

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031722\
 Data File : VN071346.D
 Acq On : 17 Mar 2022 11:44
 Operator : JC\MD
 Sample : VN0317WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0317WBL01

Quant Time: Mar 30 09:22:45 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N031722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 17 06:37:08 2022
 Response via : Initial Calibration

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

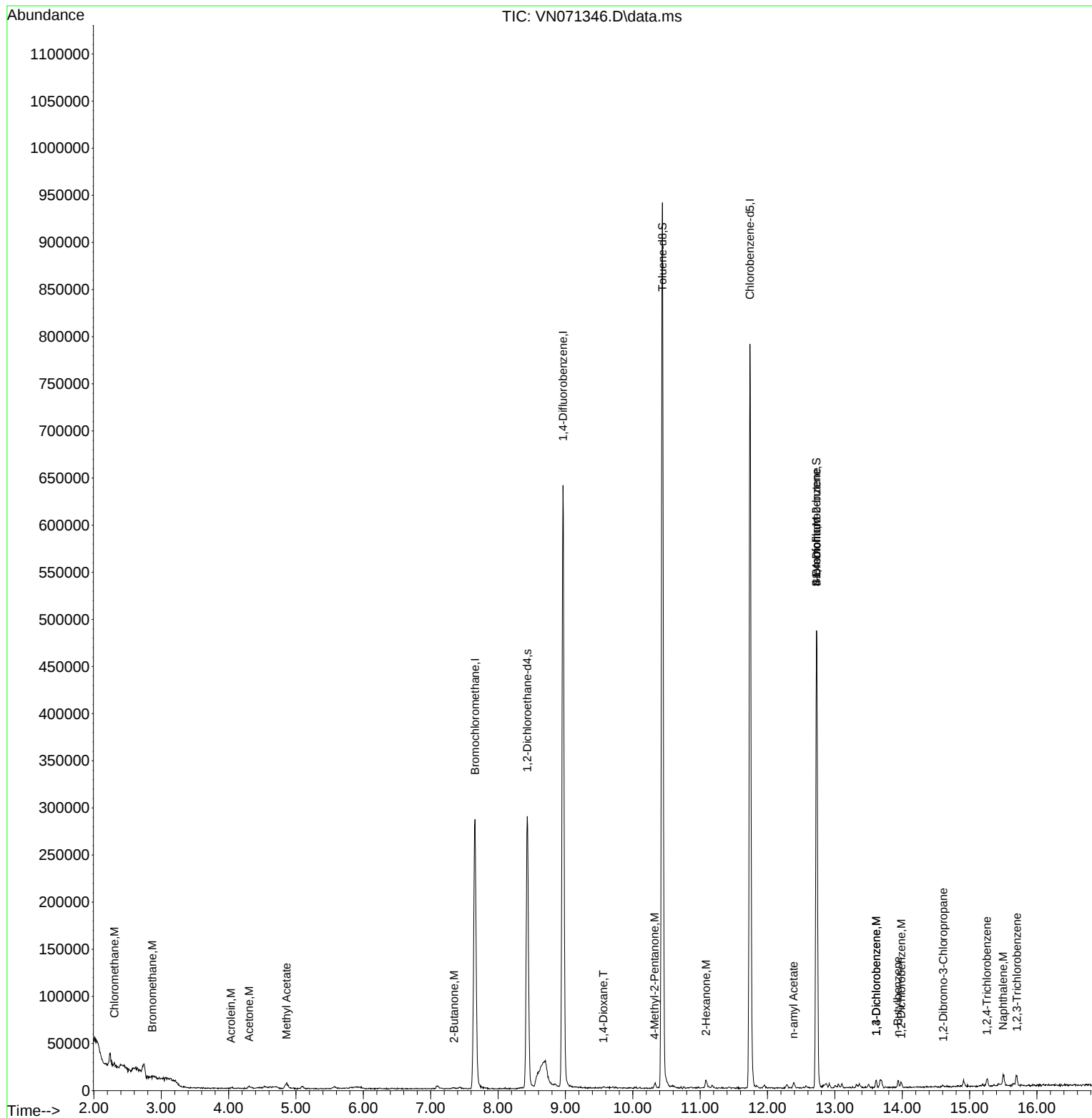
Internal Standards						
1) Bromochloromethane	7.657	128	101034	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	561828	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	462130	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	242499	30.231	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.767%	
60) 4-Bromofluorobenzene	12.727	95	177473	24.858	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 82.867%	
63) Toluene-d8	10.439	98	658298	30.966	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.233%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.304	50	2171	0.249	ug/l	94
5) Bromomethane	2.869	94	1337	0.333	ug/l	95
12) Methyl Acetate	4.857	43	9321	0.843	ug/l #	81
13) Acrolein	4.034	56	399	0.275	ug/l	100
15) Acetone	4.304	58	315	0.260	ug/l #	1
30) 2-Butanone	7.345	43	1434	0.224	ug/l #	74
45) 1,4-Dioxane	9.563	88	119	0.667	ug/l #	1
47) n-amyl Acetate	12.386	43	3709	0.279	ug/l	96
56) Bromoform	12.727	173	1588	0.289	ug/l #	1
58) 4-Methyl-2-Pentanone	10.322	43	2464	0.222	ug/l	98
59) 2-Hexanone	11.086	43	7479	0.907	ug/l #	61
77) t-1,4-Dichloro-2-butene	12.727	75	91273	31.382	ug/l #	8
83) 1,3-Dichlorobenzene	13.615	146	2515	0.236	ug/l	93
84) 1,4-Dichlorobenzene	13.615	146	2515	0.248	ug/l	95
85) n-Butylbenzene	13.933	91	4634	0.288	ug/l	93
87) 1,2-Dichlorobenzene	13.986	146	2944	0.285	ug/l	89
88) 1,2-Dibromo-3-Chloropr...	14.610	75	528	0.284	ug/l #	85
89) 1,2,4-Trichlorobenzene	15.257	180	3348	0.700	ug/l	93
91) Naphthalene	15.498	128	12282	0.820	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.704	180	4353	0.887	ug/l	58

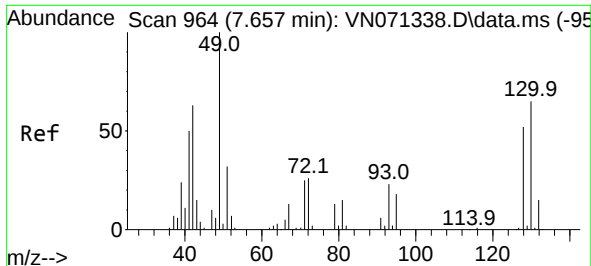
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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VN0317WBL01

Quant Time: Mar 30 09:22:45 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N031722W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 17 06:37:08 2022
Response via : Initial Calibration

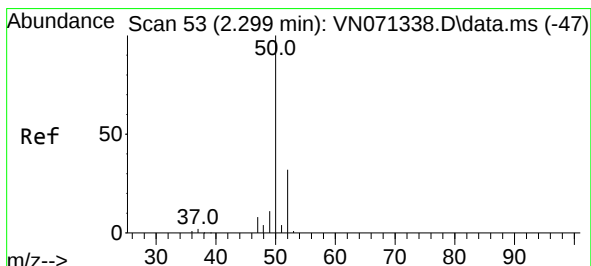
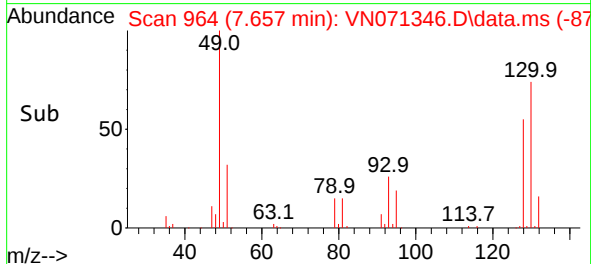
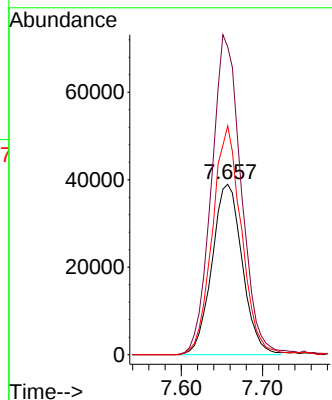
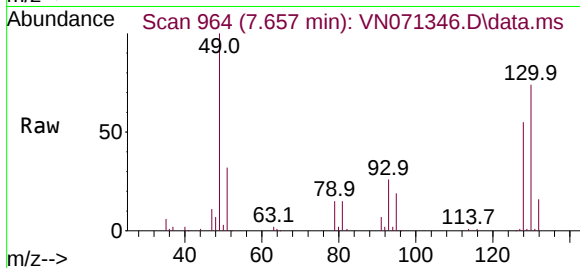




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.657 min Scan# 90
Delta R.T. 0.000 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

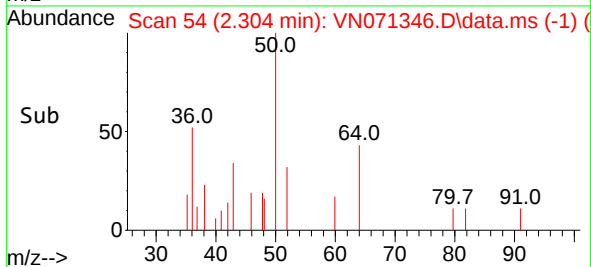
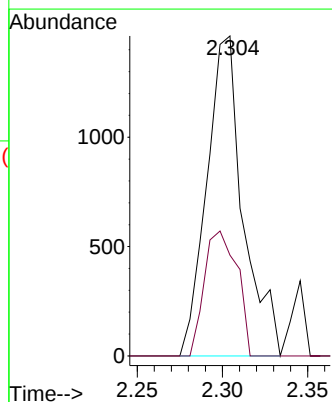
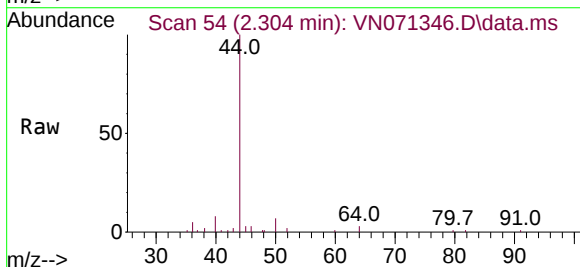
Instrument :
MSVOA_N
ClientSampleId :
VN0317WBL01

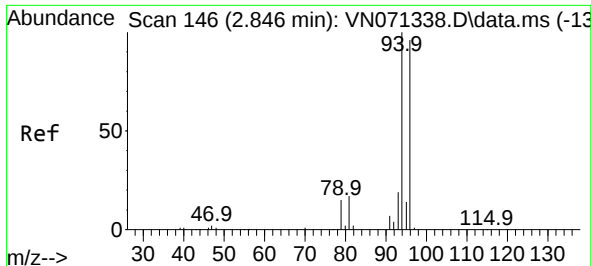
Tgt Ion:128 Resp: 101034
Ion Ratio Lower Upper
128 100
49 184.2 0.0 392.3
130 129.0 0.0 320.2



#3
Chloromethane
Concen: 0.249 ug/l
RT: 2.304 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

Tgt Ion: 50 Resp: 2171
Ion Ratio Lower Upper
50 100
52 31.5 27.8 41.6

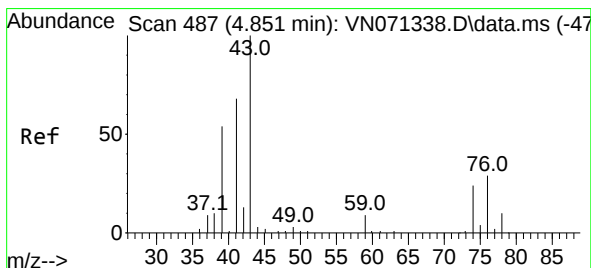
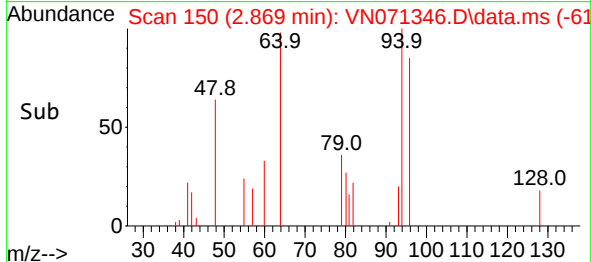
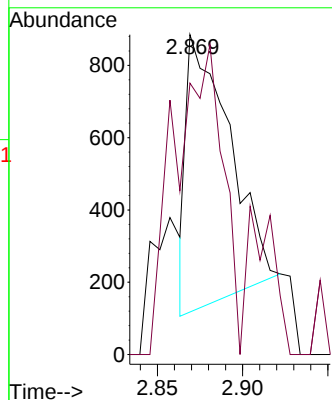
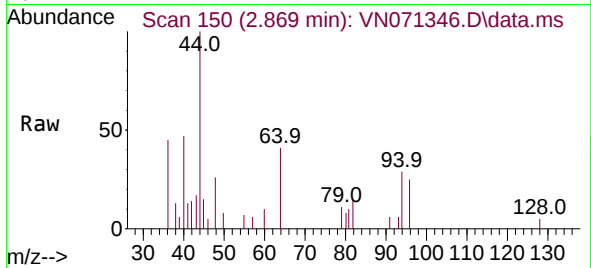




#5
Bromomethane
Concen: 0.333 ug/l
RT: 2.869 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

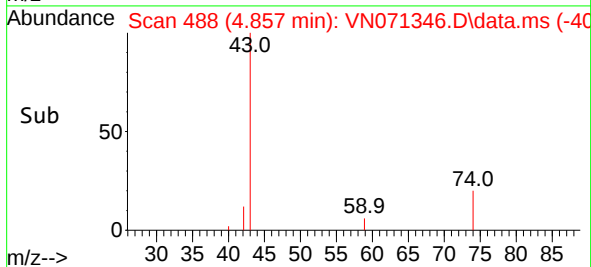
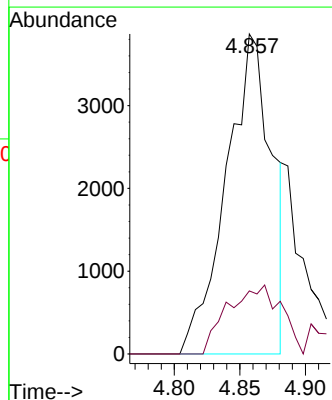
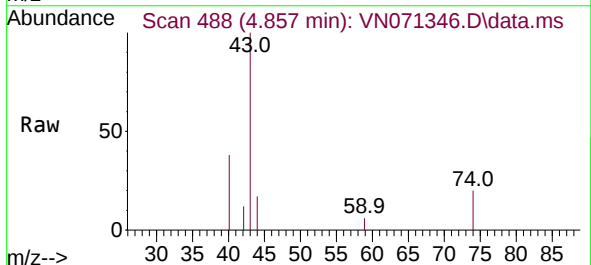
Instrument :
MSVOA_N
ClientSampleId :
VN0317WBL01

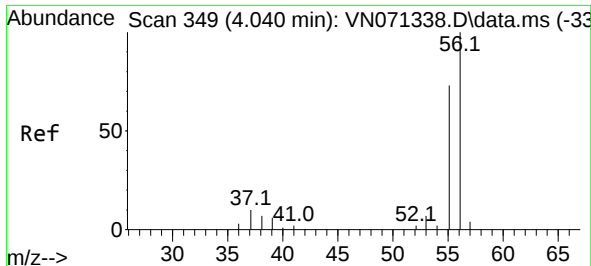
Tgt Ion: 94 Resp: 1337
Ion Ratio Lower Upper
94 100
96 88.8 75.2 112.8



#12
Methyl Acetate
Concen: 0.843 ug/l
RT: 4.857 min Scan# 488
Delta R.T. 0.006 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

Tgt Ion: 43 Resp: 9321
Ion Ratio Lower Upper
43 100
74 16.4 20.8 31.2#

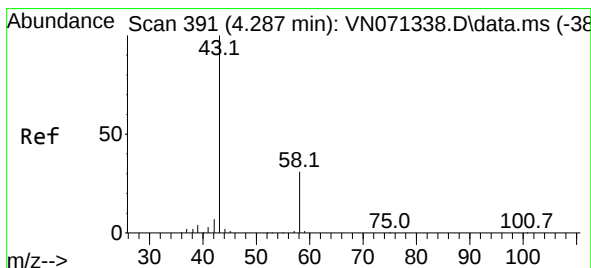
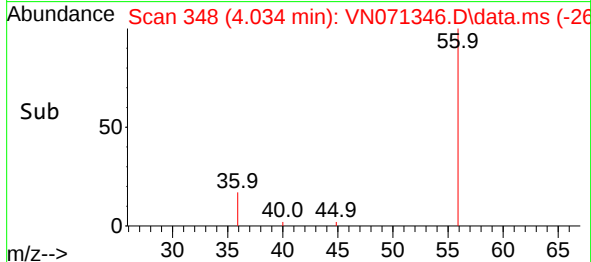
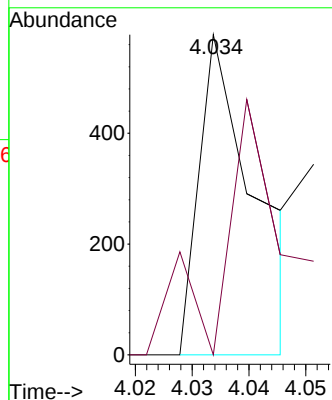
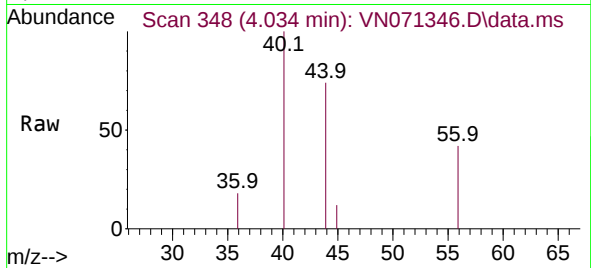




#13
Acrolein
Concen: 0.275 ug/l
RT: 4.034 min Scan# 34
Delta R.T. -0.006 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

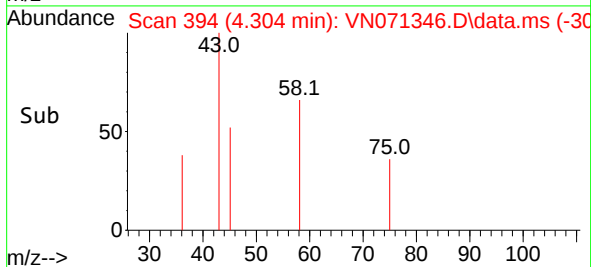
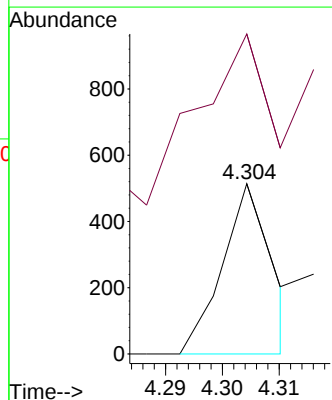
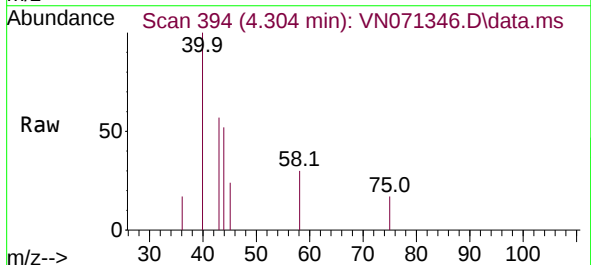
Instrument :
MSVOA_N
ClientSampleId :
VN0317WBL01

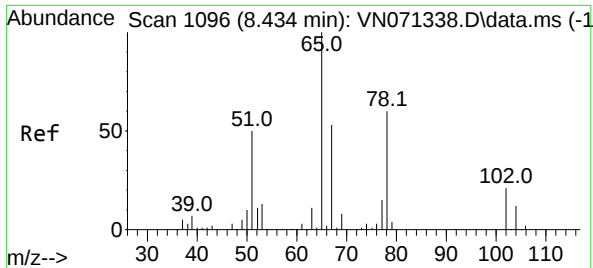
Tgt Ion: 56 Resp: 399
Ion Ratio Lower Upper
56 100
55 71.7 57.6 86.4



#15
Acetone
Concen: 0.260 ug/l
RT: 4.304 min Scan# 394
Delta R.T. 0.018 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

Tgt Ion: 58 Resp: 315
Ion Ratio Lower Upper
58 100
43 66.9 256.6 384.8#

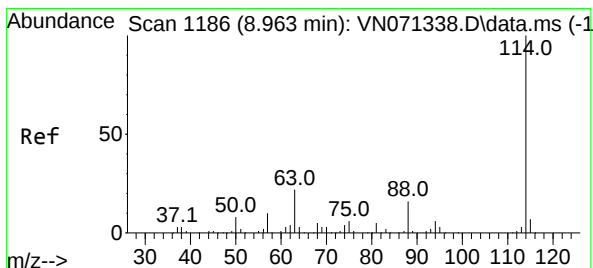
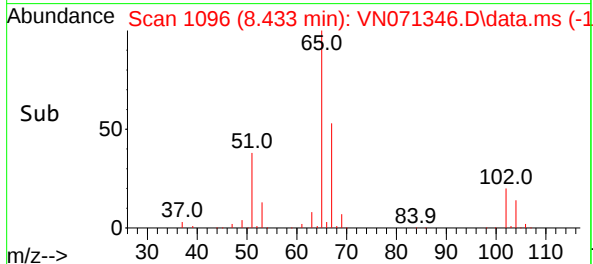
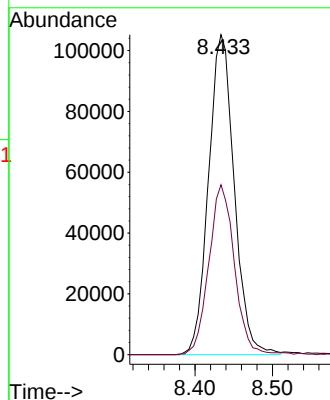
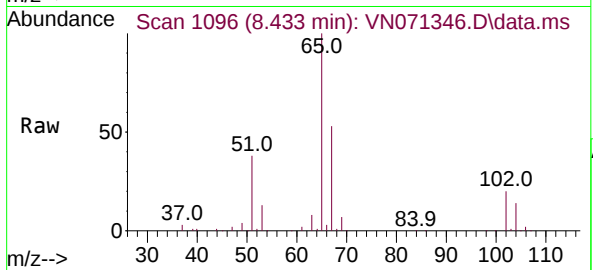




#27
1,2-Dichloroethane-d4
Concen: 30.231 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. -0.000 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

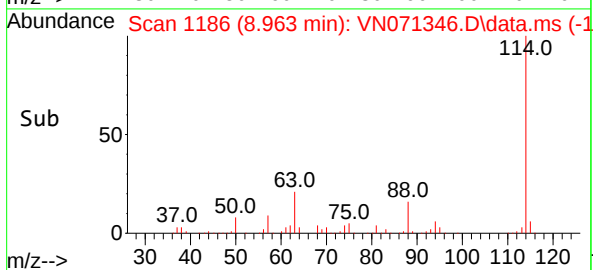
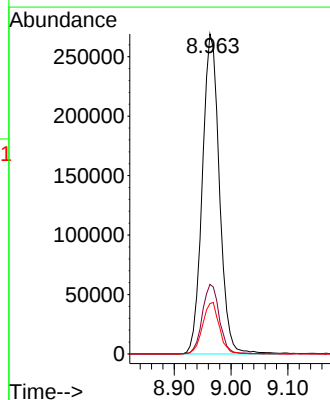
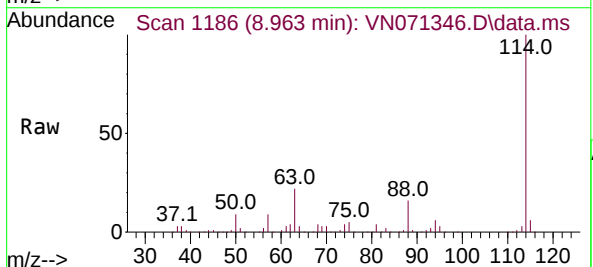
Instrument :
MSVOA_N
ClientSampleId :
VN0317WBL01

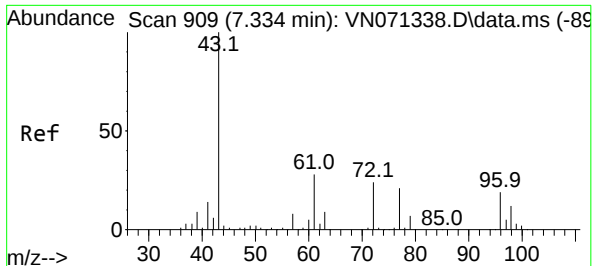
Tgt Ion: 65 Resp: 242499
Ion Ratio Lower Upper
65 100
67 52.6 40.2 60.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

Tgt Ion: 114 Resp: 561828
Ion Ratio Lower Upper
114 100
63 21.6 15.8 23.6
88 15.8 11.6 17.4

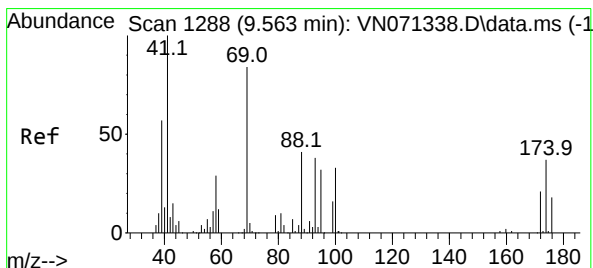
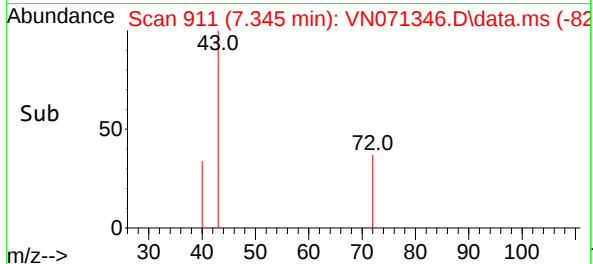
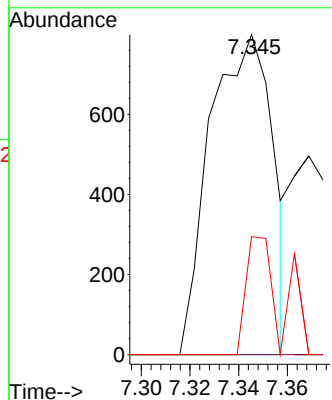
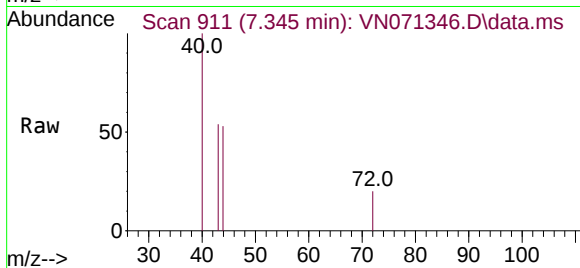




#30
2-Butanone
Concen: 0.224 ug/l
RT: 7.345 min Scan# 911
Delta R.T. 0.012 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

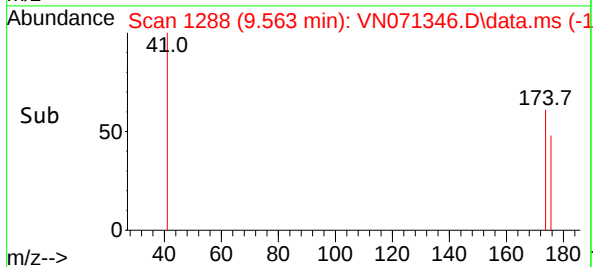
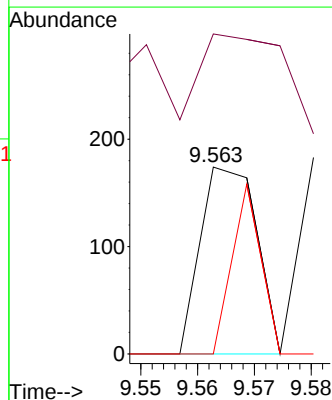
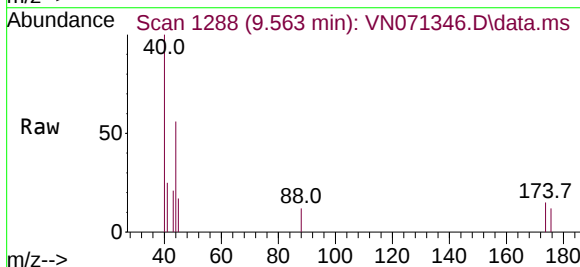
Instrument :
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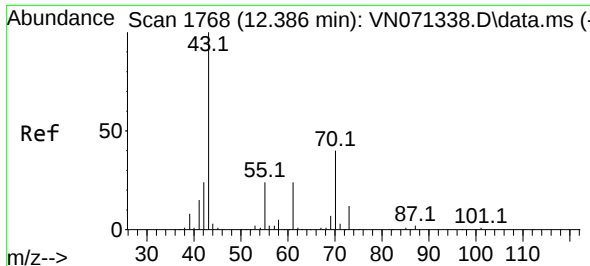
Tgt Ion: 43 Resp: 1434
Ion Ratio Lower Upper
43 100
57 0.0 6.7 10.1#
72 14.4 23.2 34.8#



#45
1,4-Dioxane
Concen: 0.667 ug/l
RT: 9.563 min Scan# 1288
Delta R.T. -0.000 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

Tgt Ion: 88 Resp: 119
Ion Ratio Lower Upper
88 100
43 321.0 25.0 37.6#
58 0.0 49.4 74.2#

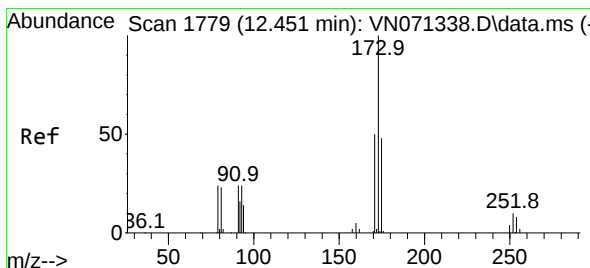
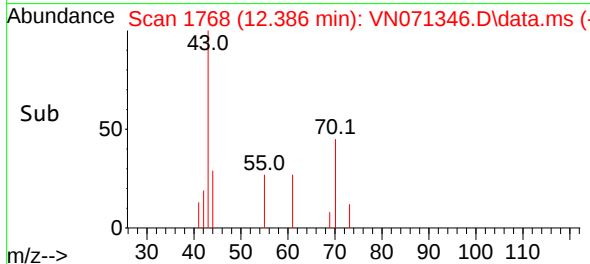
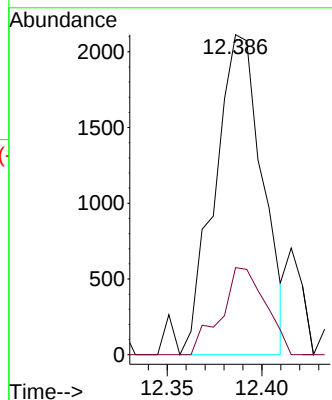
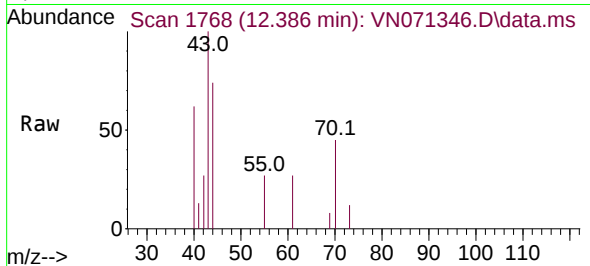




#47
n-amyl acetate
Concen: 0.279 ug/l
RT: 12.386 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

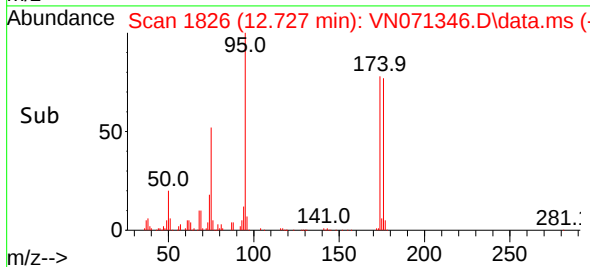
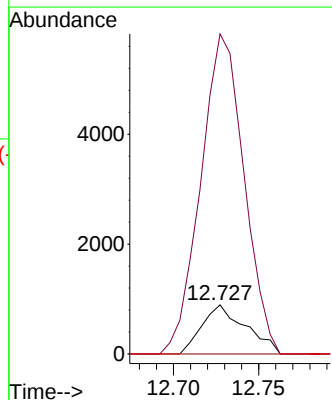
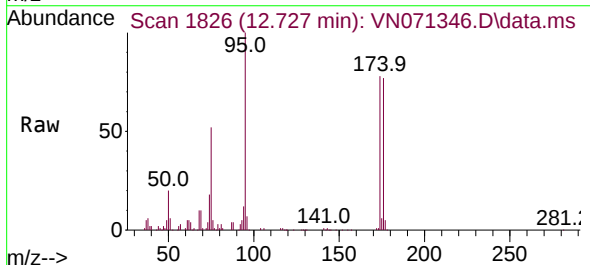
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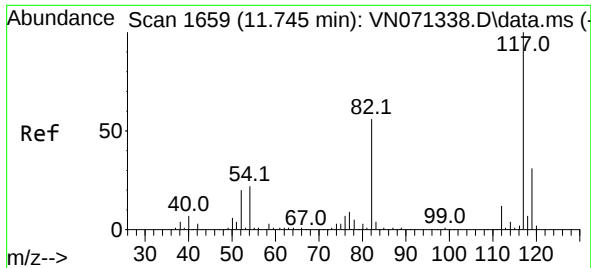
Tgt Ion: 43 Resp: 3709
Ion Ratio Lower Upper
43 100
55 21.8 19.0 28.6



#56
Bromoform
Concen: 0.289 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.276 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

Tgt Ion: 173 Resp: 1588
Ion Ratio Lower Upper
173 100
175 649.7 38.6 58.0#
254 0.0 0.0 0.0

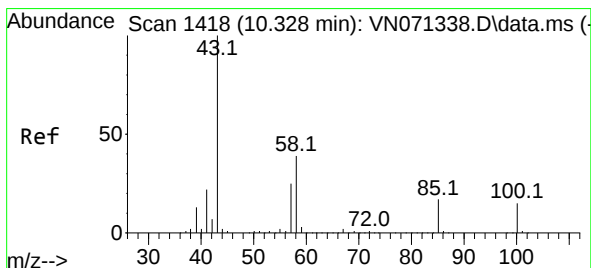
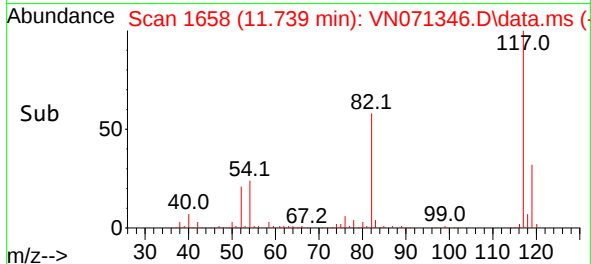
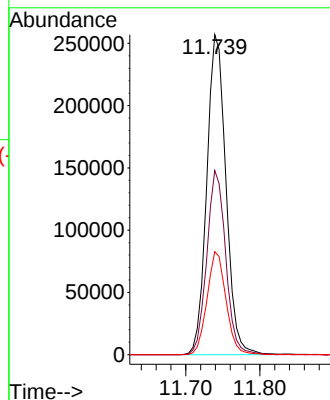
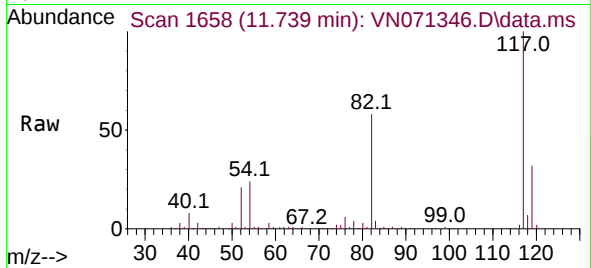




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. -0.006 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

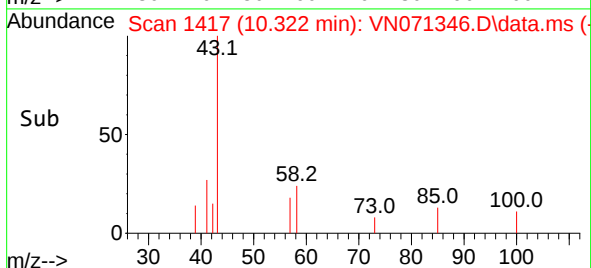
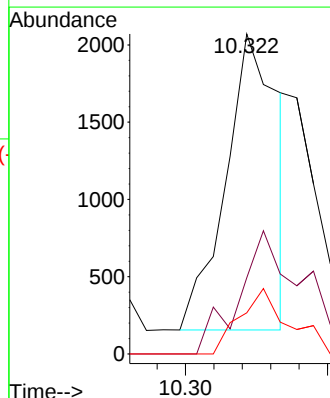
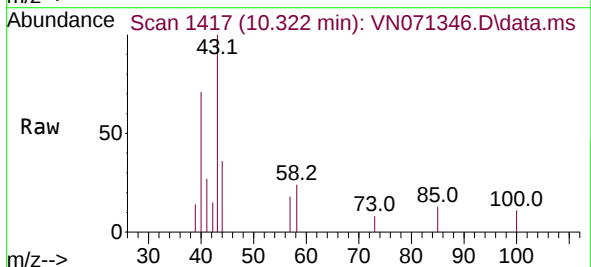
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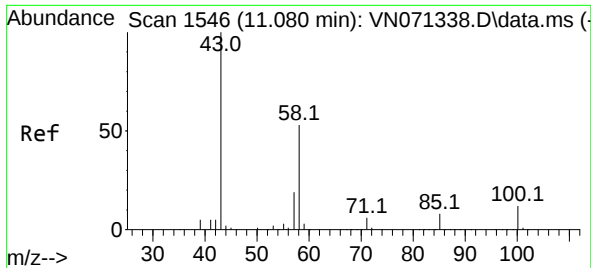
Tgt Ion:117 Resp: 462130
Ion Ratio Lower Upper
117 100
82 56.8 43.6 65.4
119 31.9 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.222 ug/l
RT: 10.322 min Scan# 1417
Delta R.T. -0.006 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

Tgt Ion: 43 Resp: 2464
Ion Ratio Lower Upper
43 100
58 38.9 30.0 45.0
85 18.0 15.0 22.6

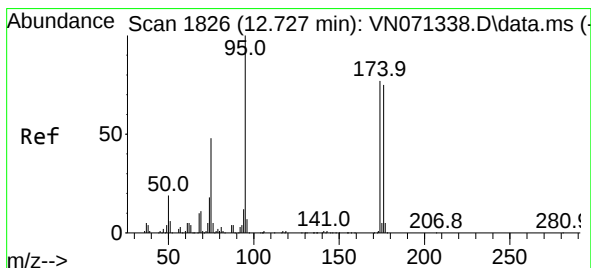
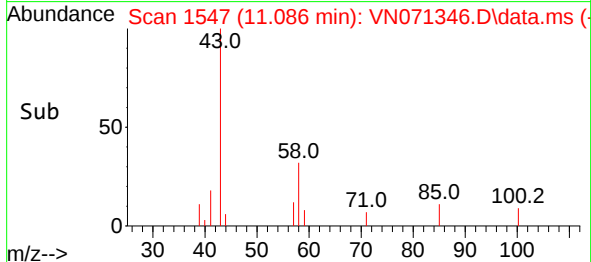
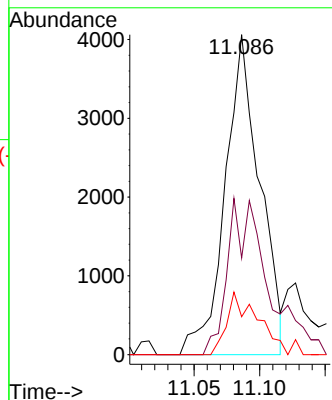
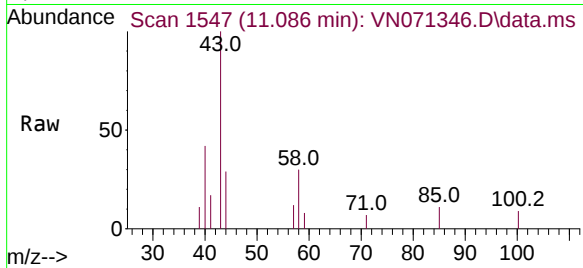




#59
2-Hexanone
Concen: 0.907 ug/l
RT: 11.086 min Scan# 1546
Delta R.T. 0.006 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

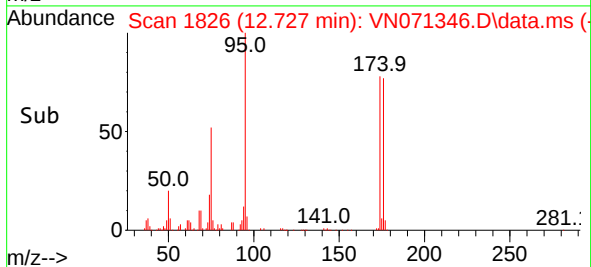
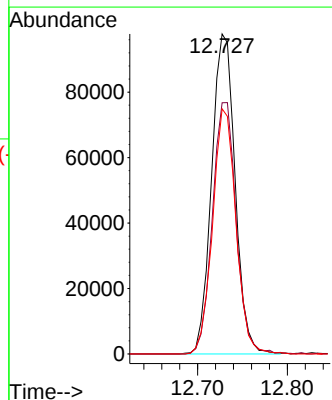
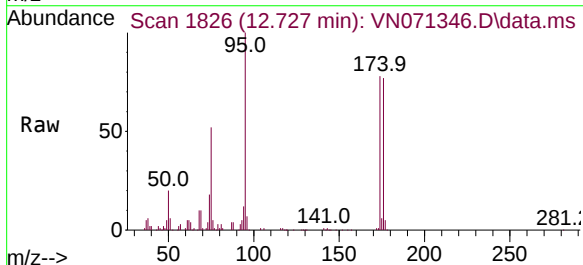
Instrument :
MSVOA_N
ClientSampleId :
VN0317WBL01

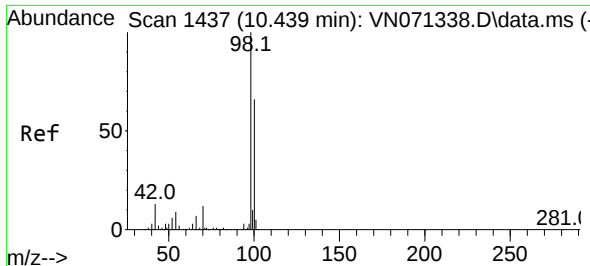
Tgt Ion: 43 Resp: 7479
Ion Ratio Lower Upper
43 100
58 26.2 42.2 63.2#
57 0.0 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 24.858 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

Tgt Ion: 95 Resp: 177473
Ion Ratio Lower Upper
95 100
174 79.3 62.9 94.3
176 76.3 61.0 91.4

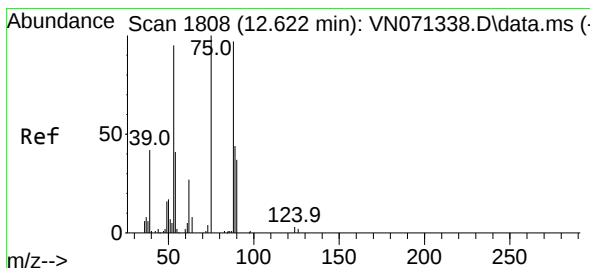
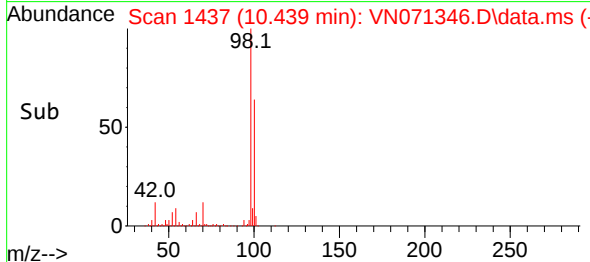
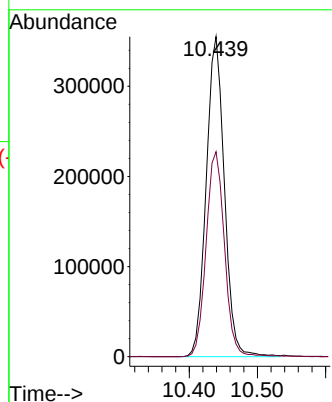
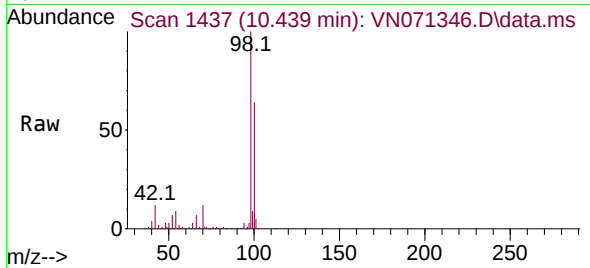




#63
Toluene-d8
Concen: 30.966 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

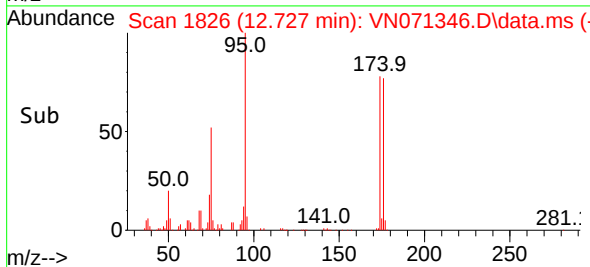
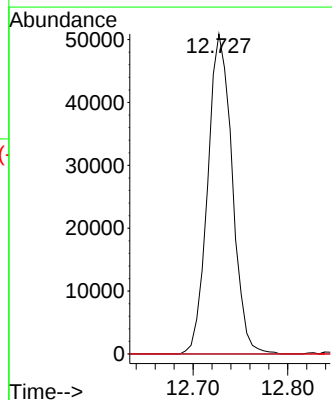
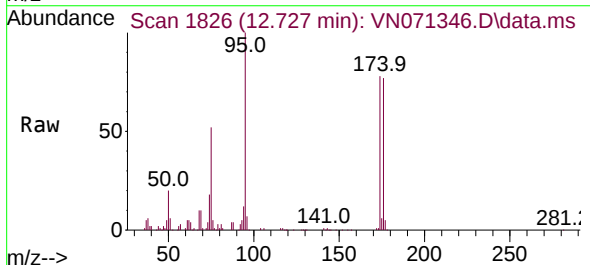
Instrument :
MSVOA_N
ClientSampleId :
VN0317WBL01

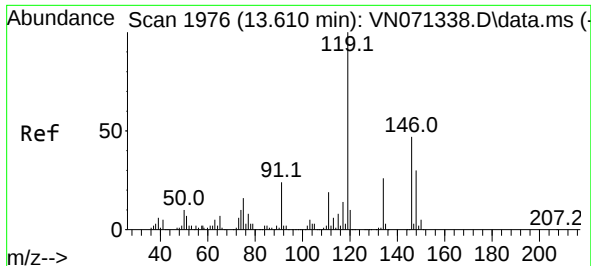
Tgt Ion: 98 Resp: 658298
Ion Ratio Lower Upper
98 100
100 64.7 50.6 76.0



#77
t-1,4-Dichloro-2-butene
Concen: 31.382 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

Tgt Ion: 75 Resp: 91273
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#

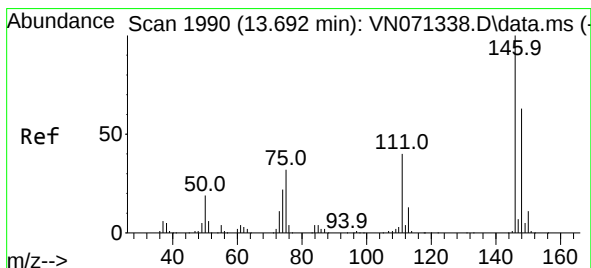
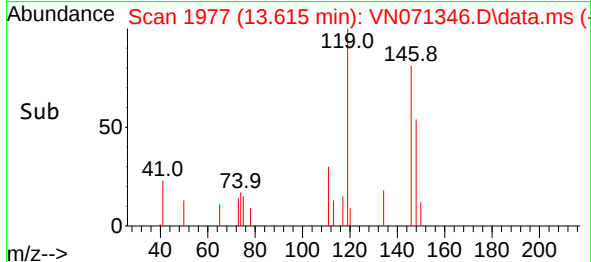
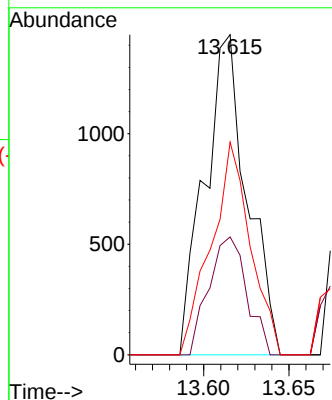
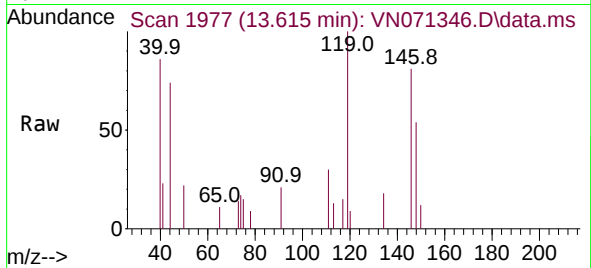




#83
1,3-Dichlorobenzene
Concen: 0.236 ug/l
RT: 13.615 min Scan# 1976
Delta R.T. 0.006 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

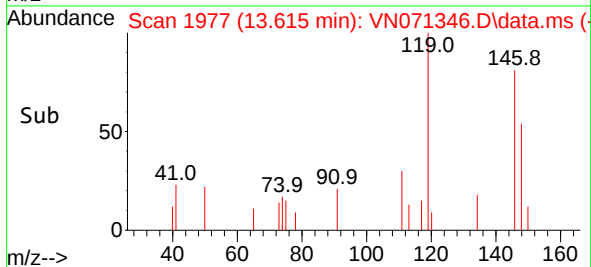
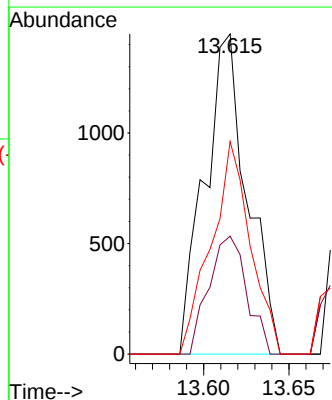
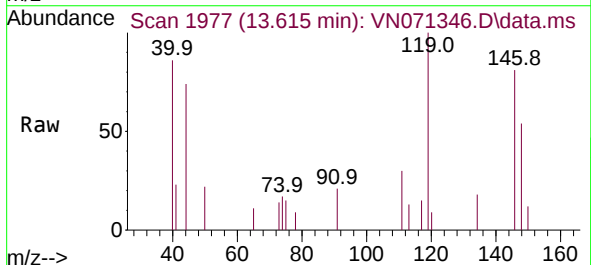
Instrument :
MSVOA_N
ClientSampleId :
VN0317WBL01

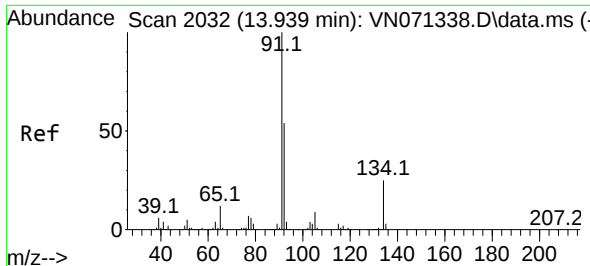
Tgt Ion:146 Resp: 2515
Ion Ratio Lower Upper
146 100
111 33.0 20.8 62.2
148 61.2 31.4 94.3



#84
1,4-Dichlorobenzene
Concen: 0.248 ug/l
RT: 13.615 min Scan# 1977
Delta R.T. -0.077 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

Tgt Ion:146 Resp: 2515
Ion Ratio Lower Upper
146 100
111 33.0 19.5 58.5
148 61.2 31.1 93.5

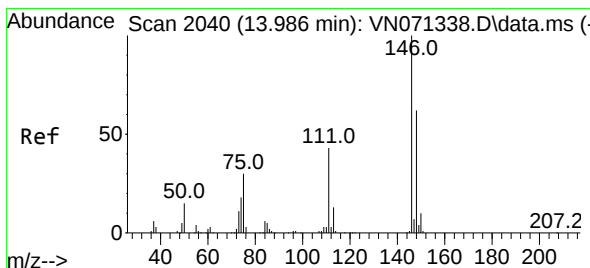
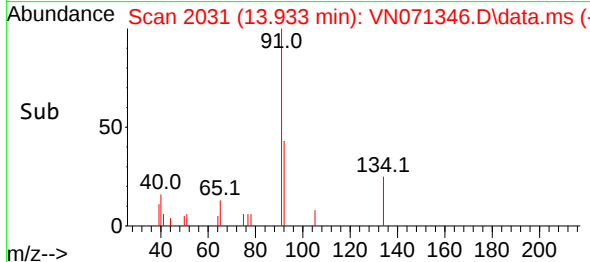
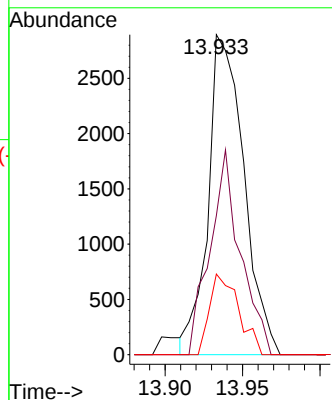
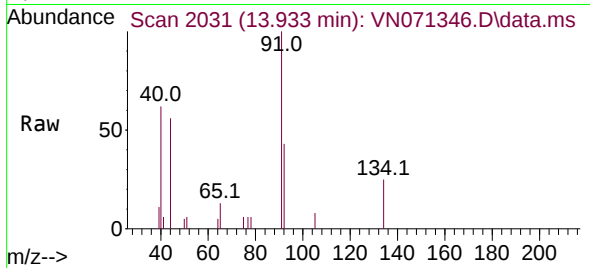




#85
n-Butylbenzene
Concen: 0.288 ug/l
RT: 13.933 min Scan# 2031
Delta R.T. -0.006 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

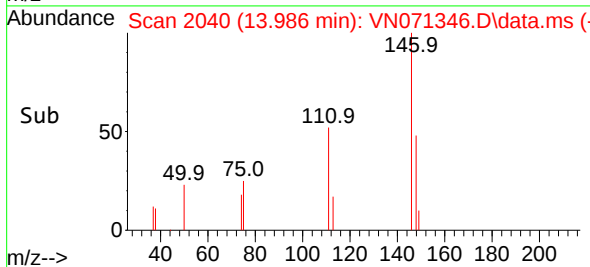
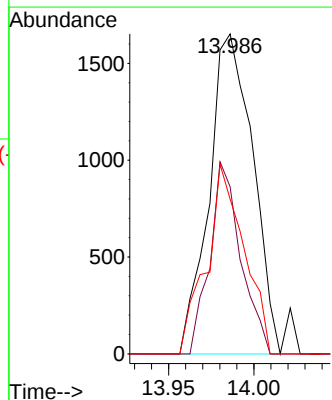
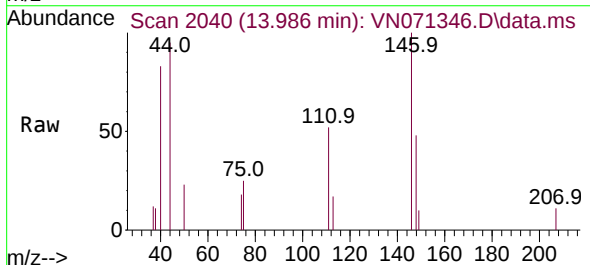
Instrument :
MSVOA_N
ClientSampleId :
VN0317WBL01

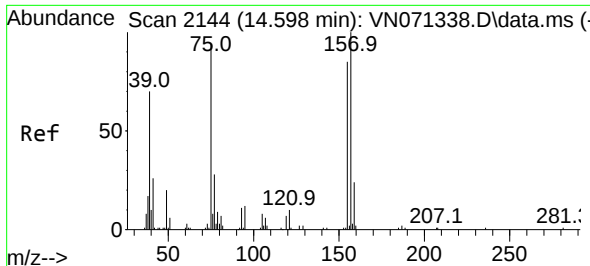
Tgt Ion: 91	Resp: 4634
Ion Ratio	Lower Upper
91 100	
92 54.6	0.0 100.6
134 20.6	0.0 50.2



#87
1,2-Dichlorobenzene
Concen: 0.285 ug/l
RT: 13.986 min Scan# 2040
Delta R.T. -0.000 min
Lab File: VN071346.D
Acq: 17 Mar 2022 11:44

Tgt Ion:146	Resp:	2944	
Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.2
148	50.8	32.5	97.4

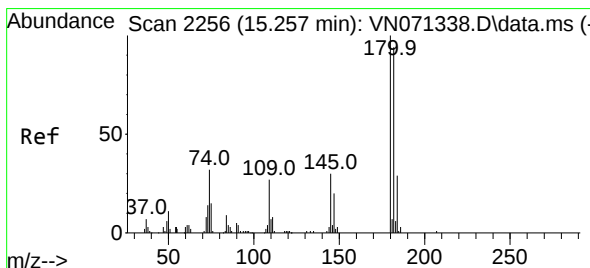
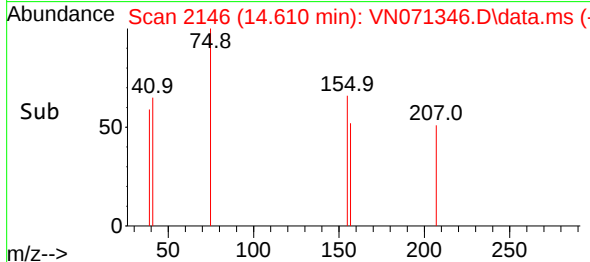
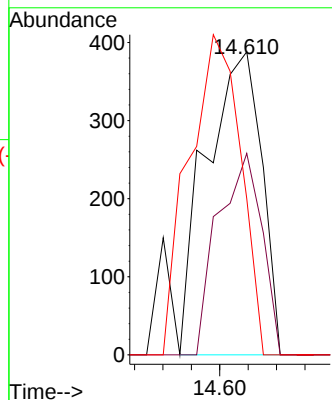
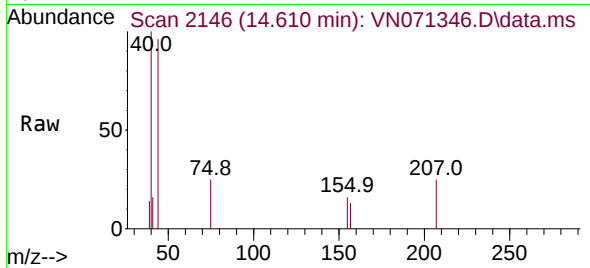




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.284 ug/l
 RT: 14.610 min Scan# 2146
 Delta R.T. 0.012 min
 Lab File: VN071346.D
 Acq: 17 Mar 2022 11:44

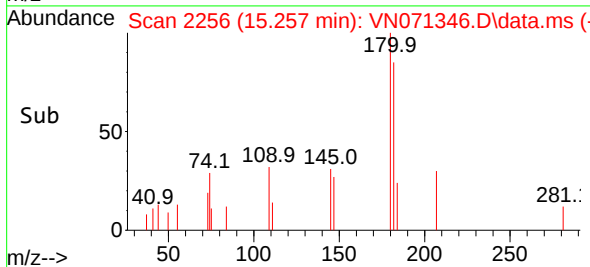
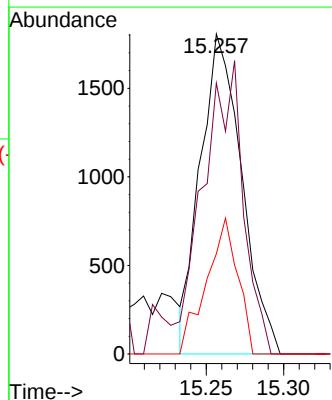
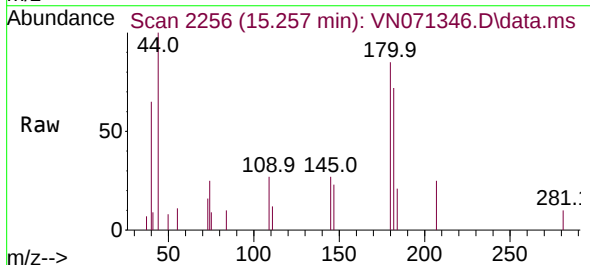
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0317WBL01

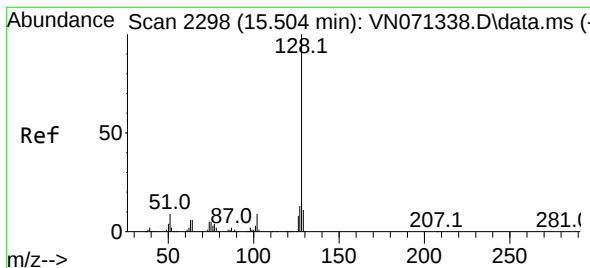
Tgt Ion: 75 Resp: 528
 Ion Ratio Lower Upper
 75 100
 155 52.5 63.8 95.8#
 157 98.5 77.9 116.9



#89
 1,2,4-Trichlorobenzene
 Concen: 0.700 ug/l
 RT: 15.257 min Scan# 2256
 Delta R.T. -0.000 min
 Lab File: VN071346.D
 Acq: 17 Mar 2022 11:44

Tgt Ion: 180 Resp: 3348
 Ion Ratio Lower Upper
 180 100
 182 88.4 77.7 116.5
 145 32.2 26.6 39.8





#91

Naphthalene

Concen: 0.820 ug/l

RT: 15.498 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN071346.D

Acq: 17 Mar 2022 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0317WBL01

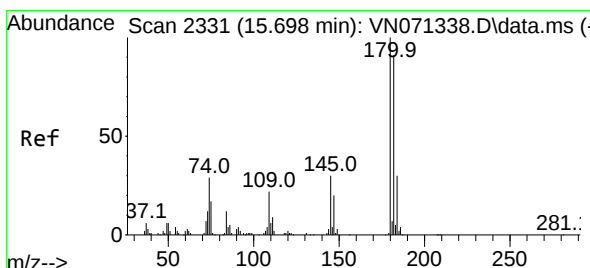
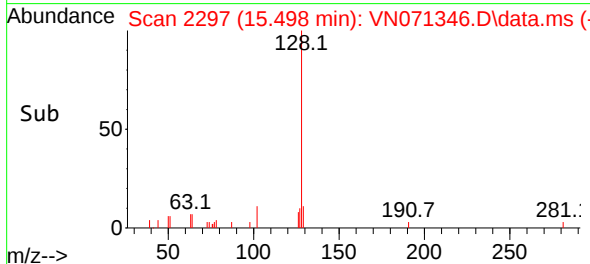
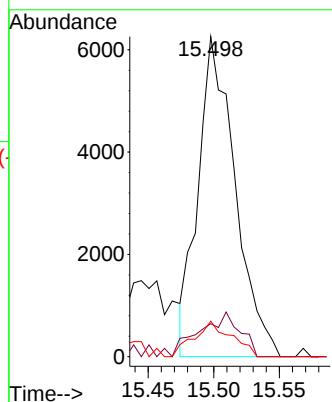
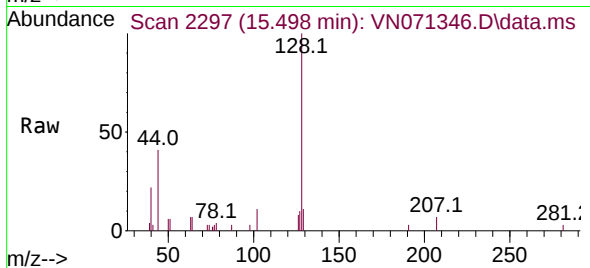
Tgt Ion:128 Resp: 12282

Ion Ratio Lower Upper

128 100

127 8.4 10.7 16.1#

129 11.2 9.0 13.6



#92

1,2,3-Trichlorobenzene

Concen: 0.887 ug/l

RT: 15.704 min Scan# 2332

Delta R.T. 0.006 min

Lab File: VN071346.D

Acq: 17 Mar 2022 11:44

Tgt Ion:180 Resp: 4353

Ion Ratio Lower Upper

180 100

182 41.7 0.0 190.0

145 31.6 0.0 67.8

