

Supplementary Data

22-Aminoquinazolin-4(3H)-one based plasmepsin inhibitors with improved hydrophilicity and selectivity

Dace Rasina[†], *Georgijs Stakanovs*[†], *Oleksandr V. Borysov*[†], *Teodors Pantelejevs*[†], *Raitis Bobrovs*[†], *Iveta Kanepe-Lapsa*[†], *Kaspars Tars*[‡], *Kristaps Jaudzems*[†], *Aigars Jirgensons*^{†*}

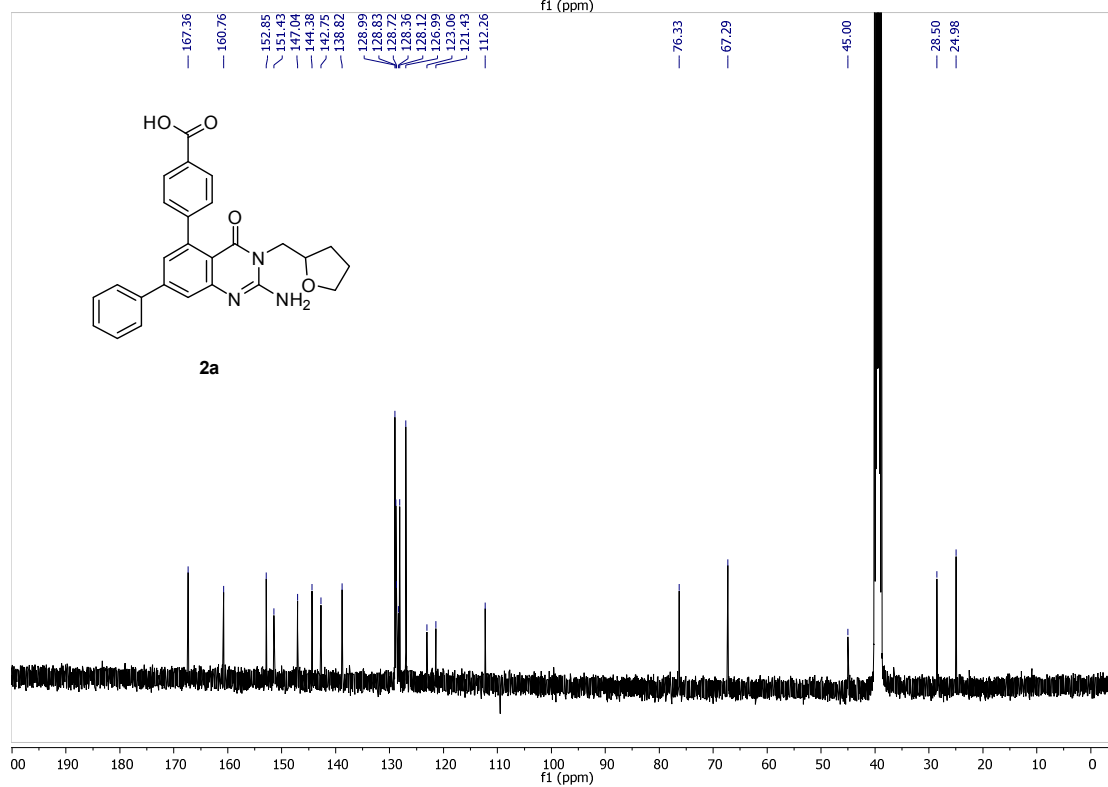
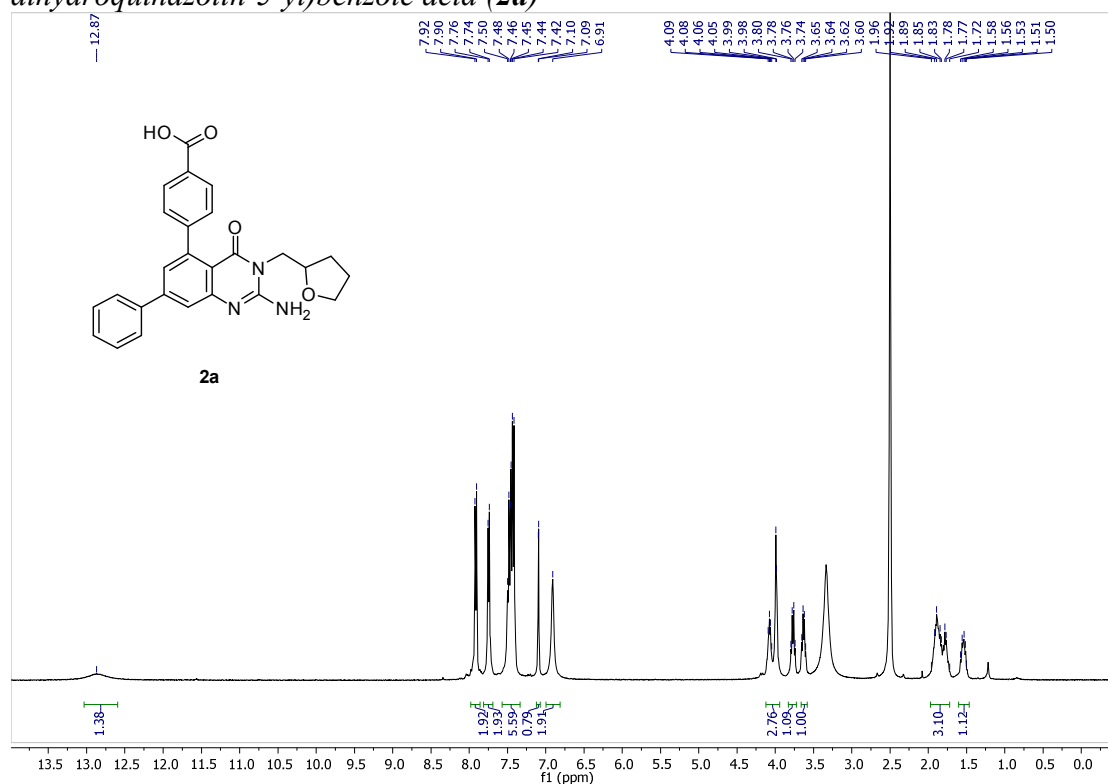
[†] Latvian Institute of Organic Synthesis, Aizkraukles 21, Riga LV-1006, Latvia

[‡] Biomedical Research and Study Centre, Ratsupites 1, Riga LV-1067, Latvia

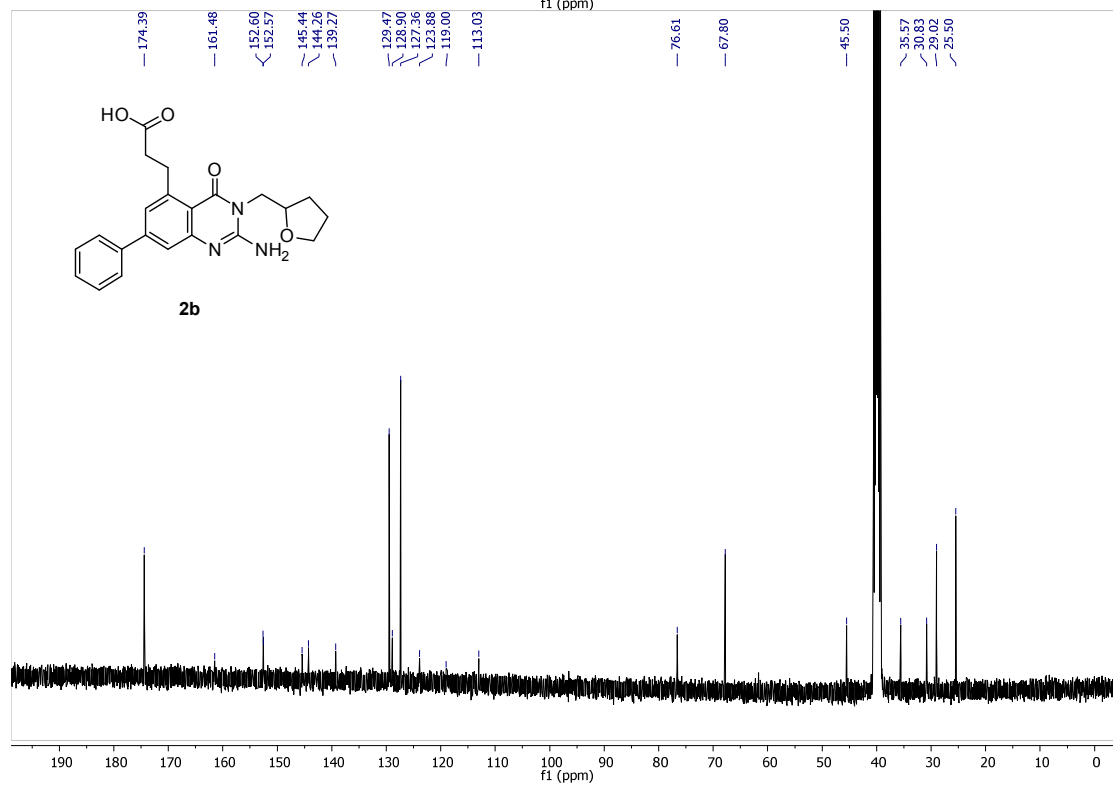
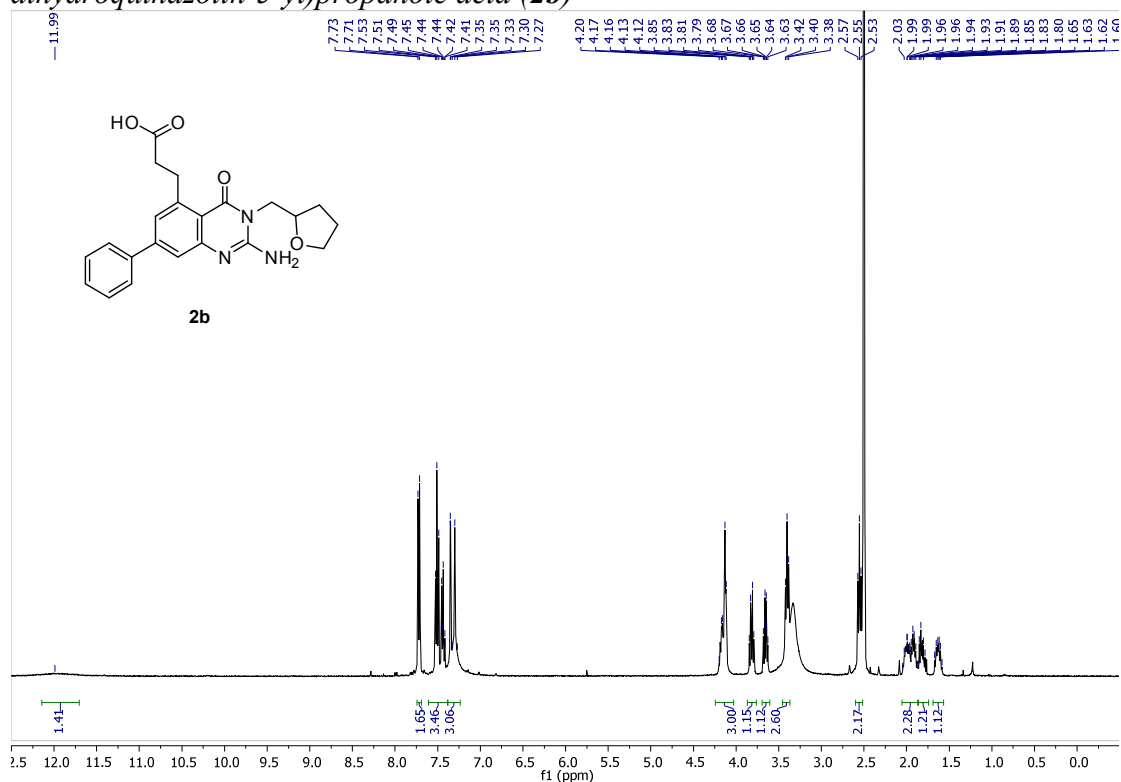
Contents

The ¹H and ¹³C NMR spectra of final products.

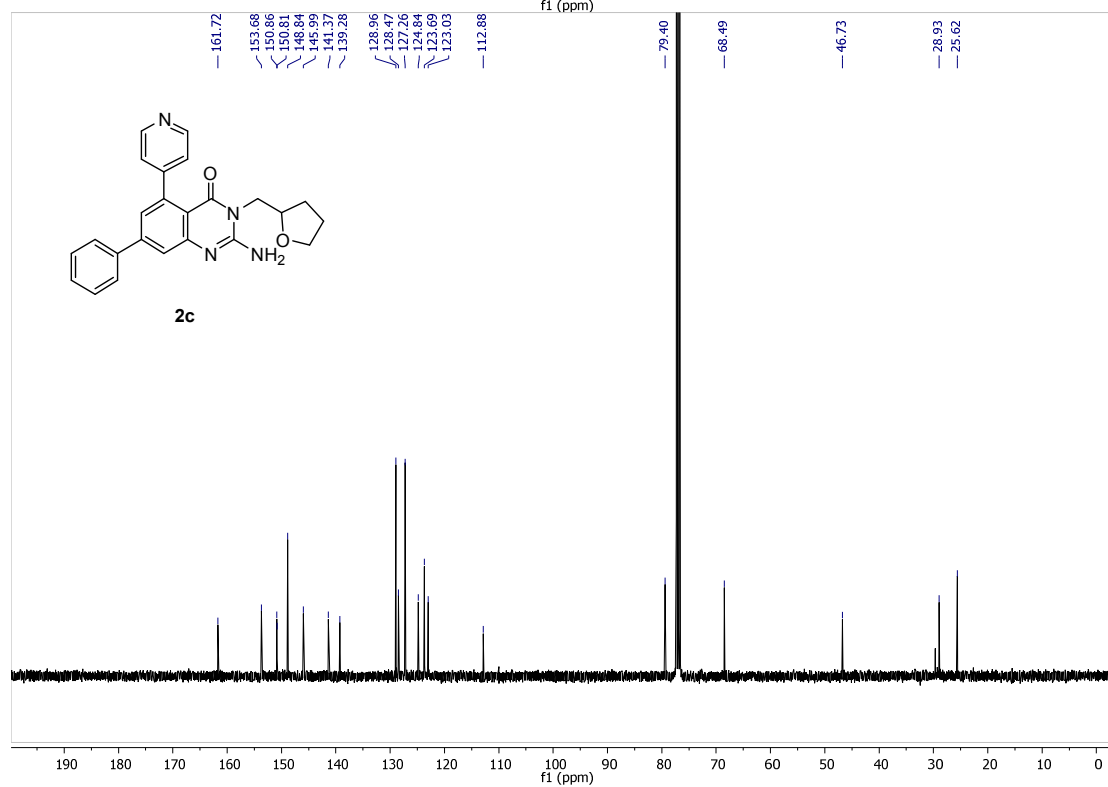
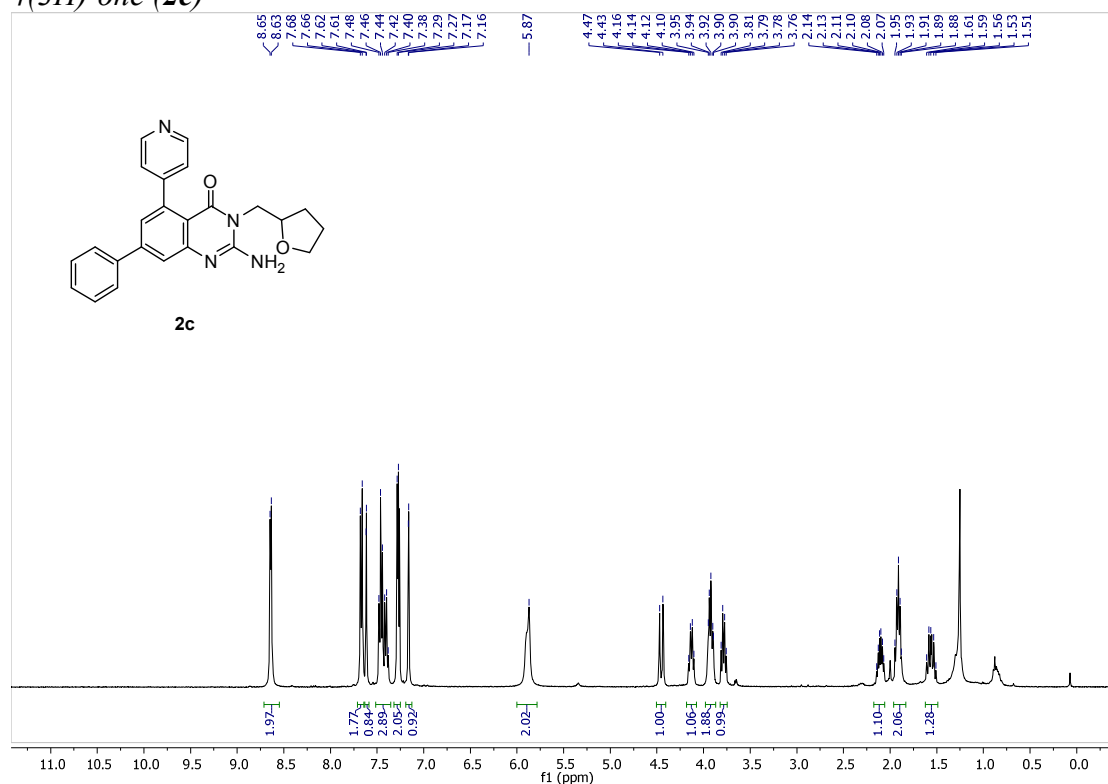
rac-4-(2-Amino-4-oxo-7-phenyl-3-((tetrahydrofuran-2-yl)methyl)-3,4-dihydroquinazolin-5-yl)benzoic acid (**2a**)



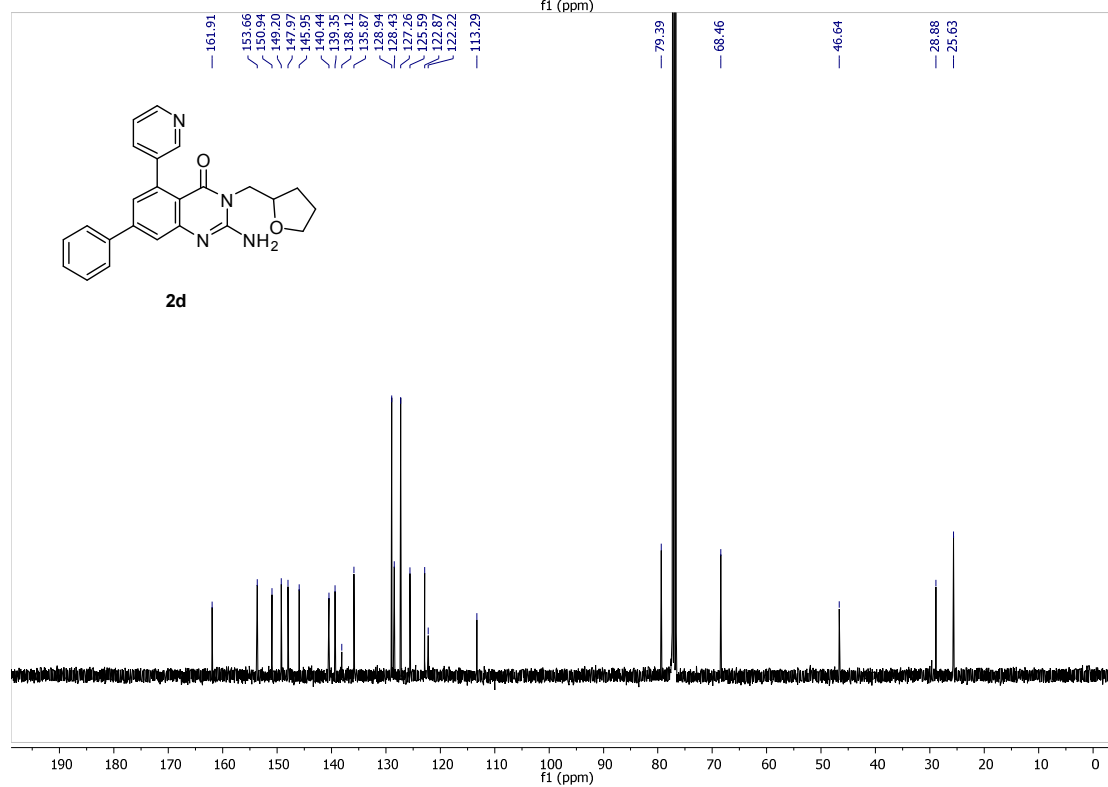
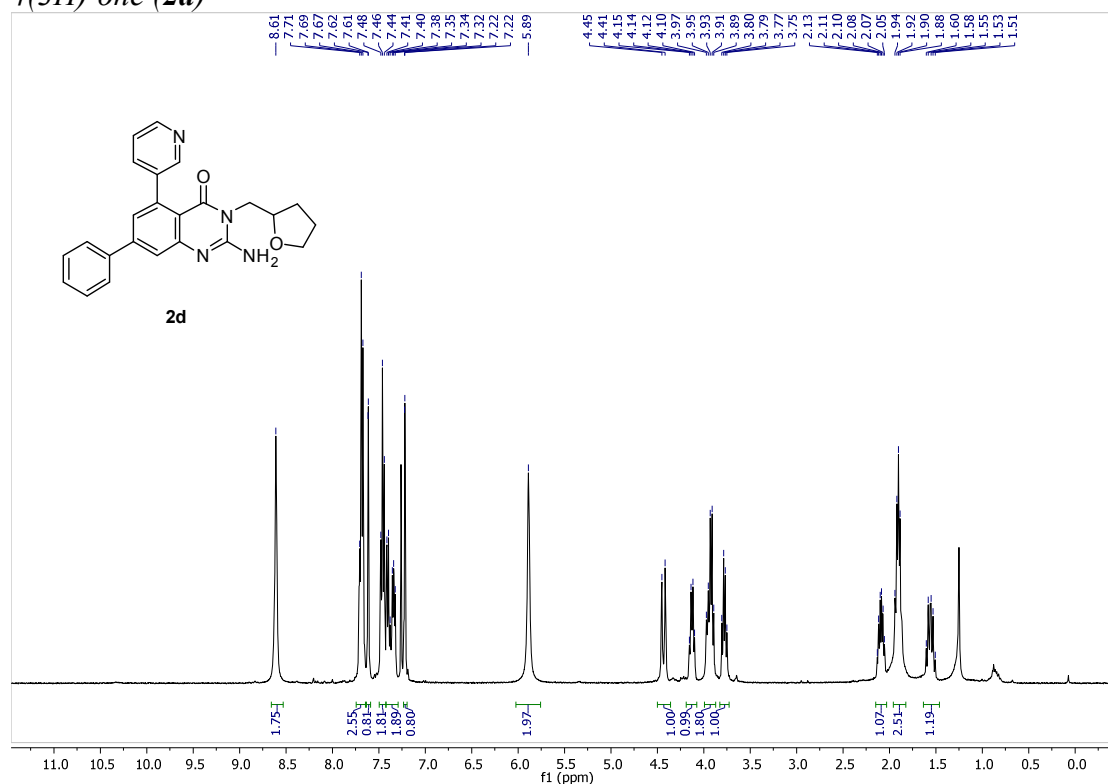
rac-3-(2-Amino-4-oxo-7-phenyl-3-((tetrahydrofuran-2-yl)methyl)-3,4-dihydroquinazolin-5-yl)propanoic acid (**2b**)



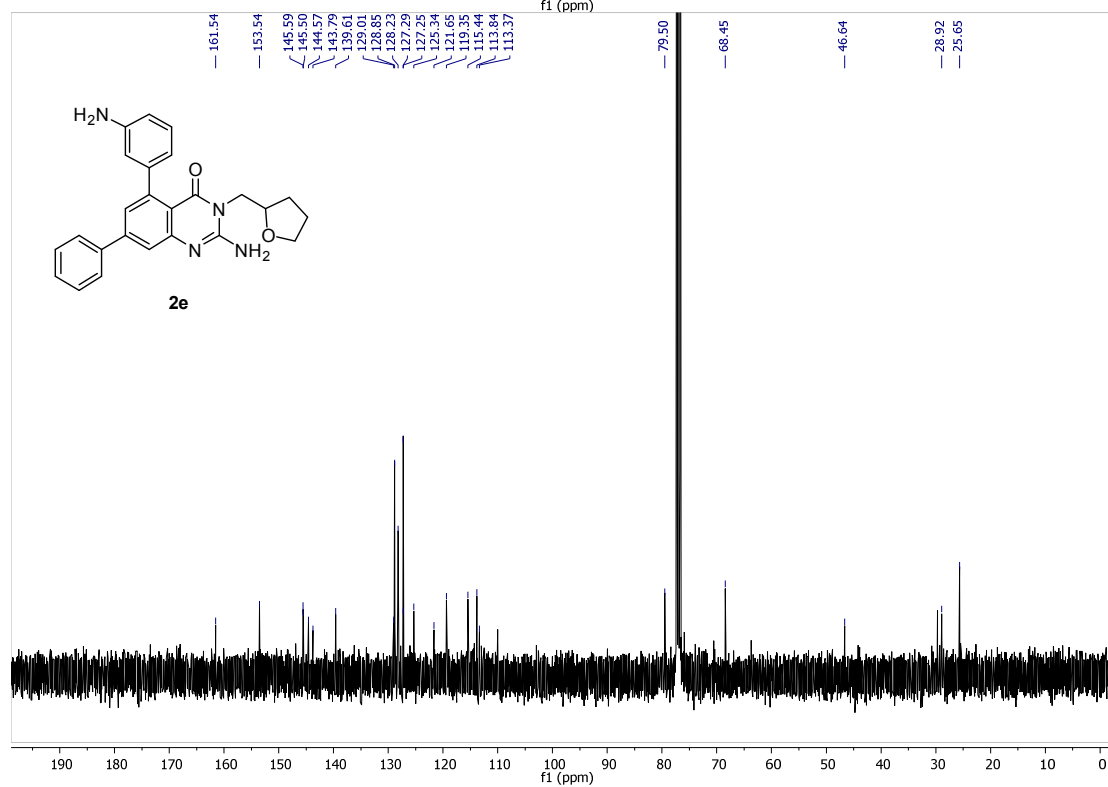
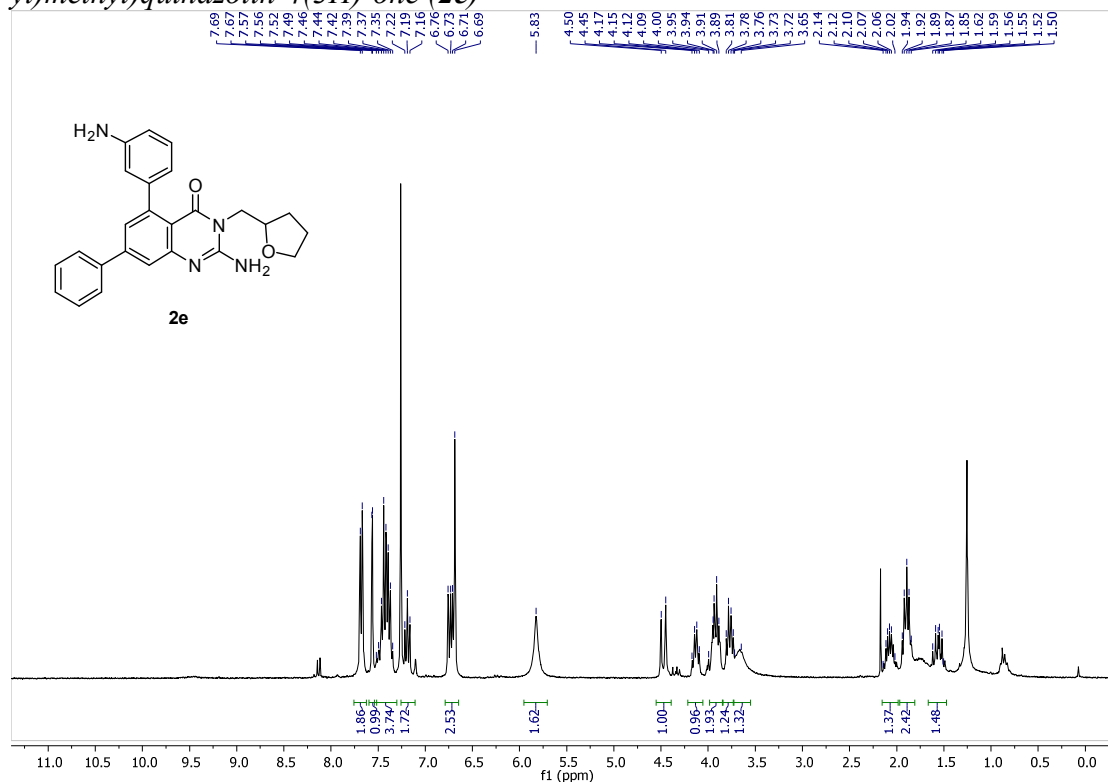
rac-2-Amino-7-phenyl-5-(pyridin-4-yl)-3-((tetrahydrofuran-2-yl)methyl)quinazolin-4(3H)-one (**2c**)



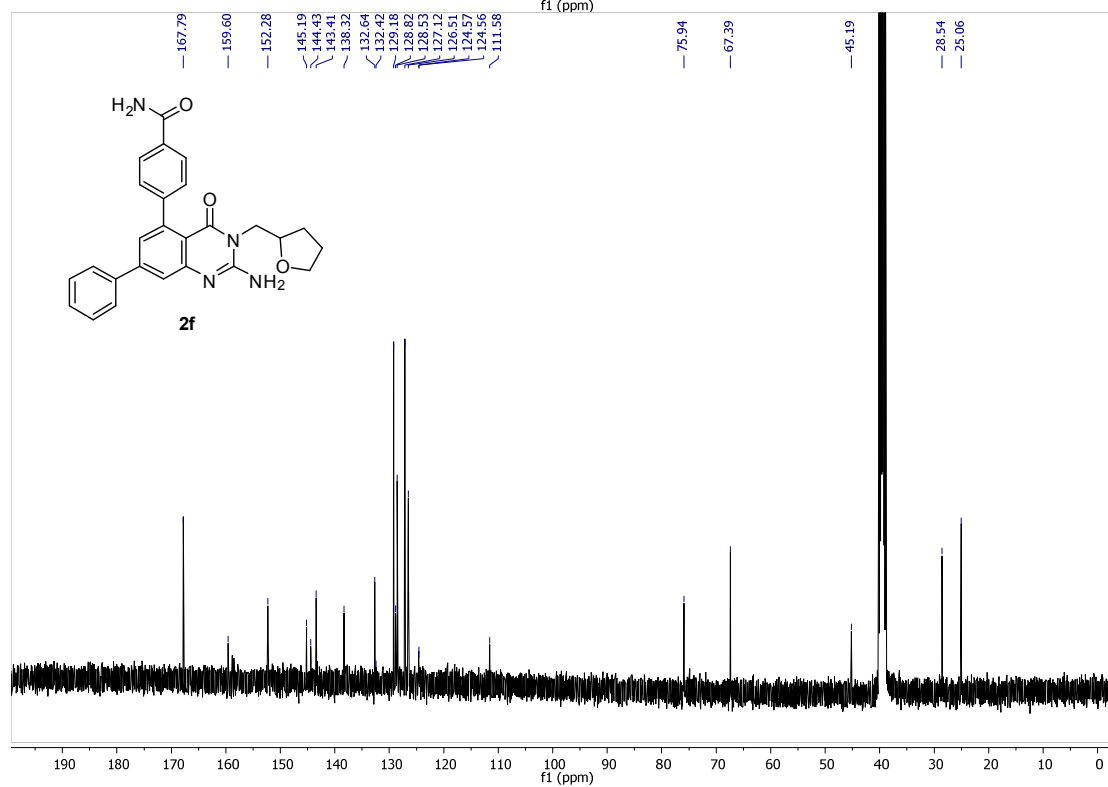
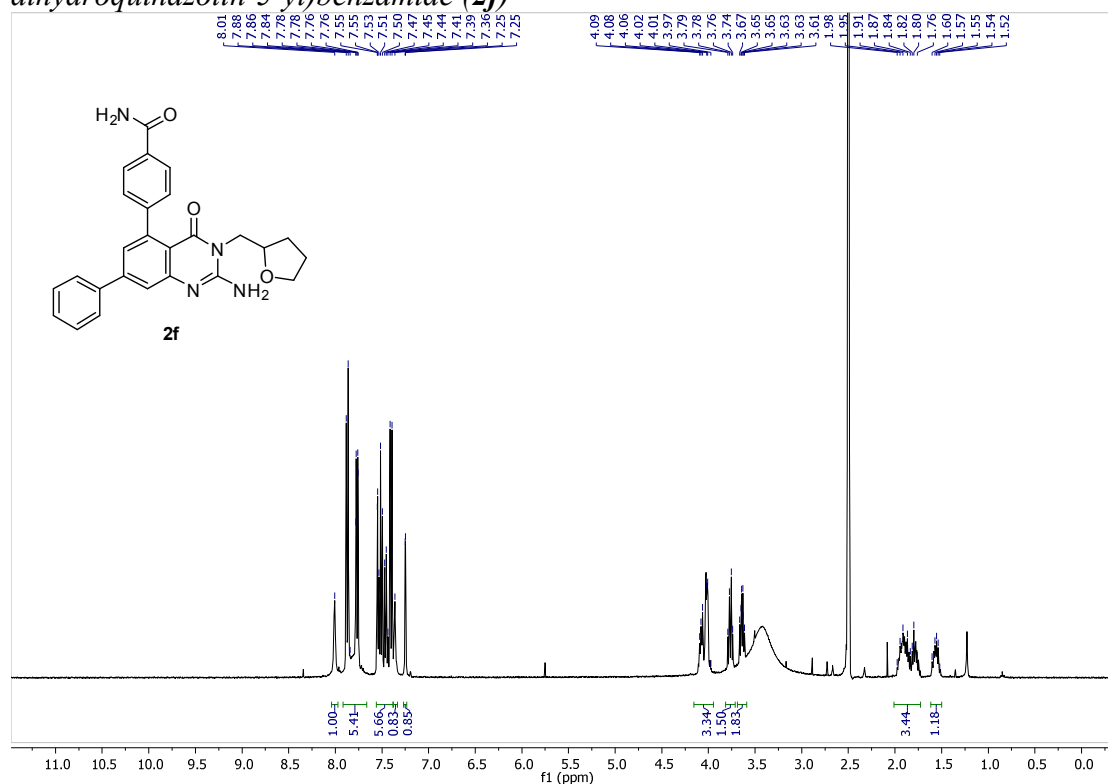
rac-2-Amino-7-phenyl-5-(pyridin-3-yl)-3-((tetrahydrofuran-2-yl)methyl)quinazolin-4(3H)-one (**2d**)



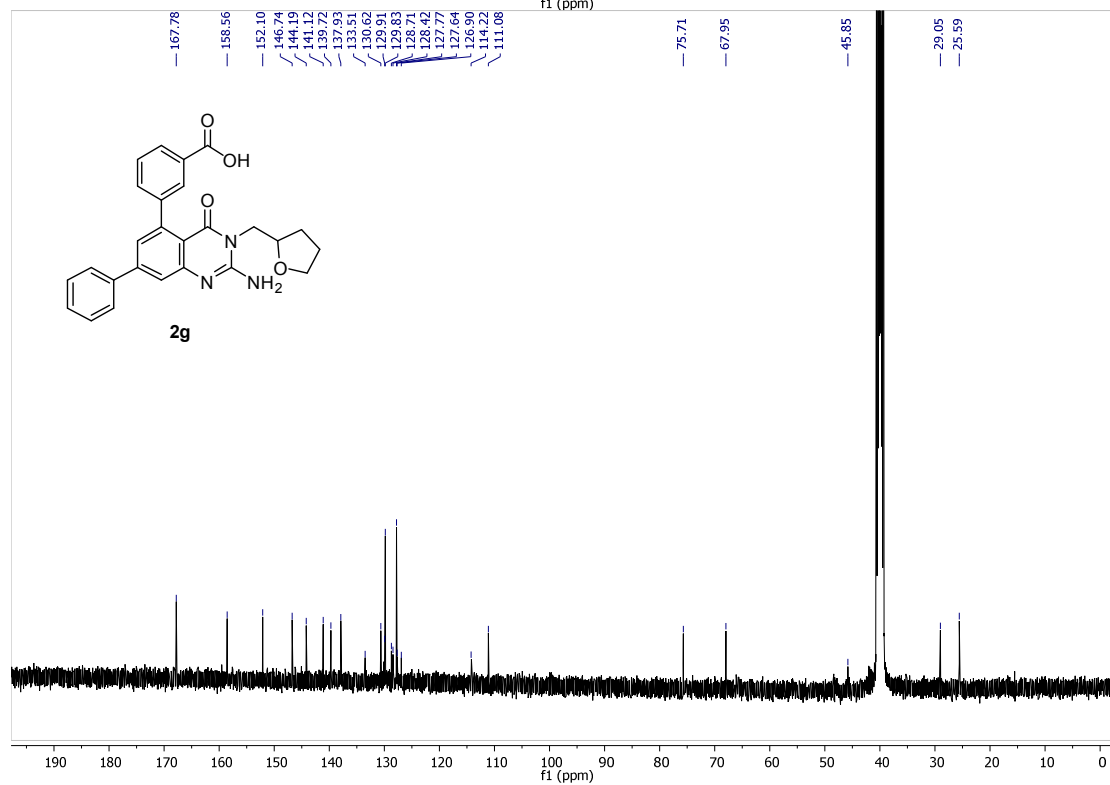
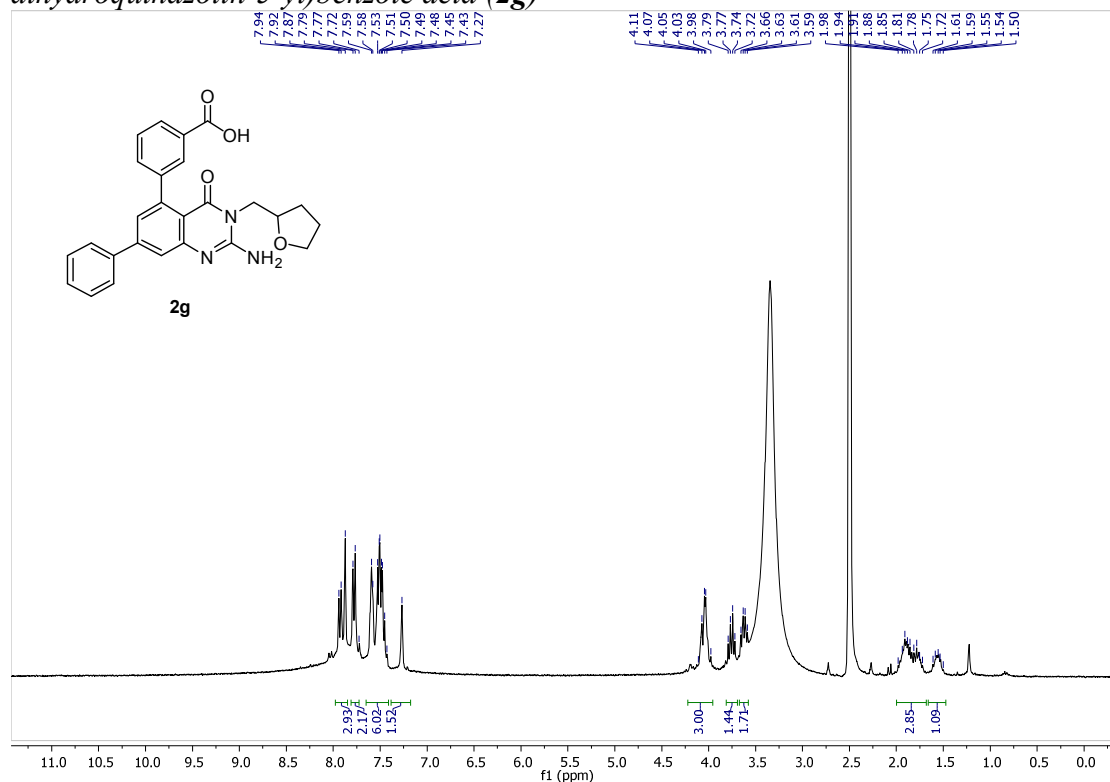
rac-2-Amino-5-(3-aminophenyl)-7-phenyl-3-((tetrahydrofuran-2-yl)methyl)quinazolin-4(3H)-one (**2e**)



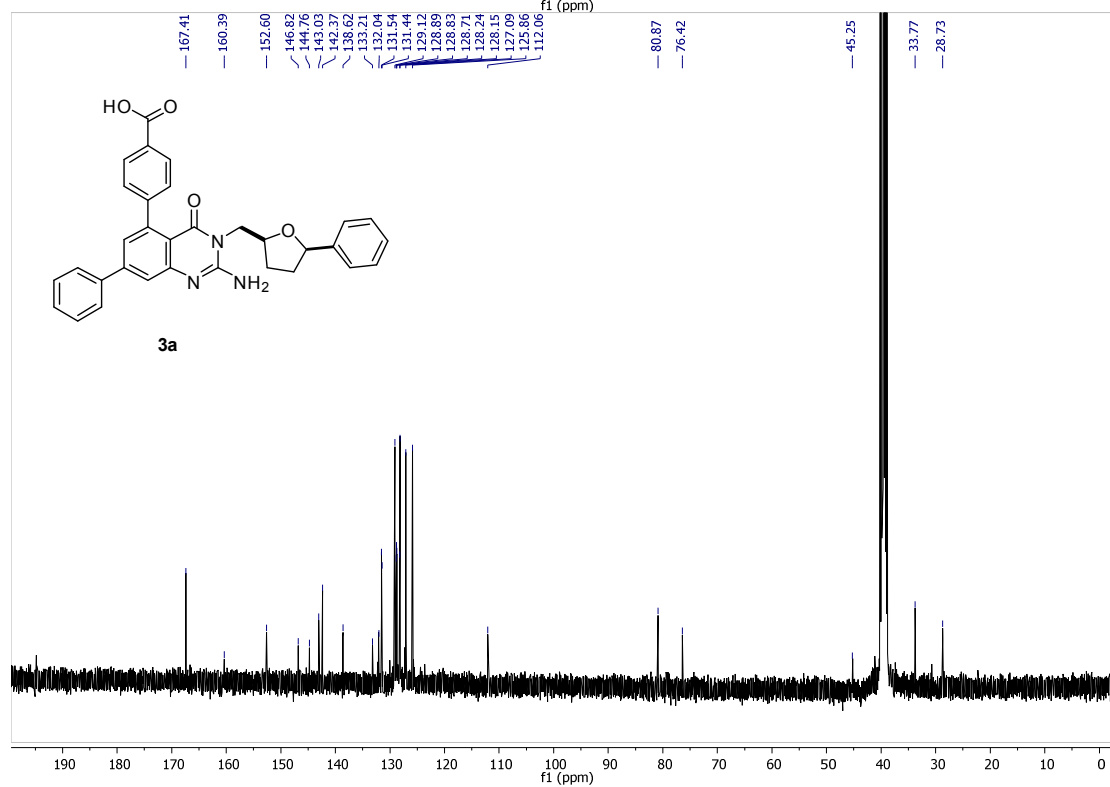
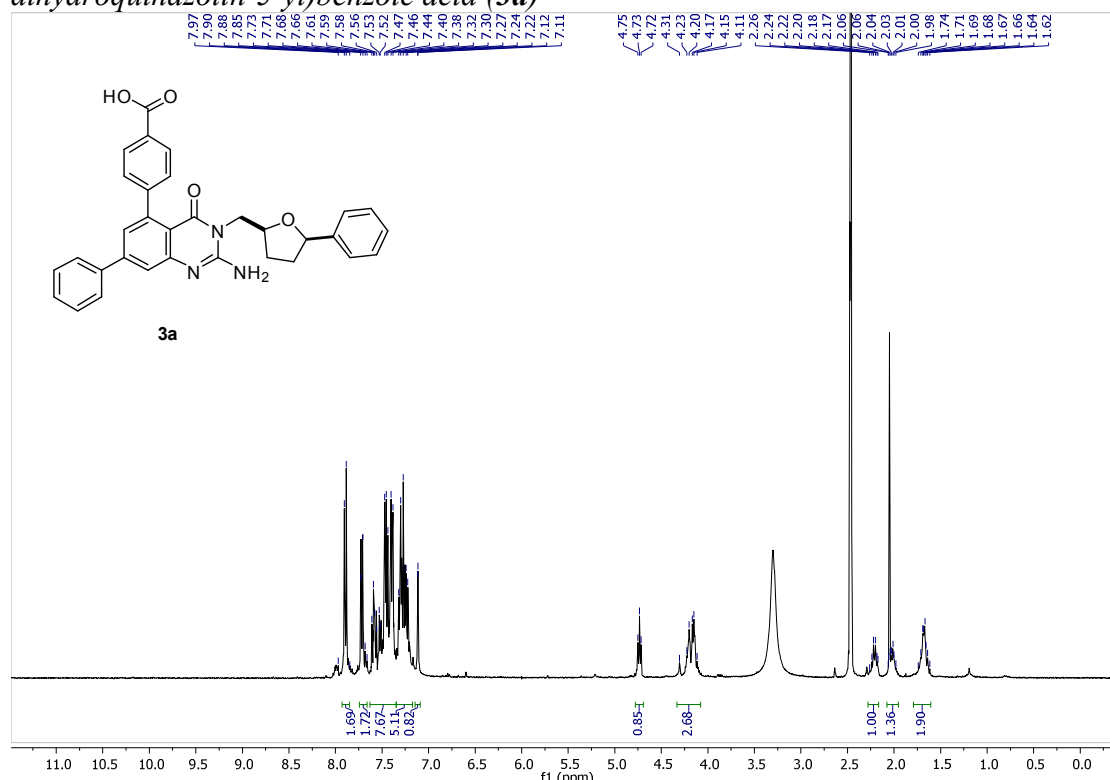
rac-4-(2-Amino-4-oxo-7-phenyl-3-((tetrahydrofuran-2-yl)methyl)-3,4-dihydroquinazolin-5-yl)benzamide (**2f**)



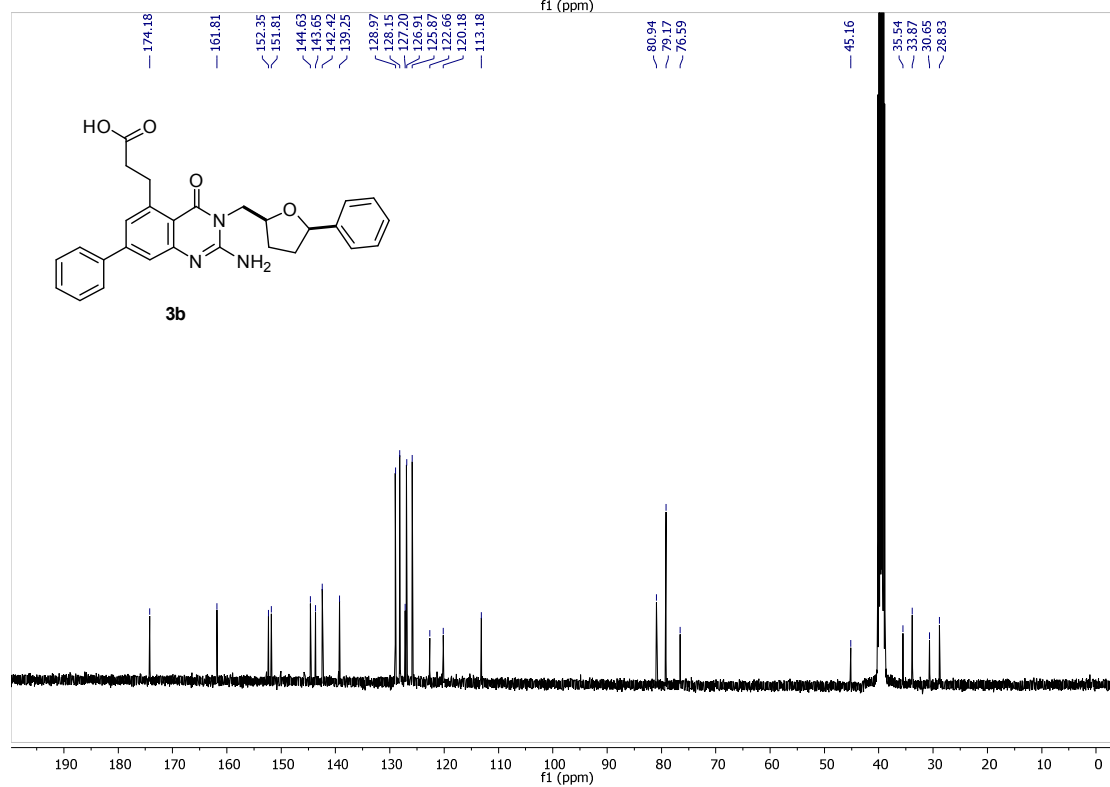
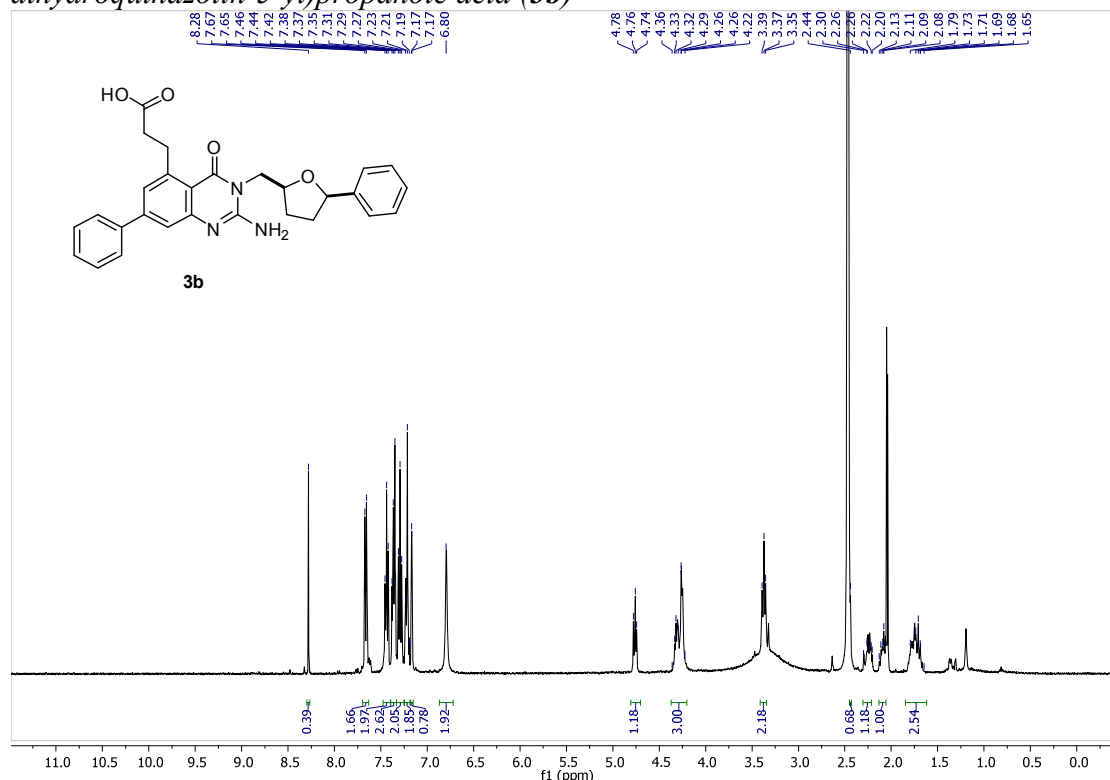
rac-3-(2-Amino-4-oxo-7-phenyl-3-((tetrahydrofuran-2-yl)methyl)-3,4-dihydroquinazolin-5-yl)benzoic acid (**2g**)



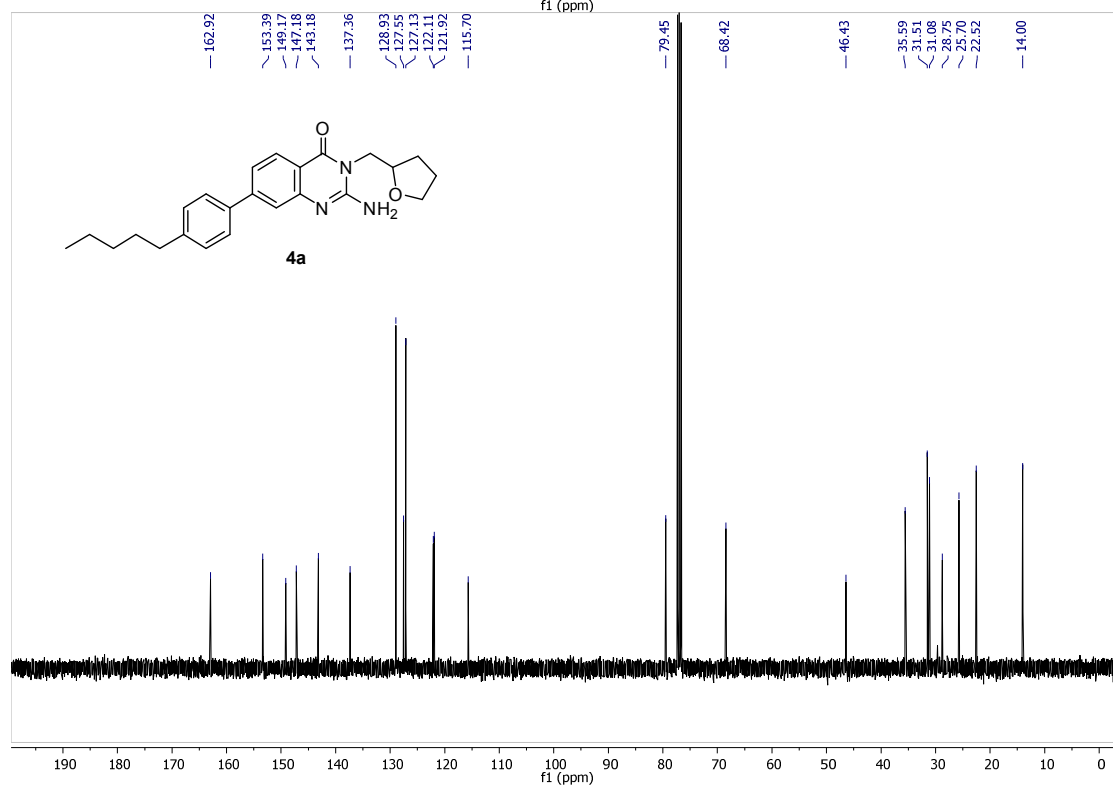
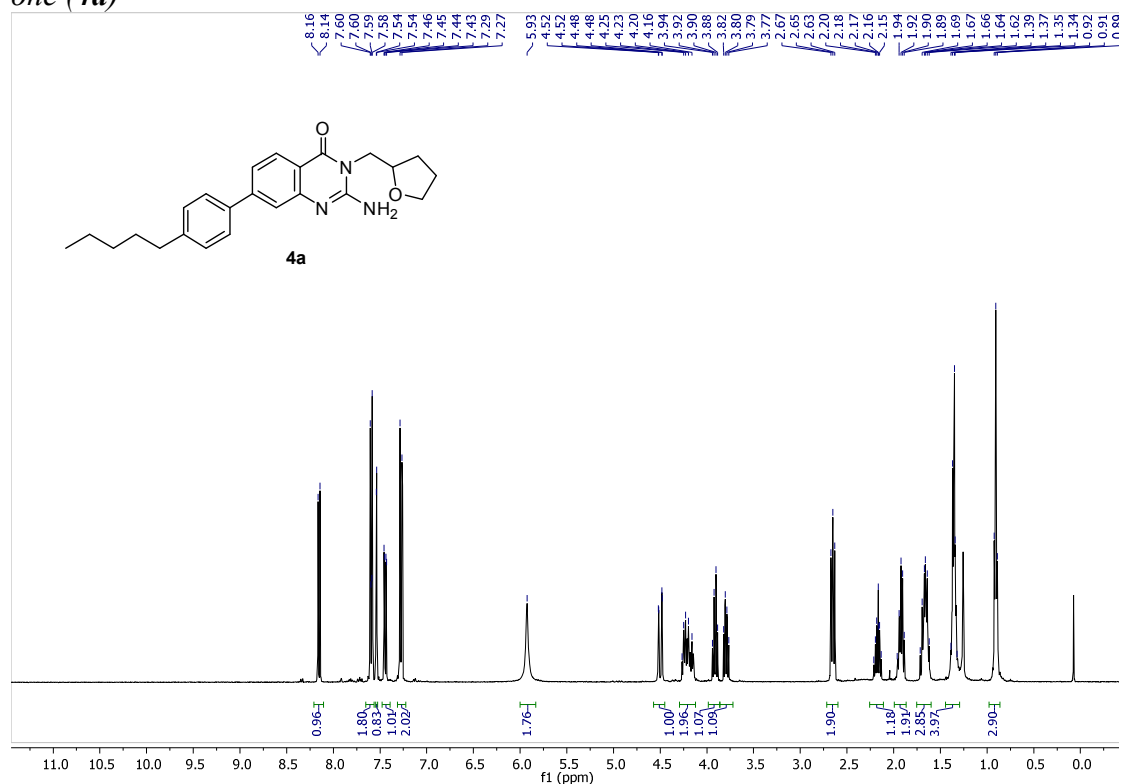
4-(2-Amino-4-oxo-7-phenyl-3-(((2*S**,5*R**)-5-phenyltetrahydrofuran-2-yl)methyl)-3,4-dihydroquinazolin-5-yl)benzoic acid (**3a**)



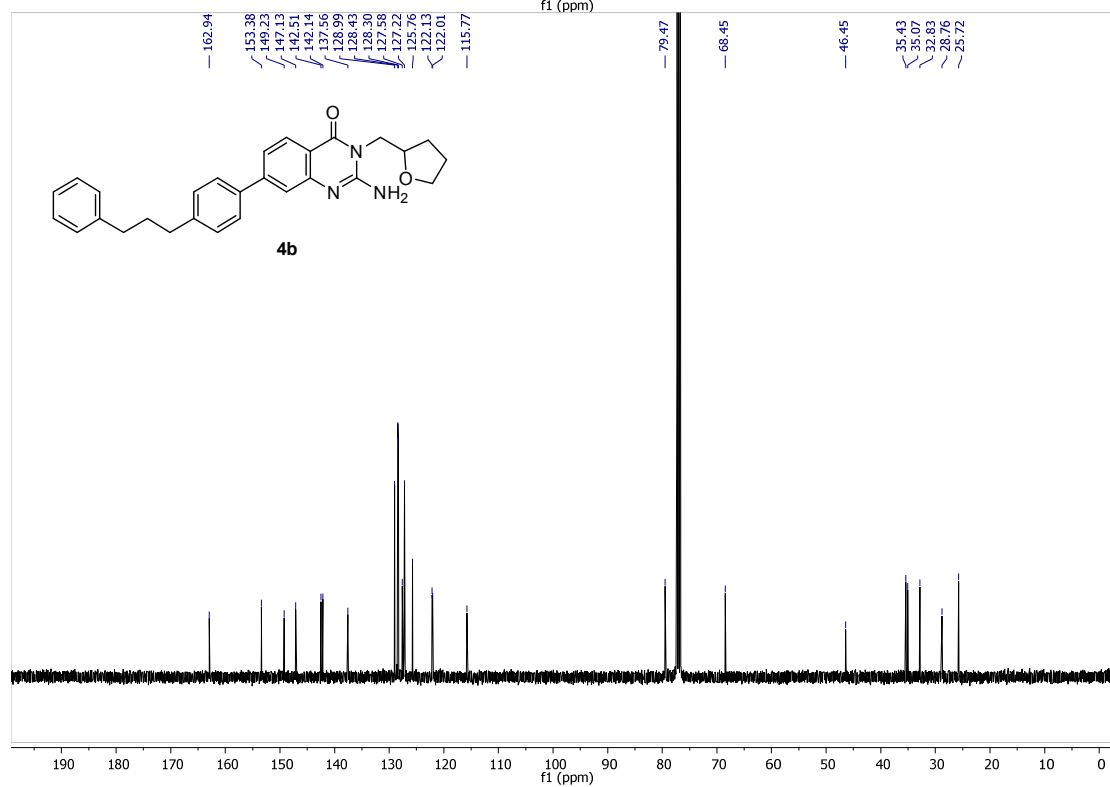
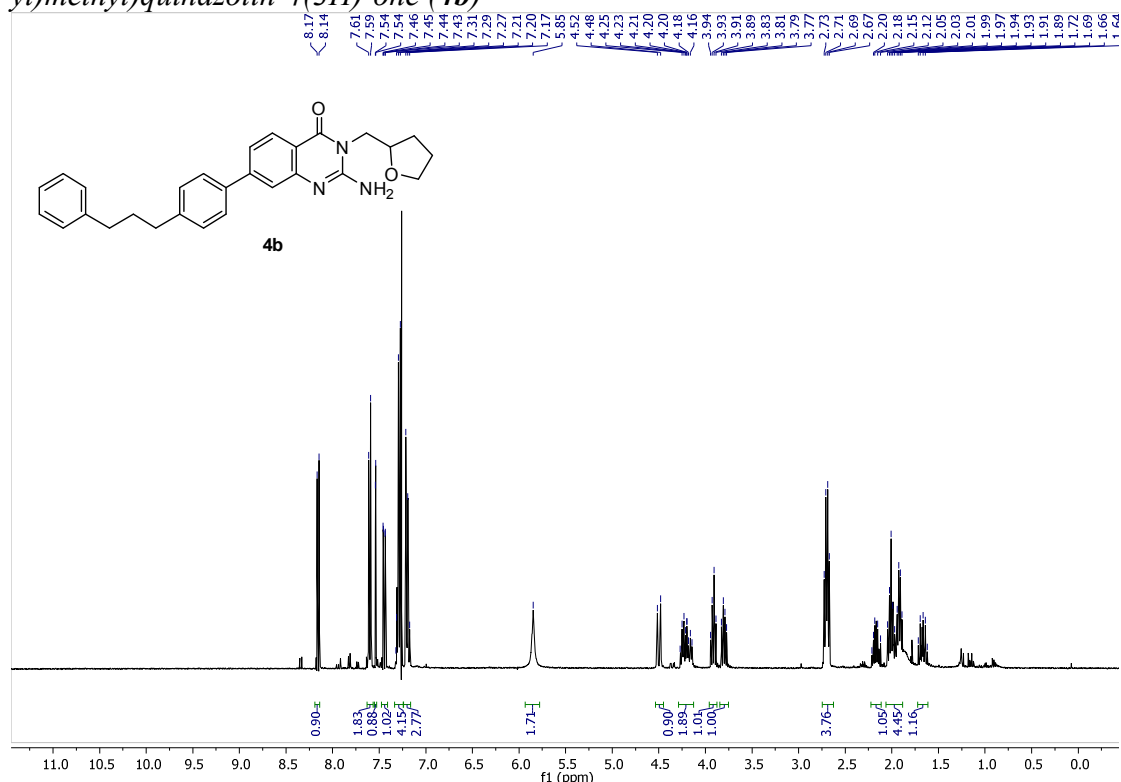
3-(2-Amino-4-oxo-7-phenyl-3-(((2S*,5R*)-5-phenyltetrahydrofuran-2-yl)methyl)-3,4-dihydroquinazolin-5-yl)propanoic acid (**3b**)



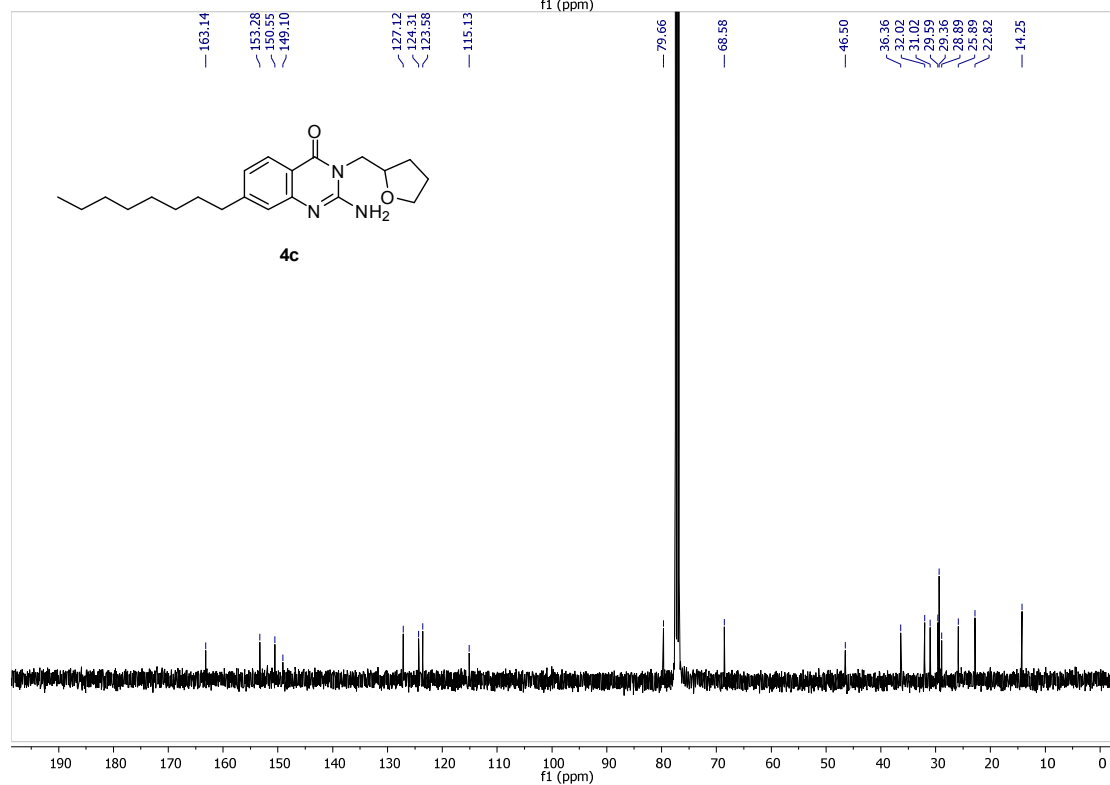
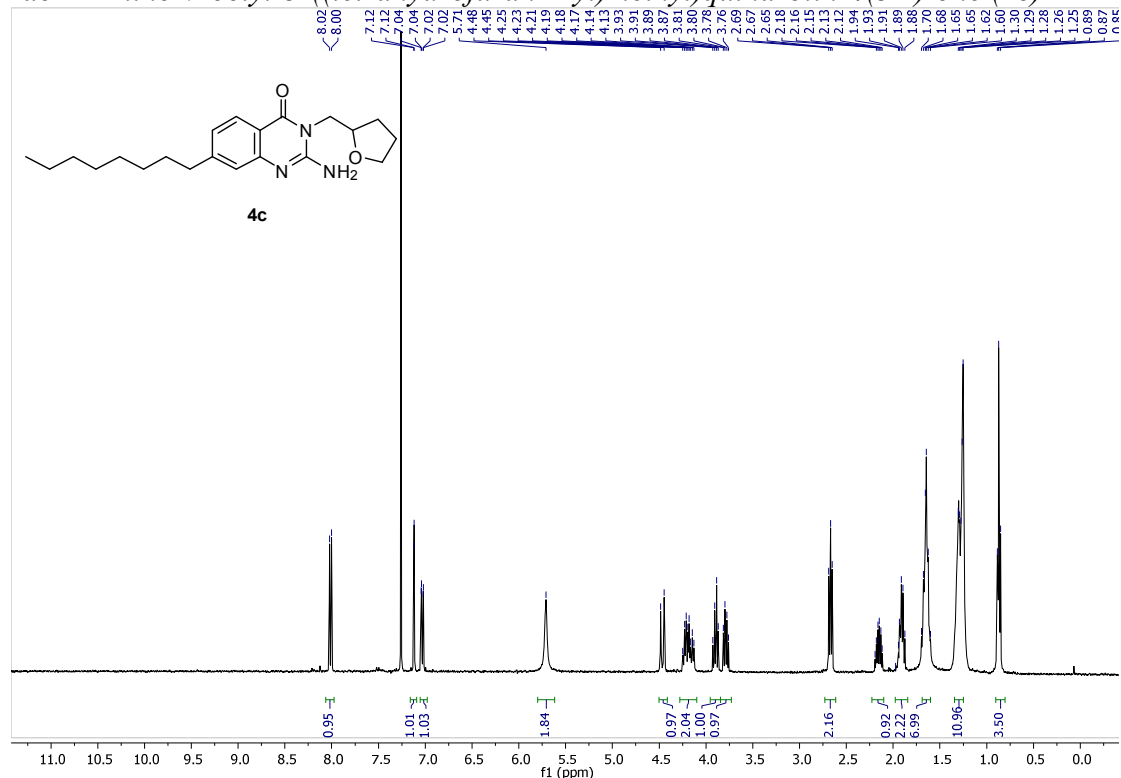
rac-2-Amino-7-(4-pentylphenyl)-3-((tetrahydrofuran-2-yl)methyl)quinazolin-4(3H)-one (**4a**)



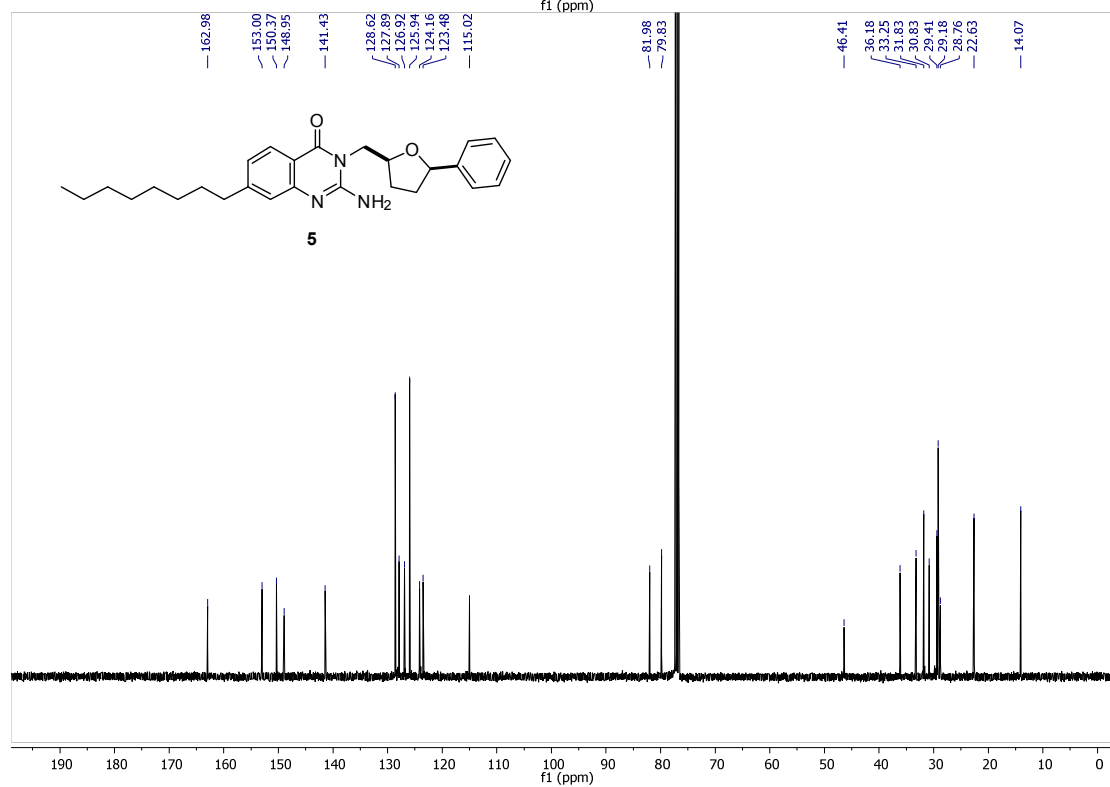
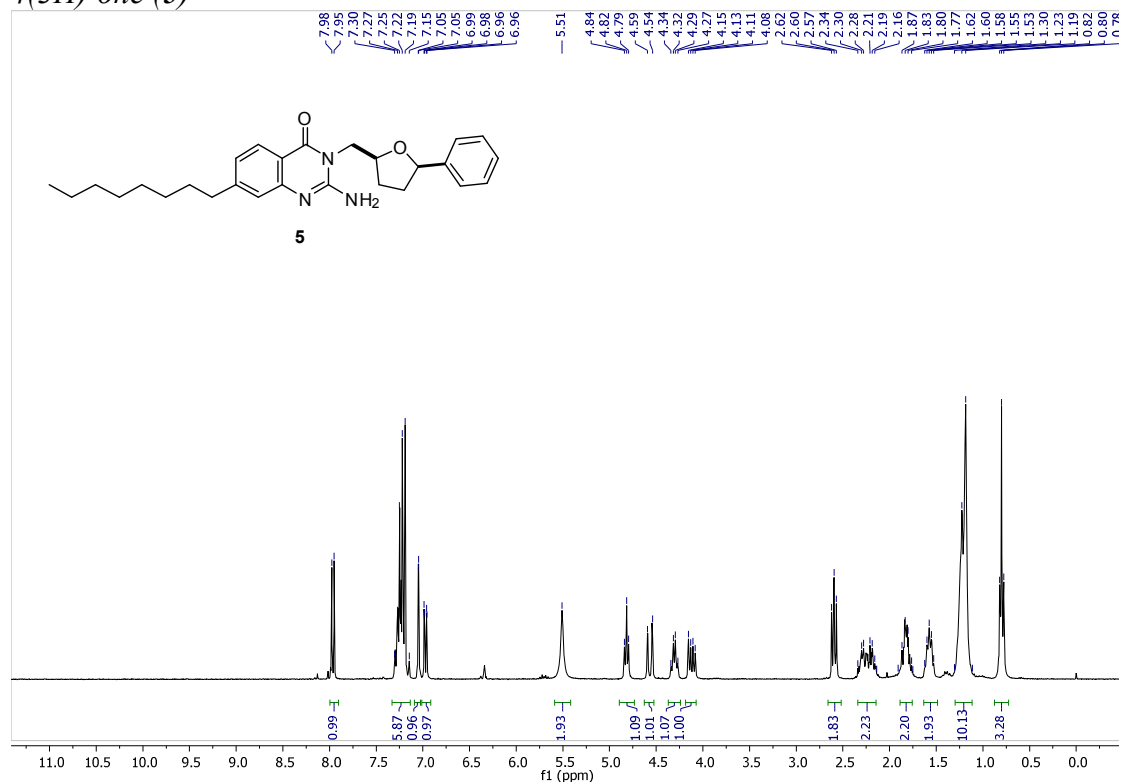
rac-2-Amino-7-(4-(3-phenylpropyl)phenyl)-3-((tetrahydrofuran-2-yl)methyl)quinazolin-4(3H)-one (**4b**)



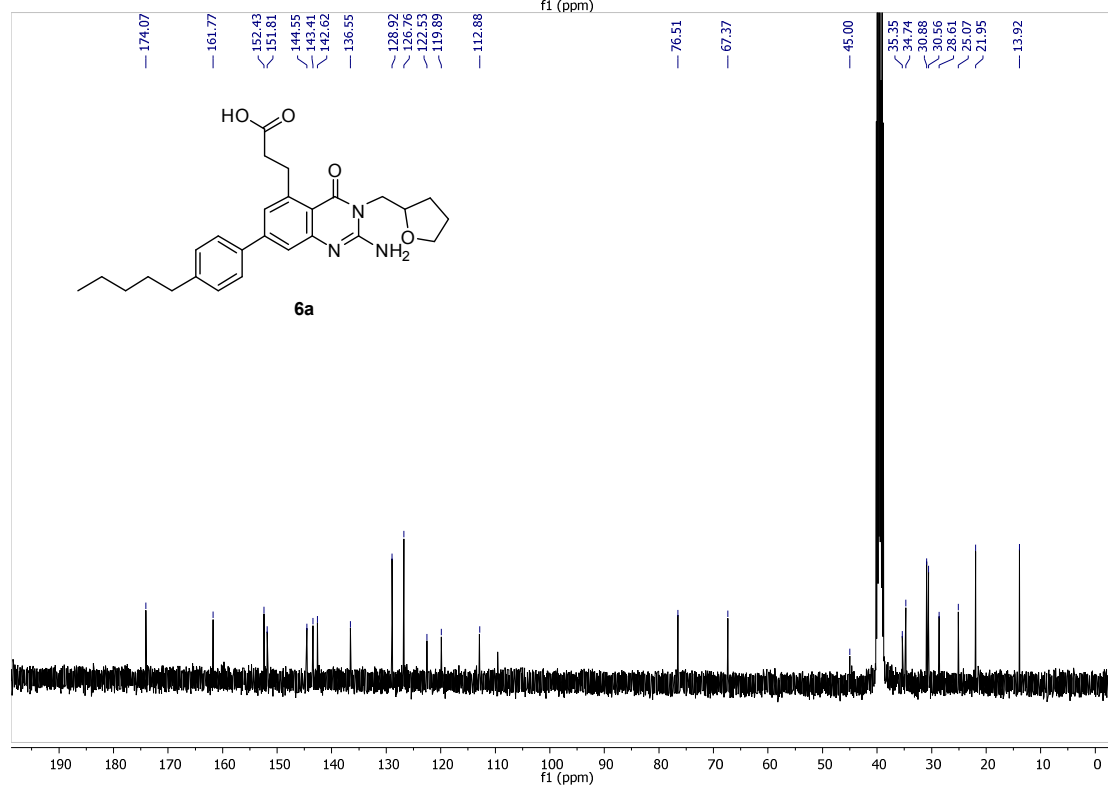
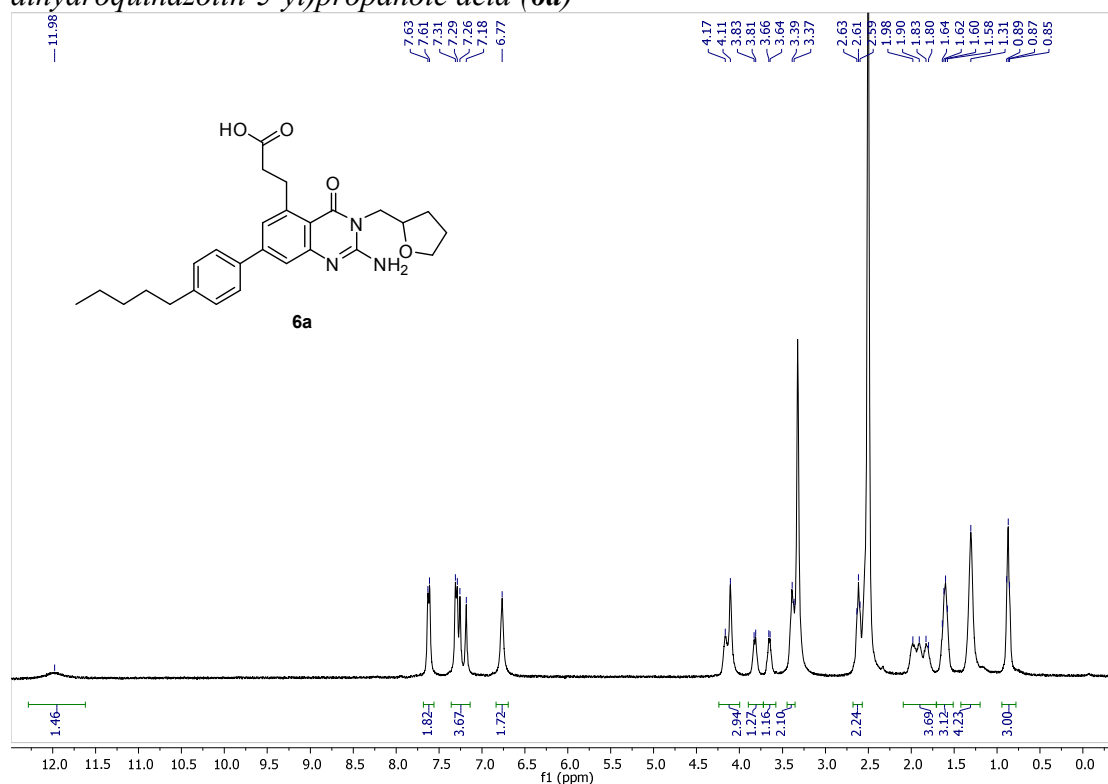
rac-2-Amino-7-octyl-3-((tetrahydrofuran-2-yl)methyl)quinazolin-4(3H)-one (**4c**)



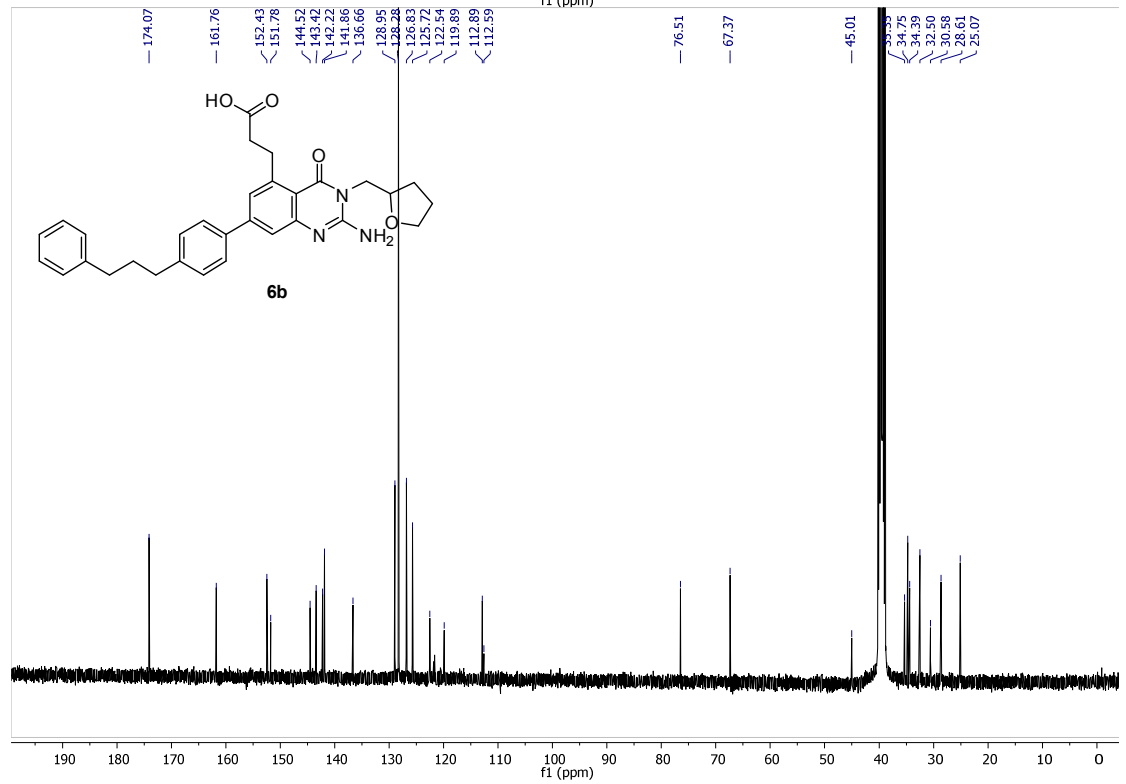
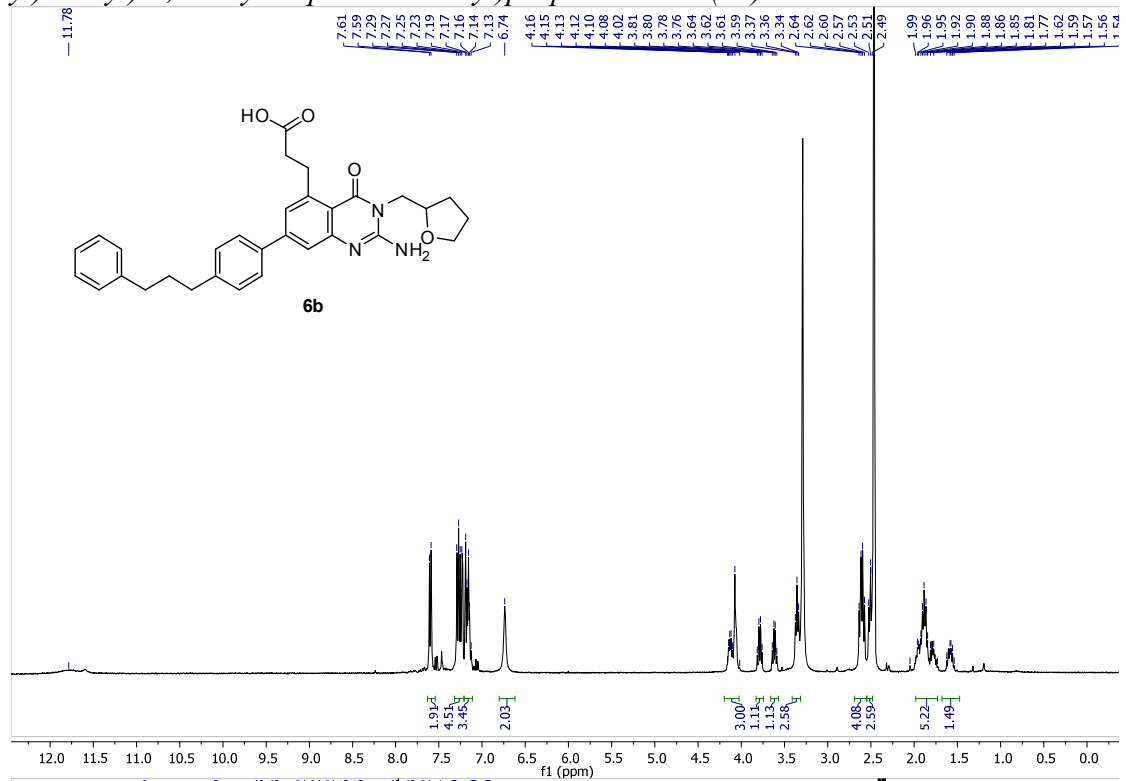
2-Amino-7-octyl-3-(((2*S**,5*R**)-5-phenyltetrahydrofuran-2-yl)methyl)quinazolin-4(3*H*)-one (**5**)



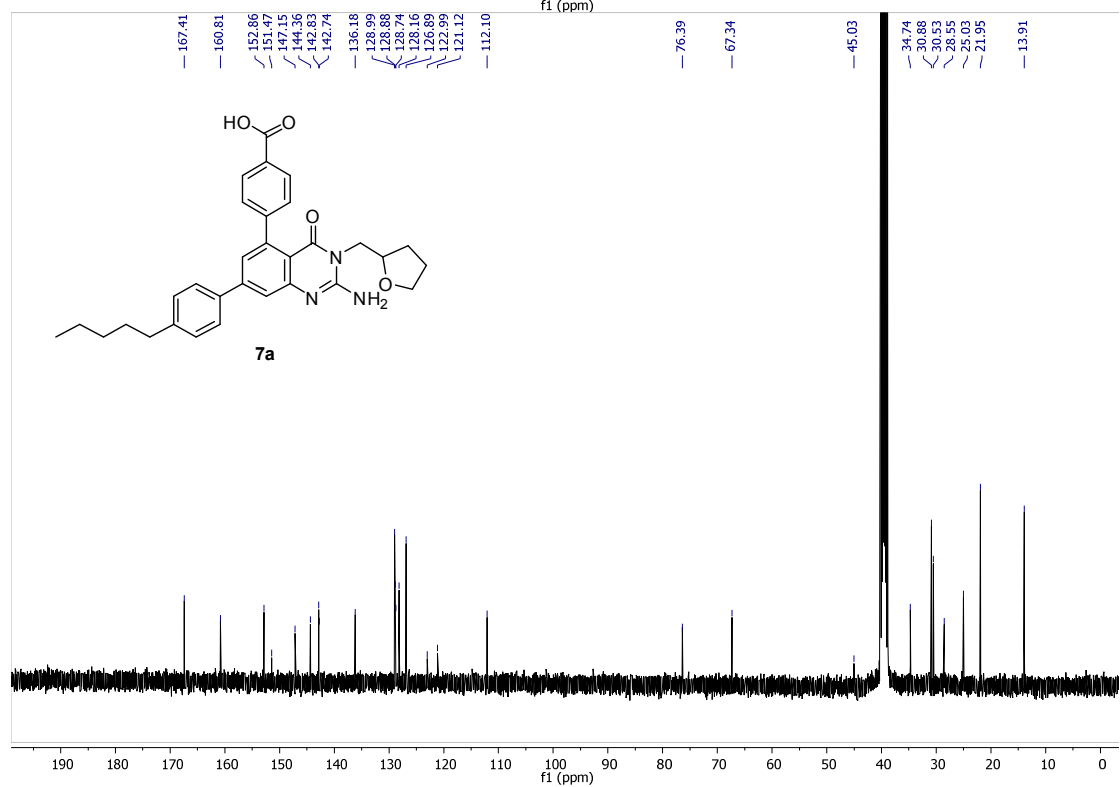
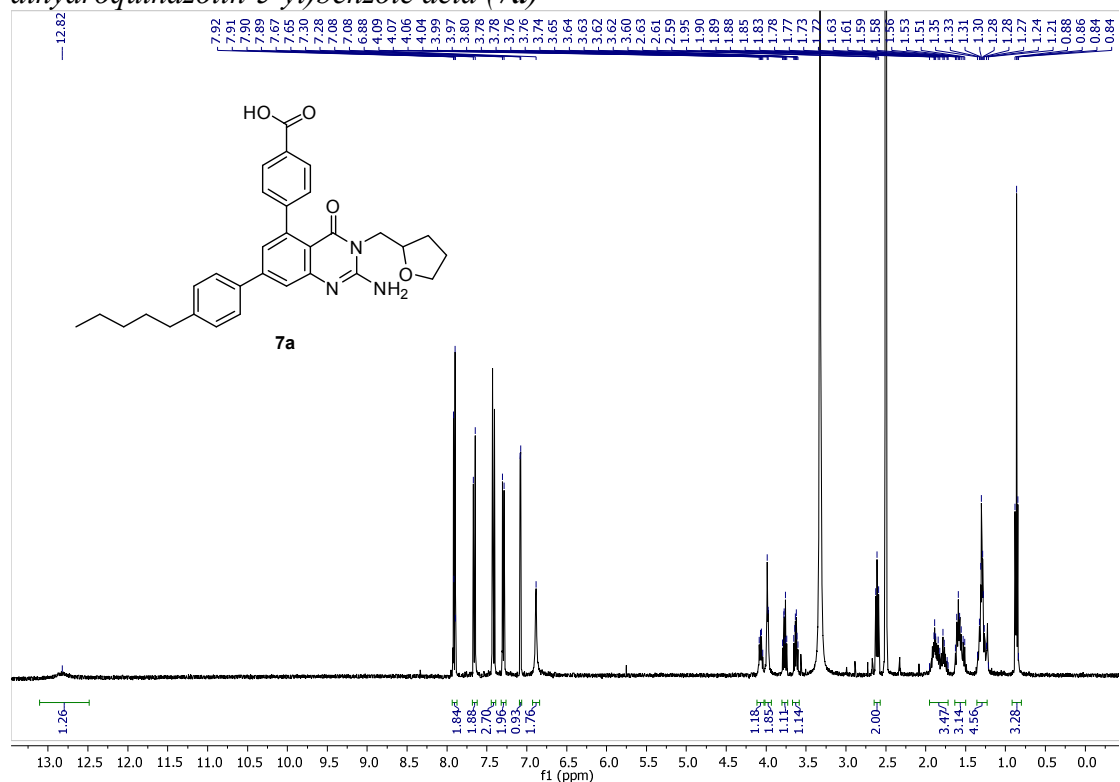
rac-3-(2-Amino-4-oxo-7-(4-pentylphenyl)-3-((tetrahydrofuran-2-yl)methyl)-3,4-dihydroquinazolin-5-yl)propanoic acid (**6a**)



rac-3-(2-Amino-4-oxo-7-(4-(3-phenylpropyl)phenyl)phenyl)-3-((tetrahydrofuran-2-yl)methyl)-3,4-dihydroquinazolin-5-yl)propanoic acid (**6b**)



rac-4-(2-Amino-4-oxo-7-(4-pentylphenyl)-3-((tetrahydrofuran-2-yl)methyl)-3,4-dihydroquinazolin-5-yl)benzoic acid (**7a**)



rac-4-(2-Amino-4-oxo-7-(4-(3-phenylpropyl)phenyl)phenyl)-3-((tetrahydrofuran-2-yl)methyl)-3,4-dihydroquinazolin-5-yl)benzoic acid (**7b**)

