

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120922\
 Data File : VN075662.D
 Acq On : 09 Dec 2022 11:46
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Dec 12 01:48:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120922W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 09 14:57:34 2022
 Response via : Initial Calibration

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

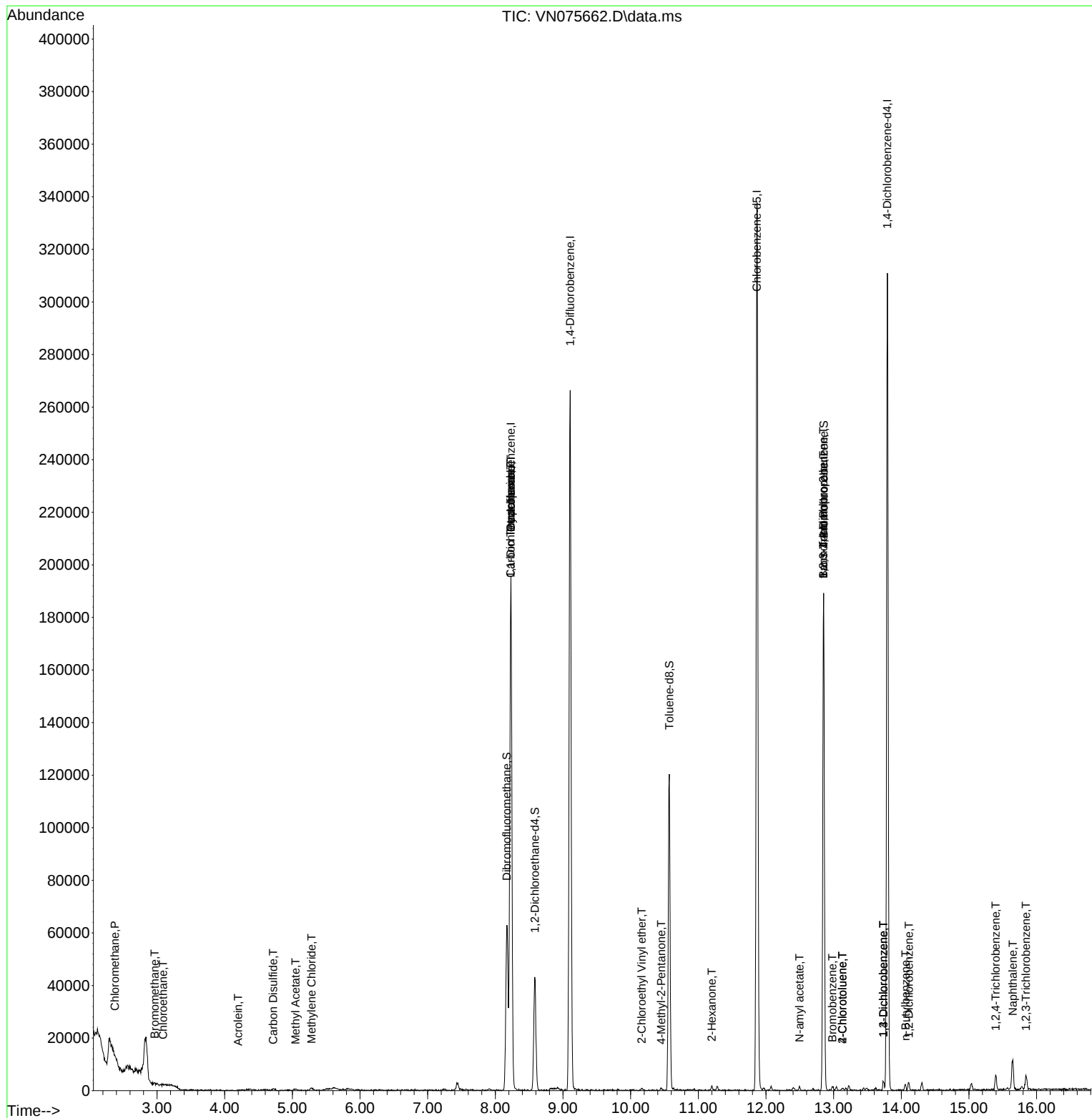
Internal Standards						
1) Pentafluorobenzene	8.229	168	153708	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	246895	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	215602	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	91718	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	35918	22.024	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	44.040%#		
35) Dibromofluoromethane	8.171	113	46052	30.572	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	61.140%#		
50) Toluene-d8	10.570	98	88181	15.588	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	31.180%#		
62) 4-Bromofluorobenzene	12.853	95	62257	32.188	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	64.380%#		
Target Compounds						Qvalue
3) Chloromethane	2.377	50	452	0.336	ug/l #	40
5) Bromomethane	2.965	94	290	0.206	ug/l	85
6) Chloroethane	3.089	64	503	0.407	ug/l #	43
13) Acrolein	4.200	56	121	0.435	ug/l #	15
17) Carbon Disulfide	4.718	76	1212	0.348	ug/l #	74
18) Methyl Acetate	5.047	43	1025	0.578	ug/l #	44
20) Methylene Chloride	5.283	84	768	0.466	ug/l #	53
31) Cyclohexane	8.229	56	2664	1.103	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	10107	5.053	ug/l #	49
38) Carbon Tetrachloride	8.224	117	14148	6.130	ug/l #	16
51) 4-Methyl-2-Pentanone	10.453	43	790	0.478	ug/l #	71
58) 2-Chloroethyl Vinyl ether	10.165	63	533	0.835	ug/l #	41
59) 2-Hexanone	11.200	43	1208	1.006	ug/l	95
71) Bromoform	12.847	173	247	0.202	ug/l #	1
74) N-amyl acetate	12.494	43	791	0.413	ug/l #	69
76) 1,2,3-Trichloropropane	12.847	75	31766	17.246	ug/l #	1
77) Bromobenzene	12.982	156	535	0.323	ug/l	81
79) 2-Chlorotoluene	13.129	91	981	0.217	ug/l	73
81) trans-1,4-Dichloro-2-b...	12.847	75	31766	55.857	ug/l #	13
82) 4-Chlorotoluene	13.129	91	981	0.217	ug/l	73
87) 1,3-Dichlorobenzene	13.735	146	1669	0.539	ug/l	88
88) 1,4-Dichlorobenzene	13.735	146	1669	0.530	ug/l	89
89) n-Butylbenzene	14.064	91	1926	0.418	ug/l	86
91) 1,2-Dichlorobenzene	14.111	146	1867	0.606	ug/l	92
93) 1,2,4-Trichlorobenzene	15.394	180	2337	1.579	ug/l	85
95) Naphthalene	15.647	128	12424	2.841	ug/l	98
96) 1,2,3-Trichlorobenzene	15.841	180	2867	1.972	ug/l	95

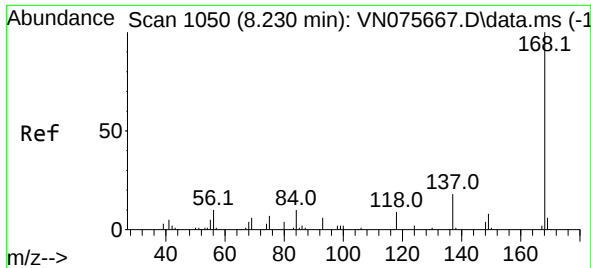
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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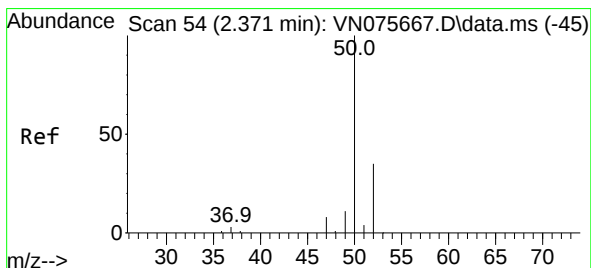
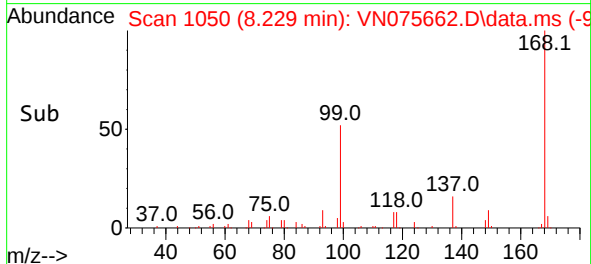
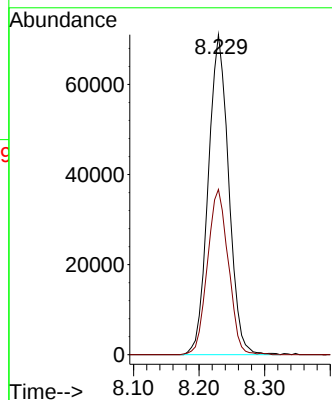
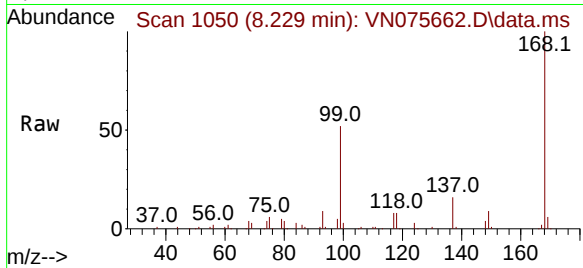




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

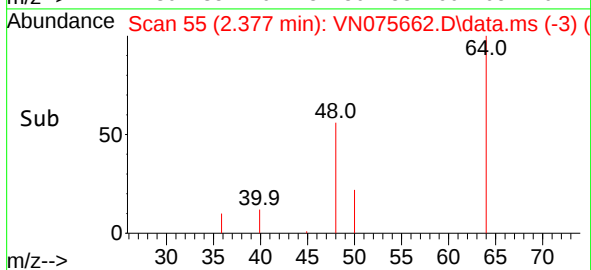
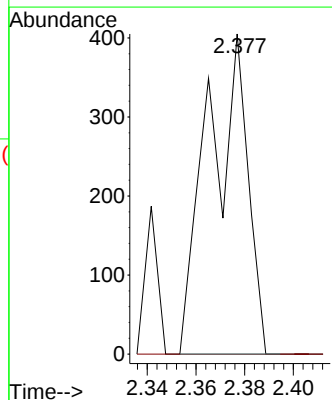
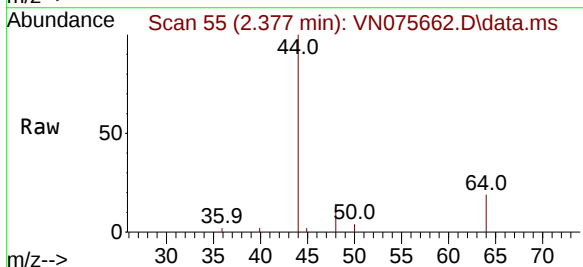
Instrument :
MSVOA_N
ClientSampleId :
IBLK

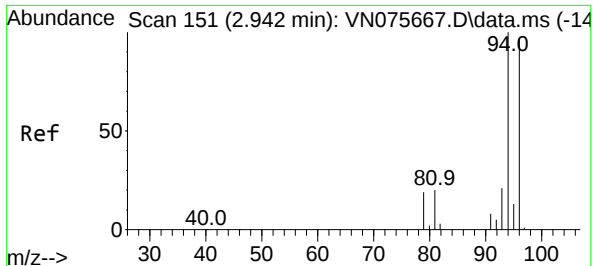
Tgt Ion:168 Resp: 153708
Ion Ratio Lower Upper
168 100
99 51.6 41.2 61.8



#3
Chloromethane
Concen: 0.336 ug/l
RT: 2.377 min Scan# 55
Delta R.T. 0.006 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

Tgt Ion: 50 Resp: 452
Ion Ratio Lower Upper
50 100
52 0.0 27.9 41.9#

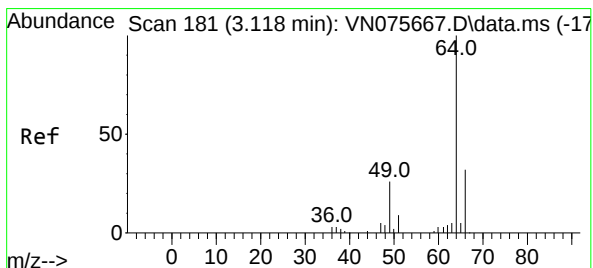
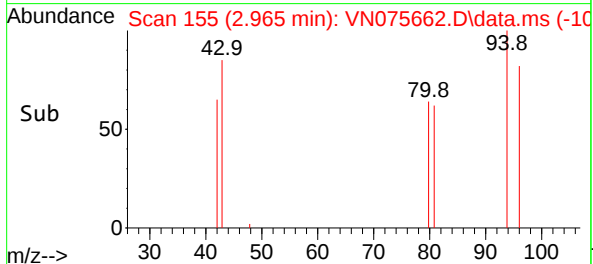
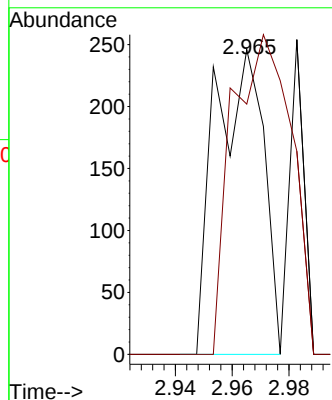
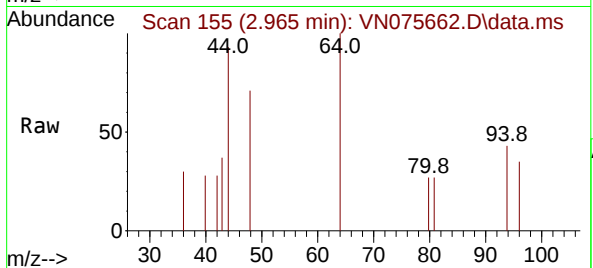




#5
Bromomethane
Concen: 0.206 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

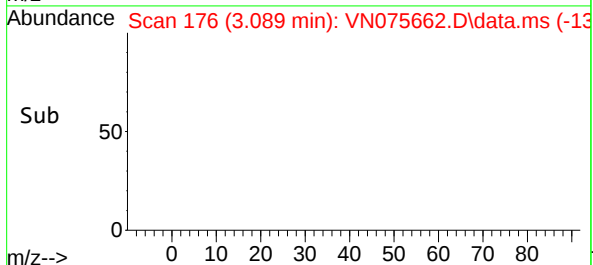
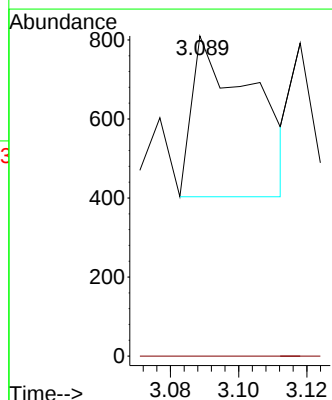
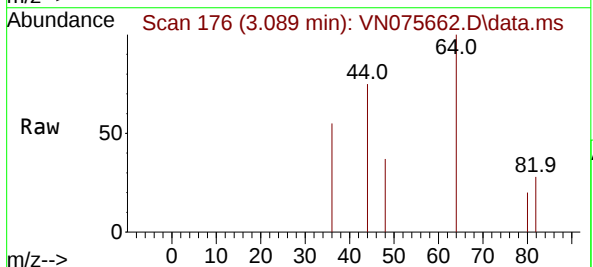
Instrument :
MSVOA_N
ClientSampleId :
IBLK

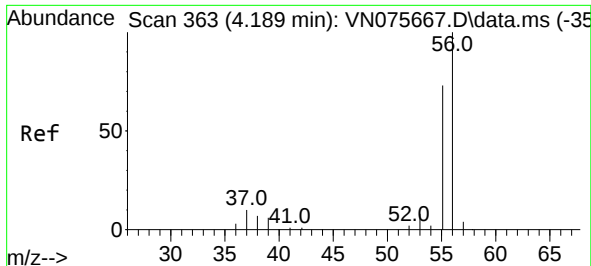
Tgt Ion: 94 Resp: 290
Ion Ratio Lower Upper
94 100
96 82.1 77.6 116.4



#6
Chloroethane
Concen: 0.407 ug/l
RT: 3.089 min Scan# 176
Delta R.T. -0.029 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

Tgt Ion: 64 Resp: 503
Ion Ratio Lower Upper
64 100
66 0.0 25.7 38.5#





#13

Acrolein

Concen: 0.435 ug/l

RT: 4.200 min Scan# 3

Delta R.T. 0.012 min

Lab File: VN075662.D

Acq: 09 Dec 2022 11:46

Instrument :

MSVOA_N

ClientSampleId :

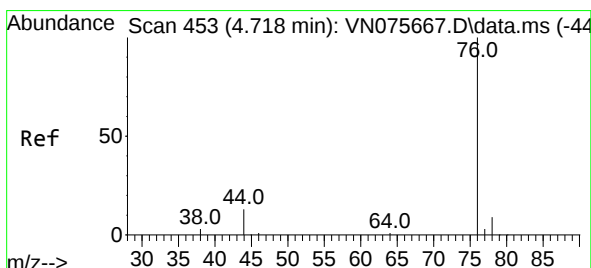
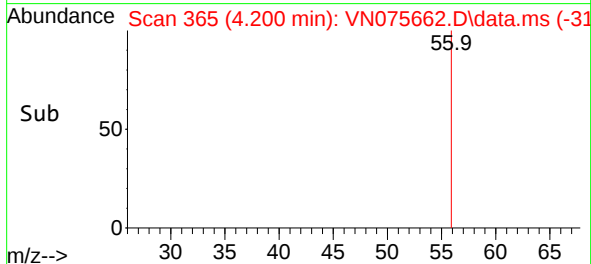
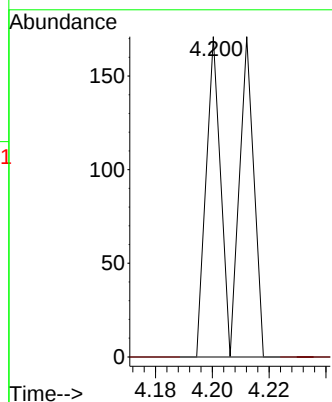
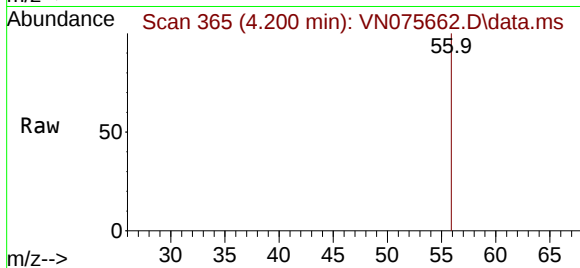
IBLK

Tgt Ion: 56 Resp: 121

Ion Ratio Lower Upper

56 100

55 0.0 55.7 83.5#



#17

Carbon Disulfide

Concen: 0.348 ug/l

RT: 4.718 min Scan# 453

Delta R.T. -0.000 min

Lab File: VN075662.D

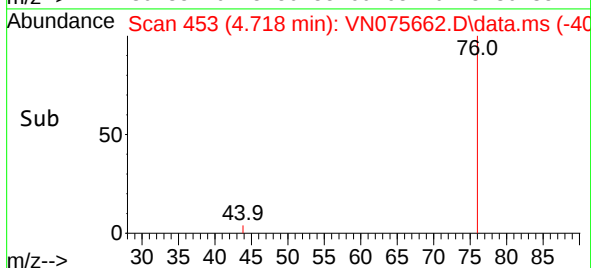
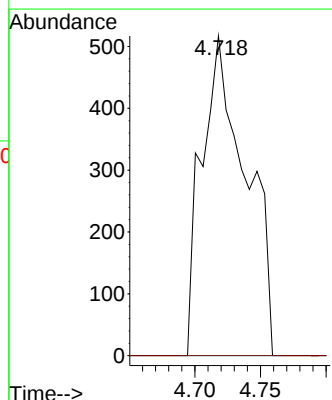
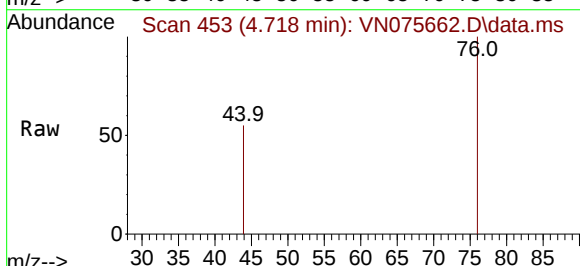
Acq: 09 Dec 2022 11:46

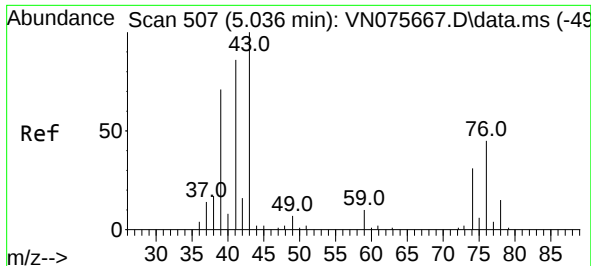
Tgt Ion: 76 Resp: 1212

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#

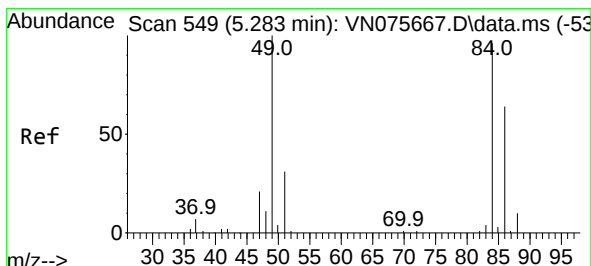
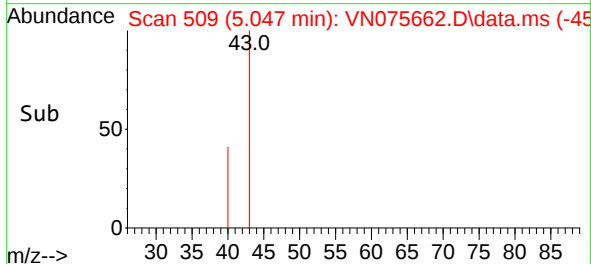
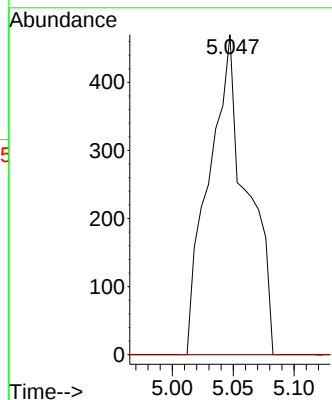
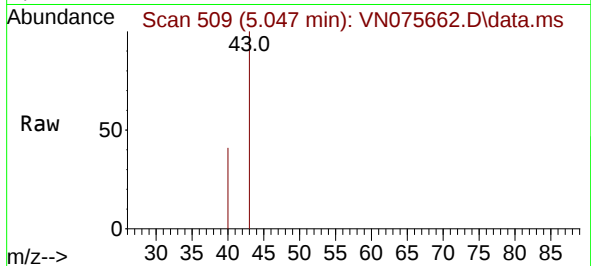




#18
Methyl Acetate
Concen: 0.578 ug/l
RT: 5.047 min Scan# 509
Delta R.T. 0.012 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

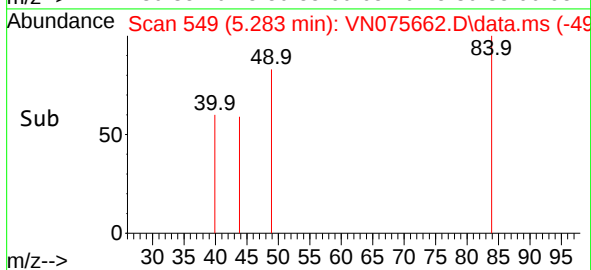
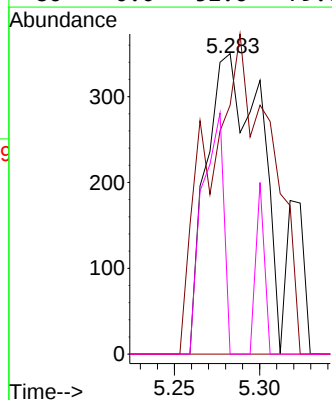
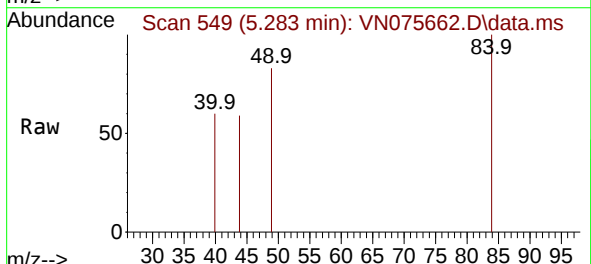
Instrument :
MSVOA_N
ClientSampleId :
IBLK

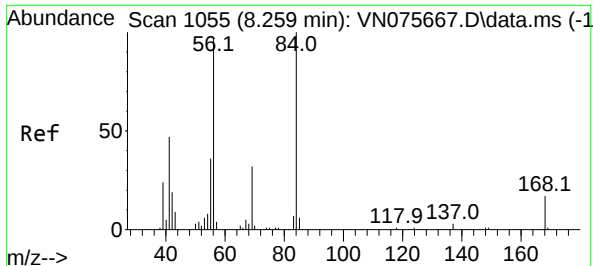
Tgt Ion: 43 Resp: 1025
Ion Ratio Lower Upper
43 100
74 0.0 24.5 36.7#



#20
Methylene Chloride
Concen: 0.466 ug/l
RT: 5.283 min Scan# 549
Delta R.T. -0.000 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

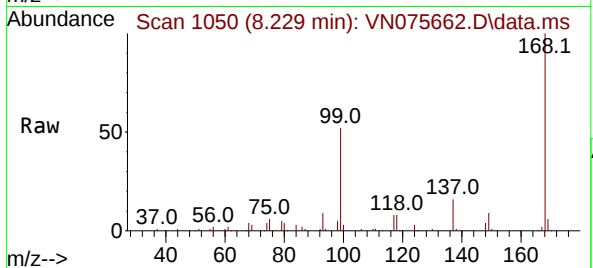
Tgt Ion: 84 Resp: 768
Ion Ratio Lower Upper
84 100
49 82.9 83.0 124.4#
51 0.0 26.0 39.0#
86 0.0 52.6 79.0#



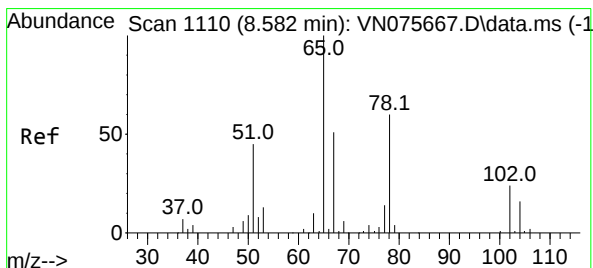
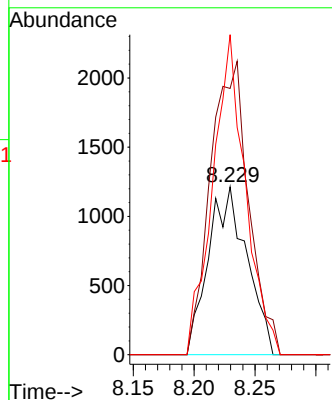
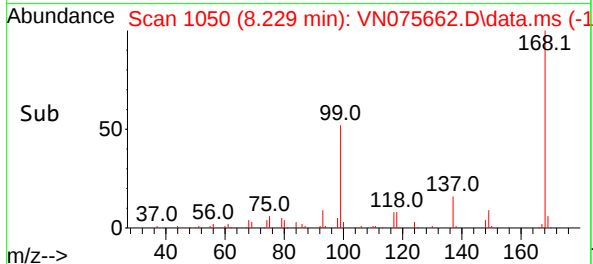


#31
Cyclohexane
Concen: 1.103 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

Instrument :
MSVOA_N
ClientSampleId :
IBLK

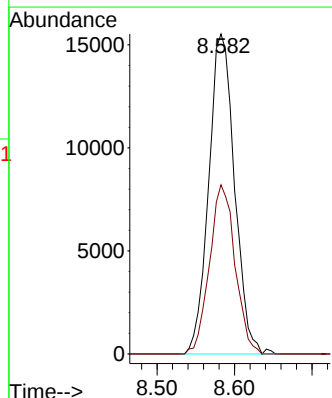
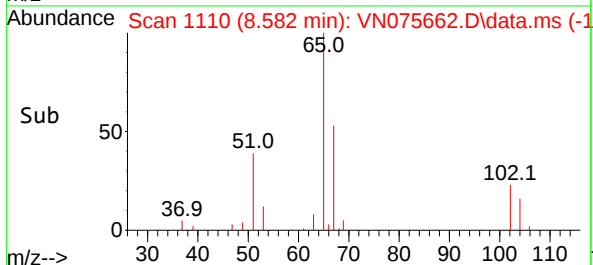
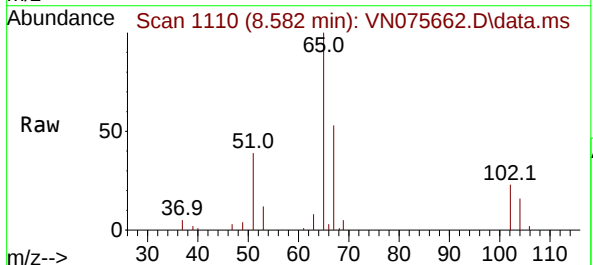


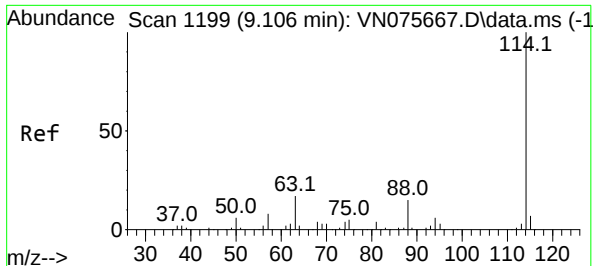
Tgt Ion: 56 Resp: 2664
Ion Ratio Lower Upper
56 100
69 158.6 26.2 39.2#
84 190.7 82.8 124.2#



#33
1,2-Dichloroethane-d4
Concen: 22.024 ug/l
RT: 8.582 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

Tgt Ion: 65 Resp: 35918
Ion Ratio Lower Upper
65 100
67 52.2 0.0 104.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075662.D

Acq: 09 Dec 2022 11:46

Instrument :

MSVOA_N

ClientSampleId :

IBLK

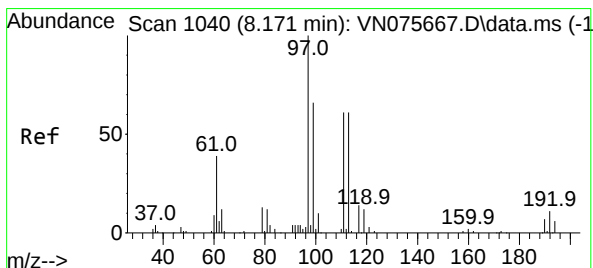
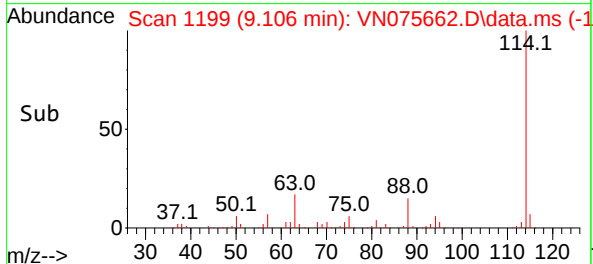
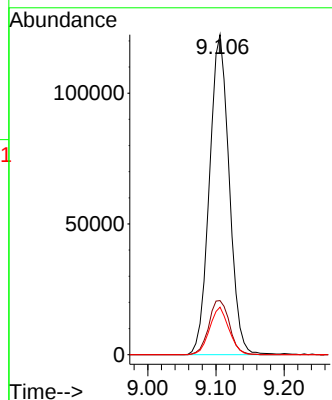
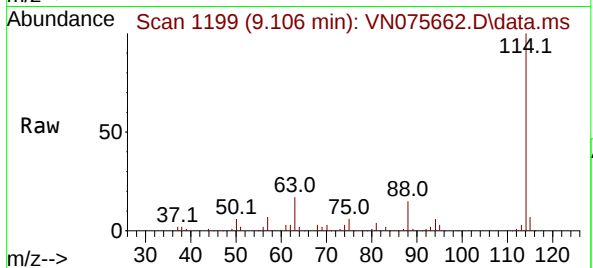
Tgt Ion:114 Resp: 246895

Ion Ratio Lower Upper

114 100

63 16.9 0.0 34.4

88 14.9 0.0 29.2



#35

Dibromofluoromethane

Concen: 30.572 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN075662.D

Acq: 09 Dec 2022 11:46

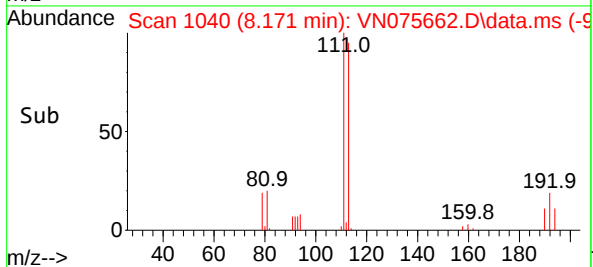
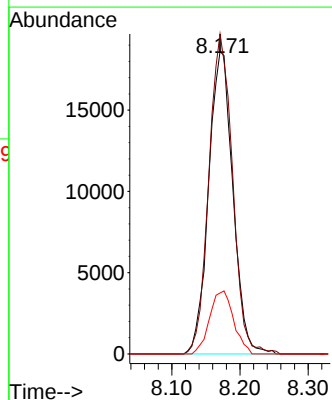
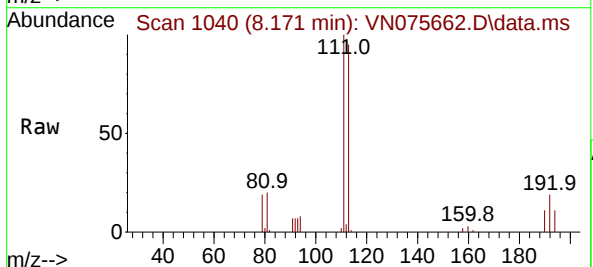
Tgt Ion:113 Resp: 46052

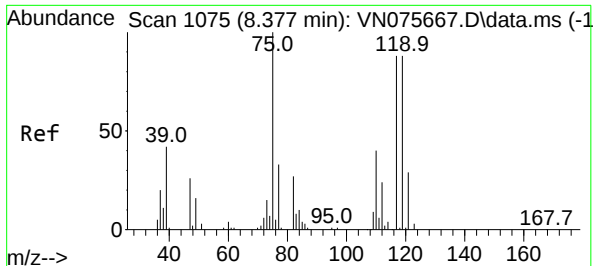
Ion Ratio Lower Upper

113 100

111 103.2 81.0 121.6

192 20.6 16.2 24.2

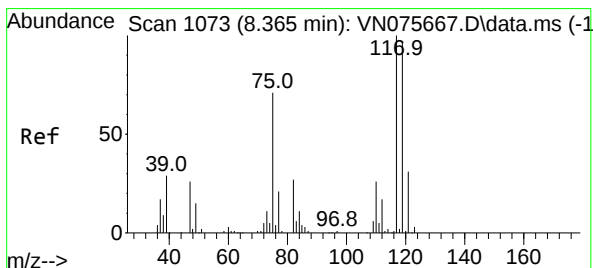
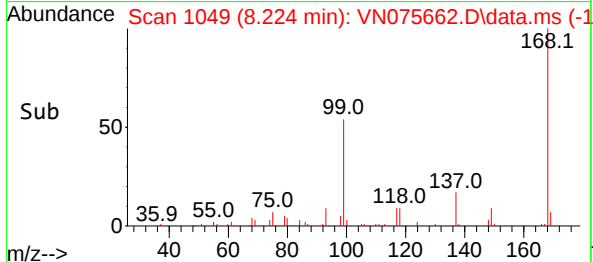
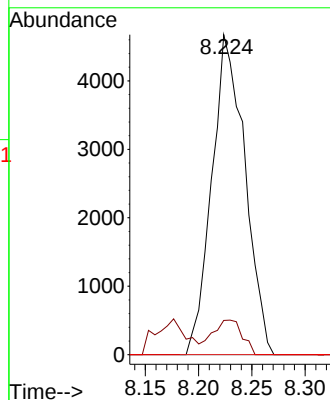
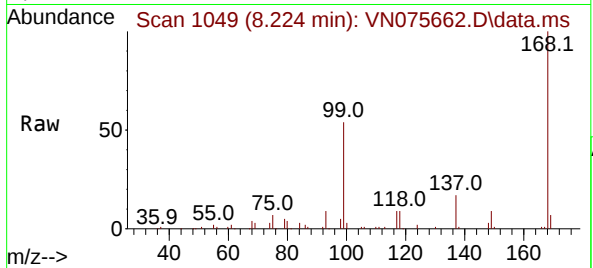




#36
1,1-Dichloropropene
Concen: 5.053 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.153 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

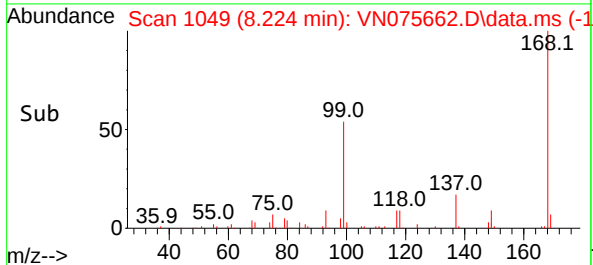
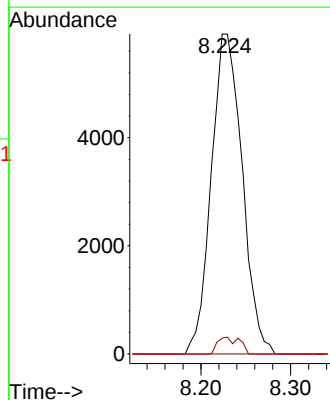
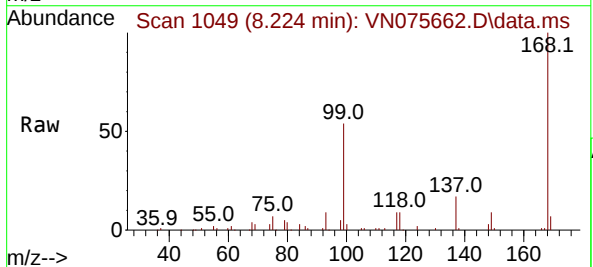
Instrument :
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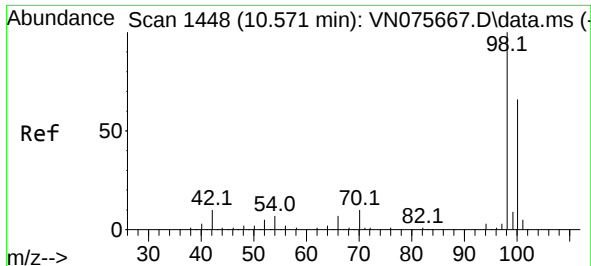
Tgt Ion: 75 Resp: 10107
Ion Ratio Lower Upper
75 100
110 9.8 18.9 56.9#
77 0.0 25.4 38.2#



#38
Carbon Tetrachloride
Concen: 6.130 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.141 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

Tgt Ion: 117 Resp: 14148
Ion Ratio Lower Upper
117 100
119 5.0 77.2 115.8#
121 0.0 24.6 37.0#

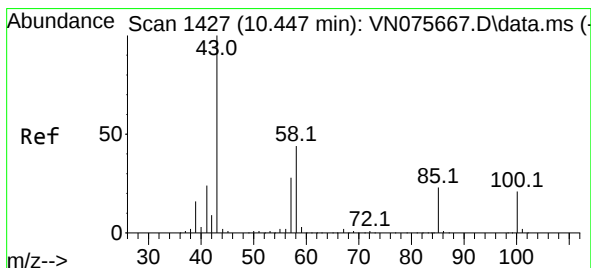
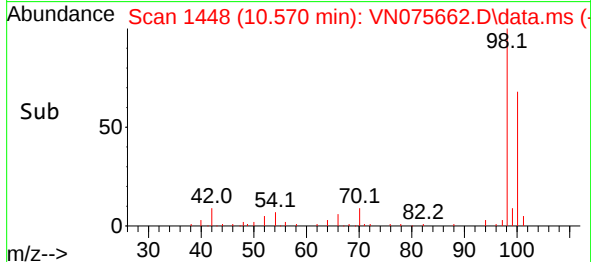
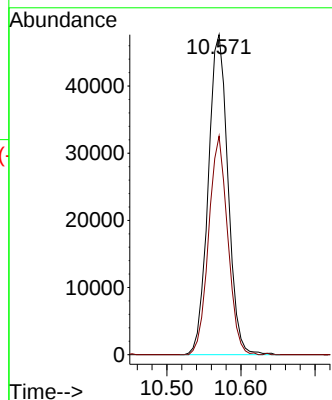
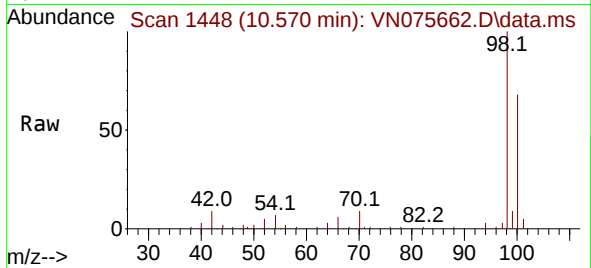




#50
Toluene-d8
Concen: 15.588 ug/l
RT: 10.570 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

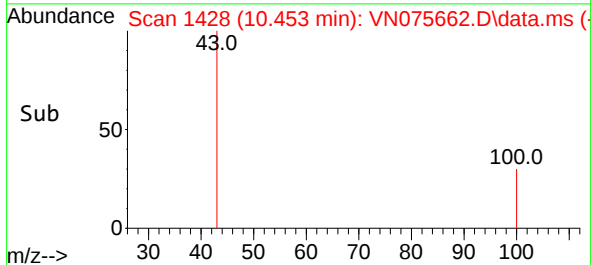
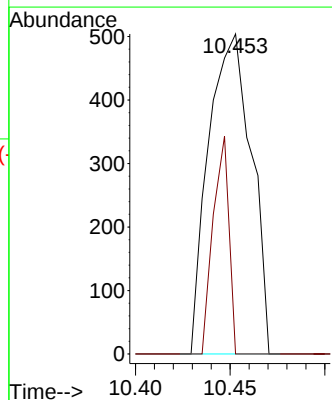
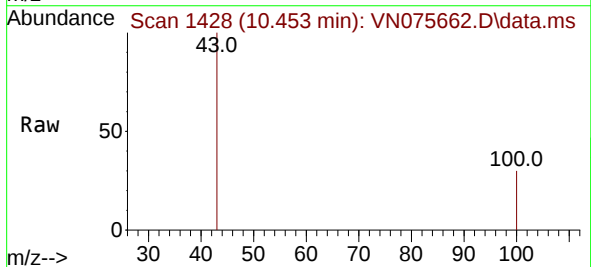
Instrument :
MSVOA_N
ClientSampleId :
IBLK

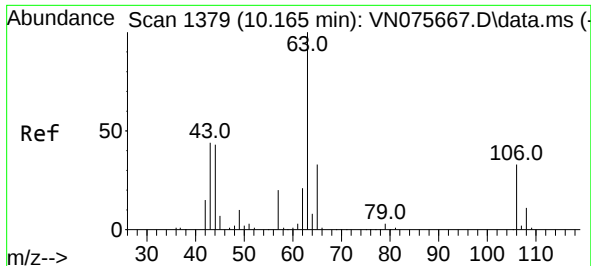
Tgt Ion: 98 Resp: 88181
Ion Ratio Lower Upper
98 100
100 65.8 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.478 ug/l
RT: 10.453 min Scan# 1428
Delta R.T. 0.006 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

Tgt Ion: 43 Resp: 790
Ion Ratio Lower Upper
43 100
58 25.2 35.0 52.6#

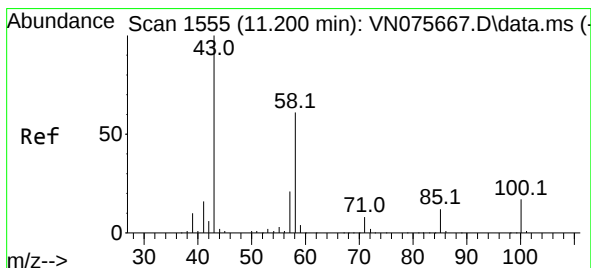
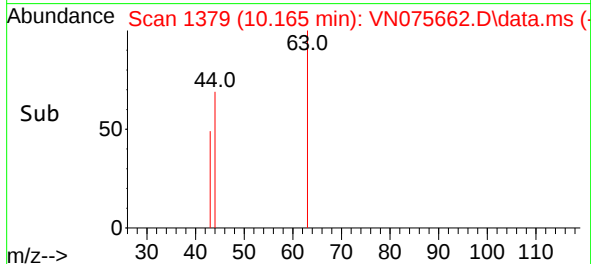
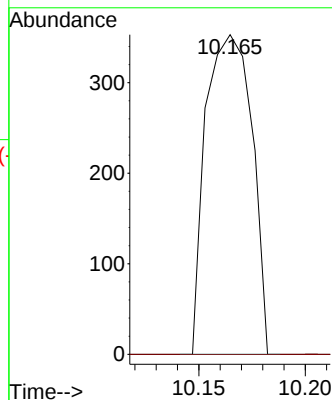
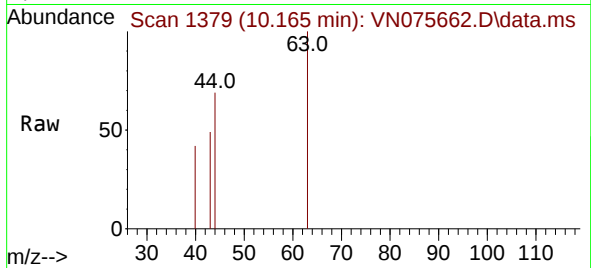




#58
2-Chloroethyl Vinyl ether
Concen: 0.835 ug/l
RT: 10.165 min Scan# 1379
Delta R.T. -0.000 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

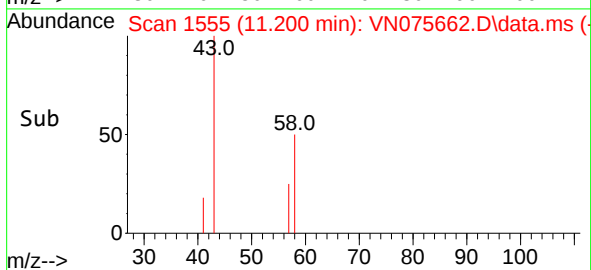
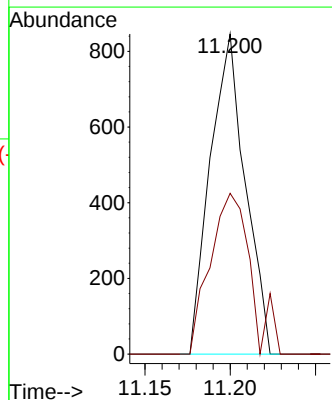
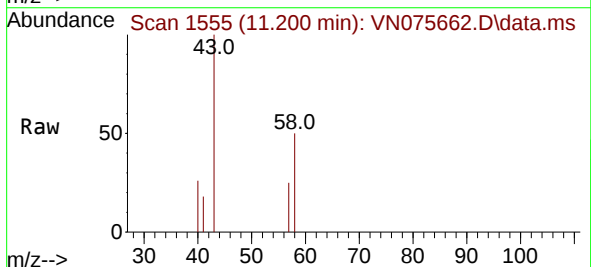
Instrument :
MSVOA_N
ClientSampleId :
IBLK

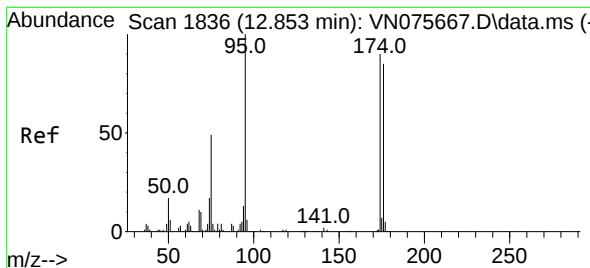
Tgt Ion: 63 Resp: 533
Ion Ratio Lower Upper
63 100
106 0.0 26.6 40.0#



#59
2-Hexanone
Concen: 1.006 ug/l
RT: 11.200 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

Tgt Ion: 43 Resp: 1208
Ion Ratio Lower Upper
43 100
58 57.9 30.9 92.5

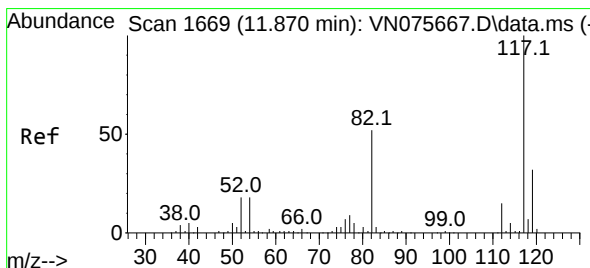
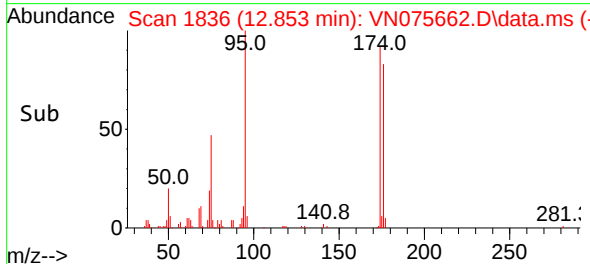
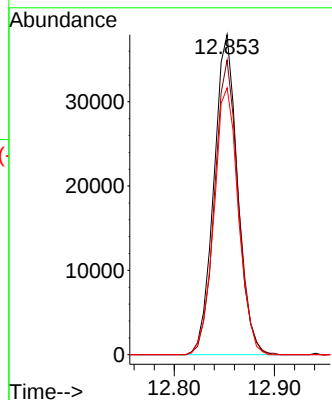
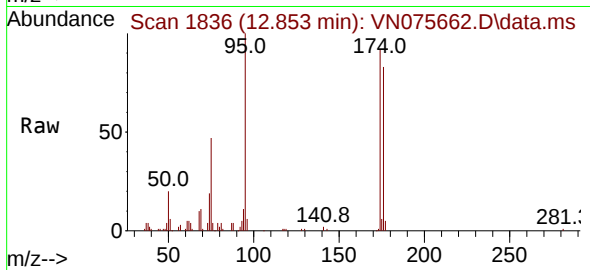




#62
4-Bromofluorobenzene
Concen: 32.188 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

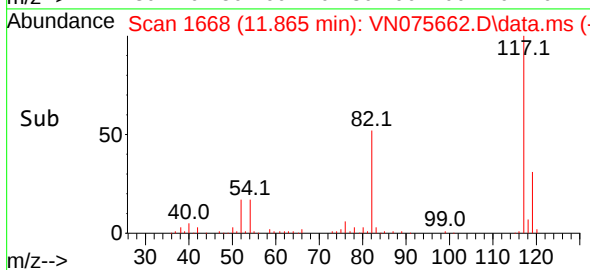
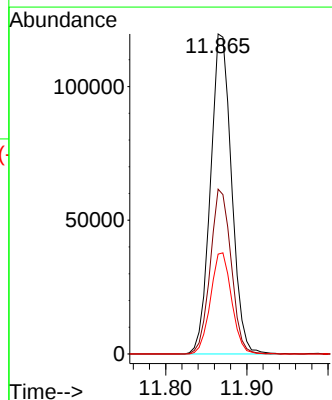
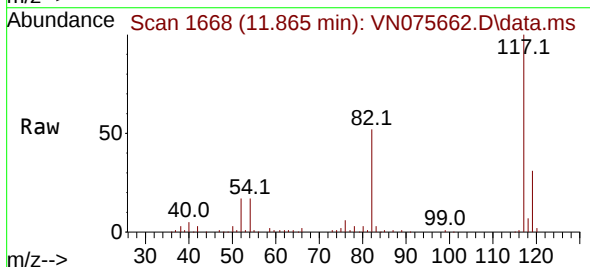
Instrument :
MSVOA_N
ClientSampleId :
IBLK

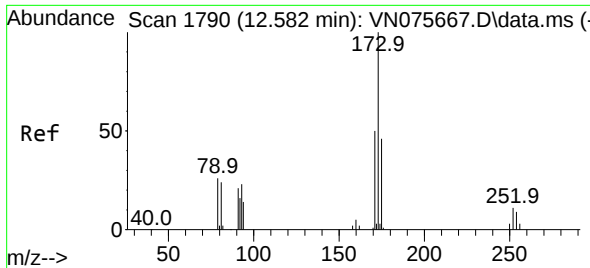
Tgt Ion: 95 Resp: 62257
Ion Ratio Lower Upper
95 100
174 92.1 0.0 178.6
176 85.8 0.0 170.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. -0.006 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

Tgt Ion: 117 Resp: 215602
Ion Ratio Lower Upper
117 100
82 51.5 41.8 62.8
119 31.2 25.8 38.6

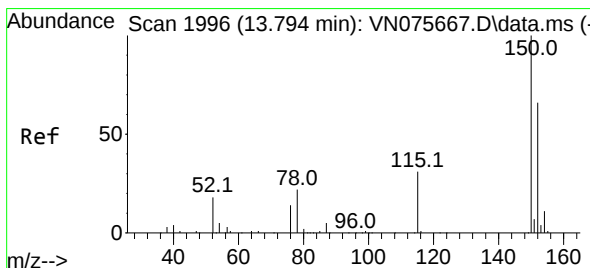
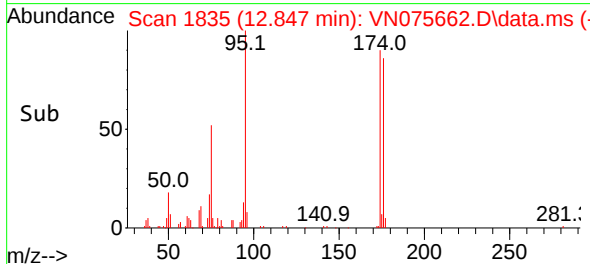
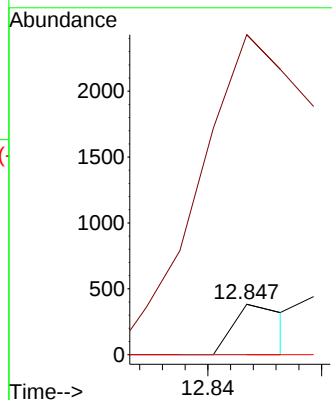
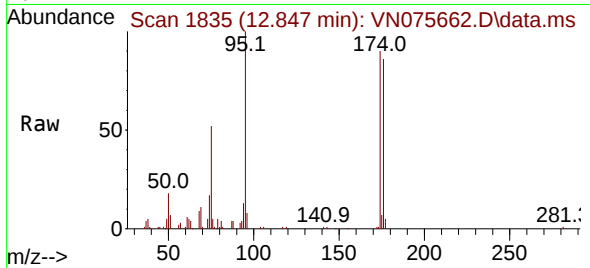




#71
Bromoform
Concen: 0.202 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

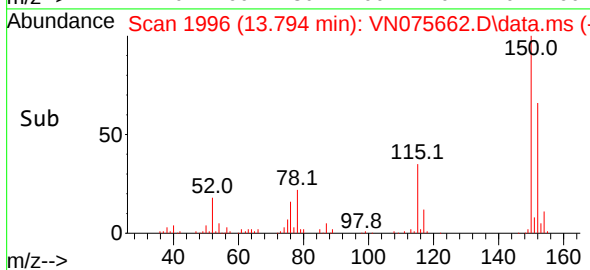
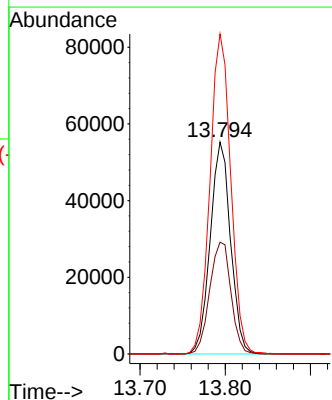
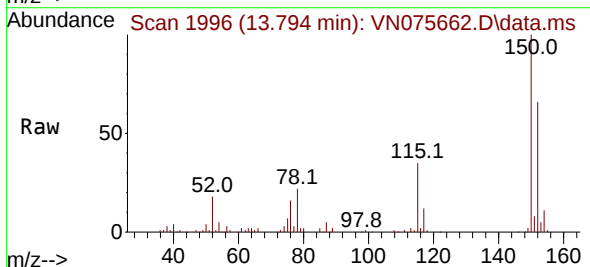
Instrument :
MSVOA_N
ClientSampleId :
IBLK

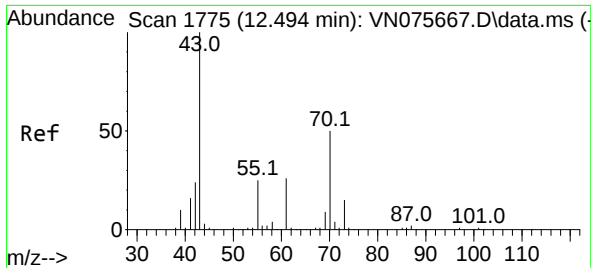
Tgt Ion:173 Resp: 247
Ion Ratio Lower Upper
173 100
175 1336.0 23.8 71.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

Tgt Ion:152 Resp: 91718
Ion Ratio Lower Upper
152 100
115 55.3 28.4 85.2
150 154.2 0.0 347.6

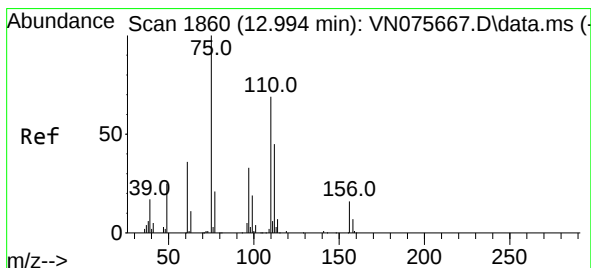
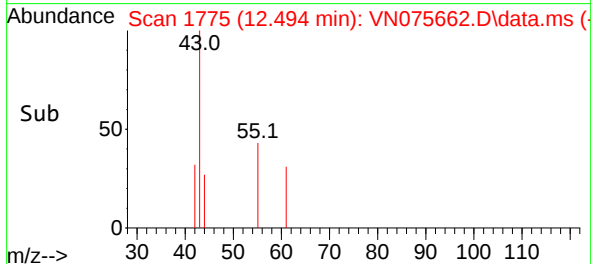
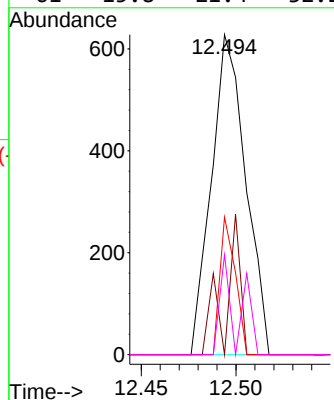
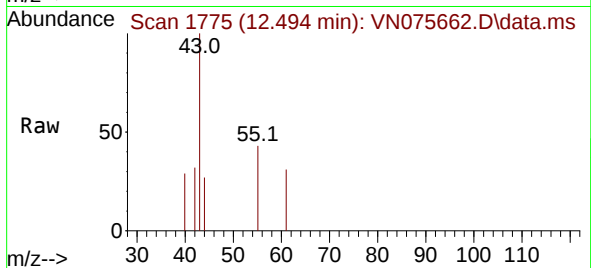




#74
N-amy1 acetate
Concen: 0.413 ug/l
RT: 12.494 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

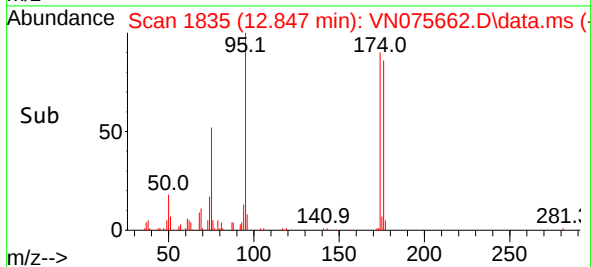
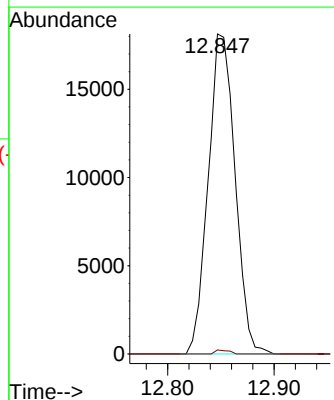
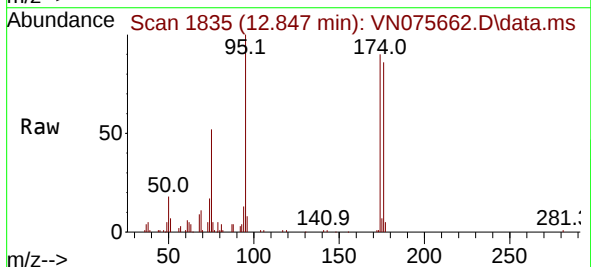
Instrument :
MSVOA_N
ClientSampleId :
IBLK

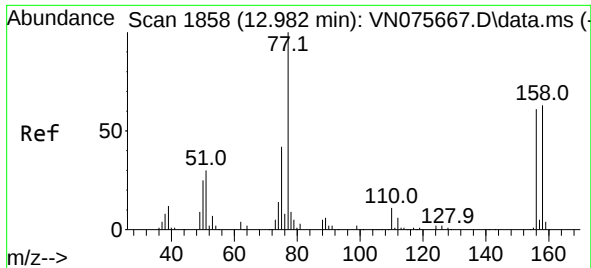
Tgt Ion: 43	Resp: 791
Ion Ratio	Lower Upper
43 100	
70 19.3	41.0 61.6#
55 19.2	20.7 31.1#
61 15.8	21.4 32.2#



#76
1,2,3-Trichloropropane
Concen: 17.246 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.147 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

Tgt Ion: 75	Resp:	31766	
Ion Ratio	Lower	Upper	
75 100			
77 0.6	81.8	245.4#	

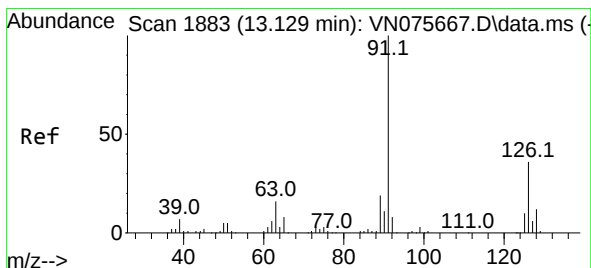
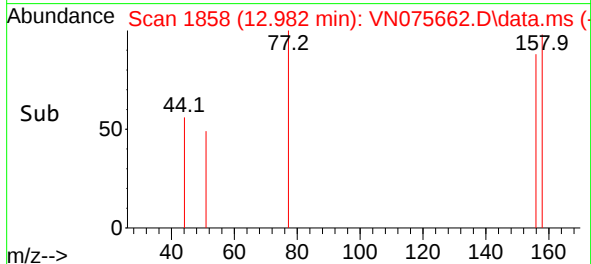
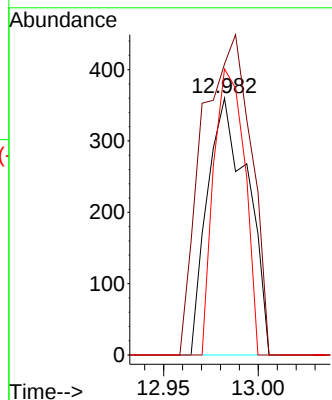
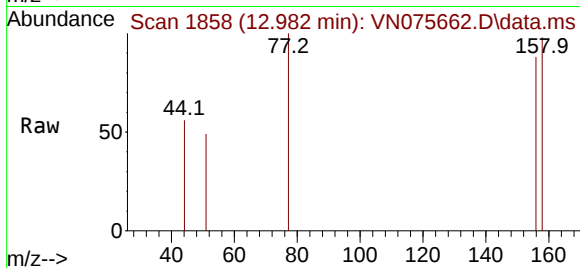




#77
Bromobenzene
Concen: 0.323 ug/l
RT: 12.982 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

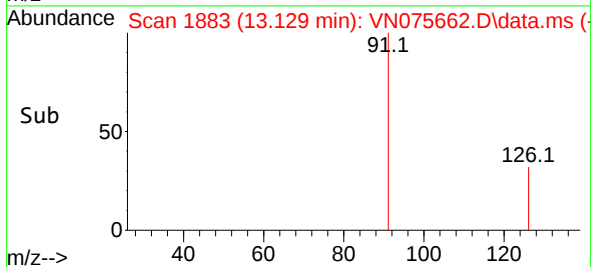
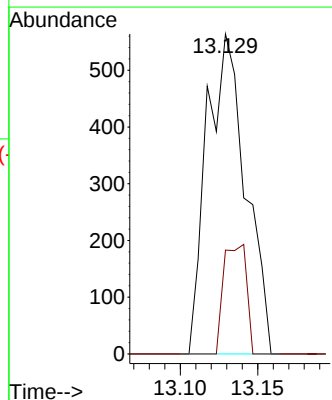
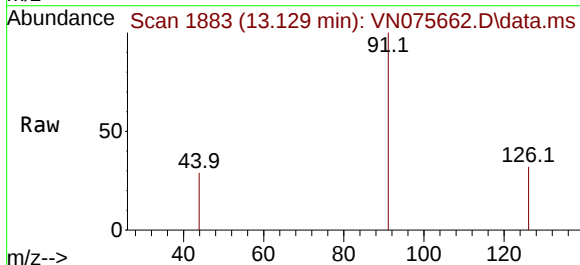
Instrument :
MSVOA_N
ClientSampleId :
IBLK

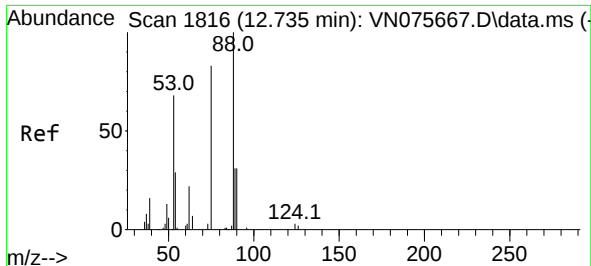
Tgt Ion:156 Resp: 535
Ion Ratio Lower Upper
156 100
77 150.8 90.8 272.5
158 85.0 49.3 147.8



#79
2-Chlorotoluene
Concen: 0.217 ug/l
RT: 13.129 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

Tgt Ion: 91 Resp: 981
Ion Ratio Lower Upper
91 100
126 20.1 17.8 53.4

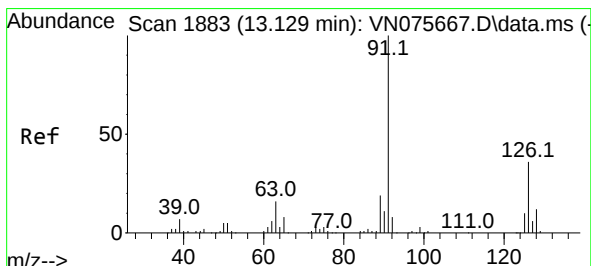
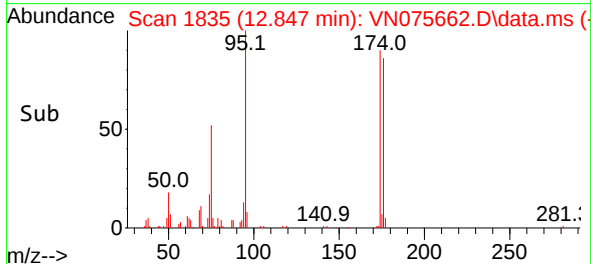
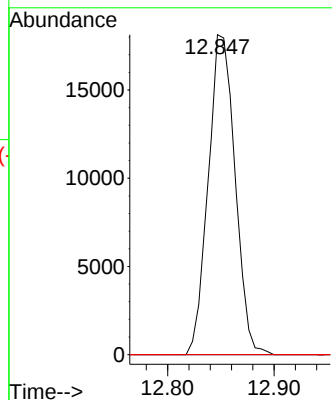
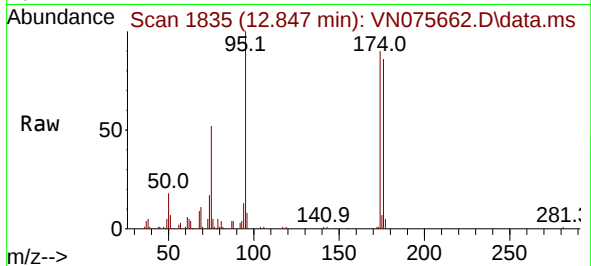




#81
trans-1,4-Dichloro-2-butene
Concen: 55.857 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.112 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

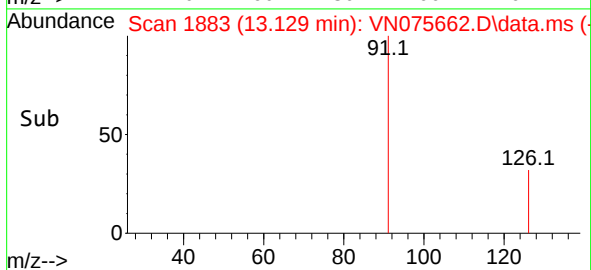
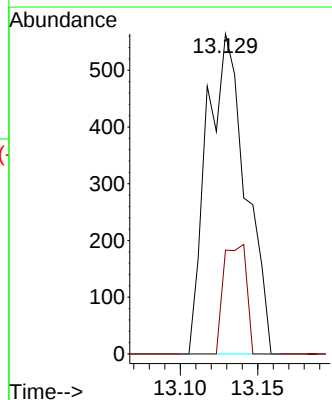
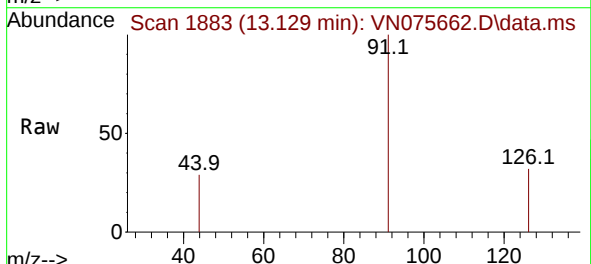
Instrument :
MSVOA_N
ClientSampleId :
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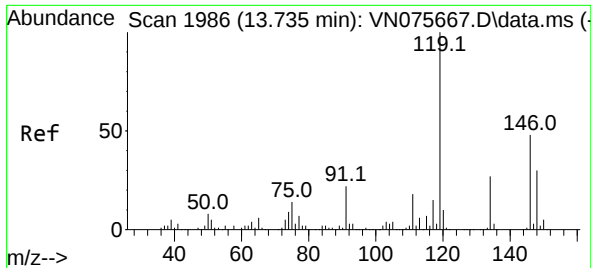
Tgt Ion: 75 Resp: 31766
Ion Ratio Lower Upper
75 100
53 0.0 72.4 108.6#
89 0.0 36.6 55.0#



#82
4-Chlorotoluene
Concen: 0.217 ug/l
RT: 13.129 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN075662.D
Acq: 09 Dec 2022 11:46

Tgt Ion: 91 Resp: 981
Ion Ratio Lower Upper
91 100
126 20.1 17.8 53.4

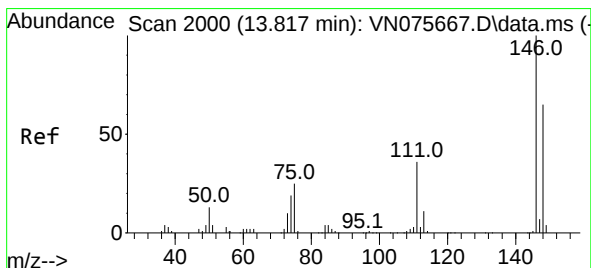
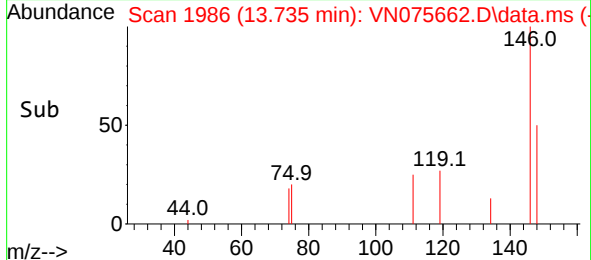
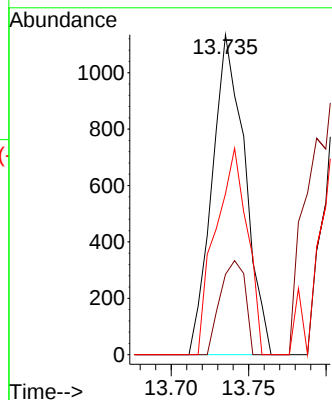
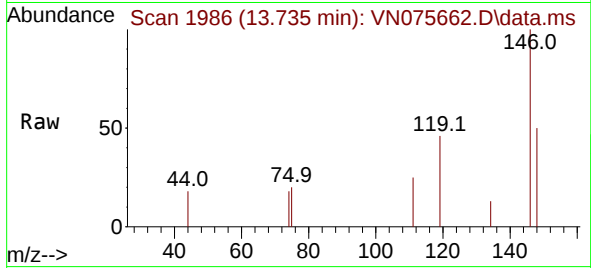




#87
 1,3-Dichlorobenzene
 Concen: 0.539 ug/l
 RT: 13.735 min Scan# 1986
 Delta R.T. -0.000 min
 Lab File: VN075662.D
 Acq: 09 Dec 2022 11:46

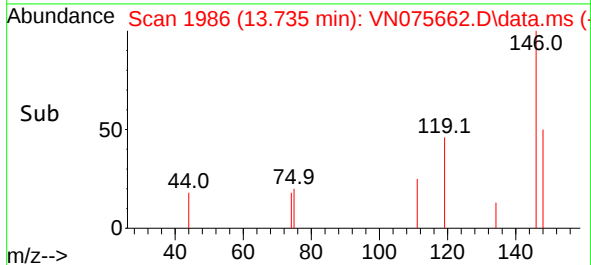
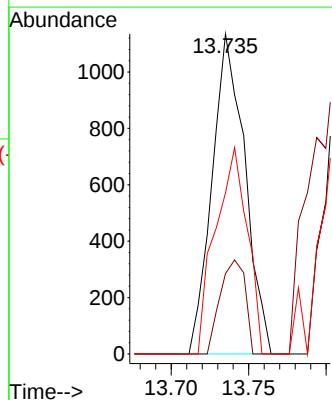
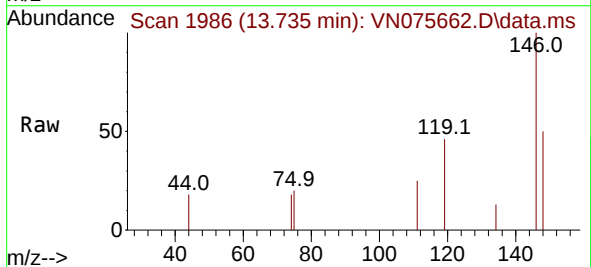
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

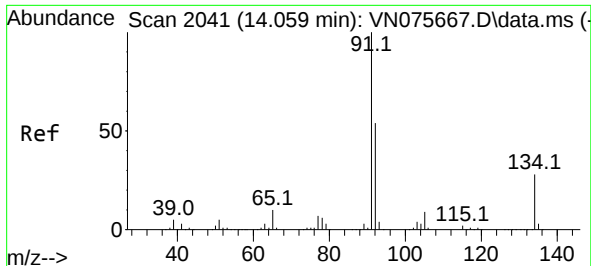
Tgt Ion:146 Resp: 1669
 Ion Ratio Lower Upper
 146 100
 111 22.4 19.8 59.3
 148 62.6 32.1 96.3



#88
 1,4-Dichlorobenzene
 Concen: 0.530 ug/l
 RT: 13.735 min Scan# 1986
 Delta R.T. -0.082 min
 Lab File: VN075662.D
 Acq: 09 Dec 2022 11:46

Tgt Ion:146 Resp: 1669
 Ion Ratio Lower Upper
 146 100
 111 22.4 19.1 57.1
 148 62.6 32.1 96.3





#89

n-Butylbenzene

Concen: 0.418 ug/l

RT: 14.064 min Scan# 2042

Delta R.T. 0.006 min

Lab File: VN075662.D

Acq: 09 Dec 2022 11:46

Instrument :

MSVOA_N

ClientSampleId :

IBLK

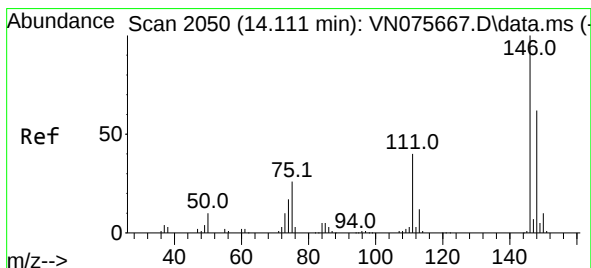
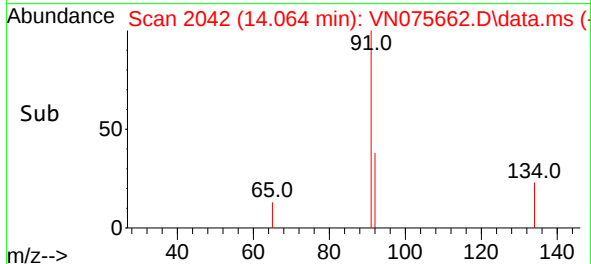
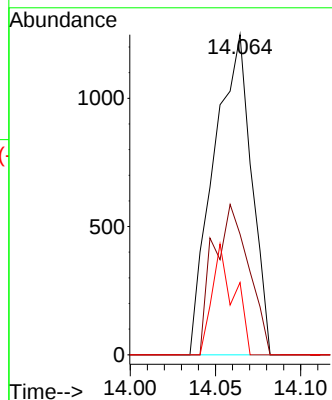
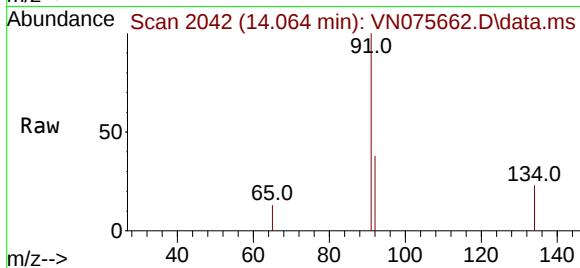
Tgt Ion: 91 Resp: 1926

Ion Ratio Lower Upper

91 100

92 43.8 26.7 80.1

134 20.1 13.9 41.7



#91

1,2-Dichlorobenzene

Concen: 0.606 ug/l

RT: 14.111 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VN075662.D

Acq: 09 Dec 2022 11:46

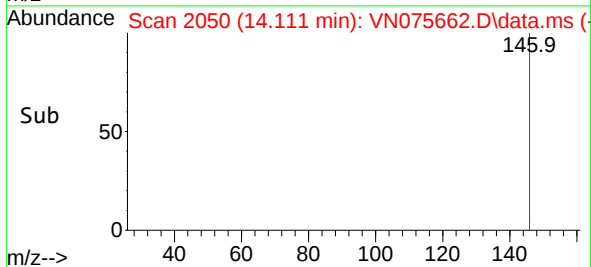
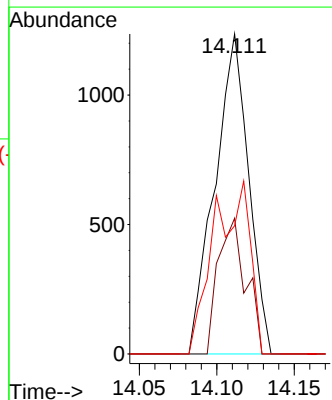
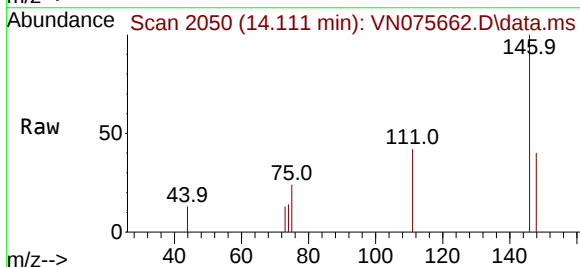
Tgt Ion:146 Resp: 1867

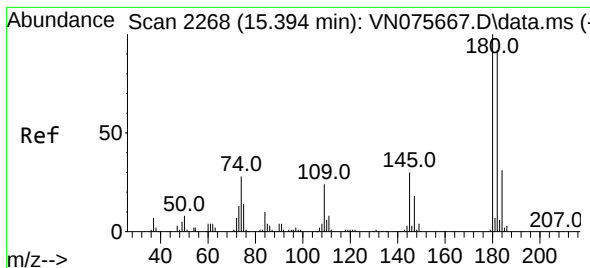
Ion Ratio Lower Upper

146 100

111 34.8 20.1 60.3

148 57.6 31.9 95.5





#93

1,2,4-Trichlorobenzene

Concen: 1.579 ug/l

RT: 15.394 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN075662.D

Acq: 09 Dec 2022 11:46

Instrument :

MSVOA_N

ClientSampleId :

IBLK

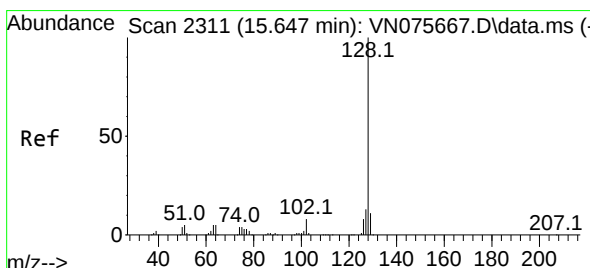
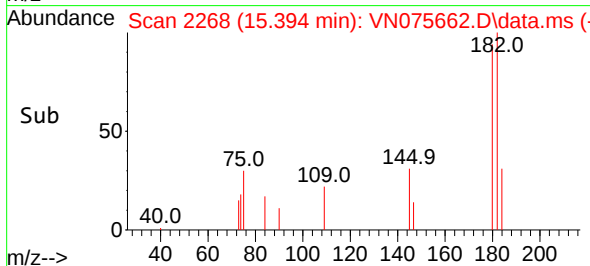
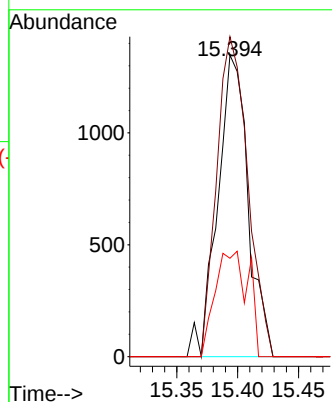
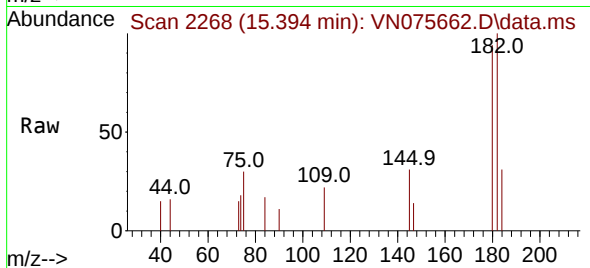
Tgt Ion:180 Resp: 2337

Ion Ratio Lower Upper

180 100

182 108.4 47.1 141.3

145 38.1 15.2 45.5



#95

Naphthalene

Concen: 2.841 ug/l

RT: 15.647 min Scan# 2311

Delta R.T. -0.000 min

Lab File: VN075662.D

Acq: 09 Dec 2022 11:46

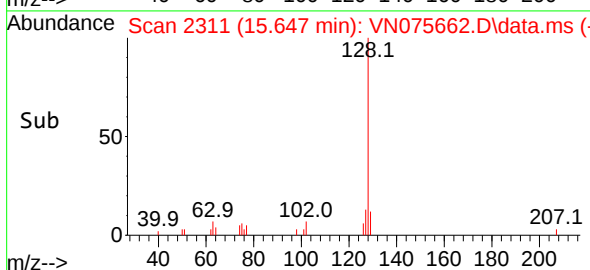
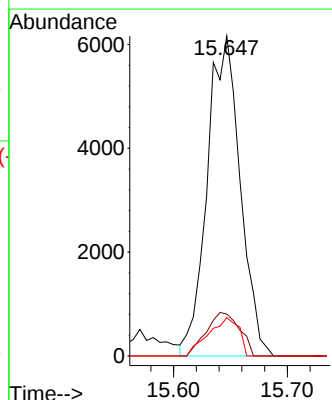
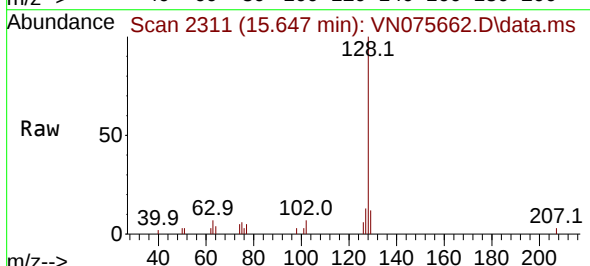
Tgt Ion:128 Resp: 12424

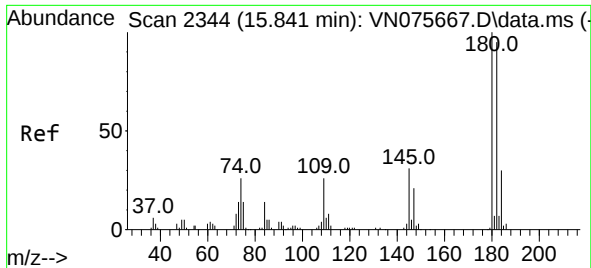
Ion Ratio Lower Upper

128 100

127 13.7 10.2 15.4

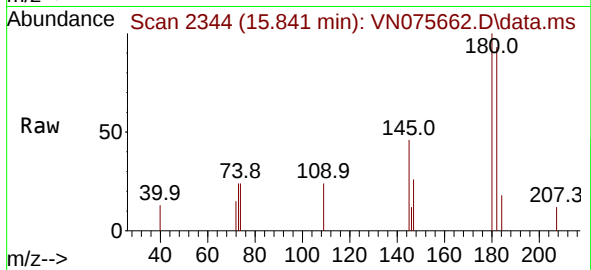
129 11.0 8.4 12.6





#96
 1,2,3-Trichlorobenzene
 Concen: 1.972 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN075662.D
 Acq: 09 Dec 2022 11:46

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK



Tgt Ion:	180	Resp:	2867
Ion	Ratio	Lower	Upper
180	100		
182	97.6	46.8	140.4
145	27.5	15.6	46.8

