

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088107.D
 Acq On : 27 Oct 2025 12:50
 Operator : JC\MD
 Sample : Q3454-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 101625

Quant Time: Oct 28 01:25:20 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)

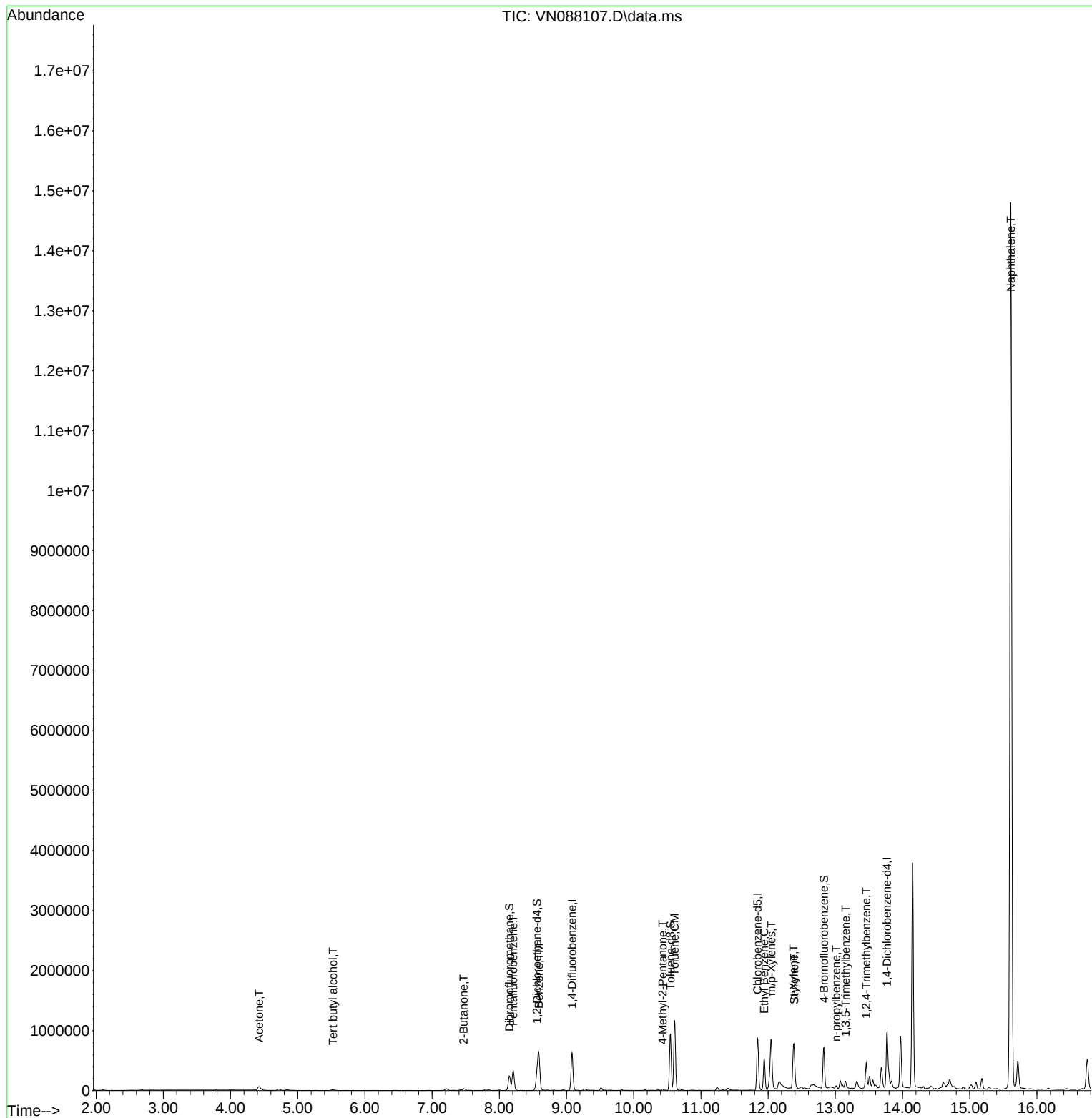
Internal Standards						
1) Pentafluorobenzene	8.206	168	220370	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	495278	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	477882	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	244578	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	229414	60.203	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 120.400%			
35) Dibromofluoromethane	8.147	113	169925	51.070	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.140%			
50) Toluene-d8	10.547	98	617381	48.155	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.320%			
62) 4-Bromofluorobenzene	12.829	95	253804	56.055	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 112.100%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.524	59	26661	40.611	ug/l #	86
16) Acetone	4.424	43	124653	65.113	ug/l	97
25) 2-Butanone	7.471	43	46829	18.561	ug/l	97
40) Benzene	8.589	78	555554	37.549	ug/l	99
51) 4-Methyl-2-Pentanone	10.430	43	14695	2.578	ug/l	97
52) Toluene	10.606	92	496917	54.474	ug/l	99
67) Ethyl Benzene	11.941	91	393147	20.641	ug/l	100
68) m/p-Xylenes	12.047	106	227097	31.821	ug/l	98
69) o-Xylene	12.377	106	136775	20.217	ug/l	97
70) Styrene	12.388	104	221023	20.035	ug/l	97
78) n-propylbenzene	13.012	91	36089	1.568	ug/l	89
80) 1,3,5-Trimethylbenzene	13.153	105	76995	4.915	ug/l	100
84) 1,2,4-Trimethylbenzene	13.459	105	227524	14.516	ug/l	99
95) Naphthalene	15.612	128	12781980	787.069	ug/l	99

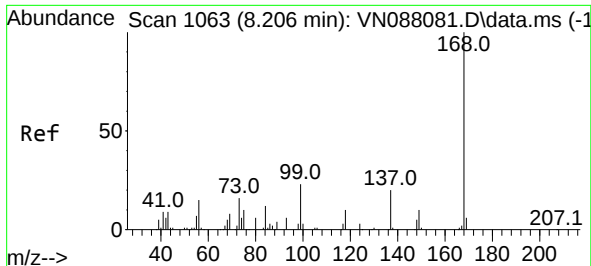
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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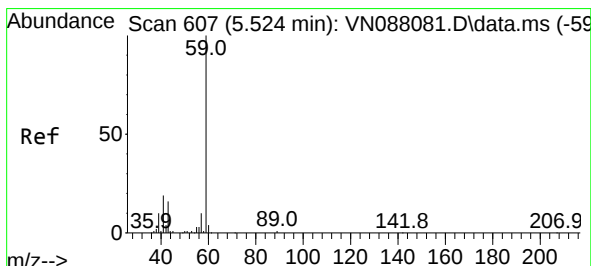
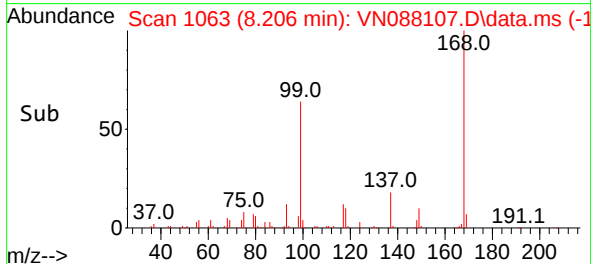
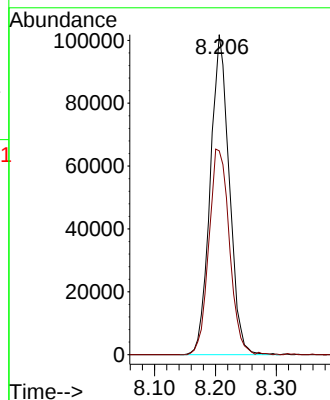
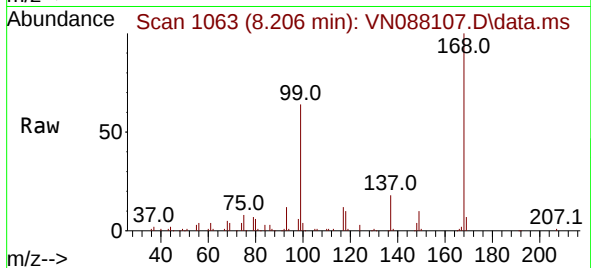




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088107.D
Acq: 27 Oct 2025 12:50

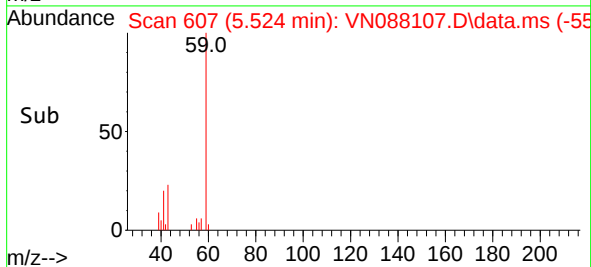
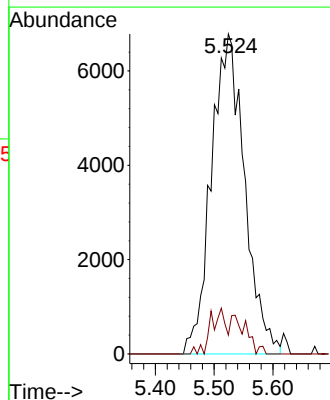
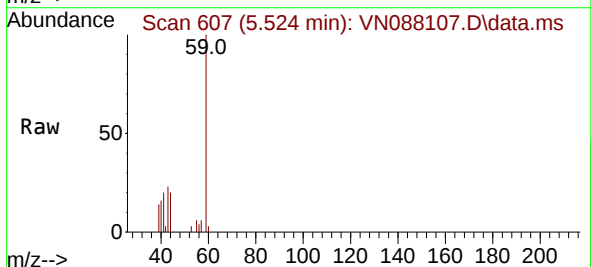
Instrument :
MSVOA_N
ClientSampleId :
101625

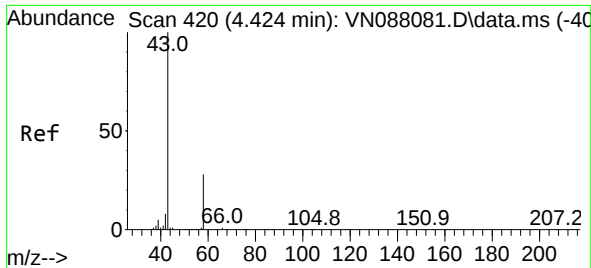
Tgt Ion:168 Resp: 220370
Ion Ratio Lower Upper
168 100
99 63.7 57.2 85.8



#11
Tert butyl alcohol
Concen: 40.611 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN088107.D
Acq: 27 Oct 2025 12:50

Tgt Ion: 59 Resp: 26661
Ion Ratio Lower Upper
59 100
57 5.8 9.0 13.4#

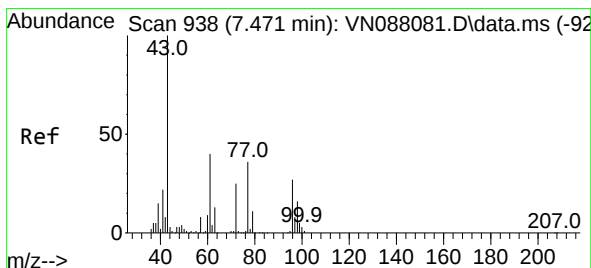
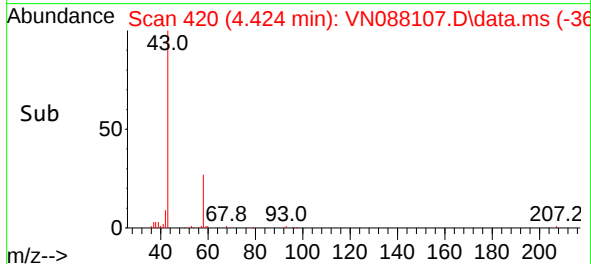
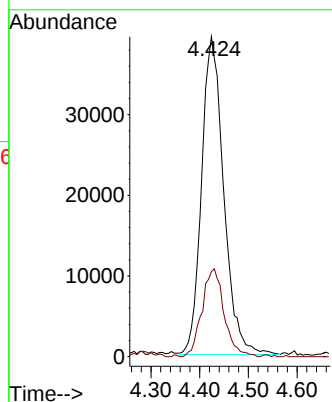
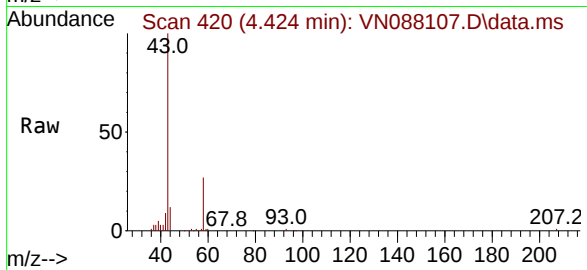




#16
Acetone
Concen: 65.113 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN088107.D
Acq: 27 Oct 2025 12:50

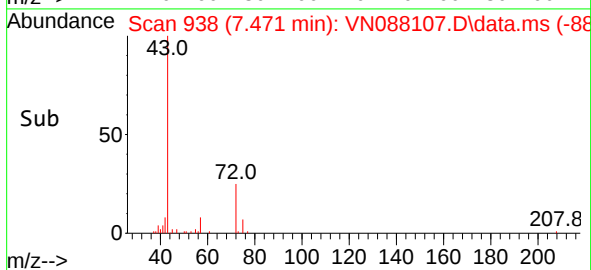
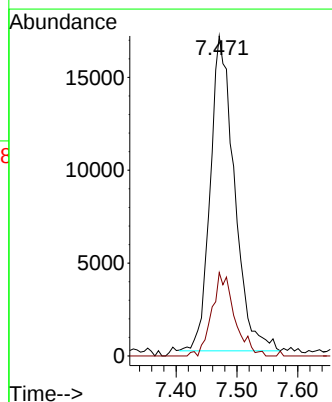
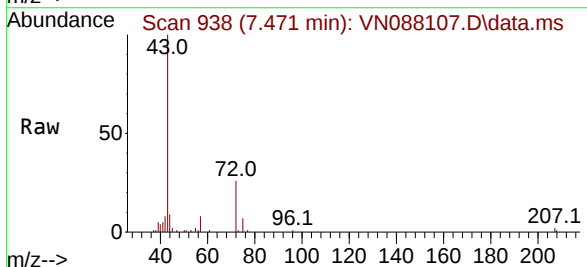
Instrument :
MSVOA_N
ClientSampleId :
101625

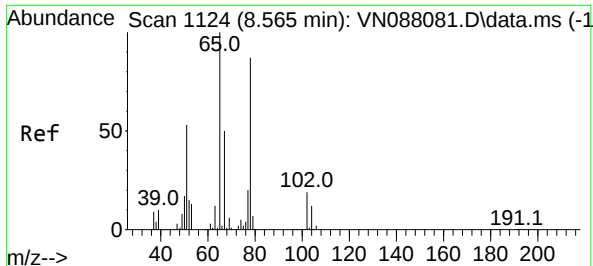
Tgt Ion: 43 Resp: 124653
Ion Ratio Lower Upper
43 100
58 26.7 22.6 33.8



#25
2-Butanone
Concen: 18.561 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN088107.D
Acq: 27 Oct 2025 12:50

Tgt Ion: 43 Resp: 46829
Ion Ratio Lower Upper
43 100
72 26.5 19.9 29.9





#33

1,2-Dichloroethane-d4

Concen: 60.203 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088107.D

Acq: 27 Oct 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

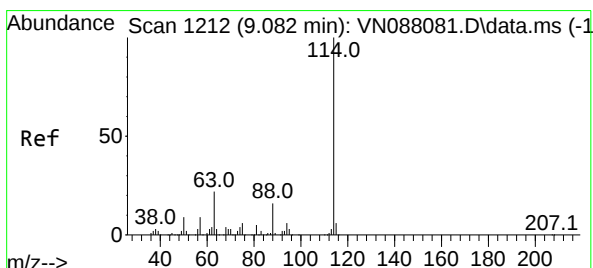
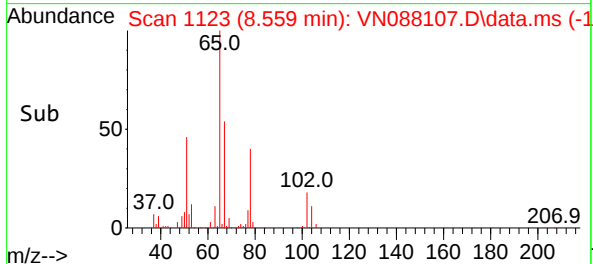
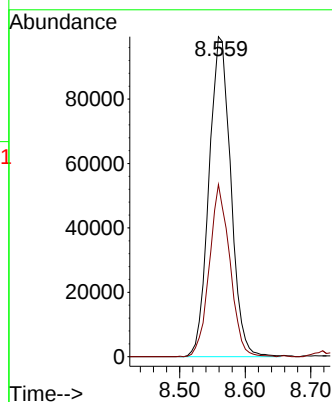
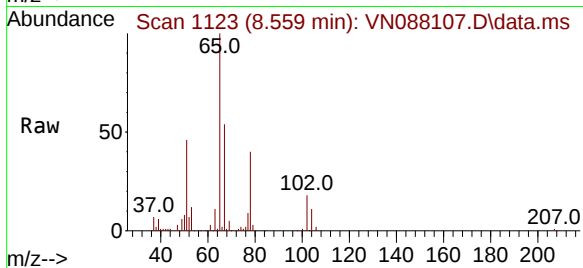
101625

Tgt Ion: 65 Resp: 229414

Ion Ratio Lower Upper

65 100

67 50.6 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088107.D

Acq: 27 Oct 2025 12:50

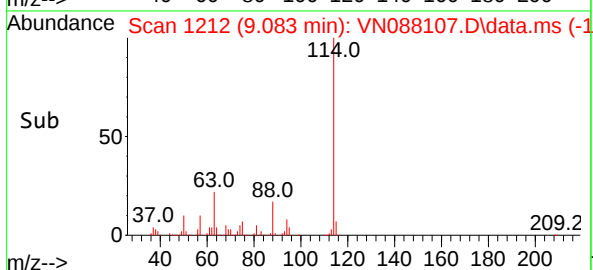
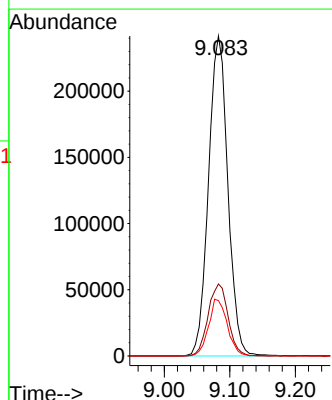
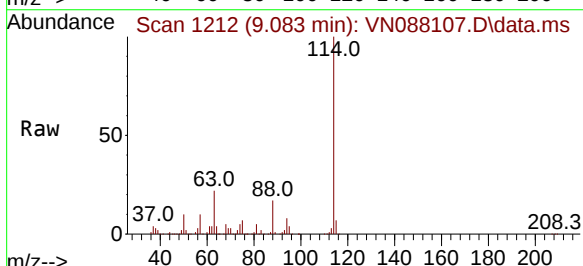
Tgt Ion: 114 Resp: 495278

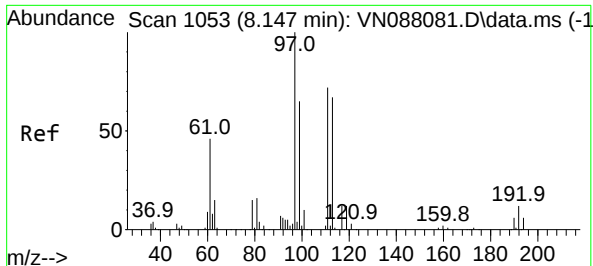
Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.2

88 17.3 0.0 33.4

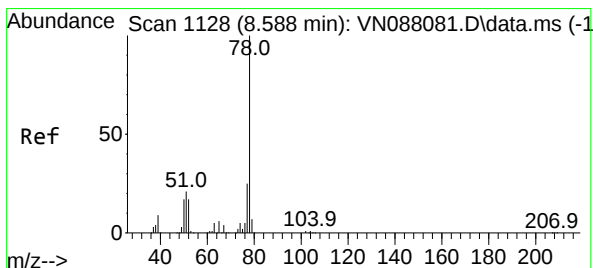
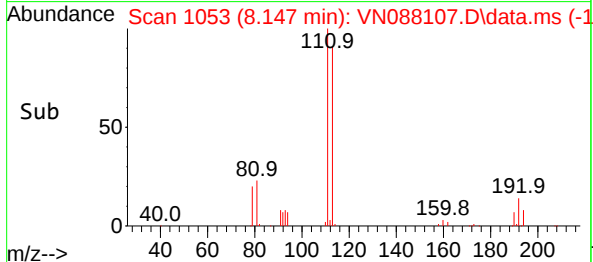
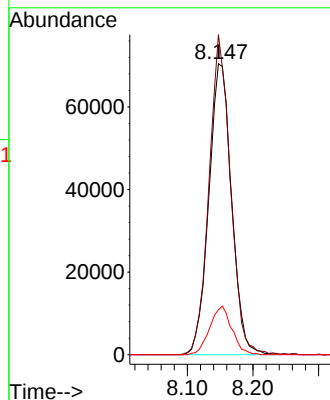
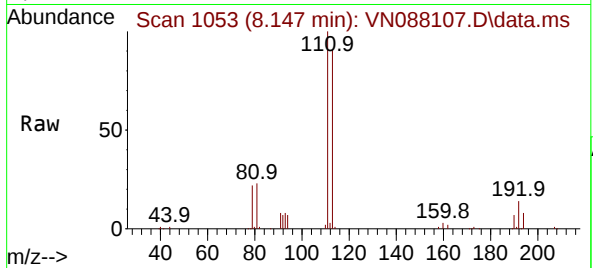




#35
Dibromofluoromethane
Concen: 51.070 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088107.D
Acq: 27 Oct 2025 12:50

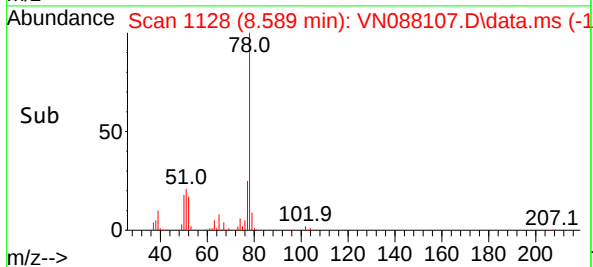
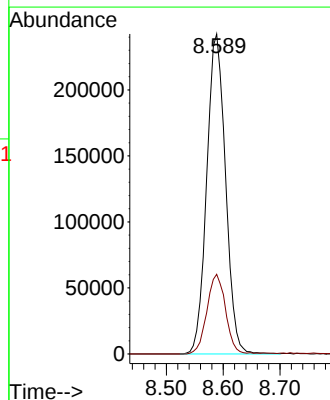
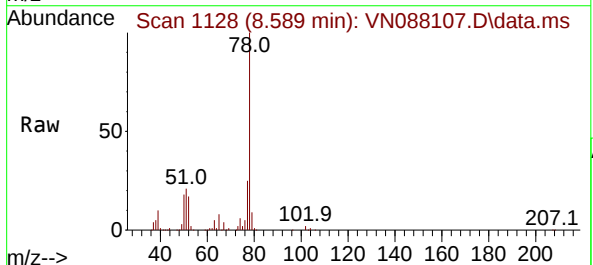
Instrument :
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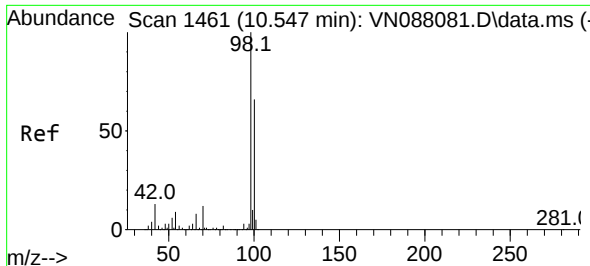
Tgt Ion:113 Resp: 169925
Ion Ratio Lower Upper
113 100
111 103.6 82.8 124.2
192 16.2 12.8 19.2



#40
Benzene
Concen: 37.549 ug/l
RT: 8.589 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088107.D
Acq: 27 Oct 2025 12:50

Tgt Ion: 78 Resp: 555554
Ion Ratio Lower Upper
78 100
77 24.9 19.7 29.5

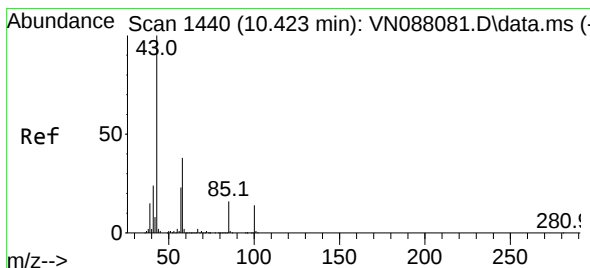
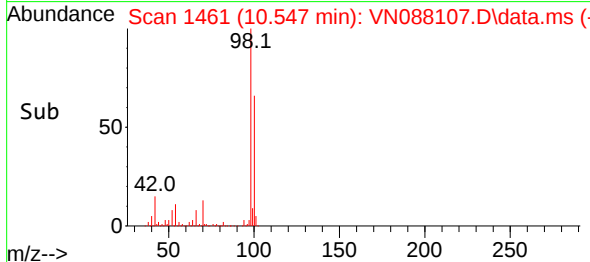
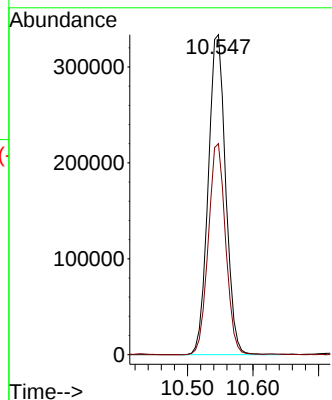
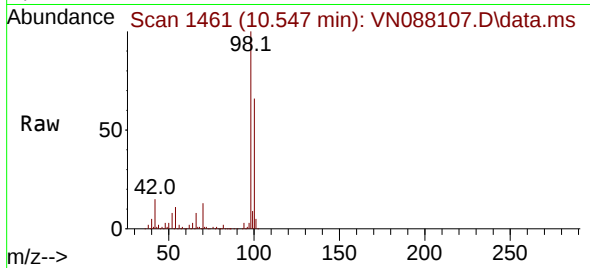




#50
Toluene-d8
Concen: 48.155 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088107.D
Acq: 27 Oct 2025 12:50

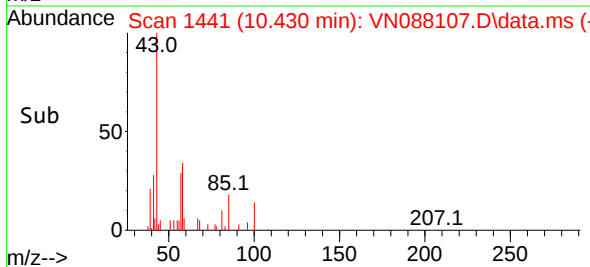
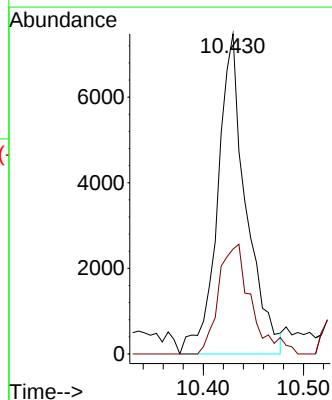
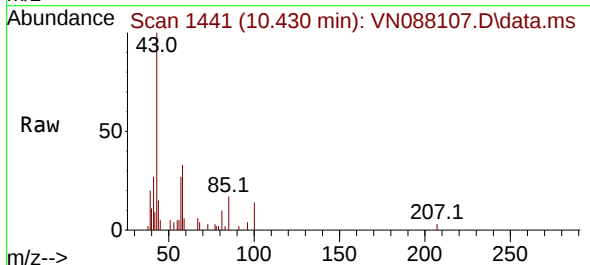
Instrument :
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ClientSampleId :
101625

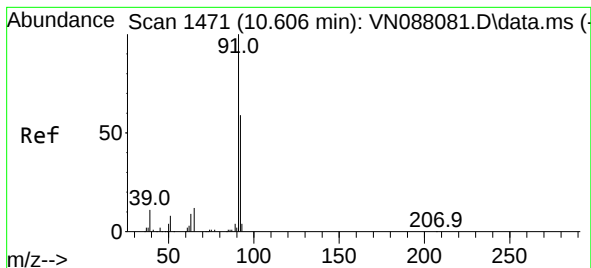
Tgt Ion: 98 Resp: 617381
Ion Ratio Lower Upper
98 100
100 65.4 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 2.578 ug/l
RT: 10.430 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN088107.D
Acq: 27 Oct 2025 12:50

Tgt Ion: 43 Resp: 14695
Ion Ratio Lower Upper
43 100
58 39.1 29.6 44.4





#52

Toluene

Concen: 54.474 ug/l

RT: 10.606 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VN088107.D

Acq: 27 Oct 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

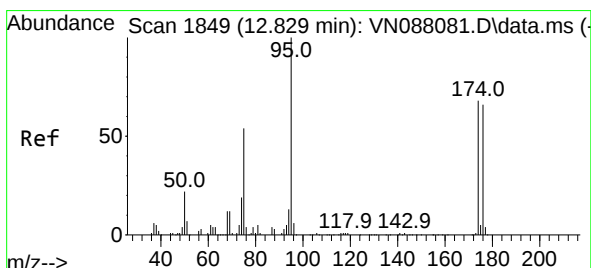
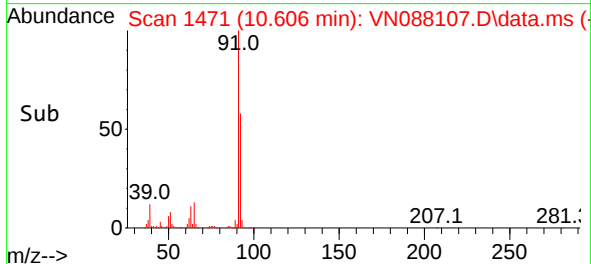
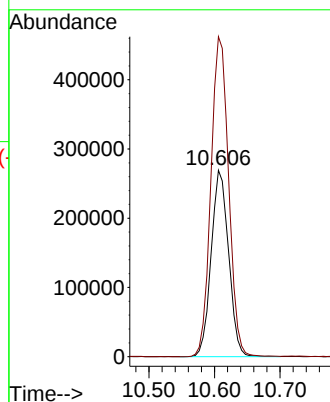
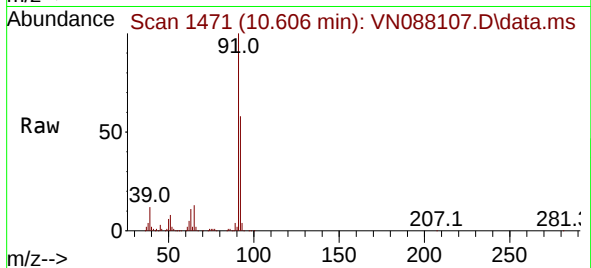
101625

Tgt Ion: 92 Resp: 496917

Ion Ratio Lower Upper

92 100

91 174.5 140.4 210.6



#62

4-Bromofluorobenzene

Concen: 56.055 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VN088107.D

Acq: 27 Oct 2025 12:50

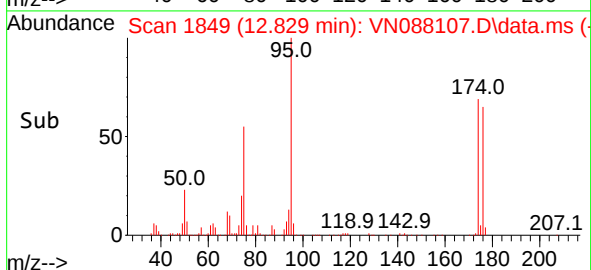
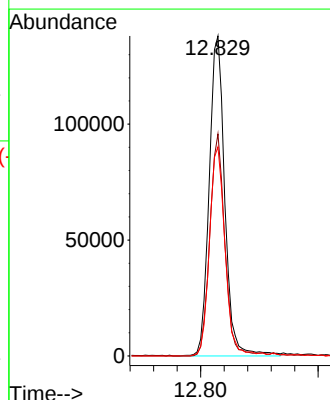
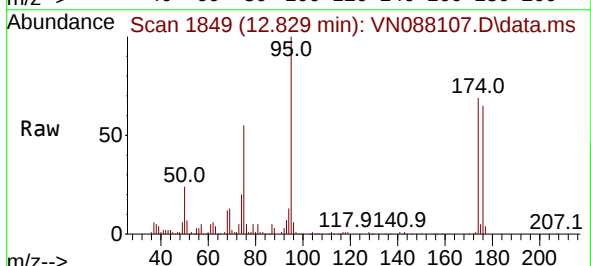
Tgt Ion: 95 Resp: 253804

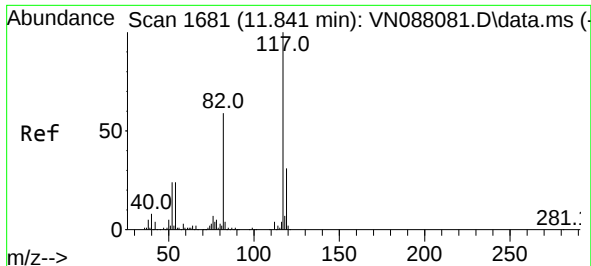
Ion Ratio Lower Upper

95 100

174 67.0 0.0 138.4

176 65.3 0.0 132.6

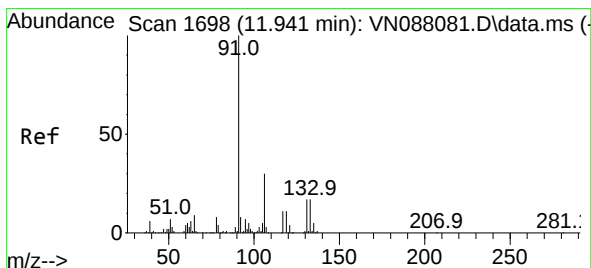
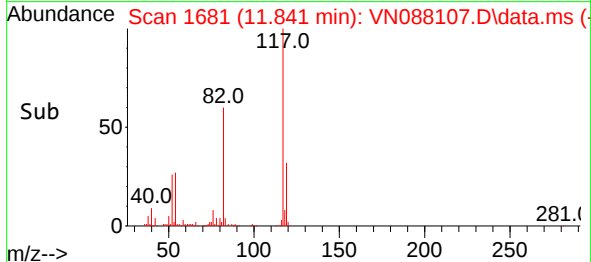
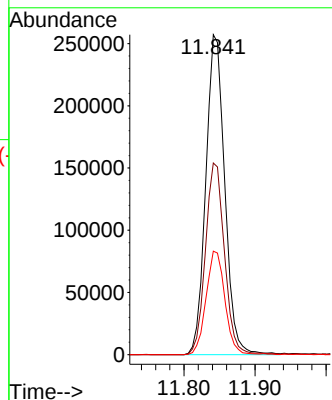
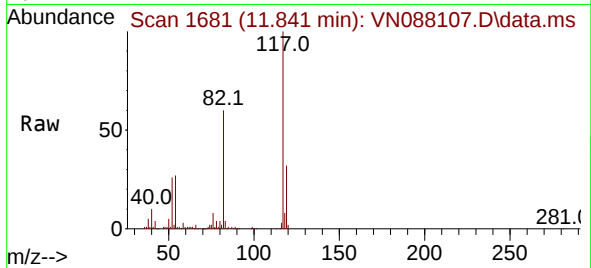




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN088107.D
Acq: 27 Oct 2025 12:50

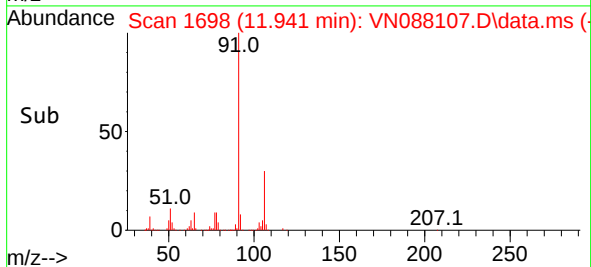
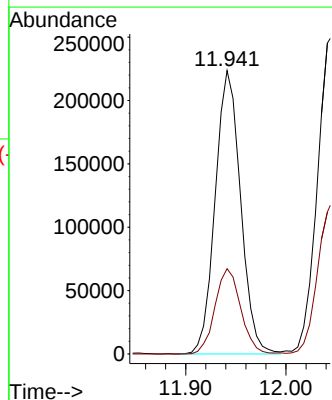
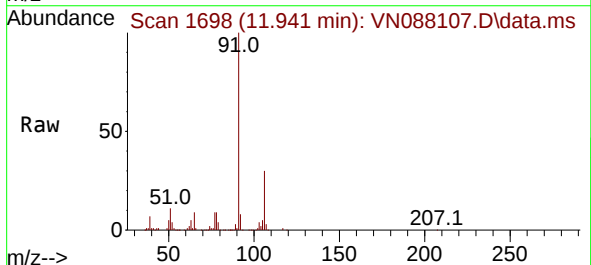
Instrument :
MSVOA_N
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101625

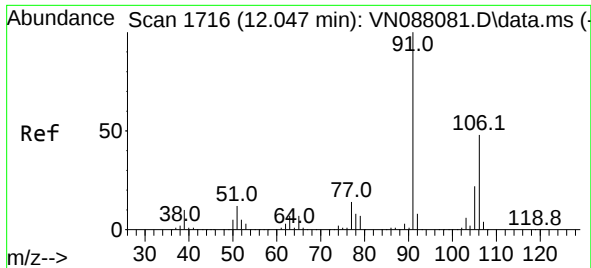
Tgt Ion:117 Resp: 477882
Ion Ratio Lower Upper
117 100
82 59.9 47.4 71.2
119 32.4 24.3 36.5



#67
Ethyl Benzene
Concen: 20.641 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088107.D
Acq: 27 Oct 2025 12:50

Tgt Ion: 91 Resp: 393147
Ion Ratio Lower Upper
91 100
106 30.1 24.1 36.1

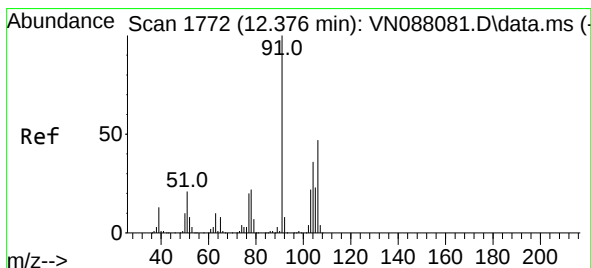
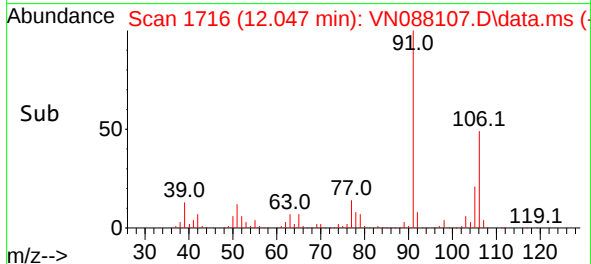
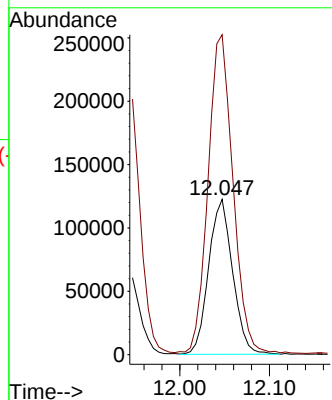
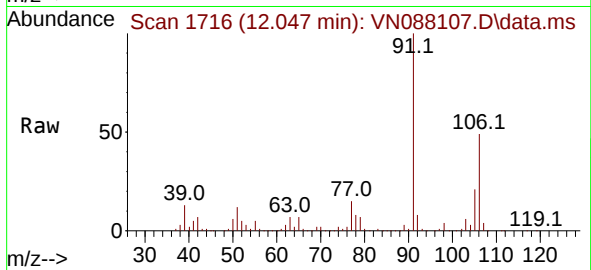




#68
m/p-Xylenes
Concen: 31.821 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088107.D
Acq: 27 Oct 2025 12:50

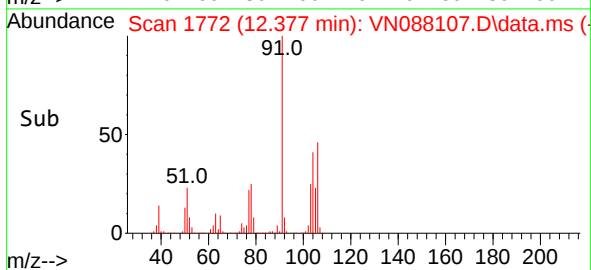
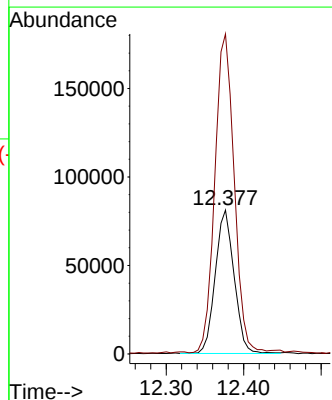
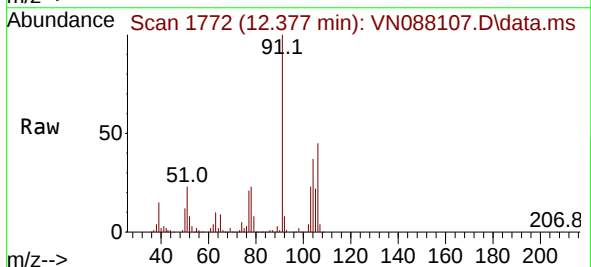
Instrument :
MSVOA_N
ClientSampleId :
101625

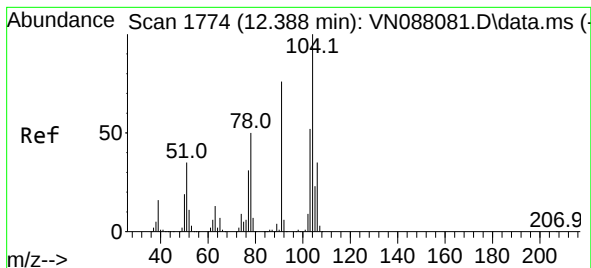
Tgt Ion:106 Resp: 227097
Ion Ratio Lower Upper
106 100
91 214.6 169.3 253.9



#69
o-Xylene
Concen: 20.217 ug/l
RT: 12.377 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088107.D
Acq: 27 Oct 2025 12:50

Tgt Ion:106 Resp: 136775
Ion Ratio Lower Upper
106 100
91 227.8 111.4 334.2





#70

Styrene

Concen: 20.035 ug/l

RT: 12.388 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088107.D

Acq: 27 Oct 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

101625

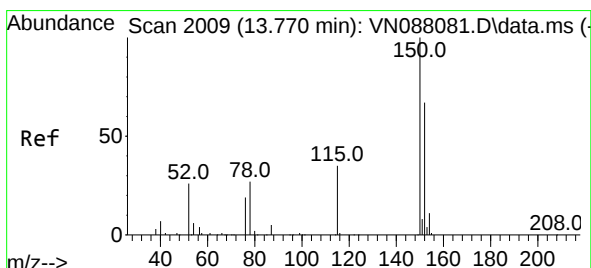
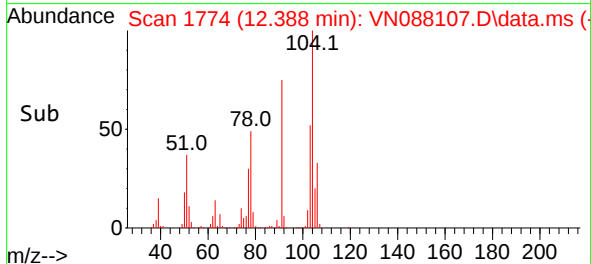
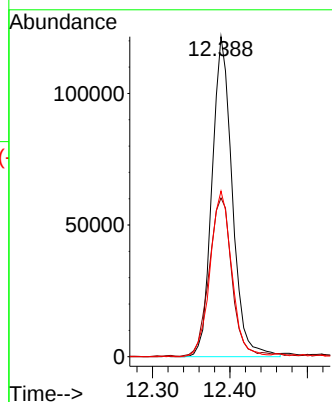
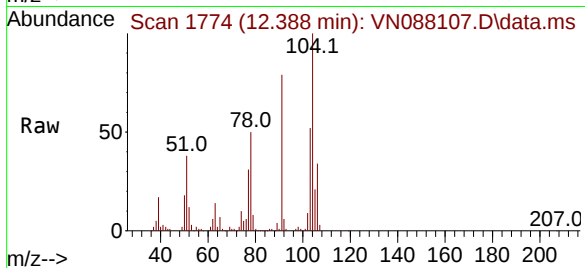
Tgt Ion:104 Resp: 221023

Ion Ratio Lower Upper

104 100

78 55.6 42.2 63.2

103 55.1 43.4 65.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088107.D

Acq: 27 Oct 2025 12:50

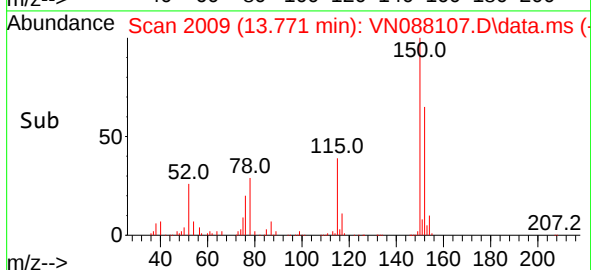
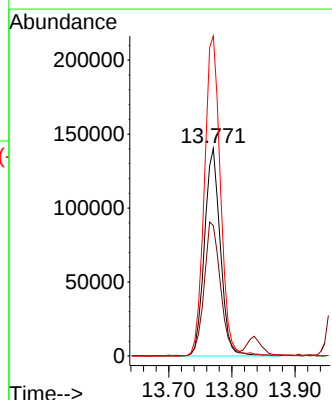
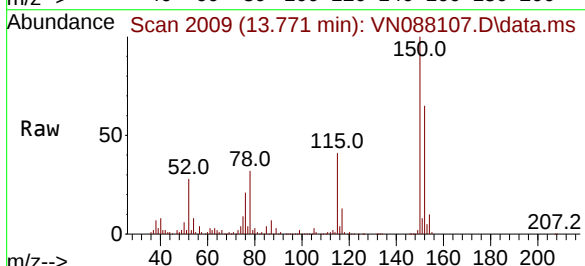
Tgt Ion:152 Resp: 244578

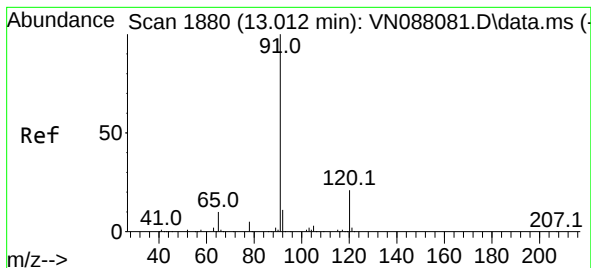
Ion Ratio Lower Upper

152 100

115 66.4 32.3 96.8

150 156.6 0.0 351.0





#78

n-propylbenzene

Concen: 1.568 ug/l

RT: 13.012 min Scan# 1880

Delta R.T. -0.000 min

Lab File: VN088107.D

Acq: 27 Oct 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

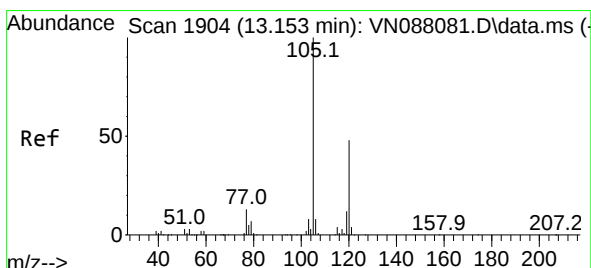
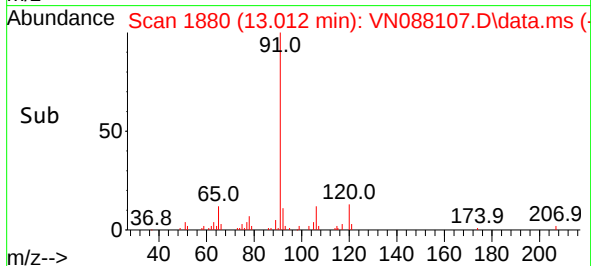
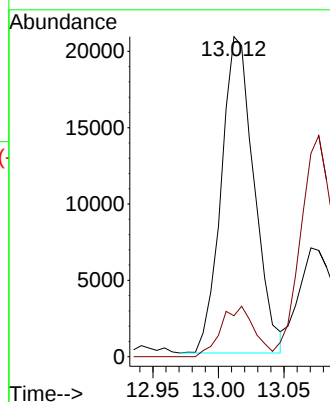
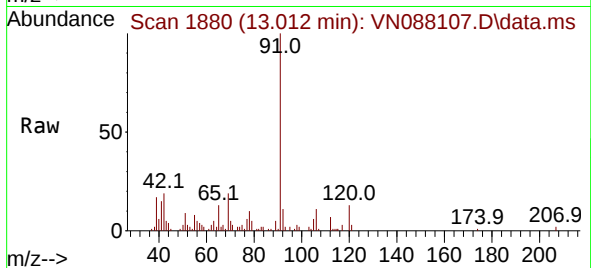
101625

Tgt Ion: 91 Resp: 36089

Ion Ratio Lower Upper

91 100

120 16.1 10.7 32.1



#80

1,3,5-Trimethylbenzene

Concen: 4.915 ug/l

RT: 13.153 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VN088107.D

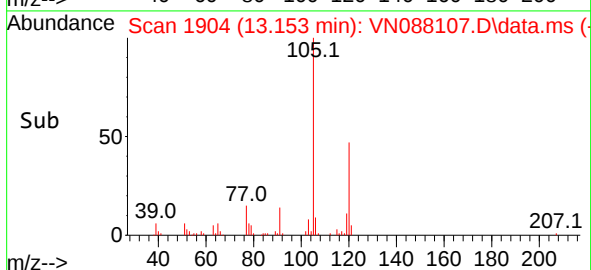
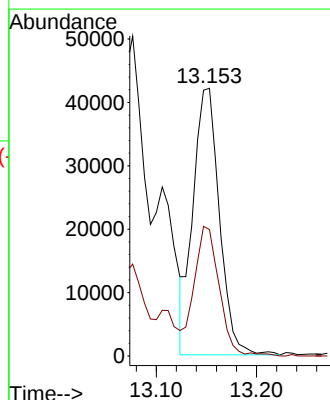
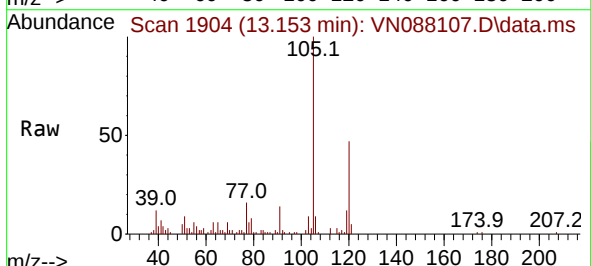
Acq: 27 Oct 2025 12:50

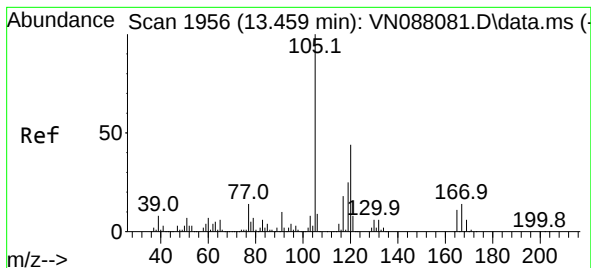
Tgt Ion: 105 Resp: 76995

Ion Ratio Lower Upper

105 100

120 46.5 23.2 69.6





#84

1,2,4-Trimethylbenzene

Concen: 14.516 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN088107.D

Acq: 27 Oct 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

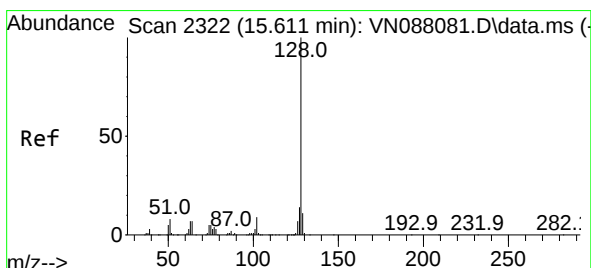
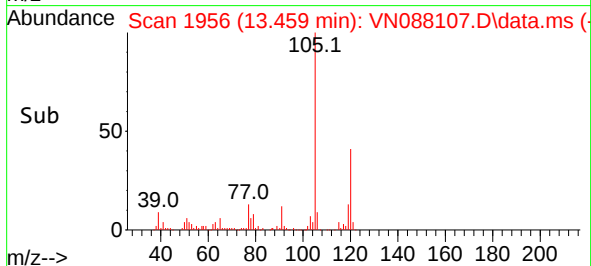
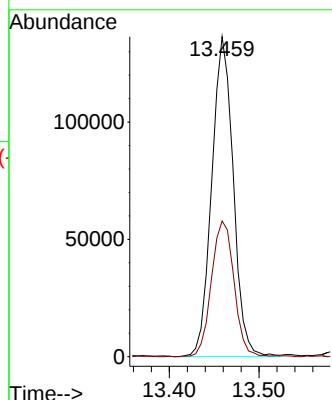
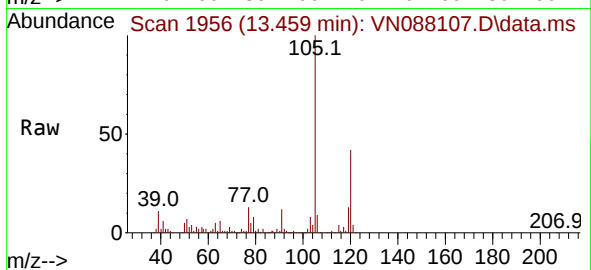
101625

Tgt Ion:105 Resp: 227524

Ion Ratio Lower Upper

105 100

120 44.6 22.0 66.0



#95

Naphthalene

Concen: 787.069 ug/l

RT: 15.612 min Scan# 2322

Delta R.T. 0.000 min

Lab File: VN088107.D

Acq: 27 Oct 2025 12:50

Tgt Ion:128 Resp:12781980

Ion Ratio Lower Upper

128 100

127 13.2 10.6 15.8

129 11.2 8.6 12.8

