

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122822\
 Data File : VN075990.D
 Acq On : 28 Dec 2022 11:11
 Operator : JC\MD
 Sample : VN1228MBL01
 Misc : 5.0g/10mL/100uL/5.0mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1228MBL01

Quant Time: Dec 29 04:47:00 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)

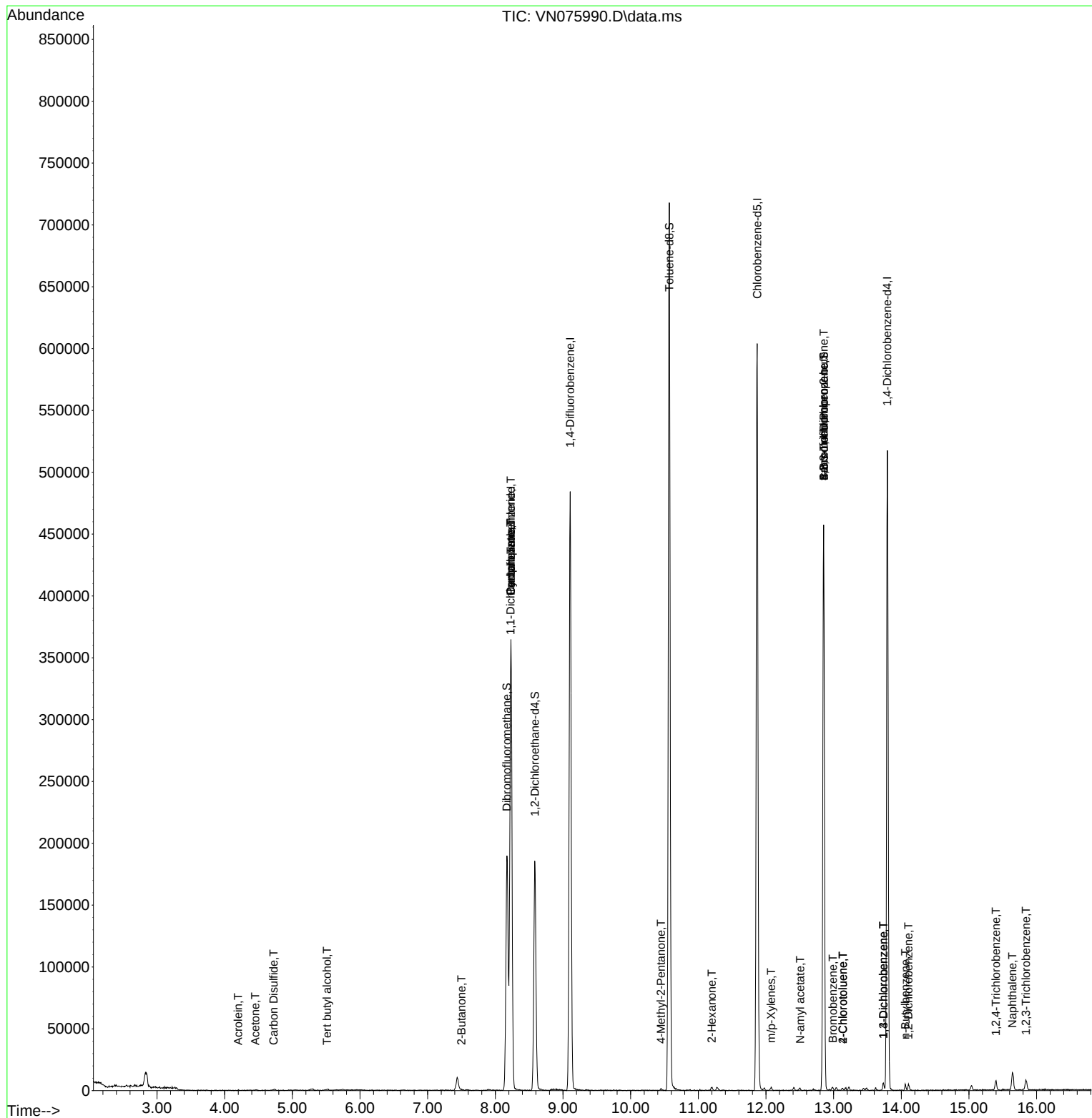
Internal Standards						
1) Pentafluorobenzene	8.230	168	285148	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	444229	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	373788	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	145972	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	147281	47.477	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.960%		
35) Dibromofluoromethane	8.171	113	134296	48.816	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.640%		
50) Toluene-d8	10.571	98	509607	49.544	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.080%		
62) 4-Bromofluorobenzene	12.853	95	150106	44.061	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	88.120%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.512	59	388	0.884	ug/l #	72
13) Acrolein	4.201	56	376	0.699	ug/l #	37
16) Acetone	4.454	43	355	0.332	ug/l #	39
17) Carbon Disulfide	4.724	76	1588	0.260	ug/l #	76
20) Methylene Chloride	5.289	84	924	Below Cal	#	64
25) 2-Butanone	7.500	43	405	0.270	ug/l #	40
31) Cyclohexane	8.230	56	5248	1.181	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	19928	5.453	ug/l #	49
38) Carbon Tetrachloride	8.230	117	28161	6.885	ug/l #	16
51) 4-Methyl-2-Pentanone	10.447	43	1075	0.367	ug/l #	76
59) 2-Hexanone	11.200	43	1994	0.934	ug/l	94
68) m/p-Xylenes	12.077	106	1174	0.229	ug/l	86
71) Bromoform	12.853	173	1288	0.623	ug/l #	1
74) N-amyl acetate	12.506	43	938	0.303	ug/l #	85
76) 1,2,3-Trichloropropane	12.853	75	76809	26.104	ug/l #	1
77) Bromobenzene	12.988	156	800	0.300	ug/l	91
79) 2-Chlorotoluene	13.135	91	1461	0.201	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.853	75	76809	93.961	ug/l #	12
82) 4-Chlorotoluene	13.135	91	1461	0.201	ug/l	94
87) 1,3-Dichlorobenzene	13.735	146	2248	0.456	ug/l	94
88) 1,4-Dichlorobenzene	13.735	146	2248	0.446	ug/l	96
89) n-Butylbenzene	14.059	91	3223	0.445	ug/l	94
91) 1,2-Dichlorobenzene	14.106	146	2515	0.518	ug/l	96
93) 1,2,4-Trichlorobenzene	15.400	180	3203	1.332	ug/l	98
95) Naphthalene	15.641	128	16213	4.129	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	4214	1.875	ug/l	92

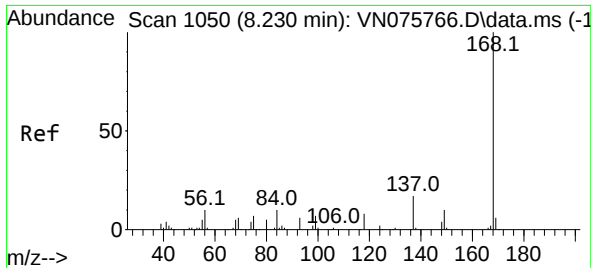
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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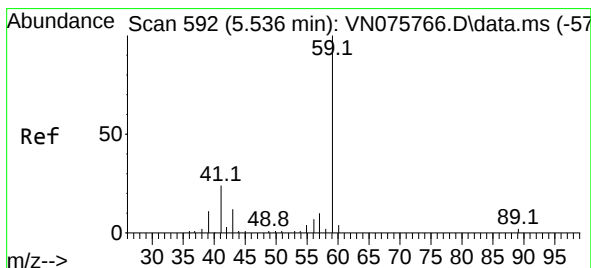
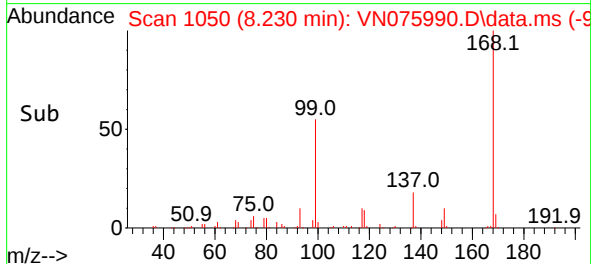
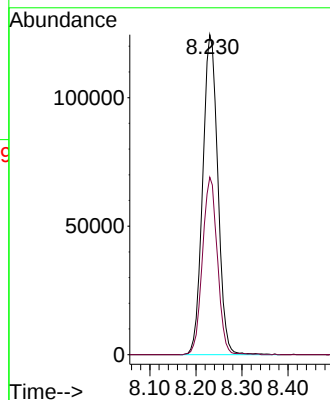
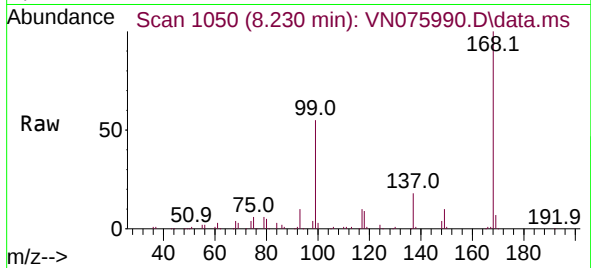




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

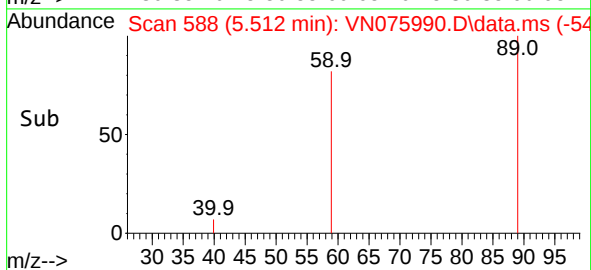
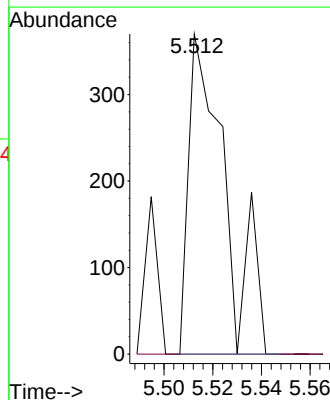
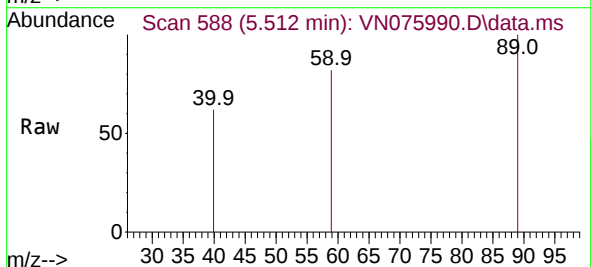
Instrument :
MSVOA_N
ClientSampleId :
VN1228MBL01

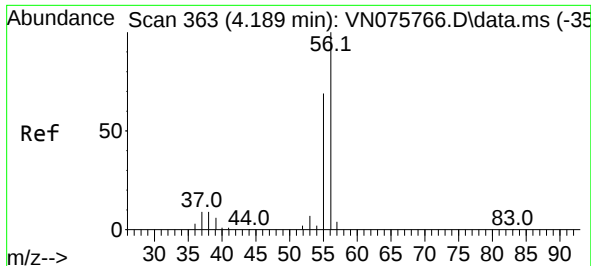
Tgt Ion:168 Resp: 285148
Ion Ratio Lower Upper
168 100
99 55.5 44.2 66.4



#11
Tert butyl alcohol
Concen: 0.884 ug/l
RT: 5.512 min Scan# 588
Delta R.T. -0.023 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Tgt Ion: 59 Resp: 388
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

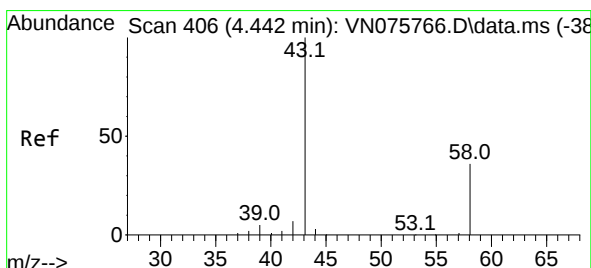
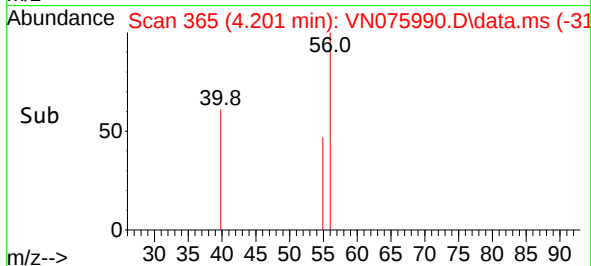
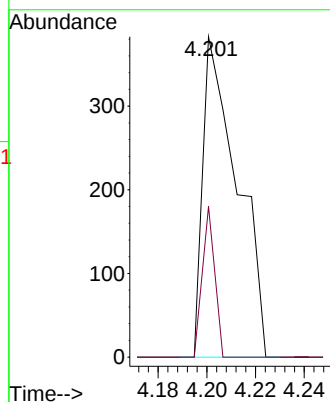
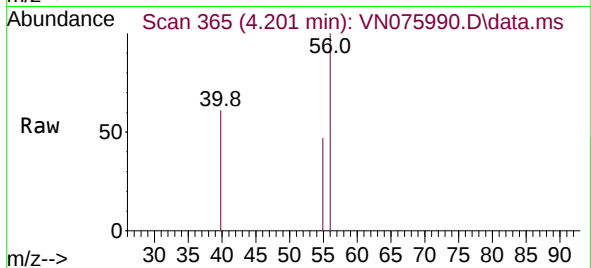




#13
Acrolein
Concen: 0.699 ug/l
RT: 4.201 min Scan# 308
Delta R.T. 0.012 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

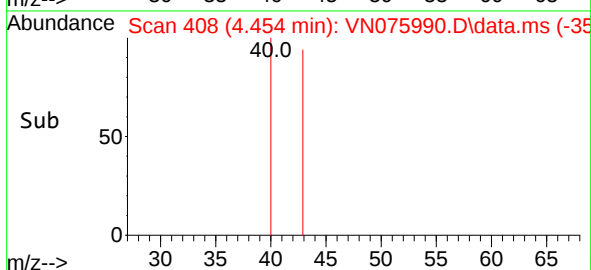
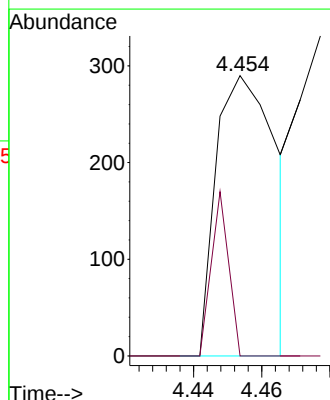
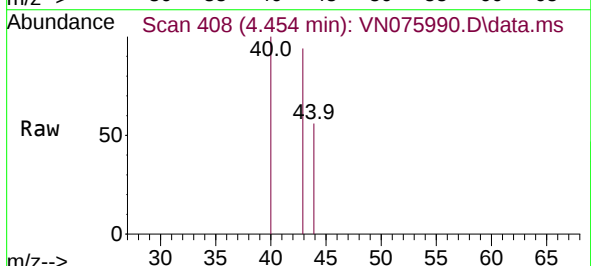
Instrument :
MSVOA_N
ClientSampleId :
VN1228MBL01

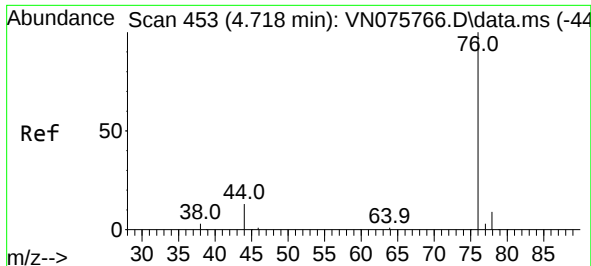
Tgt Ion: 56 Resp: 376
Ion Ratio Lower Upper
56 100
55 17.0 54.8 82.2#



#16
Acetone
Concen: 0.332 ug/l
RT: 4.454 min Scan# 408
Delta R.T. 0.012 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Tgt Ion: 43 Resp: 355
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#

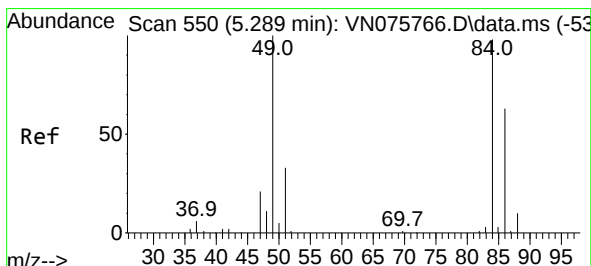
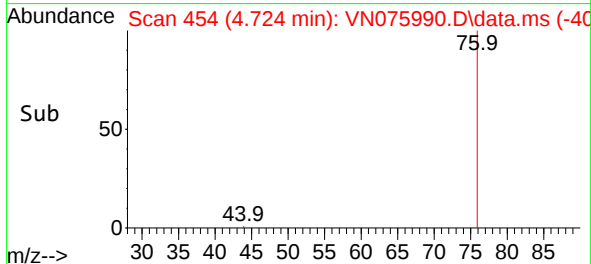
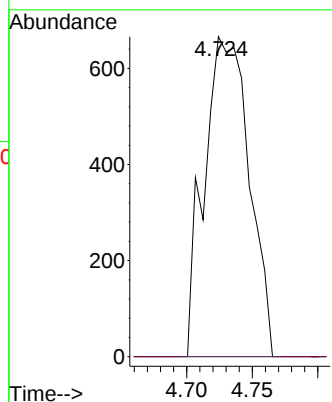
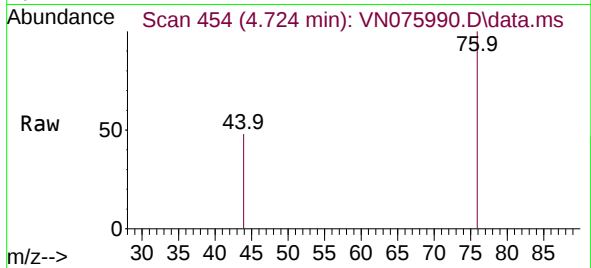




#17
Carbon Disulfide
Concen: 0.260 ug/l
RT: 4.724 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

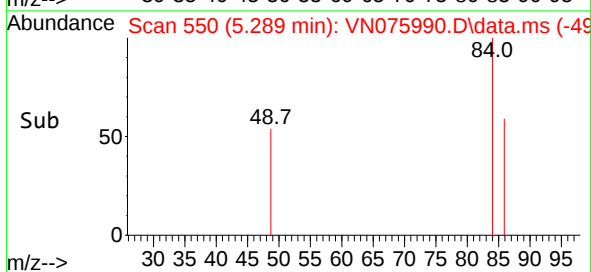
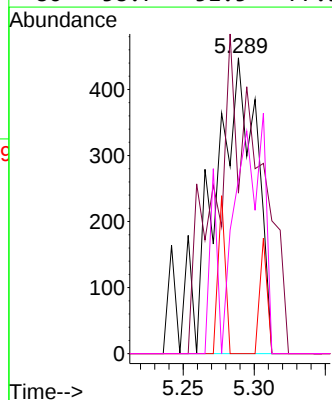
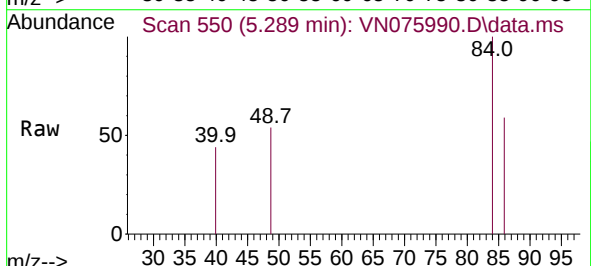
Instrument :
MSVOA_N
ClientSampleId :
VN1228MBL01

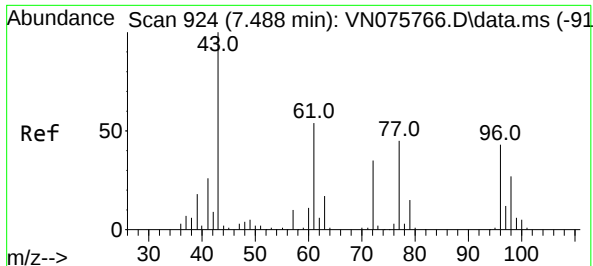
Tgt Ion: 76 Resp: 1588
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 550
Delta R.T. -0.000 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Tgt Ion: 84 Resp: 924
Ion Ratio Lower Upper
84 100
49 54.2 81.8 122.6#
51 0.0 26.7 40.1#
86 58.7 51.5 77.3





#25

2-Butanone

Concen: 0.270 ug/l

RT: 7.500 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN075990.D

Acq: 28 Dec 2022 11:11

Instrument :

MSVOA_N

ClientSampleId :

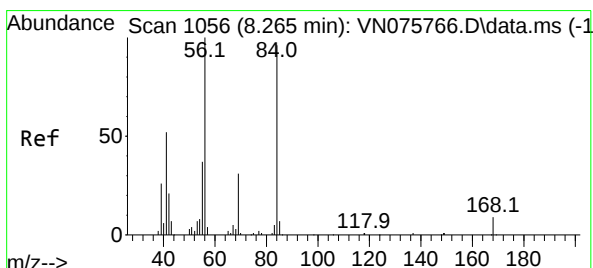
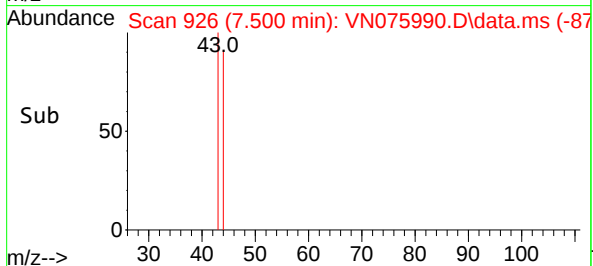
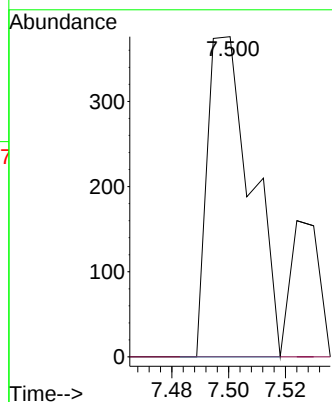
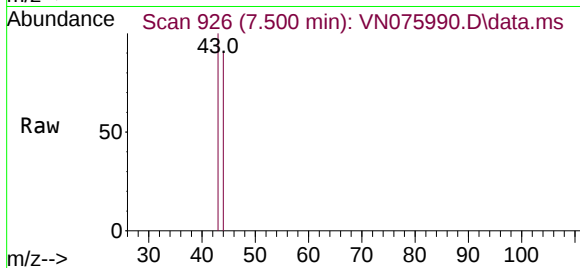
VN1228MBL01

Tgt Ion: 43 Resp: 405

Ion Ratio Lower Upper

43 100

72 0.0 28.0 42.0#



#31

Cyclohexane

Concen: 1.181 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN075990.D

Acq: 28 Dec 2022 11:11

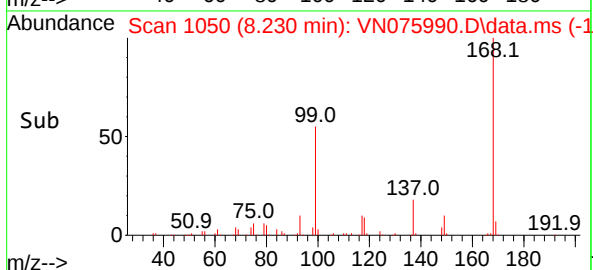
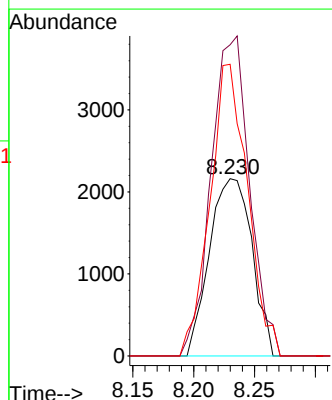
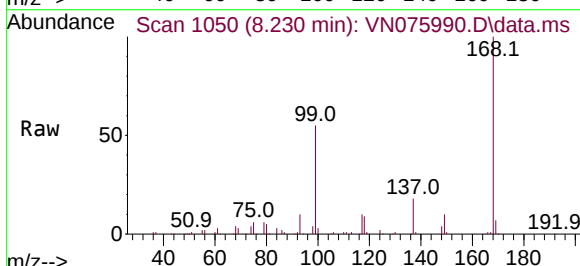
Tgt Ion: 56 Resp: 5248

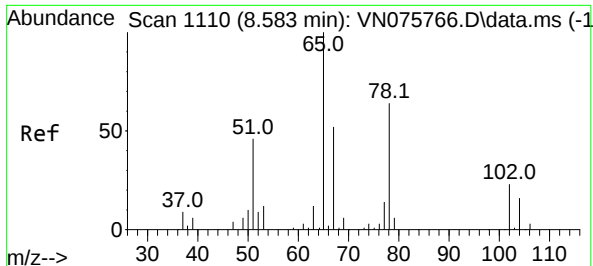
Ion Ratio Lower Upper

56 100

69 175.6 24.7 37.1#

84 164.6 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 47.477 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN075990.D

Acq: 28 Dec 2022 11:11

Instrument :

MSVOA_N

ClientSampleId :

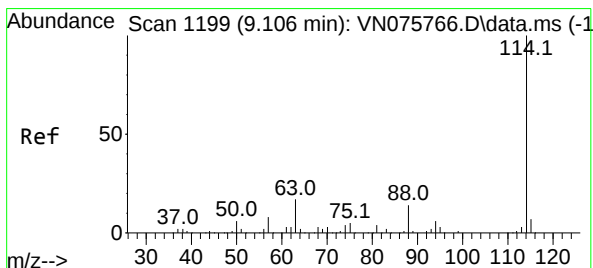
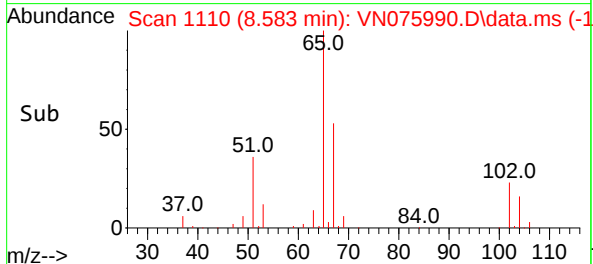
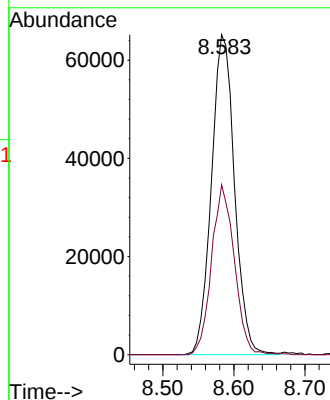
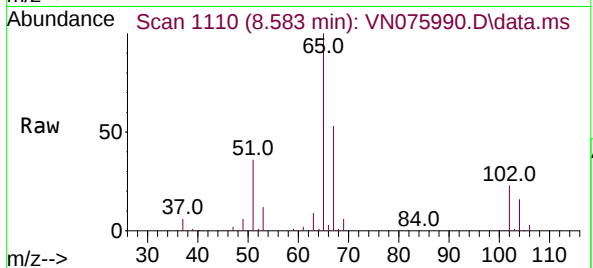
VN1228MBL01

Tgt Ion: 65 Resp: 147281

Ion Ratio Lower Upper

65 100

67 52.2 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: VN075990.D

Acq: 28 Dec 2022 11:11

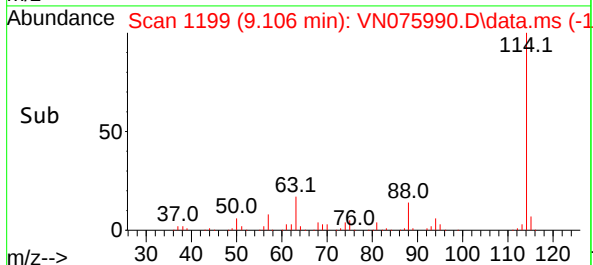
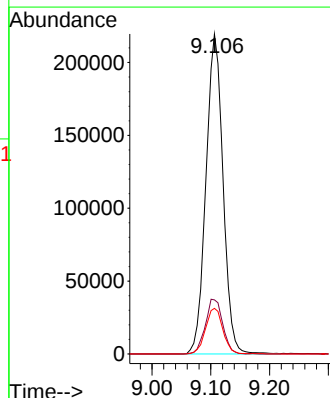
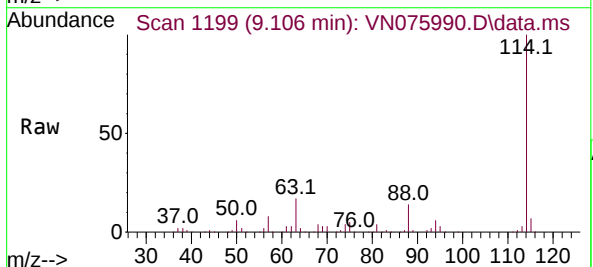
Tgt Ion: 114 Resp: 444229

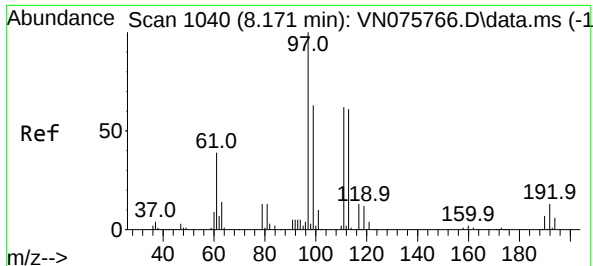
Ion Ratio Lower Upper

114 100

63 16.9 0.0 34.4

88 14.2 0.0 28.8





#35

Dibromofluoromethane

Concen: 48.816 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VN075990.D

Acq: 28 Dec 2022 11:11

Instrument :

MSVOA_N

ClientSampleId :

VN1228MBL01

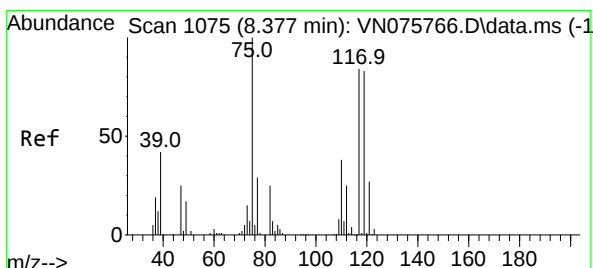
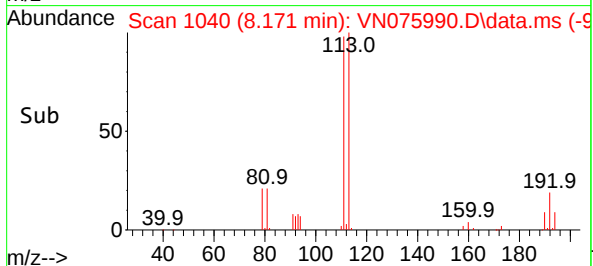
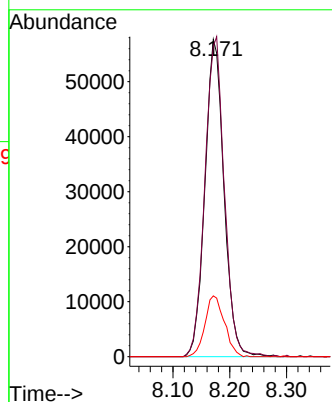
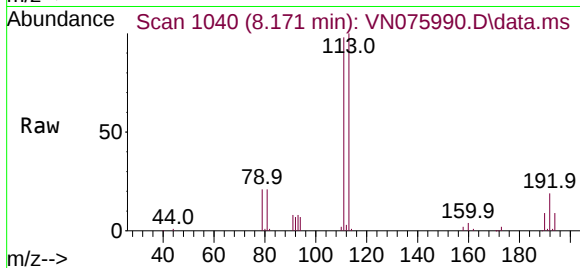
Tgt Ion:113 Resp: 134296

Ion Ratio Lower Upper

113 100

111 102.7 83.4 125.2

192 19.6 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.453 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.153 min

Lab File: VN075990.D

Acq: 28 Dec 2022 11:11

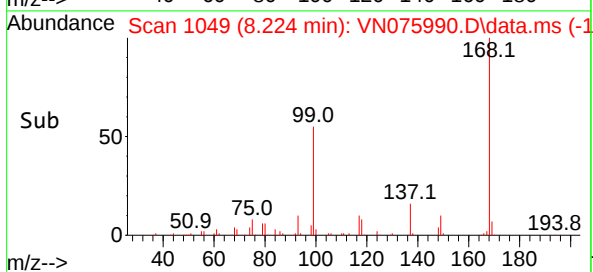
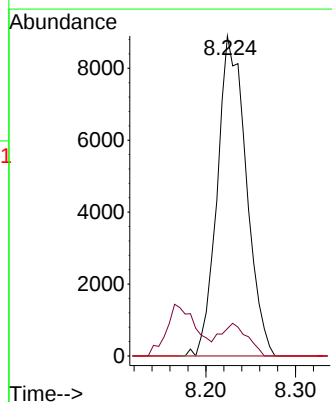
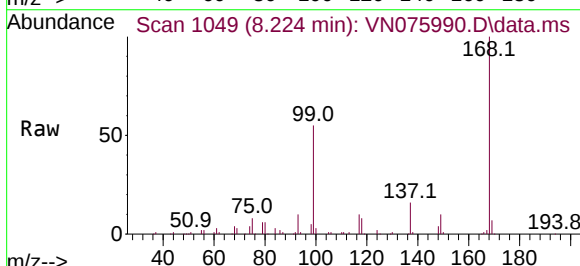
Tgt Ion: 75 Resp: 19928

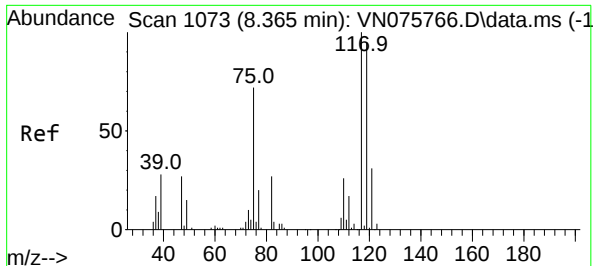
Ion Ratio Lower Upper

75 100

110 9.5 18.8 56.4#

77 0.0 24.1 36.1#

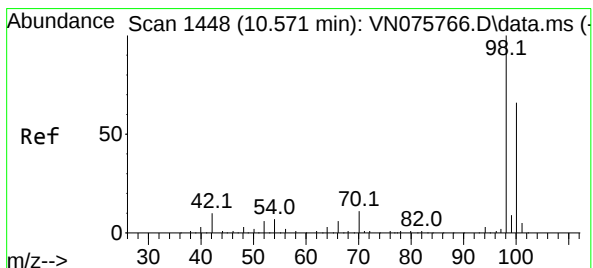
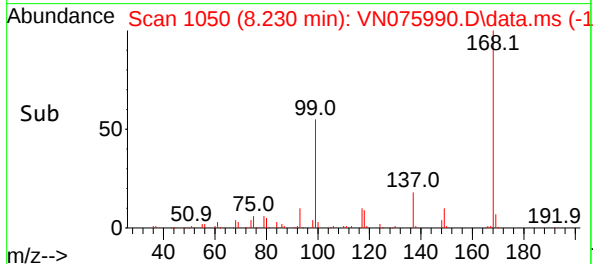
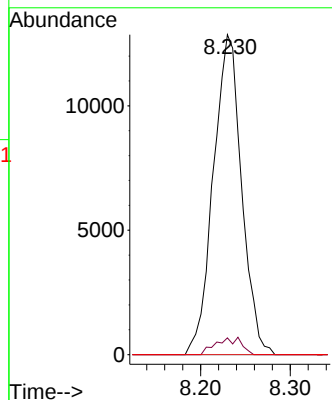
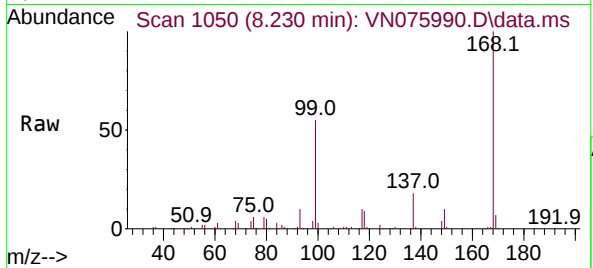




#38
Carbon Tetrachloride
Concen: 6.885 ug/l
RT: 8.230 min Scan# 1073
Delta R.T. -0.135 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

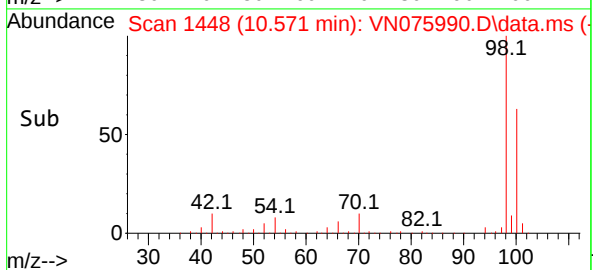
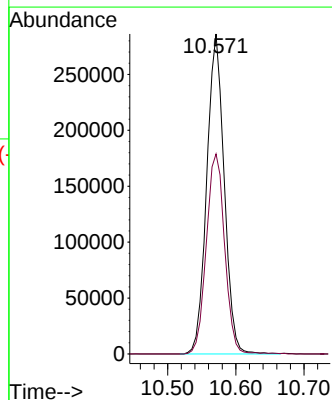
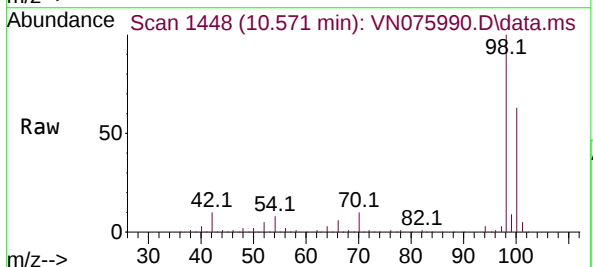
Instrument :
MSVOA_N
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VN1228MBL01

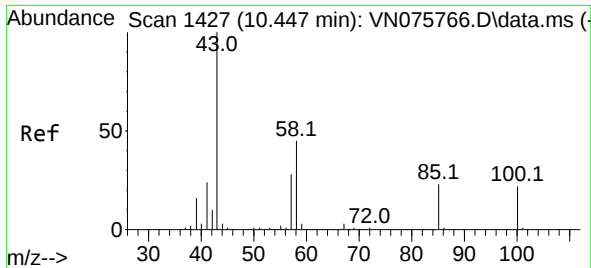
Tgt Ion:117 Resp: 28161
Ion Ratio Lower Upper
117 100
119 5.3 76.1 114.1#
121 0.0 24.5 36.7#



#50
Toluene-d8
Concen: 49.544 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Tgt Ion: 98 Resp: 509607
Ion Ratio Lower Upper
98 100
100 65.7 52.1 78.1

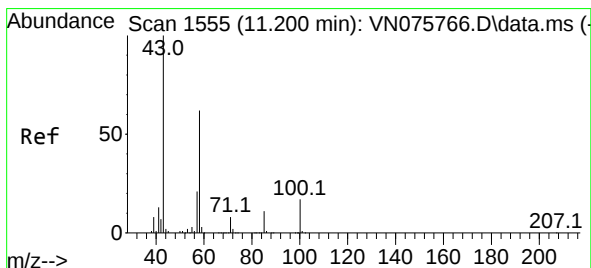
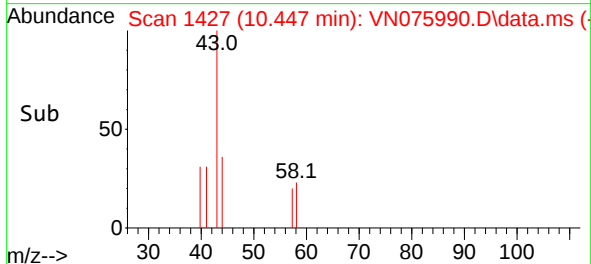
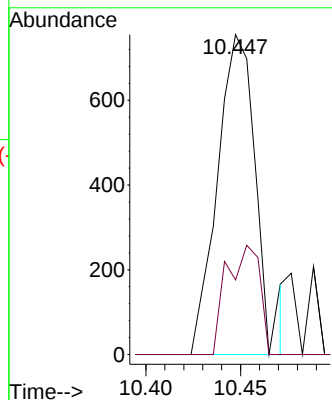
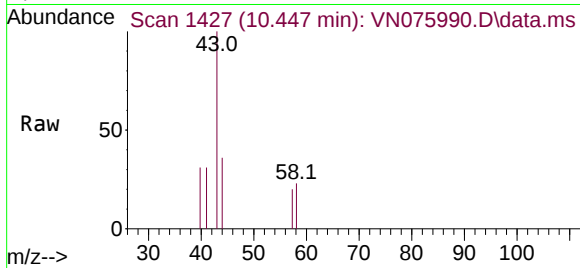




#51
4-Methyl-2-Pentanone
Concen: 0.367 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

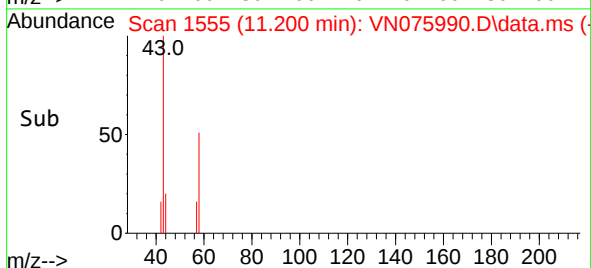
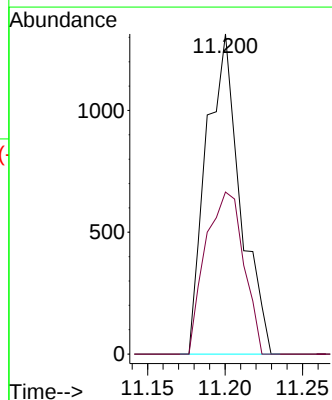
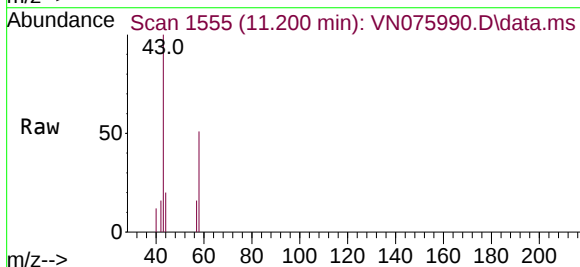
Instrument :
MSVOA_N
ClientSampleId :
VN1228MBL01

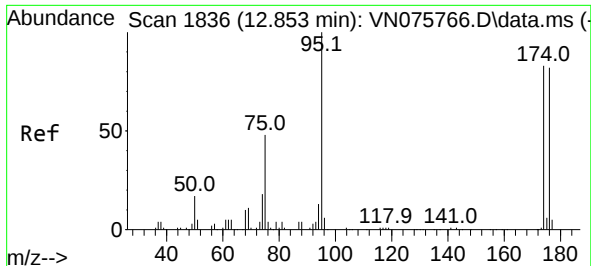
Tgt Ion: 43 Resp: 1075
Ion Ratio Lower Upper
43 100
58 29.0 35.5 53.3#



#59
2-Hexanone
Concen: 0.934 ug/l
RT: 11.200 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Tgt Ion: 43 Resp: 1994
Ion Ratio Lower Upper
43 100
58 57.0 30.6 92.0

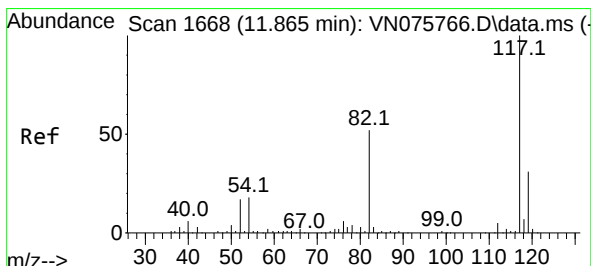
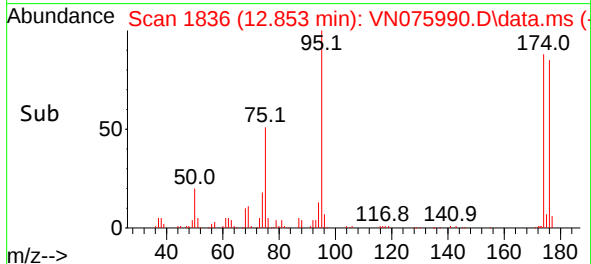
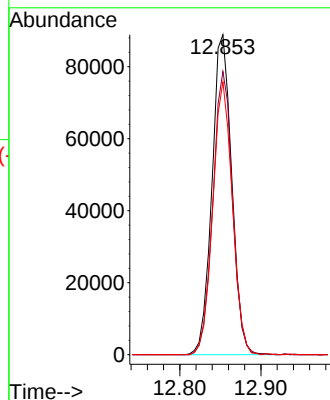
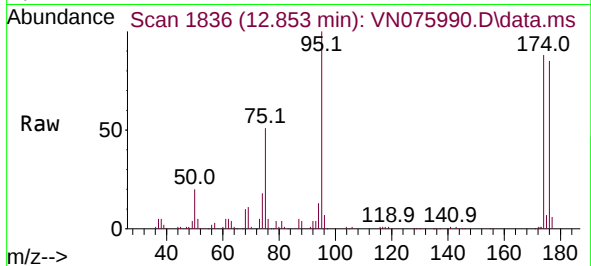




#62
4-Bromofluorobenzene
Concen: 44.061 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

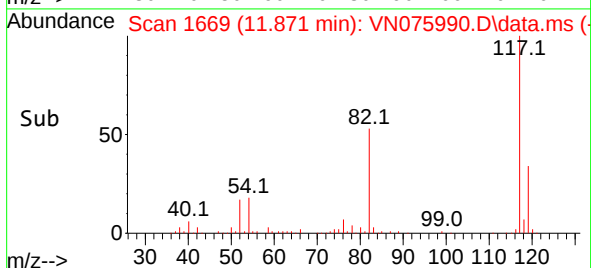
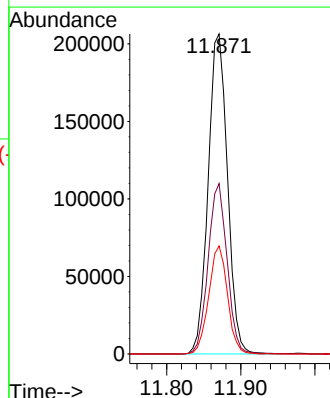
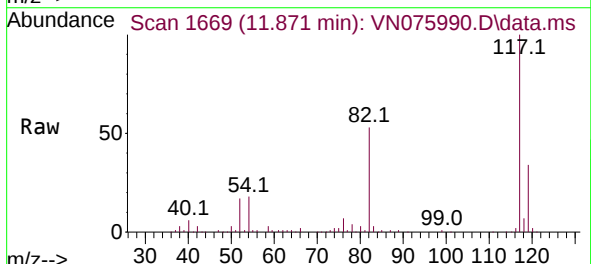
Instrument :
MSVOA_N
ClientSampleId :
VN1228MBL01

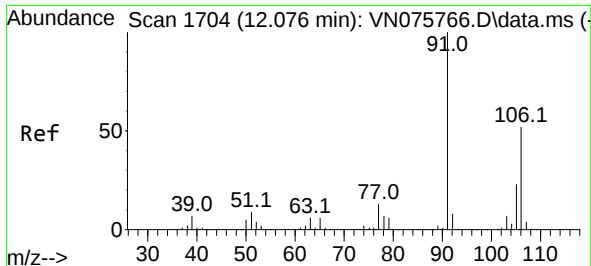
Tgt Ion: 95 Resp: 150106
Ion Ratio Lower Upper
95 100
174 87.7 0.0 171.6
176 84.5 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Tgt Ion: 117 Resp: 373788
Ion Ratio Lower Upper
117 100
82 53.2 41.3 61.9
119 33.8 24.6 37.0

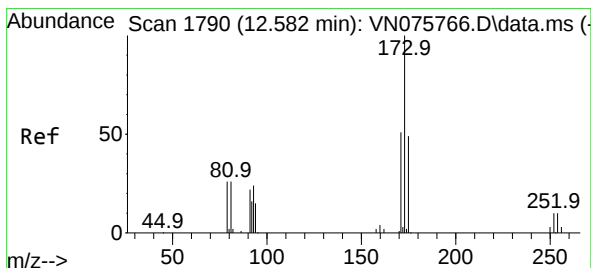
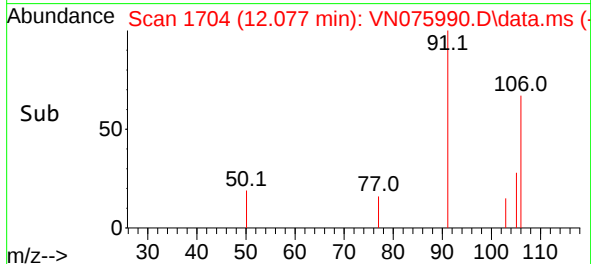
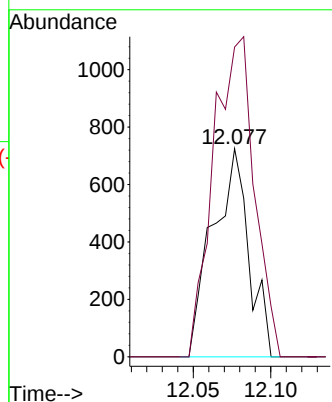
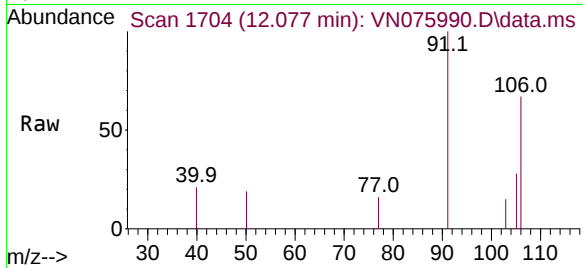




#68
m/p-Xylenes
Concen: 0.229 ug/l
RT: 12.077 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

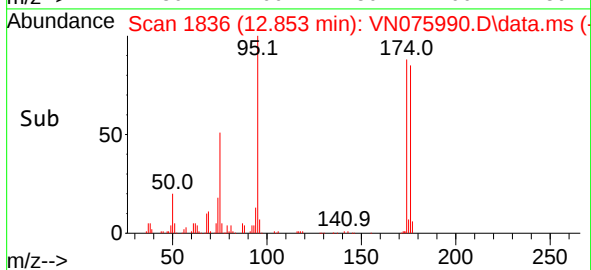
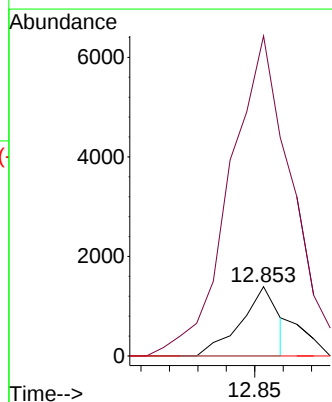
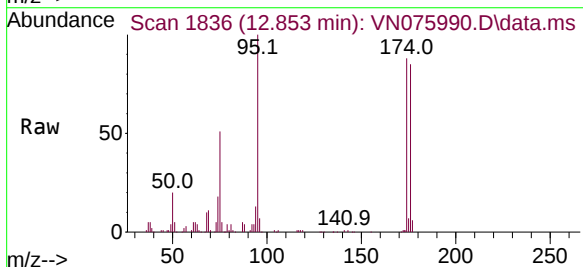
Instrument :
MSVOA_N
ClientSampleId :
VN1228MBL01

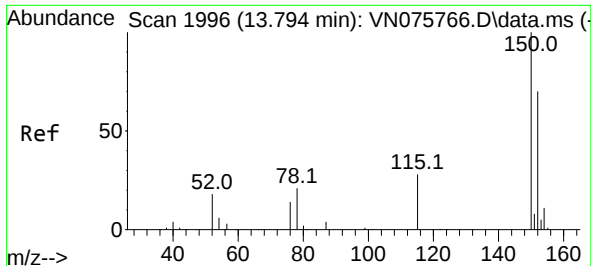
Tgt Ion:106 Resp: 1174
Ion Ratio Lower Upper
106 100
91 174.4 156.6 235.0



#71
Bromoform
Concen: 0.623 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Tgt Ion:173 Resp: 1288
Ion Ratio Lower Upper
173 100
175 613.5 24.3 72.8#
254 0.0 0.0 0.0

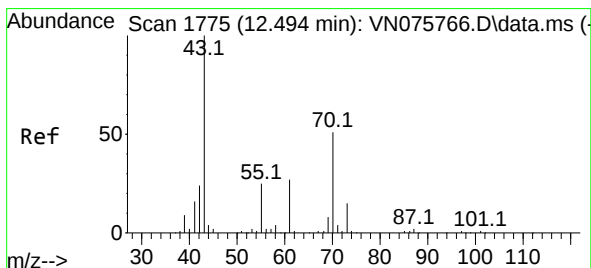
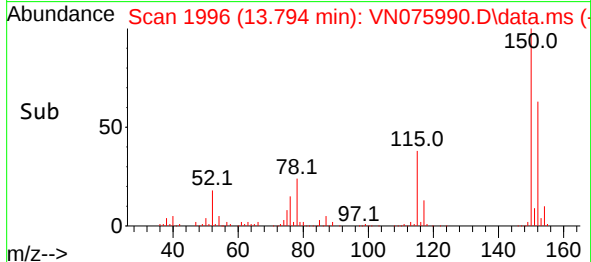
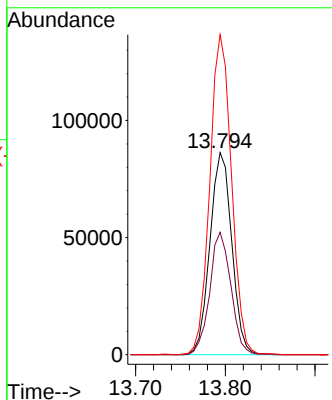
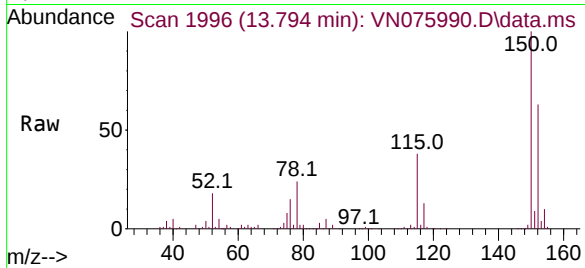




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. 0.000 min
 Lab File: VN075990.D
 Acq: 28 Dec 2022 11:11

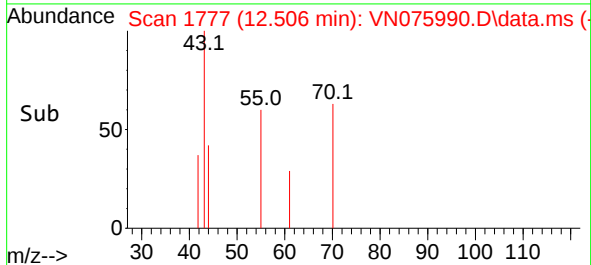
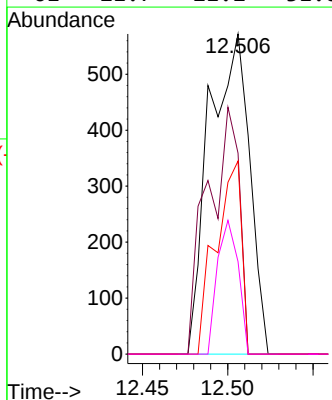
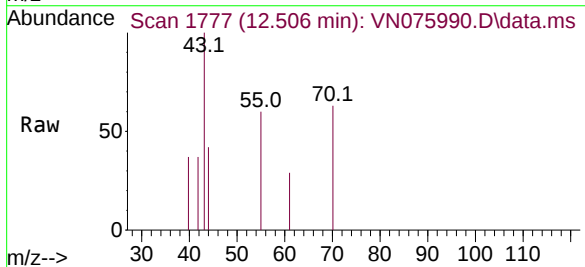
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1228MBL01

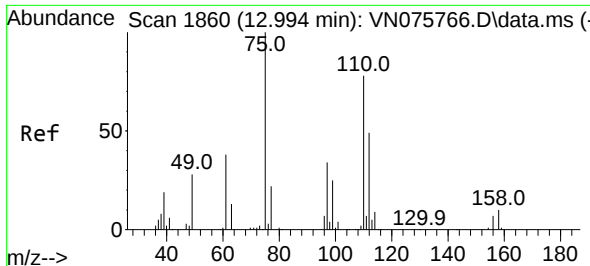
Tgt Ion:152 Resp: 145972
 Ion Ratio Lower Upper
 152 100
 115 58.8 29.1 87.4
 150 157.2 0.0 347.0



#74
 N-ethyl acetate
 Concen: 0.303 ug/l
 RT: 12.506 min Scan# 1777
 Delta R.T. 0.012 min
 Lab File: VN075990.D
 Acq: 28 Dec 2022 11:11

Tgt Ion: 43 Resp: 938
 Ion Ratio Lower Upper
 43 100
 70 60.8 41.4 62.0
 55 38.6 21.3 31.9#
 61 21.7 21.2 31.8

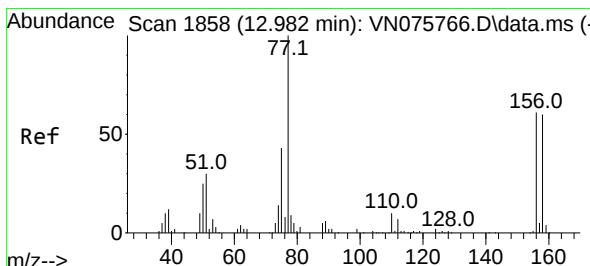
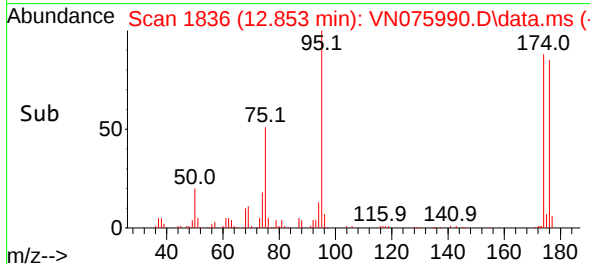
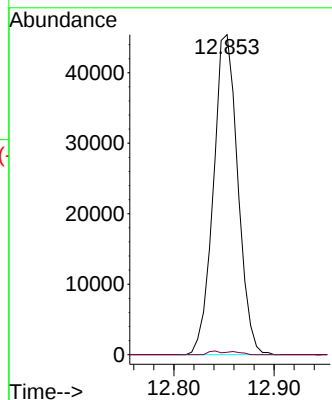
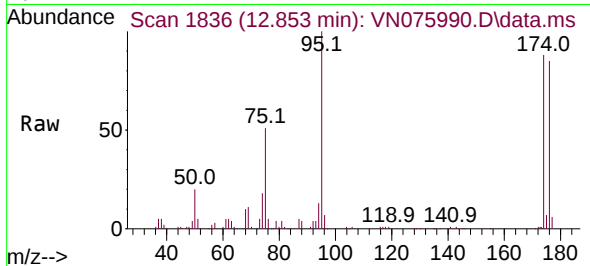




#76
1,2,3-Trichloropropane
Concen: 26.104 ug/l
RT: 12.853 min Scan# 11
Delta R.T. -0.141 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

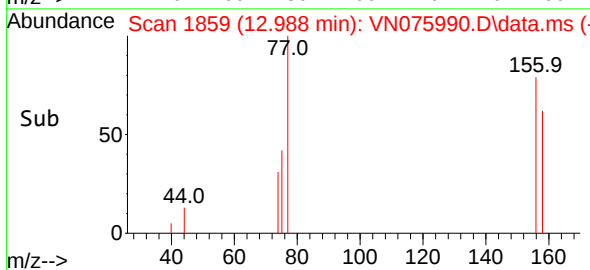
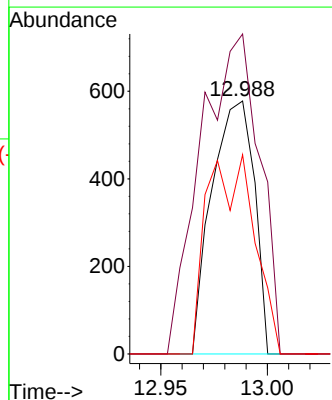
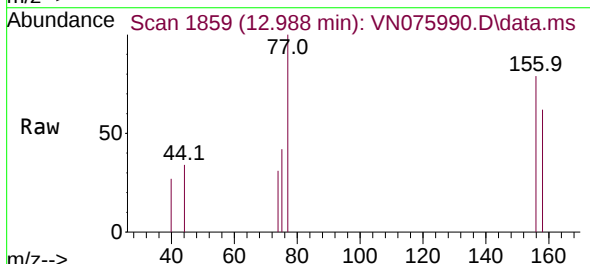
Instrument :
MSVOA_N
ClientSampleId :
VN1228MBL01

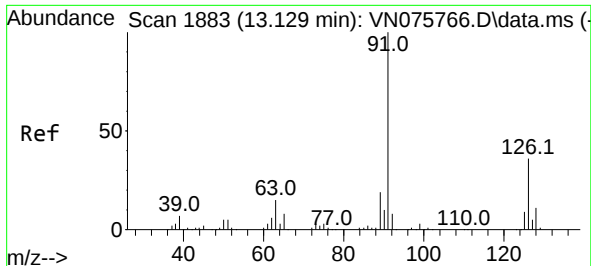
Tgt Ion: 75 Resp: 76809
Ion Ratio Lower Upper
75 100
77 0.7 82.6 247.8#



#77
Bromobenzene
Concen: 0.300 ug/l
RT: 12.988 min Scan# 1859
Delta R.T. 0.006 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Tgt Ion:156 Resp: 800
Ion Ratio Lower Upper
156 100
77 174.6 93.8 281.3
158 87.9 48.9 146.6

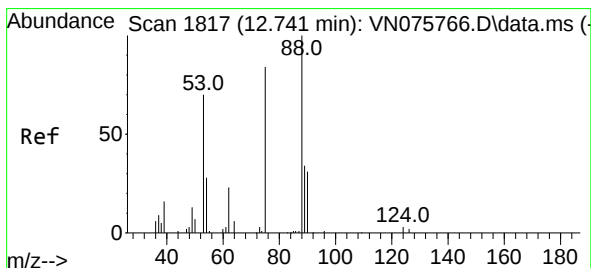
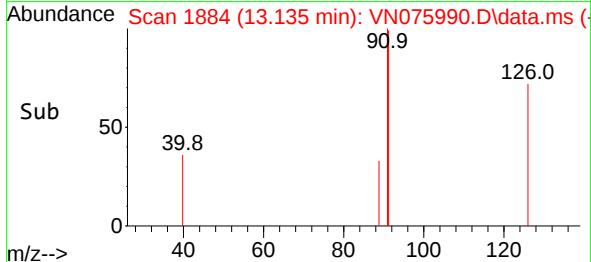
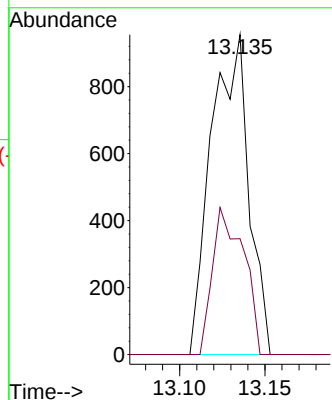
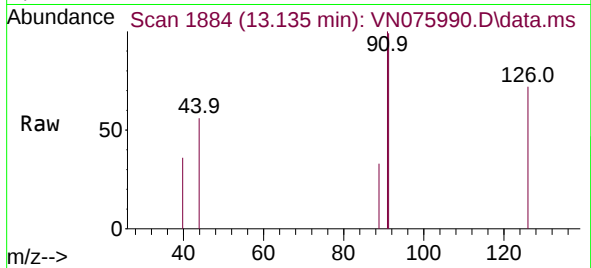




#79
2-Chlorotoluene
Concen: 0.201 ug/l
RT: 13.135 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

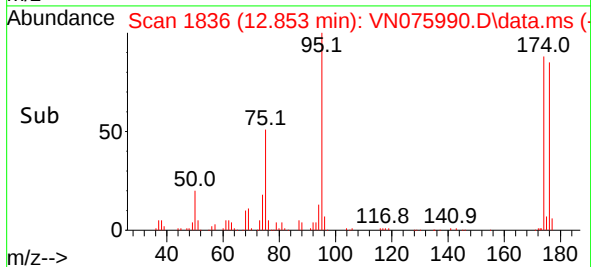
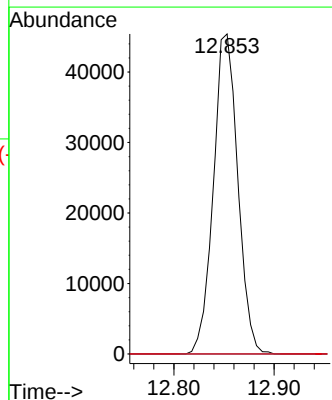
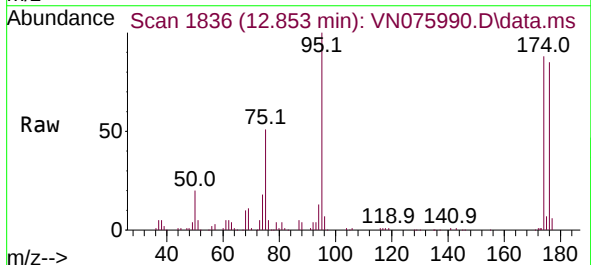
Instrument :
MSVOA_N
ClientSampleId :
VN1228MBL01

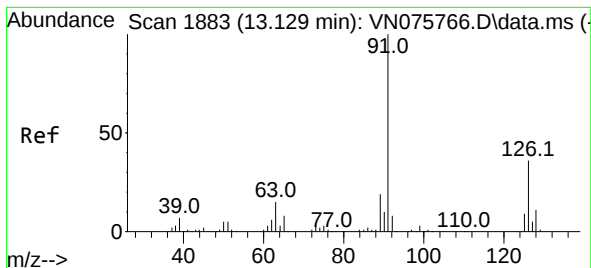
Tgt Ion: 91 Resp: 1461
Ion Ratio Lower Upper
91 100
126 38.2 17.5 52.5



#81
trans-1,4-Dichloro-2-butene
Concen: 93.961 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Tgt Ion: 75 Resp: 76809
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#





#82

4-Chlorotoluene

Concen: 0.201 ug/l

RT: 13.135 min Scan# 1883

Delta R.T. 0.006 min

Lab File: VN075990.D

Acq: 28 Dec 2022 11:11

Instrument :

MSVOA_N

ClientSampleId :

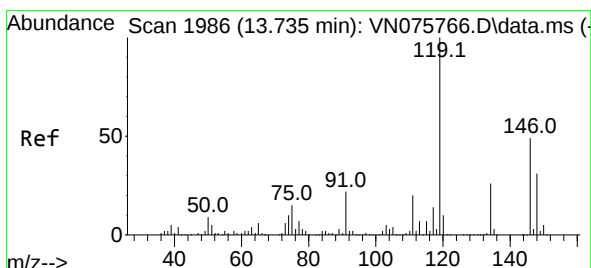
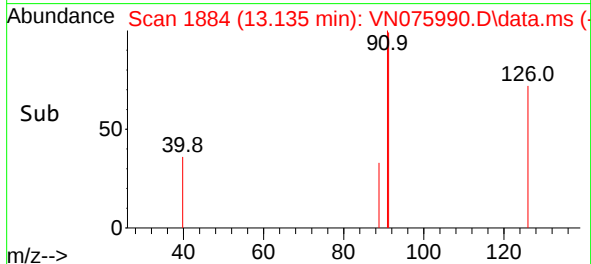
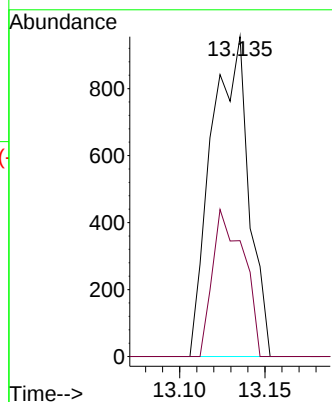
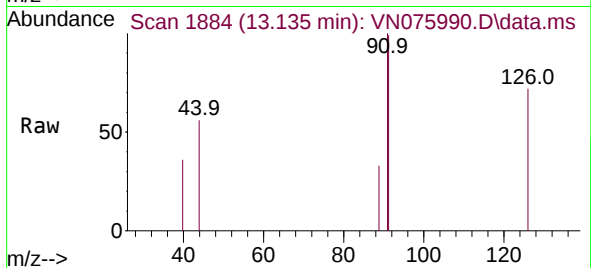
VN1228MBL01

Tgt Ion: 91 Resp: 1461

Ion Ratio Lower Upper

91 100

126 38.2 17.5 52.5



#87

1,3-Dichlorobenzene

Concen: 0.456 ug/l

RT: 13.735 min Scan# 1986

Delta R.T. 0.000 min

Lab File: VN075990.D

Acq: 28 Dec 2022 11:11

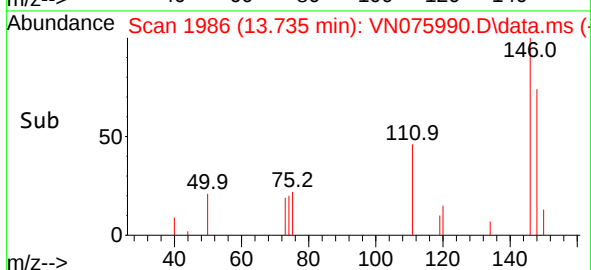
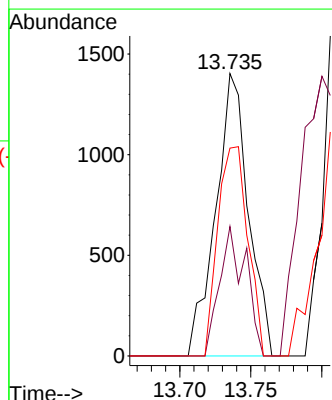
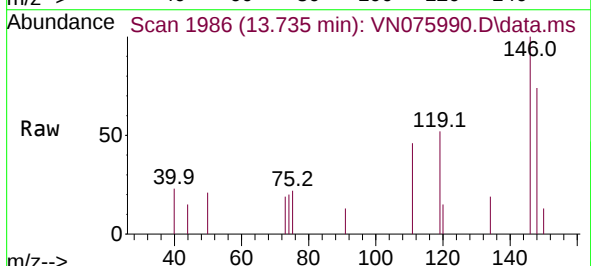
Tgt Ion:146 Resp: 2248

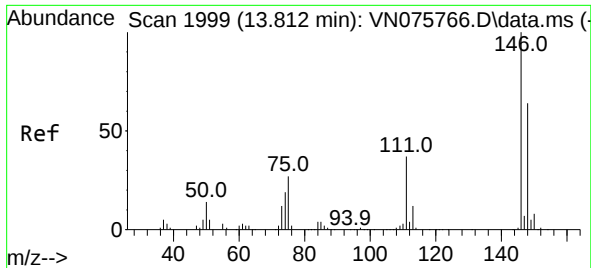
Ion Ratio Lower Upper

146 100

111 36.6 19.7 59.0

148 67.8 31.4 94.2

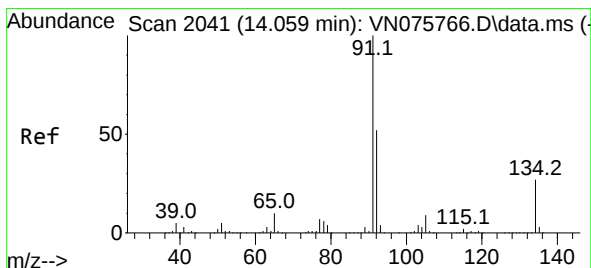
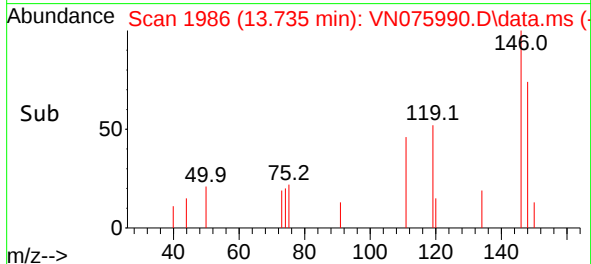
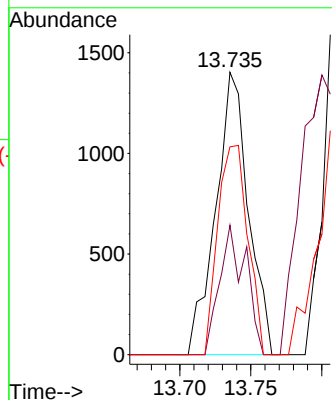
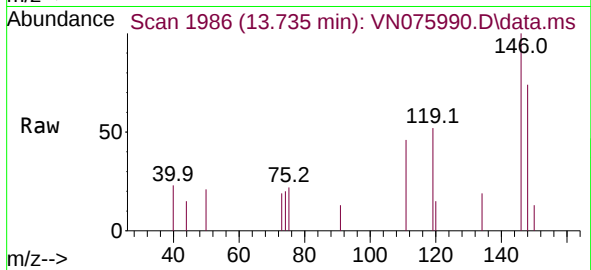




#88
1,4-Dichlorobenzene
Concen: 0.446 ug/l
RT: 13.735 min Scan# 1999
Delta R.T. -0.076 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

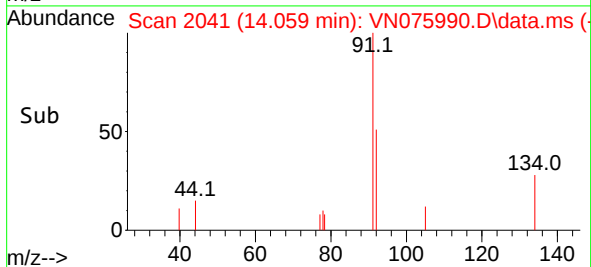
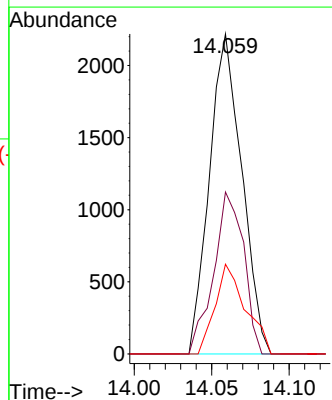
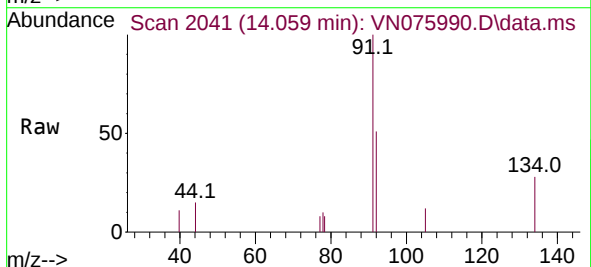
Instrument :
MSVOA_N
ClientSampleId :
VN1228MBL01

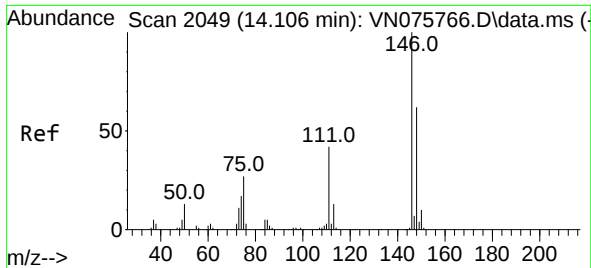
Tgt Ion:146 Resp: 2248
Ion Ratio Lower Upper
146 100
111 36.6 19.1 57.1
148 67.8 32.0 96.2



#89
n-Butylbenzene
Concen: 0.445 ug/l
RT: 14.059 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Tgt Ion: 91 Resp: 3223
Ion Ratio Lower Upper
91 100
92 46.8 26.4 79.2
134 26.3 13.4 40.2

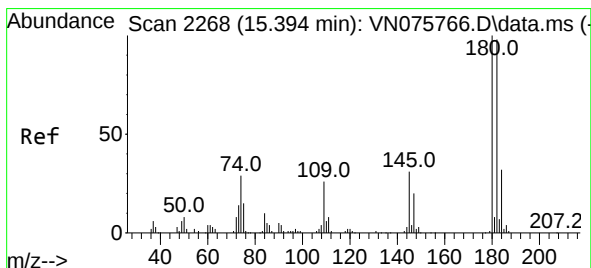
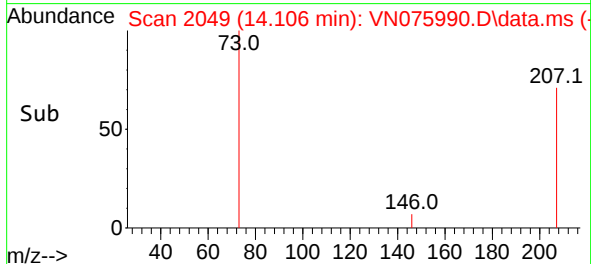
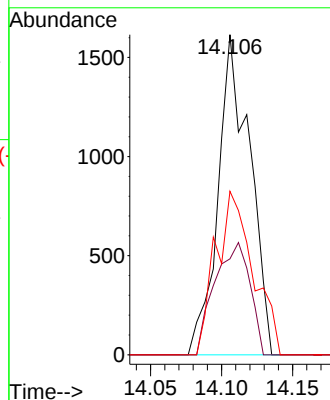
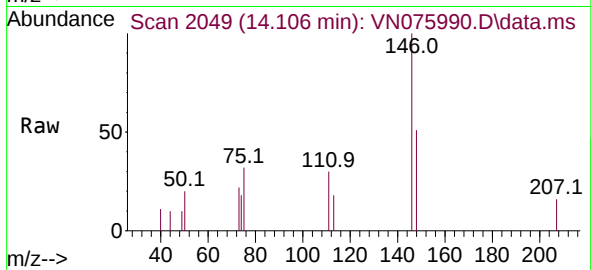




#91
1,2-Dichlorobenzene
Concen: 0.518 ug/l
RT: 14.106 min Scan# 2049
Delta R.T. 0.000 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

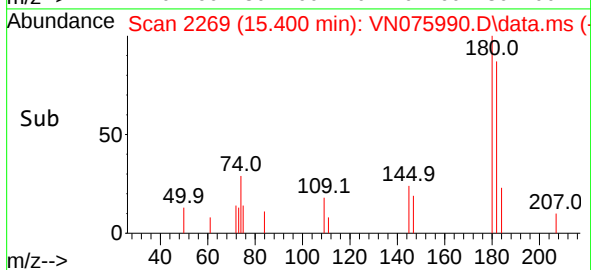
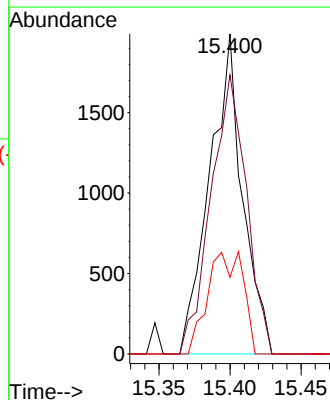
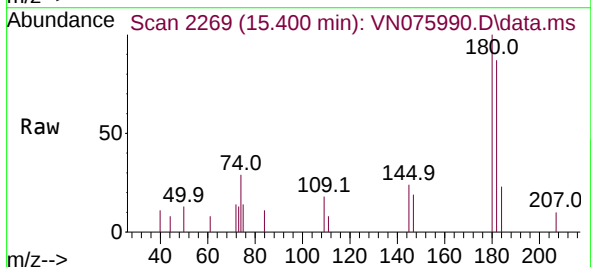
Instrument :
MSVOA_N
ClientSampleId :
VN1228MBL01

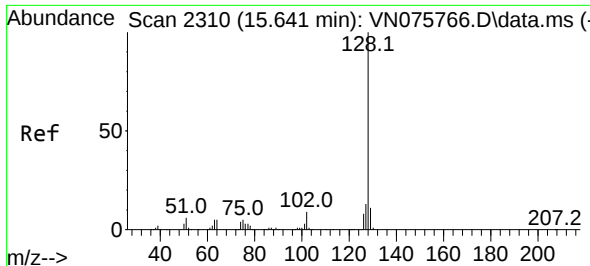
Tgt Ion:146 Resp: 2515
Ion Ratio Lower Upper
146 100
111 38.7 20.3 61.0
148 60.0 31.7 95.1



#93
1,2,4-Trichlorobenzene
Concen: 1.332 ug/l
RT: 15.400 min Scan# 2269
Delta R.T. 0.006 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Tgt Ion:180 Resp: 3203
Ion Ratio Lower Upper
180 100
182 94.0 47.5 142.5
145 34.3 15.3 45.8

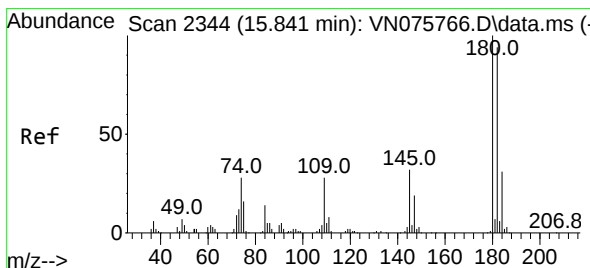
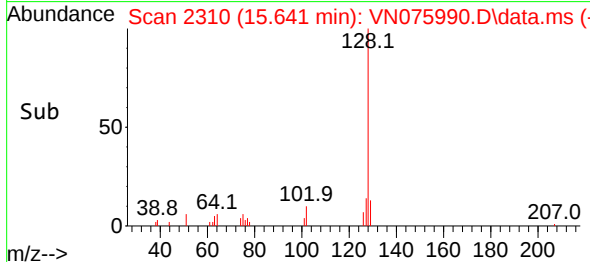
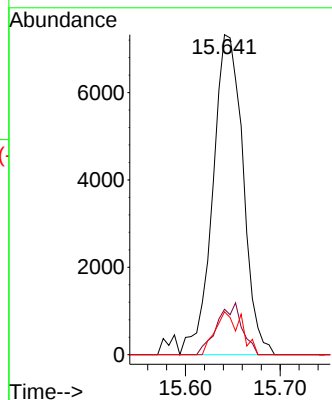
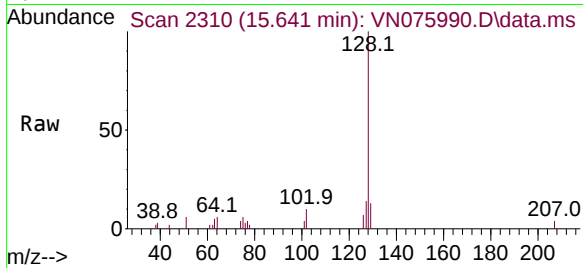




#95
Naphthalene
Concen: 4.129 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. 0.000 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Instrument :
MSVOA_N
ClientSampleId :
VN1228MBL01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.4	15.6
129	11.7	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 1.875 ug/l
RT: 15.841 min Scan# 2344
Delta R.T. 0.000 min
Lab File: VN075990.D
Acq: 28 Dec 2022 11:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	101.8	47.0	141.0
145	27.3	16.0	47.9

