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Transition metal molecular glasses by design: Mexylaminotriazine-functionalized salicylaldehyde imine ligands

Supporting Information

Mahboubeh Jokar,[†] Michael Cherry,[†] Jennifer L. Scott[*,†] and Olivier Lebel[*,†]

[†] Department of Chemistry and Chemical Engineering, Royal Military College of Canada, Kingston, ON, K7K 7B4, Canada

[*]Corresponding author: jennifer.scott@rmc.ca; olivier.lebel@rmc.ca

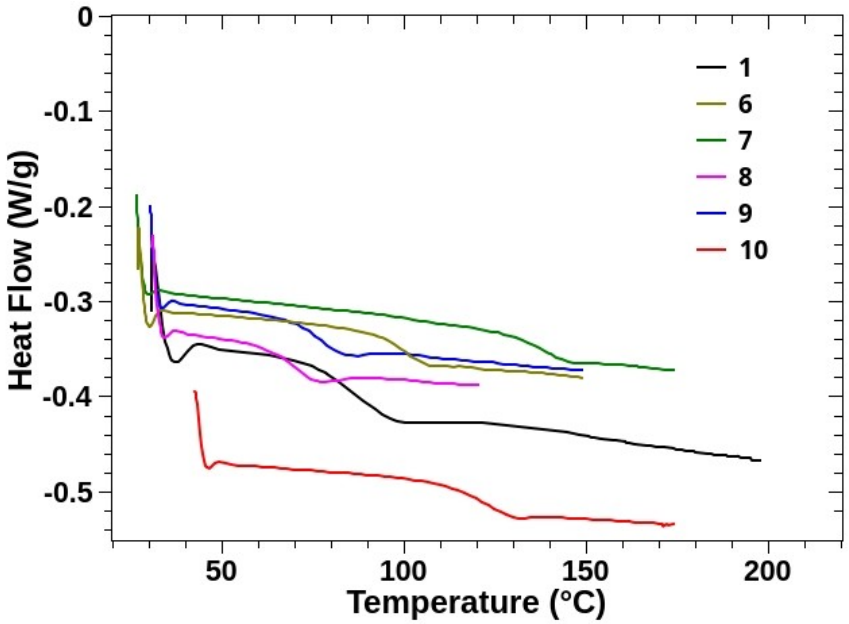


Figure S1. DSC traces for precursor **1** and ligands **6-10**, recorded at a heating rate of 5 °C/min.

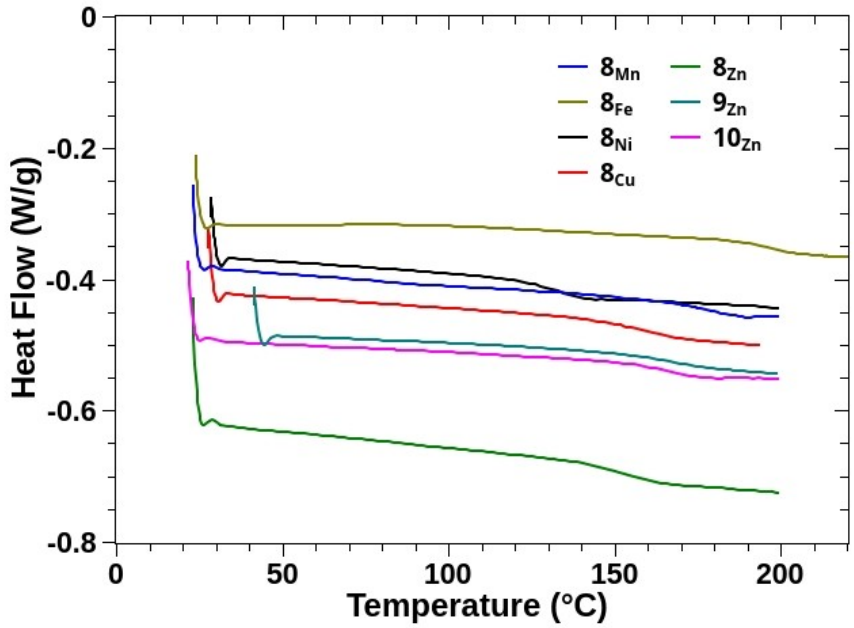


Figure S2. DSC traces for complexes $\mathbf{8_{Mn}}$, $\mathbf{8_{Fe}}$, $\mathbf{8_{Ni}}$, $\mathbf{8_{Cu}}$, $\mathbf{8_{Zn}}$, $\mathbf{9_{Zn}}$ and $\mathbf{10_{Zn}}$, recorded at a heating rate of 5 °C/min.

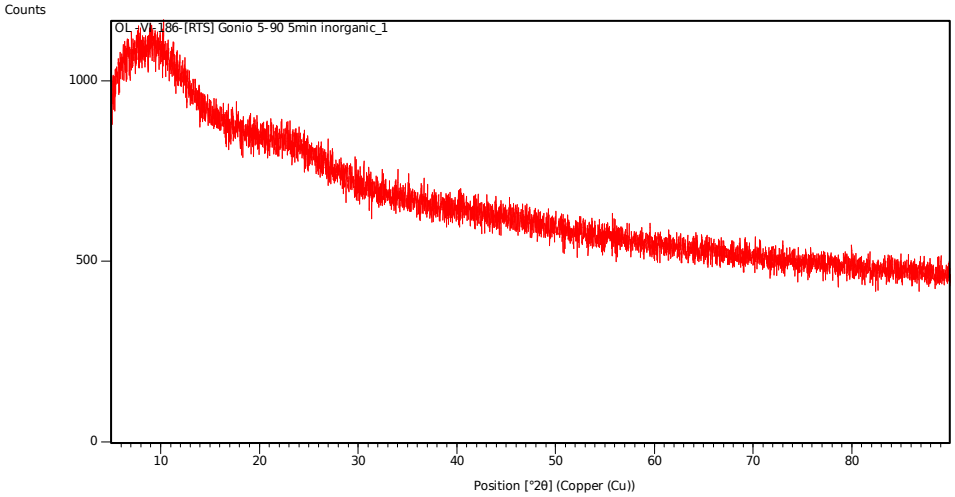


Figure S3. Powder X-ray diffraction pattern for complex $\mathbf{8_{Co}}$.

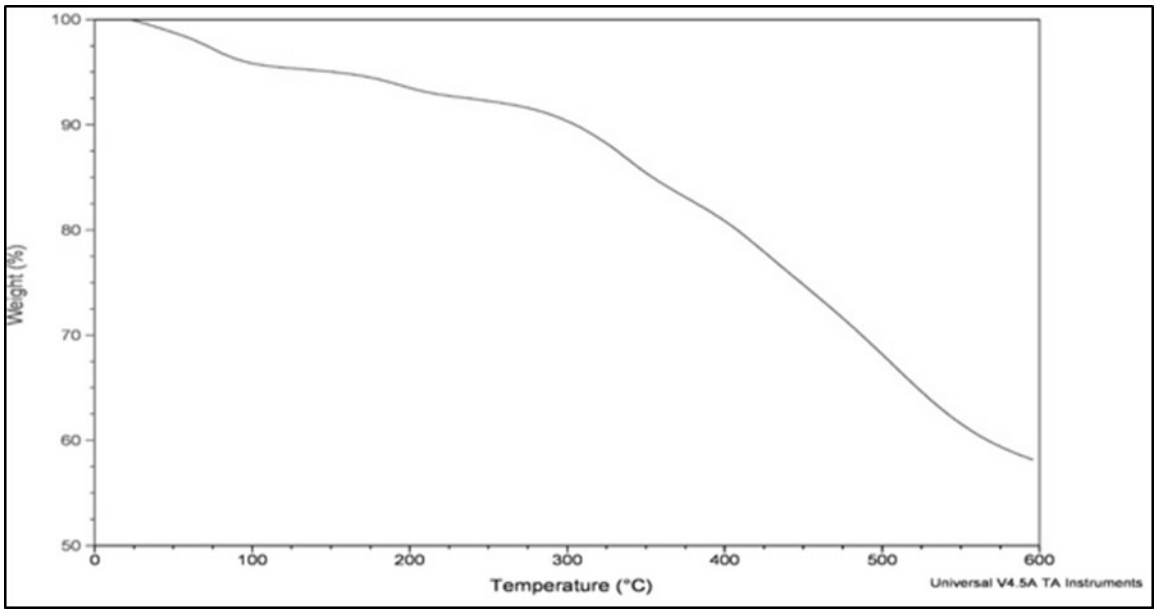


Figure S4. Thermal Gravimetric Analysis of complex $\mathbf{8_{Mn}}$.

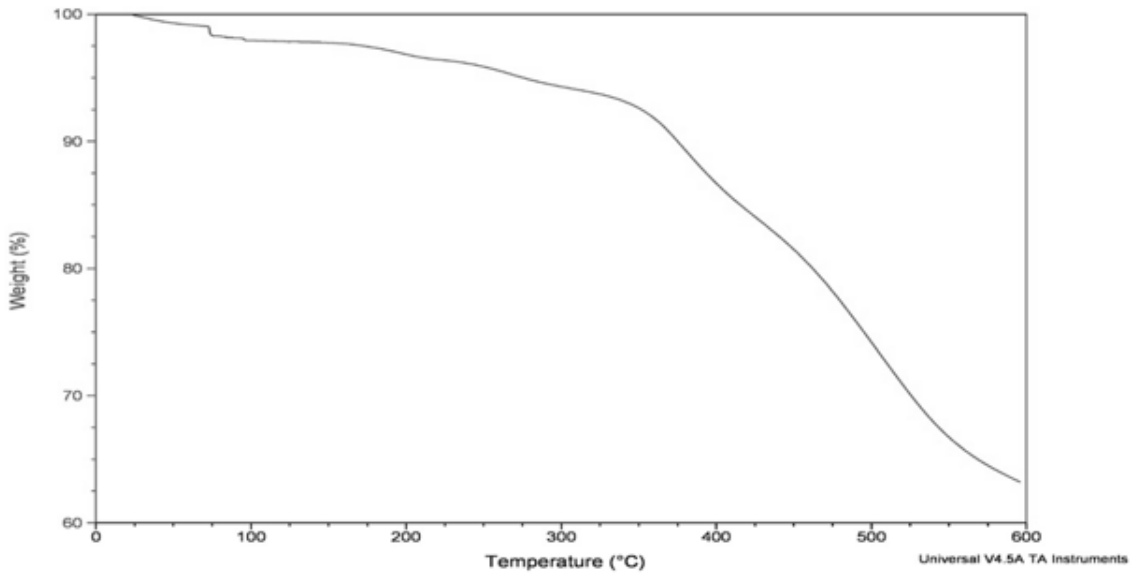


Figure S5. Thermal Gravimetric Analysis of complex $\mathbf{8_{Fe}}$.

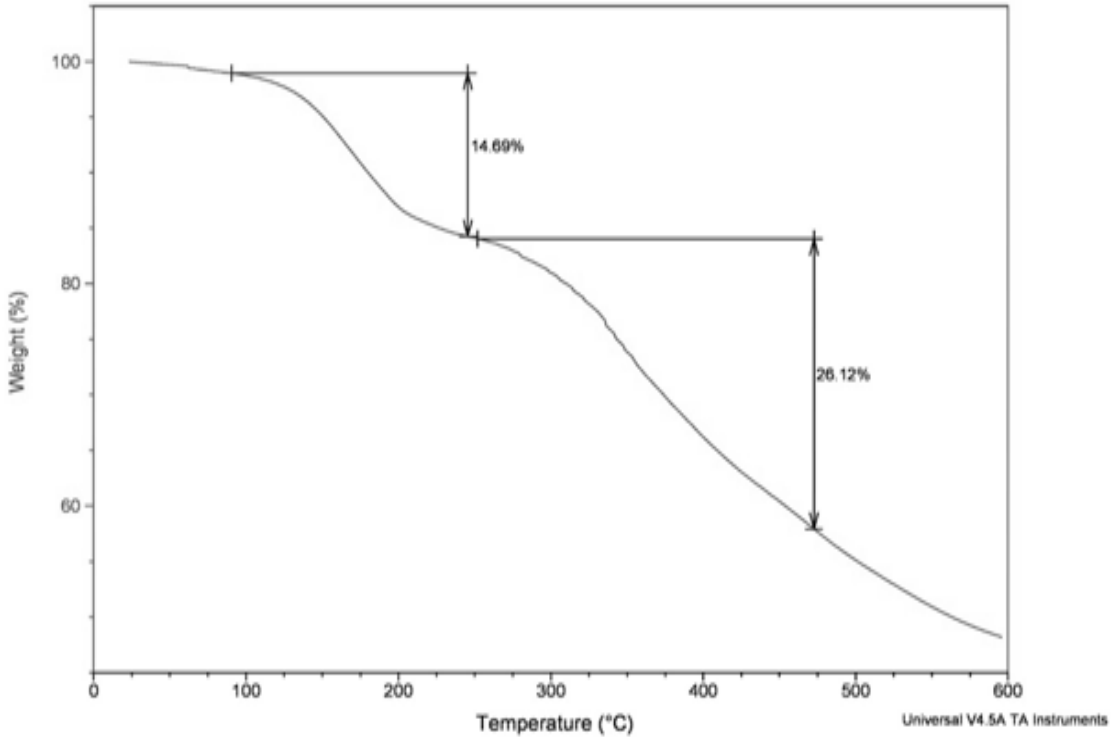


Figure S6. Thermal Gravimetric Analysis of complex $\mathbf{8_{Co}}$.

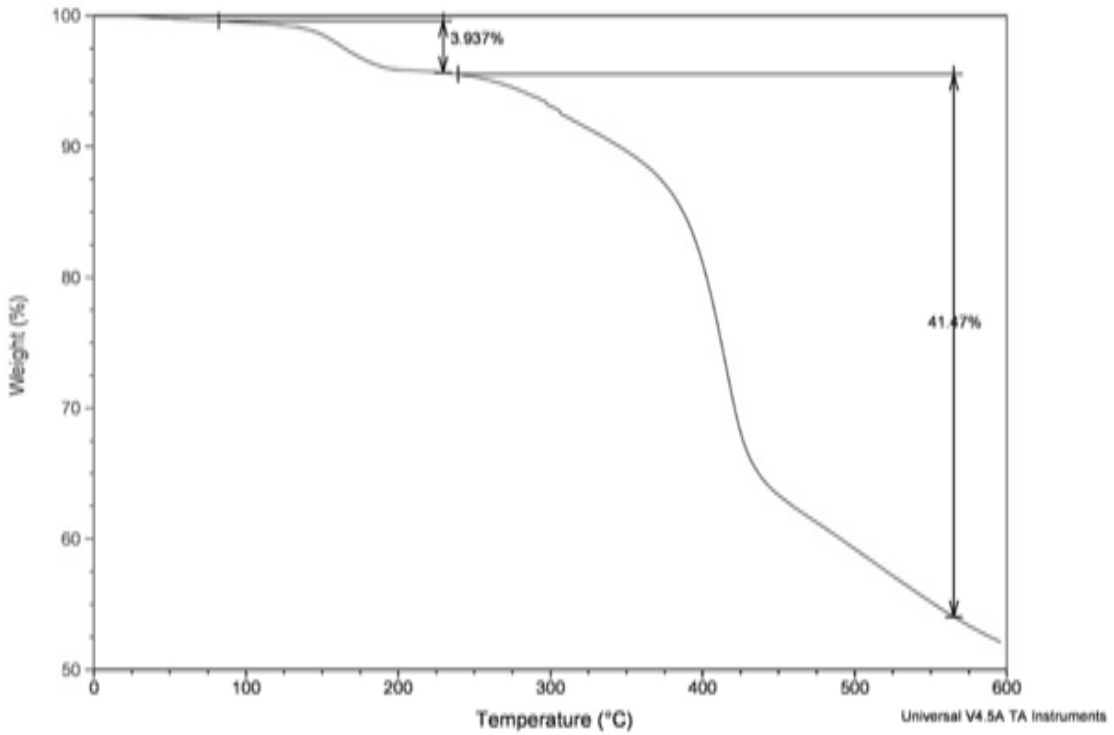


Figure S7. Thermal Gravimetric Analysis of complex $\mathbf{8_{Ni}}$.

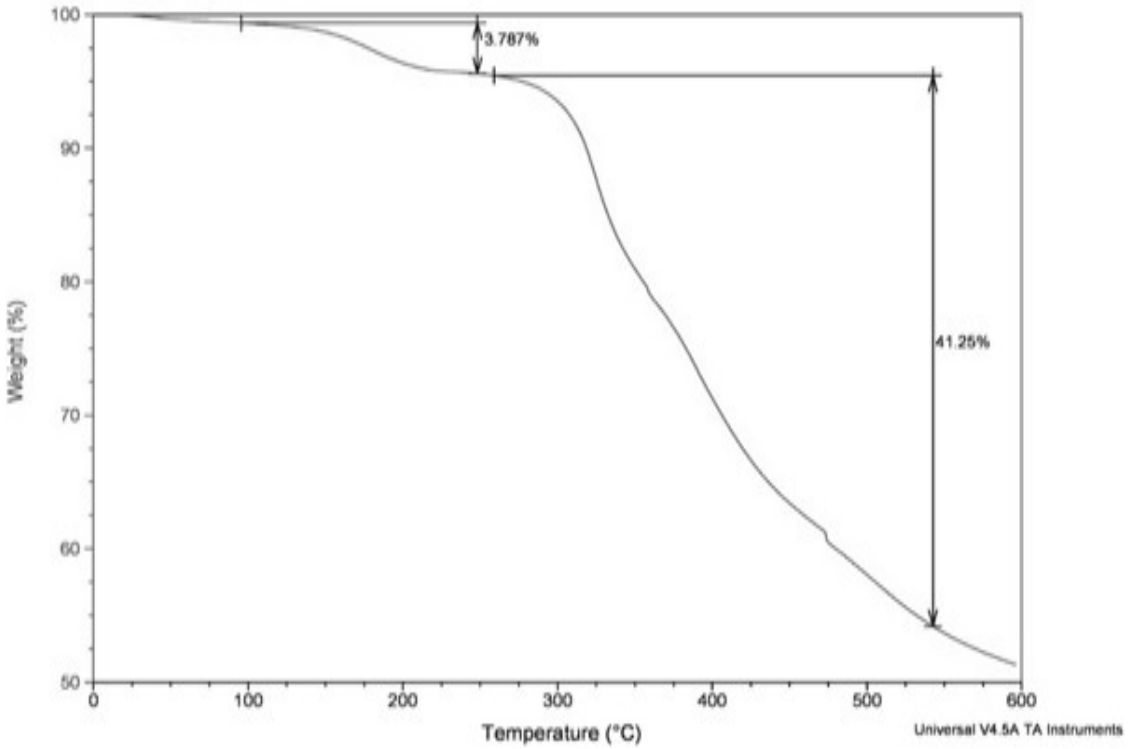


Figure S8. Thermal Gravimetric Analysis of complex $\mathbf{8_{Cu}}$.

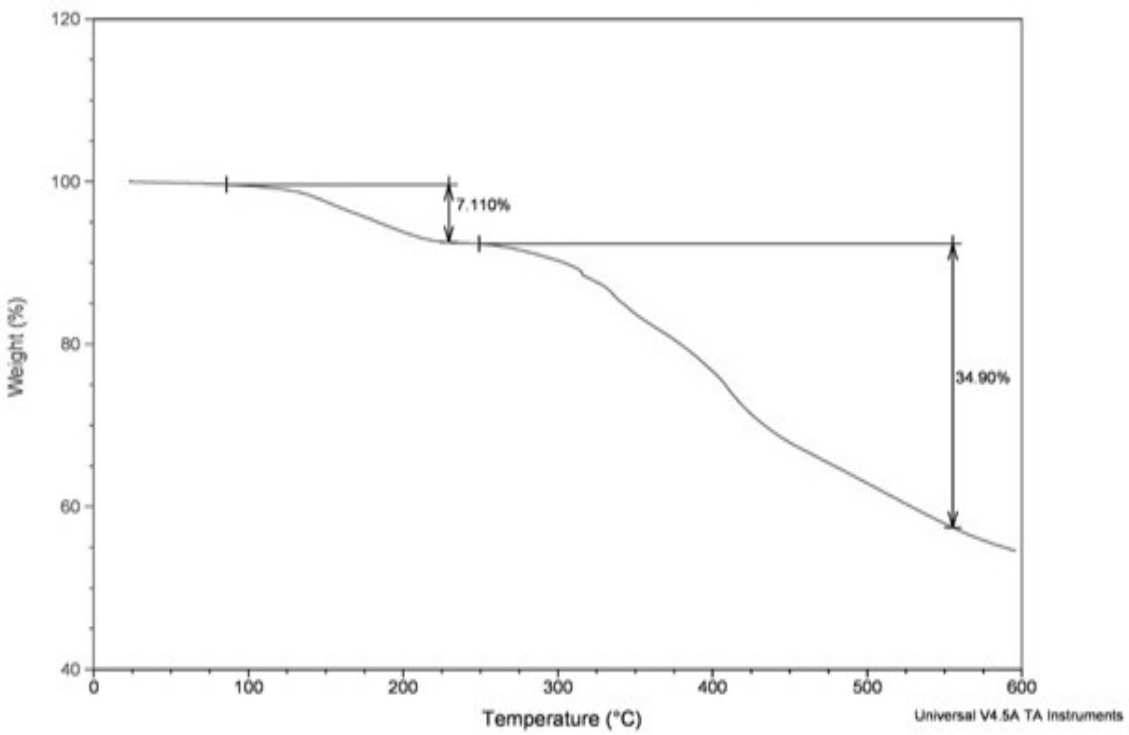


Figure S9. Thermal Gravimetric Analysis of complex $\mathbf{8_{Zn}}$.

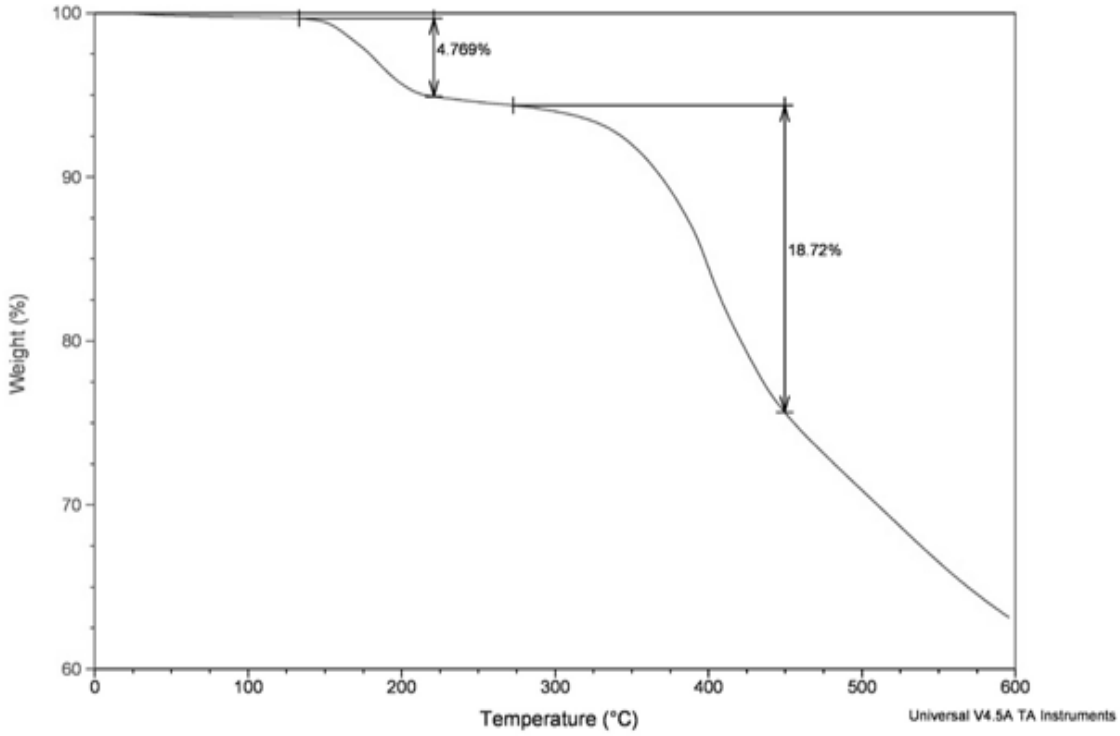


Figure S10. Thermal Gravimetric Analysis of complex $\mathbf{9_{Zn}}$.

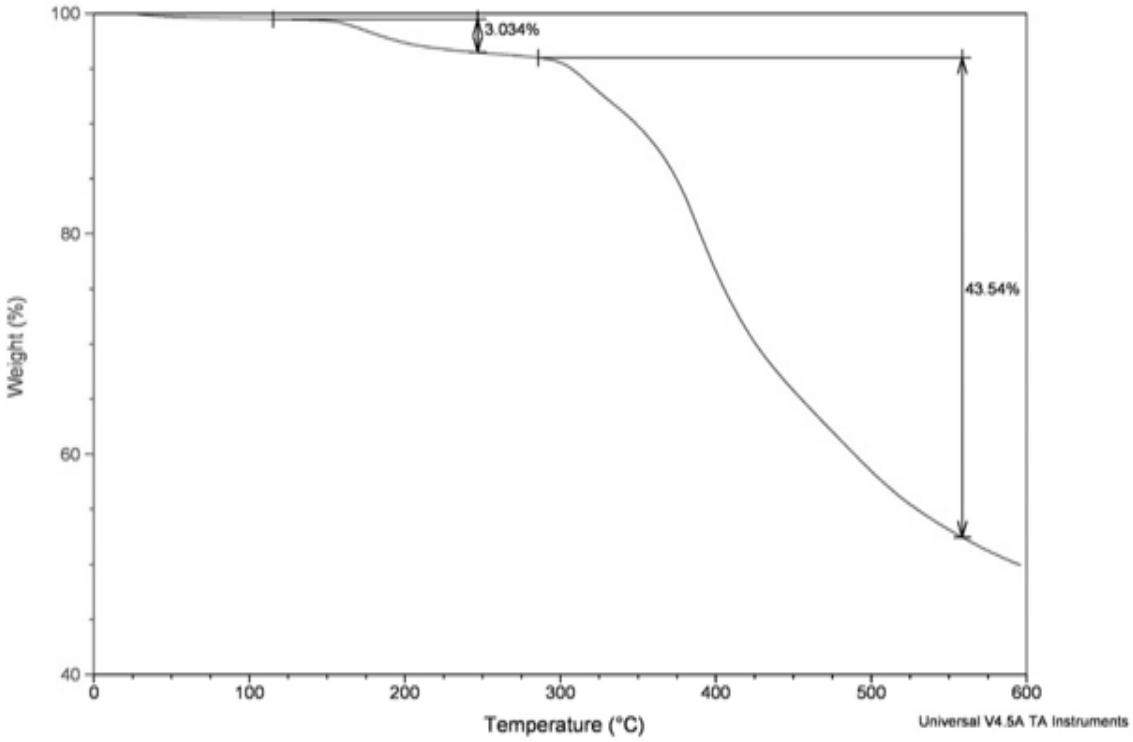
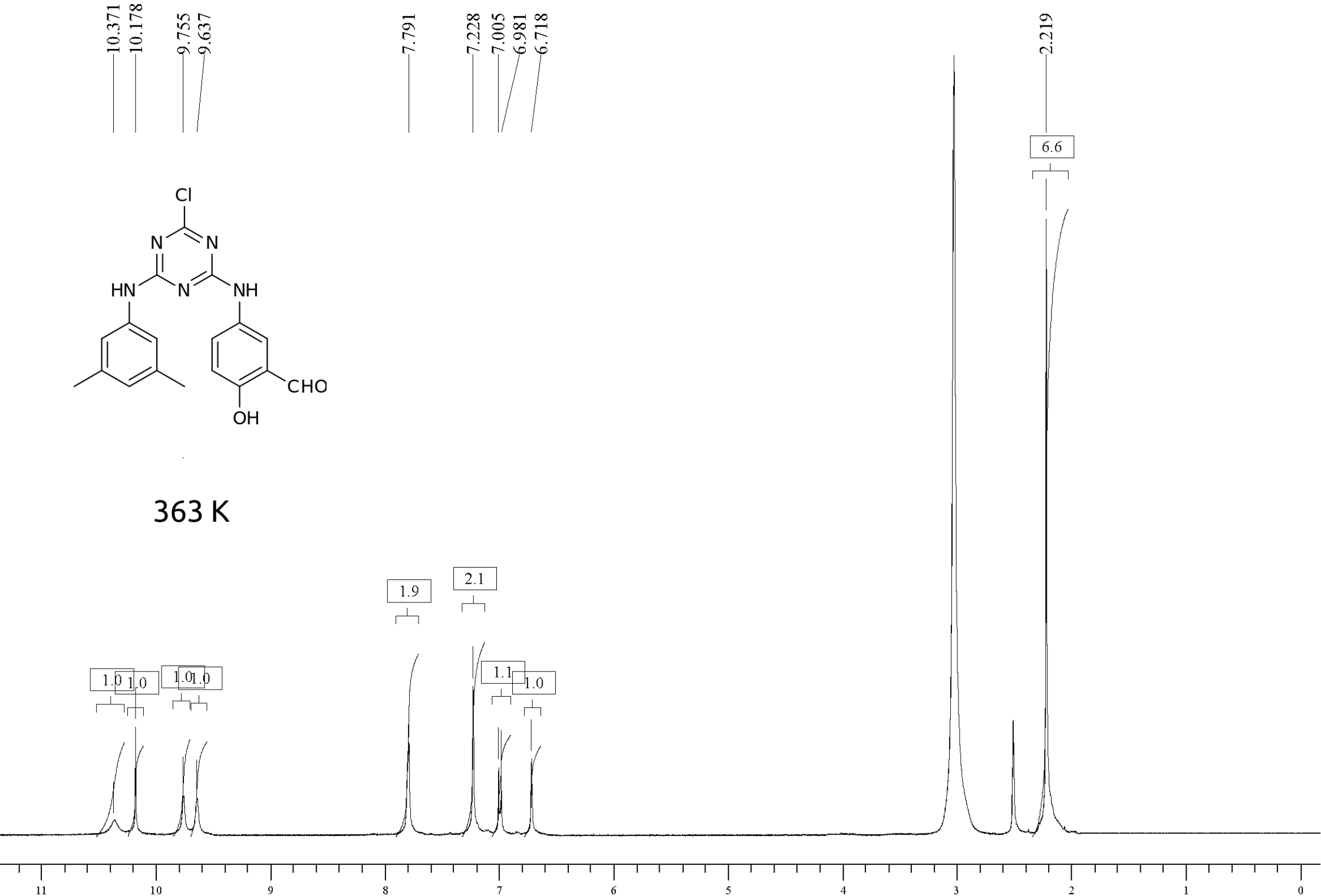


Figure S11. Thermal Gravimetric Analysis of complex **10**$_{Zn}$.

NMR Spectra of New Compounds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7.005
6.981
6.718
2.219
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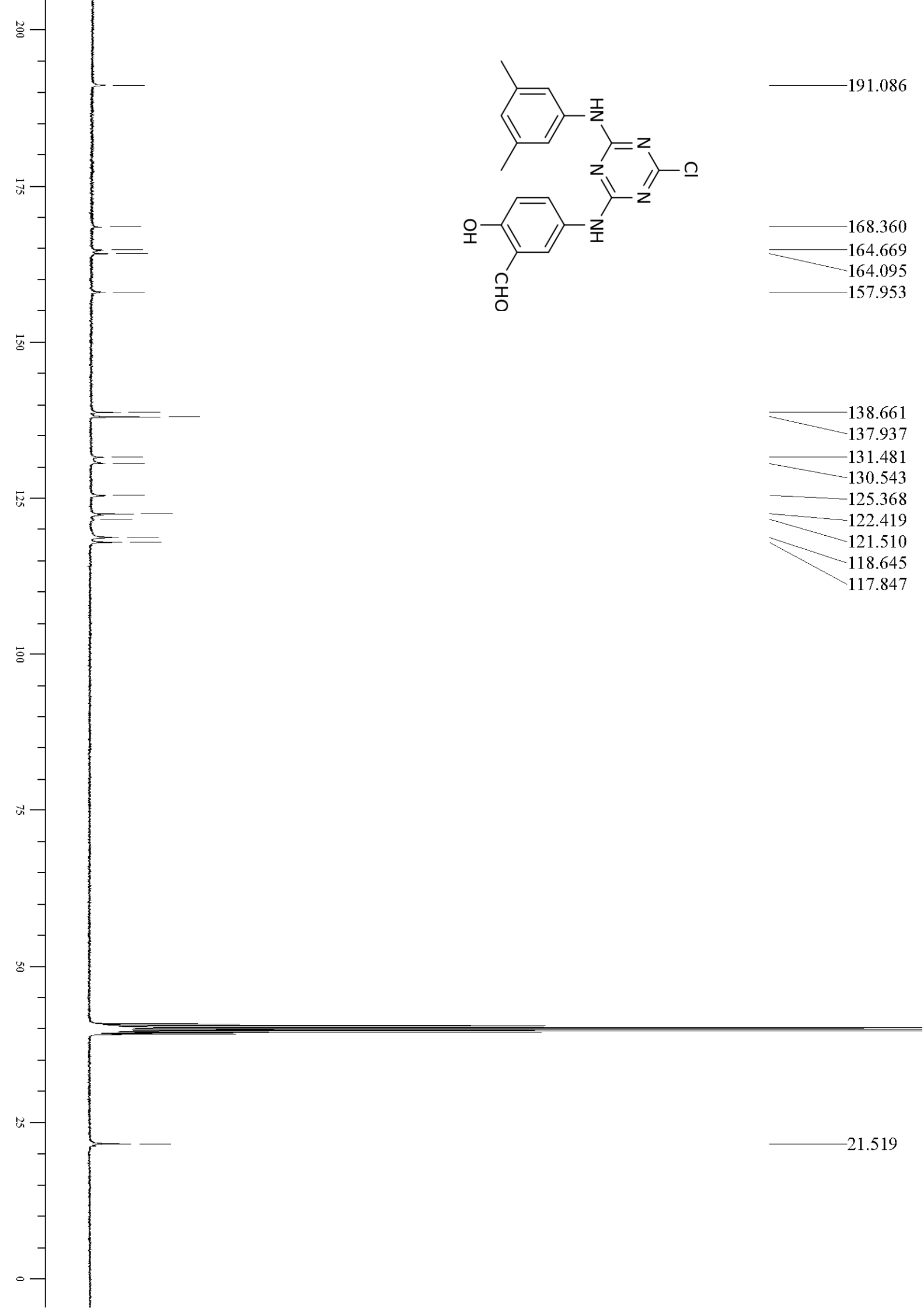
N
NH
CHO
OH
363 K
6.6
1.9
2.1
1.0
1.0
1.0
1.0
1.1
1.0
11
10
9
8
7
6
5
4
3
2
1
0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164.095
157.953
138.661
137.937
131.481
130.543
125.368
122.419
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118.645
117.847
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N
N
Cl
HN
OH
CHO
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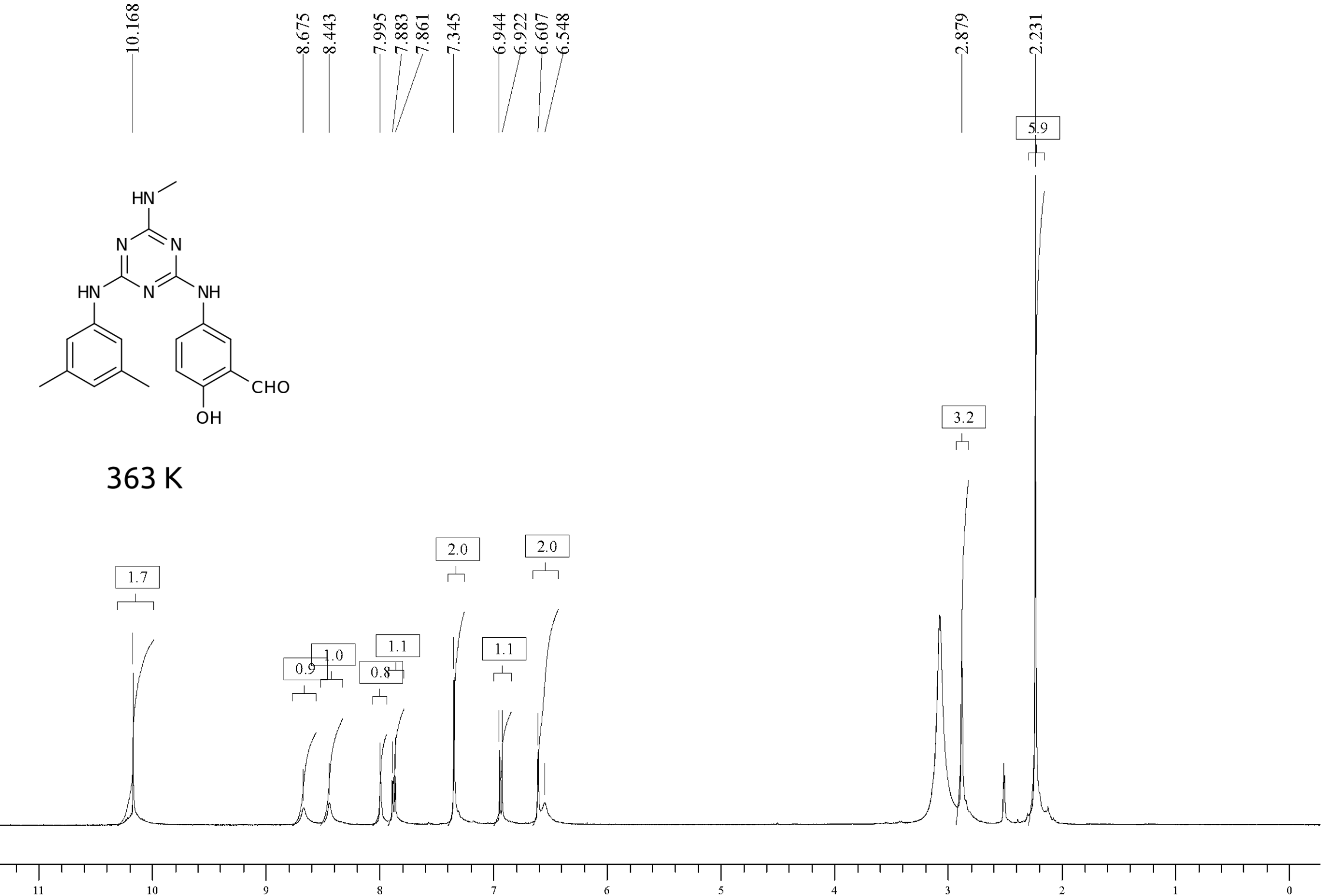
175
150
125
100
75
50
25
0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2.231
5.9
3.2
2.0
2.0
1.7
1.1
1.0
1.1
0.9
0.8
HN
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HN
N
NH
CHO
OH
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11
10
9
8
7
6
5
4
3
2
1
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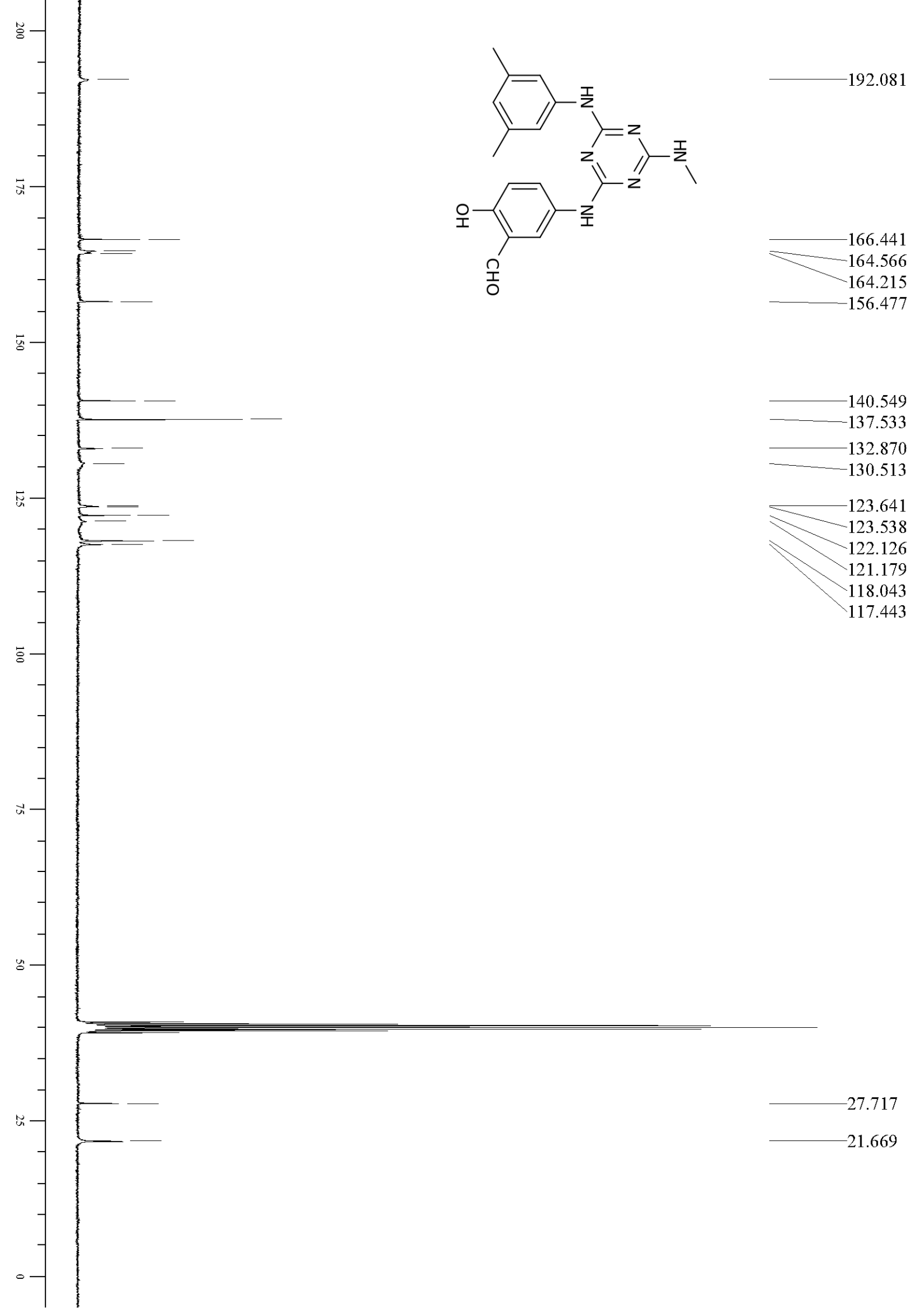
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140.549
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121.179
118.043
117.443
27.717
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N
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HN
HN
OH
CHO
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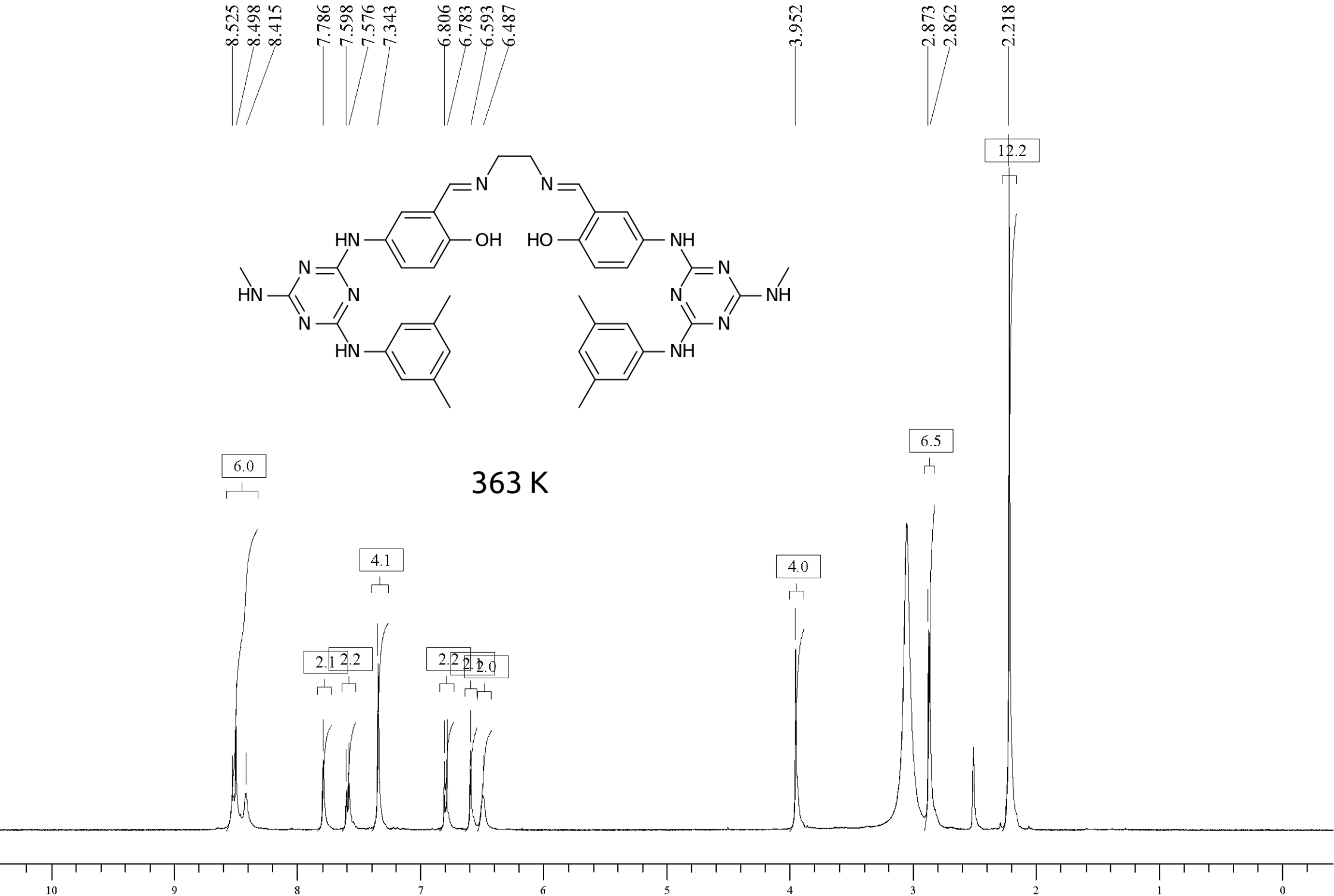
175
150
125
100
75
50
25
0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6.806
6.783
6.593
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2.873
2.862
2.218
12.2
6.5
6.0
363 K
4.1
4.0
2.1
2.2
2.2
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2.0
10
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6
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3
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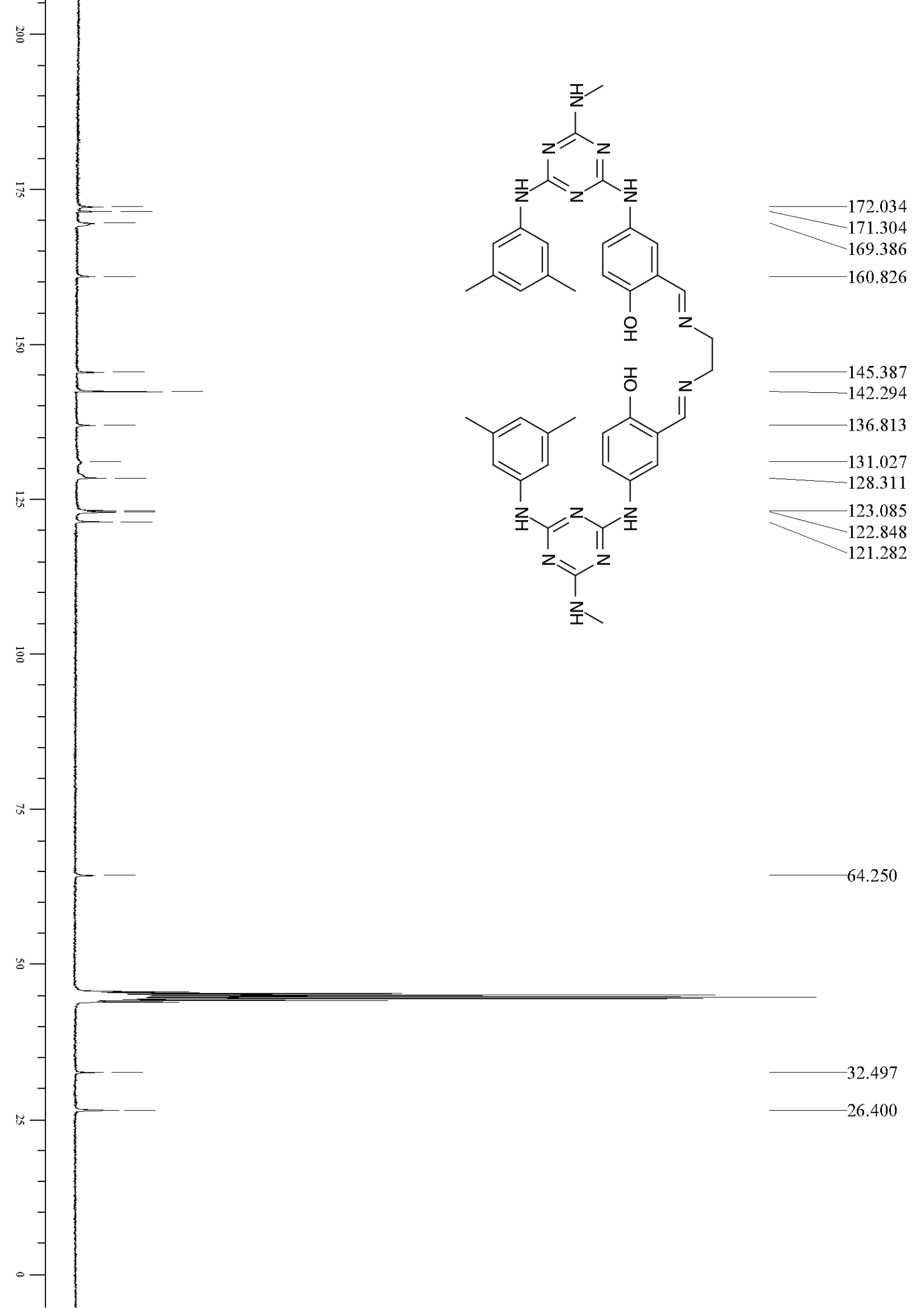
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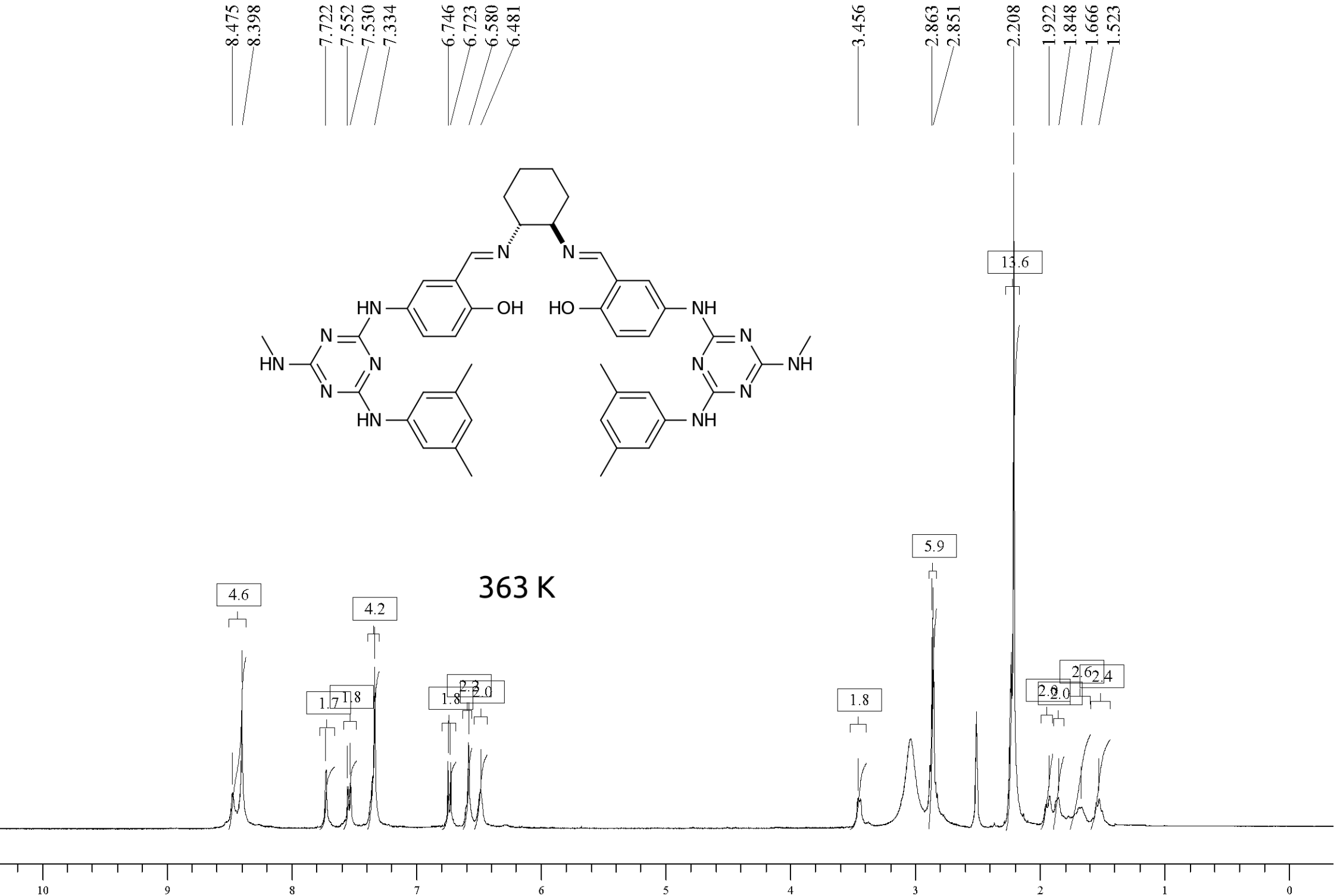
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2.208
1.922
1.848
1.666
1.523
363 K
4.6
4.2
1.7
1.8
1.8
2.3
2.0
1.8
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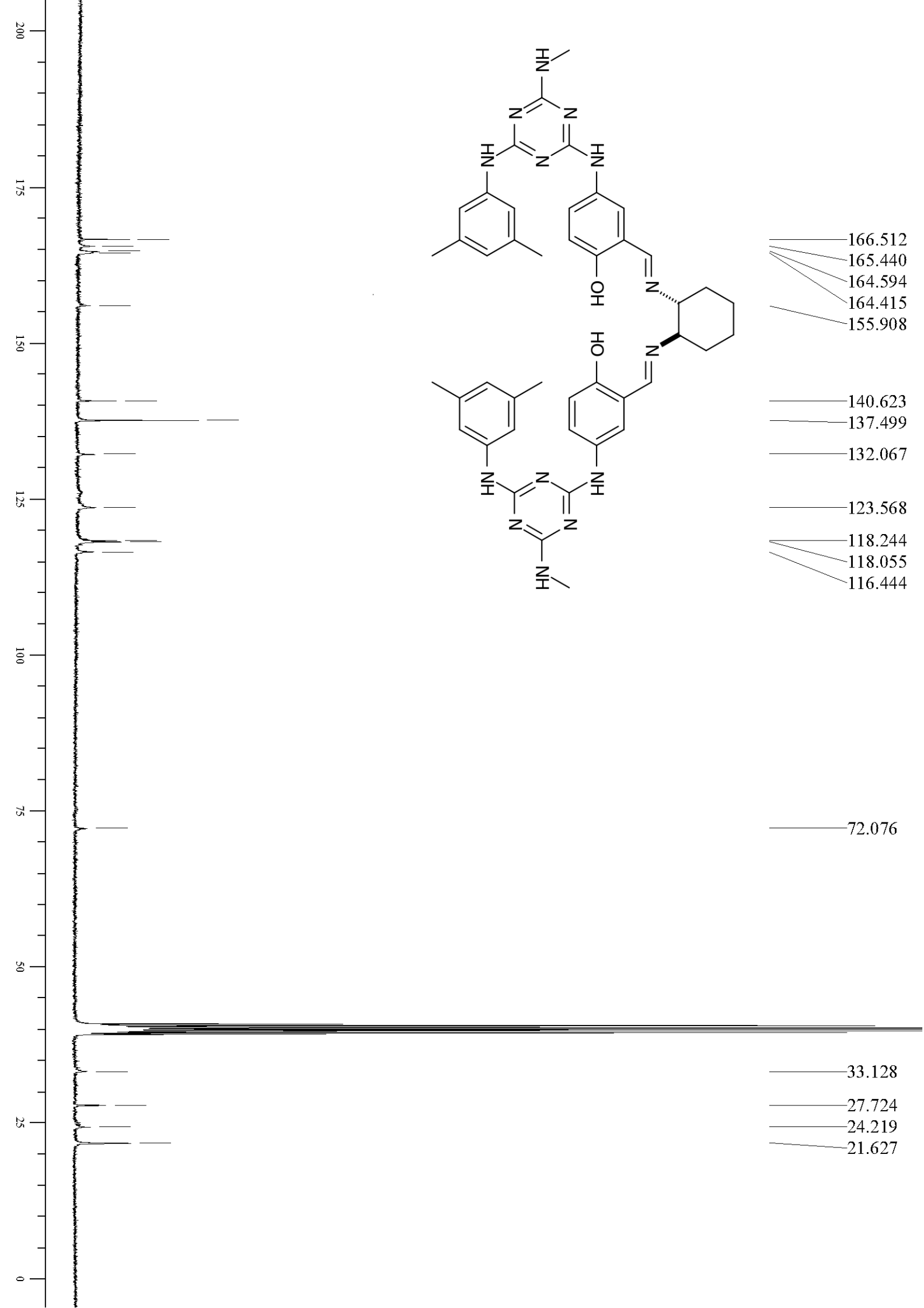
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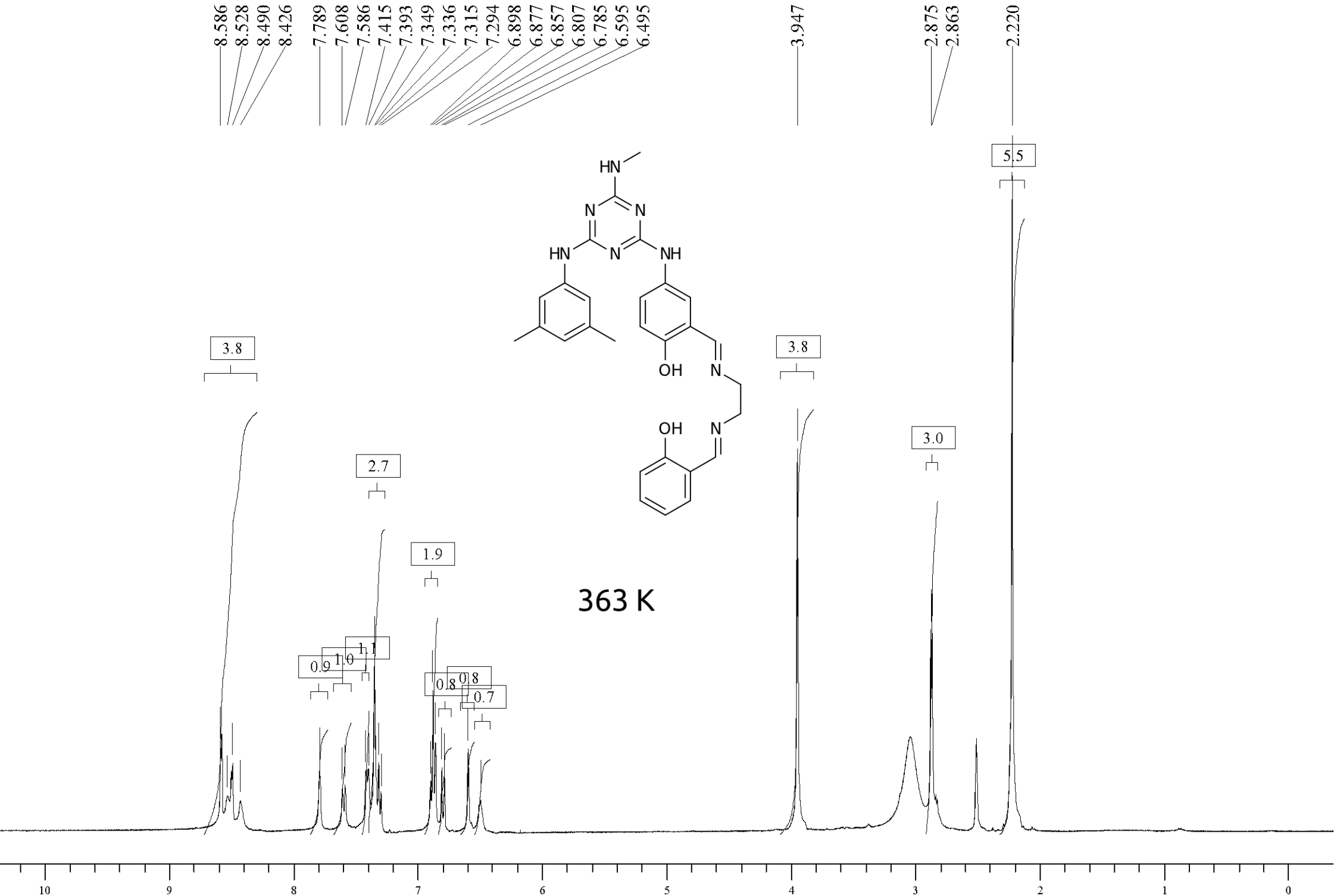
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6.898
6.877
6.857
6.807
6.785
6.595
6.495
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2.875
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2.220
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HN
N
NH
OH
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2.7
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1.0
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0.8
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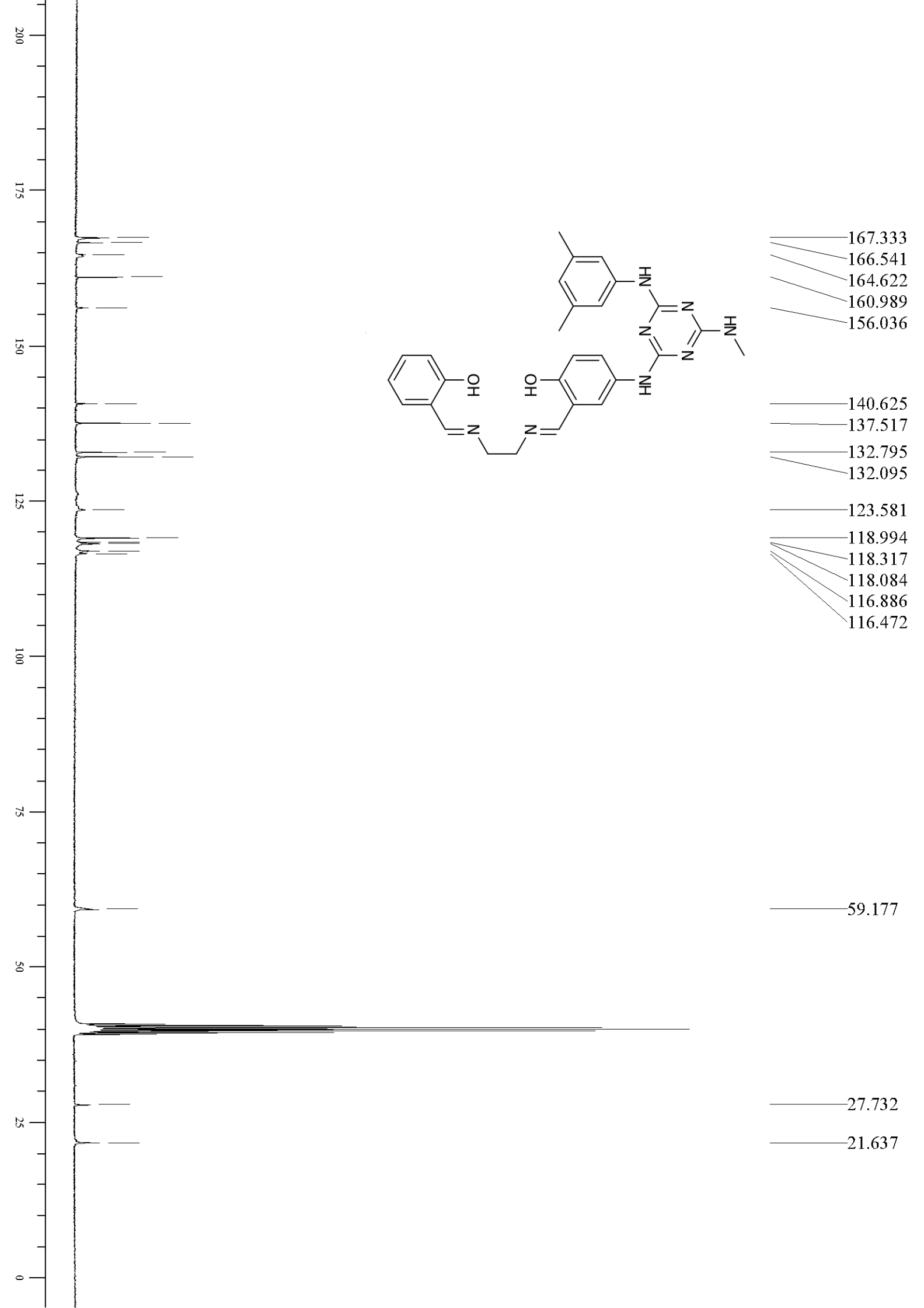
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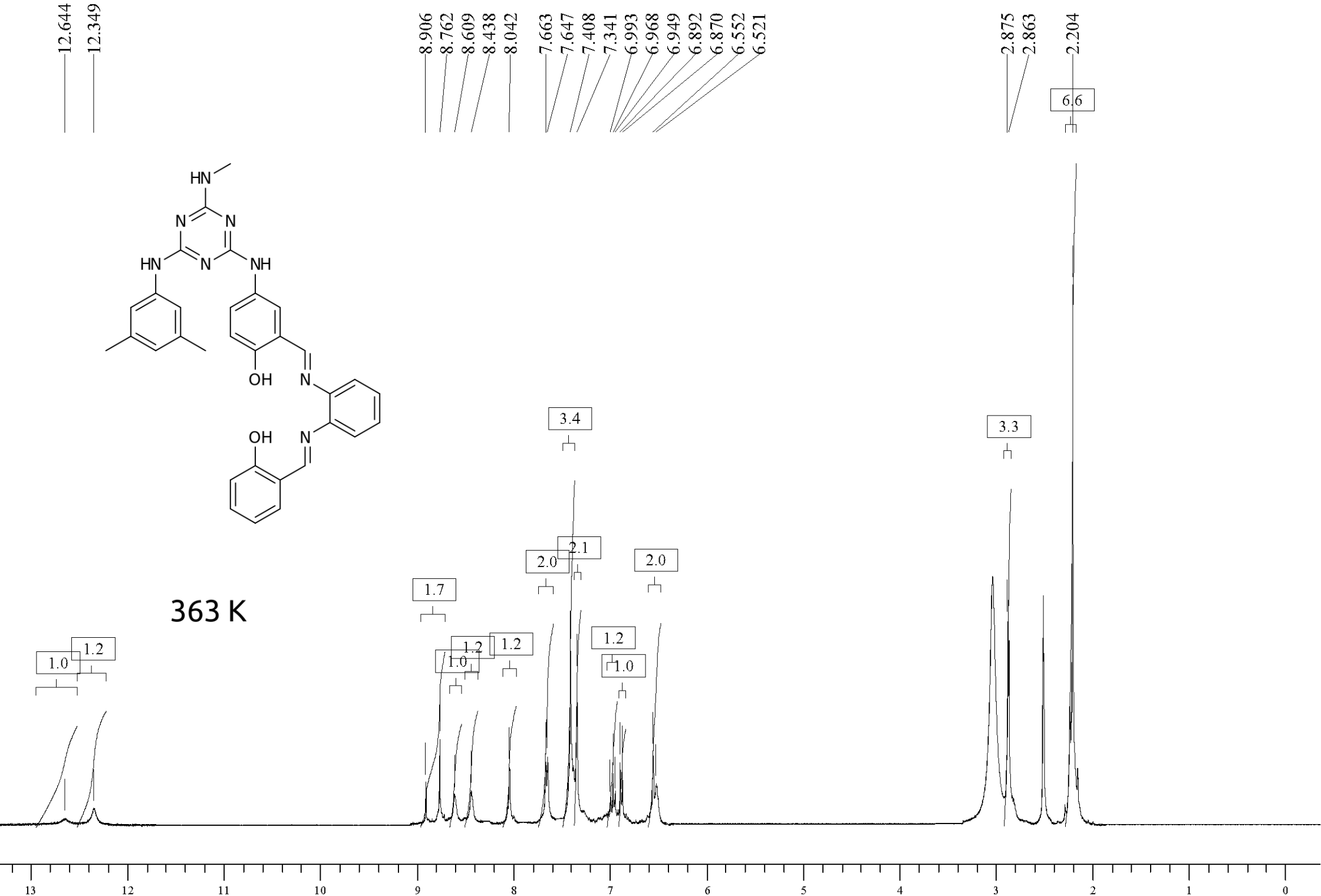
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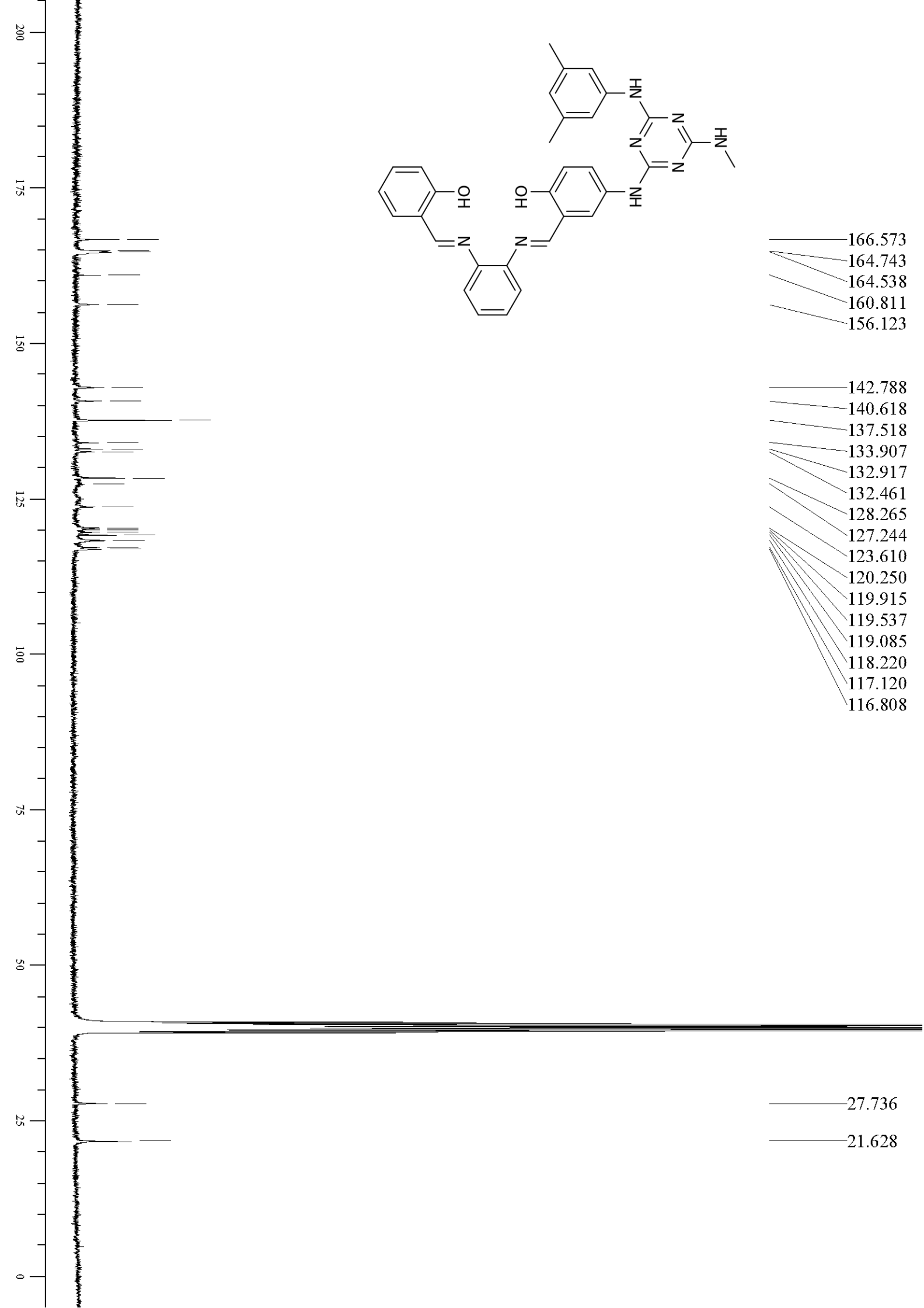
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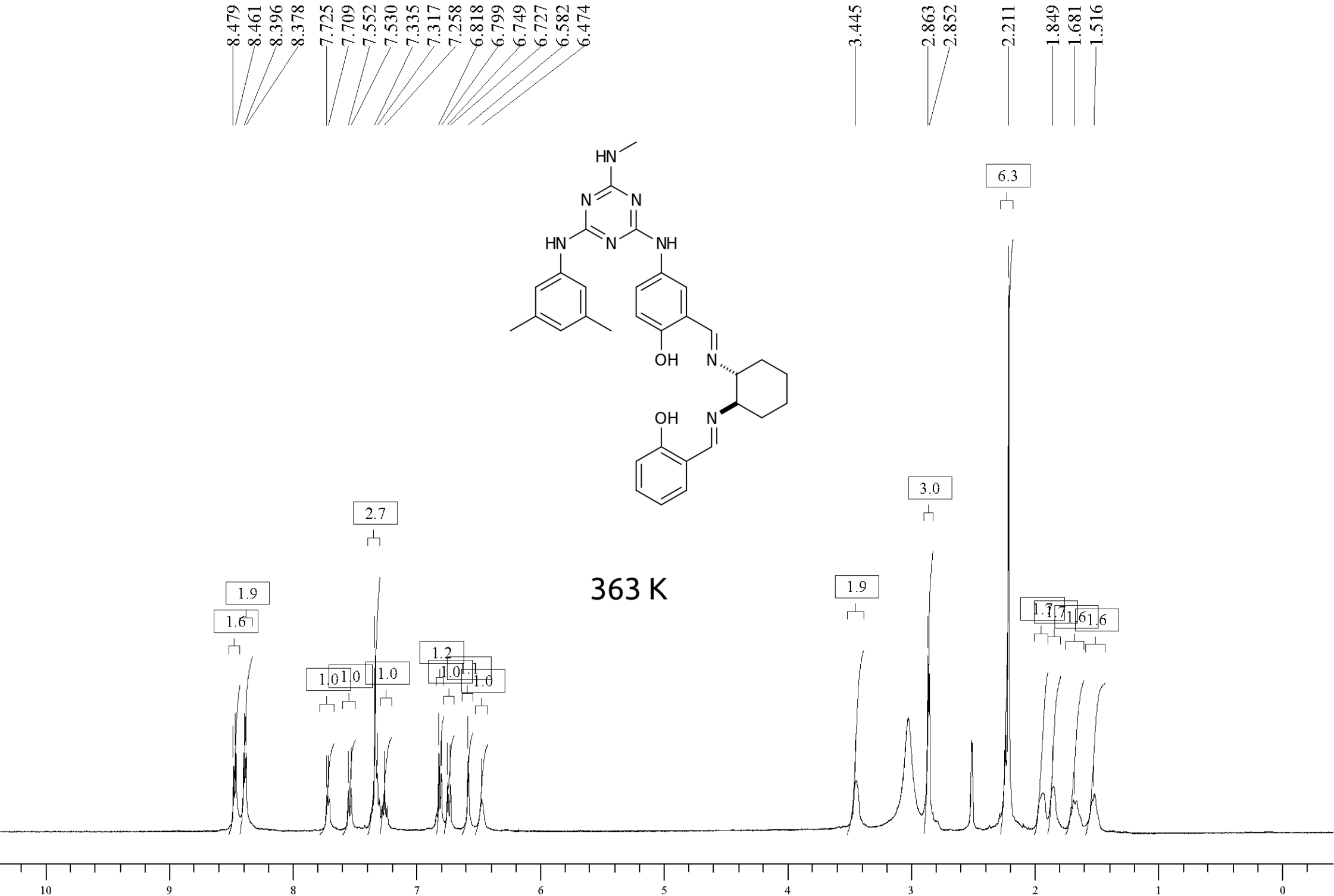
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N
NH
OH
N
OH
N
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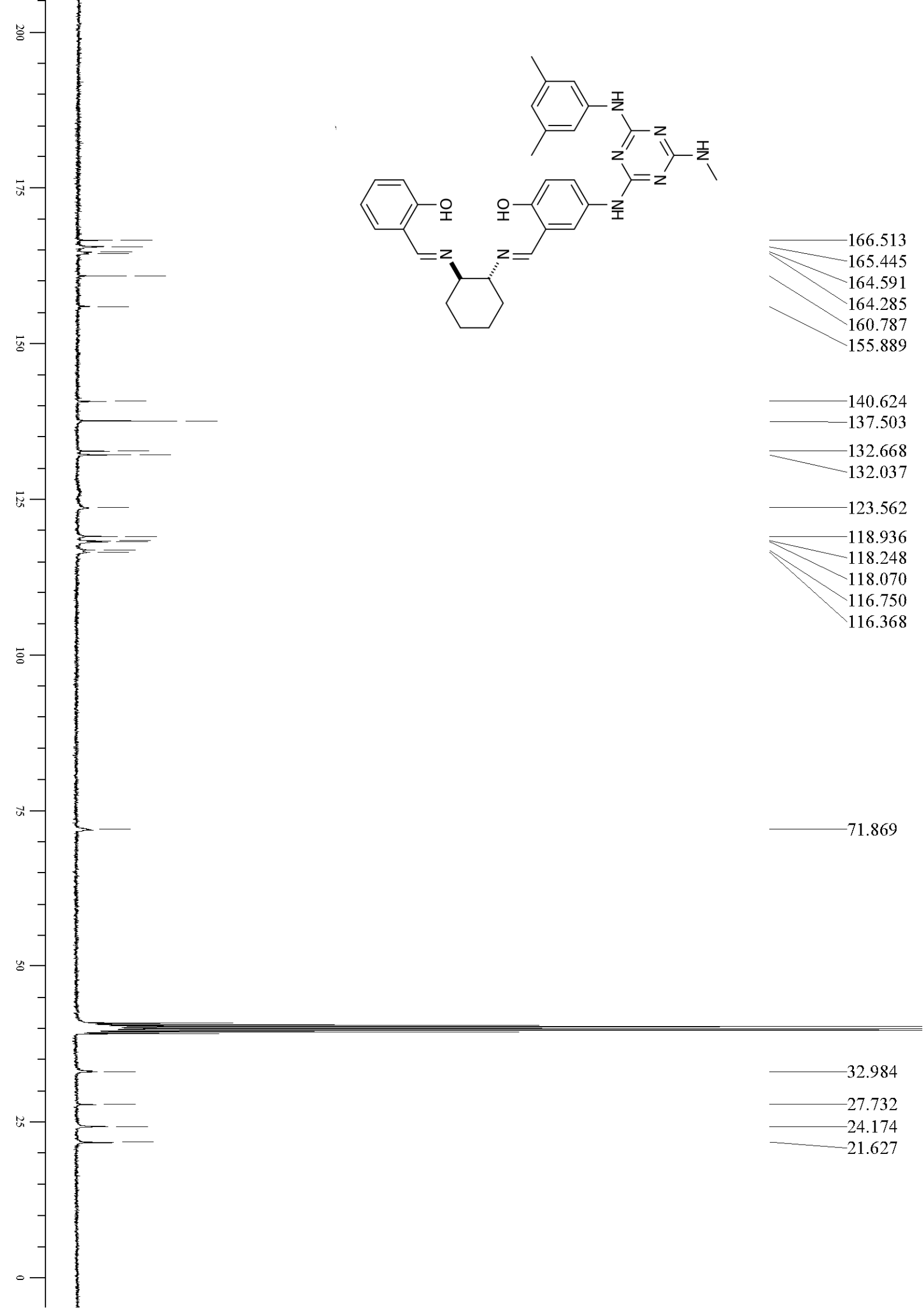
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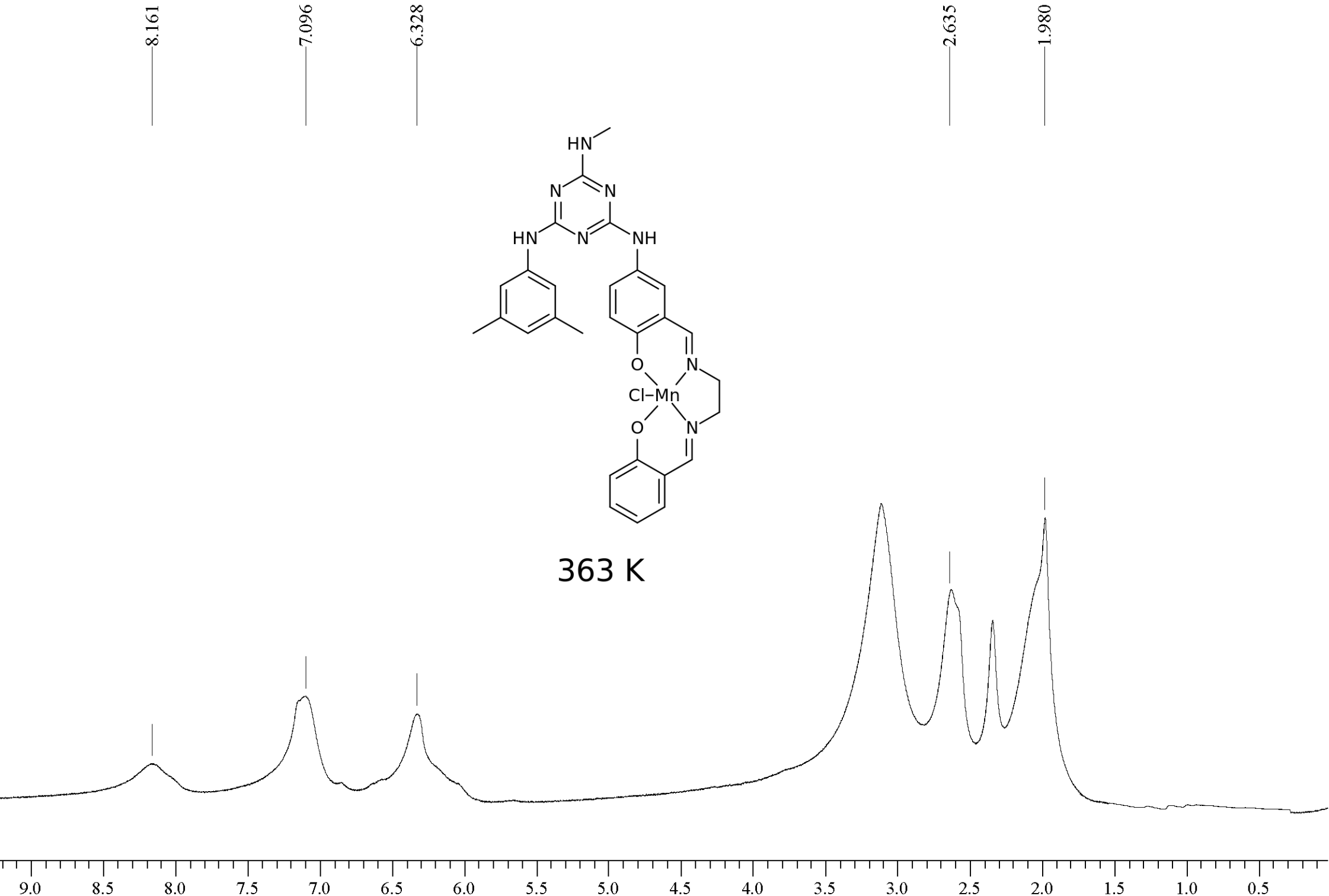
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Cl–Mn
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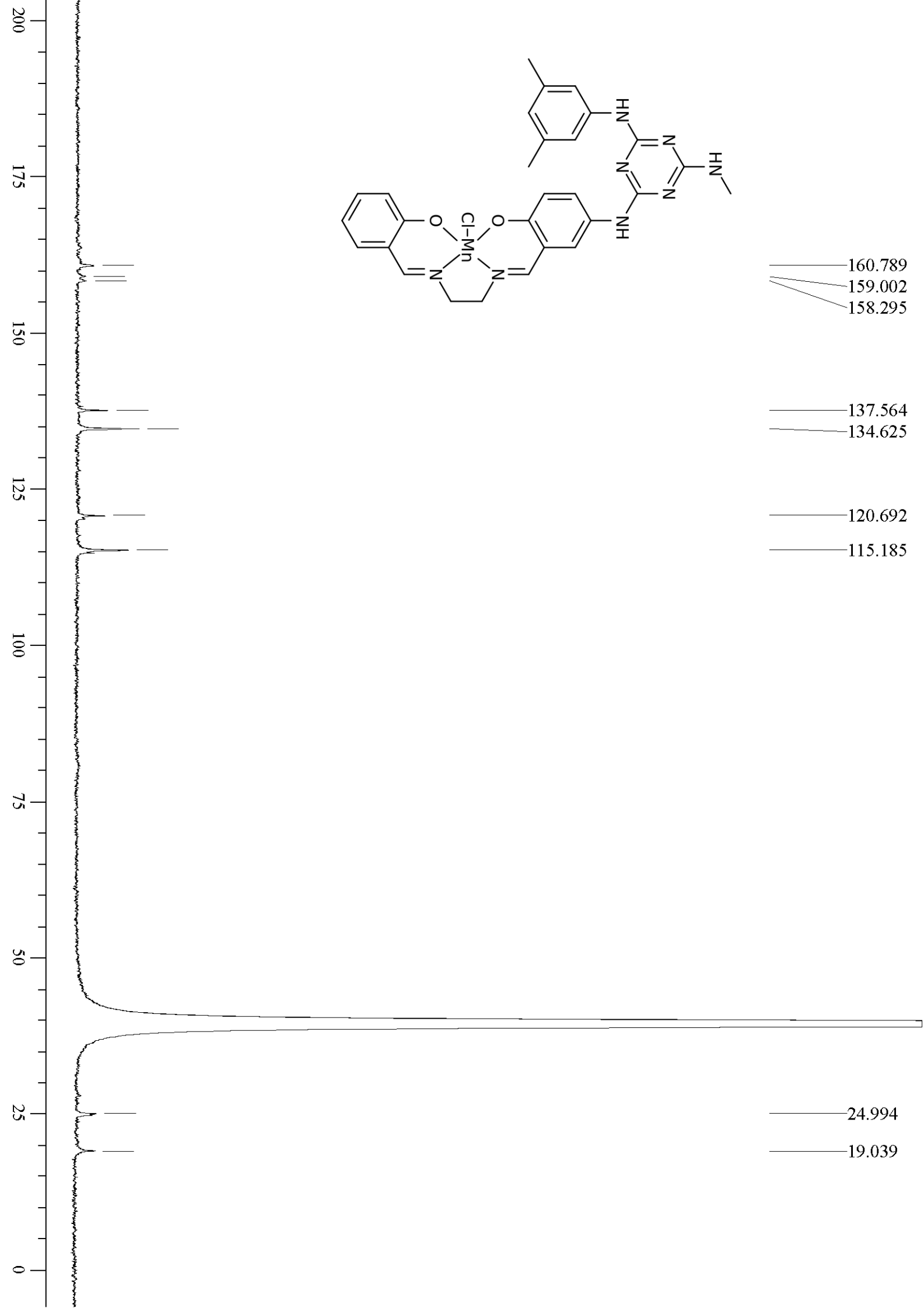
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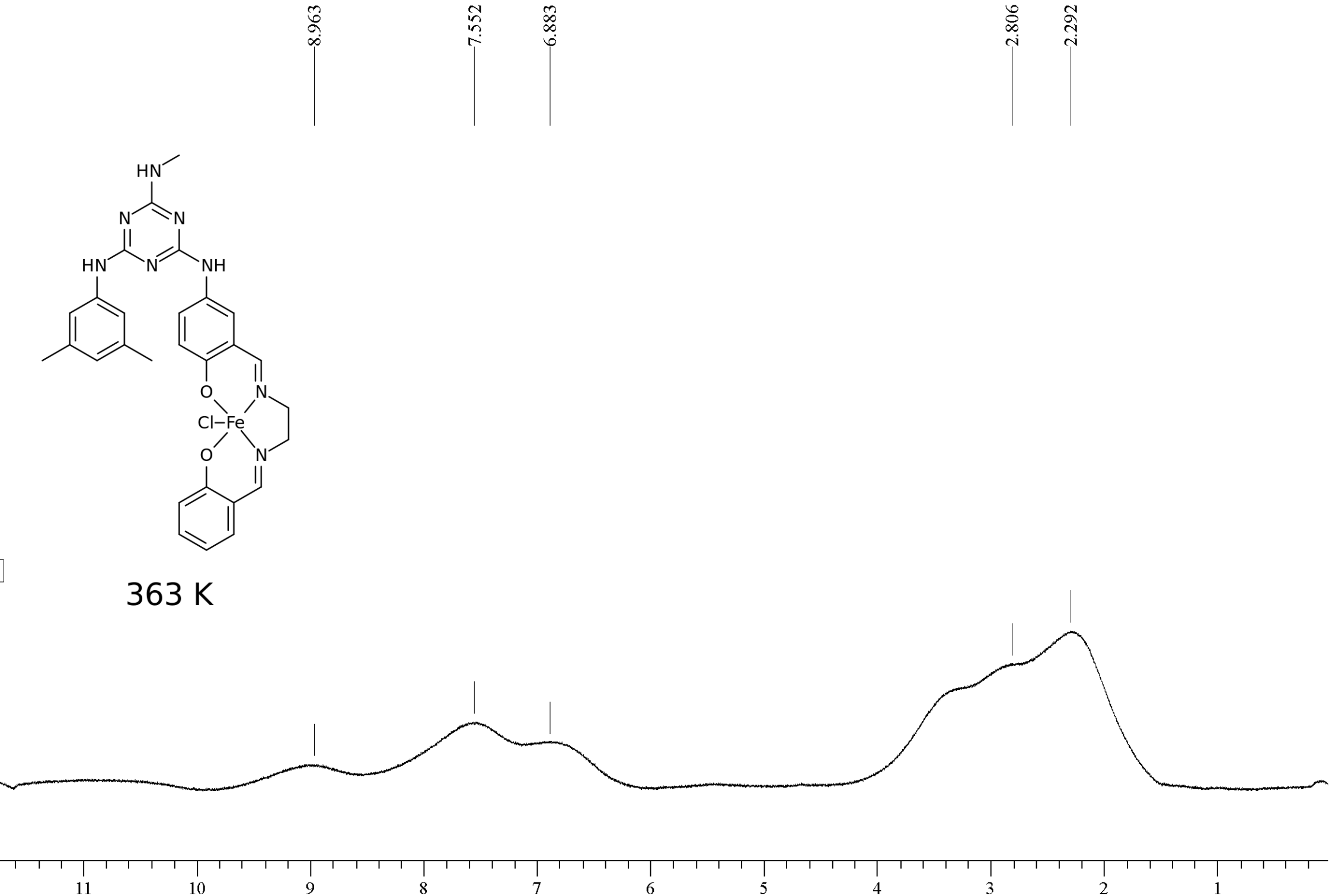
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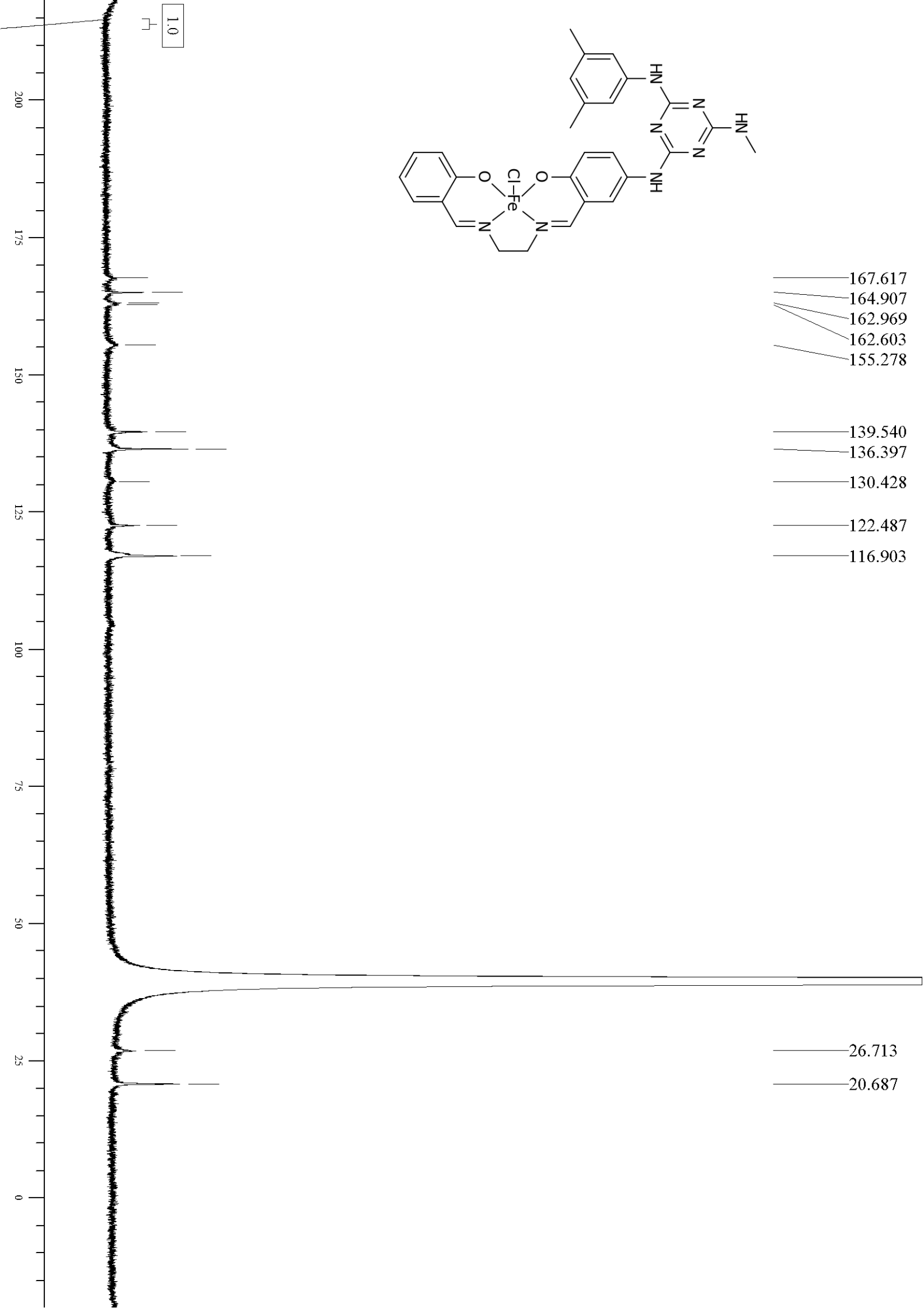
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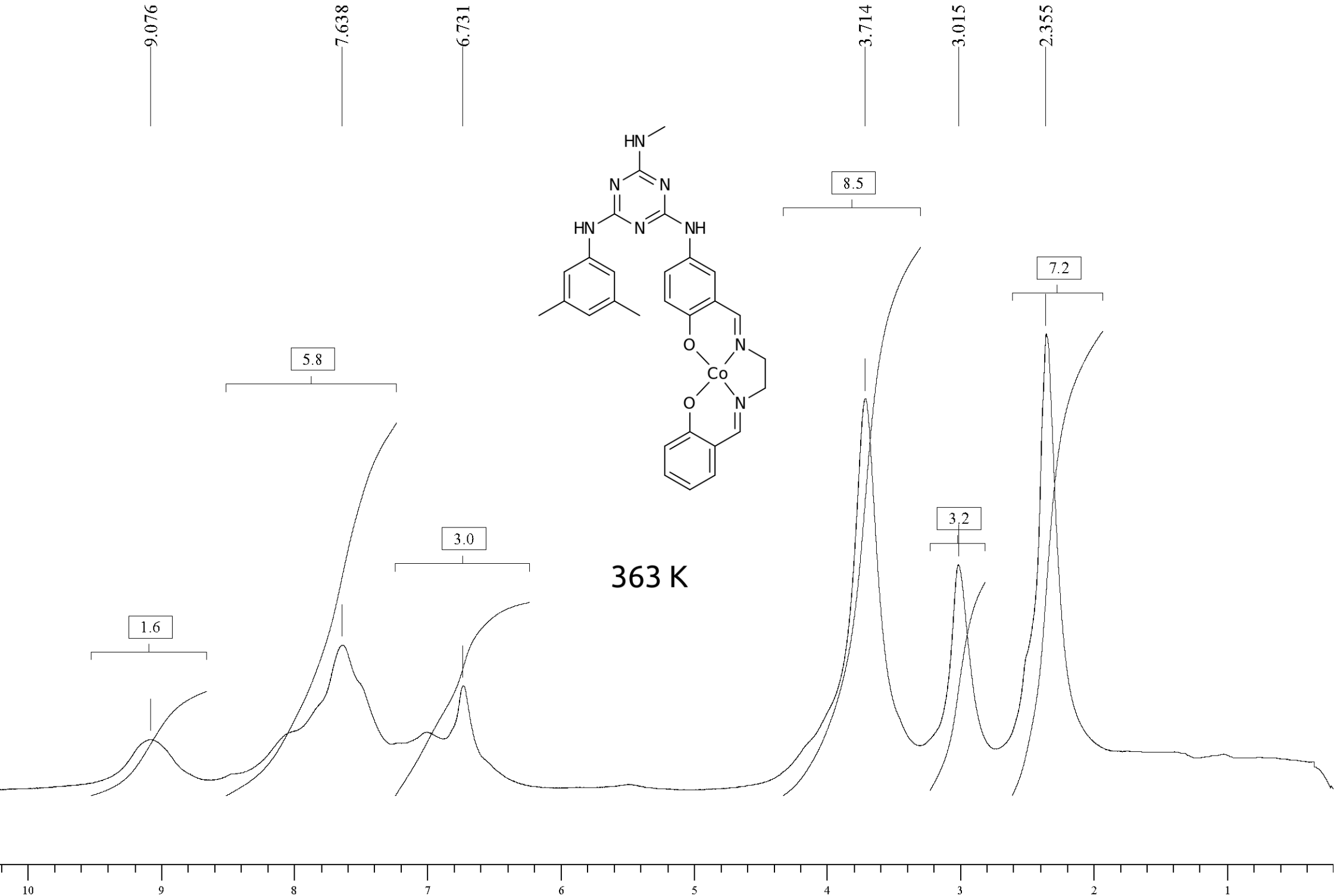
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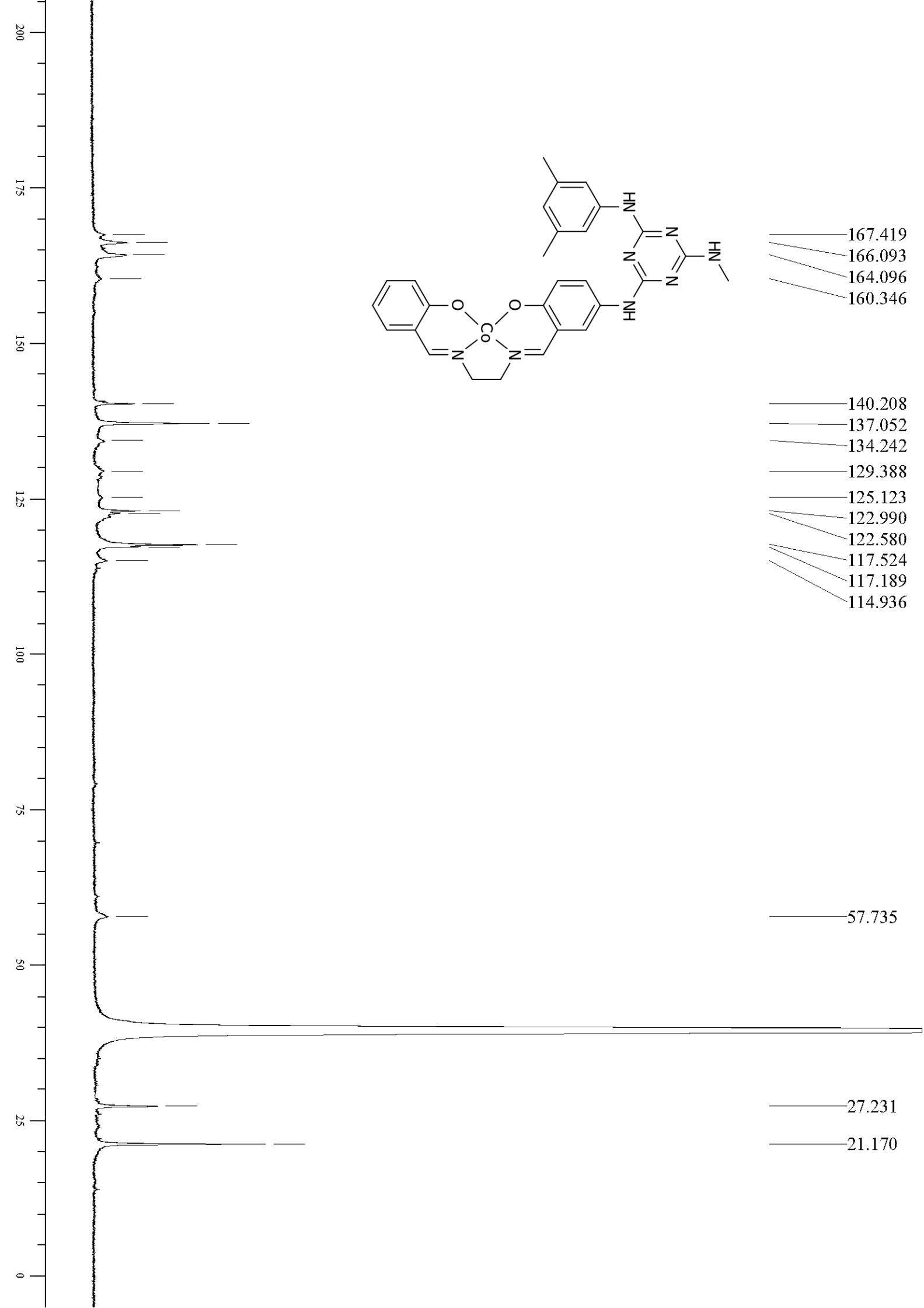
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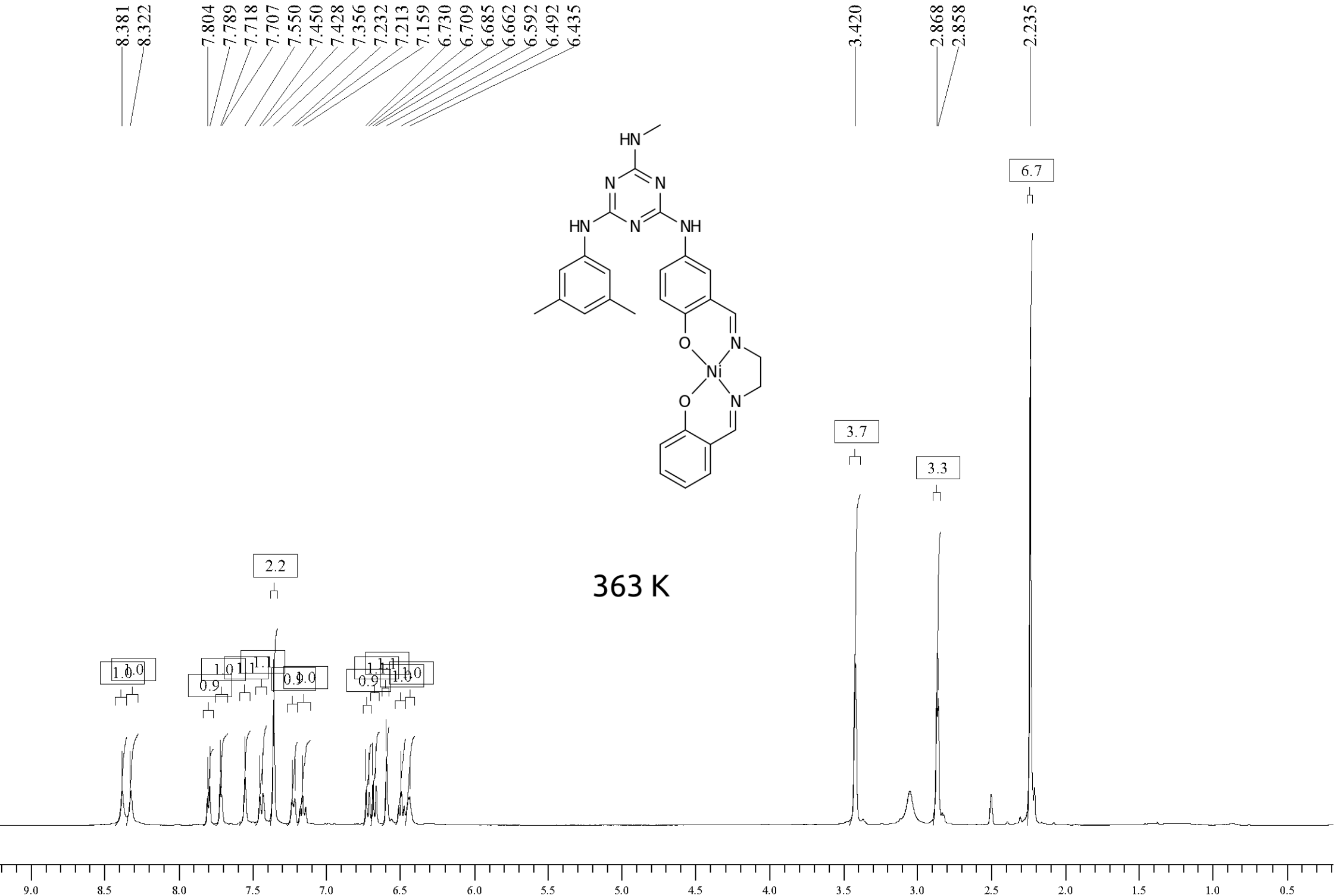
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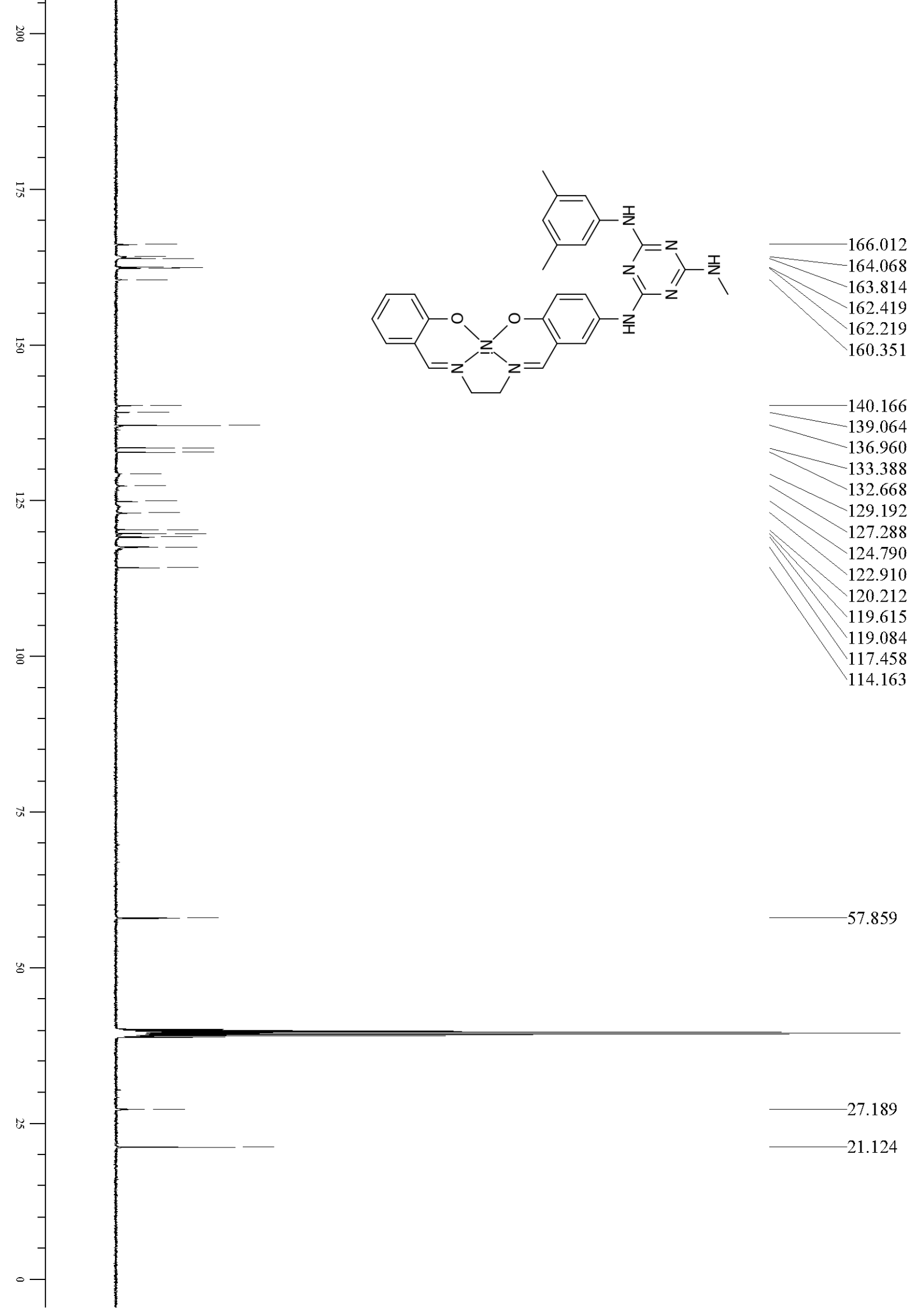
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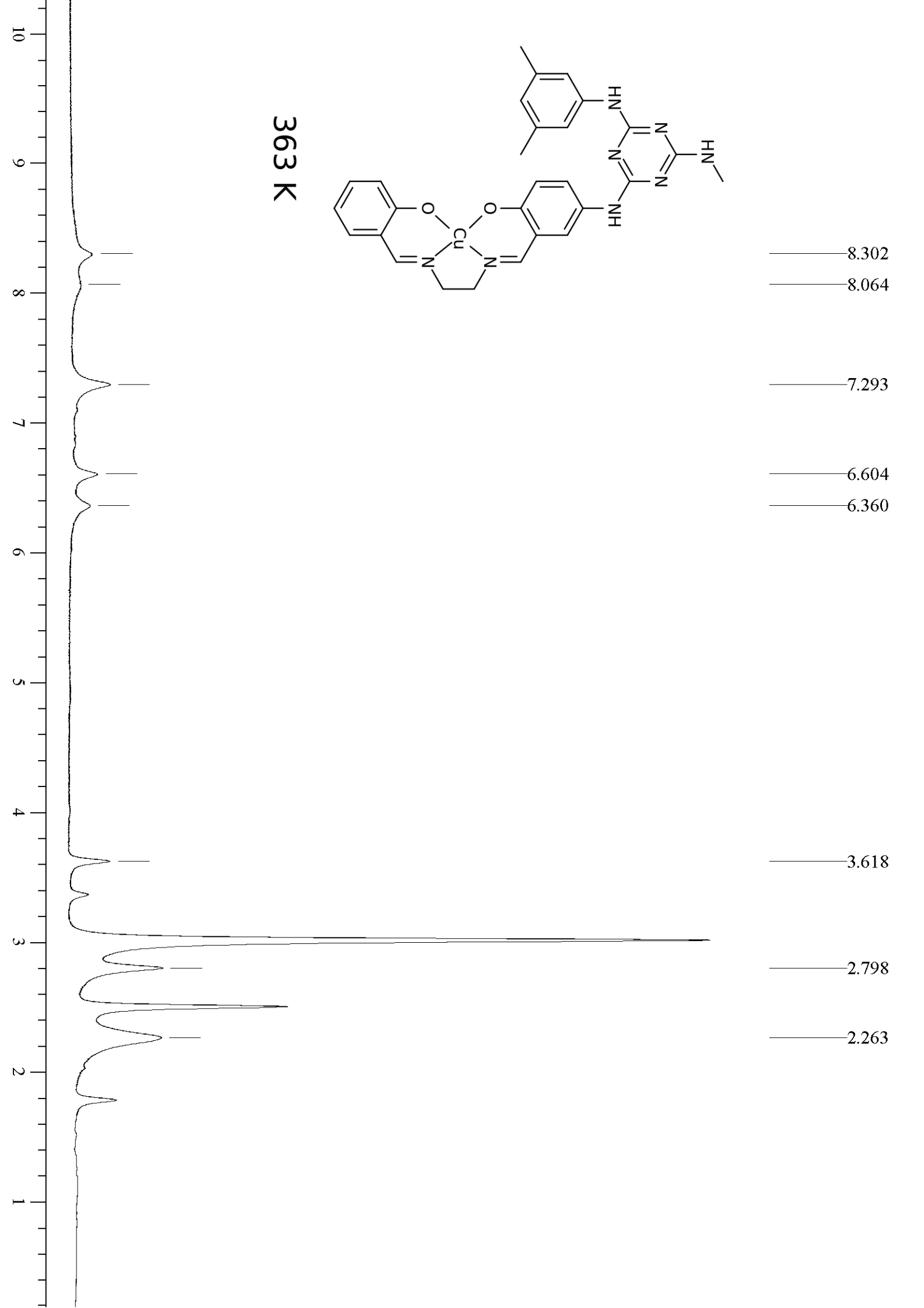
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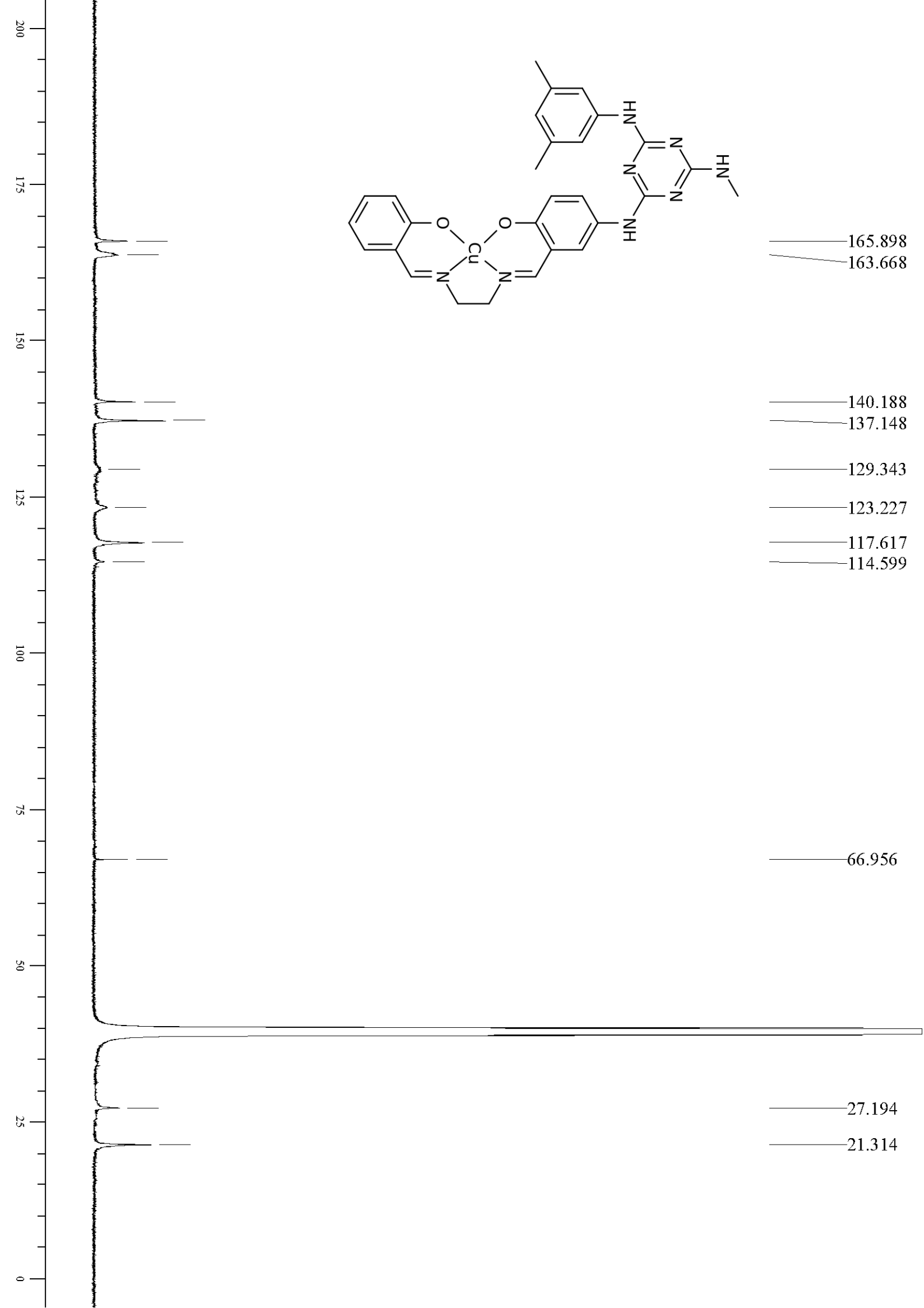
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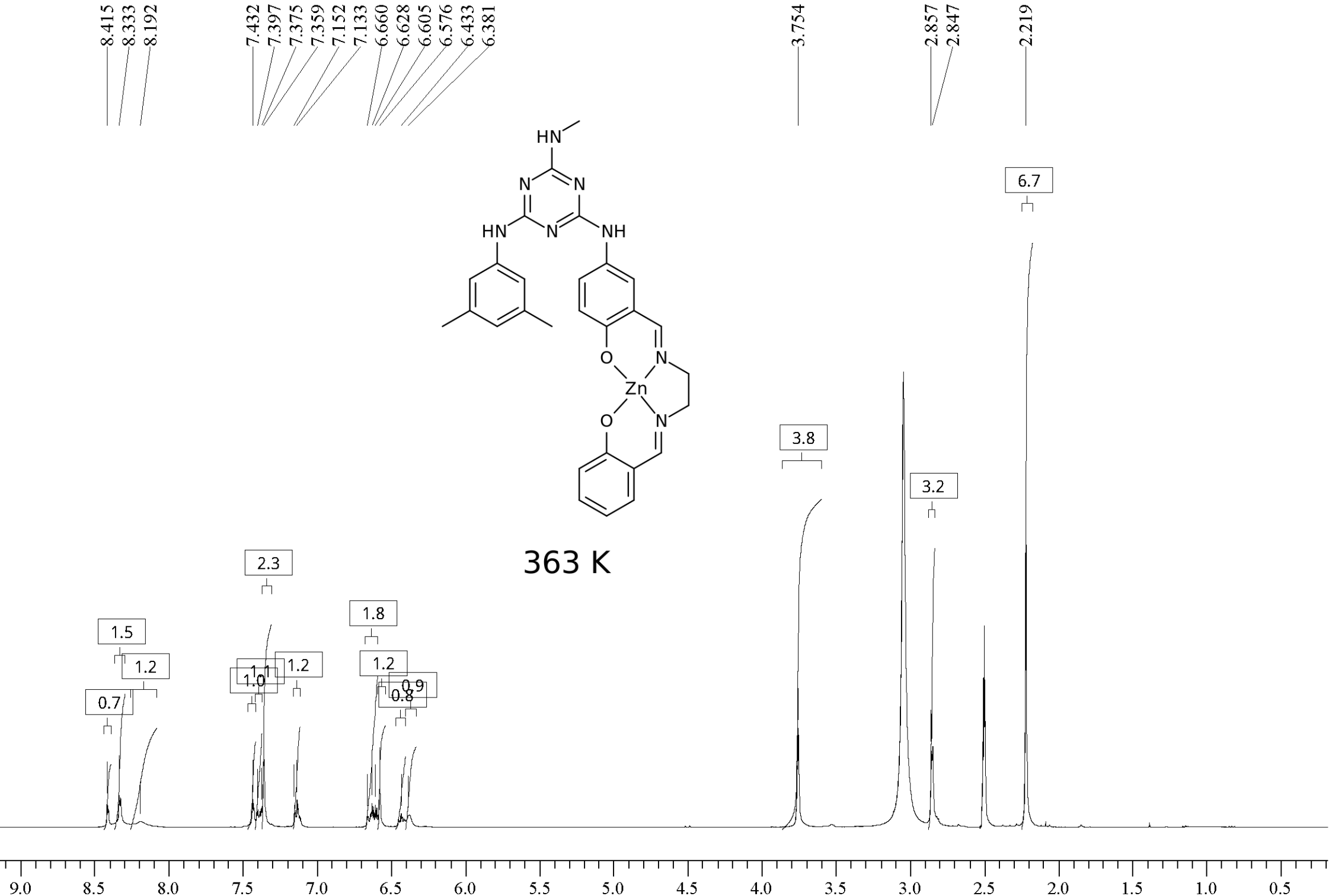
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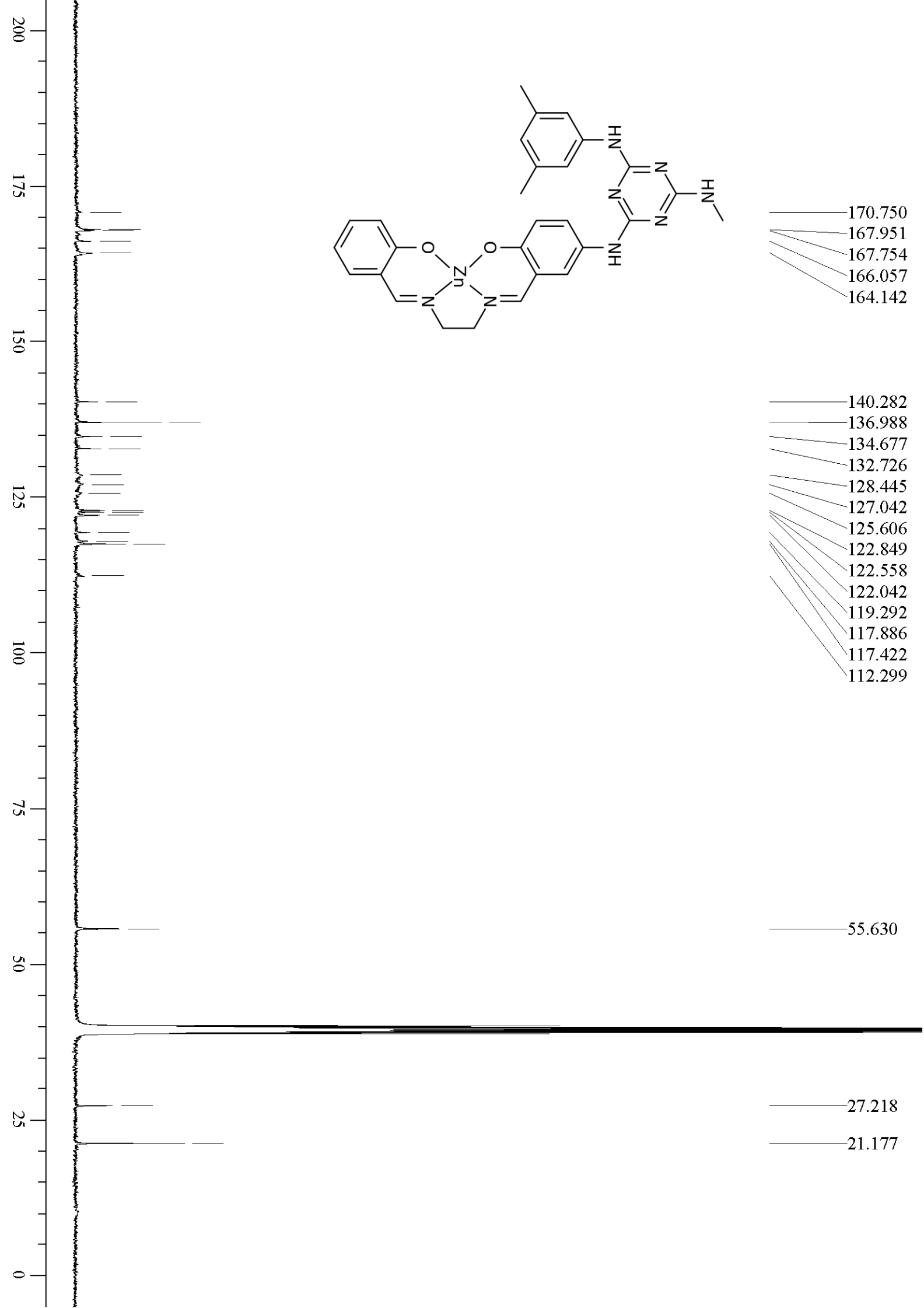
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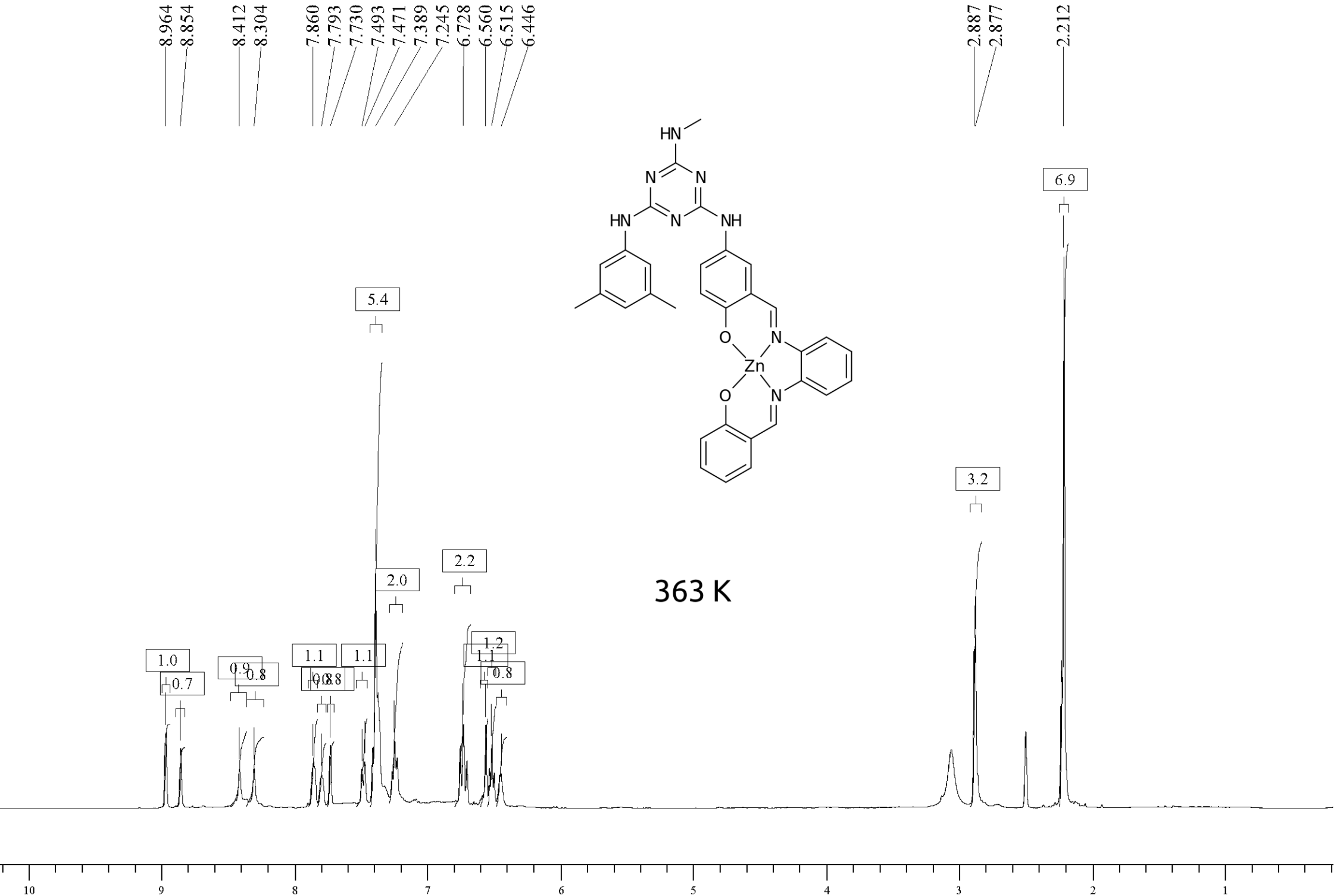
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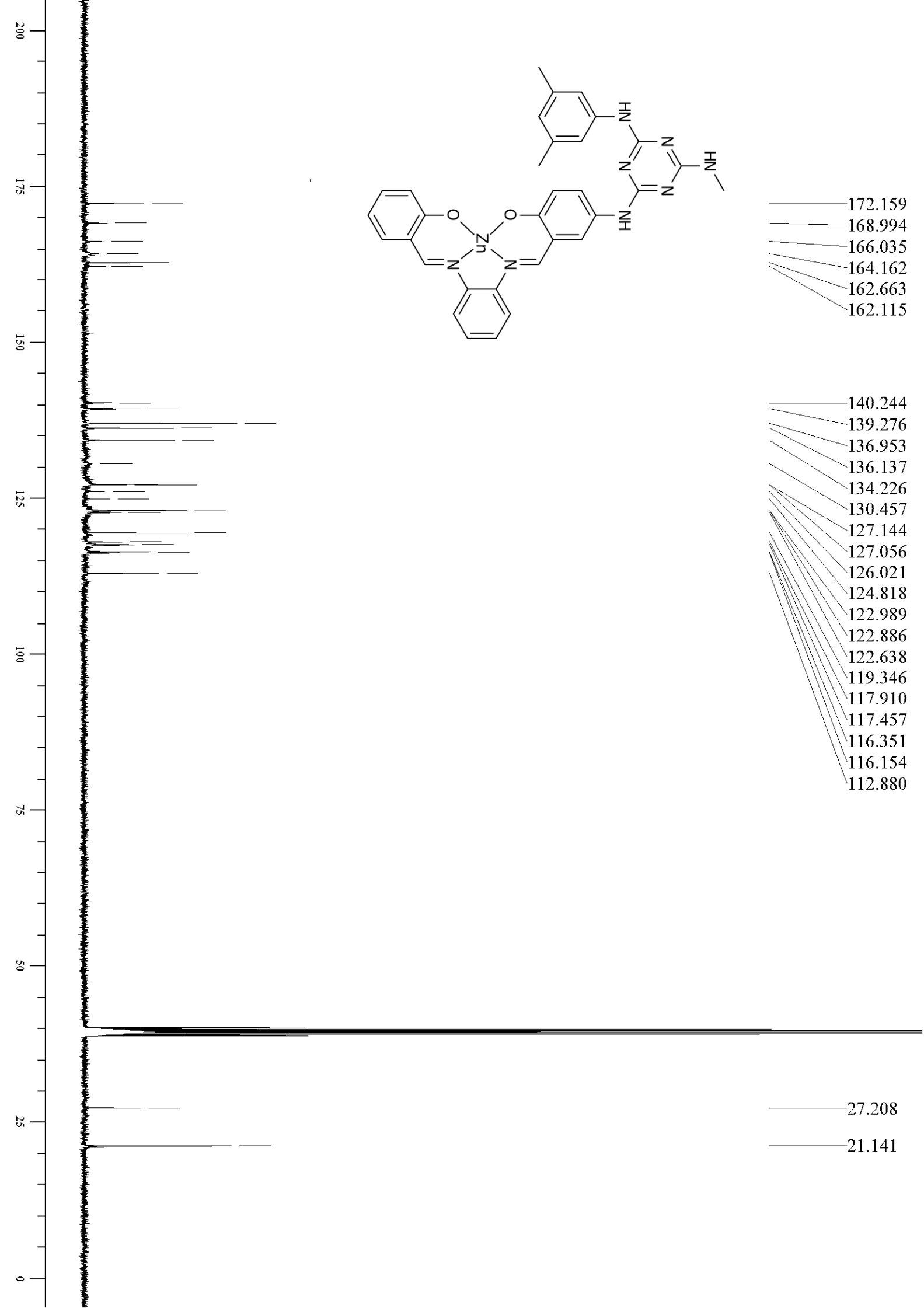
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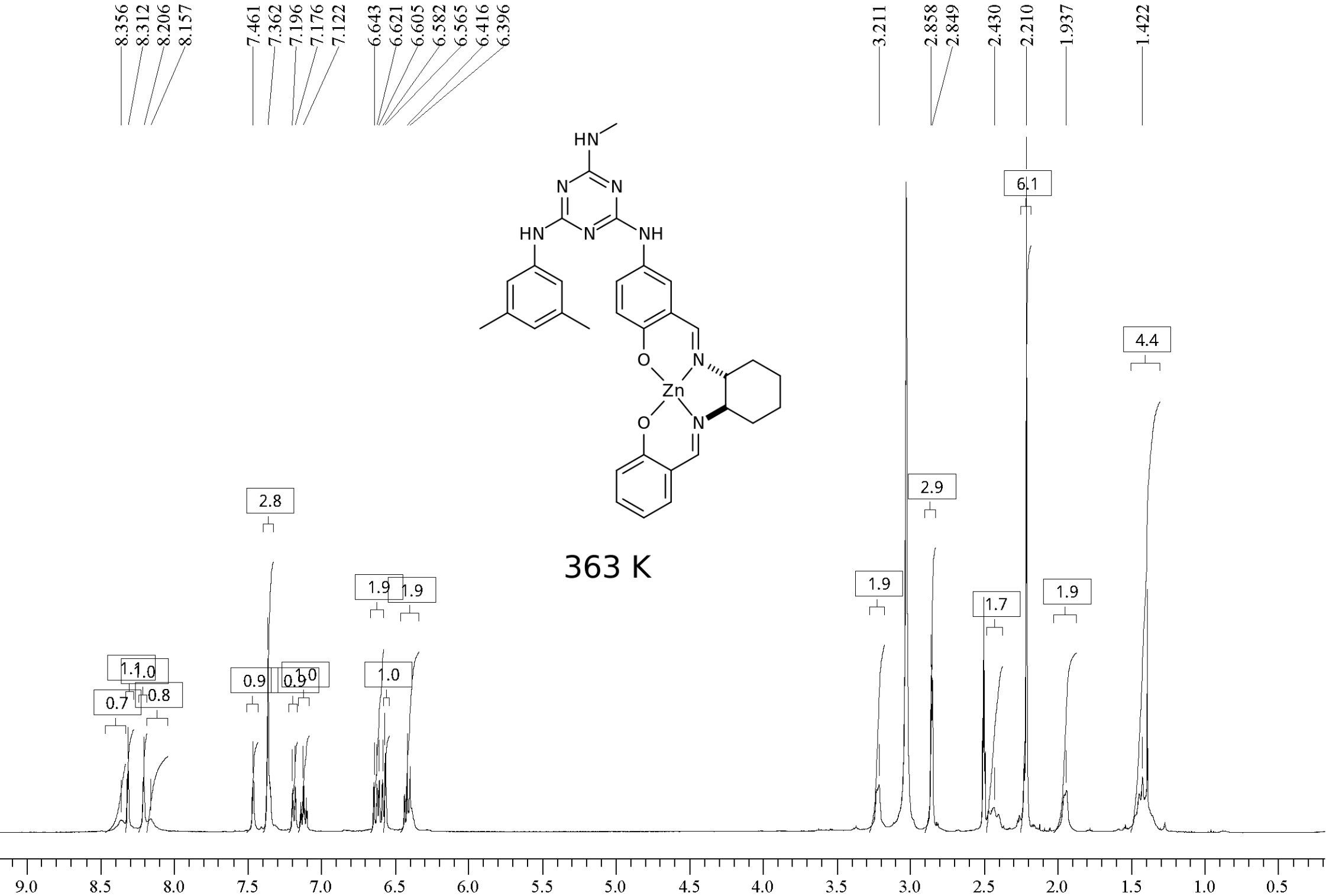
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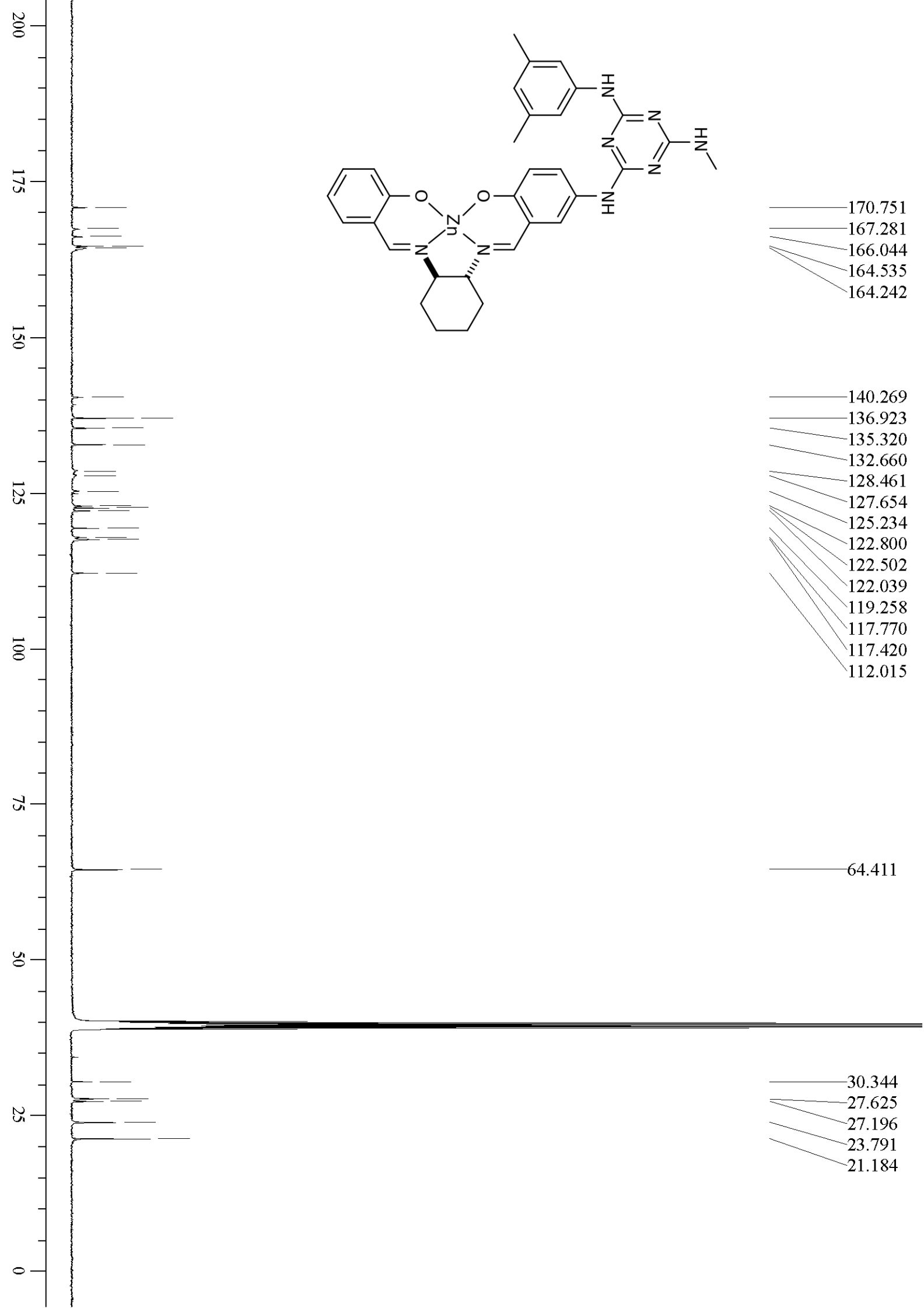
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