

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101823\
 Data File : VN079604.D
 Acq On : 18 Oct 2023 16:39
 Operator : JC\MD
 Sample : 04958-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 19 06:16:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

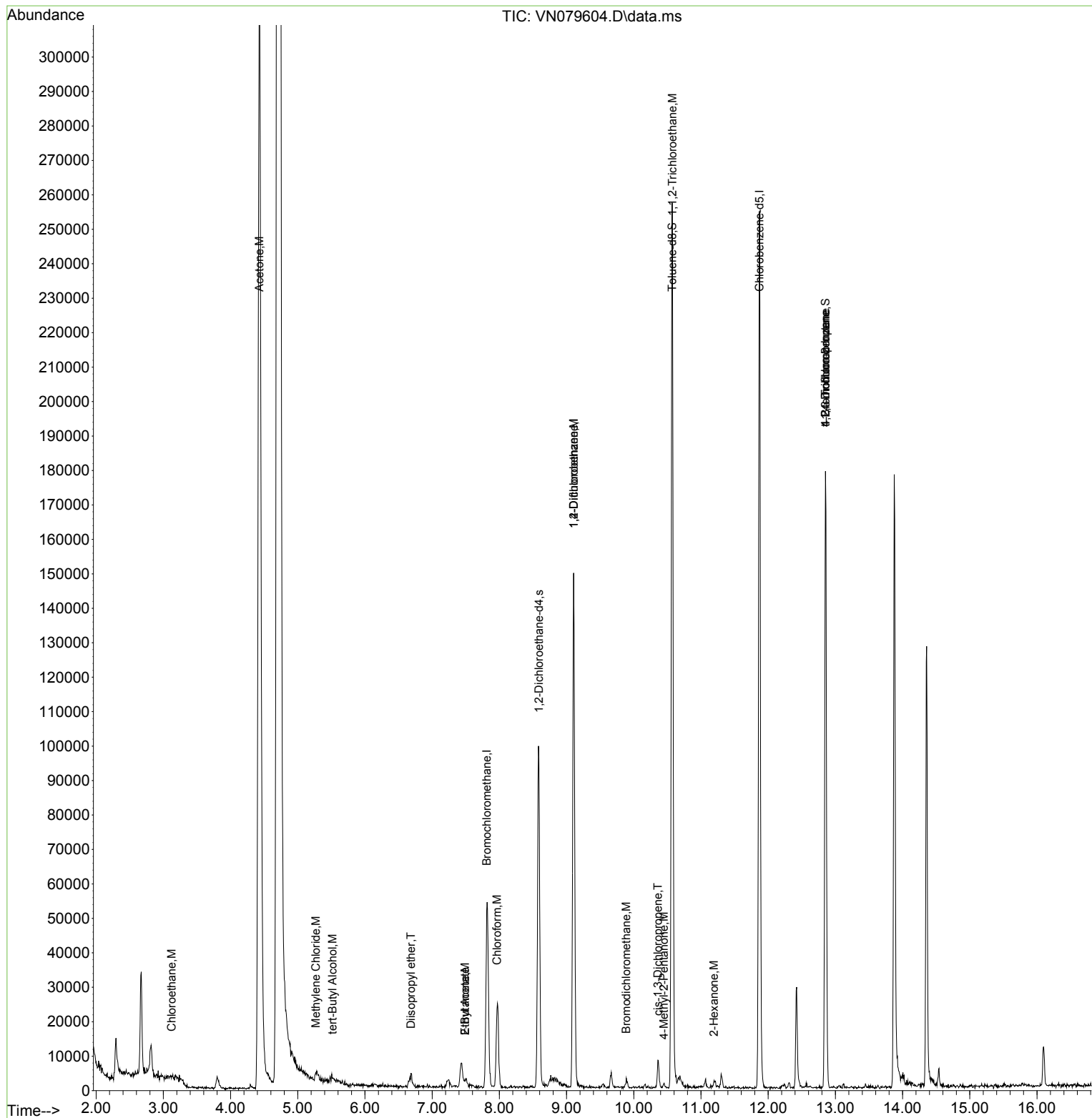
Internal Standards						
1) Bromochloromethane	7.812	128	18171	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	119318	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	144691	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	80595	31.196	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.000%
60) 4-Bromofluorobenzene	12.853	95	61666	23.305	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	77.700%
63) Toluene-d8	10.571	98	178529	28.794	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.967%
Target Compounds						
					Qvalue	
6) Chloroethane	3.124	64	927	0.357	ug/l #	46
15) Acetone	4.430	58	192325	429.526	ug/l	81
18) Methylene Chloride	5.271	84	1212	0.402	ug/l #	40
20) Diisopropyl ether	6.683	45	3159	0.353	ug/l #	63
23) tert-Butyl Alcohol	5.518	59	335	0.709	ug/l #	100
25) Chloroform	7.965	83	24260	4.414	ug/l	96
30) 2-Butanone	7.488	43	1437	0.822	ug/l #	74
36) 1,2-Dichloroethane	9.106	62	4950	1.309	ug/l #	75
41) Bromodichloromethane	9.888	83	767	0.202	ug/l #	73
43) Ethyl Acetate	7.488	43	1437	0.437	ug/l	99
49) cis-1,3-Dichloropropene	10.359	75	1075	0.256	ug/l #	53
50) 1,1,2-Trichloroethane	10.576	97	6613	2.598	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	936	0.277	ug/l #	44
59) 2-Hexanone	11.194	43	808	0.326	ug/l #	60
72) 1,2,3-Trichloropropane	12.853	75	32907	9.857	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	32907	32.297	ug/l #	8

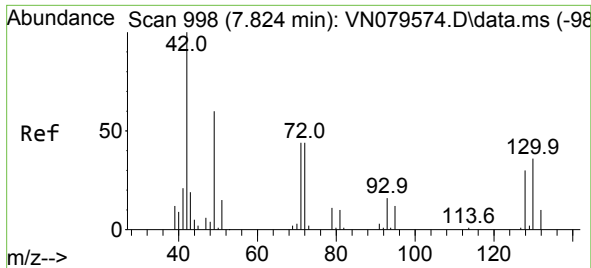
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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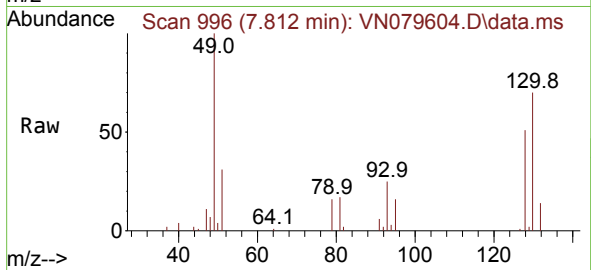
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 18 02:19:15 2023
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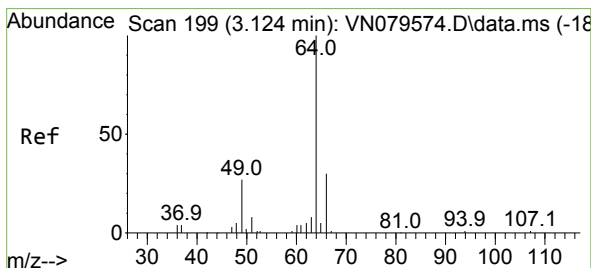
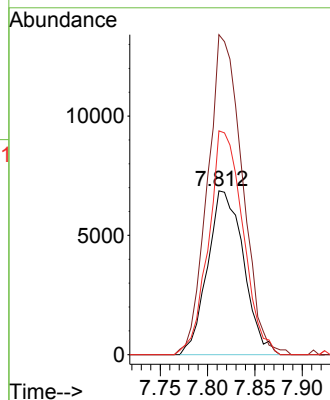
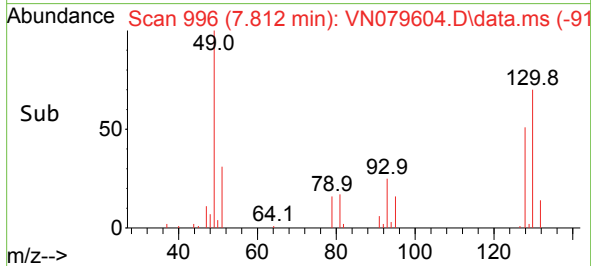


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.012 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

Instrument :
MSVOA_N
ClientSampleId :

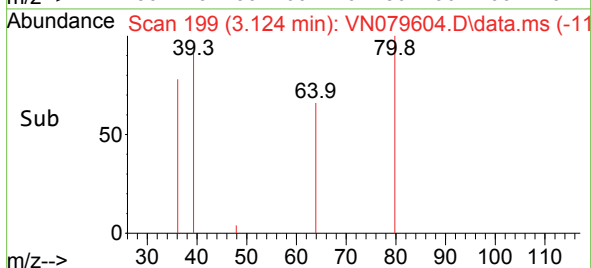
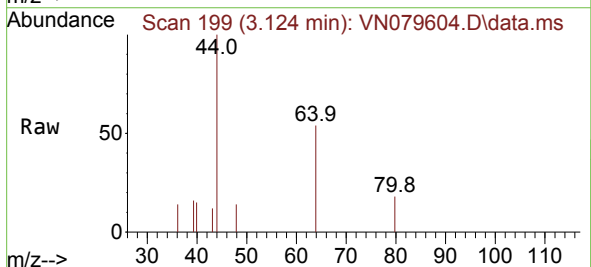


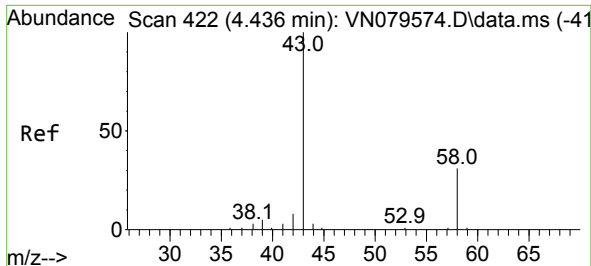
Tgt Ion:128 Resp: 18171
Ion Ratio Lower Upper
128 100
49 188.0 0.0 468.5
130 130.3 0.0 320.7



#6
Chloroethane
Concen: 0.357 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

Tgt Ion: 64 Resp: 927
Ion Ratio Lower Upper
64 100
66 0.0 23.3 34.9#

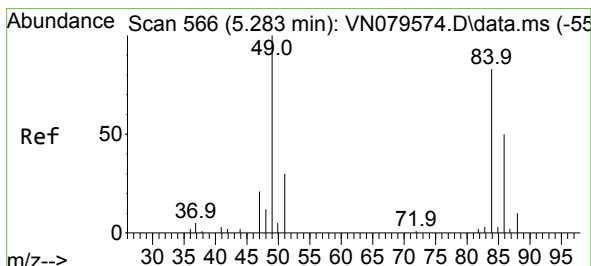
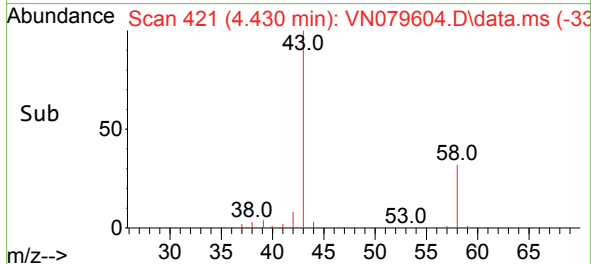
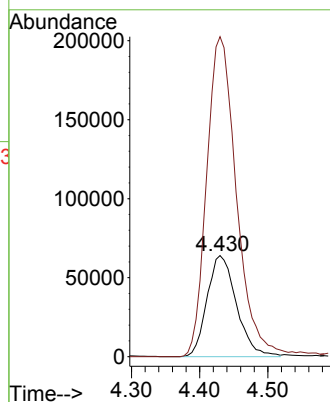
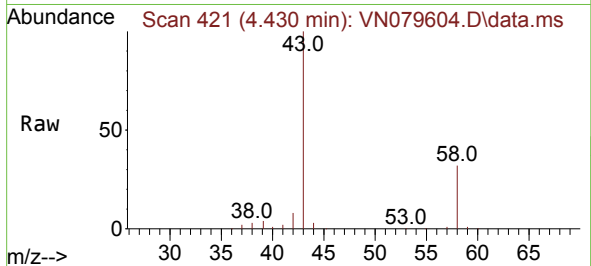




#15
Acetone
Concen: 429.526 ug/l
RT: 4.430 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

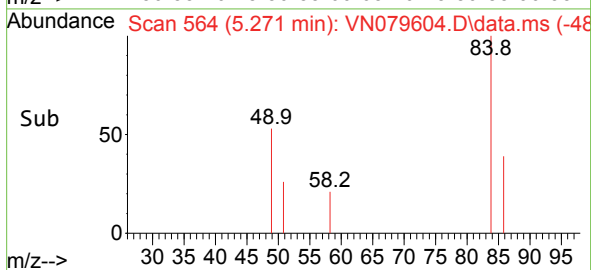
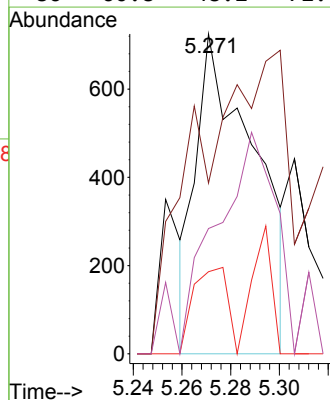
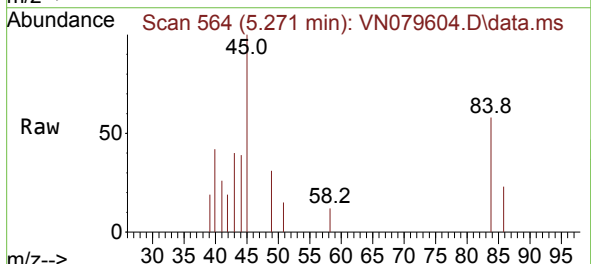
Instrument :
MSVOA_N
ClientSampleId :

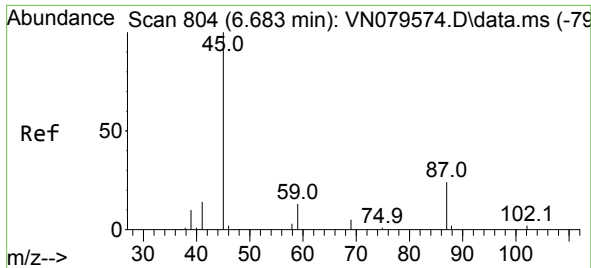
Tgt Ion: 58 Resp: 192325
Ion Ratio Lower Upper
58 100
43 316.3 225.2 337.8



#18
Methylene Chloride
Concen: 0.402 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.012 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

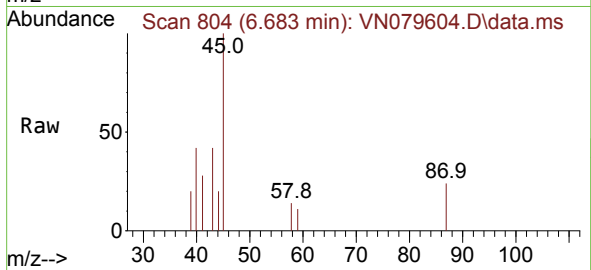
Tgt Ion: 84 Resp: 1212
Ion Ratio Lower Upper
84 100
49 7.1 100.9 151.3#
51 39.8 29.4 44.2
86 60.8 48.2 72.4



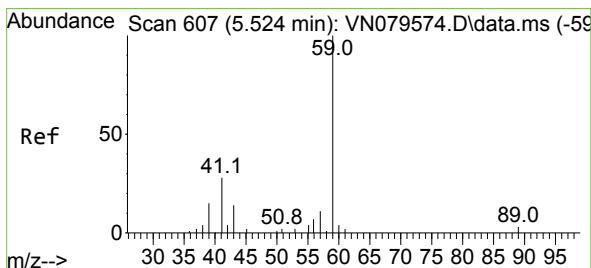
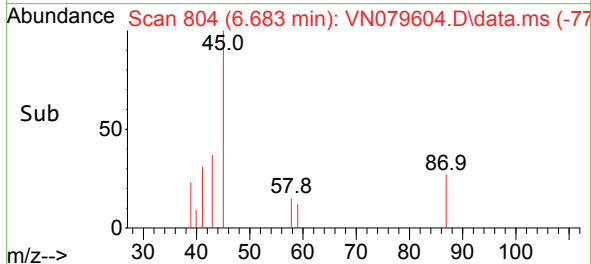
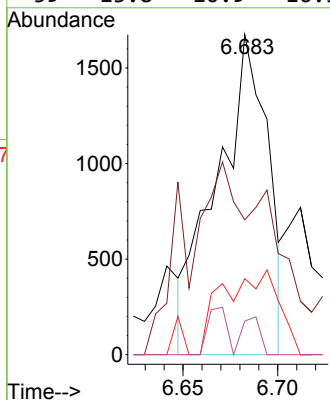


#20
Diisopropyl ether
Concen: 0.353 ug/l
RT: 6.683 min Scan# 804
Delta R.T. 0.000 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

Instrument :
MSVOA_N
ClientSampleId :

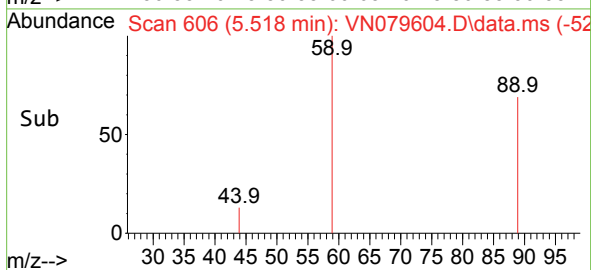
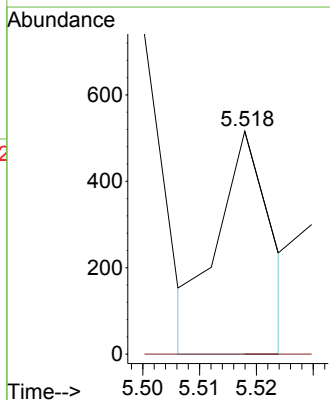
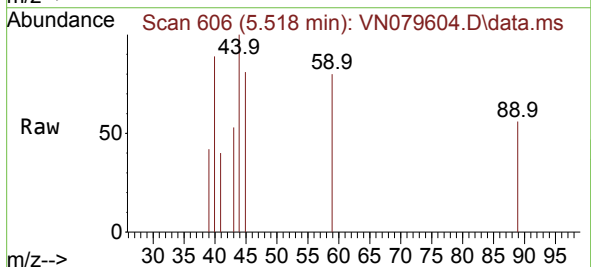


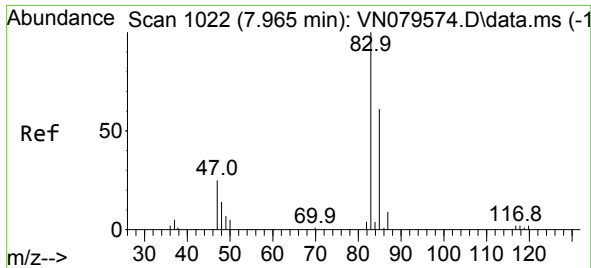
Tgt Ion:	45	Resp:	3159
Ion	Ratio	Lower	Upper
45	100		
43	13.9	42.1	63.1#
87	15.5	20.5	30.7#
59	13.8	10.9	16.3



#23
tert-Butyl Alcohol
Concen: 0.709 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

Tgt Ion:	59	Resp:	335
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

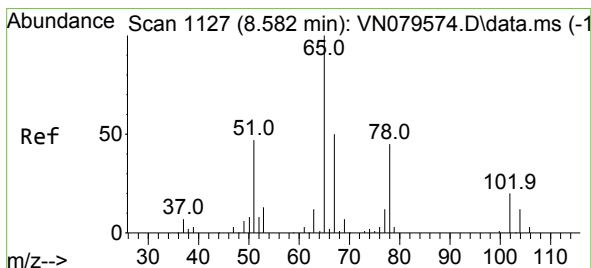
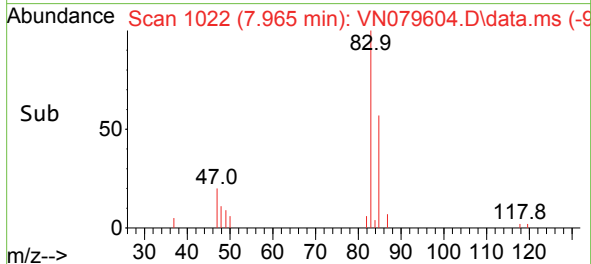
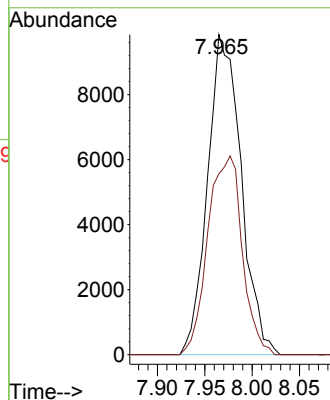
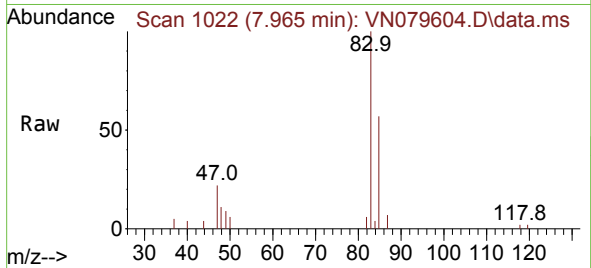




#25
Chloroform
Concen: 4.414 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

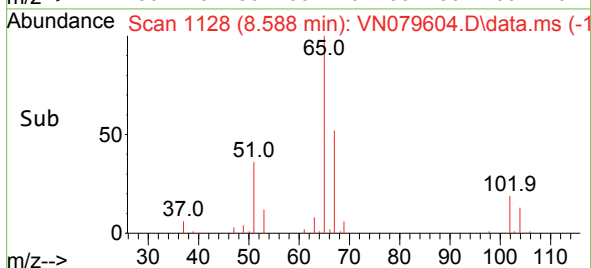
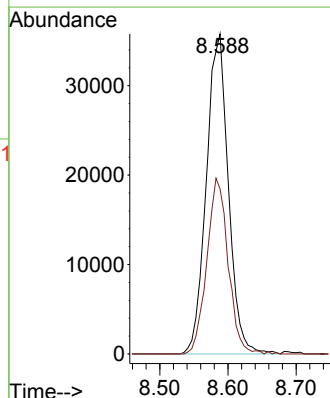
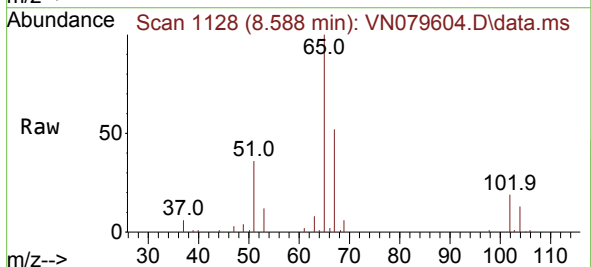
Instrument :
MSVOA_N
ClientSampleId :

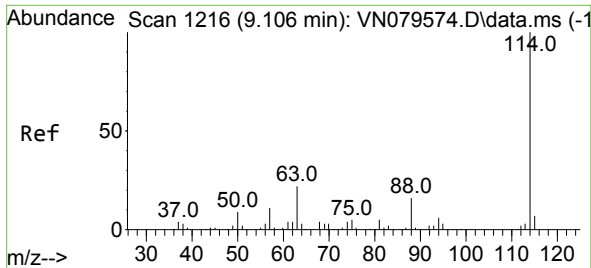
Tgt Ion: 83 Resp: 24260
Ion Ratio Lower Upper
83 100
85 56.6 47.4 71.2



#27
1,2-Dichloroethane-d4
Concen: 31.196 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

Tgt Ion: 65 Resp: 80595
Ion Ratio Lower Upper
65 100
67 52.6 42.1 63.1

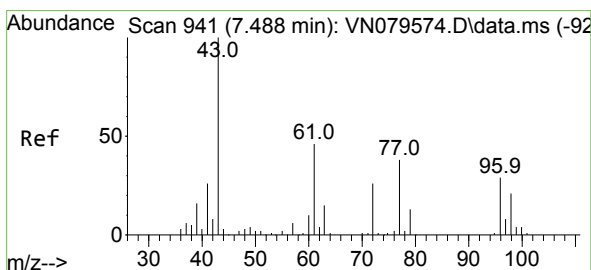
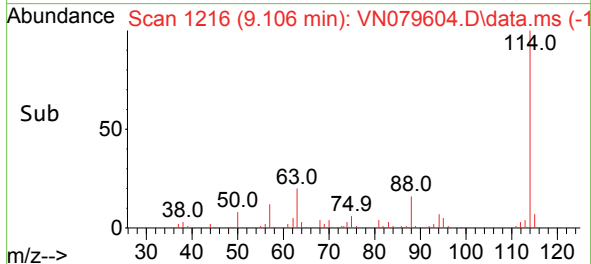
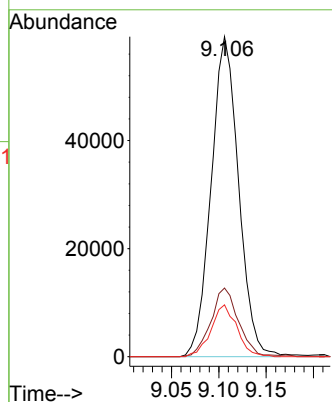
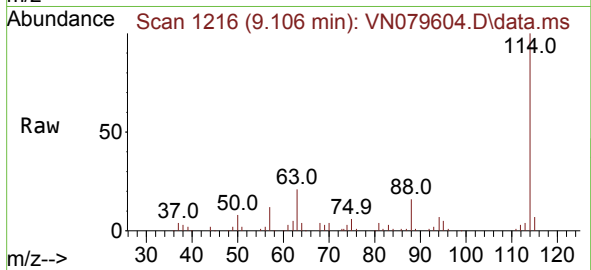




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

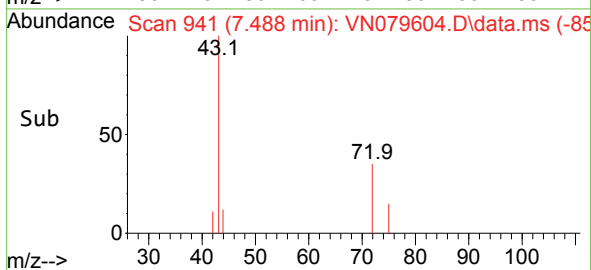
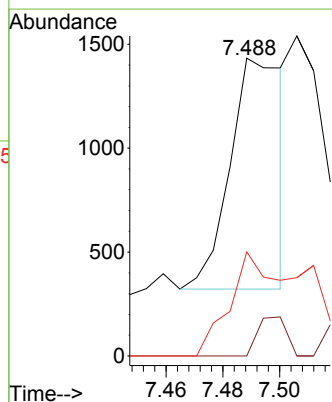
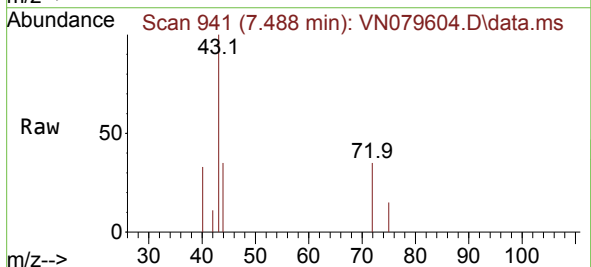
Instrument :
MSVOA_N
ClientSampleId :

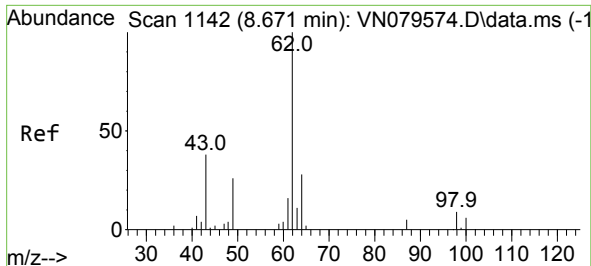
Tgt Ion:114 Resp: 119318
Ion Ratio Lower Upper
114 100
63 21.6 18.1 27.1
88 15.4 12.2 18.2



#30
2-Butanone
Concen: 0.822 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

Tgt Ion: 43 Resp: 1437
Ion Ratio Lower Upper
43 100
57 0.0 6.4 9.6#
72 39.8 20.7 31.1#

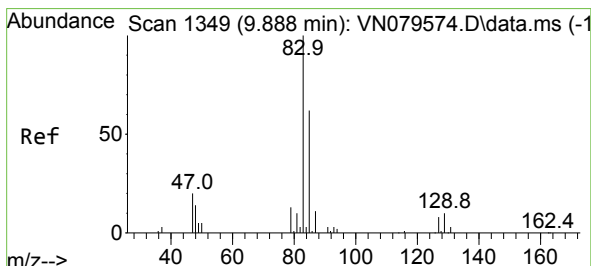
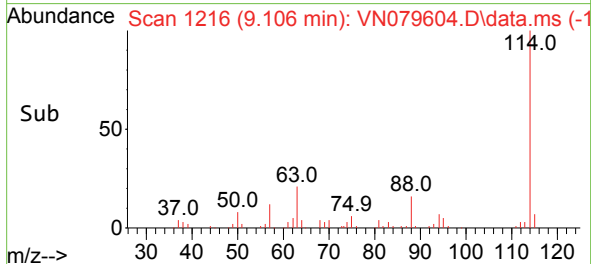
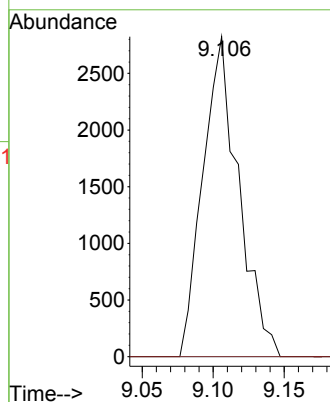
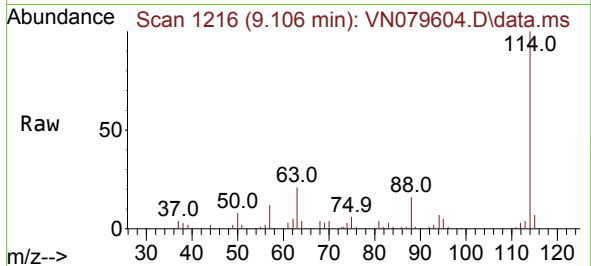




#36
1,2-Dichloroethane
Concen: 1.309 ug/l
RT: 9.106 min Scan# 1142
Delta R.T. 0.435 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

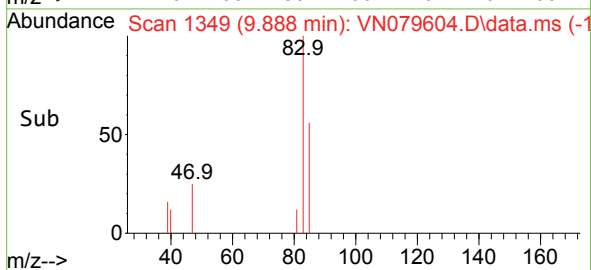
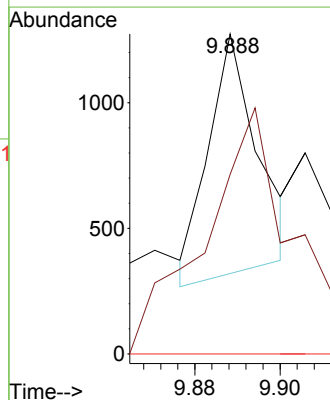
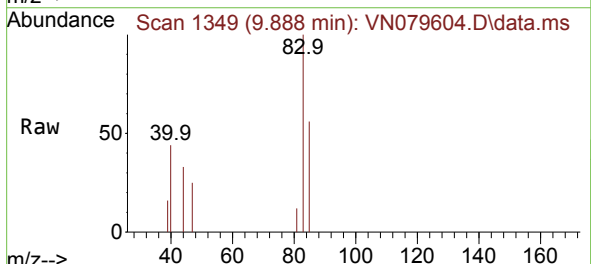
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MSVOA_N
ClientSampleId :

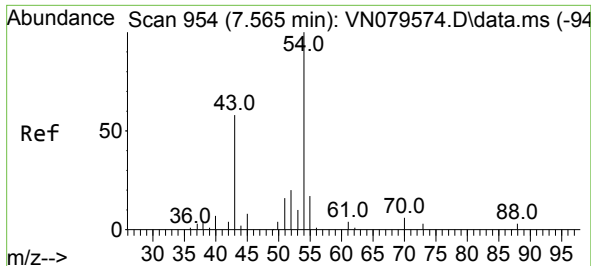
Tgt Ion: 62 Resp: 4950
Ion Ratio Lower Upper
62 100
98 0.0 7.2 10.8#



#41
Bromodichloromethane
Concen: 0.202 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

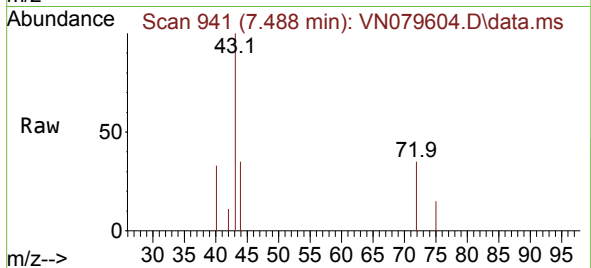
Tgt Ion: 83 Resp: 767
Ion Ratio Lower Upper
83 100
85 41.8 50.3 75.5#
127 0.0 6.8 10.2#



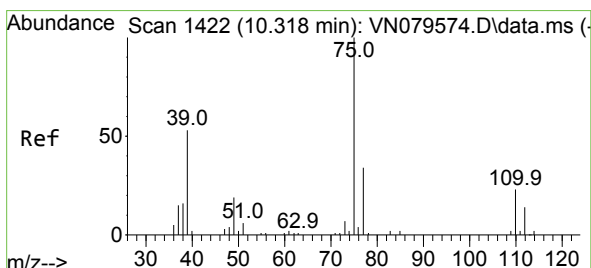
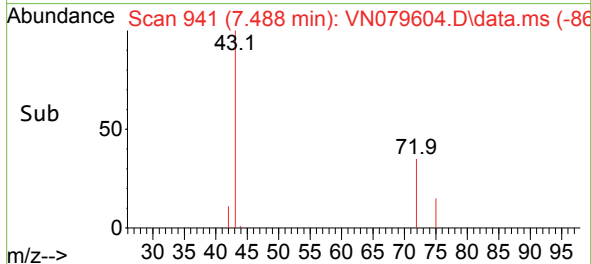
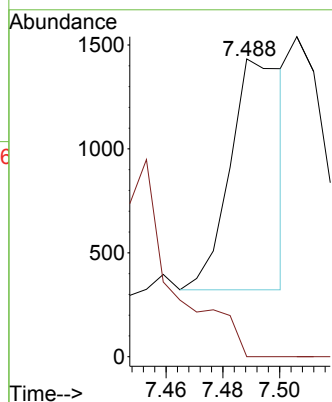


#43
Ethyl Acetate
Concen: 0.437 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.076 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

Instrument :
MSVOA_N
ClientSampleId :

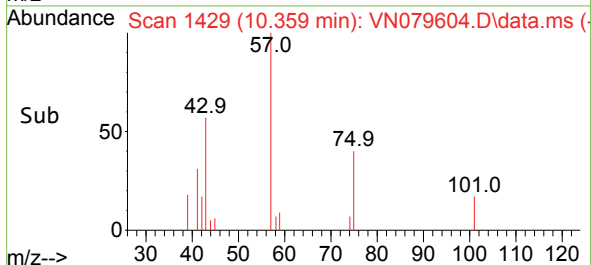
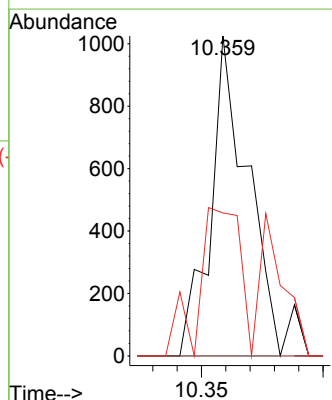
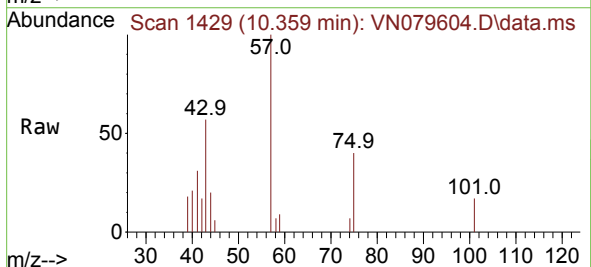


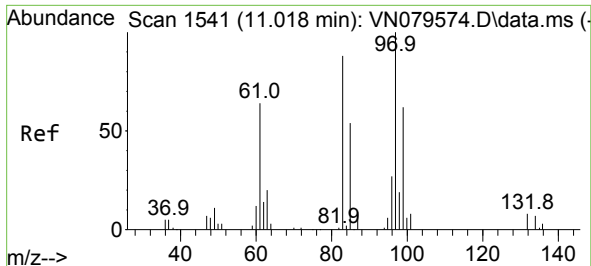
Tgt Ion: 43 Resp: 1437
Ion Ratio Lower Upper
43 100
45 15.1 11.8 17.8



#49
cis-1,3-Dichloropropene
Concen: 0.256 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

Tgt Ion: 75 Resp: 1075
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.6#
39 24.7 42.4 63.6#





#50

1,1,2-Trichloroethane

Concen: 2.598 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. -0.441 min

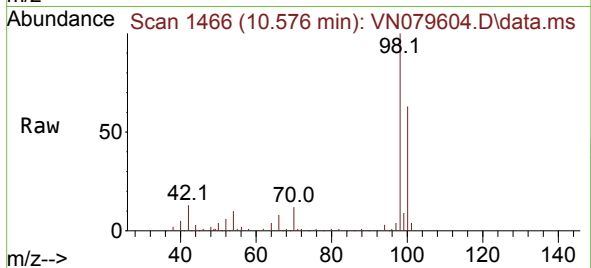
Lab File: VN079604.D

Acq: 18 Oct 2023 16:39

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 97 Resp: 6613

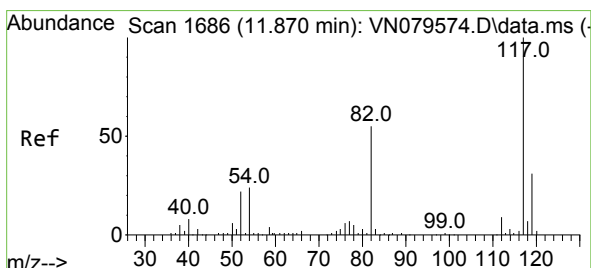
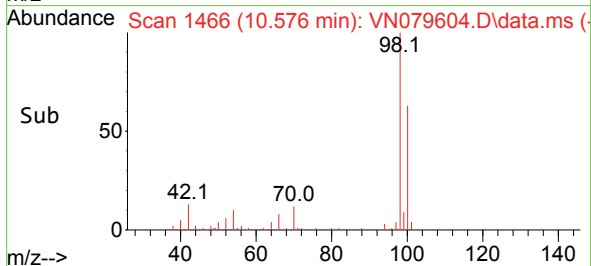
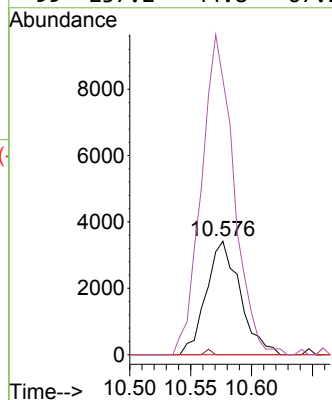
Ion Ratio Lower Upper

97 100

83 0.0 68.2 102.4#

85 0.0 42.9 64.3#

99 237.2 44.8 67.2#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.870 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VN079604.D

Acq: 18 Oct 2023 16:39

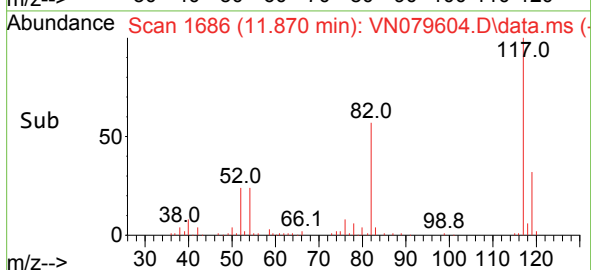
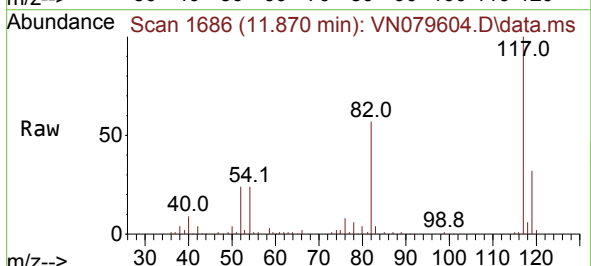
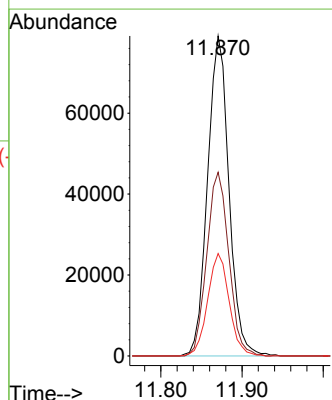
Tgt Ion: 117 Resp: 144691

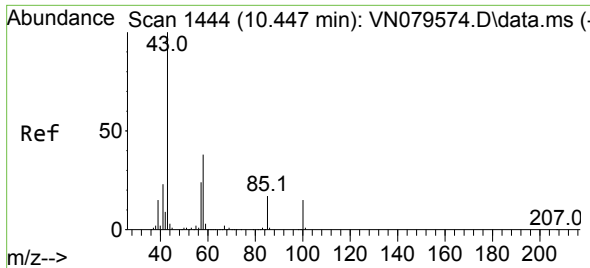
Ion Ratio Lower Upper

117 100

82 59.1 46.2 69.2

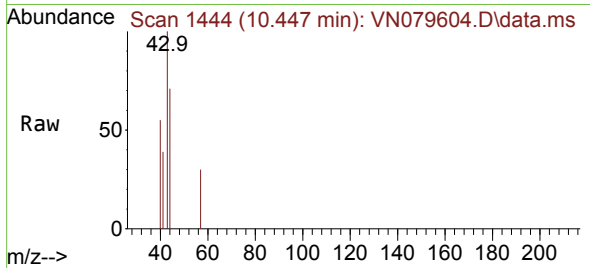
119 32.3 25.2 37.8



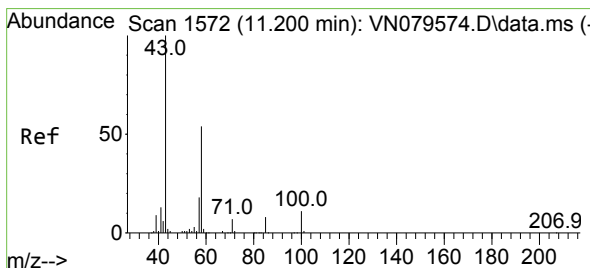
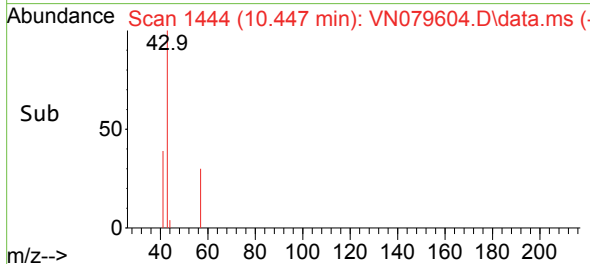
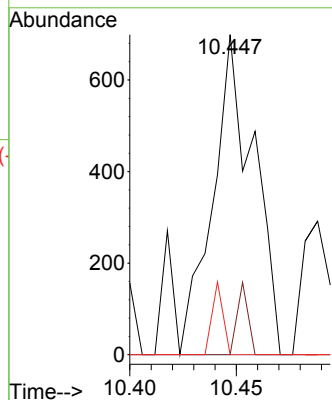


#58
4-Methyl-2-Pentanone
Concen: 0.277 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

Instrument :
MSVOA_N
ClientSampleId :

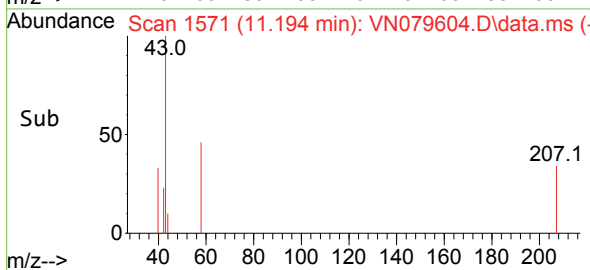
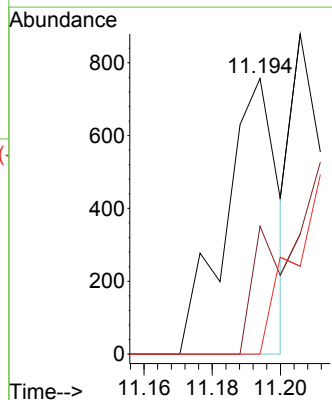
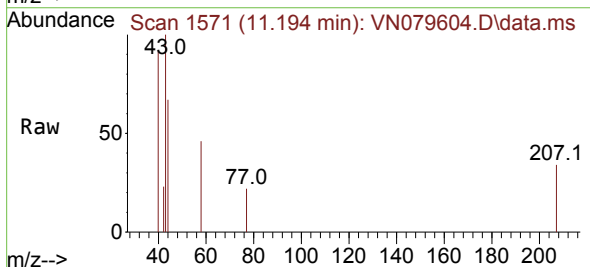


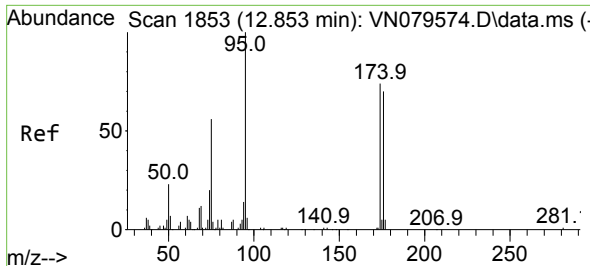
Tgt Ion: 43 Resp: 936
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#
85 0.0 13.2 19.8#



#59
2-Hexanone
Concen: 0.326 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.006 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

Tgt Ion: 43 Resp: 808
Ion Ratio Lower Upper
43 100
58 24.8 42.3 63.5#
57 0.0 13.9 20.9#

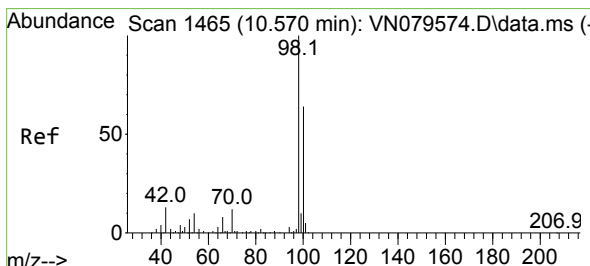
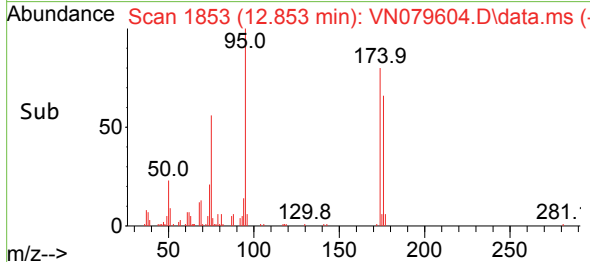
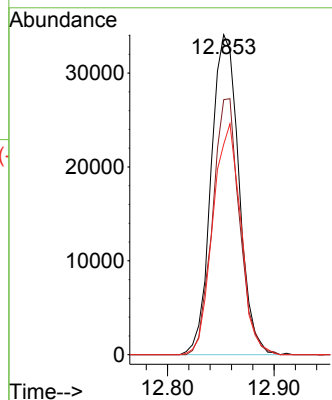
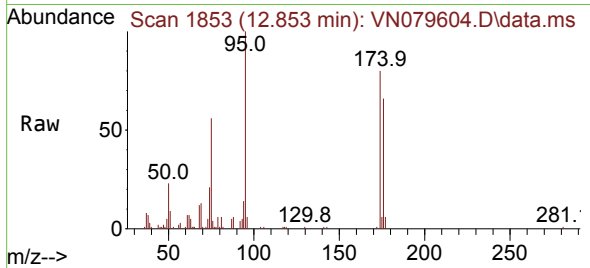




#60
4-Bromofluorobenzene
Concen: 23.305 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

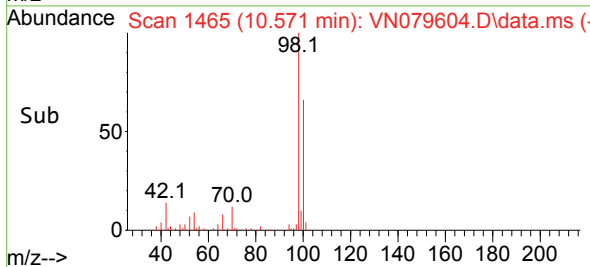
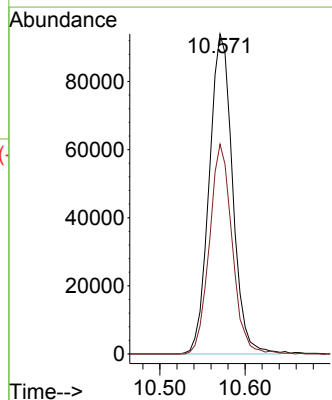
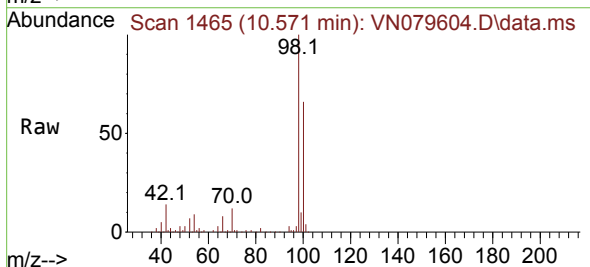
Instrument :
MSVOA_N
ClientSampleId :

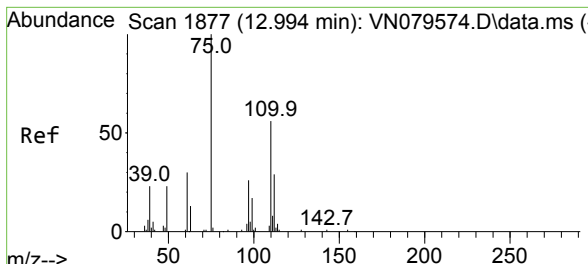
Tgt Ion: 95 Resp: 61666
Ion Ratio Lower Upper
95 100
174 77.9 60.5 90.7
176 72.6 57.2 85.8



#63
Toluene-d8
Concen: 28.794 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079604.D
Acq: 18 Oct 2023 16:39

Tgt Ion: 98 Resp: 178529
Ion Ratio Lower Upper
98 100
100 63.4 51.6 77.4

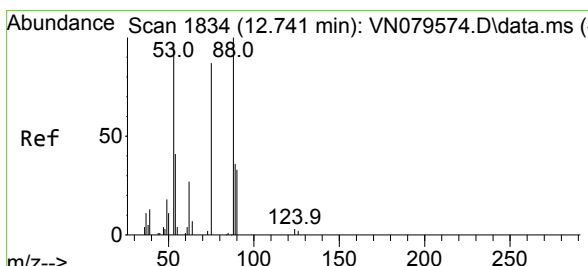
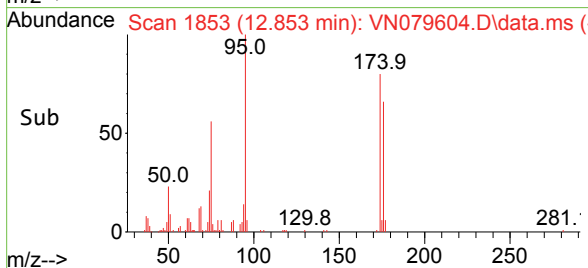
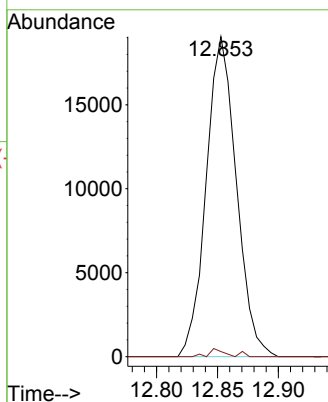
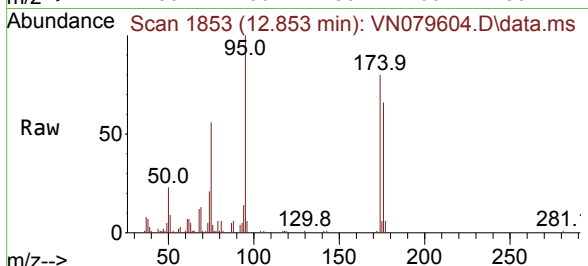




#72
 1,2,3-Trichloropropane
 Concen: 9.857 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.141 min
 Lab File: VN079604.D
 Acq: 18 Oct 2023 16:39

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 75 Resp: 32907
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 338.2



#77
 t-1,4-Dichloro-2-butene
 Concen: 32.297 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN079604.D
 Acq: 18 Oct 2023 16:39

Tgt Ion: 75 Resp: 32907
 Ion Ratio Lower Upper
 75 100
 53 1.2 53.0 159.1#
 89 0.0 22.6 67.7#

