

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011124\
 Data File : VN080675.D
 Acq On : 11 Jan 2024 14:29
 Operator : JC\MD
 Sample : VN0111WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 12 05:23:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N011124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 12 05:20:11 2024
 Response via : Initial Calibration

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

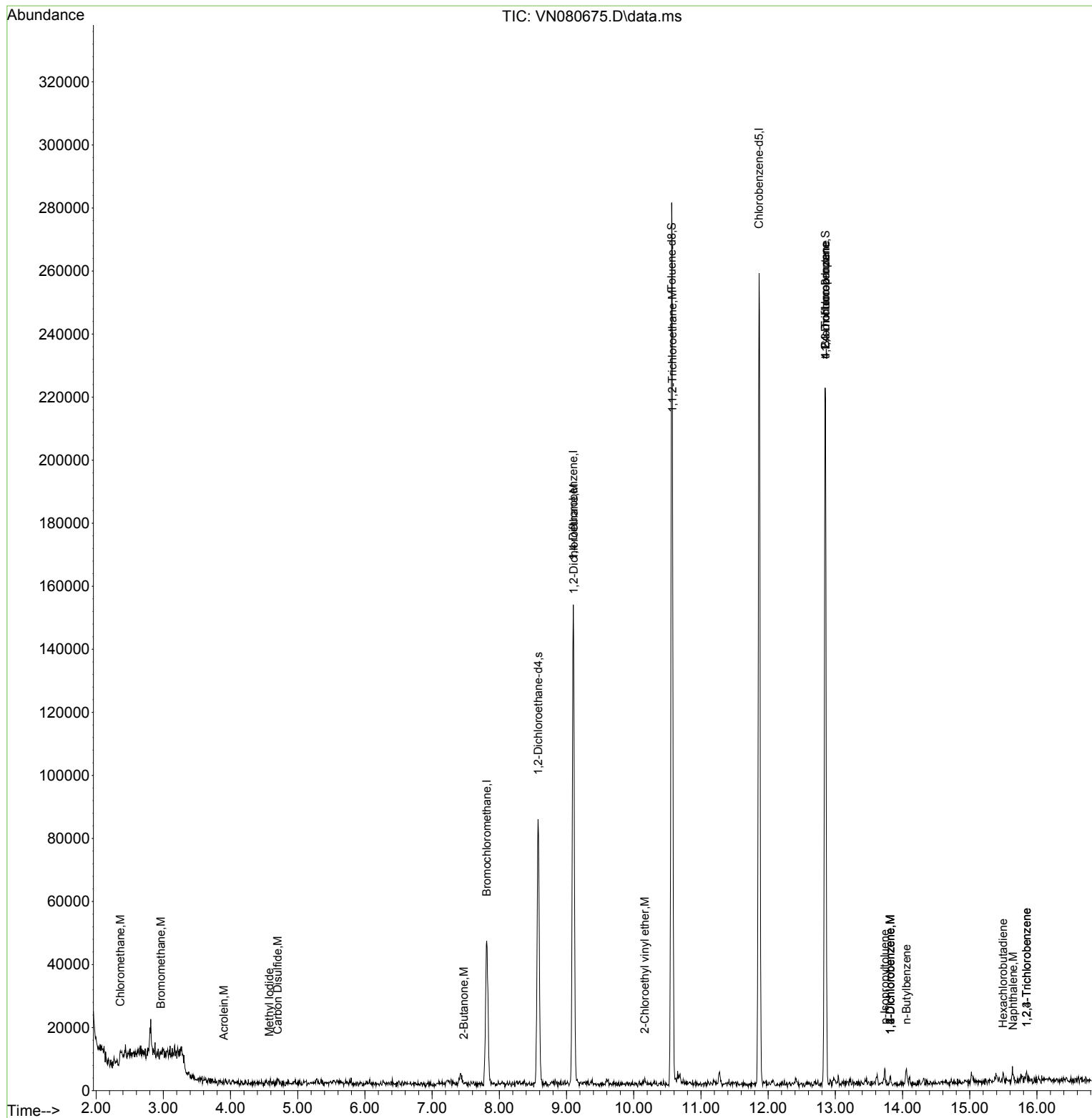
Internal Standards						
1) Bromochloromethane	7.812	128	13861	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	125118	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	136218	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	64698	28.904	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.333%
60) 4-Bromofluorobenzene	12.853	95	83164	27.599	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.000%
63) Toluene-d8	10.565	98	181719	30.397	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.333%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	3512	1.094	ug/l #	87
5) Bromomethane	2.965	94	401	0.447	ug/l #	4
11) Methyl Iodide	4.577	142	389	0.202	ug/l #	34
13) Acrolein	3.901	56	196	0.552	ug/l	96
16) Carbon Disulfide	4.700	76	1643	0.235	ug/l #	78
30) 2-Butanone	7.471	43	508	0.302	ug/l #	52
36) 1,2-Dichloroethane	9.106	62	5221	1.259	ug/l #	72
50) 1,1,2-Trichloroethane	10.577	97	5838	2.350	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.165	63	568	0.257	ug/l #	92
72) 1,2,3-Trichloropropane	12.853	75	45572	14.592	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	45572	35.595	ug/l #	12
82) p-Isopropyltoluene	13.735	119	1785	0.242	ug/l	81
83) 1,3-Dichlorobenzene	13.818	146	798	0.214	ug/l	94
84) 1,4-Dichlorobenzene	13.818	146	798	0.212	ug/l	95
85) n-Butylbenzene	14.059	91	2598	0.357	ug/l	96
87) 1,2-Dichlorobenzene	13.818	146	798	0.218	ug/l	93
89) 1,2,4-Trichlorobenzene	15.847	180	555	0.302	ug/l #	80
90) Hexachlorobutadiene	15.494	225	275	0.327	ug/l #	51
91) Naphthalene	15.647	128	3230	0.451	ug/l #	75
92) 1,2,3-Trichlorobenzene	15.847	180	555	0.302	ug/l	80

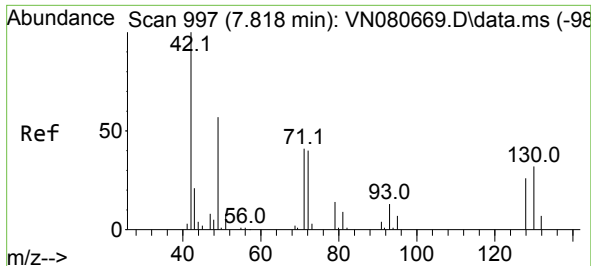
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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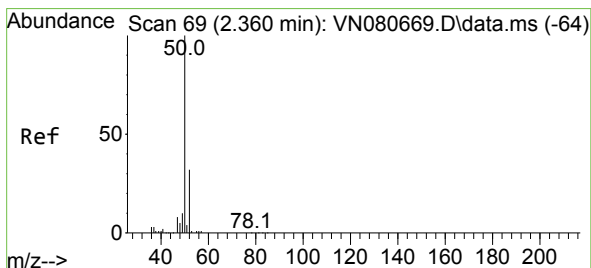
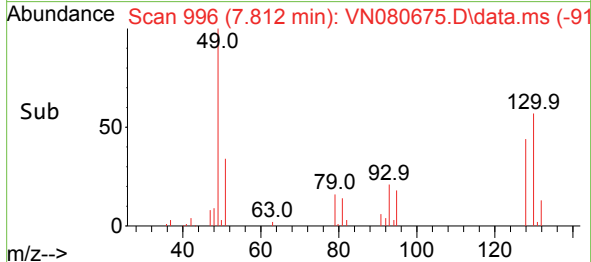
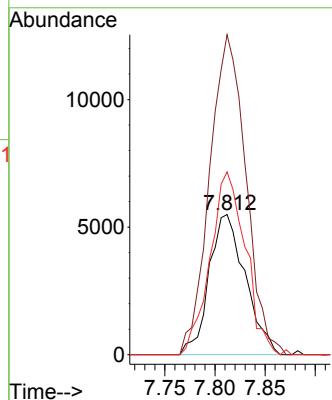
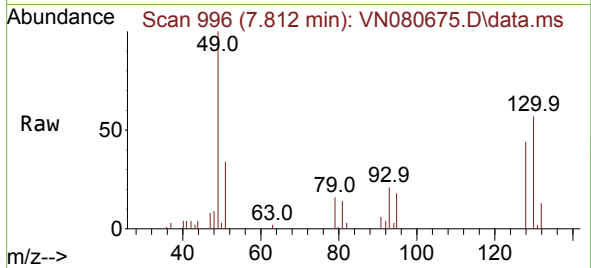




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN080675.D
Acq: 11 Jan 2024 14:29

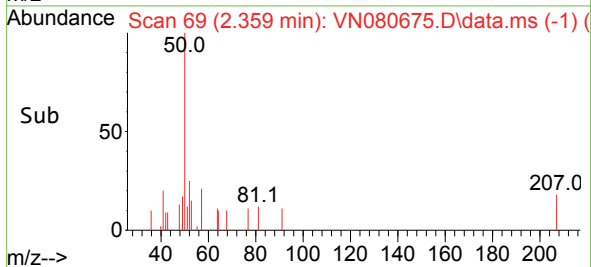
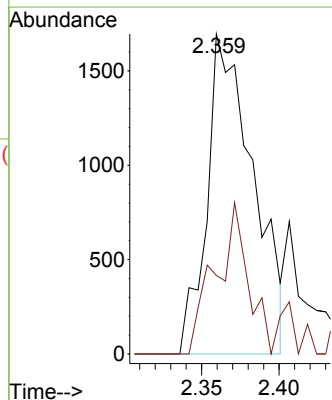
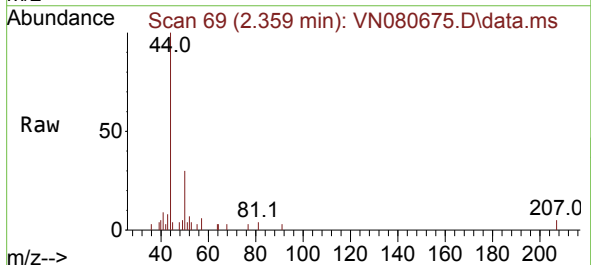
Instrument :
MSVOA_N
ClientSampleId :

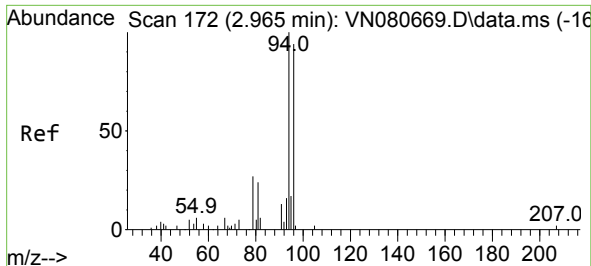
Tgt Ion:128 Resp: 13861
Ion Ratio Lower Upper
128 100
49 227.7 0.0 403.7
130 126.4 0.0 323.3



#3
Chloromethane
Concen: 1.094 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.001 min
Lab File: VN080675.D
Acq: 11 Jan 2024 14:29

Tgt Ion: 50 Resp: 3512
Ion Ratio Lower Upper
50 100
52 24.5 25.4 38.0#

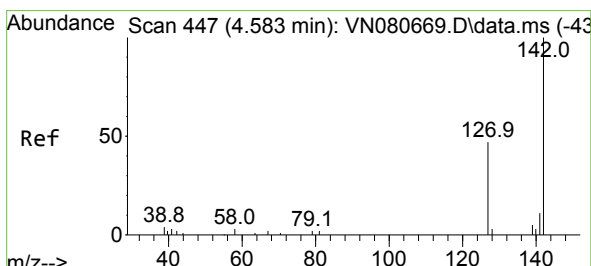
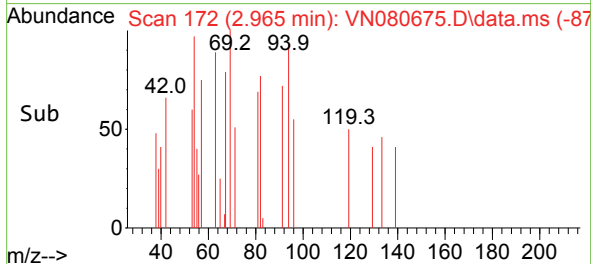
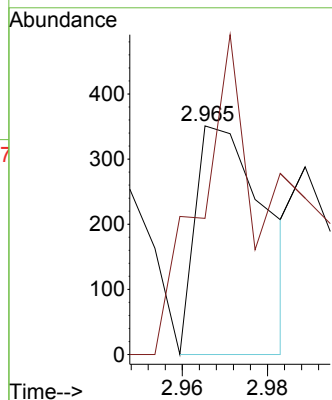
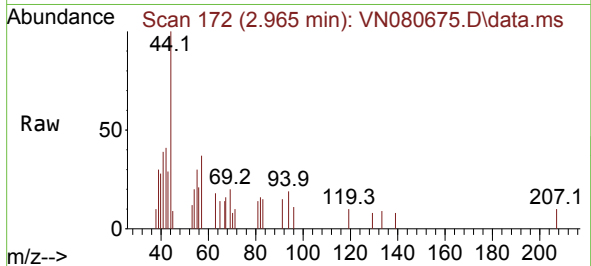




#5
Bromomethane
Concen: 0.447 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080675.D
Acq: 11 Jan 2024 14:29

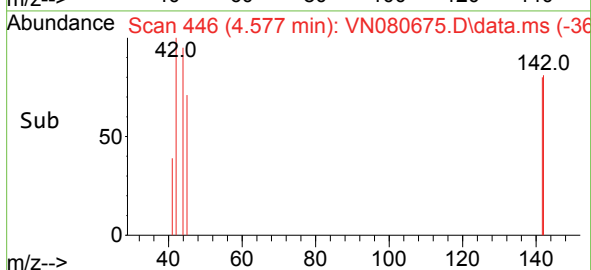
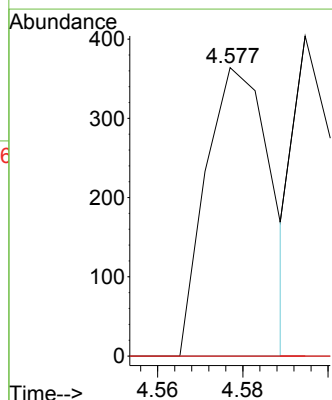
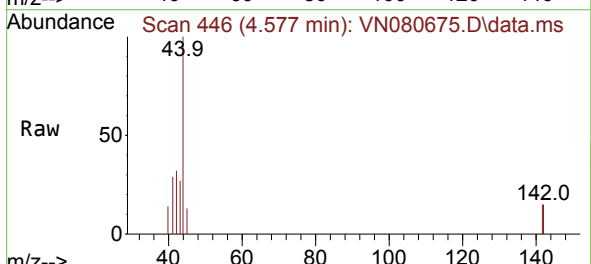
Instrument :
MSVOA_N
ClientSampleId :

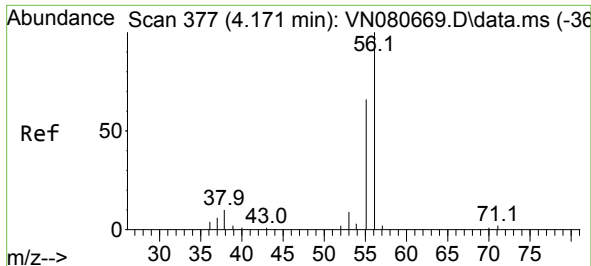
Tgt Ion: 94 Resp: 401
Ion Ratio Lower Upper
94 100
96 0.0 72.8 109.2#



#11
Methyl Iodide
Concen: 0.202 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.006 min
Lab File: VN080675.D
Acq: 11 Jan 2024 14:29

Tgt Ion: 142 Resp: 389
Ion Ratio Lower Upper
142 100
127 0.0 26.3 78.9#
141 0.0 8.3 24.9#





#13

Acrolein

Concen: 0.552 ug/l

RT: 3.901 min Scan# 31

Delta R.T. -0.270 min

Lab File: VN080675.D

Acq: 11 Jan 2024 14:29

Instrument :

MSVOA_N

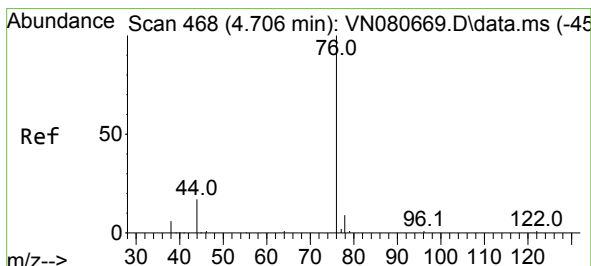
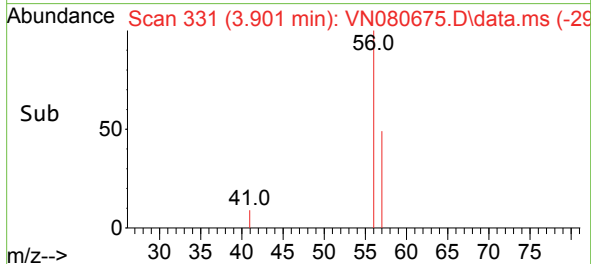
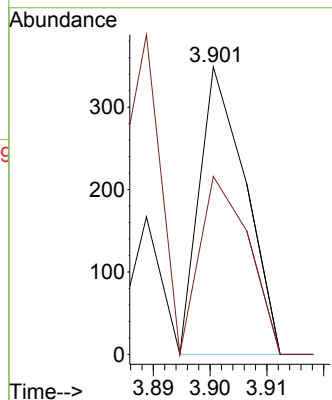
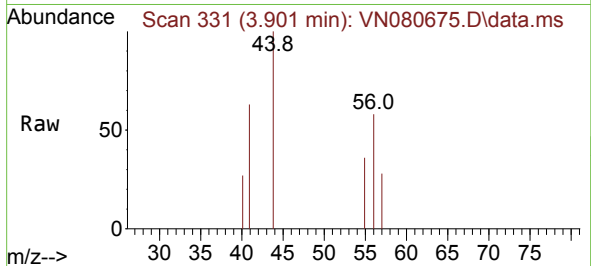
ClientSampleId :

Tgt Ion: 56 Resp: 196

Ion Ratio Lower Upper

56 100

55 65.8 55.5 83.3



#16

Carbon Disulfide

Concen: 0.235 ug/l

RT: 4.700 min Scan# 467

Delta R.T. -0.006 min

Lab File: VN080675.D

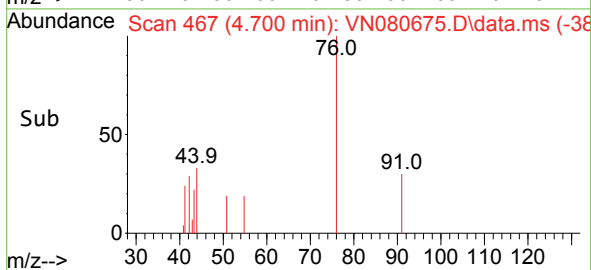
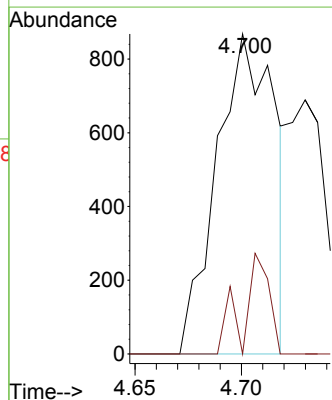
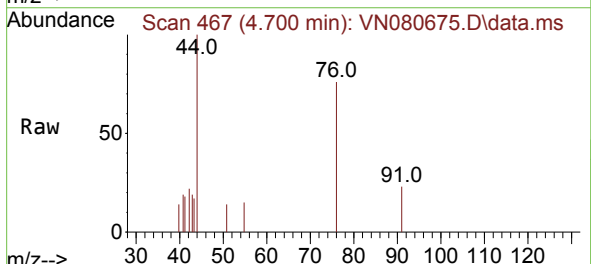
Acq: 11 Jan 2024 14:29

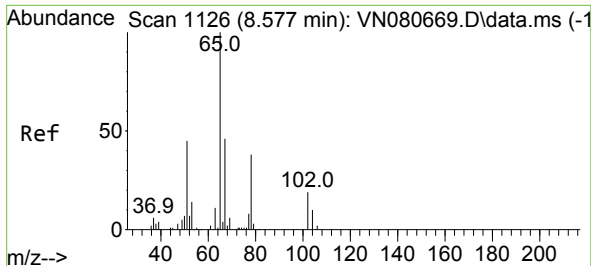
Tgt Ion: 76 Resp: 1643

Ion Ratio Lower Upper

76 100

78 0.0 6.3 9.5#





#27

1,2-Dichloroethane-d4

Concen: 28.904 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN080675.D

Acq: 11 Jan 2024 14:29

Instrument :

MSVOA_N

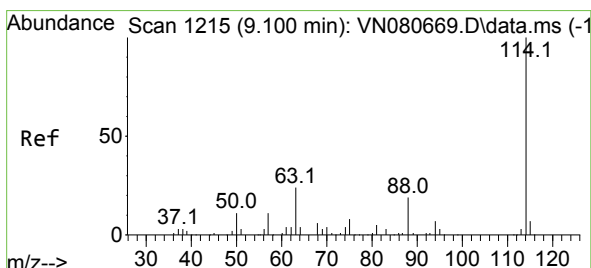
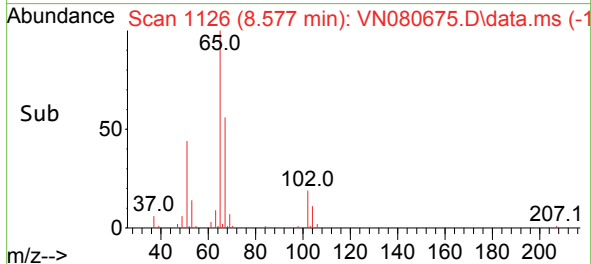
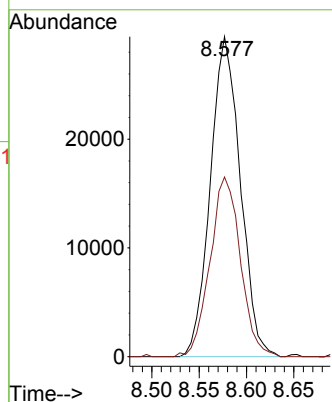
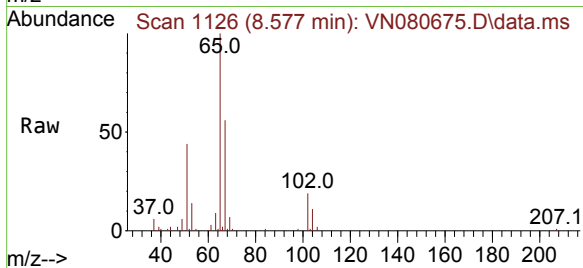
ClientSampleId :

Tgt Ion: 65 Resp: 64698

Ion Ratio Lower Upper

65 100

67 56.9 43.2 64.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN080675.D

Acq: 11 Jan 2024 14:29

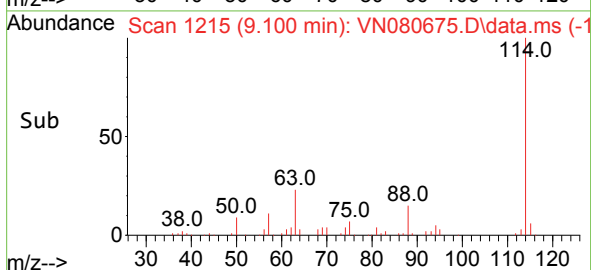
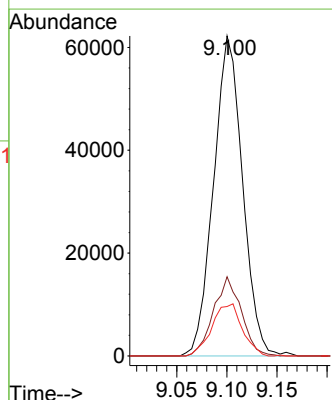
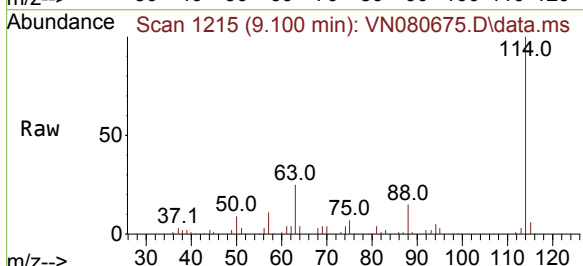
Tgt Ion: 114 Resp: 125118

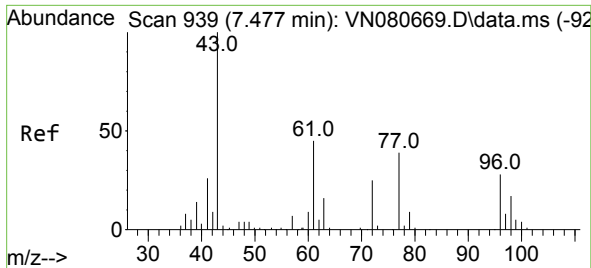
Ion Ratio Lower Upper

114 100

63 23.7 15.9 23.9

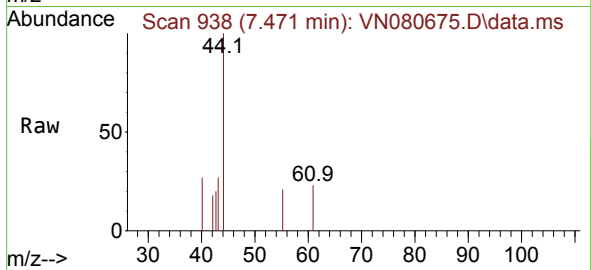
88 17.1 12.7 19.1



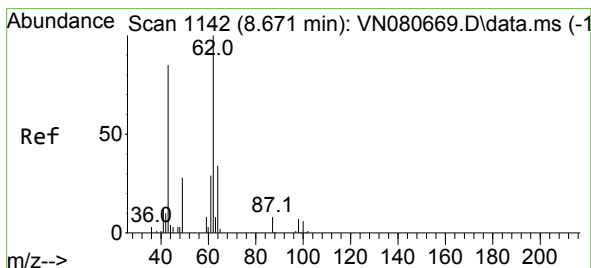
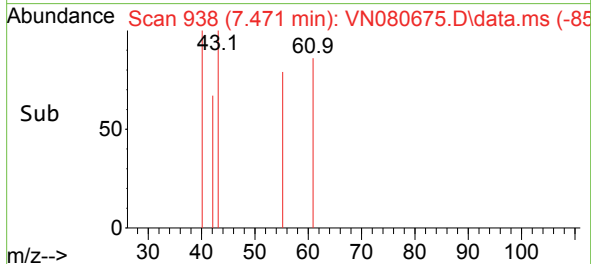
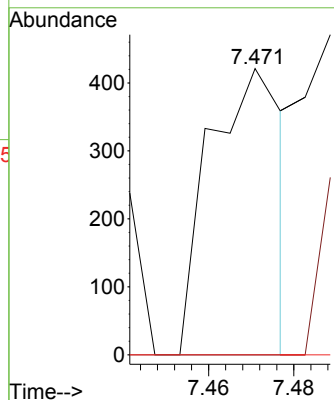


#30
2-Butanone
Concen: 0.302 ug/l
RT: 7.471 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN080675.D
Acq: 11 Jan 2024 14:29

Instrument :
MSVOA_N
ClientSampleId :

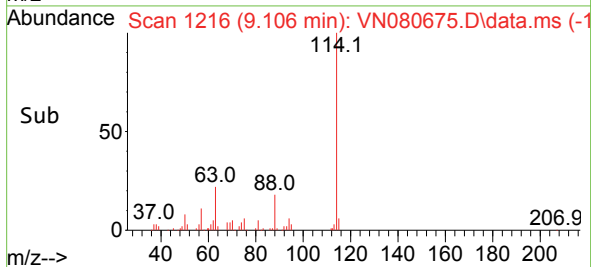
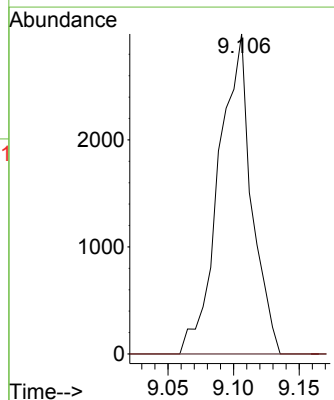
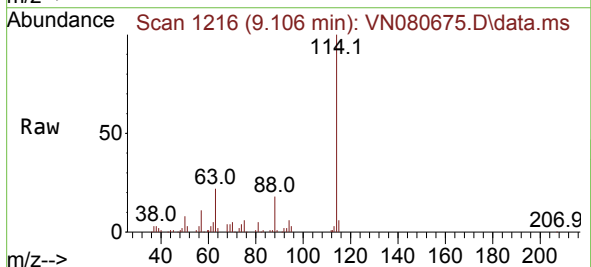


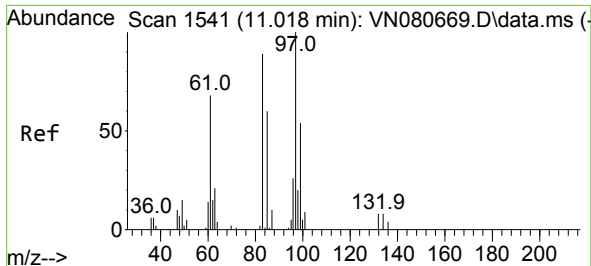
Tgt Ion: 43 Resp: 508
Ion Ratio Lower Upper
43 100
57 0.0 6.7 10.1#
72 0.0 24.0 36.0#



#36
1,2-Dichloroethane
Concen: 1.259 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.435 min
Lab File: VN080675.D
Acq: 11 Jan 2024 14:29

Tgt Ion: 62 Resp: 5221
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#





#50

1,1,2-Trichloroethane

Concen: 2.350 ug/l

RT: 10.577 min Scan# 1466

Delta R.T. -0.441 min

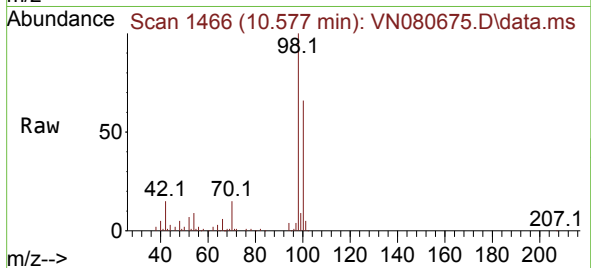
Lab File: VN080675.D

Acq: 11 Jan 2024 14:29

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 97 Resp: 5838

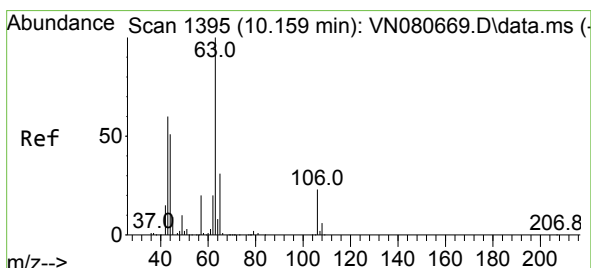
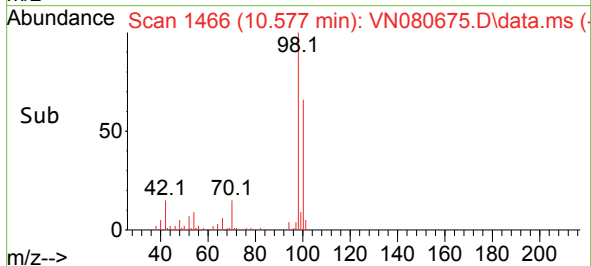
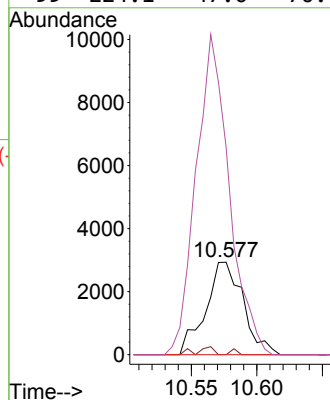
Ion Ratio Lower Upper

97 100

83 0.0 68.1 102.1#

85 0.0 41.8 62.6#

99 224.1 47.0 70.4#



#55

2-Chloroethyl vinyl ether

Concen: 0.257 ug/l

RT: 10.165 min Scan# 1396

Delta R.T. 0.006 min

Lab File: VN080675.D

Acq: 11 Jan 2024 14:29

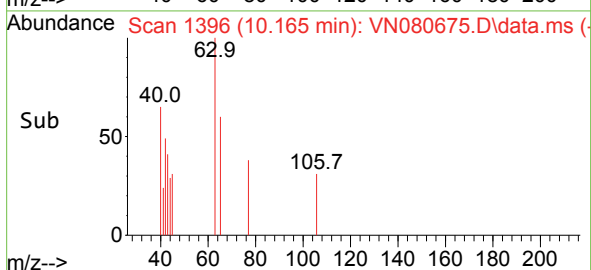
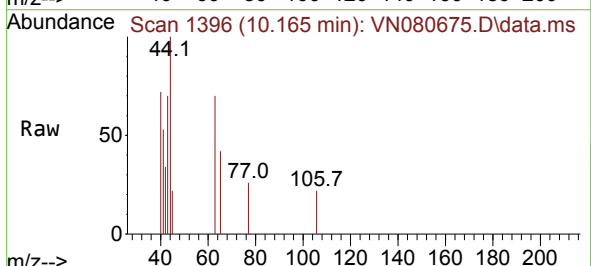
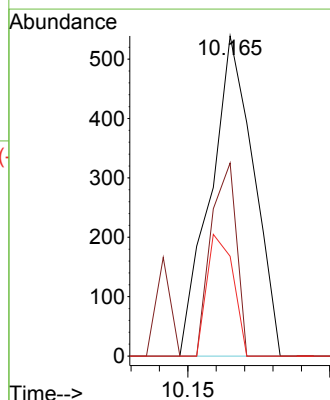
Tgt Ion: 63 Resp: 568

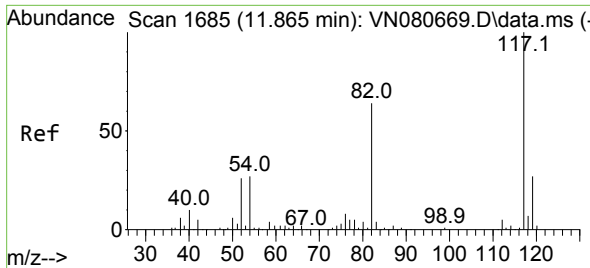
Ion Ratio Lower Upper

63 100

65 35.6 26.2 39.2

106 23.2 23.8 35.8#

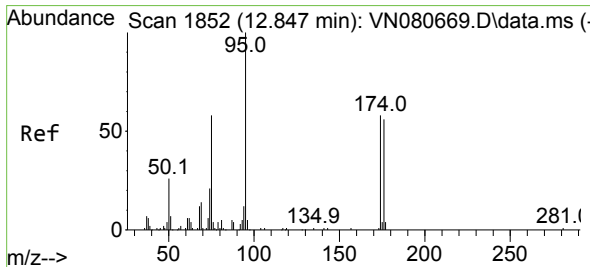
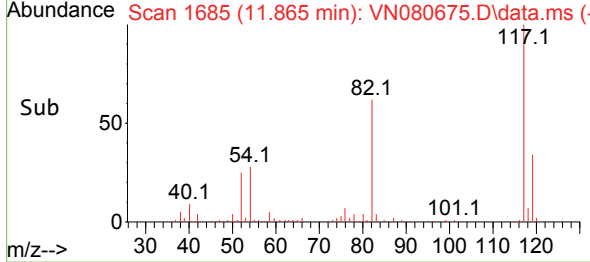
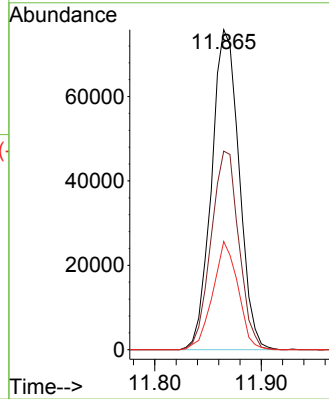
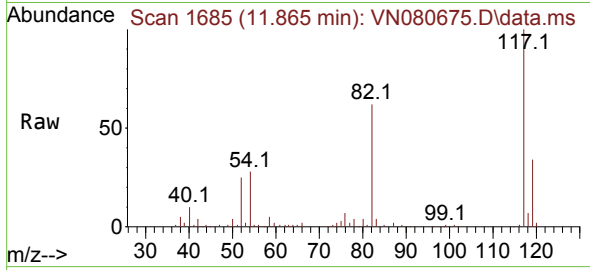




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN080675.D
Acq: 11 Jan 2024 14:29

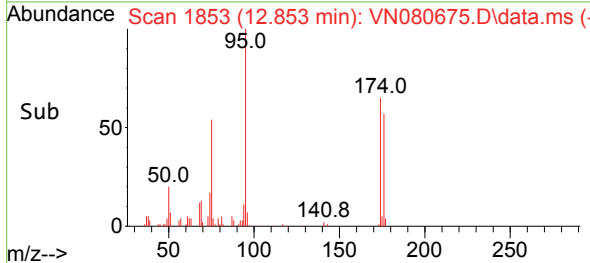
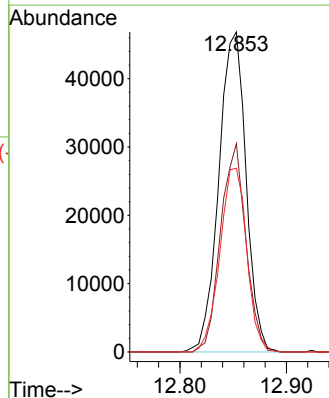
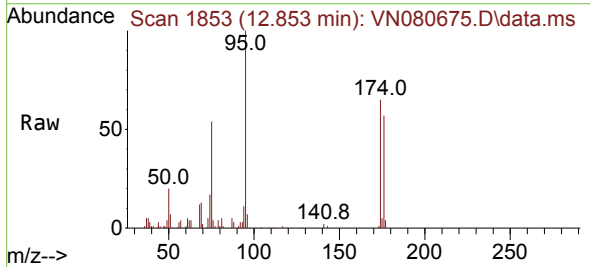
Instrument :
MSVOA_N
ClientSampleId :

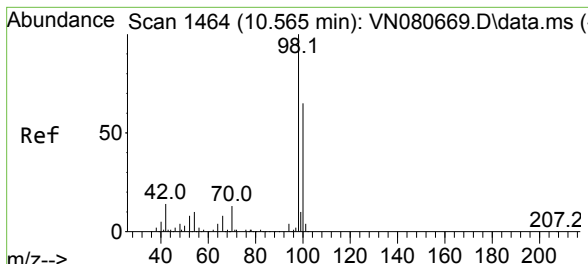
Tgt Ion:117 Resp: 136218
Ion Ratio Lower Upper
117 100
82 62.6 46.6 69.8
119 31.2 25.4 38.2



#60
4-Bromofluorobenzene
Concen: 27.599 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080675.D
Acq: 11 Jan 2024 14:29

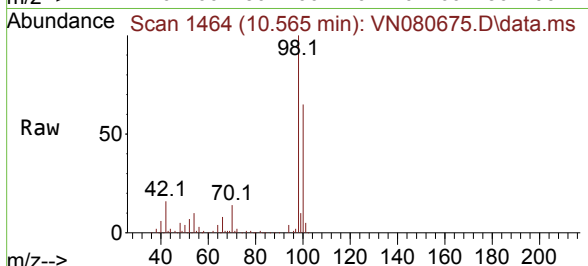
Tgt Ion: 95 Resp: 83164
Ion Ratio Lower Upper
95 100
174 60.4 60.5 90.7#
176 56.6 57.8 86.6#



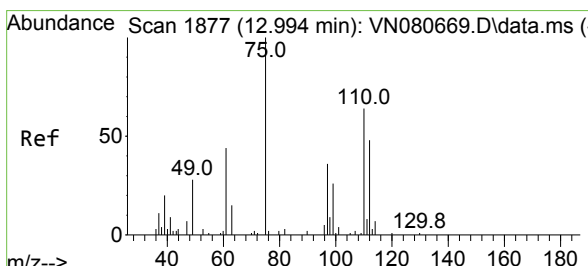
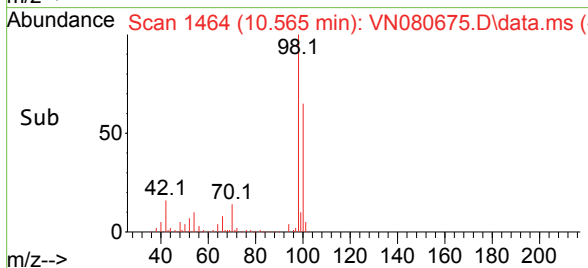
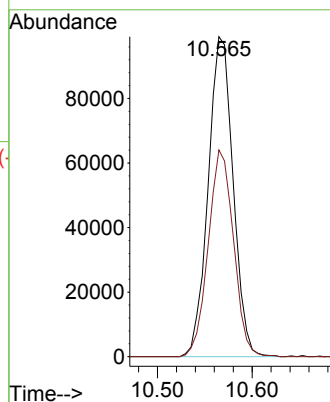


#63
Toluene-d8
Concen: 30.397 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN080675.D
Acq: 11 Jan 2024 14:29

Instrument :
MSVOA_N
ClientSampleId :

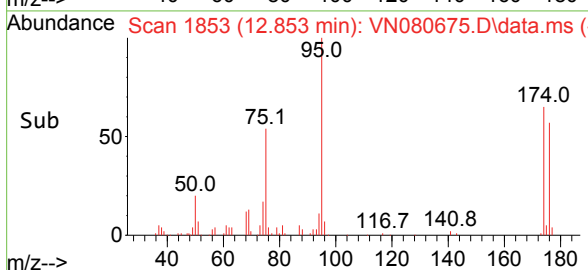
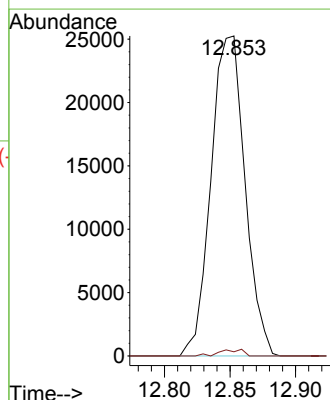
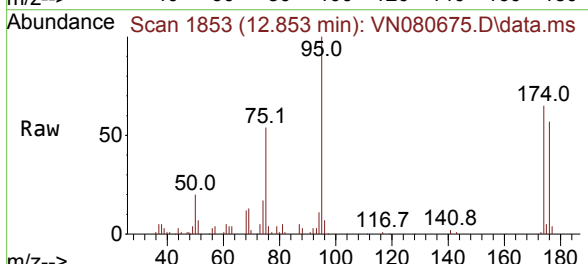


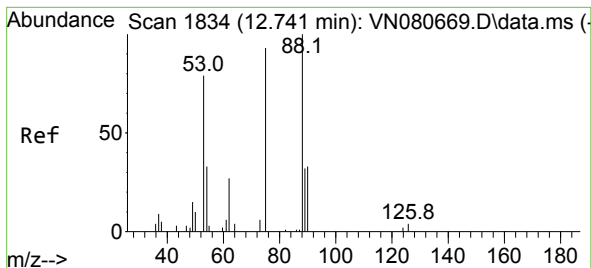
Tgt Ion: 98 Resp: 181719
Ion Ratio Lower Upper
98 100
100 65.4 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 14.592 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080675.D
Acq: 11 Jan 2024 14:29

Tgt Ion: 75 Resp: 45572
Ion Ratio Lower Upper
75 100
77 0.4 0.0 367.6

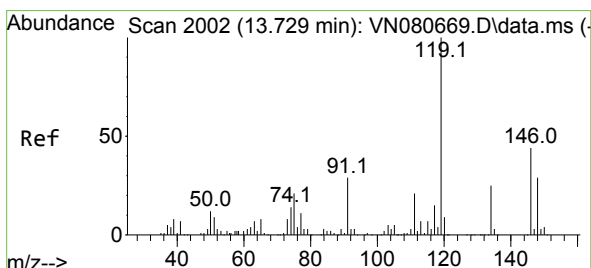
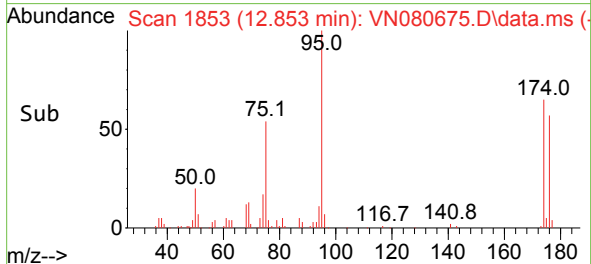
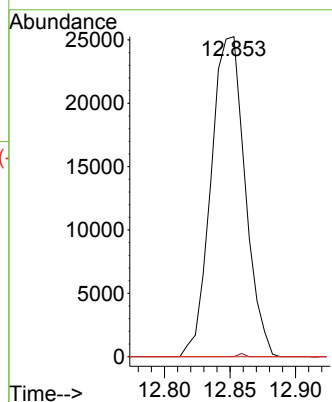
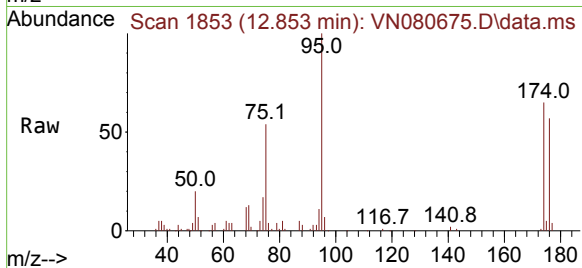




#77
t-1,4-Dichloro-2-butene
Concen: 35.595 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN080675.D
Acq: 11 Jan 2024 14:29

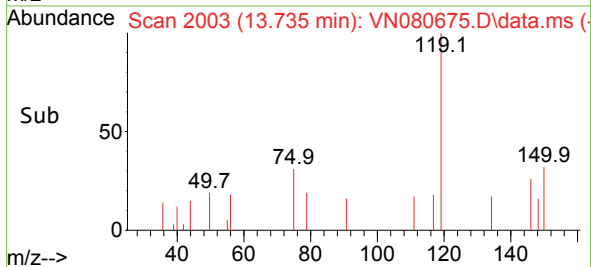
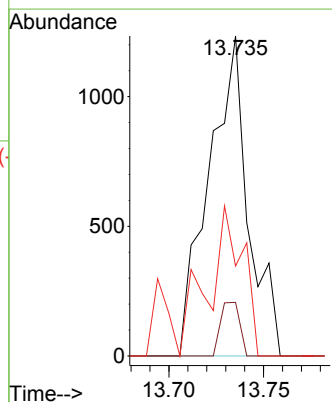
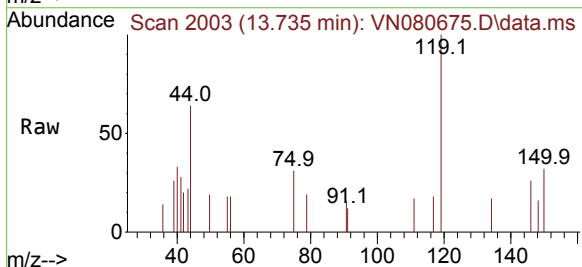
Instrument :
MSVOA_N
ClientSampleId :

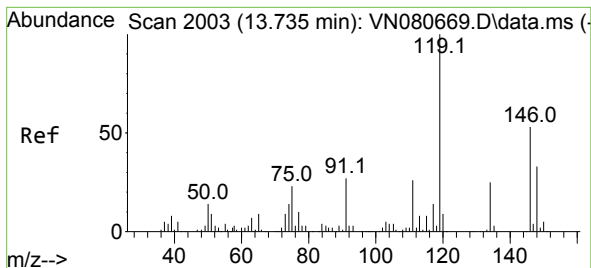
Tgt Ion: 75 Resp: 45572
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



#82
p-Isopropyltoluene
Concen: 0.242 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN080675.D
Acq: 11 Jan 2024 14:29

Tgt Ion: 119 Resp: 1785
Ion Ratio Lower Upper
119 100
134 8.1 0.0 49.2
91 26.9 0.0 48.8





#83

1,3-Dichlorobenzene

Concen: 0.214 ug/l

RT: 13.818 min Scan# 20

Delta R.T. 0.083 min

Lab File: VN080675.D

Acq: 11 Jan 2024 14:29

Instrument :

MSVOA_N

ClientSampleId :

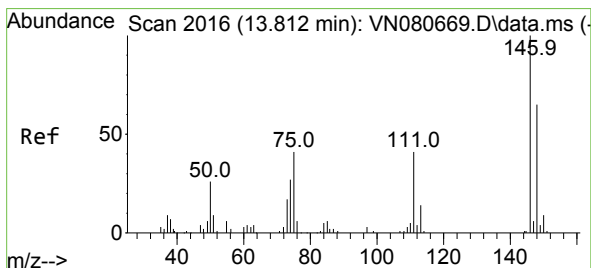
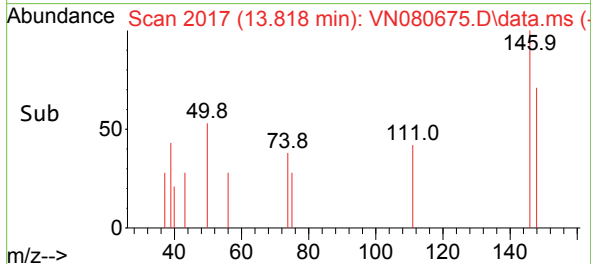
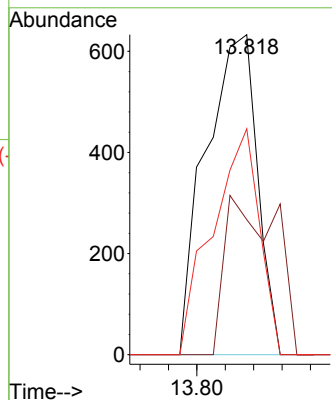
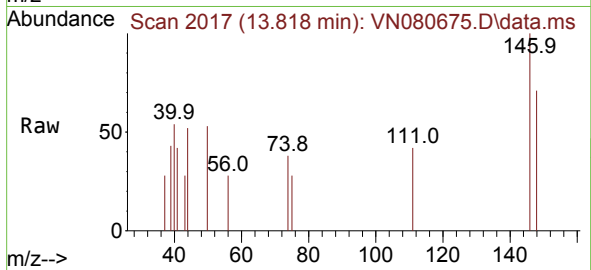
Tgt Ion:146 Resp: 798

Ion Ratio Lower Upper

146 100

111 35.7 22.4 67.0

148 64.3 32.1 96.5



#84

1,4-Dichlorobenzene

Concen: 0.212 ug/l

RT: 13.818 min Scan# 2017

Delta R.T. 0.006 min

Lab File: VN080675.D

Acq: 11 Jan 2024 14:29

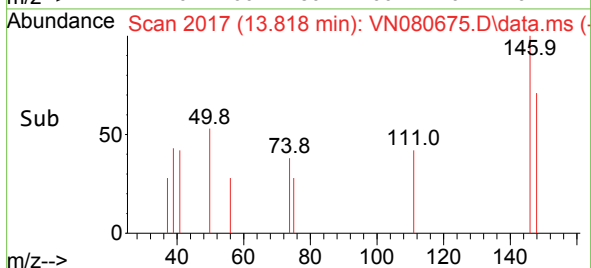
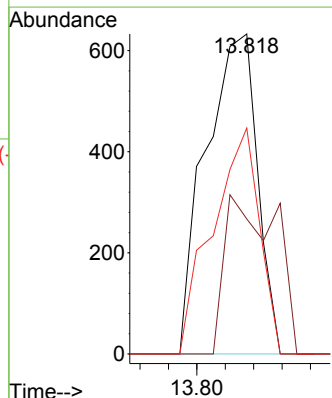
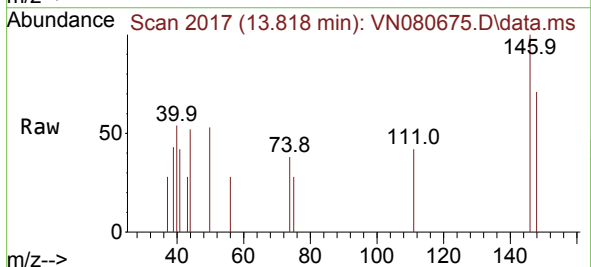
Tgt Ion:146 Resp: 798

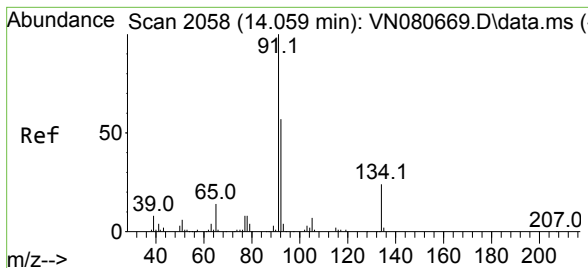
Ion Ratio Lower Upper

146 100

111 35.7 21.3 63.9

148 64.3 31.9 95.5





#85

n-Butylbenzene

Concen: 0.357 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. -0.000 min

Lab File: VN080675.D

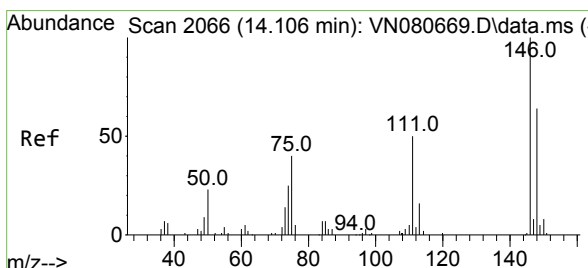
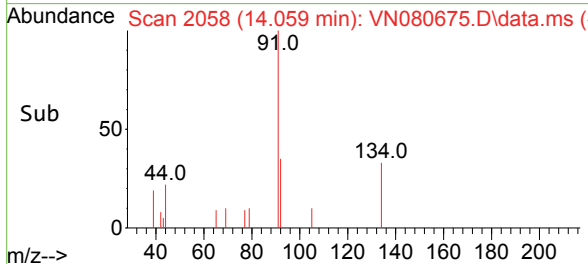
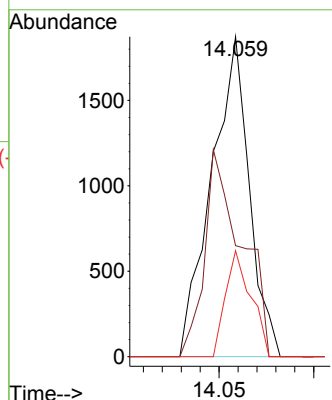
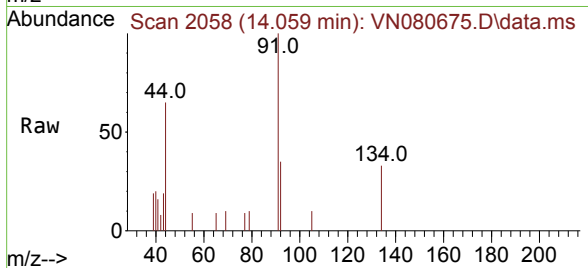
Acq: 11 Jan 2024 14:29

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 91	Resp:	2598
Ion	Ratio	Lower Upper
91	100	
92	54.5	0.0 105.0
134	22.2	0.0 51.8



#87

1,2-Dichlorobenzene

Concen: 0.218 ug/l

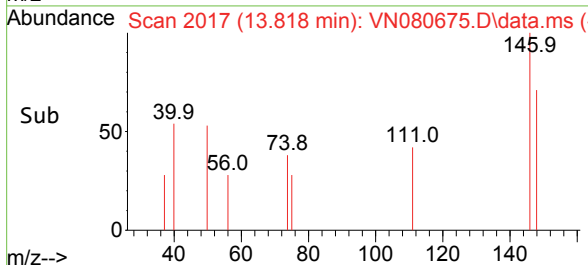
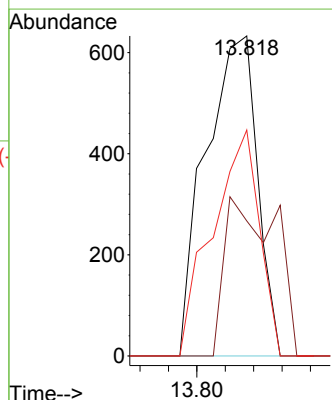
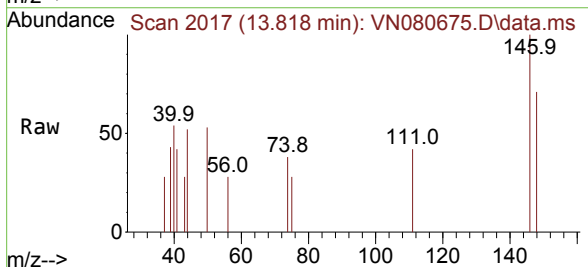
RT: 13.818 min Scan# 2017

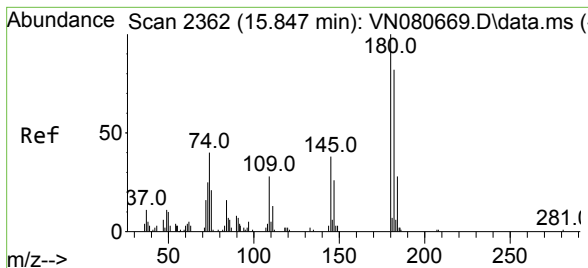
Delta R.T. -0.288 min

Lab File: VN080675.D

Acq: 11 Jan 2024 14:29

Tgt Ion: 146	Resp:	798
Ion	Ratio	Lower Upper
146	100	
111	35.7	22.6 67.8
148	64.3	31.3 93.8





#89

1,2,4-Trichlorobenzene

Concen: 0.302 ug/l

RT: 15.847 min Scan# 21

Delta R.T. -0.000 min

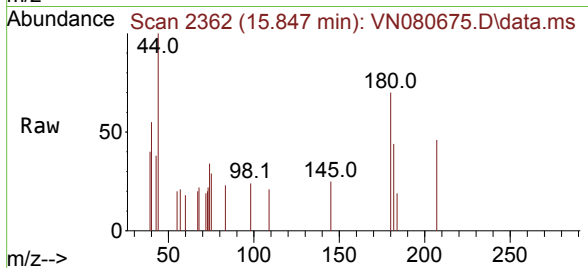
Lab File: VN080675.D

Acq: 11 Jan 2024 14:29

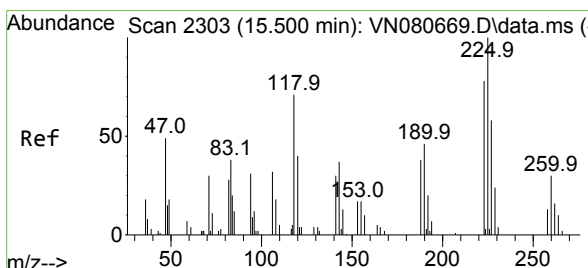
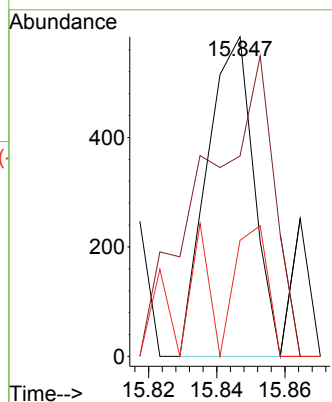
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	180	Resp:	555
Ion Ratio	Lower	Upper	
180	100		
182	72.4	76.4	114.6#
145	28.6	28.4	42.6



#90

Hexachlorobutadiene

Concen: 0.327 ug/l

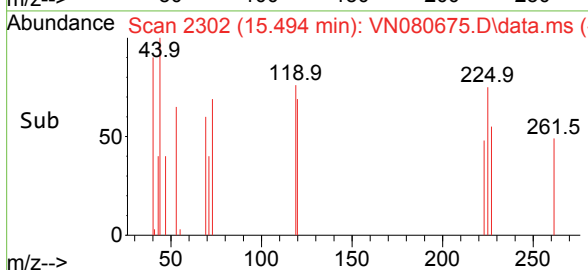
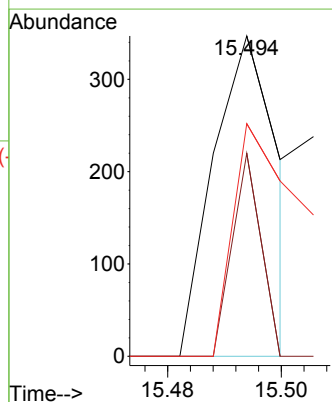
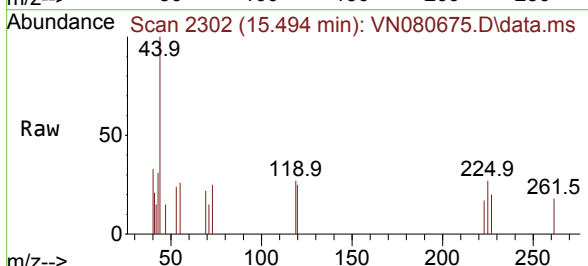
RT: 15.494 min Scan# 2302

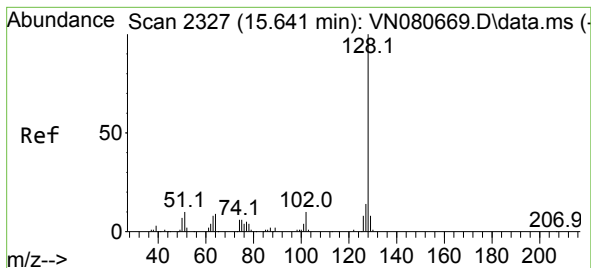
Delta R.T. -0.006 min

Lab File: VN080675.D

Acq: 11 Jan 2024 14:29

Tgt Ion:	225	Resp:	275
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	126.6
227	76.4	0.0	126.6





#91

Naphthalene

Concen: 0.451 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

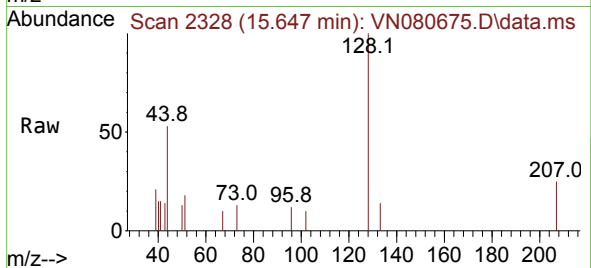
Lab File: VN080675.D

Acq: 11 Jan 2024 14:29

Instrument :

MSVOA_N

ClientSampleId :



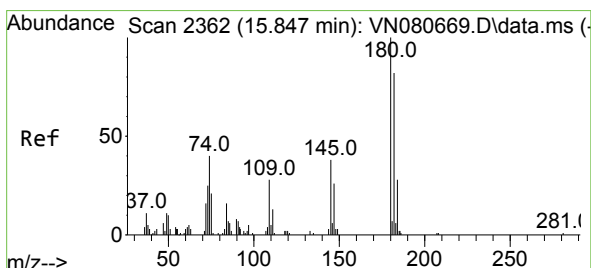
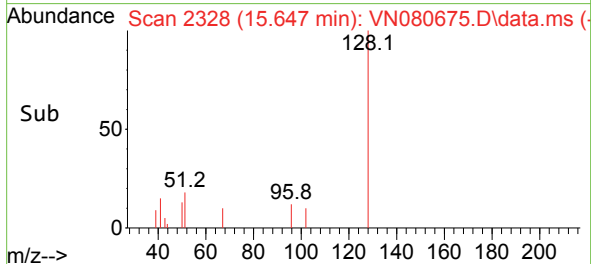
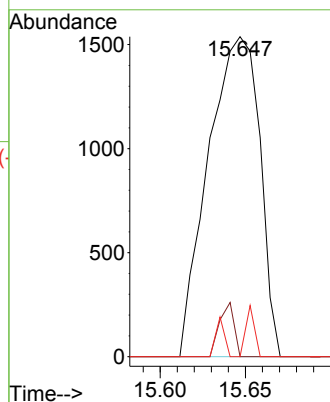
Tgt Ion:128 Resp: 3230

Ion Ratio Lower Upper

128 100

127 4.8 10.6 16.0#

129 0.0 8.6 13.0#



#92

1,2,3-Trichlorobenzene

Concen: 0.302 ug/l

RT: 15.847 min Scan# 2362

Delta R.T. -0.000 min

Lab File: VN080675.D

Acq: 11 Jan 2024 14:29

Tgt Ion:180 Resp: 555

Ion Ratio Lower Upper

180 100

182 72.4 0.0 191.0

145 28.6 0.0 71.0

