

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080825\
 Data File : VN087499.D
 Acq On : 08 Aug 2025 15:30
 Operator : JC\MD
 Sample : Q2811-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WASTE WATER

Quant Time: Aug 11 01:20:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

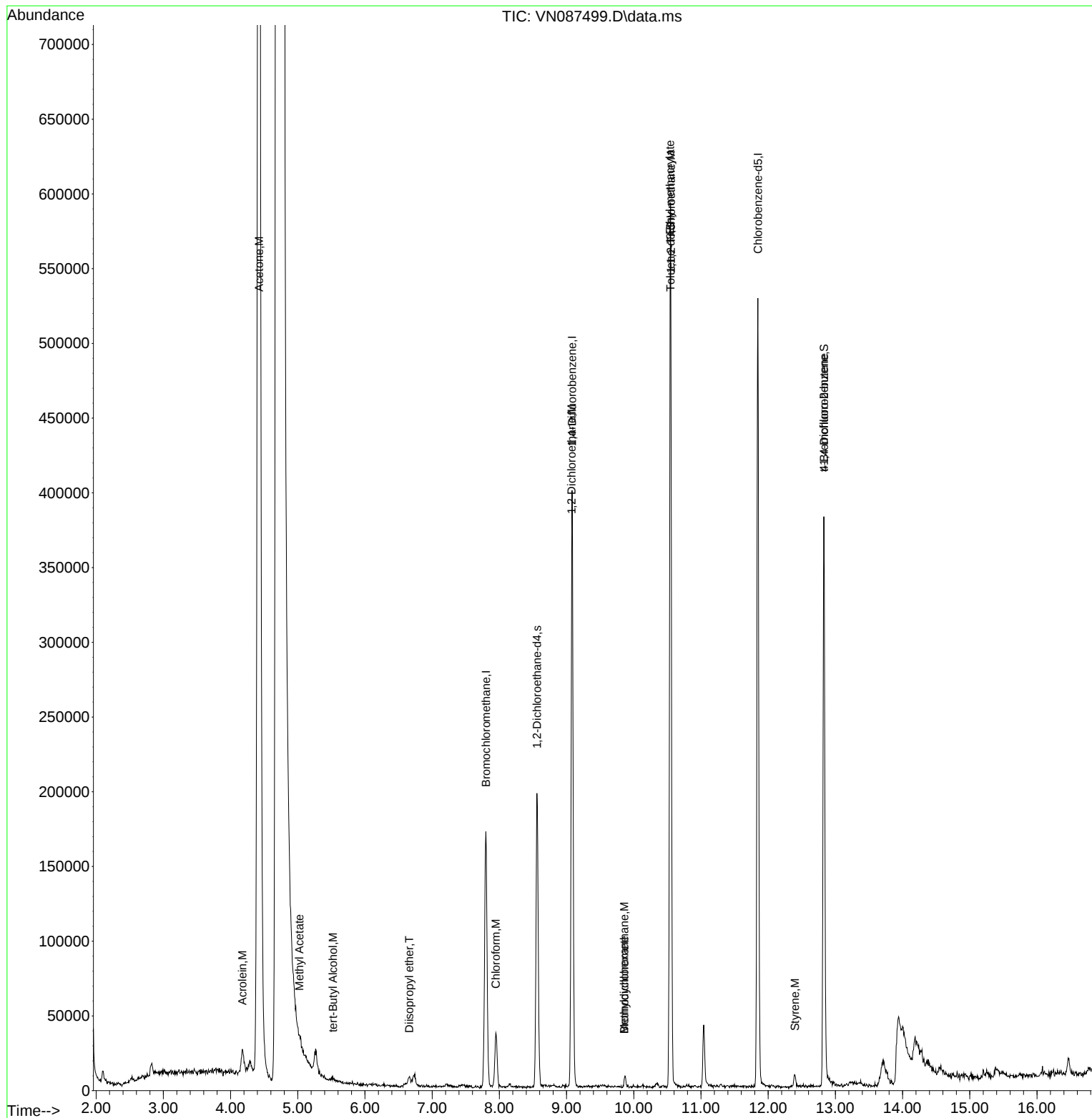
Internal Standards						
1) Bromochloromethane	7.800	128	57038	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	315848	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	279788	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	164675	31.302	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.333%
60) 4-Bromofluorobenzene	12.829	95	136373	28.323	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.400%
63) Toluene-d8	10.547	98	391775	30.432	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.433%
Target Compounds						
					Qvalue	
12) Methyl Acetate	5.024	43	1191	0.207	ug/l #	56
13) Acrolein	4.177	56	18443	20.946	ug/l	96
15) Acetone	4.424	58	756306	1051.515	ug/l	94
20) Diisopropyl ether	6.659	45	9265	0.639	ug/l #	75
23) tert-Butyl Alcohol	5.524	59	1939	1.813	ug/l #	100
25) Chloroform	7.947	83	32522	4.155	ug/l	93
36) 1,2-Dichloroethane	9.077	62	13916	2.117	ug/l #	77
38) Methylcyclohexane	9.859	83	2149	0.360	ug/l #	20
41) Bromodichloromethane	9.859	83	2149	0.331	ug/l #	89
50) 1,1,2-Trichloroethane	10.553	97	13780	3.486	ug/l #	1
51) Ethyl methacrylate	10.541	69	1790	0.257	ug/l	90
69) Styrene	12.400	104	4911	0.414	ug/l	96
77) t-1,4-Dichloro-2-butene	12.829	75	81003	37.964	ug/l #	4

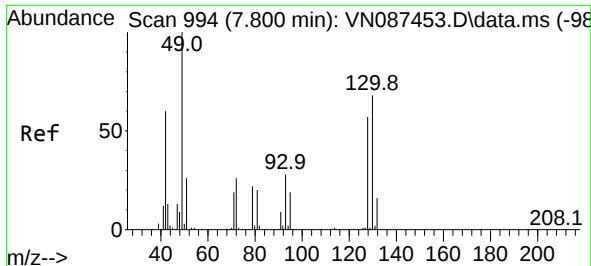
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080825\
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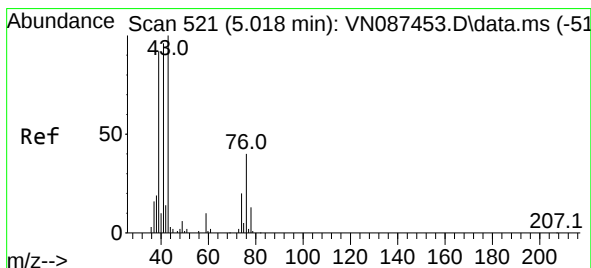
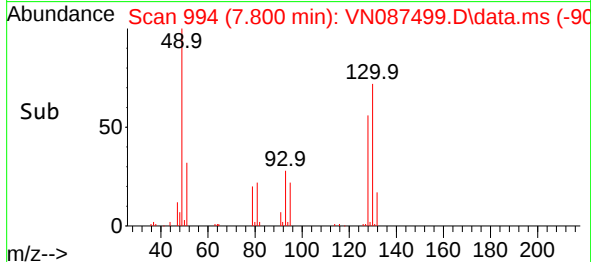
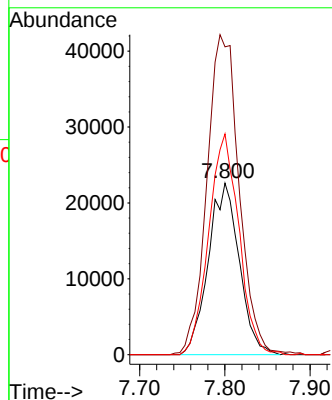
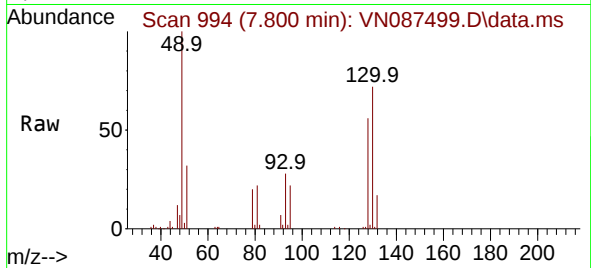




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087499.D
Acq: 08 Aug 2025 15:30

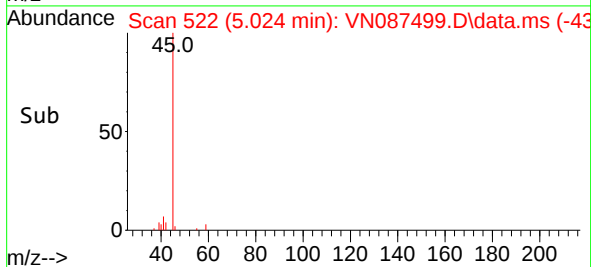
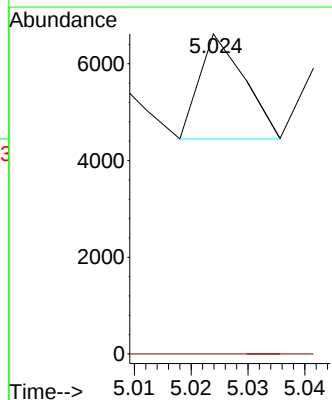
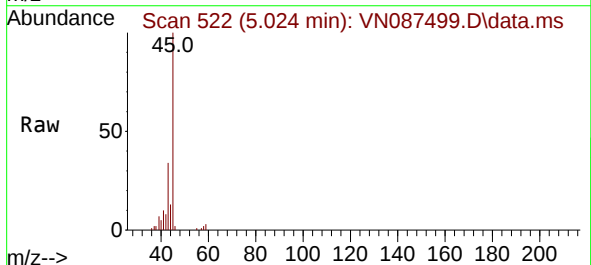
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

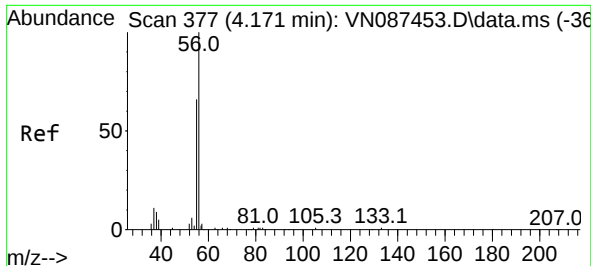
Tgt Ion:128 Resp: 57038
Ion Ratio Lower Upper
128 100
49 194.6 0.0 494.8
130 125.4 0.0 321.5



#12
Methyl Acetate
Concen: 0.207 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN087499.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 43 Resp: 1191
Ion Ratio Lower Upper
43 100
74 0.0 16.0 24.0#

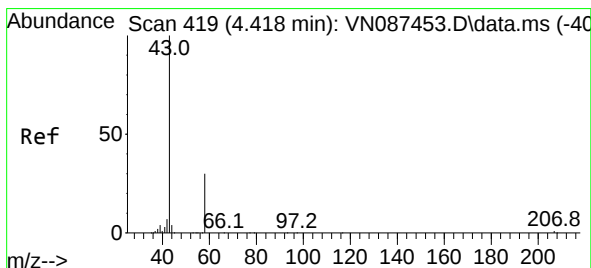
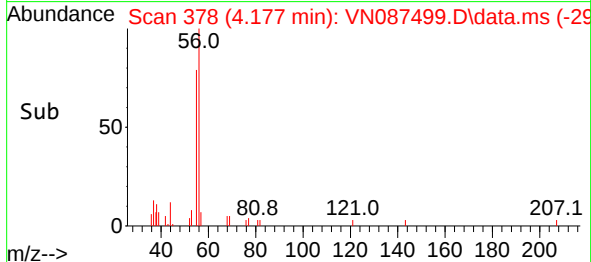
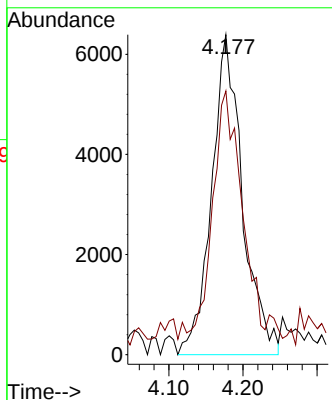
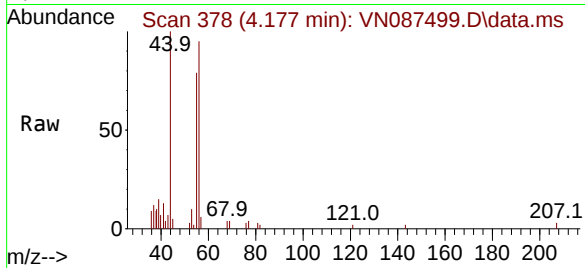




#13
Acrolein
Concen: 20.946 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN087499.D
Acq: 08 Aug 2025 15:30

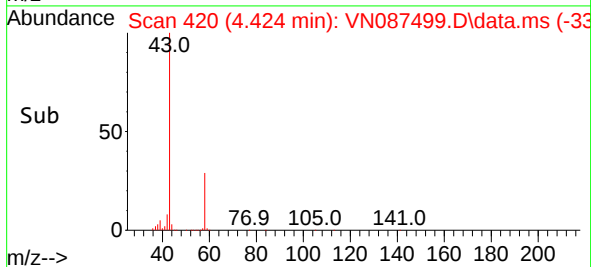
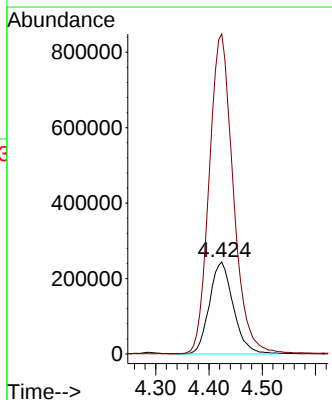
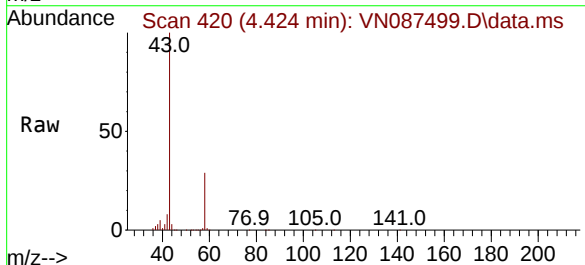
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

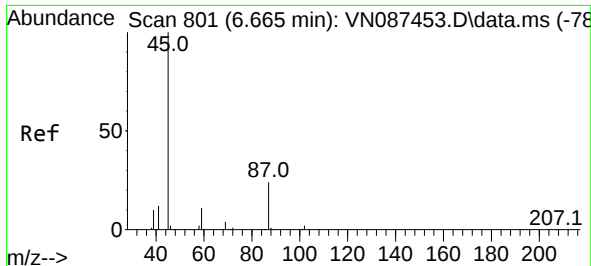
Tgt Ion: 56 Resp: 18443
Ion Ratio Lower Upper
56 100
55 68.4 57.4 86.0



#15
Acetone
Concen: 1051.515 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN087499.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 58 Resp: 756306
Ion Ratio Lower Upper
58 100
43 348.0 268.9 403.3

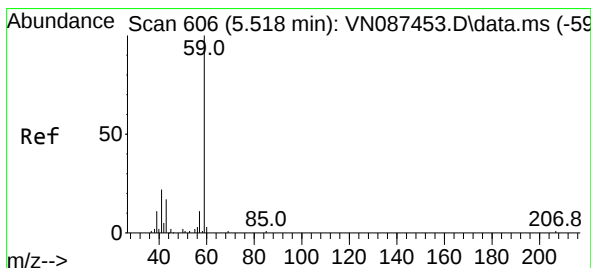
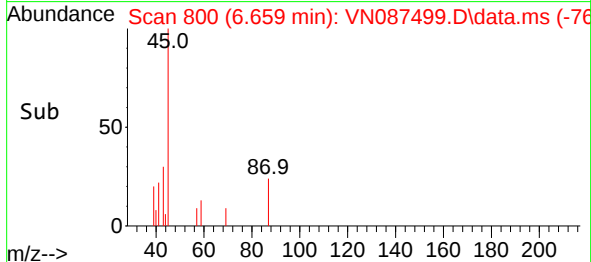
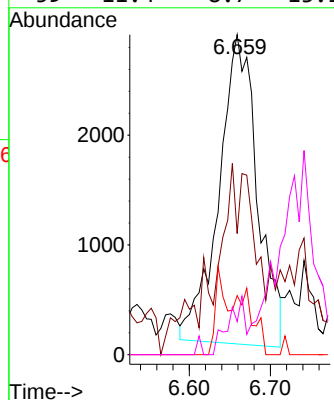
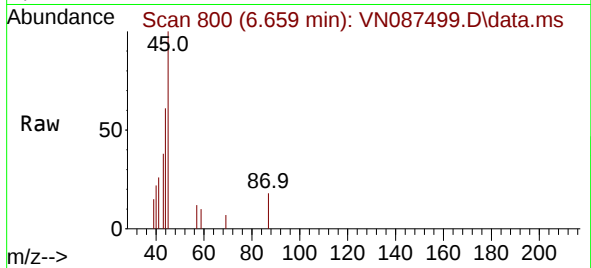




#20
Diisopropyl ether
Concen: 0.639 ug/l
RT: 6.659 min Scan# 801
Delta R.T. -0.006 min
Lab File: VN087499.D
Acq: 08 Aug 2025 15:30

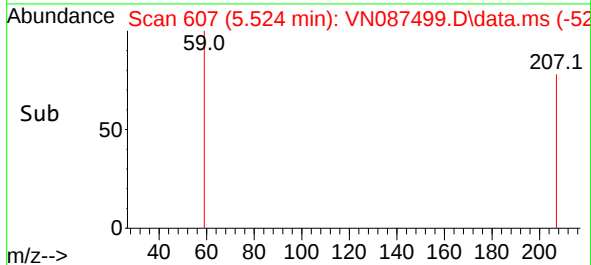
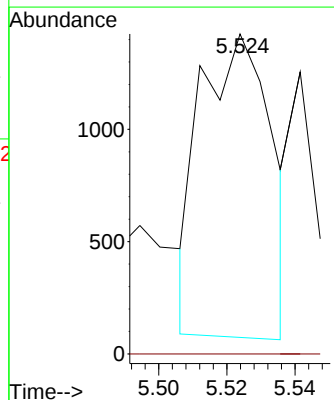
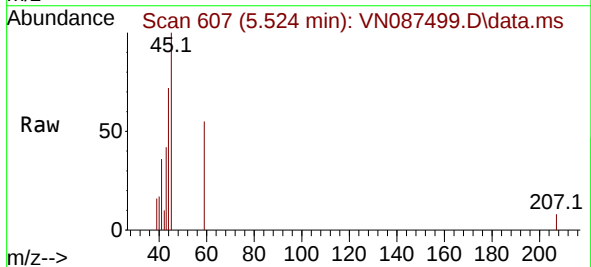
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

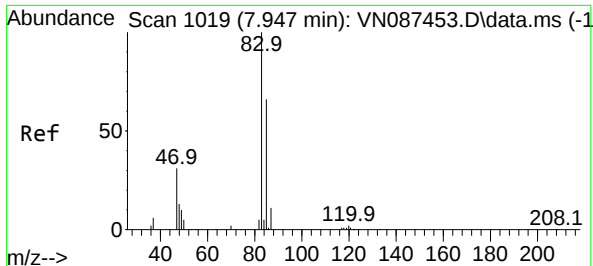
Tgt Ion:	45	Resp:	9265
Ion	Ratio	Lower	Upper
45	100		
43	28.9	44.7	67.1#
87	20.3	20.2	30.2
59	11.4	8.7	13.1



#23
tert-Butyl Alcohol
Concen: 1.813 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN087499.D
Acq: 08 Aug 2025 15:30

Tgt Ion:	59	Resp:	1939
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#25

Chloroform

Concen: 4.155 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087499.D

Acq: 08 Aug 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

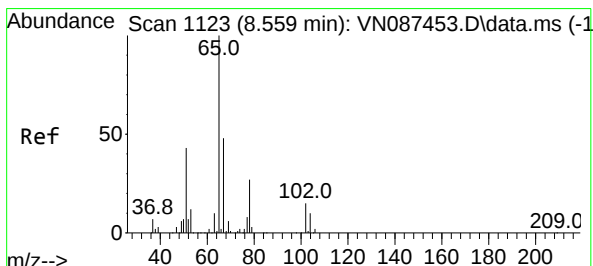
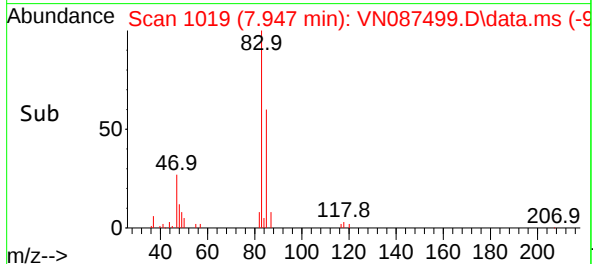
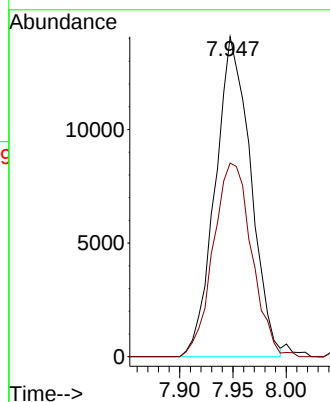
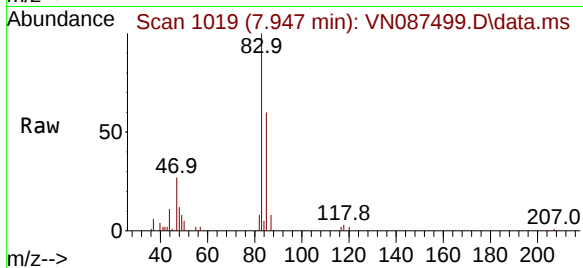
EFF-WASTE WATER

Tgt Ion: 83 Resp: 32522

Ion Ratio Lower Upper

83 100

85 60.5 52.6 78.8



#27

1,2-Dichloroethane-d4

Concen: 31.302 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087499.D

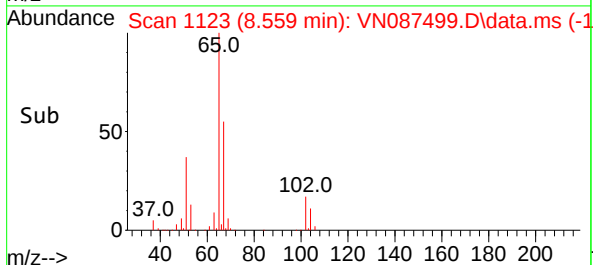
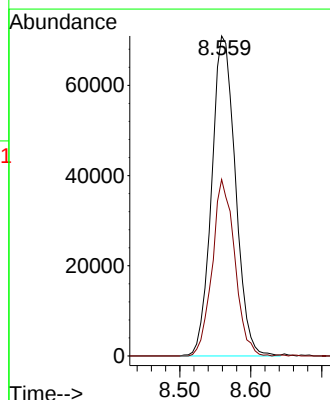
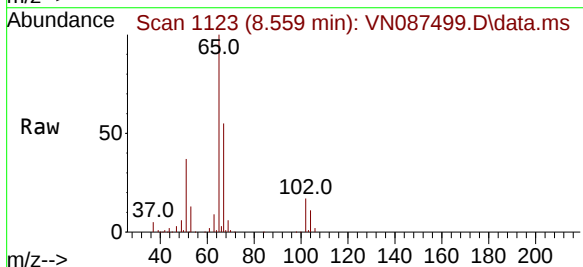
Acq: 08 Aug 2025 15:30

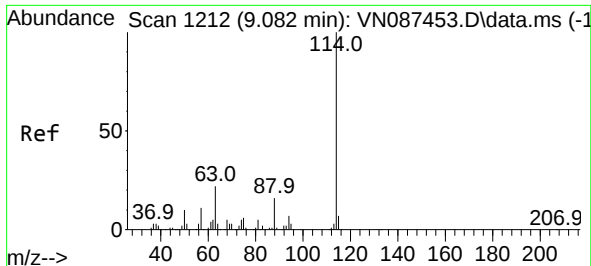
Tgt Ion: 65 Resp: 164675

Ion Ratio Lower Upper

65 100

67 52.1 40.8 61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087499.D

Acq: 08 Aug 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE WATER

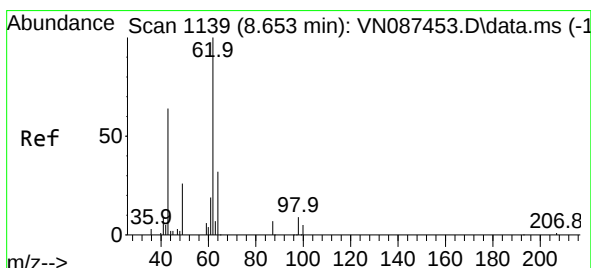
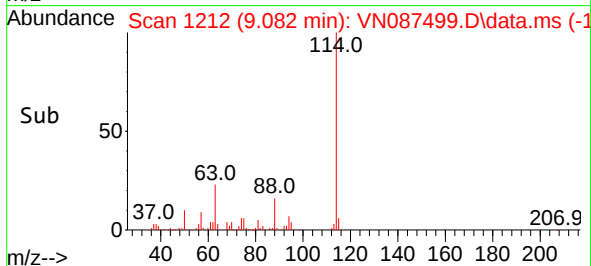
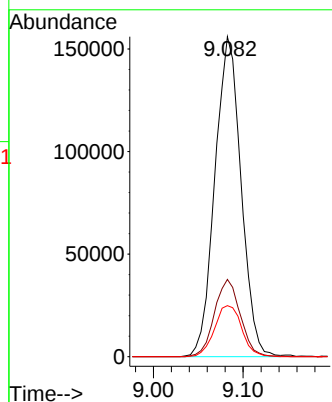
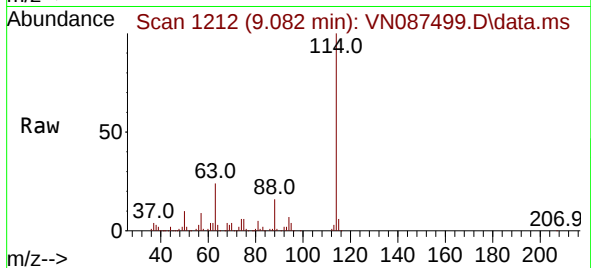
Tgt Ion:114 Resp: 315848

Ion Ratio Lower Upper

114 100

63 23.8 18.9 28.3

88 16.6 13.1 19.7



#36

1,2-Dichloroethane

Concen: 2.117 ug/l

RT: 9.077 min Scan# 1211

Delta R.T. 0.424 min

Lab File: VN087499.D

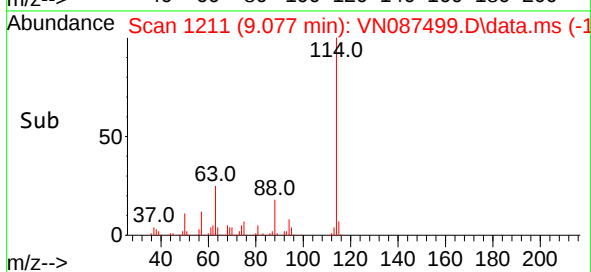
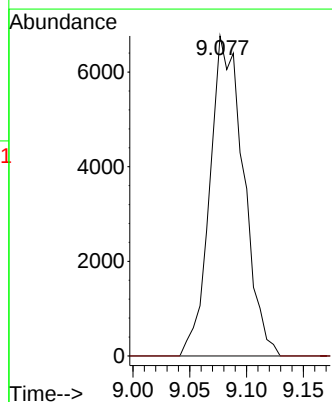
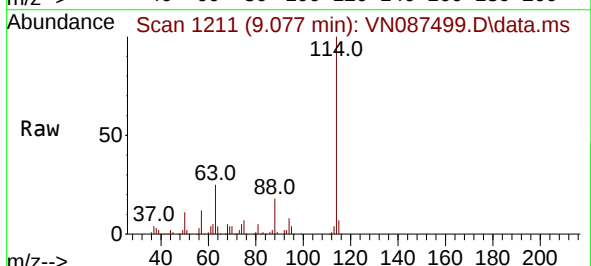
Acq: 08 Aug 2025 15:30

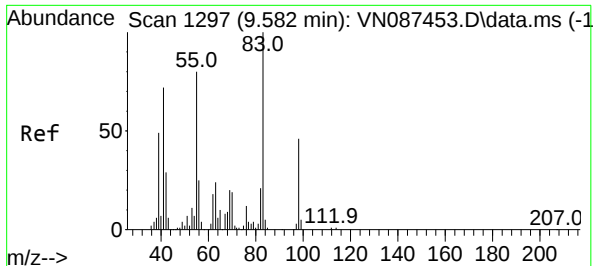
Tgt Ion: 62 Resp: 13916

Ion Ratio Lower Upper

62 100

98 0.0 6.6 9.8#





#38

Methylcyclohexane

Concen: 0.360 ug/l

RT: 9.859 min Scan# 1344

Delta R.T. 0.276 min

Lab File: VN087499.D

Acq: 08 Aug 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE WATER

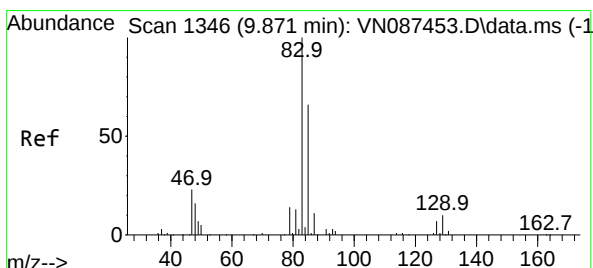
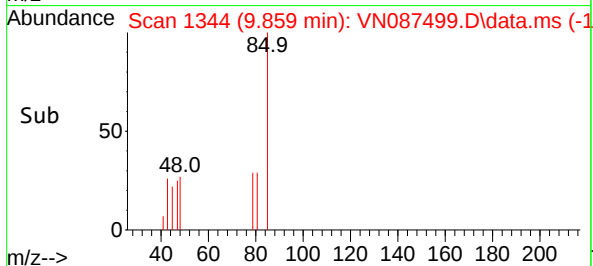
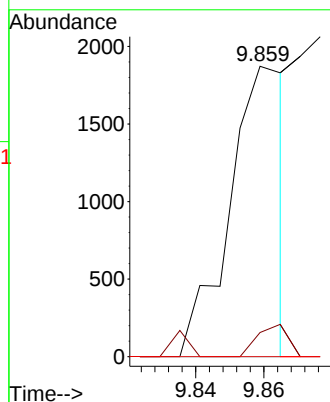
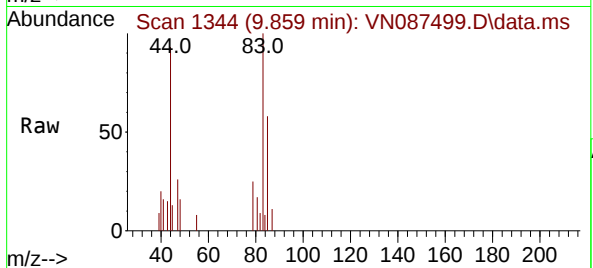
Tgt Ion: 83 Resp: 2149

Ion Ratio Lower Upper

83 100

55 6.0 41.2 123.6#

98 0.0 23.3 69.9#



#41

Bromodichloromethane

Concen: 0.331 ug/l

RT: 9.859 min Scan# 1344

Delta R.T. -0.012 min

Lab File: VN087499.D

Acq: 08 Aug 2025 15:30

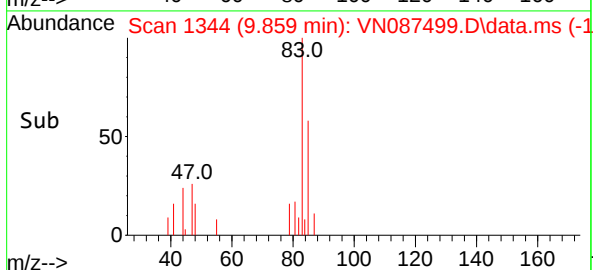
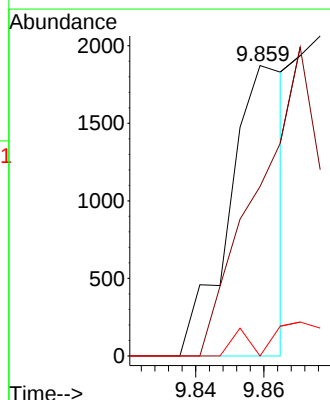
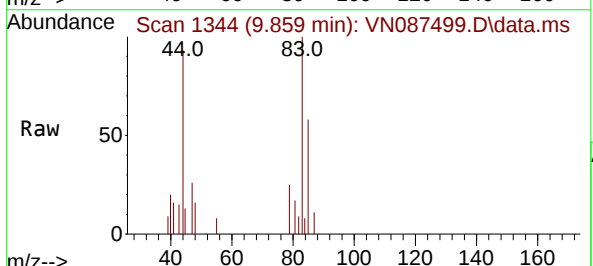
Tgt Ion: 83 Resp: 2149

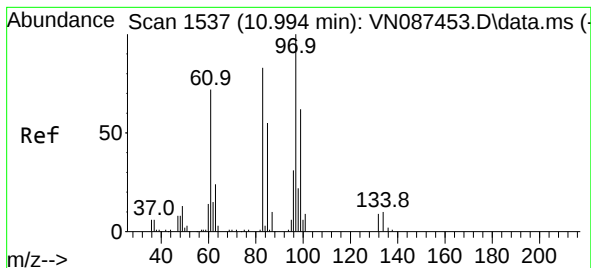
Ion Ratio Lower Upper

83 100

85 58.3 52.9 79.3

127 0.0 5.8 8.6#

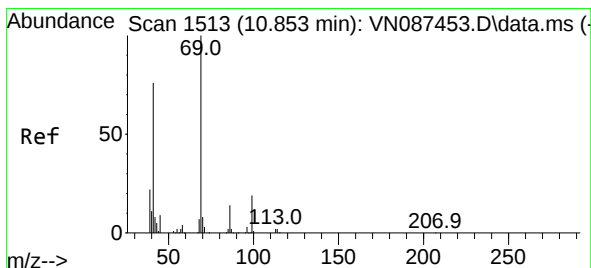
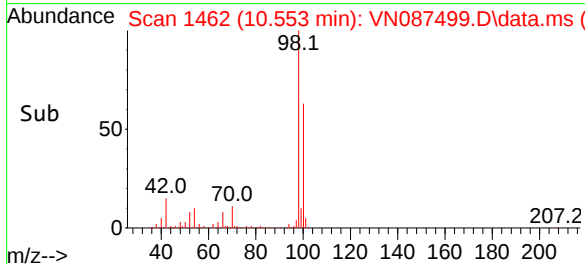
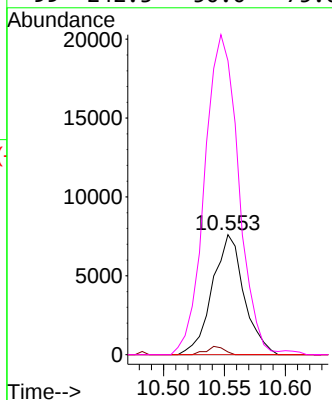
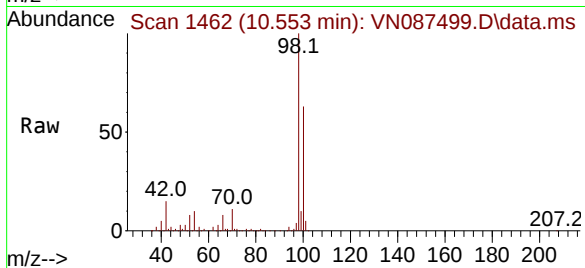




#50
1,1,2-Trichloroethane
Concen: 3.486 ug/l
RT: 10.553 min Scan# 1462
Delta R.T. -0.441 min
Lab File: VN087499.D
Acq: 08 Aug 2025 15:30

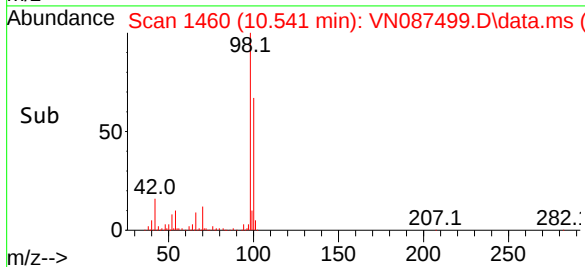
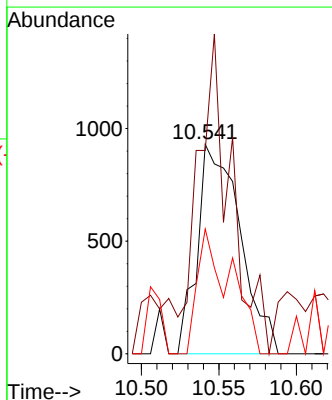
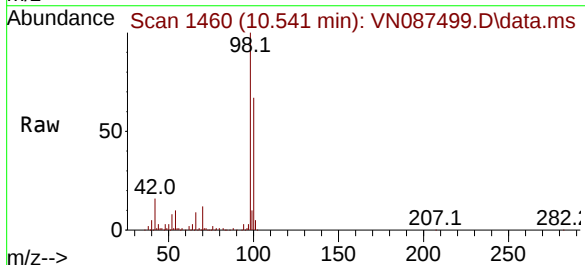
Instrument : MSVOA_N
ClientSampleId : EFF-WASTE WATER

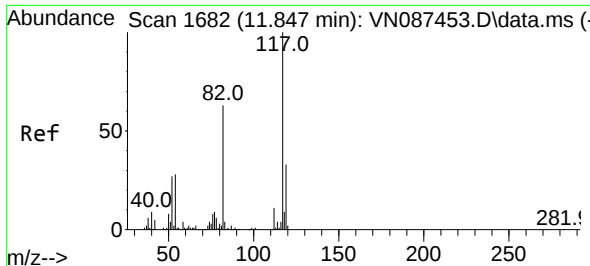
Tgt Ion:	97	Resp:	13780
Ion	Ratio	Lower	Upper
97	100		
83	2.3	66.2	99.2#
85	0.0	43.9	65.9#
99	242.3	50.0	75.0#



#51
Ethyl methacrylate
Concen: 0.257 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.312 min
Lab File: VN087499.D
Acq: 08 Aug 2025 15:30

Tgt Ion:	69	Resp:	1790
Ion	Ratio	Lower	Upper
69	100		
41	79.5	38.0	114.1
39	59.6	23.2	69.5

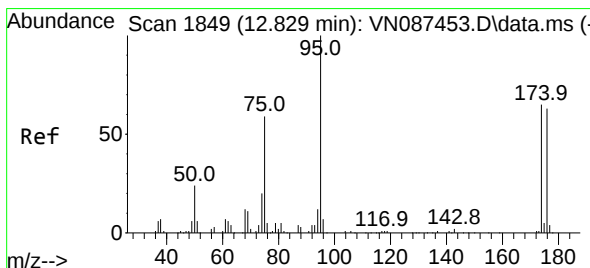
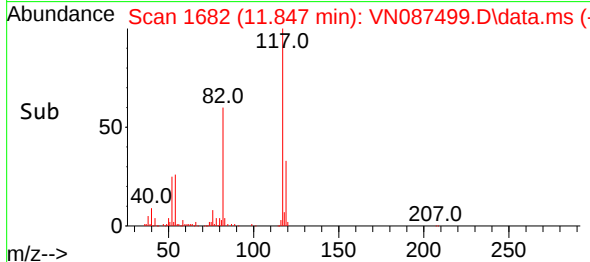
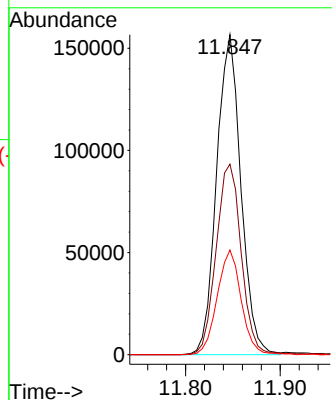
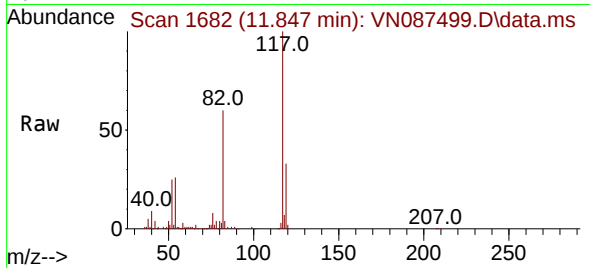




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087499.D
Acq: 08 Aug 2025 15:30

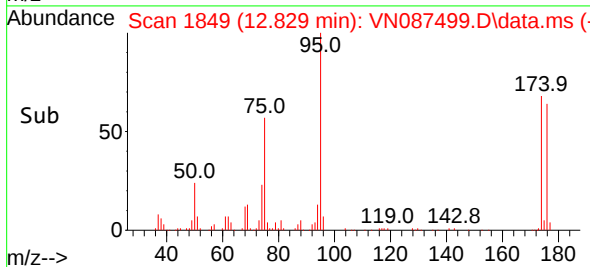
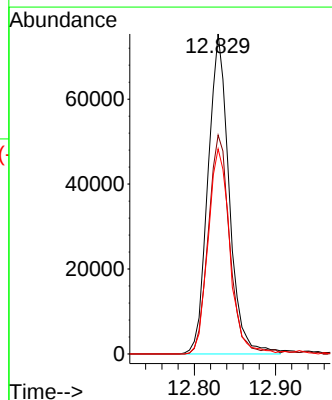
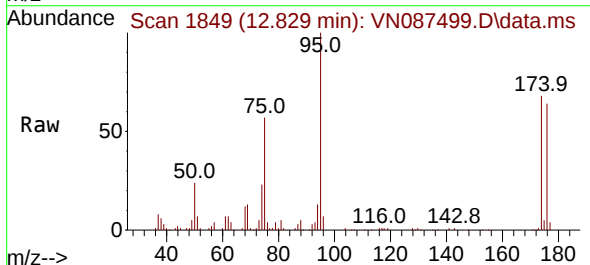
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

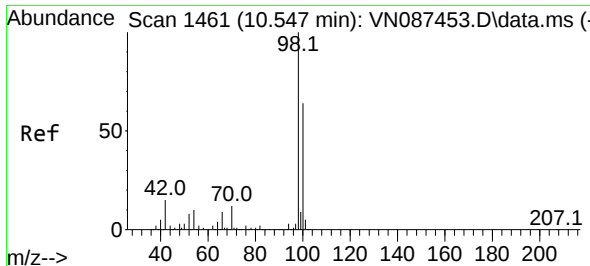
Tgt Ion:117 Resp: 279788
Ion Ratio Lower Upper
117 100
82 61.4 49.2 73.8
119 32.2 25.7 38.5



#60
4-Bromofluorobenzene
Concen: 28.323 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087499.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 95 Resp: 136373
Ion Ratio Lower Upper
95 100
174 68.7 52.3 78.5
176 66.1 49.8 74.8

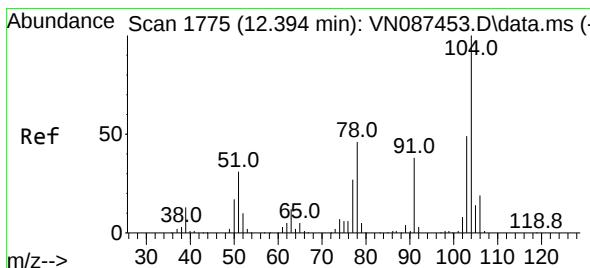
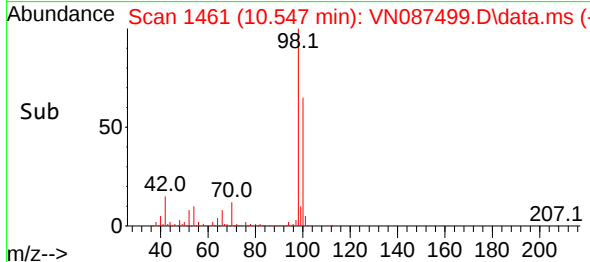
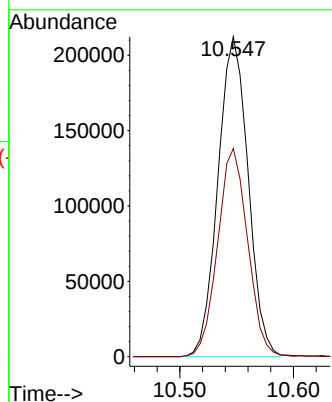
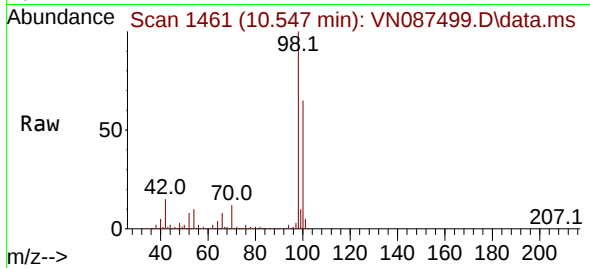




#63
Toluene-d8
Concen: 30.432 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087499.D
Acq: 08 Aug 2025 15:30

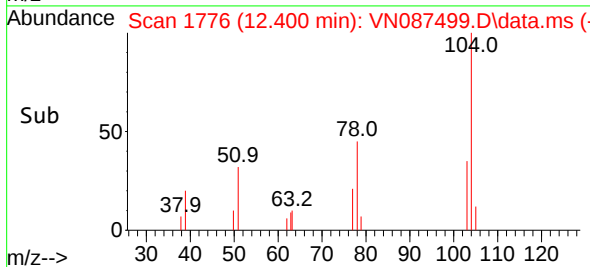
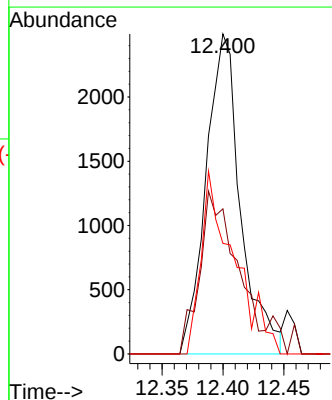
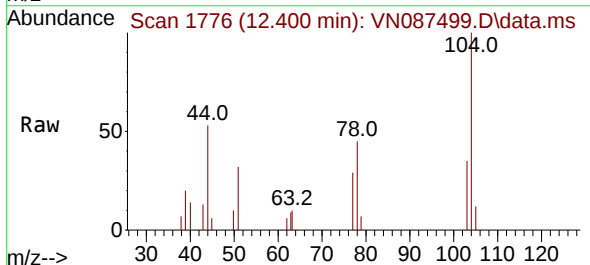
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE WATER

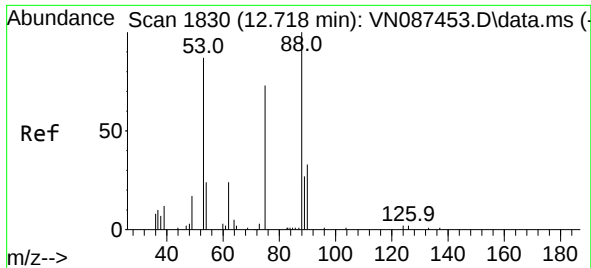
Tgt Ion: 98 Resp: 391775
Ion Ratio Lower Upper
98 100
100 64.7 50.5 75.7



#69
Styrene
Concen: 0.414 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN087499.D
Acq: 08 Aug 2025 15:30

Tgt Ion:104 Resp: 4911
Ion Ratio Lower Upper
104 100
78 53.9 43.8 65.8
103 49.0 43.1 64.7





#77

t-1,4-Dichloro-2-butene

Concen: 37.964 ug/l

RT: 12.829 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN087499.D

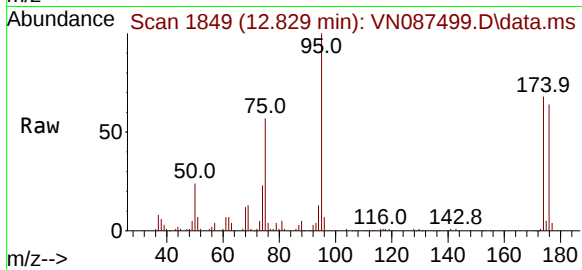
Acq: 08 Aug 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE WATER



Tgt Ion: 75 Resp: 81003

Ion Ratio Lower Upper

75 100

53 0.0 59.0 176.8#

89 0.4 22.1 66.5#

