

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060622\
 Data File : VN072670.D
 Acq On : 06 Jun 2022 18:17
 Operator : JC\MD
 Sample : N3123-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Quant Time: Jun 07 06:29:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N060622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 06 14:10:15 2022
 Response via : Initial Calibration

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

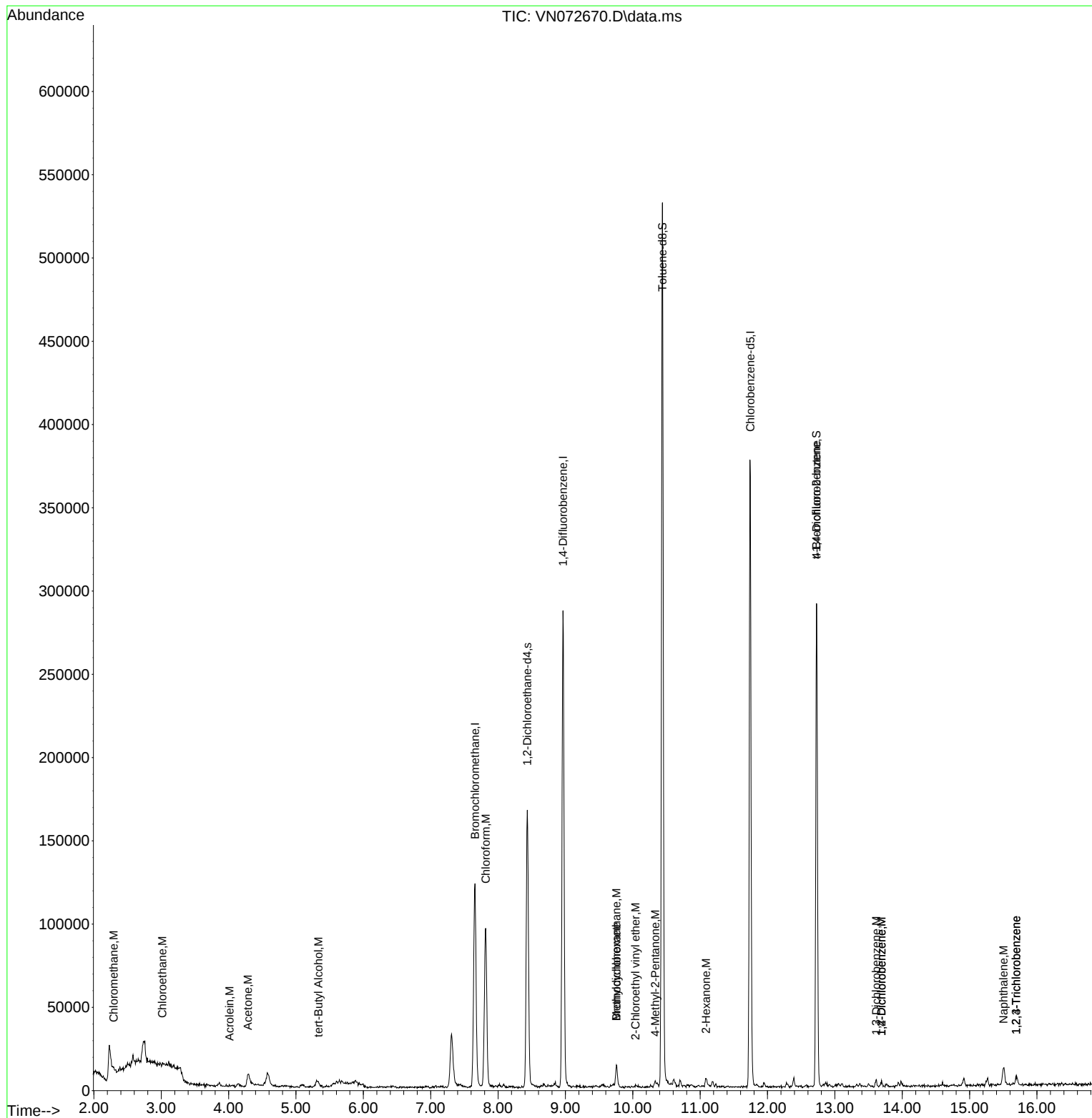
Internal Standards						
1) Bromochloromethane	7.657	128	39439	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	237680	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.745	117	199952	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	140294	31.191	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.967%
60) 4-Bromofluorobenzene	12.727	95	104783	25.479	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.933%
63) Toluene-d8	10.439	98	351430	31.728	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	105.767%
Target Compounds						
					Qvalue	
3) Chloromethane	2.293	50	1110	0.346	ug/l	92
6) Chloroethane	3.016	64	456	0.236	ug/l	96
13) Acrolein	4.016	56	97	0.206	ug/l	95
15) Acetone	4.287	58	2034	3.428	ug/l #	64
23) tert-Butyl Alcohol	5.334	59	1461	1.433	ug/l #	100
25) Chloroform	7.816	83	89761	14.108	ug/l	97
38) Methylcyclohexane	9.757	83	8866	1.639	ug/l #	22
41) Bromodichloromethane	9.757	83	8866	1.640	ug/l #	83
55) 2-Chloroethyl vinyl ether	10.039	63	511	0.202	ug/l #	44
58) 4-Methyl-2-Pentanone	10.333	43	1635	0.273	ug/l #	60
59) 2-Hexanone	11.086	43	4859	1.069	ug/l #	63
77) t-1,4-Dichloro-2-butene	12.727	75	57902	30.727	ug/l #	8
83) 1,3-Dichlorobenzene	13.615	146	1106	0.205	ug/l	79
84) 1,4-Dichlorobenzene	13.692	146	1216	0.233	ug/l	86
87) 1,2-Dichlorobenzene	13.692	146	1216	0.228	ug/l	82
89) 1,2,4-Trichlorobenzene	15.692	180	2500	0.931	ug/l	87
91) Naphthalene	15.504	128	12737	1.188	ug/l	95
92) 1,2,3-Trichlorobenzene	15.692	180	2500	0.915	ug/l	88

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

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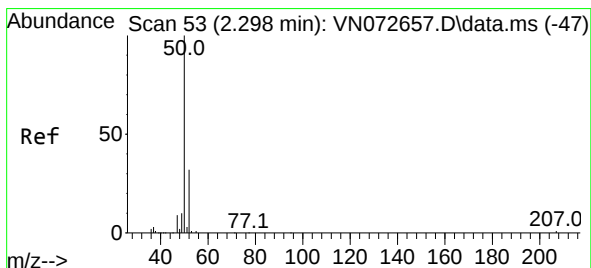
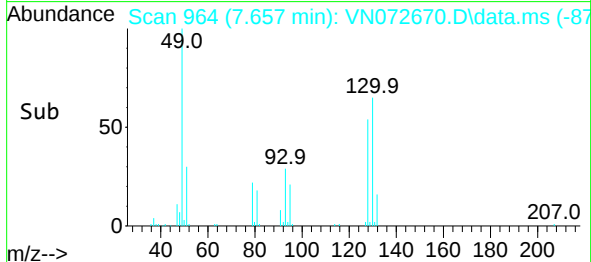
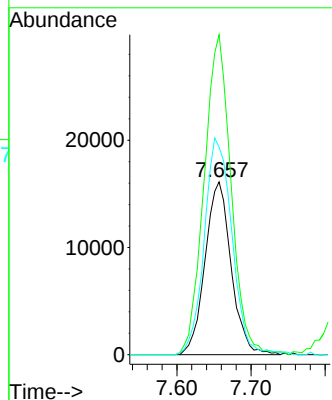
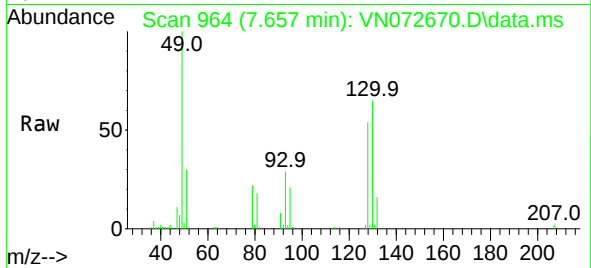




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.657 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

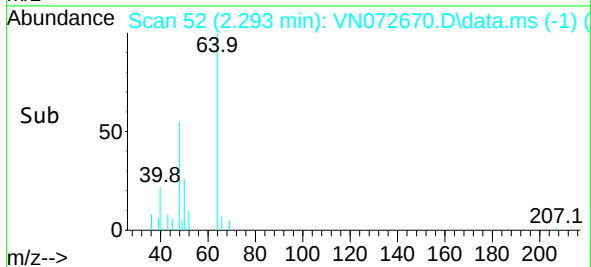
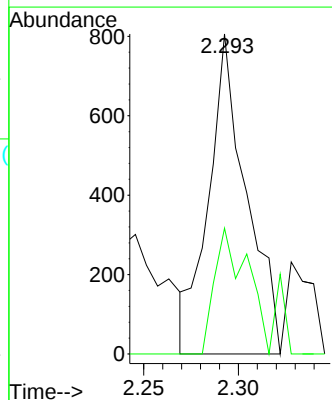
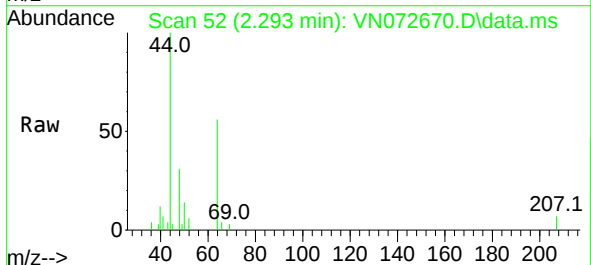
Instrument :
MSVOA_N
ClientSampleId :
14B-1

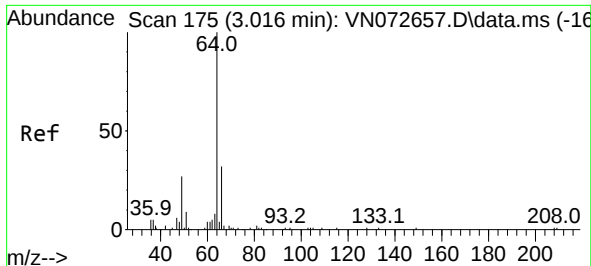
Tgt Ion:128 Resp: 39439
Ion Ratio Lower Upper
128 100
49 190.2 0.0 392.3
130 132.0 0.0 320.2



#3
Chloromethane
Concen: 0.346 ug/l
RT: 2.293 min Scan# 52
Delta R.T. -0.006 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

Tgt Ion: 50 Resp: 1110
Ion Ratio Lower Upper
50 100
52 39.3 27.8 41.6

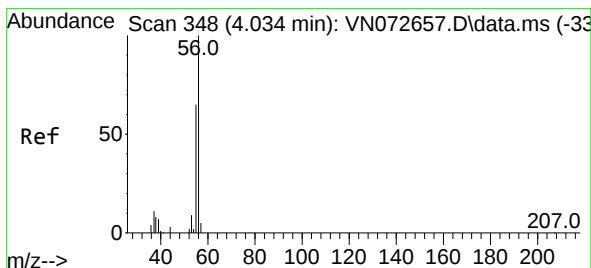
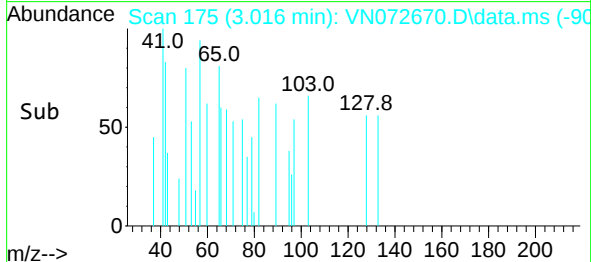
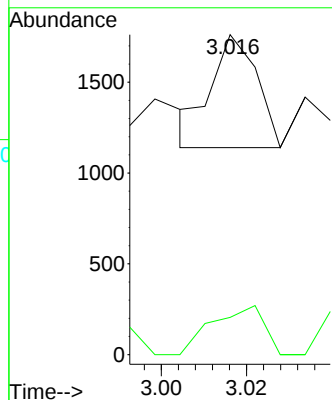
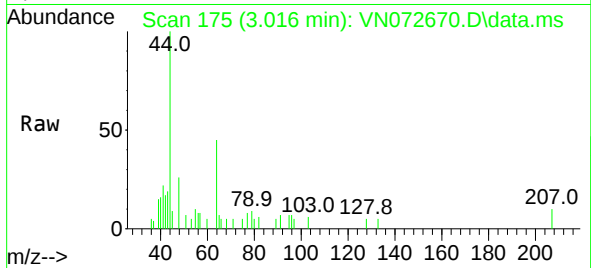




#6
Chloroethane
Concen: 0.236 ug/l
RT: 3.016 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

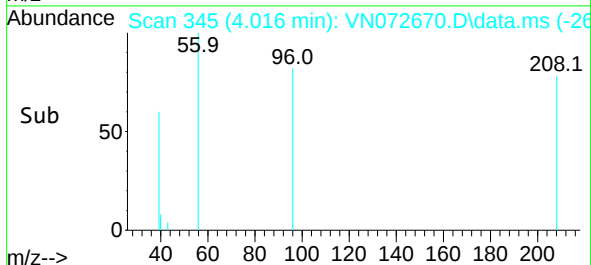
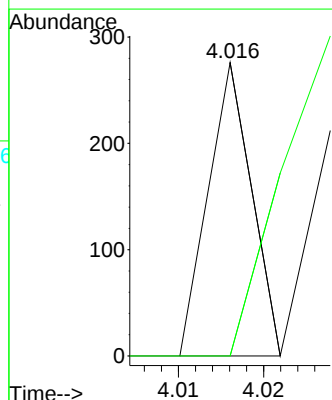
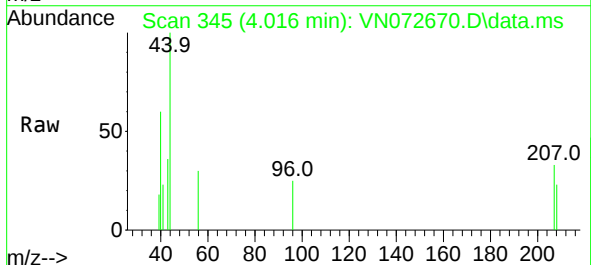
Instrument :
MSVOA_N
ClientSampleId :
14B-1

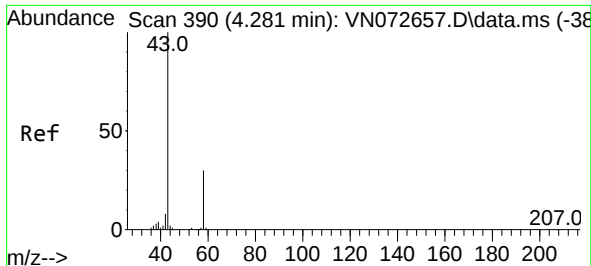
Tgt Ion: 64 Resp: 456
Ion Ratio Lower Upper
64 100
66 33.0 24.6 36.8



#13
Acrolein
Concen: 0.206 ug/l
RT: 4.016 min Scan# 345
Delta R.T. -0.018 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

Tgt Ion: 56 Resp: 97
Ion Ratio Lower Upper
56 100
55 68.0 57.6 86.4

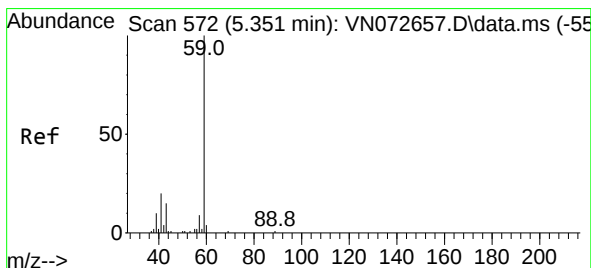
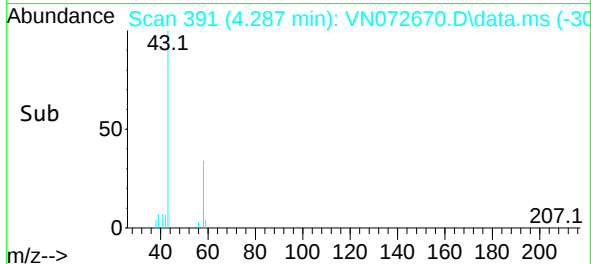
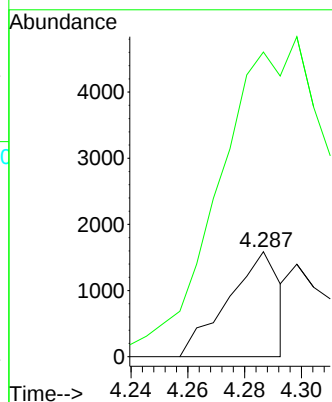
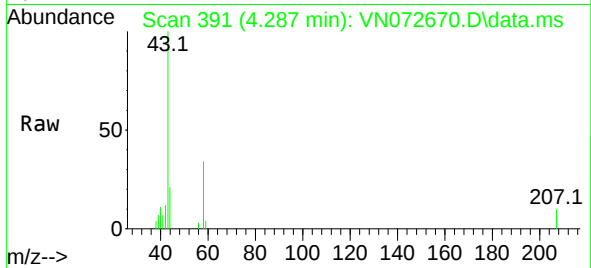




#15
Acetone
Concen: 3.428 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.006 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

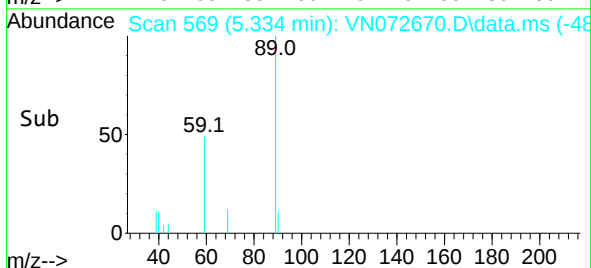
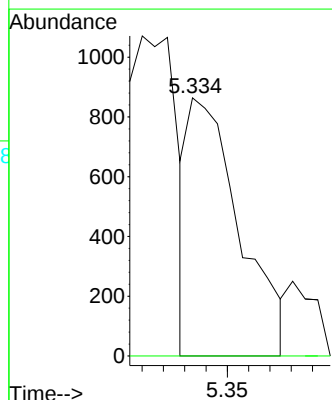
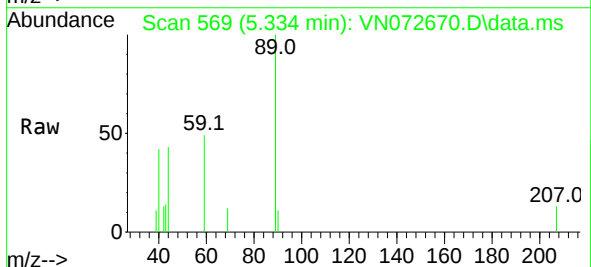
Instrument :
MSVOA_N
ClientSampleId :
14B-1

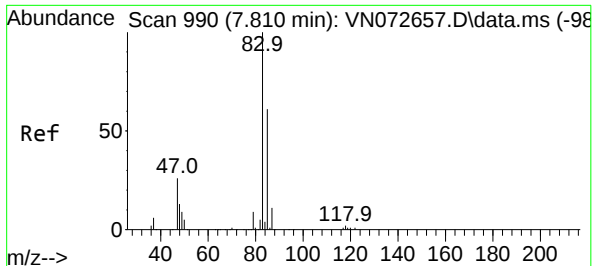
Tgt Ion: 58 Resp: 2034
Ion Ratio Lower Upper
58 100
43 247.0 256.6 384.8#



#23
tert-Butyl Alcohol
Concen: 1.433 ug/l
RT: 5.334 min Scan# 569
Delta R.T. -0.018 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

Tgt Ion: 59 Resp: 1461
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

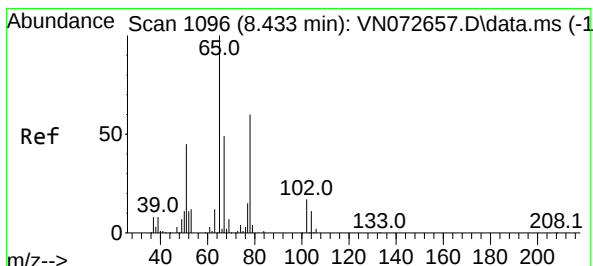
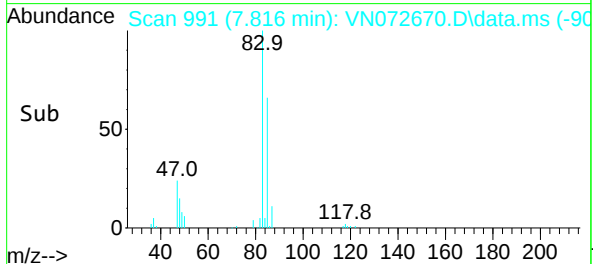
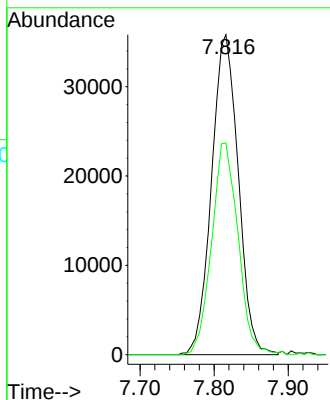
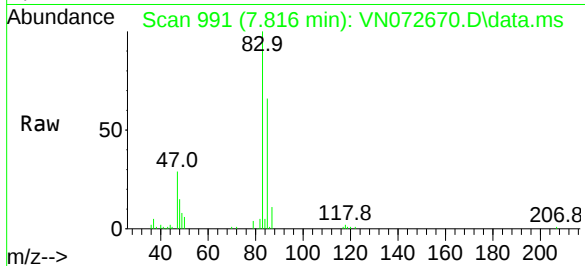




#25
Chloroform
Concen: 14.108 ug/l
RT: 7.816 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

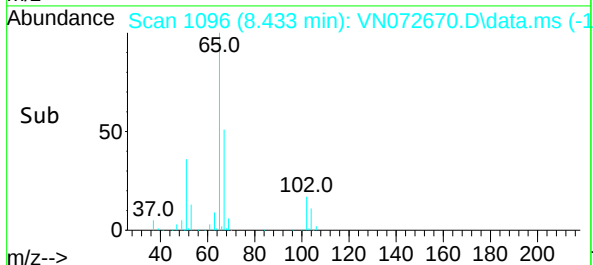
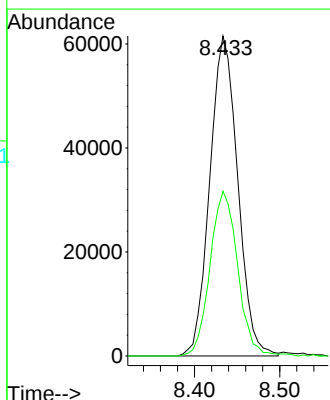
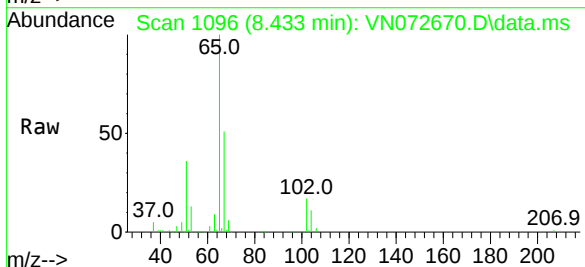
Instrument :
MSVOA_N
ClientSampleId :
14B-1

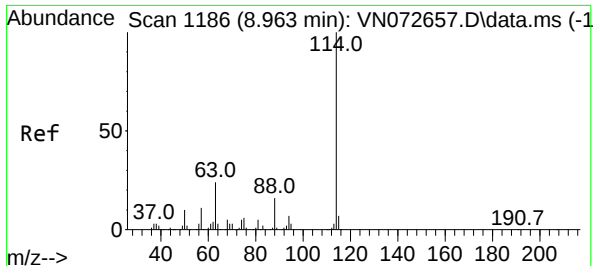
Tgt Ion: 83 Resp: 89761
Ion Ratio Lower Upper
83 100
85 66.2 51.3 76.9



#27
1,2-Dichloroethane-d4
Concen: 31.191 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. 0.000 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

Tgt Ion: 65 Resp: 140294
Ion Ratio Lower Upper
65 100
67 50.7 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: VN072670.D

Acq: 06 Jun 2022 18:17

Instrument :

MSVOA_N

ClientSampleId :

14B-1

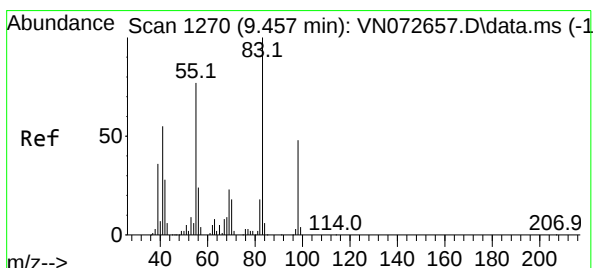
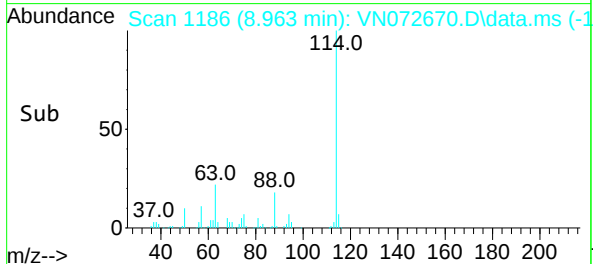
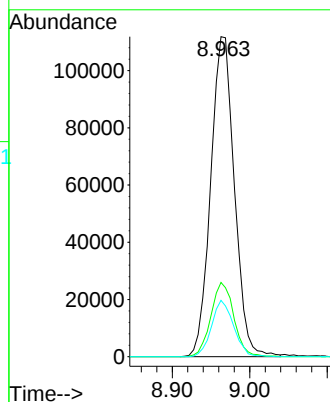
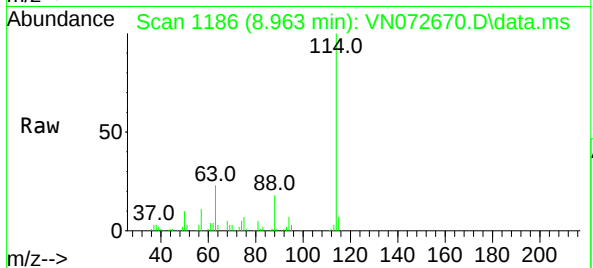
Tgt Ion:114 Resp: 237680

Ion Ratio Lower Upper

114 100

63 22.5 15.8 23.6

88 16.4 11.6 17.4



#38

Methylcyclohexane

Concen: 1.639 ug/l

RT: 9.757 min Scan# 1321

Delta R.T. 0.300 min

Lab File: VN072670.D

Acq: 06 Jun 2022 18:17

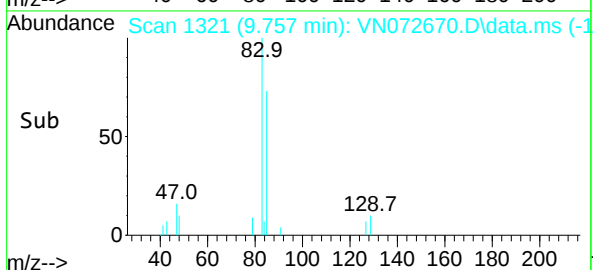
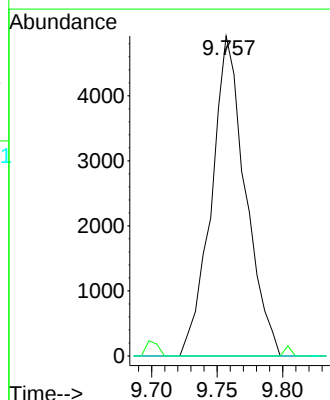
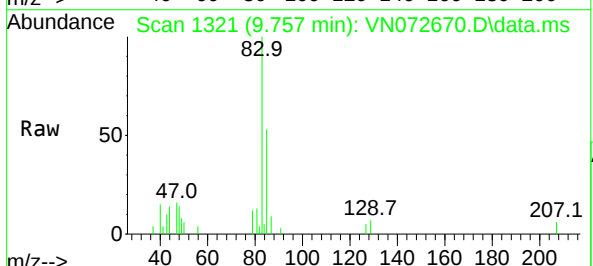
Tgt Ion: 83 Resp: 8866

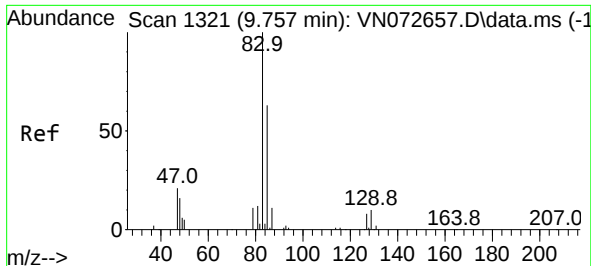
Ion Ratio Lower Upper

83 100

55 1.7 35.1 105.3#

98 0.0 23.4 70.2#

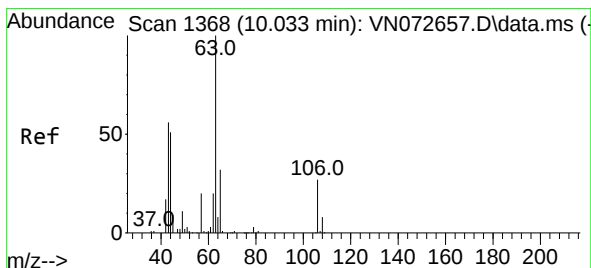
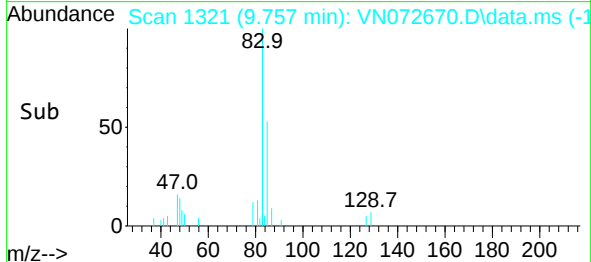
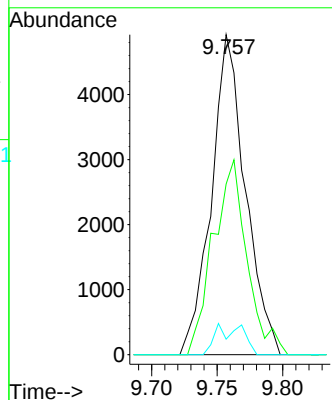
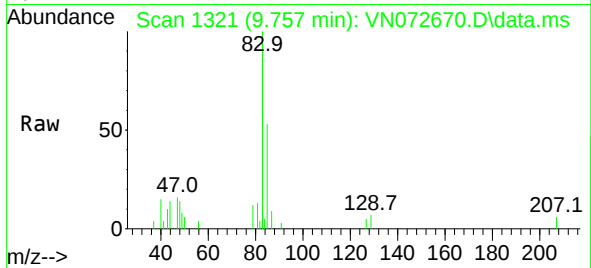




#41
Bromodichloromethane
Concen: 1.640 ug/l
RT: 9.757 min Scan# 1321
Delta R.T. 0.000 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

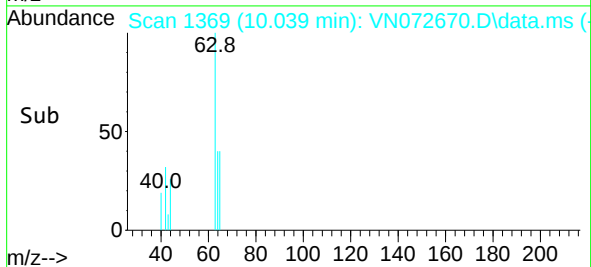
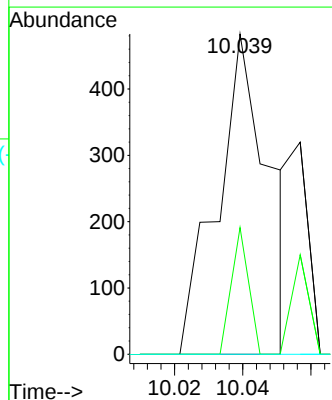
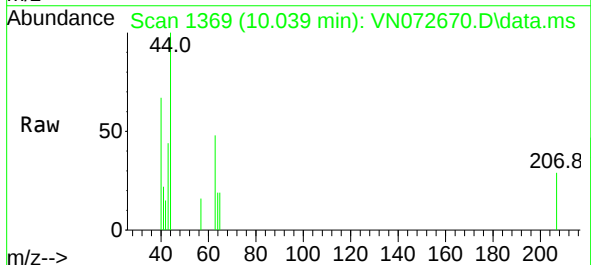
Instrument :
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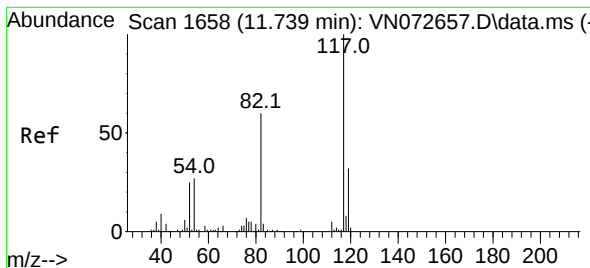
Tgt Ion: 83 Resp: 8866
Ion Ratio Lower Upper
83 100
85 53.3 54.1 81.1#
127 4.9 7.6 11.4#



#55
2-Chloroethyl vinyl ether
Concen: 0.202 ug/l
RT: 10.039 min Scan# 1369
Delta R.T. 0.006 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

Tgt Ion: 63 Resp: 511
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.0#
106 0.0 23.2 34.8#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.745 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN072670.D

Acq: 06 Jun 2022 18:17

Instrument :

MSVOA_N

ClientSampleId :

14B-1

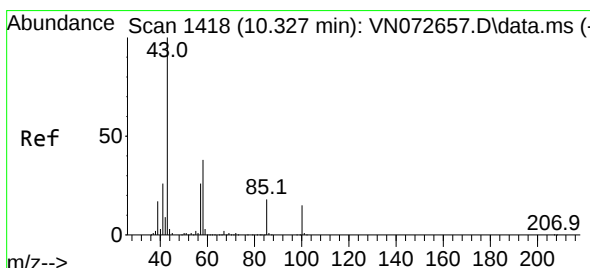
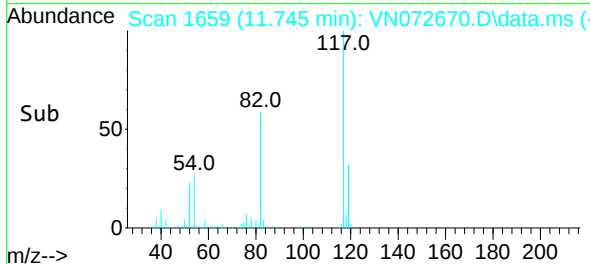
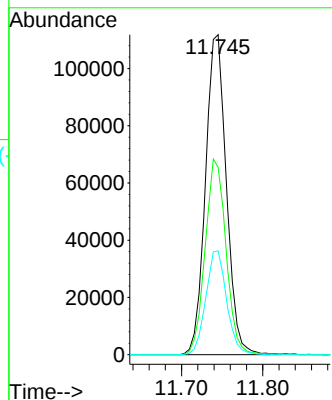
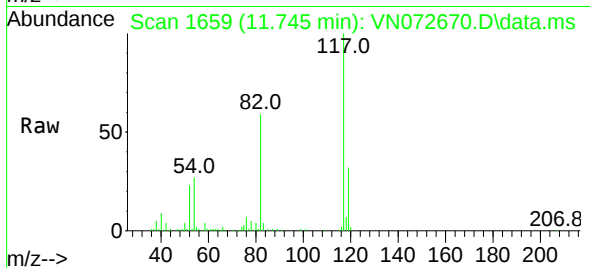
Tgt Ion:117 Resp: 199952

Ion Ratio Lower Upper

117 100

82 61.1 43.6 65.4

119 32.4 25.8 38.6



#58

4-Methyl-2-Pentanone

Concen: 0.273 ug/l

RT: 10.333 min Scan# 1419

Delta R.T. 0.006 min

Lab File: VN072670.D

Acq: 06 Jun 2022 18:17

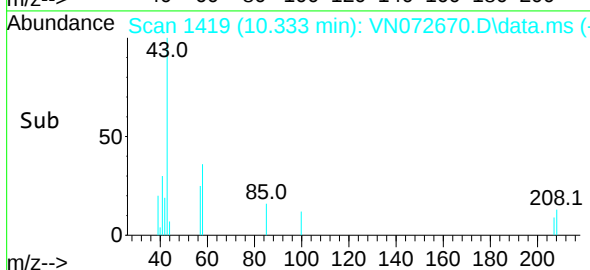
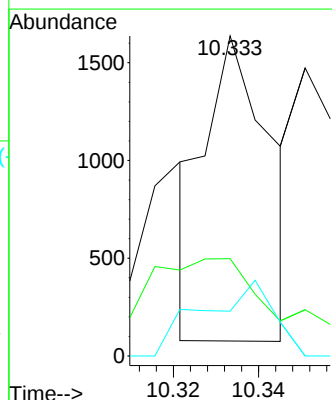
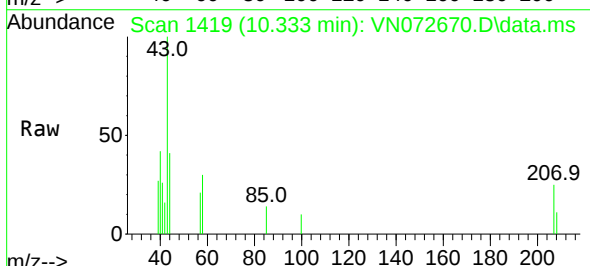
Tgt Ion: 43 Resp: 1635

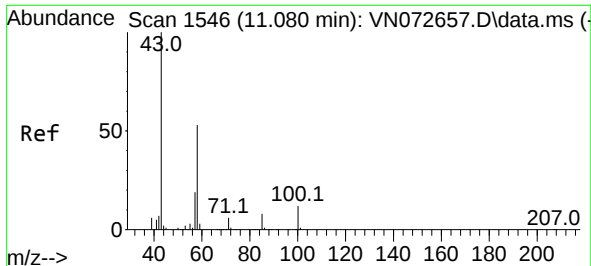
Ion Ratio Lower Upper

43 100

58 68.9 30.0 45.0#

85 12.1 15.0 22.6#

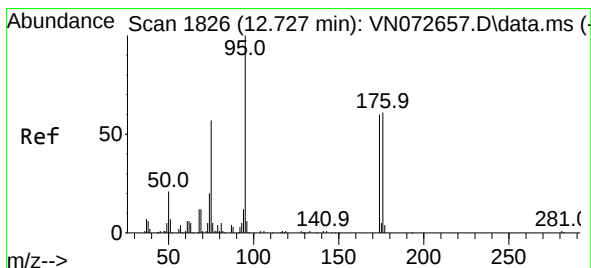
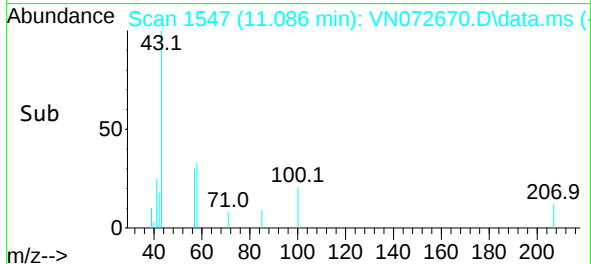
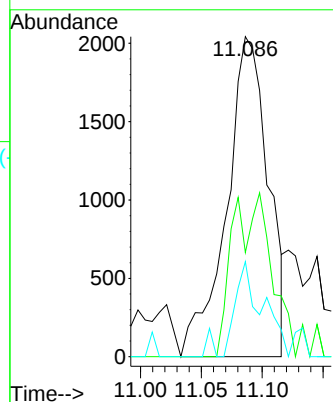
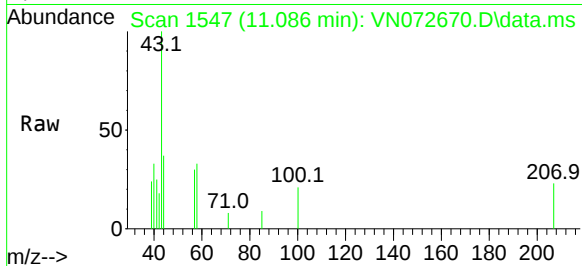




#59
2-Hexanone
Concen: 1.069 ug/l
RT: 11.086 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

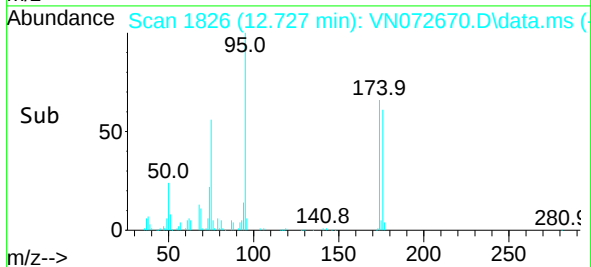
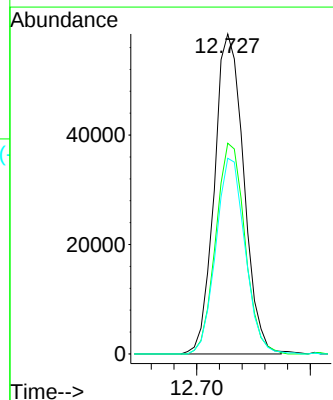
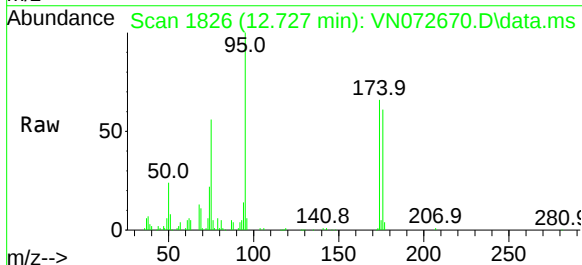
Instrument :
MSVOA_N
ClientSampleId :
14B-1

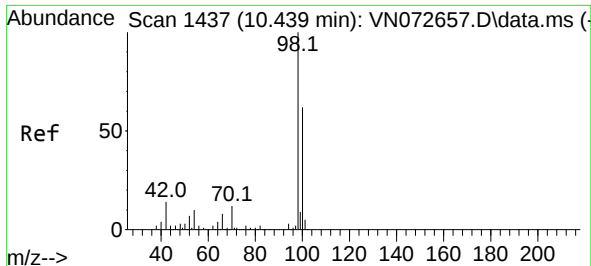
Tgt Ion: 43 Resp: 4859
Ion Ratio Lower Upper
43 100
58 20.3 42.2 63.2#
57 13.4 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 25.479 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

Tgt Ion: 95 Resp: 104783
Ion Ratio Lower Upper
95 100
174 65.4 62.9 94.3
176 61.0 61.0 91.4

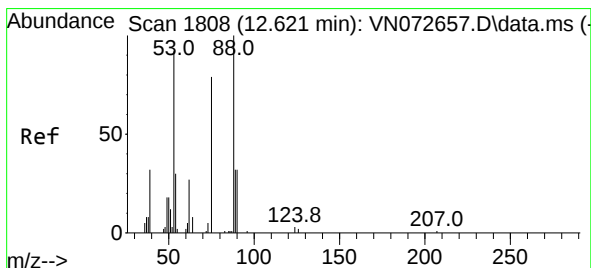
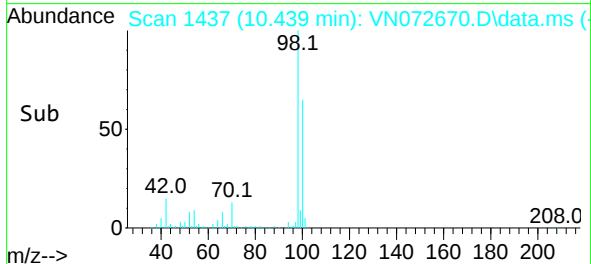
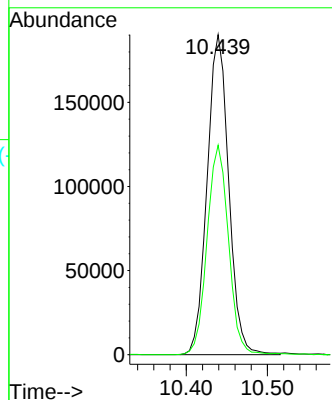
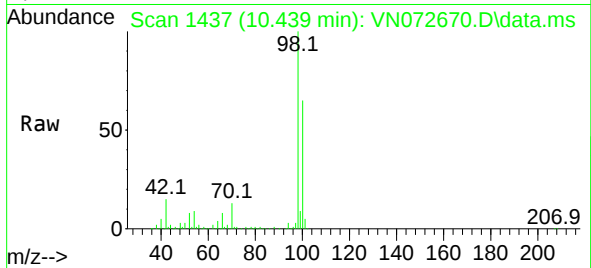




#63
Toluene-d8
Concen: 31.728 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

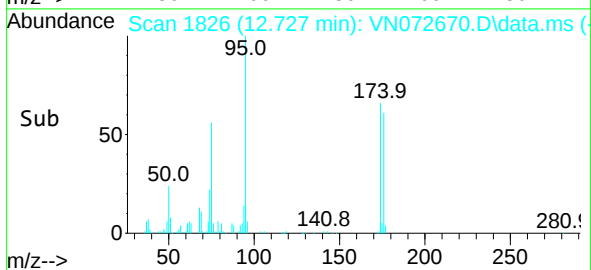
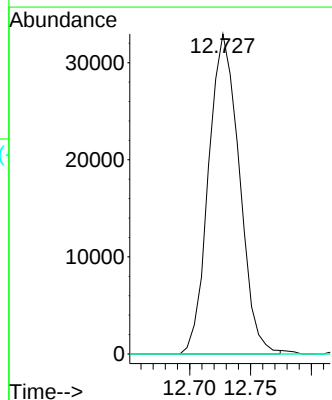
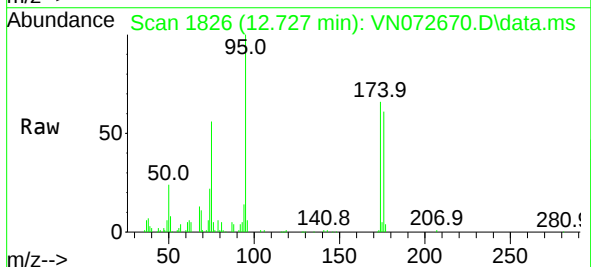
Instrument :
MSVOA_N
ClientSampleId :
14B-1

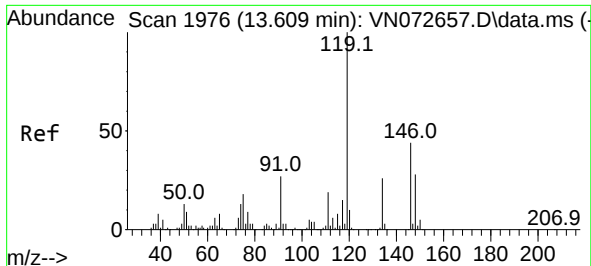
Tgt Ion: 98 Resp: 351430
Ion Ratio Lower Upper
98 100
100 64.7 50.6 76.0



#77
t-1,4-Dichloro-2-butene
Concen: 30.727 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN072670.D
Acq: 06 Jun 2022 18:17

Tgt Ion: 75 Resp: 57902
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#

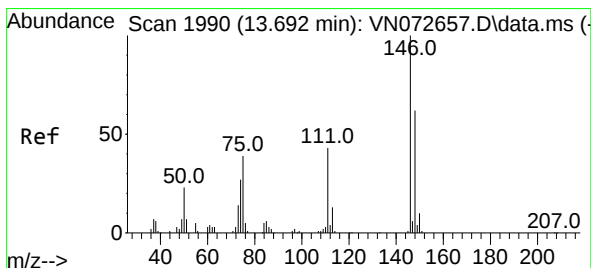
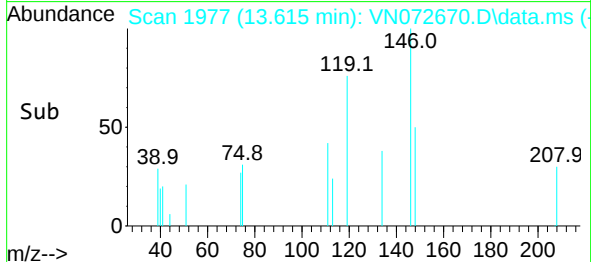
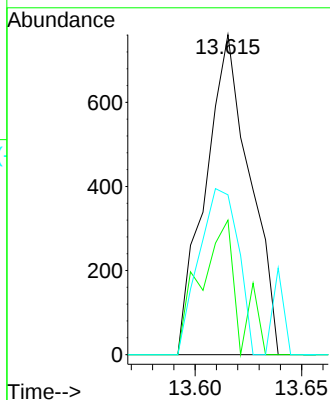
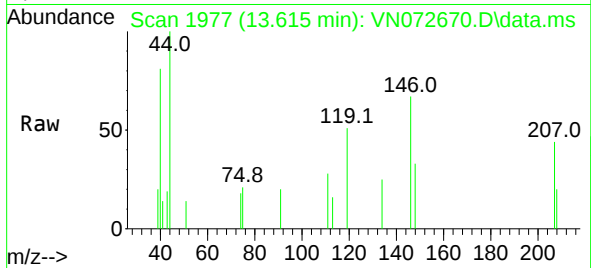




#83
 1,3-Dichlorobenzene
 Concen: 0.205 ug/l
 RT: 13.615 min Scan# 1977
 Delta R.T. 0.006 min
 Lab File: VN072670.D
 Acq: 06 Jun 2022 18:17

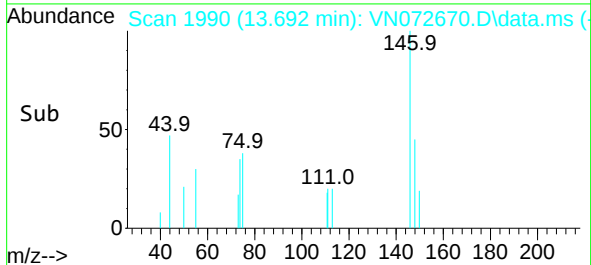
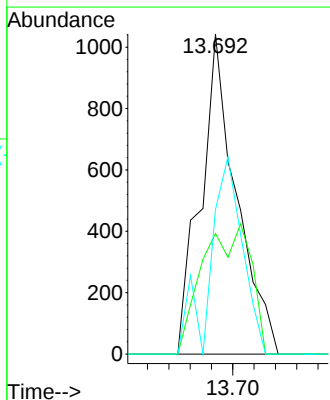
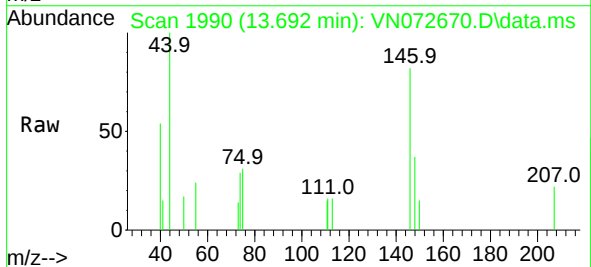
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

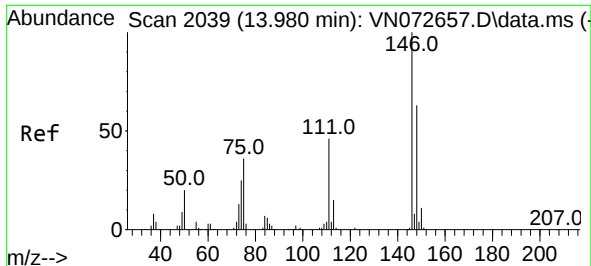
Tgt Ion:146 Resp: 1106
 Ion Ratio Lower Upper
 146 100
 111 29.8 20.8 62.2
 148 45.9 31.4 94.3



#84
 1,4-Dichlorobenzene
 Concen: 0.233 ug/l
 RT: 13.692 min Scan# 1990
 Delta R.T. 0.000 min
 Lab File: VN072670.D
 Acq: 06 Jun 2022 18:17

Tgt Ion:146 Resp: 1216
 Ion Ratio Lower Upper
 146 100
 111 34.2 19.5 58.5
 148 48.3 31.1 93.5





#87

1,2-Dichlorobenzene

Concen: 0.228 ug/l

RT: 13.692 min Scan# 11

Delta R.T. -0.288 min

Lab File: VN072670.D

Acq: 06 Jun 2022 18:17

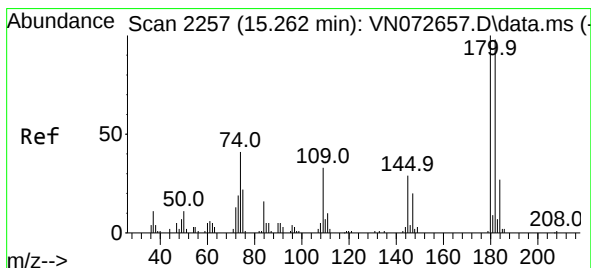
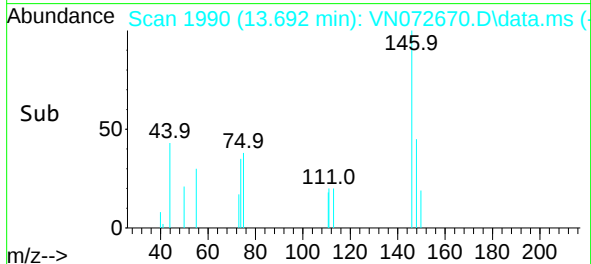
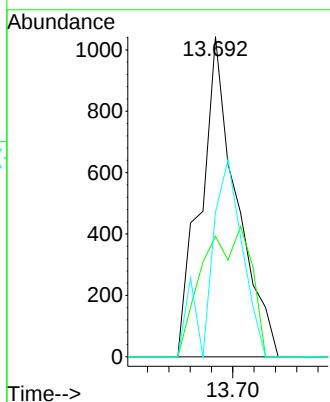
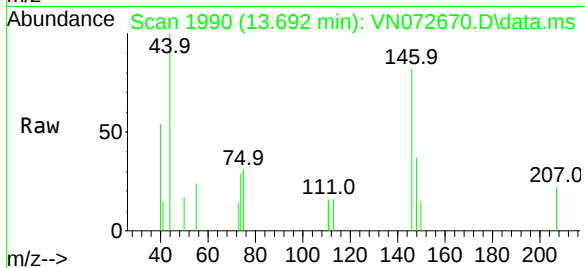
Instrument :

MSVOA_N

ClientSampleId :

14B-1

Tgt Ion:146	Resp:	1216
Ion Ratio	Lower	Upper
146	100	
111	34.2	21.4 64.2
148	48.3	32.5 97.4



#89

1,2,4-Trichlorobenzene

Concen: 0.931 ug/l

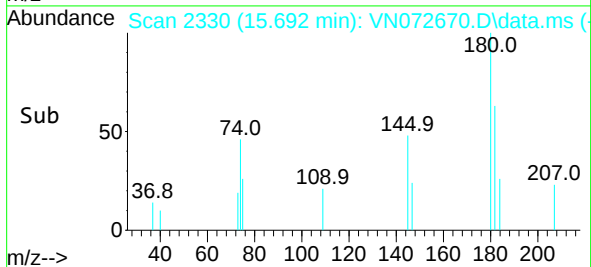
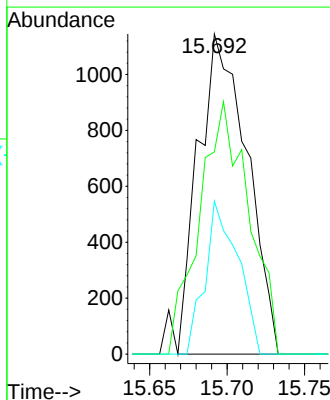
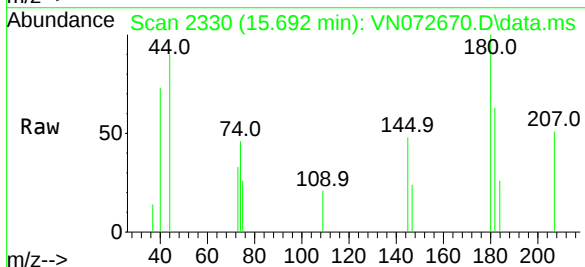
RT: 15.692 min Scan# 2330

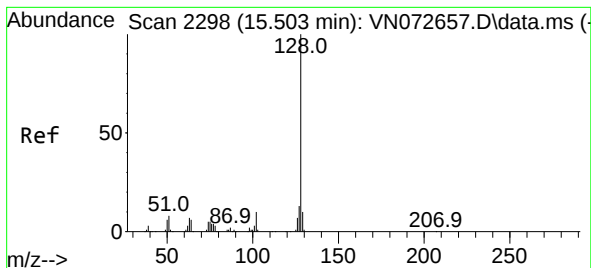
Delta R.T. 0.429 min

Lab File: VN072670.D

Acq: 06 Jun 2022 18:17

Tgt Ion:180	Resp:	2500
Ion Ratio	Lower	Upper
180	100	
182	80.0	77.7 116.5
145	32.2	26.6 39.8





#91

Naphthalene

Concen: 1.188 ug/l

RT: 15.504 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN072670.D

Acq: 06 Jun 2022 18:17

Instrument :

MSVOA_N

ClientSampleId :

14B-1

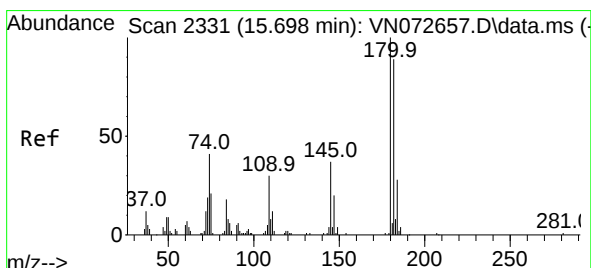
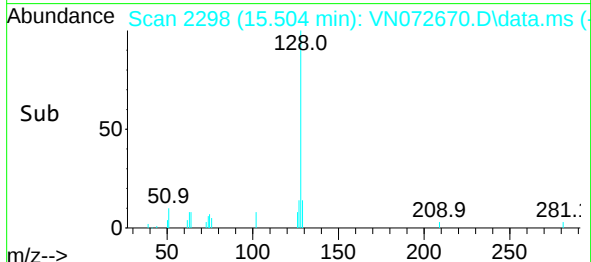
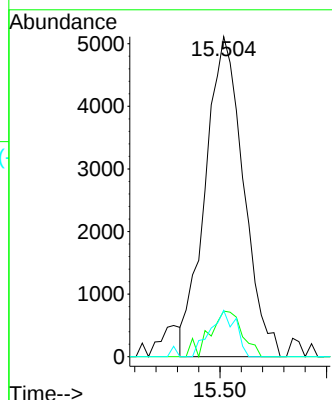
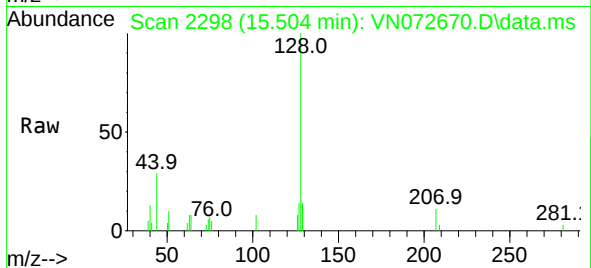
Tgt Ion:128 Resp: 12737

Ion Ratio Lower Upper

128 100

127 11.3 10.7 16.1

129 9.8 9.0 13.6



#92

1,2,3-Trichlorobenzene

Concen: 0.915 ug/l

RT: 15.692 min Scan# 2330

Delta R.T. -0.006 min

Lab File: VN072670.D

Acq: 06 Jun 2022 18:17

Tgt Ion:180 Resp: 2500

Ion Ratio Lower Upper

180 100

182 80.0 0.0 190.0

145 32.2 0.0 67.8

