

## Supplementary Information

# One pot synthesis of 4,5-dibromo-3,6-diarylpyridazine from 1,4-diarylbuta-1,3-diyne

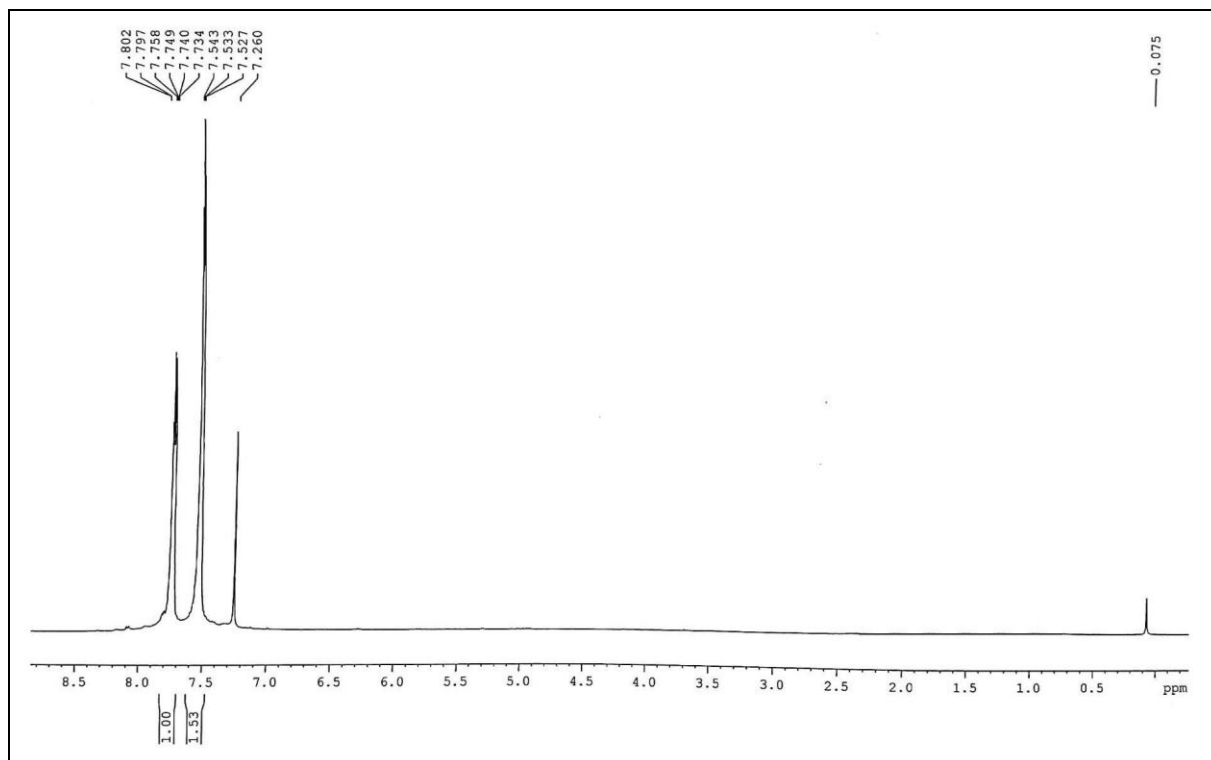
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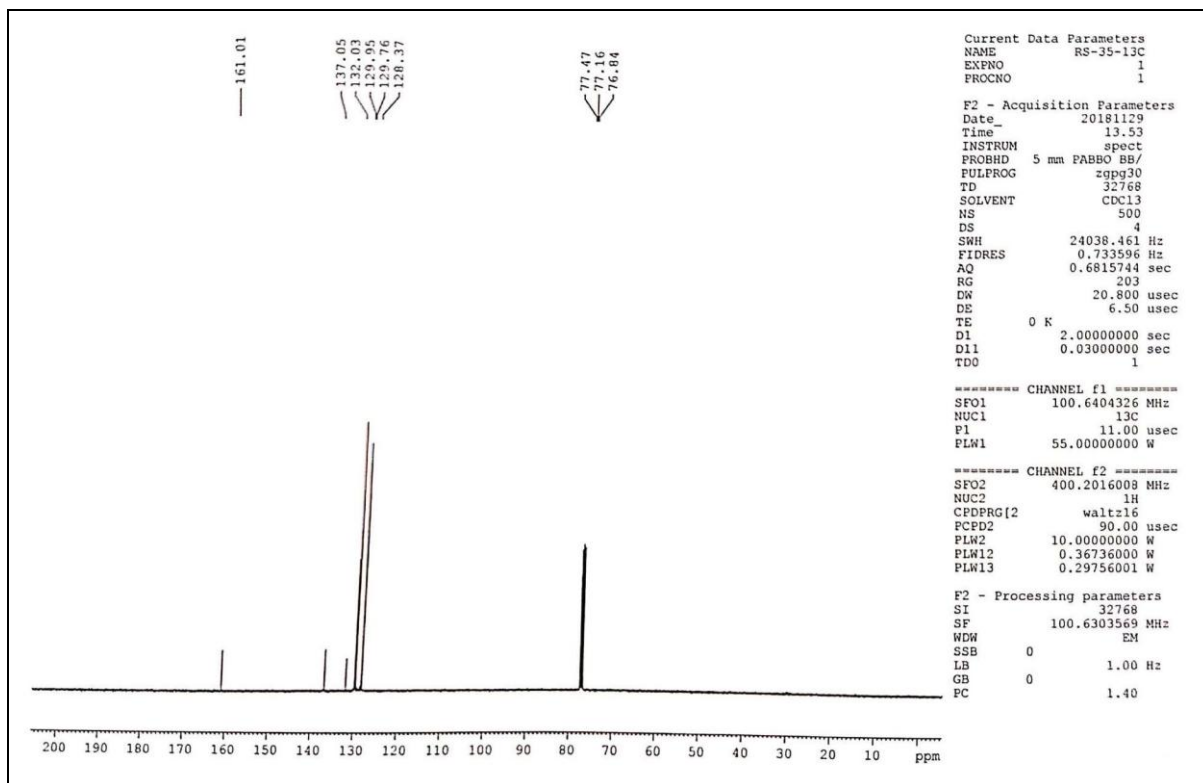
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Received 18 June 2022; accepted (revised) 29 July 2022

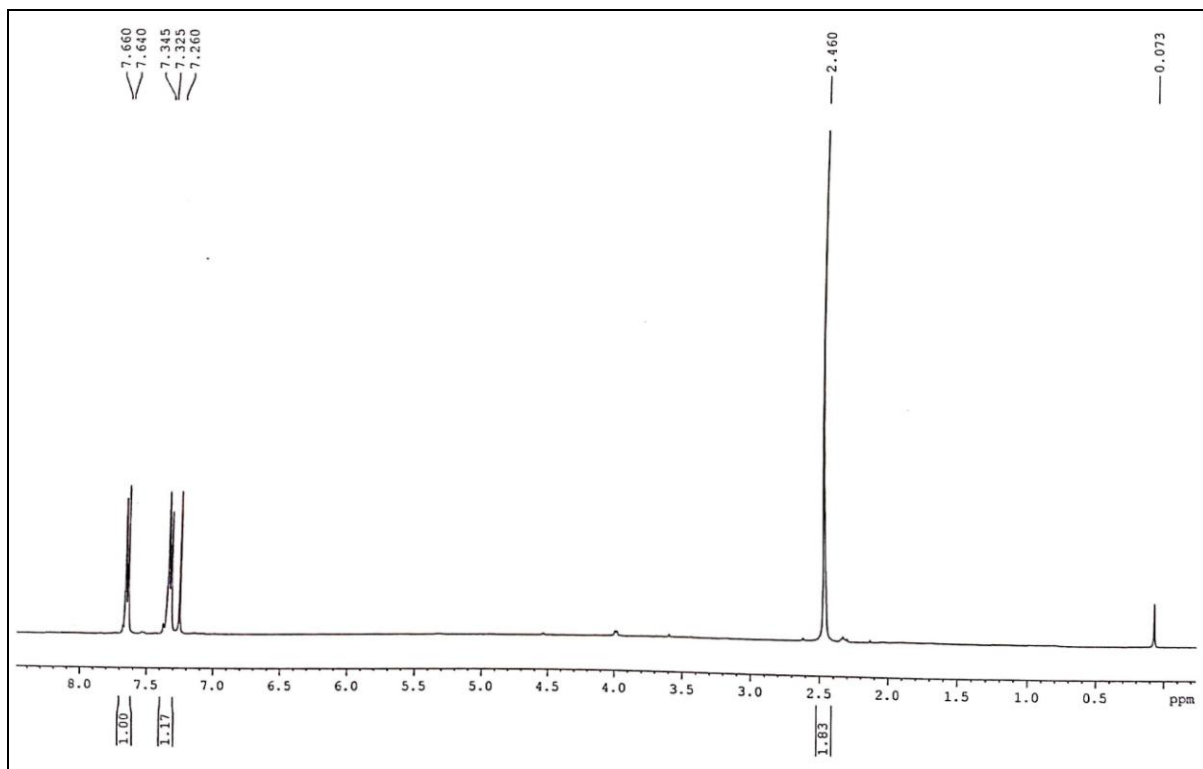
### 4,5-Dibromo-3,6-diphenyl pyridazine (2a): $^1\text{H}$ NMR ( $\text{CDCl}_3$ , 400 MHz)



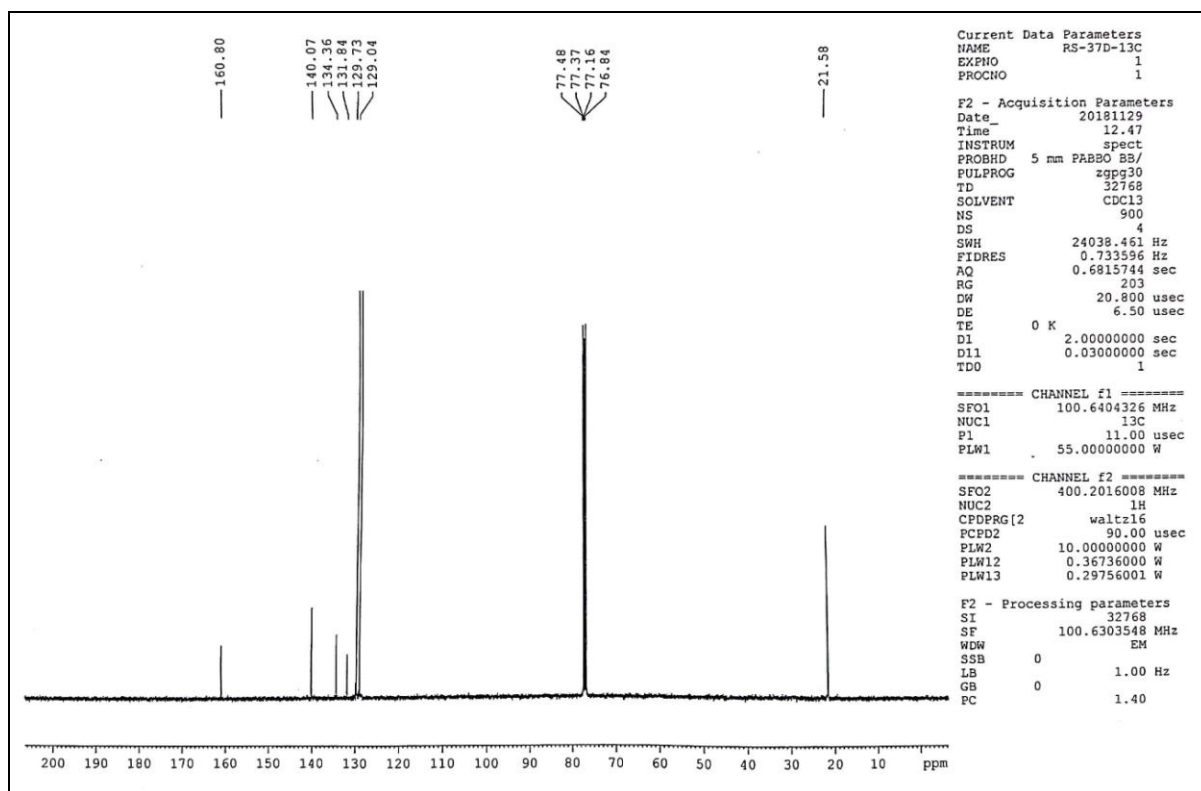
**4,5-Dibromo-3,6-diphenyl pyridazine (2a):  $^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz)**



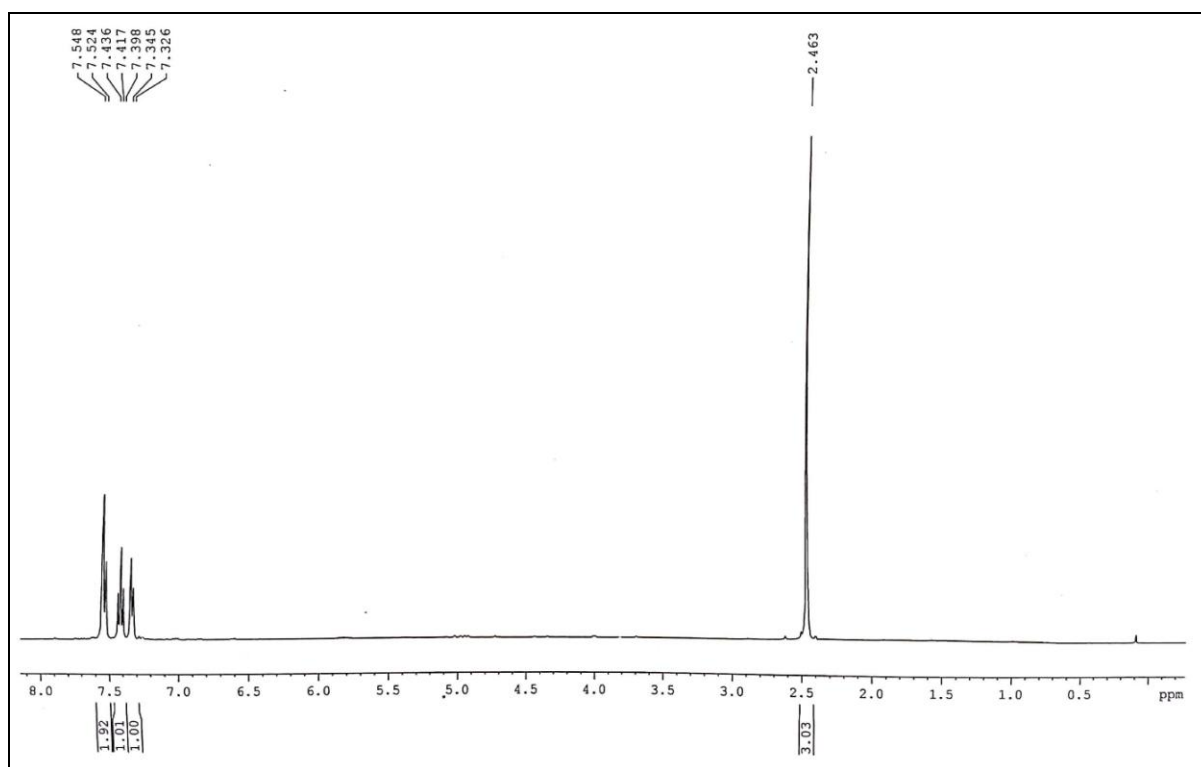
**4,5-Dibromo-3,6-bis(4-methylphenyl) pyridazine (2b):  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz)**



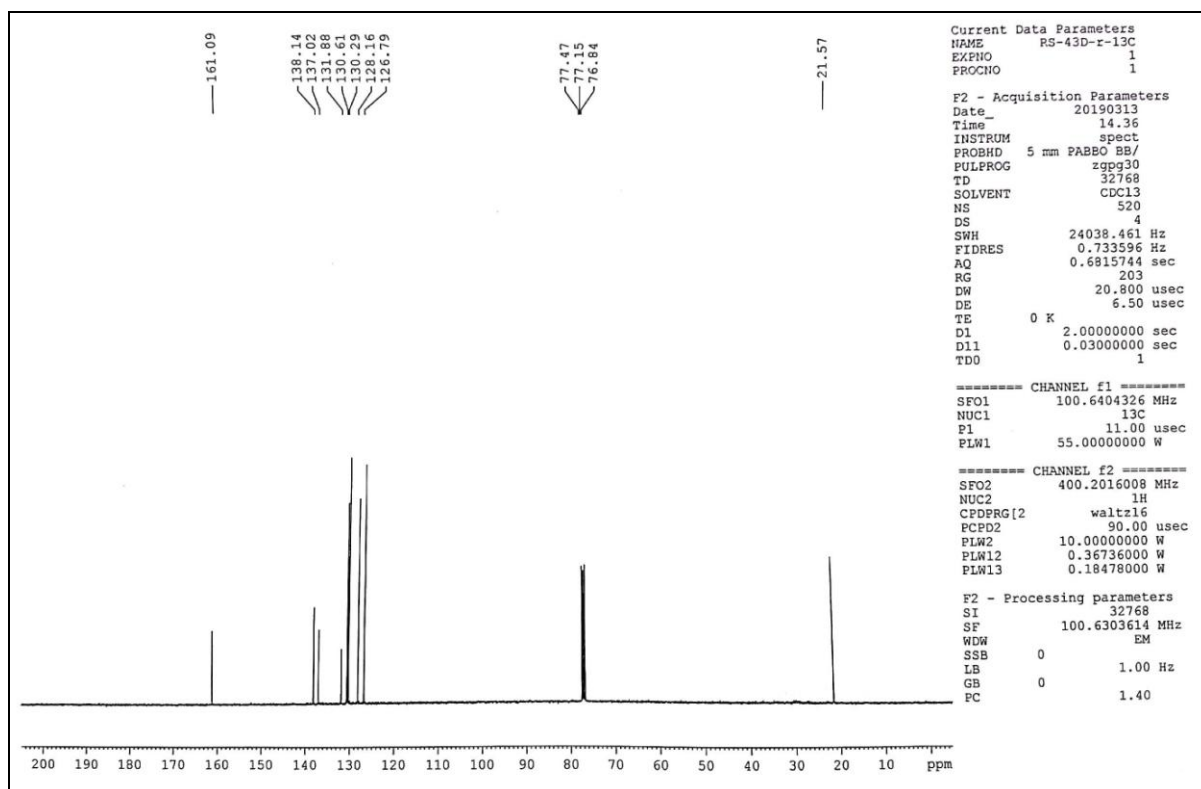
**4,5-Dibromo-3,6-bis(4-methylphenyl) pyridazine (2b):  $^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz)**



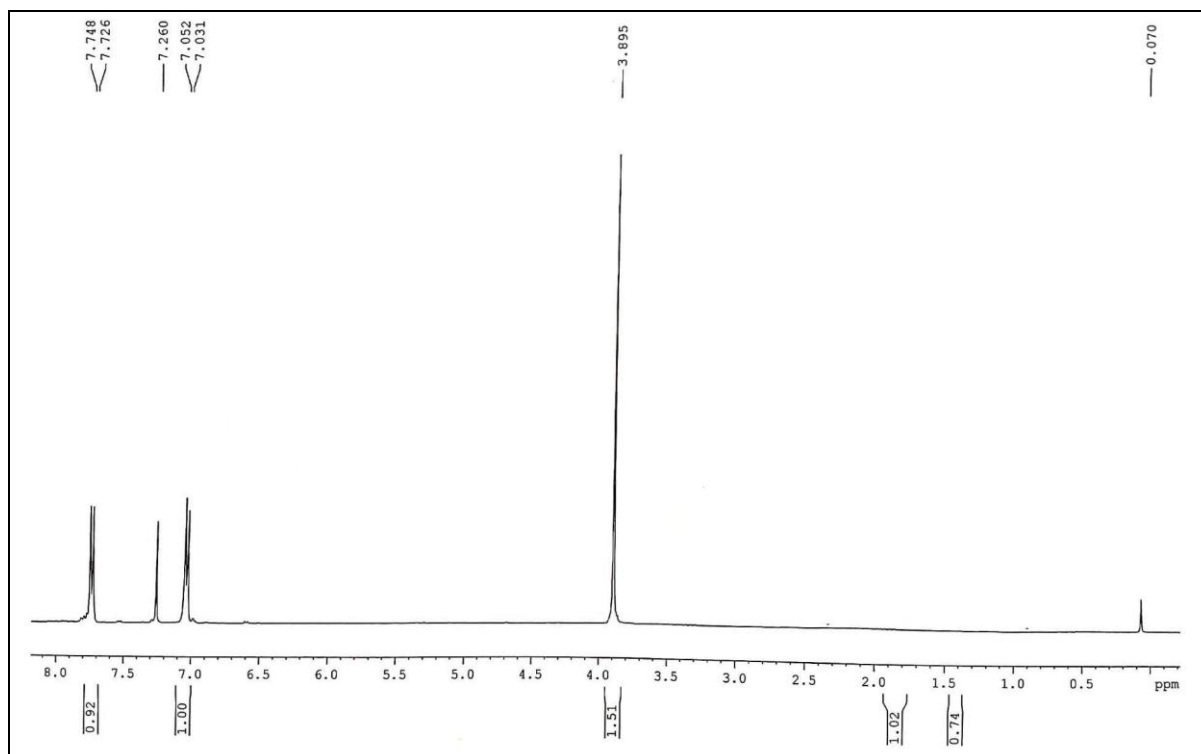
**4,5-Dibromo-3,6-bis(3-methylphenyl) pyridazine (2c):  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz)**



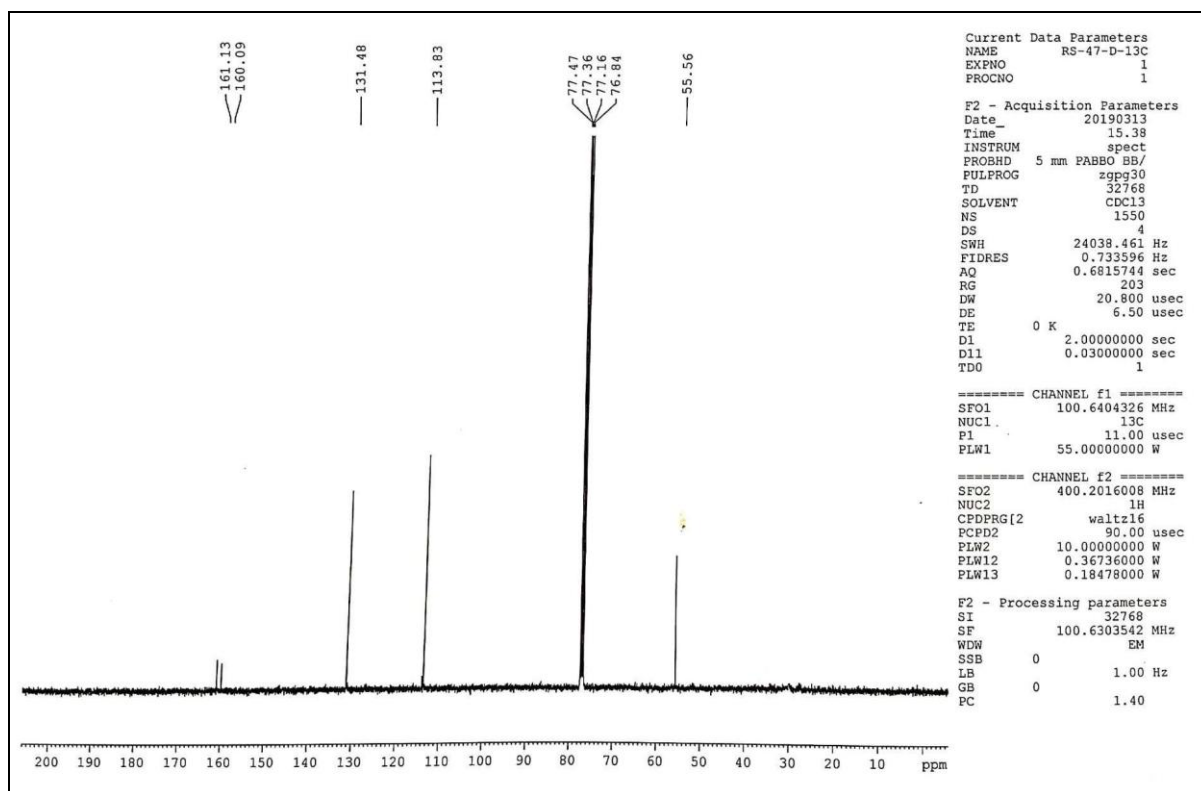
**4,5-Dibromo-3,6-bis(3-methylphenyl) pyridazine (2c):  $^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz)**



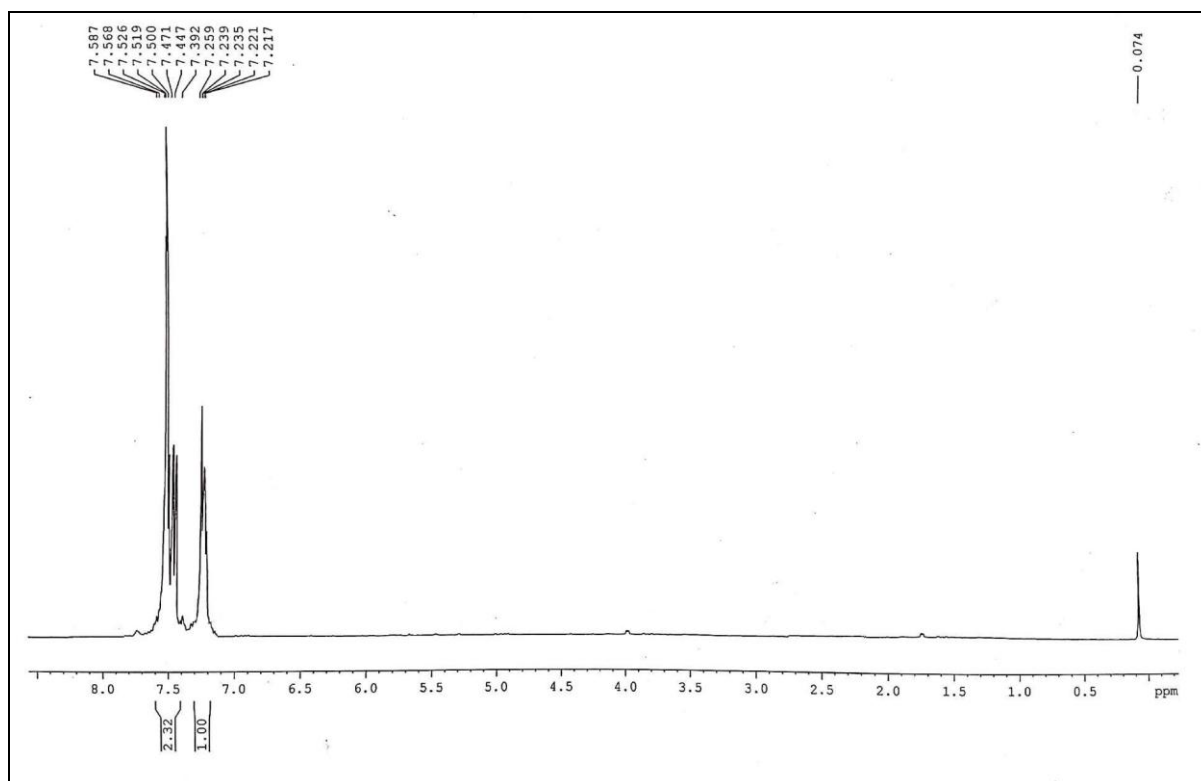
**4,5-Dibromo-3,6-bis(4-methoxyphenyl) pyridazine (2d):  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz)**



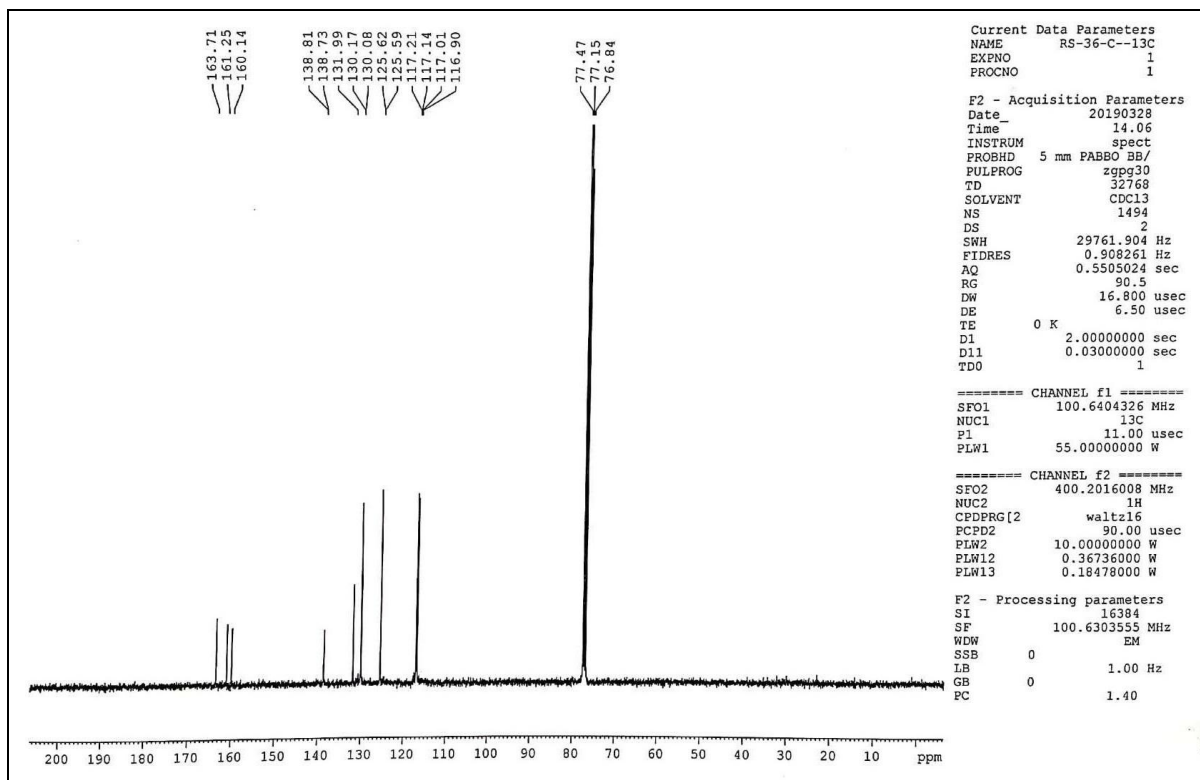
**4,5-Dibromo-3,6-bis(4-methoxyphenyl) pyridazine (2d):  $^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz)**



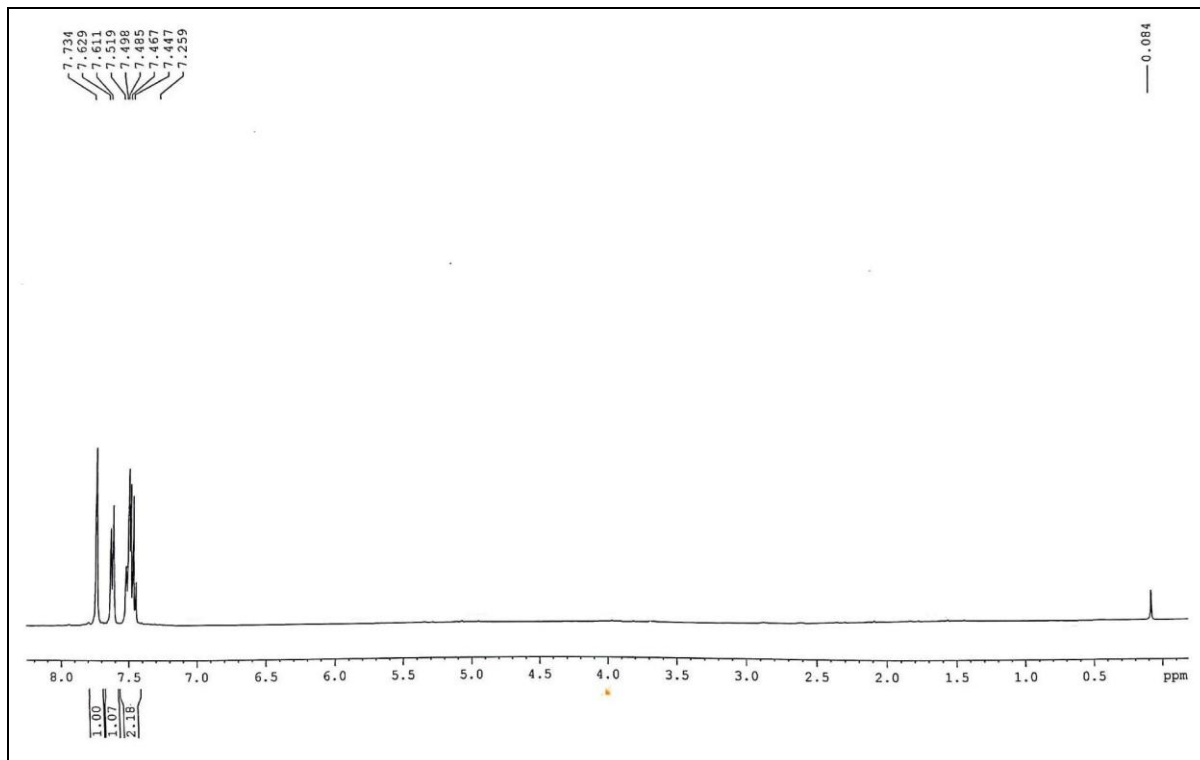
**4,5-Dibromo-3,6-bis(3-fluorophenyl) pyridazine (2e):  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz)**



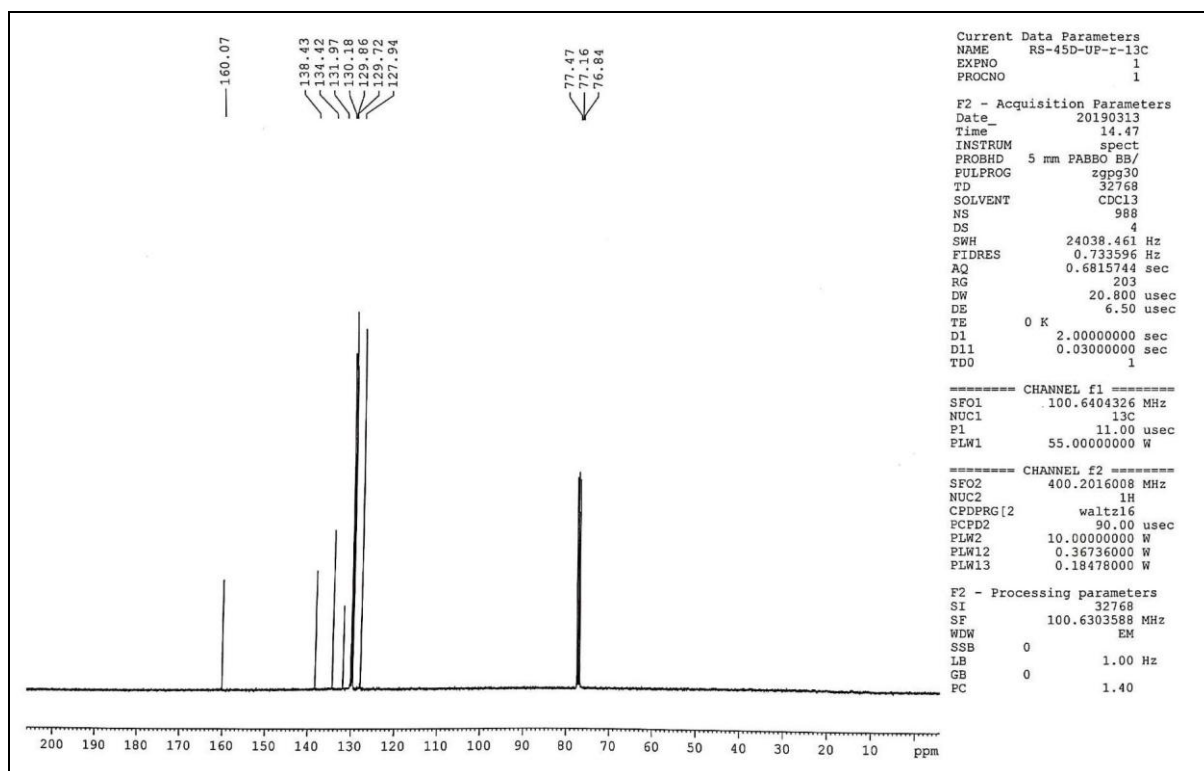
**4,5-Dibromo-3,6-bis(3-fluorophenyl) pyridazine (2e):  $^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz)**



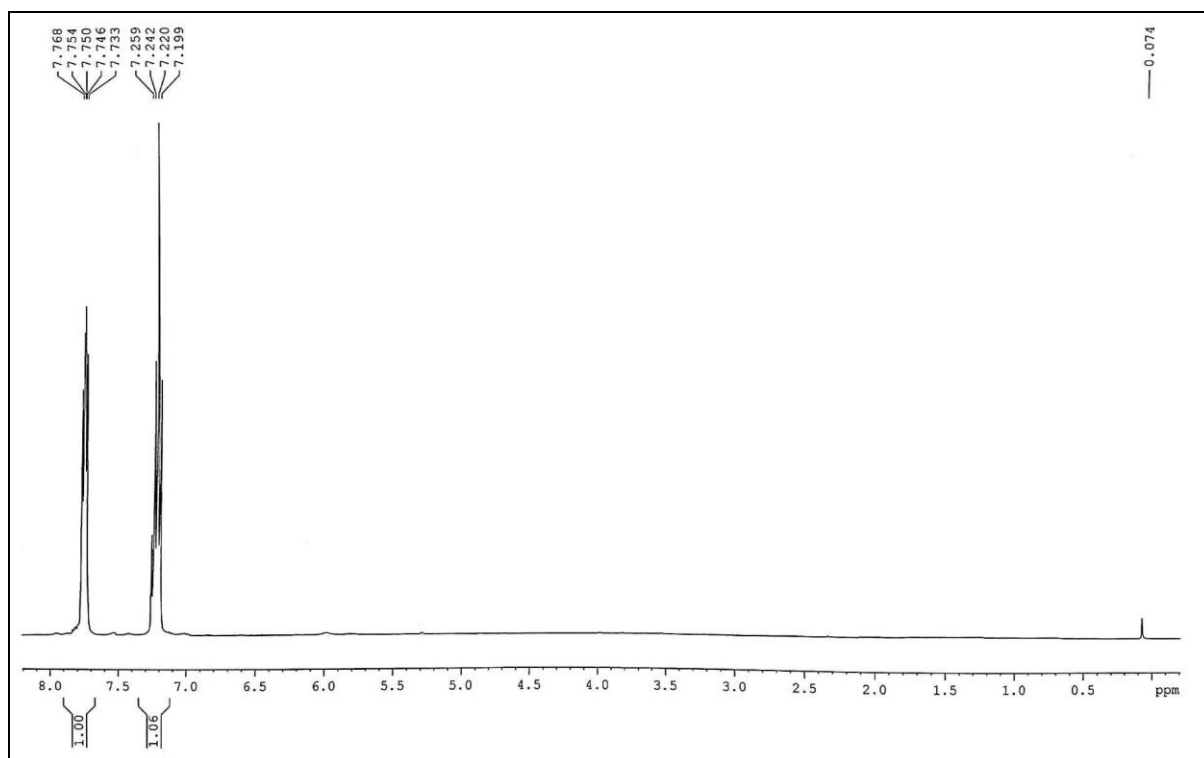
**4,5-Dibromo-3,6-bis(3-chlorophenyl) pyridazine (2f):  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz)**



**4,5-Dibromo-3,6-bis(3-chlorophenyl) pyridazine (2f):  $^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz)**



**4,5-Dibromo-3,6-bis(4-fluorophenyl) pyridazine (2g):  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz)**



4,5-Dibromo-3,6-bis(4-fluorophenyl) pyridazine (2g):  $^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz)

