

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102825\
 Data File : VN088140.D
 Acq On : 28 Oct 2025 15:22
 Operator : JC\MD
 Sample : Q3468-02DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 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 02:26:31 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	264918	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	606658	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	578519	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	291309	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	261287	57.037	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.080%			
35) Dibromofluoromethane	8.147	113	191286	46.935	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.860%			
50) Toluene-d8	10.547	98	704493	44.861	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 89.720%			
62) 4-Bromofluorobenzene	12.829	95	290199	52.326	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.660%			
Target Compounds					Qvalue	
16) Acetone	4.418	43	13340	5.796	ug/l	95
25) 2-Butanone	7.477	43	6923m	2.283	ug/l	
31) Cyclohexane	8.241	56	57278	8.932	ug/l	90
39) Methylcyclohexane	9.577	83	32273	4.219	ug/l	96
40) Benzene	8.588	78	566174	31.241	ug/l	99
52) Toluene	10.606	92	26800	2.399	ug/l	97
67) Ethyl Benzene	11.941	91	601841	26.101	ug/l	99
68) m/p-Xylenes	12.053	106	691823	80.076	ug/l	99
69) o-Xylene	12.376	106	533803	65.177	ug/l	99
73) Isopropylbenzene	12.676	105	61991	2.759	ug/l	99
78) n-propylbenzene	13.017	91	118405	4.318	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	65932	3.533	ug/l	85
84) 1,2,4-Trimethylbenzene	13.459	105	1746252	93.536	ug/l	99
85) sec-Butylbenzene	13.588	105	11594m	0.473	ug/l	
86) p-Isopropyltoluene	13.712	119	7870	0.401	ug/l #	75
89) n-Butylbenzene	14.023	91	10351m	0.532	ug/l	
95) Naphthalene	15.611	128	987246m	51.039	ug/l	

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

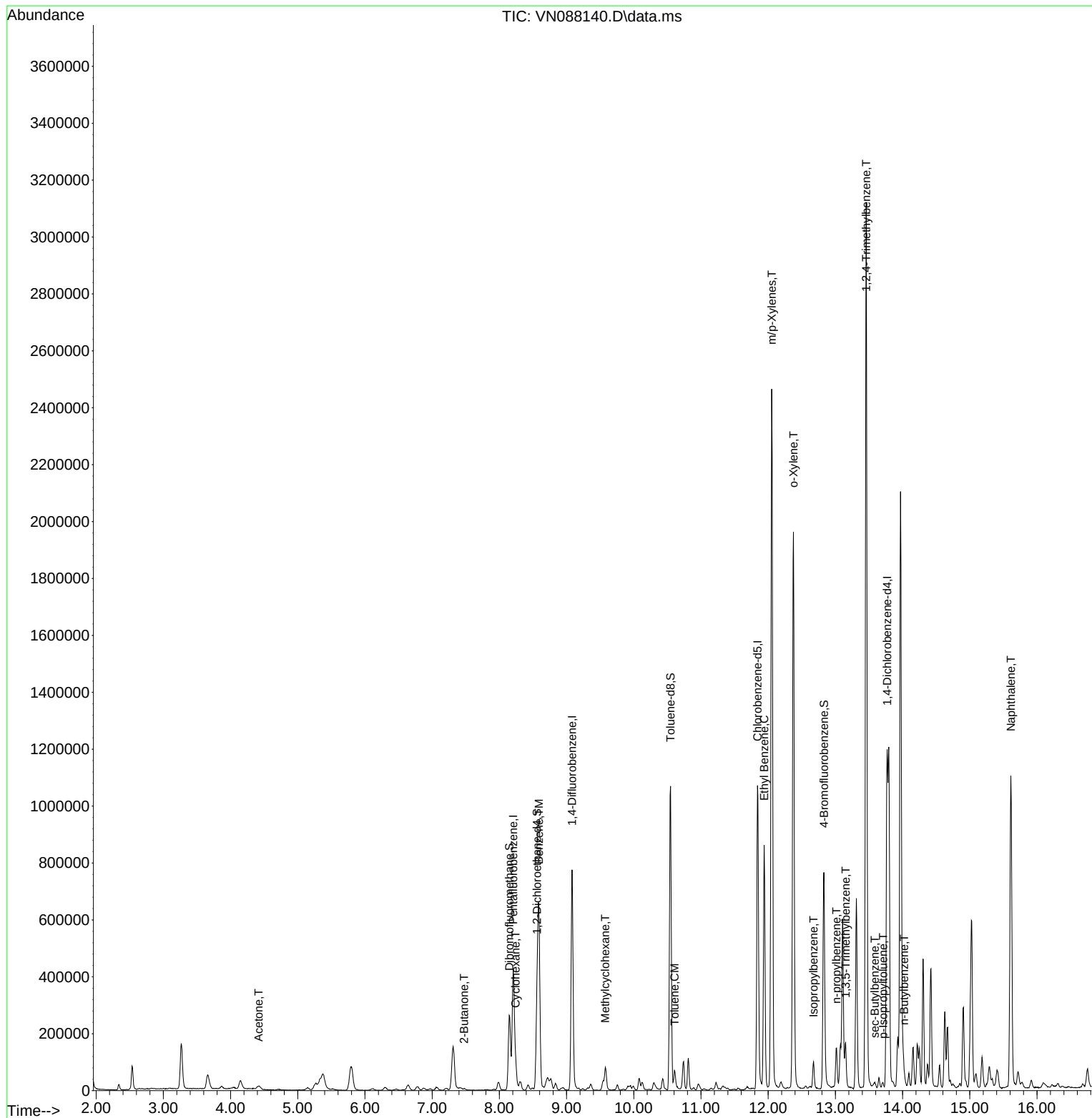
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102825\
Data File : VN088140.D
Acq On : 28 Oct 2025 15:22
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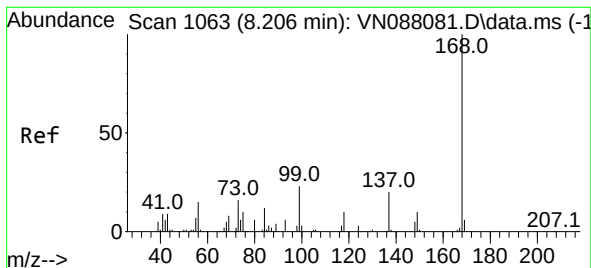
Instrument :
MSVOA_N
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MW-08DL

Quant Time: Oct 29 02:26:31 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

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APPROVED

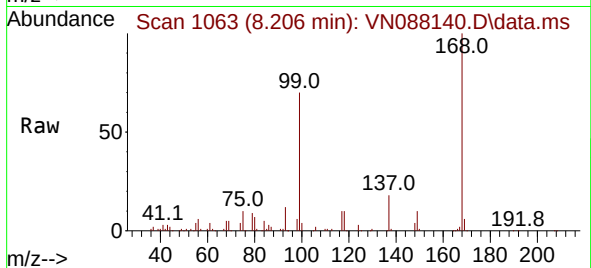
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

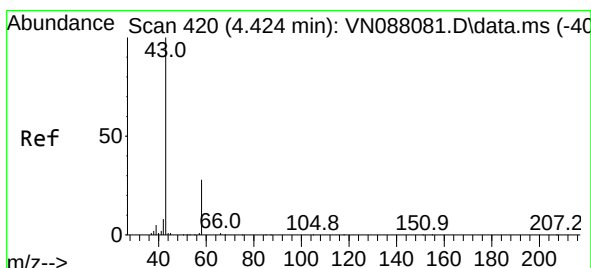
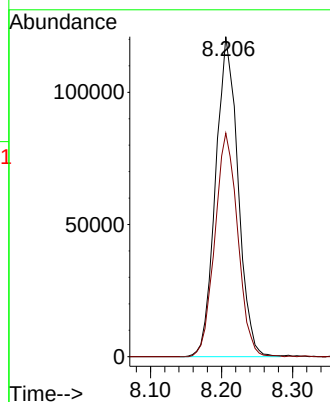
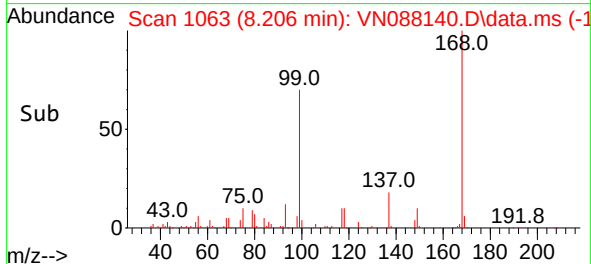
Instrument :
MSVOA_N
ClientSampleId :
MW-08DL



Tgt Ion:168 Resp: 264918
Ion Ratio Lower Upper
168 100
99 69.9 57.2 85.8

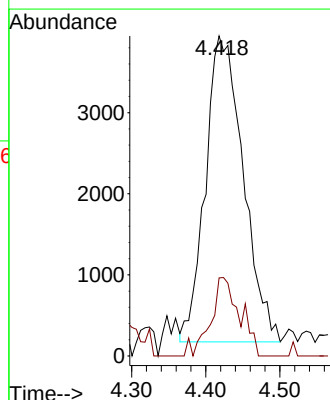
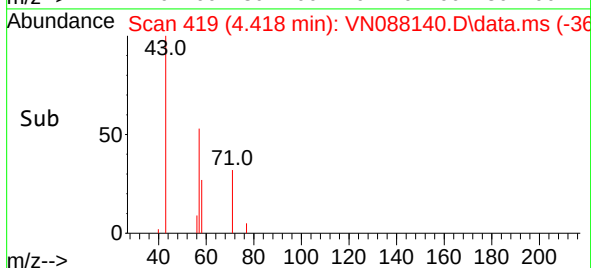
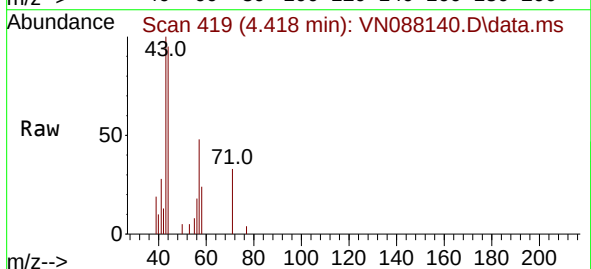
Manual Integrations
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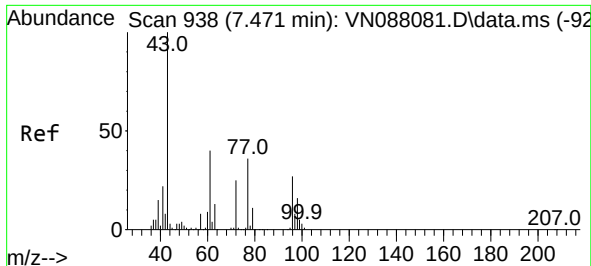
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#16
Acetone
Concen: 5.796 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

Tgt Ion: 43 Resp: 13340
Ion Ratio Lower Upper
43 100
58 25.6 22.6 33.8





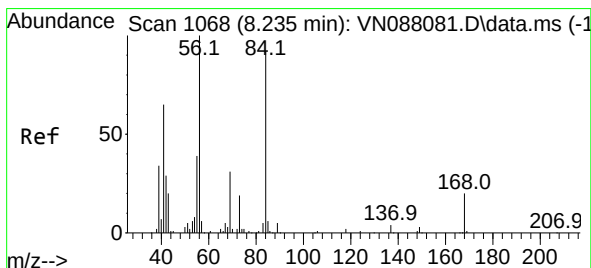
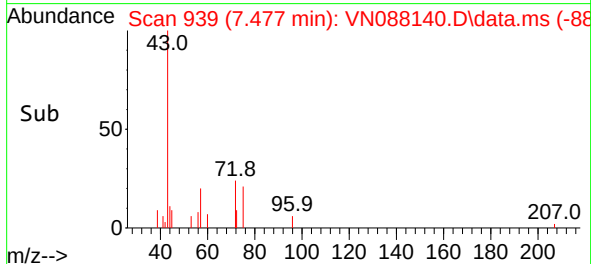
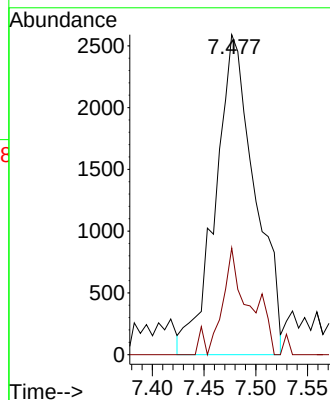
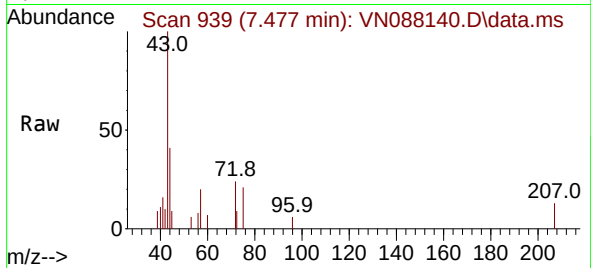
#25
2-Butanone
Concen: 2.283 ug/l m
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

Instrument :
MSVOA_N
ClientSampleId :
MW-08DL

Tgt Ion: 43 Resp: 692
Ion Ratio Lower Upper
43 100
72 24.2 19.9 29.9

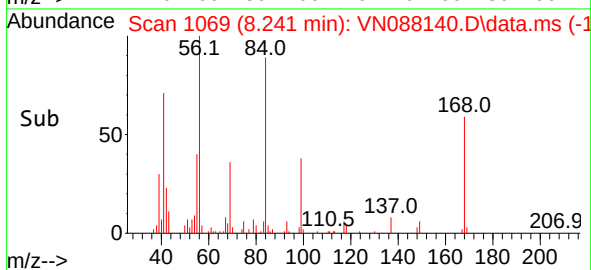
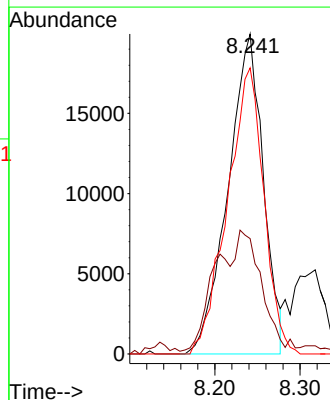
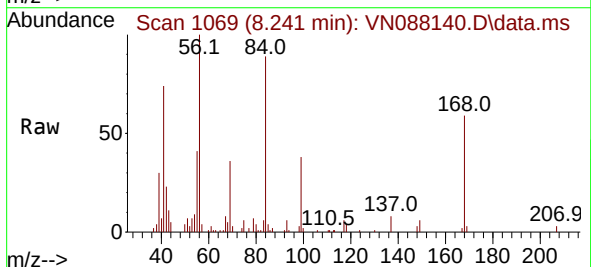
Manual Integrations
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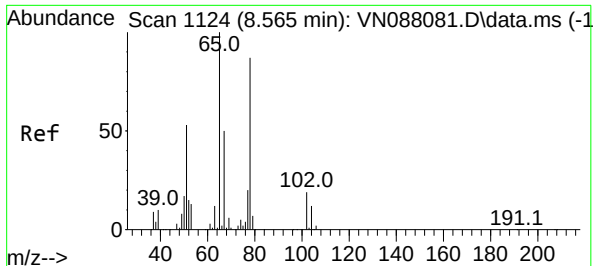
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#31
Cyclohexane
Concen: 8.932 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

Tgt Ion: 56 Resp: 57278
Ion Ratio Lower Upper
56 100
69 35.2 23.7 35.5
84 89.4 64.7 97.1





#33

1,2-Dichloroethane-d4

Concen: 57.037 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088140.D

Acq: 28 Oct 2025 15:22

Instrument :

MSVOA_N

ClientSampleId :

MW-08DL

Tgt Ion: 65 Resp: 26128

Ion Ratio Lower Upper

65 100

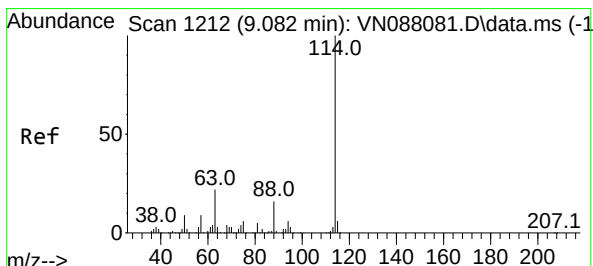
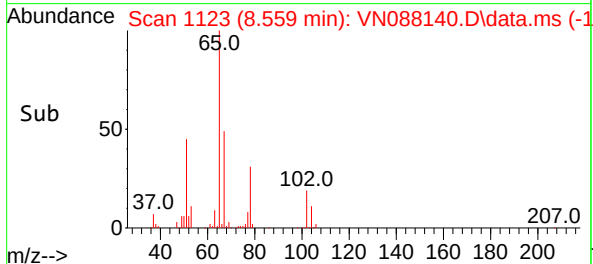
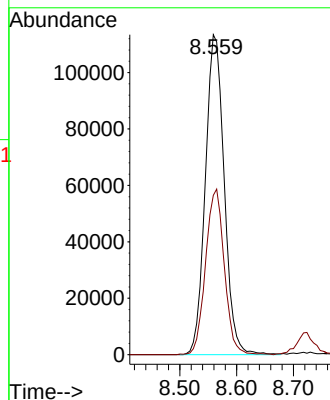
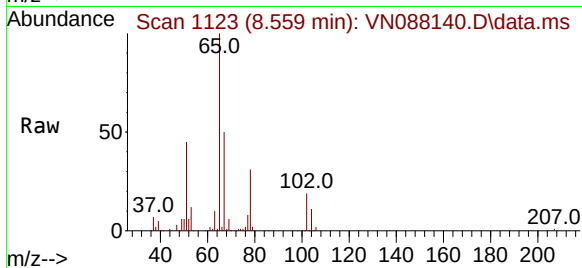
67 51.4 0.0 100.0

Manual Integrations

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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: VN088140.D

Acq: 28 Oct 2025 15:22

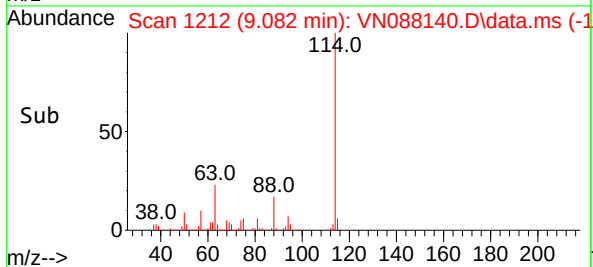
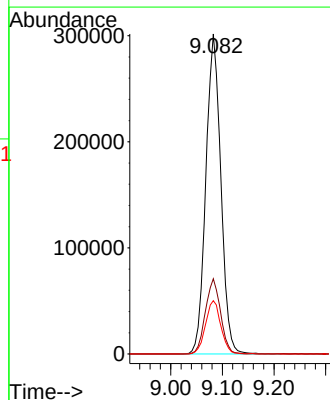
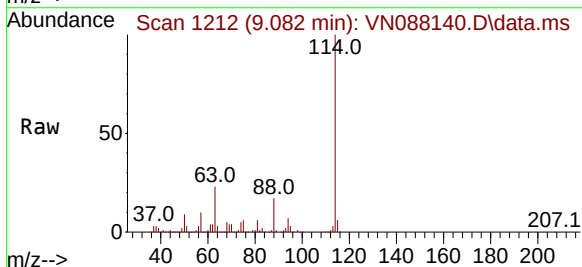
Tgt Ion:114 Resp: 606658

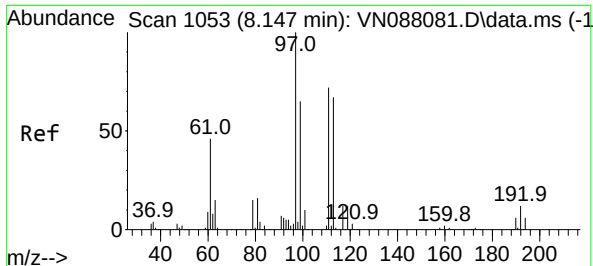
Ion Ratio Lower Upper

114 100

63 23.5 0.0 45.2

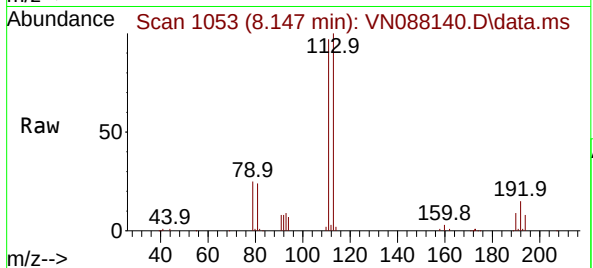
88 16.6 0.0 33.4





#35
Dibromofluoromethane
Concen: 46.935 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

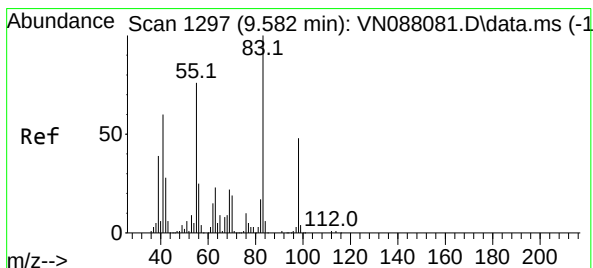
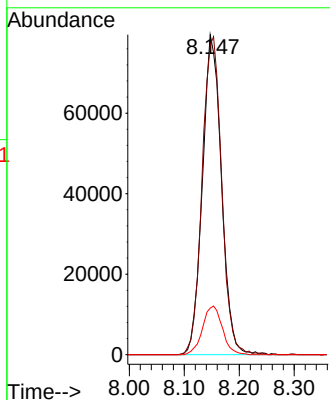
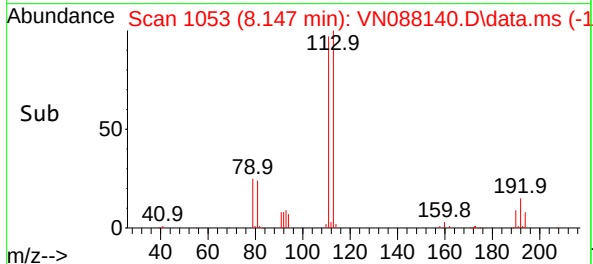
Instrument :
MSVOA_N
ClientSampleId :
MW-08DL



Tgt Ion: 113 Resp: 191280
Ion Ratio Lower Upper
113 100
111 101.7 82.8 124.2
192 15.9 12.8 19.2

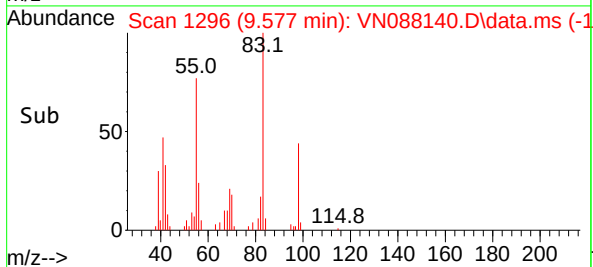
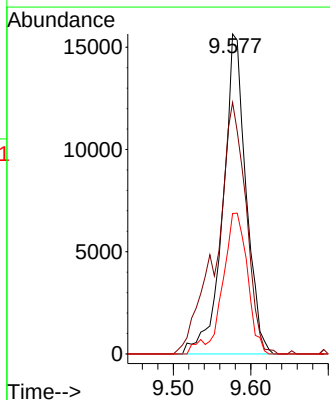
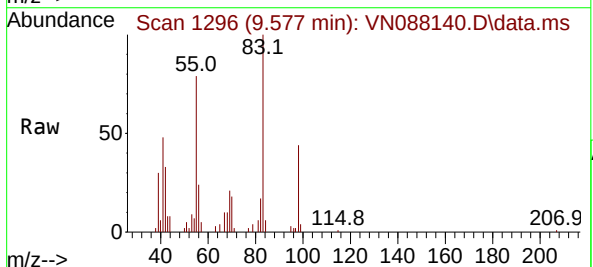
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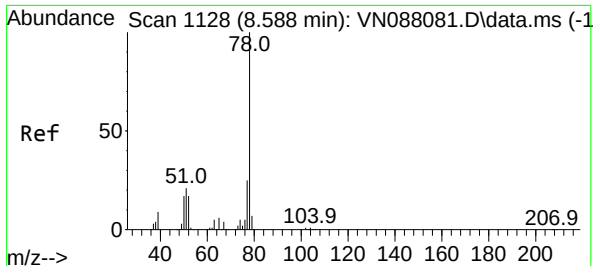
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#39
Methylcyclohexane
Concen: 4.219 ug/l
RT: 9.577 min Scan# 1296
Delta R.T. -0.006 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

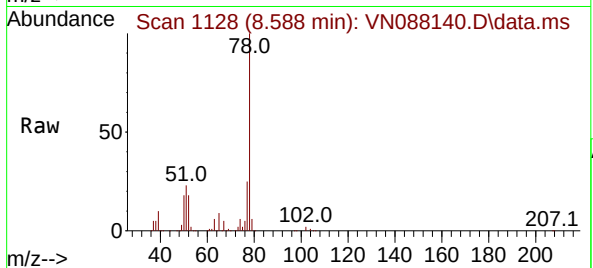
Tgt Ion: 83 Resp: 32273
Ion Ratio Lower Upper
83 100
55 78.6 64.6 96.8
98 43.9 38.4 57.6





#40
Benzene
Concen: 31.241 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

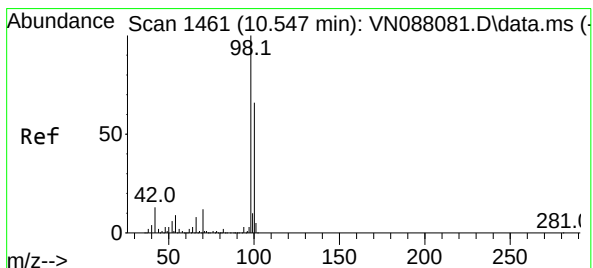
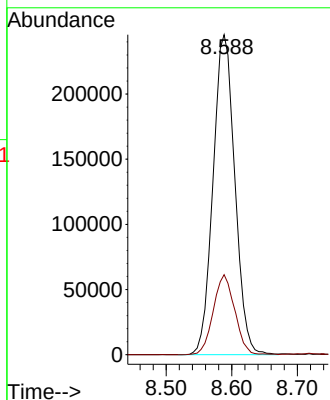
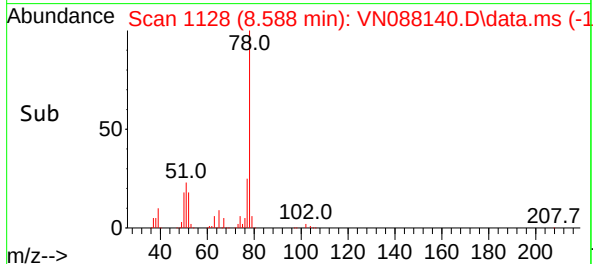
Instrument :
MSVOA_N
ClientSampleId :
MW-08DL



Tgt Ion: 78 Resp: 566174
Ion Ratio Lower Upper
78 100
77 25.0 19.7 29.5

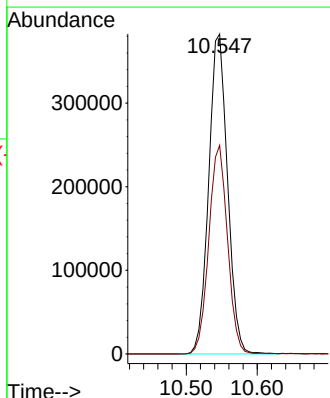
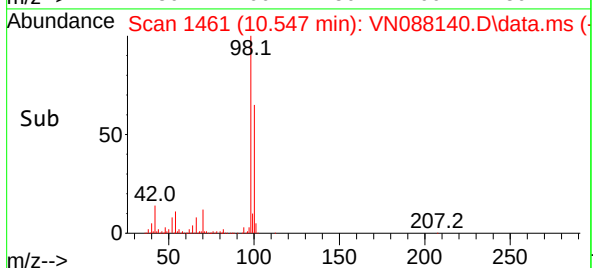
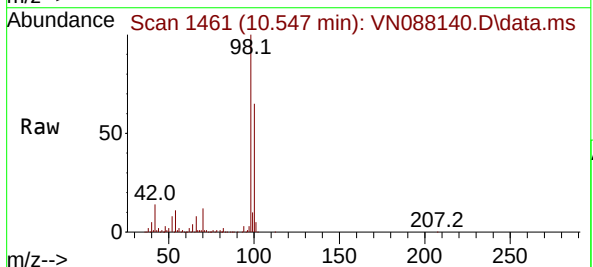
Manual Integrations
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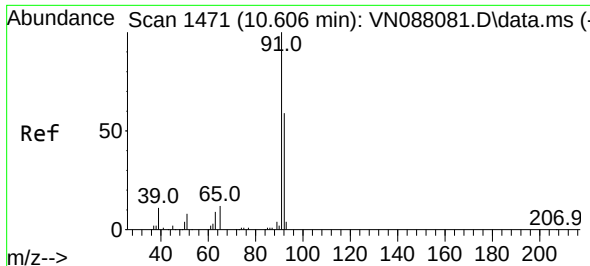
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#50
Toluene-d8
Concen: 44.861 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

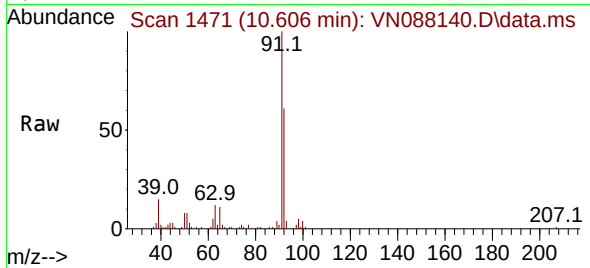
Tgt Ion: 98 Resp: 704493
Ion Ratio Lower Upper
98 100
100 64.8 52.8 79.2





#52
Toluene
Concen: 2.399 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

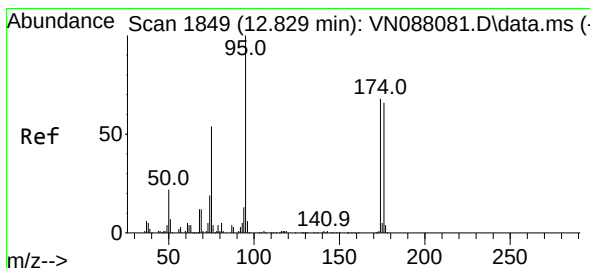
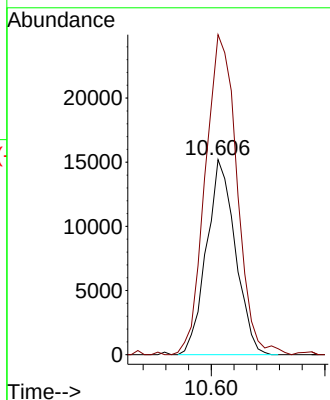
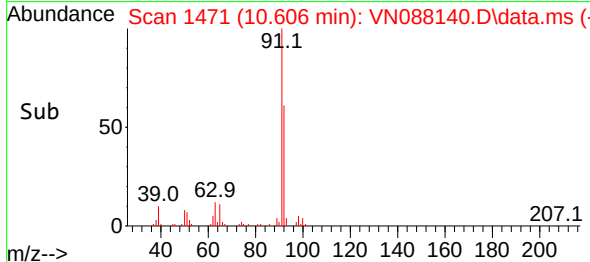
Instrument :
MSVOA_N
ClientSampleId :
MW-08DL



Tgt Ion: 92 Resp: 26800
Ion Ratio Lower Upper
92 100
91 180.0 140.4 210.6

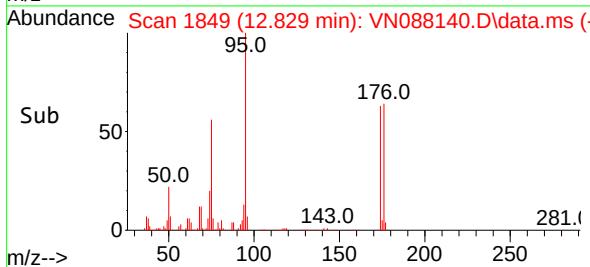
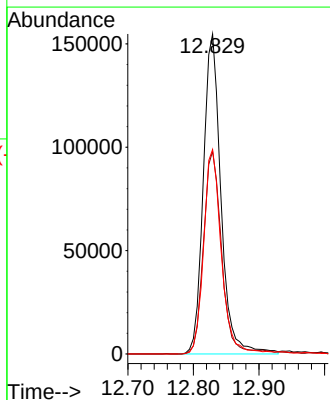
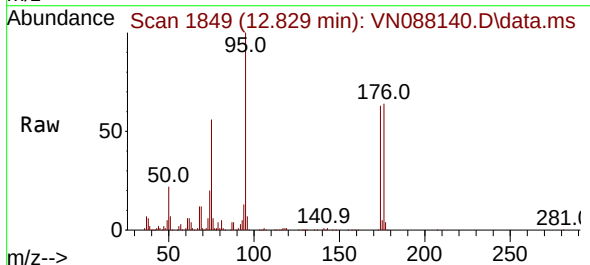
Manual Integrations
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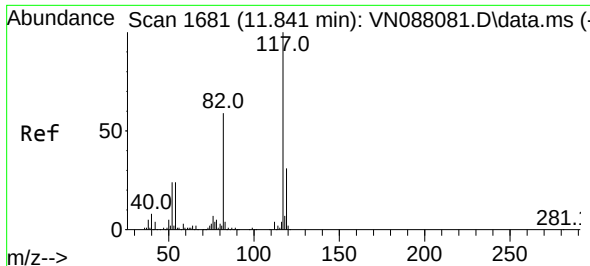
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#62
4-Bromofluorobenzene
Concen: 52.326 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

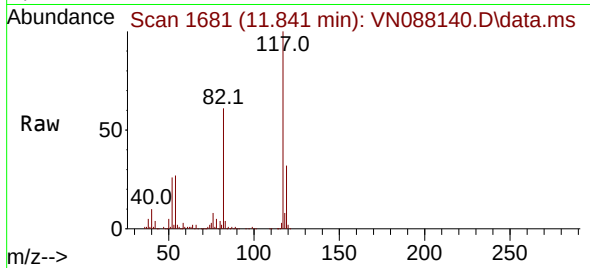
Tgt Ion: 95 Resp: 290199
Ion Ratio Lower Upper
95 100
174 65.6 0.0 138.4
176 64.1 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

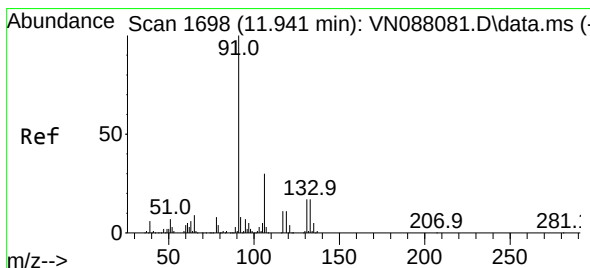
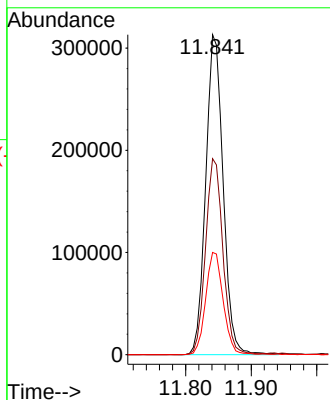
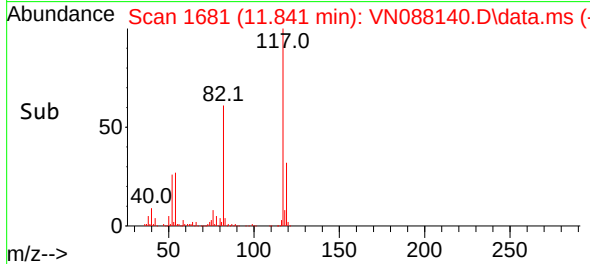
Instrument :
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MW-08DL



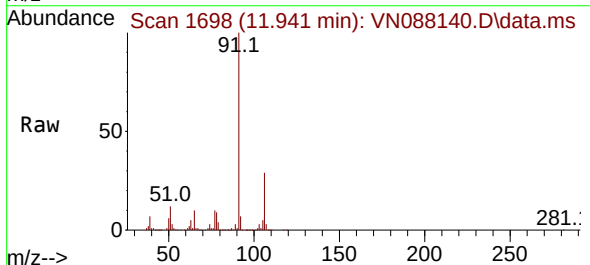
Tgt Ion: 117 Resp: 578519
Ion Ratio Lower Upper
117 100
82 61.3 47.4 71.2
119 32.0 24.3 36.5

Manual Integrations
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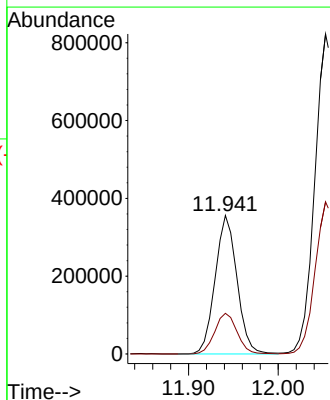
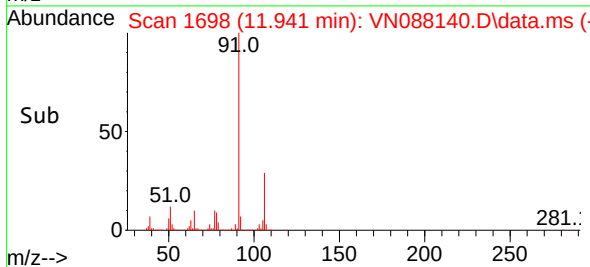
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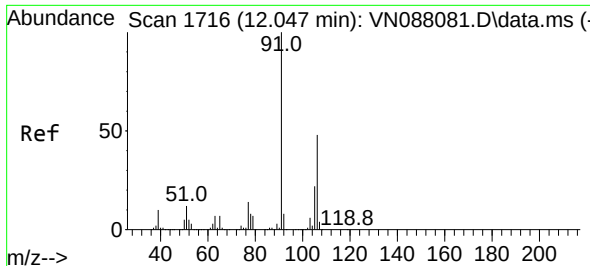


#67
Ethyl Benzene
Concen: 26.101 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22



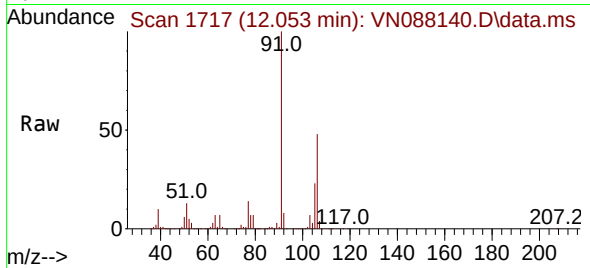
Tgt Ion: 91 Resp: 601841
Ion Ratio Lower Upper
91 100
106 29.4 24.1 36.1





#68
m/p-Xylenes
Concen: 80.076 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

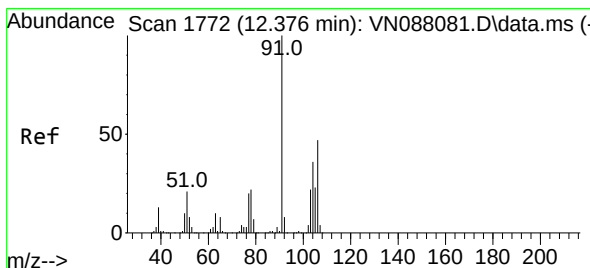
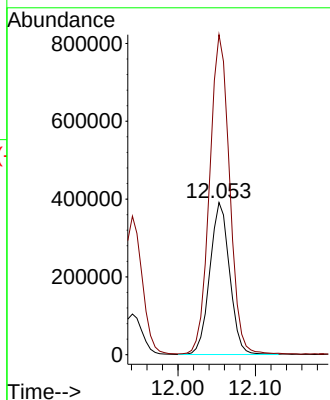
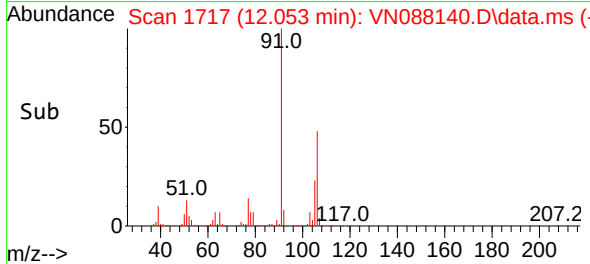
Instrument :
MSVOA_N
ClientSampleId :
MW-08DL



Tgt Ion:106 Resp: 691823
Ion Ratio Lower Upper
106 100
91 213.7 169.3 253.9

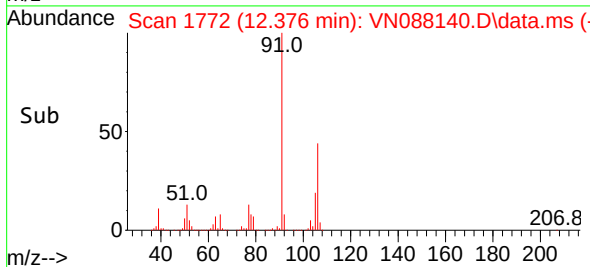
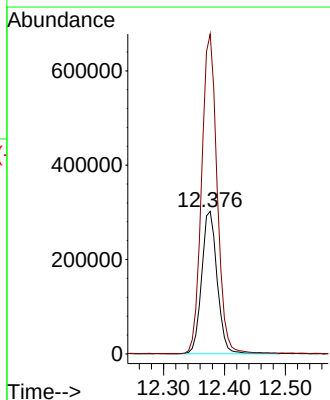
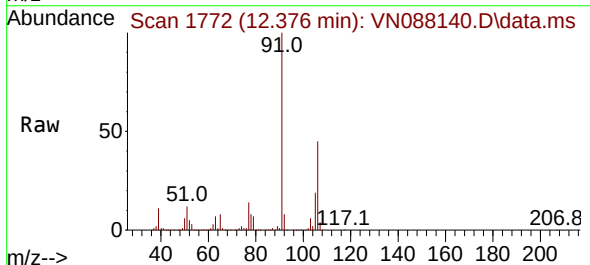
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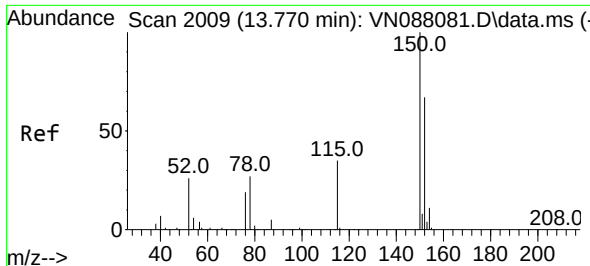
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#69
o-Xylene
Concen: 65.177 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

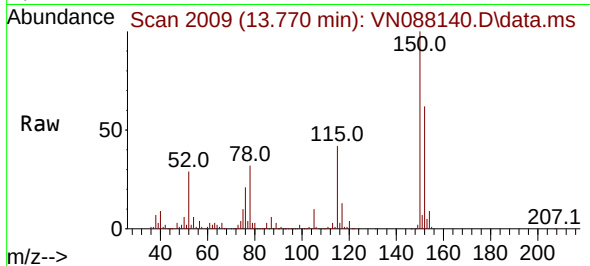
Tgt Ion:106 Resp: 533803
Ion Ratio Lower Upper
106 100
91 224.7 111.4 334.2





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

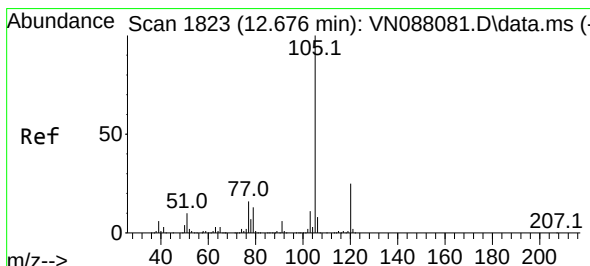
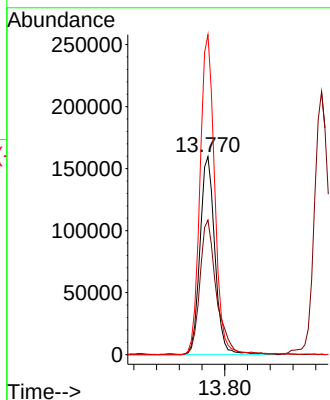
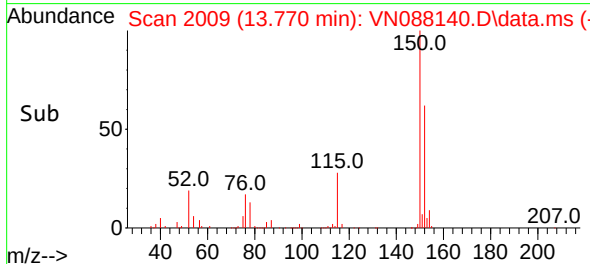
Instrument :
MSVOA_N
ClientSampleId :
MW-08DL



Tgt Ion:152 Resp: 291309
Ion Ratio Lower Upper
152 100
115 74.1 32.3 96.8
150 159.2 0.0 351.0

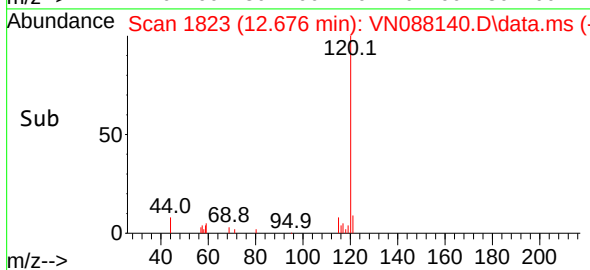
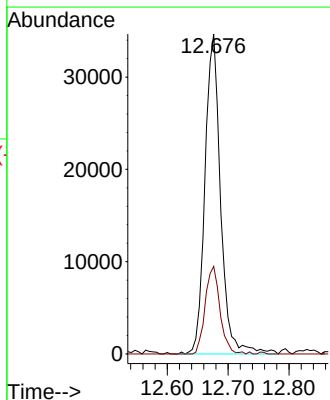
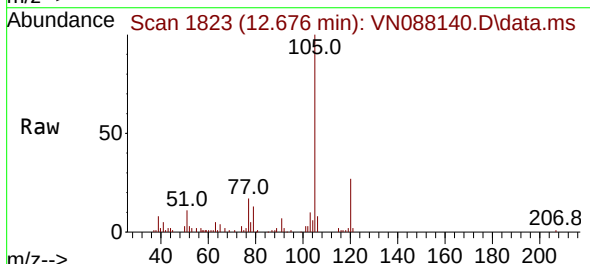
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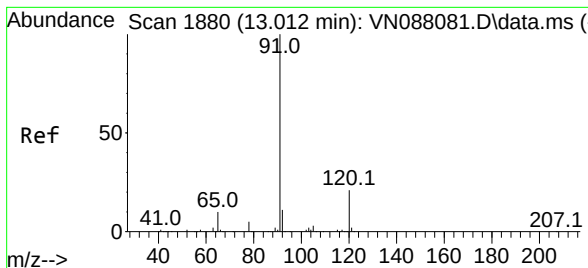
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#73
Isopropylbenzene
Concen: 2.759 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

Tgt Ion:105 Resp: 61991
Ion Ratio Lower Upper
105 100
120 25.9 12.8 38.3





#78

n-propylbenzene

Concen: 4.318 ug/l

RT: 13.017 min Scan# 11840

Delta R.T. 0.005 min

Lab File: VN088140.D

Acq: 28 Oct 2025 15:22

Instrument :

MSVOA_N

ClientSampleId :

MW-08DL

Tgt Ion: 91 Resp: 11840

Ion Ratio Lower Upper

91 100

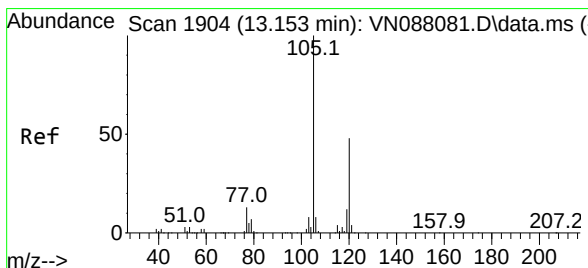
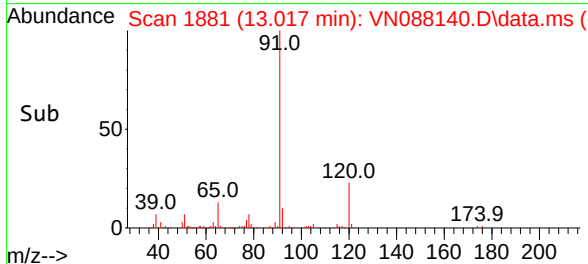
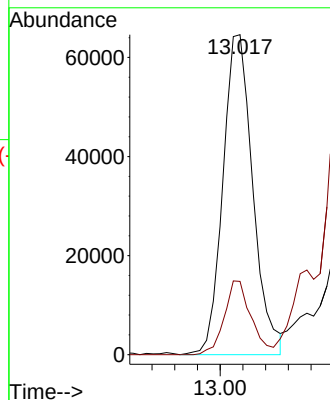
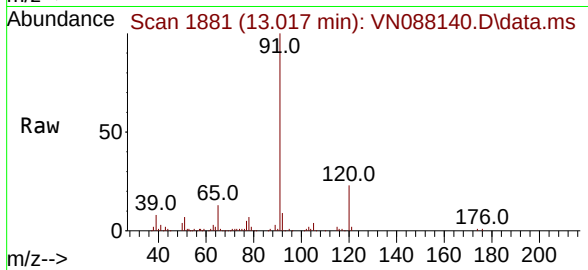
120 20.8 10.7 32.1

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Reviewed By :John Carlone 10/29/2025

Supervised By :Semsettin Yesilyurt 10/29/2025



#80

1,3,5-Trimethylbenzene

Concen: 3.533 ug/l

RT: 13.153 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VN088140.D

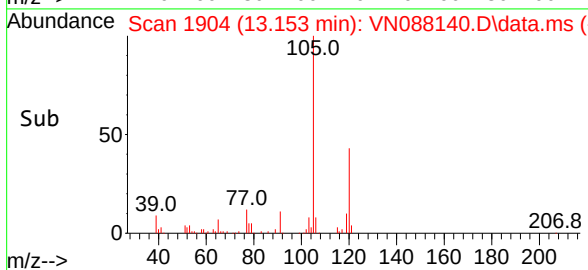
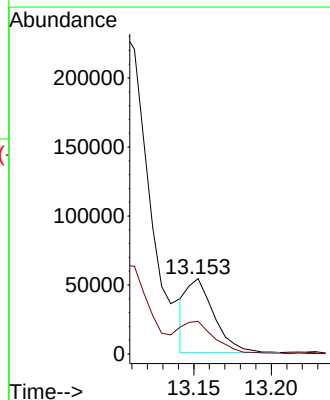
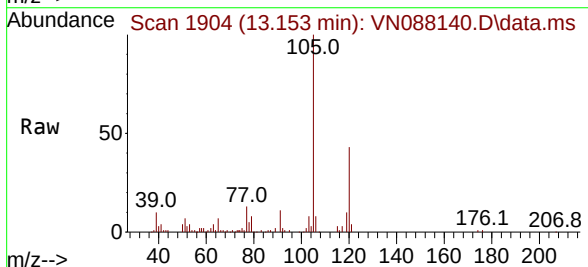
Acq: 28 Oct 2025 15:22

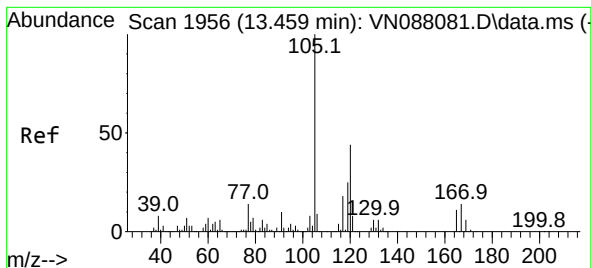
Tgt Ion:105 Resp: 65932

Ion Ratio Lower Upper

105 100

120 56.3 23.2 69.6





#84

1,2,4-Trimethylbenzene

Concen: 93.536 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VN088140.D

Acq: 28 Oct 2025 15:22

Instrument :

MSVOA_N

ClientSampleId :

MW-08DL

Tgt Ion:105 Resp: 174625

Ion Ratio Lower Upper

105 100

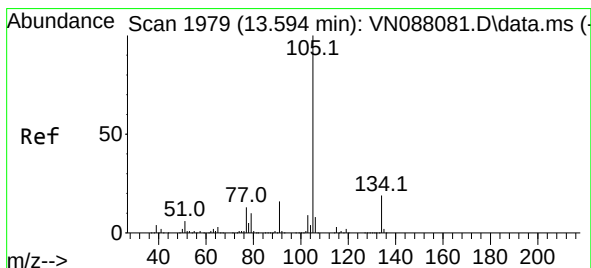
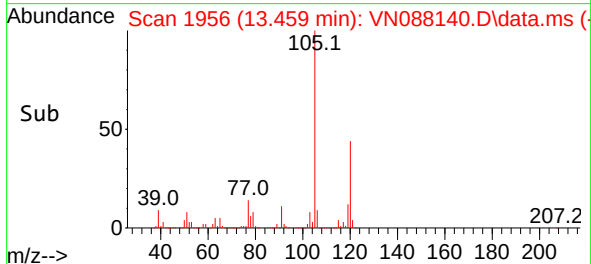
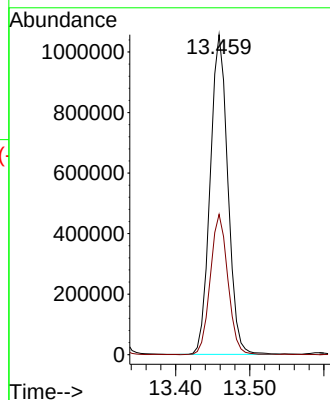
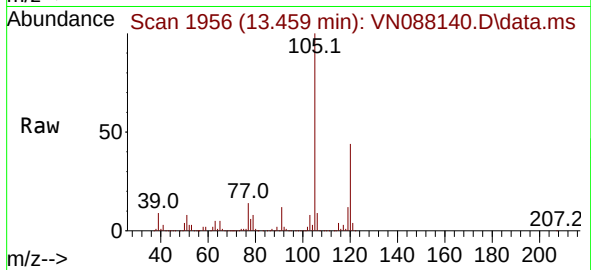
120 43.7 22.0 66.0

Manual Integrations

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Reviewed By :John Carlone 10/29/2025

Supervised By :Semsettin Yesilyurt 10/29/2025



#85

sec-Butylbenzene

Concen: 0.473 ug/l m

RT: 13.588 min Scan# 1978

Delta R.T. -0.006 min

Lab File: VN088140.D

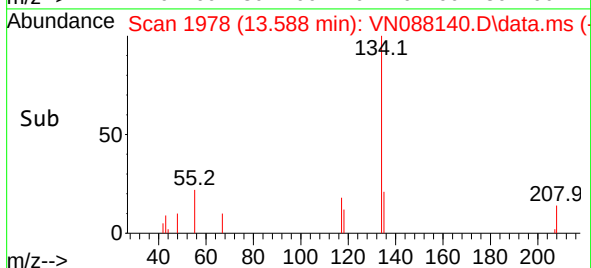
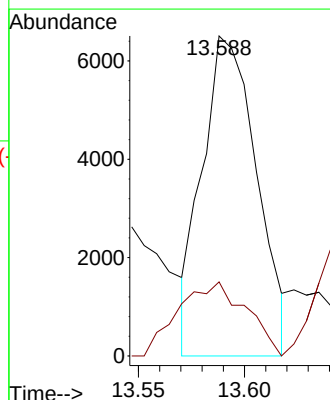
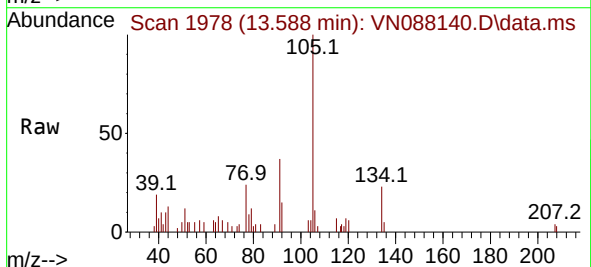
Acq: 28 Oct 2025 15:22

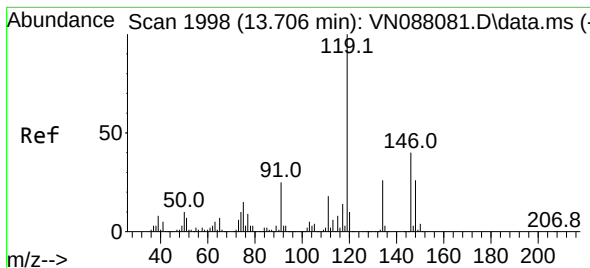
Tgt Ion:105 Resp: 11594

Ion Ratio Lower Upper

105 100

134 0.0 9.6 28.6#





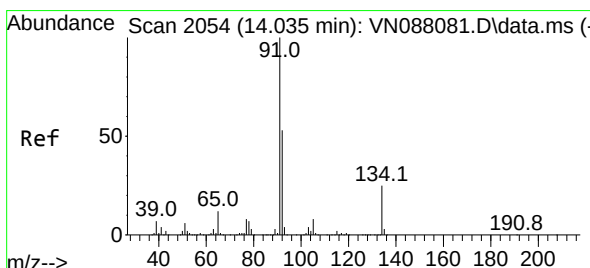
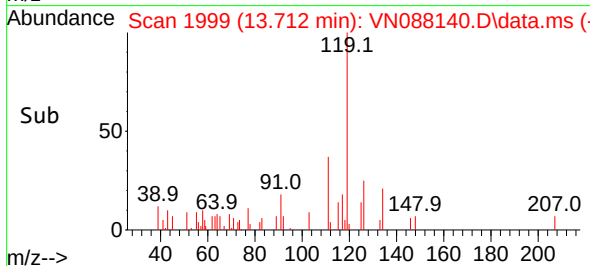
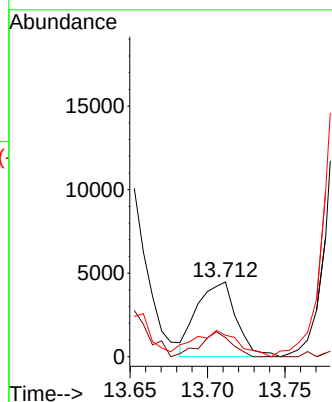
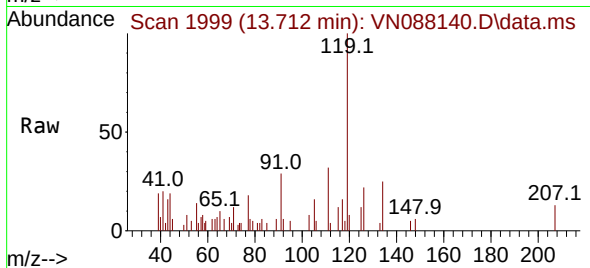
#86
p-Isopropyltoluene
Concen: 0.401 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.006 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

Instrument :
MSVOA_N
ClientSampleId :
MW-08DL

Tgt Ion:119 Resp: 7870
Ion Ratio Lower Upper
119 100
134 25.3 12.7 38.0
91 0.0 12.5 37.5

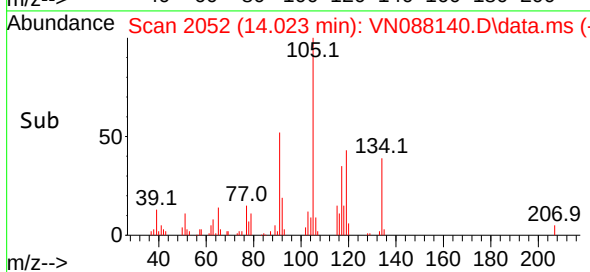
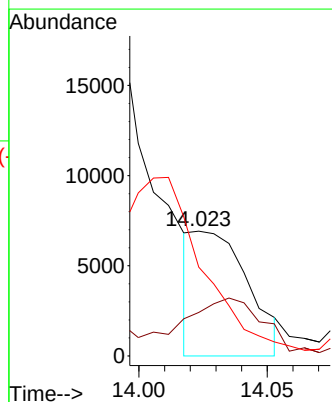
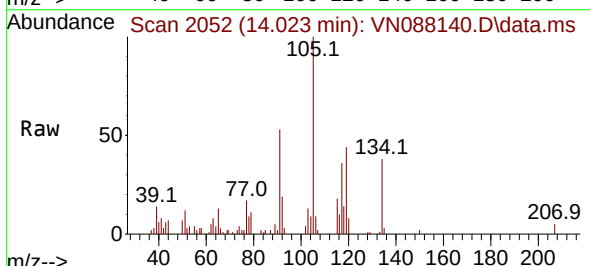
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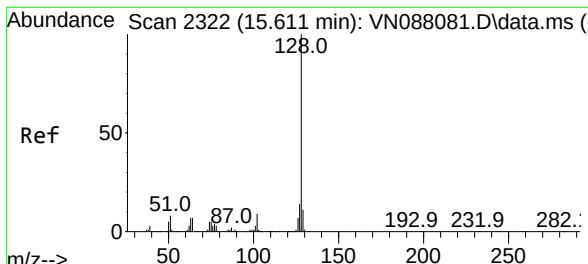
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#89
n-Butylbenzene
Concen: 0.532 ug/l m
RT: 14.023 min Scan# 2052
Delta R.T. -0.006 min
Lab File: VN088140.D
Acq: 28 Oct 2025 15:22

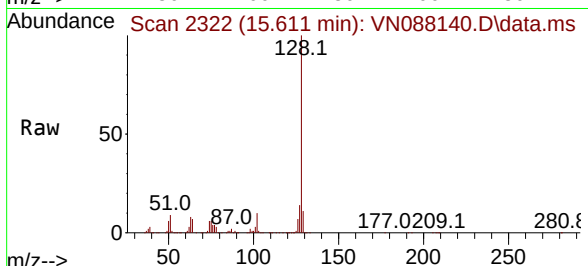
Tgt Ion: 91 Resp: 10351
Ion Ratio Lower Upper
91 100
92 201.2 25.9 77.8#
134 0.0 11.7 35.0#





#95
 Naphthalene
 Concen: 51.039 ug/l m
 RT: 15.611 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN088140.D
 Acq: 28 Oct 2025 15:22

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-08DL



Tgt Ion:128 Resp: 987240

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8
129	0.0	8.6	12.8

Manual Integrations
 APPROVED

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

