

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022324\
 Data File : VN081159.D
 Acq On : 23 Feb 2024 14:16
 Operator : JC\MD
 Sample : P1500-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Feb 24 00:13:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:55:02 2024
 Response via : Initial Calibration

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

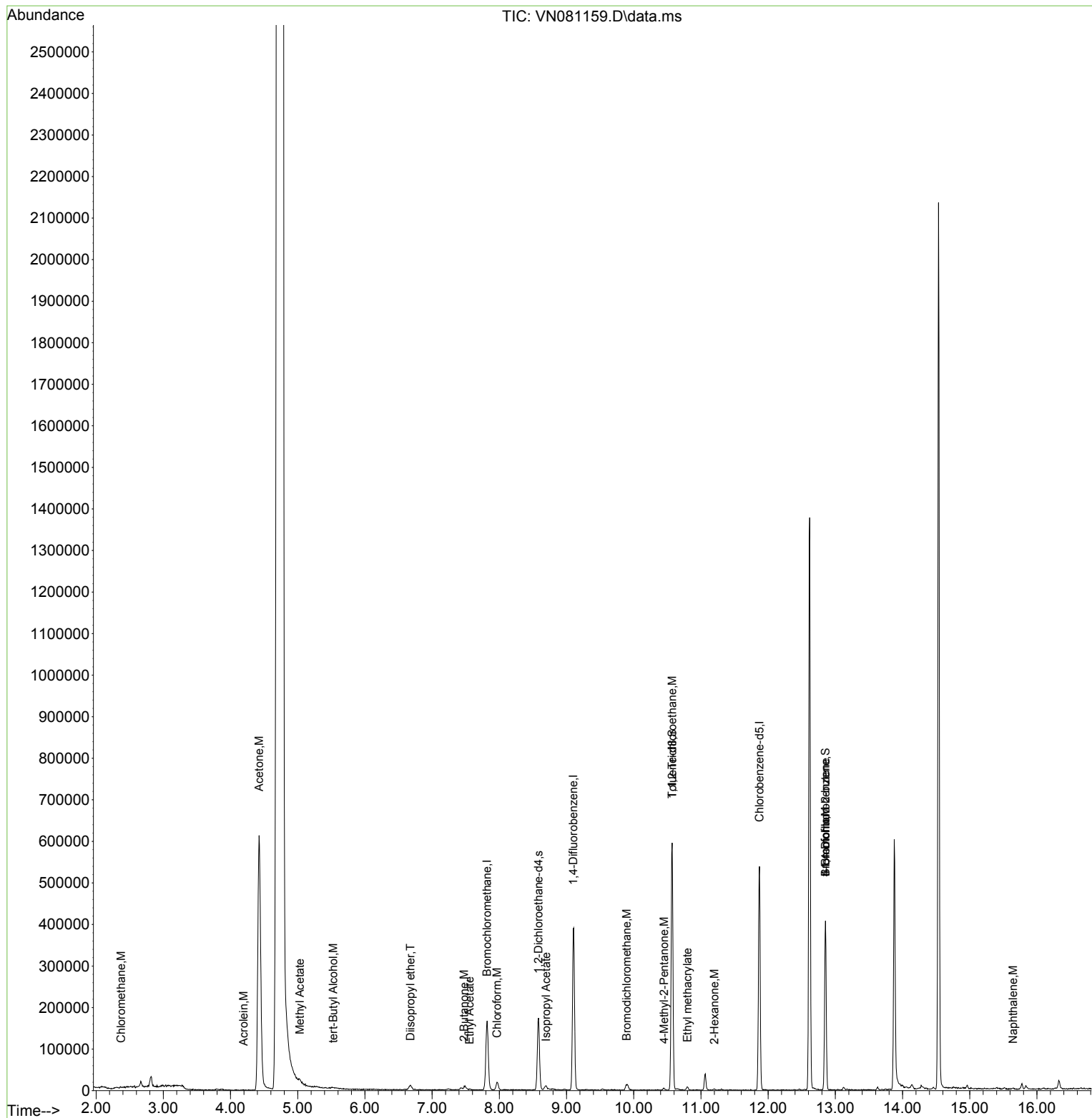
Internal Standards						
1) Bromochloromethane	7.818	128	57434	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	342147	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	310781	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	140313	32.513	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	108.367%
60) 4-Bromofluorobenzene	12.853	95	139662	29.395	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.000%
63) Toluene-d8	10.571	98	415091	29.762	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.200%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1236	0.315	ug/l #	43
12) Methyl Acetate	5.030	43	11095	3.736	ug/l	100
13) Acrolein	4.195	56	202	0.312	ug/l	91
15) Acetone	4.424	58	369619	1089.425	ug/l	86
20) Diisopropyl ether	6.677	45	12716	1.285	ug/l #	80
23) tert-Butyl Alcohol	5.530	59	2835	5.277	ug/l #	100
25) Chloroform	7.965	83	17016	2.419	ug/l #	79
30) 2-Butanone	7.477	43	13585	7.265	ug/l #	53
41) Bromodichloromethane	9.894	83	2119	0.385	ug/l #	54
43) Ethyl Acetate	7.559	43	2767	0.710	ug/l	96
44) Isopropyl Acetate	8.694	43	10564	1.510	ug/l #	52
50) 1,1,2-Trichloroethane	10.571	97	11665	3.000	ug/l #	1
51) Ethyl methacrylate	10.800	69	1357	0.250	ug/l #	20
56) Bromoform	12.853	173	933	0.346	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	1468	0.364	ug/l #	34
59) 2-Hexanone	11.200	43	2495	0.841	ug/l #	83
77) t-1,4-Dichloro-2-butene	12.853	75	76197	49.686	ug/l #	12
91) Naphthalene	15.647	128	2577	0.203	ug/l #	69

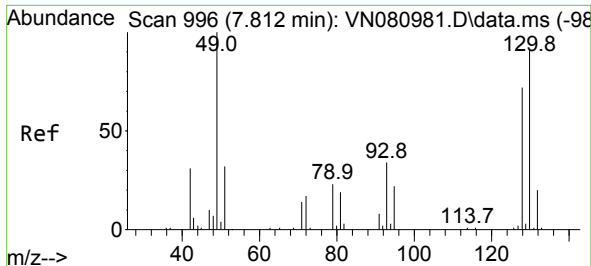
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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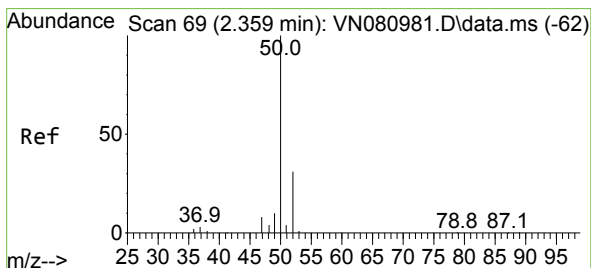
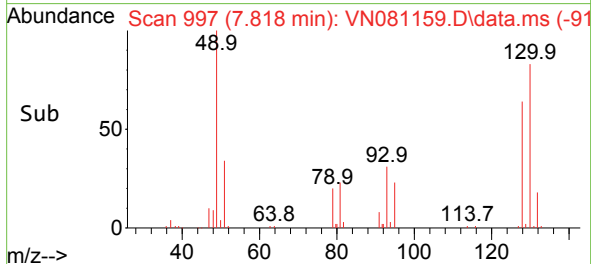
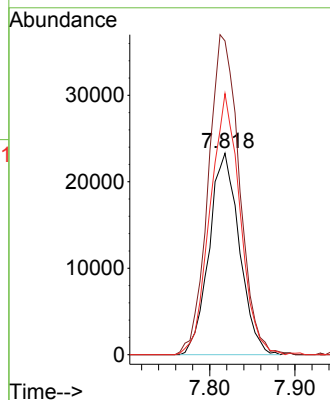
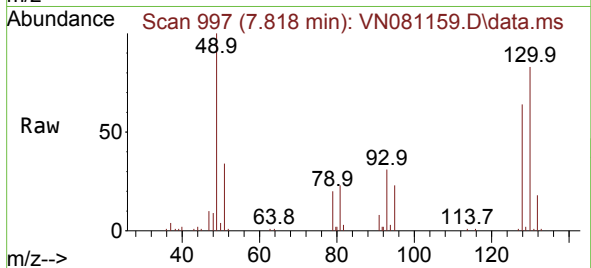




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

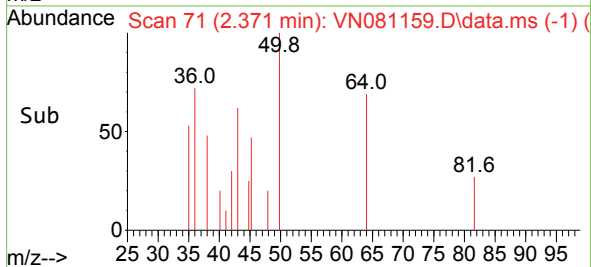
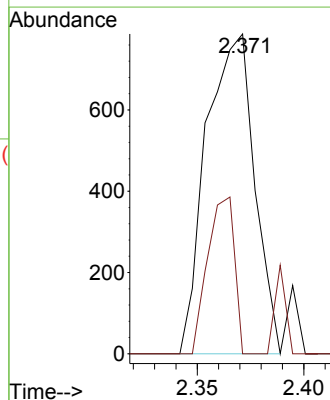
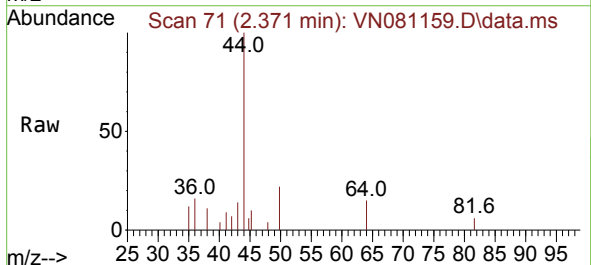
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

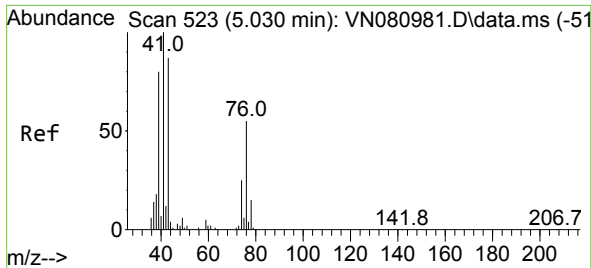
Tgt Ion:128 Resp: 57434
Ion Ratio Lower Upper
128 100
49 162.8 0.0 403.7
130 128.3 0.0 323.3



#3
Chloromethane
Concen: 0.315 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.012 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

Tgt Ion: 50 Resp: 1236
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.0#

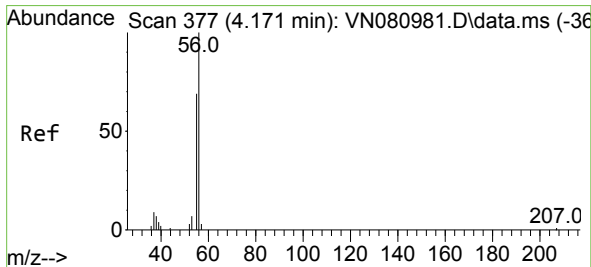
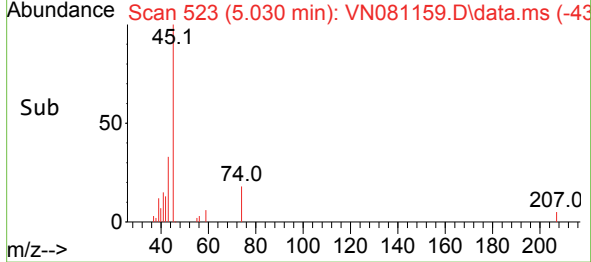
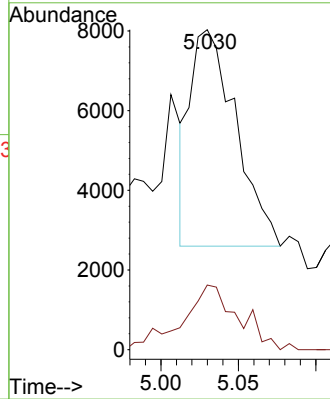
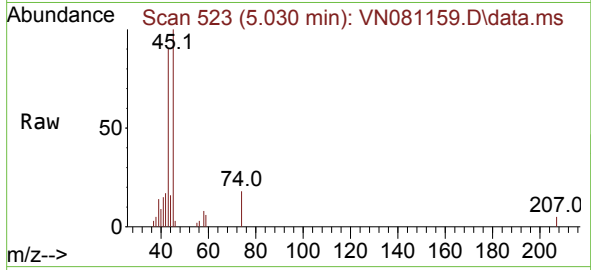




#12
Methyl Acetate
Concen: 3.736 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

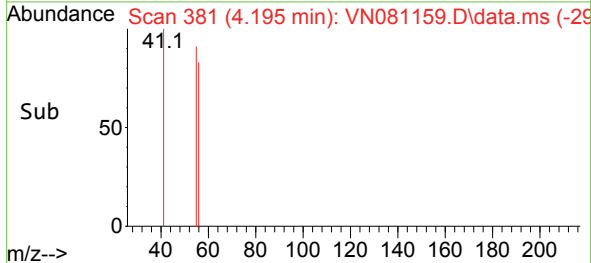
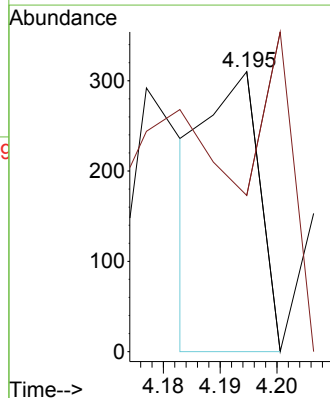
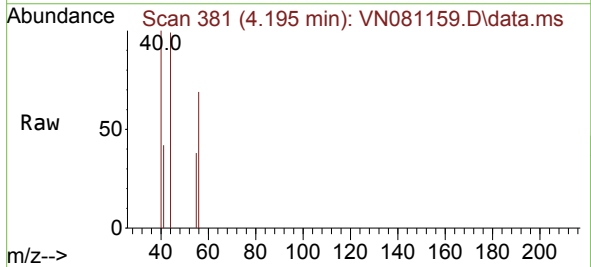
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

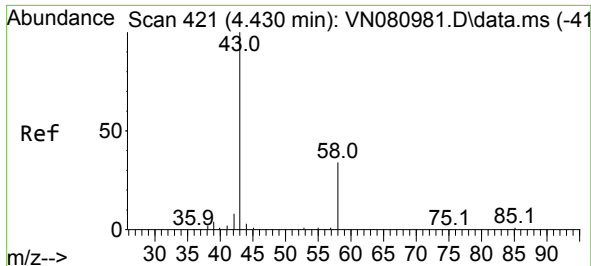
Tgt Ion: 43 Resp: 11095
Ion Ratio Lower Upper
43 100
74 34.6 27.7 41.5



#13
Acrolein
Concen: 0.312 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.024 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

Tgt Ion: 56 Resp: 202
Ion Ratio Lower Upper
56 100
55 61.9 55.5 83.3

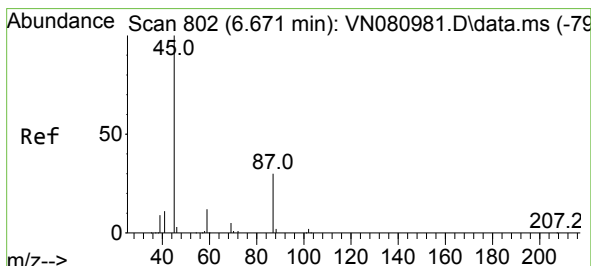
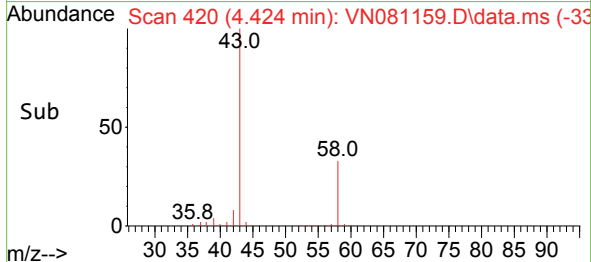
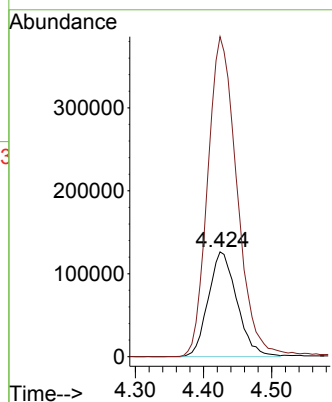
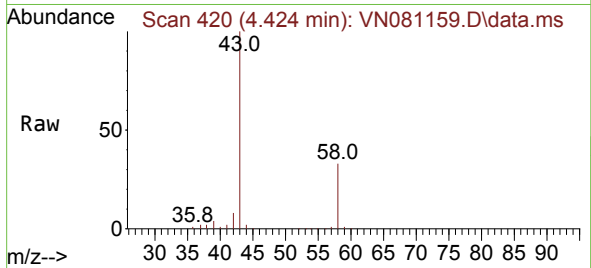




#15
Acetone
Concen: 1089.425 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

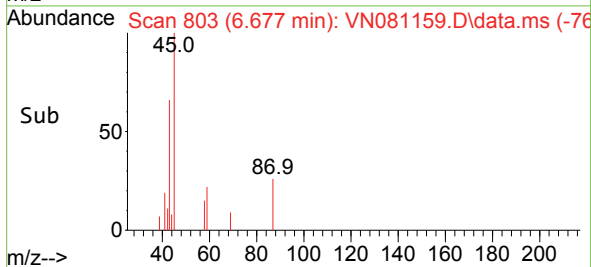
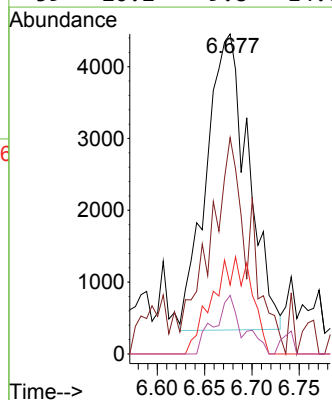
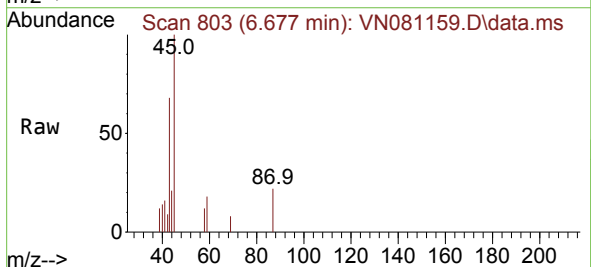
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

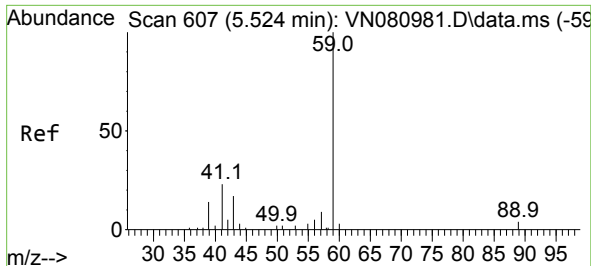
Tgt Ion: 58 Resp: 369619
Ion Ratio Lower Upper
58 100
43 305.0 223.1 334.7



#20
Diisopropyl ether
Concen: 1.285 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

Tgt Ion: 45 Resp: 12716
Ion Ratio Lower Upper
45 100
43 68.2 40.4 60.6#
87 23.7 23.8 35.8#
59 20.2 9.8 14.6#

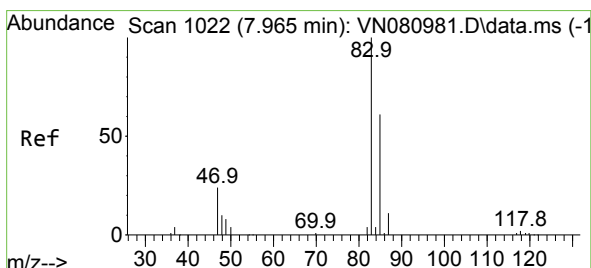
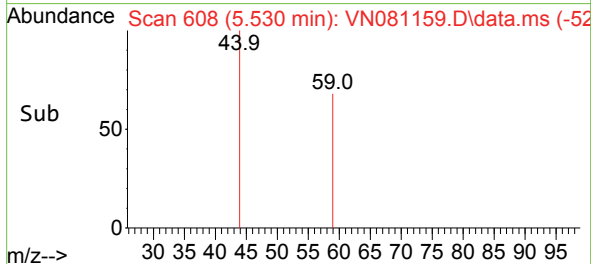
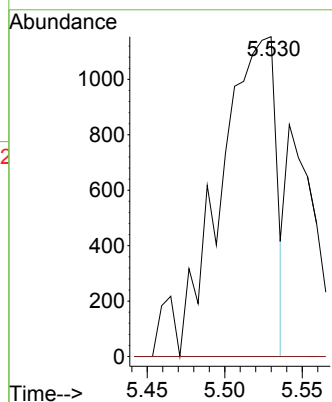
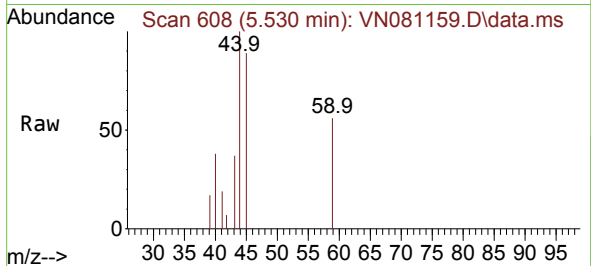




#23
tert-Butyl Alcohol
Concen: 5.277 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

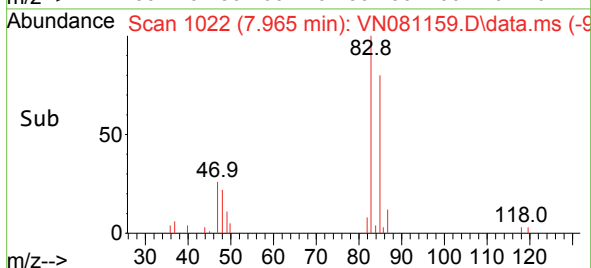
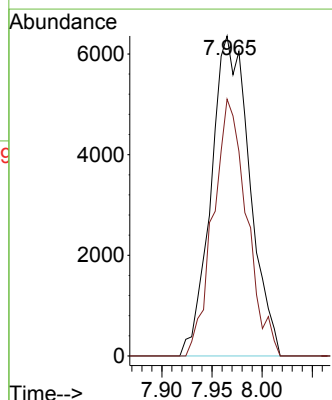
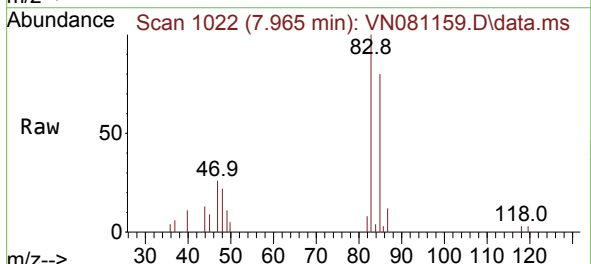
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

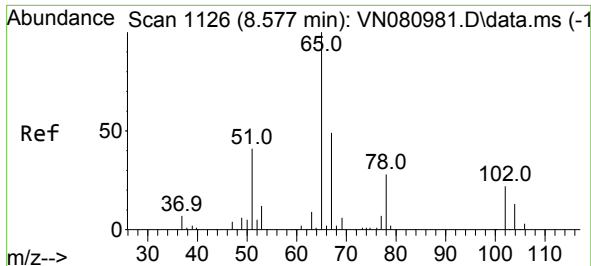
Tgt Ion: 59 Resp: 2835
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 2.419 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

Tgt Ion: 83 Resp: 17016
Ion Ratio Lower Upper
83 100
85 80.2 50.9 76.3#





#27

1,2-Dichloroethane-d4

Concen: 32.513 ug/l

RT: 8.583 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN081159.D

Acq: 23 Feb 2024 14:16

Instrument :

MSVOA_N

ClientSampleId :

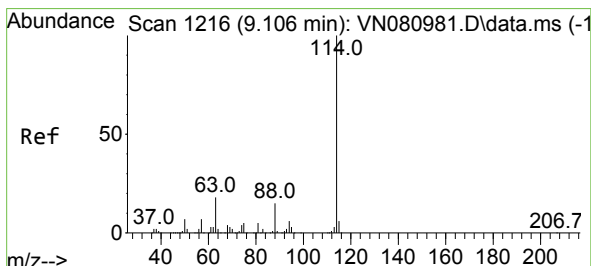
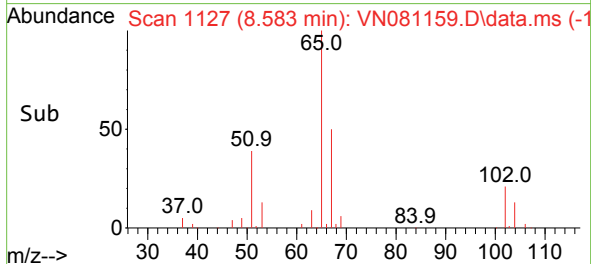
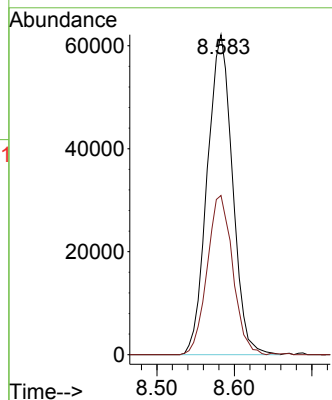
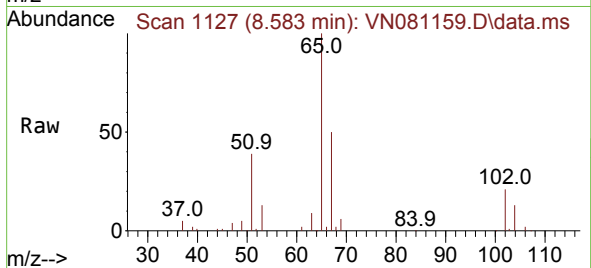
EFF-WW

Tgt Ion: 65 Resp: 140313

Ion Ratio Lower Upper

65 100

67 50.4 43.2 64.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN081159.D

Acq: 23 Feb 2024 14:16

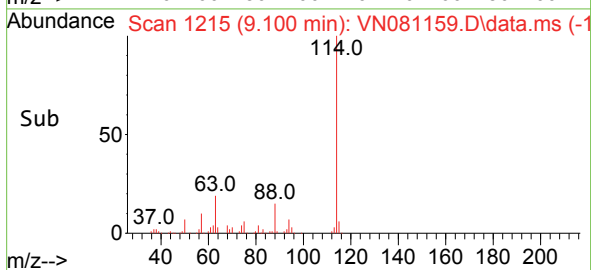
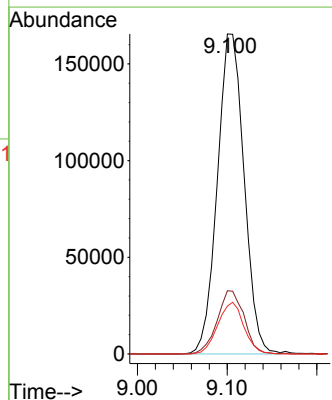
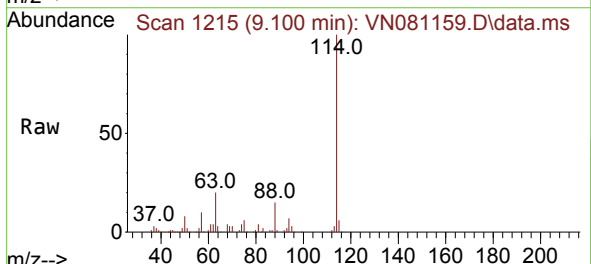
Tgt Ion: 114 Resp: 342147

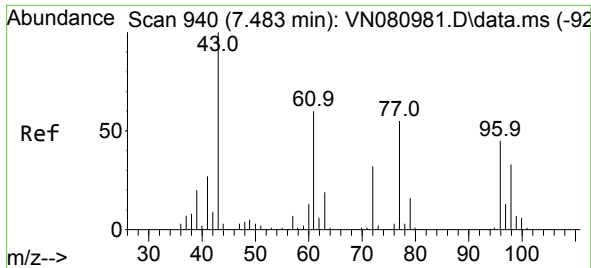
Ion Ratio Lower Upper

114 100

63 19.9 15.9 23.9

88 15.8 12.7 19.1

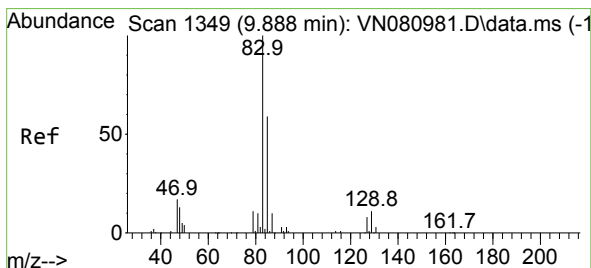
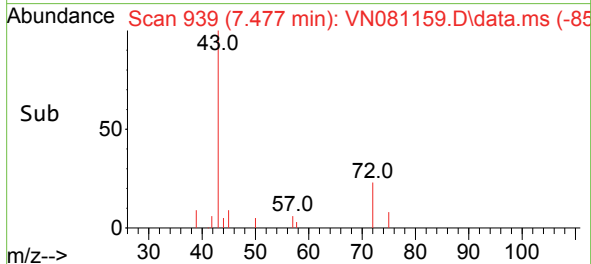
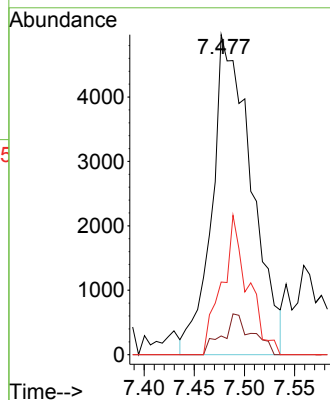
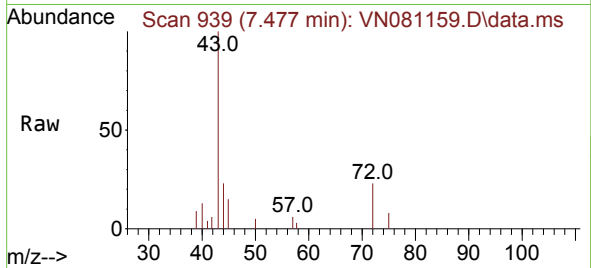




#30
2-Butanone
Concen: 7.265 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

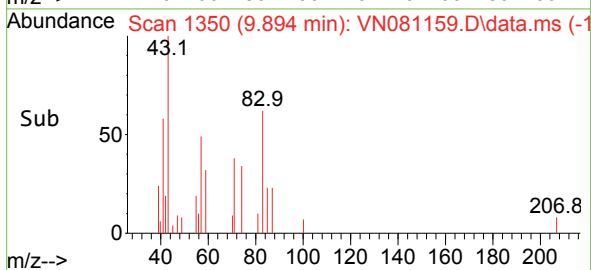
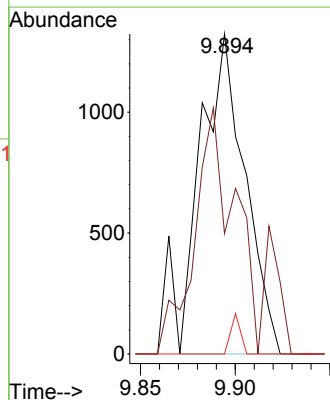
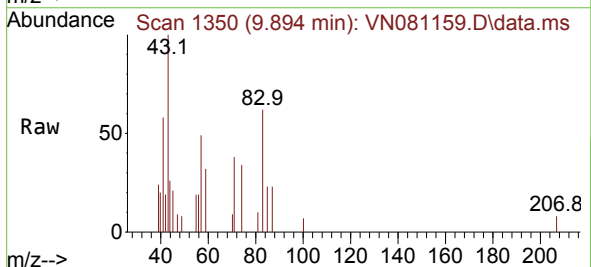
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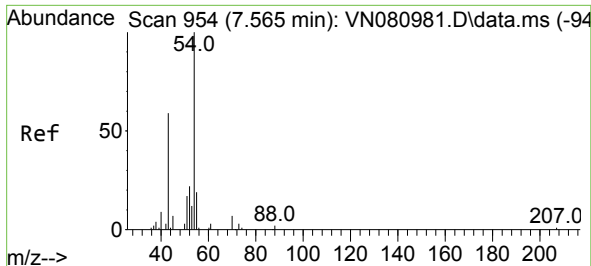
Tgt Ion: 43 Resp: 13585
Ion Ratio Lower Upper
43 100
57 2.7 6.7 10.1#
72 0.0 24.0 36.0#



#41
Bromodichloromethane
Concen: 0.385 ug/l
RT: 9.894 min Scan# 1350
Delta R.T. 0.006 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

Tgt Ion: 83 Resp: 2119
Ion Ratio Lower Upper
83 100
85 23.9 49.4 74.2#
127 0.0 7.3 10.9#

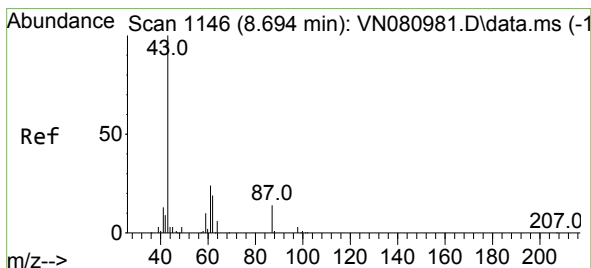
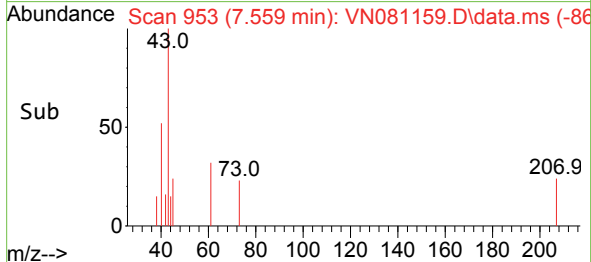
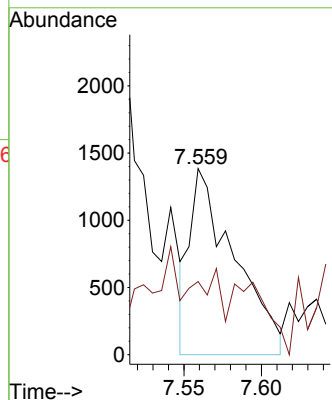
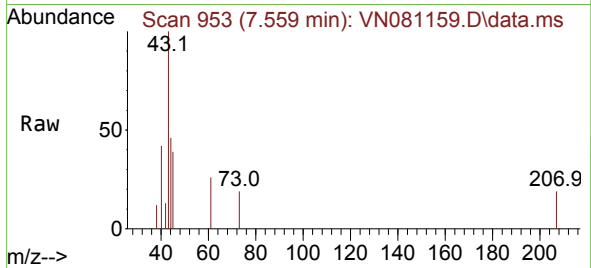




#43
Ethyl Acetate
Concen: 0.710 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

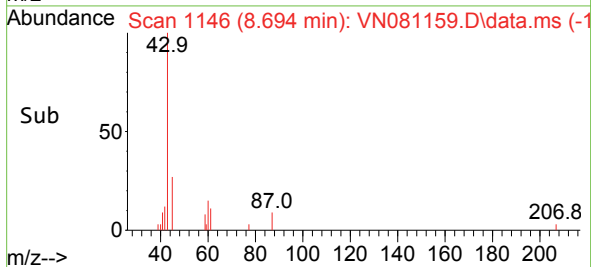
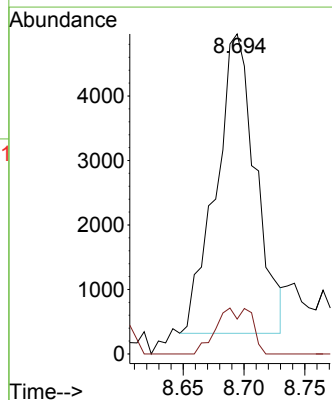
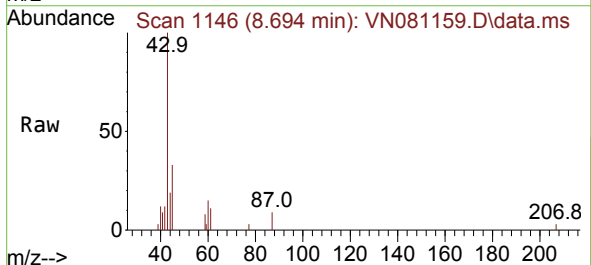
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

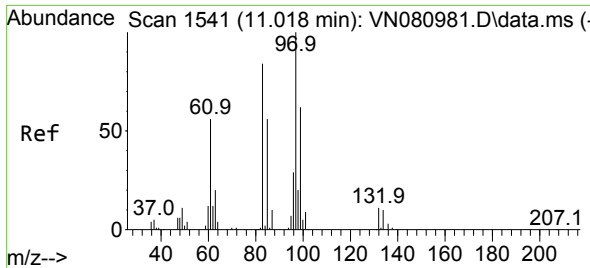
Tgt Ion: 43 Resp: 2767
Ion Ratio Lower Upper
43 100
45 11.6 10.6 15.8



#44
Isopropyl Acetate
Concen: 1.510 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

Tgt Ion: 43 Resp: 10564
Ion Ratio Lower Upper
43 100
61 5.0 25.0 37.4#

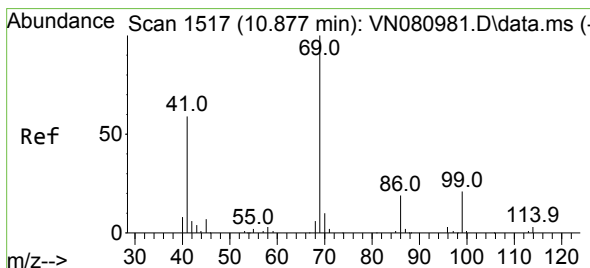
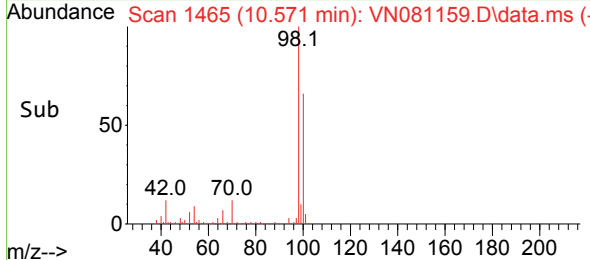
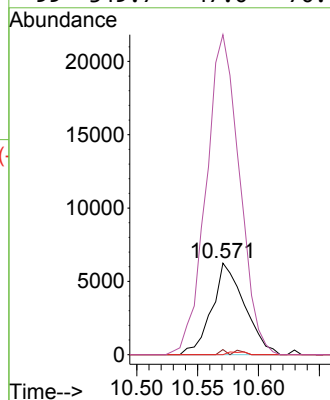
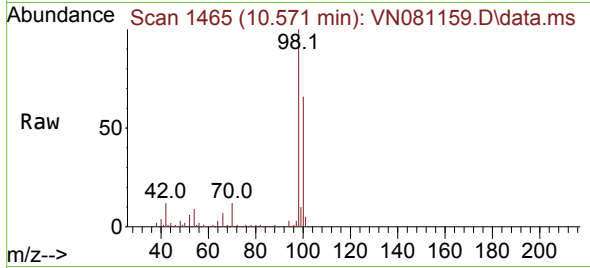




#50
1,1,2-Trichloroethane
Concen: 3.000 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.447 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

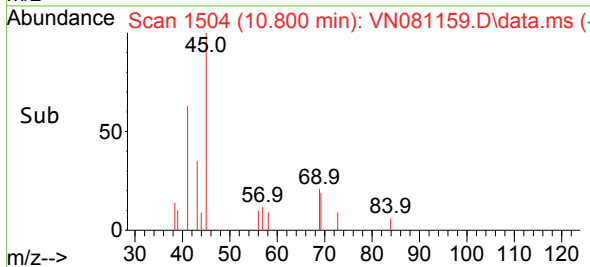
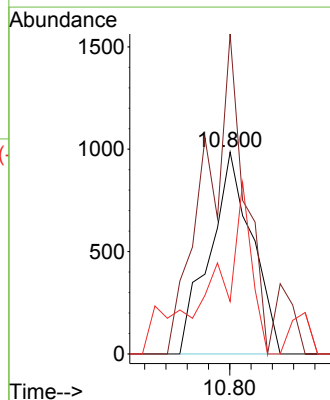
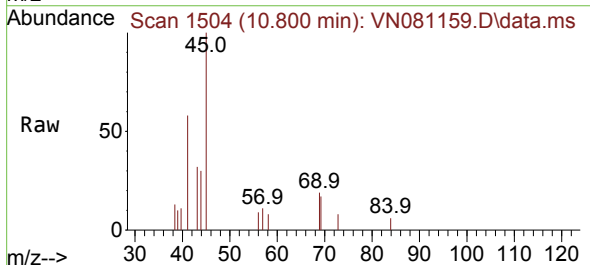
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

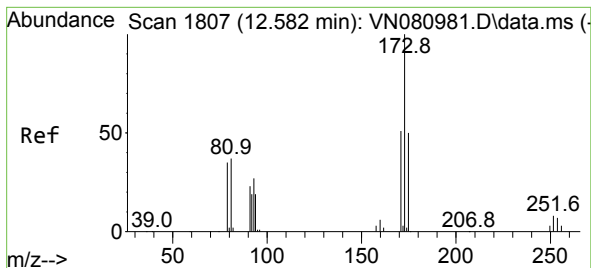
Tgt Ion: 97	Resp: 11665
Ion Ratio	Lower Upper
97 100	
83 5.7	68.1 102.1#
85 0.0	41.8 62.6#
99 349.7	47.0 70.4#



#51
Ethyl methacrylate
Concen: 0.250 ug/l
RT: 10.800 min Scan# 1504
Delta R.T. -0.076 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

Tgt Ion: 69	Resp: 1357
Ion Ratio	Lower Upper
69 100	
41 123.7	25.5 76.5#
39 54.8	16.0 47.9#





#56

Bromoform

Concen: 0.346 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN081159.D

Acq: 23 Feb 2024 14:16

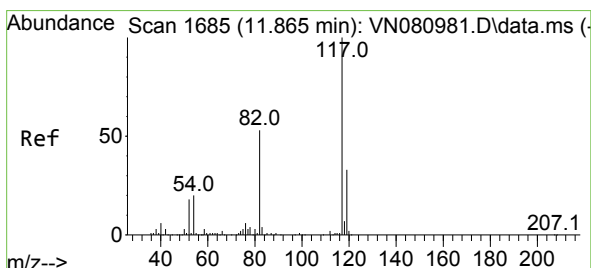
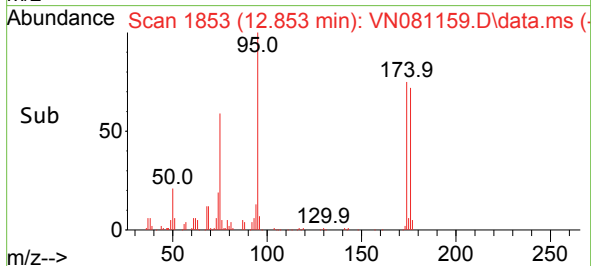
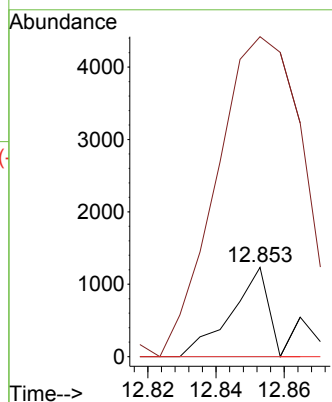
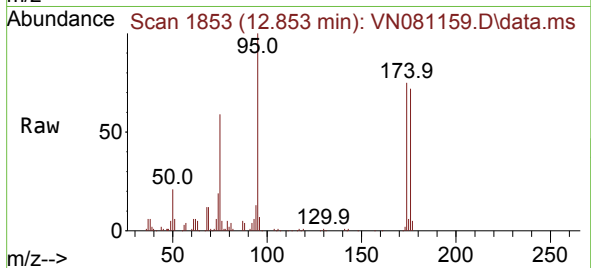
Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

Tgt Ion:	173	Resp:	933
Ion Ratio	Lower	Upper	
173	100		
175	849.4	40.0	60.0#
254	0.0	8.3	12.5#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

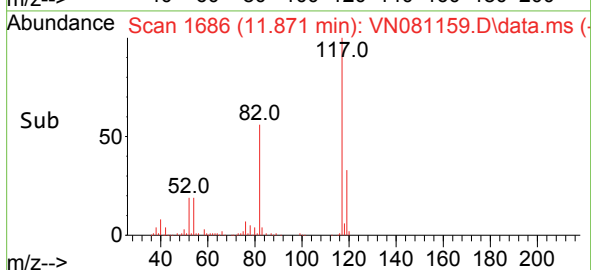
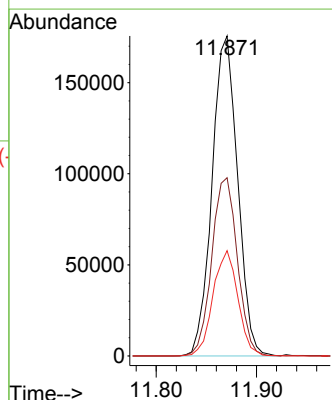
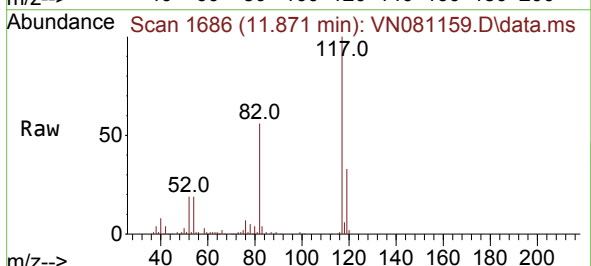
RT: 11.871 min Scan# 1686

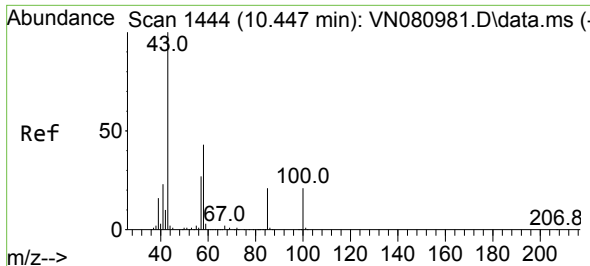
Delta R.T. 0.006 min

Lab File: VN081159.D

Acq: 23 Feb 2024 14:16

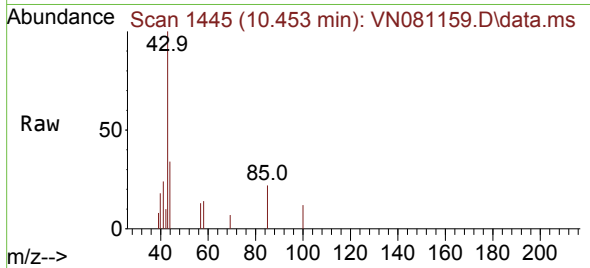
Tgt Ion:	117	Resp:	310781
Ion Ratio	Lower	Upper	
117	100		
82	55.8	46.6	69.8
119	32.0	25.4	38.2



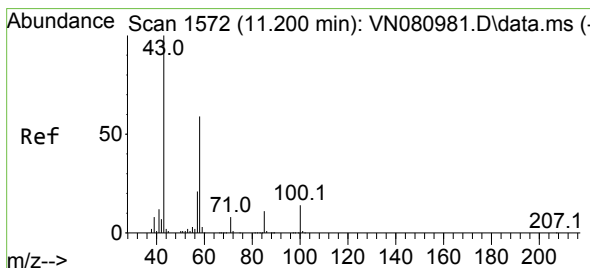
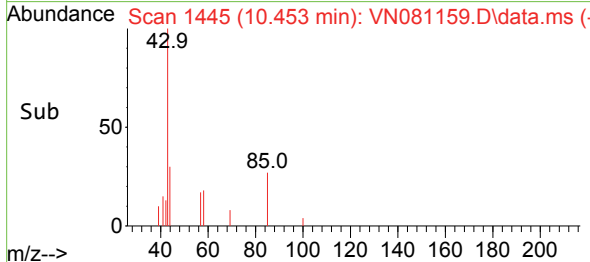
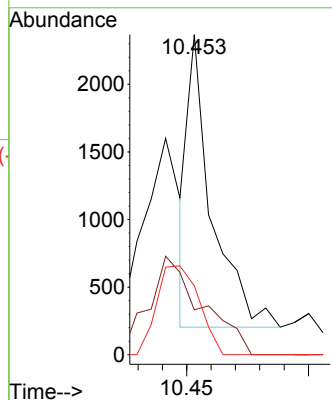


#58
4-Methyl-2-Pentanone
Concen: 0.364 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

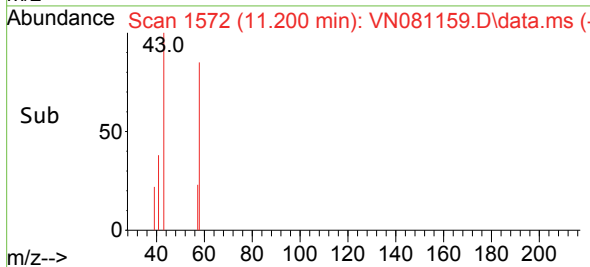
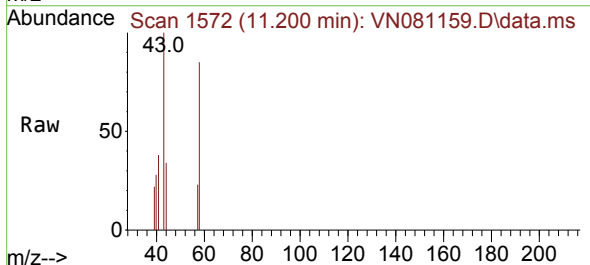
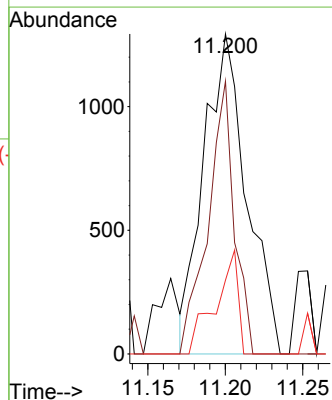


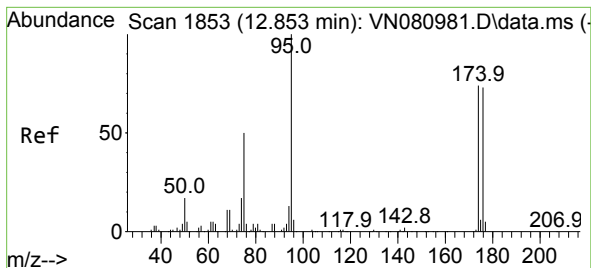
Tgt Ion: 43 Resp: 1468
Ion Ratio Lower Upper
43 100
58 0.0 36.5 54.7#
85 54.0 19.5 29.3#



#59
2-Hexanone
Concen: 0.841 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

Tgt Ion: 43 Resp: 2495
Ion Ratio Lower Upper
43 100
58 52.3 50.4 75.6
57 10.1 18.6 27.8#

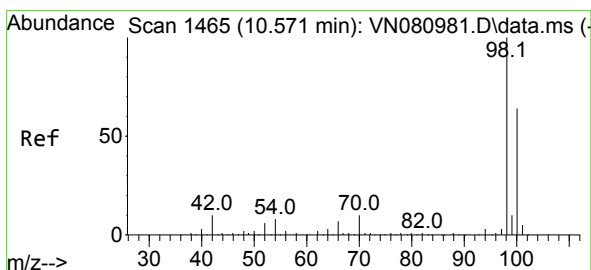
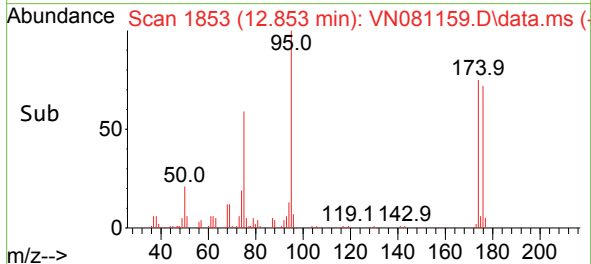
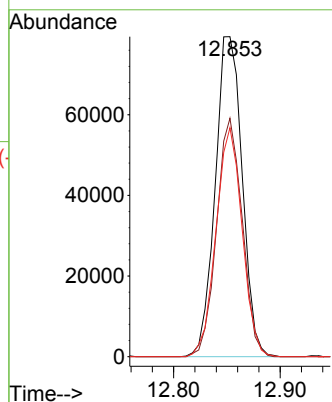
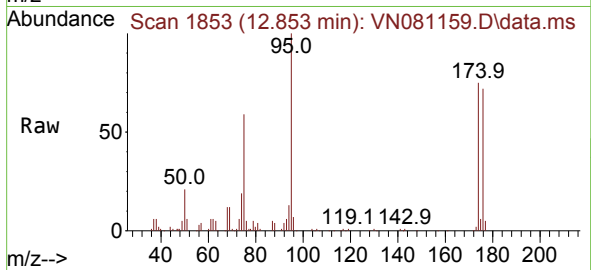




#60
4-Bromofluorobenzene
Concen: 29.395 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

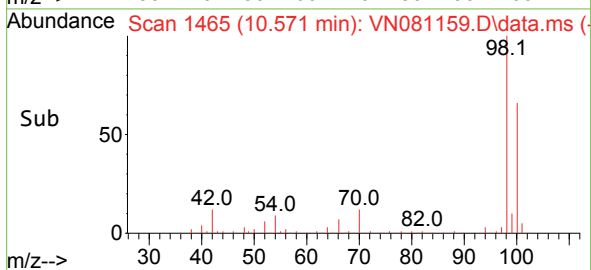
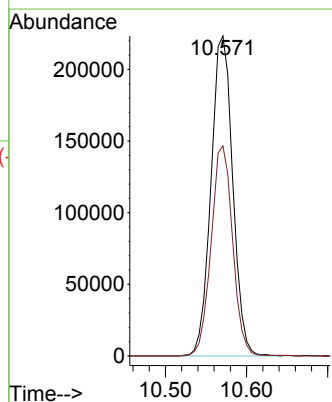
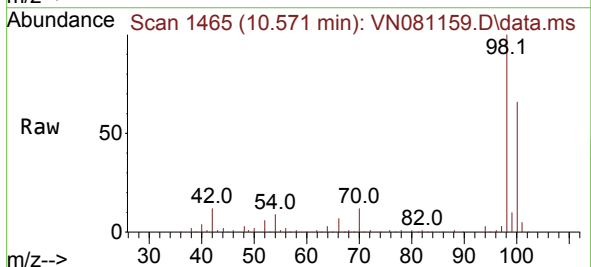
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

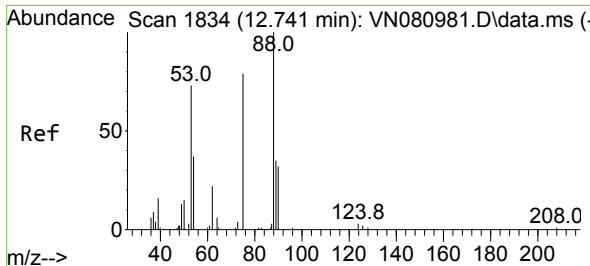
Tgt Ion: 95 Resp: 139662
Ion Ratio Lower Upper
95 100
174 70.6 60.5 90.7
176 69.2 57.8 86.6



#63
Toluene-d8
Concen: 29.762 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

Tgt Ion: 98 Resp: 415091
Ion Ratio Lower Upper
98 100
100 64.9 52.7 79.1

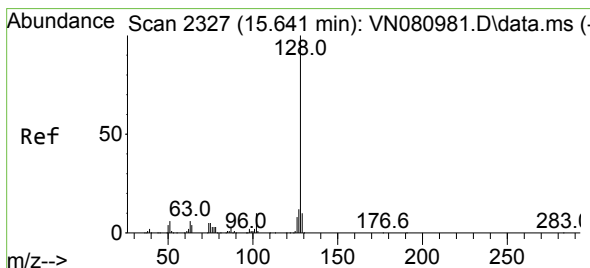
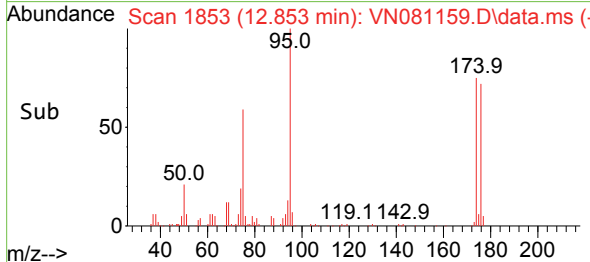
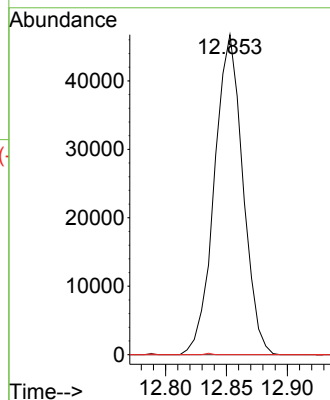
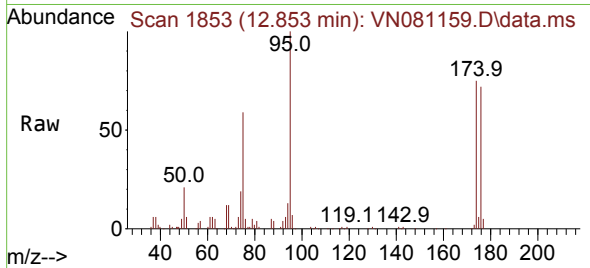




#77
t-1,4-Dichloro-2-butene
Concen: 49.686 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 75 Resp: 76197
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



#91
Naphthalene
Concen: 0.203 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.006 min
Lab File: VN081159.D
Acq: 23 Feb 2024 14:16

Tgt Ion: 128 Resp: 2577
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 13.0#

