

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061122\
 Data File : VN072784.D
 Acq On : 11 Jun 2022 12:52
 Operator : JC\MD
 Sample : N3283-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 220608031-05-TRIP-BLANK

Quant Time: Jun 13 01:19:08 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)

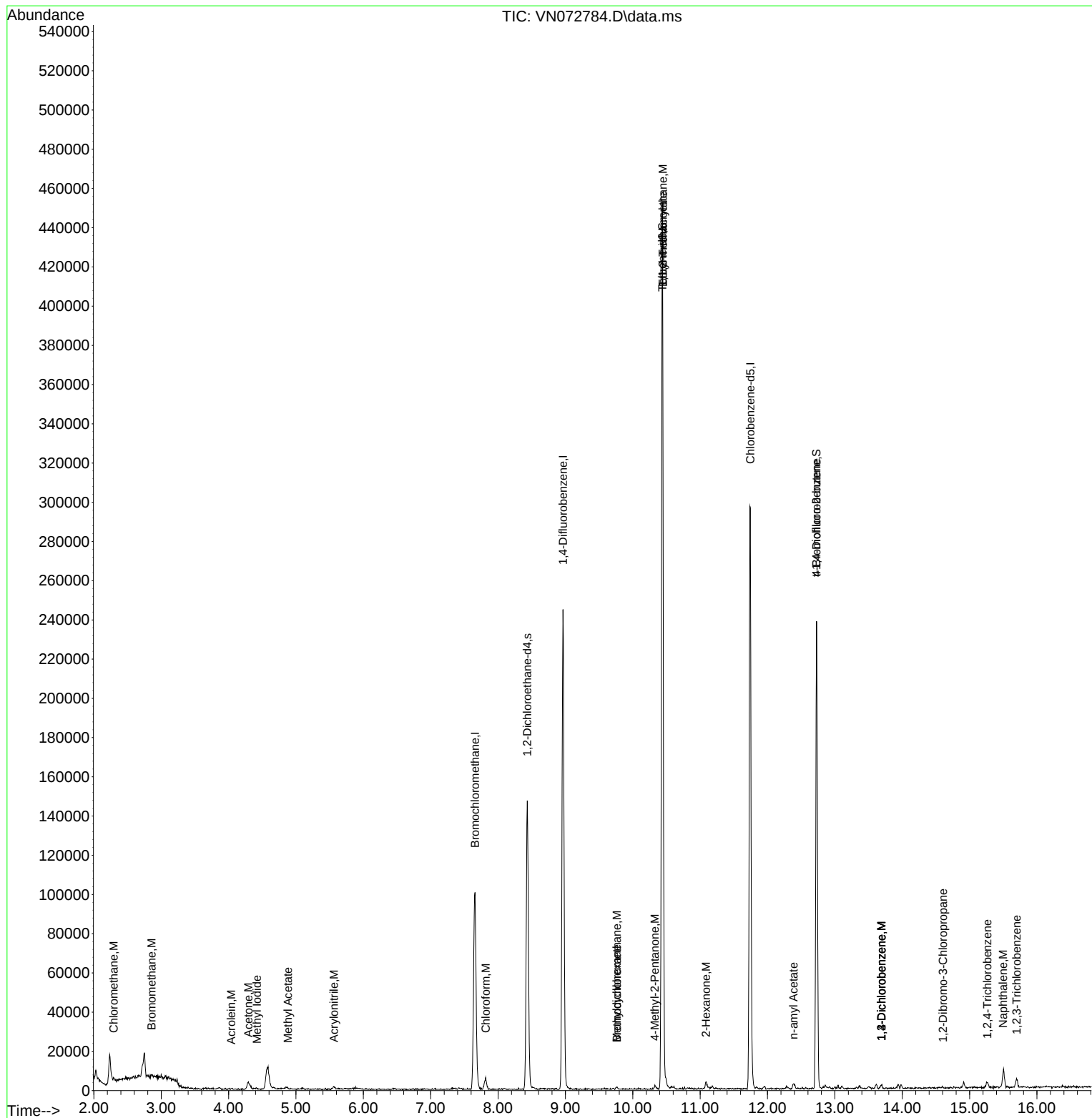
Internal Standards						
1) Bromochloromethane	7.657	128	32100	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	193207	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.745	117	160114	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	120590	32.940	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 109.800%	
60) 4-Bromofluorobenzene	12.727	95	79223	24.057	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 80.200%	
63) Toluene-d8	10.439	98	292713	33.002	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 110.000%	
Target Compounds						Qvalue
3) Chloromethane	2.293	50	698	0.267	ug/l #	40
5) Bromomethane	2.857	94	376	0.308	ug/l #	49
11) Methyl Iodide	4.422	142	558	0.263	ug/l #	37
12) Methyl Acetate	4.881	43	1559	0.356	ug/l #	49
13) Acrolein	4.040	56	124	0.324	ug/l #	14
14) Acrylonitrile	5.563	53	725	0.406	ug/l	83
15) Acetone	4.292	58	1632	3.379	ug/l	78
25) Chloroform	7.816	83	4478	0.865	ug/l #	63
38) Methylcyclohexane	9.763	83	1091	0.248	ug/l #	21
41) Bromodichloromethane	9.763	83	1091	0.248	ug/l #	70
47) n-amyl Acetate	12.386	43	1954	0.301	ug/l #	86
50) 1,1,2-Trichloroethane	10.445	97	8361	2.878	ug/l #	1
51) Ethyl methacrylate	10.445	69	1186	0.225	ug/l	72
58) 4-Methyl-2-Pentanone	10.327	43	1248	0.260	ug/l #	67
59) 2-Hexanone	11.086	43	3245	0.891	ug/l #	79
77) t-1,4-Dichloro-2-butene	12.727	75	49010	32.480	ug/l #	8
83) 1,3-Dichlorobenzene	13.692	146	892	0.207	ug/l	85
84) 1,4-Dichlorobenzene	13.692	146	892	0.213	ug/l	86
87) 1,2-Dichlorobenzene	13.692	146	892	0.209	ug/l	86
88) 1,2-Dibromo-3-Chloropr...	14.604	75	254	0.247	ug/l #	5
89) 1,2,4-Trichlorobenzene	15.262	180	715	0.332	ug/l #	48
91) Naphthalene	15.498	128	9904	1.154	ug/l #	81
92) 1,2,3-Trichlorobenzene	15.698	180	1138	0.520	ug/l	61

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061122\
Data File : VN072784.D
Acq On : 11 Jun 2022 12:52
Operator : JC\MD
Sample : N3283-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

Quant Time: Jun 13 01:19:08 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

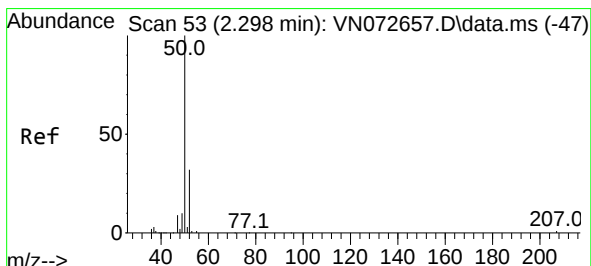
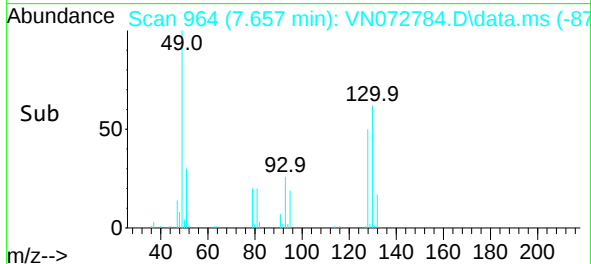
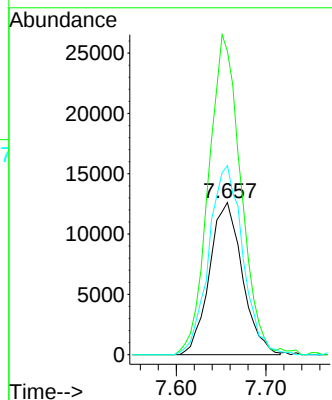
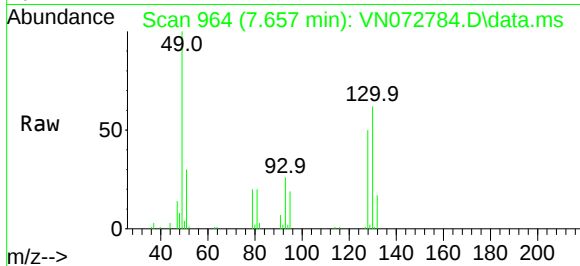




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.657 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

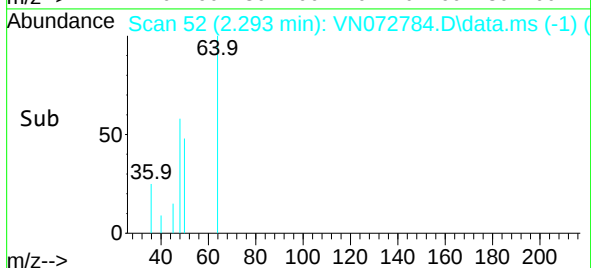
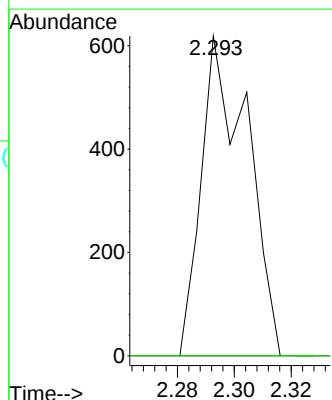
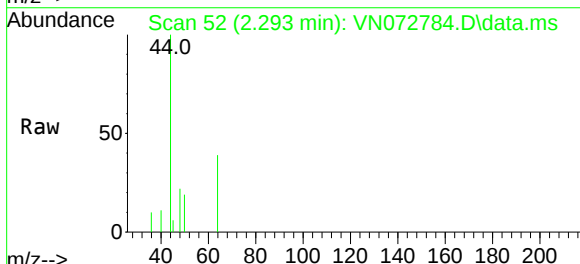
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

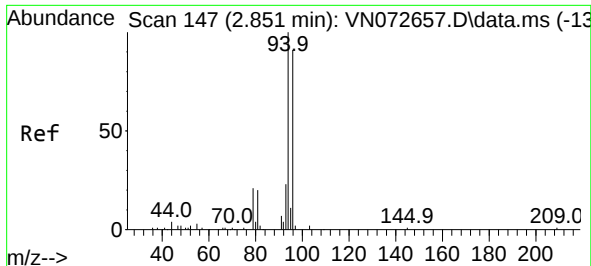
Tgt Ion	Ratio	Lower	Upper
128	100		
49	205.5	0.0	392.3
130	128.6	0.0	320.2



#3
Chloromethane
Concen: 0.267 ug/l
RT: 2.293 min Scan# 52
Delta R.T. -0.006 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

Tgt Ion	Ratio	Lower	Upper
50	100		
52	0.0	27.8	41.6#

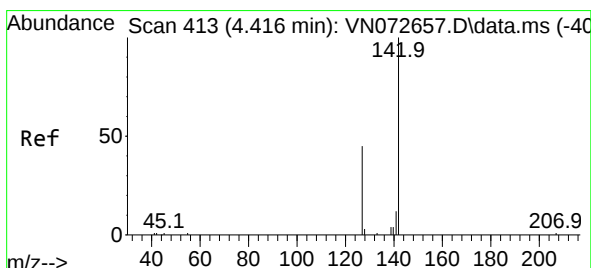
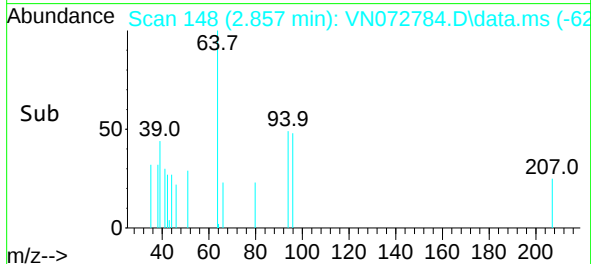
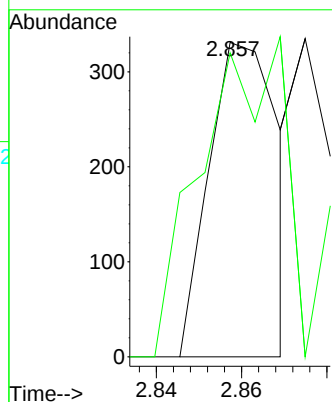
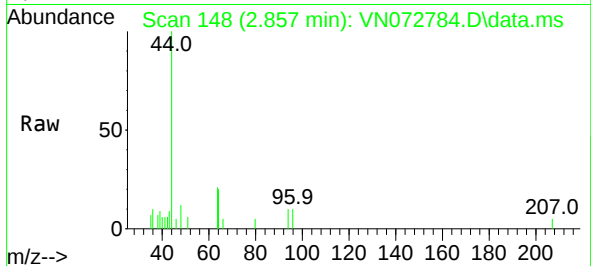




#5
Bromomethane
Concen: 0.308 ug/l
RT: 2.857 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

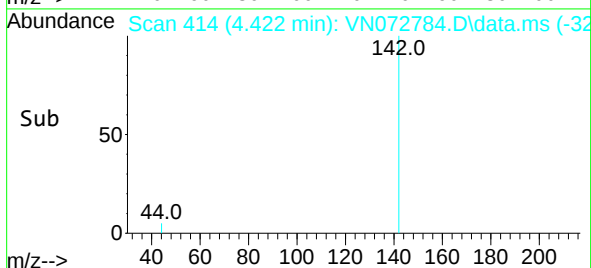
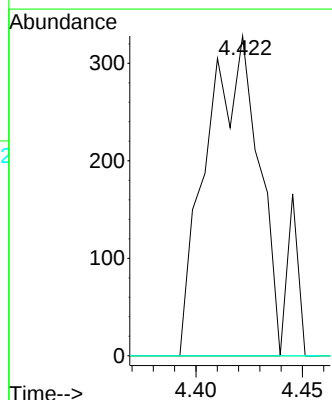
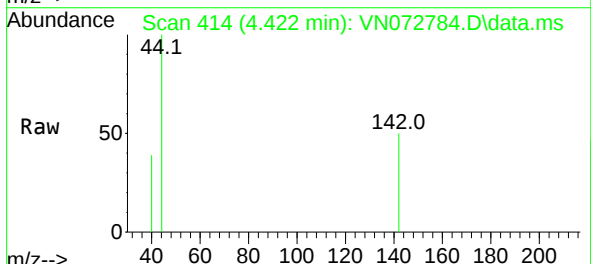
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

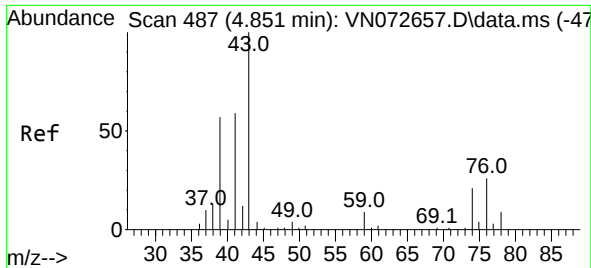
Tgt Ion: 94 Resp: 376
Ion Ratio Lower Upper
94 100
96 44.4 75.2 112.8#



#11
Methyl Iodide
Concen: 0.263 ug/l
RT: 4.422 min Scan# 414
Delta R.T. 0.006 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

Tgt Ion: 142 Resp: 558
Ion Ratio Lower Upper
142 100
127 0.0 24.0 72.0#
141 0.0 8.4 25.2#

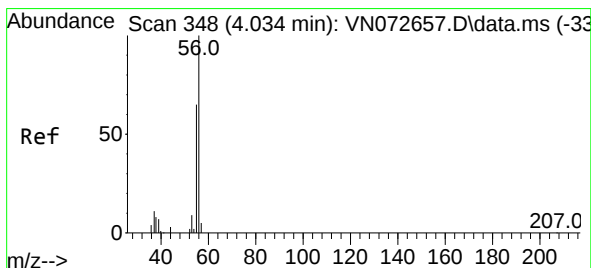
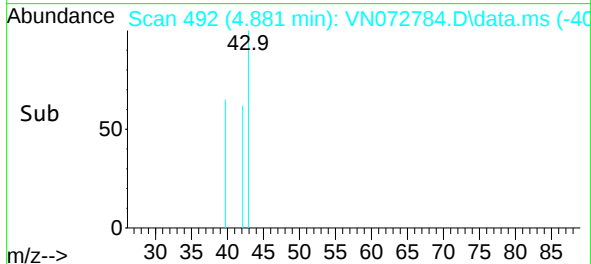
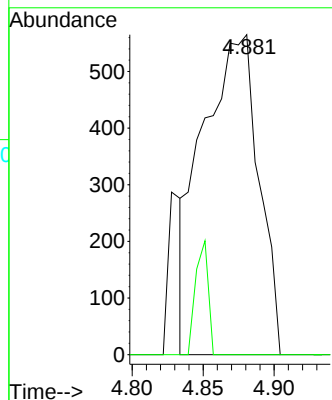
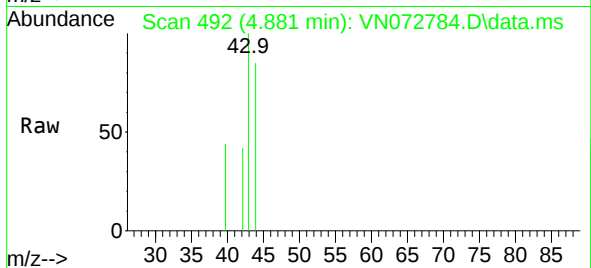




#12
Methyl Acetate
Concen: 0.356 ug/l
RT: 4.881 min Scan# 491
Delta R.T. 0.029 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

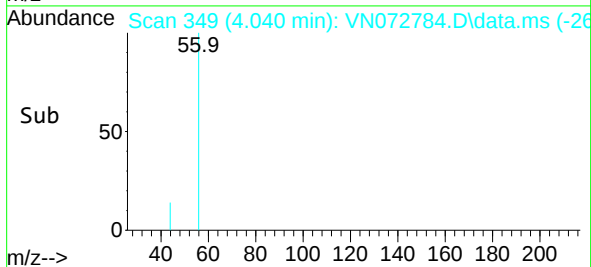
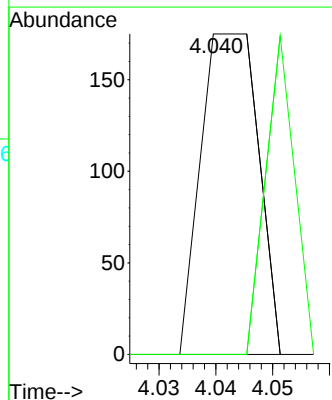
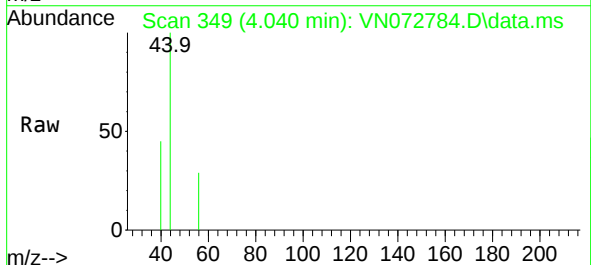
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

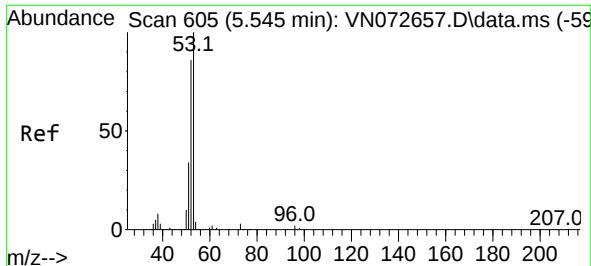
Tgt Ion: 43 Resp: 1559
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#



#13
Acrolein
Concen: 0.324 ug/l
RT: 4.040 min Scan# 349
Delta R.T. 0.006 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

Tgt Ion: 56 Resp: 124
Ion Ratio Lower Upper
56 100
55 0.0 57.6 86.4#

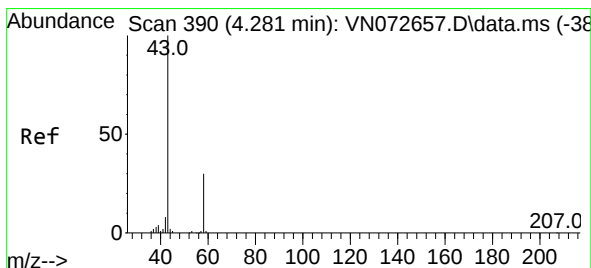
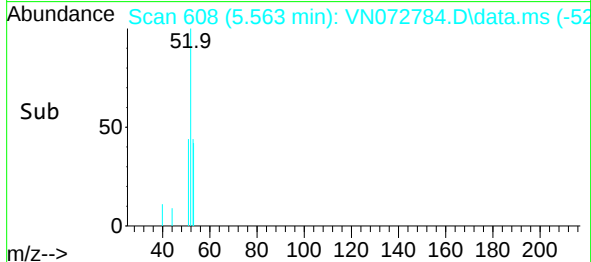
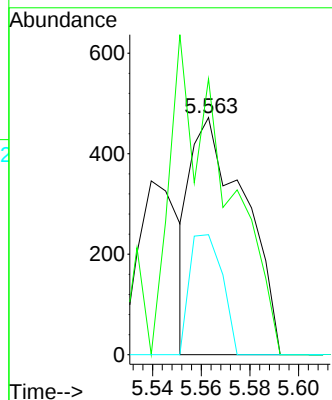
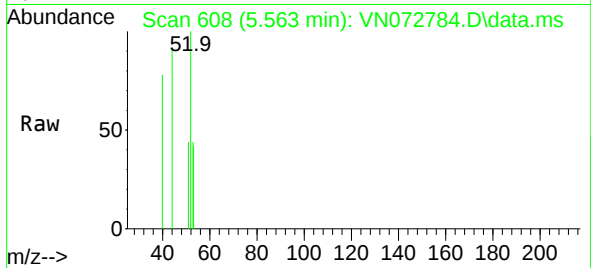




#14
Acrylonitrile
Concen: 0.406 ug/l
RT: 5.563 min Scan# 605
Delta R.T. 0.018 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

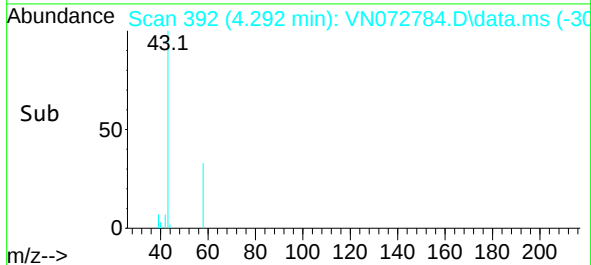
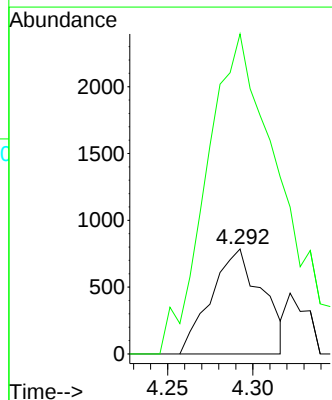
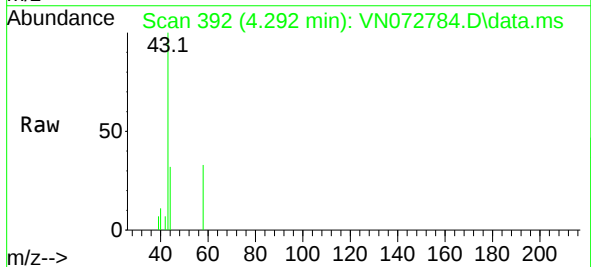
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

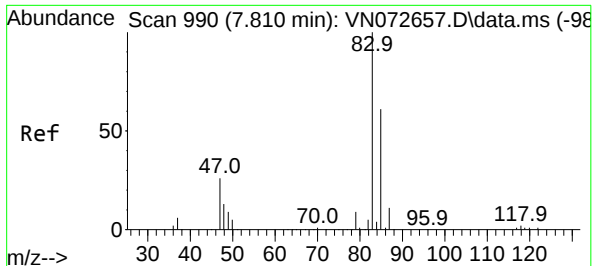
Tgt Ion: 53	Resp: 725		
Ion Ratio	Lower	Upper	
53	100		
52	101.7	41.8	125.4
51	30.9	19.0	57.0



#15
Acetone
Concen: 3.379 ug/l
RT: 4.292 min Scan# 392
Delta R.T. 0.012 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

Tgt Ion: 58	Resp: 1632
Ion Ratio	Lower Upper
58 100	
43 276.2	256.6 384.8

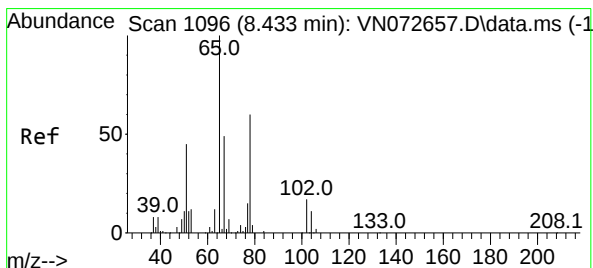
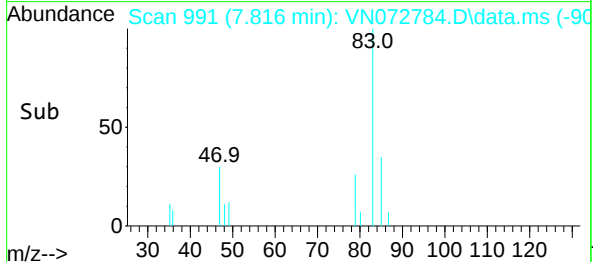
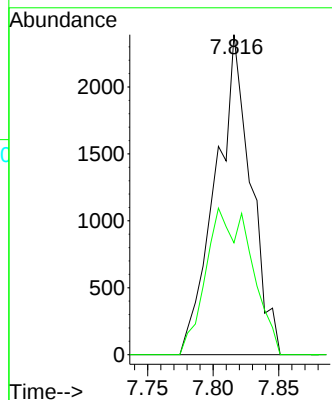
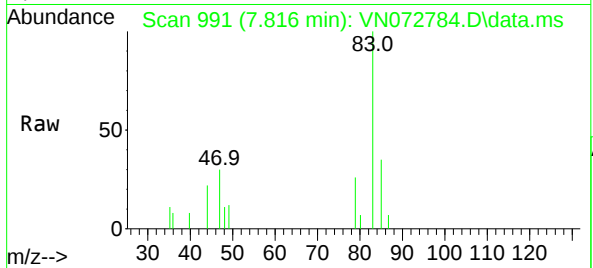




#25
Chloroform
Concen: 0.865 ug/l
RT: 7.816 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

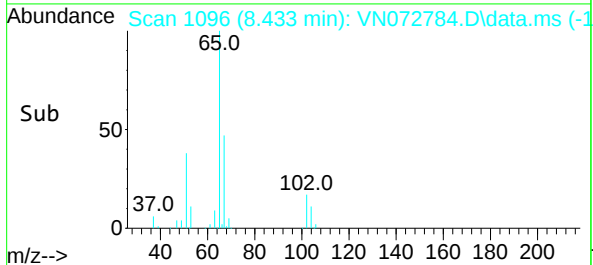
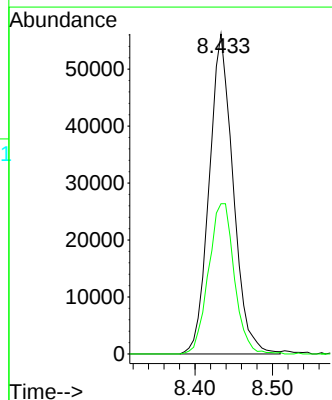
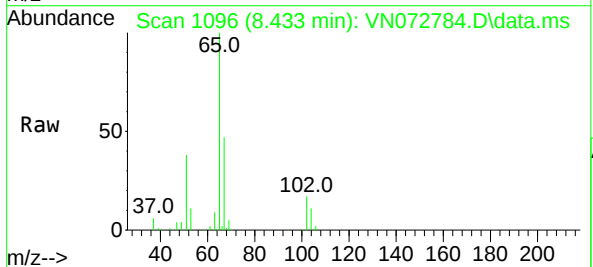
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

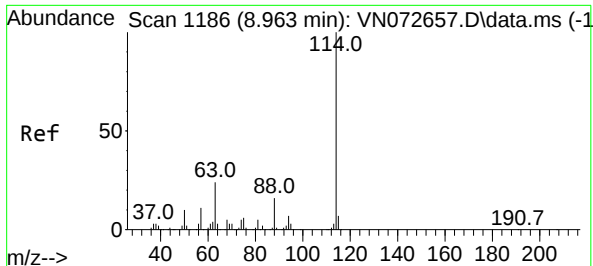
Tgt Ion: 83 Resp: 4478
Ion Ratio Lower Upper
83 100
85 34.9 51.3 76.9#



#27
1,2-Dichloroethane-d4
Concen: 32.940 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. 0.000 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

Tgt Ion: 65 Resp: 120590
Ion Ratio Lower Upper
65 100
67 50.5 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: VN072784.D

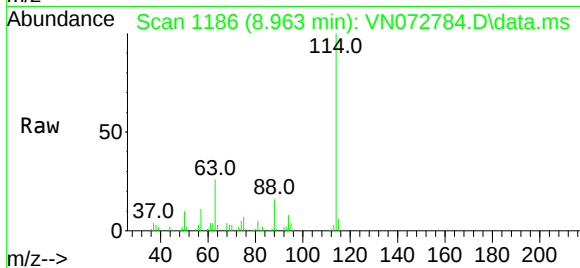
Acq: 11 Jun 2022 12:52

Instrument :

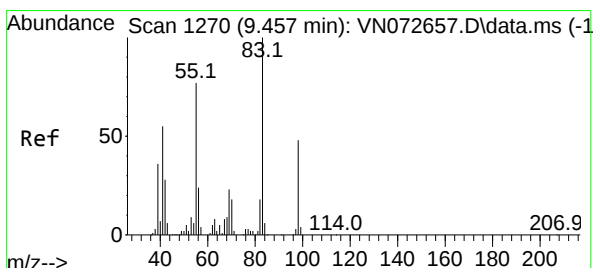
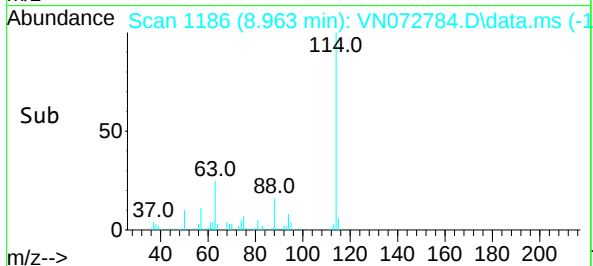
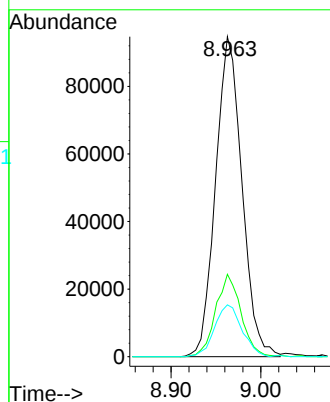
MSVOA_N

ClientSampleId :

220608031-05-TRIP-BLANK



Tgt Ion:	114	Resp:	193207
Ion Ratio	Lower	Upper	
114	100		
63	24.7	15.8	23.6#
88	16.8	11.6	17.4



#38

Methylcyclohexane

Concen: 0.248 ug/l

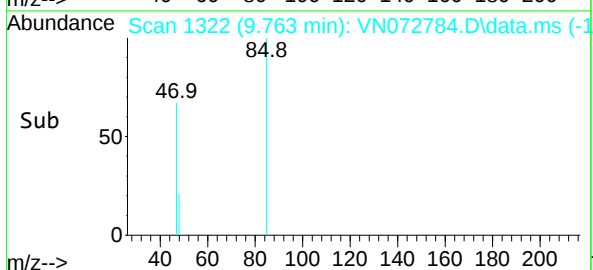
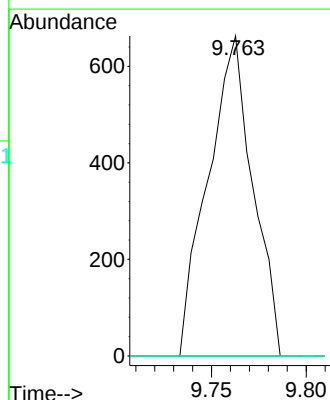
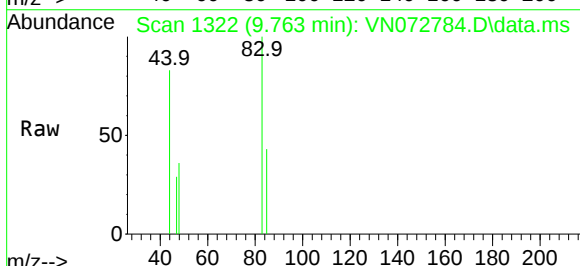
RT: 9.763 min Scan# 1322

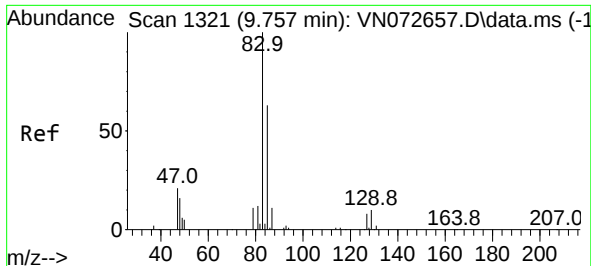
Delta R.T. 0.306 min

Lab File: VN072784.D

Acq: 11 Jun 2022 12:52

Tgt Ion:	83	Resp:	1091
Ion Ratio	Lower	Upper	
83	100		
55	0.0	35.1	105.3#
98	0.0	23.4	70.2#

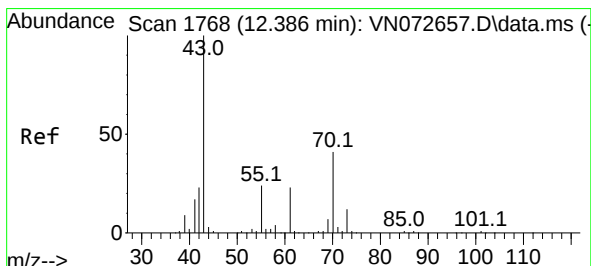
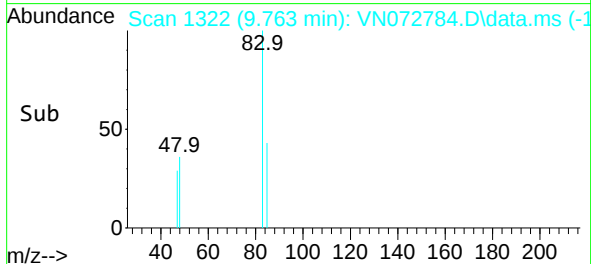
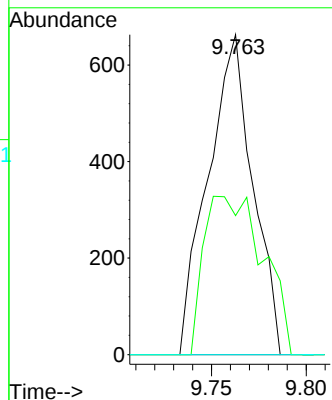
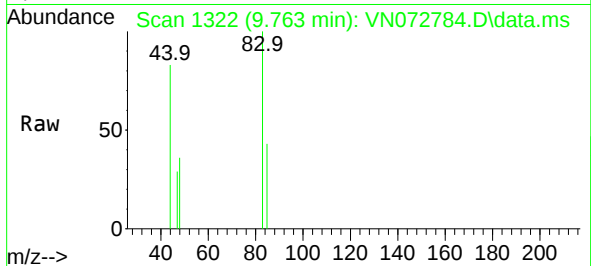




#41
Bromodichloromethane
Concen: 0.248 ug/l
RT: 9.763 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

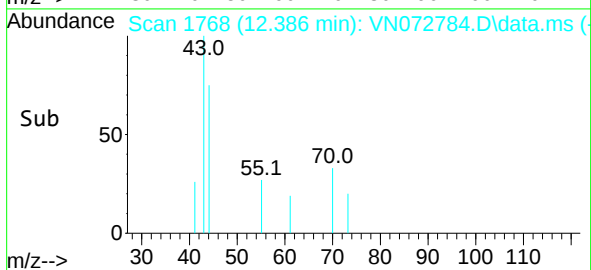
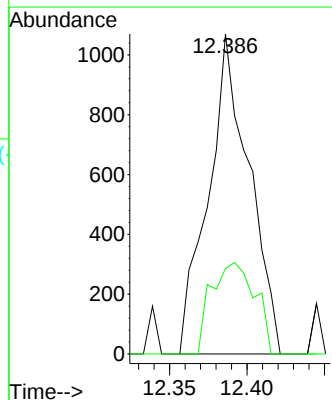
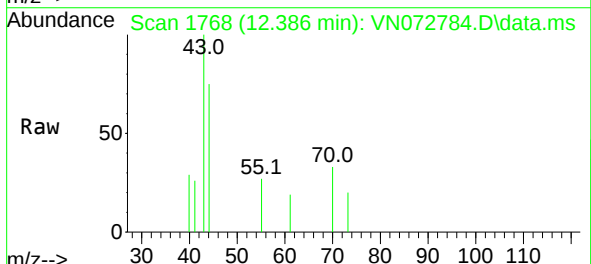
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

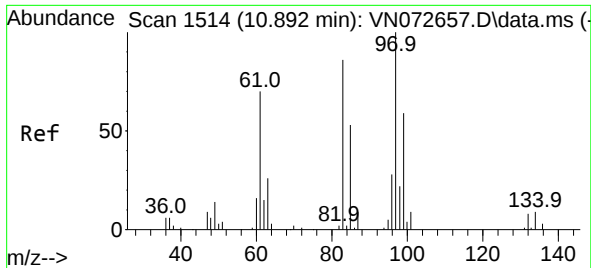
Tgt Ion: 83 Resp: 1091
Ion Ratio Lower Upper
83 100
85 43.4 54.1 81.1#
127 0.0 7.6 11.4#



#47
n-amyl Acetate
Concen: 0.301 ug/l
RT: 12.386 min Scan# 1768
Delta R.T. 0.000 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

Tgt Ion: 43 Resp: 1954
Ion Ratio Lower Upper
43 100
55 30.8 19.0 28.6#

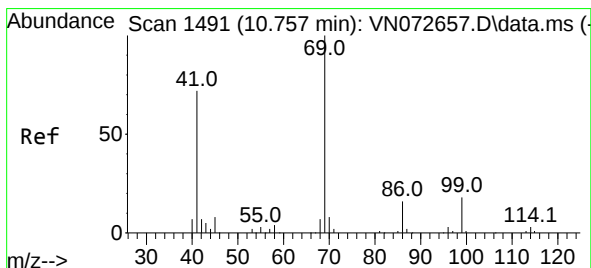
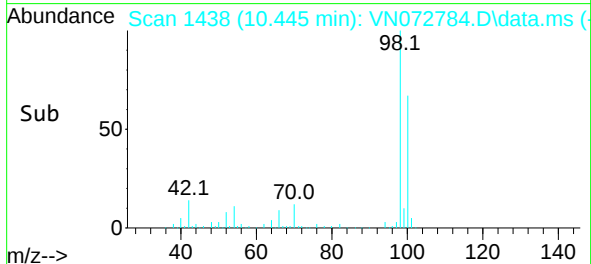
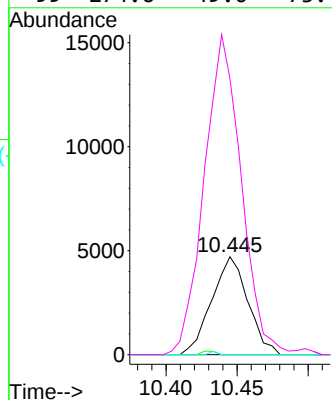
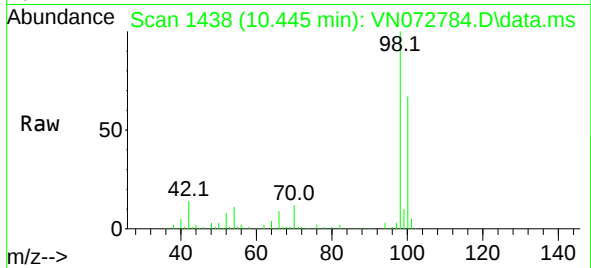




#50
1,1,2-Trichloroethane
Concen: 2.878 ug/l
RT: 10.445 min Scan# 1438
Delta R.T. -0.447 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

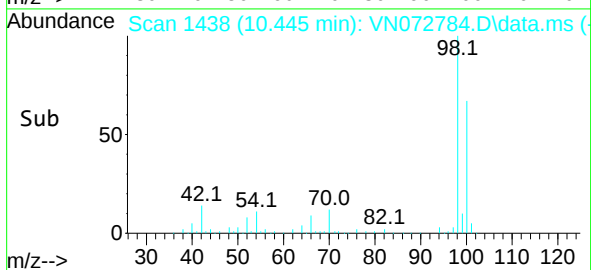
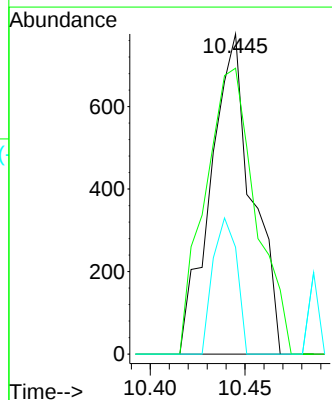
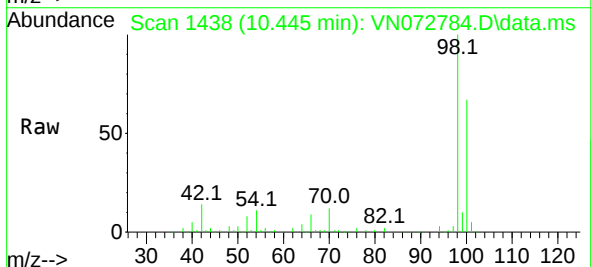
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

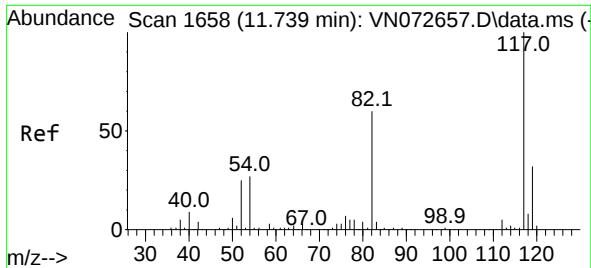
Tgt Ion:	97	Resp:	8361
Ion	Ratio	Lower	Upper
97	100		
83	0.0	67.2	100.8#
85	0.0	43.0	64.4#
99	274.6	49.0	73.4#



#51
Ethyl methacrylate
Concen: 0.225 ug/l
RT: 10.445 min Scan# 1438
Delta R.T. -0.312 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

Tgt Ion:	69	Resp:	1186
Ion	Ratio	Lower	Upper
69	100		
41	89.3	33.0	98.9
39	33.4	25.4	76.4

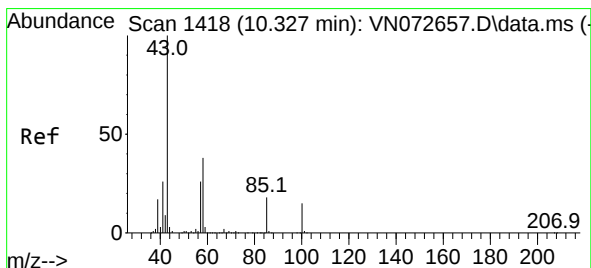
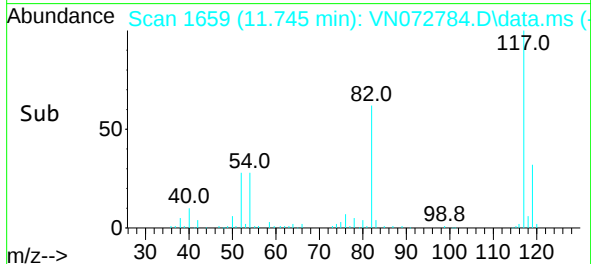
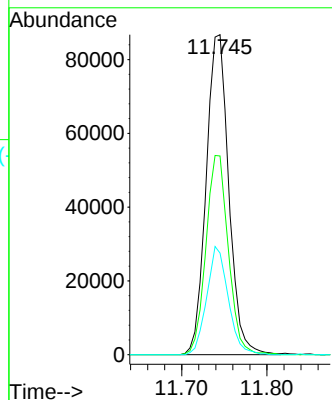
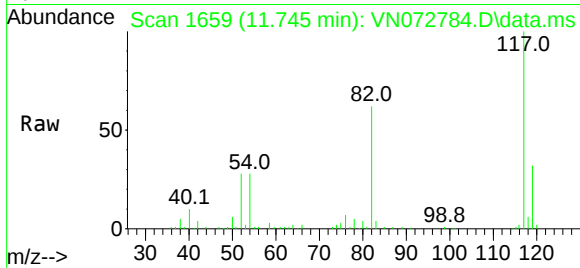




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.745 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

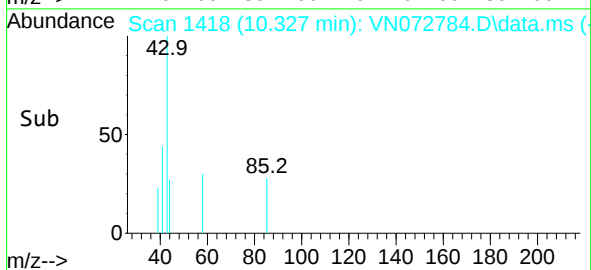
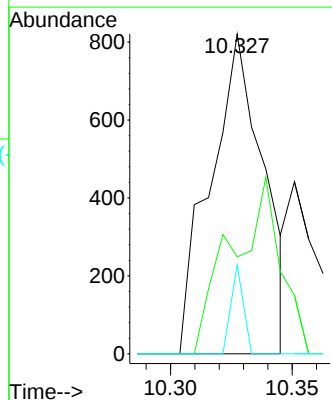
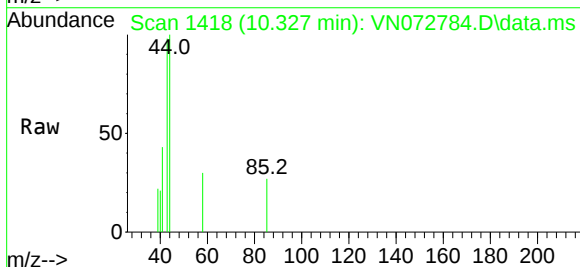
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

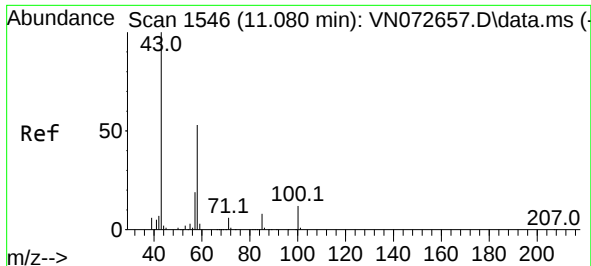
Tgt Ion:117 Resp: 160114
Ion Ratio Lower Upper
117 100
82 61.4 43.6 65.4
119 32.1 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.260 ug/l
RT: 10.327 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

Tgt Ion: 43 Resp: 1248
Ion Ratio Lower Upper
43 100
58 20.4 30.0 45.0#
85 0.0 15.0 22.6#

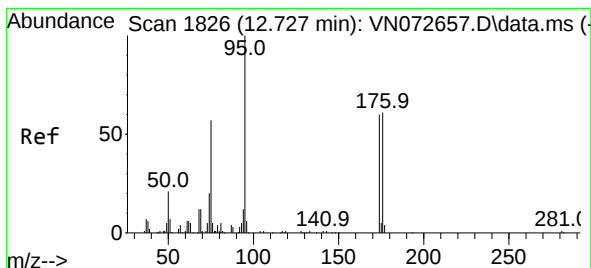
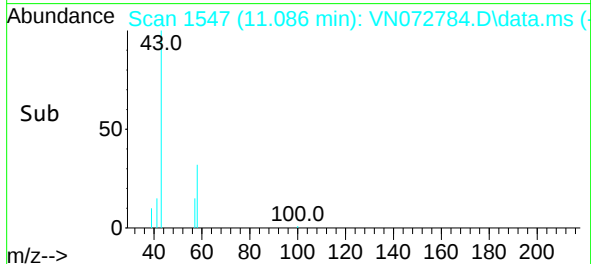
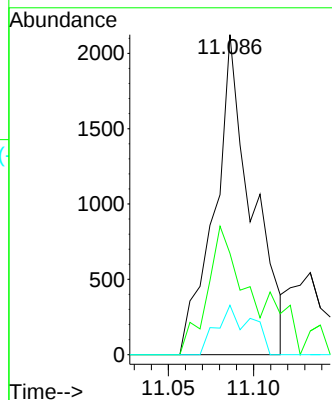
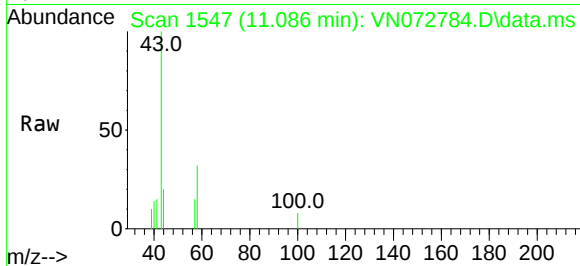




#59
2-Hexanone
Concen: 0.891 ug/l
RT: 11.086 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

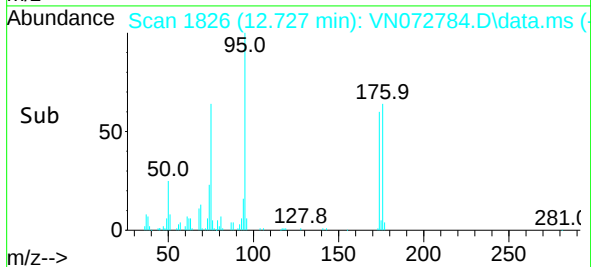
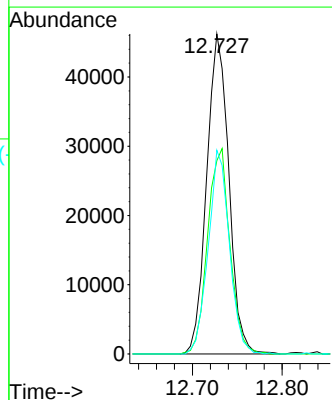
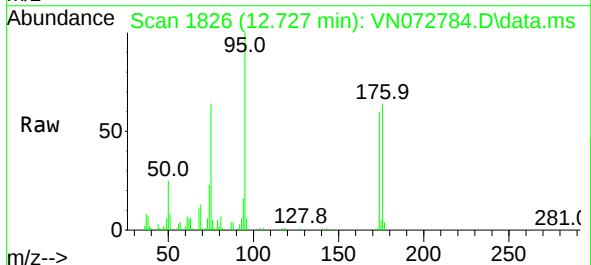
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

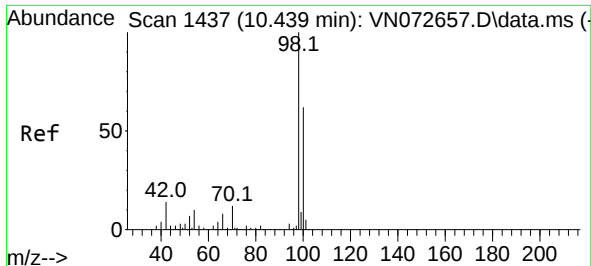
Tgt Ion: 43 Resp: 3245
Ion Ratio Lower Upper
43 100
58 38.3 42.2 63.2#
57 9.2 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 24.057 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

Tgt Ion: 95 Resp: 79223
Ion Ratio Lower Upper
95 100
174 65.0 62.9 94.3
176 60.7 61.0 91.4#

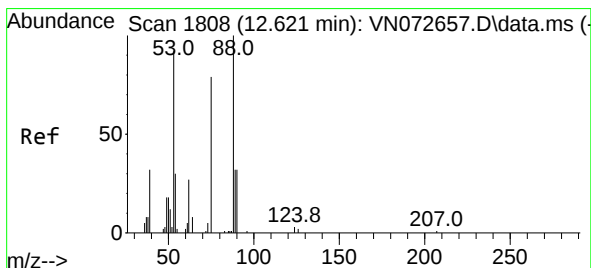
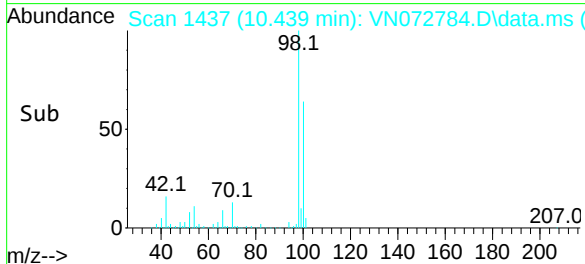
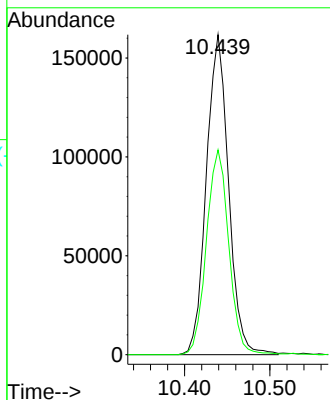
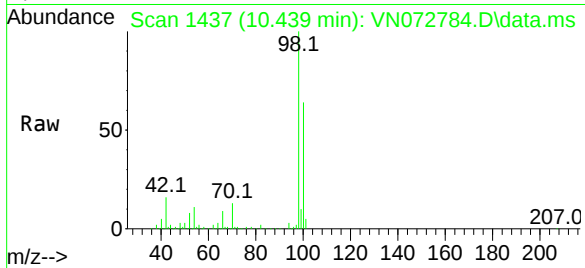




#63
Toluene-d8
Concen: 33.002 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

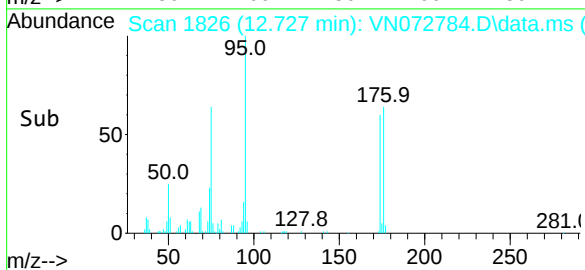
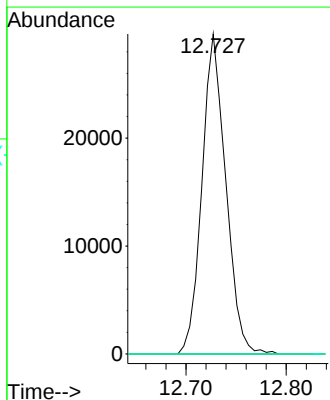
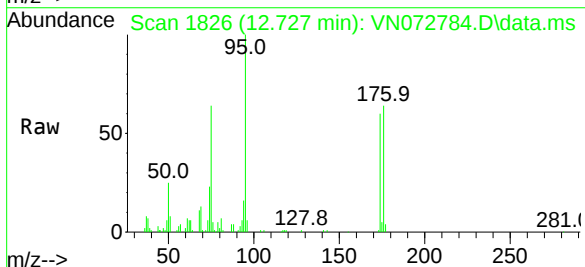
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

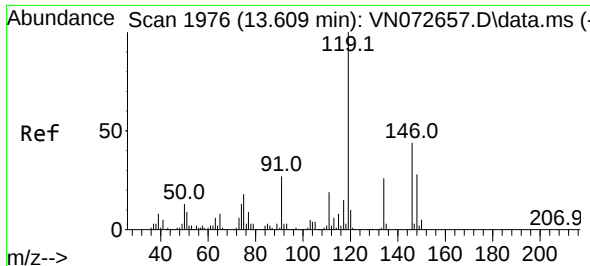
Tgt Ion: 98 Resp: 292713
Ion Ratio Lower Upper
98 100
100 64.6 50.6 76.0



#77
t-1,4-Dichloro-2-butene
Concen: 32.480 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

Tgt Ion: 75 Resp: 49010
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#

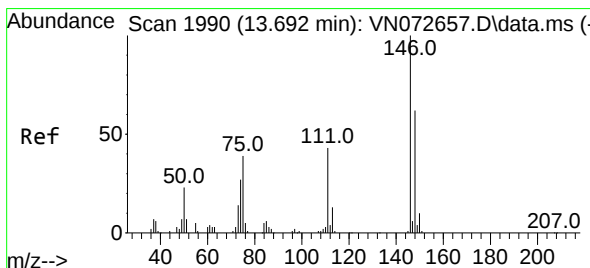
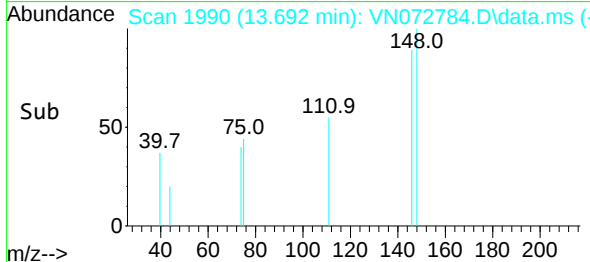
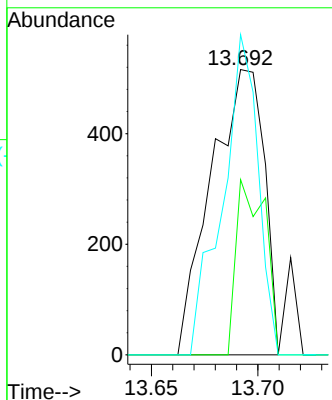
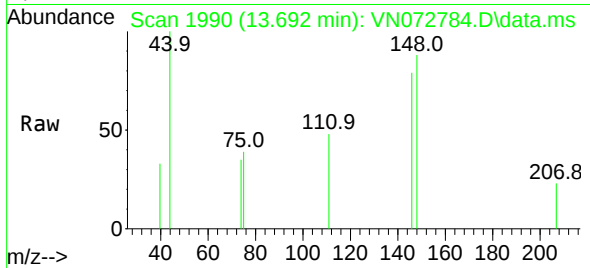




#83
1,3-Dichlorobenzene
Concen: 0.207 ug/l
RT: 13.692 min Scan# 1990
Delta R.T. 0.082 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

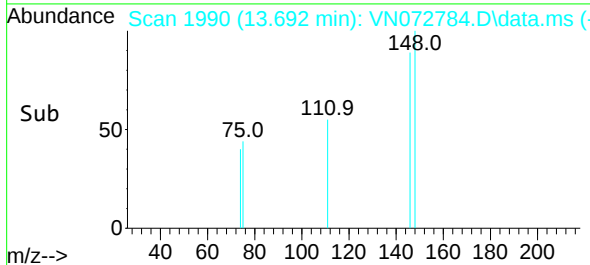
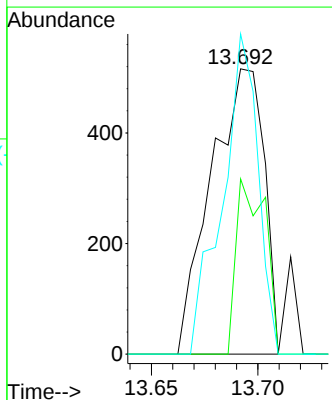
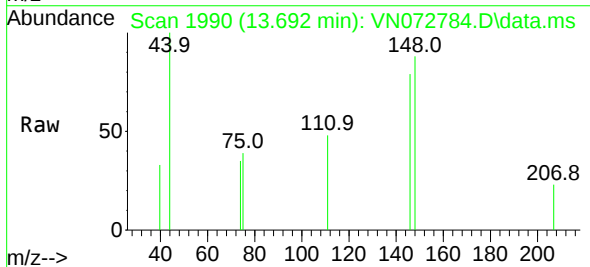
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

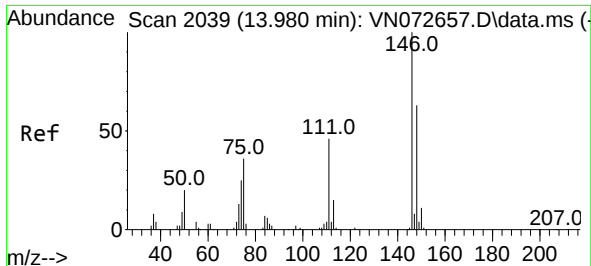
Tgt Ion:	146	Resp:	892
Ion Ratio	Lower	Upper	
146	100		
111	33.6	20.8	62.2
148	75.7	31.4	94.3



#84
1,4-Dichlorobenzene
Concen: 0.213 ug/l
RT: 13.692 min Scan# 1990
Delta R.T. 0.000 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

Tgt Ion:	146	Resp:	892
Ion Ratio	Lower	Upper	
146	100		
111	33.6	19.5	58.5
148	75.7	31.1	93.5

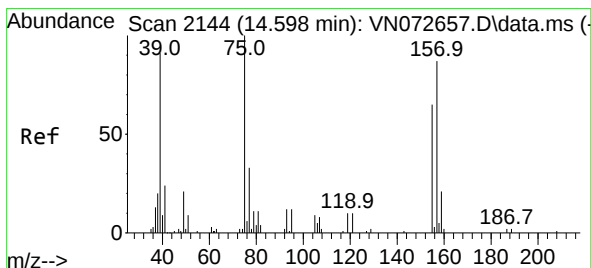
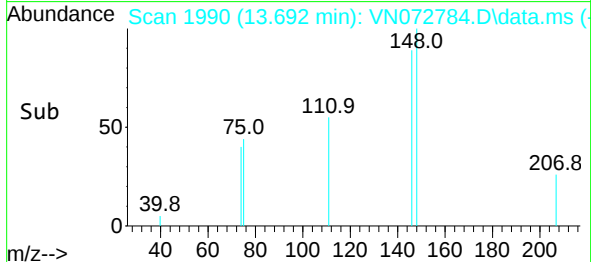
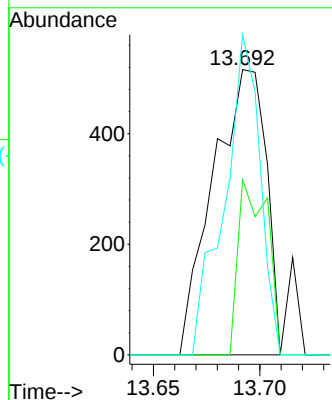
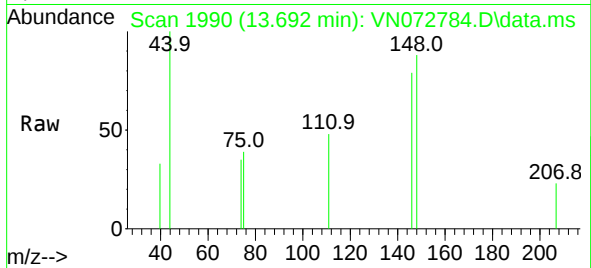




#87
1,2-Dichlorobenzene
Concen: 0.209 ug/l
RT: 13.692 min Scan# 1990
Delta R.T. -0.288 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

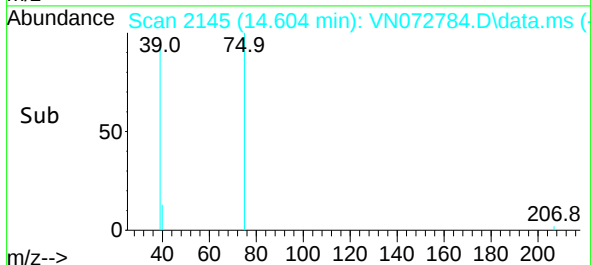
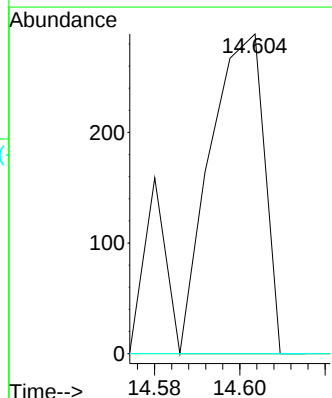
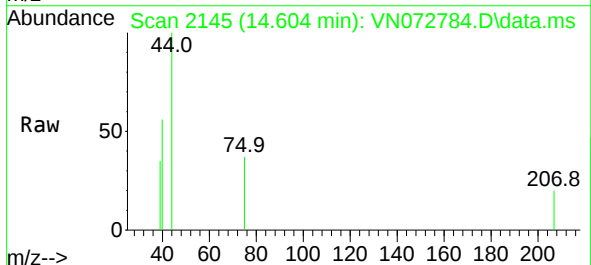
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

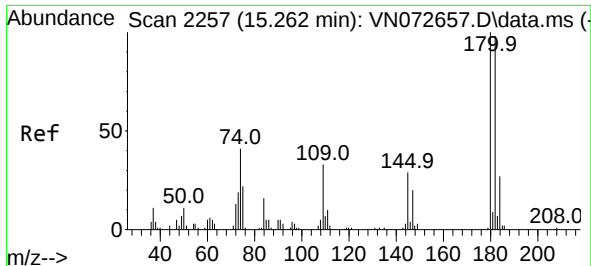
Tgt Ion:146 Resp: 892
Ion Ratio Lower Upper
146 100
111 33.6 21.4 64.2
148 75.7 32.5 97.4



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.247 ug/l
RT: 14.604 min Scan# 2145
Delta R.T. 0.006 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

Tgt Ion: 75 Resp: 254
Ion Ratio Lower Upper
75 100
155 0.0 63.8 95.8#
157 0.0 77.9 116.9#

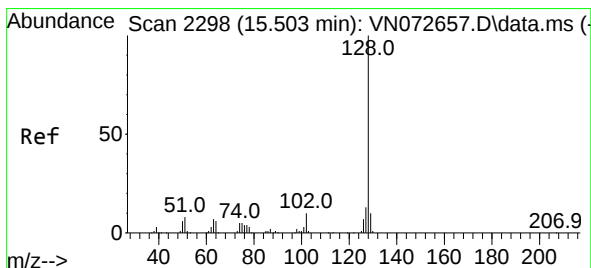
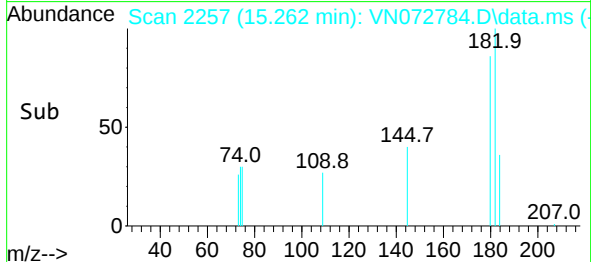
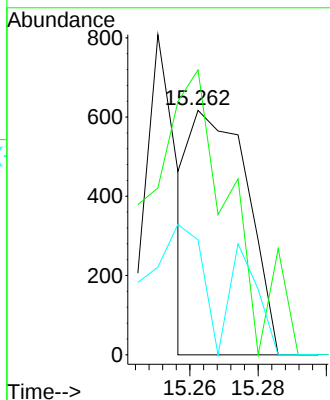
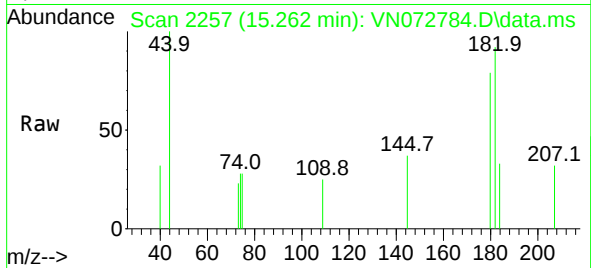




#89
1,2,4-Trichlorobenzene
Concen: 0.332 ug/l
RT: 15.262 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

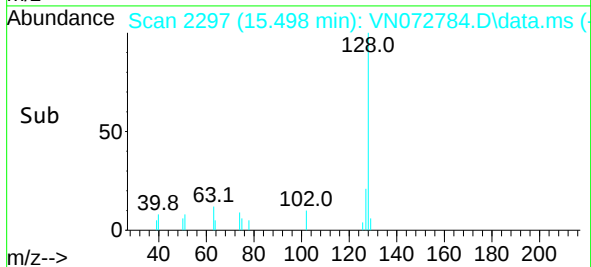
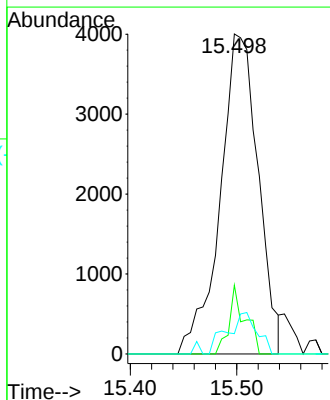
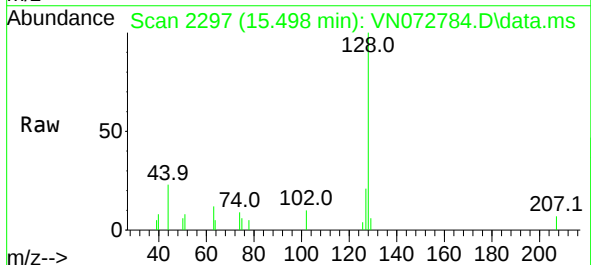
Instrument :
MSVOA_N
ClientSampleId :
220608031-05-TRIP-BLANK

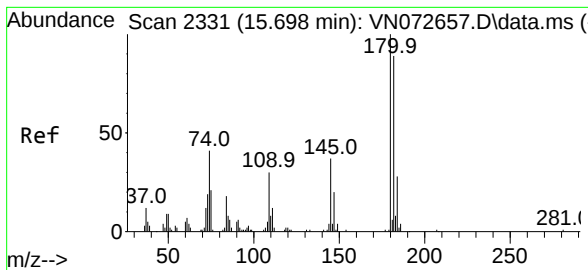
Tgt Ion:180 Resp: 715
Ion Ratio Lower Upper
180 100
182 156.1 77.7 116.5#
145 50.5 26.6 39.8#



#91
Naphthalene
Concen: 1.154 ug/l
RT: 15.498 min Scan# 2297
Delta R.T. -0.006 min
Lab File: VN072784.D
Acq: 11 Jun 2022 12:52

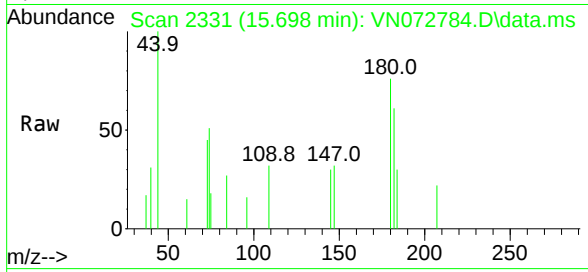
Tgt Ion:128 Resp: 9904
Ion Ratio Lower Upper
128 100
127 6.0 10.7 16.1#
129 3.8 9.0 13.6#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.520 ug/l
 RT: 15.698 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN072784.D
 Acq: 11 Jun 2022 12:52

Instrument :
 MSVOA_N
 ClientSampleId :
 220608031-05-TRIP-BLANK



Tgt Ion:	180	Resp:	1138
Ion Ratio	Lower	Upper	
180	100		
182	45.7	0.0	190.0
145	36.5	0.0	67.8

