

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090723\
 Data File : VN079179.D
 Acq On : 07 Sep 2023 17:07
 Operator : JC\MD
 Sample : VN0907WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 08 05:43:31 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)

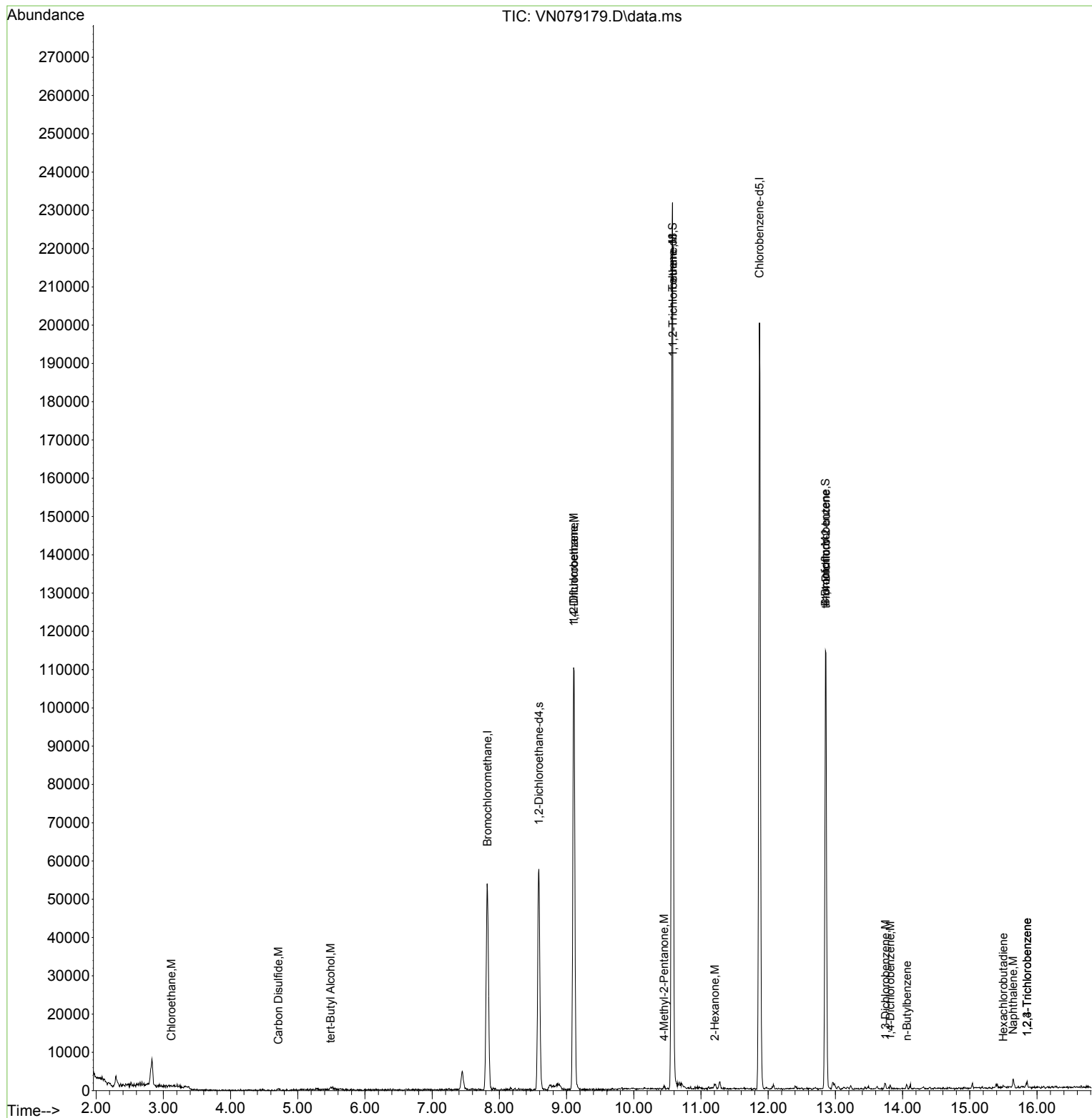
Internal Standards						
1) Bromochloromethane	7.824	128	19435	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	99606	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	125010	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	48697	33.350	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	111.167%#
60) 4-Bromofluorobenzene	12.853	95	43489	23.610	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	78.700%
63) Toluene-d8	10.577	98	170063	29.110	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.033%
Target Compounds						
					Qvalue	
6) Chloroethane	3.118	64	404	0.613	ug/l #	50
16) Carbon Disulfide	4.712	76	679	0.336	ug/l #	76
23) tert-Butyl Alcohol	5.489	59	128	0.712	ug/l #	100
36) 1,2-Dichloroethane	9.106	62	3484	2.082	ug/l #	73
50) 1,1,2-Trichloroethane	10.582	97	5050	4.171	ug/l #	1
56) Bromoform	12.853	173	189	0.214	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	460	0.201	ug/l #	41
59) 2-Hexanone	11.206	43	1008	0.626	ug/l #	68
77) t-1,4-Dichloro-2-butene	12.859	75	21826	29.136	ug/l #	14
83) 1,3-Dichlorobenzene	13.747	146	555	0.207	ug/l #	71
84) 1,4-Dichlorobenzene	13.817	146	604	0.240	ug/l #	48
85) n-Butylbenzene	14.065	91	952	0.252	ug/l	66
89) 1,2,4-Trichlorobenzene	15.853	180	797	0.704	ug/l #	89
90) Hexachlorobutadiene	15.500	225	408	0.593	ug/l #	38
91) Naphthalene	15.647	128	2781	0.940	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.853	180	797	0.704	ug/l	89

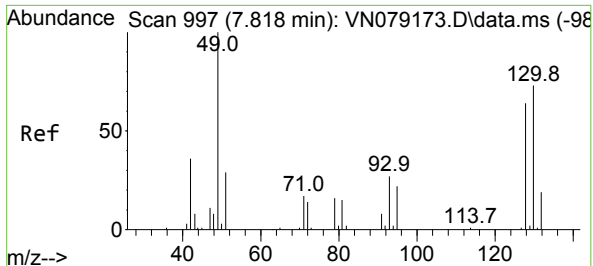
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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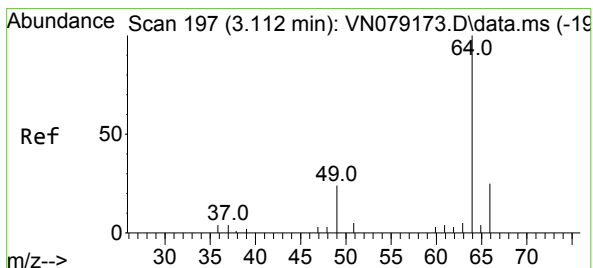
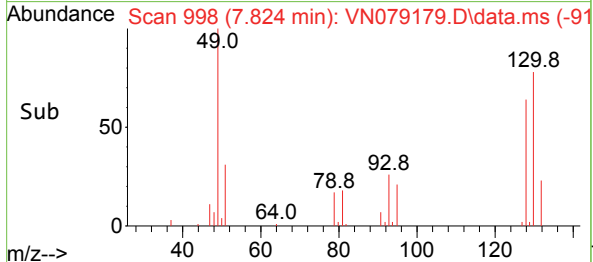
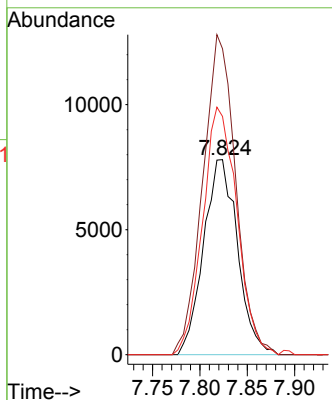
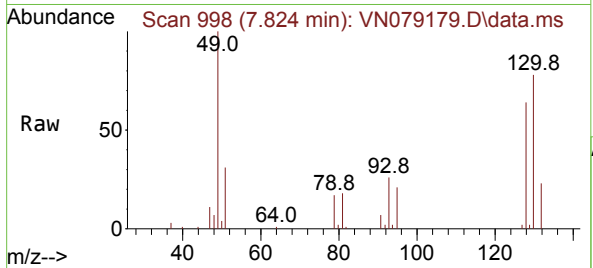




#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.824 min Scan# 998
 Delta R.T. 0.006 min
 Lab File: VN079179.D
 Acq: 07 Sep 2023 17:07

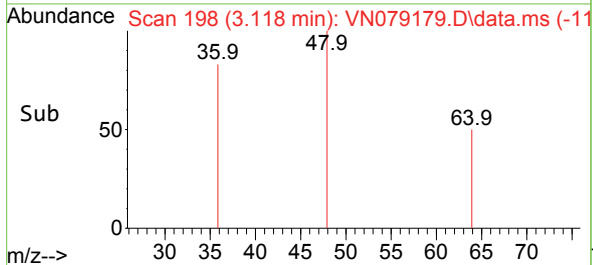
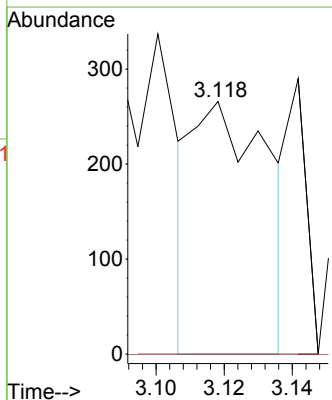
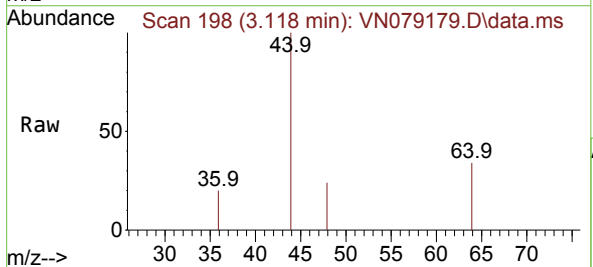
Instrument :
 MSVOA_N
 ClientSampleId :

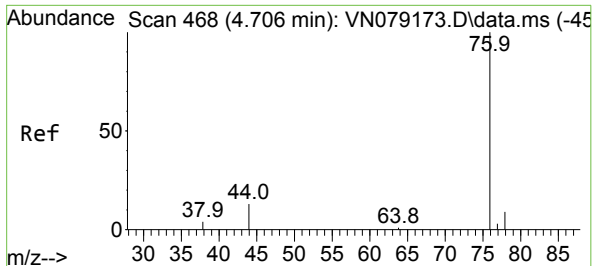
Tgt Ion:	128	Resp:	19435
Ion	Ratio	Lower	Upper
128	100		
49	158.9	0.0	414.3
130	128.4	0.0	311.0



#6
 Chloroethane
 Concen: 0.613 ug/l
 RT: 3.118 min Scan# 198
 Delta R.T. 0.006 min
 Lab File: VN079179.D
 Acq: 07 Sep 2023 17:07

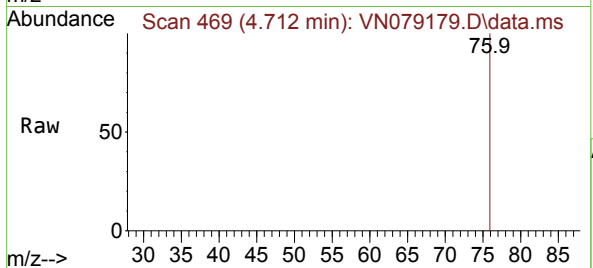
Tgt Ion:	64	Resp:	404
Ion	Ratio	Lower	Upper
64	100		
66	0.0	20.1	30.1



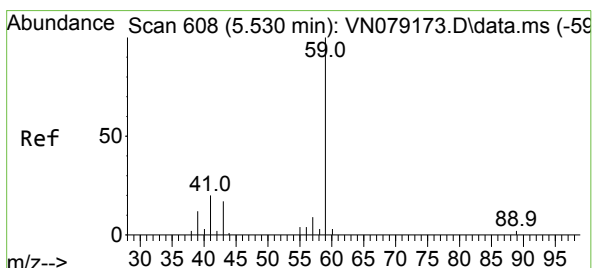
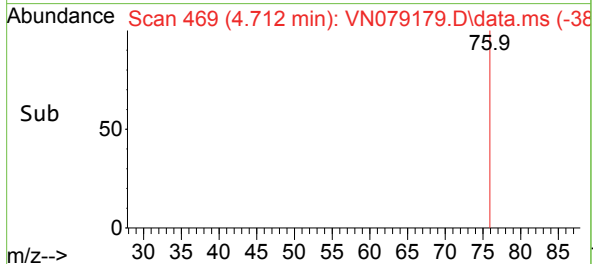
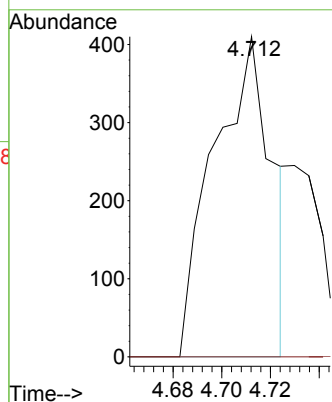


#16
Carbon Disulfide
Concen: 0.336 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN079179.D
Acq: 07 Sep 2023 17:07

Instrument :
MSVOA_N
ClientSampleId :

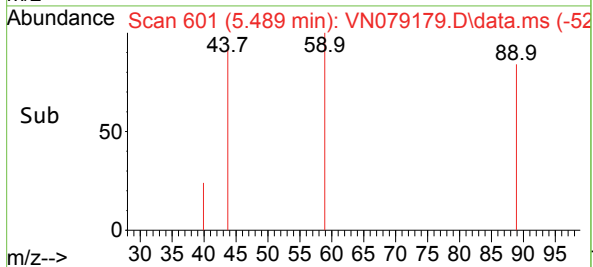
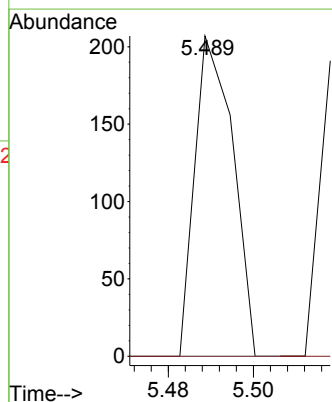
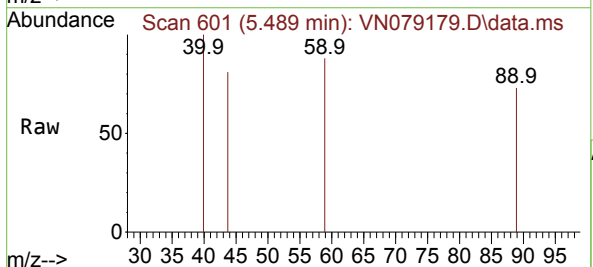


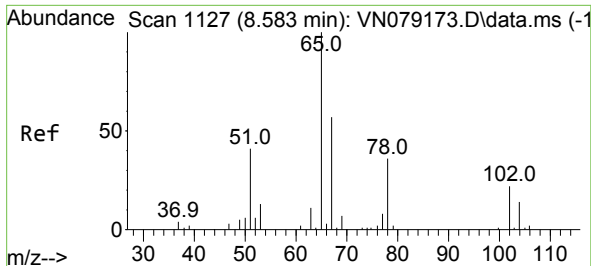
Tgt Ion: 76 Resp: 679
Ion Ratio Lower Upper
76 100
78 0.0 6.9 10.3#



#23
tert-Butyl Alcohol
Concen: 0.712 ug/l
RT: 5.489 min Scan# 601
Delta R.T. -0.041 min
Lab File: VN079179.D
Acq: 07 Sep 2023 17:07

Tgt Ion: 59 Resp: 128
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 33.350 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.005 min

Lab File: VN079179.D

Acq: 07 Sep 2023 17:07

Instrument :

MSVOA_N

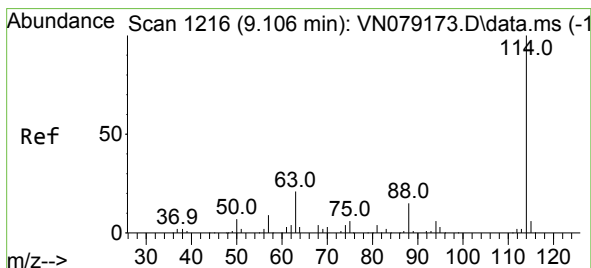
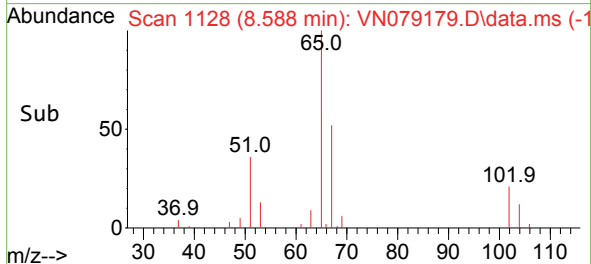
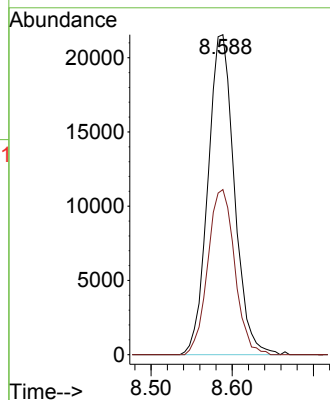
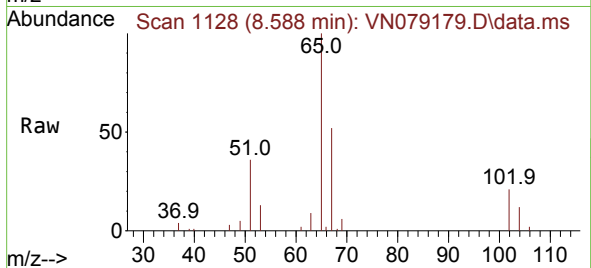
ClientSampleId :

Tgt Ion: 65 Resp: 48697

Ion Ratio Lower Upper

65 100

67 52.6 44.4 66.6



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN079179.D

Acq: 07 Sep 2023 17:07

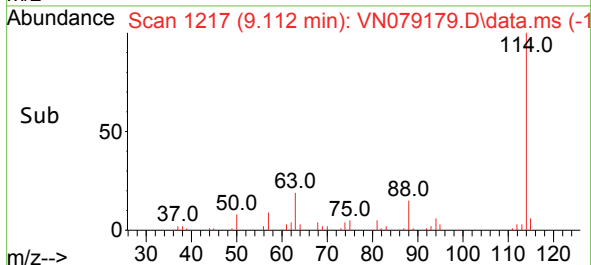
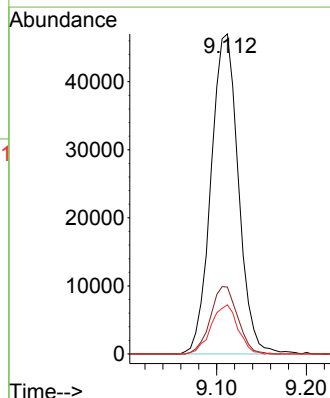
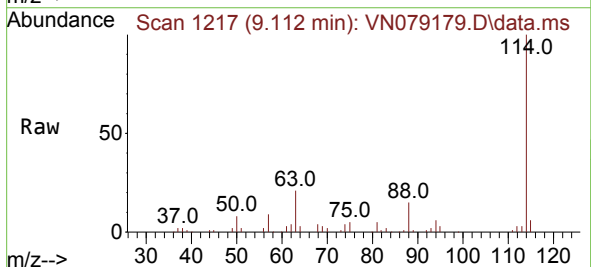
Tgt Ion: 114 Resp: 99606

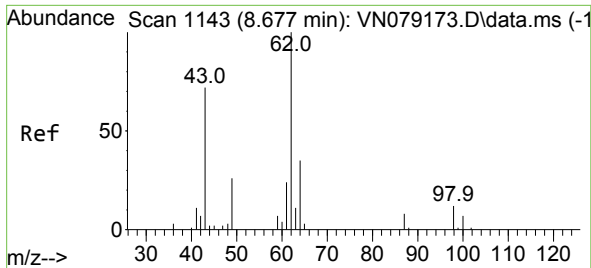
Ion Ratio Lower Upper

114 100

63 20.9 17.0 25.4

88 15.0 12.8 19.2

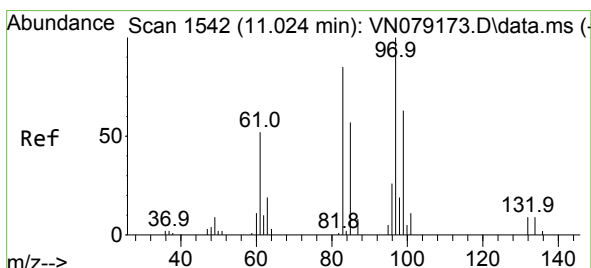
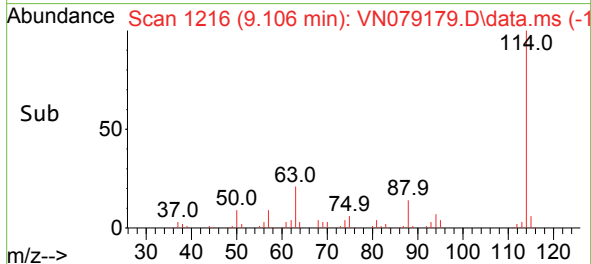
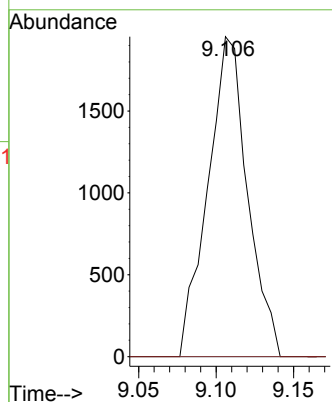
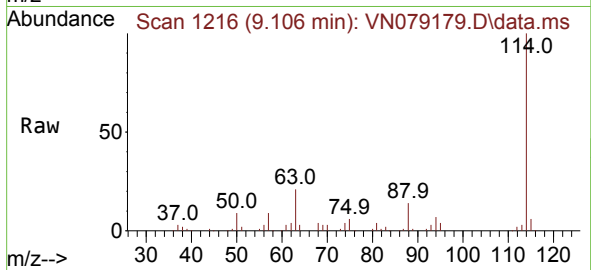




#36
1,2-Dichloroethane
Concen: 2.082 ug/l
RT: 9.106 min Scan# 1143
Delta R.T. 0.429 min
Lab File: VN079179.D
Acq: 07 Sep 2023 17:07

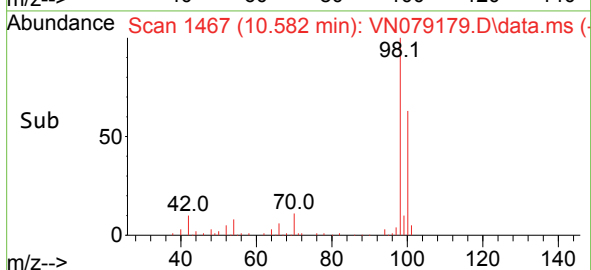
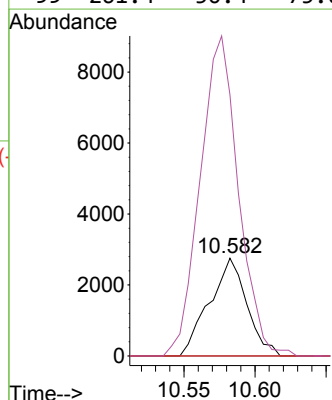
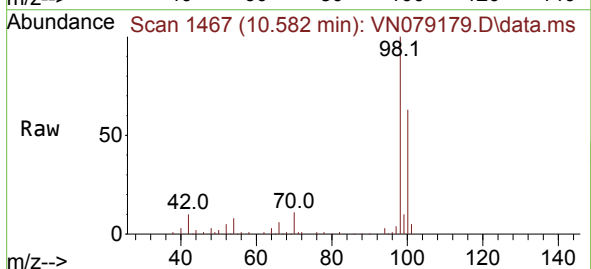
Instrument :
MSVOA_N
ClientSampleId :

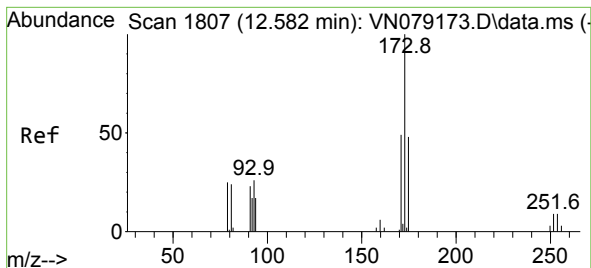
Tgt Ion: 62 Resp: 3484
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#



#50
1,1,2-Trichloroethane
Concen: 4.171 ug/l
RT: 10.582 min Scan# 1467
Delta R.T. -0.442 min
Lab File: VN079179.D
Acq: 07 Sep 2023 17:07

Tgt Ion: 97 Resp: 5050
Ion Ratio Lower Upper
97 100
83 0.0 68.9 103.3#
85 0.0 45.3 67.9#
99 261.4 50.4 75.6#





#56

Bromoform

Concen: 0.214 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

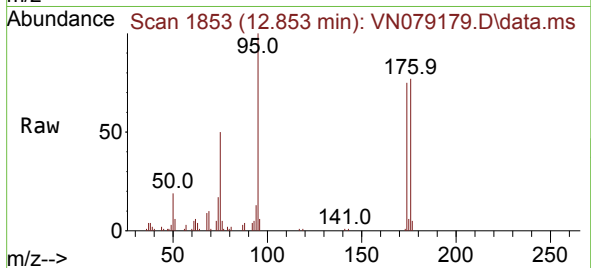
Lab File: VN079179.D

Acq: 07 Sep 2023 17:07

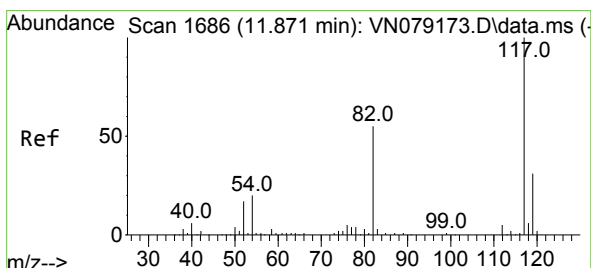
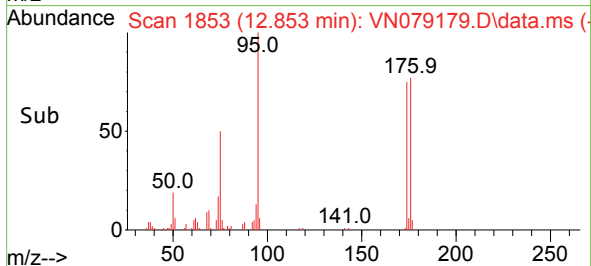
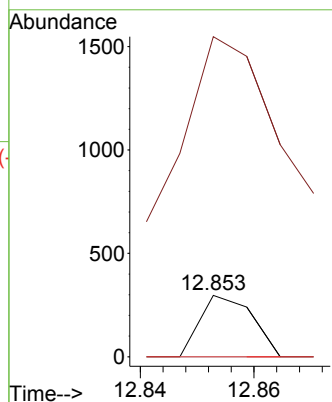
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	189
Ion Ratio	Lower	Upper	
173	100		
175	1314.8	37.6	56.4#
254	0.0	7.8	11.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

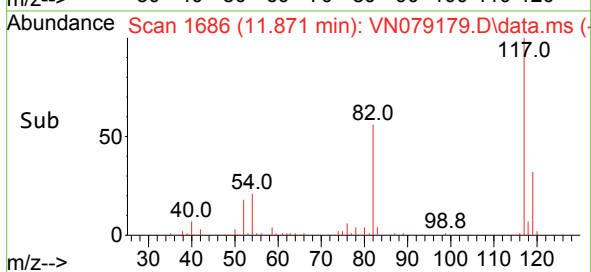
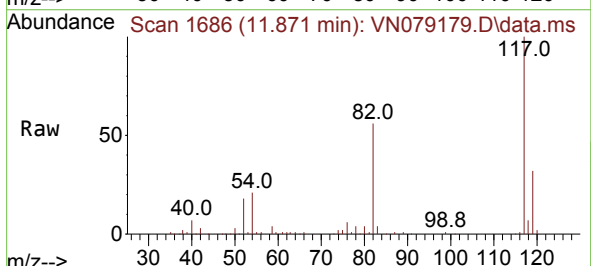
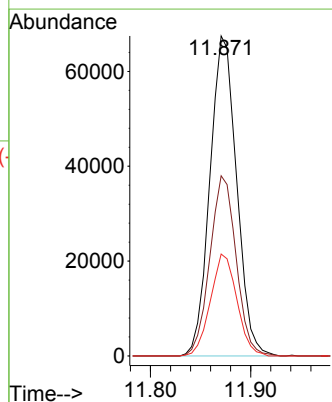
RT: 11.871 min Scan# 1686

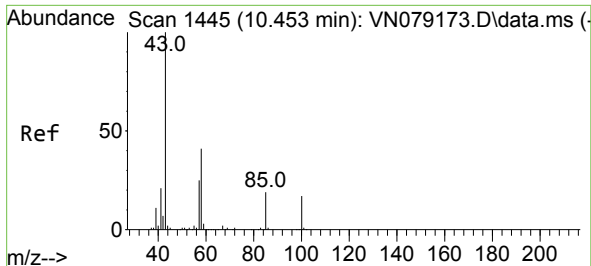
Delta R.T. -0.000 min

Lab File: VN079179.D

Acq: 07 Sep 2023 17:07

Tgt Ion:	117	Resp:	125010
Ion Ratio	Lower	Upper	
117	100		
82	55.4	44.7	67.1
119	31.5	24.9	37.3

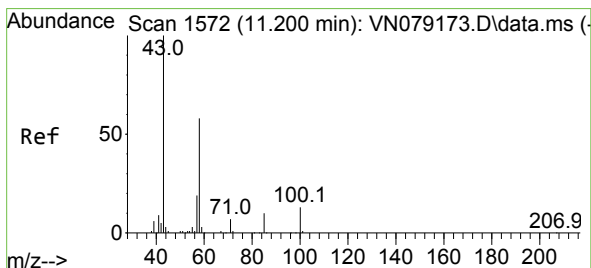
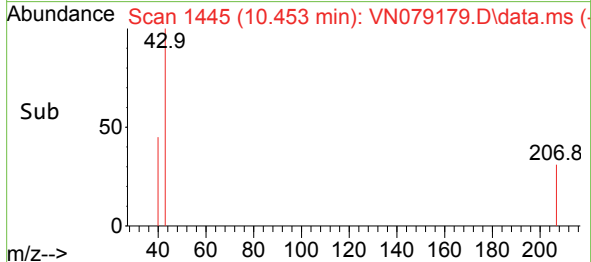
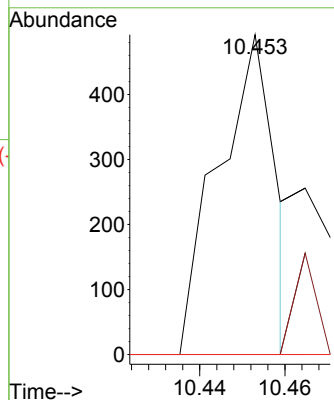
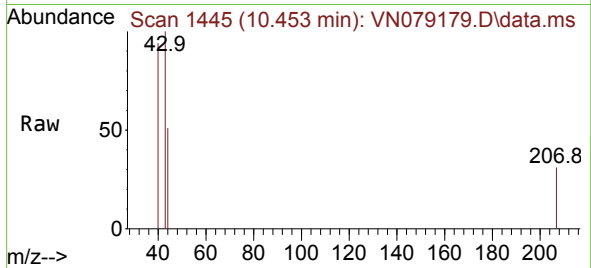




#58
4-Methyl-2-Pentanone
Concen: 0.201 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN079179.D
Acq: 07 Sep 2023 17:07

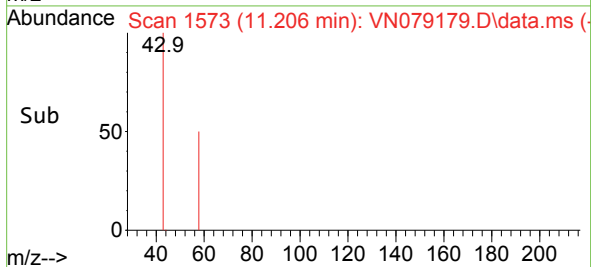
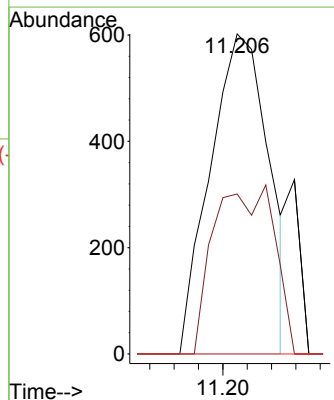
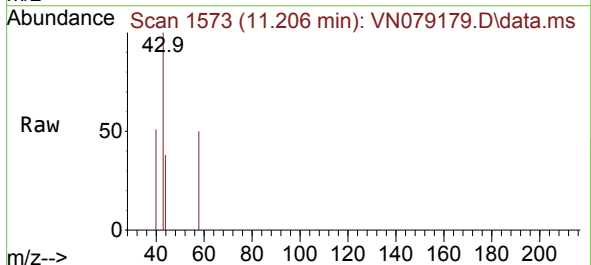
Instrument :
MSVOA_N
ClientSampleId :

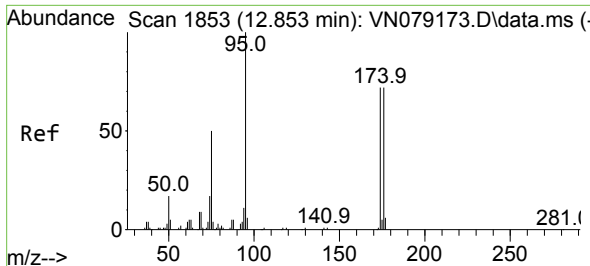
Tgt Ion: 43 Resp: 460
Ion Ratio Lower Upper
43 100
58 0.0 33.6 50.4#
85 0.0 15.0 22.4#



#59
2-Hexanone
Concen: 0.626 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN079179.D
Acq: 07 Sep 2023 17:07

Tgt Ion: 43 Resp: 1008
Ion Ratio Lower Upper
43 100
58 37.1 46.4 69.6#
57 0.0 15.3 22.9#

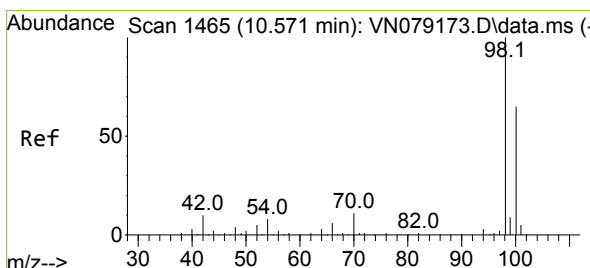
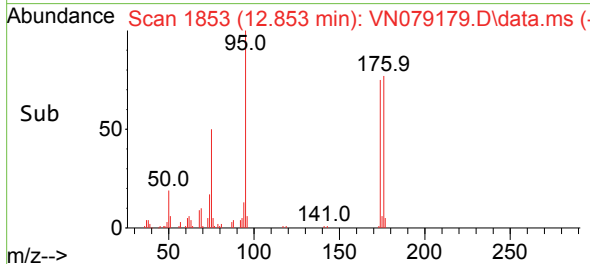
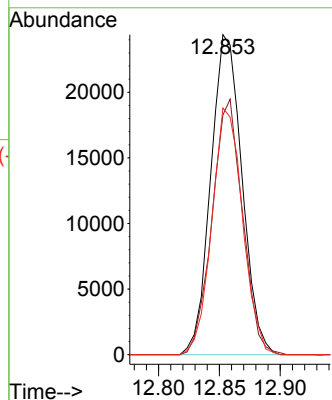
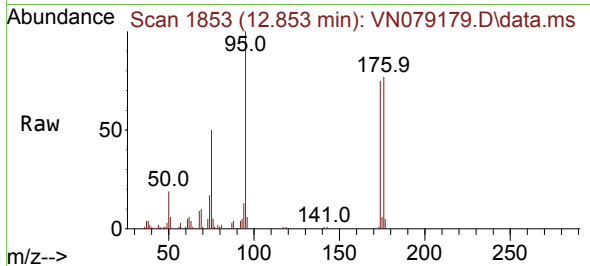




#60
4-Bromofluorobenzene
Concen: 23.610 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079179.D
Acq: 07 Sep 2023 17:07

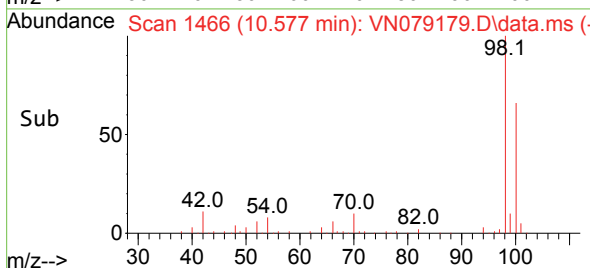
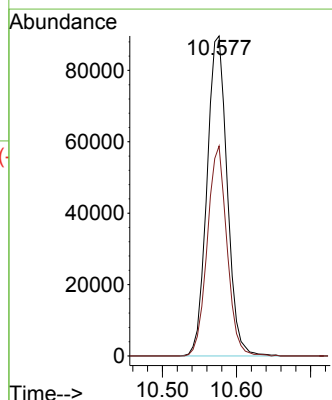
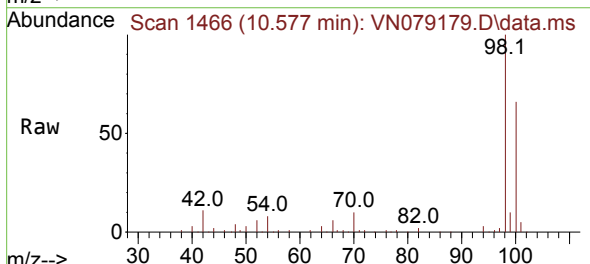
Instrument :
MSVOA_N
ClientSampleId :

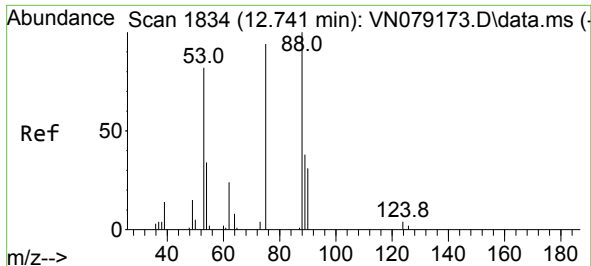
Tgt Ion: 95 Resp: 43489
Ion Ratio Lower Upper
95 100
174 77.7 59.5 89.3
176 75.9 59.1 88.7



#63
Toluene-d8
Concen: 29.110 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN079179.D
Acq: 07 Sep 2023 17:07

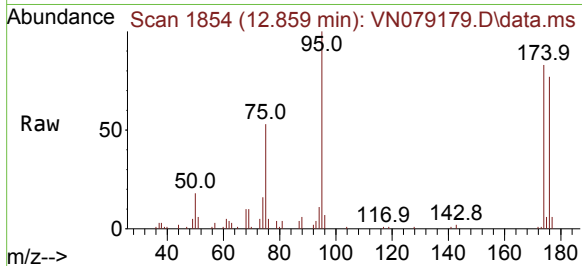
Tgt Ion: 98 Resp: 170063
Ion Ratio Lower Upper
98 100
100 63.8 52.5 78.7



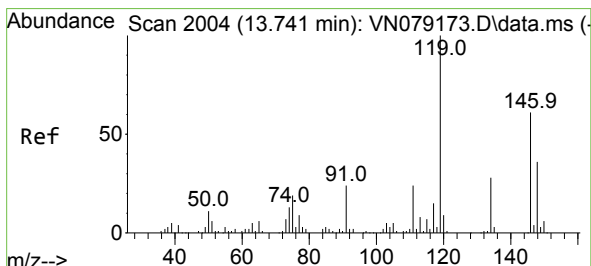
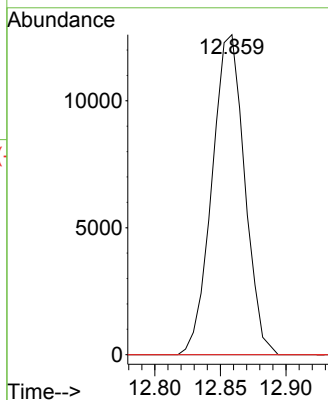
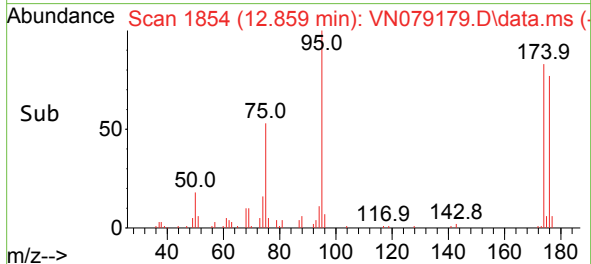


#77
t-1,4-Dichloro-2-butene
Concen: 29.136 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN079179.D
Acq: 07 Sep 2023 17:07

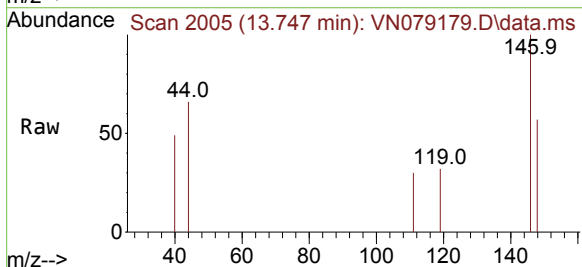
Instrument :
MSVOA_N
ClientSampleId :



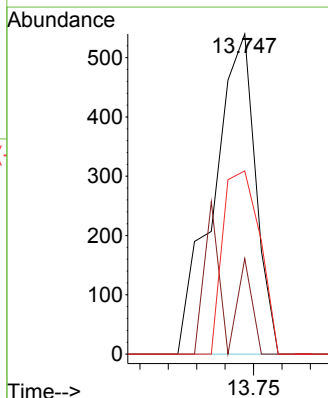
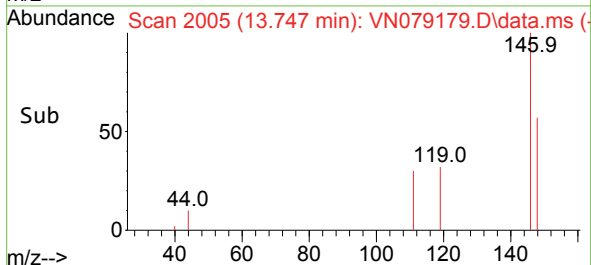
Tgt Ion: 75 Resp: 21826
Ion Ratio Lower Upper
75 100
53 0.0 44.1 132.4#
89 0.0 22.4 67.3#

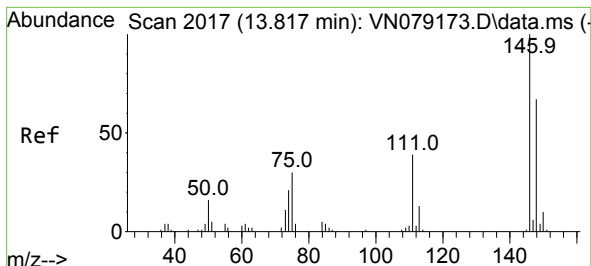


#83
1,3-Dichlorobenzene
Concen: 0.207 ug/l
RT: 13.747 min Scan# 2005
Delta R.T. 0.006 min
Lab File: VN079179.D
Acq: 07 Sep 2023 17:07



Tgt Ion: 146 Resp: 555
Ion Ratio Lower Upper
146 100
111 10.3 20.5 61.5#
148 50.5 31.8 95.3





#84

1,4-Dichlorobenzene

Concen: 0.240 ug/l

RT: 13.817 min Scan# 2017

Delta R.T. 0.000 min

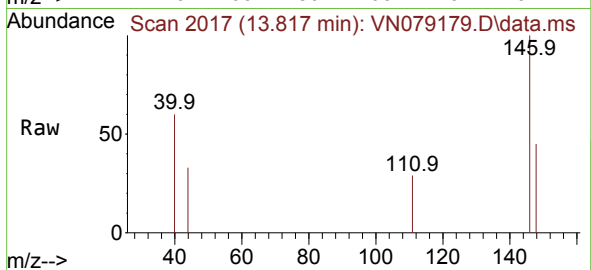
Lab File: VN079179.D

Acq: 07 Sep 2023 17:07

Instrument :

MSVOA_N

ClientSampleId :



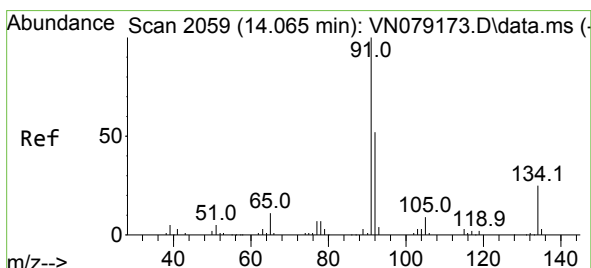
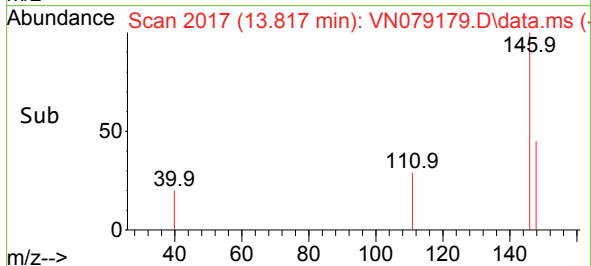
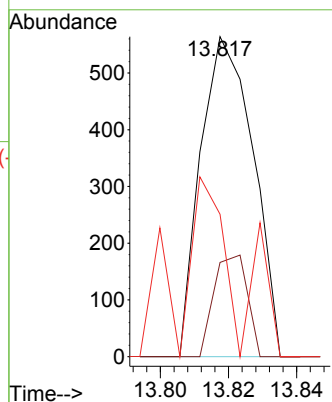
Tgt Ion:146 Resp: 604

Ion Ratio Lower Upper

146 100

111 20.2 19.5 58.5

148 13.7 32.1 96.5#



#85

n-Butylbenzene

Concen: 0.252 ug/l

RT: 14.065 min Scan# 2059

Delta R.T. -0.000 min

Lab File: VN079179.D

Acq: 07 Sep 2023 17:07

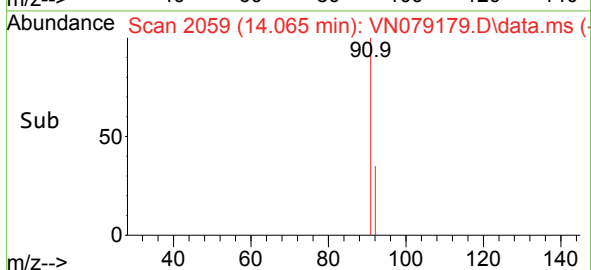
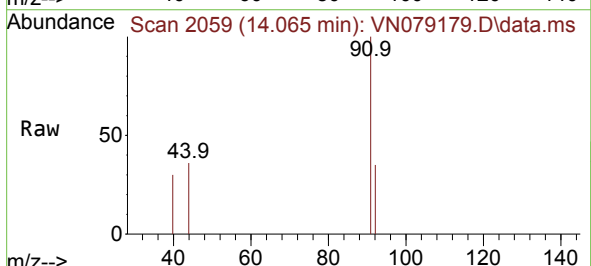
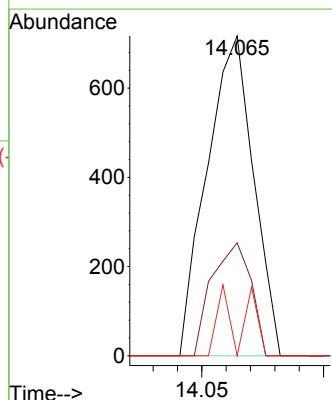
Tgt Ion: 91 Resp: 952

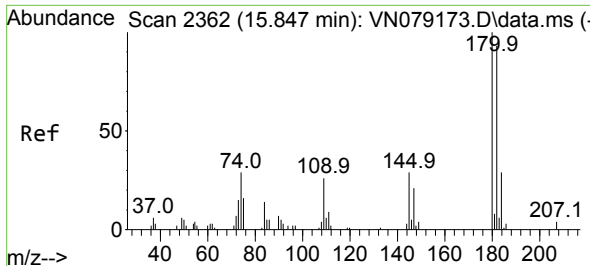
Ion Ratio Lower Upper

91 100

92 29.7 0.0 105.0

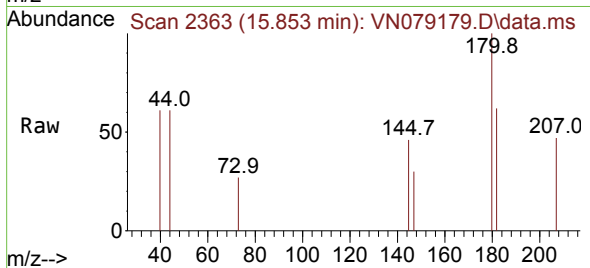
134 5.9 0.0 49.6



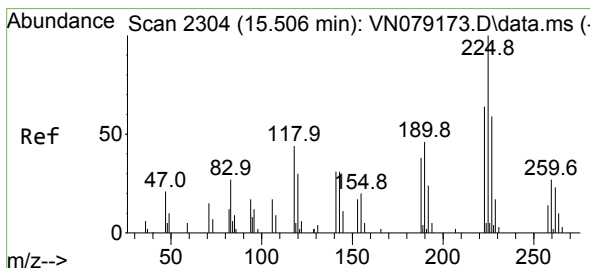
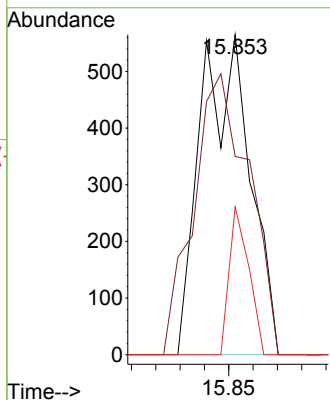
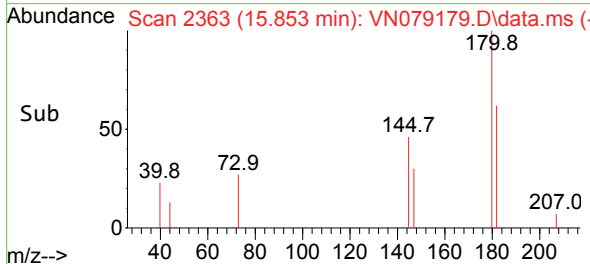


#89
1,2,4-Trichlorobenzene
Concen: 0.704 ug/l
RT: 15.853 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN079179.D
Acq: 07 Sep 2023 17:07

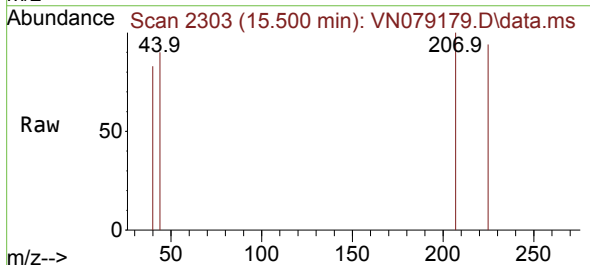
Instrument :
MSVOA_N
ClientSampleId :



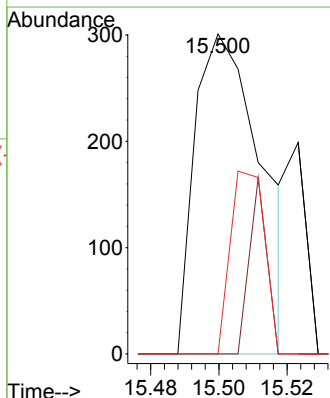
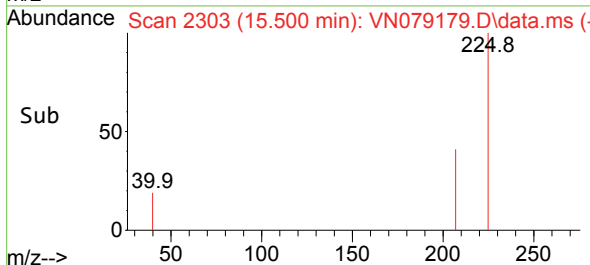
Tgt Ion:180 Resp: 797
Ion Ratio Lower Upper
180 100
182 98.2 74.5 111.7
145 18.2 26.2 39.2#

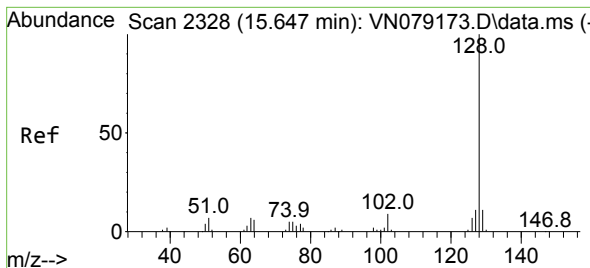


#90
Hexachlorobutadiene
Concen: 0.593 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.006 min
Lab File: VN079179.D
Acq: 07 Sep 2023 17:07



Tgt Ion:225 Resp: 408
Ion Ratio Lower Upper
225 100
223 0.0 0.0 125.6
227 29.2 0.0 124.0





#91

Naphthalene

Concen: 0.940 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. -0.000 min

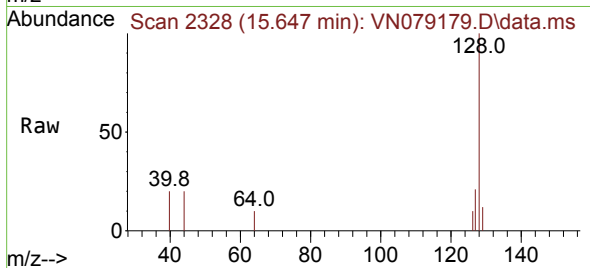
Lab File: VN079179.D

Acq: 07 Sep 2023 17:07

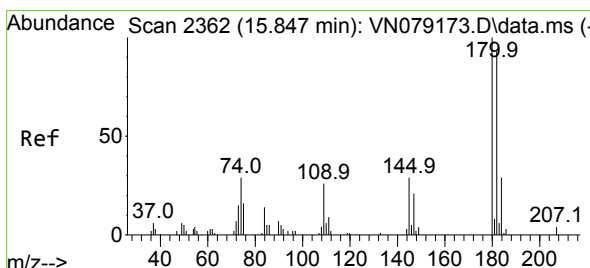
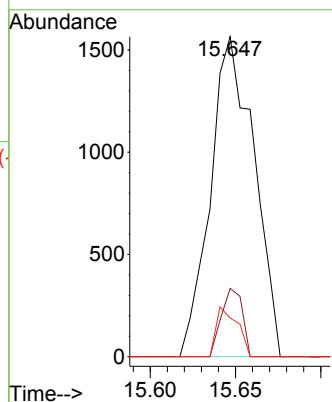
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128	Resp:	2781
Ion	Ratio	Lower Upper
128	100	
127	10.2	10.1 15.1
129	7.5	8.5 12.7#



#92

1,2,3-Trichlorobenzene

Concen: 0.704 ug/l

RT: 15.853 min Scan# 2363

Delta R.T. 0.006 min

Lab File: VN079179.D

Acq: 07 Sep 2023 17:07

Tgt Ion:180	Resp:	797
Ion	Ratio	Lower Upper
180	100	
182	98.2	0.0 186.2
145	18.2	0.0 65.4

