

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086385.D
 Acq On : 23 Apr 2025 16:24
 Operator : JC\MD
 Sample : Q1833-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WASTE-WATER

Quant Time: Apr 24 05:01:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

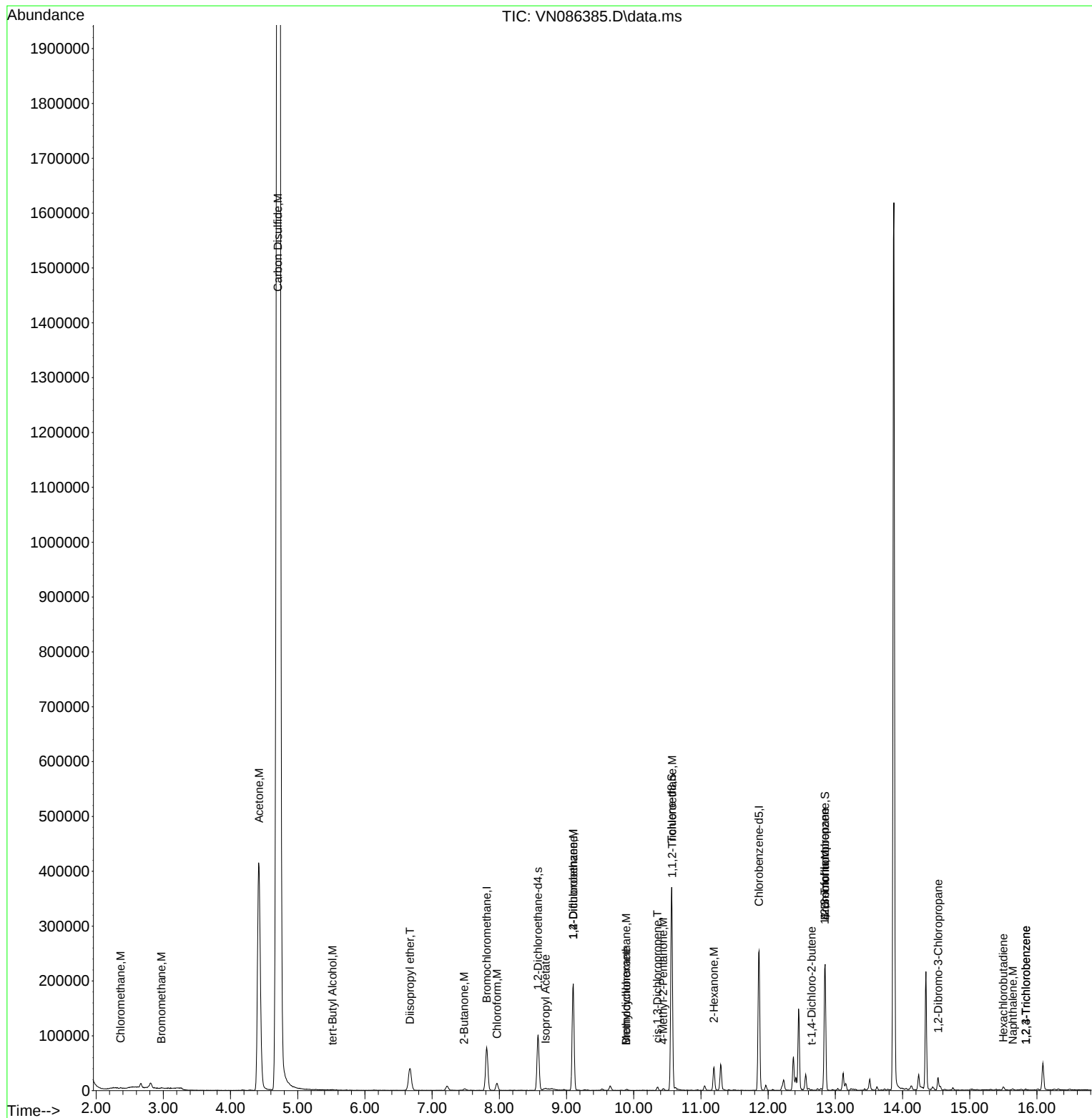
Internal Standards						
1) Bromochloromethane	7.812	128	27985	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	171526	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	153120	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83028	30.773	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.567%	
60) 4-Bromofluorobenzene	12.847	95	85059	28.264	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 94.200%	
63) Toluene-d8	10.565	98	256697	30.473	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.567%	
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1046	0.381	ug/l	96
5) Bromomethane	2.971	94	439	0.320	ug/l #	72
13) Acrolein	4.183	56	821	Below Cal	#	70
15) Acetone	4.424	58	247844	873.327	ug/l	95
16) Carbon Disulfide	4.706	76	1698	0.330	ug/l #	75
20) Diisopropyl ether	6.671	45	51372	6.921	ug/l	97
23) tert-Butyl Alcohol	5.518	59	166	0.416	ug/l #	100
25) Chloroform	7.965	83	12701	3.089	ug/l	96
30) 2-Butanone	7.477	43	4807	3.275	ug/l #	90
36) 1,2-Dichloroethane	9.100	62	5944	1.904	ug/l #	74
38) Methylcyclohexane	9.888	83	1198	0.343	ug/l #	19
41) Bromodichloromethane	9.888	83	1198	0.356	ug/l #	92
44) Isopropyl Acetate	8.688	43	5649	1.025	ug/l #	53
49) cis-1,3-Dichloropropene	10.353	75	1192	0.301	ug/l #	33
50) 1,1,2-Trichloroethane	10.571	97	7778	3.505	ug/l #	1
56) Bromoform	12.847	173	556	0.344	ug/l #	1
58) 4-Methyl-2-Pentanone	10.435	43	2569	0.867	ug/l #	80
59) 2-Hexanone	11.194	43	28516	13.059	ug/l	99
72) 1,2,3-Trichloropropane	12.841	75	44771	18.229	ug/l	1
77) t-1,4-Dichloro-2-butene	12.647	75	530	0.425	ug/l #	13
88) 1,2-Dibromo-3-Chloropr...	14.529	75	622	1.086	ug/l #	5
89) 1,2,4-Trichlorobenzene	15.835	180	570	0.283	ug/l #	42
90) Hexachlorobutadiene	15.500	225	483	0.595	ug/l #	28
91) Naphthalene	15.641	128	3299	0.457	ug/l #	77
92) 1,2,3-Trichlorobenzene	15.835	180	570	0.283	ug/l #	42

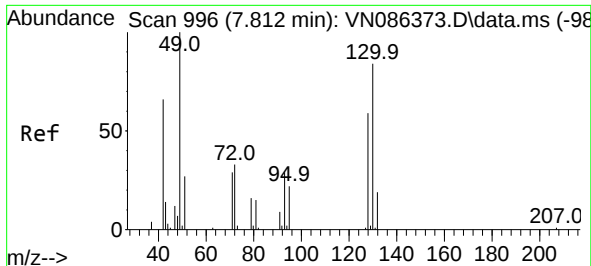
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
Data File : VN086385.D
Acq On : 23 Apr 2025 16:24
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Sample : Q1833-01 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

Quant Time: Apr 24 05:01:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 24 04:42:24 2025
Response via : Initial Calibration

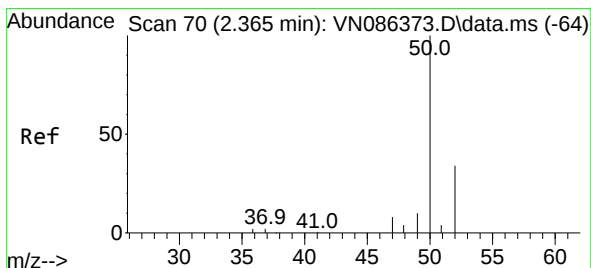
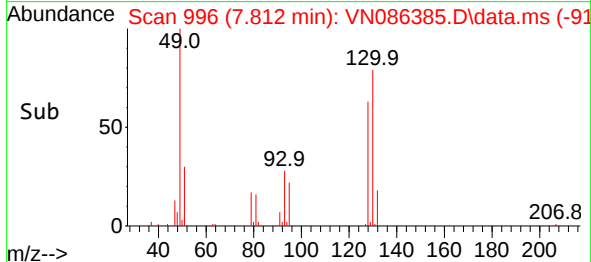
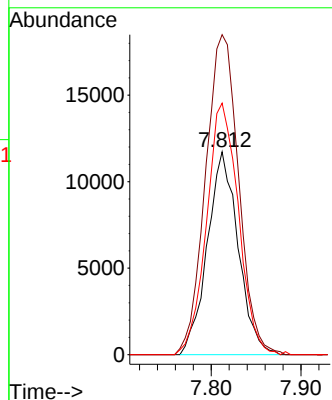
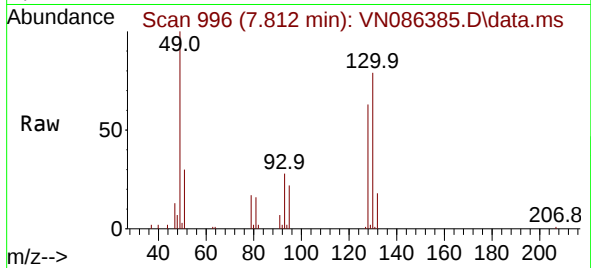




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

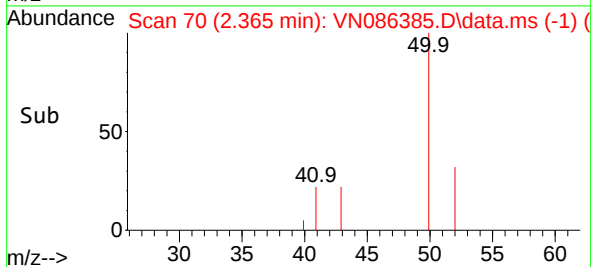
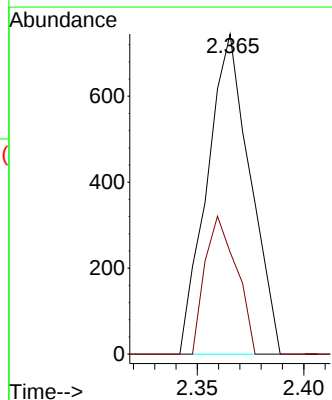
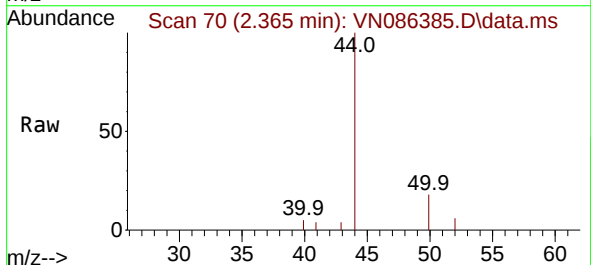
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

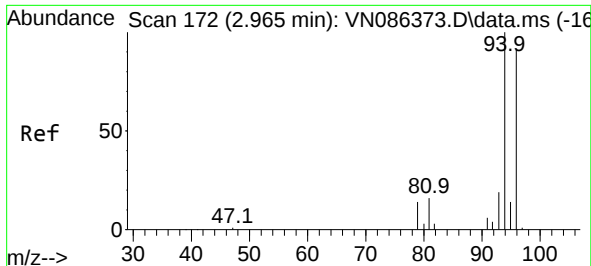
Tgt Ion:	128	Resp:	27985
Ion	Ratio	Lower	Upper
128	100		
49	169.5	0.0	433.8
130	128.2	0.0	325.0



#3
Chloromethane
Concen: 0.381 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion:	50	Resp:	1046
Ion	Ratio	Lower	Upper
50	100		
52	31.8	27.3	40.9

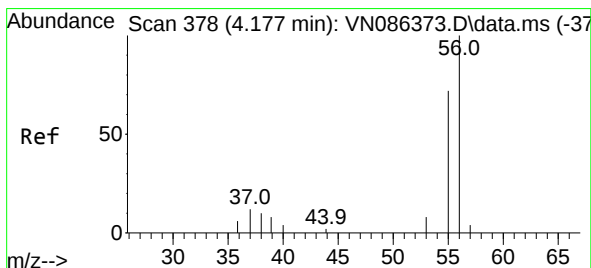
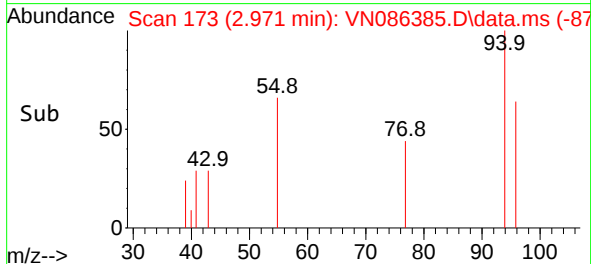
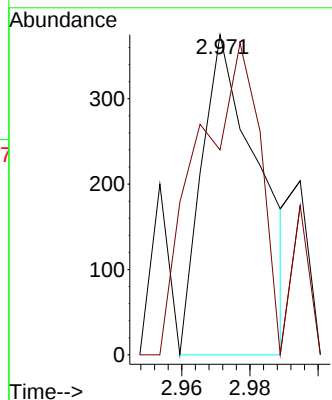
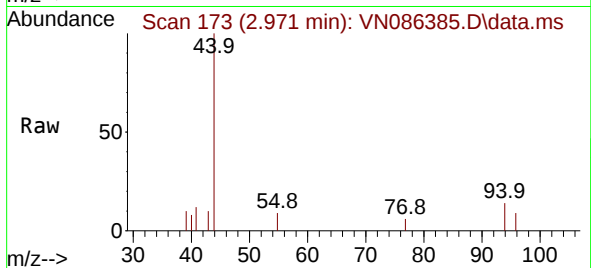




#5
Bromomethane
Concen: 0.320 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

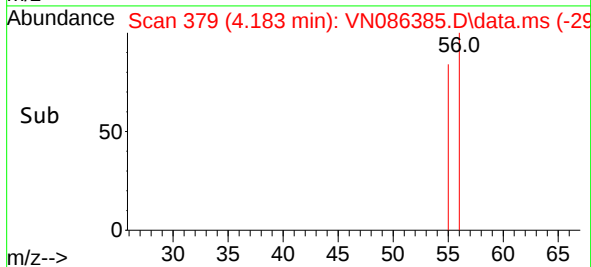
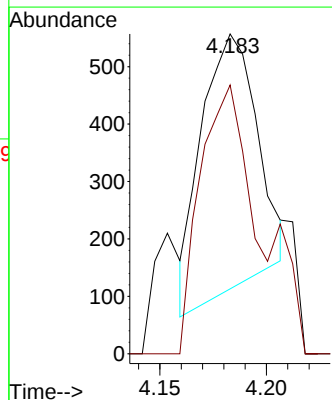
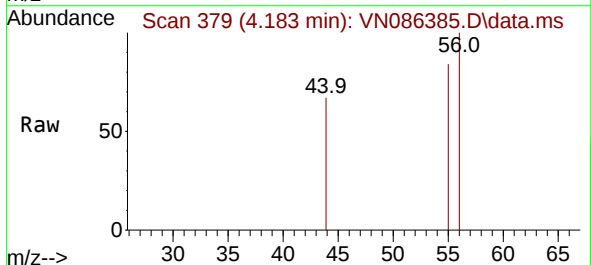
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

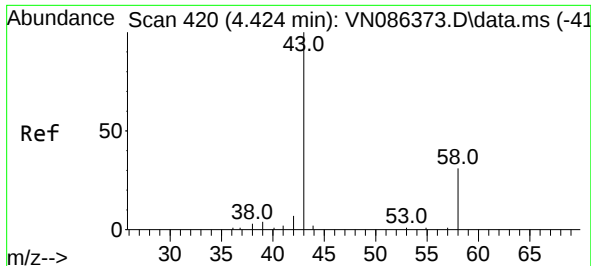
Tgt Ion: 94 Resp: 439
Ion Ratio Lower Upper
94 100
96 64.0 72.4 108.6#



#13
Acrolein
Concen: Below Cal
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion: 56 Resp: 821
Ion Ratio Lower Upper
56 100
55 94.5 56.1 84.1#





#15

Acetone

Concen: 873.327 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086385.D

Acq: 23 Apr 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

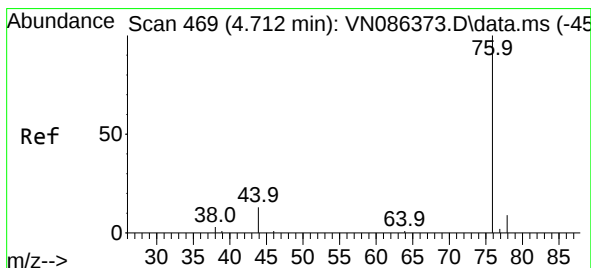
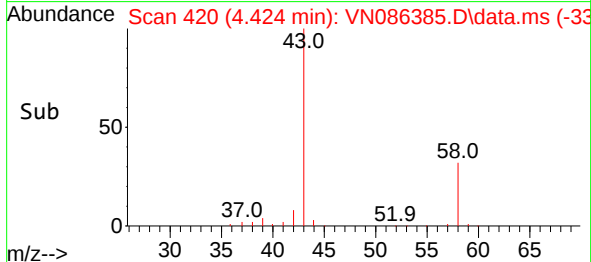
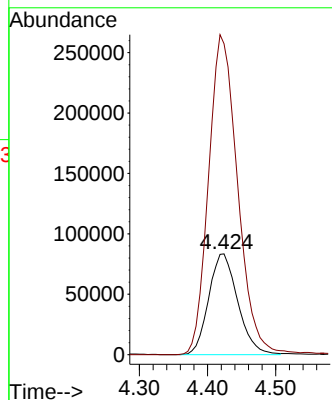
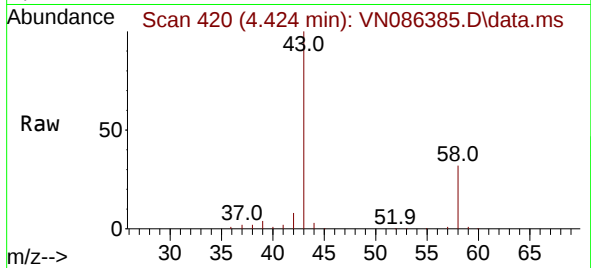
EFF-WASTE-WATER

Tgt Ion: 58 Resp: 247844

Ion Ratio Lower Upper

58 100

43 308.1 255.1 382.7



#16

Carbon Disulfide

Concen: 0.330 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.006 min

Lab File: VN086385.D

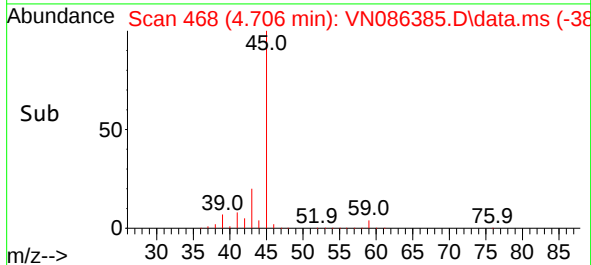
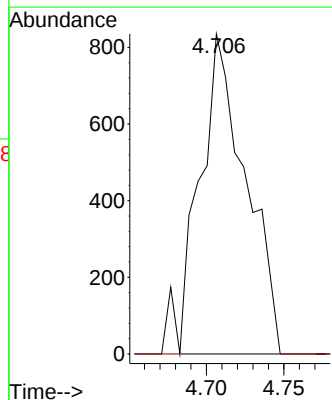
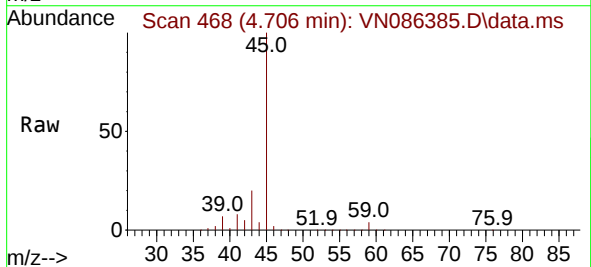
Acq: 23 Apr 2025 16:24

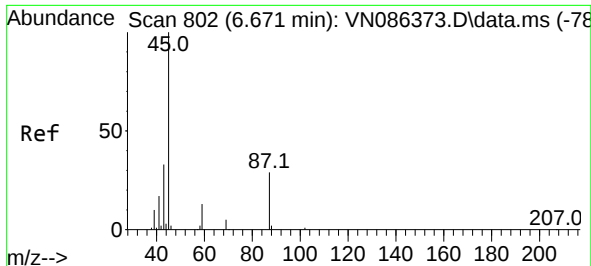
Tgt Ion: 76 Resp: 1698

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

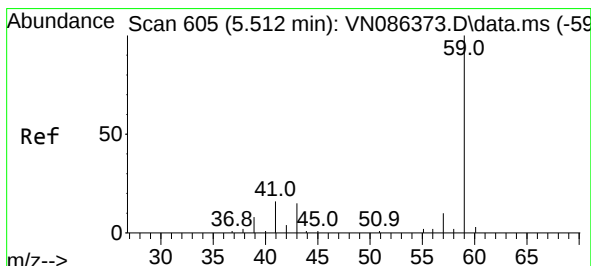
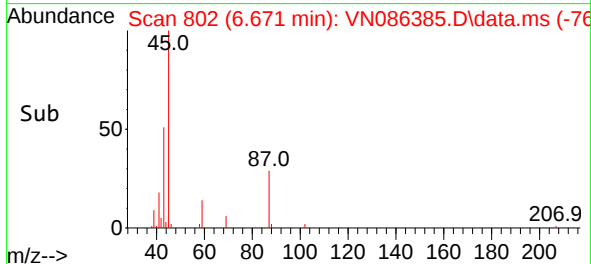
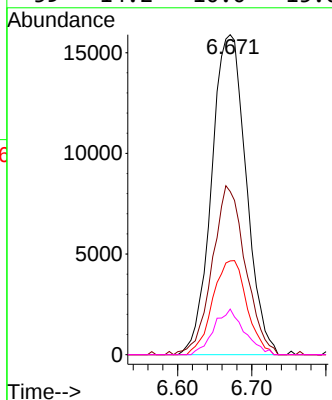
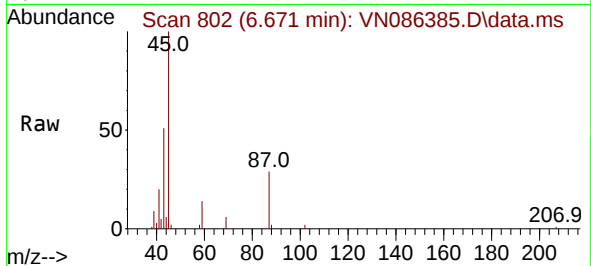




#20
Diisopropyl ether
Concen: 6.921 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

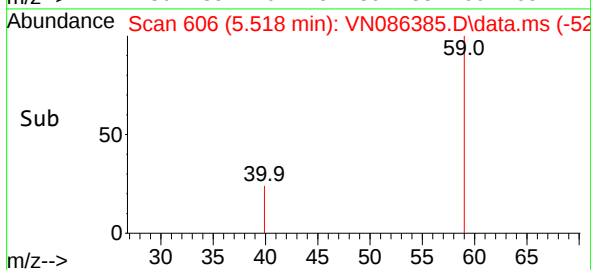
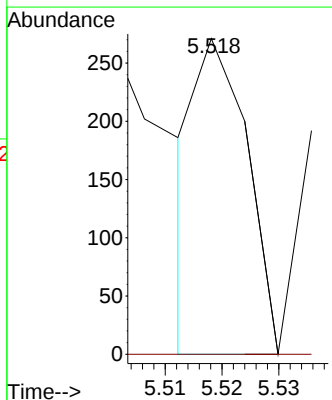
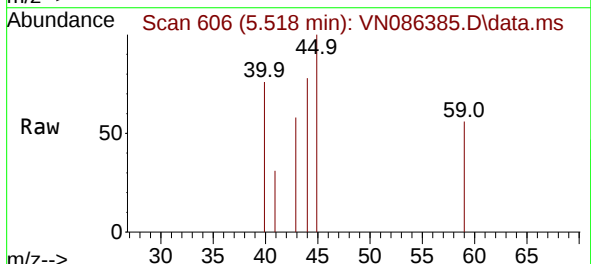
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

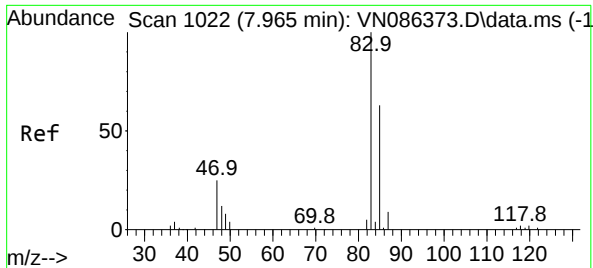
Tgt Ion:	45	Resp:	51372
Ion	Ratio	Lower	Upper
45	100		
43	51.0	38.8	58.2
87	29.3	23.5	35.3
59	14.2	10.0	15.0



#23
tert-Butyl Alcohol
Concen: 0.416 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion:	59	Resp:	166
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1#

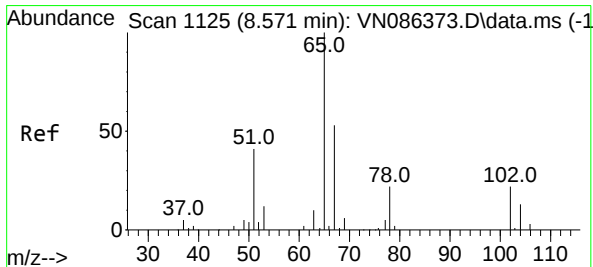
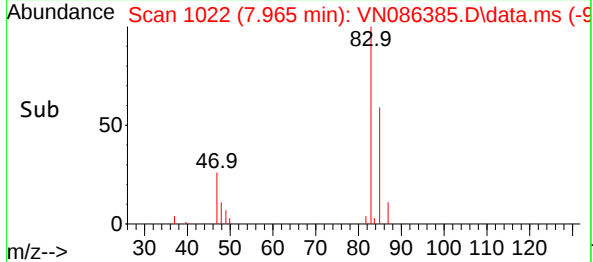
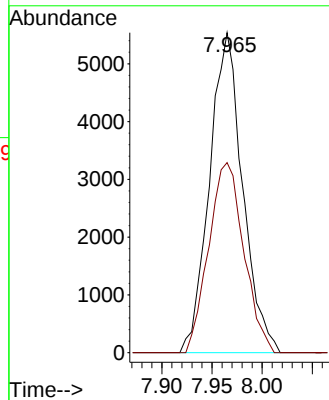
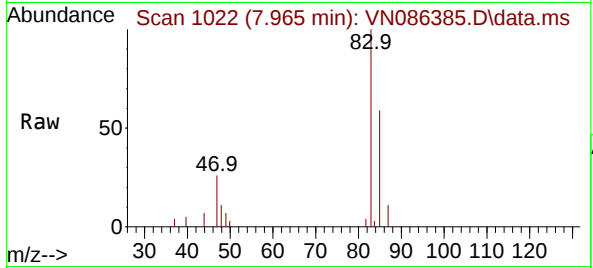




#25
Chloroform
Concen: 3.089 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

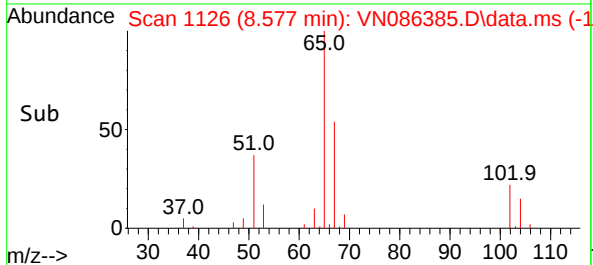
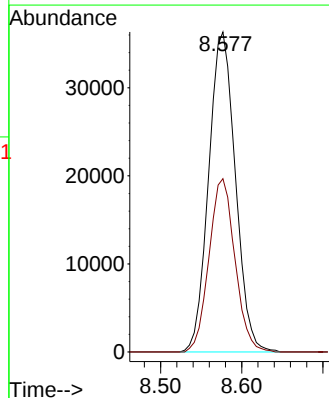
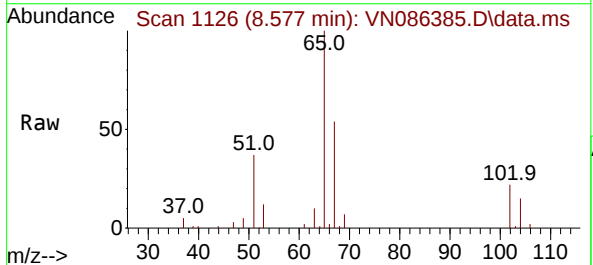
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

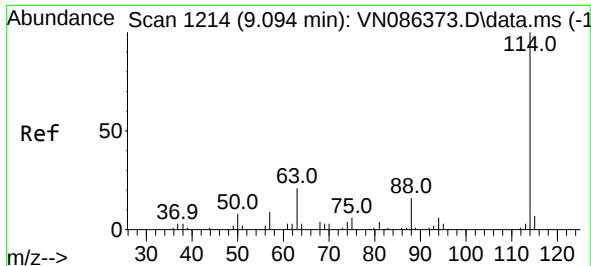
Tgt Ion: 83 Resp: 12701
Ion Ratio Lower Upper
83 100
85 59.4 50.2 75.2



#27
1,2-Dichloroethane-d4
Concen: 30.773 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion: 65 Resp: 83028
Ion Ratio Lower Upper
65 100
67 52.6 42.5 63.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086385.D

Acq: 23 Apr 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE-WATER

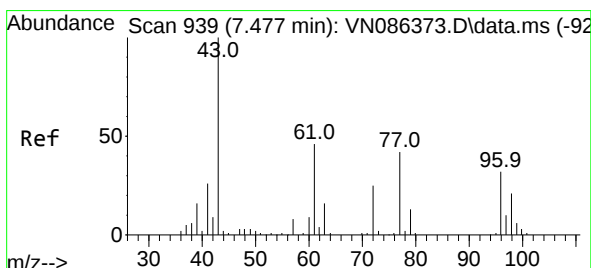
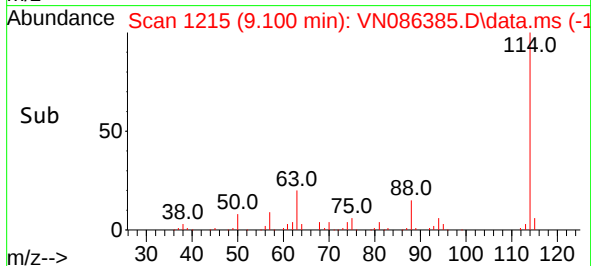
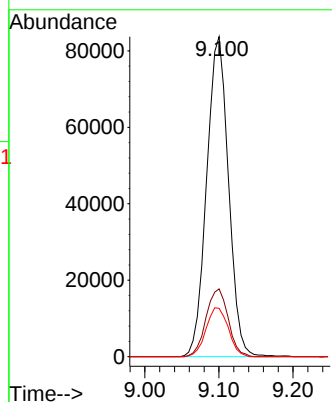
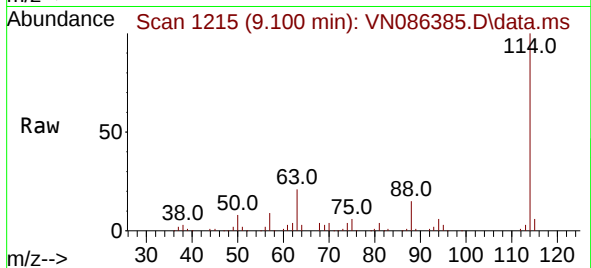
Tgt Ion:114 Resp: 171526

Ion Ratio Lower Upper

114 100

63 21.5 16.7 25.1

88 15.7 12.6 19.0



#30

2-Butanone

Concen: 3.275 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN086385.D

Acq: 23 Apr 2025 16:24

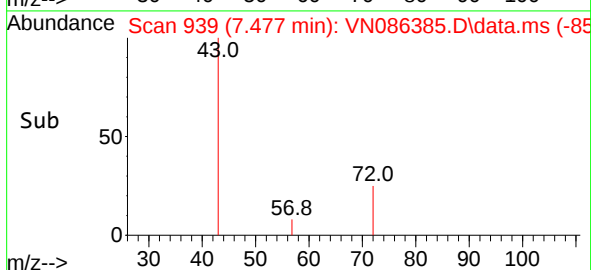
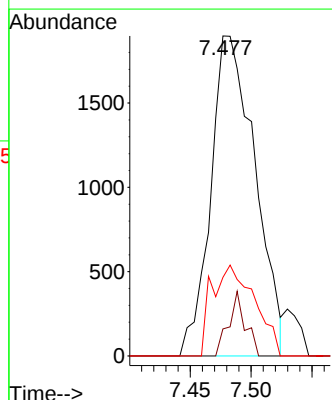
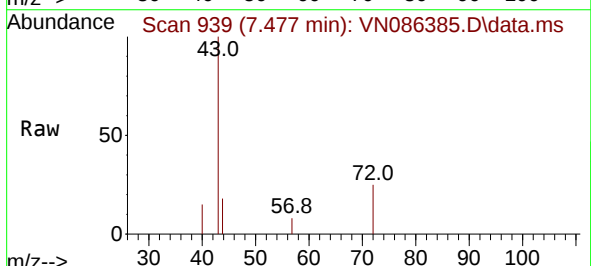
Tgt Ion: 43 Resp: 4807

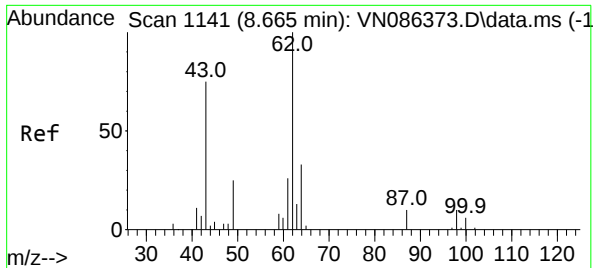
Ion Ratio Lower Upper

43 100

57 7.6 6.6 10.0

72 21.4 22.2 33.4#





#36

1,2-Dichloroethane

Concen: 1.904 ug/l

RT: 9.100 min Scan# 1141

Delta R.T. 0.435 min

Lab File: VN086385.D

Acq: 23 Apr 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

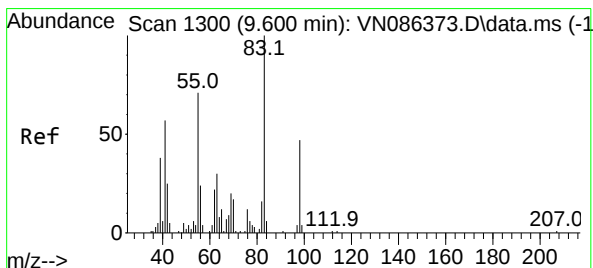
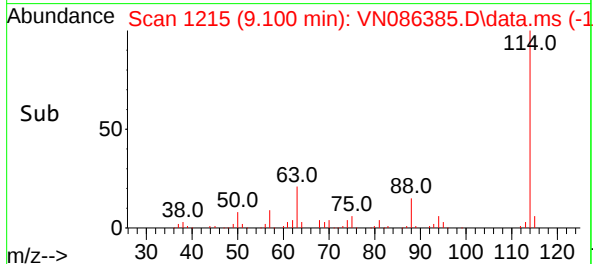
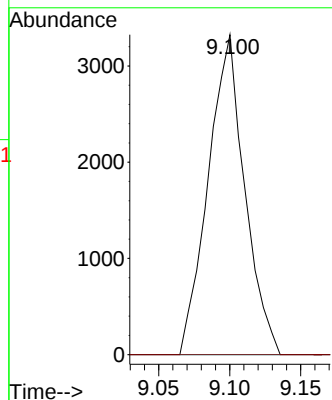
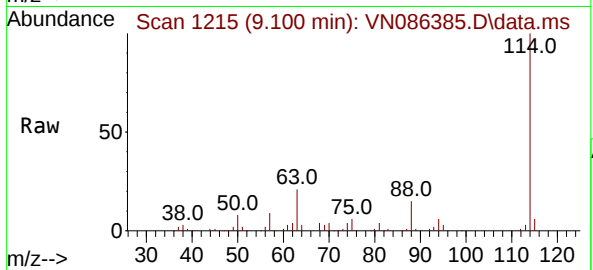
EFF-WASTE-WATER

Tgt Ion: 62 Resp: 5944

Ion Ratio Lower Upper

62 100

98 0.0 7.6 11.4#



#38

Methylcyclohexane

Concen: 0.343 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.288 min

Lab File: VN086385.D

Acq: 23 Apr 2025 16:24

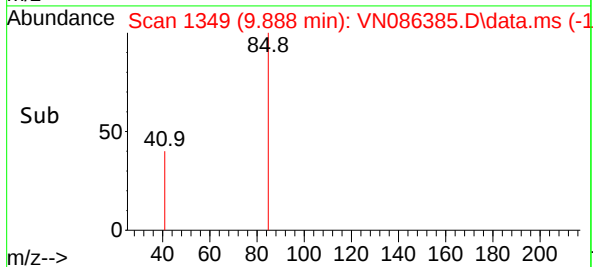
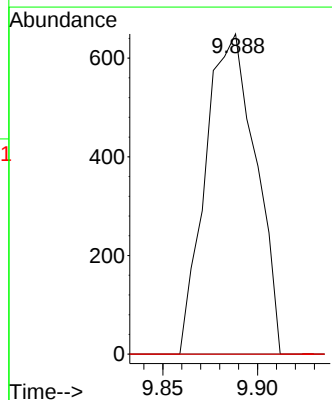
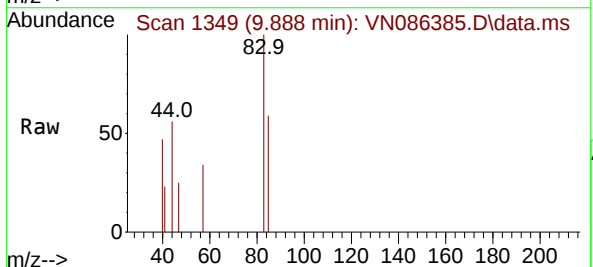
Tgt Ion: 83 Resp: 1198

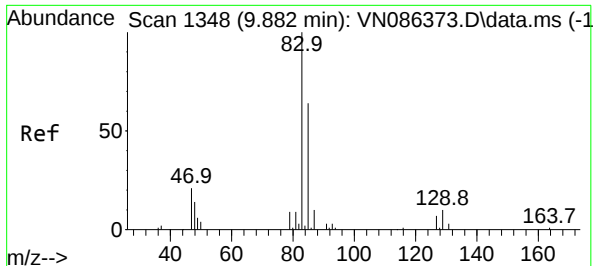
Ion Ratio Lower Upper

83 100

55 0.0 37.3 111.9#

98 0.0 23.8 71.5#

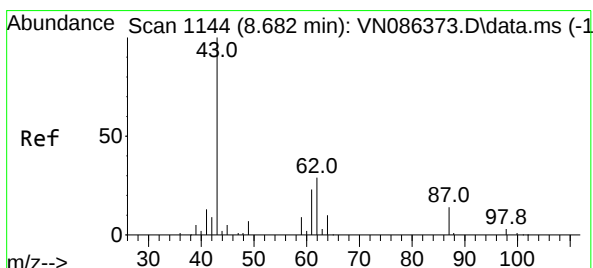
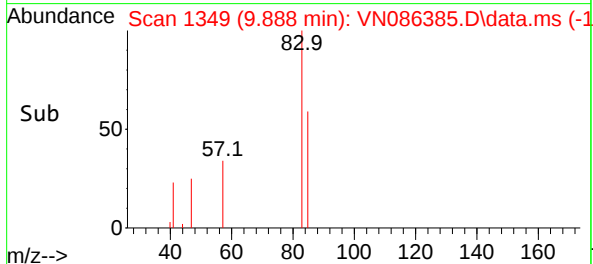
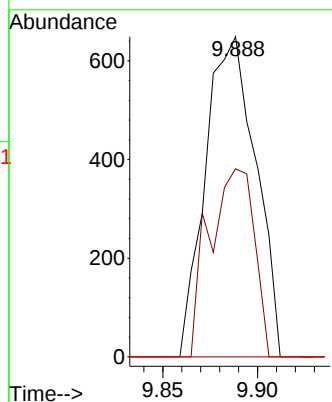
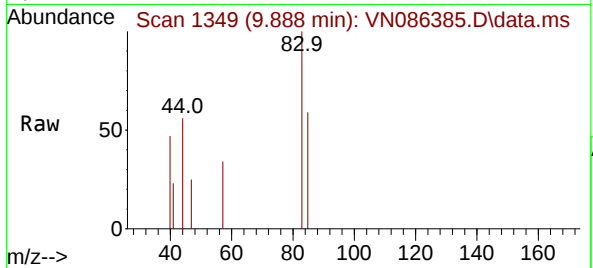




#41
Bromodichloromethane
Concen: 0.356 ug/l
RT: 9.888 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

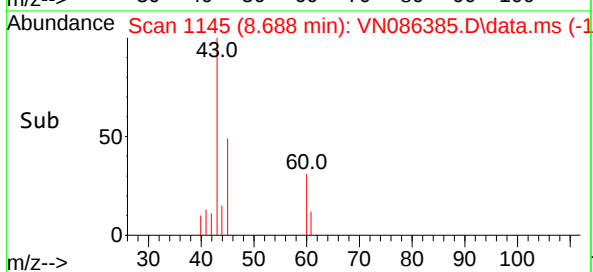
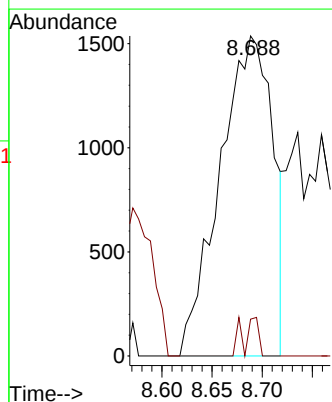
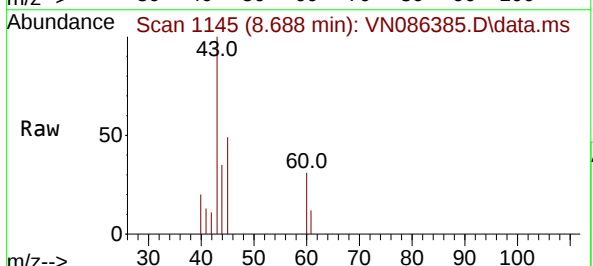
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

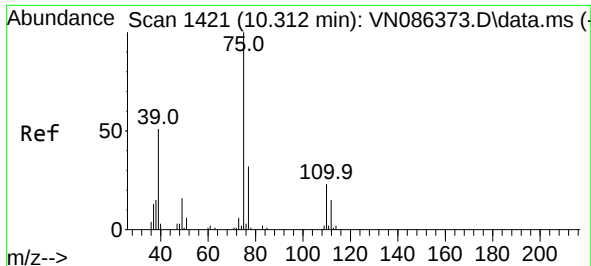
Tgt Ion: 83 Resp: 1198
Ion Ratio Lower Upper
83 100
85 58.7 51.1 76.7
127 0.0 5.9 8.9#



#44
Isopropyl Acetate
Concen: 1.025 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion: 43 Resp: 5649
Ion Ratio Lower Upper
43 100
61 2.3 21.0 31.4#

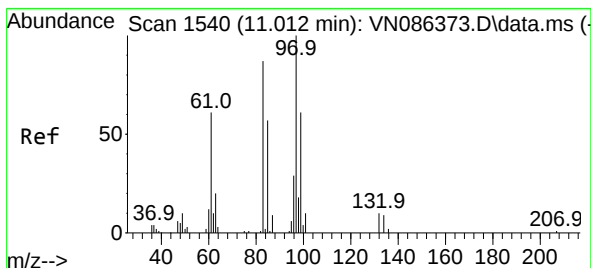
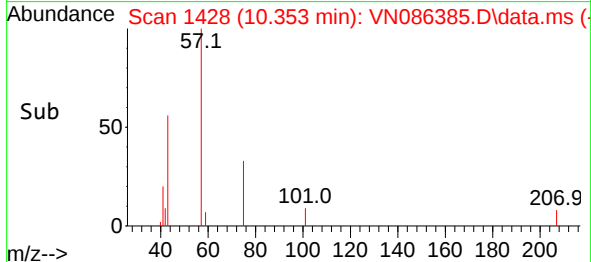
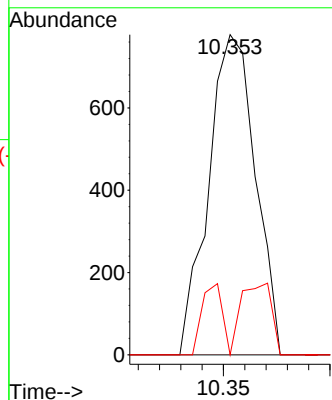
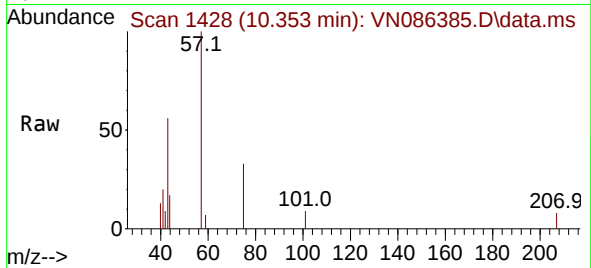




#49
 cis-1,3-Dichloropropene
 Concen: 0.301 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086385.D
 Acq: 23 Apr 2025 16:24

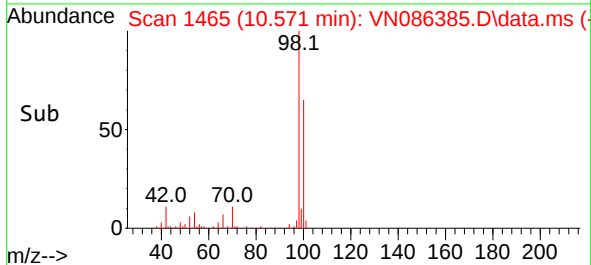
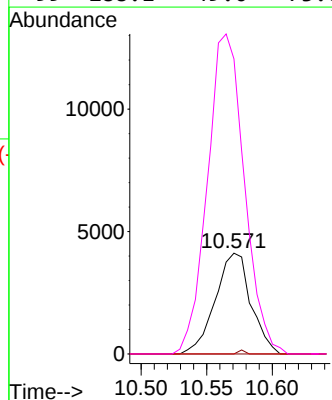
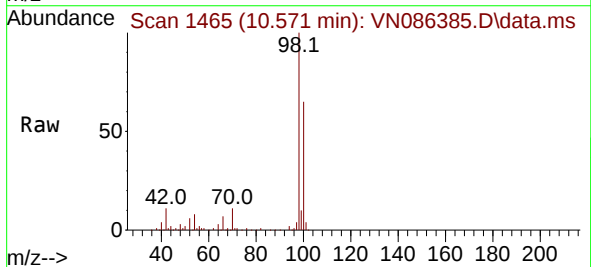
Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WASTE-WATER

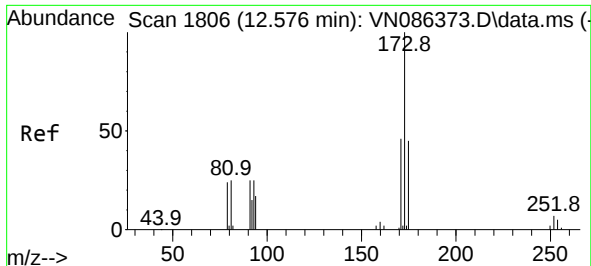
Tgt Ion: 75 Resp: 1192
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.6 38.4#
 39 0.0 40.6 60.8#



#50
 1,1,2-Trichloroethane
 Concen: 3.505 ug/l
 RT: 10.571 min Scan# 1465
 Delta R.T. -0.441 min
 Lab File: VN086385.D
 Acq: 23 Apr 2025 16:24

Tgt Ion: 97 Resp: 7778
 Ion Ratio Lower Upper
 97 100
 83 0.0 69.3 103.9#
 85 0.0 45.5 68.3#
 99 288.1 49.0 73.6#

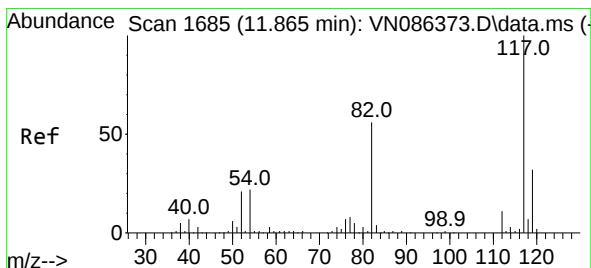
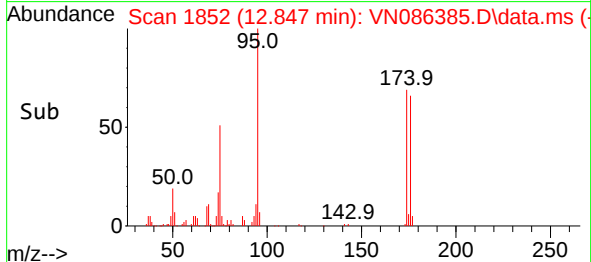
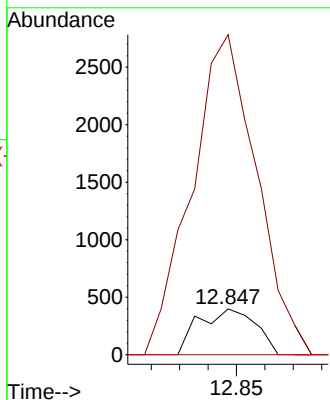
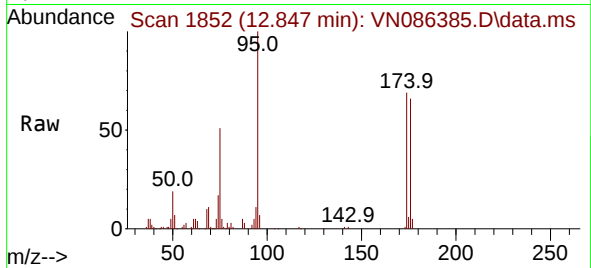




#56
Bromoform
Concen: 0.344 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.271 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

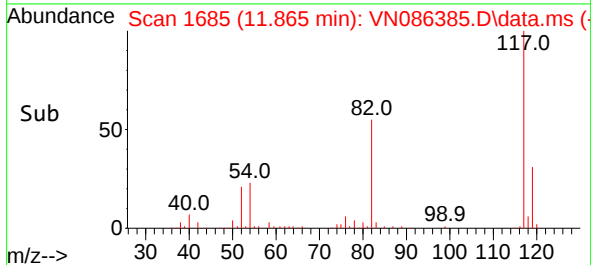
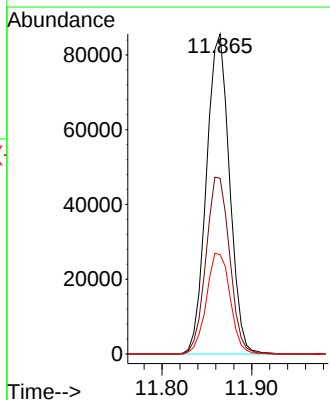
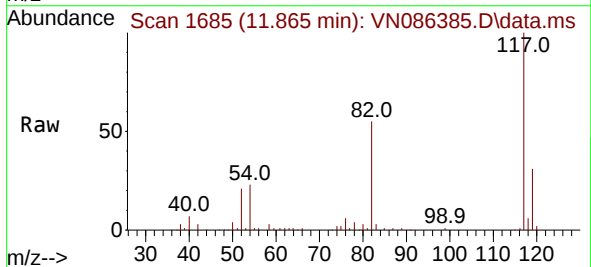
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

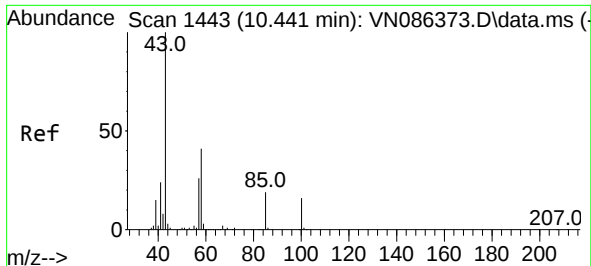
Tgt Ion:173 Resp: 556
Ion Ratio Lower Upper
173 100
175 796.2 39.0 58.6#
254 0.0 3.8 5.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion:117 Resp: 153120
Ion Ratio Lower Upper
117 100
82 56.6 45.5 68.3
119 32.4 25.9 38.9

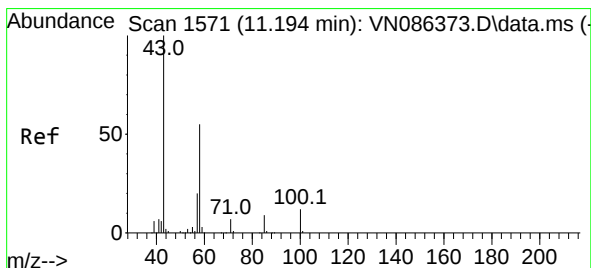
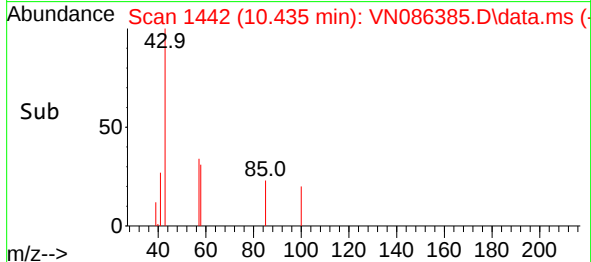
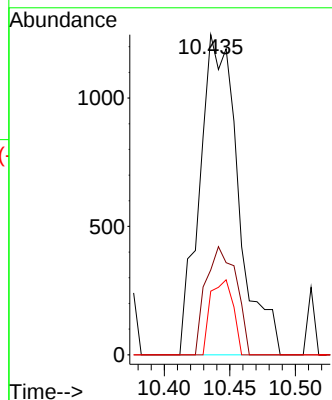
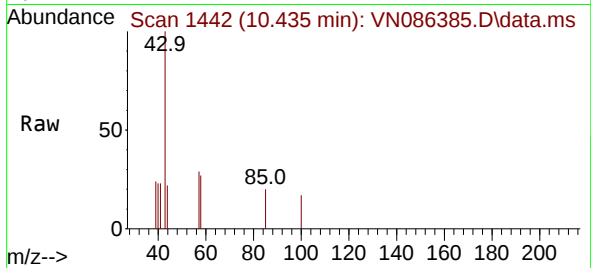




#58
4-Methyl-2-Pentanone
Concen: 0.867 ug/l
RT: 10.435 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

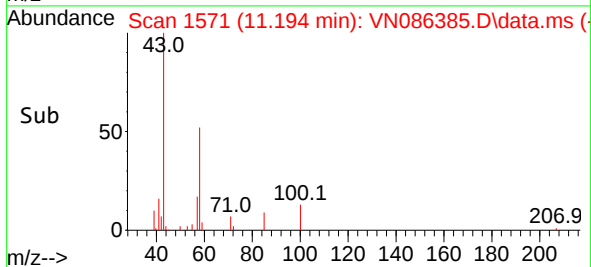
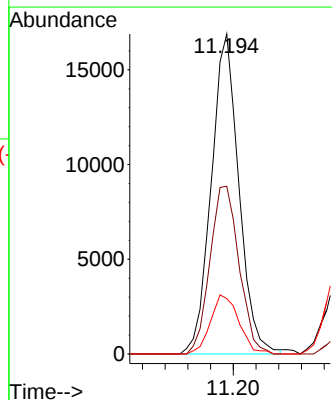
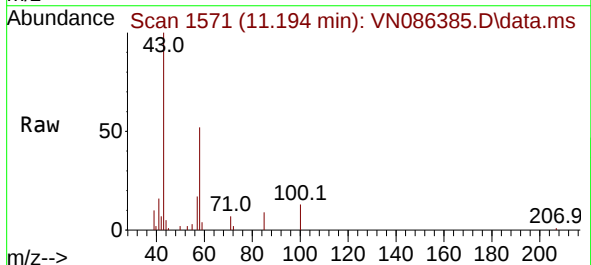
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

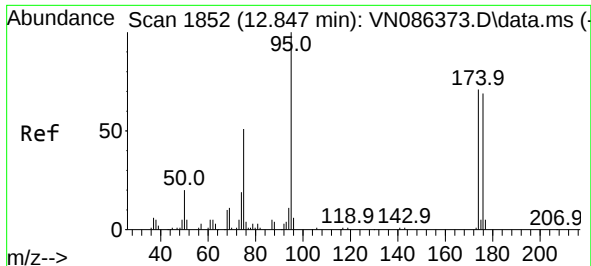
Tgt Ion:	43	Resp:	2569
Ion Ratio	Lower	Upper	
43	100		
58	26.4	33.0	49.6#
85	13.6	14.9	22.3#



#59
2-Hexanone
Concen: 13.059 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion:	43	Resp:	28516
Ion Ratio	Lower	Upper	
43	100		
58	55.2	45.0	67.6
57	18.8	15.5	23.3

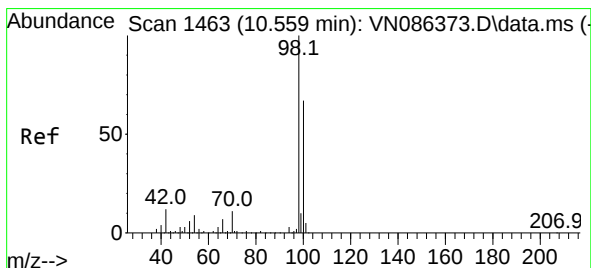
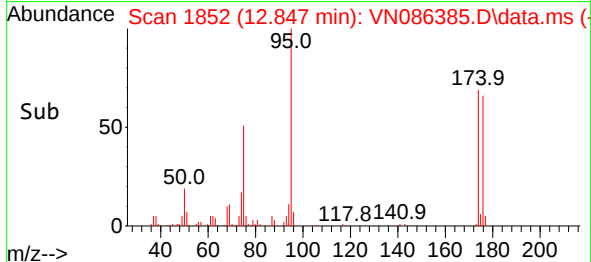
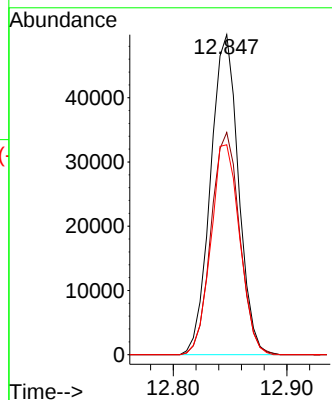
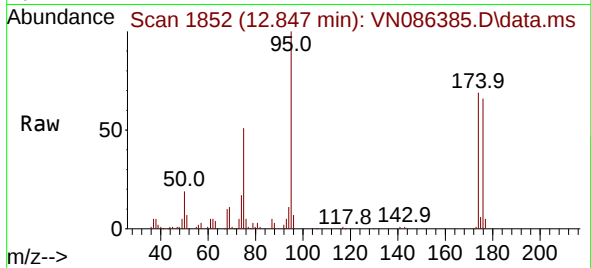




#60
4-Bromofluorobenzene
Concen: 28.264 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

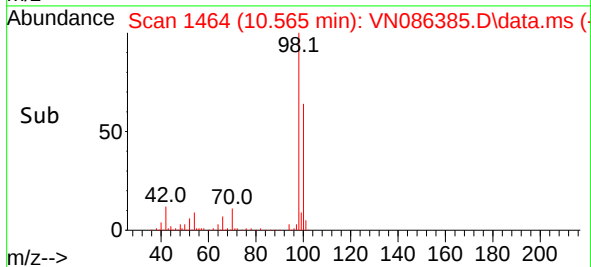
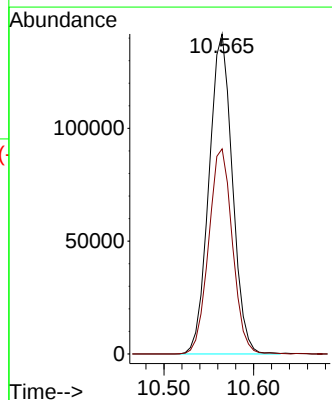
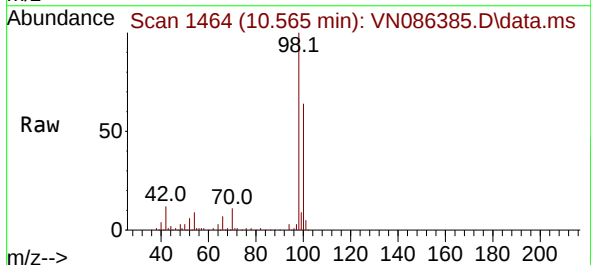
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

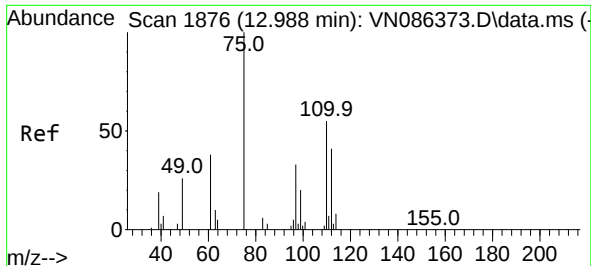
Tgt Ion: 95 Resp: 85059
Ion Ratio Lower Upper
95 100
174 71.0 56.6 84.8
176 68.0 53.3 79.9



#63
Toluene-d8
Concen: 30.473 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion: 98 Resp: 256697
Ion Ratio Lower Upper
98 100
100 65.2 53.1 79.7

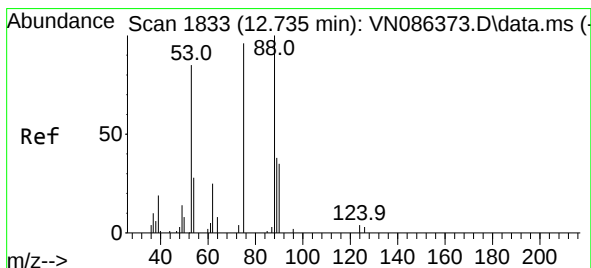
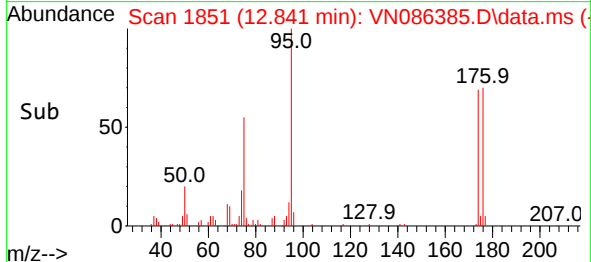
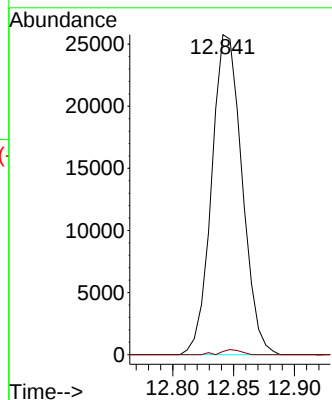
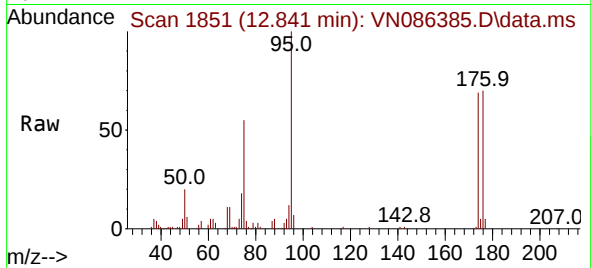




#72
1,2,3-Trichloropropane
Concen: 18.229 ug/l
RT: 12.841 min Scan# 1818
Delta R.T. -0.147 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

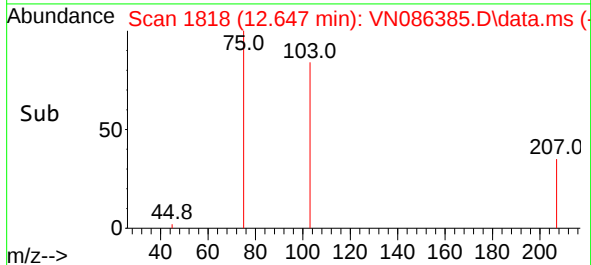
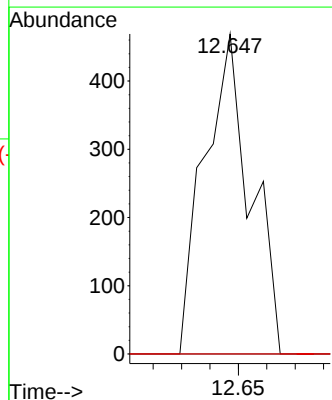
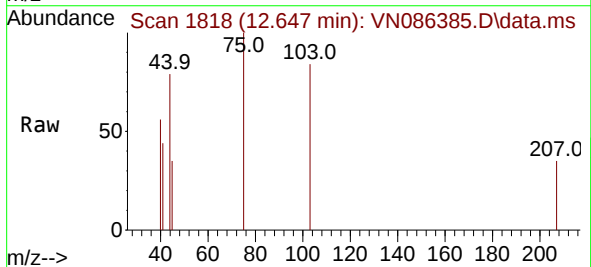
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

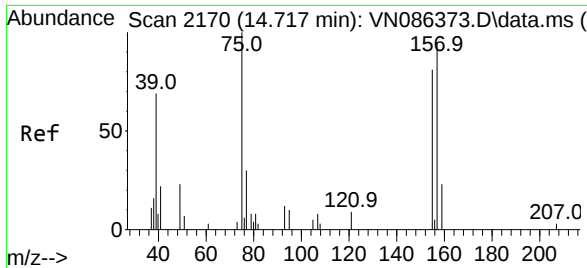
Tgt Ion: 75 Resp: 44771
Ion Ratio Lower Upper
75 100
77 0.9 0.0 464.4



#77
t-1,4-Dichloro-2-butene
Concen: 0.425 ug/l
RT: 12.647 min Scan# 1818
Delta R.T. -0.088 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion: 75 Resp: 530
Ion Ratio Lower Upper
75 100
53 0.0 46.0 138.0#
89 0.0 21.6 64.6#

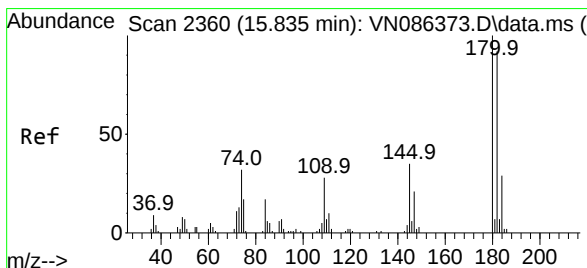
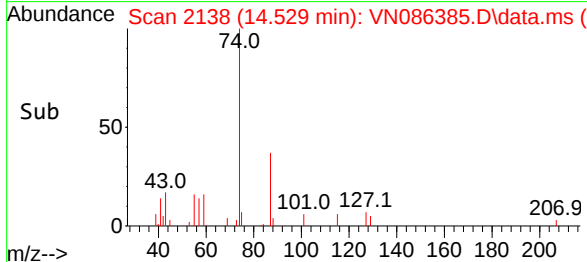
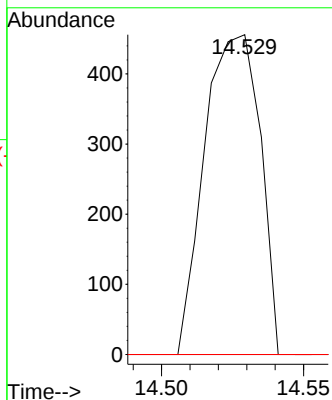
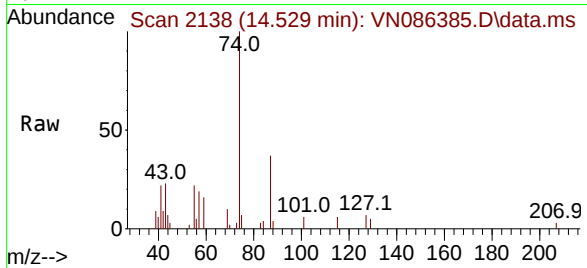




#88
1,2-Dibromo-3-Chloropropane
Concen: 1.086 ug/l
RT: 14.529 min Scan# 2170
Delta R.T. -0.188 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

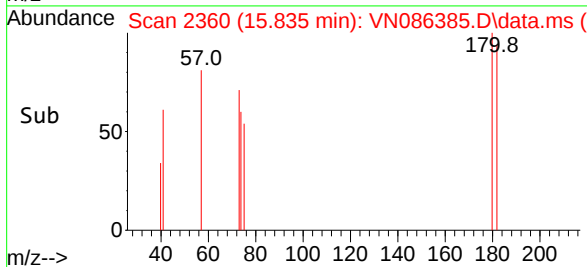
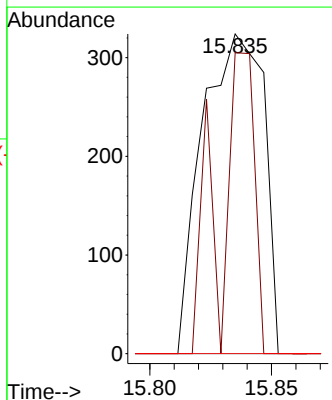
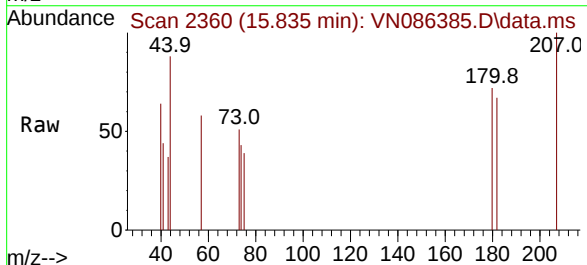
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

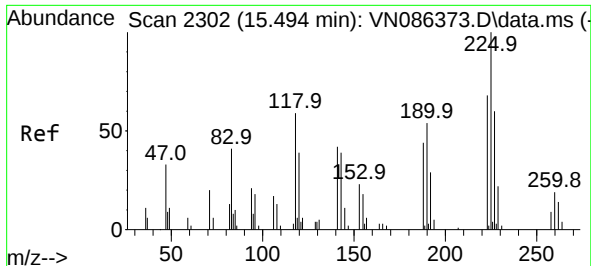
Tgt Ion: 75 Resp: 622
Ion Ratio Lower Upper
75 100
155 0.0 64.0 96.0#
157 0.0 78.2 117.4#



#89
1,2,4-Trichlorobenzene
Concen: 0.283 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion:180 Resp: 570
Ion Ratio Lower Upper
180 100
182 37.7 74.8 112.2#
145 0.0 26.9 40.3#

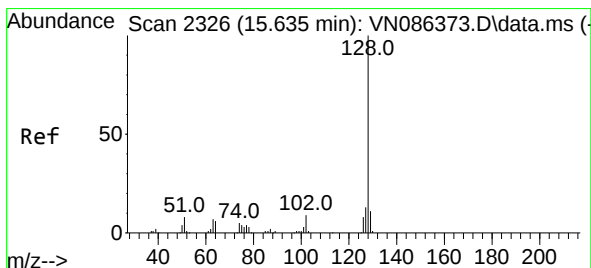
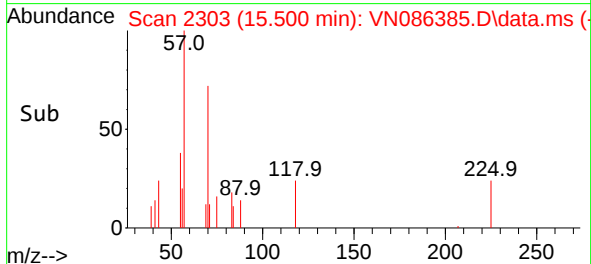
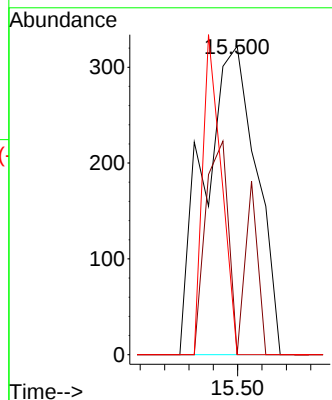
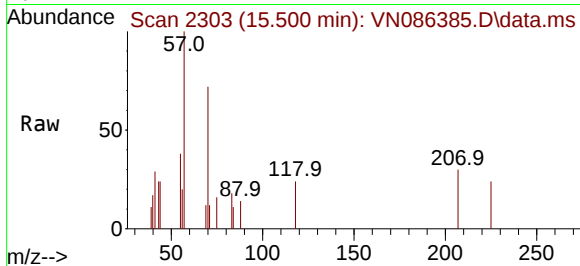




#90
Hexachlorobutadiene
Concen: 0.595 ug/l
RT: 15.500 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

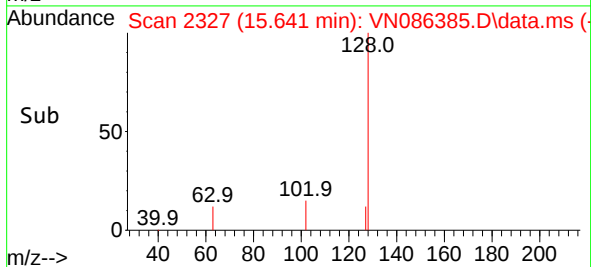
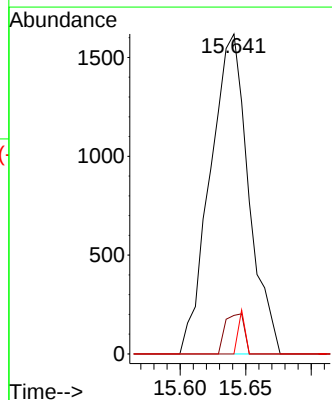
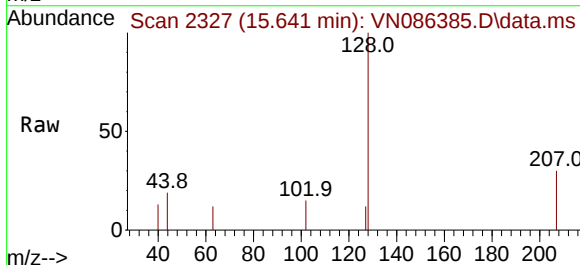
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

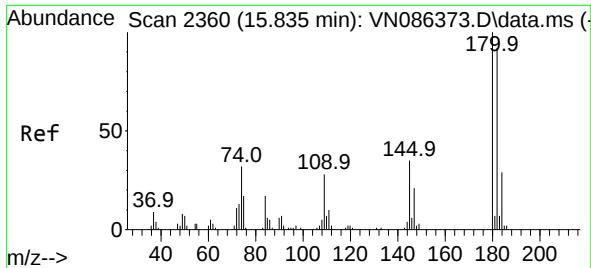
Tgt Ion:	225	Resp:	483
Ion	Ratio	Lower	Upper
225	100		
223	13.3	0.0	128.8
227	0.0	0.0	120.2



#91
Naphthalene
Concen: 0.457 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion:	128	Resp:	3299
Ion	Ratio	Lower	Upper
128	100		
127	6.1	10.6	15.8#
129	0.0	8.7	13.1#





#92

1,2,3-Trichlorobenzene

Concen: 0.283 ug/l

RT: 15.835 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN086385.D

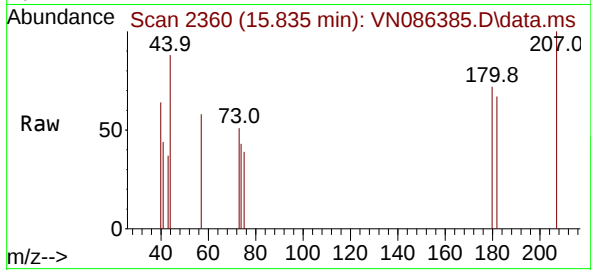
Acq: 23 Apr 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE-WATER



Tgt Ion:180 Resp: 570

Ion Ratio Lower Upper

180 100

182 37.7 0.0 187.0

145 0.0 0.0 67.2

