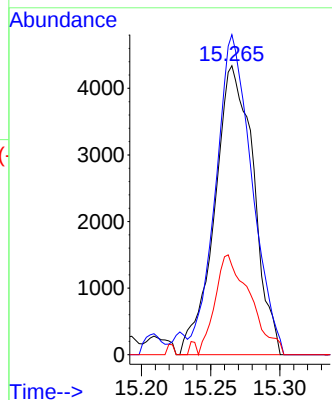
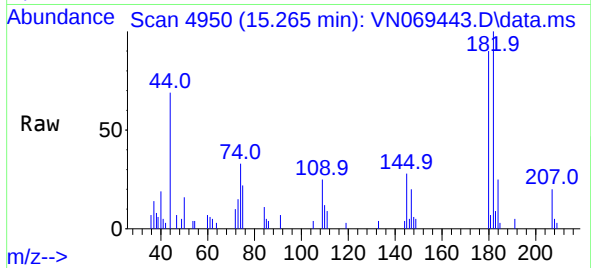




#89
1,2,4-Trichlorobenzene
Concen: 0.963 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

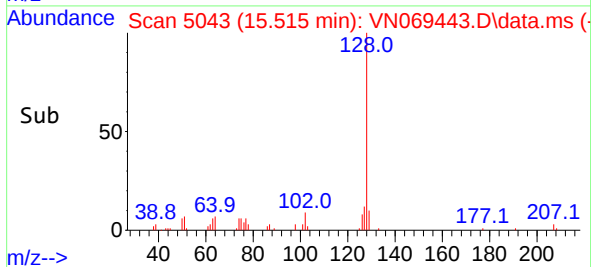
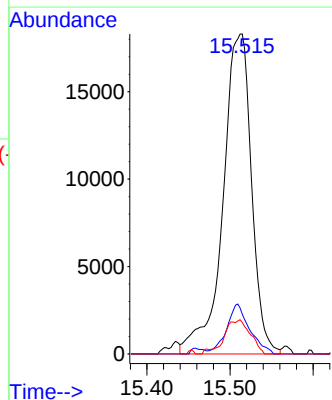
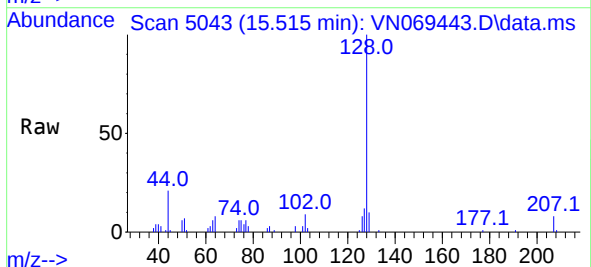
Instrument :
MSVOA_N
ClientSampleId :
VN1110WBL01

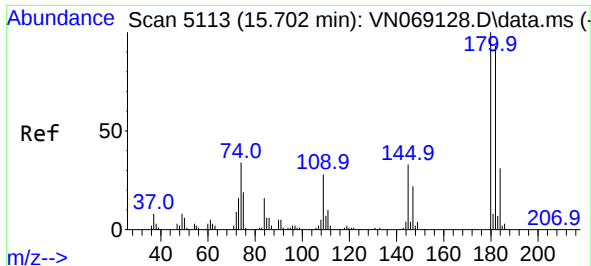
Tgt Ion:180 Resp: 8459
Ion Ratio Lower Upper
180 100
182 103.4 77.7 116.5
145 31.3 26.6 39.8



#91
Naphthalene
Concen: 1.728 ug/l
RT: 15.515 min Scan# 5043
Delta R.T. 0.008 min
Lab File: VN069443.D
Acq: 10 Nov 2021 15:41

Tgt Ion:128 Resp: 43737
Ion Ratio Lower Upper
128 100
127 12.6 10.7 16.1
129 3.2 9.0 13.6#





#92

1,2,3-Trichlorobenzene

Concen: 1.324 ug/l

RT: 15.705 min Scan# 51

Delta R.T. 0.003 min

Lab File: VN069443.D

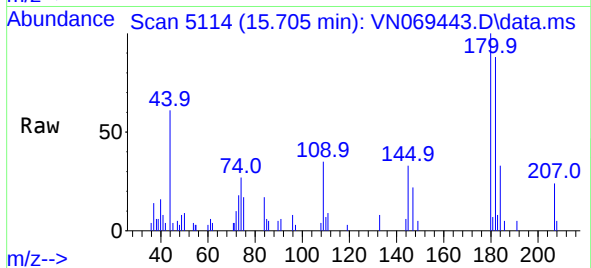
Acq: 10 Nov 2021 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN1110WBL01



Tgt Ion:180 Resp: 11432

Ion Ratio Lower Upper

180 100

182 88.9 0.0 190.0

145 32.9 0.0 67.8

