

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
 Data File : VN079591.D
 Acq On : 17 Oct 2023 19:09
 Operator : JC\MD
 Sample : 04934-03 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 02:34:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

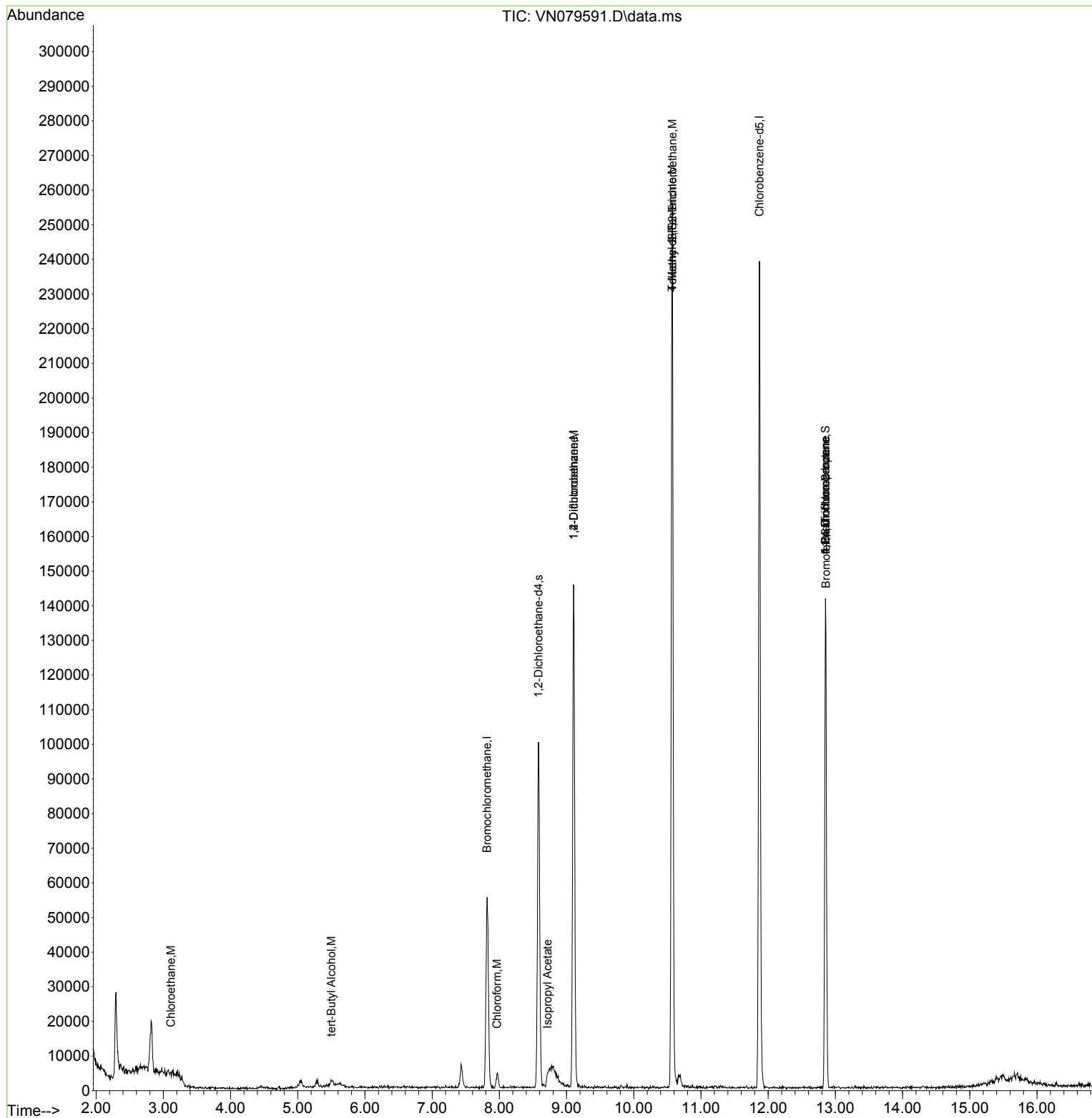
Internal Standards						
1) Bromochloromethane	7.818	128	19058	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	120277	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	137919	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	81703	30.153	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.500%
60) 4-Bromofluorobenzene	12.853	95	48503	19.231	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	64.100%
63) Toluene-d8	10.571	98	176636	29.888	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.633%
Target Compounds						
					Qvalue	
6) Chloroethane	3.112	64	751	0.276	ug/l	99
23) tert-Butyl Alcohol	5.500	59	639	1.289	ug/l #	100
25) Chloroform	7.965	83	4256	0.738	ug/l	99
36) 1,2-Dichloroethane	9.106	62	4589	1.204	ug/l #	75
44) Isopropyl Acetate	8.718	43	1861	0.316	ug/l #	1
50) 1,1,2-Trichloroethane	10.576	97	6624	2.582	ug/l #	1
56) Bromoform	12.859	173	548	0.316	ug/l #	1
58) 4-Methyl-2-Pentanone	10.571	43	1162	0.361	ug/l #	70
72) 1,2,3-Trichloropropane	12.853	75	26968	8.475	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.853	75	26968	27.768	ug/l #	7

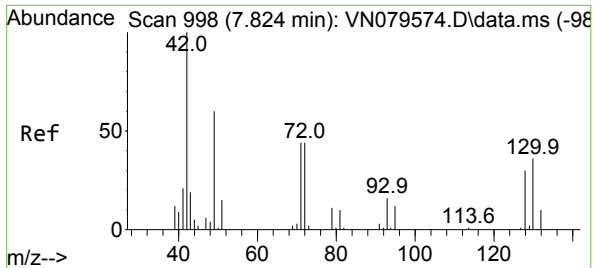
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
ClientSampleId :

Quant Time: Oct 18 02:34:25 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 18 02:19:15 2023
Response via : Initial Calibration

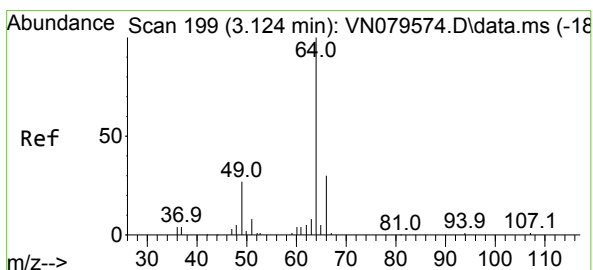
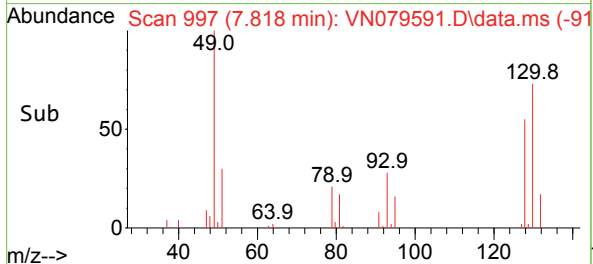
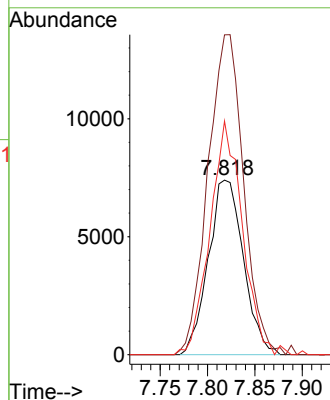
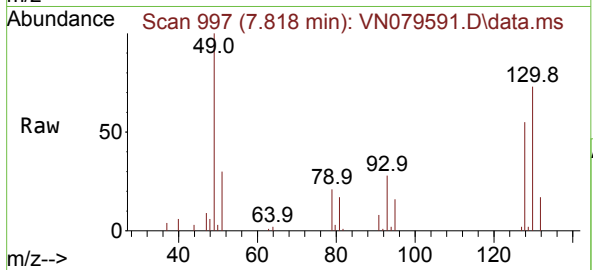




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN079591.D
Acq: 17 Oct 2023 19:09

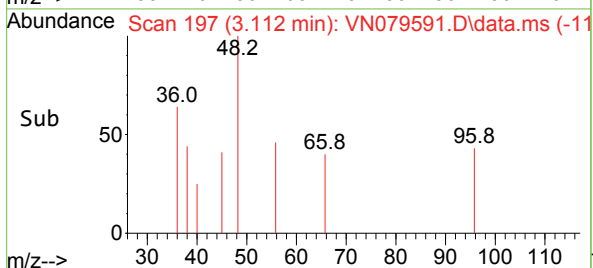
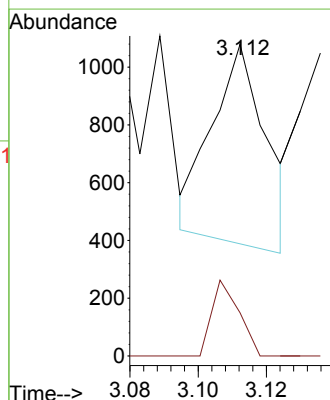
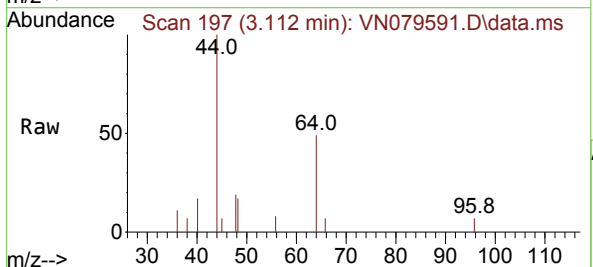
Instrument :
MSVOA_N
ClientSampleId :

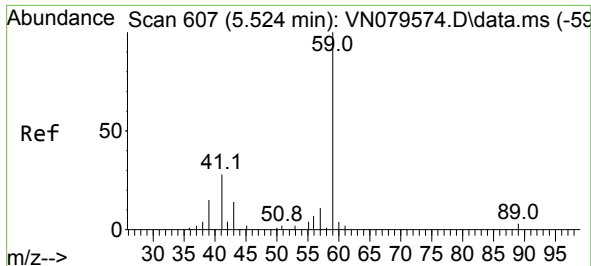
Tgt Ion:128 Resp: 19058
Ion Ratio Lower Upper
128 100
49 185.8 0.0 468.5
130 123.2 0.0 320.7



#6
Chloroethane
Concen: 0.276 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.012 min
Lab File: VN079591.D
Acq: 17 Oct 2023 19:09

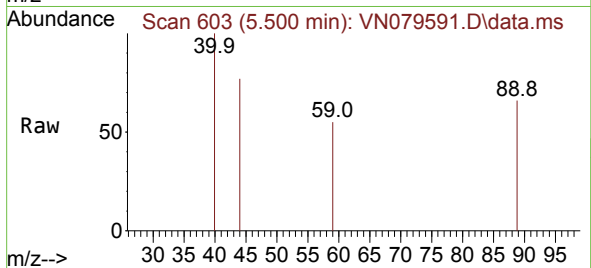
Tgt Ion: 64 Resp: 751
Ion Ratio Lower Upper
64 100
66 28.7 23.3 34.9



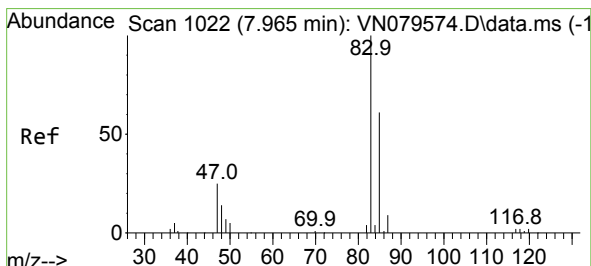
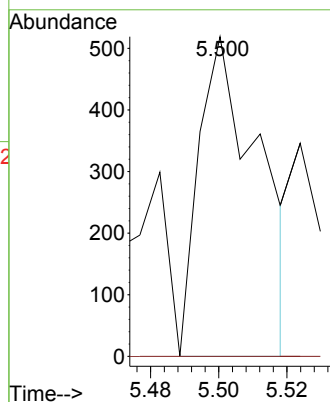
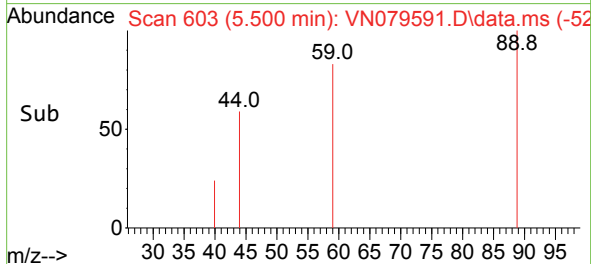


#23
tert-Butyl Alcohol
Concen: 1.289 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.023 min
Lab File: VN079591.D
Acq: 17 Oct 2023 19:09

Instrument :
MSVOA_N
ClientSampleId :

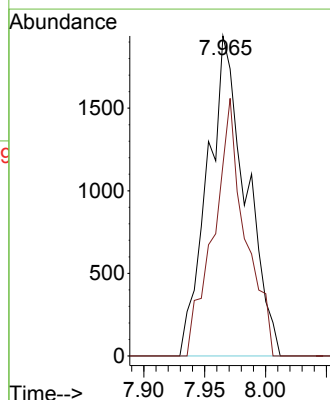
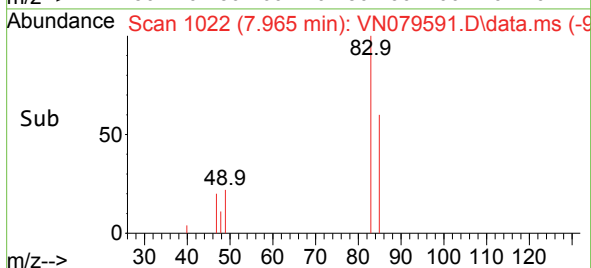
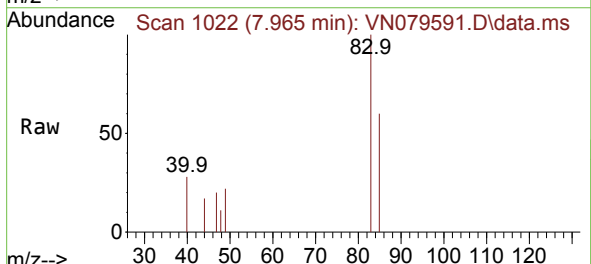


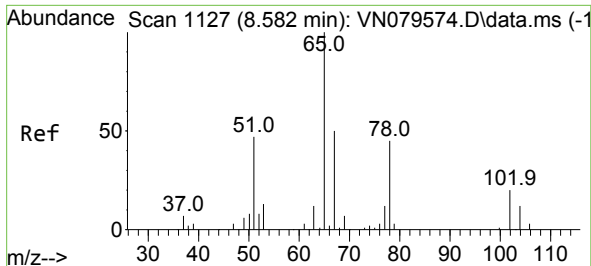
Tgt Ion: 59 Resp: 639
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 0.738 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN079591.D
Acq: 17 Oct 2023 19:09

Tgt Ion: 83 Resp: 4256
Ion Ratio Lower Upper
83 100
85 59.7 47.4 71.2





#27

1,2-Dichloroethane-d4

Concen: 30.153 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079591.D

Acq: 17 Oct 2023 19:09

Instrument :

MSVOA_N

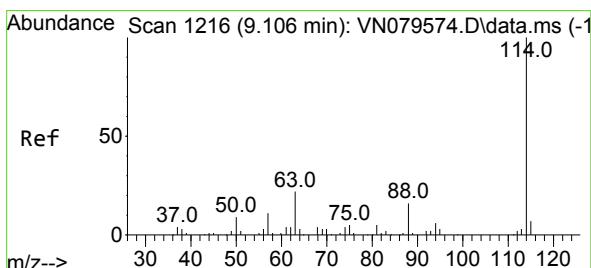
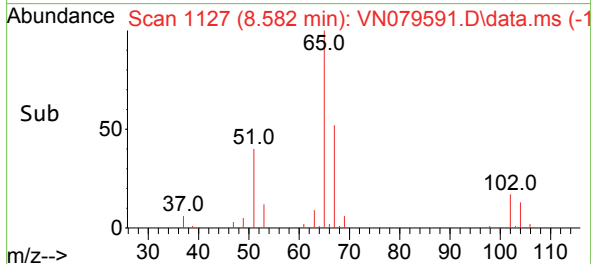
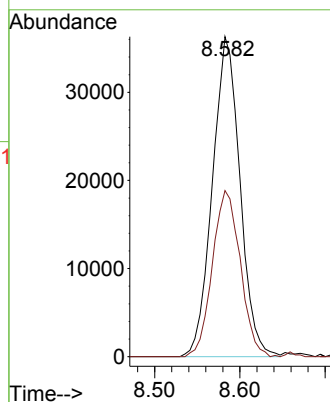
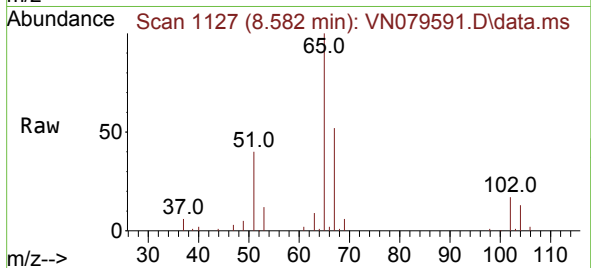
ClientSampleId :

Tgt Ion: 65 Resp: 81703

Ion Ratio Lower Upper

65 100

67 52.5 42.1 63.1



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079591.D

Acq: 17 Oct 2023 19:09

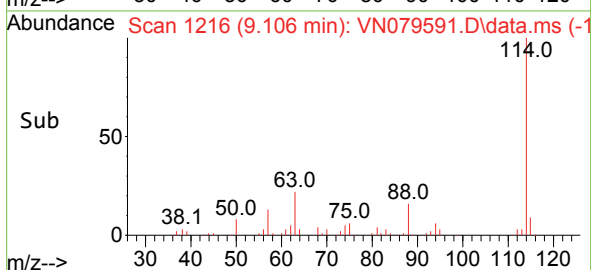
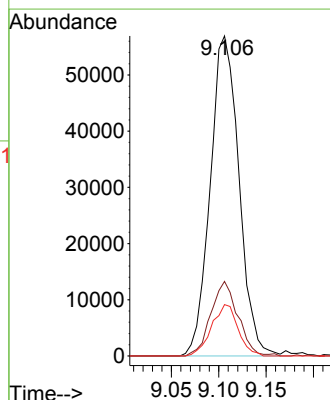
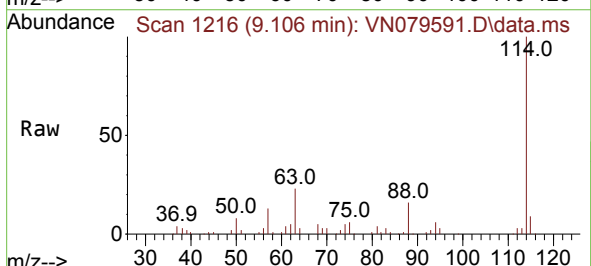
Tgt Ion: 114 Resp: 120277

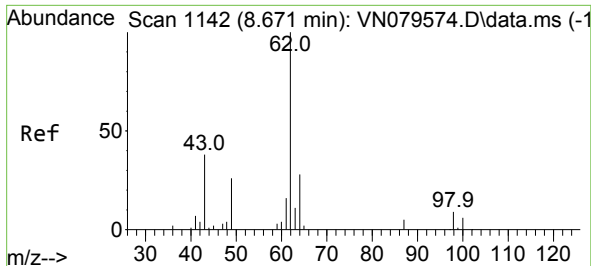
Ion Ratio Lower Upper

114 100

63 21.9 18.1 27.1

88 14.8 12.2 18.2

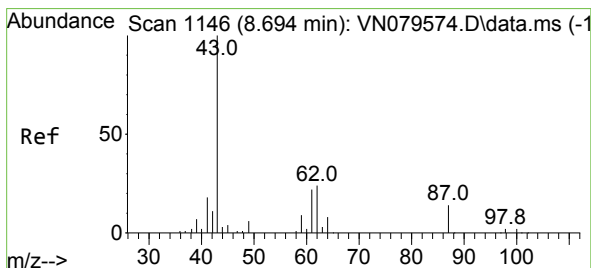
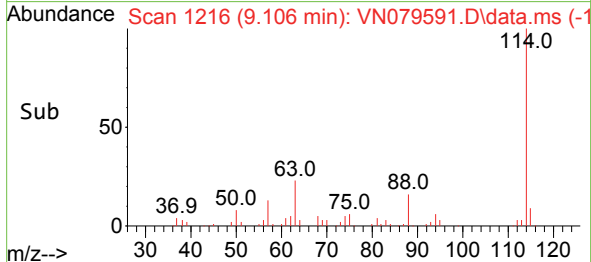
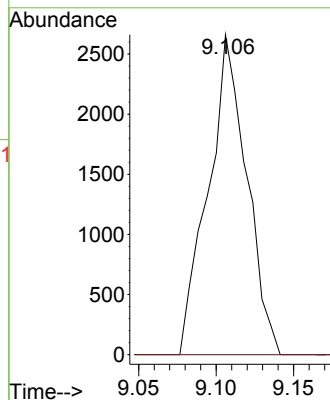
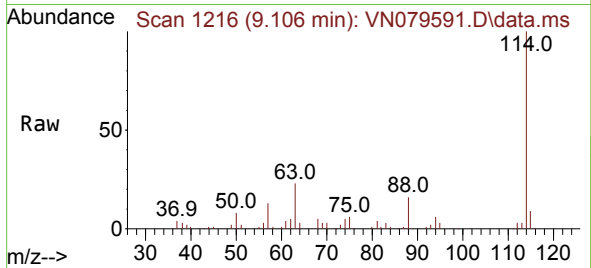




#36
1,2-Dichloroethane
Concen: 1.204 ug/l
RT: 9.106 min Scan# 1150
Delta R.T. 0.435 min
Lab File: VN079591.D
Acq: 17 Oct 2023 19:09

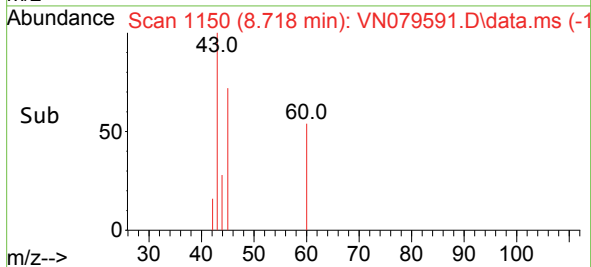
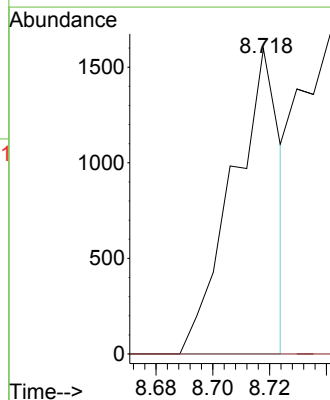
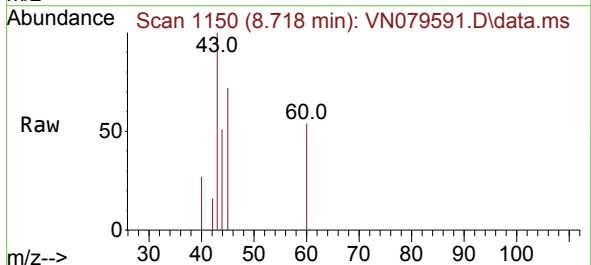
Instrument :
MSVOA_N
ClientSampleId :

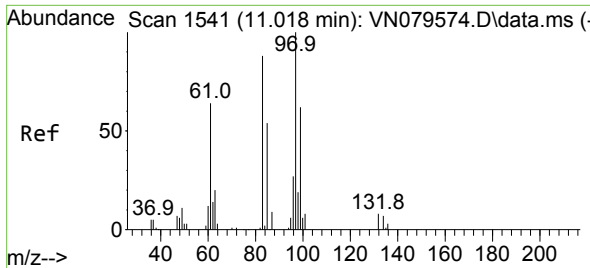
Tgt Ion: 62 Resp: 4589
Ion Ratio Lower Upper
62 100
98 0.0 7.2 10.8#



#44
Isopropyl Acetate
Concen: 0.316 ug/l
RT: 8.718 min Scan# 1150
Delta R.T. 0.024 min
Lab File: VN079591.D
Acq: 17 Oct 2023 19:09

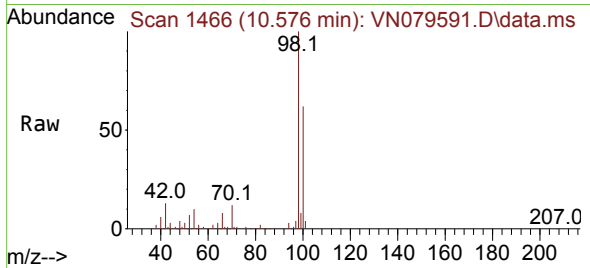
Tgt Ion: 43 Resp: 1861
Ion Ratio Lower Upper
43 100
61 85.0 20.3 30.5#



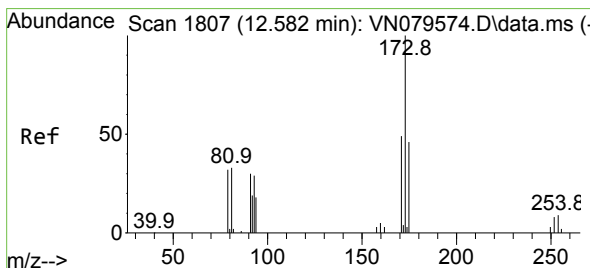
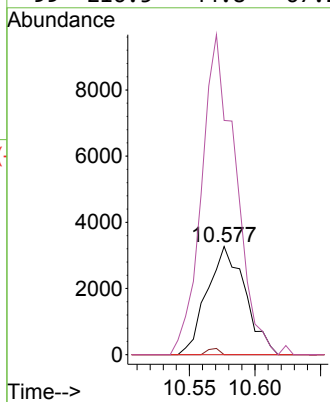
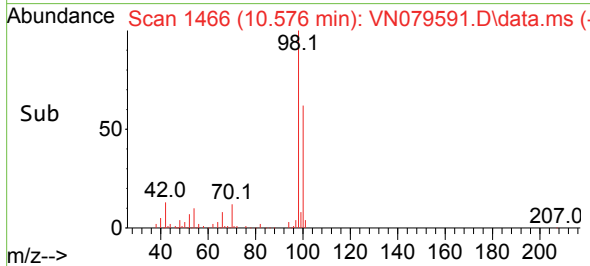


#50
1,1,2-Trichloroethane
Concen: 2.582 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.441 min
Lab File: VN079591.D
Acq: 17 Oct 2023 19:09

Instrument :
MSVOA_N
ClientSampleId :

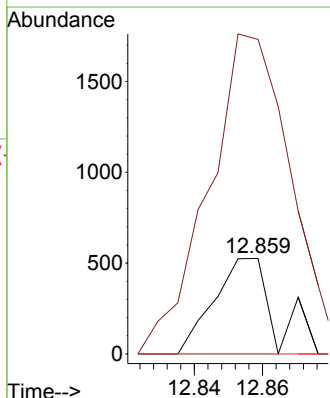
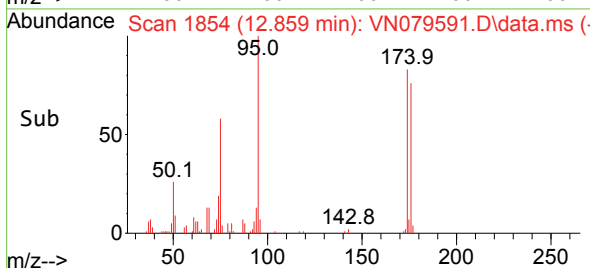
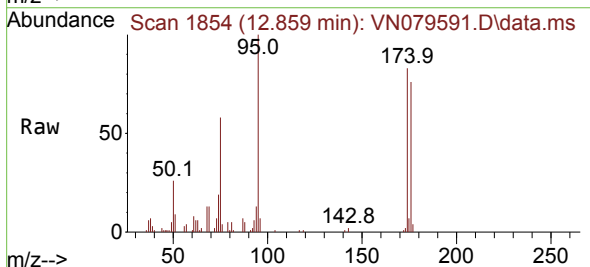


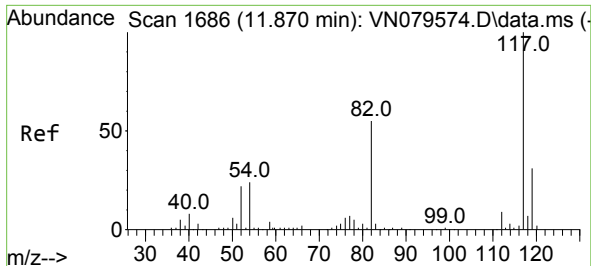
Tgt Ion: 97 Resp: 6624
Ion Ratio Lower Upper
97 100
83 0.0 68.2 102.4#
85 0.0 42.9 64.3#
99 216.5 44.8 67.2#



#56
Bromoform
Concen: 0.316 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.277 min
Lab File: VN079591.D
Acq: 17 Oct 2023 19:09

Tgt Ion:173 Resp: 548
Ion Ratio Lower Upper
173 100
175 533.2 37.9 56.9#
254 0.0 7.3 10.9#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN079591.D

Acq: 17 Oct 2023 19:09

Instrument :

MSVOA_N

ClientSampleId :

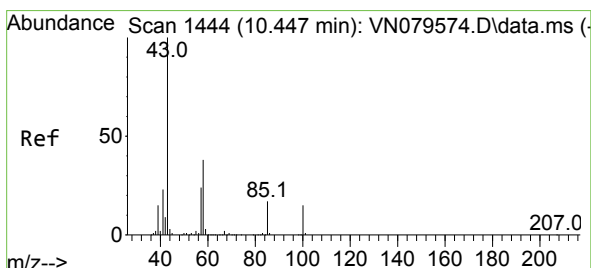
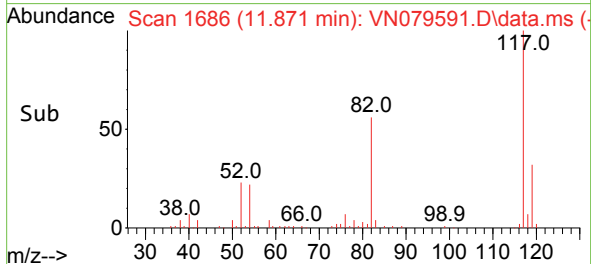
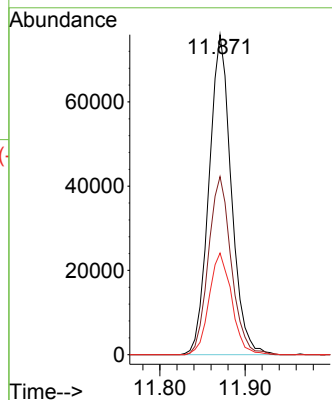
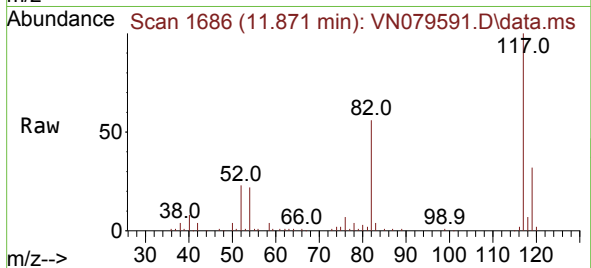
Tgt Ion:117 Resp: 137919

Ion Ratio Lower Upper

117 100

82 57.0 46.2 69.2

119 32.3 25.2 37.8



#58

4-Methyl-2-Pentanone

Concen: 0.361 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.124 min

Lab File: VN079591.D

Acq: 17 Oct 2023 19:09

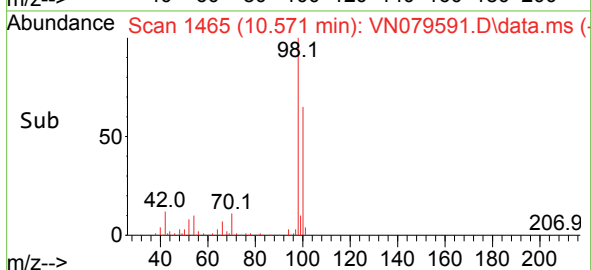
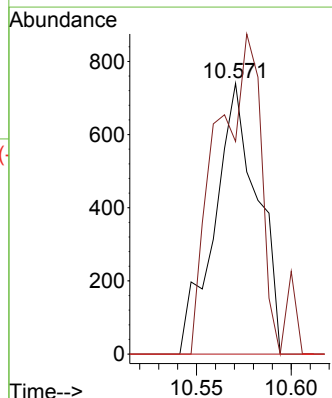
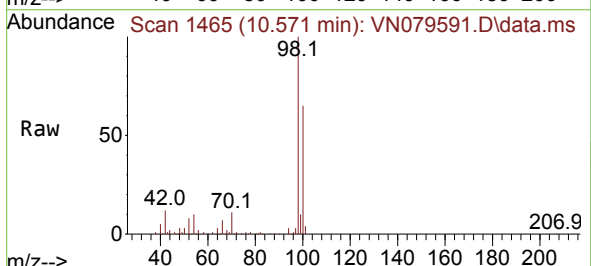
Tgt Ion: 43 Resp: 1162

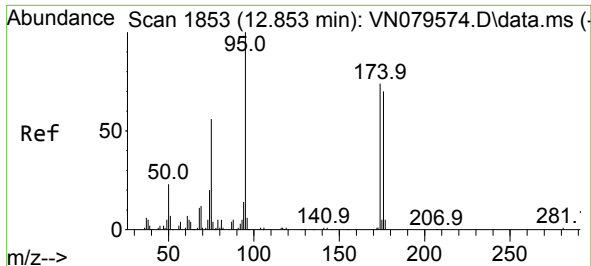
Ion Ratio Lower Upper

43 100

58 54.2 30.4 45.6#

85 0.0 13.2 19.8#

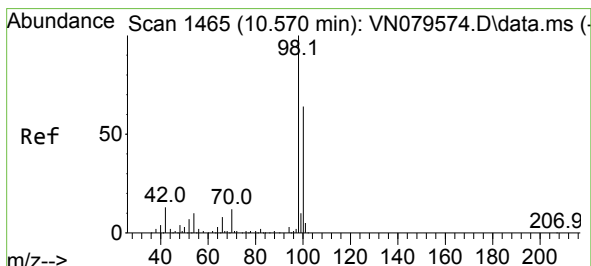
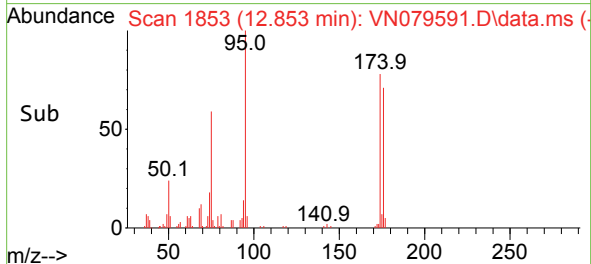
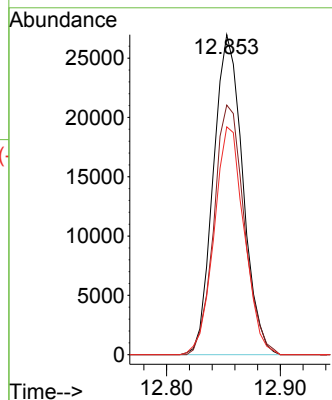
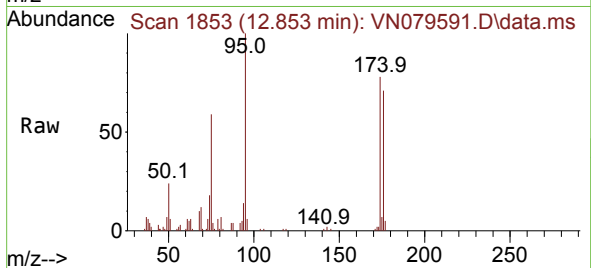




#60
4-Bromofluorobenzene
Concen: 19.231 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079591.D
Acq: 17 Oct 2023 19:09

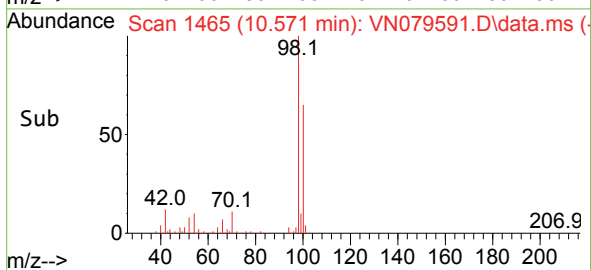
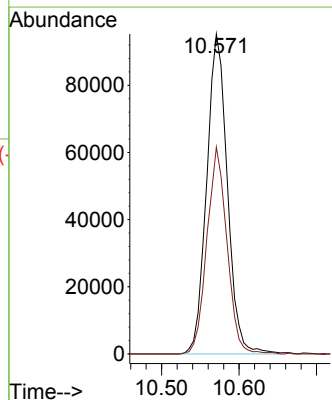
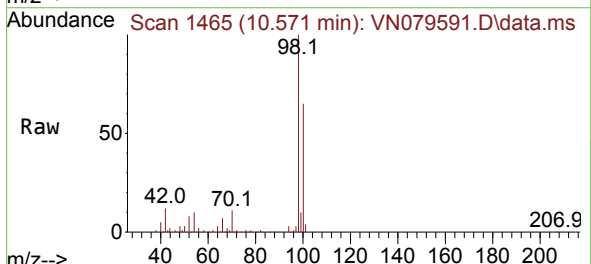
Instrument :
MSVOA_N
ClientSampleId :

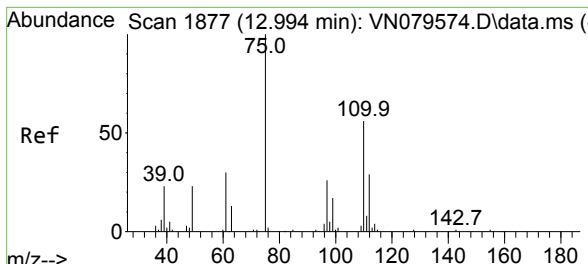
Tgt Ion: 95 Resp: 48503
Ion Ratio Lower Upper
95 100
174 80.3 60.5 90.7
176 72.9 57.2 85.8



#63
Toluene-d8
Concen: 29.888 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079591.D
Acq: 17 Oct 2023 19:09

Tgt Ion: 98 Resp: 176636
Ion Ratio Lower Upper
98 100
100 62.6 51.6 77.4

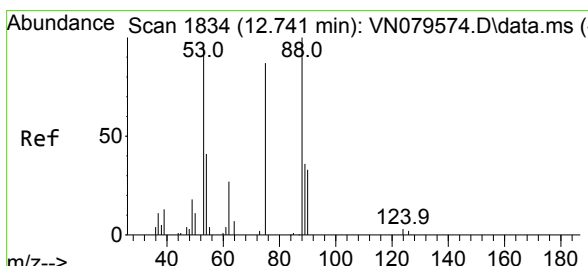
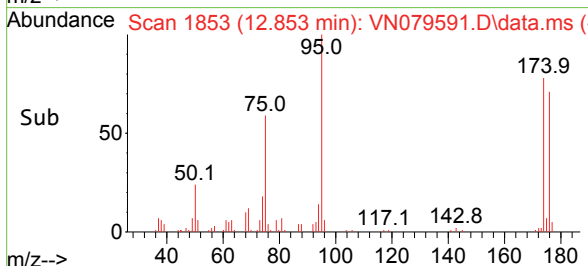
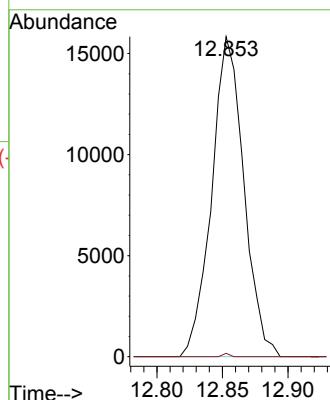
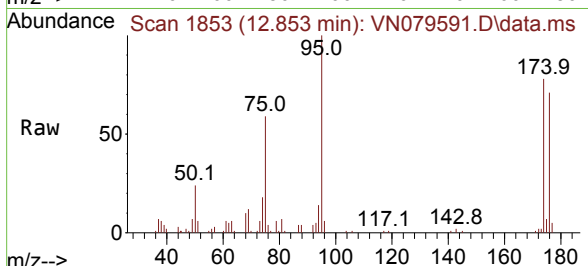




#72
 1,2,3-Trichloropropane
 Concen: 8.475 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.141 min
 Lab File: VN079591.D
 Acq: 17 Oct 2023 19:09

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 75 Resp: 26968
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 338.2



#77
 t-1,4-Dichloro-2-butene
 Concen: 27.768 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN079591.D
 Acq: 17 Oct 2023 19:09

Tgt Ion: 75 Resp: 26968
 Ion Ratio Lower Upper
 75 100
 53 0.0 53.0 159.1#
 89 0.0 22.6 67.7#

