

Supplementary Information

Synthesis and molecular docking studies of 3-methyl-1,4-diarylazetidines

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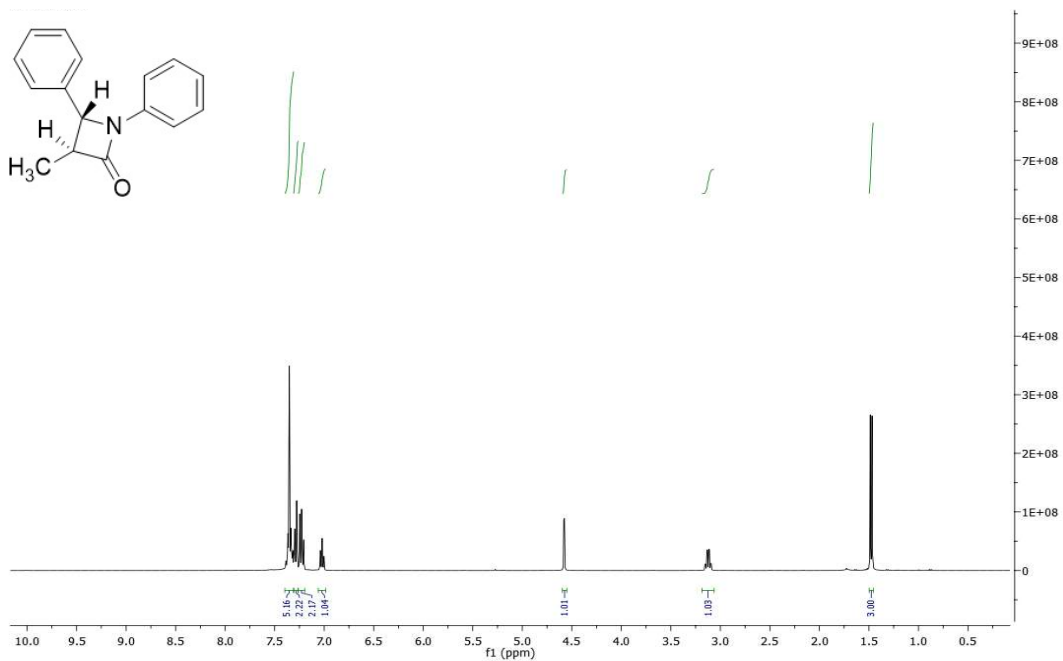
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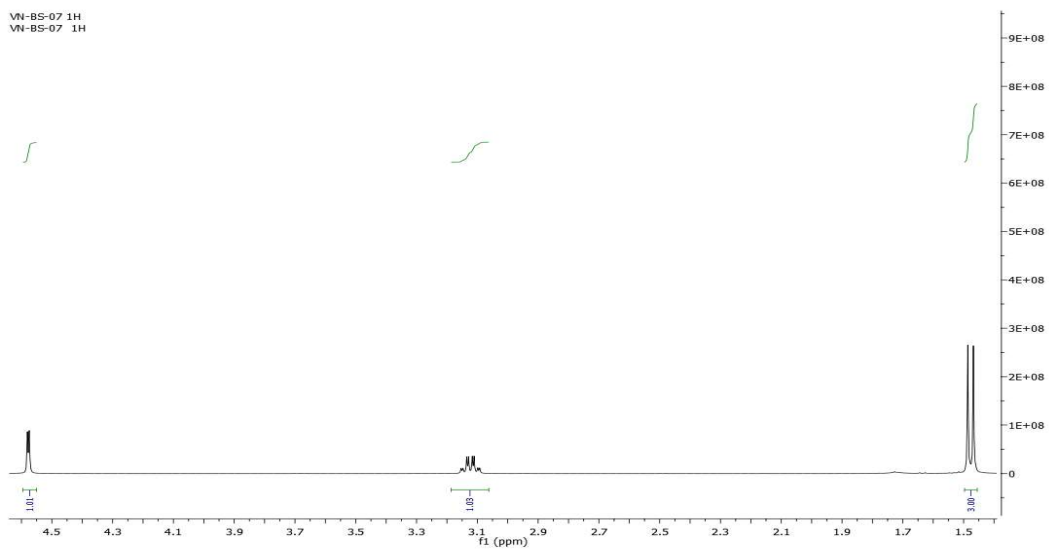
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Trans-3-methyl-1,4-diphenylazetid-2-one (2a):

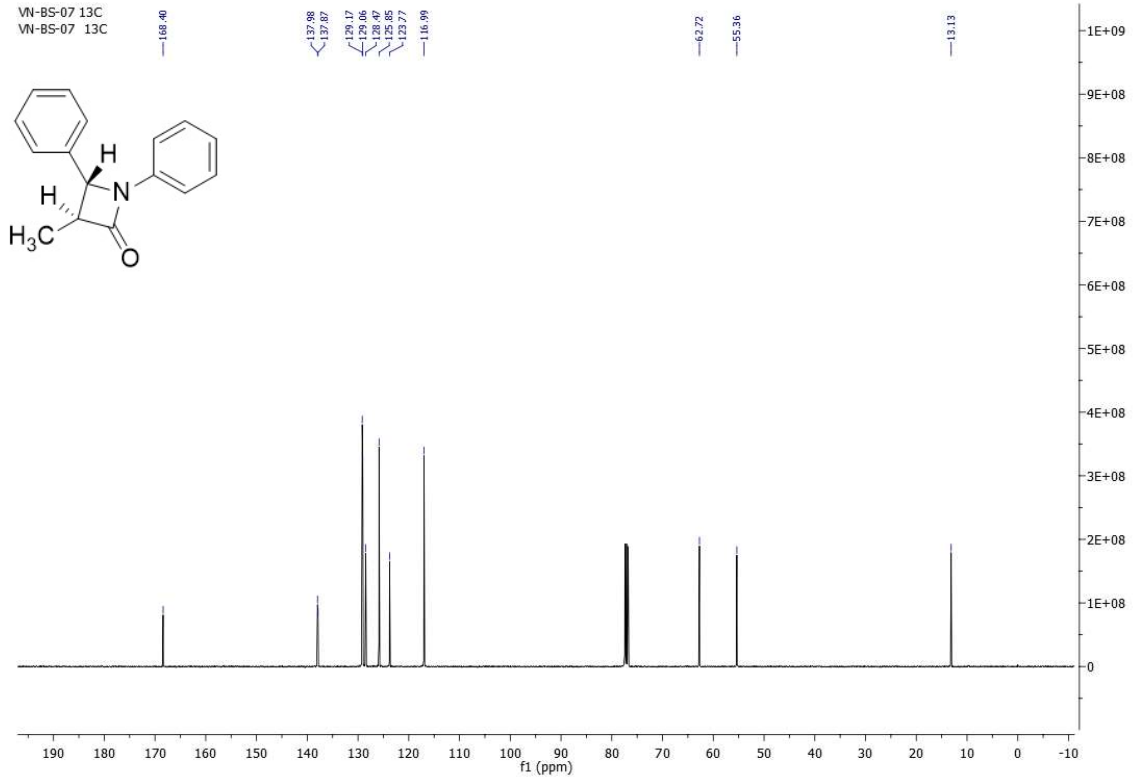
¹H NMR



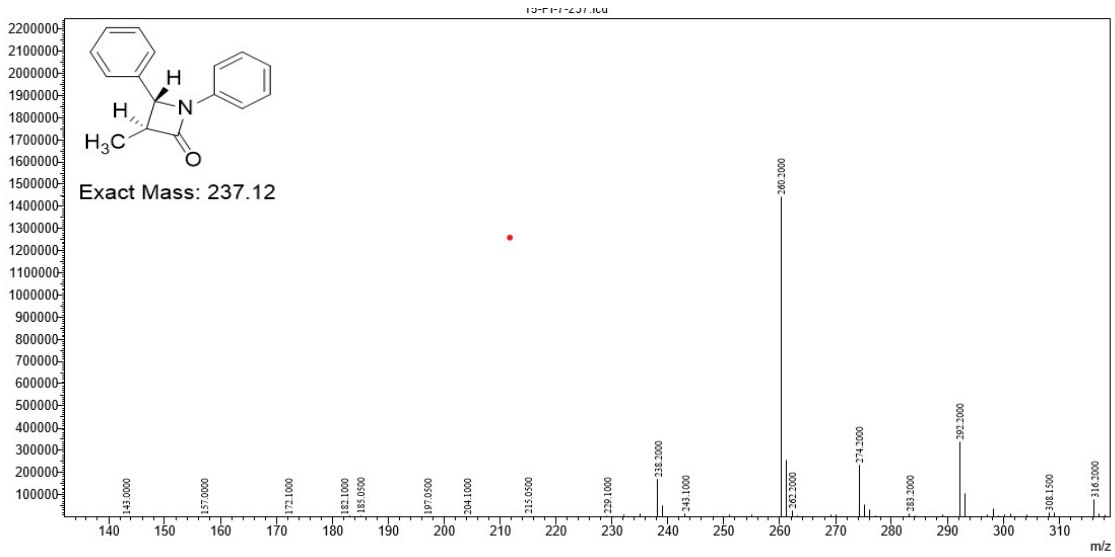
VN-BS-07 1H
VN-BS-07 1H



¹³C NMR

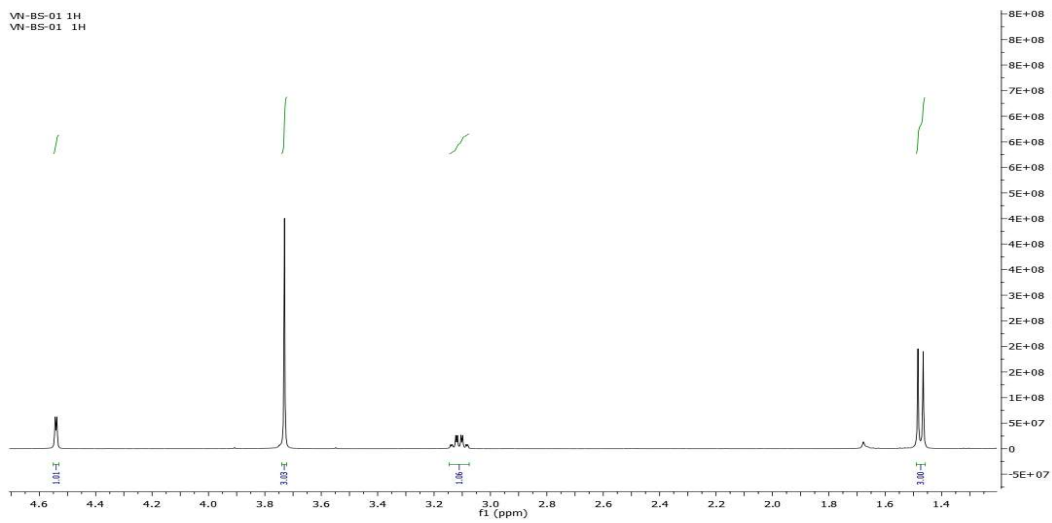
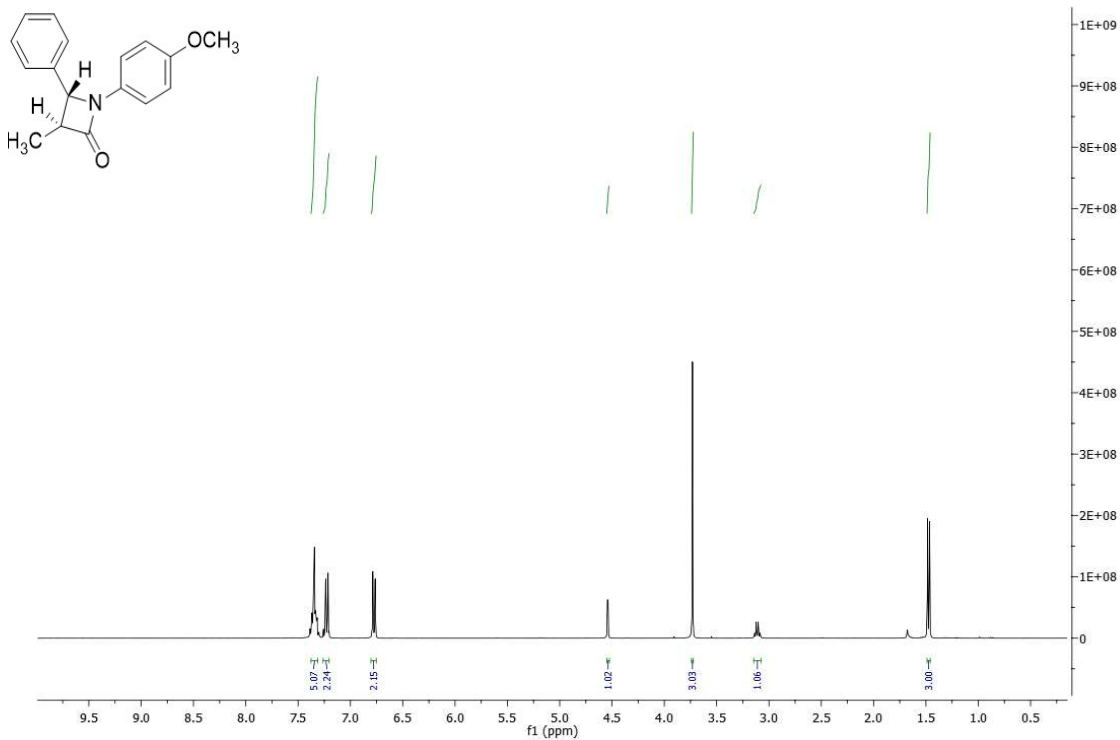


ESI-MS

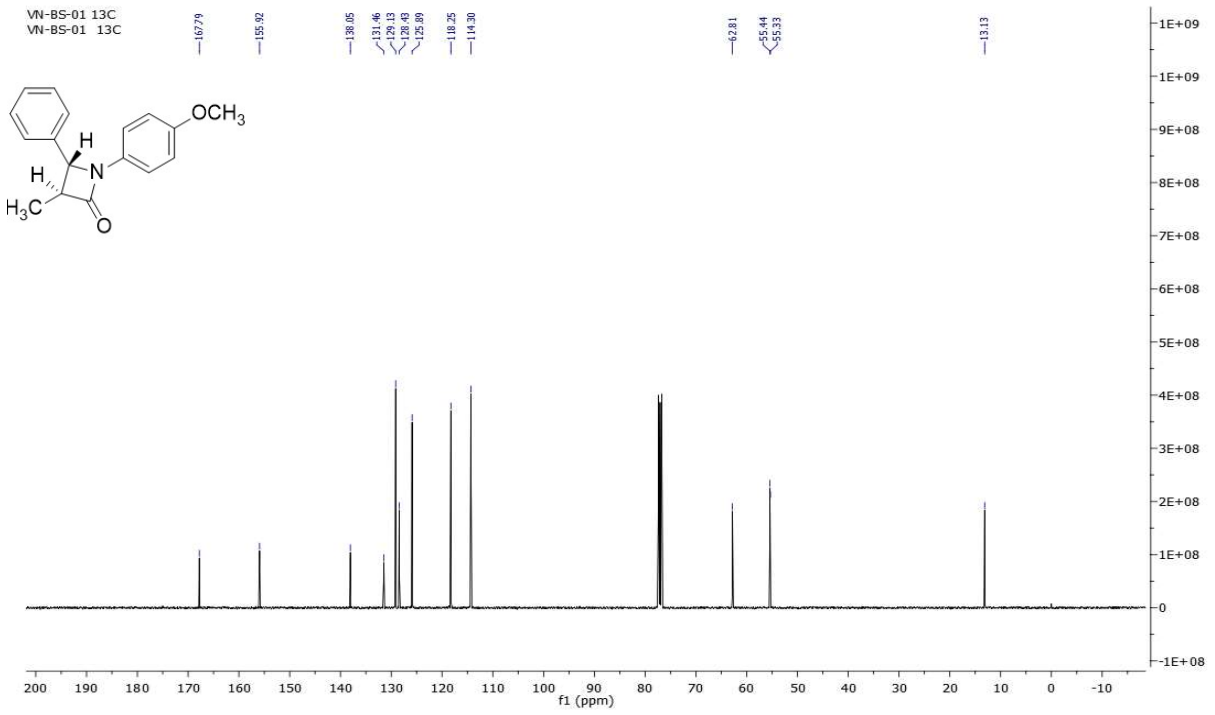


***Trans*-1-(4-methoxyphenyl)-3-methyl-4-phenylazetidin-2-one (2b):**

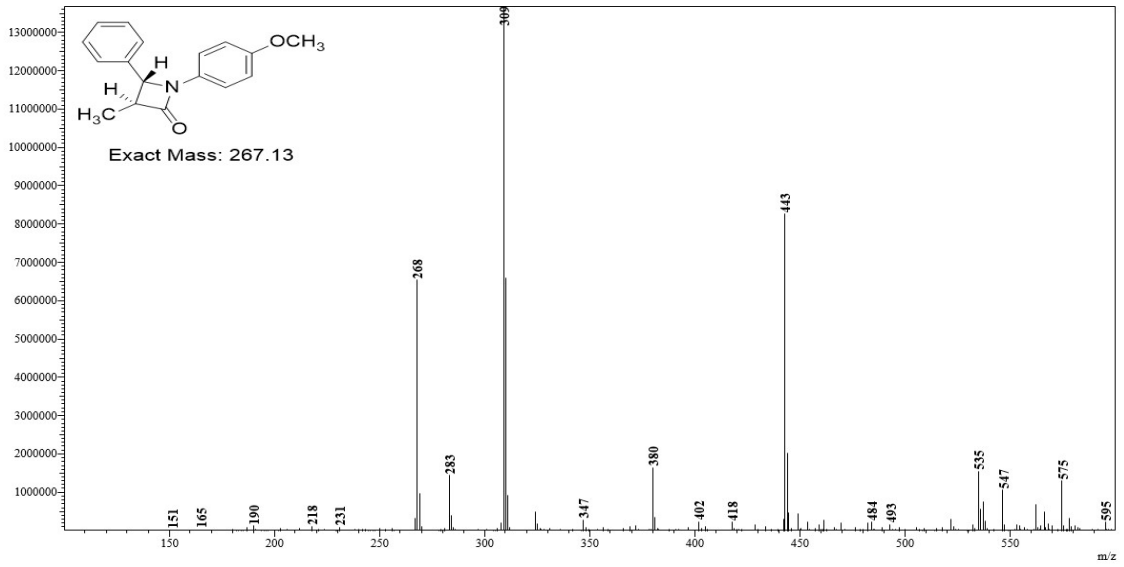
¹H NMR



¹³C NMR

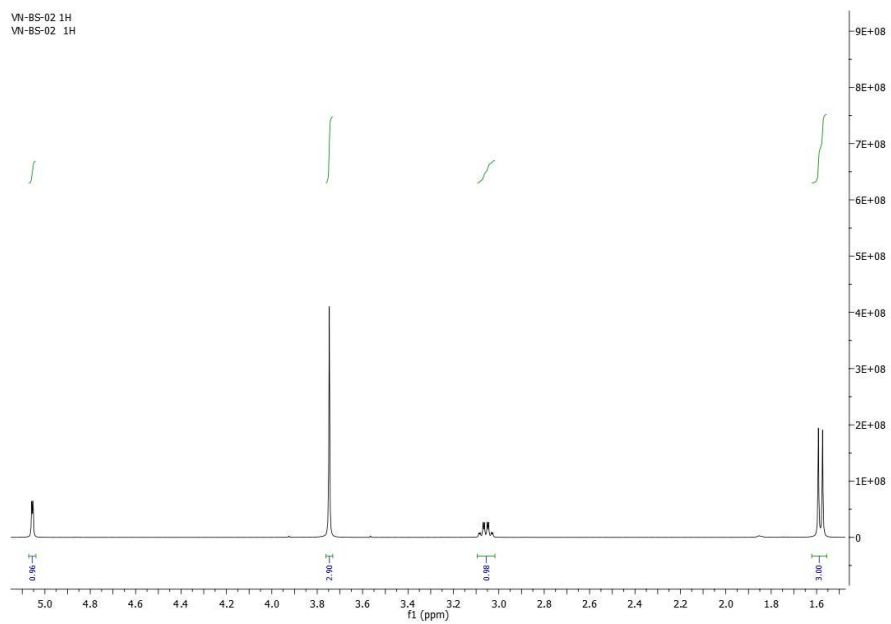
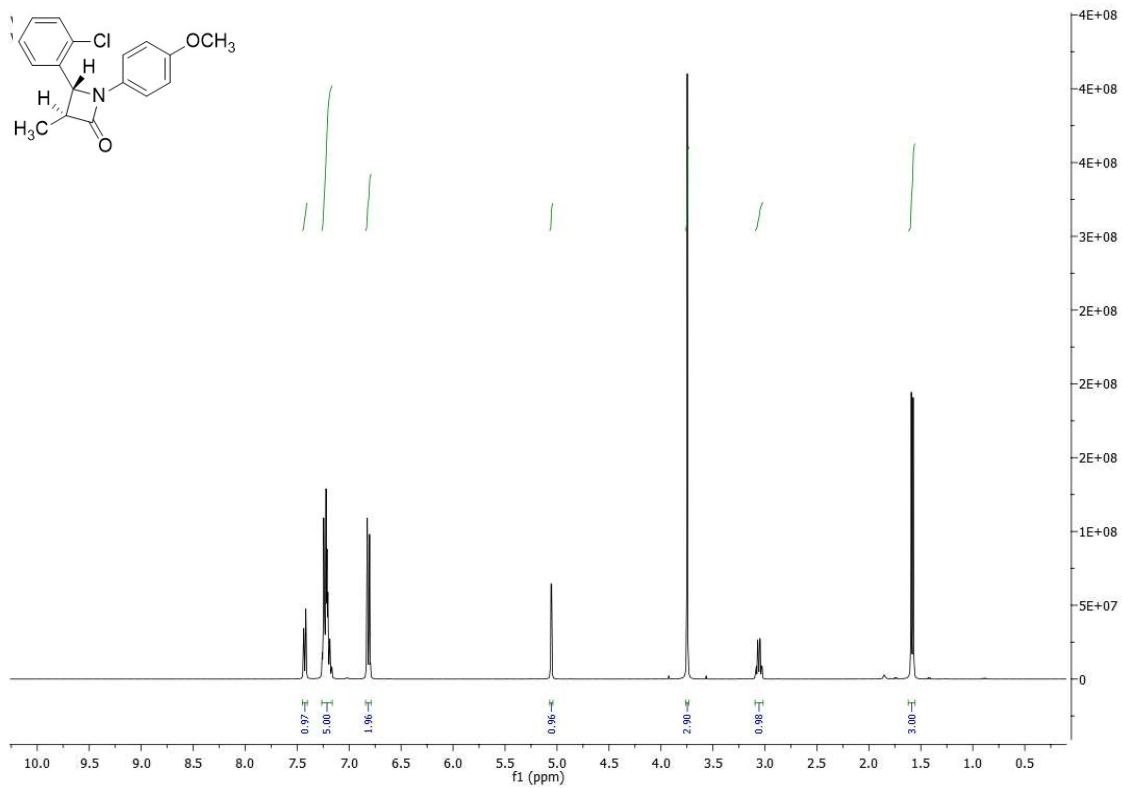


ESI-MS

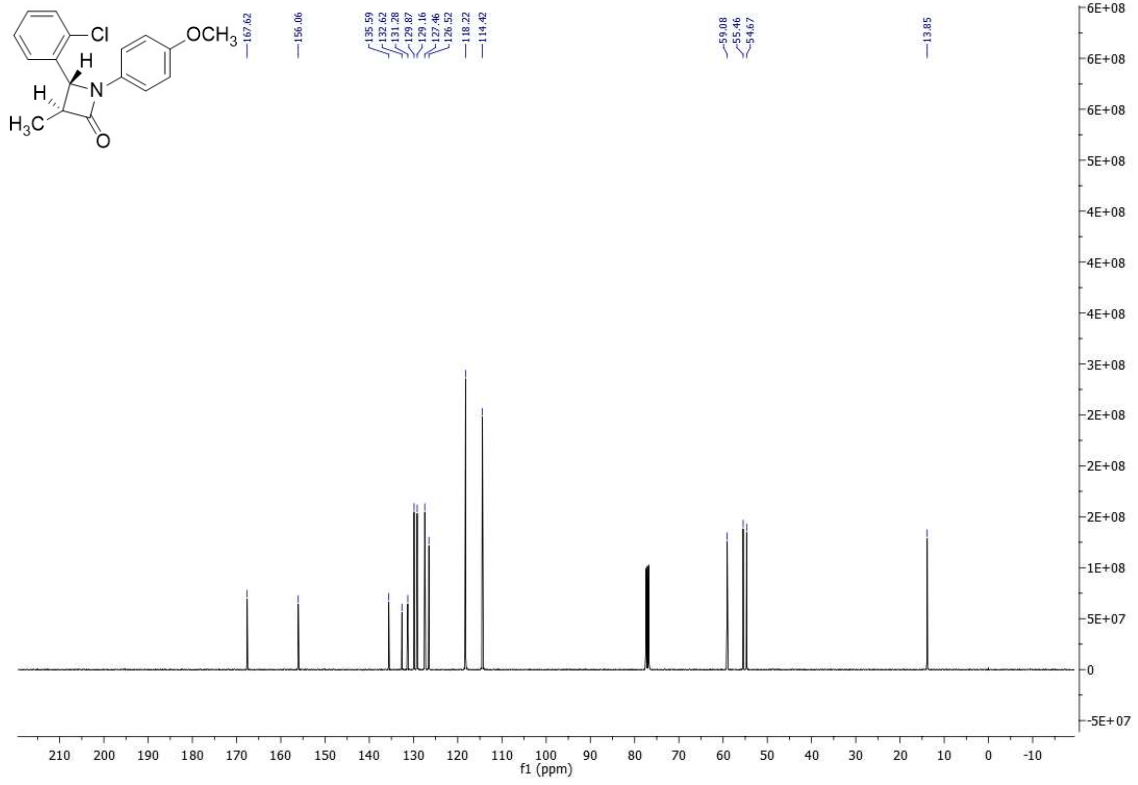


Trans-4-(2-chlorophenyl)-1-(4-methoxyphenyl)-3-methylazetidin-2-one (**2c**):

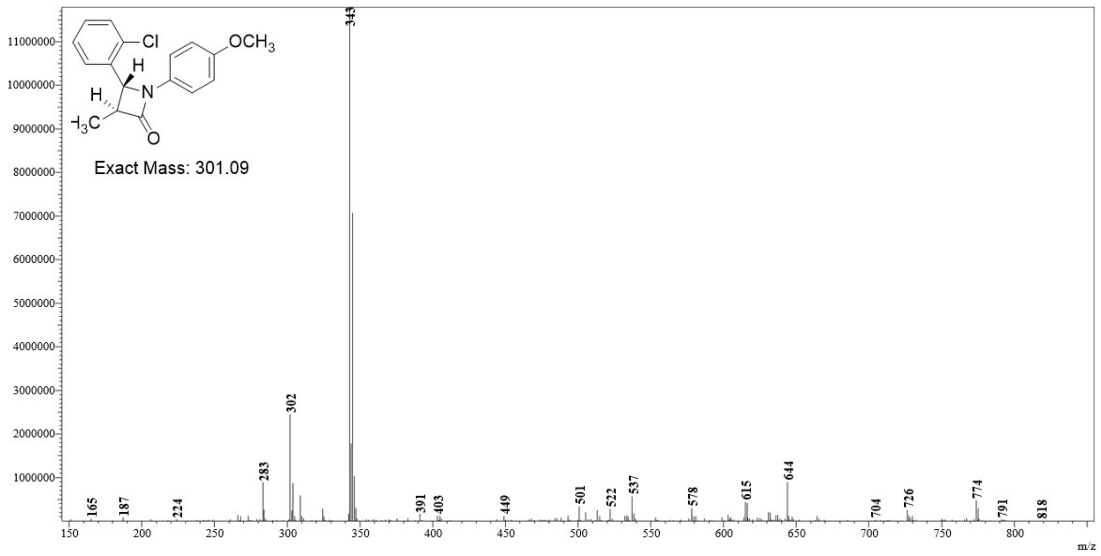
¹H NMR



¹³C NMR

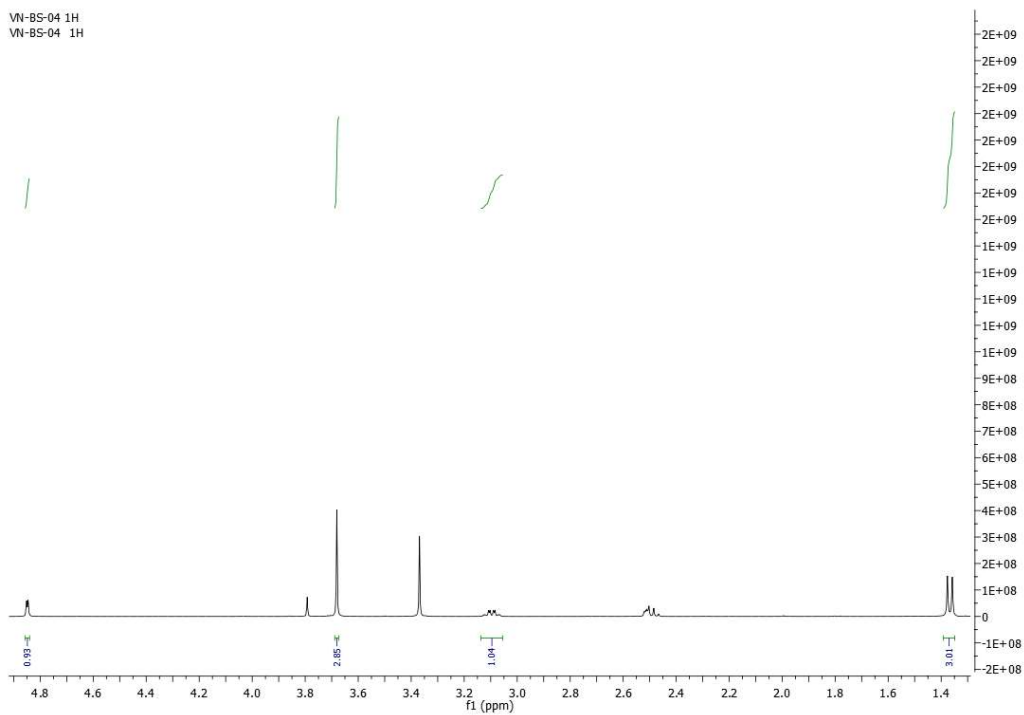
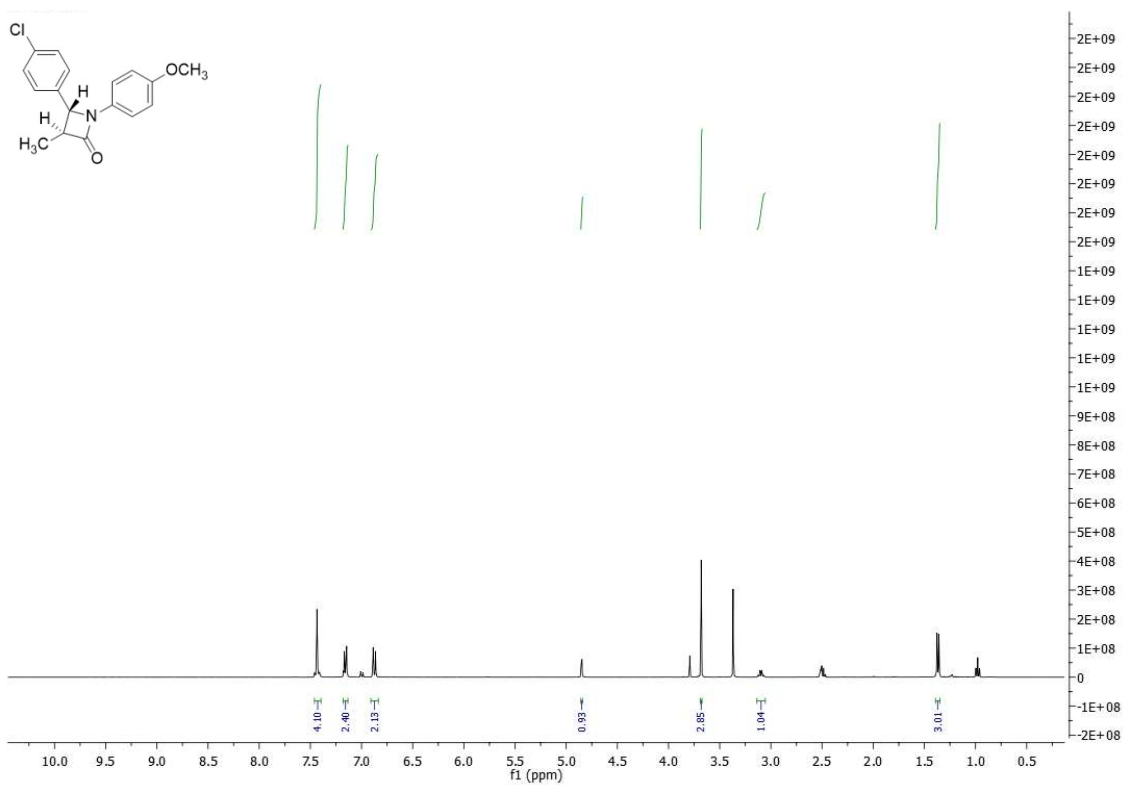


ESI-MS

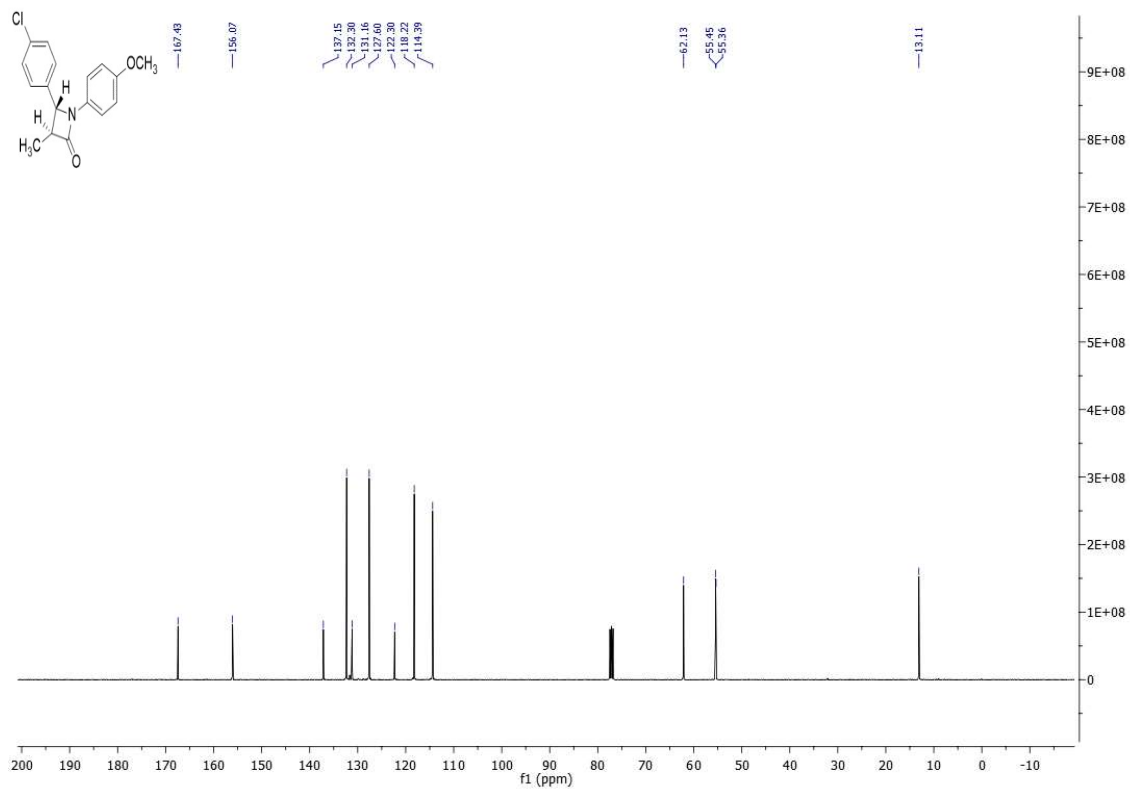


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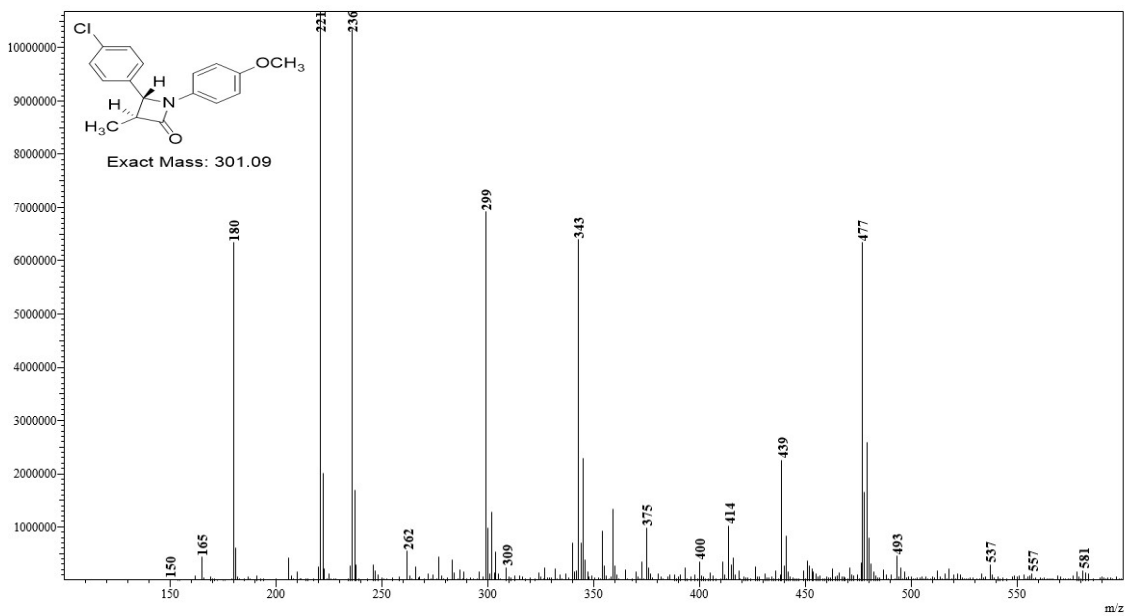
¹H NMR



^{13}C NMR

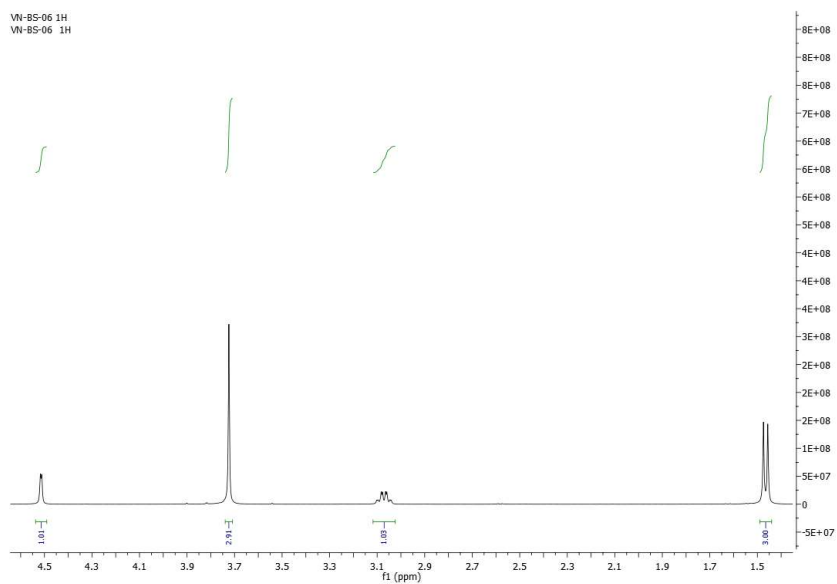
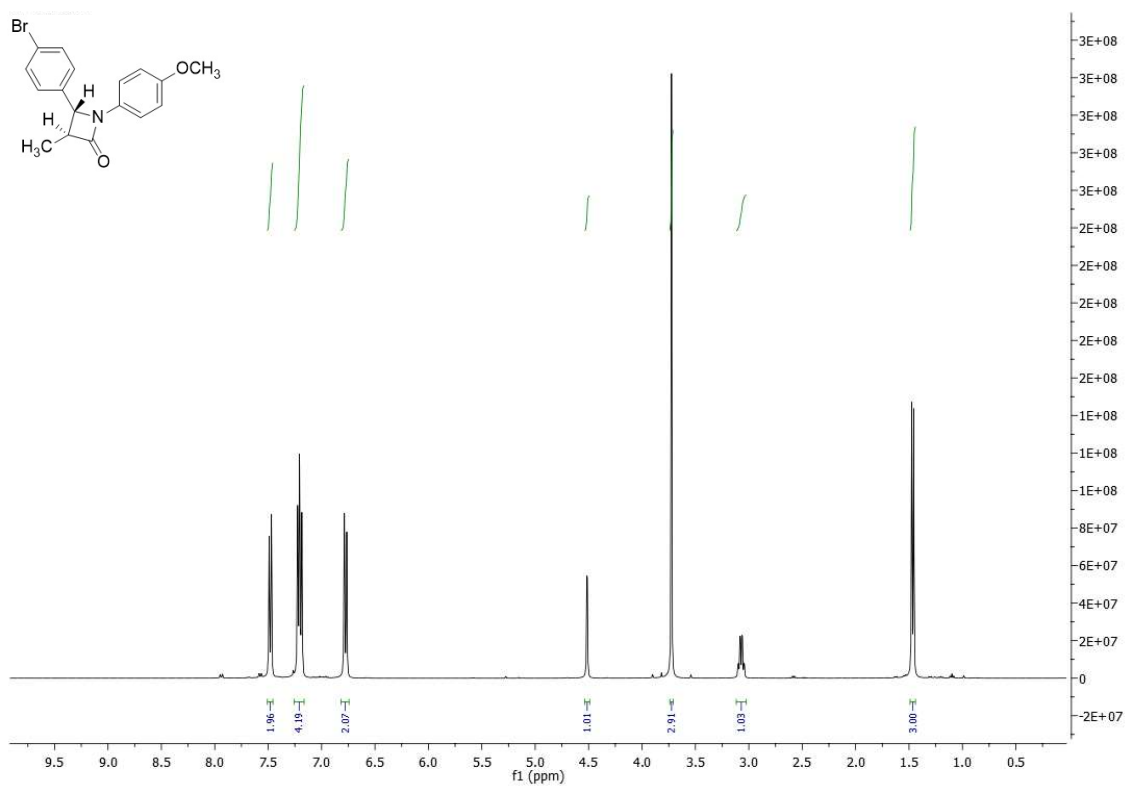


ESI-MS

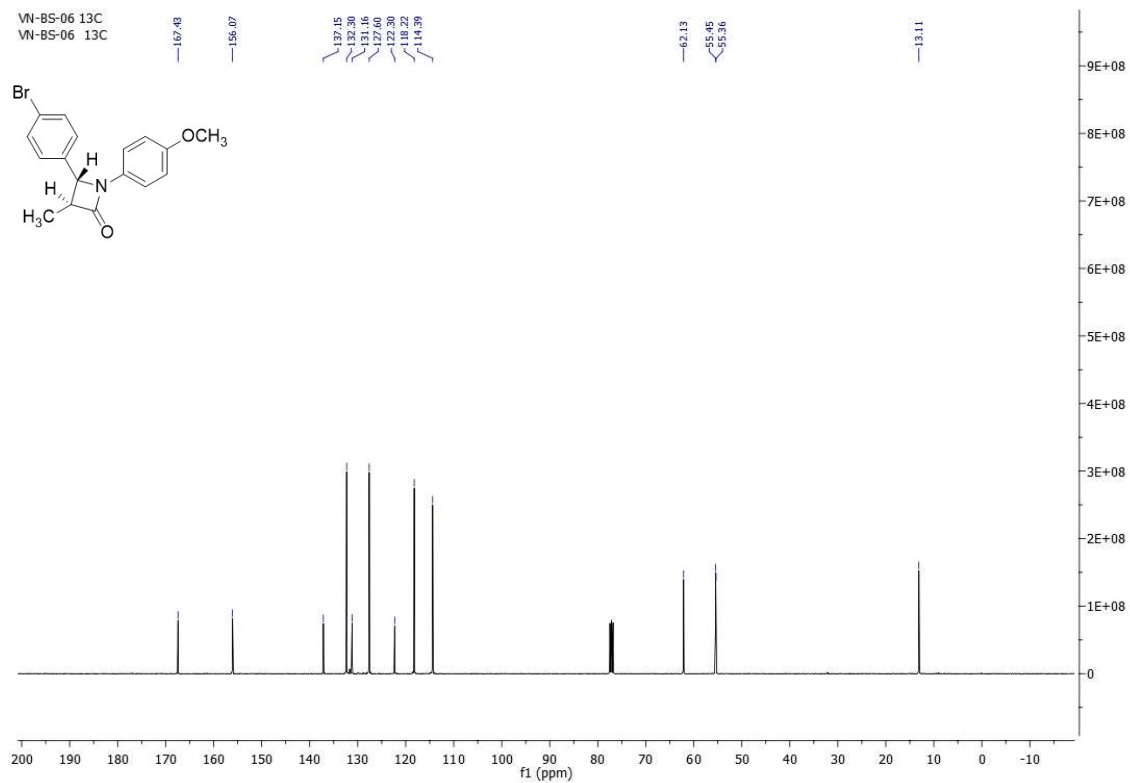


Trans-4-(4-bromophenyl)-1-(4-methoxyphenyl)-3-methylazetidin-2-one (**2e**):

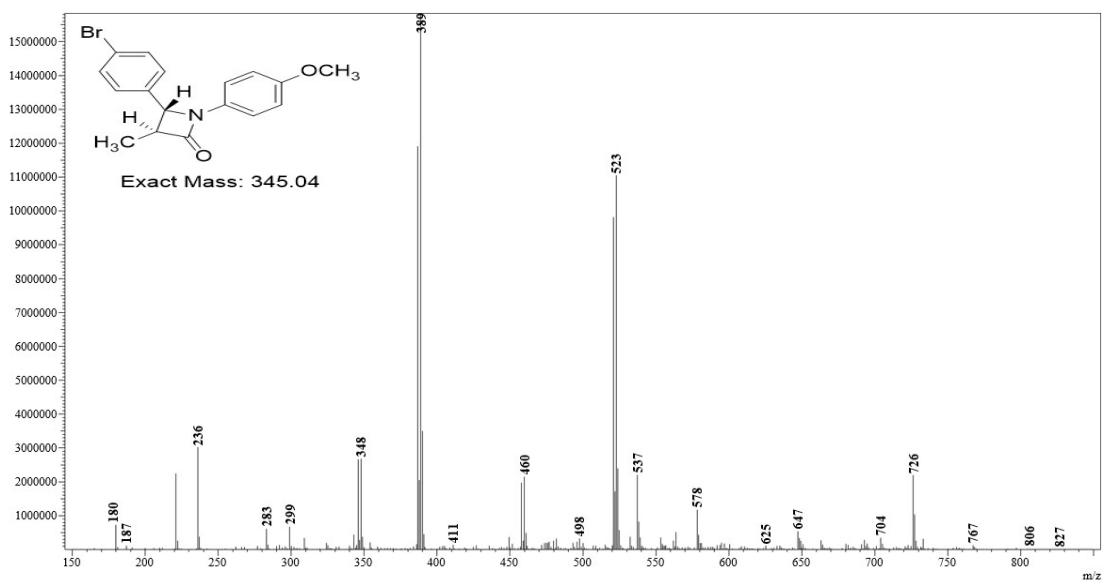
¹H NMR



^{13}C NMR

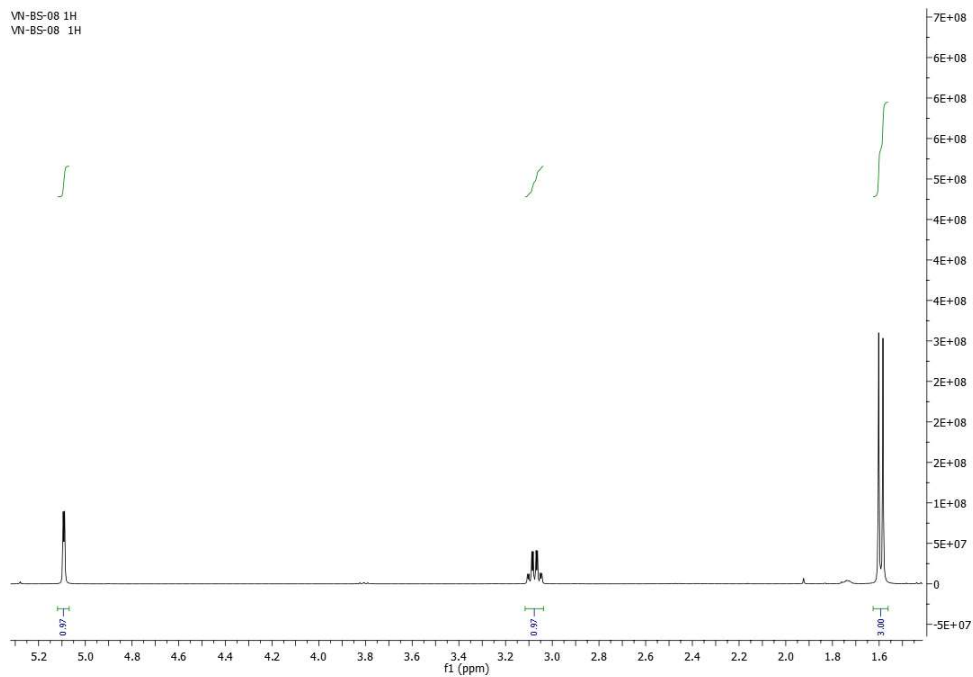
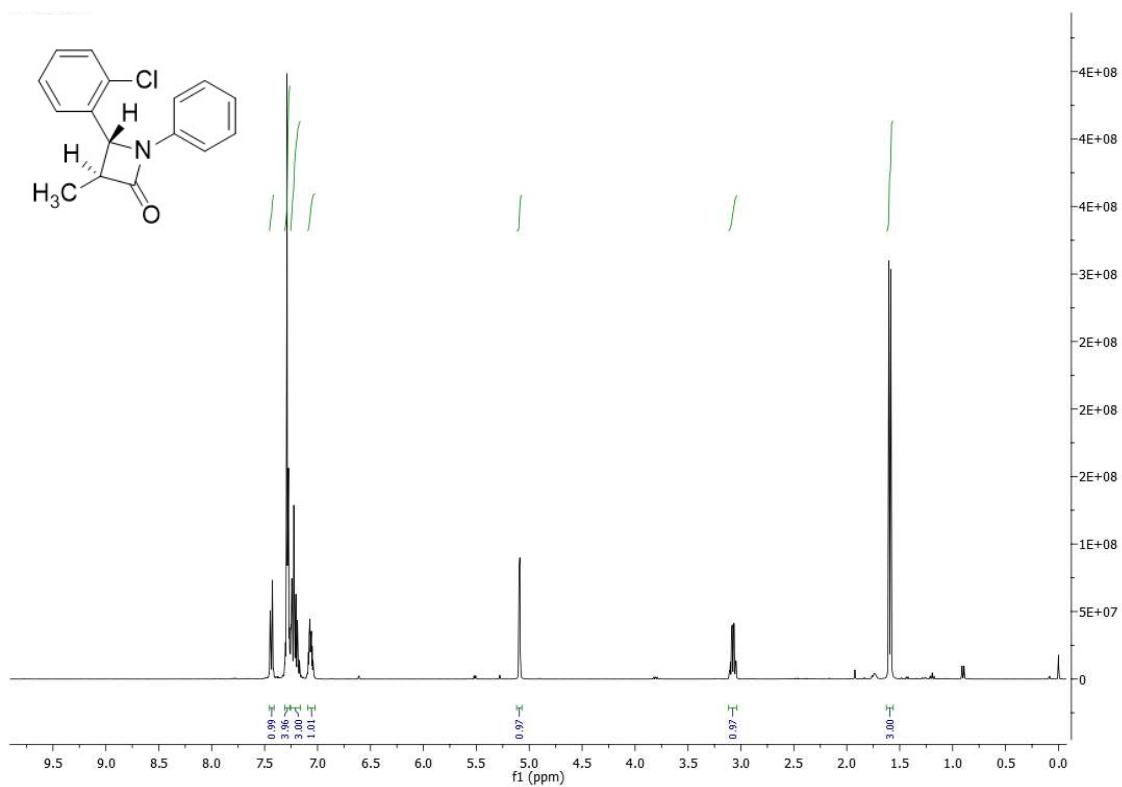


ESI-MS

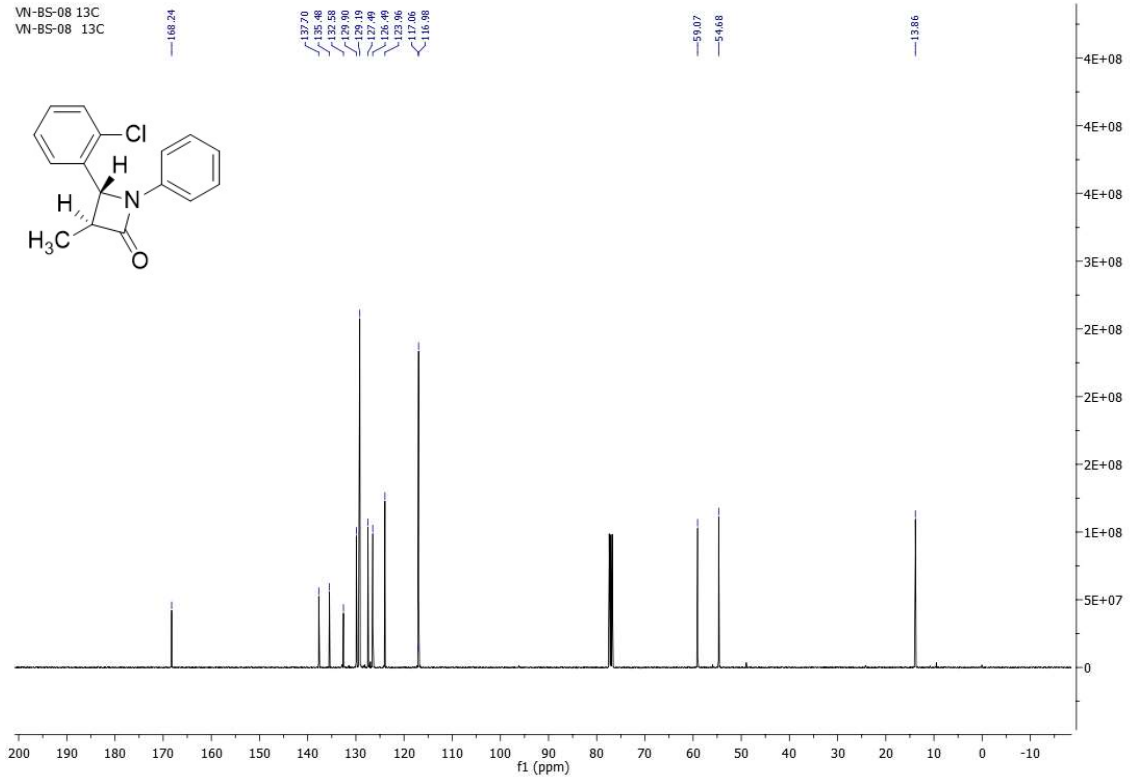


Trans-4-(2-chlorophenyl)-3-methyl-1-phenylazetidin-2-one (2f):

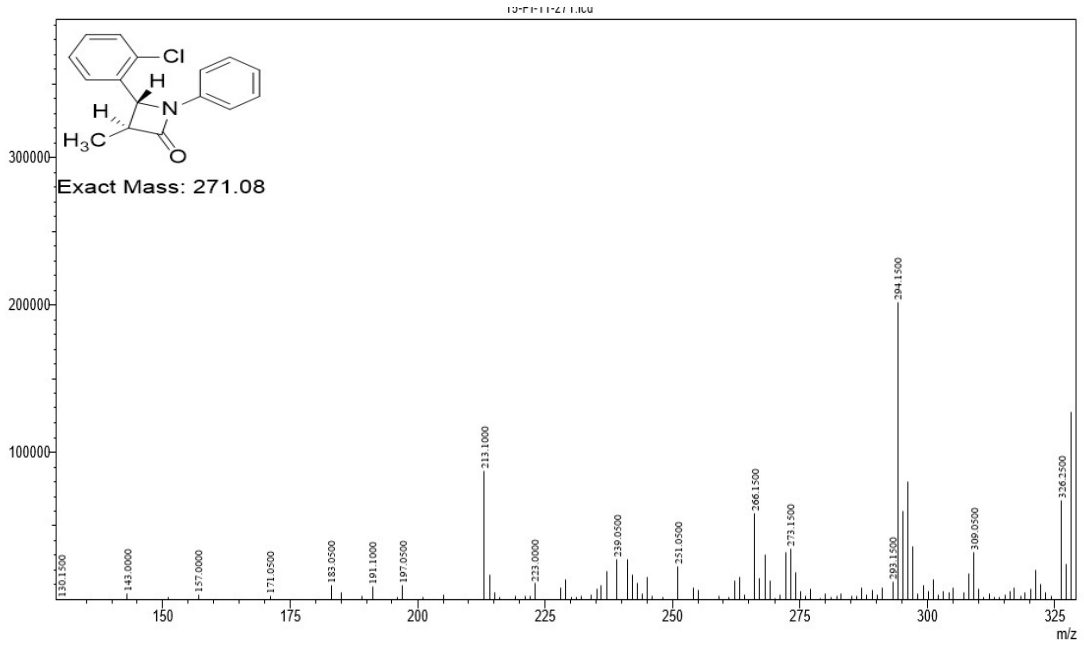
¹H NMR



¹³C NMR

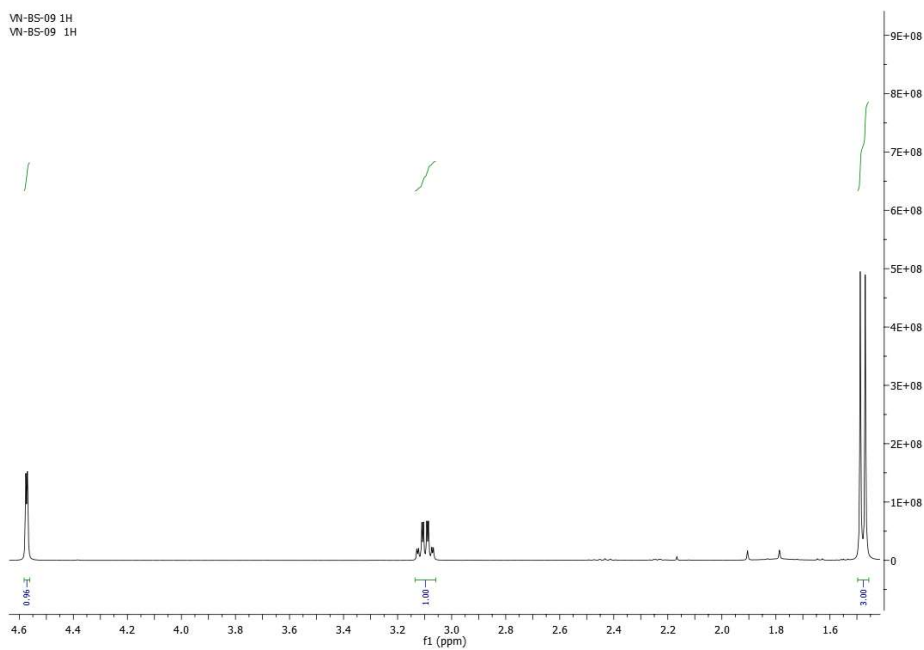
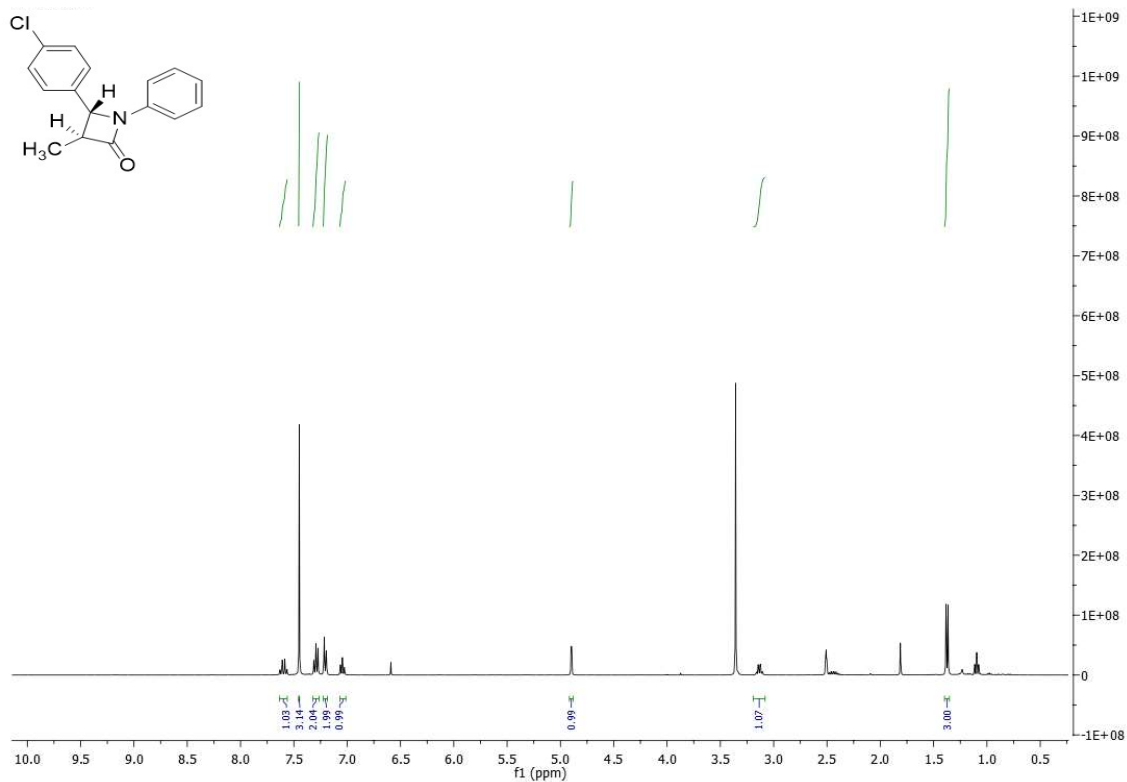


ESI-MS



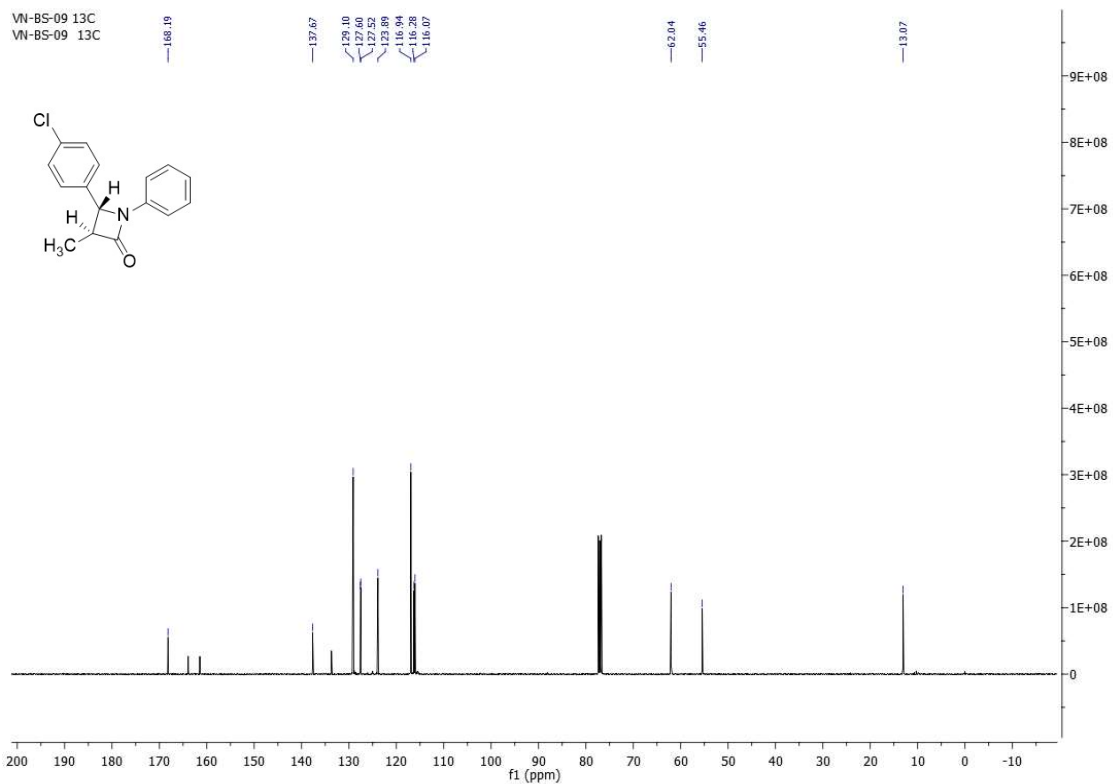
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¹H NMR

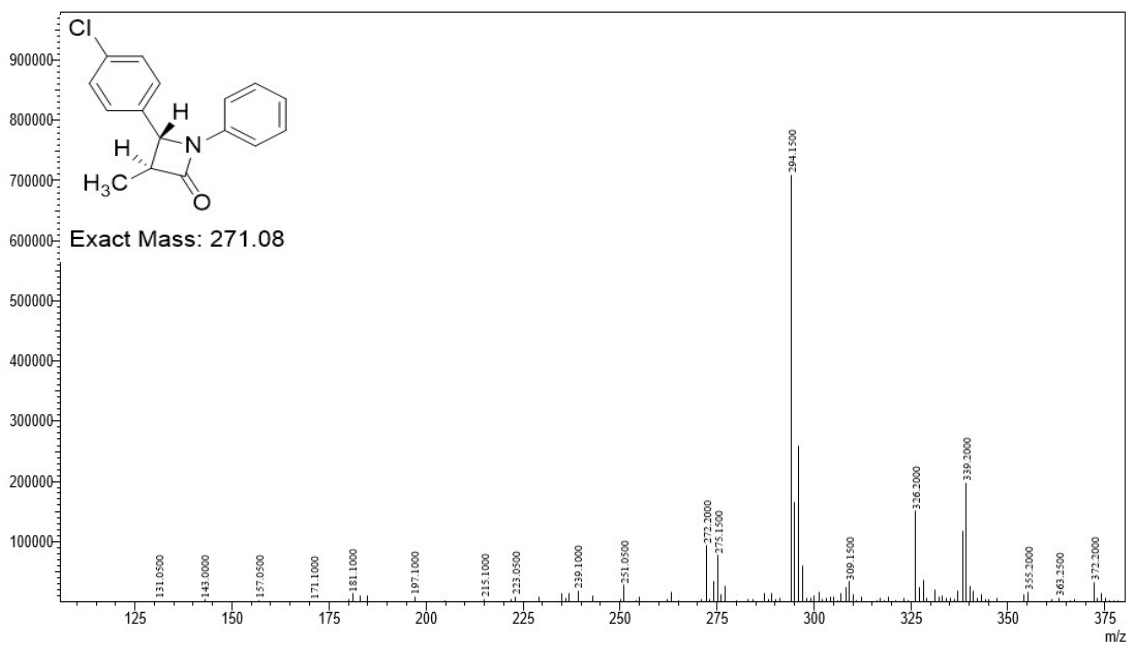


¹³C NMR

WN-BS-09 13C
WN-BS-09 13C

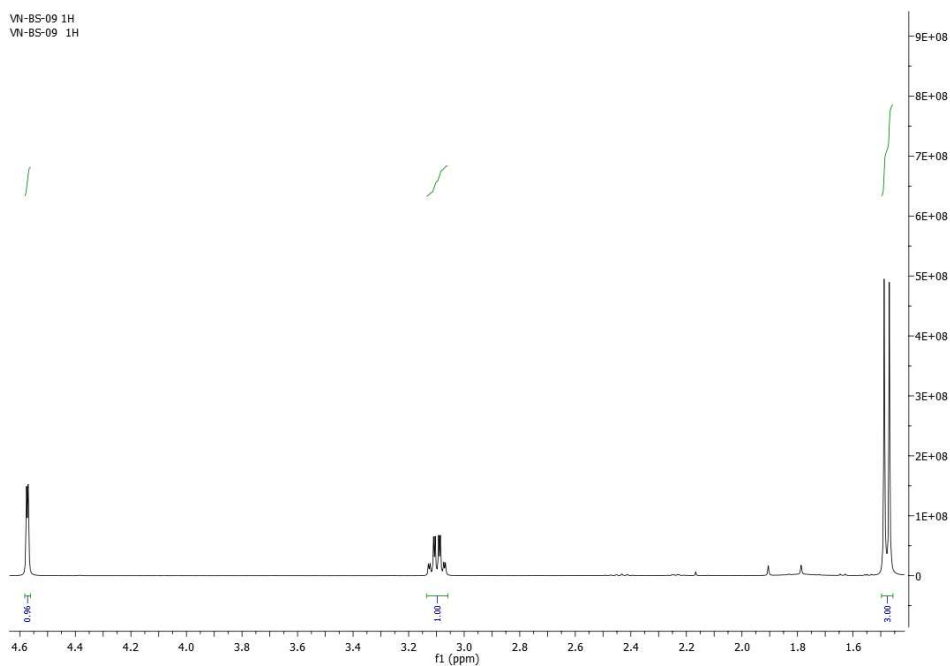
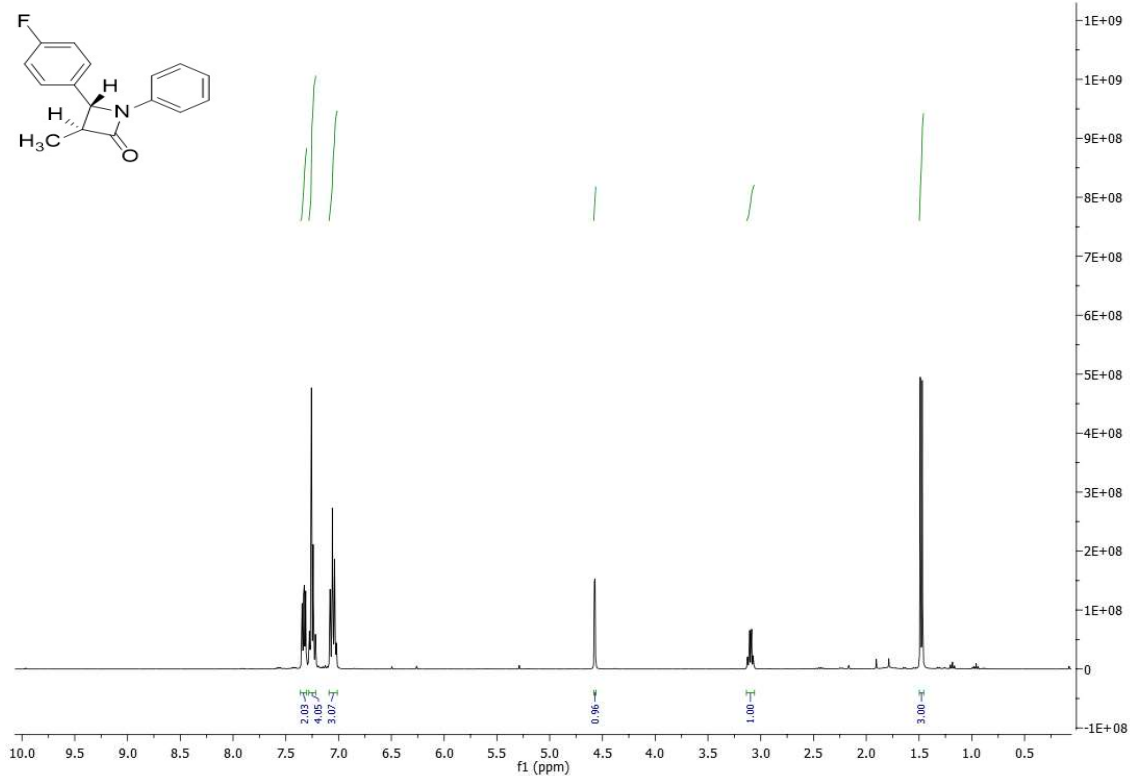


ESI-MS

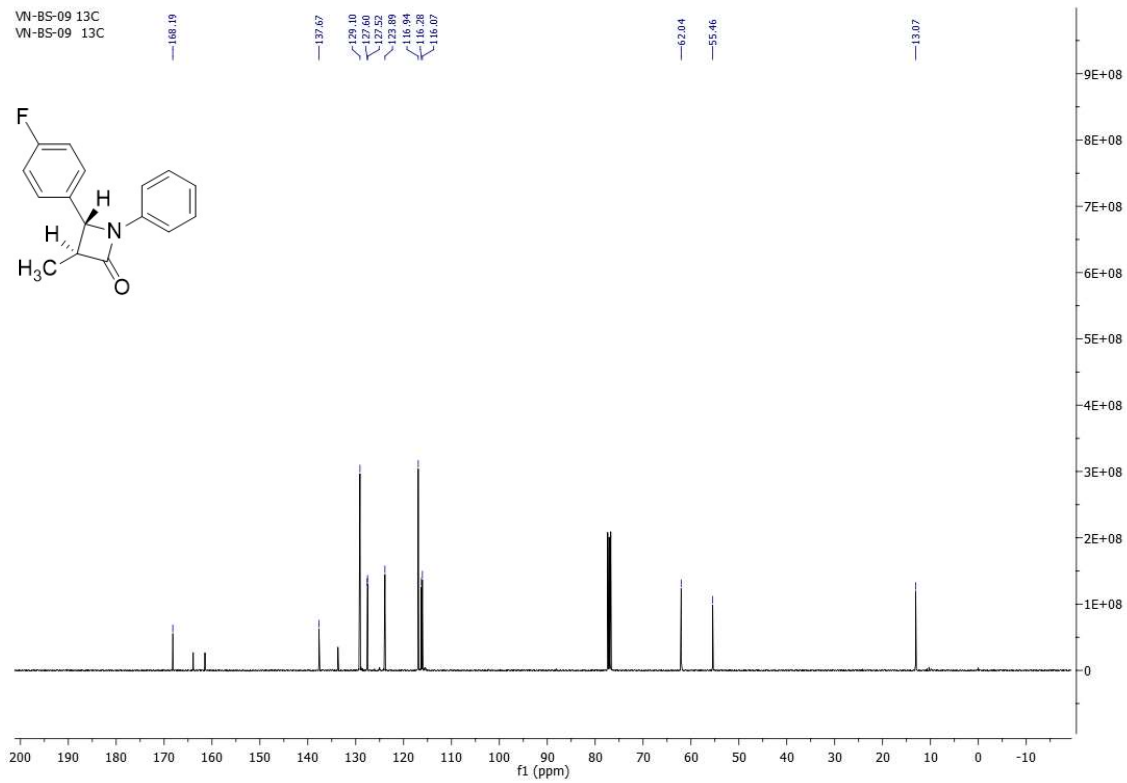


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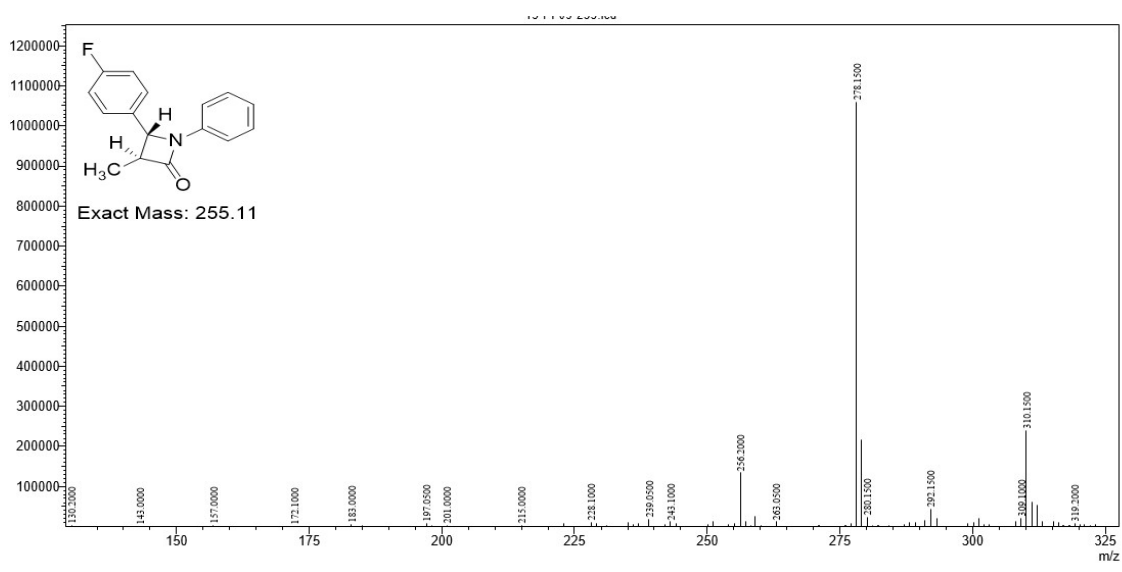
¹H NMR



¹³C NMR

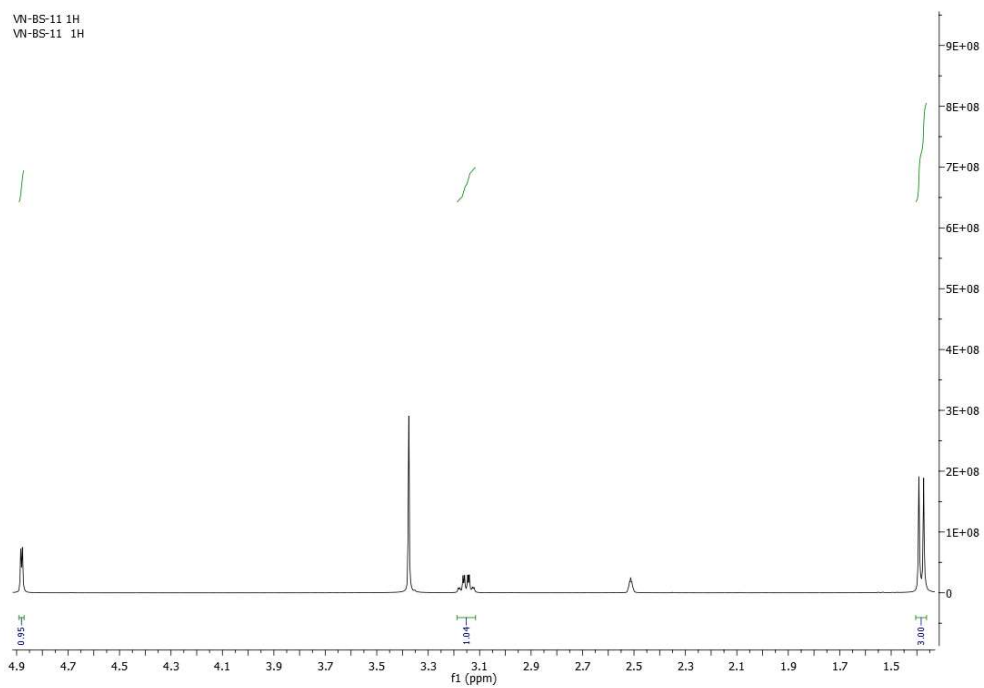
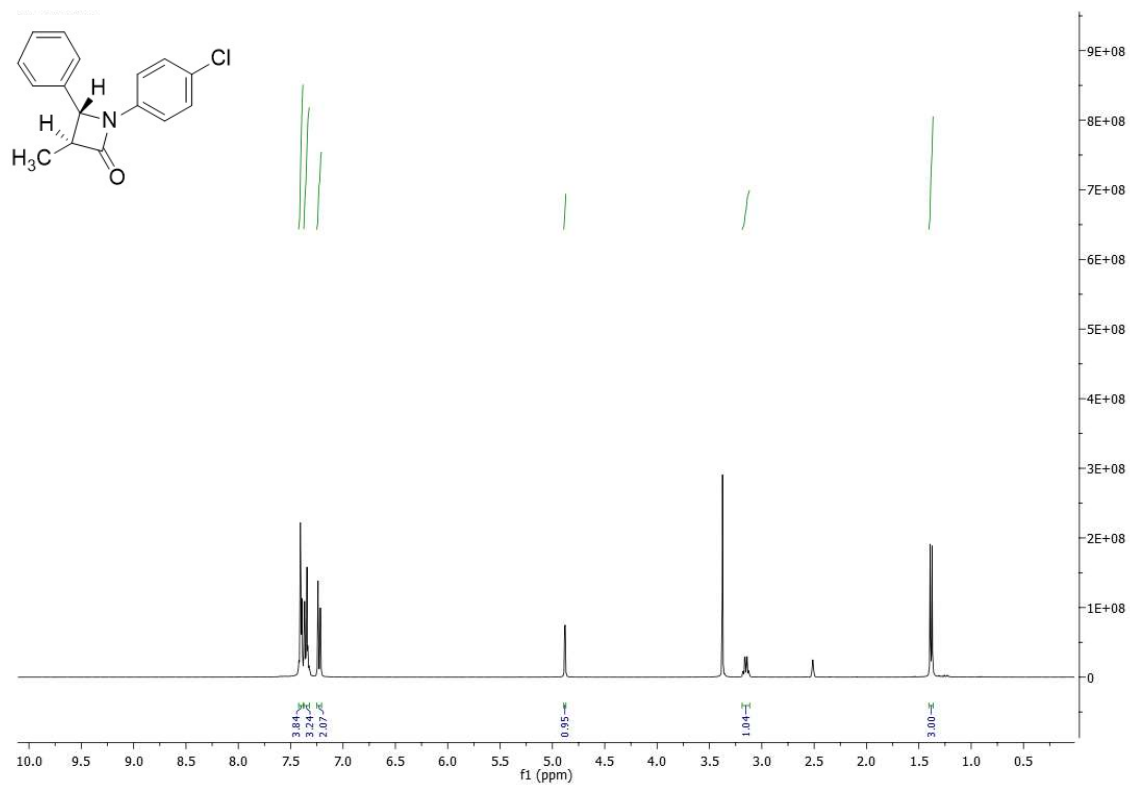


ESI-MS

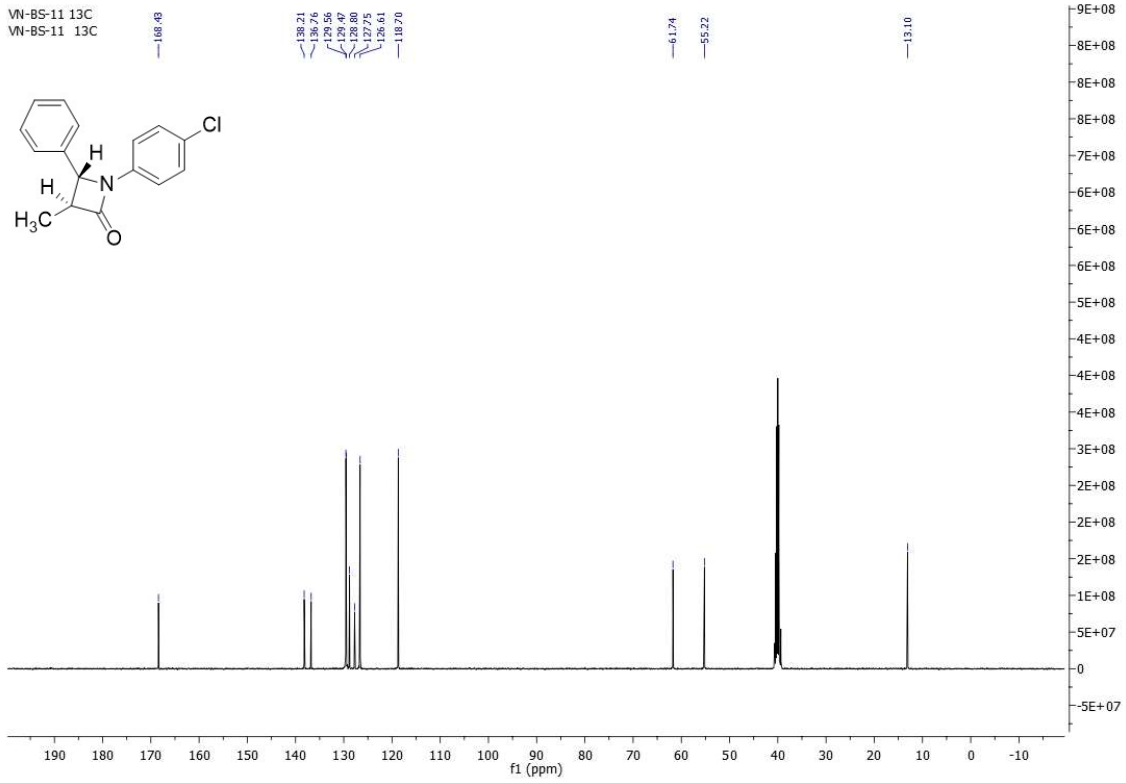


***Trans*-1-(4-chlorophenyl)-3-methyl-4-phenylazetidin-2-one (2i):**

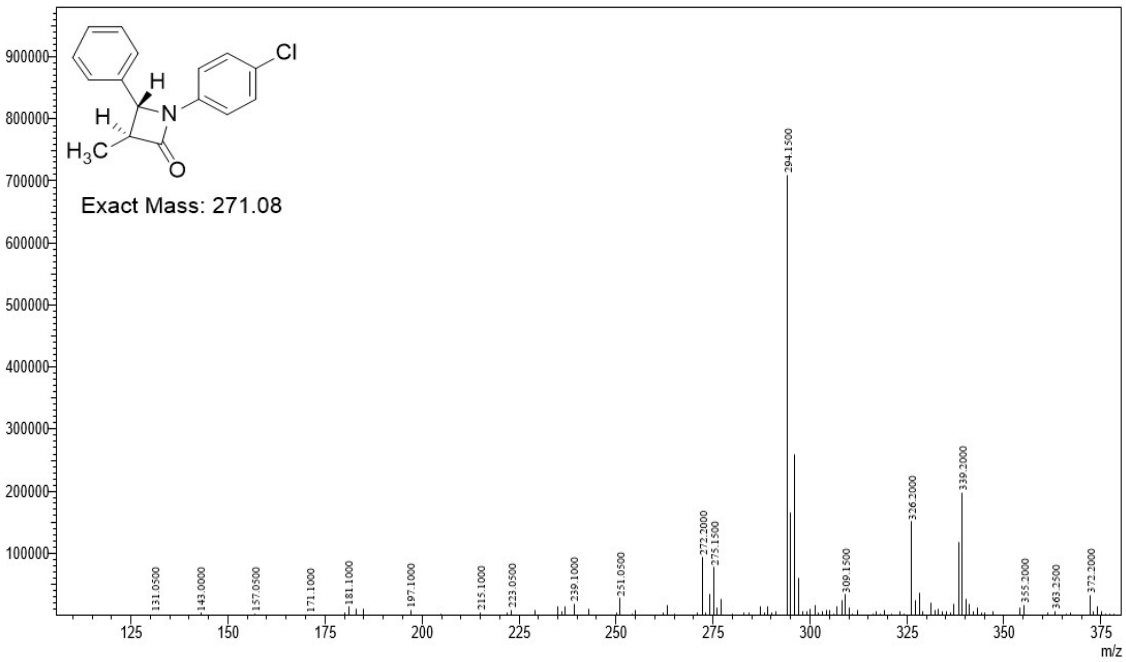
¹H NMR



¹³C NMR

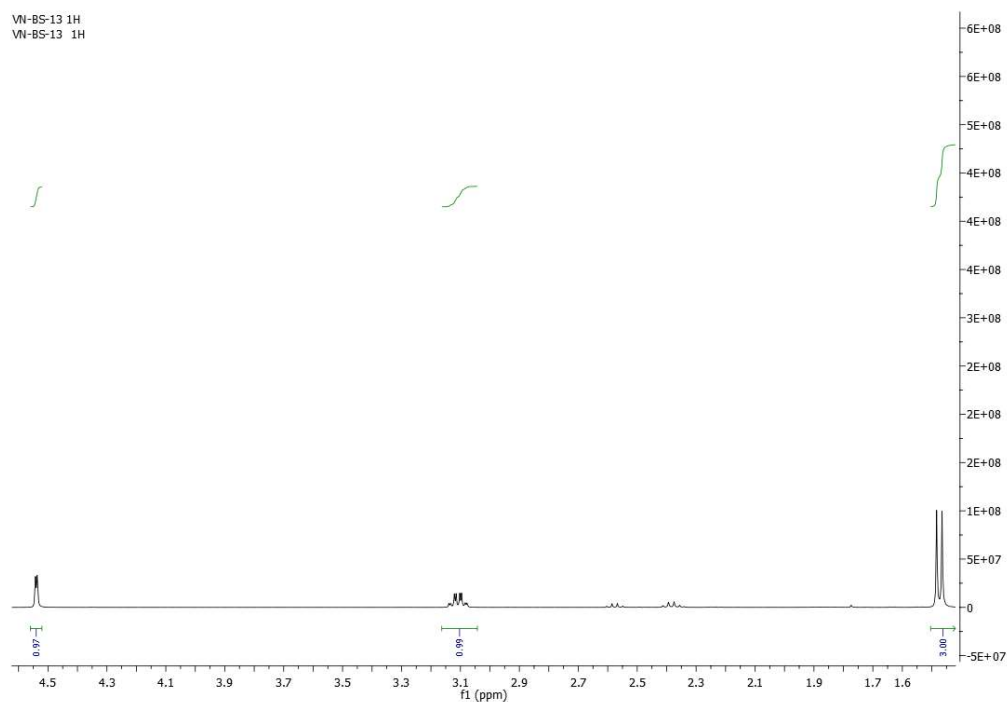
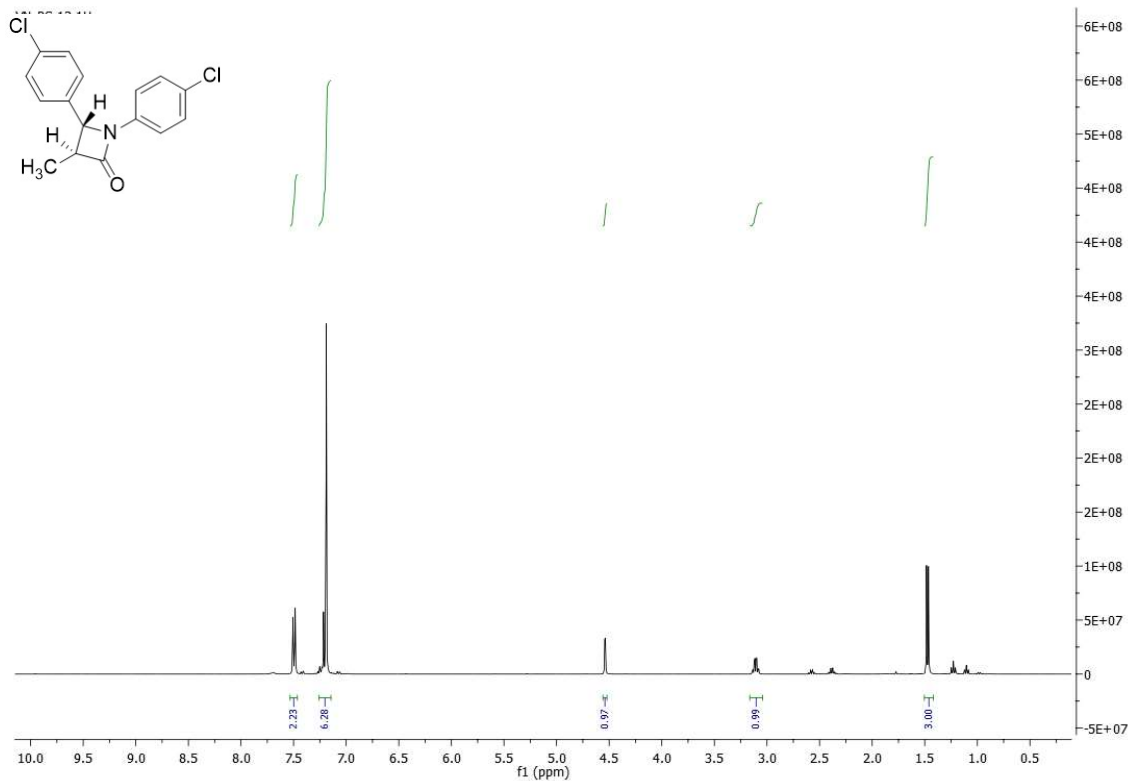


ESI-MS

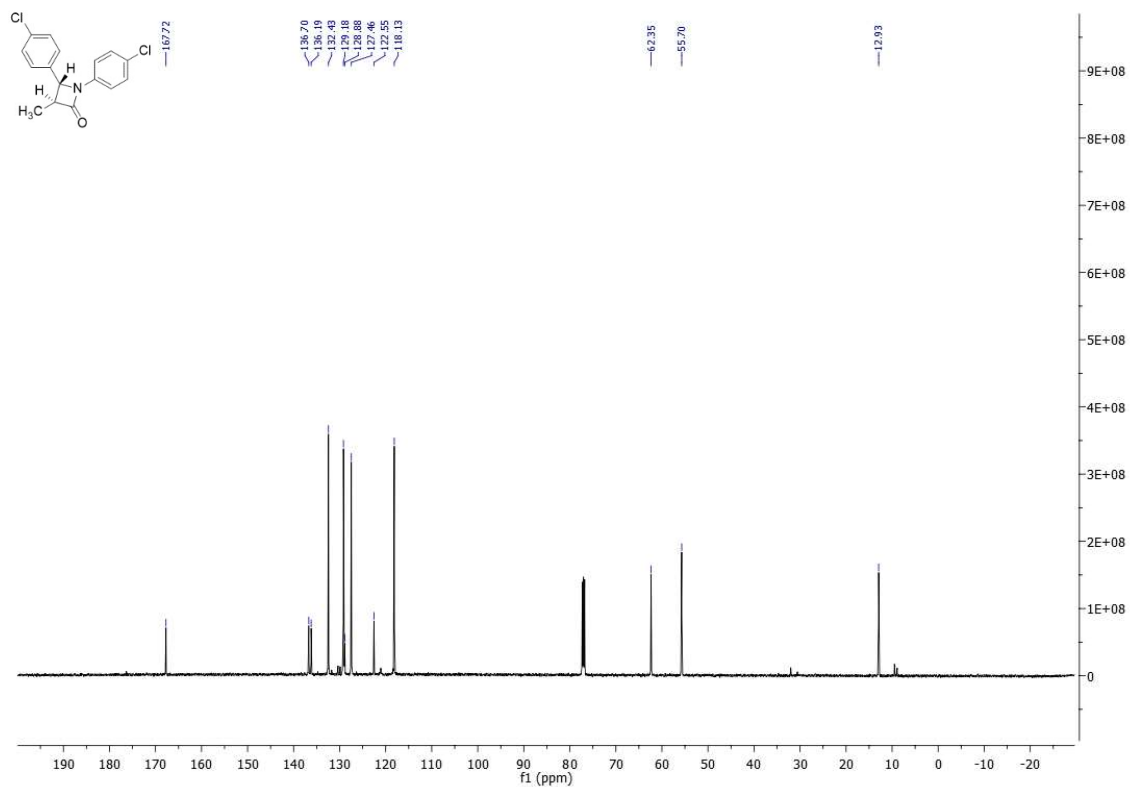


***Trans*-1,4-bis(4-chlorophenyl)-3-methylazetidin-2-one (2j):**

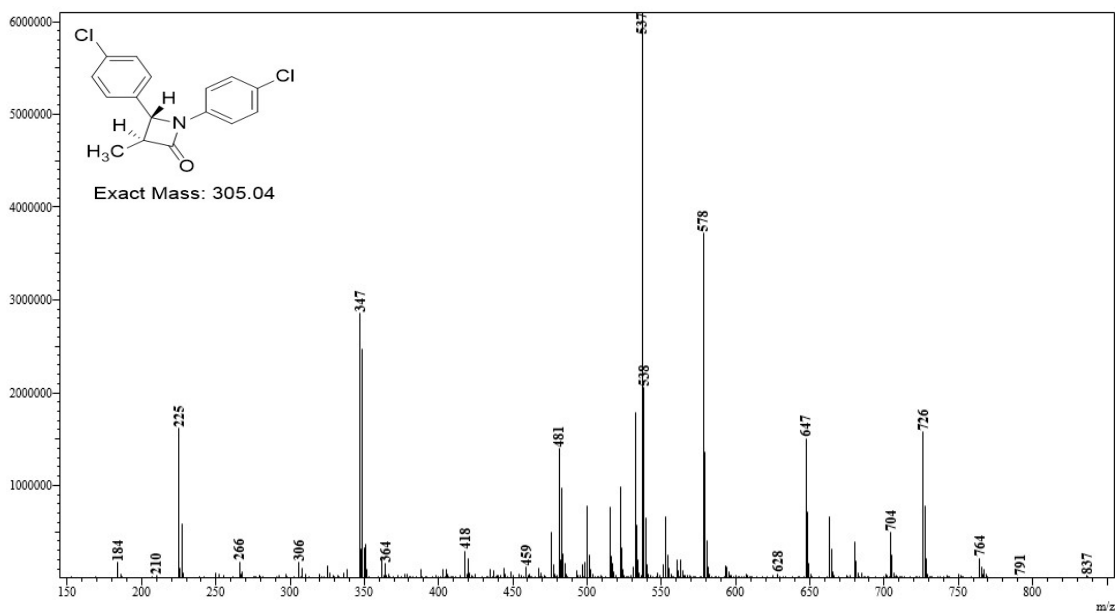
¹H NMR



¹³C NMR

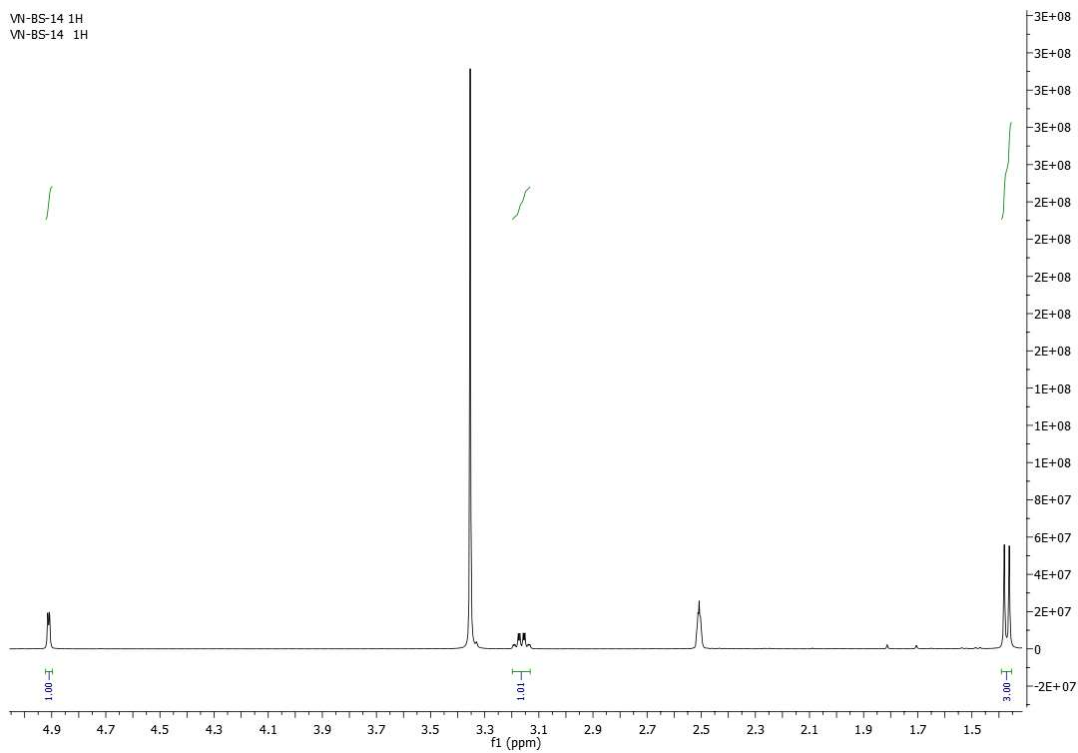
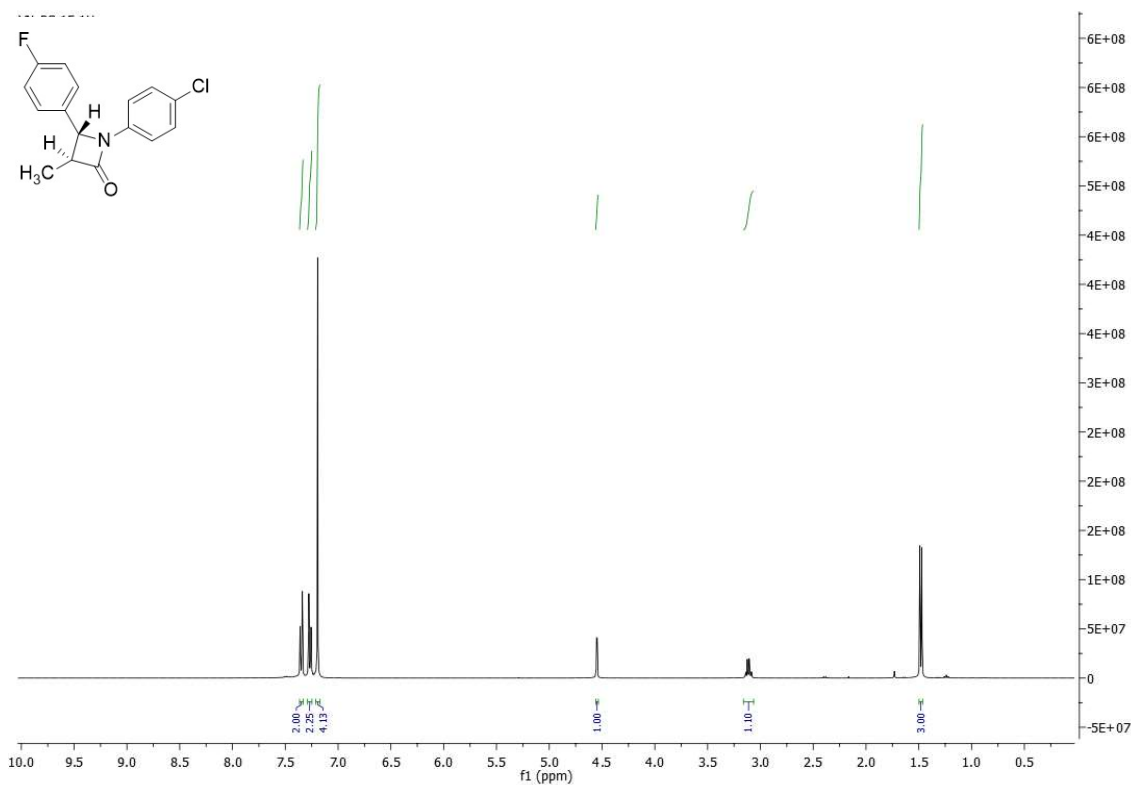


ESI-MS



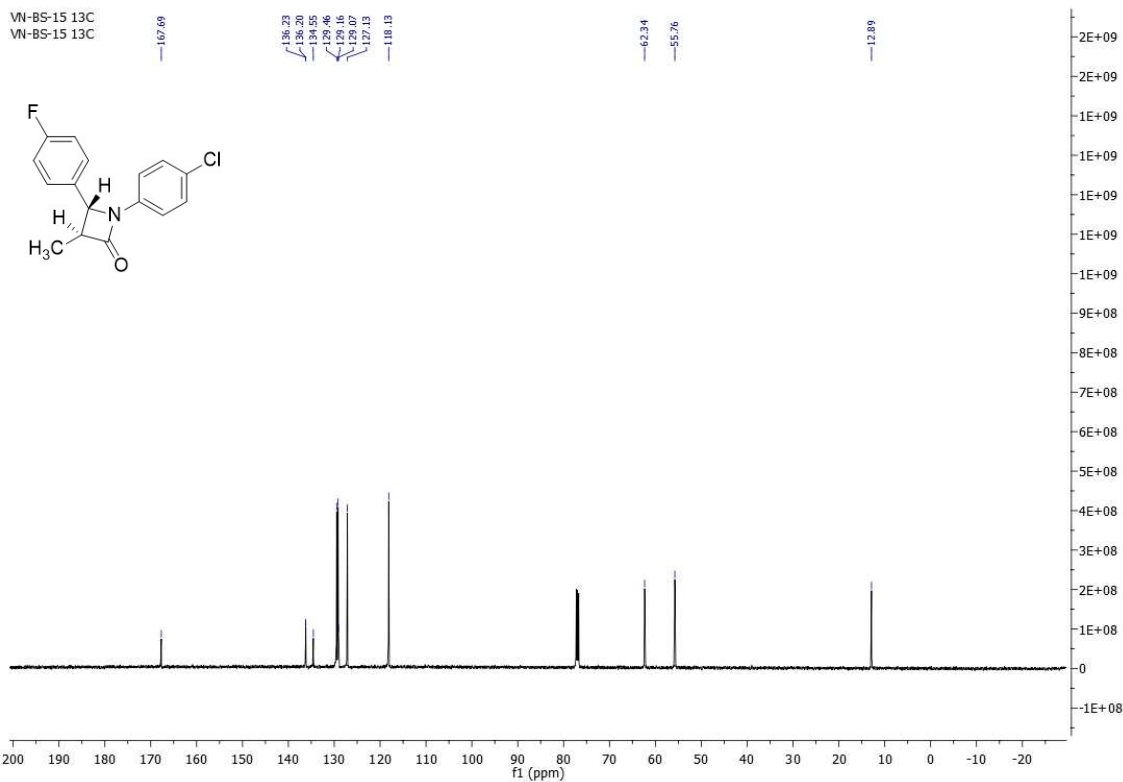
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¹H NMR

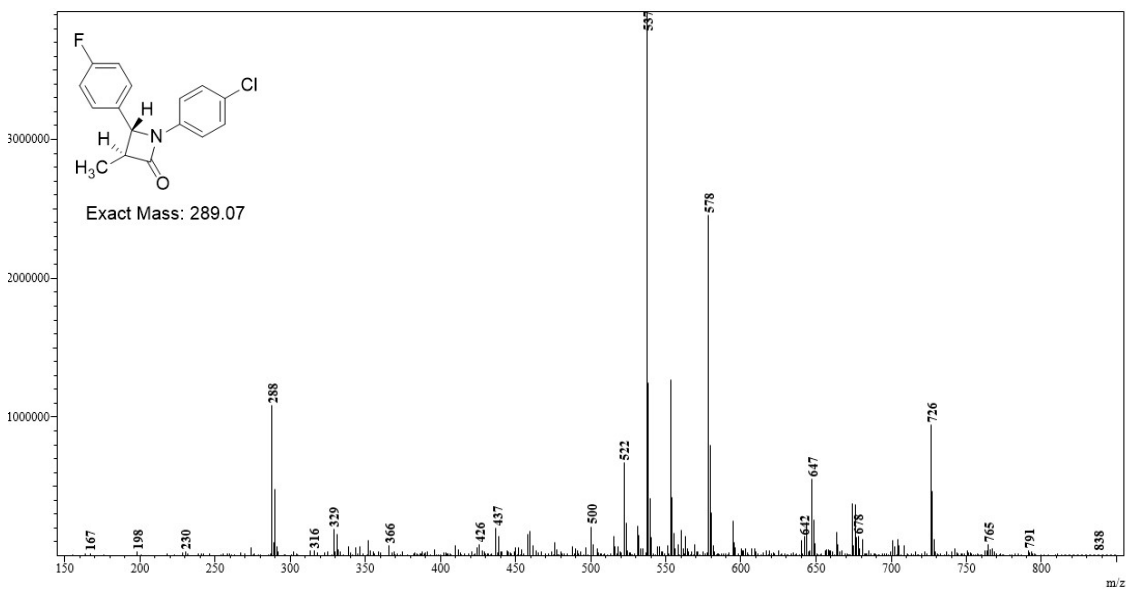


¹³C NMR

VN-BS-15 13C
VN-BS-15 13C

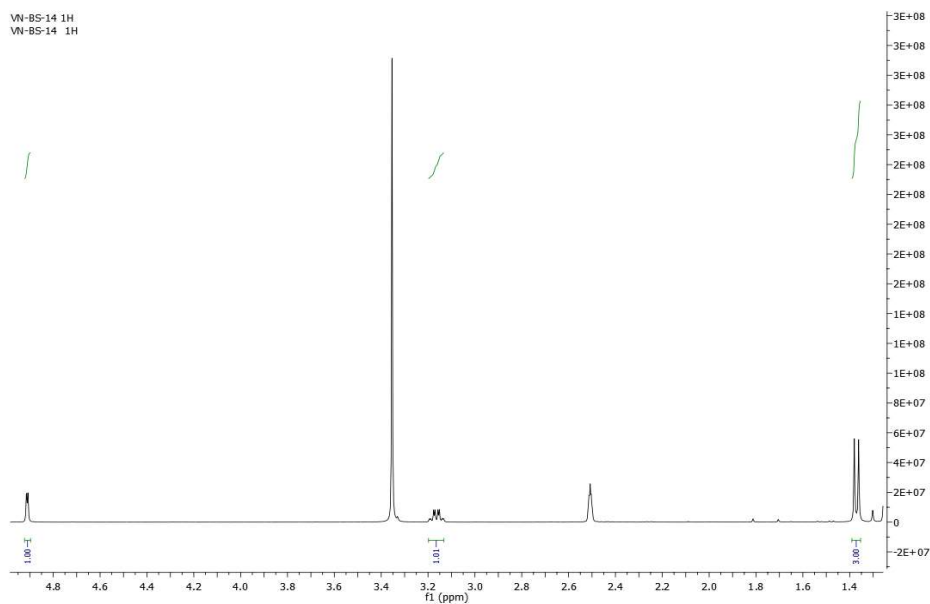
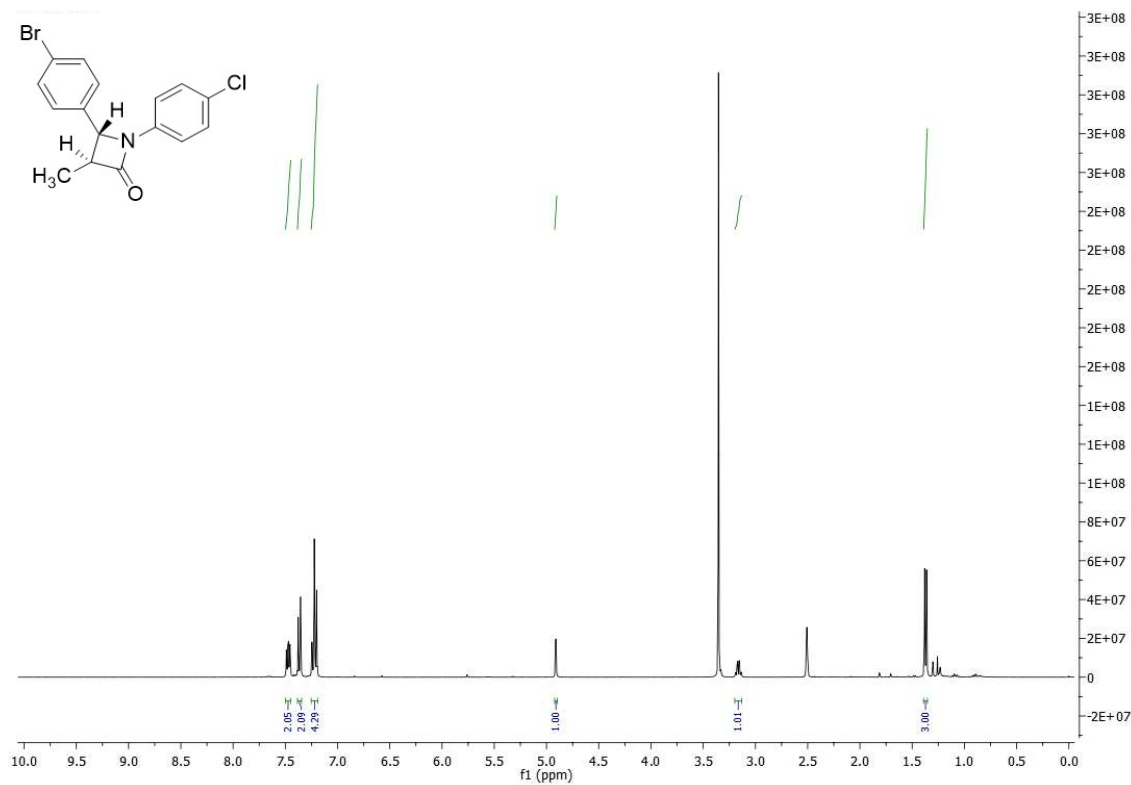


ESI-MS

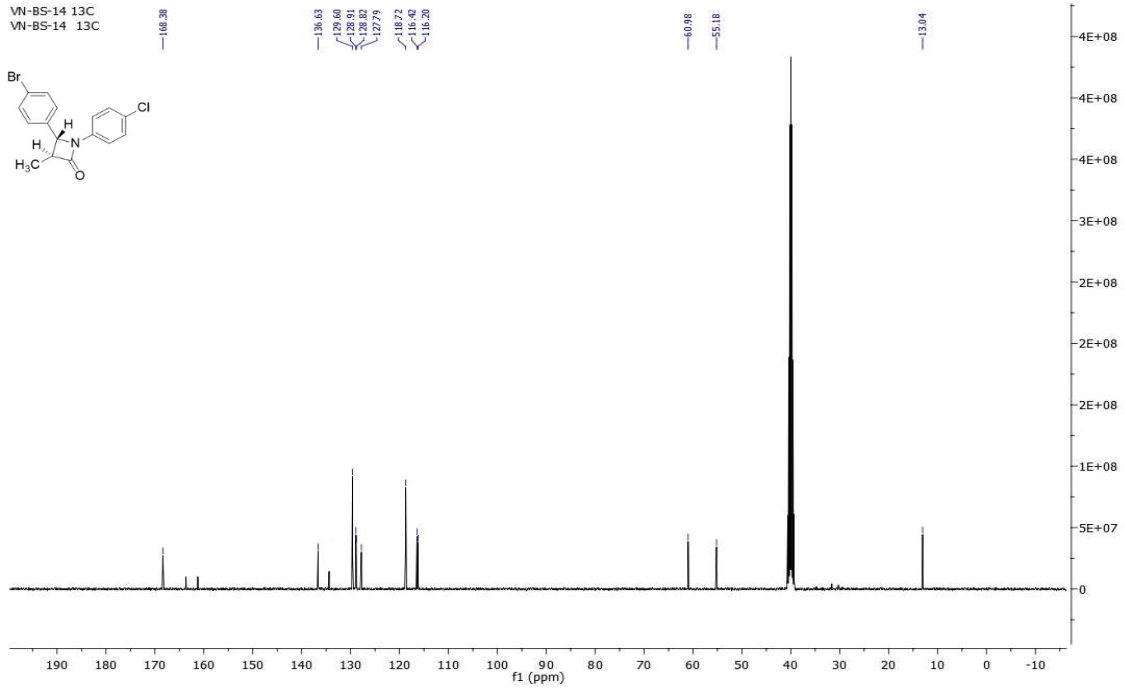


***Trans*-4-(4-bromophenyl)-1-(4-chlorophenyl)-3-methylazetidin-2-one (2l):**

¹H NMR



¹³C NMR



ESI-MS

