

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082025\
 Data File : VN087607.D
 Acq On : 20 Aug 2025 11:14
 Operator : JC\MD
 Sample : Q2902-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL-DSN-002

Quant Time: Aug 21 02:41:21 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)

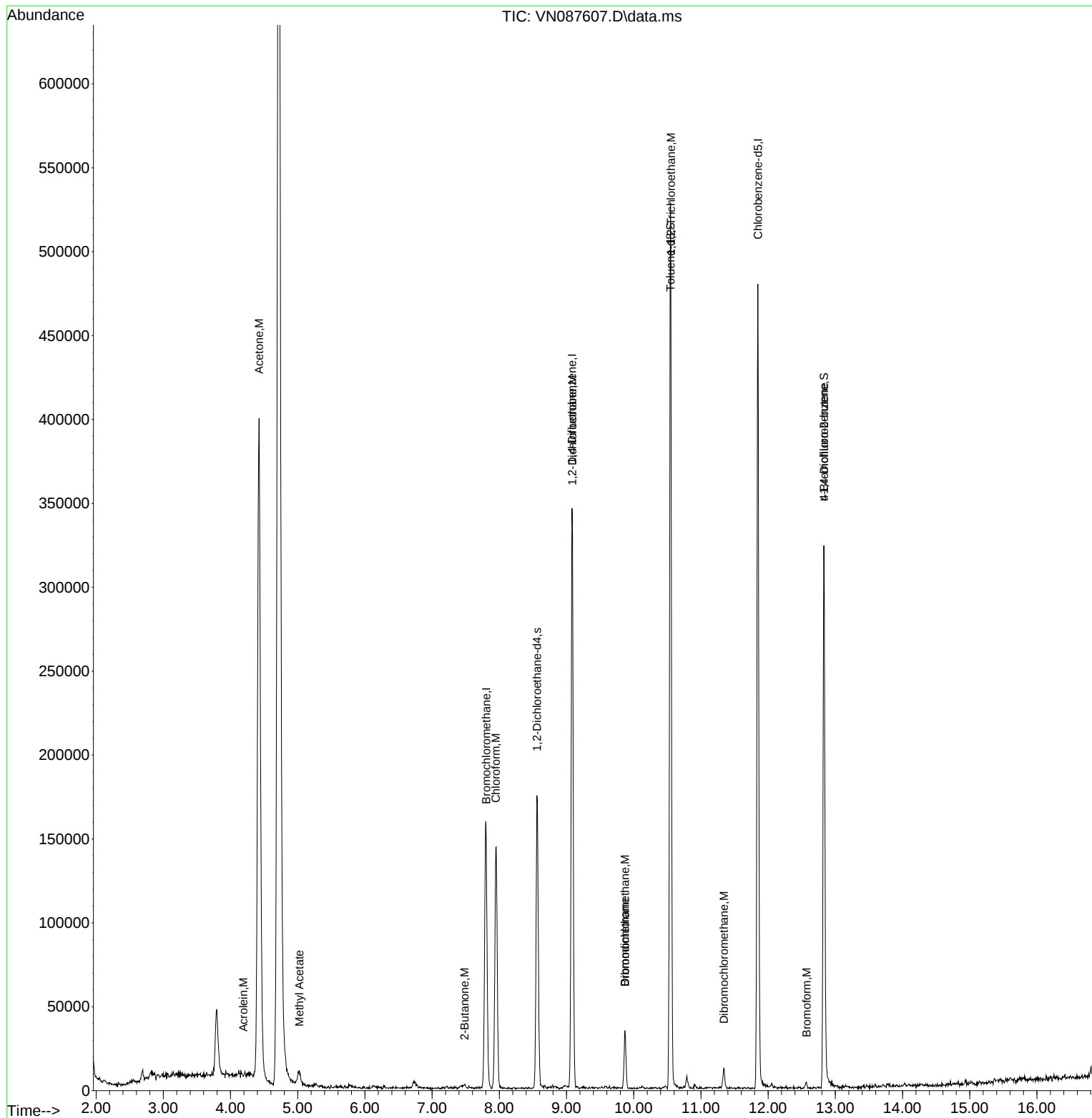
Internal Standards						
1) Bromochloromethane	7.806	128	53651	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	289860	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	254089	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	146454	29.596	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.667%
60) 4-Bromofluorobenzene	12.829	95	114013	26.074	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.900%
63) Toluene-d8	10.547	98	350710	29.998	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.000%
Target Compounds						
					Qvalue	
12) Methyl Acetate	5.024	43	15059	2.777	ug/l #	84
13) Acrolein	4.189	56	560	0.676	ug/l	92
15) Acetone	4.424	58	225836	333.809	ug/l	95
25) Chloroform	7.947	83	138719	18.843	ug/l	97
30) 2-Butanone	7.483	43	2572	0.738	ug/l #	74
36) 1,2-Dichloroethane	9.088	62	11402	1.890	ug/l #	77
40) Dibromomethane	9.871	93	769	0.268	ug/l #	10
41) Bromodichloromethane	9.871	83	22851	3.831	ug/l	98
50) 1,1,2-Trichloroethane	10.553	97	13017	3.589	ug/l #	1
53) Dibromochloromethane	11.341	129	6730	1.607	ug/l	94
56) Bromoform	12.571	173	1588	0.573	ug/l #	48
77) t-1,4-Dichloro-2-butene	12.829	75	69778	36.011	ug/l #	3

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

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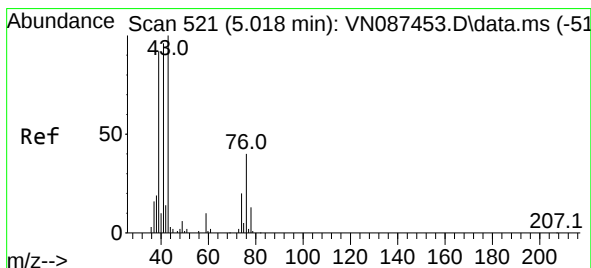
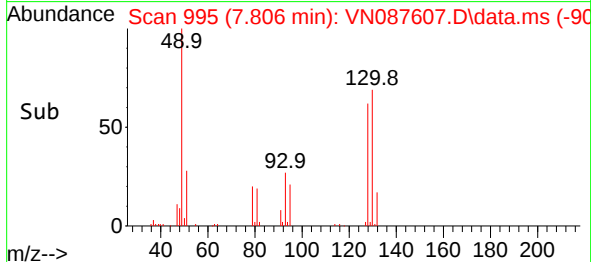
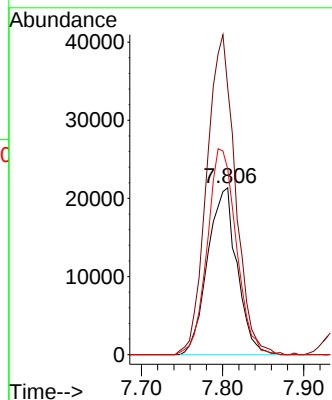
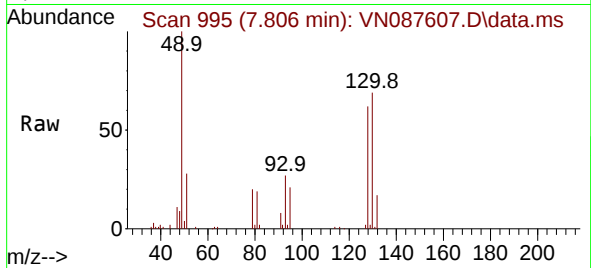




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 994
Delta R.T. 0.006 min
Lab File: VN087607.D
Acq: 20 Aug 2025 11:14

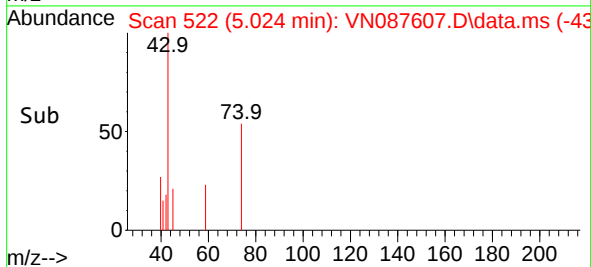
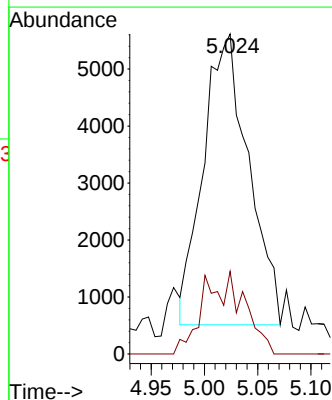
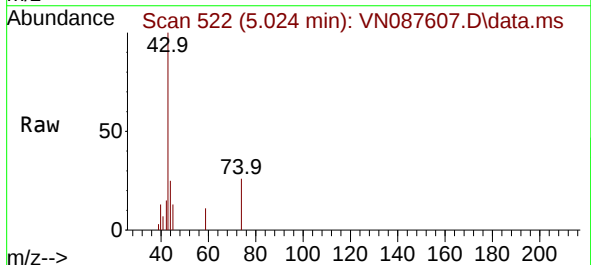
Instrument :
MSVOA_N
ClientSampleId :
OUTFALL-DSN-002

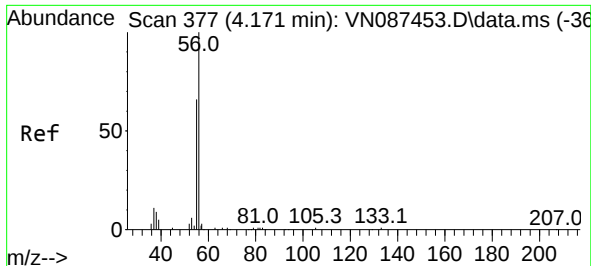
Tgt Ion	Ratio	Lower	Upper
128	100		
49	187.0	0.0	494.8
130	122.2	0.0	321.5



#12
Methyl Acetate
Concen: 2.777 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN087607.D
Acq: 20 Aug 2025 11:14

Tgt Ion	Ratio	Lower	Upper
43	100		
74	27.1	16.0	24.0#

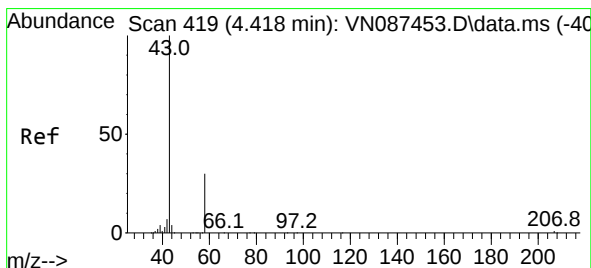
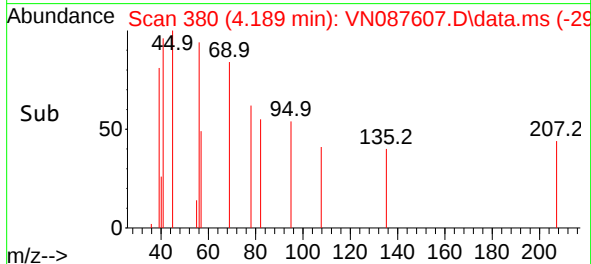
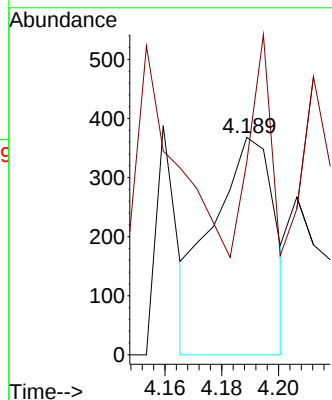
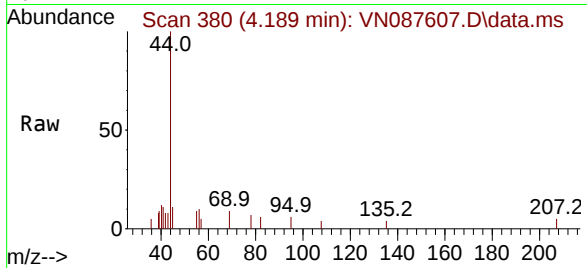




#13
Acrolein
Concen: 0.676 ug/l
RT: 4.189 min Scan# 31
Delta R.T. 0.018 min
Lab File: VN087607.D
Acq: 20 Aug 2025 11:14

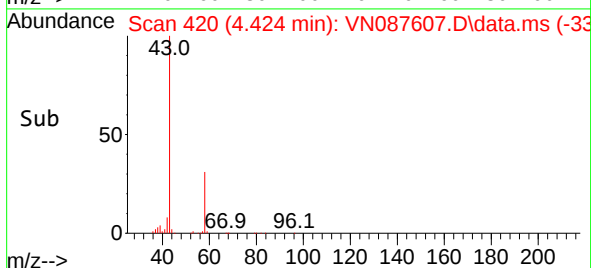
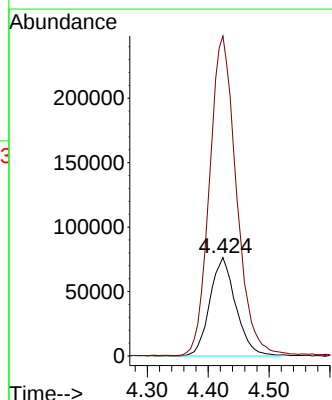
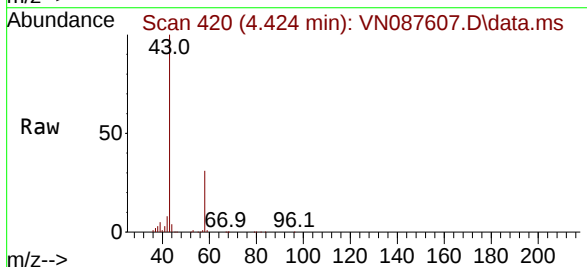
Instrument :
MSVOA_N
ClientSampleId :
OUTFALL-DSN-002

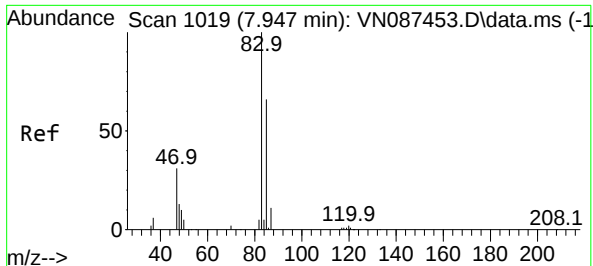
Tgt Ion: 56 Resp: 560
Ion Ratio Lower Upper
56 100
55 65.4 57.4 86.0



#15
Acetone
Concen: 333.809 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN087607.D
Acq: 20 Aug 2025 11:14

Tgt Ion: 58 Resp: 225836
Ion Ratio Lower Upper
58 100
43 324.5 268.9 403.3





#25

Chloroform

Concen: 18.843 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087607.D

Acq: 20 Aug 2025 11:14

Instrument :

MSVOA_N

ClientSampleId :

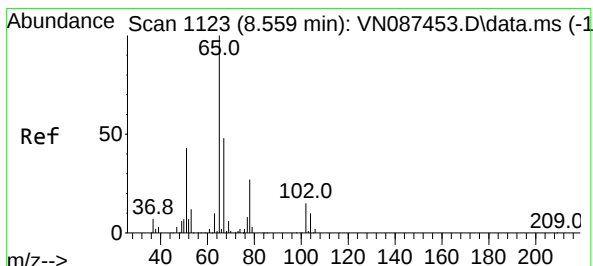
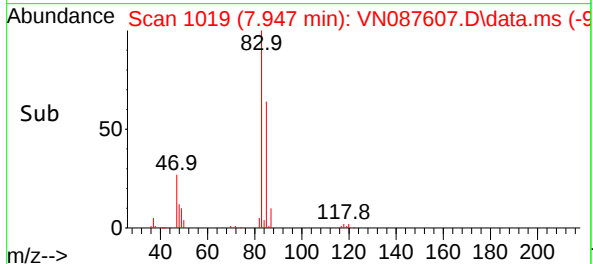
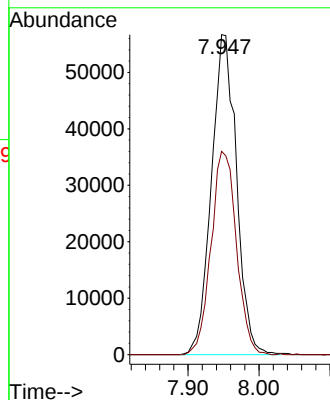
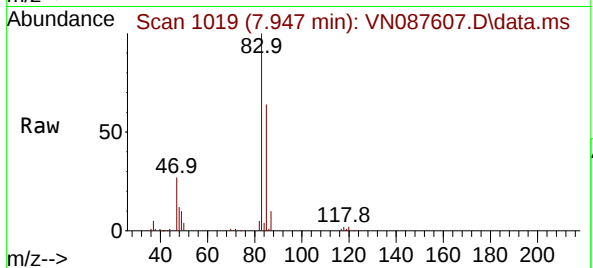
OUTFALL-DSN-002

Tgt Ion: 83 Resp: 138719

Ion Ratio Lower Upper

83 100

85 63.5 52.6 78.8



#27

1,2-Dichloroethane-d4

Concen: 29.596 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087607.D

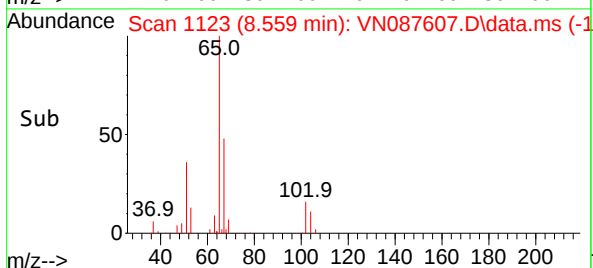
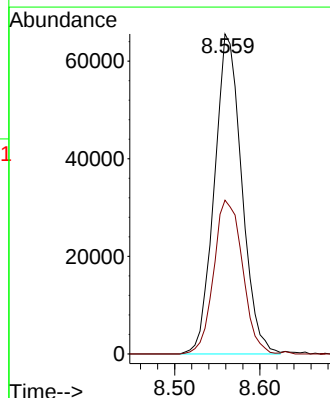
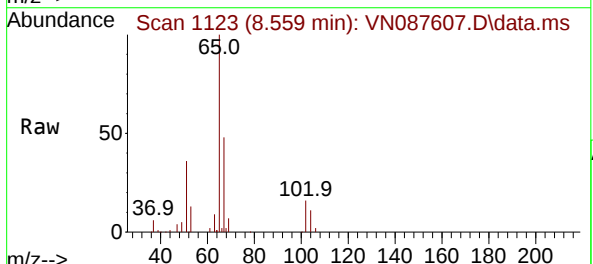
Acq: 20 Aug 2025 11:14

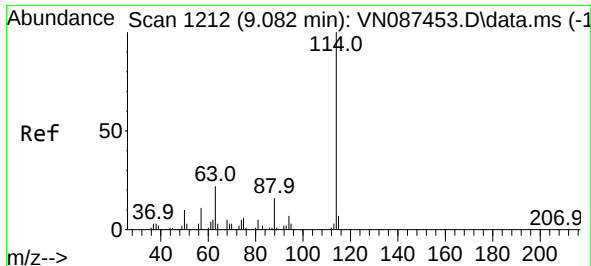
Tgt Ion: 65 Resp: 146454

Ion Ratio Lower Upper

65 100

67 50.4 40.8 61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087607.D

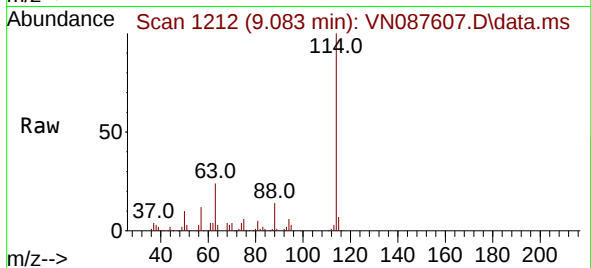
Acq: 20 Aug 2025 11:14

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL-DSN-002



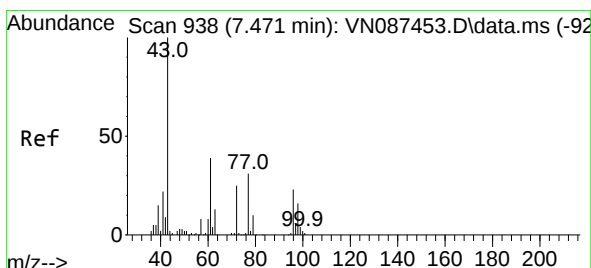
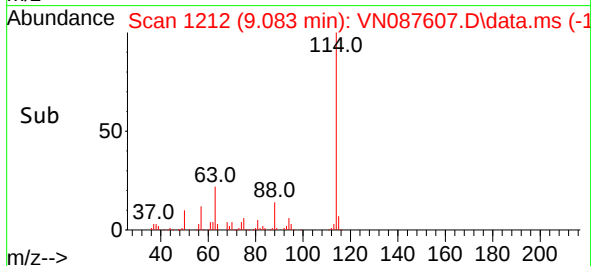
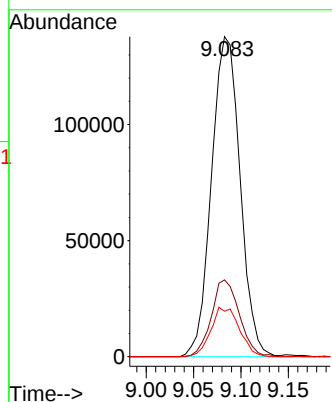
Tgt Ion:114 Resp: 289860

Ion Ratio Lower Upper

114 100

63 23.5 18.9 28.3

88 15.3 13.1 19.7



#30

2-Butanone

Concen: 0.738 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.012 min

Lab File: VN087607.D

Acq: 20 Aug 2025 11:14

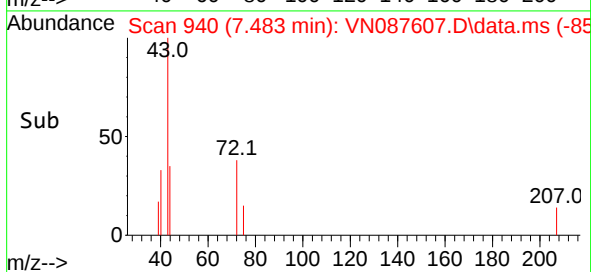
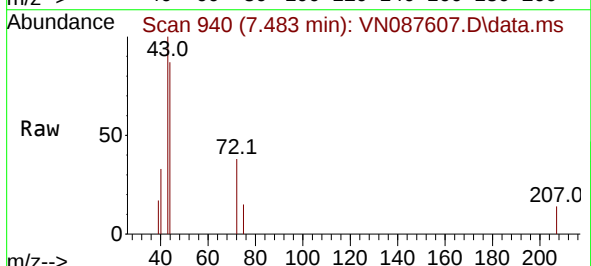
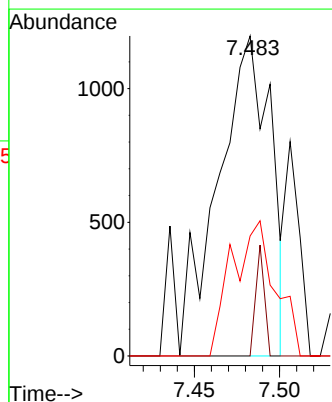
Tgt Ion: 43 Resp: 2572

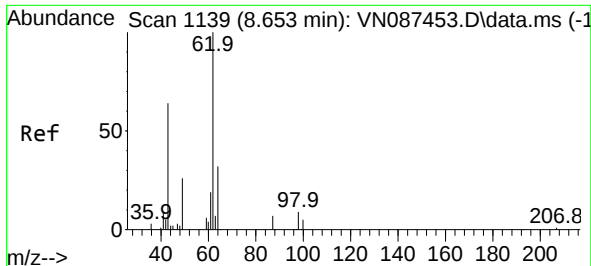
Ion Ratio Lower Upper

43 100

57 0.0 6.6 9.8#

72 11.3 19.7 29.5#





#36

1,2-Dichloroethane

Concen: 1.890 ug/l

RT: 9.088 min Scan# 1139

Delta R.T. 0.435 min

Lab File: VN087607.D

Acq: 20 Aug 2025 11:14

Instrument :

MSVOA_N

ClientSampleId :

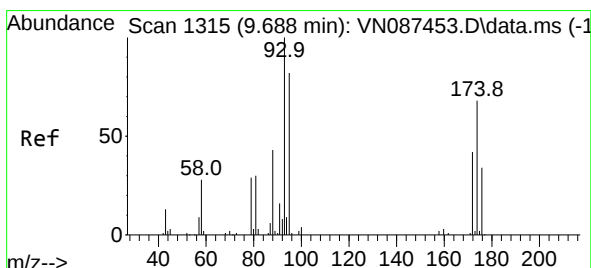
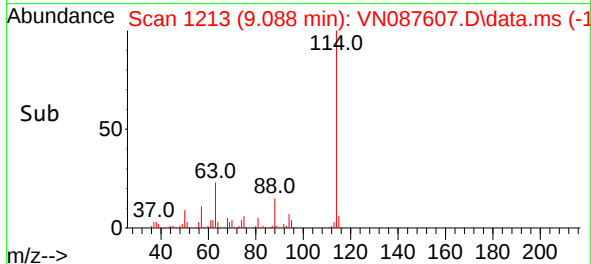
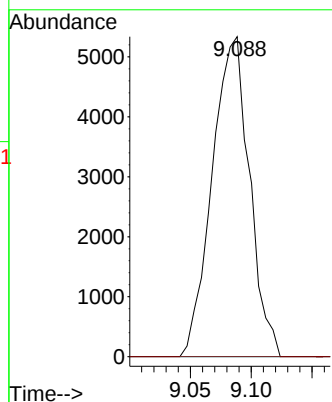
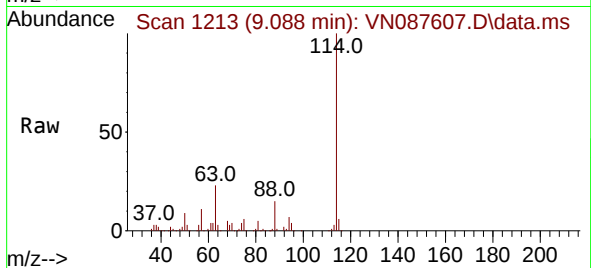
OUTFALL-DSN-002

Tgt Ion: 62 Resp: 11402

Ion Ratio Lower Upper

62 100

98 0.0 6.6 9.8#



#40

Dibromomethane

Concen: 0.268 ug/l

RT: 9.871 min Scan# 1346

Delta R.T. 0.182 min

Lab File: VN087607.D

Acq: 20 Aug 2025 11:14

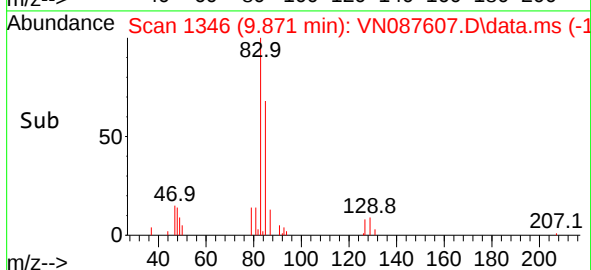
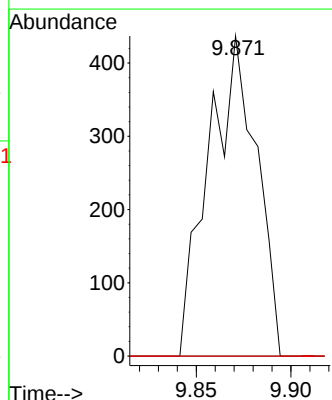
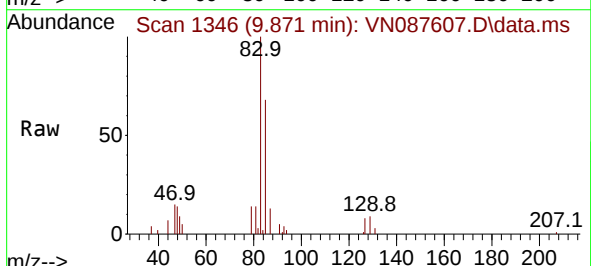
Tgt Ion: 93 Resp: 769

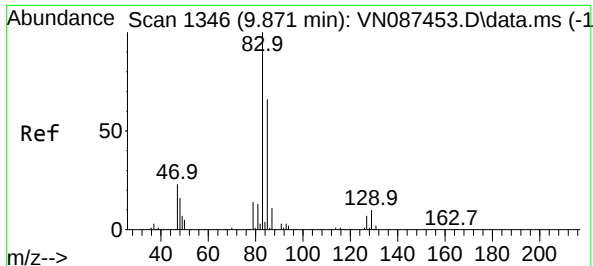
Ion Ratio Lower Upper

93 100

95 0.0 0.0 161.6

174 0.0 0.0 151.4

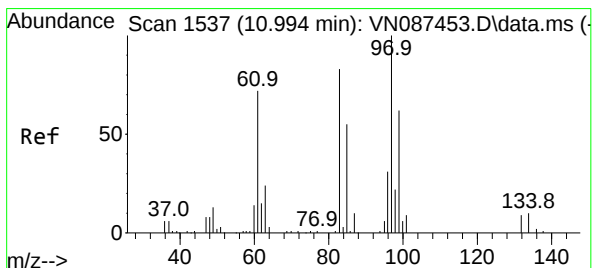
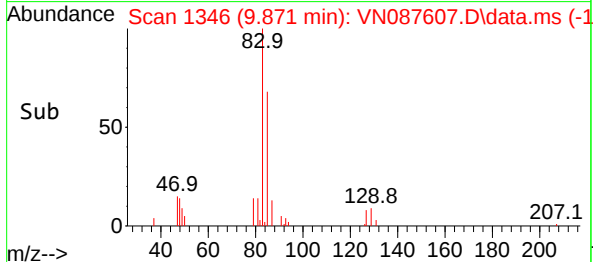
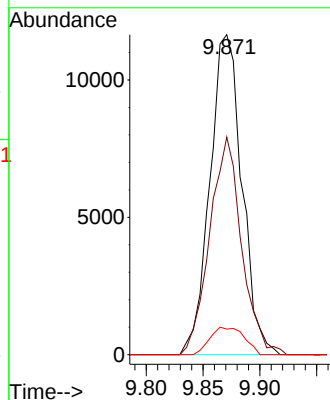
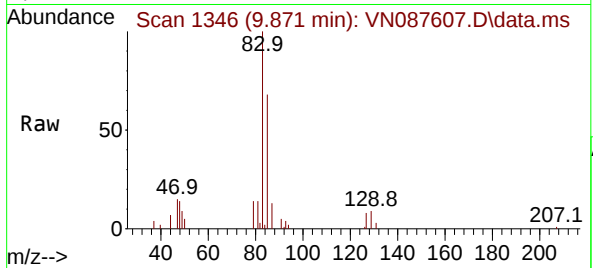




#41
Bromodichloromethane
Concen: 3.831 ug/l
RT: 9.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087607.D
Acq: 20 Aug 2025 11:14

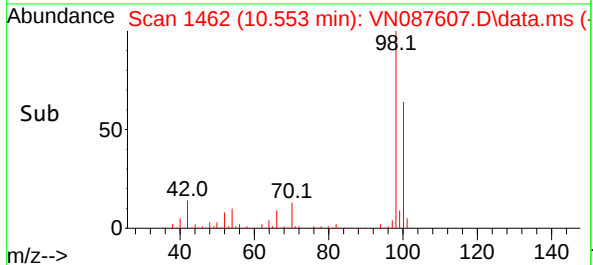
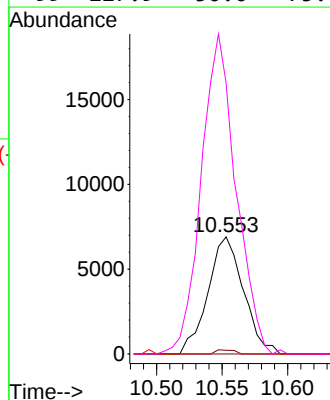
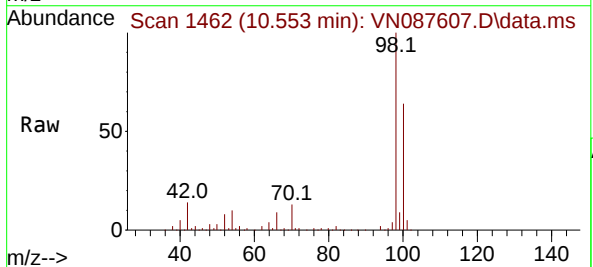
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OUTFALL-DSN-002

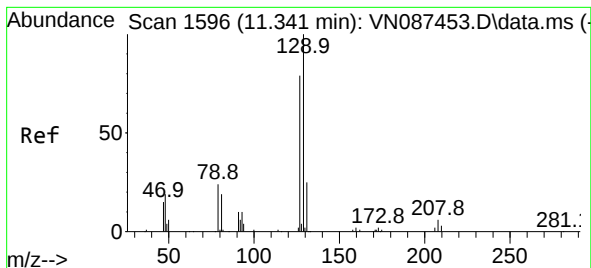
Tgt Ion: 83 Resp: 22851
Ion Ratio Lower Upper
83 100
85 68.0 52.9 79.3
127 8.0 5.8 8.6



#50
1,1,2-Trichloroethane
Concen: 3.589 ug/l
RT: 10.553 min Scan# 1462
Delta R.T. -0.441 min
Lab File: VN087607.D
Acq: 20 Aug 2025 11:14

Tgt Ion: 97 Resp: 13017
Ion Ratio Lower Upper
97 100
83 3.2 66.2 99.2#
85 0.0 43.9 65.9#
99 227.9 50.0 75.0#

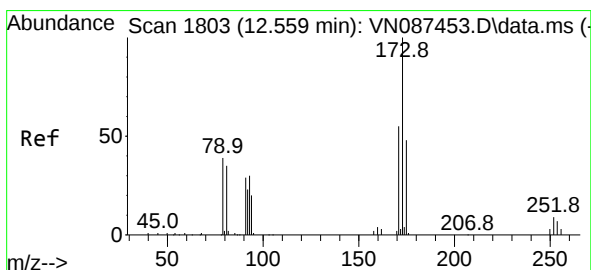
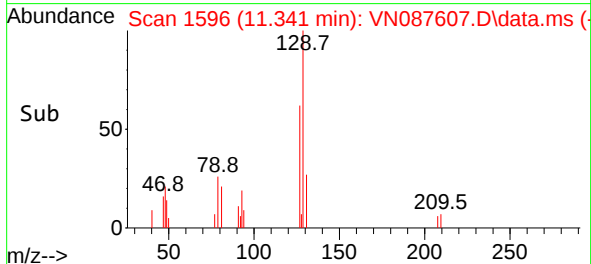
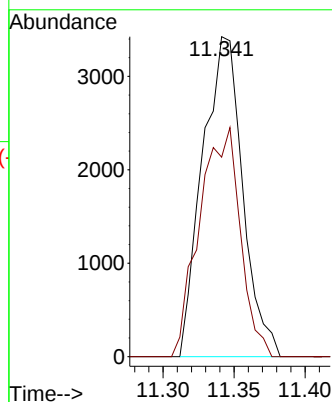
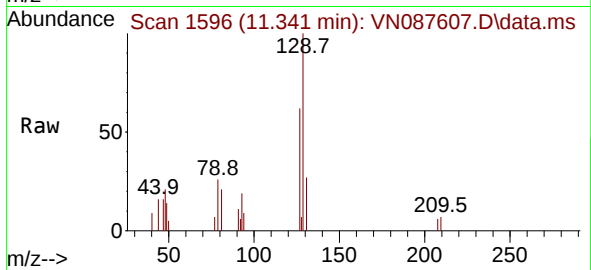




#53
Dibromochloromethane
Concen: 1.607 ug/l
RT: 11.341 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087607.D
Acq: 20 Aug 2025 11:14

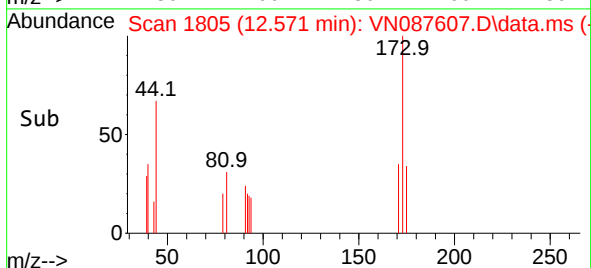
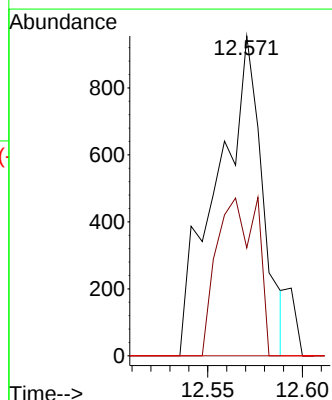
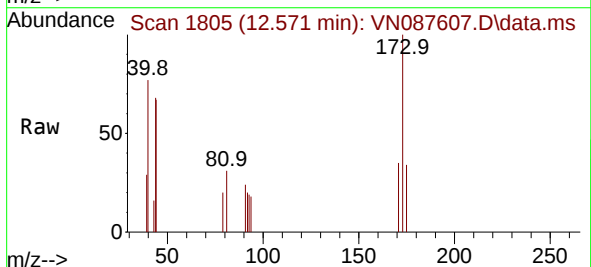
Instrument :
MSVOA_N
ClientSampleId :
OUTFALL-DSN-002

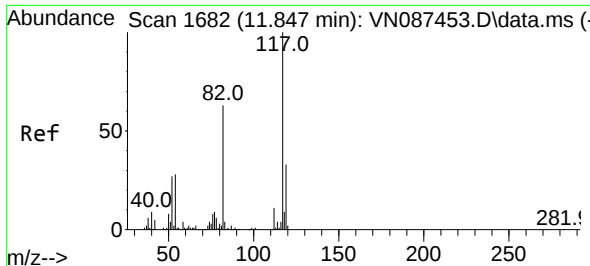
Tgt Ion:129 Resp: 6730
Ion Ratio Lower Upper
129 100
127 72.5 39.1 117.3



#56
Bromoform
Concen: 0.573 ug/l
RT: 12.571 min Scan# 1805
Delta R.T. 0.012 min
Lab File: VN087607.D
Acq: 20 Aug 2025 11:14

Tgt Ion:173 Resp: 1588
Ion Ratio Lower Upper
173 100
175 10.5 38.8 58.2#
254 0.0 3.9 5.9#

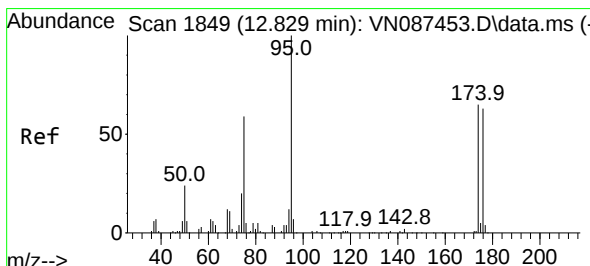
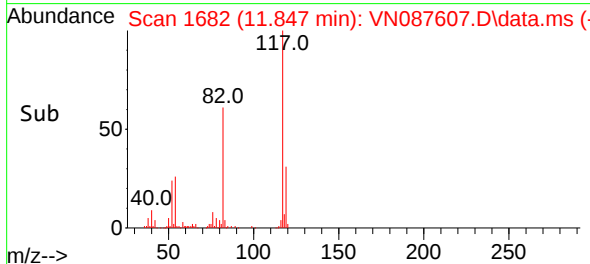
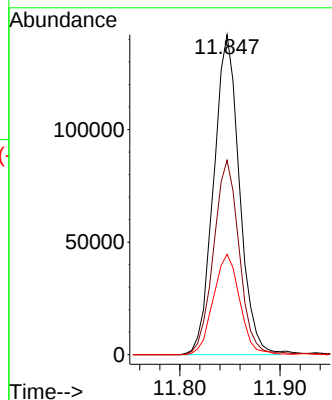
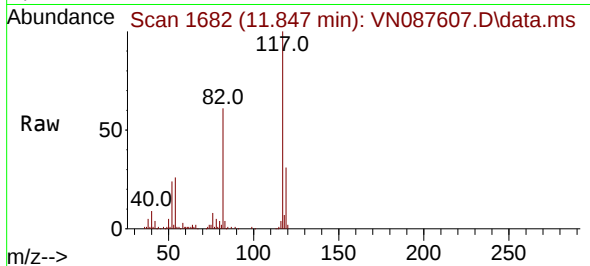




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1177
Delta R.T. 0.000 min
Lab File: VN087607.D
Acq: 20 Aug 2025 11:14

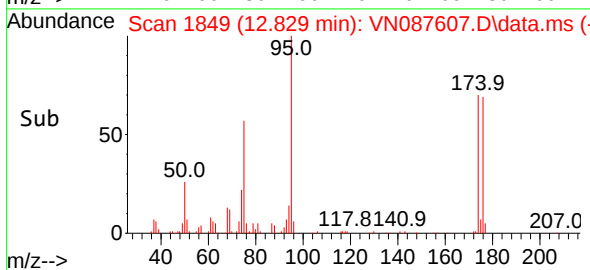
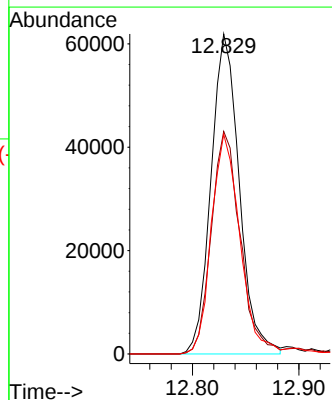
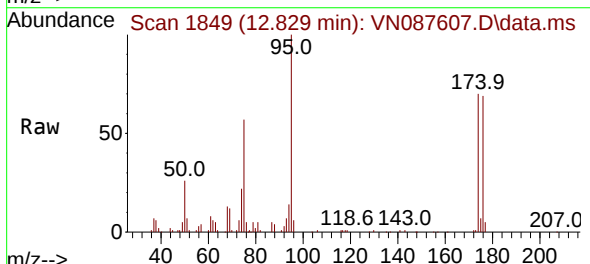
Instrument :
MSVOA_N
ClientSampleId :
OUTFALL-DSN-002

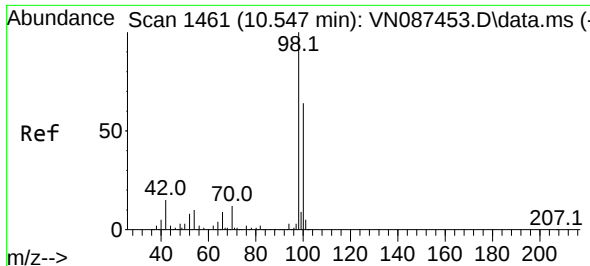
Tgt Ion:117 Resp: 254089
Ion Ratio Lower Upper
117 100
82 60.1 49.2 73.8
119 32.2 25.7 38.5



#60
4-Bromofluorobenzene
Concen: 26.074 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087607.D
Acq: 20 Aug 2025 11:14

Tgt Ion: 95 Resp: 114013
Ion Ratio Lower Upper
95 100
174 70.8 52.3 78.5
176 69.2 49.8 74.8

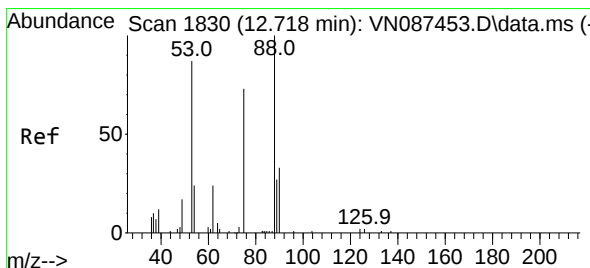
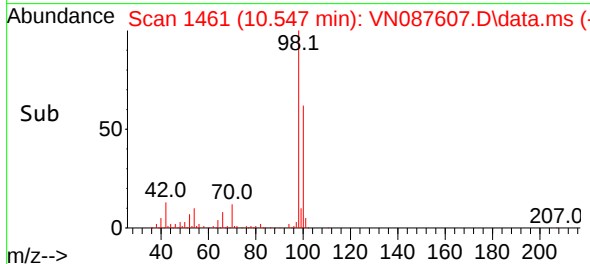
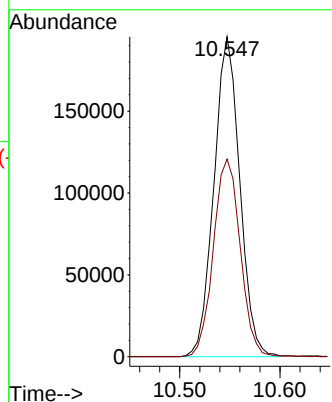
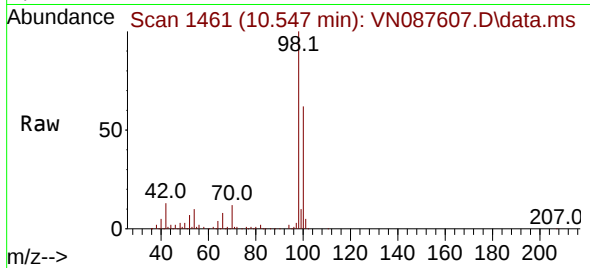




#63
Toluene-d8
Concen: 29.998 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087607.D
Acq: 20 Aug 2025 11:14

Instrument :
MSVOA_N
ClientSampleId :
OUTFALL-DSN-002

Tgt Ion: 98 Resp: 350710
Ion Ratio Lower Upper
98 100
100 64.0 50.5 75.7



#77
t-1,4-Dichloro-2-butene
Concen: 36.011 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087607.D
Acq: 20 Aug 2025 11:14

Tgt Ion: 75 Resp: 69778
Ion Ratio Lower Upper
75 100
53 0.0 59.0 176.8#
89 0.0 22.1 66.5#

