

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031722\
 Data File : VN071359.D
 Acq On : 17 Mar 2022 18:22
 Operator : JC\MD
 Sample : N2002-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 220316043-02-VOA

Quant Time: Mar 18 07:02:45 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N031722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 17 06:37:08 2022
 Response via : Initial Calibration

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

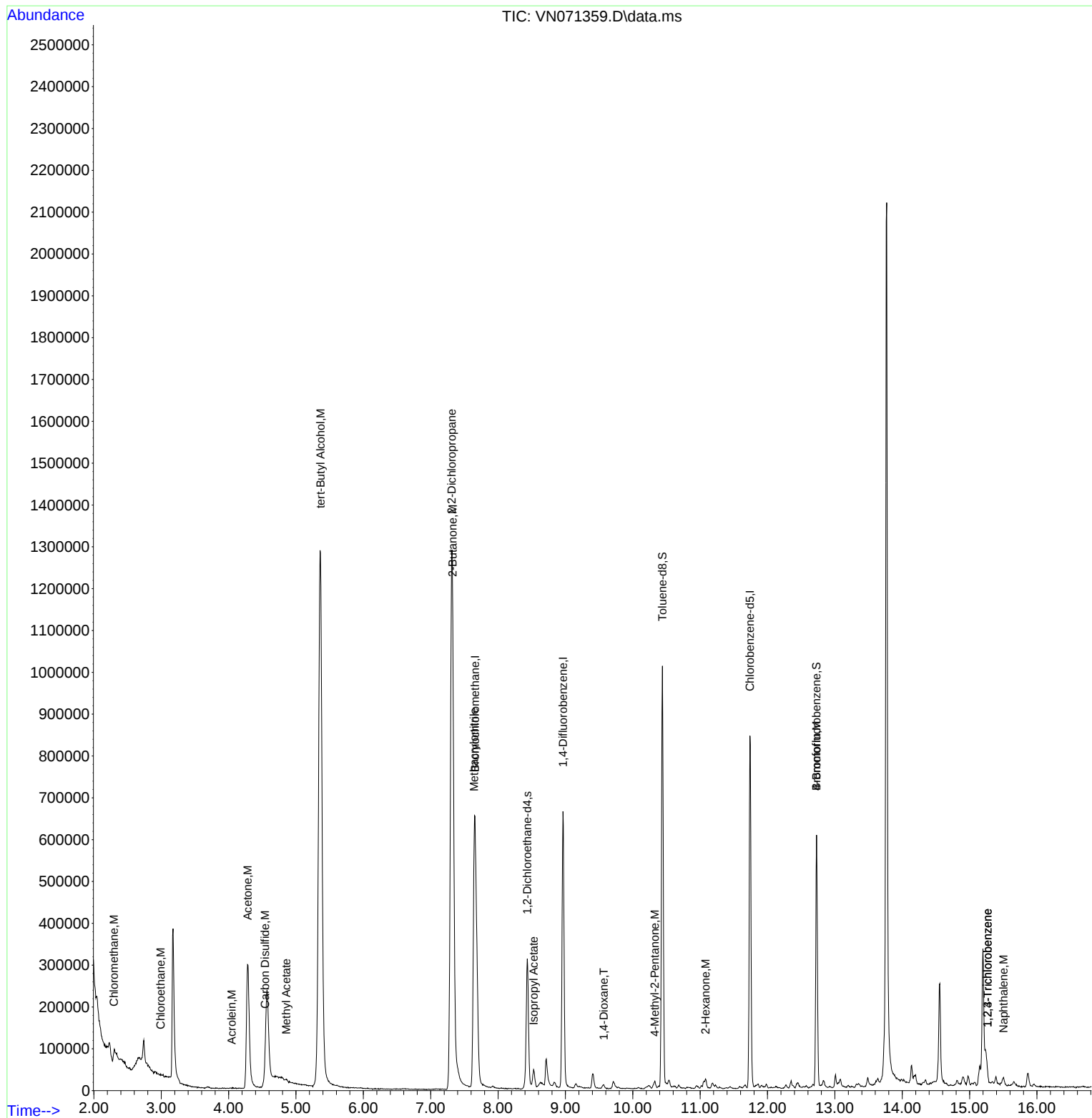
Internal Standards						
1) Bromochloromethane	7.657	128	96347	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	564071	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	492019	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	249309	32.592	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	108.633%
60) 4-Bromofluorobenzene	12.727	95	209732	27.592	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	91.967%
63) Toluene-d8	10.439	98	686209	30.318	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.067%
Target Compounds						
					Qvalue	
3) Chloromethane	2.299	50	5458	0.657	ug/l	96
6) Chloroethane	2.993	64	1902	0.409	ug/l #	44
12) Methyl Acetate	4.857	43	7953	0.754	ug/l	91
13) Acrolein	4.046	56	426	0.308	ug/l #	25
15) Acetone	4.281	58	174975	151.450	ug/l	96
16) Carbon Disulfide	4.540	76	56848	3.816	ug/l	98
23) tert-Butyl Alcohol	5.363	59	2552093	1569.866	ug/l #	100
30) 2-Butanone	7.328	43	989409	153.927	ug/l	92
31) 2,2-Dichloropropane	7.310	77	69715	8.192	ug/l #	53
35) Methacrylonitrile	7.645	41	47566	7.638	ug/l #	40
44) Isopropyl Acetate	8.528	43	8588	0.427	ug/l #	63
45) 1,4-Dioxane	9.569	88	4174	23.317	ug/l #	64
56) Bromoform	12.727	173	2008	0.364	ug/l #	1
58) 4-Methyl-2-Pentanone	10.328	43	14314	1.212	ug/l #	84
59) 2-Hexanone	11.081	43	12985	1.479	ug/l #	80
89) 1,2,4-Trichlorobenzene	15.268	180	2139	0.420	ug/l #	93
91) Naphthalene	15.504	128	17813	1.118	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.268	180	2139	0.410	ug/l	94

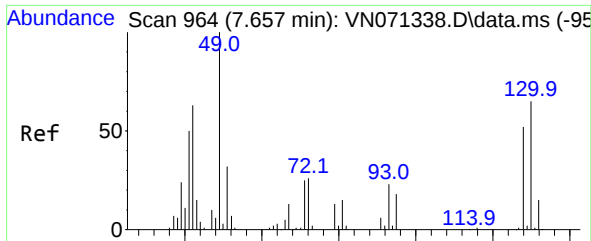
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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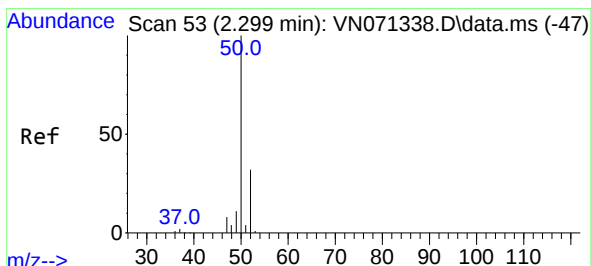
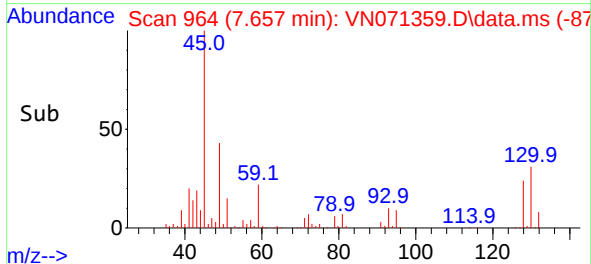
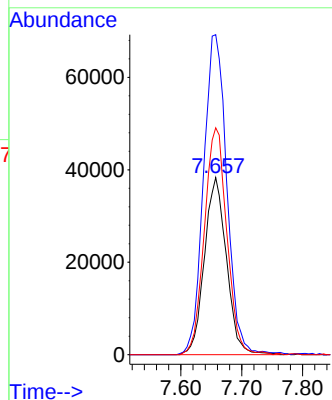
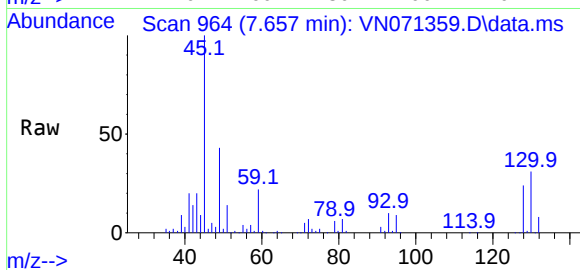




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.657 min Scan# 964
Delta R.T. 0.000 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

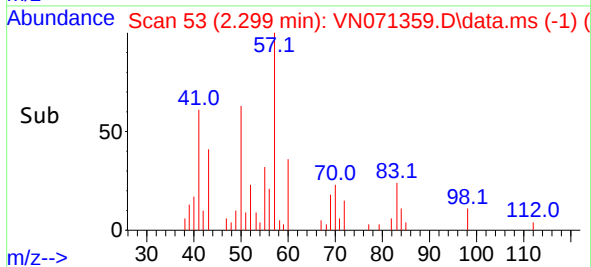
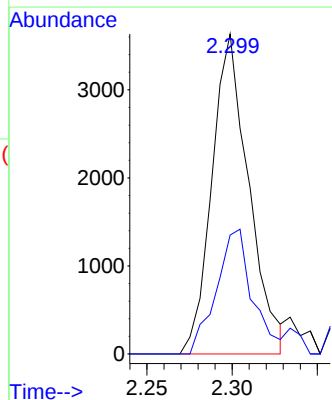
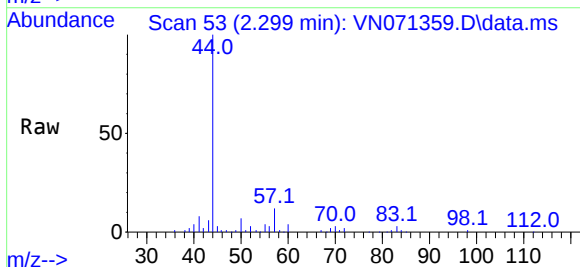
Instrument :
MSVOA_N
ClientSampleId :
220316043-02-VOA

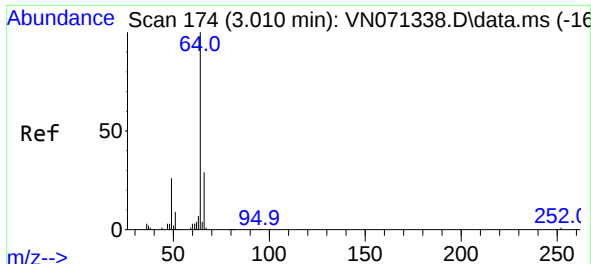
Tgt Ion:	128	Resp:	96347
Ion Ratio	Lower	Upper	
128	100		
49	189.2	0.0	392.3
130	129.9	0.0	320.2



#3
Chloromethane
Concen: 0.657 ug/l
RT: 2.299 min Scan# 53
Delta R.T. 0.000 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Tgt Ion:	50	Resp:	5458
Ion Ratio	Lower	Upper	
50	100		
52	37.2	27.8	41.6

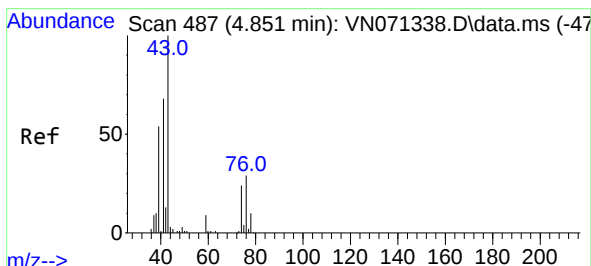
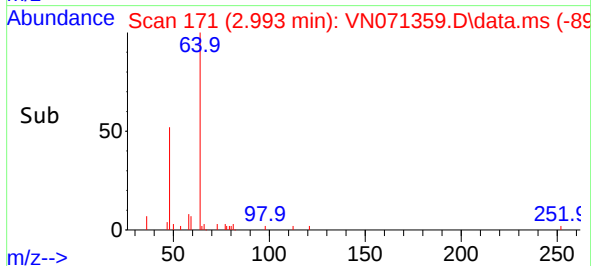
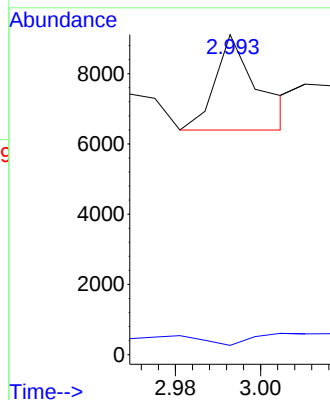
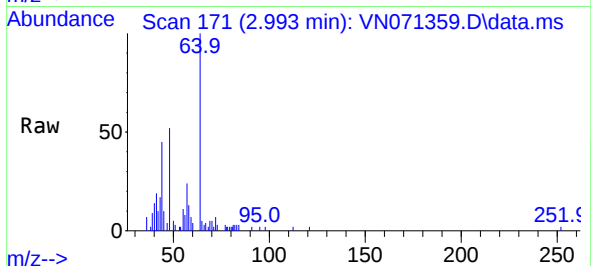




#6
Chloroethane
Concen: 0.409 ug/l
RT: 2.993 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

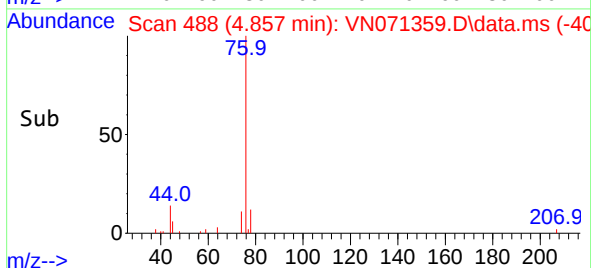
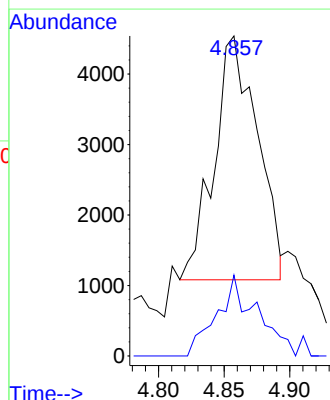
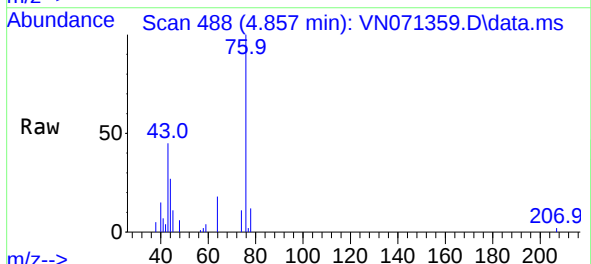
Instrument :
MSVOA_N
ClientSampleId :
220316043-02-VOA

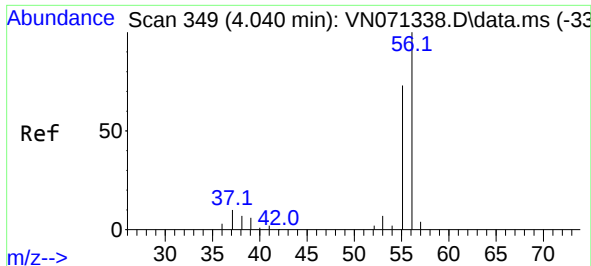
Tgt Ion: 64 Resp: 1902
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



#12
Methyl Acetate
Concen: 0.754 ug/l
RT: 4.857 min Scan# 488
Delta R.T. 0.006 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Tgt Ion: 43 Resp: 7953
Ion Ratio Lower Upper
43 100
74 30.7 20.8 31.2

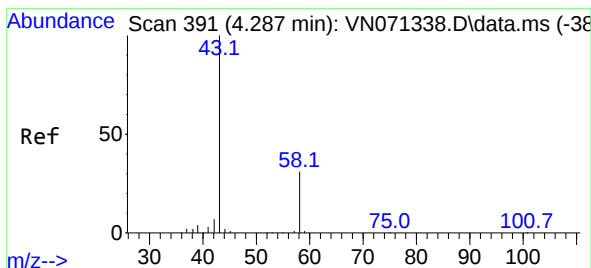
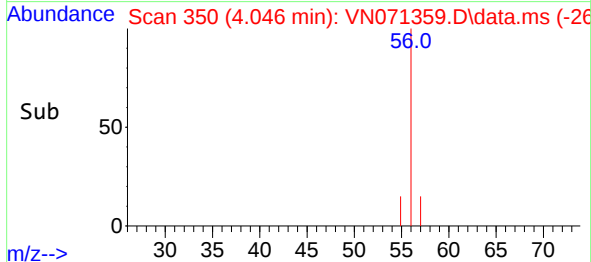
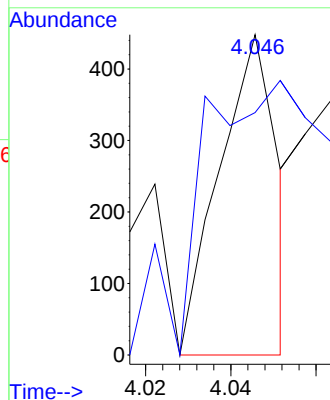
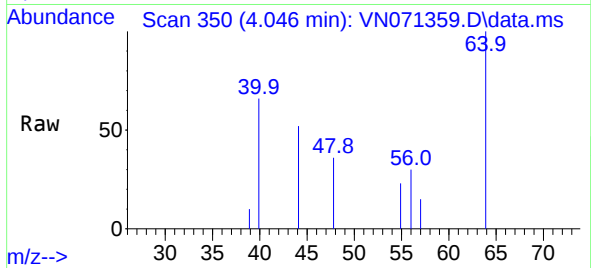




#13
Acrolein
Concen: 0.308 ug/l
RT: 4.046 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

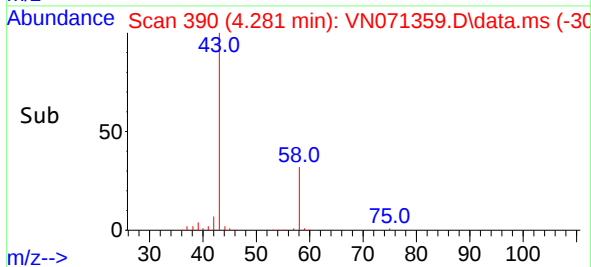
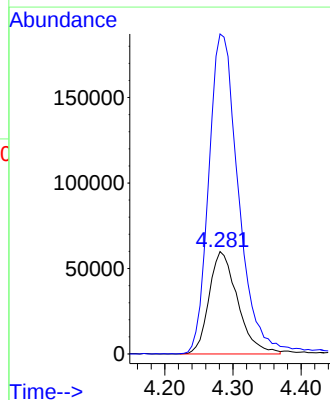
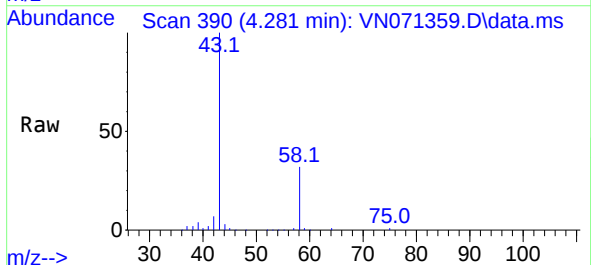
Instrument :
MSVOA_N
ClientSampleId :
220316043-02-VOA

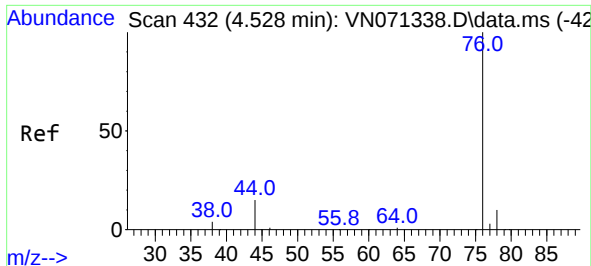
Tgt Ion: 56 Resp: 426
Ion Ratio Lower Upper
56 100
55 134.3 57.6 86.4#



#15
Acetone
Concen: 151.450 ug/l
RT: 4.281 min Scan# 390
Delta R.T. -0.006 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Tgt Ion: 58 Resp: 174975
Ion Ratio Lower Upper
58 100
43 312.4 256.6 384.8

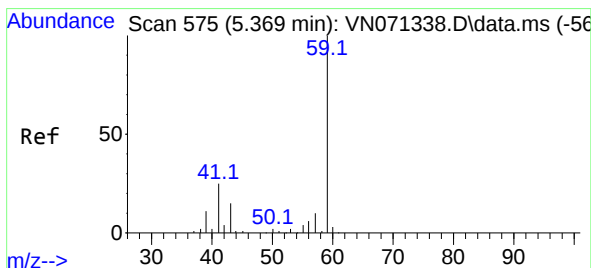
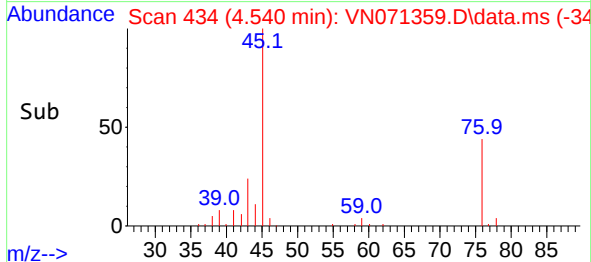
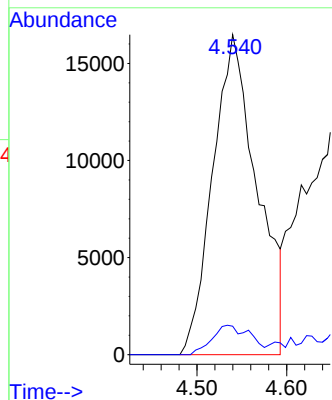
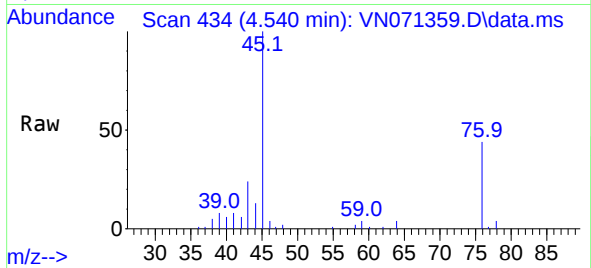




#16
Carbon Disulfide
Concen: 3.816 ug/l
RT: 4.540 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

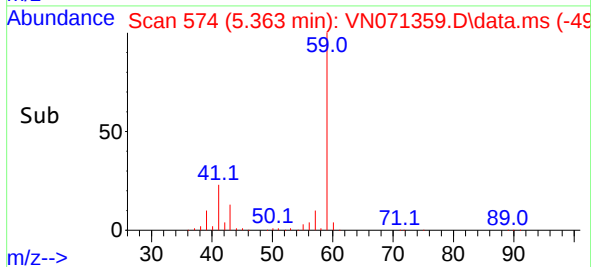
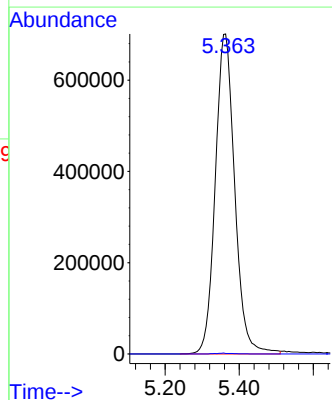
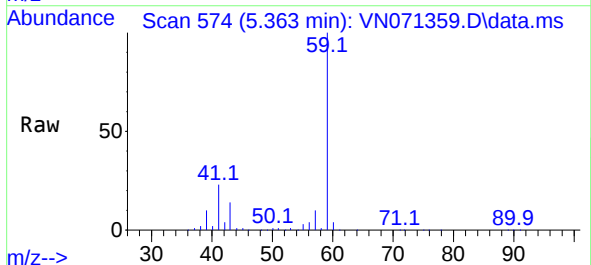
Instrument :
MSVOA_N
ClientSampleId :
220316043-02-VOA

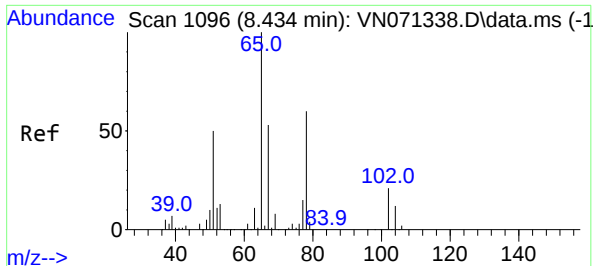
Tgt Ion: 76 Resp: 56848
Ion Ratio Lower Upper
76 100
78 8.9 7.8 11.8



#23
tert-Butyl Alcohol
Concen: 1569.866 ug/l
RT: 5.363 min Scan# 574
Delta R.T. -0.006 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Tgt Ion: 59 Resp: 2552093
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#

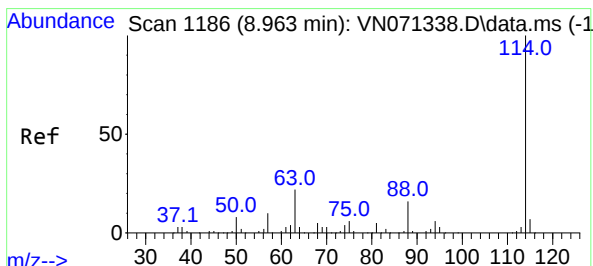
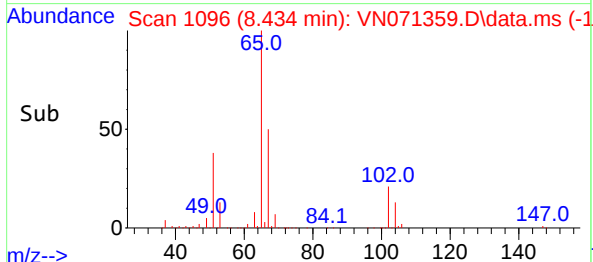
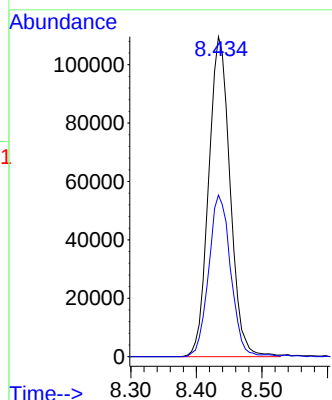
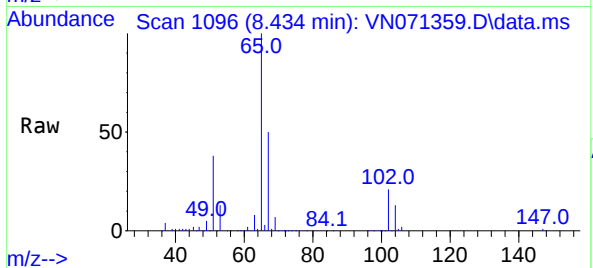




#27
1,2-Dichloroethane-d4
Concen: 32.592 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. 0.000 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

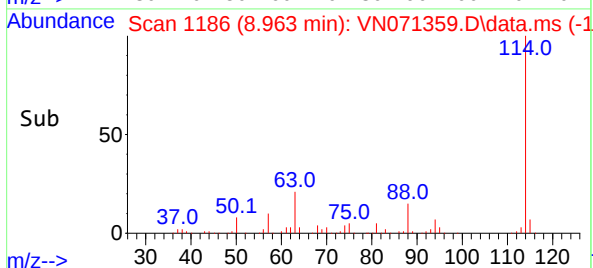
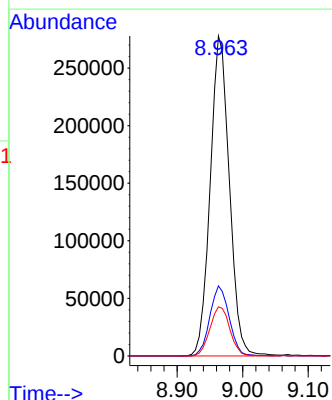
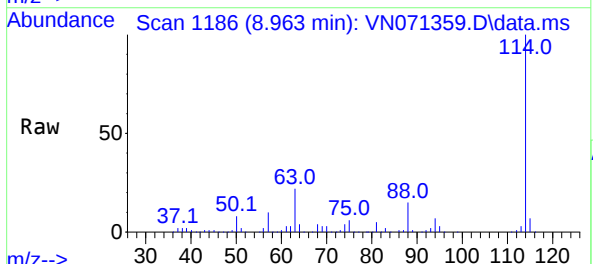
Instrument :
MSVOA_N
ClientSampleId :
220316043-02-VOA

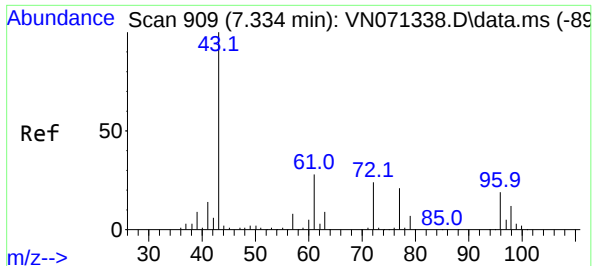
Tgt Ion: 65 Resp: 249309
Ion Ratio Lower Upper
65 100
67 51.5 40.2 60.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. 0.000 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Tgt Ion: 114 Resp: 564071
Ion Ratio Lower Upper
114 100
63 22.1 15.8 23.6
88 15.9 11.6 17.4





#30

2-Butanone

Concen: 153.927 ug/l

RT: 7.328 min Scan# 90

Delta R.T. -0.006 min

Lab File: VN071359.D

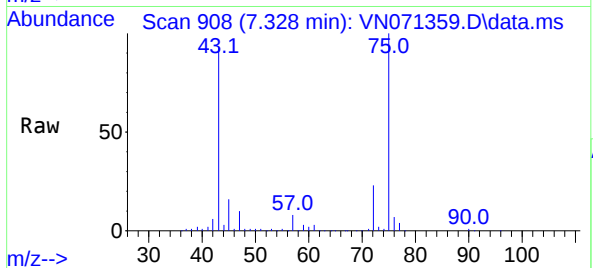
Acq: 17 Mar 2022 18:22

Instrument :

MSVOA_N

ClientSampleId :

220316043-02-VOA



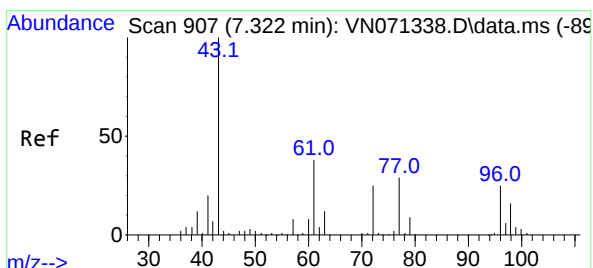
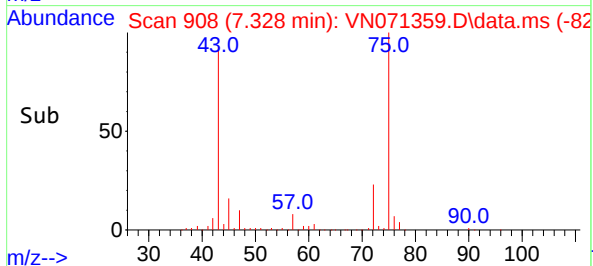
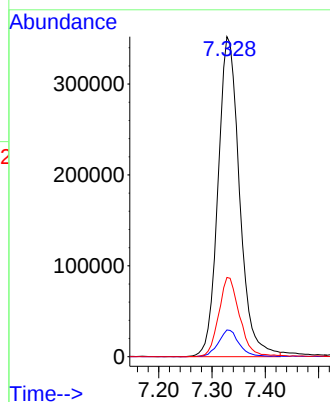
Tgt Ion: 43 Resp: 989409

Ion Ratio Lower Upper

43 100

57 8.1 6.7 10.1

72 23.7 23.2 34.8



#31

2,2-Dichloropropane

Concen: 8.192 ug/l

RT: 7.310 min Scan# 905

Delta R.T. -0.012 min

Lab File: VN071359.D

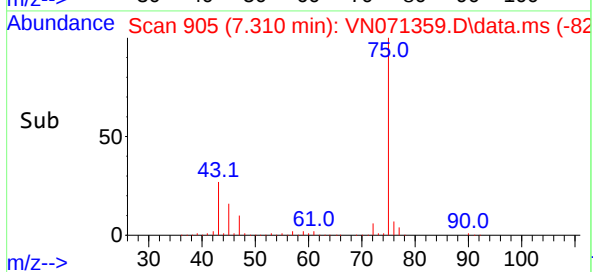
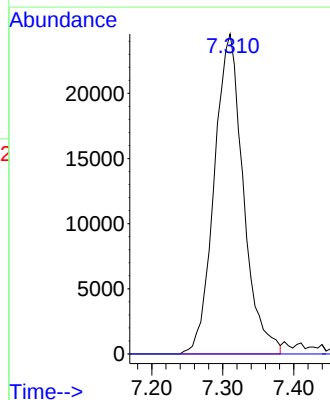
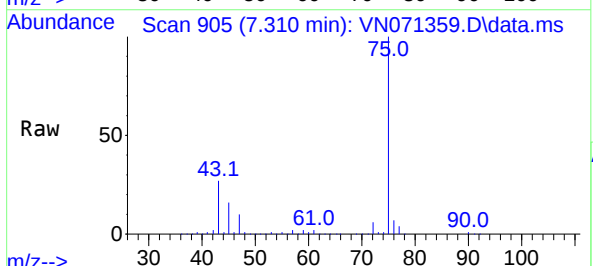
Acq: 17 Mar 2022 18:22

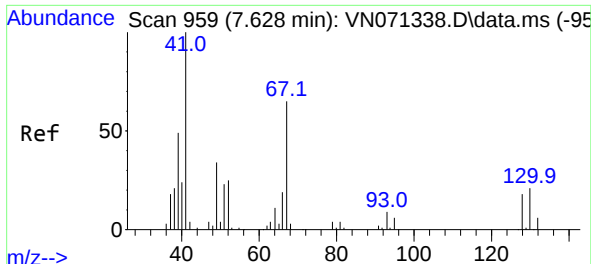
Tgt Ion: 77 Resp: 69715

Ion Ratio Lower Upper

77 100

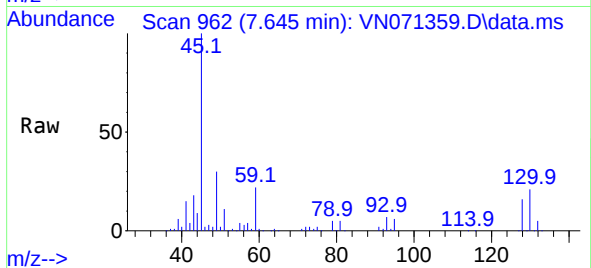
97 0.0 18.3 27.5#



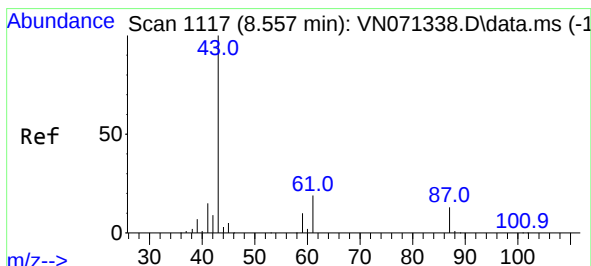
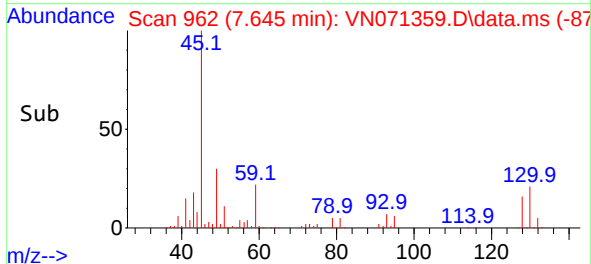
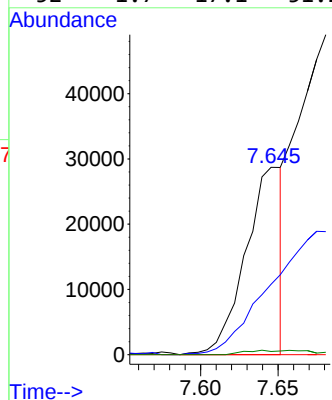


#35
Methacrylonitrile
Concen: 7.638 ug/l
RT: 7.645 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Instrument :
MSVOA_N
ClientSampleId :
220316043-02-VOA

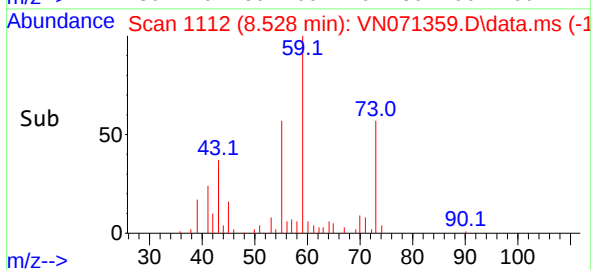
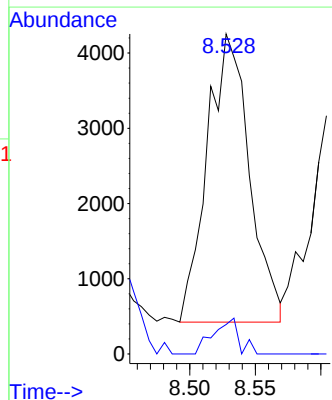
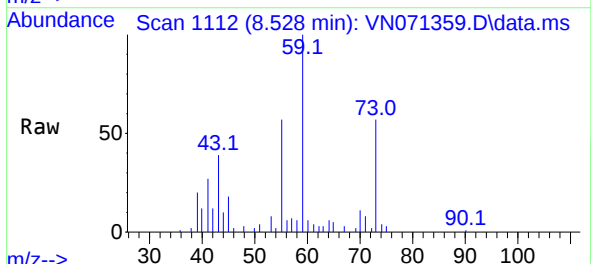


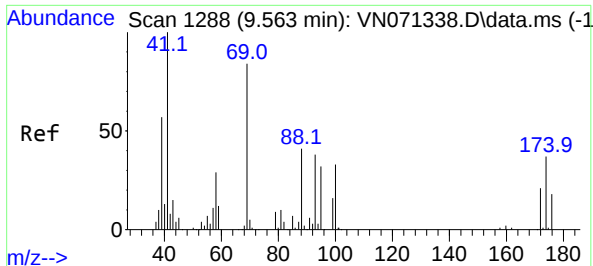
Tgt Ion:	41	Resp:	47566
Ion	Ratio	Lower	Upper
41	100		
39	37.5	28.0	83.9
67	0.0	37.7	113.1#
52	1.7	17.1	51.2#



#44
Isopropyl Acetate
Concen: 0.427 ug/l
RT: 8.528 min Scan# 1112
Delta R.T. -0.029 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Tgt Ion:	43	Resp:	8588
Ion	Ratio	Lower	Upper
43	100		
61	6.7	20.1	30.1#

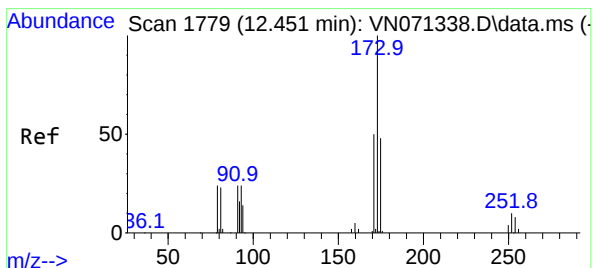
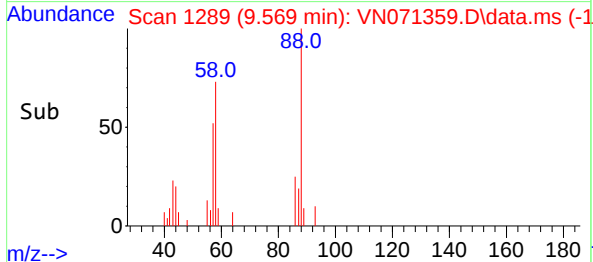
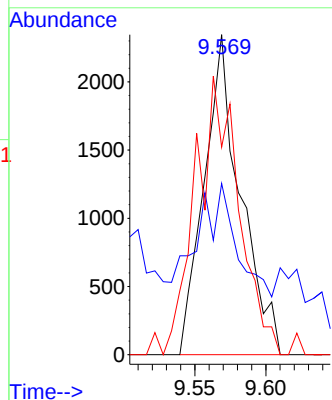
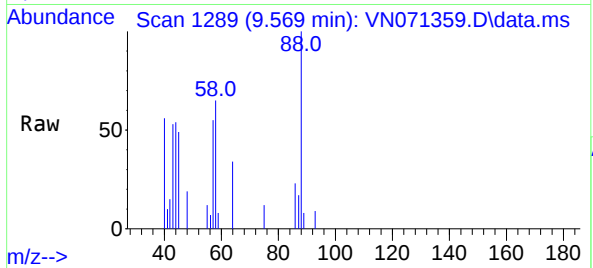




#45
1,4-Dioxane
Concen: 23.317 ug/l
RT: 9.569 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

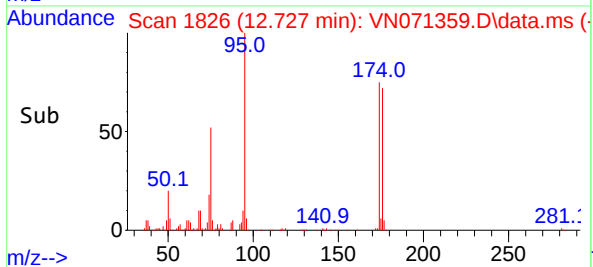
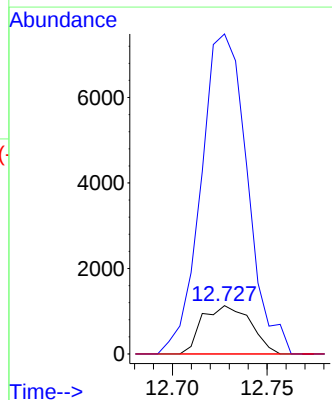
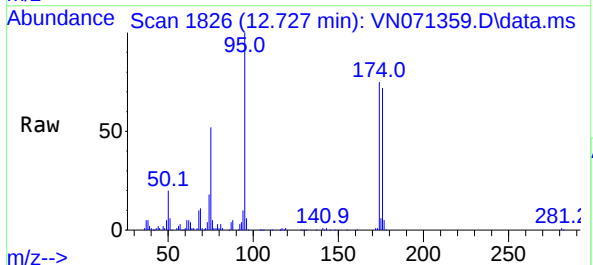
Instrument :
MSVOA_N
ClientSampleId :
220316043-02-VOA

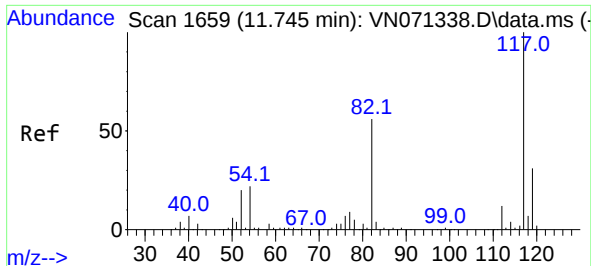
Tgt Ion: 88 Resp: 4174
Ion Ratio Lower Upper
88 100
43 30.8 25.0 37.6
58 102.9 49.4 74.2#



#56
Bromoform
Concen: 0.364 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.277 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Tgt Ion: 173 Resp: 2008
Ion Ratio Lower Upper
173 100
175 634.3 38.6 58.0#
254 0.0 0.0 0.0

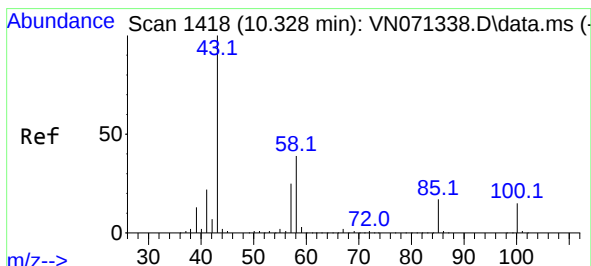
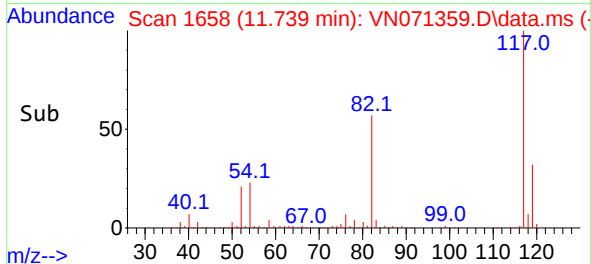
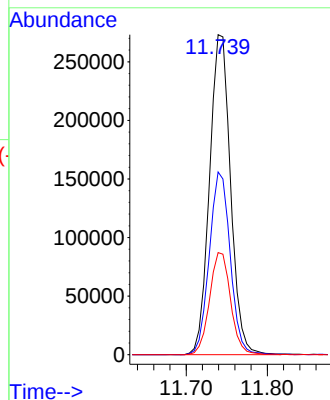
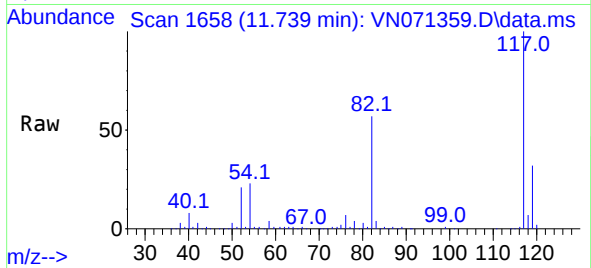




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. -0.006 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

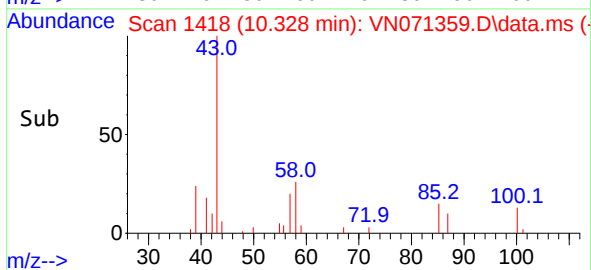
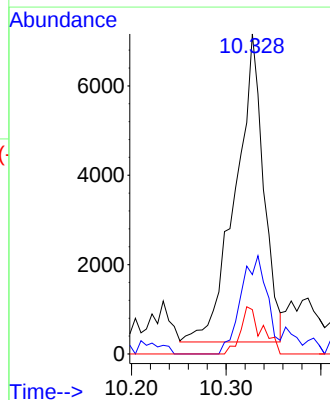
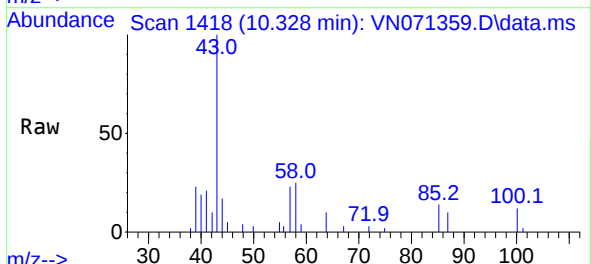
Instrument :
MSVOA_N
ClientSampleId :
220316043-02-VOA

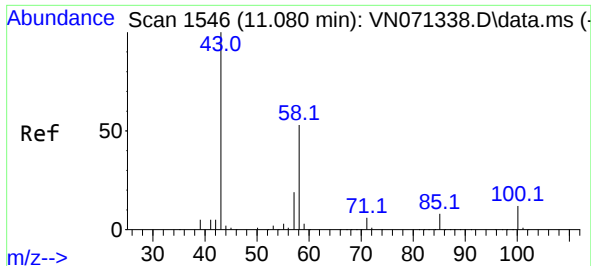
Tgt Ion:117 Resp: 492019
Ion Ratio Lower Upper
117 100
82 56.8 43.6 65.4
119 31.9 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 1.212 ug/l
RT: 10.328 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Tgt Ion: 43 Resp: 14314
Ion Ratio Lower Upper
43 100
58 30.0 30.0 45.0#
85 8.2 15.0 22.6#

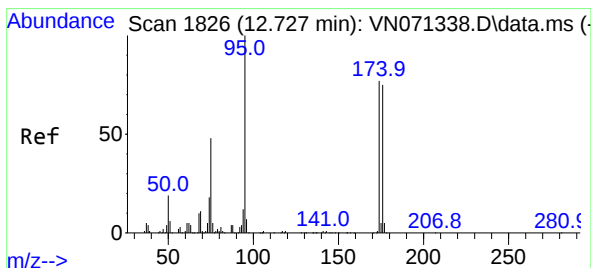
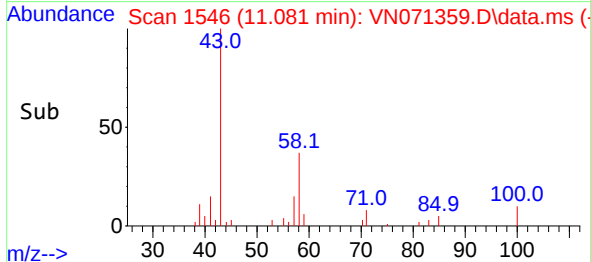
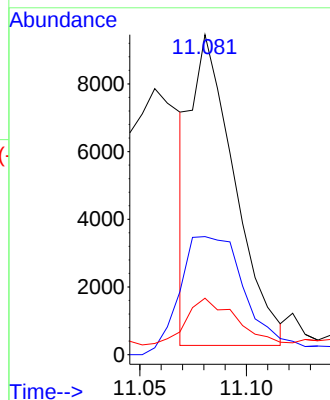
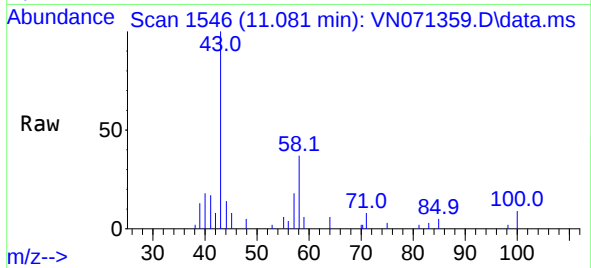




#59
2-Hexanone
Concen: 1.479 ug/l
RT: 11.081 min Scan# 11080
Delta R.T. 0.000 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

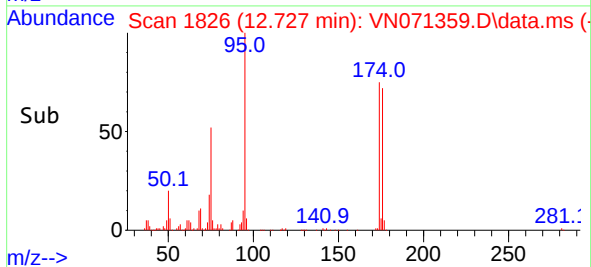
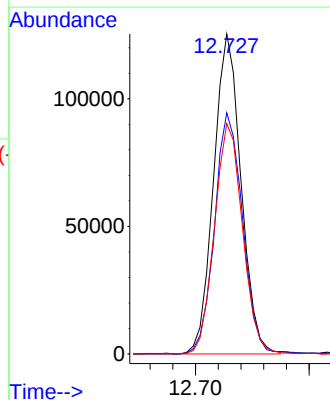
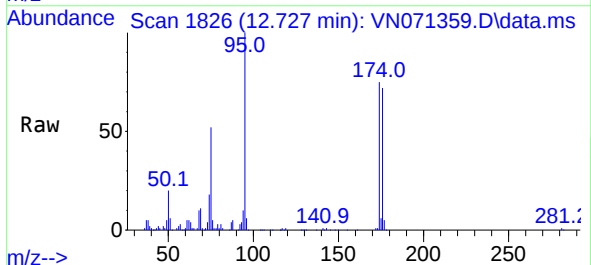
Instrument :
MSVOA_N
ClientSampleId :
220316043-02-VOA

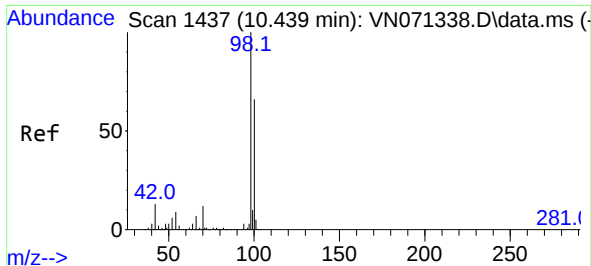
Tgt Ion: 43 Resp: 12985
Ion Ratio Lower Upper
43 100
58 35.9 42.2 63.2#
57 23.3 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 27.592 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Tgt Ion: 95 Resp: 209732
Ion Ratio Lower Upper
95 100
174 77.2 62.9 94.3
176 73.8 61.0 91.4

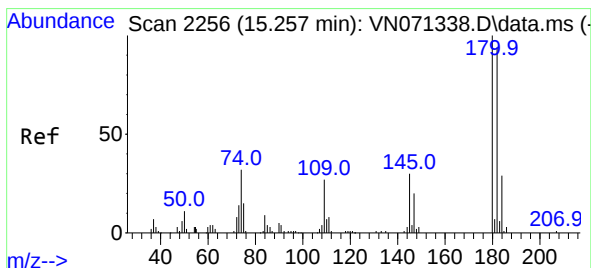
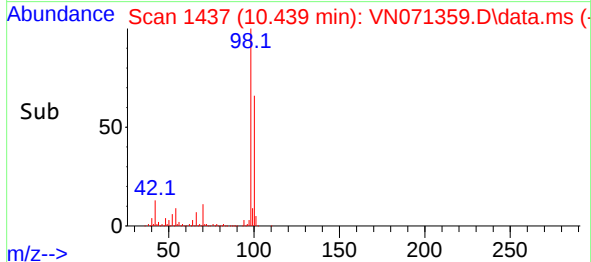
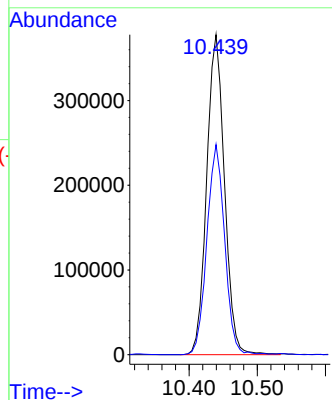
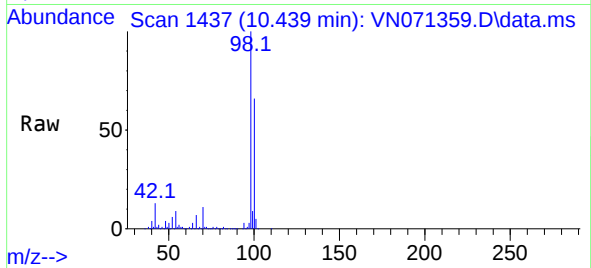




#63
Toluene-d8
Concen: 30.318 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

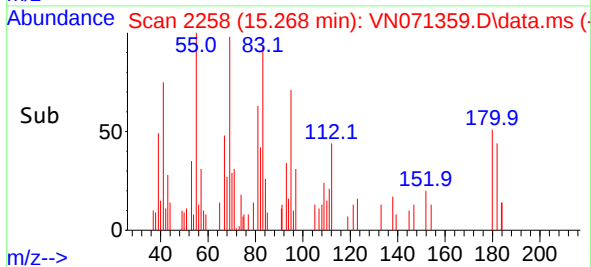
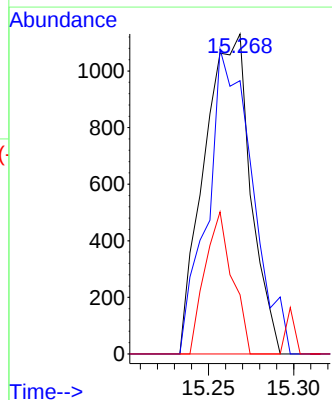
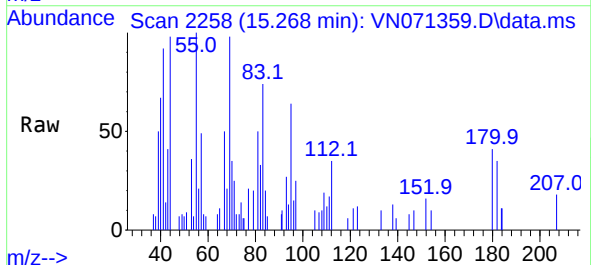
Instrument :
MSVOA_N
ClientSampleId :
220316043-02-VOA

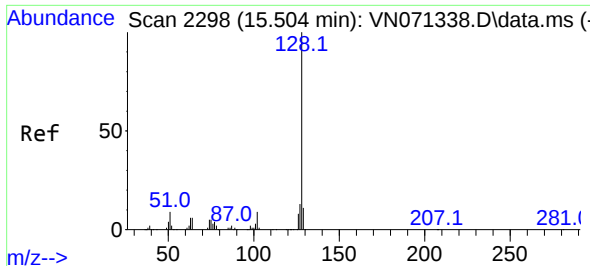
Tgt Ion: 98 Resp: 686209
Ion Ratio Lower Upper
98 100
100 65.2 50.6 76.0



#89
1,2,4-Trichlorobenzene
Concen: 0.420 ug/l
RT: 15.268 min Scan# 2258
Delta R.T. 0.012 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Tgt Ion:180 Resp: 2139
Ion Ratio Lower Upper
180 100
182 92.0 77.7 116.5
145 26.4 26.6 39.8#

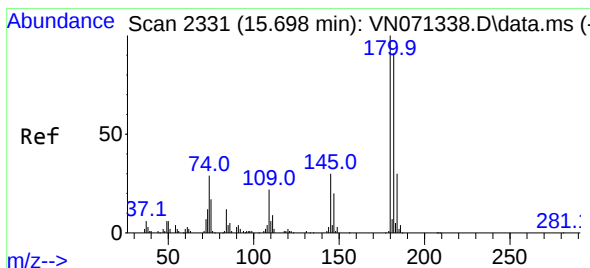
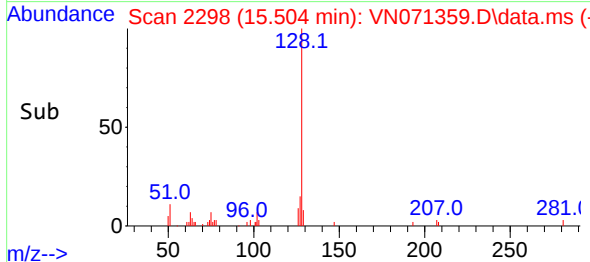
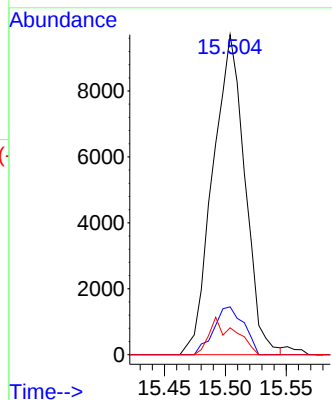
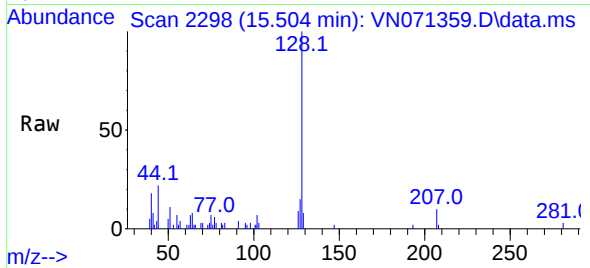




#91
Naphthalene
Concen: 1.118 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Instrument :
MSVOA_N
ClientSampleId :
220316043-02-VOA

Tgt Ion:128 Resp: 17813
Ion Ratio Lower Upper
128 100
127 14.0 10.7 16.1
129 4.5 9.0 13.6#



#92
1,2,3-Trichlorobenzene
Concen: 0.410 ug/l
RT: 15.268 min Scan# 2258
Delta R.T. -0.429 min
Lab File: VN071359.D
Acq: 17 Mar 2022 18:22

Tgt Ion:180 Resp: 2139
Ion Ratio Lower Upper
180 100
182 92.0 0.0 190.0
145 26.4 0.0 67.8

