

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032822\
 Data File : VN071611.D
 Acq On : 28 Mar 2022 17:58
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Mar 29 09:50:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N032822W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 29 09:32:37 2022
 Response via : Initial Calibration

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

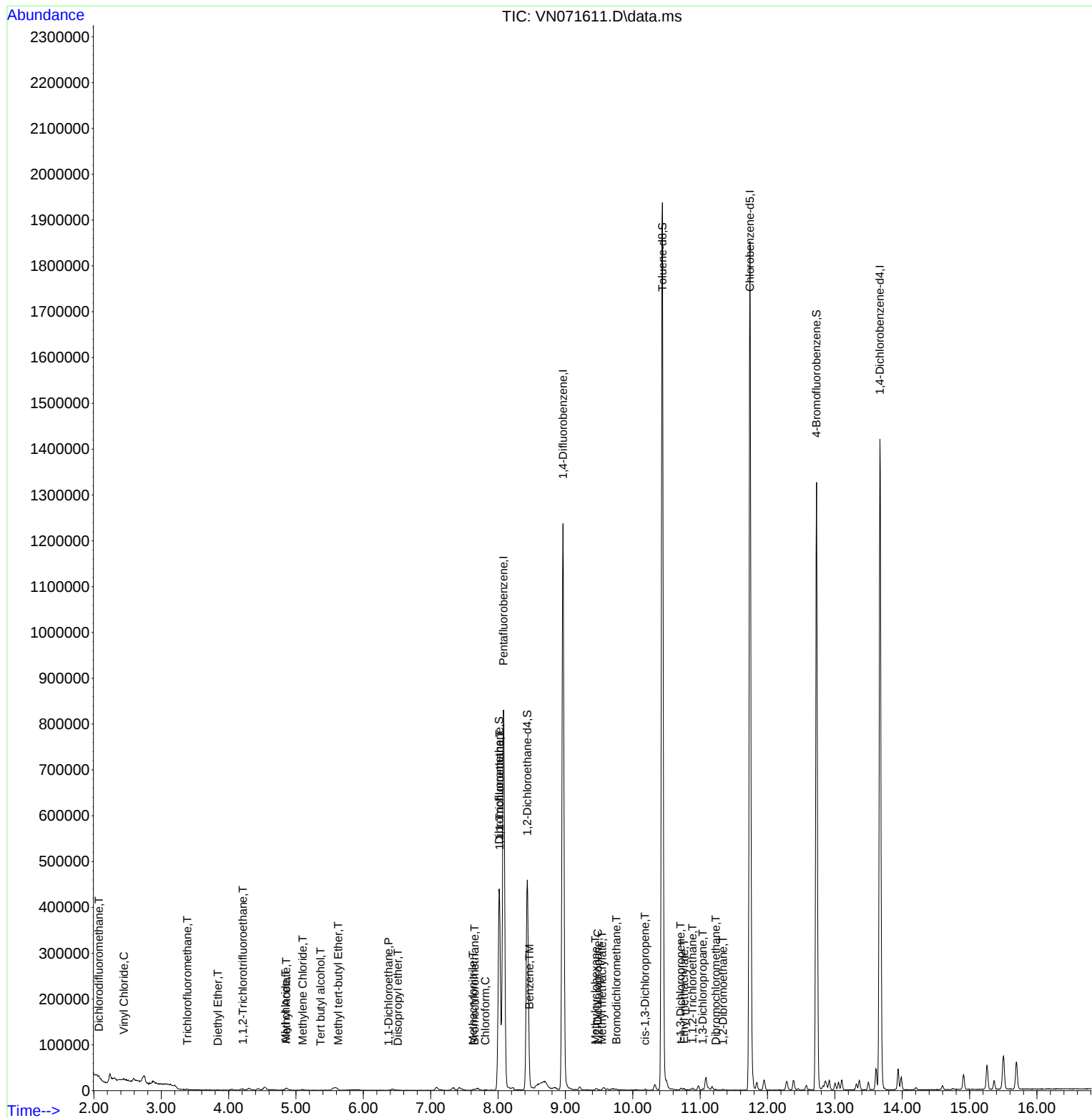
Internal Standards						
1) Pentafluorobenzene	8.081	168	679726	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1134580	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1116014	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	411126	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	386131	47.378	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.760%
35) Dibromofluoromethane	8.016	113	321327	46.114	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	92.220%
50) Toluene-d8	10.439	98	1411963	49.125	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.240%
62) 4-Bromofluorobenzene	12.727	95	458340	48.882	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	97.760%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.075	85	1063	0.160	ug/l	93
4) Vinyl Chloride	2.446	62	1556	0.179	ug/l #	84
7) Trichlorofluoromethane	3.387	101	1507	0.145	ug/l #	67
8) Diethyl Ether	3.840	74	79	0.018	ug/l #	1
9) 1,1,2-Trichlorotrifluo...	4.210	101	995	0.158	ug/l #	27
11) Tert butyl alcohol	5.363	59	174	0.121	ug/l #	72
14) Allyl chloride	4.846	41	1071	0.110	ug/l #	62
18) Methyl Acetate	4.857	43	8077	0.054	ug/l	98
19) Methyl tert-butyl Ether	5.628	73	121	0.005	ug/l #	54
20) Methylene Chloride	5.099	84	1393	0.188	ug/l #	63
22) Diisopropyl ether	6.510	45	411	0.020	ug/l #	39
24) 1,1-Dichloroethane	6.375	63	580	0.047	ug/l #	82
28) Bromochloromethane	7.651	49	924	0.185	ug/l #	93
30) Chloroform	7.810	83	1400	0.110	ug/l #	76
32) 1,1,1-Trichloroethane	8.022	97	248	0.023	ug/l #	24
39) Methylcyclohexane	9.445	83	1778	0.144	ug/l #	59
40) Benzene	8.463	78	4345	0.141	ug/l	93
41) Methacrylonitrile	7.628	41	764	0.143	ug/l #	84
45) 1,2-Dichloropropane	9.481	63	545	0.072	ug/l #	44
47) Bromodichloromethane	9.757	83	934	0.091	ug/l #	70
48) Methyl methacrylate	9.545	41	1370	0.174	ug/l	96
53) t-1,3-Dichloropropene	10.710	75	2110	0.190	ug/l #	69
54) cis-1,3-Dichloropropene	10.181	75	1544	0.128	ug/l #	94
55) 1,1,2-Trichloroethane	10.886	97	1261	0.158	ug/l #	80
56) Ethyl methacrylate	10.763	69	2202	0.185	ug/l #	82
57) 1,3-Dichloropropane	11.039	76	1665	0.125	ug/l	97
60) Dibromochloromethane	11.233	129	981	0.123	ug/l	87
61) 1,2-Dibromoethane	11.339	107	1524	0.189	ug/l	94

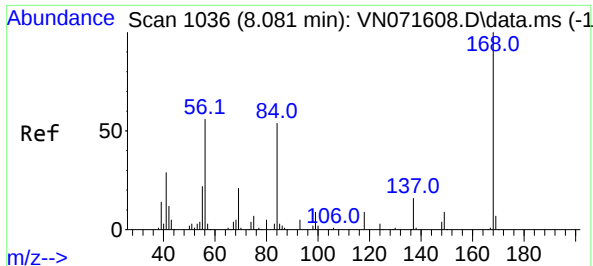
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032822\
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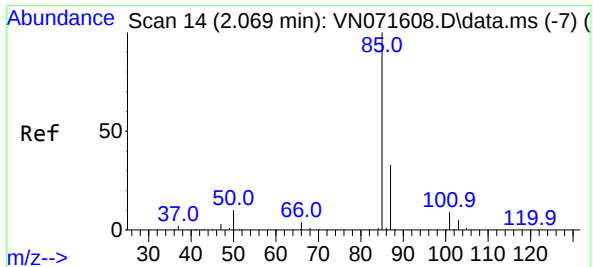
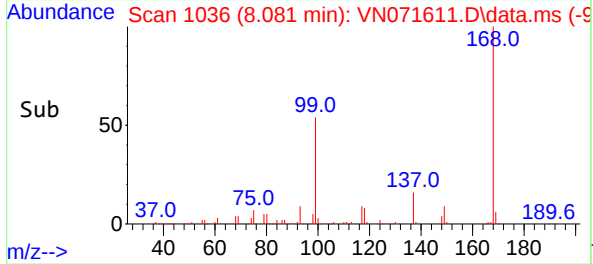
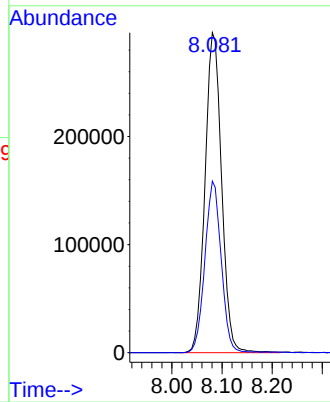
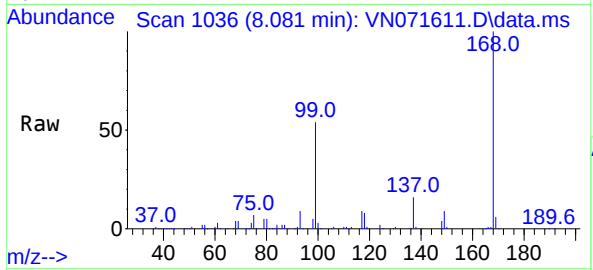




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

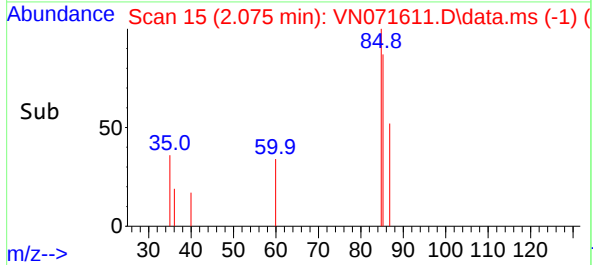
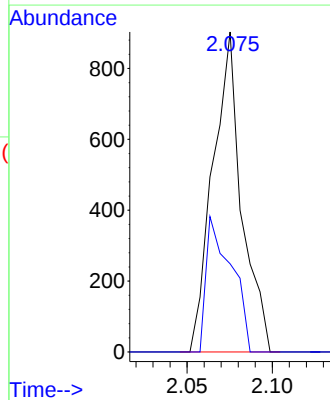
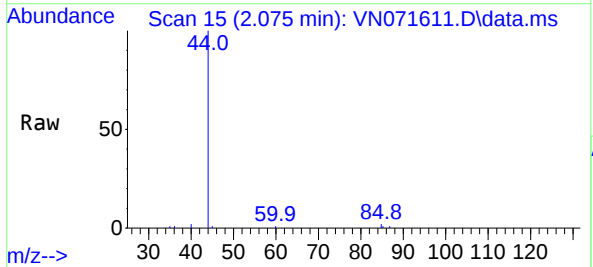
Instrument :
MSVOA_N
ClientSampleId :
IBLK

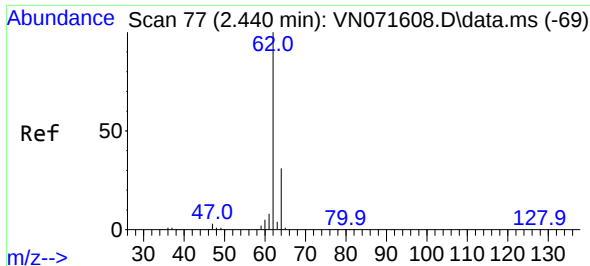
Tgt Ion:168 Resp: 679726
Ion Ratio Lower Upper
168 100
99 53.6 42.3 63.5



#2
Dichlorodifluoromethane
Concen: 0.160 ug/l
RT: 2.075 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Tgt Ion: 85 Resp: 1063
Ion Ratio Lower Upper
85 100
87 27.6 15.7 47.1

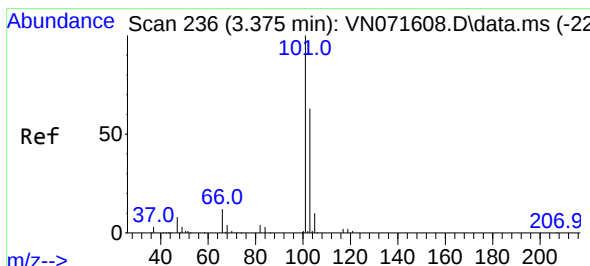
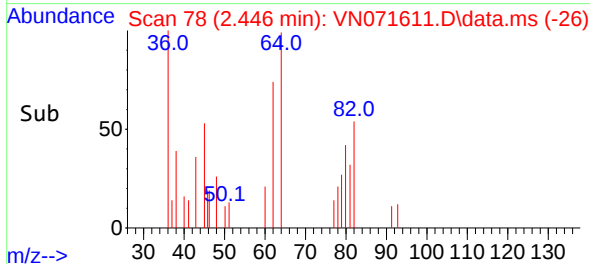
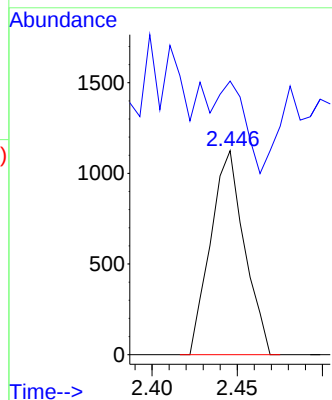
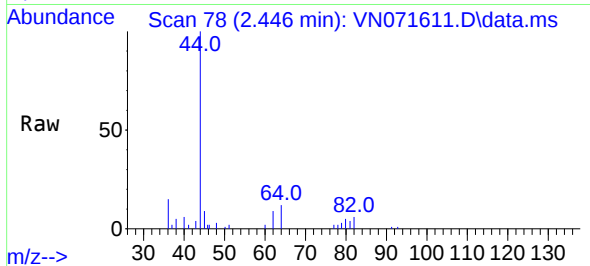




#4
 Vinyl Chloride
 Concen: 0.179 ug/l
 RT: 2.446 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: VN071611.D
 Acq: 28 Mar 2022 17:58

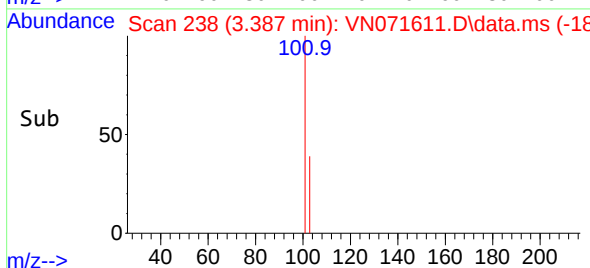
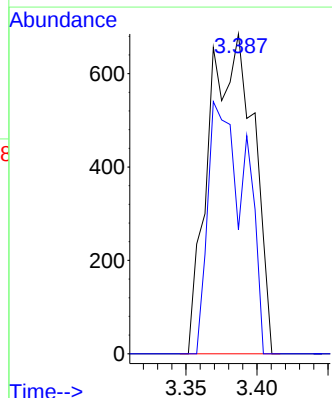
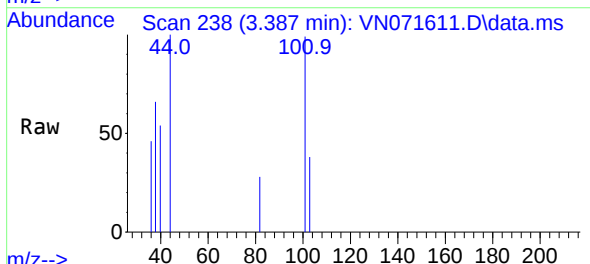
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

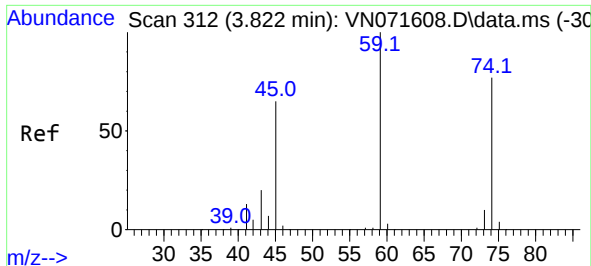
Tgt Ion: 62 Resp: 1556
 Ion Ratio Lower Upper
 62 100
 64 22.1 25.0 37.4#



#7
 Trichlorofluoromethane
 Concen: 0.145 ug/l
 RT: 3.387 min Scan# 238
 Delta R.T. 0.012 min
 Lab File: VN071611.D
 Acq: 28 Mar 2022 17:58

Tgt Ion: 101 Resp: 1507
 Ion Ratio Lower Upper
 101 100
 103 38.8 51.5 77.3#

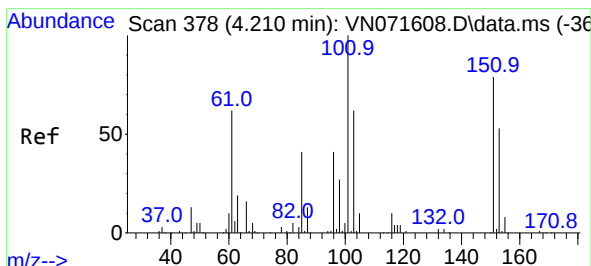
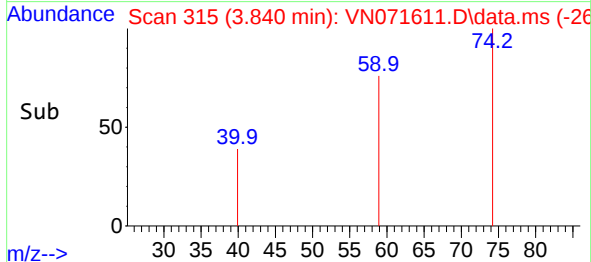
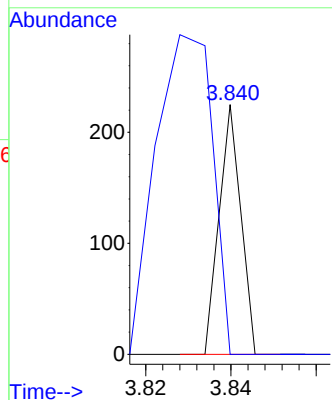
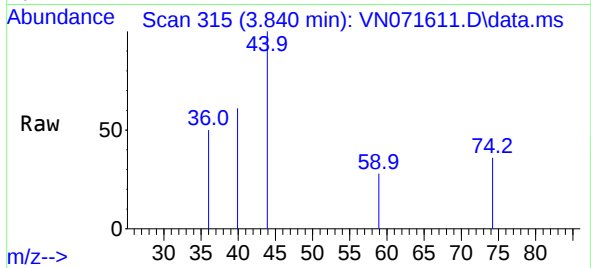




#8
Diethyl Ether
Concen: 0.018 ug/l
RT: 3.840 min Scan# 312
Delta R.T. 0.018 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

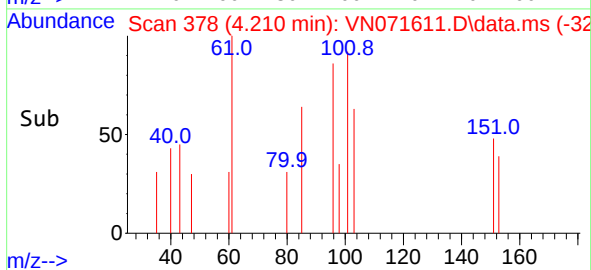
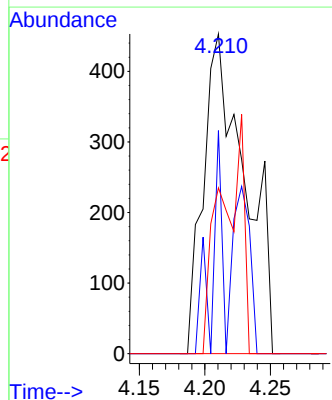
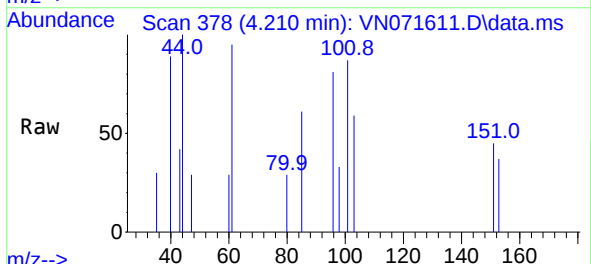
Instrument :
MSVOA_N
ClientSampleId :
IBLK

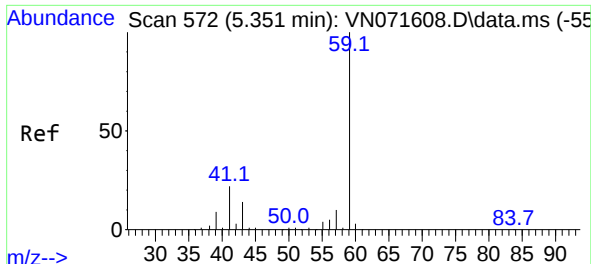
Tgt Ion: 74 Resp: 79
Ion Ratio Lower Upper
74 100
45 336.7 42.9 128.5#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.158 ug/l
RT: 4.210 min Scan# 378
Delta R.T. 0.000 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Tgt Ion: 101 Resp: 995
Ion Ratio Lower Upper
101 100
85 17.1 34.7 52.1#
151 0.0 63.0 94.4#





#11

Tert butyl alcohol

Concen: 0.121 ug/l

RT: 5.363 min Scan# 51

Delta R.T. 0.012 min

Lab File: VN071611.D

Acq: 28 Mar 2022 17:58

Instrument :

MSVOA_N

ClientSampleId :

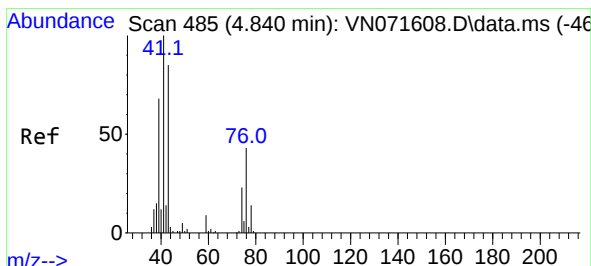
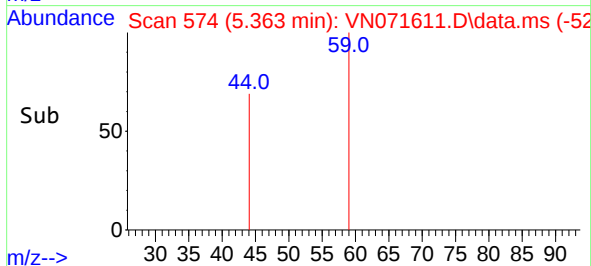
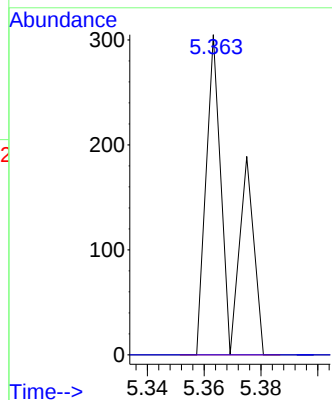
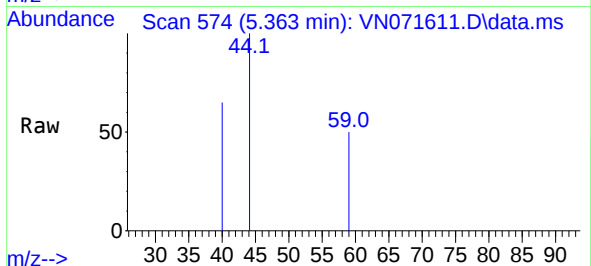
IBLK

Tgt Ion: 59 Resp: 174

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#14

Allyl chloride

Concen: 0.110 ug/l

RT: 4.846 min Scan# 486

Delta R.T. 0.006 min

Lab File: VN071611.D

Acq: 28 Mar 2022 17:58

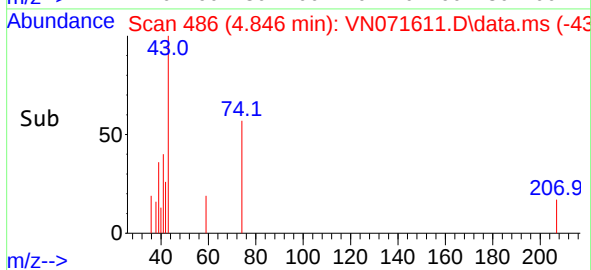
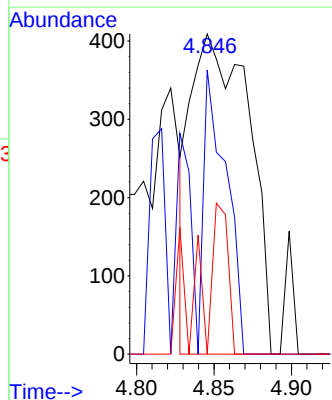
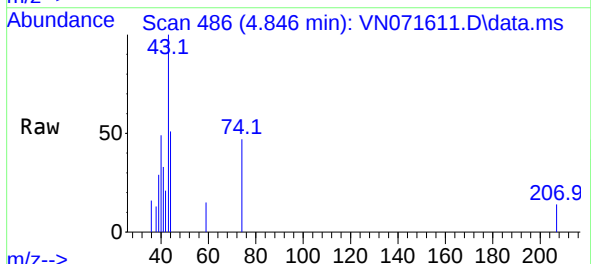
Tgt Ion: 41 Resp: 1071

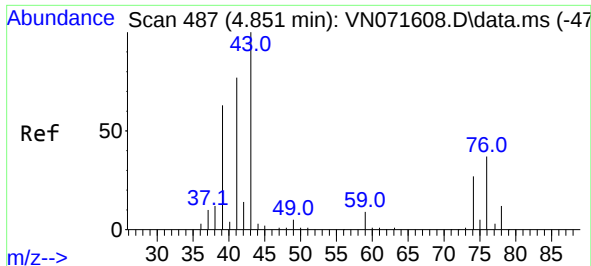
Ion Ratio Lower Upper

41 100

39 34.4 53.2 79.8#

76 17.3 29.9 44.9#

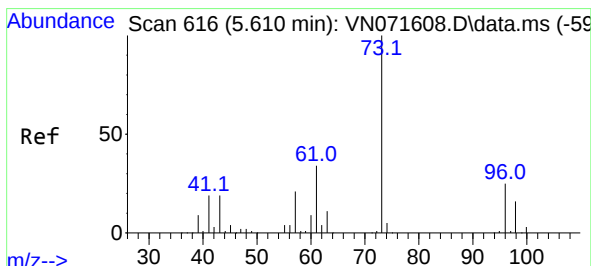
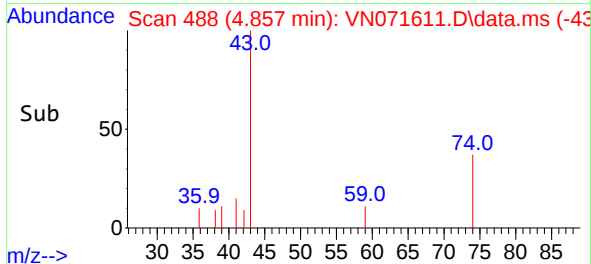
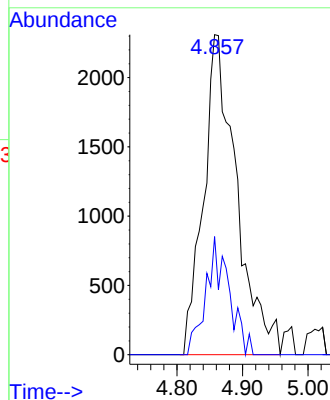
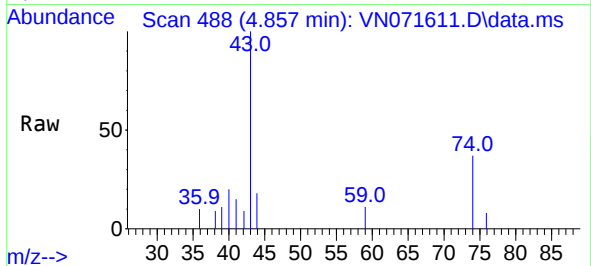




#18
Methyl Acetate
Concen: 0.054 ug/l
RT: 4.857 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

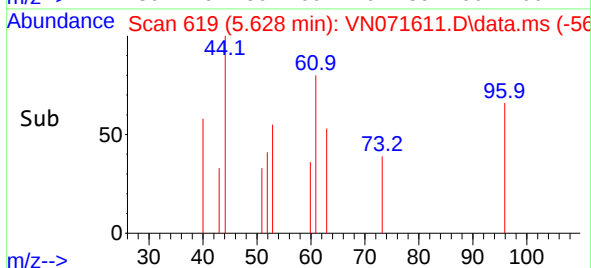
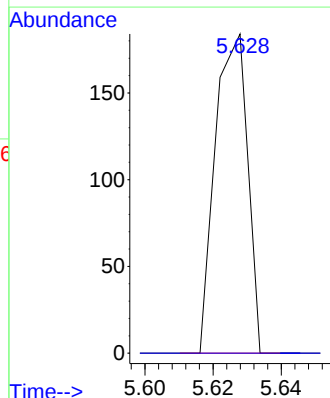
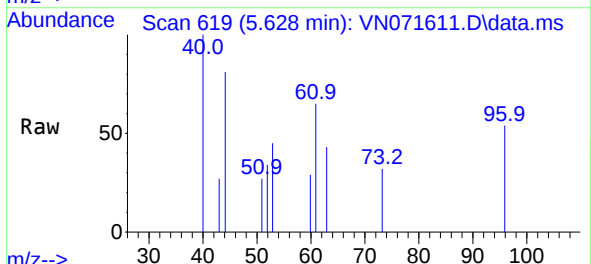
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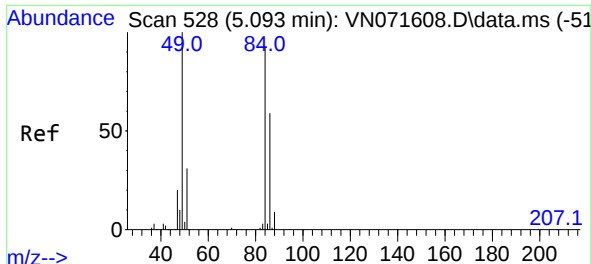
Tgt Ion: 43 Resp: 8077
Ion Ratio Lower Upper
43 100
74 25.7 21.6 32.4



#19
Methyl tert-butyl Ether
Concen: 0.005 ug/l
RT: 5.628 min Scan# 619
Delta R.T. 0.018 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Tgt Ion: 73 Resp: 121
Ion Ratio Lower Upper
73 100
57 0.0 17.6 26.4#



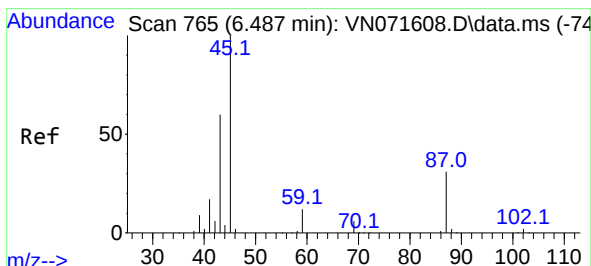
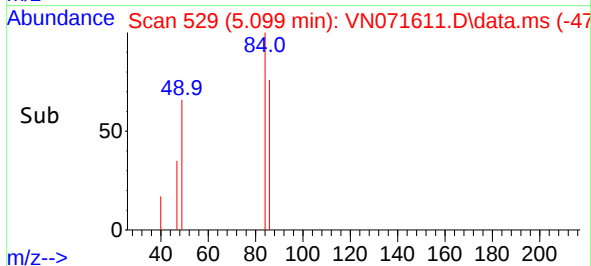
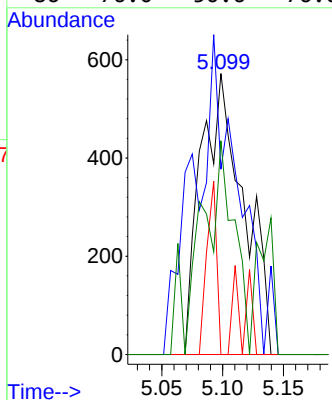
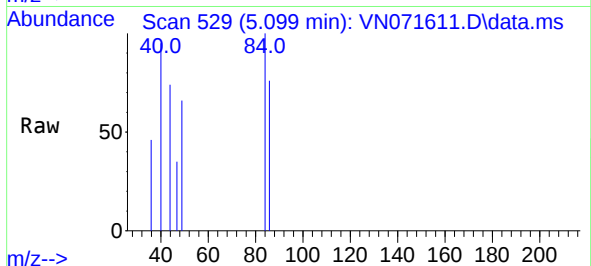


#20
Methylene Chloride
Concen: 0.188 ug/l
RT: 5.099 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Instrument :
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Tgt Ion: 84 Resp: 1393

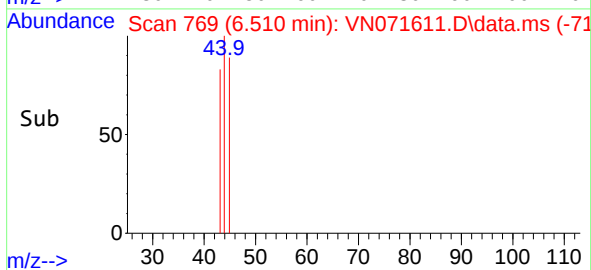
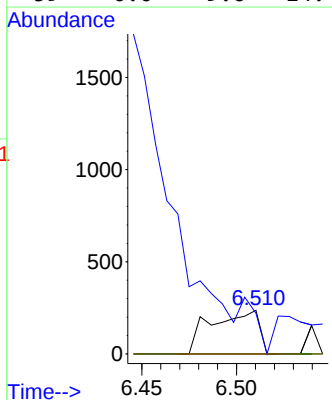
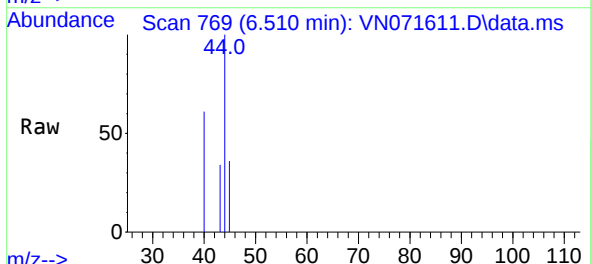
Ion	Ratio	Lower	Upper
84	100		
49	65.9	88.3	132.5#
51	0.0	28.2	42.2#
86	76.0	50.6	76.0#

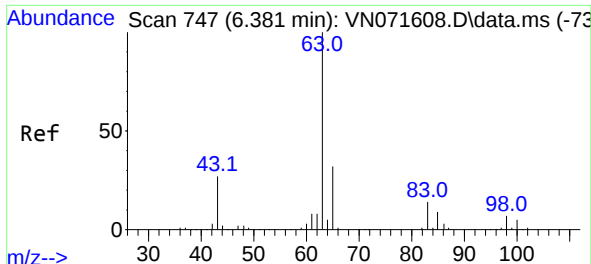


#22
Diisopropyl ether
Concen: 0.020 ug/l
RT: 6.510 min Scan# 769
Delta R.T. 0.024 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Tgt Ion: 45 Resp: 411

Ion	Ratio	Lower	Upper
45	100		
43	6.3	46.6	70.0#
87	0.0	24.3	36.5#
59	0.0	9.6	14.4#

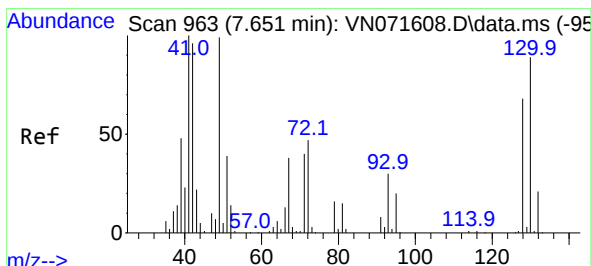
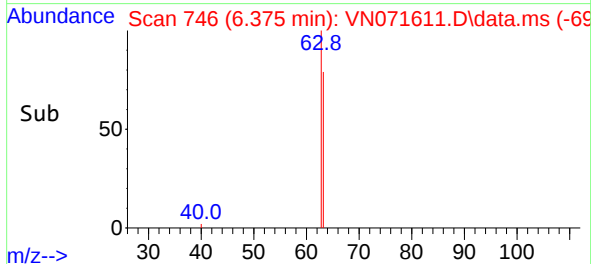
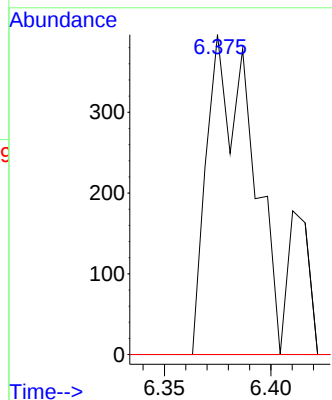
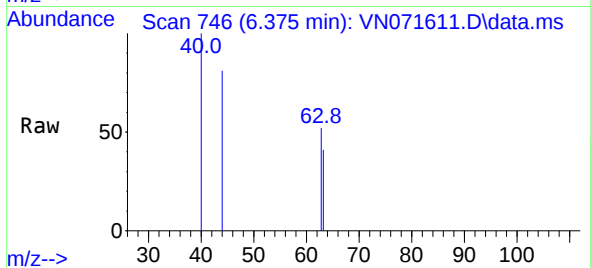




#24
1,1-Dichloroethane
Concen: 0.047 ug/l
RT: 6.375 min Scan# 74
Delta R.T. -0.006 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

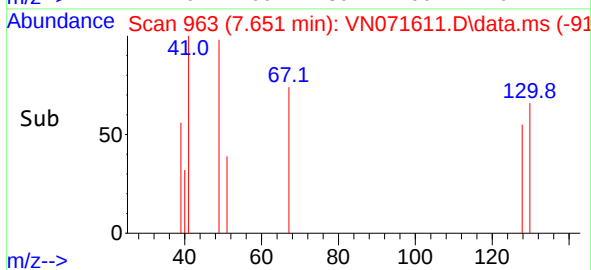
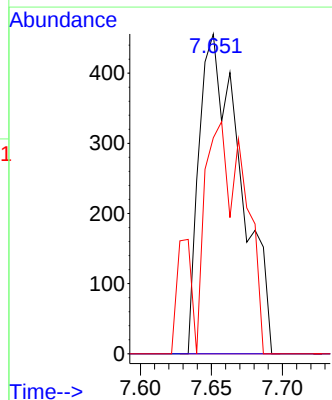
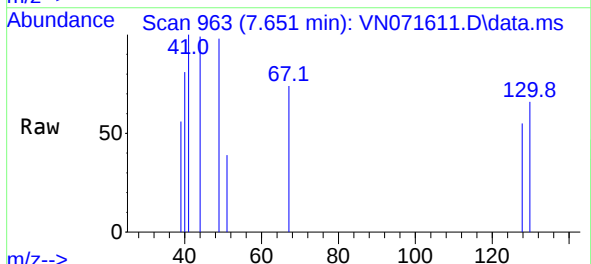
Instrument :
MSVOA_N
ClientSampleId :
IBLK

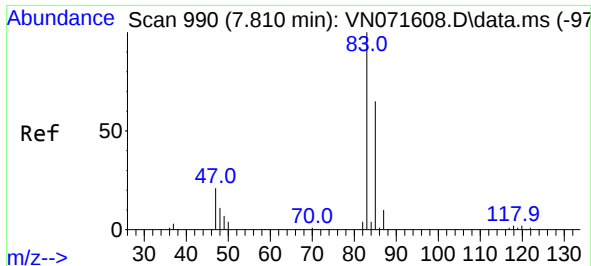
Tgt Ion: 63 Resp: 580
Ion Ratio Lower Upper
63 100
98 0.0 3.5 10.4#
100 0.0 2.3 6.8#



#28
Bromochloromethane
Concen: 0.185 ug/l
RT: 7.651 min Scan# 963
Delta R.T. 0.000 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Tgt Ion: 49 Resp: 924
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.6
130 81.0 69.7 104.5





#30

Chloroform

Concen: 0.110 ug/l

RT: 7.810 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN071611.D

Acq: 28 Mar 2022 17:58

Instrument :

MSVOA_N

ClientSampleId :

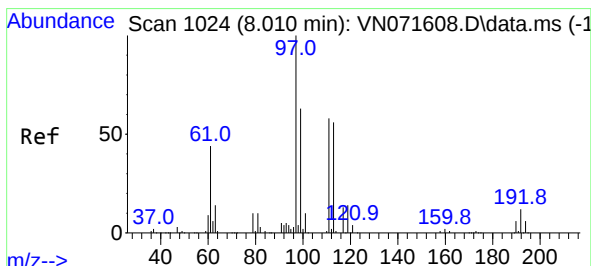
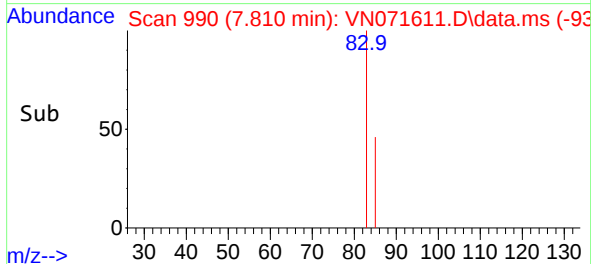
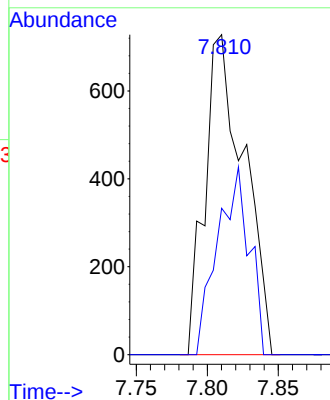
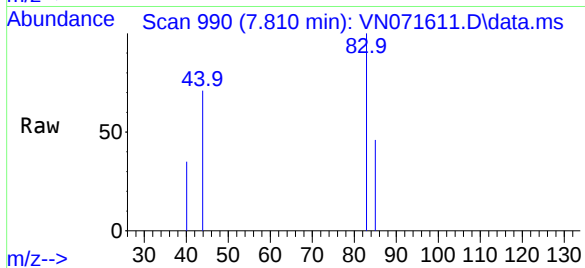
IBLK

Tgt Ion: 83 Resp: 1400

Ion Ratio Lower Upper

83 100

85 45.7 51.8 77.8#



#32

1,1,1-Trichloroethane

Concen: 0.023 ug/l

RT: 8.022 min Scan# 1026

Delta R.T. 0.012 min

Lab File: VN071611.D

Acq: 28 Mar 2022 17:58

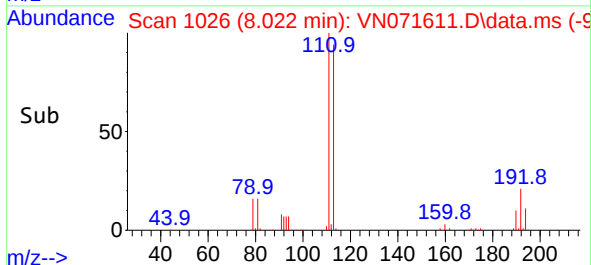
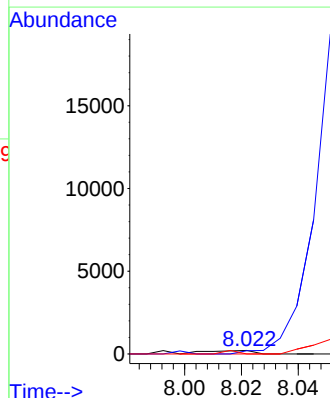
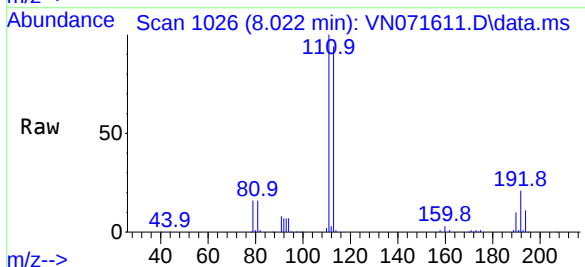
Tgt Ion: 97 Resp: 248

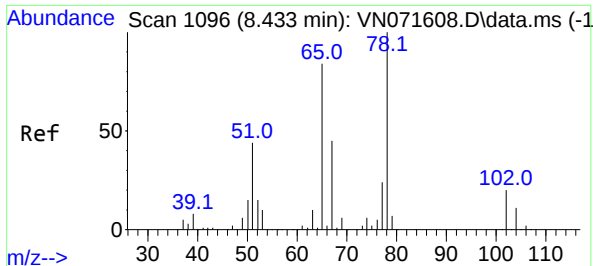
Ion Ratio Lower Upper

97 100

99 0.0 50.6 76.0#

61 0.0 36.0 54.0#





#33

1,2-Dichloroethane-d4

Concen: 47.378 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. 0.000 min

Lab File: VN071611.D

Acq: 28 Mar 2022 17:58

Instrument :

MSVOA_N

ClientSampleId :

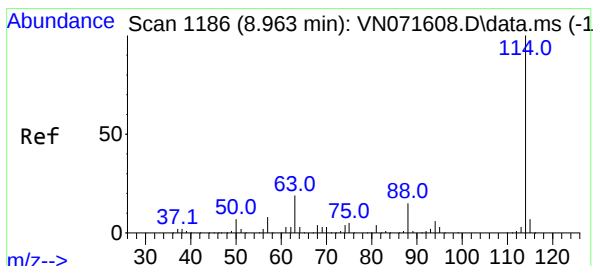
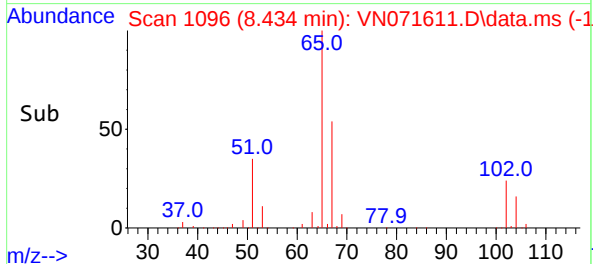
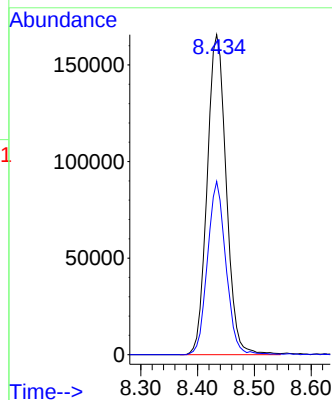
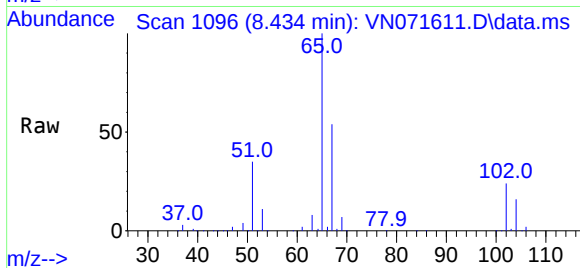
IBLK

Tgt Ion: 65 Resp: 386131

Ion Ratio Lower Upper

65 100

67 52.2 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. 0.000 min

Lab File: VN071611.D

Acq: 28 Mar 2022 17:58

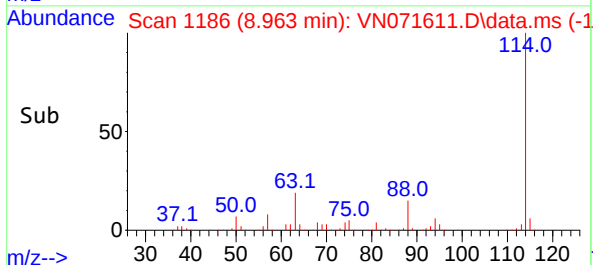
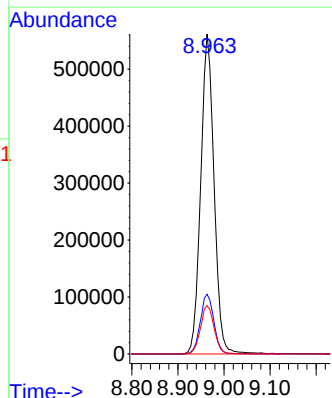
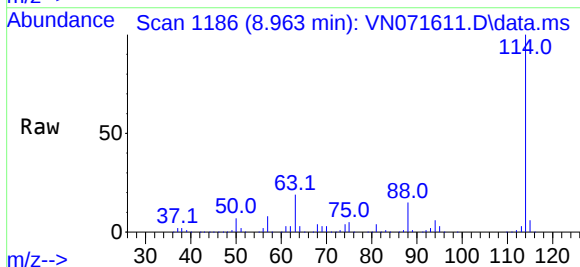
Tgt Ion: 114 Resp: 1134580

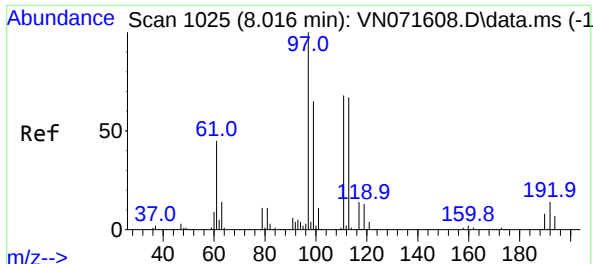
Ion Ratio Lower Upper

114 100

63 18.7 0.0 40.0

88 15.1 0.0 32.6

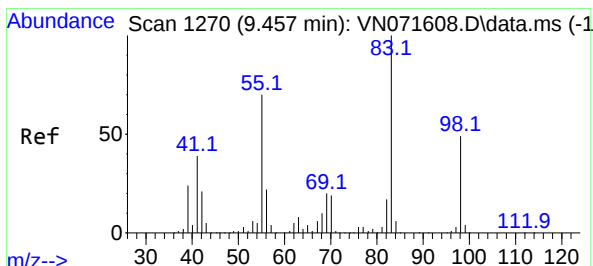
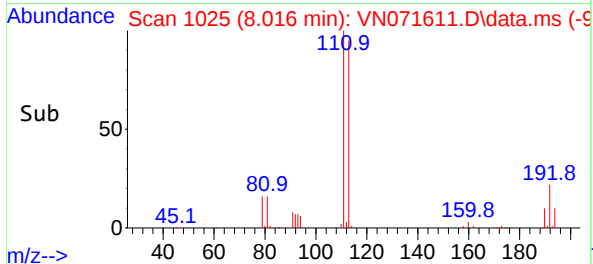
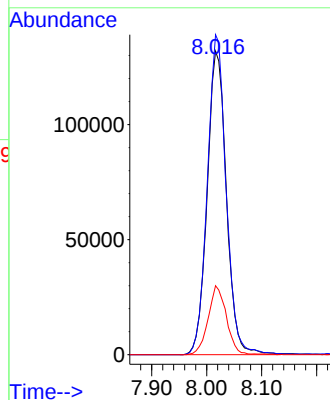
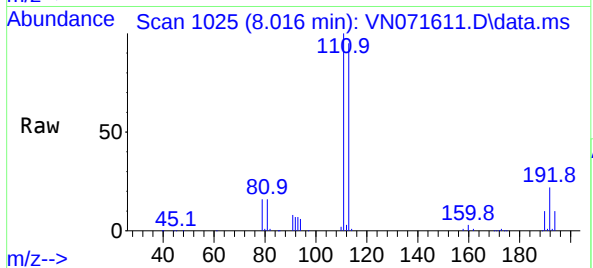




#35
Dibromofluoromethane
Concen: 46.114 ug/l
RT: 8.016 min Scan# 1025
Delta R.T. 0.000 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

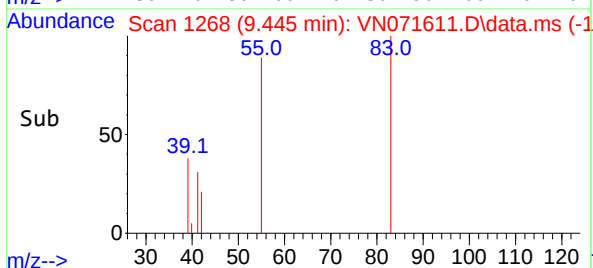
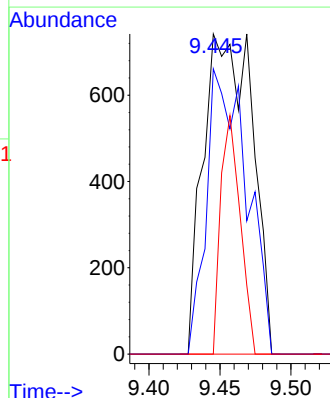
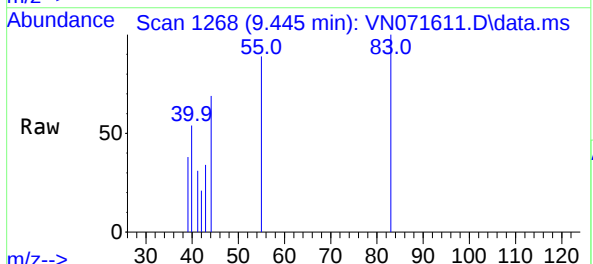
Instrument :
MSVOA_N
ClientSampleId :
IBLK

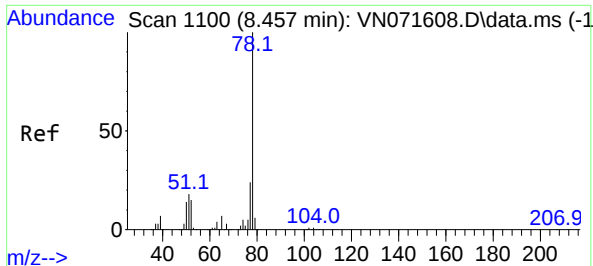
Tgt Ion:113 Resp: 321327
Ion Ratio Lower Upper
113 100
111 103.1 81.4 122.0
192 21.4 17.0 25.6



#39
Methylcyclohexane
Concen: 0.144 ug/l
RT: 9.445 min Scan# 1268
Delta R.T. -0.012 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Tgt Ion: 83 Resp: 1778
Ion Ratio Lower Upper
83 100
55 89.1 57.8 86.8#
98 0.0 39.4 59.2#

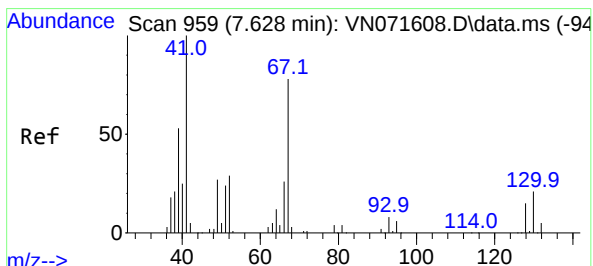
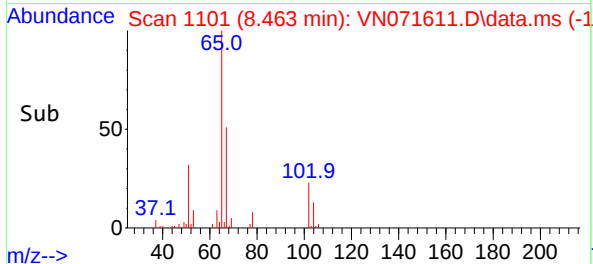
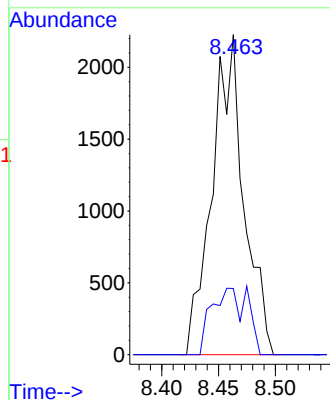
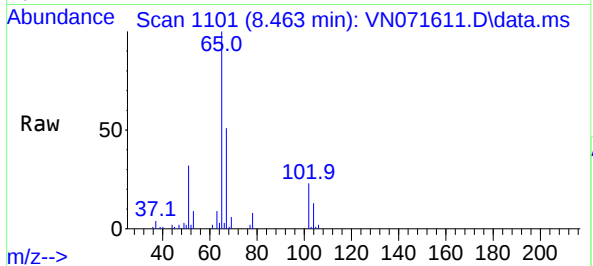




#40
Benzene
Concen: 0.141 ug/l
RT: 8.463 min Scan# 1101
Delta R.T. 0.006 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

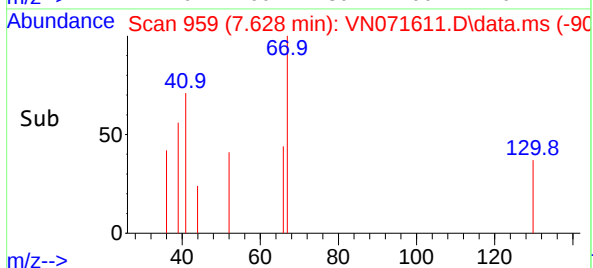
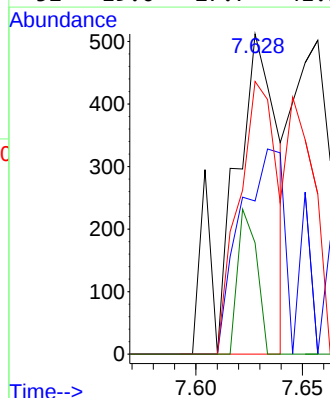
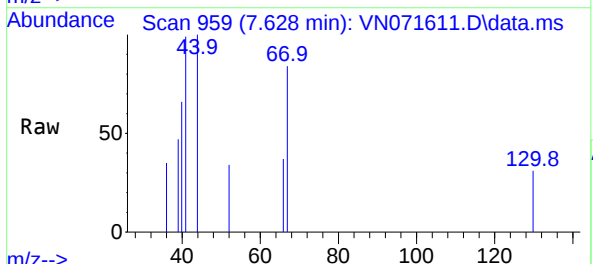
Instrument :
MSVOA_N
ClientSampleId :
IBLK

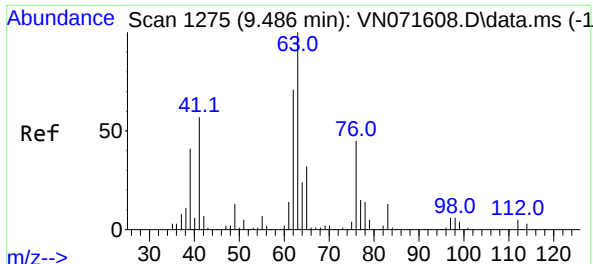
Tgt Ion: 78 Resp: 4345
Ion Ratio Lower Upper
78 100
77 20.7 19.4 29.0



#41
Methacrylonitrile
Concen: 0.143 ug/l
RT: 7.628 min Scan# 959
Delta R.T. 0.000 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Tgt Ion: 41 Resp: 764
Ion Ratio Lower Upper
41 100
39 60.1 48.6 73.0
67 71.2 73.4 110.2#
52 19.0 27.7 41.5#

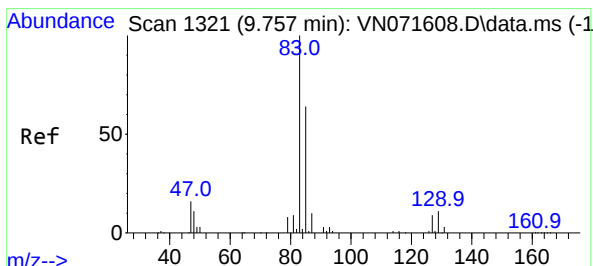
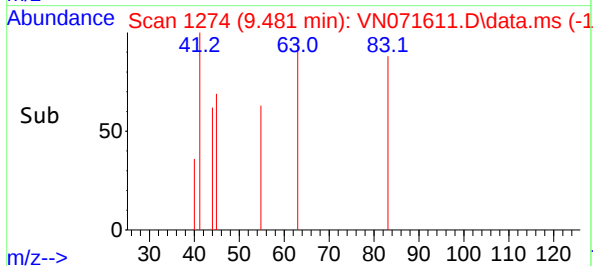
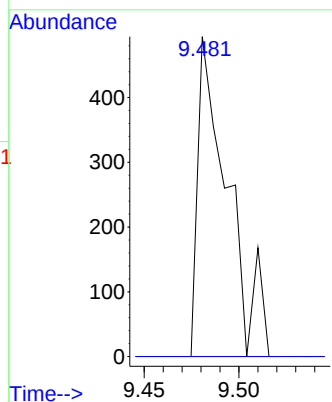
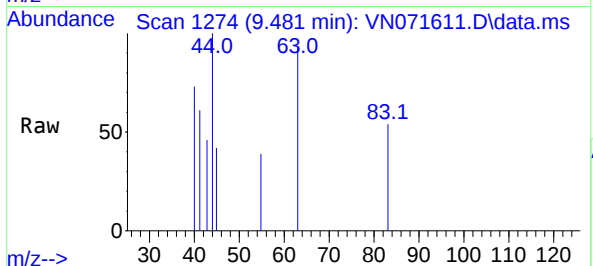




#45
1,2-Dichloropropane
Concen: 0.072 ug/l
RT: 9.481 min Scan# 1275
Delta R.T. -0.006 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

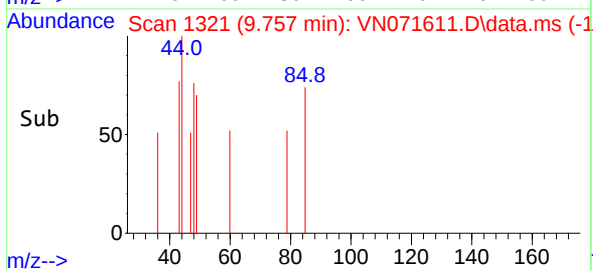
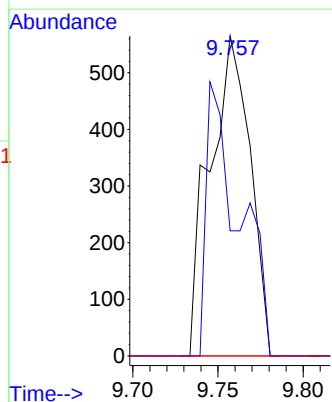
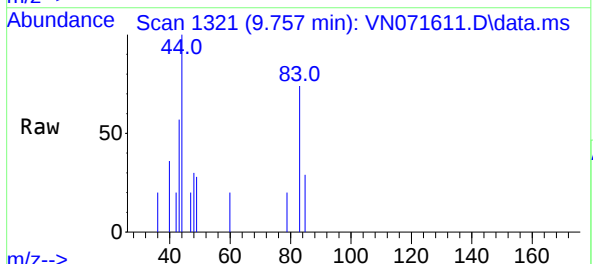
Instrument :
MSVOA_N
ClientSampleId :
IBLK

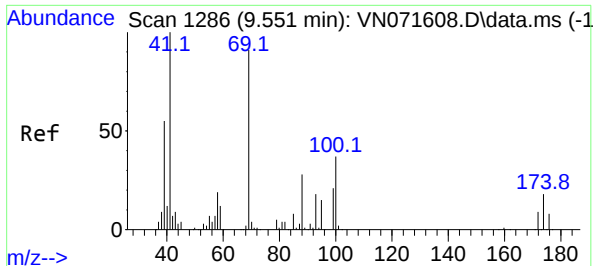
Tgt Ion: 63 Resp: 545
Ion Ratio Lower Upper
63 100
65 0.0 24.9 37.3#



#47
Bromodichloromethane
Concen: 0.091 ug/l
RT: 9.757 min Scan# 1321
Delta R.T. 0.000 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Tgt Ion: 83 Resp: 934
Ion Ratio Lower Upper
83 100
85 39.1 50.5 75.7#
127 0.0 6.8 10.2#





#48

Methyl methacrylate

Concen: 0.174 ug/l

RT: 9.545 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN071611.D

Acq: 28 Mar 2022 17:58

Instrument :

MSVOA_N

ClientSampleId :

IBLK

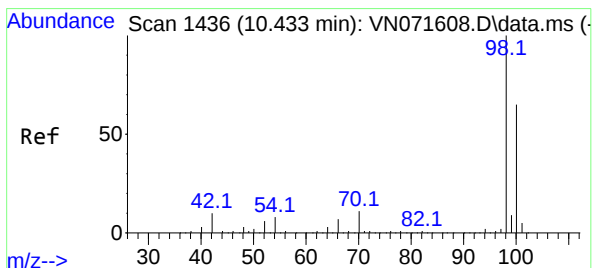
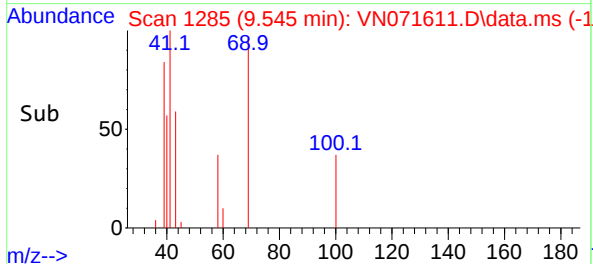
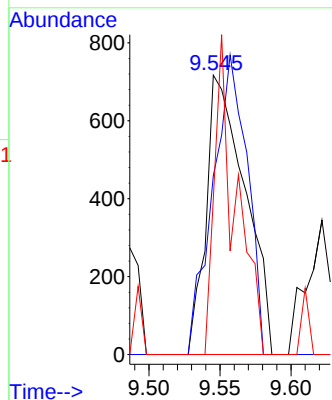
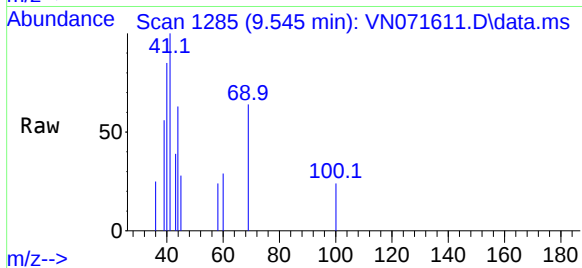
Tgt Ion: 41 Resp: 1370

Ion Ratio Lower Upper

41 100

69 94.7 74.7 112.1

39 62.9 45.6 68.4



#50

Toluene-d8

Concen: 49.125 ug/l

RT: 10.439 min Scan# 1437

Delta R.T. 0.006 min

Lab File: VN071611.D

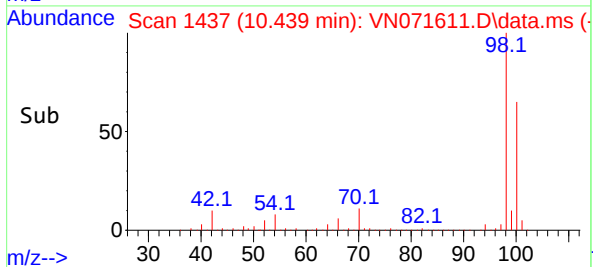
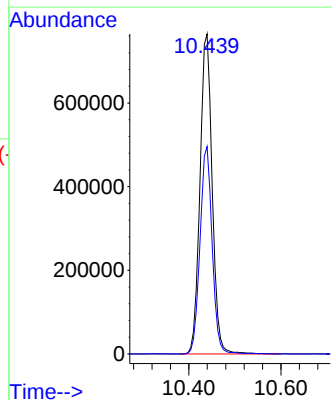
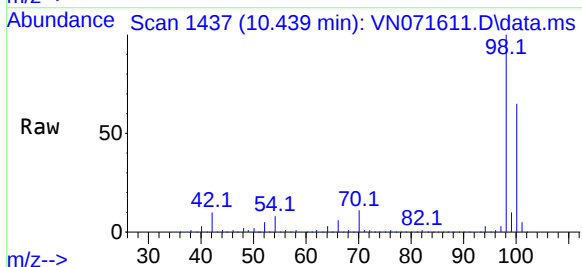
Acq: 28 Mar 2022 17:58

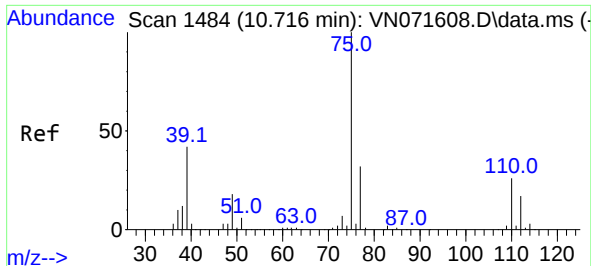
Tgt Ion: 98 Resp: 1411963

Ion Ratio Lower Upper

98 100

100 64.6 52.6 78.8

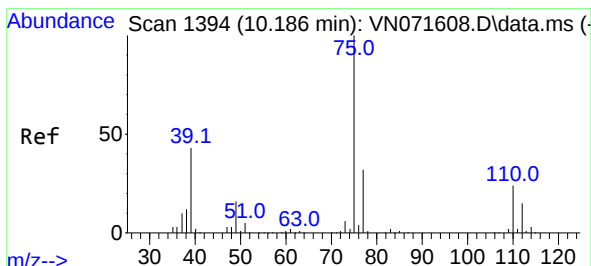
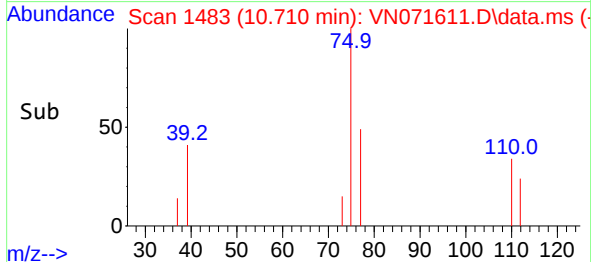
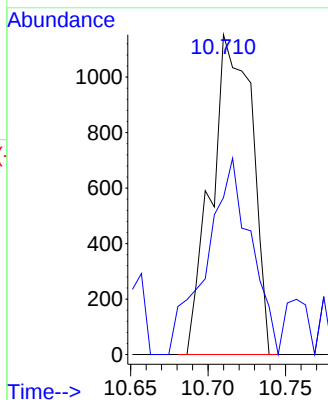
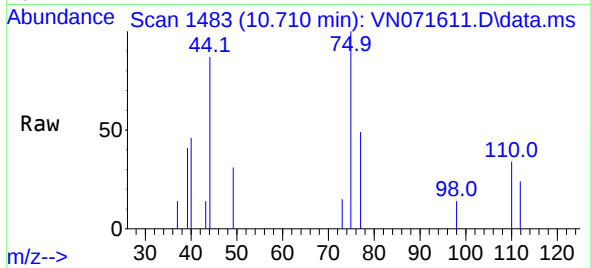




#53
t-1,3-Dichloropropene
Concen: 0.190 ug/l
RT: 10.710 min Scan# 1483
Delta R.T. -0.006 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

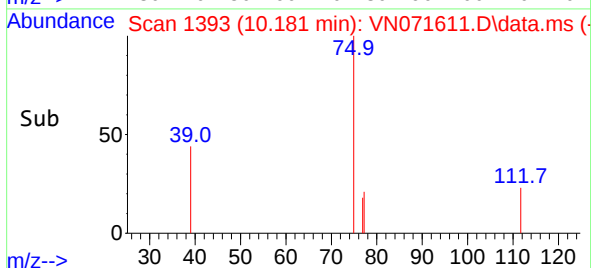
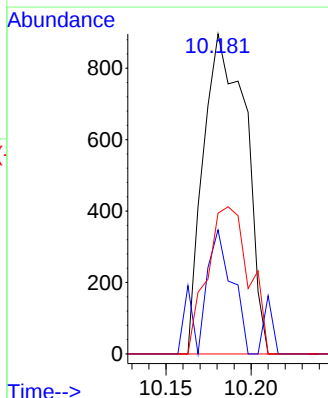
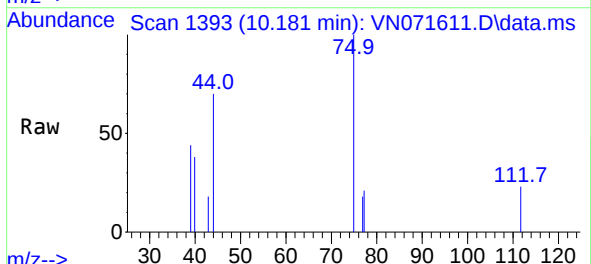
Instrument :
MSVOA_N
ClientSampleId :
IBLK

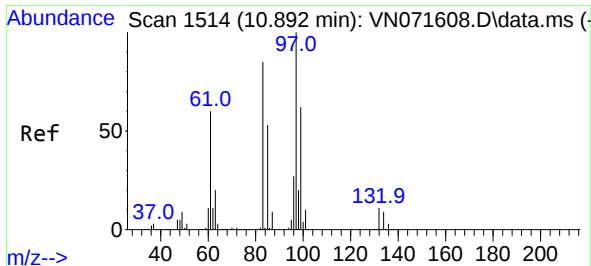
Tgt Ion: 75 Resp: 2110
Ion Ratio Lower Upper
75 100
77 49.1 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 0.128 ug/l
RT: 10.181 min Scan# 1393
Delta R.T. -0.006 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Tgt Ion: 75 Resp: 1544
Ion Ratio Lower Upper
75 100
77 38.7 25.2 37.8#
39 44.0 35.7 53.5

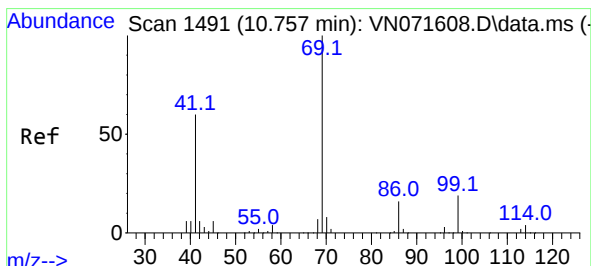
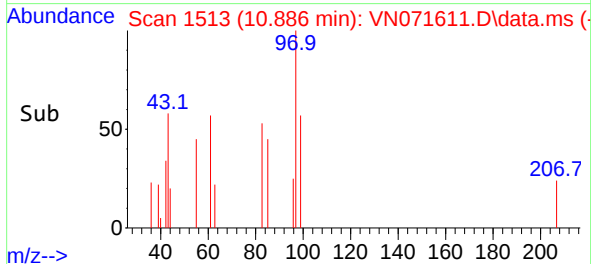
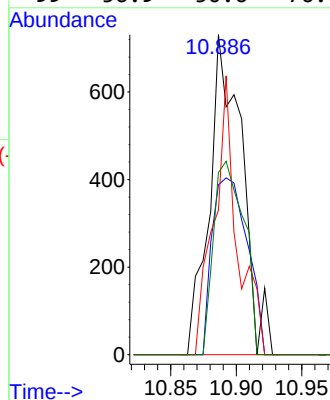
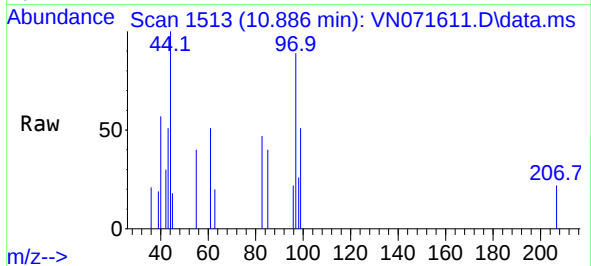




#55
1,1,2-Trichloroethane
Concen: 0.158 ug/l
RT: 10.886 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

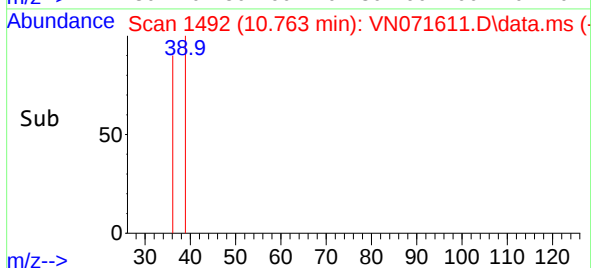
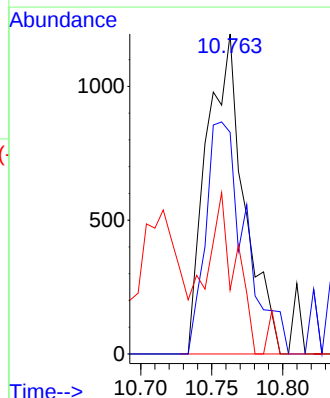
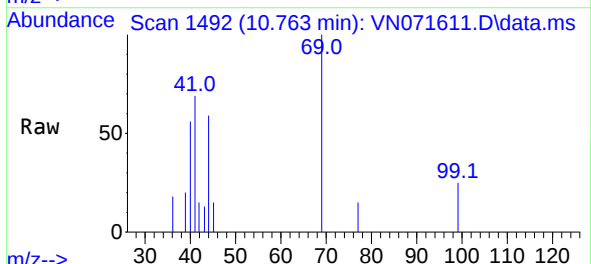
Instrument :
MSVOA_N
ClientSampleId :
IBLK

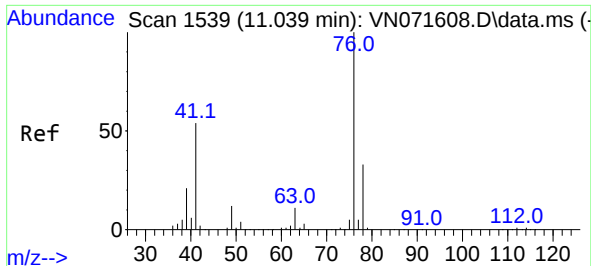
Tgt Ion: 97	Resp: 1261
Ion Ratio	Lower Upper
97 100	
83 53.1	66.2 99.4#
85 45.1	43.9 65.9
99 56.9	50.6 76.0



#56
Ethyl methacrylate
Concen: 0.185 ug/l
RT: 10.763 min Scan# 1492
Delta R.T. 0.006 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Tgt Ion: 69	Resp:	2202	
Ion	Ratio	Lower	Upper
69	100		
41	77.1	47.8	71.6#
39	39.0	27.3	40.9





#57

1,3-Dichloropropane

Concen: 0.125 ug/l

RT: 11.039 min Scan# 1539

Delta R.T. 0.000 min

Lab File: VN071611.D

Acq: 28 Mar 2022 17:58

Instrument :

MSVOA_N

ClientSampleId :

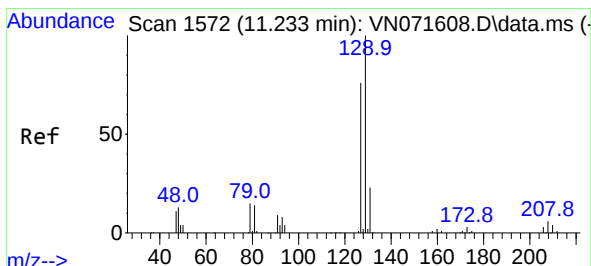
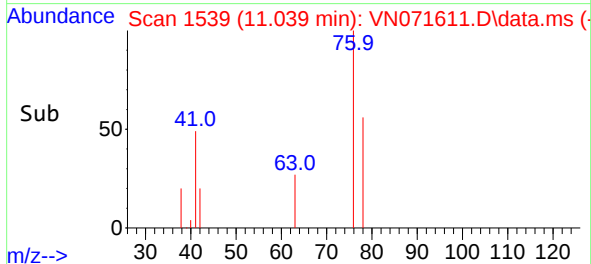
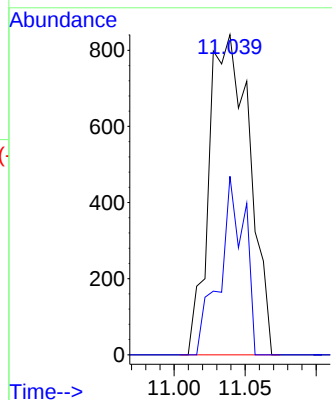
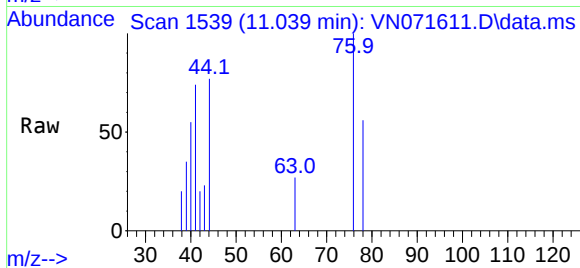
IBLK

Tgt Ion: 76 Resp: 1665

Ion Ratio Lower Upper

76 100

78 34.5 26.2 39.2



#60

Dibromochloromethane

Concen: 0.123 ug/l

RT: 11.233 min Scan# 1572

Delta R.T. 0.000 min

Lab File: VN071611.D

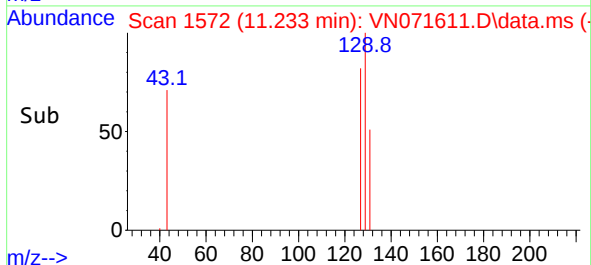
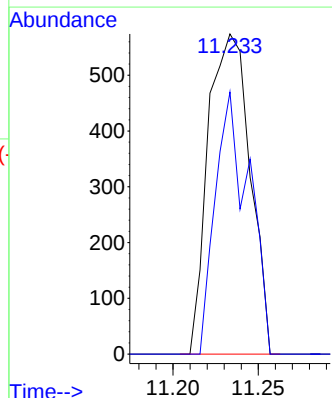
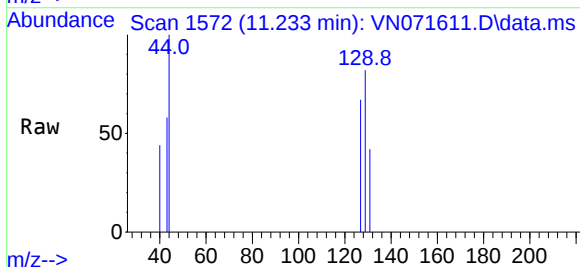
Acq: 28 Mar 2022 17:58

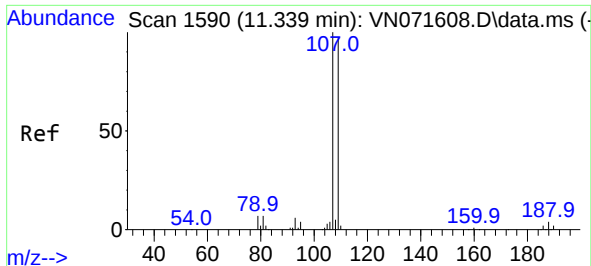
Tgt Ion: 129 Resp: 981

Ion Ratio Lower Upper

129 100

127 66.4 38.8 116.4

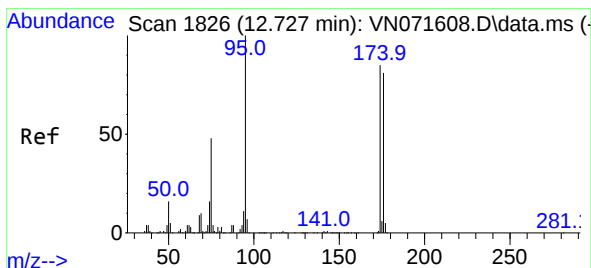
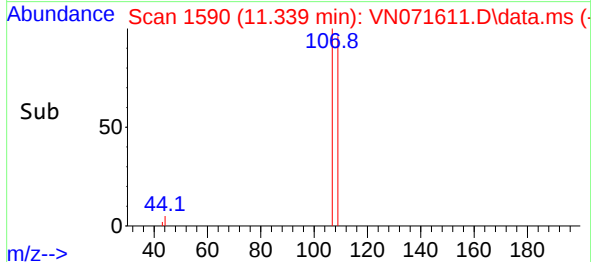
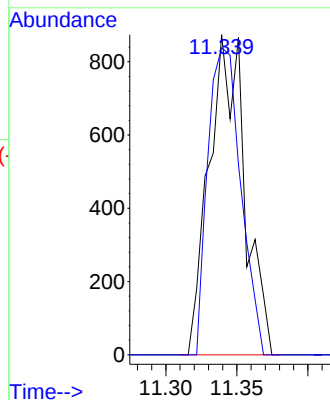
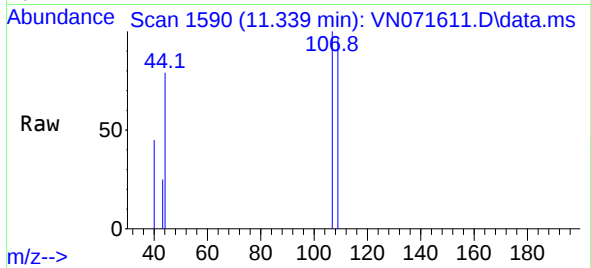




#61
1,2-Dibromoethane
Concen: 0.189 ug/l
RT: 11.339 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

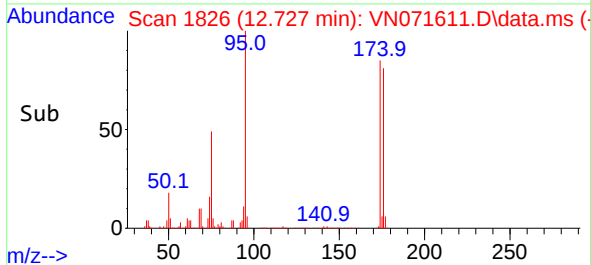
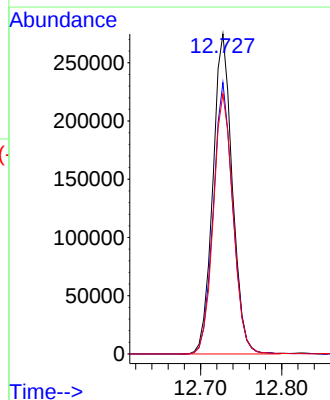
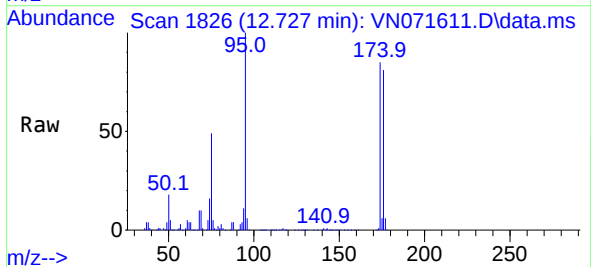
Instrument :
MSVOA_N
ClientSampleId :
IBLK

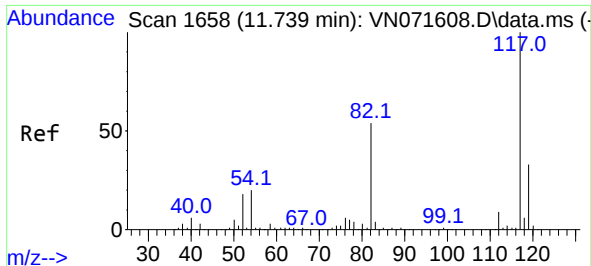
Tgt Ion:107 Resp: 1524
Ion Ratio Lower Upper
107 100
109 88.3 75.0 112.6



#62
4-Bromofluorobenzene
Concen: 48.882 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Tgt Ion: 95 Resp: 458340
Ion Ratio Lower Upper
95 100
174 84.7 0.0 167.6
176 82.5 0.0 163.4

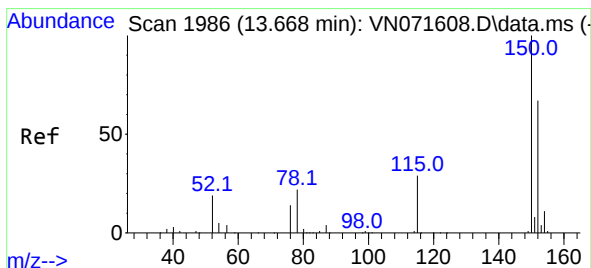
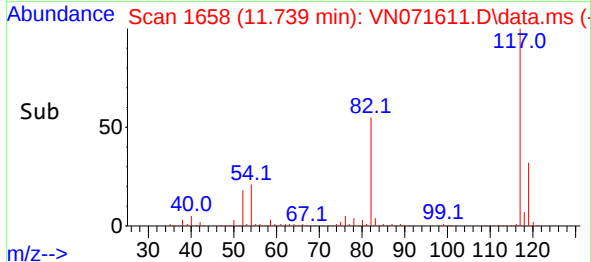
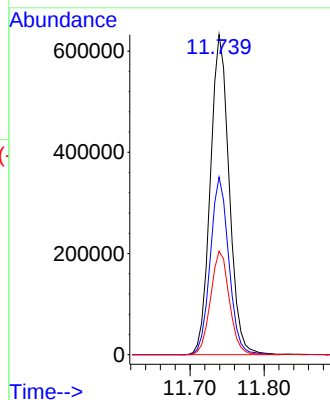
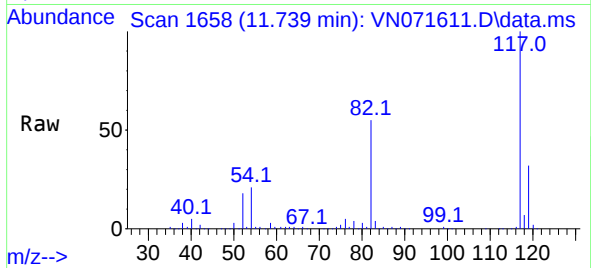




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1116014
Delta R.T. 0.000 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tgt Ion:117 Resp: 1116014
Ion Ratio Lower Upper
117 100
82 55.5 44.2 66.2
119 32.3 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.669 min Scan# 1986
Delta R.T. 0.000 min
Lab File: VN071611.D
Acq: 28 Mar 2022 17:58

Tgt Ion:152 Resp: 411126
Ion Ratio Lower Upper
152 100
115 57.1 28.9 86.7
150 158.1 0.0 356.2

