

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088120.D
 Acq On : 27 Oct 2025 17:19
 Operator : JC\MD
 Sample : Q3426-04 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW2

Quant Time: Oct 28 01:30:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

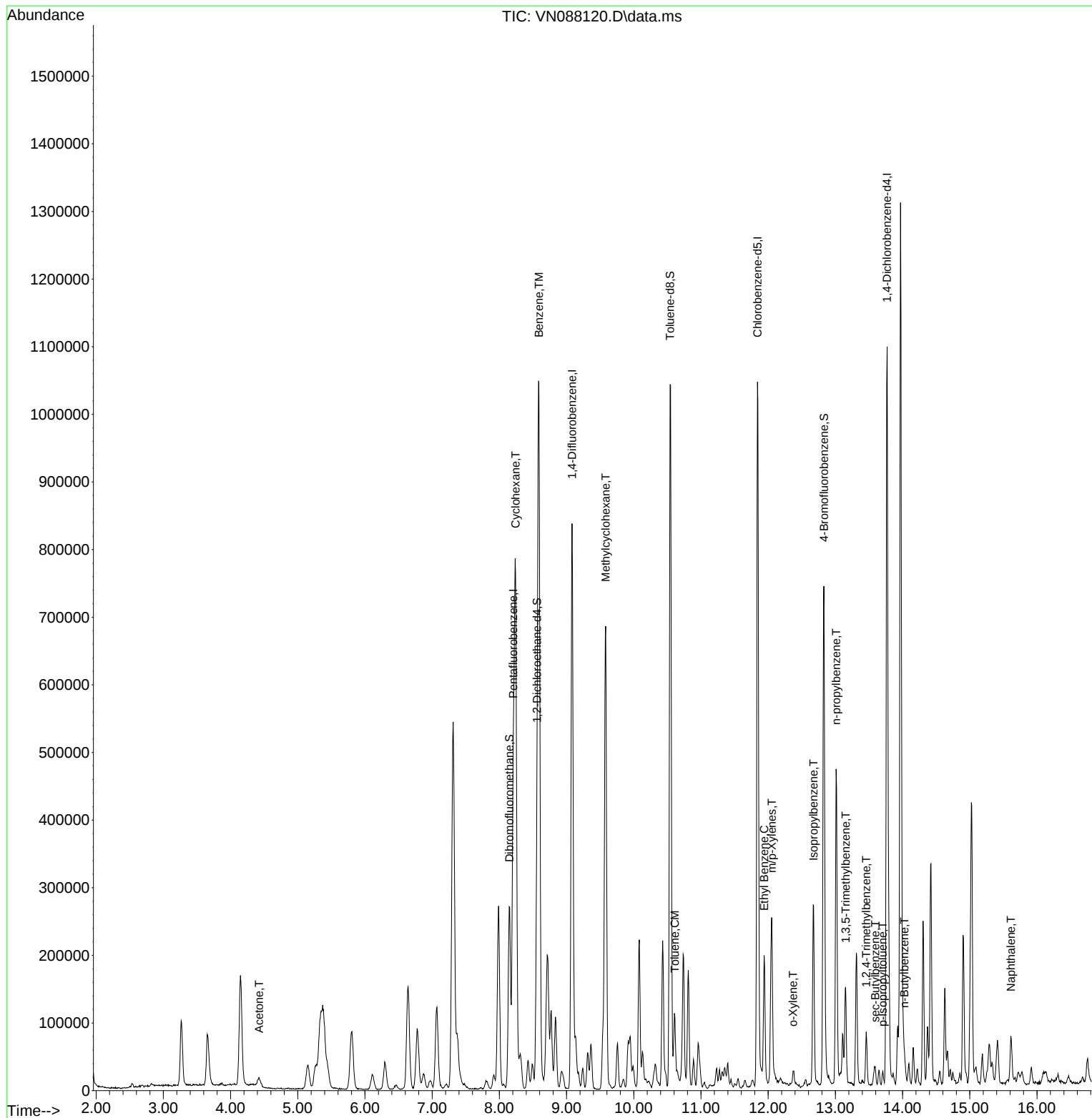
Internal Standards						
1) Pentafluorobenzene	8.206	168	257811	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	580168	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	561441	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	281349	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	269979	60.559	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 121.120%		
35) Dibromofluoromethane	8.147	113	190513	48.880	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 97.760%		
50) Toluene-d8	10.541	98	687552	45.782	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 91.560%		
62) 4-Bromofluorobenzene	12.829	95	278511	52.511	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 105.020%		
Target Compounds						
					Qvalue	
16) Acetone	4.424	43	17419	7.777	ug/l	90
31) Cyclohexane	8.241	56	422101	67.640	ug/l	98
39) Methylcyclohexane	9.582	83	283403	38.743	ug/l	98
40) Benzene	8.588	78	970391	55.990	ug/l	99
52) Toluene	10.612	92	40821	3.820	ug/l	96
67) Ethyl Benzene	11.941	91	126260	5.642	ug/l	98
68) m/p-Xylenes	12.053	106	82223	9.807	ug/l	98
69) o-Xylene	12.371	106	6889	0.867	ug/l	84
73) Isopropylbenzene	12.676	105	180436	8.315	ug/l	99
78) n-propylbenzene	13.012	91	390222	14.736	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	86009	4.773	ug/l	96
84) 1,2,4-Trimethylbenzene	13.459	105	43111	2.391	ug/l	96
85) sec-Butylbenzene	13.594	105	16466	0.696	ug/l #	62
86) p-Isopropyltoluene	13.706	119	9936	0.524	ug/l	95
89) n-Butylbenzene	14.029	91	17697	0.942	ug/l #	81
95) Naphthalene	15.611	128	67226	3.599	ug/l	97

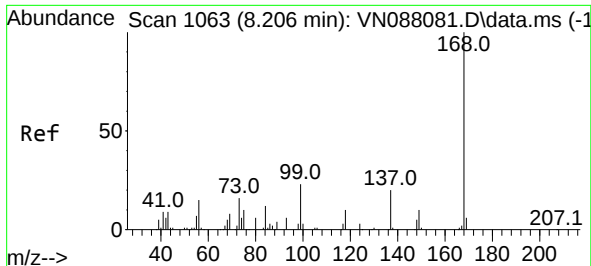
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

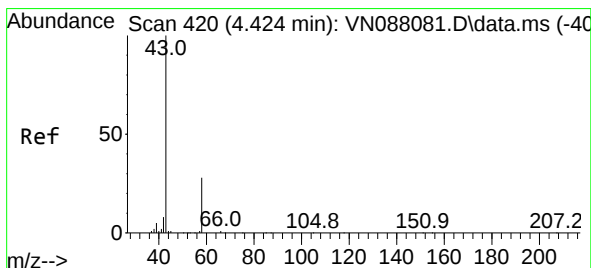
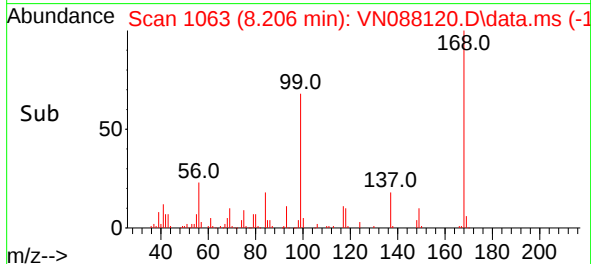
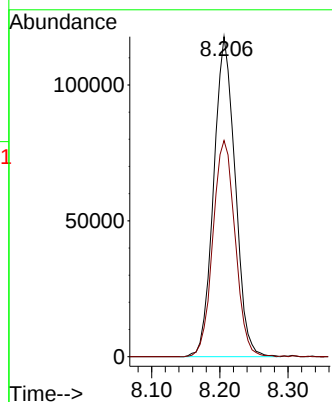
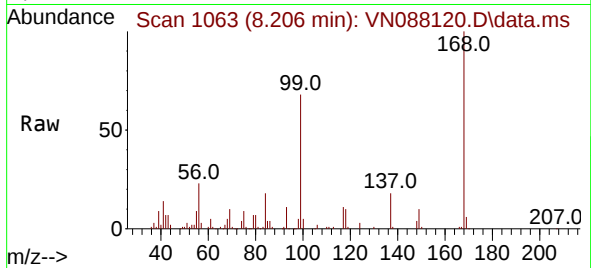




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

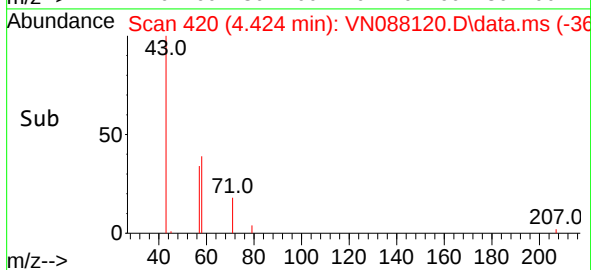
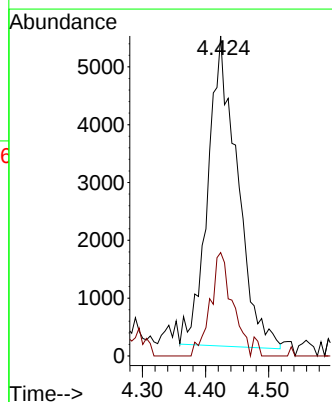
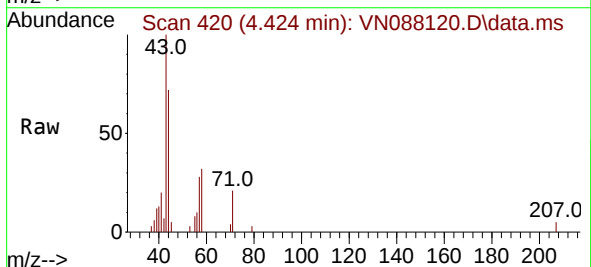
Instrument :
MSVOA_N
ClientSampleId :
MW2

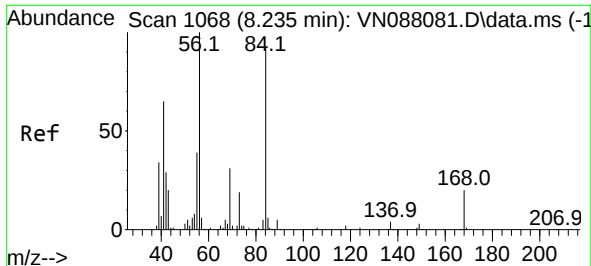
Tgt Ion:168 Resp: 257811
Ion Ratio Lower Upper
168 100
99 67.5 57.2 85.8



#16
Acetone
Concen: 7.777 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

Tgt Ion: 43 Resp: 17419
Ion Ratio Lower Upper
43 100
58 33.6 22.6 33.8

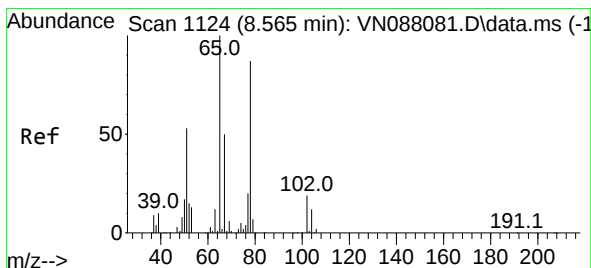
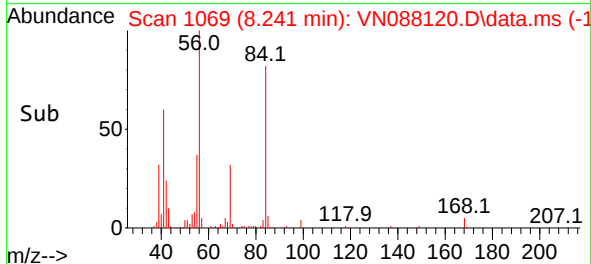
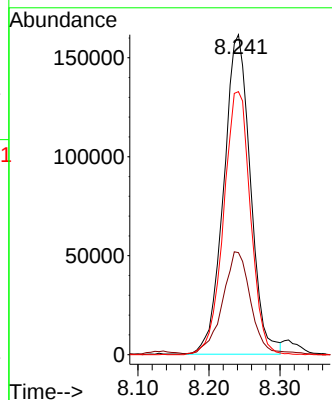
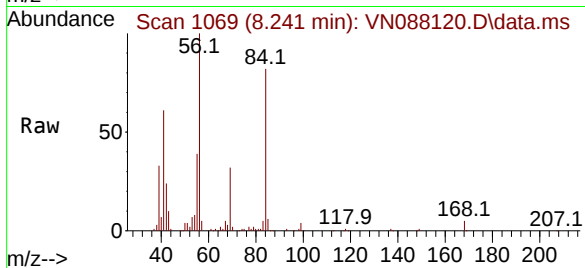




#31
Cyclohexane
Concen: 67.640 ug/l
RT: 8.241 min Scan# 1068
Delta R.T. 0.006 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

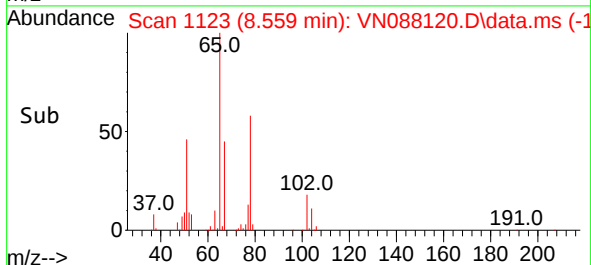
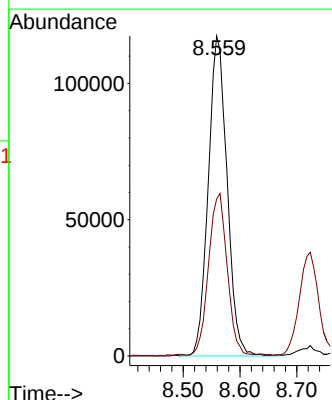
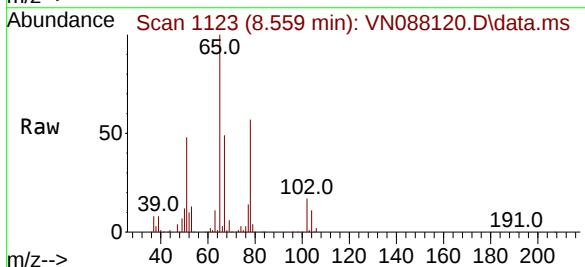
Instrument :
MSVOA_N
ClientSampleId :
MW2

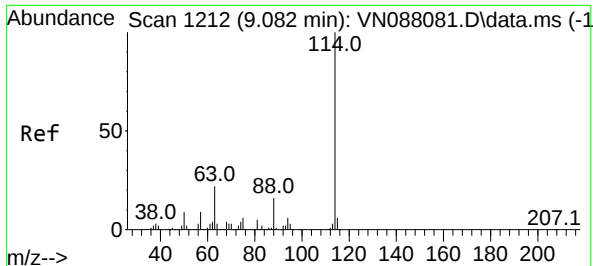
Tgt Ion: 56 Resp: 422101
Ion Ratio Lower Upper
56 100
69 31.4 23.7 35.5
84 82.4 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 60.559 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

Tgt Ion: 65 Resp: 269979
Ion Ratio Lower Upper
65 100
67 50.1 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088120.D

Acq: 27 Oct 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

MW2

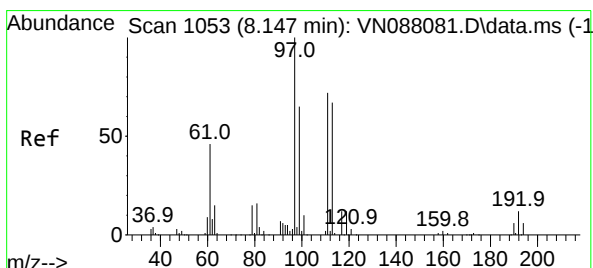
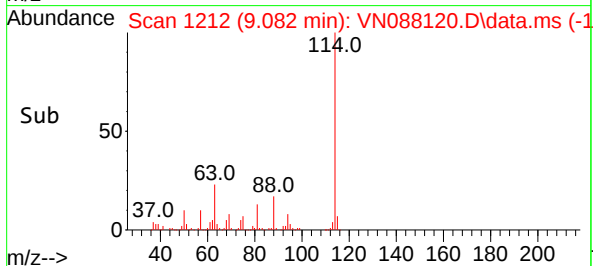
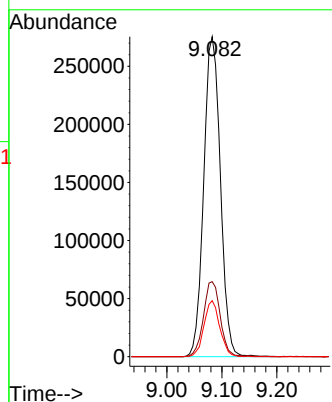
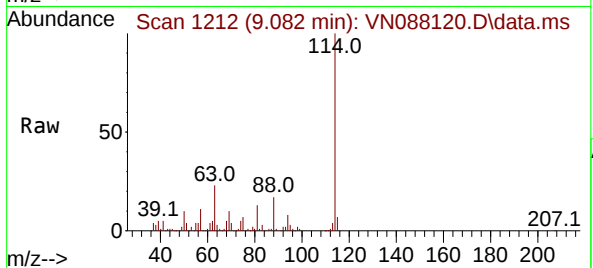
Tgt Ion:114 Resp: 580168

Ion Ratio Lower Upper

114 100

63 23.5 0.0 45.2

88 17.5 0.0 33.4



#35

Dibromofluoromethane

Concen: 48.880 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088120.D

Acq: 27 Oct 2025 17:19

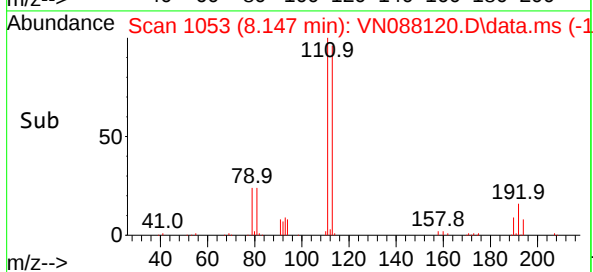
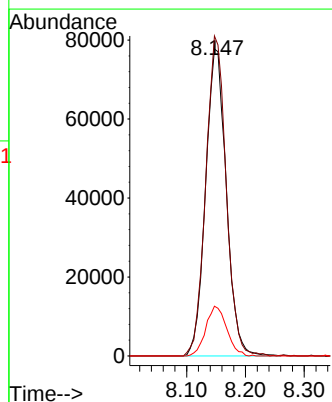
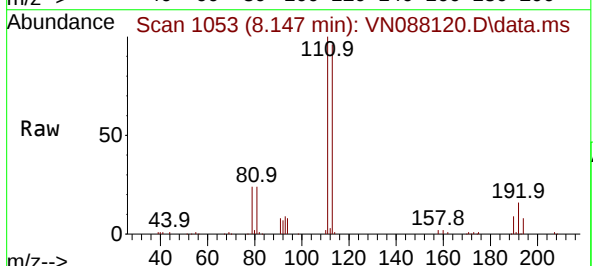
Tgt Ion:113 Resp: 190513

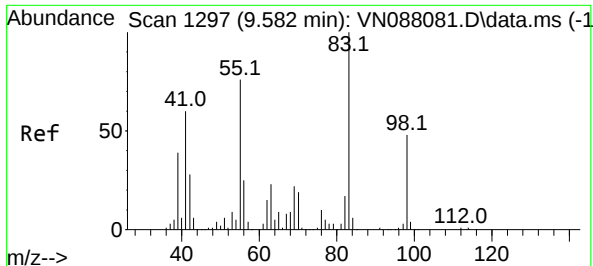
Ion Ratio Lower Upper

113 100

111 102.6 82.8 124.2

192 16.3 12.8 19.2





#39

Methylcyclohexane

Concen: 38.743 ug/l

RT: 9.582 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VN088120.D

Acq: 27 Oct 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

MW2

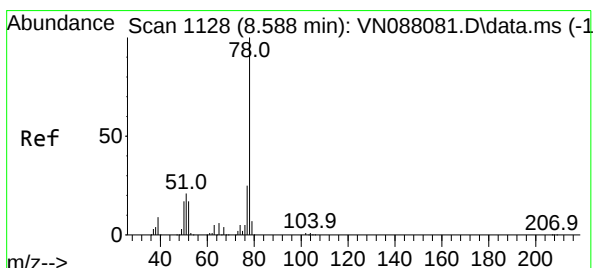
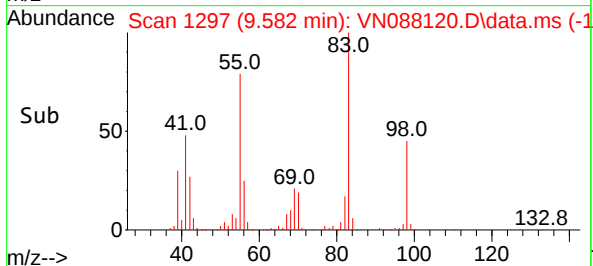
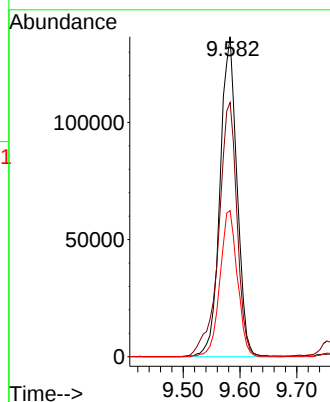
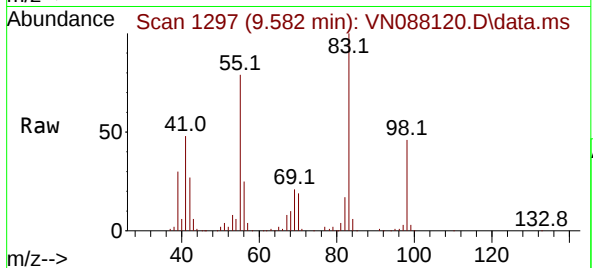
Tgt Ion: 83 Resp: 283403

Ion Ratio Lower Upper

83 100

55 79.4 64.6 96.8

98 45.6 38.4 57.6



#40

Benzene

Concen: 55.990 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN088120.D

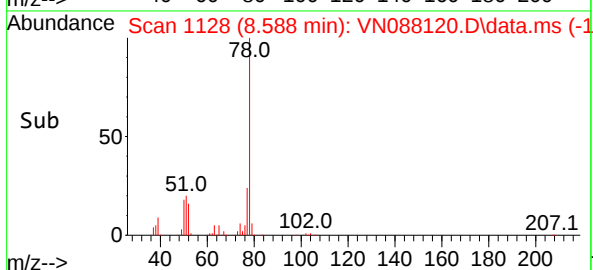
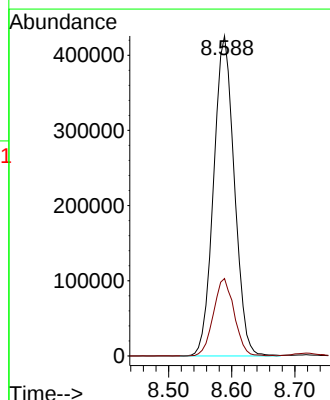
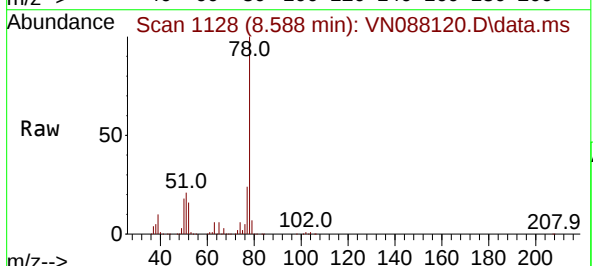
Acq: 27 Oct 2025 17:19

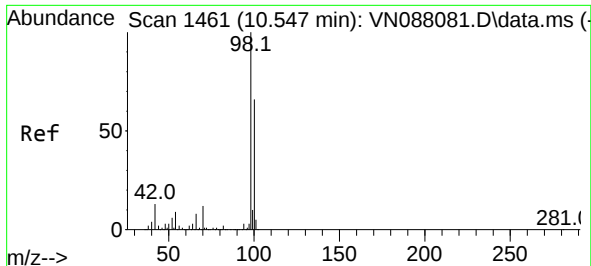
Tgt Ion: 78 Resp: 970391

Ion Ratio Lower Upper

78 100

77 24.2 19.7 29.5

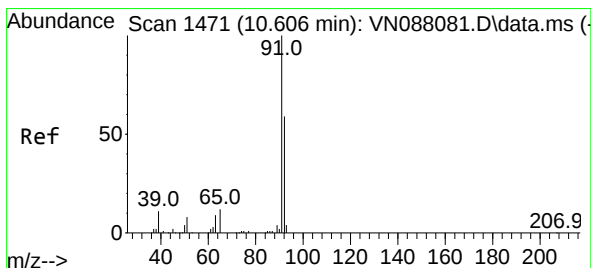
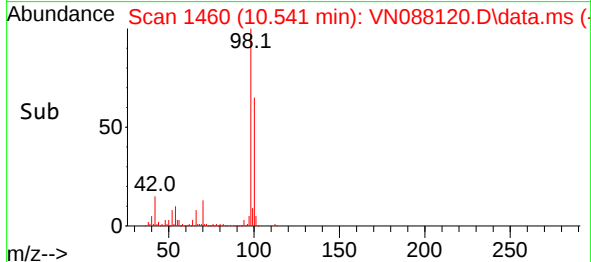
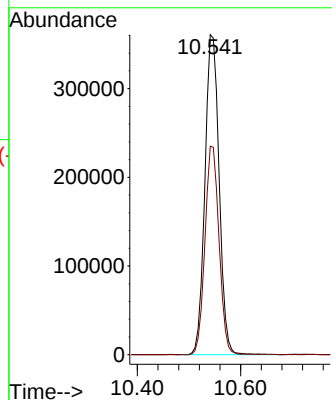
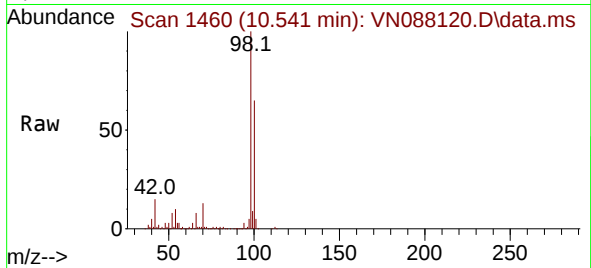




#50
Toluene-d8
Concen: 45.782 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

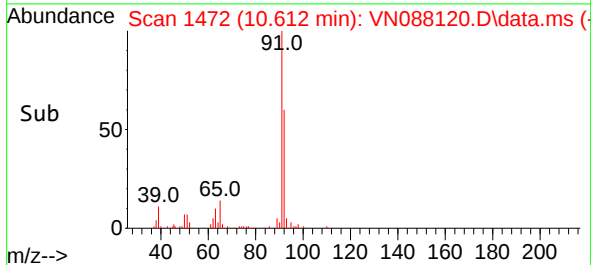
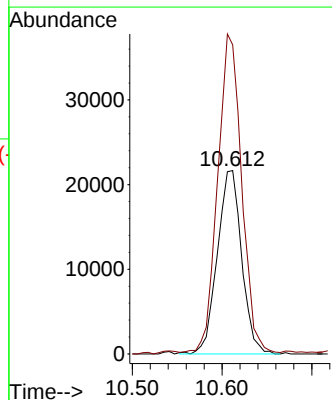
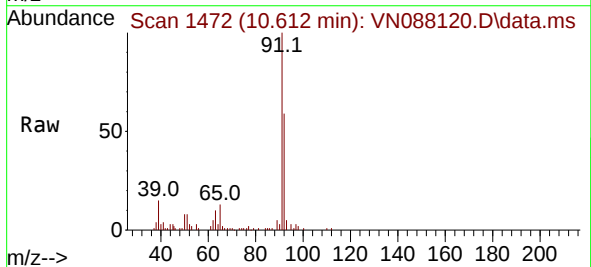
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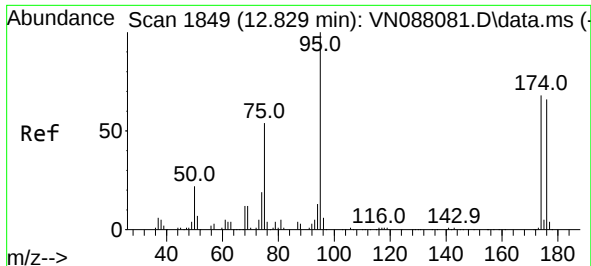
Tgt Ion: 98 Resp: 687552
Ion Ratio Lower Upper
98 100
100 64.6 52.8 79.2



#52
Toluene
Concen: 3.820 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.006 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

Tgt Ion: 92 Resp: 40821
Ion Ratio Lower Upper
92 100
91 170.2 140.4 210.6

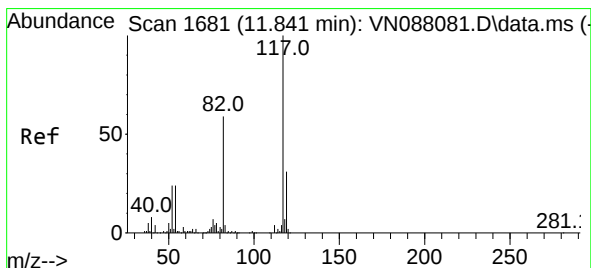
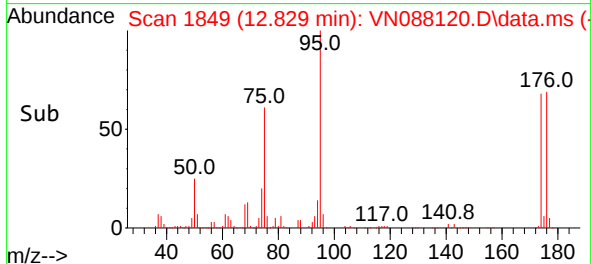
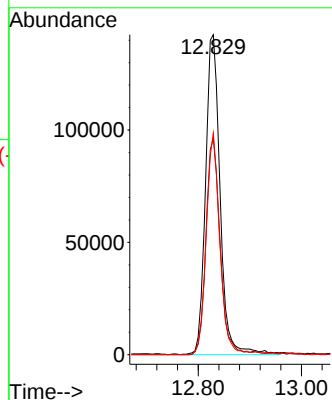
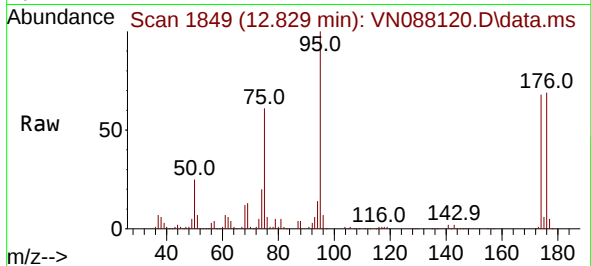




#62
4-Bromofluorobenzene
Concen: 52.511 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

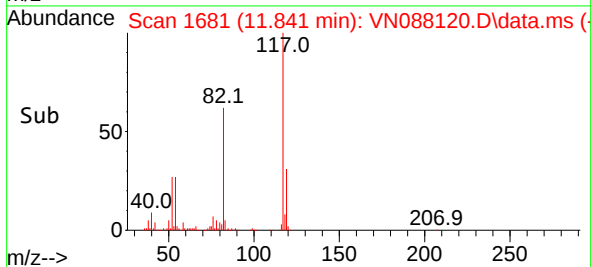
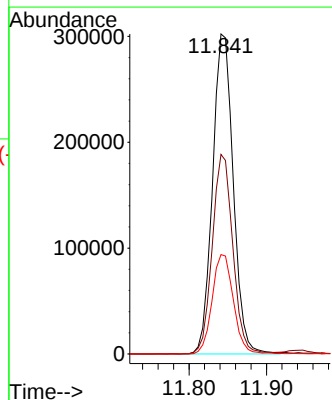
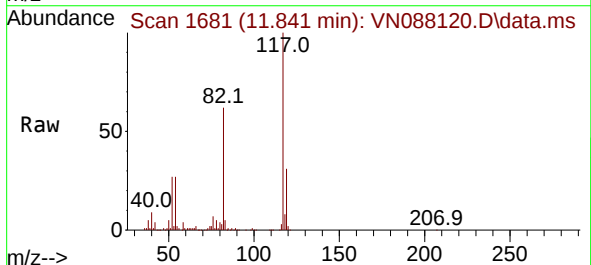
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MSVOA_N
ClientSampleId :
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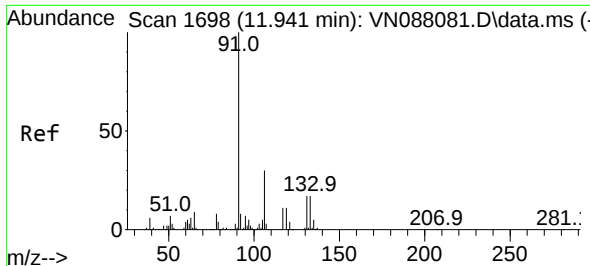
Tgt Ion: 95 Resp: 278511
Ion Ratio Lower Upper
95 100
174 65.5 0.0 138.4
176 64.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

Tgt Ion: 117 Resp: 561441
Ion Ratio Lower Upper
117 100
82 62.4 47.4 71.2
119 31.0 24.3 36.5

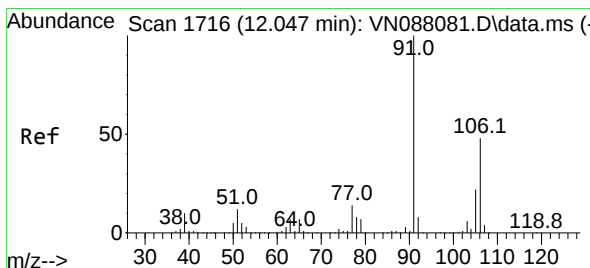
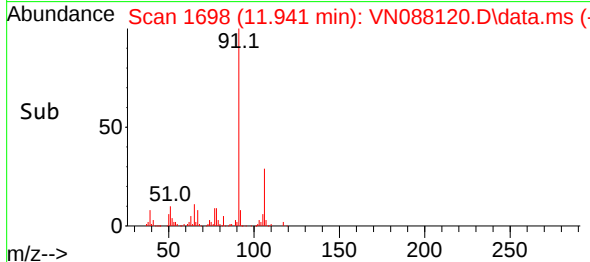
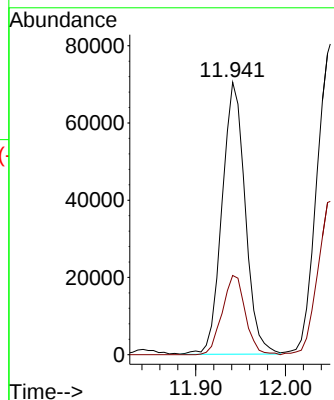
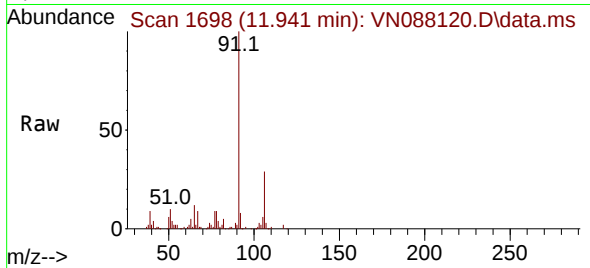




#67
Ethyl Benzene
Concen: 5.642 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

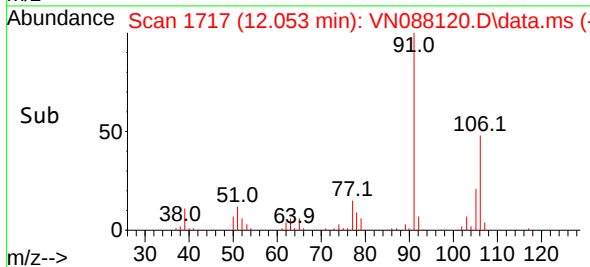
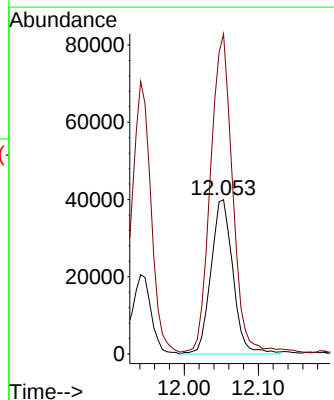
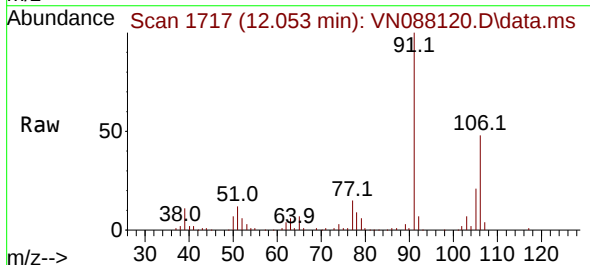
Instrument :
MSVOA_N
ClientSampleId :
MW2

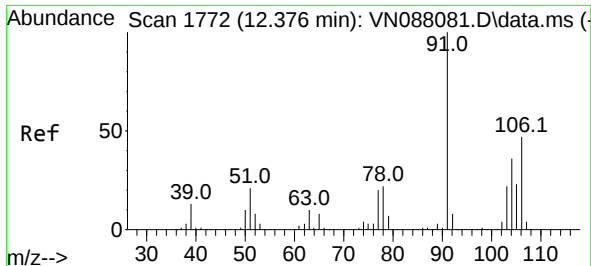
Tgt Ion: 91 Resp: 126260
Ion Ratio Lower Upper
91 100
106 29.1 24.1 36.1



#68
m/p-Xylenes
Concen: 9.807 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

Tgt Ion: 106 Resp: 82223
Ion Ratio Lower Upper
106 100
91 208.9 169.3 253.9

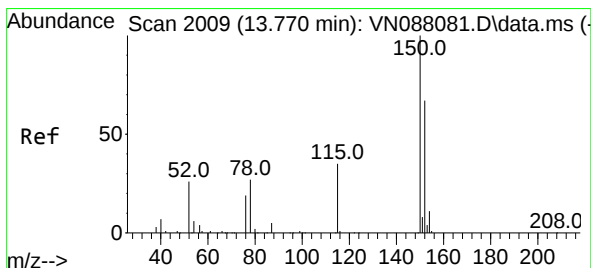
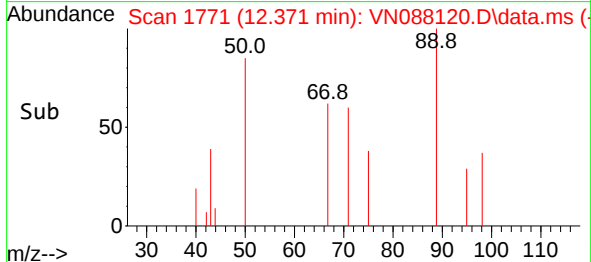
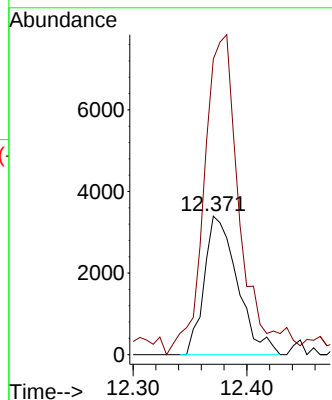
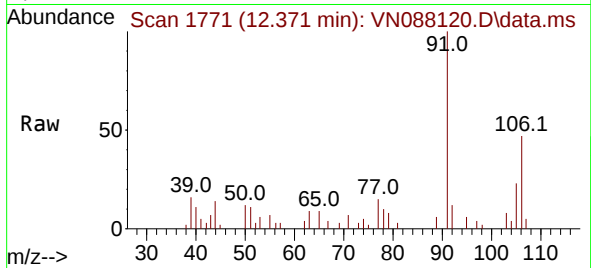




#69
o-Xylene
Concen: 0.867 ug/l
RT: 12.371 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

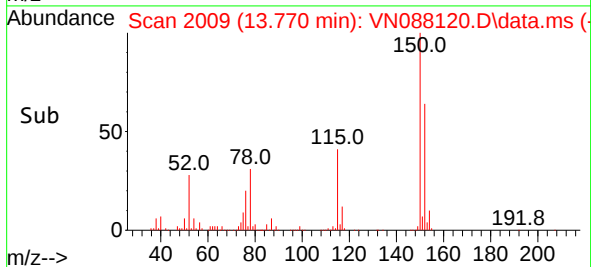
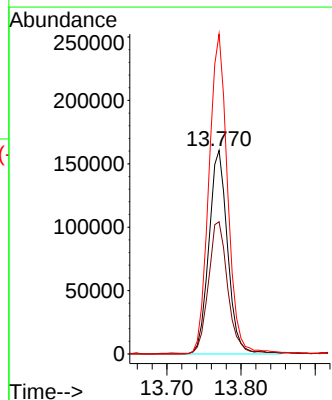
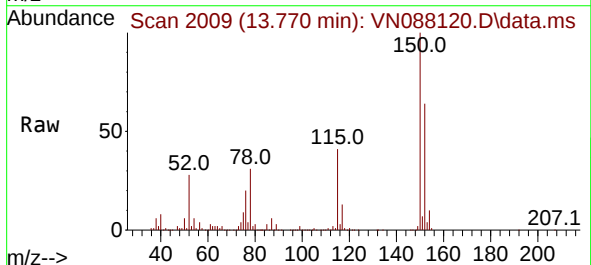
Instrument :
MSVOA_N
ClientSampleId :
MW2

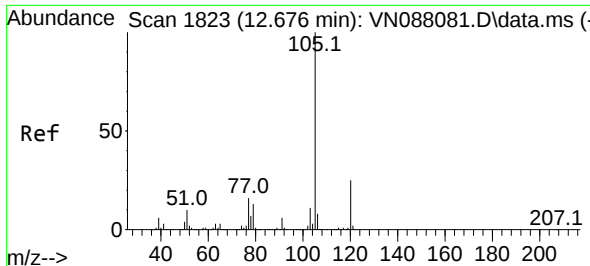
Tgt Ion:106 Resp: 6889
Ion Ratio Lower Upper
106 100
91 248.8 111.4 334.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

Tgt Ion:152 Resp: 281349
Ion Ratio Lower Upper
152 100
115 66.9 32.3 96.8
150 157.9 0.0 351.0

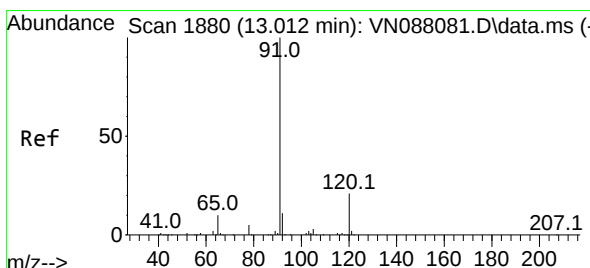
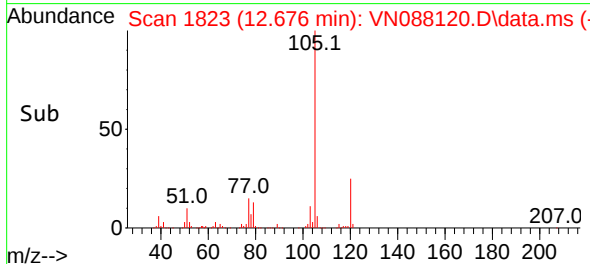
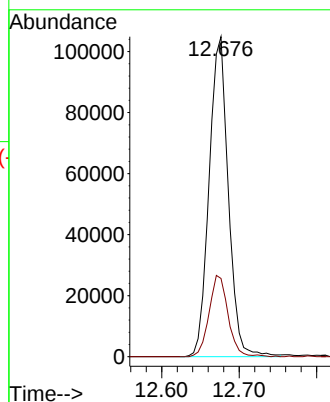
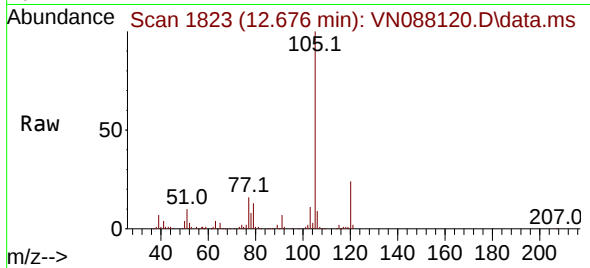




#73
Isopropylbenzene
Concen: 8.315 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

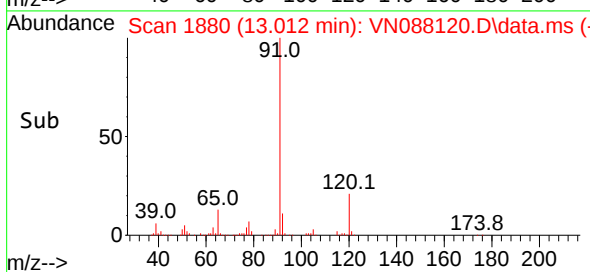
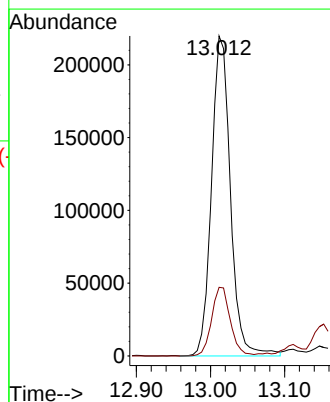
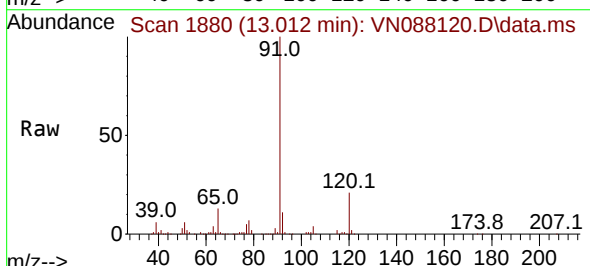
Instrument :
MSVOA_N
ClientSampleId :
MW2

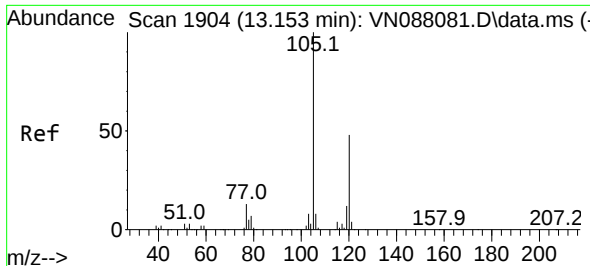
Tgt Ion:105 Resp: 180436
Ion Ratio Lower Upper
105 100
120 25.2 12.8 38.3



#78
n-propylbenzene
Concen: 14.736 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

Tgt Ion: 91 Resp: 390222
Ion Ratio Lower Upper
91 100
120 21.1 10.7 32.1

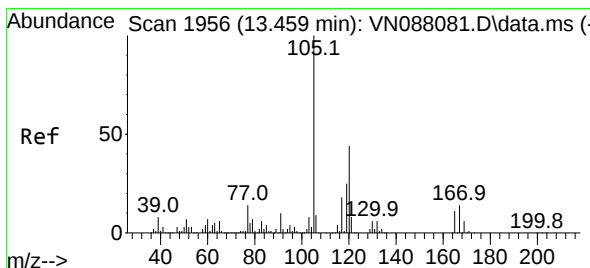
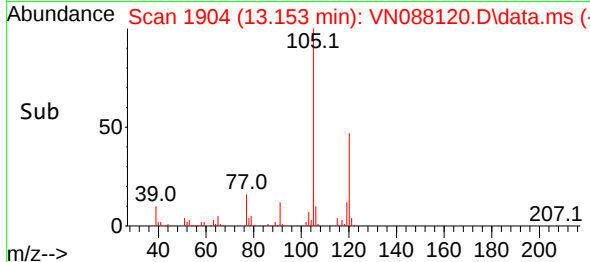
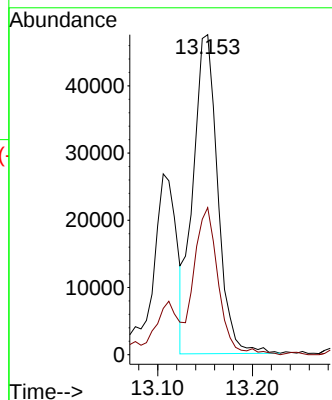
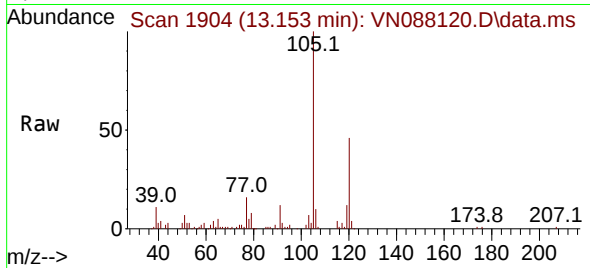




#80
1,3,5-Trimethylbenzene
Concen: 4.773 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

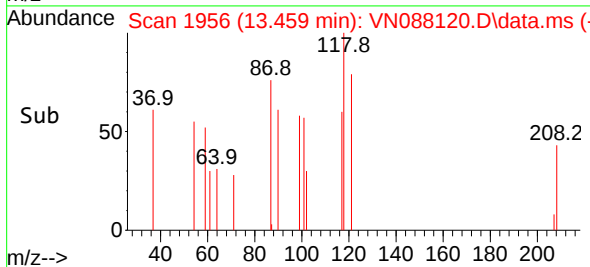
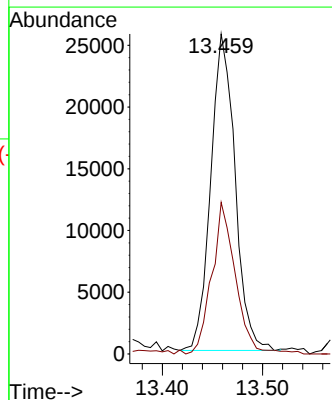
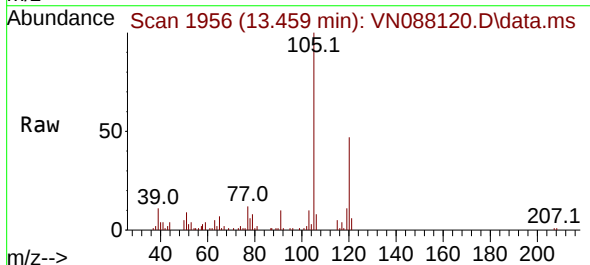
Instrument :
MSVOA_N
ClientSampleId :
MW2

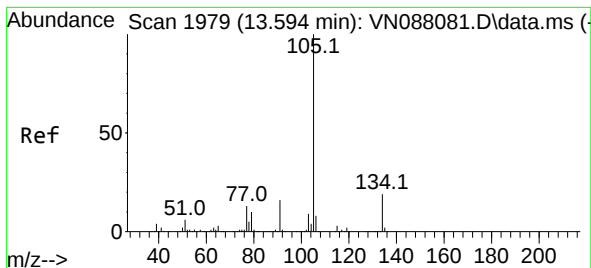
Tgt Ion:105 Resp: 86009
Ion Ratio Lower Upper
105 100
120 43.8 23.2 69.6



#84
1,2,4-Trimethylbenzene
Concen: 2.391 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

Tgt Ion:105 Resp: 43111
Ion Ratio Lower Upper
105 100
120 46.8 22.0 66.0





#85

sec-Butylbenzene

Concen: 0.696 ug/l

RT: 13.594 min Scan# 1979

Delta R.T. -0.000 min

Lab File: VN088120.D

Acq: 27 Oct 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

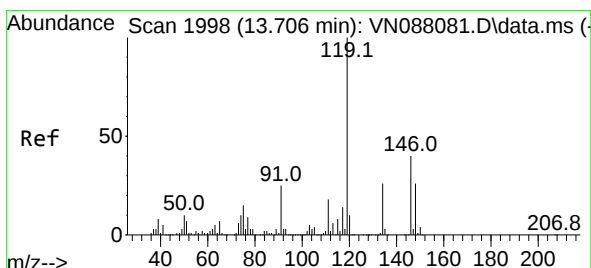
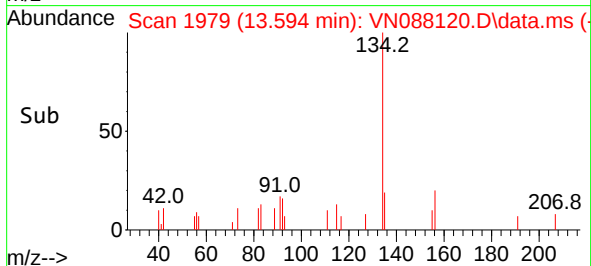
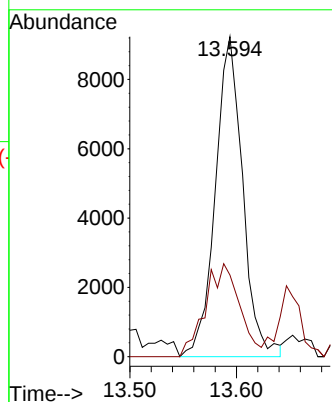
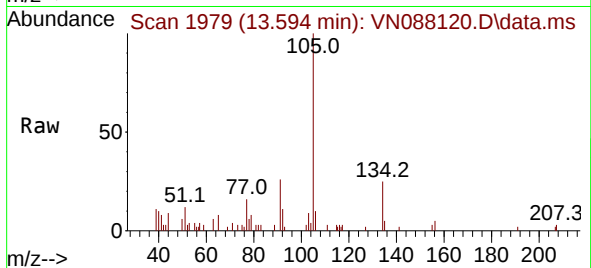
MW2

Tgt Ion:105 Resp: 16466

Ion Ratio Lower Upper

105 100

134 36.5 9.6 28.6#



#86

p-Isopropyltoluene

Concen: 0.524 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. -0.000 min

Lab File: VN088120.D

Acq: 27 Oct 2025 17:19

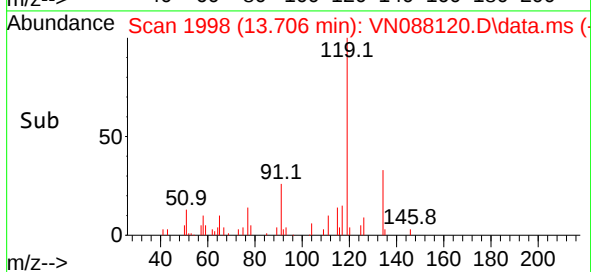
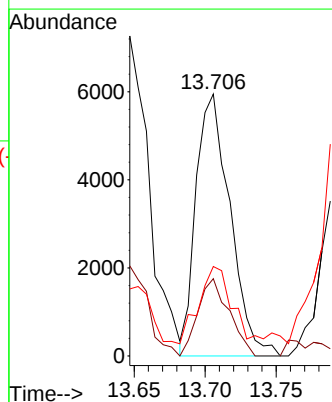
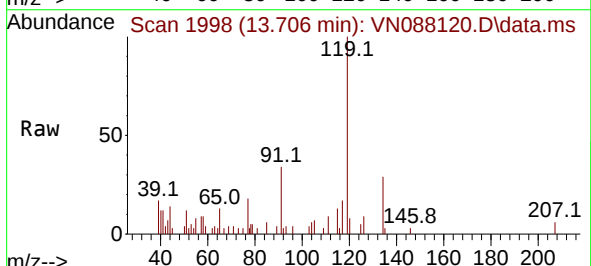
Tgt Ion:119 Resp: 9936

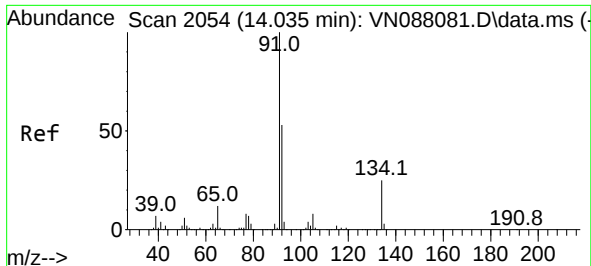
Ion Ratio Lower Upper

119 100

134 27.0 12.7 38.0

91 28.7 12.5 37.5

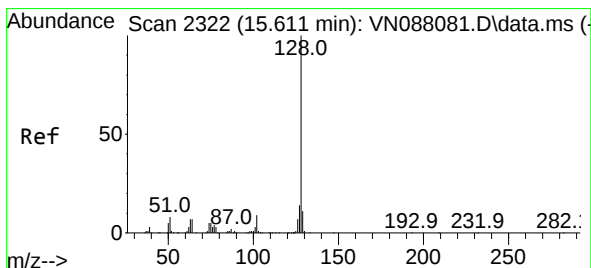
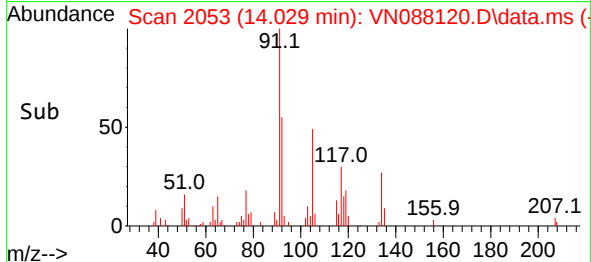
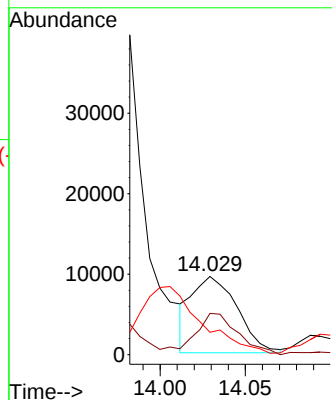
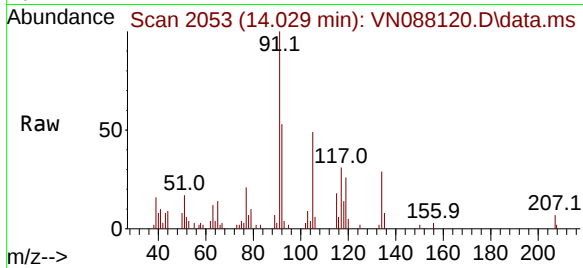




#89
n-Butylbenzene
Concen: 0.942 ug/l
RT: 14.029 min Scan# 2053
Delta R.T. -0.000 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
MW2

Tgt Ion: 91 Resp: 17697
Ion Ratio Lower Upper
91 100
92 48.0 25.9 77.8
134 0.0 11.7 35.0#



#95
Naphthalene
Concen: 3.599 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. -0.000 min
Lab File: VN088120.D
Acq: 27 Oct 2025 17:19

Tgt Ion:128 Resp: 67226
Ion Ratio Lower Upper
128 100
127 12.5 10.6 15.8
129 12.6 8.6 12.8

