

Supplementary Material

A Facile Microwave and SnCl₂ Synthesis of 2,3-Dihydroquinazolin-4(1H)ones

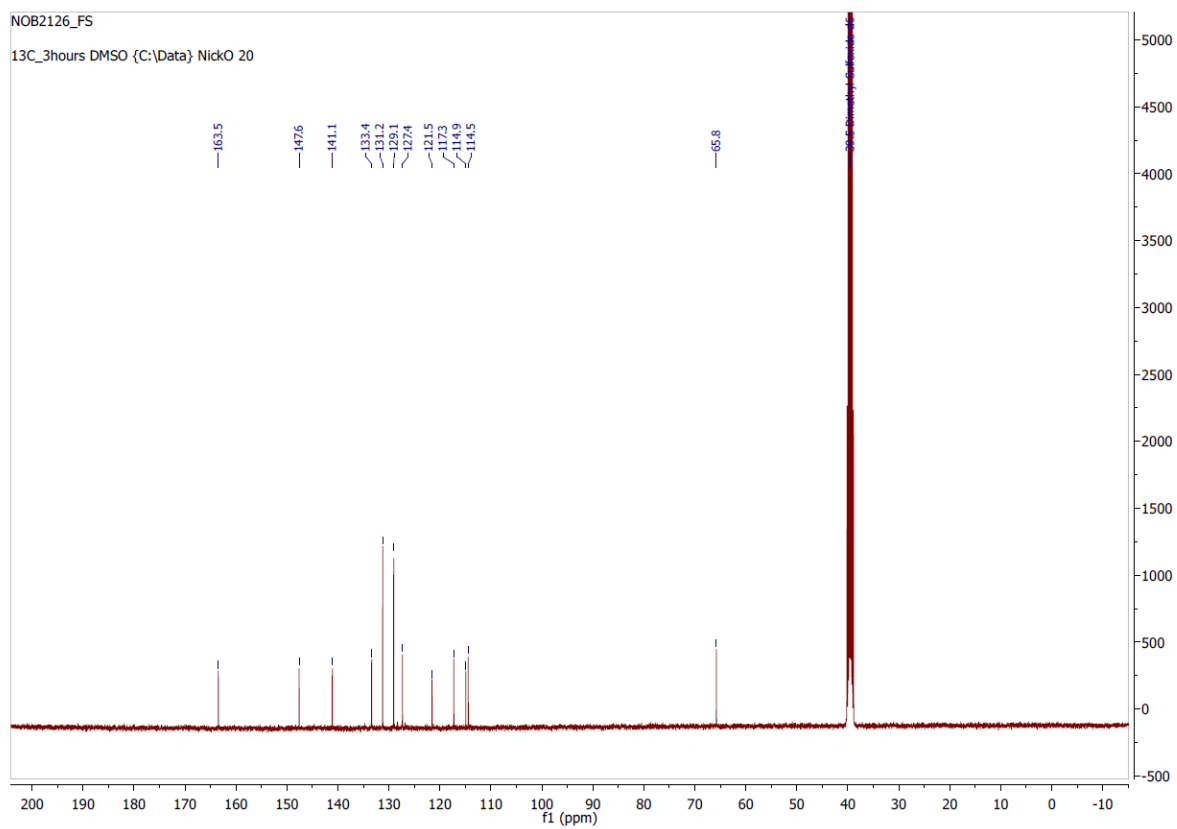
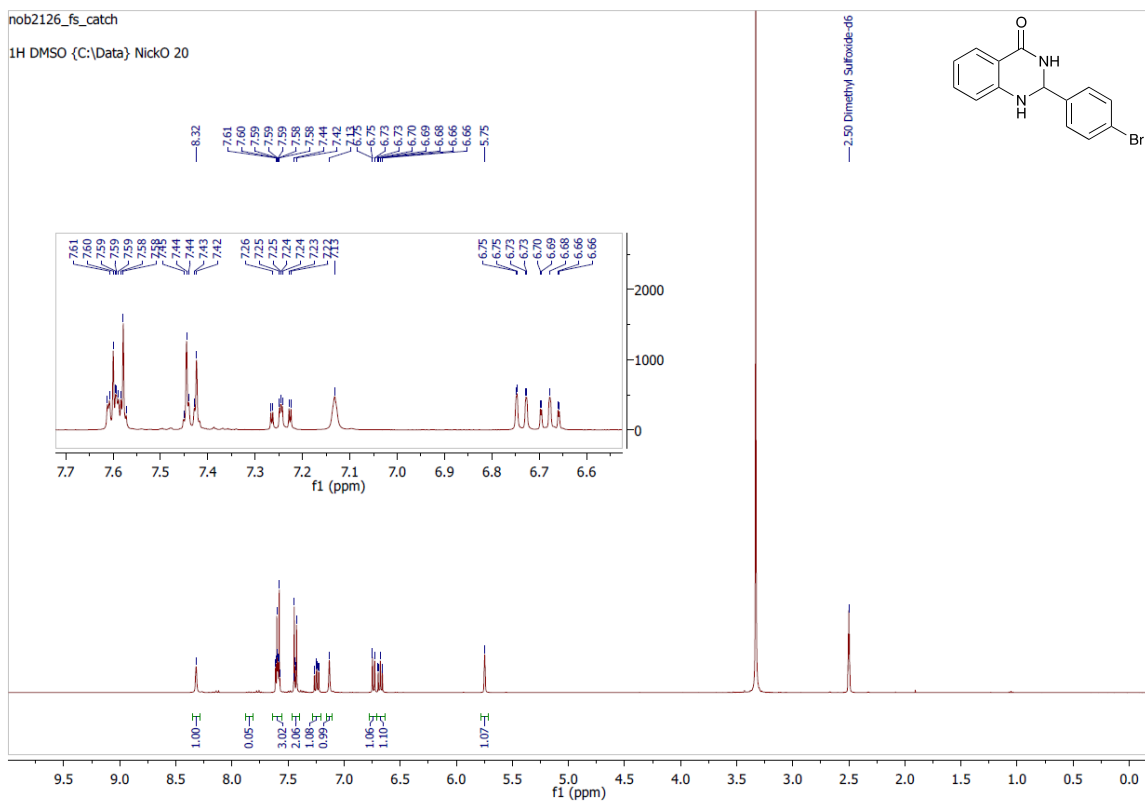
Nicholas S. O'Brien^A and Adam McCluskey^{A,B}

^AChemistry, School of Environmental and Life Sciences, The University of Newcastle, University Drive, Callaghan, NSW 2308, Australia.

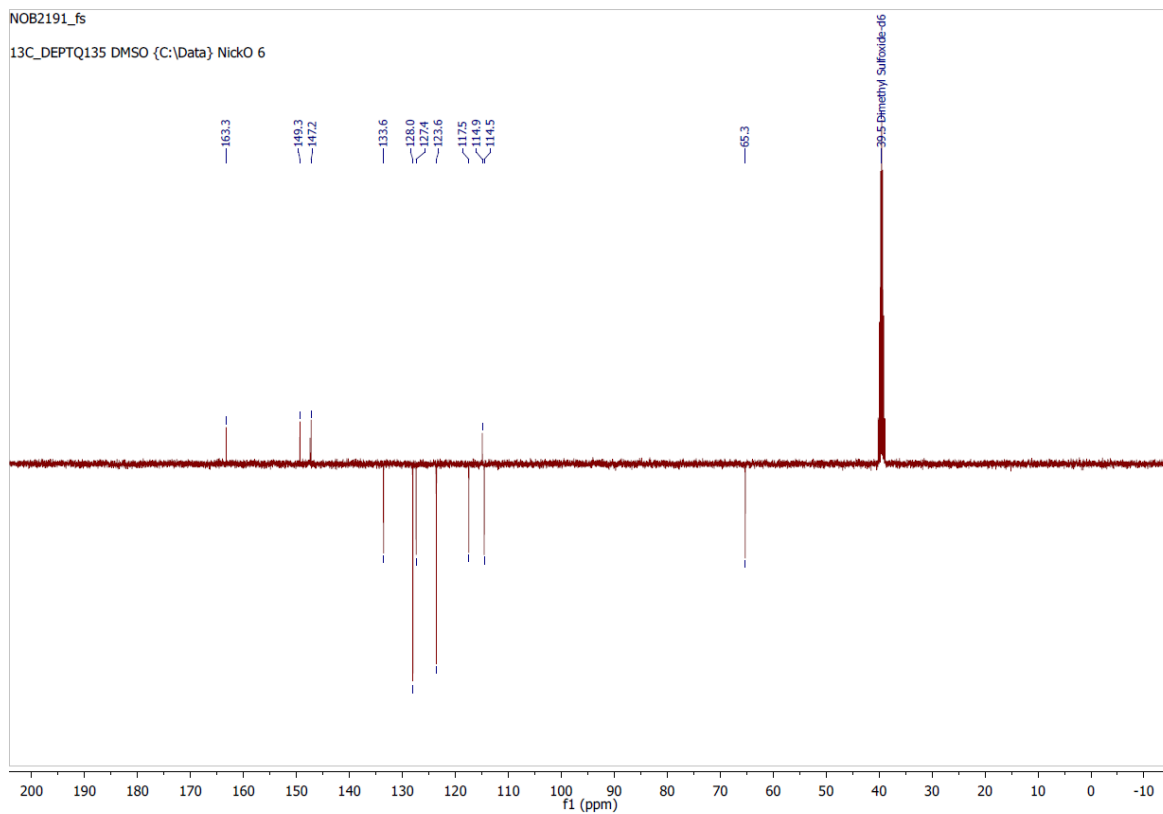
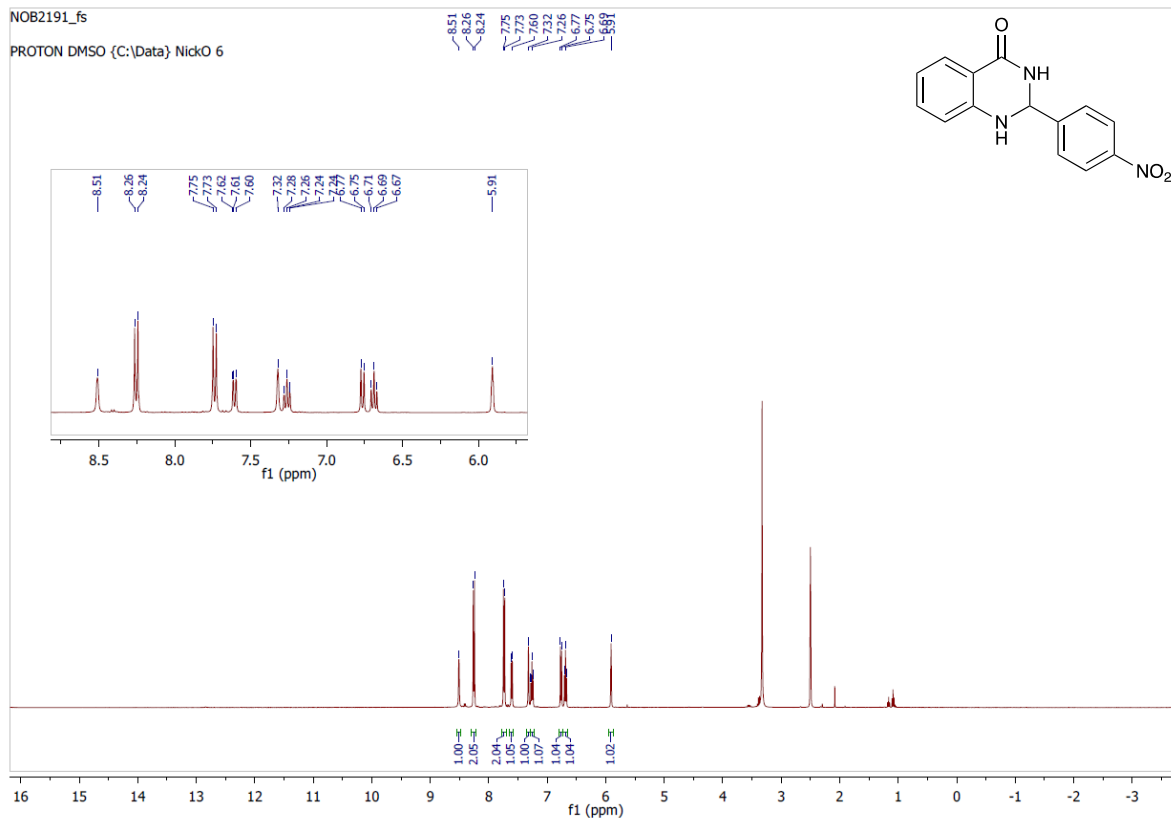
^BCorresponding author. Email: Adam.McCluskey@newcastle.edu.au

¹H and ¹³C NMR spectra were recorded at 400 and 101 MHz, respectively

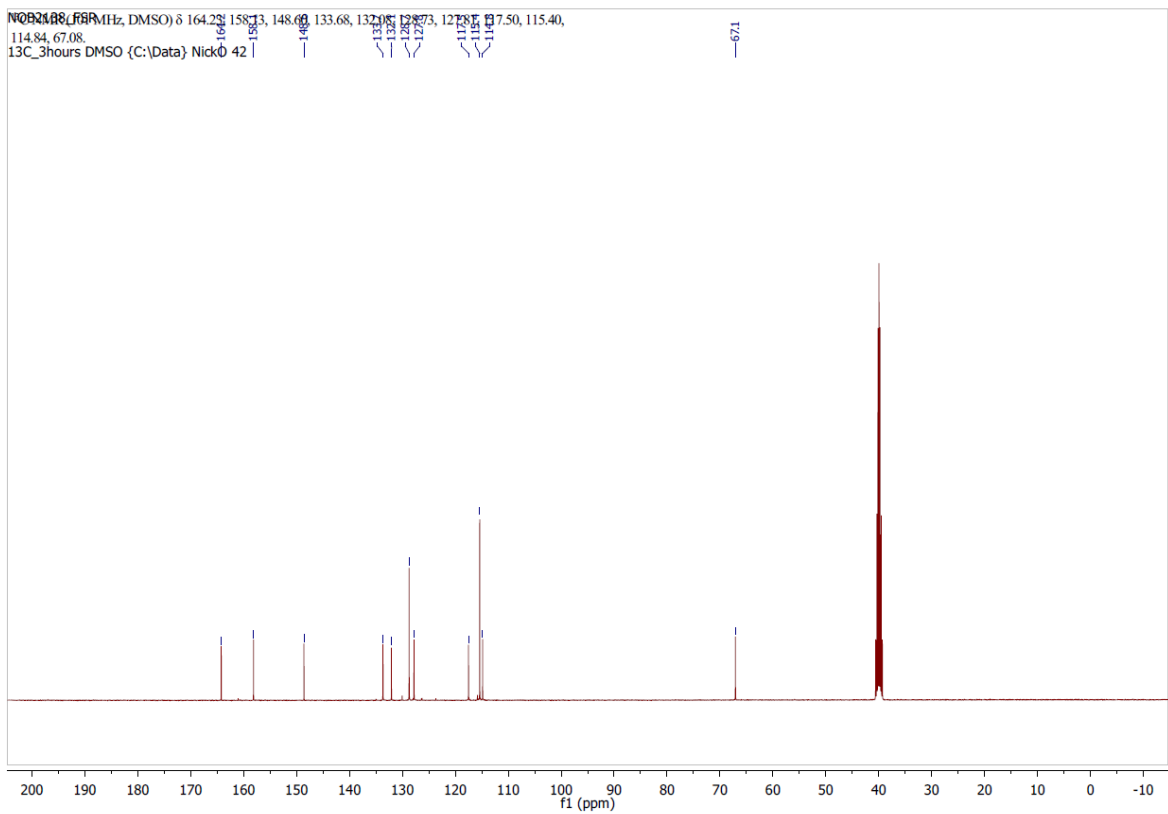
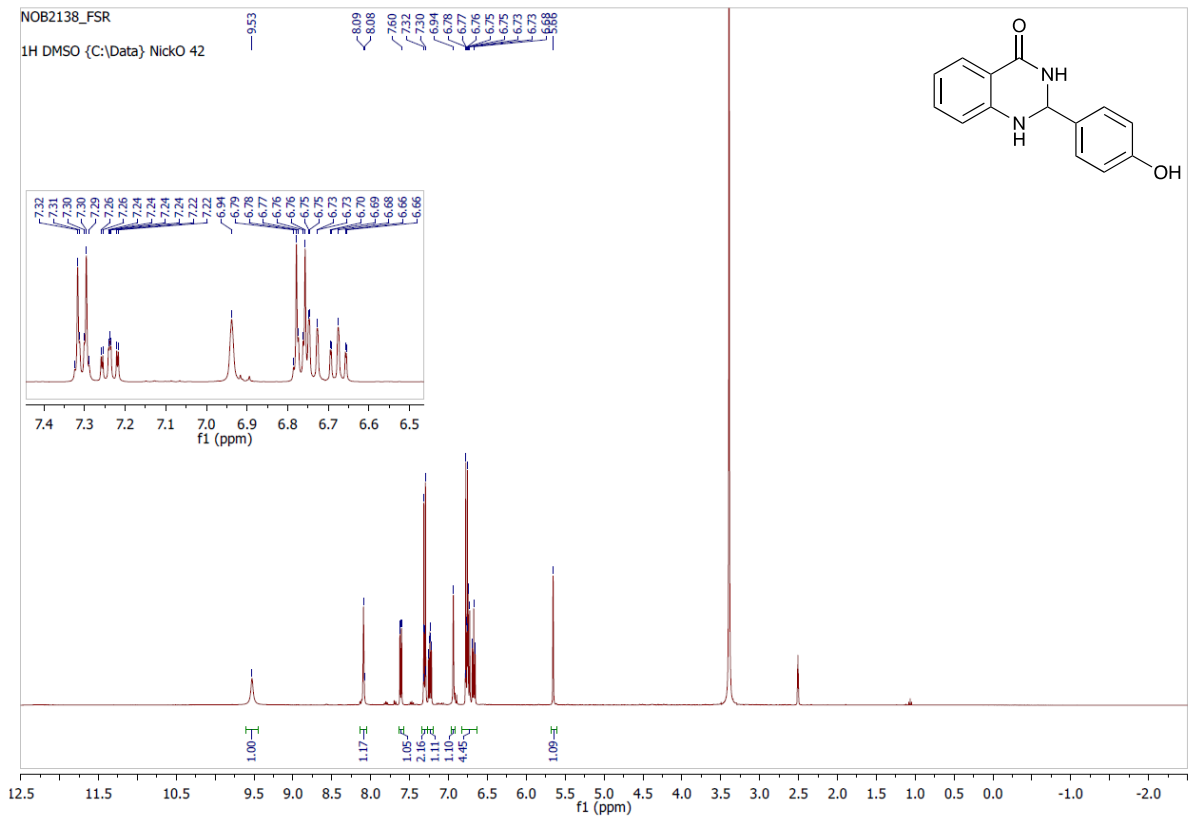
2-(4-Bromophenyl)-2,3-dihydroquinazolin-4(1H)-one (10b)



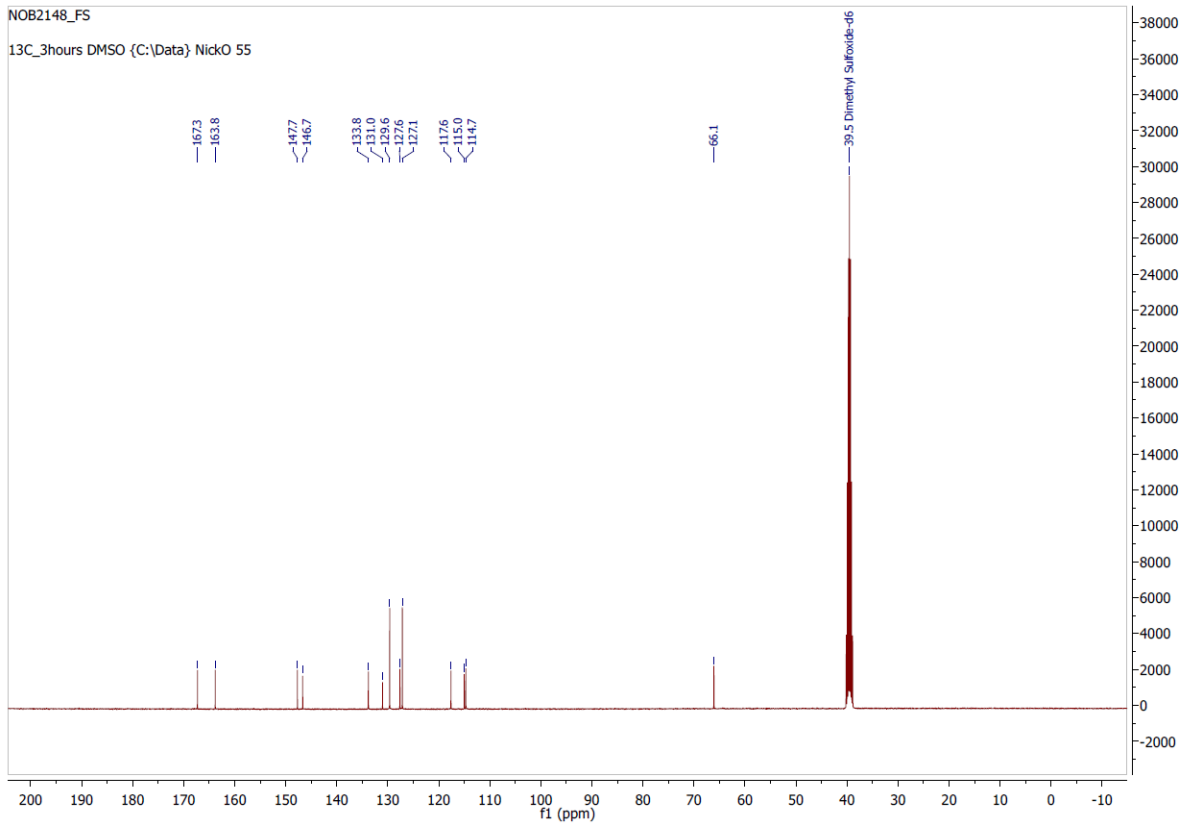
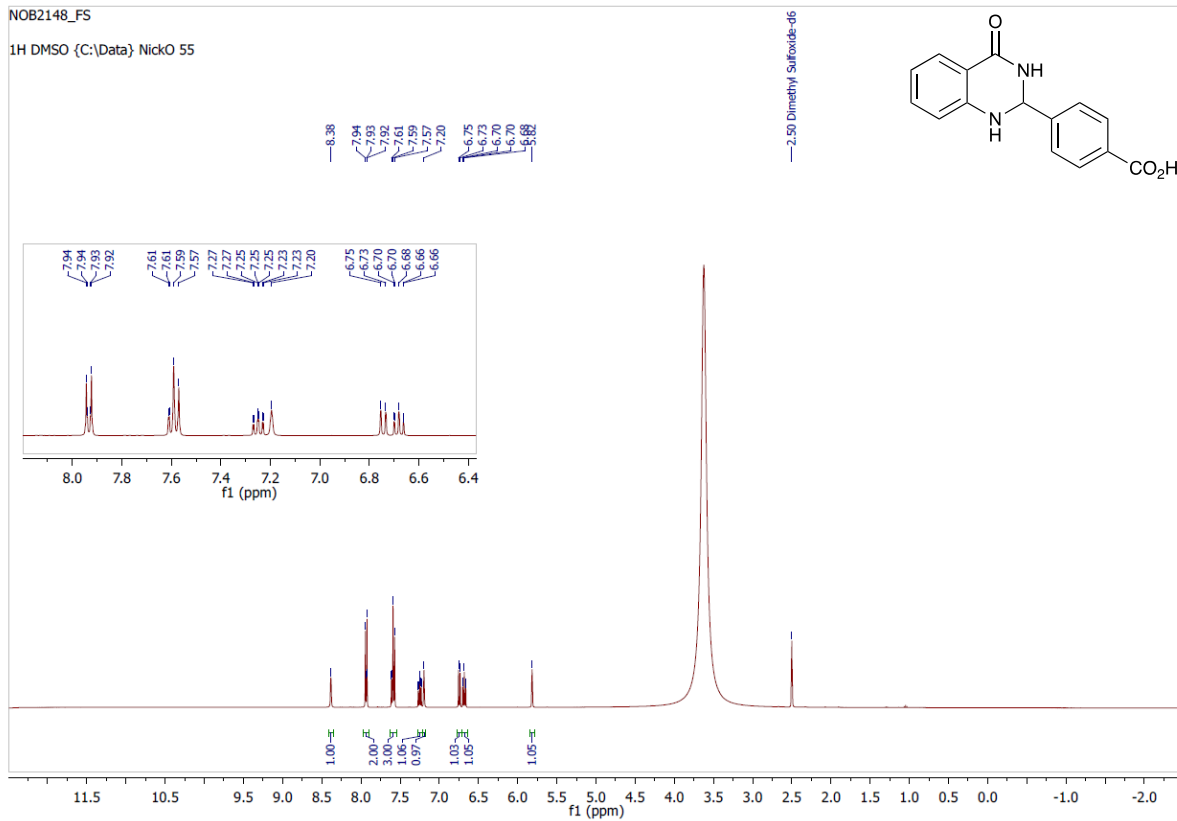
2-(4-Nitrophenyl)-2,3-dihydroquinazolin-4(1H)-one (10c).



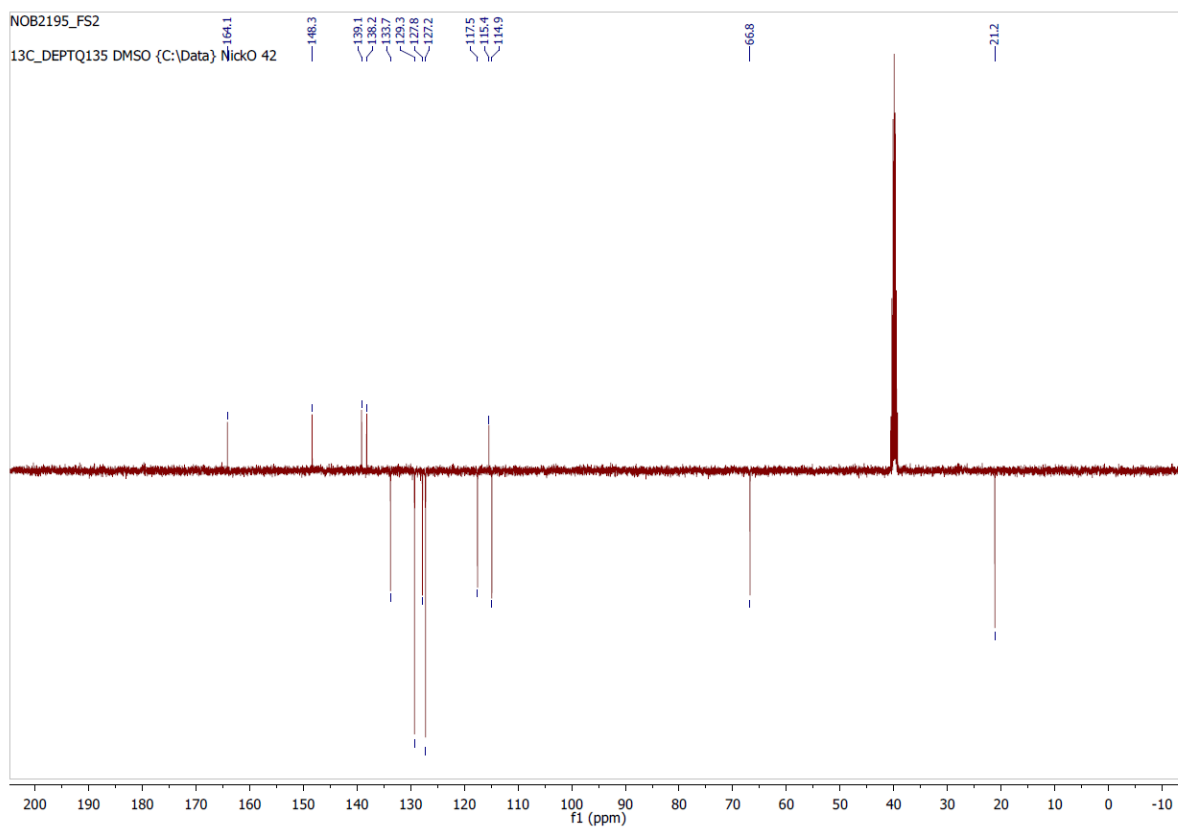
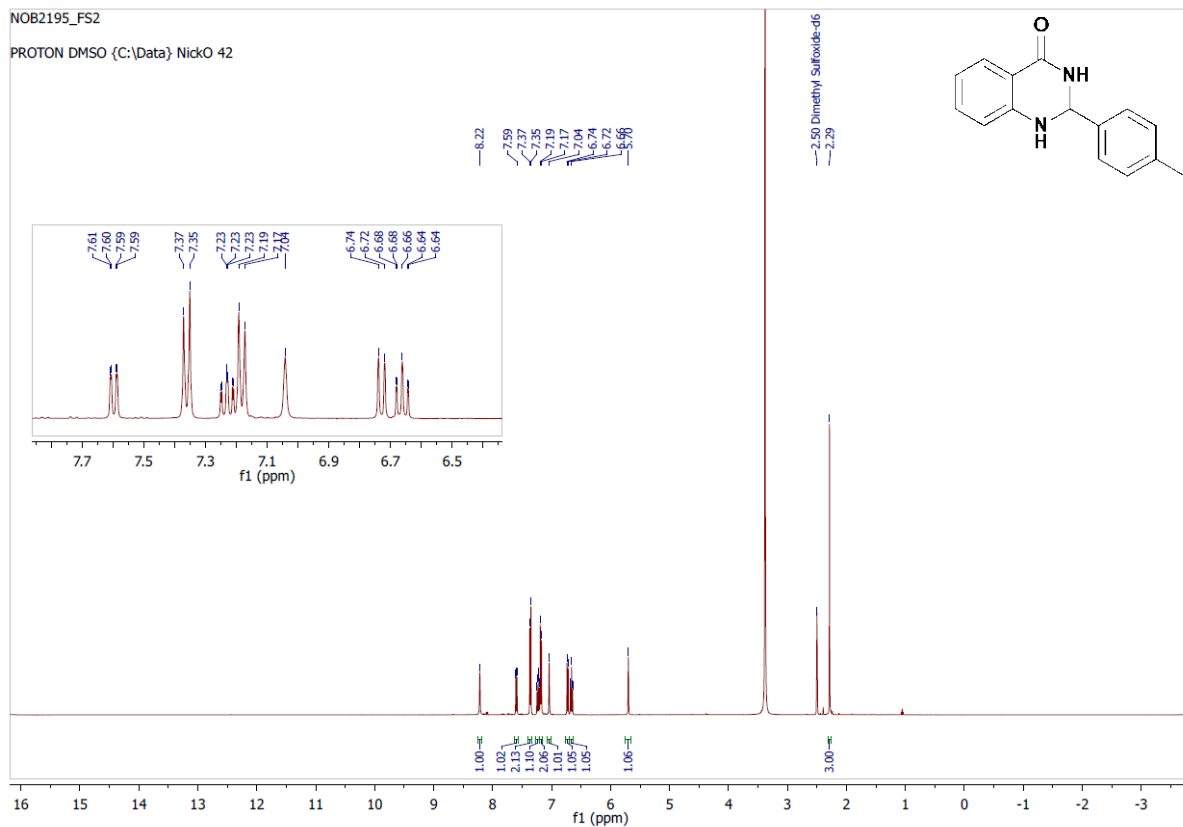
2-(4-Hydroxyphenyl)-2,3-dihydroquinazolin-4(1H)-one (10d)



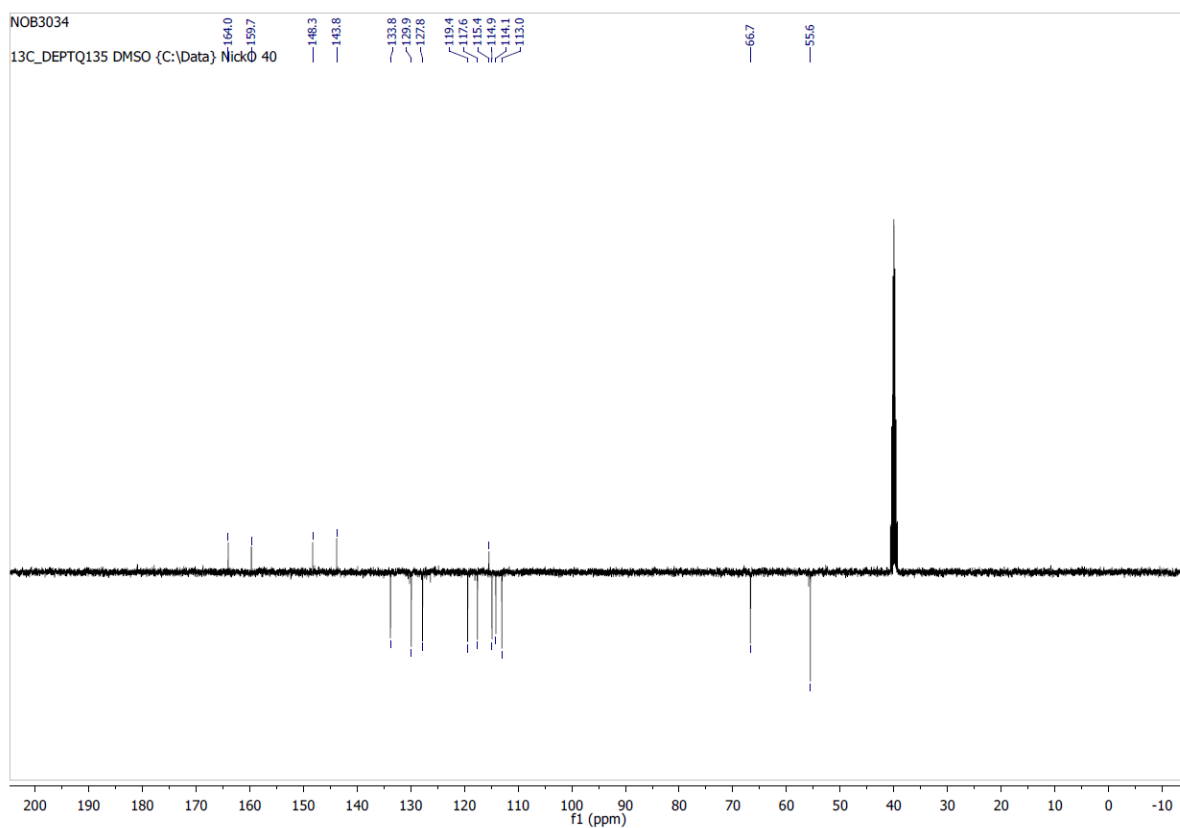
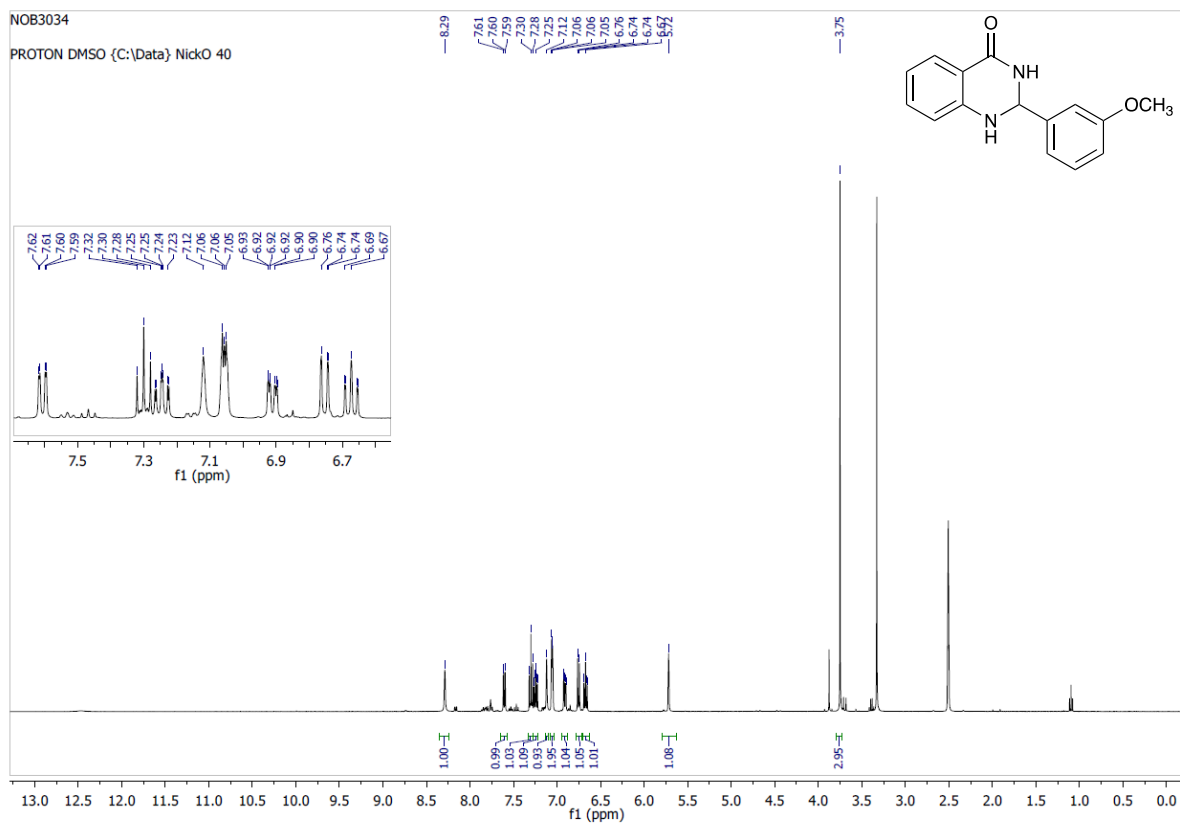
4-(4-Oxo-1,2,3,4-tetrahydroquinazolin-2-yl)benzoic acid (10e)



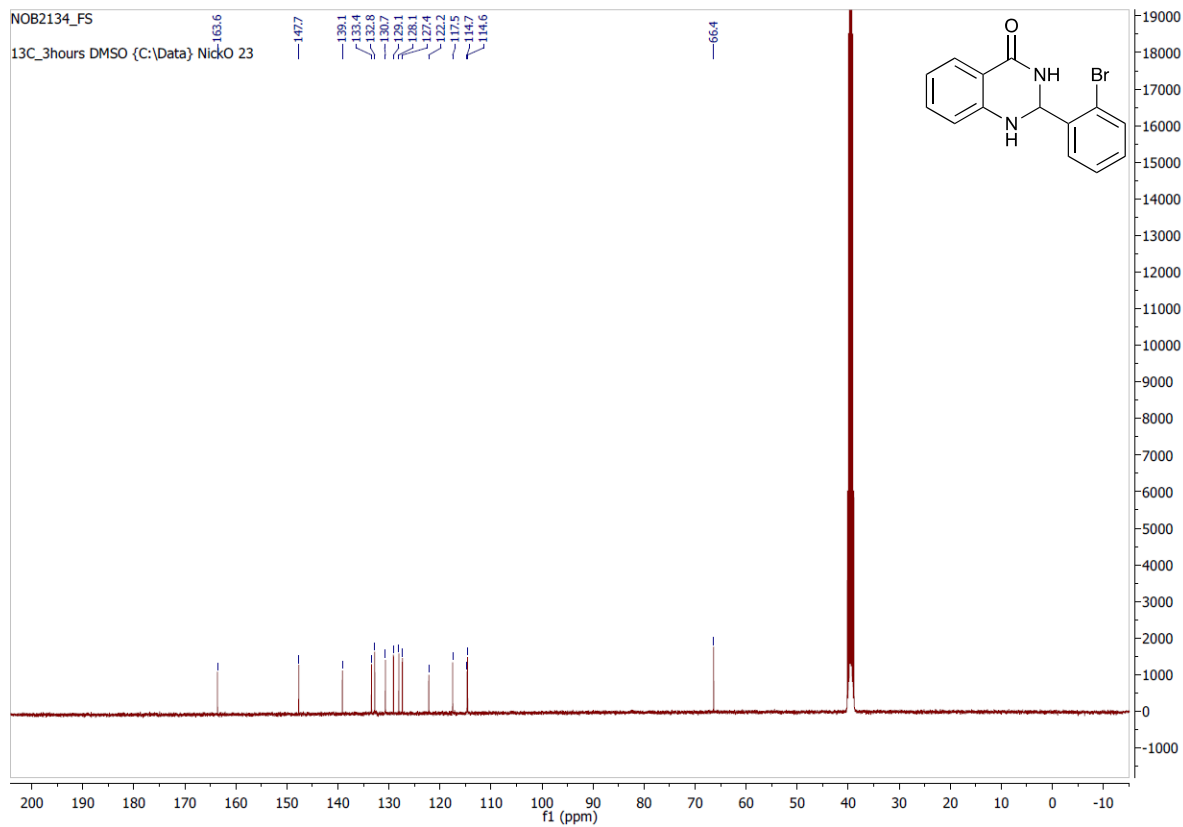
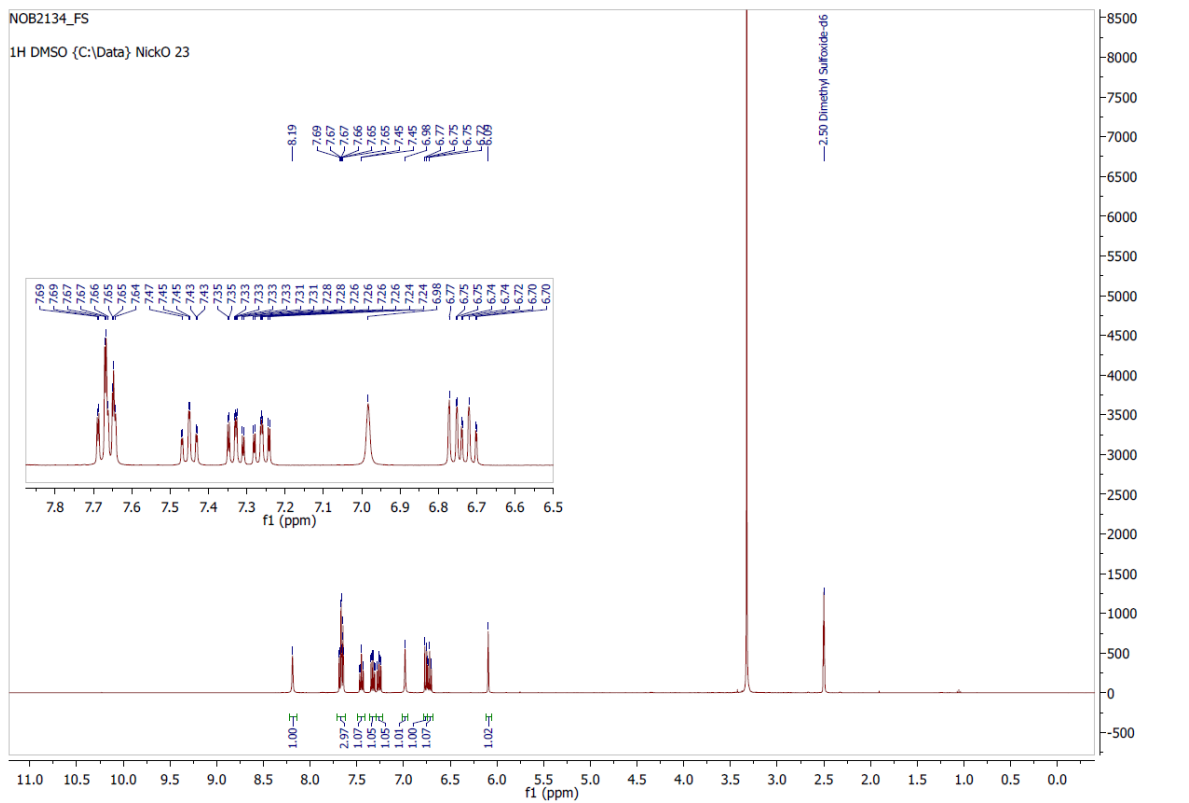
2-(p-Tolyl)-2,3-dihydroquinazolin-4(1H)-one (10f)



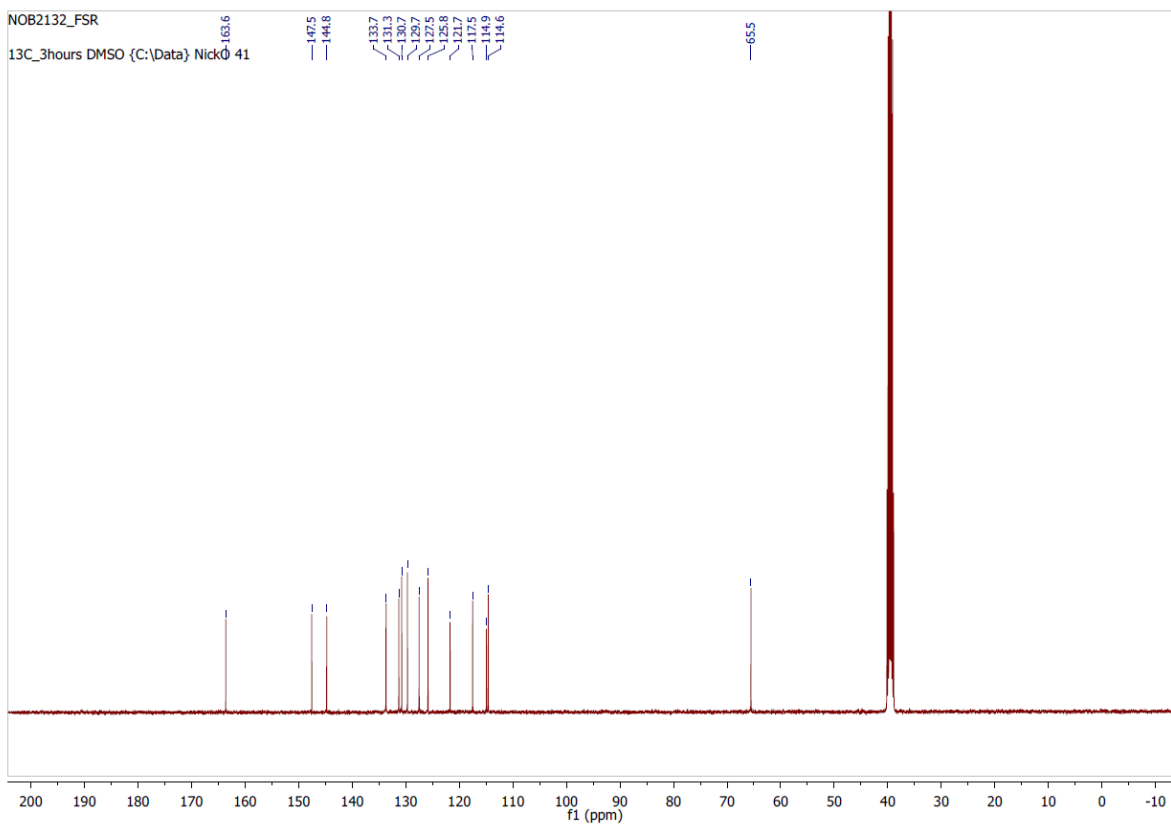
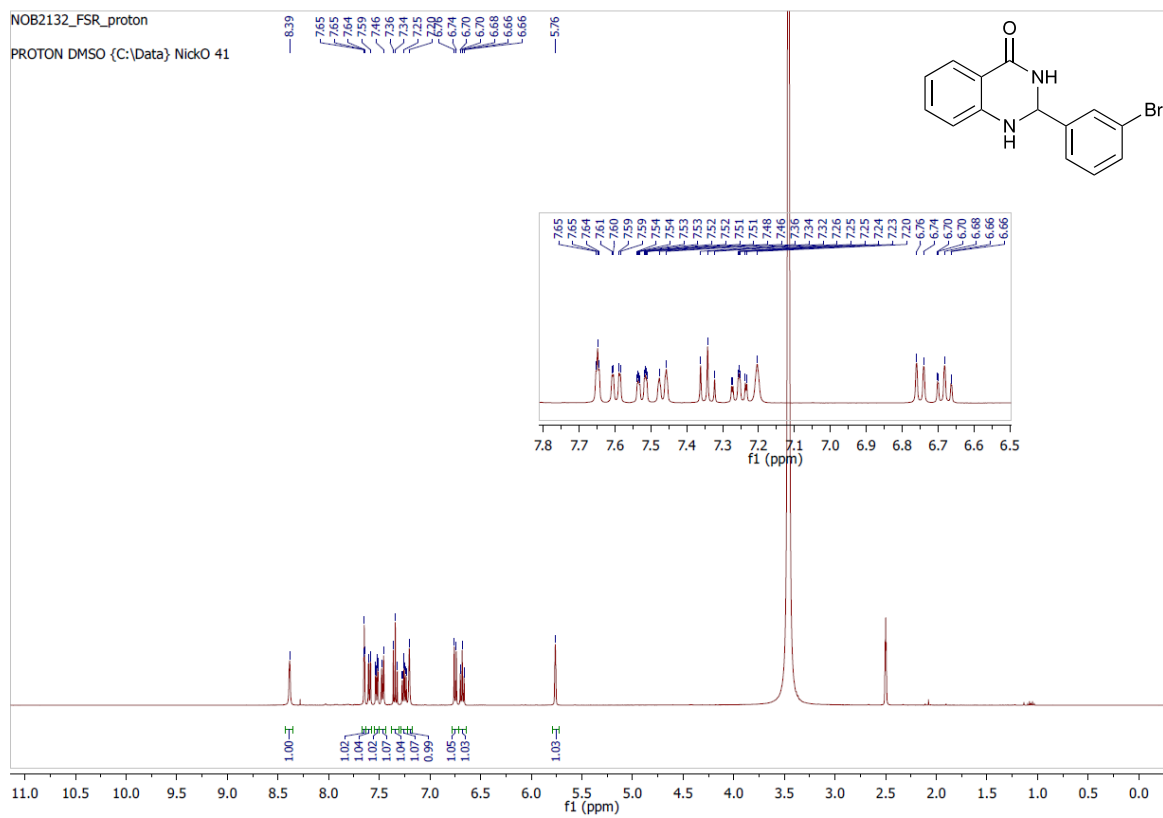
2-(3-Methoxyphenyl)-2,3-dihydroquinazolin-4(1H)-one (10g)



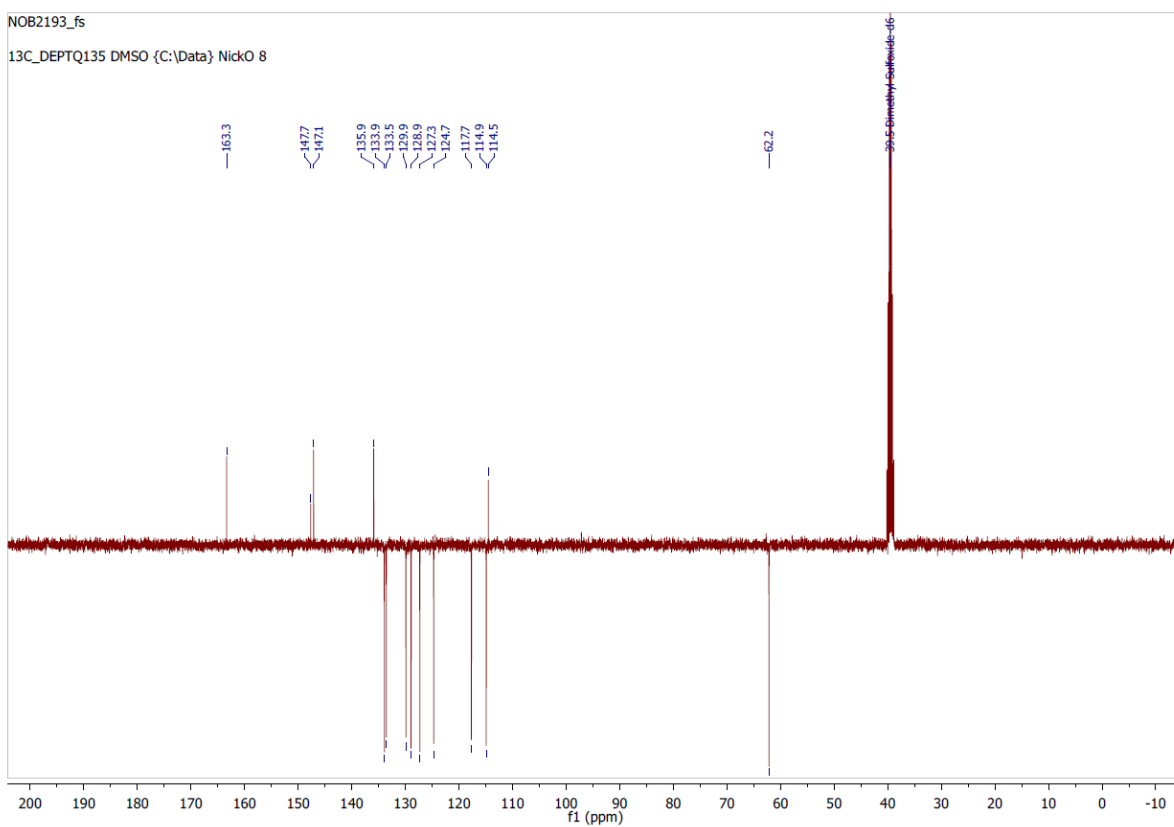
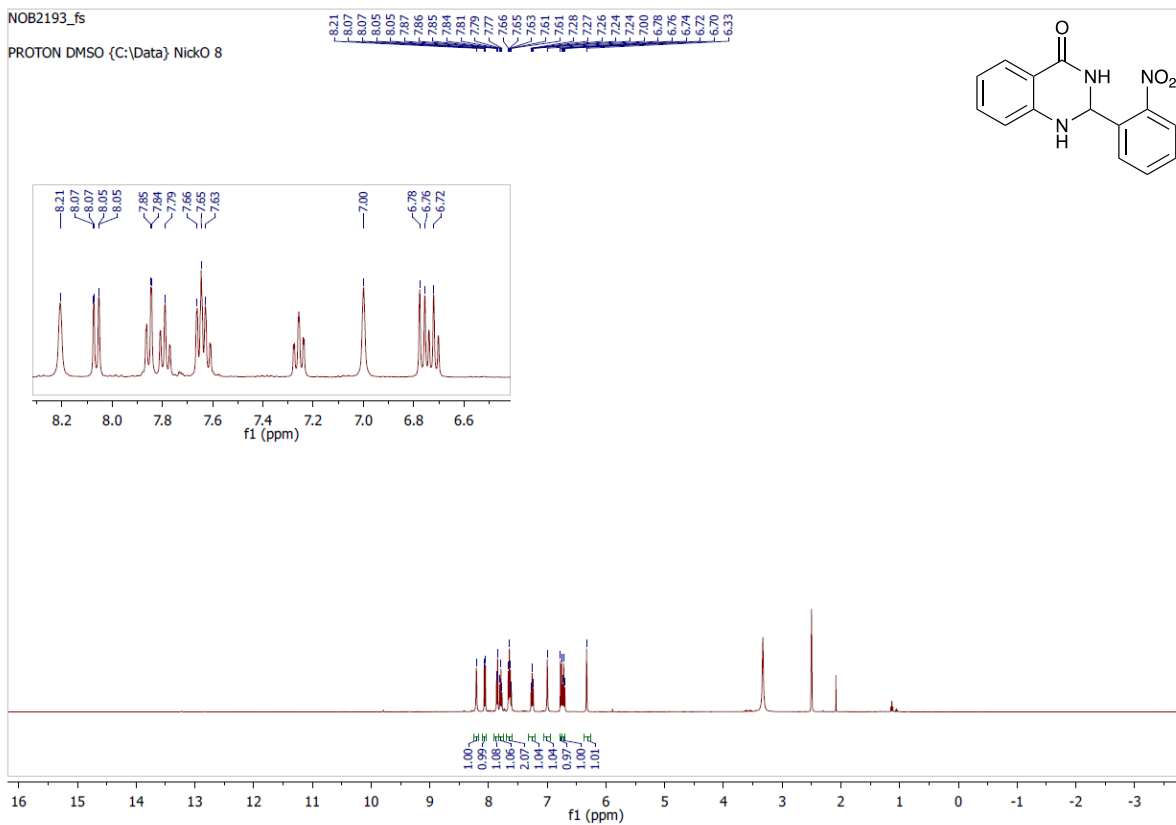
2-(2-Bromophenyl)-2,3-dihydroquinazolin-4(1H)-one (10h)



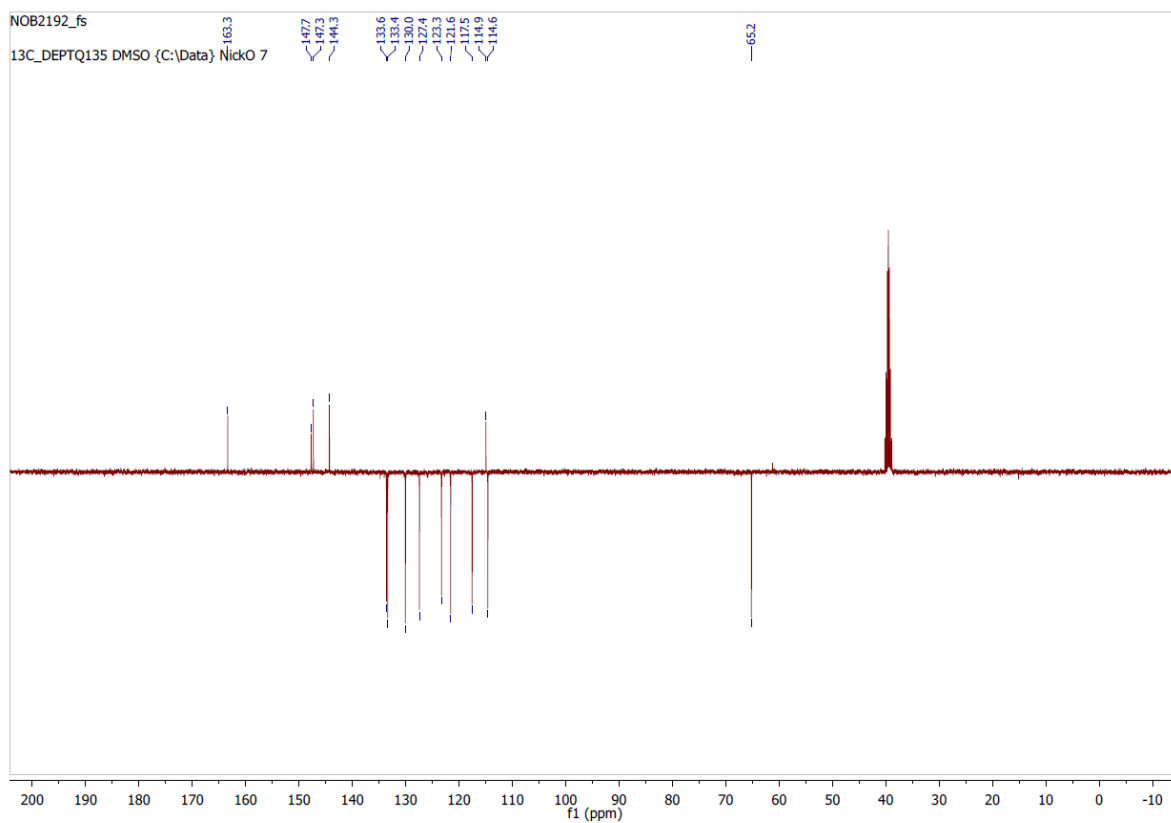
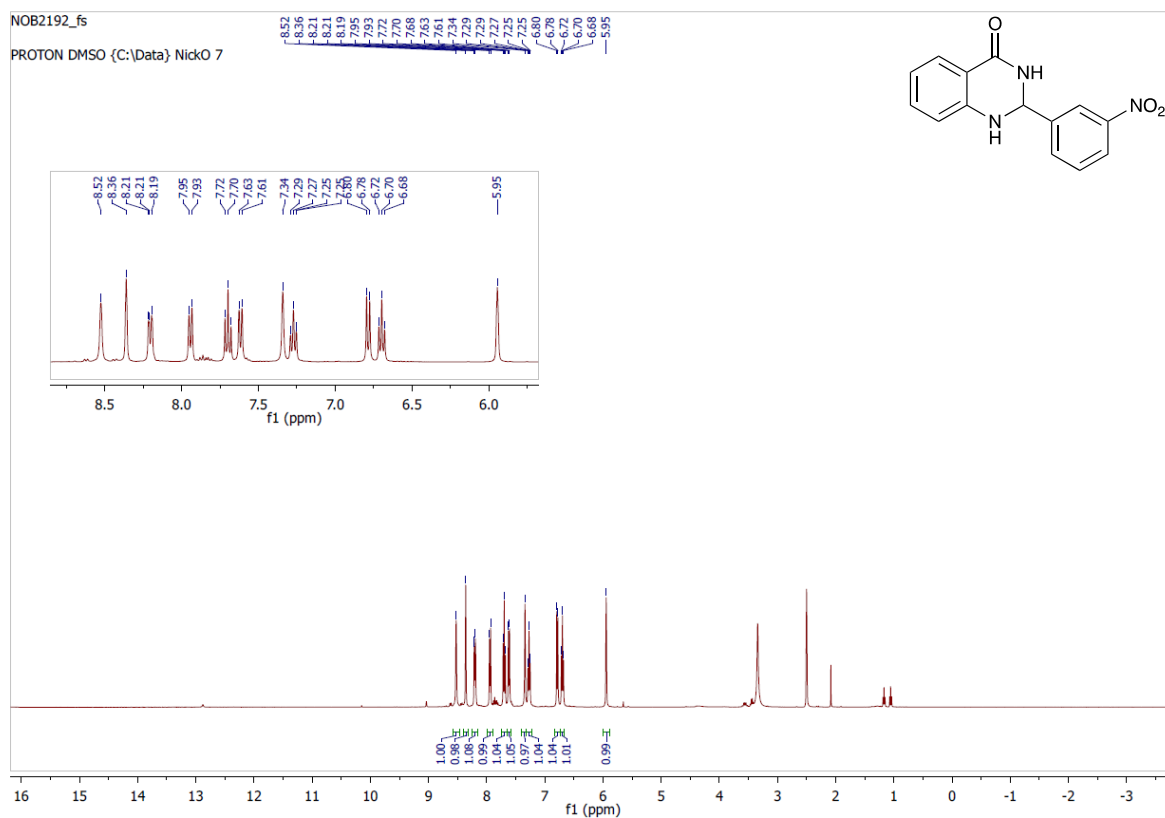
2-(3-Bromophenyl)-2,3-dihydroquinazolin-4(1H)-one (10i)



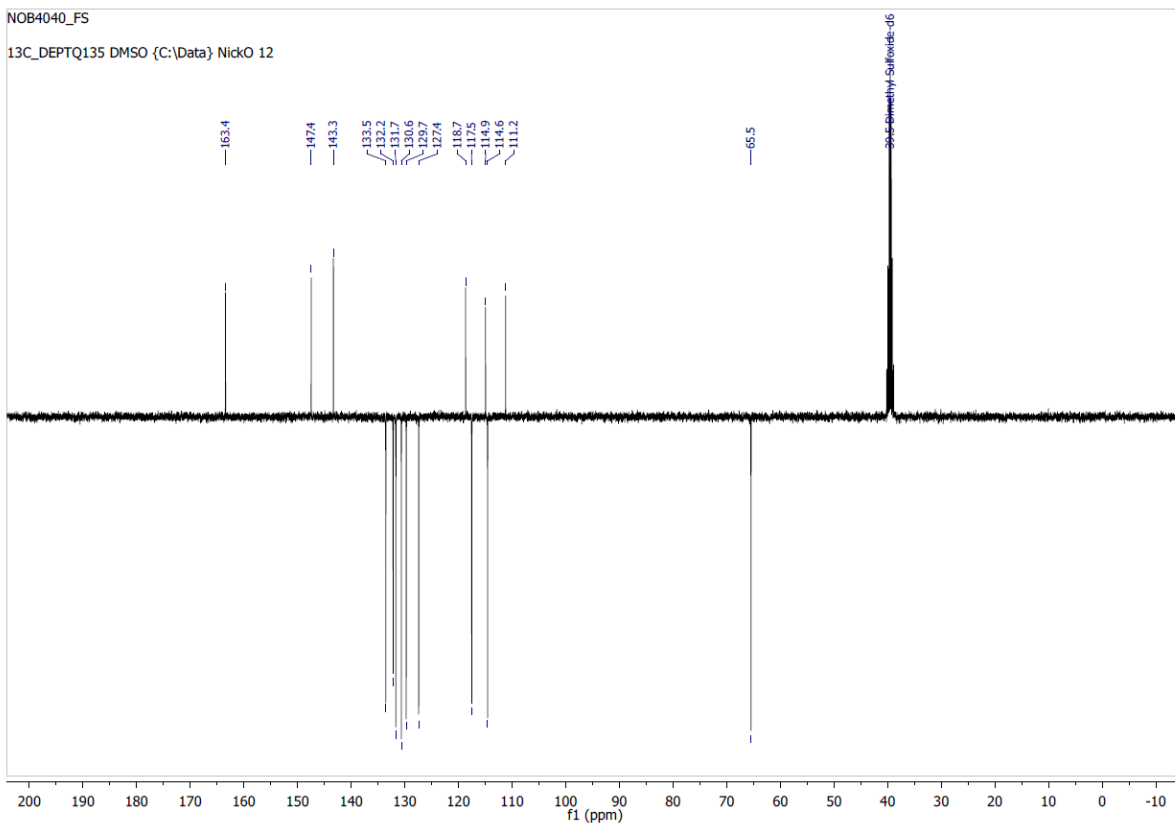
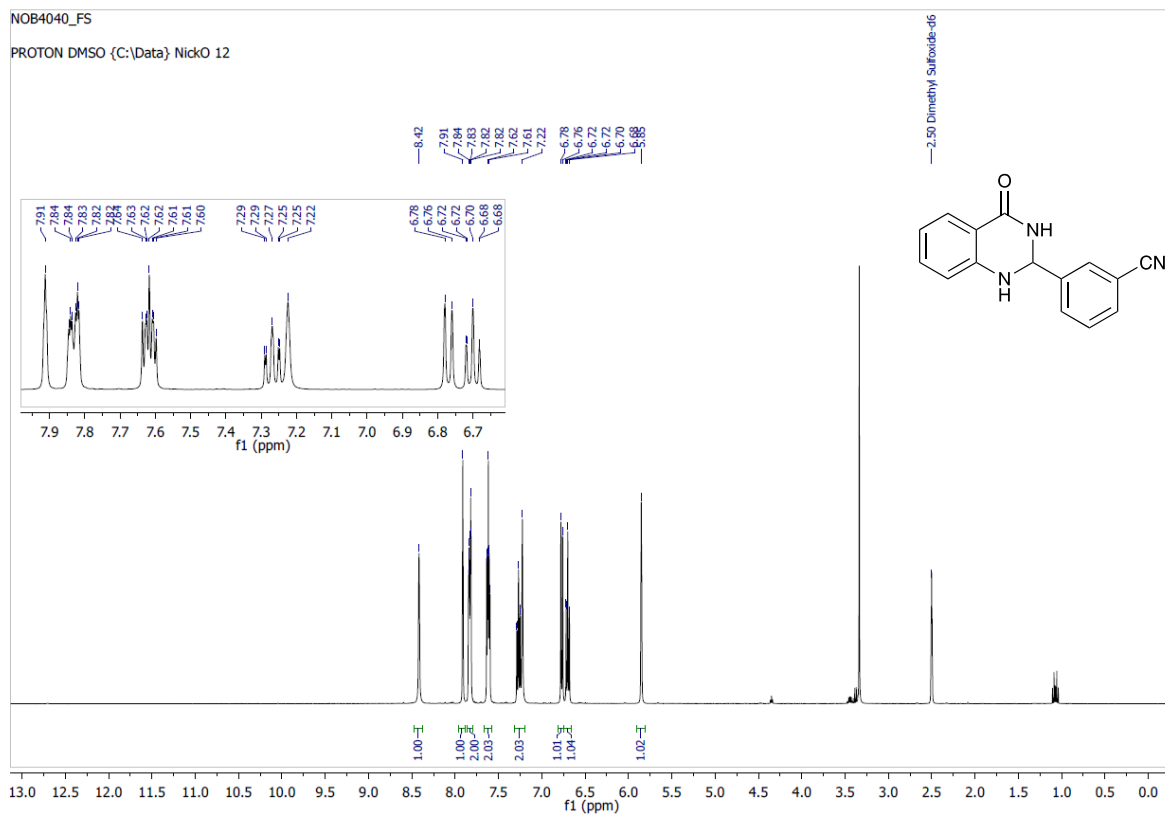
2-(2-Nitrophenyl)-2,3-dihydroquinazolin-4(1H)-one (10k)



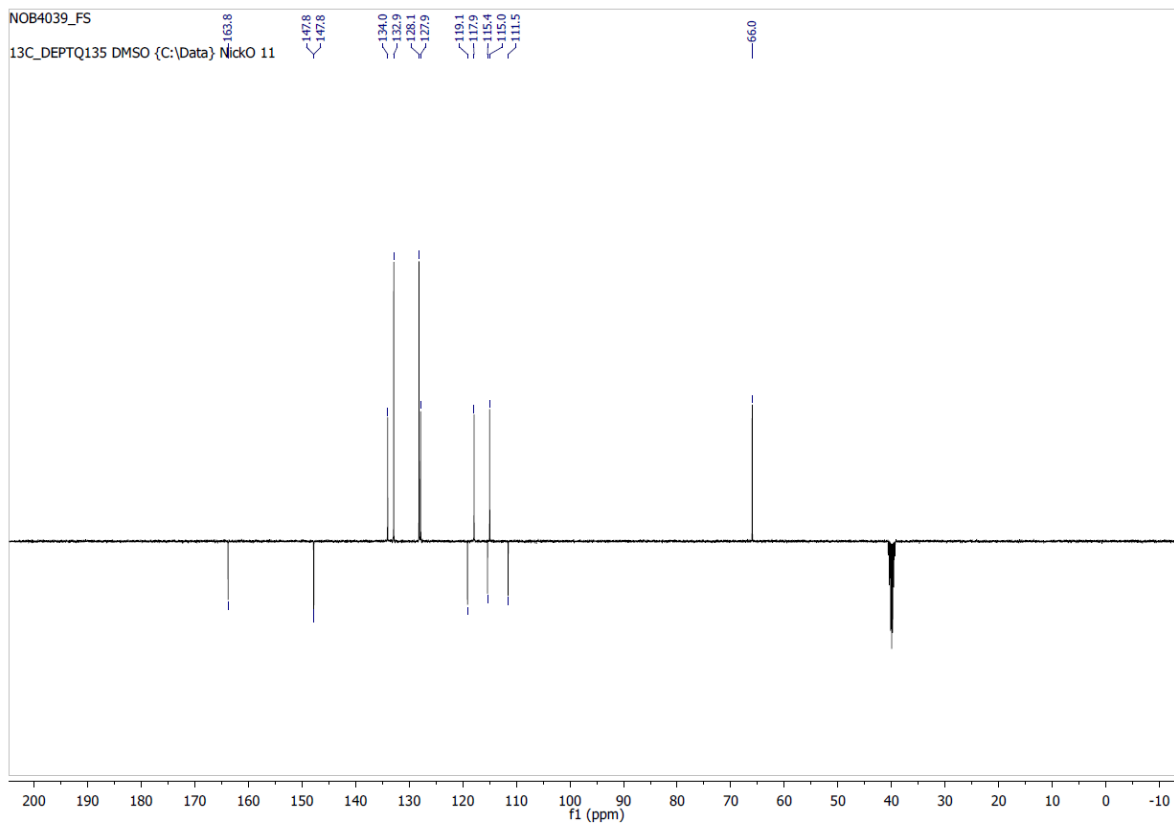
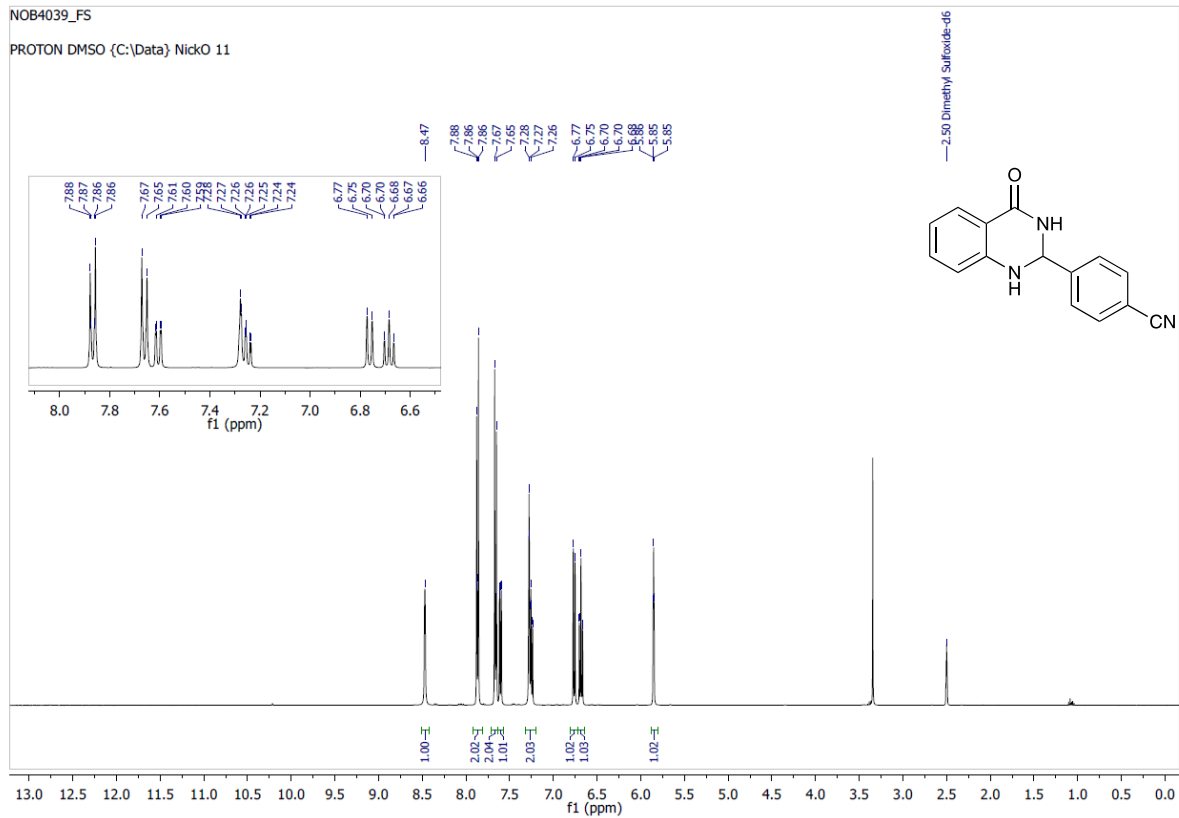
2-(3-Nitrophenyl)-2,3-dihydroquinazolin-4(1H)-one (10I)



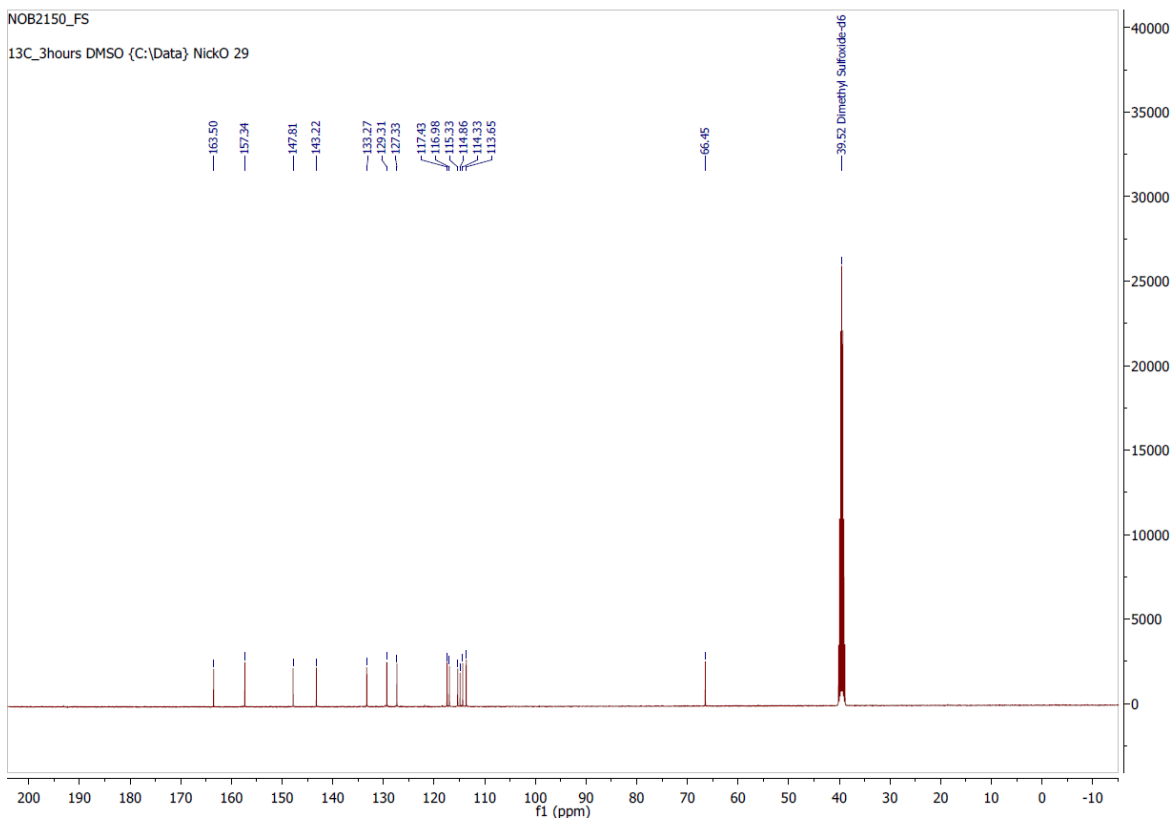
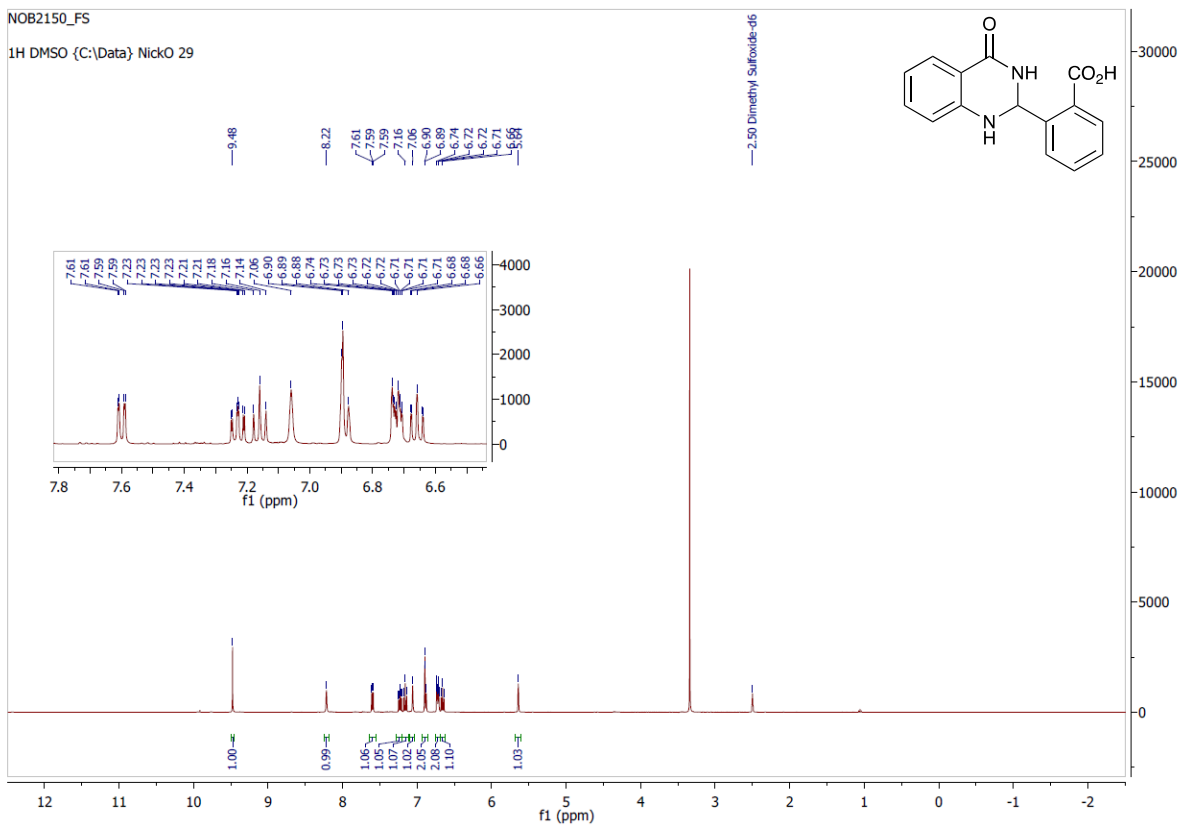
4-(4-Oxo-1,2,3,4-tetrahydroquinazolin-2-yl)benzonitrile (**10m**)



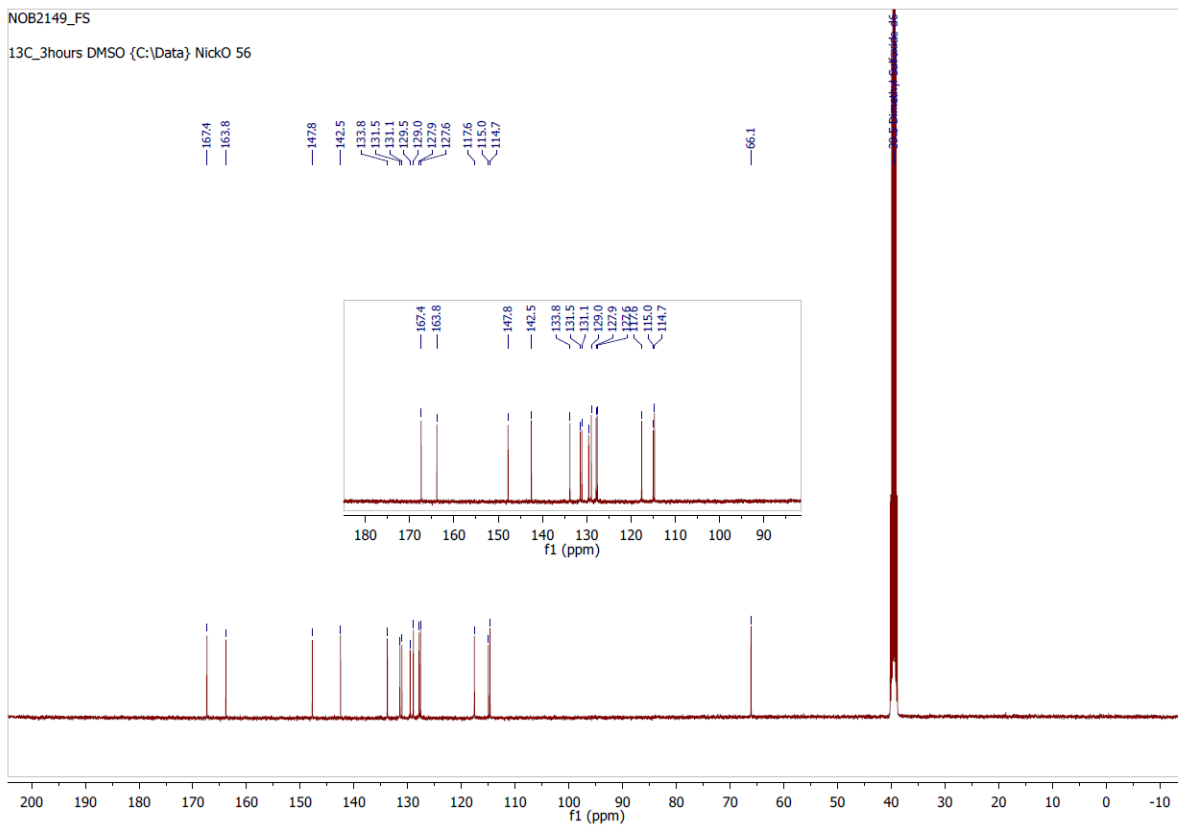
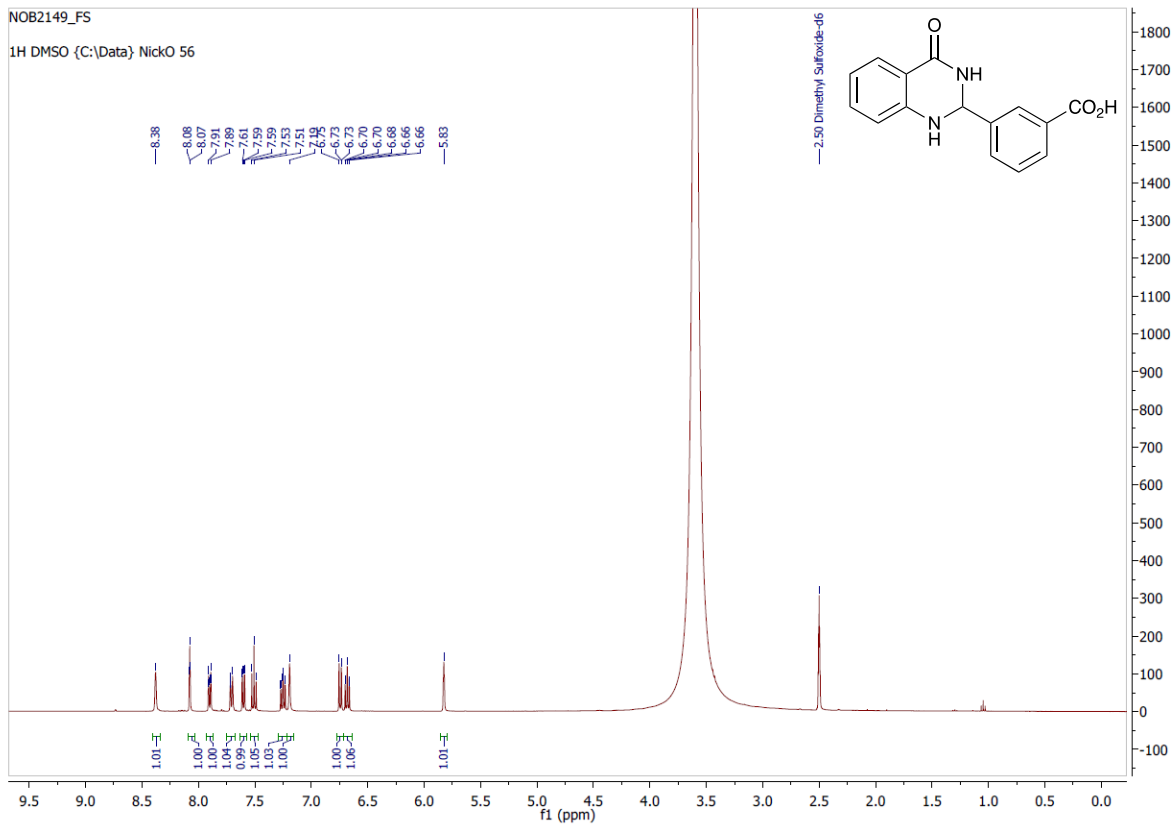
4-(4-Oxo-1,2,3,4-tetrahydroquinazolin-2-yl)benzonitrile (**10n**)



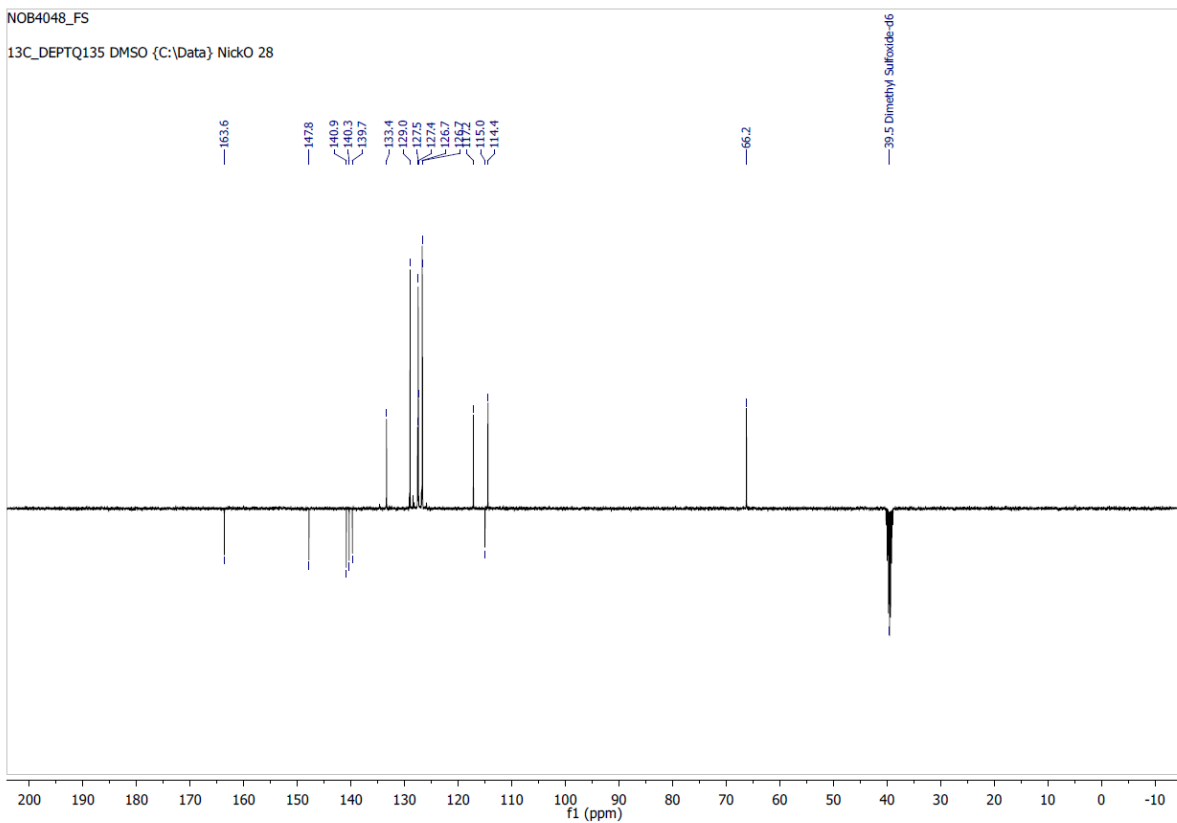
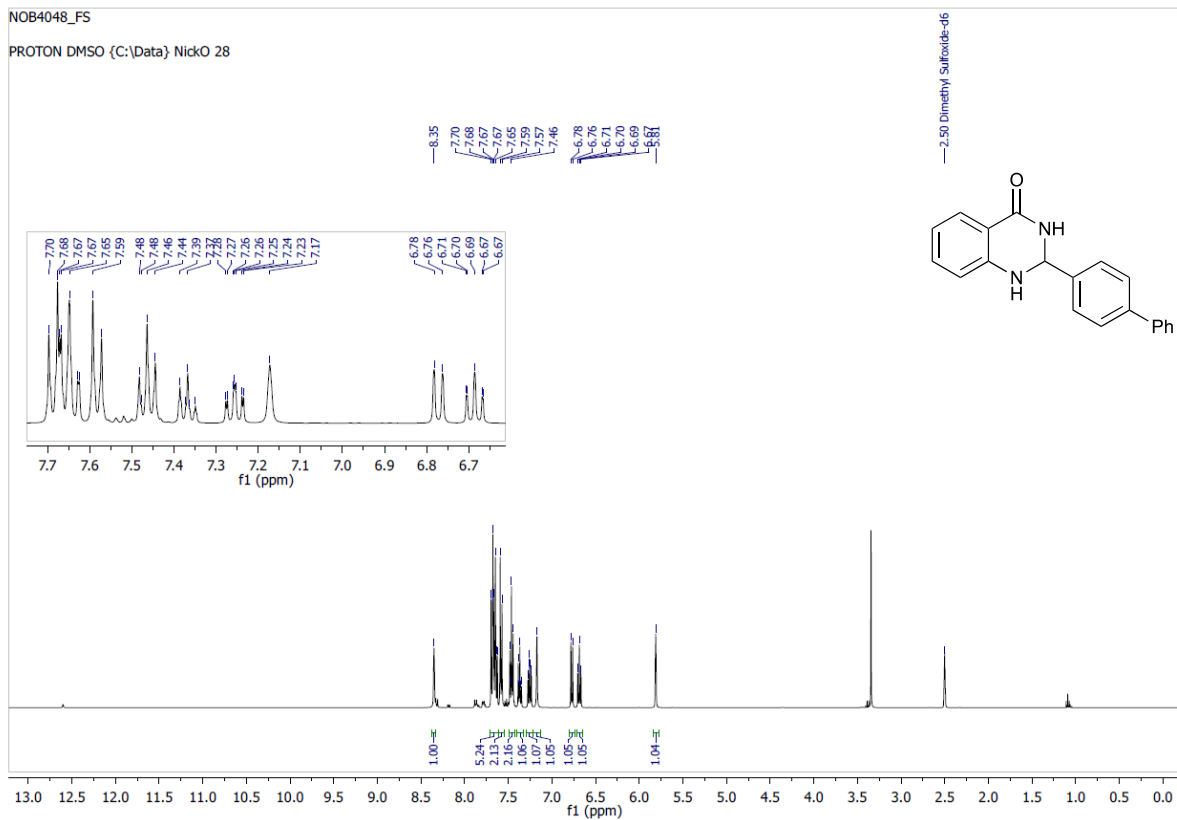
2-(4-Oxo-1,2,3,4-tetrahydroquinazolin-2-yl)benzoic acid (**10o**)



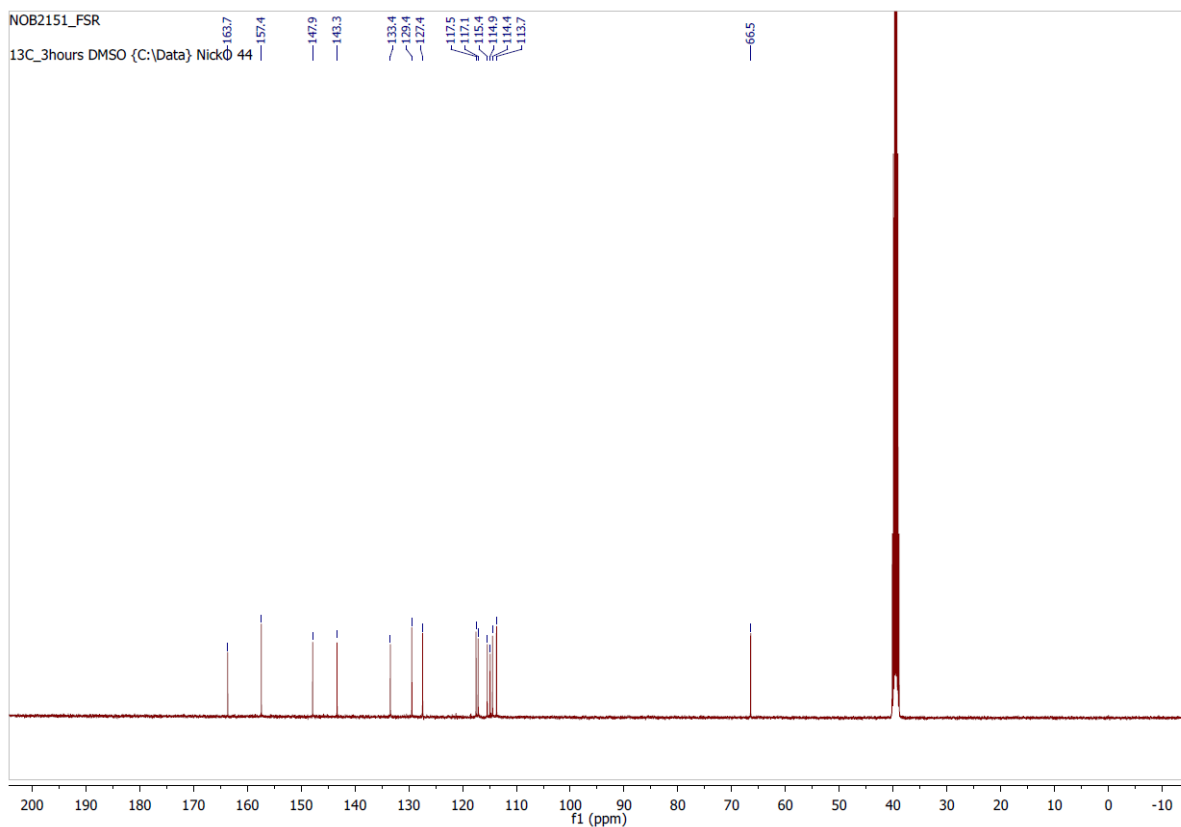
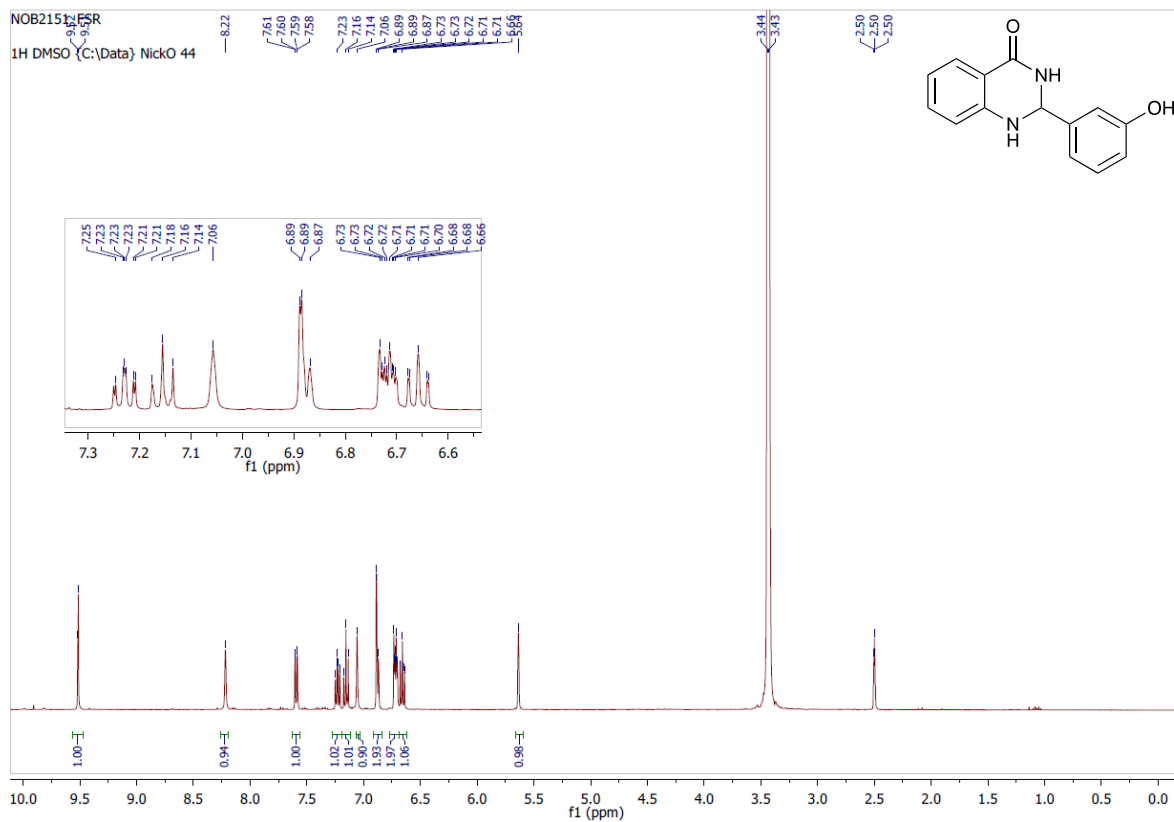
3-(4-Oxo-1,2,3,4-tetrahydroquinazolin-2-yl)benzoic acid (**10p**)



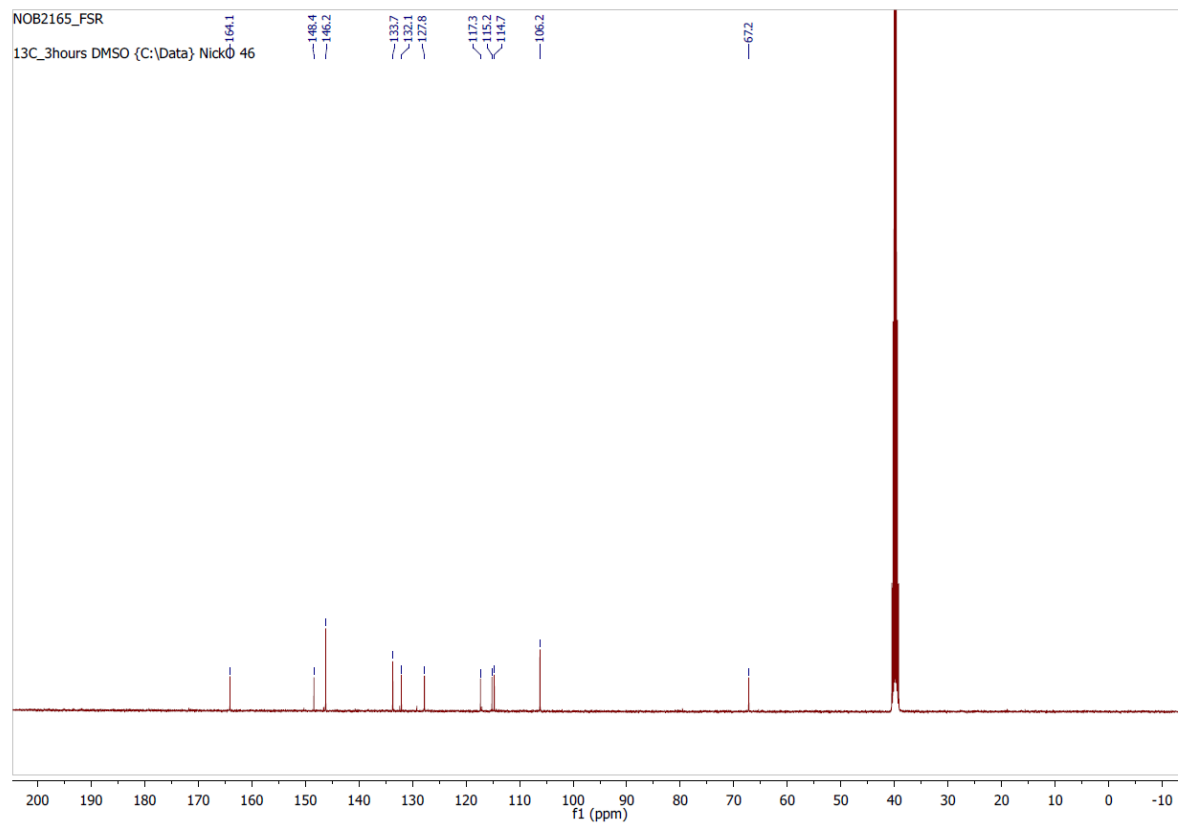
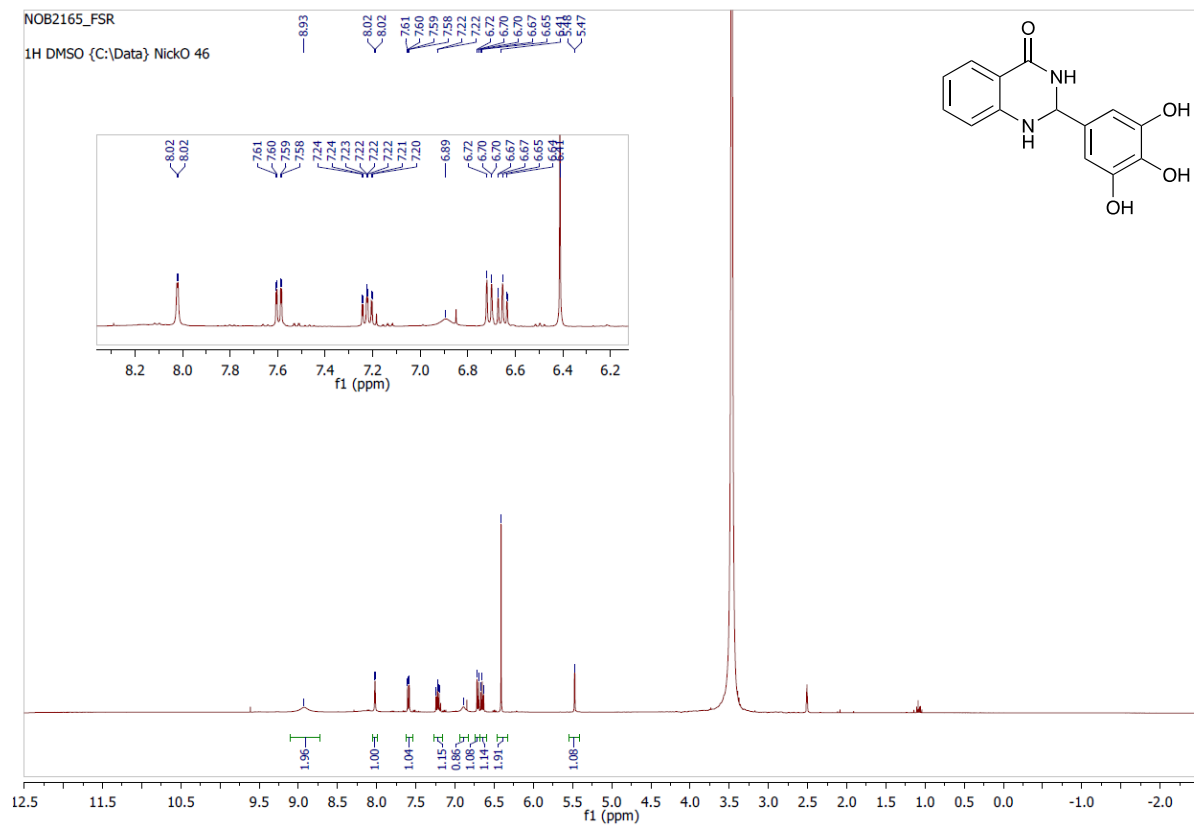
2-([1,1'-Biphenyl]-4-yl)-2,3-dihydroquinazolin-4(1H)-one (**10q**)



2-(3-Hydroxyphenyl)-2,3-dihydroquinazolin-4(1H)-one (10s)

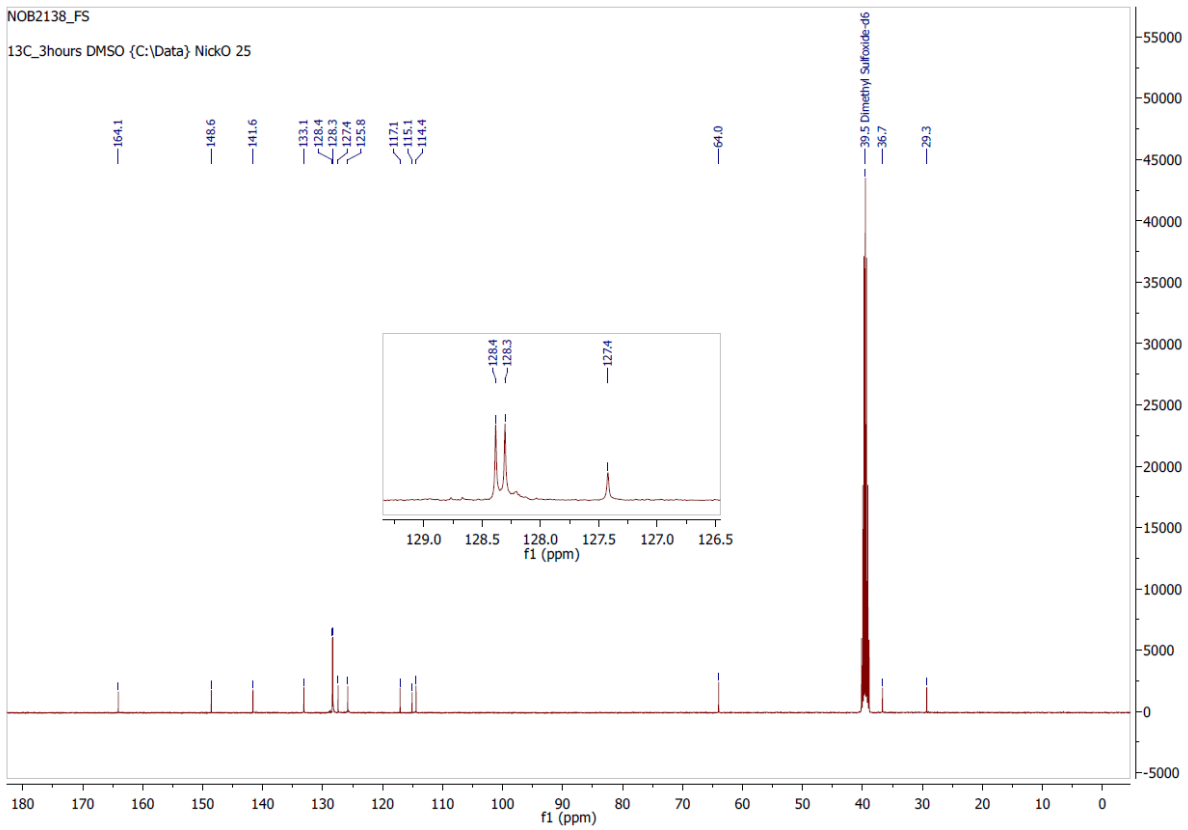
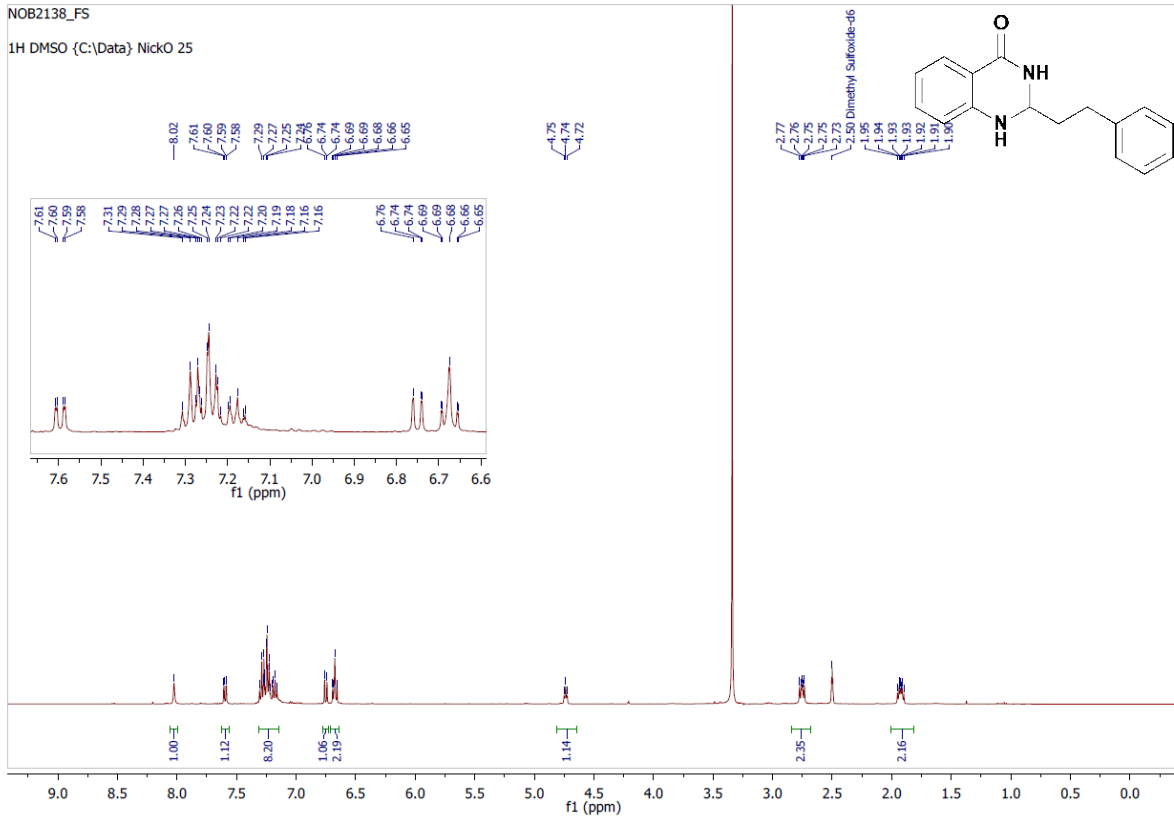


2-(3,4,5-Trihydroxyphenyl)-2,3-dihydroquinazolin-4(1H)-one (10t)

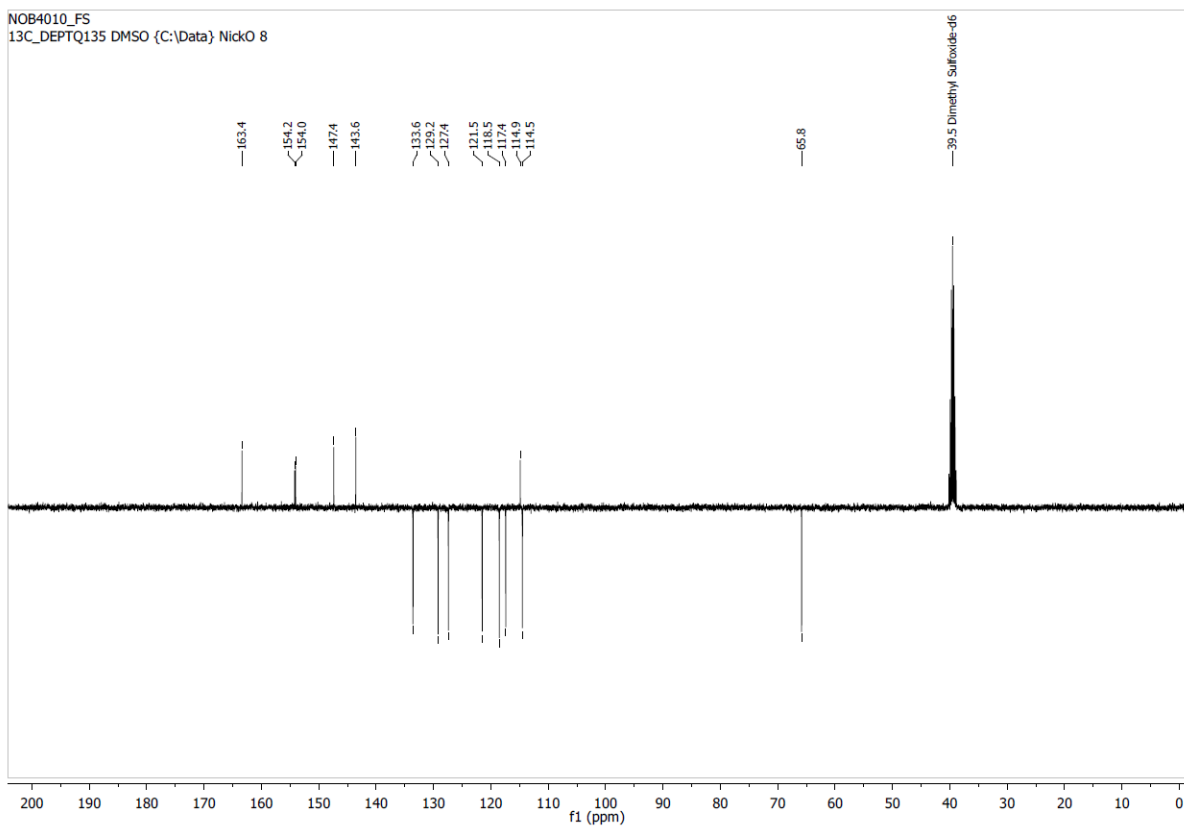
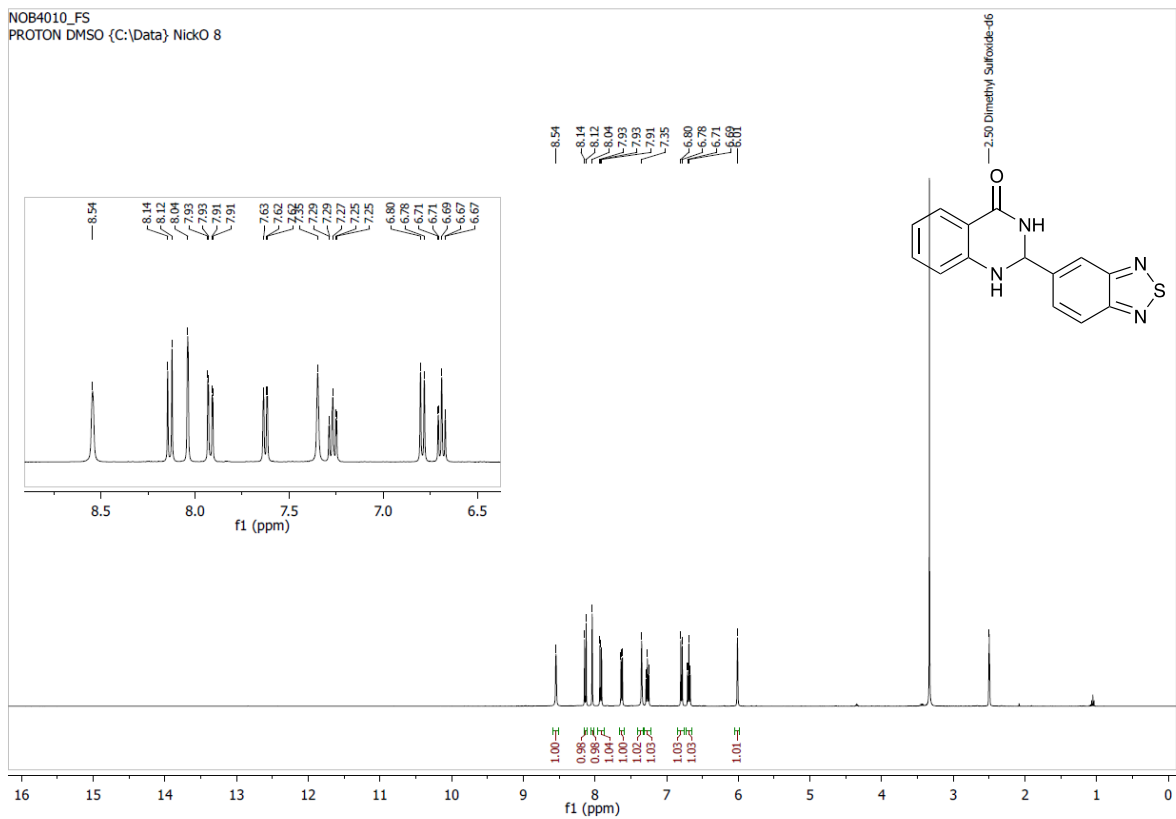


2-

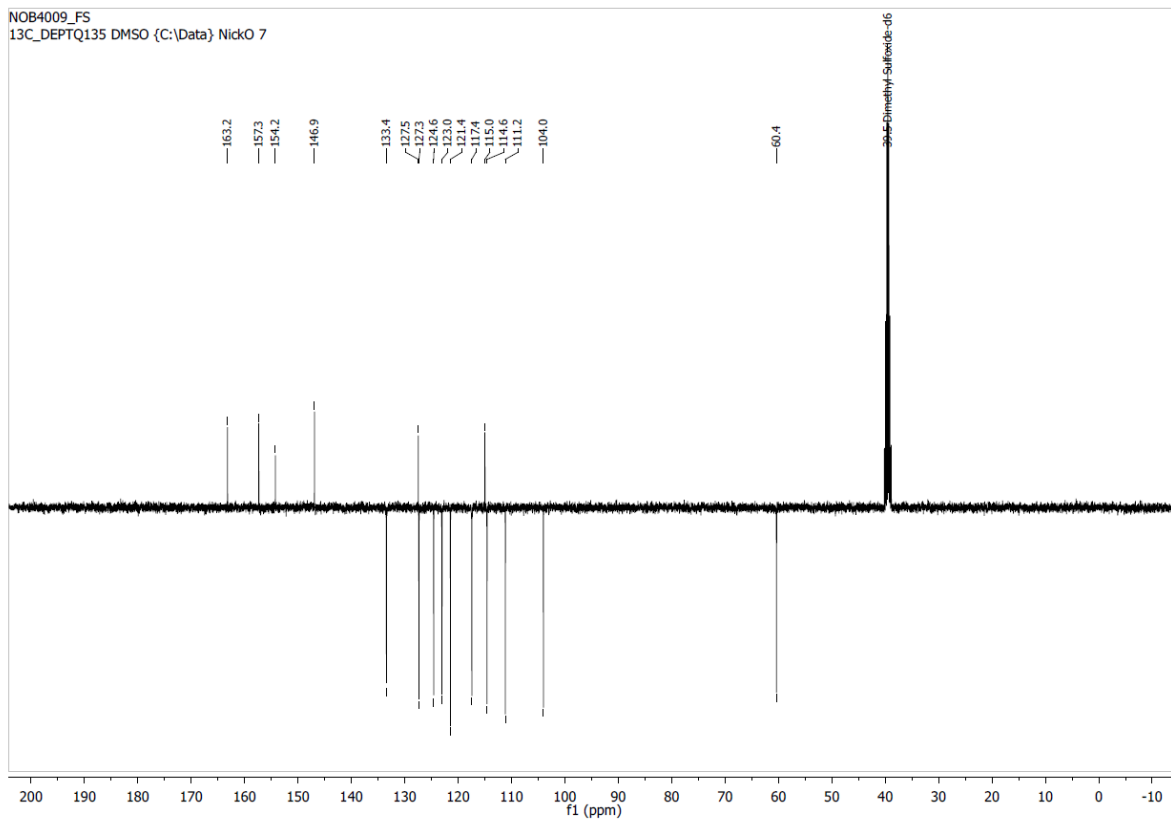
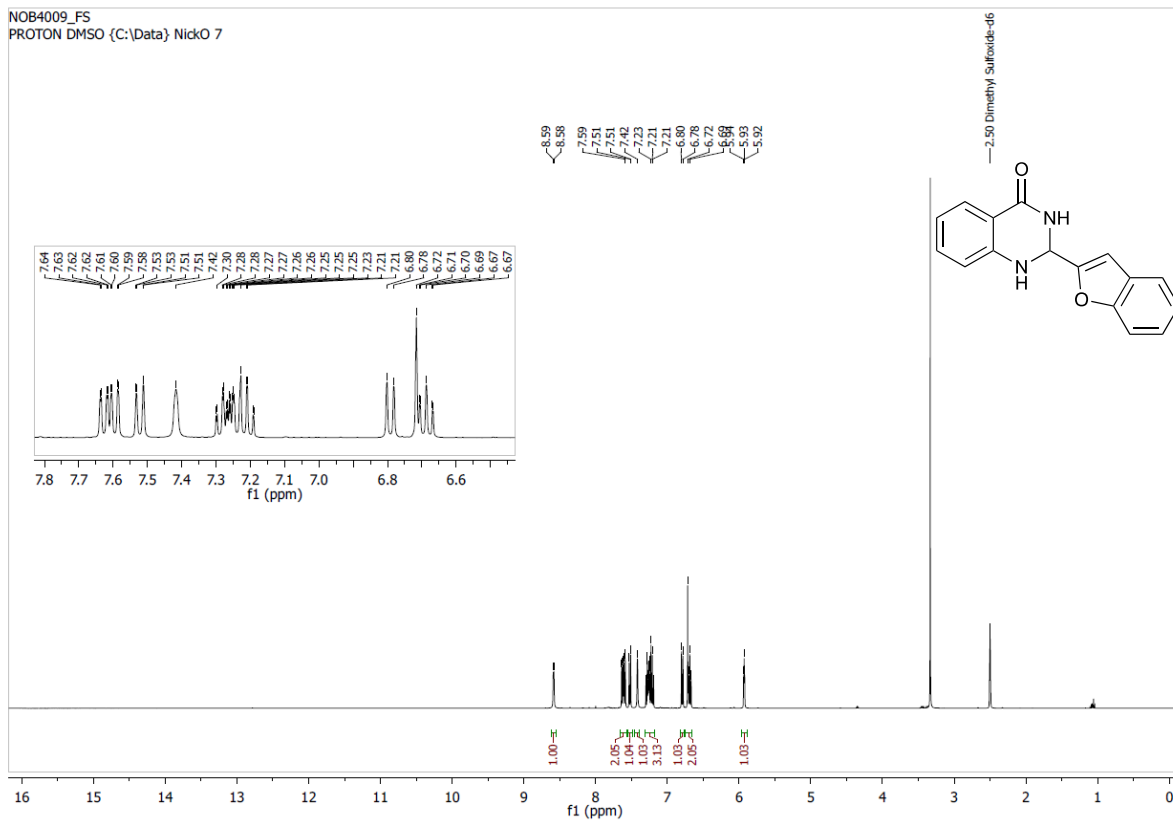
Phenethyl-2,3-dihydroquinazolin-4(1H)-one (10u)



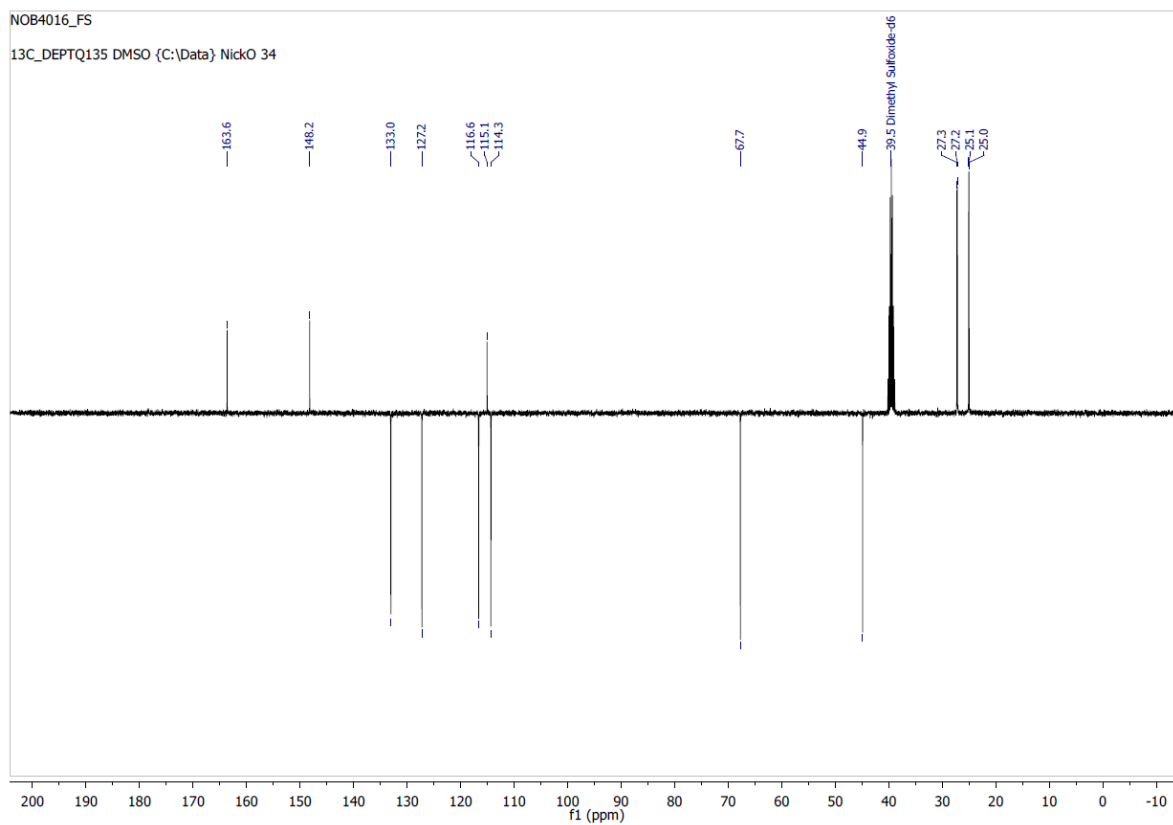
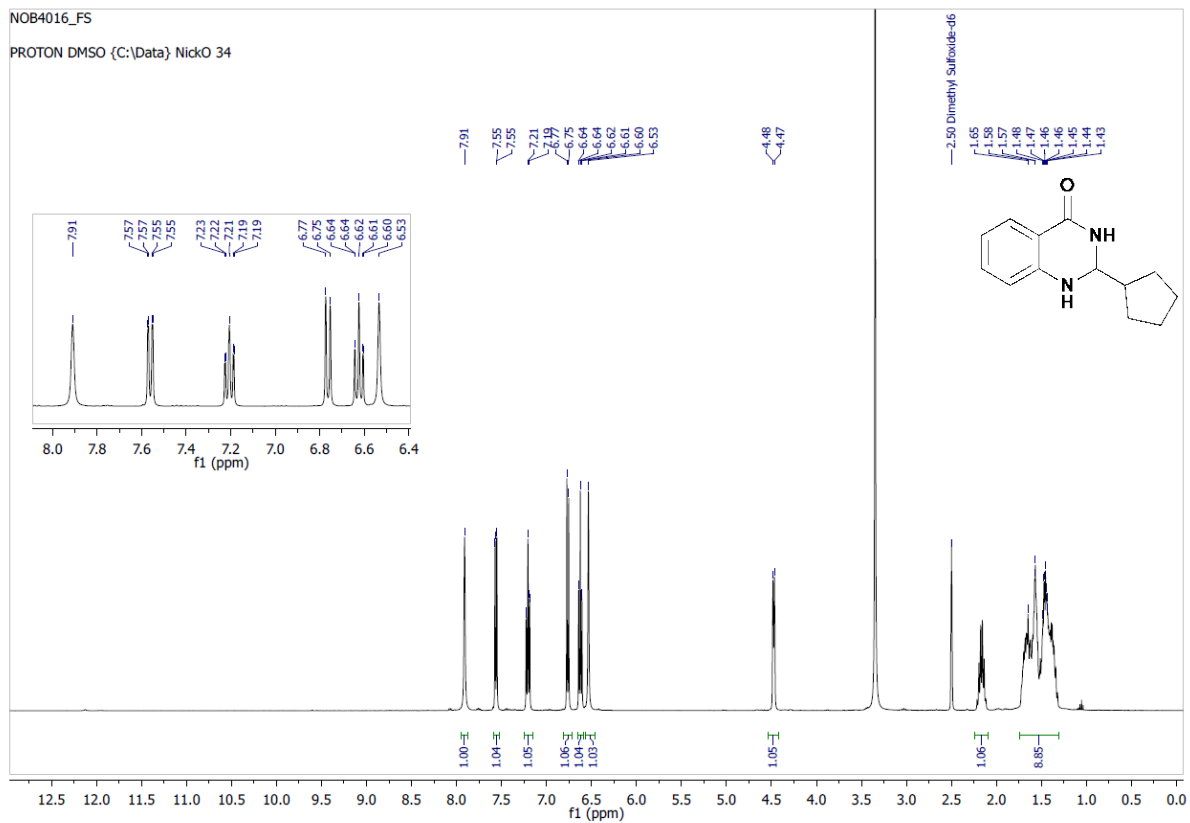
2-(Benzo[c][1,2,5]thiadiazol-5-yl)-2,3-dihydroquinazolin-4(1H)-one (10v)



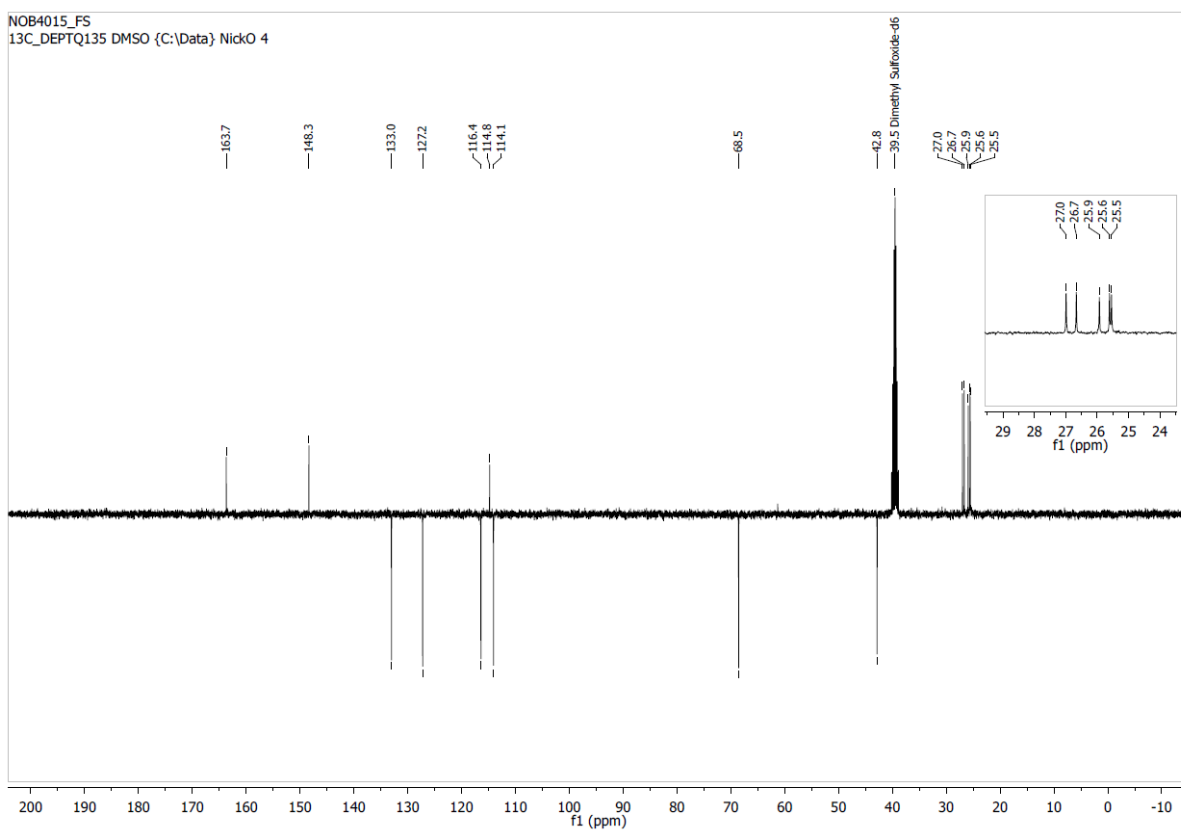
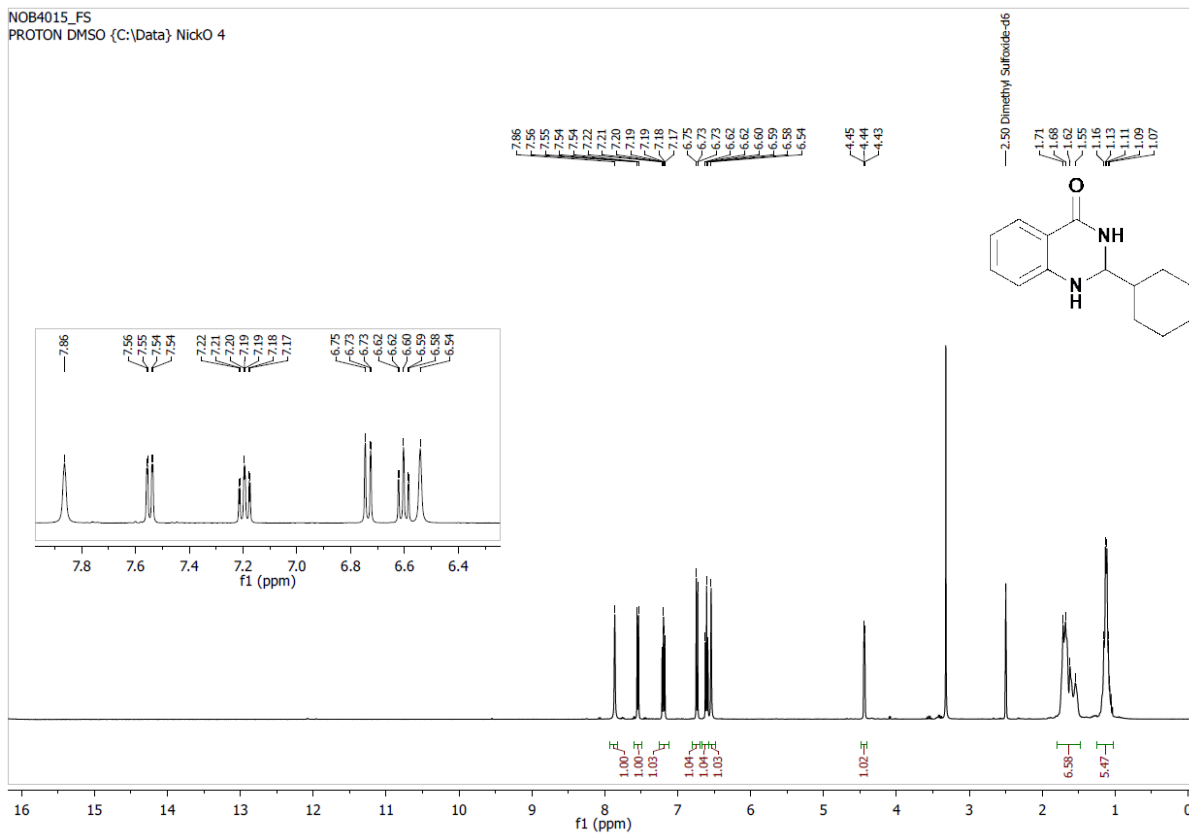
2-(Benzofuran-2-yl)-2,3-dihydroquinazolin-4(1H)-one (**10w**)



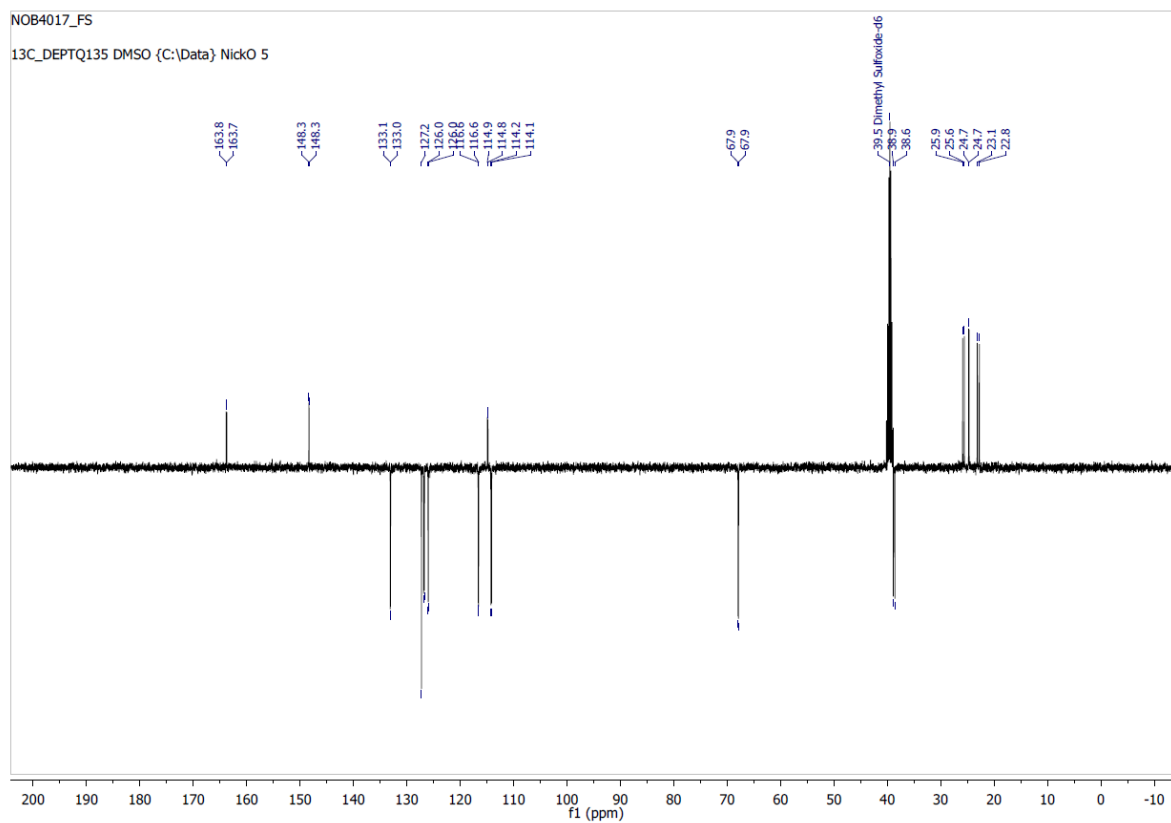
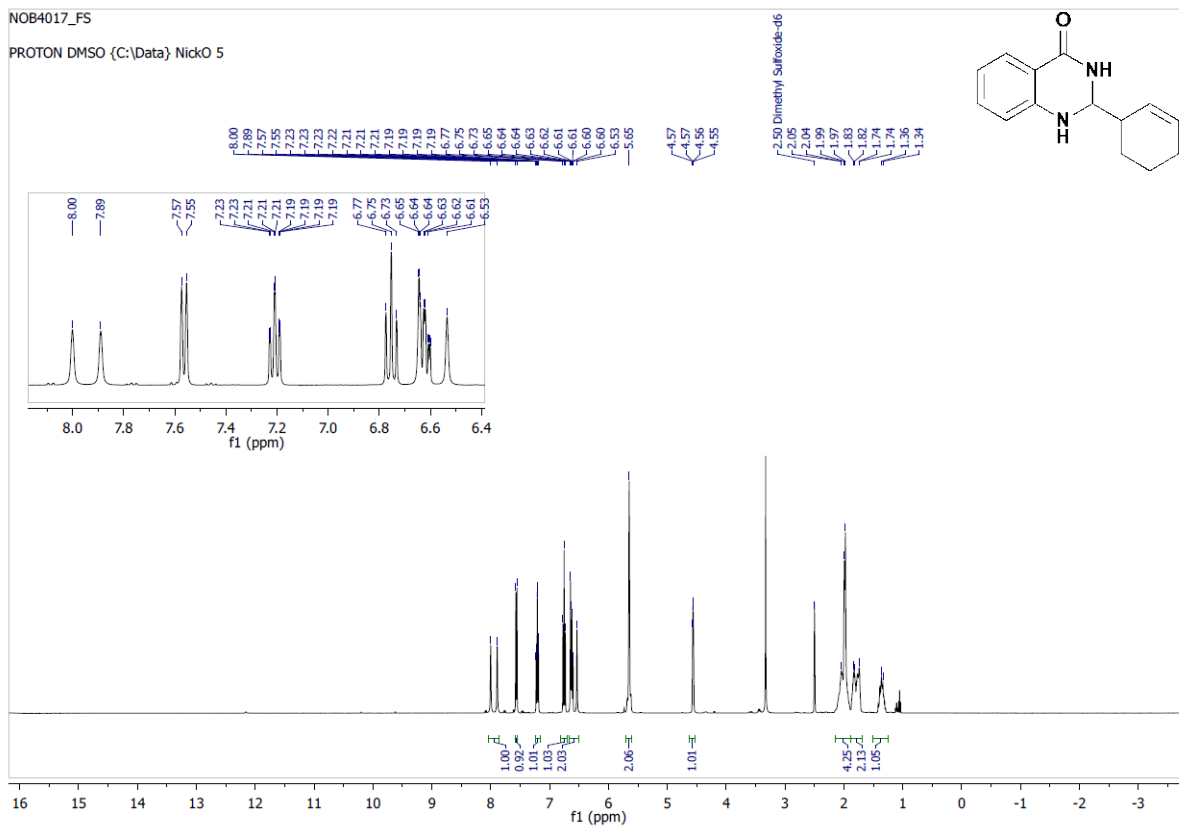
2-Cyclopentyl-2,3-dihydroquinazolin-4(1H)-one (10x) NOB4016



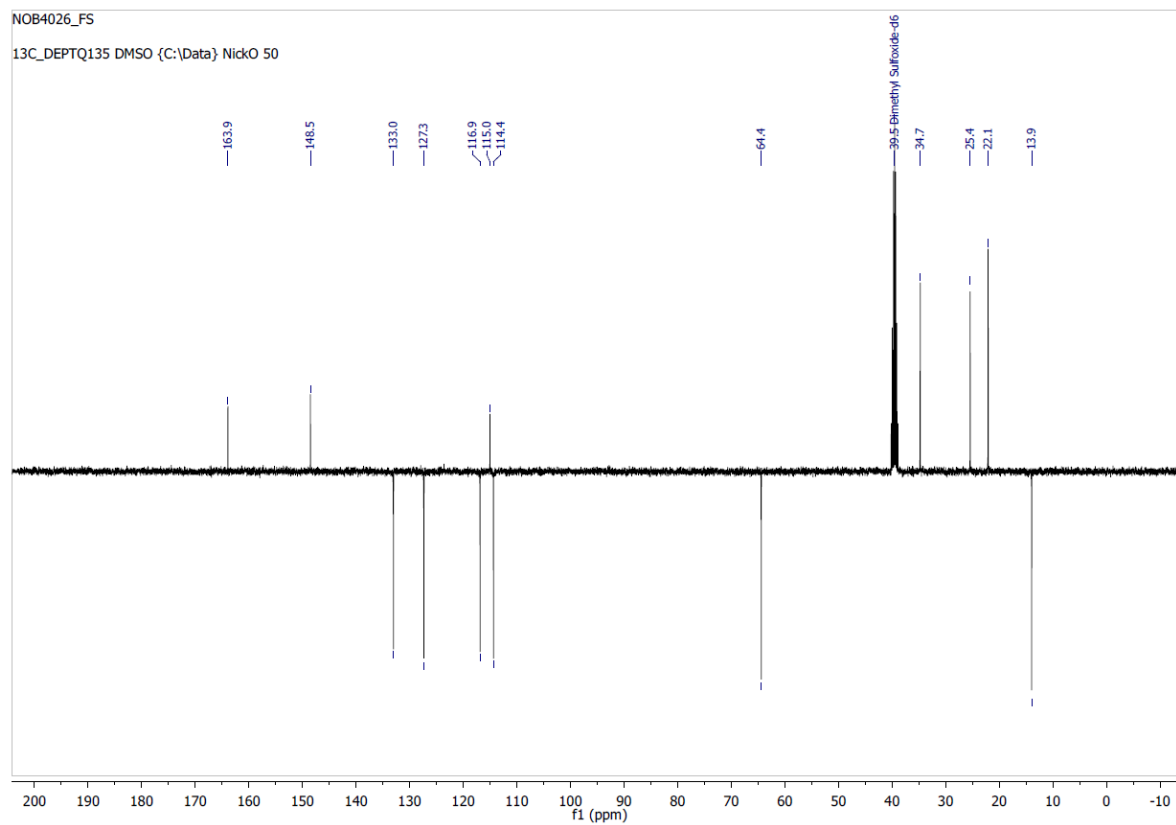
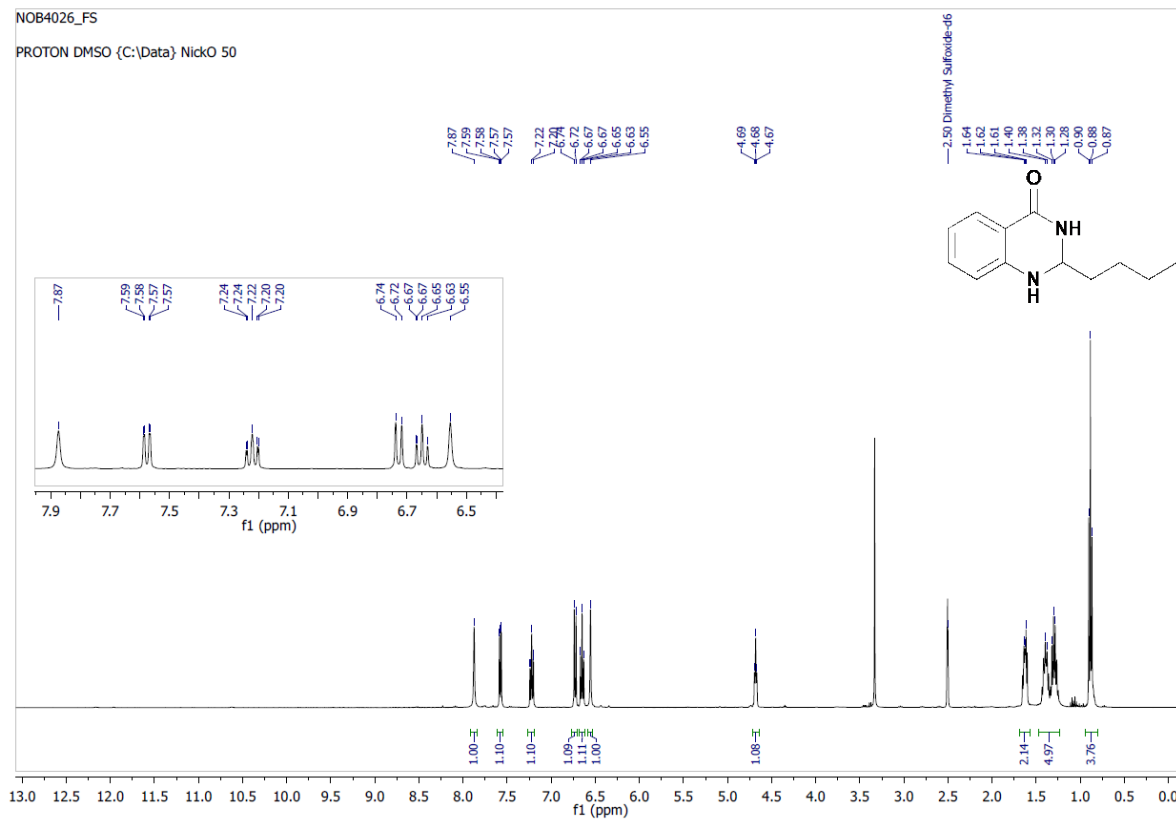
2-Cyclohexyl-2,3-dihydroquinazolin-4(1H)-one (10y)



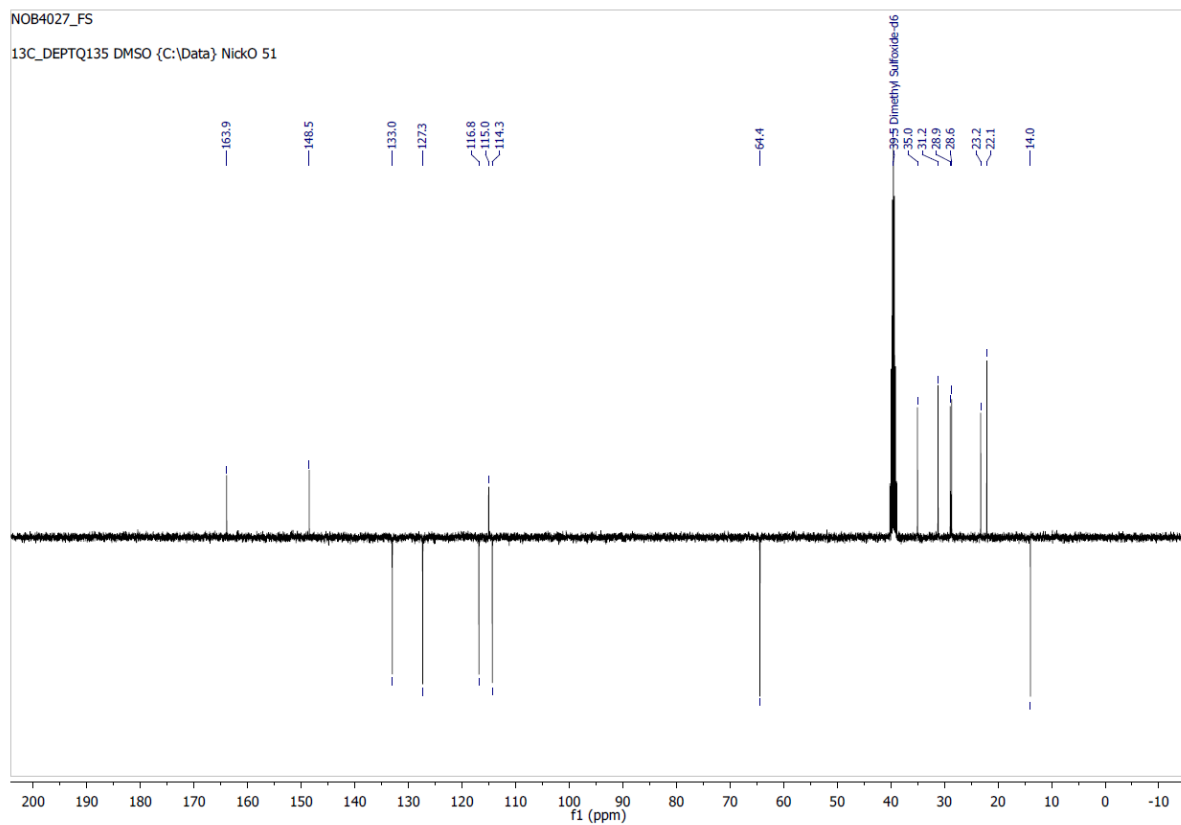
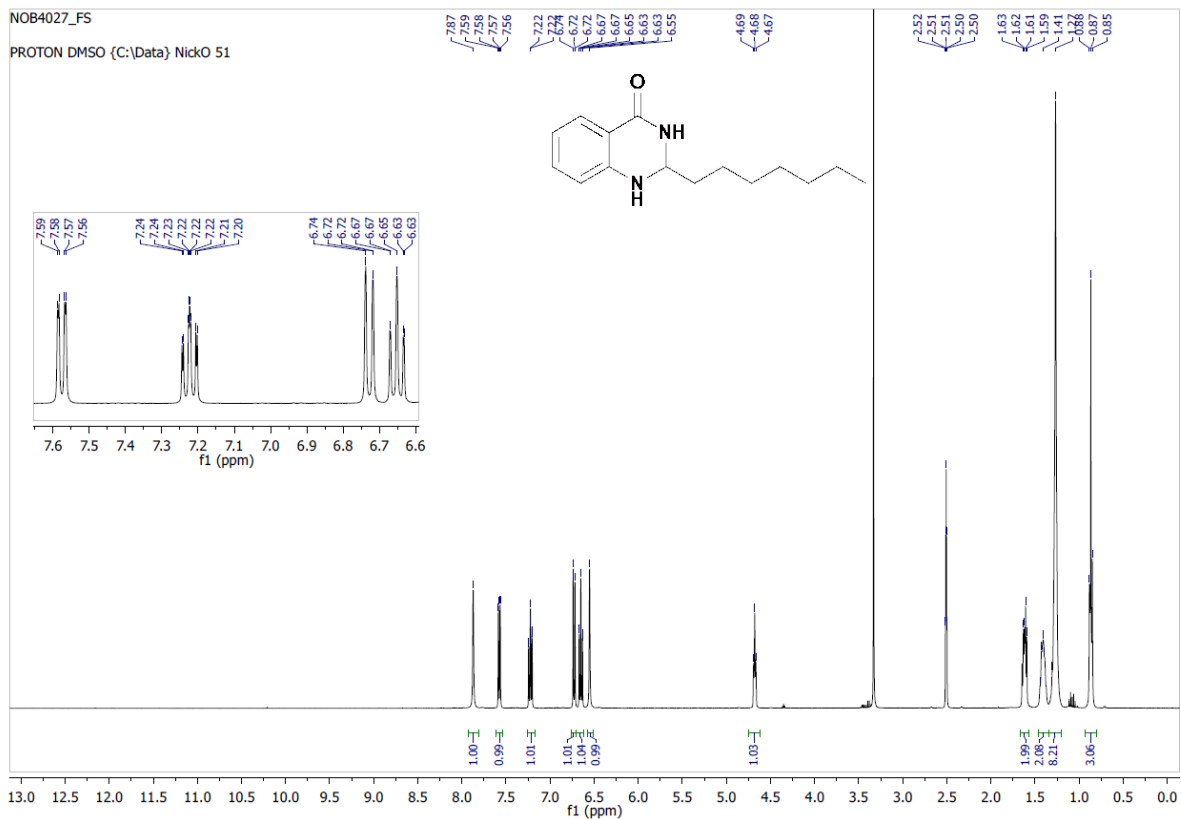
2-(Cyclohex-2-en-1-yl)-2,3-dihydroquinazolin-4(1H)-one (10z)



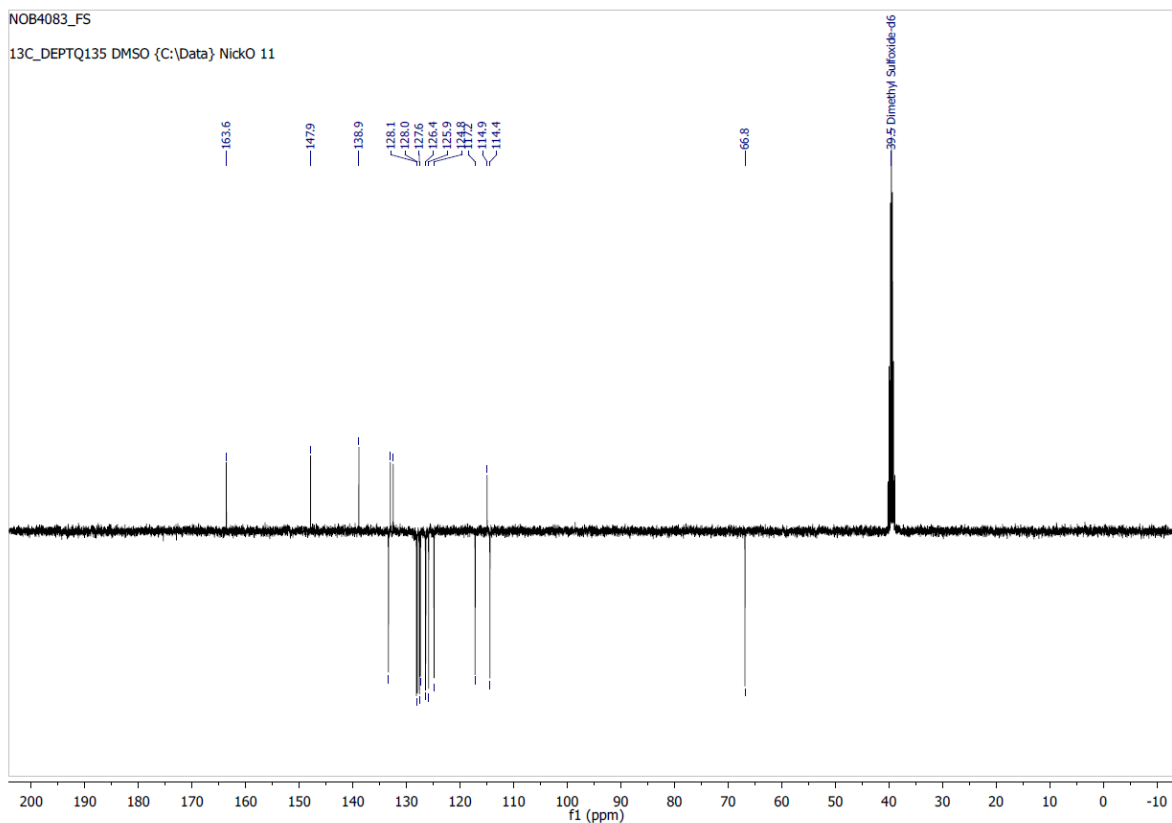
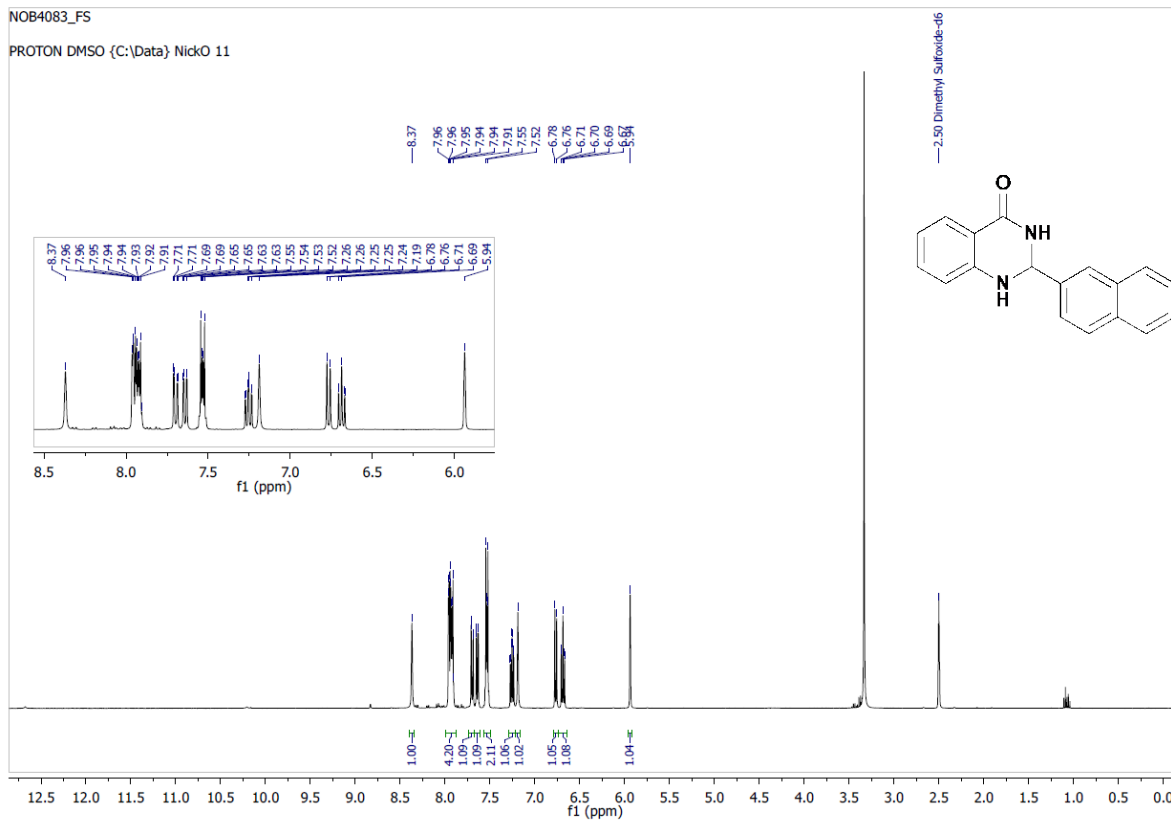
2-Butyl-2,3-dihydroquinazolin-4(1H)-one (10aa) NOB4026



2-Heptyl-2,3-dihydroquinazolin-4(1H)-one (10ab) NOB4027

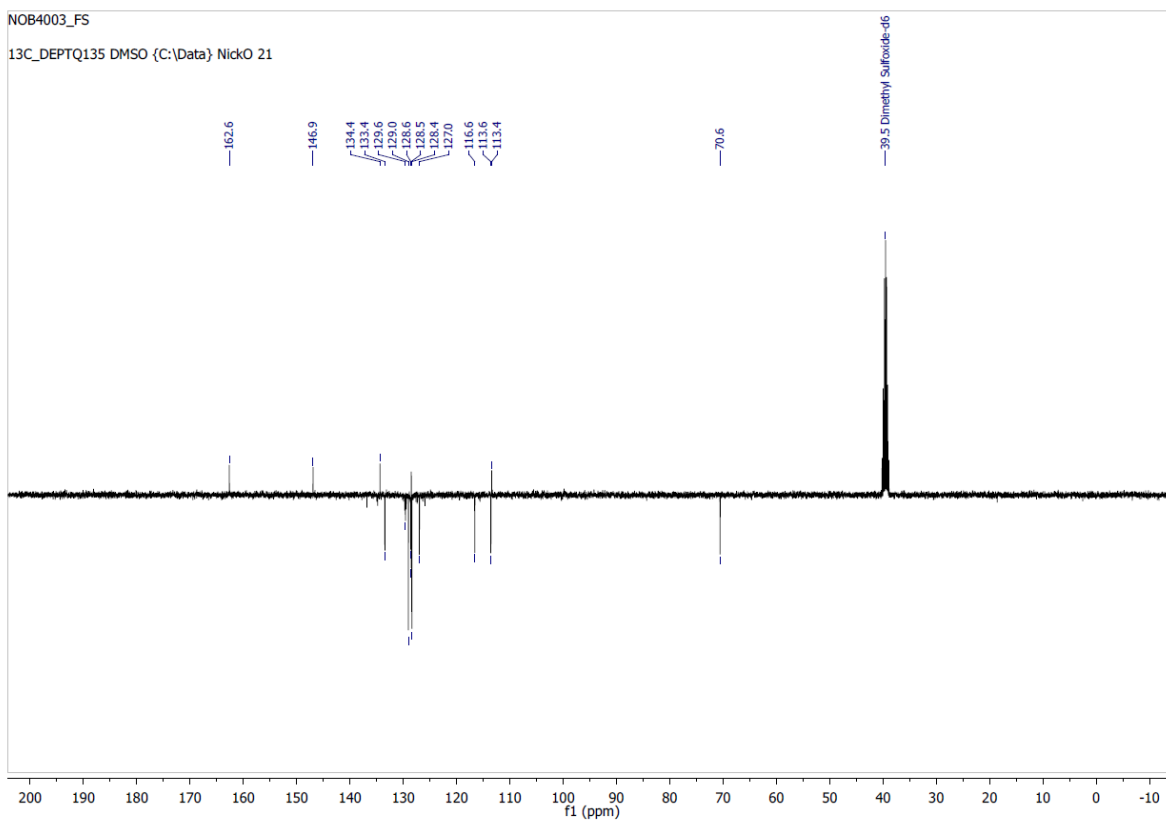
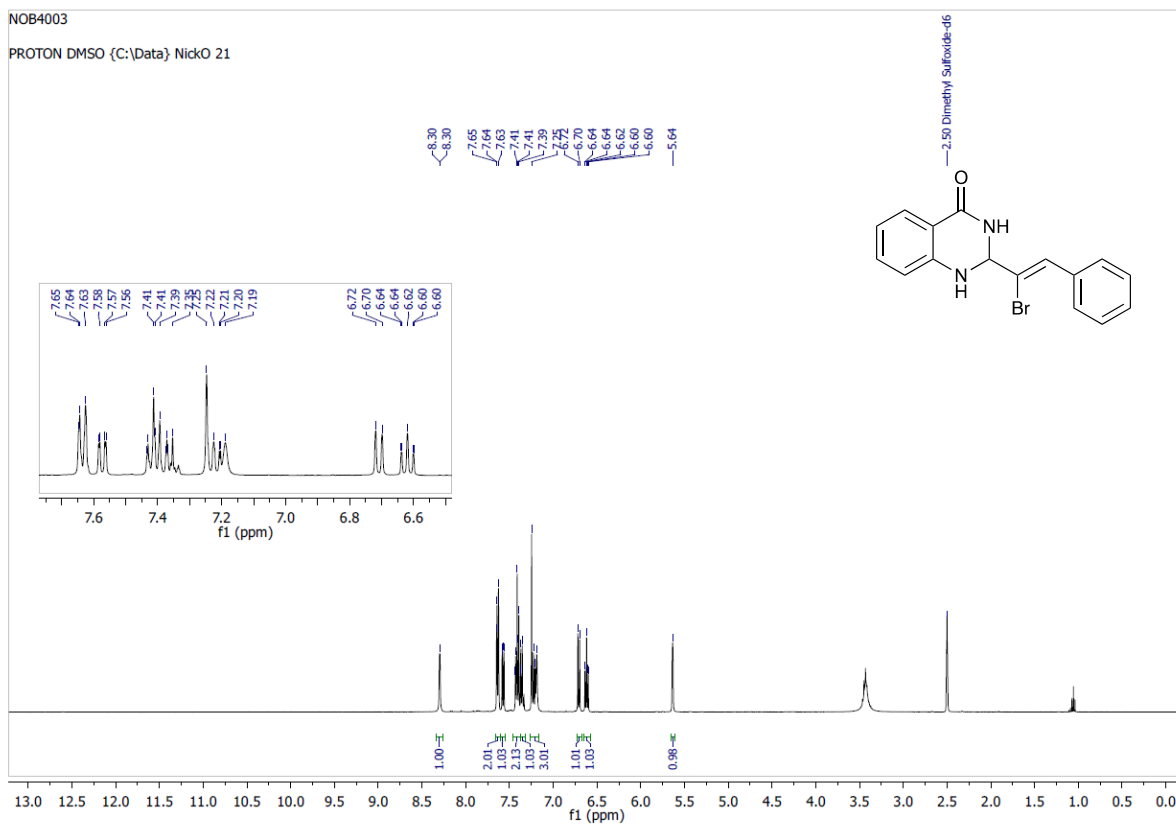


2-(Naphthalen-2-yl)-2,3-dihydroquinazolin-4(1H)-one (10ad)



(10ae) no reaction

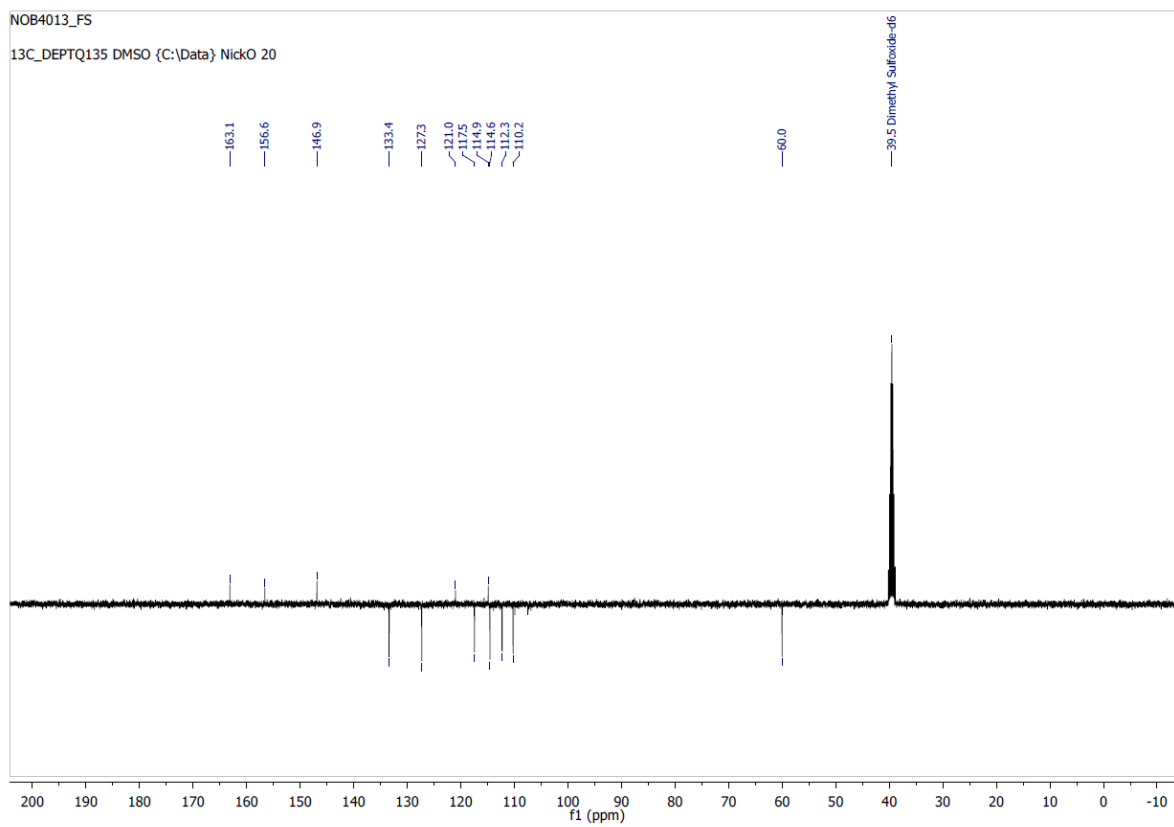
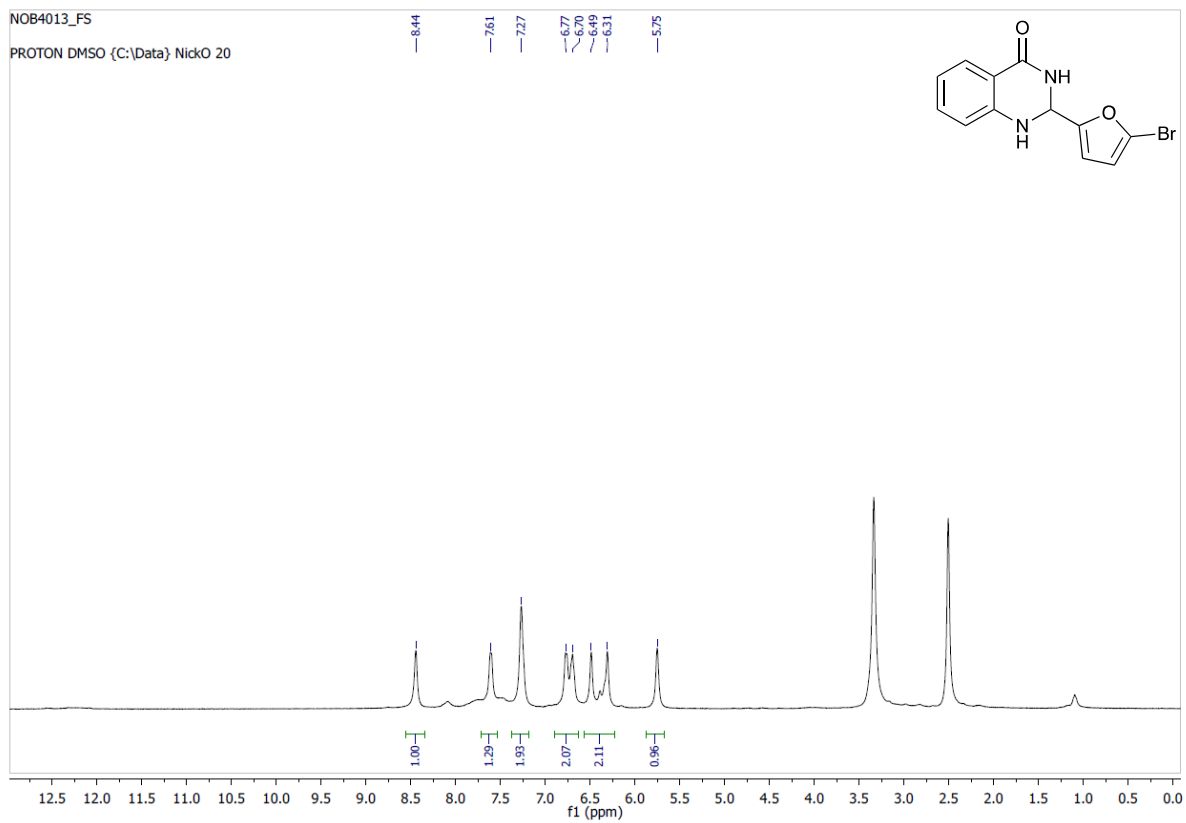
(Z)-2-(1-Bromo-2-phenylvinyl)-2,3-dihydroquinazolin-4(1H)-one (10af)



(10ag) no reaction

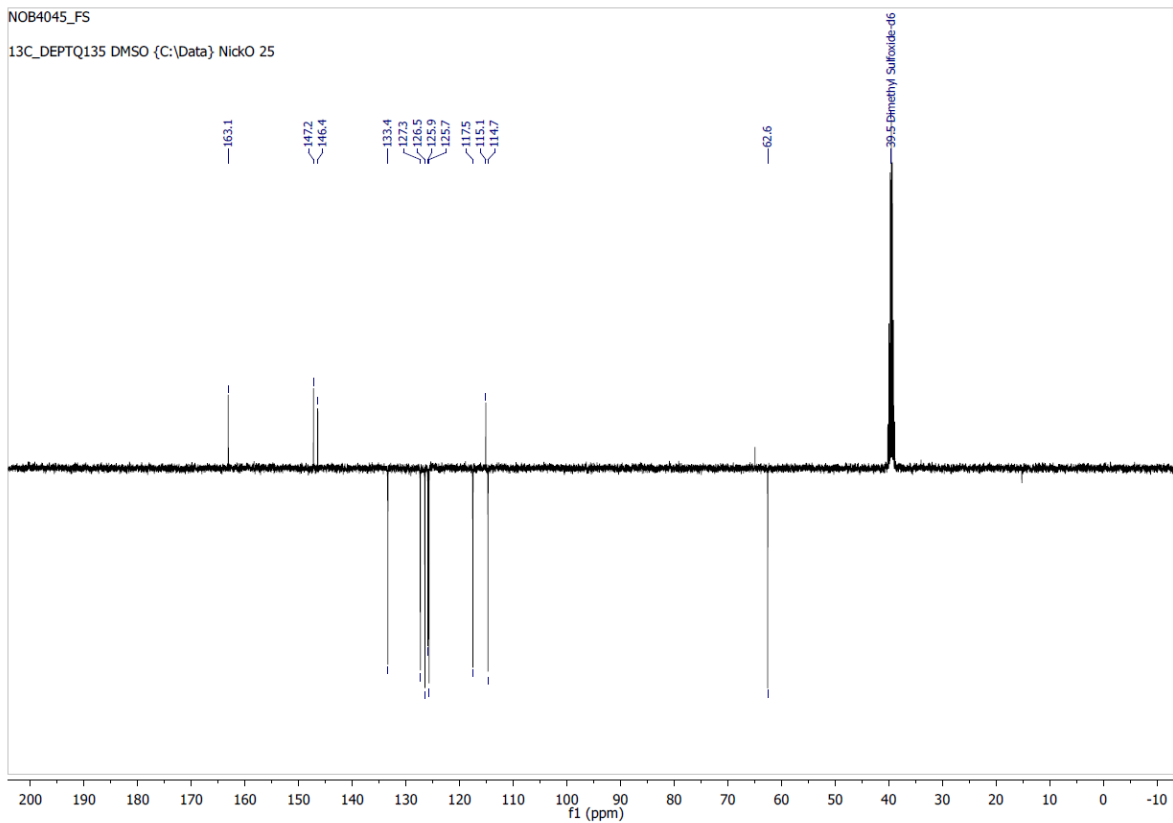
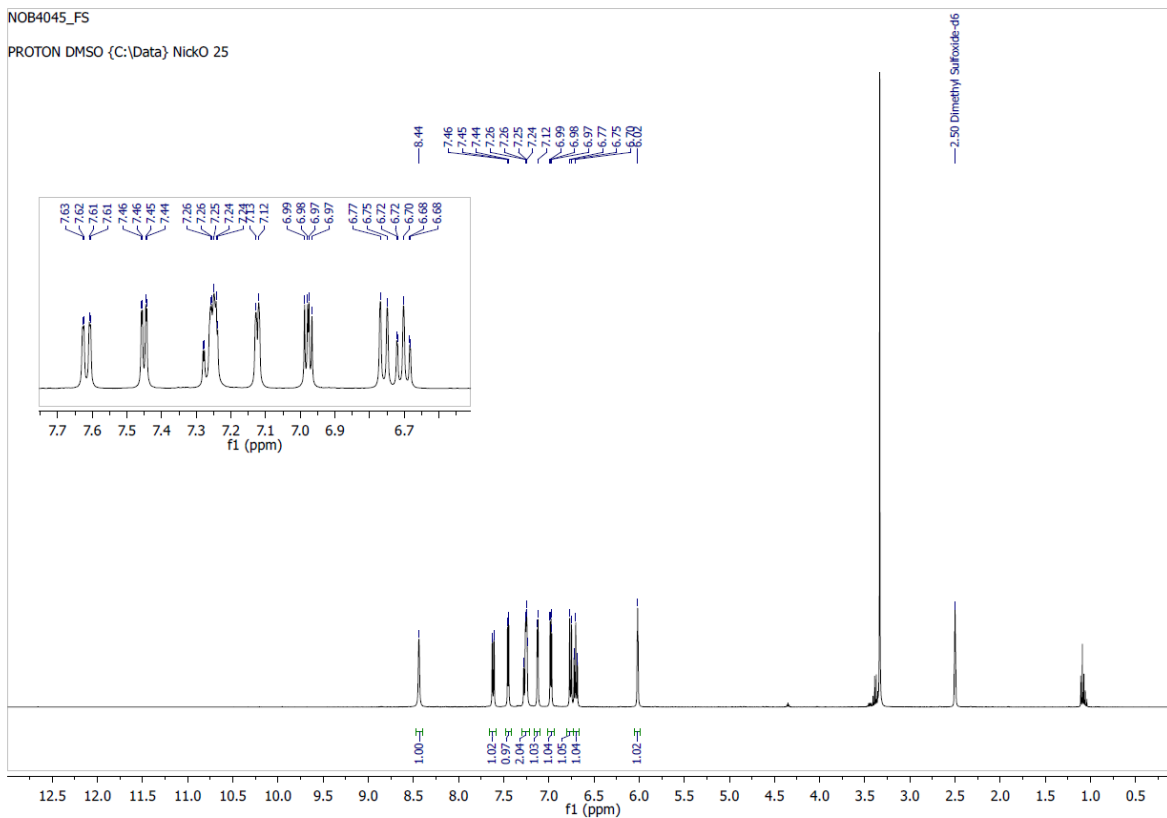
(10ah) no reaction

2-(5-Bromofuran-2-yl)-2,3-dihydroquinazolin-4(1H)-one (10ai)

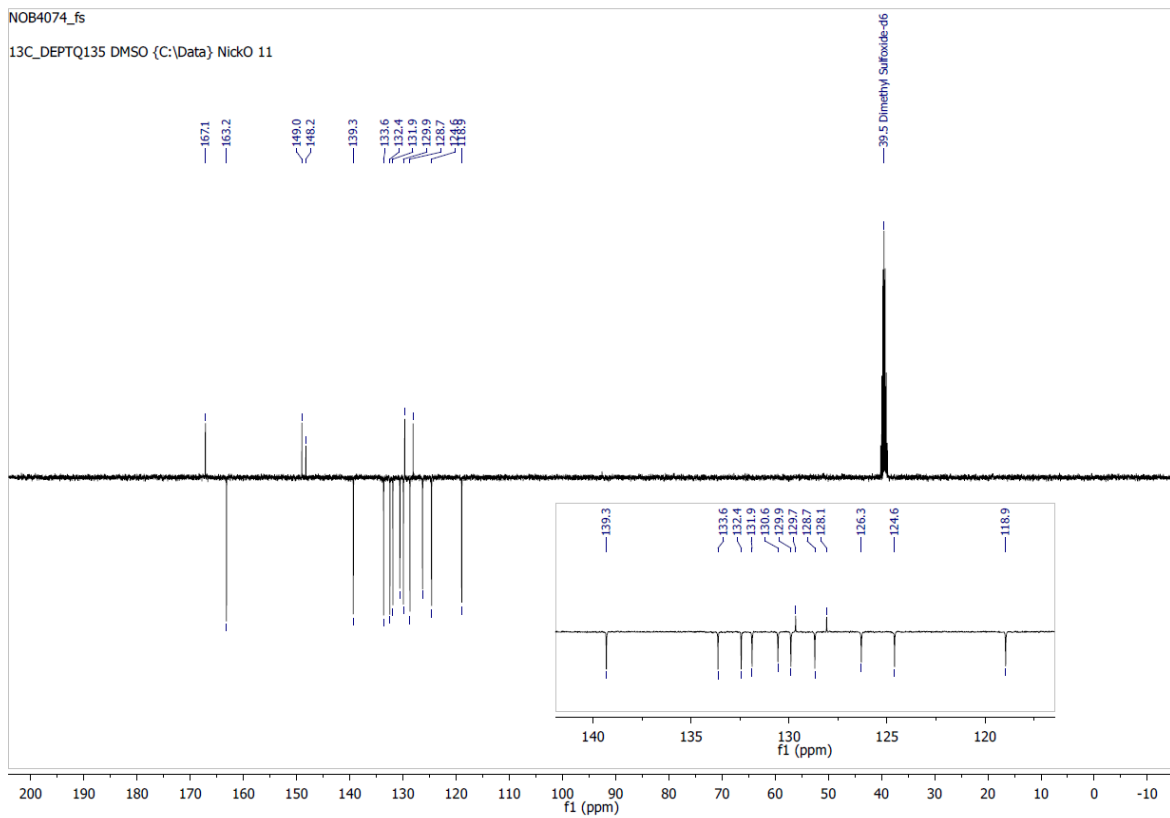
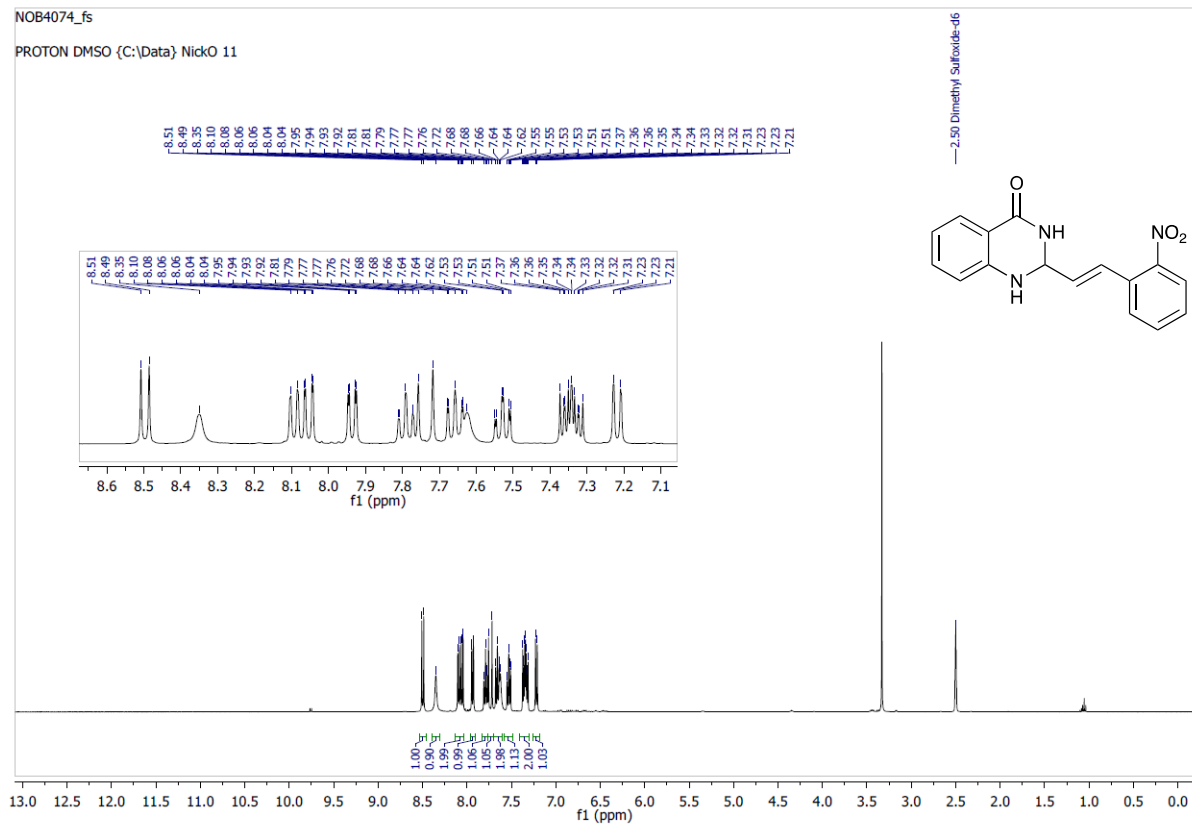


(10a) no reaction

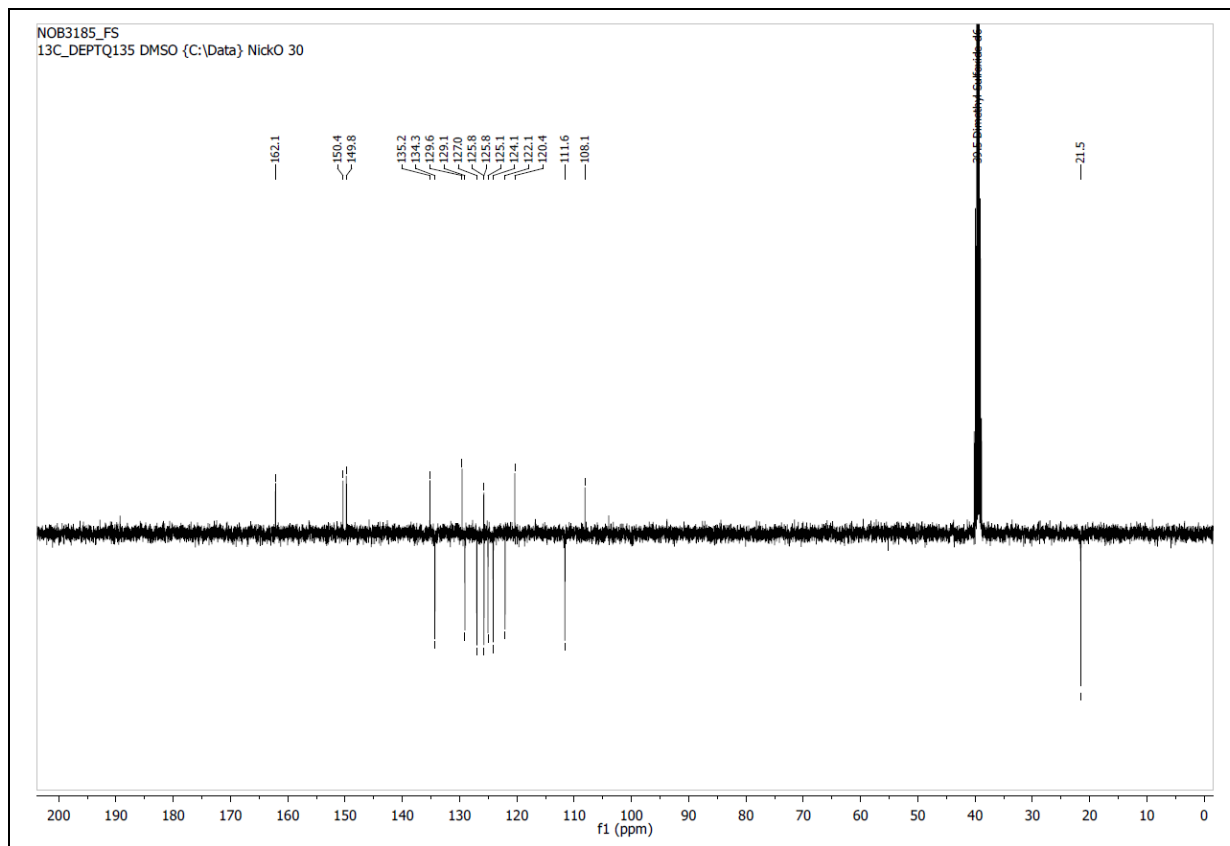
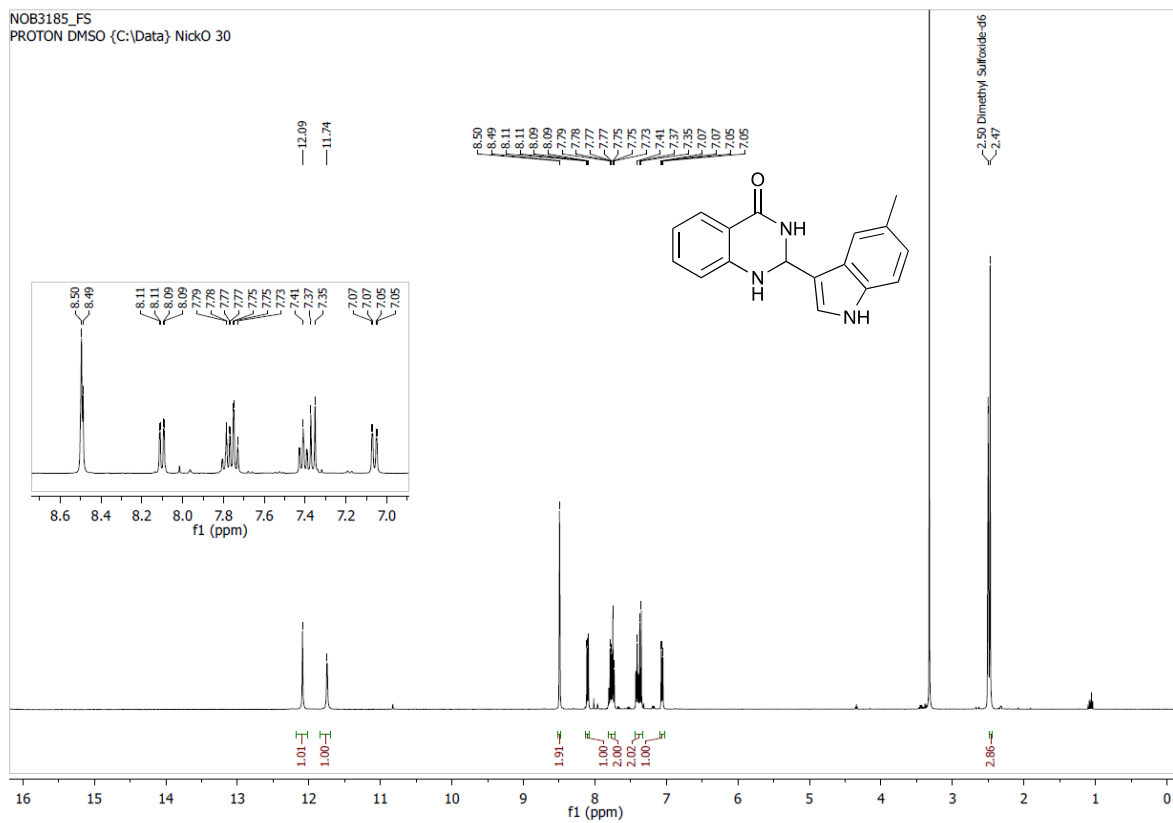
2-(Thiophen-2-yl)-2,3-dihydroquinazolin-4(1H)-one (10a)



(E)-2-(2-Nitrostyryl)-2,3-dihydroquinazolin-4(1H)-one (10aI)



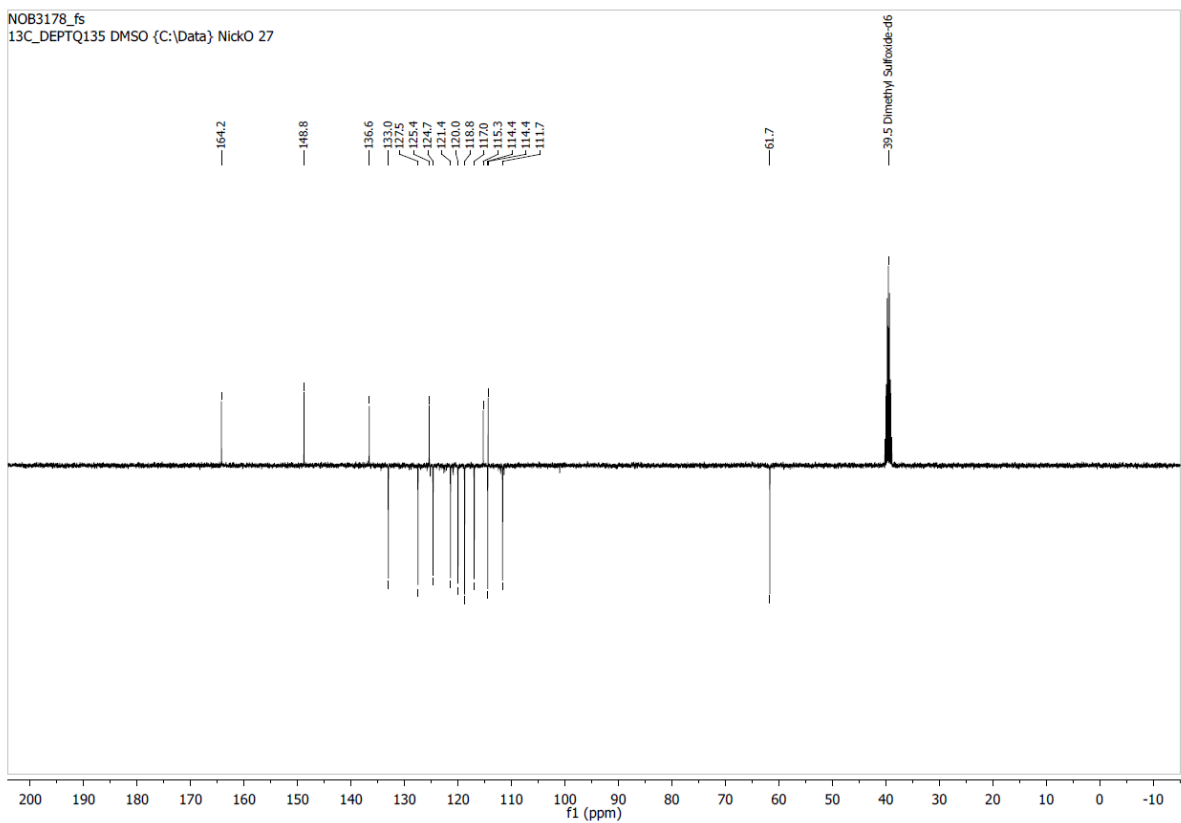
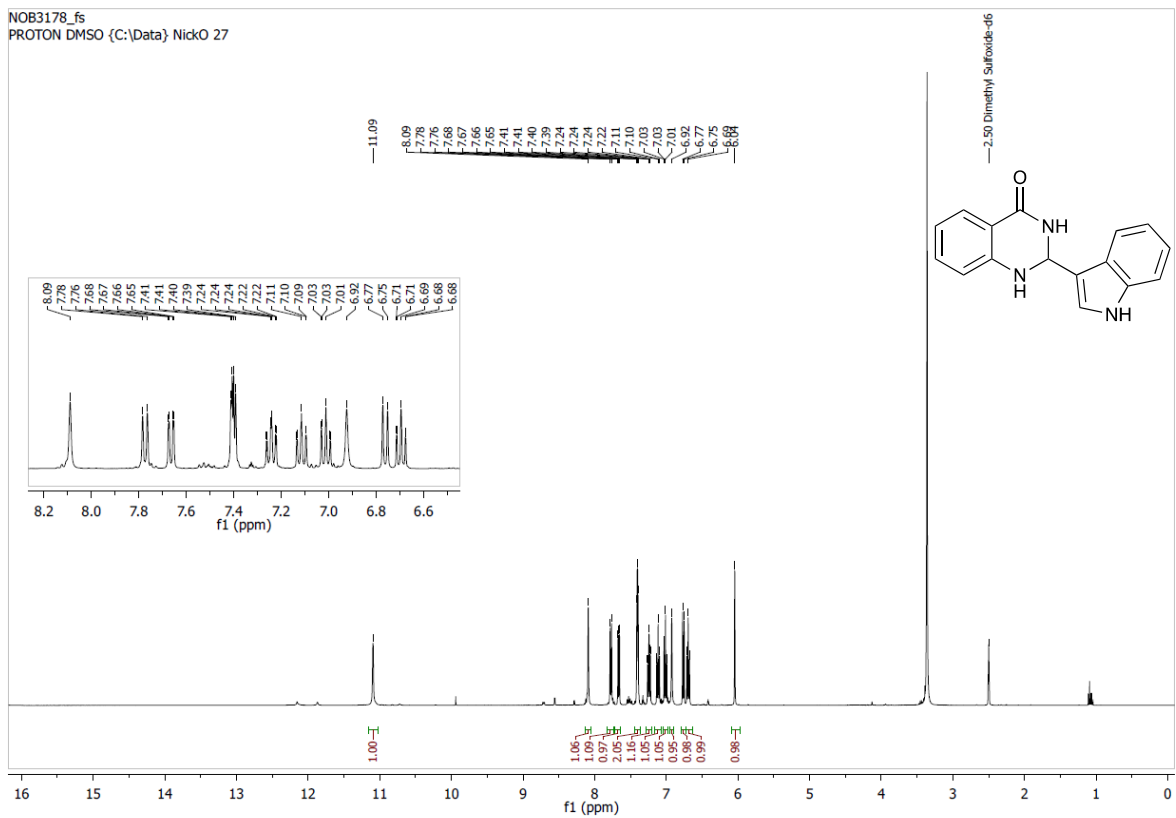
2-(5-Methyl-1H-indol-3-yl)-2,3-dihydroquinazolin-4(1H)-one (10an) NOB3185



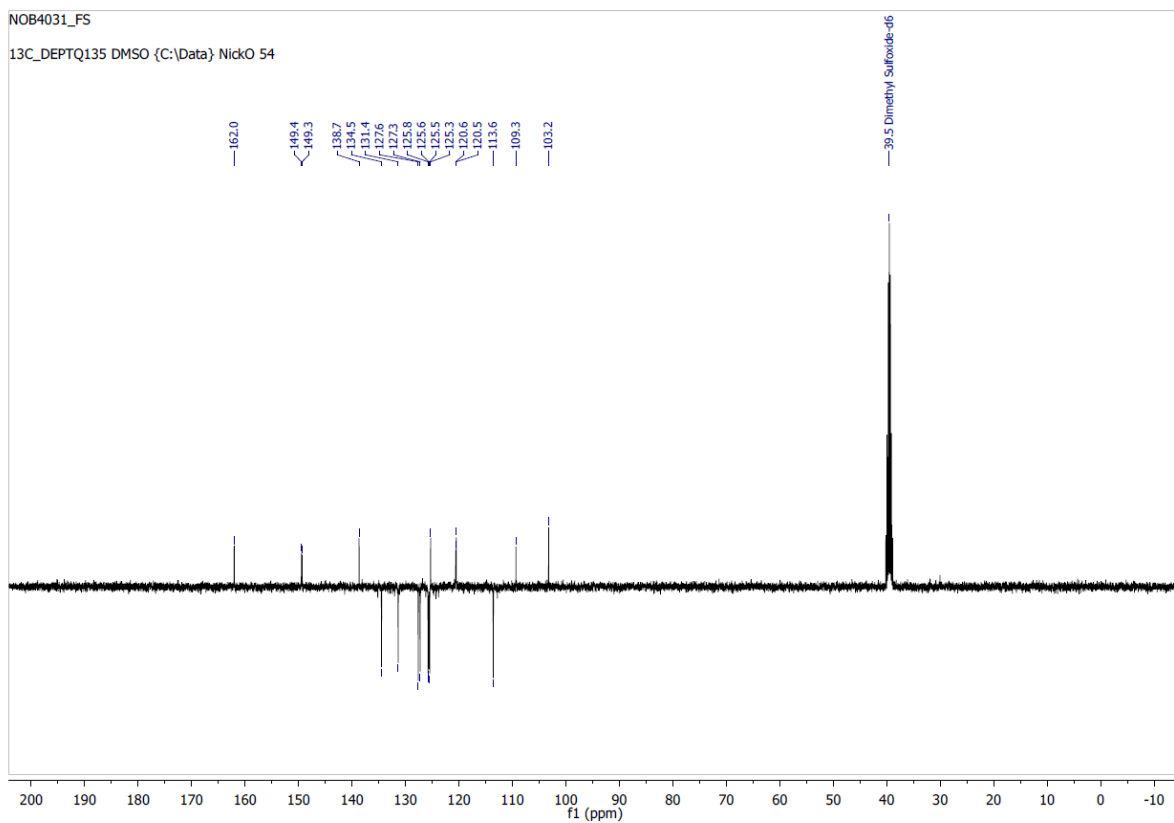
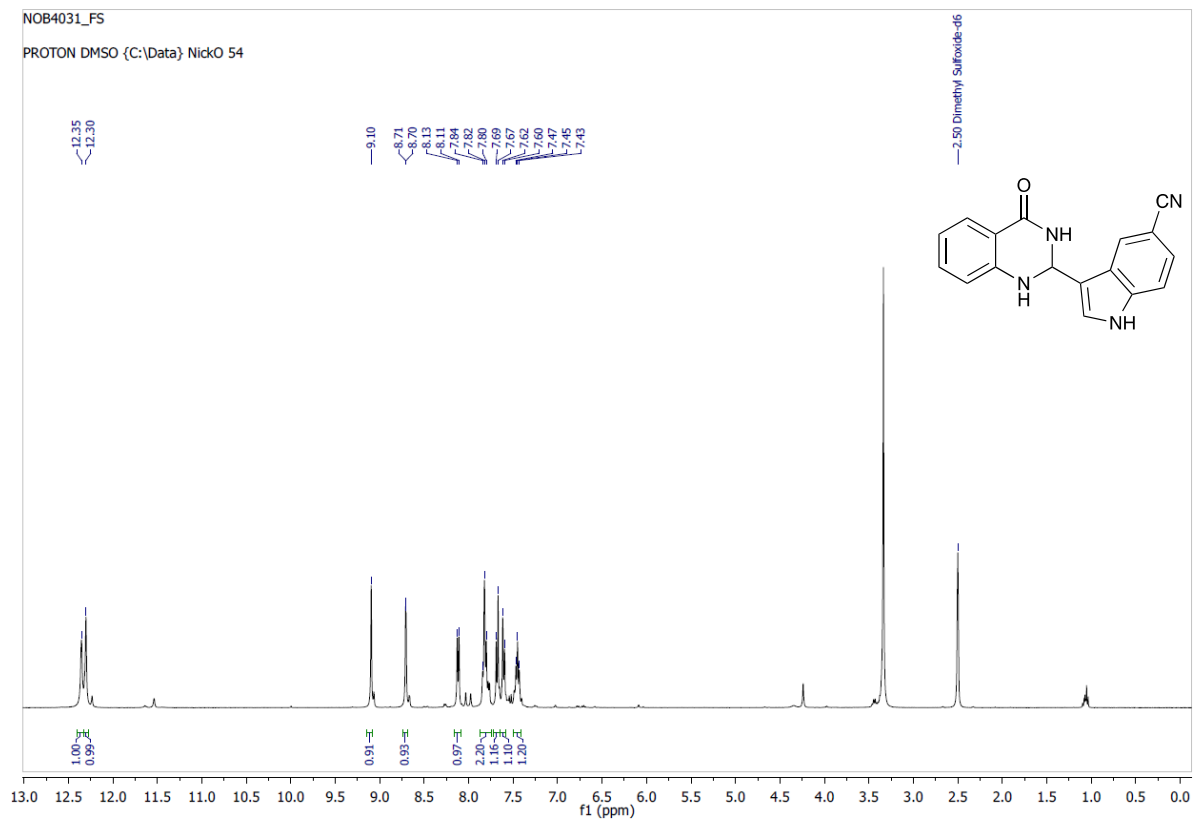
(10ao) no reaction

(10ps) no reaction

2-(1H-Indol-3-yl)-2,3-dihydroquinazolin-4(1H)-one (10aq)

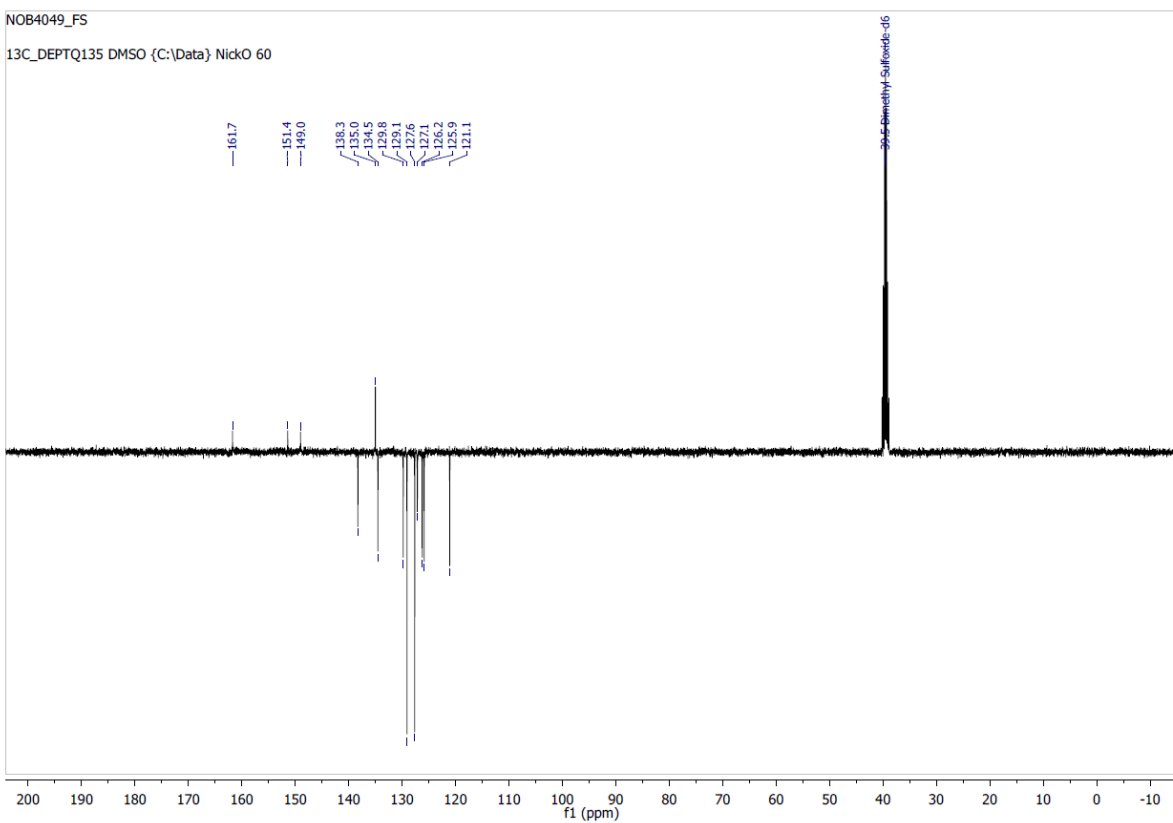
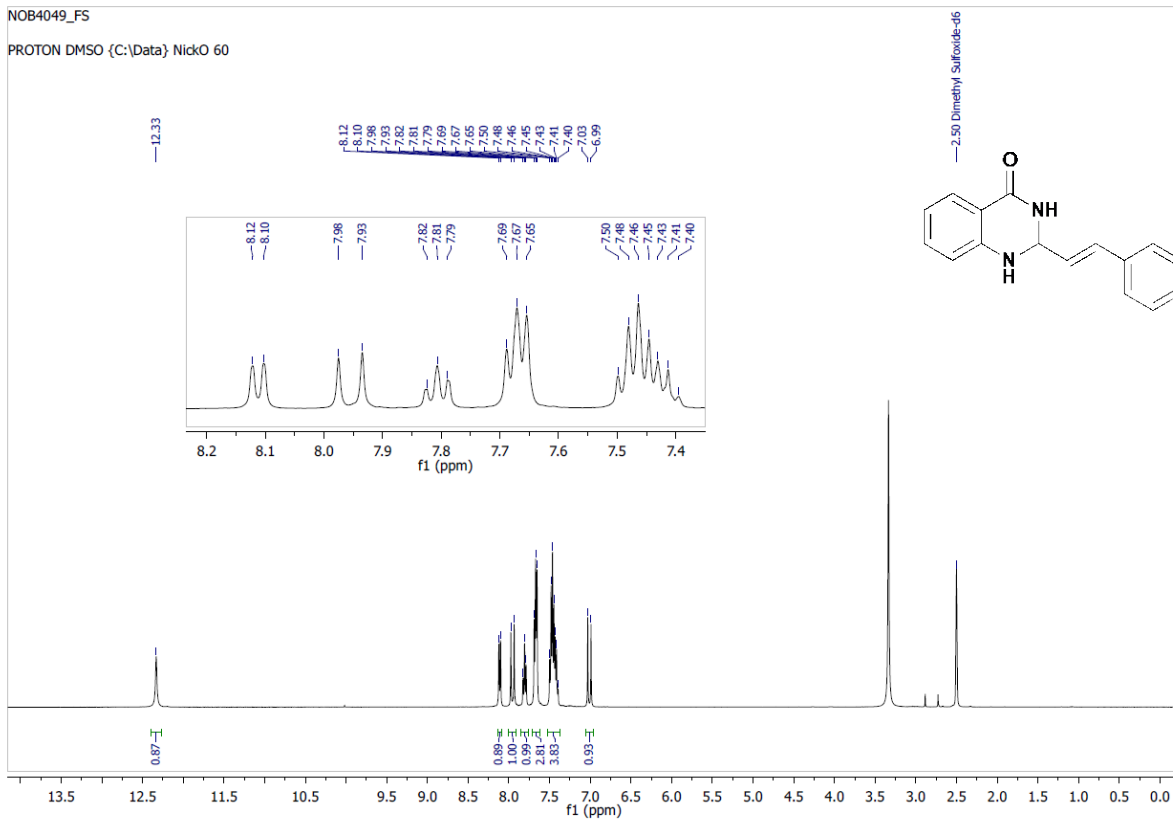


3-(4-Oxo-1,2,3,4-tetrahydroquinazolin-2-yl)-1H-indole-5-carbonitrile (**10ar**)

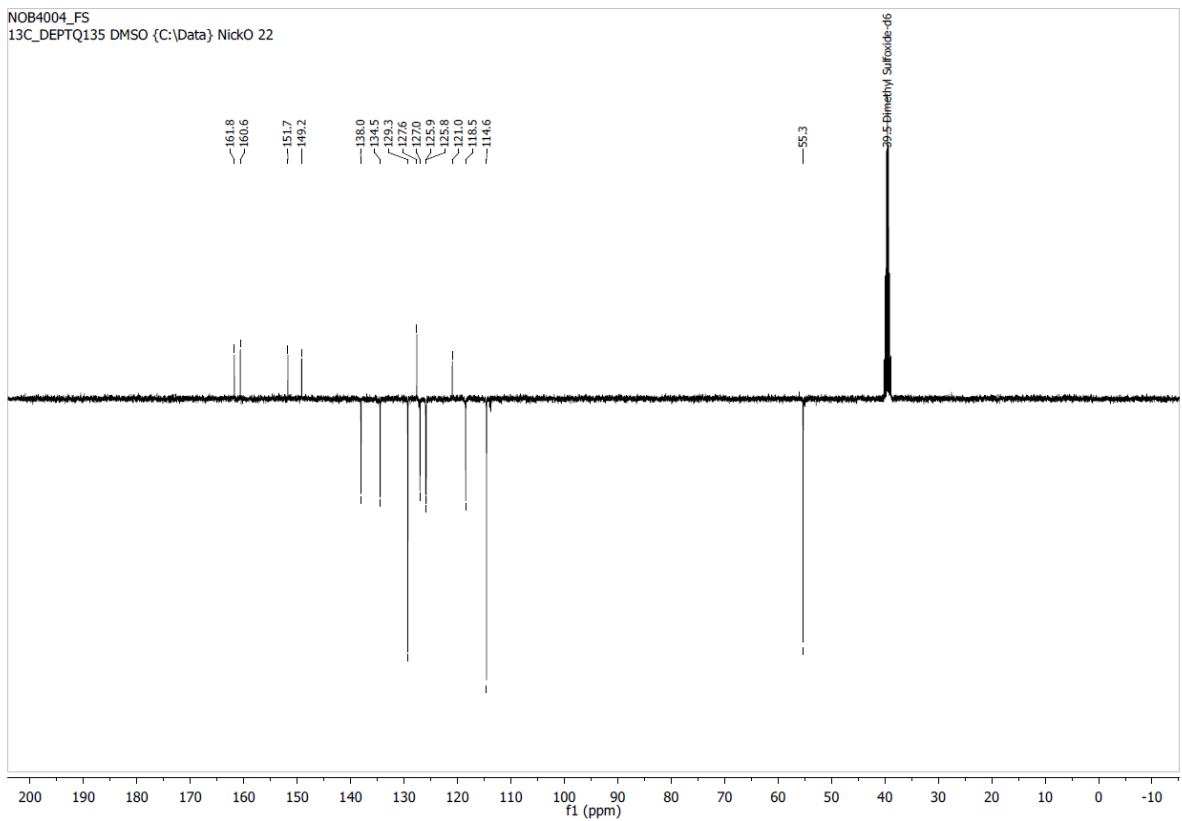
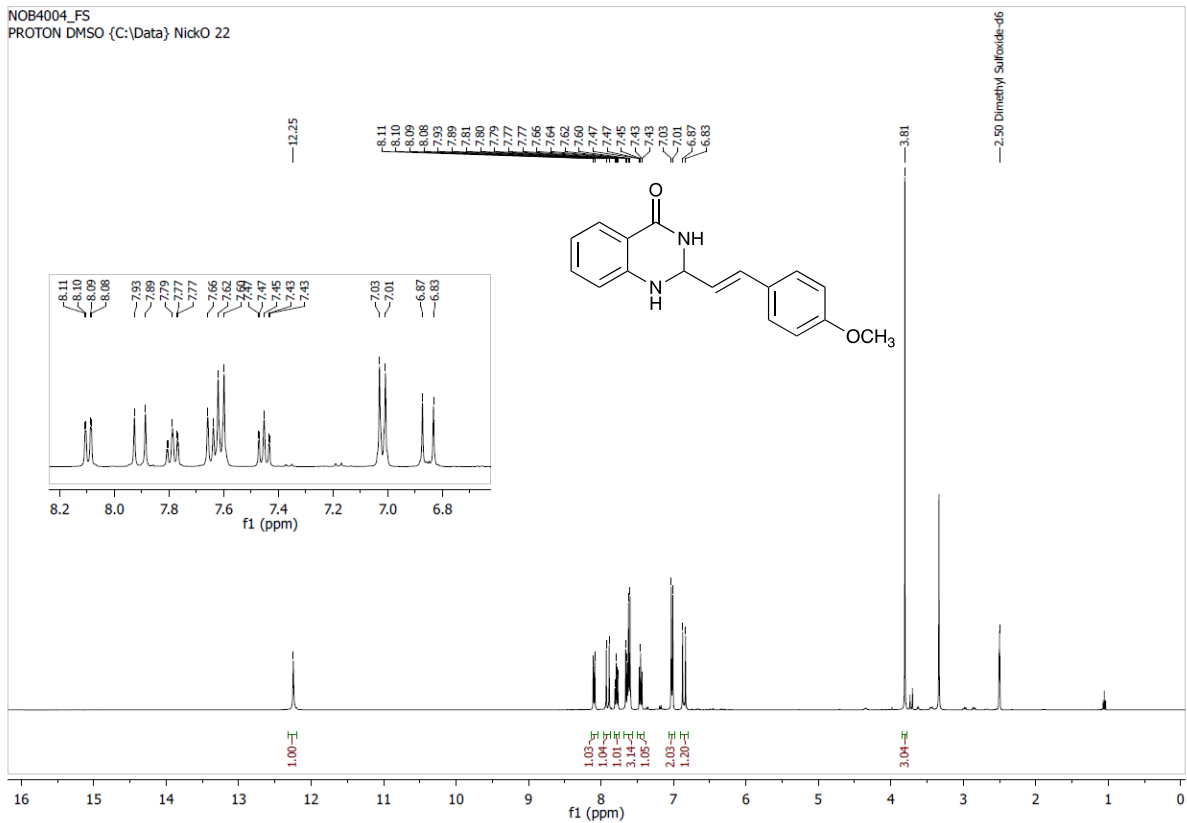


(**10as**) no reaction observed

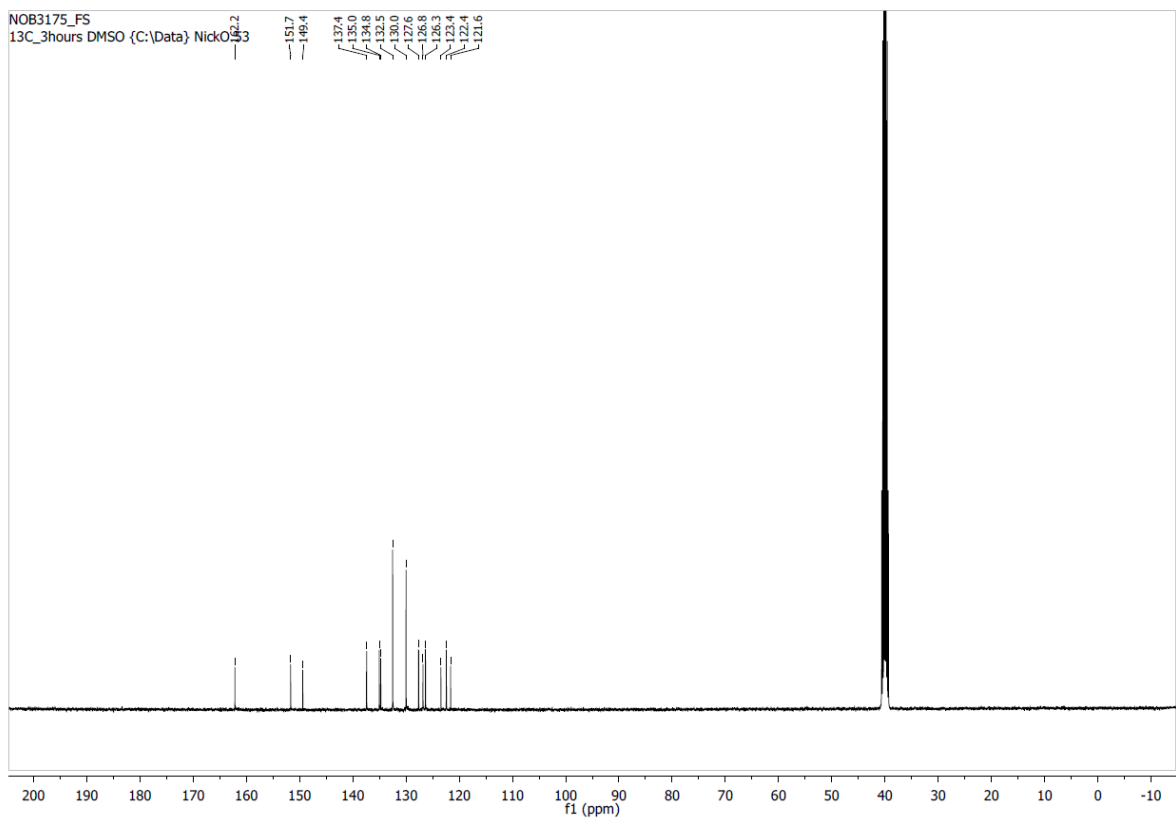
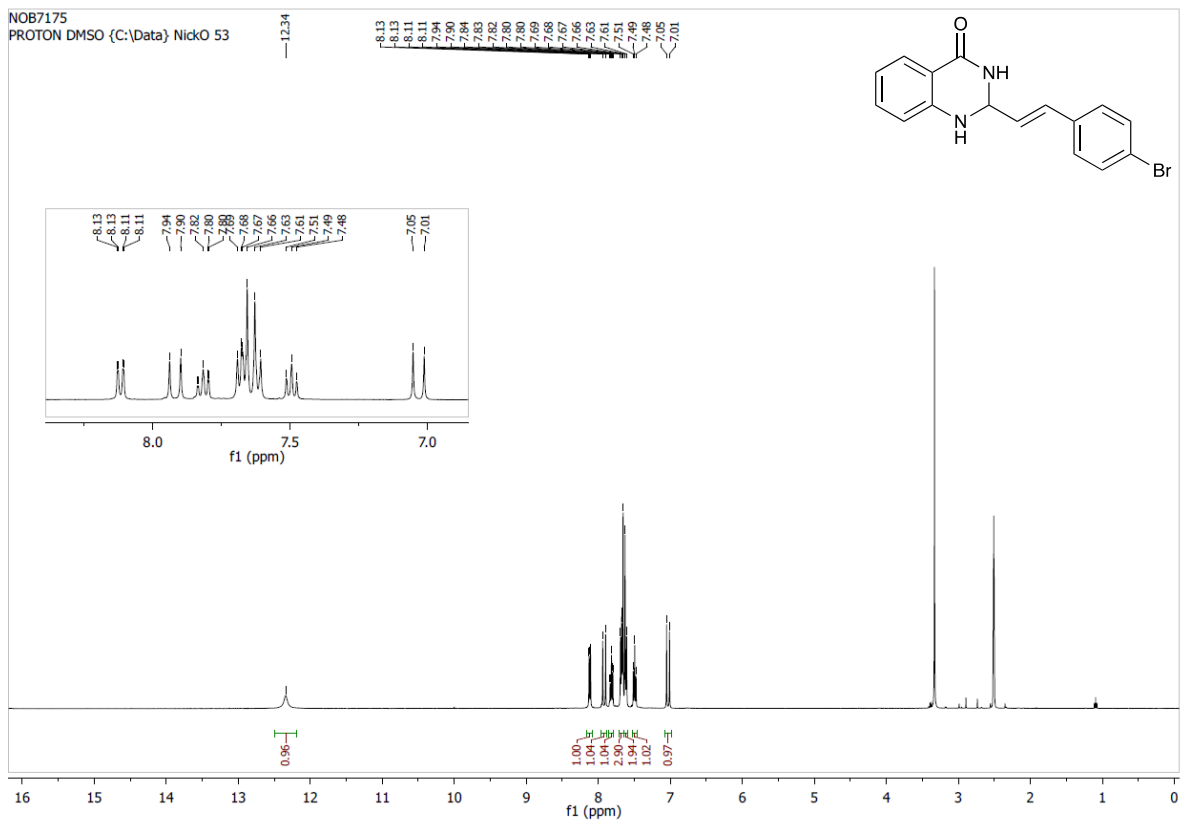
(E)-2-Styryl-2,3-dihydroquinazolin-4(1H)-one (11a)



(E)-2-(4-Methoxystyryl)-2,3-dihydroquinazolin-4(1H)-one (**11b**)



(E)-2-(4-Bromostyryl)-2,3-dihydroquinazolin-4(1H)-one (11c)



(E)-2-(Hex-1-en-1-yl)-2,3-dihydroquinazolin-4(1H)-one (11d)

