

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
 Data File : VN069134.D
 Acq On : 22 Oct 2021 14:33
 Operator : JC/MD
 Sample : VN1022WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 23 07:54:07 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 22 13:15:19 2021
 Response via : Initial Calibration

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

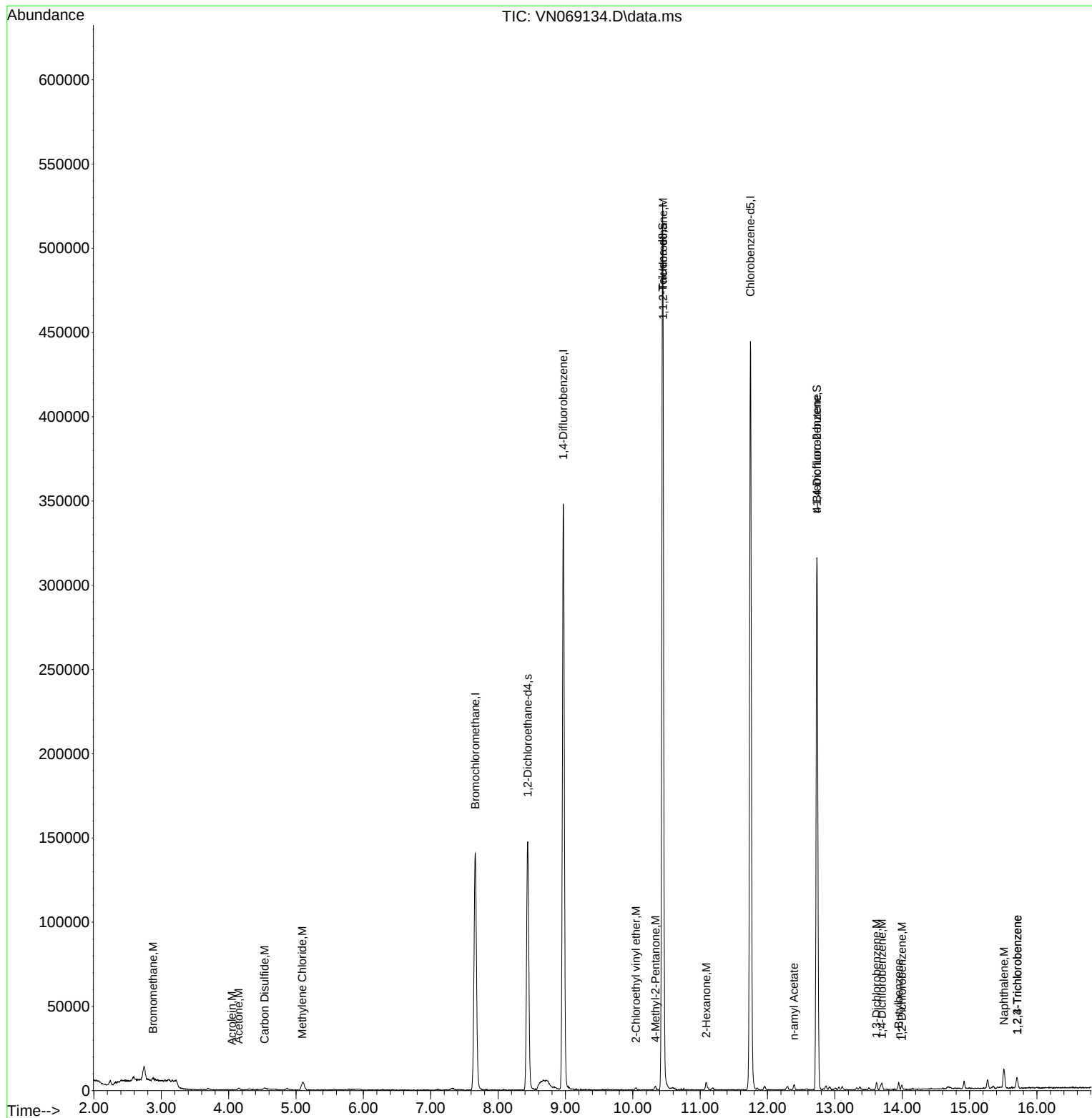
Internal Standards						
1) Bromochloromethane	7.662	128	52779	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	313270	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	269451	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	127222	30.947	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.167%
60) 4-Bromofluorobenzene	12.734	95	118687	25.689	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	85.633%
63) Toluene-d8	10.443	98	375336	30.831	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.767%
Target Compounds						
					Qvalue	
5) Bromomethane	2.877	94	1343	0.473	ug/l	82
13) Acrolein	4.047	56	88	0.258	ug/l #	77
15) Acetone	4.149	58	414	0.826	ug/l #	1
16) Carbon Disulfide	4.532	76	1625	0.204	ug/l #	73
18) Methylene Chloride	5.093	84	1700	0.482	ug/l	92
47) n-amyl Acetate	12.393	43	2045	0.282	ug/l #	78
50) 1,1,2-Trichloroethane	10.451	97	13390	3.555	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.046	63	768	0.390	ug/l #	60
58) 4-Methyl-2-Pentanone	10.339	43	1961	0.431	ug/l #	70
59) 2-Hexanone	11.092	43	3959	1.153	ug/l #	40
77) t-1,4-Dichloro-2-butene	12.734	75	61267	35.711	ug/l #	8
83) 1,3-Dichlorobenzene	13.619	146	1524	0.219	ug/l	95
84) 1,4-Dichlorobenzene	13.699	146	2007	0.297	ug/l	87
85) n-Butylbenzene	13.946	91	2711	0.223	ug/l	96
87) 1,2-Dichlorobenzene	13.997	146	1448	0.218	ug/l	94
89) 1,2,4-Trichlorobenzene	15.708	180	2877	0.859	ug/l	99
91) Naphthalene	15.512	128	12122	1.251	ug/l #	79
92) 1,2,3-Trichlorobenzene	15.708	180	2877	0.899	ug/l	97

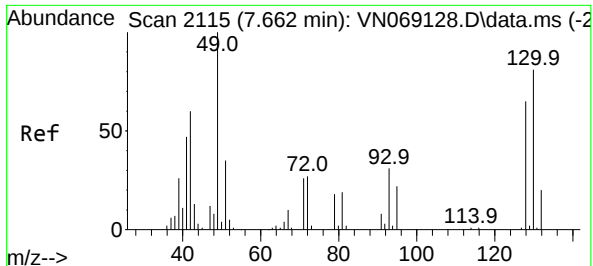
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
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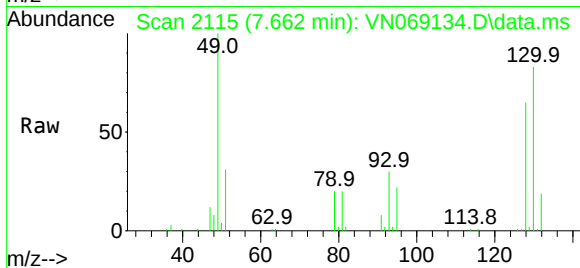
Quant Time: Oct 23 07:54:07 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 22 13:15:19 2021
Response via : Initial Calibration



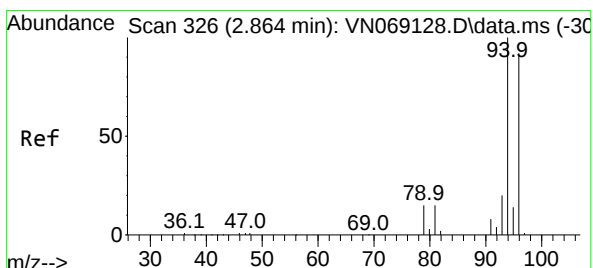
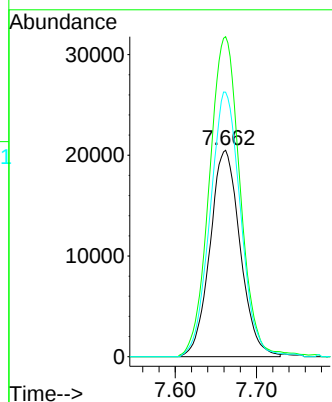
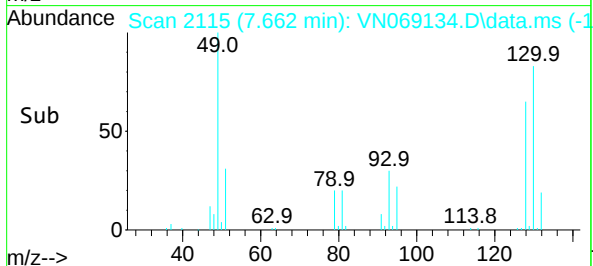


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

Instrument :
MSVOA_N
ClientSampleId :

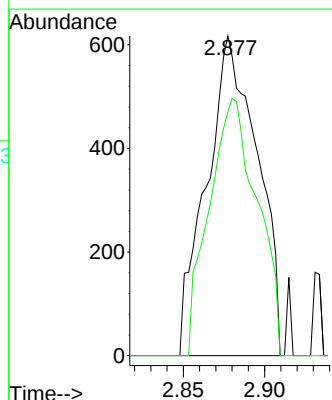
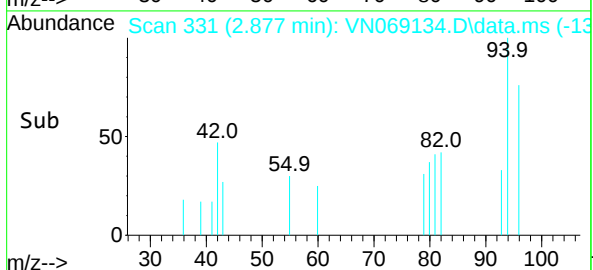
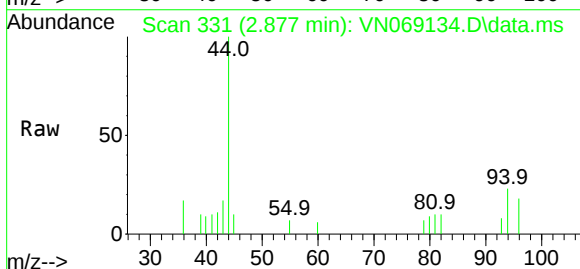


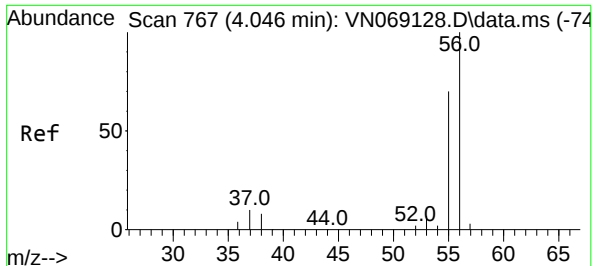
Tgt Ion:128 Resp: 52779
Ion Ratio Lower Upper
128 100
49 157.2 0.0 392.3
130 129.7 0.0 320.2



#5
Bromomethane
Concen: 0.473 ug/l
RT: 2.877 min Scan# 331
Delta R.T. 0.014 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

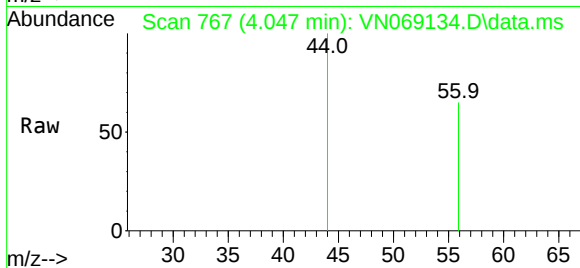
Tgt Ion: 94 Resp: 1343
Ion Ratio Lower Upper
94 100
96 76.3 75.2 112.8



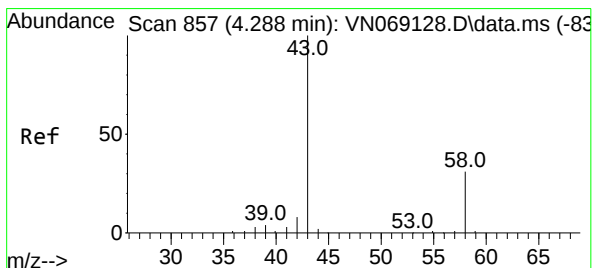
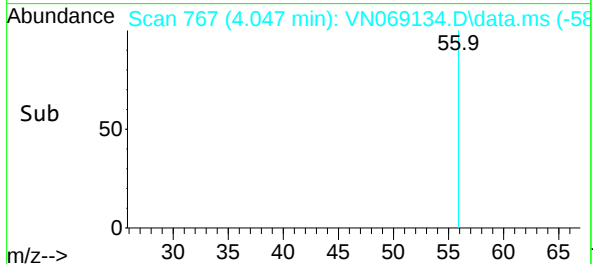
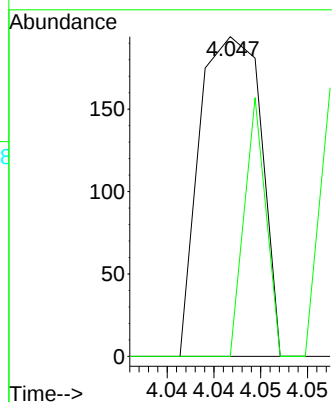


#13
Acrolein
Concen: 0.258 ug/l
RT: 4.047 min Scan# 767
Delta R.T. 0.000 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

Instrument :
MSVOA_N
ClientSampleId :

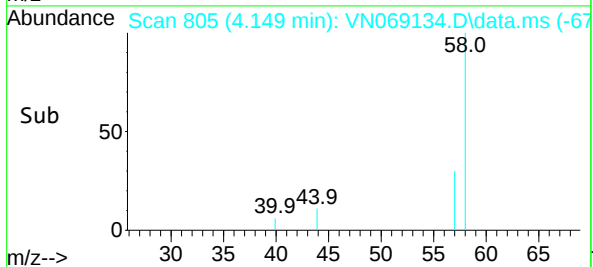
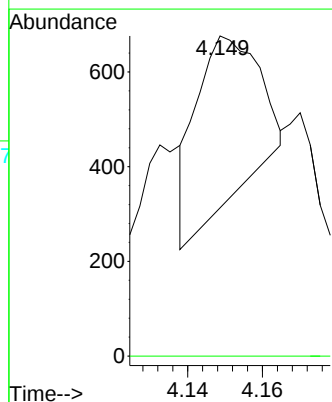
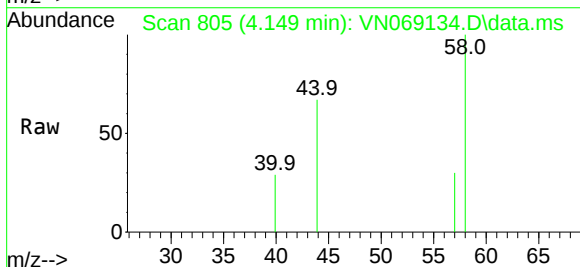


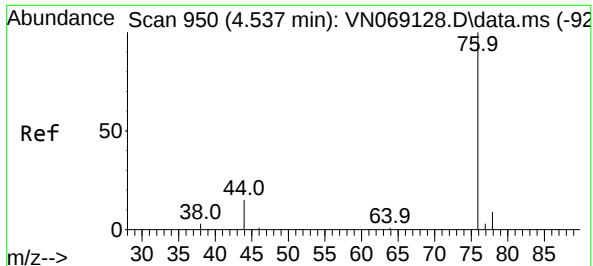
Tgt Ion: 56 Resp: 88
Ion Ratio Lower Upper
56 100
55 90.9 57.6 86.4#



#15
Acetone
Concen: 0.826 ug/l
RT: 4.149 min Scan# 805
Delta R.T. -0.139 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

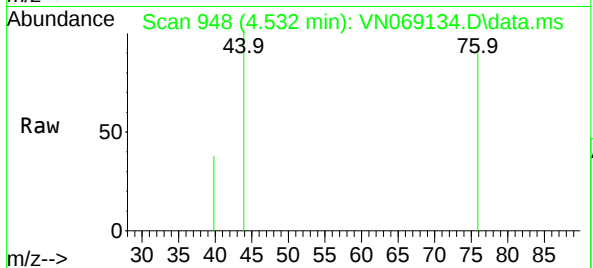
Tgt Ion: 58 Resp: 414
Ion Ratio Lower Upper
58 100
43 0.0 256.6 384.8#



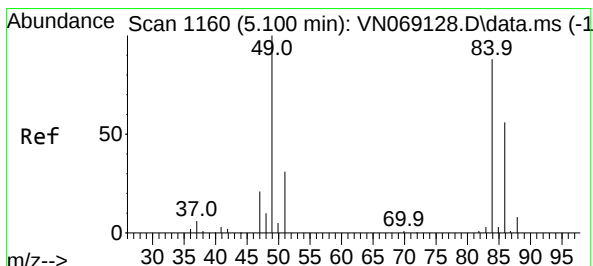
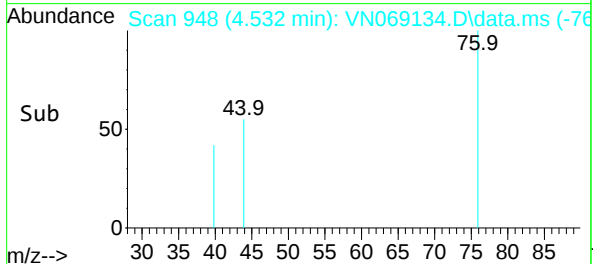
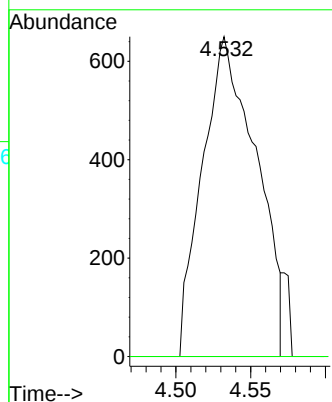


#16
Carbon Disulfide
Concen: 0.204 ug/l
RT: 4.532 min Scan# 94
Delta R.T. -0.005 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

Instrument :
MSVOA_N
ClientSampleId :

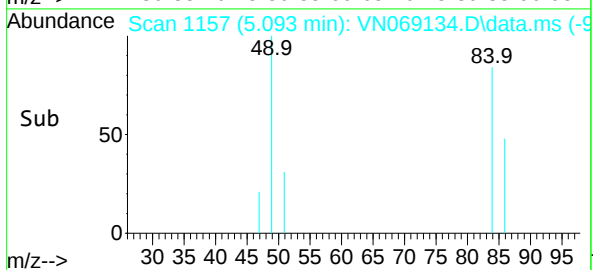
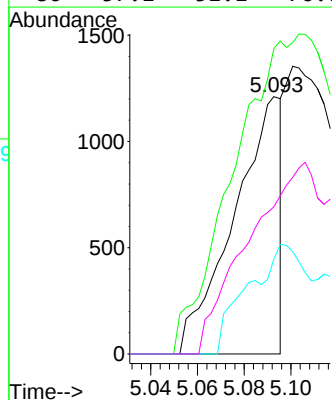
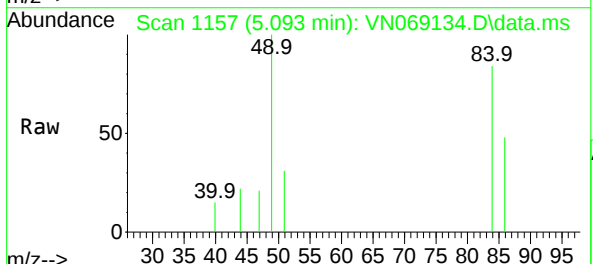


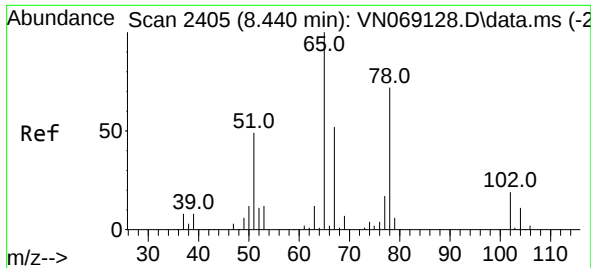
Tgt Ion: 76 Resp: 1625
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.8#



#18
Methylene Chloride
Concen: 0.482 ug/l
RT: 5.093 min Scan# 1157
Delta R.T. -0.008 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

Tgt Ion: 84 Resp: 1700
Ion Ratio Lower Upper
84 100
49 103.1 91.4 137.0
51 36.7 29.4 44.0
86 57.1 51.1 76.7





#27

1,2-Dichloroethane-d4

Concen: 30.947 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VN069134.D

Acq: 22 Oct 2021 14:33

Instrument :

MSVOA_N

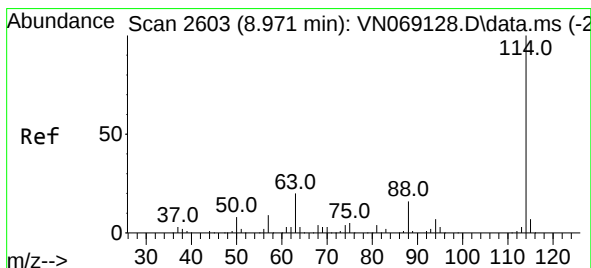
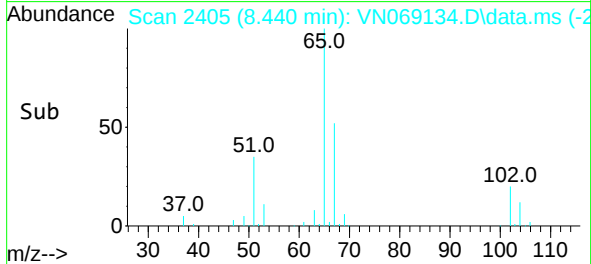
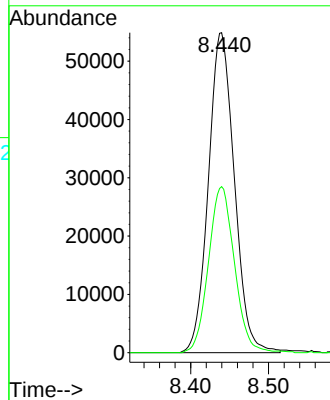
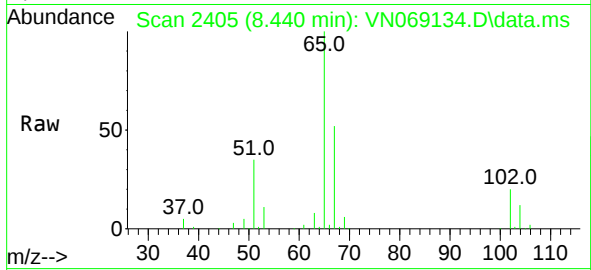
ClientSampleId :

Tgt Ion: 65 Resp: 127222

Ion Ratio Lower Upper

65 100

67 51.8 40.2 60.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. -0.002 min

Lab File: VN069134.D

Acq: 22 Oct 2021 14:33

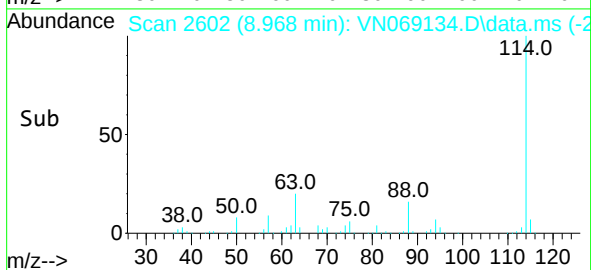
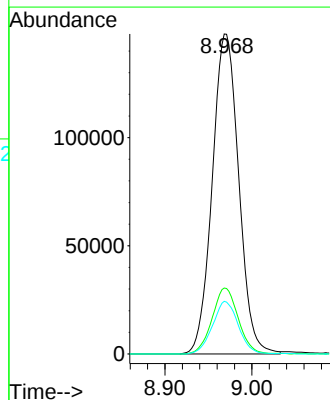
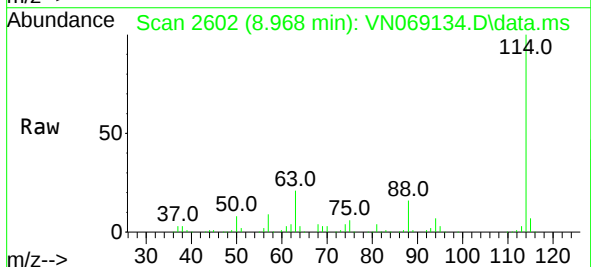
Tgt Ion: 114 Resp: 313270

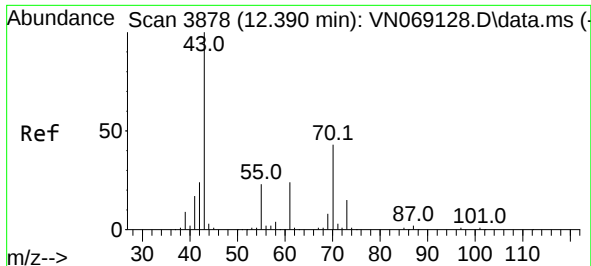
Ion Ratio Lower Upper

114 100

63 20.3 15.8 23.6

88 16.0 11.6 17.4

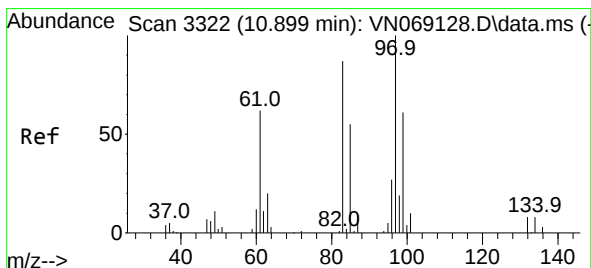
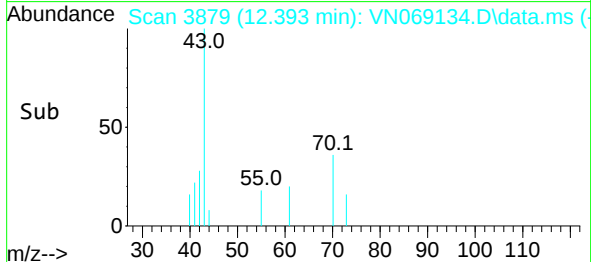
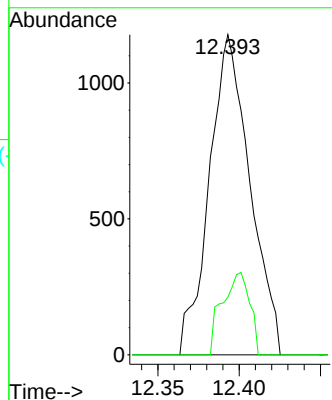
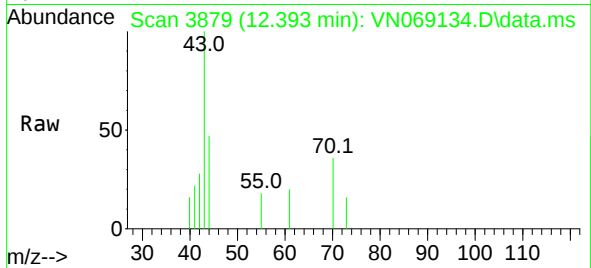




#47
n-amyl acetate
Concen: 0.282 ug/l
RT: 12.393 min Scan# 3155
Delta R.T. 0.003 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

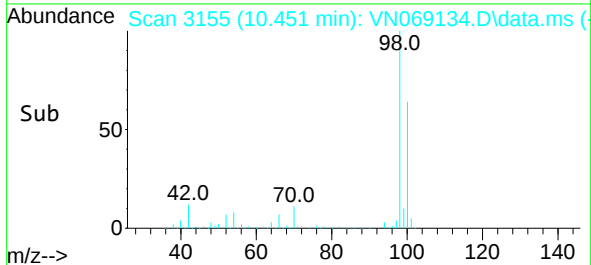
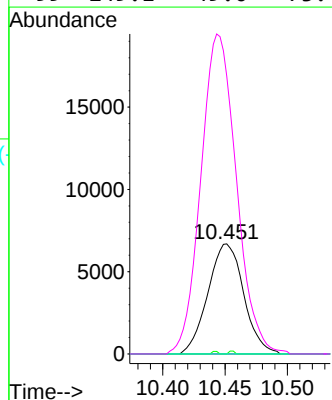
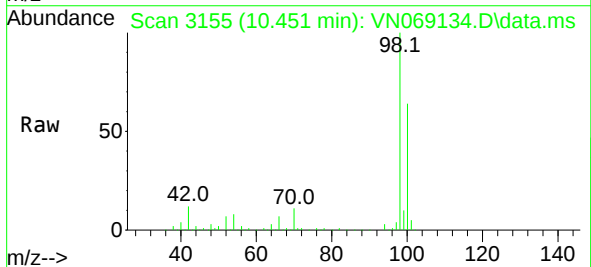
Instrument :
MSVOA_N
ClientSampleId :

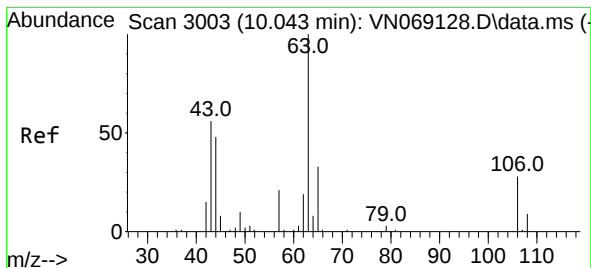
Tgt Ion: 43 Resp: 2045
Ion Ratio Lower Upper
43 100
55 13.1 19.0 28.6#



#50
1,1,2-Trichloroethane
Concen: 3.555 ug/l
RT: 10.451 min Scan# 3155
Delta R.T. -0.448 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

Tgt Ion: 97 Resp: 13390
Ion Ratio Lower Upper
97 100
83 0.0 67.2 100.8#
85 0.0 43.0 64.4#
99 249.1 49.0 73.4#

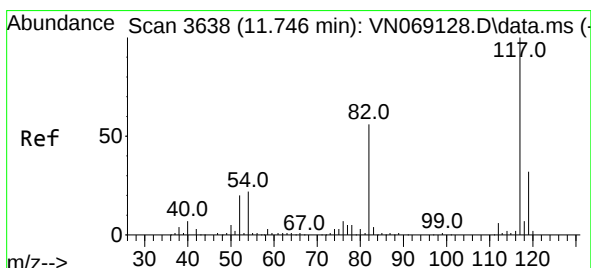
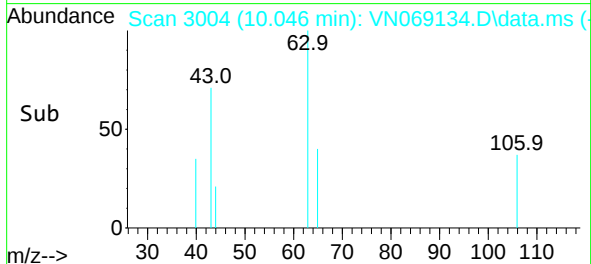
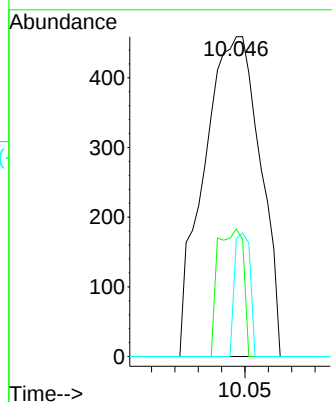
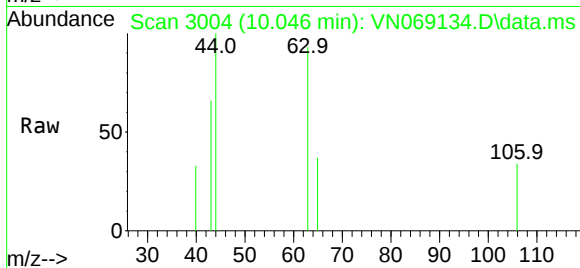




#55
2-Chloroethyl vinyl ether
Concen: 0.390 ug/l
RT: 10.046 min Scan# 3003
Delta R.T. 0.003 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

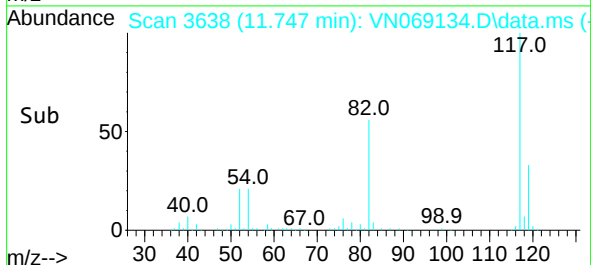
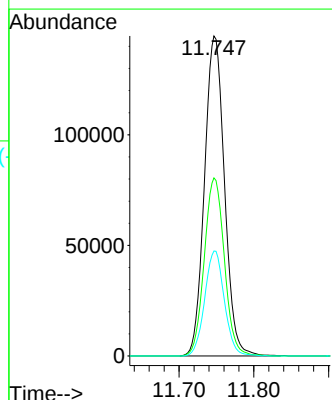
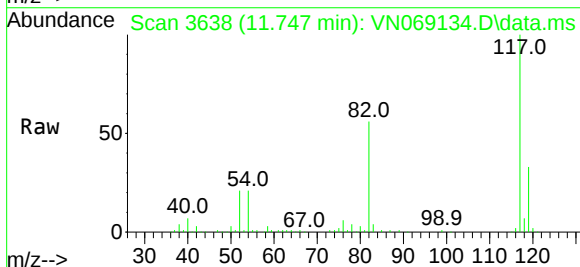
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MSVOA_N
ClientSampleId :

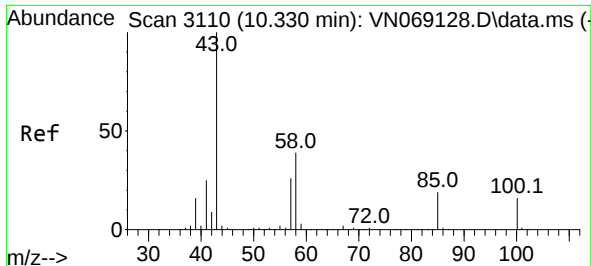
Tgt Ion: 63 Resp: 768
Ion Ratio Lower Upper
63 100
65 7.0 25.4 38.0#
106 10.7 23.2 34.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

Tgt Ion: 117 Resp: 269451
Ion Ratio Lower Upper
117 100
82 55.9 43.6 65.4
119 32.2 25.8 38.6

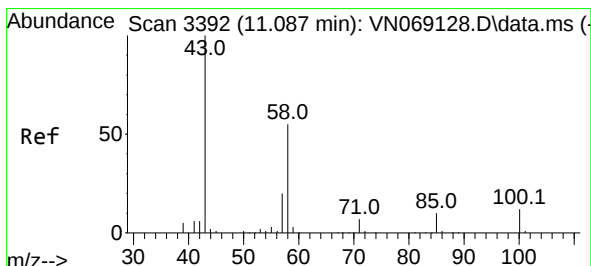
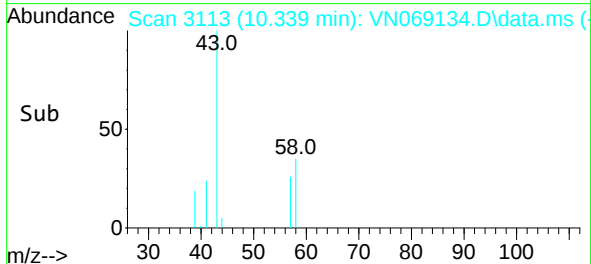
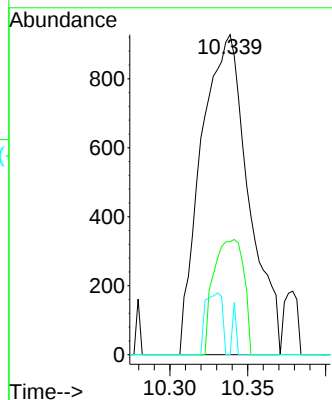
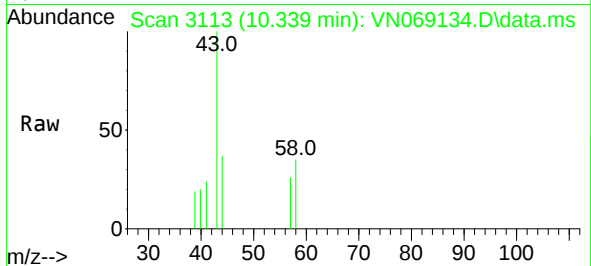




#58
4-Methyl-2-Pentanone
Concen: 0.431 ug/l
RT: 10.339 min Scan# 3113
Delta R.T. 0.008 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

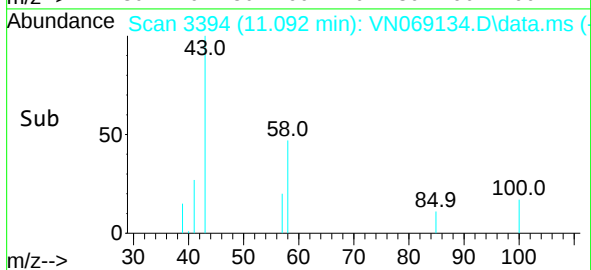
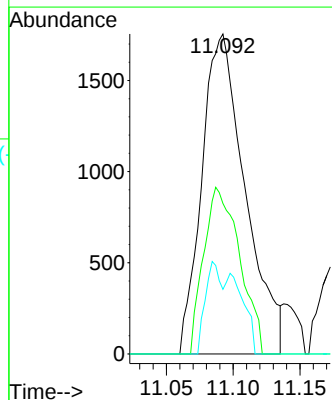
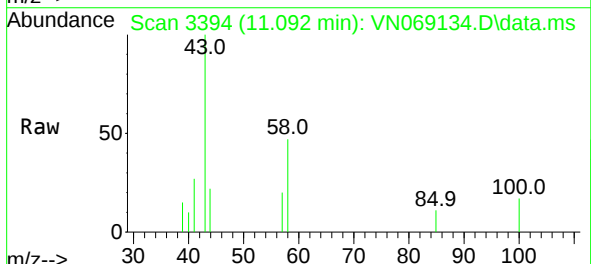
Instrument :
MSVOA_N
ClientSampleId :

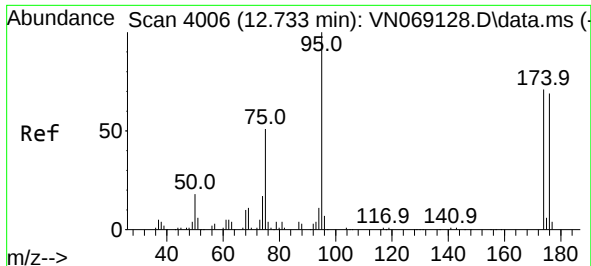
Tgt Ion: 43 Resp: 1961
Ion Ratio Lower Upper
43 100
58 22.8 30.0 45.0#
85 0.0 15.0 22.6#



#59
2-Hexanone
Concen: 1.153 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.006 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

Tgt Ion: 43 Resp: 3959
Ion Ratio Lower Upper
43 100
58 0.0 42.2 63.2#
57 10.8 15.0 22.4#

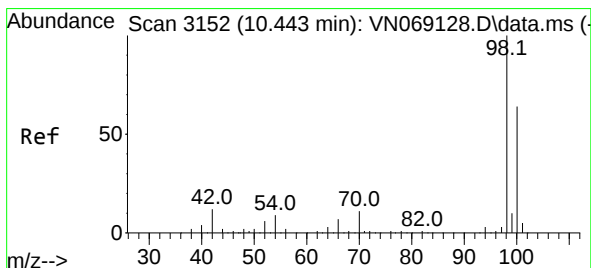
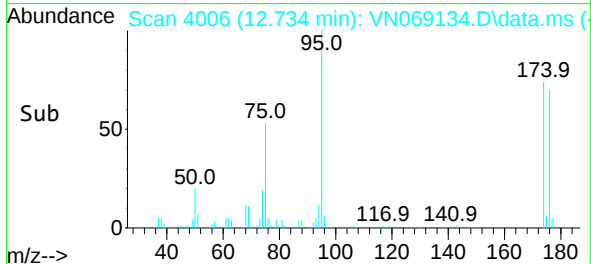
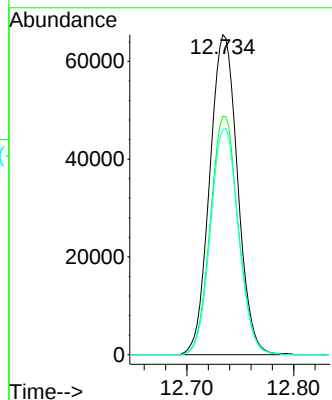
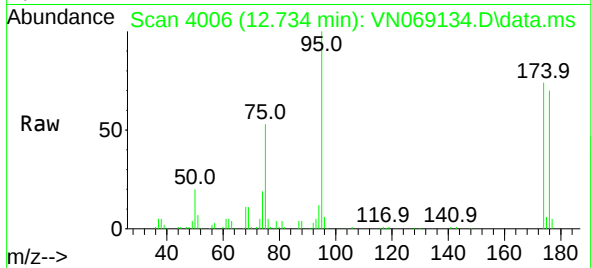




#60
4-Bromofluorobenzene
Concen: 25.689 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

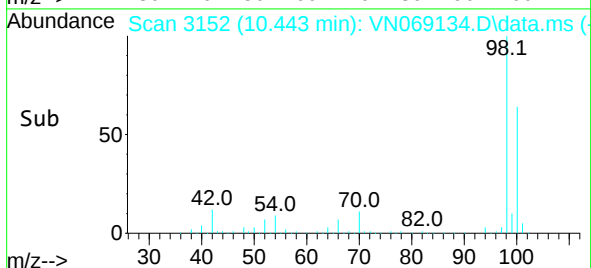
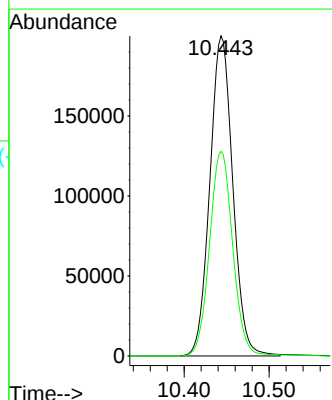
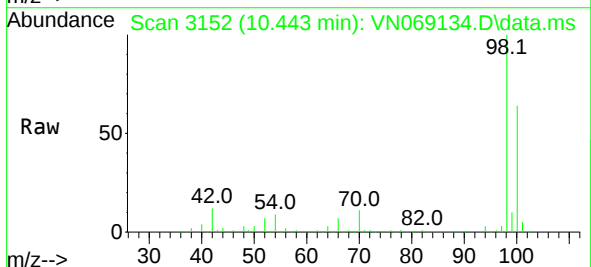
Instrument :
MSVOA_N
ClientSampleId :

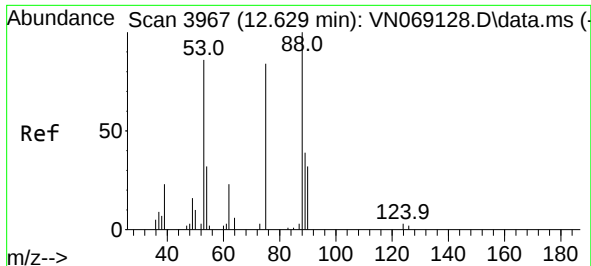
Tgt Ion: 95 Resp: 118687
Ion Ratio Lower Upper
95 100
174 74.8 62.9 94.3
176 71.2 61.0 91.4



#63
Toluene-d8
Concen: 30.831 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

Tgt Ion: 98 Resp: 375336
Ion Ratio Lower Upper
98 100
100 64.3 50.6 76.0





#77

t-1,4-Dichloro-2-butene

Concen: 35.711 ug/l

RT: 12.734 min Scan# 4006

Delta R.T. 0.105 min

Lab File: VN069134.D

Acq: 22 Oct 2021 14:33

Instrument :

MSVOA_N

ClientSampleId :

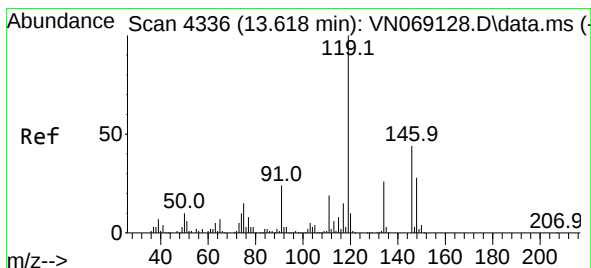
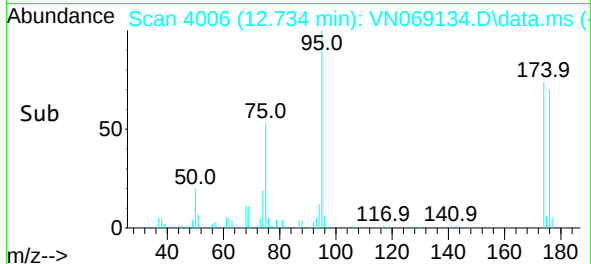
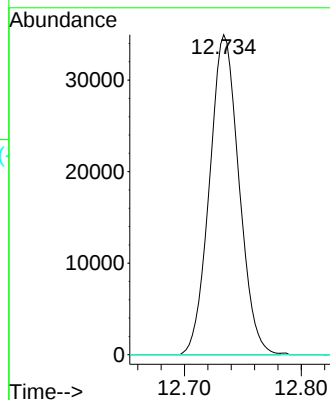
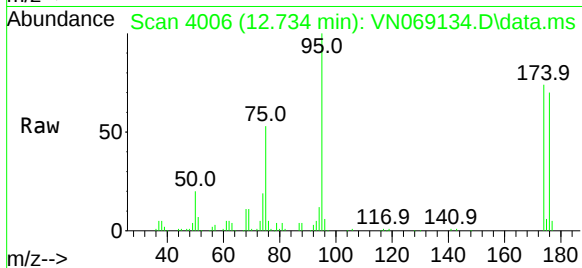
Tgt Ion: 75 Resp: 61267

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: 0.219 ug/l

RT: 13.619 min Scan# 4336

Delta R.T. 0.000 min

Lab File: VN069134.D

Acq: 22 Oct 2021 14:33

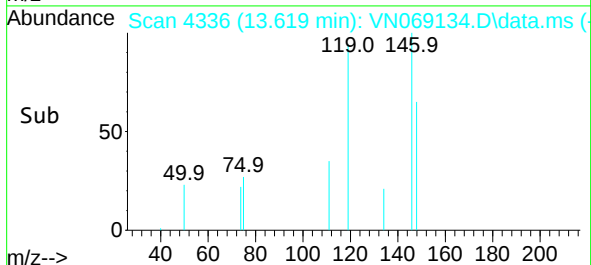
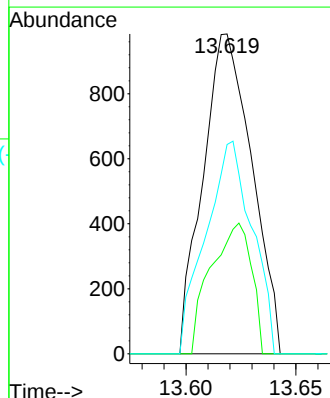
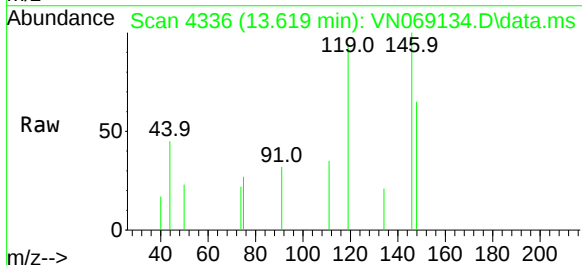
Tgt Ion: 146 Resp: 1524

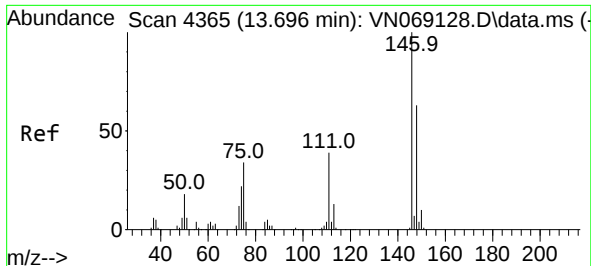
Ion Ratio Lower Upper

146 100

111 33.9 20.8 62.2

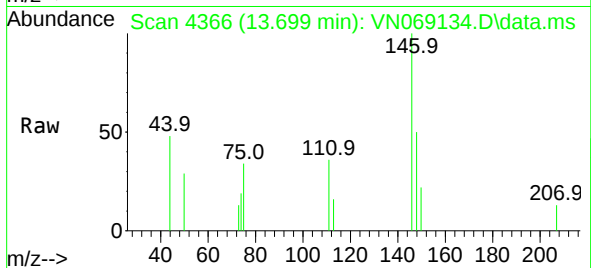
148 63.0 31.4 94.3



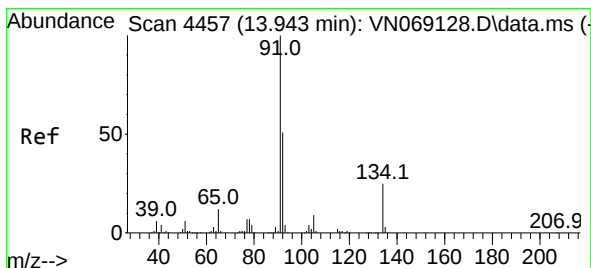
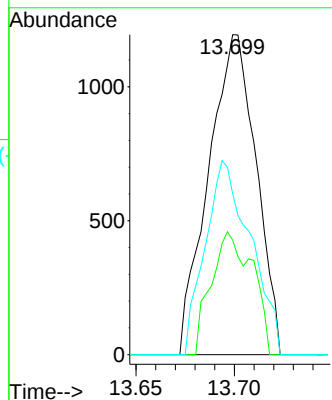
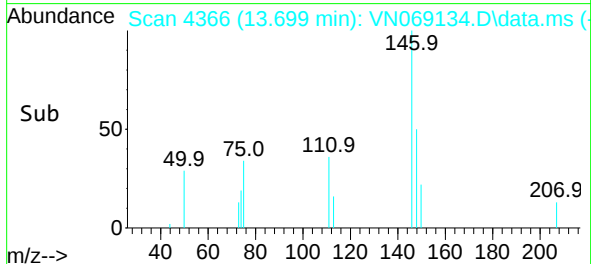


#84
1,4-Dichlorobenzene
Concen: 0.297 ug/l
RT: 13.699 min Scan# 41
Delta R.T. 0.003 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

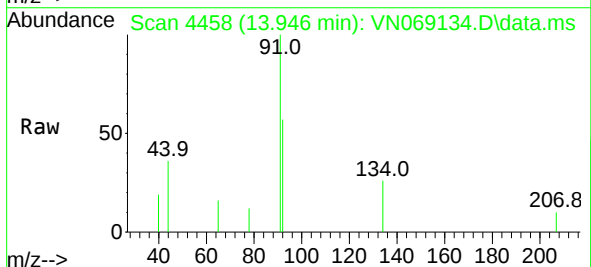
Instrument :
MSVOA_N
ClientSampleId :



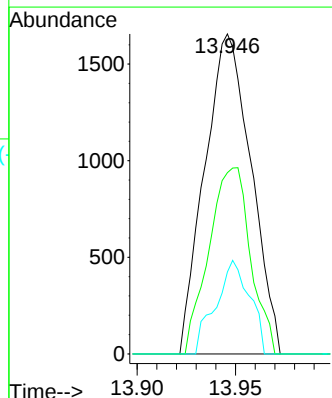
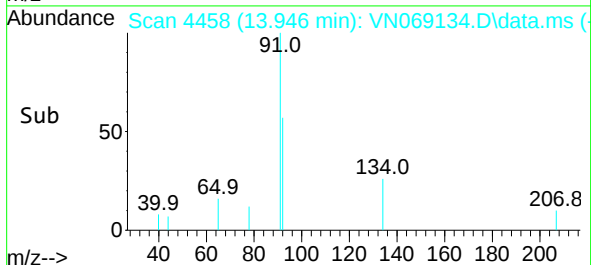
Tgt Ion:146 Resp: 2007
Ion Ratio Lower Upper
146 100
111 24.1 19.5 58.5
148 57.6 31.1 93.5

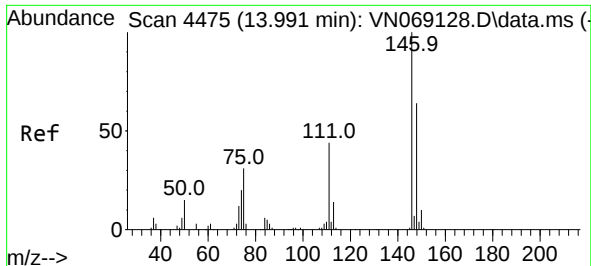


#85
n-Butylbenzene
Concen: 0.223 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. 0.003 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33



Tgt Ion: 91 Resp: 2711
Ion Ratio Lower Upper
91 100
92 52.2 0.0 100.6
134 21.4 0.0 50.2





#87

1,2-Dichlorobenzene

Concen: 0.218 ug/l

RT: 13.997 min Scan# 4475

Delta R.T. 0.006 min

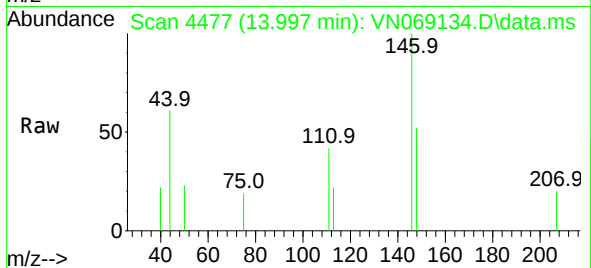
Lab File: VN069134.D

Acq: 22 Oct 2021 14:33

Instrument :

MSVOA_N

ClientSampleId :



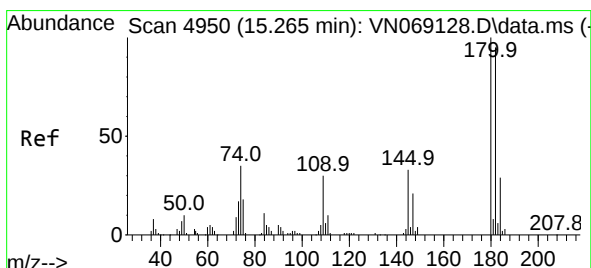
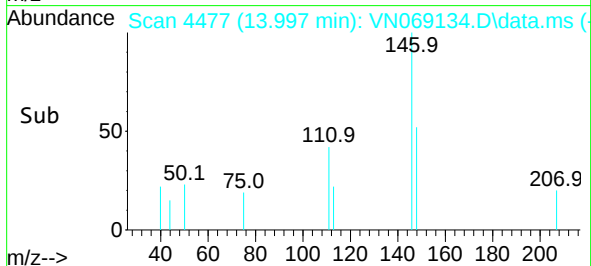
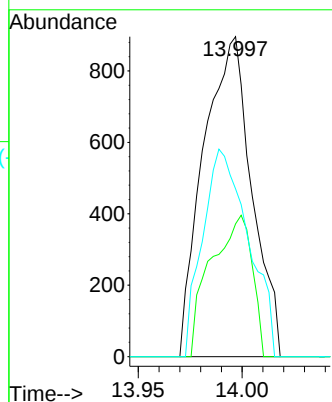
Tgt Ion:146 Resp: 1448

Ion Ratio Lower Upper

146 100

111 37.6 21.4 64.2

148 61.4 32.5 97.4



#89

1,2,4-Trichlorobenzene

Concen: 0.859 ug/l

RT: 15.708 min Scan# 5115

Delta R.T. 0.443 min

Lab File: VN069134.D

Acq: 22 Oct 2021 14:33

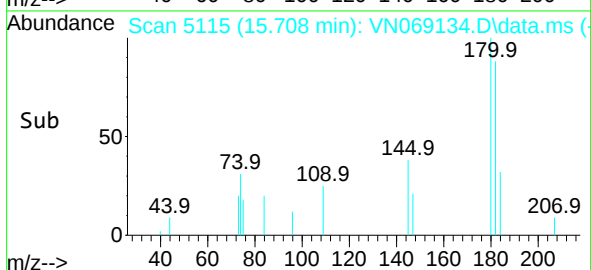
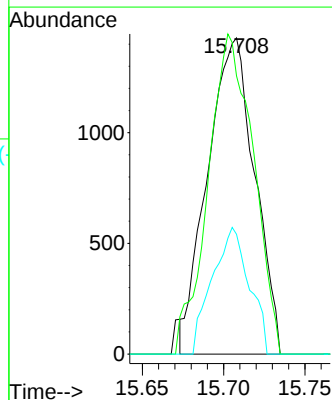
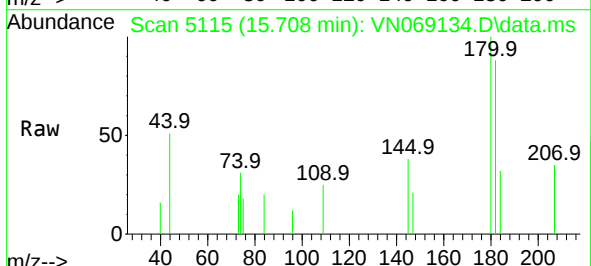
Tgt Ion:180 Resp: 2877

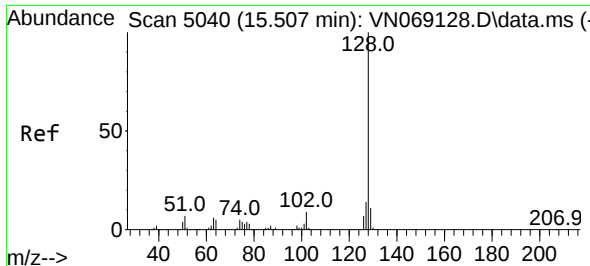
Ion Ratio Lower Upper

180 100

182 97.3 77.7 116.5

145 31.5 26.6 39.8

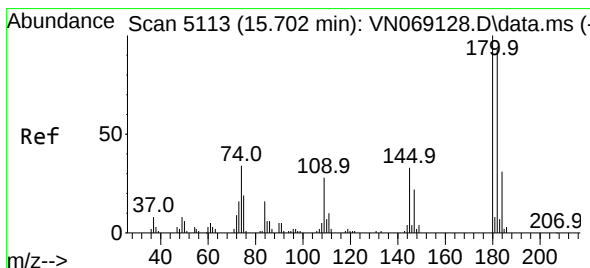
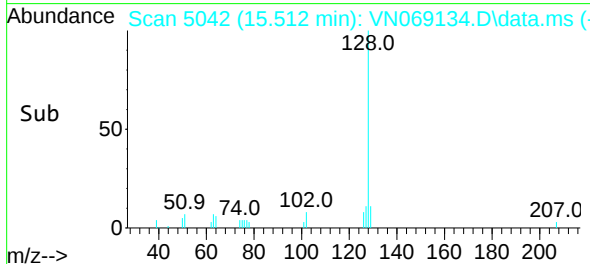
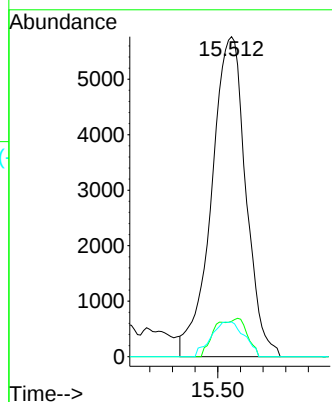
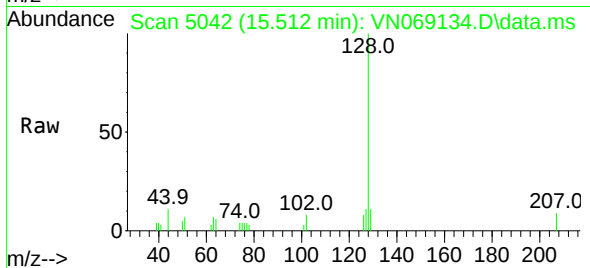




#91
Naphthalene
Concen: 1.251 ug/l
RT: 15.512 min Scan# 5040
Delta R.T. 0.006 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 12122
Ion Ratio Lower Upper
128 100
127 4.8 10.7 16.1#
129 3.3 9.0 13.6#



#92
1,2,3-Trichlorobenzene
Concen: 0.899 ug/l
RT: 15.708 min Scan# 5115
Delta R.T. 0.006 min
Lab File: VN069134.D
Acq: 22 Oct 2021 14:33

Tgt Ion:180 Resp: 2877
Ion Ratio Lower Upper
180 100
182 97.3 0.0 190.0
145 31.5 0.0 67.8

