

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112621\
 Data File : VN069653.D
 Acq On : 26 Nov 2021 12:37
 Operator : JC/MD
 Sample : M4838-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 29 00:17:00 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)

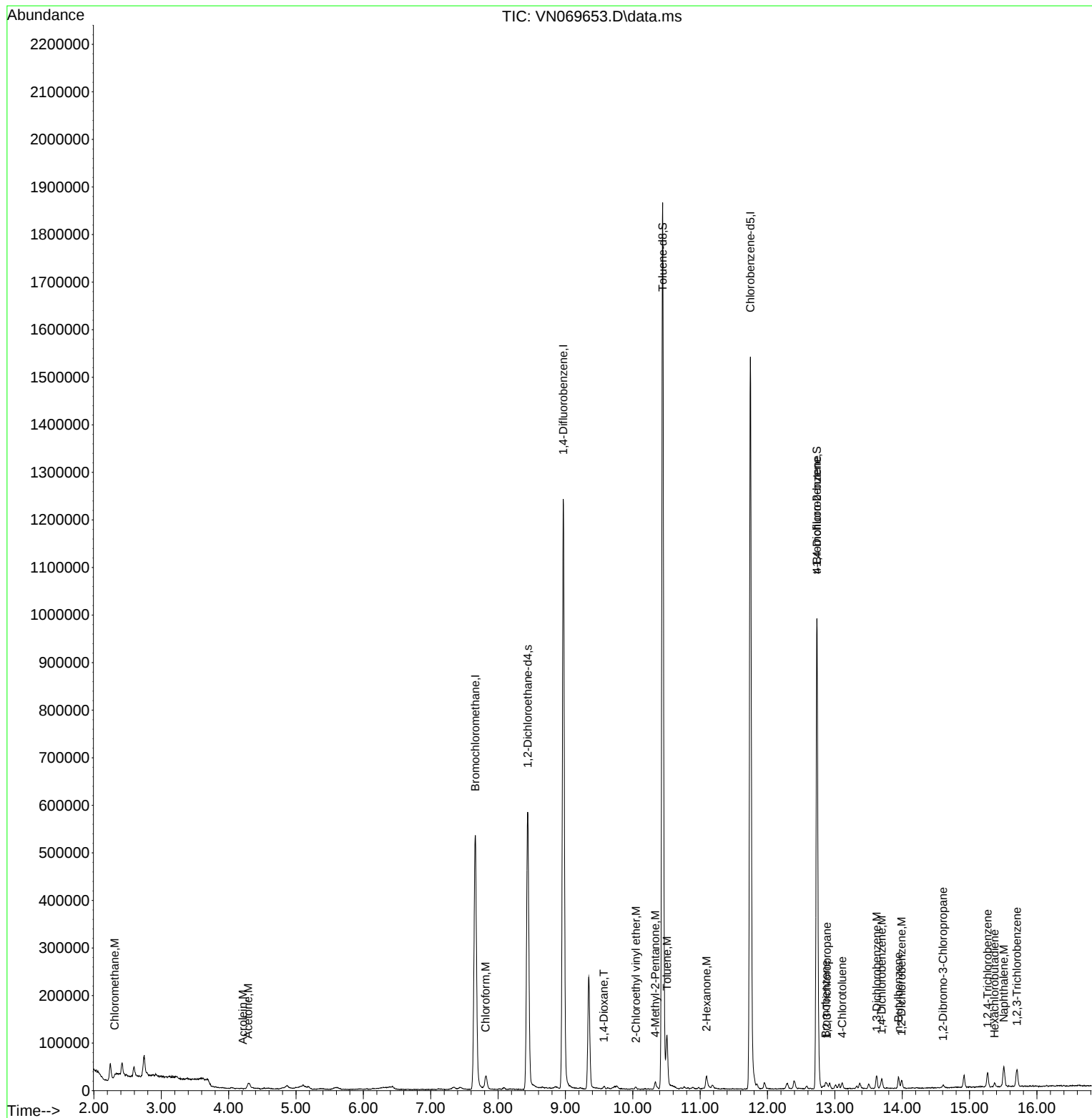
Internal Standards						
1) Bromochloromethane	7.662	128	186745	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1047203	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	894462	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	511850	31.604	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.333%
60) 4-Bromofluorobenzene	12.734	95	348922	24.376	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.267%
63) Toluene-d8	10.443	98	1267624	30.693	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.300%
Target Compounds						
					Qvalue	
3) Chloromethane	2.309	50	3340	0.232	ug/l	92
13) Acrolein	4.210	56	199	0.269	ug/l	91
15) Acetone	4.291	58	515	0.211	ug/l #	1
25) Chloroform	7.815	83	26021	1.167	ug/l	90
45) 1,4-Dioxane	9.572	88	281	1.035	ug/l #	93
55) 2-Chloroethyl vinyl ether	10.046	63	1881	0.403	ug/l #	58
58) 4-Methyl-2-Pentanone	10.333	43	13434	0.684	ug/l #	73
59) 2-Hexanone	11.095	43	21950	1.470	ug/l #	91
62) Toluene	10.508	91	72116	1.467	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	4152	0.244	ug/l	21
73) Bromobenzene	12.865	156	2492	0.204	ug/l	56
77) t-1,4-Dichloro-2-butene	12.734	75	200027	43.566	ug/l #	8
78) 4-Chlorotoluene	13.109	91	7451	0.210	ug/l	86
83) 1,3-Dichlorobenzene	13.621	146	6092	0.292	ug/l	97
84) 1,4-Dichlorobenzene	13.696	146	7339	0.363	ug/l	97
85) n-Butylbenzene	13.943	91	13421	0.377	ug/l	95
87) 1,2-Dichlorobenzene	13.991	146	6712	0.333	ug/l	92
88) 1,2-Dibromo-3-Chloropr...	14.606	75	1072	0.351	ug/l #	78
89) 1,2,4-Trichlorobenzene	15.268	180	9140	0.947	ug/l	99
90) Hexachlorobutadiene	15.370	225	1313	0.252	ug/l	66
91) Naphthalene	15.507	128	39233	1.411	ug/l #	90
92) 1,2,3-Trichlorobenzene	15.703	180	12509	1.319	ug/l	61

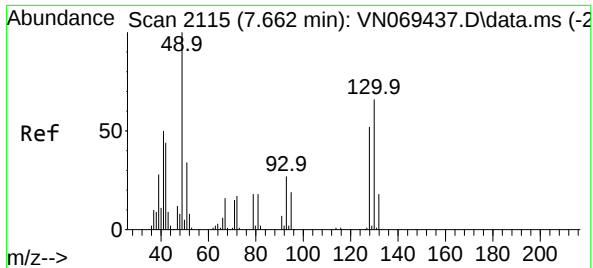
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Nov 10 14:36:17 2021
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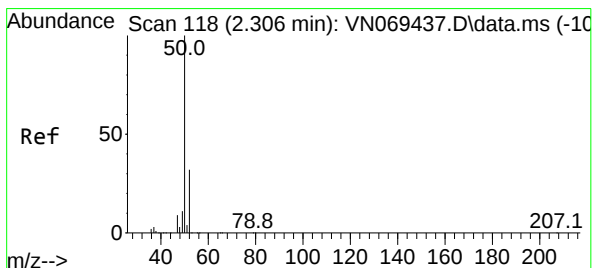
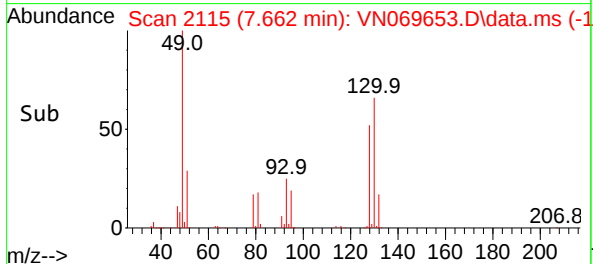
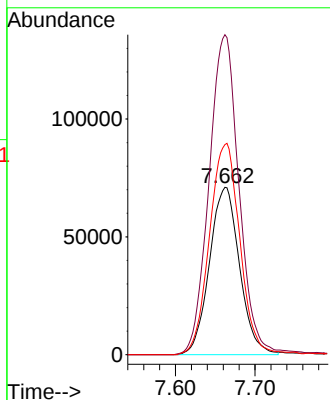
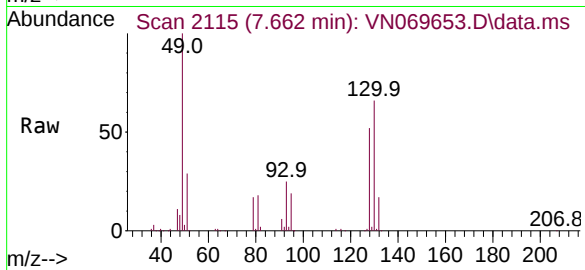




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

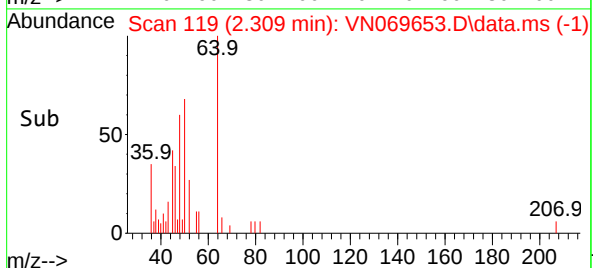
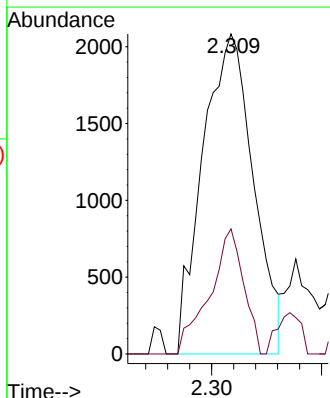
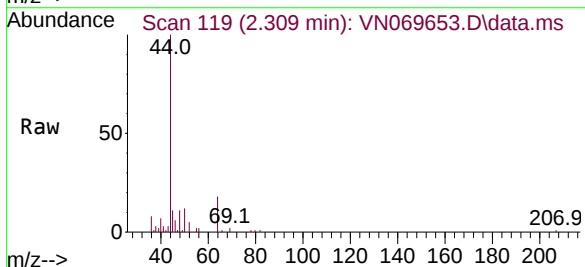
Instrument :
MSVOA_N
ClientSampleId :

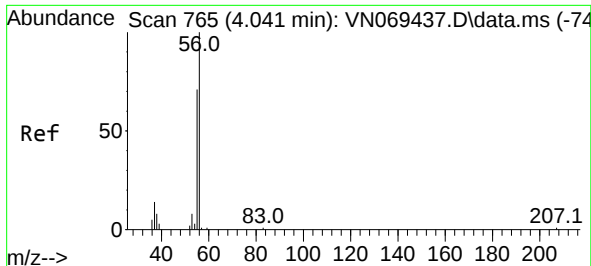
Tgt Ion:128 Resp: 186745
Ion Ratio Lower Upper
128 100
49 189.4 0.0 392.3
130 127.8 0.0 320.2



#3
Chloromethane
Concen: 0.232 ug/l
RT: 2.309 min Scan# 119
Delta R.T. 0.006 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

Tgt Ion: 50 Resp: 3340
Ion Ratio Lower Upper
50 100
52 39.1 27.8 41.6

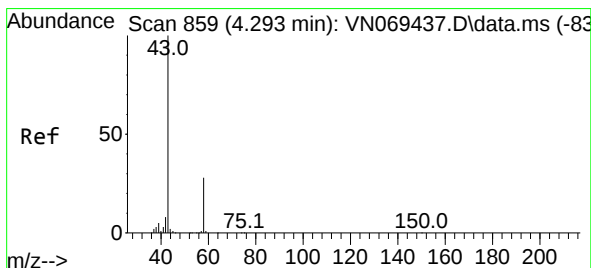
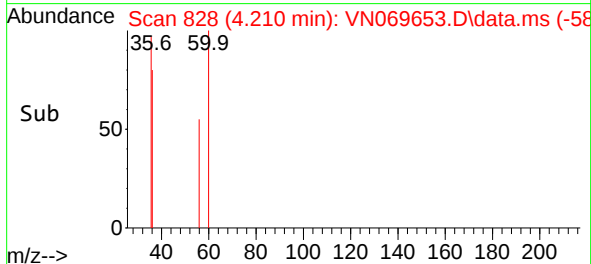
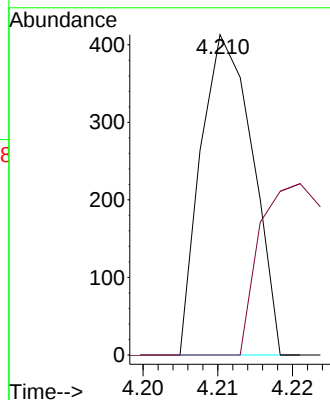
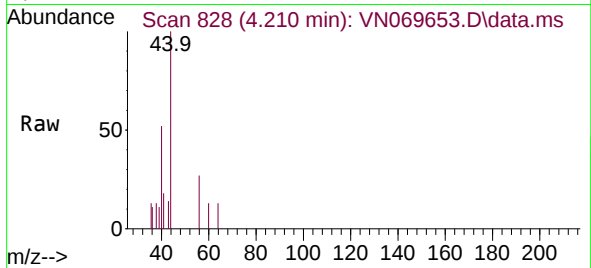




#13
Acrolein
Concen: 0.269 ug/l
RT: 4.210 min Scan# 81
Delta R.T. 0.164 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

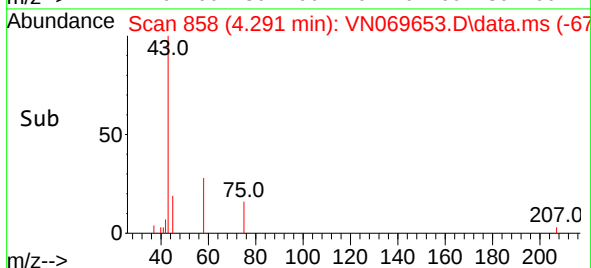
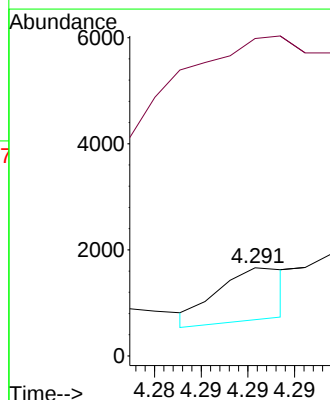
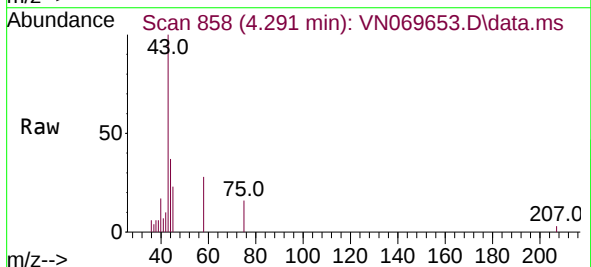
Instrument :
MSVOA_N
ClientSampleId :

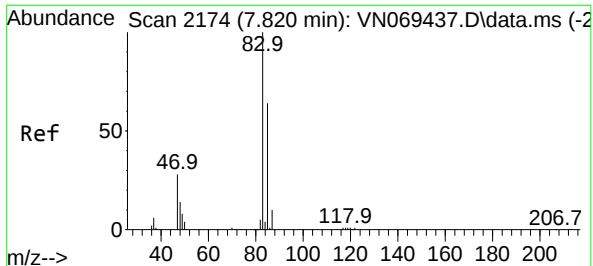
Tgt Ion: 56 Resp: 199
Ion Ratio Lower Upper
56 100
55 64.3 57.6 86.4



#15
Acetone
Concen: 0.211 ug/l
RT: 4.291 min Scan# 858
Delta R.T. 0.003 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

Tgt Ion: 58 Resp: 515
Ion Ratio Lower Upper
58 100
43 70.1 256.6 384.8#

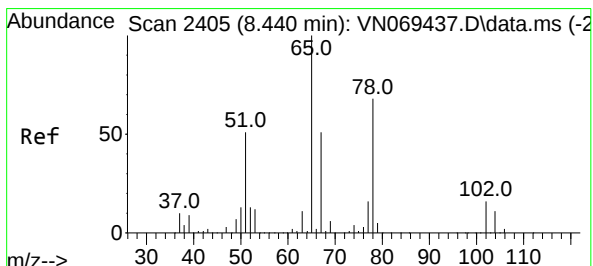
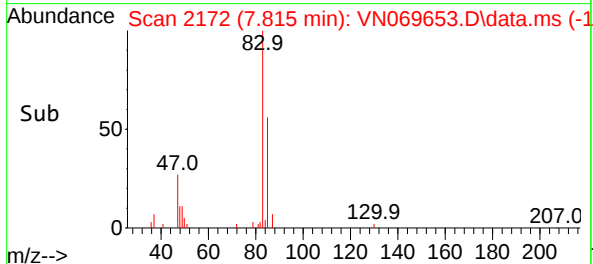
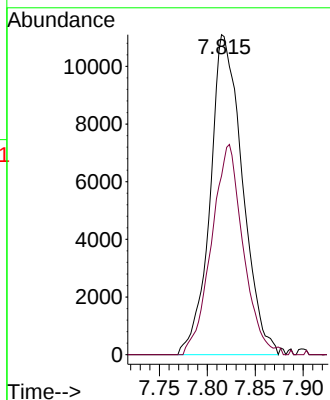
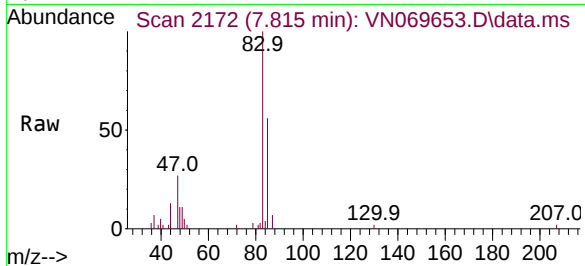




#25
Chloroform
Concen: 1.167 ug/l
RT: 7.815 min Scan# 2172
Delta R.T. -0.005 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

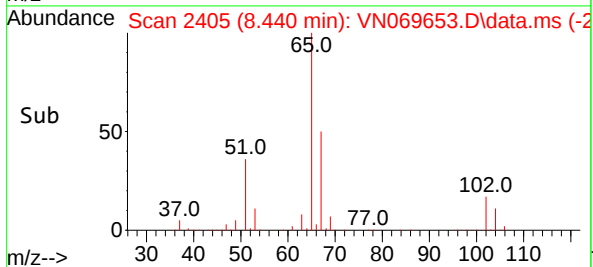
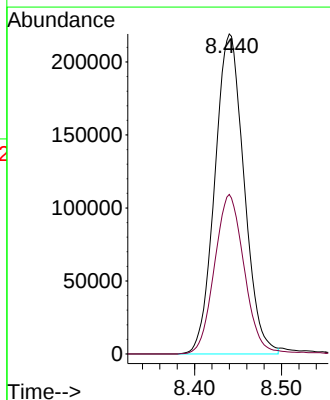
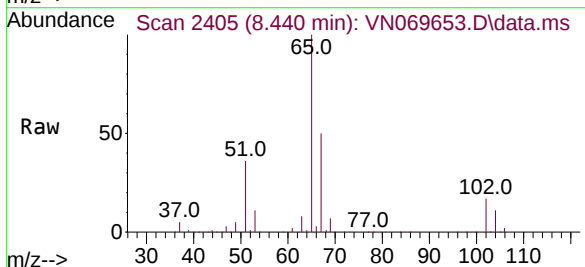
Instrument :
MSVOA_N
ClientSampleId :

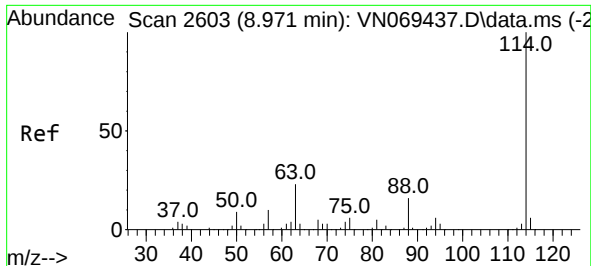
Tgt Ion: 83 Resp: 26021
Ion Ratio Lower Upper
83 100
85 55.9 51.3 76.9



#27
1,2-Dichloroethane-d4
Concen: 31.604 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.000 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

Tgt Ion: 65 Resp: 511850
Ion Ratio Lower Upper
65 100
67 50.7 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.968 min Scan# 2

Delta R.T. -0.002 min

Lab File: VN069653.D

Acq: 26 Nov 2021 12:37

Instrument :

MSVOA_N

ClientSampleId :

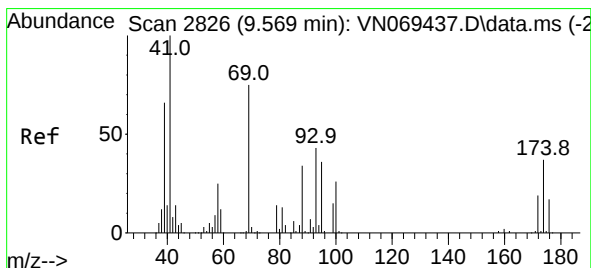
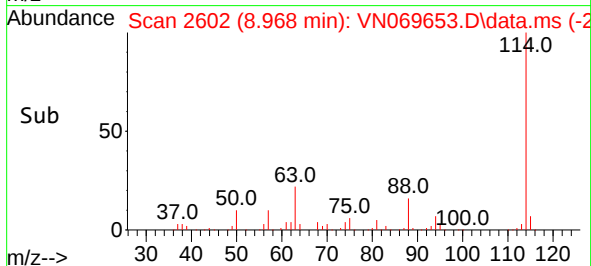
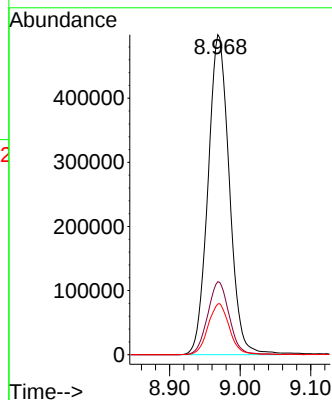
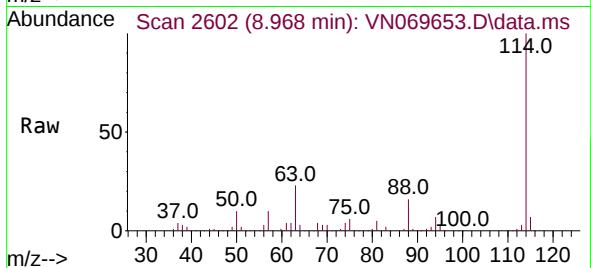
Tgt Ion:114 Resp: 1047203

Ion Ratio Lower Upper

114 100

63 23.1 15.8 23.6

88 15.8 11.6 17.4



#45

1,4-Dioxane

Concen: 1.035 ug/l

RT: 9.572 min Scan# 2827

Delta R.T. 0.003 min

Lab File: VN069653.D

Acq: 26 Nov 2021 12:37

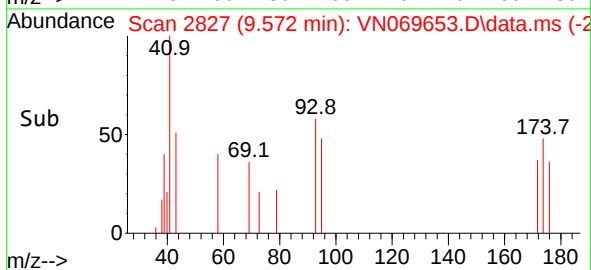
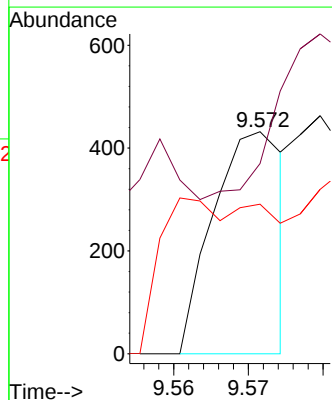
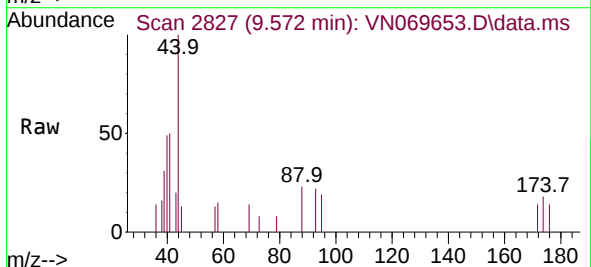
Tgt Ion: 88 Resp: 281

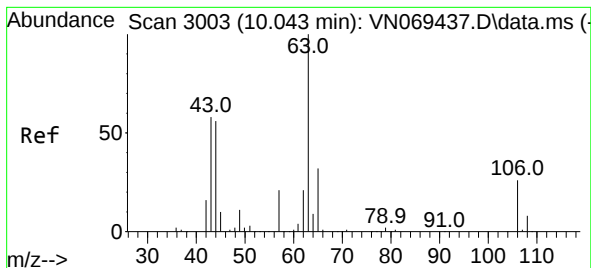
Ion Ratio Lower Upper

88 100

43 19.9 25.0 37.6#

58 62.3 49.4 74.2

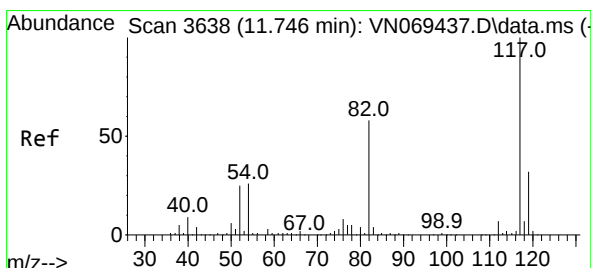
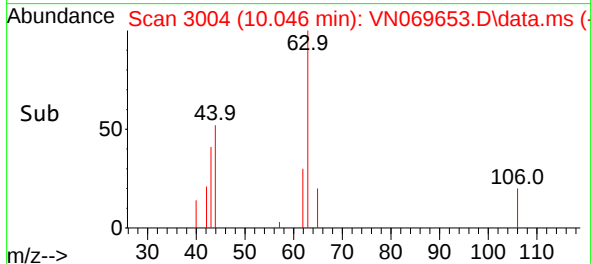
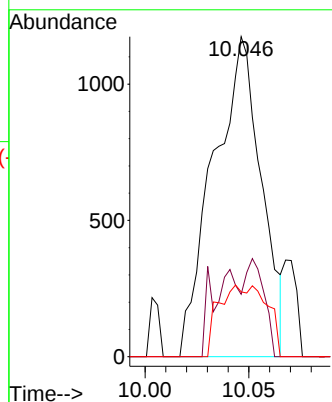
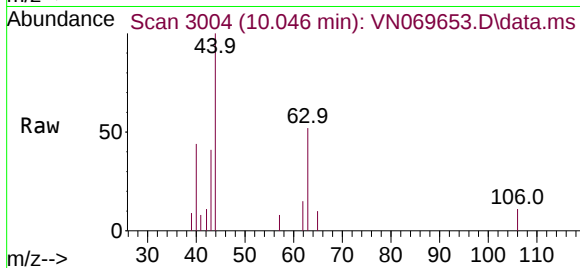




#55
2-Chloroethyl vinyl ether
Concen: 0.403 ug/l
RT: 10.046 min Scan# 3003
Delta R.T. 0.003 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

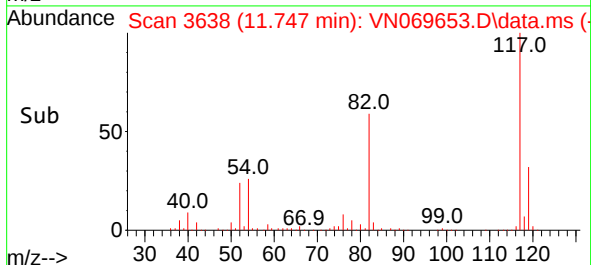
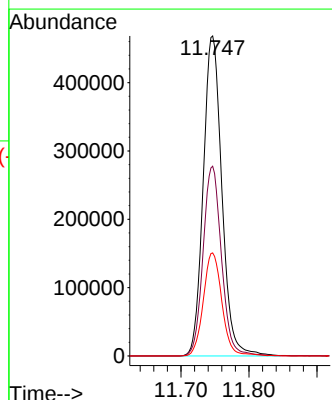
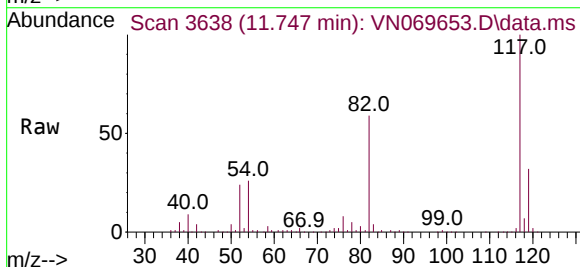
Instrument :
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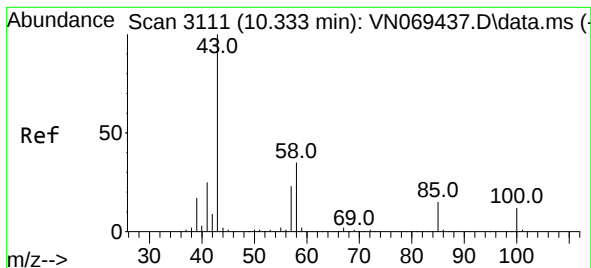
Tgt Ion: 63 Resp: 1881
Ion Ratio Lower Upper
63 100
65 11.2 25.4 38.0#
106 3.3 23.2 34.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

Tgt Ion: 117 Resp: 894462
Ion Ratio Lower Upper
117 100
82 58.6 43.6 65.4
119 32.1 25.8 38.6

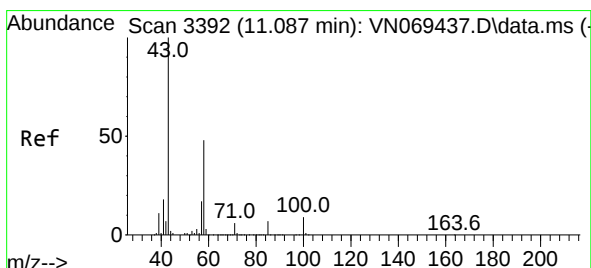
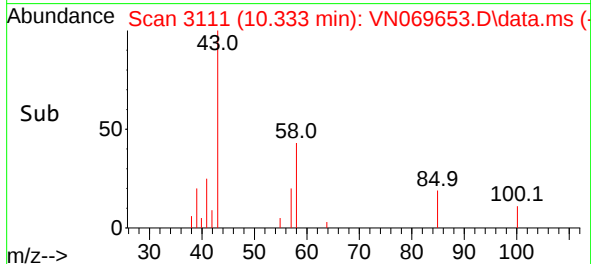
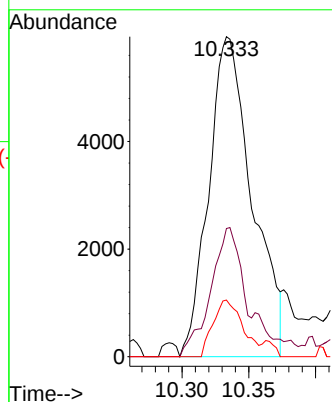
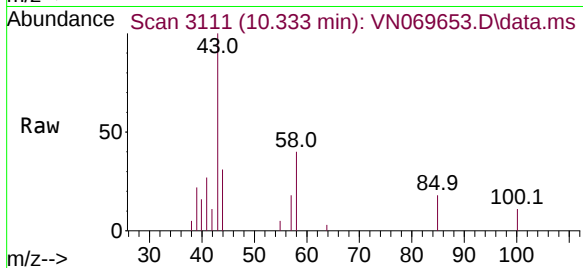




#58
4-Methyl-2-Pentanone
Concen: 0.684 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

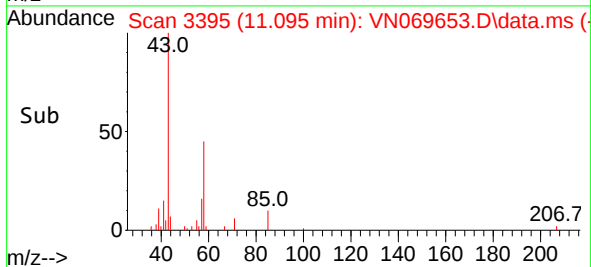
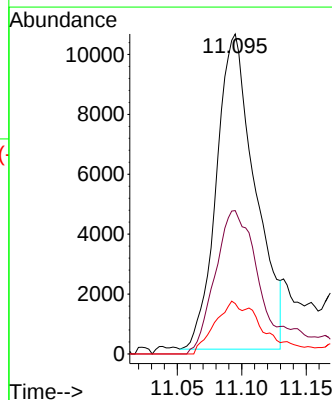
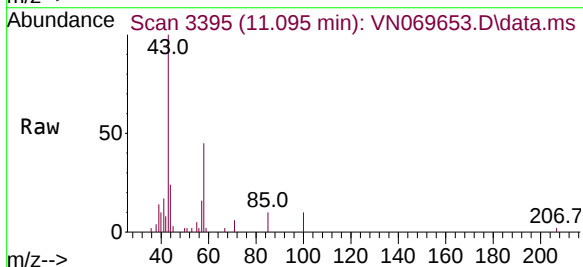
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ClientSampleId :

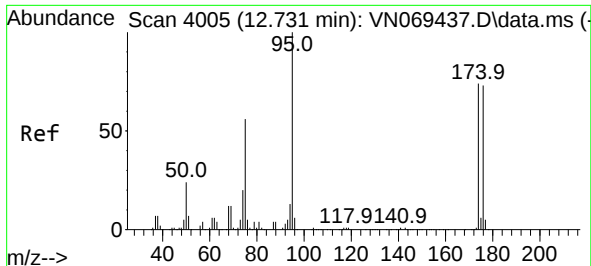
Tgt Ion: 43 Resp: 13434
Ion Ratio Lower Upper
43 100
58 17.8 30.0 45.0#
85 12.0 15.0 22.6#



#59
2-Hexanone
Concen: 1.470 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

Tgt Ion: 43 Resp: 21950
Ion Ratio Lower Upper
43 100
58 48.5 42.2 63.2
57 11.4 15.0 22.4#

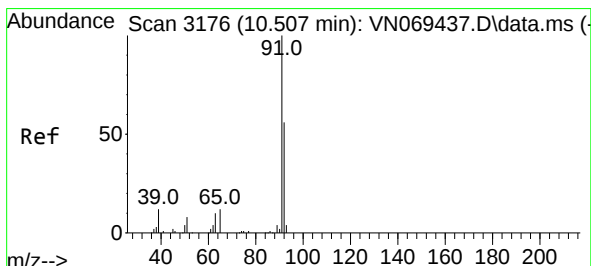
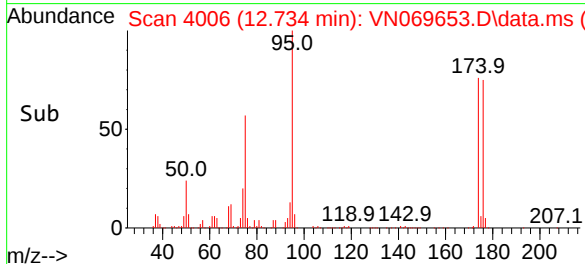
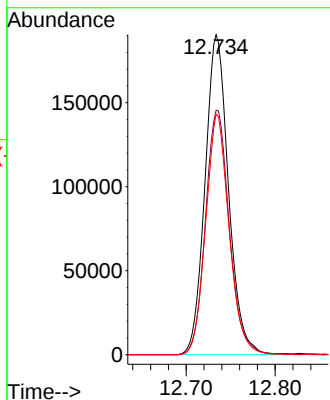
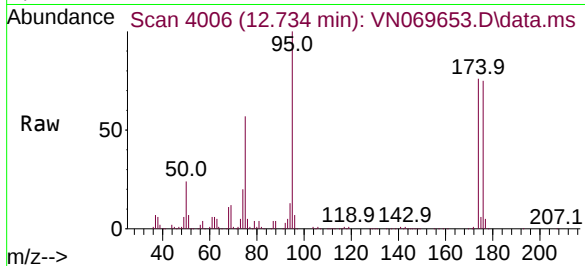




#60
4-Bromofluorobenzene
Concen: 24.376 ug/l
RT: 12.734 min Scan# 4005
Delta R.T. 0.000 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

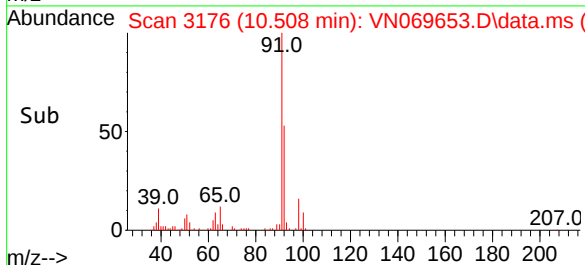
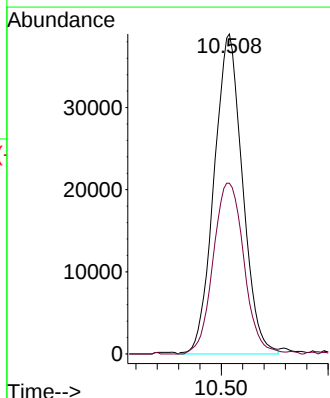
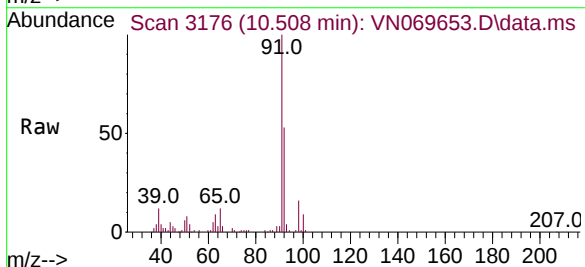
Instrument :
MSVOA_N
ClientSampleId :

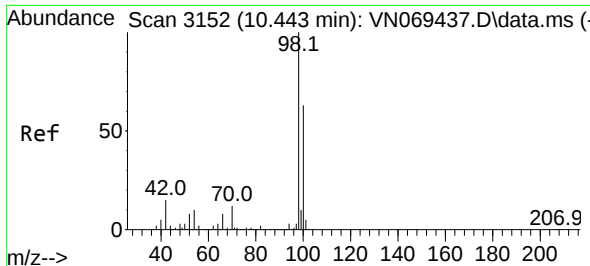
Tgt Ion: 95 Resp: 348922
Ion Ratio Lower Upper
95 100
174 77.7 62.9 94.3
176 74.9 61.0 91.4



#62
Toluene
Concen: 1.467 ug/l
RT: 10.508 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

Tgt Ion: 91 Resp: 72116
Ion Ratio Lower Upper
91 100
92 57.6 44.6 67.0

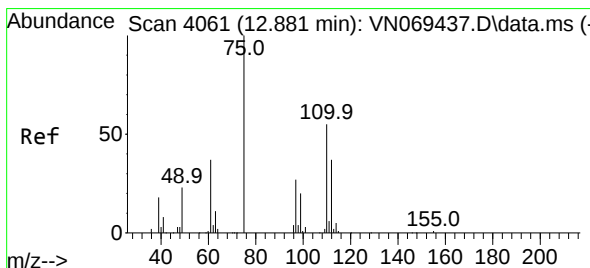
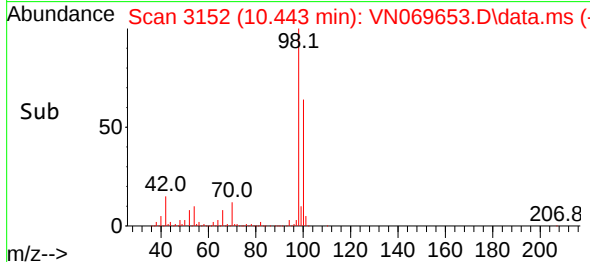
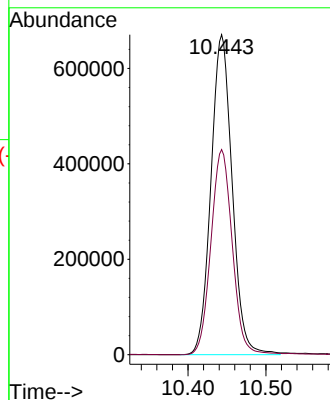
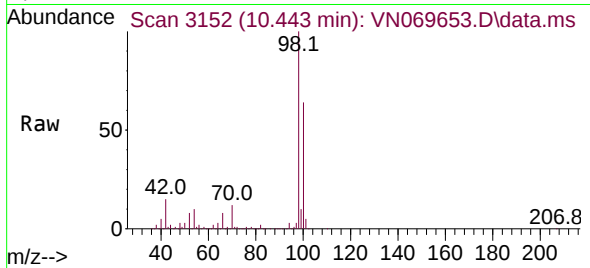




#63
Toluene-d8
Concen: 30.693 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

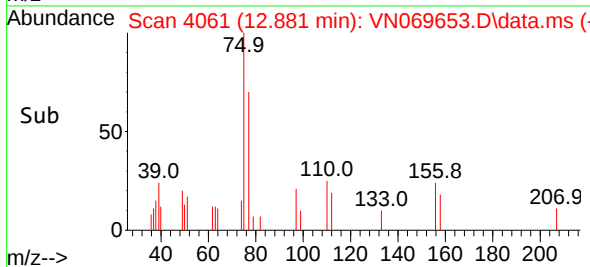
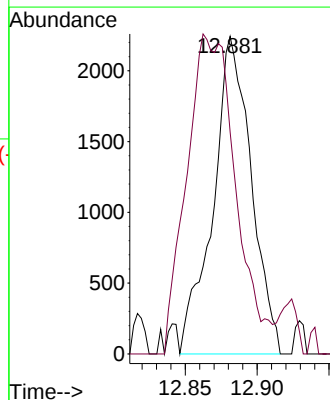
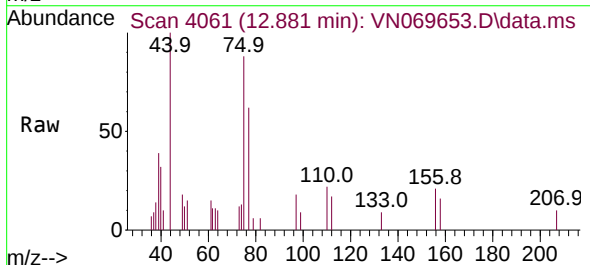
Instrument :
MSVOA_N
ClientSampleId :

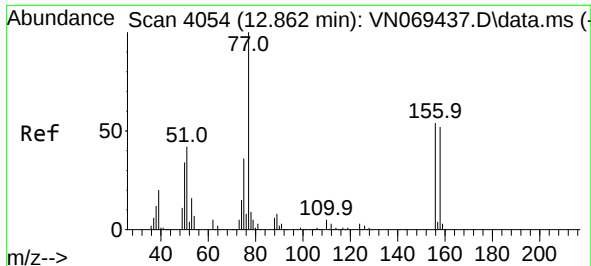
Tgt Ion: 98 Resp: 1267624
Ion Ratio Lower Upper
98 100
100 64.4 50.6 76.0



#72
1,2,3-Trichloropropane
Concen: 0.244 ug/l
RT: 12.881 min Scan# 4061
Delta R.T. 0.000 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

Tgt Ion: 75 Resp: 4152
Ion Ratio Lower Upper
75 100
77 74.1 0.0 378.0

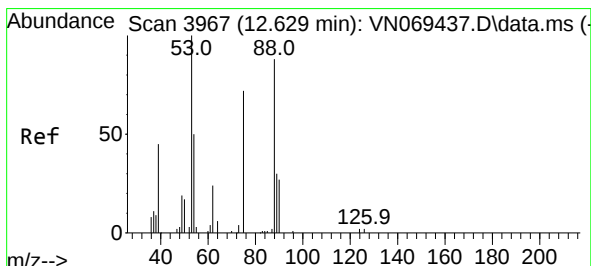
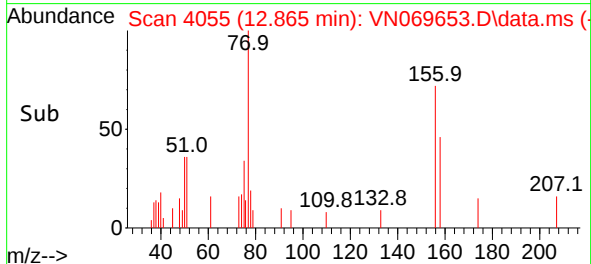
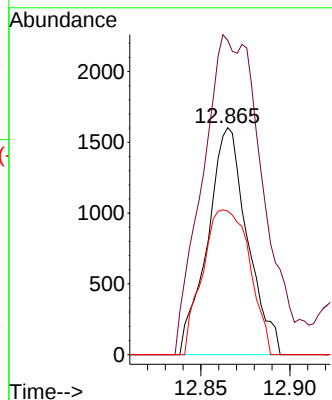
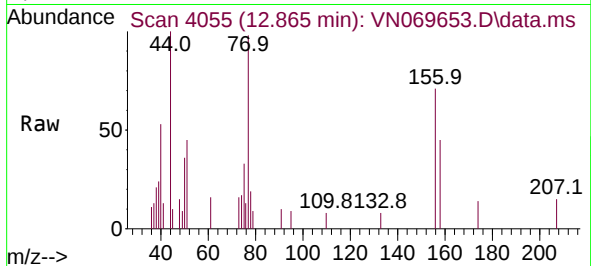




#73
Bromobenzene
Concen: 0.204 ug/l
RT: 12.865 min Scan# 4054
Delta R.T. 0.003 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

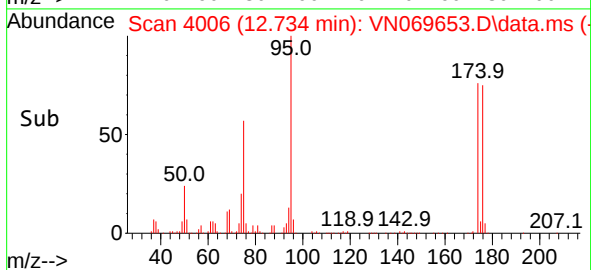
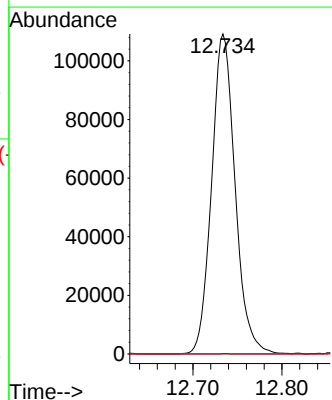
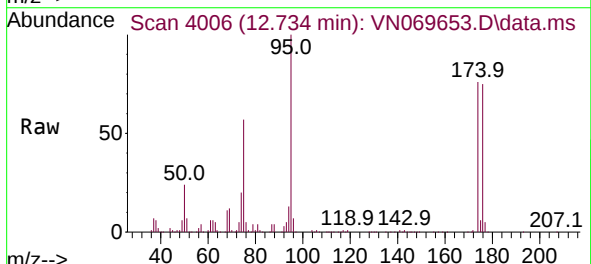
Instrument :
MSVOA_N
ClientSampleId :

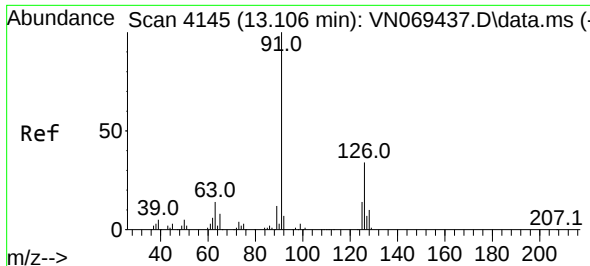
Tgt Ion:156 Resp: 2492
Ion Ratio Lower Upper
156 100
77 123.5 0.0 416.0
158 75.2 0.0 195.4



#77
t-1,4-Dichloro-2-butene
Concen: 43.566 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

Tgt Ion: 75 Resp: 200027
Ion Ratio Lower Upper
75 100
53 0.1 51.8 155.5#
89 0.0 22.9 68.7#

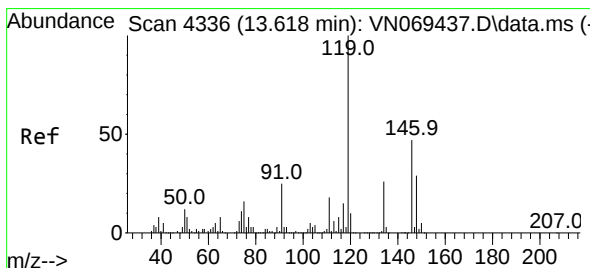
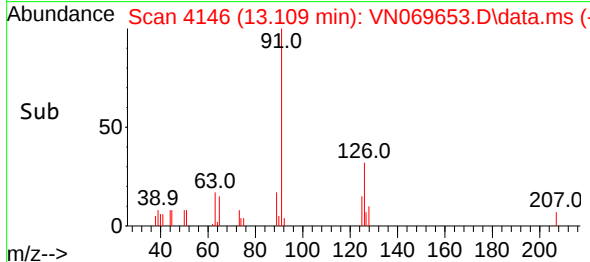
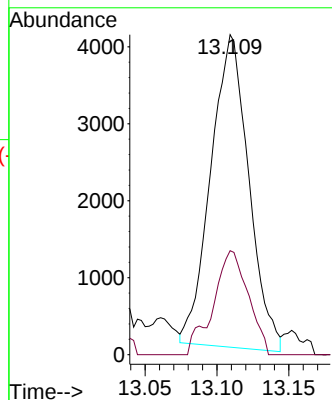
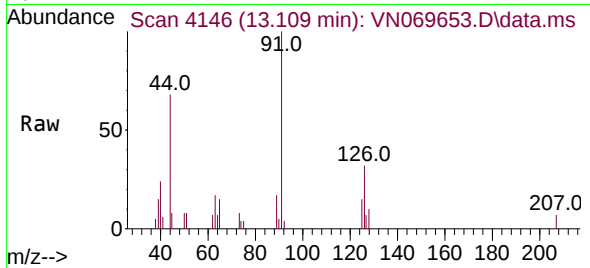




#78
4-Chlorotoluene
Concen: 0.210 ug/l
RT: 13.109 min Scan# 4145
Delta R.T. 0.003 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

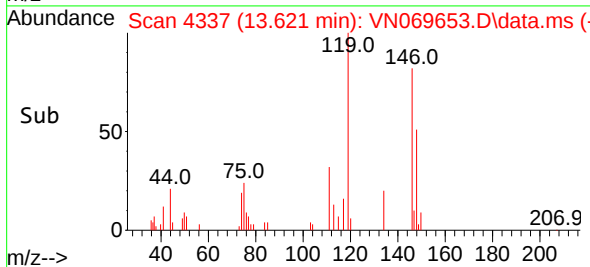
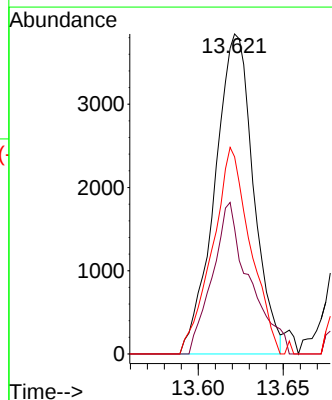
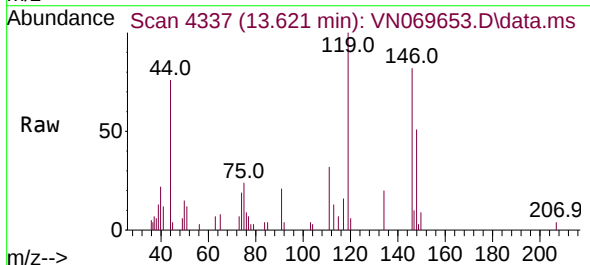
Instrument :
MSVOA_N
ClientSampleId :

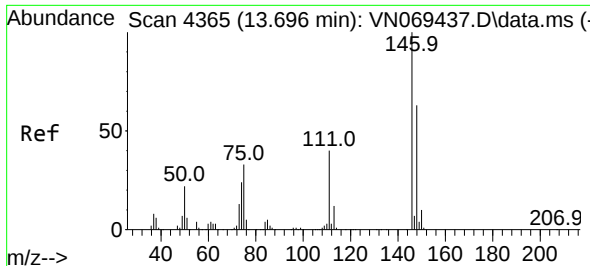
Tgt Ion: 91 Resp: 7451
Ion Ratio Lower Upper
91 100
126 27.0 0.0 70.6



#83
1,3-Dichlorobenzene
Concen: 0.292 ug/l
RT: 13.621 min Scan# 4337
Delta R.T. 0.003 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

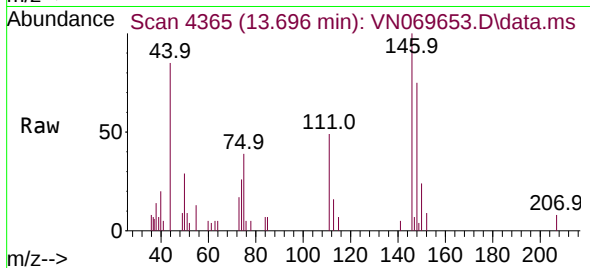
Tgt Ion:146 Resp: 6092
Ion Ratio Lower Upper
146 100
111 45.4 20.8 62.2
148 63.2 31.4 94.3



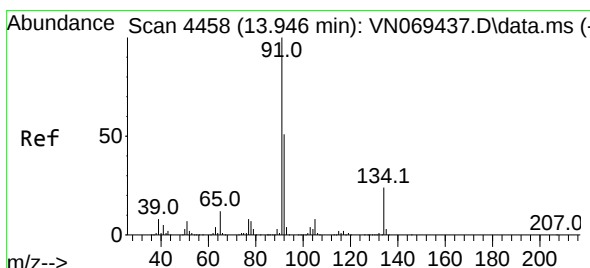
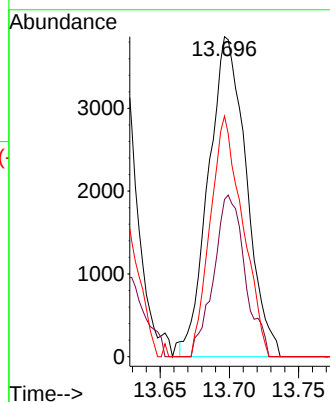
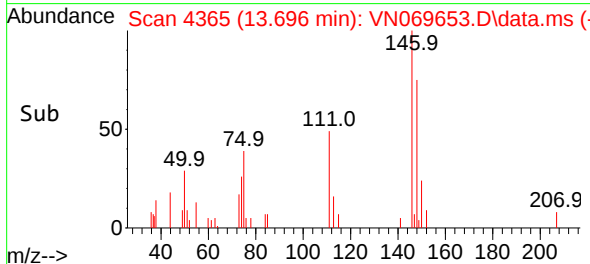


#84
1,4-Dichlorobenzene
Concen: 0.363 ug/l
RT: 13.696 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

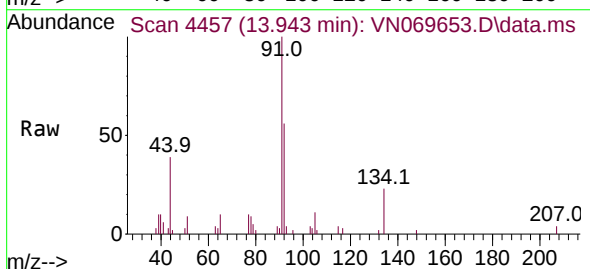
Instrument :
MSVOA_N
ClientSampleId :



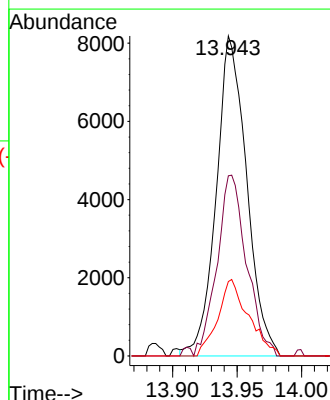
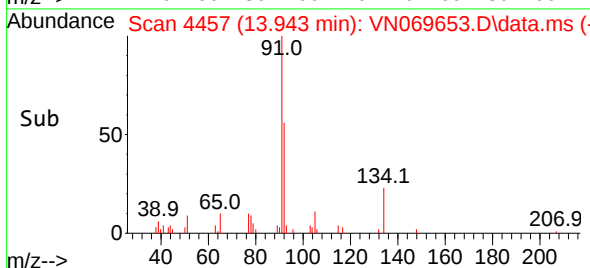
Tgt Ion:146 Resp: 7339
Ion Ratio Lower Upper
146 100
111 41.9 19.5 58.5
148 64.0 31.1 93.5

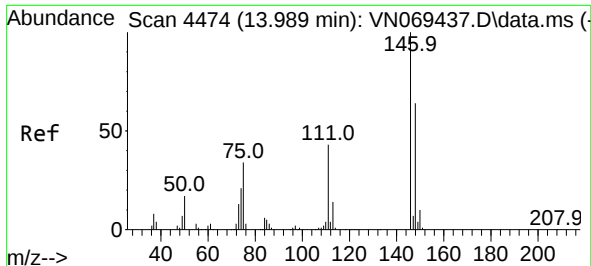


#85
n-Butylbenzene
Concen: 0.377 ug/l
RT: 13.943 min Scan# 4457
Delta R.T. 0.000 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37



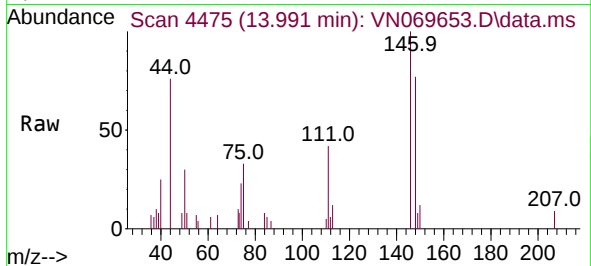
Tgt Ion: 91 Resp: 13421
Ion Ratio Lower Upper
91 100
92 55.0 0.0 100.6
134 24.1 0.0 50.2



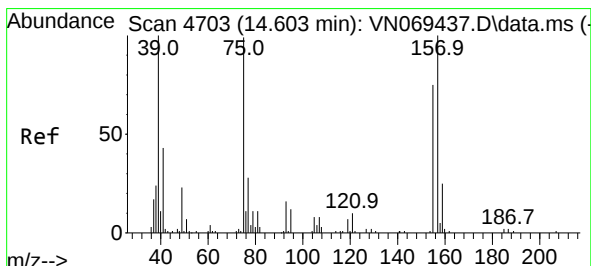
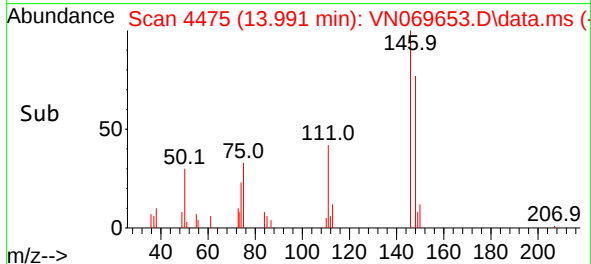
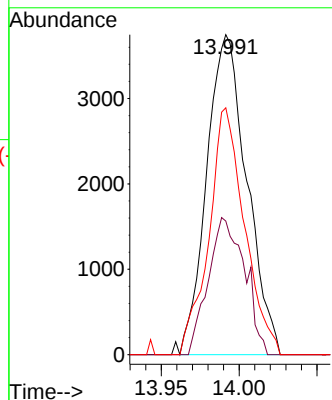


#87
1,2-Dichlorobenzene
Concen: 0.333 ug/l
RT: 13.991 min Scan# 4475
Delta R.T. 0.000 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

Instrument :
MSVOA_N
ClientSampleId :

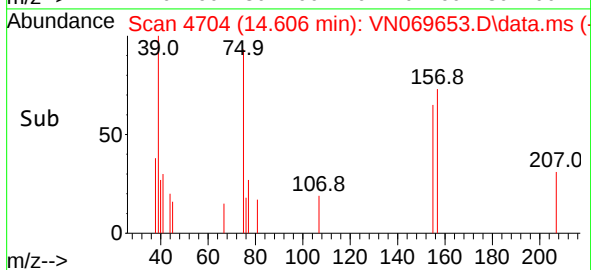
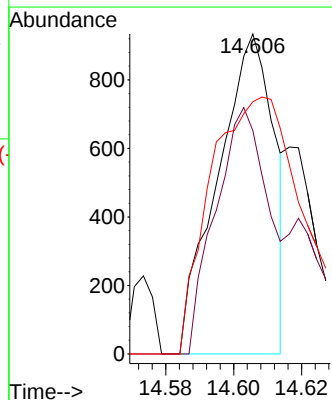
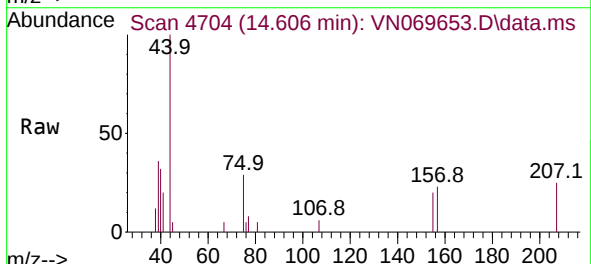


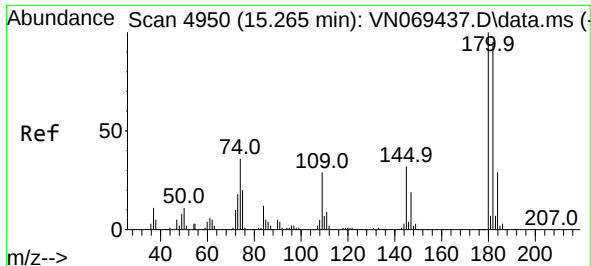
Tgt Ion:146 Resp: 6712
Ion Ratio Lower Upper
146 100
111 34.7 21.4 64.2
148 68.5 32.5 97.4



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.351 ug/l
RT: 14.606 min Scan# 4704
Delta R.T. 0.000 min
Lab File: VN069653.D
Acq: 26 Nov 2021 12:37

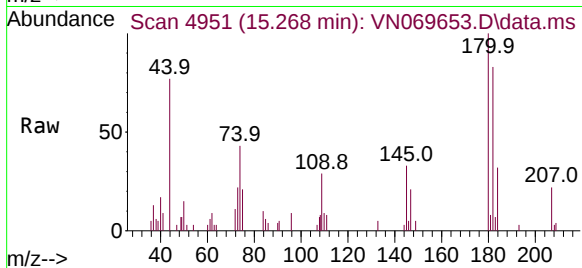
Tgt Ion: 75 Resp: 1072
Ion Ratio Lower Upper
75 100
155 72.1 63.8 95.8
157 129.3 77.9 116.9#



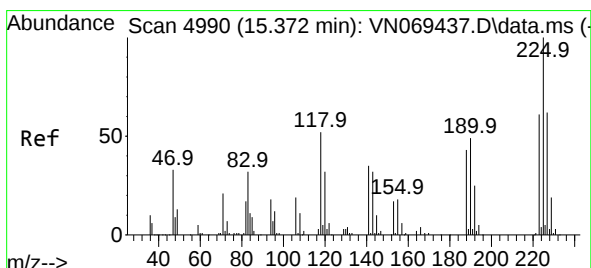
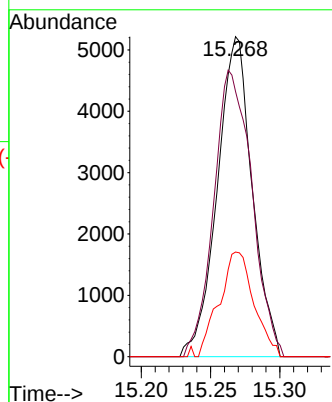
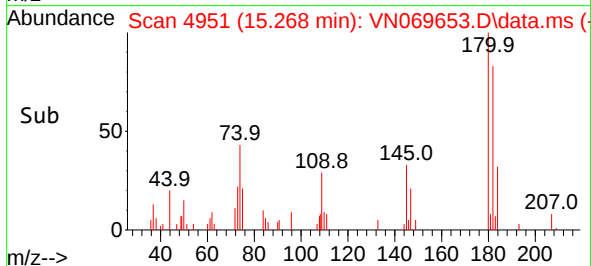


#89
 1,2,4-Trichlorobenzene
 Concen: 0.947 ug/l
 RT: 15.268 min Scan# 4950
 Delta R.T. 0.003 min
 Lab File: VN069653.D
 Acq: 26 Nov 2021 12:37

Instrument :
 MSVOA_N
 ClientSampleId :

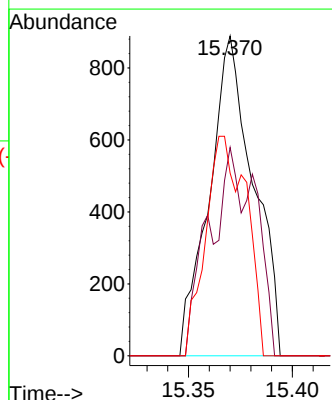
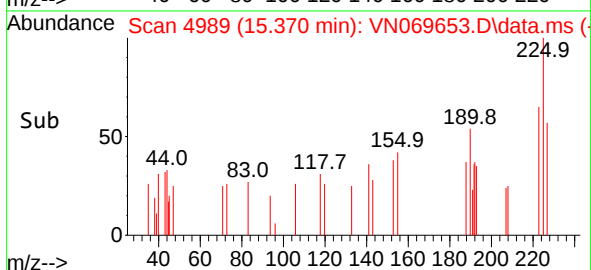
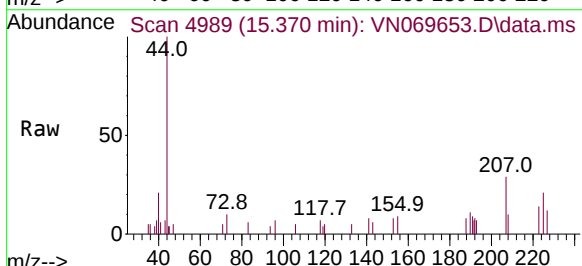


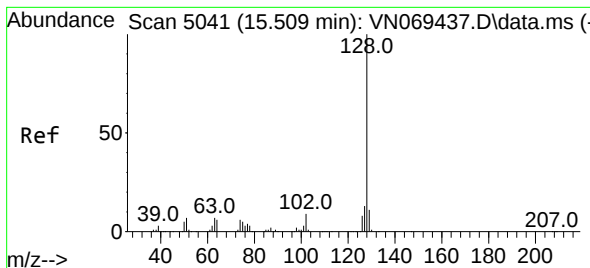
Tgt Ion:180 Resp: 9140
 Ion Ratio Lower Upper
 180 100
 182 97.7 77.7 116.5
 145 32.4 26.6 39.8



#90
 Hexachlorobutadiene
 Concen: 0.252 ug/l
 RT: 15.370 min Scan# 4989
 Delta R.T. -0.002 min
 Lab File: VN069653.D
 Acq: 26 Nov 2021 12:37

Tgt Ion:225 Resp: 1313
 Ion Ratio Lower Upper
 225 100
 223 28.0 0.0 126.8
 227 44.8 0.0 123.0





#91

Naphthalene

Concen: 1.411 ug/l

RT: 15.507 min Scan# 5041

Delta R.T. 0.000 min

Lab File: VN069653.D

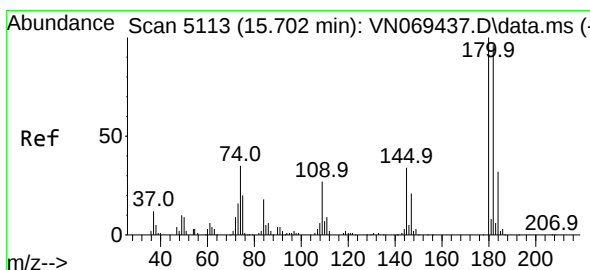
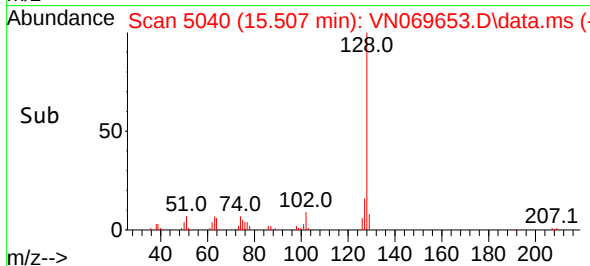
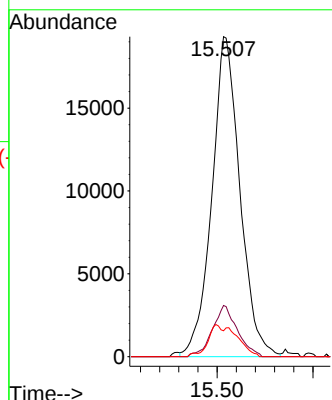
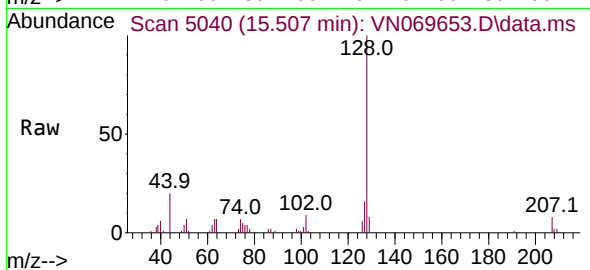
Acq: 26 Nov 2021 12:37

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128	Resp:	39233
Ion Ratio	Lower	Upper
128	100	
127	14.2	10.7 16.1
129	4.3	9.0 13.6



#92

1,2,3-Trichlorobenzene

Concen: 1.319 ug/l

RT: 15.703 min Scan# 5113

Delta R.T. 0.000 min

Lab File: VN069653.D

Acq: 26 Nov 2021 12:37

Tgt Ion:180	Resp:	12509
Ion Ratio	Lower	Upper
180	100	
182	44.9	0.0 190.0
145	31.8	0.0 67.8

