

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092624\
 Data File : VN084188.D
 Acq On : 26 Sep 2024 19:52
 Operator : JC\MD
 Sample : P4165-04 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 27 01:14:35 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)

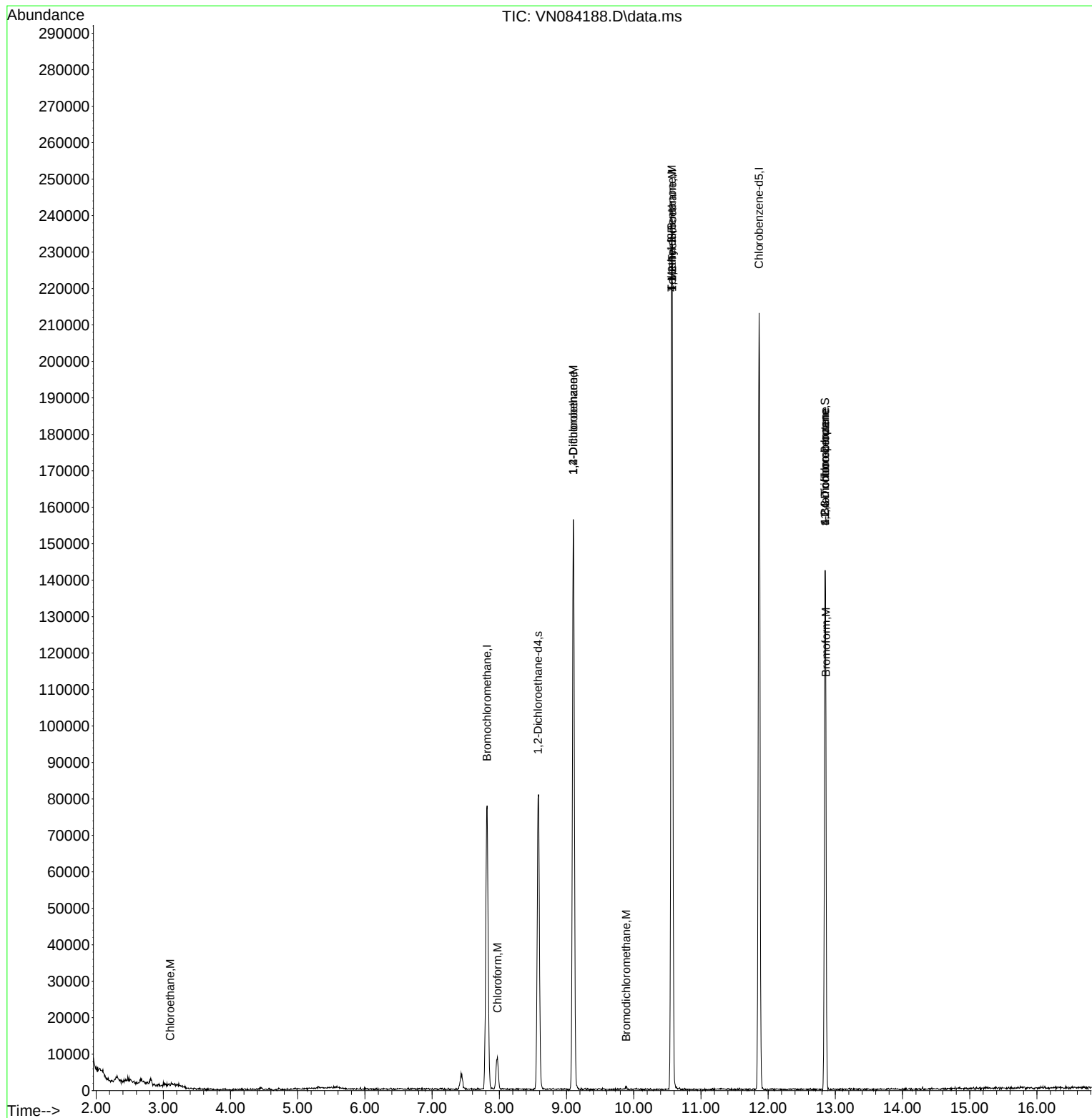
Internal Standards						
1) Bromochloromethane	7.818	128	26238	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	129408	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	120436	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	68873	28.717	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.733%		
60) 4-Bromofluorobenzene	12.847	95	50239	24.204	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	80.667%		
63) Toluene-d8	10.565	98	167050	29.955	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.867%		
Target Compounds						
					Qvalue	
6) Chloroethane	3.101	64	424	0.337	ug/l #	41
25) Chloroform	7.971	83	8952	2.562	ug/l	91
36) 1,2-Dichloroethane	9.100	62	5645	2.438	ug/l #	72
41) Bromodichloromethane	9.888	83	477	0.207	ug/l #	75
50) 1,1,2-Trichloroethane	10.571	97	3607	2.616	ug/l #	1
56) Bromoform	12.859	173	339	0.323	ug/l #	1
58) 4-Methyl-2-Pentanone	10.565	43	636	0.333	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	26755	15.104	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	26755	35.734	ug/l #	12

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

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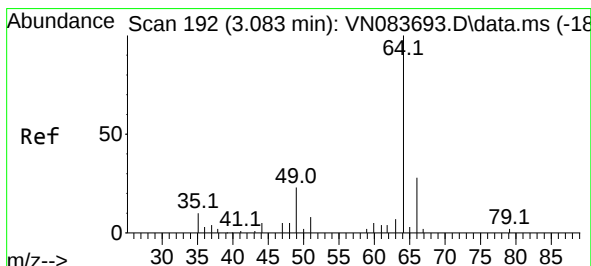
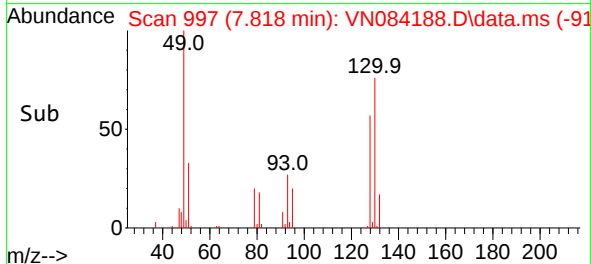
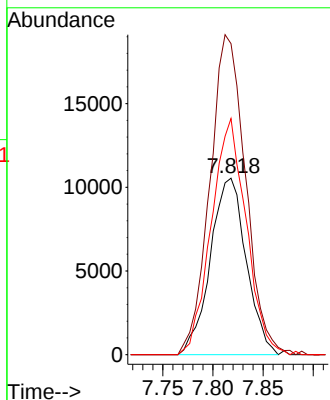
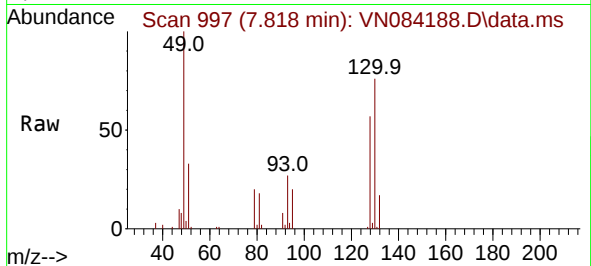




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN084188.D
Acq: 26 Sep 2024 19:52

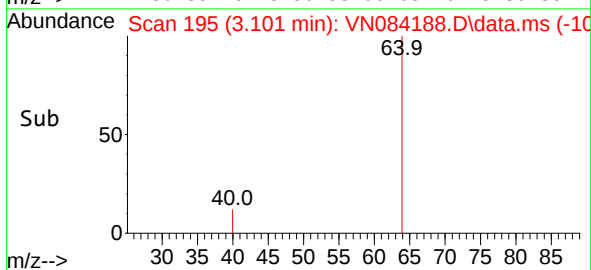
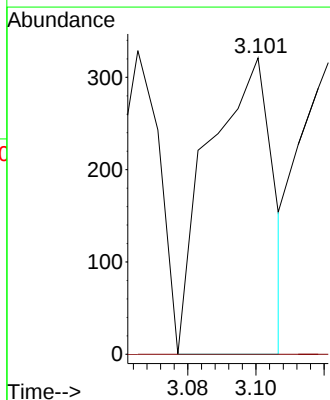
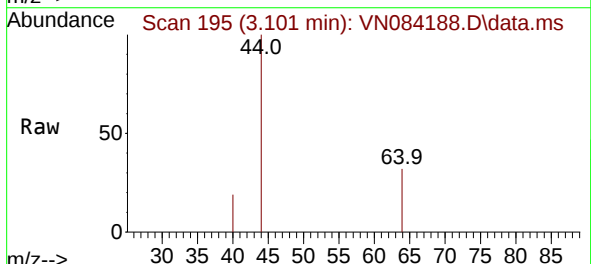
Instrument :
MSVOA_N
ClientSampleId :

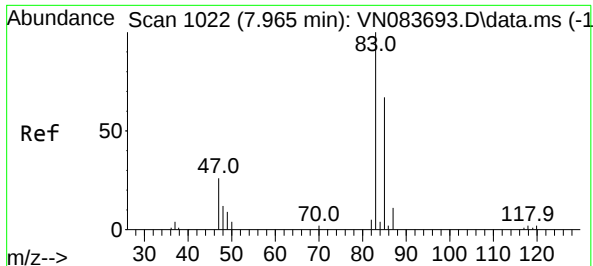
Tgt Ion:128 Resp: 26238
Ion Ratio Lower Upper
128 100
49 180.1 0.0 403.7
130 130.2 0.0 323.3



#6
Chloroethane
Concen: 0.337 ug/l
RT: 3.101 min Scan# 195
Delta R.T. 0.018 min
Lab File: VN084188.D
Acq: 26 Sep 2024 19:52

Tgt Ion: 64 Resp: 424
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#





#25

Chloroform

Concen: 2.562 ug/l

RT: 7.971 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN084188.D

Acq: 26 Sep 2024 19:52

Instrument :

MSVOA_N

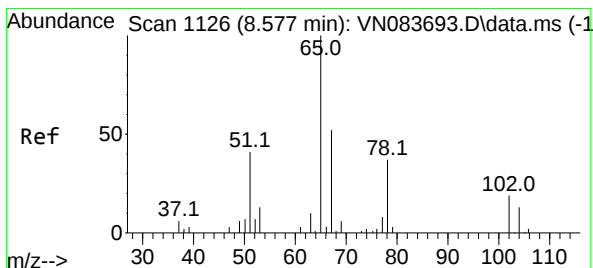
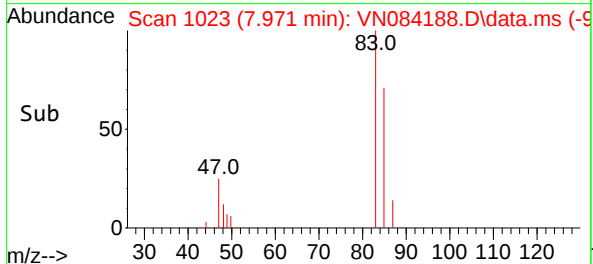
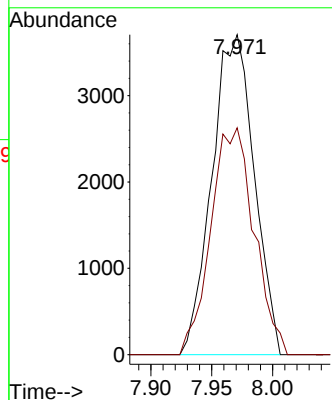
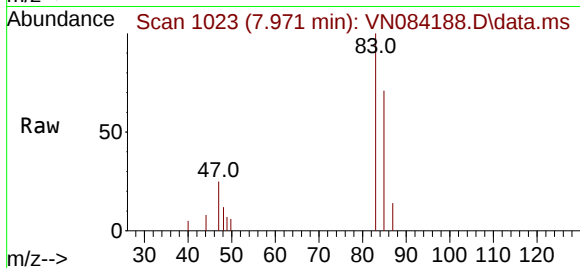
ClientSampleId :

Tgt Ion: 83 Resp: 8952

Ion Ratio Lower Upper

83 100

85 70.9 50.9 76.3



#27

1,2-Dichloroethane-d4

Concen: 28.717 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN084188.D

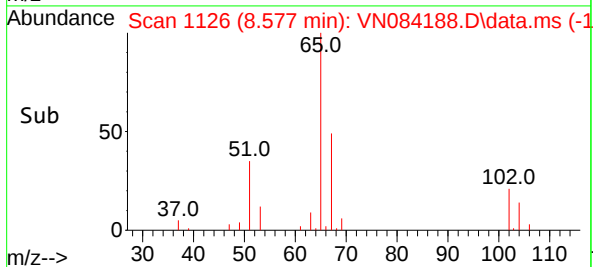
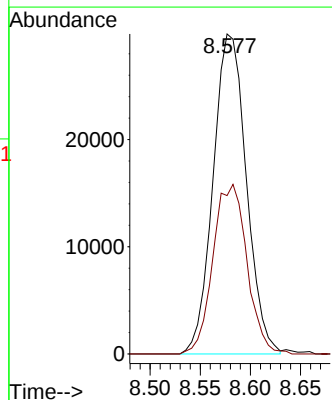
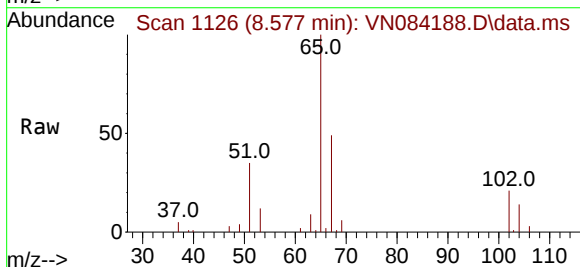
Acq: 26 Sep 2024 19:52

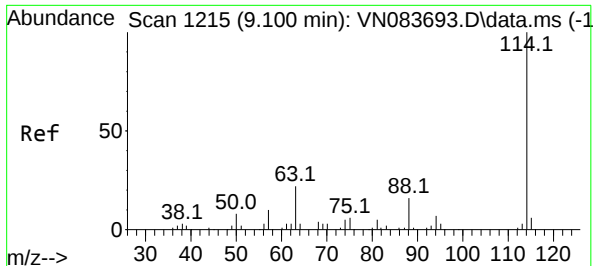
Tgt Ion: 65 Resp: 68873

Ion Ratio Lower Upper

65 100

67 54.1 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN084188.D

Acq: 26 Sep 2024 19:52

Instrument :

MSVOA_N

ClientSampleId :

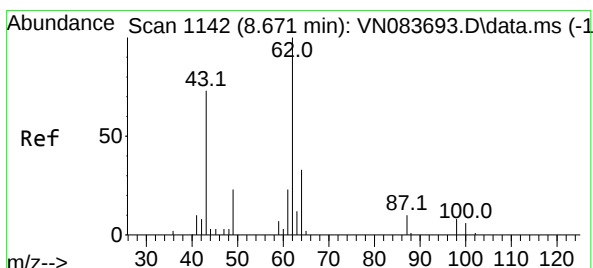
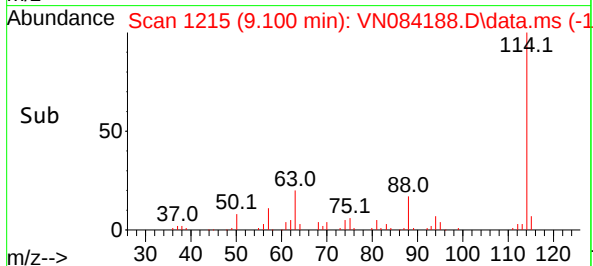
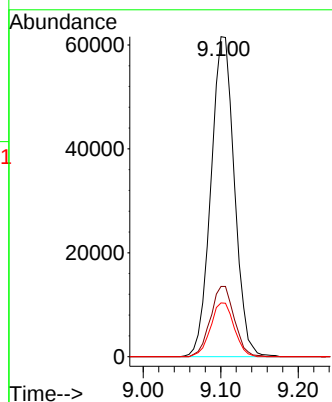
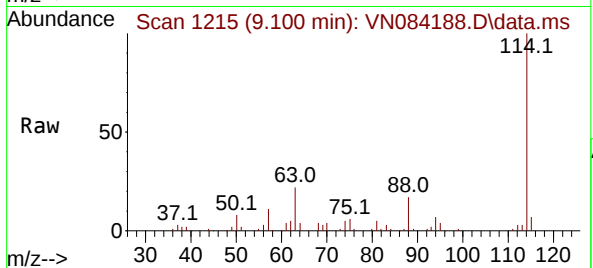
Tgt Ion:114 Resp: 129408

Ion Ratio Lower Upper

114 100

63 22.3 15.9 23.9

88 16.9 12.7 19.1



#36

1,2-Dichloroethane

Concen: 2.438 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.430 min

Lab File: VN084188.D

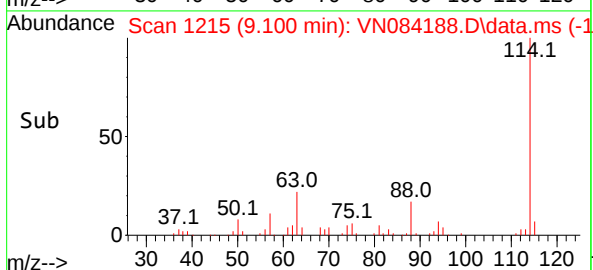
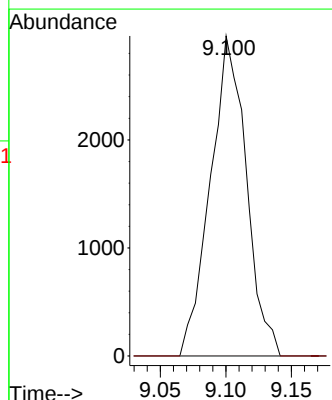
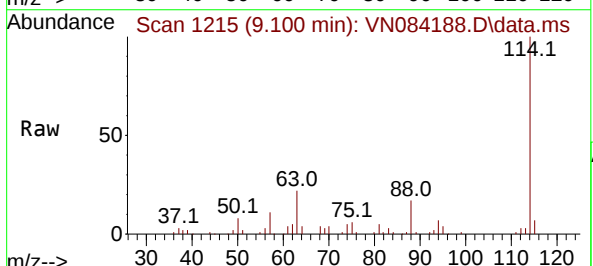
Acq: 26 Sep 2024 19:52

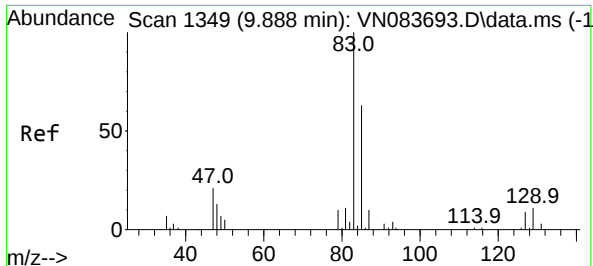
Tgt Ion: 62 Resp: 5645

Ion Ratio Lower Upper

62 100

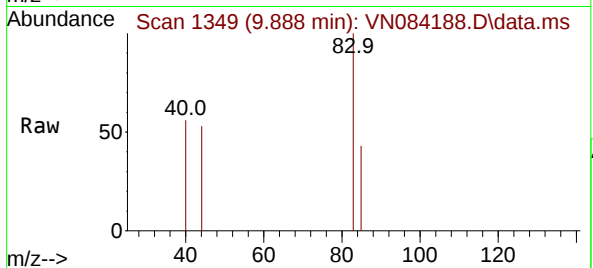
98 0.0 8.2 12.4#



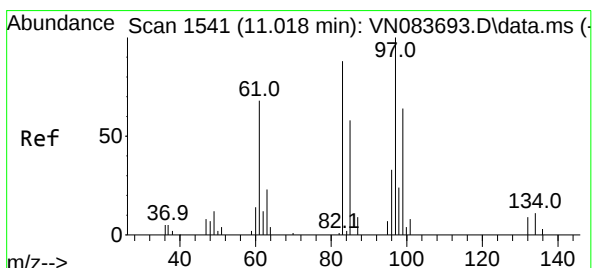
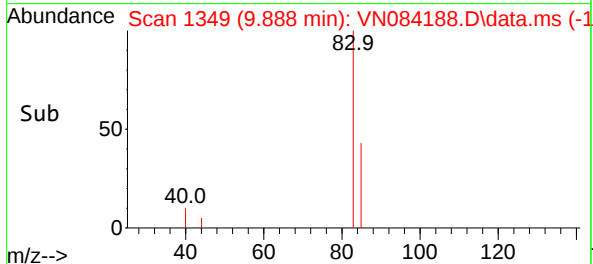
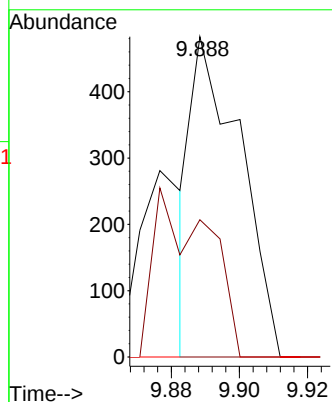


#41
Bromodichloromethane
Concen: 0.207 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084188.D
Acq: 26 Sep 2024 19:52

Instrument :
MSVOA_N
ClientSampleId :

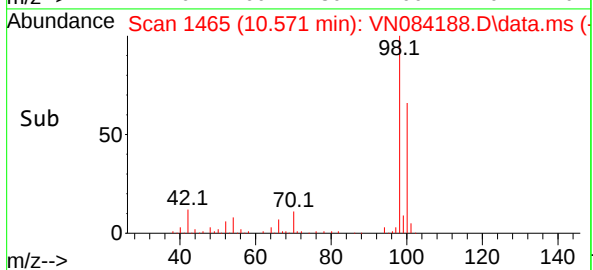
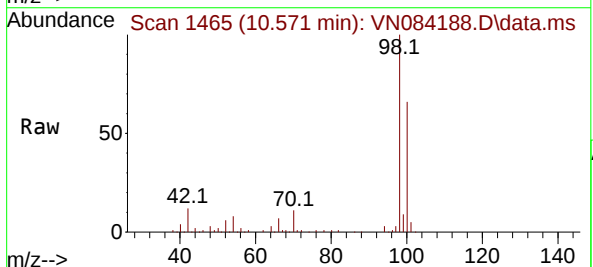
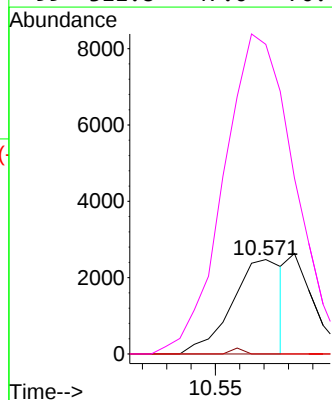


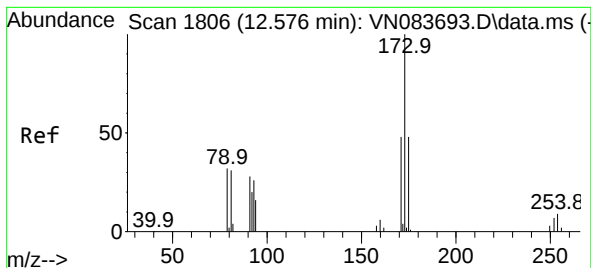
Tgt Ion: 83 Resp: 477
Ion Ratio Lower Upper
83 100
85 42.9 49.4 74.2#
127 0.0 7.3 10.9#



#50
1,1,2-Trichloroethane
Concen: 2.616 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.447 min
Lab File: VN084188.D
Acq: 26 Sep 2024 19:52

Tgt Ion: 97 Resp: 3607
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 41.8 62.6#
99 311.8 47.0 70.4#





#56

Bromoform

Concen: 0.323 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.282 min

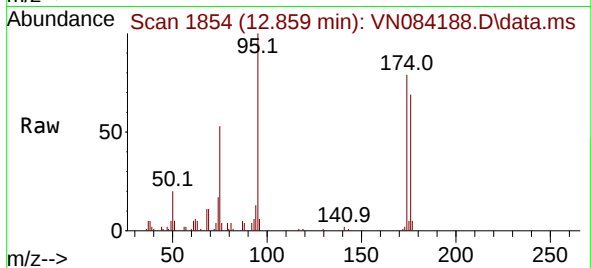
Lab File: VN084188.D

Acq: 26 Sep 2024 19:52

Instrument :

MSVOA_N

ClientSampleId :



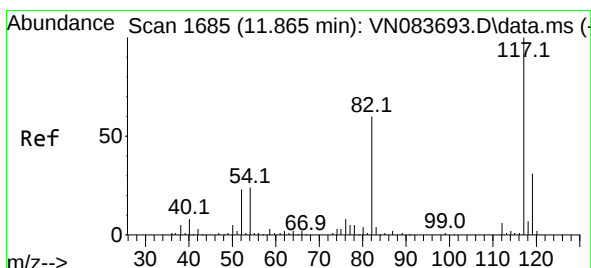
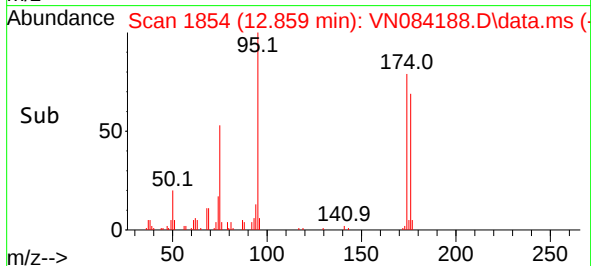
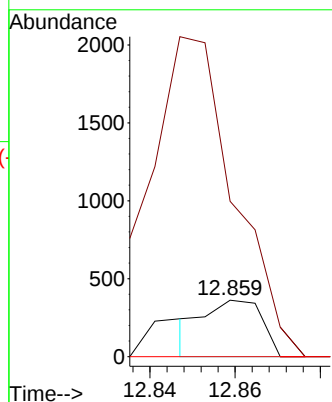
Tgt Ion:173 Resp: 339

Ion Ratio Lower Upper

173 100

175 871.4 40.0 60.0#

254 0.0 8.3 12.5#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN084188.D

Acq: 26 Sep 2024 19:52

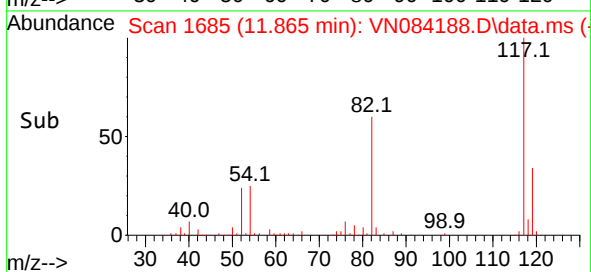
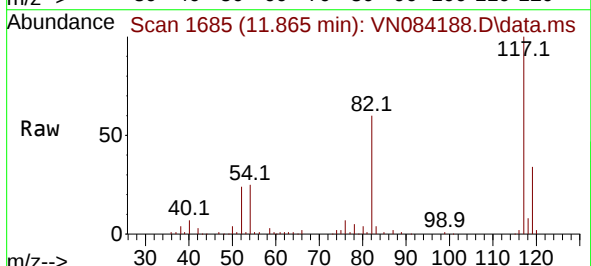
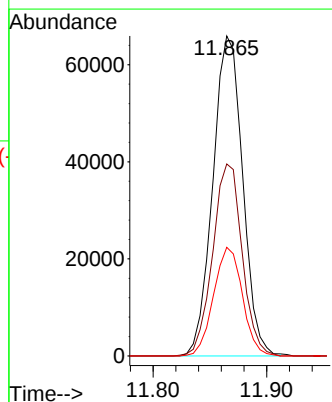
Tgt Ion:117 Resp: 120436

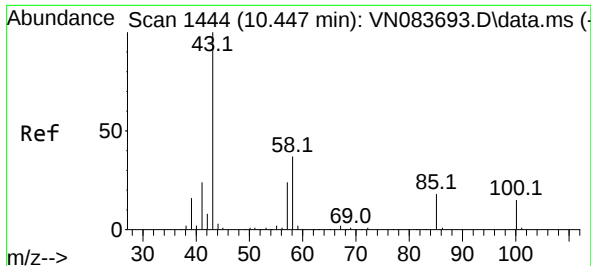
Ion Ratio Lower Upper

117 100

82 59.3 46.6 69.8

119 32.8 25.4 38.2





#58

4-Methyl-2-Pentanone

Concen: 0.333 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.118 min

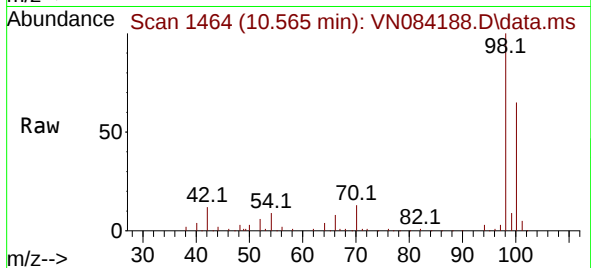
Lab File: VN084188.D

Acq: 26 Sep 2024 19:52

Instrument :

MSVOA_N

ClientSampleId :



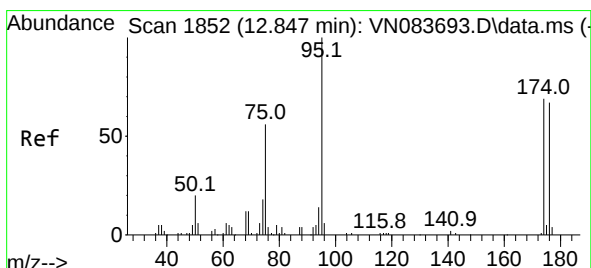
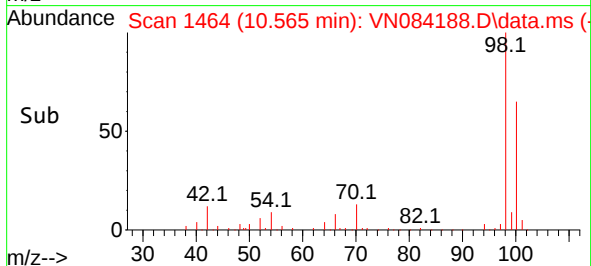
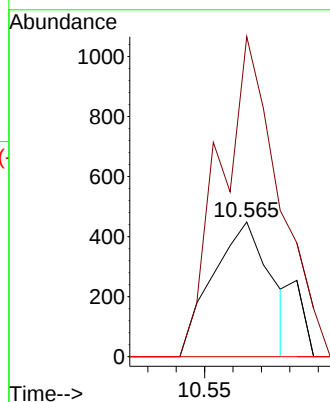
Tgt Ion: 43 Resp: 636

Ion Ratio Lower Upper

43 100

58 241.8 36.5 54.7#

85 0.0 19.5 29.3#



#60

4-Bromofluorobenzene

Concen: 24.204 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084188.D

Acq: 26 Sep 2024 19:52

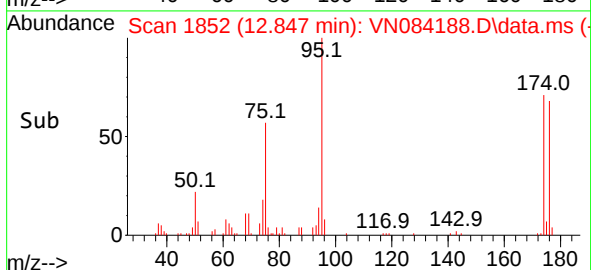
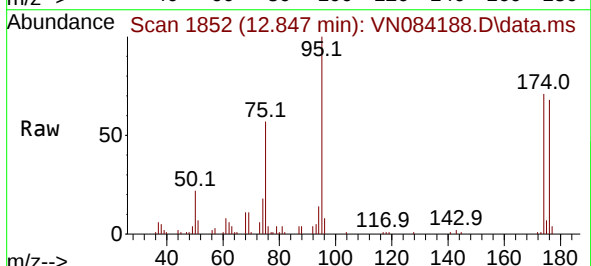
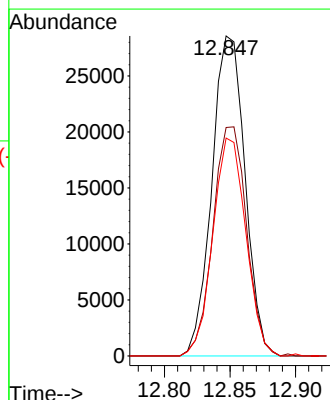
Tgt Ion: 95 Resp: 50239

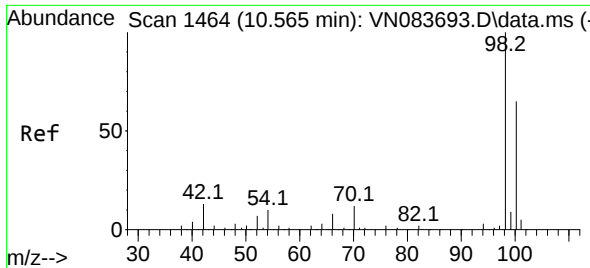
Ion Ratio Lower Upper

95 100

174 72.6 60.5 90.7

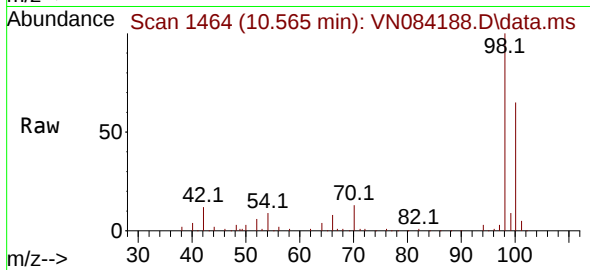
176 67.9 57.8 86.6



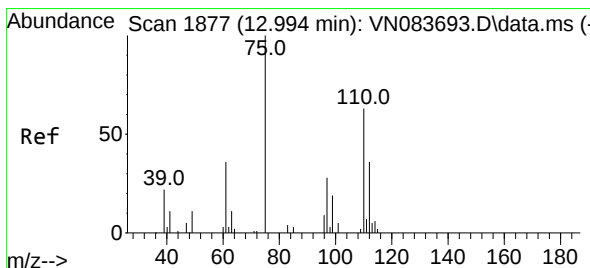
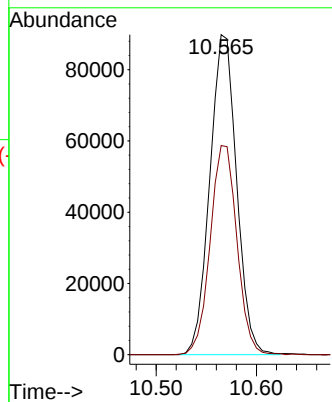
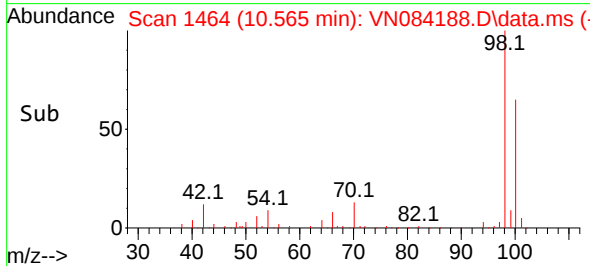


#63
Toluene-d8
Concen: 29.955 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084188.D
Acq: 26 Sep 2024 19:52

Instrument :
MSVOA_N
ClientSampleId :

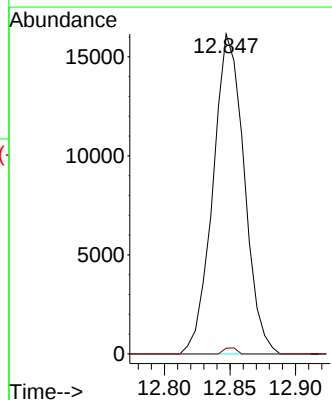
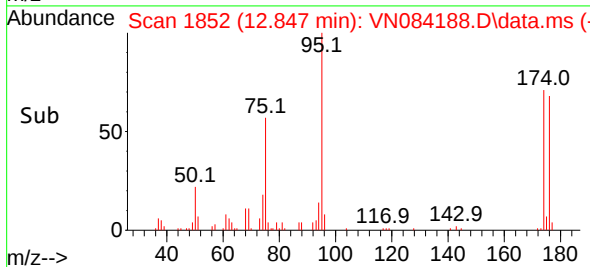
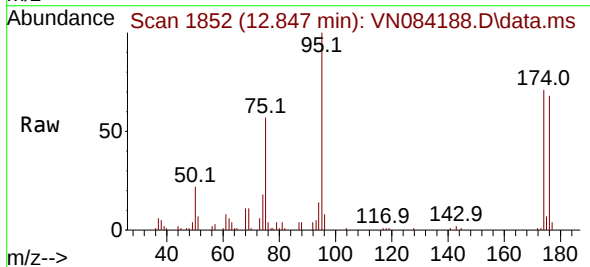


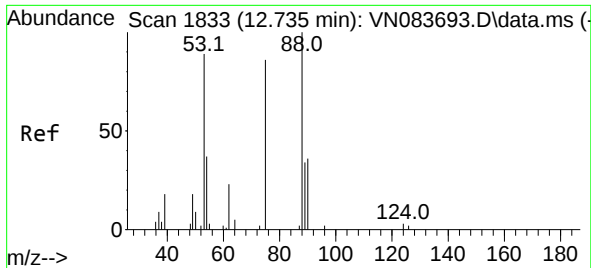
Tgt Ion: 98 Resp: 167050
Ion Ratio Lower Upper
98 100
100 65.1 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 15.104 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084188.D
Acq: 26 Sep 2024 19:52

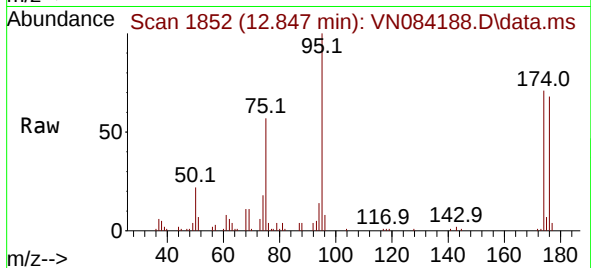
Tgt Ion: 75 Resp: 26755
Ion Ratio Lower Upper
75 100
77 0.8 0.0 367.6





#77
t-1,4-Dichloro-2-butene
Concen: 35.734 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN084188.D
Acq: 26 Sep 2024 19:52

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	75	Resp:	26755
Ion	Ratio	Lower	Upper
75	100		
53	0.0	45.9	137.7#
89	0.0	25.9	77.7#

