

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084066.D
 Acq On : 20 Sep 2024 13:32
 Operator : JC\MD
 Sample : P4093-01 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 23:25:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

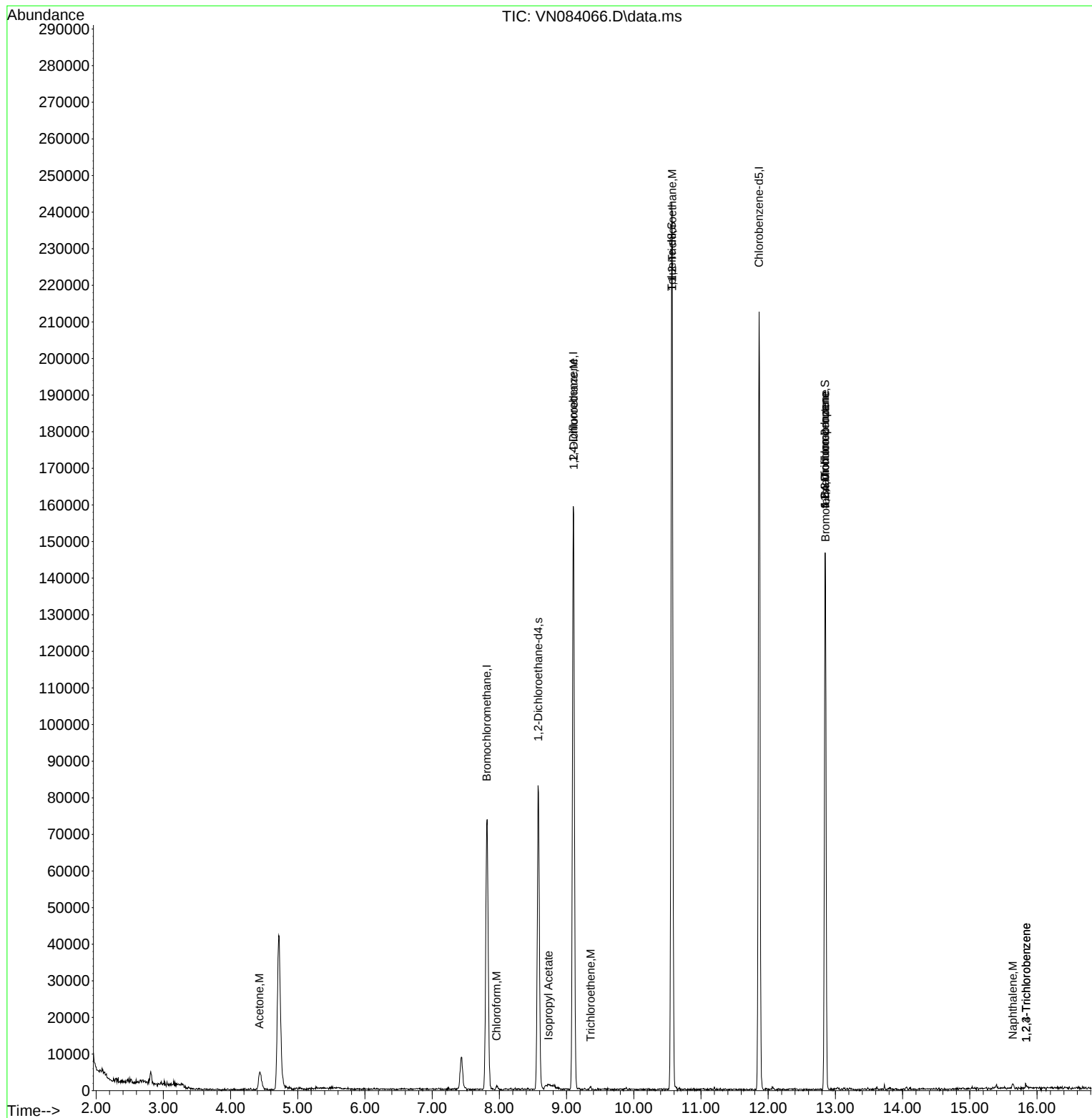
Internal Standards						
1) Bromochloromethane	7.812	128	24853	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	128754	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	116276	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	68880	30.320	ug/l	0.00
Spiked Amount	30.000	Range 91 - 110		Recovery	= 101.067%	
60) 4-Bromofluorobenzene	12.847	95	49844	24.872	ug/l	0.00
Spiked Amount	30.000	Range 63 - 112		Recovery	= 82.900%	
63) Toluene-d8	10.565	98	161728	30.039	ug/l	0.00
Spiked Amount	30.000	Range 91 - 112		Recovery	= 100.133%	
Target Compounds						
					Qvalue	
15) Acetone	4.430	58	2229	8.913	ug/l	88
25) Chloroform	7.959	83	1119	0.338	ug/l	95
36) 1,2-Dichloroethane	9.106	62	5679	2.465	ug/l #	72
37) Trichloroethene	9.359	130	458	0.318	ug/l #	72
44) Isopropyl Acetate	8.730	43	707	0.211	ug/l #	43
50) 1,1,2-Trichloroethane	10.571	97	5920	4.315	ug/l #	1
56) Bromoform	12.853	173	360	0.344	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	28067	16.412	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	28067	38.827	ug/l #	12
89) 1,2,4-Trichlorobenzene	15.841	180	471	0.281	ug/l #	51
91) Naphthalene	15.641	128	2091	0.381	ug/l #	72
92) 1,2,3-Trichlorobenzene	15.841	180	471	0.281	ug/l #	51

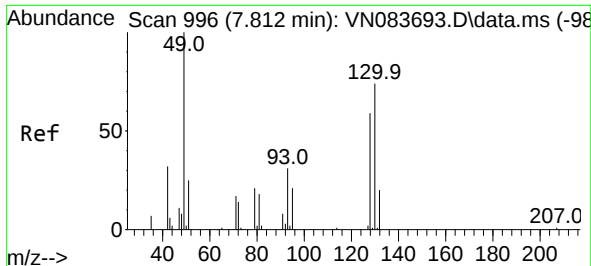
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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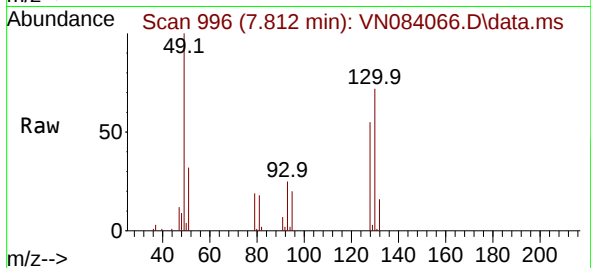
Quant Time: Sep 20 23:25:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 06 23:42:47 2024
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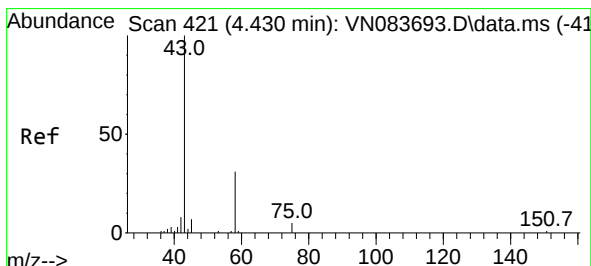
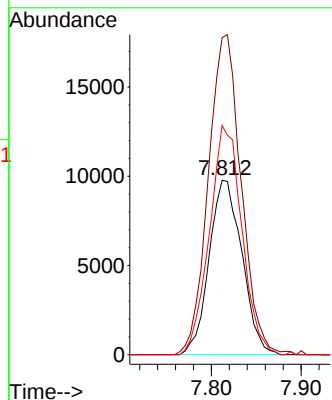
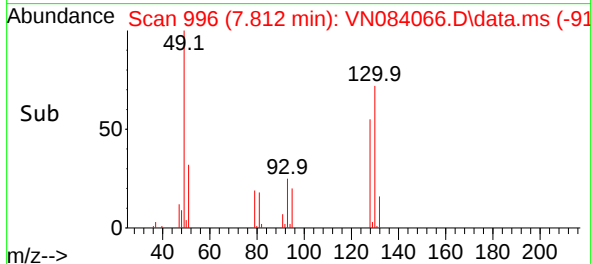


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

Instrument :
MSVOA_N
ClientSampleId :

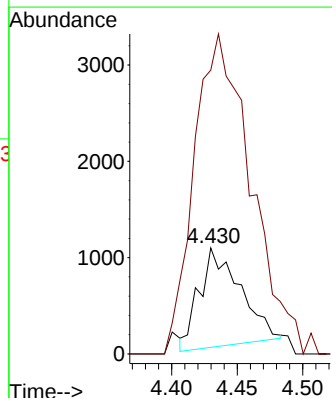
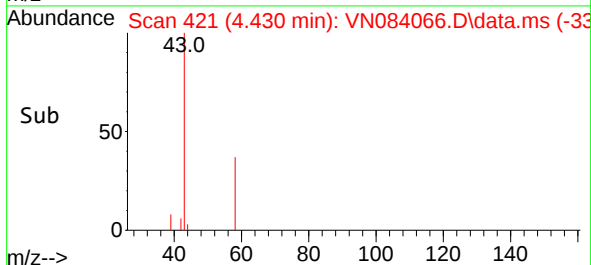
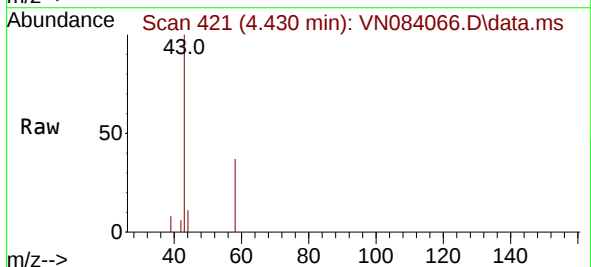


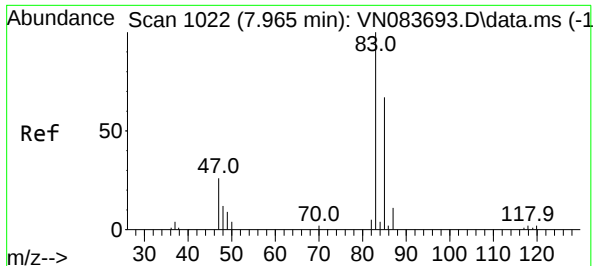
Tgt Ion:128 Resp: 24853
Ion Ratio Lower Upper
128 100
49 183.2 0.0 403.7
130 129.7 0.0 323.3



#15
Acetone
Concen: 8.913 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

Tgt Ion: 58 Resp: 2229
Ion Ratio Lower Upper
58 100
43 255.6 223.1 334.7





#25

Chloroform

Concen: 0.338 ug/l

RT: 7.959 min Scan# 1102

Delta R.T. -0.006 min

Lab File: VN084066.D

Acq: 20 Sep 2024 13:32

Instrument :

MSVOA_N

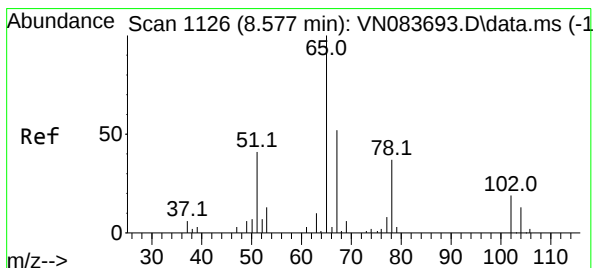
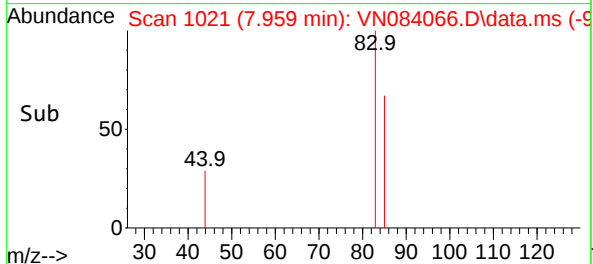
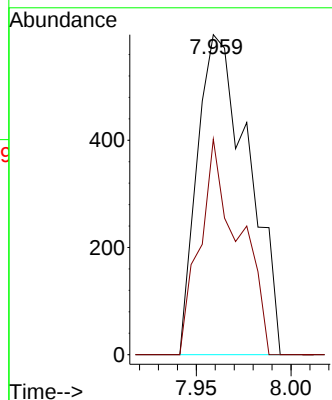
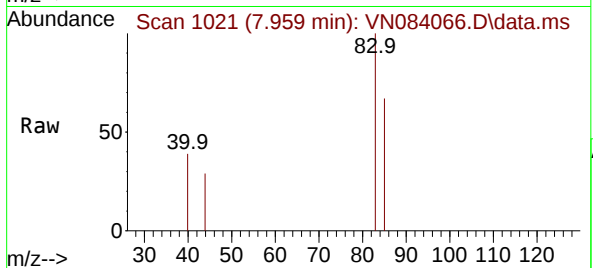
ClientSampleId :

Tgt Ion: 83 Resp: 1119

Ion Ratio Lower Upper

83 100

85 67.3 50.9 76.3



#27

1,2-Dichloroethane-d4

Concen: 30.320 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN084066.D

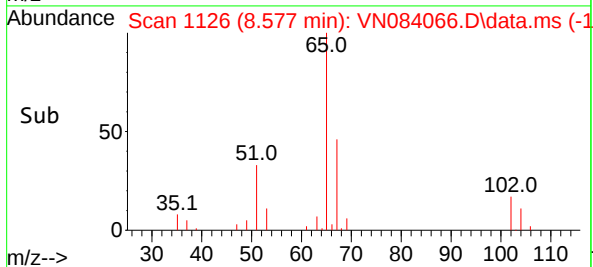
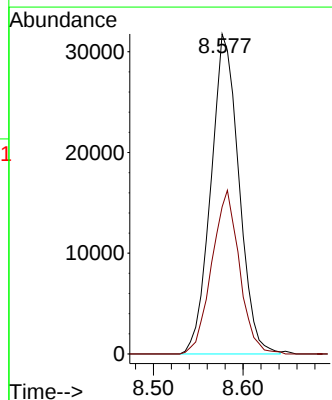
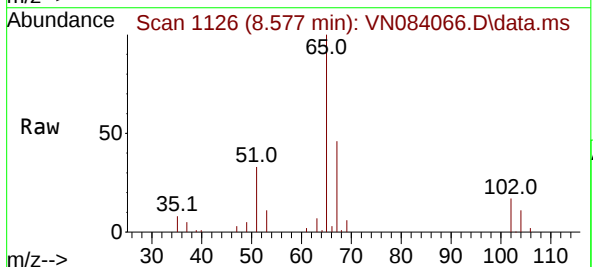
Acq: 20 Sep 2024 13:32

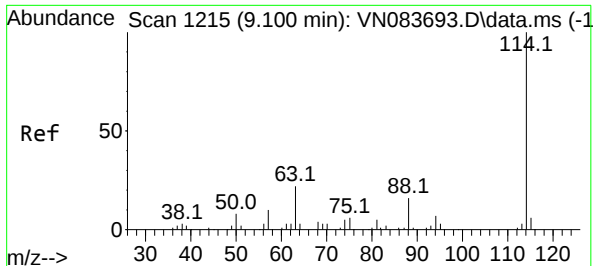
Tgt Ion: 65 Resp: 68880

Ion Ratio Lower Upper

65 100

67 50.6 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084066.D

Acq: 20 Sep 2024 13:32

Instrument :

MSVOA_N

ClientSampleId :

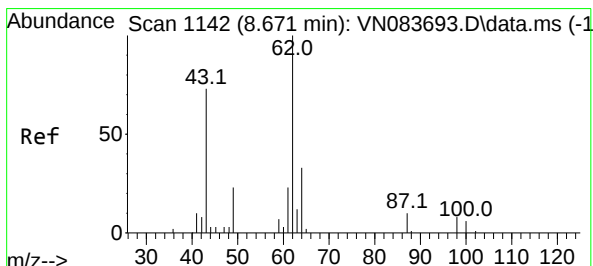
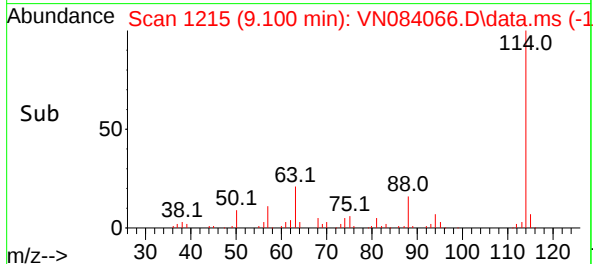
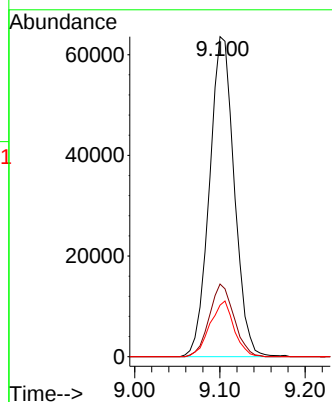
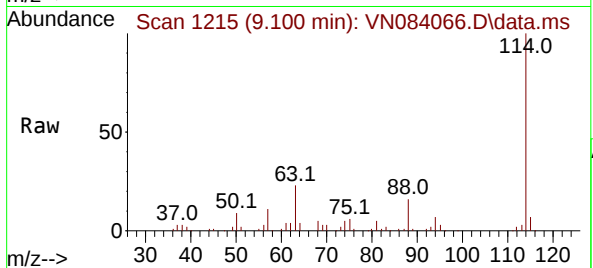
Tgt Ion:114 Resp: 128754

Ion Ratio Lower Upper

114 100

63 22.5 15.9 23.9

88 16.9 12.7 19.1



#36

1,2-Dichloroethane

Concen: 2.465 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.435 min

Lab File: VN084066.D

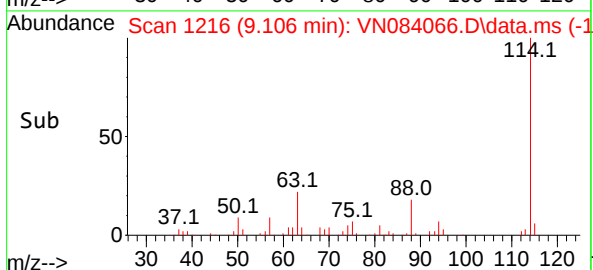
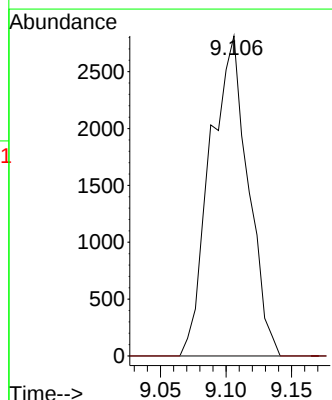
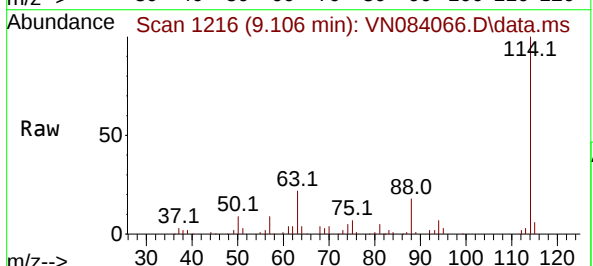
Acq: 20 Sep 2024 13:32

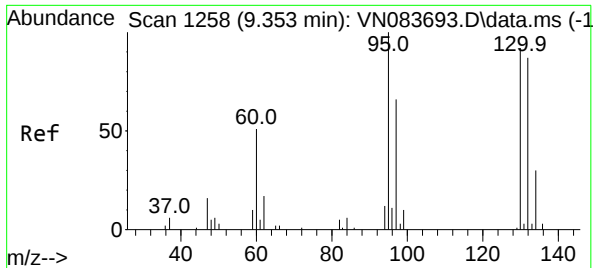
Tgt Ion: 62 Resp: 5679

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#

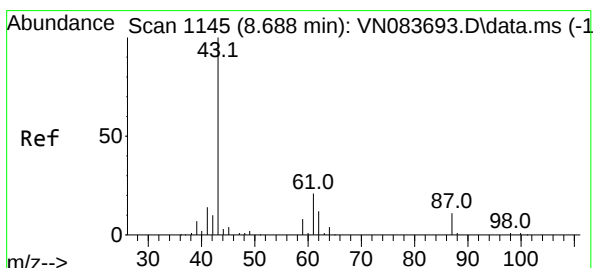
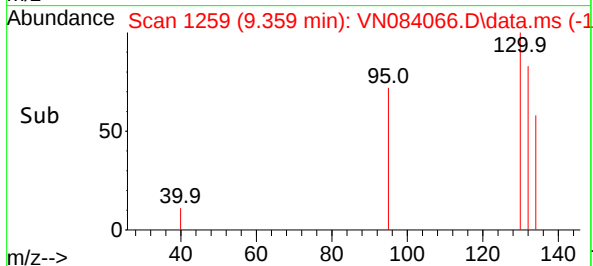
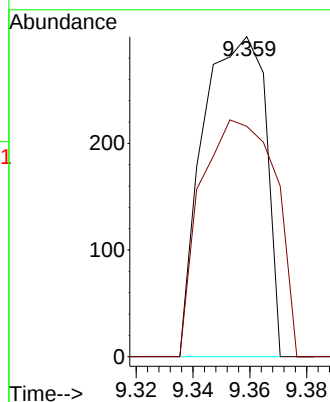
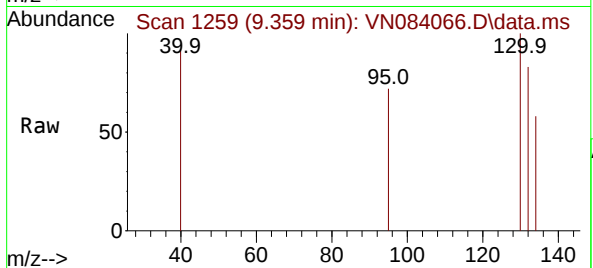




#37
Trichloroethene
Concen: 0.318 ug/l
RT: 9.359 min Scan# 1152
Delta R.T. 0.006 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

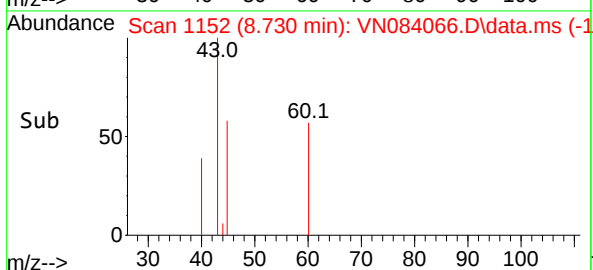
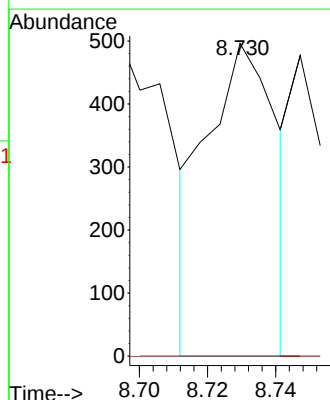
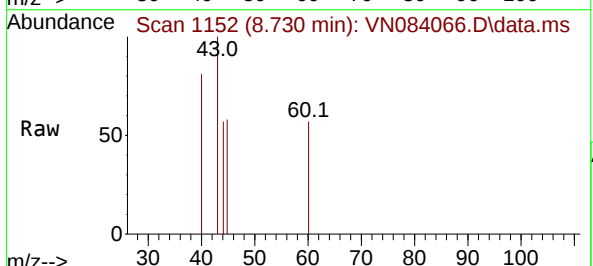
Instrument :
MSVOA_N
ClientSampleId :

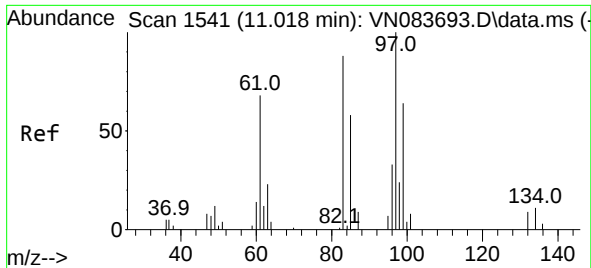
Tgt Ion:130 Resp: 458
Ion Ratio Lower Upper
130 100
95 72.0 80.2 120.4#



#44
Isopropyl Acetate
Concen: 0.211 ug/l
RT: 8.730 min Scan# 1152
Delta R.T. 0.041 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

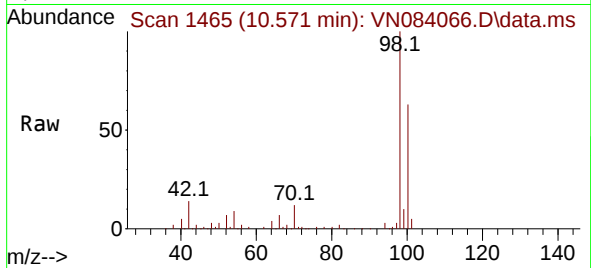
Tgt Ion: 43 Resp: 707
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.4#



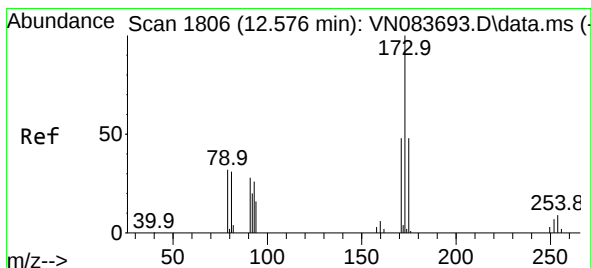
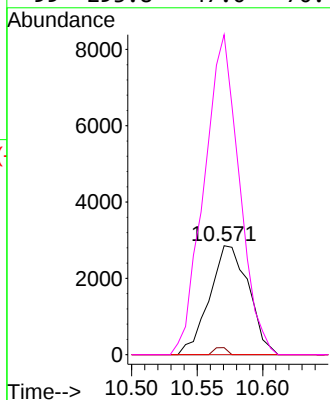
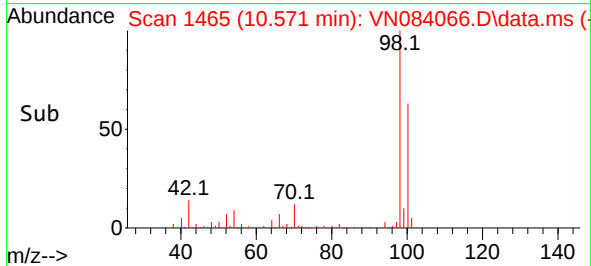


#50
1,1,2-Trichloroethane
Concen: 4.315 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.447 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

Instrument :
MSVOA_N
ClientSampleId :

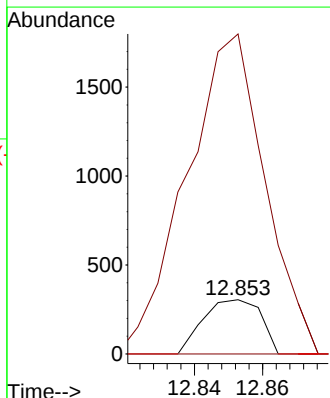
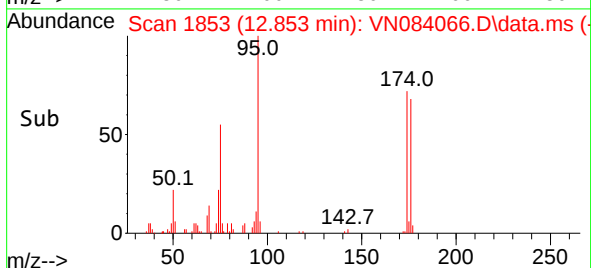
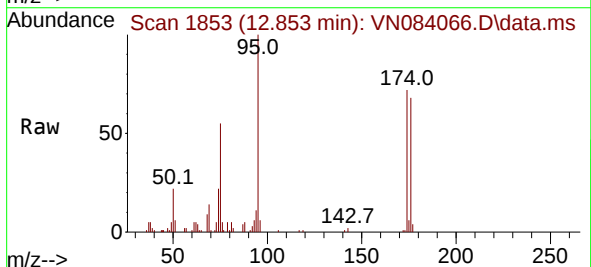


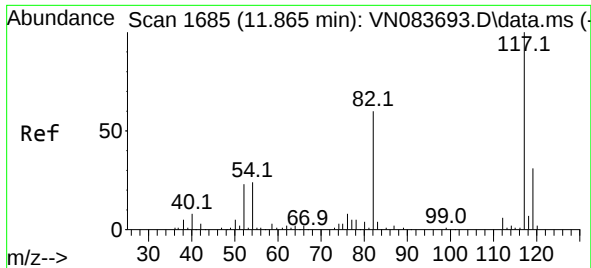
Tgt Ion: 97 Resp: 5920
Ion Ratio Lower Upper
97 100
83 6.4 68.1 102.1#
85 0.0 41.8 62.6#
99 293.8 47.0 70.4#



#56
Bromoform
Concen: 0.344 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.276 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

Tgt Ion:173 Resp: 360
Ion Ratio Lower Upper
173 100
175 800.3 40.0 60.0#
254 0.0 8.3 12.5#

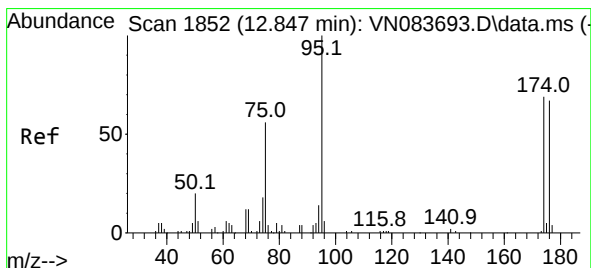
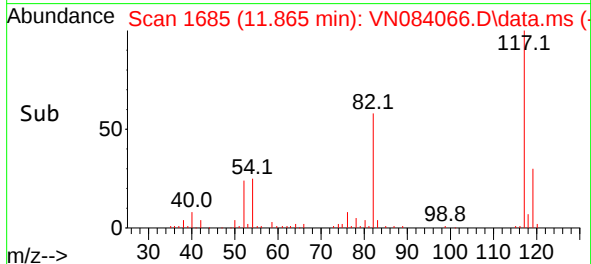
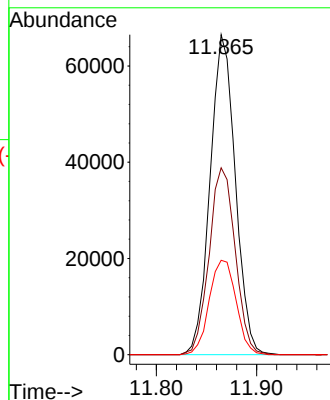
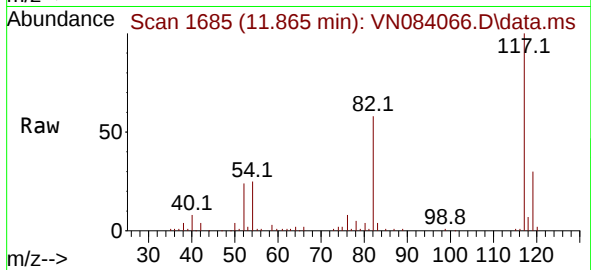




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

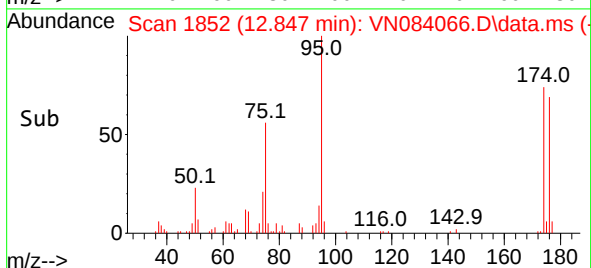
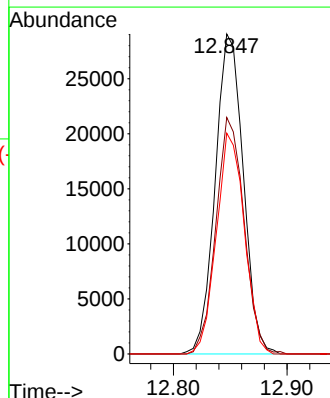
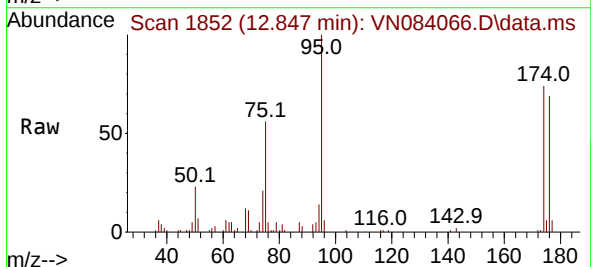
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MSVOA_N
ClientSampleId :

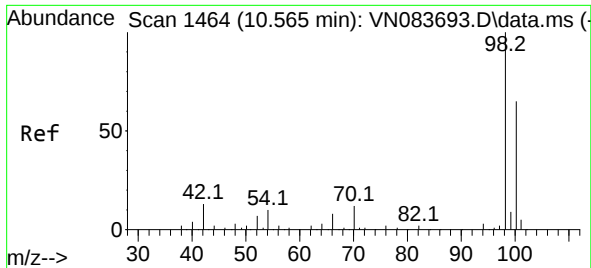
Tgt Ion:117 Resp: 116276
Ion Ratio Lower Upper
117 100
82 60.5 46.6 69.8
119 31.5 25.4 38.2



#60
4-Bromofluorobenzene
Concen: 24.872 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

Tgt Ion: 95 Resp: 49844
Ion Ratio Lower Upper
95 100
174 73.9 60.5 90.7
176 68.8 57.8 86.6

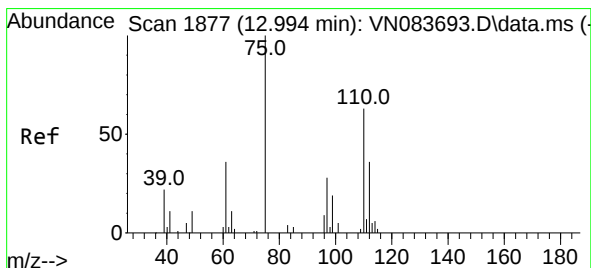
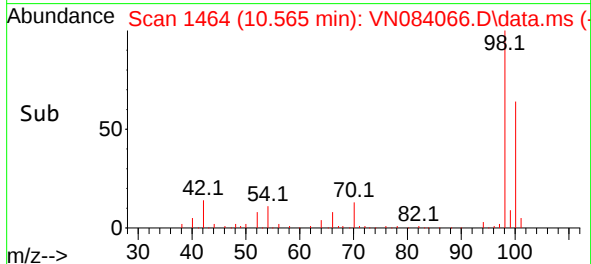
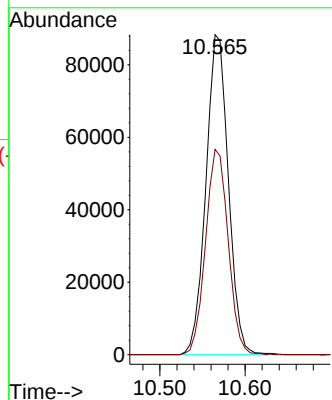
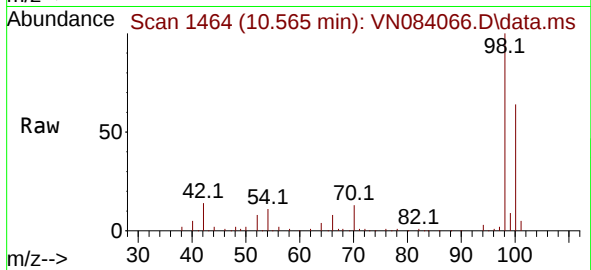




#63
Toluene-d8
Concen: 30.039 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

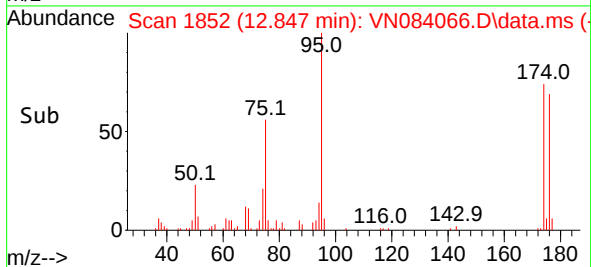
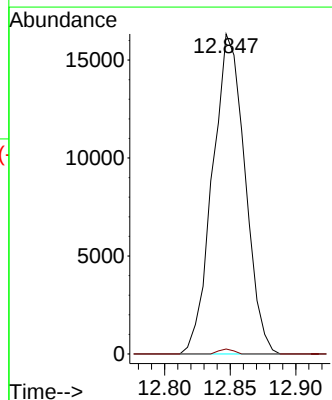
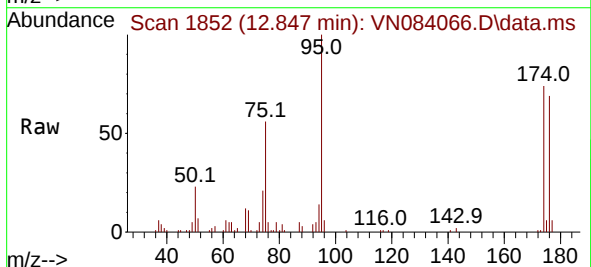
Instrument :
MSVOA_N
ClientSampleId :

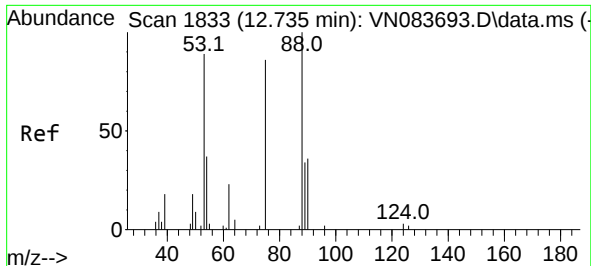
Tgt Ion: 98 Resp: 161728
Ion Ratio Lower Upper
98 100
100 64.5 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 16.412 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

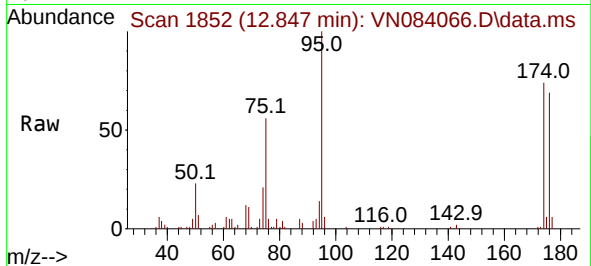
Tgt Ion: 75 Resp: 28067
Ion Ratio Lower Upper
75 100
77 0.7 0.0 367.6



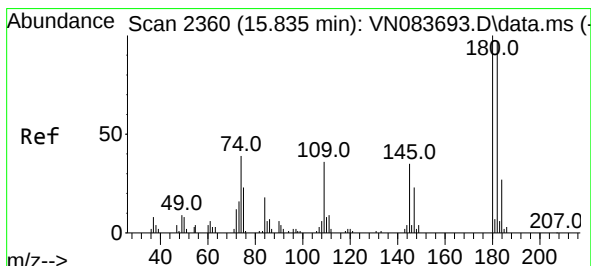
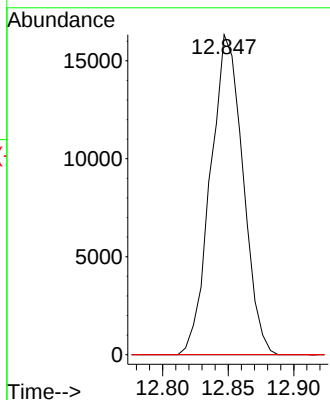
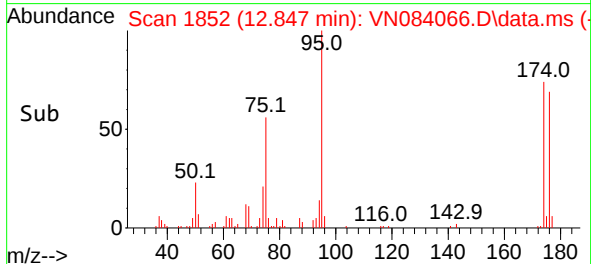


#77
t-1,4-Dichloro-2-butene
Concen: 38.827 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

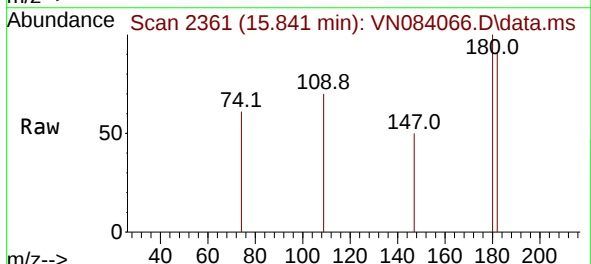
Instrument :
MSVOA_N
ClientSampleId :



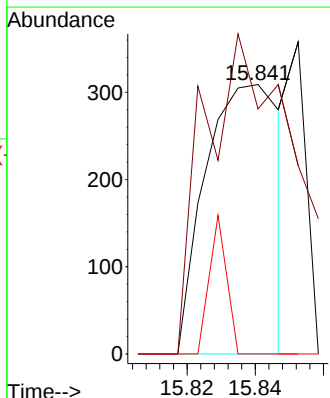
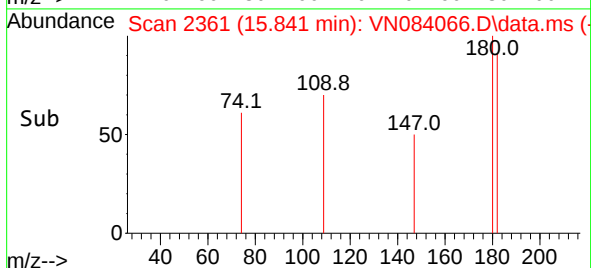
Tgt Ion: 75 Resp: 28067
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#

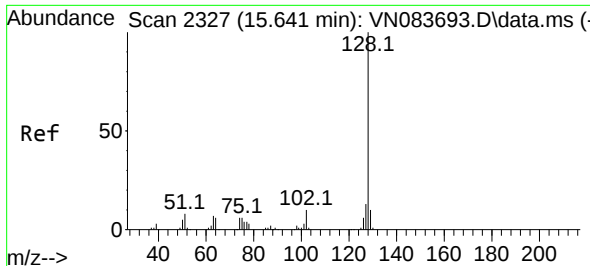


#89
1,2,4-Trichlorobenzene
Concen: 0.281 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32



Tgt Ion:180 Resp: 471
Ion Ratio Lower Upper
180 100
182 139.1 76.4 114.6#
145 0.0 28.4 42.6#

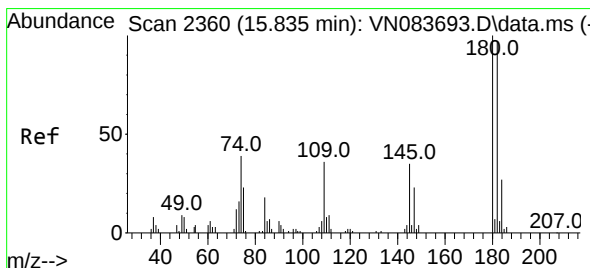
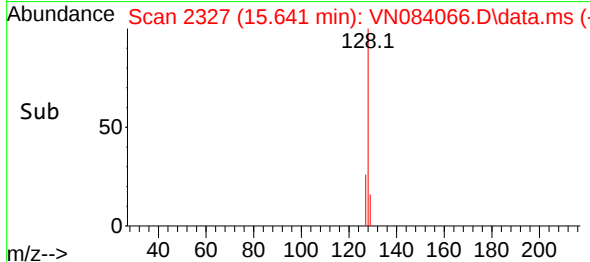
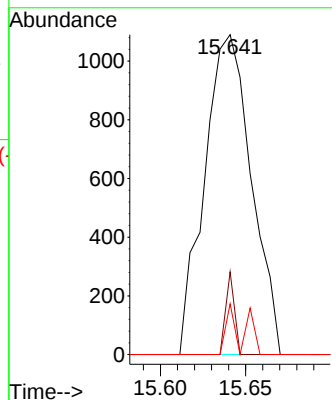
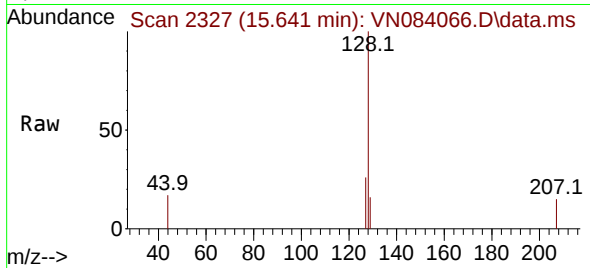




#91
Naphthalene
Concen: 0.381 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 2091
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 2.9 8.6 13.0#



#92
1,2,3-Trichlorobenzene
Concen: 0.281 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN084066.D
Acq: 20 Sep 2024 13:32

Tgt Ion:180 Resp: 471
Ion Ratio Lower Upper
180 100
182 139.1 0.0 191.0
145 0.0 0.0 71.0

