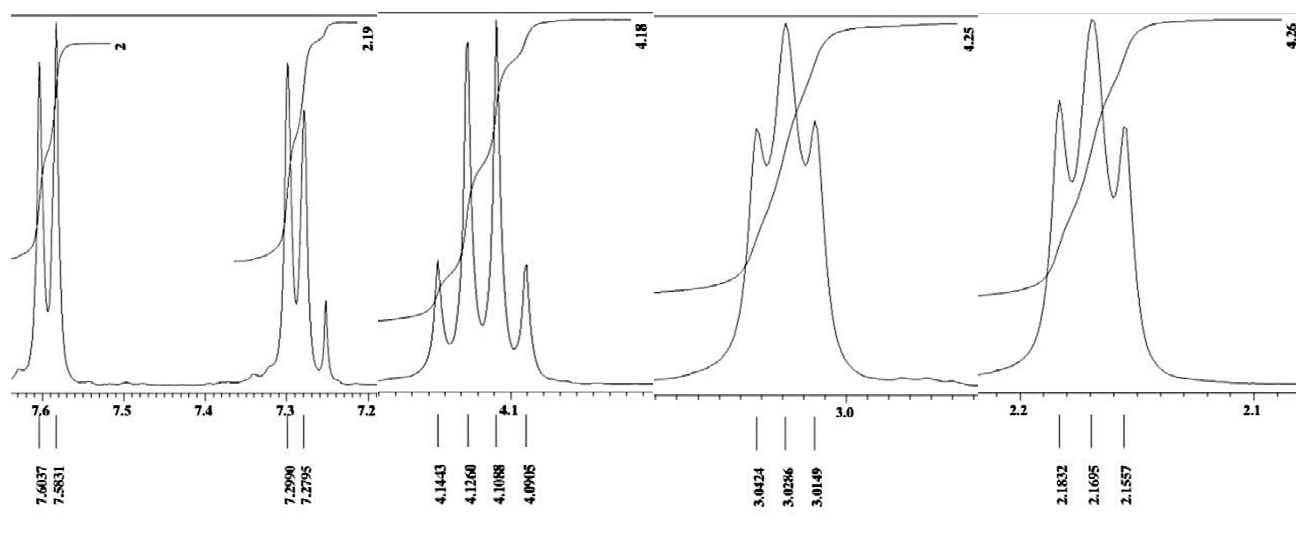
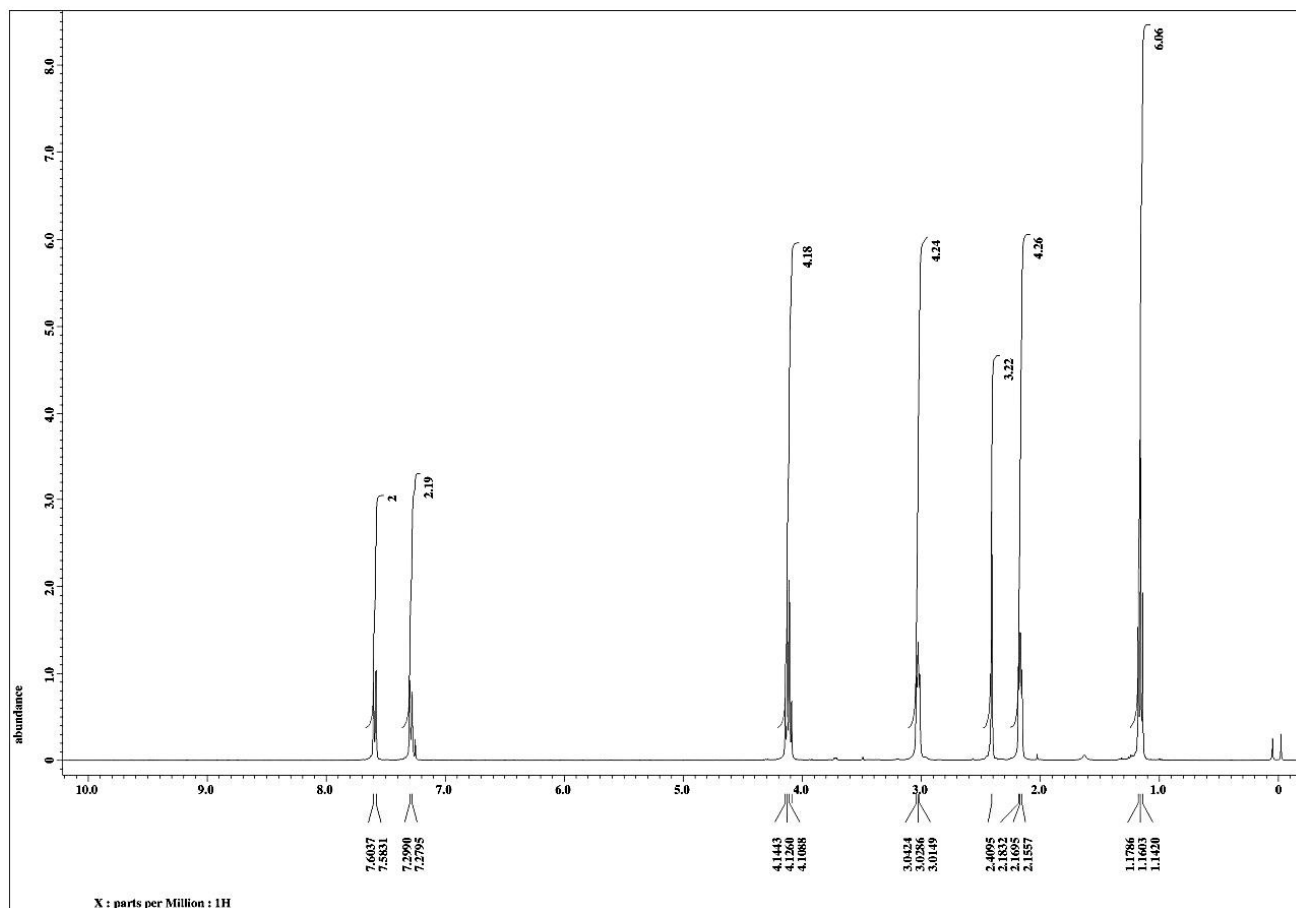
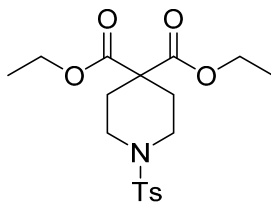


Supplementary

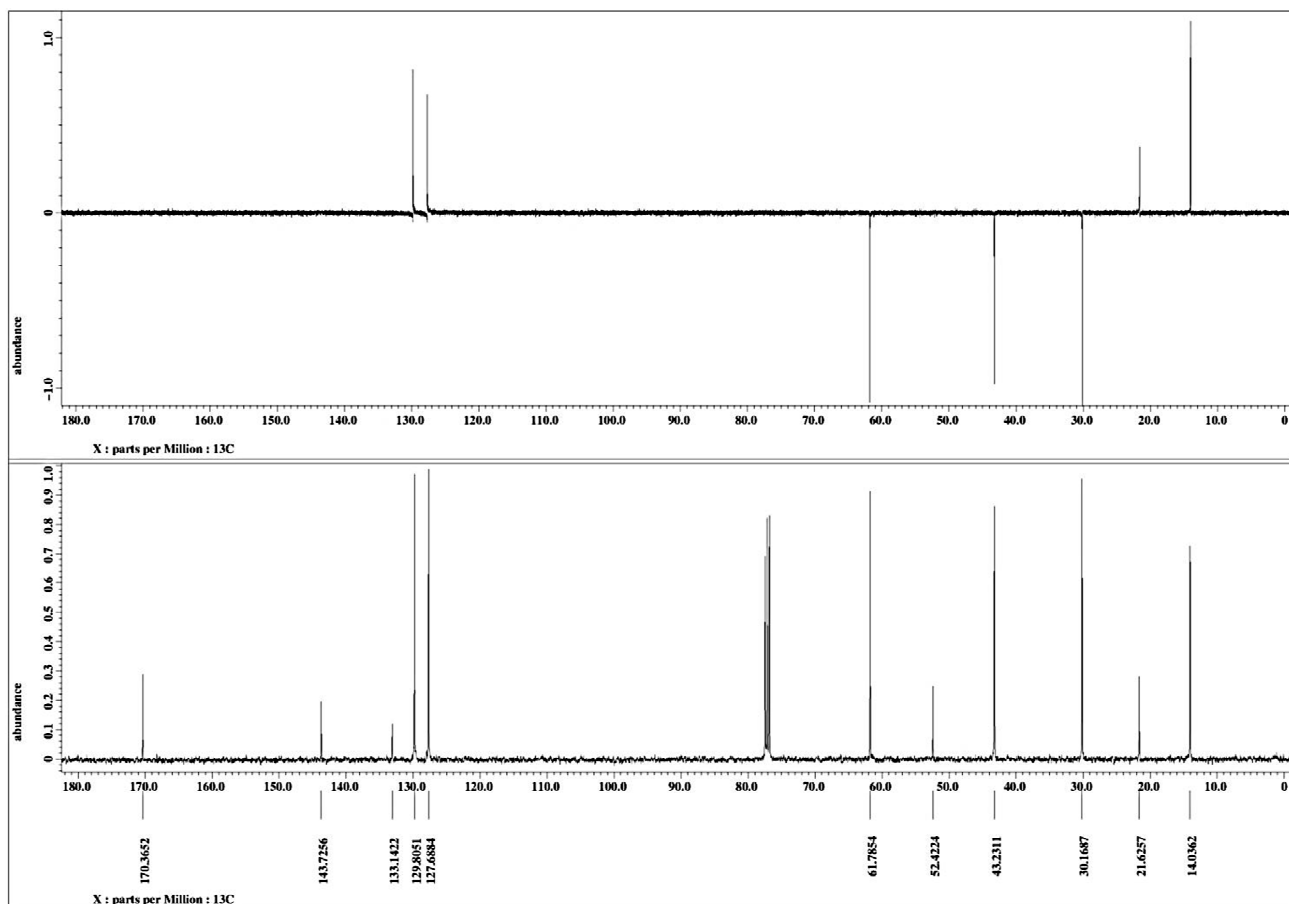
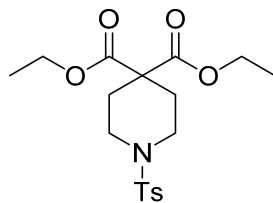
¹H-NMR (400 MHz) and ¹³C-NMR (100 MHz) Spectra

Diethyl 1-(4-methylbenzene-1-sulfonyl)piperidine-4,4-dicarboxylate (3)	S2
[1-(4-Methylbenzene-1-sulfonyl)]piperidine-4,4-diyl]dimethanol (4)	S4
7-(4-Methylbenzene-1-sulfonyl)-2-oxa-7-azaspiro[3.5]nonane (5)	S6
Bis(2-oxa-7-azaspiro[3.5]nonan-7-ium) ethanedioate (oxalate salt of 1b)	S8
6-(4-Bromo-2-nitrophenyl)-2-oxa-6-azaspiro[3.3]heptane (6a)	S10
7-(4-Bromo-2-nitrophenyl)-2-oxa-7-azaspiro[3.5]nonane (6b)	S12
5-Bromo-2-(2-oxa-6-azaspiro[3.3]heptan-6-yl)aniline (7a)	S14
5-Bromo-2-(2-oxa-7-azaspiro[3.5]nonan-7-yl)aniline (7b)	S16
<i>N</i> -(2-Acetylamido-4-bromophenyl)- <i>N</i> -{[3-(chloromethyl)oxetan-3-yl]methyl} acetamide (9a)	S18
<i>N</i> -[5-Bromo-2-(2-oxa-6-azaspiro[3.3]heptan-6-yl)phenyl]acetamide (8a)	S20
<i>N</i> -Acetyl- <i>N</i> -[5-bromo-2-(2-oxa-6-azaspiro[3.3]heptan-6-yl)phenyl]acetamide (10a)	S22
<i>N</i> -[5-Bromo-2-(2-oxa-7-azaspiro[3.5]nonan-7-yl)phenyl]acetamide (8b)	S24
7'-Bromo-1',2'-dihydro-4' <i>H</i> -spiro[oxetane-3,3'-pyrido[1,2- <i>a</i>]benzimidazole] (2b)	S26

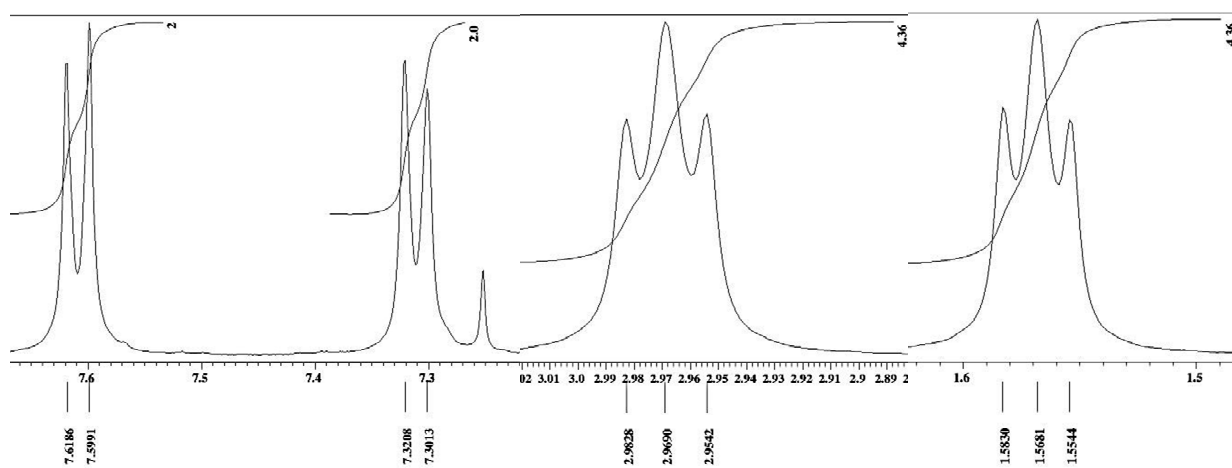
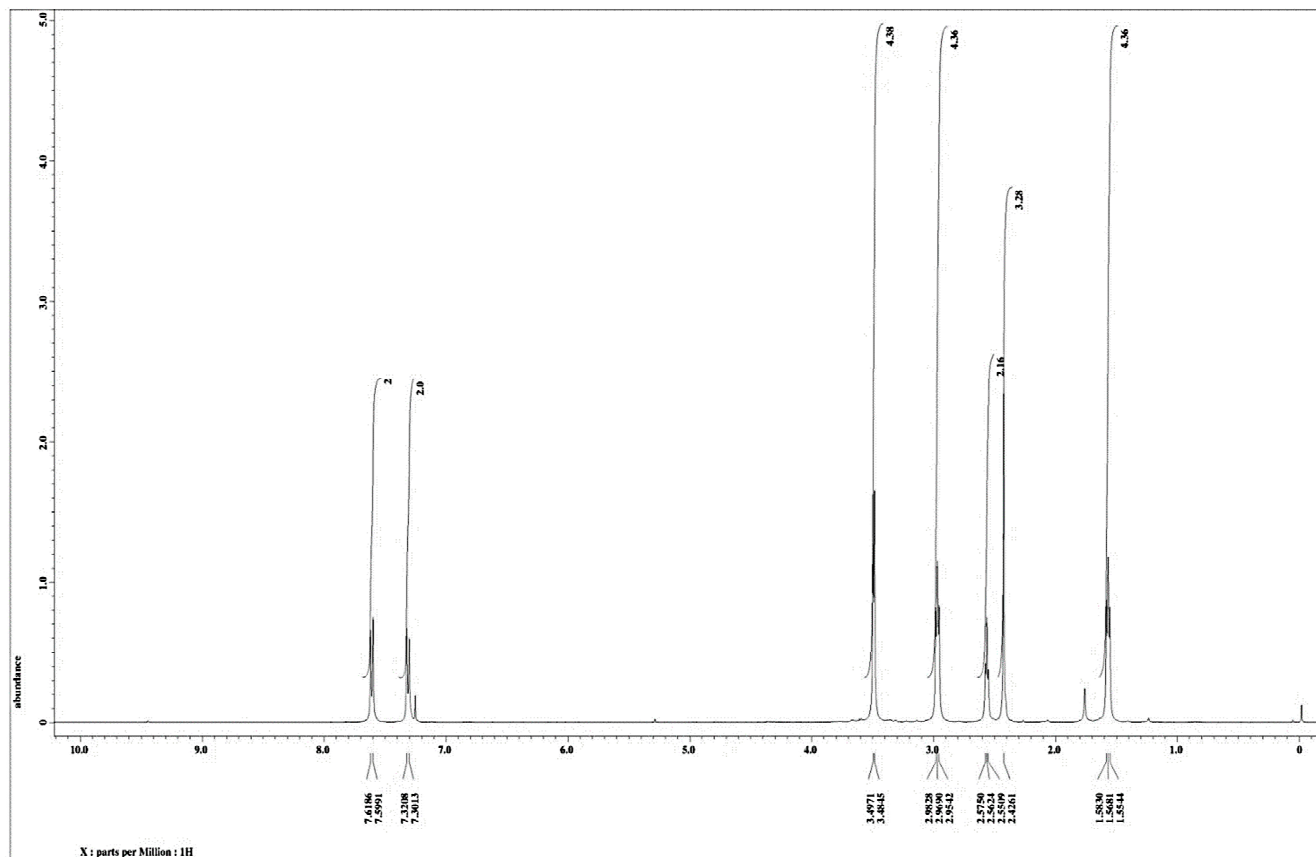
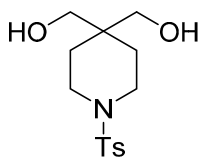
^1H -NMR (400 MHz) of Diethyl 1-(4-methylbenzene-1-sulfonyl)piperidine-4,4-dicarboxylate (**3**) in CDCl_3



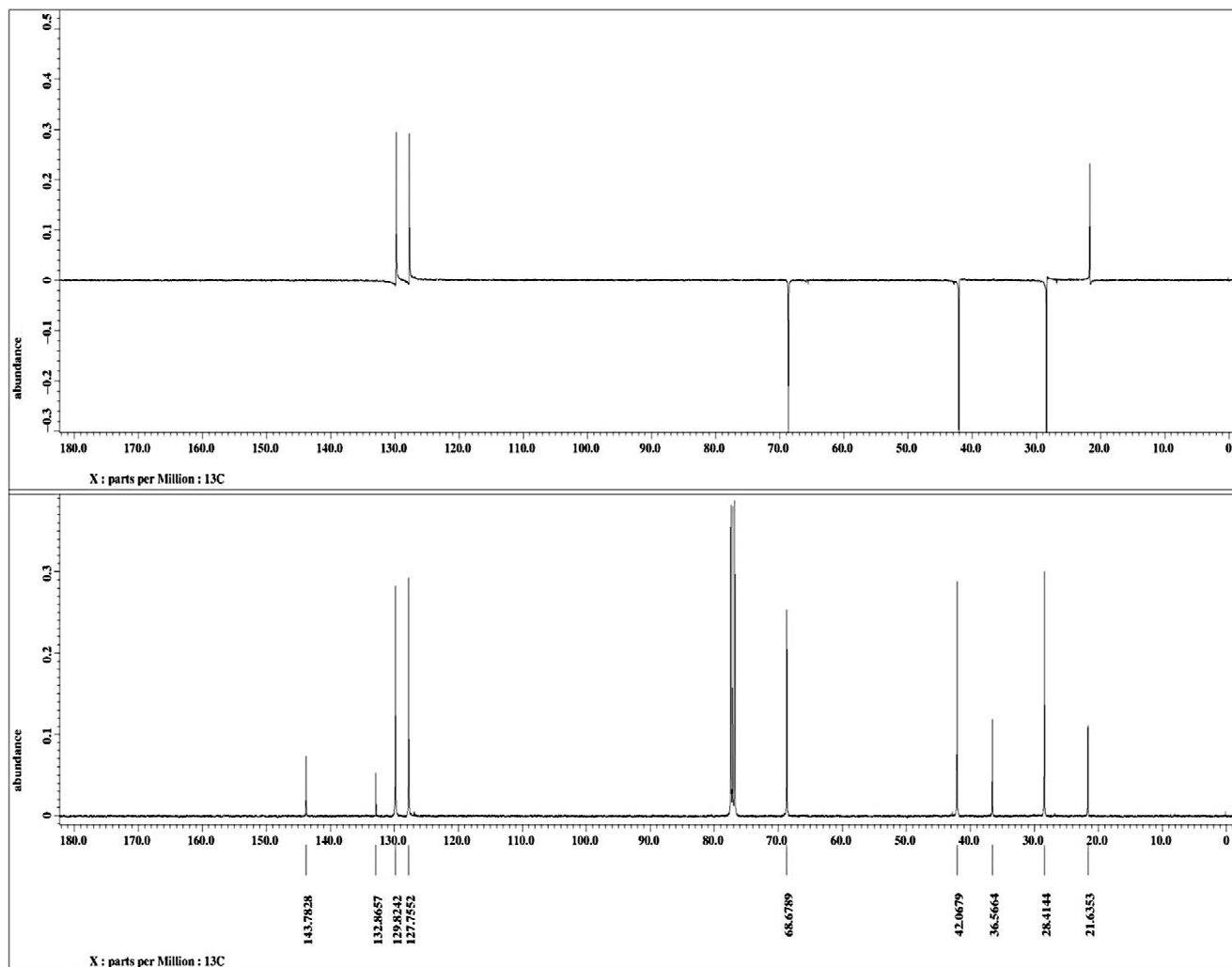
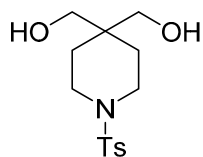
^{13}C -NMR (100 MHz) of Diethyl 1-(4-methylbenzene-1-sulfonyl)piperidine-4,4-dicarboxylate (**3**) in CDCl_3



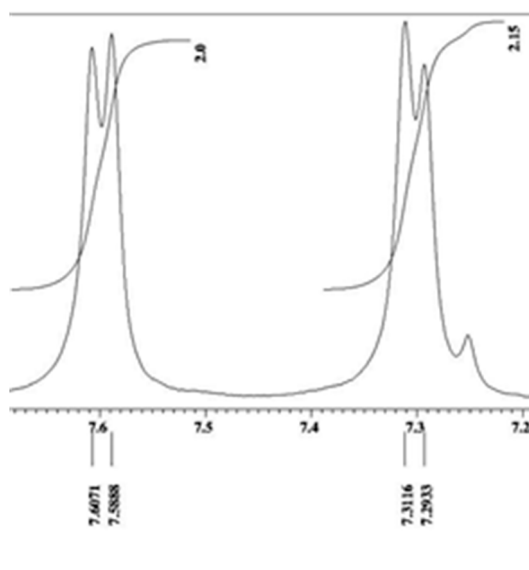
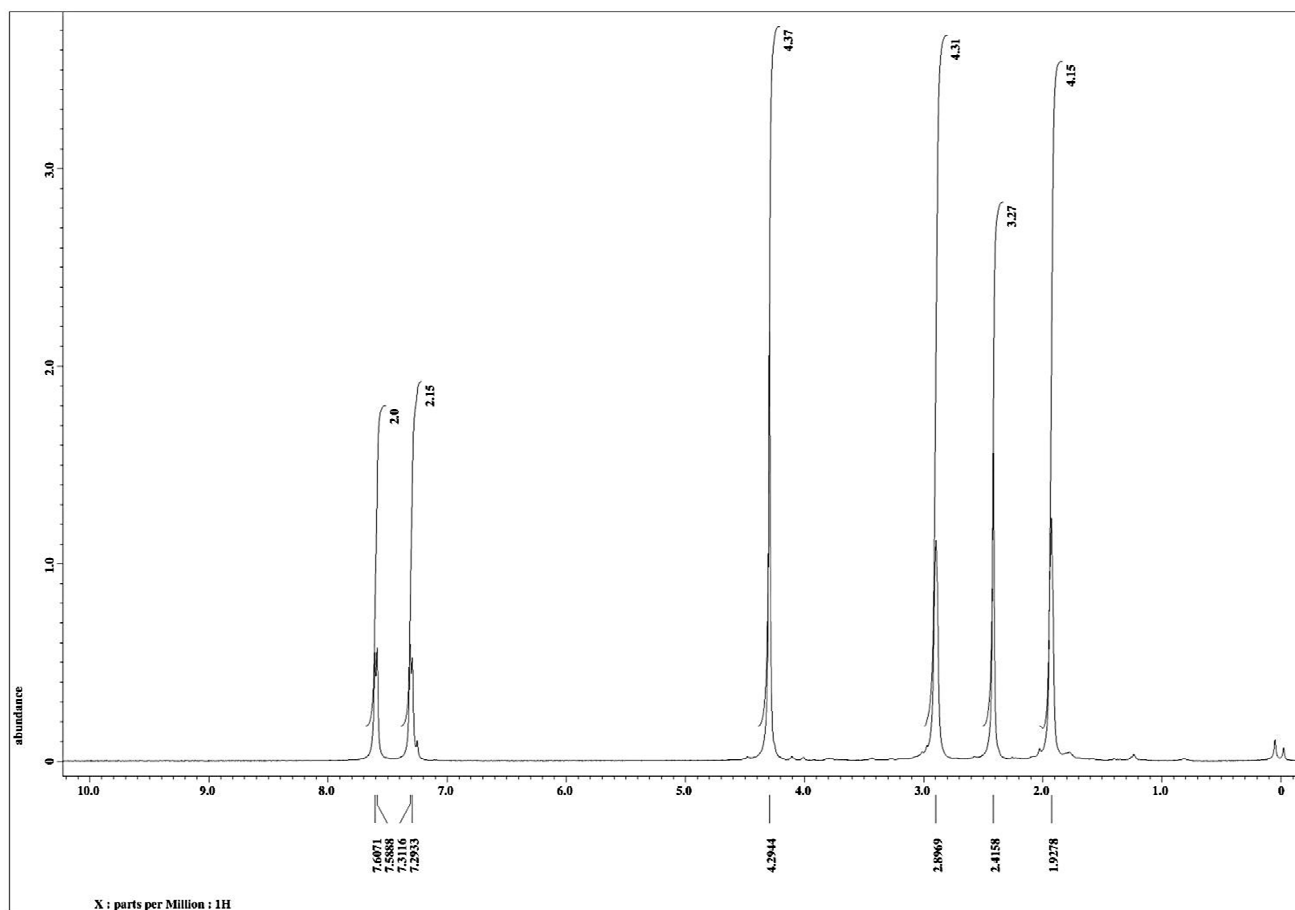
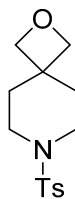
^1H -NMR (400 MHz) of [1-(4-Methylbenzene-1-sulfonyl)]piperidine-4,4-diyl]dimethanol (**4**) in CDCl_3



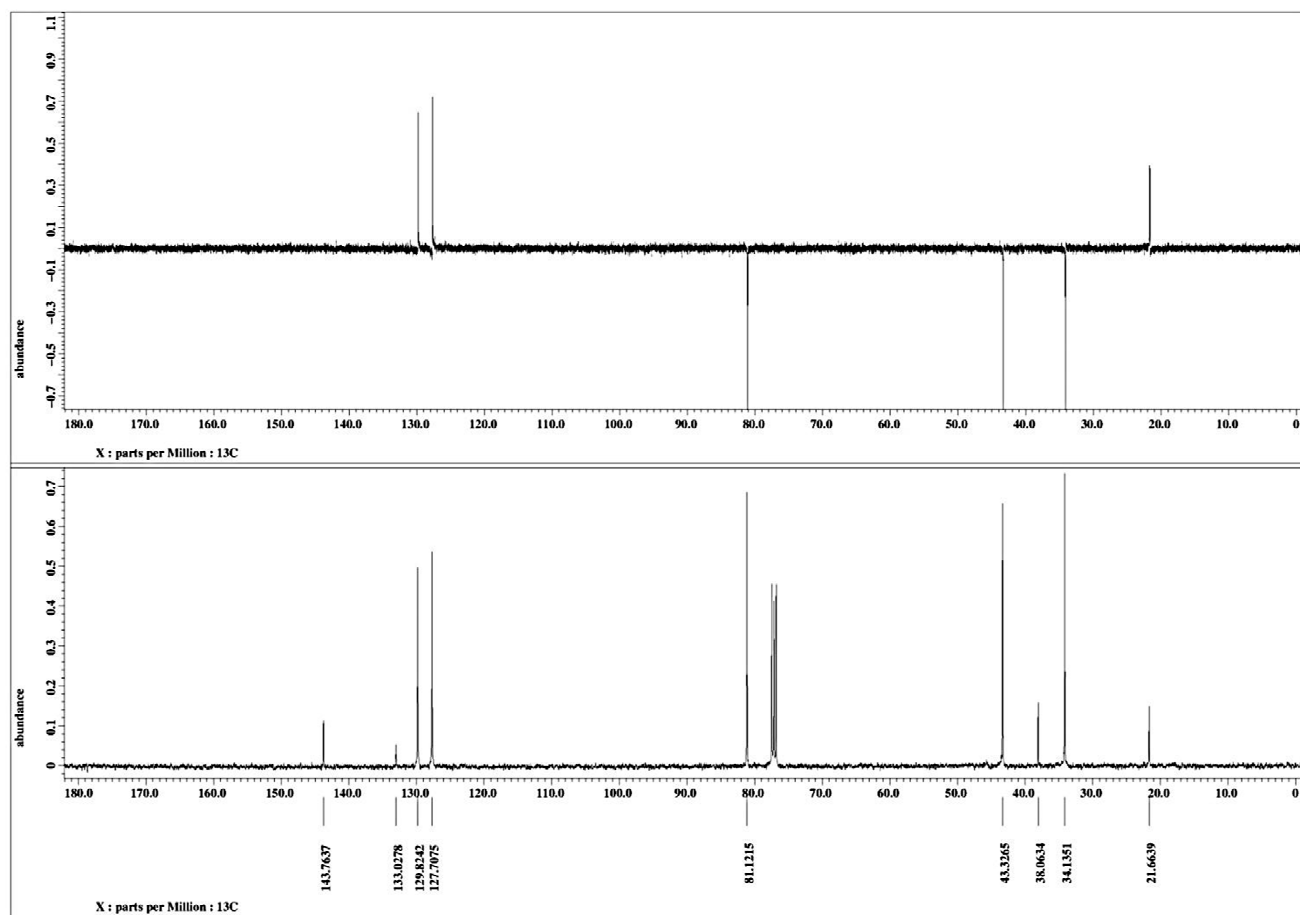
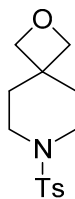
^{13}C -NMR (100 MHz) of [1-(4-Methylbenzene-1-sulfonyl)]piperidine-4,4-diyl]dimethanol (**4**) in CDCl_3



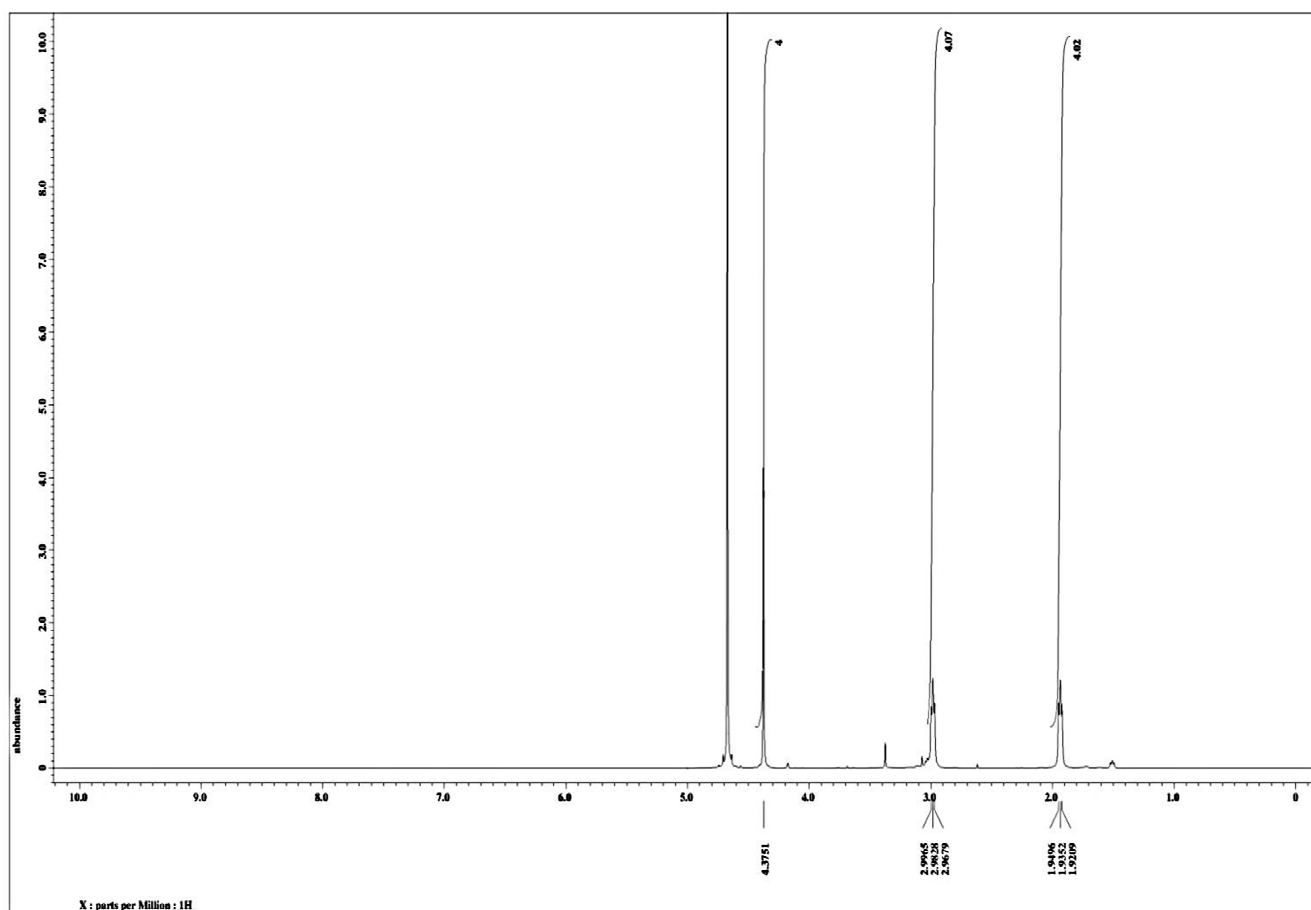
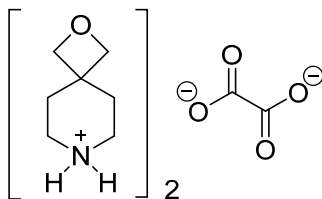
^1H -NMR (400 MHz) of 7-(4-Methylbenzene-1-sulfonyl)-2-oxa-7-azaspiro[3.5]nonane (**5**) in CDCl_3



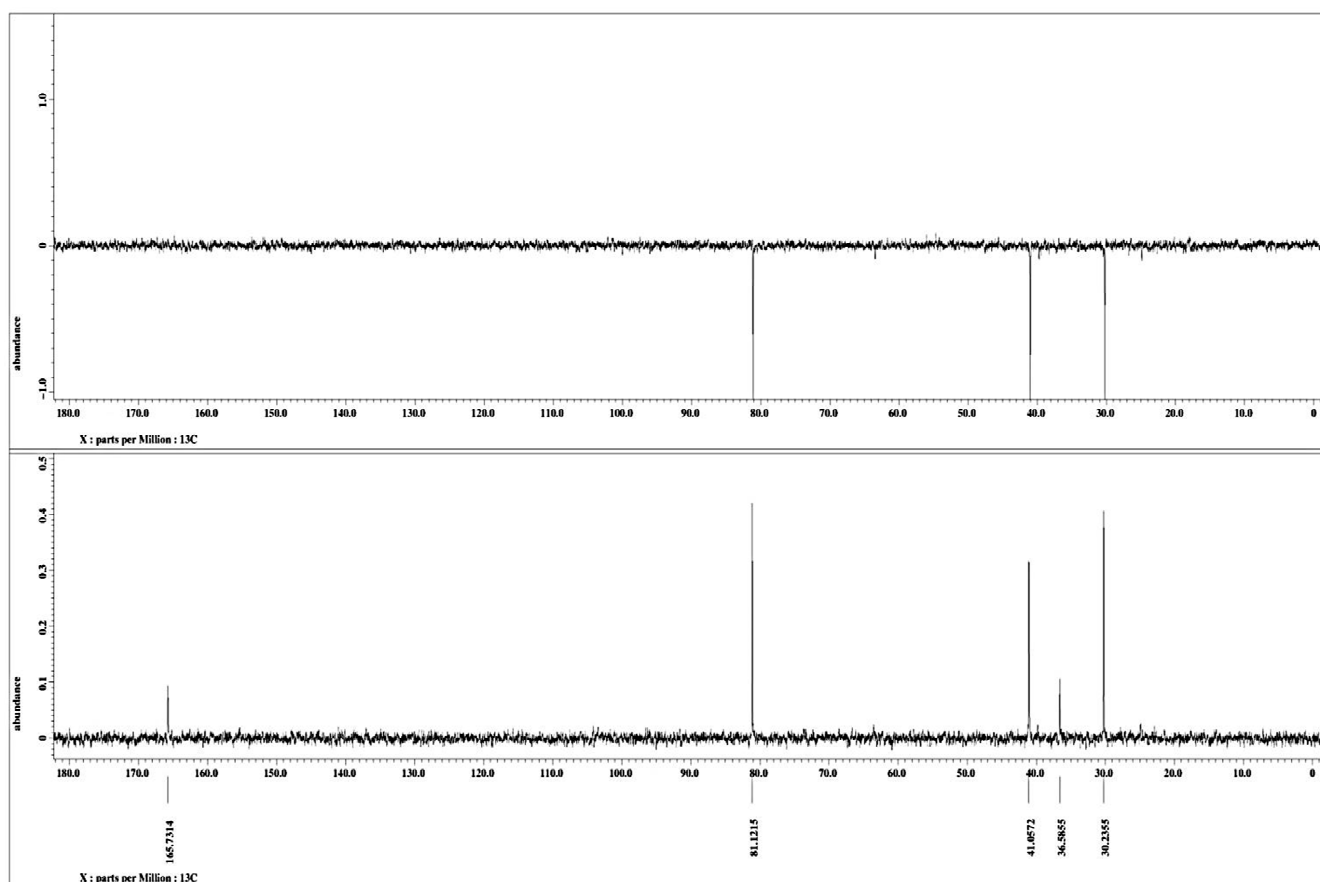
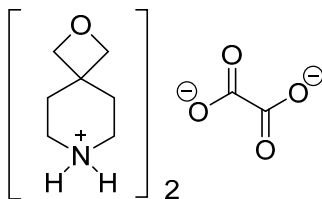
^{13}C -NMR (100 MHz) of 7-(4-Methylbenzene-1-sulfonyl)-2-oxa-7-azaspiro[3.5]nonane (**5**) in CDCl_3



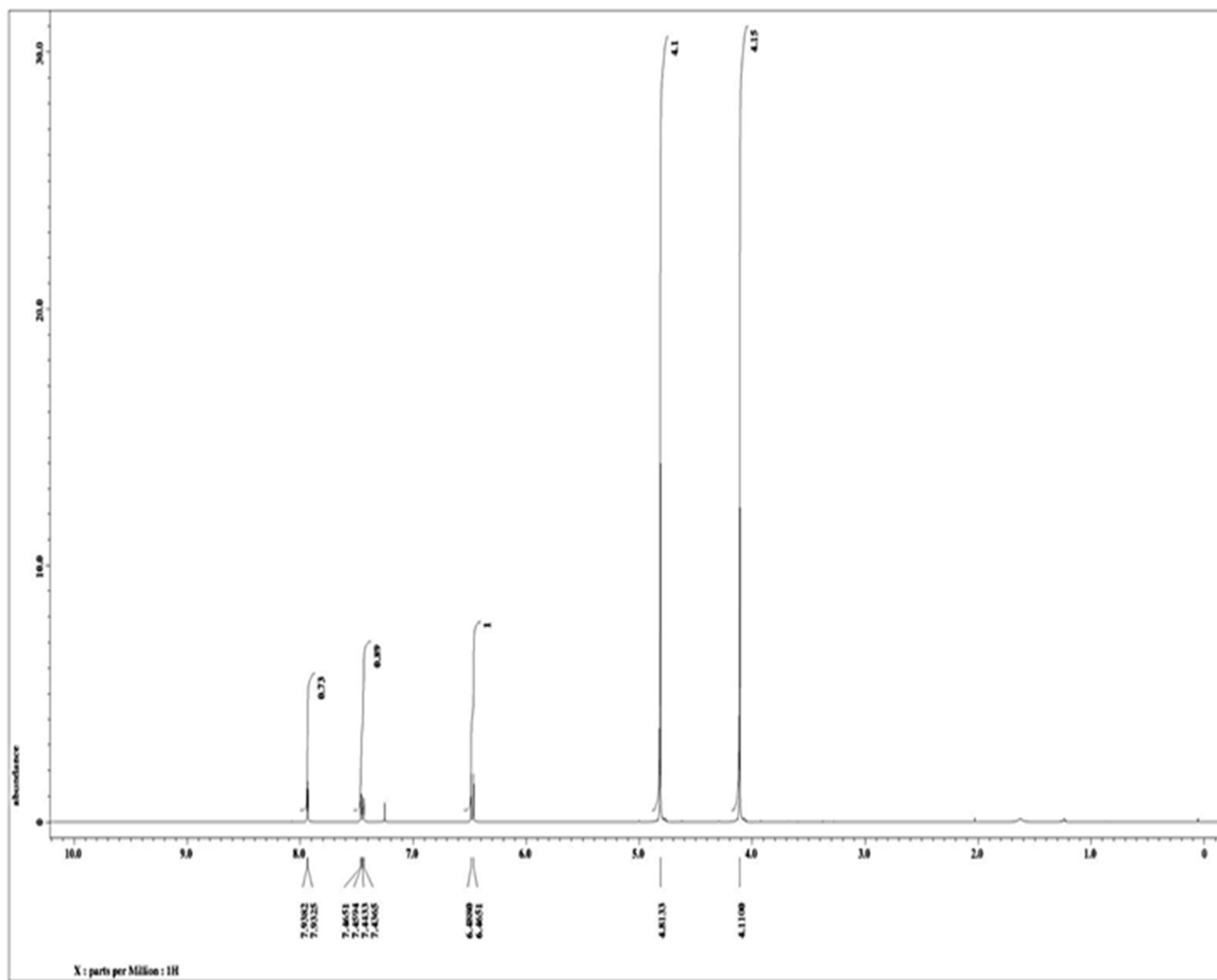
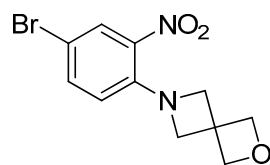
^1H -NMR (400 MHz) of Bis(2-oxa-7-azaspiro[3.5]nonan-7-ium) Ethanedioate (oxalate salt of **1b**) in D_2O



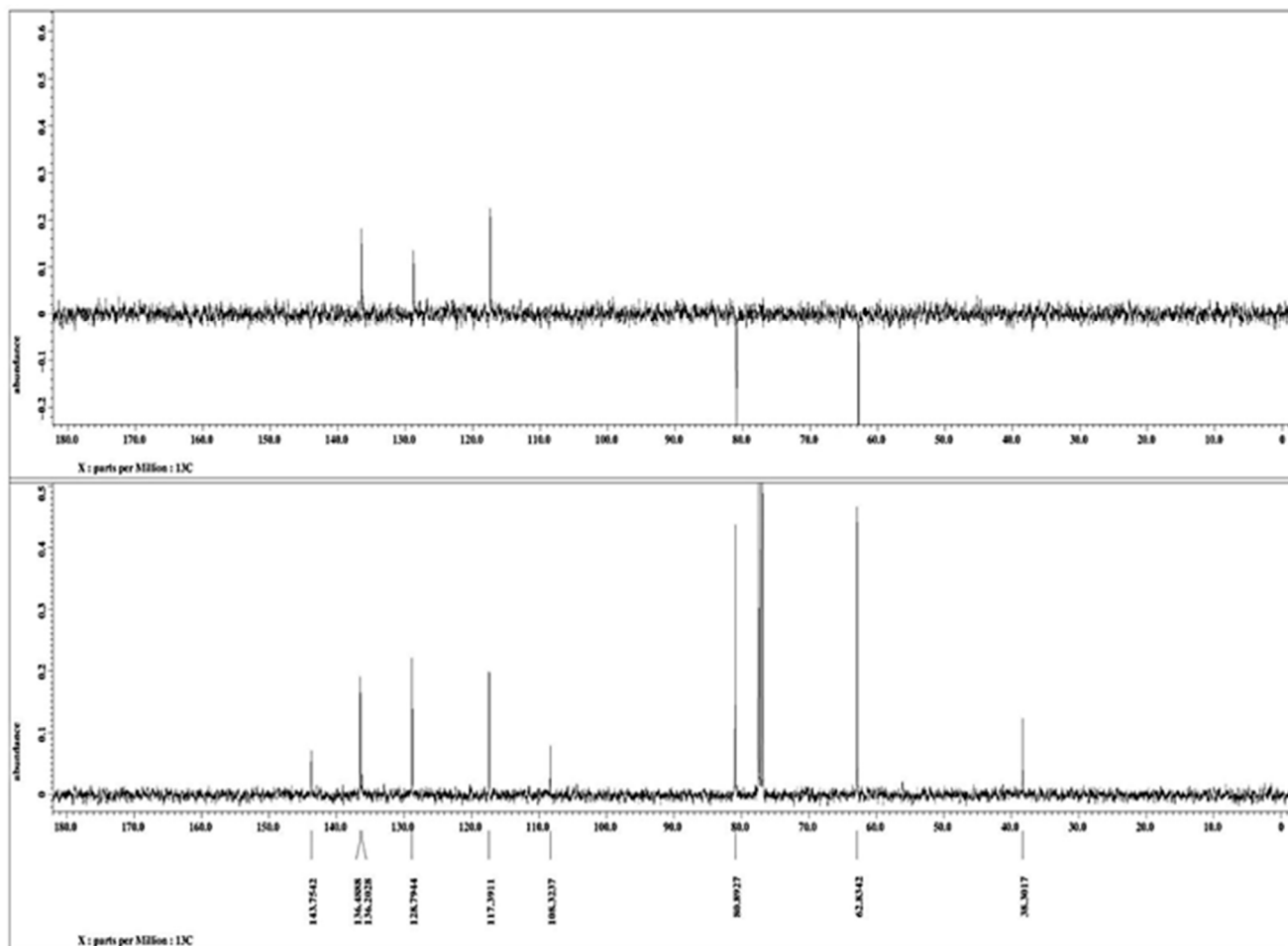
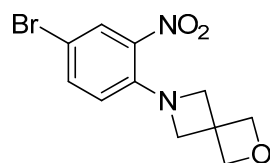
^{13}C -NMR (100 MHz) of Bis(2-oxa-7-azaspiro[3.5]nonan-7-ium) Ethanedioate (oxalate Salt of **1b**) in D_2O



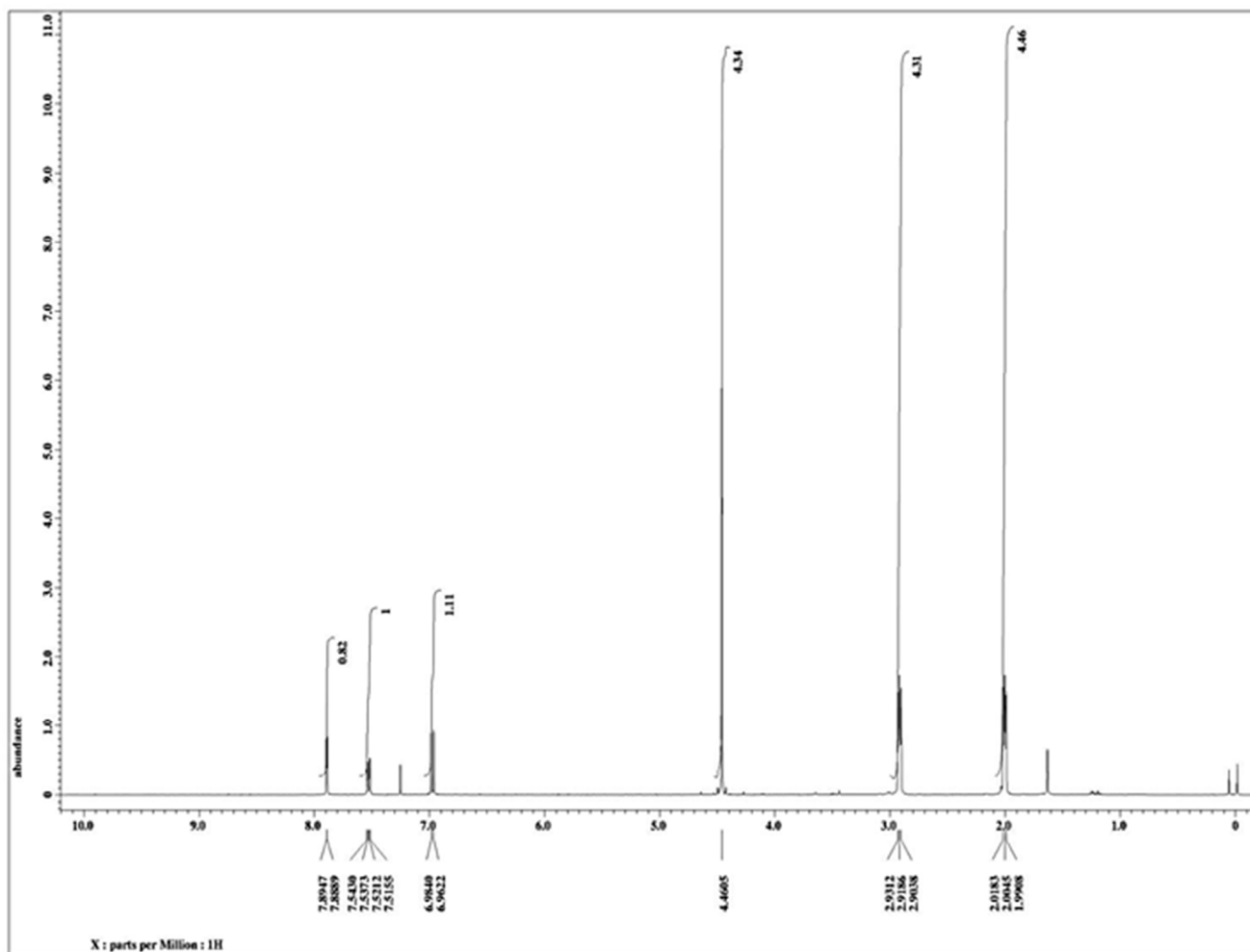
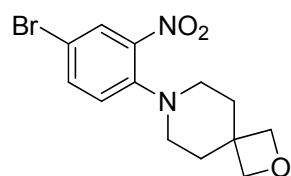
^1H -NMR (400 MHz) of 6-(4-Bromo-2-nitrophenyl)-2-oxa-6-azaspiro[3.3]heptane (**6a**) in CDCl_3



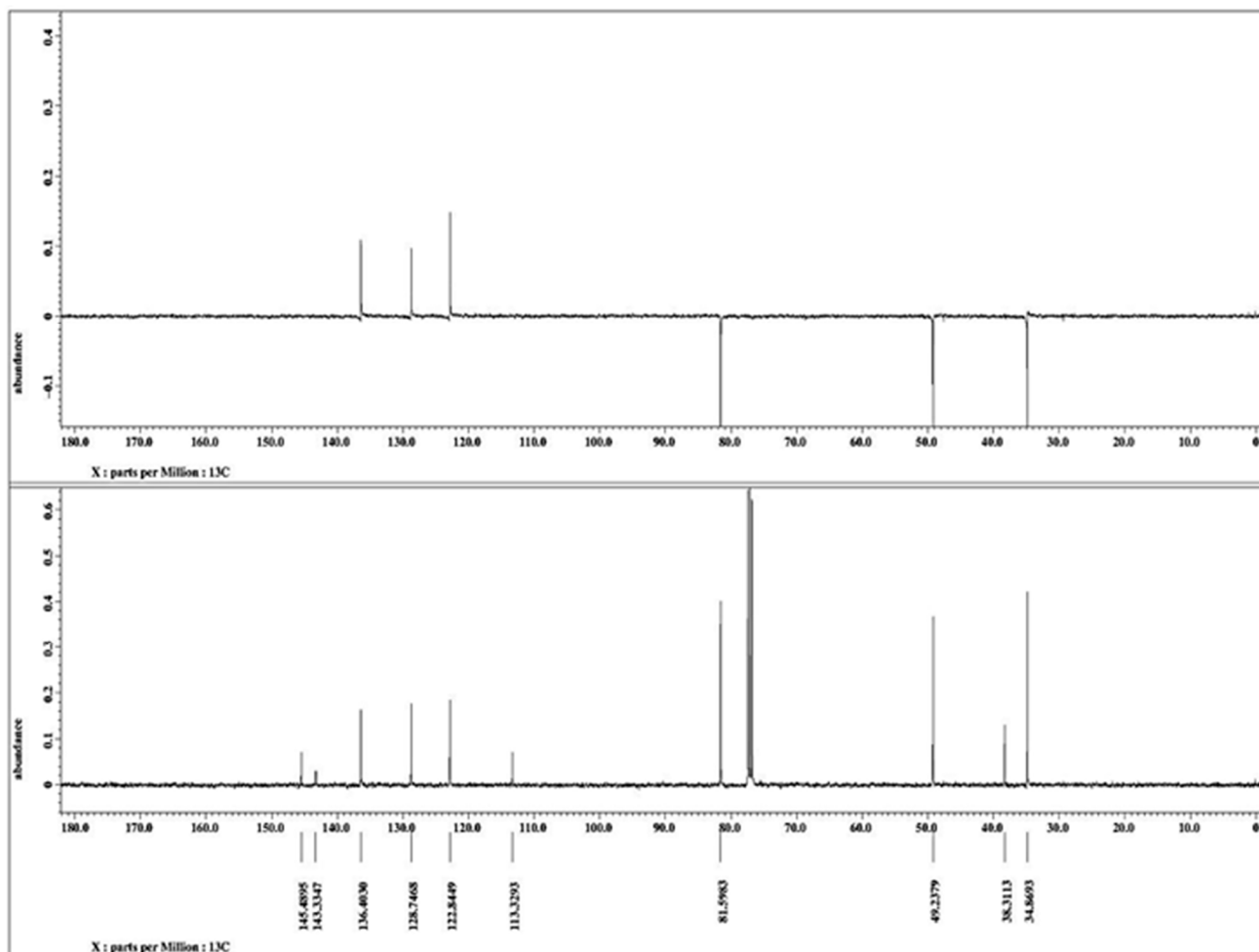
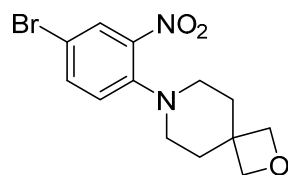
^{13}C -NMR (100 MHz) of 6-(4-Bromo-2-nitrophenyl)-2-oxa-6-azaspiro[3.3]heptane (**6a**) in CDCl_3



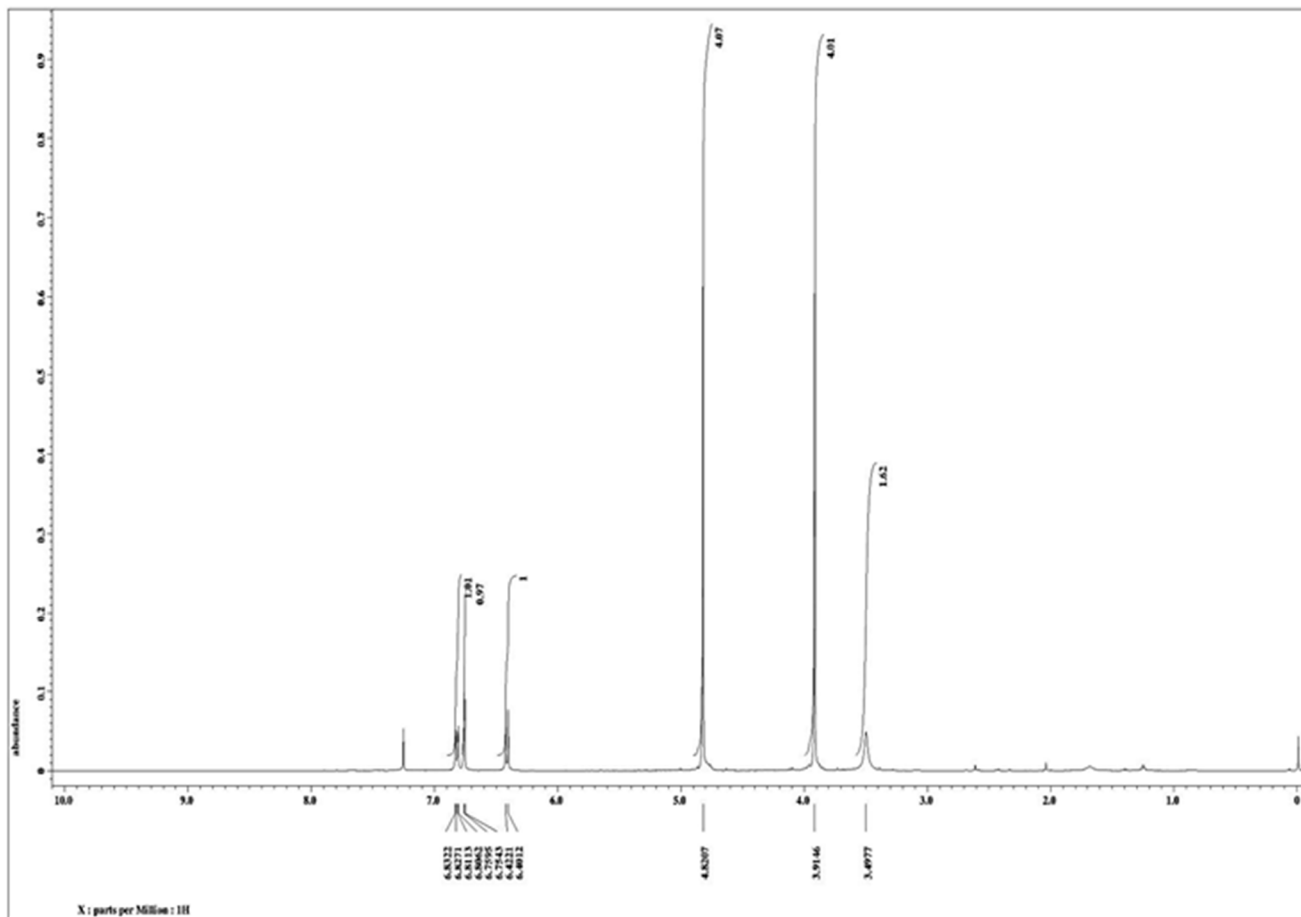
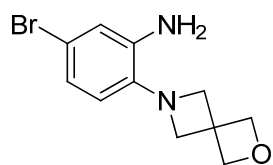
^1H -NMR (400 MHz) of 7-(4-Bromo-2-nitrophenyl)-2-oxa-7-azaspiro[3.5]nonane (**6b**) in CDCl_3



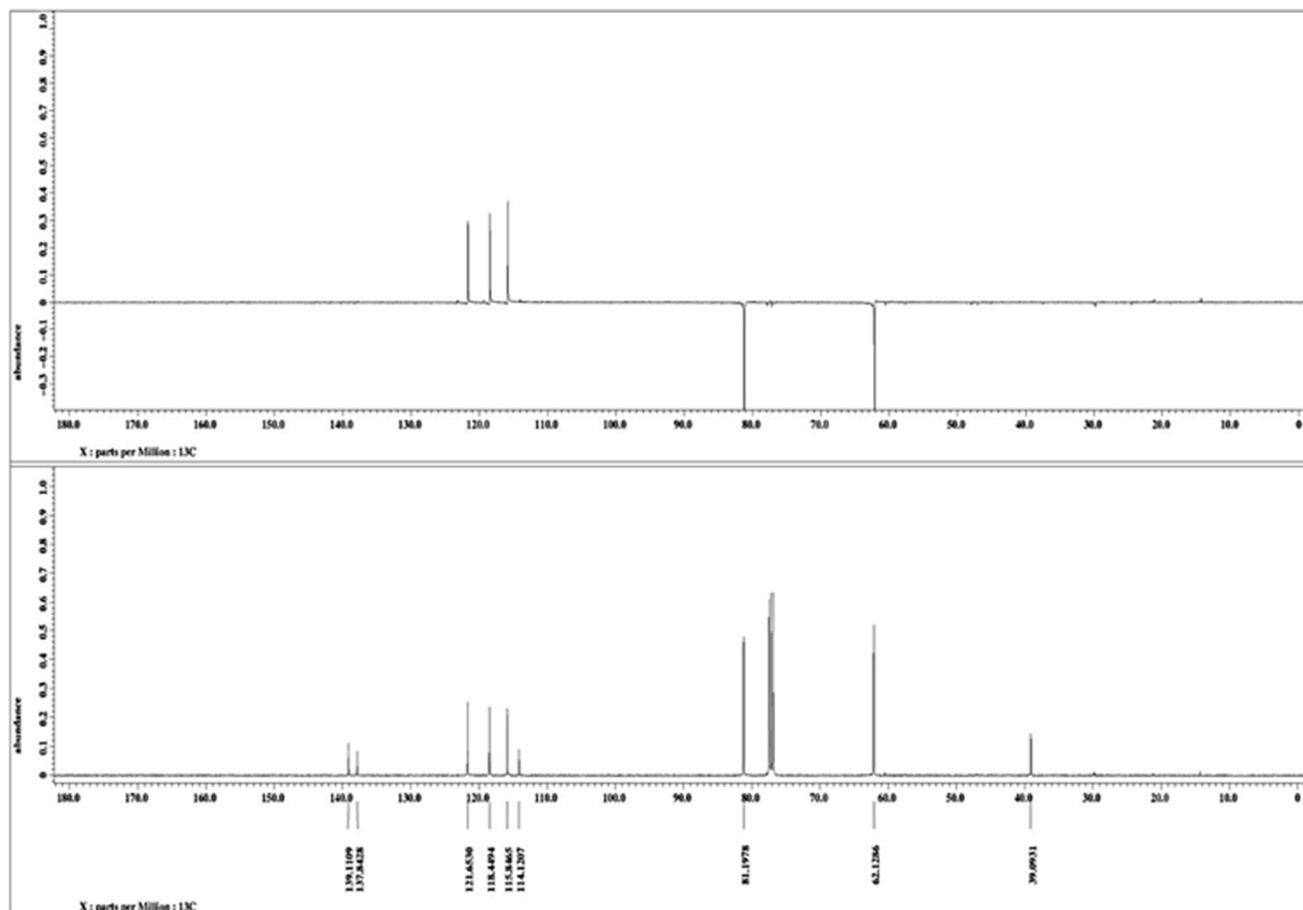
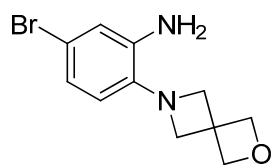
^{13}C -NMR (100 MHz) of 7-(4-Bromo-2-nitrophenyl)-2-oxa-7-azaspiro[3.5]nonane (**6b**) in CDCl_3



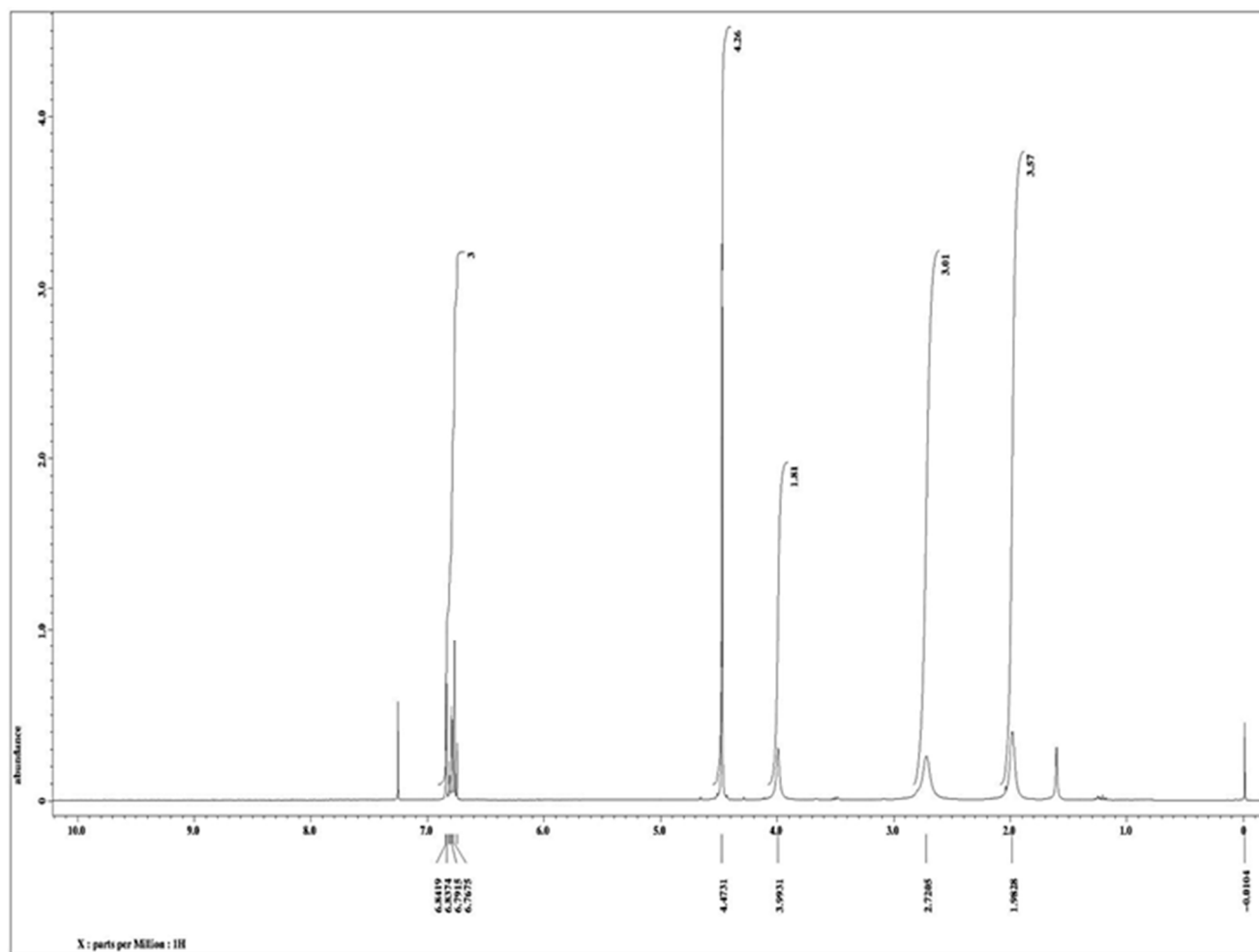
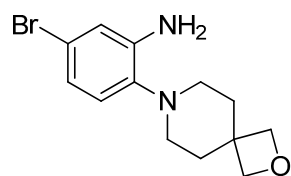
^1H -NMR (400 MHz) of 5-Bromo-2-(2-oxa-6-azaspiro[3.3]heptan-6-yl)aniline (**7a**) in CDCl_3



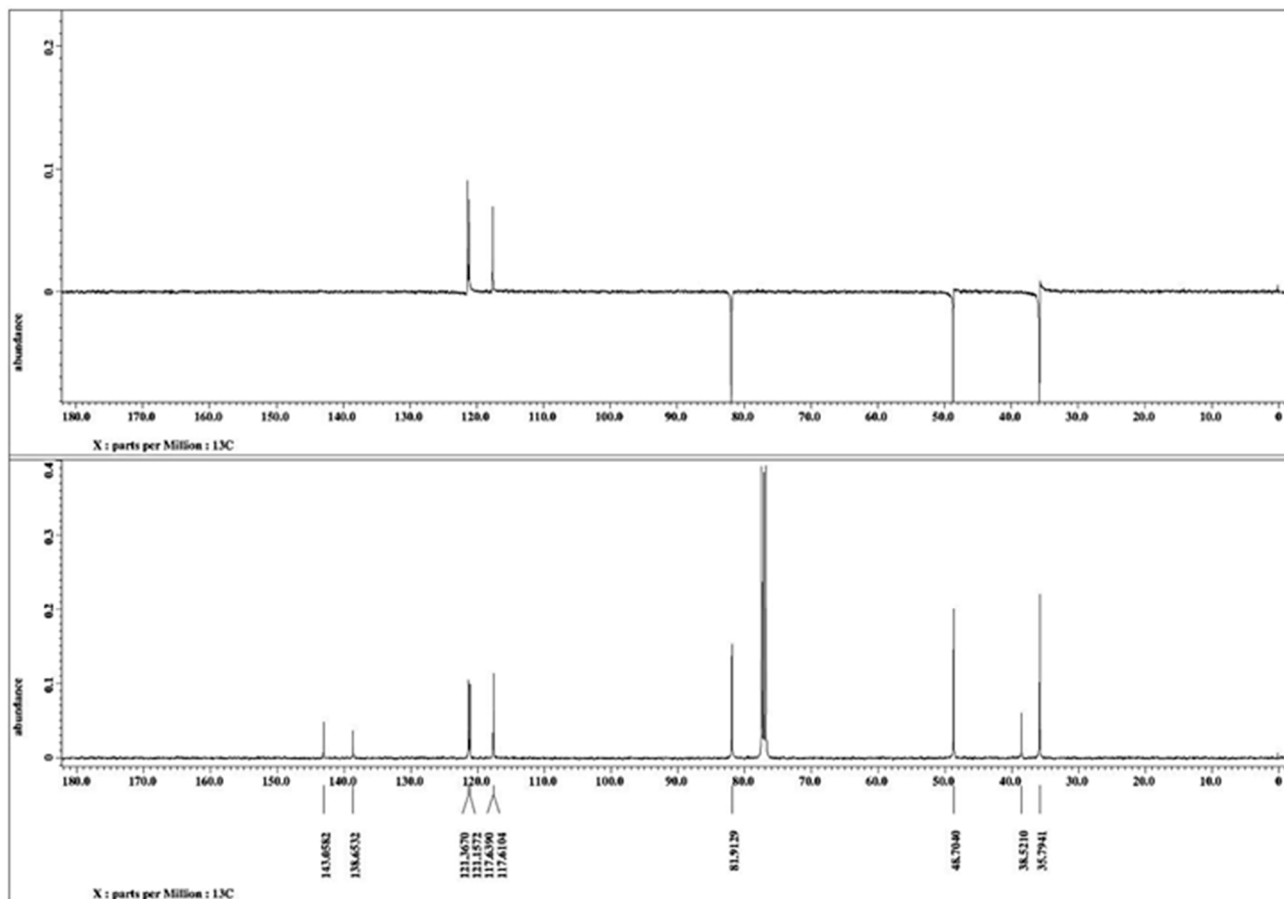
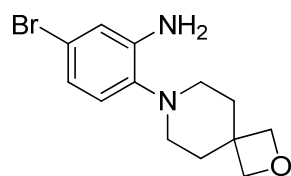
^{13}C -NMR (100 MHz) of 5-Bromo-2-(2-oxa-6-azaspiro[3.3]heptan-6-yl)aniline (**7a**) in CDCl_3



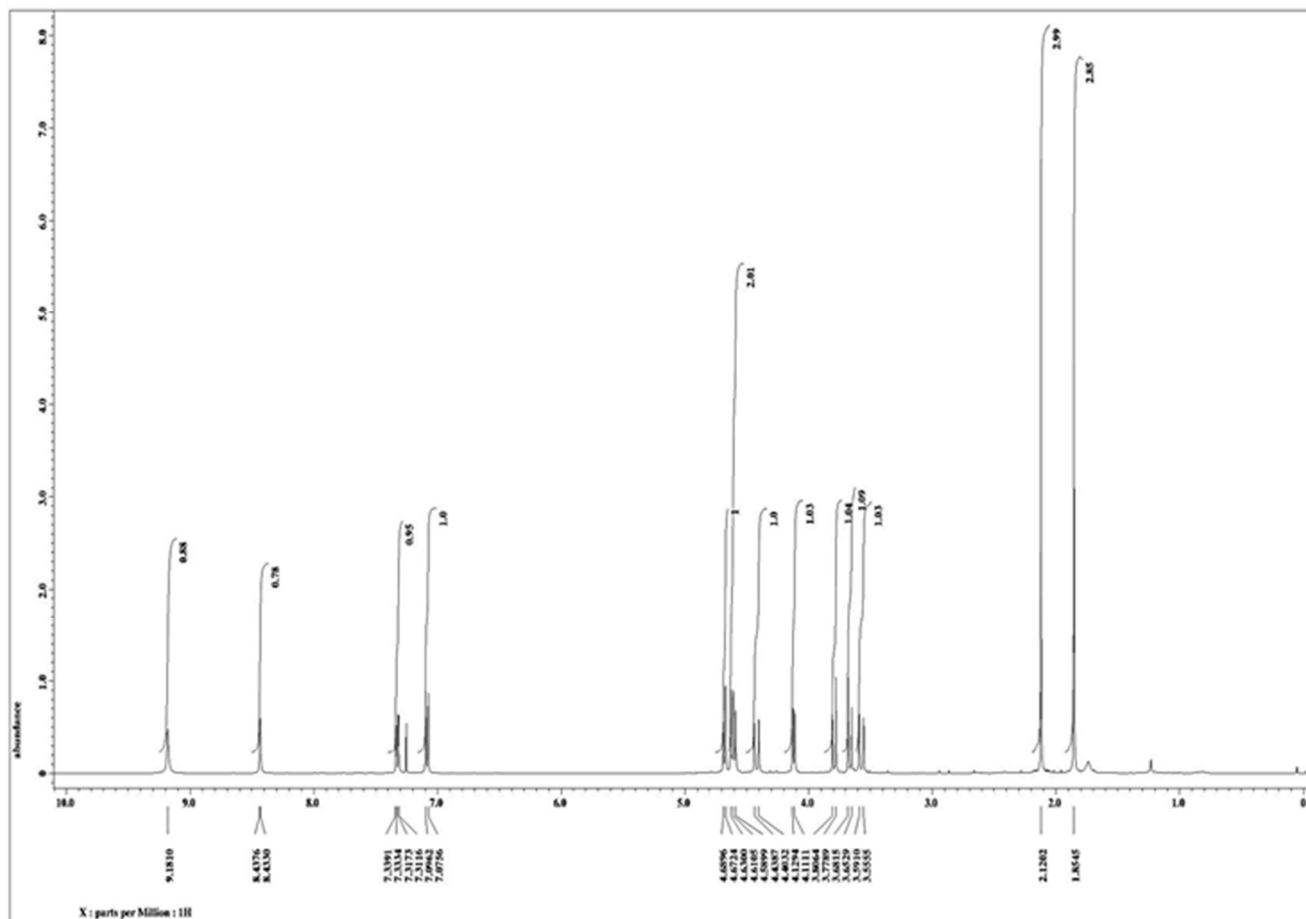
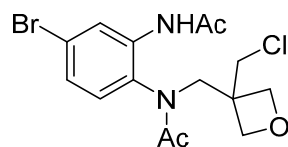
^1H -NMR (400 MHz) of 5-Bromo-2-(2-oxa-7-azaspiro[3.5]nonan-7-yl)aniline (**7b**) in CDCl_3



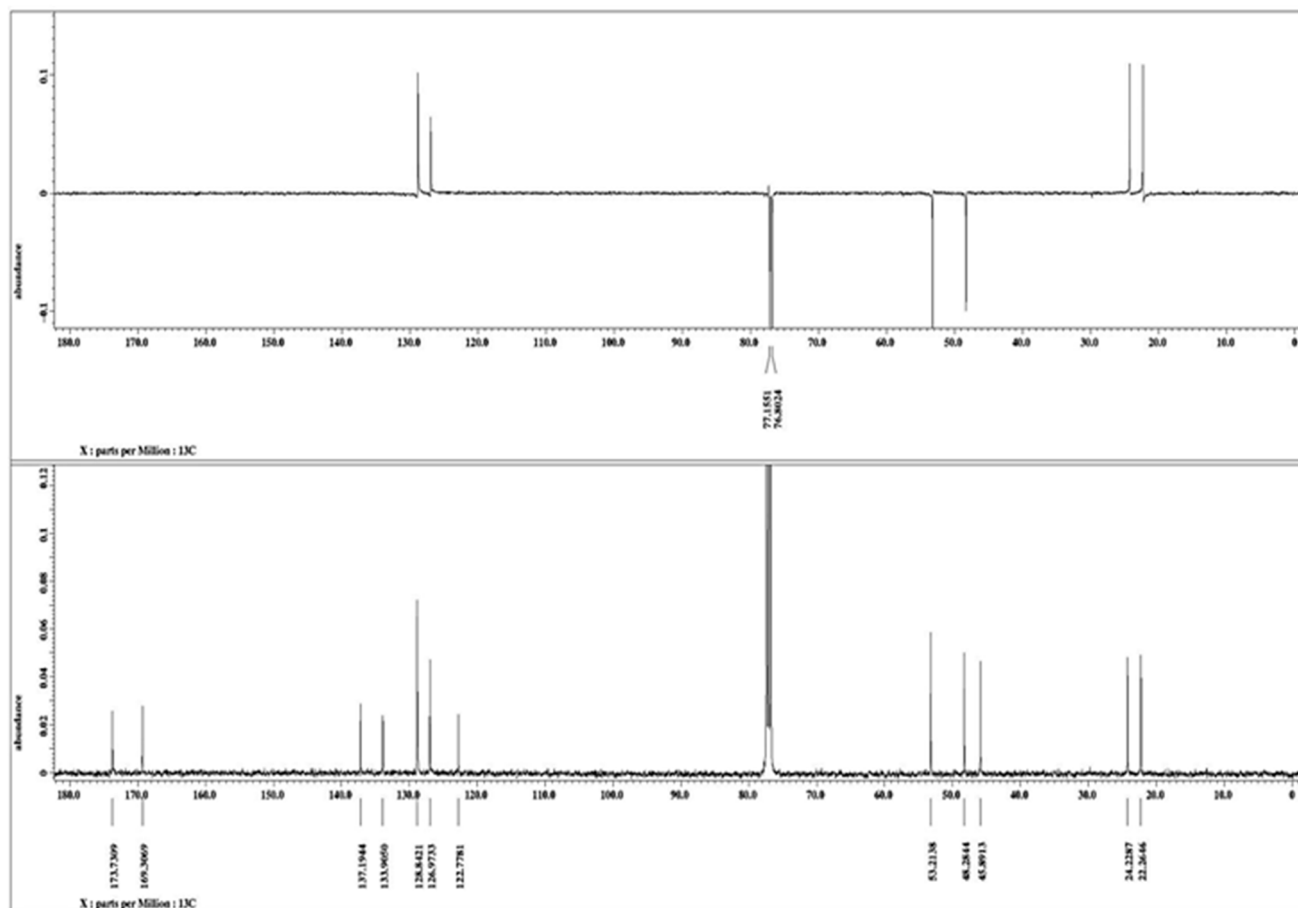
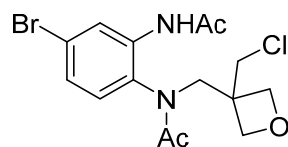
^{13}C -NMR (100 MHz) of 5-Bromo-2-(2-oxa-7-azaspiro[3.5]nonan-7-yl)aniline (**7b**) in CDCl_3



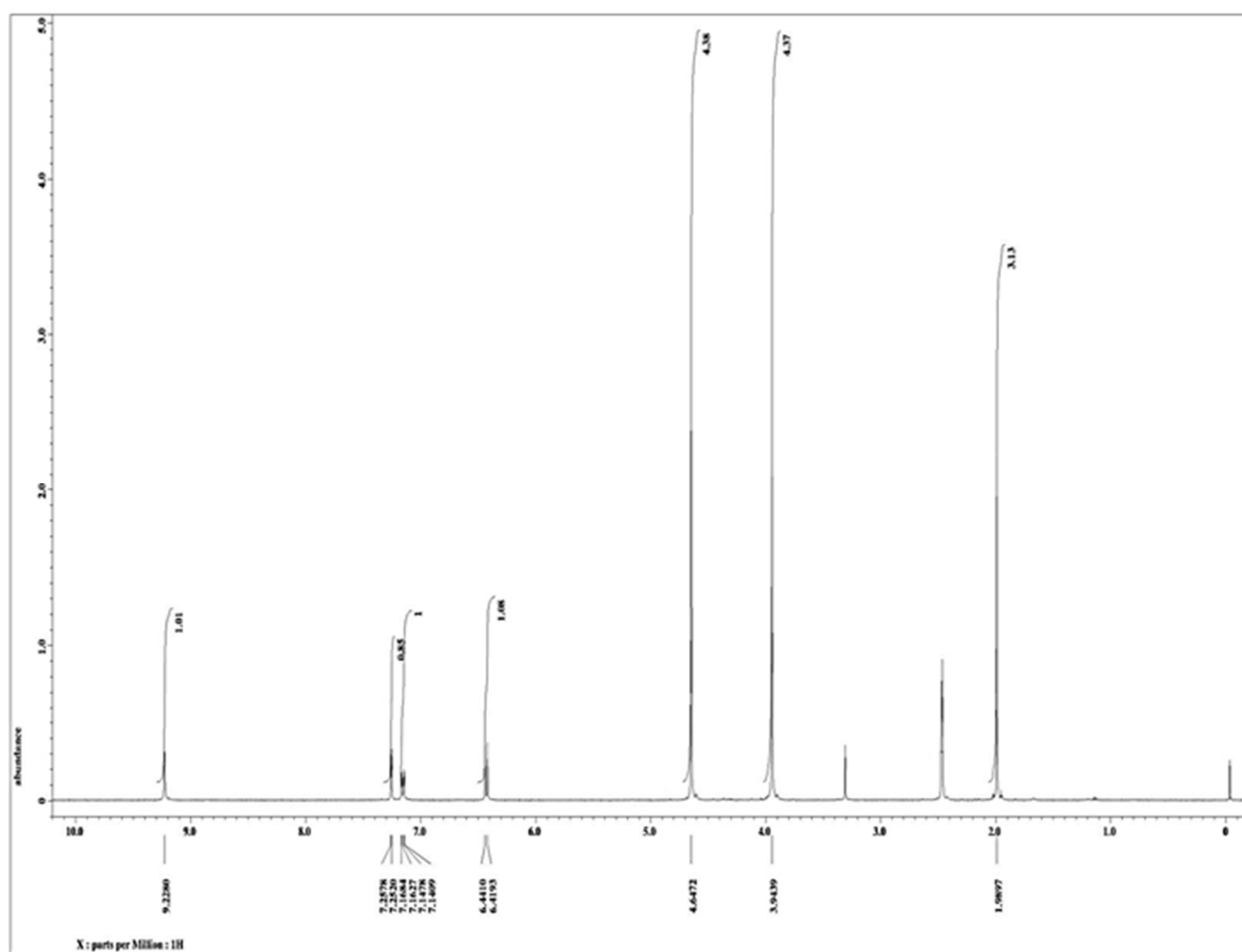
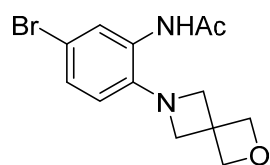
^1H -NMR (400 MHz) of *N*-(2-Acetylamido-4-bromophenyl)-*N*-{[3-(chloromethyl)oxetan-3-yl]methyl} acetamide (**9a**) in CDCl_3



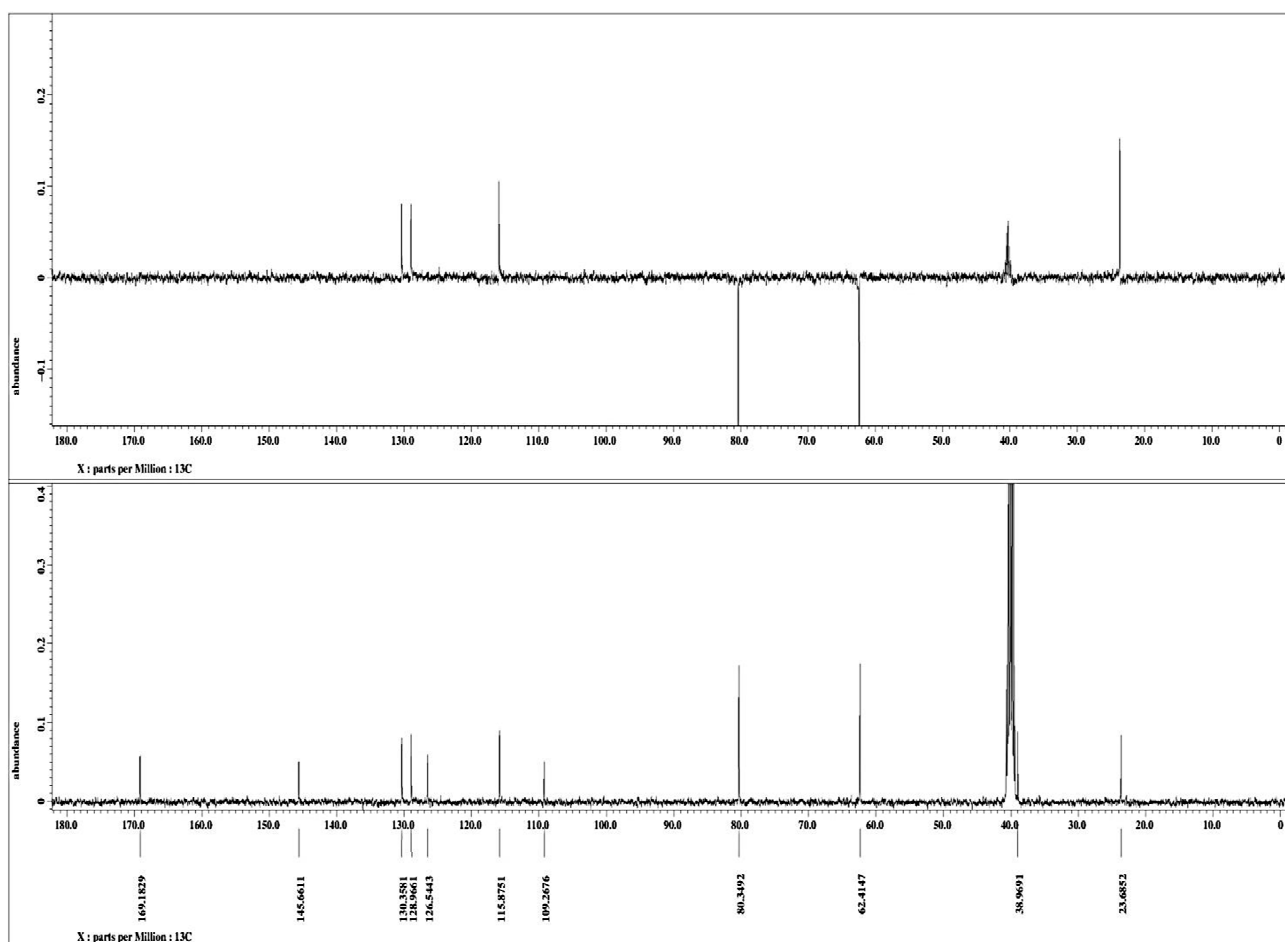
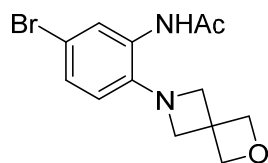
^{13}C -NMR (100 MHz) of *N*-(2-Acetylamido-4-bromophenyl)-*N*-{[3-(chloromethyl)oxetan-3-yl]methyl} acetamide (**9a**) in CDCl_3



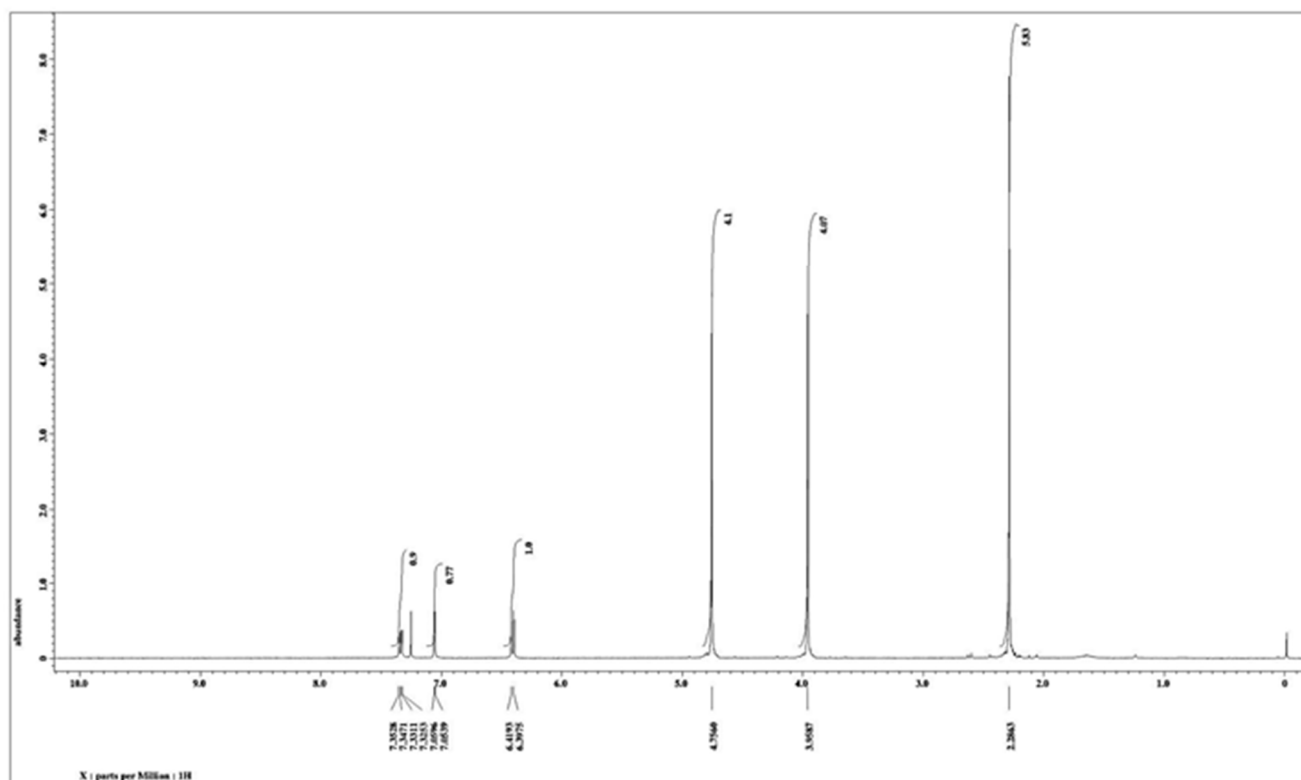
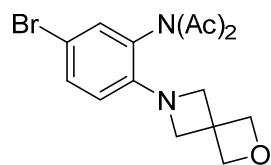
^1H -NMR (400 MHz) of *N*-[5-Bromo-2-(2-oxa-6-azaspiro[3.3]heptan-6-yl)phenyl]acetamide (**8a**) in $(\text{CD}_3)_2\text{SO}$



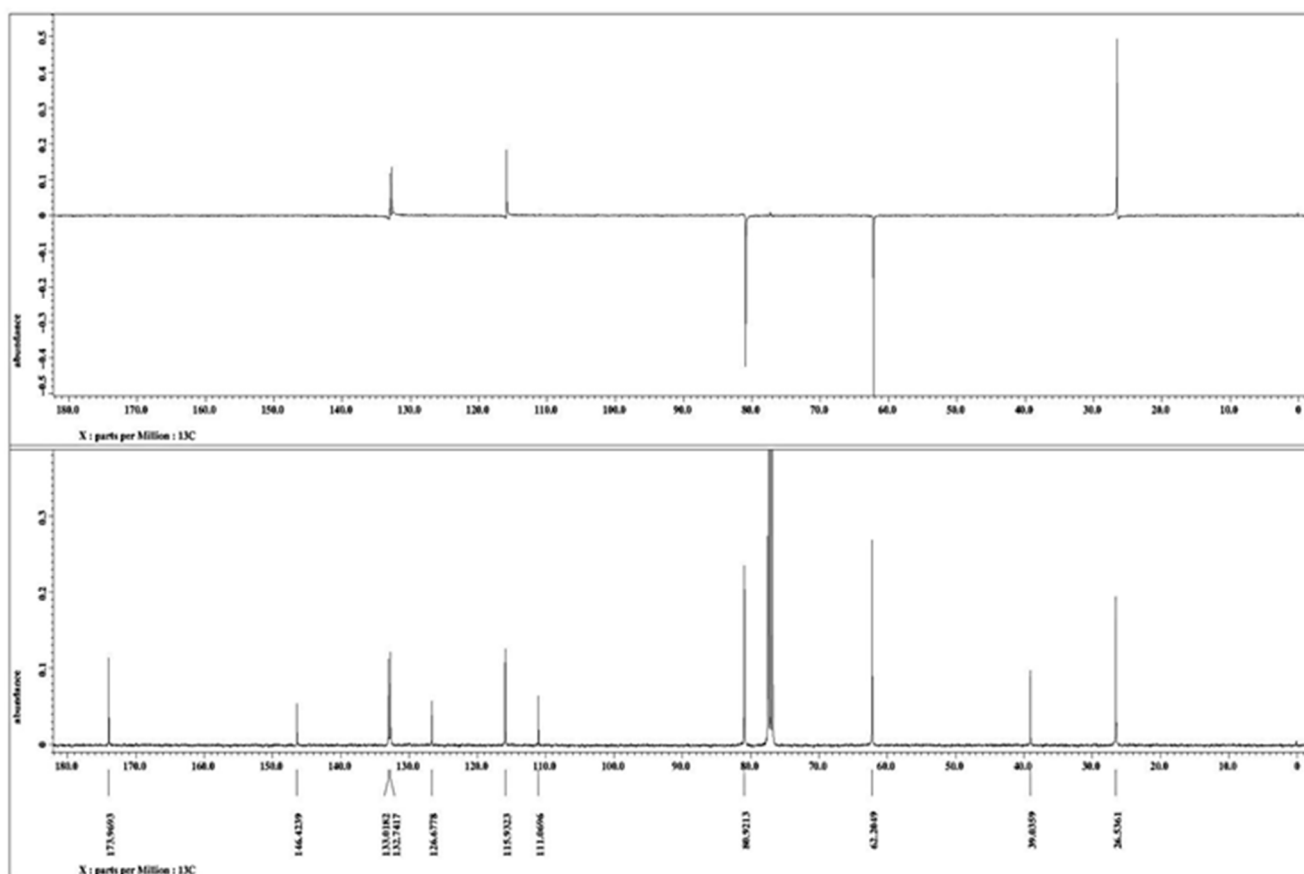
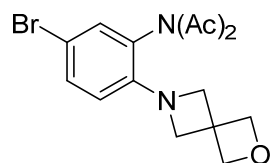
^{13}C -NMR (100 MHz) of *N*-[5-Bromo-2-(2-oxa-6-azaspiro[3.3]heptan-6-yl)phenyl]acetamide (**8a**) in $(\text{CD}_3)_2\text{SO}$



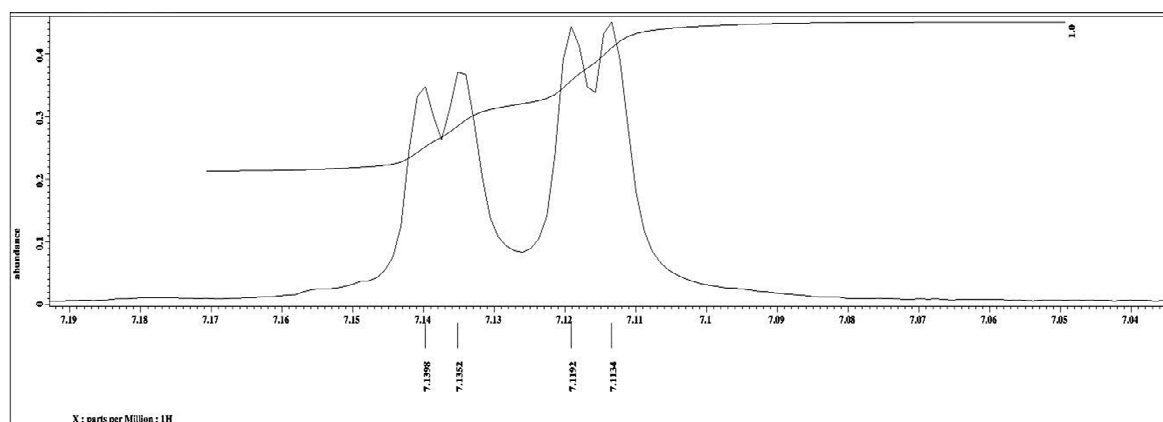
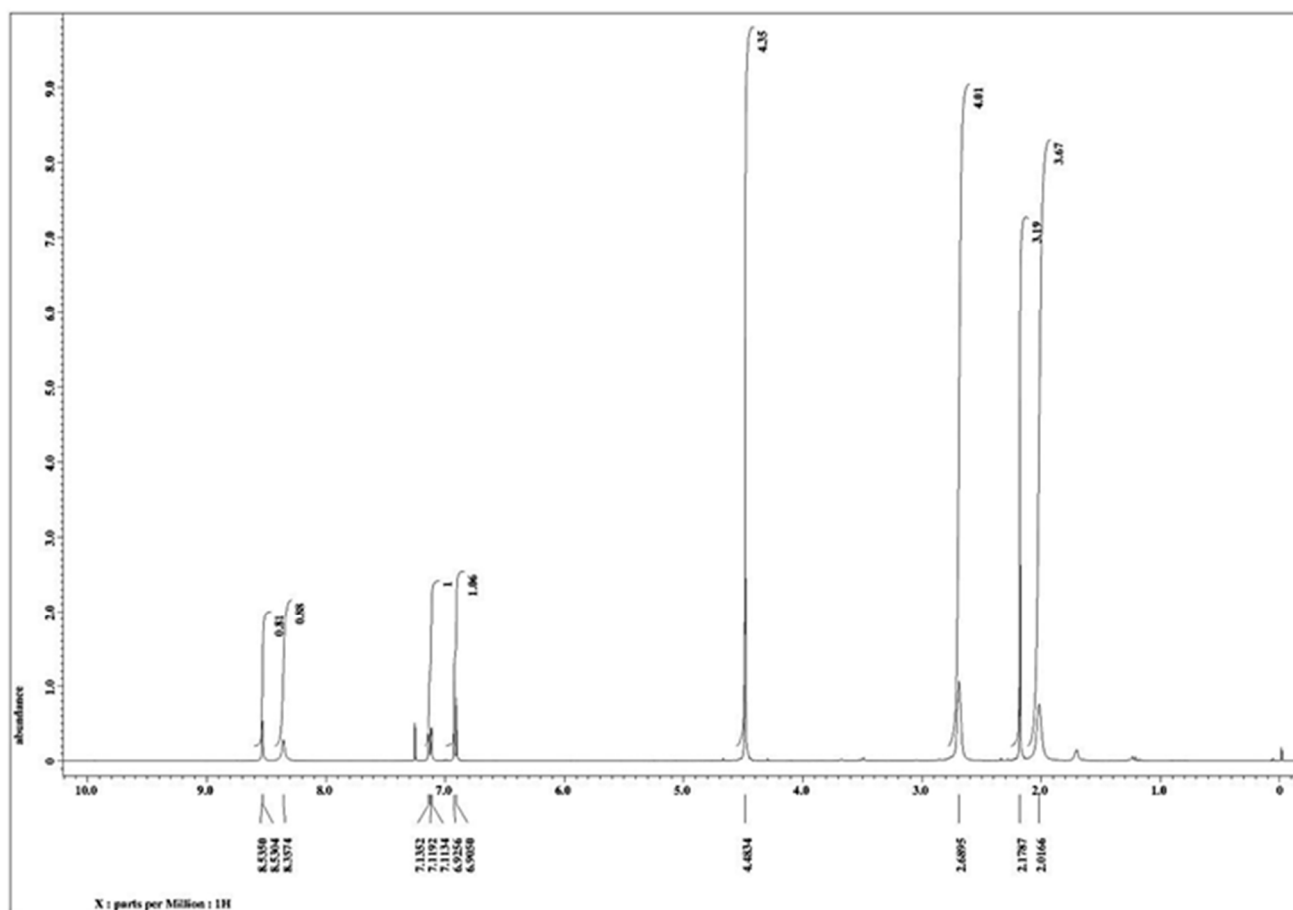
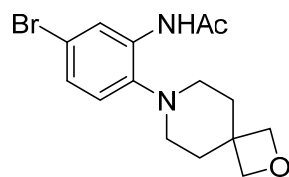
^1H -NMR (400 MHz) of *N*-Acetyl-*N*-[5-bromo-2-(2-oxa-6-azaspiro[3.3]heptan-6-yl)phenyl]acetamide (**10a**) in CDCl_3



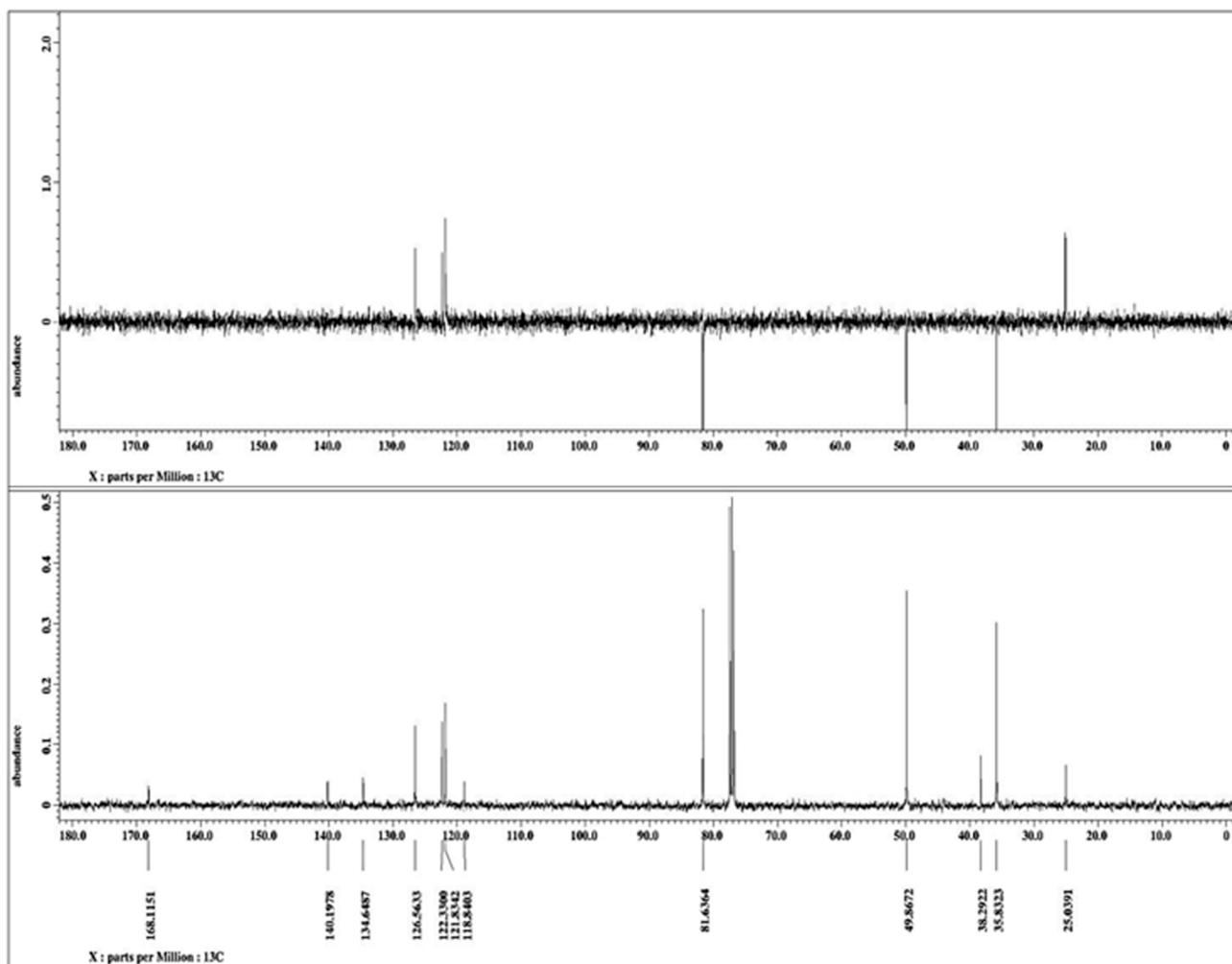
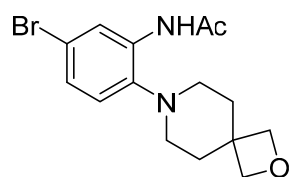
^{13}C -NMR (100 MHz) of *N*-Acetyl-*N*-[5-bromo-2-(2-oxa-6-azaspiro[3.3]heptan-6-yl)phenyl]acetamide (**10a**) in CDCl_3



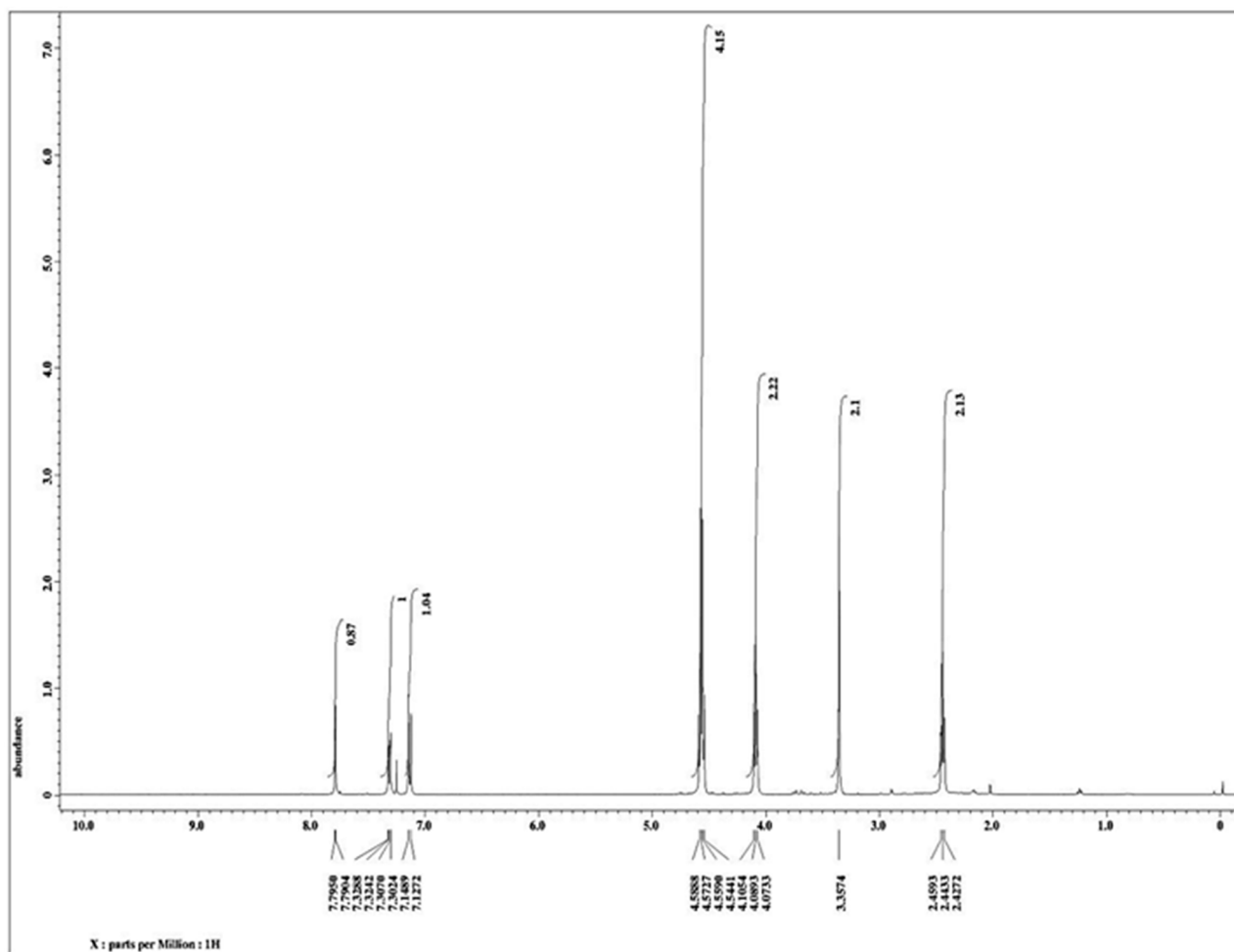
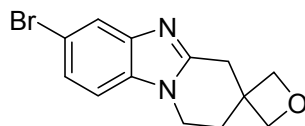
^1H -NMR (400 MHz) of *N*-[5-Bromo-2-(2-oxa-7-azaspiro[3.5]nonan-7-yl)phenyl]acetamide (**8b**) in CDCl_3



^{13}C -NMR (100 MHz) of *N*-[5-Bromo-2-(2-oxa-7-azaspiro[3.5]nonan-7-yl)phenyl]acetamide (**8b**) in CDCl_3



^1H -NMR (400 MHz) of 7'-Bromo-1',2'-dihydro-4'*H*-spiro[oxetane-3,3'-pyrido[1,2-*a*]benzimidazole] (**2b**) in CDCl_3



^{13}C -NMR (100 MHz) of 7'-Bromo-1',2'-dihydro-4'*H*-spiro[oxetane-3,3'-pyrido[1,2-*a*]benzimidazole] (**2b**) in CDCl_3

