

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082823\
 Data File : VN079060.D
 Acq On : 28 Aug 2023 12:10
 Operator : JC\MD
 Sample : VN0828WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 29 05:21:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

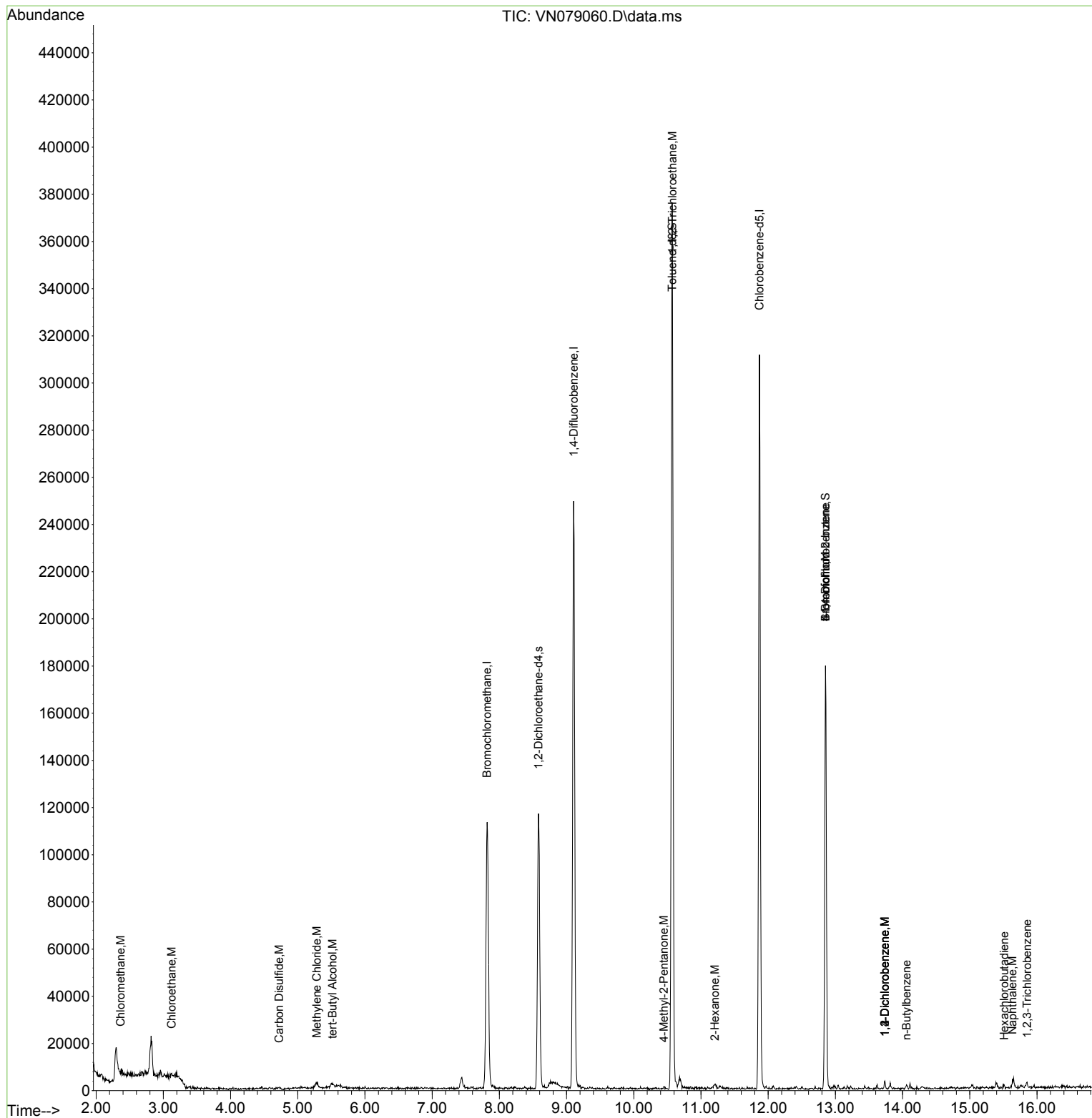
Internal Standards						
1) Bromochloromethane	7.818	128	37390	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	209828	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	174584	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	95240	31.441	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.800%
60) 4-Bromofluorobenzene	12.853	95	58379	22.924	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	76.400%
63) Toluene-d8	10.571	98	249542	30.608	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.033%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1086	0.384	ug/l	96
6) Chloroethane	3.124	64	969	0.533	ug/l #	44
16) Carbon Disulfide	4.724	76	1773	0.312	ug/l #	76
18) Methylene Chloride	5.283	84	1212	0.512	ug/l #	75
23) tert-Butyl Alcohol	5.518	59	431	0.947	ug/l #	100
50) 1,1,2-Trichloroethane	10.576	97	8487	3.636	ug/l #	1
56) Bromoform	12.853	173	521	0.289	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	959	0.277	ug/l #	46
59) 2-Hexanone	11.206	43	1048	0.413	ug/l #	68
77) t-1,4-Dichloro-2-butene	12.853	75	33163	32.673	ug/l #	3
83) 1,3-Dichlorobenzene	13.735	146	1082	0.297	ug/l	74
84) 1,4-Dichlorobenzene	13.735	146	1082	0.302	ug/l	78
85) n-Butylbenzene	14.059	91	1335	0.265	ug/l	60
87) 1,2-Dichlorobenzene	13.735	146	1082	0.290	ug/l	76
90) Hexachlorobutadiene	15.511	225	179	0.233	ug/l	48
91) Naphthalene	15.635	128	2641	0.620	ug/l #	81
92) 1,2,3-Trichlorobenzene	15.853	180	776	0.526	ug/l	65

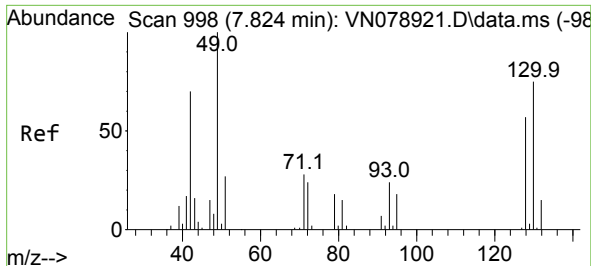
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082823\
Data File : VN079060.D
Acq On : 28 Aug 2023 12:10
Operator : JC\MD
Sample : VN0828WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

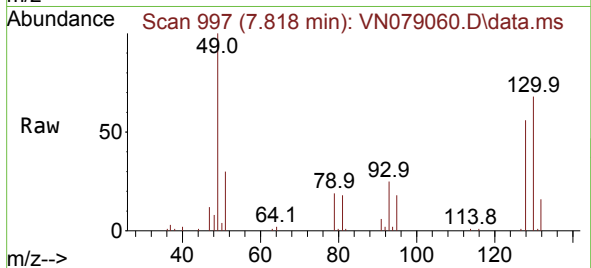
Quant Time: Aug 29 05:21:02 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 18 05:21:14 2023
Response via : Initial Calibration



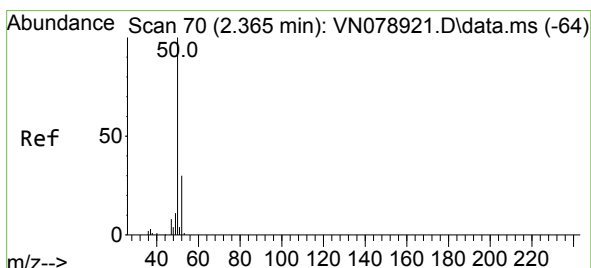
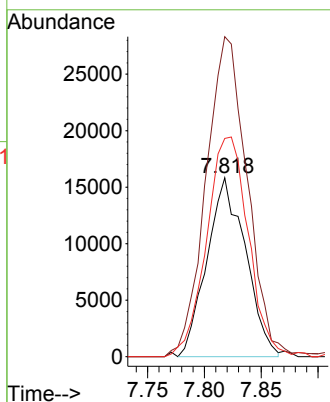
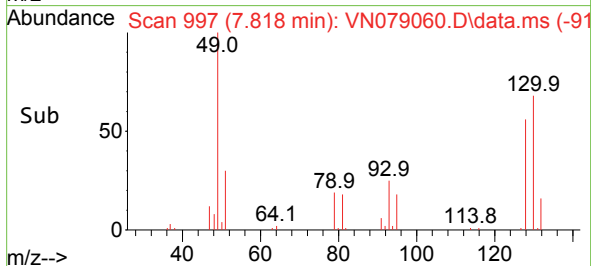


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 998
Delta R.T. -0.006 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

Instrument :
MSVOA_N
ClientSampleId :

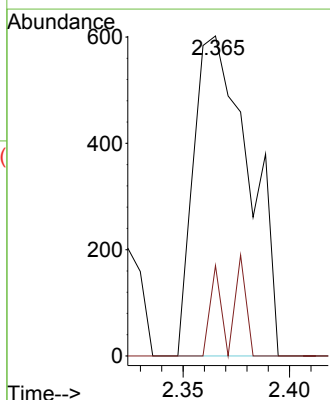
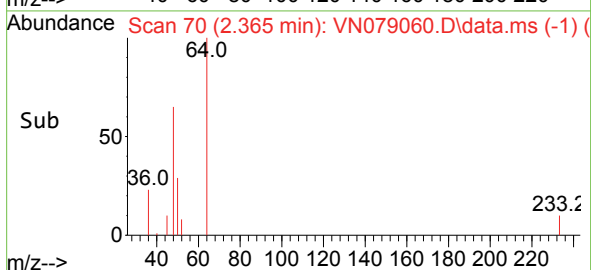
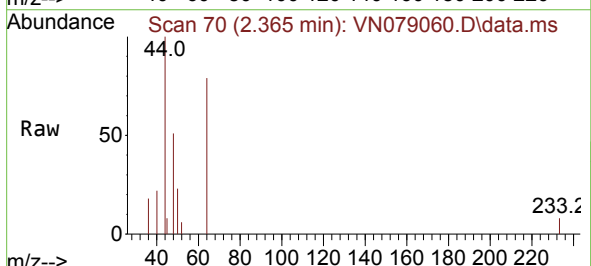


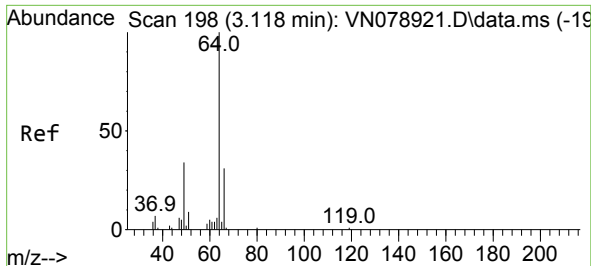
Tgt Ion:128 Resp: 37390
Ion Ratio Lower Upper
128 100
49 190.3 0.0 481.8
130 132.6 0.0 320.5



#3
Chloromethane
Concen: 0.384 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

Tgt Ion: 50 Resp: 1086
Ion Ratio Lower Upper
50 100
52 28.2 24.2 36.4

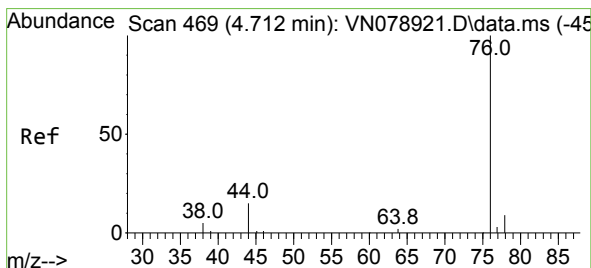
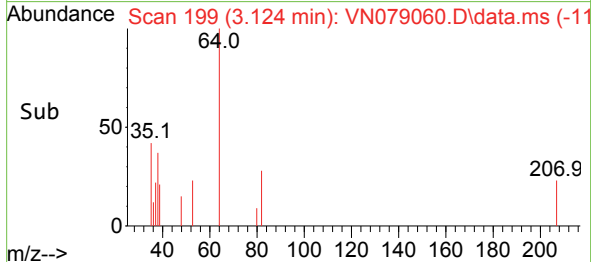
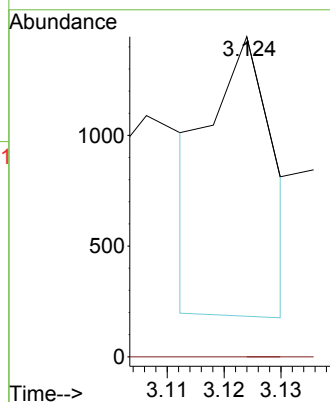
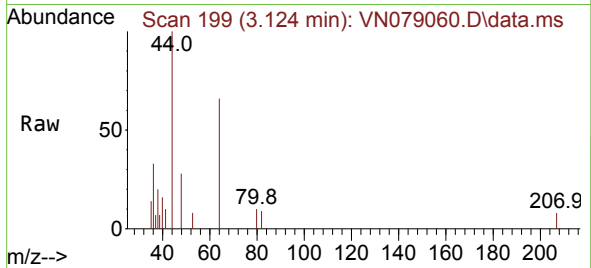




#6
Chloroethane
Concen: 0.533 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

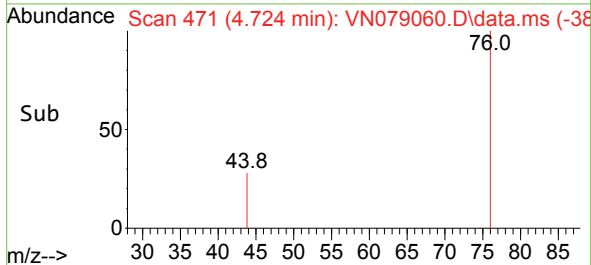
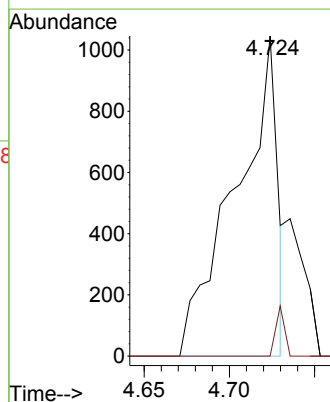
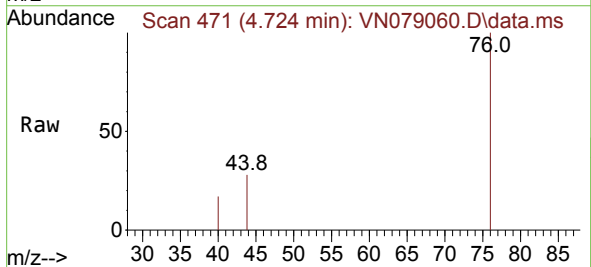
Instrument :
MSVOA_N
ClientSampleId :

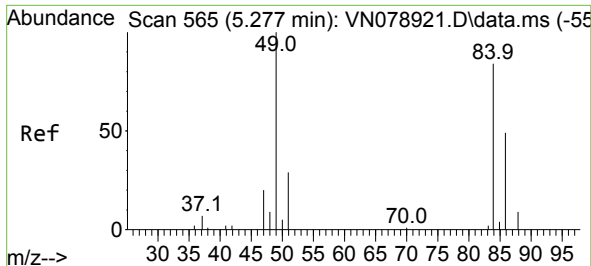
Tgt Ion: 64 Resp: 969
Ion Ratio Lower Upper
64 100
66 0.0 24.9 37.3#



#16
Carbon Disulfide
Concen: 0.312 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.012 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

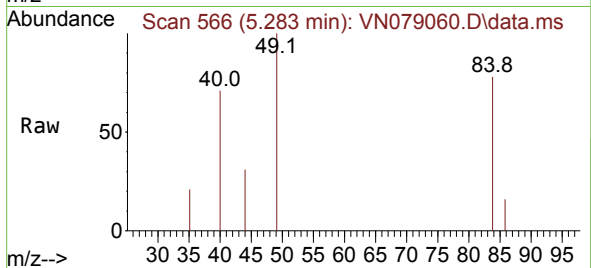
Tgt Ion: 76 Resp: 1773
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



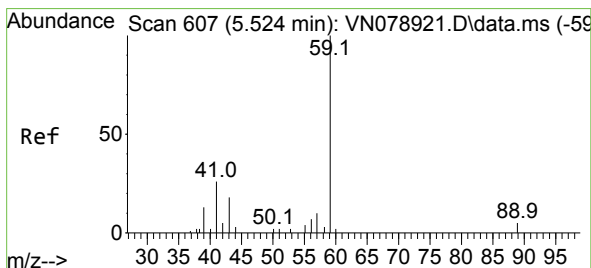
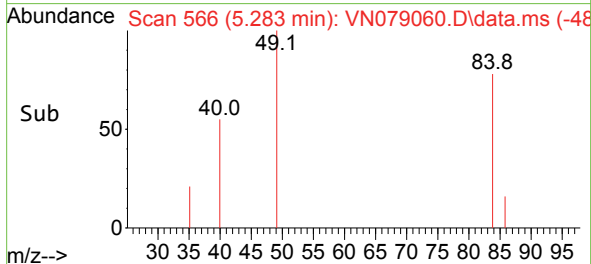
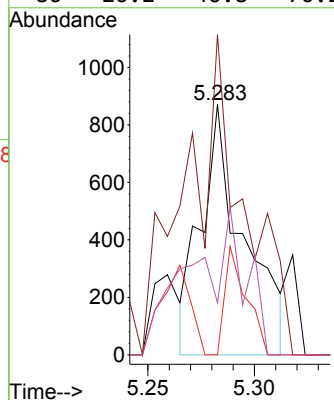


#18
Methylene Chloride
Concen: 0.512 ug/l
RT: 5.283 min Scan# 501
Delta R.T. 0.006 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

Instrument :
MSVOA_N
ClientSampleId :

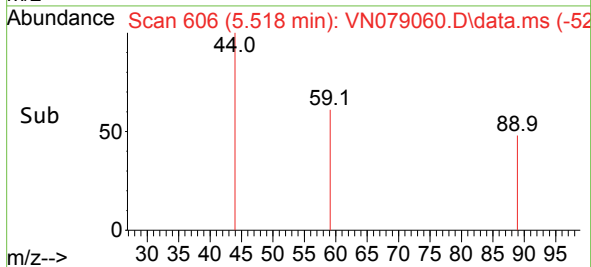
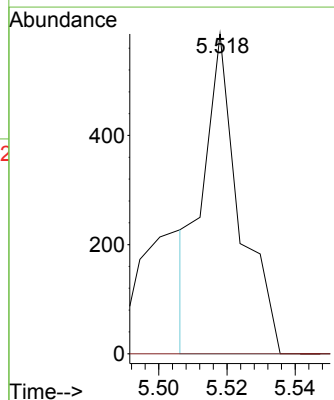
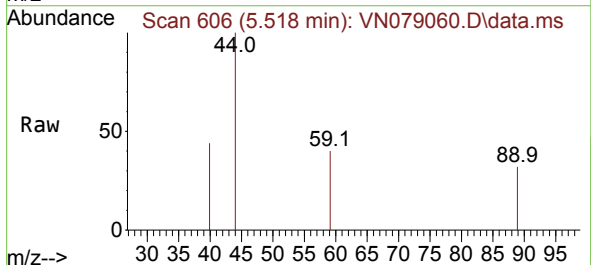


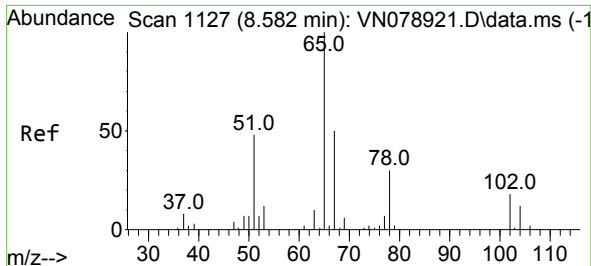
Tgt Ion:	84	Resp:	1212
Ion	Ratio	Lower	Upper
84	100		
49	113.9	95.8	143.6
51	0.0	28.6	43.0#
86	26.2	46.8	70.2#



#23
tert-Butyl Alcohol
Concen: 0.947 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

Tgt Ion:	59	Resp:	431
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#27

1,2-Dichloroethane-d4

Concen: 31.441 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079060.D

Acq: 28 Aug 2023 12:10

Instrument :

MSVOA_N

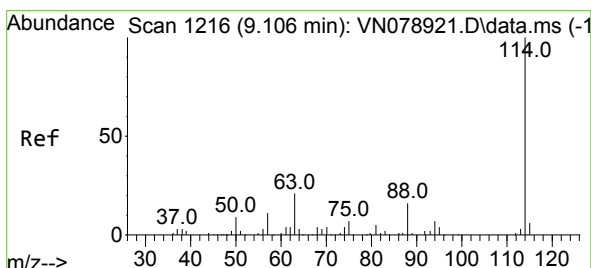
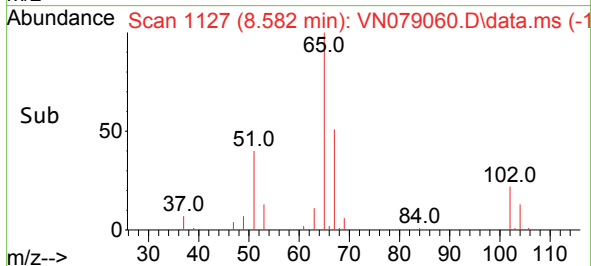
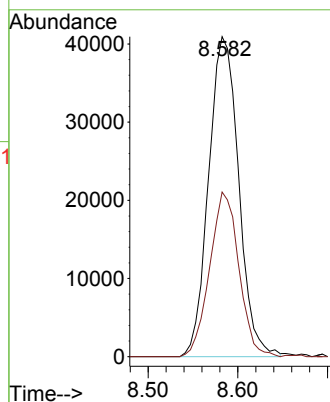
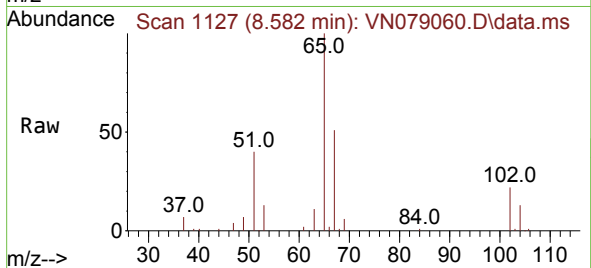
ClientSampleId :

Tgt Ion: 65 Resp: 95240

Ion Ratio Lower Upper

65 100

67 49.9 40.7 61.1



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079060.D

Acq: 28 Aug 2023 12:10

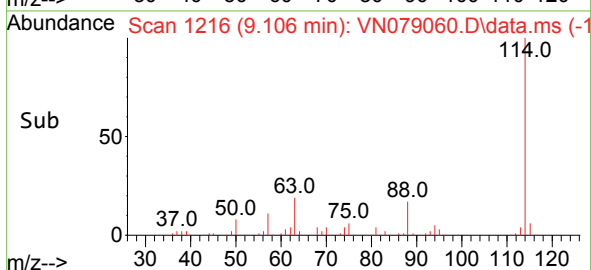
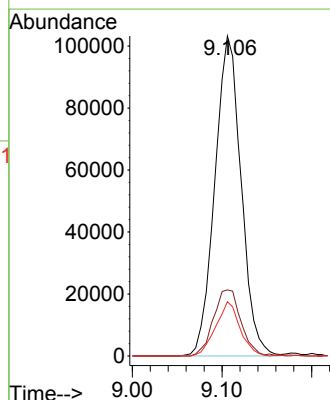
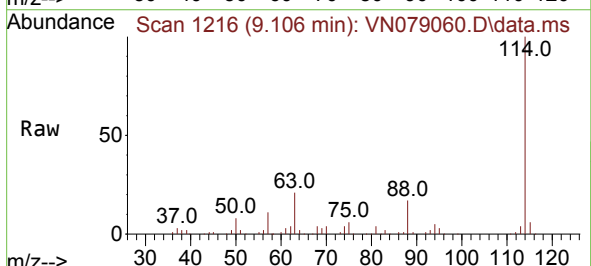
Tgt Ion: 114 Resp: 209828

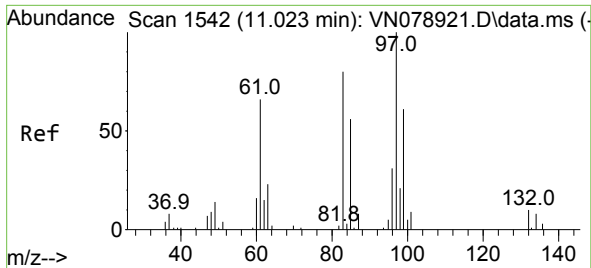
Ion Ratio Lower Upper

114 100

63 21.7 17.4 26.2

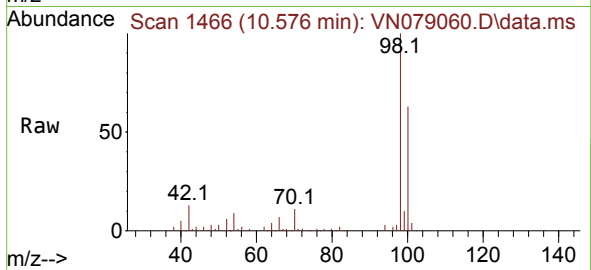
88 15.7 12.0 18.0



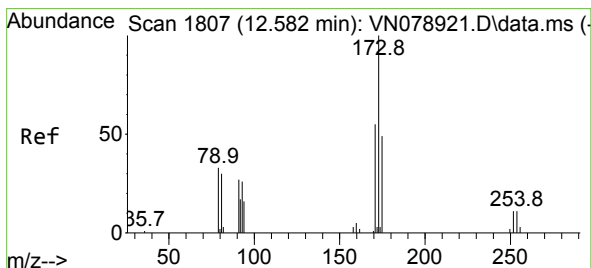
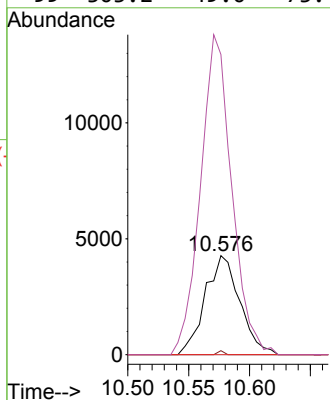
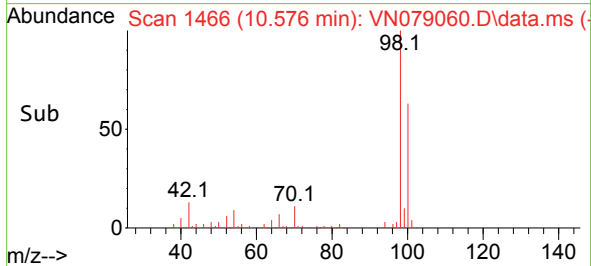


#50
1,1,2-Trichloroethane
Concen: 3.636 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.447 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

Instrument :
MSVOA_N
ClientSampleId :

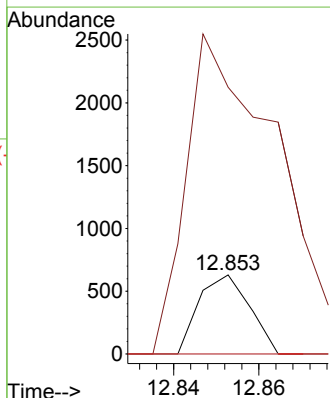
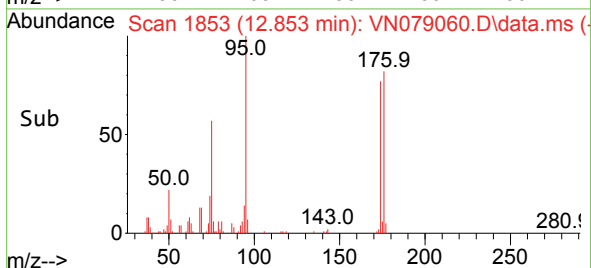
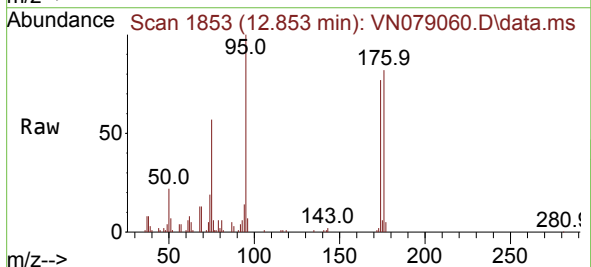


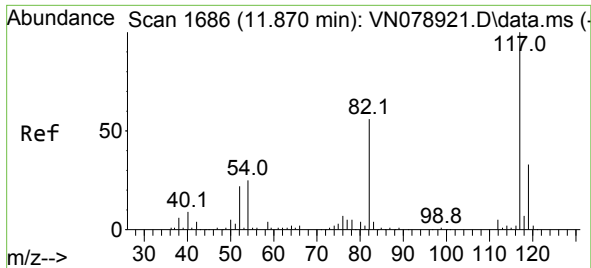
Tgt Ion:	97	Resp:	8487
Ion	Ratio	Lower	Upper
97	100		
83	4.0	63.7	95.5#
85	0.0	44.9	67.3#
99	303.2	49.0	73.4#



#56
Bromoform
Concen: 0.289 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

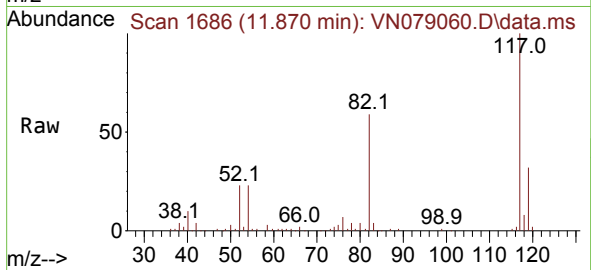
Tgt Ion:	173	Resp:	521
Ion	Ratio	Lower	Upper
173	100		
175	753.4	38.8	58.2#
254	0.0	7.6	11.4#



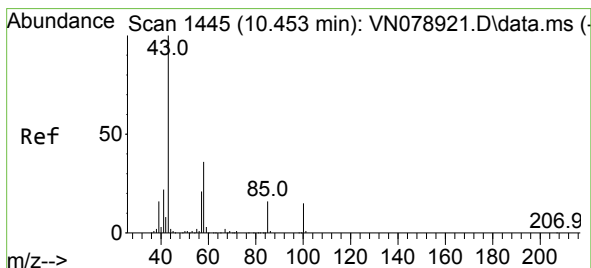
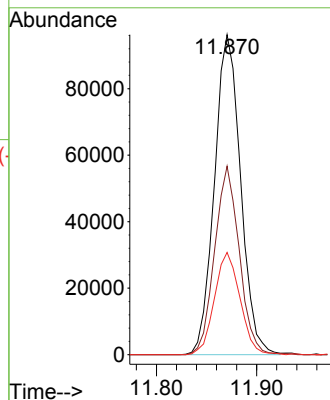
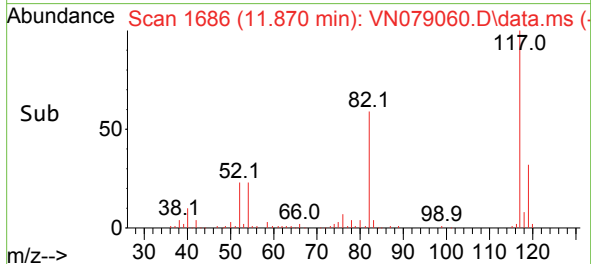


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

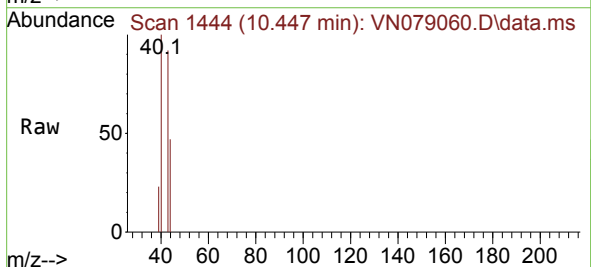
Instrument :
MSVOA_N
ClientSampleId :



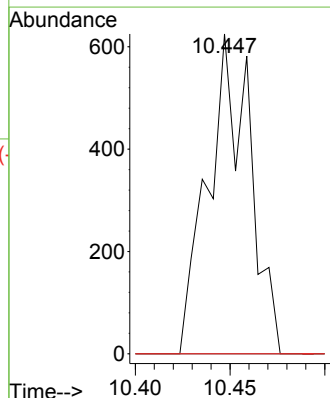
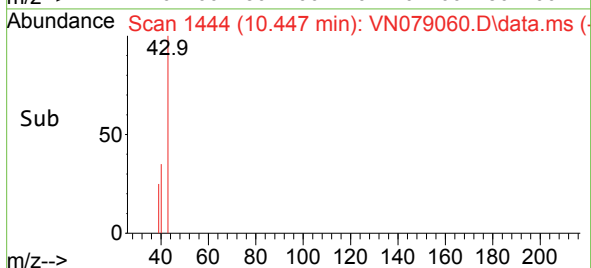
Tgt Ion:117 Resp: 174584
Ion Ratio Lower Upper
117 100
82 55.3 43.4 65.0
119 31.2 25.5 38.3

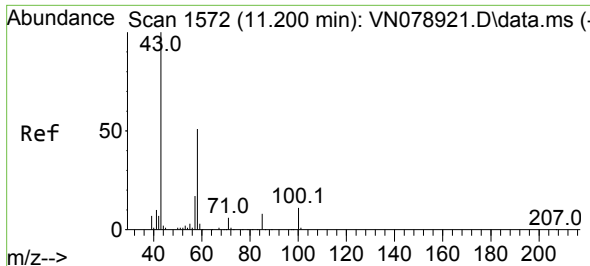


#58
4-Methyl-2-Pentanone
Concen: 0.277 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10



Tgt Ion: 43 Resp: 959
Ion Ratio Lower Upper
43 100
58 0.0 28.8 43.2#
85 0.0 12.7 19.1#

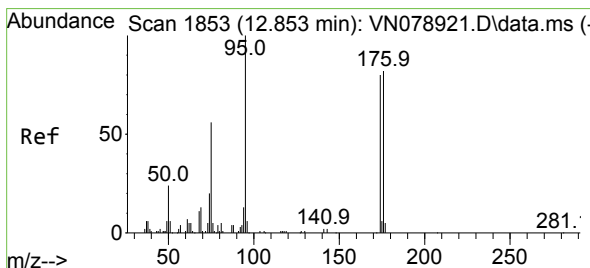
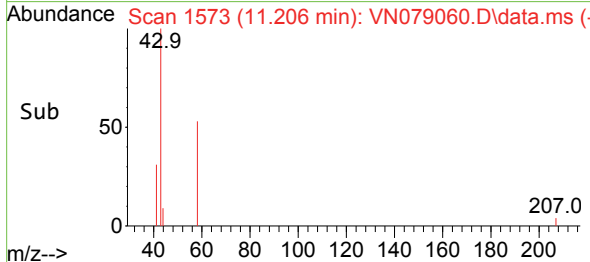
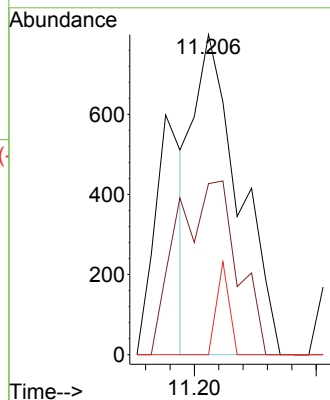
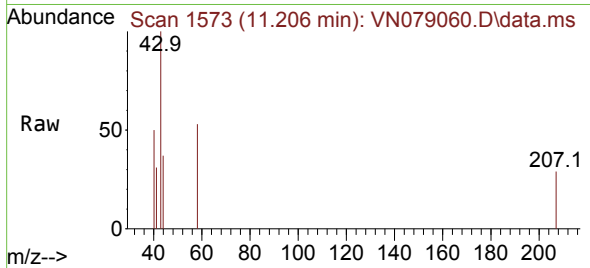




#59
2-Hexanone
Concen: 0.413 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

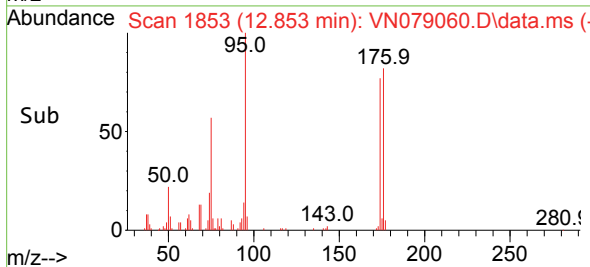
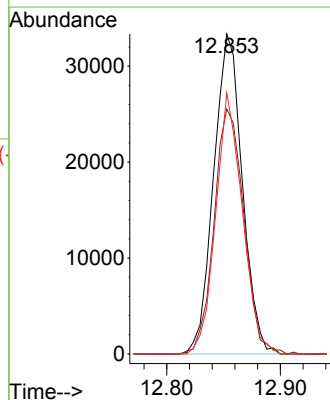
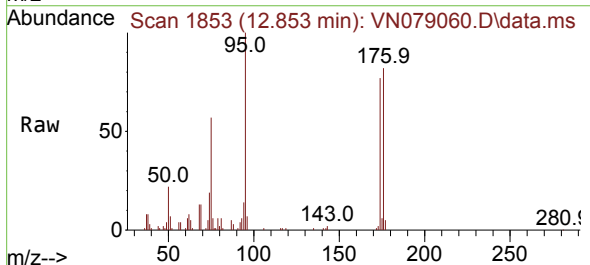
Instrument :
MSVOA_N
ClientSampleId :

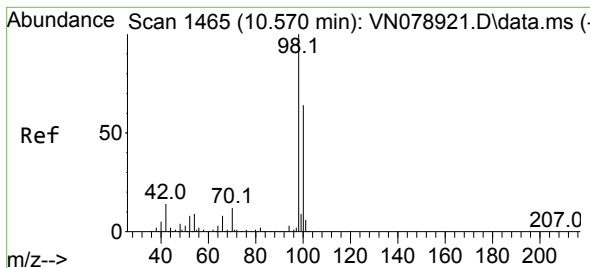
Tgt Ion: 43 Resp: 1048
Ion Ratio Lower Upper
43 100
58 71.0 40.6 60.8#
57 0.0 13.6 20.4#



#60
4-Bromofluorobenzene
Concen: 22.924 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

Tgt Ion: 95 Resp: 58379
Ion Ratio Lower Upper
95 100
174 79.6 64.8 97.2
176 76.0 63.0 94.6





#63

Toluene-d8

Concen: 30.608 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079060.D

Acq: 28 Aug 2023 12:10

Instrument :

MSVOA_N

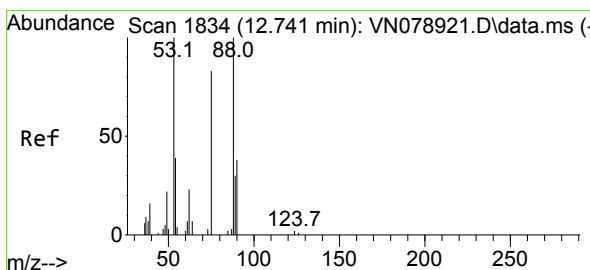
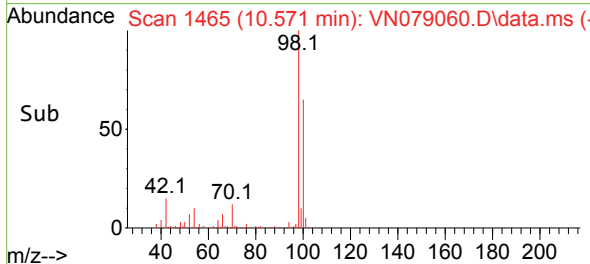
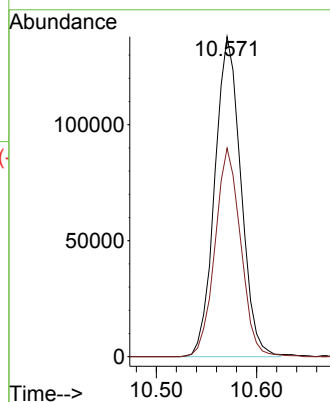
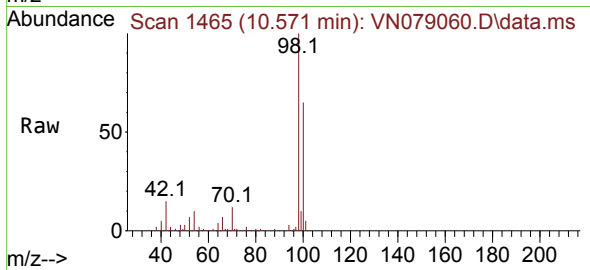
ClientSampleId :

Tgt Ion: 98 Resp: 249542

Ion Ratio Lower Upper

98 100

100 64.0 51.1 76.7



#77

t-1,4-Dichloro-2-butene

Concen: 32.673 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079060.D

Acq: 28 Aug 2023 12:10

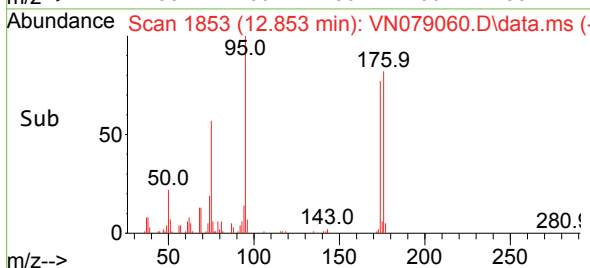
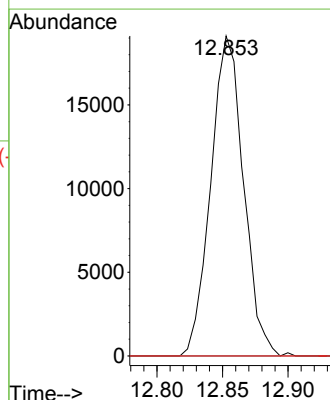
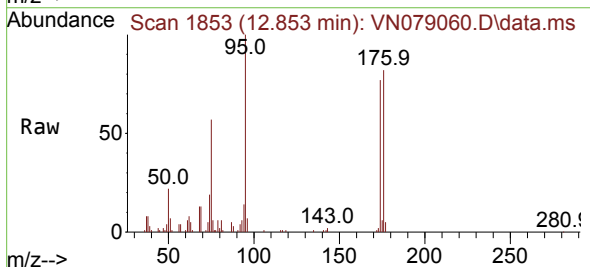
Tgt Ion: 75 Resp: 33163

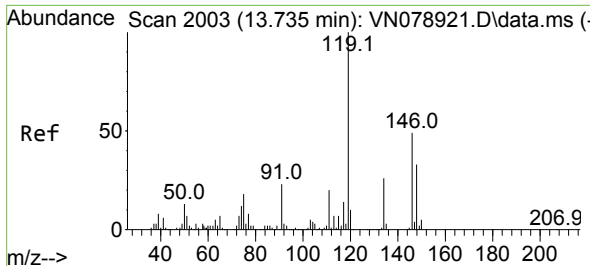
Ion Ratio Lower Upper

75 100

53 0.0 60.1 180.3#

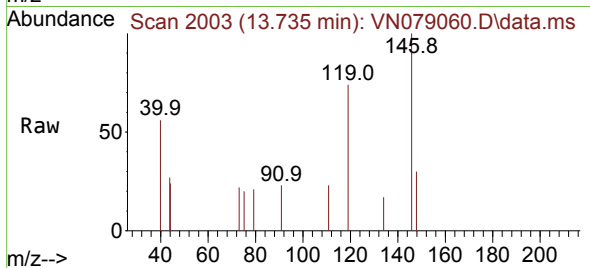
89 0.0 22.9 68.8#



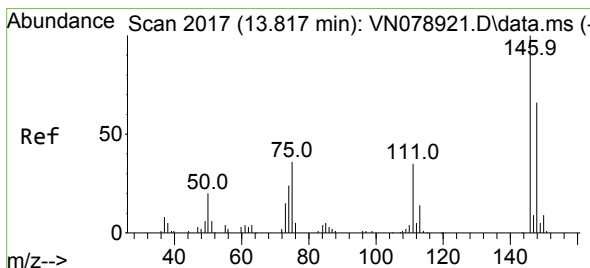
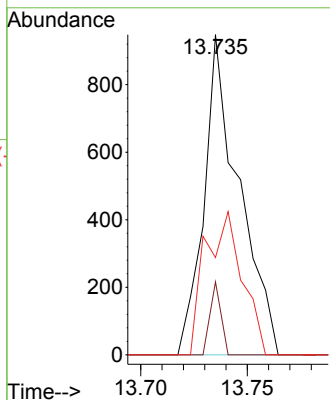
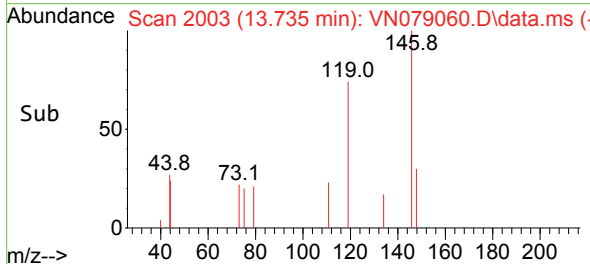


#83
1,3-Dichlorobenzene
Concen: 0.297 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

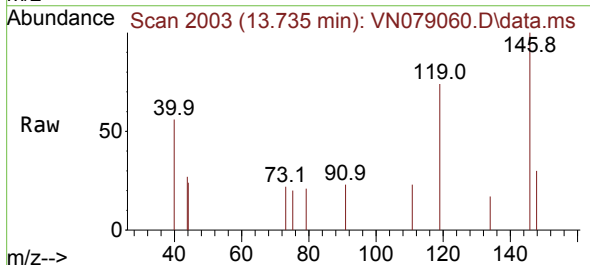
Instrument :
MSVOA_N
ClientSampleId :



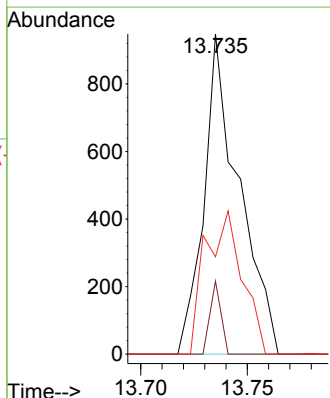
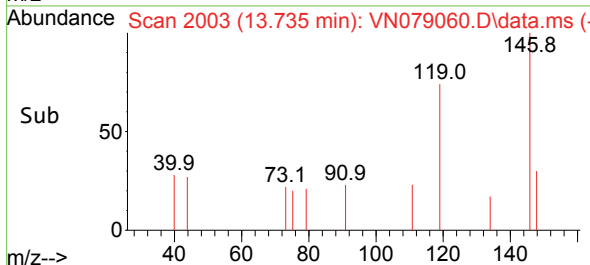
Tgt Ion:146 Resp: 1082
Ion Ratio Lower Upper
146 100
111 23.2 21.2 63.6
148 47.3 33.1 99.5

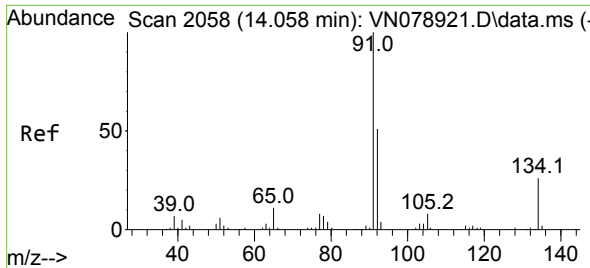


#84
1,4-Dichlorobenzene
Concen: 0.302 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.082 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10



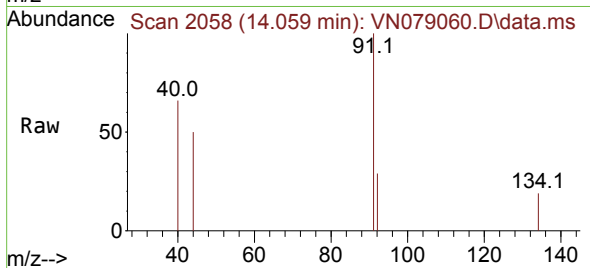
Tgt Ion:146 Resp: 1082
Ion Ratio Lower Upper
146 100
111 23.2 18.6 56.0
148 47.3 32.0 96.2



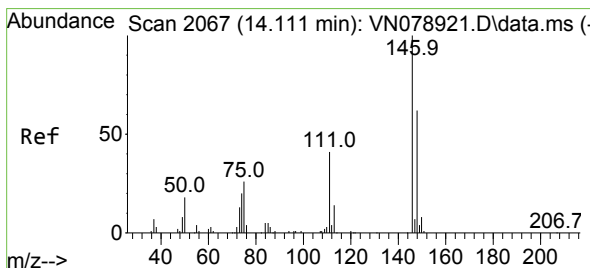
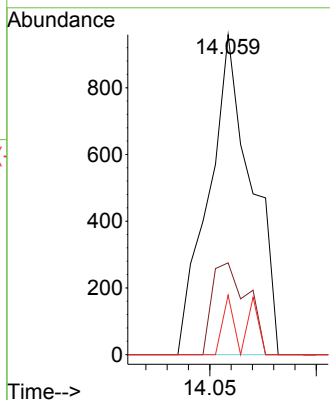
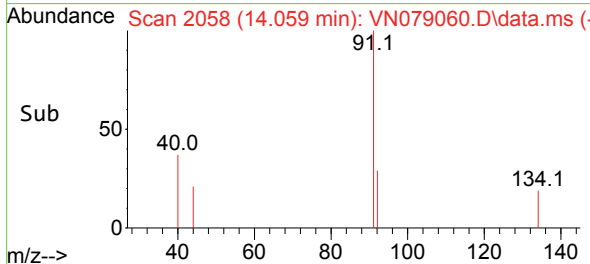


#85
n-Butylbenzene
Concen: 0.265 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10

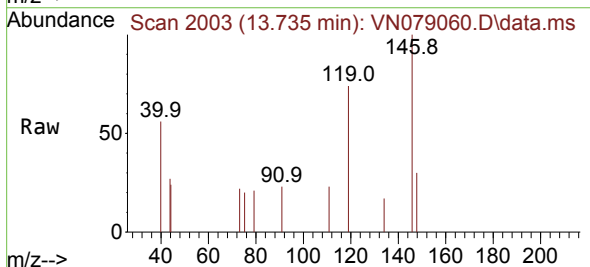
Instrument :
MSVOA_N
ClientSampleId :



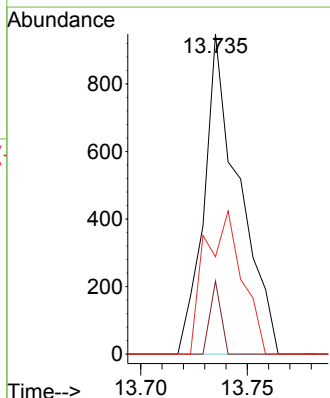
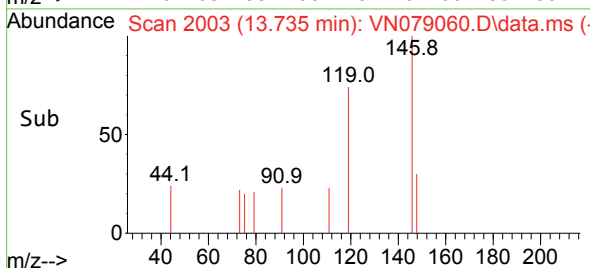
Tgt Ion: 91 Resp: 1335
Ion Ratio Lower Upper
91 100
92 23.6 0.0 102.8
134 4.7 0.0 48.6

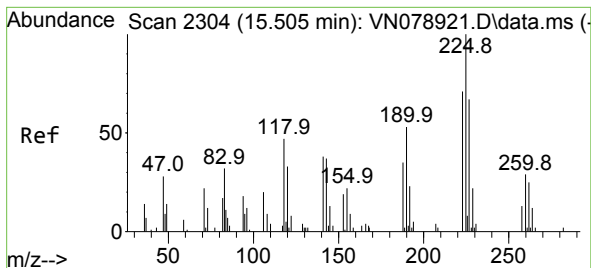


#87
1,2-Dichlorobenzene
Concen: 0.290 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.376 min
Lab File: VN079060.D
Acq: 28 Aug 2023 12:10



Tgt Ion: 146 Resp: 1082
Ion Ratio Lower Upper
146 100
111 23.2 20.3 60.8
148 47.3 32.0 96.2





#90

Hexachlorobutadiene

Concen: 0.233 ug/l

RT: 15.511 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN079060.D

Acq: 28 Aug 2023 12:10

Instrument :

MSVOA_N

ClientSampleId :

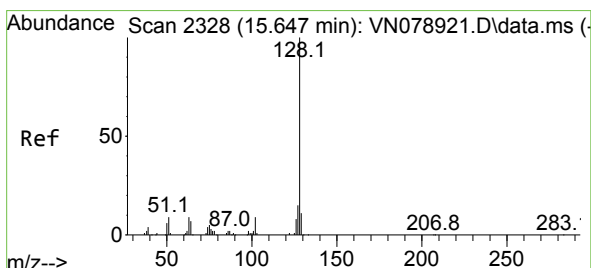
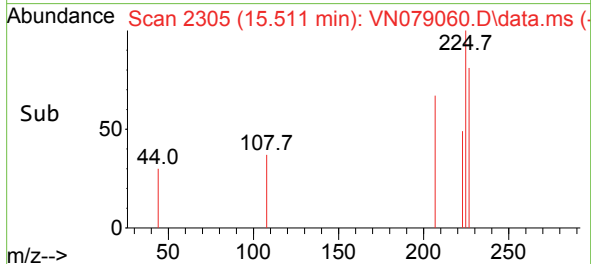
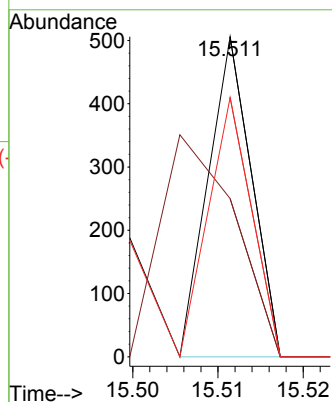
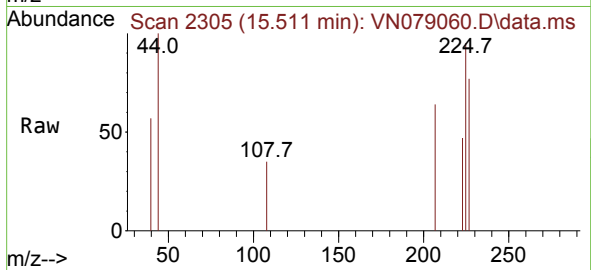
Tgt Ion:225 Resp: 179

Ion Ratio Lower Upper

225 100

223 118.4 0.0 124.0

227 81.0 0.0 117.4



#91

Naphthalene

Concen: 0.620 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.012 min

Lab File: VN079060.D

Acq: 28 Aug 2023 12:10

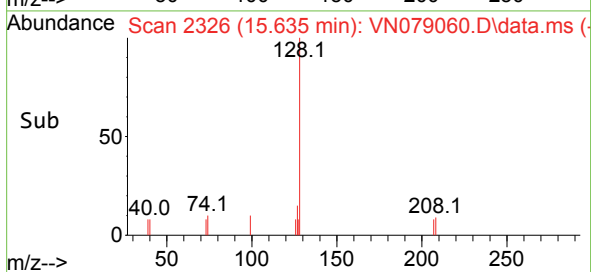
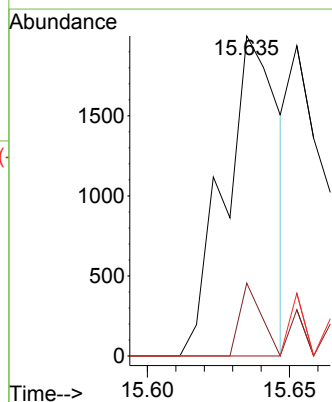
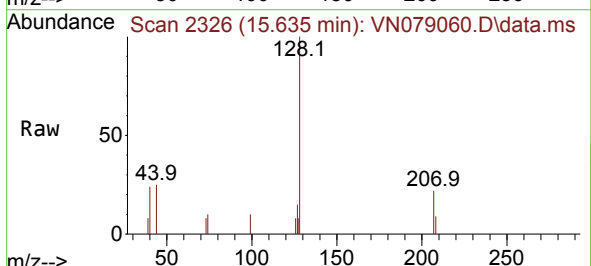
Tgt Ion:128 Resp: 2641

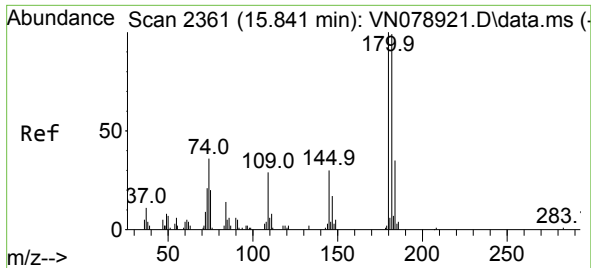
Ion Ratio Lower Upper

128 100

127 9.1 11.1 16.7#

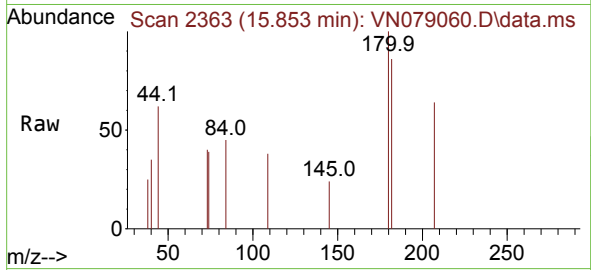
129 0.0 8.6 13.0#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.526 ug/l
 RT: 15.853 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN079060.D
 Acq: 28 Aug 2023 12:10

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	776
Ion	Ratio	Lower	Upper
180	100		
182	62.9	0.0	190.2
145	10.2	0.0	66.2

