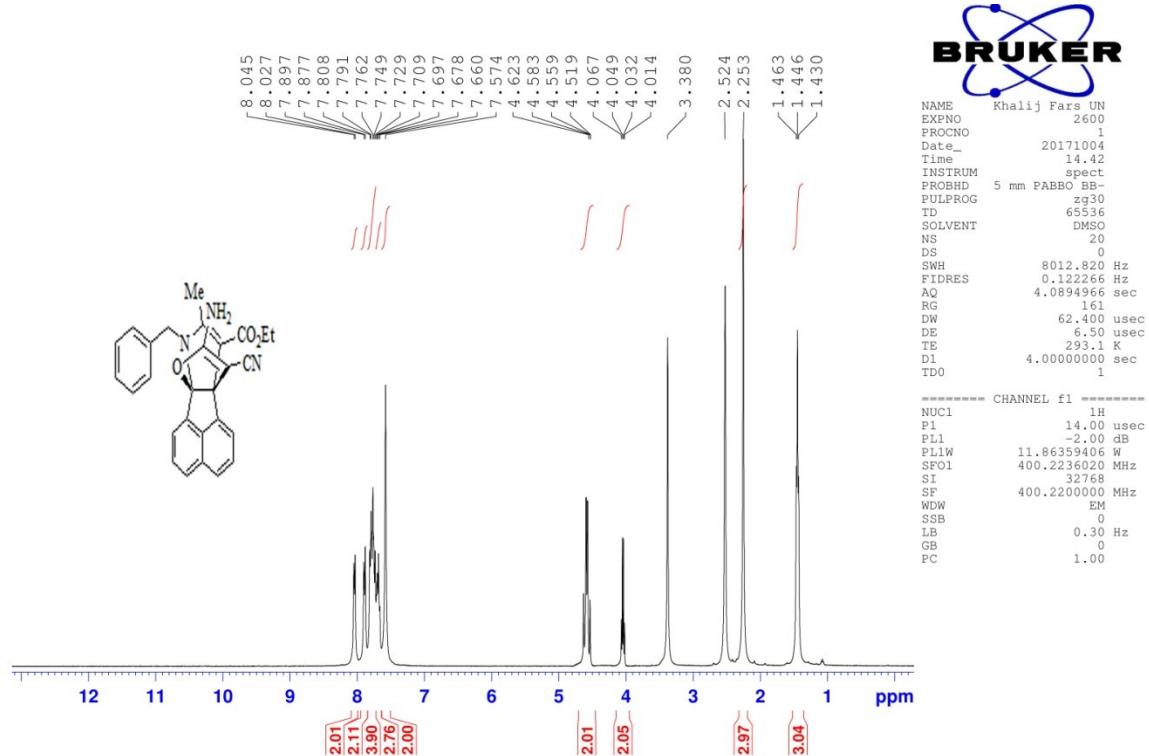
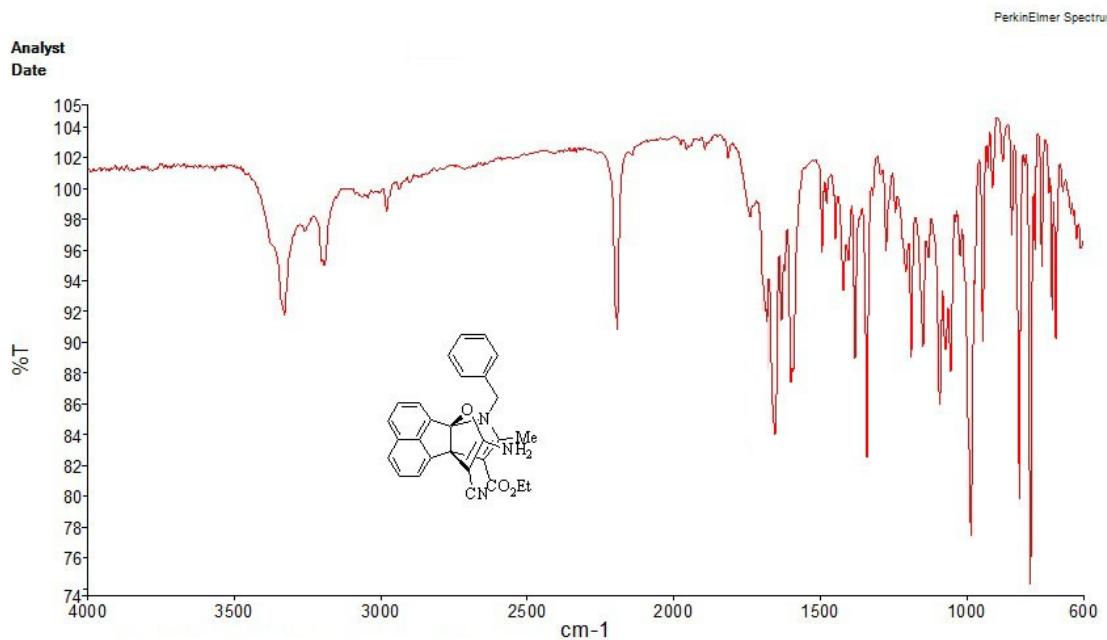
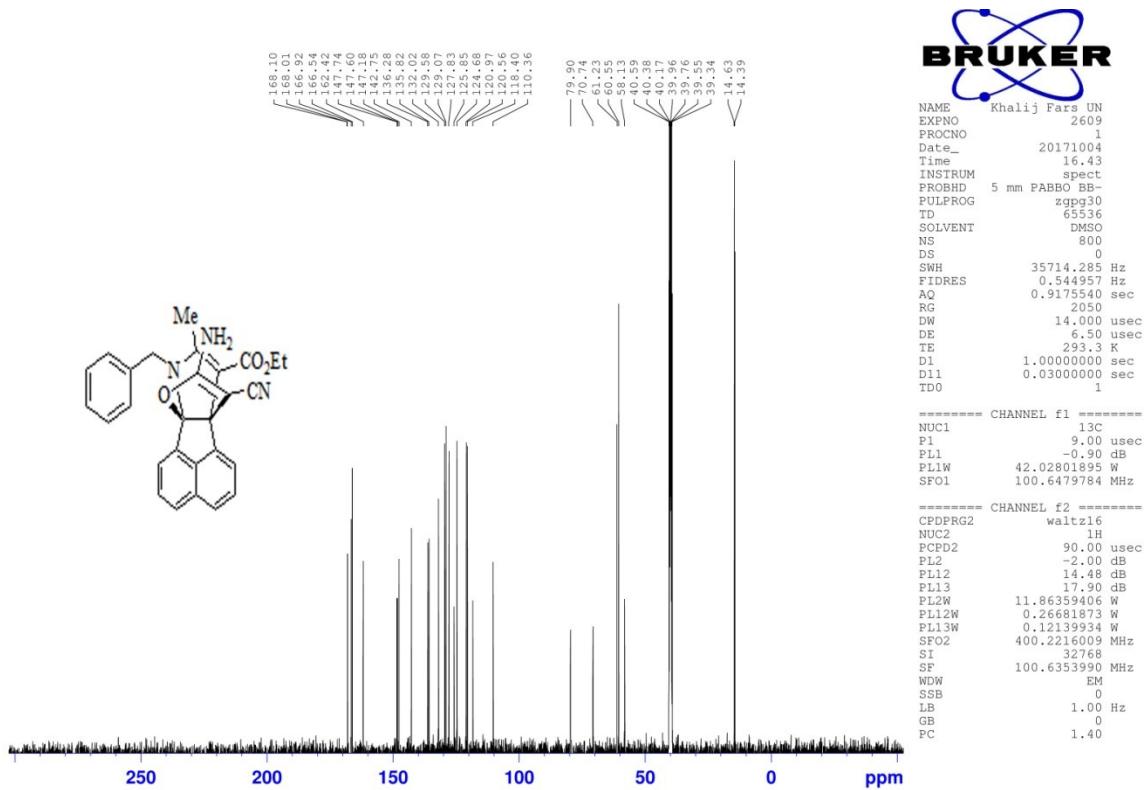


One-pot, sequential four-component synthesis of novel heterocyclic [3.3.3] propellane derivatives at room temperature

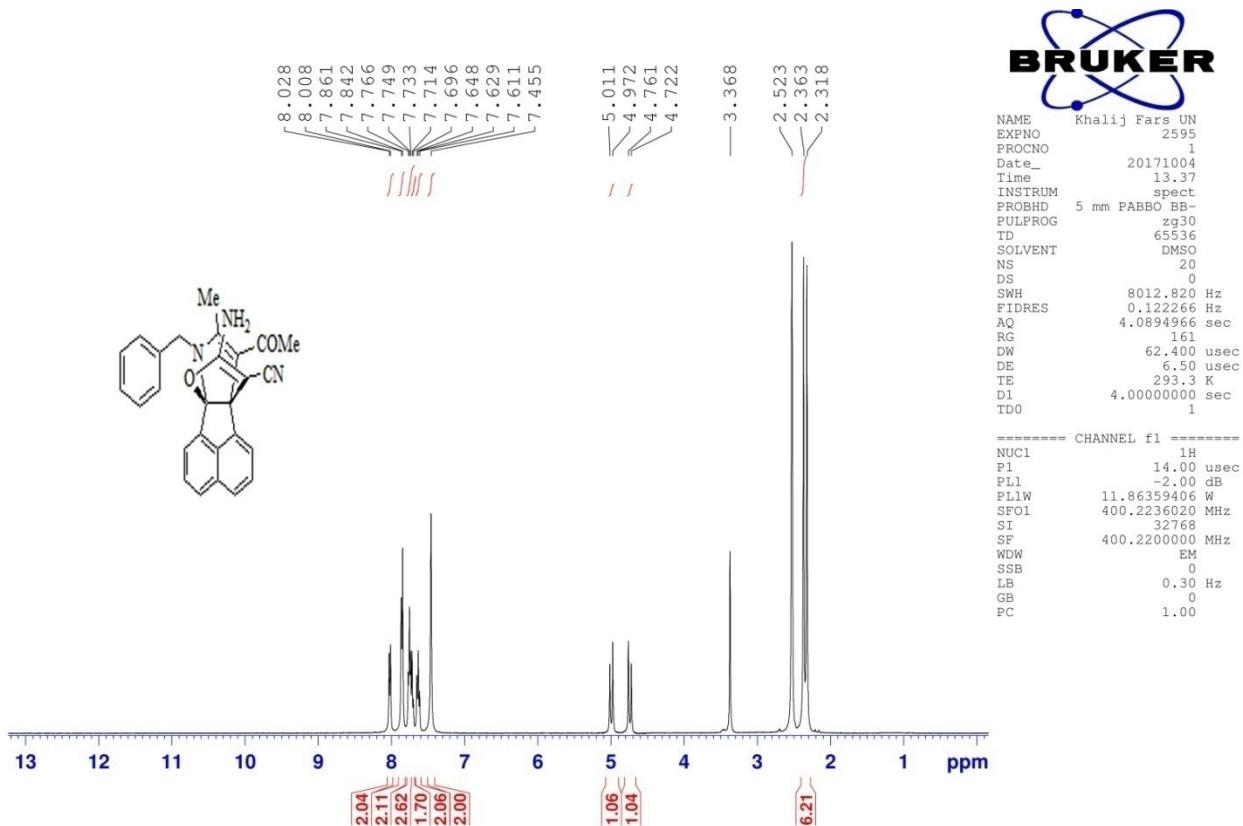
SUPPORTING INFORMATION

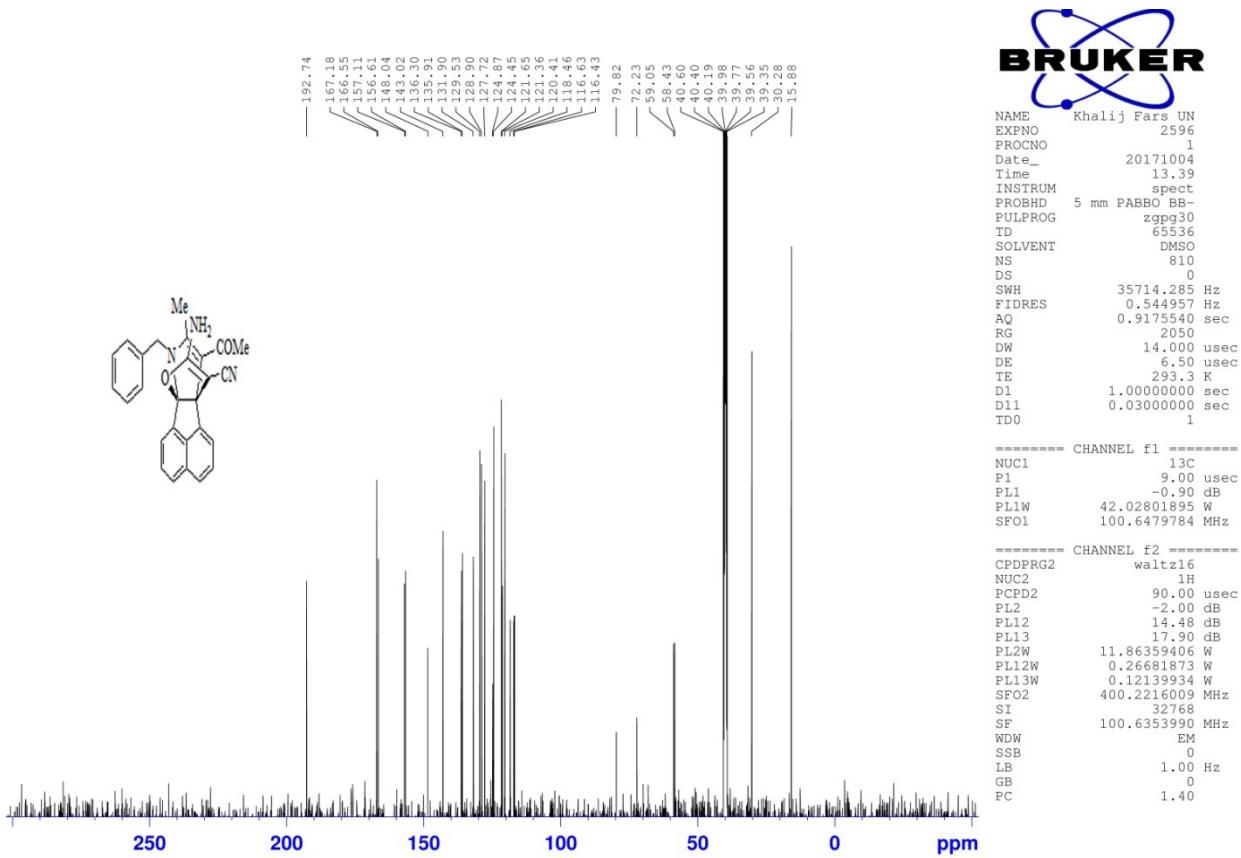
Ethyl-11-amino-7-benzyl-10-cyano-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-9-carboxylate (6a)



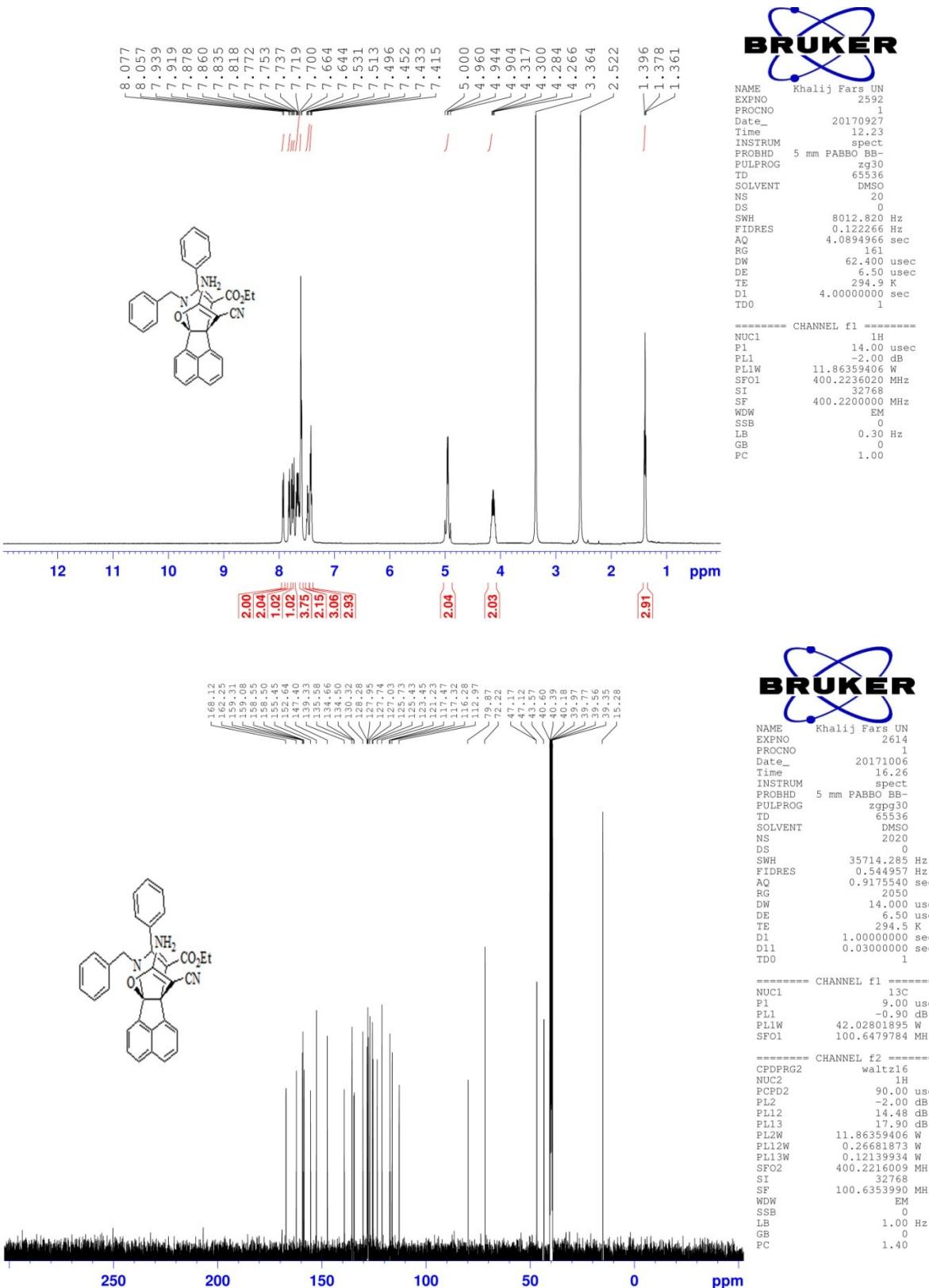


9-acetyl-11-amino-7-benzyl-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-10-carbonitrile (6b)

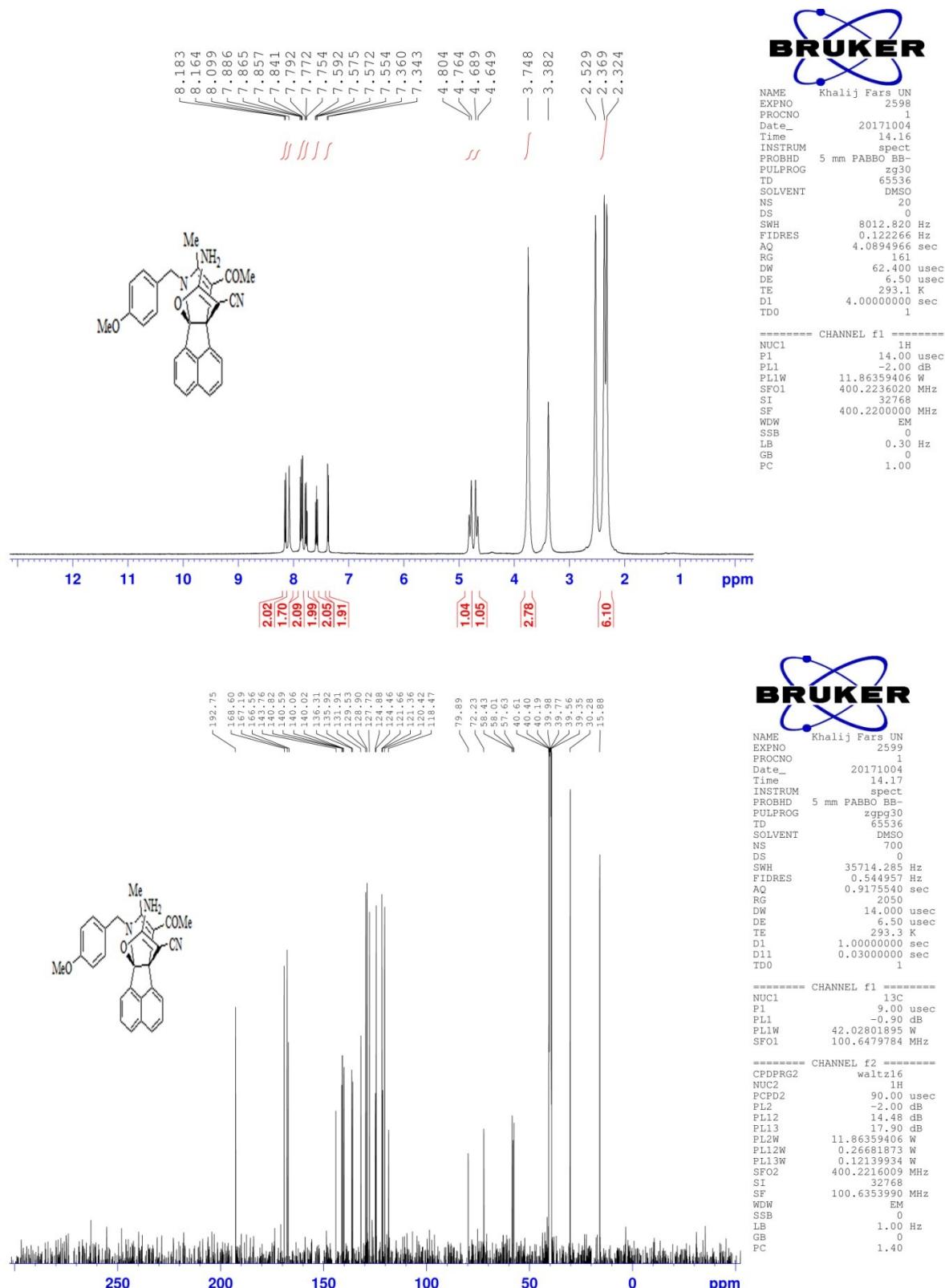


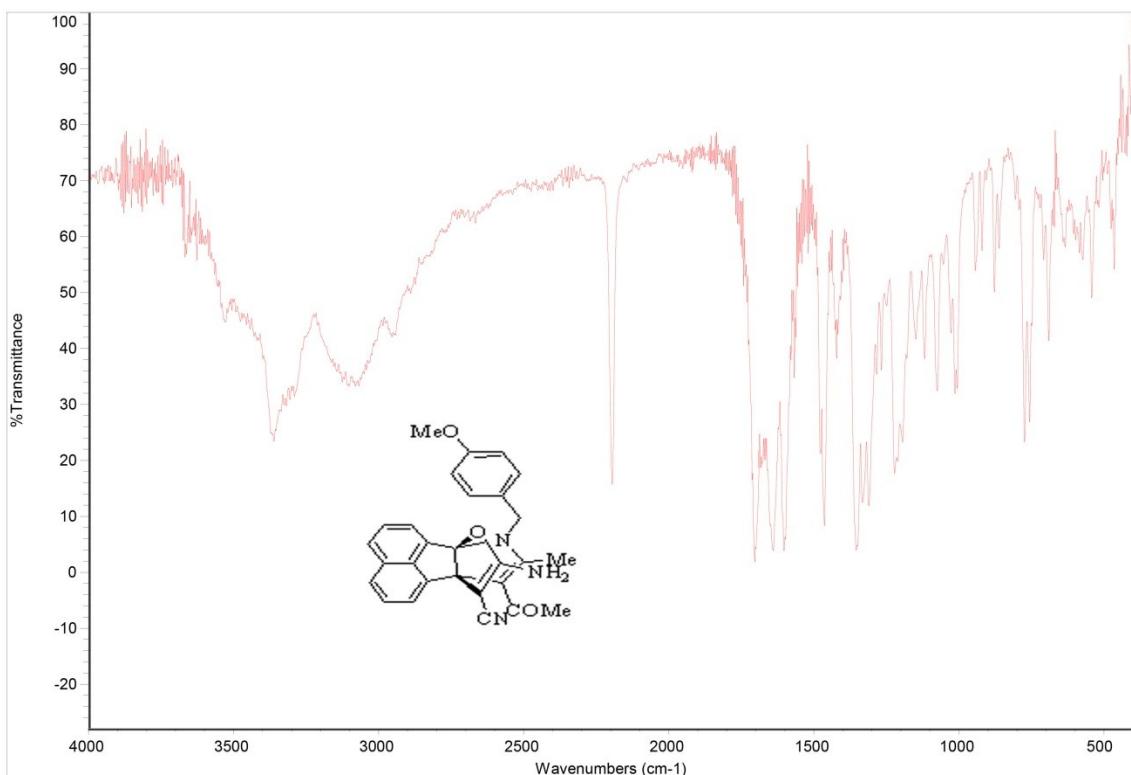


Ethyl-11-amino-7-benzyl-10-cyano-8-phenyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-9-carboxylate (6c)

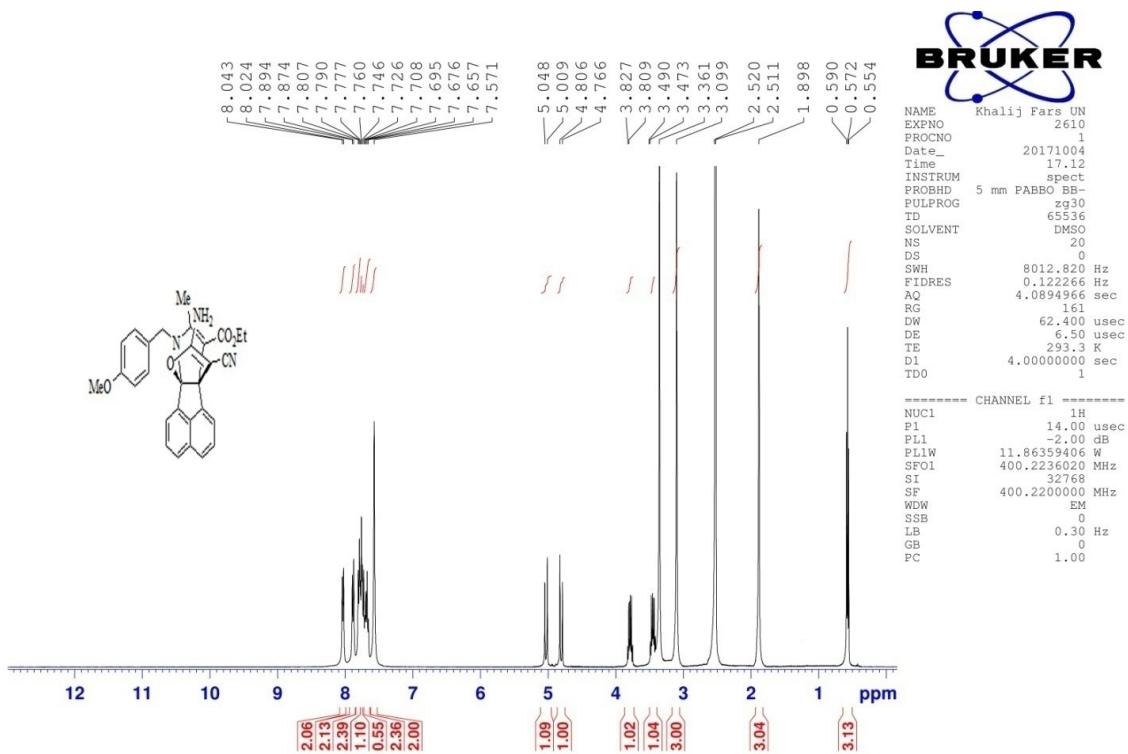


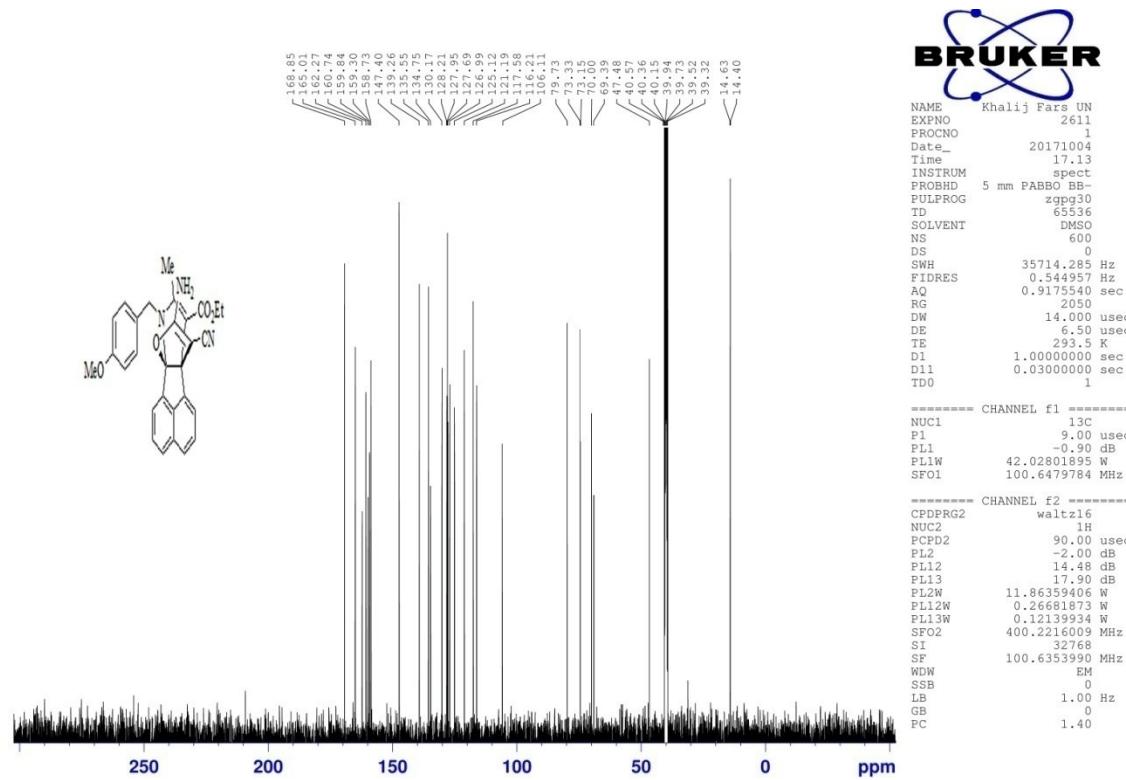
9-Acetyl-11-amino-7-(4-methoxybenzyl)-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-10-carbonitrile (6d)



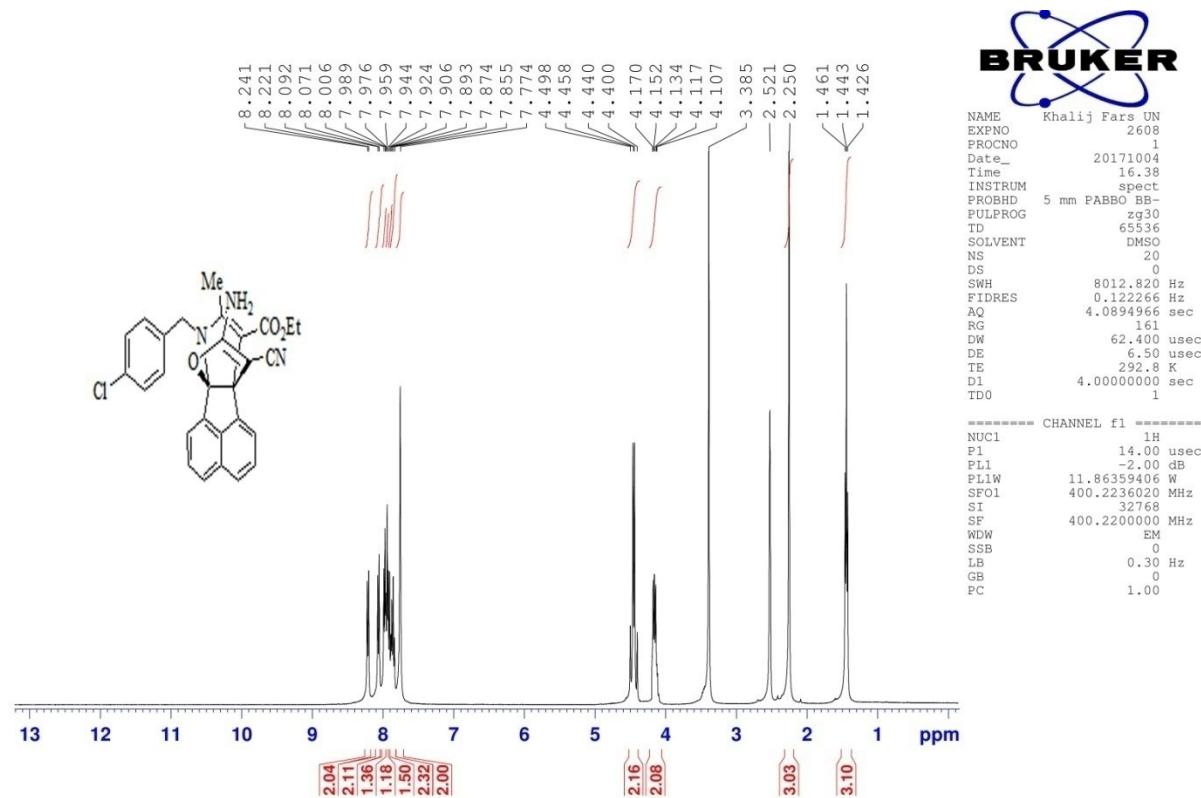


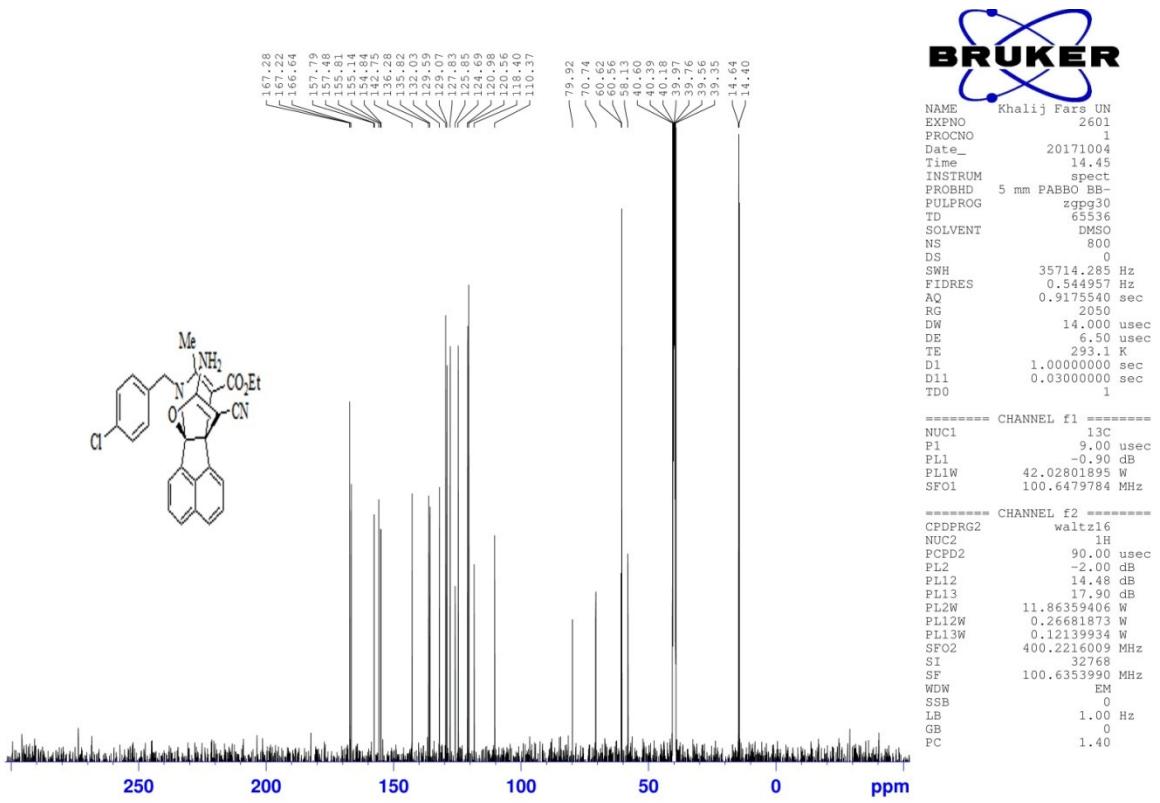
Ethyl-11-amino-10-cyano-7-(4-methoxybenzyl)-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-9-carboxylate (6e)



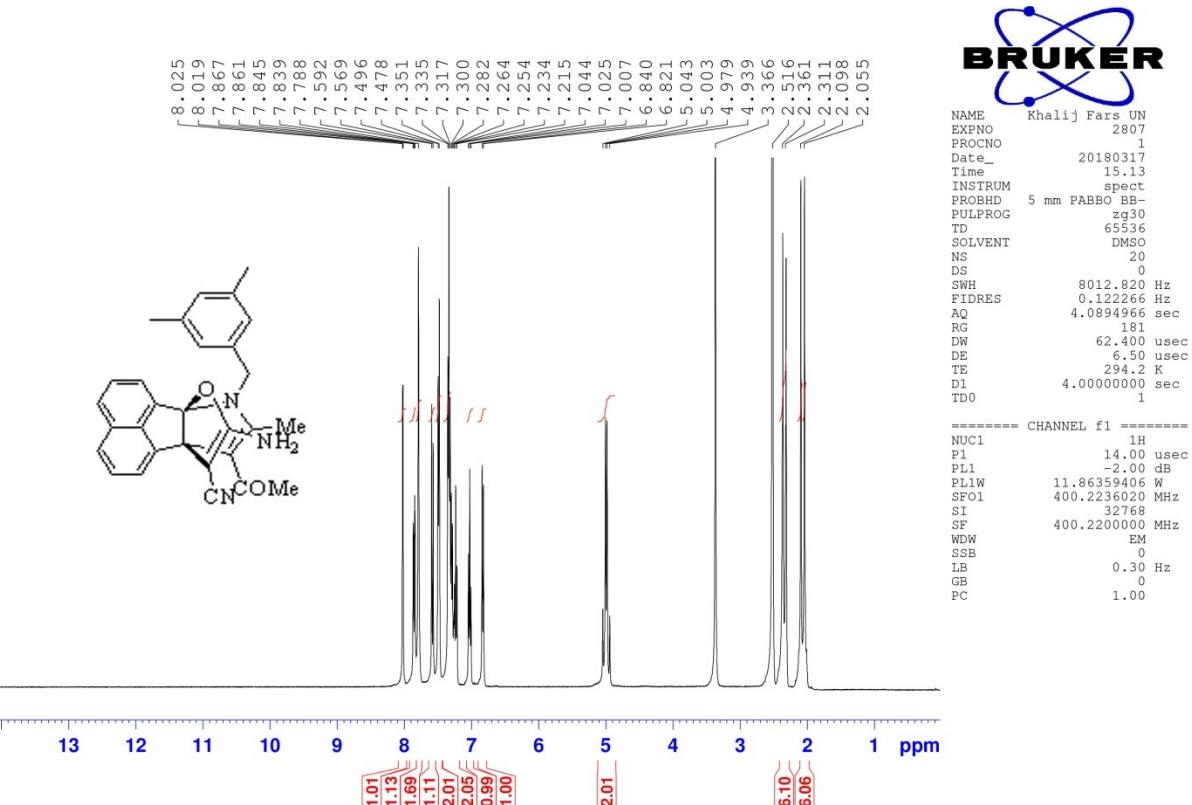


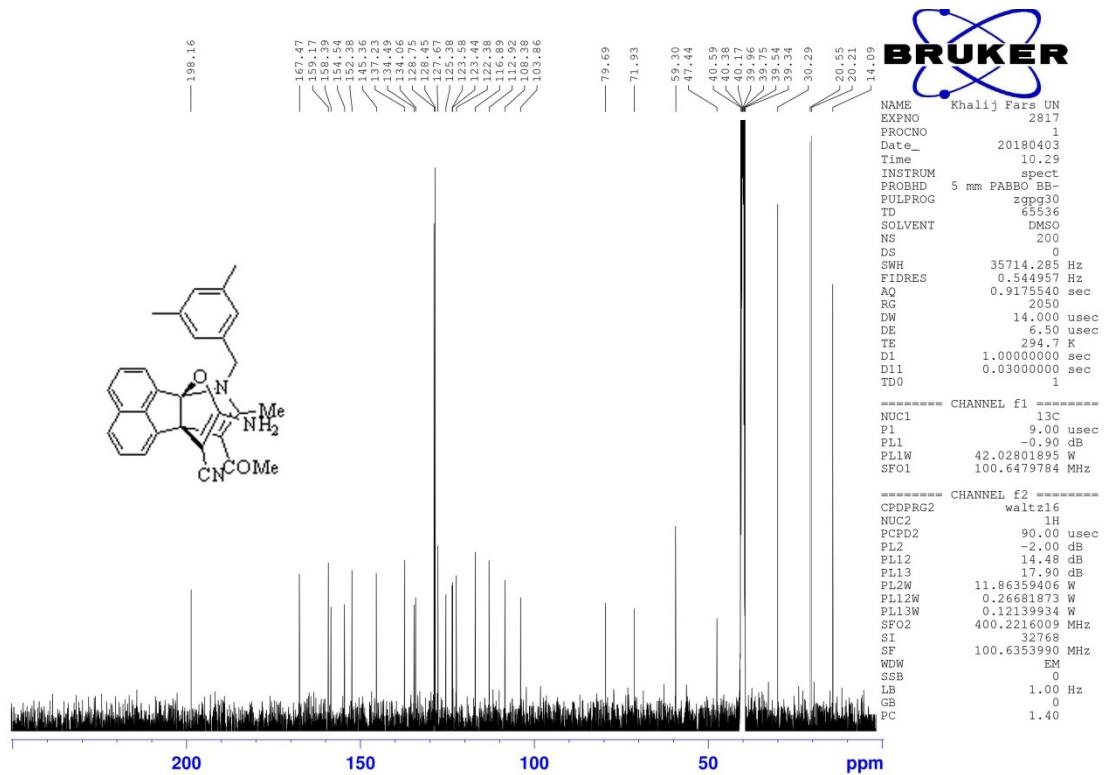
Ethyl-11-amino-7-(4-chlorobenzyl)-10-cyano-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-9-carboxylate (**6f**)



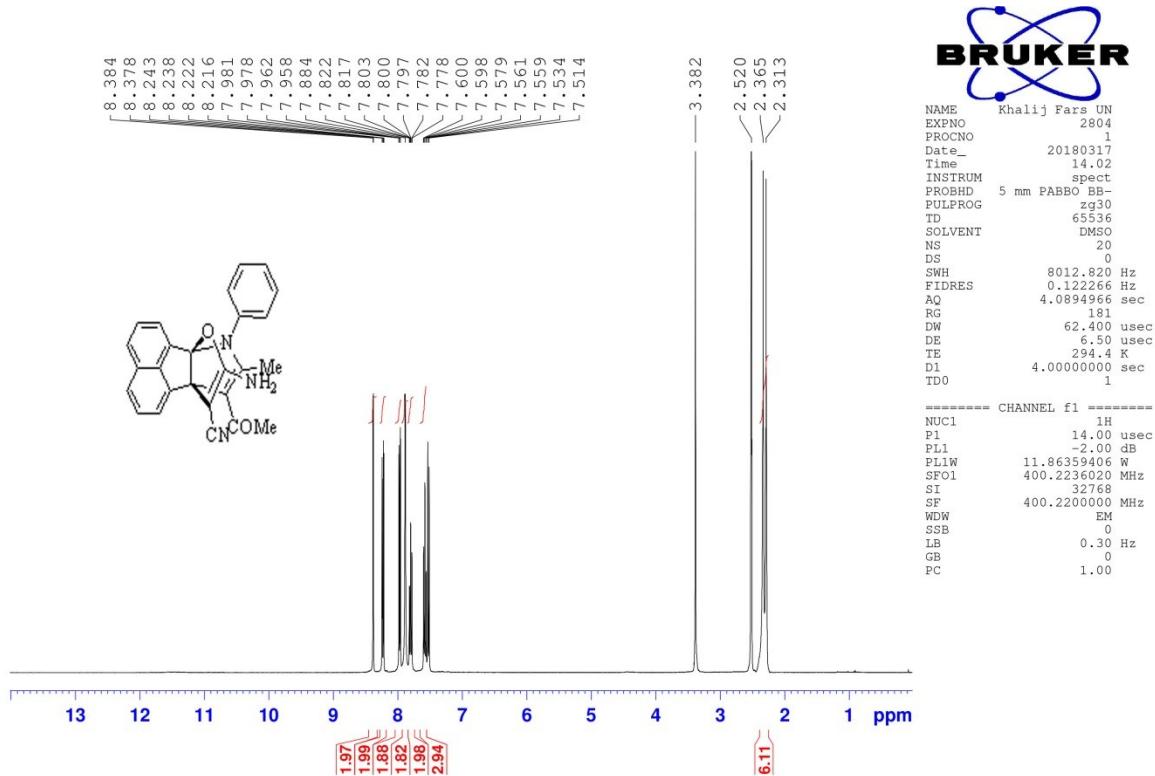


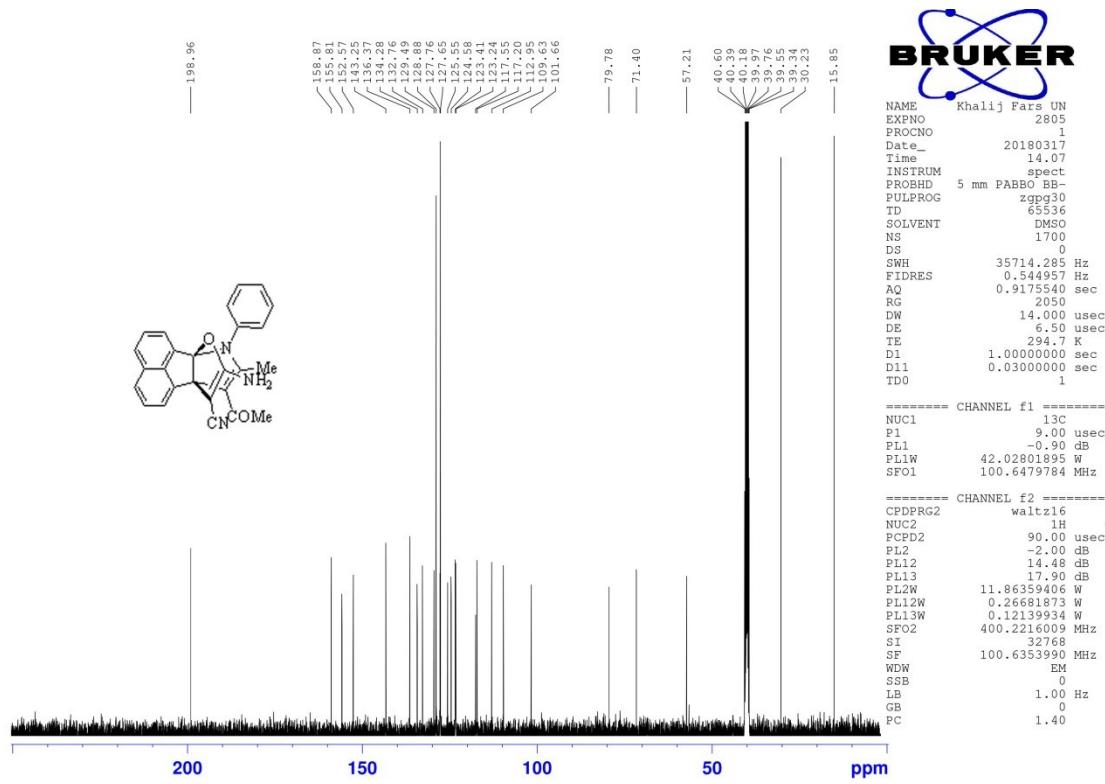
9-Acetyl-11-amino-7-(3,5-dimethylbenzyl)-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-10-carbonitrile (6g)



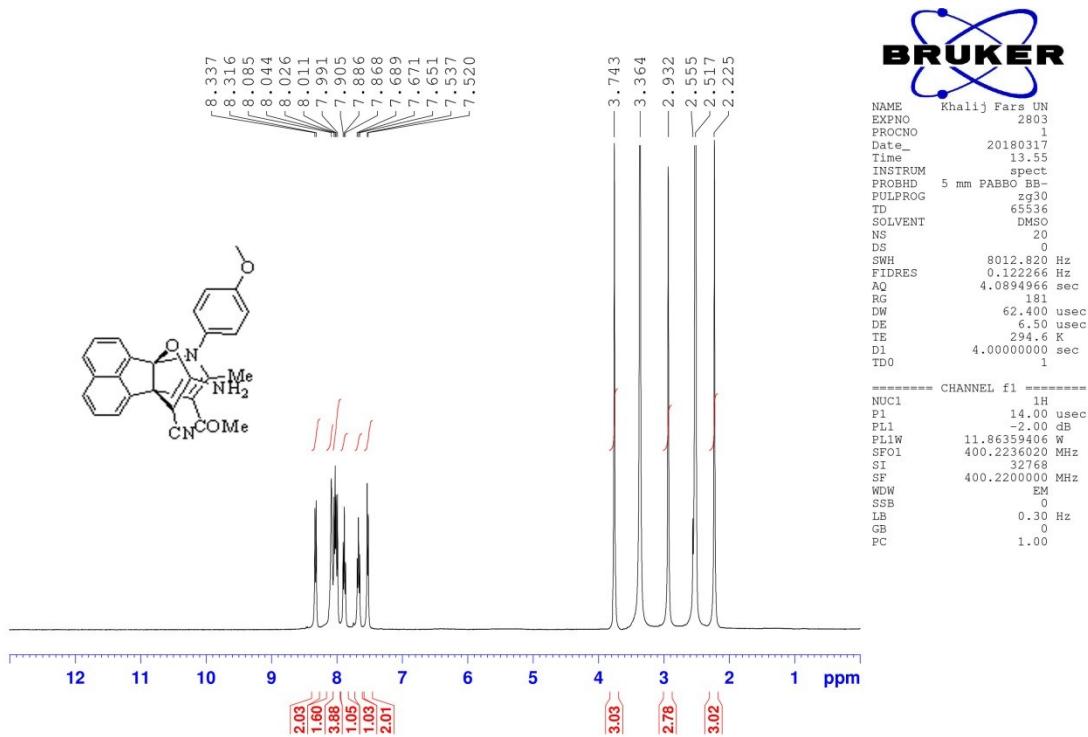


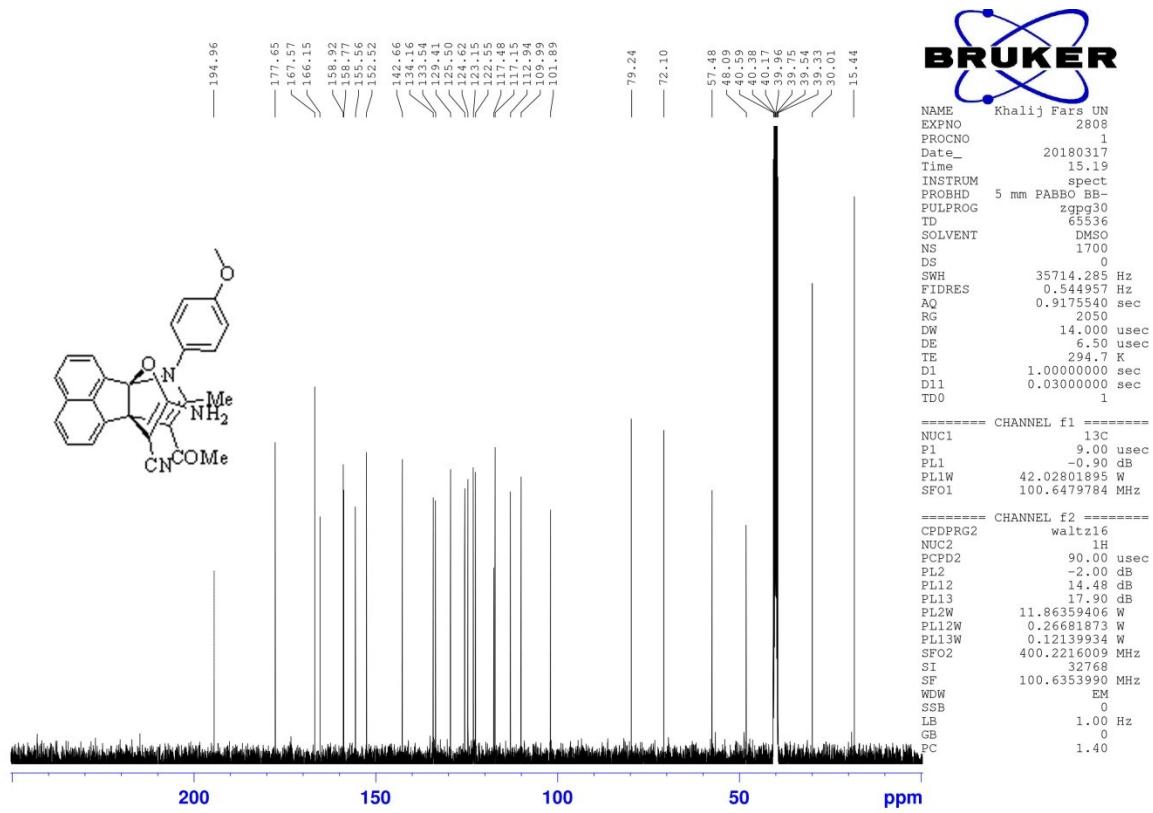
9-Acetyl-11-amino-8-methyl-7-phenyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-10-carbonitrile (6h)



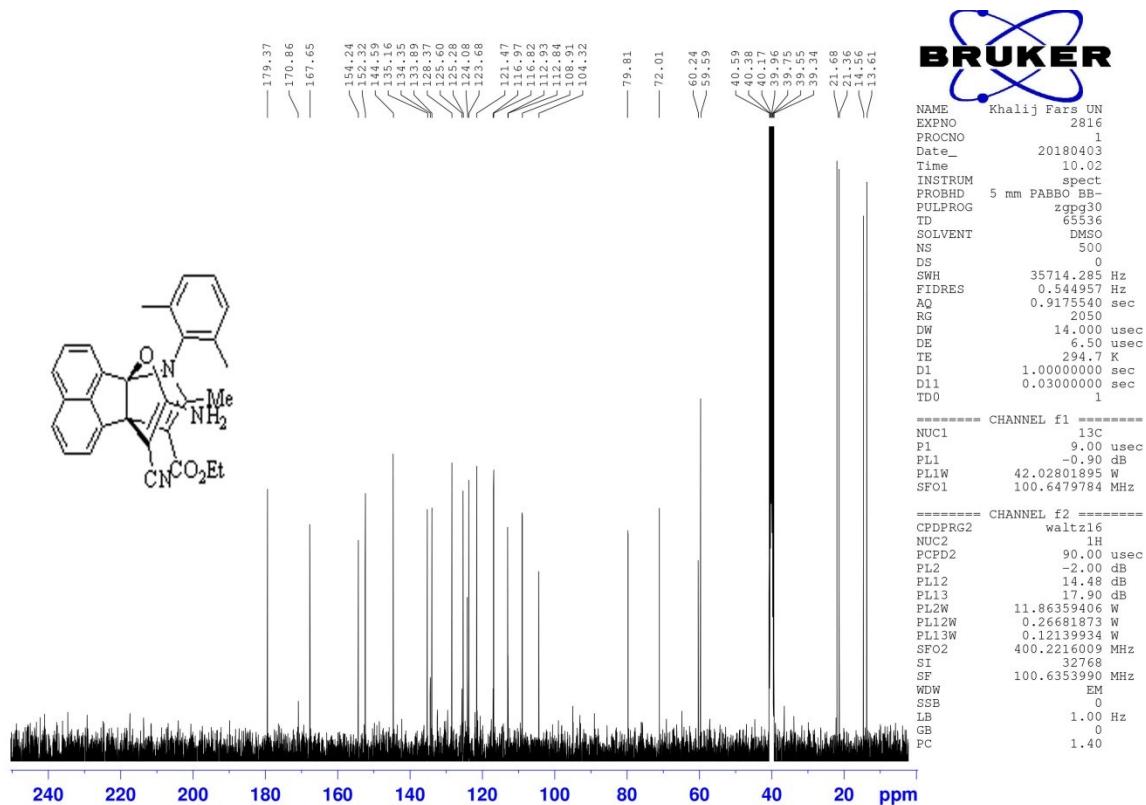
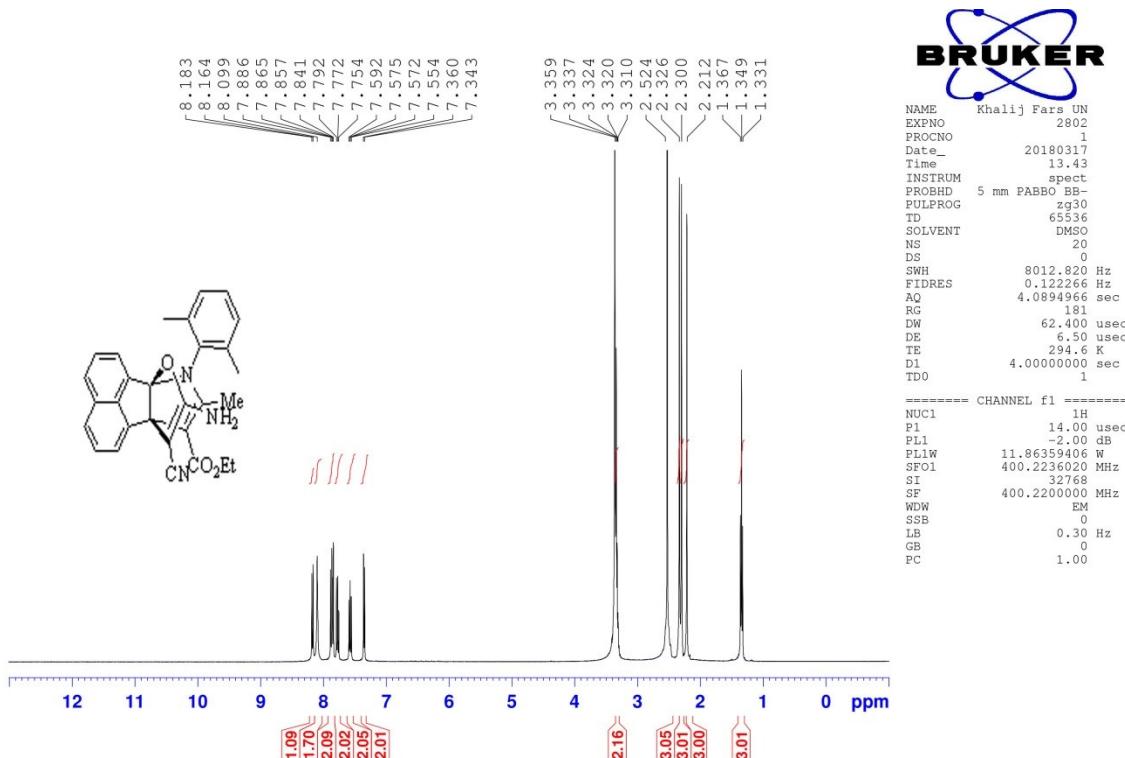


9-Acetyl-11-amino-7-(4-methoxyphenyl)-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-10-carbonitrile (6i)

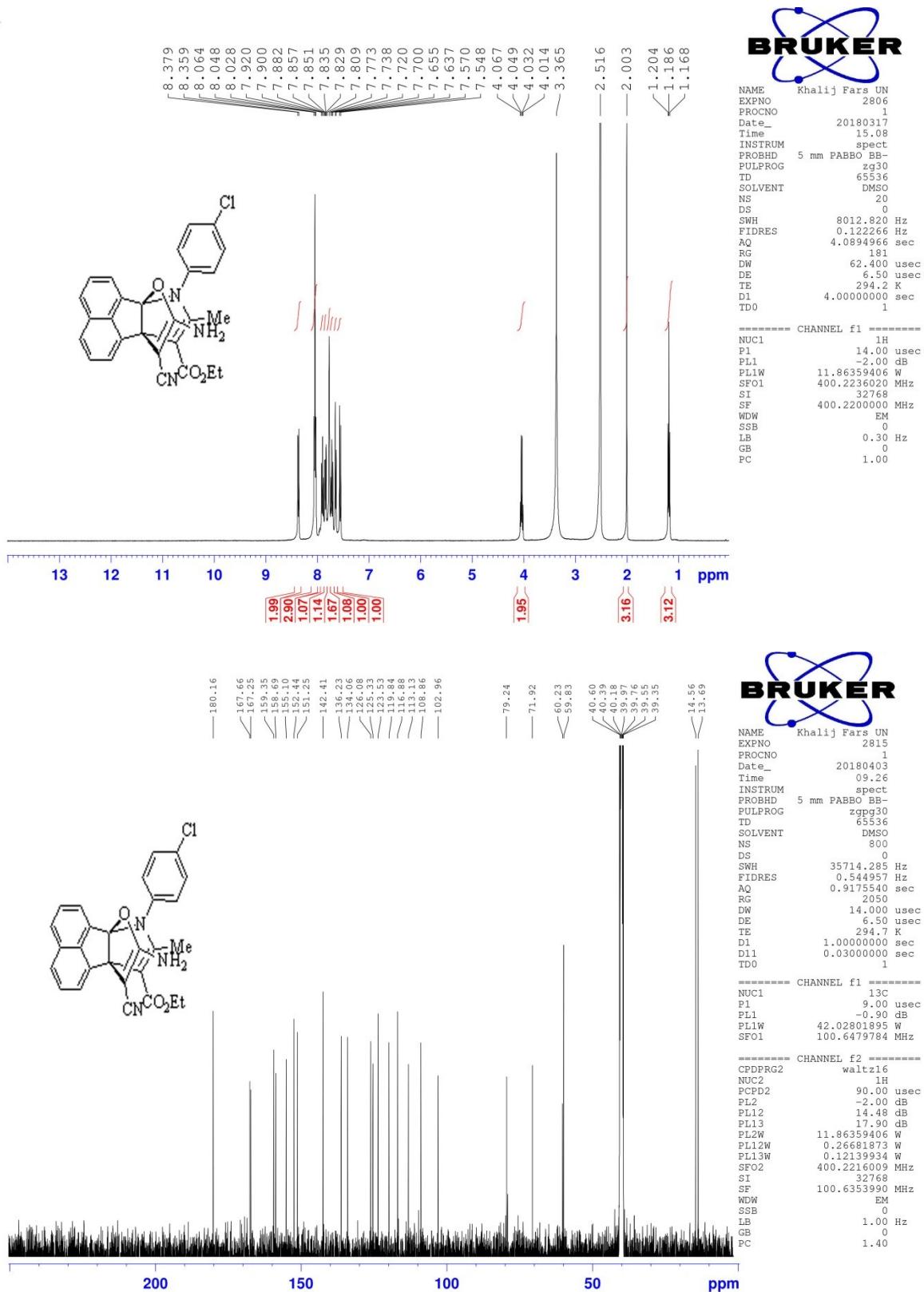




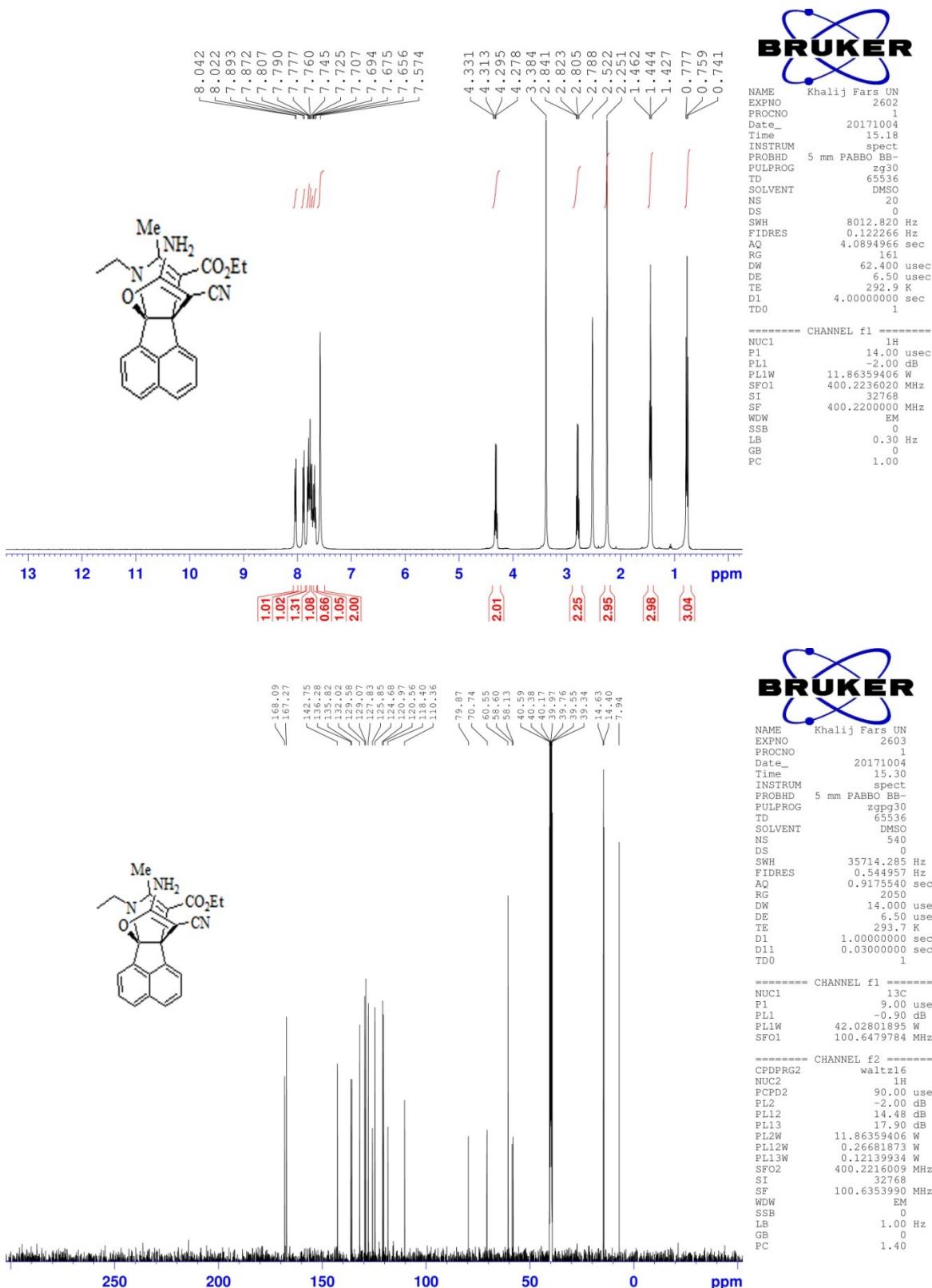
Ethyl 11-amino-10-cyano-7-(2,6-dimethylphenyl)-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-9-carboxylate (6j)

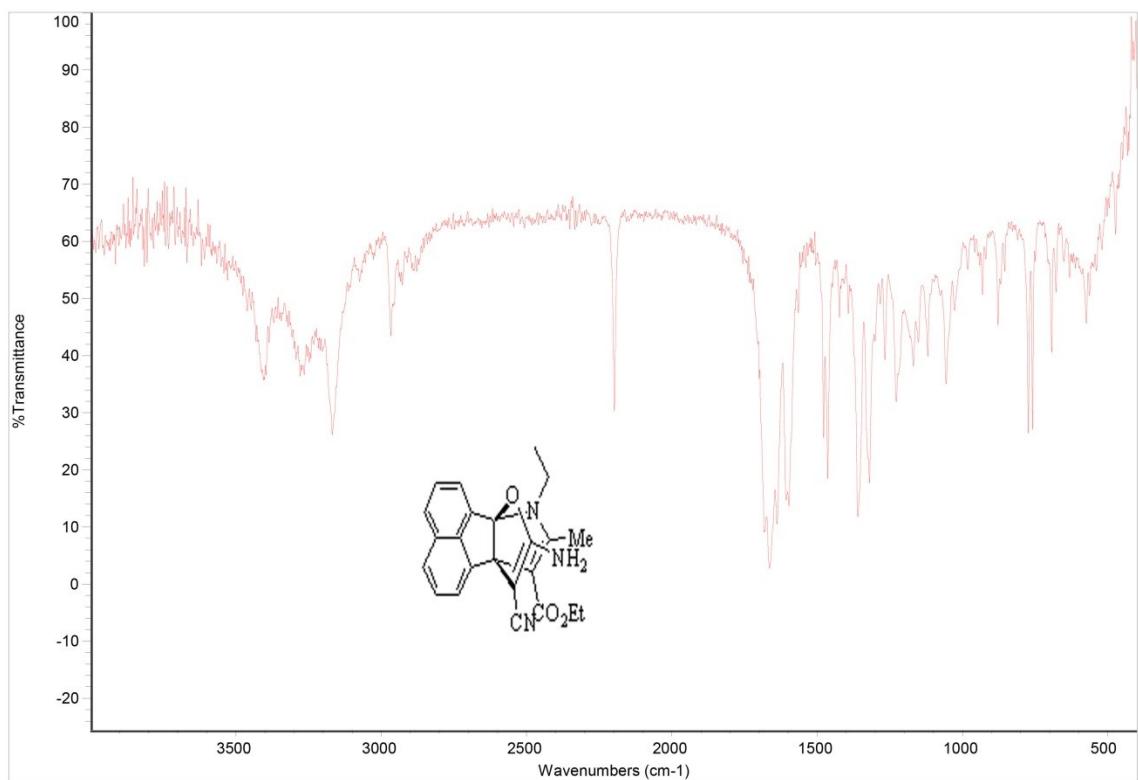


Ethyl 11-amino-7-(4-chlorophenyl)-10-cyano-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-9-carboxylate (6k)

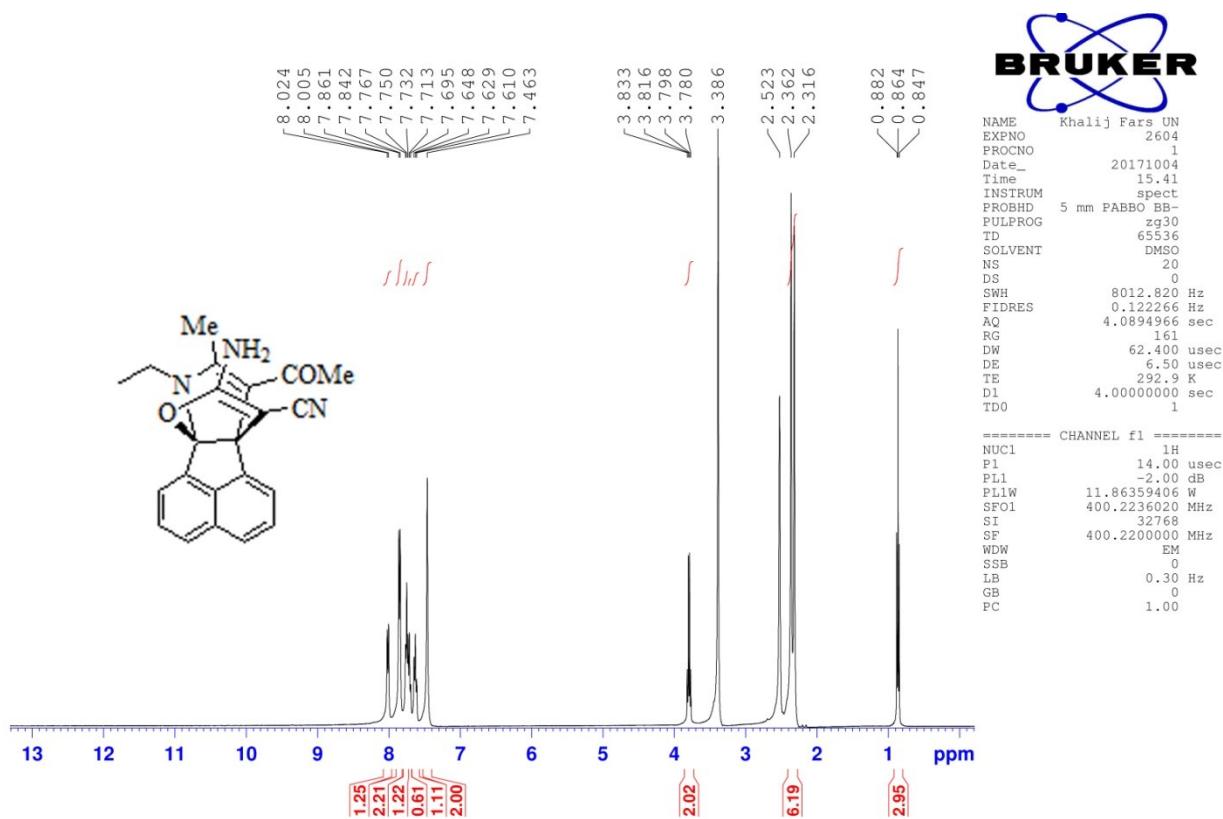


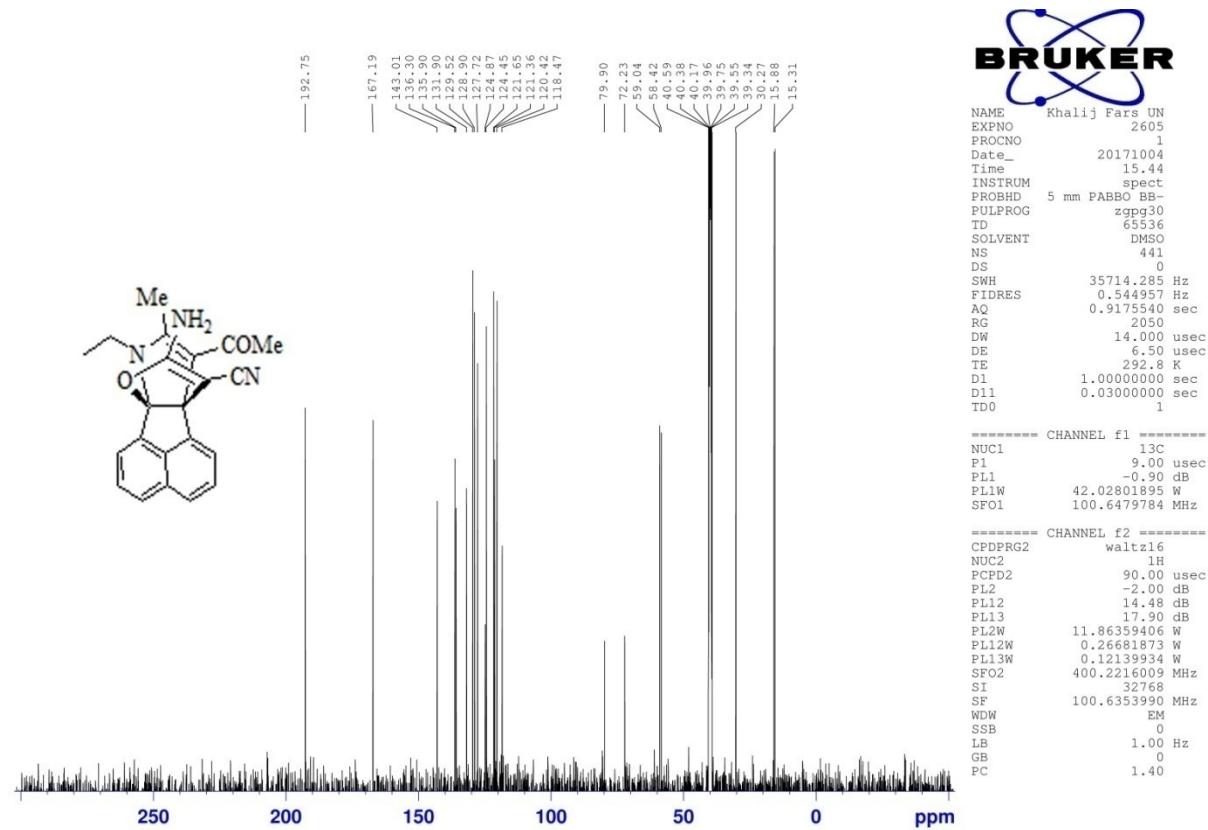
Ethyl-11-amino-10-cyano-7-ethyl-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-9-carboxylate
(6l)



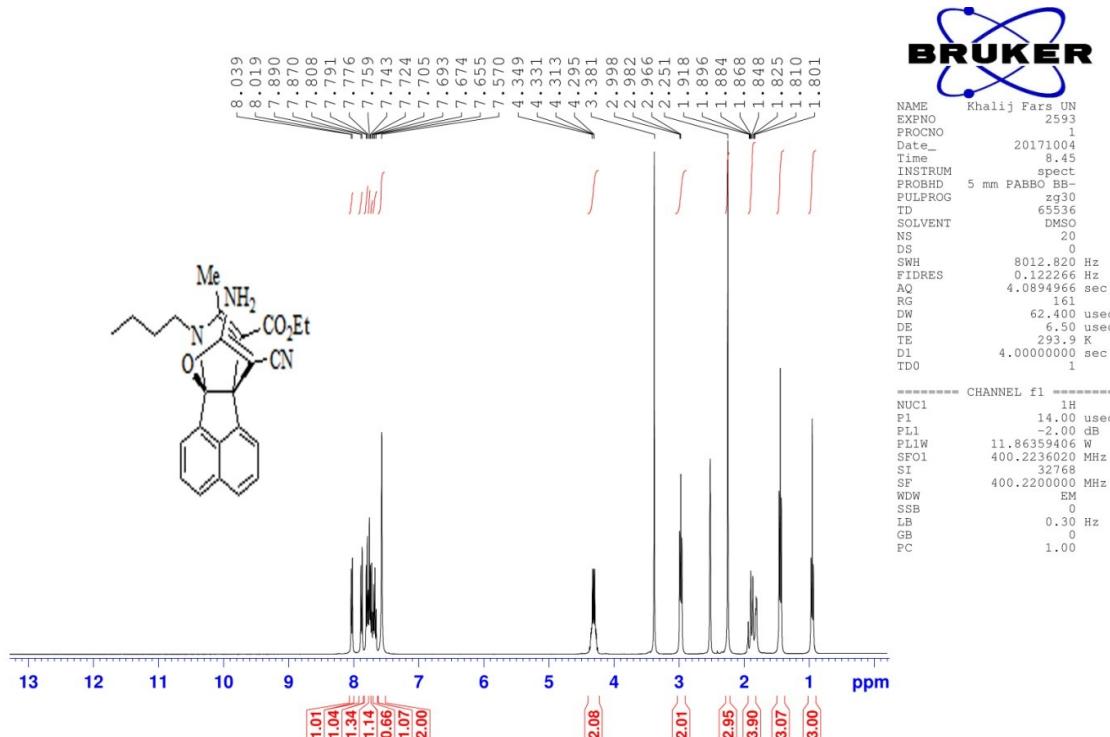


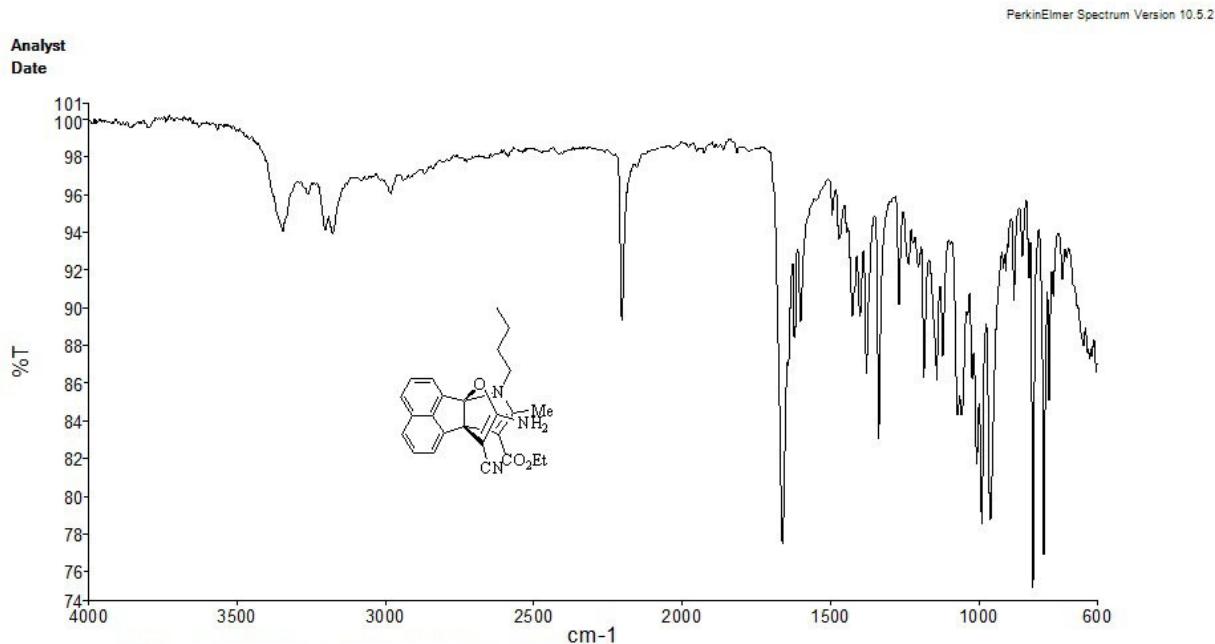
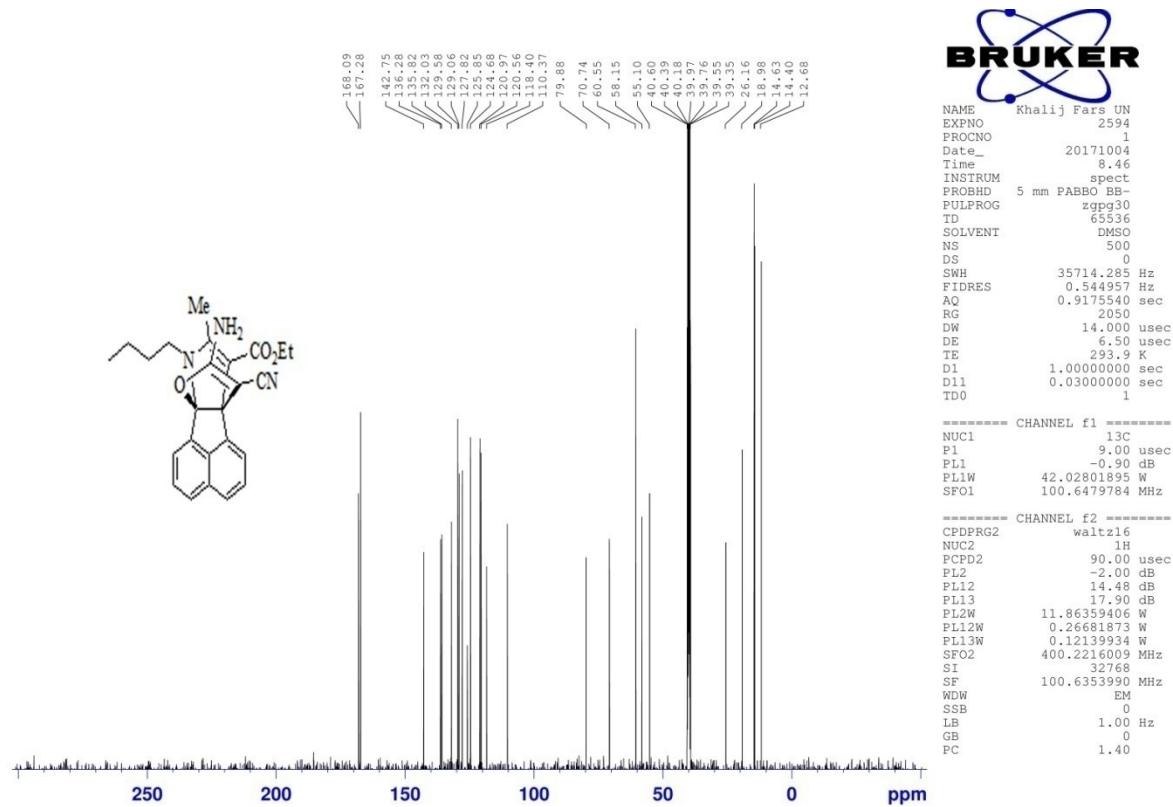
9-Acetyl-11-amino-7-ethyl-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-10-carbonitrile (6m)



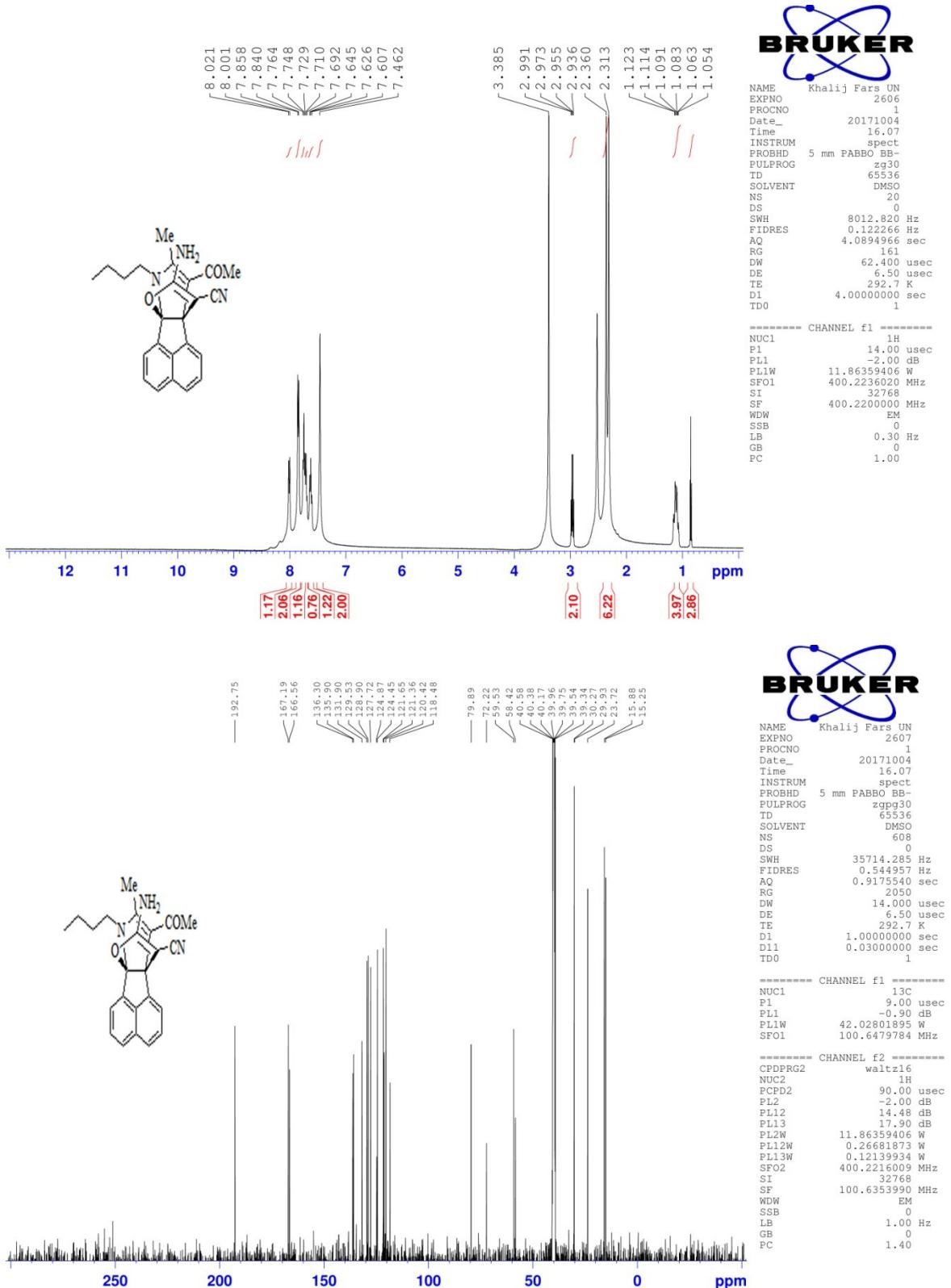


Ethyl-11-amino-7-butyl-10-cyano-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-9-carboxylate (6n)

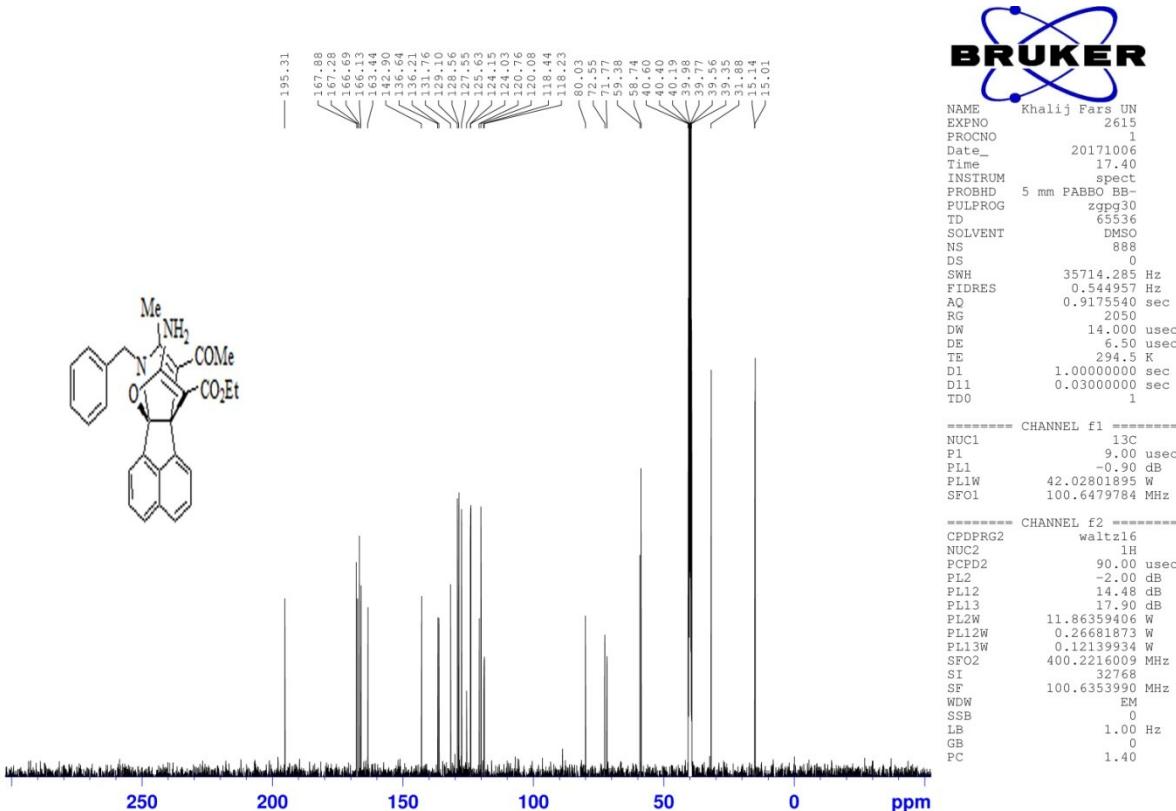
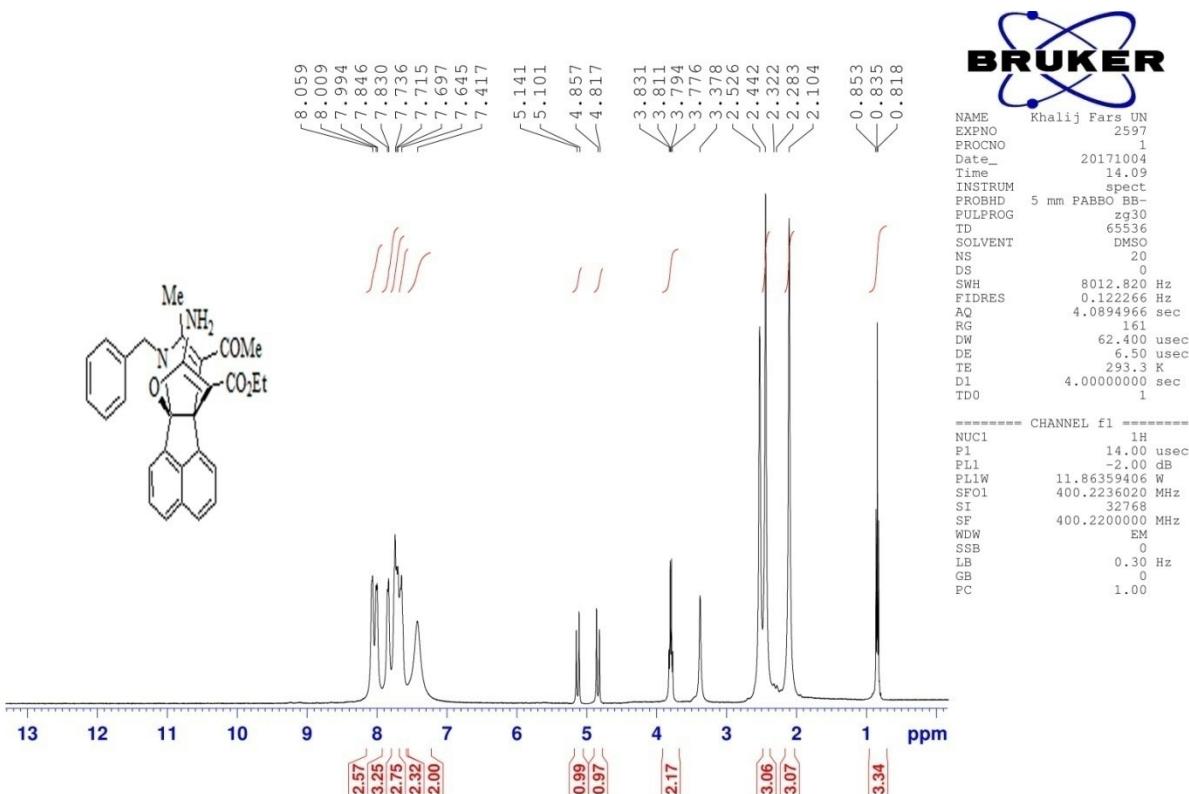




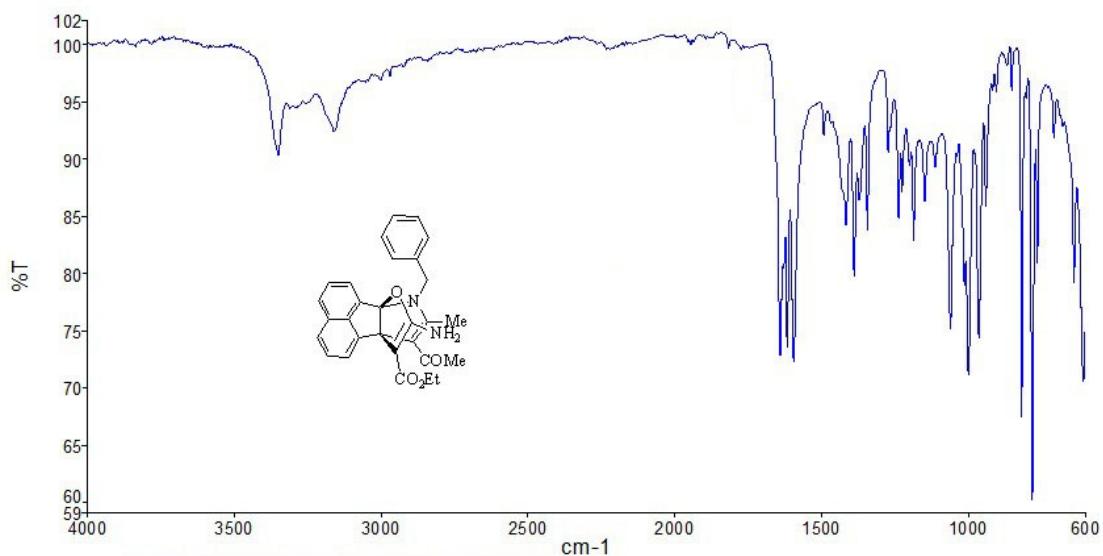
9-Acetyl-11-amino-7-butyl-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-10-carbonitrile (6o)



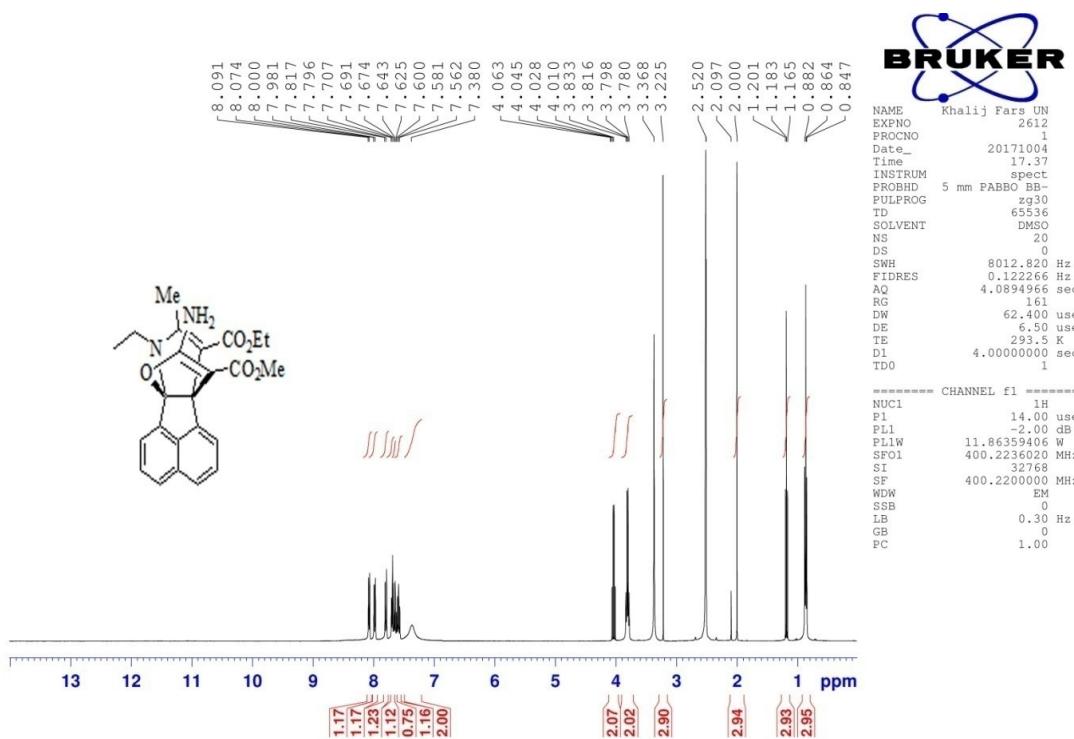
Ethyl-9-acetyl-11-amino-7-benzyl-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-10-carboxylate (6p)

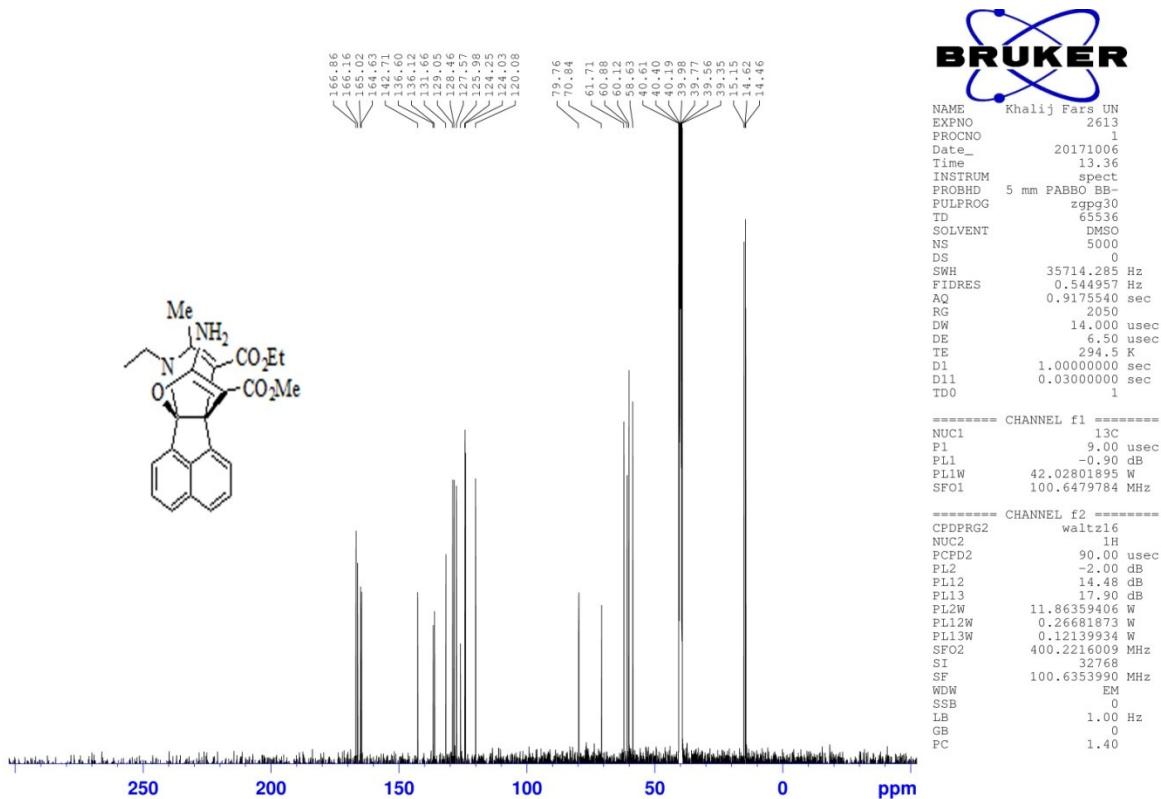


Analyst
Date



9-Ethyl-10-methyl-11-amino-7-ethyl-8-methyl-7H-6b,9a-(epoxyetheno)acenaphtho[1,2-b]pyrrole-9,10-dicarboxylate (6q)





PerkinElmer Spectrum Version 10.5.2

Analyst Date

