

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102825\
 Data File : VN088139.D
 Acq On : 28 Oct 2025 15:01
 Operator : JC\MD
 Sample : Q3468-02DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-08DL

Manual Integrations
 APPROVED

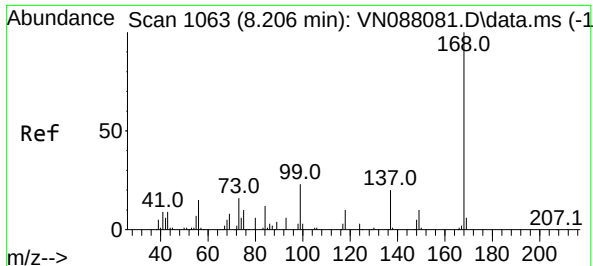
Reviewed By :John Carlone 10/29/2025
 Supervised By :Semsettin Yesilyurt 10/29/2025

Quant Time: Oct 29 02:26:03 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)

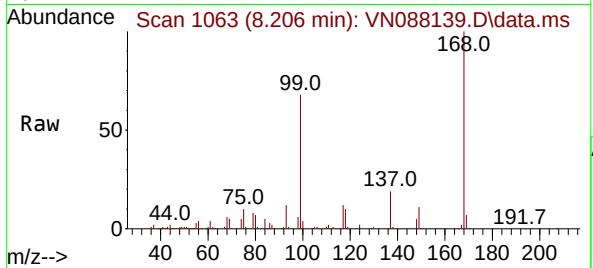
Internal Standards						
1) Pentafluorobenzene	8.206	168	288822	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	647245	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	618817	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	311106	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	279729	56.009	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.020%			
35) Dibromofluoromethane	8.147	113	203668	46.839	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.680%			
50) Toluene-d8	10.547	98	755025	45.064	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 90.120%			
62) 4-Bromofluorobenzene	12.829	95	312196	52.762	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.520%			
Target Compounds					Qvalue	
31) Cyclohexane	8.241	56	13225m	1.892	ug/l	
39) Methylcyclohexane	9.582	83	9340	1.145	ug/l	90
40) Benzene	8.588	78	147846	7.646	ug/l	96
52) Toluene	10.606	92	9825	0.824	ug/l	88
67) Ethyl Benzene	11.941	91	173788	7.046	ug/l	99
68) m/p-Xylenes	12.053	106	176364	19.084	ug/l	98
69) o-Xylene	12.376	106	137198	15.661	ug/l	99
73) Isopropylbenzene	12.676	105	16878	0.703	ug/l	95
78) n-propylbenzene	13.018	91	33909	1.158	ug/l	99
80) 1,3,5-Trimethylbenzene	13.147	105	20296m	1.018	ug/l	
84) 1,2,4-Trimethylbenzene	13.459	105	454380	22.790	ug/l	100
95) Naphthalene	15.611	128	266676m	12.909	ug/l	

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



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01

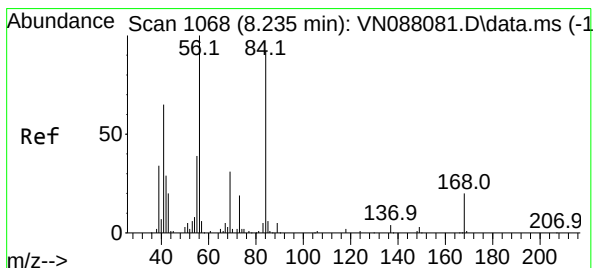
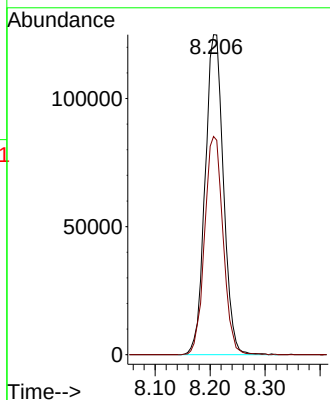
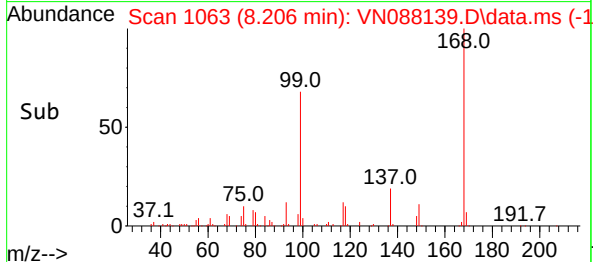
Instrument :
MSVOA_N
ClientSampleId :
MW-08DL



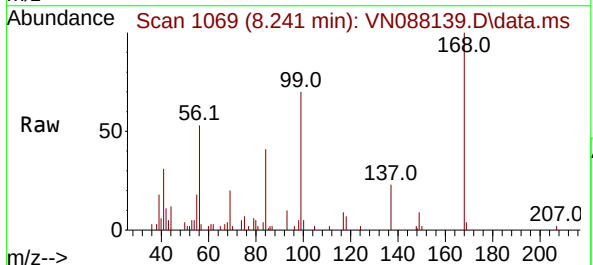
Tgt Ion:168 Resp: 28882
Ion Ratio Lower Upper
168 100
99 68.2 57.2 85.8

Manual Integrations
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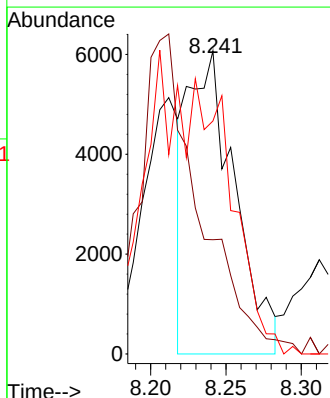
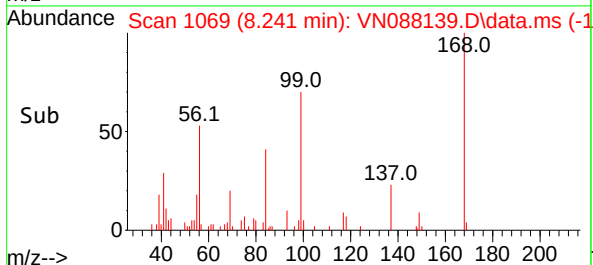
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025

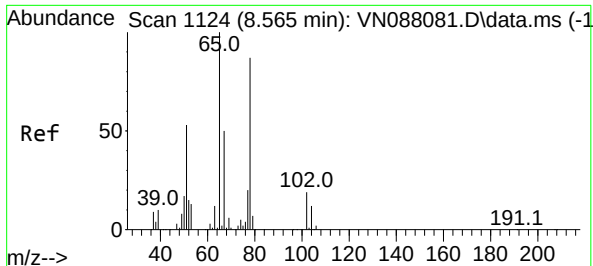


#31
Cyclohexane
Concen: 1.892 ug/l m
RT: 8.241 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01



Tgt Ion: 56 Resp: 13225
Ion Ratio Lower Upper
56 100
69 37.7 23.7 35.5#
84 76.9 64.7 97.1





#33

1,2-Dichloroethane-d4

Concen: 56.009 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088139.D

Acq: 28 Oct 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

MW-08DL

Tgt Ion: 65 Resp: 279729

Ion Ratio Lower Upper

65 100

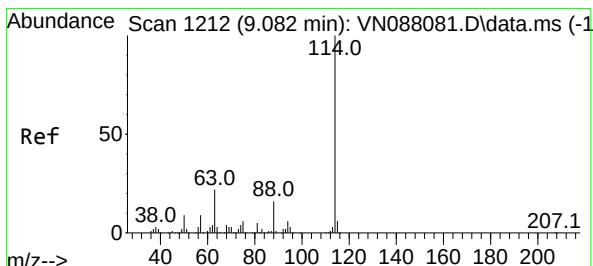
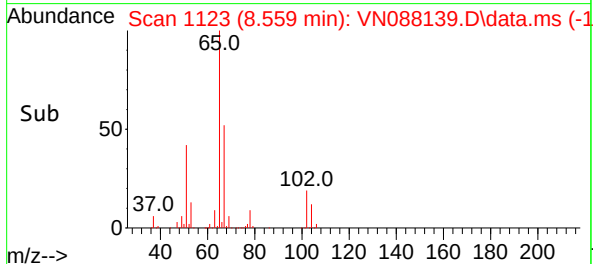
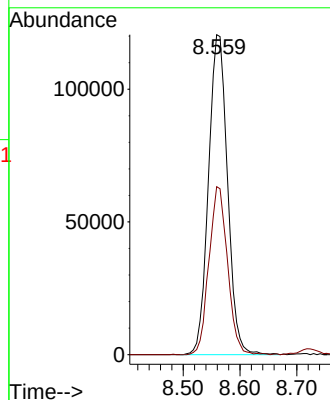
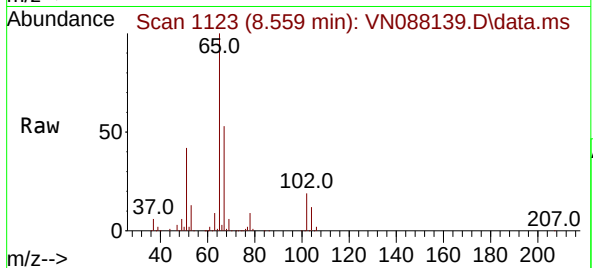
67 51.4 0.0 100.0

Manual Integrations

APPROVED

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088139.D

Acq: 28 Oct 2025 15:01

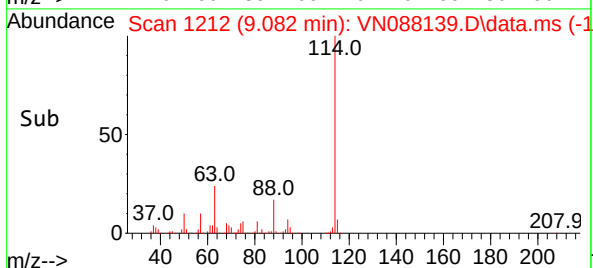
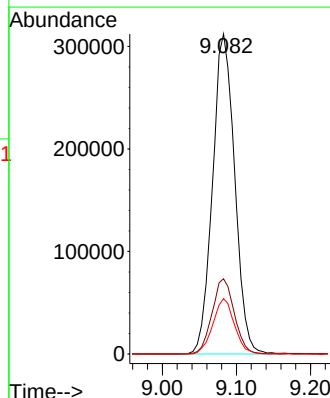
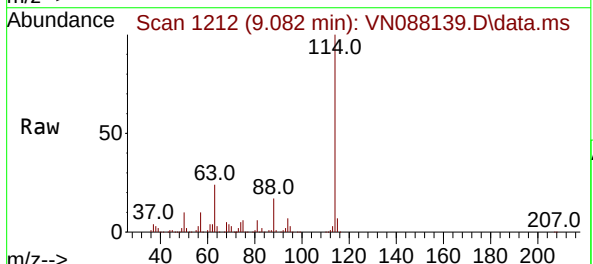
Tgt Ion:114 Resp: 647245

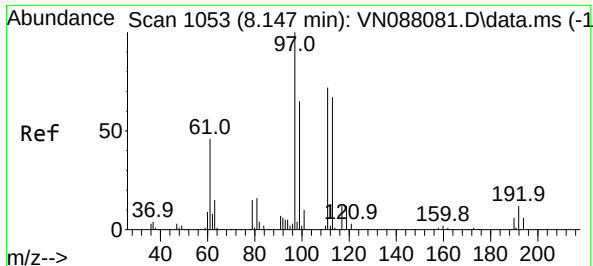
Ion Ratio Lower Upper

114 100

63 23.5 0.0 45.2

88 17.3 0.0 33.4





#35

Dibromofluoromethane

Concen: 46.839 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088139.D

Acq: 28 Oct 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

MW-08DL

Tgt Ion:113 Resp: 20366

Ion Ratio Lower Upper

113 100

111 105.6 82.8 124.2

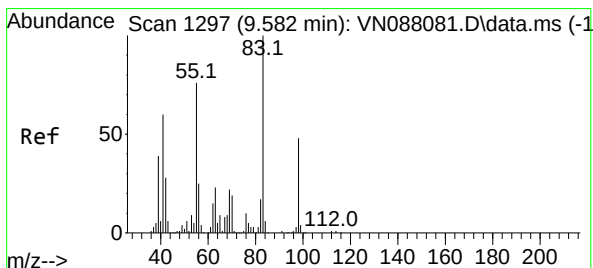
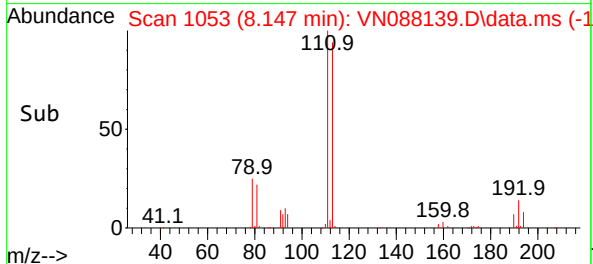
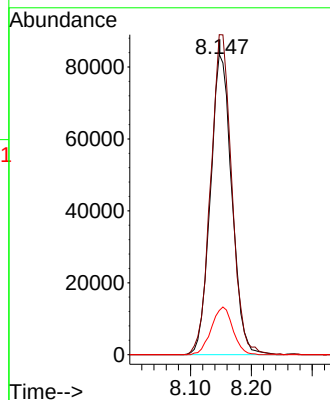
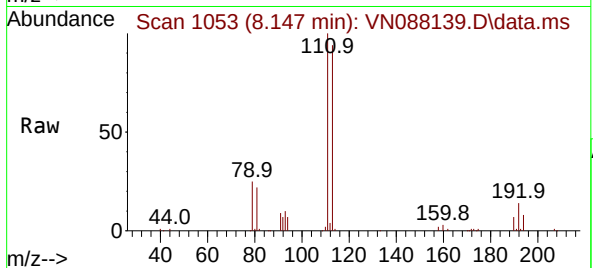
192 16.0 12.8 19.2

Manual Integrations

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#39

Methylcyclohexane

Concen: 1.145 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. -0.000 min

Lab File: VN088139.D

Acq: 28 Oct 2025 15:01

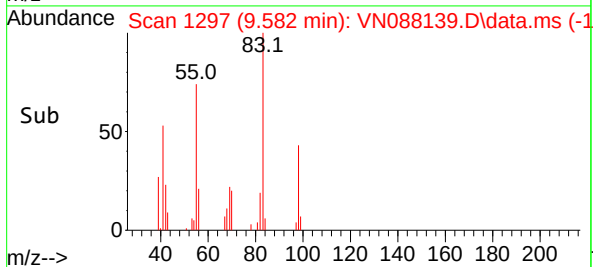
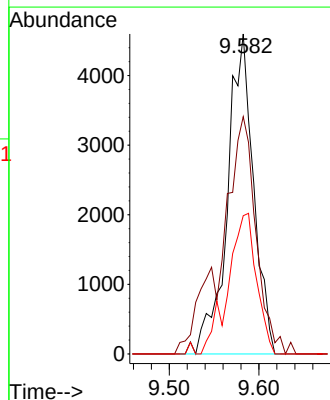
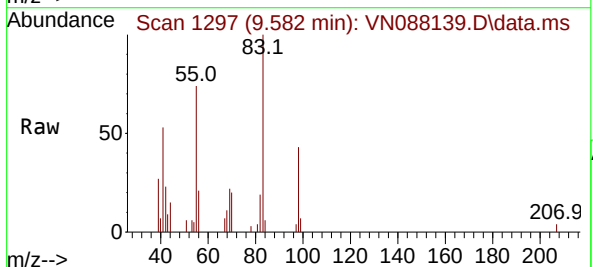
Tgt Ion: 83 Resp: 9340

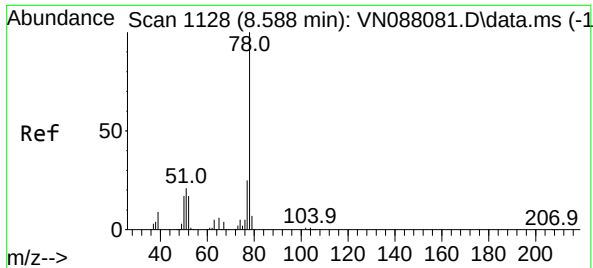
Ion Ratio Lower Upper

83 100

55 70.5 64.6 96.8

98 43.2 38.4 57.6





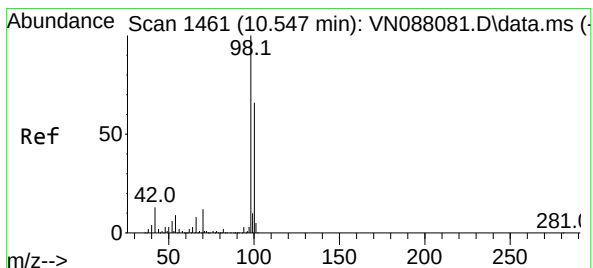
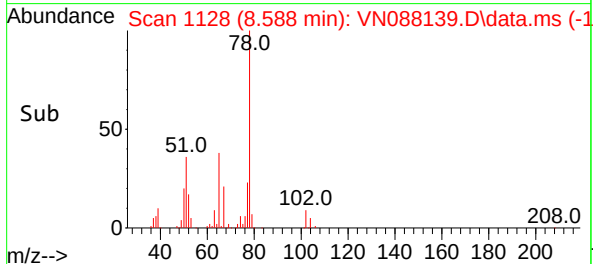
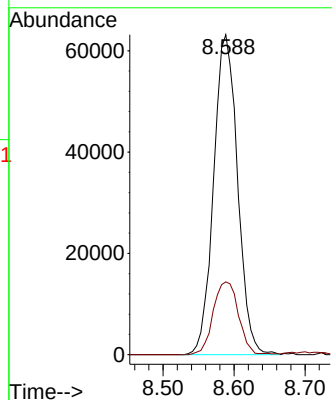
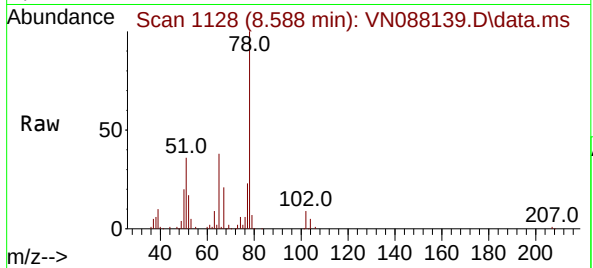
#40
Benzene
Concen: 7.646 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01

Instrument :
MSVOA_N
ClientSampleId :
MW-08DL

Tgt Ion: 78 Resp: 147840
Ion Ratio Lower Upper
78 100
77 22.8 19.7 29.5

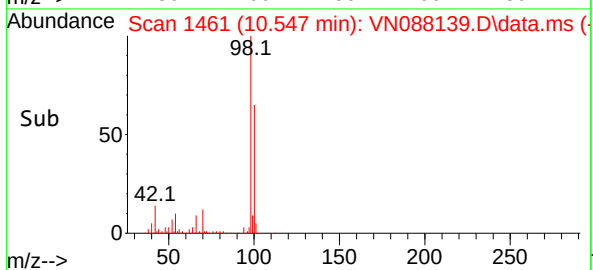
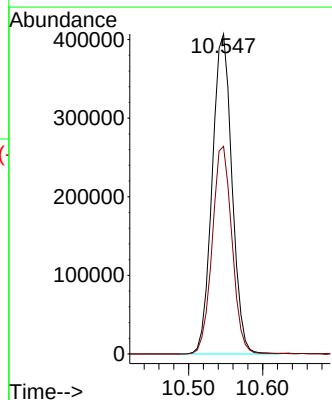
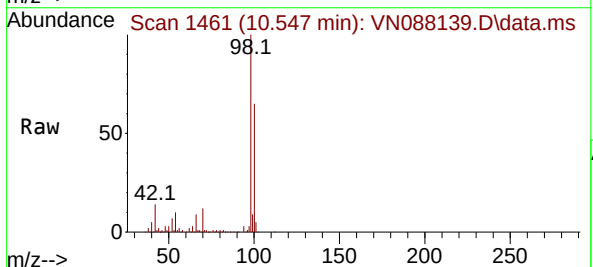
Manual Integrations
APPROVED

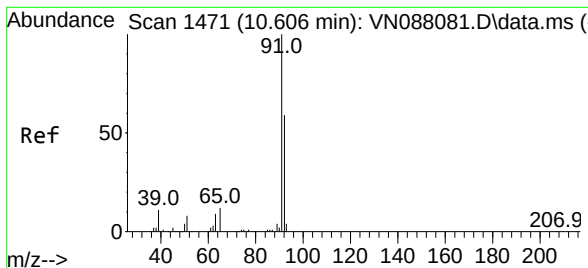
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#50
Toluene-d8
Concen: 45.064 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01

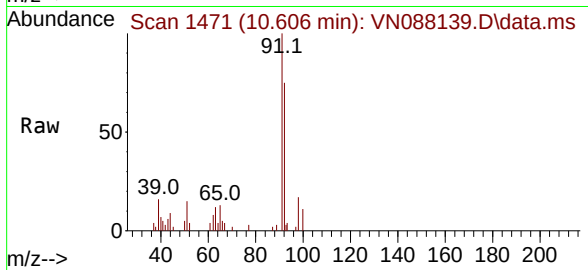
Tgt Ion: 98 Resp: 755025
Ion Ratio Lower Upper
98 100
100 65.0 52.8 79.2





#52
Toluene
Concen: 0.824 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01

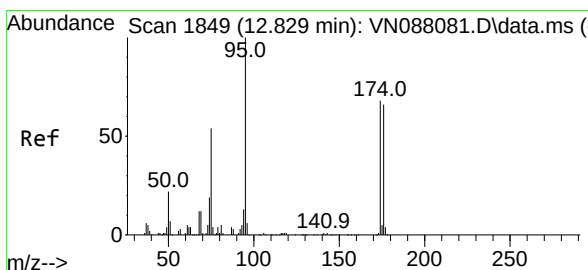
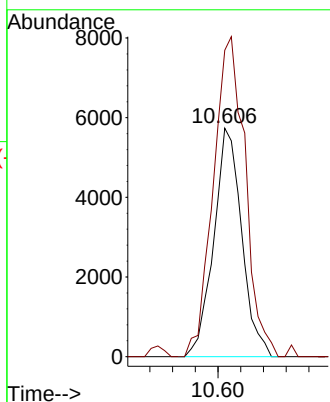
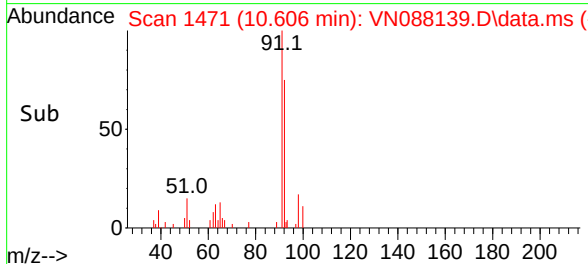
Instrument :
MSVOA_N
ClientSampleId :
MW-08DL



Tgt Ion: 92 Resp: 9825
Ion Ratio Lower Upper
92 100
91 159.2 140.4 210.6

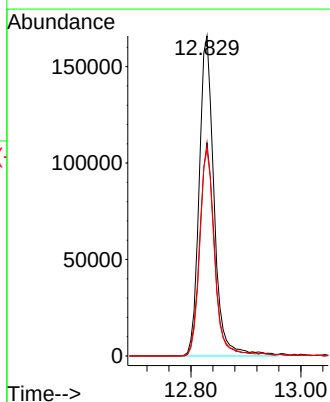
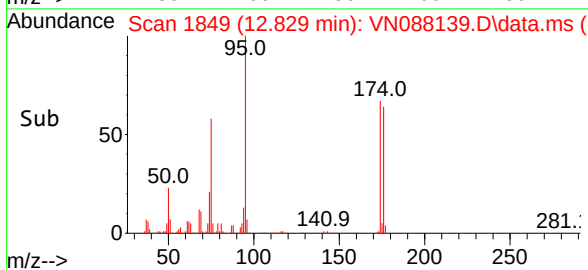
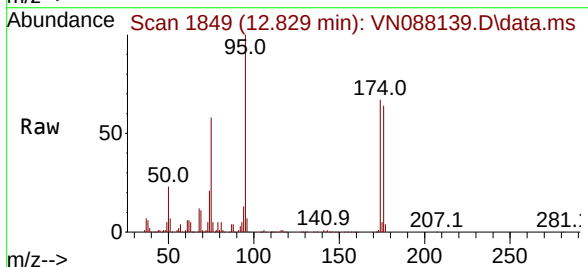
Manual Integrations
APPROVED

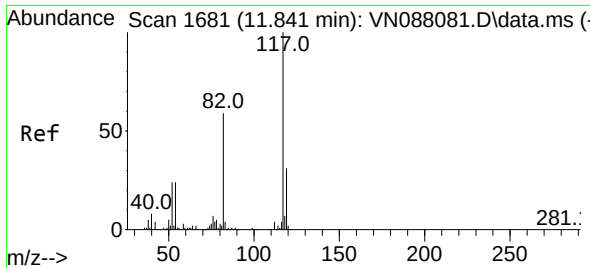
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#62
4-Bromofluorobenzene
Concen: 52.762 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01

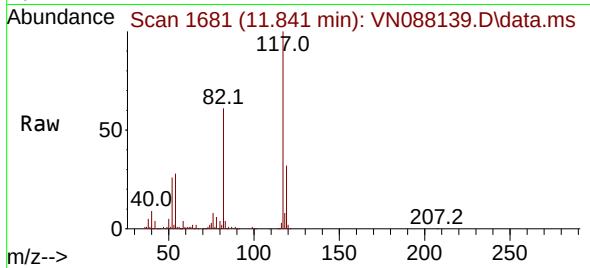
Tgt Ion: 95 Resp: 312196
Ion Ratio Lower Upper
95 100
174 66.0 0.0 138.4
176 63.9 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01

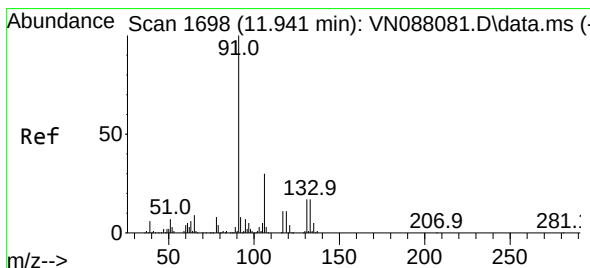
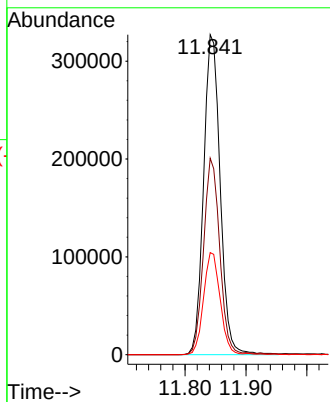
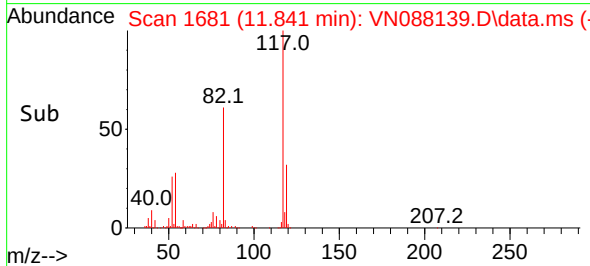
Instrument :
MSVOA_N
ClientSampleId :
MW-08DL



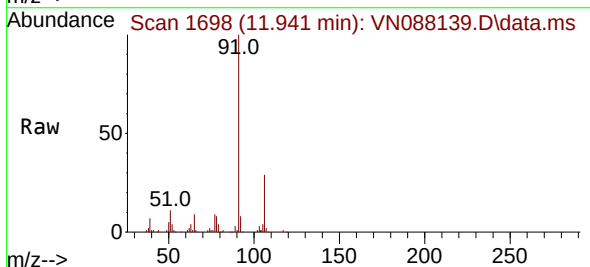
Tgt Ion: 117 Resp: 61881
Ion Ratio Lower Upper
117 100
82 61.4 47.4 71.2
119 31.9 24.3 36.5

Manual Integrations
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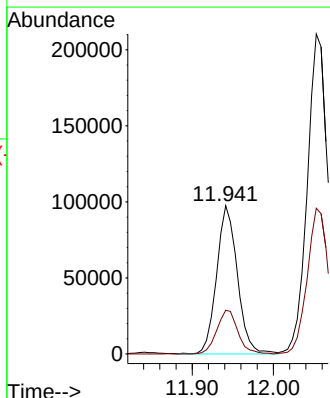
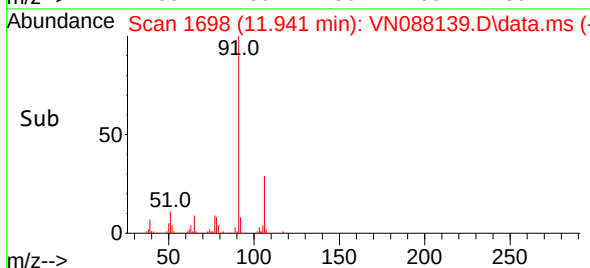
Reviewed By :John Carlone 10/29/2025
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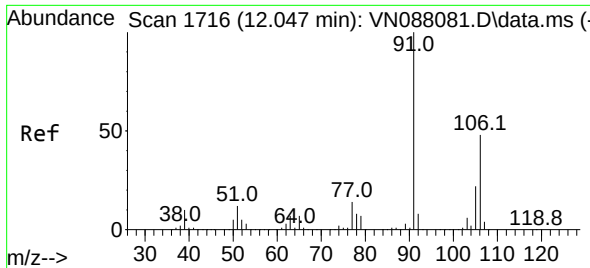


#67
Ethyl Benzene
Concen: 7.046 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01



Tgt Ion: 91 Resp: 173788
Ion Ratio Lower Upper
91 100
106 29.4 24.1 36.1





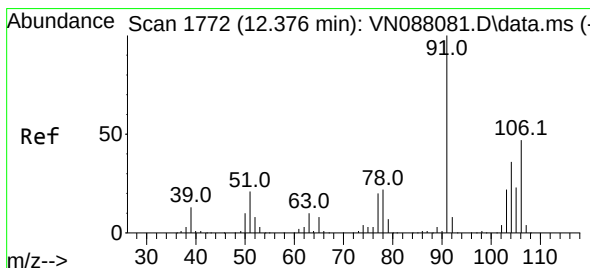
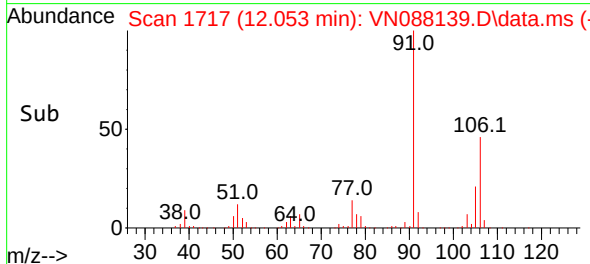
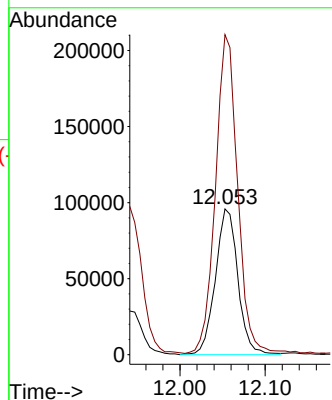
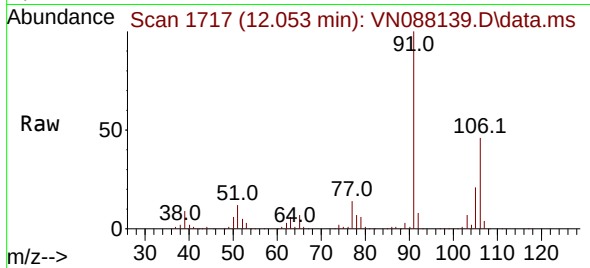
#68
m/p-Xylenes
Concen: 19.084 ug/l
RT: 12.053 min Scan# 1716
Delta R.T. 0.006 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01

Instrument :
MSVOA_N
ClientSampleId :
MW-08DL

Tgt Ion:106 Resp: 176364
Ion Ratio Lower Upper
106 100
91 215.0 169.3 253.9

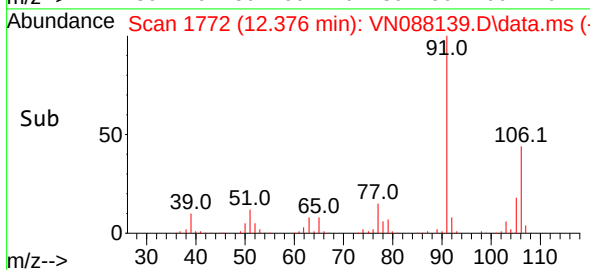
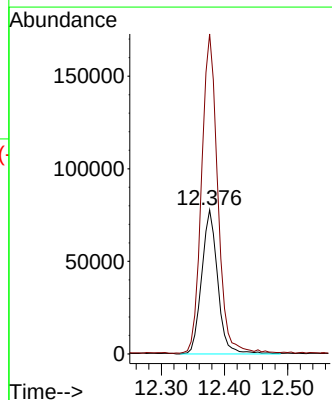
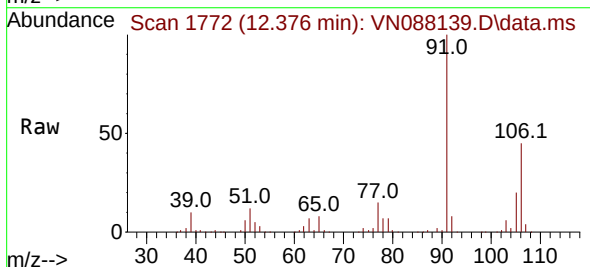
Manual Integrations
APPROVED

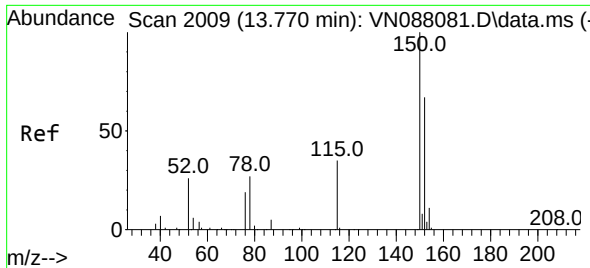
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#69
o-Xylene
Concen: 15.661 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01

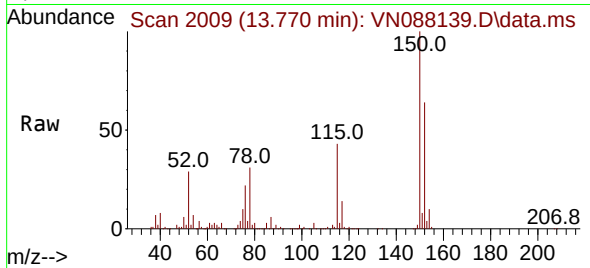
Tgt Ion:106 Resp: 137198
Ion Ratio Lower Upper
106 100
91 221.4 111.4 334.2





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01

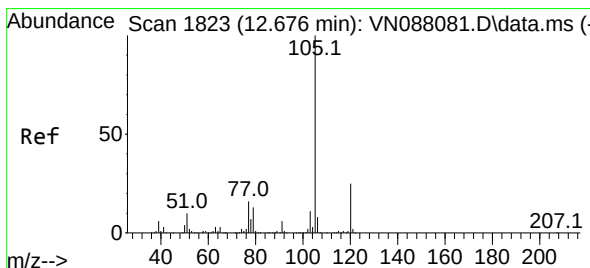
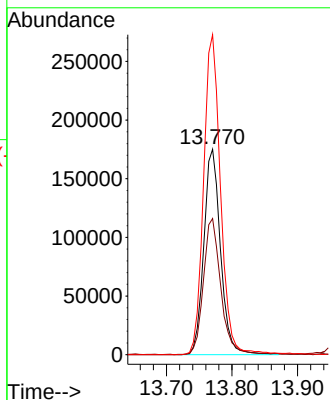
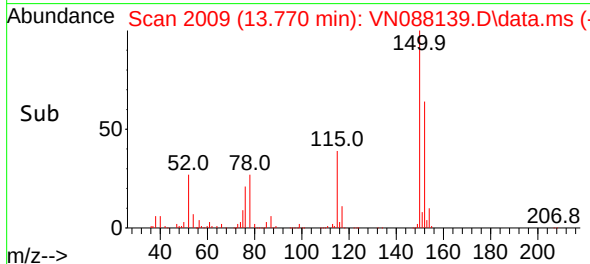
Instrument :
MSVOA_N
ClientSampleId :
MW-08DL



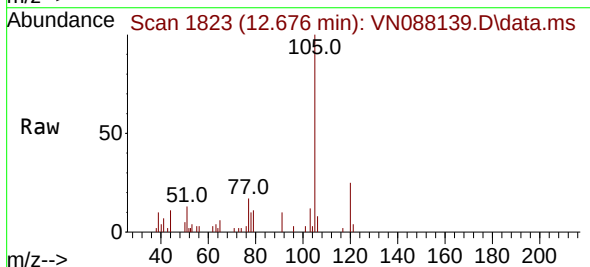
Tgt Ion:152 Resp: 311100
Ion Ratio Lower Upper
152 100
115 69.4 32.3 96.8
150 158.6 0.0 351.0

Manual Integrations
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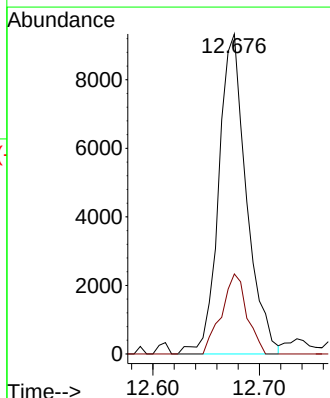
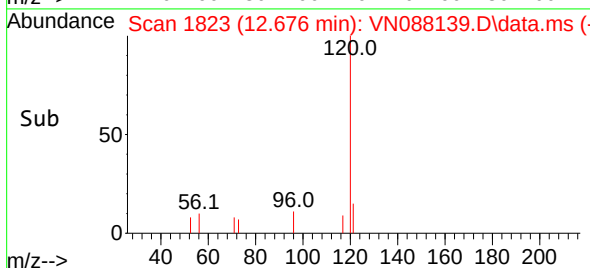
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025

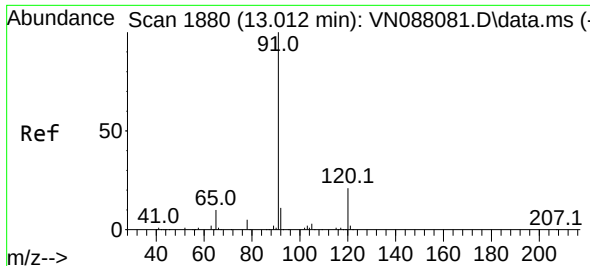


#73
Isopropylbenzene
Concen: 0.703 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01



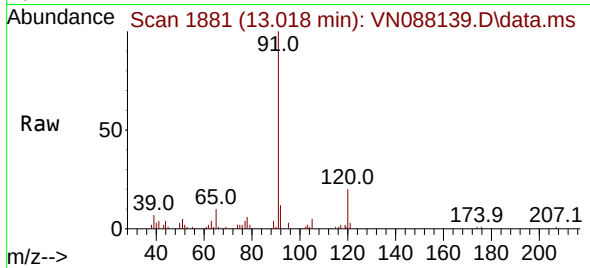
Tgt Ion:105 Resp: 16878
Ion Ratio Lower Upper
105 100
120 22.8 12.8 38.3





#78
n-propylbenzene
Concen: 1.158 ug/l
RT: 13.018 min Scan# 1880
Delta R.T. 0.006 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01

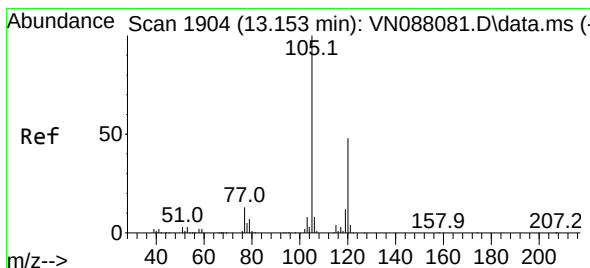
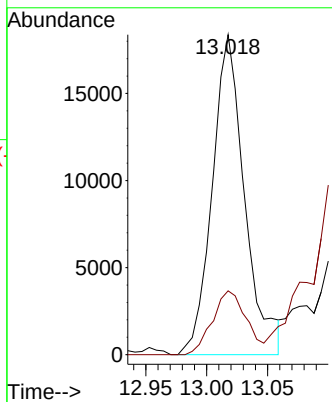
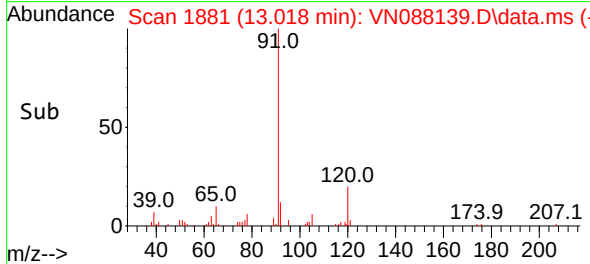
Instrument :
MSVOA_N
ClientSampleId :
MW-08DL



Tgt Ion: 91 Resp: 33909
Ion Ratio Lower Upper
91 100
120 21.1 10.7 32.1

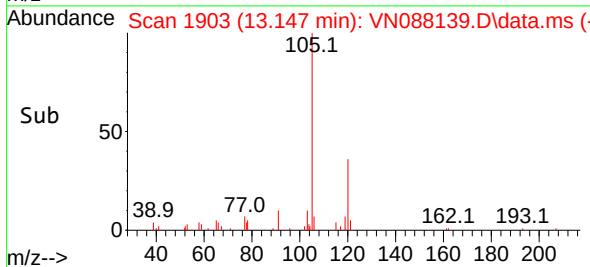
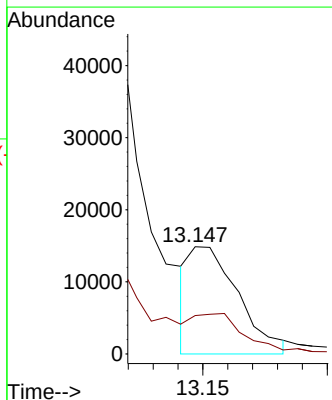
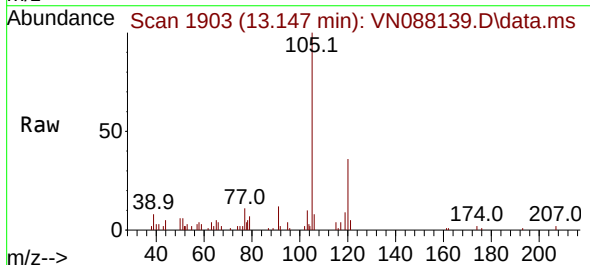
Manual Integrations
APPROVED

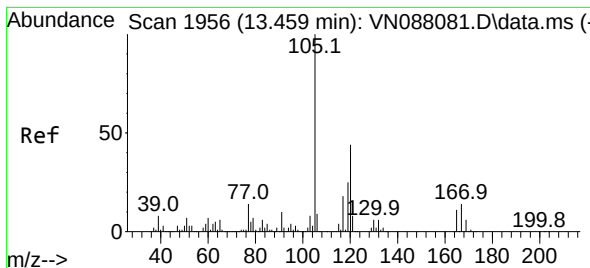
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#80
1,3,5-Trimethylbenzene
Concen: 1.018 ug/l m
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088139.D
Acq: 28 Oct 2025 15:01

Tgt Ion:105 Resp: 20296
Ion Ratio Lower Upper
105 100
120 0.0 23.2 69.6#





#84

1,2,4-Trimethylbenzene

Concen: 22.790 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VN088139.D

Acq: 28 Oct 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

MW-08DL

Tgt Ion:105 Resp: 454380

Ion Ratio Lower Upper

105 100

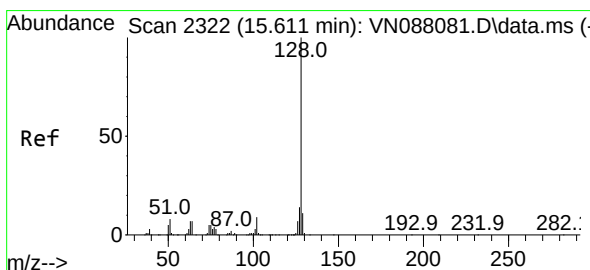
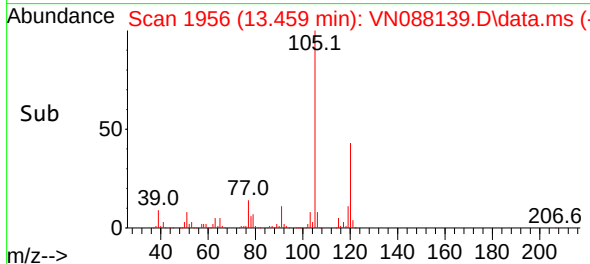
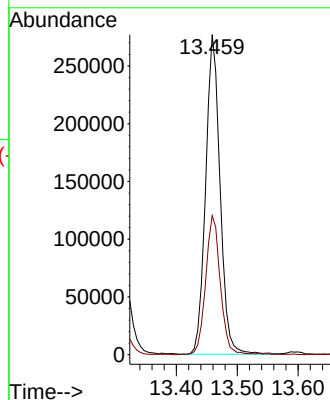
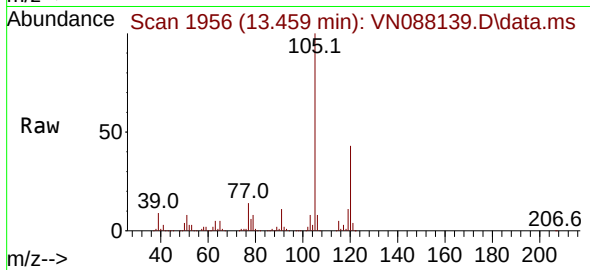
120 44.3 22.0 66.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/29/2025

Supervised By :Semsettin Yesilyurt 10/29/2025



#95

Naphthalene

Concen: 12.909 ug/l m

RT: 15.611 min Scan# 2322

Delta R.T. -0.000 min

Lab File: VN088139.D

Acq: 28 Oct 2025 15:01

Tgt Ion:128 Resp: 266676

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#

