

Flexible Synthesis of Polyfunctionalised 3-Fluoropyrroles.

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Supporting Information

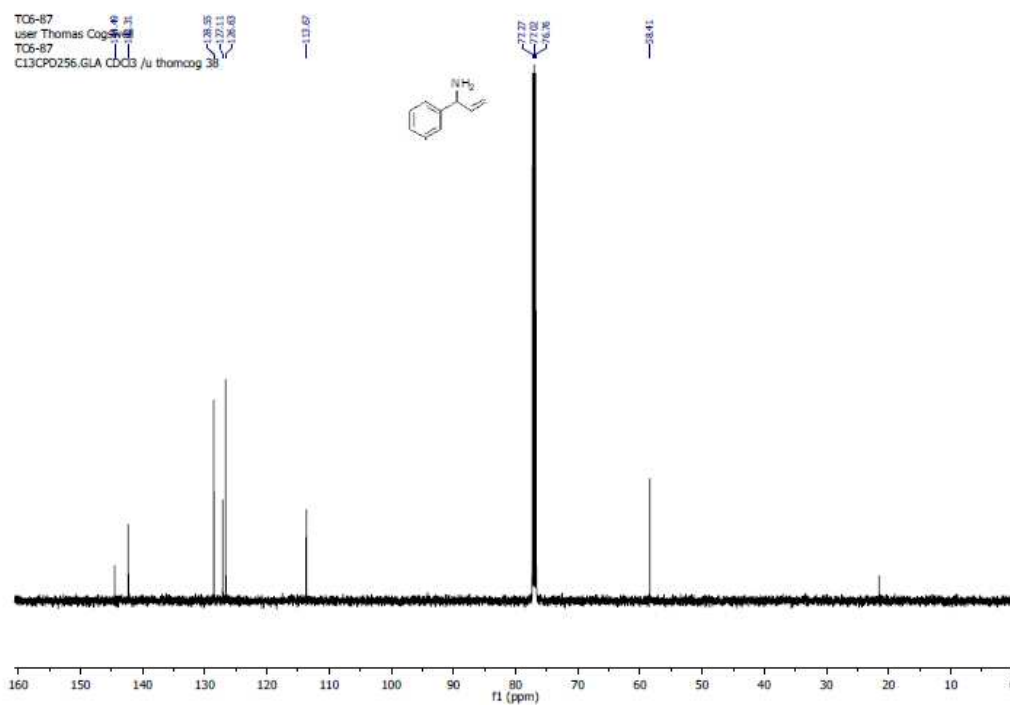
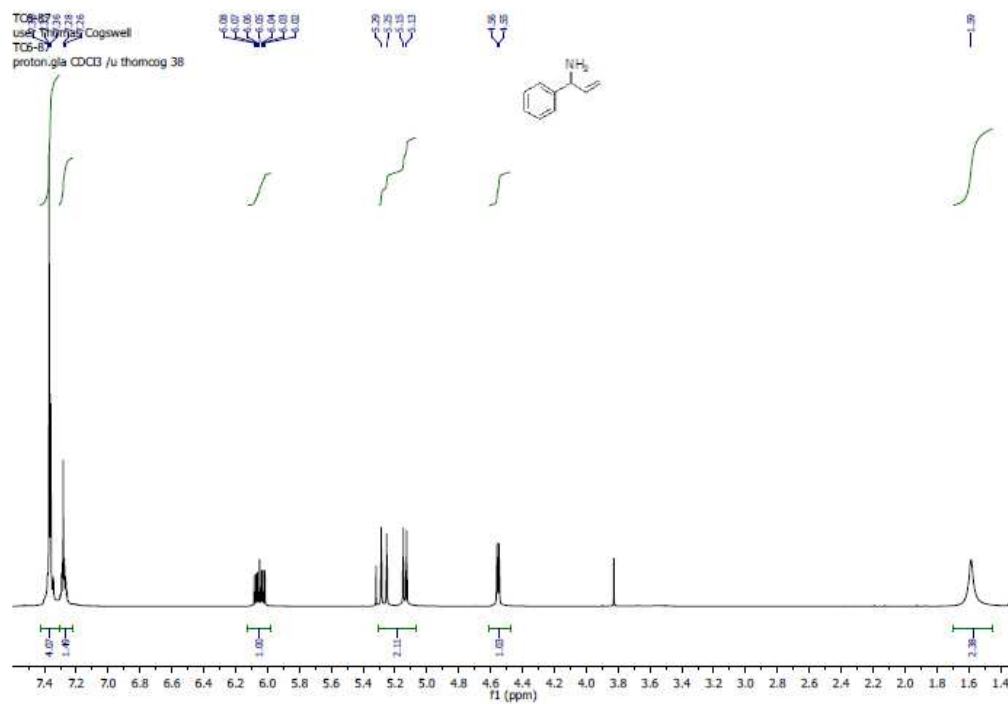
Spectral Data

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Tel: +86 (0)512 88161432.

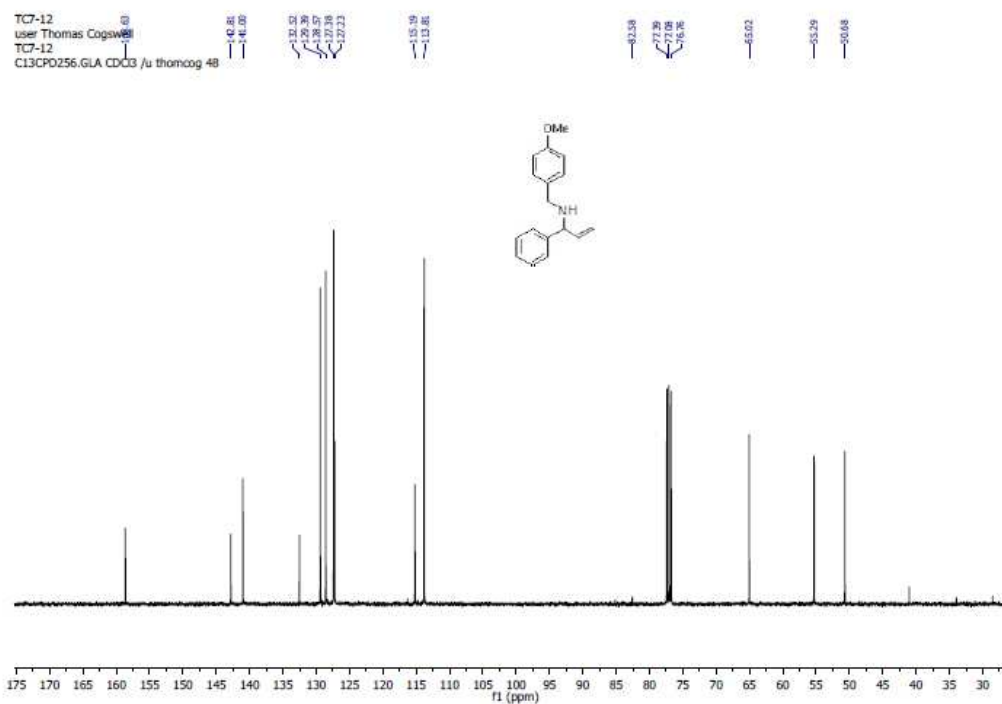
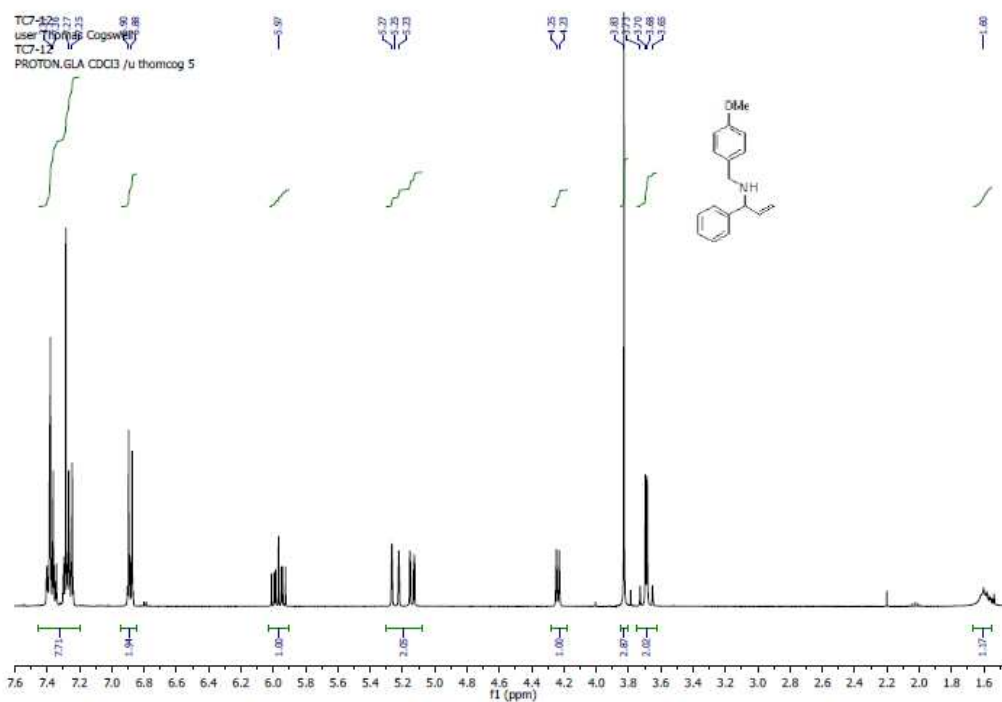
^b School of Chemistry, University of Glasgow, Glasgow, G12 8QQ, UK.

^c Oncology iMed, AstraZeneca, Alderley Park, Macclesfield, Cheshire SK10 4TG, UK.

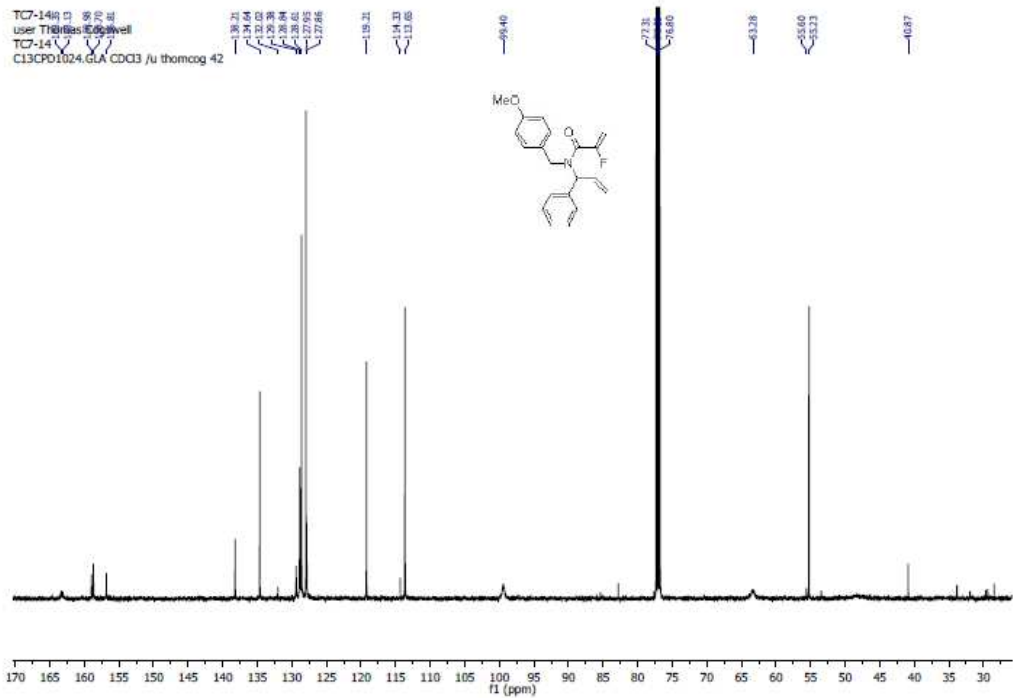
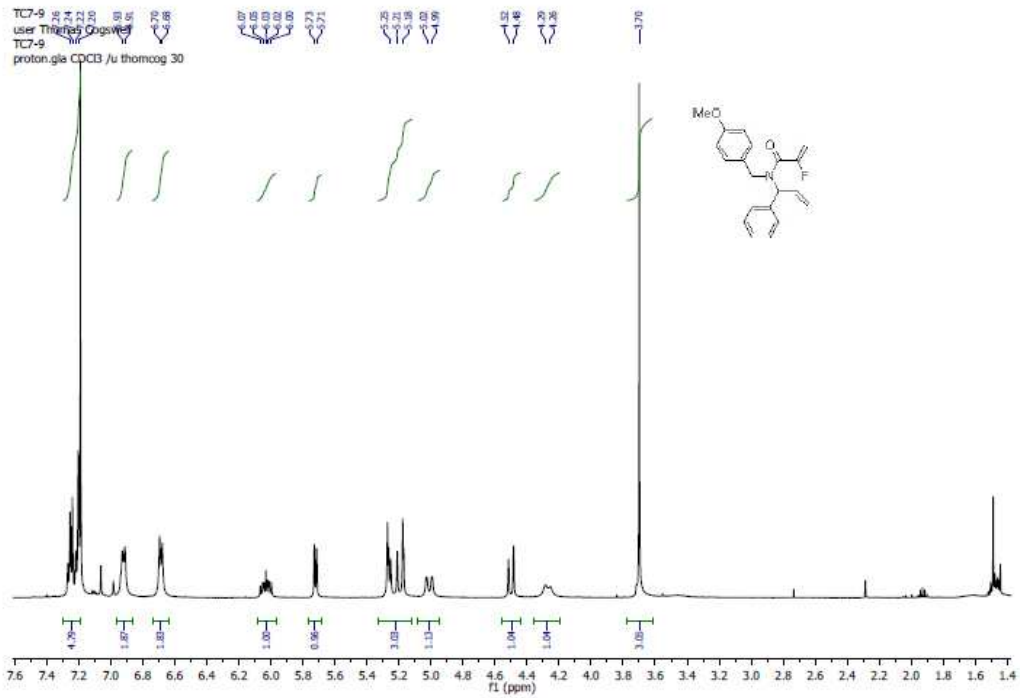
1-Phenyl-2-propenylamine, 4.



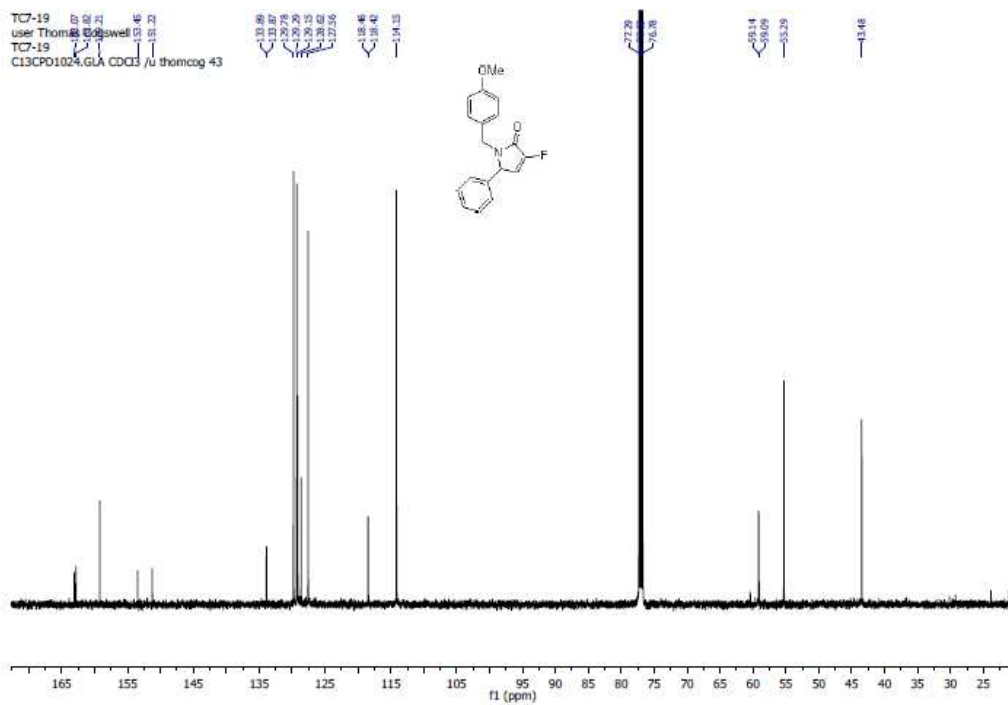
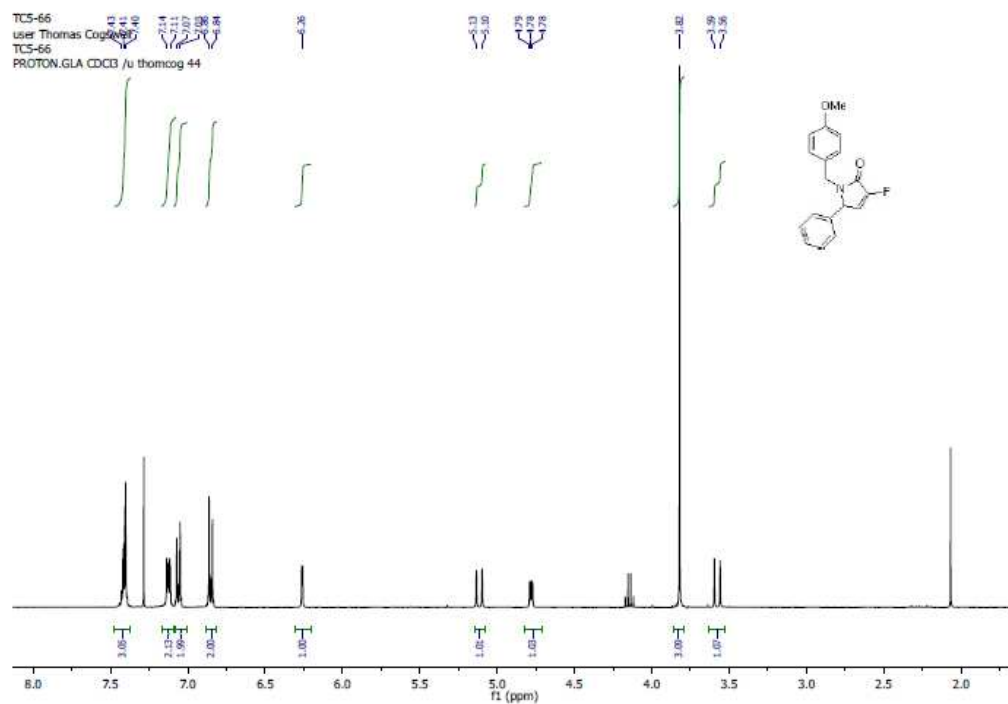
N-(4'-Methoxyphenylmethyl)-1-phenyl-2-propenylamine, 5.



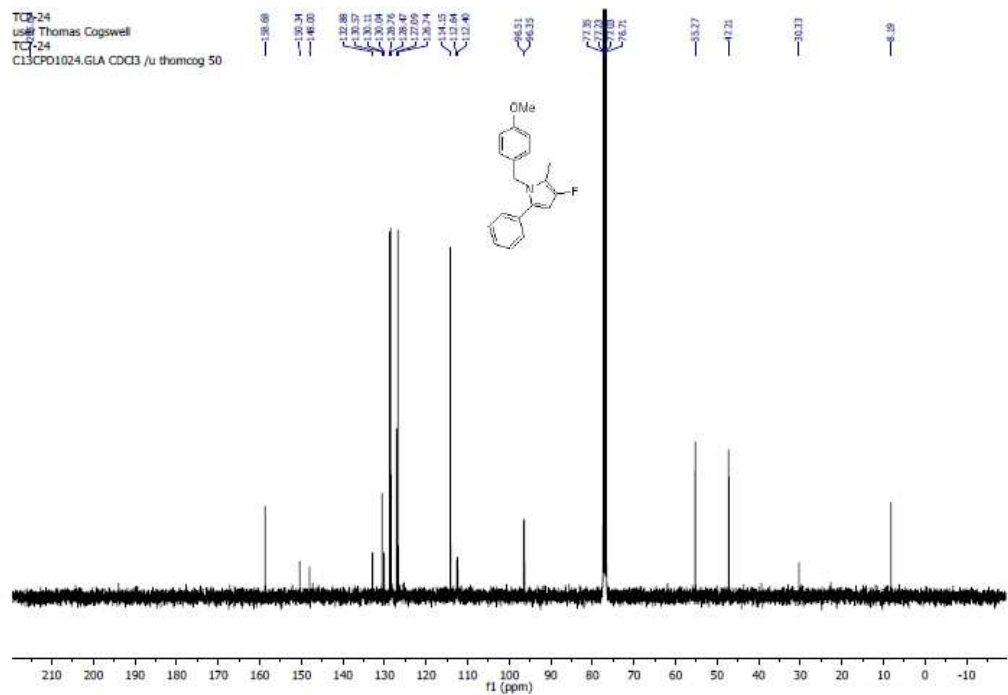
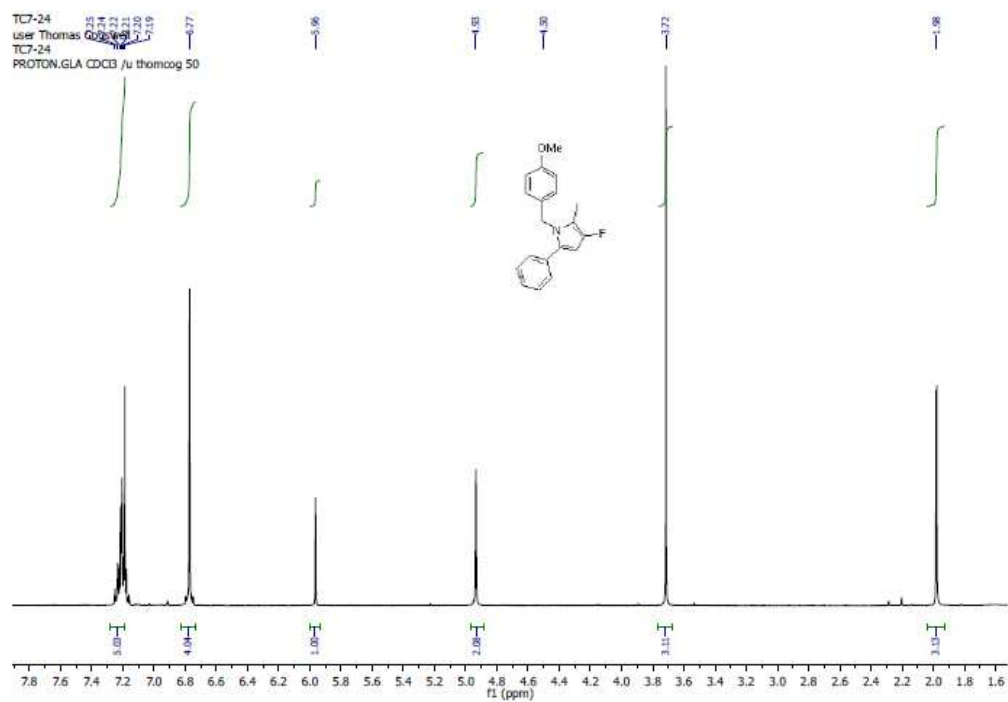
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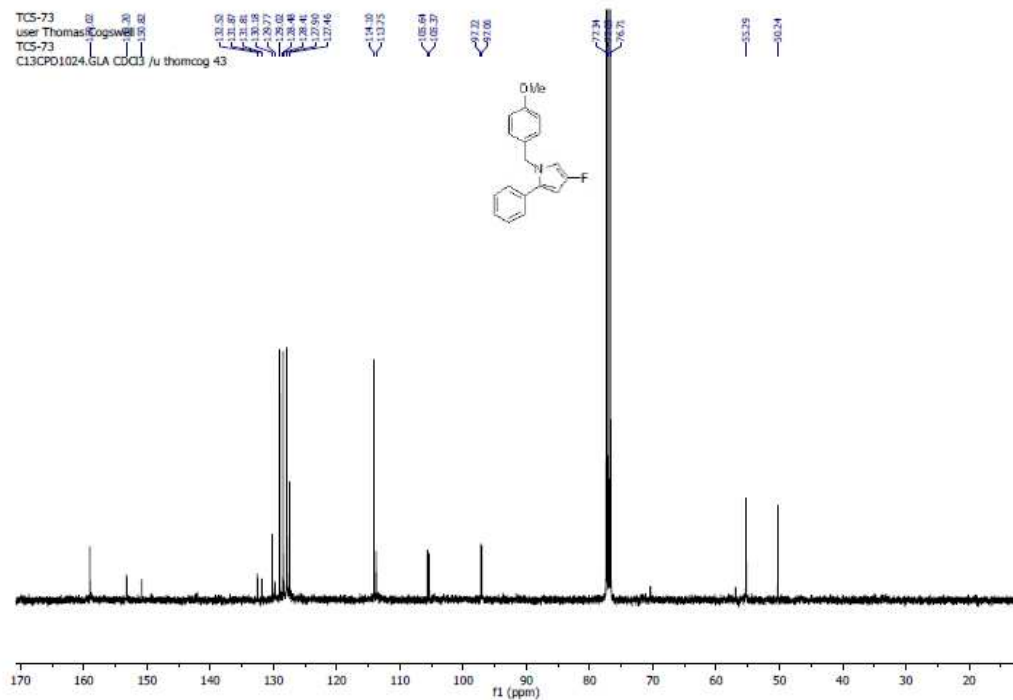
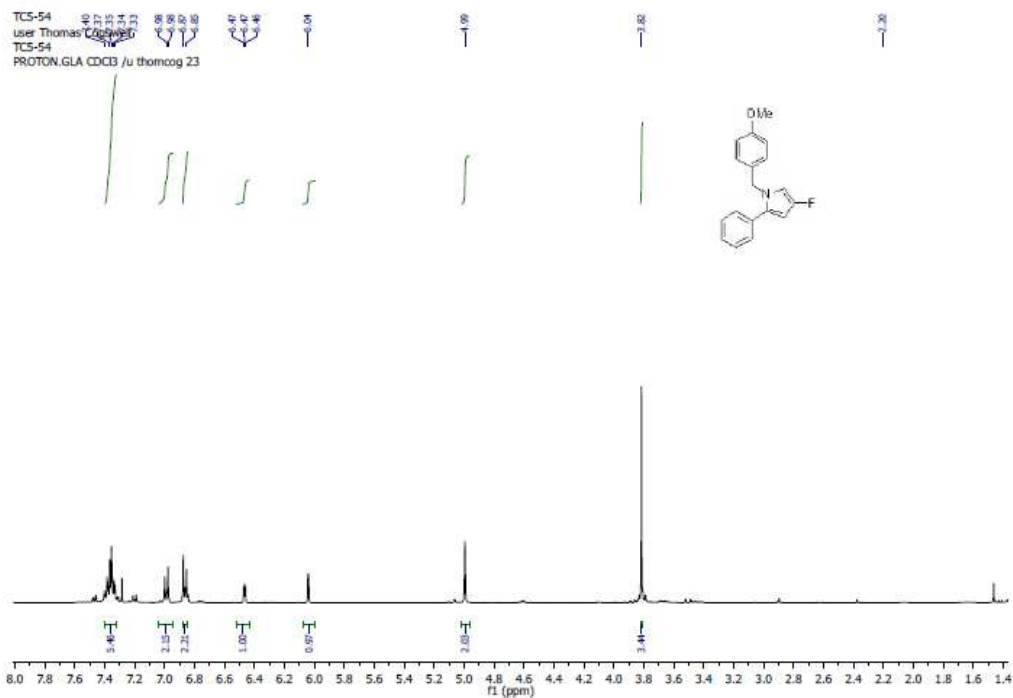
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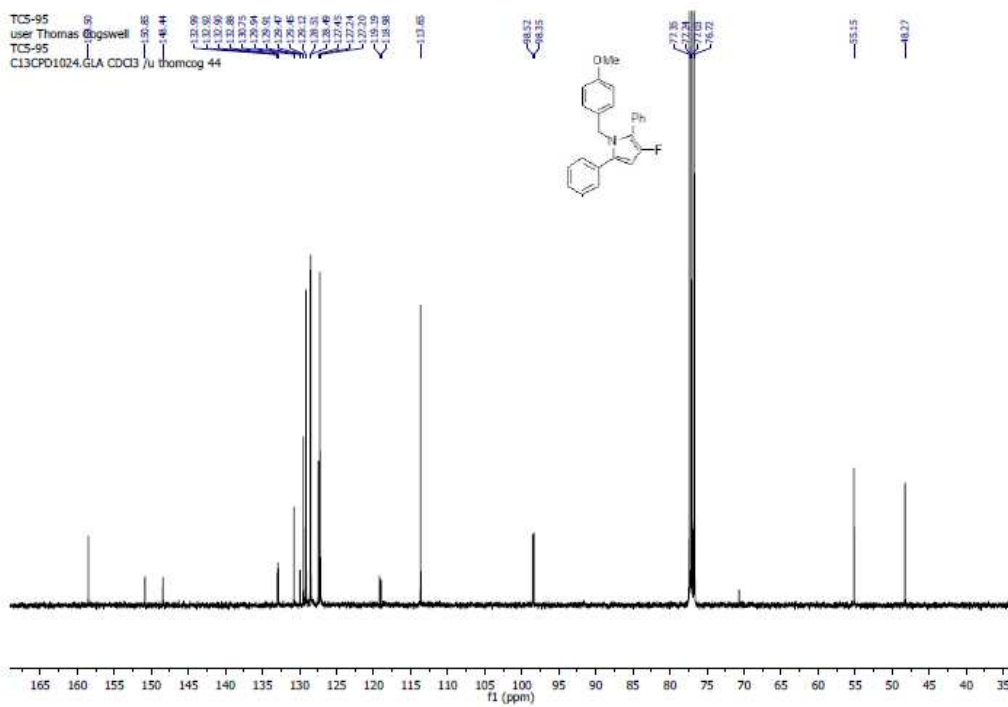
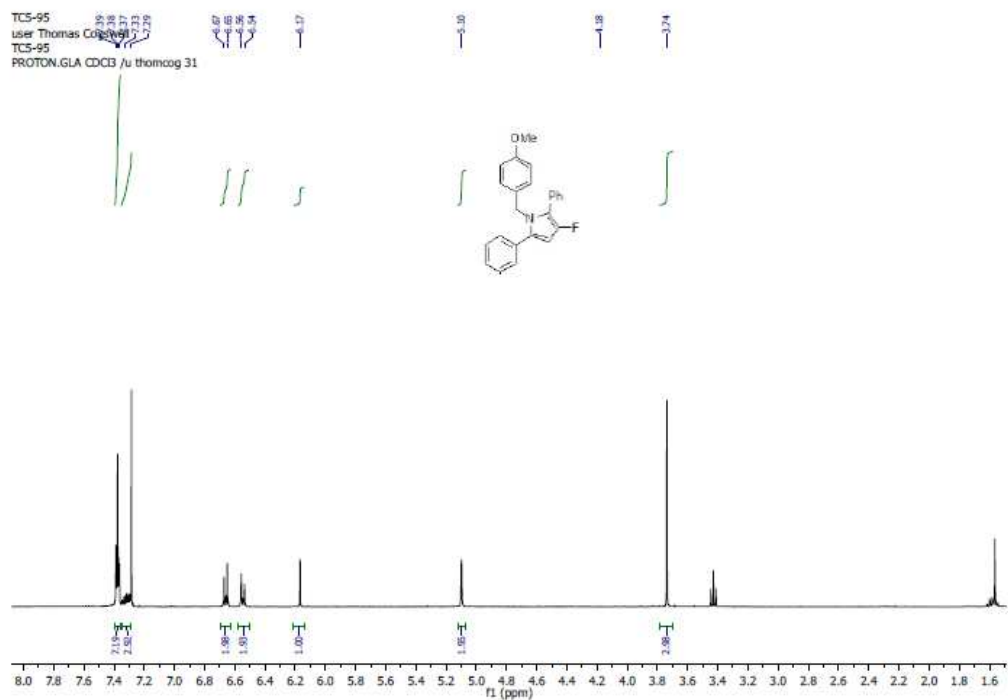
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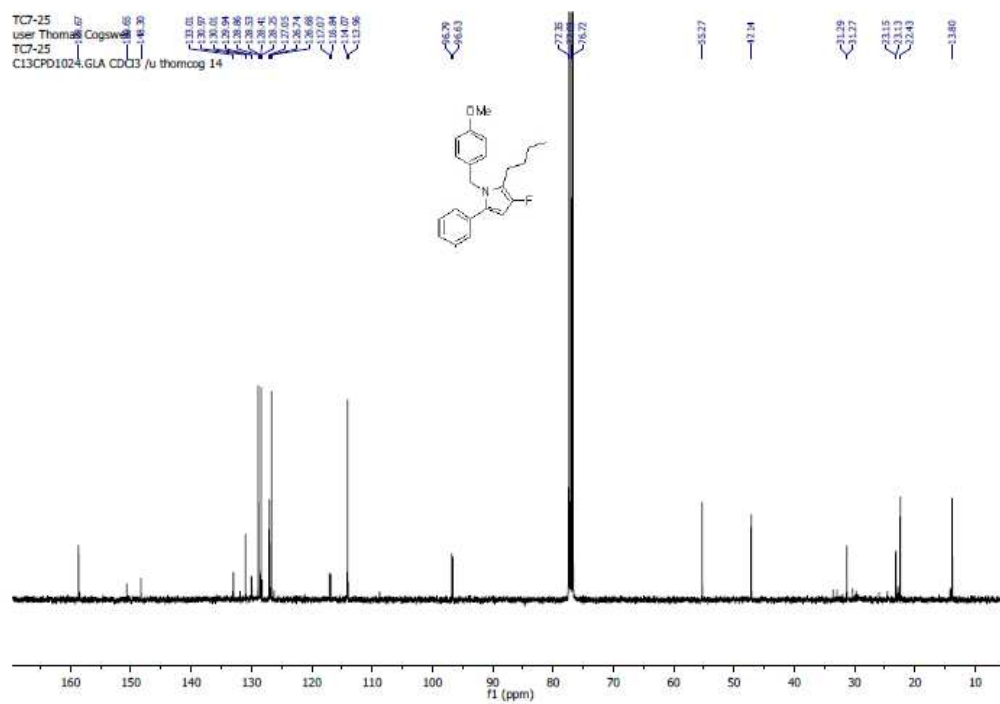
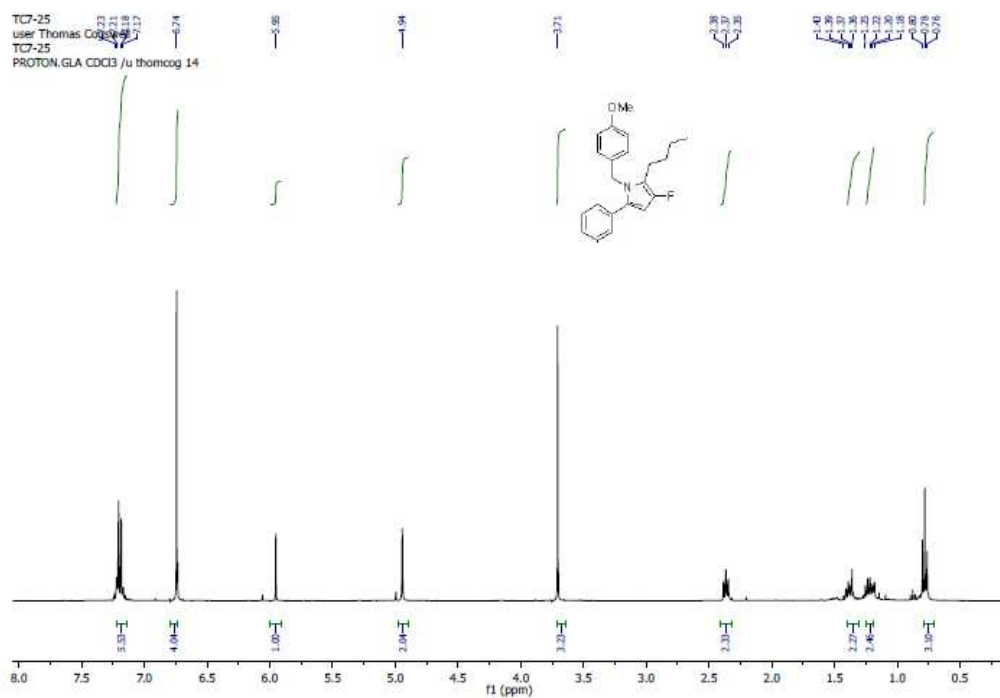
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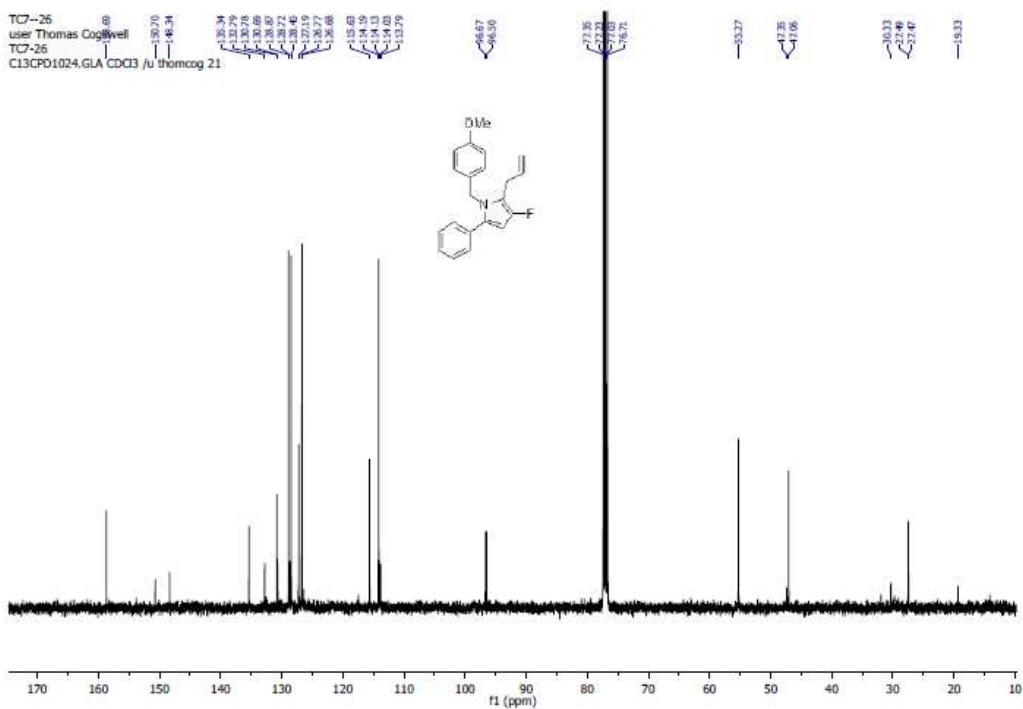
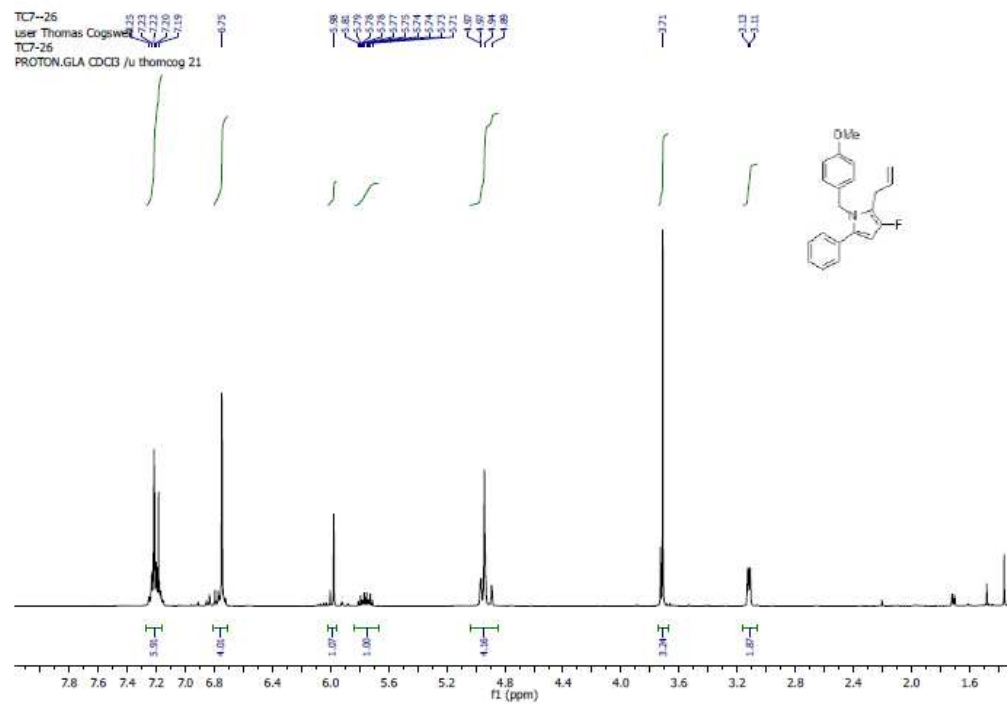
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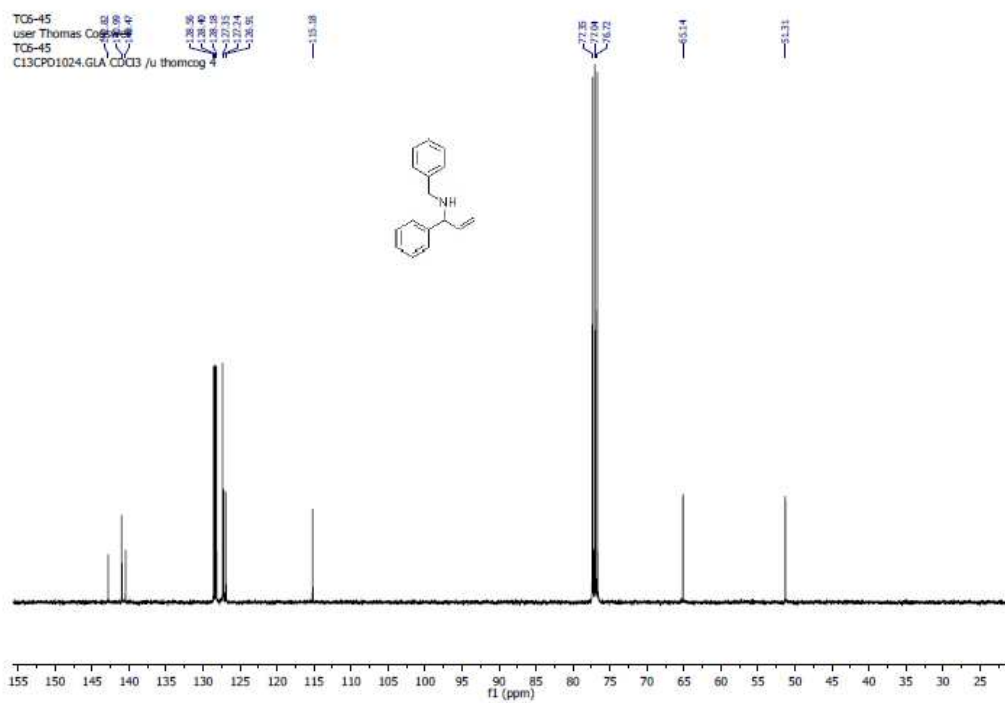
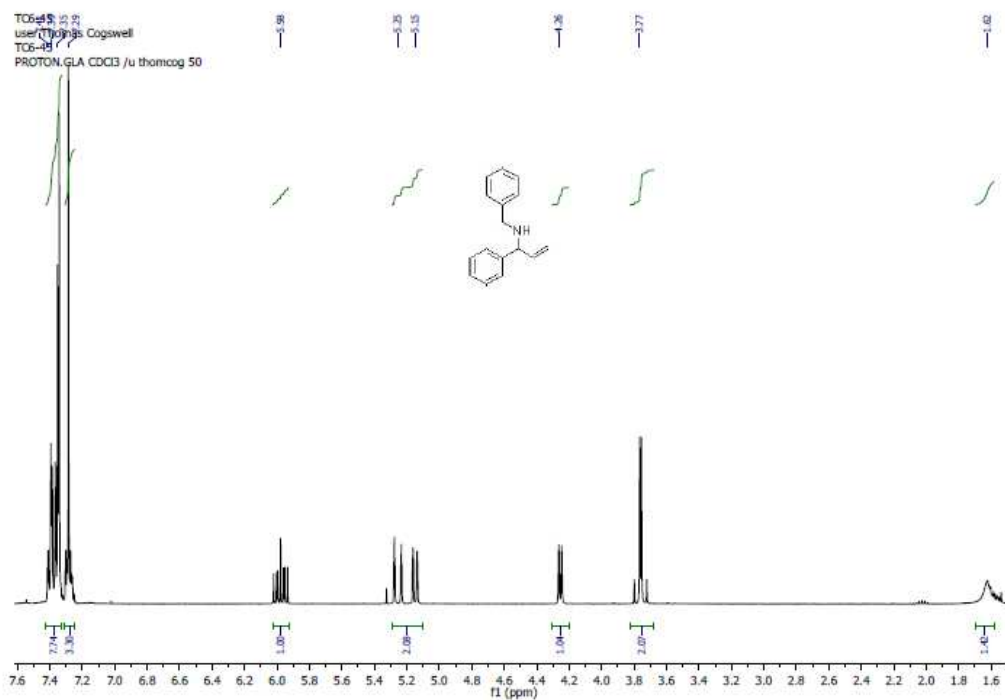
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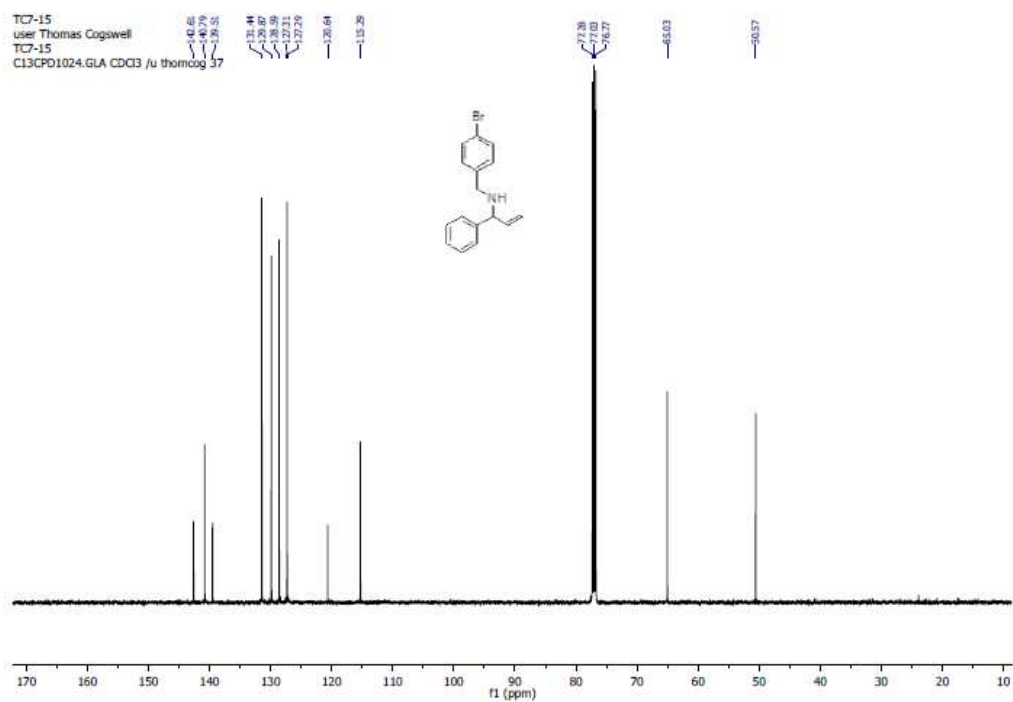
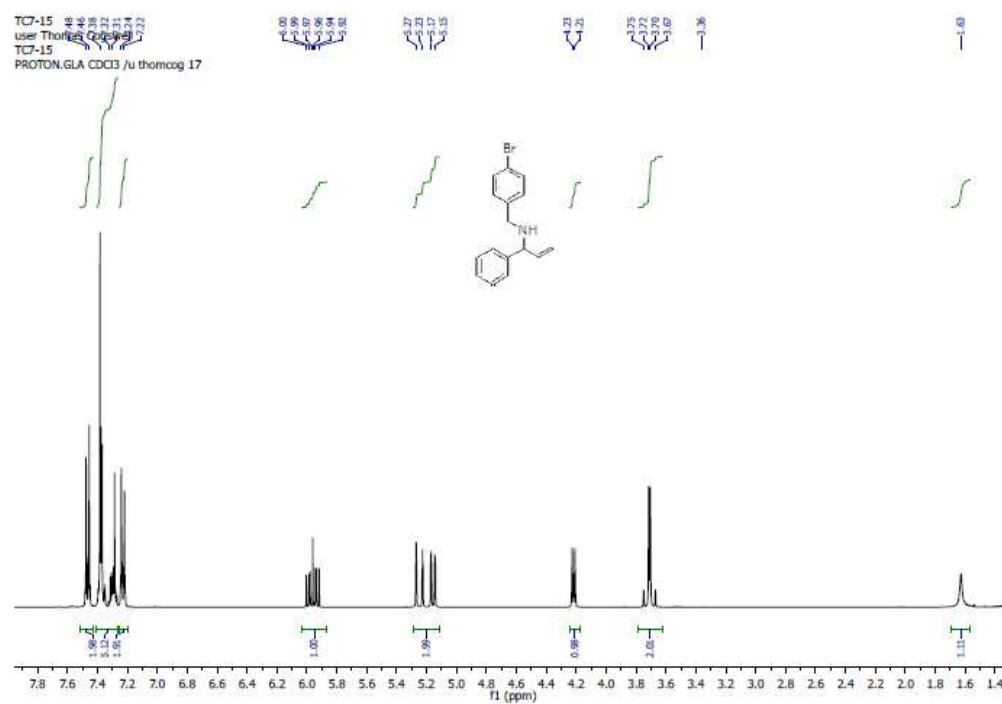
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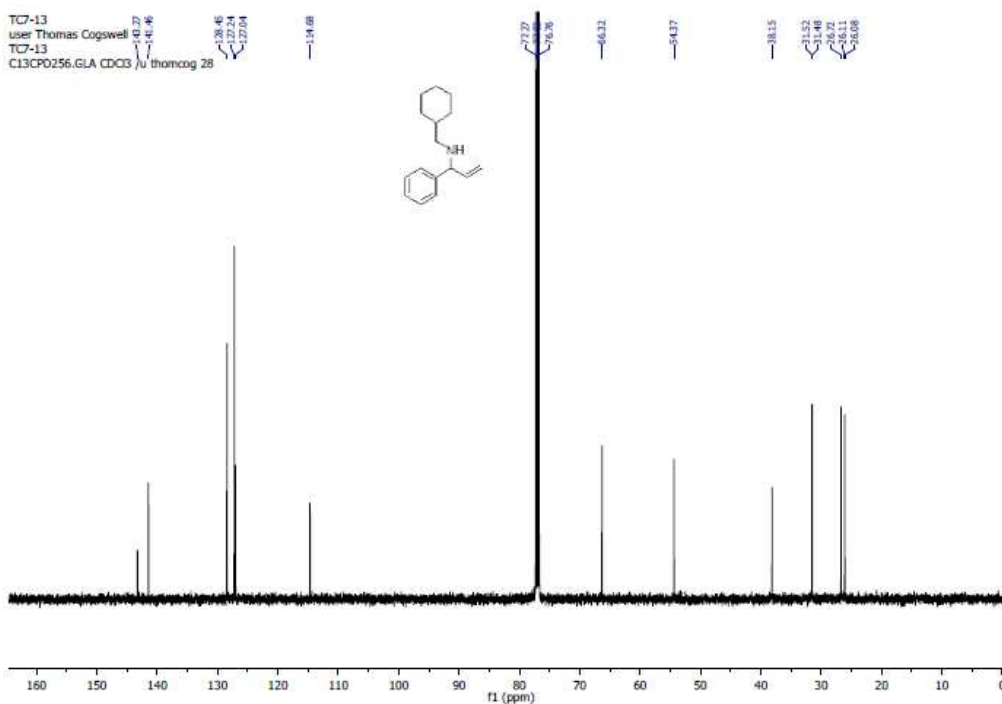
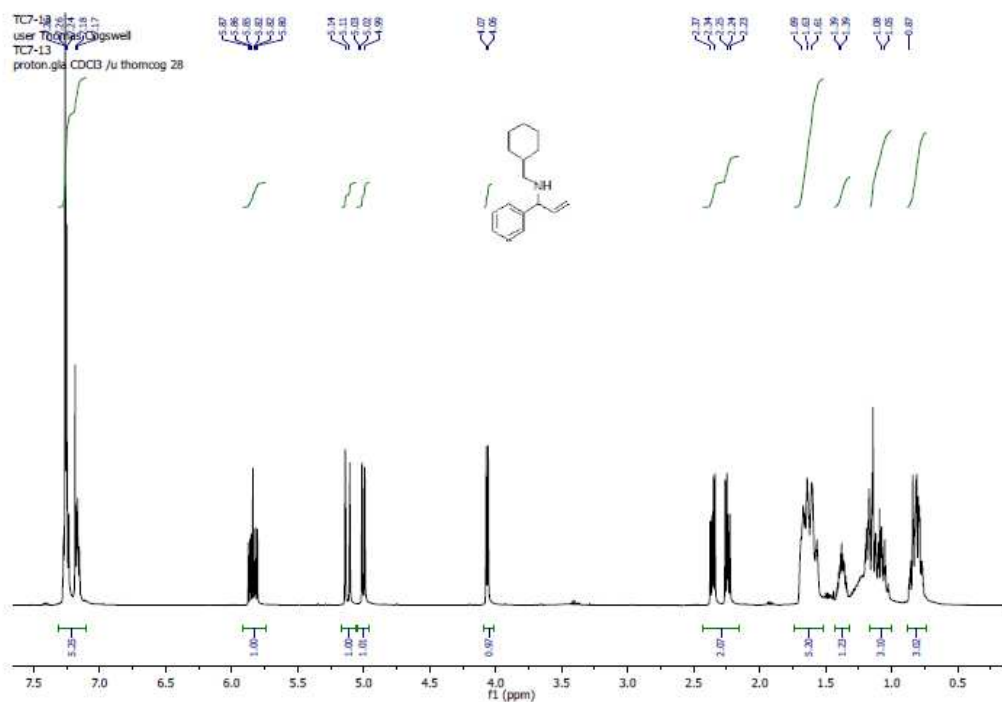
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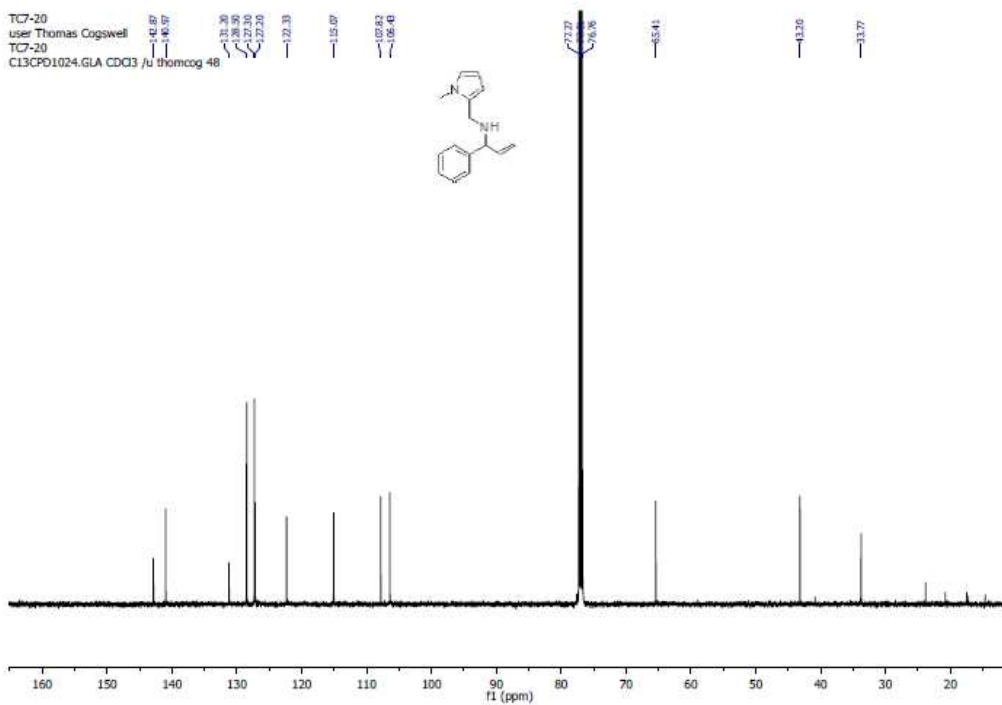
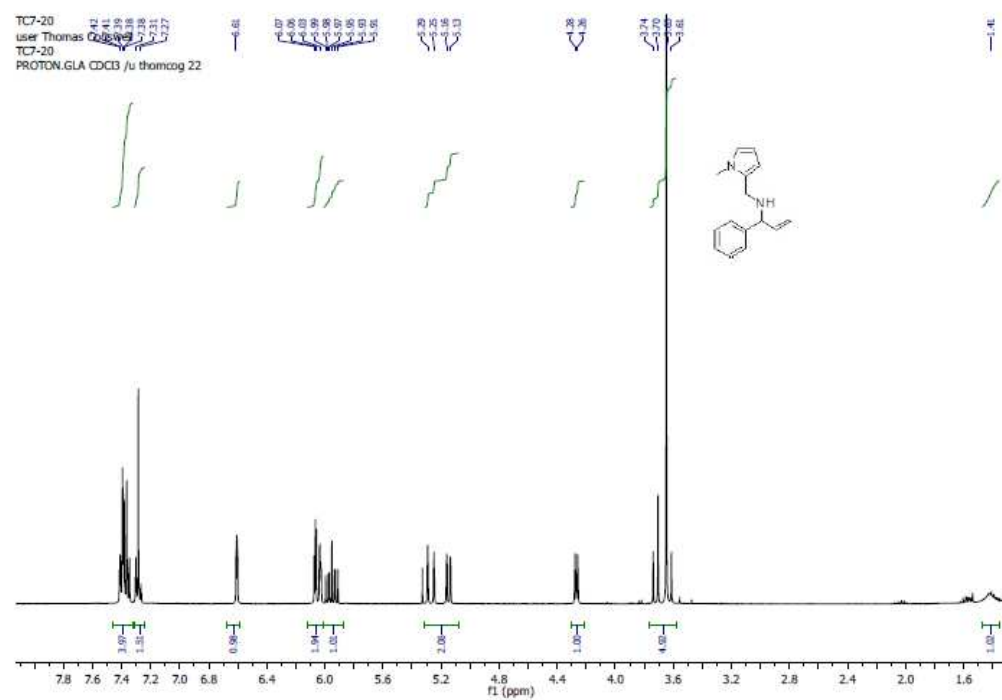
N-(4'-Bromophenylmethyl)-1-phenyl-2-propenylamine, 14b.



N-(Cyclohexylmethyl)-1-phenyl-2-propenylamine, 14c.

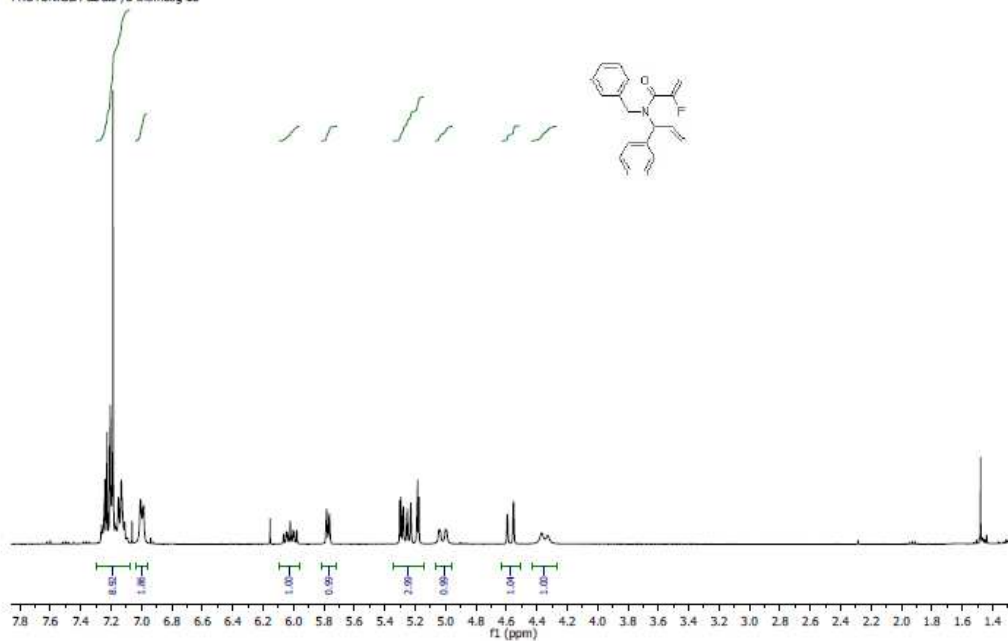


***N*-[(1'-Methyl-1*H*-pyrrol-2'-yl)methyl]-1-phenyl-2-propenylamine, 14d.**

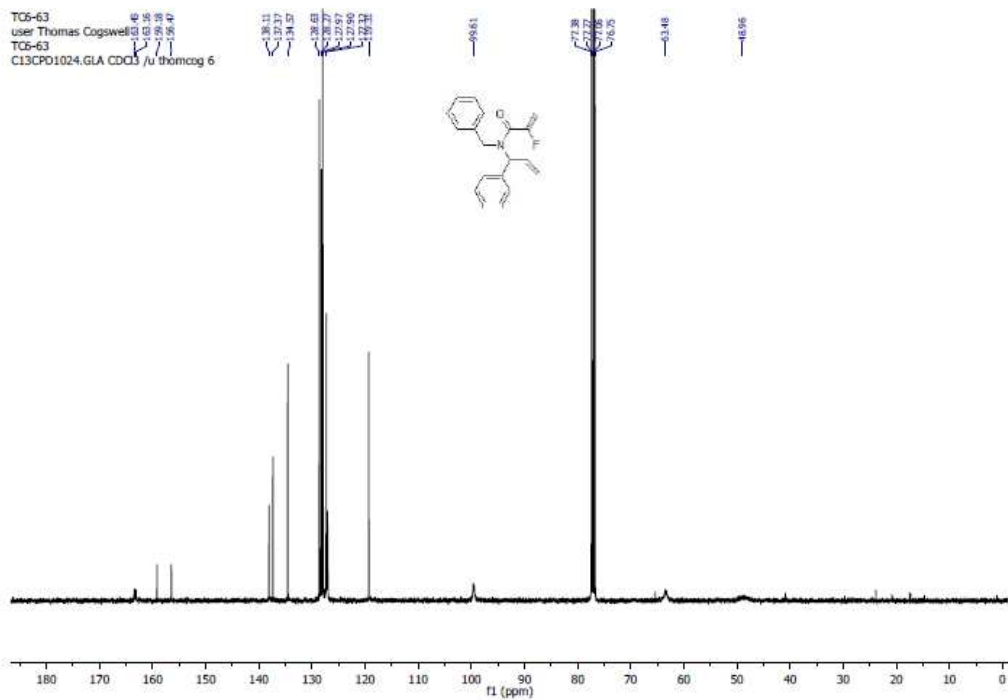


***N*-Benzyl-2-fluoro-*N*-(1'-phenylprop-2'-en-1'-yl)-prop-2-enamide, 15a.**

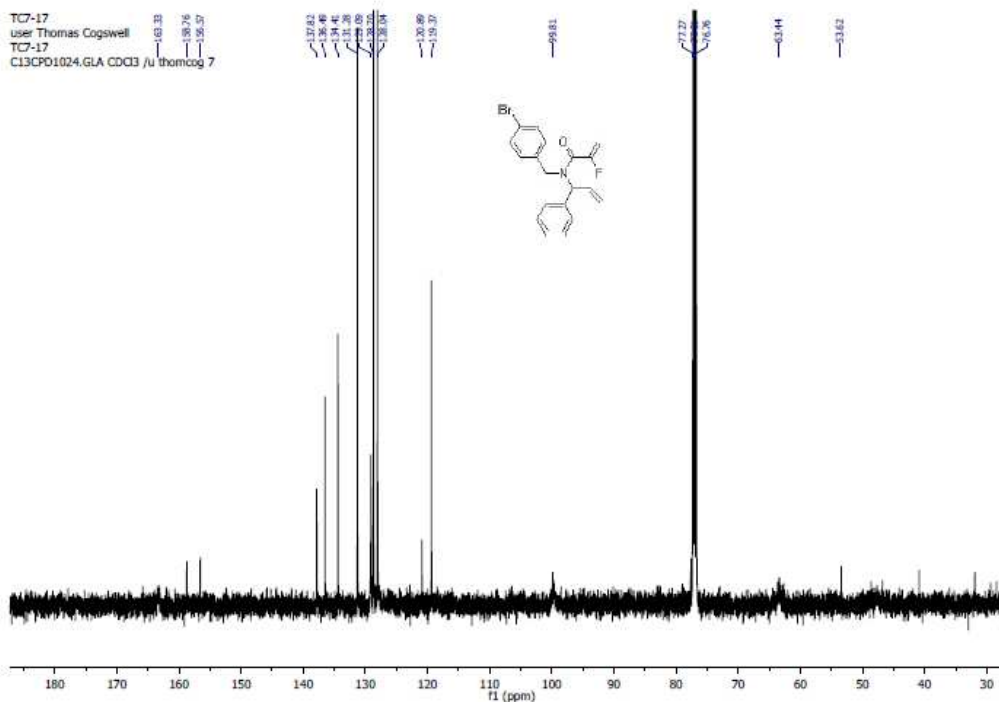
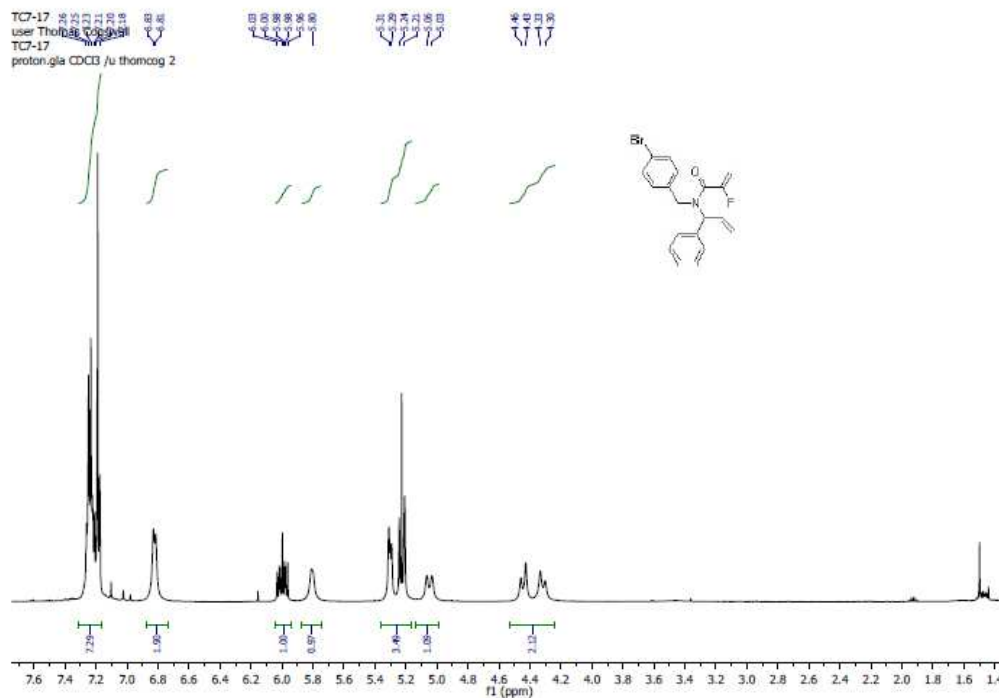
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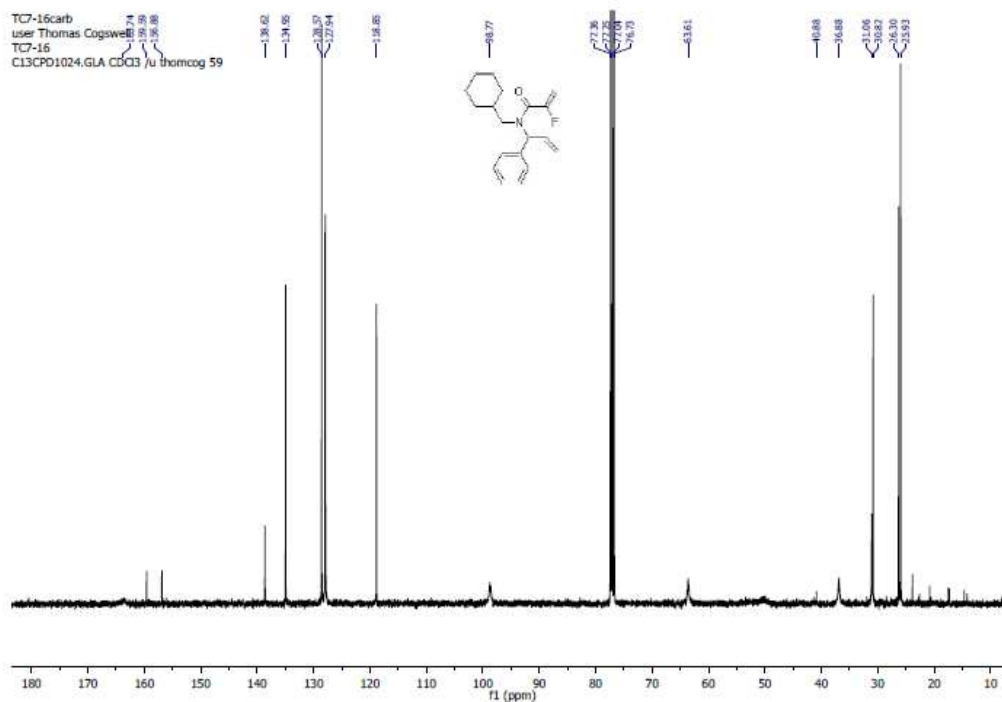
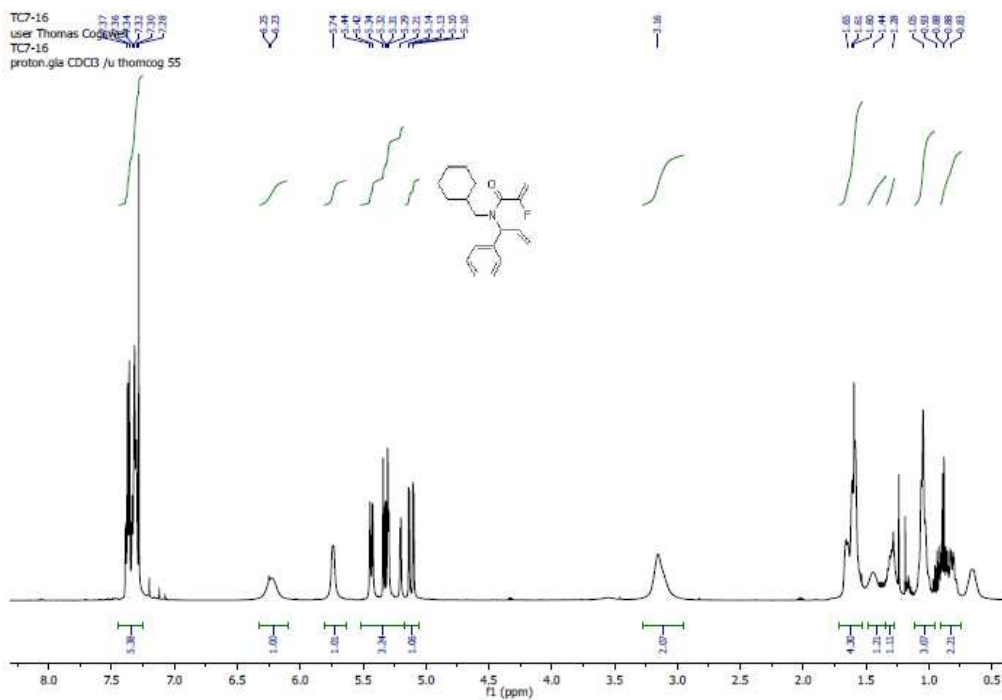
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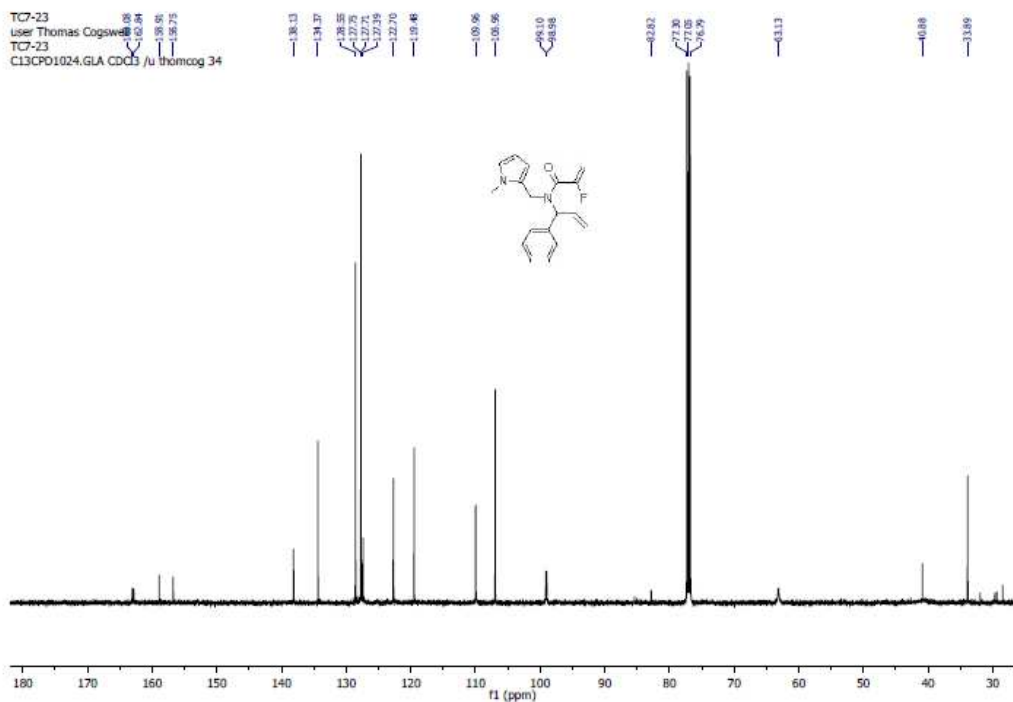
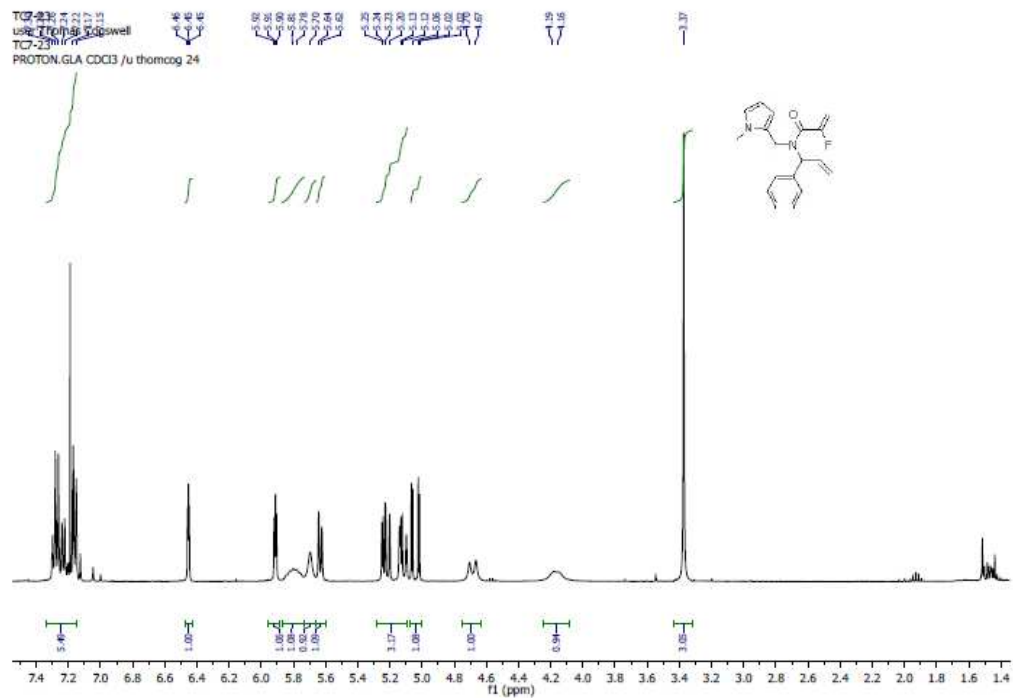
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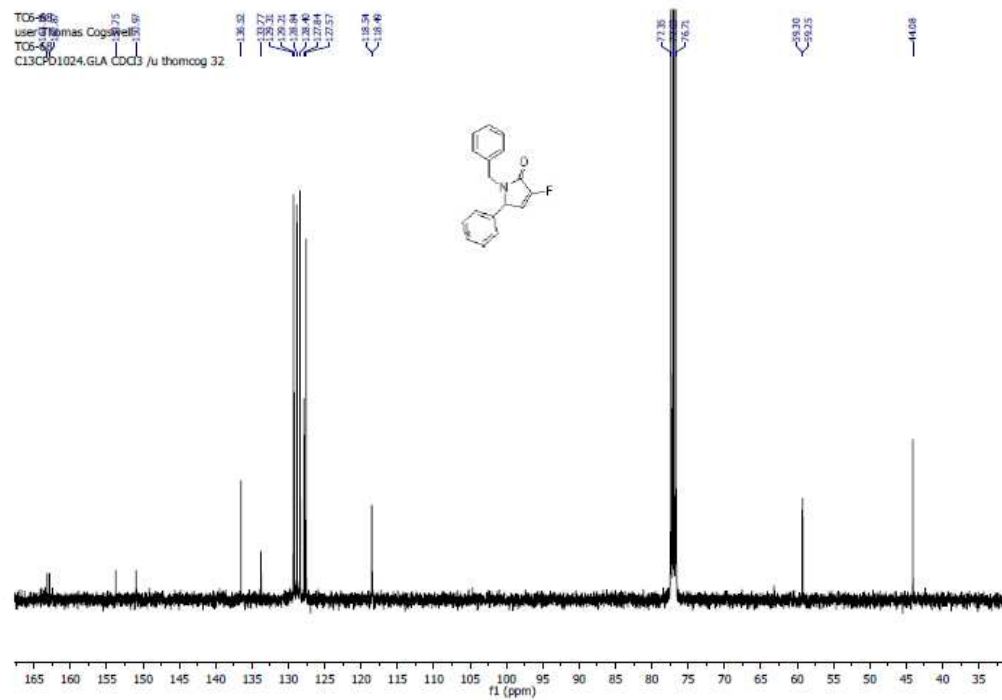
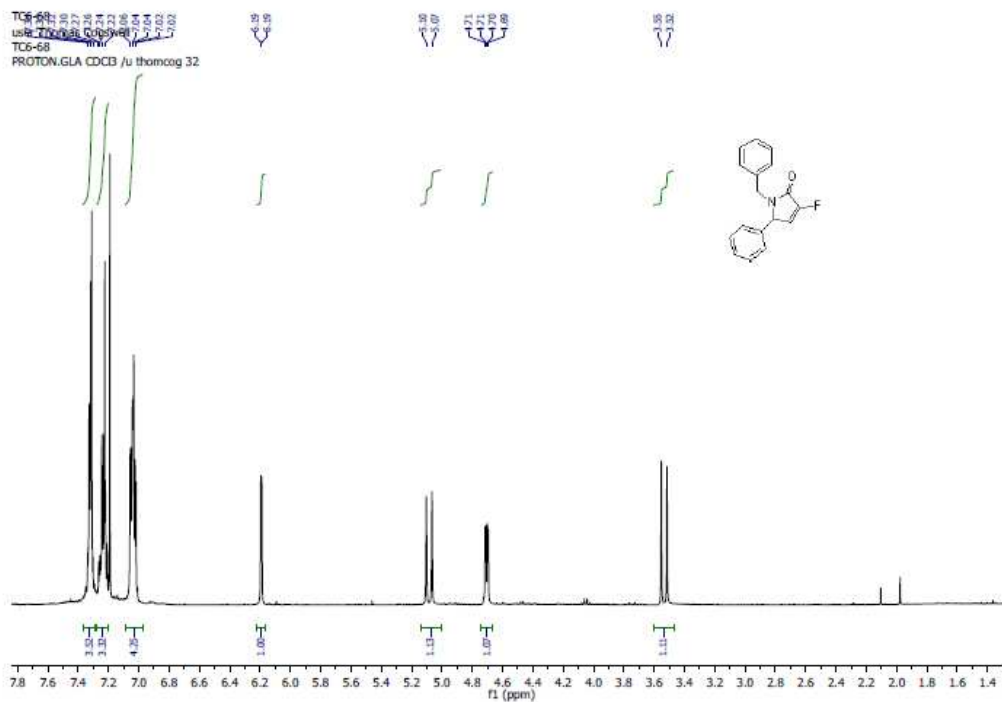
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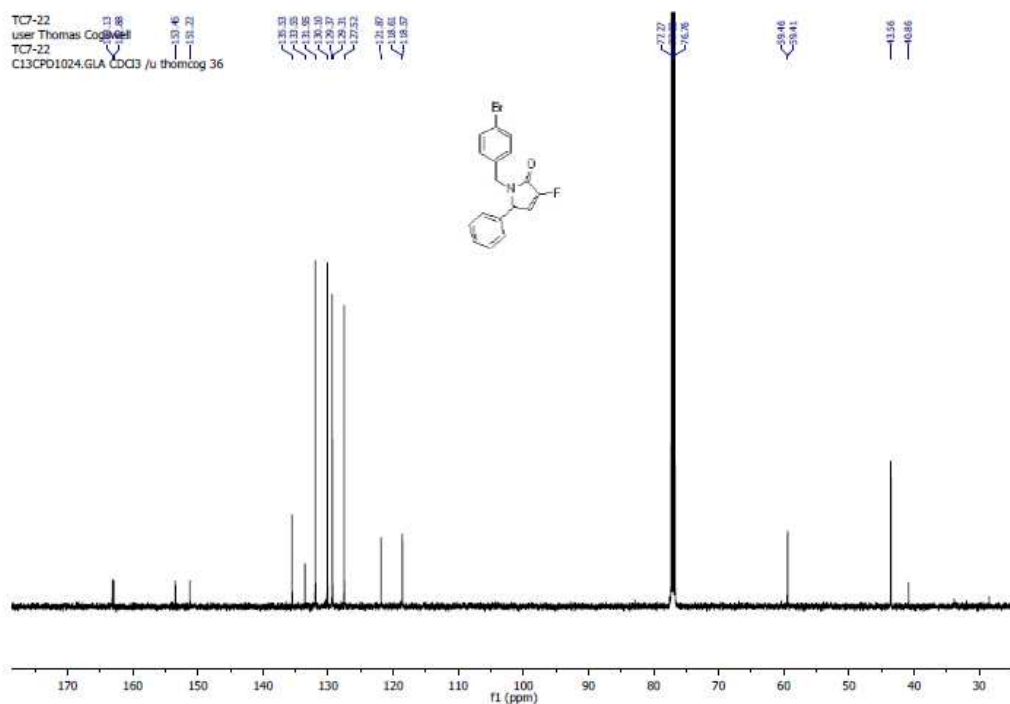
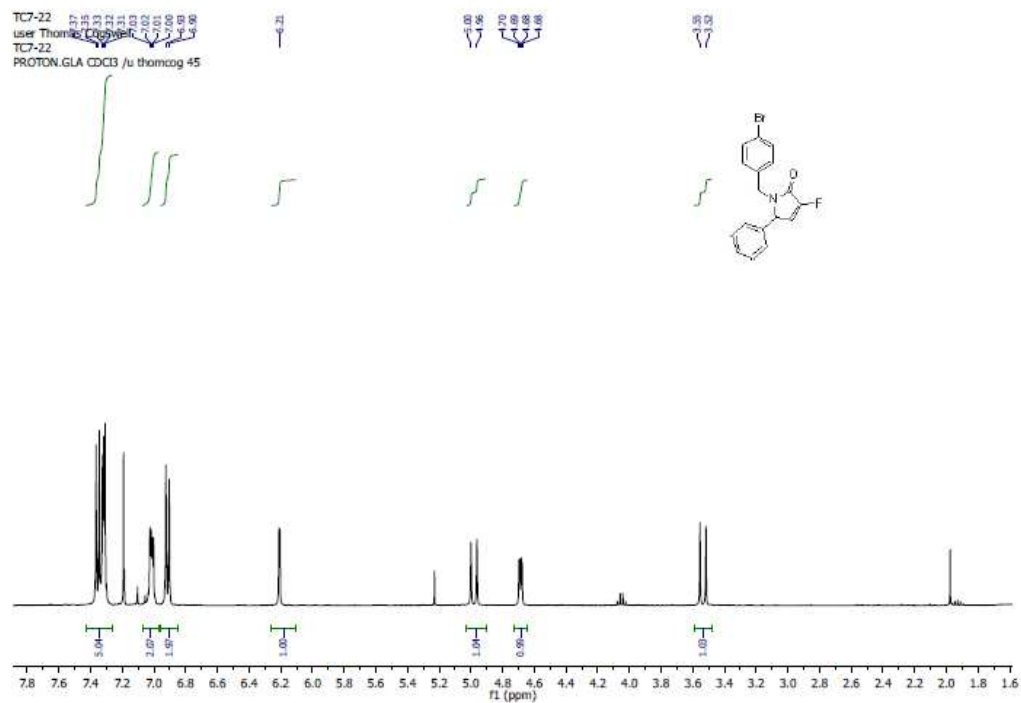
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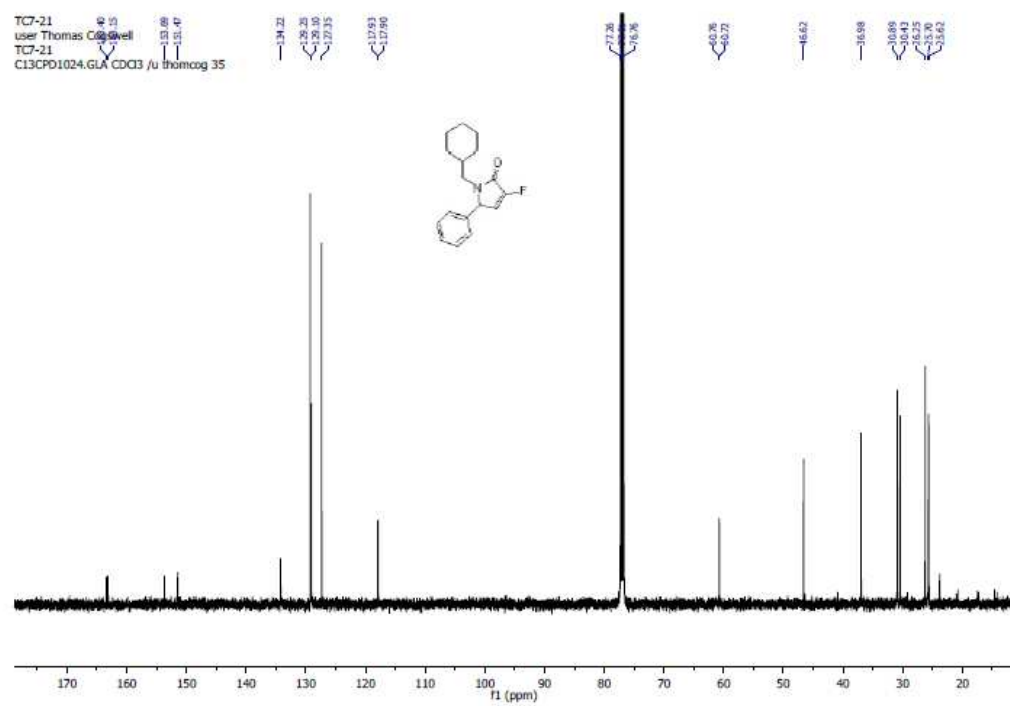
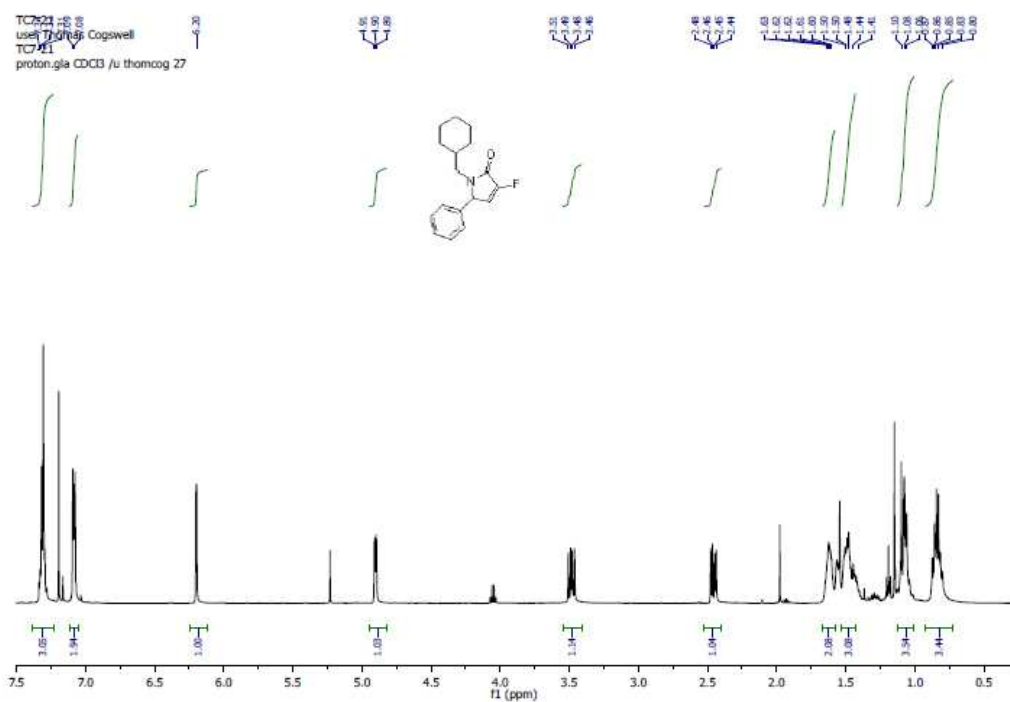
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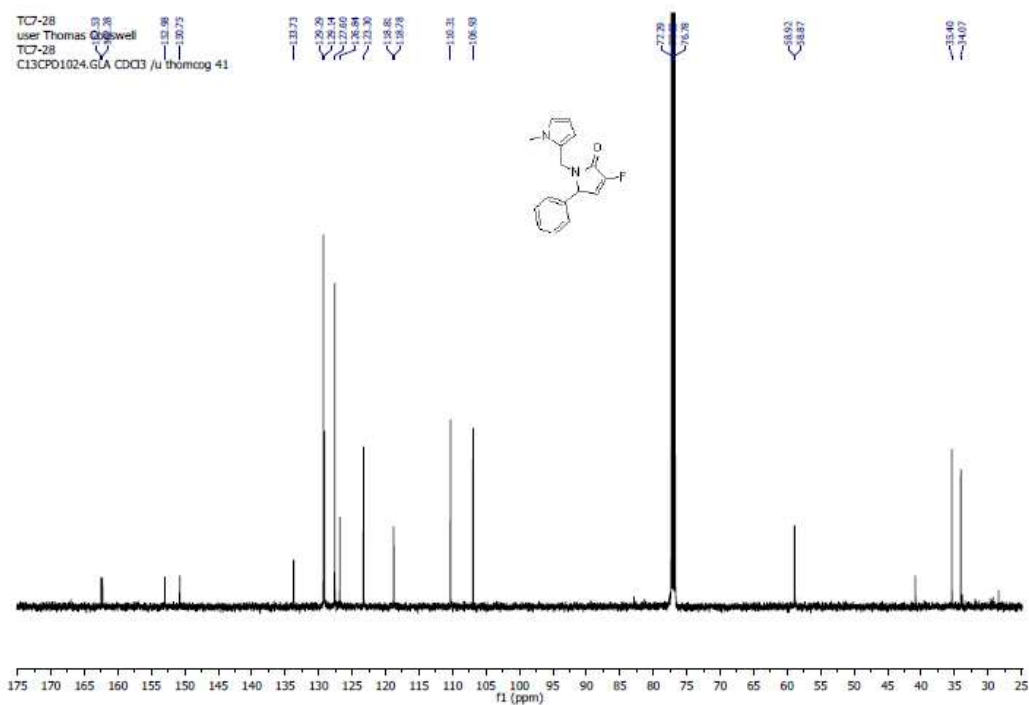
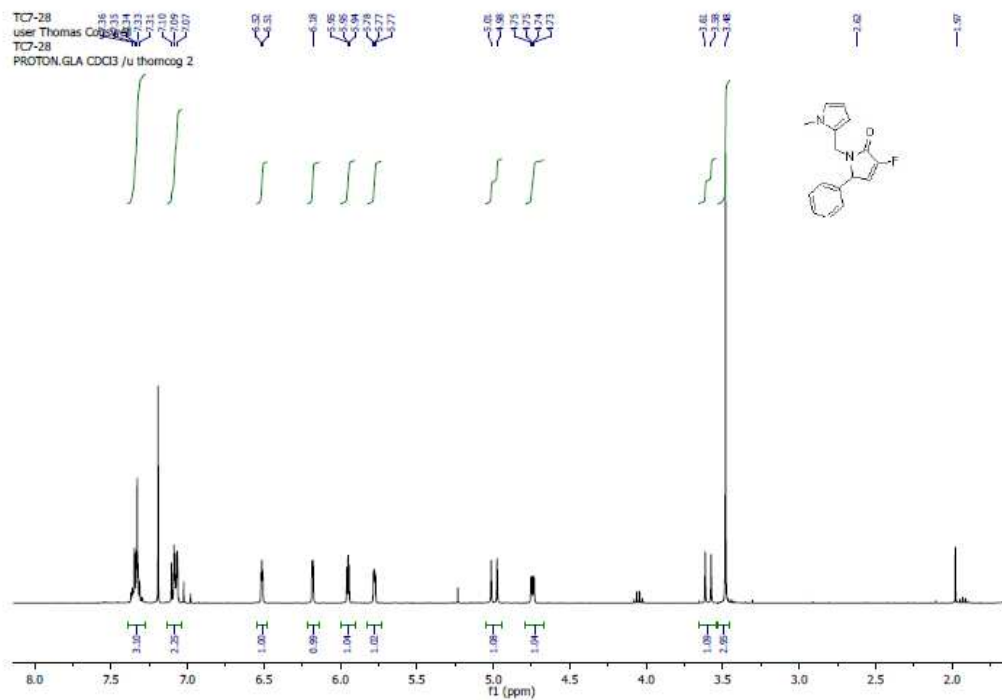
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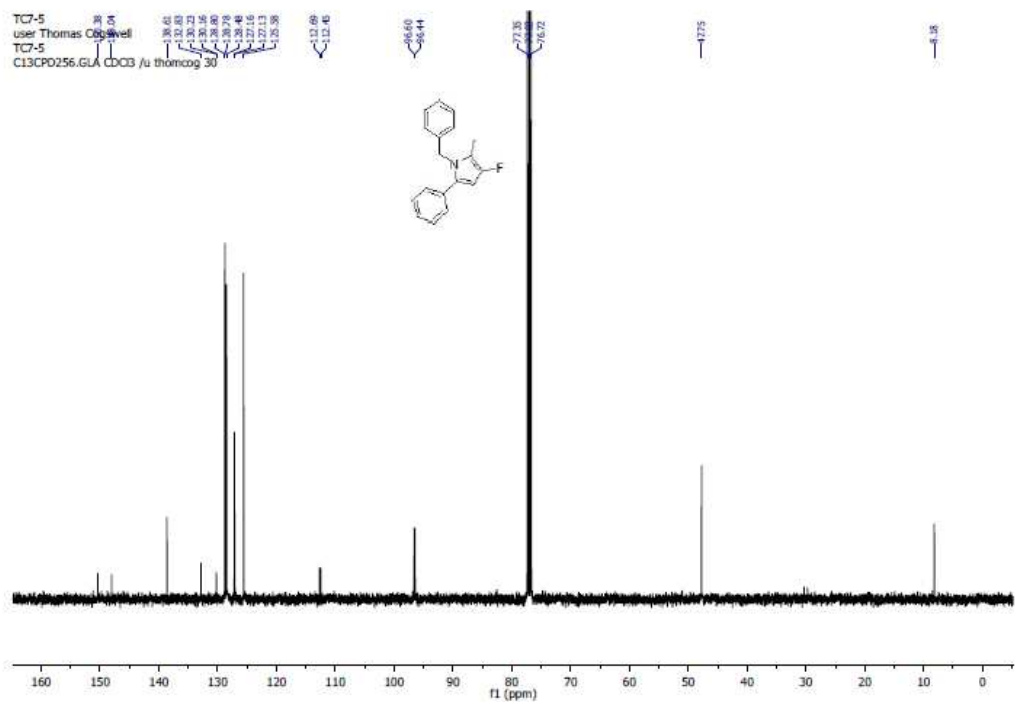
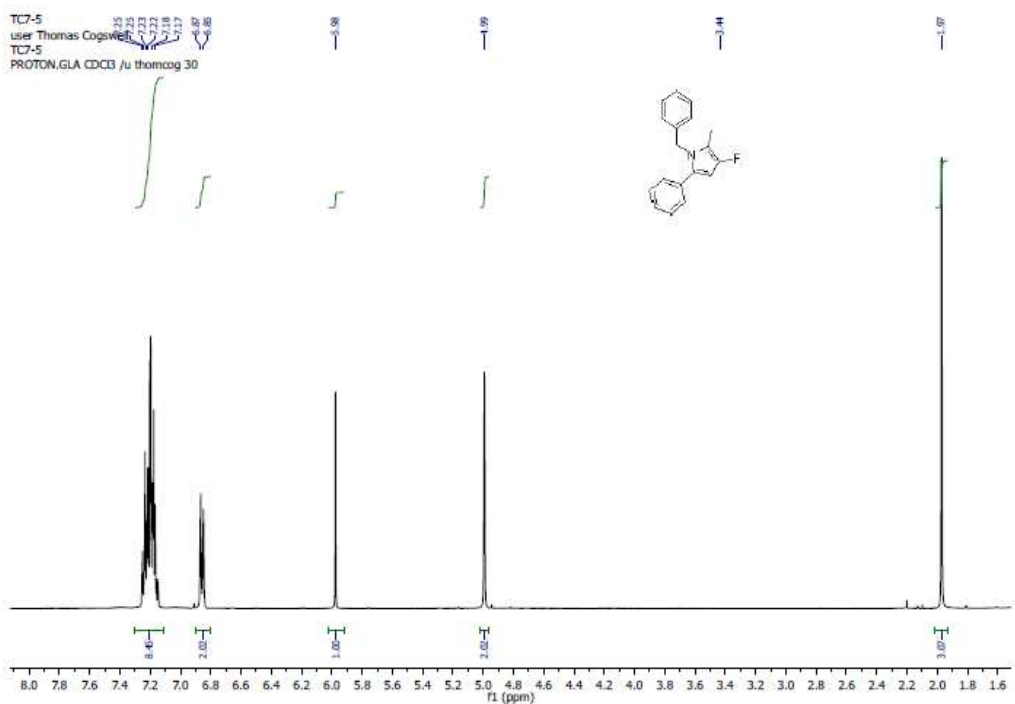
3-Fluoro-1-(cyclohexylmethyl)-5-phenyl-2,5-dihydro-1H-pyrrol-2-one, 16c.



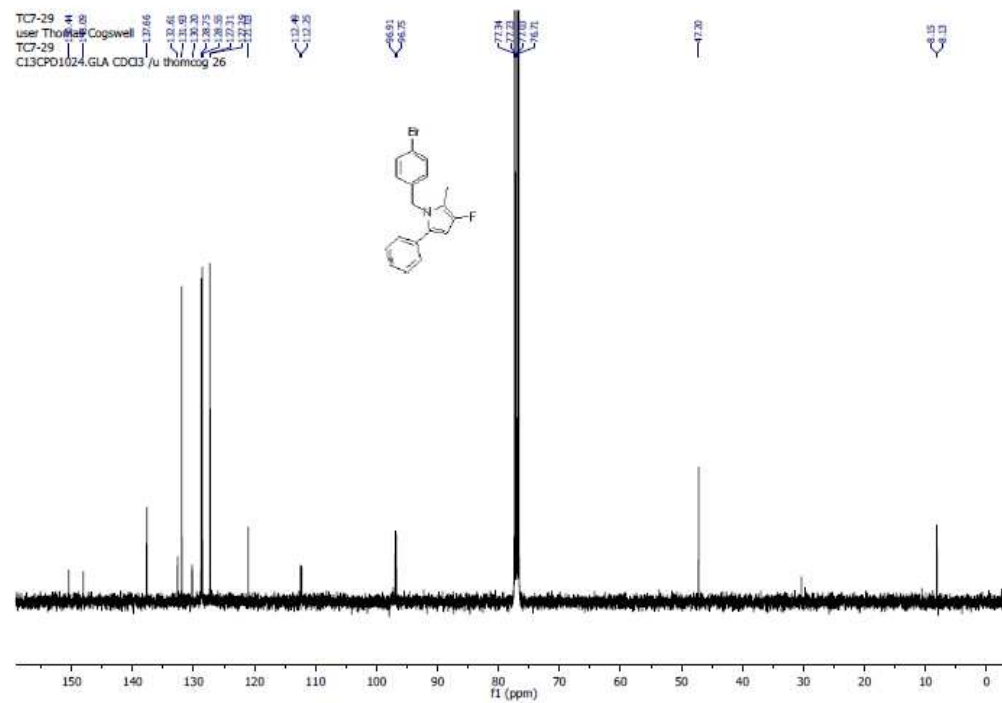
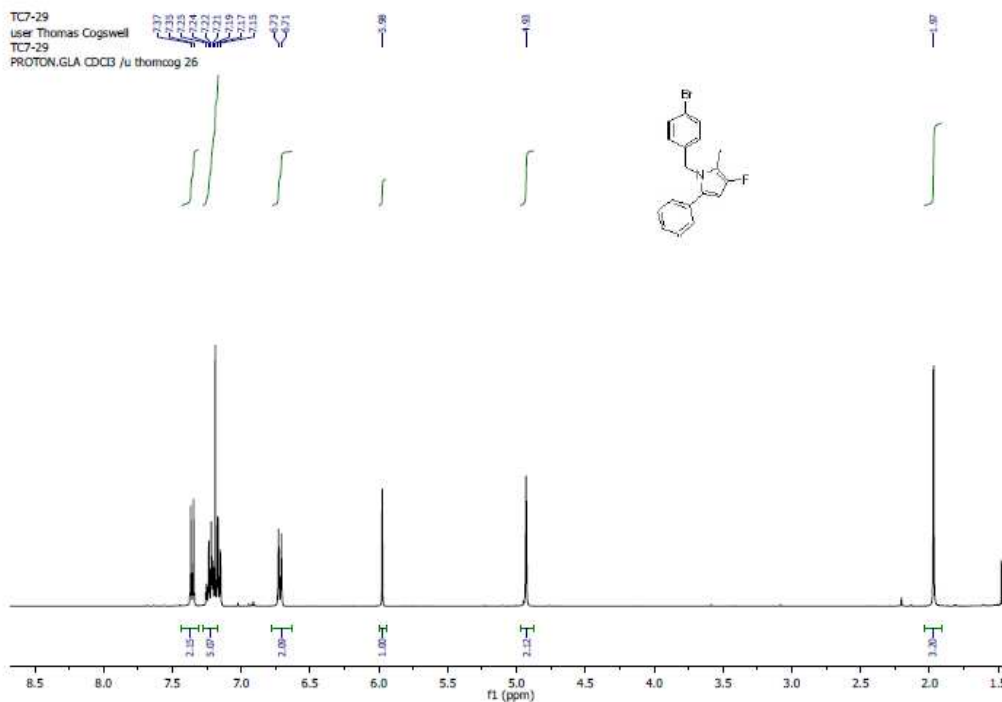
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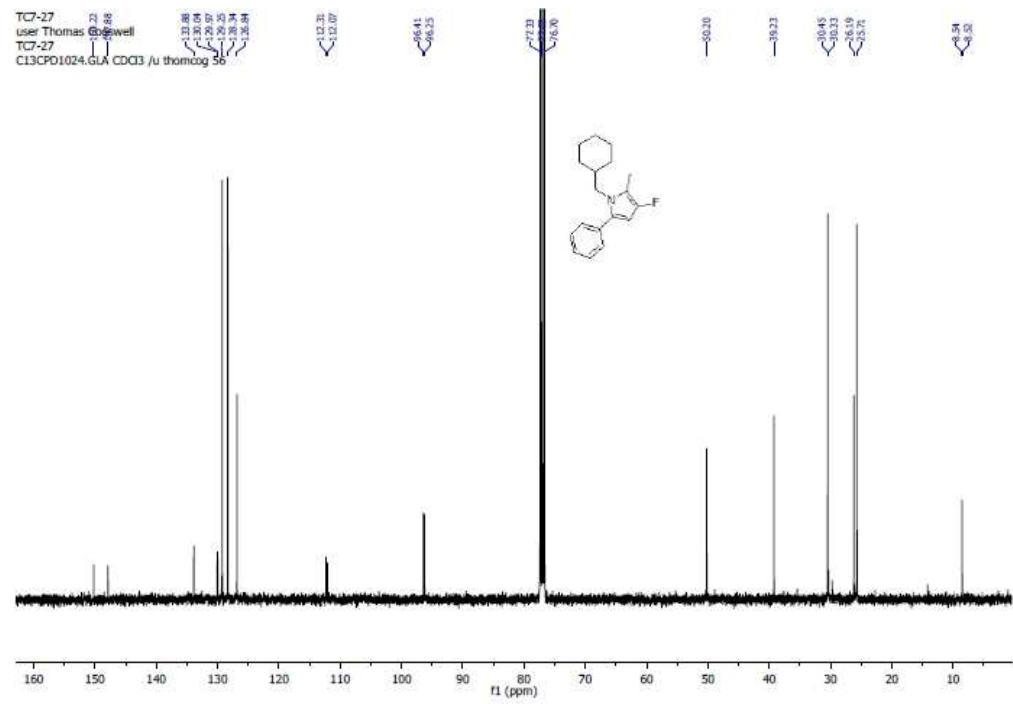
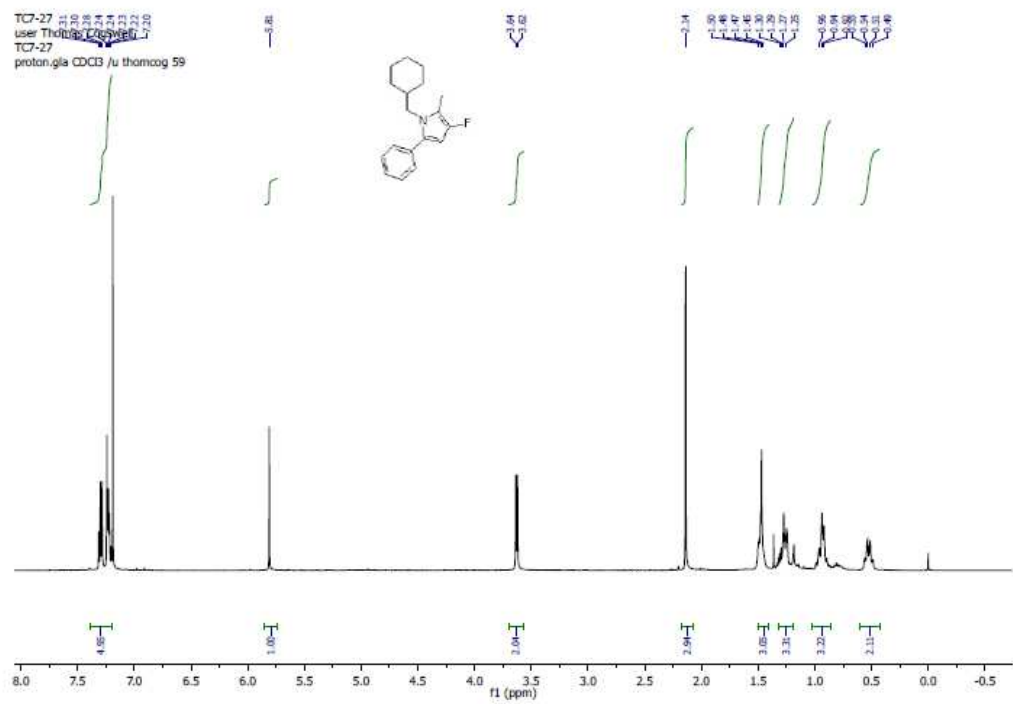
1-Benzyl-3-fluoro-2-methyl-5-phenyl-1H-pyrrole, 17a.



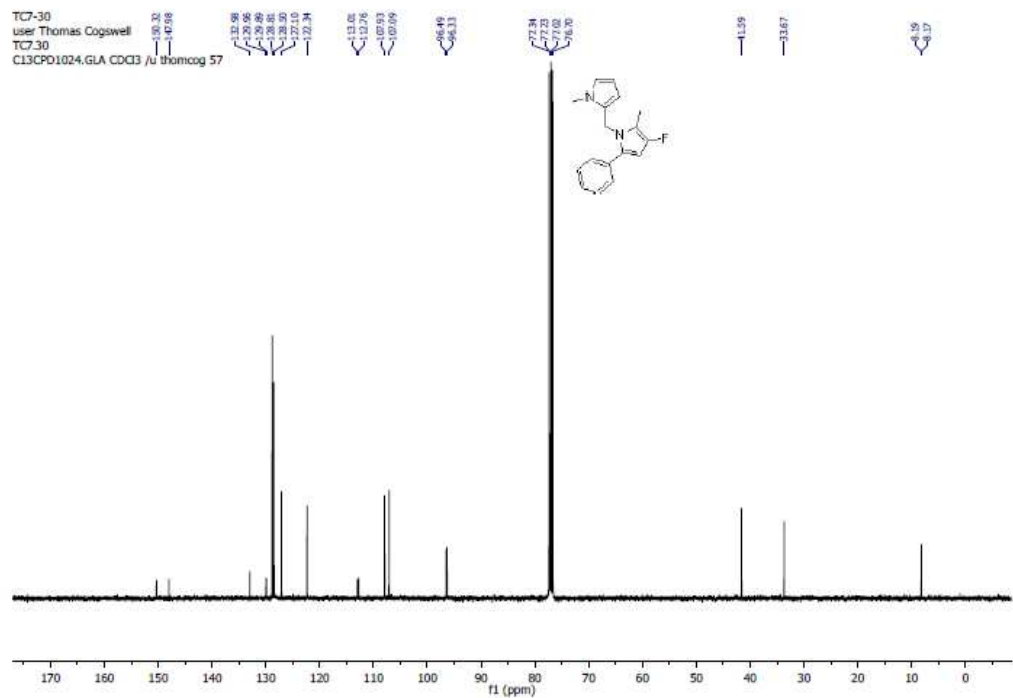
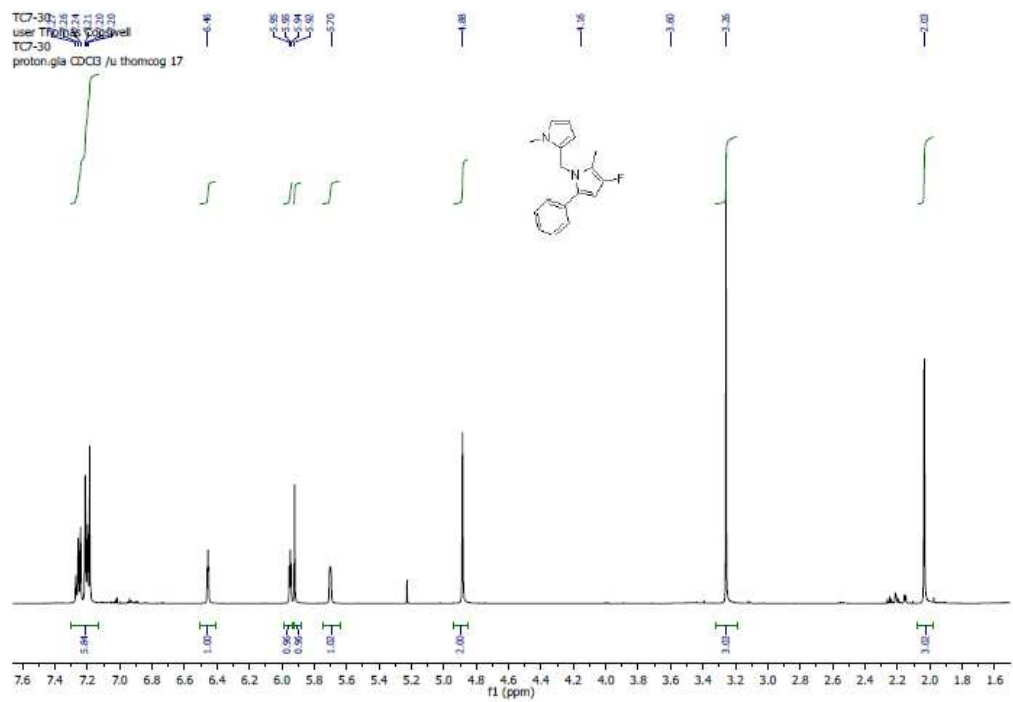
1-[(4'-Bromophenyl)methyl]-3-fluoro-2-methyl-5-phenyl-1H-pyrrole, 17b.



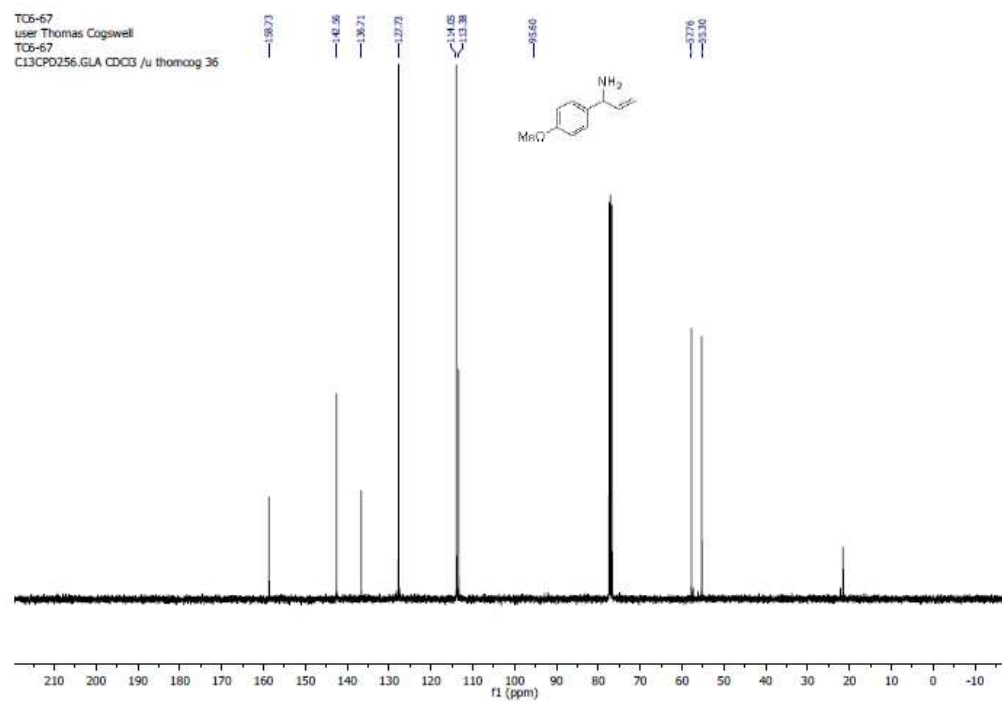
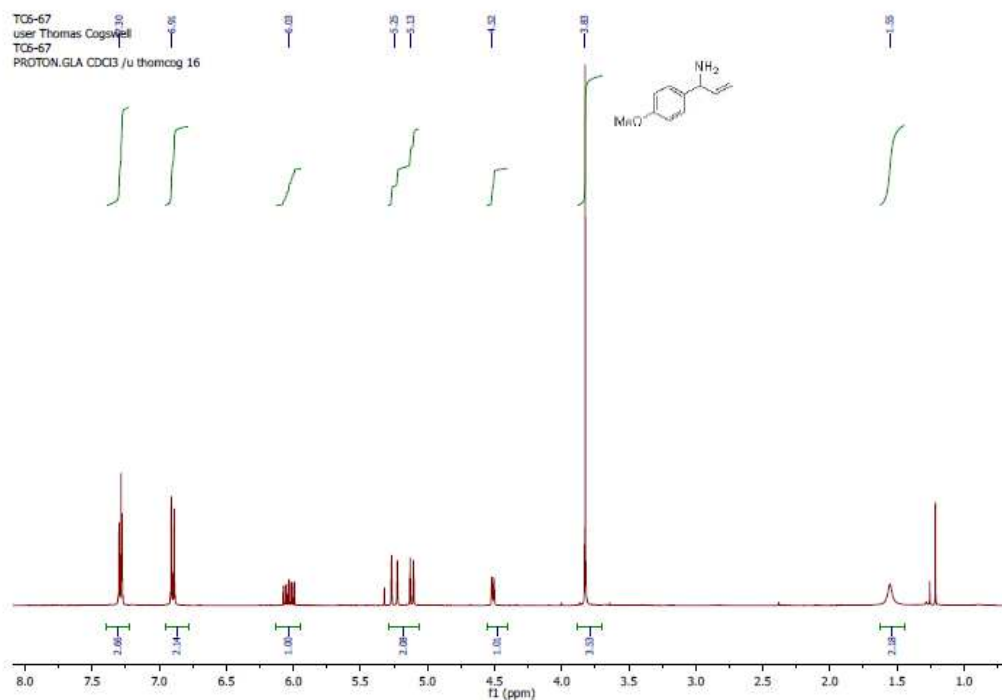
1-(Cyclohexylmethyl)-3-fluoro-2-methyl-5-phenyl-1H-pyrrole, 17c.



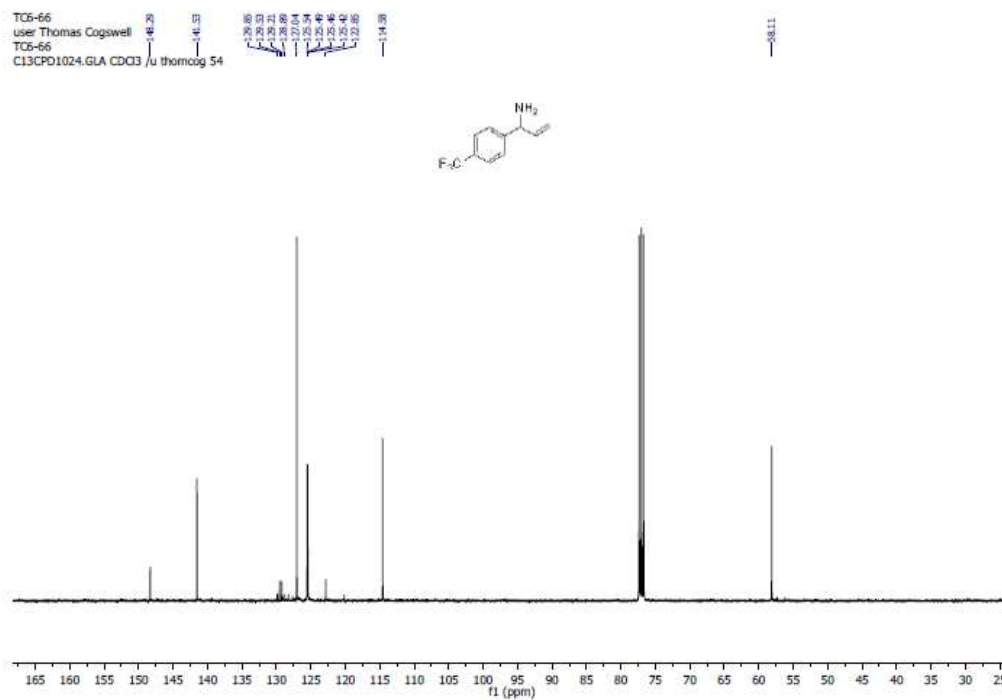
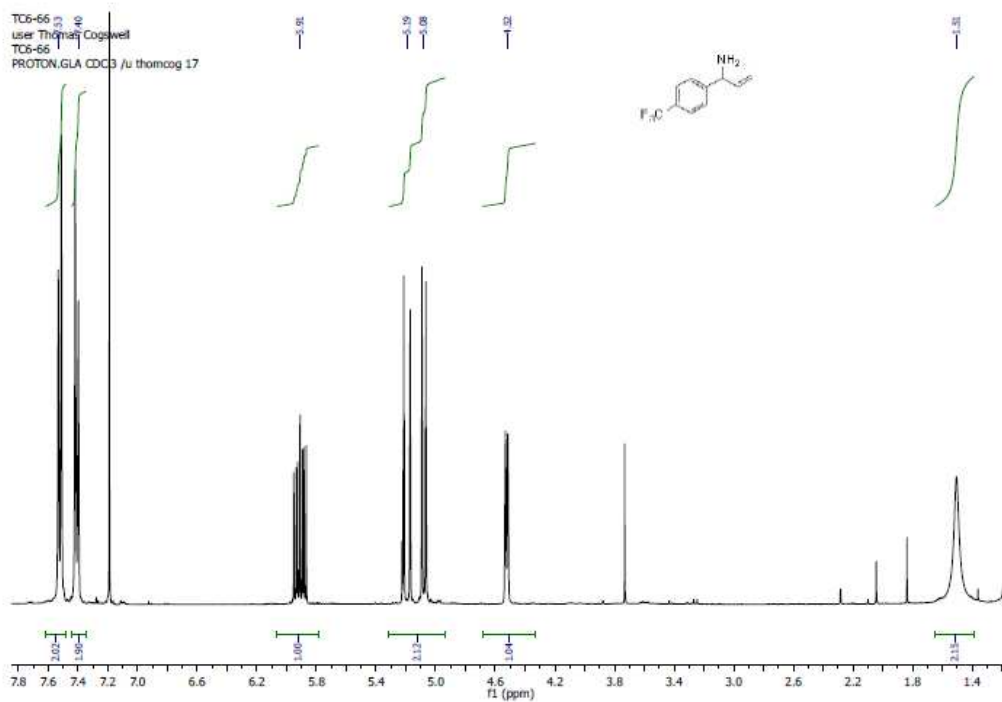
**3-Fluoro-2-methyl-1-[(1'-methyl-1*H*-pyrrole-2'-yl)methyl]-5-phenyl-1*H*-pyrrole,
17d.**



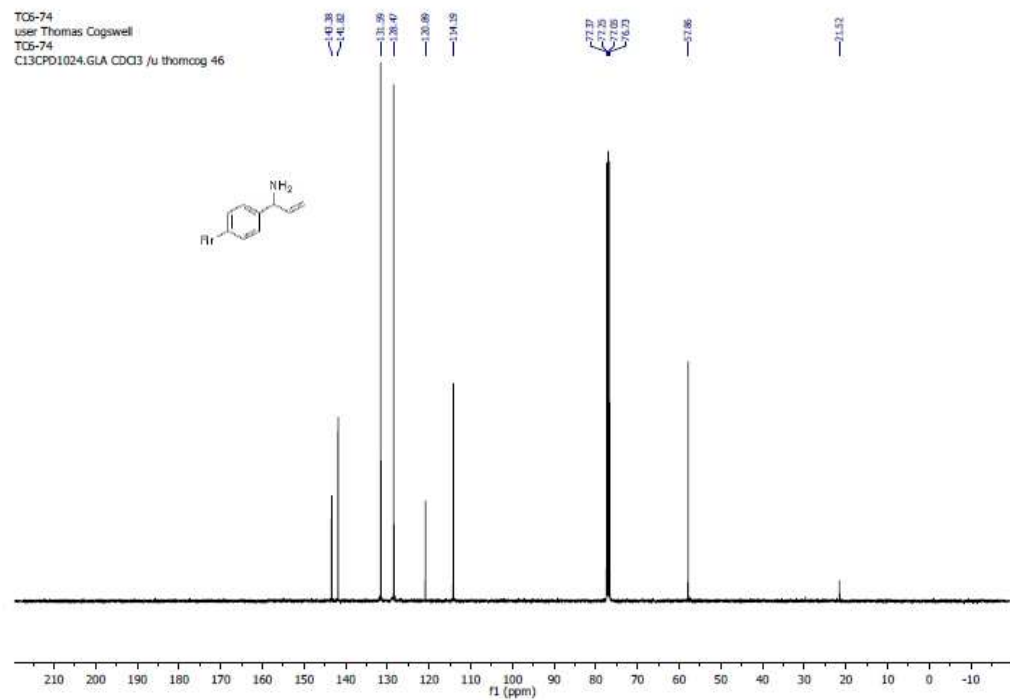
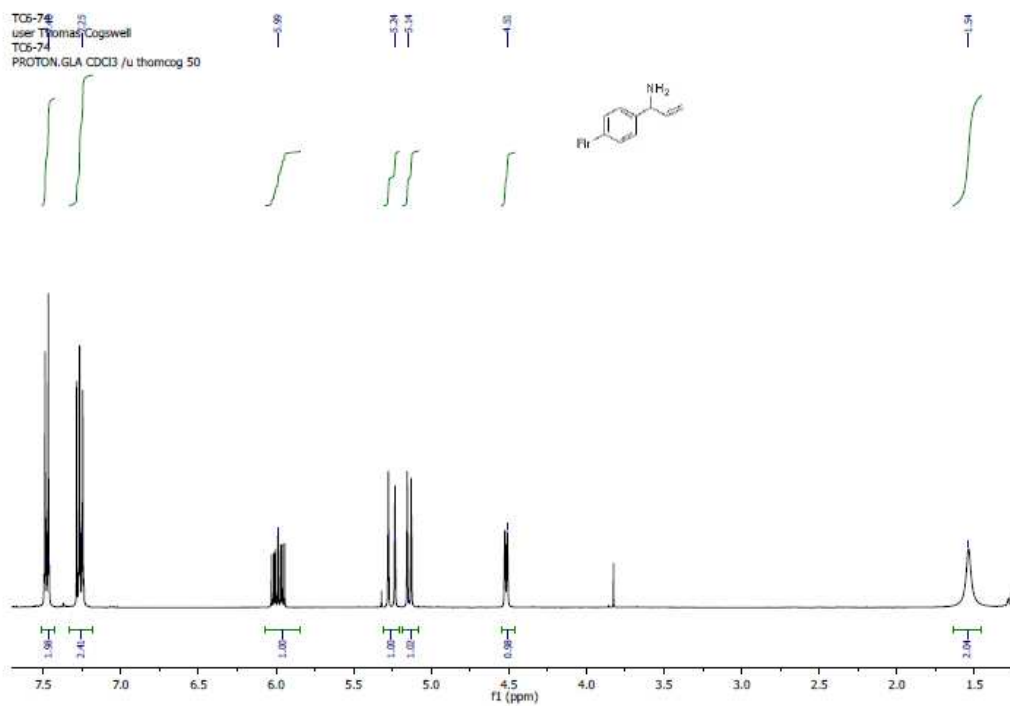
1-(4'-Methoxyphenyl)prop-2-en-1-amine, 18a.



1-(4'-(Trifluoromethyl)phenyl)prop-2-en-1-amine, 18b.

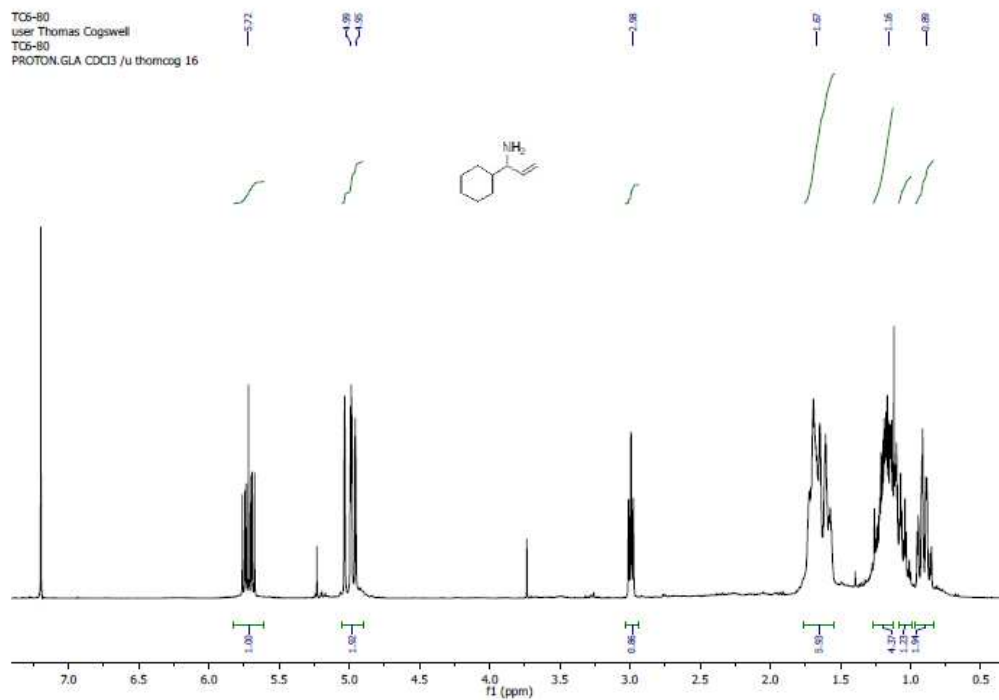


1-(4'-Bromophenyl)-2-propenylamine, 18c.

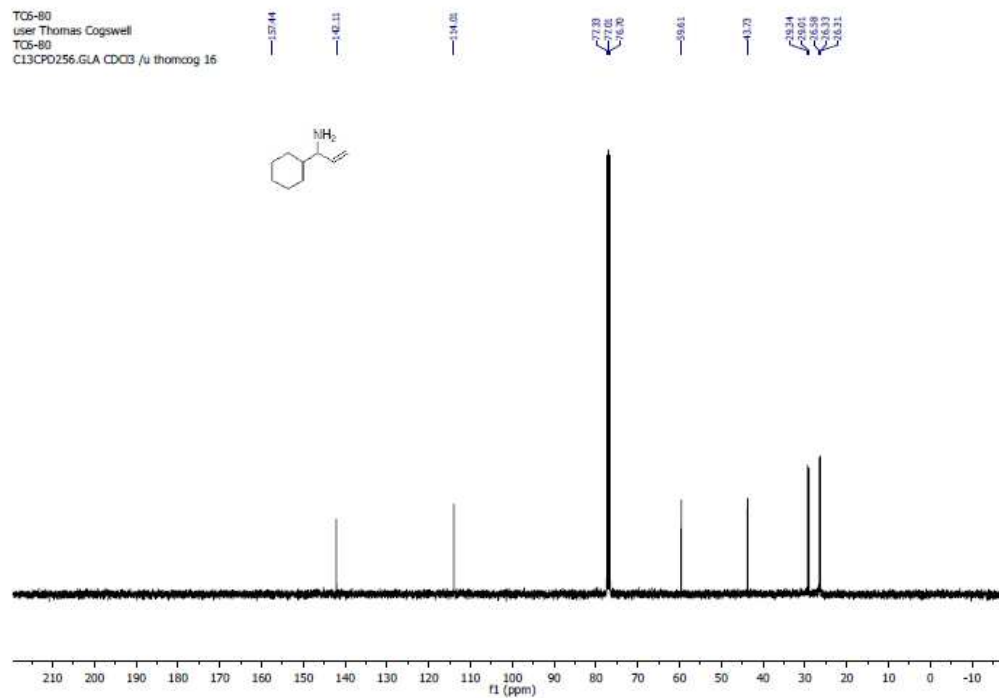


1-Cyclohexylprop-2-en-1-amine, 18d.

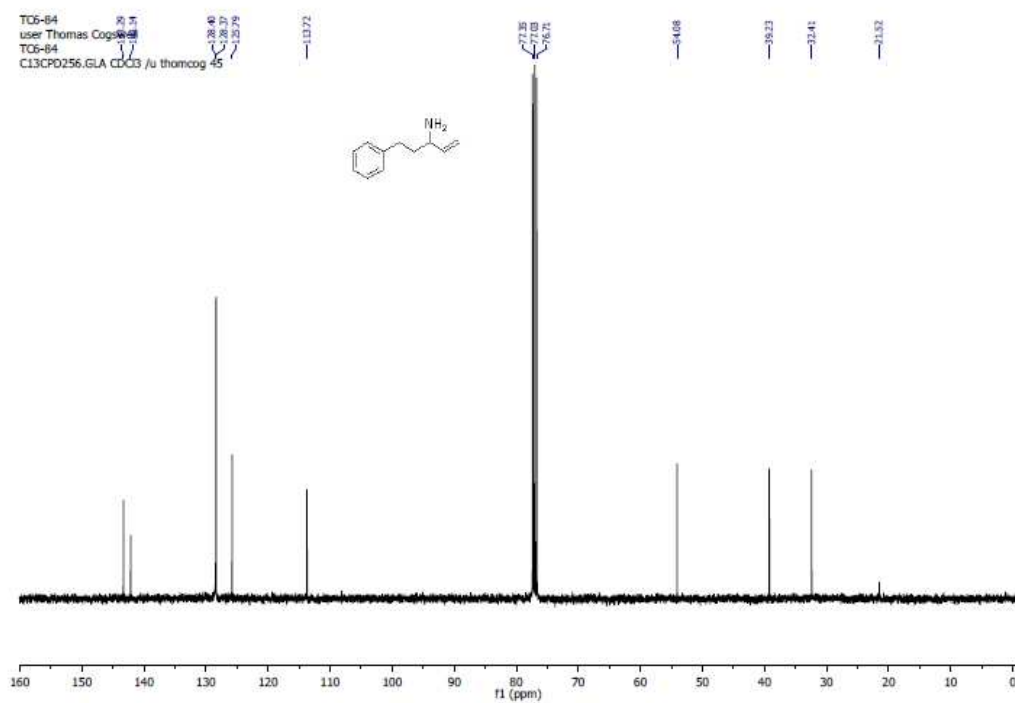
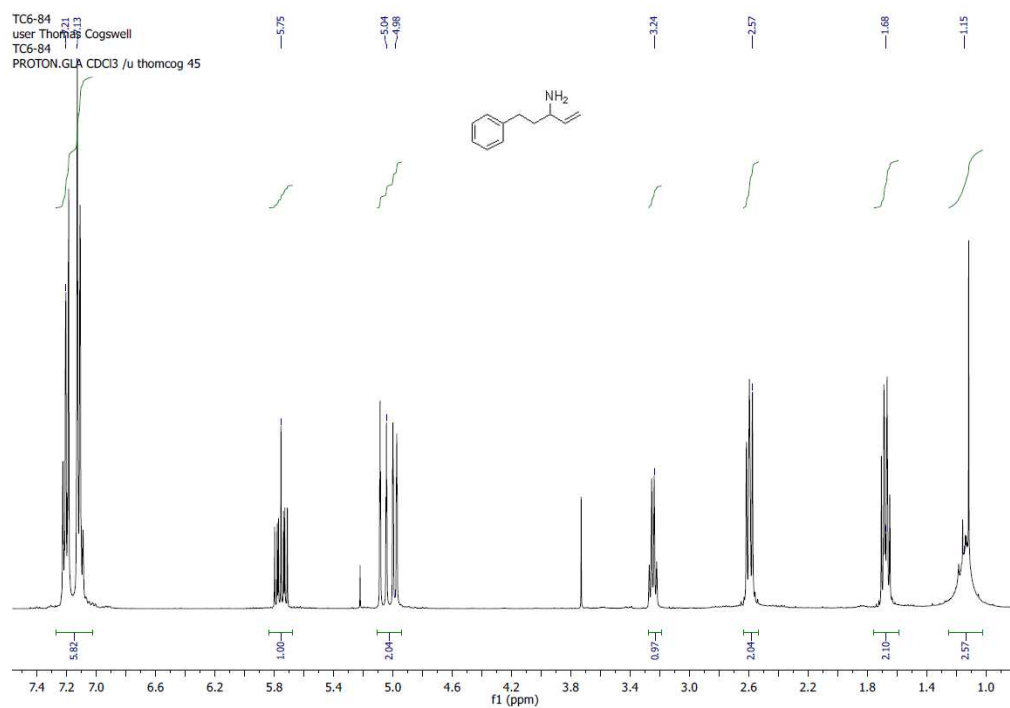
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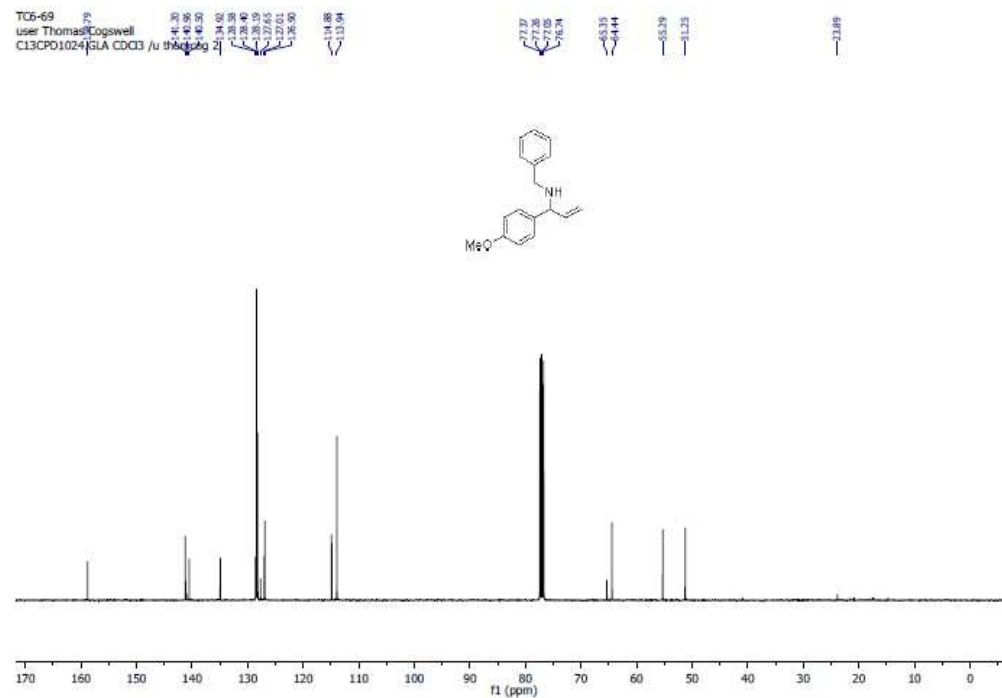
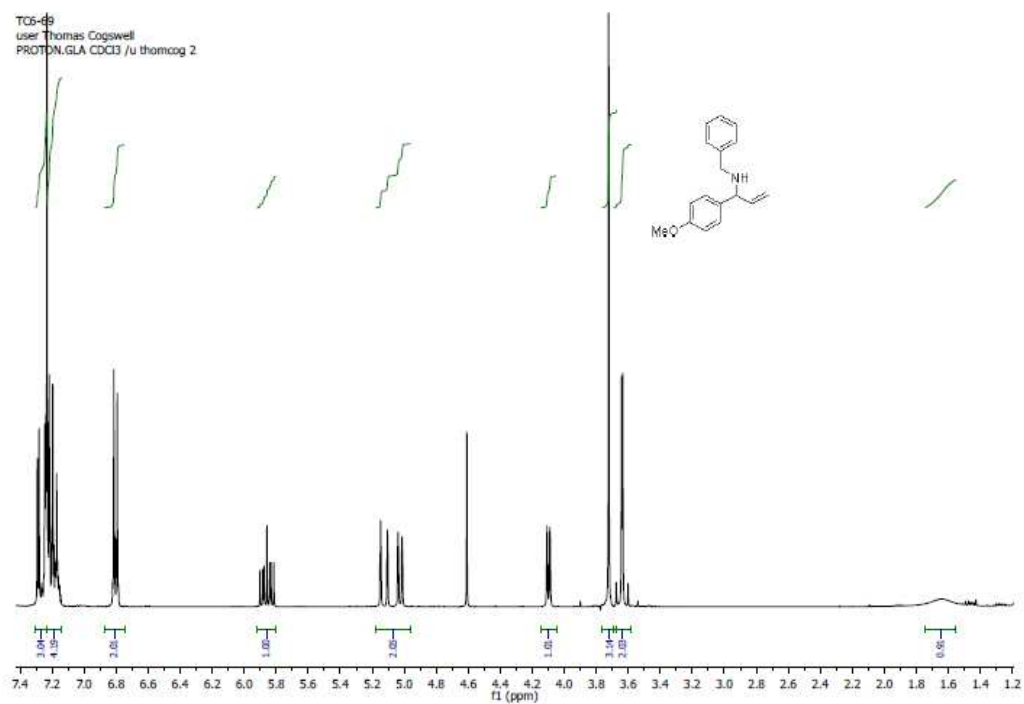
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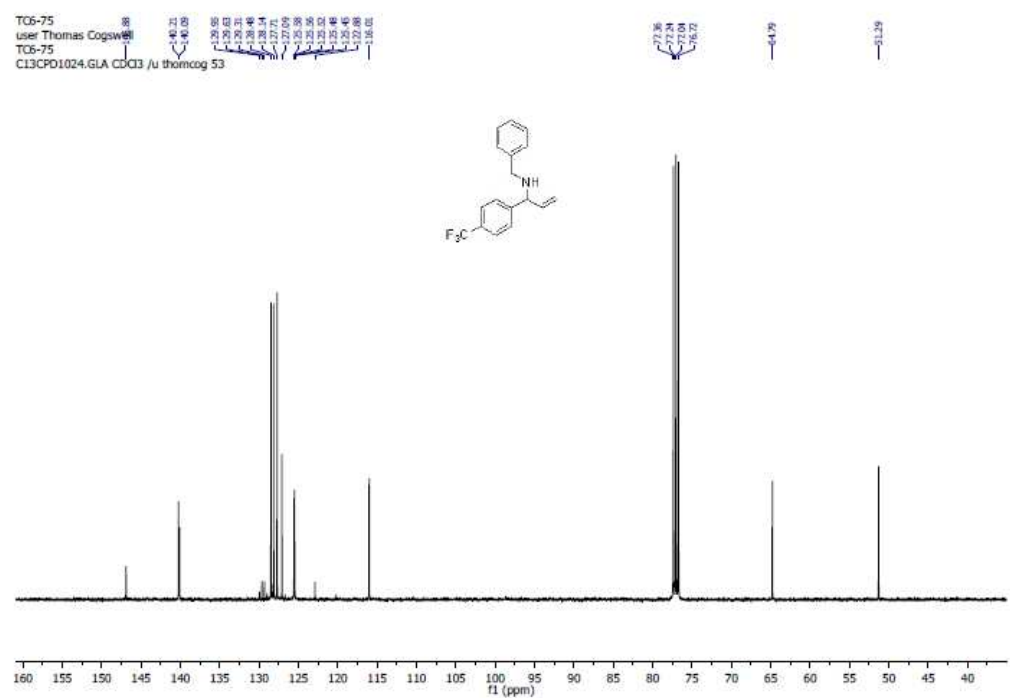
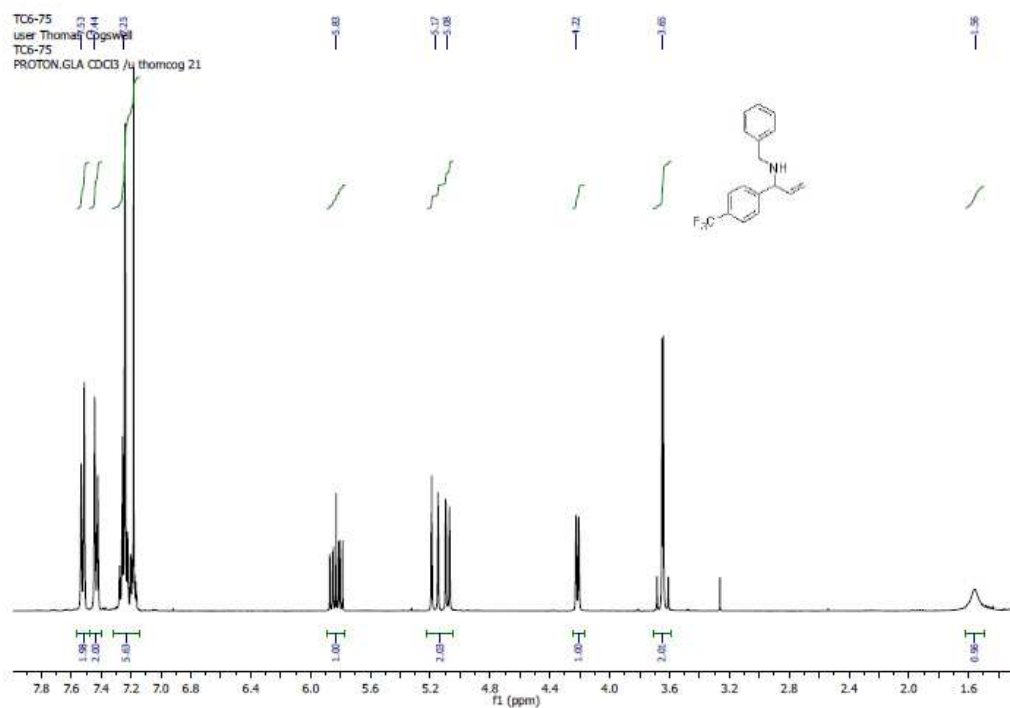
5-Phenylpent-1-en-3-amine, 18e.



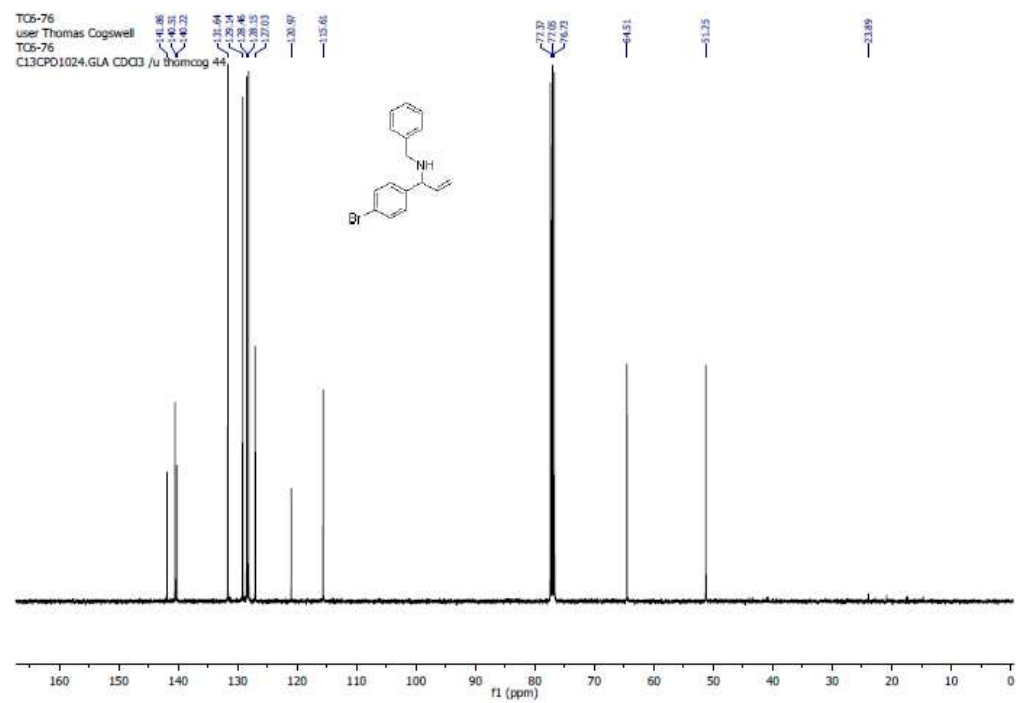
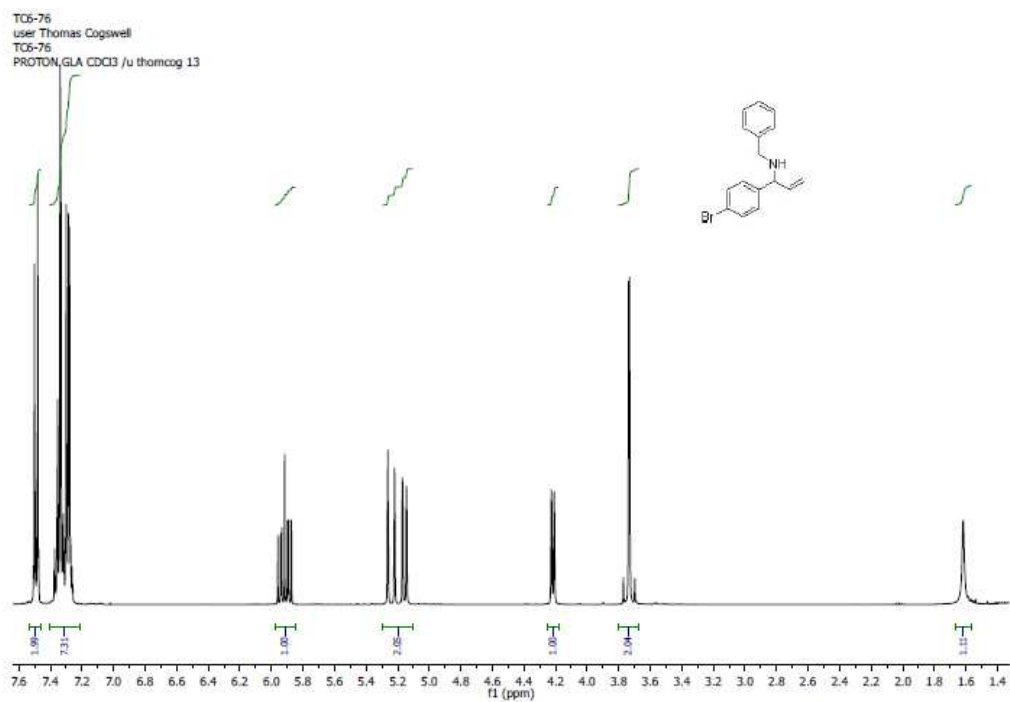
***N*-[1-(4'-Methoxyphenyl)-2-propenyl]benzylamine, 19a.**



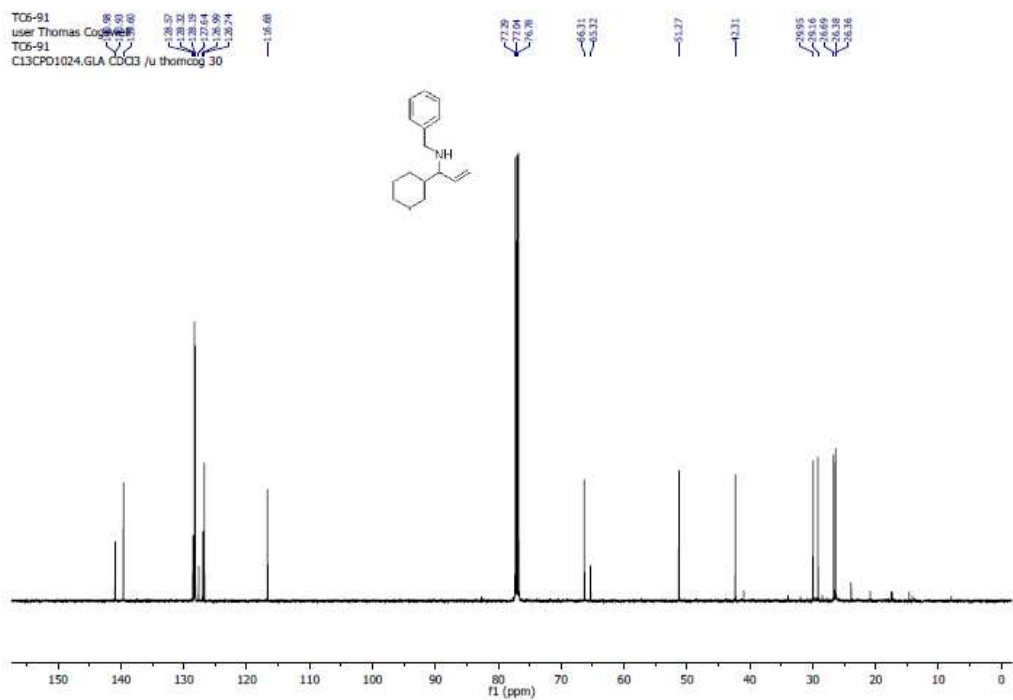
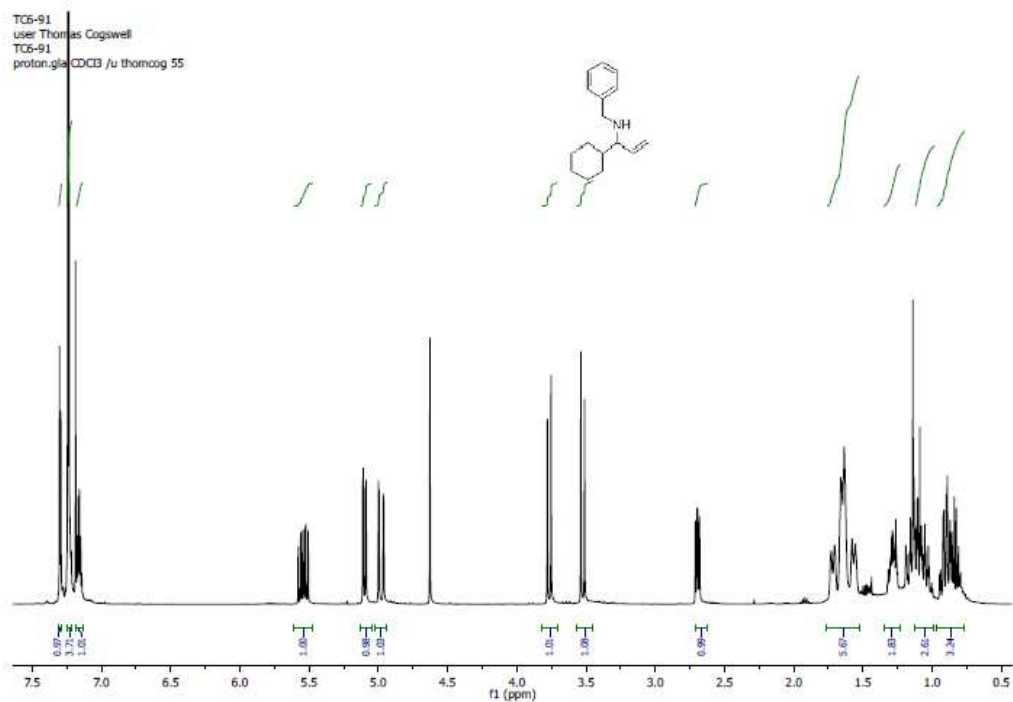
***N*-[1-(4'-(Trifluoromethyl)phenyl)-2-propenyl]benzylamine, 19b.**



N-[1-(4'-Bromophenyl)-2-propenyl]benzylamine, 19c.

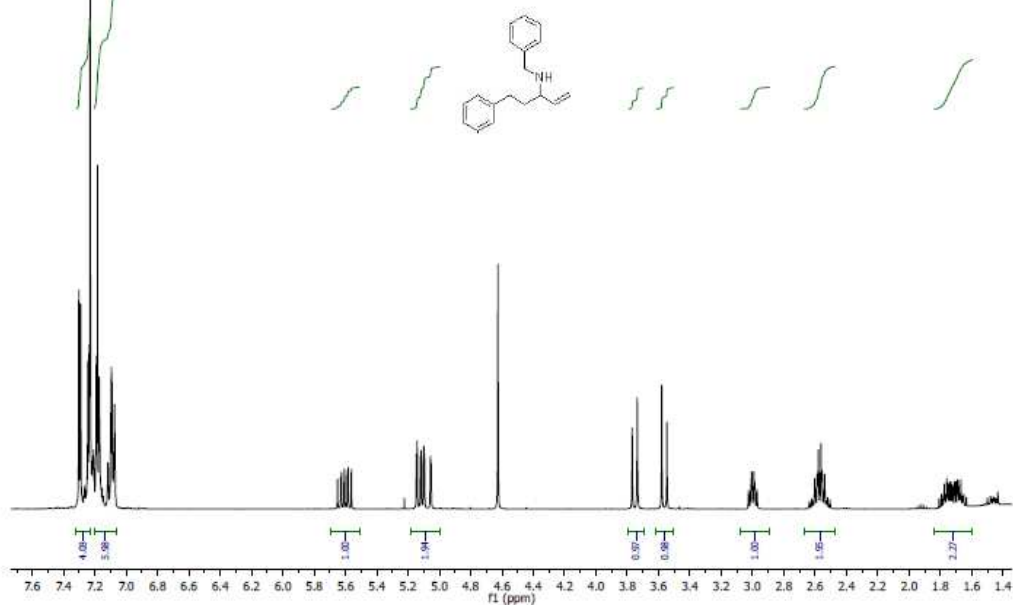


N-[1-Cyclohexyl-2-propenyl]benzylamine, 19d.

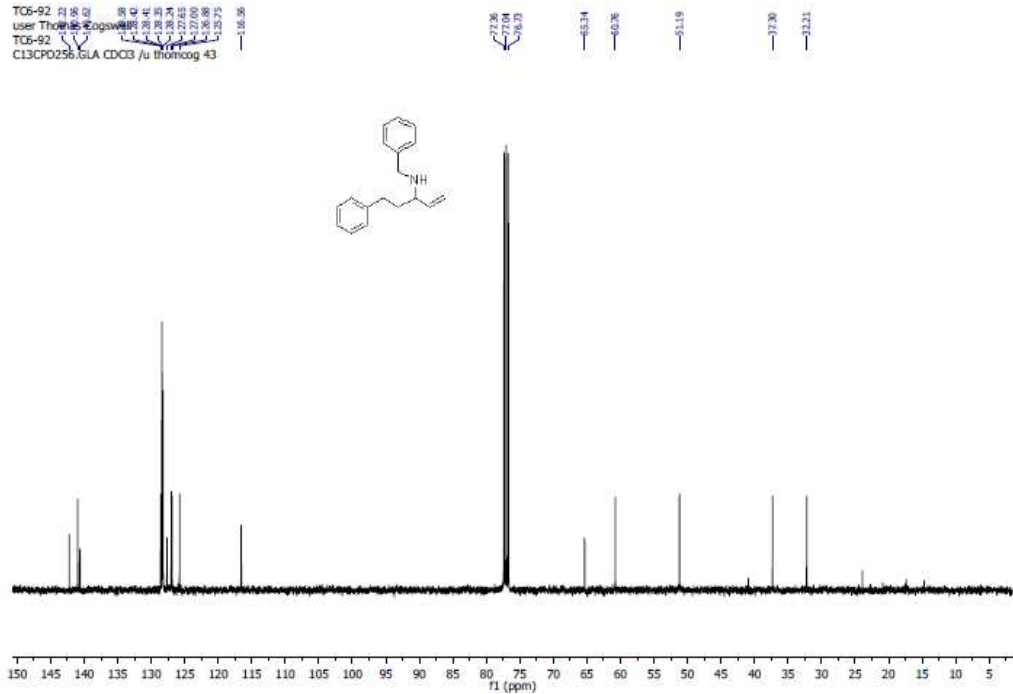


N-[5-Phenylpent-1-3-yl]benzylamine, 19e.

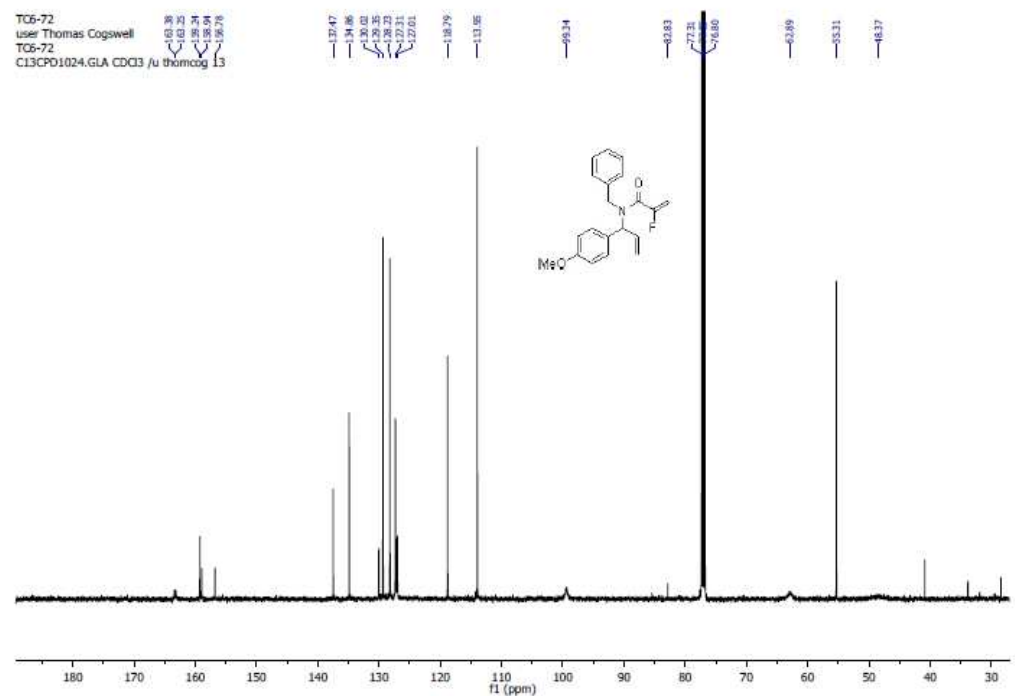
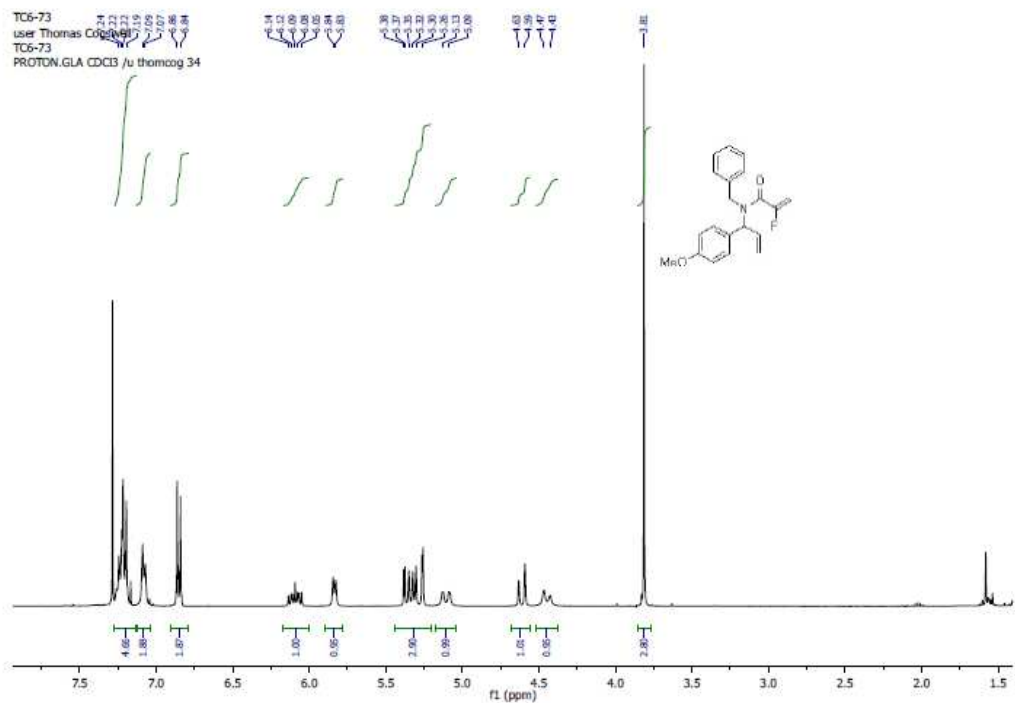
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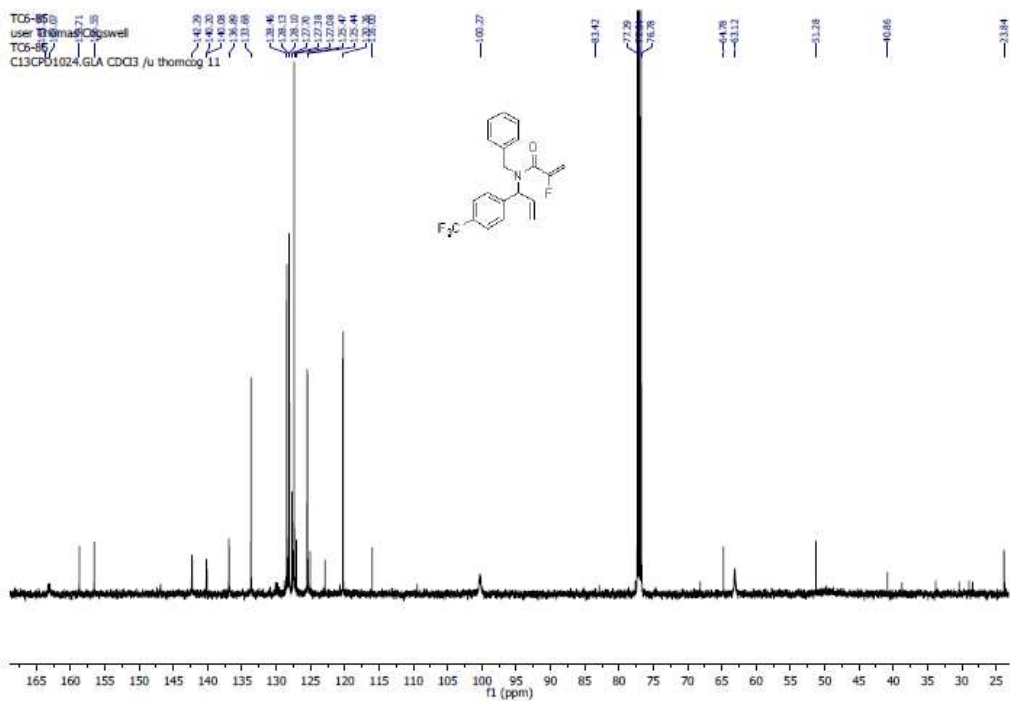
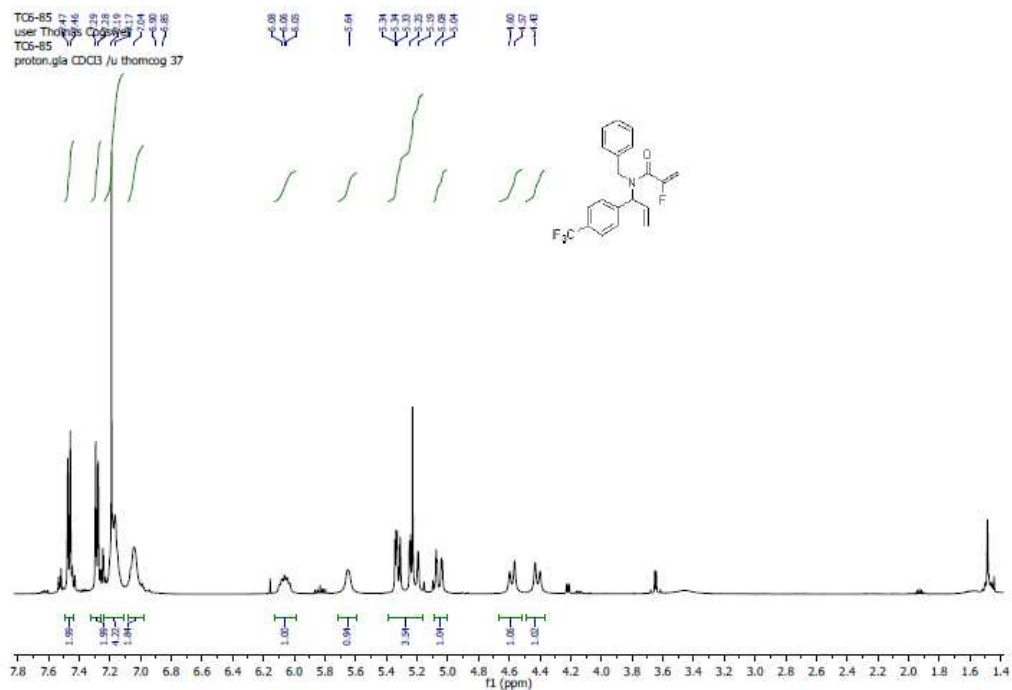
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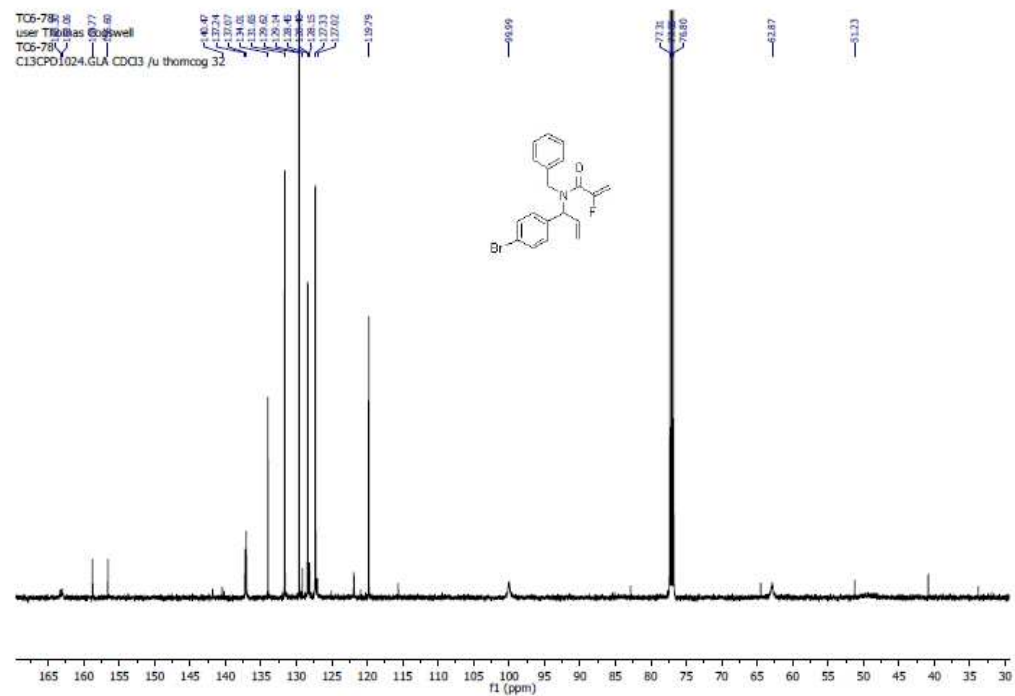
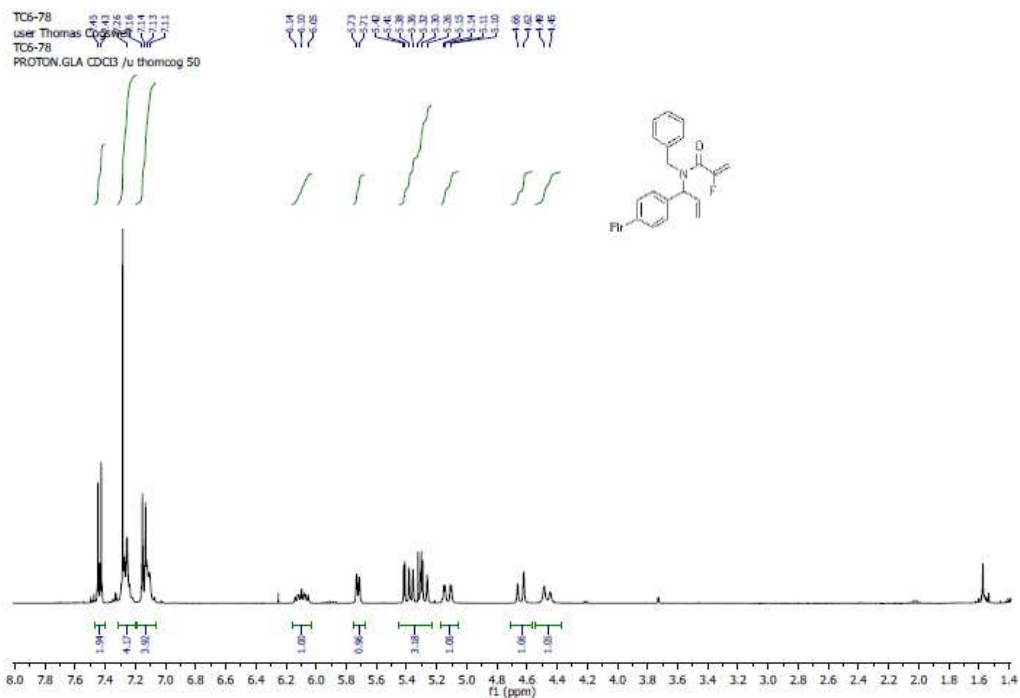
***N*-Benzyl-2-fluoro-*N*-[1'-(4'-methoxyphenyl)prop-2'-en-1'-yl]-prop-2-enamide, 20a.**



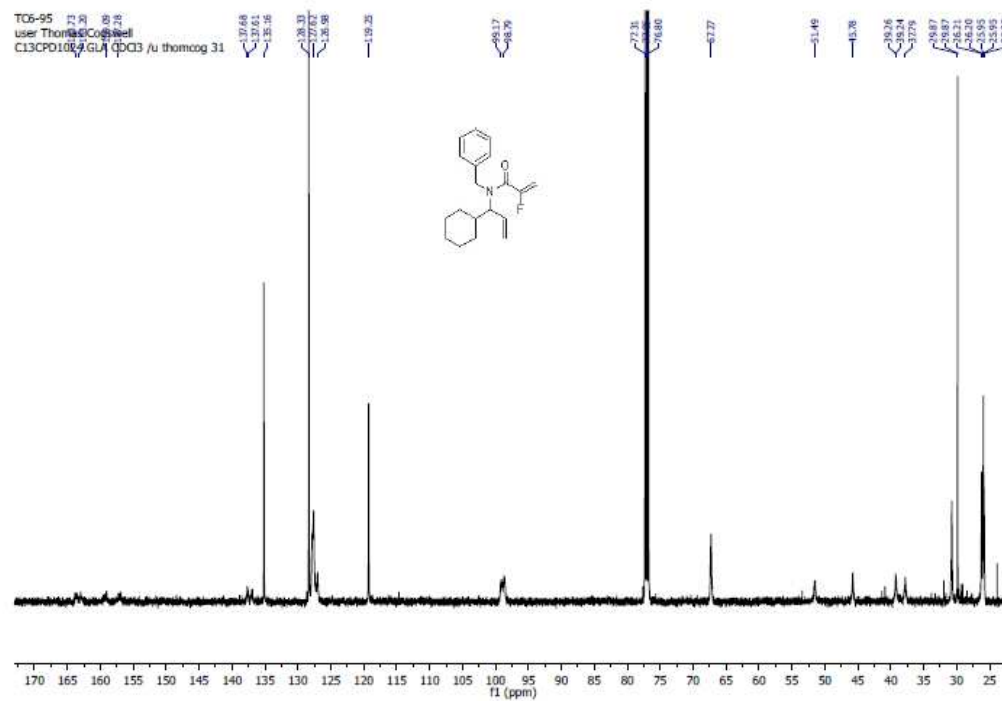
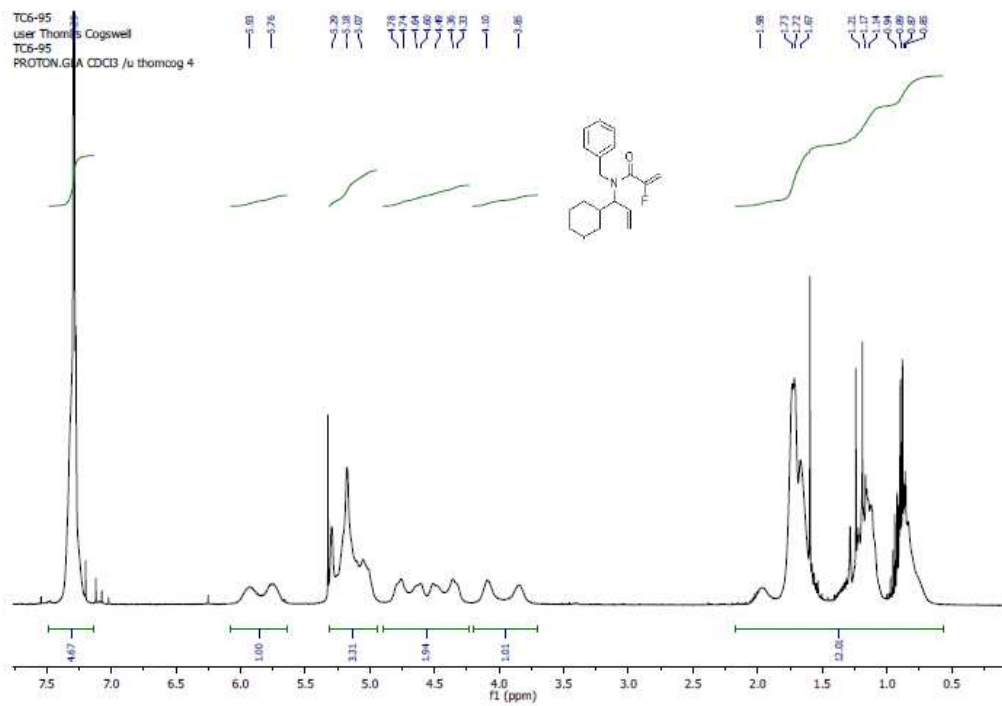
N-Benzyl-2-fluoro-N-[1'-(4''-trifluoromethanophenyl)prop-2'-en-1'-yl]-prop-2-enamide, 20b.



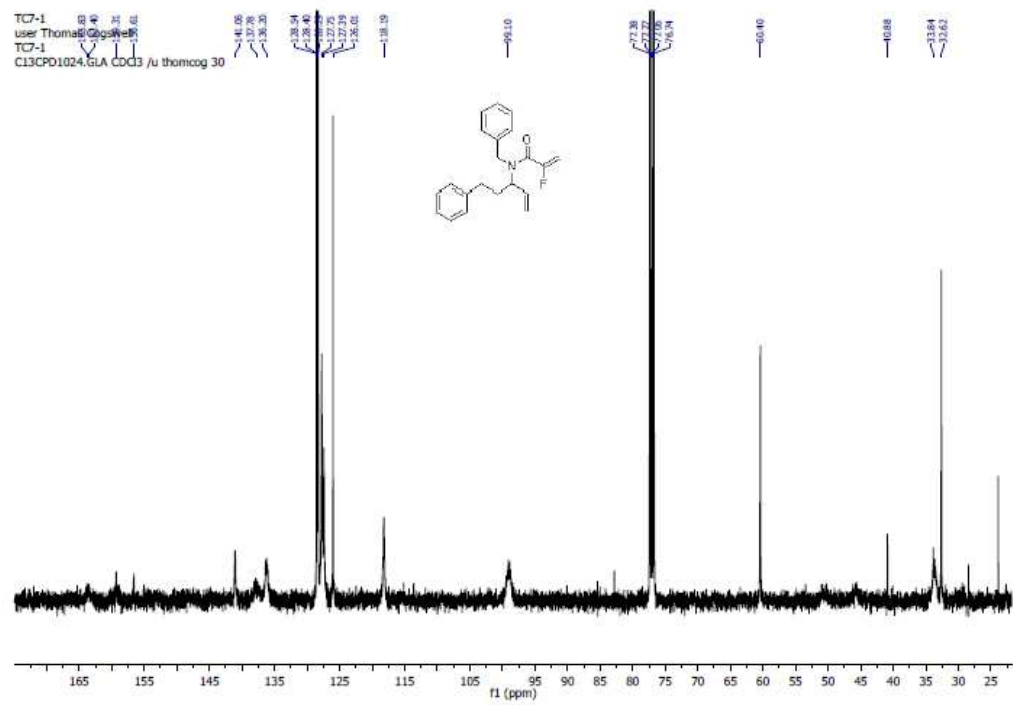
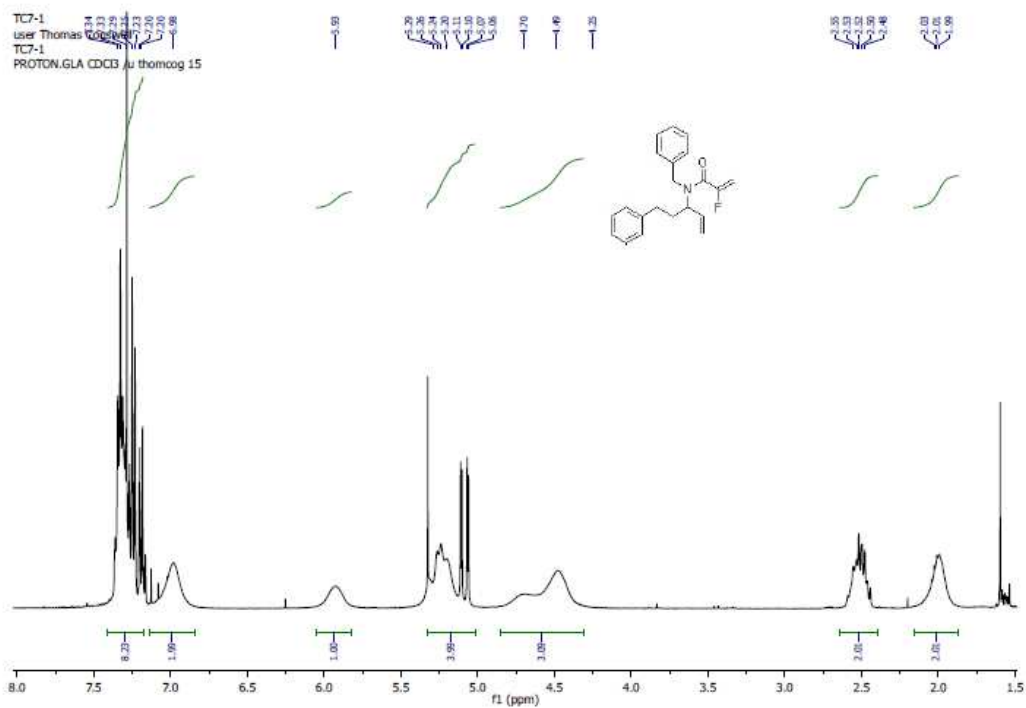
***N*-Benzyl-2-fluoro-*N*-[1'-(4''-bromophenyl)prop-2'-en-1'-yl]-prop-2-enamide, 20c.**



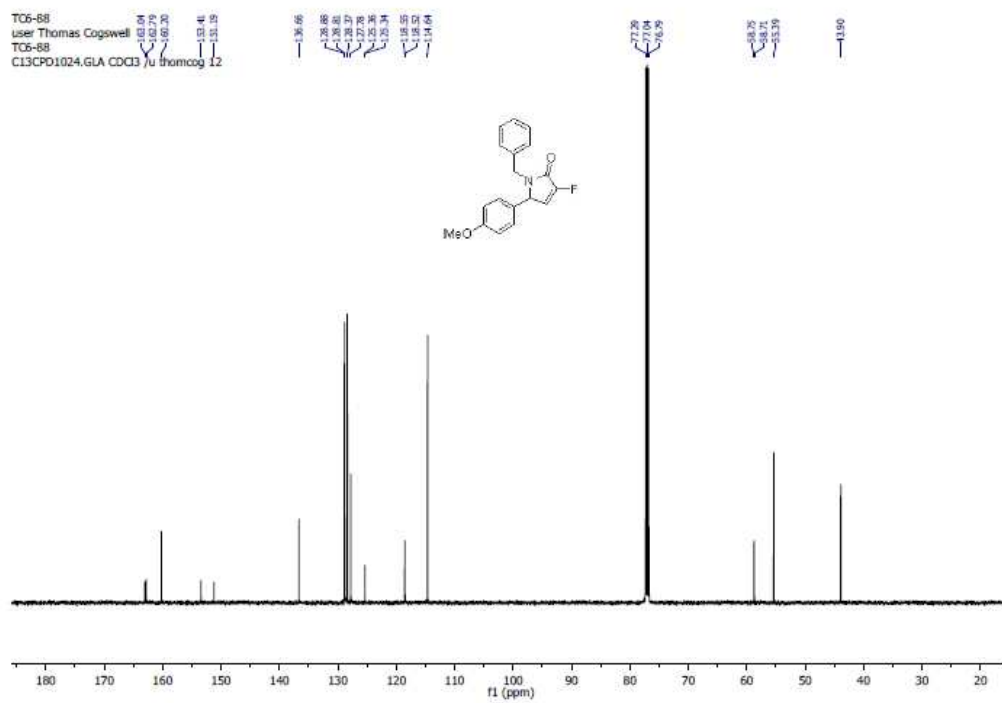
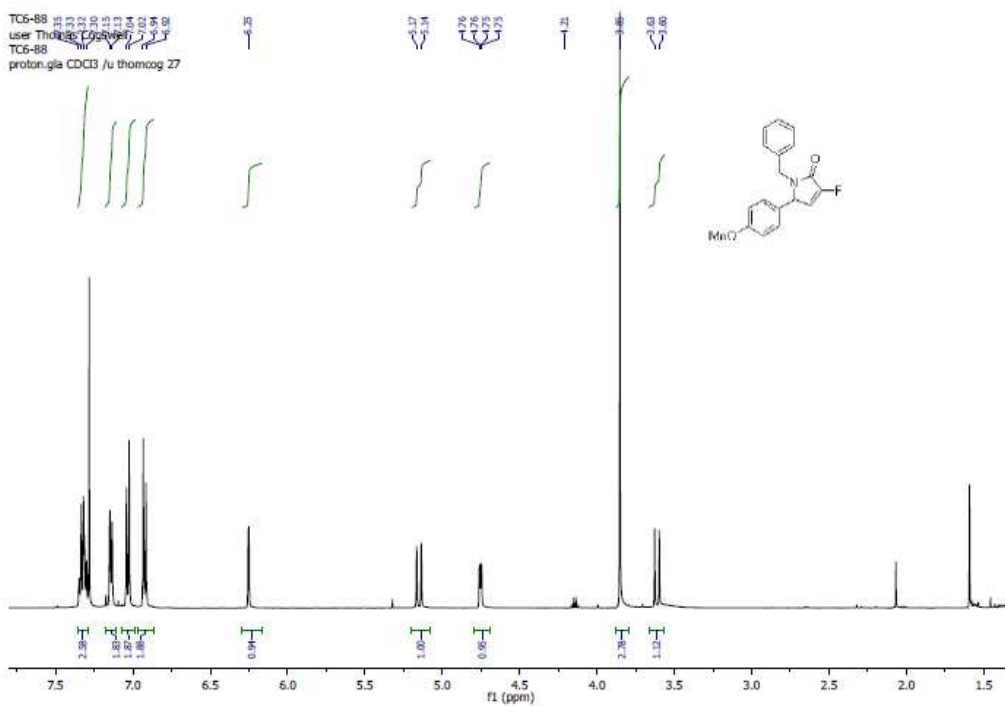
N-Benzyl-2-fluoro-N-[1'-cyclohexylprop-2'-en-1'-yl]-prop-2-enamide, 20d.



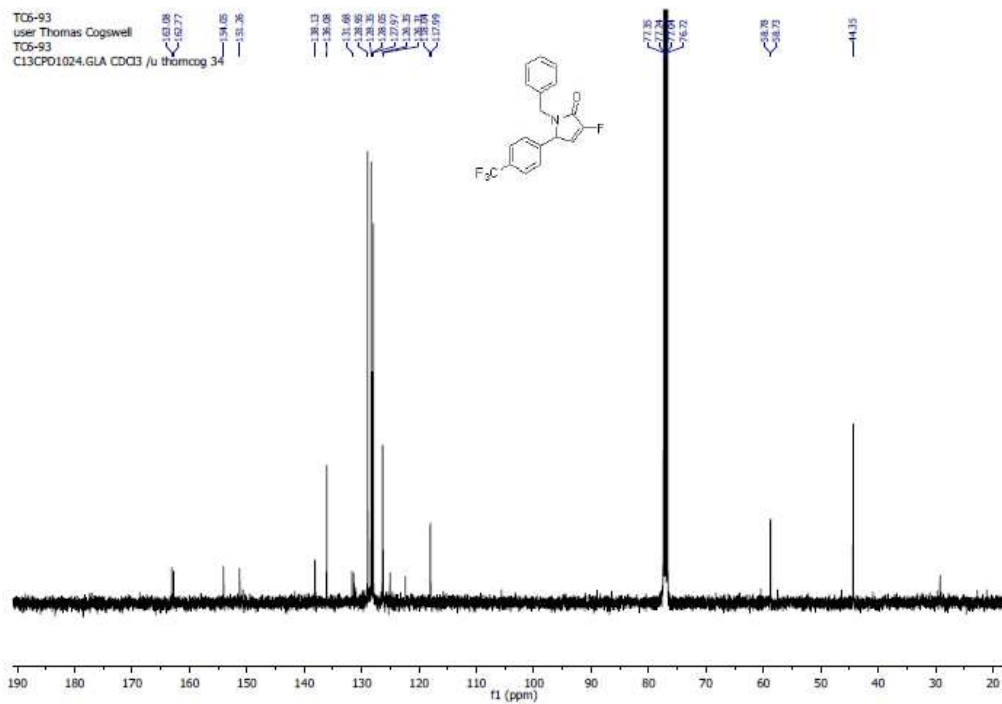
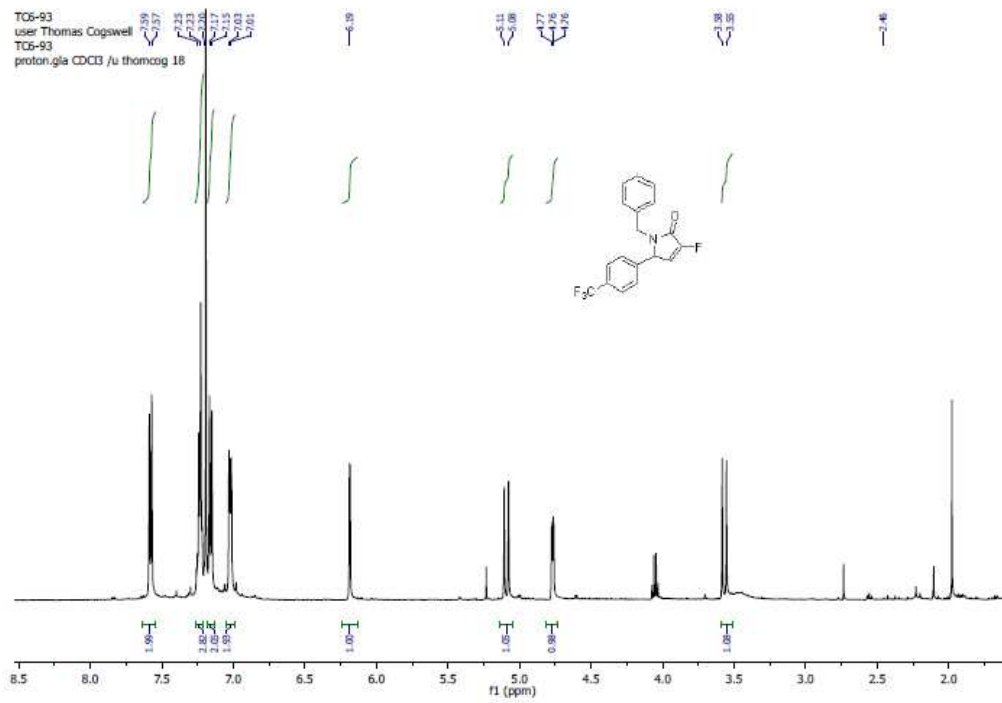
***N*-Benzyl-2-fluoro-*N*-[5'-phenylpent-1'-en-3'-yl]-prop-2-enamide, 20e.**



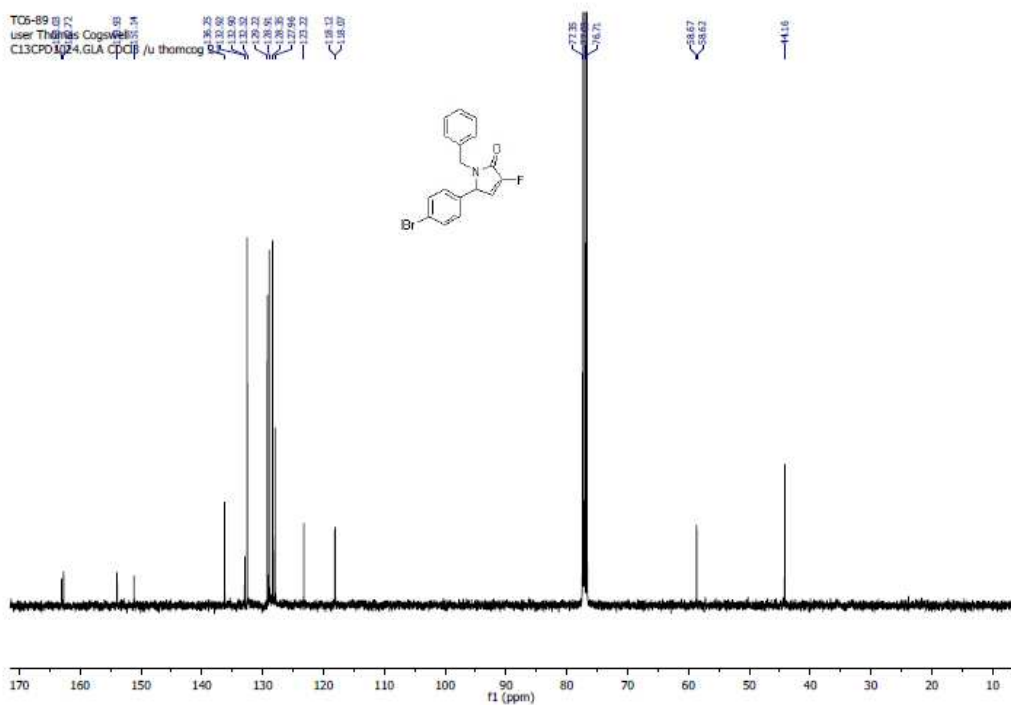
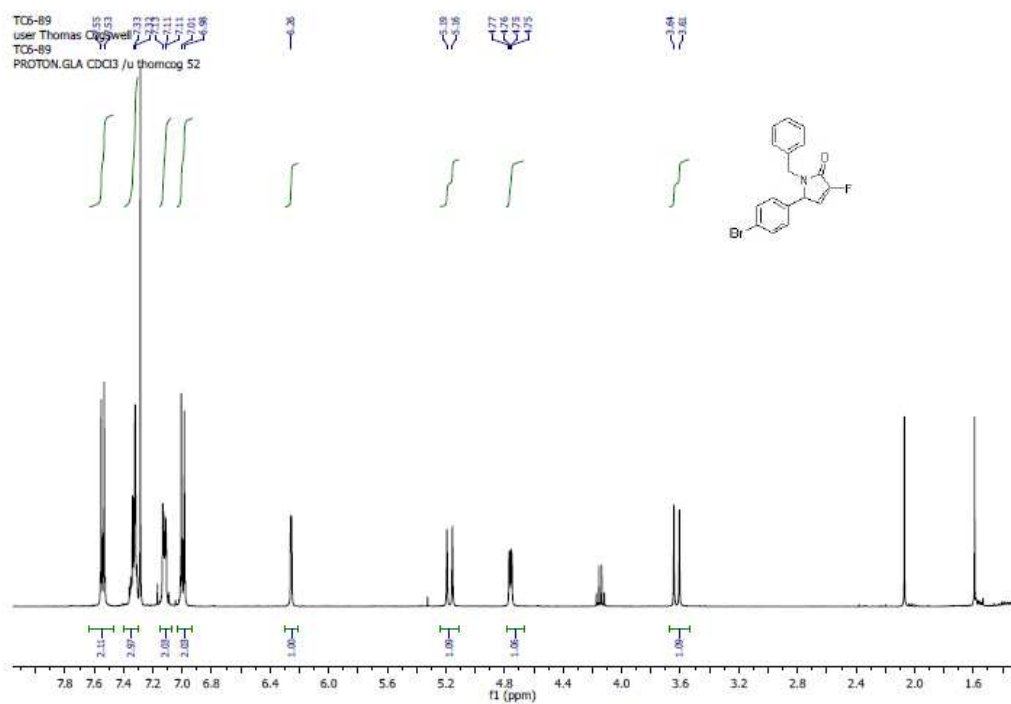
1-Benzyl-3-fluoro-5-(4'-methoxyphenyl)-2,5-dihydro-1H-pyrrol-2-one. 21a.



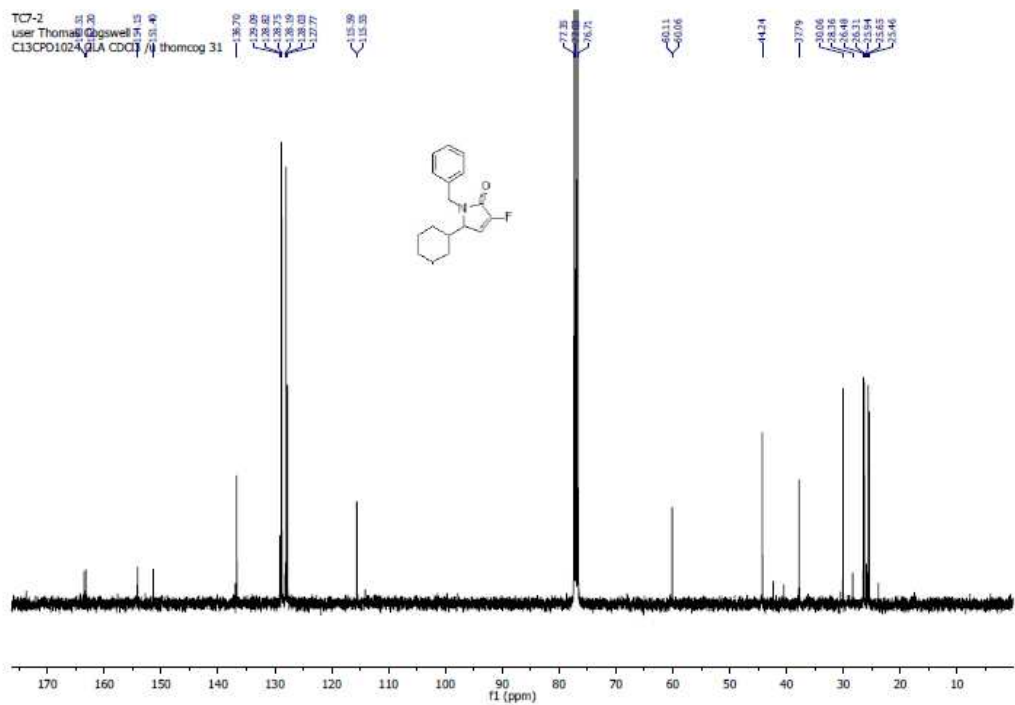
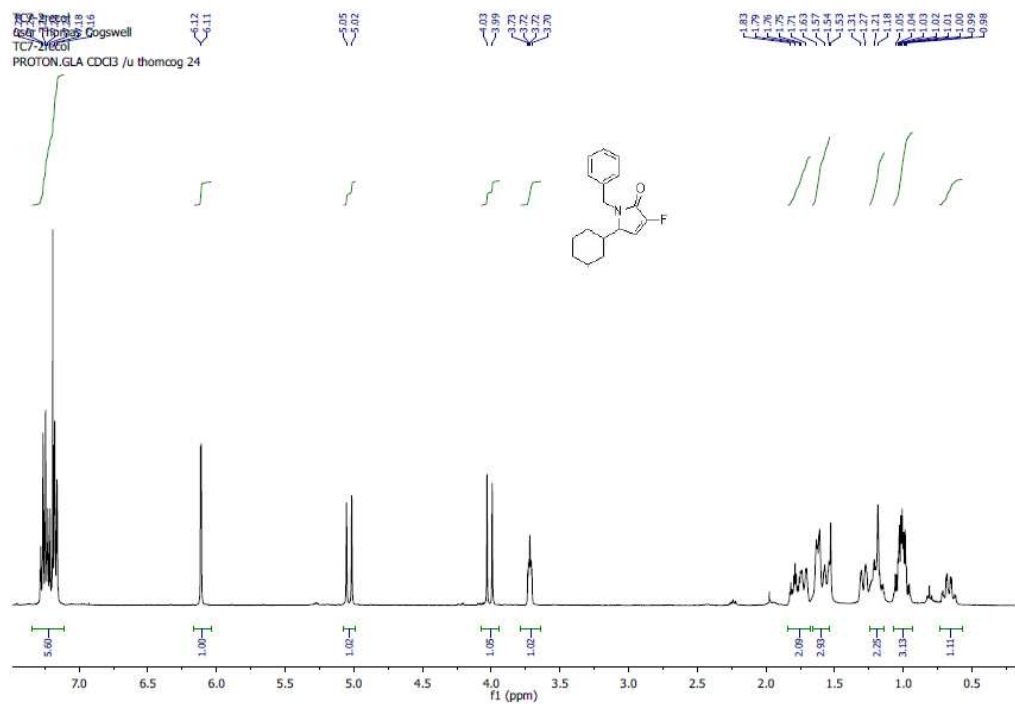
1-Benzyl-3-fluoro-5-[(4'-trifluoromethyl)phenyl]-2,5-dihydro-1H-pyrrol-2-one, 21b.



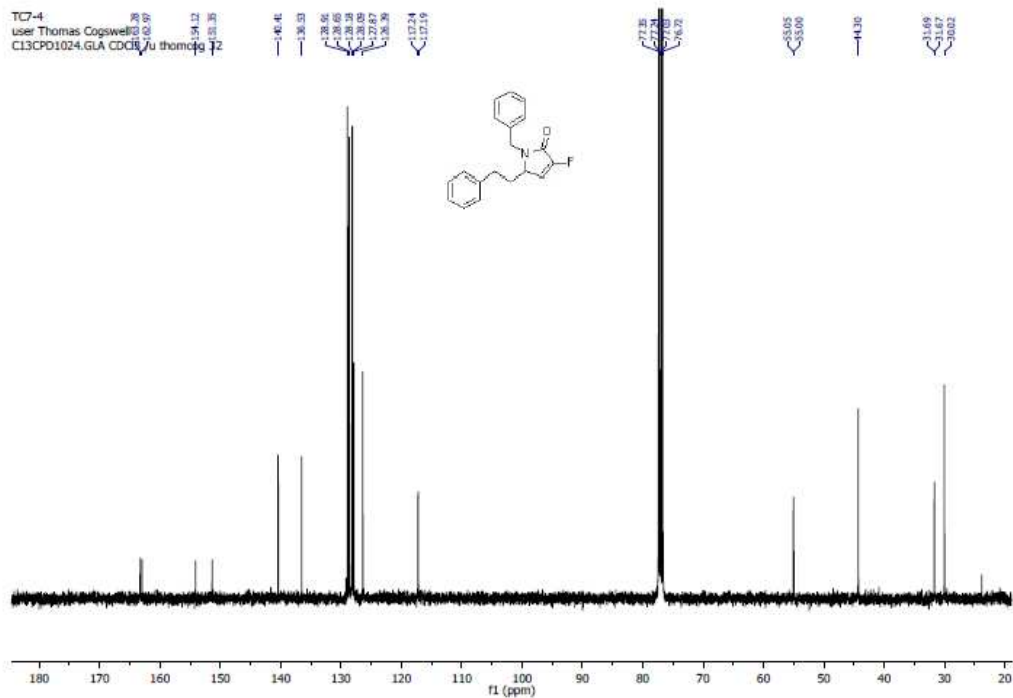
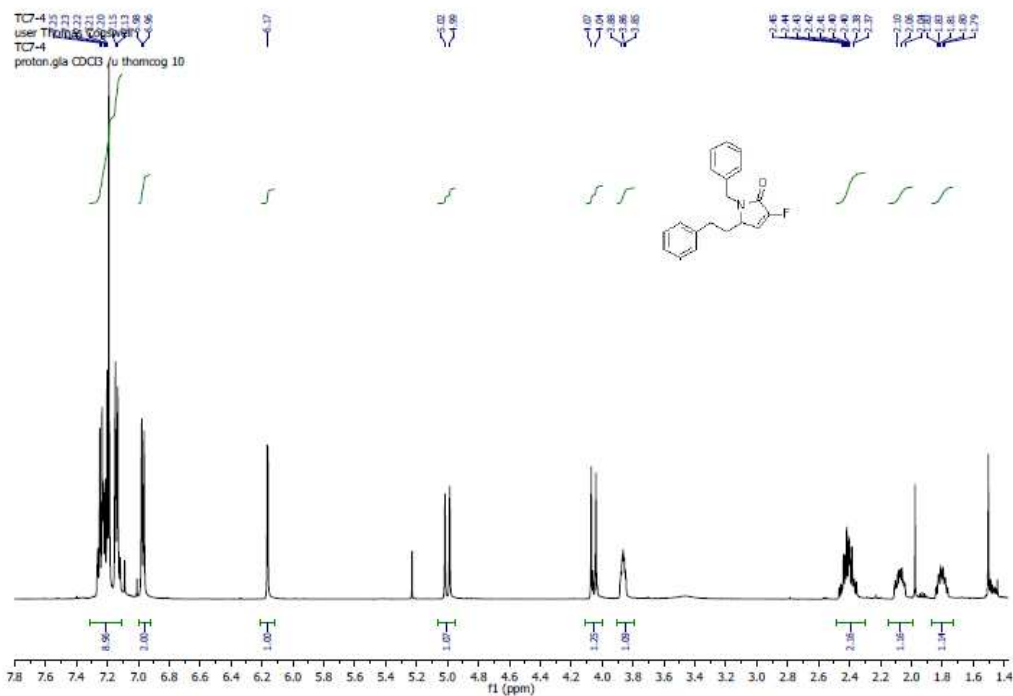
1-Benzyl-3-fluoro-5-(4'-bromophenyl)-2,5-dihydro-1H-pyrrol-2-one, 21c.



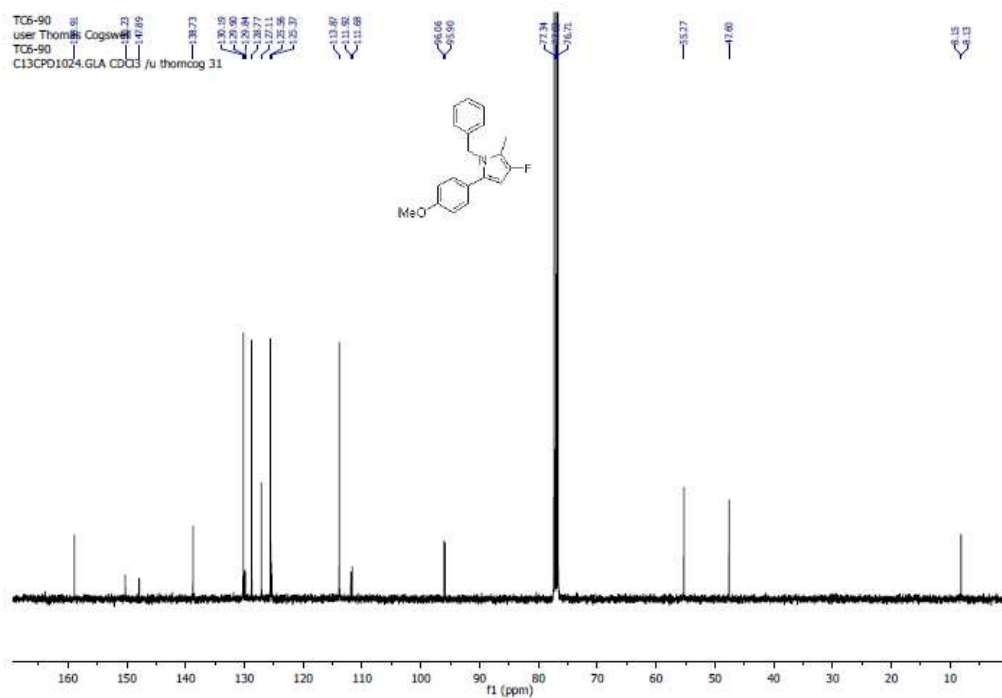
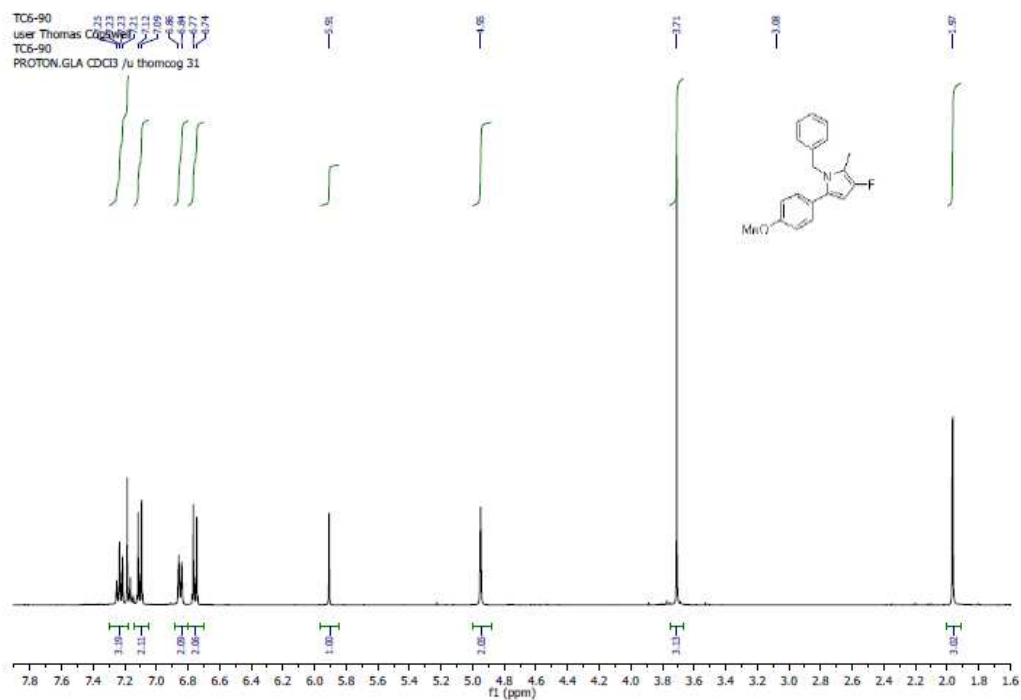
1-Benzyl-3-fluoro-5-cyclohexyl-2,5-dihydro-1H-pyrrol-2-one, 21d.



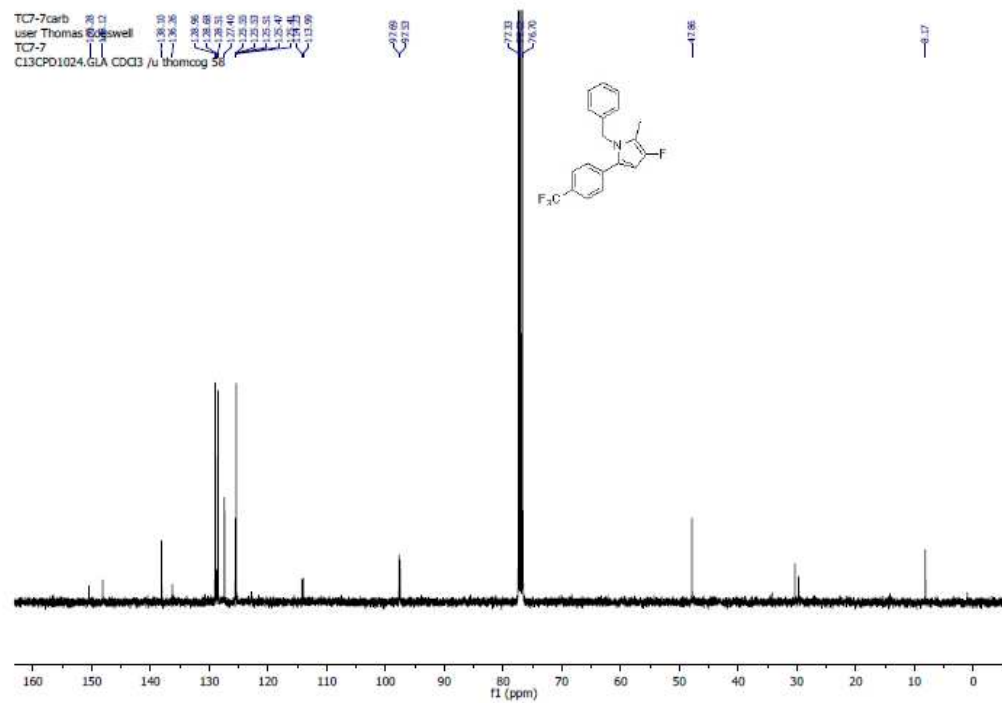
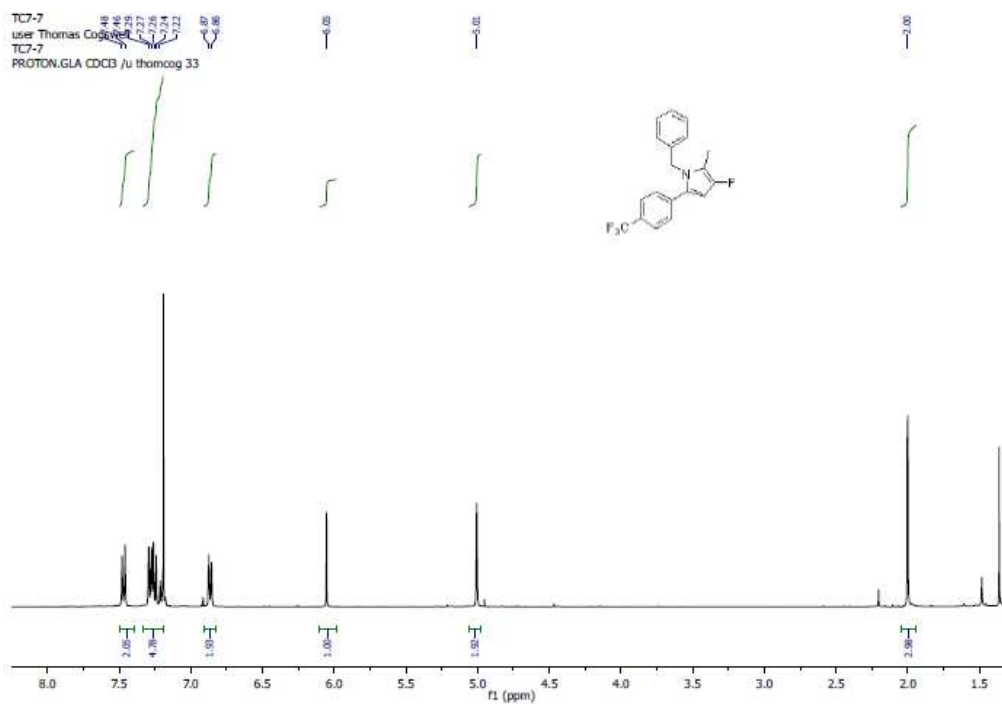
1-Benzyl-3-fluoro-5-(2'-phenylethyl)-2,5-dihydro-1H-pyrrol-2-one, 21e.



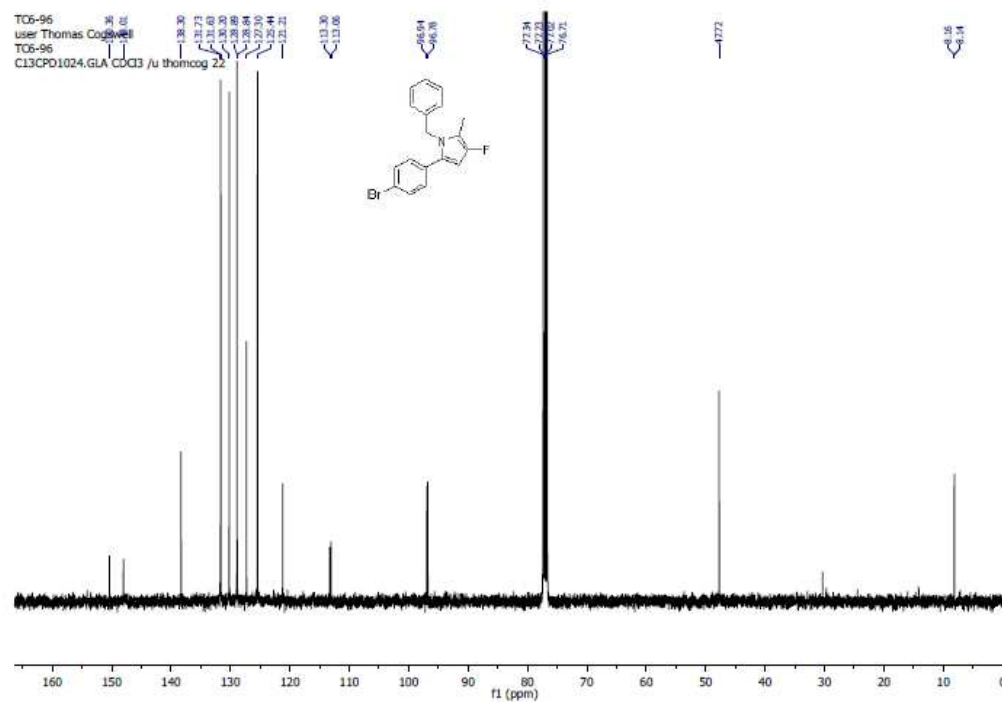
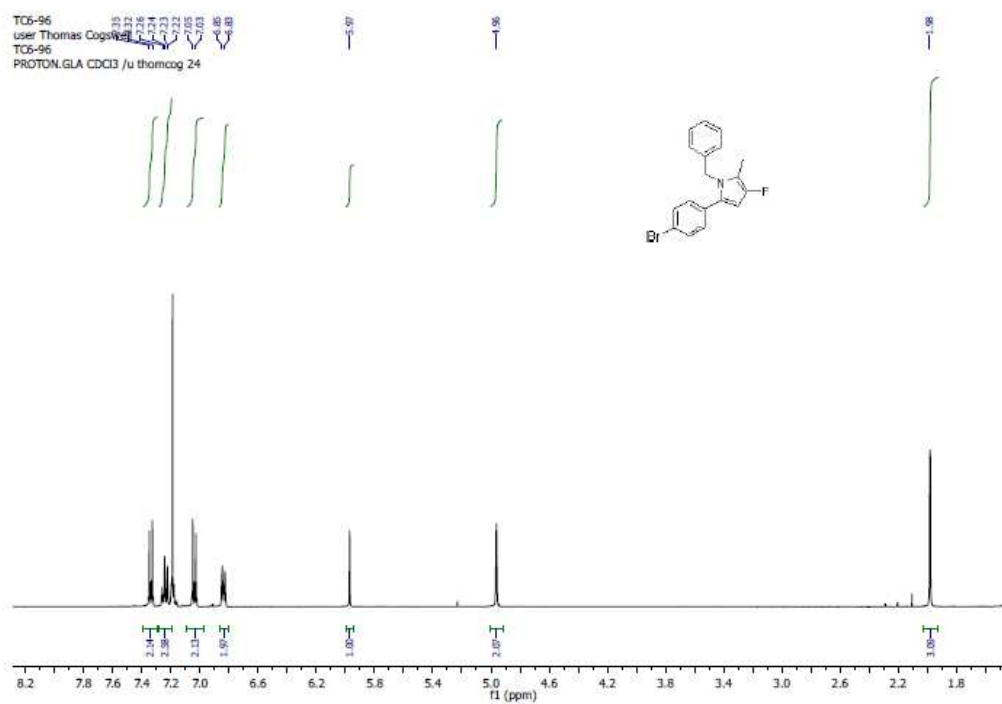
1-Benzyl-3-fluoro-5-(4'-methoxyphenyl)-2-methyl-1H-pyrrole, 22a.



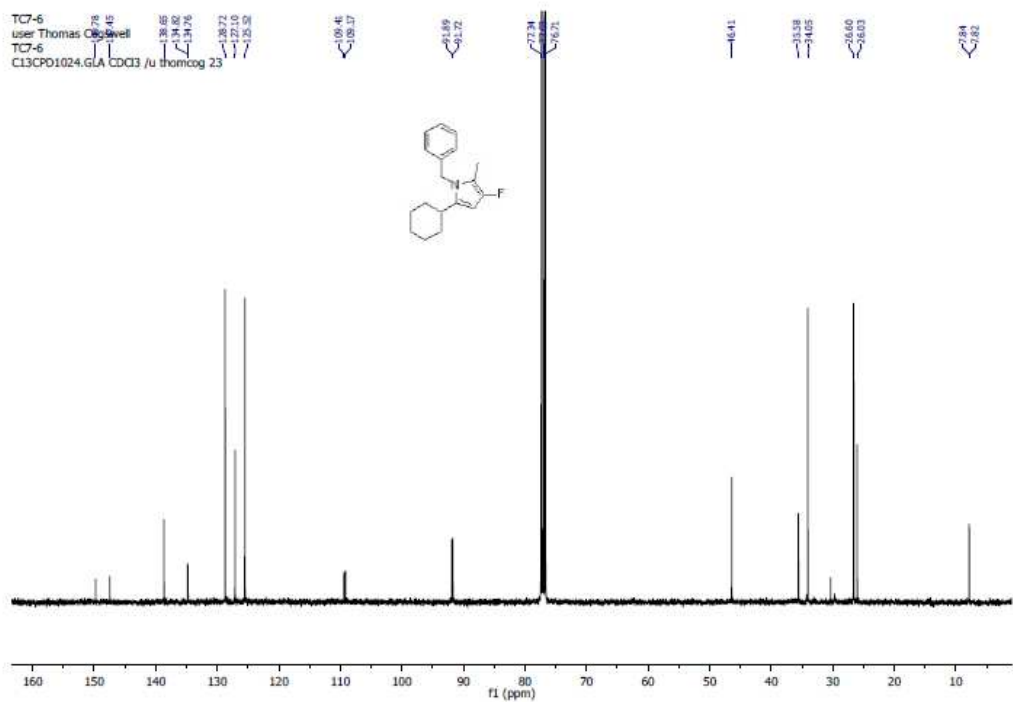
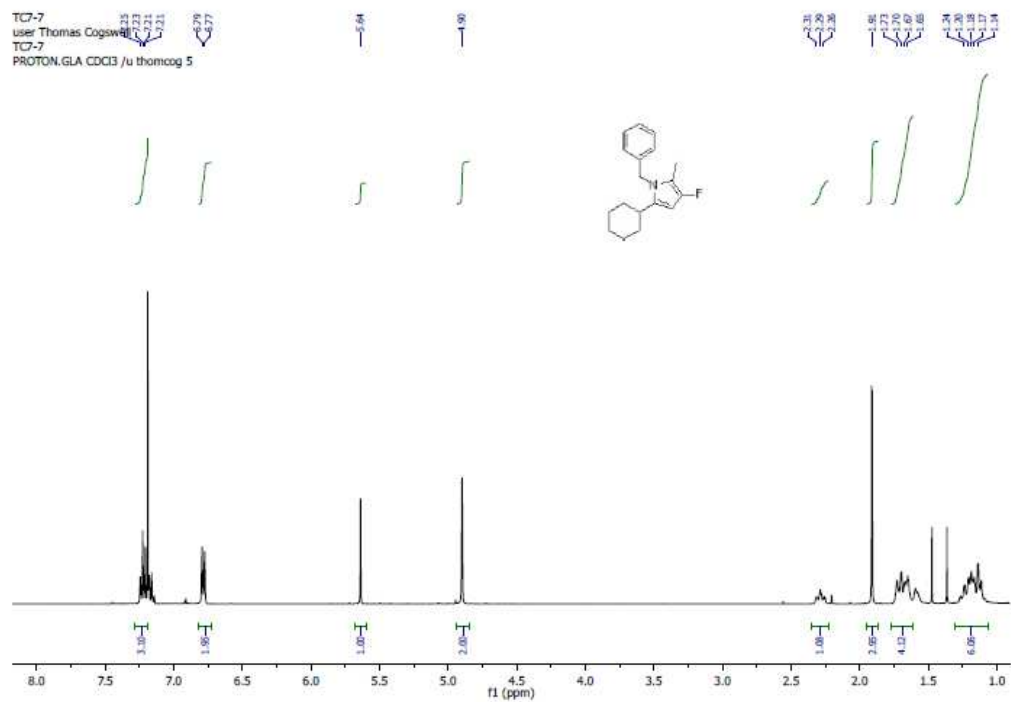
1-Benzyl-3-fluoro-2-methyl-5-[(4'-trifluoromethyl)phenyl]-1H-pyrrole, 22b.



1-Benzyl-5-(4'-bromophenyl)-3-fluoro-2-methyl-1H-pyrrole, 22c.



1-Benzyl-5-cyclohexyl-3-fluoro-2-methyl-1H-pyrrole, 22d.



1-Benzyl-3-fluoro-2-methyl-5-(2'-phenylethyl)-1H-pyrrole, 22e.

