

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102523\
 Data File : VN079686.D
 Acq On : 25 Oct 2023 17:01
 Operator : JC\MD
 Sample : 05054-04 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 26 01:38:23 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)

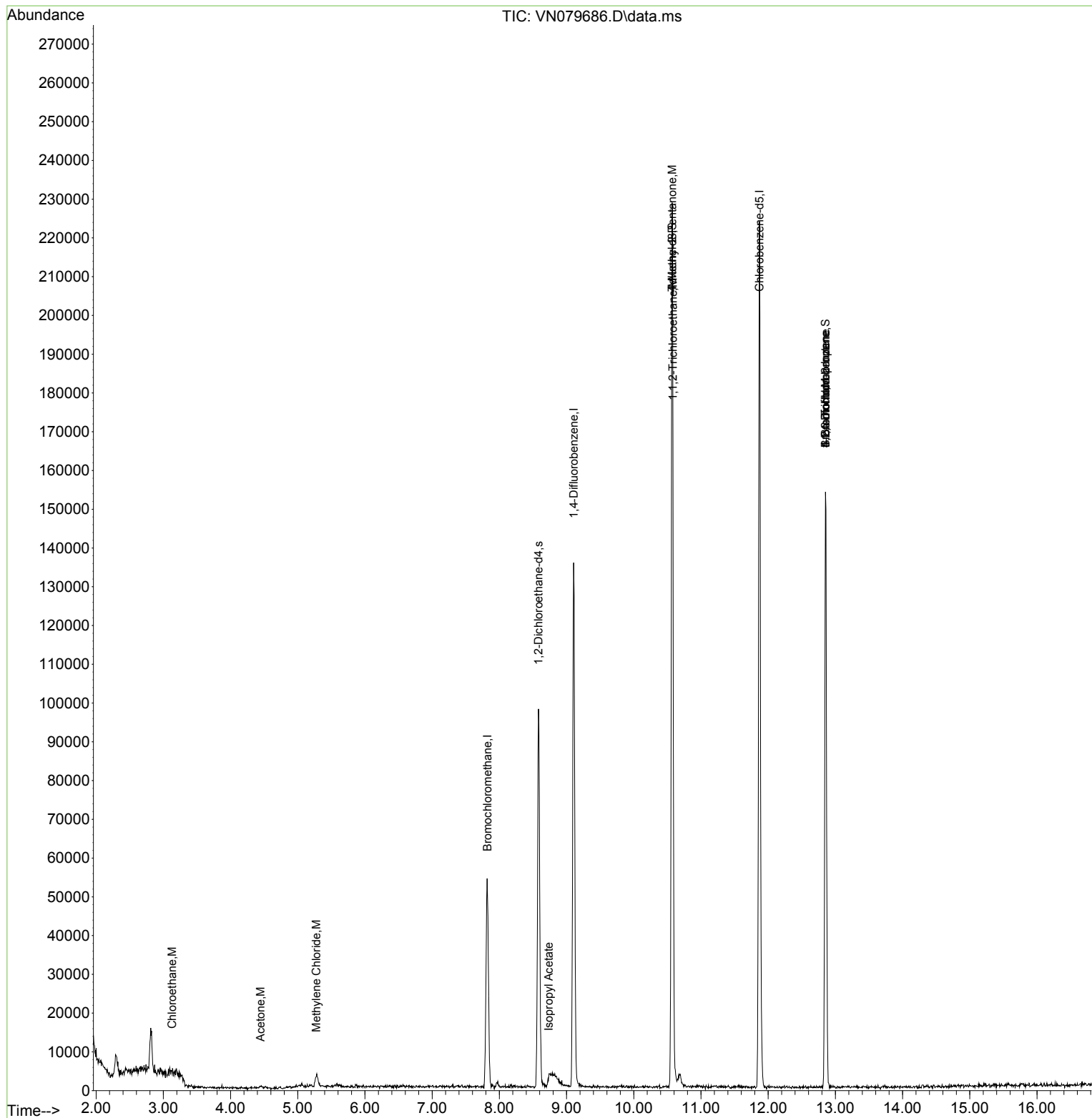
Internal Standards						
1) Bromochloromethane	7.824	128	18369	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	110927	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	130509	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	78789	30.168	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.567%
60) 4-Bromofluorobenzene	12.853	95	54910	23.007	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	76.700%
63) Toluene-d8	10.571	98	157428	28.150	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	93.833%
Target Compounds						
					Qvalue	
6) Chloroethane	3.130	64	555	0.212	ug/l #	46
15) Acetone	4.447	58	114	0.252	ug/l #	1
18) Methylene Chloride	5.277	84	1437	0.472	ug/l #	77
44) Isopropyl Acetate	8.735	43	1591	0.293	ug/l #	1
50) 1,1,2-Trichloroethane	10.582	97	5828	2.463	ug/l #	1
56) Bromoform	12.853	173	502	0.314	ug/l #	1
58) 4-Methyl-2-Pentanone	10.571	43	697	0.229	ug/l #	1
72) 1,2,3-Trichloropropane	12.853	75	31103	10.329	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	31103	33.844	ug/l #	7

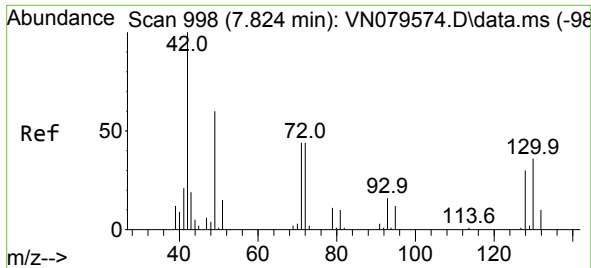
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
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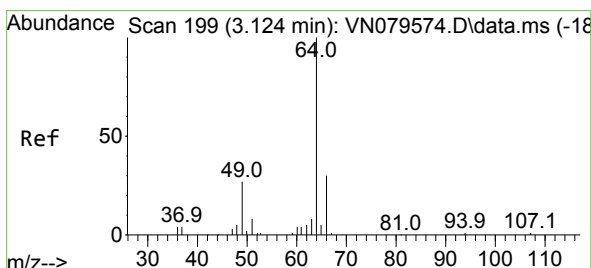
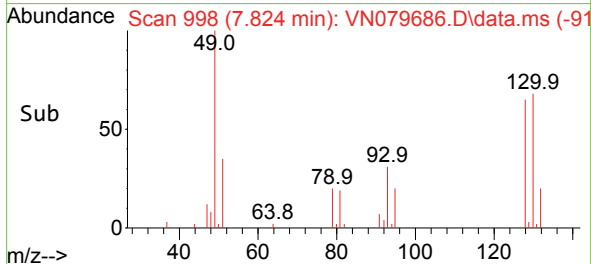
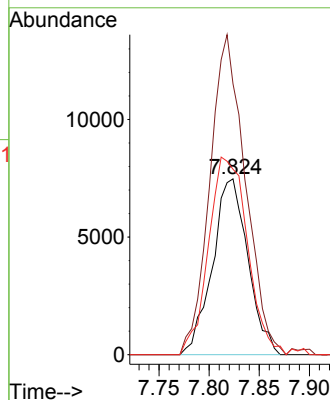
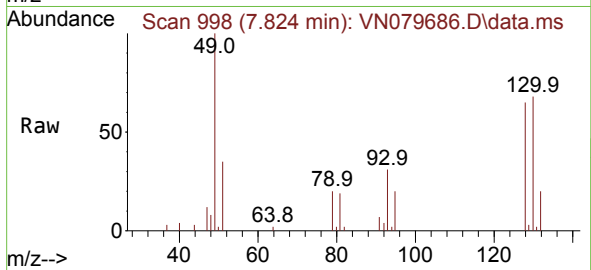




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN079686.D
Acq: 25 Oct 2023 17:01

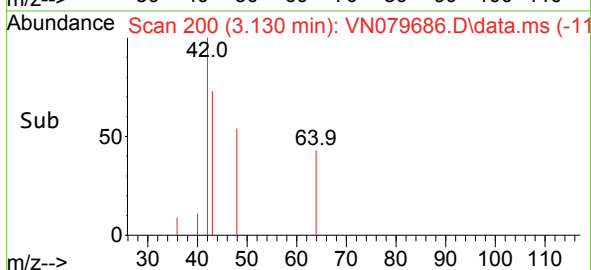
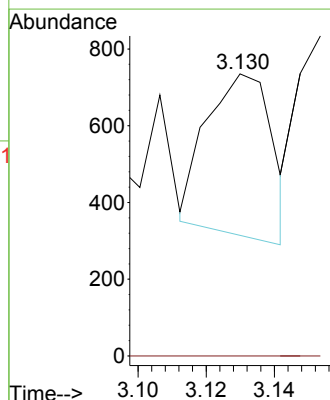
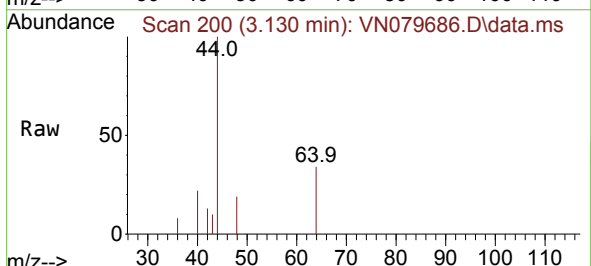
Instrument :
MSVOA_N
ClientSampleId :

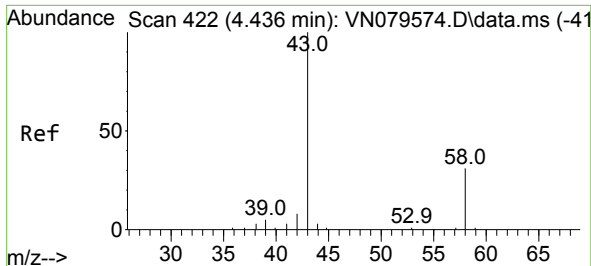
Tgt Ion:128 Resp: 18369
Ion Ratio Lower Upper
128 100
49 182.3 0.0 468.5
130 123.0 0.0 320.7



#6
Chloroethane
Concen: 0.212 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.006 min
Lab File: VN079686.D
Acq: 25 Oct 2023 17:01

Tgt Ion: 64 Resp: 555
Ion Ratio Lower Upper
64 100
66 0.0 23.3 34.9#





#15

Acetone

Concen: 0.252 ug/l

RT: 4.447 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN079686.D

Acq: 25 Oct 2023 17:01

Instrument :

MSVOA_N

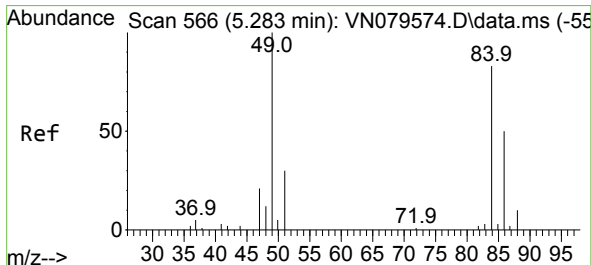
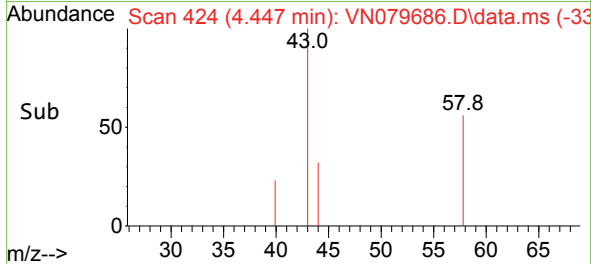
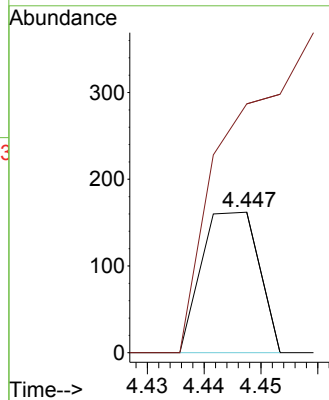
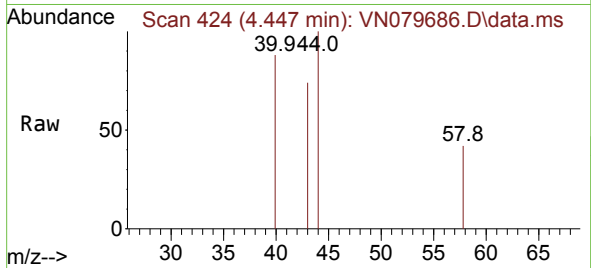
ClientSampleId :

Tgt Ion: 58 Resp: 114

Ion Ratio Lower Upper

58 100

43 0.0 225.2 337.8#



#18

Methylene Chloride

Concen: 0.472 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.006 min

Lab File: VN079686.D

Acq: 25 Oct 2023 17:01

Tgt Ion: 84 Resp: 1437

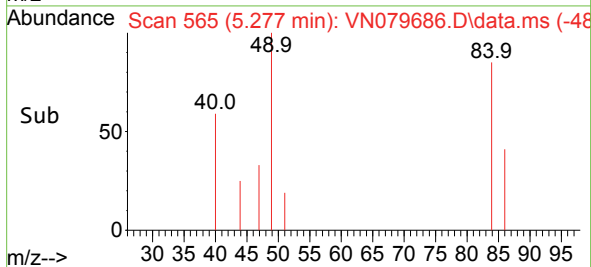
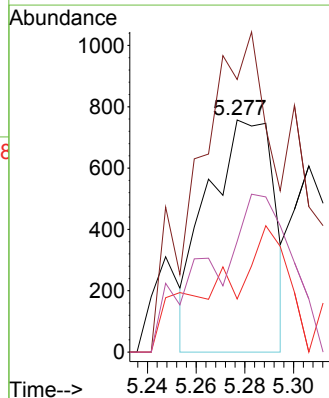
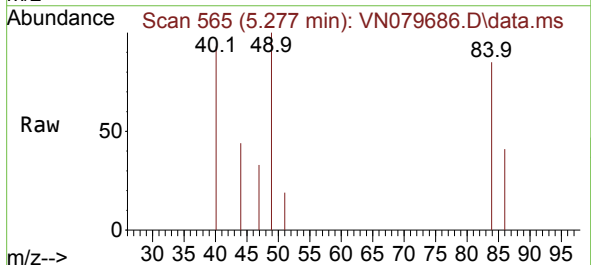
Ion Ratio Lower Upper

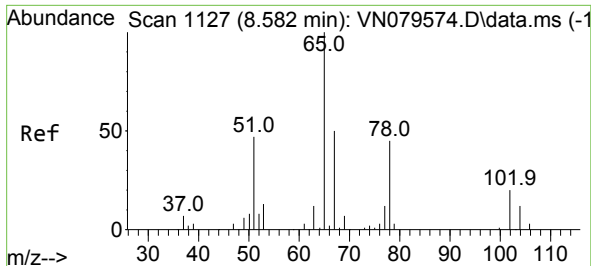
84 100

49 115.8 100.9 151.3

51 0.0 29.4 44.2#

86 37.7 48.2 72.4#





#27

1,2-Dichloroethane-d4

Concen: 30.168 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079686.D

Acq: 25 Oct 2023 17:01

Instrument :

MSVOA_N

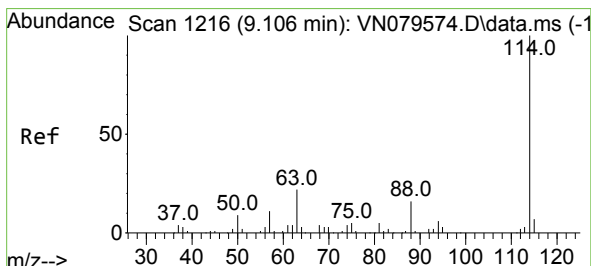
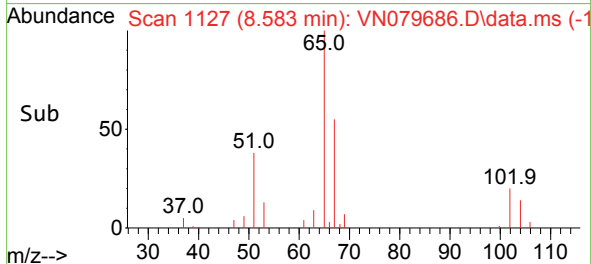
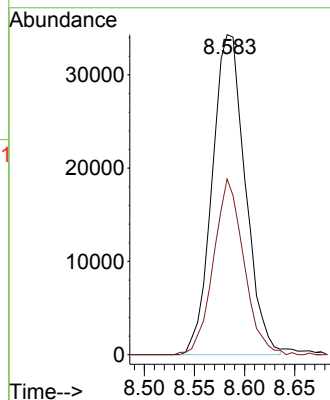
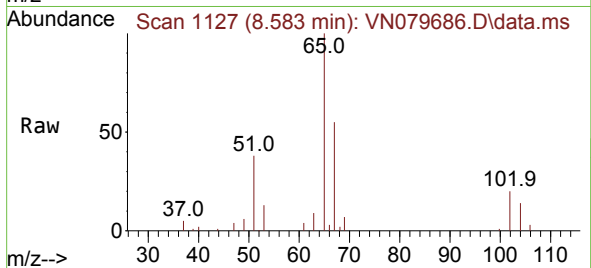
ClientSampleId :

Tgt Ion: 65 Resp: 78789

Ion Ratio Lower Upper

65 100

67 50.3 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: VN079686.D

Acq: 25 Oct 2023 17:01

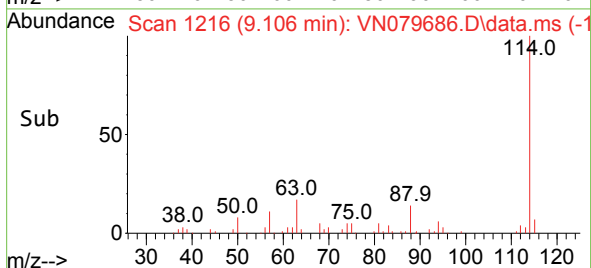
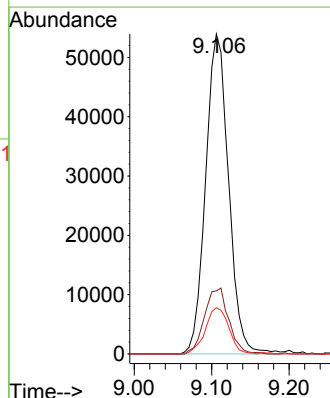
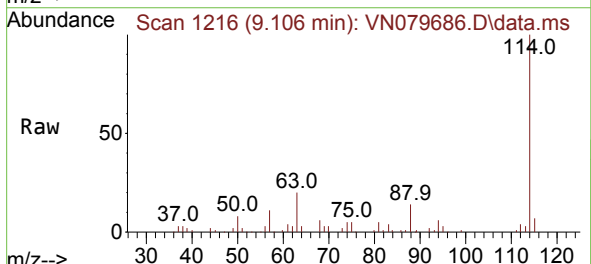
Tgt Ion: 114 Resp: 110927

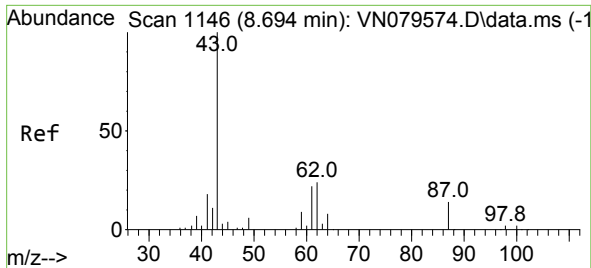
Ion Ratio Lower Upper

114 100

63 21.7 18.1 27.1

88 14.7 12.2 18.2

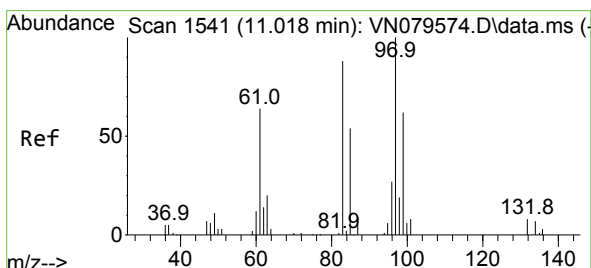
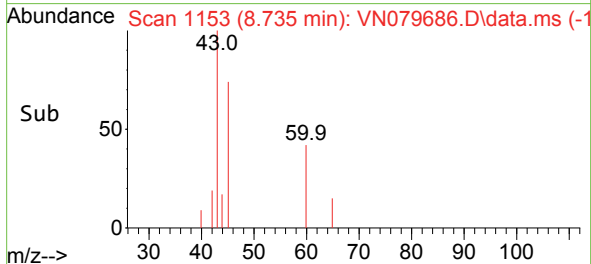
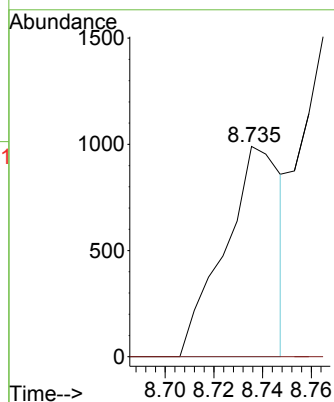
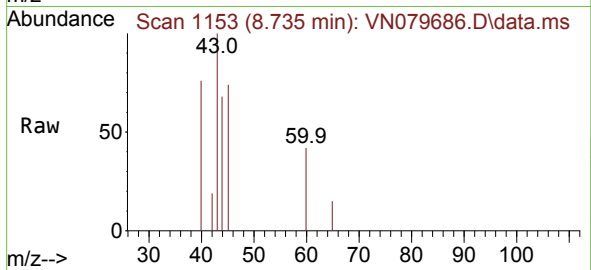




#44
Isopropyl Acetate
Concen: 0.293 ug/l
RT: 8.735 min Scan# 1153
Delta R.T. 0.041 min
Lab File: VN079686.D
Acq: 25 Oct 2023 17:01

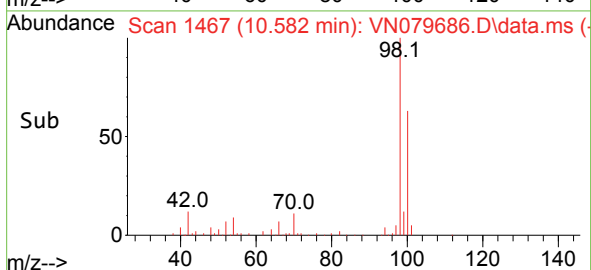
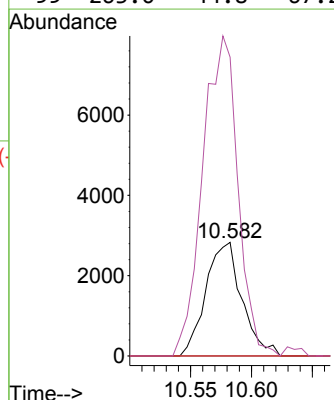
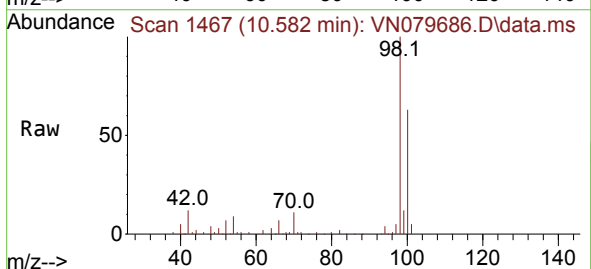
Instrument :
MSVOA_N
ClientSampleId :

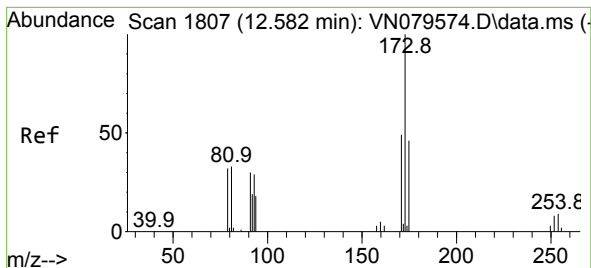
Tgt Ion: 43 Resp: 1591
Ion Ratio Lower Upper
43 100
61 121.7 20.3 30.5#



#50
1,1,2-Trichloroethane
Concen: 2.463 ug/l
RT: 10.582 min Scan# 1467
Delta R.T. -0.435 min
Lab File: VN079686.D
Acq: 25 Oct 2023 17:01

Tgt Ion: 97 Resp: 5828
Ion Ratio Lower Upper
97 100
83 0.0 68.2 102.4#
85 0.0 42.9 64.3#
99 263.0 44.8 67.2#





#56

Bromoform

Concen: 0.314 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

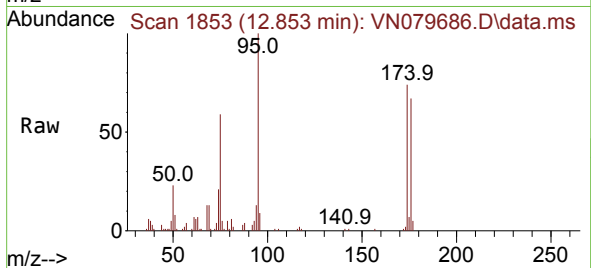
Lab File: VN079686.D

Acq: 25 Oct 2023 17:01

Instrument :

MSVOA_N

ClientSampleId :



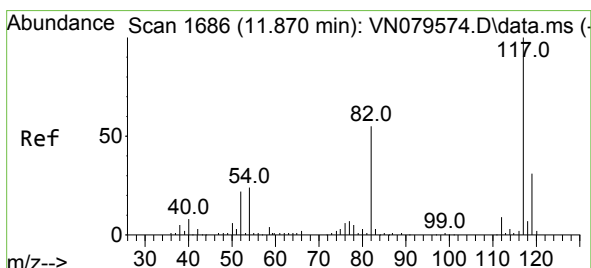
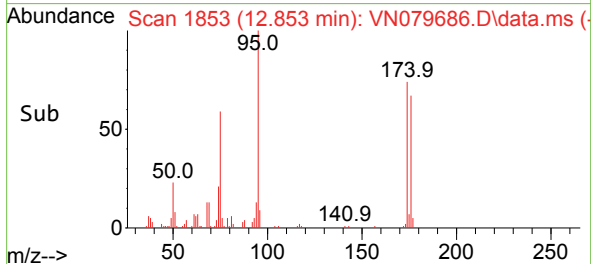
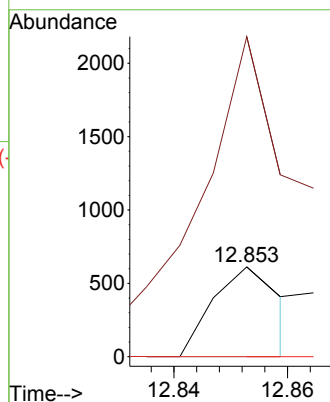
Tgt Ion:173 Resp: 502

Ion Ratio Lower Upper

173 100

175 592.4 37.9 56.9#

254 0.0 7.3 10.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VN079686.D

Acq: 25 Oct 2023 17:01

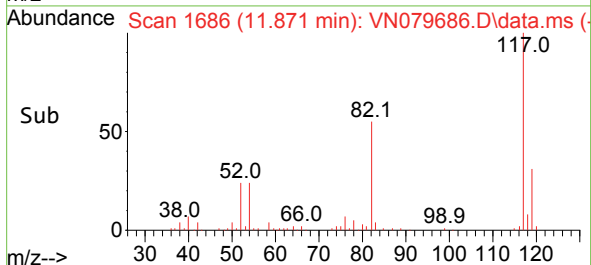
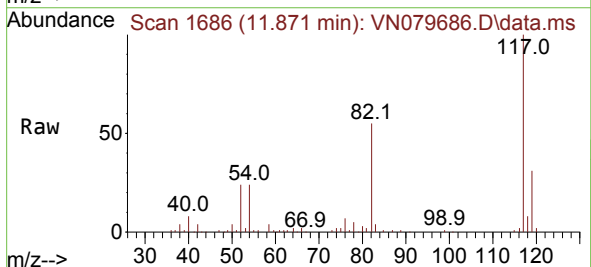
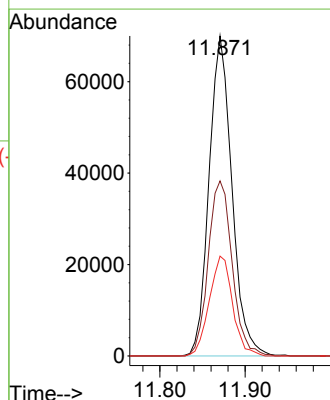
Tgt Ion:117 Resp: 130509

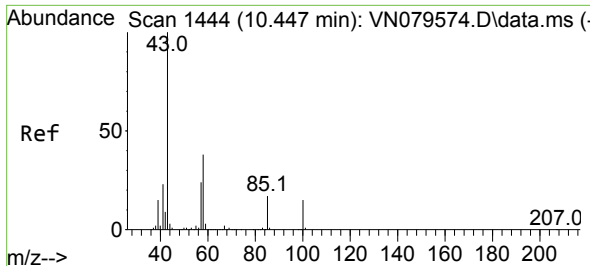
Ion Ratio Lower Upper

117 100

82 57.2 46.2 69.2

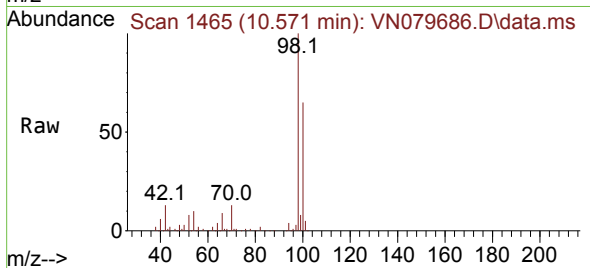
119 31.8 25.2 37.8





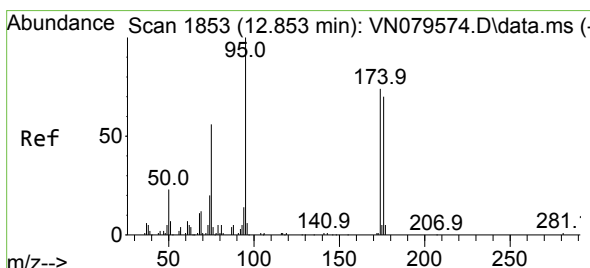
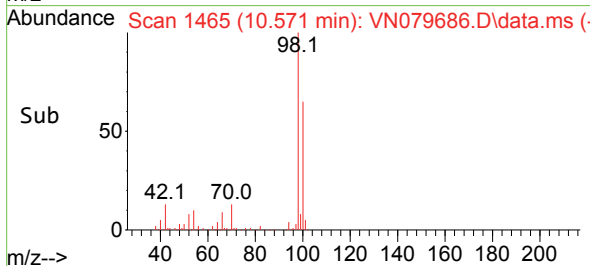
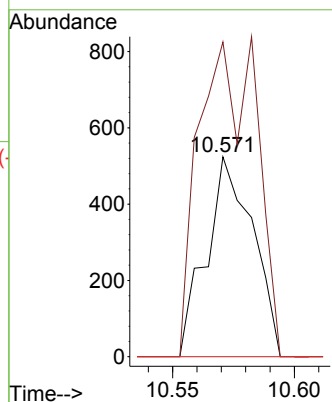
#58
 4-Methyl-2-Pentanone
 Concen: 0.229 ug/l
 RT: 10.571 min Scan# 1444
 Delta R.T. 0.124 min
 Lab File: VN079686.D
 Acq: 25 Oct 2023 17:01

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 43 Resp: 697

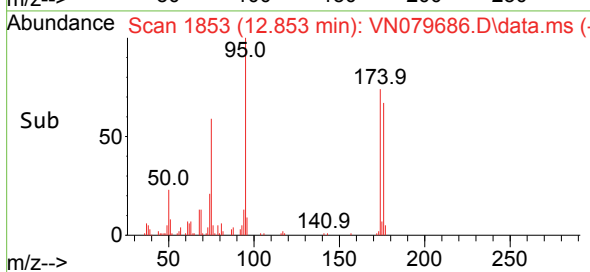
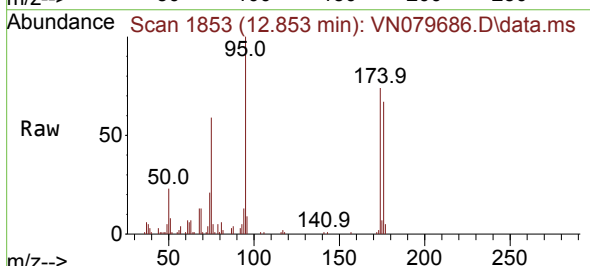
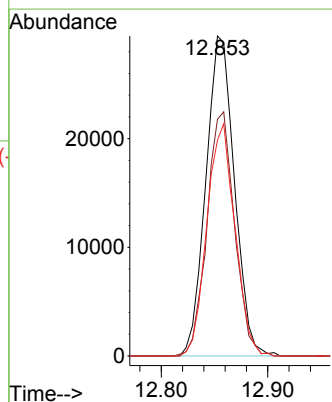
Ion	Ratio	Lower	Upper
43	100		
58	133.7	30.4	45.6#
85	0.0	13.2	19.8#

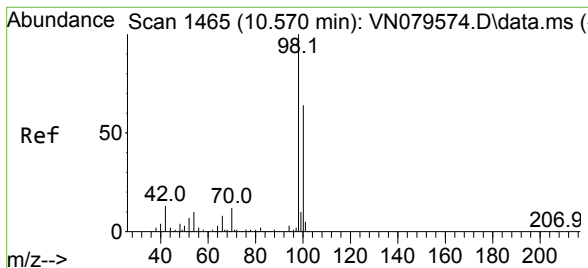


#60
 4-Bromofluorobenzene
 Concen: 23.007 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN079686.D
 Acq: 25 Oct 2023 17:01

Tgt Ion: 95 Resp: 54910

Ion	Ratio	Lower	Upper
95	100		
174	73.6	60.5	90.7
176	71.3	57.2	85.8





#63

Toluene-d8

Concen: 28.150 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079686.D

Acq: 25 Oct 2023 17:01

Instrument :

MSVOA_N

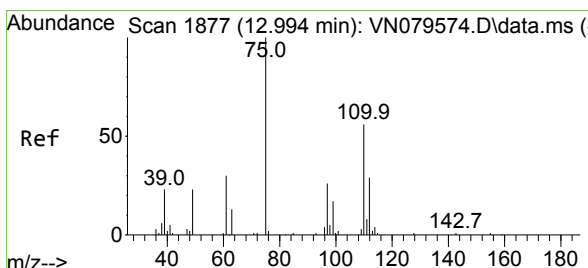
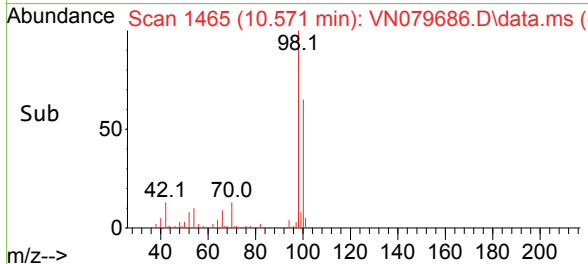
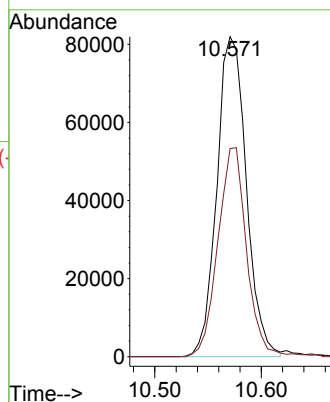
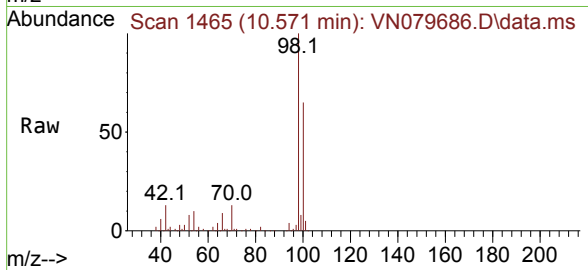
ClientSampleId :

Tgt Ion: 98 Resp: 157428

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4



#72

1,2,3-Trichloropropane

Concen: 10.329 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079686.D

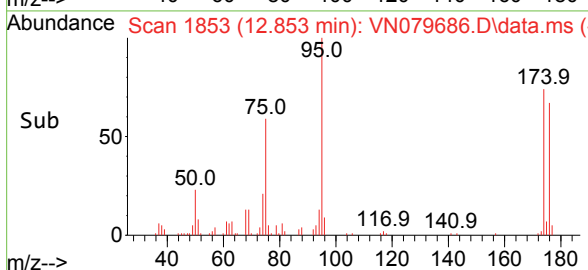
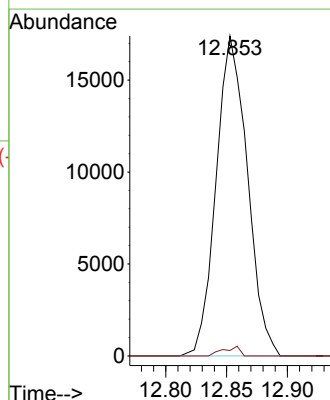
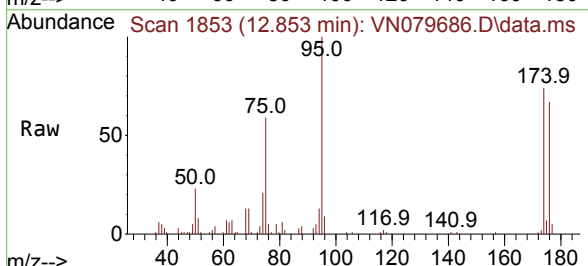
Acq: 25 Oct 2023 17:01

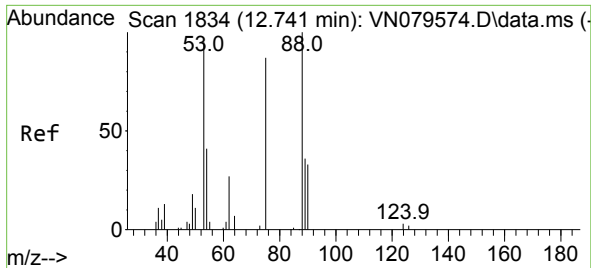
Tgt Ion: 75 Resp: 31103

Ion Ratio Lower Upper

75 100

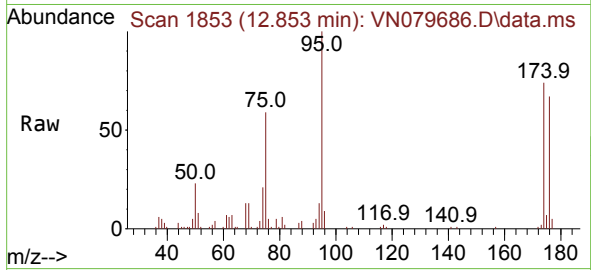
77 1.6 0.0 338.2





#77
 t-1,4-Dichloro-2-butene
 Concen: 33.844 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN079686.D
 Acq: 25 Oct 2023 17:01

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 31103
 Ion Ratio Lower Upper
 75 100
 53 0.0 53.0 159.1#
 89 0.0 22.6 67.7#

