

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122822\
 Data File : VN076001.D
 Acq On : 28 Dec 2022 15:45
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Dec 29 04:52:53 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

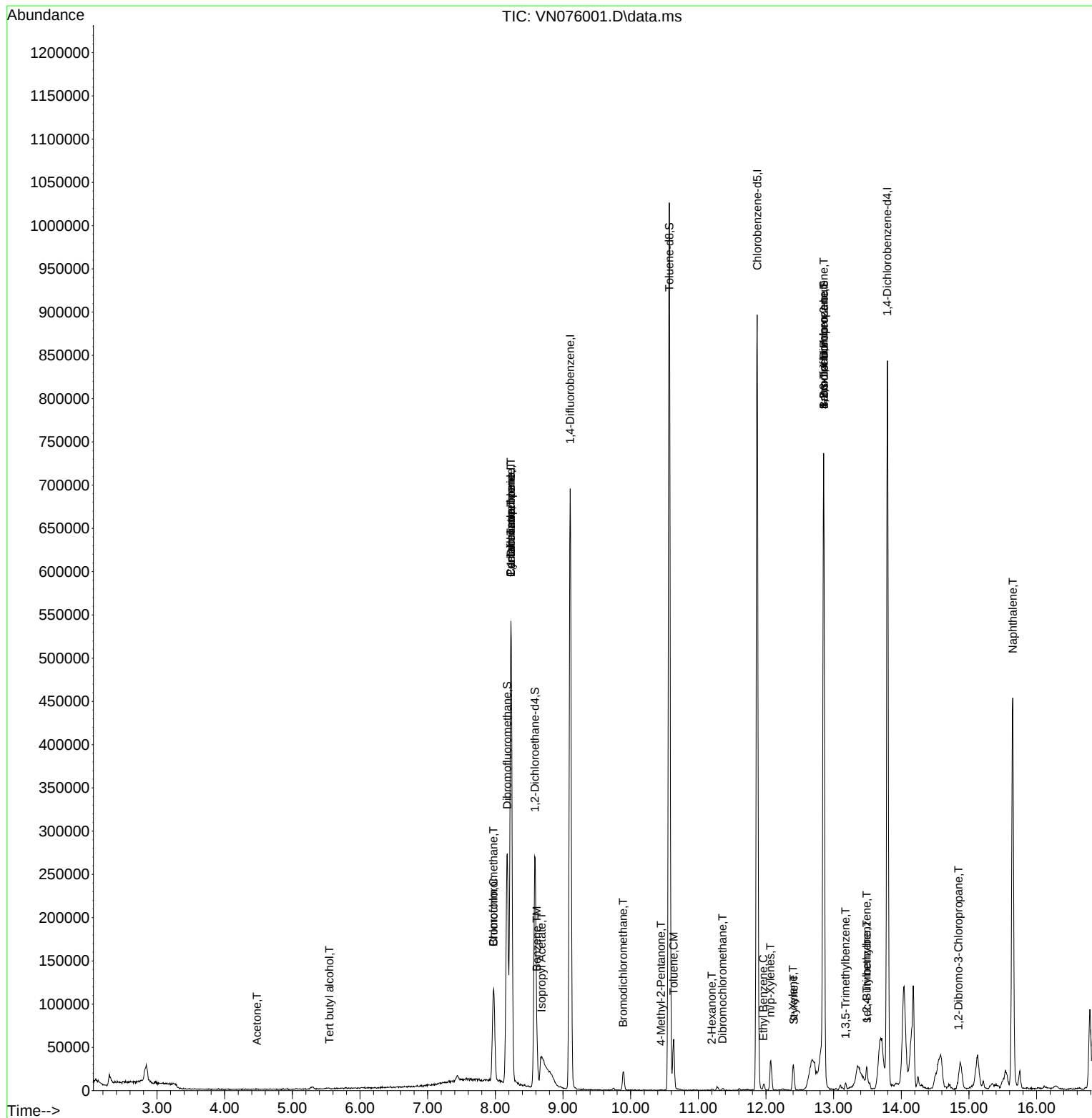
Internal Standards						
1) Pentafluorobenzene	8.230	168	419372	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	649832	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	552030	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	238580	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	209090	45.829	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.660%		
35) Dibromofluoromethane	8.177	113	188722	46.895	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.800%		
50) Toluene-d8	10.571	98	732036	48.652	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.300%		
62) 4-Bromofluorobenzene	12.853	95	240630	48.285	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.560%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.547	59	213	0.330	ug/l #	72
16) Acetone	4.477	43	840	0.534	ug/l #	39
20) Methylene Chloride	5.295	84	2106	Below Cal	#	72
28) Bromochloromethane	7.971	49	8087	2.621	ug/l #	4
30) Chloroform	7.971	83	107520	13.566	ug/l	99
31) Cyclohexane	8.230	56	8061	1.234	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	30497	5.705	ug/l #	49
38) Carbon Tetrachloride	8.230	117	40989	6.851	ug/l #	16
40) Benzene	8.612	78	30302	1.837	ug/l	98
43) Isopropyl Acetate	8.683	43	65864	9.298	ug/l #	51
47) Bromodichloromethane	9.888	83	15598	2.672	ug/l	88
51) 4-Methyl-2-Pentanone	10.447	43	857	0.200	ug/l #	32
52) Toluene	10.635	92	25169	2.343	ug/l	93
59) 2-Hexanone	11.200	43	884	0.283	ug/l #	20
60) Dibromochloromethane	11.359	129	1464	0.312	ug/l	73
67) Ethyl Benzene	11.959	91	5820	0.304	ug/l	89
68) m/p-Xylenes	12.065	106	12762	1.686	ug/l	94
69) o-Xylene	12.400	106	7350	0.981	ug/l	84
70) Styrene	12.412	104	4586	0.385	ug/l #	72
71) Bromoform	12.853	173	1948	0.638	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	121975	25.363	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.176	105	4062	0.282	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.853	75	121975	91.294	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.488	105	16261	1.136	ug/l	81
85) sec-Butylbenzene	13.488	105	16261	0.926	ug/l #	56
92) 1,2-Dibromo-3-Chloropr...	14.847	75	369	0.390	ug/l #	1
95) Naphthalene	15.647	128	447891	35.170	ug/l	99

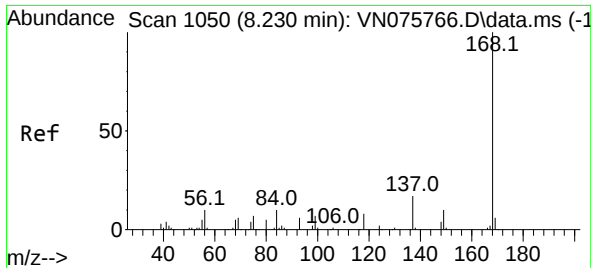
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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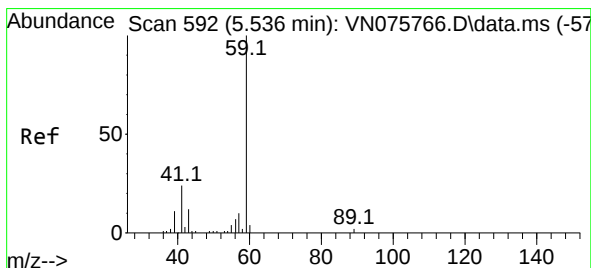
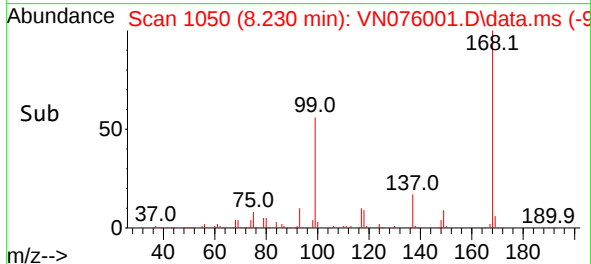
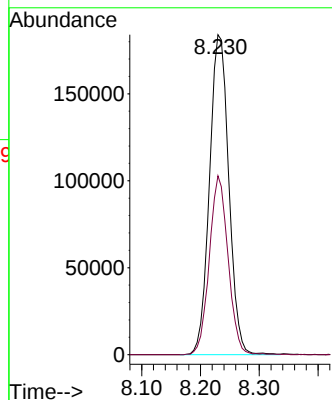
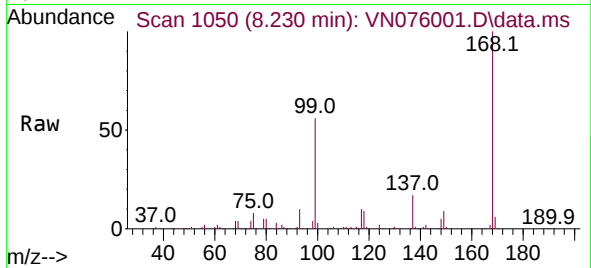




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

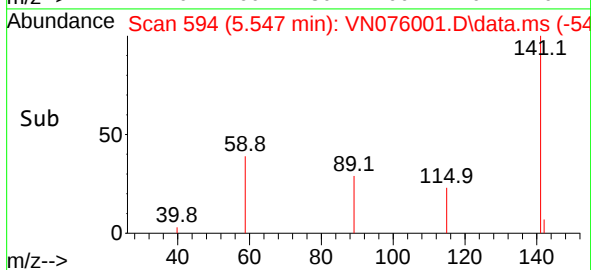
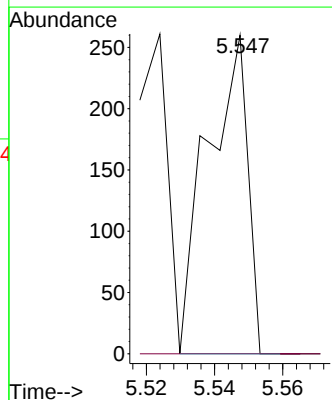
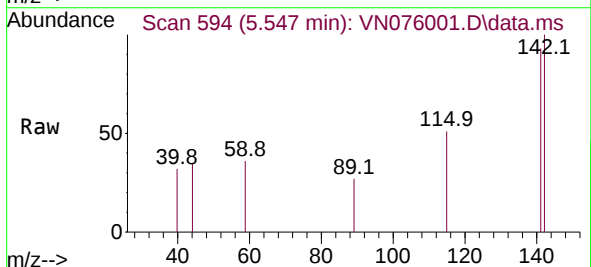
Instrument :
MSVOA_N
ClientSampleId :
IBLK

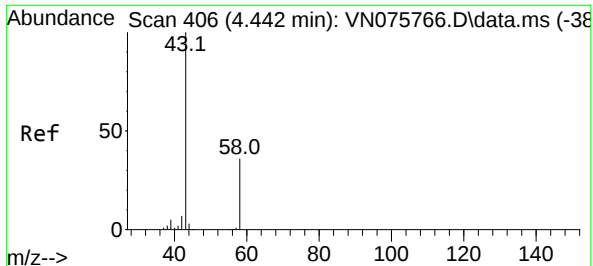
Tgt Ion:168 Resp: 419372
Ion Ratio Lower Upper
168 100
99 55.9 44.2 66.4



#11
Tert butyl alcohol
Concen: 0.330 ug/l
RT: 5.547 min Scan# 594
Delta R.T. 0.012 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

Tgt Ion: 59 Resp: 213
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 0.534 ug/l

RT: 4.477 min Scan# 412

Delta R.T. 0.035 min

Lab File: VN076001.D

Acq: 28 Dec 2022 15:45

Instrument :

MSVOA_N

ClientSampleId :

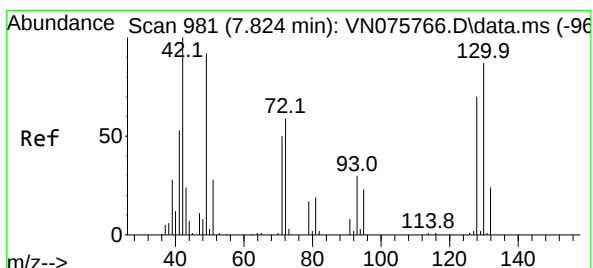
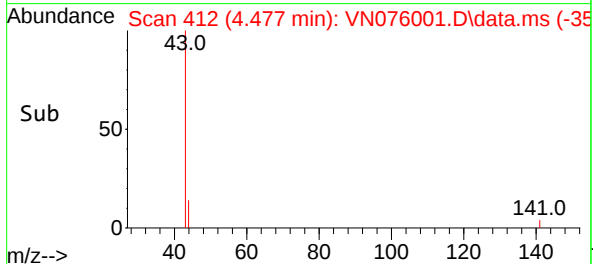
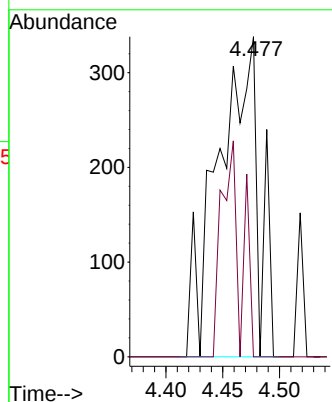
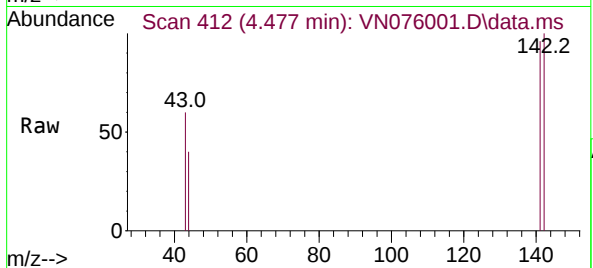
IBLK

Tgt Ion: 43 Resp: 840

Ion Ratio Lower Upper

43 100

58 0.0 28.6 43.0#



#28

Bromochloromethane

Concen: 2.621 ug/l

RT: 7.971 min Scan# 1006

Delta R.T. 0.147 min

Lab File: VN076001.D

Acq: 28 Dec 2022 15:45

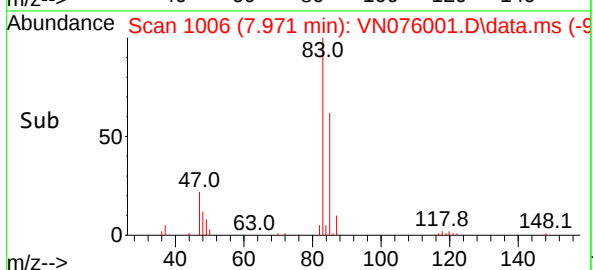
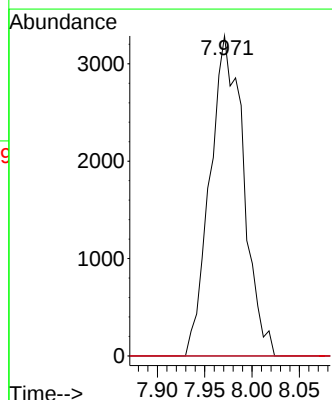
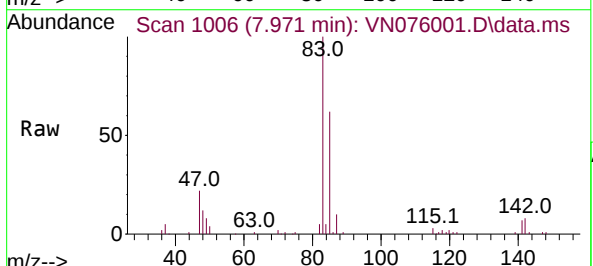
Tgt Ion: 49 Resp: 8087

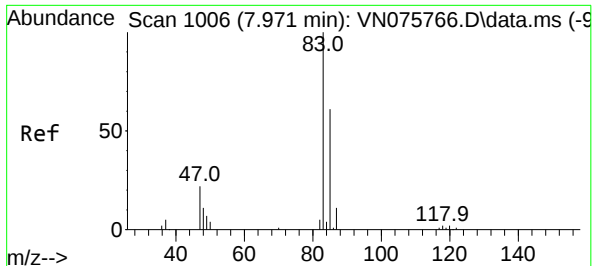
Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 0.0 77.0 115.4#





#30

Chloroform

Concen: 13.566 ug/l

RT: 7.971 min Scan# 1006

Delta R.T. 0.000 min

Lab File: VN076001.D

Acq: 28 Dec 2022 15:45

Instrument :

MSVOA_N

ClientSampleId :

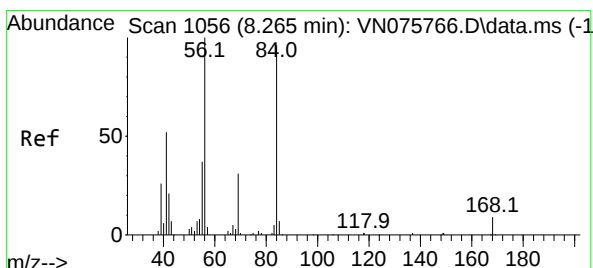
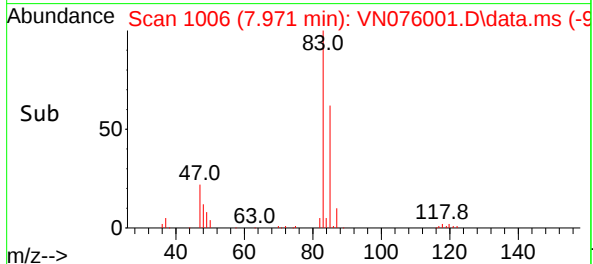
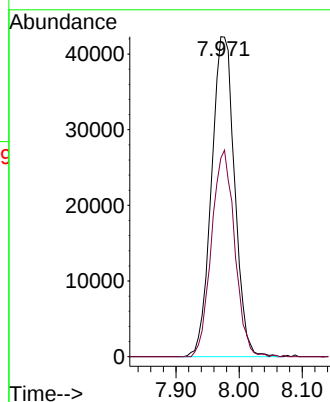
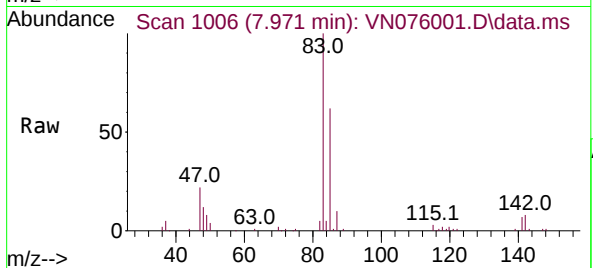
IBLK

Tgt Ion: 83 Resp: 107520

Ion Ratio Lower Upper

83 100

85 62.0 49.1 73.7



#31

Cyclohexane

Concen: 1.234 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN076001.D

Acq: 28 Dec 2022 15:45

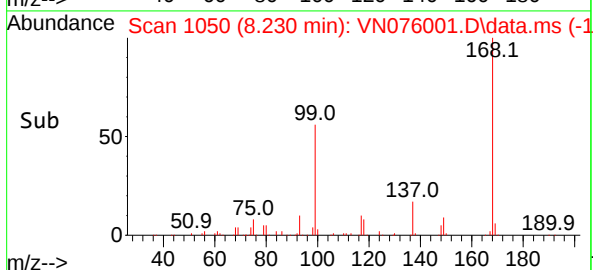
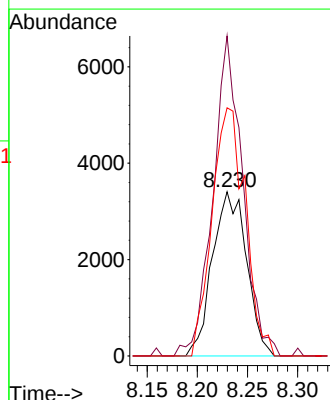
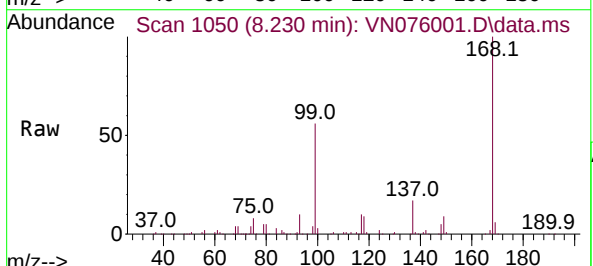
Tgt Ion: 56 Resp: 8061

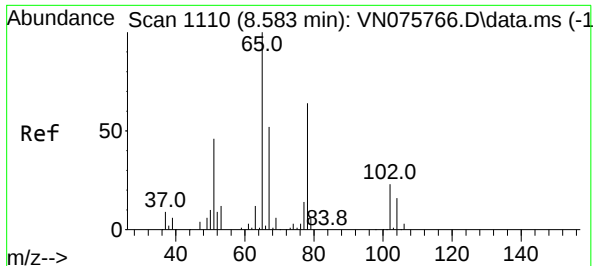
Ion Ratio Lower Upper

56 100

69 194.9 24.7 37.1#

84 151.2 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 45.829 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN076001.D

Acq: 28 Dec 2022 15:45

Instrument :

MSVOA_N

ClientSampleId :

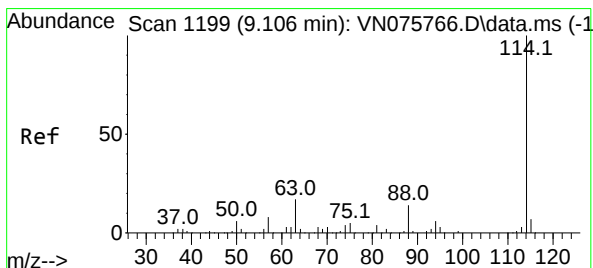
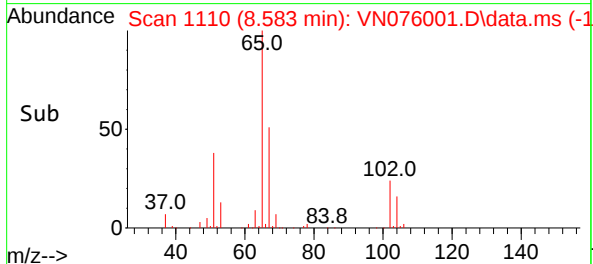
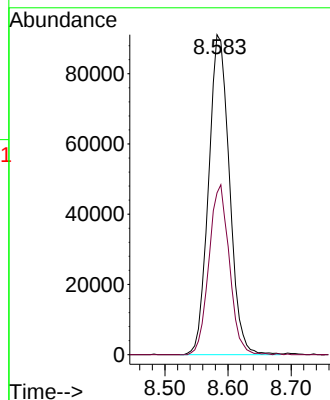
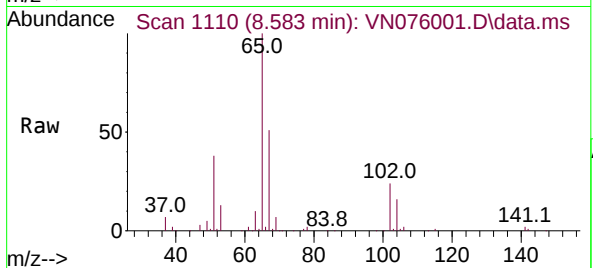
IBLK

Tgt Ion: 65 Resp: 209090

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN076001.D

Acq: 28 Dec 2022 15:45

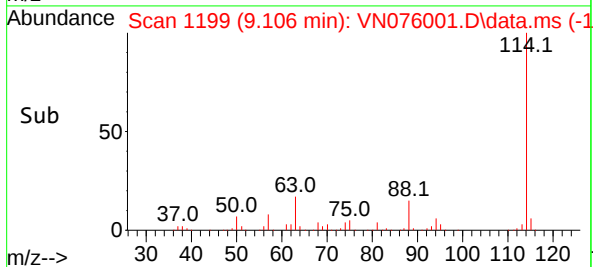
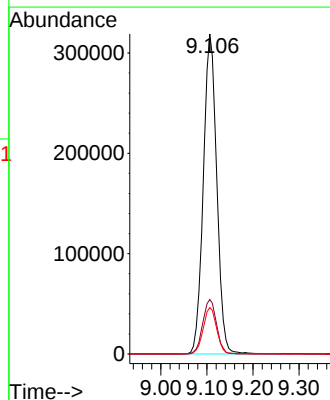
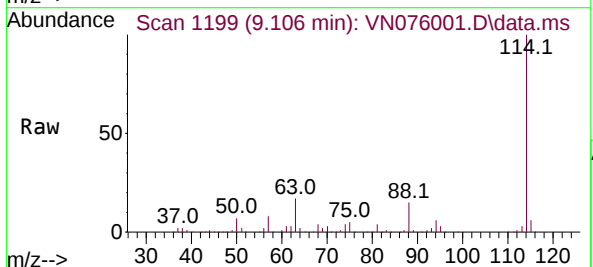
Tgt Ion: 114 Resp: 649832

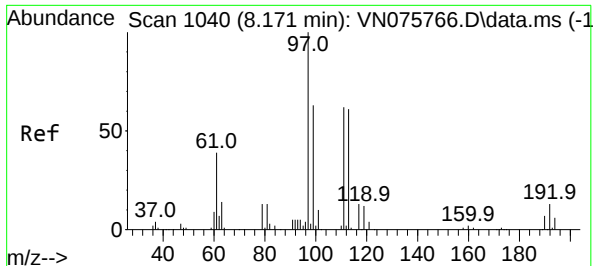
Ion Ratio Lower Upper

114 100

63 17.0 0.0 34.4

88 14.5 0.0 28.8





#35

Dibromofluoromethane

Concen: 46.895 ug/l

RT: 8.177 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VN076001.D

Acq: 28 Dec 2022 15:45

Instrument :

MSVOA_N

ClientSampleId :

IBLK

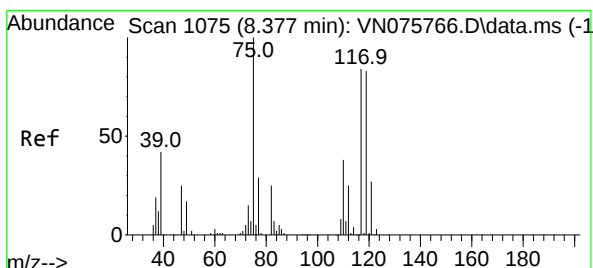
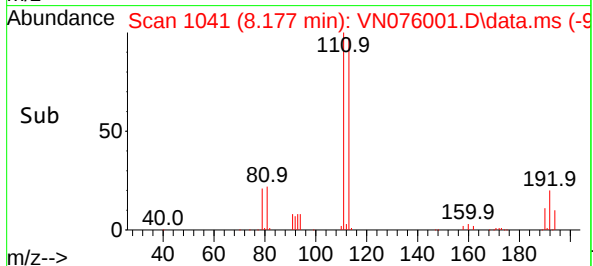
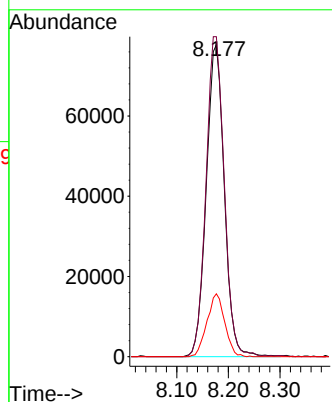
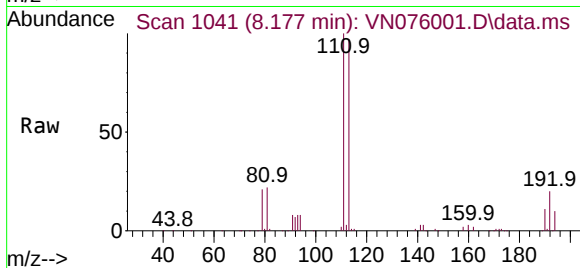
Tgt Ion:113 Resp: 188722

Ion Ratio Lower Upper

113 100

111 103.4 83.4 125.2

192 19.9 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.705 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076001.D

Acq: 28 Dec 2022 15:45

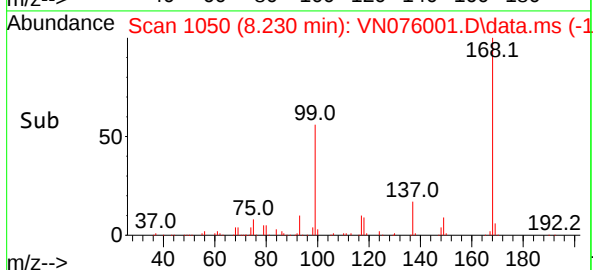
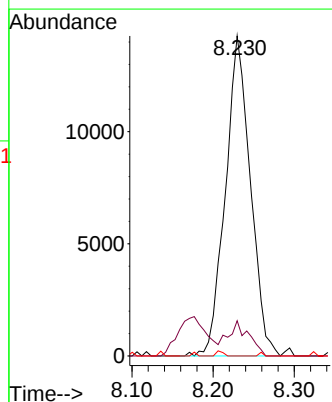
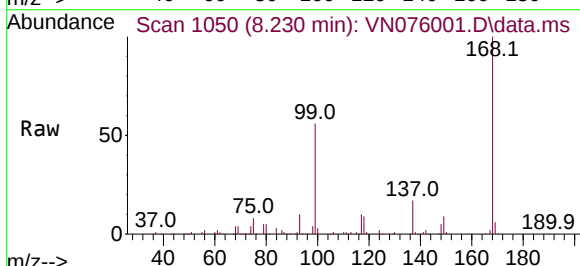
Tgt Ion: 75 Resp: 30497

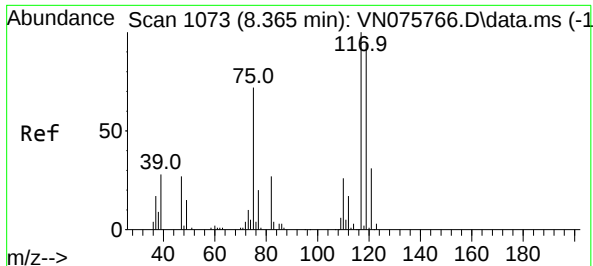
Ion Ratio Lower Upper

75 100

110 9.2 18.8 56.4#

77 0.0 24.1 36.1#

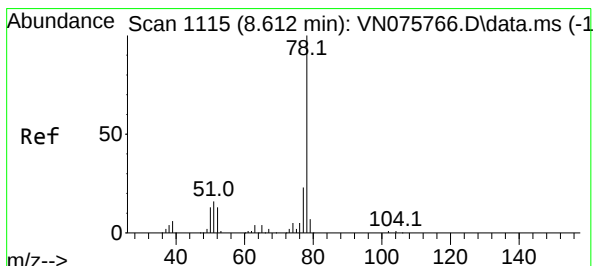
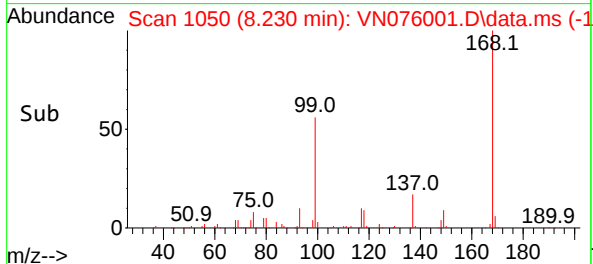
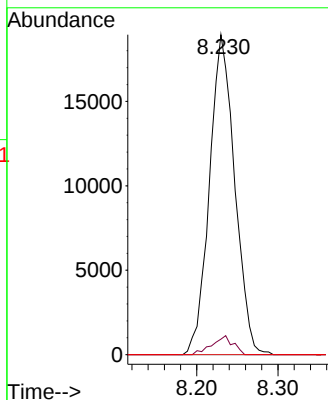
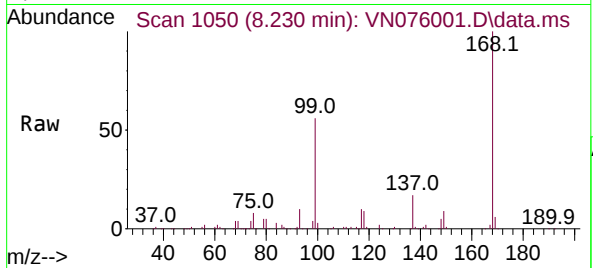




#38
Carbon Tetrachloride
Concen: 6.851 ug/l
RT: 8.230 min Scan# 1105
Delta R.T. -0.135 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

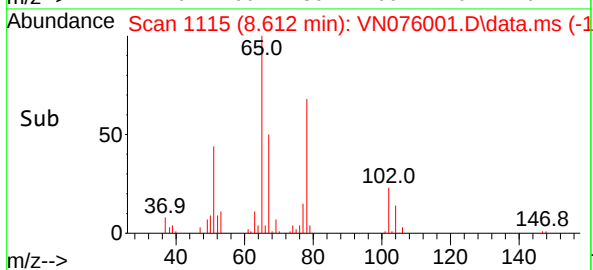
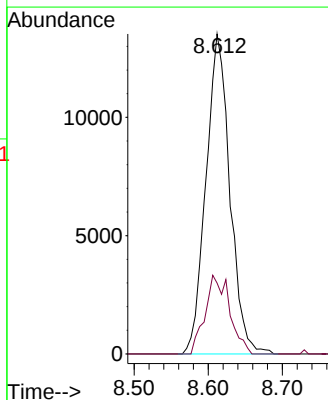
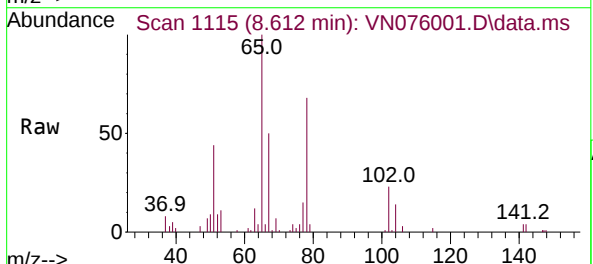
Instrument :
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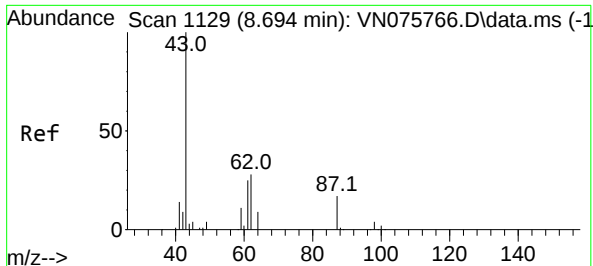
Tgt Ion:117 Resp: 40989
Ion Ratio Lower Upper
117 100
119 4.9 76.1 114.1#
121 0.0 24.5 36.7#



#40
Benzene
Concen: 1.837 ug/l
RT: 8.612 min Scan# 1115
Delta R.T. 0.000 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

Tgt Ion: 78 Resp: 30302
Ion Ratio Lower Upper
78 100
77 22.2 18.5 27.7





#43

Isopropyl Acetate

Concen: 9.298 ug/l

RT: 8.683 min Scan# 1127

Delta R.T. -0.012 min

Lab File: VN076001.D

Acq: 28 Dec 2022 15:45

Instrument :

MSVOA_N

ClientSampleId :

IBLK

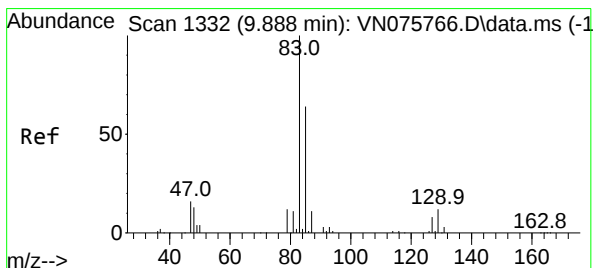
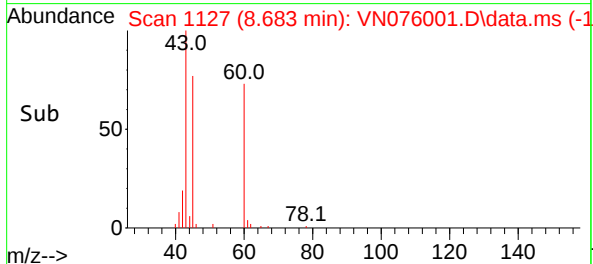
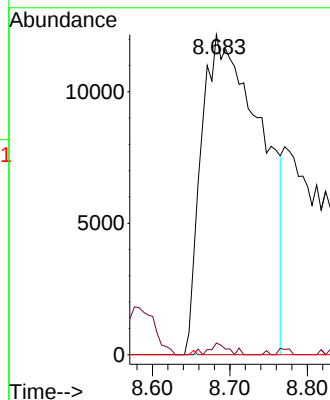
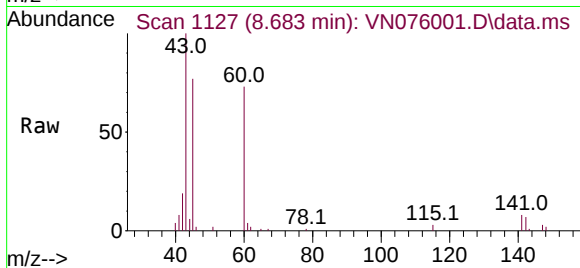
Tgt Ion: 43 Resp: 65864

Ion Ratio Lower Upper

43 100

61 0.9 24.2 36.4#

87 0.0 13.3 19.9#



#47

Bromodichloromethane

Concen: 2.672 ug/l

RT: 9.888 min Scan# 1332

Delta R.T. 0.000 min

Lab File: VN076001.D

Acq: 28 Dec 2022 15:45

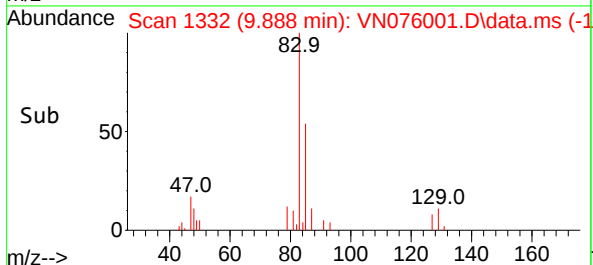
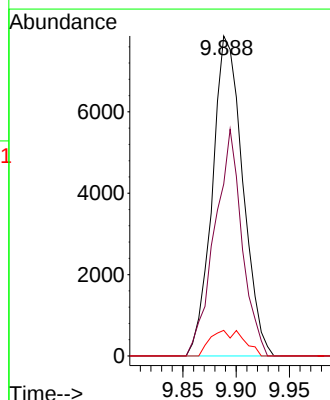
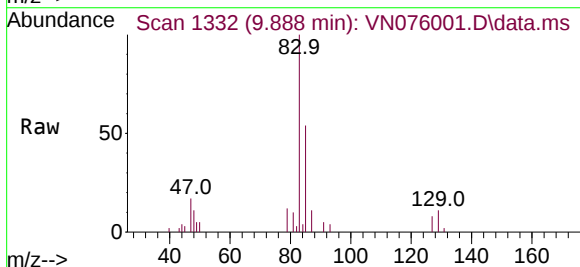
Tgt Ion: 83 Resp: 15598

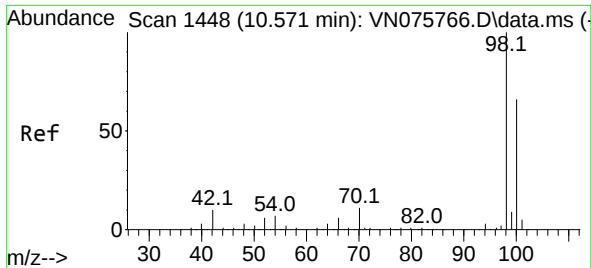
Ion Ratio Lower Upper

83 100

85 53.7 51.5 77.3

127 8.0 6.6 10.0

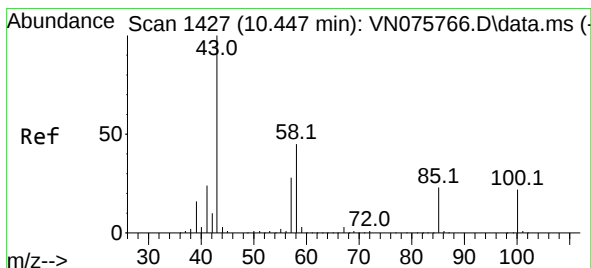
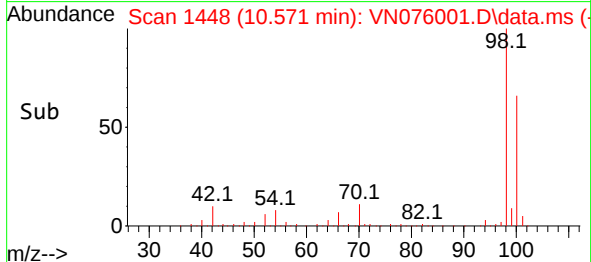
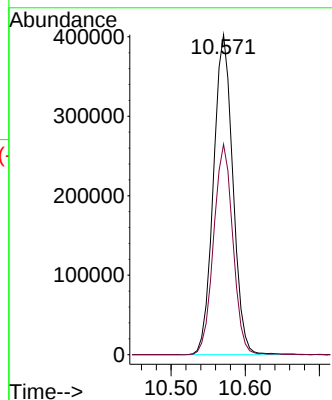
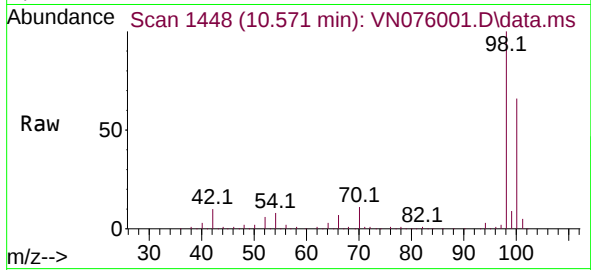




#50
Toluene-d8
Concen: 48.652 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

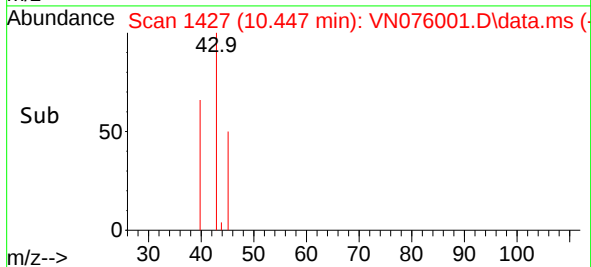
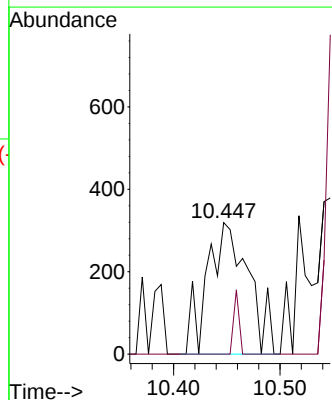
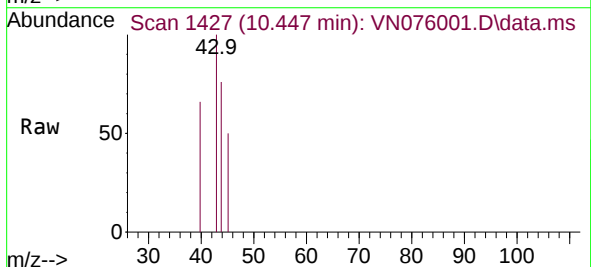
Instrument :
MSVOA_N
ClientSampleId :
IBLK

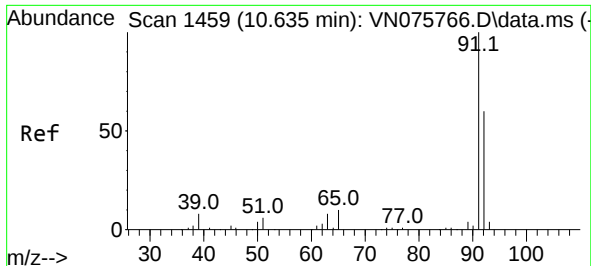
Tgt Ion: 98 Resp: 732036
Ion Ratio Lower Upper
98 100
100 65.3 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.200 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

Tgt Ion: 43 Resp: 857
Ion Ratio Lower Upper
43 100
58 0.0 35.5 53.3#

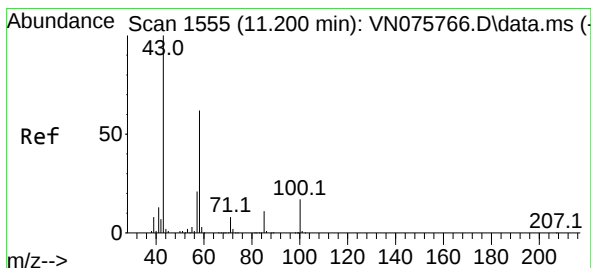
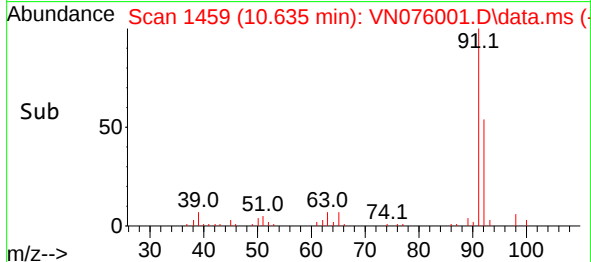
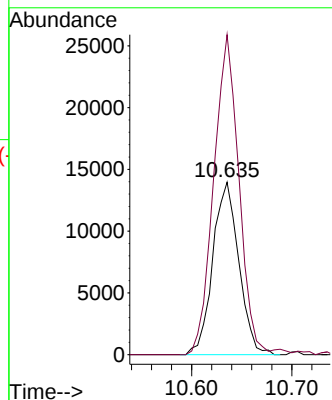
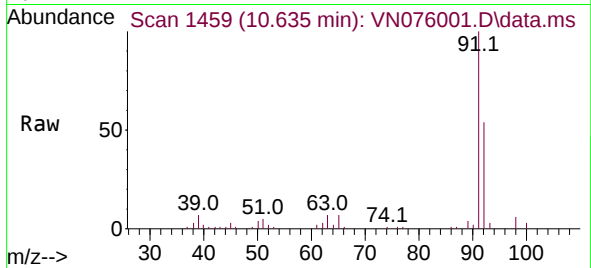




#52
Toluene
Concen: 2.343 ug/l
RT: 10.635 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

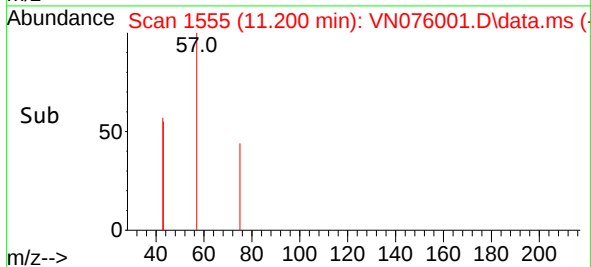
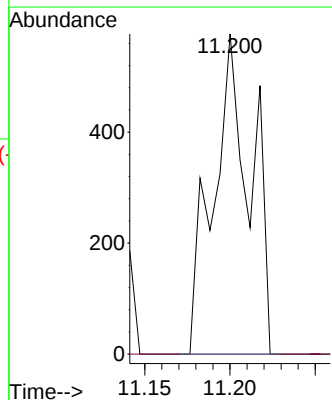
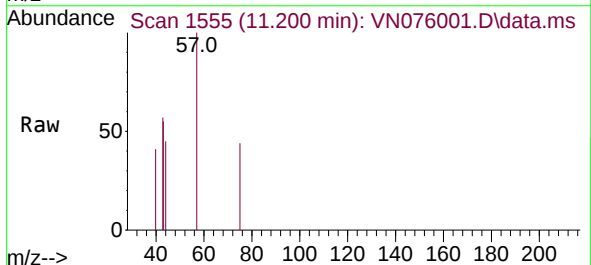
Instrument :
MSVOA_N
ClientSampleId :
IBLK

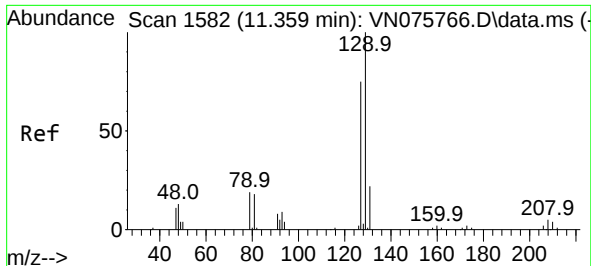
Tgt Ion: 92 Resp: 25169
Ion Ratio Lower Upper
92 100
91 181.0 137.3 205.9



#59
2-Hexanone
Concen: 0.283 ug/l
RT: 11.200 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

Tgt Ion: 43 Resp: 884
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#

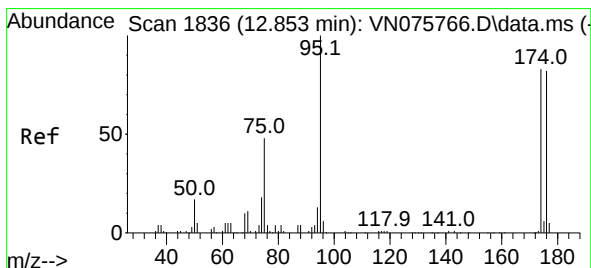
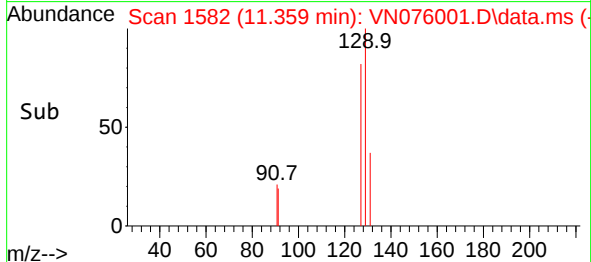
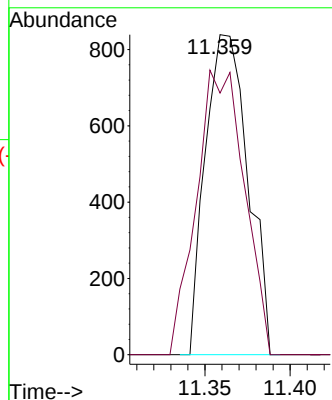
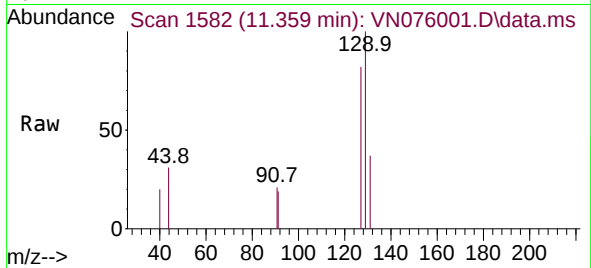




#60
Dibromochloromethane
Concen: 0.312 ug/l
RT: 11.359 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

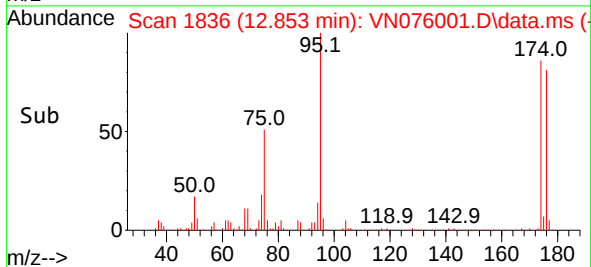
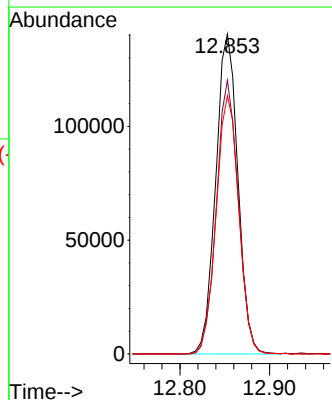
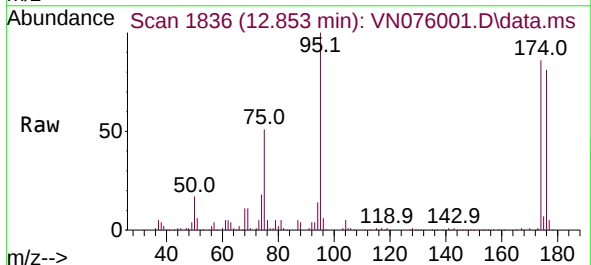
Instrument :
MSVOA_N
ClientSampleId :
IBLK

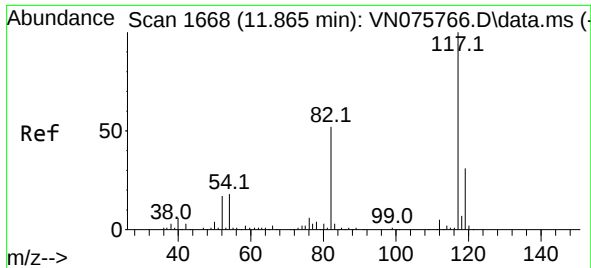
Tgt Ion:129 Resp: 1464
Ion Ratio Lower Upper
129 100
127 99.9 38.3 114.9



#62
4-Bromofluorobenzene
Concen: 48.285 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

Tgt Ion: 95 Resp: 240630
Ion Ratio Lower Upper
95 100
174 84.6 0.0 171.6
176 82.2 0.0 169.2

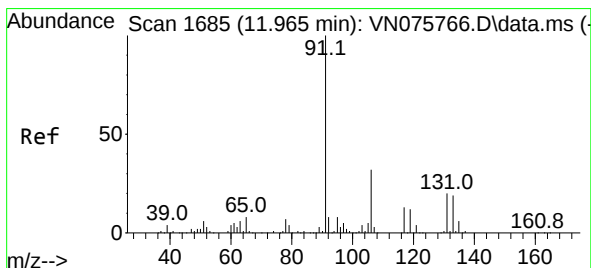
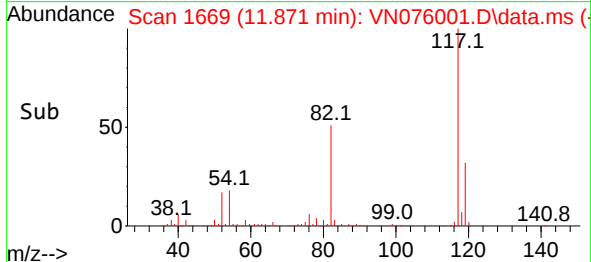
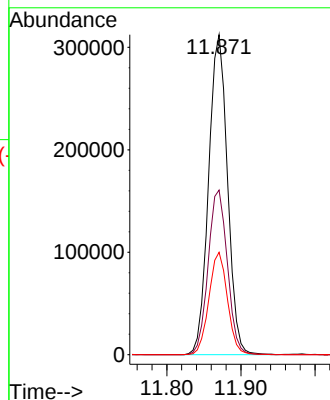
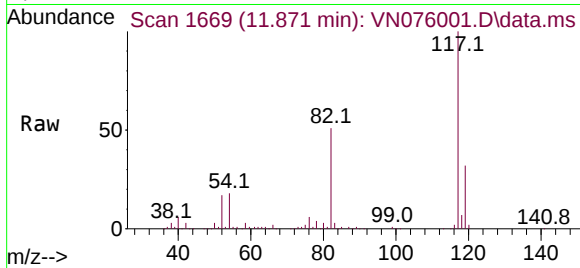




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

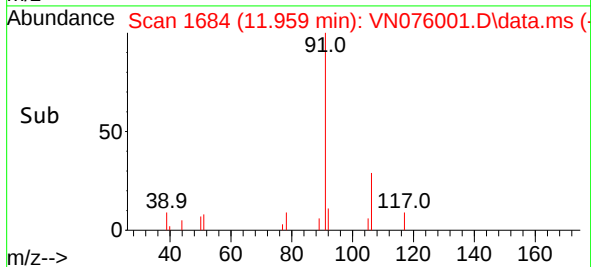
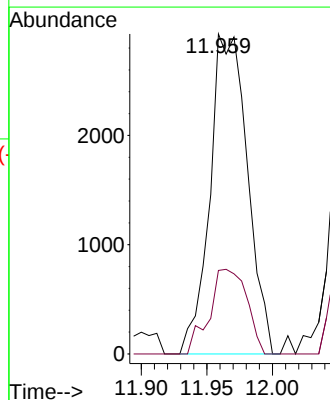
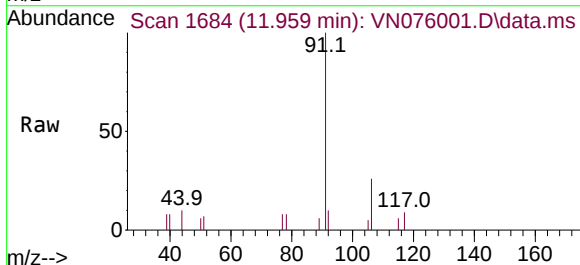
Instrument :
MSVOA_N
ClientSampleId :
IBLK

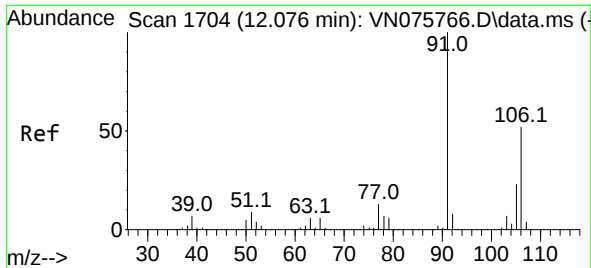
Tgt Ion:117 Resp: 552030
Ion Ratio Lower Upper
117 100
82 51.5 41.3 61.9
119 32.0 24.6 37.0



#67
Ethyl Benzene
Concen: 0.304 ug/l
RT: 11.959 min Scan# 1684
Delta R.T. -0.006 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

Tgt Ion: 91 Resp: 5820
Ion Ratio Lower Upper
91 100
106 26.1 25.7 38.5

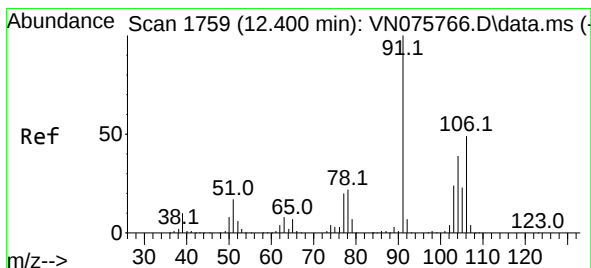
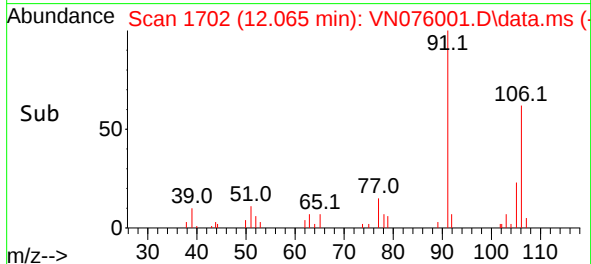
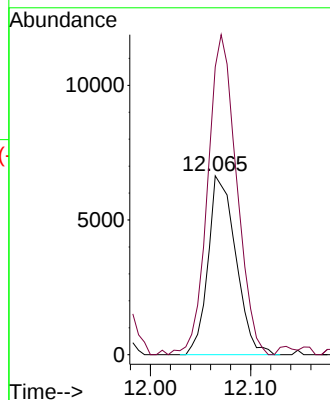
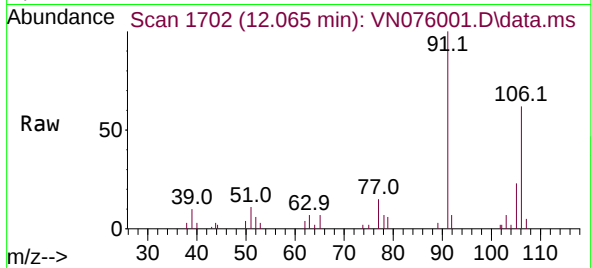




#68
m/p-Xylenes
Concen: 1.686 ug/l
RT: 12.065 min Scan# 1702
Delta R.T. -0.012 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

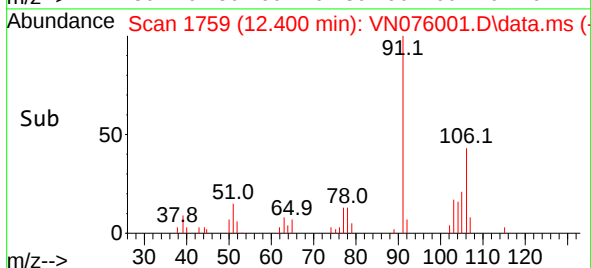
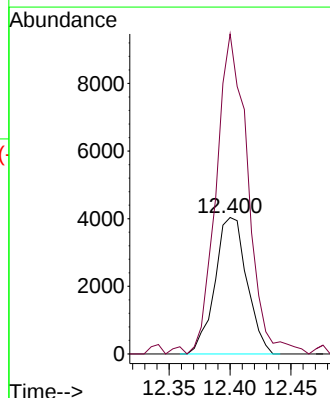
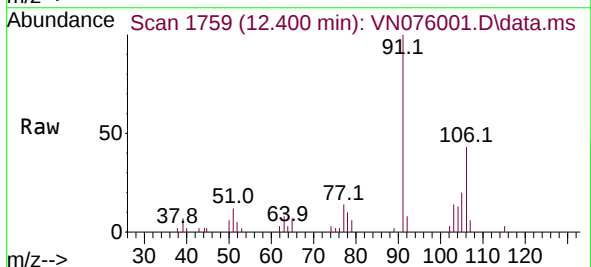
Instrument :
MSVOA_N
ClientSampleId :
IBLK

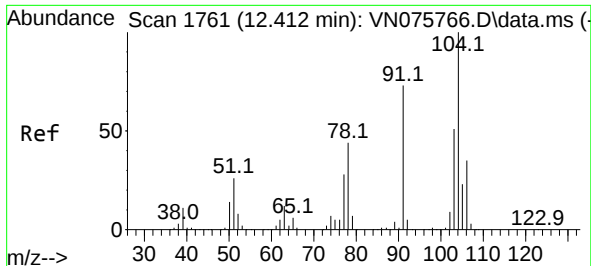
Tgt Ion:106 Resp: 12762
Ion Ratio Lower Upper
106 100
91 186.9 156.6 235.0



#69
o-Xylene
Concen: 0.981 ug/l
RT: 12.400 min Scan# 1759
Delta R.T. 0.000 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

Tgt Ion:106 Resp: 7350
Ion Ratio Lower Upper
106 100
91 232.6 103.8 311.6

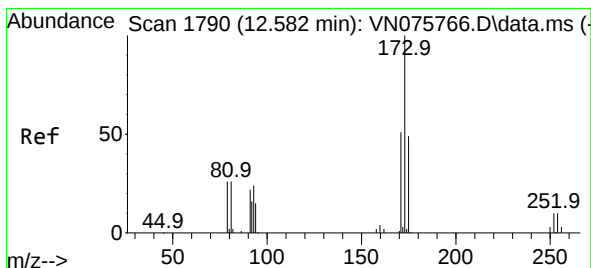
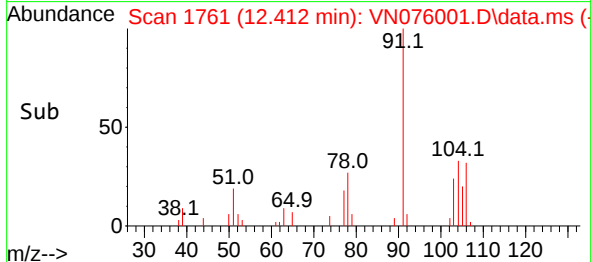
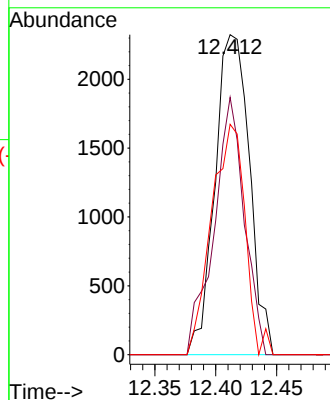
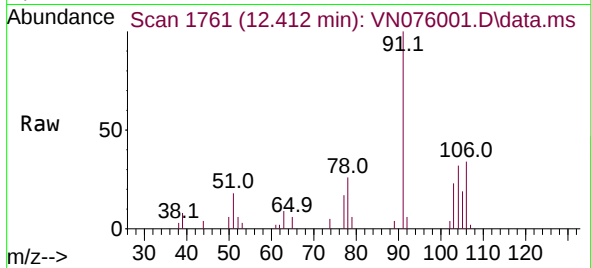




#70
Styrene
Concen: 0.385 ug/l
RT: 12.412 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

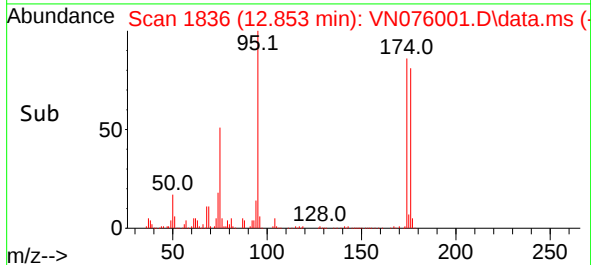
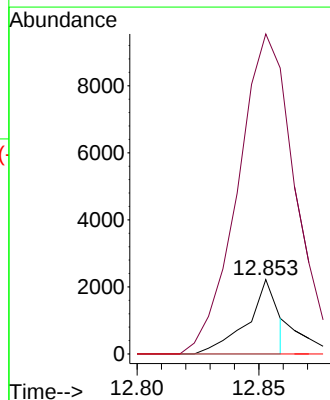
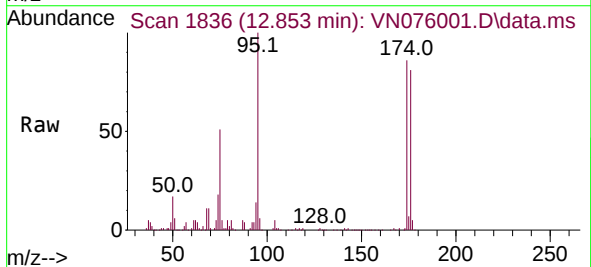
Instrument :
MSVOA_N
ClientSampleId :
IBLK

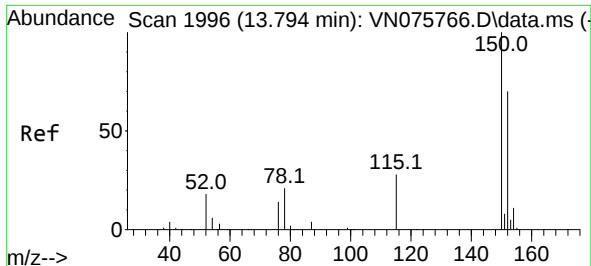
Tgt Ion:104 Resp: 4586
Ion Ratio Lower Upper
104 100
78 70.8 37.5 56.3#
103 69.8 43.5 65.3#



#71
Bromoform
Concen: 0.638 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

Tgt Ion:173 Resp: 1948
Ion Ratio Lower Upper
173 100
175 632.4 24.3 72.8#
254 0.0 0.0 0.0

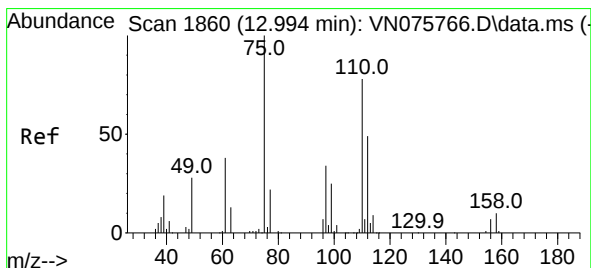
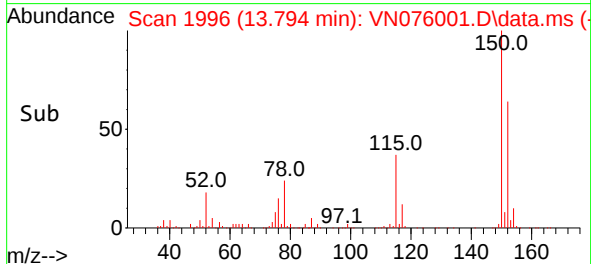
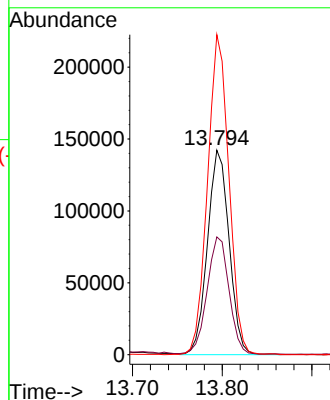
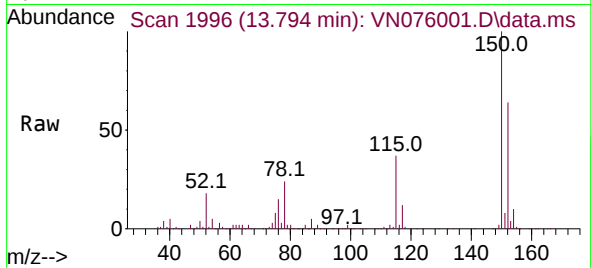




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. 0.000 min
 Lab File: VN076001.D
 Acq: 28 Dec 2022 15:45

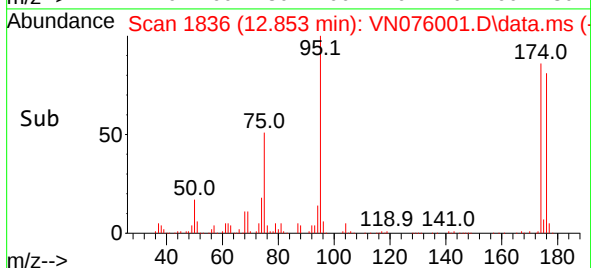
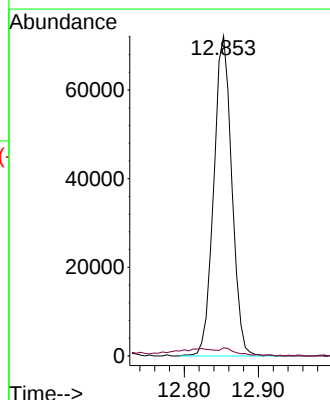
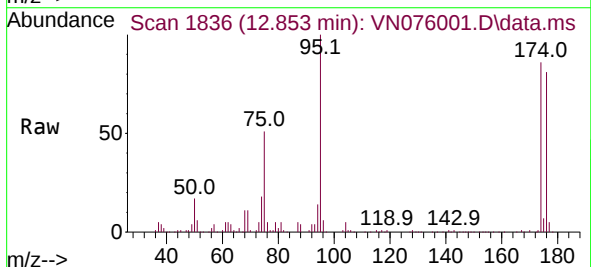
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

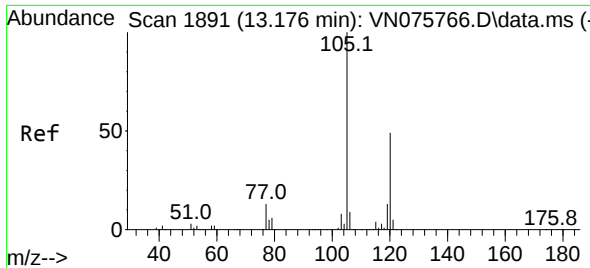
Tgt Ion:152 Resp: 238580
 Ion Ratio Lower Upper
 152 100
 115 57.9 29.1 87.4
 150 154.4 0.0 347.0



#76
 1,2,3-Trichloropropane
 Concen: 25.363 ug/l
 RT: 12.853 min Scan# 1836
 Delta R.T. -0.141 min
 Lab File: VN076001.D
 Acq: 28 Dec 2022 15:45

Tgt Ion: 75 Resp: 121975
 Ion Ratio Lower Upper
 75 100
 77 2.2 82.6 247.8#

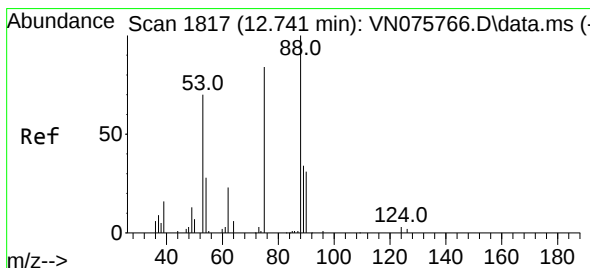
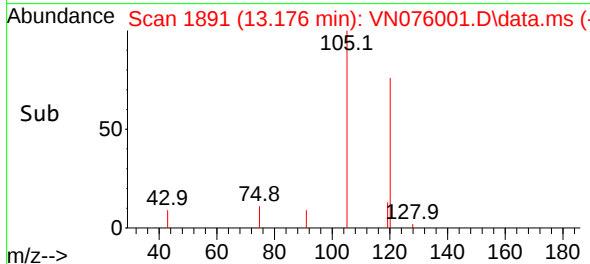
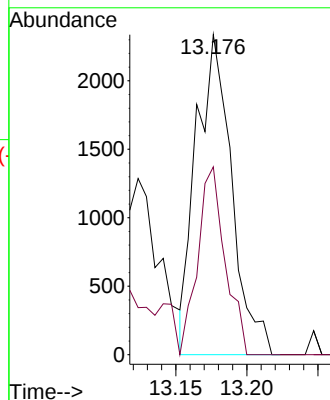
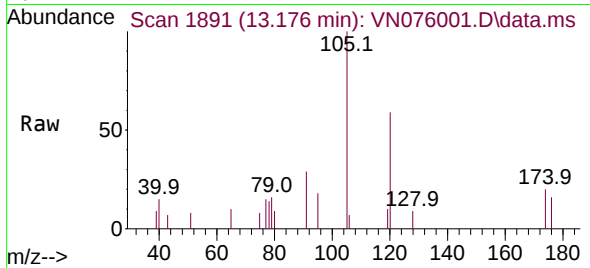




#80
1,3,5-Trimethylbenzene
Concen: 0.282 ug/l
RT: 13.176 min Scan# 1891
Delta R.T. 0.000 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

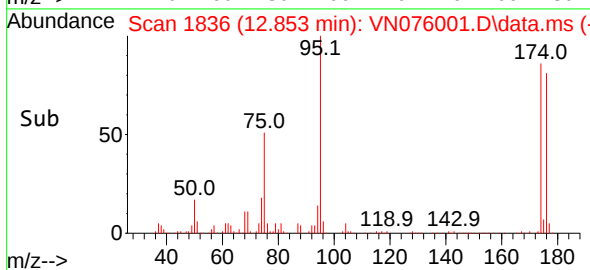
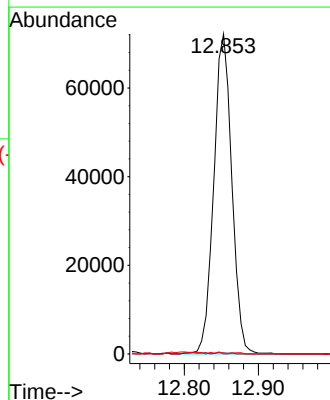
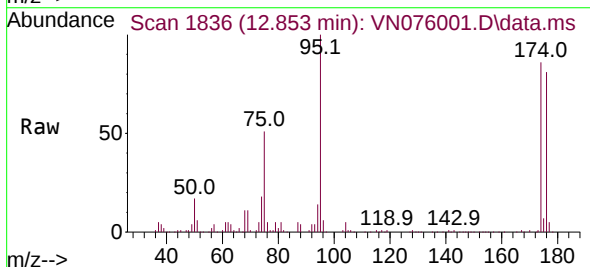
Instrument :
MSVOA_N
ClientSampleId :
IBLK

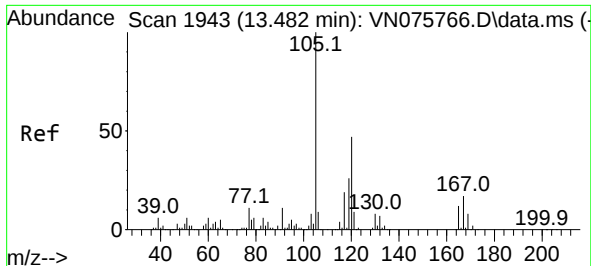
Tgt Ion:105 Resp: 4062
Ion Ratio Lower Upper
105 100
120 45.3 24.7 74.1



#81
trans-1,4-Dichloro-2-butene
Concen: 91.294 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

Tgt Ion: 75 Resp: 121975
Ion Ratio Lower Upper
75 100
53 0.3 73.8 110.6#
89 0.3 39.5 59.3#

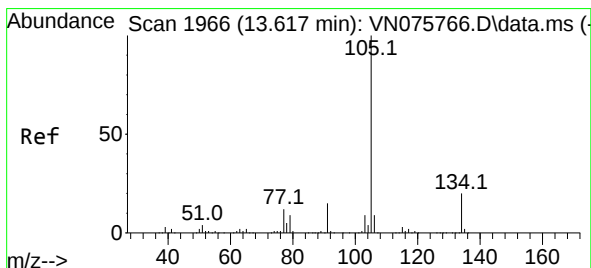
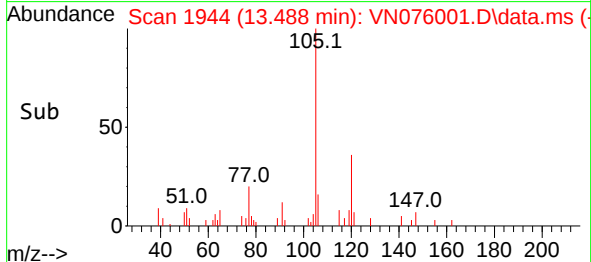
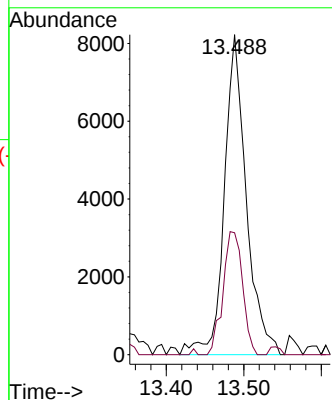
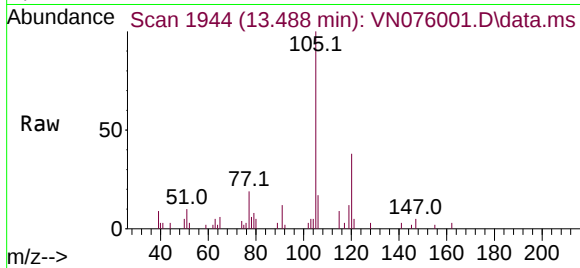




#84
1,2,4-Trimethylbenzene
Concen: 1.136 ug/l
RT: 13.488 min Scan# 1944
Delta R.T. 0.006 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

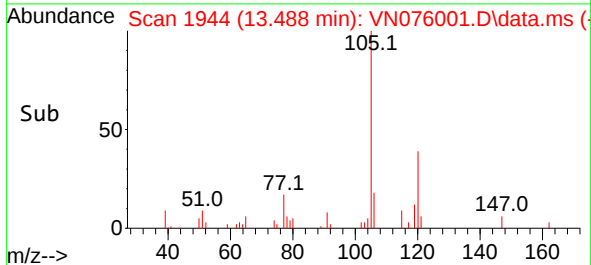
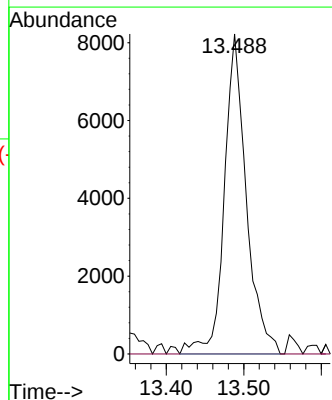
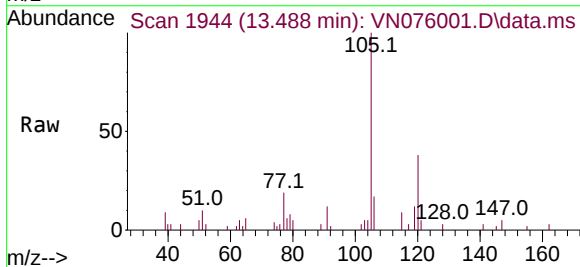
Instrument :
MSVOA_N
ClientSampleId :
IBLK

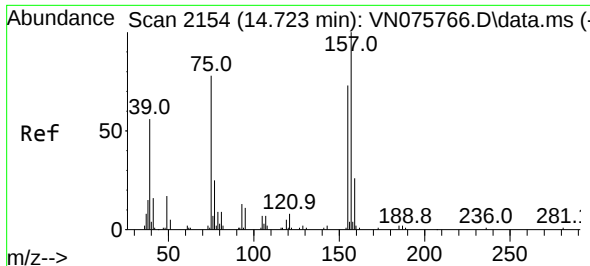
Tgt Ion:105 Resp: 16261
Ion Ratio Lower Upper
105 100
120 34.1 23.3 69.8



#85
sec-Butylbenzene
Concen: 0.926 ug/l
RT: 13.488 min Scan# 1944
Delta R.T. -0.129 min
Lab File: VN076001.D
Acq: 28 Dec 2022 15:45

Tgt Ion:105 Resp: 16261
Ion Ratio Lower Upper
105 100
134 0.0 10.1 30.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.390 ug/l

RT: 14.847 min Scan# 2154

Delta R.T. 0.124 min

Lab File: VN076001.D

Acq: 28 Dec 2022 15:45

Instrument :

MSVOA_N

ClientSampleId :

IBLK

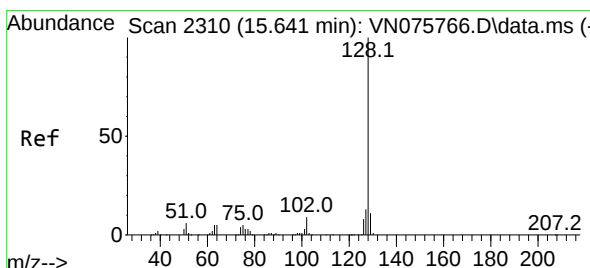
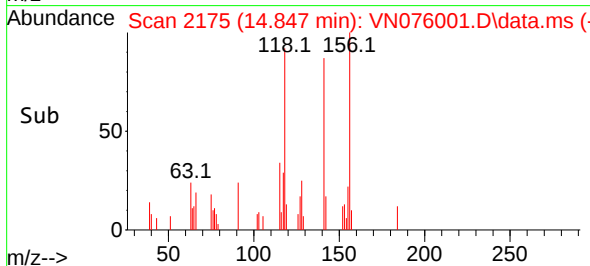
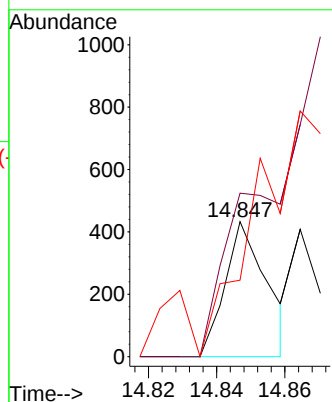
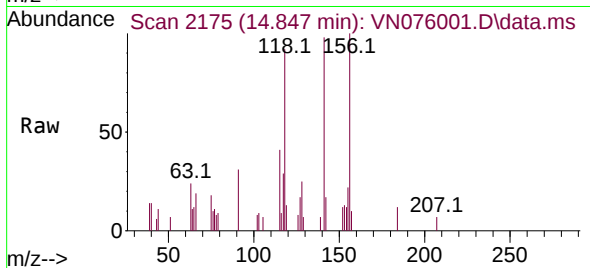
Tgt Ion: 75 Resp: 369

Ion Ratio Lower Upper

75 100

155 0.0 49.3 147.8#

157 0.0 63.7 191.3#



#95

Naphthalene

Concen: 35.170 ug/l

RT: 15.647 min Scan# 2311

Delta R.T. 0.006 min

Lab File: VN076001.D

Acq: 28 Dec 2022 15:45

Tgt Ion: 128 Resp: 447891

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

129 10.9 8.7 13.1

