

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052925\
 Data File : VN086818.D
 Acq On : 29 May 2025 16:37
 Operator : JC\MD
 Sample : Q2098-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL-DSN-002

Quant Time: May 30 02:45:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 02:22:52 2025
 Response via : Initial Calibration

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

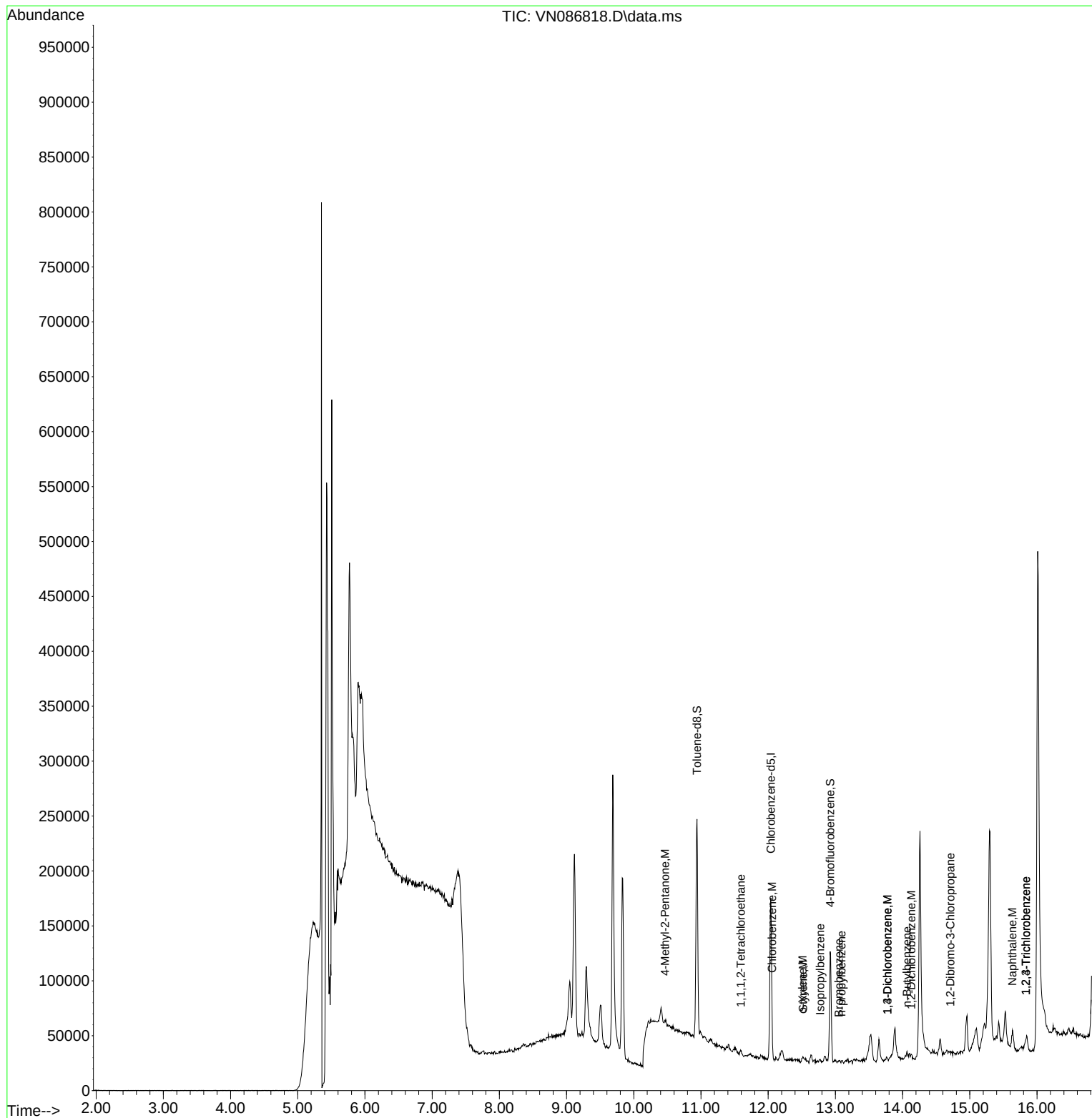
Internal Standards						
1) Bromochloromethane	0.000	128	0	0.000	ug/l	-7.81
28) 1,4-Difluorobenzene	0.000	114	0	0.000	ug/l	-9.10
57) Chlorobenzene-d5	12.041	117	90878	30.000	ug/l	0.18
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.982	65	122	0.000	ug/l	0.41
Spiked Amount	30.000	Range	91 - 110	Recovery	=	0.000%#
60) 4-Bromofluorobenzene	12.923	95	39452	27.651	ug/l	0.08
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.167%
63) Toluene-d8	10.941	98	140819	33.760	ug/l	0.38
Spiked Amount	30.000	Range	91 - 112	Recovery	=	112.533%#
Target Compounds						
					Qvalue	
58) 4-Methyl-2-Pentanone	10.465	43	5979	4.484	ug/l #	42
64) Chlorobenzene	12.059	112	895	0.274	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.594	131	256	0.239	ug/l #	7
68) o-Xylene	12.512	106	799	0.380	ug/l	52
69) Styrene	12.518	104	952	0.271	ug/l #	71
70) Isopropylbenzene	12.776	105	1573	0.314	ug/l #	78
73) Bromobenzene	13.053	156	321	0.258	ug/l #	45
74) n-propylbenzene	13.088	91	1593	0.269	ug/l	79
83) 1,3-Dichlorobenzene	13.776	146	854	0.374	ug/l	84
84) 1,4-Dichlorobenzene	13.776	146	854	0.376	ug/l	81
85) n-Butylbenzene	14.064	91	2521	0.731	ug/l #	57
87) 1,2-Dichlorobenzene	14.129	146	995	0.452	ug/l	74
88) 1,2-Dibromo-3-Chloropr...	14.711	75	64	0.255	ug/l #	3
89) 1,2,4-Trichlorobenzene	15.835	180	1144	1.241	ug/l #	57
91) Naphthalene	15.635	128	14886	4.628	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	1144	1.241	ug/l	57

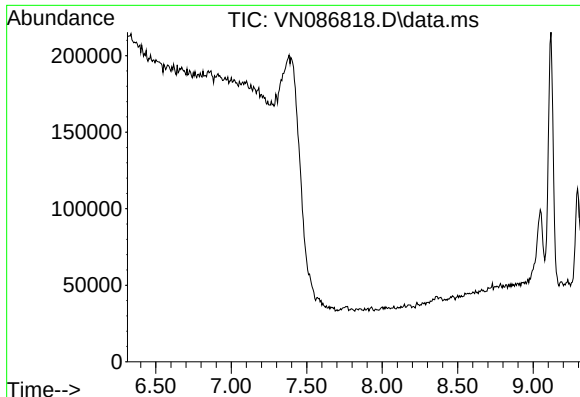
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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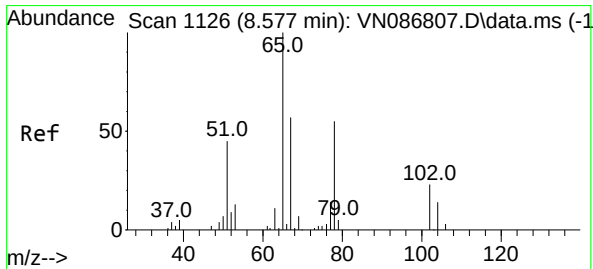
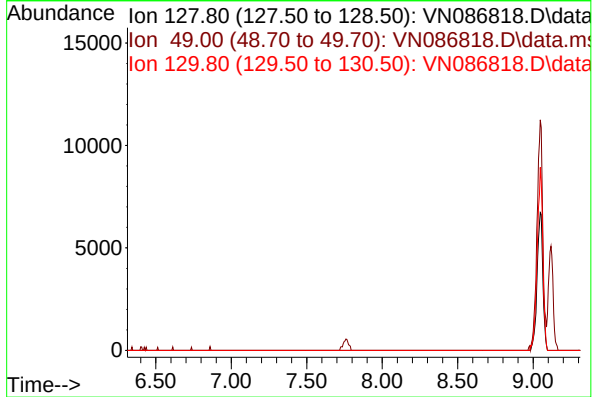


#1
 Bromochloromethane
 Concen: 0.000 ug/l
 Expected RT: 7.81 min
 Lab File: VN086818.D
 Acq: 29 May 2025 16:37

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL-DSN-002

Tgt Ion: 128

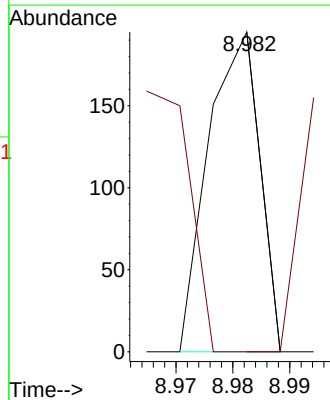
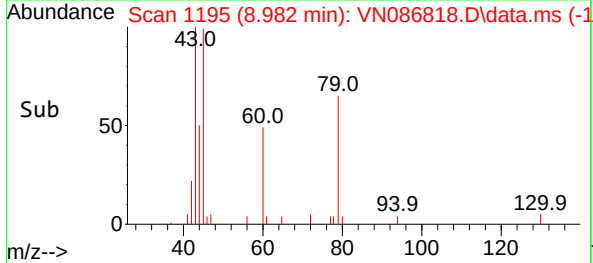
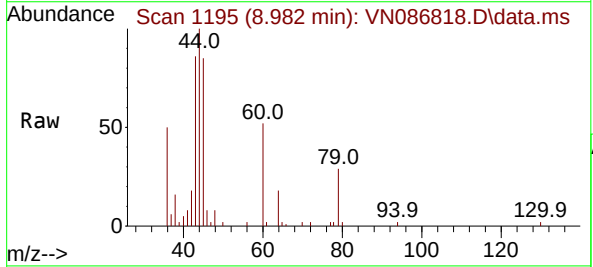
Sig	Exp Ratio
128	100
49	161.8
130	128.9

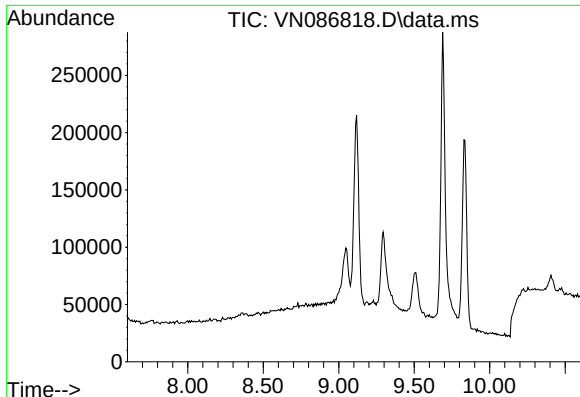


#27
 1,2-Dichloroethane-d4
 Concen: 0.000 ug/l
 RT: 8.982 min Scan# 1195
 Delta R.T. 0.406 min
 Lab File: VN086818.D
 Acq: 29 May 2025 16:37

Tgt Ion: 65 Resp: 122

Ion	Ratio	Lower	Upper
65	100		
67	45.1	44.6	67.0



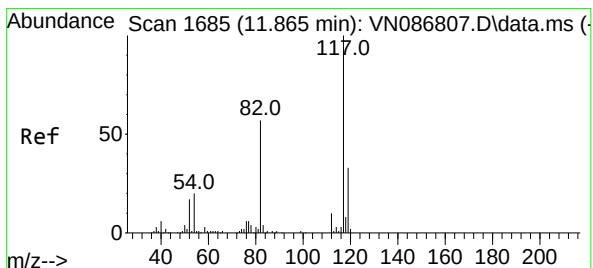
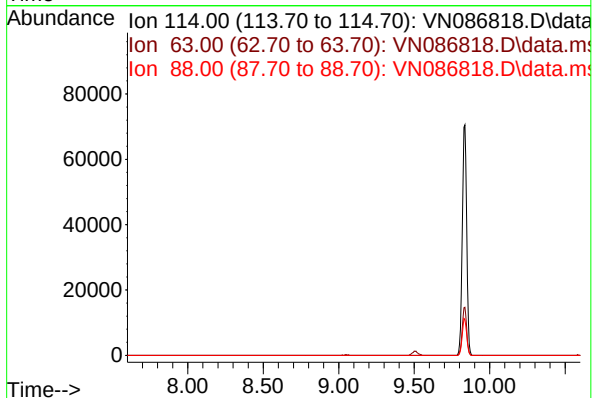


#28
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 9.10 min
 Lab File: VN086818.D
 Acq: 29 May 2025 16:37

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL-DSN-002

Tgt Ion: 114

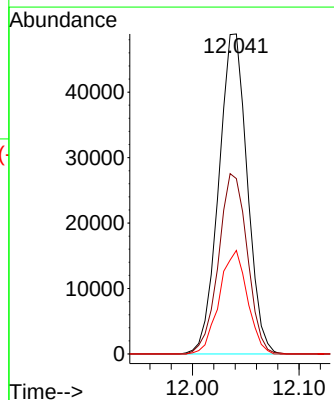
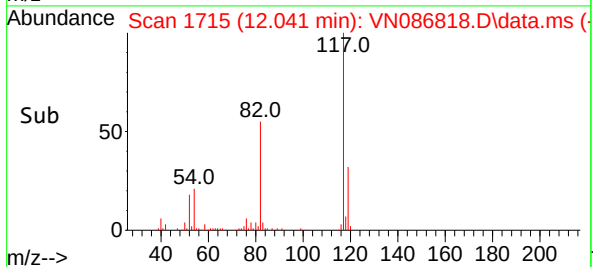
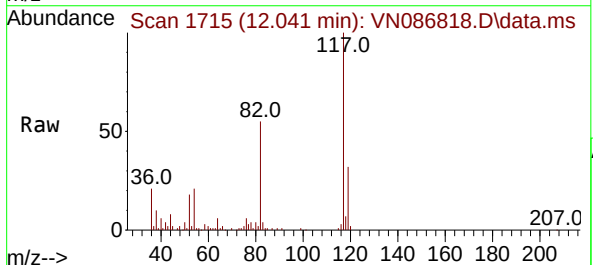
Sig	Exp Ratio
114	100
63	19.8
88	16.1

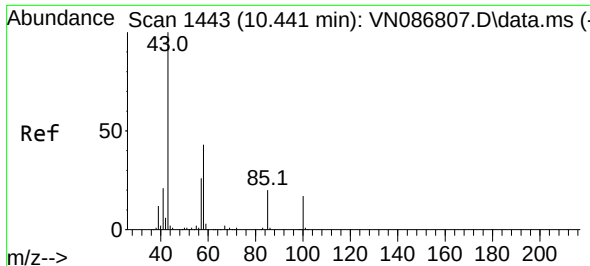


#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 12.041 min Scan# 1715
 Delta R.T. 0.176 min
 Lab File: VN086818.D
 Acq: 29 May 2025 16:37

Tgt Ion: 117 Resp: 90878

Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.7	67.1
119	31.8	25.6	38.4

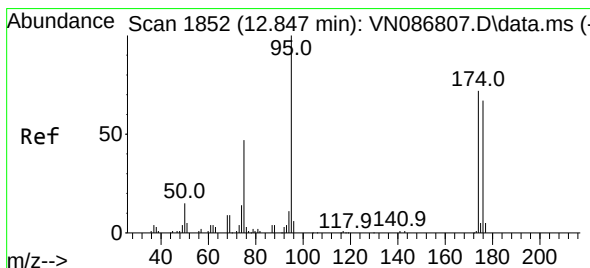
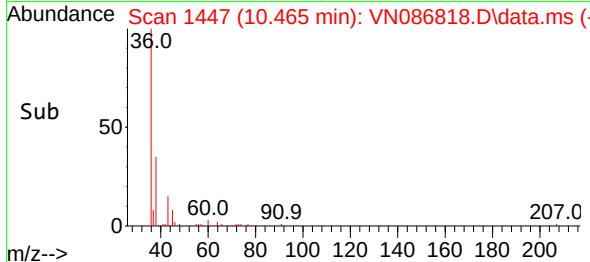
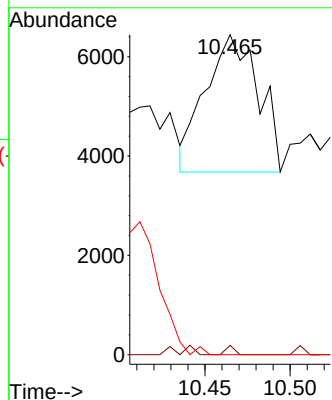
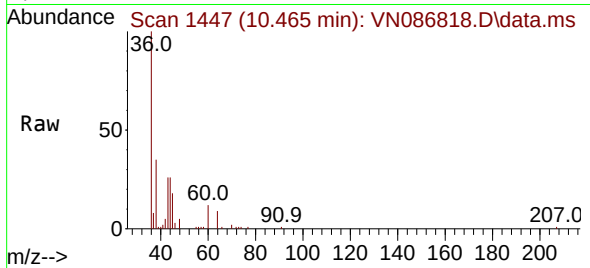




#58
4-Methyl-2-Pentanone
Concen: 4.484 ug/l
RT: 10.465 min Scan# 1447
Delta R.T. 0.023 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

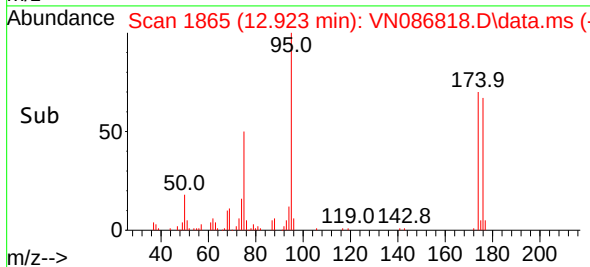
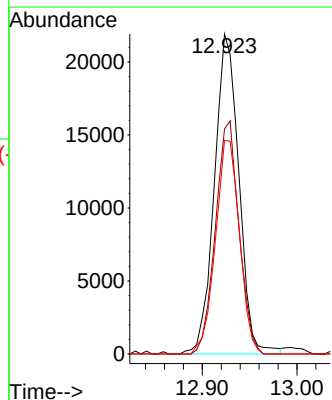
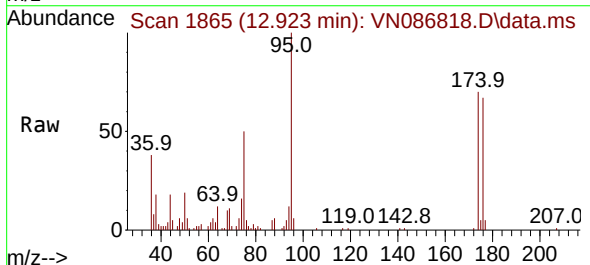
Instrument :
MSVOA_N
ClientSampleId :
OUTFALL-DSN-002

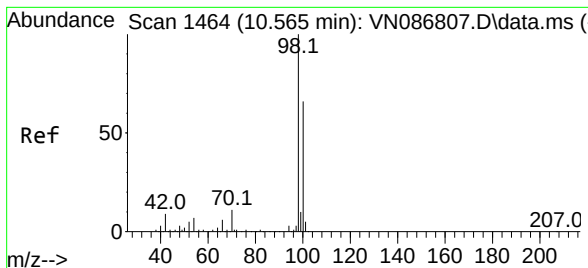
Tgt Ion: 43 Resp: 5979
Ion Ratio Lower Upper
43 100
58 1.1 34.5 51.7#
85 1.0 15.8 23.8#



#60
4-Bromofluorobenzene
Concen: 27.651 ug/l
RT: 12.923 min Scan# 1865
Delta R.T. 0.076 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

Tgt Ion: 95 Resp: 39452
Ion Ratio Lower Upper
95 100
174 69.8 56.2 84.4
176 65.4 53.4 80.0





#63

Toluene-d8

Concen: 33.760 ug/l

RT: 10.941 min Scan# 11

Delta R.T. 0.376 min

Lab File: VN086818.D

Acq: 29 May 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

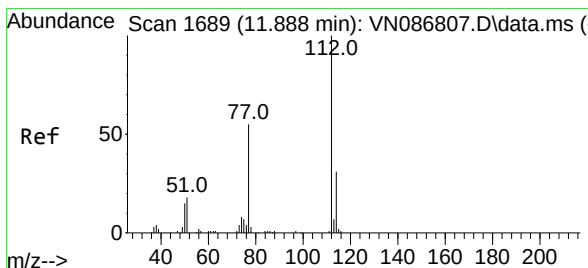
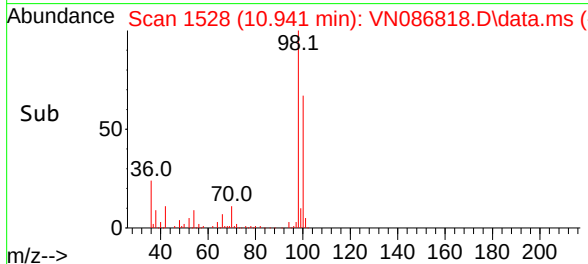
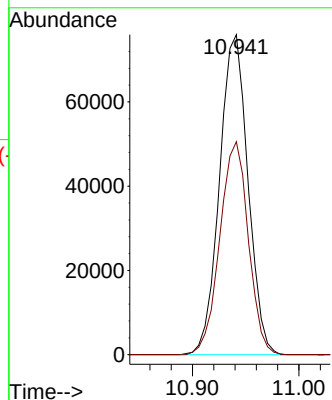
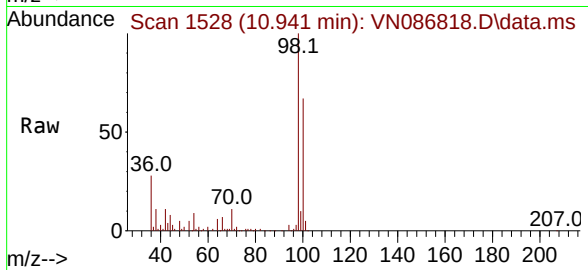
OUTFALL-DSN-002

Tgt Ion: 98 Resp: 140819

Ion Ratio Lower Upper

98 100

100 66.7 52.7 79.1



#64

Chlorobenzene

Concen: 0.274 ug/l

RT: 12.059 min Scan# 1718

Delta R.T. 0.171 min

Lab File: VN086818.D

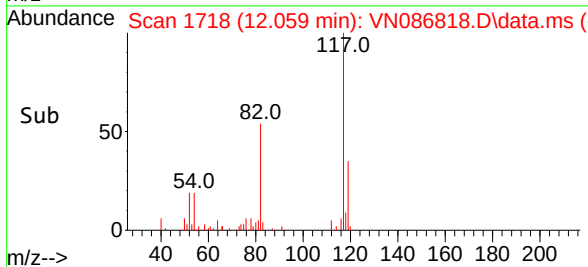
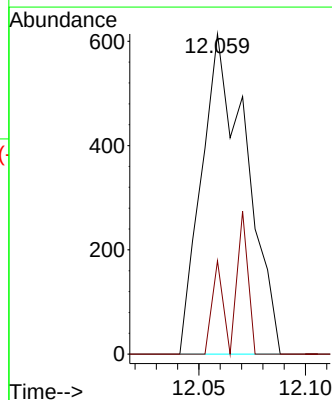
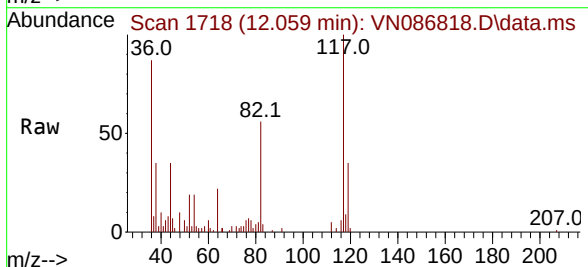
Acq: 29 May 2025 16:37

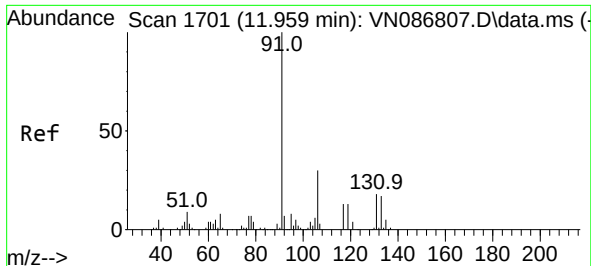
Tgt Ion:112 Resp: 895

Ion Ratio Lower Upper

112 100

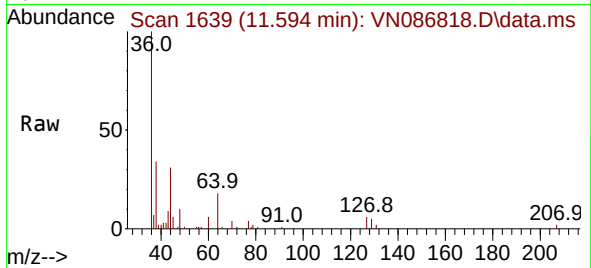
114 29.2 25.1 37.7



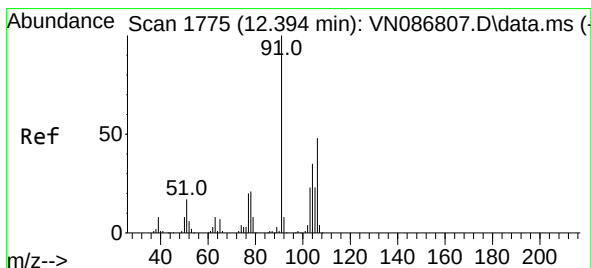
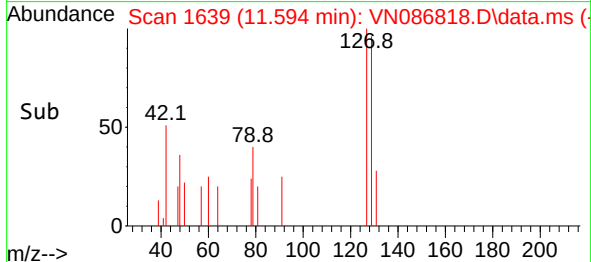
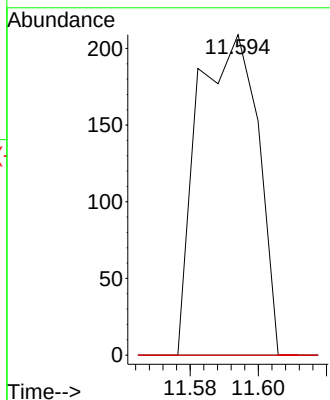


#65
1,1,1,2-Tetrachloroethane
Concen: 0.239 ug/l
RT: 11.594 min Scan# 11
Delta R.T. -0.365 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :
OUTFALL-DSN-002

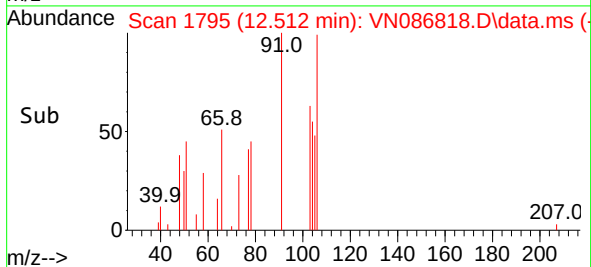
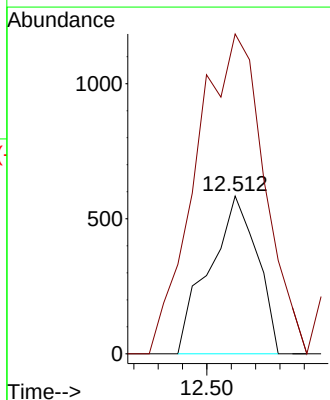
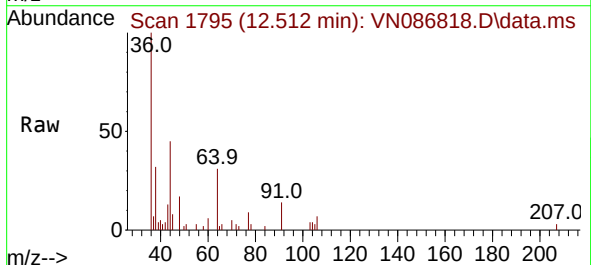


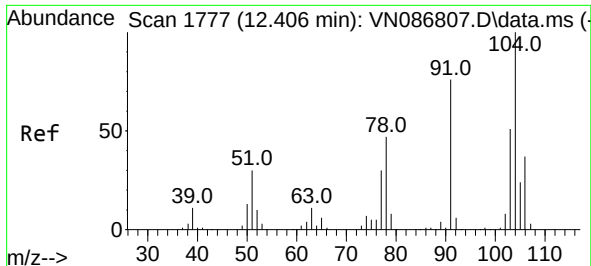
Tgt Ion:131 Resp: 256
Ion Ratio Lower Upper
131 100
133 0.0 0.0 191.0
119 0.0 0.0 140.8



#68
o-Xylene
Concen: 0.380 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. 0.118 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

Tgt Ion:106 Resp: 799
Ion Ratio Lower Upper
106 100
91 288.6 106.3 318.9

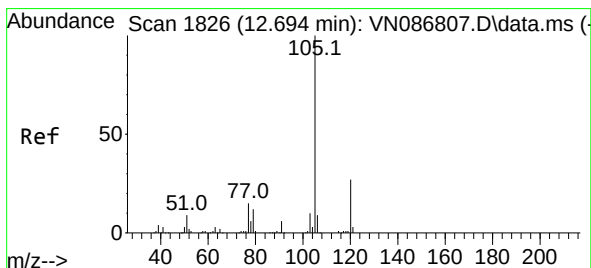
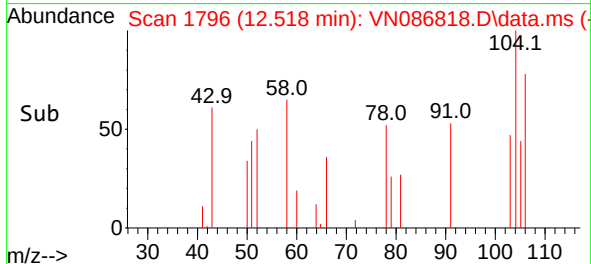
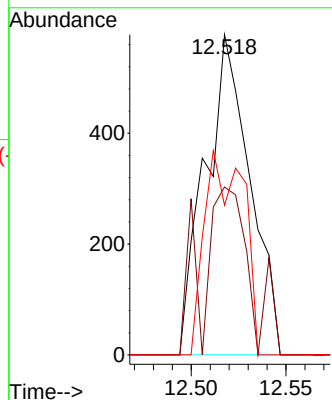
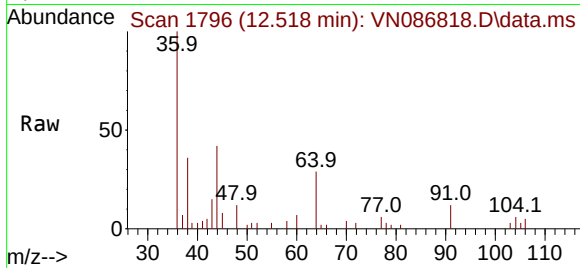




#69
Styrene
Concen: 0.271 ug/l
RT: 12.518 min Scan# 1796
Delta R.T. 0.112 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

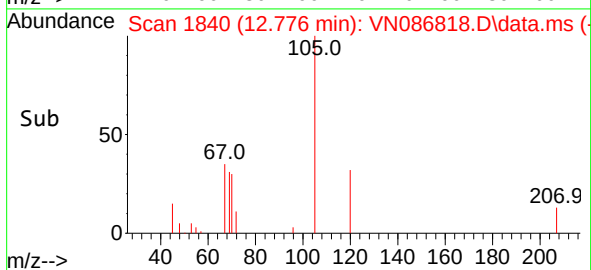
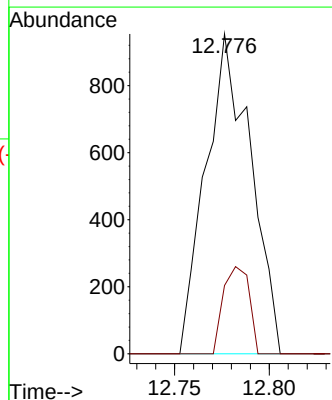
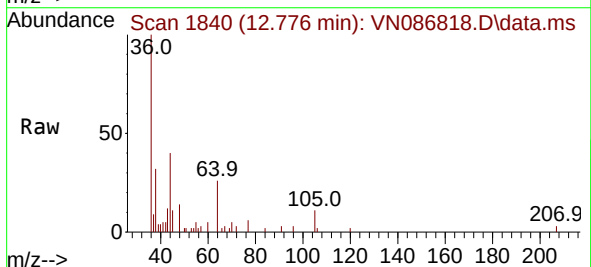
Instrument :
MSVOA_N
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OUTFALL-DSN-002

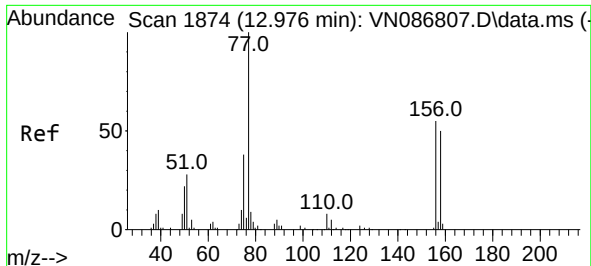
Tgt Ion:104 Resp: 952
Ion Ratio Lower Upper
104 100
78 38.8 38.6 57.8
103 23.9 43.2 64.8#



#70
Isopropylbenzene
Concen: 0.314 ug/l
RT: 12.776 min Scan# 1840
Delta R.T. 0.082 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

Tgt Ion:105 Resp: 1573
Ion Ratio Lower Upper
105 100
120 15.7 19.0 35.2#

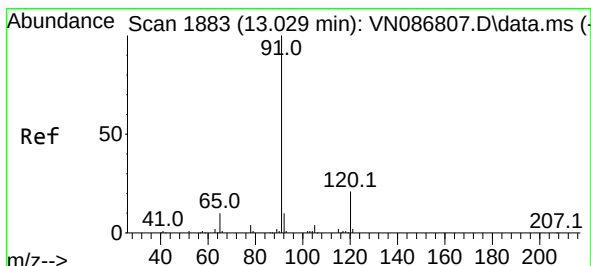
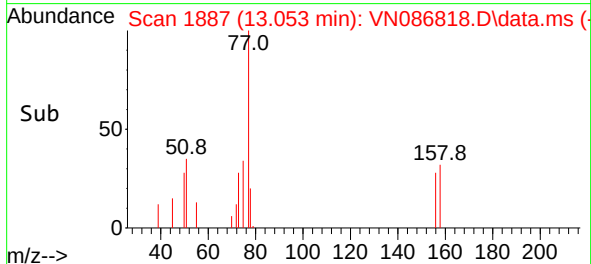
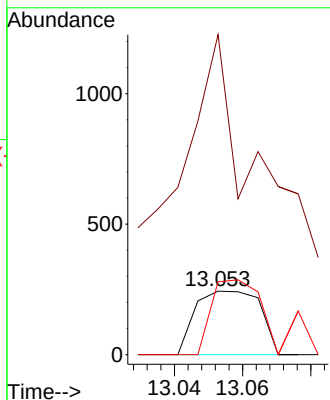
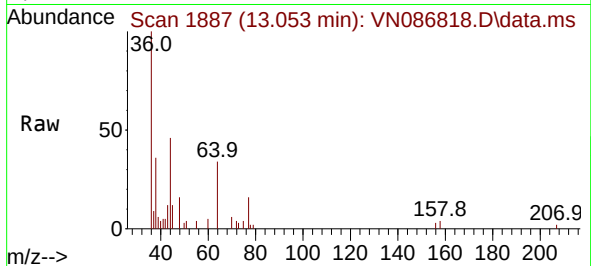




#73
Bromobenzene
Concen: 0.258 ug/l
RT: 13.053 min Scan# 1887
Delta R.T. 0.076 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

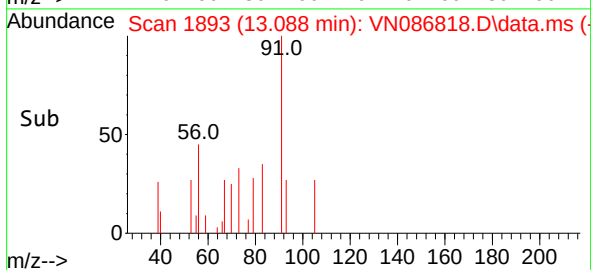
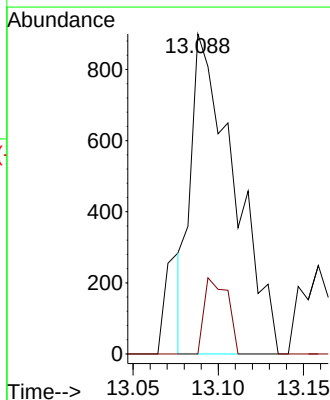
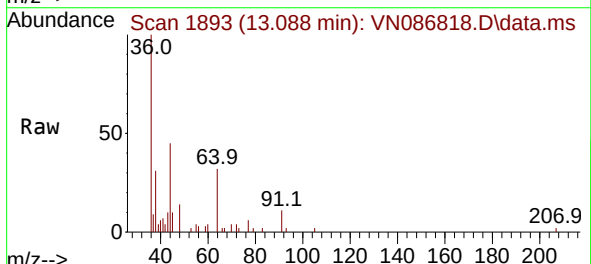
Instrument :
MSVOA_N
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OUTFALL-DSN-002

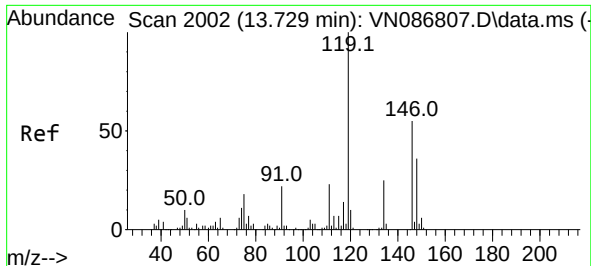
Tgt Ion:156 Resp: 321
Ion Ratio Lower Upper
156 100
77 163.6 0.0 442.0
158 0.0 0.0 191.8



#74
n-propylbenzene
Concen: 0.269 ug/l
RT: 13.088 min Scan# 1893
Delta R.T. 0.059 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

Tgt Ion: 91 Resp: 1593
Ion Ratio Lower Upper
91 100
120 12.7 0.0 45.6

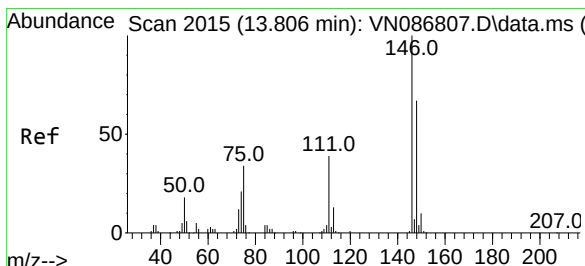
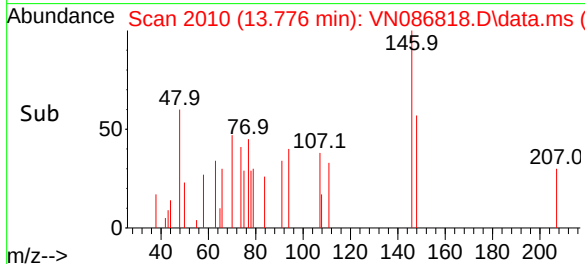
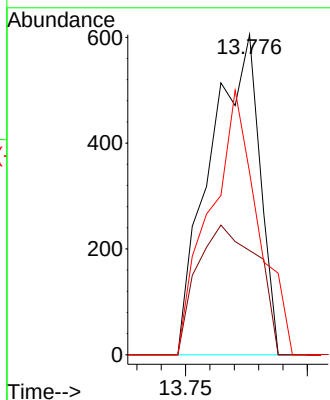
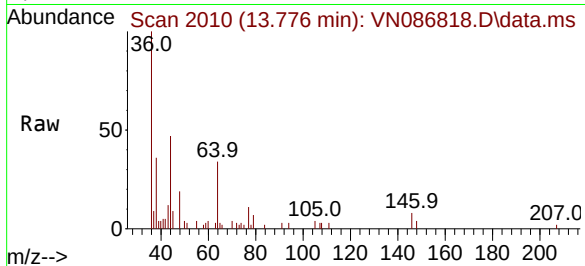




#83
1,3-Dichlorobenzene
Concen: 0.374 ug/l
RT: 13.776 min Scan# 2010
Delta R.T. 0.047 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

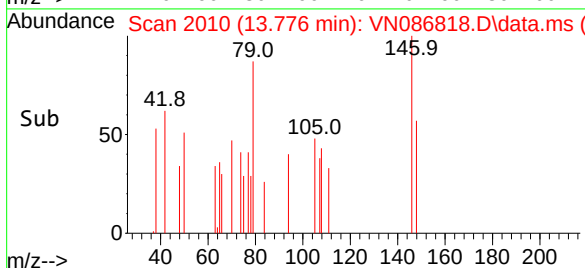
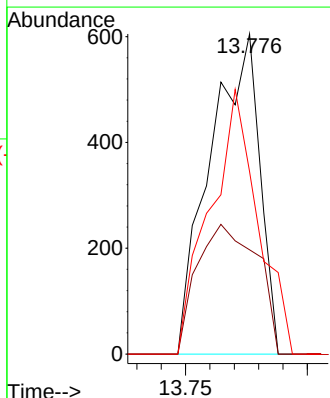
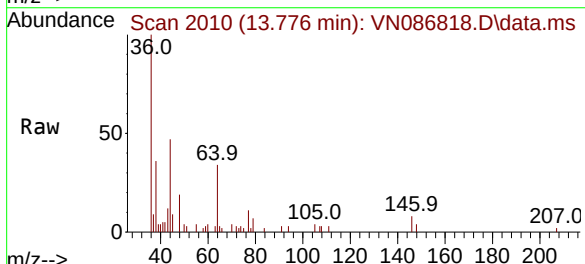
Instrument :
MSVOA_N
ClientSampleId :
OUTFALL-DSN-002

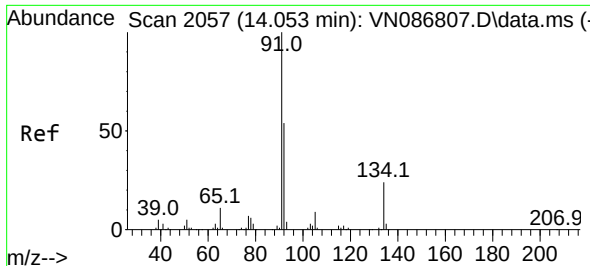
Tgt Ion:146 Resp: 854
Ion Ratio Lower Upper
146 100
111 49.2 21.1 63.1
148 79.6 32.1 96.5



#84
1,4-Dichlorobenzene
Concen: 0.376 ug/l
RT: 13.776 min Scan# 2010
Delta R.T. -0.029 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

Tgt Ion:146 Resp: 854
Ion Ratio Lower Upper
146 100
111 49.2 19.8 59.4
148 79.6 31.9 95.5

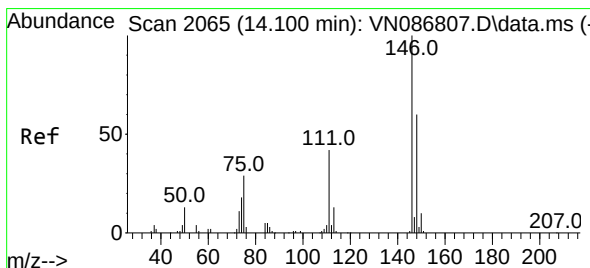
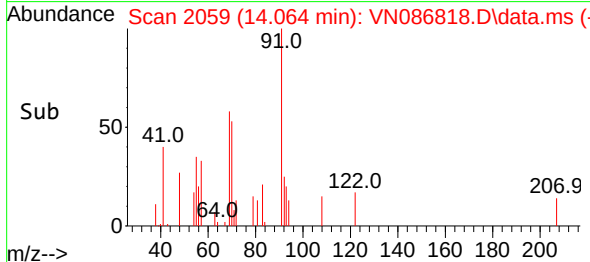
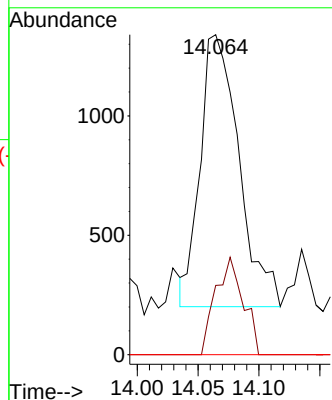
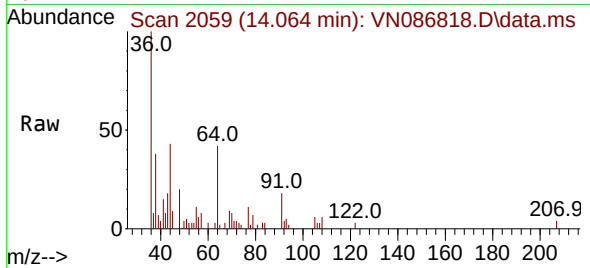




#85
n-Butylbenzene
Concen: 0.731 ug/l
RT: 14.064 min Scan# 2059
Delta R.T. 0.012 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

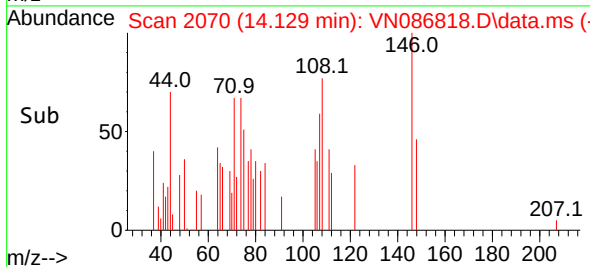
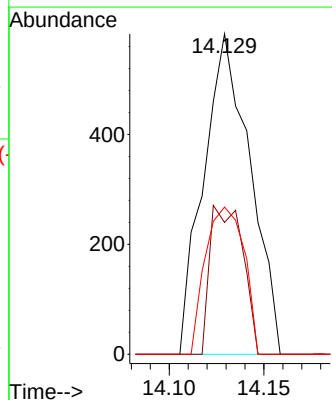
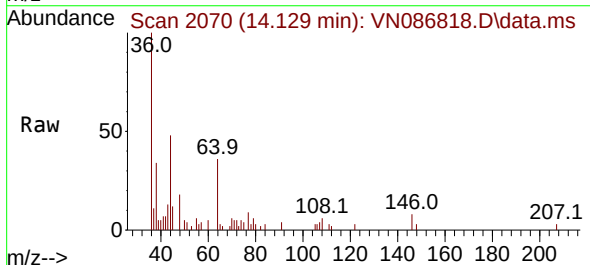
Instrument :
MSVOA_N
ClientSampleId :
OUTFALL-DSN-002

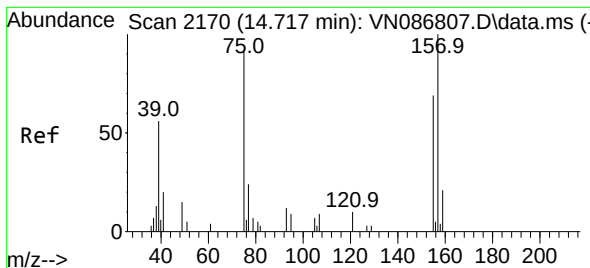
Tgt Ion: 91 Resp: 2521
Ion Ratio Lower Upper
91 100
92 25.6 0.0 107.6
134 0.0 0.0 50.0



#87
1,2-Dichlorobenzene
Concen: 0.452 ug/l
RT: 14.129 min Scan# 2070
Delta R.T. 0.029 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

Tgt Ion: 146 Resp: 995
Ion Ratio Lower Upper
146 100
111 32.8 21.6 64.8
148 38.3 31.6 94.7

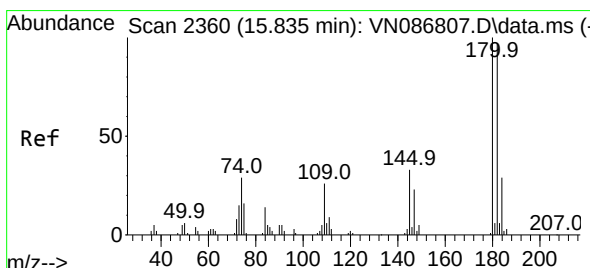
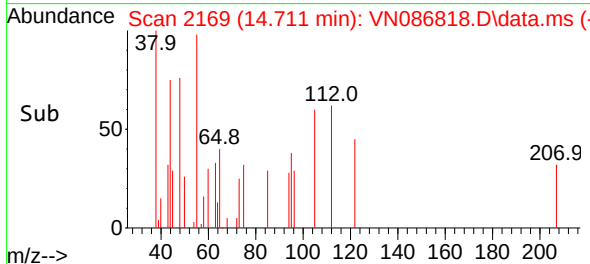
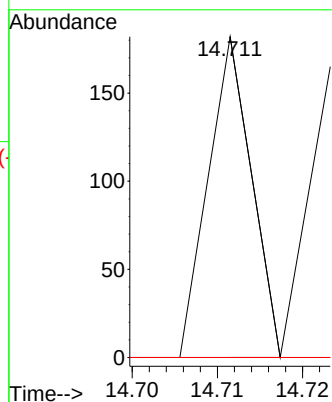
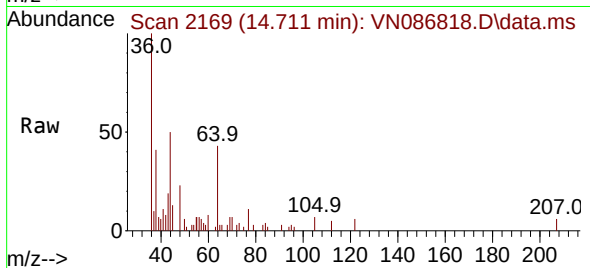




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.255 ug/l
 RT: 14.711 min Scan# 2169
 Delta R.T. -0.006 min
 Lab File: VN086818.D
 Acq: 29 May 2025 16:37

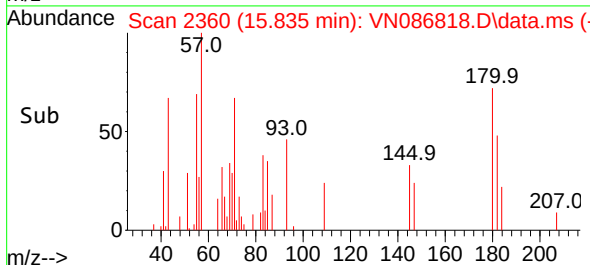
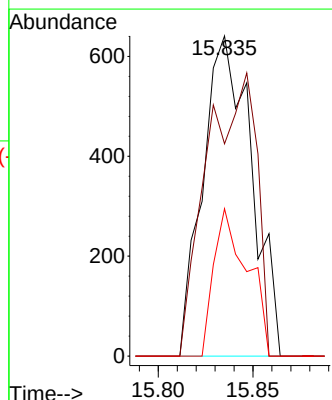
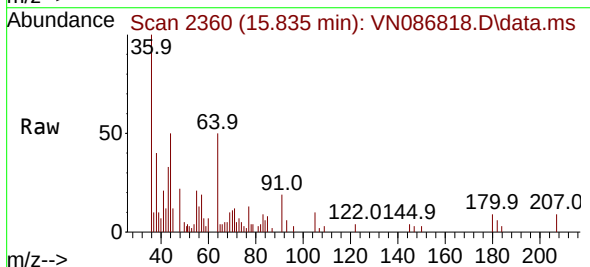
Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL-DSN-002

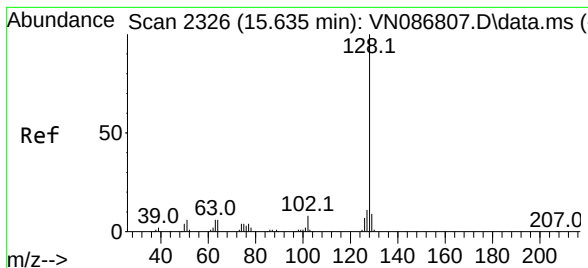
Tgt Ion: 75 Resp: 64
 Ion Ratio Lower Upper
 75 100
 155 0.0 62.9 94.3#
 157 0.0 84.0 126.0#



#89
 1,2,4-Trichlorobenzene
 Concen: 1.241 ug/l
 RT: 15.835 min Scan# 2360
 Delta R.T. -0.000 min
 Lab File: VN086818.D
 Acq: 29 May 2025 16:37

Tgt Ion: 180 Resp: 1144
 Ion Ratio Lower Upper
 180 100
 182 44.9 78.2 117.2#
 145 26.2 28.0 42.0#

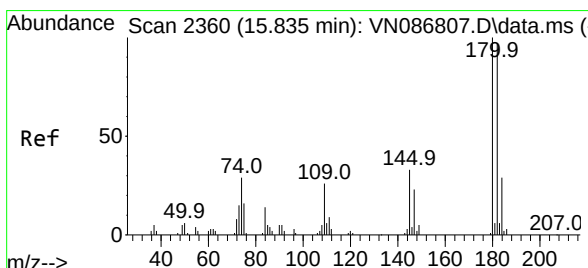
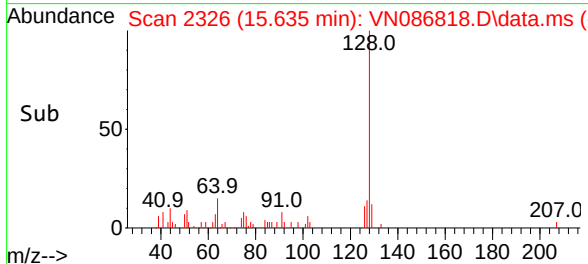
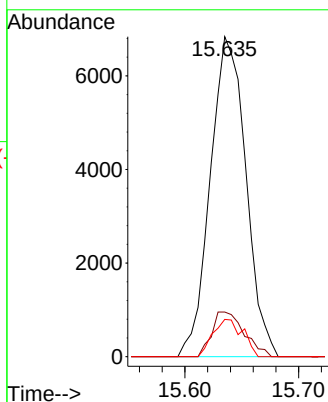
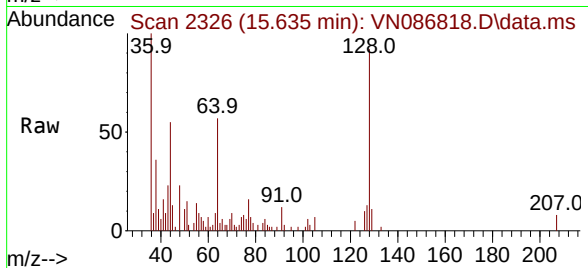




#91
Naphthalene
Concen: 4.628 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :
OUTFALL-DSN-002

Tgt Ion:	128	Resp:	14886
Ion Ratio	Lower	Upper	
128	100		
127	12.7	9.8	14.6
129	9.8	8.6	13.0



#92
1,2,3-Trichlorobenzene
Concen: 1.241 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086818.D
Acq: 29 May 2025 16:37

Tgt Ion:	180	Resp:	1144
Ion Ratio	Lower	Upper	
180	100		
182	44.9	0.0	195.4
145	26.2	0.0	70.0

