

## Simple and straight forward synthesis of 2,4-disubstituted quinazolines in aqueous medium

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### COMMUNICATION INFORMATION

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### KEYWORDS

Catalyst free

Aqueous medium

One-pot synthesis

Ammonium acetate

2-Amino carbonyl compounds

2,4-Disubstituted quinazolines

### ABSTRACT

Efficient synthesis of diverse quinazolines from readily available starting materials was achieved in aqueous medium *via* one-pot protocol. A number of 2,4-disubstituted quinazolines were prepared in moderate to good yields under mild and catalyst-free conditions. Neutral reaction conditions, easy work-up procedures with wide substrate scope and atom economy are the remarkable features of this method.

### SUPPLEMENTARY MATERIALS

Table 1 Entry 1: <sup>1</sup>H NMR (500 MHz) :

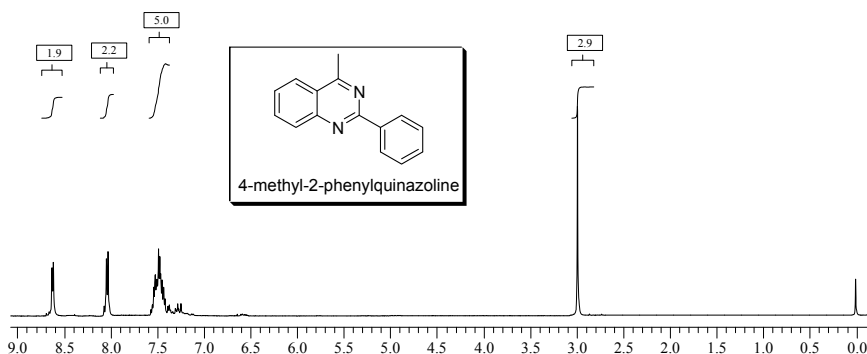


Table 1 Entry 1: <sup>13</sup>C NMR (75 MHz):

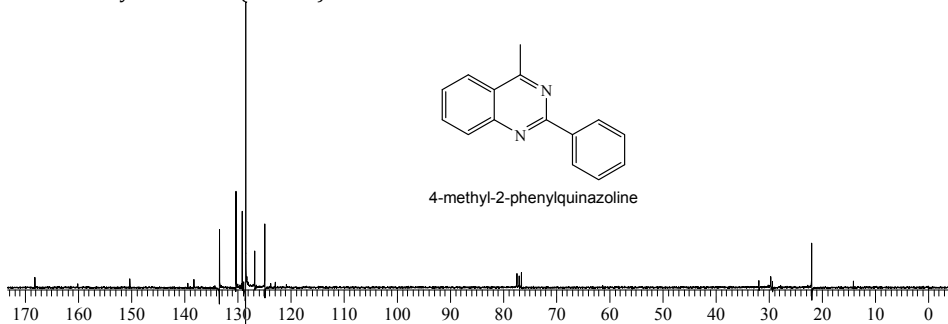


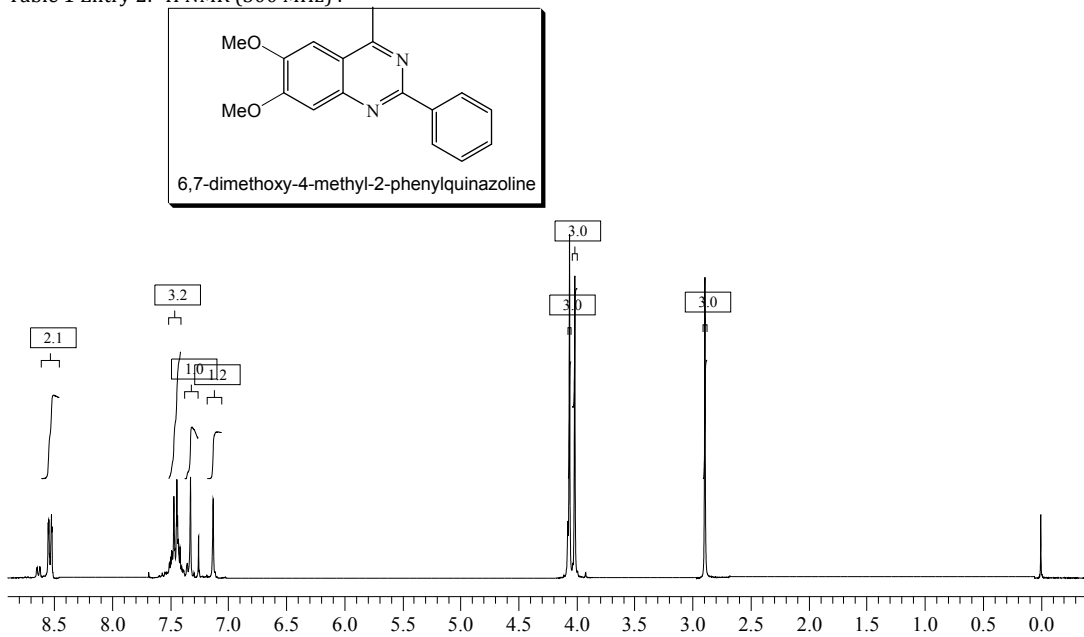
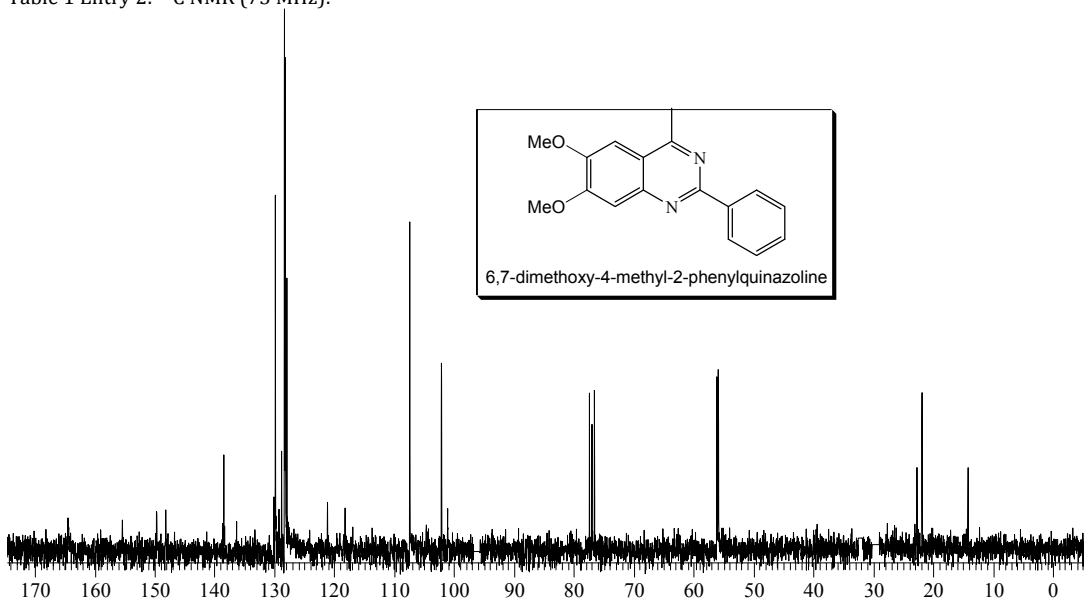
Table 1 Entry 2:  $^1\text{H}$  NMR (300 MHz) :Table 1 Entry 2:  $^{13}\text{C}$  NMR (75 MHz):

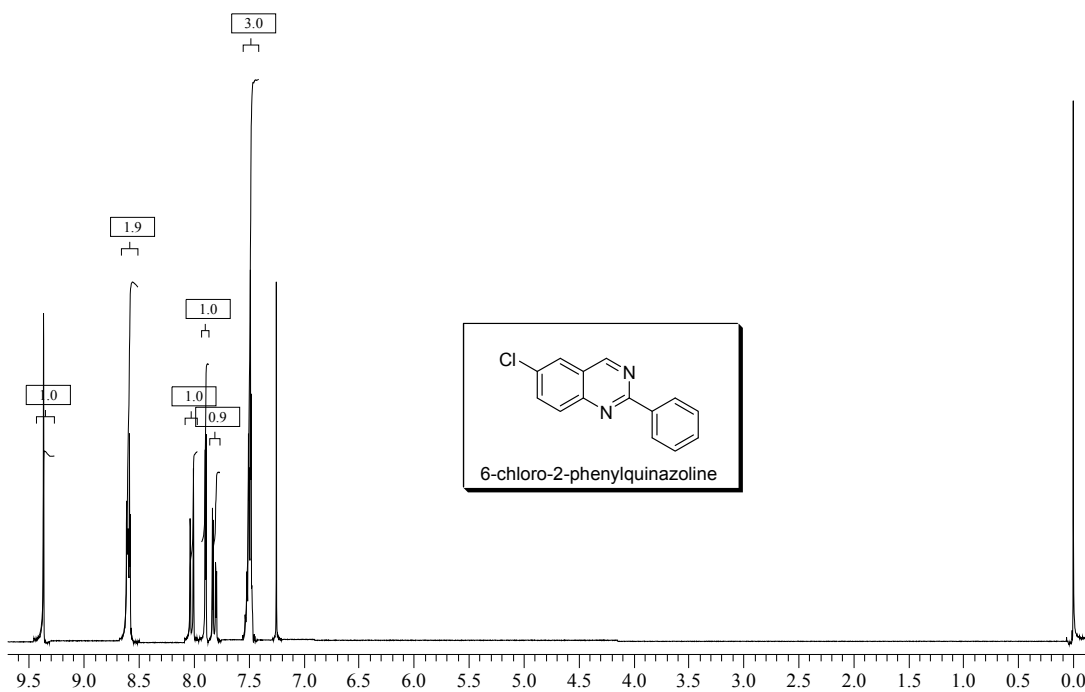
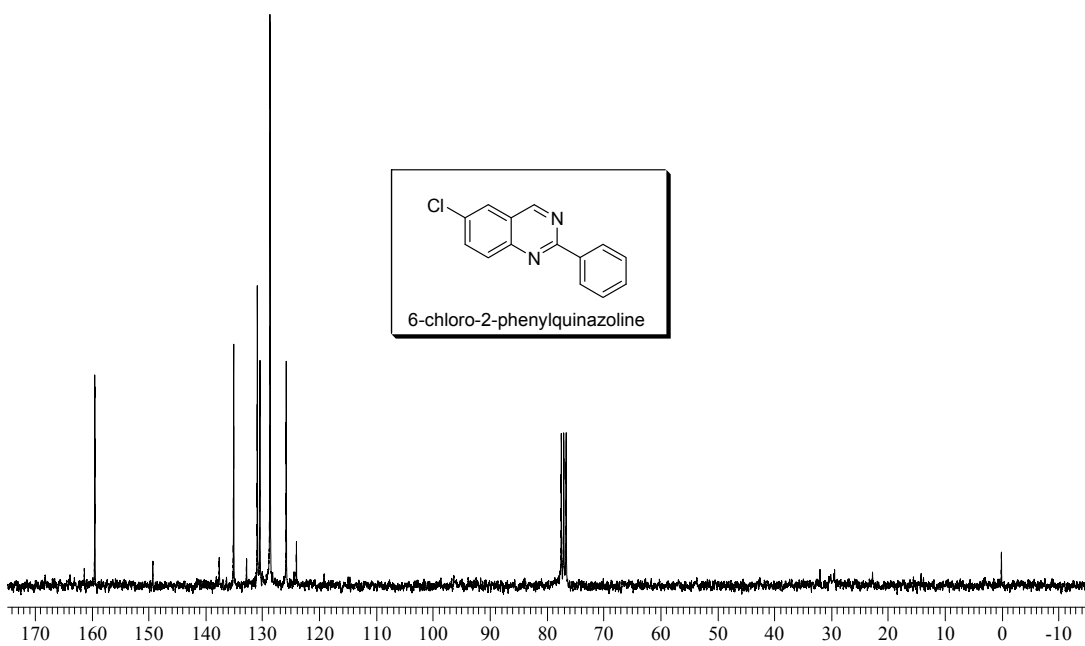
Table 1 Entry 3:  $^1\text{H}$  NMR (300 MHz):Table 1 Entry 3:  $^{13}\text{C}$  NMR (75 MHz):

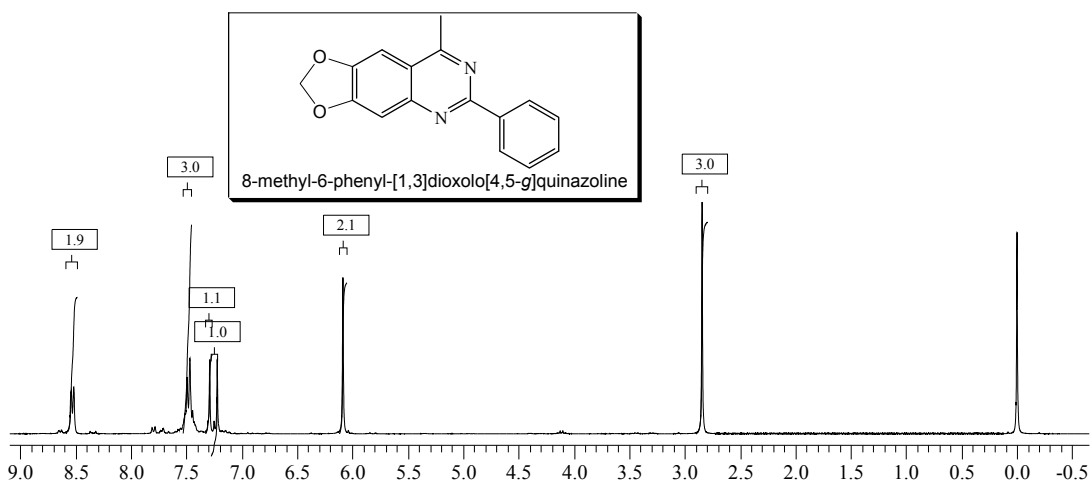
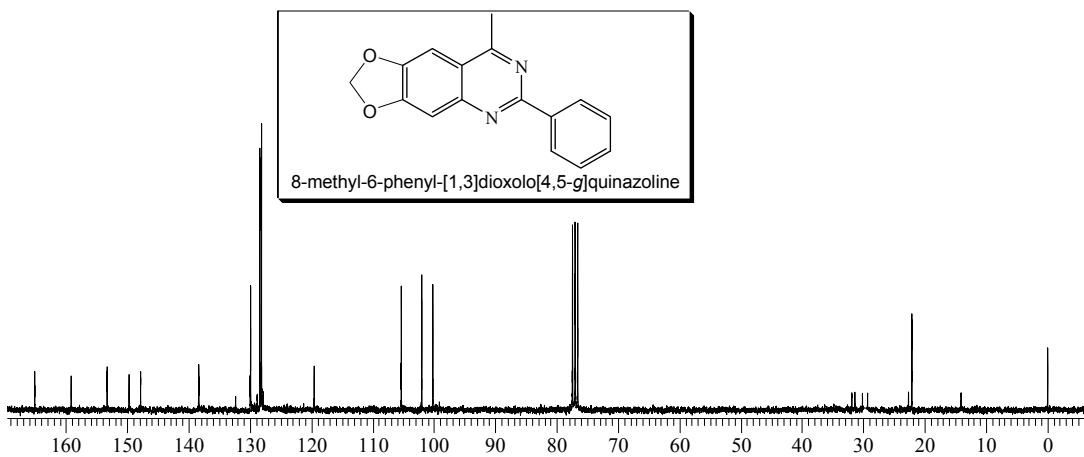
Table 1 Entry 4:  $^1\text{H}$  NMR (300 MHz):Table 1 Entry 4:  $^{13}\text{C}$  NMR (75 MHz):

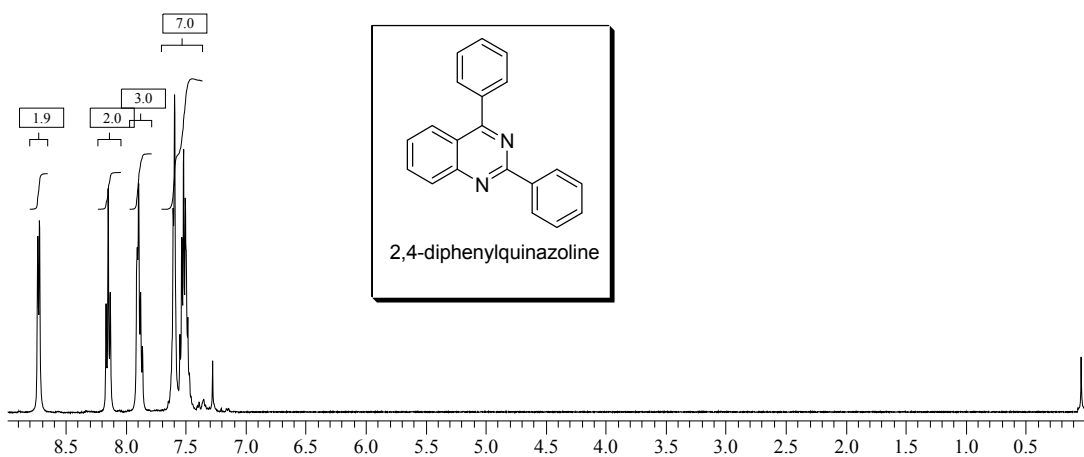
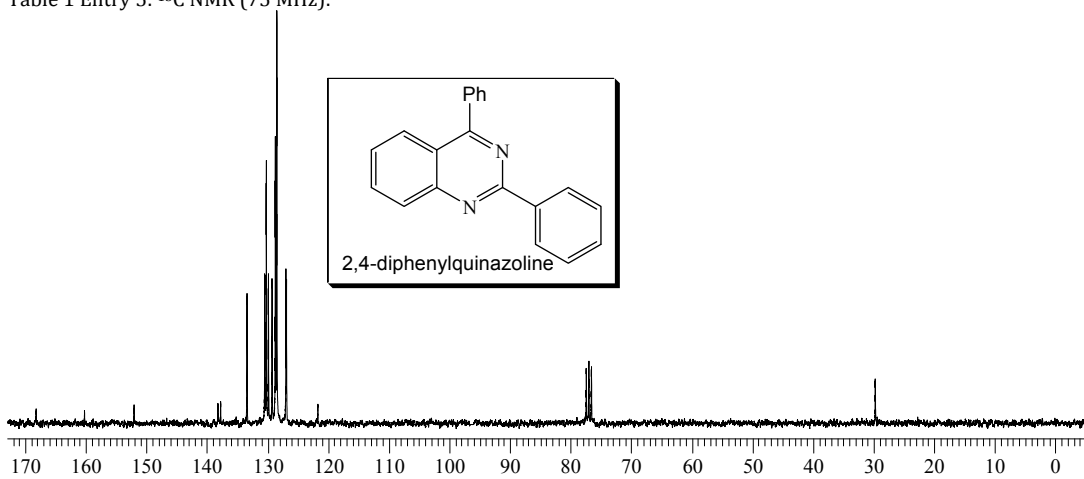
Table 1 Entry 5:  $^1\text{H}$  NMR (500 MHz):Table 1 Entry 5:  $^{13}\text{C}$  NMR (75 MHz):

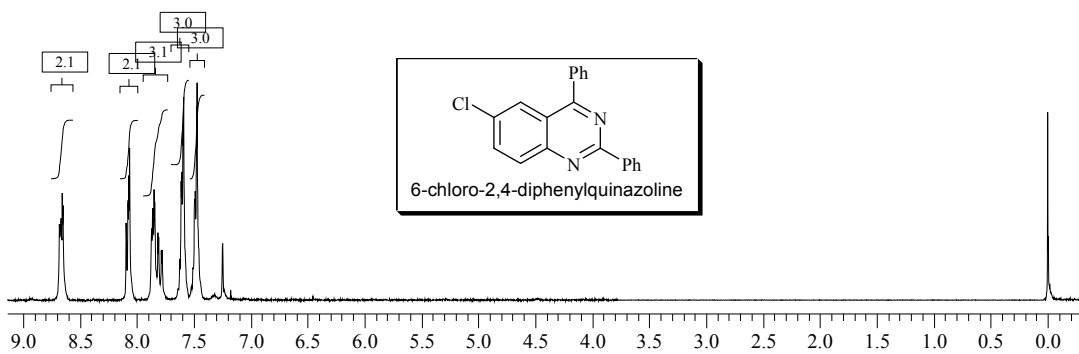
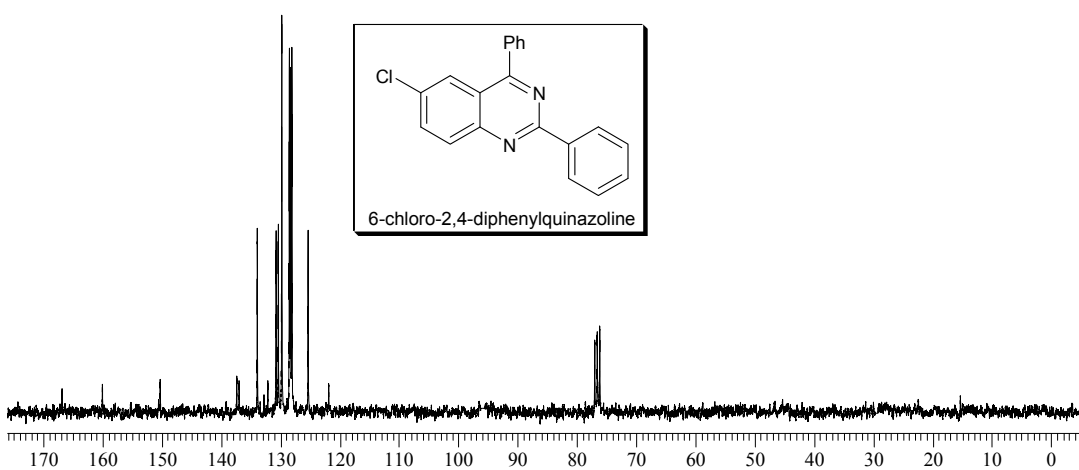
Table 1 Entry 6:  $^1\text{H}$  NMR (300 MHz) :Table 1 Entry 6:  $^{13}\text{C}$  NMR (75 MHz):

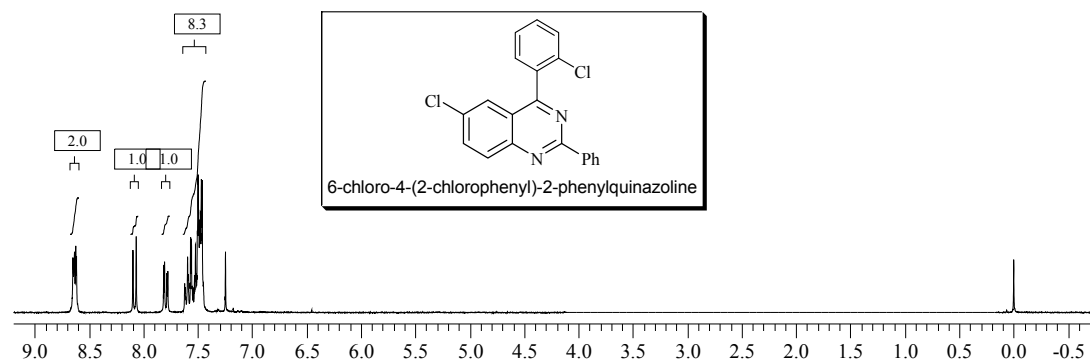
Table 1 Entry 7:  $^1\text{H}$  NMR (300 MHz) :

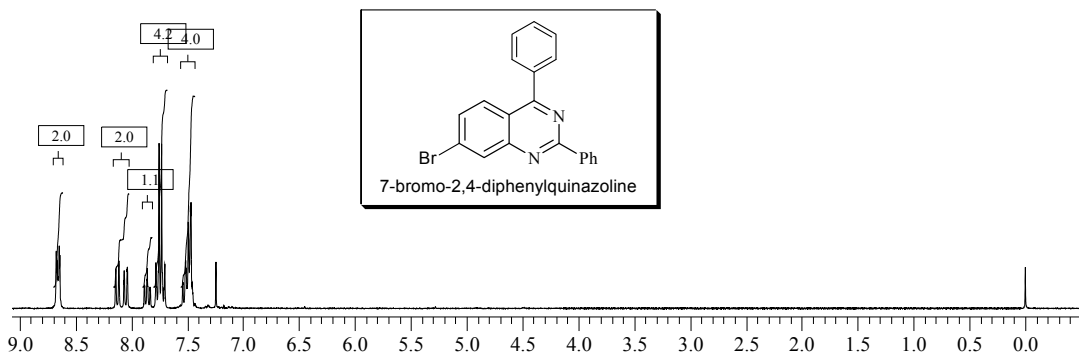
Table 1 Entry 8:  $^1\text{H}$  NMR (300 MHz) :



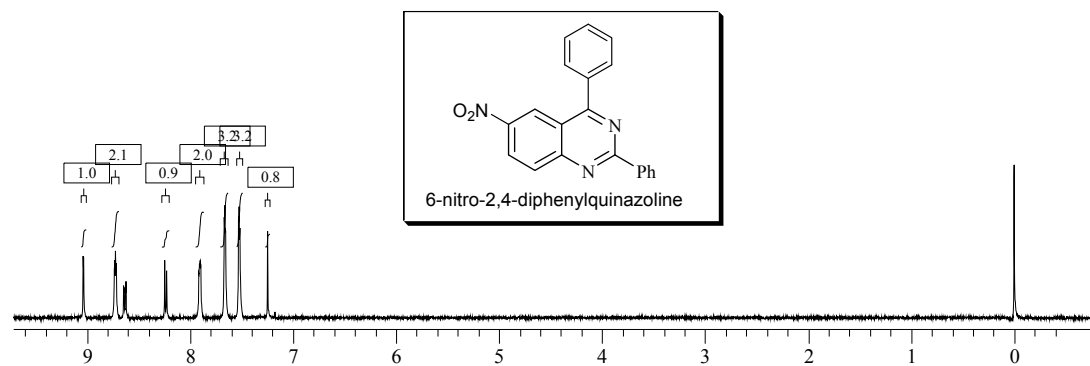
Table 1 Entry 9:  $^1\text{H}$  NMR (300 MHz) :

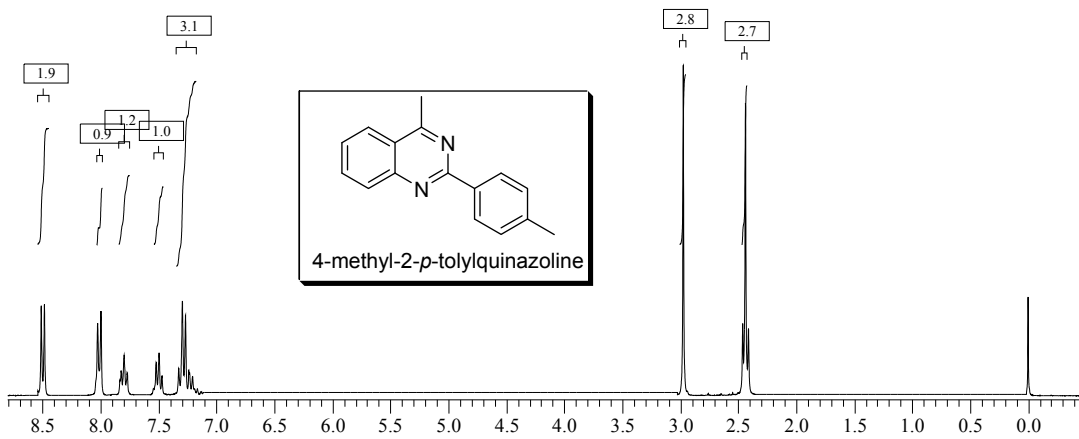
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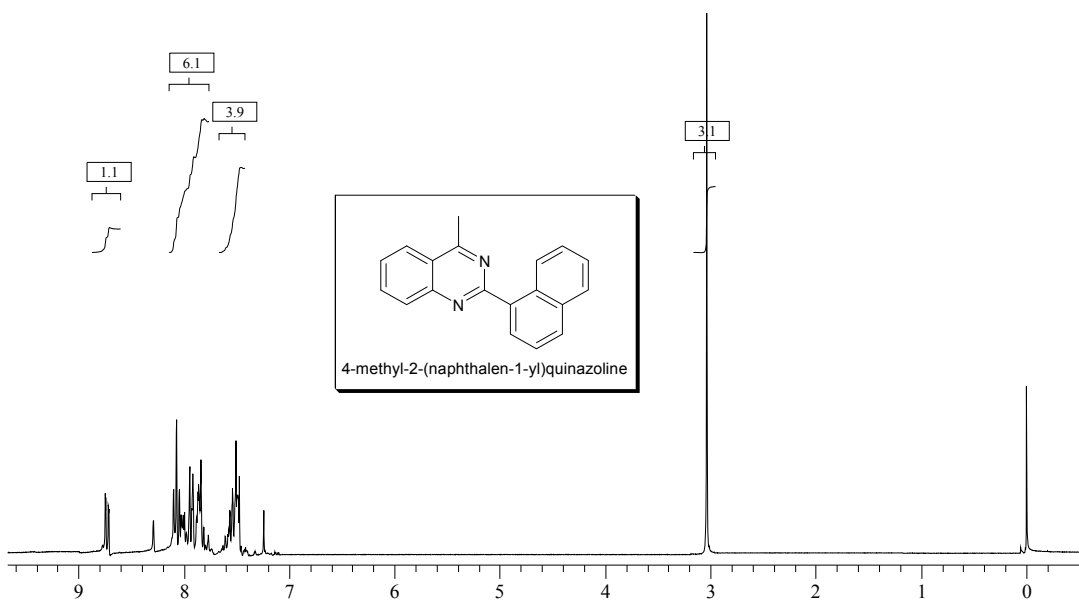
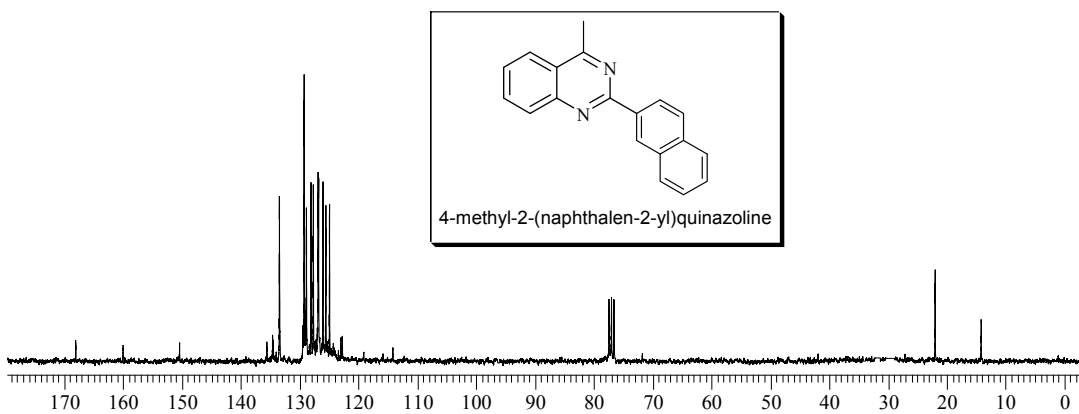
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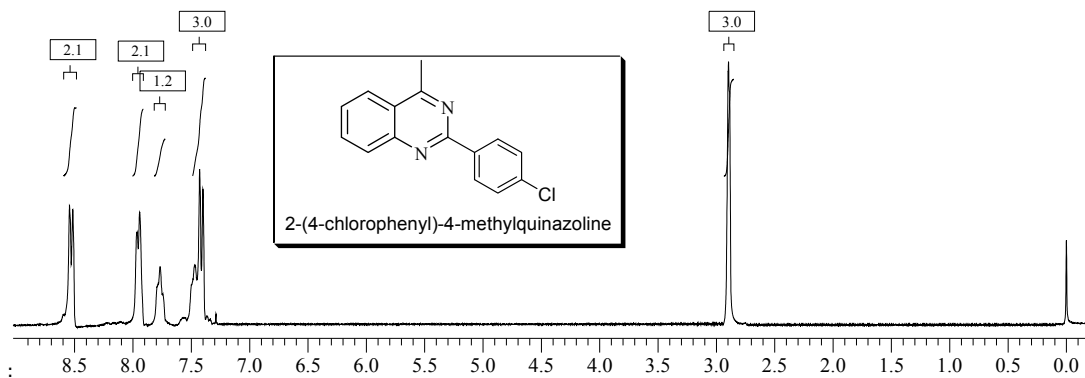
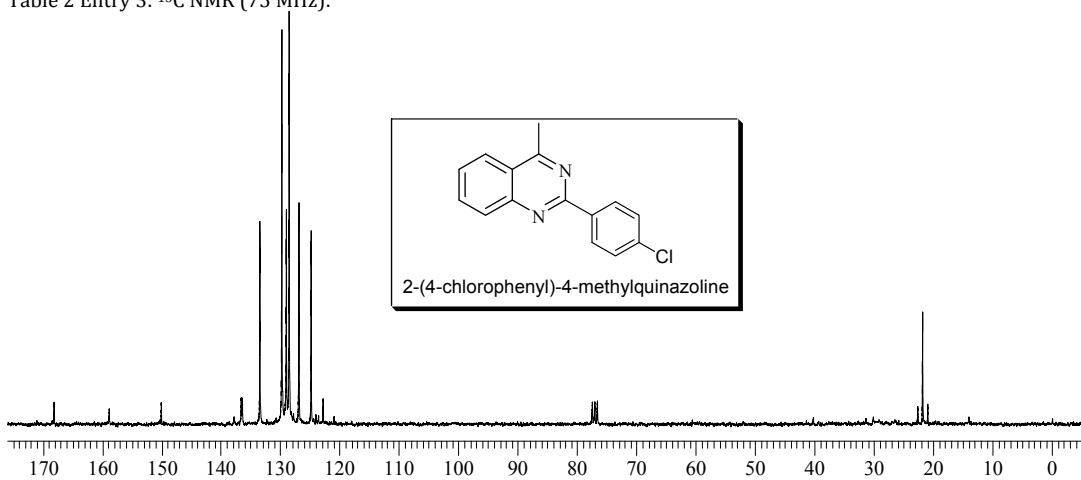
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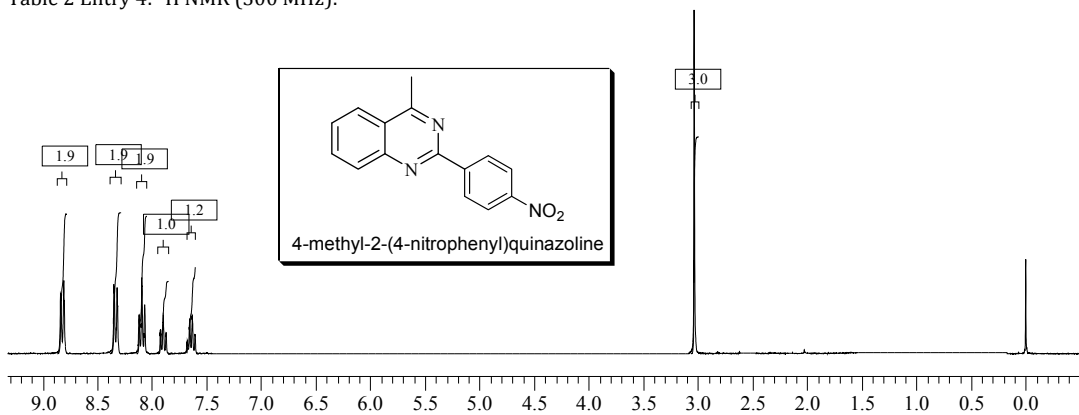
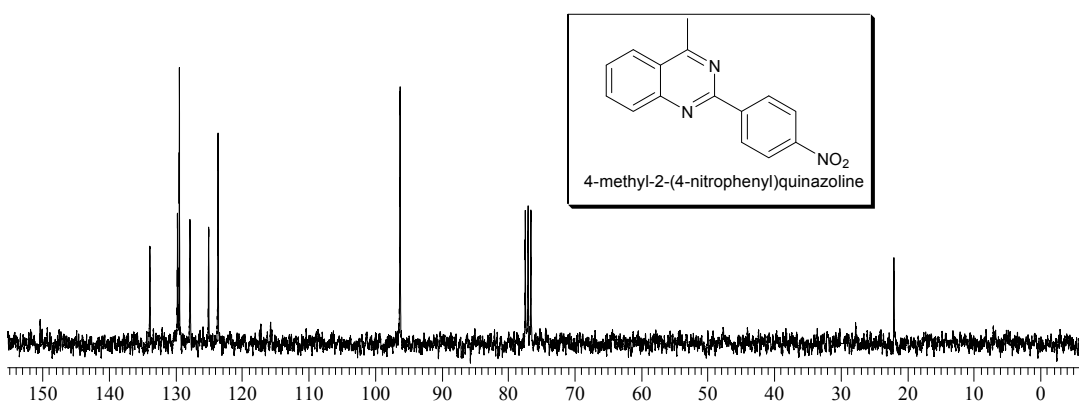
Table 2 Entry 4:  $^1\text{H}$  NMR (300 MHz):Table 2 Entry 4:  $^{13}\text{C}$  NMR (75 MHz):]

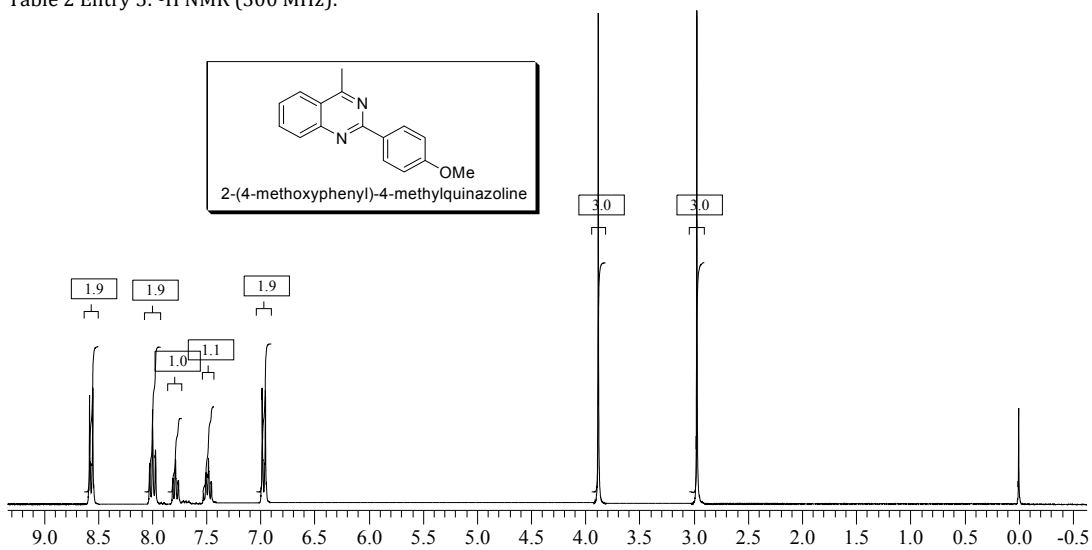
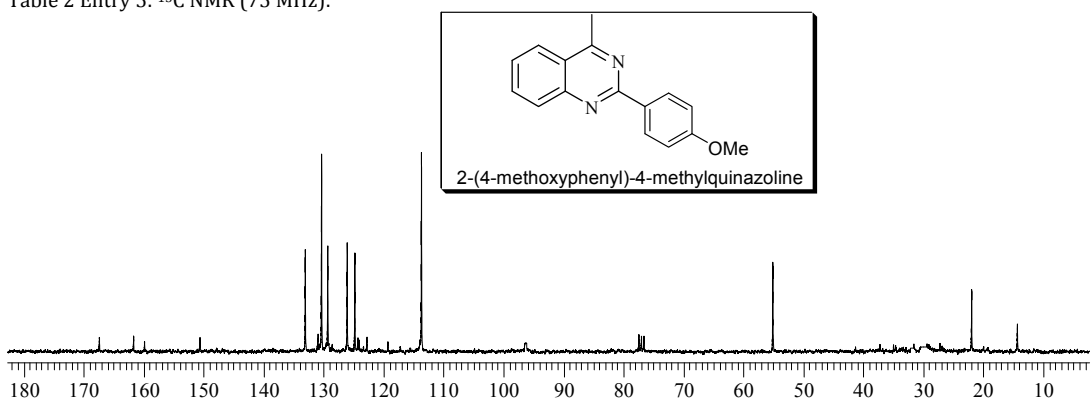
Table 2 Entry 5:  $^1\text{H}$  NMR (300 MHz):Table 2 Entry 5:  $^{13}\text{C}$  NMR (75 MHz):

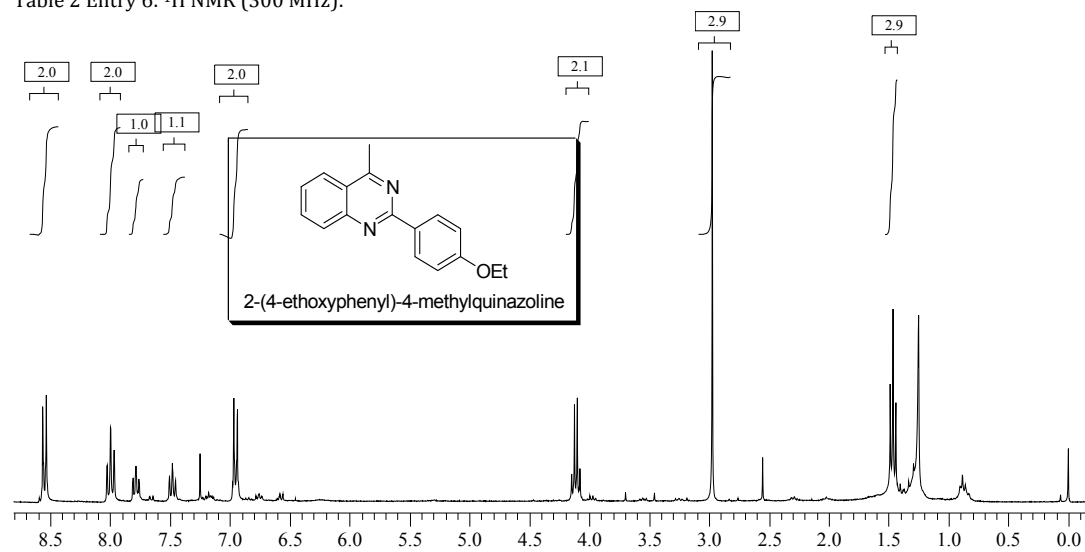
Table 2 Entry 6:  $^1\text{H}$  NMR (300 MHz):

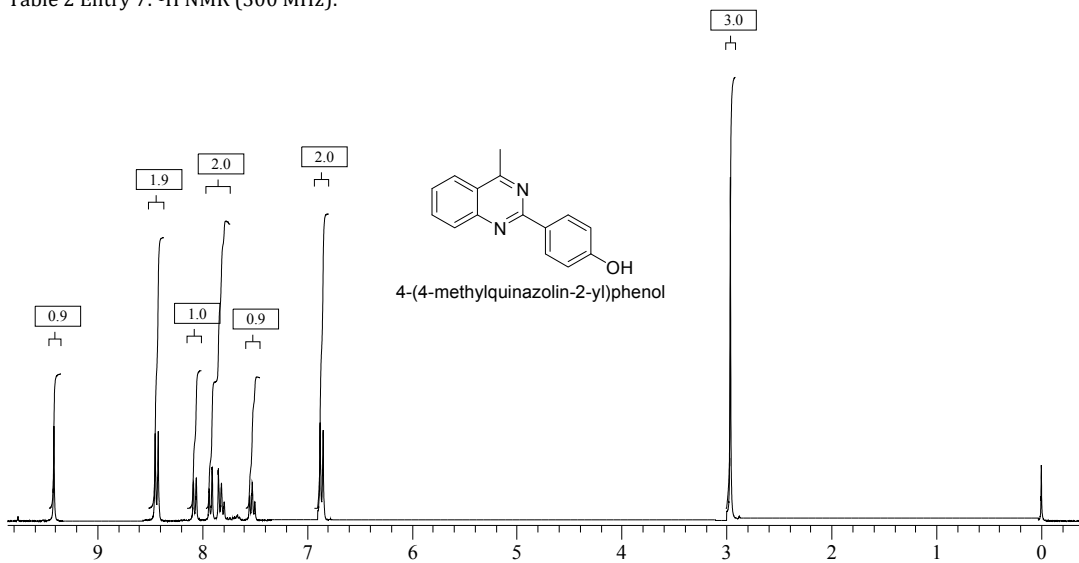
Table 2 Entry 7: <sup>1</sup>H NMR (300 MHz):



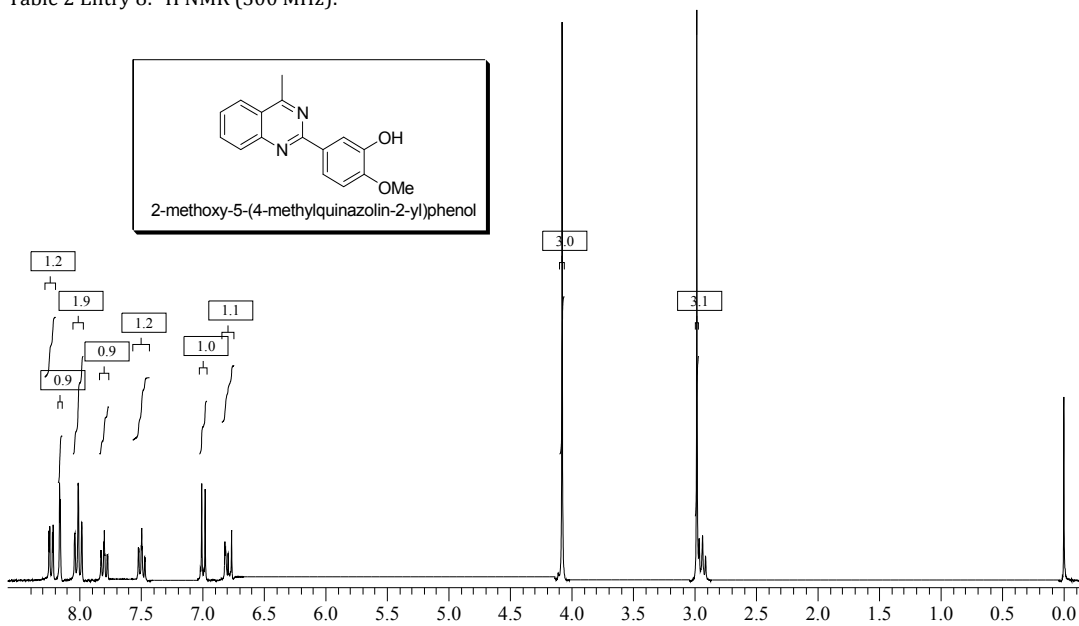
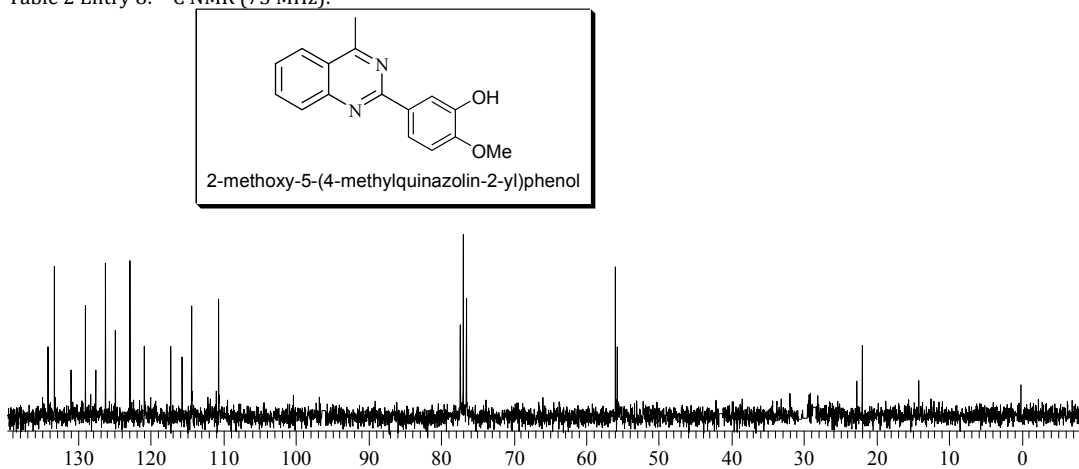
Table 2 Entry 8:  $^1\text{H}$  NMR (300 MHz):Table 2 Entry 8:  $^{13}\text{C}$  NMR (75 MHz):

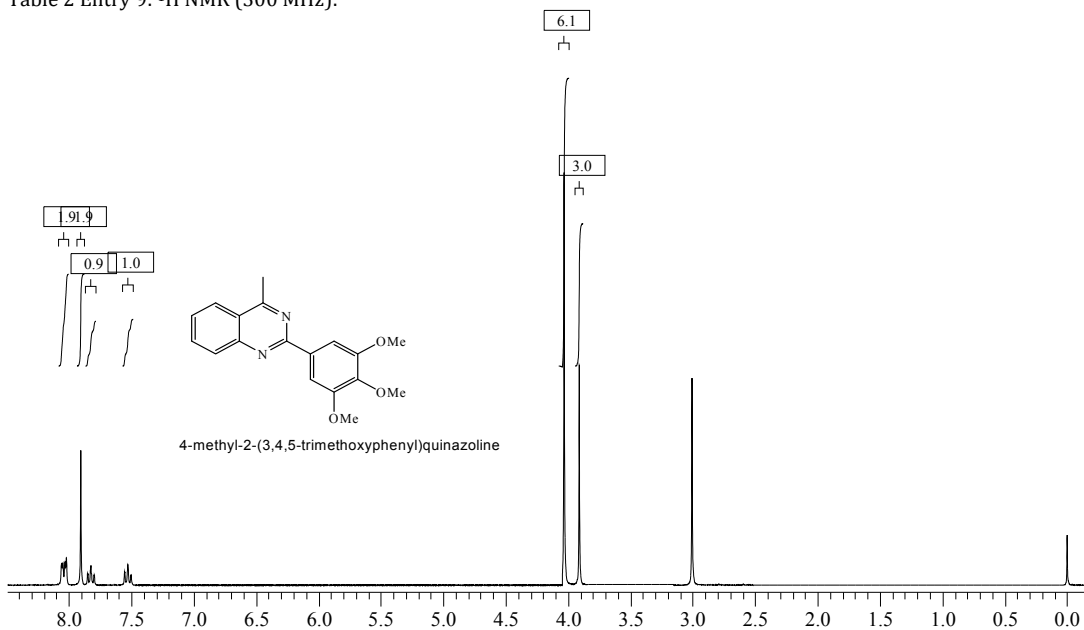
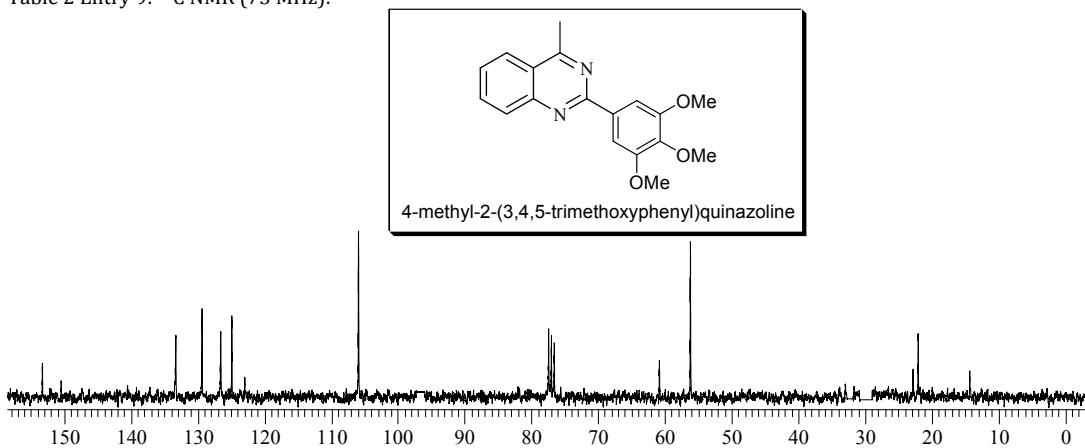
Table 2 Entry 9:  $^1\text{H}$  NMR (300 MHz):Table 2 Entry 9:  $^{13}\text{C}$  NMR (75 MHz):

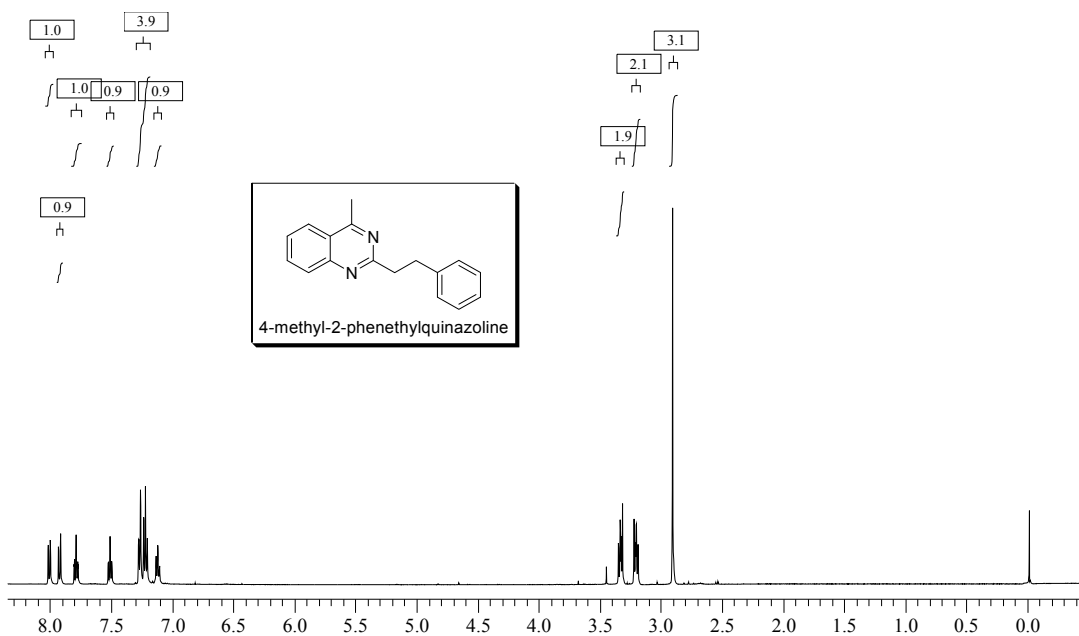
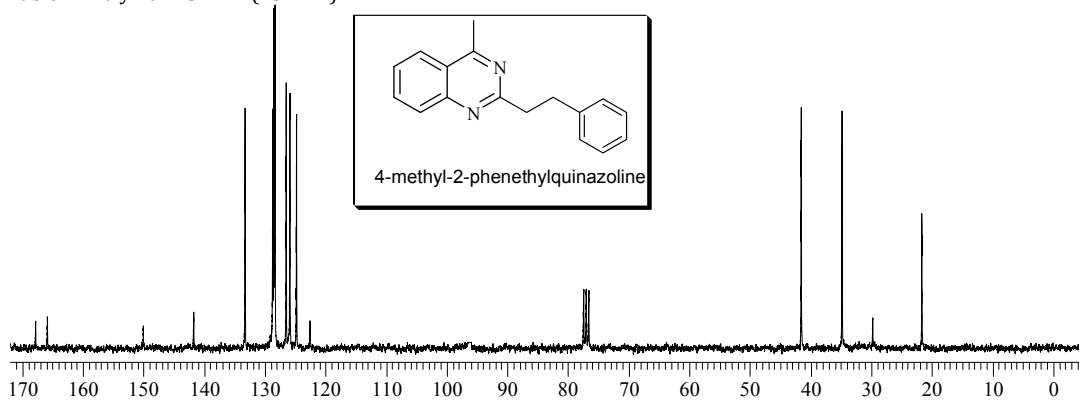
Table 2 Entry 10:  $^1\text{H}$  NMR (500 MHz):Table 2 Entry 10:  $^{13}\text{C}$  NMR (75 MHz):

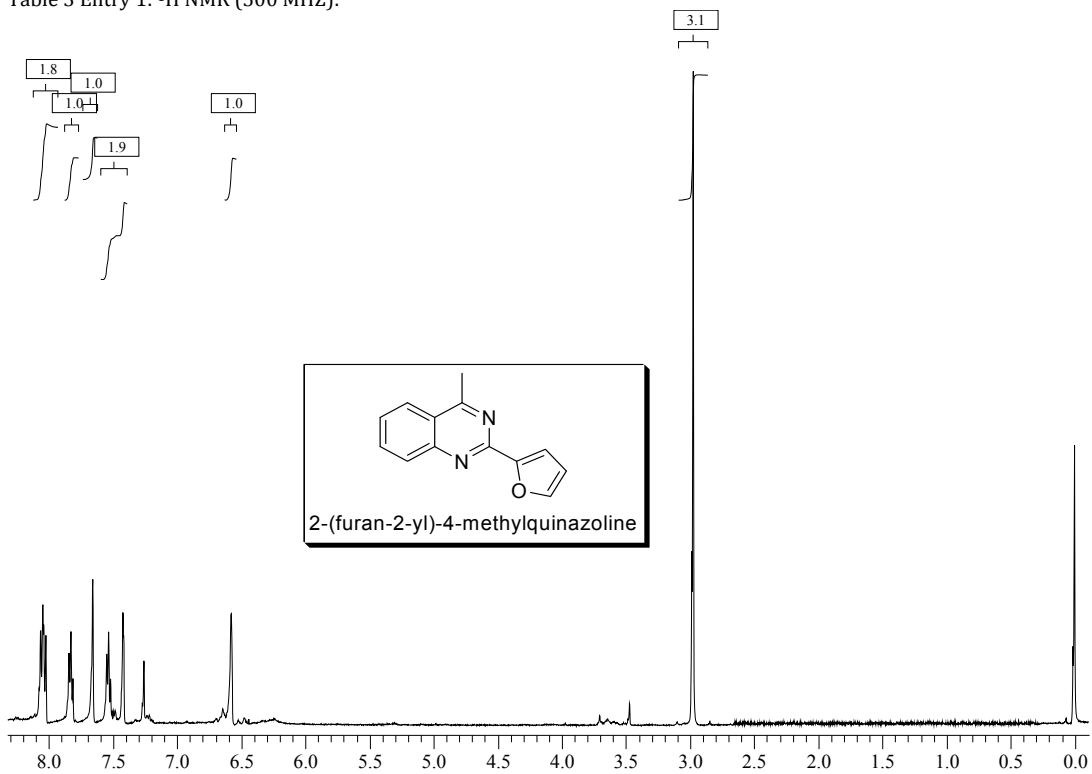
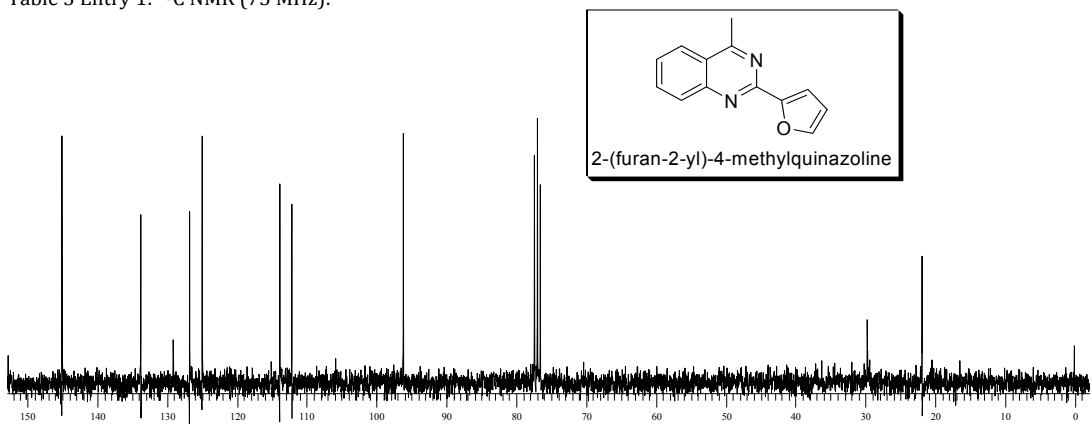
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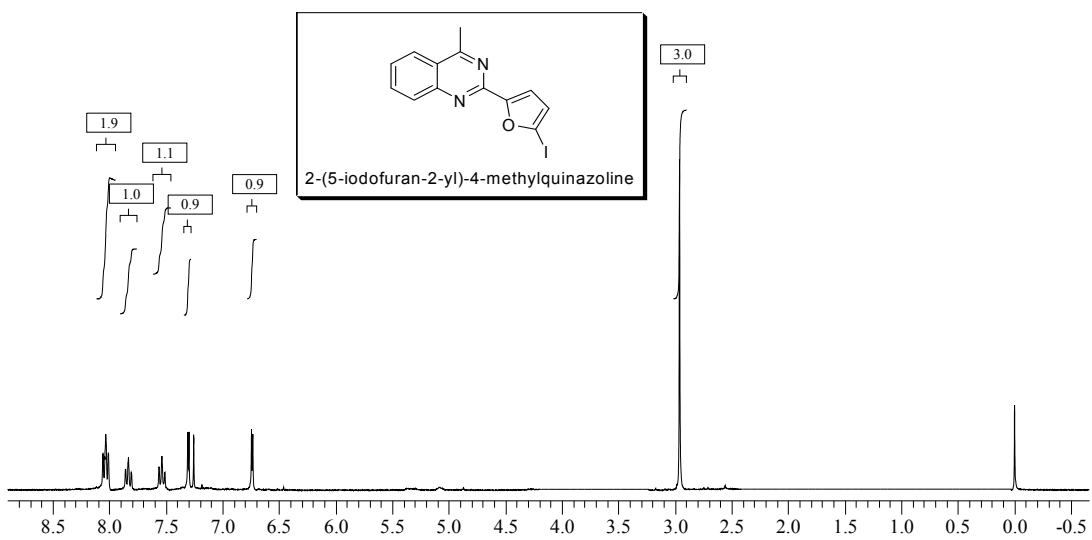
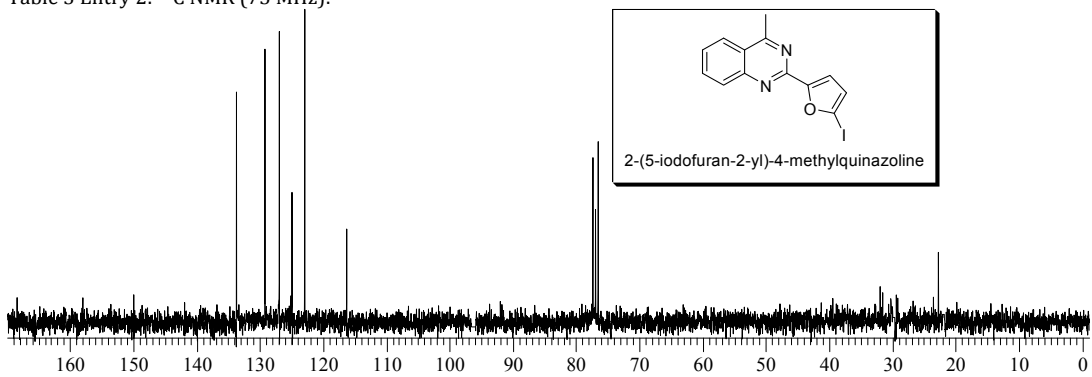
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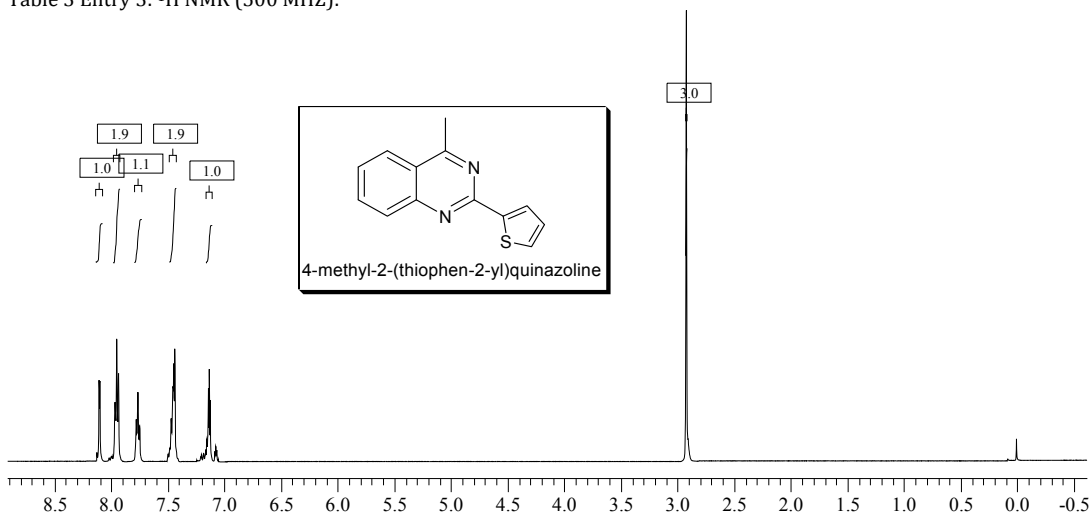
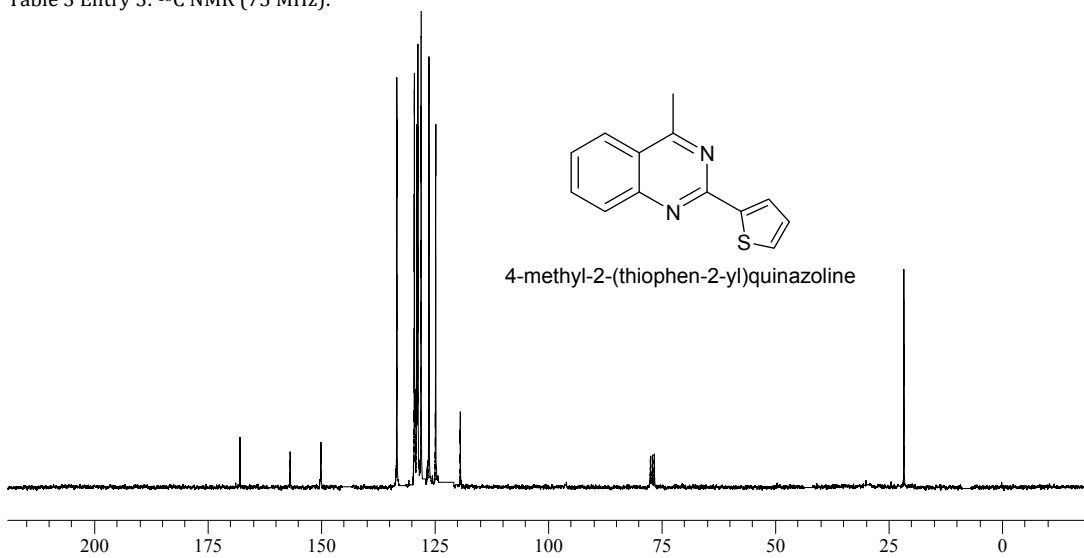
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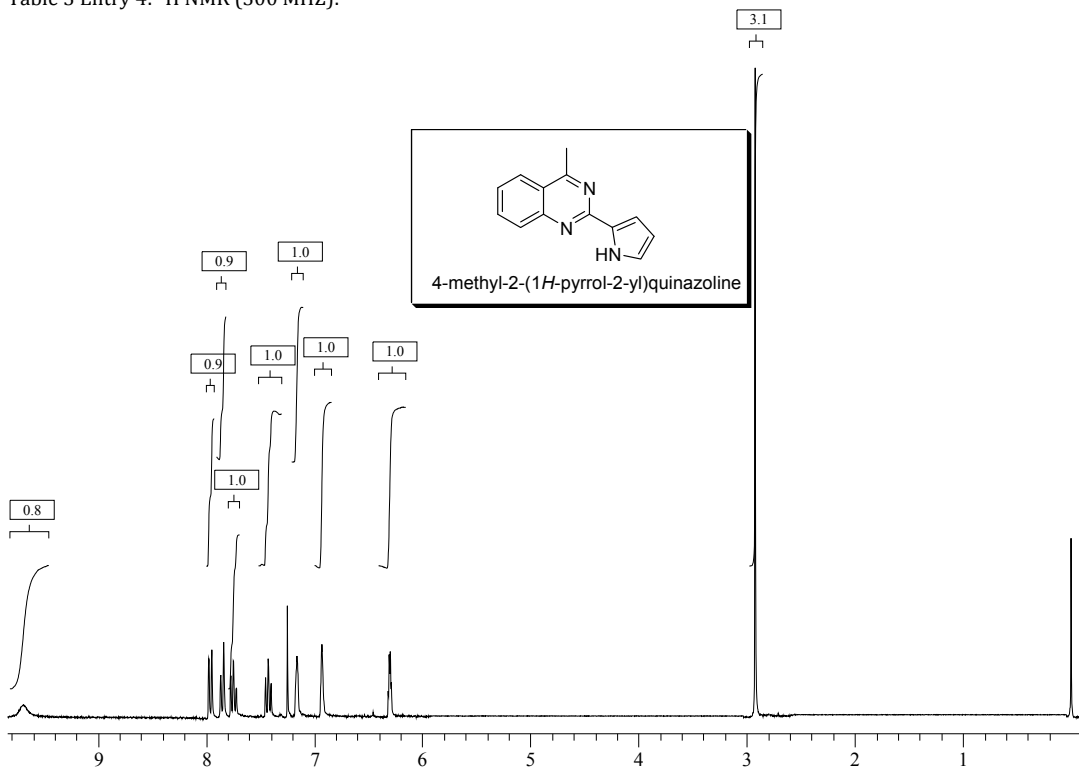
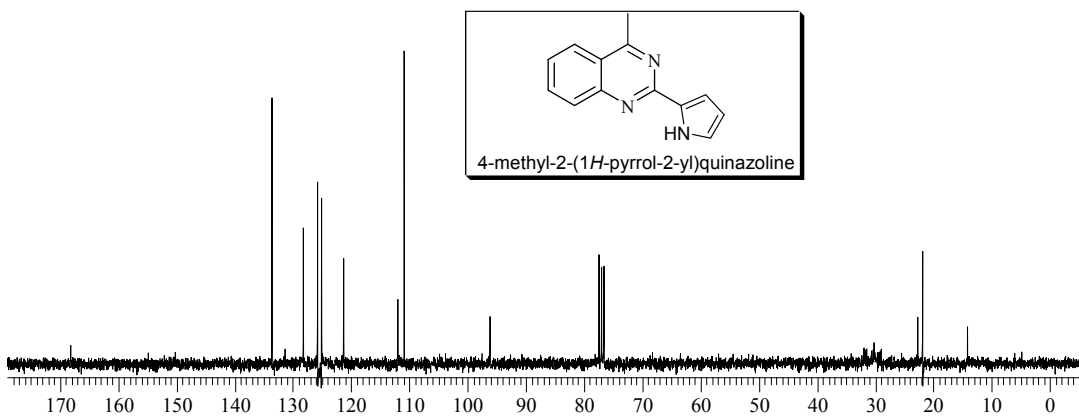
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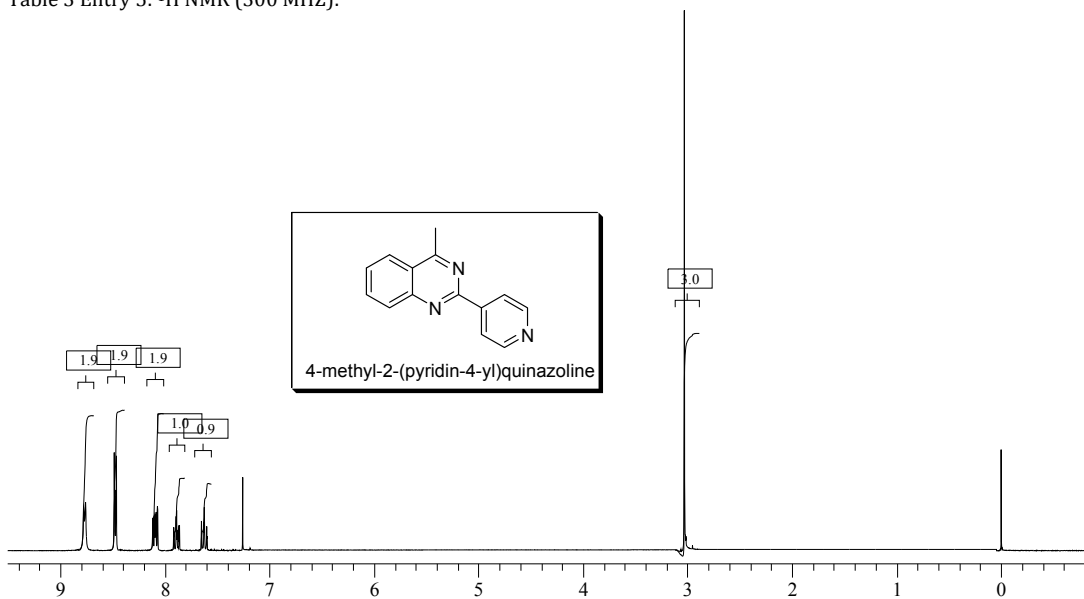
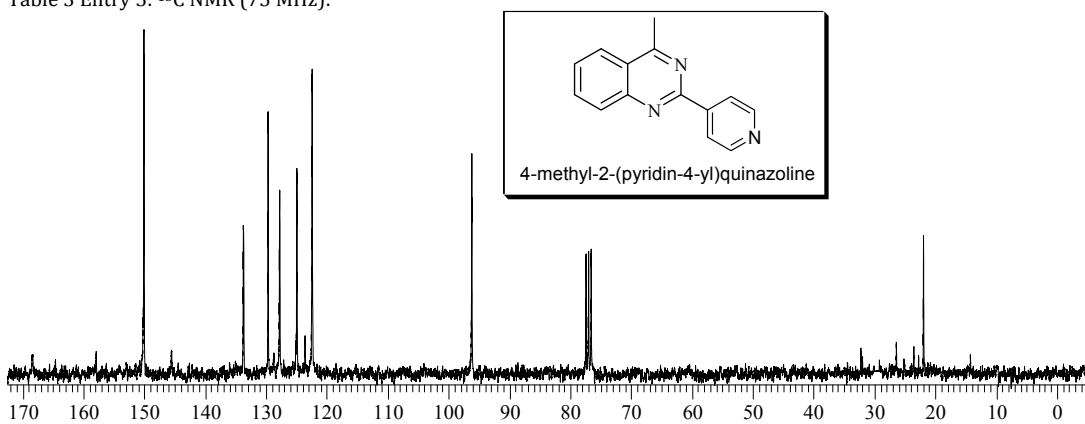
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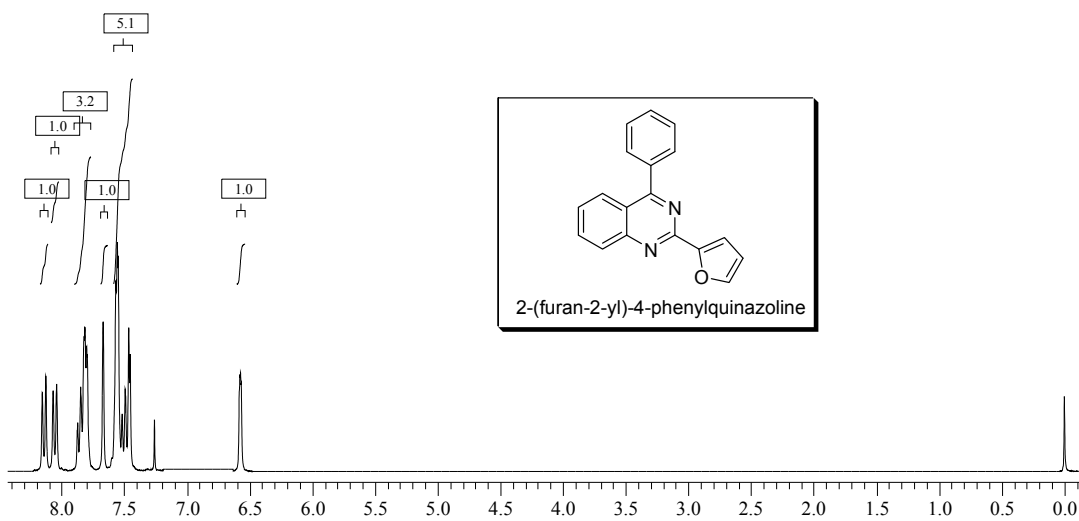
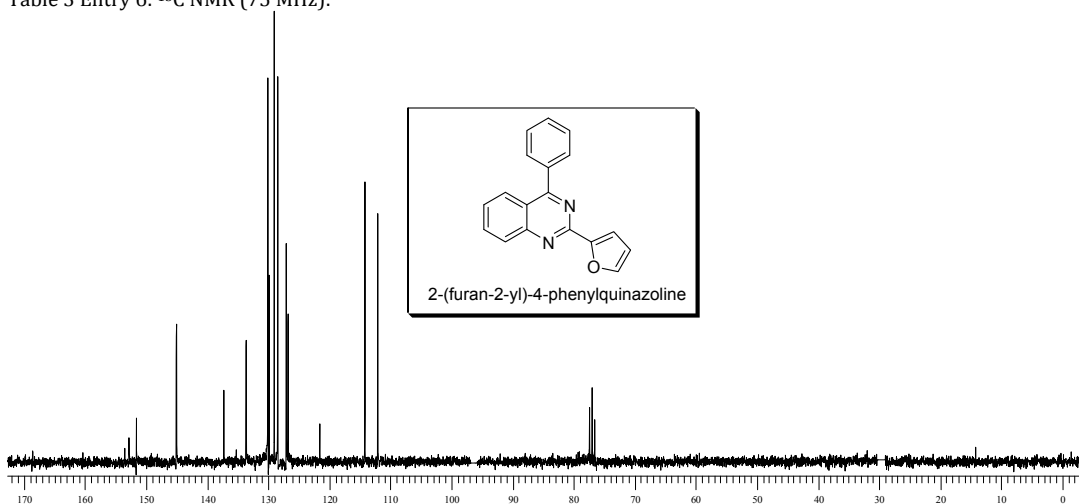
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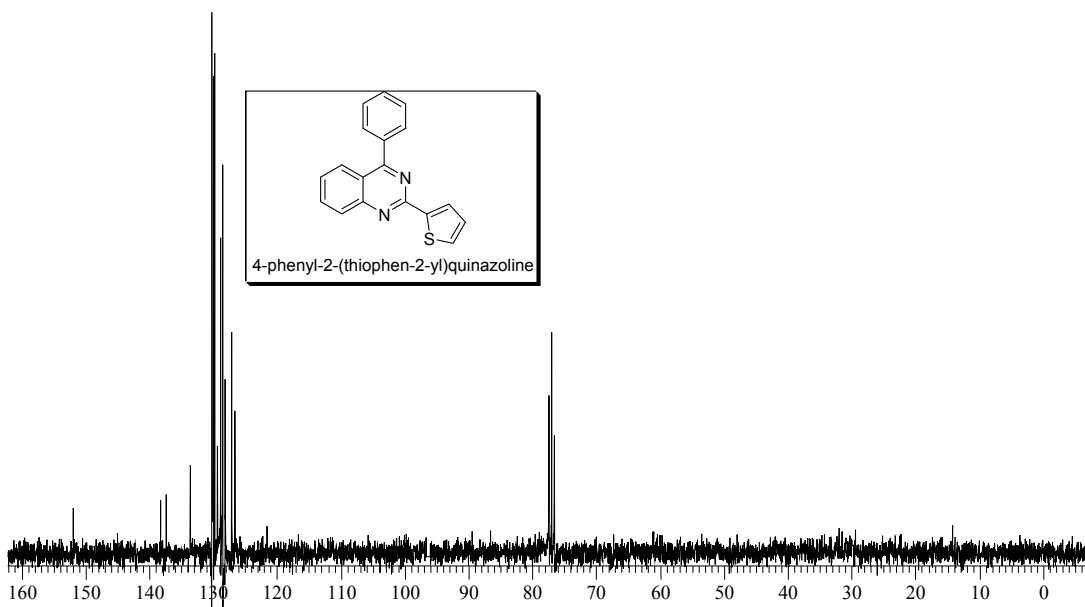
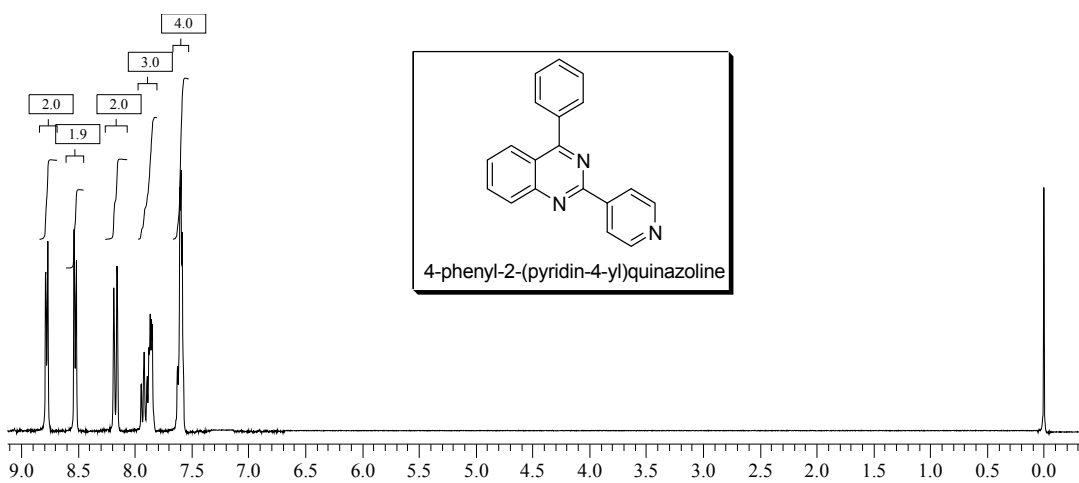
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