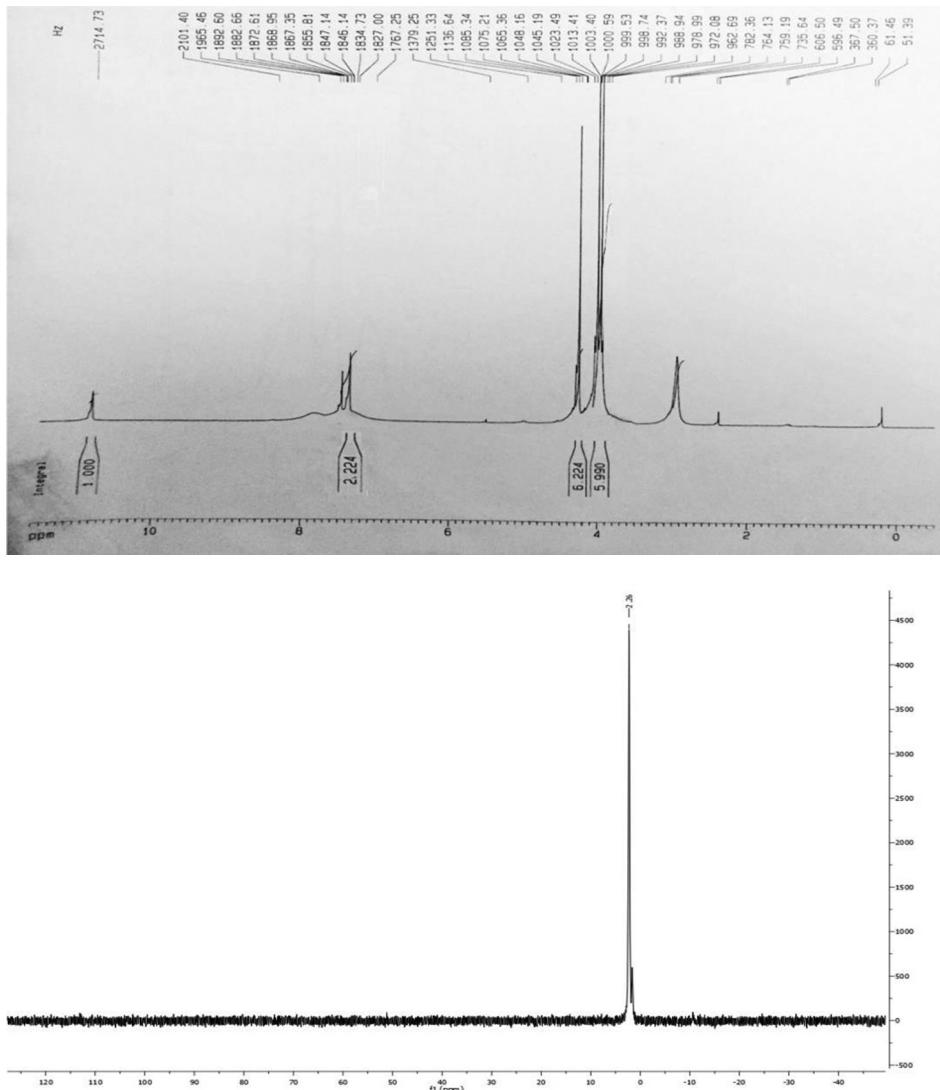
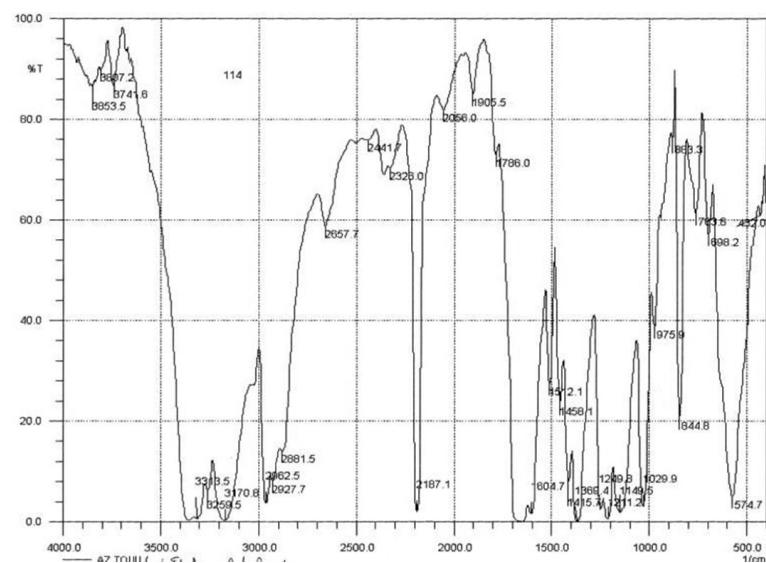
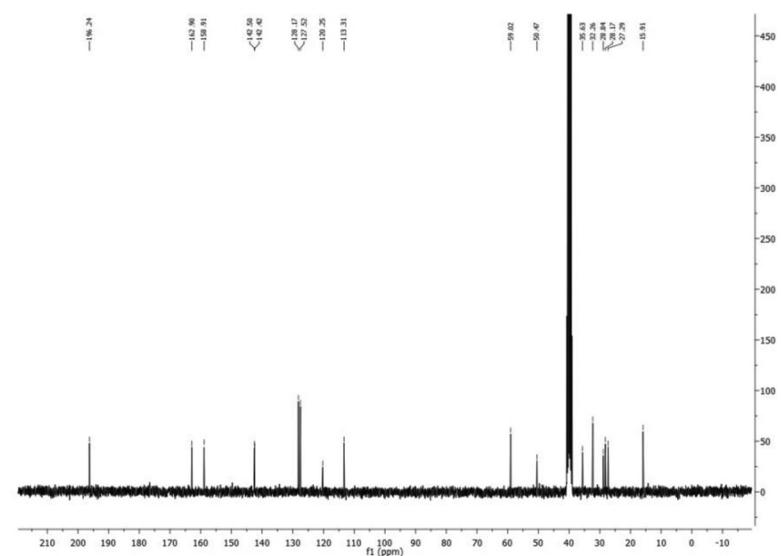
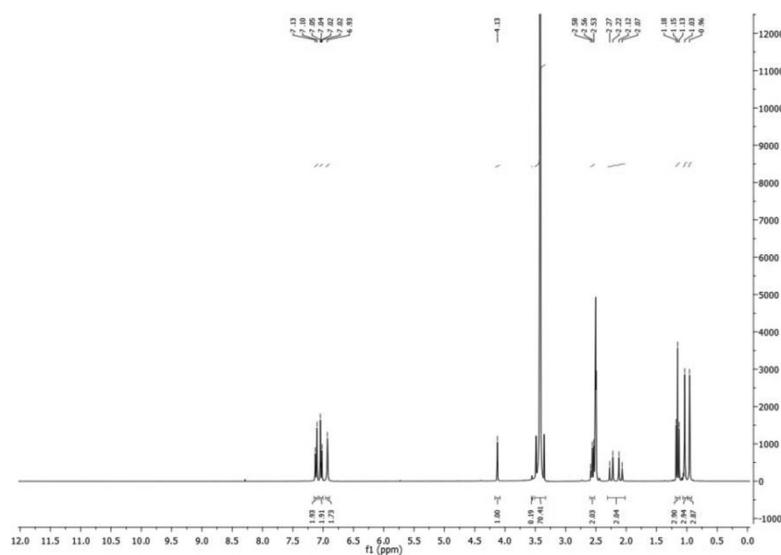


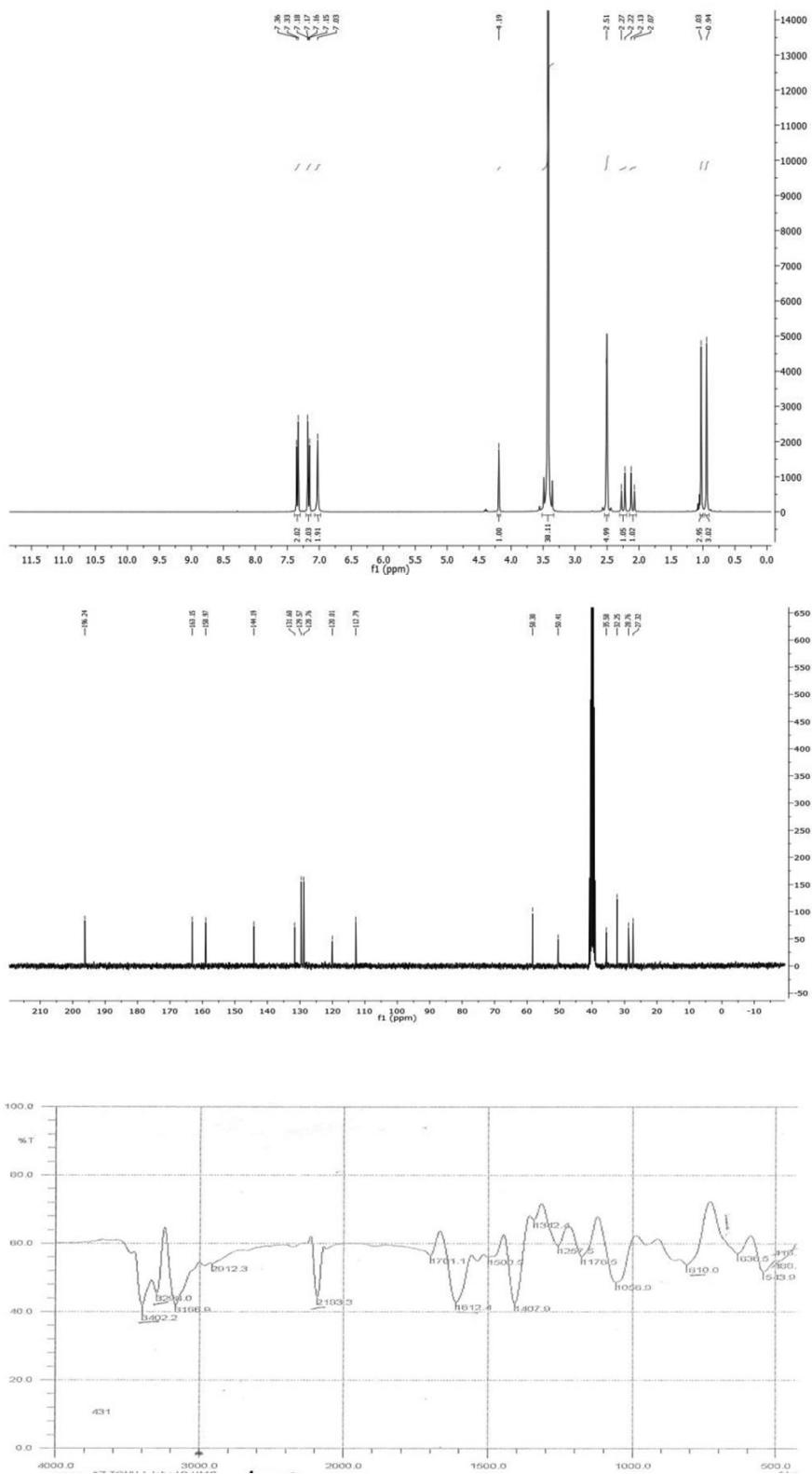
Supporting Information

1,3-dimethyl imidazolium dimethylphosphate [DMImd-DMP] :

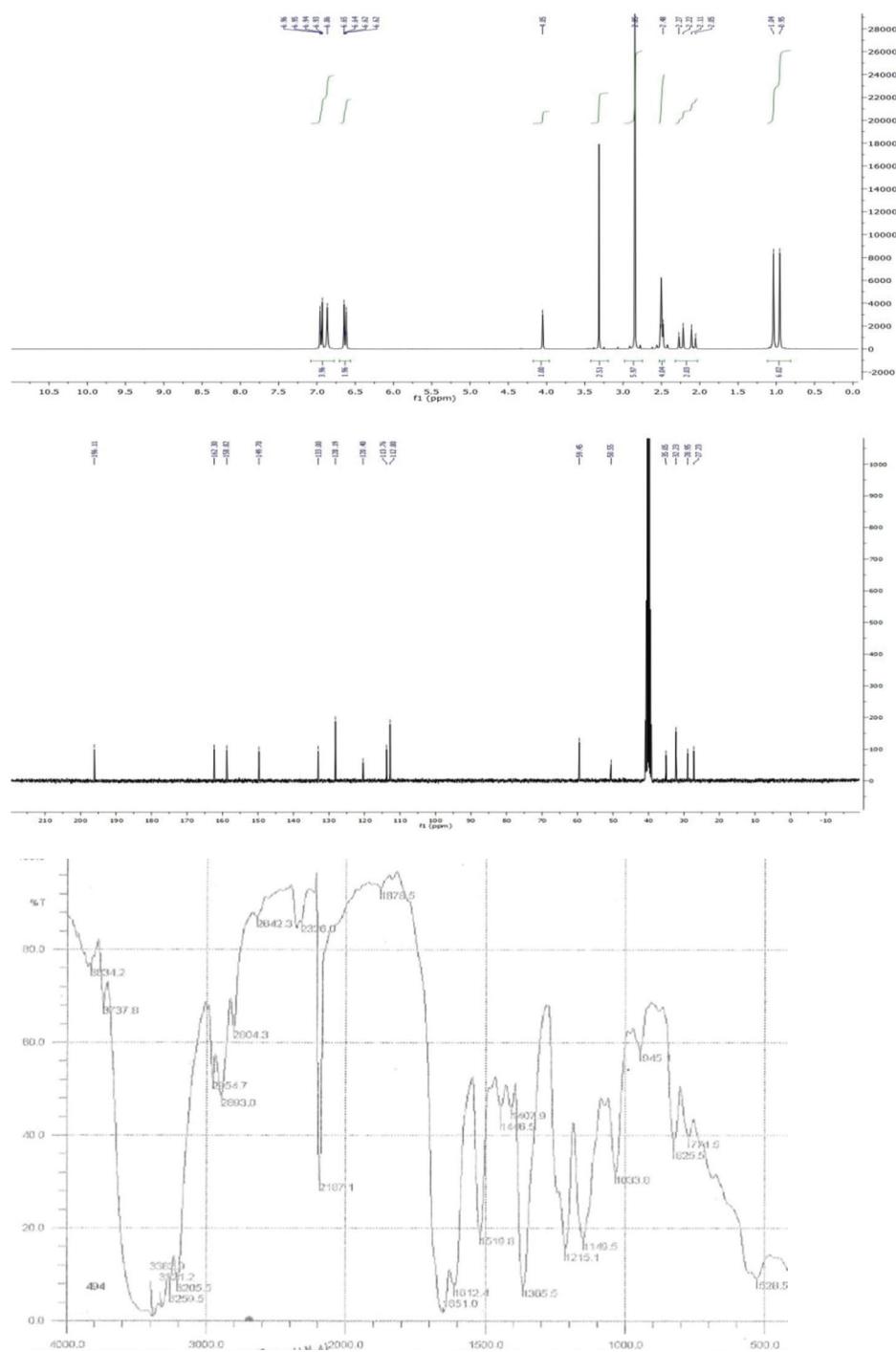


4H-benzo-[b]pyrans spectra :**2-amino-7,7-dimethyl-5-oxo-4-(4-ethylphenyl)-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile:**

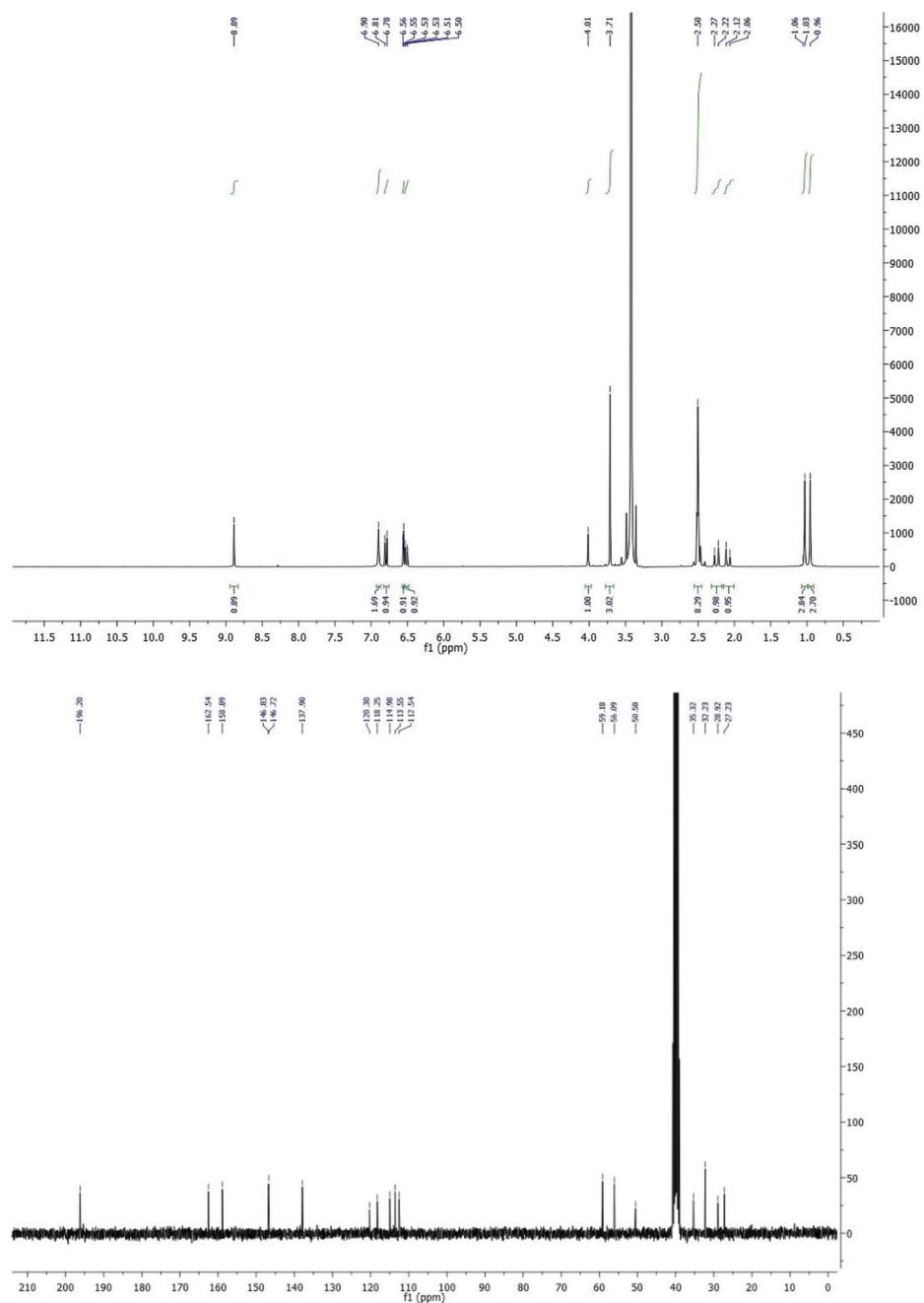
2-amino-7,7-dimethyl-5-oxo-4-(4-chlorophenyl)-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile:



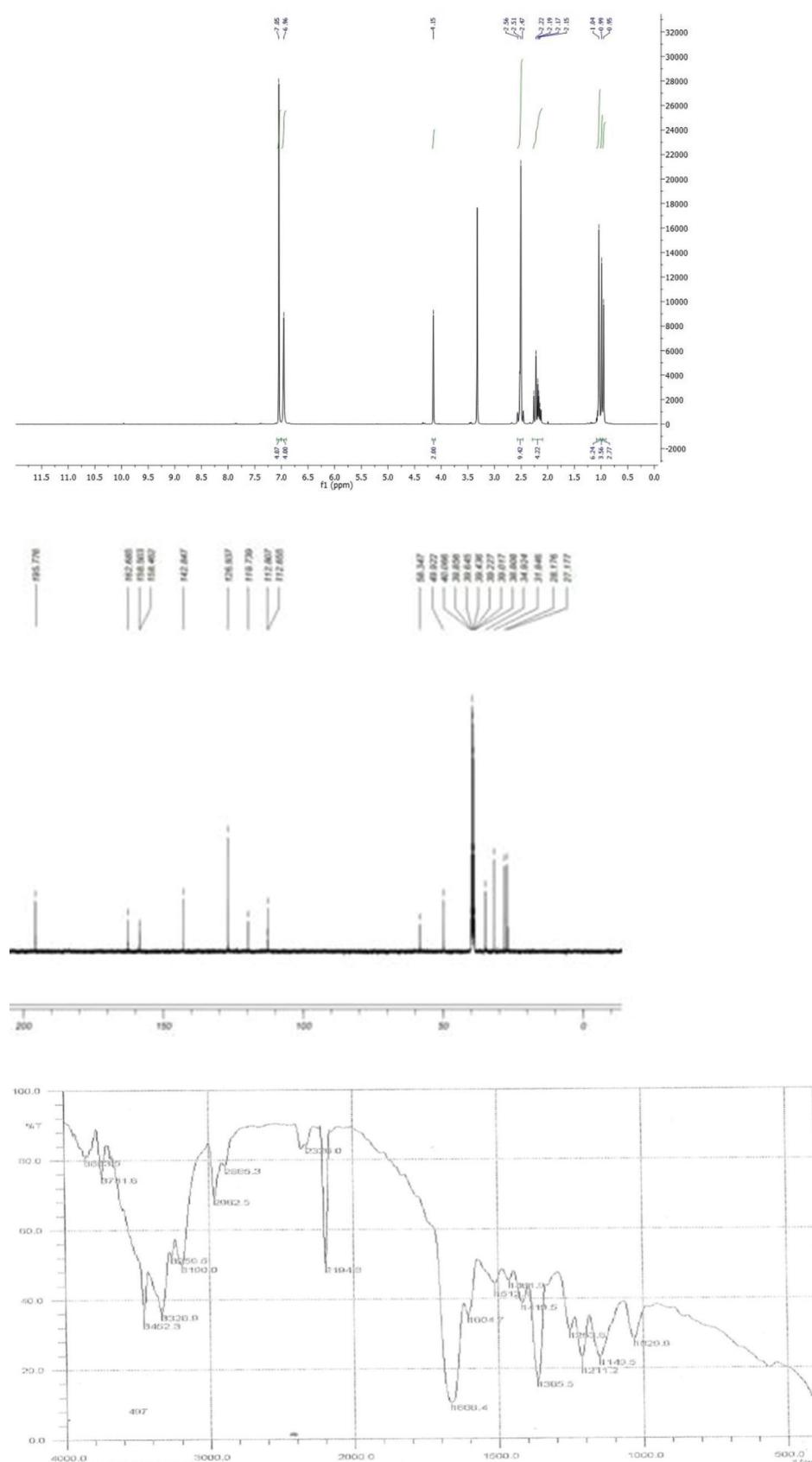
2-amino-7,7-dimethyl-5-oxo-4-(4-dimethylaminophenyl)-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile:



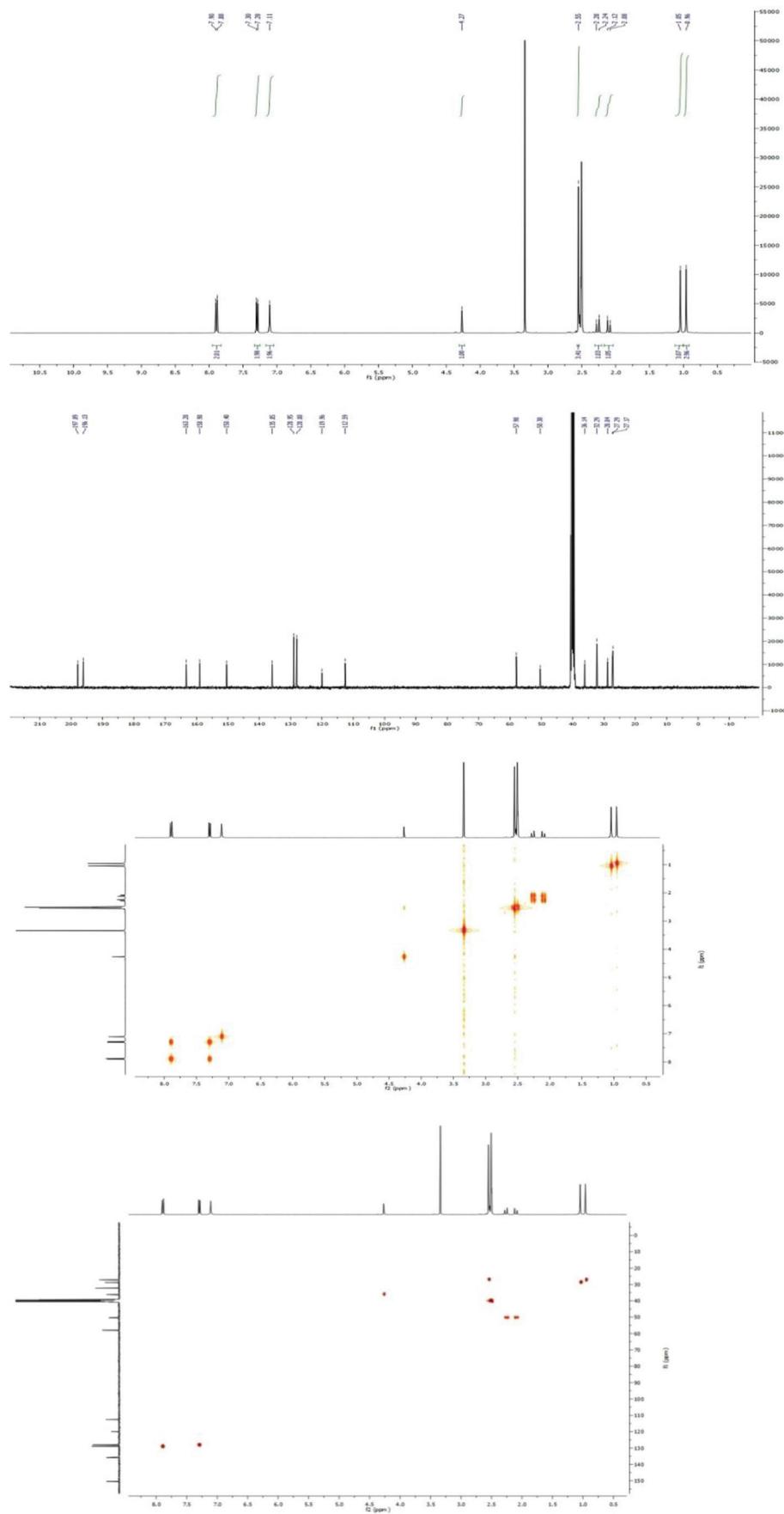
2-amino-7,7-dimethyl-5-oxo-4-(3-hydroxy-4-methoxyphenyl)-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile:

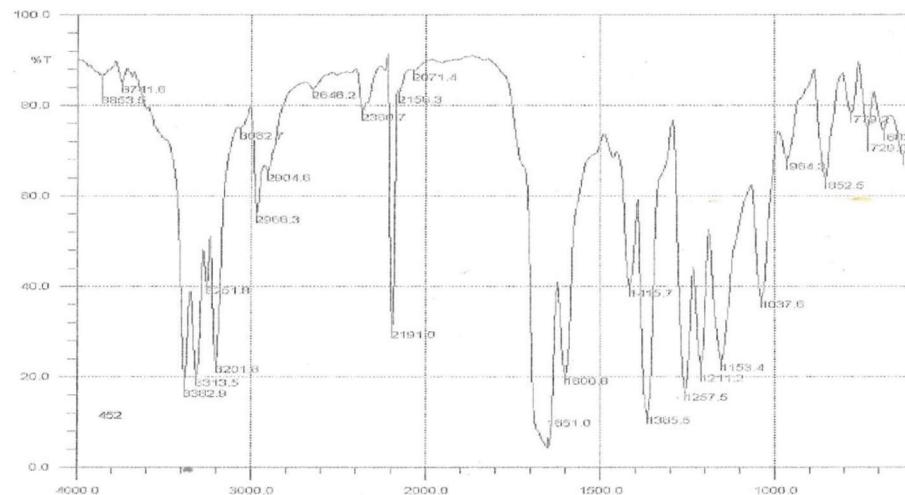
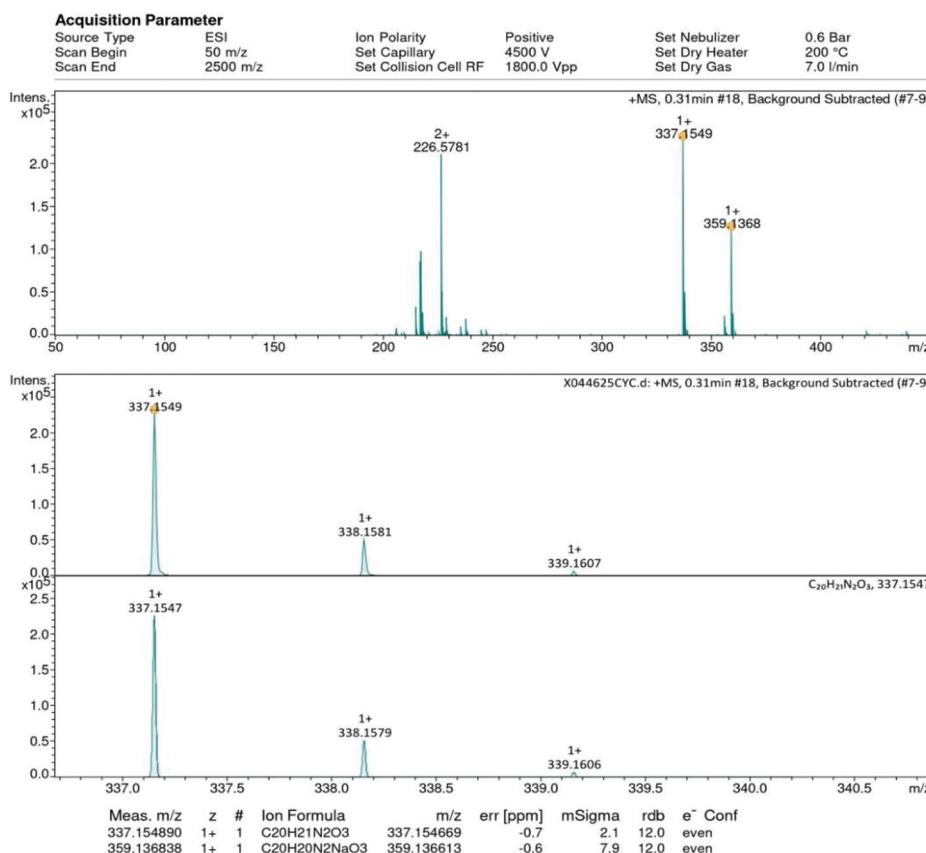


4,4'-(1,4-phenylene)bis(2-amino-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile)

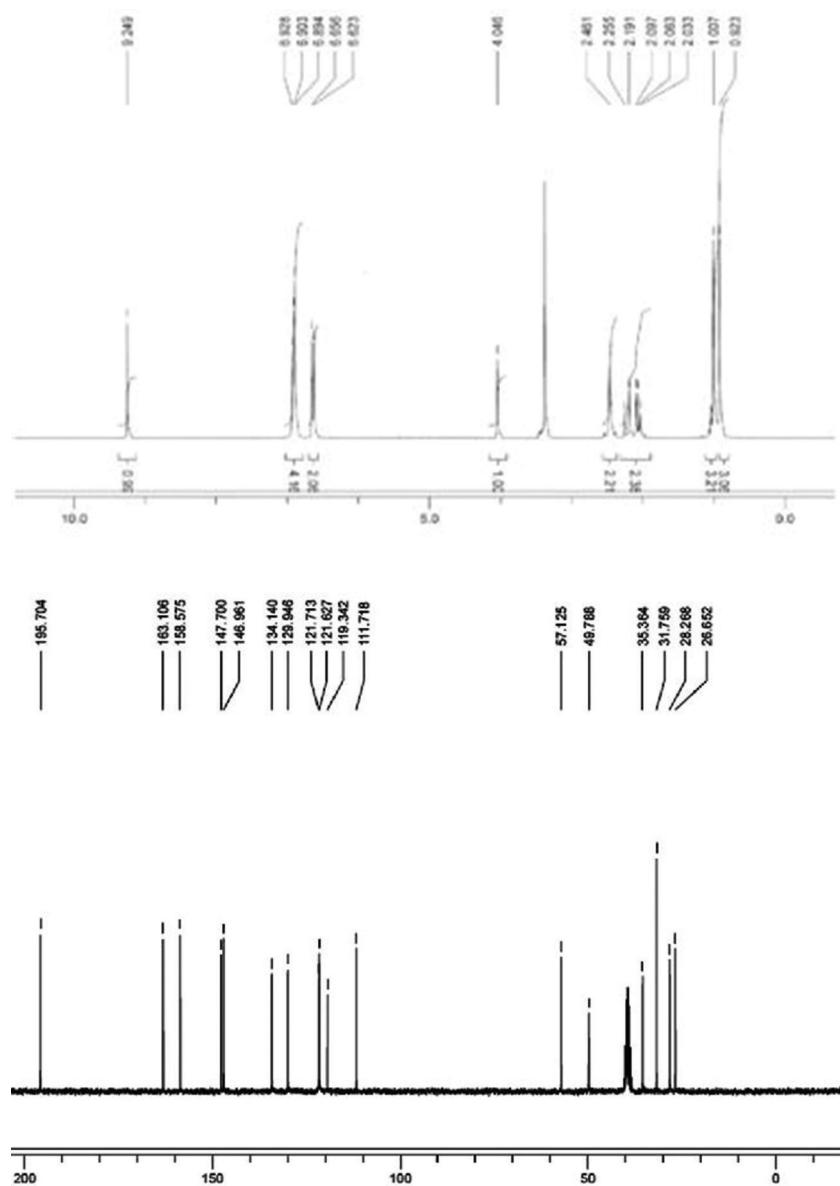


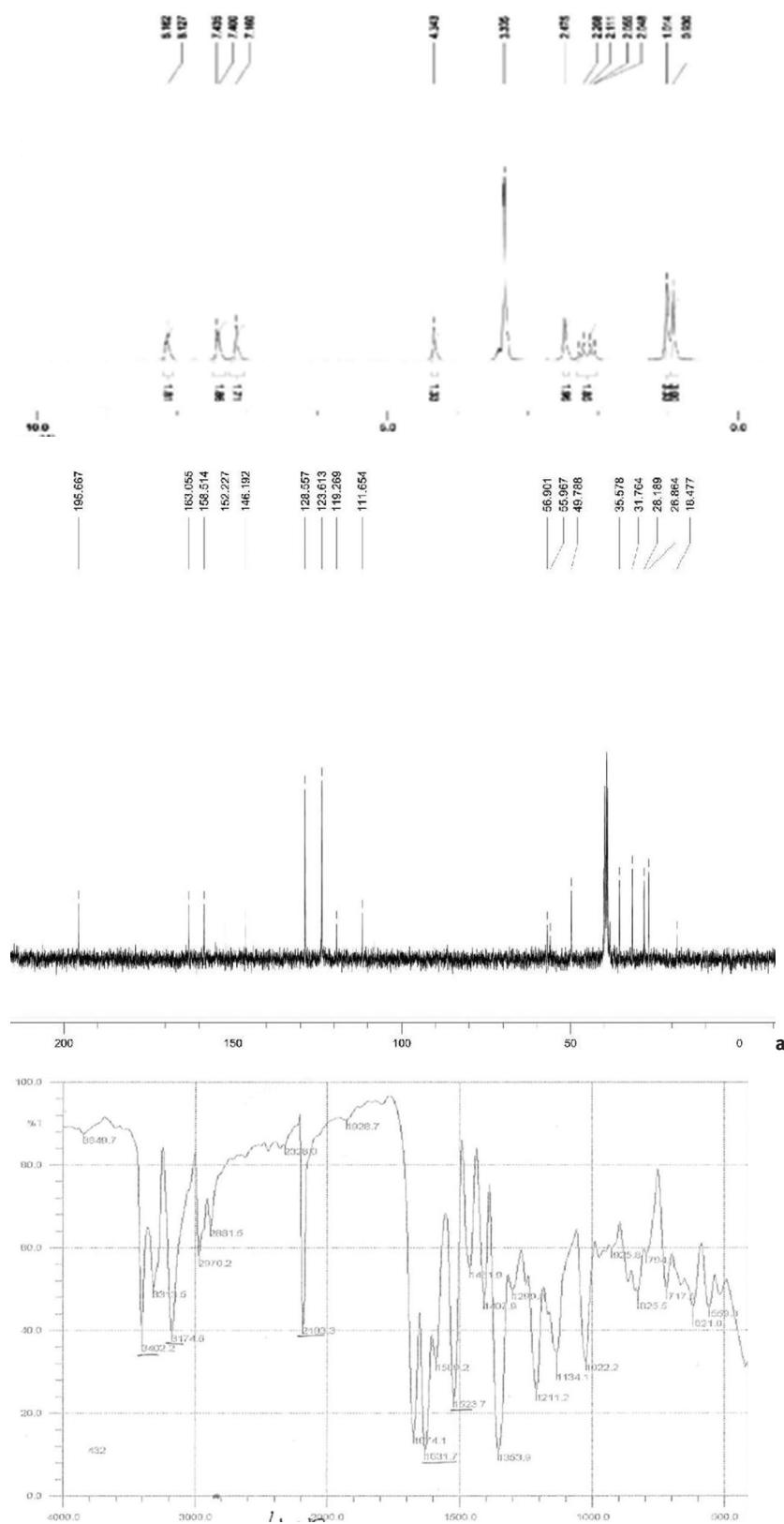
2-amino-7,7-dimethyl-5-oxo-4-(4-acetylphenyl)-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile:



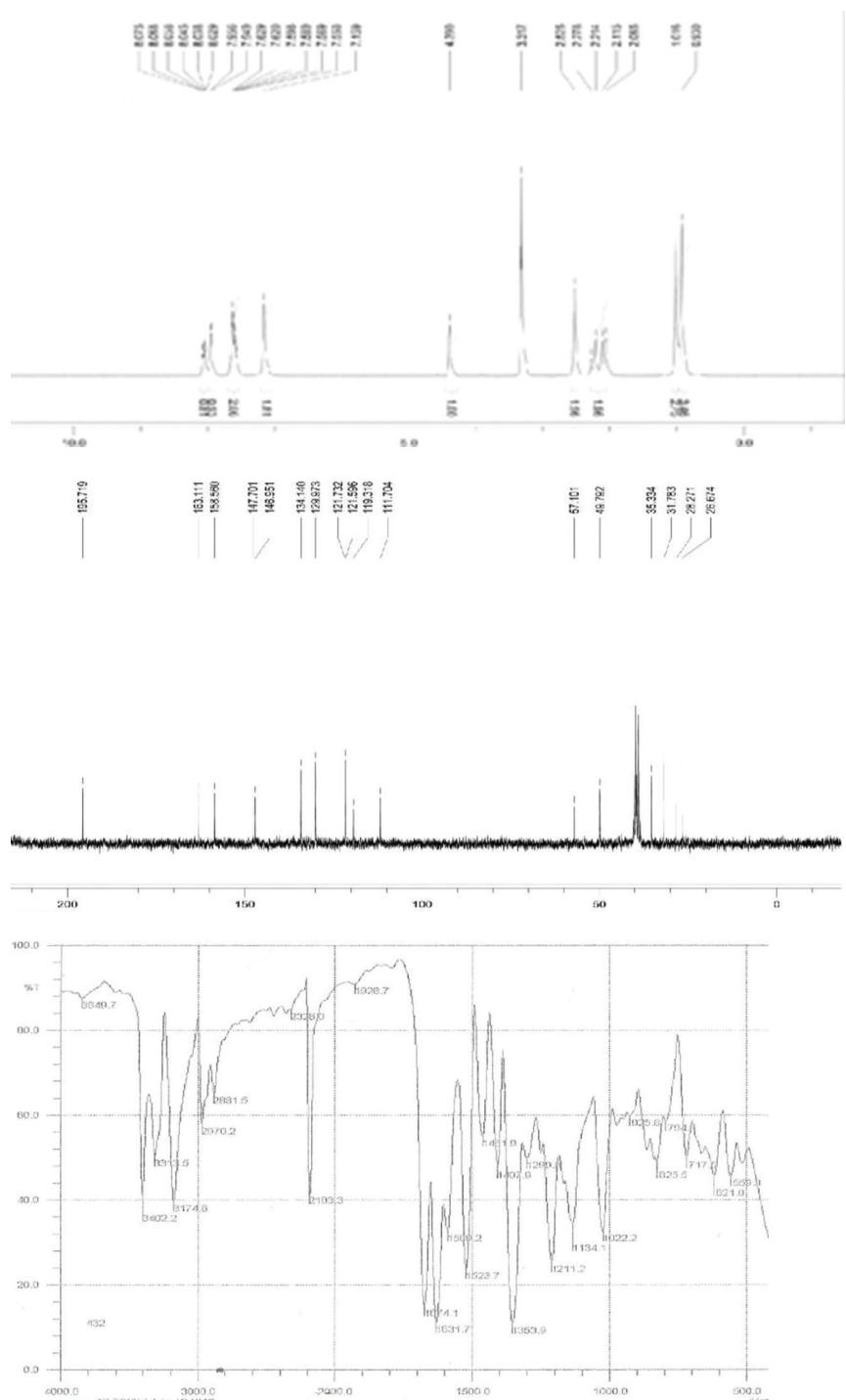


2-amino-7,7-dimethyl-5-oxo-4-(4-hydroxyphenyl)-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile:

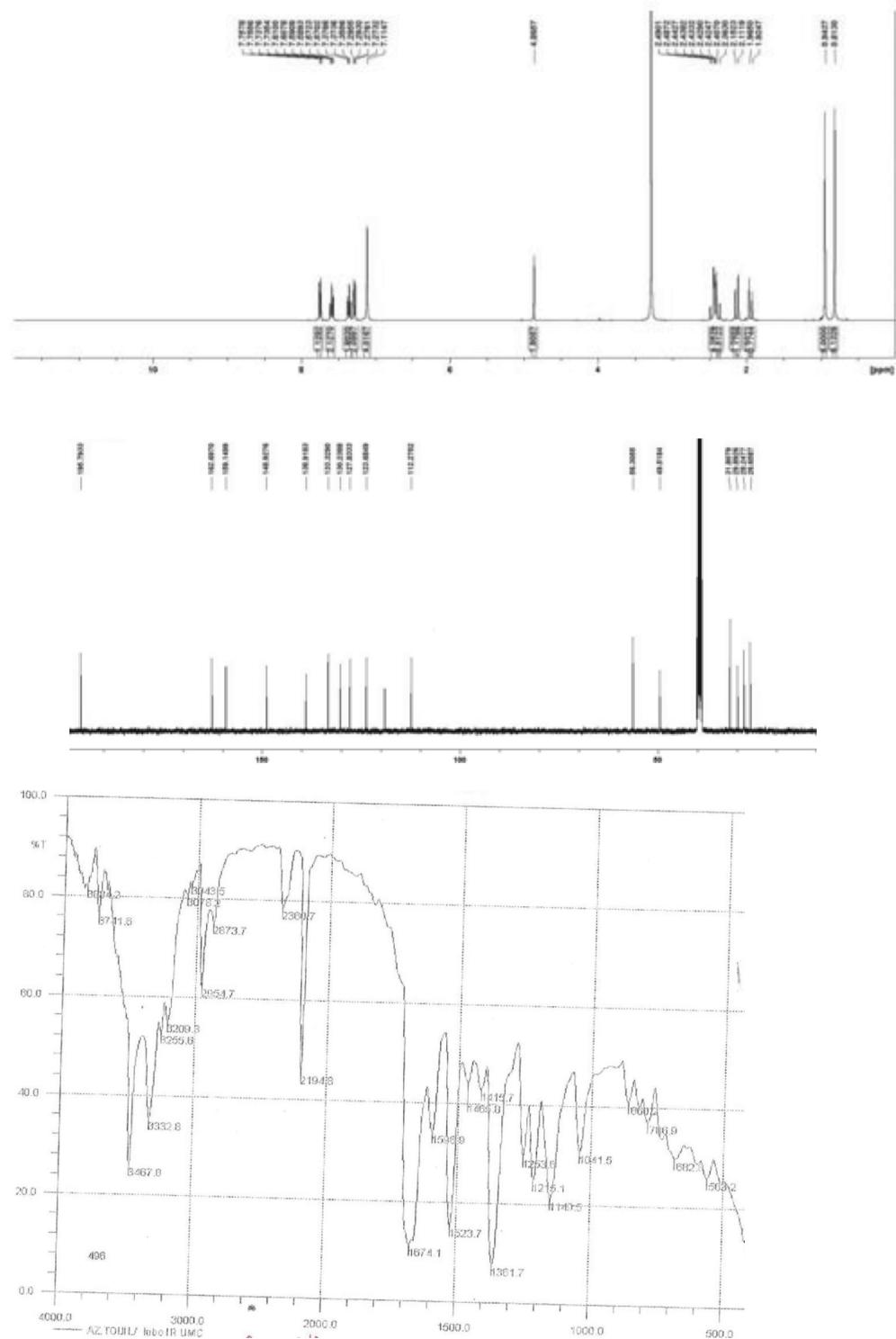


2-amino-7,7-dimethyl-5-oxo-4-(4-nitrophenyl)-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile:

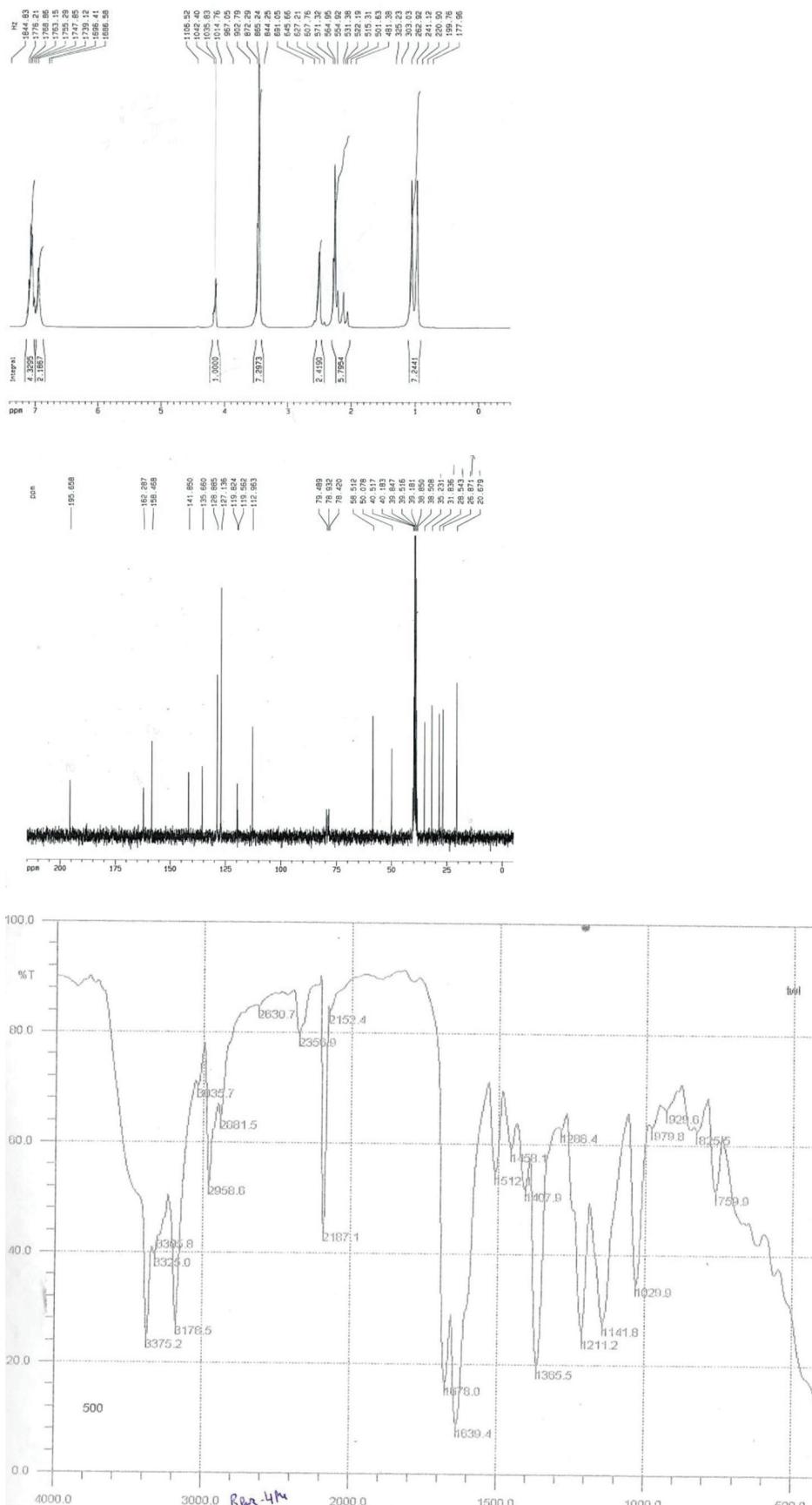
2-amino-7,7-dimethyl-5-oxo-4-(3-nitrophenyl)-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile:

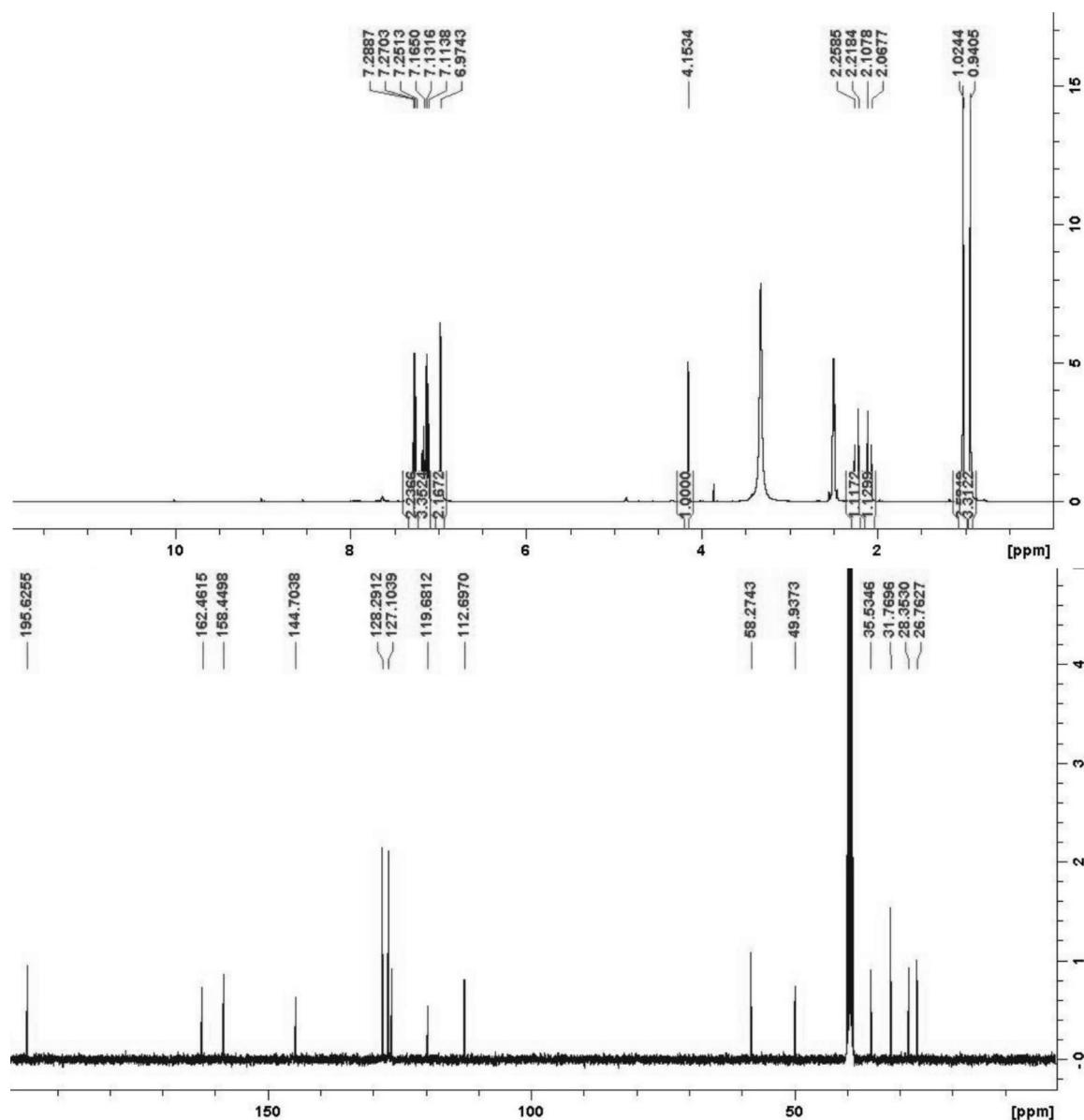


2-amino-7,7-dimethyl-5-oxo-4-(2-nitrophenyl)-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile:



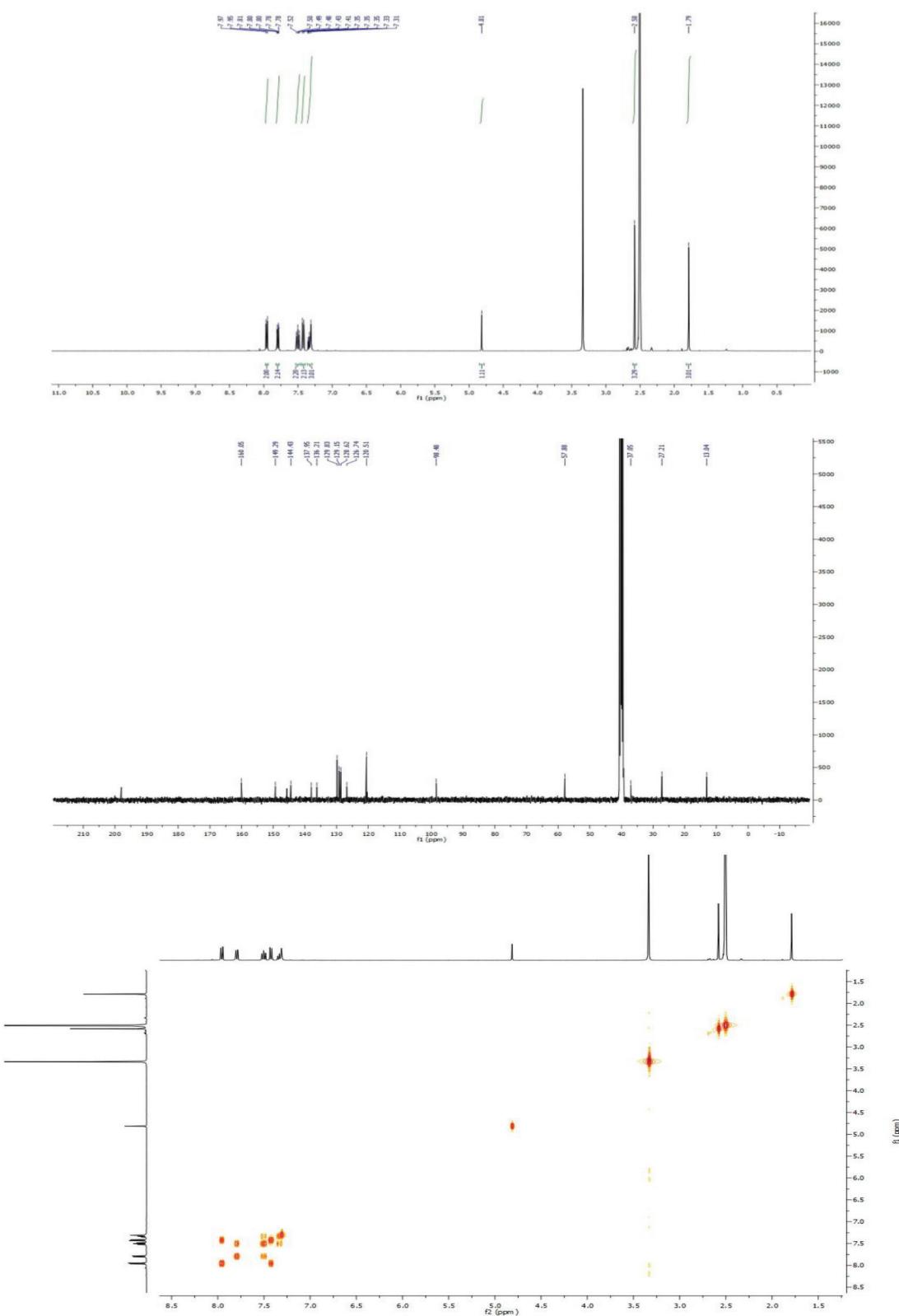
2-amino-7,7-dimethyl-5-oxo-4-(*p*-tolyl)-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile:

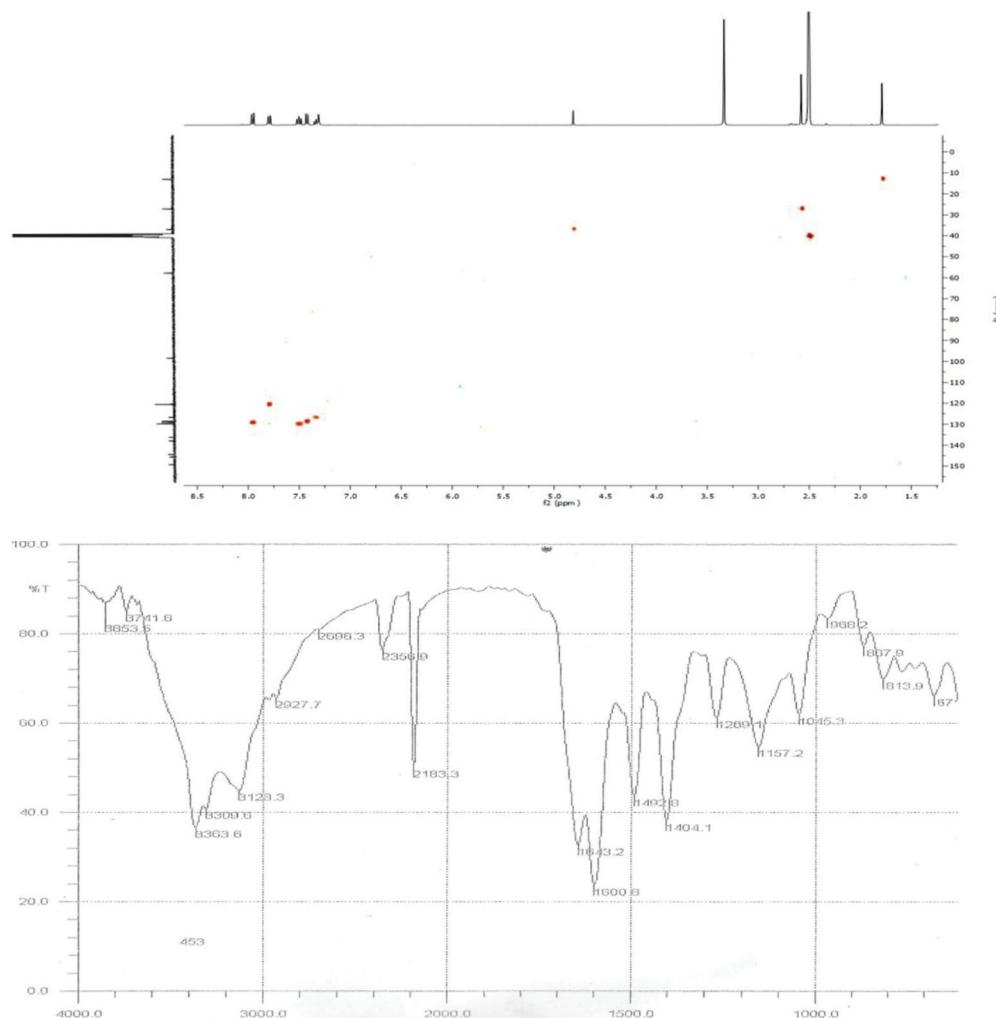


2-amino-7,7-dimethyl-5-oxo-4-phenyl-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile:

1-phenyl dihydropyrano[2,3-c]pyrazole spectra :

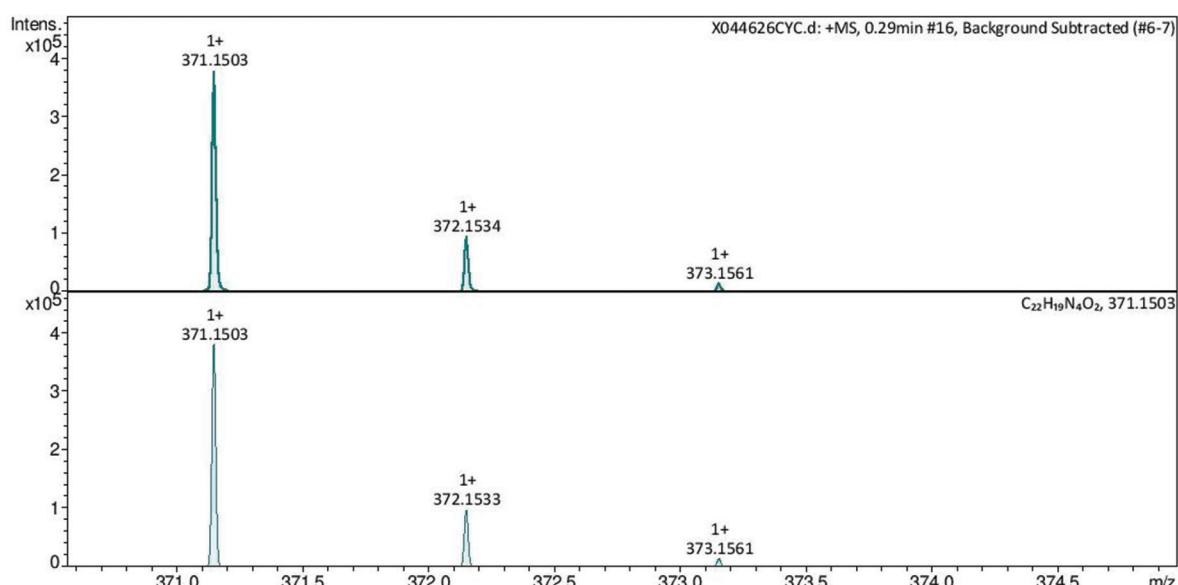
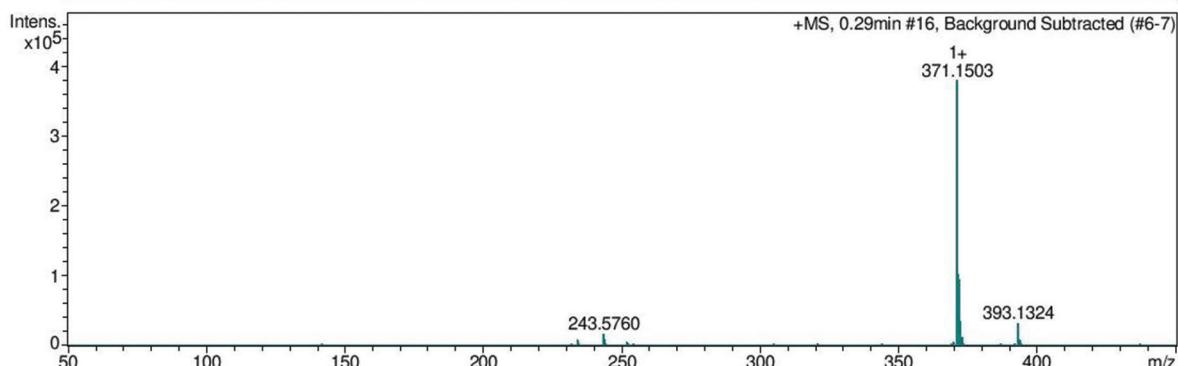
6-amino-3-methyl-1-phenyl-4-(4-acetylphenyl)-1,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile



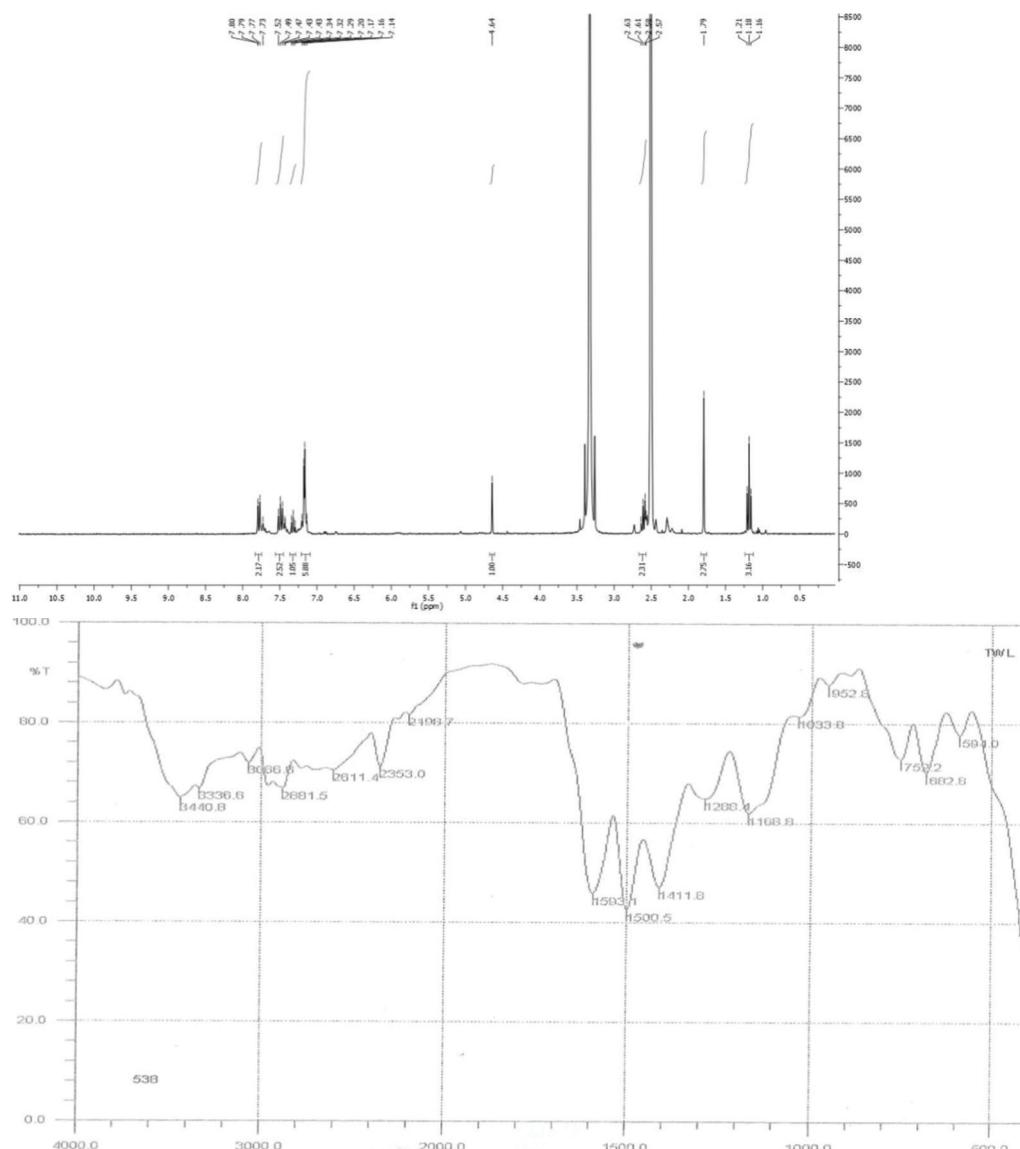


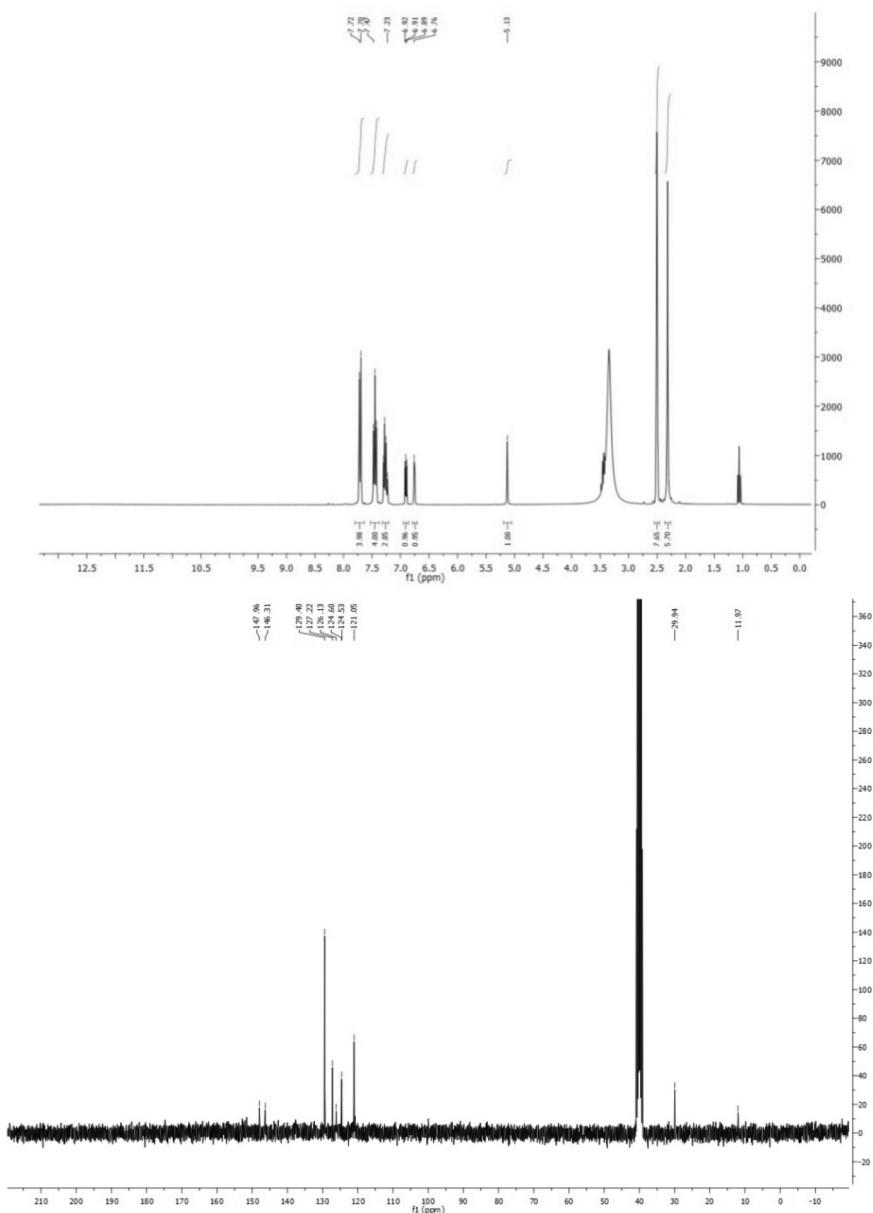
Acquisition Parameter

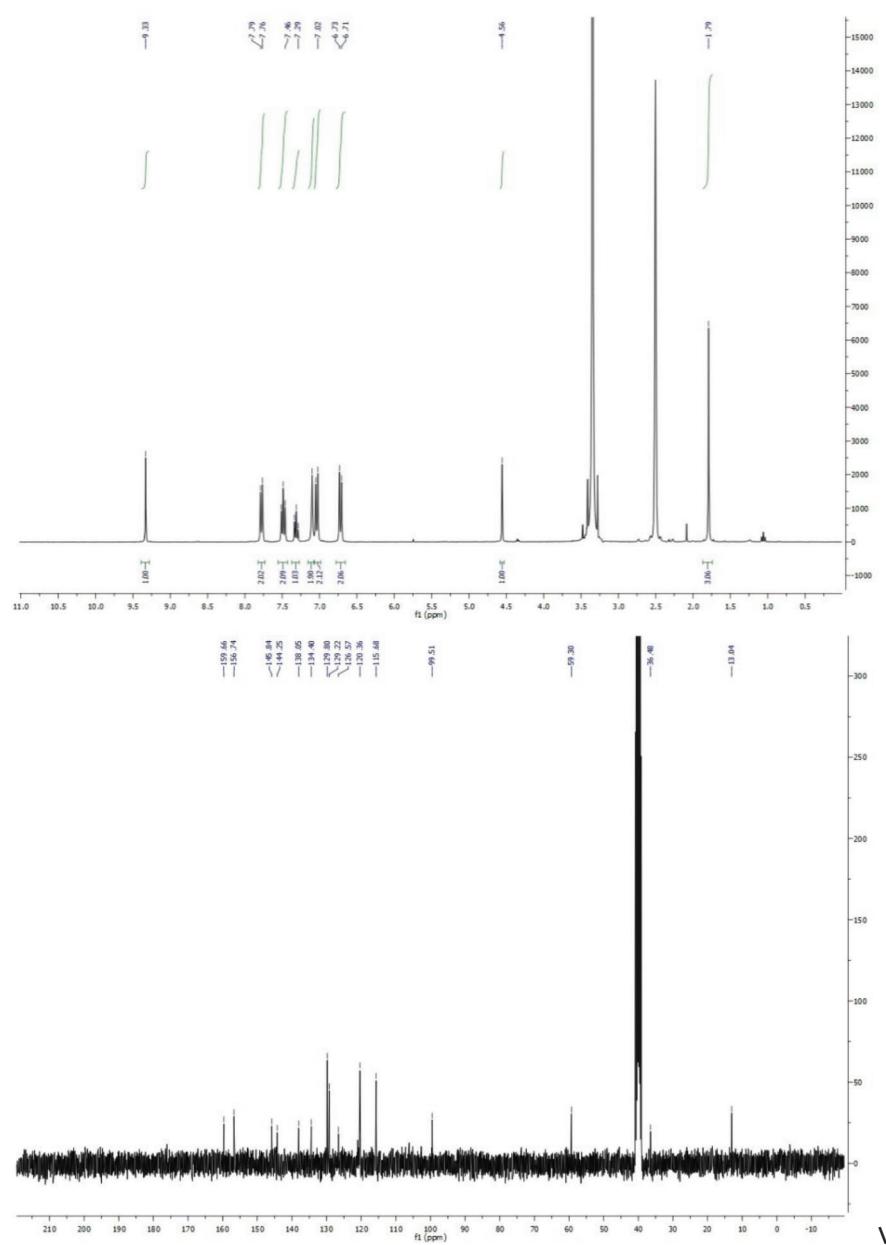
Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.6 Bar
Scan Begin	50 m/z	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan End	2500 m/z	Set Collision Cell RF	1800.0 Vpp	Set Dry Gas	7.0 l/min



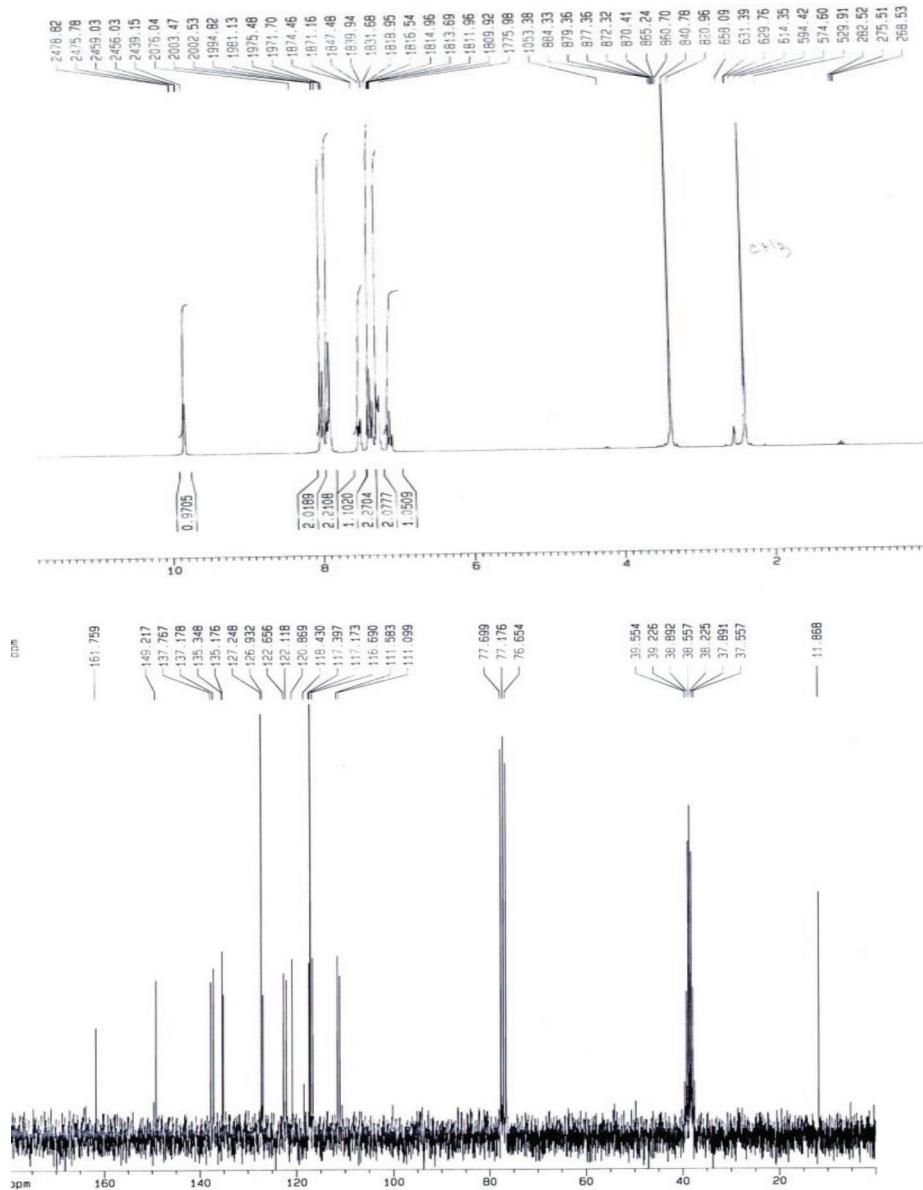
Meas. m/z	z	#	Ion Formula	m/z	err [ppm]	mSigma	rdb	e ⁻ Conf
371.150344	1+	1	C ₂₂ H ₁₉ N ₄ O ₂	371.150252	-0.2	3.0	16.0	even
393.132428	1+	1	C ₂₂ H ₁₈ N ₄ NaO ₂	393.132197	-0.6	11.0	16.0	even

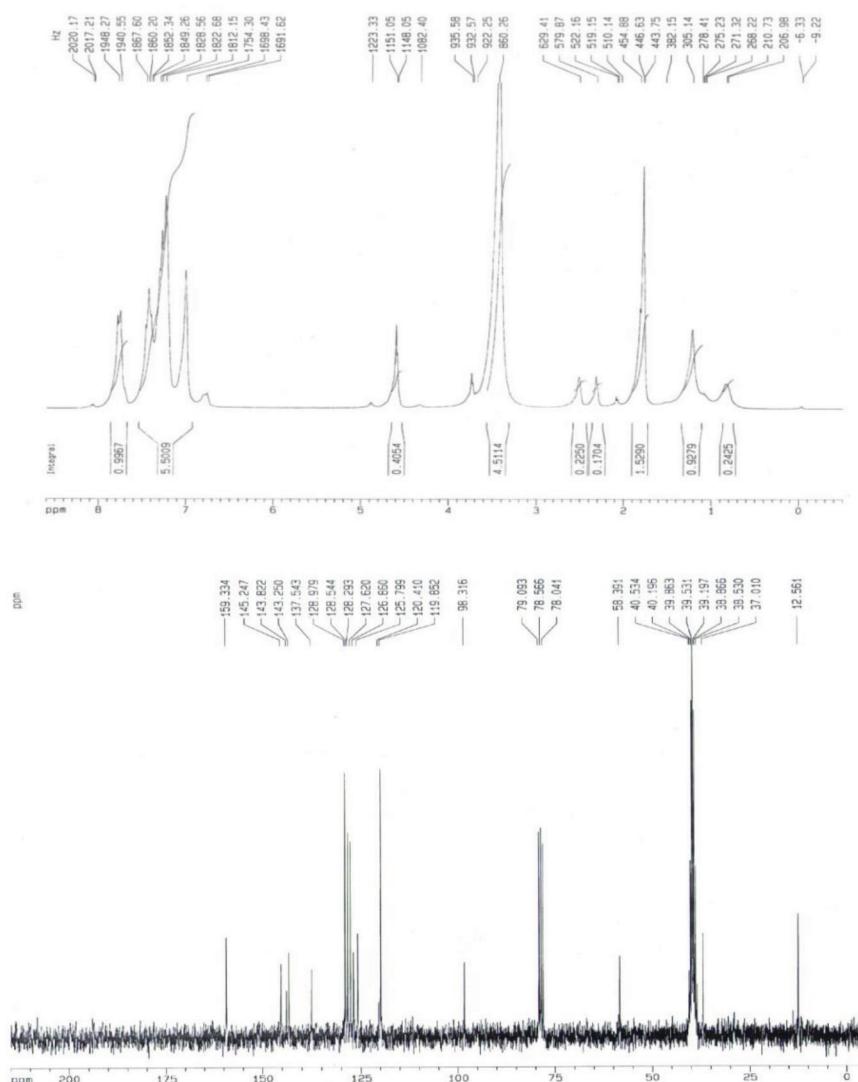
6-amino-3-methyl-1-phenyl-4-(4-ethylphenyl)-1,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile

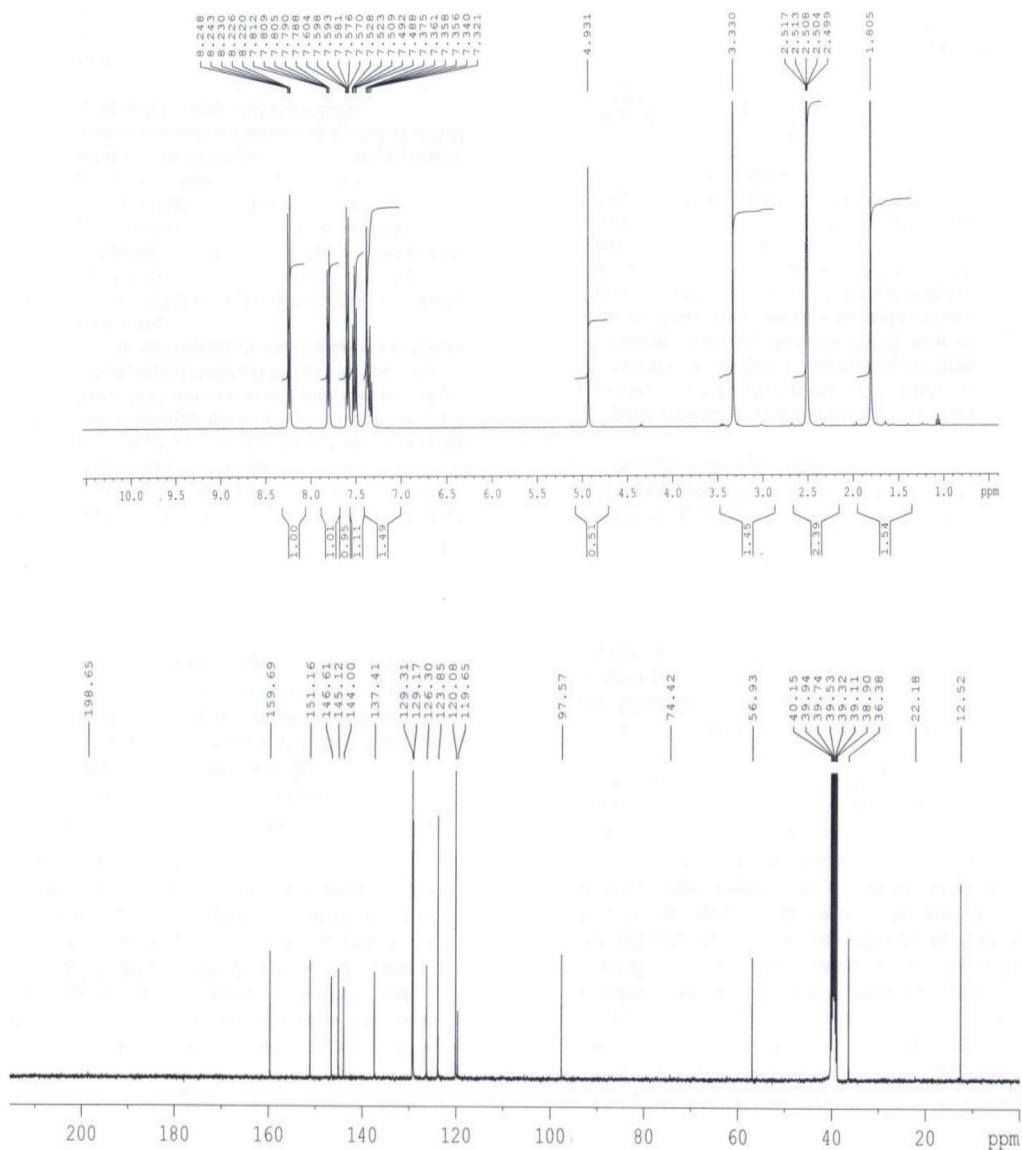
6-amino-3-methyl-1-phenyl-4-(2-thienyl)-1,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile

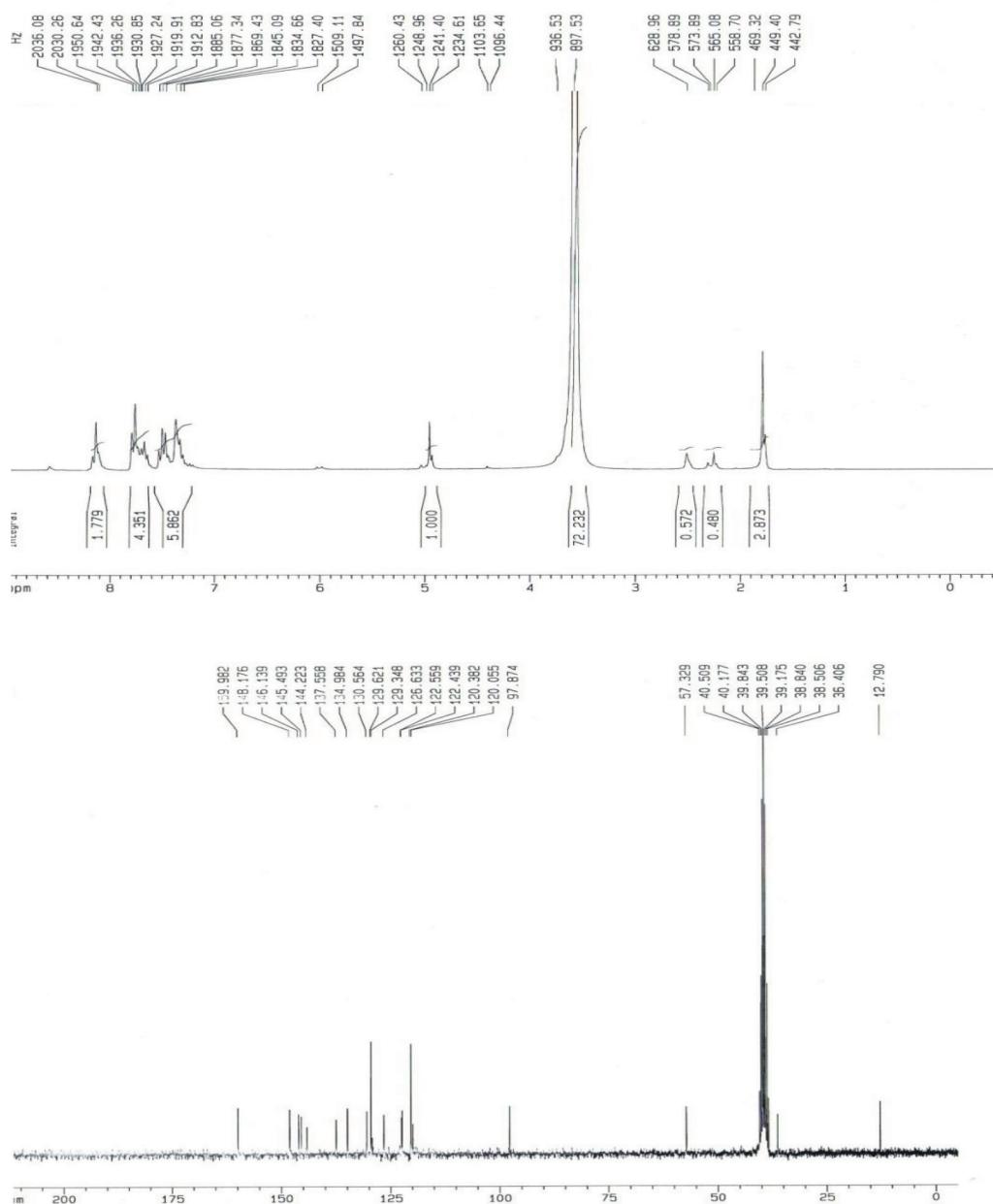
6-amino-3-methyl-1-phenyl-4-(4-hydroxyphenyl)-1,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile

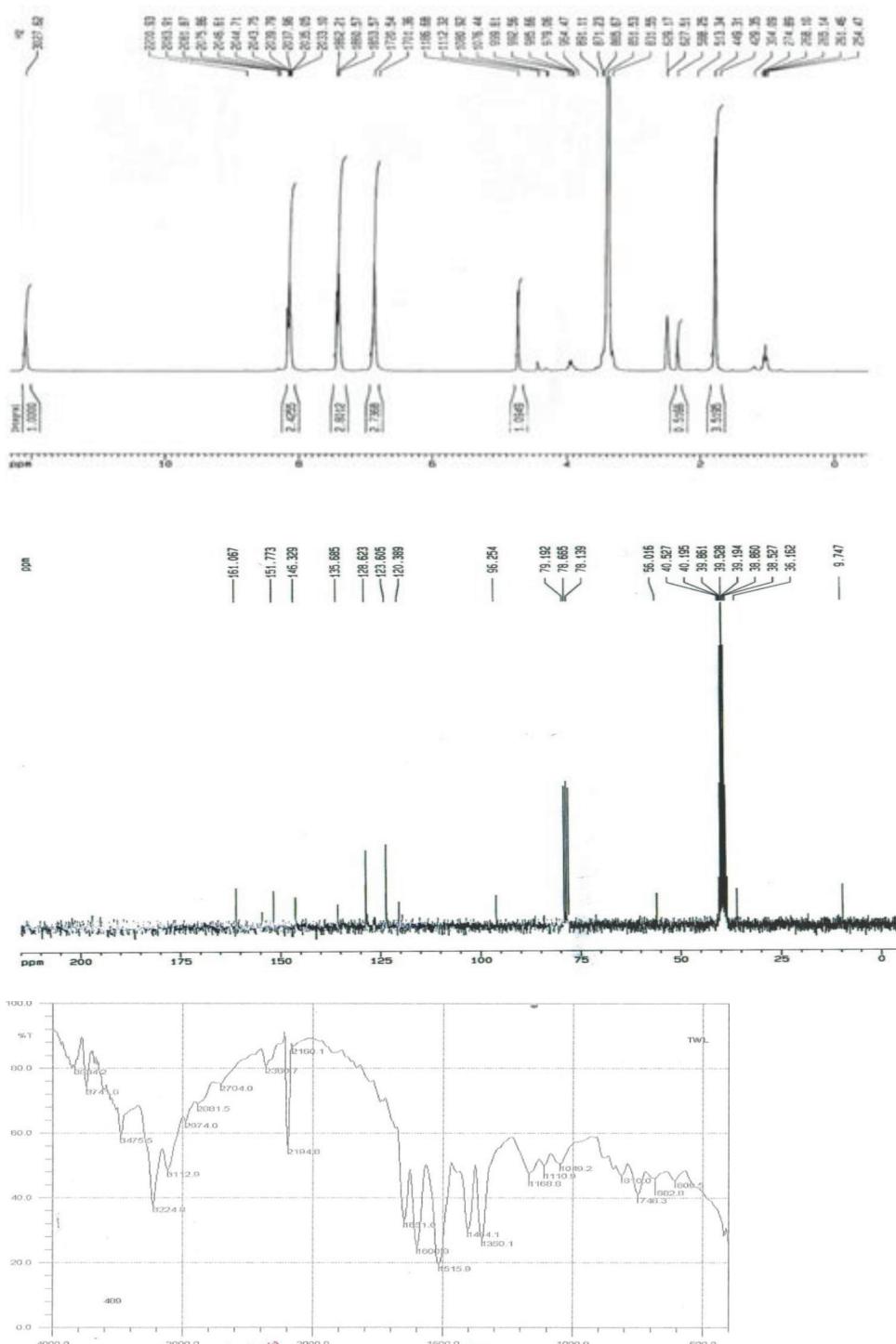
6-amino-3-methyl-1-phenyl-4-(1*H*-indol-3-yl)-1,4-dihydropyrano[2,3-*c*]pyrazole-5-carbonitrile



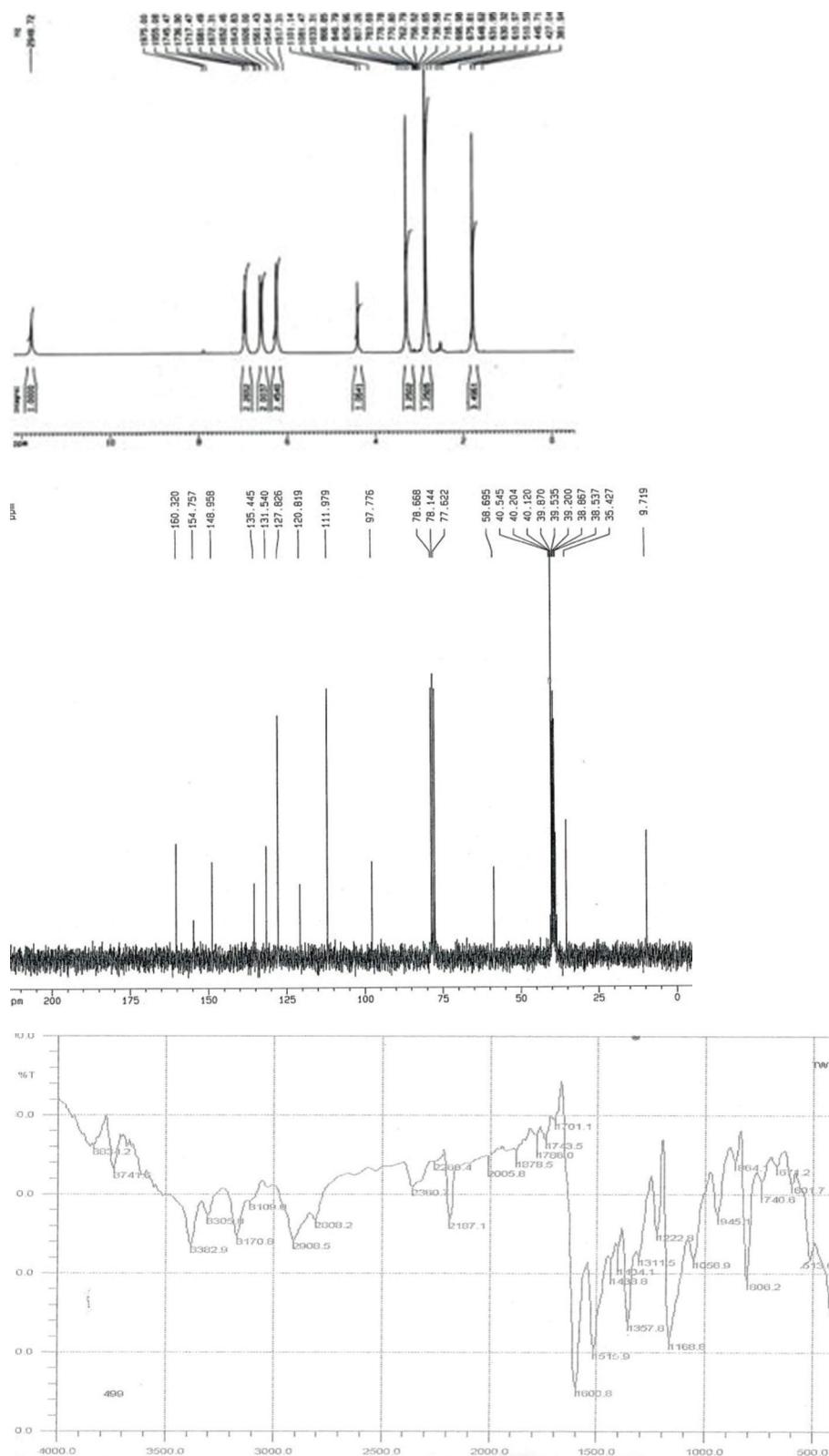
6-amino-3-methyl-1-phenyl-4-phenyl-1,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile

6-amino-3-methyl-1-phenyl-4-(4-nitrophenyl)-1,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile

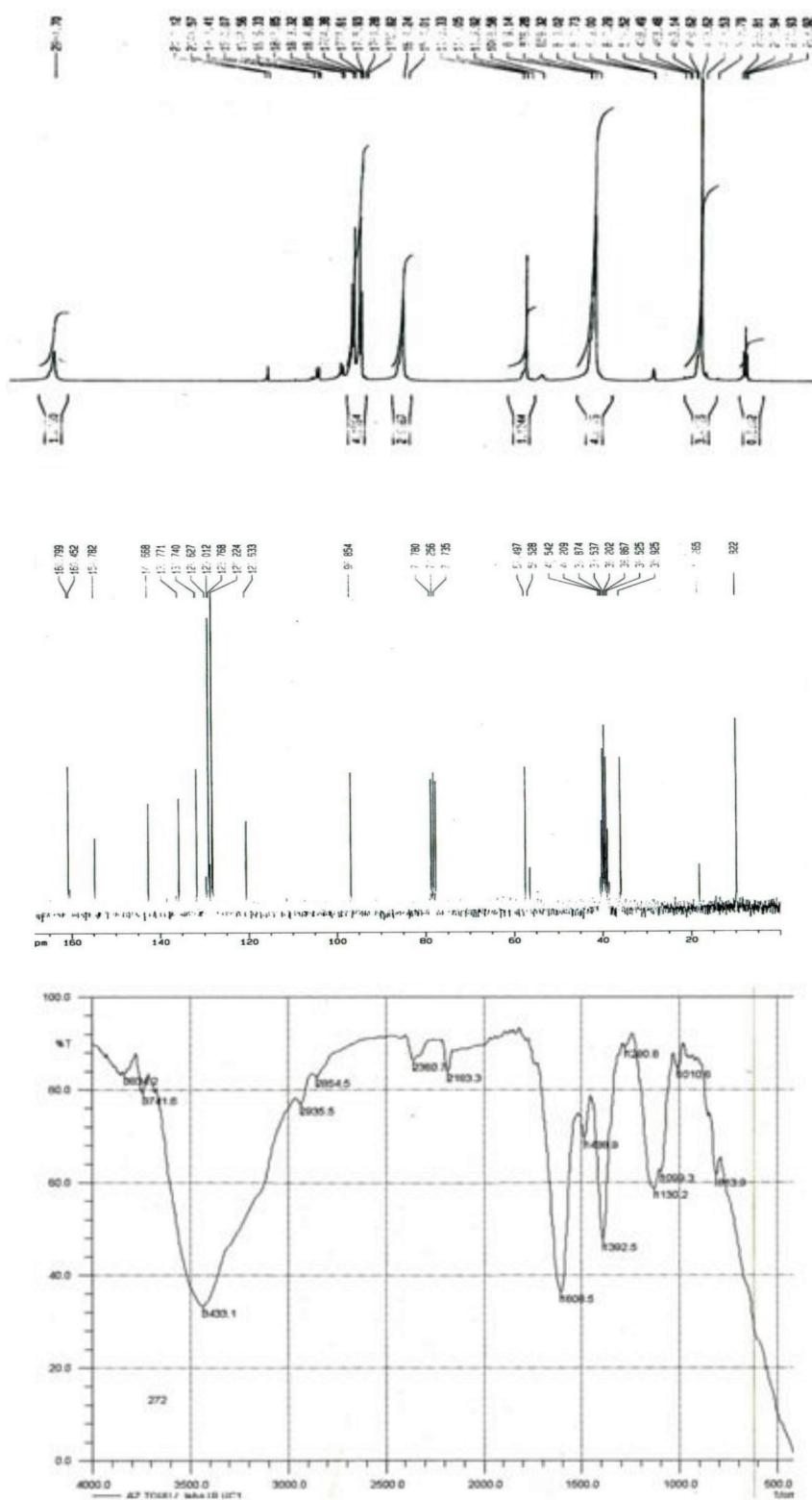
6-amino-3-methyl-1-phenyl-4-(3-nitrophenyl)-1,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile

dihydropyrano[2,3-c]pyrazole spectra :**6-amino-3-methyl-4-(4-nitrophenyl)-2,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile**

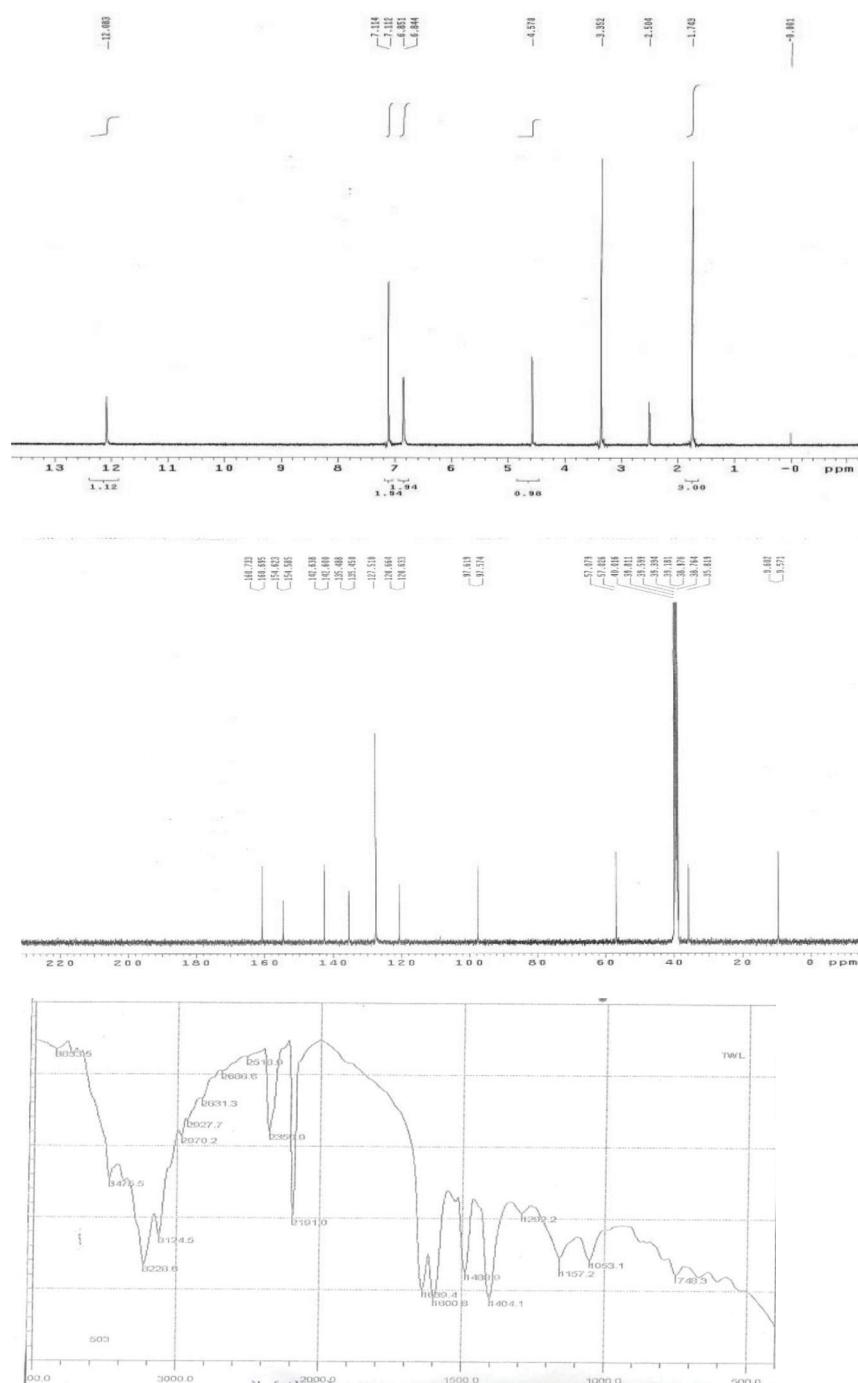
6-amino-3-methyl-4-(4-dimethylaminophenyl)-2,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile

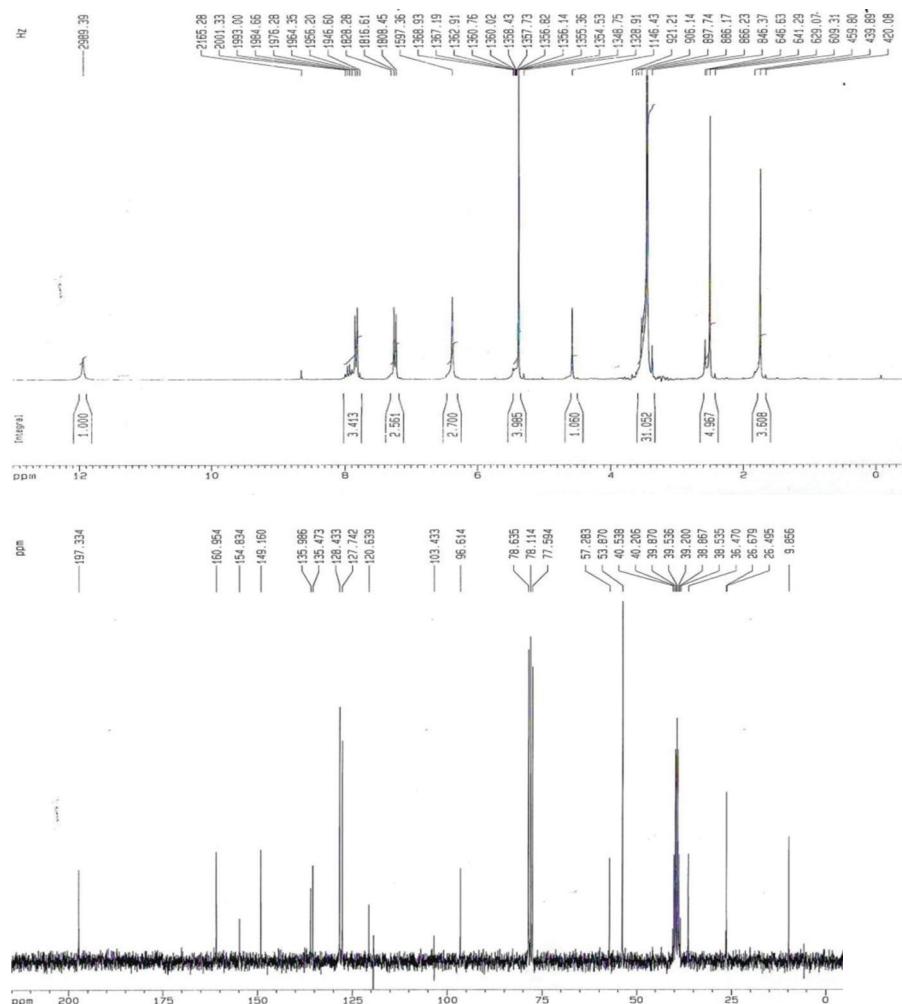


6-amino-3-methyl-4-(4-chlorophenyl)-2,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile



4,4'-(1,4-phenylene)bis(6-amino-3-methyl-2,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile)



6-amino-3-methyl-4-(p-formylphenyl)-2,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile

6-amino-3-methyl-4-(p-tolylphenyl)-2,4-dihydropyrano[2,3-c]pyrazole-5-carbonitrile