

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091123\
 Data File : VN079212.D
 Acq On : 11 Sep 2023 12:16
 Operator : JC\MD
 Sample : 04376-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 12 02:45:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

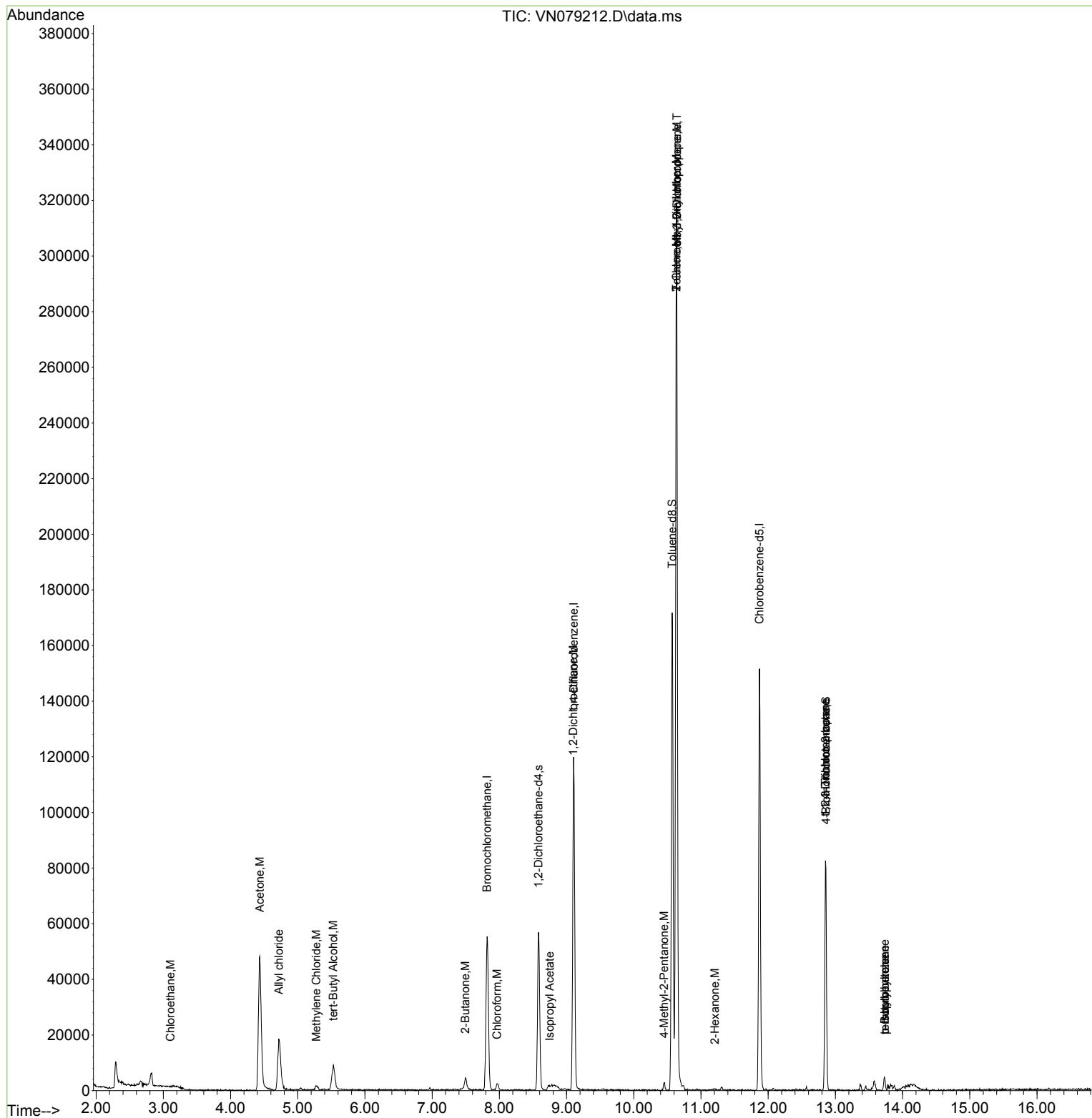
Internal Standards						
1) Bromochloromethane	7.818	128	20457	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	104553	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	90723	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	46593	30.315	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.067%
60) 4-Bromofluorobenzene	12.859	95	29593	22.138	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	73.800%
63) Toluene-d8	10.571	98	120917	28.519	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.067%
Target Compounds						
					Qvalue	
6) Chloroethane	3.106	64	368	0.531	ug/l #	50
15) Acetone	4.436	58	29476	229.685	ug/l	99
17) Allyl chloride	4.718	41	2009	1.738	ug/l	83
18) Methylene Chloride	5.277	84	861	0.892	ug/l #	66
23) tert-Butyl Alcohol	5.530	59	8138	43.001	ug/l #	100
25) Chloroform	7.965	83	1494	0.613	ug/l	98
30) 2-Butanone	7.494	43	7590	9.002	ug/l #	93
36) 1,2-Dichloroethane	9.100	62	3473	1.977	ug/l #	73
44) Isopropyl Acetate	8.747	43	1330	0.462	ug/l #	24
48) t-1,3-Dichloropropene	10.641	75	1671	0.855	ug/l #	1
49) cis-1,3-Dichloropropene	10.641	75	1671	0.820	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.635	63	15648	22.436	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	2109	1.267	ug/l #	81
59) 2-Hexanone	11.206	43	261	0.223	ug/l #	87
62) Toluene	10.635	91	248916	47.122	ug/l	100
72) 1,2,3-Trichloropropane	12.853	75	15514	10.047	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.853	75	15514	28.537	ug/l #	14
79) tert-butylbenzene	13.735	119	2776	0.834	ug/l	61
82) p-Isopropyltoluene	13.735	119	2776	0.771	ug/l	96
85) n-Butylbenzene	13.735	91	675	0.246	ug/l #	5

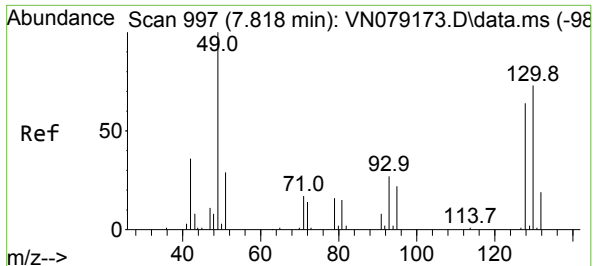
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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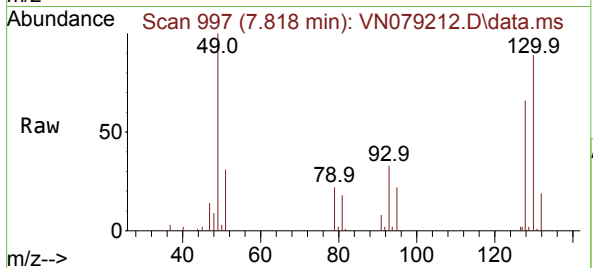
Quant Time: Sep 12 02:45:57 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 08 05:09:17 2023
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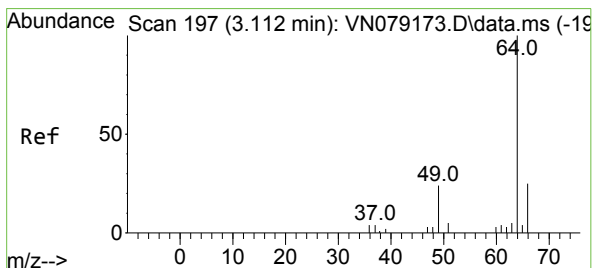
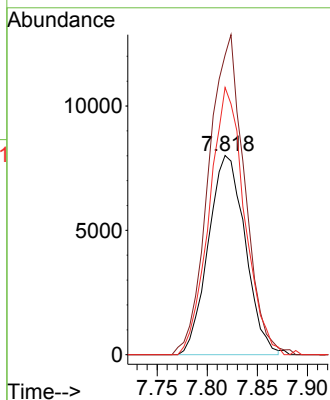
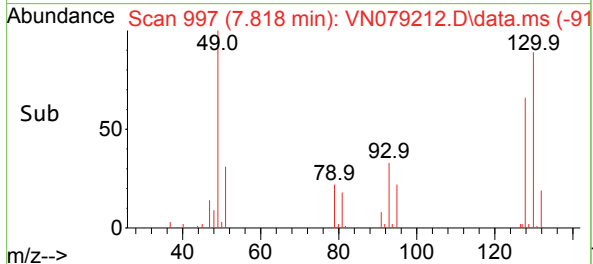


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN079212.D
Acq: 11 Sep 2023 12:16

Instrument :
MSVOA_N
ClientSampleId :

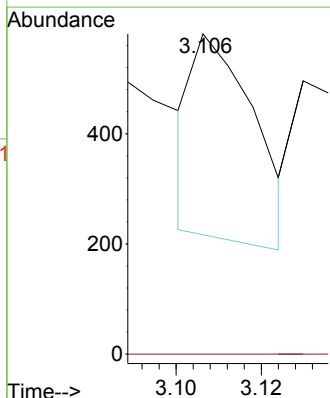
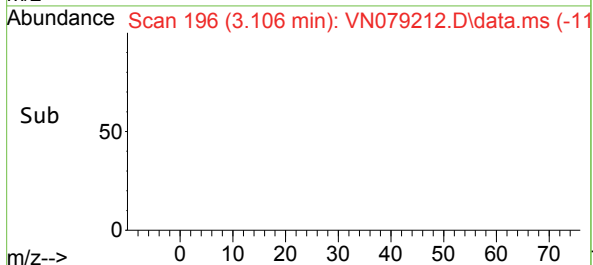
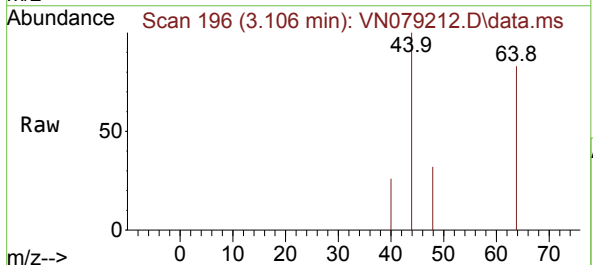


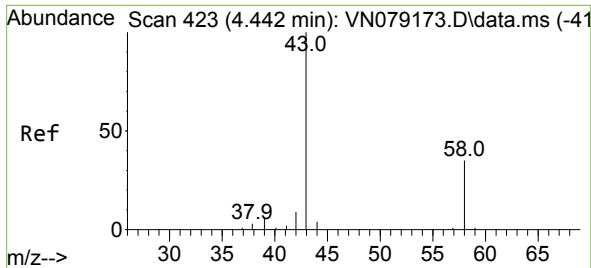
Tgt Ion:128 Resp: 20457
Ion Ratio Lower Upper
128 100
49 156.7 0.0 414.3
130 128.6 0.0 311.0



#6
Chloroethane
Concen: 0.531 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.006 min
Lab File: VN079212.D
Acq: 11 Sep 2023 12:16

Tgt Ion: 64 Resp: 368
Ion Ratio Lower Upper
64 100
66 0.0 20.1 30.1#





#15

Acetone

Concen: 229.685 ug/l

RT: 4.436 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN079212.D

Acq: 11 Sep 2023 12:16

Instrument :

MSVOA_N

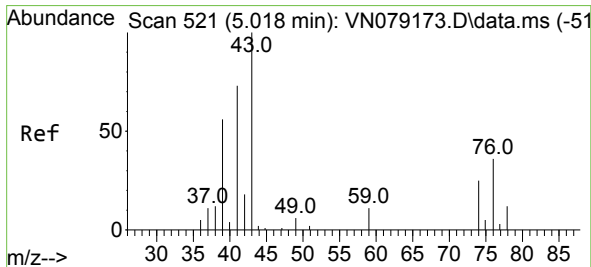
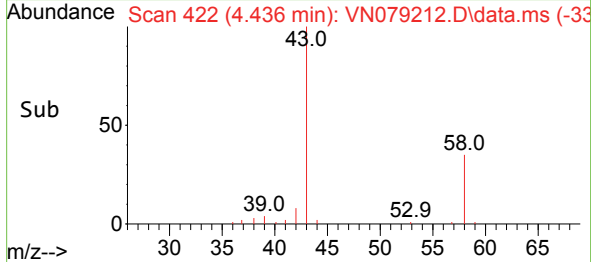
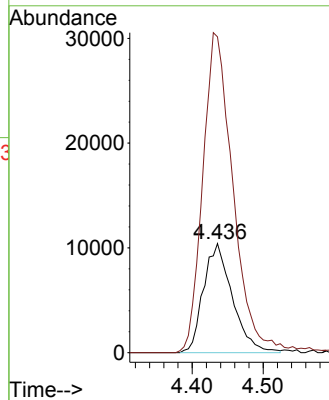
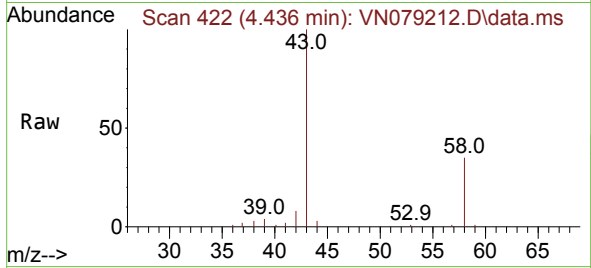
ClientSampleId :

Tgt Ion: 58 Resp: 29476

Ion Ratio Lower Upper

58 100

43 287.8 228.3 342.5



#17

Allyl chloride

Concen: 1.738 ug/l

RT: 4.718 min Scan# 470

Delta R.T. -0.300 min

Lab File: VN079212.D

Acq: 11 Sep 2023 12:16

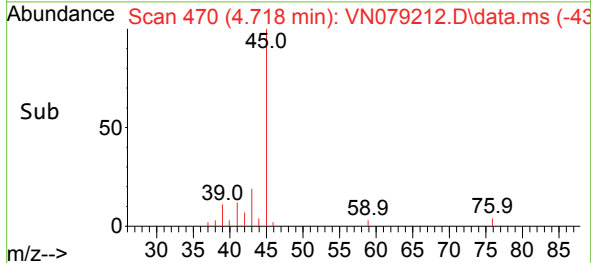
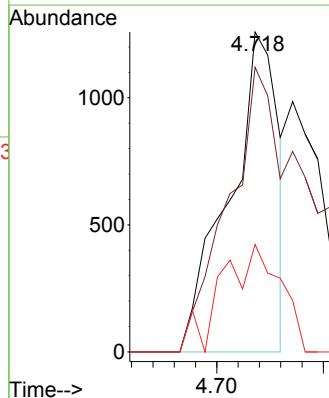
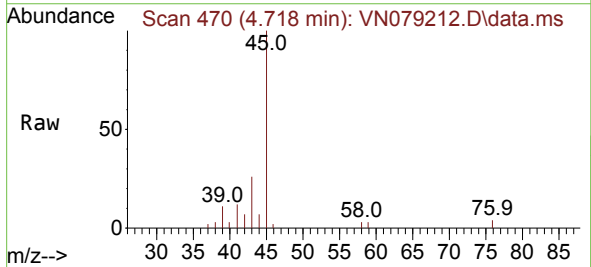
Tgt Ion: 41 Resp: 2009

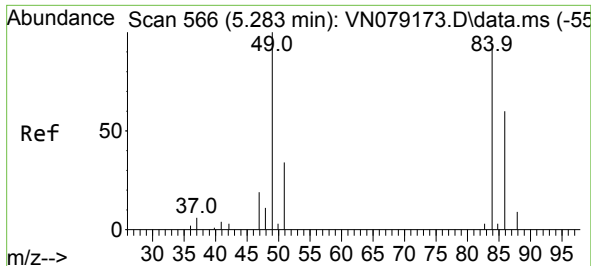
Ion Ratio Lower Upper

41 100

39 89.0 38.3 114.8

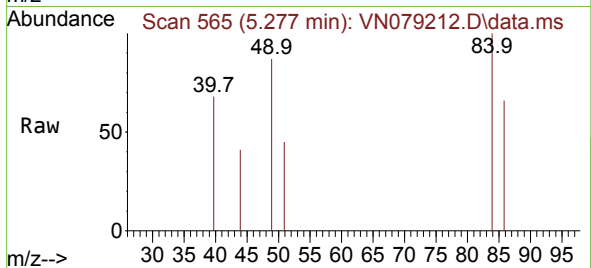
76 33.6 23.7 71.1



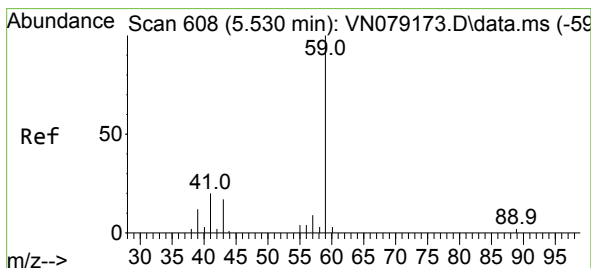
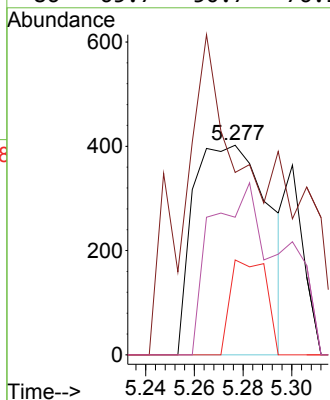
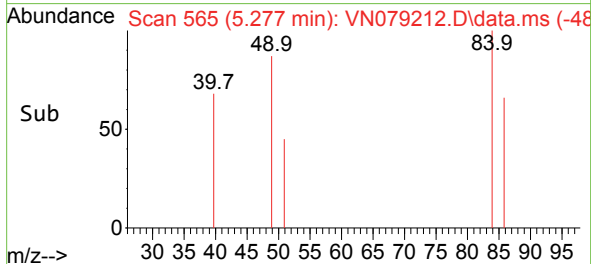


#18
Methylene Chloride
Concen: 0.892 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN079212.D
Acq: 11 Sep 2023 12:16

Instrument :
MSVOA_N
ClientSampleId :

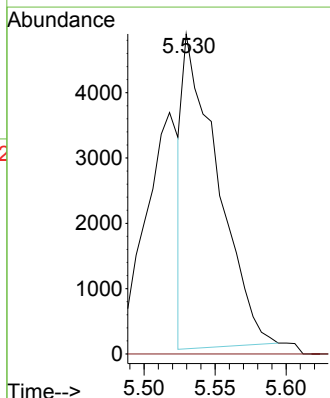
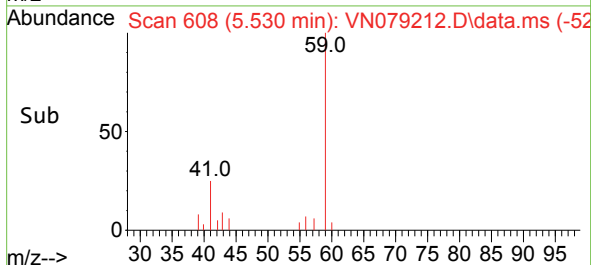
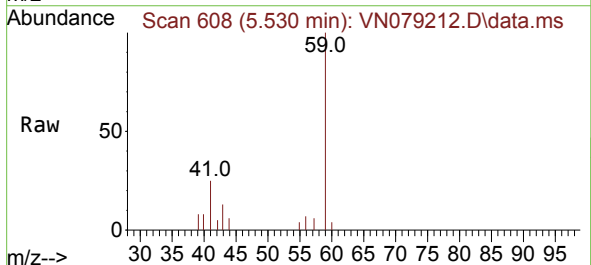


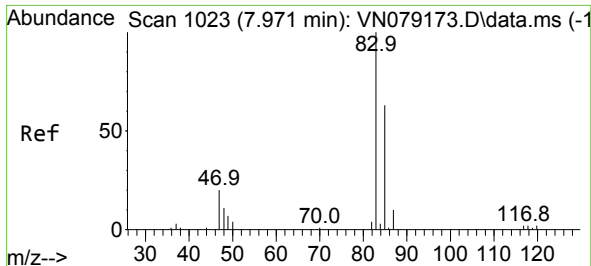
Tgt Ion:	84	Resp:	861
Ion	Ratio	Lower	Upper
84	100		
49	47.5	86.9	130.3#
51	45.3	28.6	43.0#
86	65.7	50.7	76.1



#23
tert-Butyl Alcohol
Concen: 43.001 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.000 min
Lab File: VN079212.D
Acq: 11 Sep 2023 12:16

Tgt Ion:	59	Resp:	8138
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

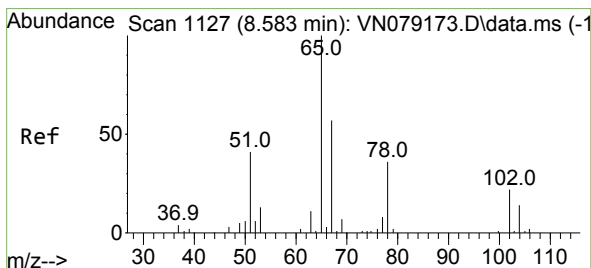
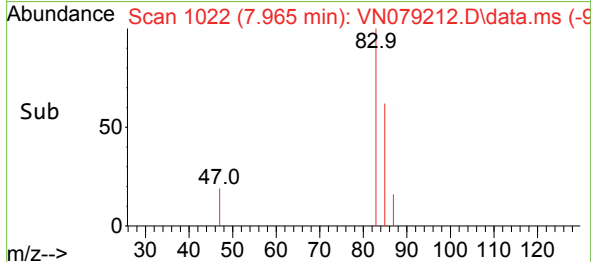
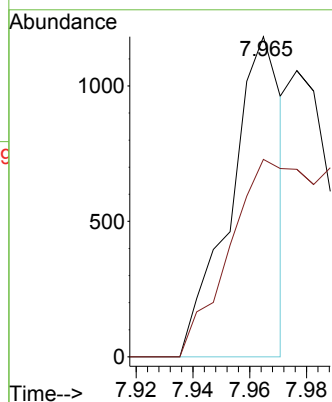
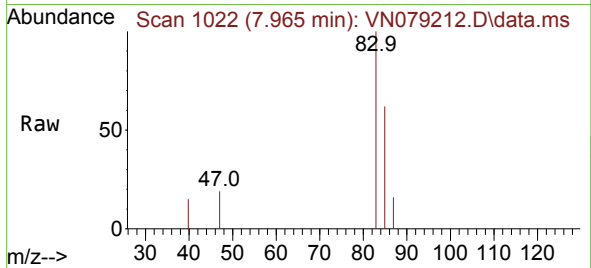




#25
Chloroform
Concen: 0.613 ug/l
RT: 7.965 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN079212.D
Acq: 11 Sep 2023 12:16

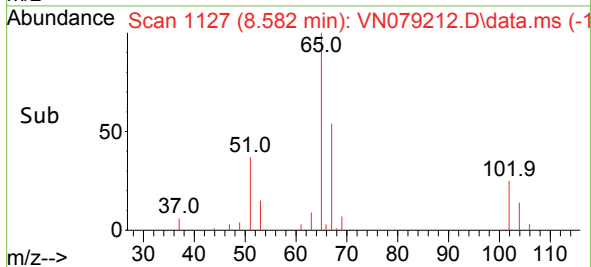
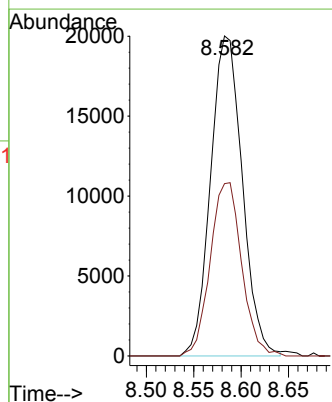
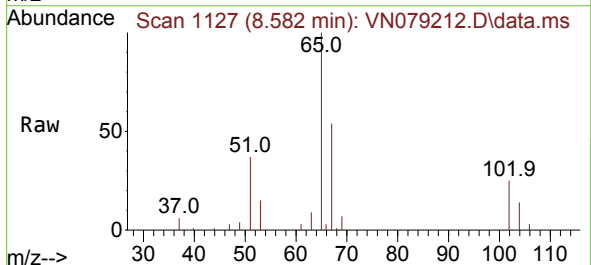
Instrument :
MSVOA_N
ClientSampleId :

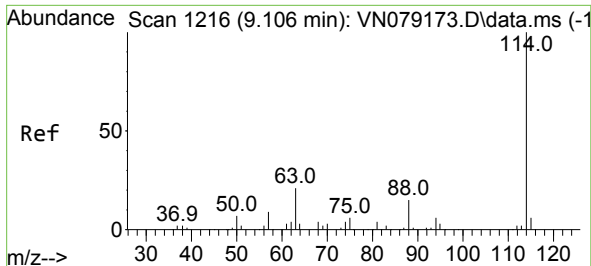
Tgt Ion: 83 Resp: 1494
Ion Ratio Lower Upper
83 100
85 61.7 50.6 76.0



#27
1,2-Dichloroethane-d4
Concen: 30.315 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN079212.D
Acq: 11 Sep 2023 12:16

Tgt Ion: 65 Resp: 46593
Ion Ratio Lower Upper
65 100
67 53.4 44.4 66.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN079212.D

Acq: 11 Sep 2023 12:16

Instrument :

MSVOA_N

ClientSampleId :

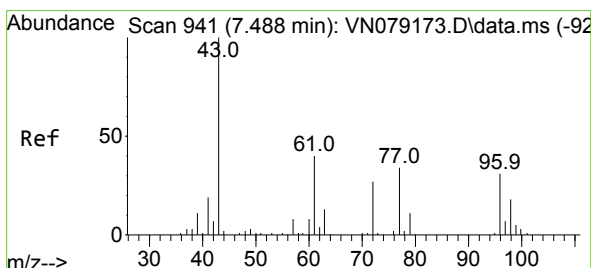
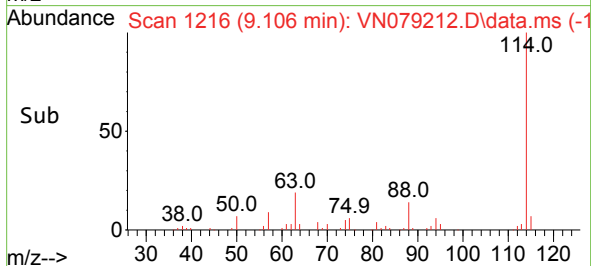
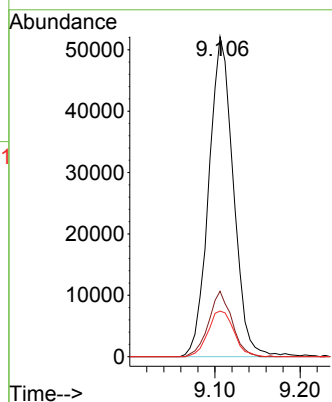
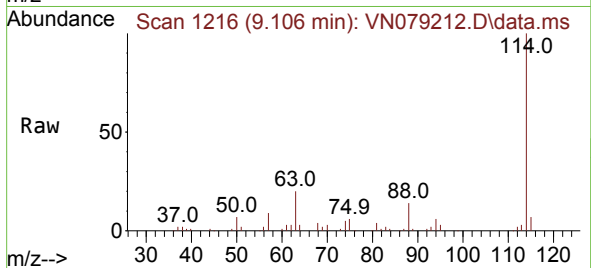
Tgt Ion:114 Resp: 104553

Ion Ratio Lower Upper

114 100

63 19.4 17.0 25.4

88 15.1 12.8 19.2



#30

2-Butanone

Concen: 9.002 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.006 min

Lab File: VN079212.D

Acq: 11 Sep 2023 12:16

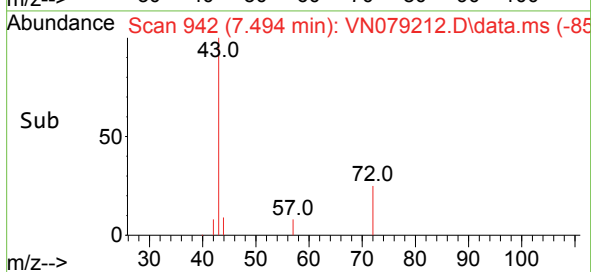
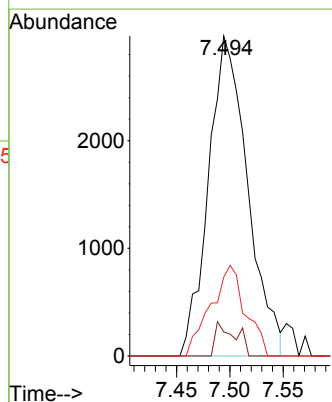
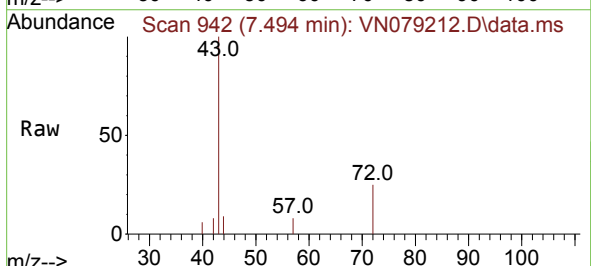
Tgt Ion: 43 Resp: 7590

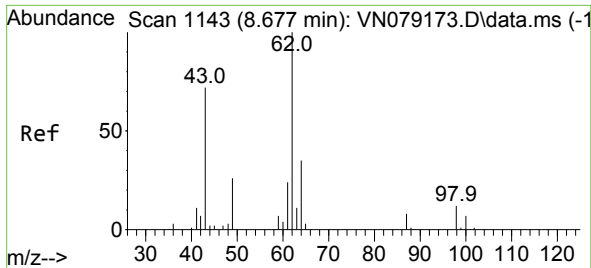
Ion Ratio Lower Upper

43 100

57 4.2 6.8 10.2#

72 25.2 22.4 33.6





#36

1,2-Dichloroethane

Concen: 1.977 ug/l

RT: 9.100 min Scan# 1155

Delta R.T. 0.423 min

Lab File: VN079212.D

Acq: 11 Sep 2023 12:16

Instrument :

MSVOA_N

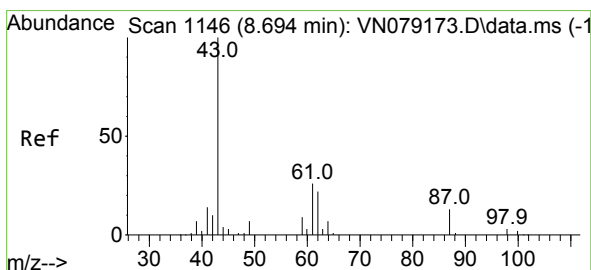
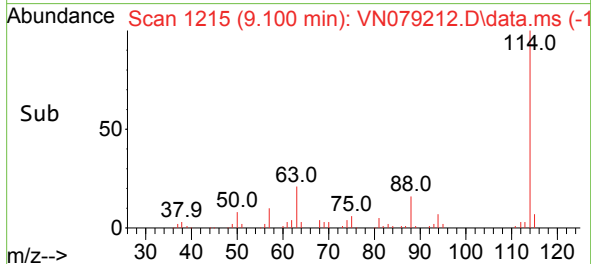
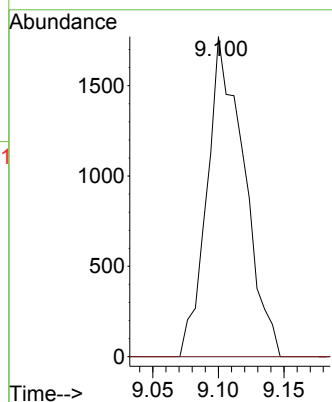
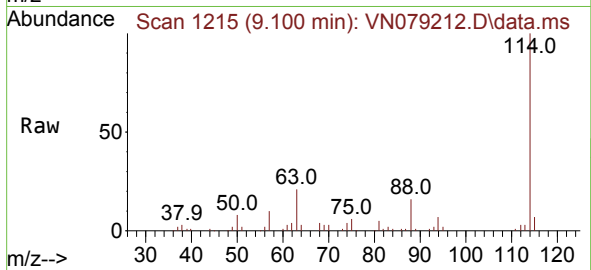
ClientSampleId :

Tgt Ion: 62 Resp: 3473

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.2#



#44

Isopropyl Acetate

Concen: 0.462 ug/l

RT: 8.747 min Scan# 1155

Delta R.T. 0.053 min

Lab File: VN079212.D

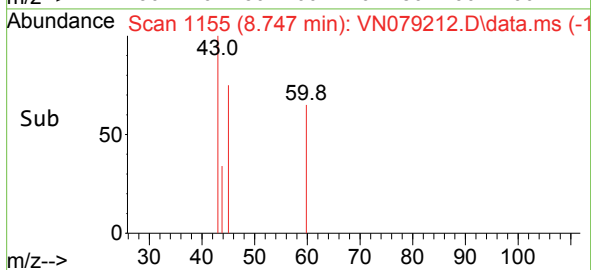
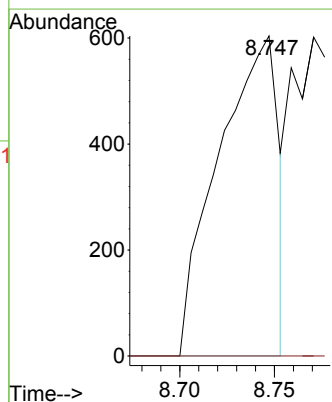
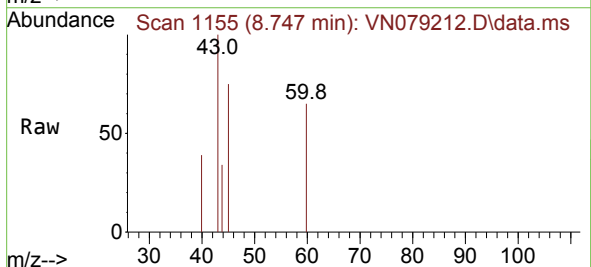
Acq: 11 Sep 2023 12:16

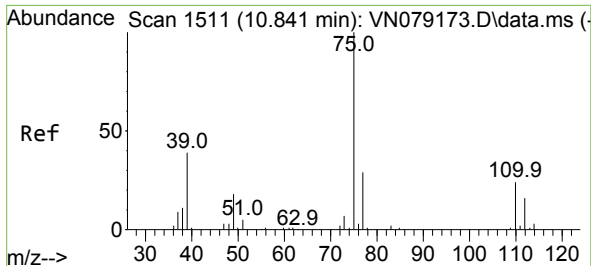
Tgt Ion: 43 Resp: 1330

Ion Ratio Lower Upper

43 100

61 68.0 22.6 33.8#

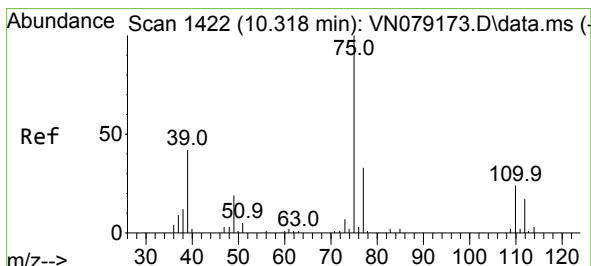
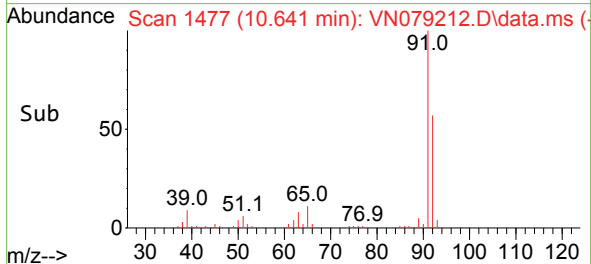
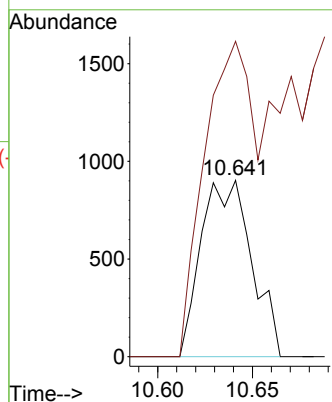
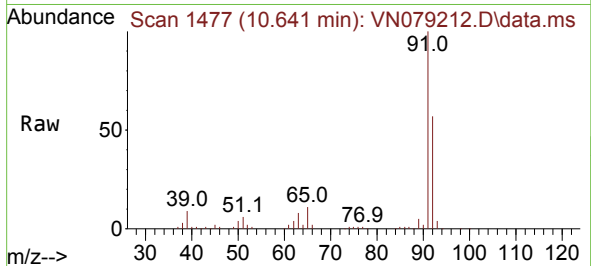




#48
 t-1,3-Dichloropropene
 Concen: 0.855 ug/l
 RT: 10.641 min Scan# 1477
 Delta R.T. -0.200 min
 Lab File: VN079212.D
 Acq: 11 Sep 2023 12:16

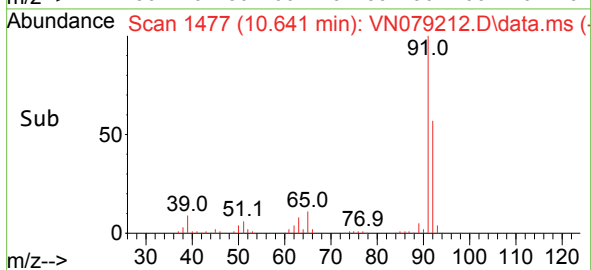
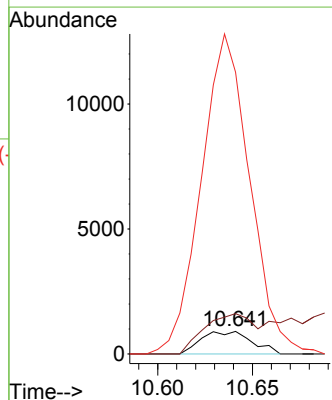
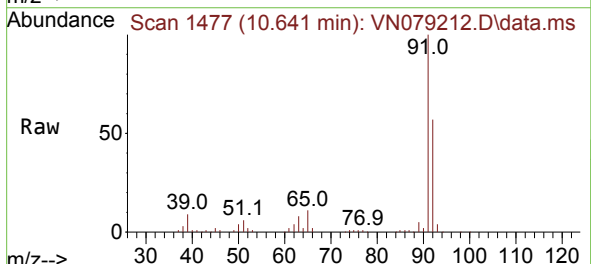
Instrument :
 MSVOA_N
 ClientSampleId :

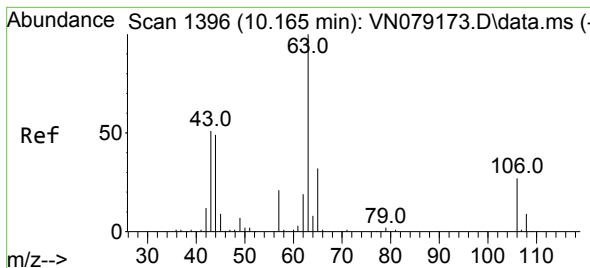
Tgt Ion: 75 Resp: 1671
 Ion Ratio Lower Upper
 75 100
 77 178.7 22.9 34.3#



#49
 cis-1,3-Dichloropropene
 Concen: 0.820 ug/l
 RT: 10.641 min Scan# 1477
 Delta R.T. 0.323 min
 Lab File: VN079212.D
 Acq: 11 Sep 2023 12:16

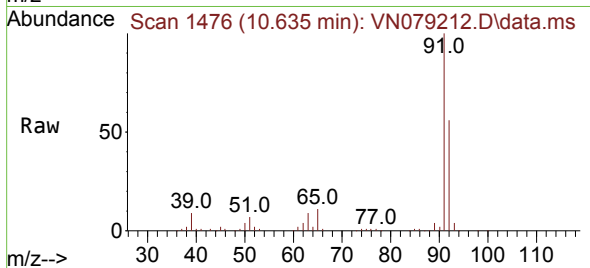
Tgt Ion: 75 Resp: 1671
 Ion Ratio Lower Upper
 75 100
 77 178.7 26.2 39.2#
 39 1148.9 33.8 50.8#



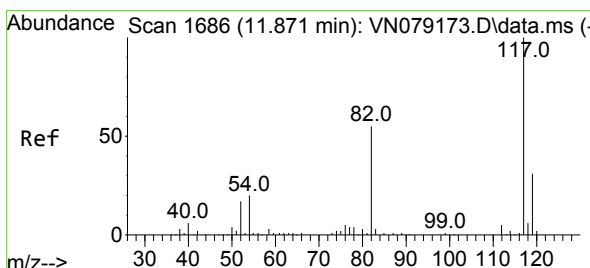
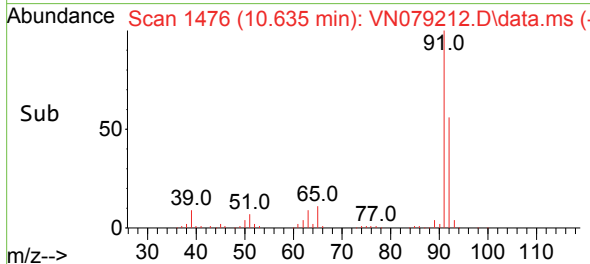
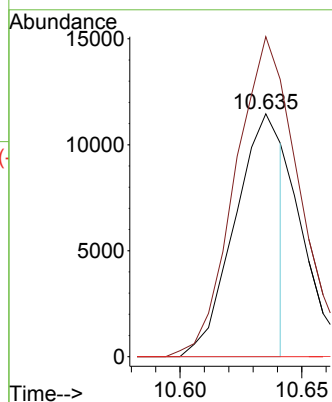


#55
2-Chloroethyl vinyl ether
Concen: 22.436 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.470 min
Lab File: VN079212.D
Acq: 11 Sep 2023 12:16

Instrument :
MSVOA_N
ClientSampleId :

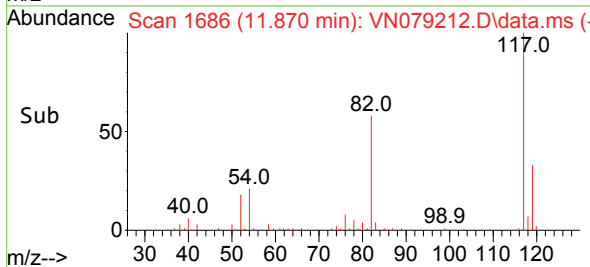
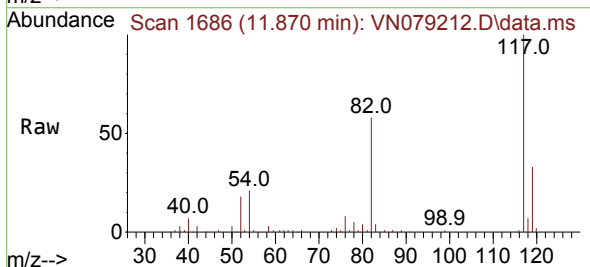
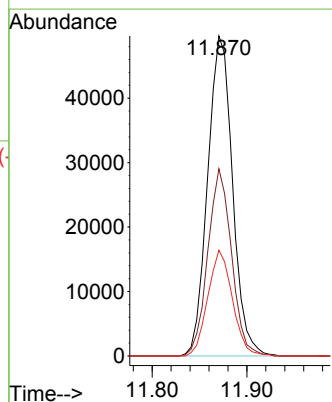


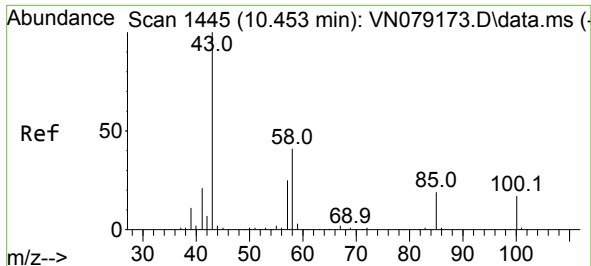
Tgt Ion: 63 Resp: 15648
Ion Ratio Lower Upper
63 100
65 130.6 25.7 38.5#
106 0.0 21.9 32.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN079212.D
Acq: 11 Sep 2023 12:16

Tgt Ion: 117 Resp: 90723
Ion Ratio Lower Upper
117 100
82 55.8 44.7 67.1
119 32.6 24.9 37.3

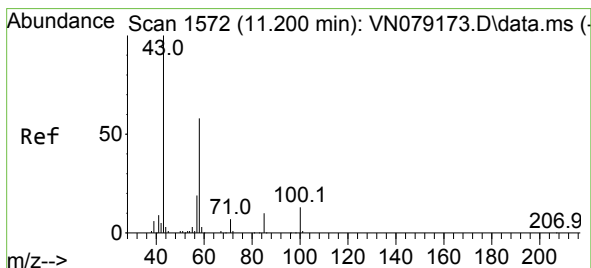
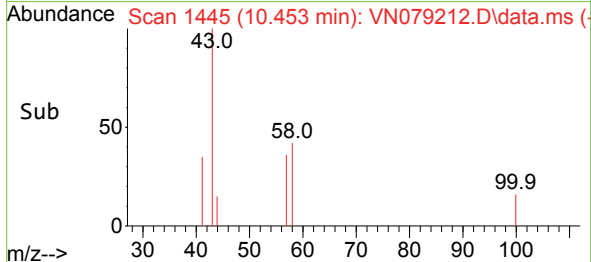
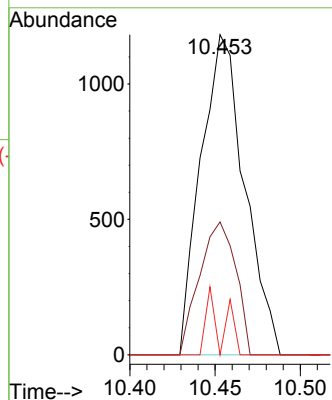
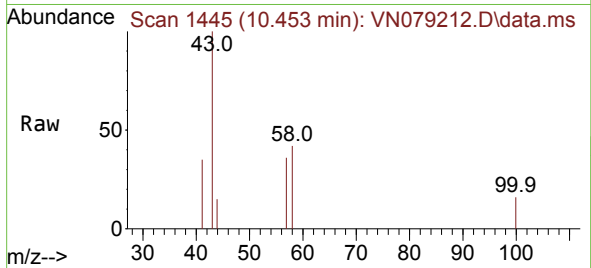




#58
4-Methyl-2-Pentanone
Concen: 1.267 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN079212.D
Acq: 11 Sep 2023 12:16

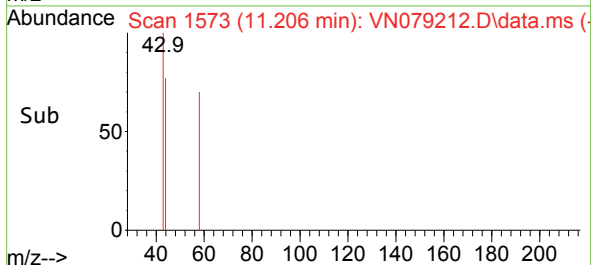
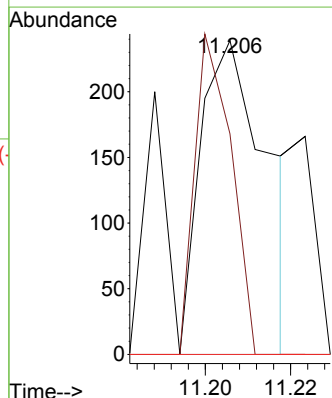
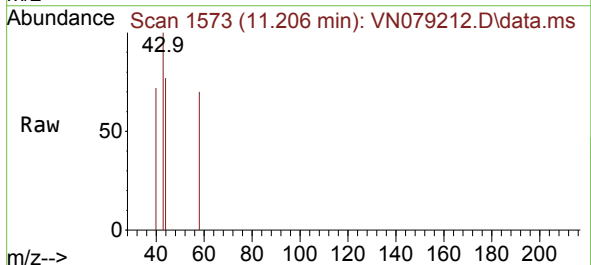
Instrument :
MSVOA_N
ClientSampleId :

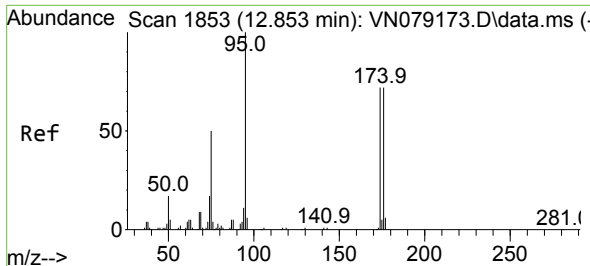
Tgt Ion: 43 Resp: 2109
Ion Ratio Lower Upper
43 100
58 34.4 33.6 50.4
85 3.4 15.0 22.4#



#59
2-Hexanone
Concen: 0.223 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN079212.D
Acq: 11 Sep 2023 12:16

Tgt Ion: 43 Resp: 261
Ion Ratio Lower Upper
43 100
58 55.6 46.4 69.6
57 0.0 15.3 22.9#

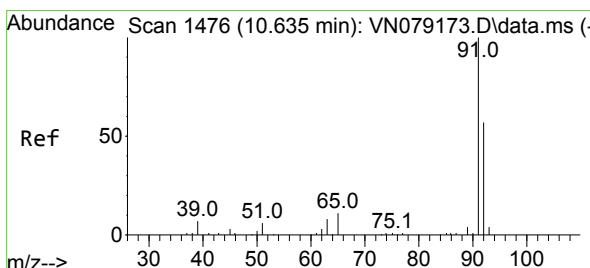
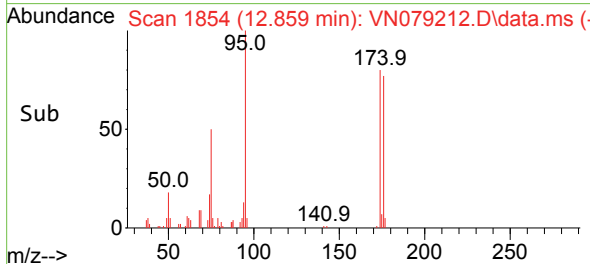
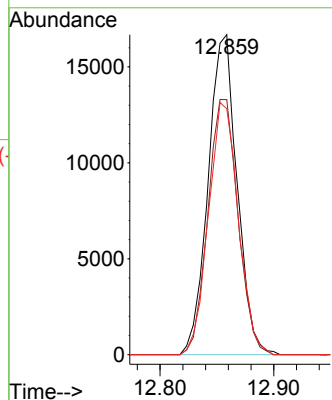
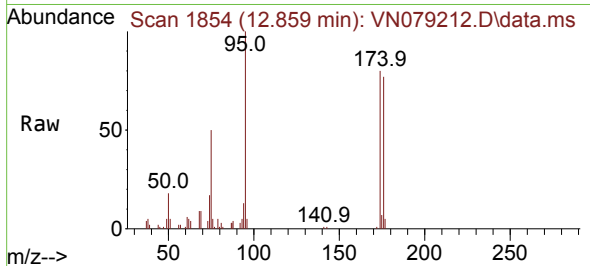




#60
4-Bromofluorobenzene
Concen: 22.138 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079212.D
Acq: 11 Sep 2023 12:16

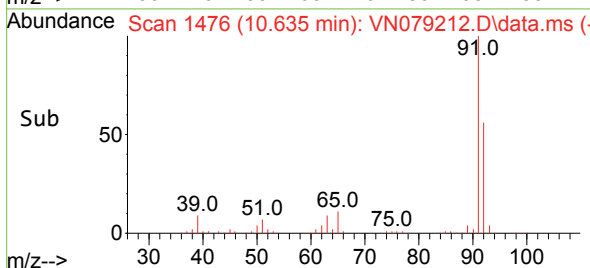
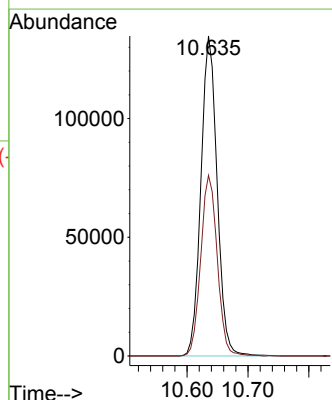
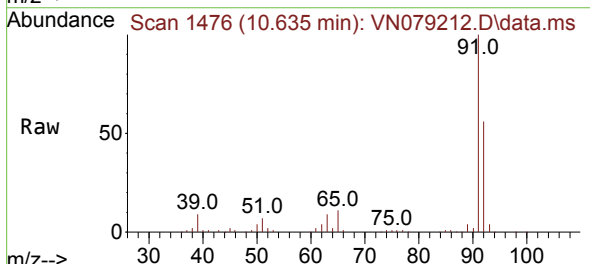
Instrument :
MSVOA_N
ClientSampleId :

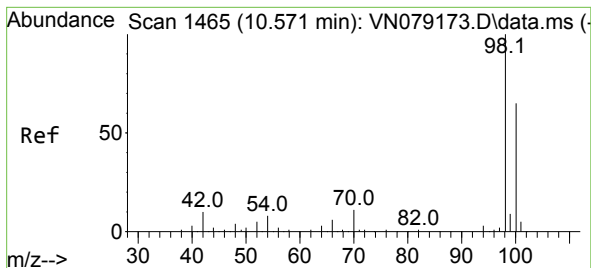
Tgt Ion: 95 Resp: 29593
Ion Ratio Lower Upper
95 100
174 82.6 59.5 89.3
176 81.1 59.1 88.7



#62
Toluene
Concen: 47.122 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079212.D
Acq: 11 Sep 2023 12:16

Tgt Ion: 91 Resp: 248916
Ion Ratio Lower Upper
91 100
92 57.4 45.7 68.5





#63

Toluene-d8

Concen: 28.519 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN079212.D

Acq: 11 Sep 2023 12:16

Instrument :

MSVOA_N

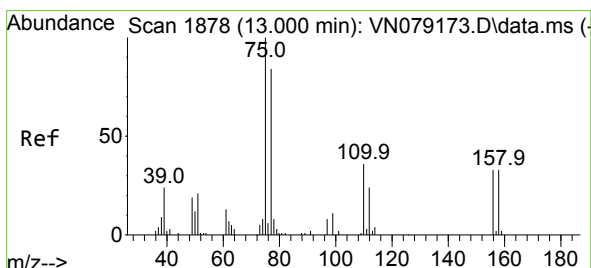
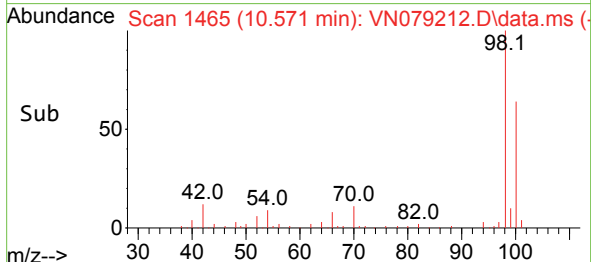
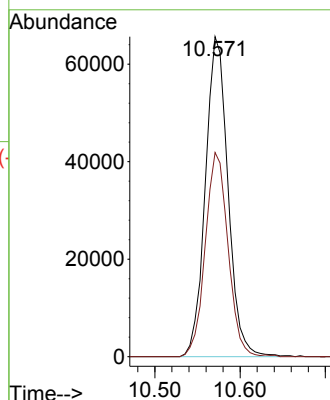
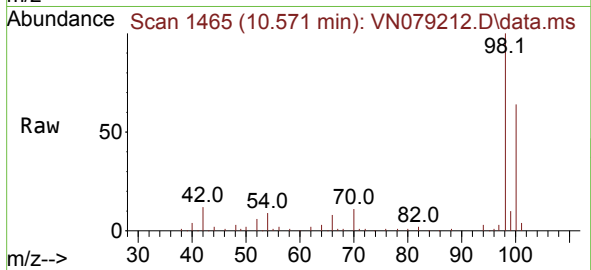
ClientSampleId :

Tgt Ion: 98 Resp: 120917

Ion Ratio Lower Upper

98 100

100 64.1 52.5 78.7



#72

1,2,3-Trichloropropane

Concen: 10.047 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079212.D

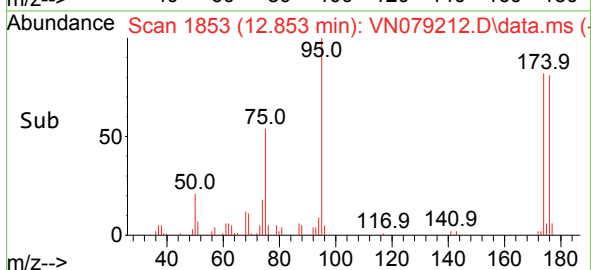
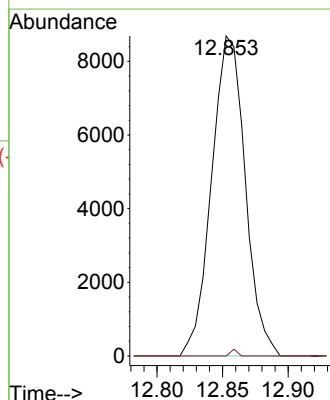
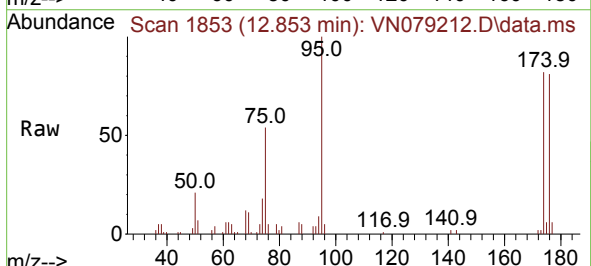
Acq: 11 Sep 2023 12:16

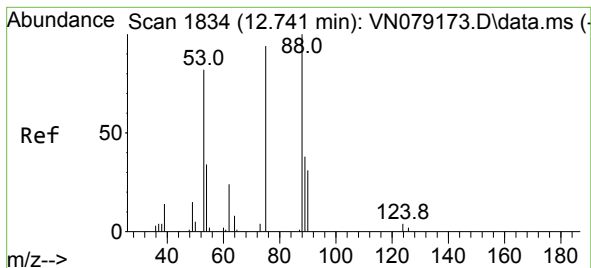
Tgt Ion: 75 Resp: 15514

Ion Ratio Lower Upper

75 100

77 0.0 0.0 252.2

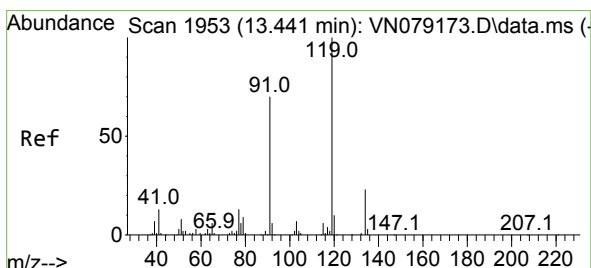
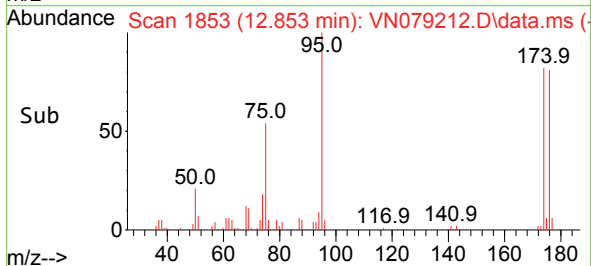
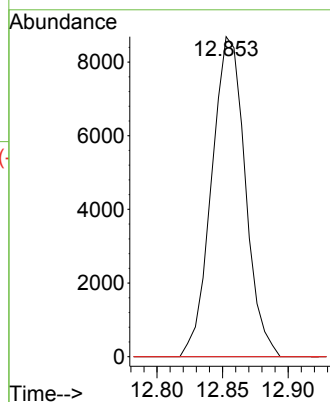
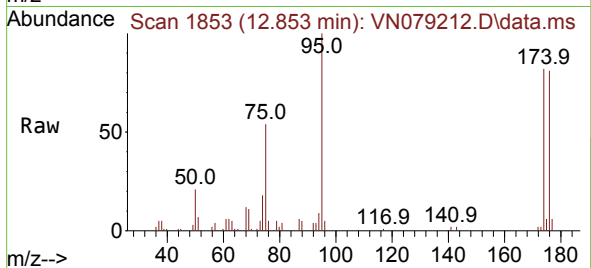




#77
 t-1,4-Dichloro-2-butene
 Concen: 28.537 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN079212.D
 Acq: 11 Sep 2023 12:16

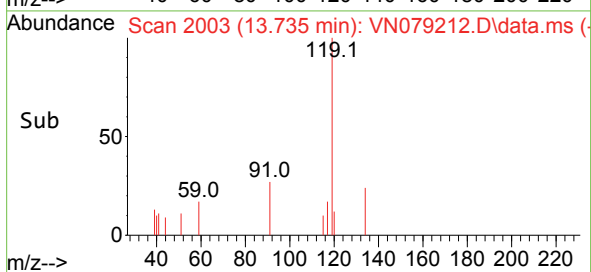
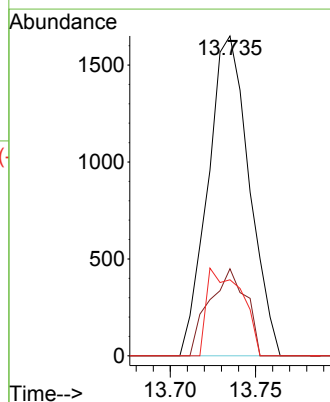
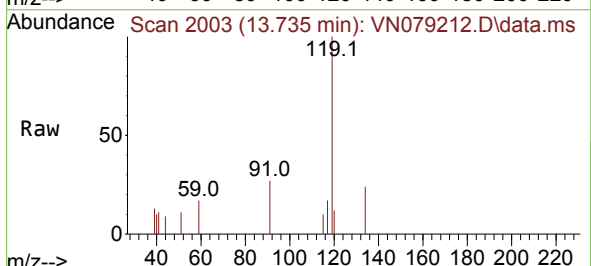
Instrument :
 MSVOA_N
 ClientSampleId :

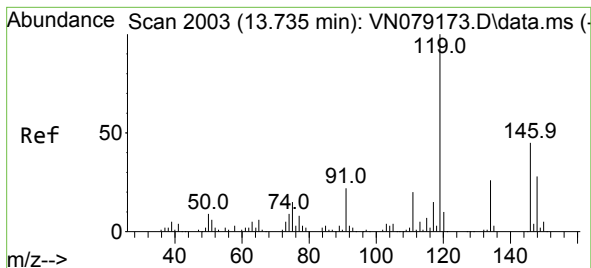
Tgt Ion: 75 Resp: 15514
 Ion Ratio Lower Upper
 75 100
 53 0.0 44.1 132.4#
 89 0.0 22.4 67.3#



#79
 tert-butylbenzene
 Concen: 0.834 ug/l
 RT: 13.735 min Scan# 2003
 Delta R.T. 0.294 min
 Lab File: VN079212.D
 Acq: 11 Sep 2023 12:16

Tgt Ion: 119 Resp: 2776
 Ion Ratio Lower Upper
 119 100
 91 24.3 0.0 130.8
 134 23.0 0.0 48.8





#82

p-Isopropyltoluene

Concen: 0.771 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN079212.D

Acq: 11 Sep 2023 12:16

Instrument :

MSVOA_N

ClientSampleId :

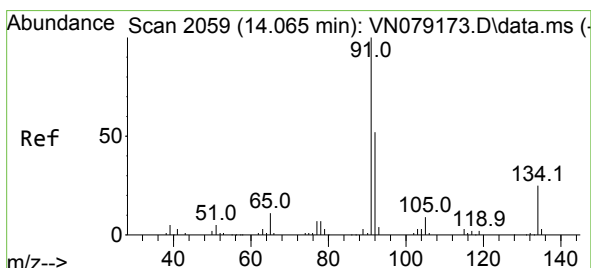
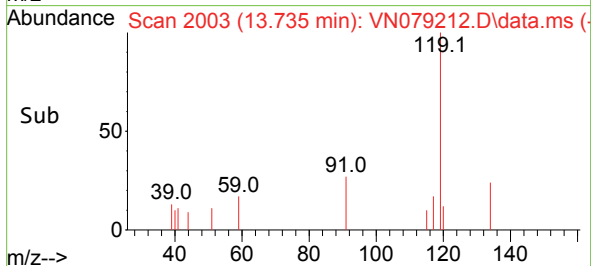
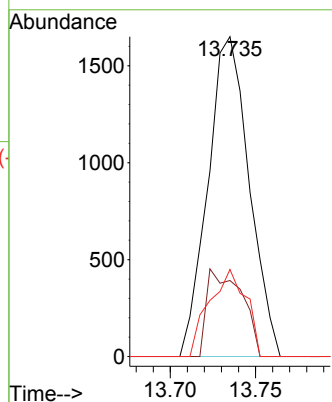
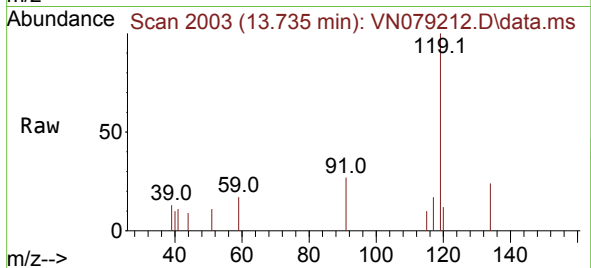
Tgt Ion:119 Resp: 2776

Ion Ratio Lower Upper

119 100

134 23.0 0.0 53.8

91 24.3 0.0 48.0



#85

n-Butylbenzene

Concen: 0.246 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.330 min

Lab File: VN079212.D

Acq: 11 Sep 2023 12:16

Tgt Ion: 91 Resp: 675

Ion Ratio Lower Upper

91 100

92 0.0 0.0 105.0

134 94.7 0.0 49.6#

