

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085139.D
 Acq On : 06 Dec 2024 20:03
 Operator : JC\MD
 Sample : P5192-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WASTE WATER

Quant Time: Dec 06 23:14:06 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

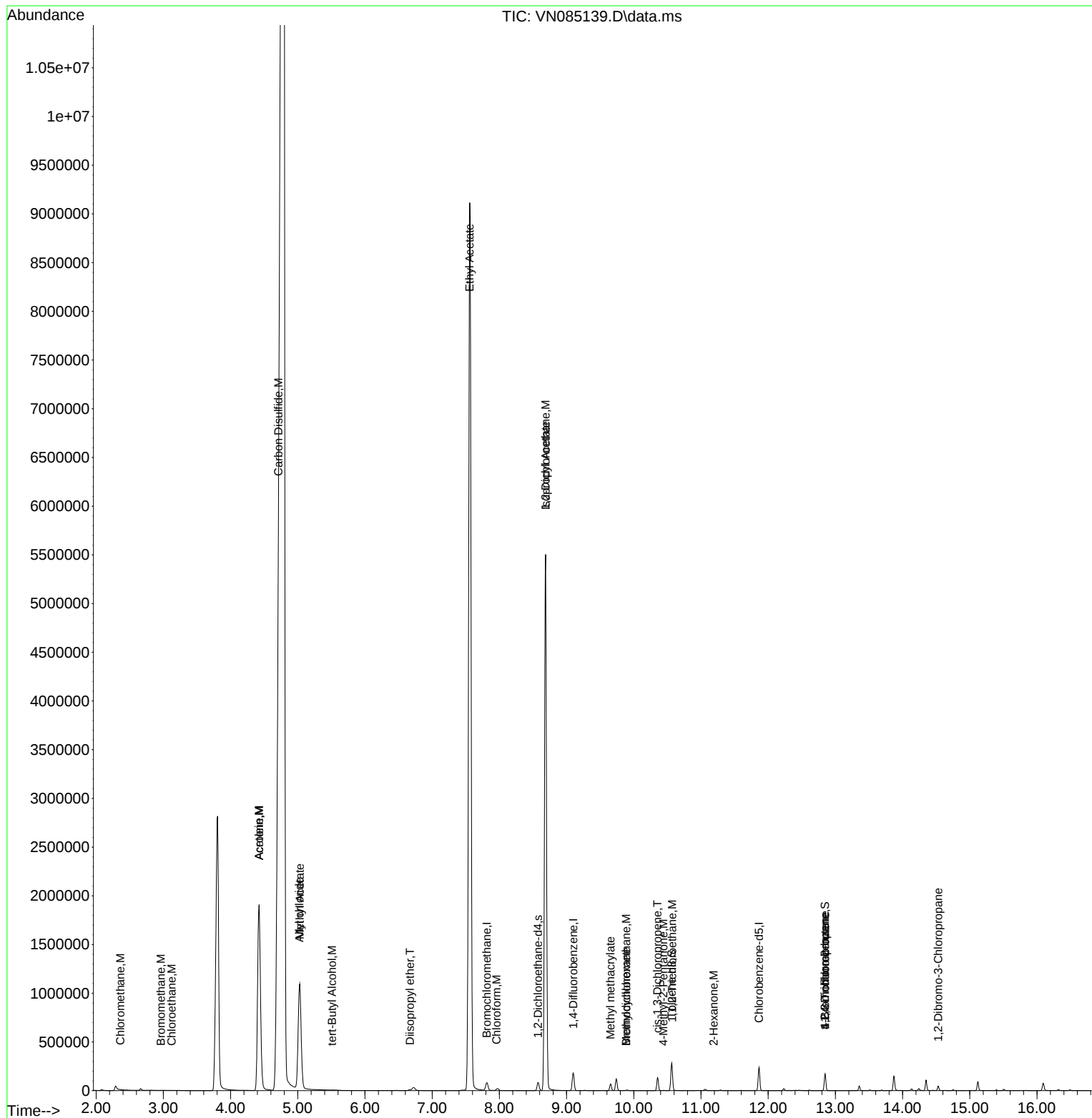
Internal Standards						
1) Bromochloromethane	7.812	128	27788	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	156041	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	135206	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	70436	31.945	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.500%
60) 4-Bromofluorobenzene	12.847	95	59647	26.662	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	88.867%
63) Toluene-d8	10.565	98	192865	30.409	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.367%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	764	0.388	ug/l #	77
5) Bromomethane	2.965	94	580	0.454	ug/l	87
6) Chloroethane	3.124	64	465	0.376	ug/l #	43
12) Methyl Acetate	5.030	43	2142692	1073.252	ug/l	99
13) Acrolein	4.424	56	258	0.889	ug/l #	1
15) Acetone	4.424	58	1160124	5164.239	ug/l	95
16) Carbon Disulfide	4.712	76	1941	0.384	ug/l #	75
17) Allyl chloride	5.024	41	32278	13.330	ug/l #	32
20) Diisopropyl ether	6.671	45	12101	2.277	ug/l	98
23) tert-Butyl Alcohol	5.512	59	746	2.509	ug/l #	100
25) Chloroform	7.959	83	10088	2.936	ug/l	96
36) 1,2-Dichloroethane	8.688	62	29641	11.008	ug/l #	75
38) Methylcyclohexane	9.888	83	1153	0.421	ug/l #	19
41) Bromodichloromethane	9.888	83	1153	0.392	ug/l #	33
43) Ethyl Acetate	7.559	43	13495642	5870.060	ug/l	95
44) Isopropyl Acetate	8.688	43	6196413	1550.908	ug/l #	88
46) Methyl methacrylate	9.653	41	1114	0.609	ug/l #	22
49) cis-1,3-Dichloropropene	10.353	75	23940	7.625	ug/l #	68
50) 1,1,2-Trichloroethane	10.571	97	6631	3.581	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	2725	1.235	ug/l #	67
59) 2-Hexanone	11.188	43	732	0.438	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	31765	13.553	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	31765	37.297	ug/l #	10
88) 1,2-Dibromo-3-Chloropr...	14.529	75	1348	2.844	ug/l #	5

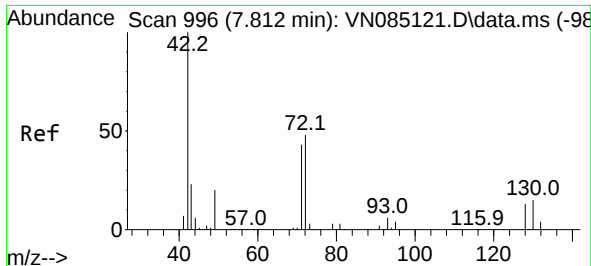
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 06 23:14:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration

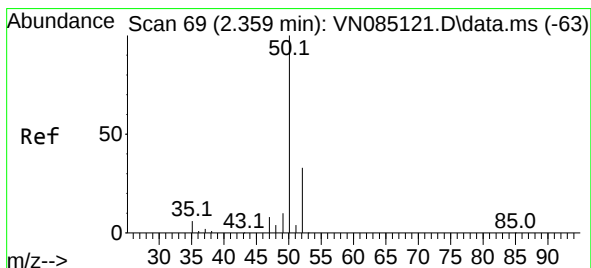
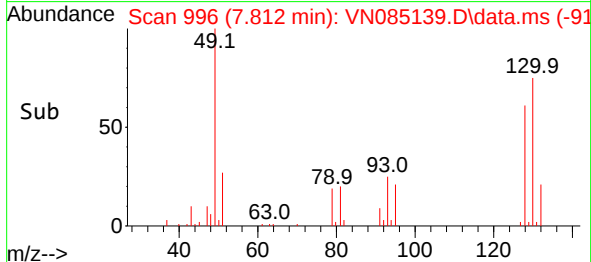
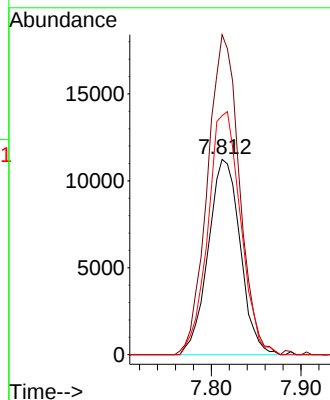
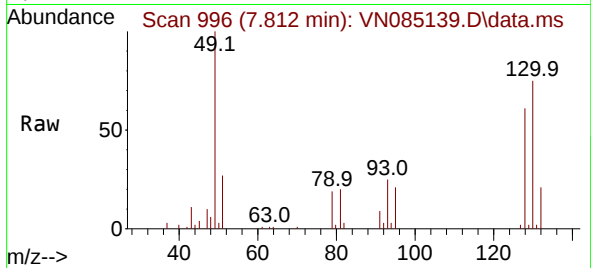




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

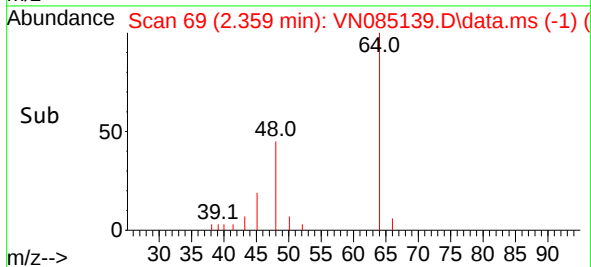
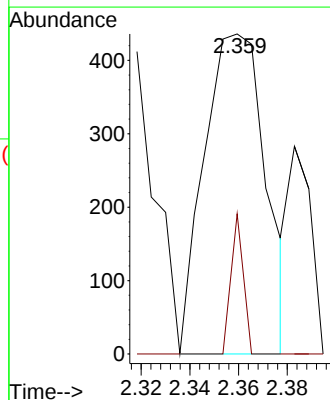
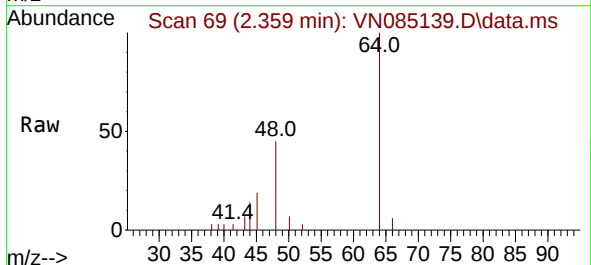
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

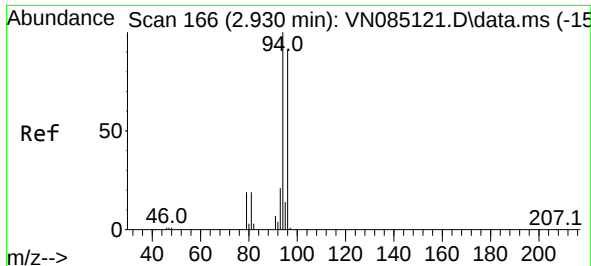
Tgt Ion:128 Resp: 27788
Ion Ratio Lower Upper
128 100
49 163.5 0.0 394.5
130 127.4 0.0 316.5



#3
Chloromethane
Concen: 0.388 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

Tgt Ion: 50 Resp: 764
Ion Ratio Lower Upper
50 100
52 43.8 25.0 37.4#

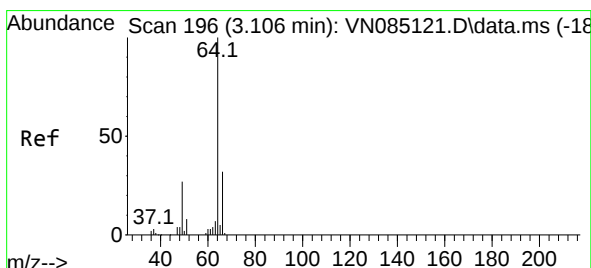
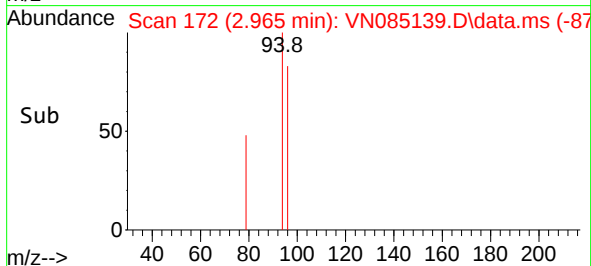
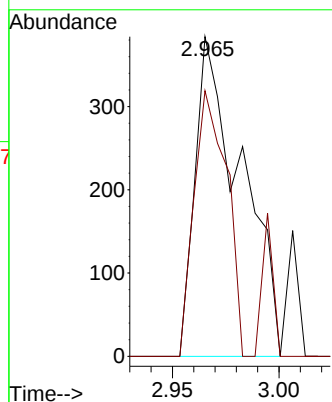
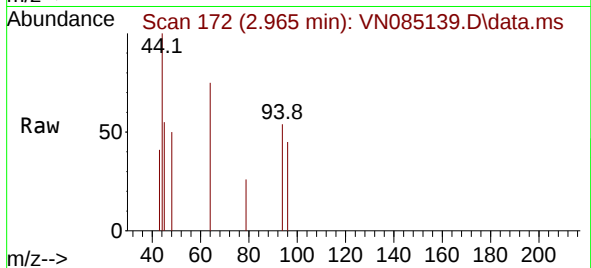




#5
Bromomethane
Concen: 0.454 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

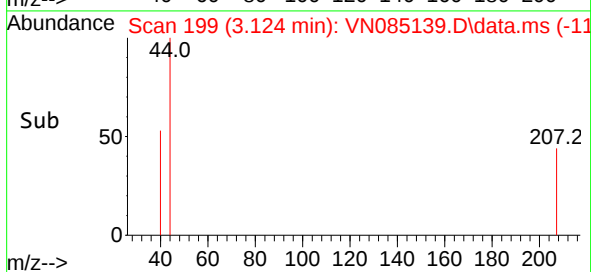
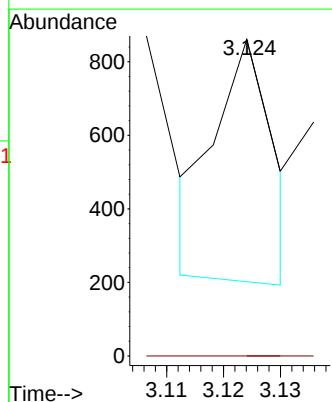
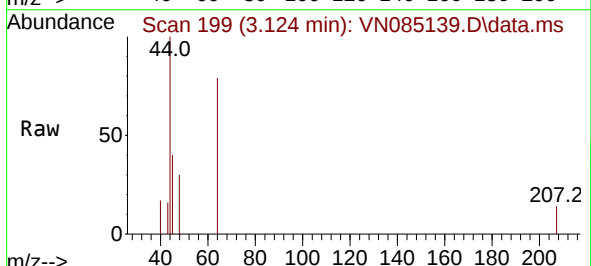
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

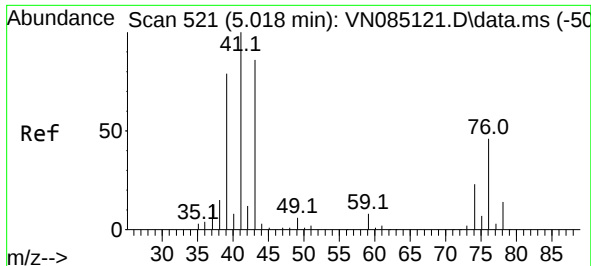
Tgt Ion: 94 Resp: 580
Ion Ratio Lower Upper
94 100
96 83.1 76.2 114.4



#6
Chloroethane
Concen: 0.376 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

Tgt Ion: 64 Resp: 465
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#

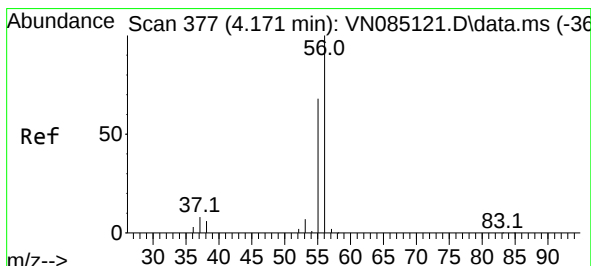
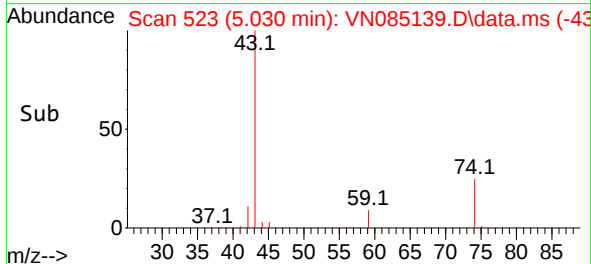
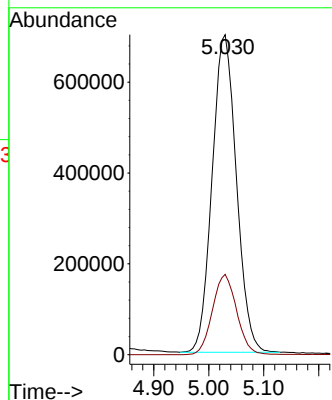
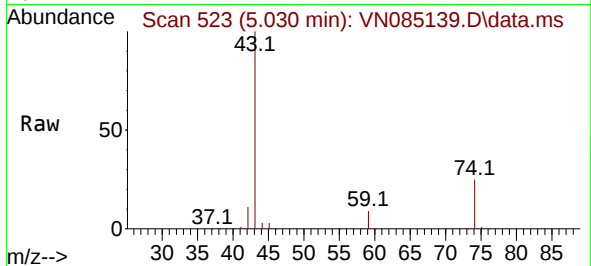




#12
Methyl Acetate
Concen: 1073.252 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

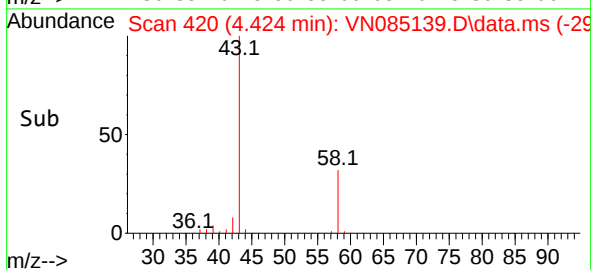
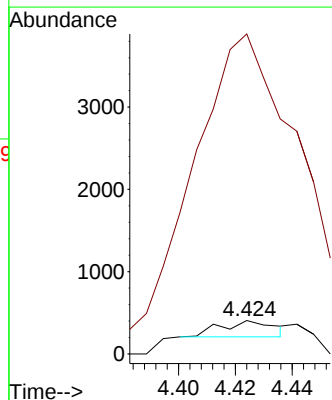
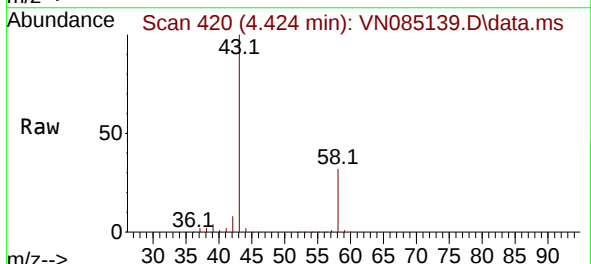
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

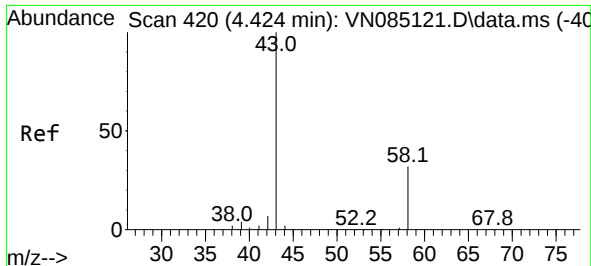
Tgt Ion: 43 Resp: 2142692
Ion Ratio Lower Upper
43 100
74 25.2 19.8 29.6



#13
Acrolein
Concen: 0.889 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.241 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

Tgt Ion: 56 Resp: 258
Ion Ratio Lower Upper
56 100
55 4240.7 59.4 89.0#





#15

Acetone

Concen: 5164.239 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN085139.D

Acq: 06 Dec 2024 20:03

Instrument :

MSVOA_N

ClientSampleId :

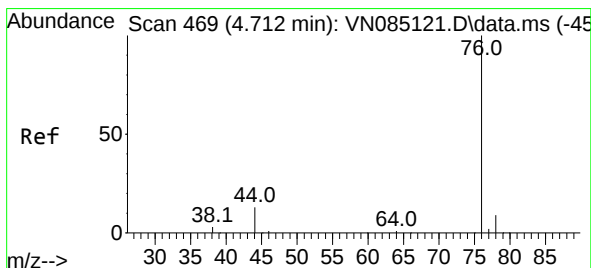
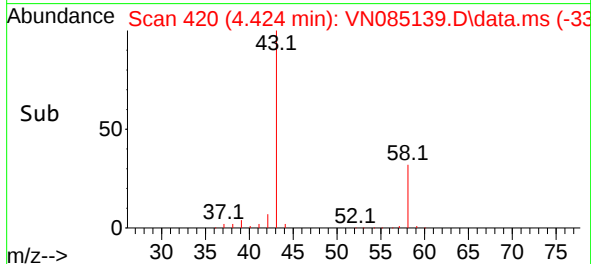
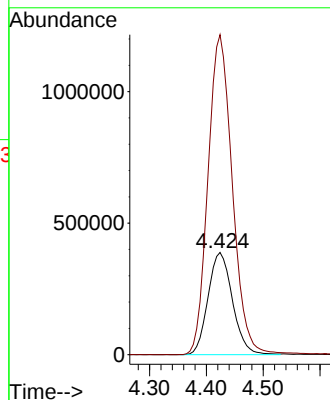
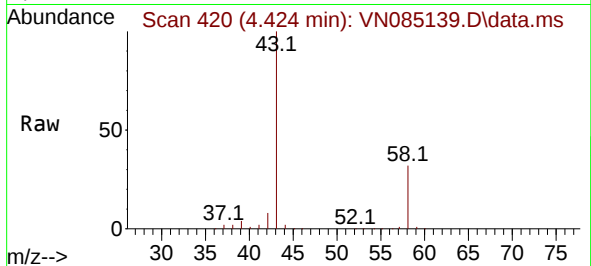
EFF-WASTE WATER

Tgt Ion: 58 Resp: 1160124

Ion Ratio Lower Upper

58 100

43 312.9 242.3 363.5



#16

Carbon Disulfide

Concen: 0.384 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085139.D

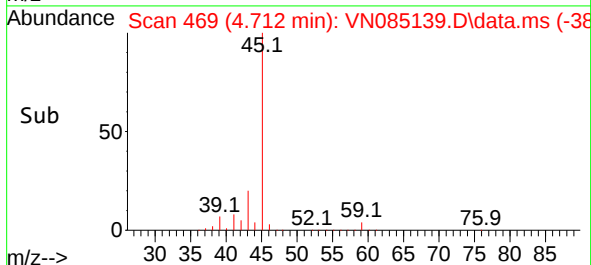
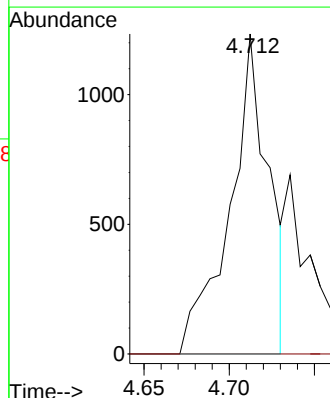
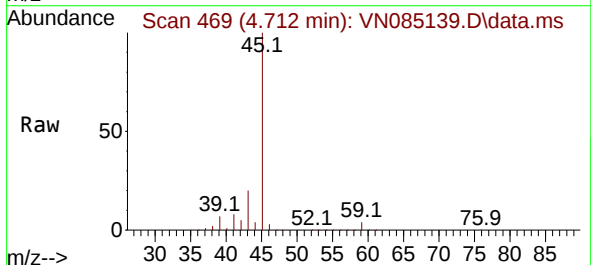
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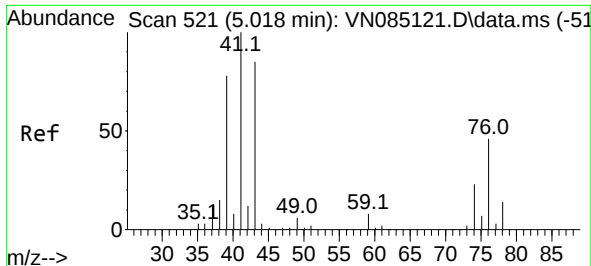
Tgt Ion: 76 Resp: 1941

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#





#17

Allyl chloride

Concen: 13.330 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN085139.D

Acq: 06 Dec 2024 20:03

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE WATER

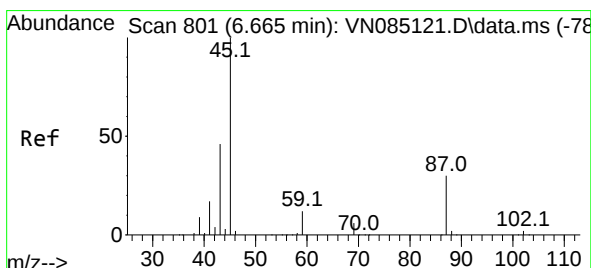
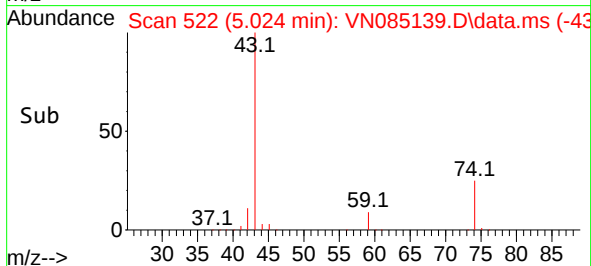
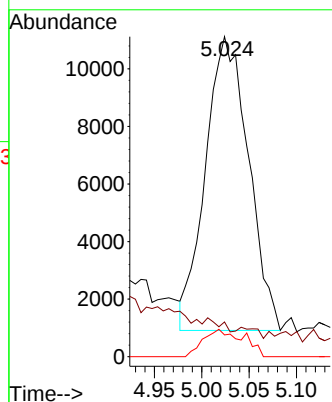
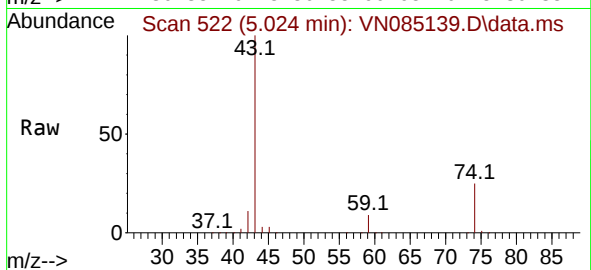
Tgt Ion: 41 Resp: 32278

Ion Ratio Lower Upper

41 100

39 3.8 32.0 96.2#

76 7.4 20.2 60.5#



#20

Diisopropyl ether

Concen: 2.277 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.006 min

Lab File: VN085139.D

Acq: 06 Dec 2024 20:03

Tgt Ion: 45 Resp: 12101

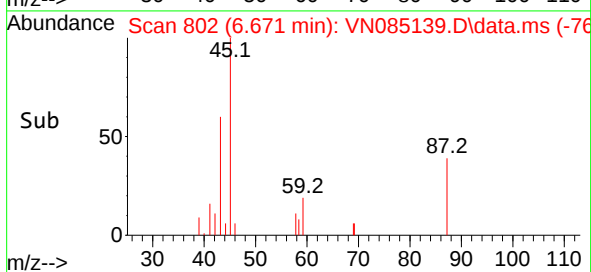
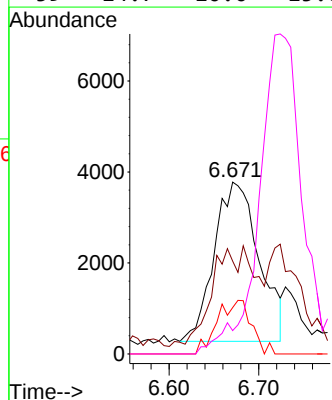
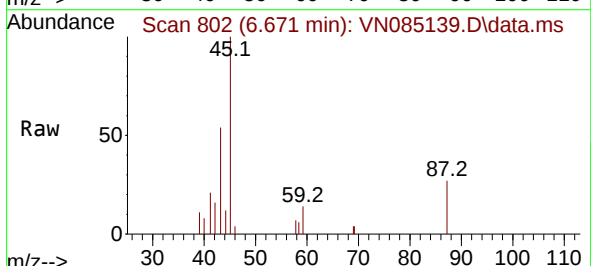
Ion Ratio Lower Upper

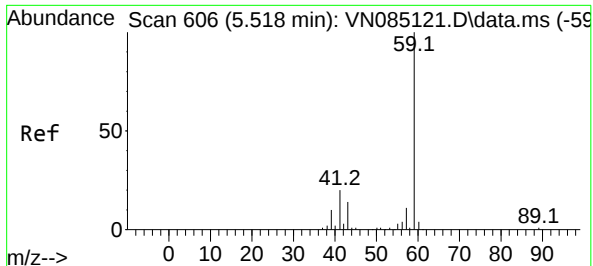
45 100

43 51.0 41.9 62.9

87 29.1 24.1 36.1

59 14.7 10.0 15.0





#23

tert-Butyl Alcohol

Concen: 2.509 ug/l

RT: 5.512 min Scan# 606

Delta R.T. 0.000 min

Lab File: VN085139.D

Acq: 06 Dec 2024 20:03

Instrument :

MSVOA_N

ClientSampleId :

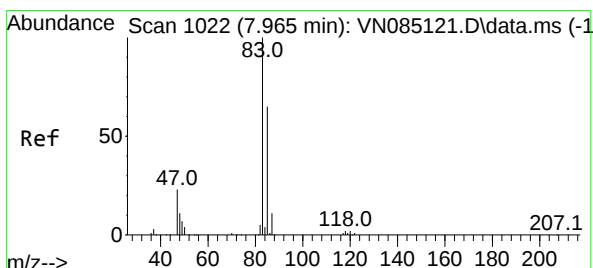
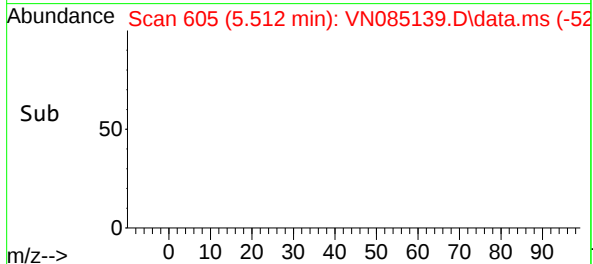
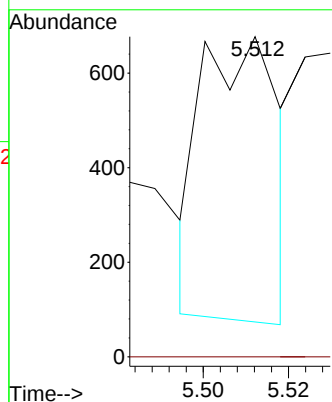
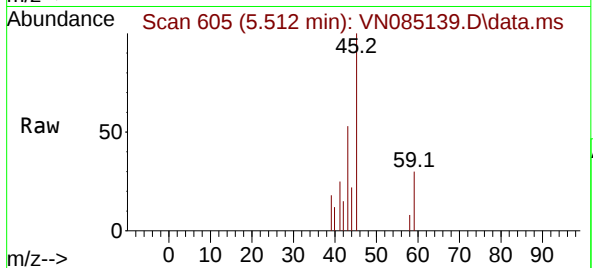
EFF-WASTE WATER

Tgt Ion: 59 Resp: 746

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#25

Chloroform

Concen: 2.936 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085139.D

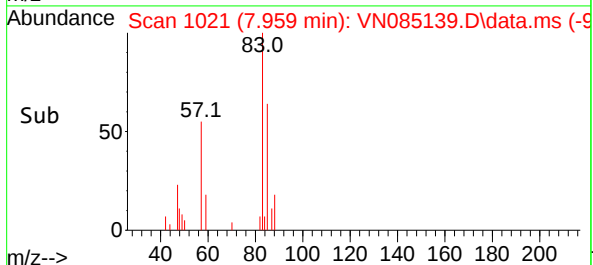
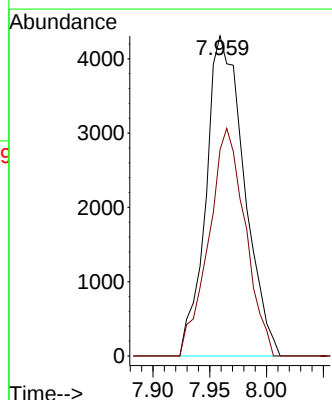
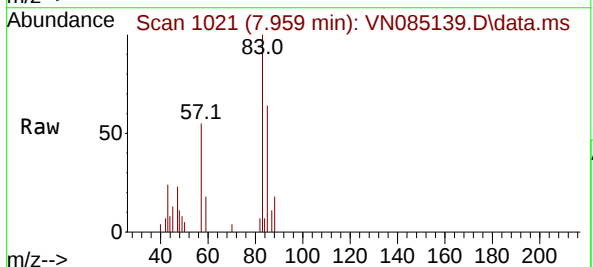
Acq: 06 Dec 2024 20:03

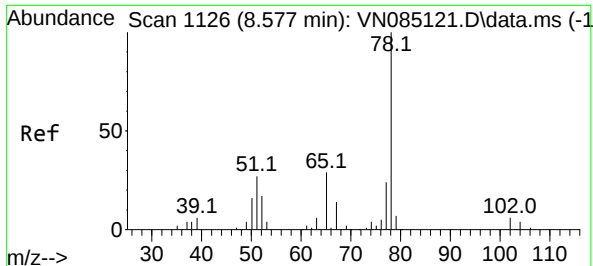
Tgt Ion: 83 Resp: 10088

Ion Ratio Lower Upper

83 100

85 64.5 49.4 74.0





#27

1,2-Dichloroethane-d4

Concen: 31.945 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN085139.D

Acq: 06 Dec 2024 20:03

Instrument :

MSVOA_N

ClientSampleId :

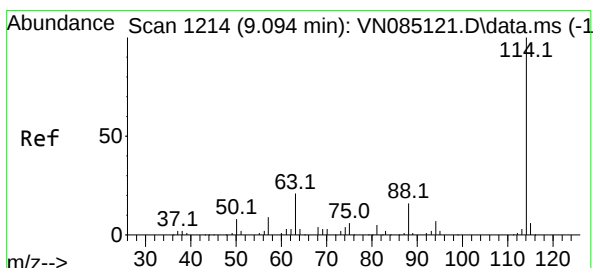
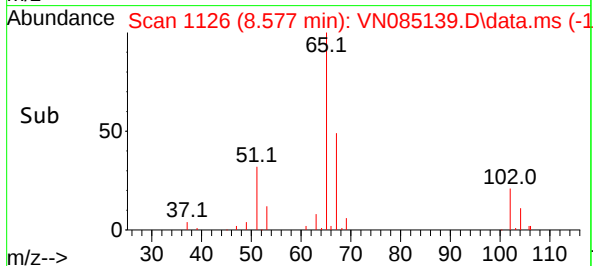
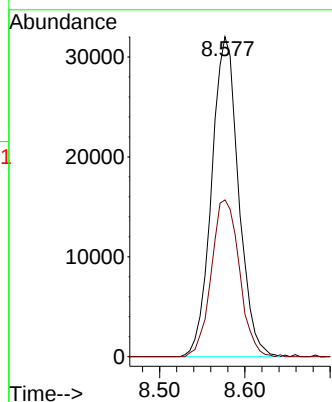
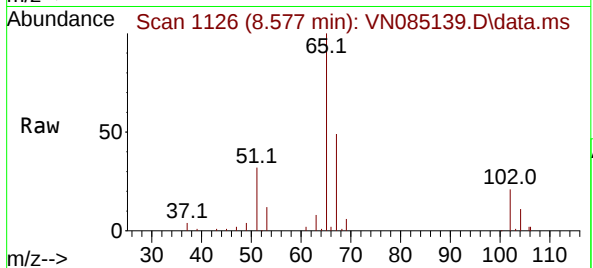
EFF-WASTE WATER

Tgt Ion: 65 Resp: 70436

Ion Ratio Lower Upper

65 100

67 51.0 39.9 59.9



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN085139.D

Acq: 06 Dec 2024 20:03

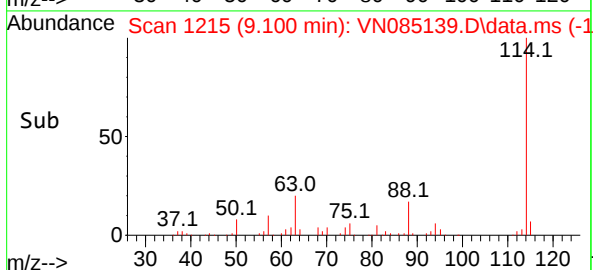
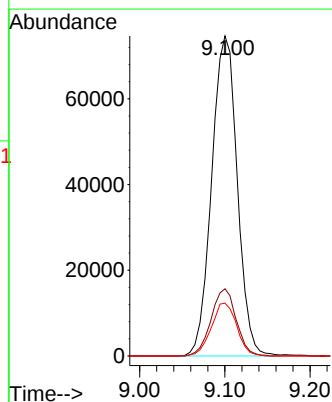
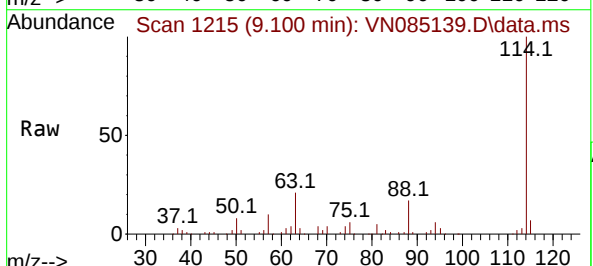
Tgt Ion: 114 Resp: 156041

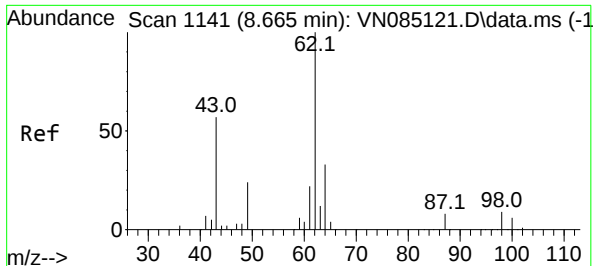
Ion Ratio Lower Upper

114 100

63 20.6 16.2 24.2

88 16.4 12.5 18.7





#36

1,2-Dichloroethane

Concen: 11.008 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.024 min

Lab File: VN085139.D

Acq: 06 Dec 2024 20:03

Instrument :

MSVOA_N

ClientSampleId :

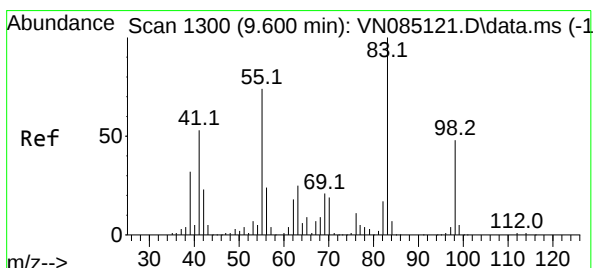
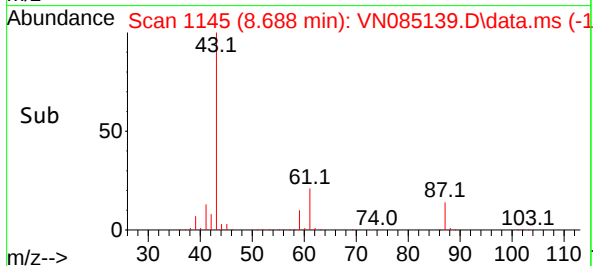
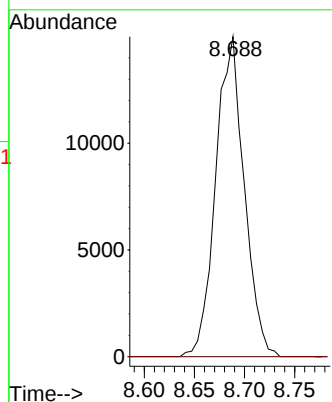
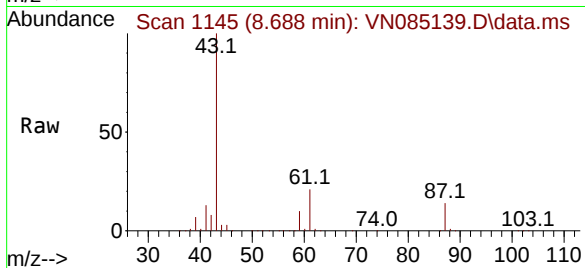
EFF-WASTE WATER

Tgt Ion: 62 Resp: 29641

Ion Ratio Lower Upper

62 100

98 0.0 7.3 10.9#



#38

Methylcyclohexane

Concen: 0.421 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.288 min

Lab File: VN085139.D

Acq: 06 Dec 2024 20:03

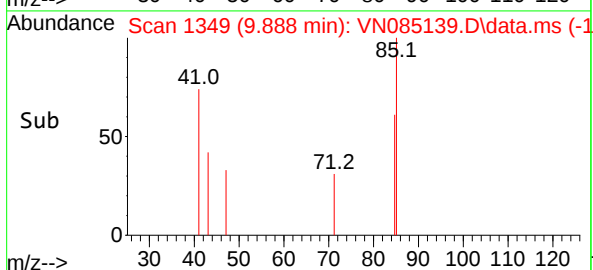
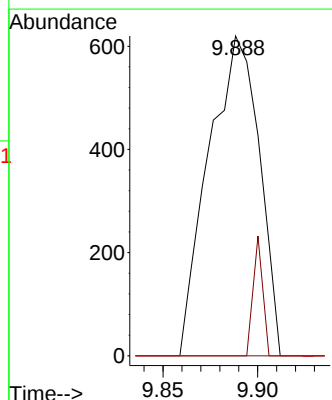
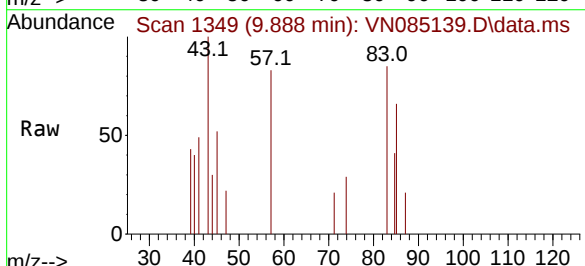
Tgt Ion: 83 Resp: 1153

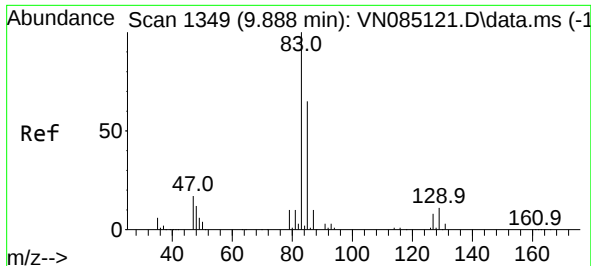
Ion Ratio Lower Upper

83 100

55 5.3 41.4 124.4#

98 0.0 25.7 77.1#

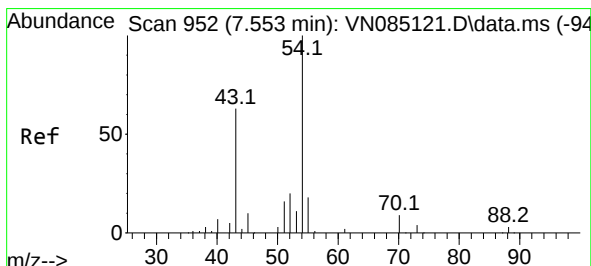
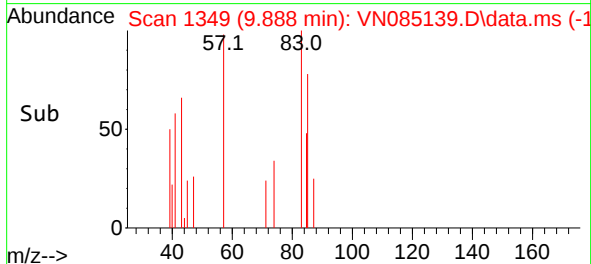
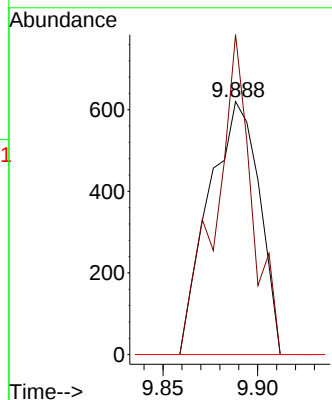
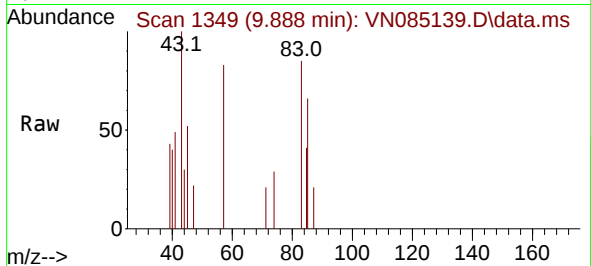




#41
Bromodichloromethane
Concen: 0.392 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

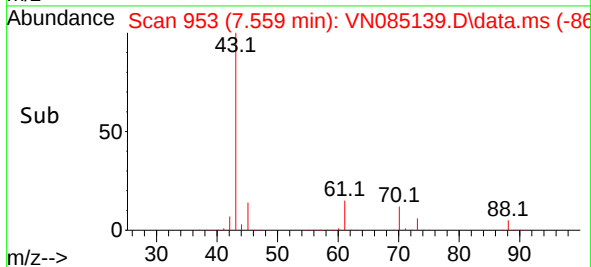
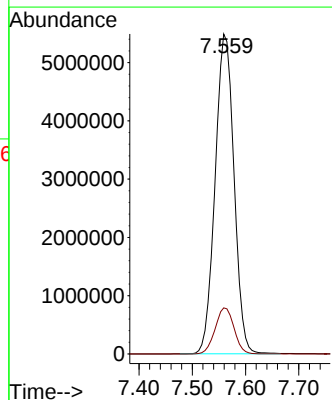
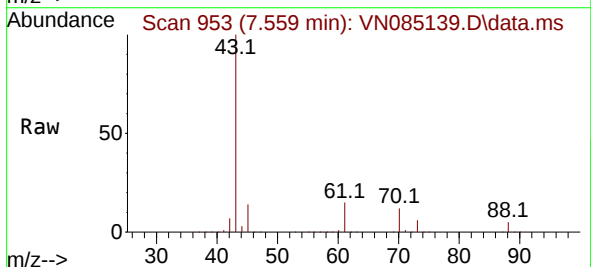
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

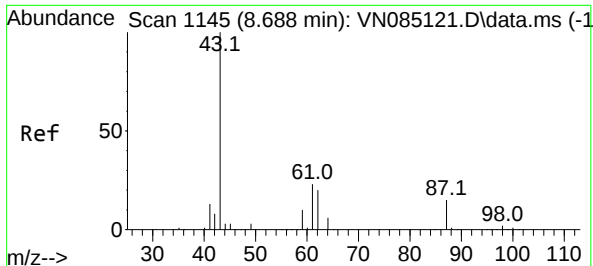
Tgt Ion: 83 Resp: 1153
Ion Ratio Lower Upper
83 100
85 126.5 54.6 81.8#
127 0.0 7.0 10.6#



#43
Ethyl Acetate
Concen: 5870.060 ug/l
RT: 7.559 min Scan# 953
Delta R.T. 0.000 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

Tgt Ion: 43 Resp:13495642
Ion Ratio Lower Upper
43 100
45 14.4 13.3 19.9

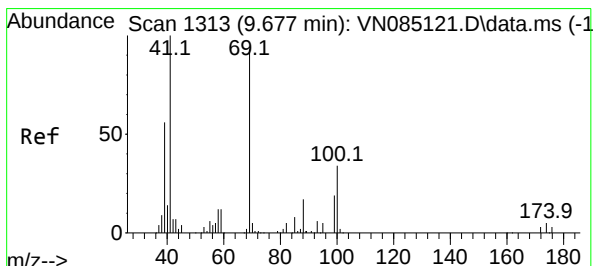
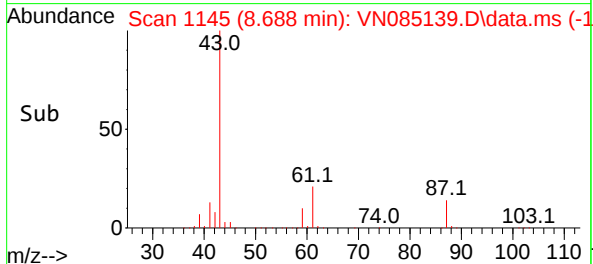
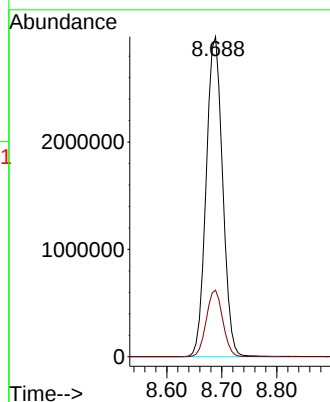
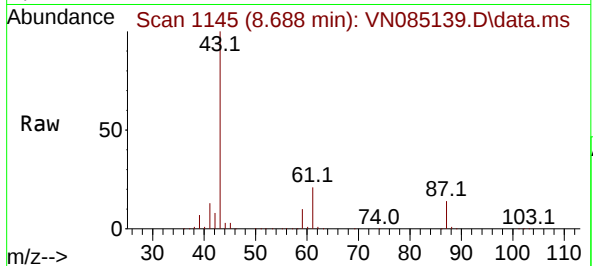




#44
Isopropyl Acetate
Concen: 1550.908 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

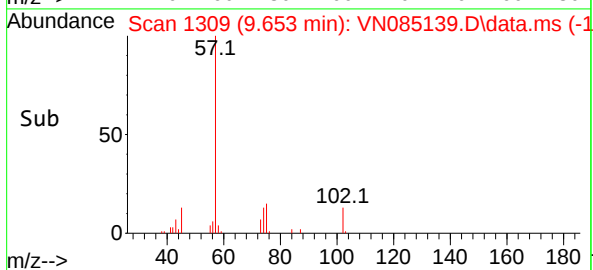
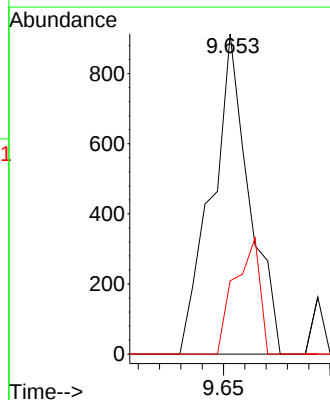
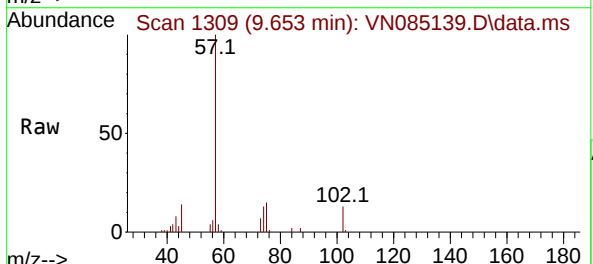
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

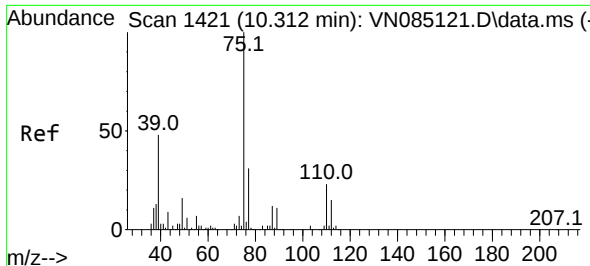
Tgt Ion: 43 Resp: 6196413
Ion Ratio Lower Upper
43 100
61 20.8 21.5 32.3#



#46
Methyl methacrylate
Concen: 0.609 ug/l
RT: 9.653 min Scan# 1309
Delta R.T. -0.029 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

Tgt Ion: 41 Resp: 1114
Ion Ratio Lower Upper
41 100
69 0.0 46.7 140.0#
39 22.9 28.5 85.5#

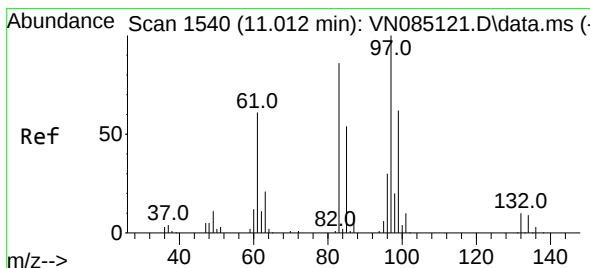
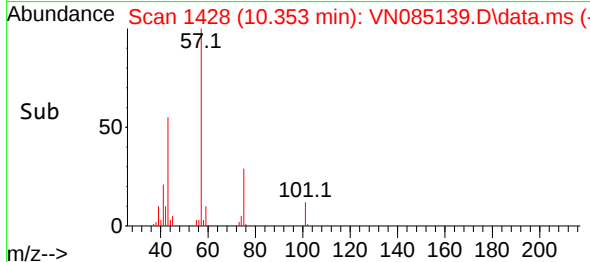
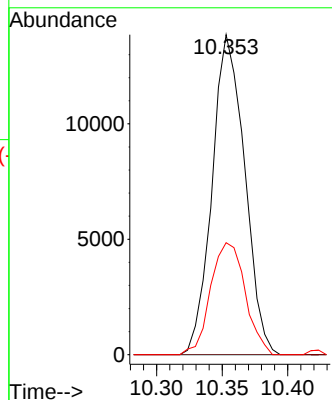
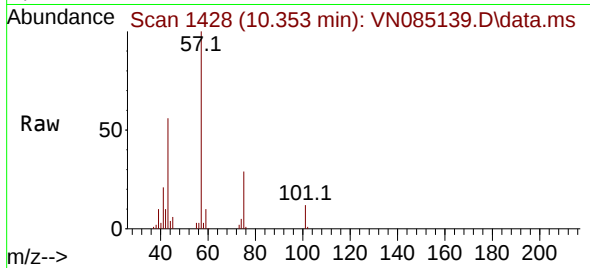




#49
 cis-1,3-Dichloropropene
 Concen: 7.625 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN085139.D
 Acq: 06 Dec 2024 20:03

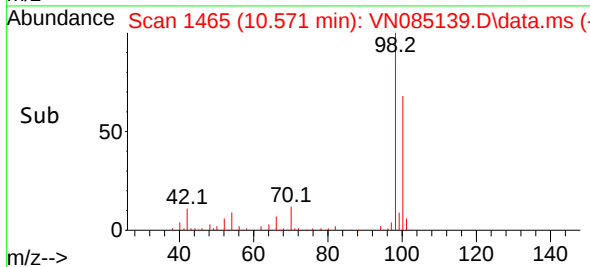
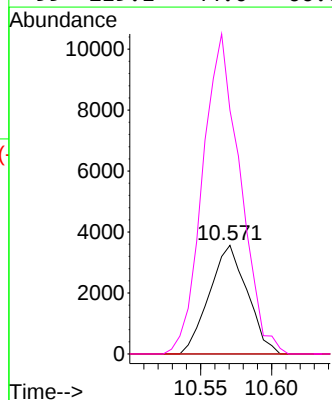
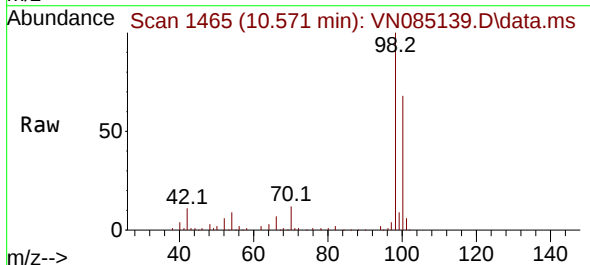
Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WASTE WATER

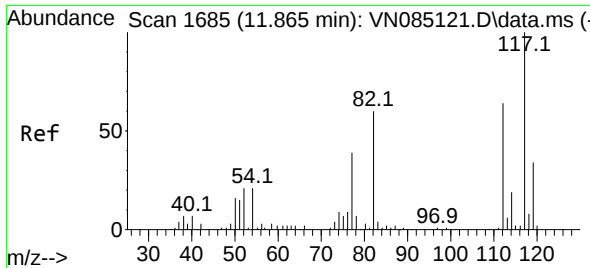
Tgt Ion: 75 Resp: 23940
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.8 35.6#
 39 35.0 37.3 55.9#



#50
 1,1,2-Trichloroethane
 Concen: 3.581 ug/l
 RT: 10.571 min Scan# 1465
 Delta R.T. -0.441 min
 Lab File: VN085139.D
 Acq: 06 Dec 2024 20:03

Tgt Ion: 97 Resp: 6631
 Ion Ratio Lower Upper
 97 100
 83 0.0 65.8 98.8#
 85 0.0 40.8 61.2#
 99 219.1 44.0 66.0#

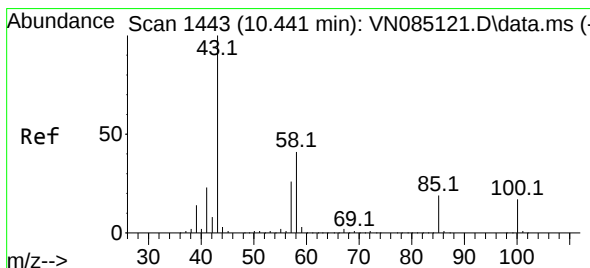
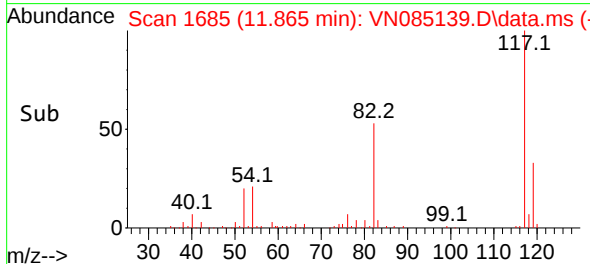
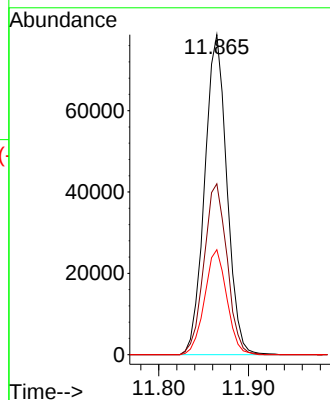
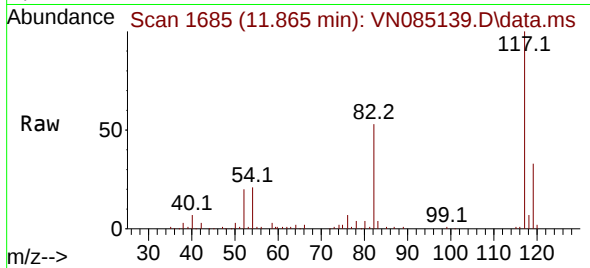




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

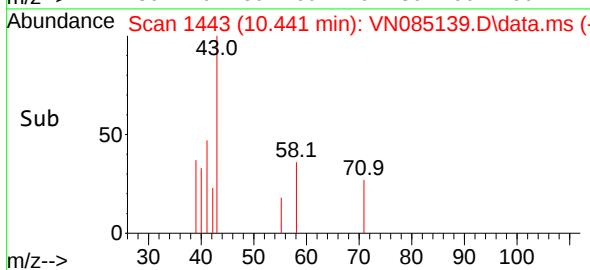
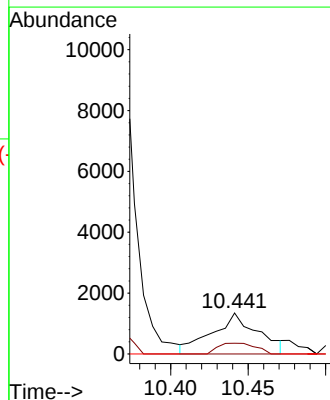
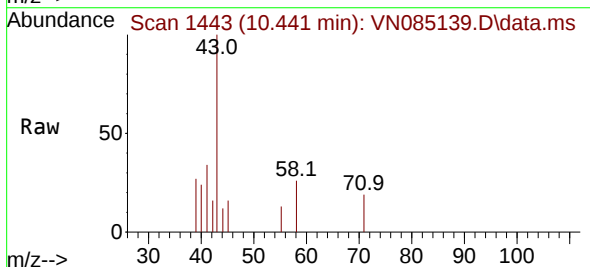
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

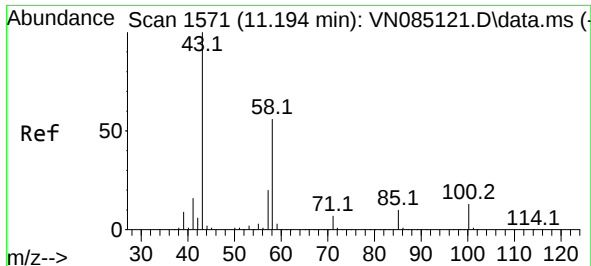
Tgt Ion:117 Resp: 135206
Ion Ratio Lower Upper
117 100
82 55.4 44.2 66.4
119 32.8 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 1.235 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

Tgt Ion: 43 Resp: 2725
Ion Ratio Lower Upper
43 100
58 21.8 31.6 47.4#
85 0.0 15.0 22.6#

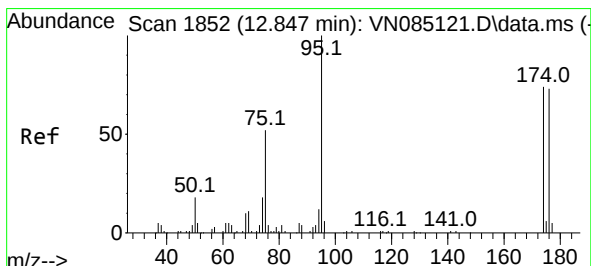
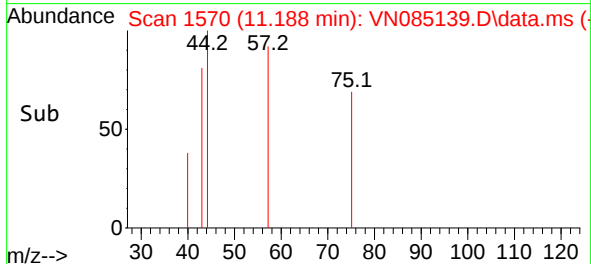
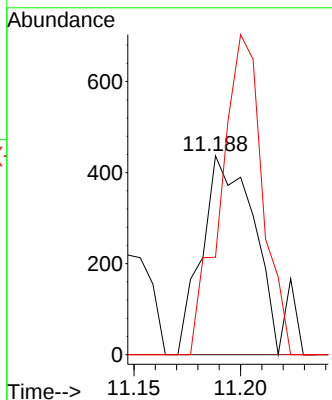
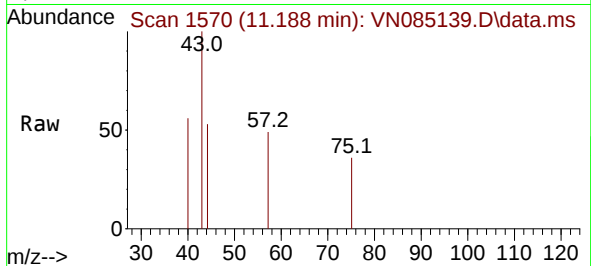




#59
2-Hexanone
Concen: 0.438 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.006 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

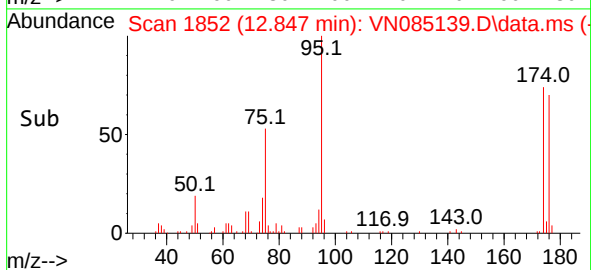
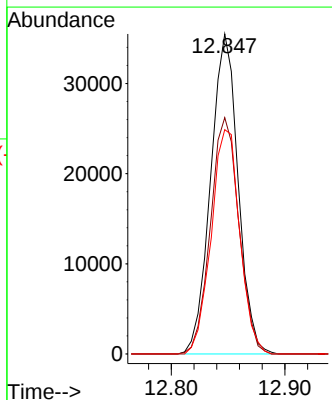
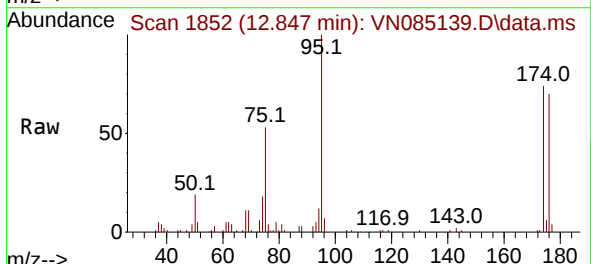
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MSVOA_N
ClientSampleId :
EFF-WASTE WATER

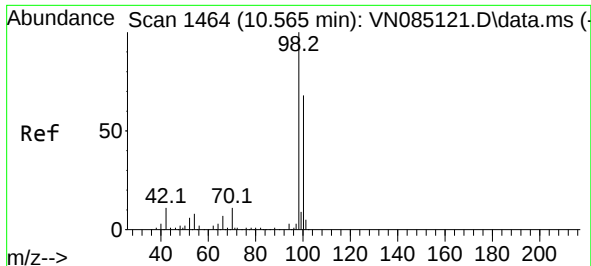
Tgt Ion: 43 Resp: 732
Ion Ratio Lower Upper
43 100
58 0.0 43.6 65.4#
57 131.0 15.4 23.0#



#60
4-Bromofluorobenzene
Concen: 26.662 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

Tgt Ion: 95 Resp: 59647
Ion Ratio Lower Upper
95 100
174 76.3 60.3 90.5
176 72.8 57.4 86.0

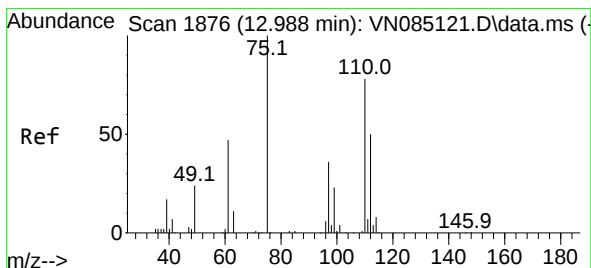
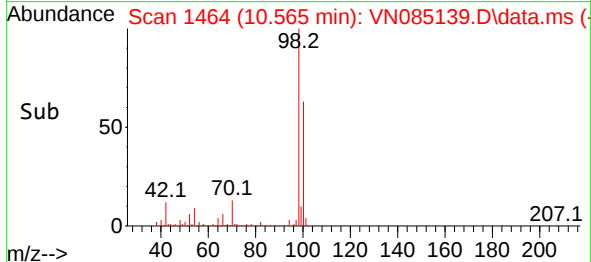
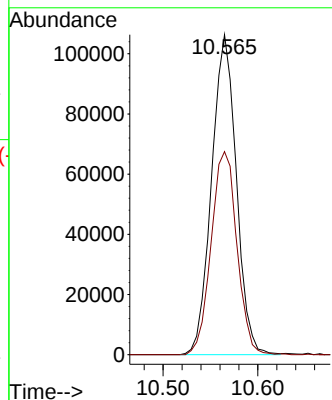
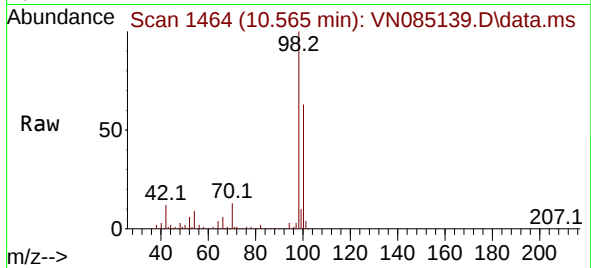




#63
Toluene-d8
Concen: 30.409 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

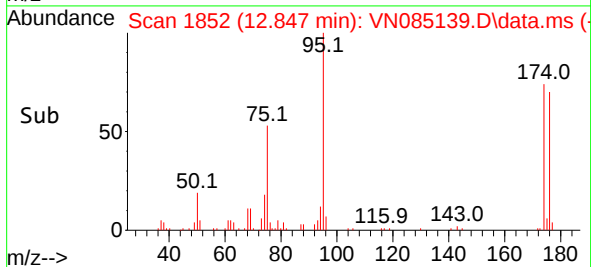
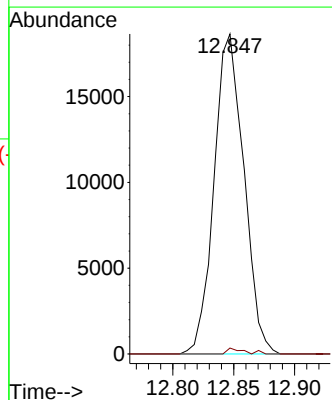
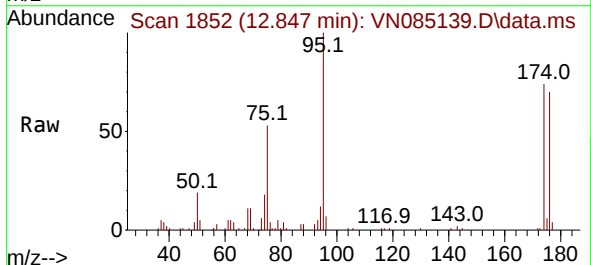
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

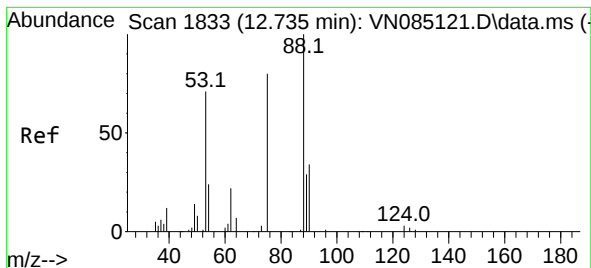
Tgt Ion: 98 Resp: 192865
Ion Ratio Lower Upper
98 100
100 66.0 52.0 78.0



#72
1,2,3-Trichloropropane
Concen: 13.553 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

Tgt Ion: 75 Resp: 31765
Ion Ratio Lower Upper
75 100
77 0.8 0.0 339.0

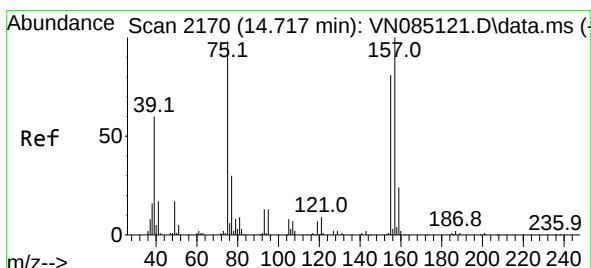
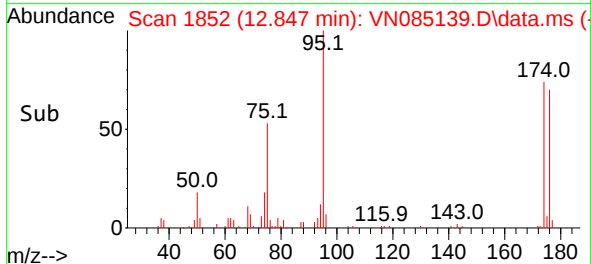
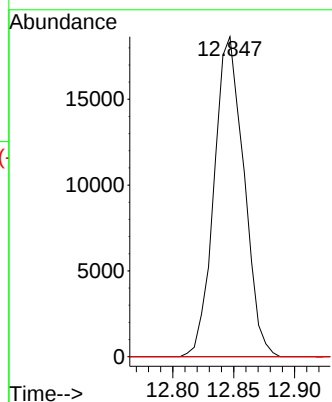
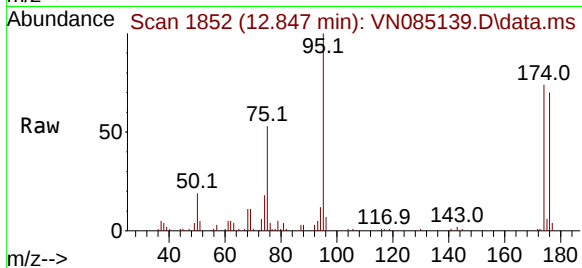




#77
t-1,4-Dichloro-2-butene
Concen: 37.297 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

Tgt Ion: 75 Resp: 31765
Ion Ratio Lower Upper
75 100
53 0.0 49.1 147.3#
89 0.0 22.9 68.5#



#88
1,2-Dibromo-3-Chloropropane
Concen: 2.844 ug/l
RT: 14.529 min Scan# 2138
Delta R.T. -0.188 min
Lab File: VN085139.D
Acq: 06 Dec 2024 20:03

Tgt Ion: 75 Resp: 1348
Ion Ratio Lower Upper
75 100
155 0.0 62.1 93.1#
157 0.0 79.3 118.9#

