

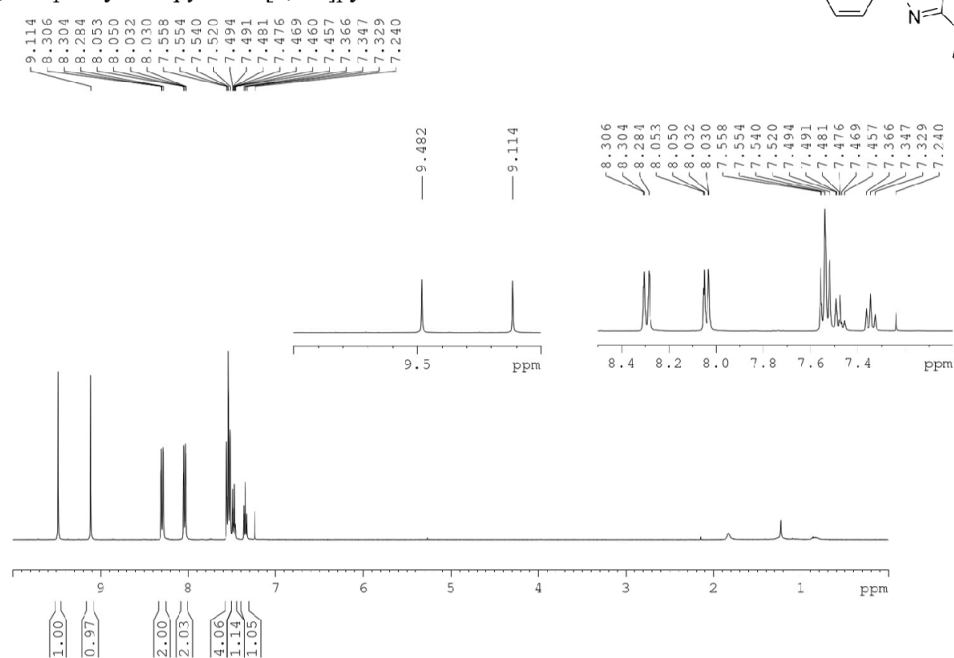
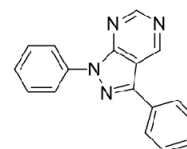
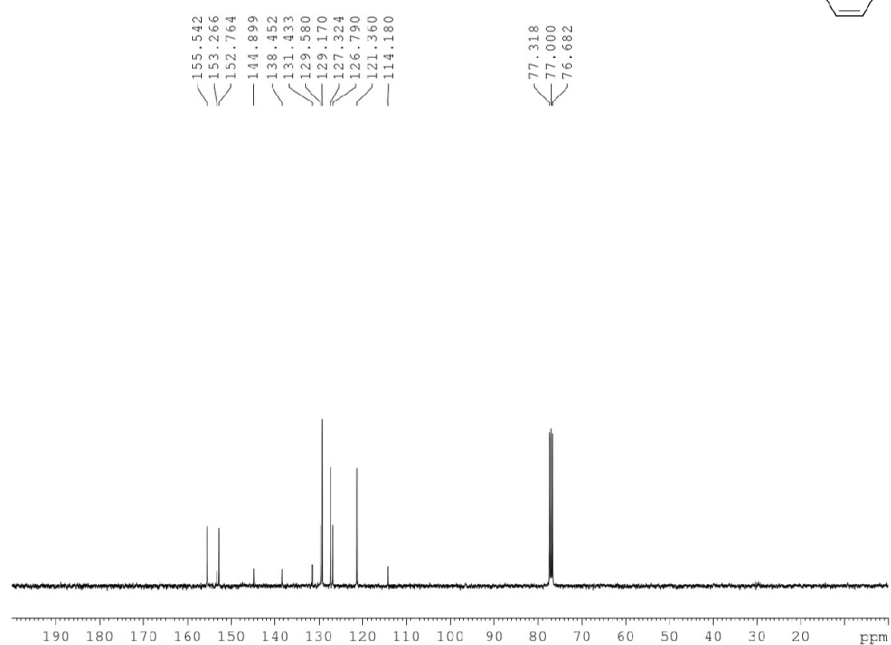
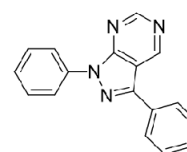
Supporting Information

One-Flask Synthesis of Pyrazolo[3,4-*d*]pyrimidines from 5-Aminopyrazoles and Mechanistic Study

Wan-Ping Yen ^{1,2}, Shuo-En Tsai ^{1,2}, Naoto Uramaru ³, Hiroyuki Takayama ⁴ and Fung Fuh Wong ^{1,*}

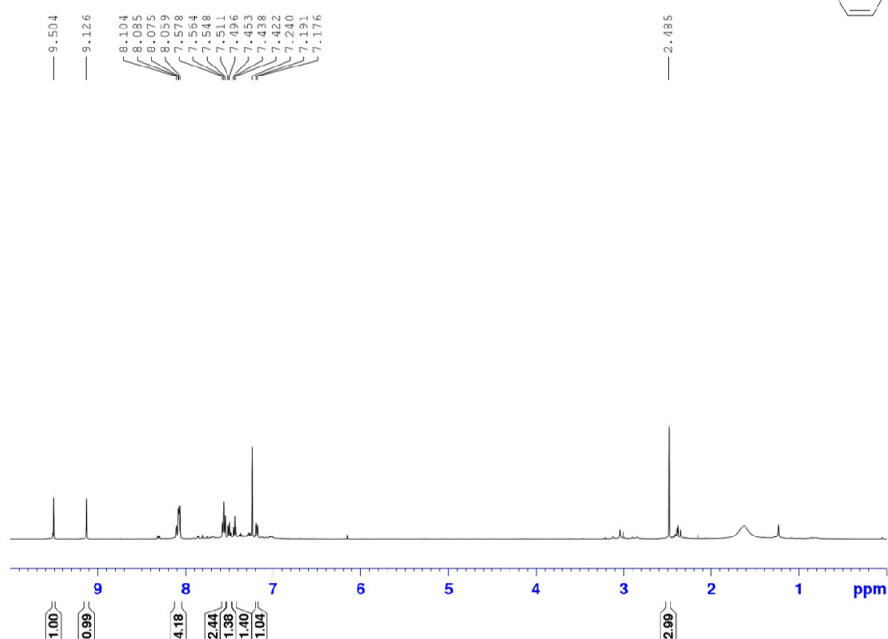
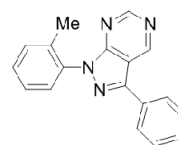
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NMR Spectra of Reported Compounds.....	S2
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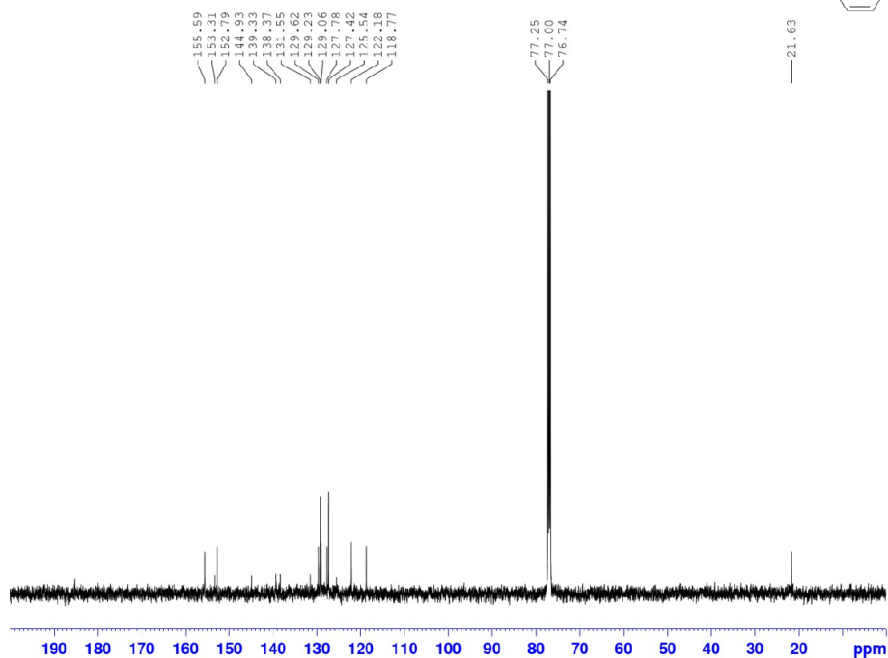
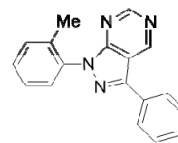
3a1,3-Diphenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine**3a**1,3-Diphenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine

3b

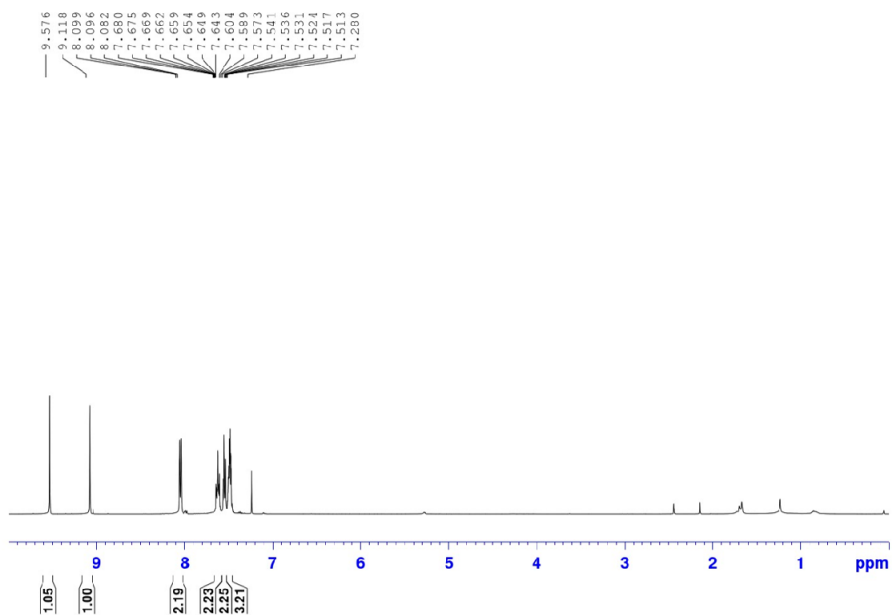
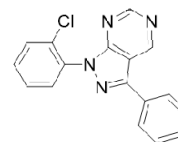
1-(2-Methylphenyl)-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine

**3b**

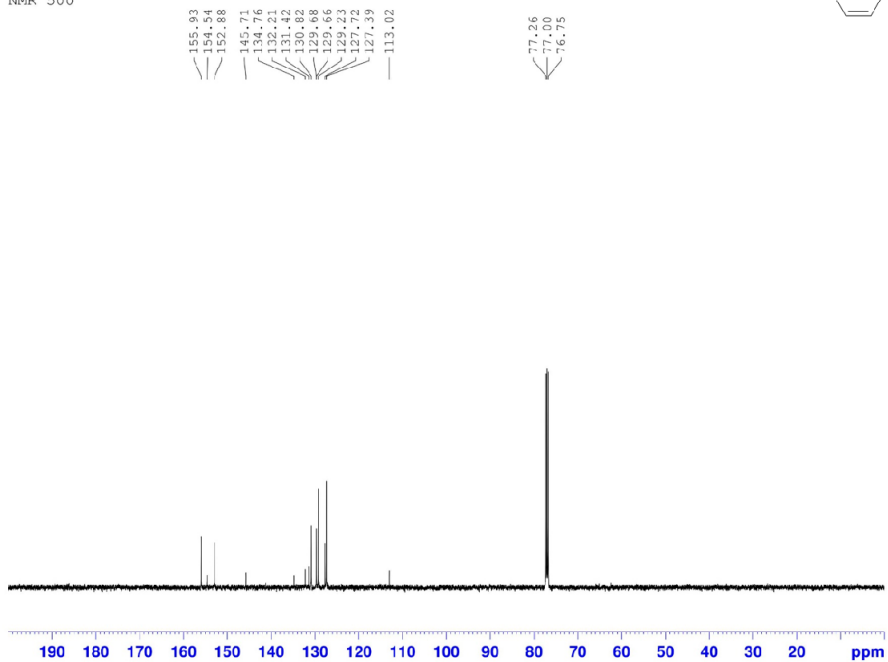
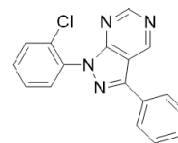
1-(2-Methylphenyl)-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine



3c
1-(2-chlorophenyl)-3-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine

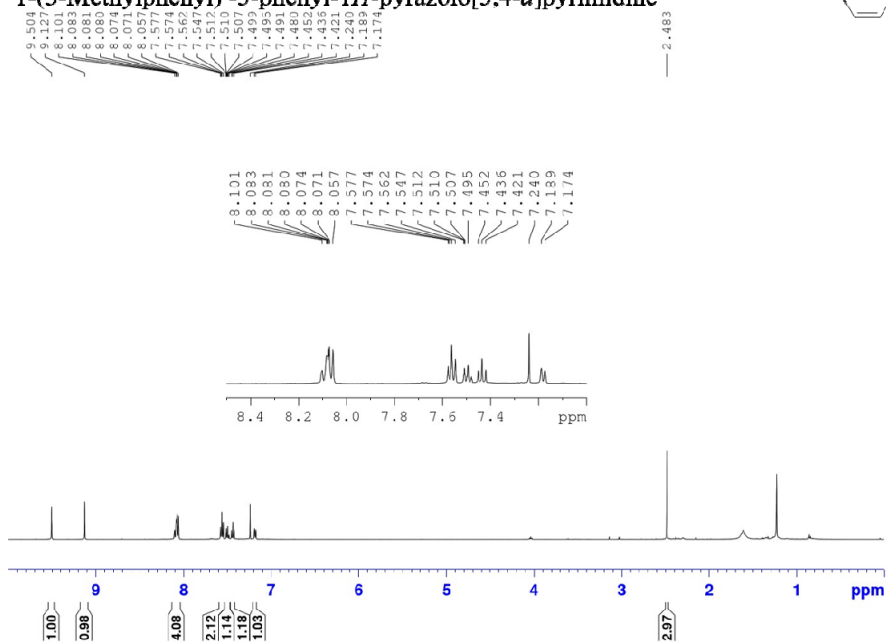
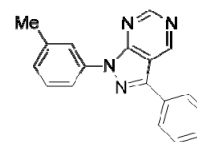


3c
1-(2-chlorophenyl)-3-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine
NMR 500



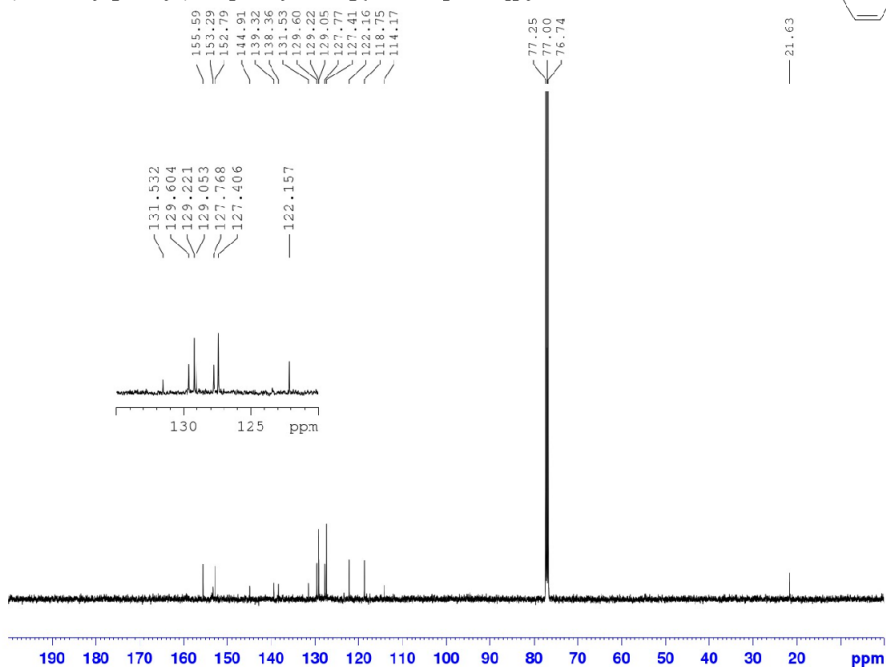
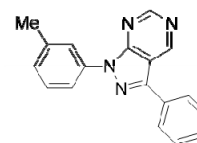
3d

1-(3-Methylphenyl)-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine

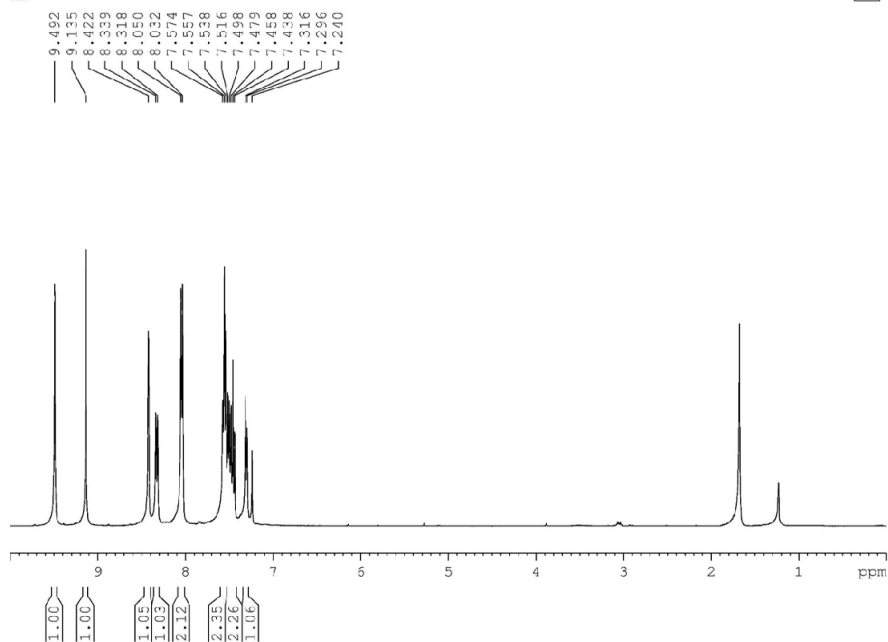
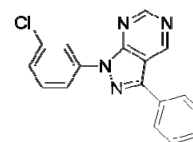


3d

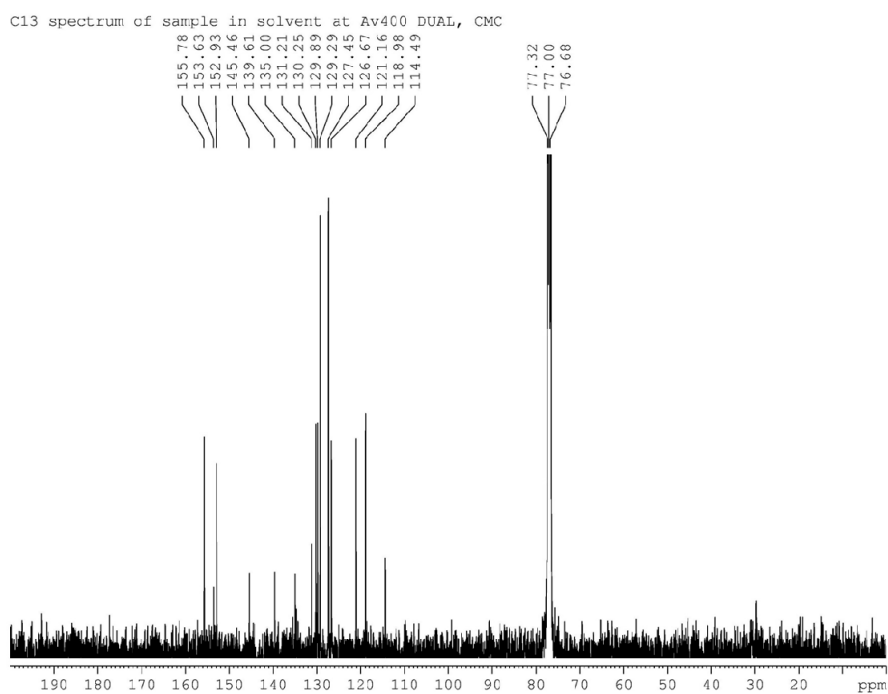
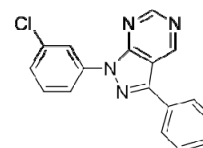
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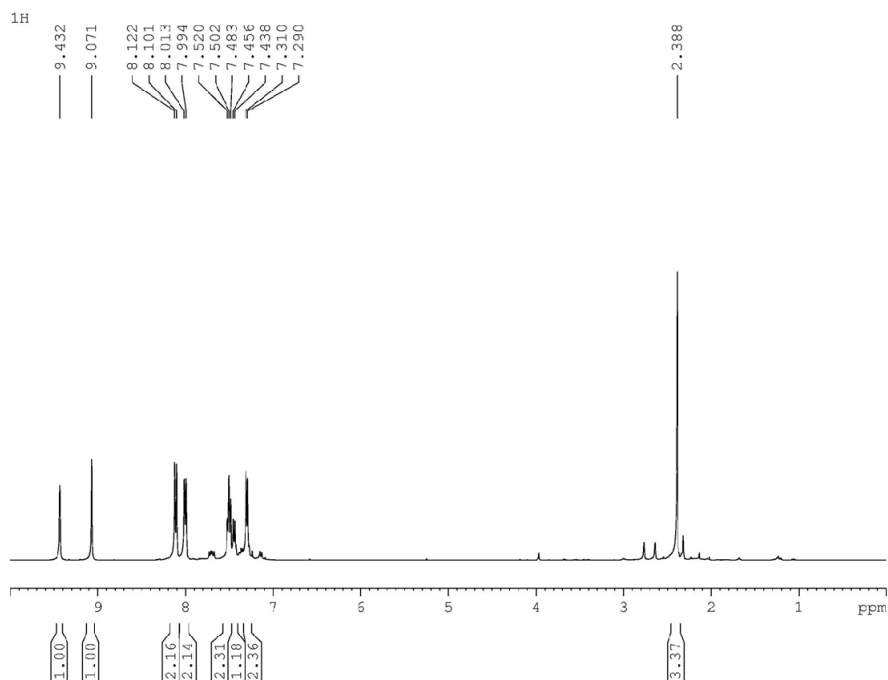
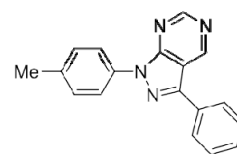
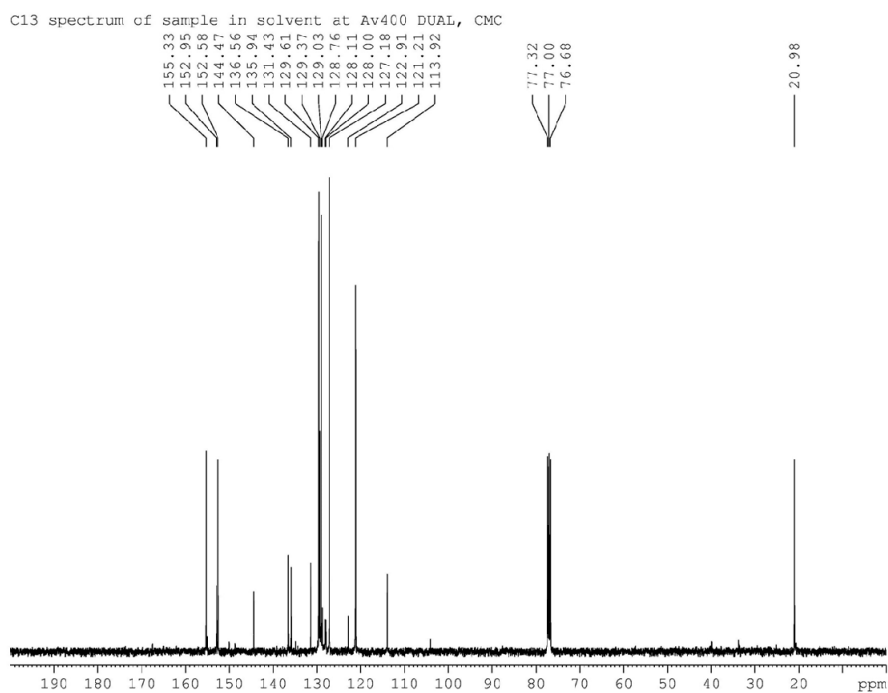
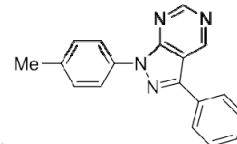


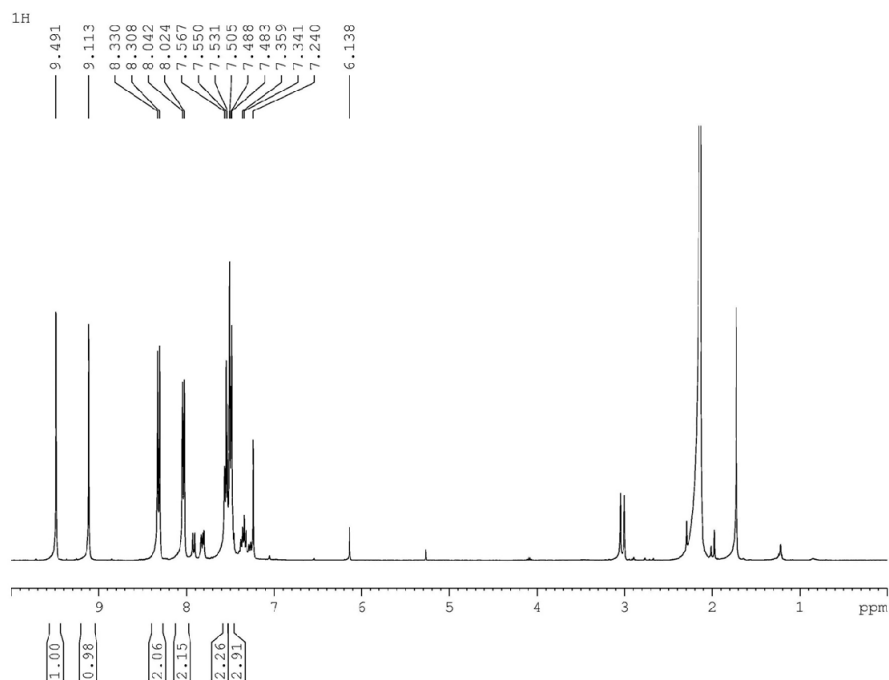
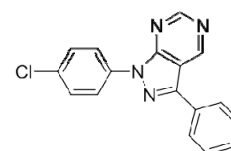
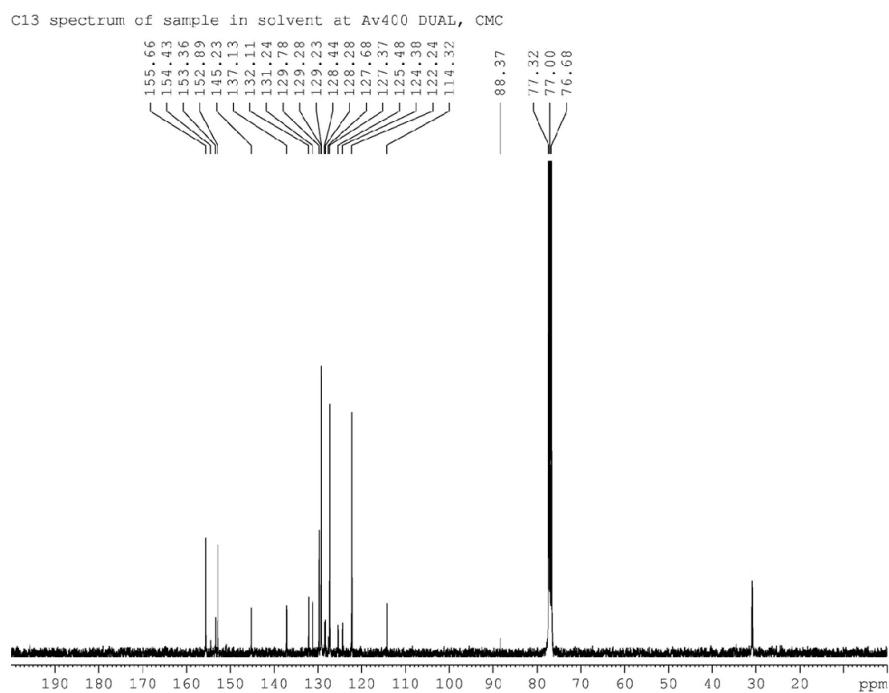
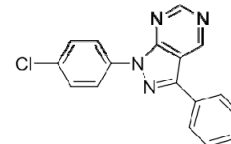
3e
1-(3-chlorophenyl)-3-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine

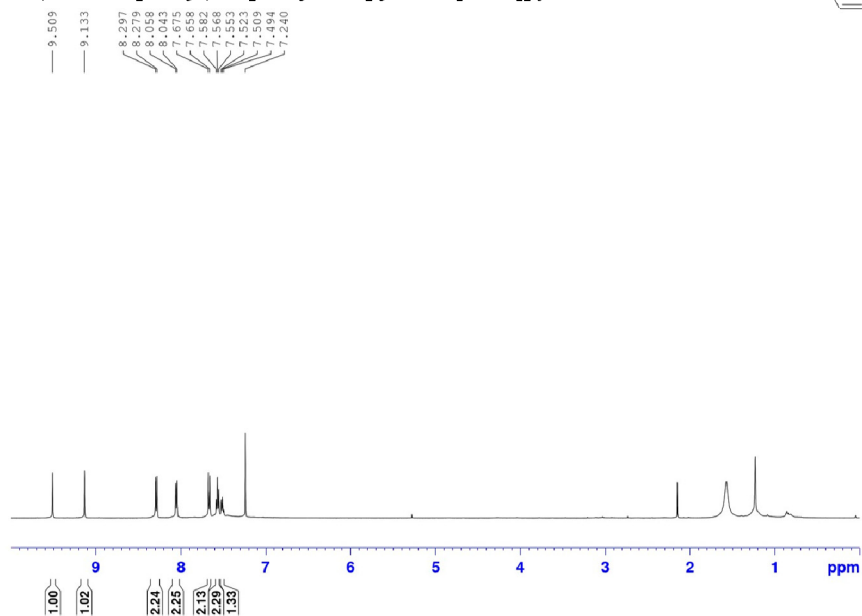
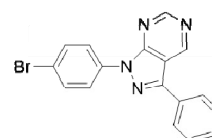
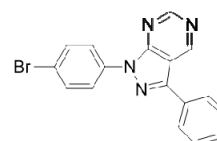


3e
1-(3-chlorophenyl)-3-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine

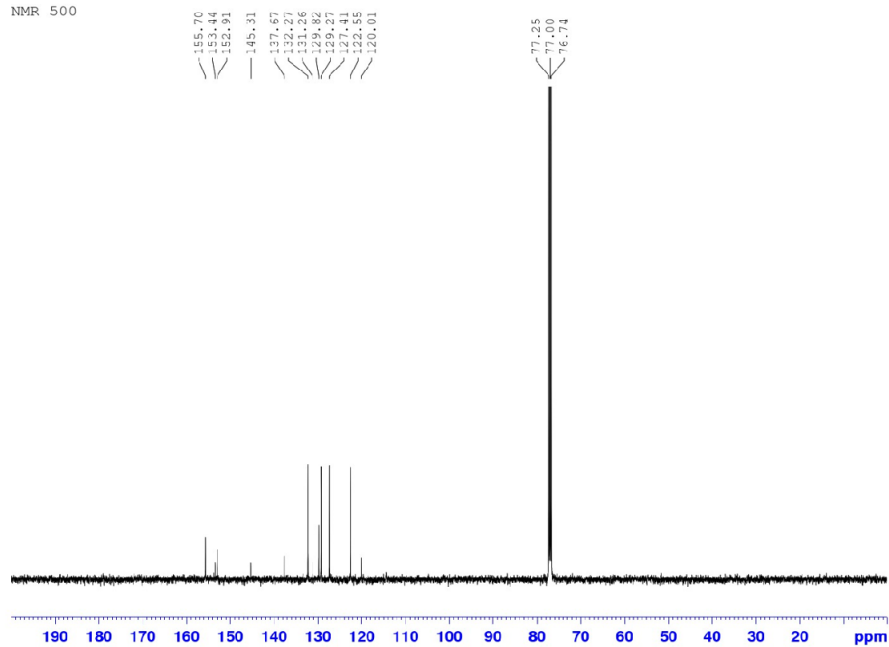


3g1-(4-Methylphenyl)-3-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine**3g**1-(4-Methylphenyl)-3-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine

3h1-(4-chlorophenyl)-3-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine**3h**1-(4-chlorophenyl)-3-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine

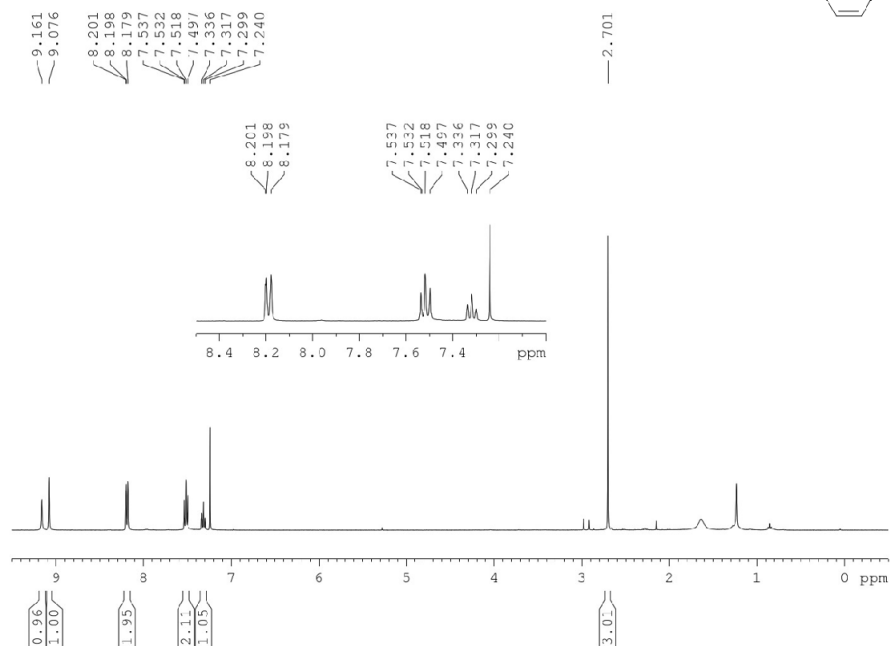
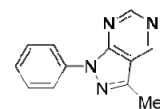
3i1-(4-Bromophenyl)-3-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine**3i**1-(4-Bromophenyl)-3-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine

NMR 500



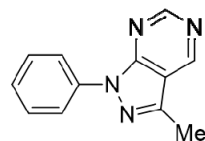
3j

3-Methyl-1-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine

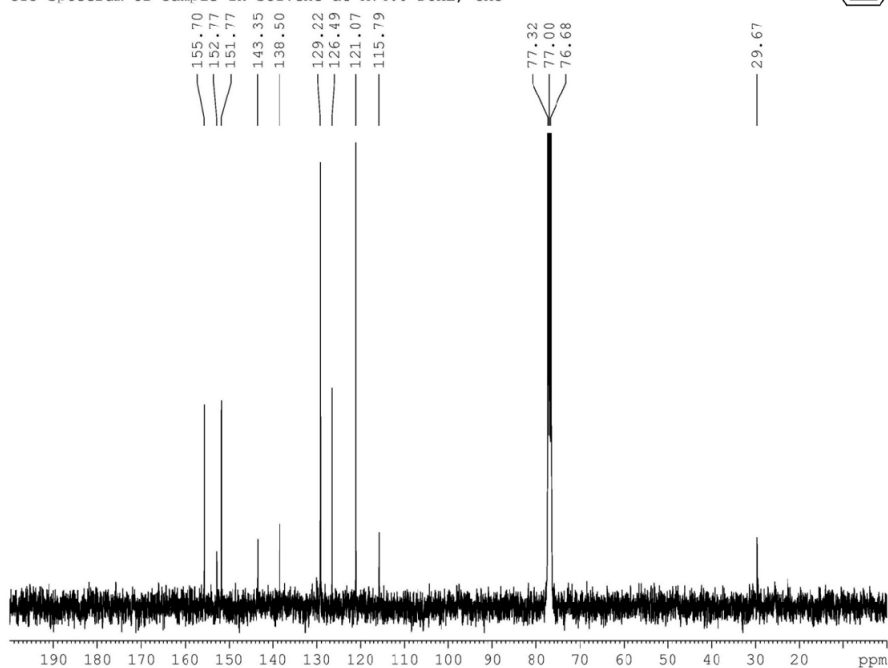


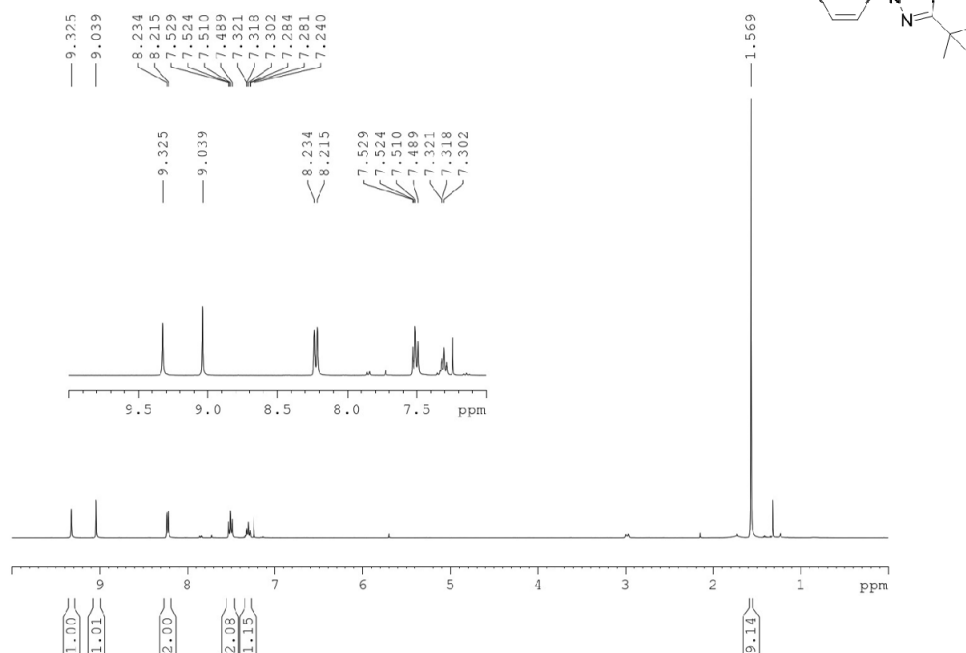
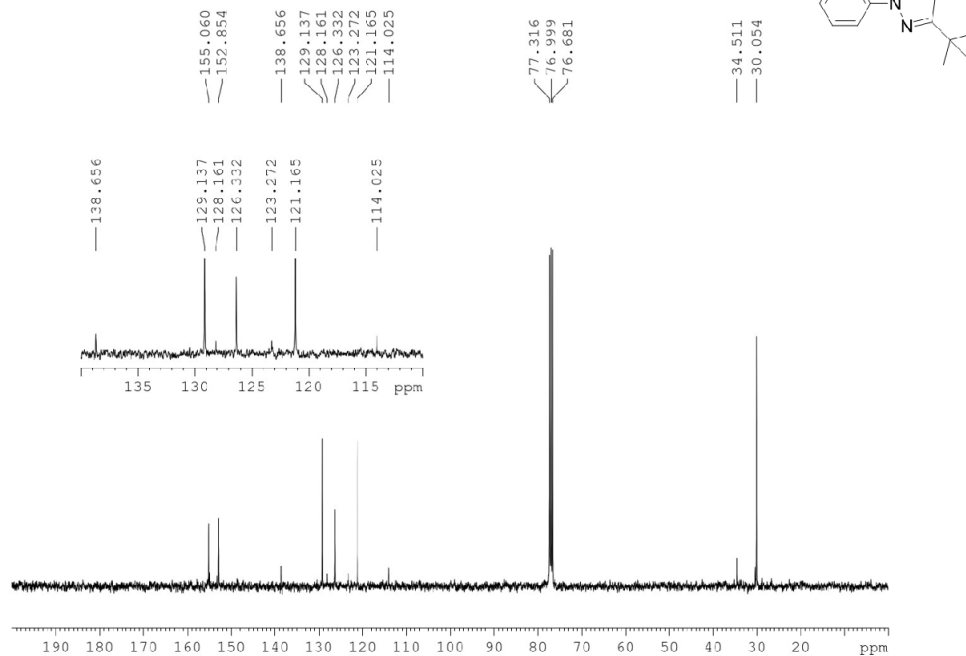
3j

3-Methyl-1-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine



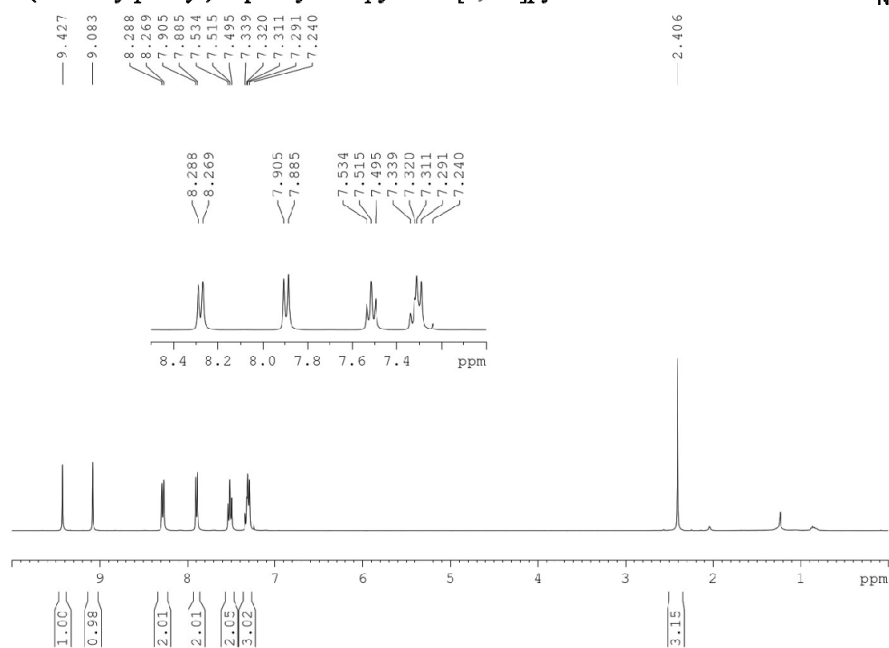
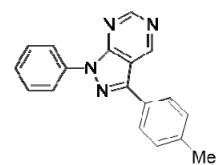
C13 spectrum of sample in solvent at Av400 DUAL, CMC



3k**3-tert-butyl-1-phenyl-1H-pyrazolo[3,4-*d*]pyrimidine****3k****3-tert-butyl-1-phenyl-1H-pyrazolo[3,4-*d*]pyrimidine**

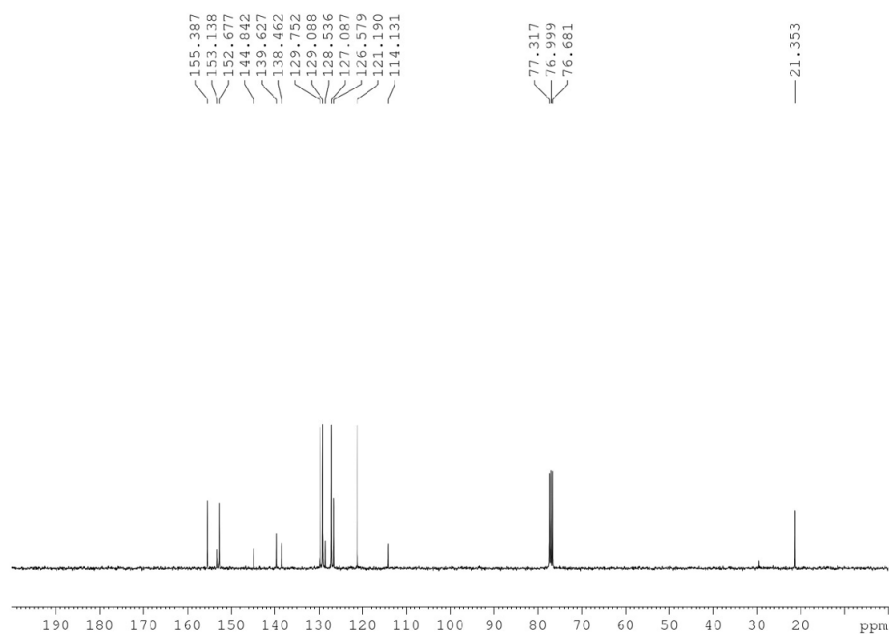
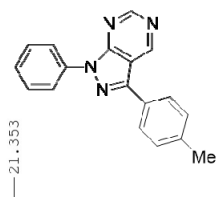
31

3-(4-Methylphenyl)-1-phenyl-1H-pyrazolo[3,4-d]pyrimidine



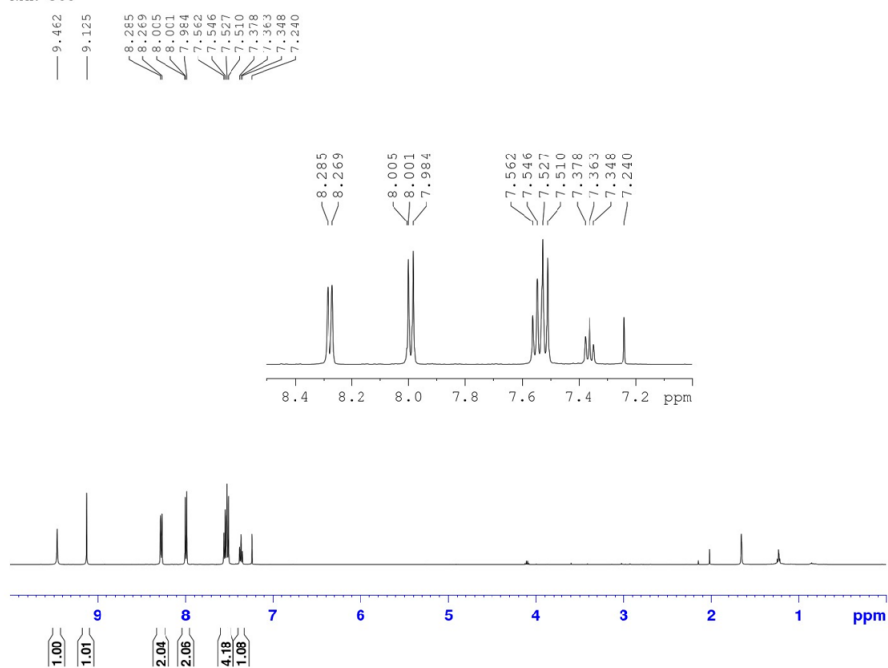
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3-(4-Methylphenyl)-1-phenyl-1H-pyrazolo[3,4-d]pyrimidine

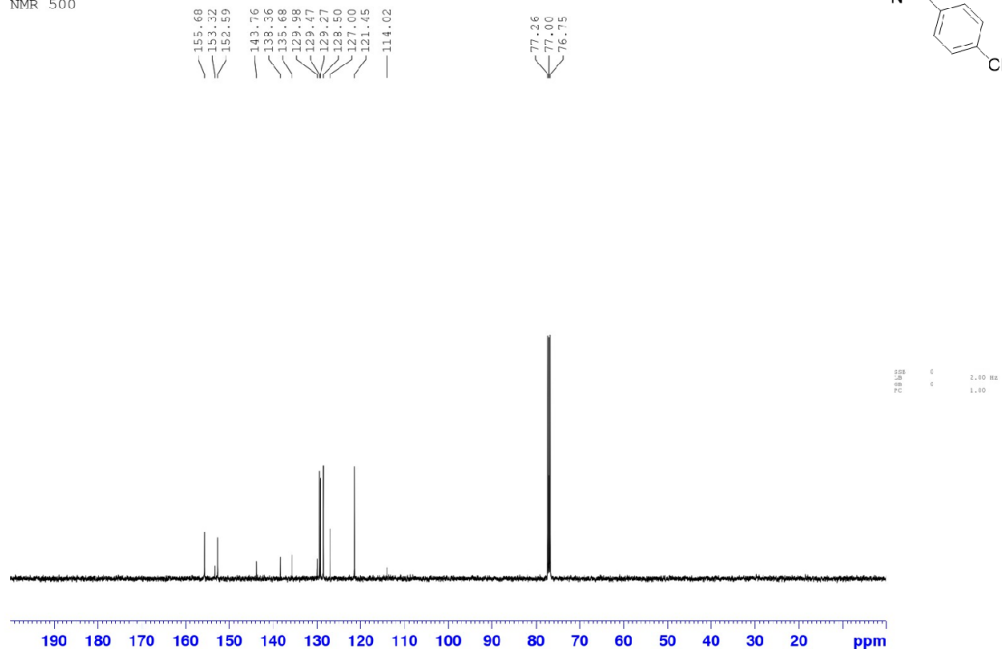


3m**3-(4-Chlorophenyl)-1-phenyl-1H-pyrazolo[3,4-*d*]pyrimidine**

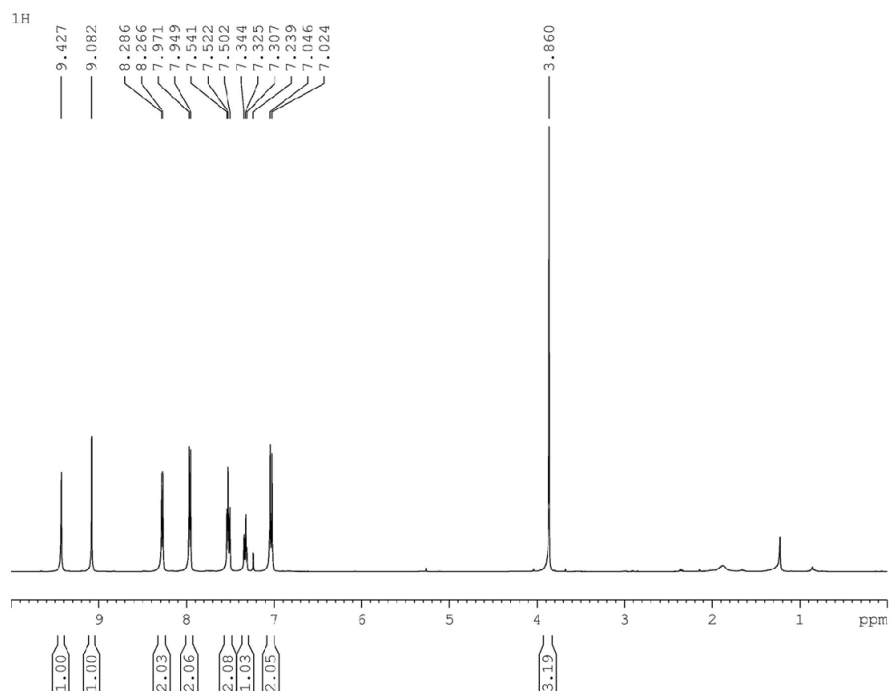
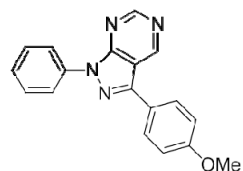
NMR 500

**3m****3-(4-Chlorophenyl)-1-phenyl-1H-pyrazolo[3,4-*d*]pyrimidine**

NMR 500



3n
3-(4-Methoxyphenyl)-1-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine



3n
3-(4-Methoxyphenyl)-1-phenyl-1*H*-pyrazolo[3,4-*d*]pyrimidine

