

Palladium-Catalyzed C3 Arylations of 1*H* and 2*H* Pyrazolo[4,3-*b*]pyridines on Water

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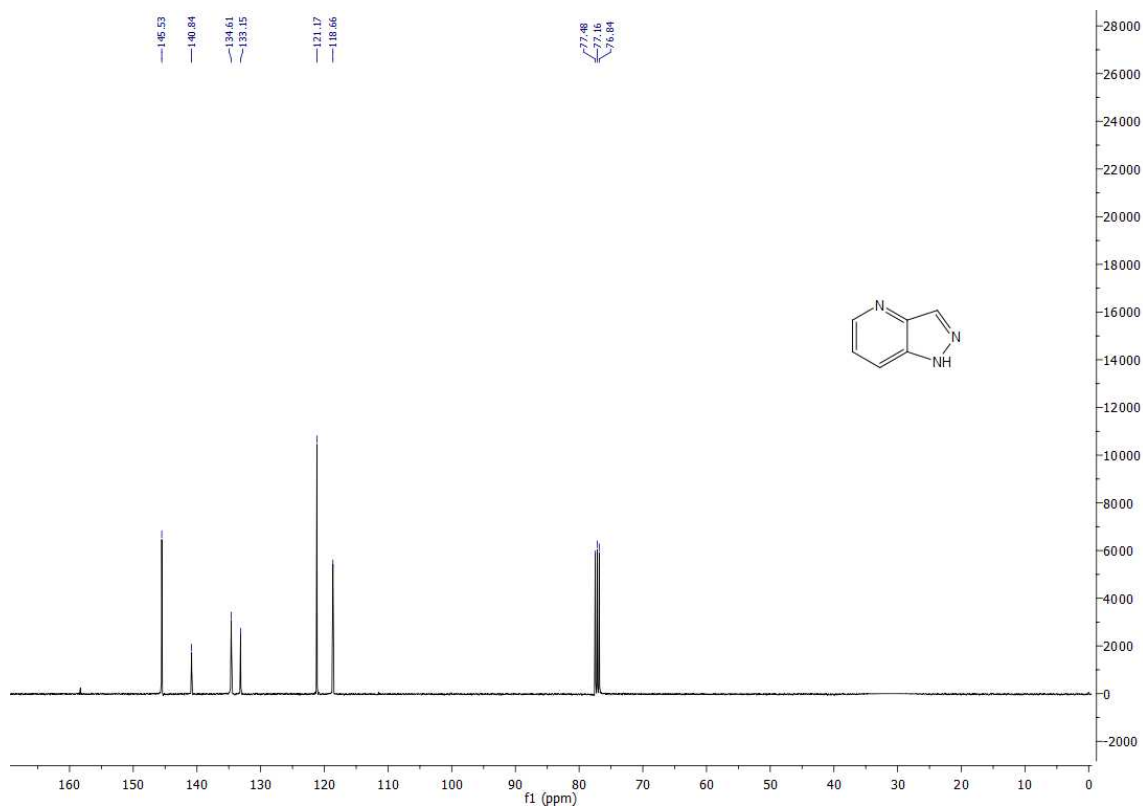
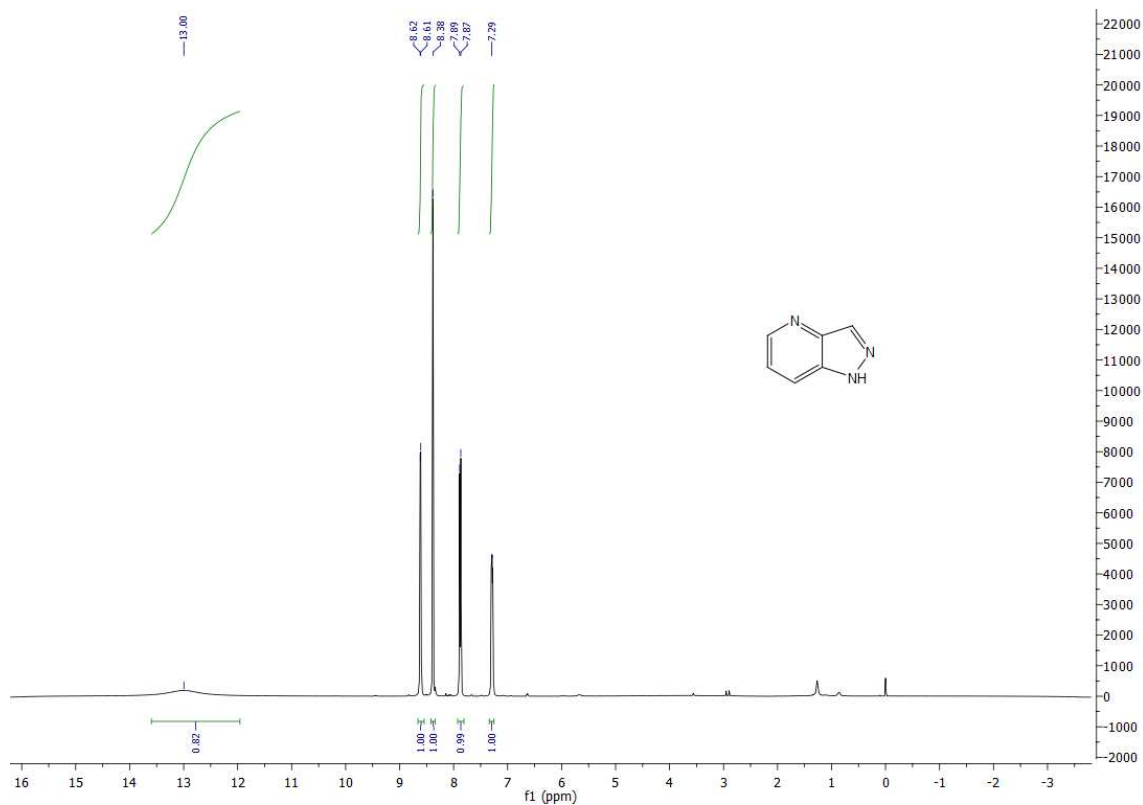
* Corresponding authors: s.elkazzouli@ueuromed.org; franck.suzenet@univ-orleans.fr; gerald.guillaumet@univ-orleans.fr.

Supporting Information

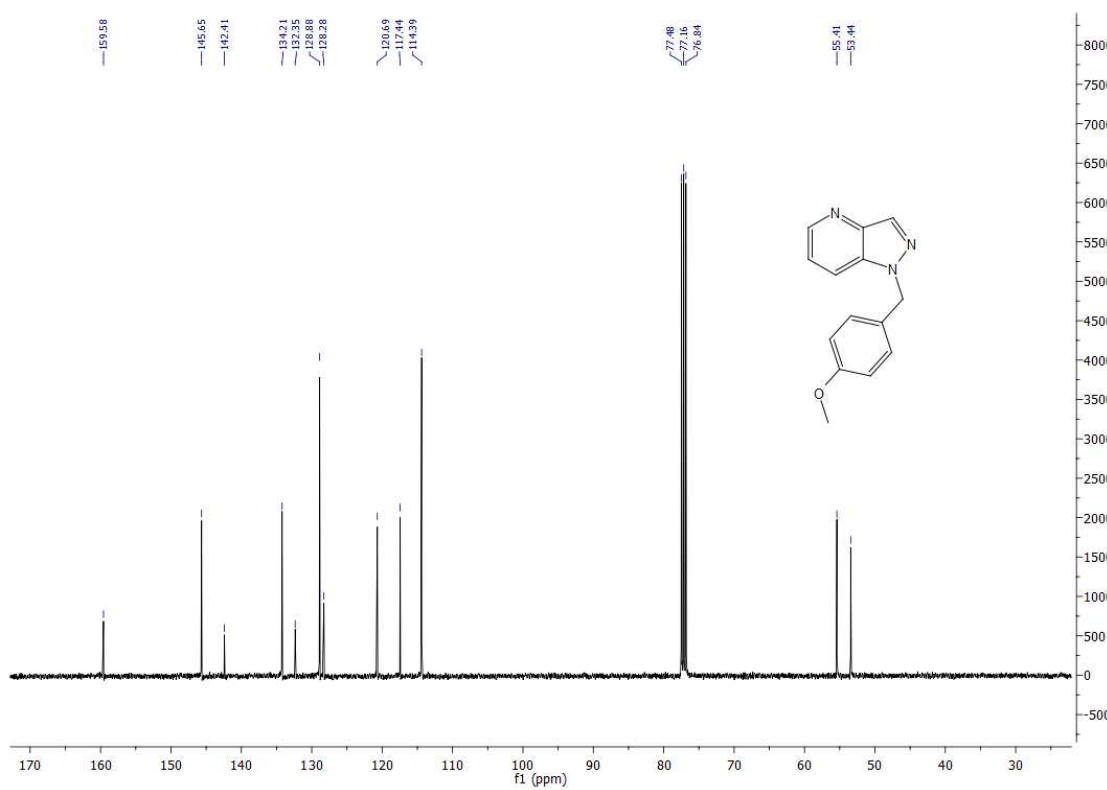
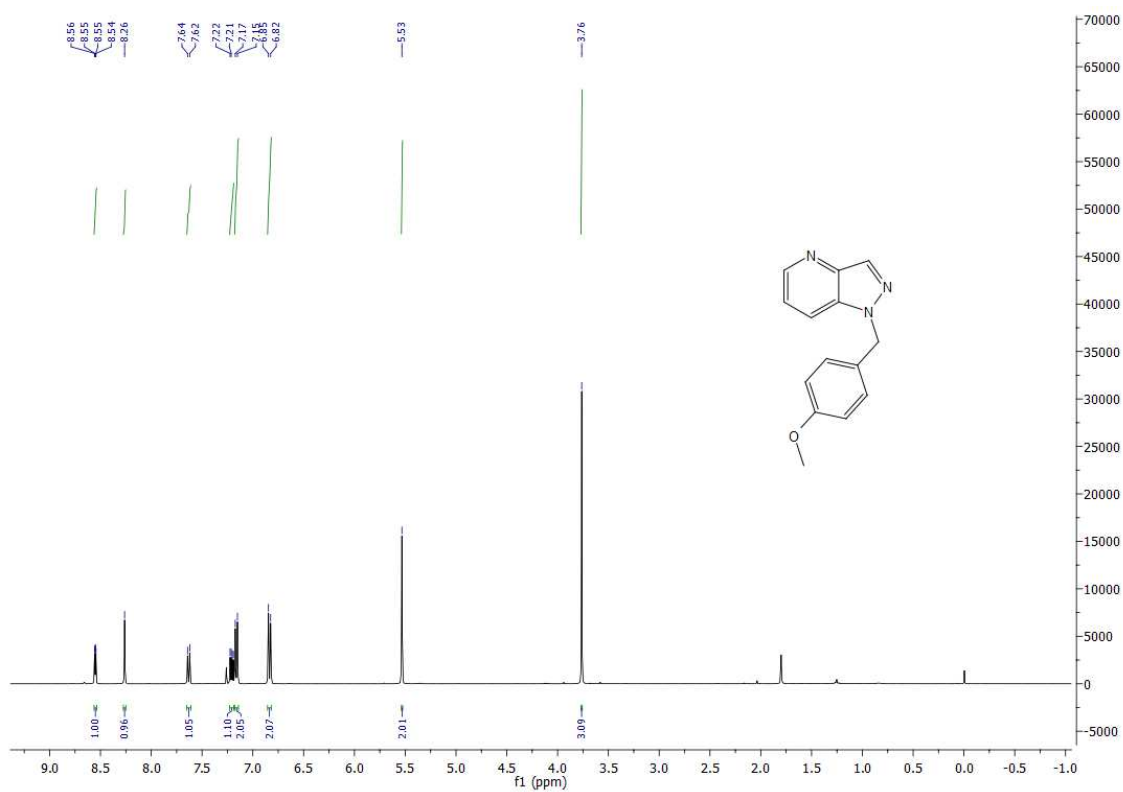
1. ¹ H NMR and ¹³ C spectra of new compounds	S2
2. 2D NOESY spectra of 1 and 3	S35

1- ^1H NMR and ^{13}C spectra of new compounds

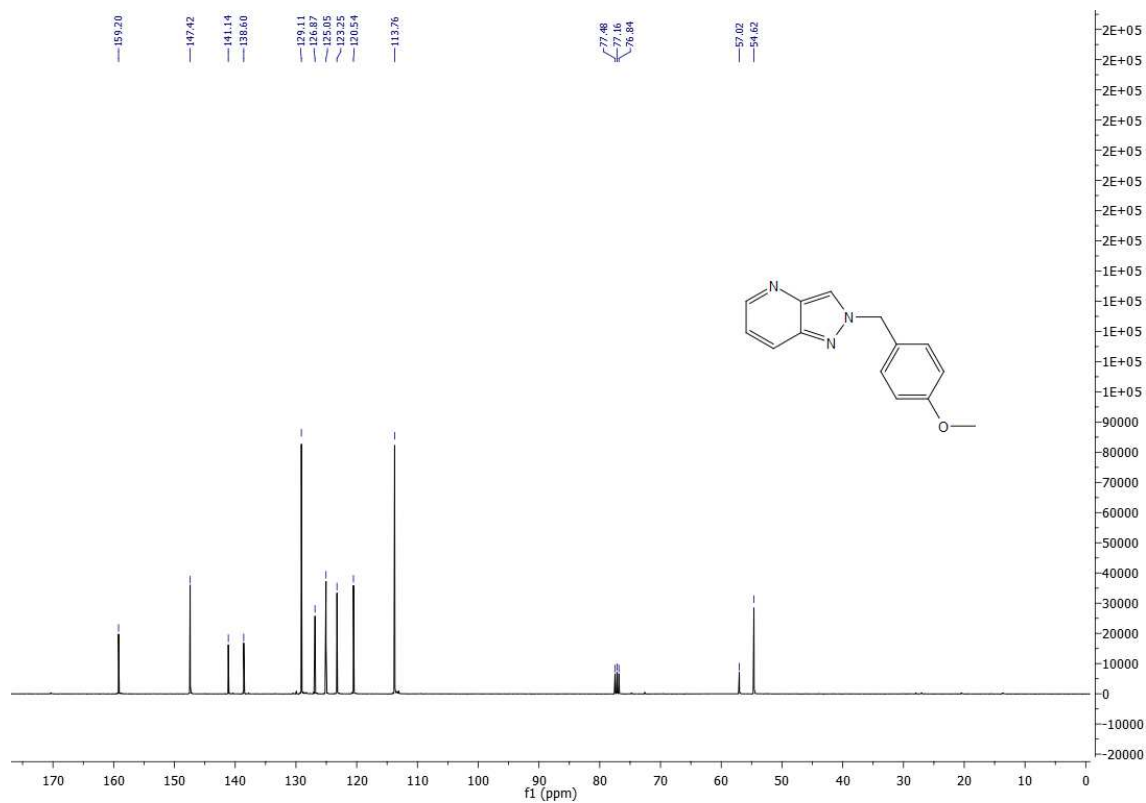
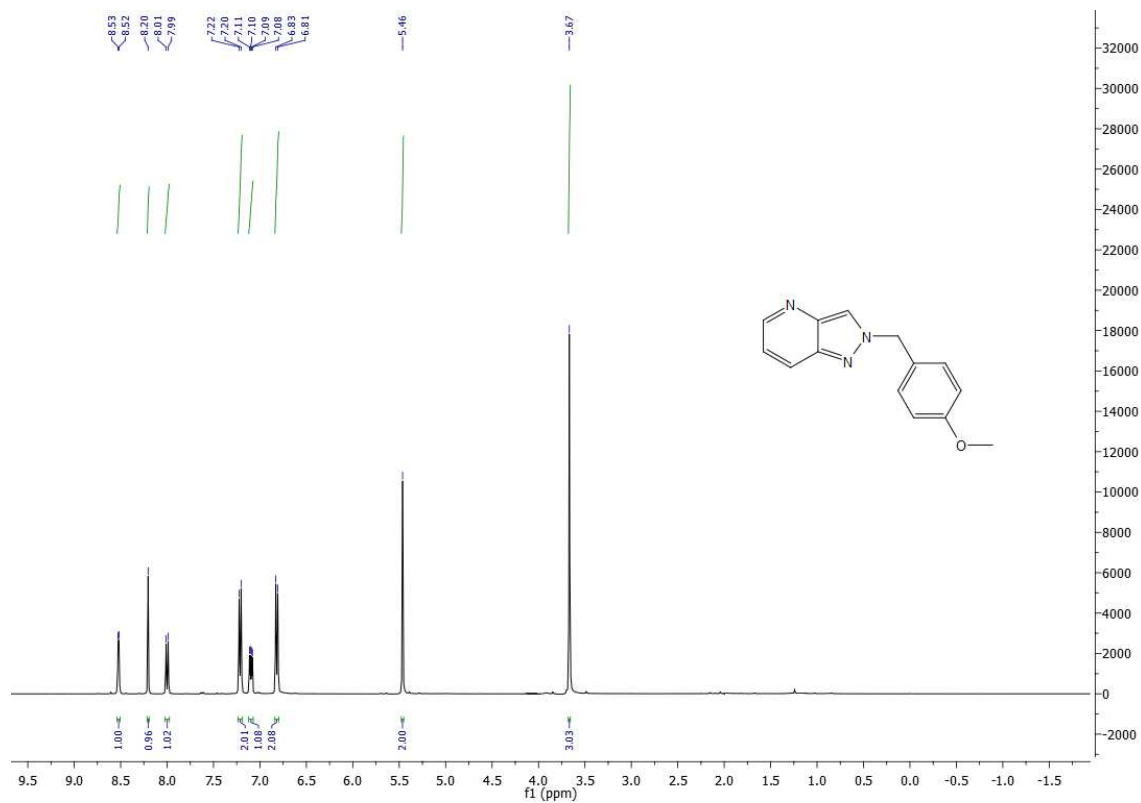
1H-Pyrazolo[4,3-b]pyridine



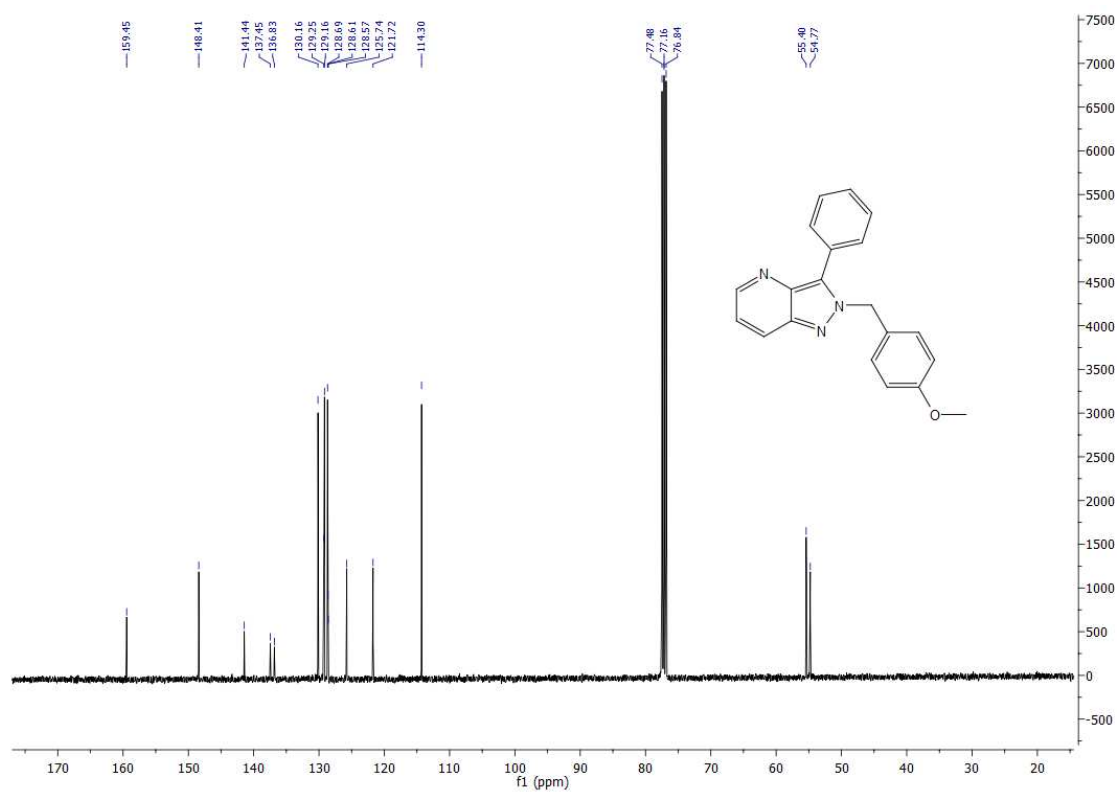
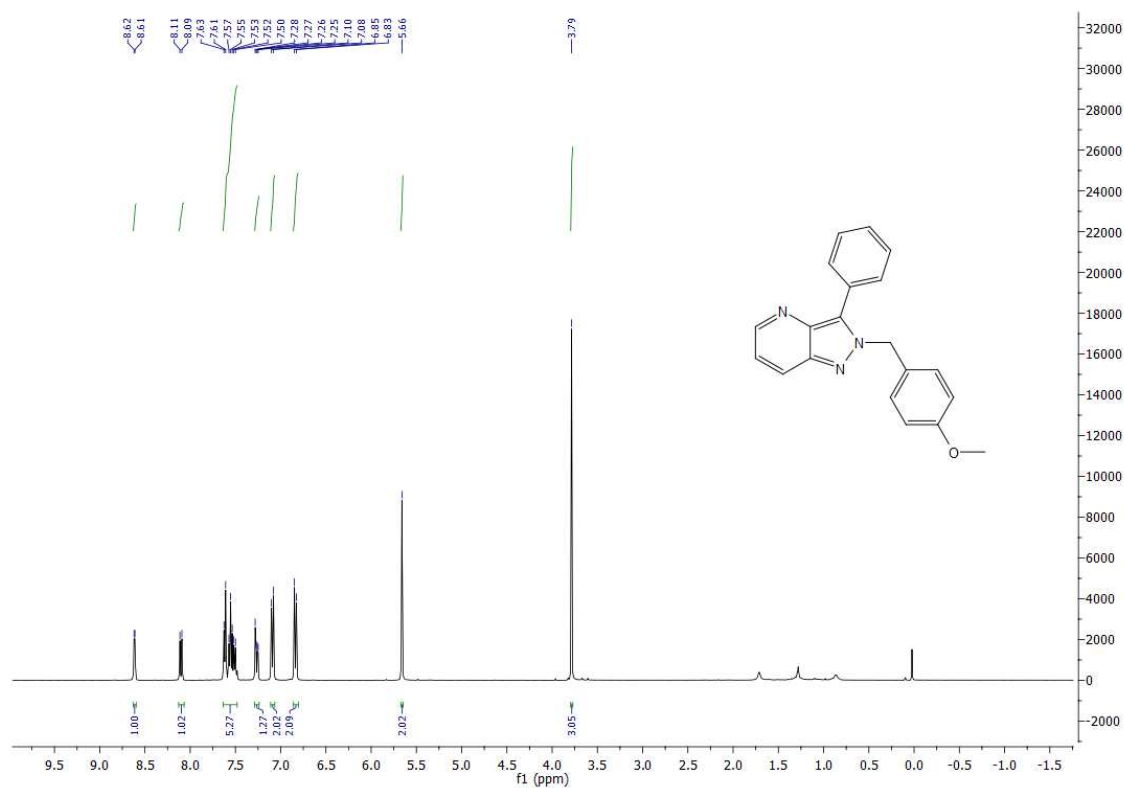
1-(4-Methoxybenzyl)-1H-pyrazolo[4,3-b]pyridine **3**



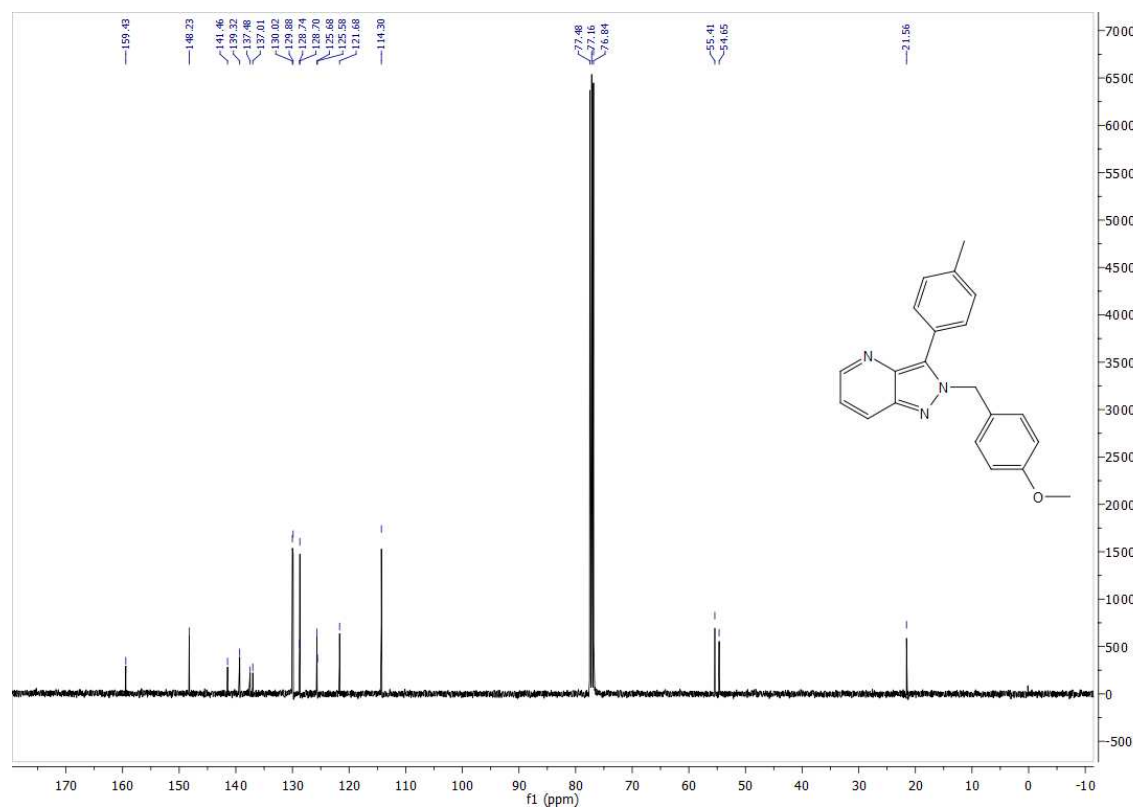
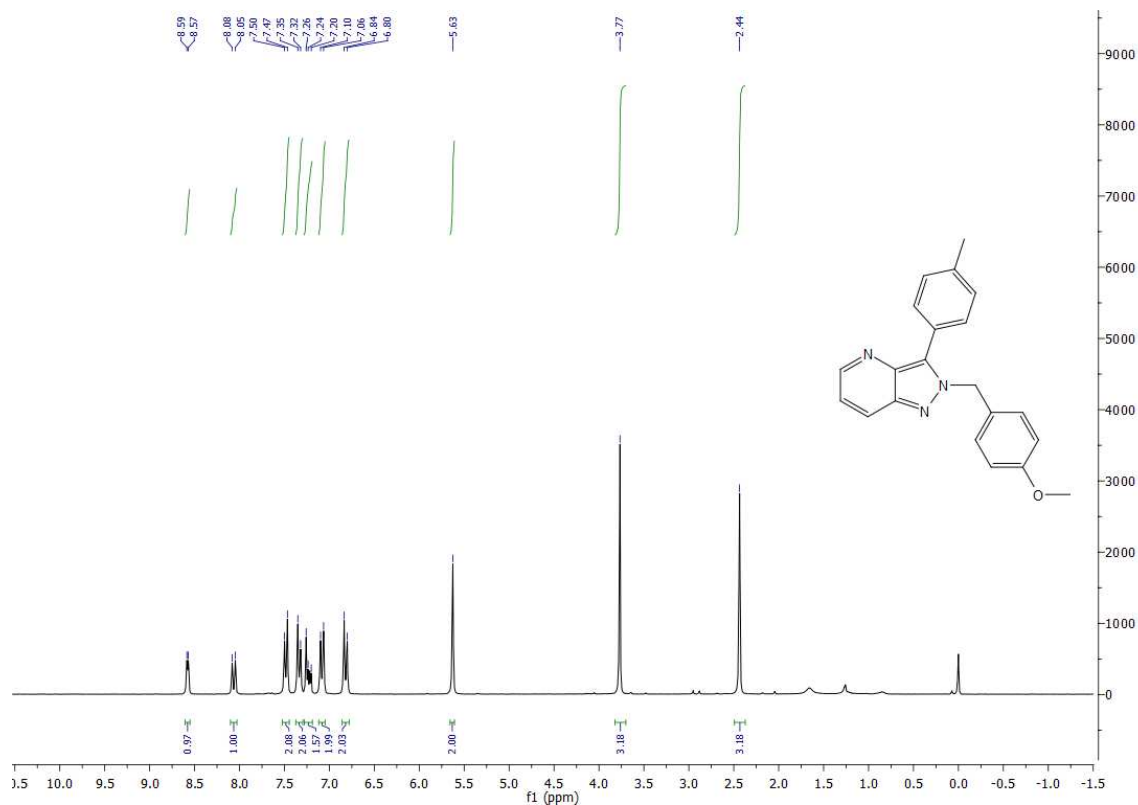
2-(4-Methoxybenzyl)-2H-pyrazolo[4,3-b]pyridine **1**

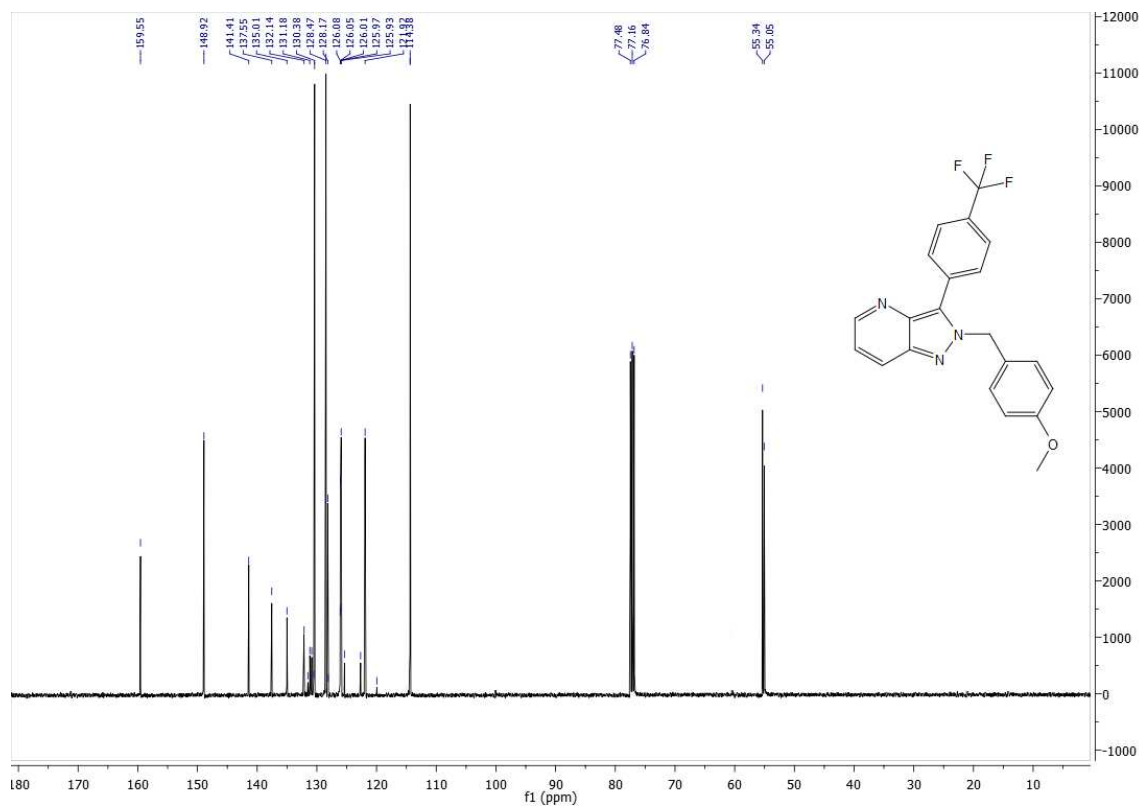


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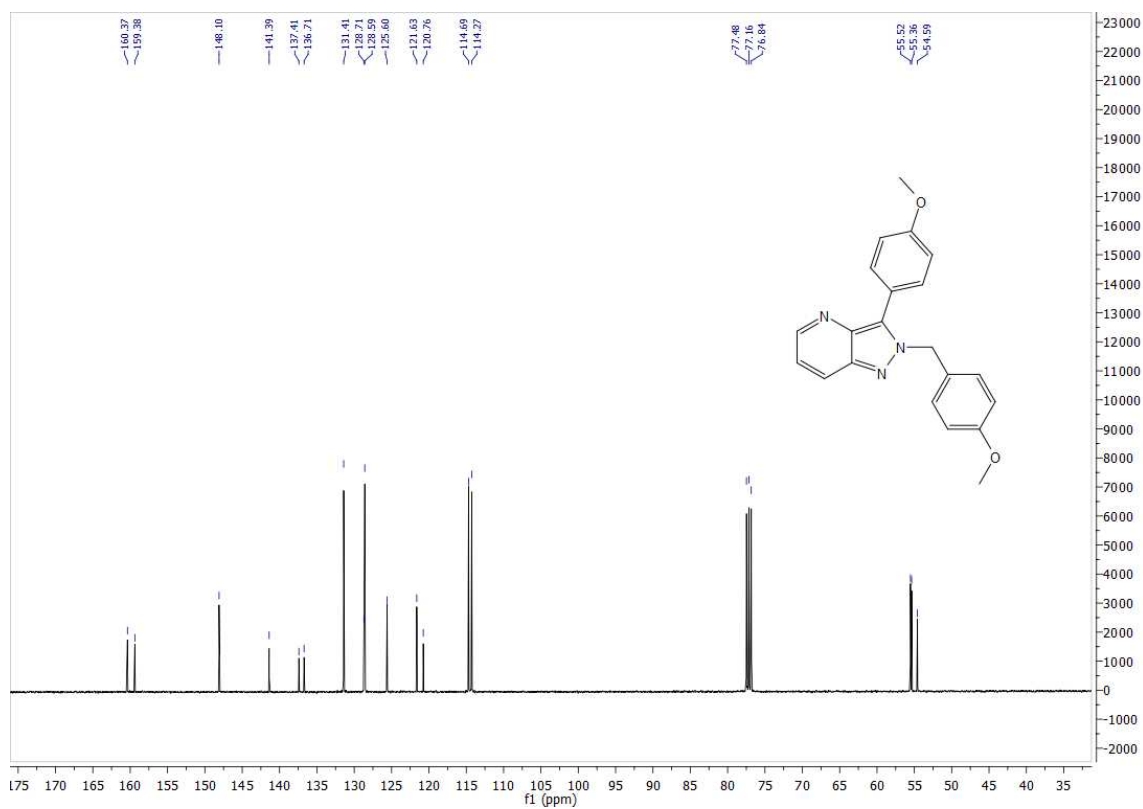
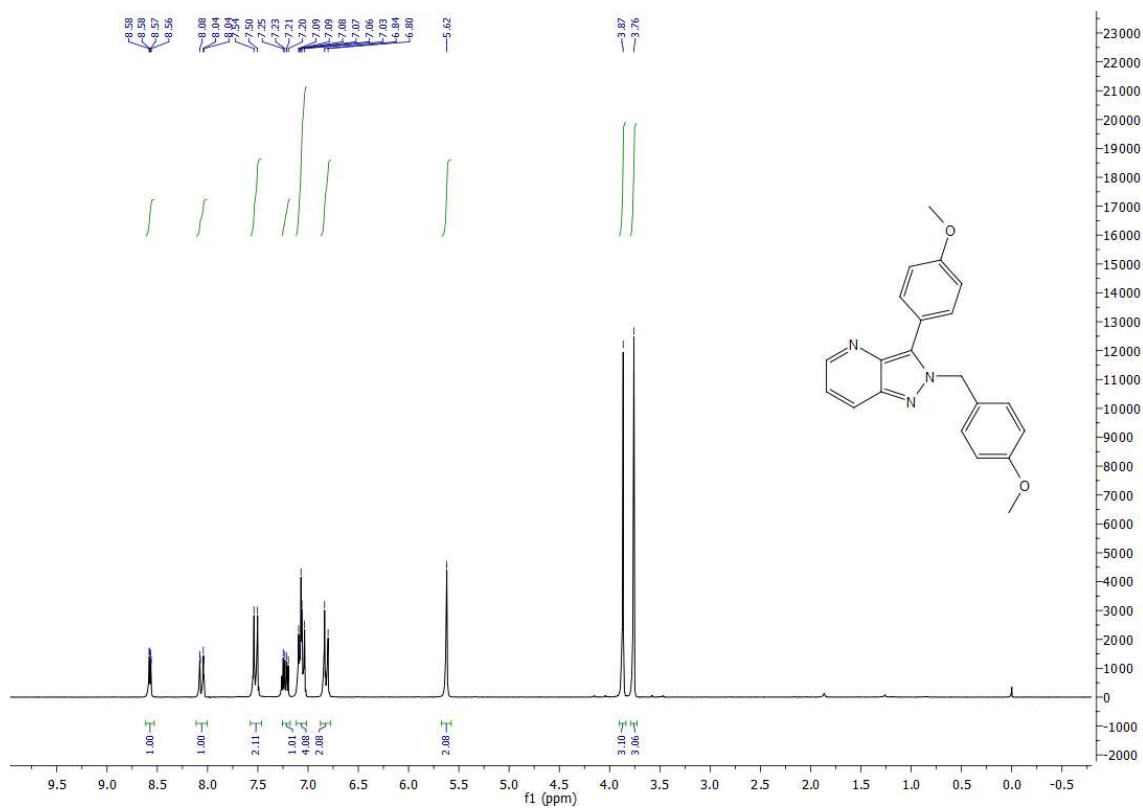


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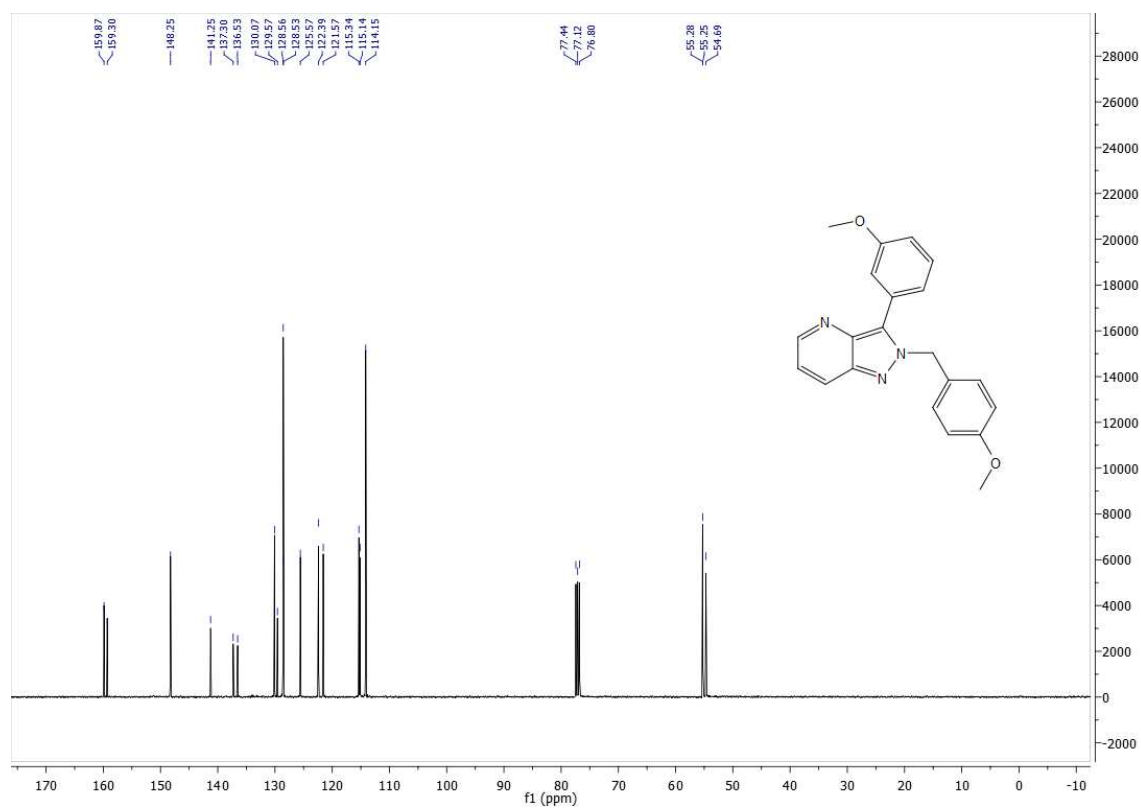
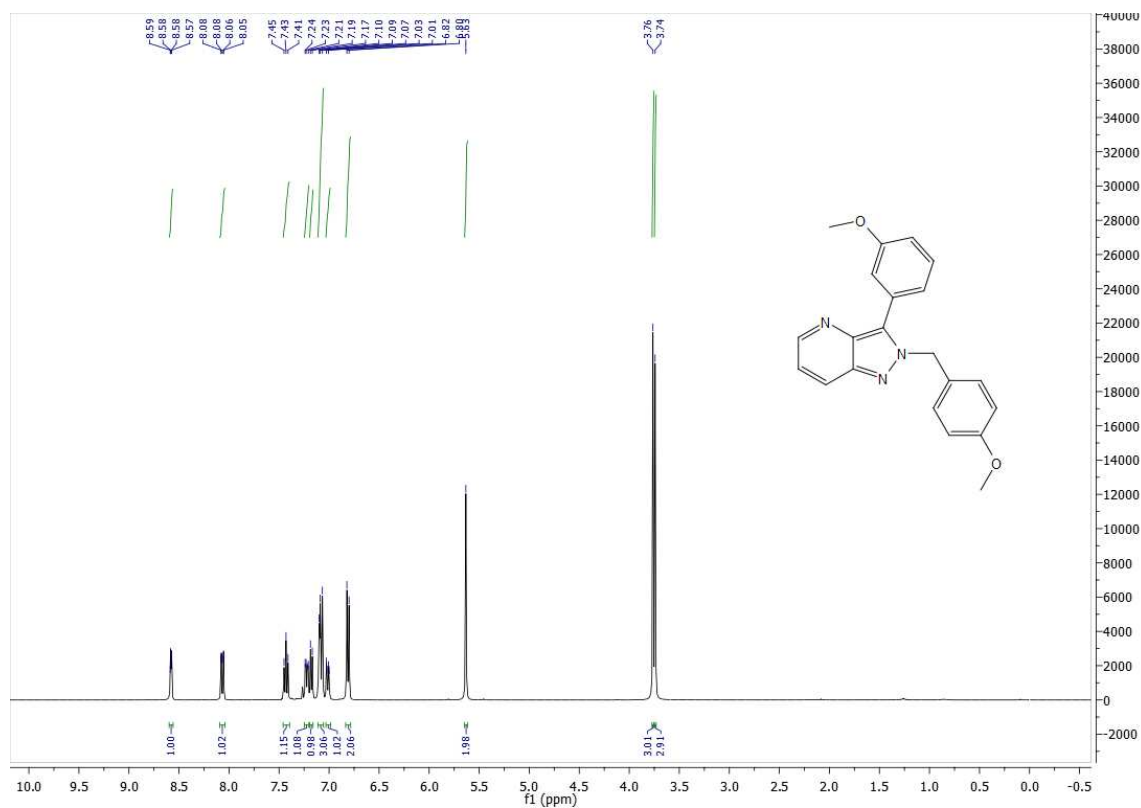




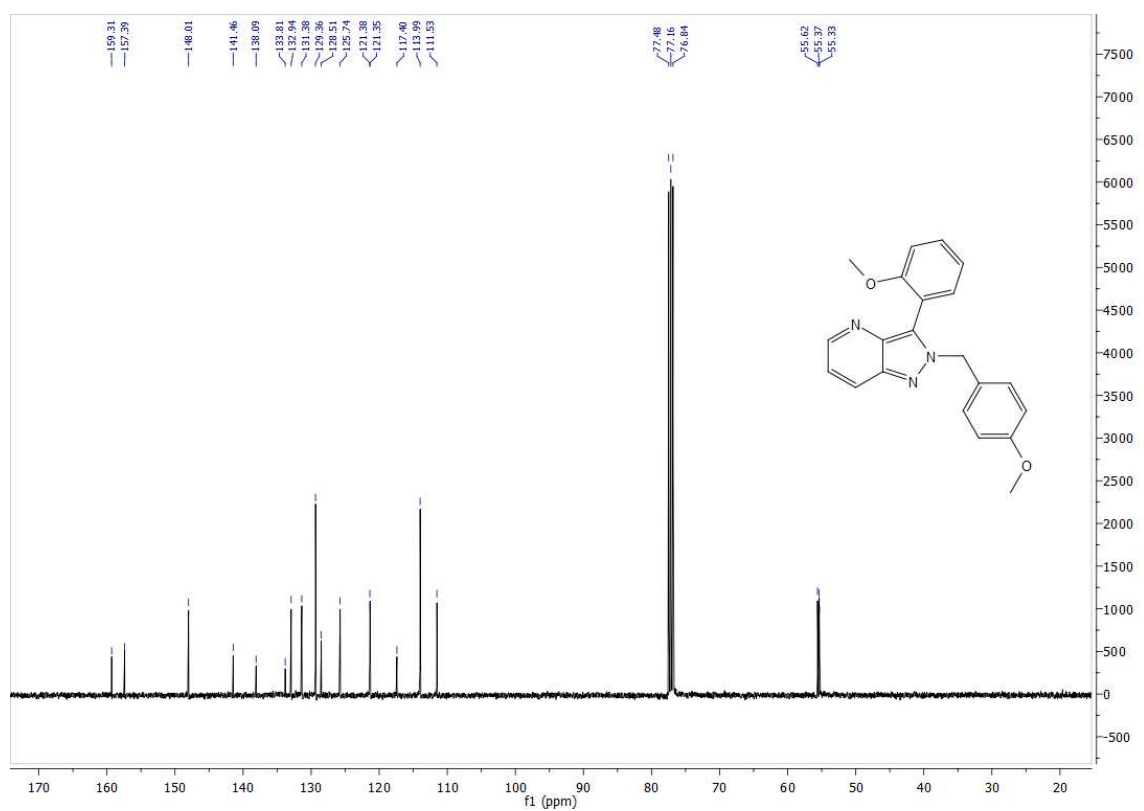
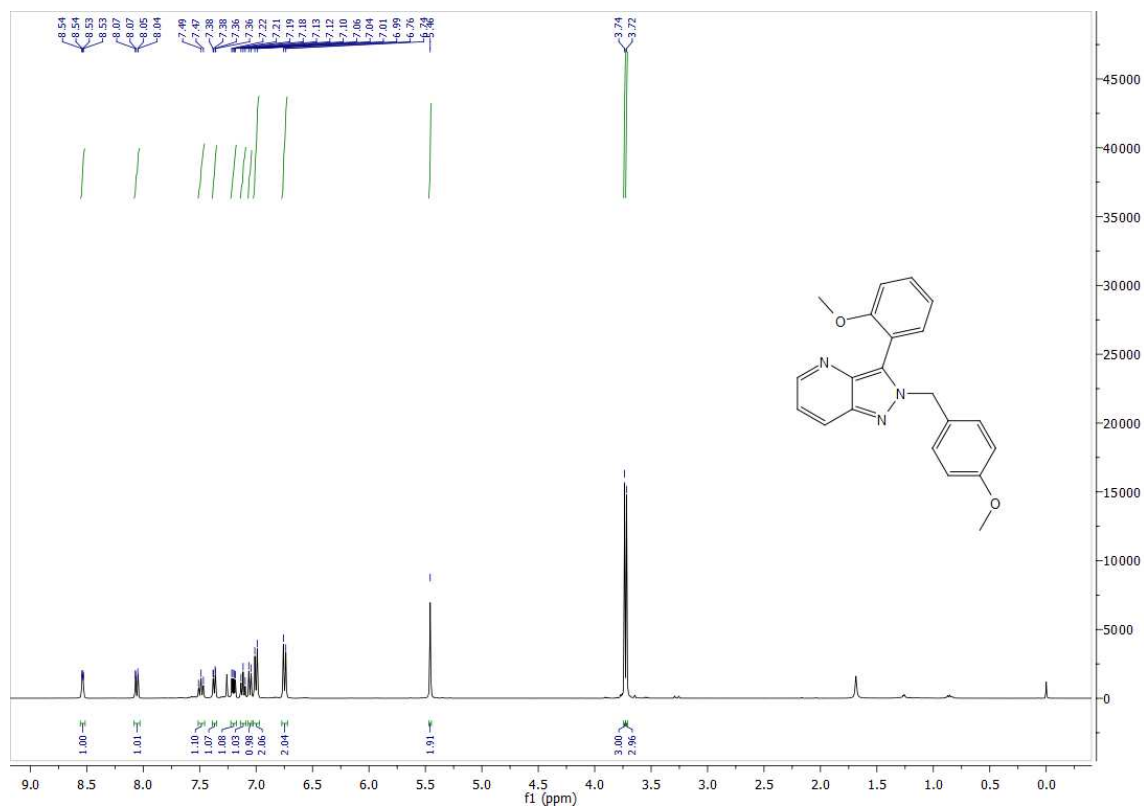
2-(4-Methoxybenzyl)-3-(4-methoxyphenyl)-2H-pyrazolo[4,3-b]pyridine **2d**



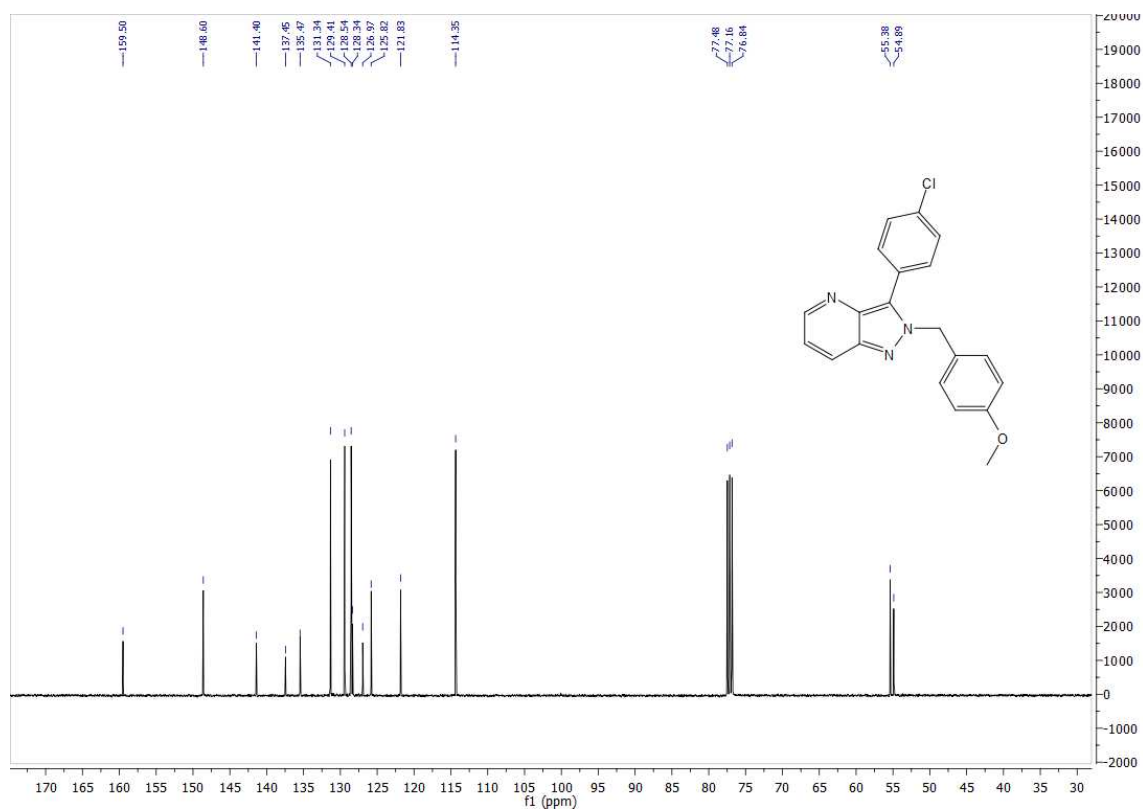
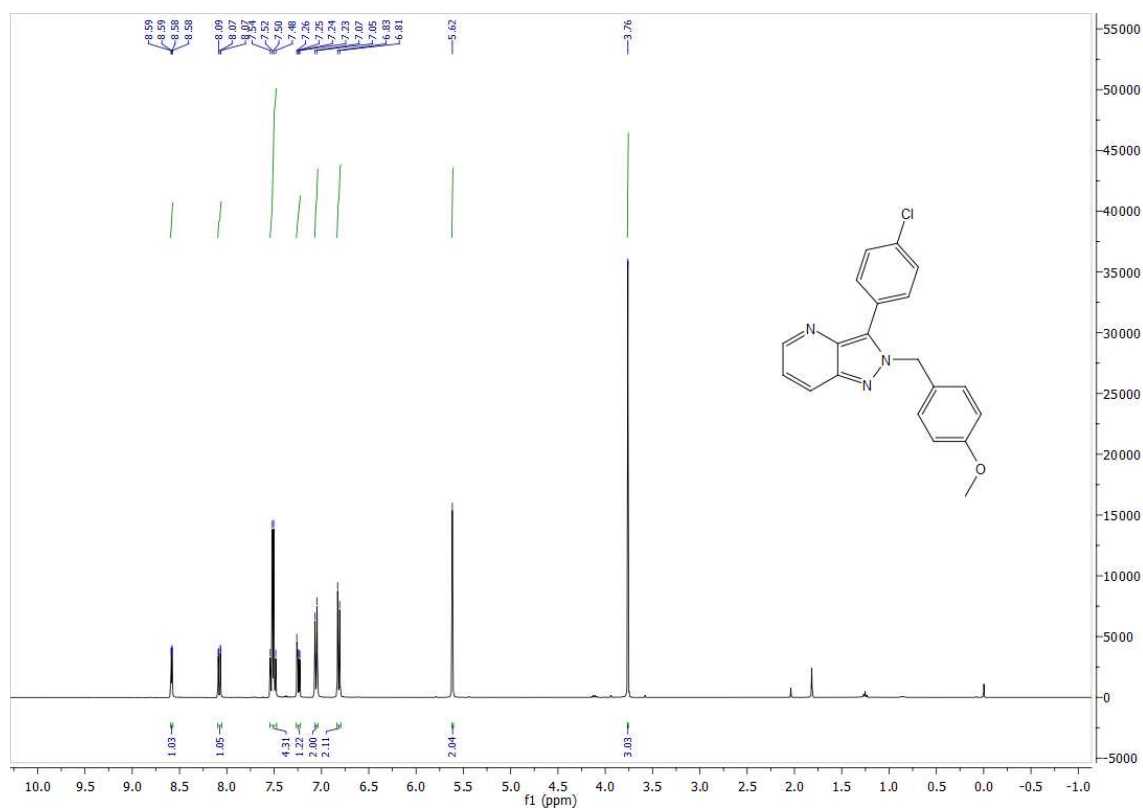
2-(4-Methoxybenzyl)-3-(3-methoxyphenyl)-2H-pyrazolo[4,3-b]pyridine **2e**



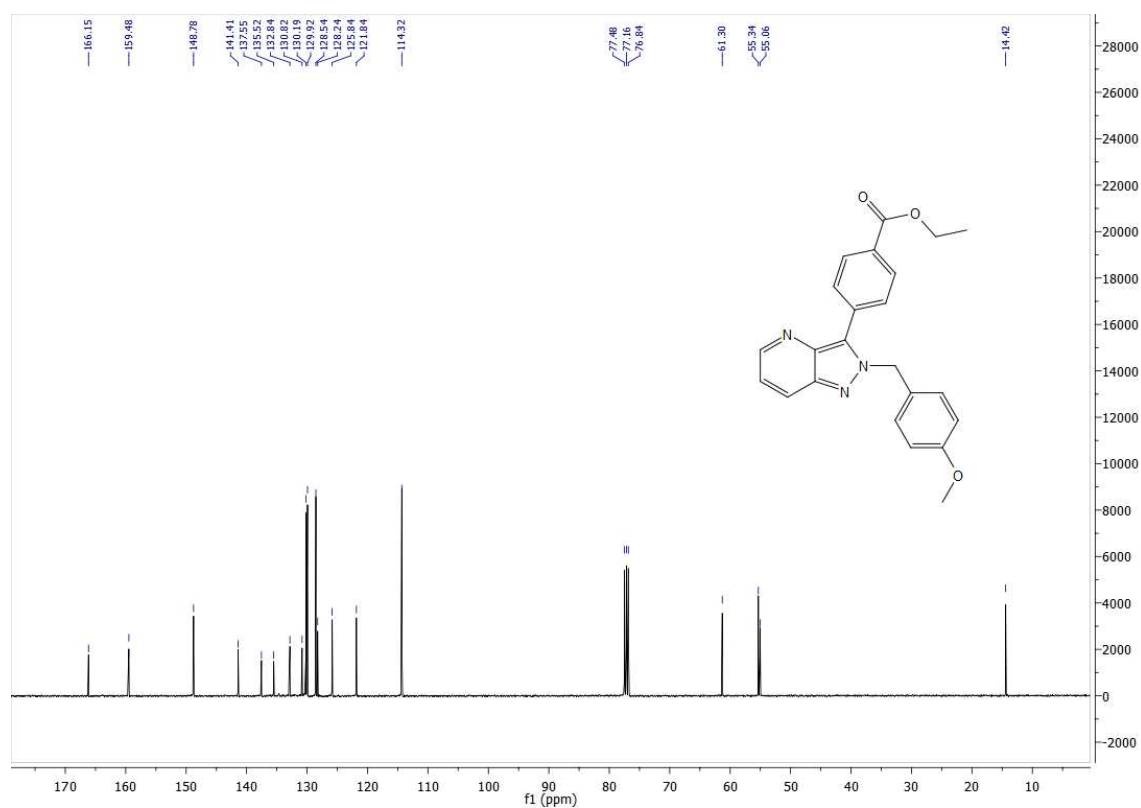
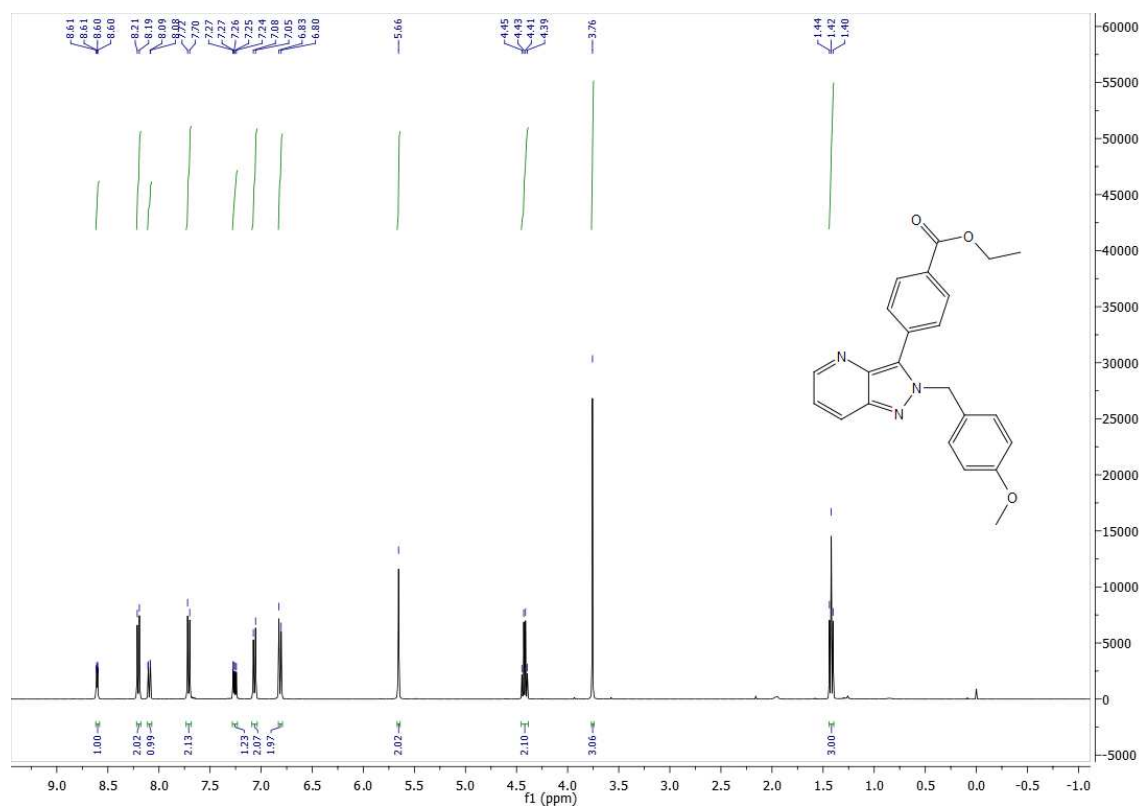
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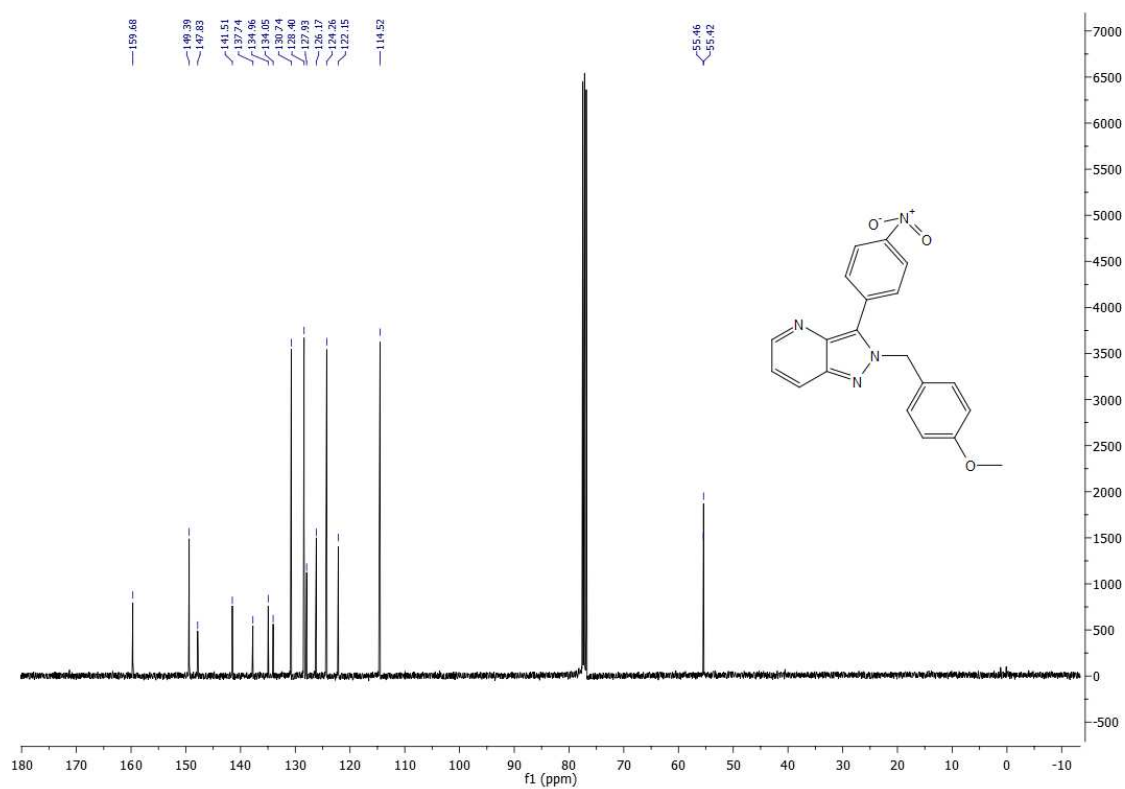
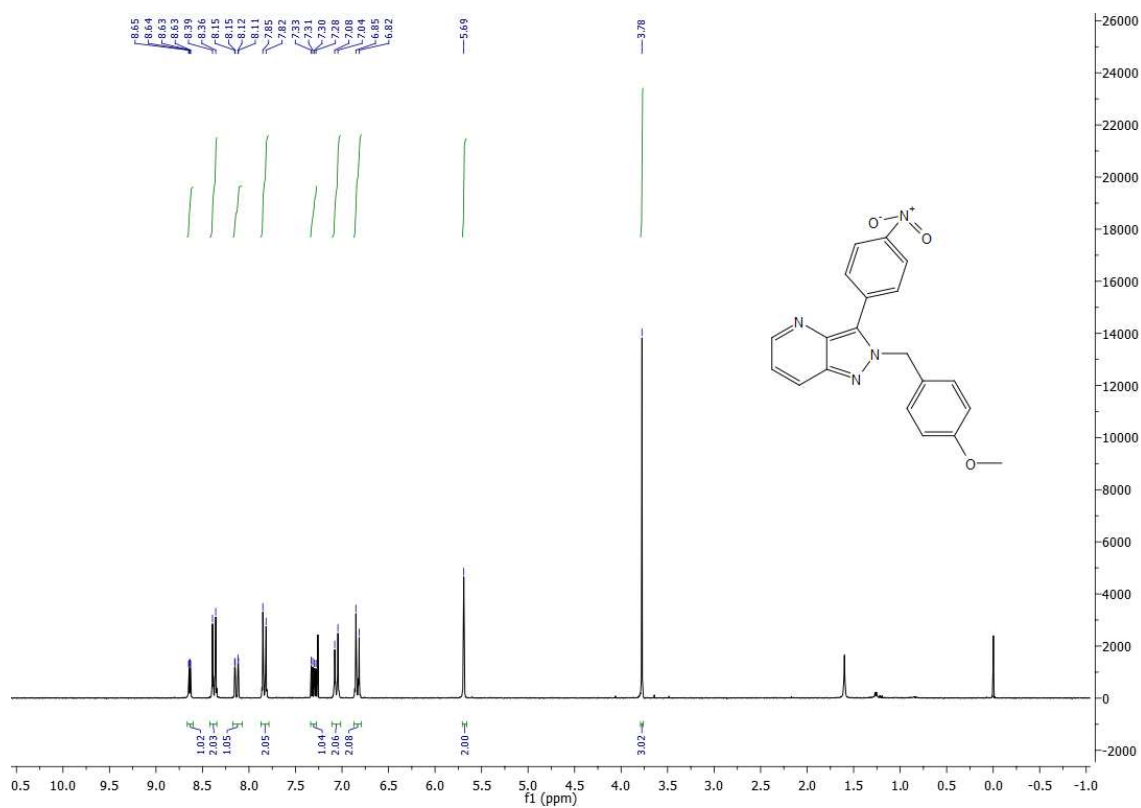
2-(4-Methoxybenzyl)-3-(4-chlorophenyl)-2H-pyrazolo[4,3-b]pyridine **2g**



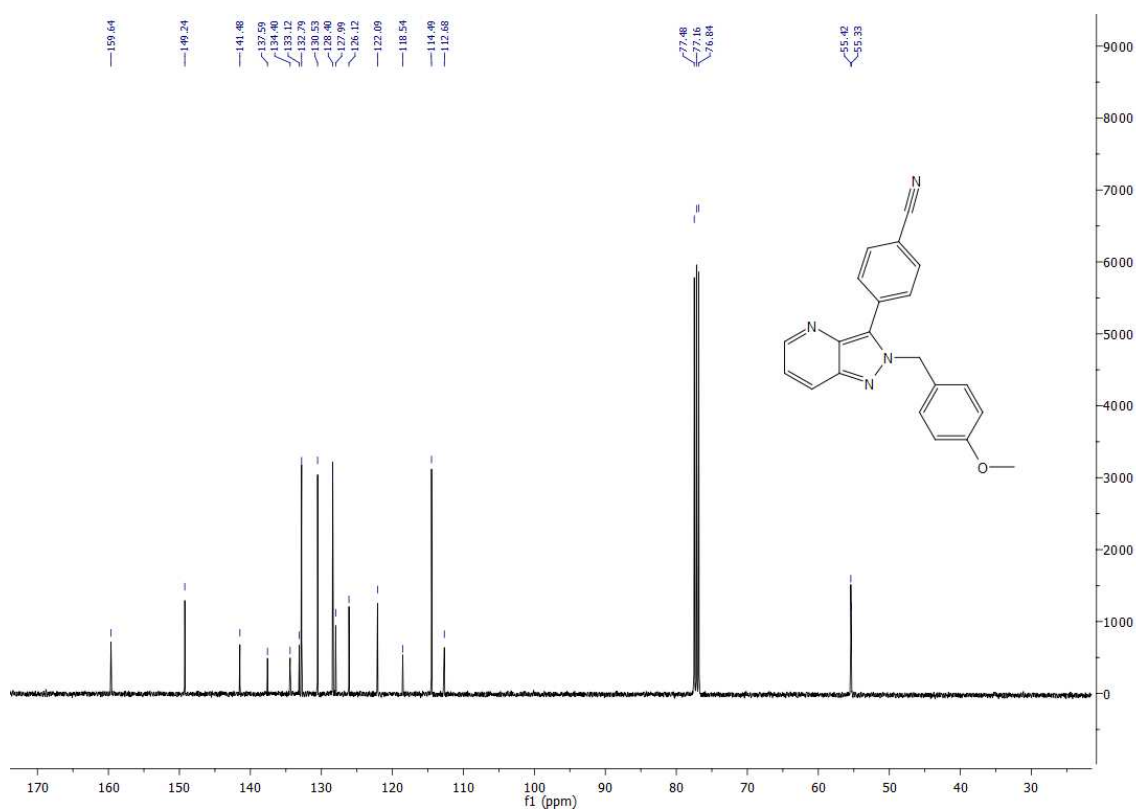
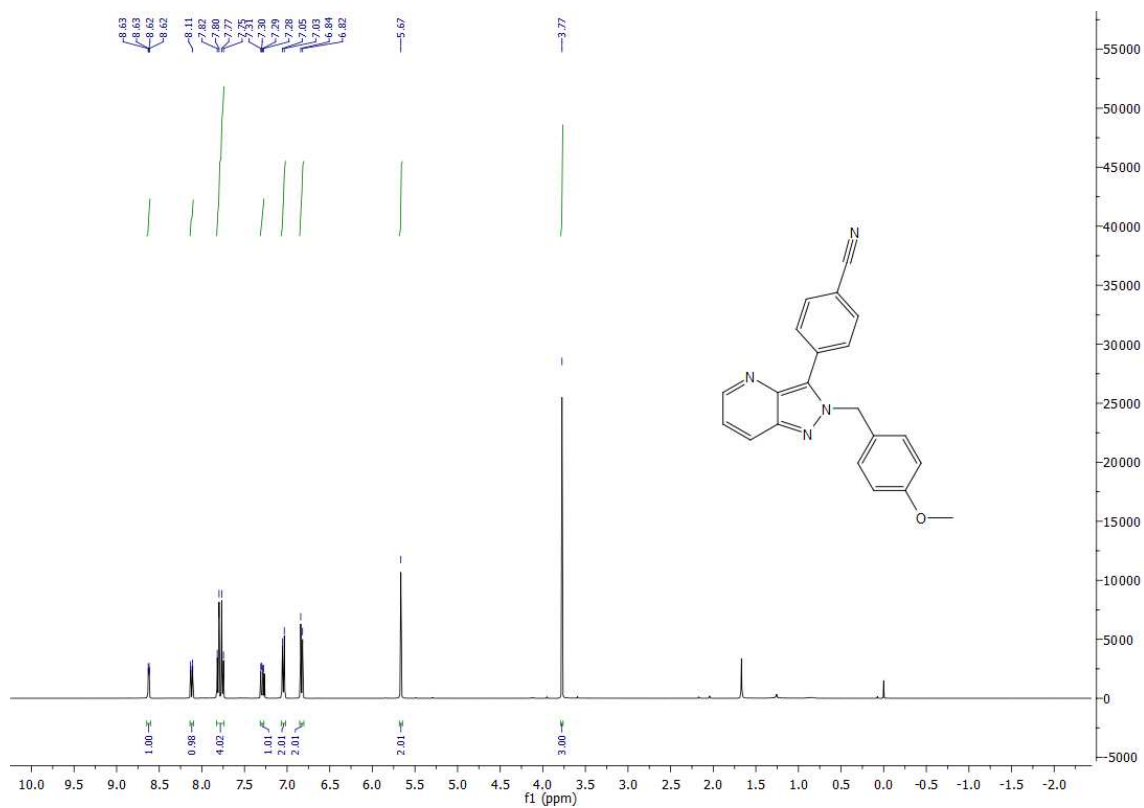
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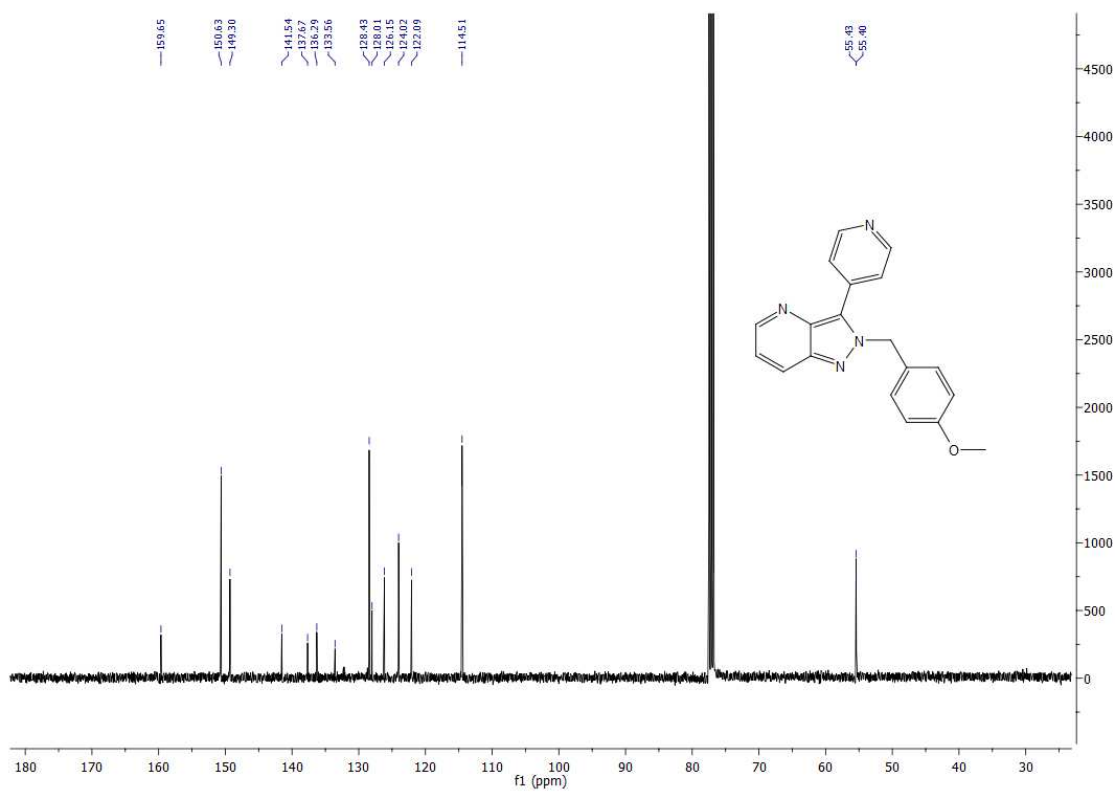
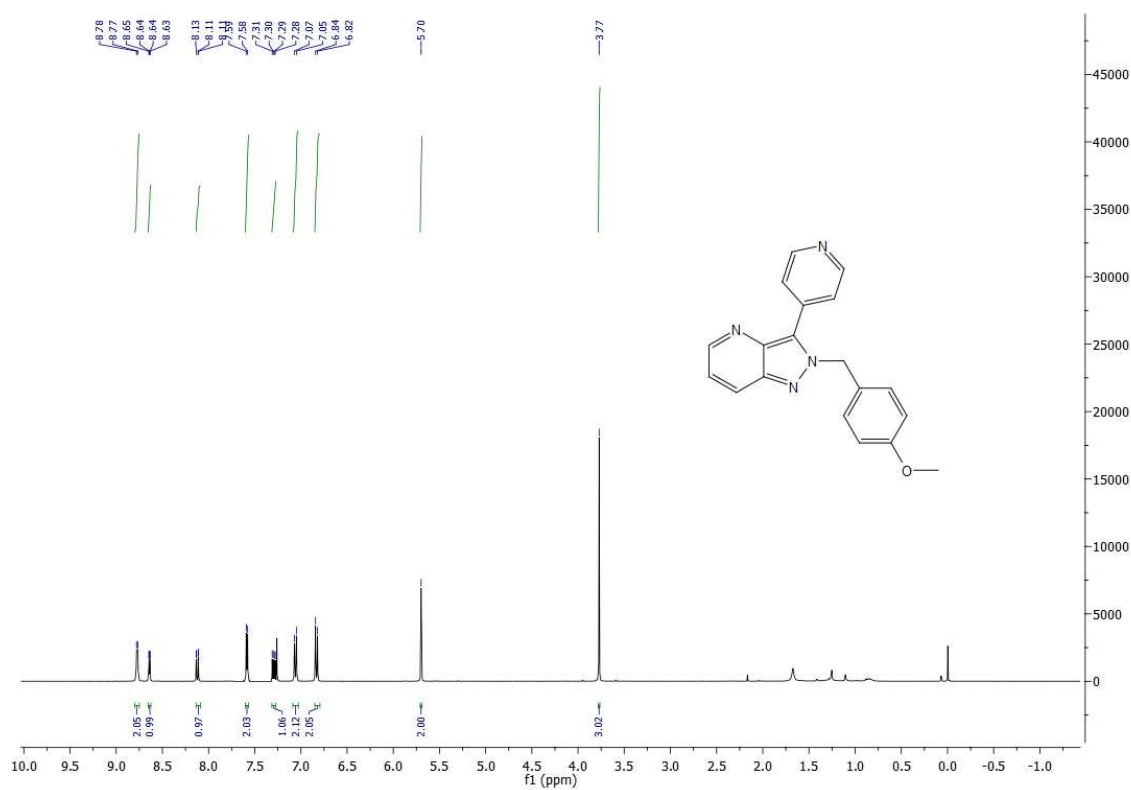
2-(4-Methoxybenzyl)-3-(4-nitrophenyl)-2H-pyrazolo[4,3-b]pyridine **2i**



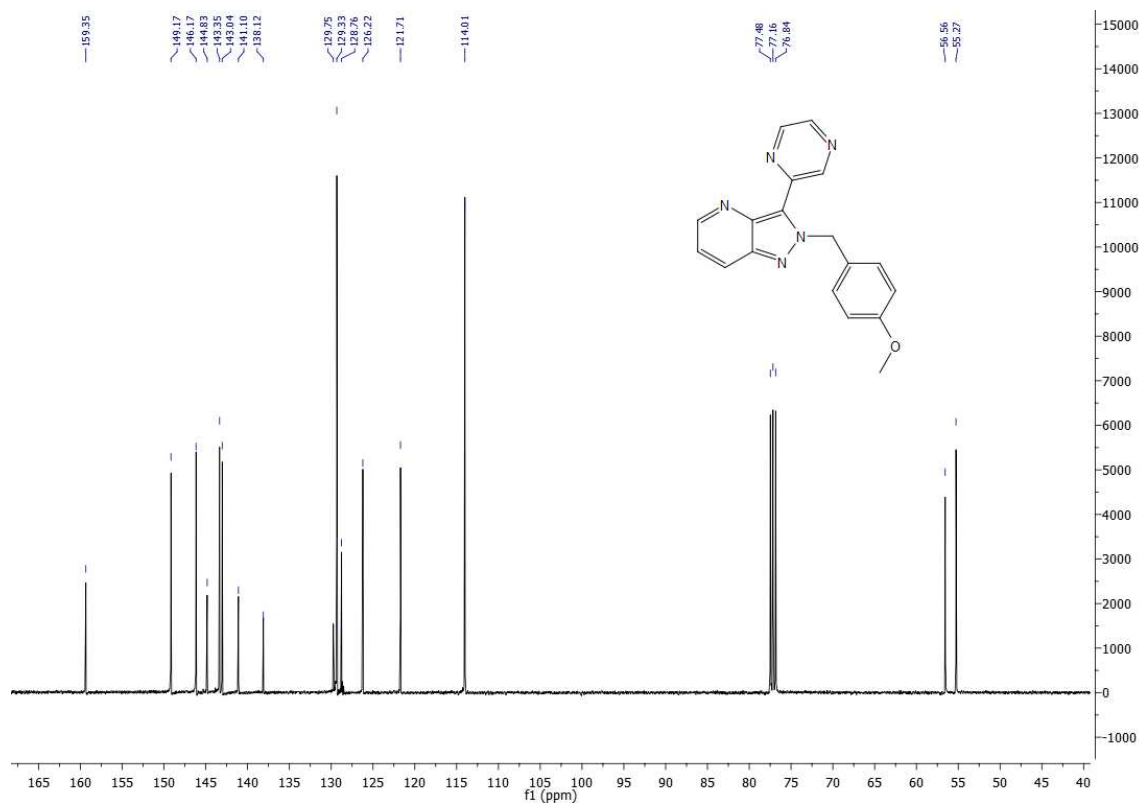
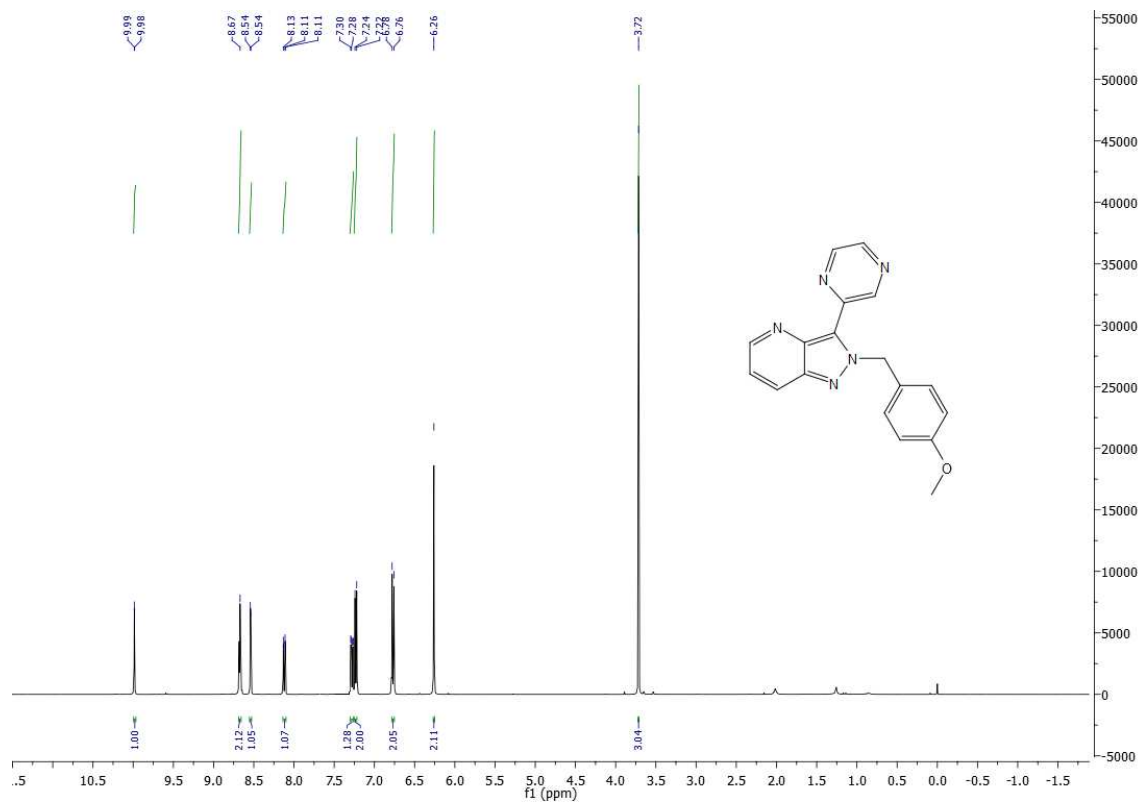
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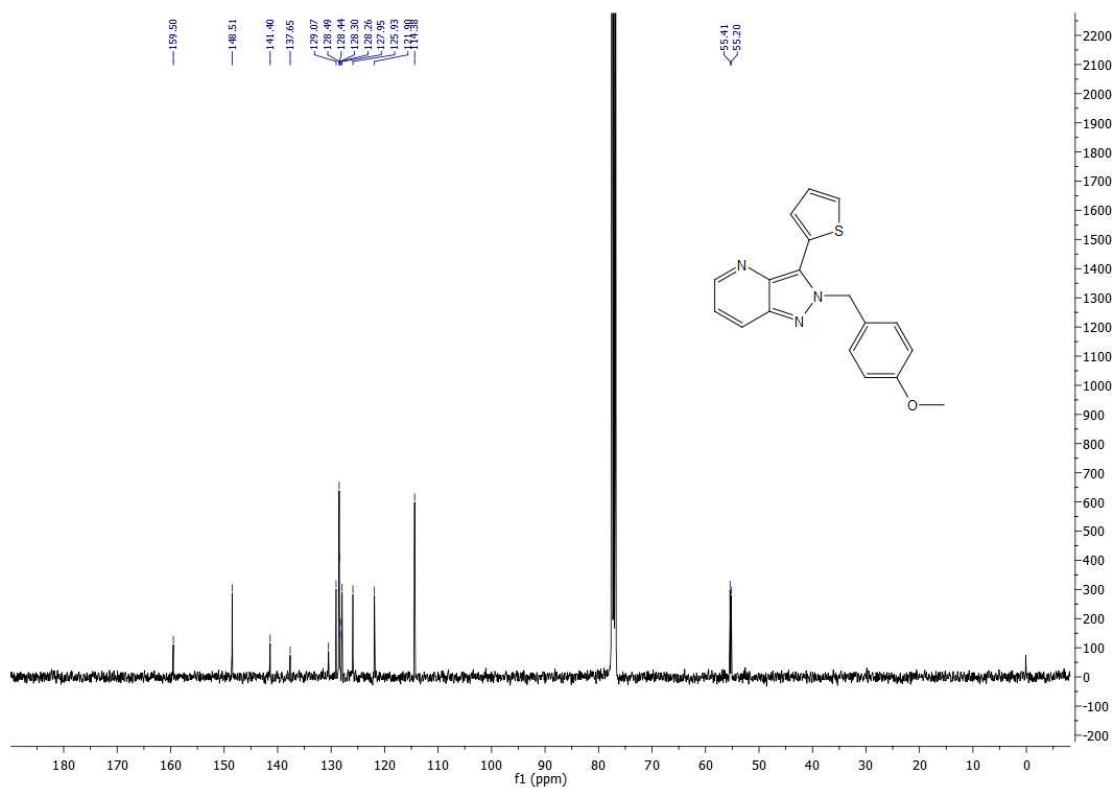
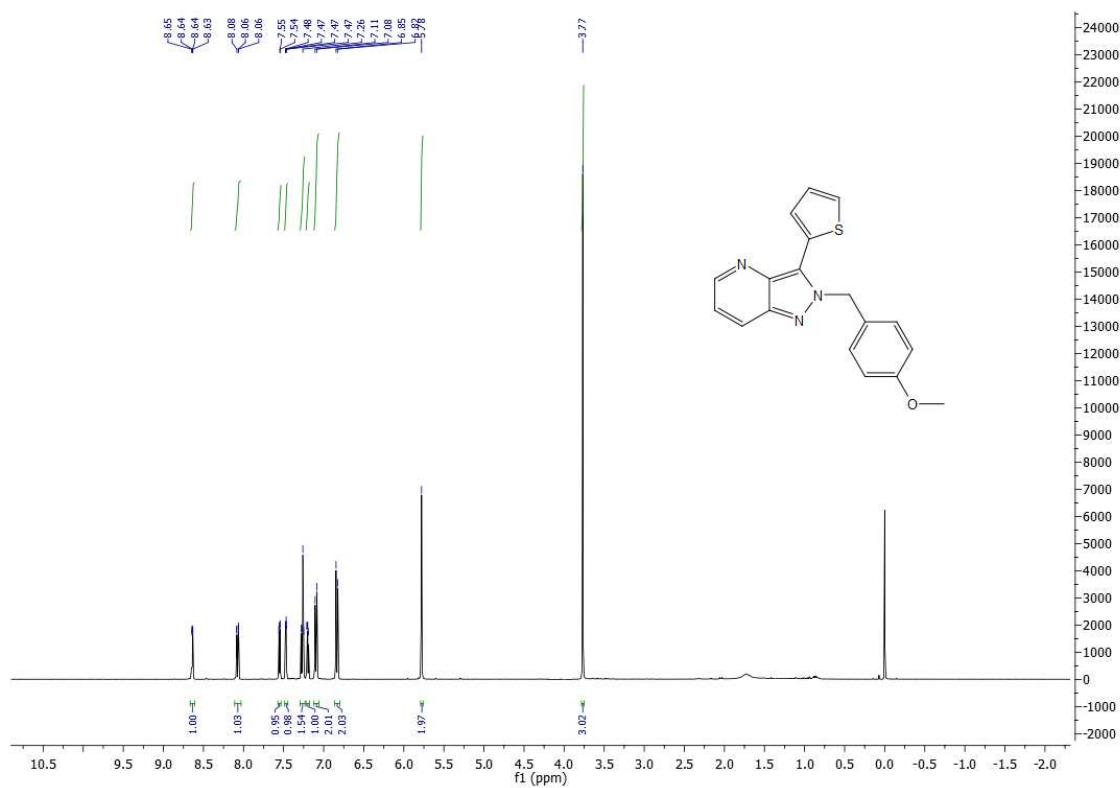
2-(4-Methoxybenzyl)-3-(pyridin-4-yl)-2H-pyrazolo[4,3-b]pyridine **2k**



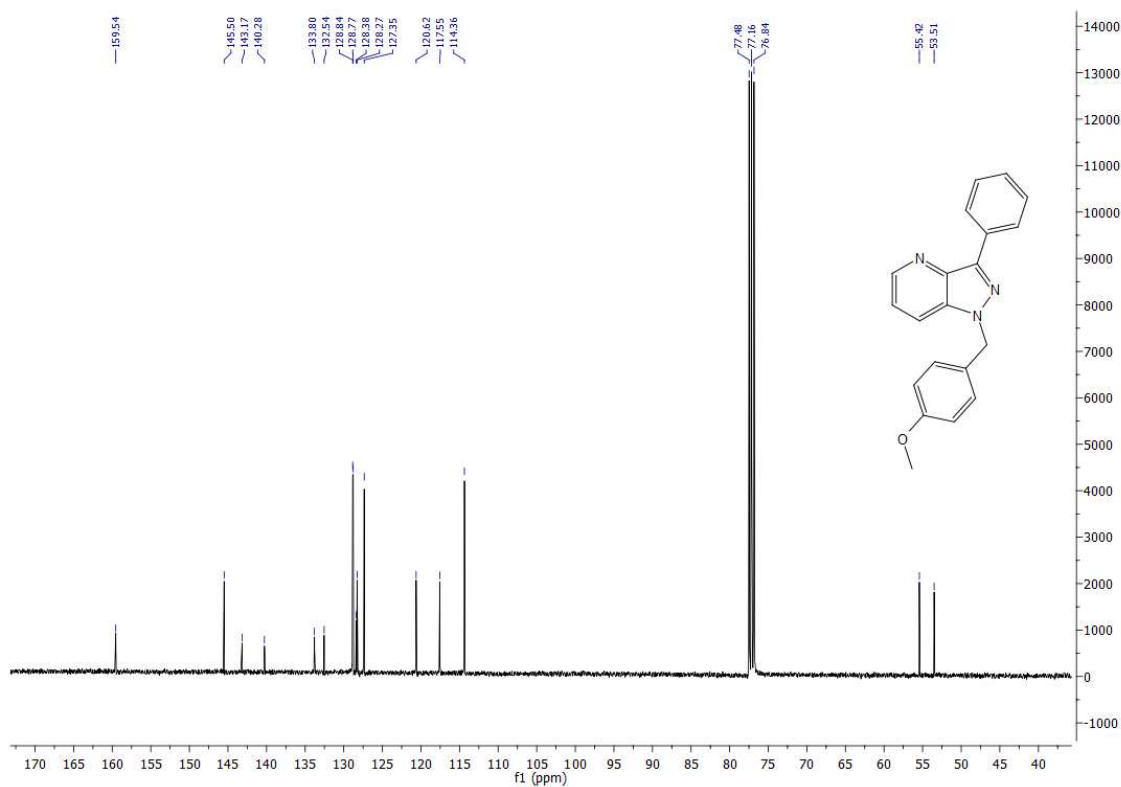
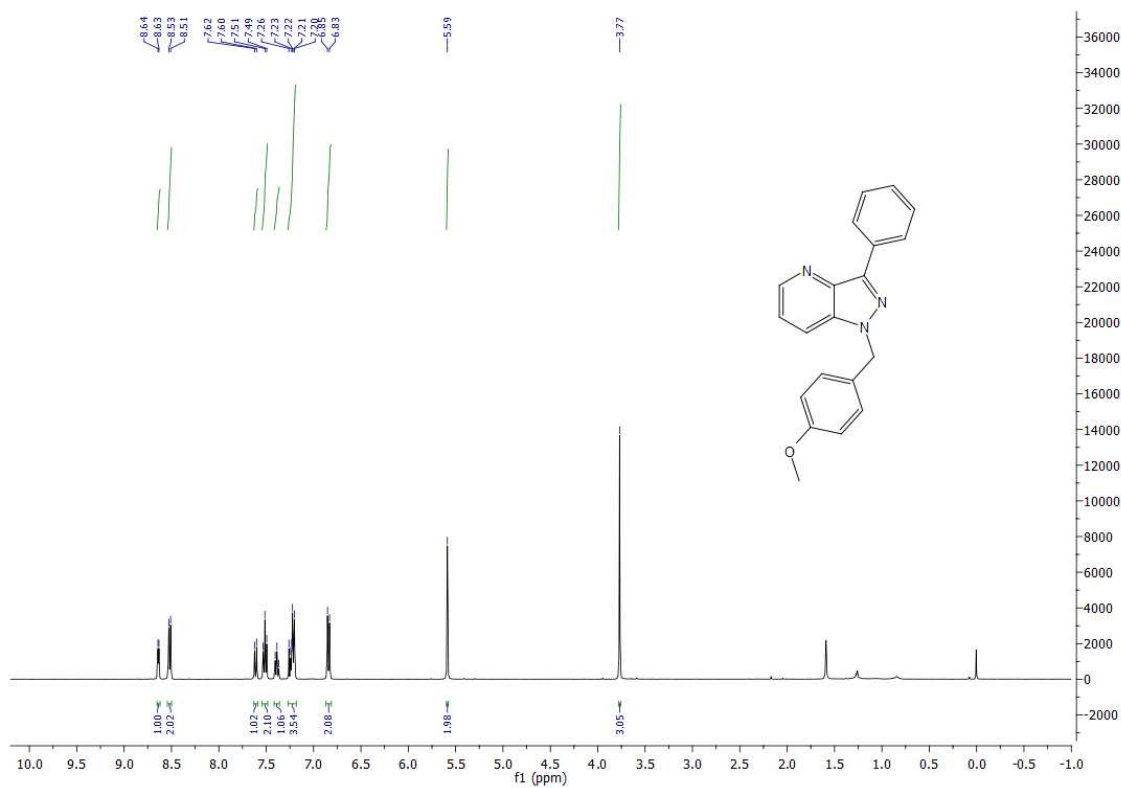
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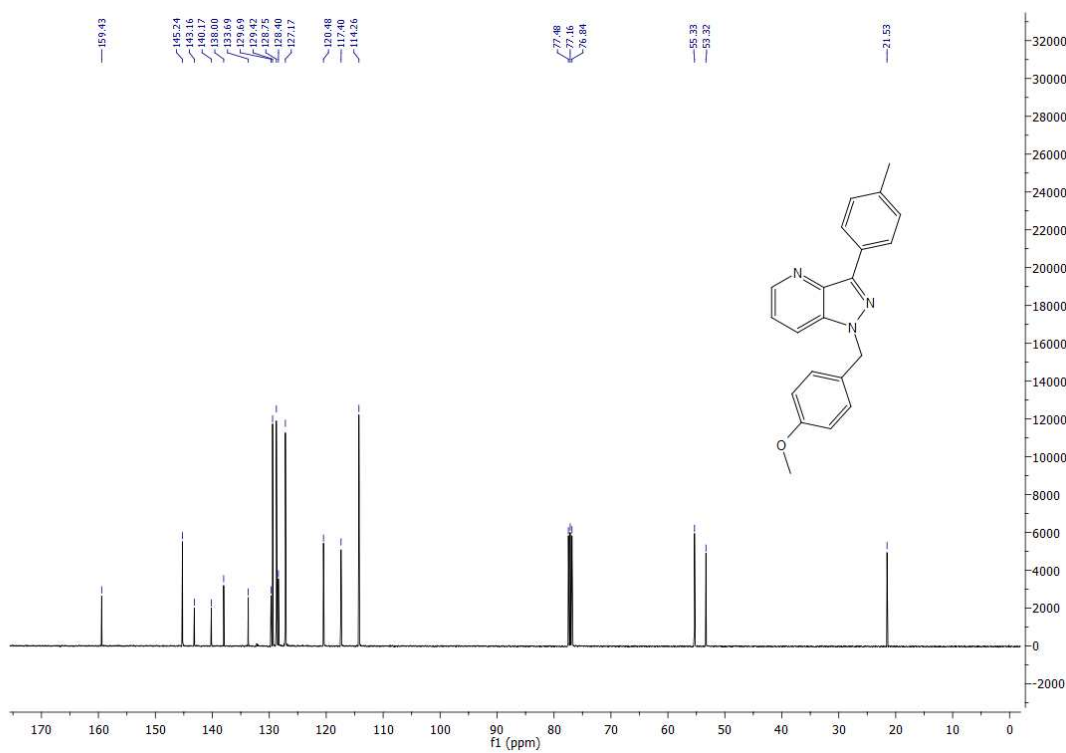
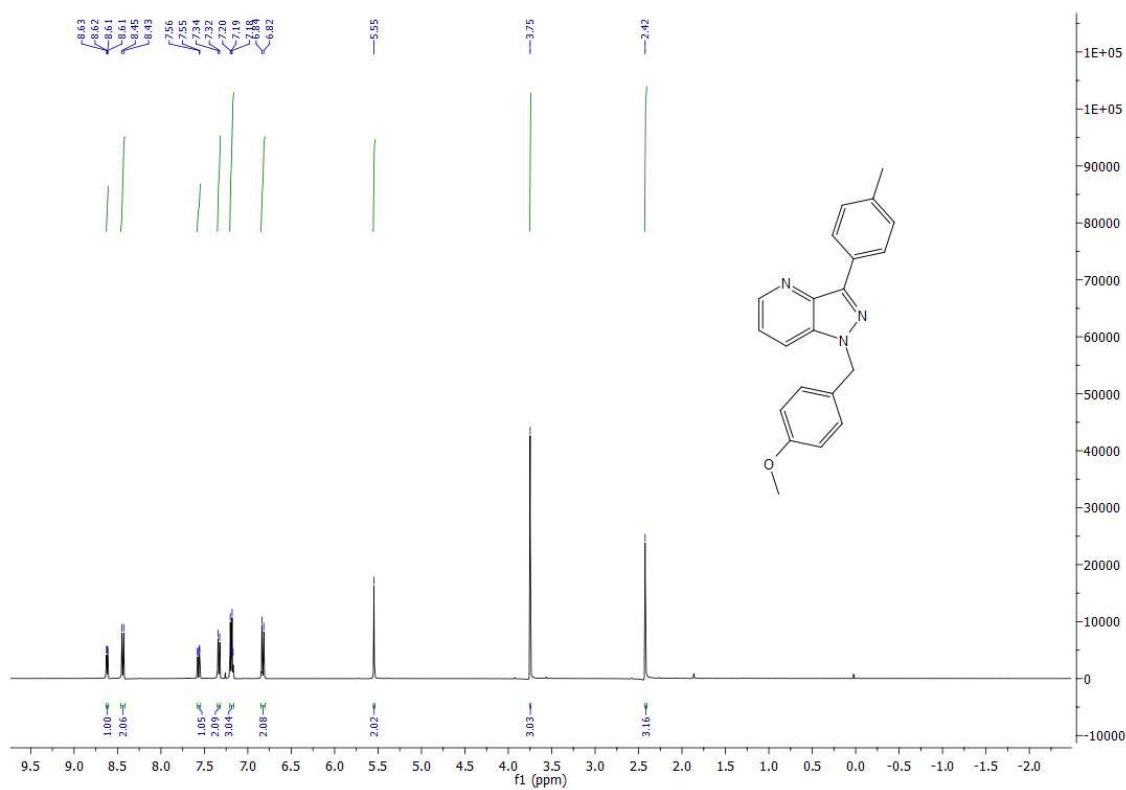
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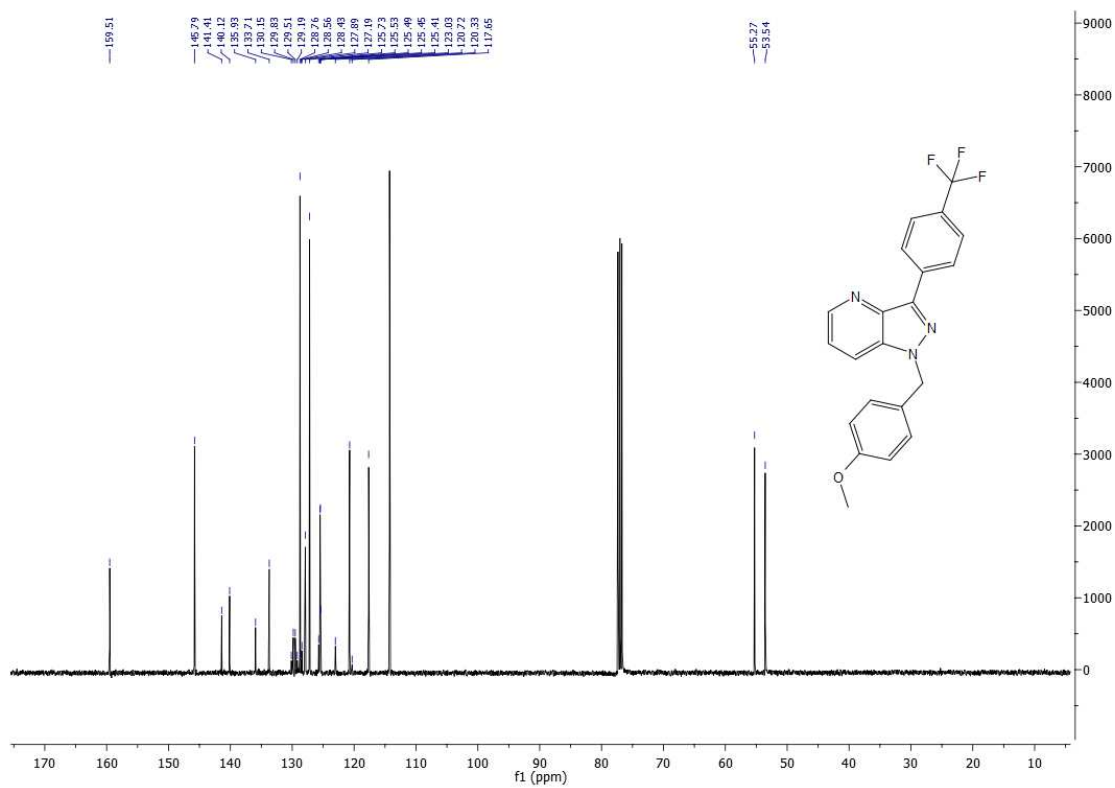
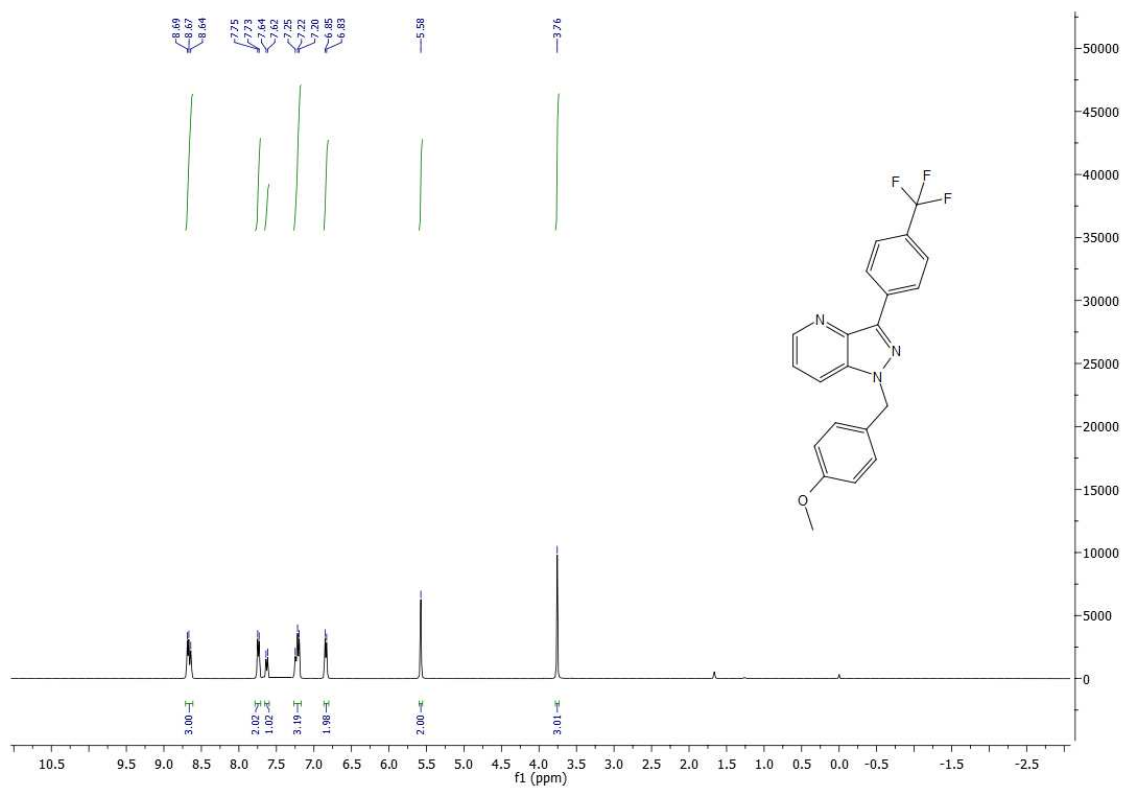
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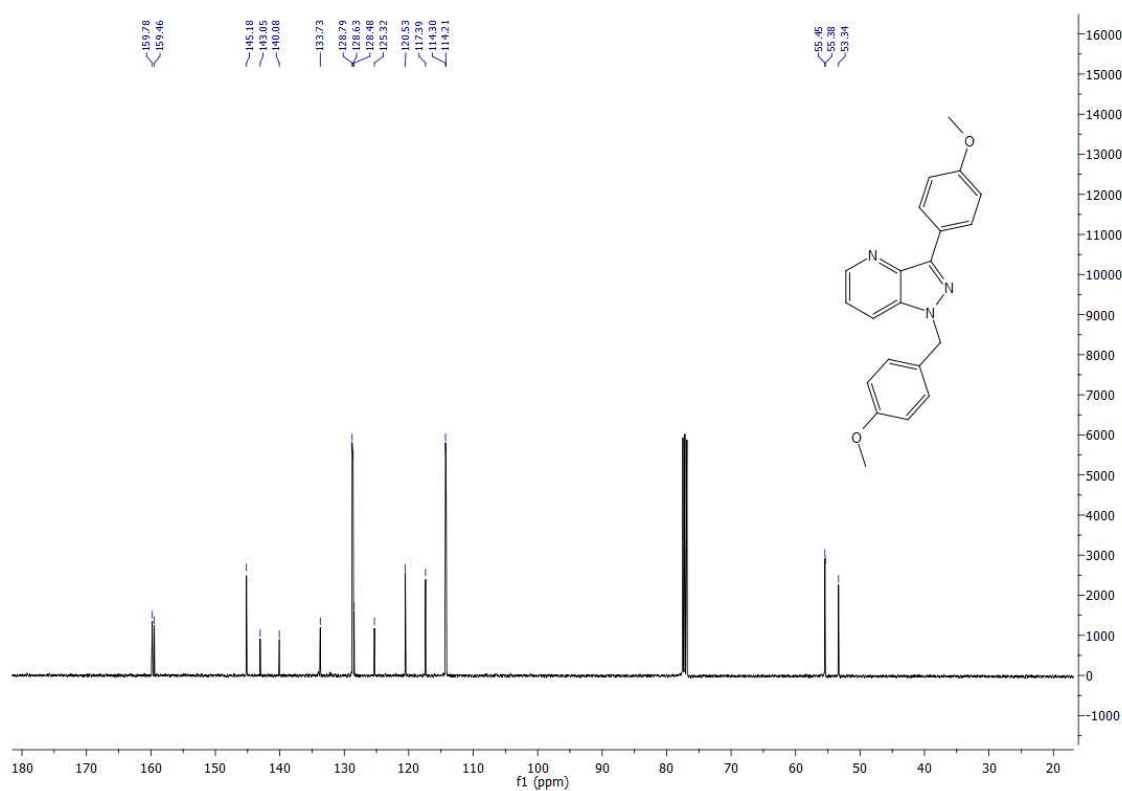
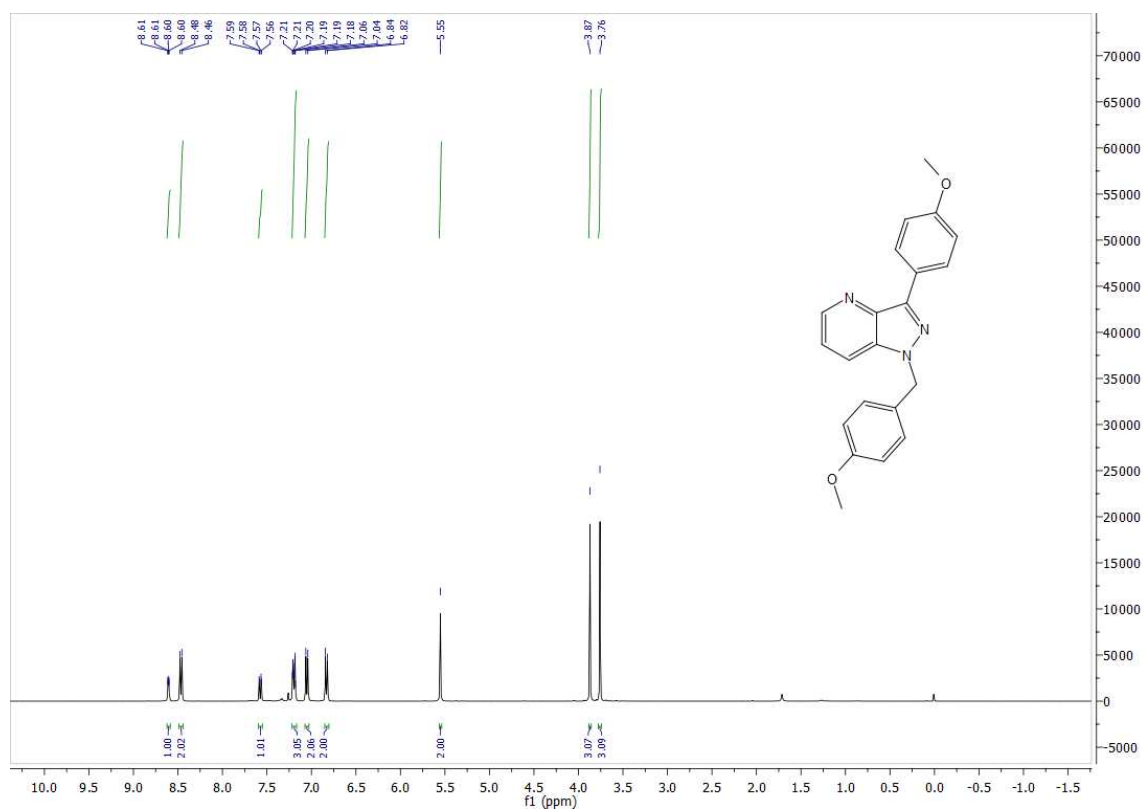
1-(4-Methoxybenzyl)-3-p-tolyl-1H-pyrazolo[4,3-b]pyridine **4b**



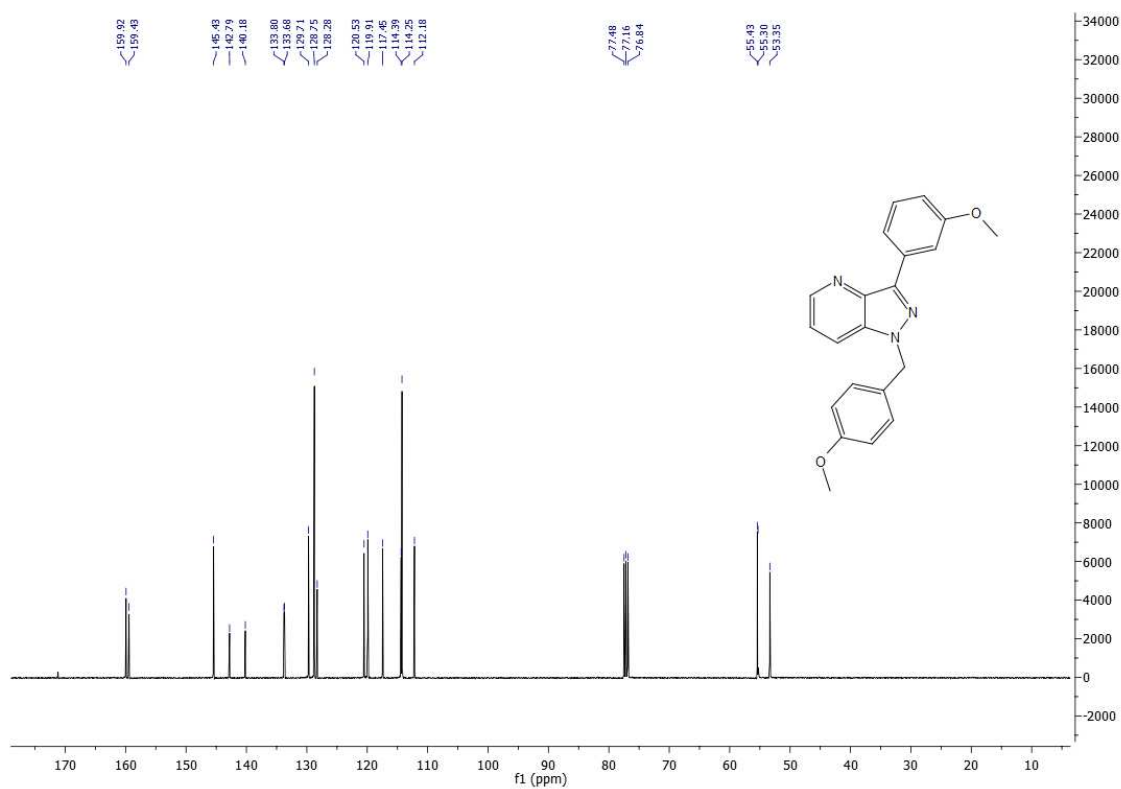
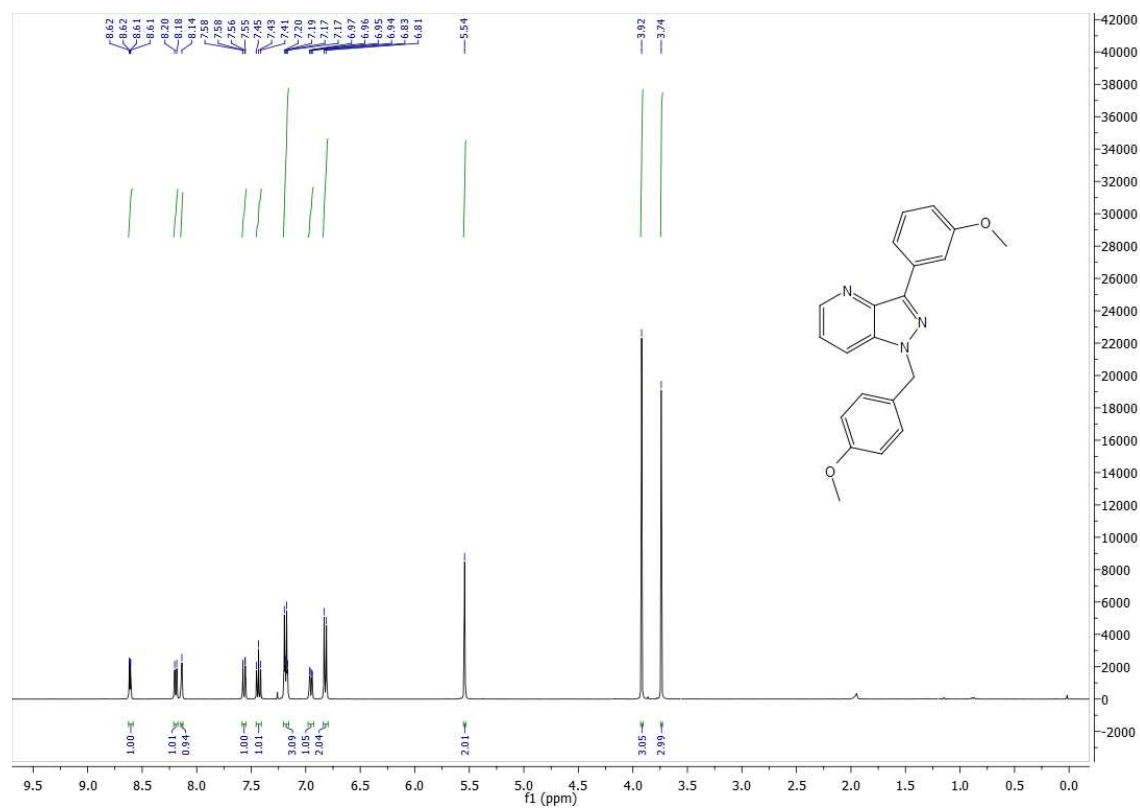
1-(4-Methoxybenzyl)-3-(4-(trifluoromethyl)phenyl)-1H-pyrazolo[4,3-b]pyridine **4c**



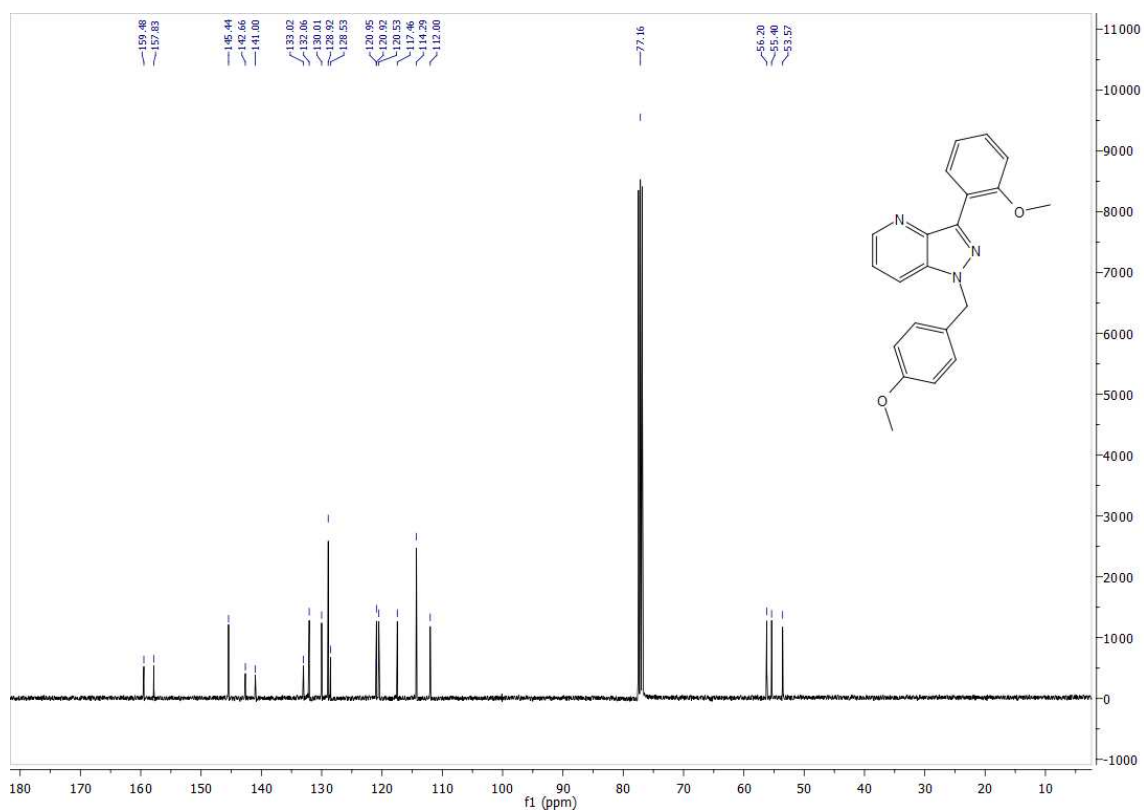
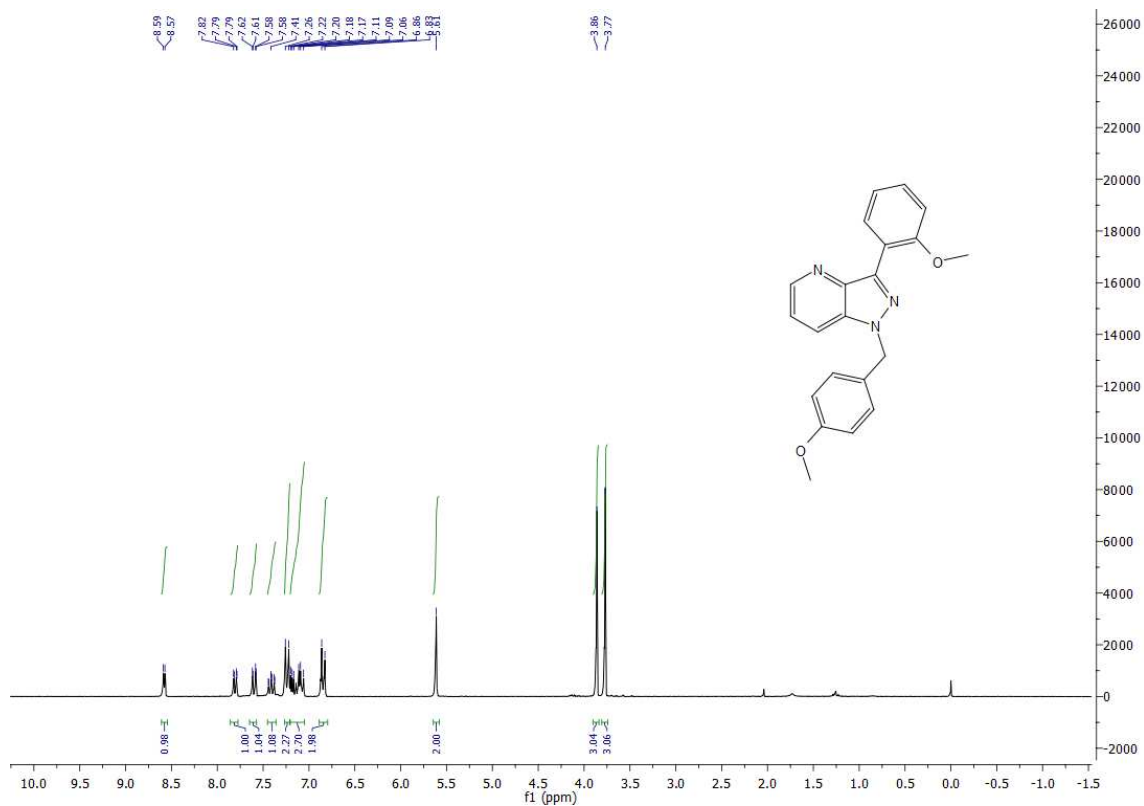
1-(4-Methoxybenzyl)-3-(4-methoxyphenyl)-1H-pyrazolo[4,3-b]pyridine **4d**



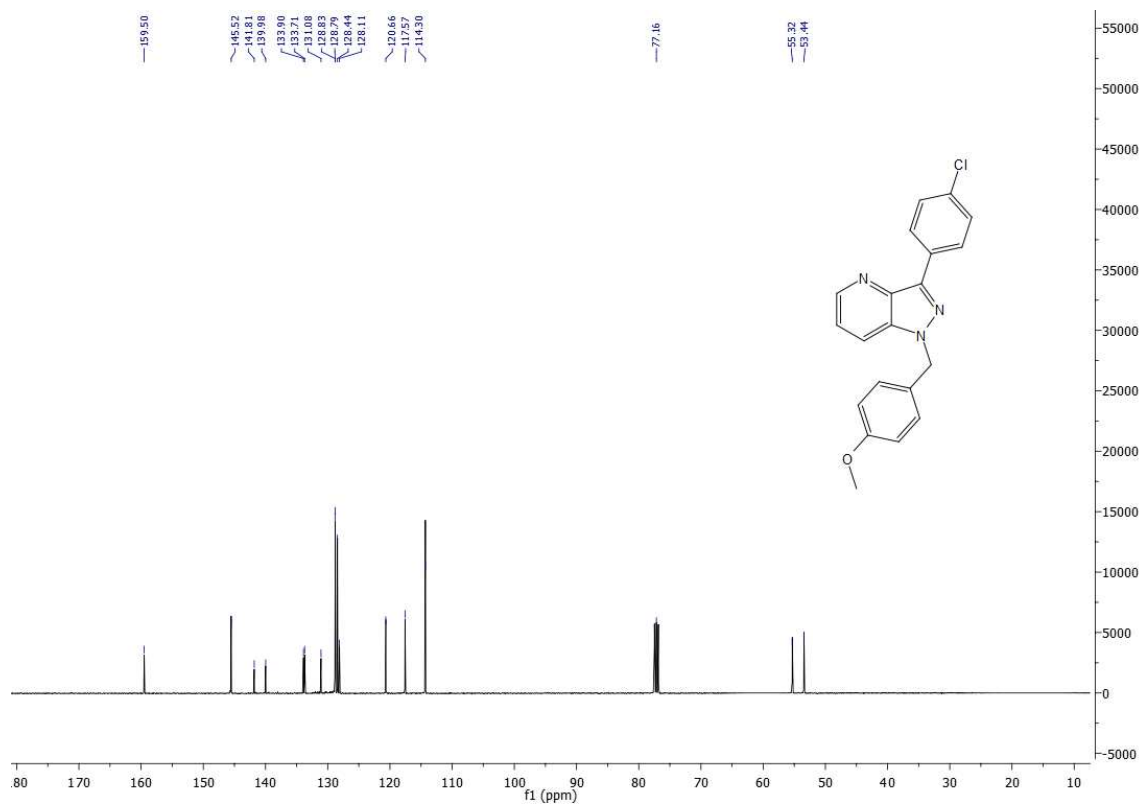
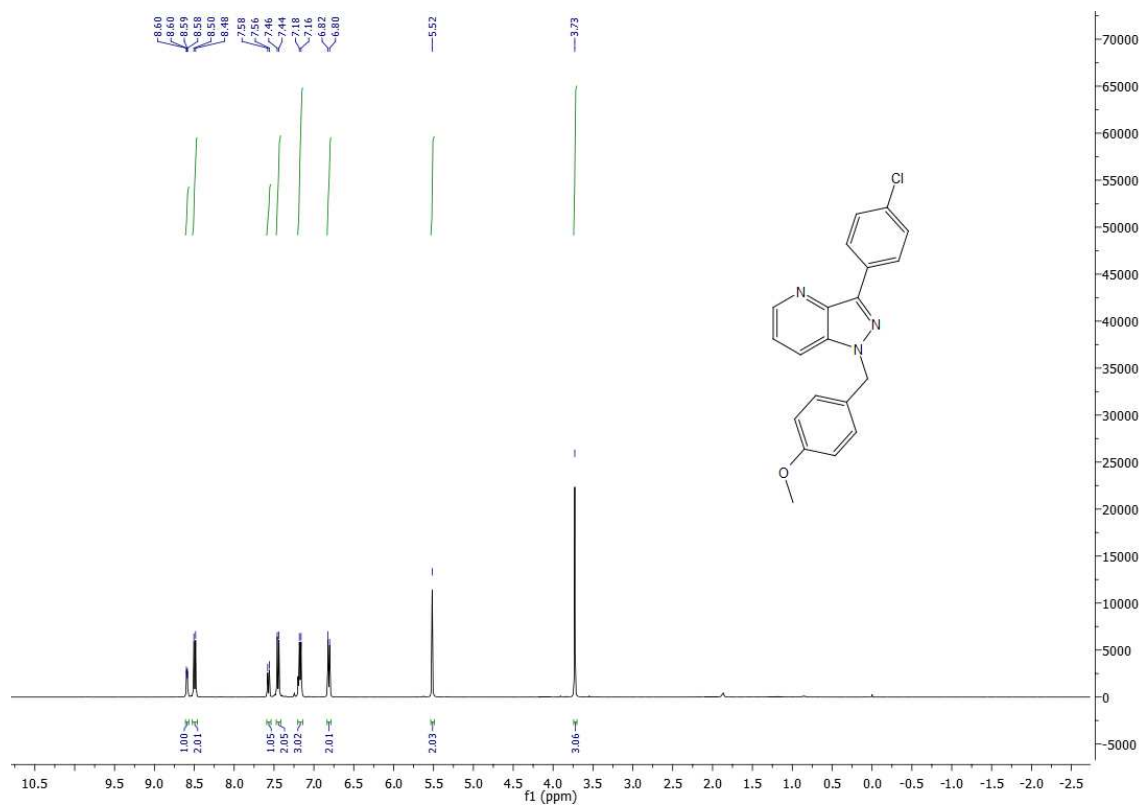
1-(4-Methoxybenzyl)-3-(3-methoxyphenyl)-1H-pyrazolo[4,3-b]pyridine **4e**



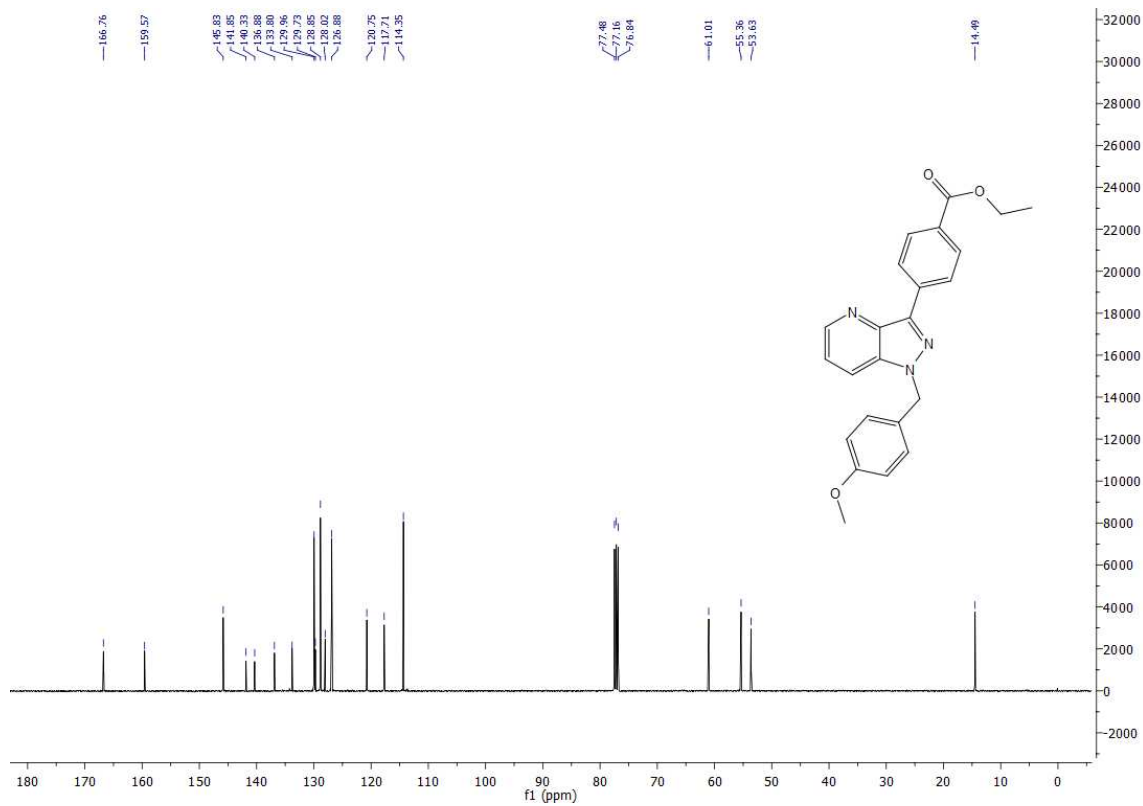
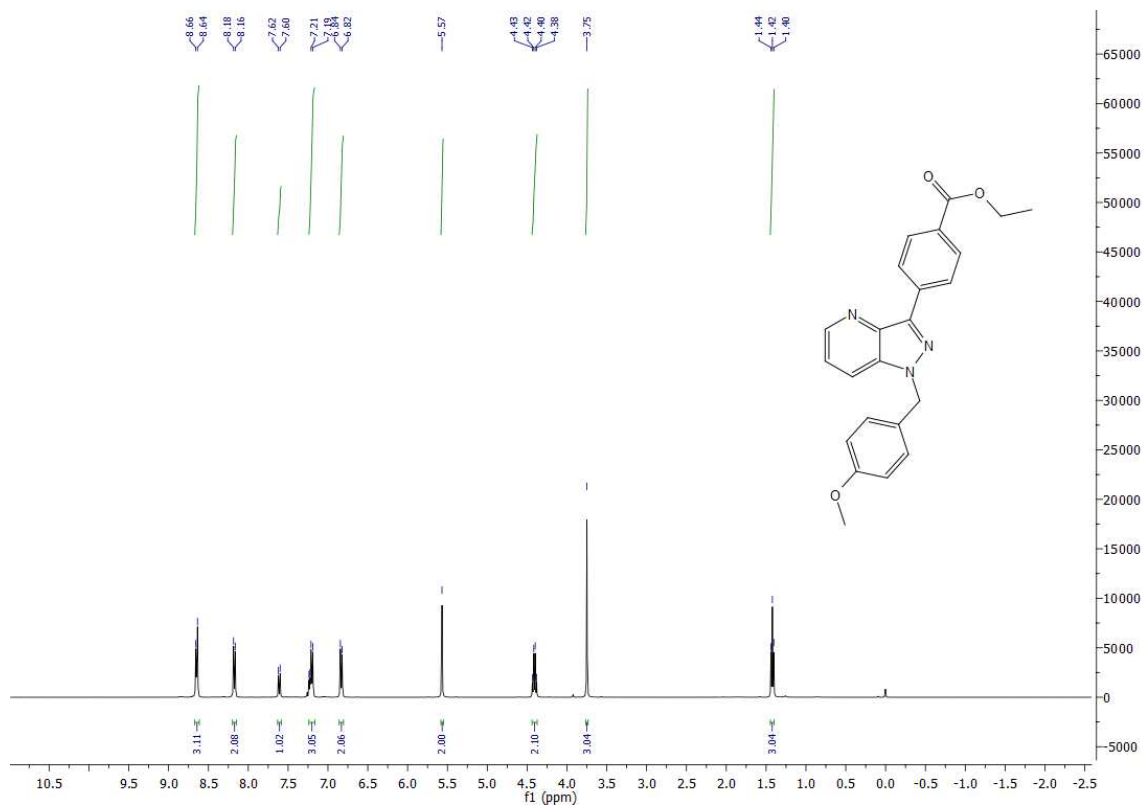
1-(4-Methoxybenzyl)-3-(2-methoxyphenyl)-1H-pyrazolo[4,3-b]pyridine **4f**



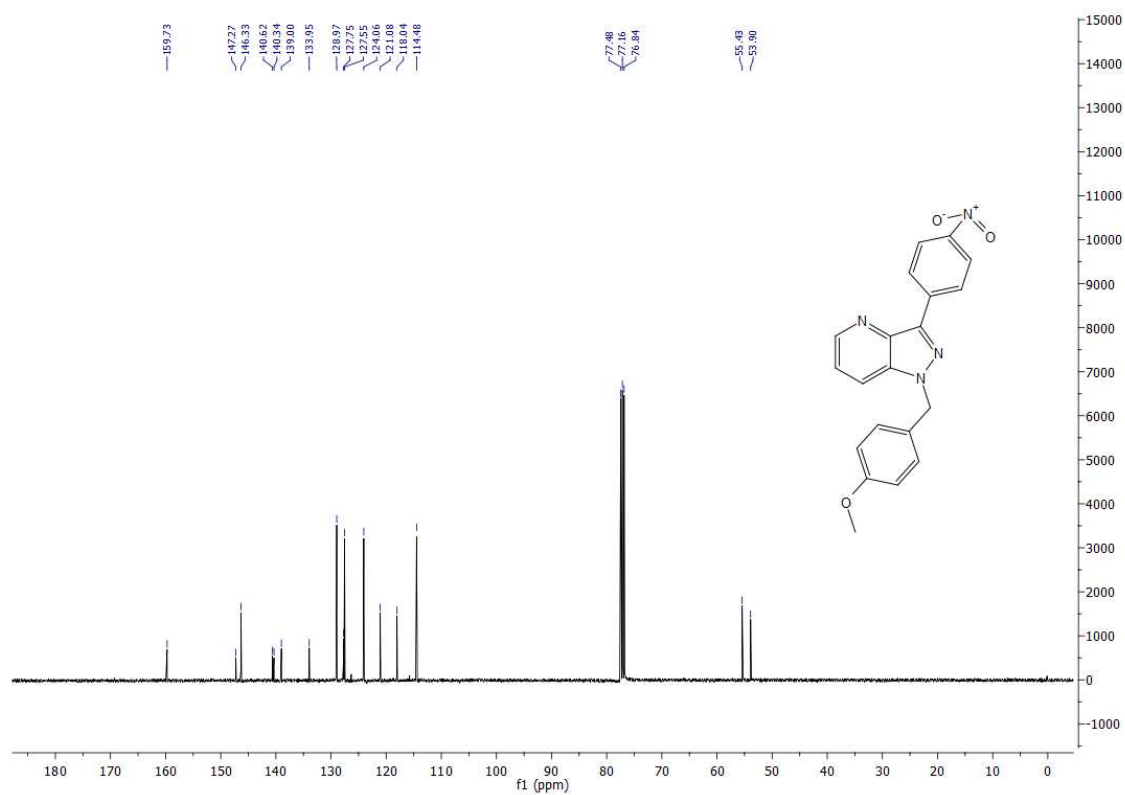
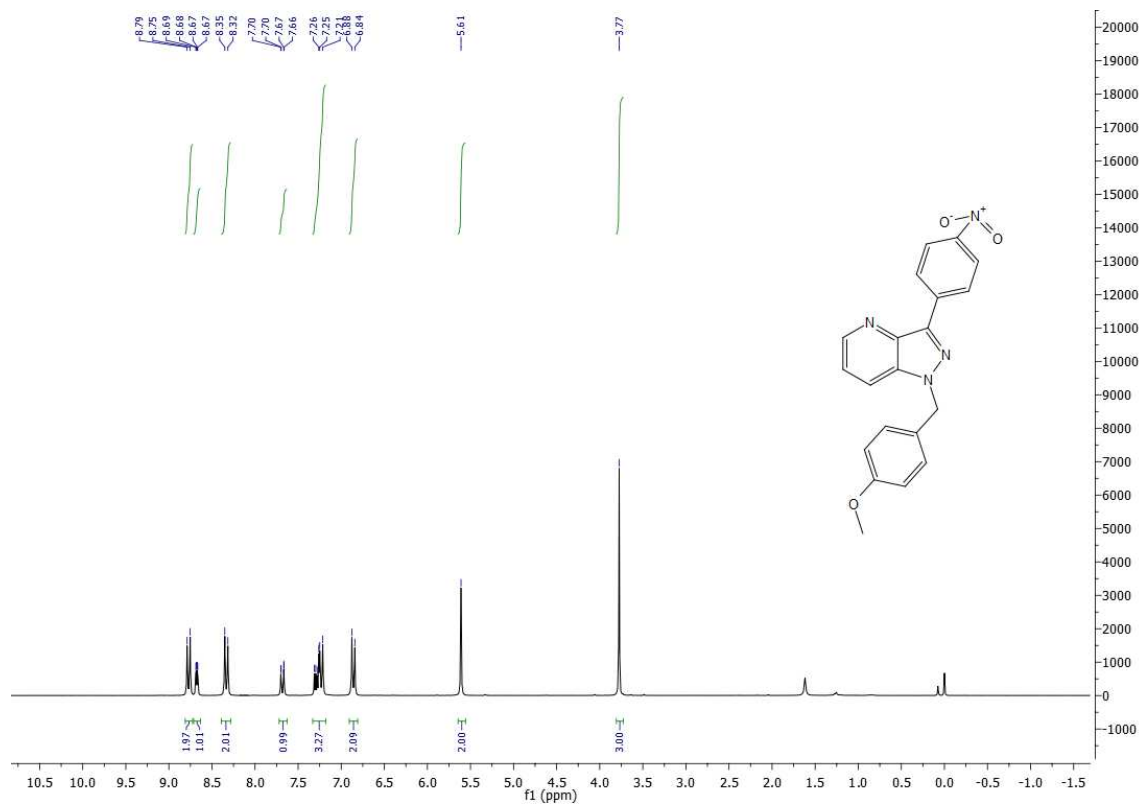
1-(4-Methoxybenzyl)-3-(4-chlorophenyl)-1H-pyrazolo[4,3-b]pyridine **4g**



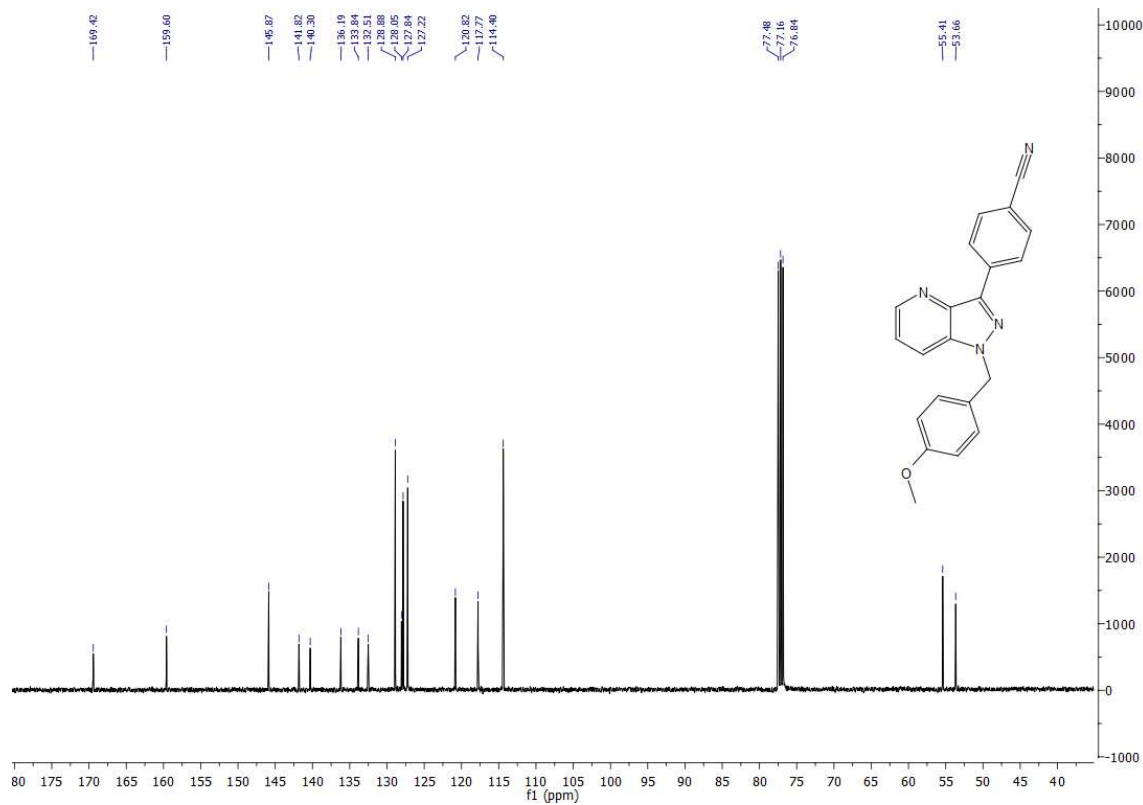
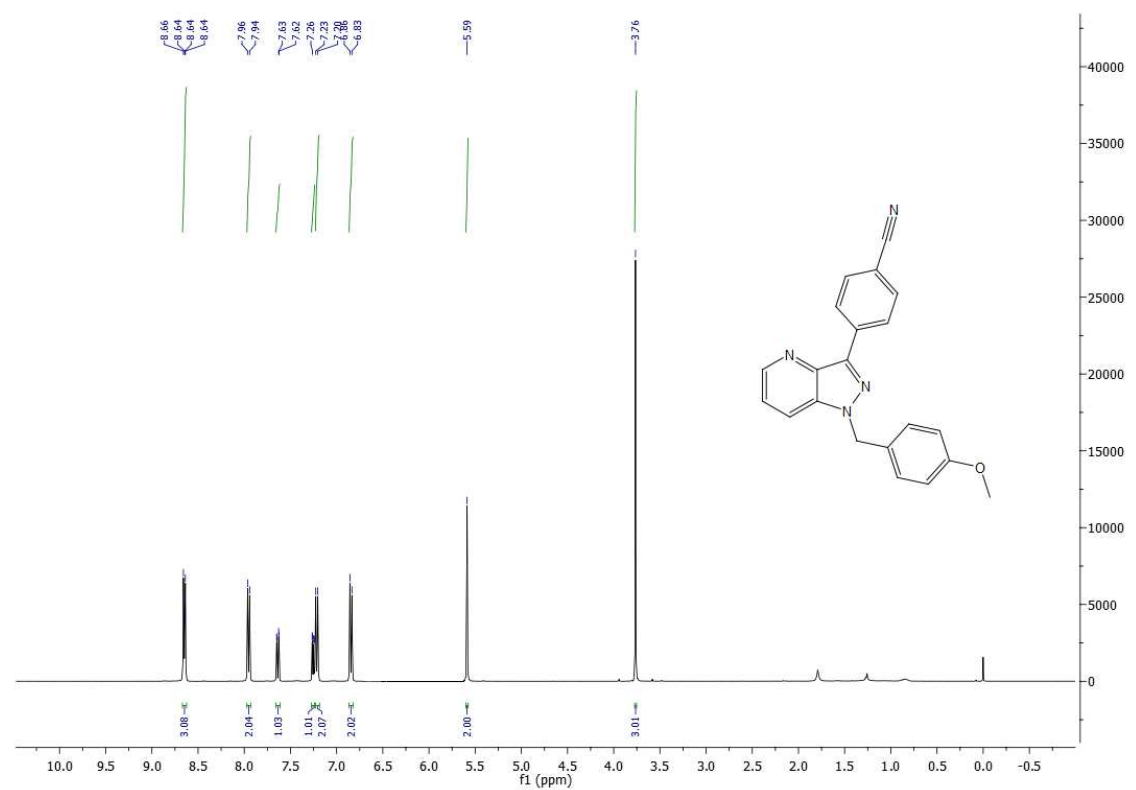
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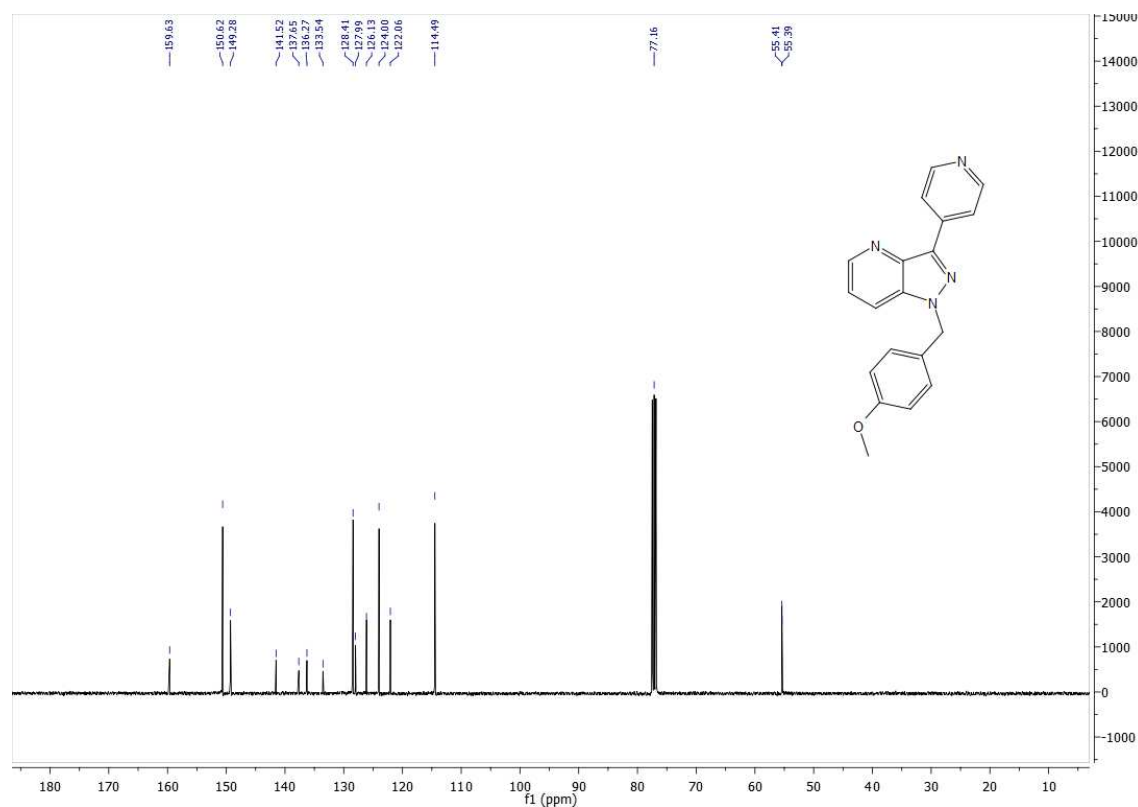
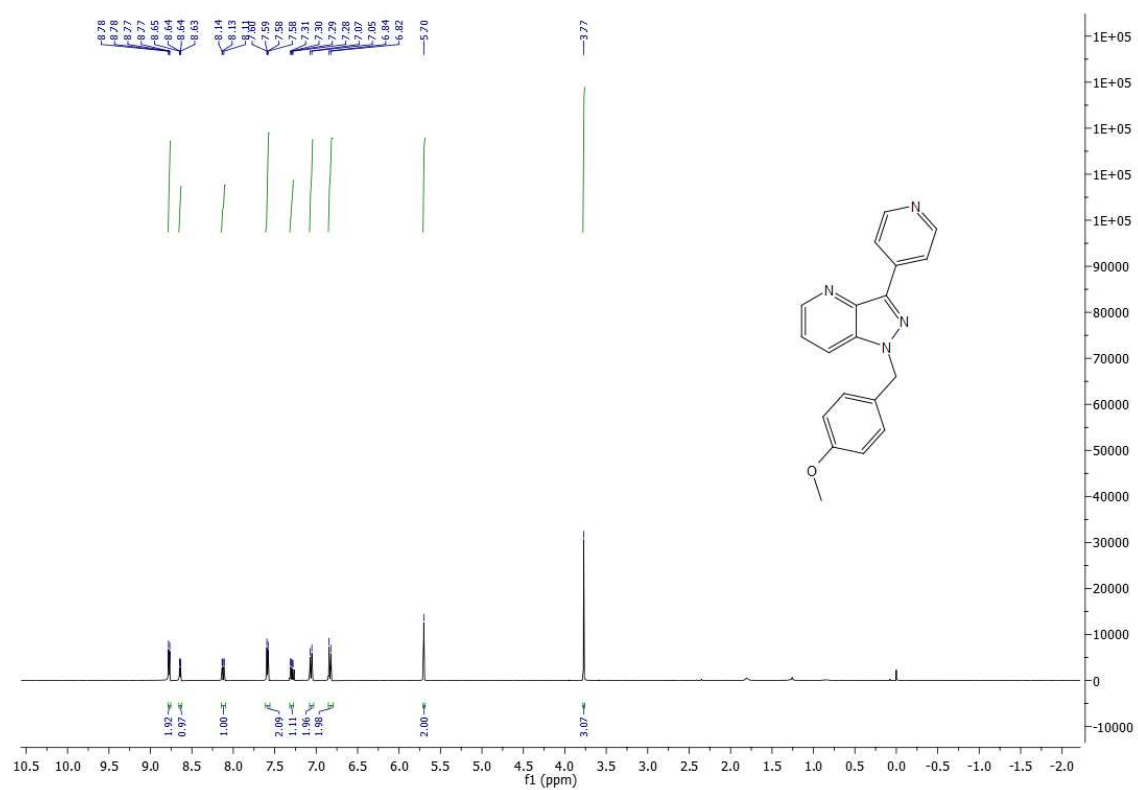
1-(4-Methoxybenzyl)-3-(4-nitrophenyl)-1H-pyrazolo[4,3-b]pyridine **4i**



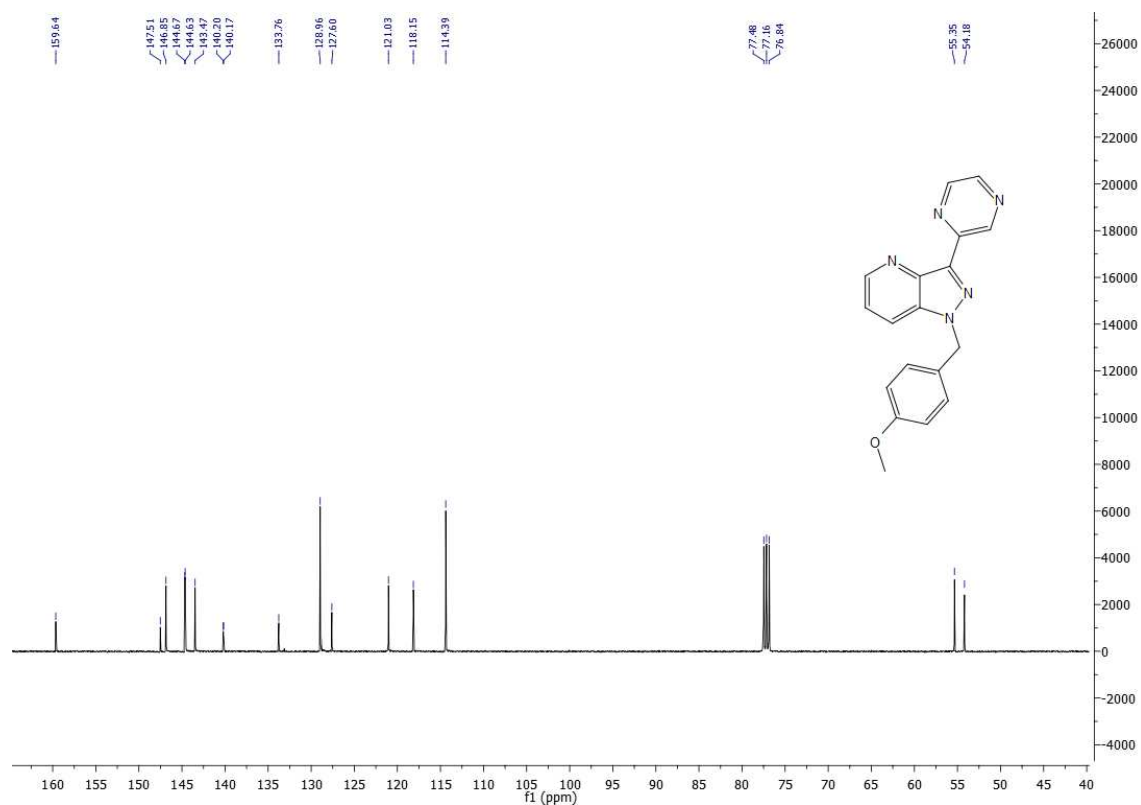
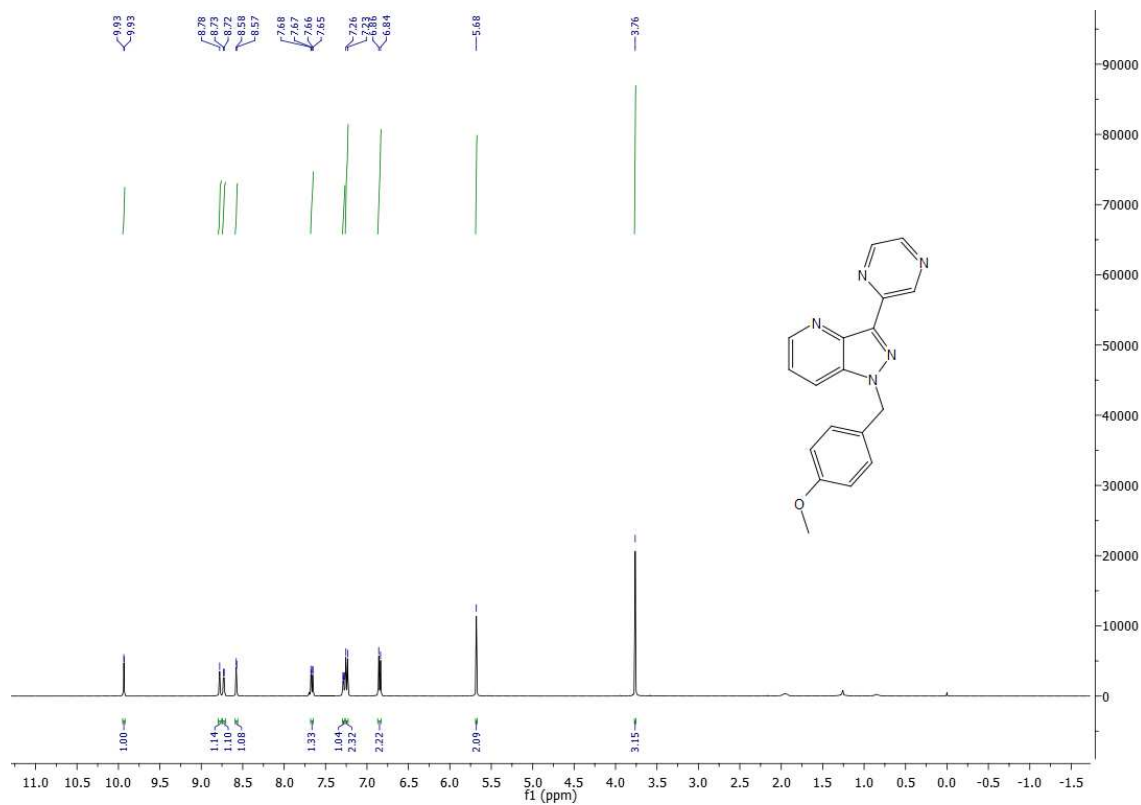
4-(1-(4-Methoxybenzyl)-1H-pyrazolo[4,3-b]pyridin-3-yl)benzonitrile **4j**



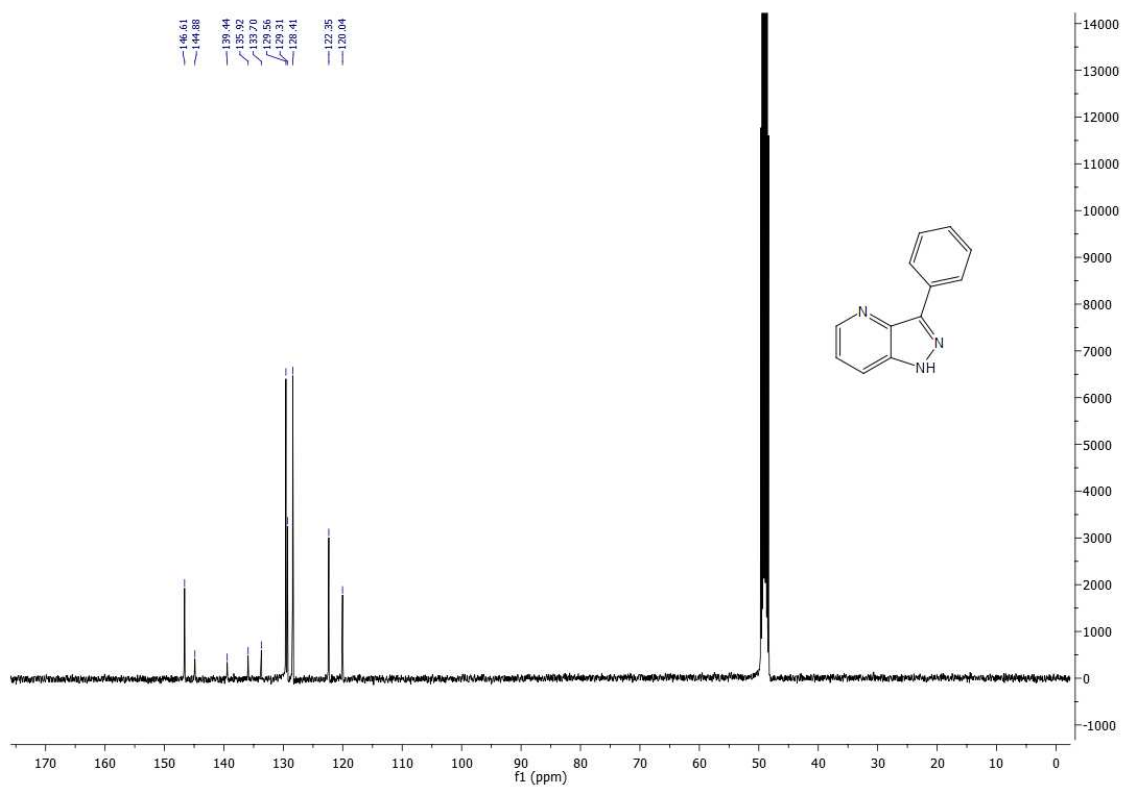
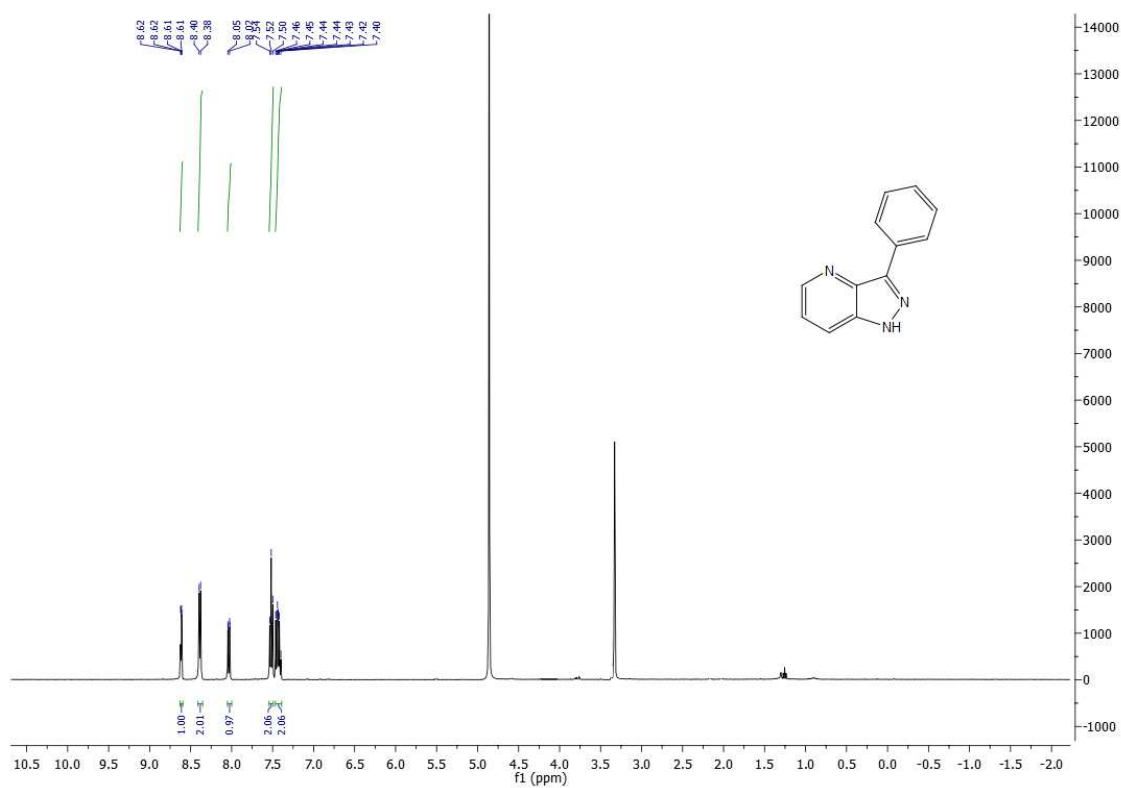
1-(4-Methoxybenzyl)-3-(pyridin-4-yl)-1H-pyrazolo[4,3-b]pyridine **4k**



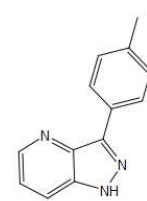
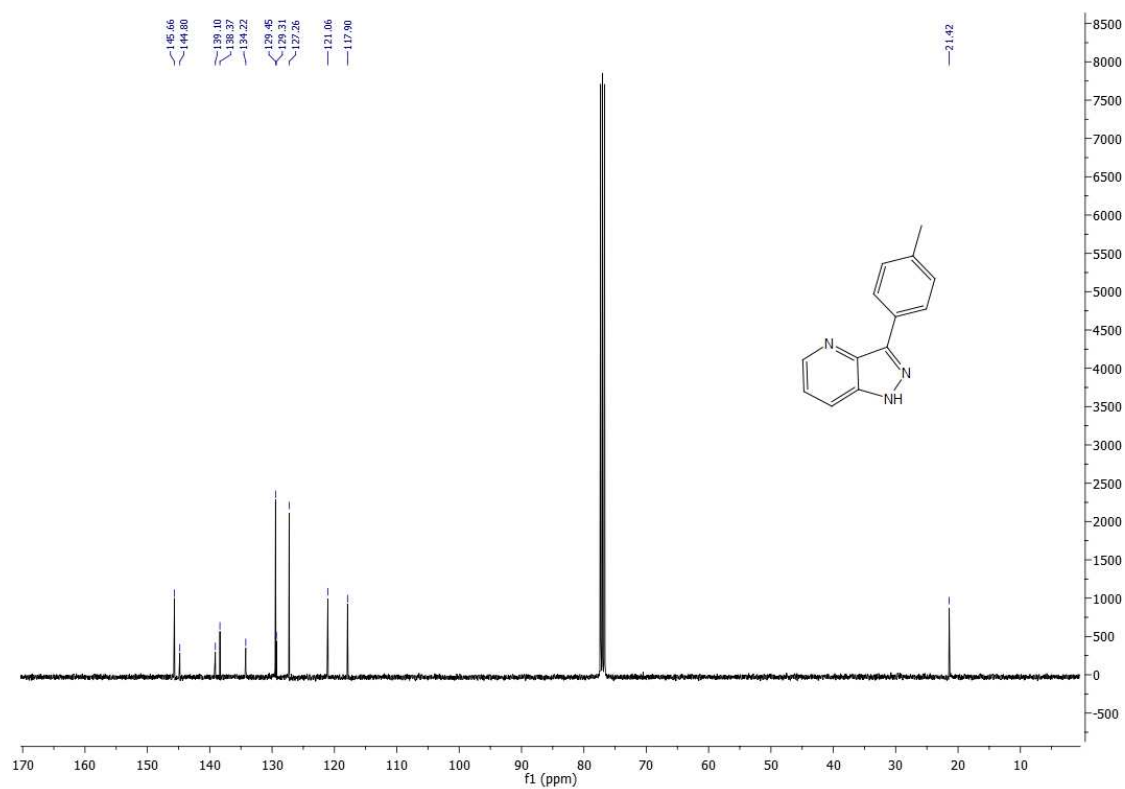
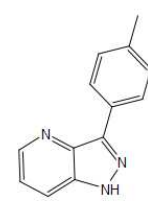
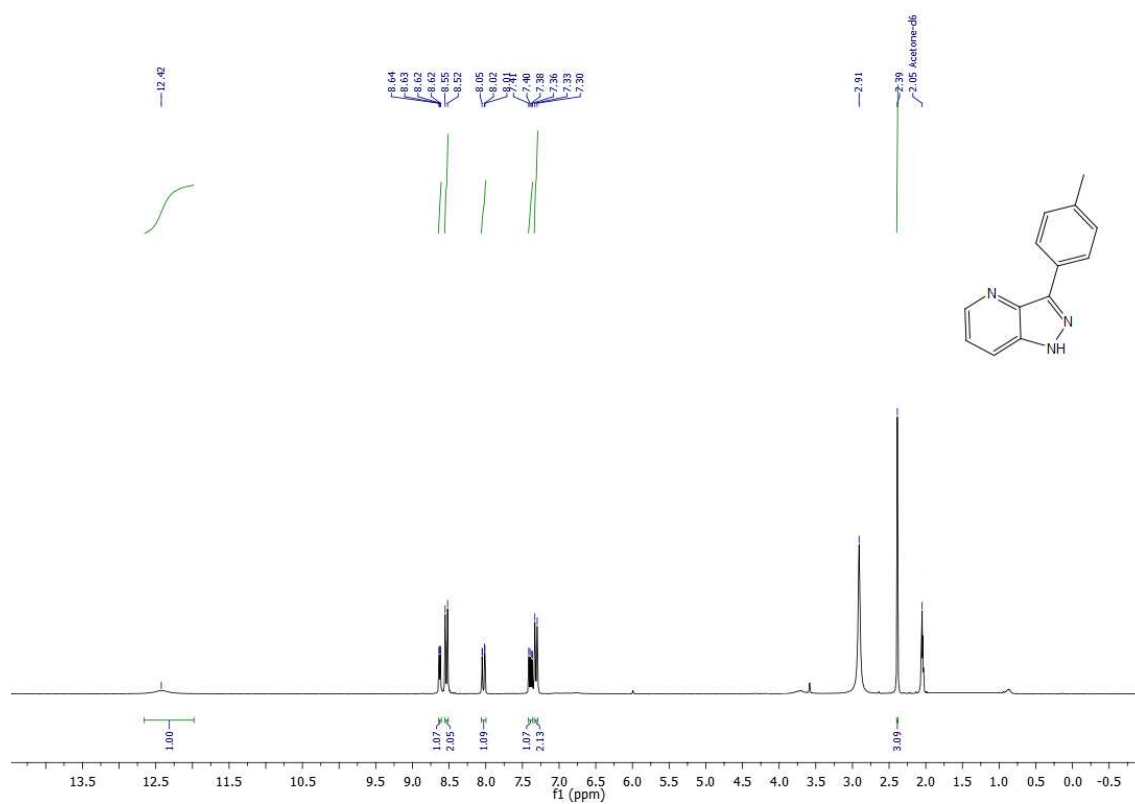
1-(4-Methoxybenzyl)-3-(pyrazin-2-yl)-1H-pyrazolo[4,3-b]pyridine **4l**



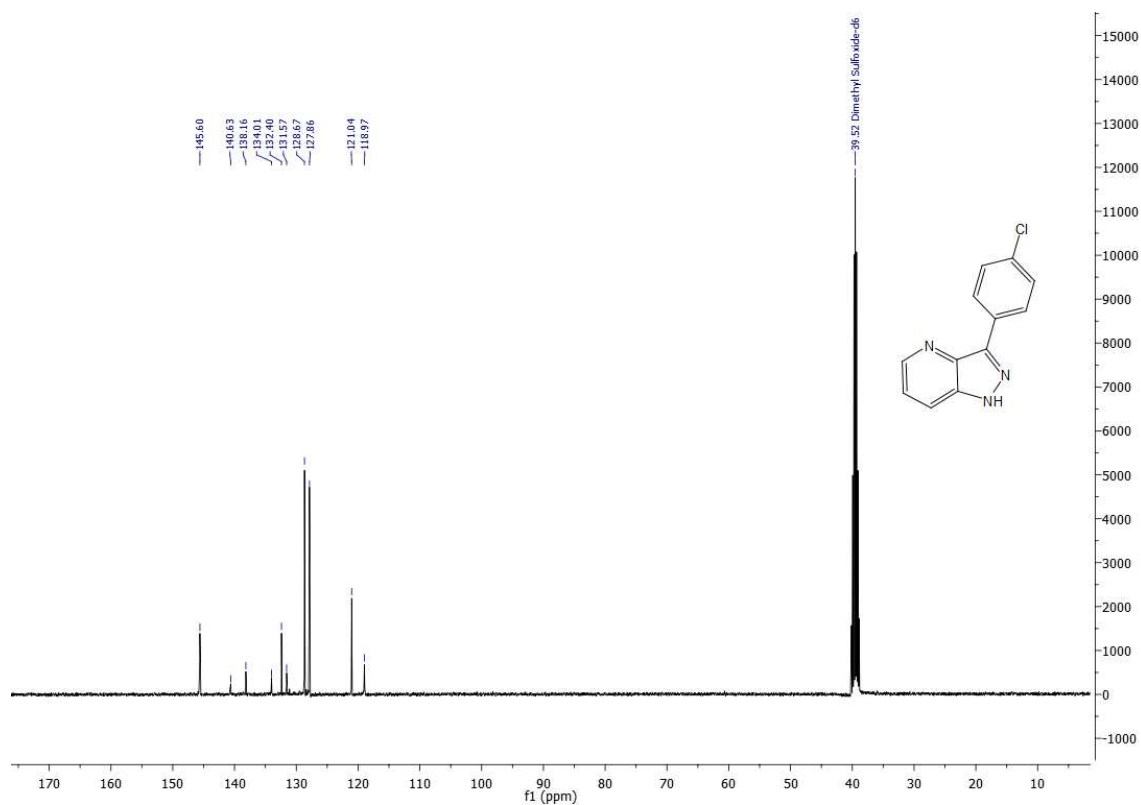
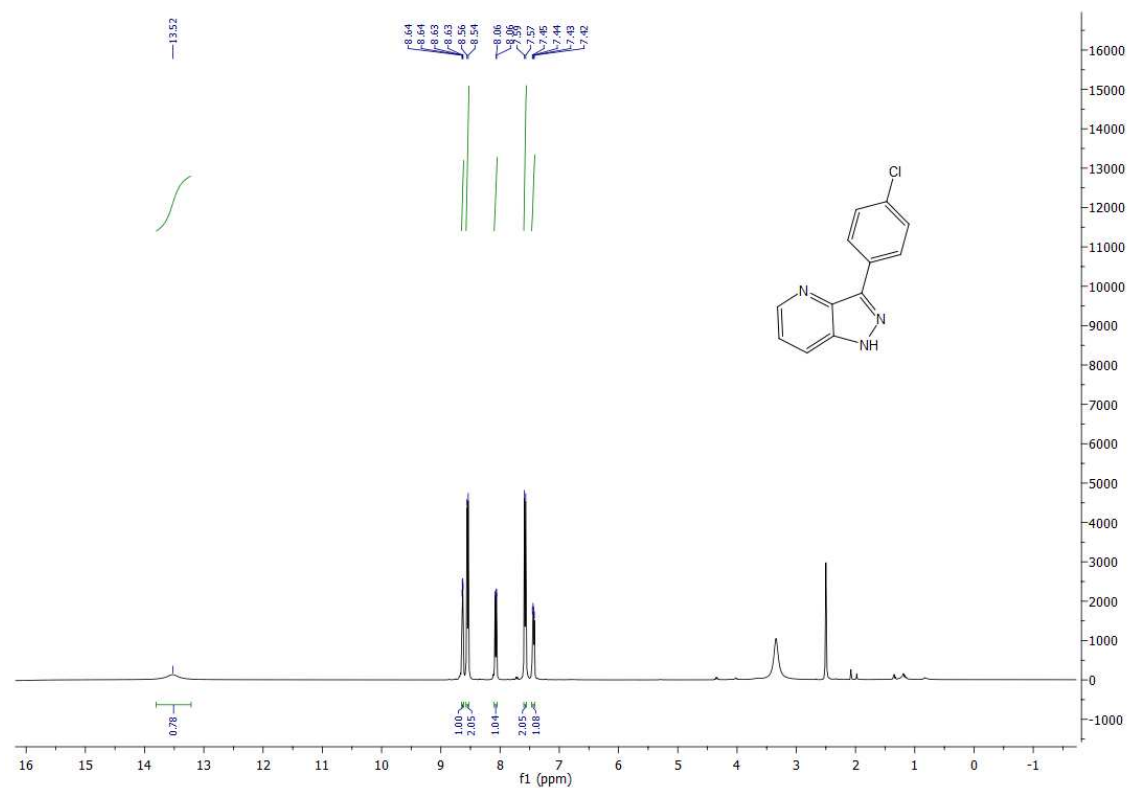
3-Phenyl-1H-pyrazolo[4,3-b]pyridine **5a**



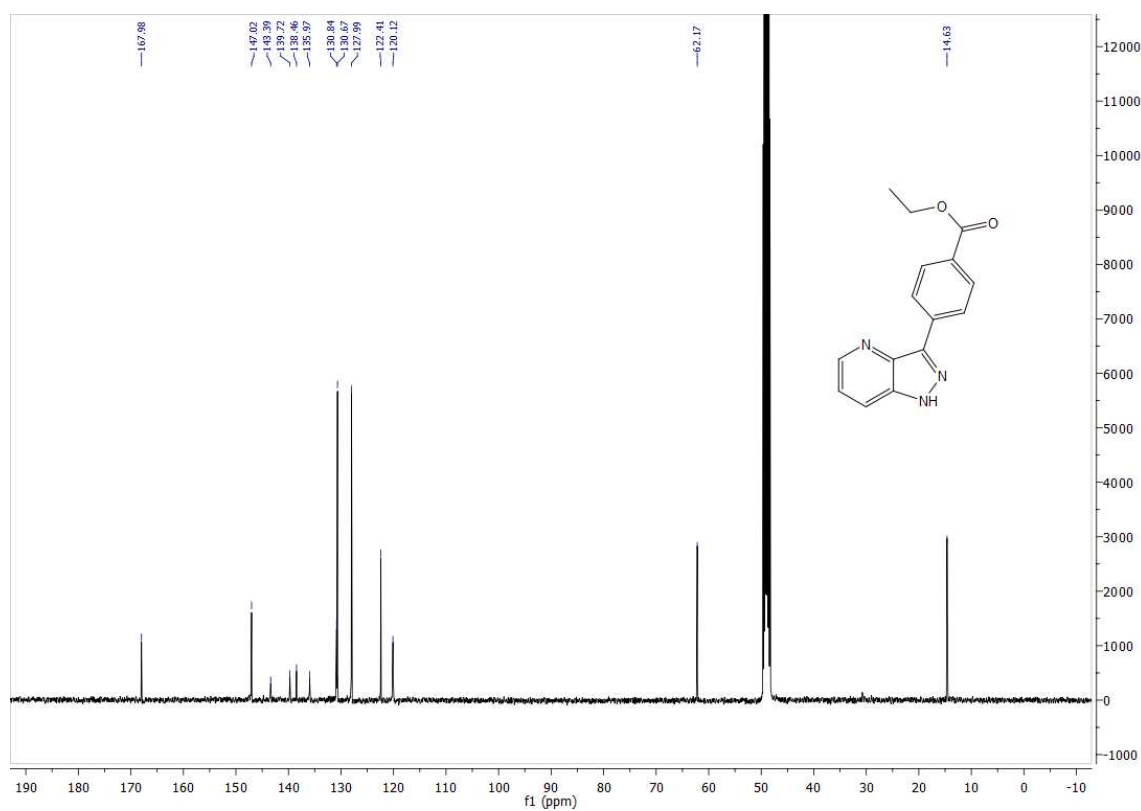
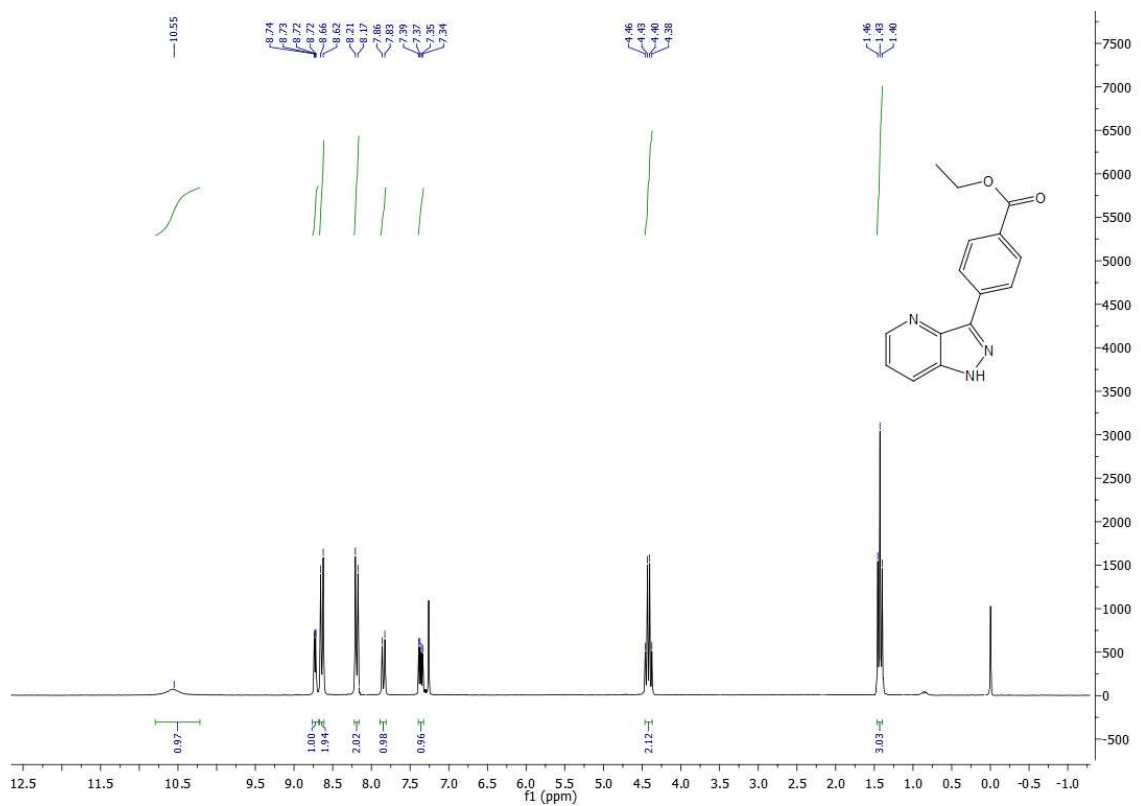
3-*p*-Tolyl-1H-pyrazolo[4,3-*b*]pyridine **5b**



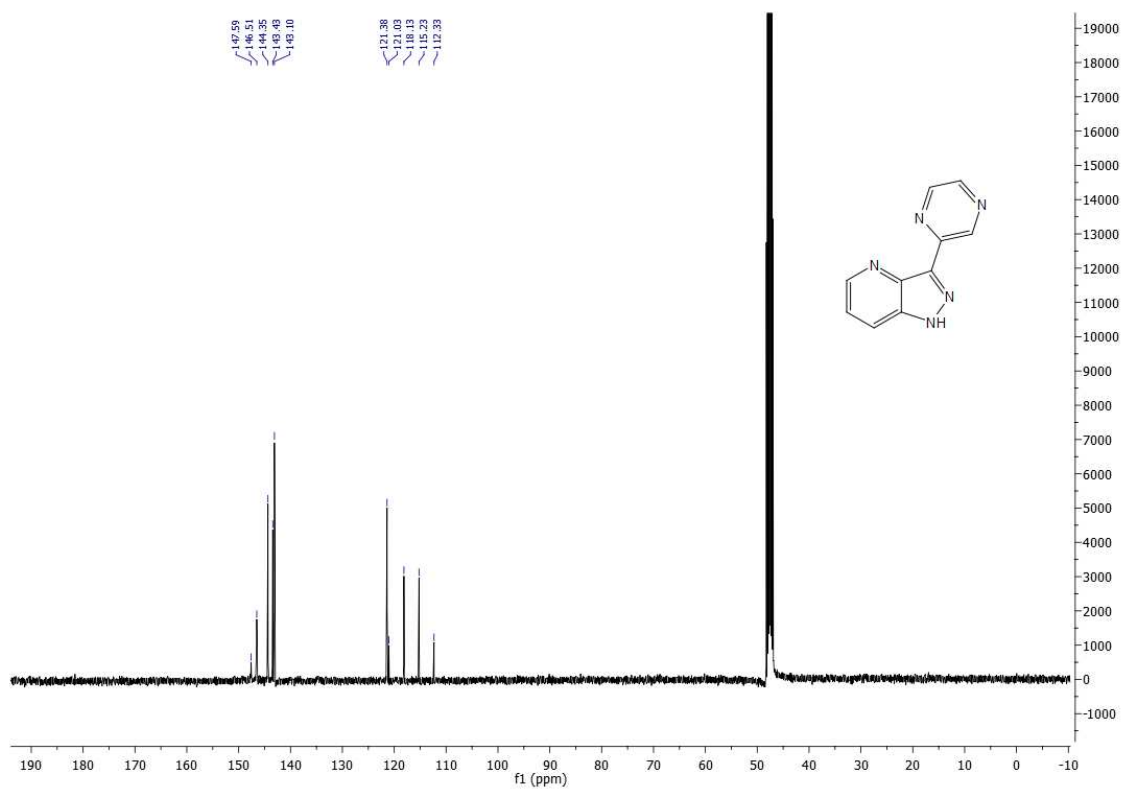
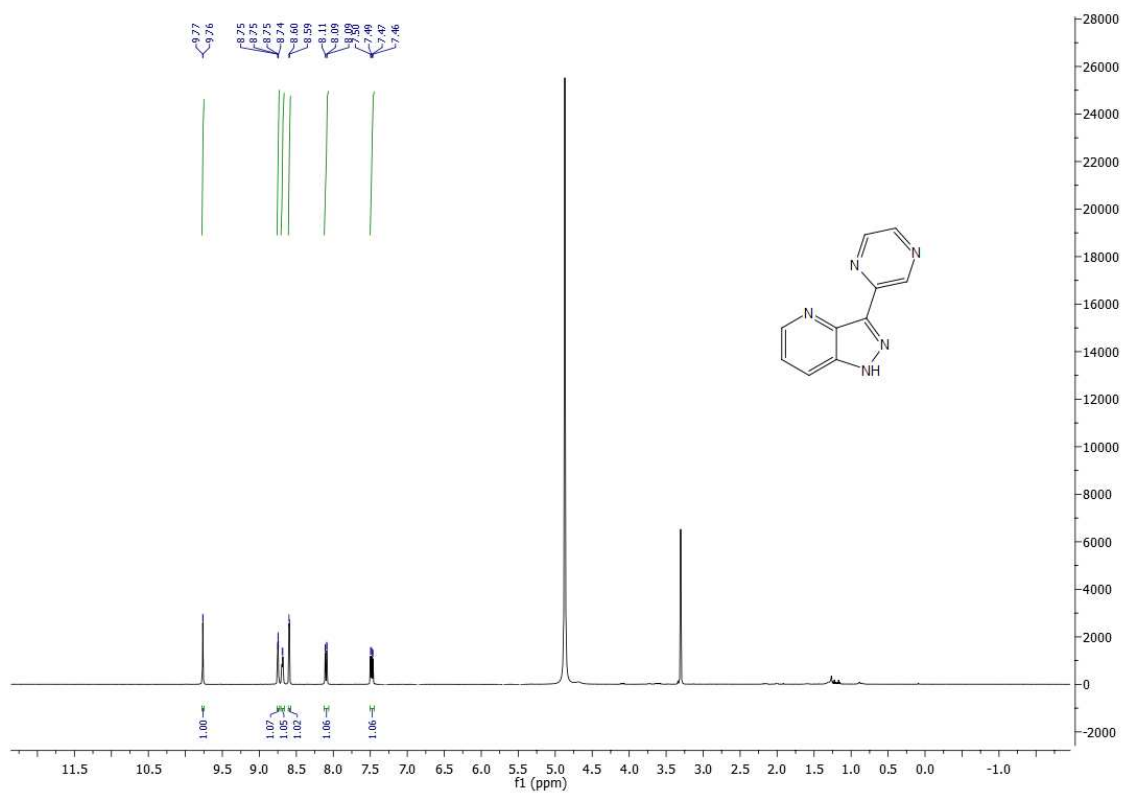
3-(4-Chlorophenyl)-1H-pyrazolo[4,3-b]pyridine **5c**



Ethyl 4-(1H-pyrazolo[4,3-b]pyridin-3-yl)benzoate **5d**

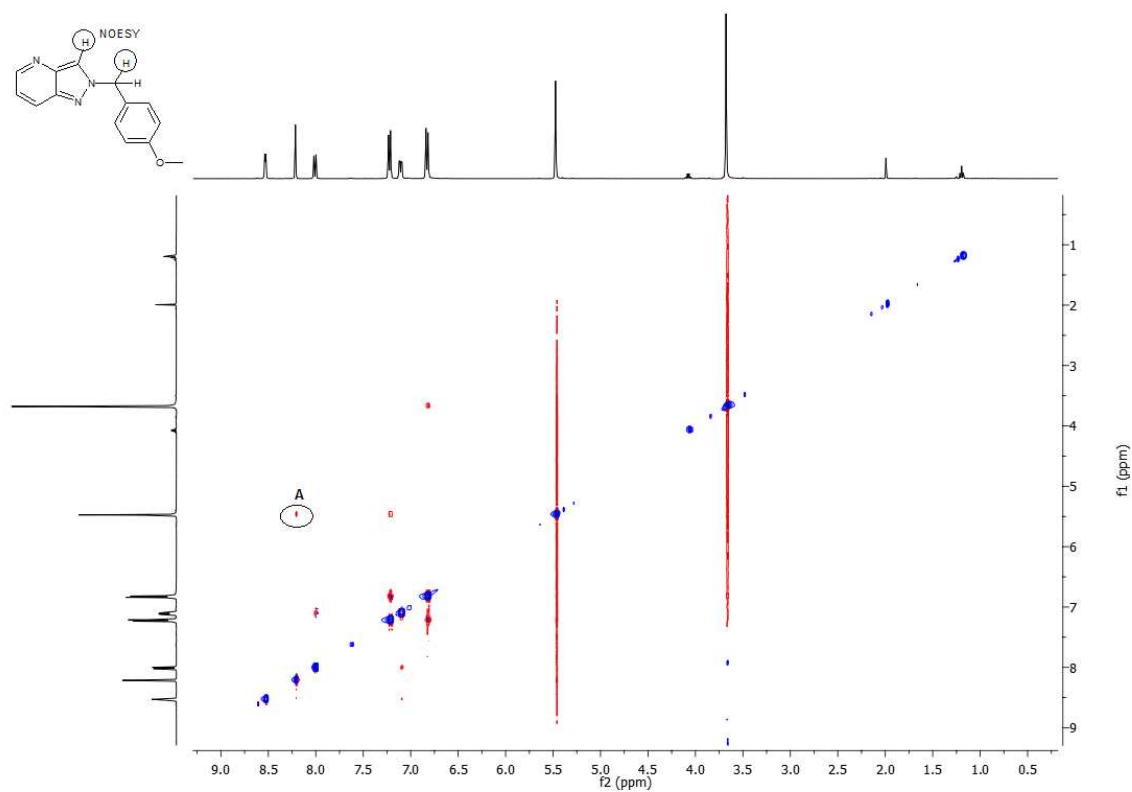


3-(Pyrazin-2-yl)-1H-pyrazolo[4,3-b]pyridine **5e**



2- 2D NOESY spectra of **1** and **3**

a- 2D NOESY correlation between N_2CH_2 and C_3H for compound **1**.



b- 2D NOESY spectra of compound **3**.

