

## Supplementary Material

### Ureas as new nucleophilic reagents for $S_N^H$ amination and carbamoyl amination reactions in the 1,3,7-triazapyrene series

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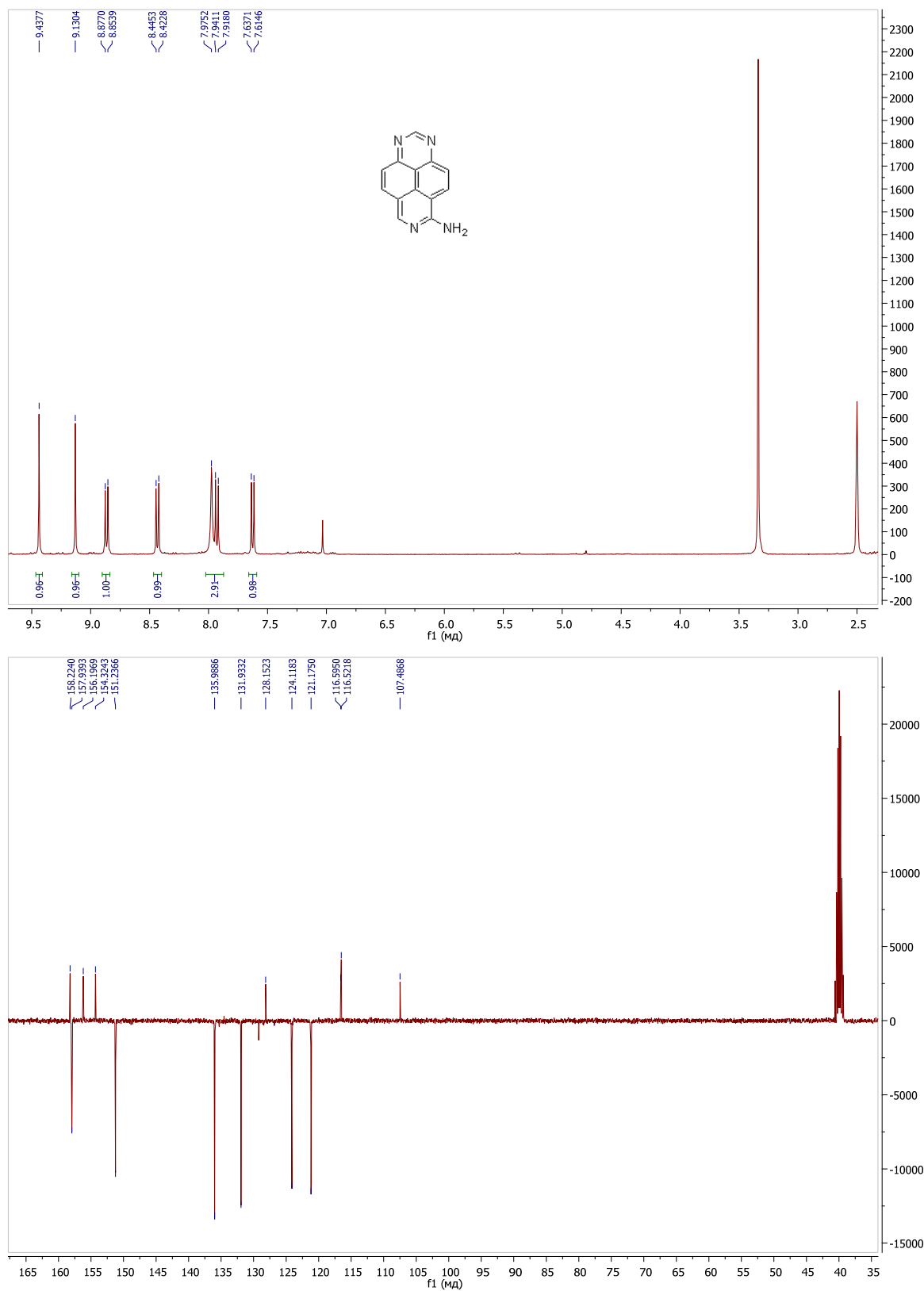
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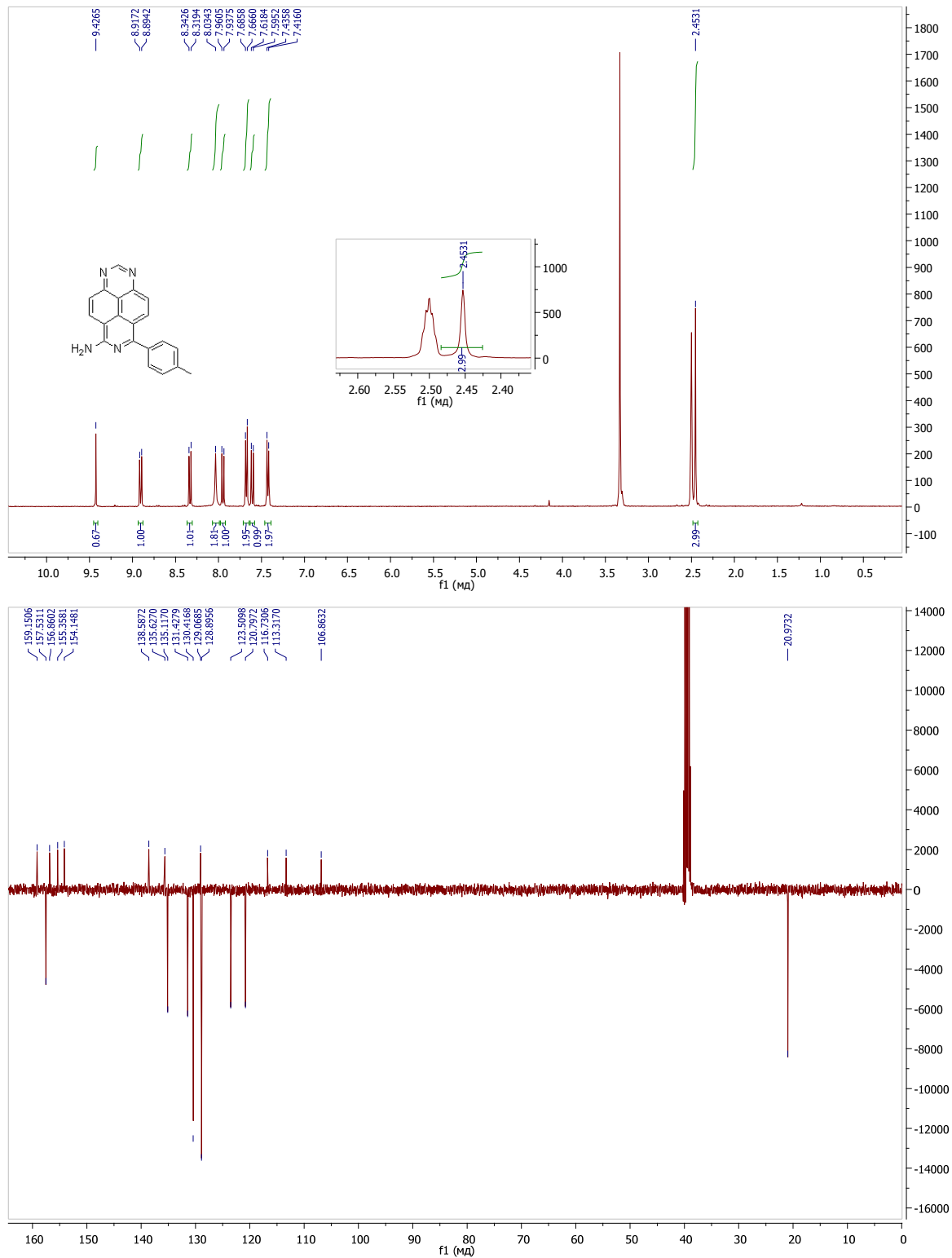
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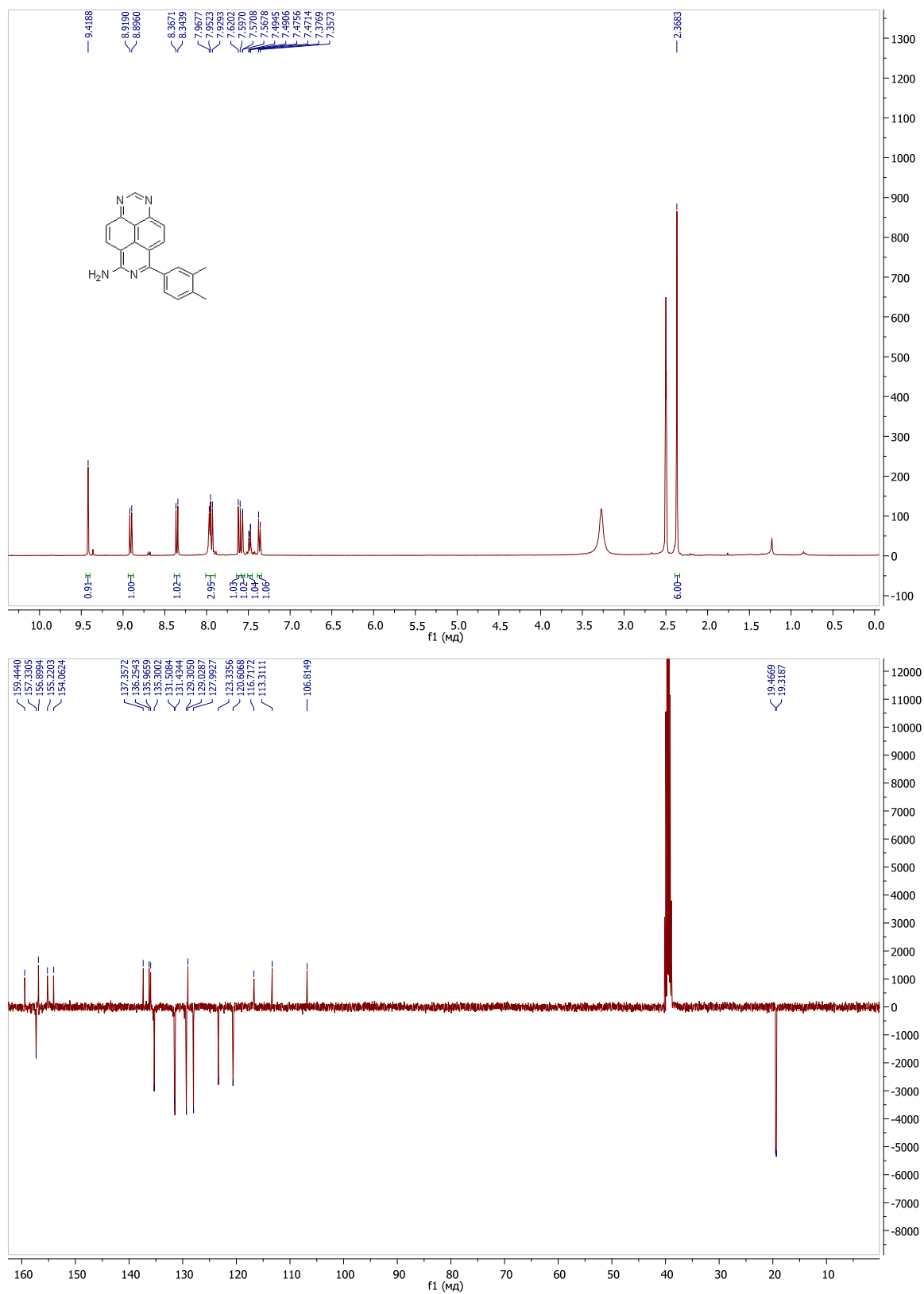
## NMR-Spectra

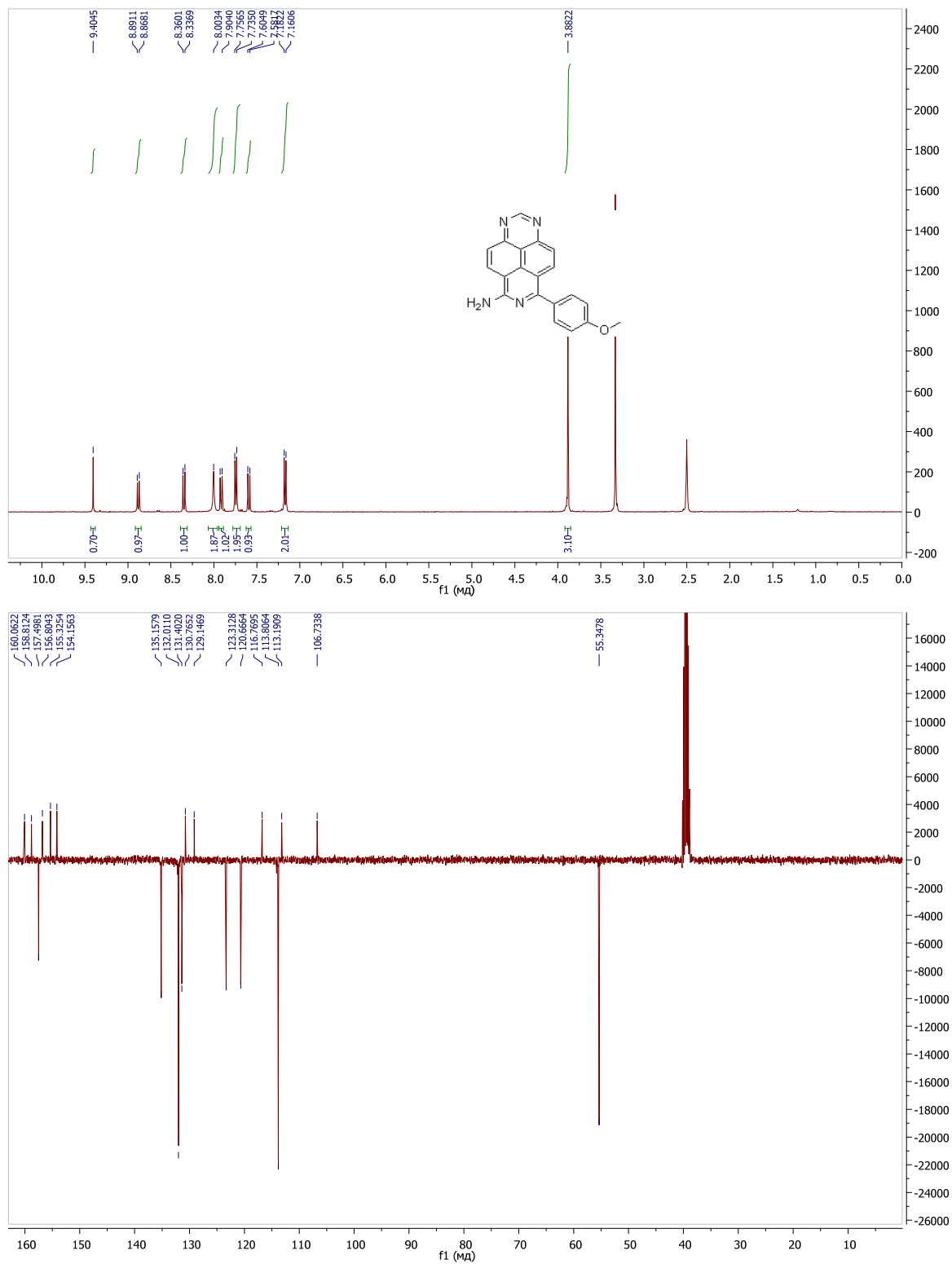
## 1,3,7-Triazapyrene-6-amine (3a)

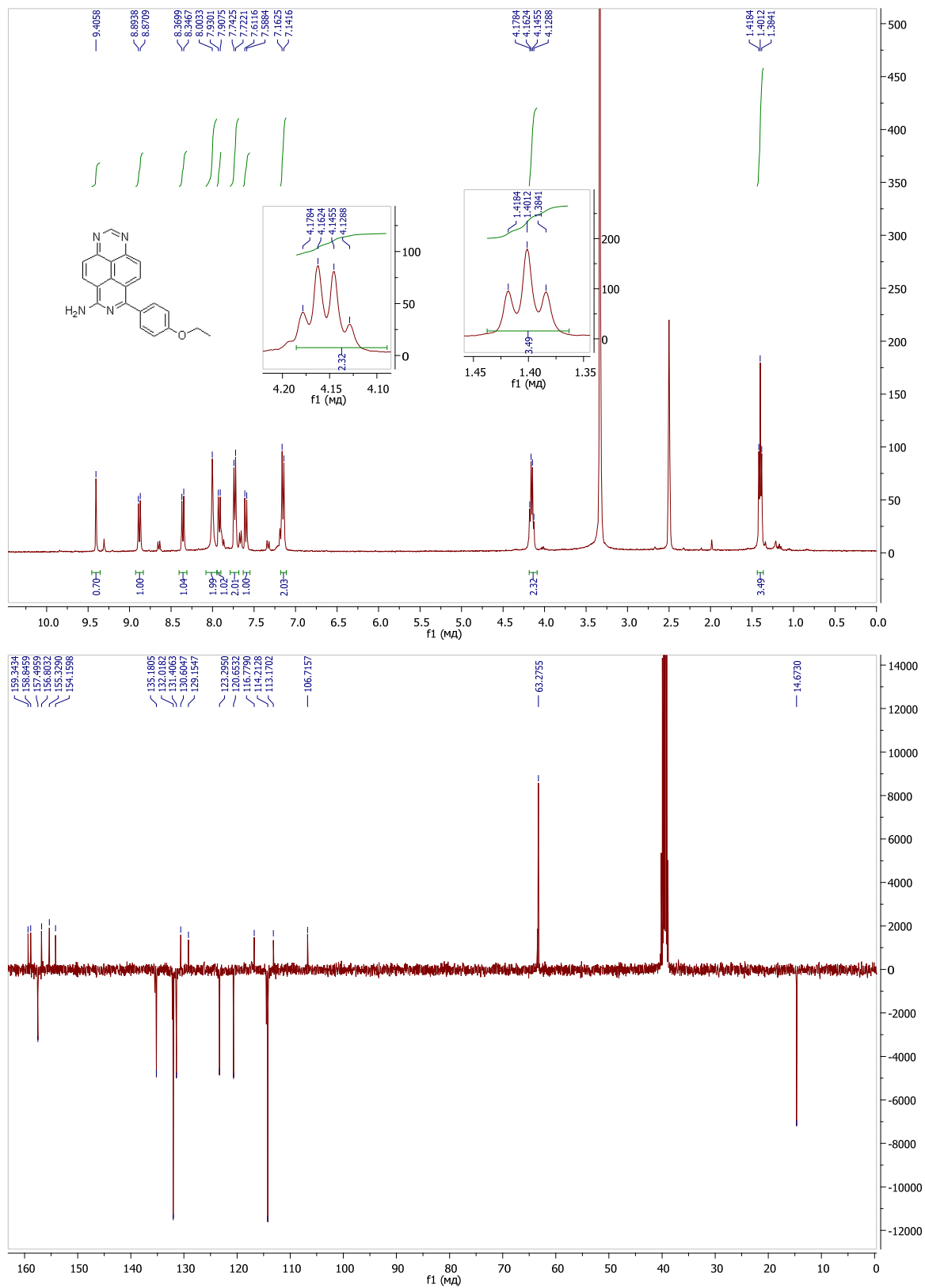


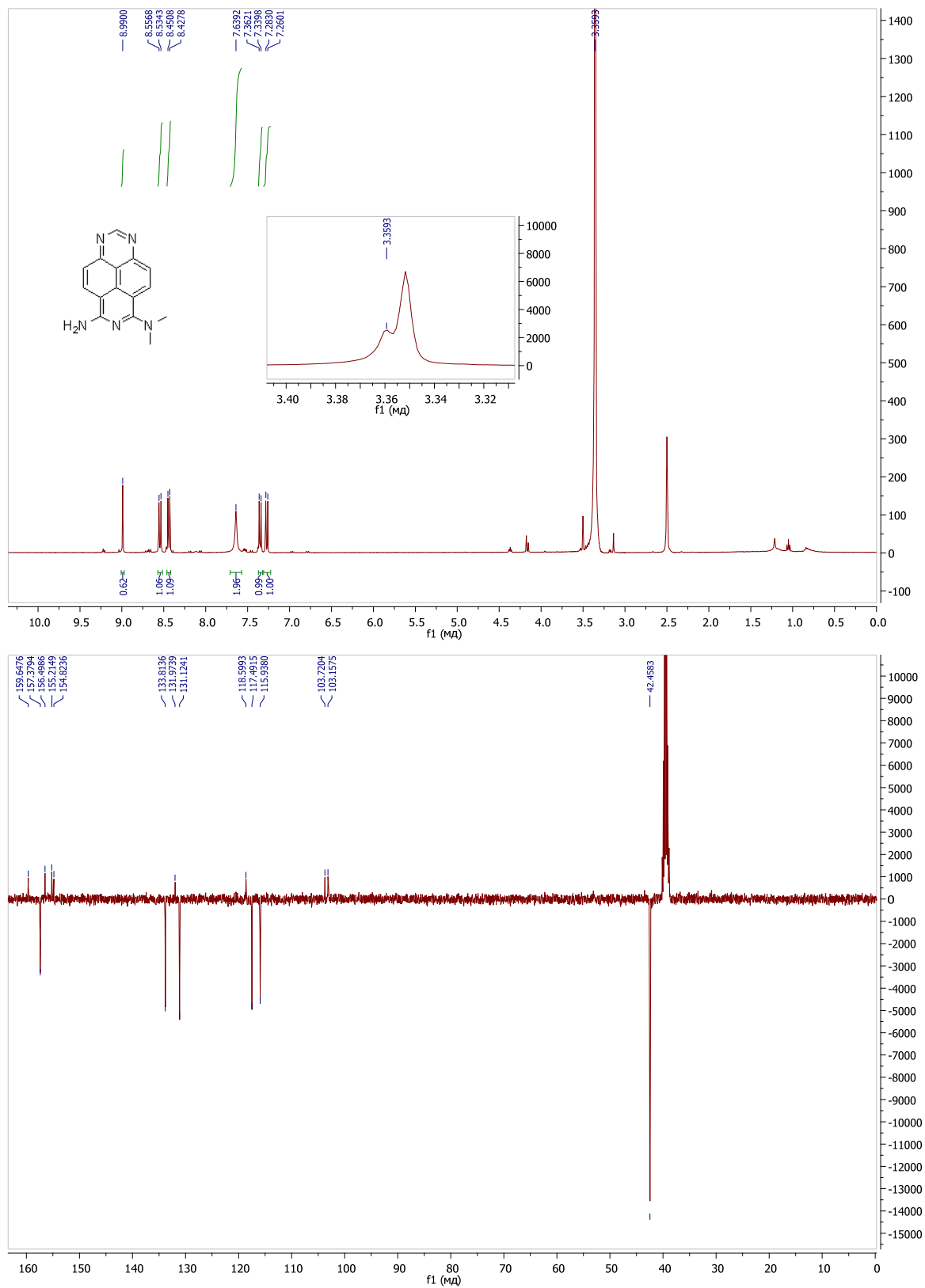
## 8-(4'-Tolyl)-1,3,7-triazapyren-6-amine (3b)



**8-(3',4'-Dimethylphenyl)-1,3,7-triazapyren-6-amine (3c)**

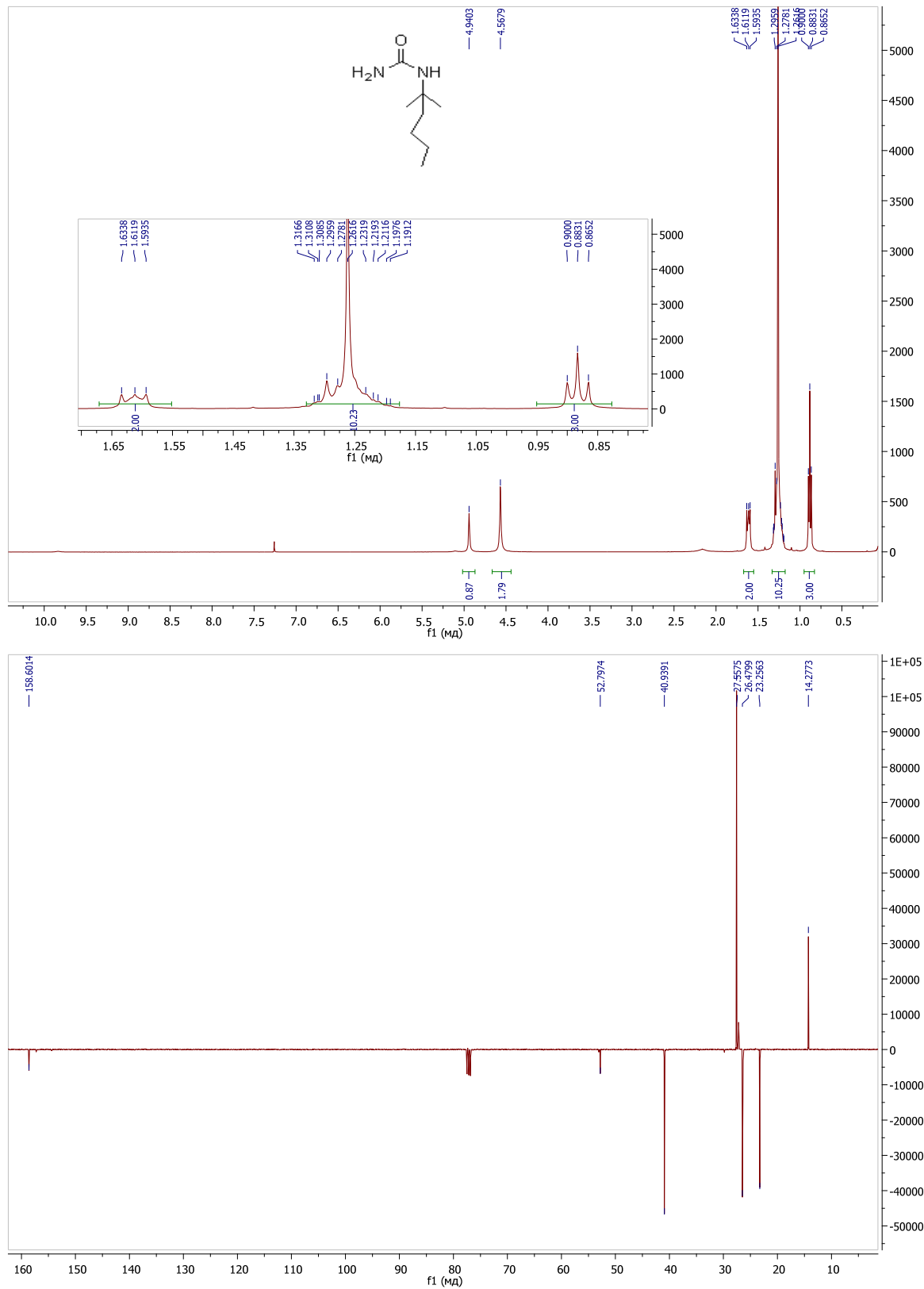
**8-(4'-Methoxyphenyl)-1,3,7-triazapyren-6-amine (3d).**

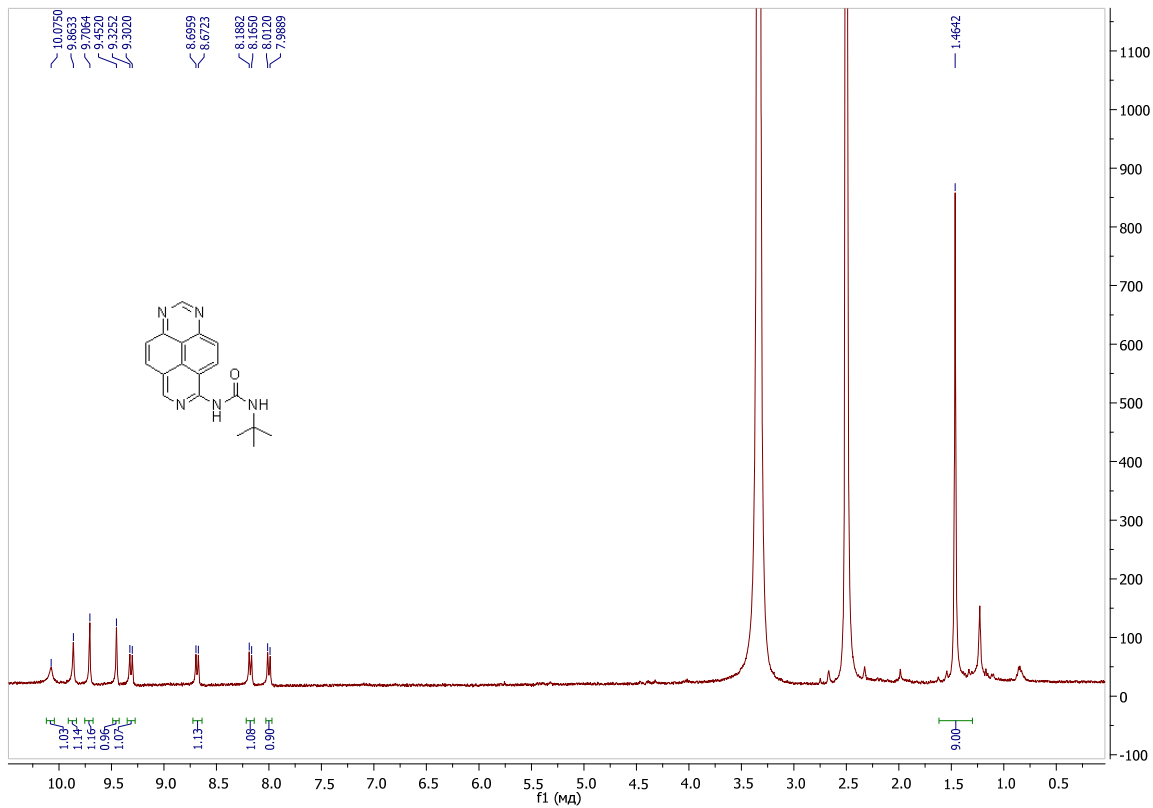
**8-(4'-Ethoxyphenyl)-1,3,7-triazapyren-6-amine (3e).**

**N,N-Dimethyl-1,3,7-triazapyren-6,8-diamine (3f).**

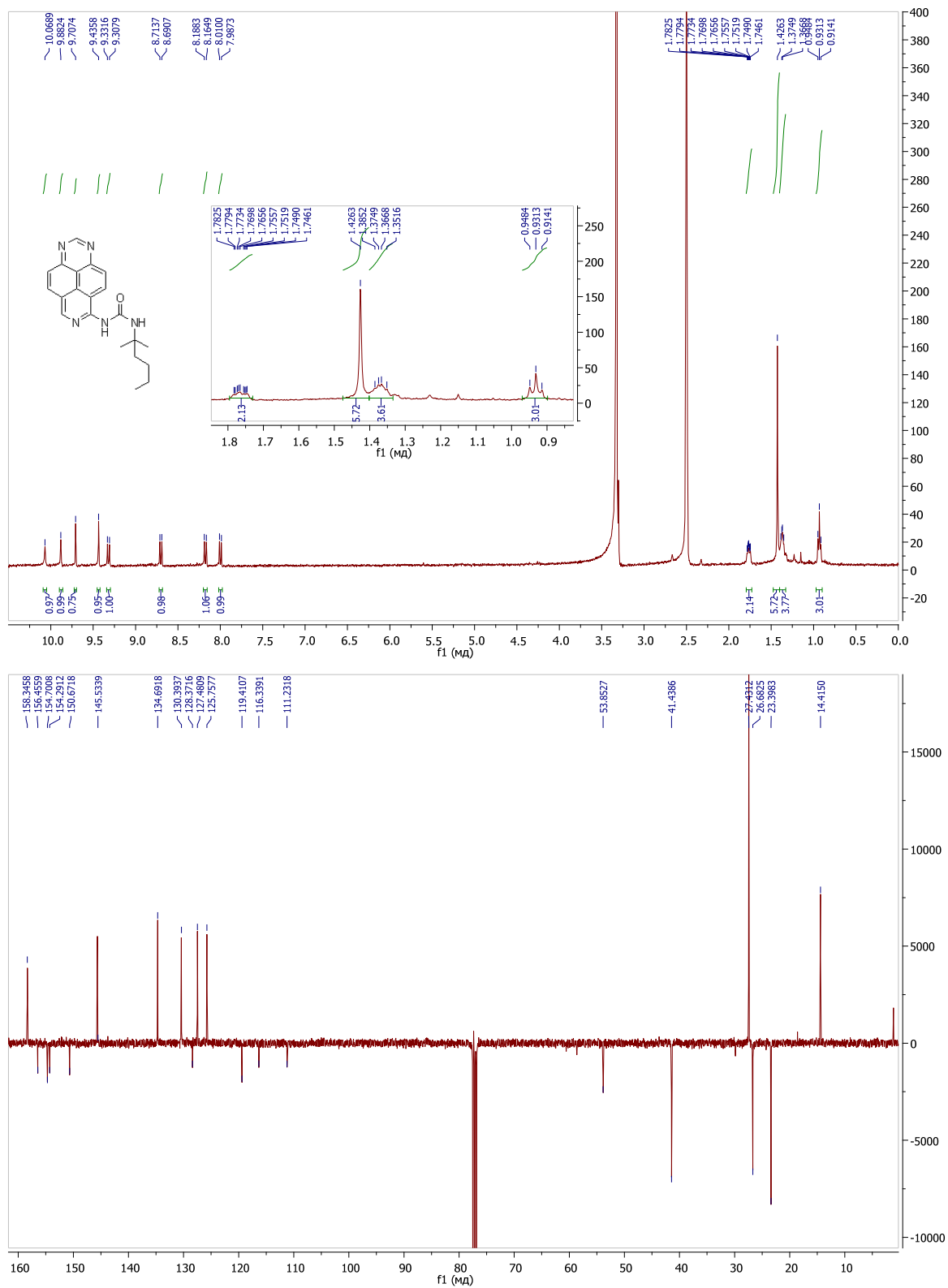


**(1,1-Dimethyl-pentyl)-urea**



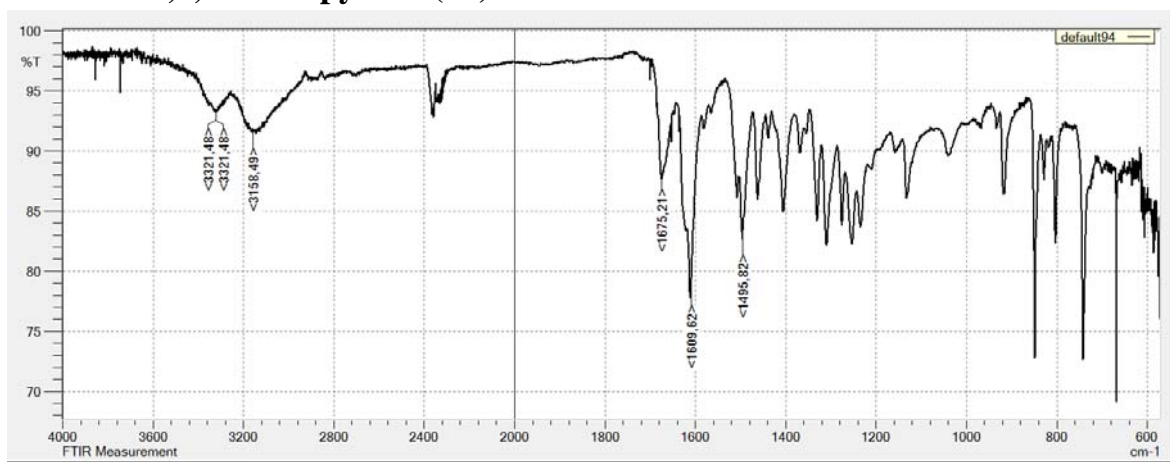
**1-(tert-Butyl)-3-(1,3,7-triazapyren-6-yl)-urea (9a)**

<sup>13</sup>C NMR spectrum of compound 10a could not be acquired due to insufficient solubility.

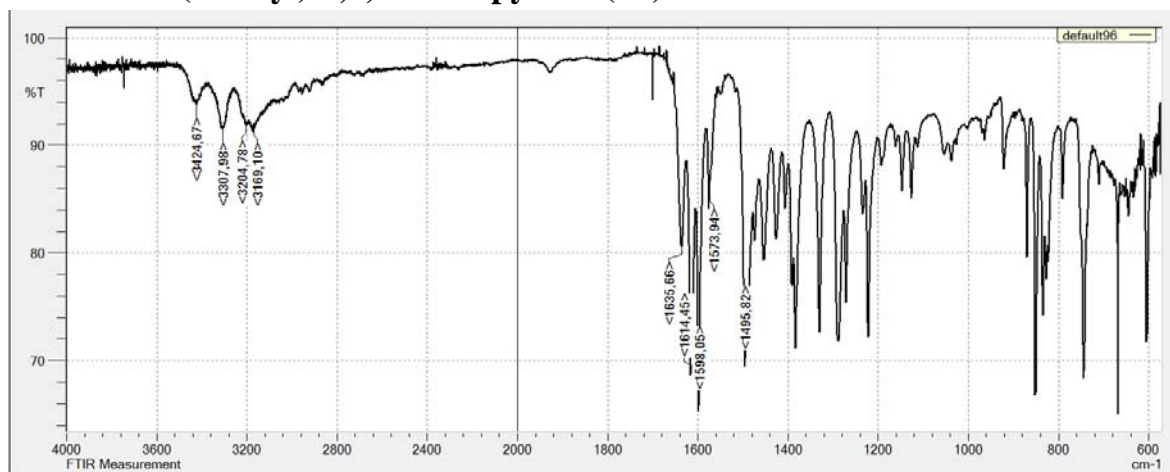
**1-(1,1-dimethyl-pentyl)-3-(1,3,7-triazapyren-6-yl)-urea (9b)**

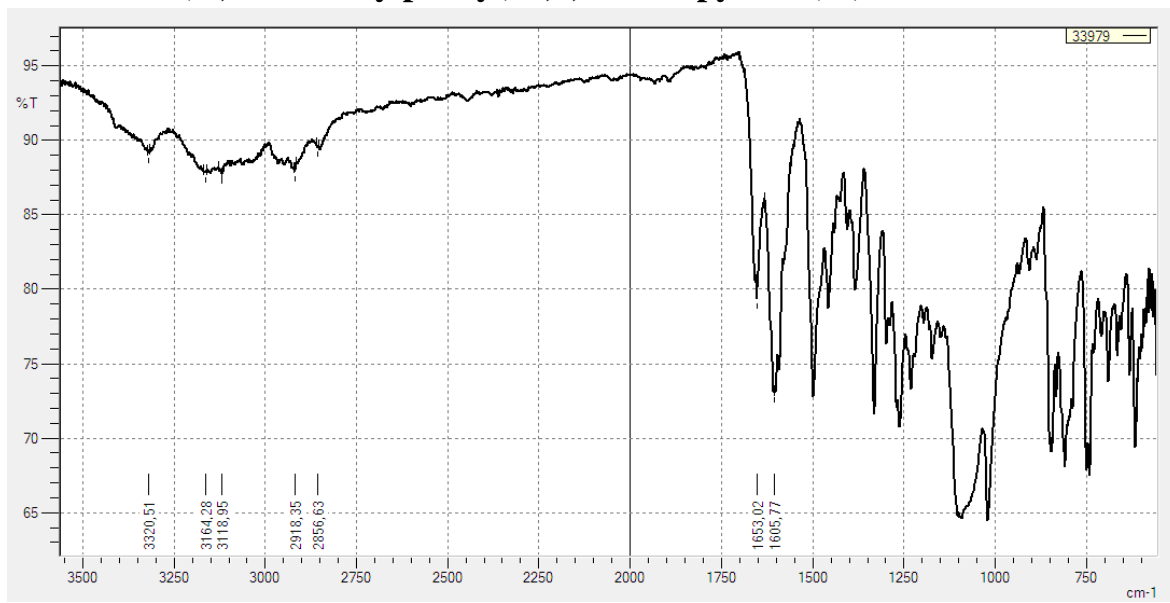
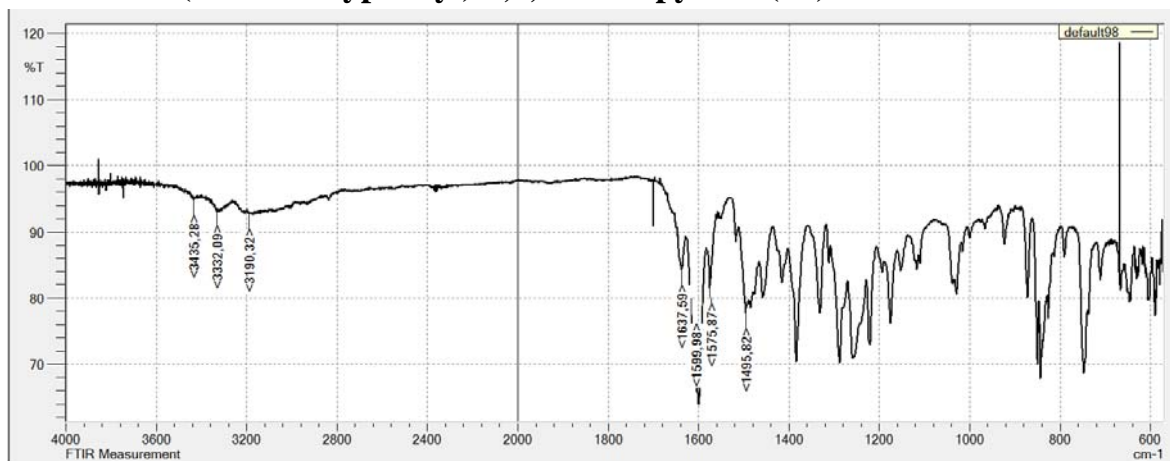
## IR-Spectra

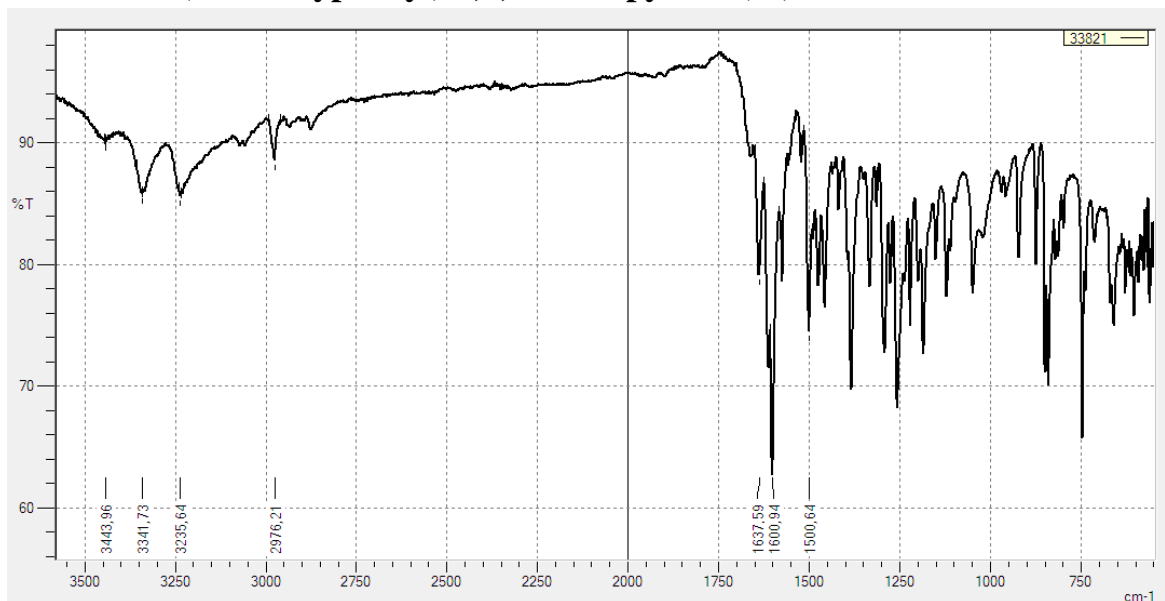
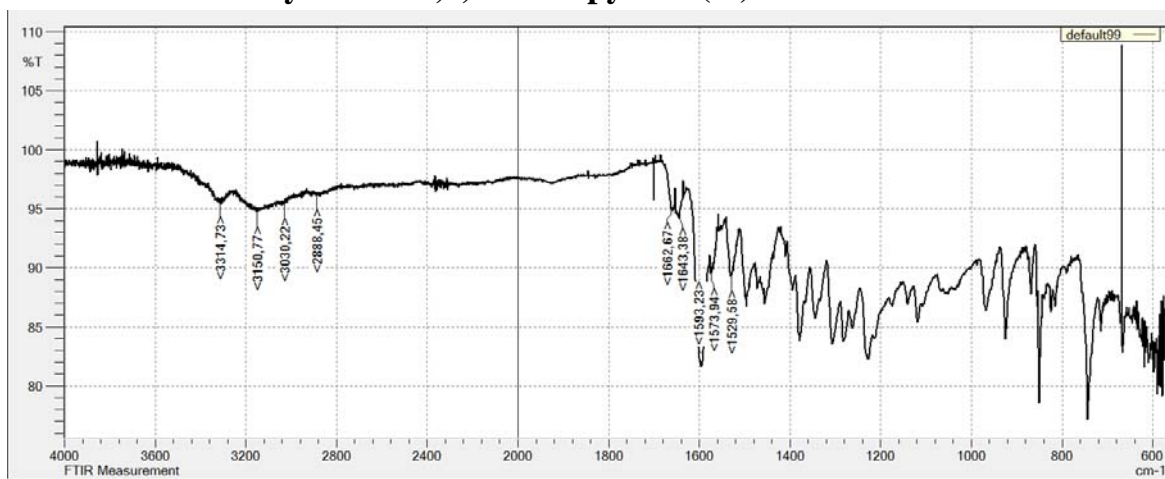
## 6-Amino-1,3,7-triazapyrene (3a)

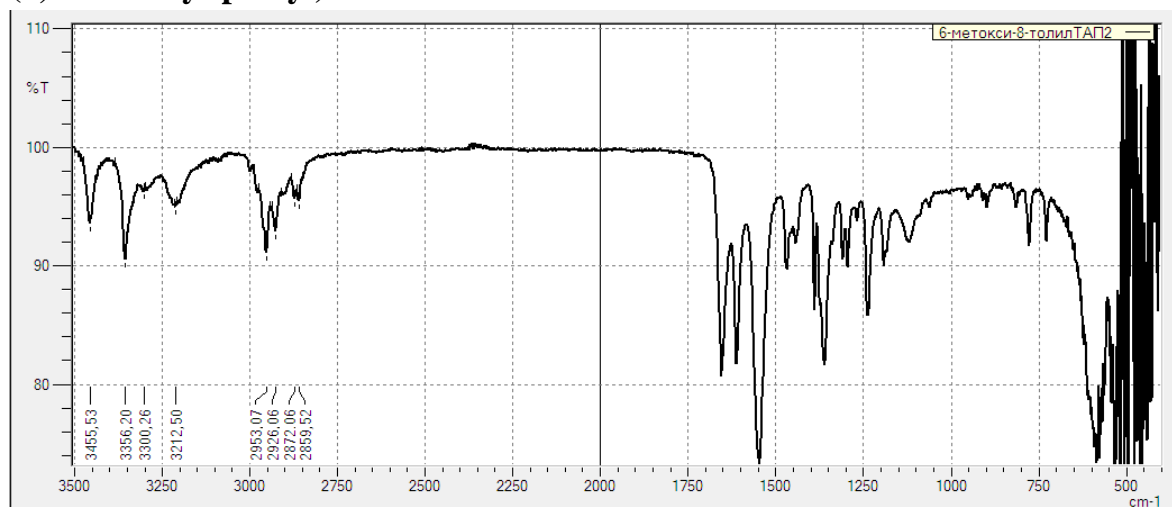
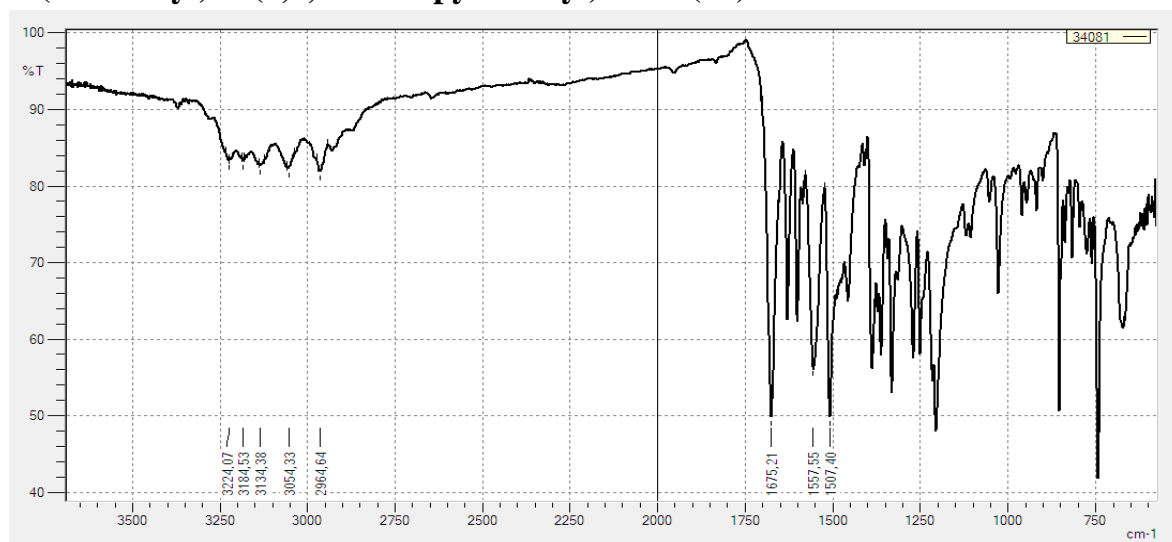


## 6-Amino-8-(4'-tolyl)-1,3,7-triazapyrene (3b)



**6-Amino-8-(3',4'-dimethylphenyl)-1,3,7-triazapyrene (3c)****6-Amino-8-(4'-methoxyphenyl)-1,3,7-triazapyrene (3d)**

**6-Amino-8-(4'-ethoxyphenyl)-1,3,7-triazapyrene (3e)****6-Amino-8-dimethylamino-1,3,7-triazapyrene (3f)**

**(1,1-dimethyl-pentyl)-urea****1-(tert-Butyl)-3-(1,3,7-triazapyren-6-yl)-urea (9a)****1-(1,1-dimethylpentyl)-3-(1,3,7-triazapyren-6-yl)-urea (9b)**