

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN083023\
 Data File : VN079112.D
 Acq On : 30 Aug 2023 12:58
 Operator : JC\MD
 Sample : VN0830WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 31 02:15:36 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)

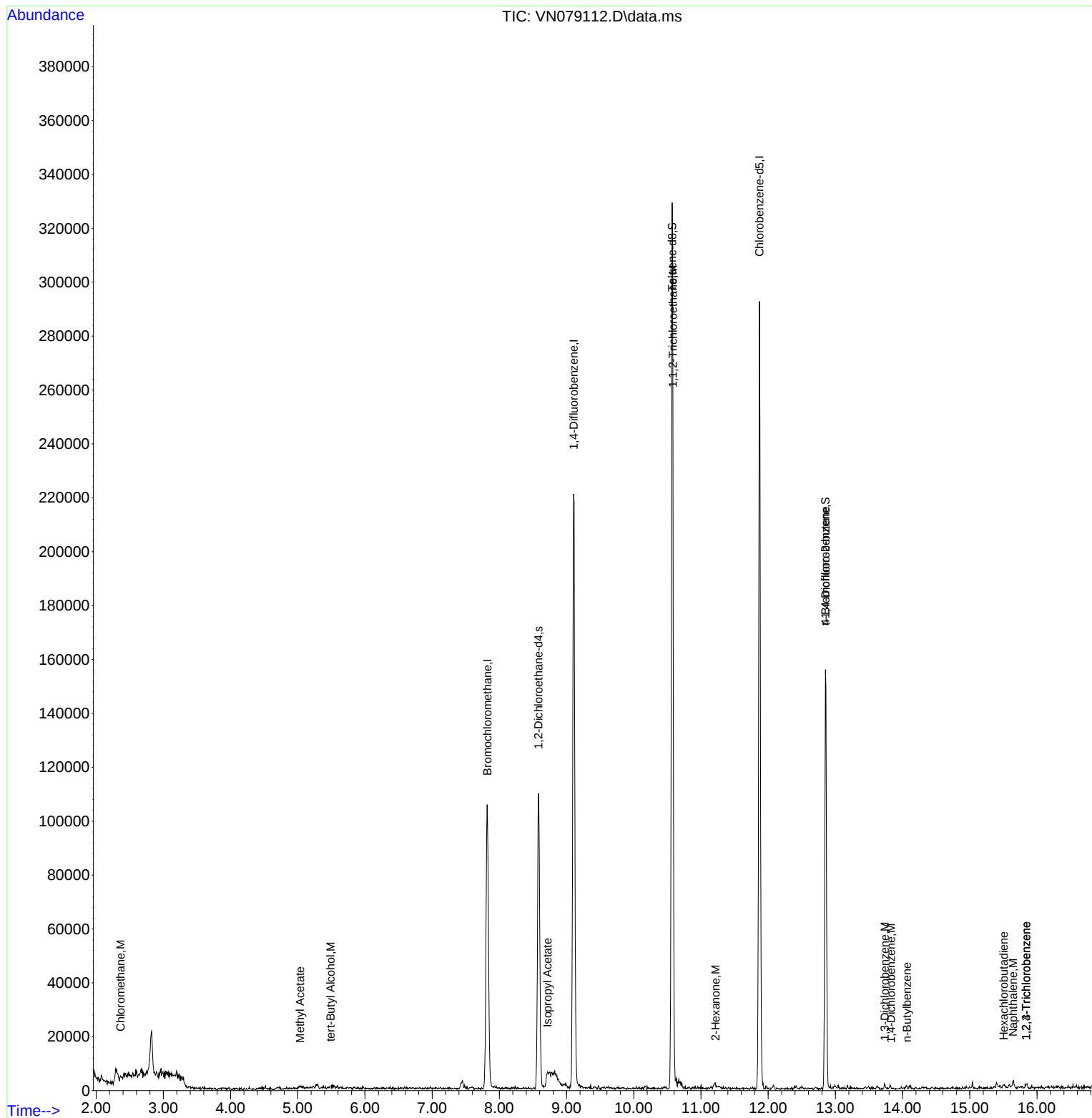
Internal Standards						
1) Bromochloromethane	7.824	128	35622	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	186407	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	153345	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	86555	29.992	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.967%
60) 4-Bromofluorobenzene	12.853	95	53184	23.776	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	79.267%
63) Toluene-d8	10.571	98	222225	31.032	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.433%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	590	0.219	ug/l #	46
12) Methyl Acetate	5.036	43	1017	0.230	ug/l #	54
23) tert-Butyl Alcohol	5.489	59	167	0.385	ug/l #	100
44) Isopropyl Acetate	8.718	43	2710	0.478	ug/l #	52
50) 1,1,2-Trichloroethane	10.582	97	7760	3.743	ug/l #	1
59) 2-Hexanone	11.218	43	987	0.443	ug/l #	89
77) t-1,4-Dichloro-2-butene	12.853	75	27772	31.152	ug/l #	3
83) 1,3-Dichlorobenzene	13.735	146	679	0.212	ug/l #	52
84) 1,4-Dichlorobenzene	13.829	146	721	0.229	ug/l #	36
85) n-Butylbenzene	14.064	91	1303	0.294	ug/l	57
89) 1,2,4-Trichlorobenzene	15.841	180	520	0.401	ug/l #	69
90) Hexachlorobutadiene	15.506	225	145	0.215	ug/l #	17
91) Naphthalene	15.647	128	2512	0.672	ug/l #	87
92) 1,2,3-Trichlorobenzene	15.841	180	520	0.401	ug/l #	69

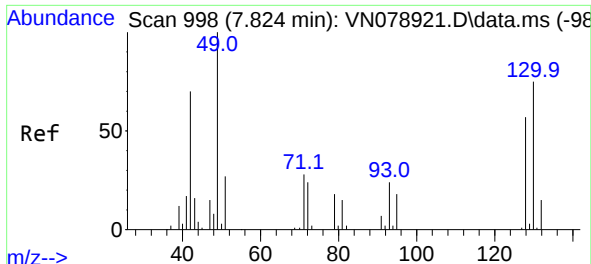
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN083023\
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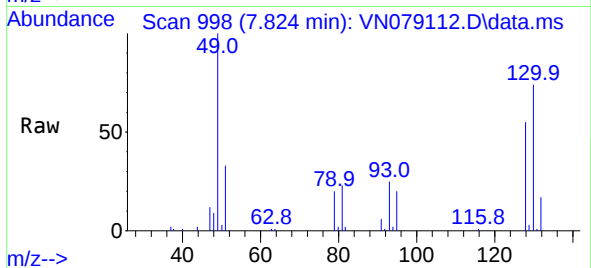
Quant Time: Aug 31 02:15:36 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 18 05:21:14 2023
Response via : Initial Calibration



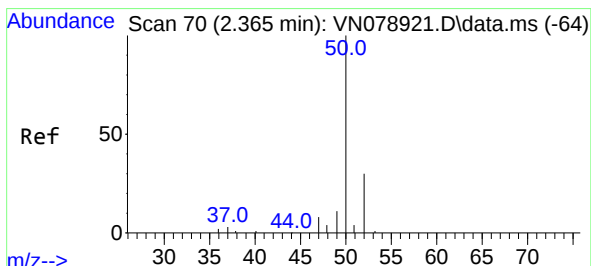
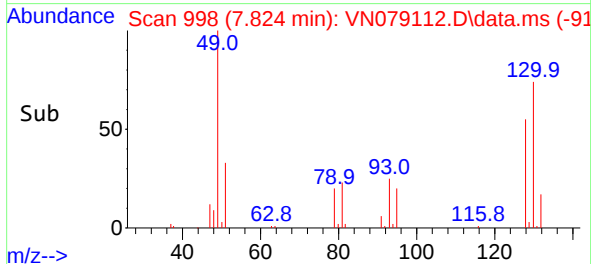
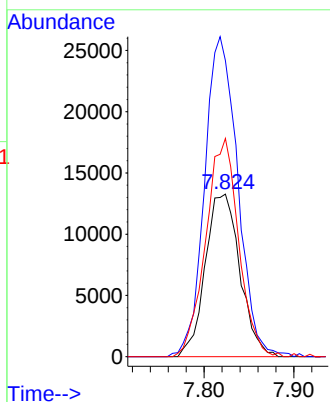


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

Instrument :
MSVOA_N
ClientSampleId :

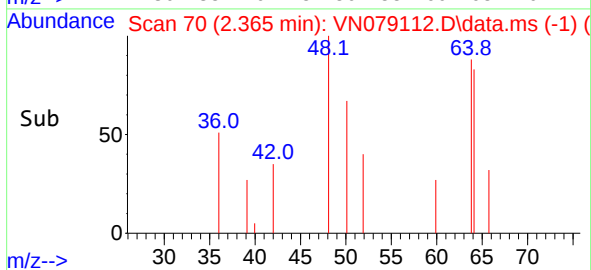
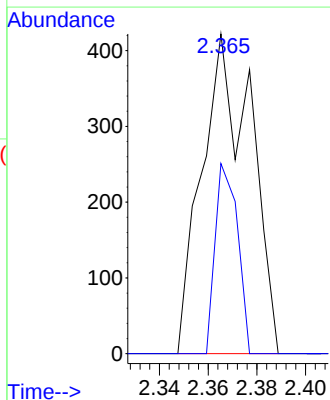
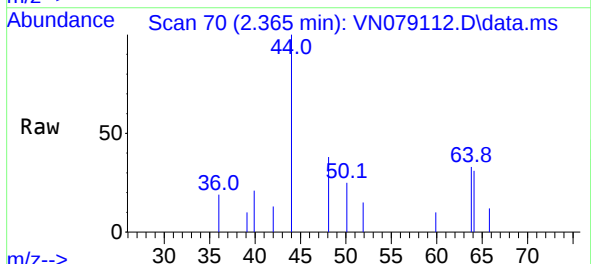


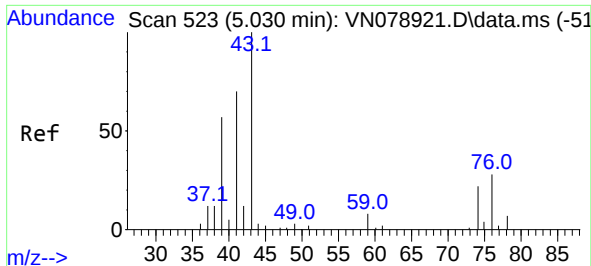
Tgt Ion:128 Resp: 35622
Ion Ratio Lower Upper
128 100
49 188.0 0.0 481.8
130 127.0 0.0 320.5



#3
Chloromethane
Concen: 0.219 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

Tgt Ion: 50 Resp: 590
Ion Ratio Lower Upper
50 100
52 59.5 24.2 36.4#

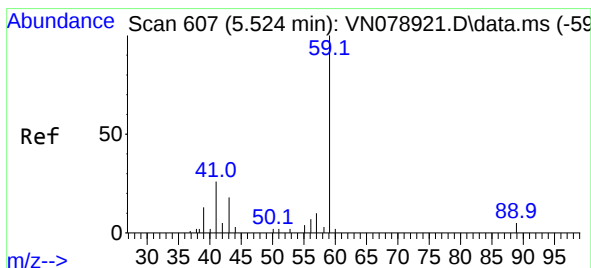
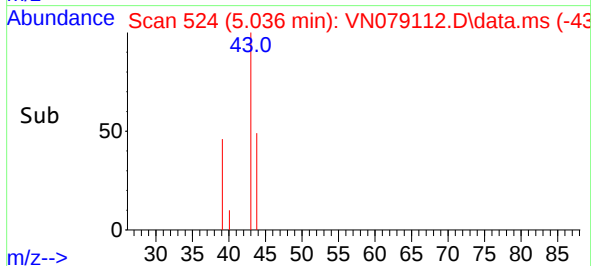
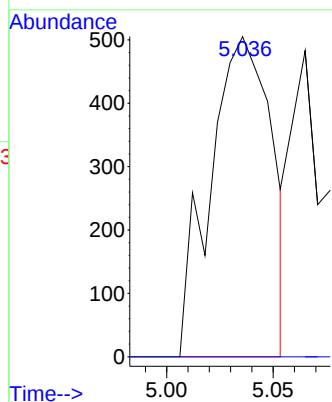
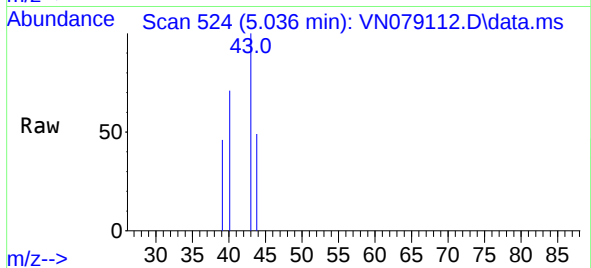




#12
Methyl Acetate
Concen: 0.230 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

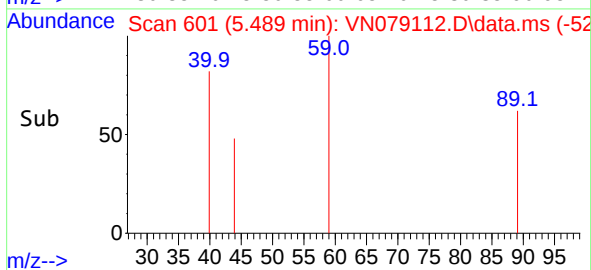
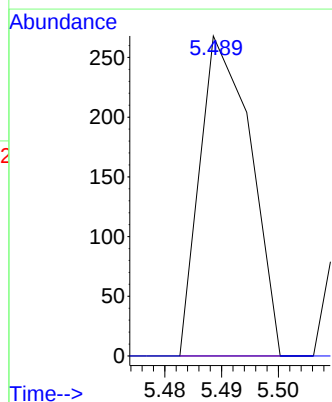
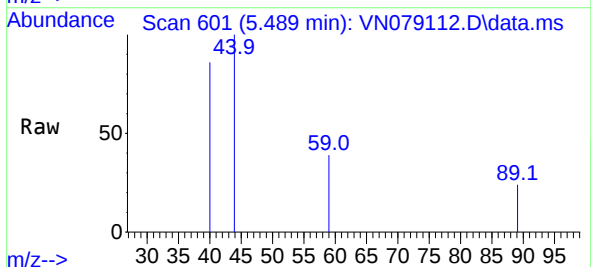
Instrument :
MSVOA_N
ClientSampleId :

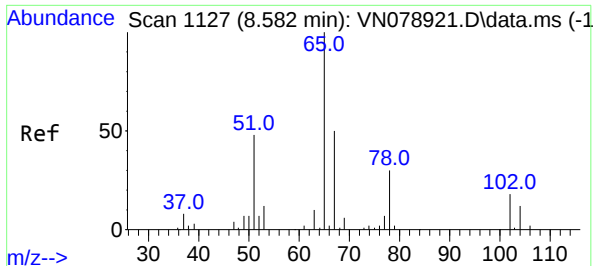
Tgt Ion: 43 Resp: 1017
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#23
tert-Butyl Alcohol
Concen: 0.385 ug/l
RT: 5.489 min Scan# 601
Delta R.T. -0.035 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

Tgt Ion: 59 Resp: 167
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

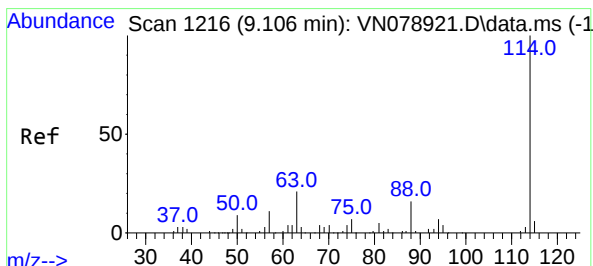
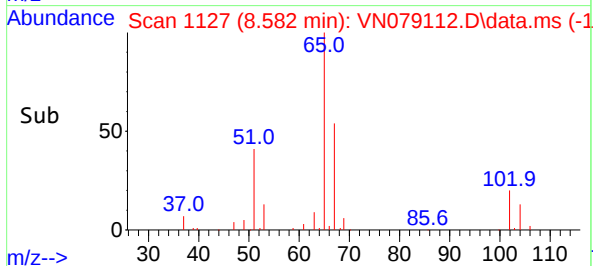
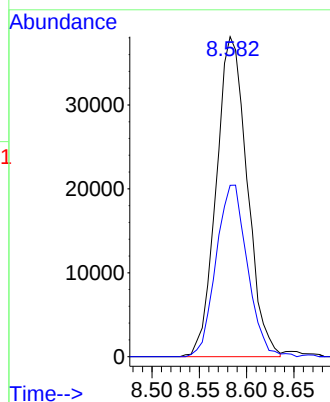
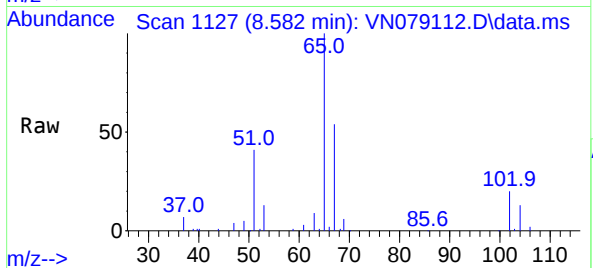




#27
1,2-Dichloroethane-d4
Concen: 29.992 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

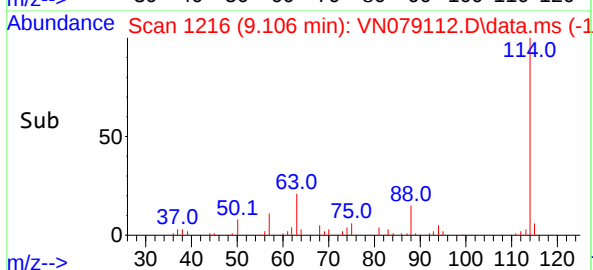
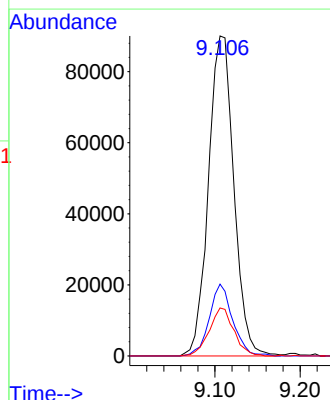
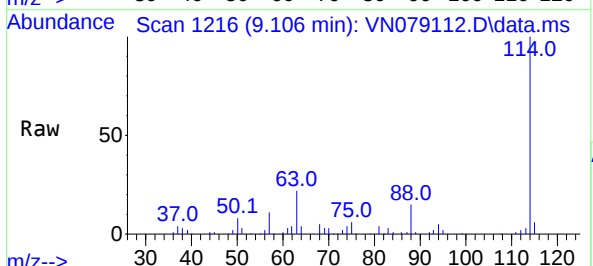
Instrument :
MSVOA_N
ClientSampleId :

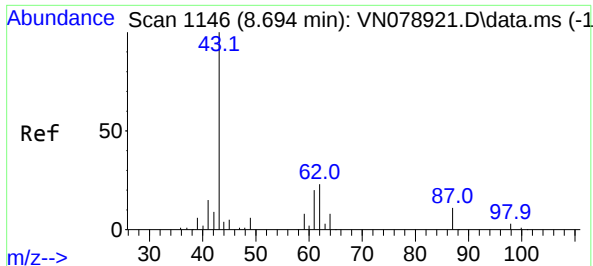
Tgt Ion: 65 Resp: 86555
Ion Ratio Lower Upper
65 100
67 54.2 40.7 61.1



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

Tgt Ion: 114 Resp: 186407
Ion Ratio Lower Upper
114 100
63 20.5 17.4 26.2
88 14.6 12.0 18.0





#44

Isopropyl Acetate

Concen: 0.478 ug/l

RT: 8.718 min Scan# 11

Delta R.T. 0.024 min

Lab File: VN079112.D

Acq: 30 Aug 2023 12:58

Instrument :

MSVOA_N

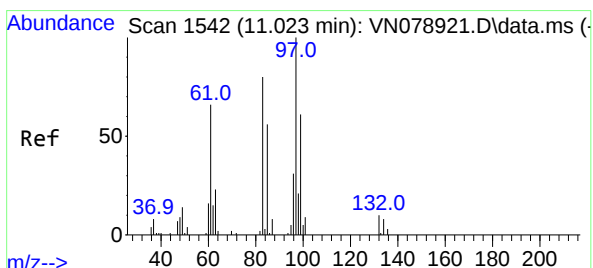
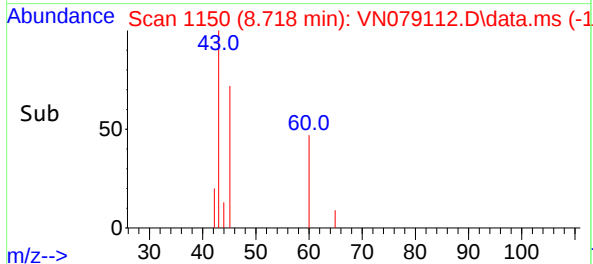
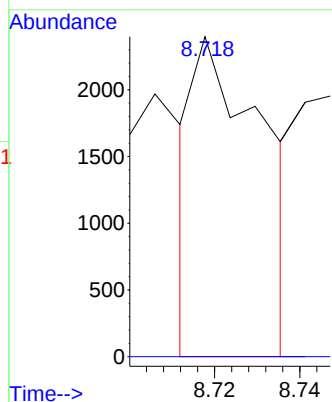
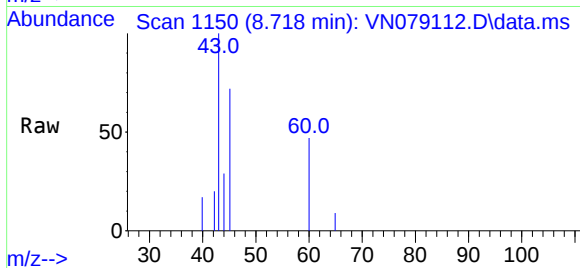
ClientSampleId :

Tgt Ion: 43 Resp: 2710

Ion Ratio Lower Upper

43 100

61 0.0 19.0 28.4#



#50

1,1,2-Trichloroethane

Concen: 3.743 ug/l

RT: 10.582 min Scan# 1467

Delta R.T. -0.441 min

Lab File: VN079112.D

Acq: 30 Aug 2023 12:58

Tgt Ion: 97 Resp: 7760

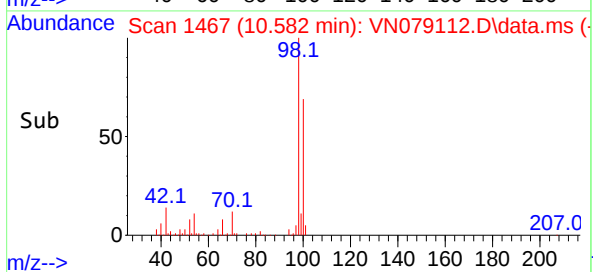
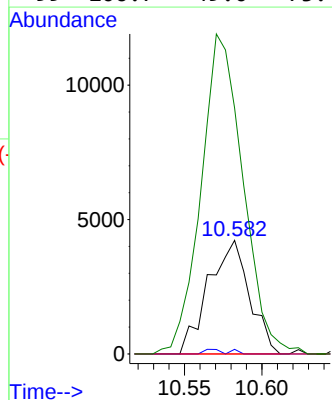
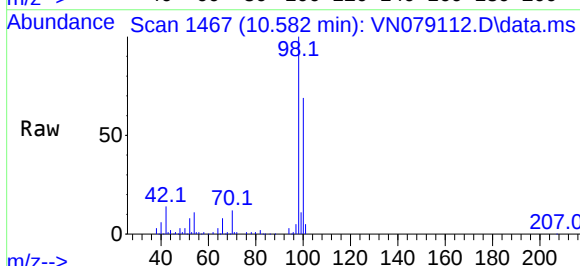
Ion Ratio Lower Upper

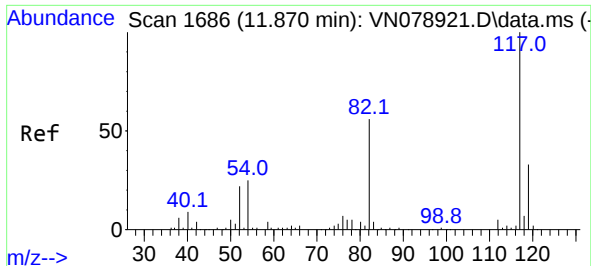
97 100

83 4.1 63.7 95.5#

85 0.0 44.9 67.3#

99 206.7 49.0 73.4#

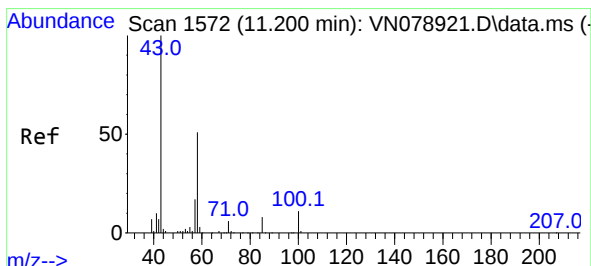
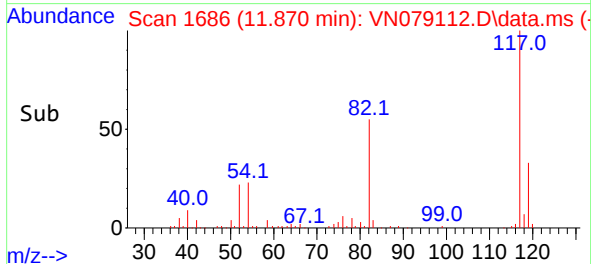
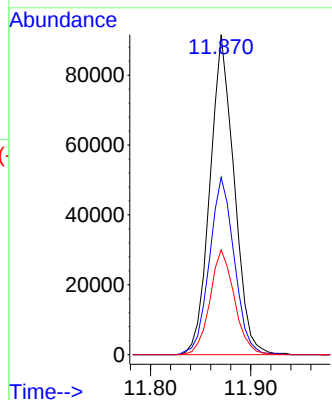
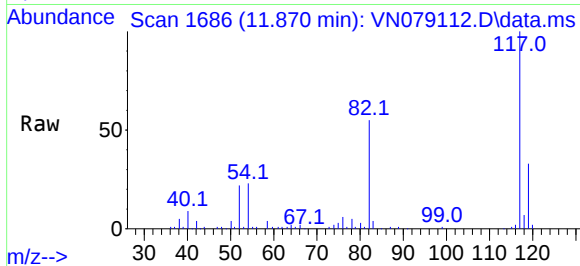




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

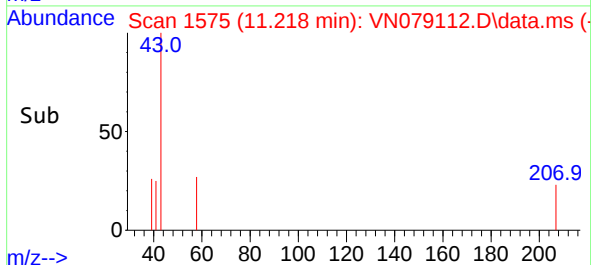
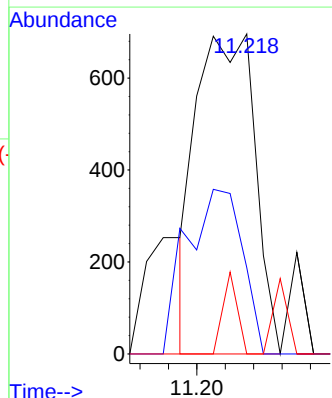
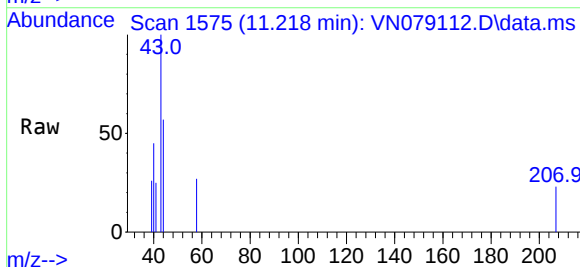
Instrument :
MSVOA_N
ClientSampleId :

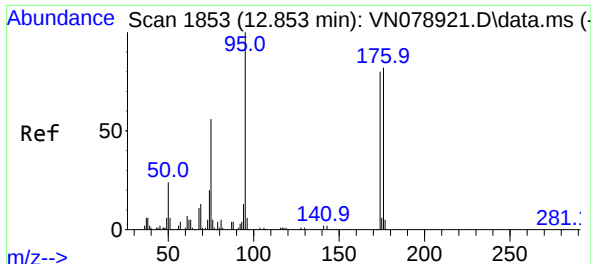
Tgt Ion:117 Resp: 153345
Ion Ratio Lower Upper
117 100
82 57.1 43.4 65.0
119 33.2 25.5 38.3



#59
2-Hexanone
Concen: 0.443 ug/l
RT: 11.218 min Scan# 1575
Delta R.T. 0.018 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

Tgt Ion: 43 Resp: 987
Ion Ratio Lower Upper
43 100
58 49.8 40.6 60.8
57 0.0 13.6 20.4#

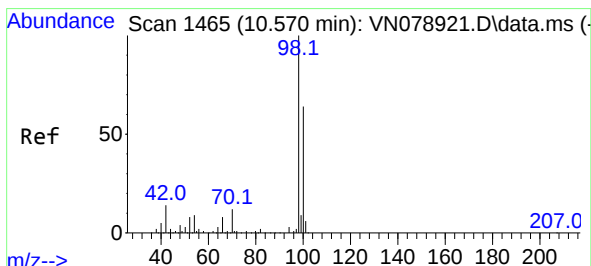
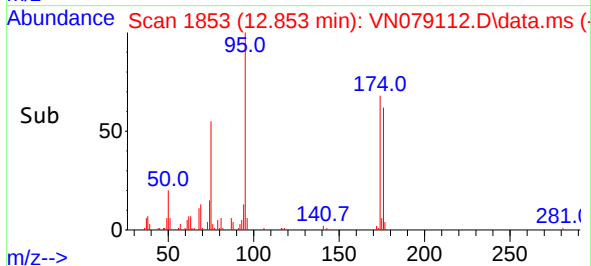
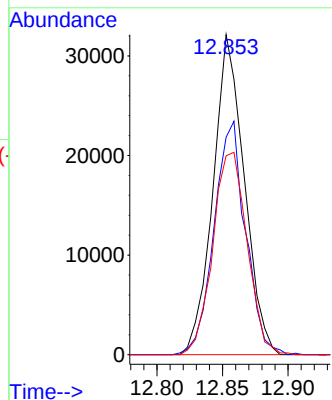
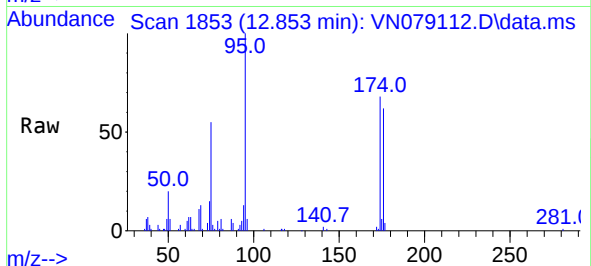




#60
4-Bromofluorobenzene
Concen: 23.776 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

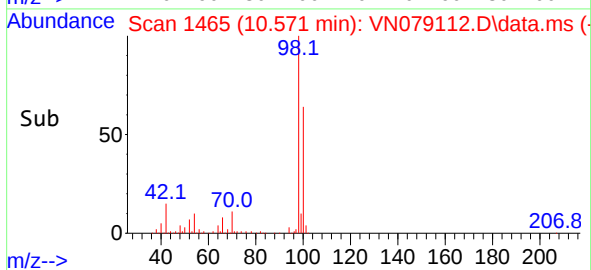
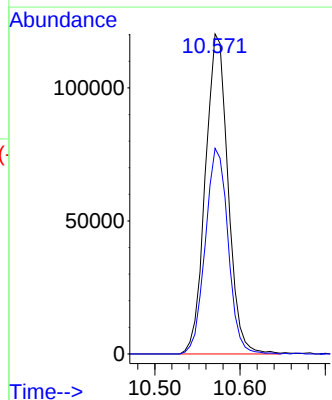
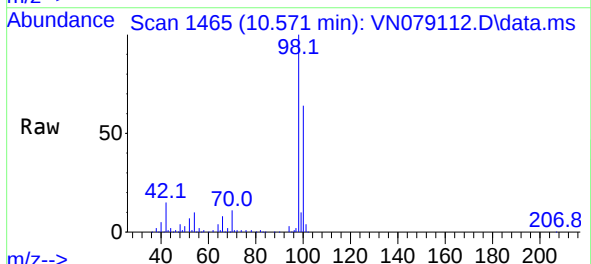
Instrument :
MSVOA_N
ClientSampleId :

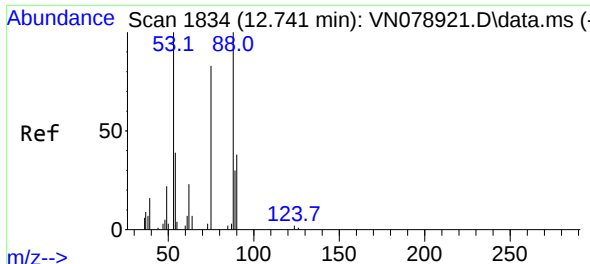
Tgt Ion: 95 Resp: 53184
Ion Ratio Lower Upper
95 100
174 73.7 64.8 97.2
176 69.5 63.0 94.6



#63
Toluene-d8
Concen: 31.032 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

Tgt Ion: 98 Resp: 222225
Ion Ratio Lower Upper
98 100
100 64.4 51.1 76.7

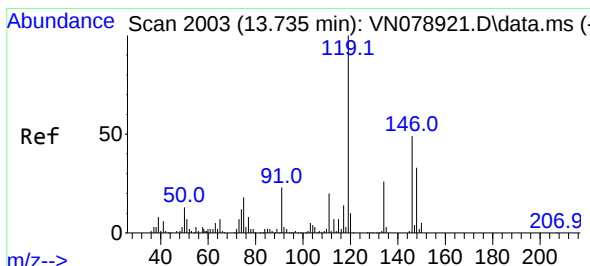
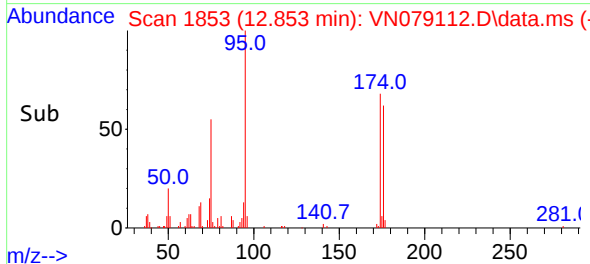
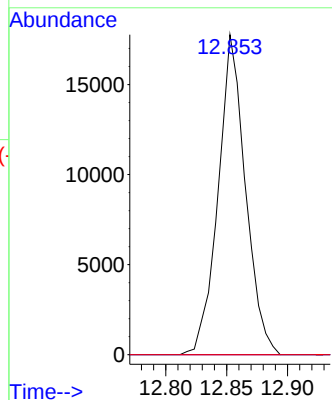
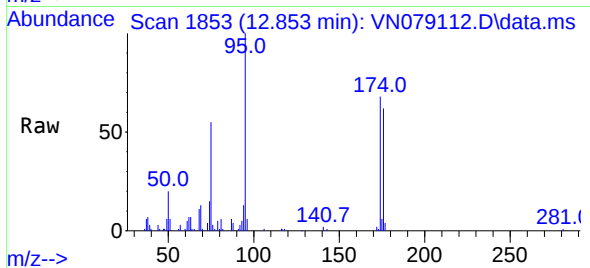




#77
t-1,4-Dichloro-2-butene
Concen: 31.152 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

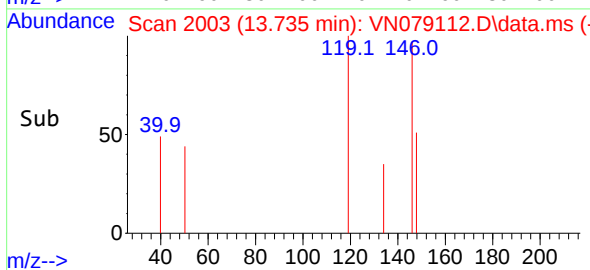
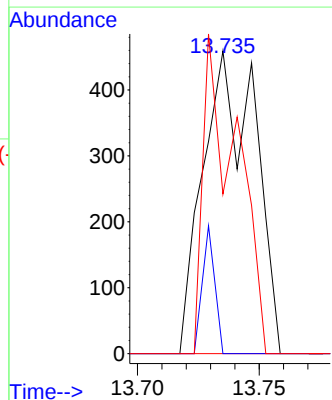
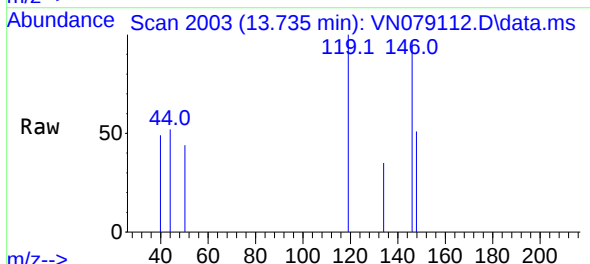
Instrument :
MSVOA_N
ClientSampleId :

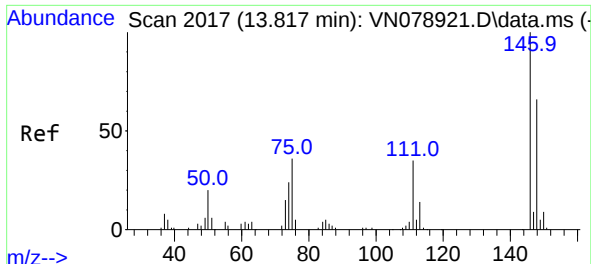
Tgt Ion: 75 Resp: 27772
Ion Ratio Lower Upper
75 100
53 0.0 60.1 180.3#
89 0.0 22.9 68.8#



#83
1,3-Dichlorobenzene
Concen: 0.212 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

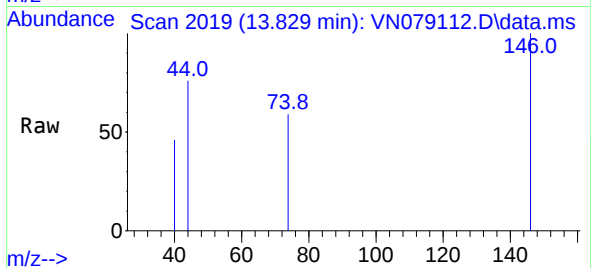
Tgt Ion:146 Resp: 679
Ion Ratio Lower Upper
146 100
111 0.0 21.2 63.6#
148 37.8 33.1 99.5



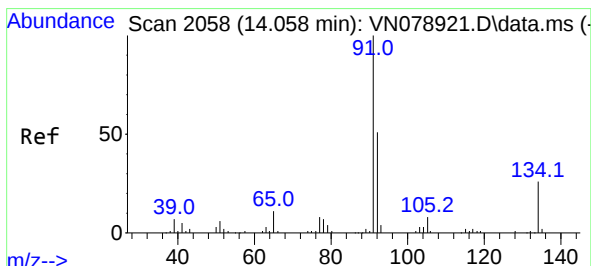
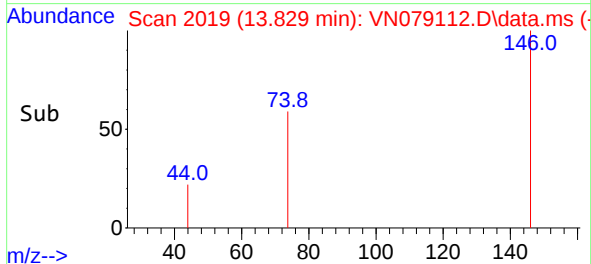
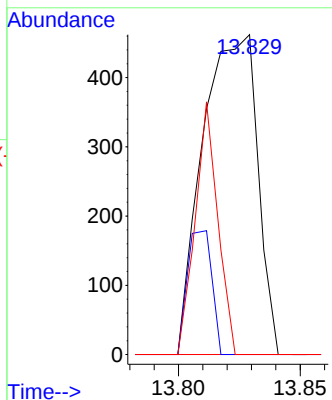


#84
1,4-Dichlorobenzene
Concen: 0.229 ug/l
RT: 13.829 min Scan# 2017
Delta R.T. 0.012 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

Instrument :
MSVOA_N
ClientSampleId :

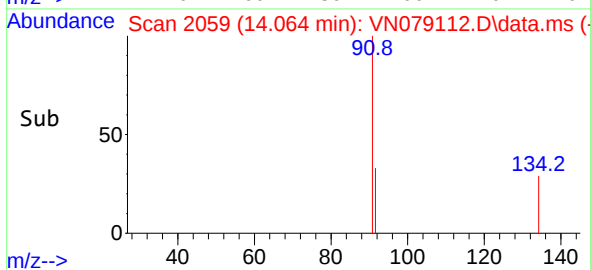
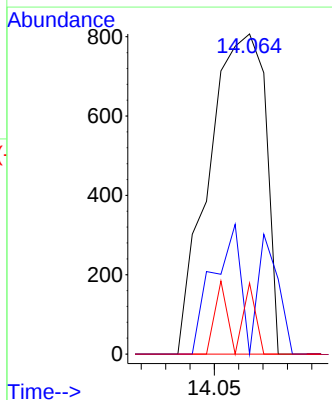
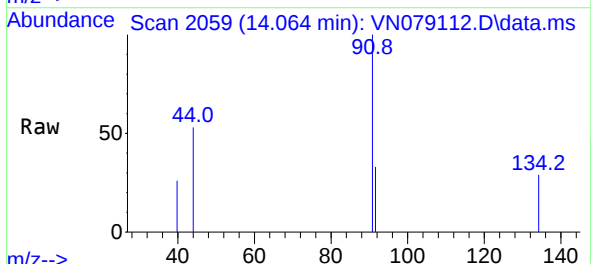


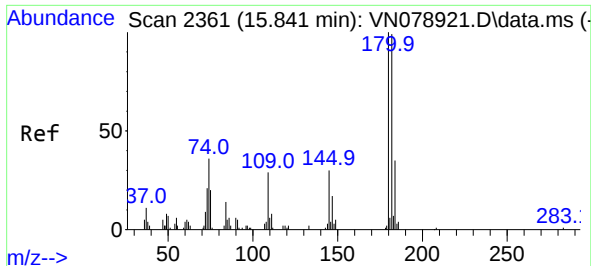
Tgt Ion:146 Resp: 721
Ion Ratio Lower Upper
146 100
111 17.3 18.6 56.0#
148 0.0 32.0 96.2#



#85
n-Butylbenzene
Concen: 0.294 ug/l
RT: 14.064 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

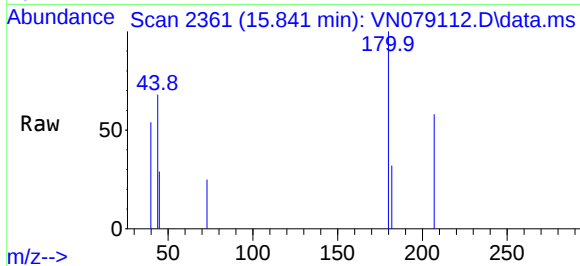
Tgt Ion: 91 Resp: 1303
Ion Ratio Lower Upper
91 100
92 20.0 0.0 102.8
134 5.0 0.0 48.6



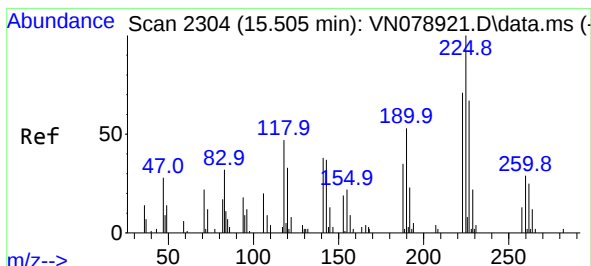
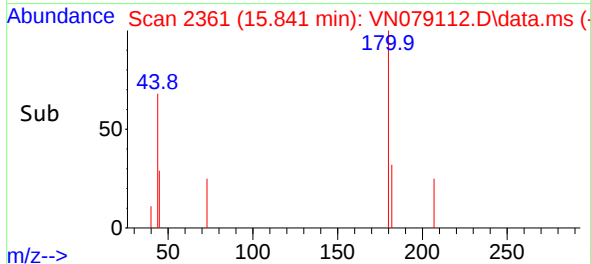
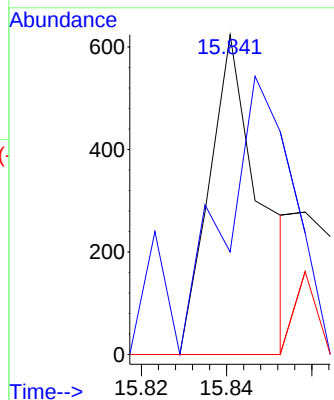


#89
1,2,4-Trichlorobenzene
Concen: 0.401 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

Instrument :
MSVOA_N
ClientSampleId :

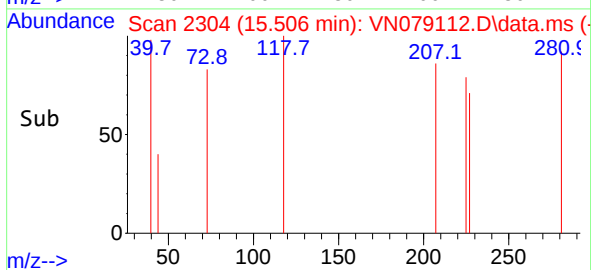
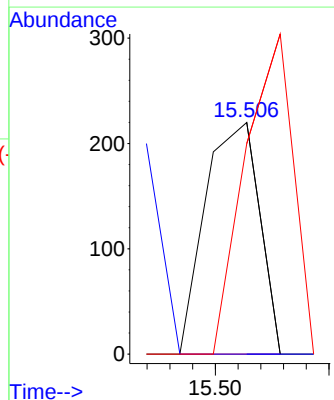
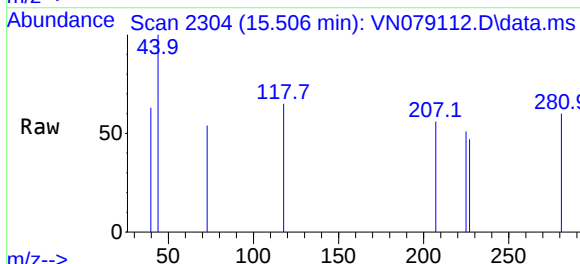


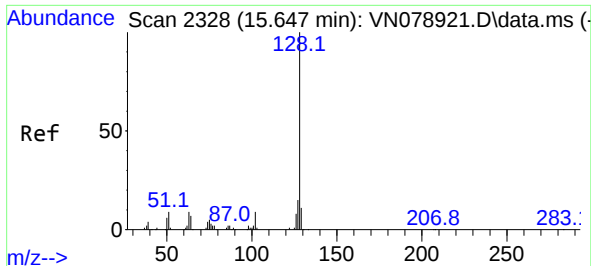
Tgt Ion:180 Resp: 520
Ion Ratio Lower Upper
180 100
182 115.8 76.1 114.1#
145 0.0 26.5 39.7#



#90
Hexachlorobutadiene
Concen: 0.215 ug/l
RT: 15.506 min Scan# 2304
Delta R.T. 0.000 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

Tgt Ion:225 Resp: 145
Ion Ratio Lower Upper
225 100
223 0.0 0.0 124.0
227 122.8 0.0 117.4#

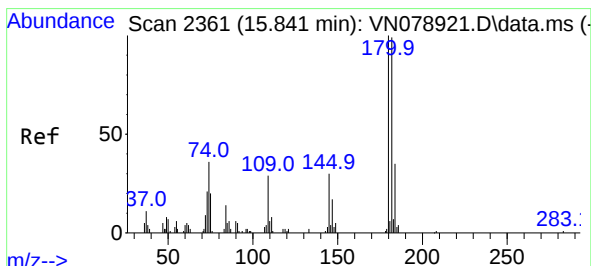
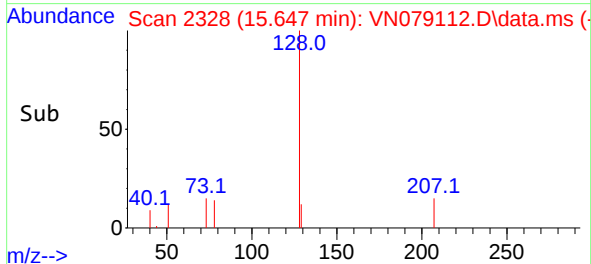
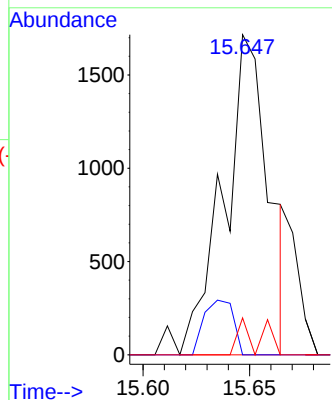
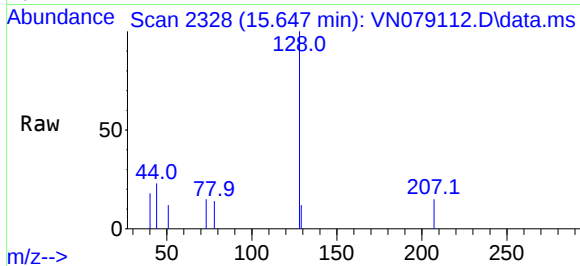




#91
Naphthalene
Concen: 0.672 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.000 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 2512
Ion Ratio Lower Upper
128 100
127 11.2 11.1 16.7
129 2.8 8.6 13.0#



#92
1,2,3-Trichlorobenzene
Concen: 0.401 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN079112.D
Acq: 30 Aug 2023 12:58

Tgt Ion:180 Resp: 520
Ion Ratio Lower Upper
180 100
182 115.8 0.0 190.2
145 0.0 0.0 66.2

