

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084064.D
 Acq On : 20 Sep 2024 12:20
 Operator : JC\MD
 Sample : P4110-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 23:24:57 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)

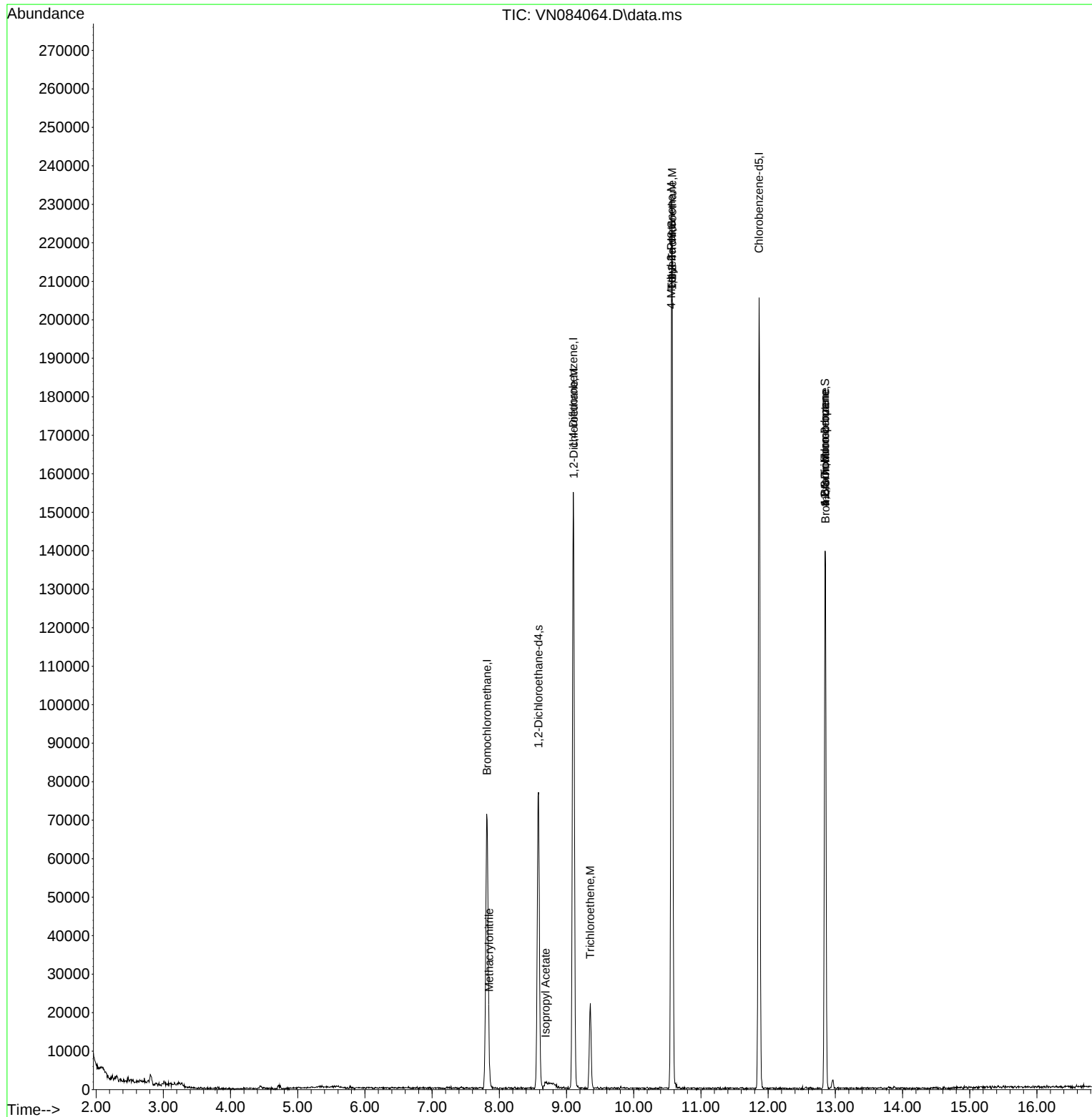
Internal Standards						
1) Bromochloromethane	7.818	128	23457	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	125642	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	110694	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	65227	30.421	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.400%
60) 4-Bromofluorobenzene	12.847	95	47125	24.701	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.333%
63) Toluene-d8	10.565	98	155429	30.324	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.067%
Target Compounds						
					Qvalue	
35) Methacrylonitrile	7.847	41	800	0.758	ug/l #	43
36) 1,2-Dichloroethane	9.106	62	5524	2.457	ug/l #	72
37) Trichloroethene	9.353	130	7293	5.194	ug/l	87
44) Isopropyl Acetate	8.688	43	841	0.257	ug/l #	43
50) 1,1,2-Trichloroethane	10.571	97	5019	3.748	ug/l #	1
56) Bromoform	12.853	173	283	0.277	ug/l #	1
58) 4-Methyl-2-Pentanone	10.559	43	449	0.256	ug/l #	38
72) 1,2,3-Trichloropropane	12.847	75	27350	16.799	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	27350	39.743	ug/l #	12

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

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Sample : P4110-02
Misc : 5.0mL/MSVOA_N/WATER
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Instrument :
MSVOA_N
ClientSampleId :

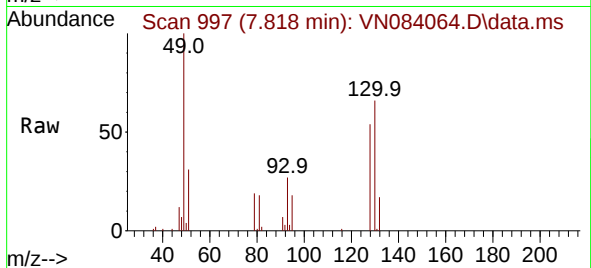
Quant Time: Sep 20 23:24:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 06 23:42:47 2024
Response via : Initial Calibration



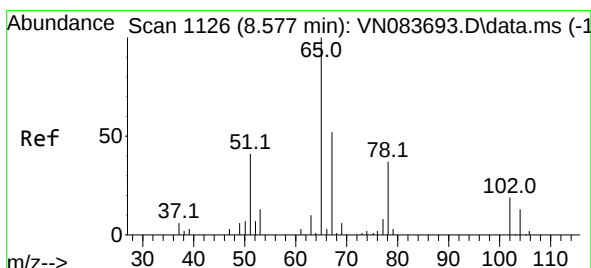
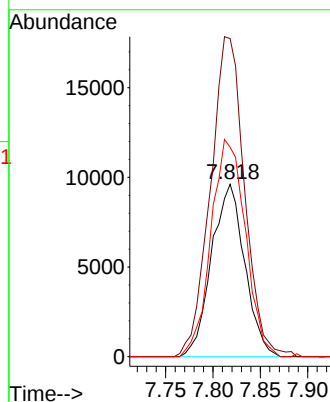
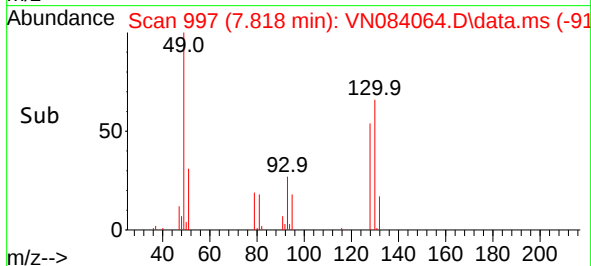


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN084064.D
Acq: 20 Sep 2024 12:20

Instrument :
MSVOA_N
ClientSampleId :

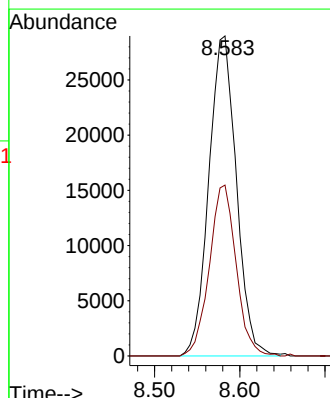
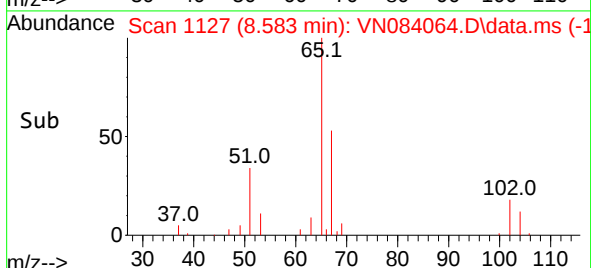
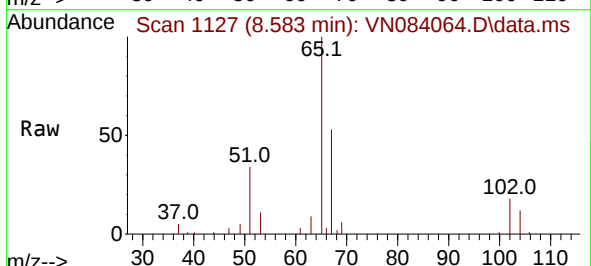


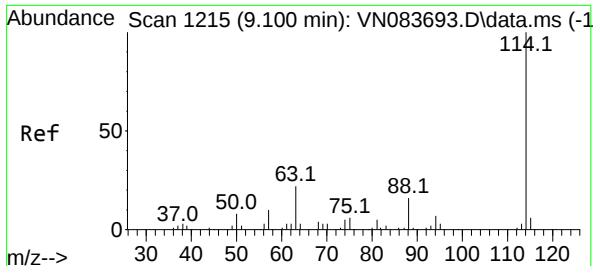
Tgt Ion:128 Resp: 23457
Ion Ratio Lower Upper
128 100
49 190.2 0.0 403.7
130 130.7 0.0 323.3



#27
1,2-Dichloroethane-d4
Concen: 30.421 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN084064.D
Acq: 20 Sep 2024 12:20

Tgt Ion: 65 Resp: 65227
Ion Ratio Lower Upper
65 100
67 51.8 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: VN084064.D

Acq: 20 Sep 2024 12:20

Instrument :

MSVOA_N

ClientSampleId :

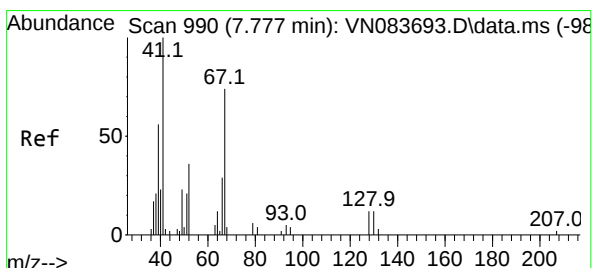
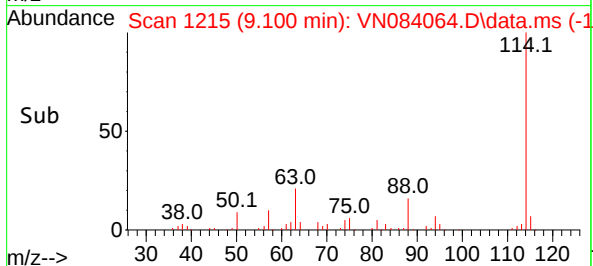
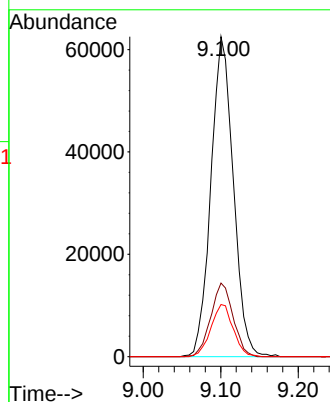
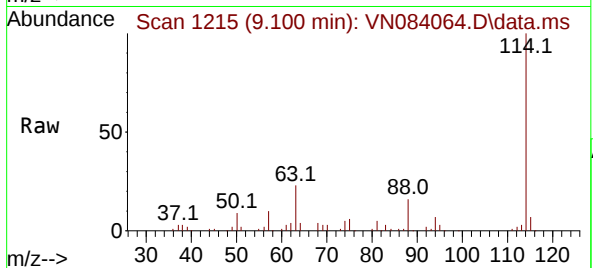
Tgt Ion:114 Resp: 125642

Ion Ratio Lower Upper

114 100

63 22.9 15.9 23.9

88 16.2 12.7 19.1



#35

Methacrylonitrile

Concen: 0.758 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. 0.071 min

Lab File: VN084064.D

Acq: 20 Sep 2024 12:20

Tgt Ion: 41 Resp: 800

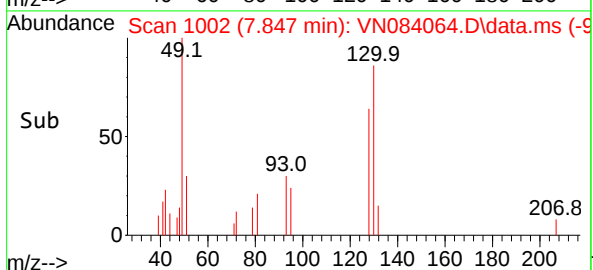
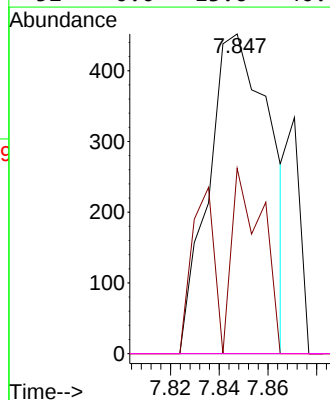
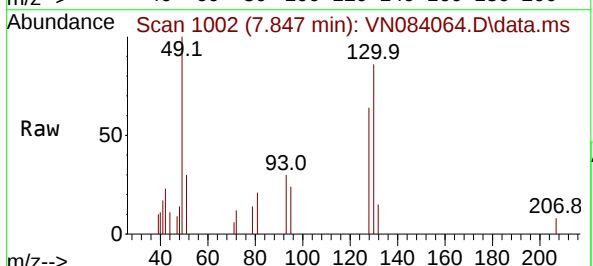
Ion Ratio Lower Upper

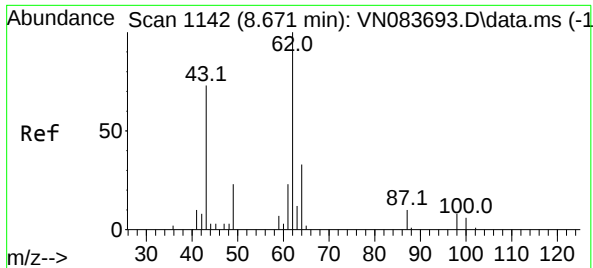
41 100

39 58.0 25.3 75.9

67 0.0 38.7 116.1#

52 0.0 13.6 40.8#





#36

1,2-Dichloroethane

Concen: 2.457 ug/l

RT: 9.106 min Scan# 1142

Delta R.T. 0.435 min

Lab File: VN084064.D

Acq: 20 Sep 2024 12:20

Instrument :

MSVOA_N

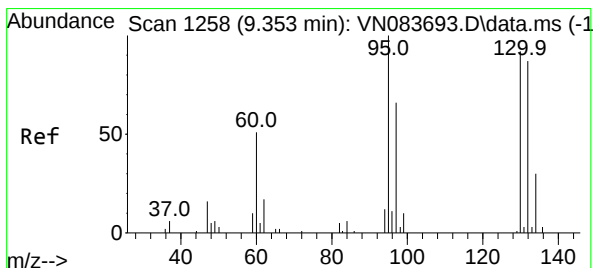
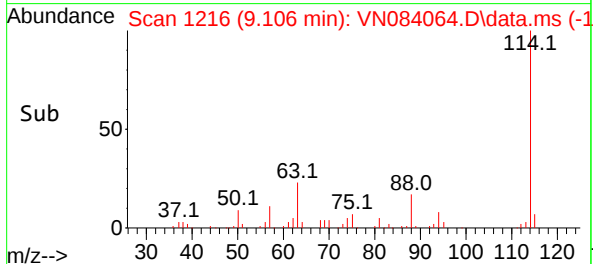
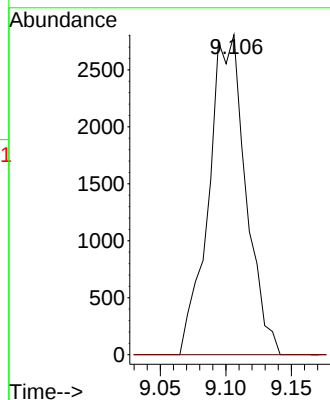
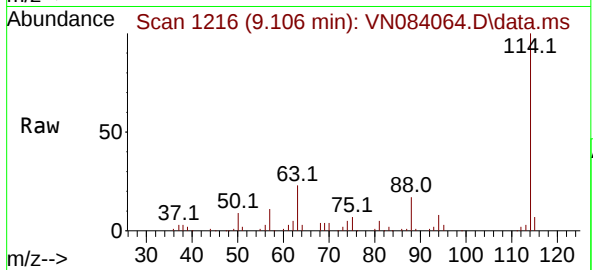
ClientSampleId :

Tgt Ion: 62 Resp: 5524

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#37

Trichloroethene

Concen: 5.194 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN084064.D

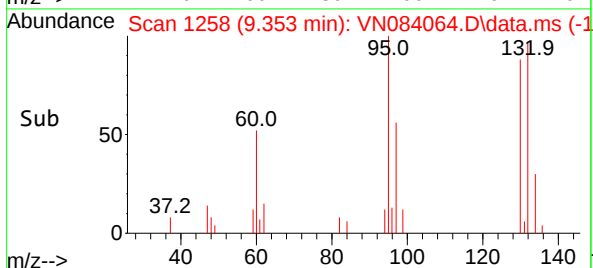
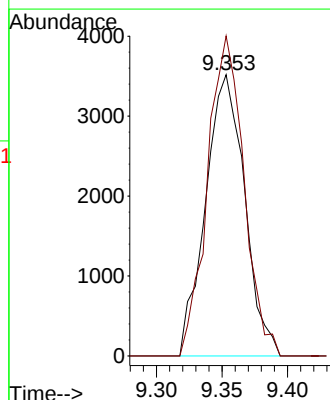
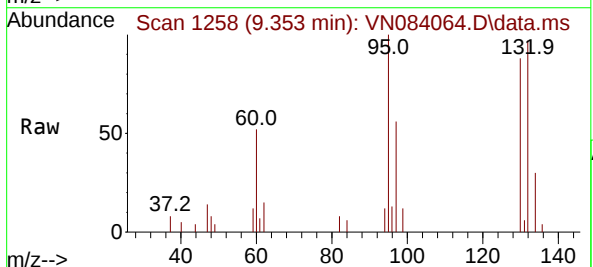
Acq: 20 Sep 2024 12:20

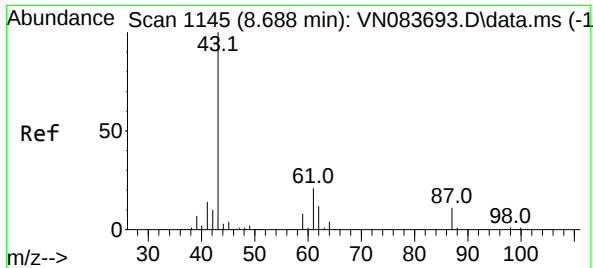
Tgt Ion:130 Resp: 7293

Ion Ratio Lower Upper

130 100

95 113.8 80.2 120.4

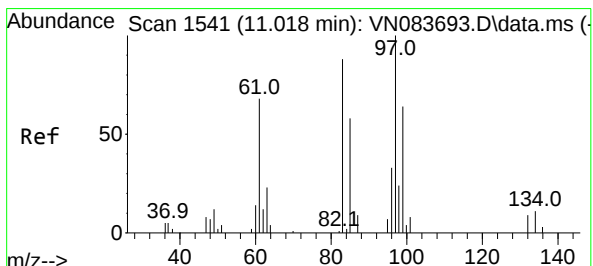
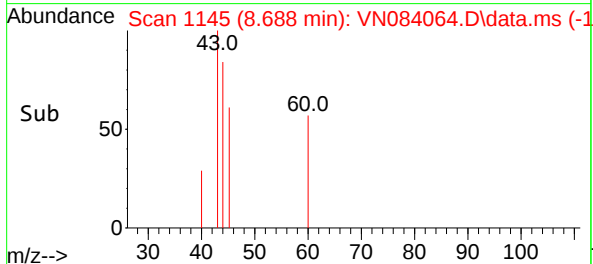
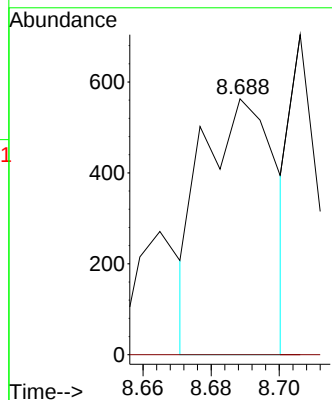
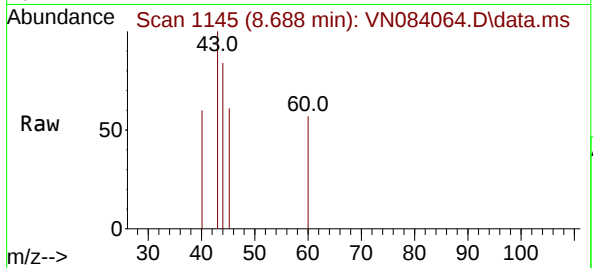




#44
Isopropyl Acetate
Concen: 0.257 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084064.D
Acq: 20 Sep 2024 12:20

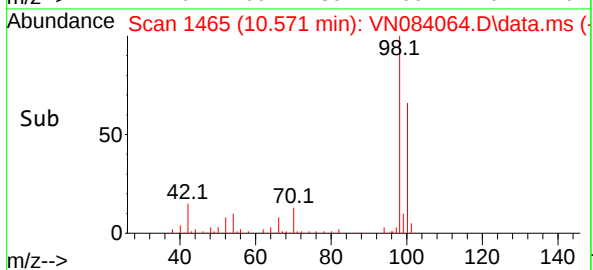
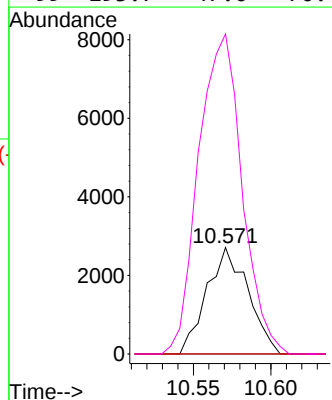
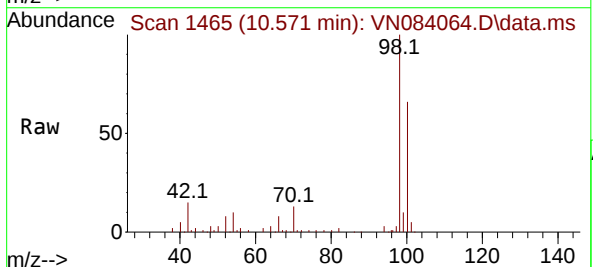
Instrument :
MSVOA_N
ClientSampleId :

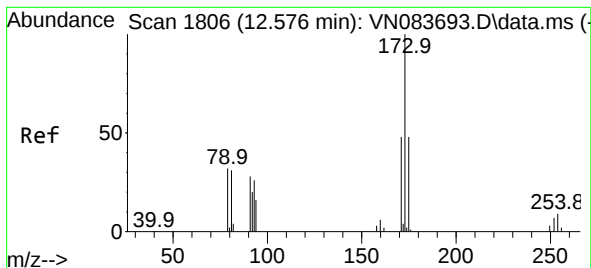
Tgt Ion: 43 Resp: 841
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.4#



#50
1,1,2-Trichloroethane
Concen: 3.748 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.447 min
Lab File: VN084064.D
Acq: 20 Sep 2024 12:20

Tgt Ion: 97 Resp: 5019
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 41.8 62.6#
99 293.7 47.0 70.4#





#56

Bromoform

Concen: 0.277 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.277 min

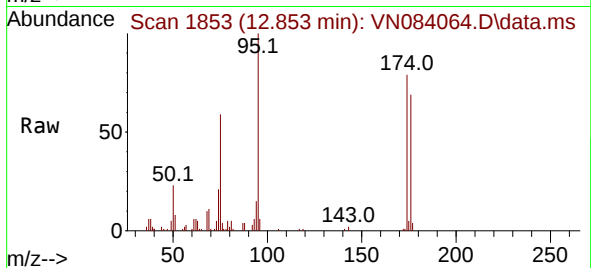
Lab File: VN084064.D

Acq: 20 Sep 2024 12:20

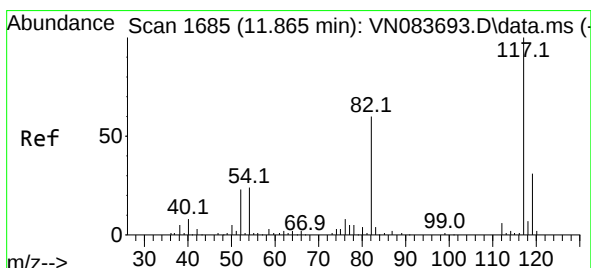
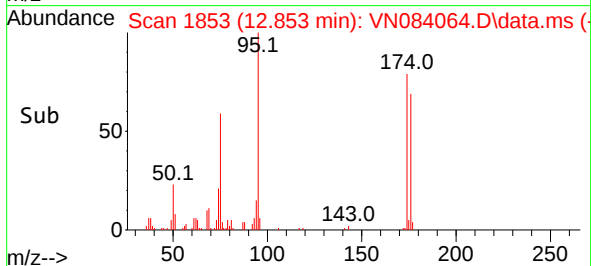
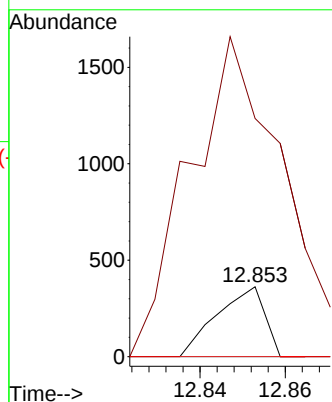
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	283
Ion Ratio	Lower	Upper	
173	100		
175	887.3	40.0	60.0#
254	0.0	8.3	12.5#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

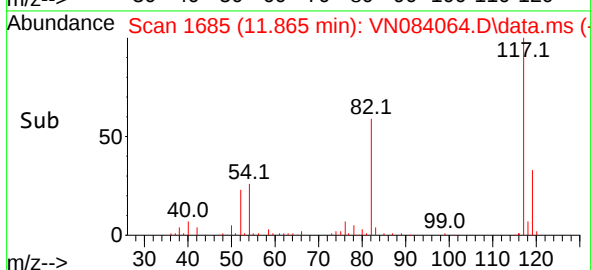
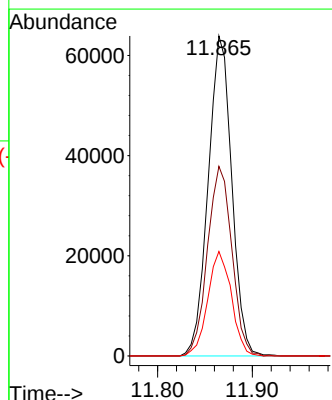
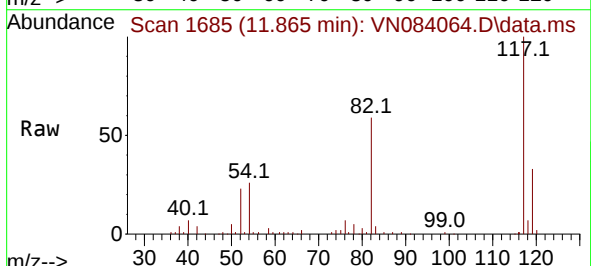
RT: 11.865 min Scan# 1685

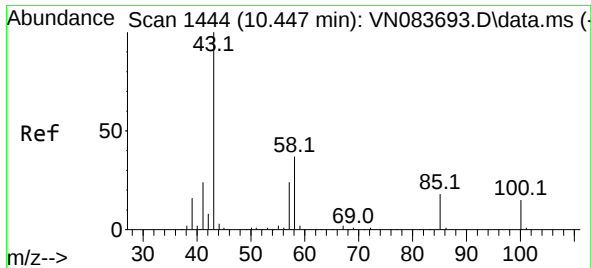
Delta R.T. 0.000 min

Lab File: VN084064.D

Acq: 20 Sep 2024 12:20

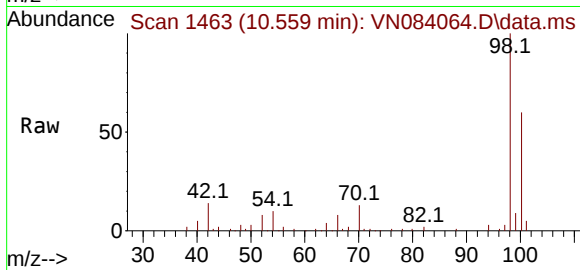
Tgt Ion:	117	Resp:	110694
Ion Ratio	Lower	Upper	
117	100		
82	61.2	46.6	69.8
119	32.7	25.4	38.2



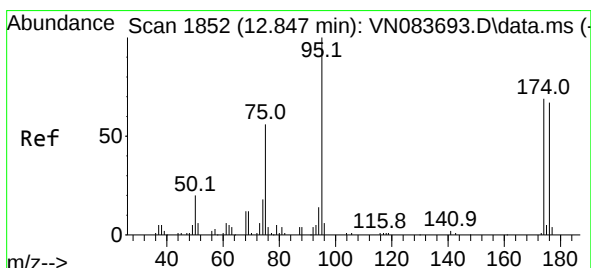
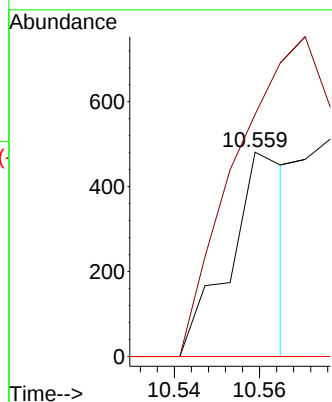
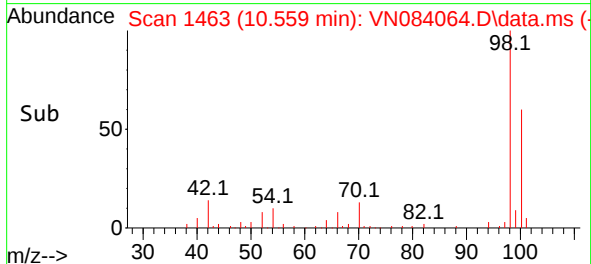


#58
4-Methyl-2-Pentanone
Concen: 0.256 ug/l
RT: 10.559 min Scan# 1444
Delta R.T. 0.112 min
Lab File: VN084064.D
Acq: 20 Sep 2024 12:20

Instrument :
MSVOA_N
ClientSampleId :

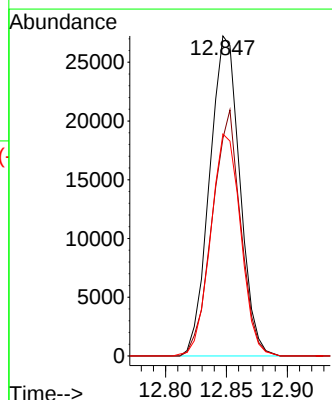
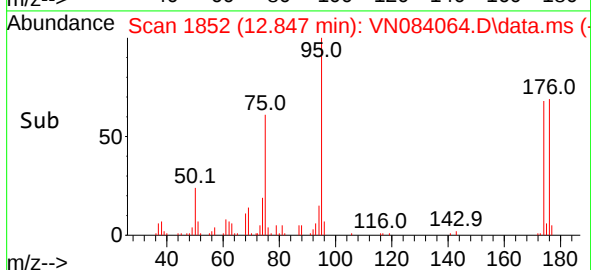
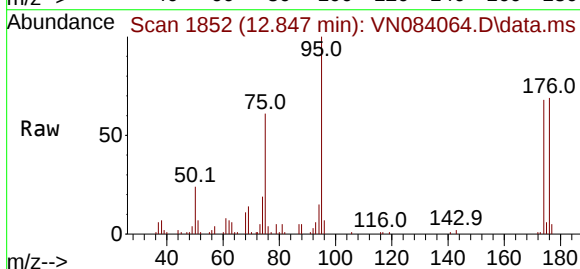


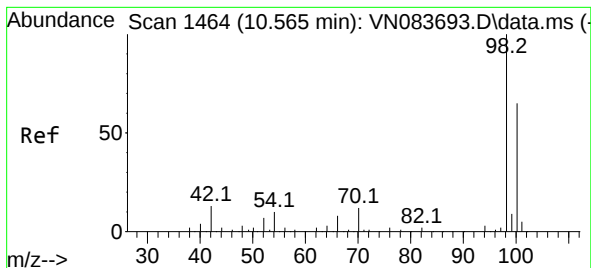
Tgt Ion: 43 Resp: 449
Ion Ratio Lower Upper
43 100
58 0.0 36.5 54.7#
85 0.0 19.5 29.3#



#60
4-Bromofluorobenzene
Concen: 24.701 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084064.D
Acq: 20 Sep 2024 12:20

Tgt Ion: 95 Resp: 47125
Ion Ratio Lower Upper
95 100
174 72.2 60.5 90.7
176 69.1 57.8 86.6





#63

Toluene-d8

Concen: 30.324 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084064.D

Acq: 20 Sep 2024 12:20

Instrument :

MSVOA_N

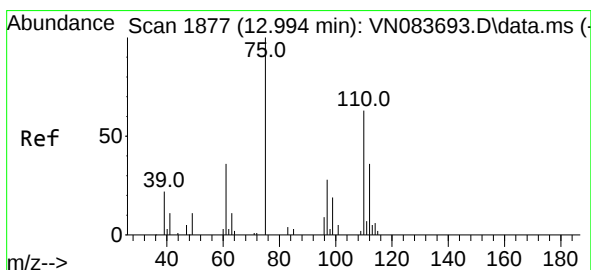
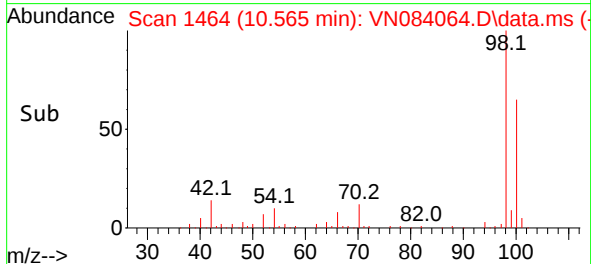
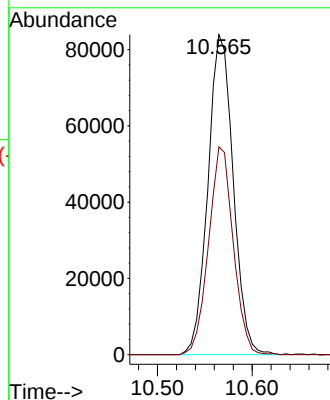
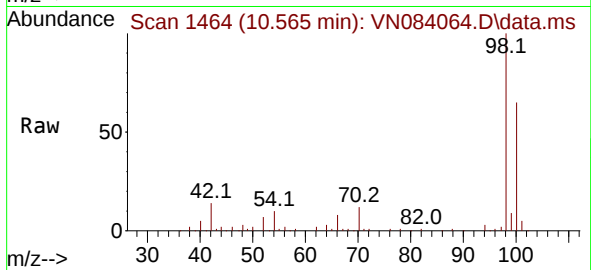
ClientSampleId :

Tgt Ion: 98 Resp: 155429

Ion Ratio Lower Upper

98 100

100 63.3 52.7 79.1



#72

1,2,3-Trichloropropane

Concen: 16.799 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN084064.D

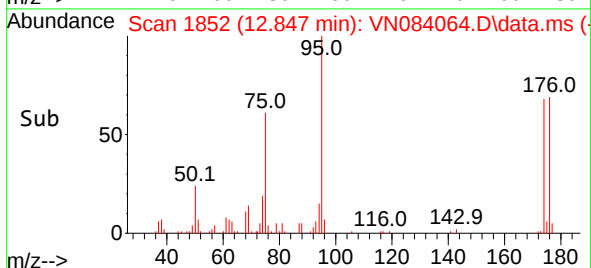
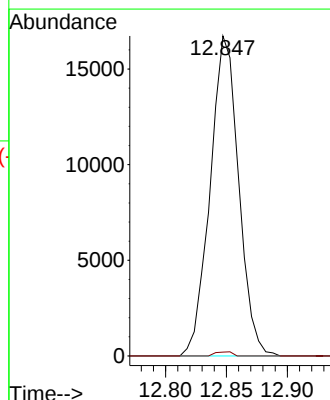
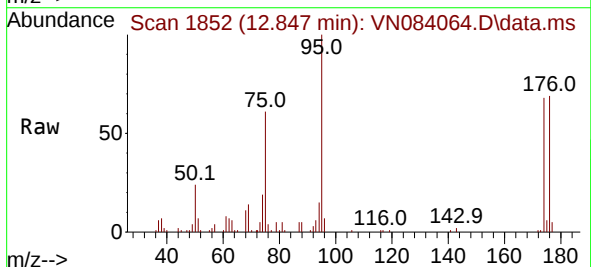
Acq: 20 Sep 2024 12:20

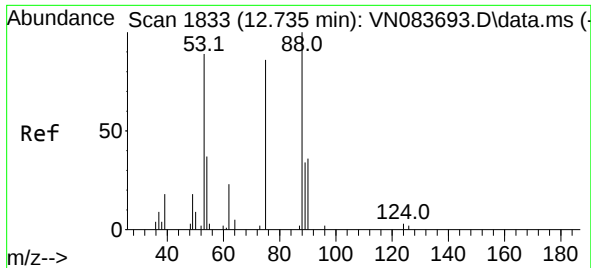
Tgt Ion: 75 Resp: 27350

Ion Ratio Lower Upper

75 100

77 0.8 0.0 367.6





#77

t-1,4-Dichloro-2-butene

Concen: 39.743 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

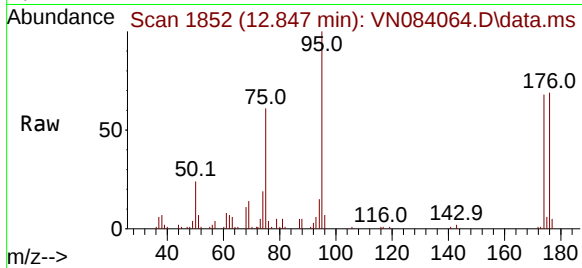
Lab File: VN084064.D

Acq: 20 Sep 2024 12:20

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75 Resp: 27350

Ion Ratio Lower Upper

75 100

53 0.0 45.9 137.7#

89 0.0 25.9 77.7#

