

Supporting Information for “Phosphate tricyclic coumarin analogs as steroid sulfatase inhibitors: synthesis and biological activity “

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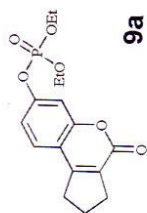
^a Department of Organic Chemistry, Chemical Faculty, Gdansk University of Technology, Narutowicza 11/12, 80-952 Gdansk, Poland

^b Department of Molecular Biology, Faculty of Biotechnology and Environment Sciences, The John Paul II Catholic University of Lublin, Konstantynów 1i, 20-708 Lublin, Poland

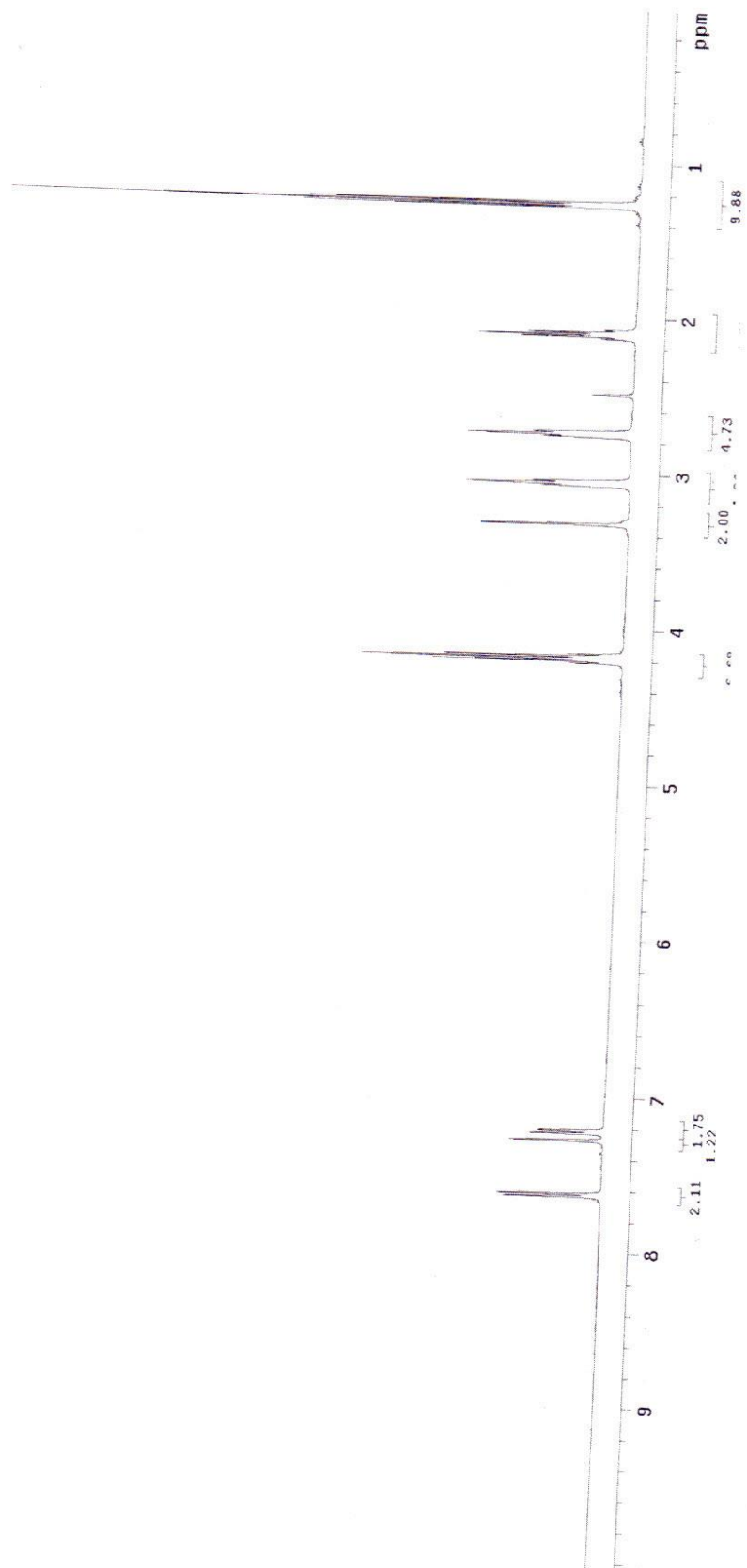
^c Drug Discovery Department, Adamed Group, Pieńków 149, 05-152 Czosnów, Poland

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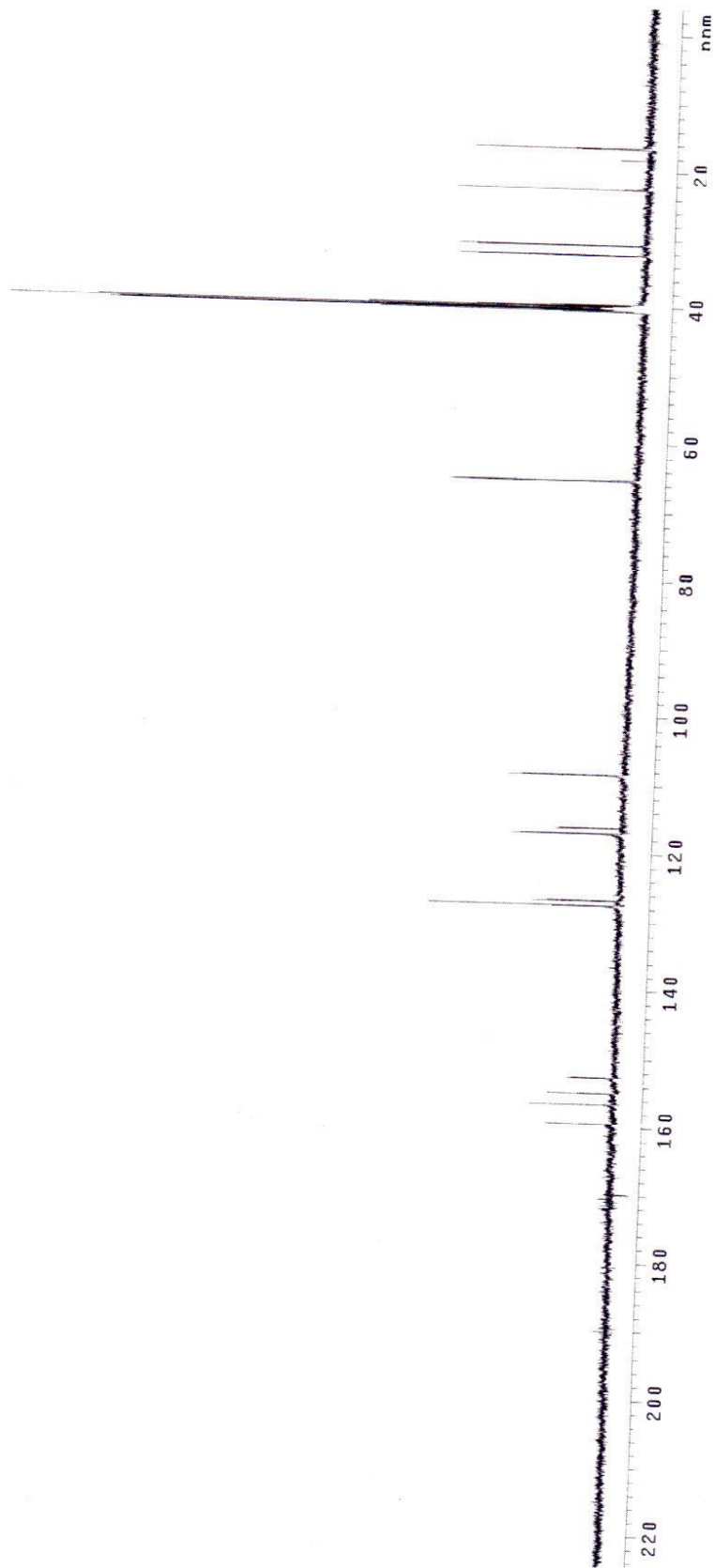
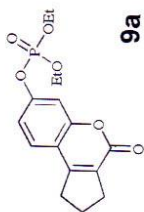
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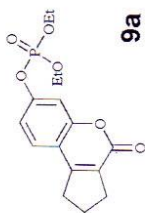
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¹³C NMR



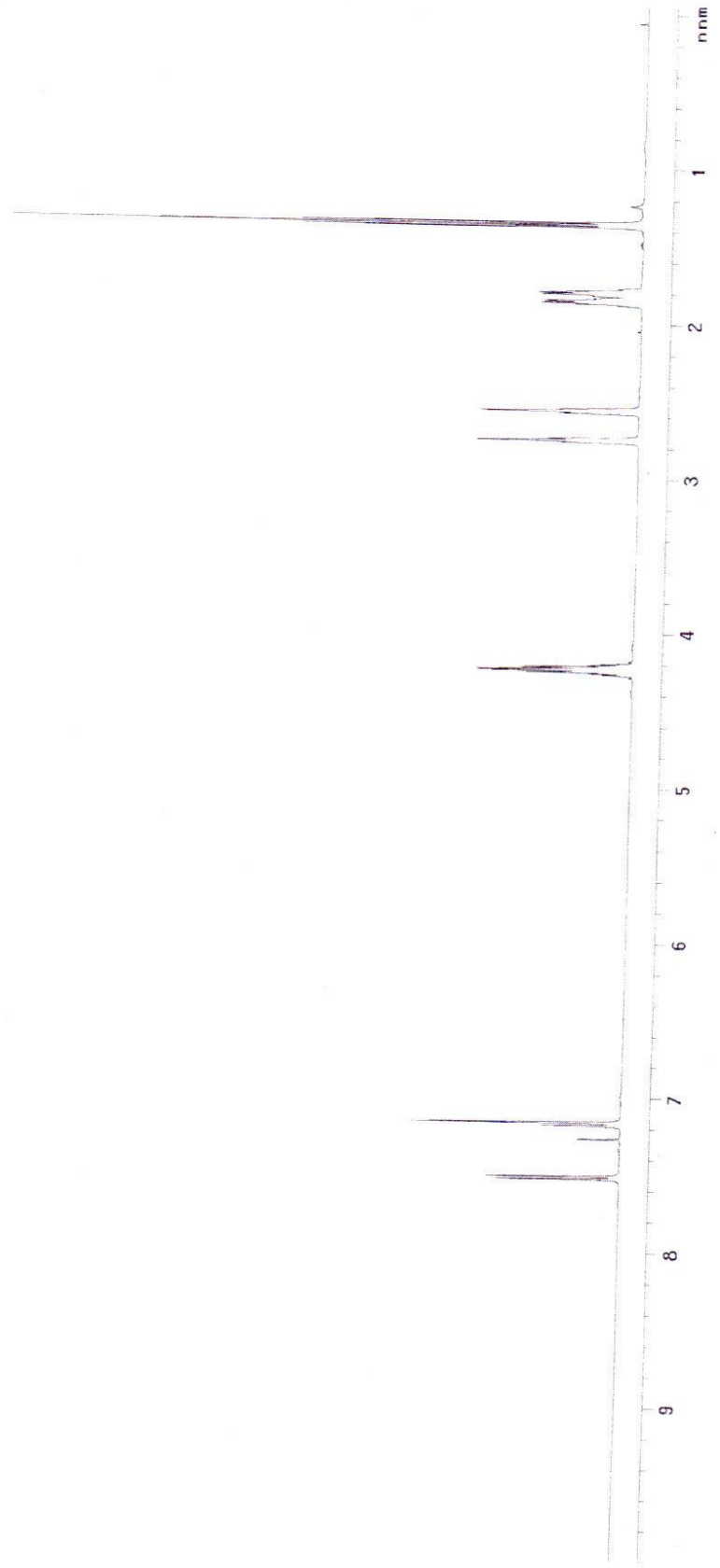
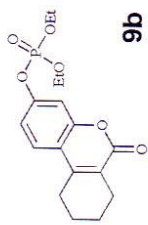
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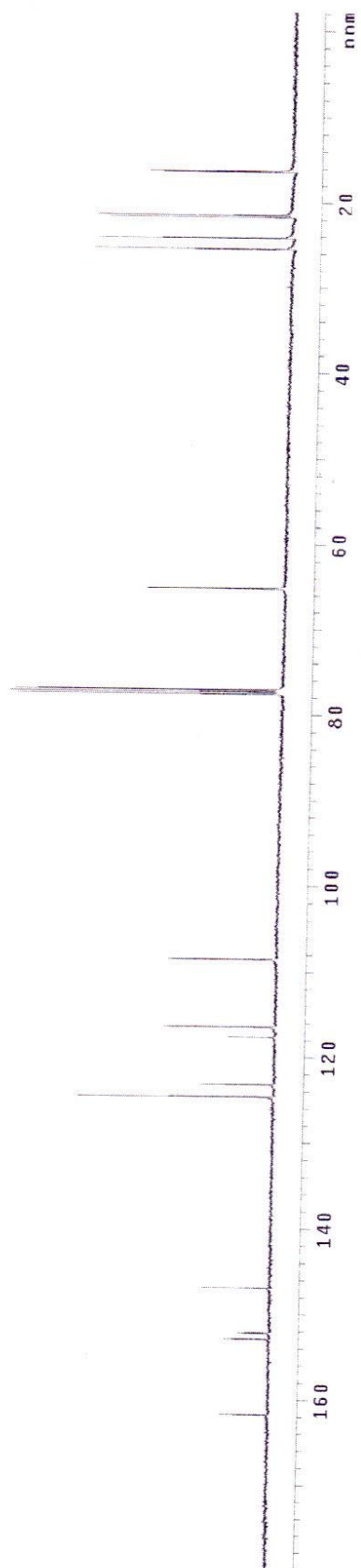
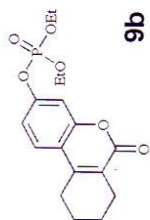
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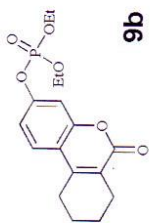
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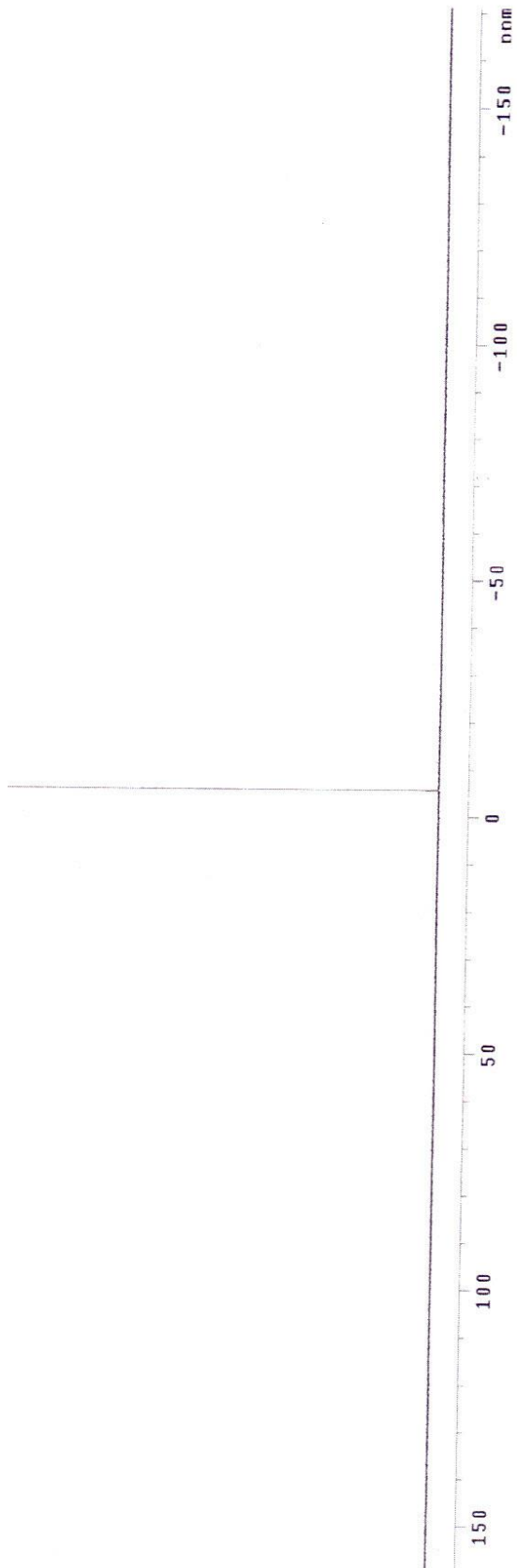
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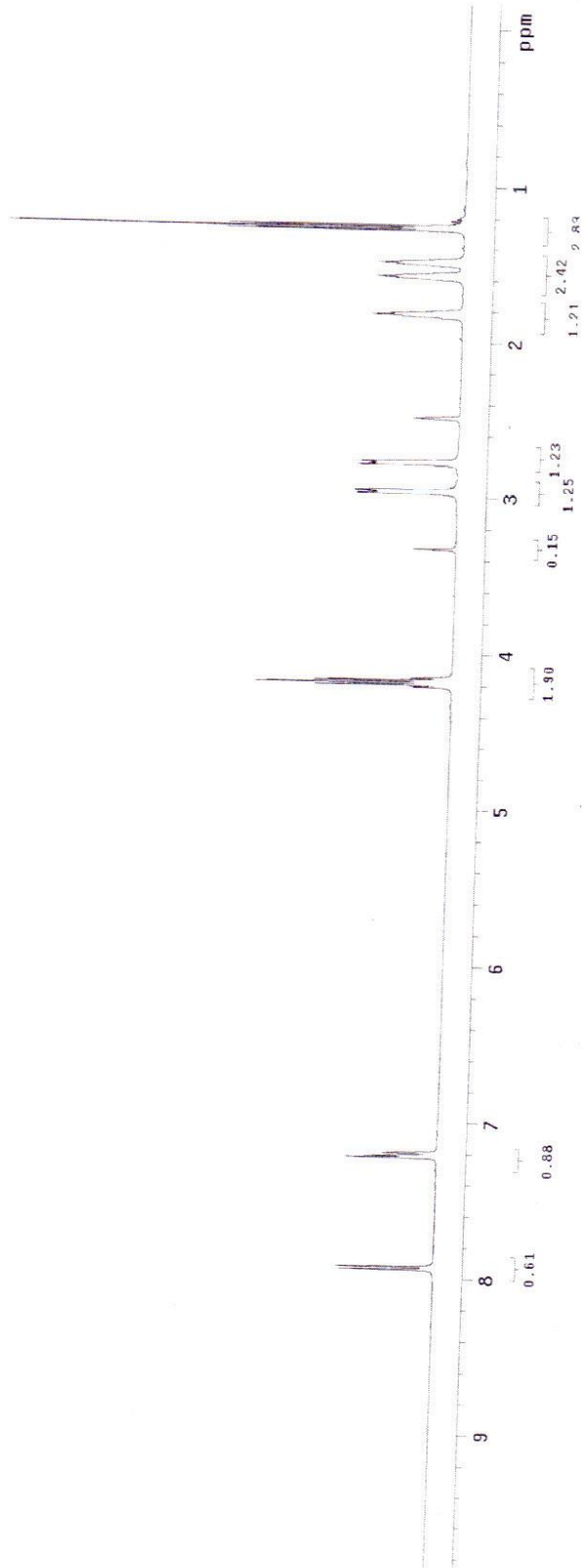
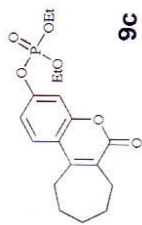
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| INDEX | FREQUENCY PPM | HEIGHT |
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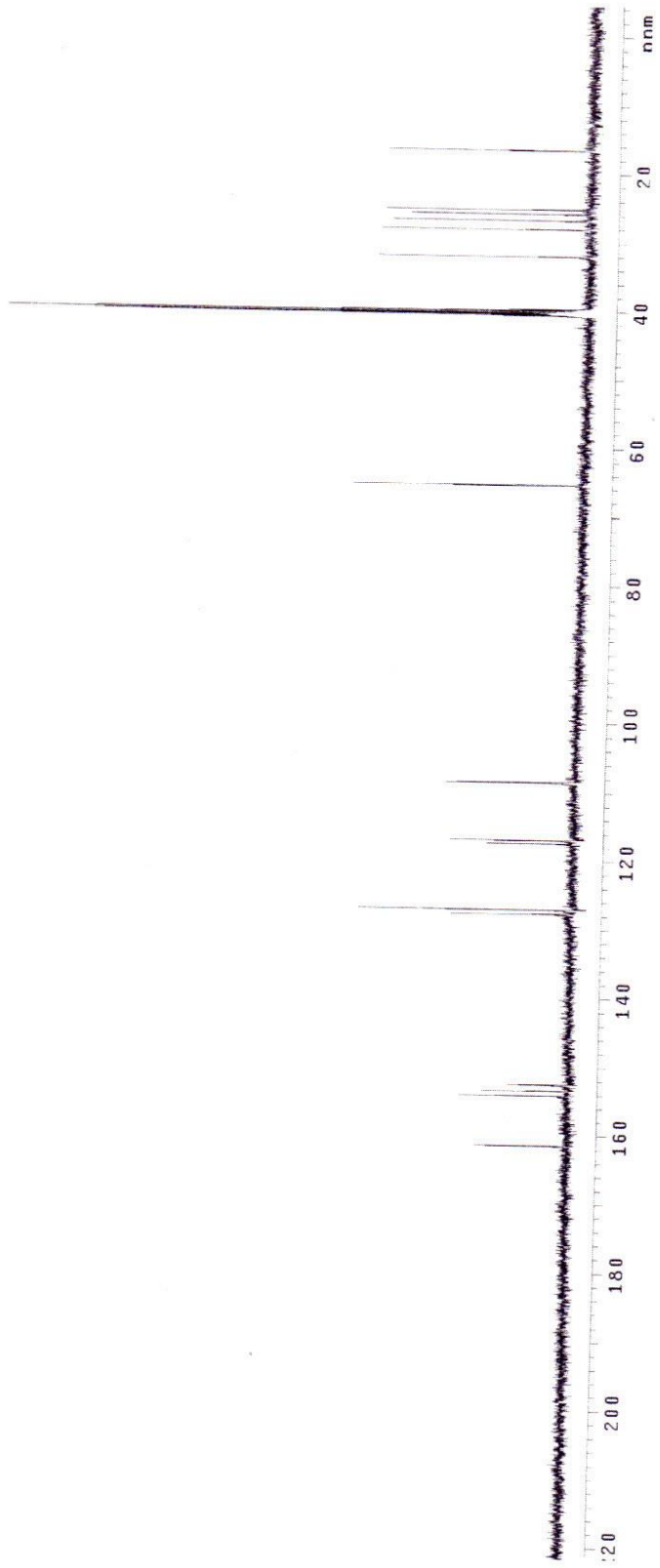
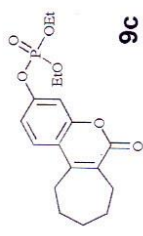


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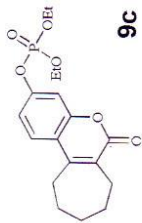


13C NMR

9c

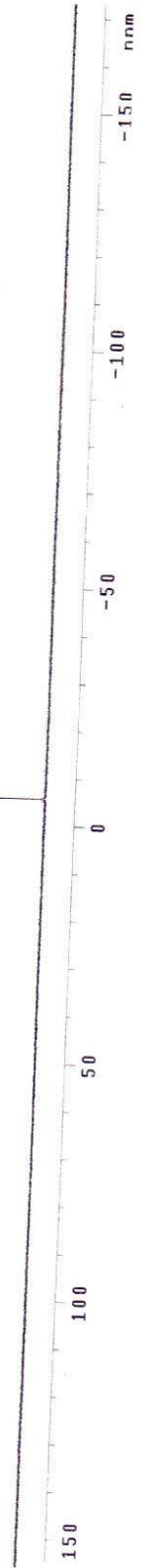


³¹P NMR

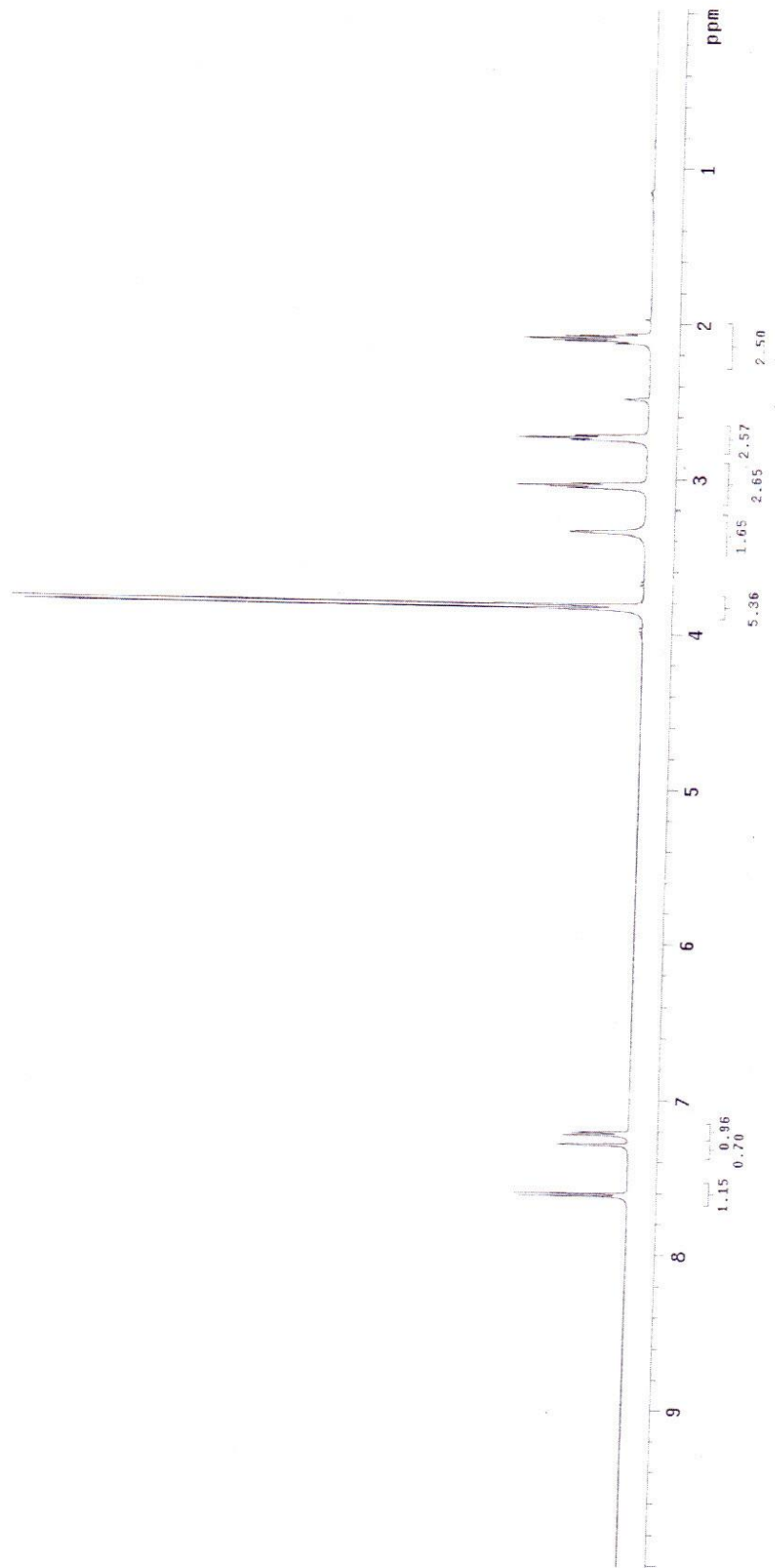
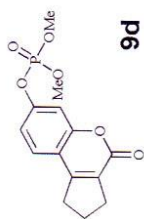


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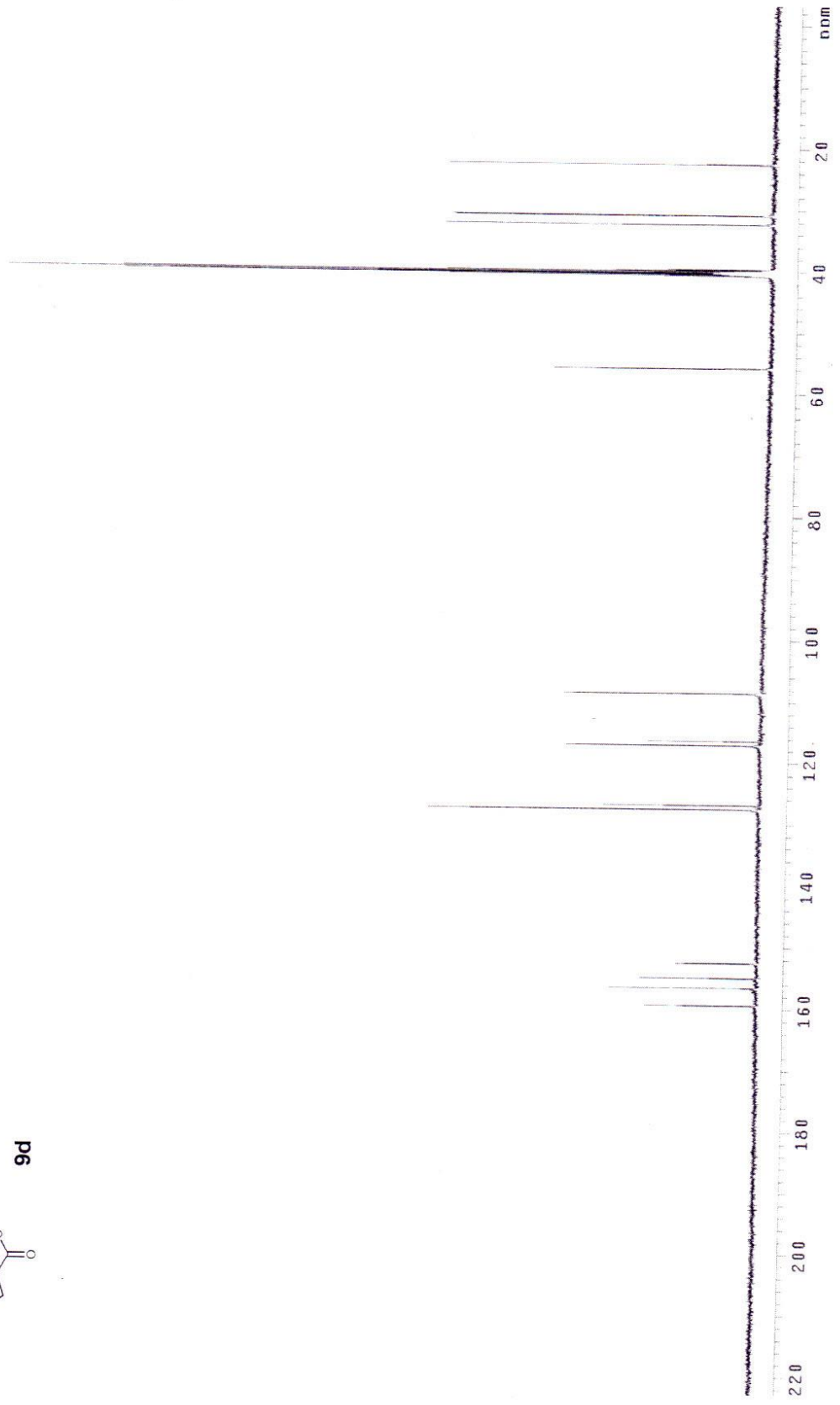
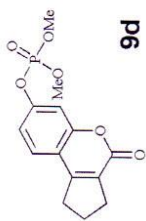
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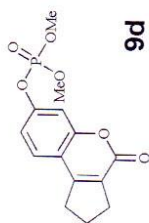
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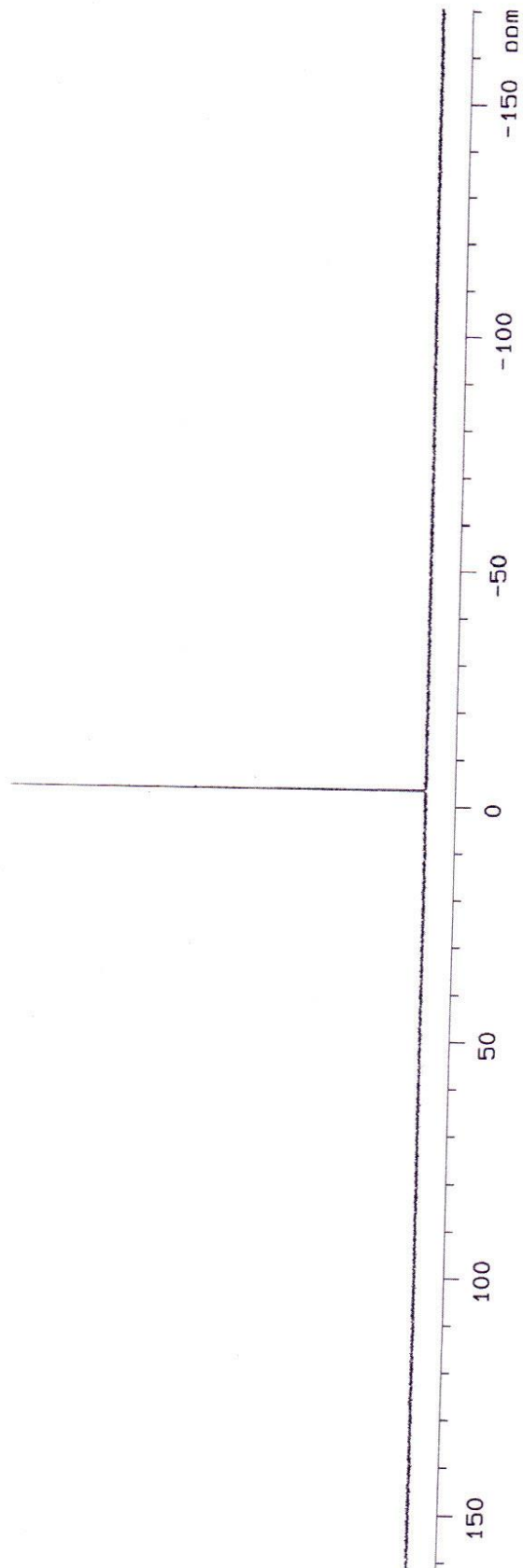
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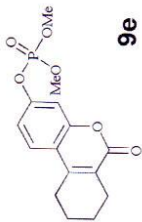
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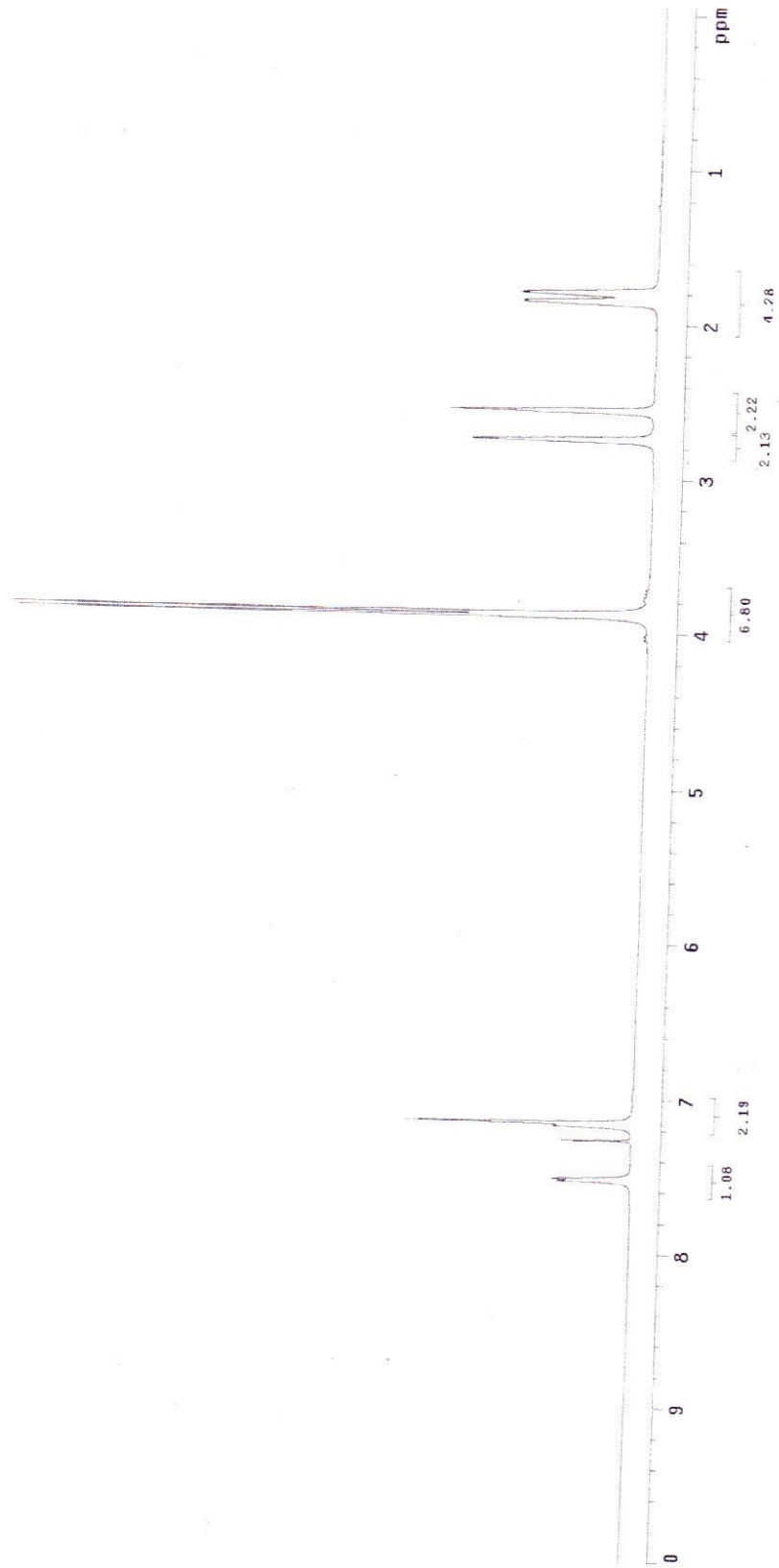
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| 1 | -693.989 | -3.430 | 45.7 |



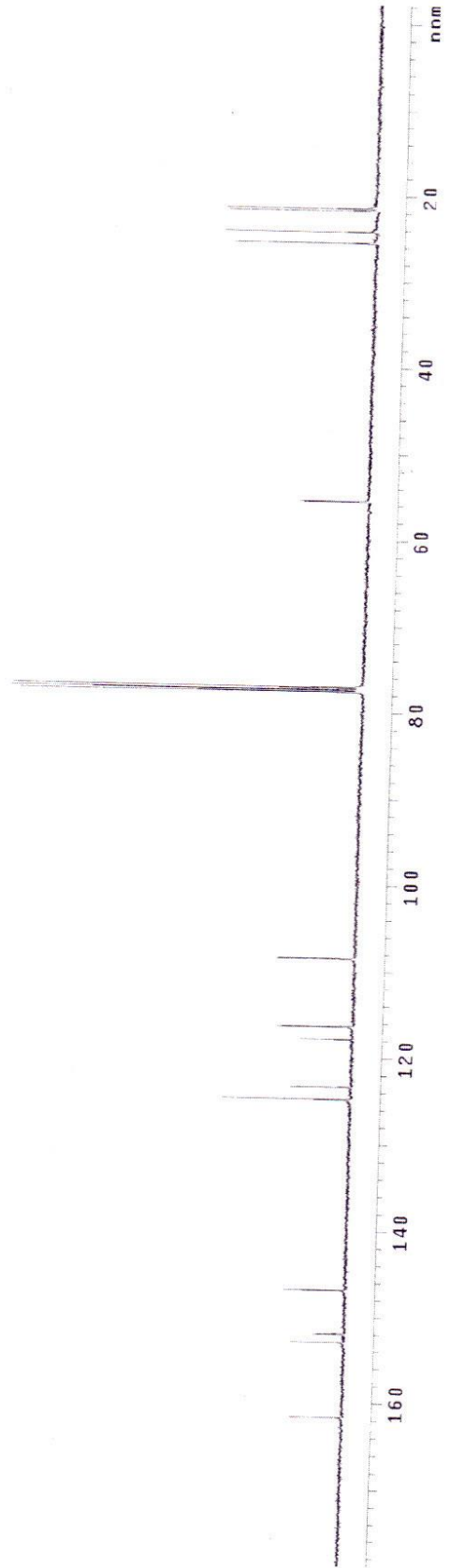
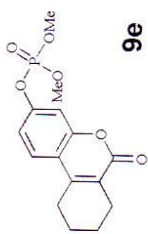
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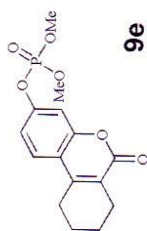
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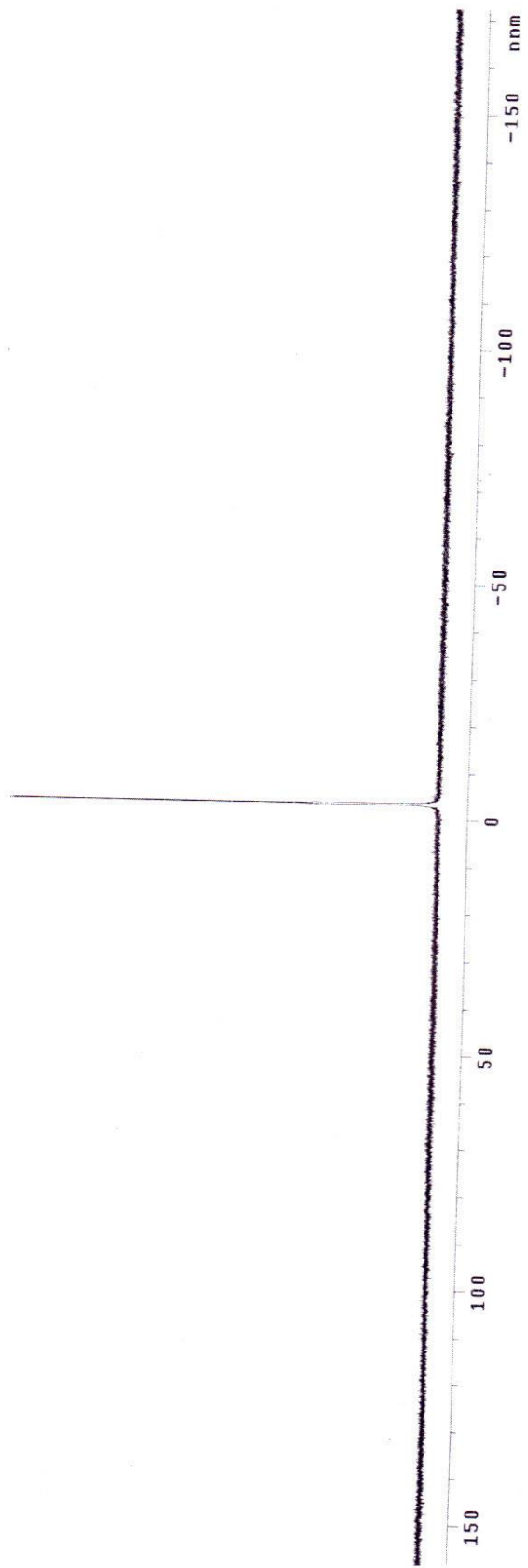
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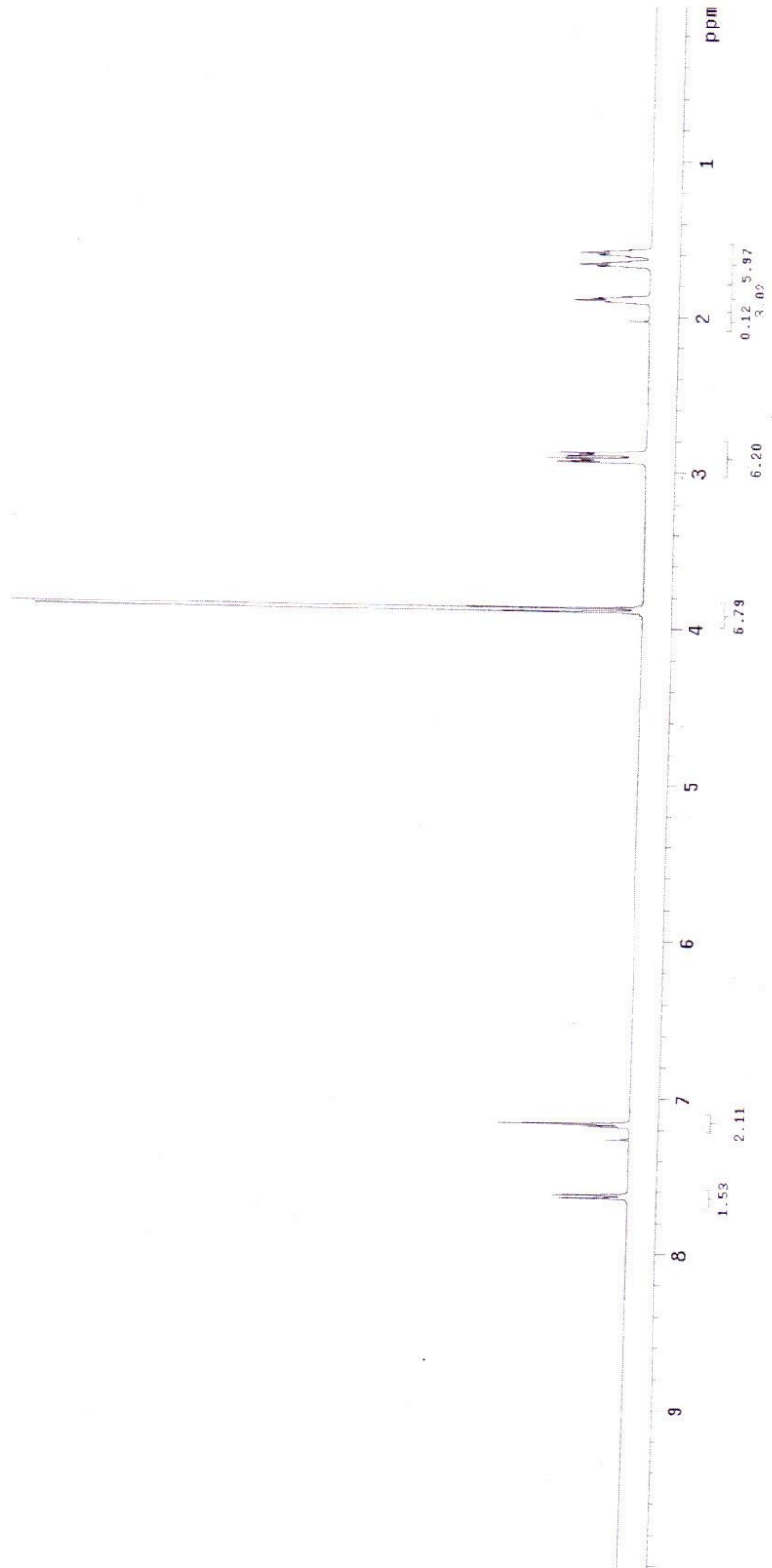
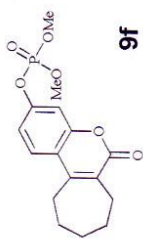
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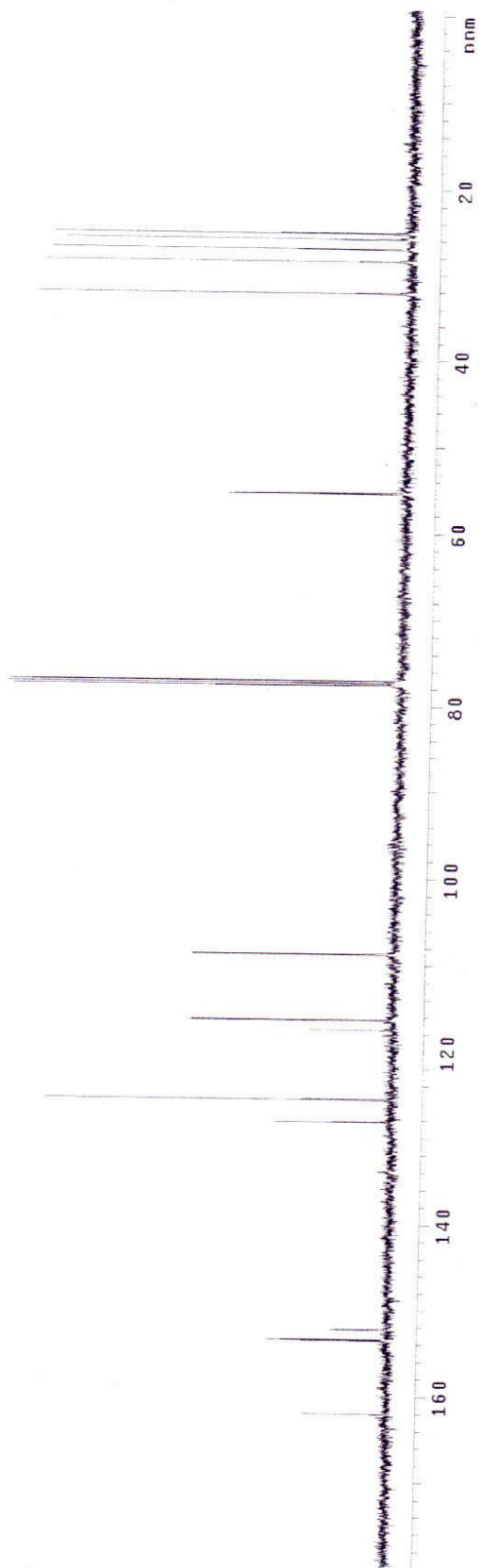
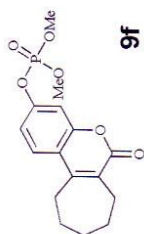
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| 1 | -674.366 | -3.333 | 6.3 |



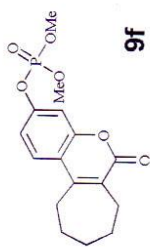
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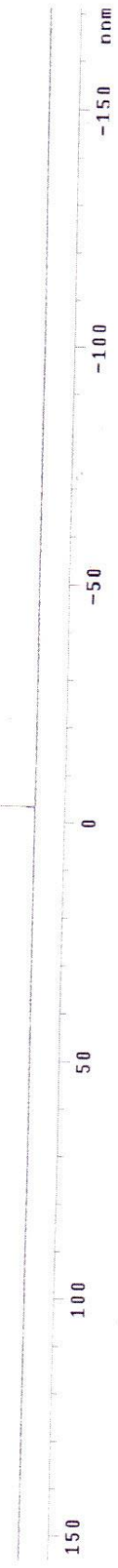
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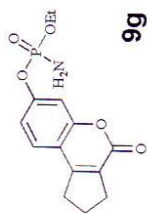
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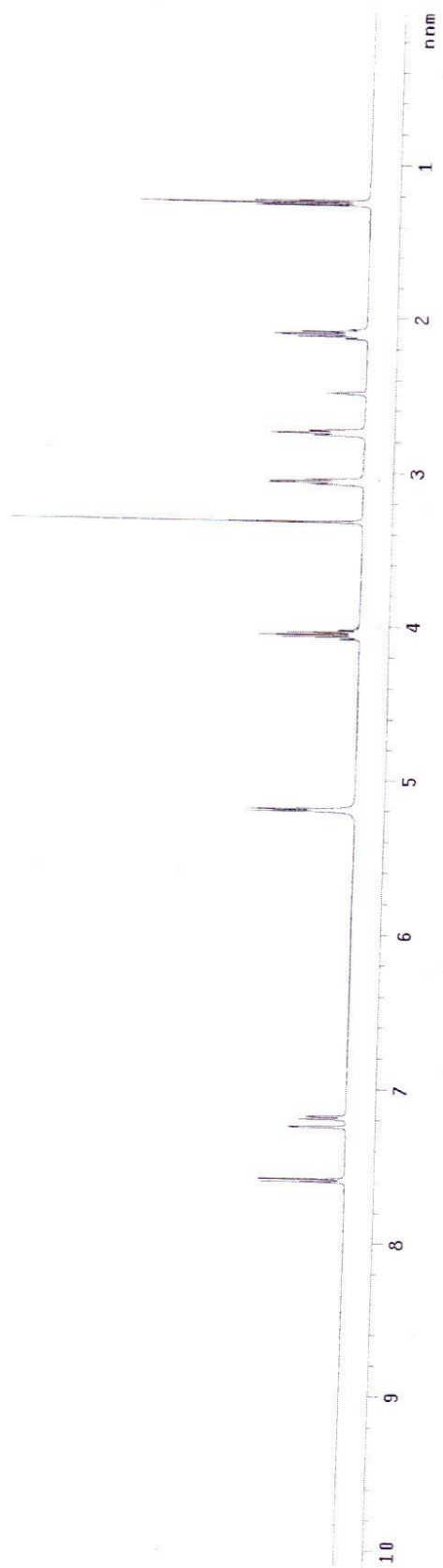
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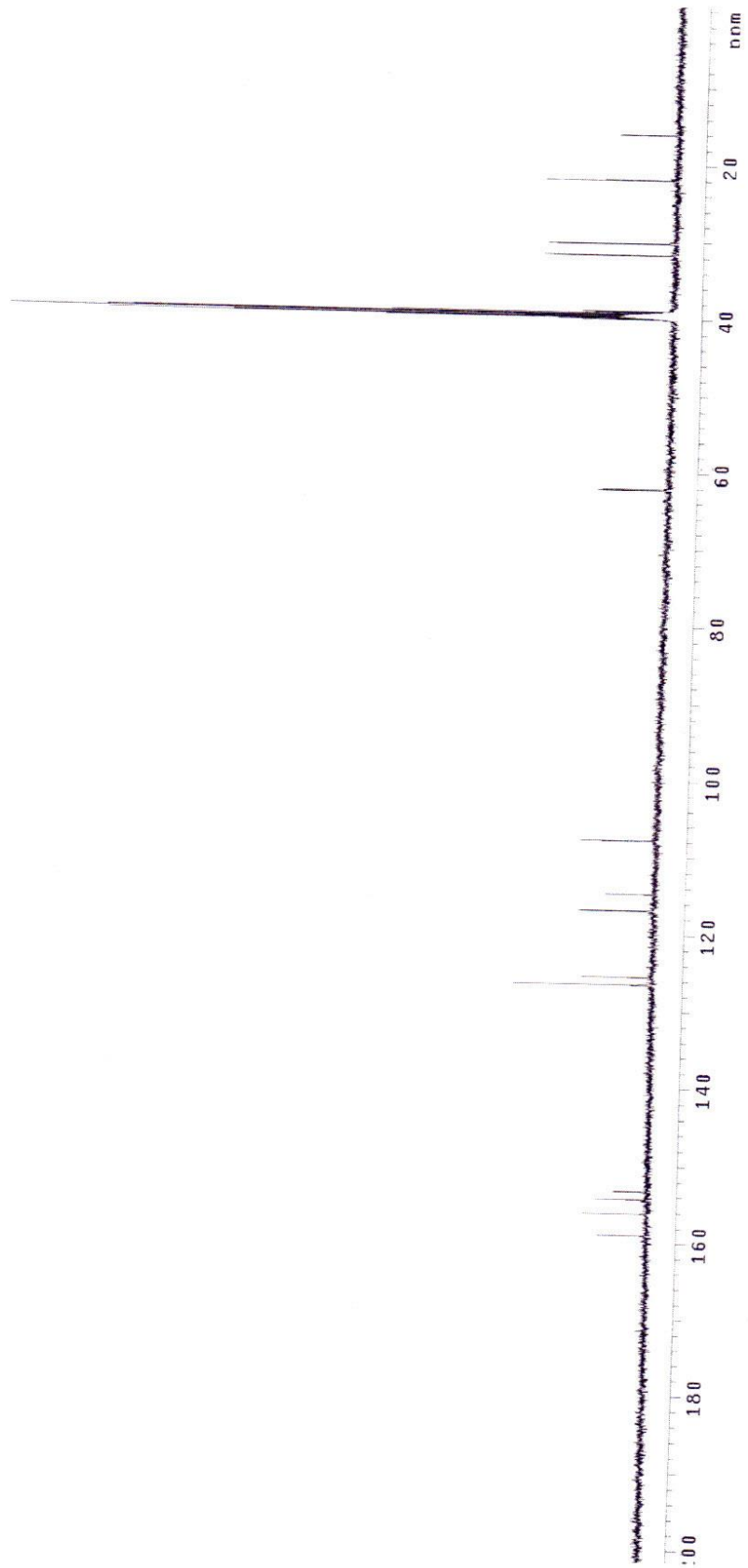
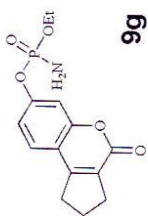
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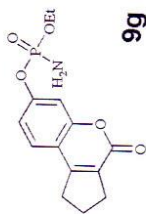
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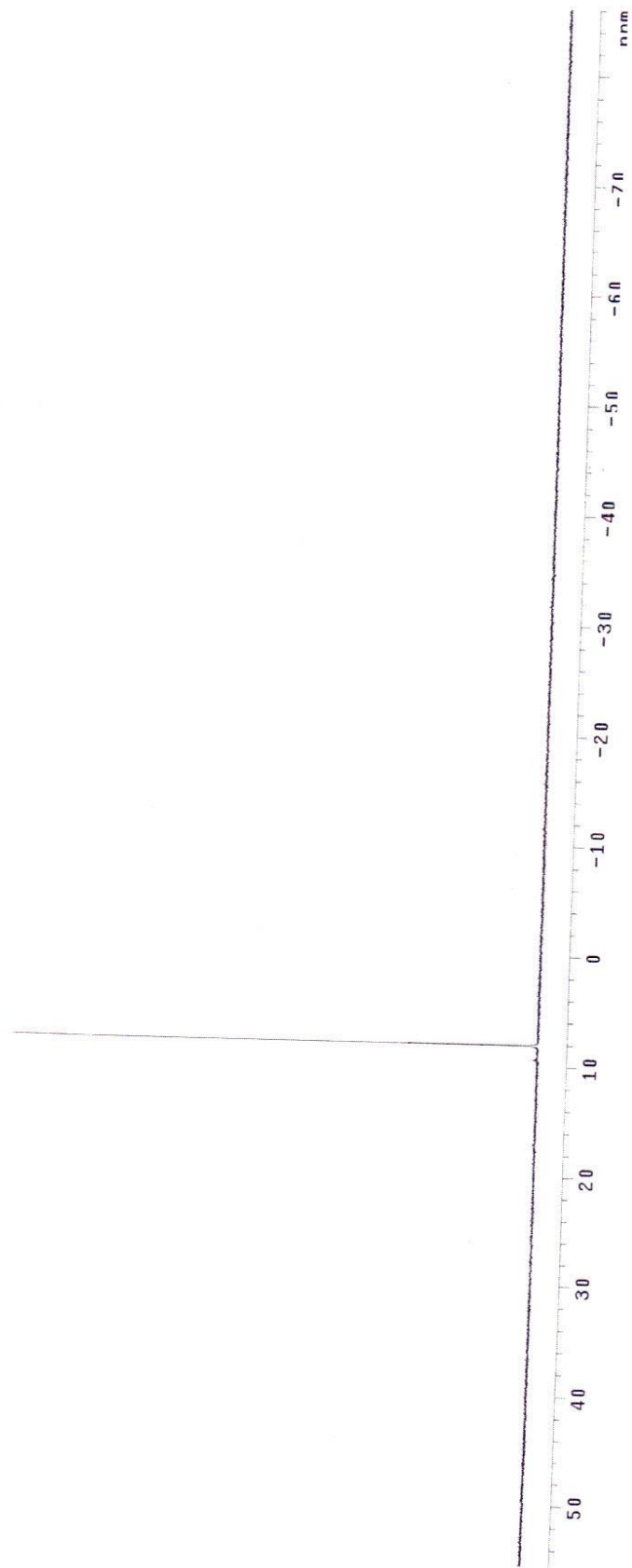
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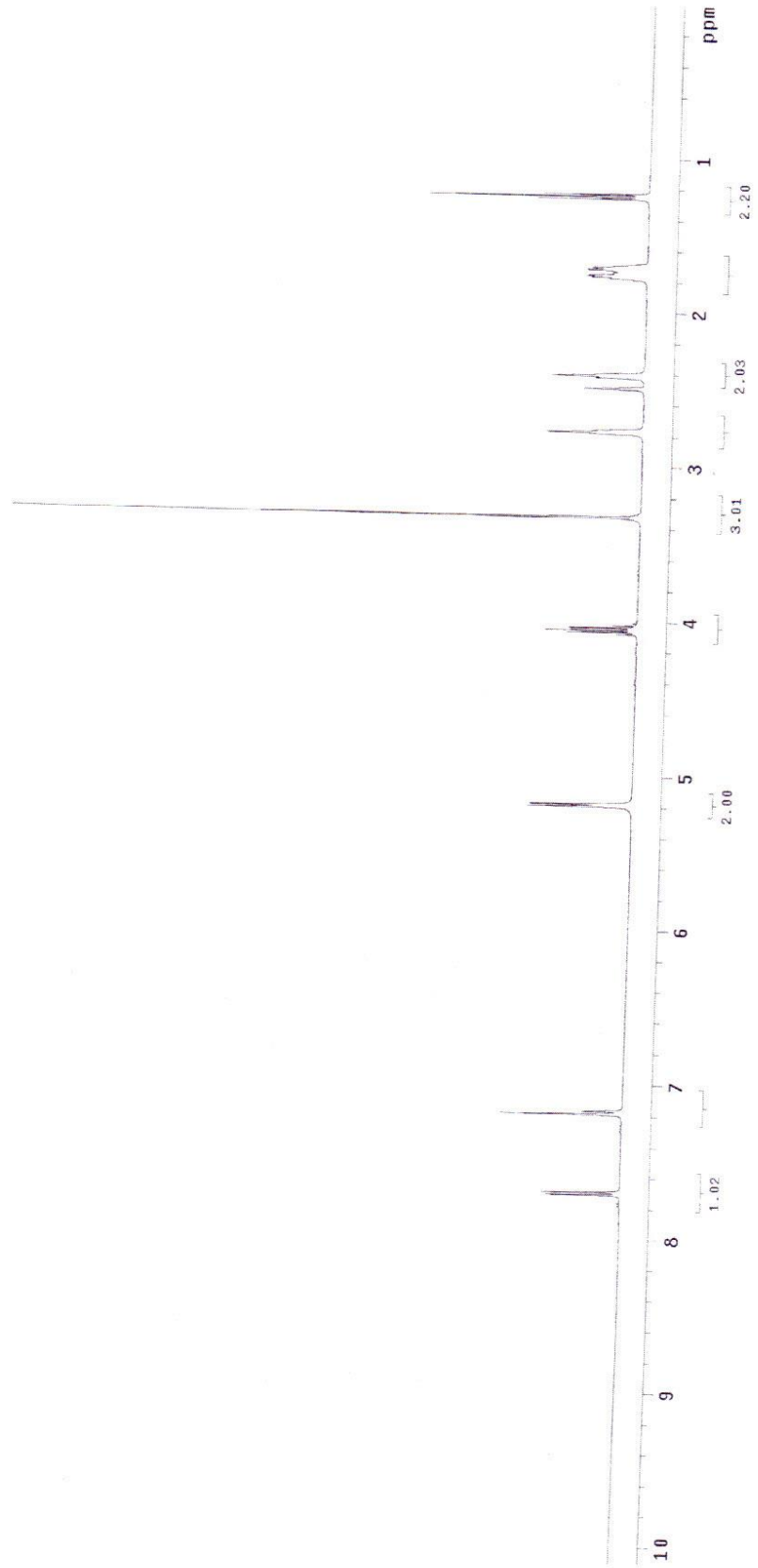
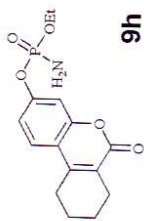
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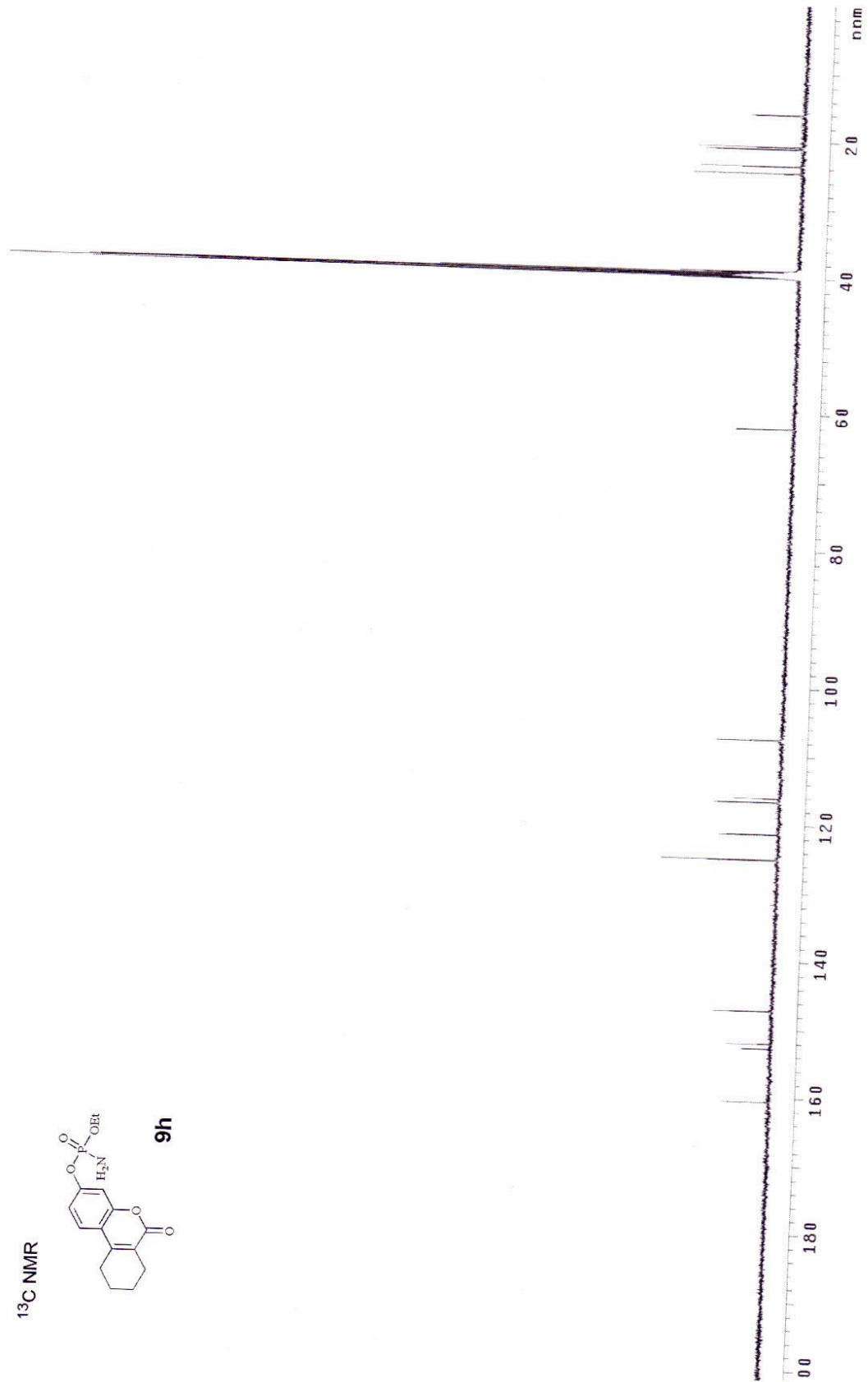
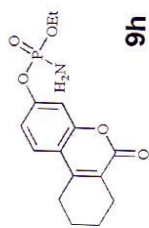
| INDEX | FREQUENCY | PPM | HEIGHT |
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| 1 | 1622.984 | 8.021 | 29.4 |



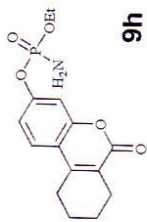
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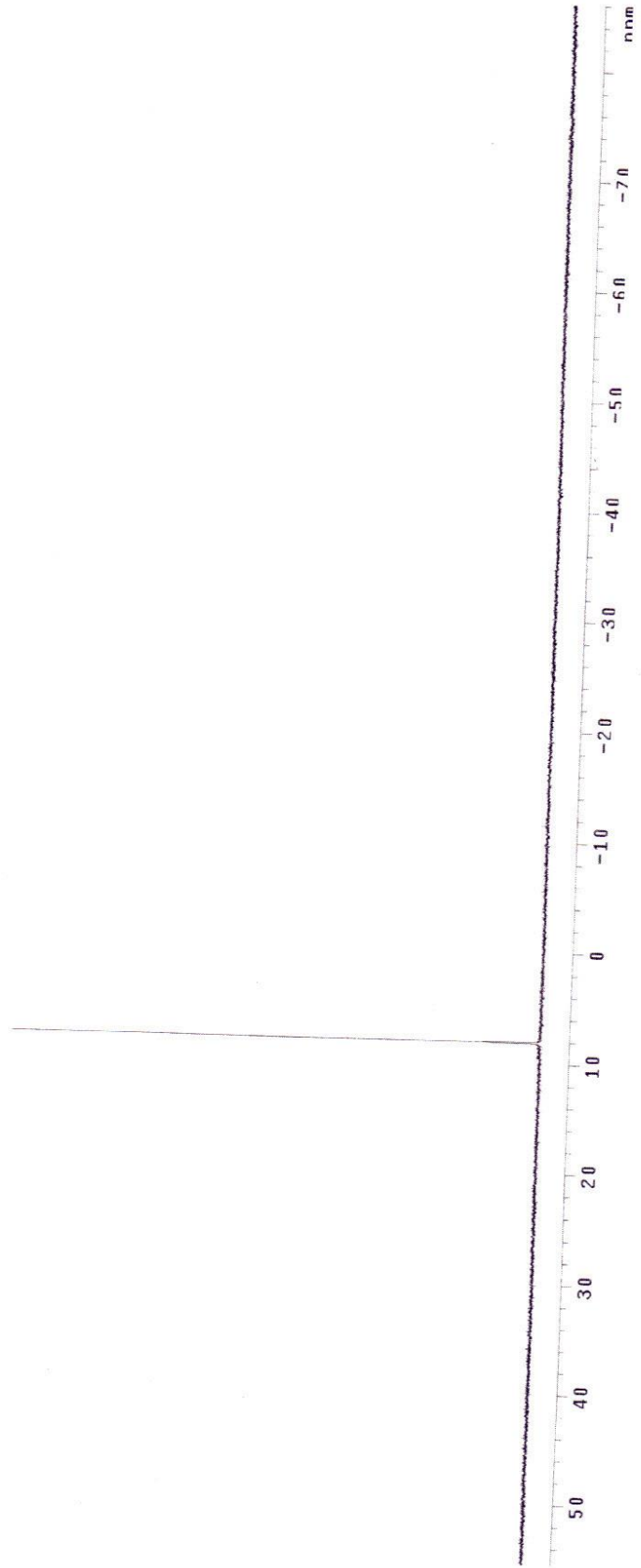
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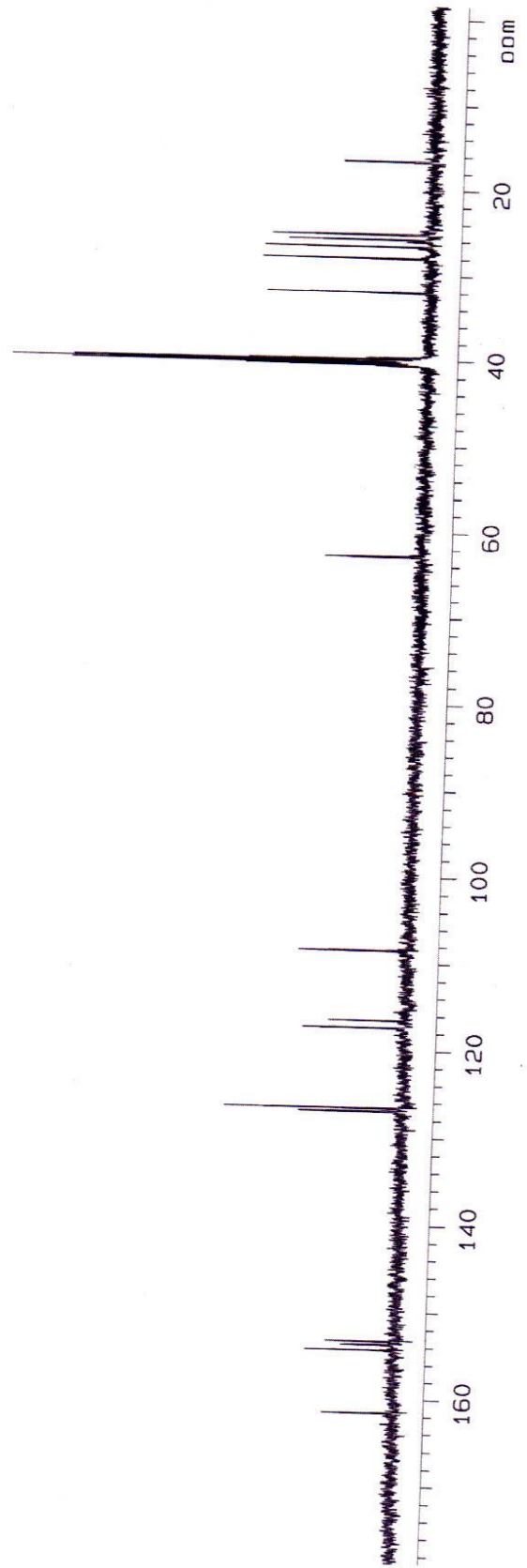
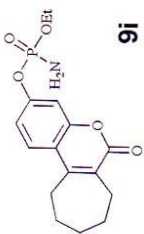
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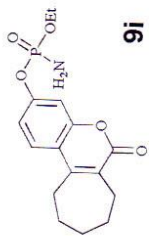
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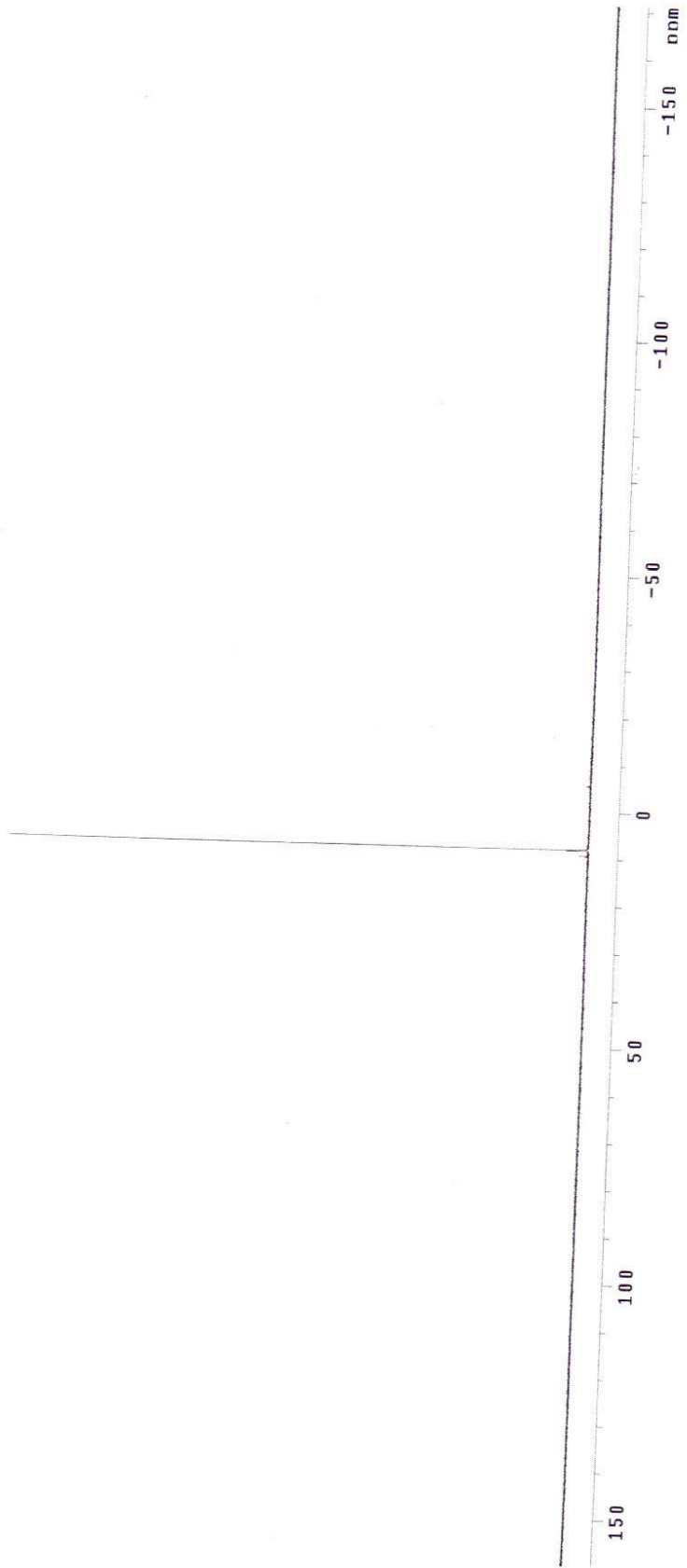
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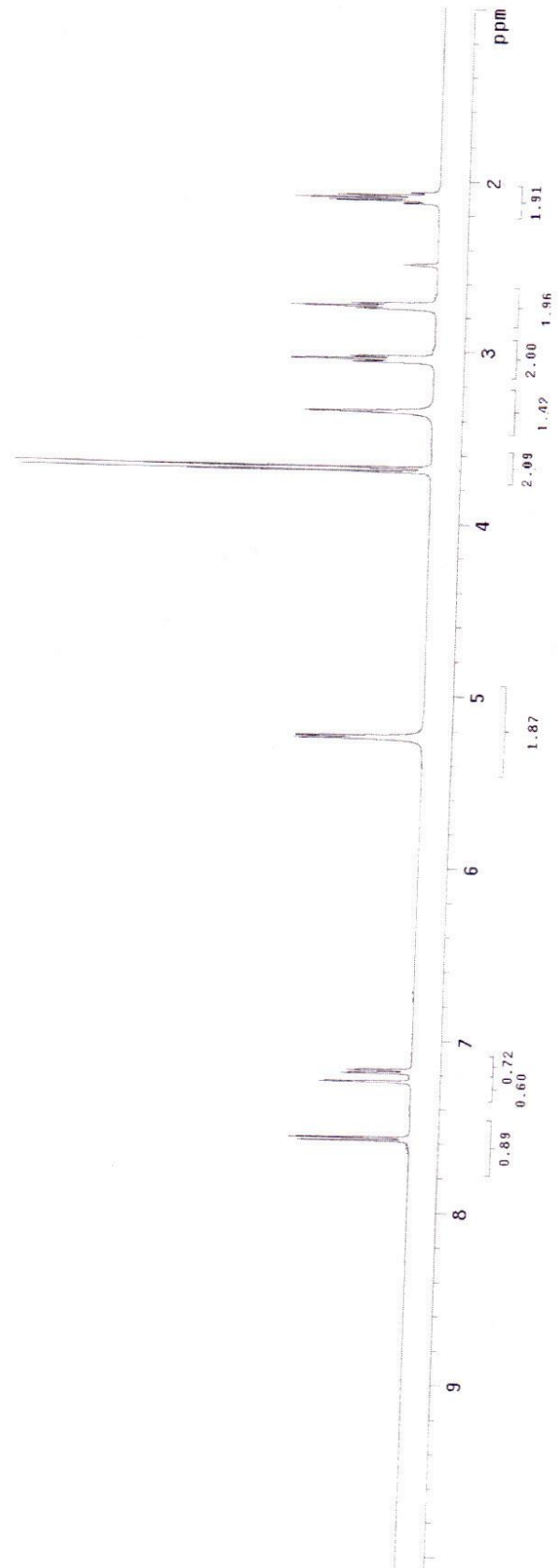
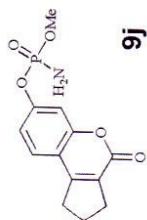
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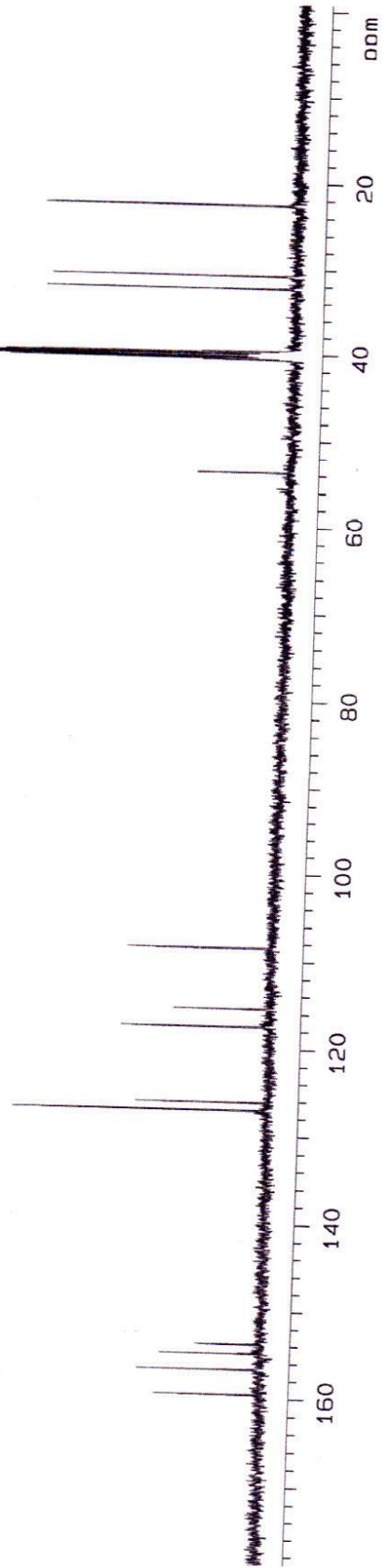
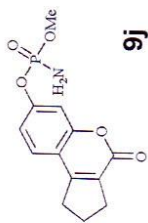
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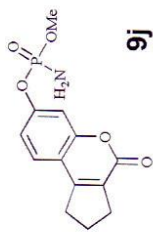
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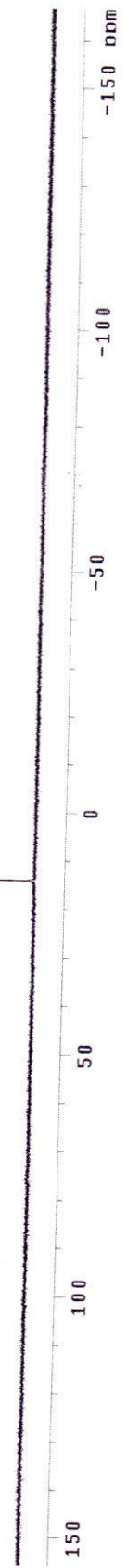
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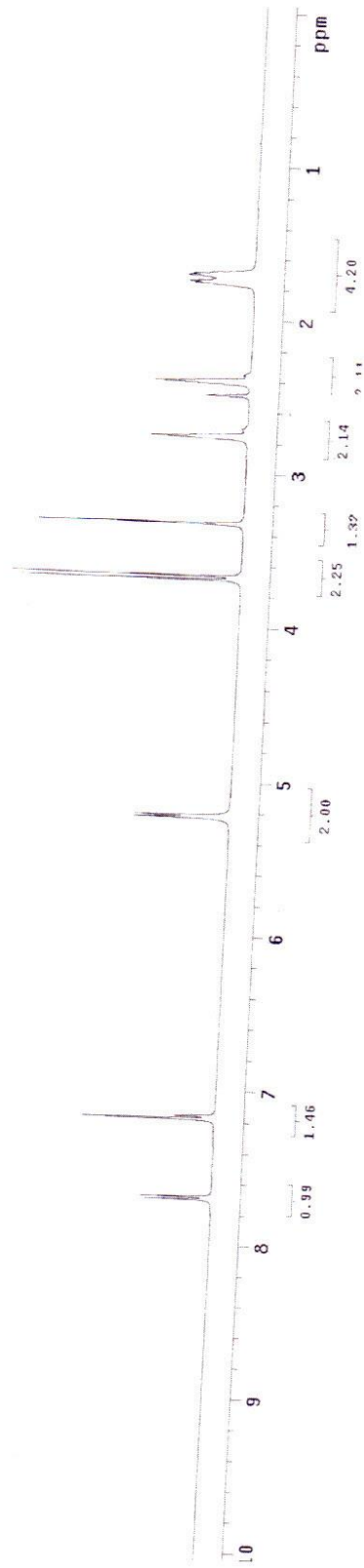
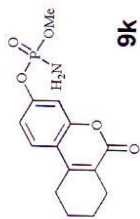
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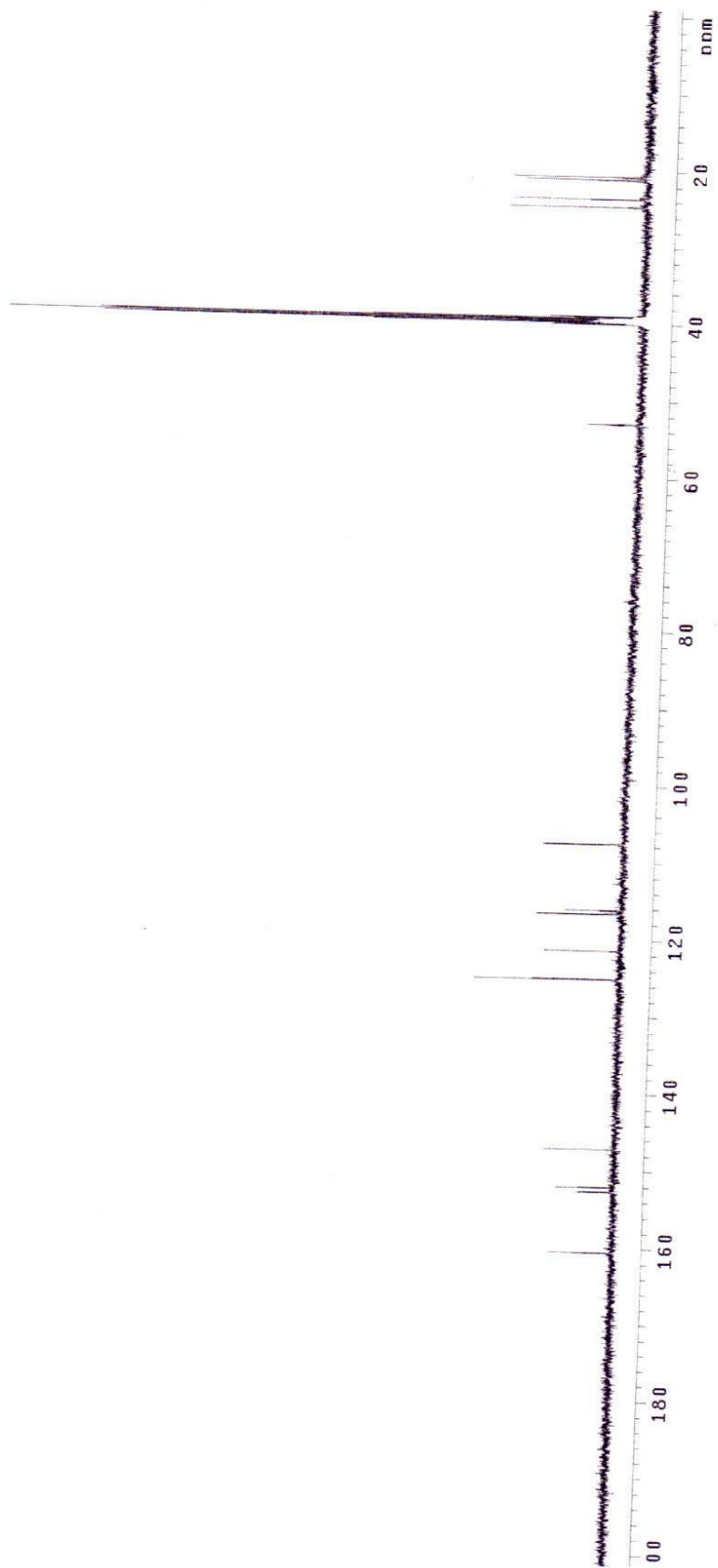
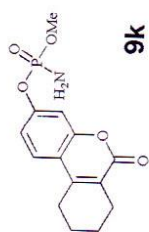
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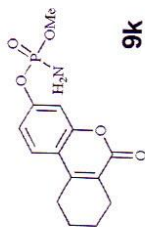
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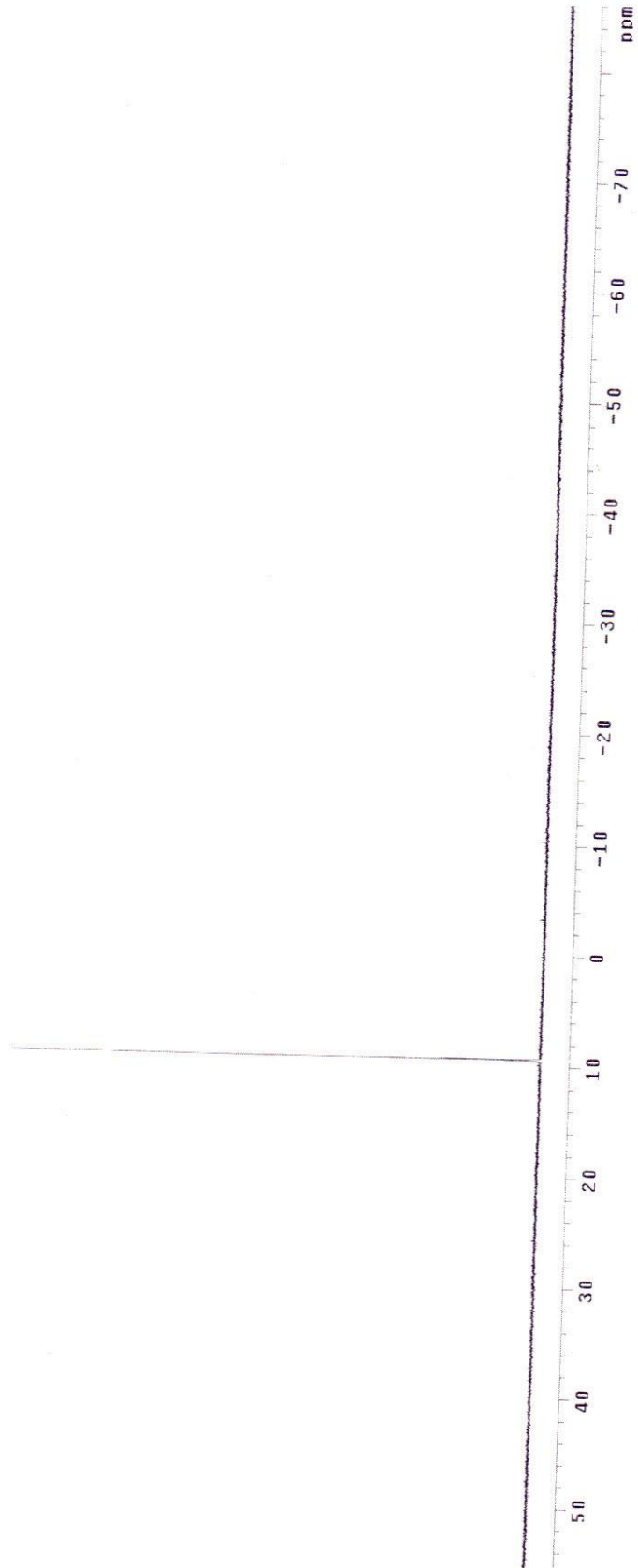
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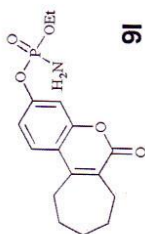
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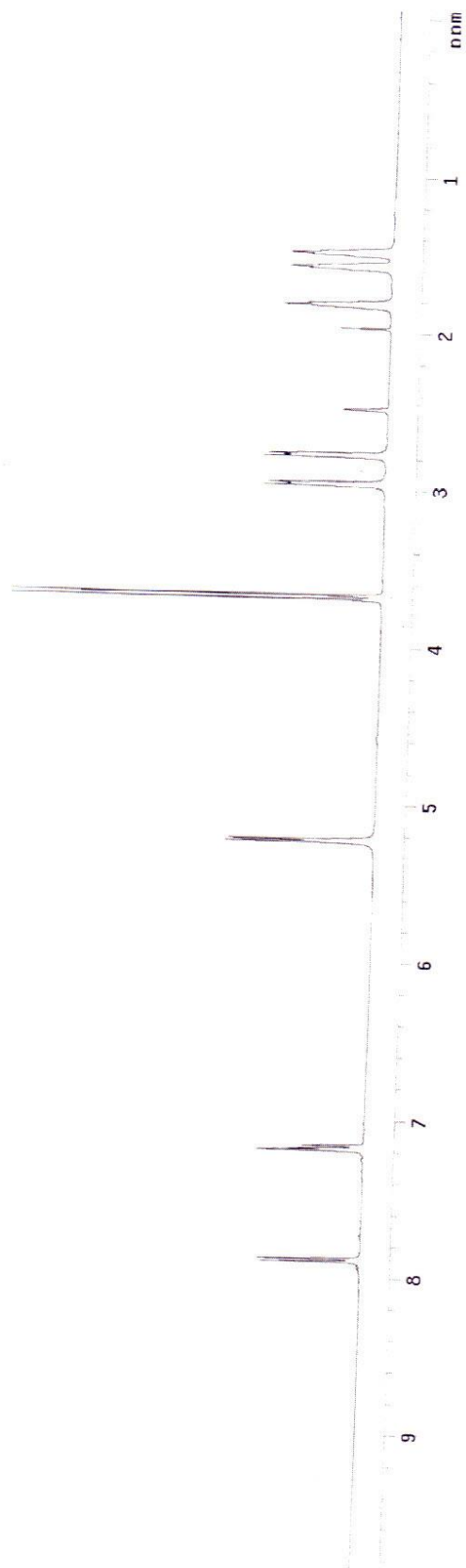
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| 1 | 1890.840 | 9.345 | 30.2 |



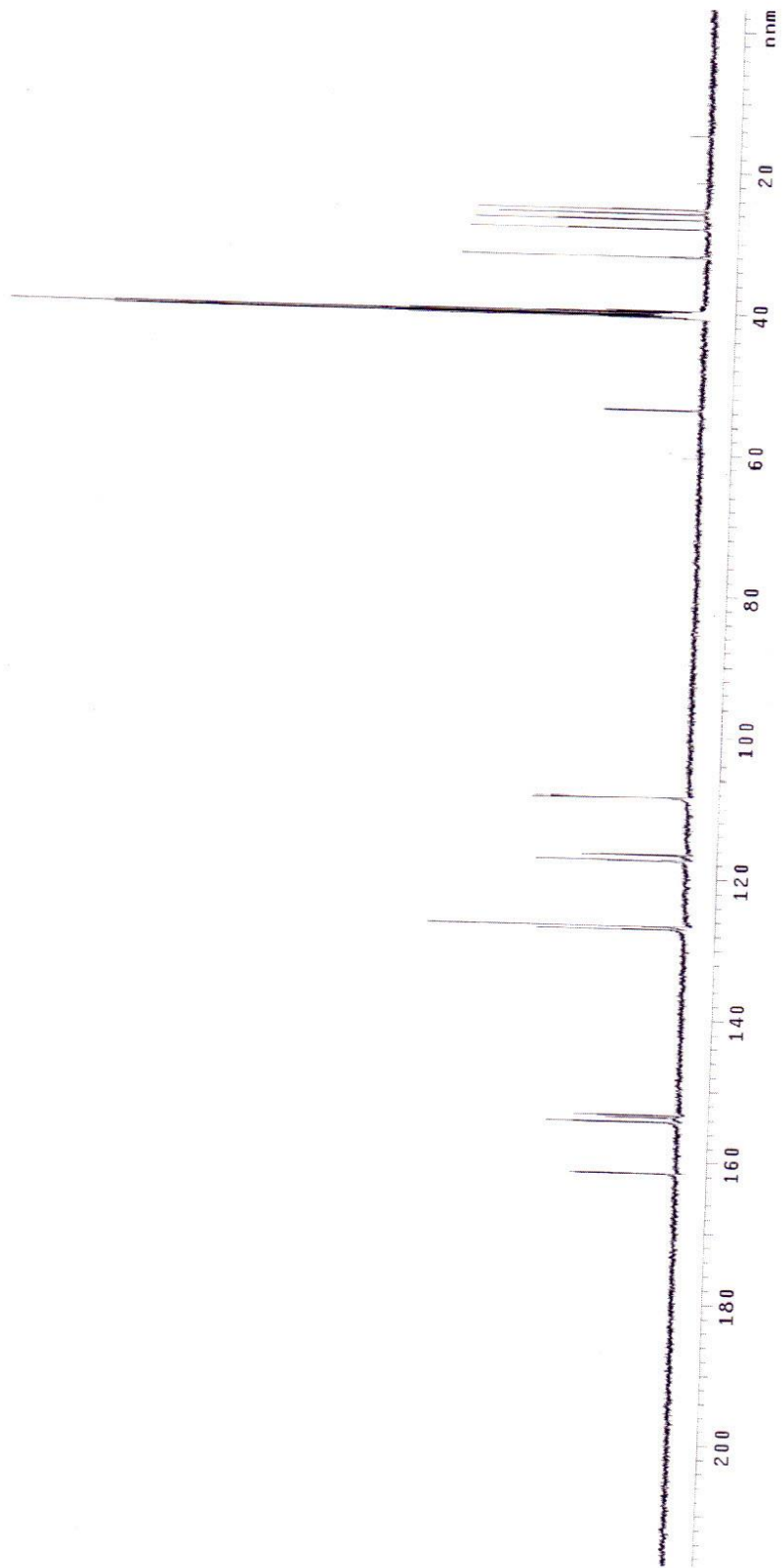
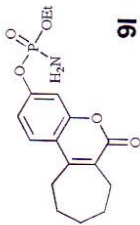
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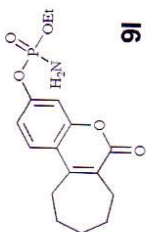
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¹³C NMR

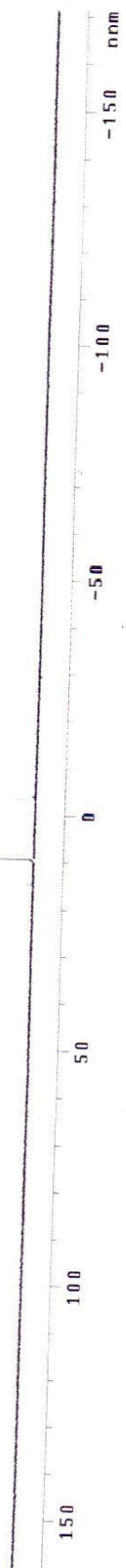


³¹P NMR

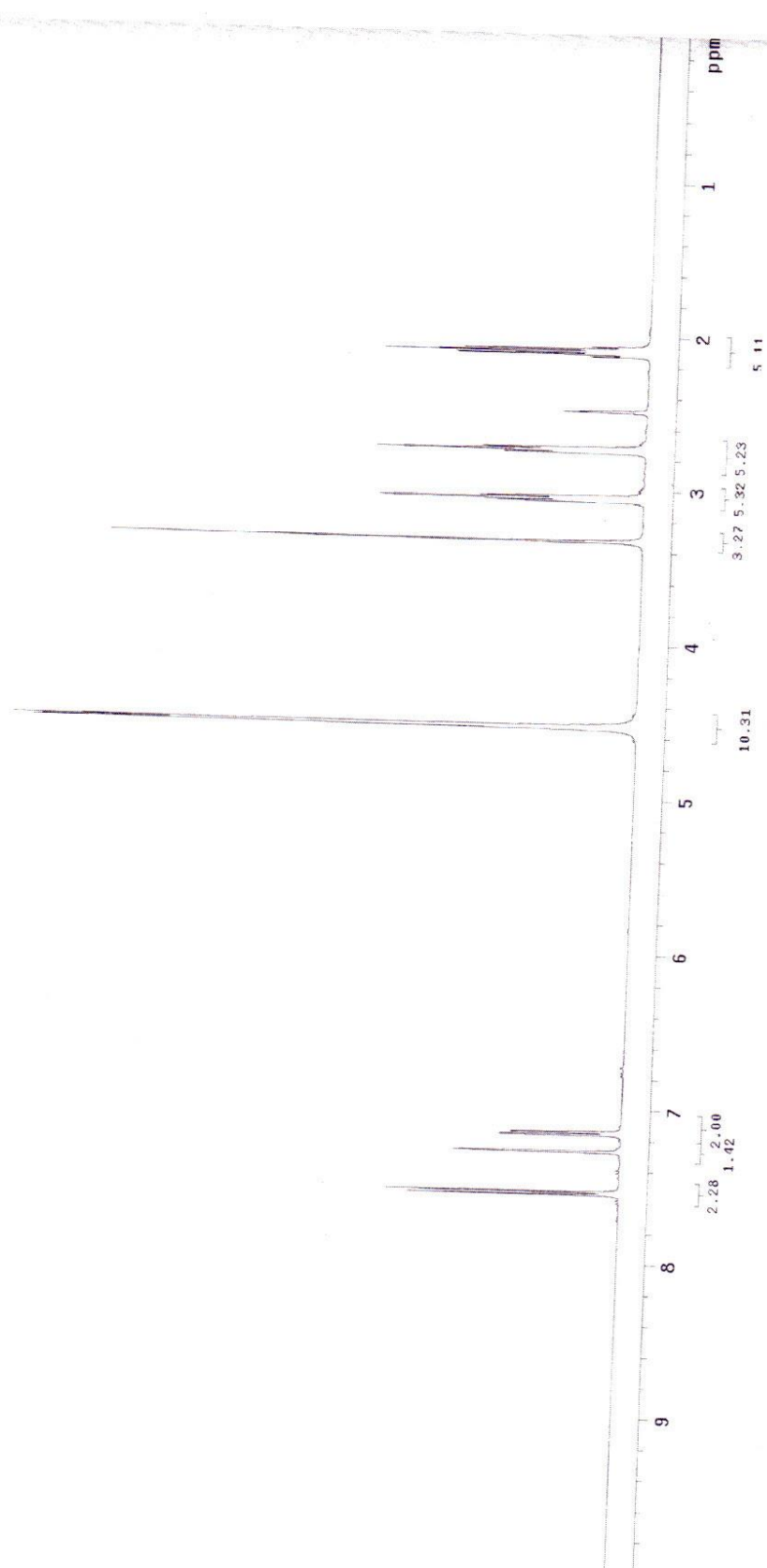
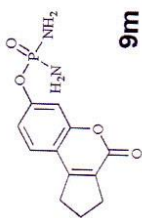


| INDEX | FREQUENCY | PPM | HEIGHT |
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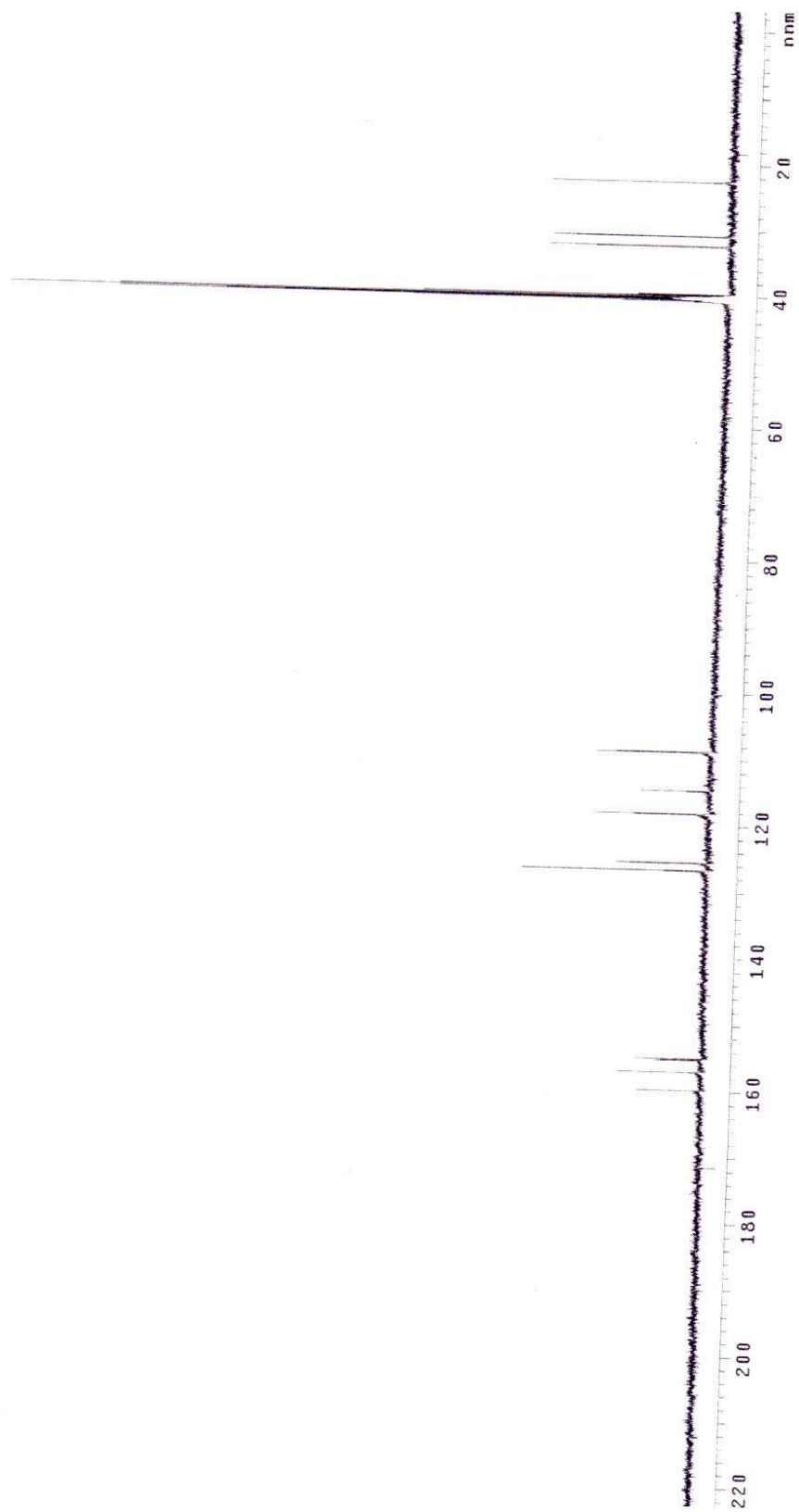
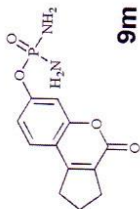
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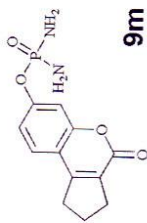
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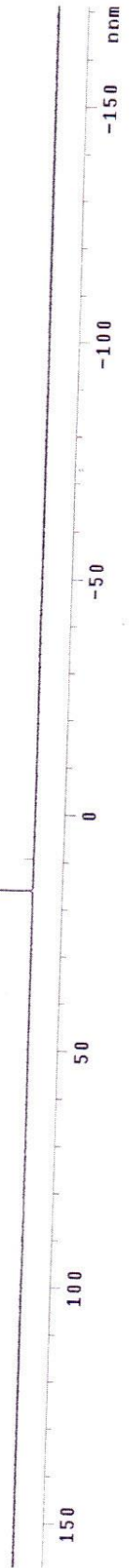
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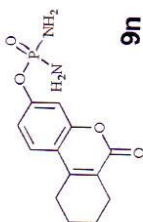
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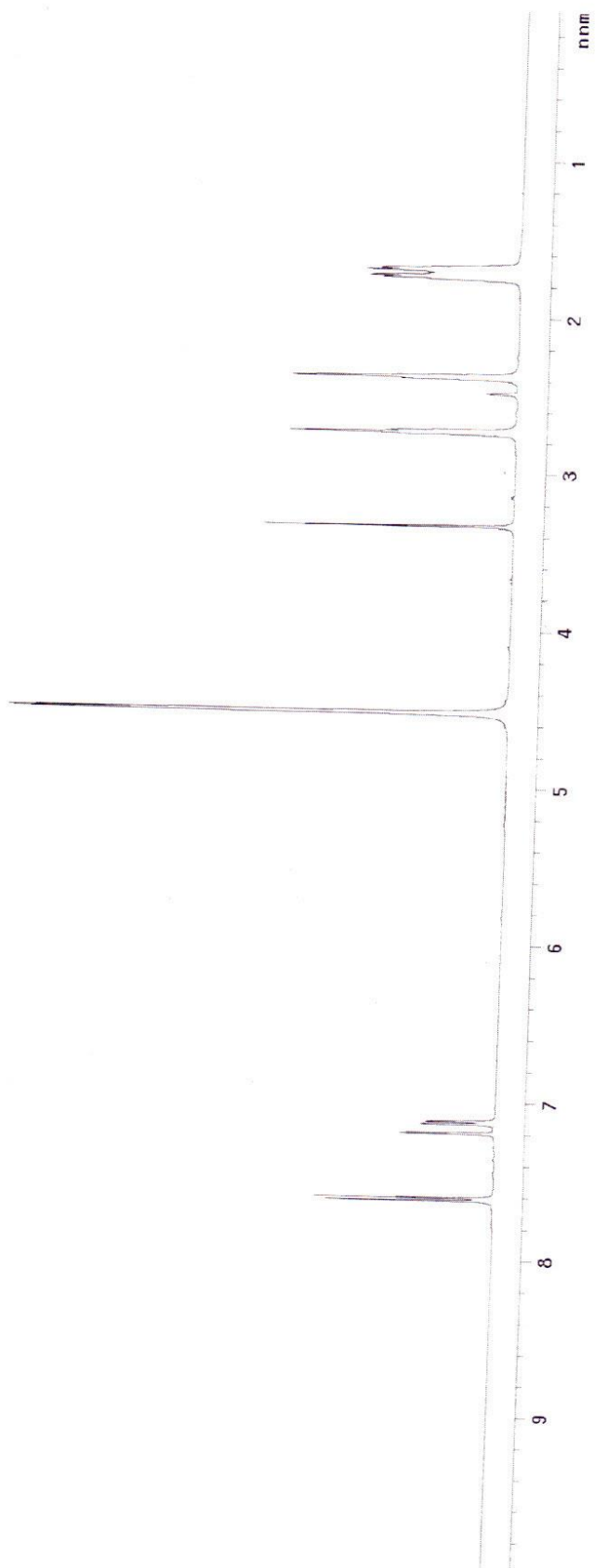
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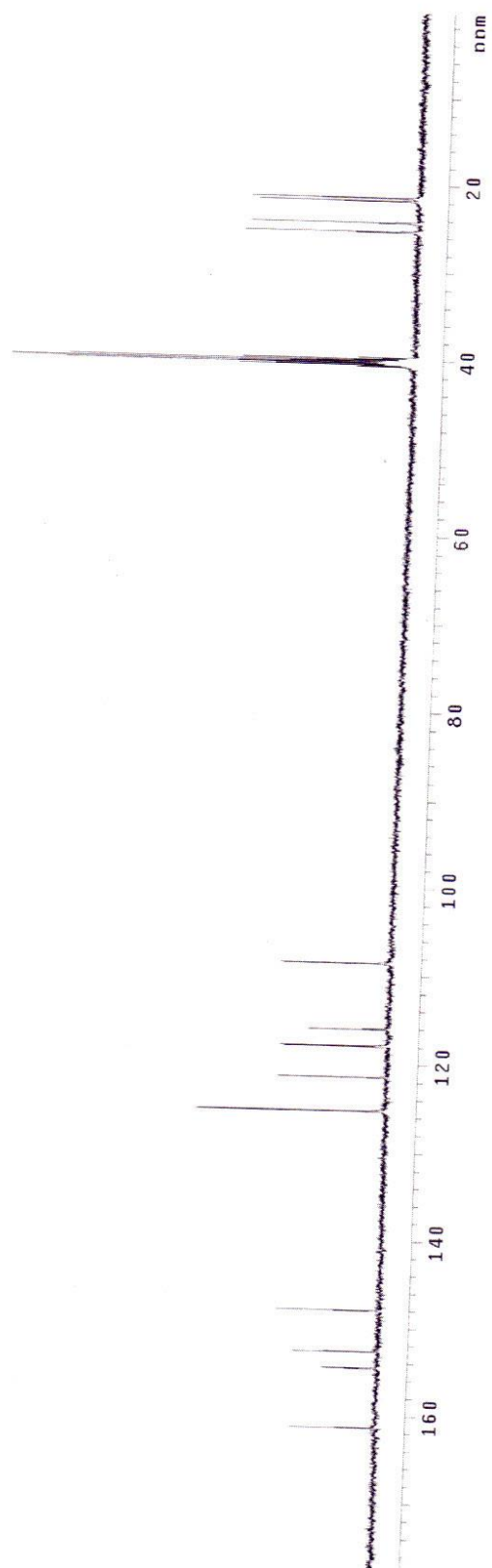
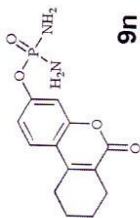
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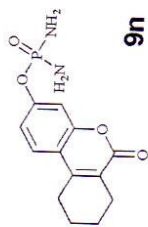
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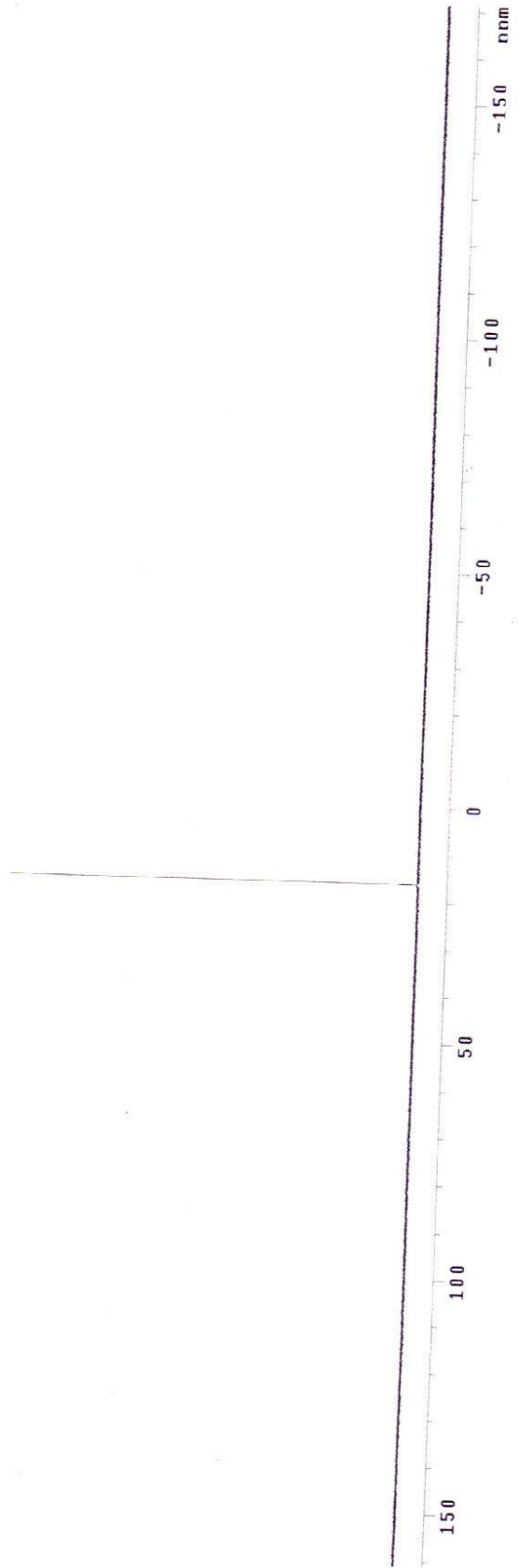
¹³C NMR



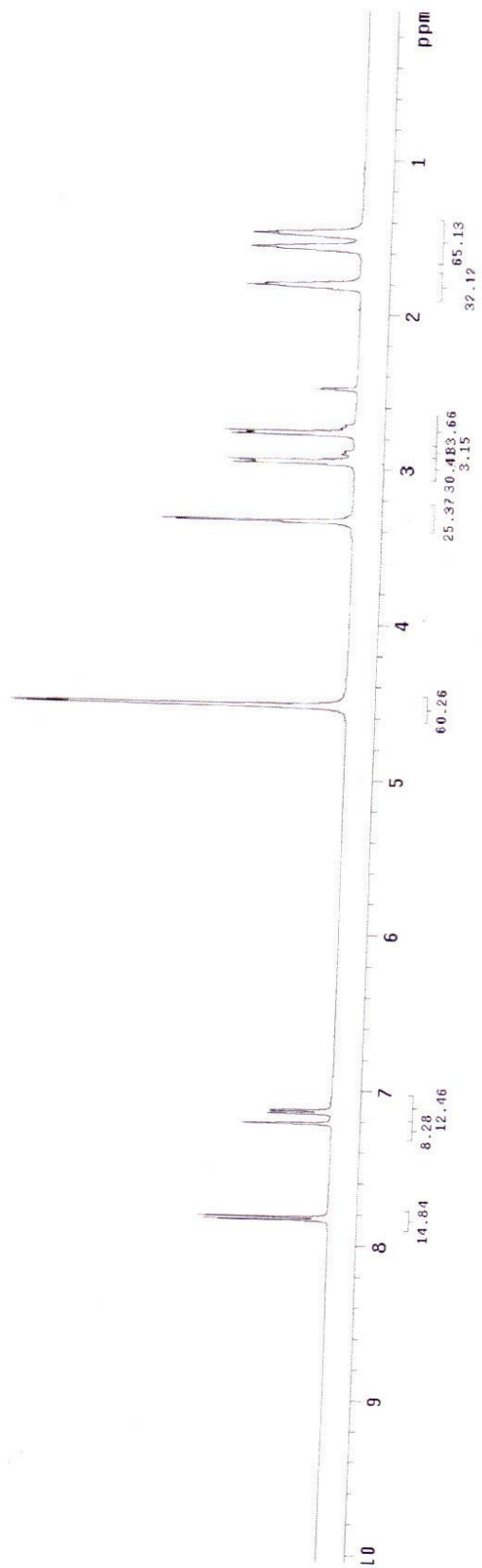
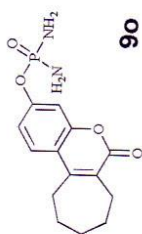
³¹P NMR



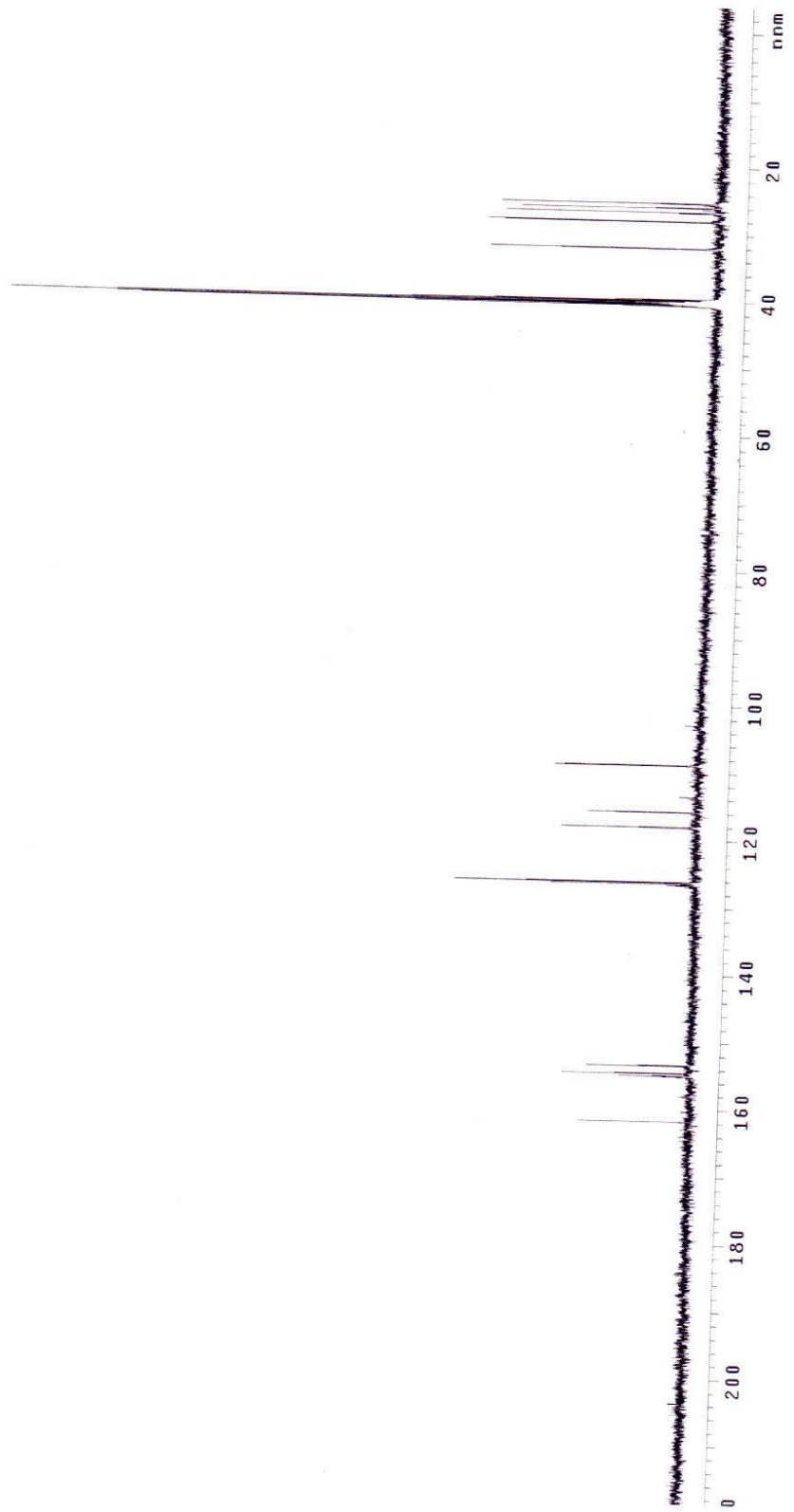
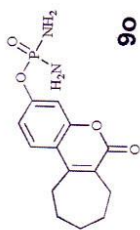
| INDEX | FREQUENCY | PPM | HEIGHT |
|-------|-----------|--------|--------|
| 1 | 3234.789 | 15.988 | 47.1 |



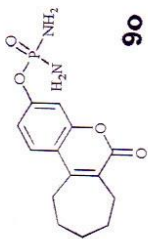
¹H NMR



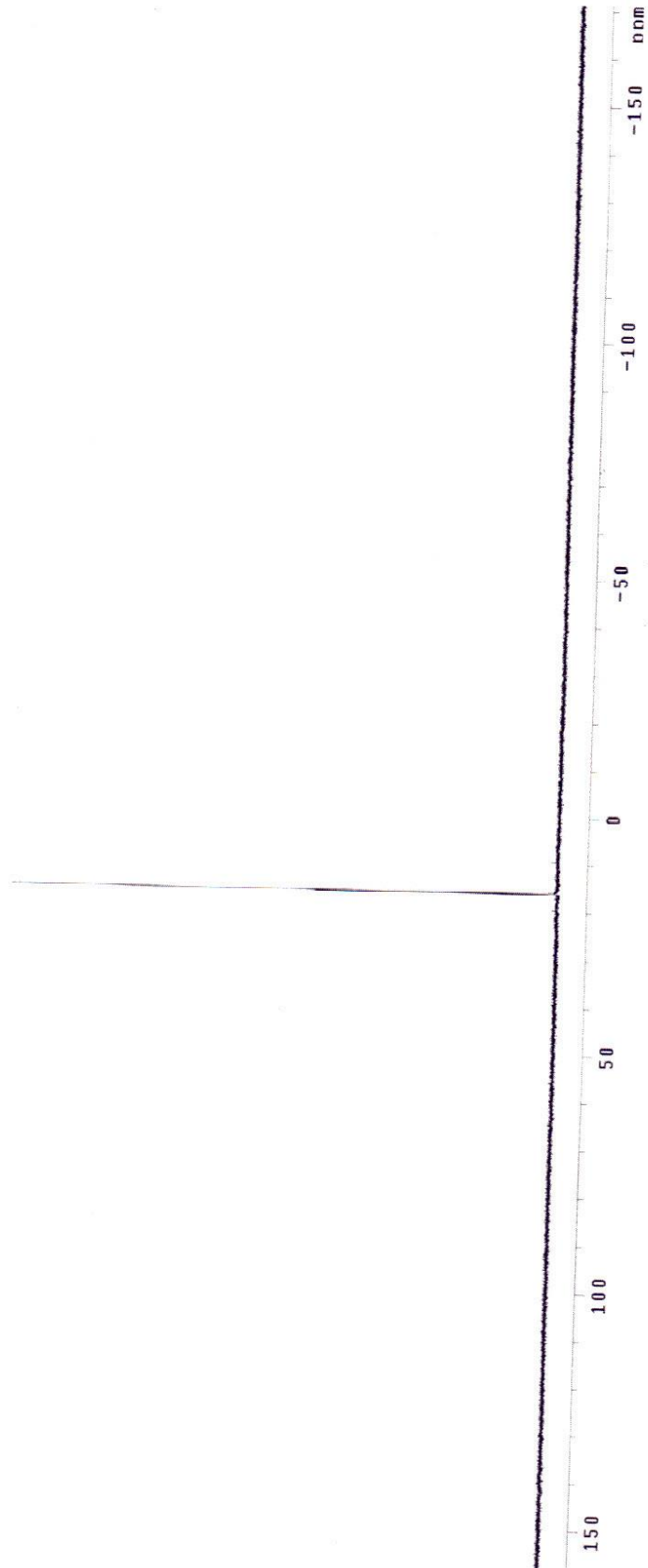
¹³C NMR



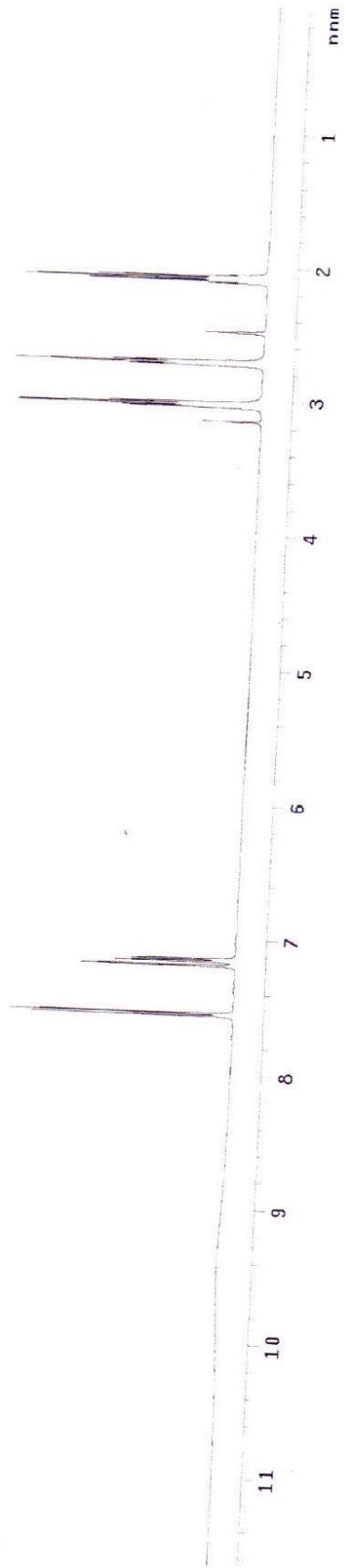
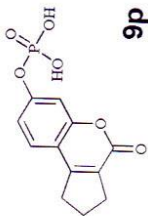
³¹P NMR



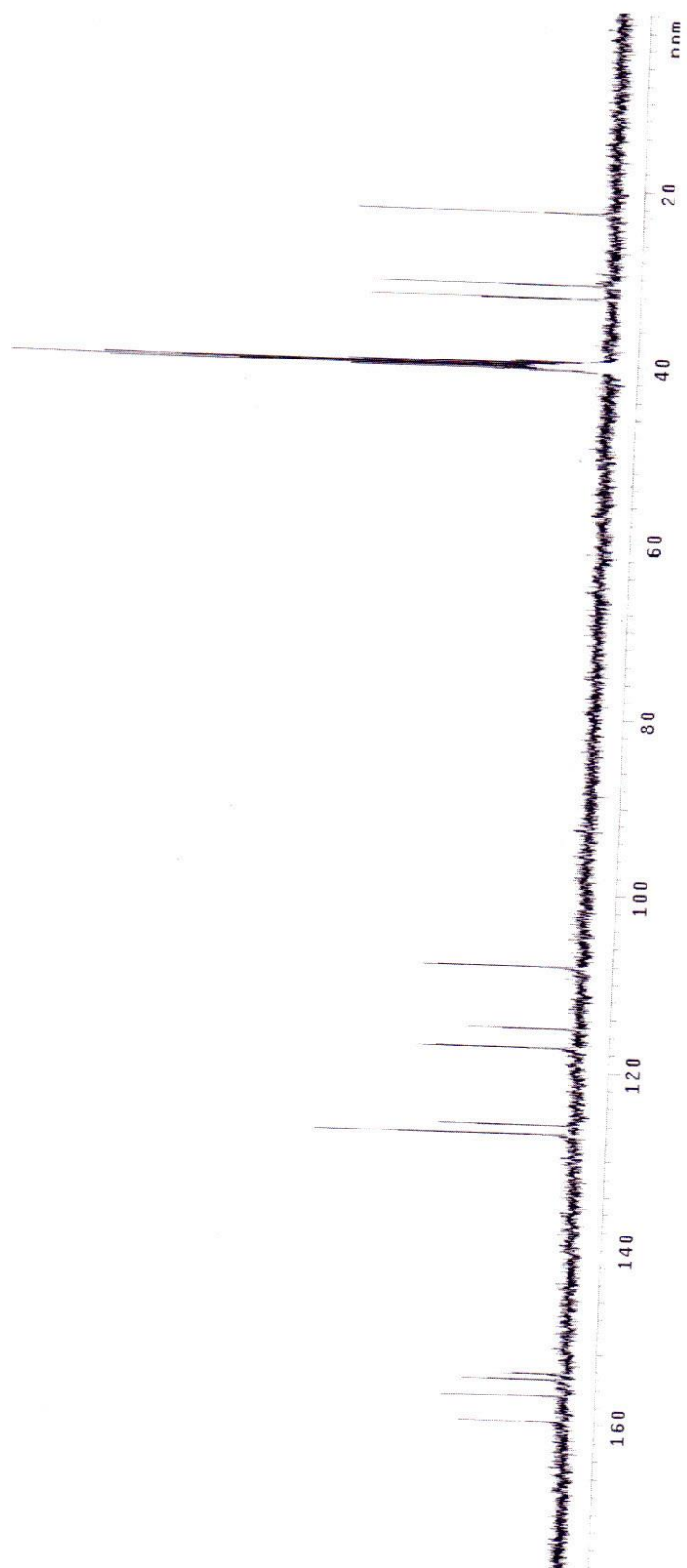
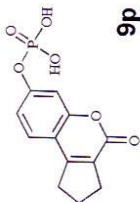
| INDEX | FREQUENCY | PPM | HEIGHT |
|-------|-----------|--------|--------|
| 1 | 3241.027 | 16.018 | 43.7 |



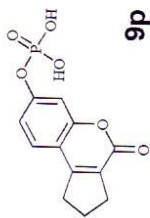
¹H NMR



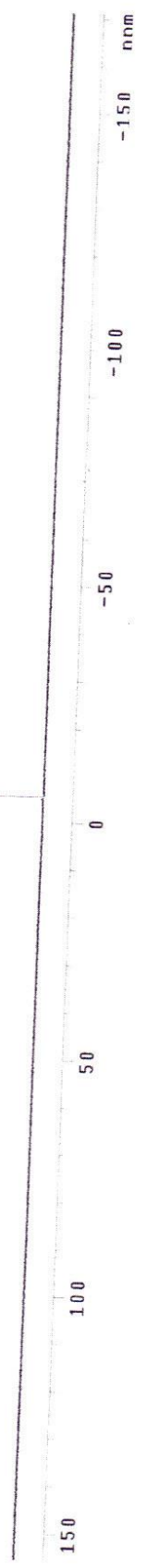
¹³C NMR



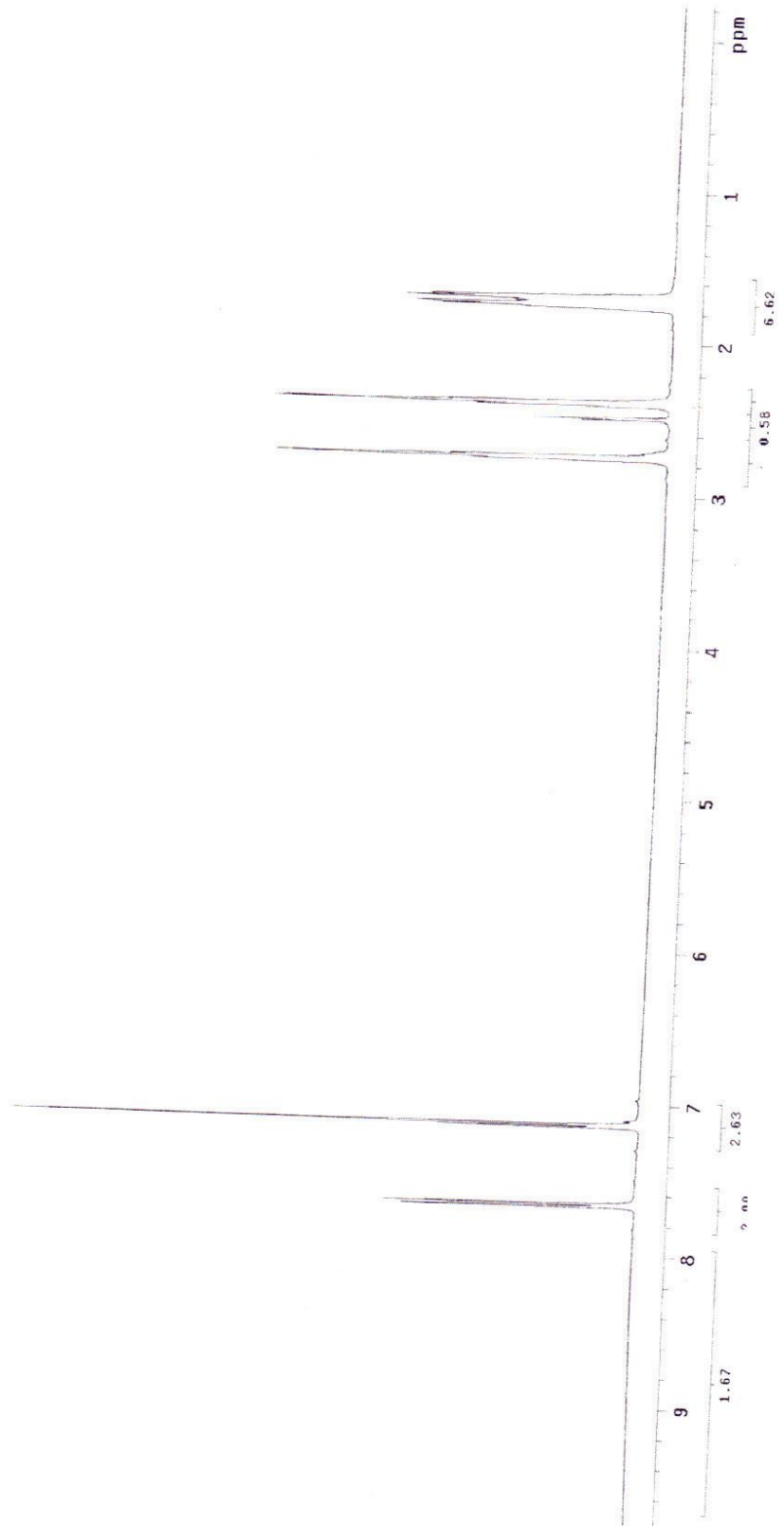
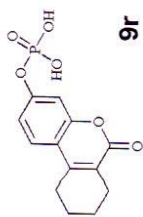
³¹P NMR



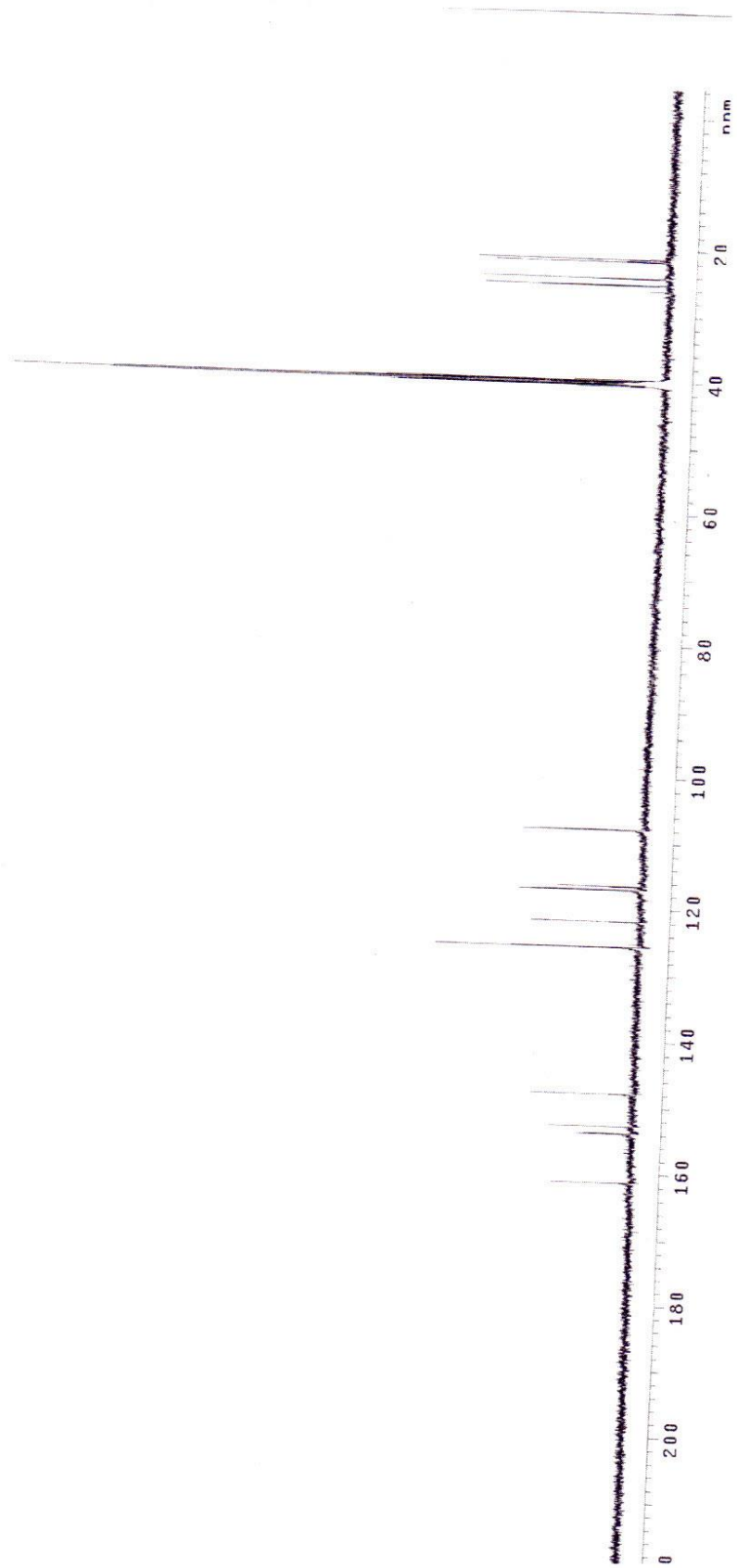
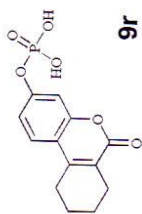
| INDEX | FREQUENCY | PPM | HEIGHT |
|-------|-----------|--------|--------|
| 1 | -1101.983 | -5.447 | 55.3 |



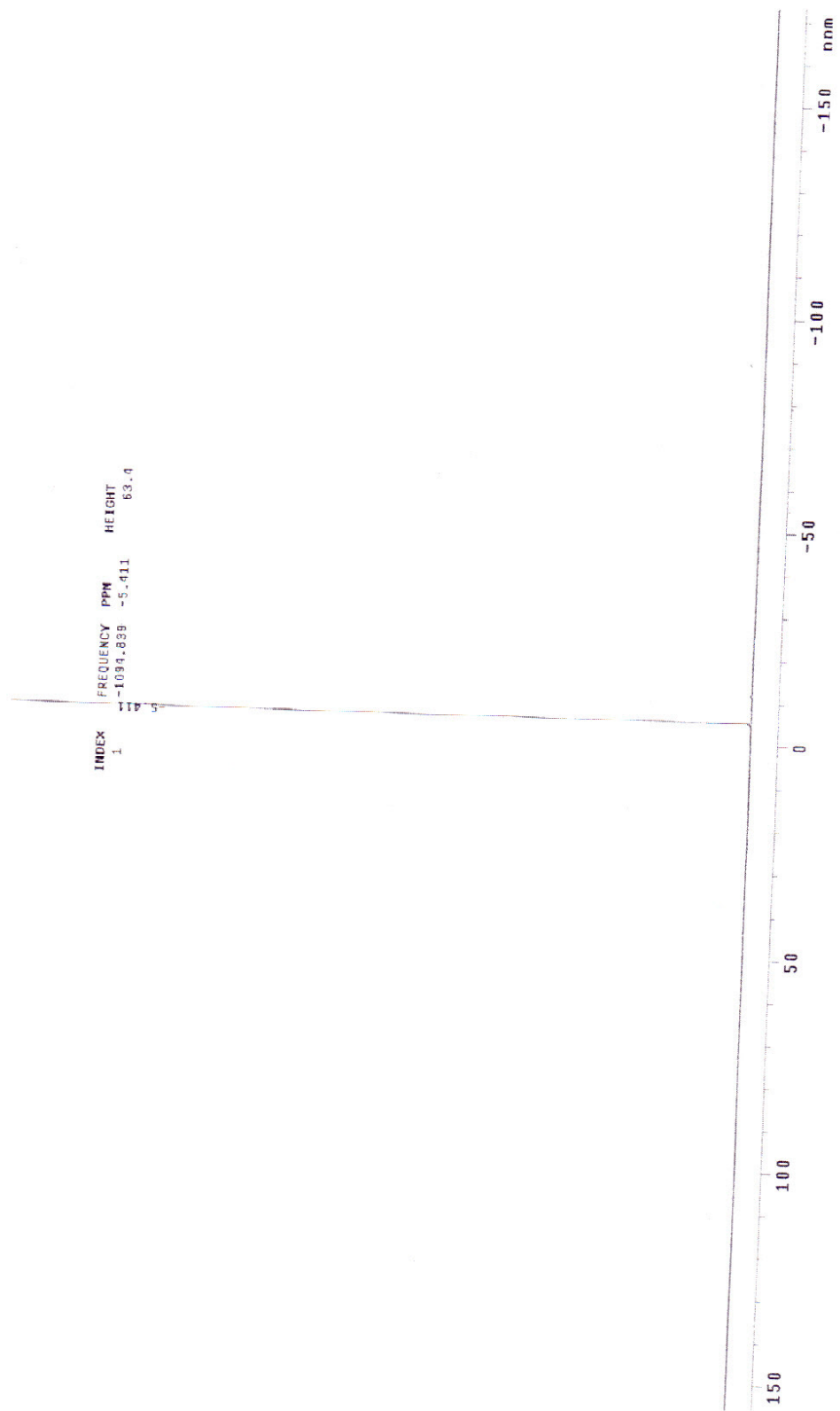
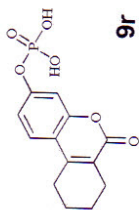
¹H NMR



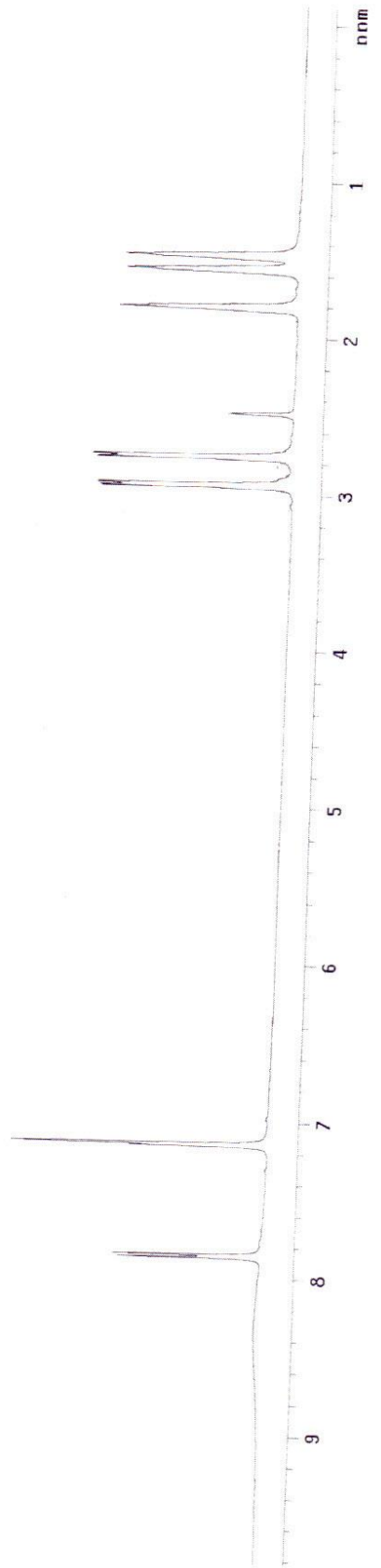
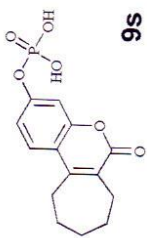
¹³C NMR



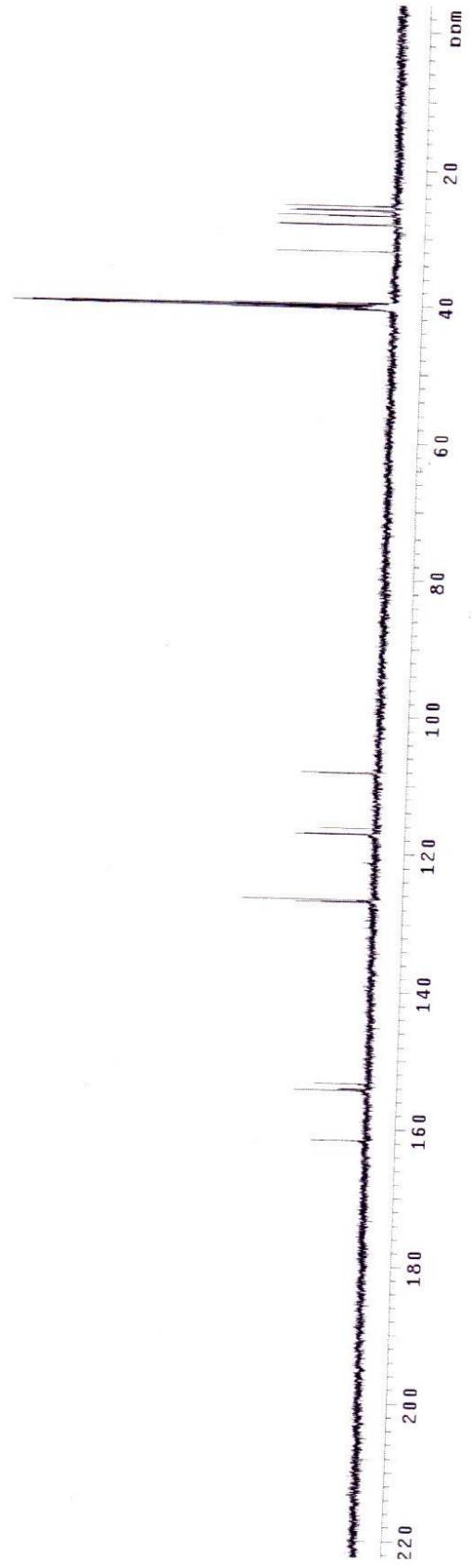
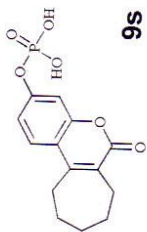
³¹P NMR



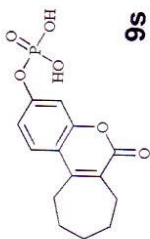
¹H NMR



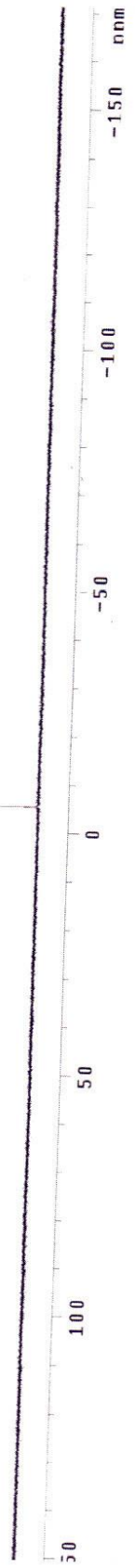
¹³C NMR



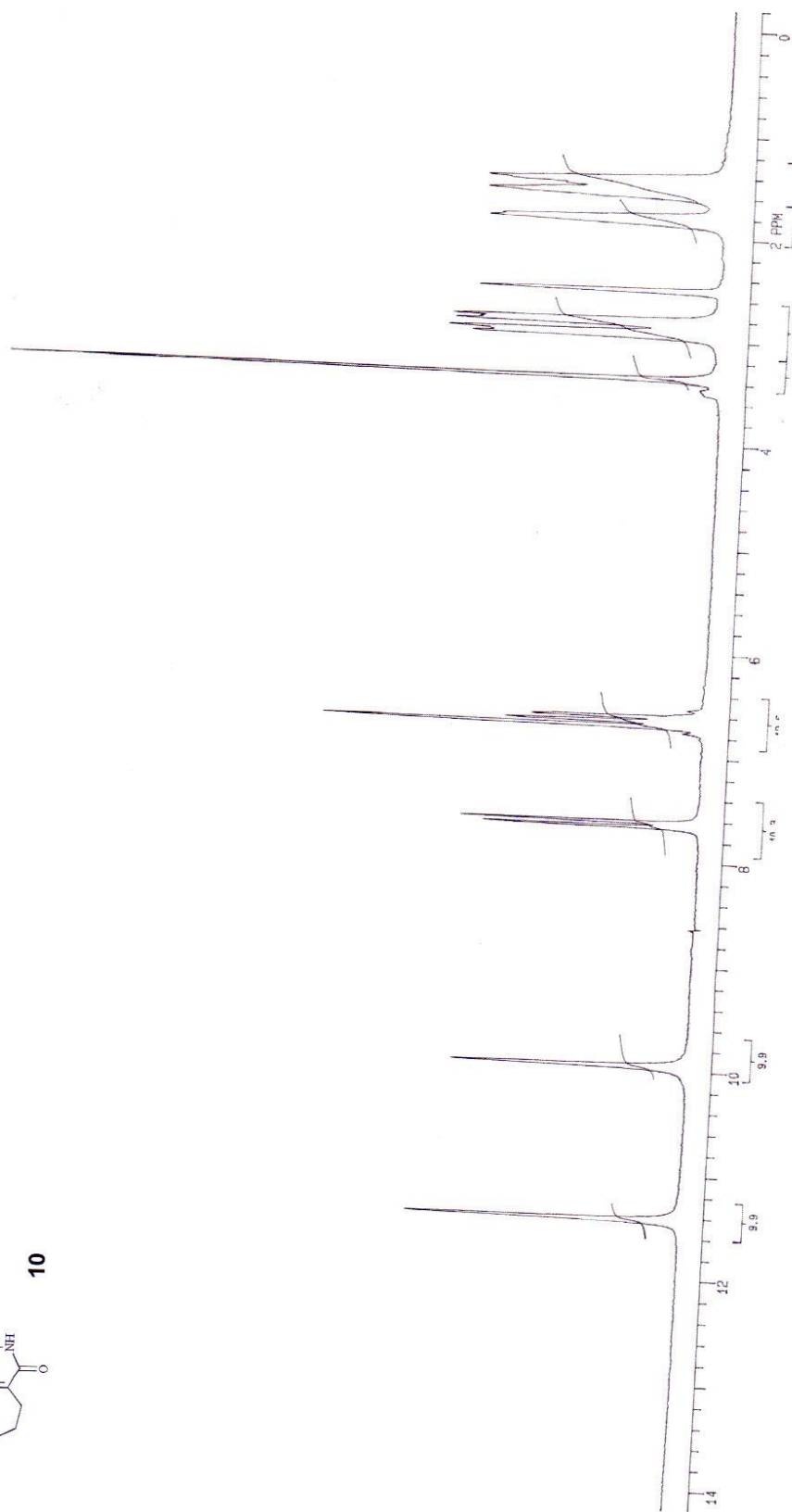
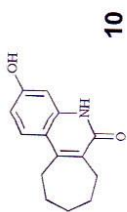
³¹P NMR



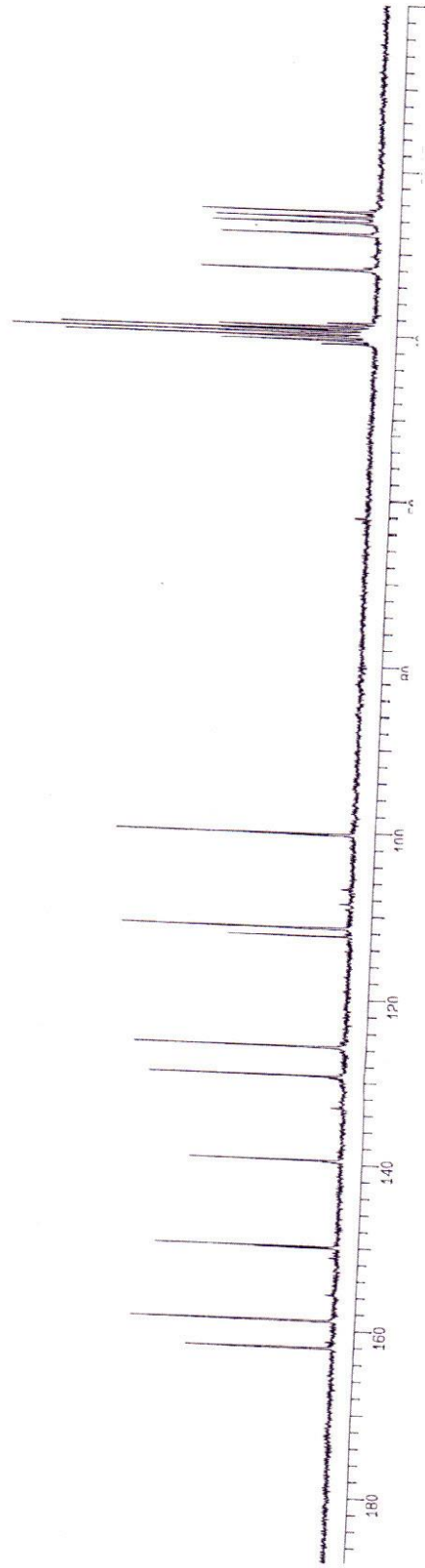
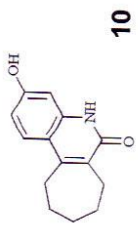
| INDEX | FREQUENCY | PPM | HEIGHT |
|-------|-----------|--------|--------|
| 1 | -1098.971 | -5.432 | 69.2 |



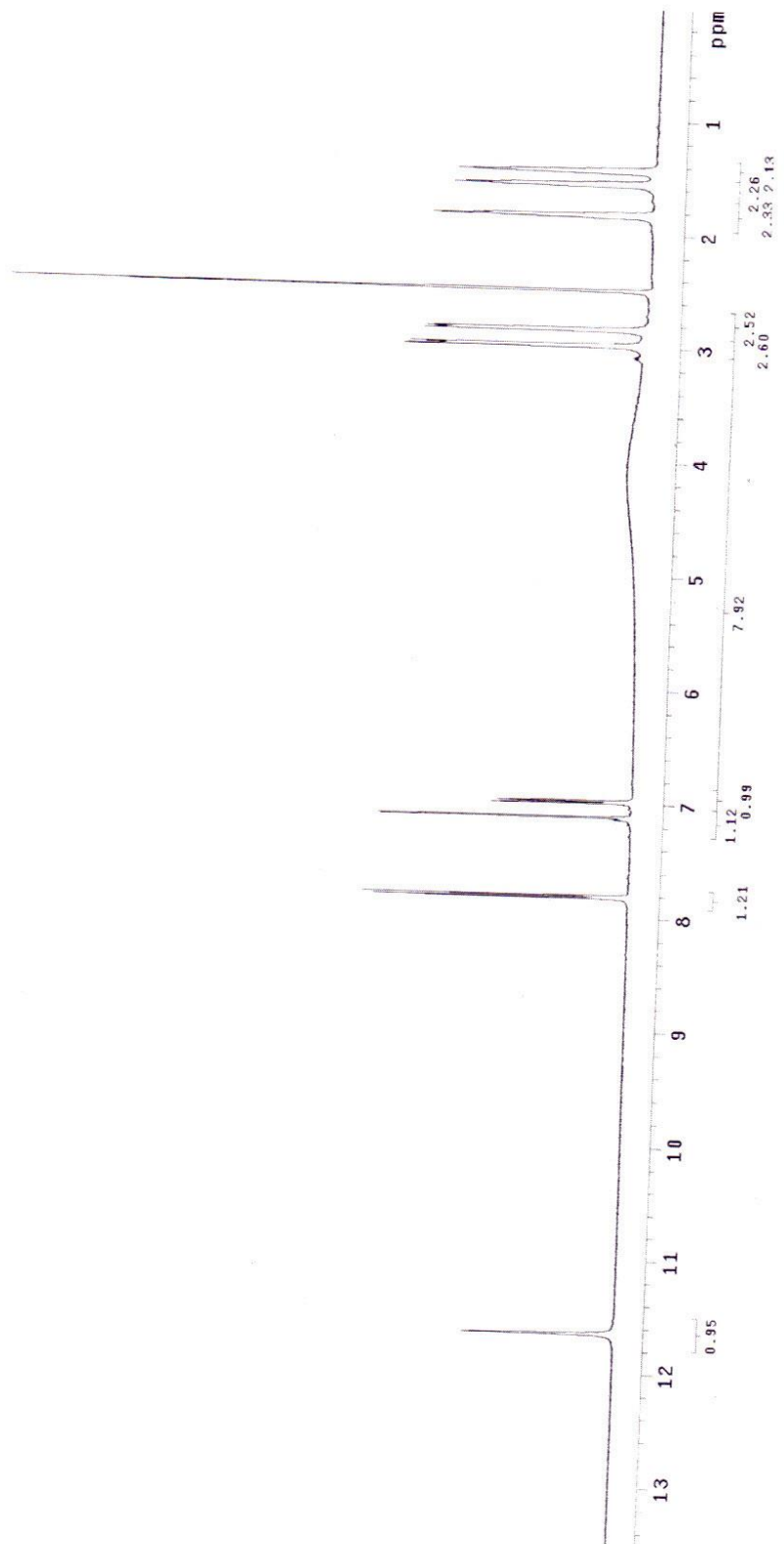
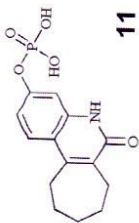
¹H NMR



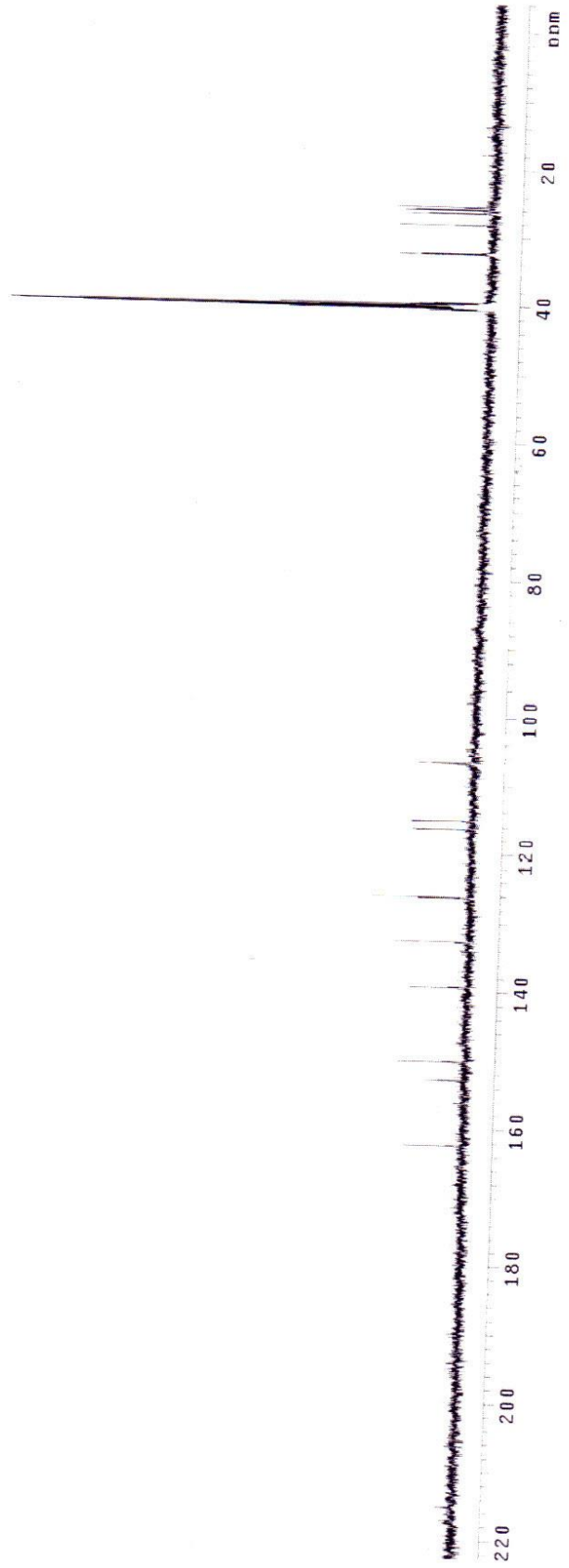
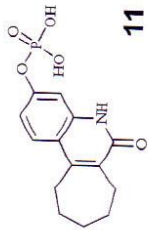
¹³C NMR



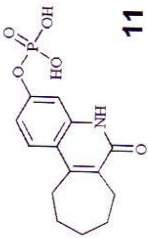
¹H NMR



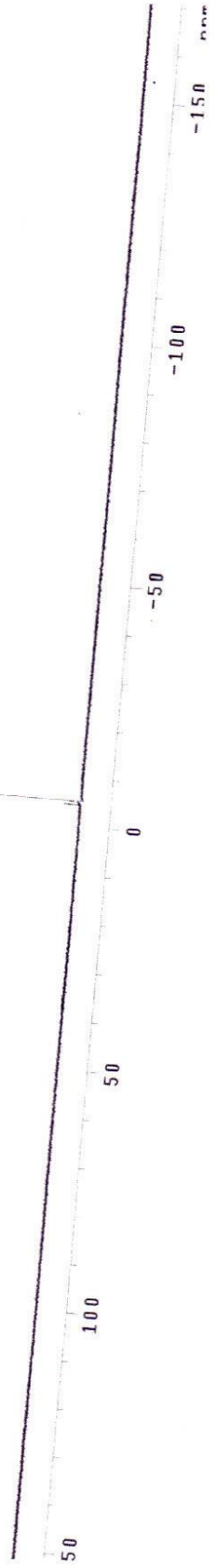
¹³C NMR



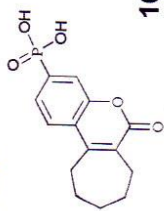
³¹P NMR



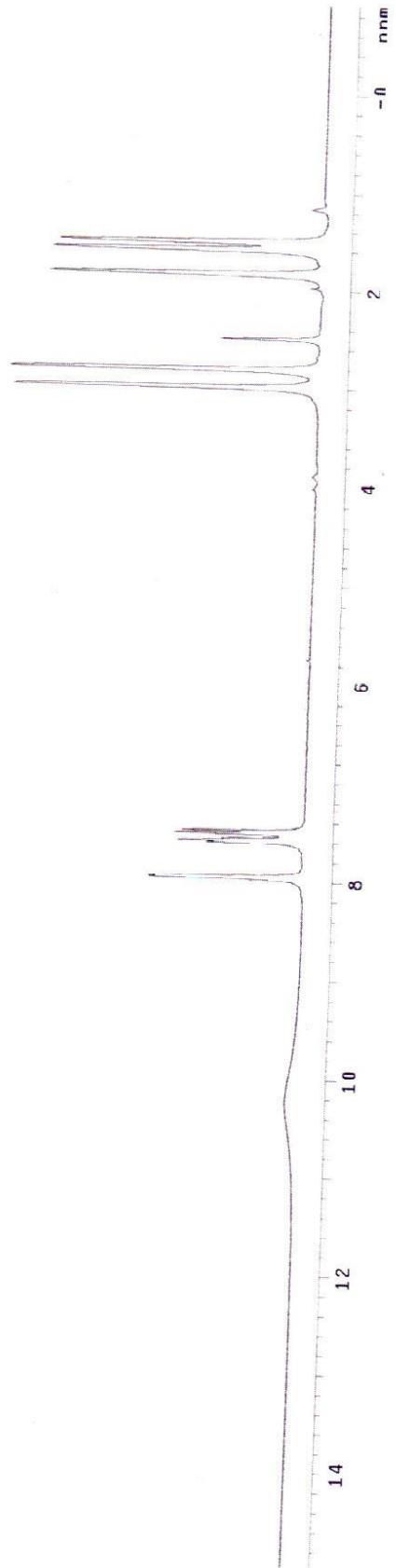
| INDEX | FREQUENCY | PPM | HEIGHT |
|-------|-----------|--------|--------|
| 1 | -1077.070 | -5.323 | 28.0 |



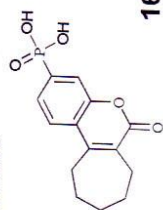
¹H NMR



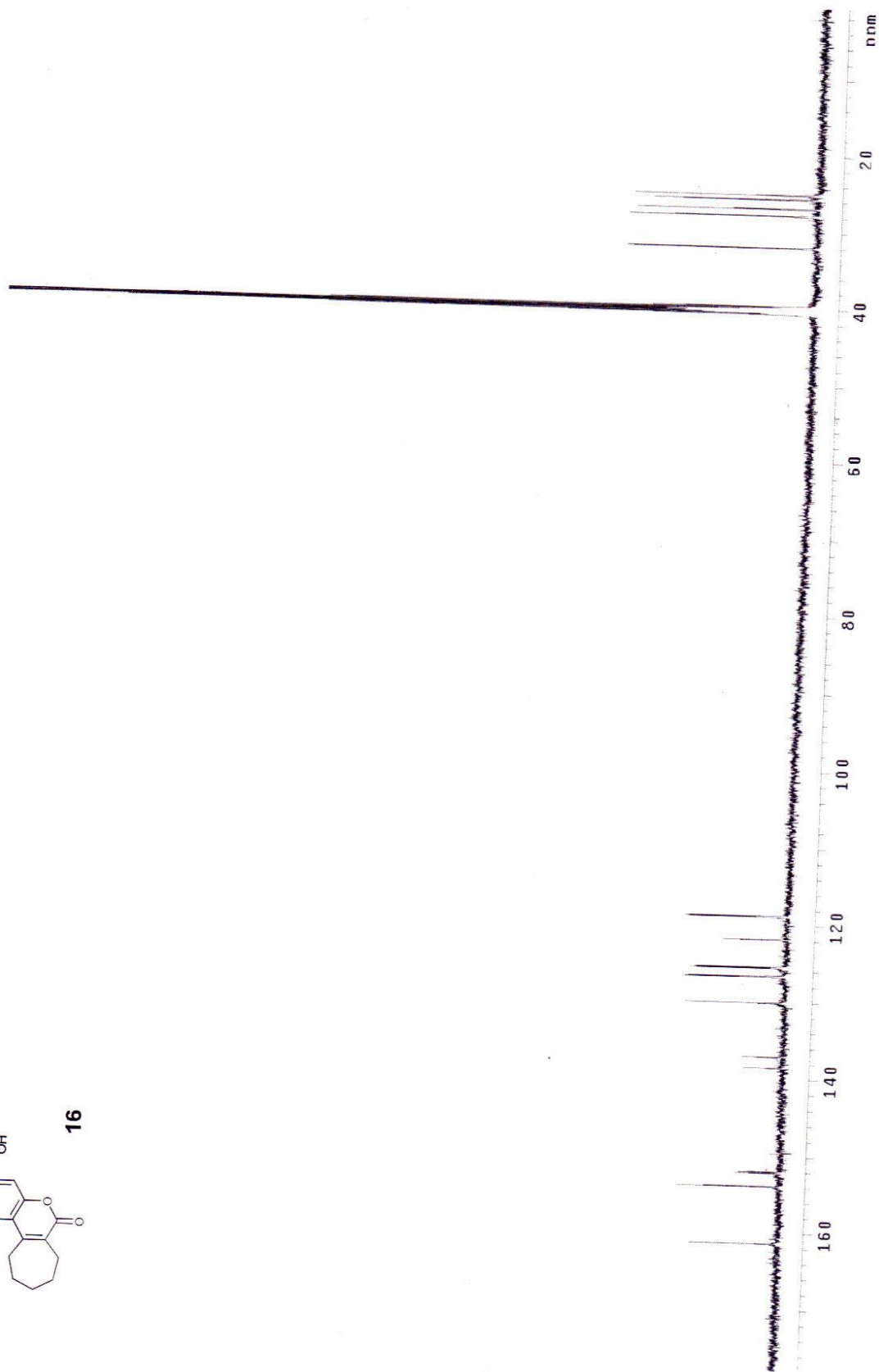
16



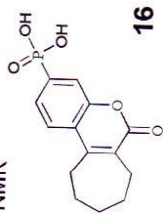
¹³C NMR



16



³¹P NMR



| INDEX | FREQUENCY | PPM | HEIGHT |
|-------|-----------|--------|--------|
| 1 | 2279.915 | 11.268 | 12.4 |

