

**Immobilized Ruthenium Metal-Containing Ionic Liquid-Catalyzed
Dehydrogenation of Dimethylamine Borane Complex for the Reduction of
Olefins and Nitroarenes**

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Mumbai-400019, India.

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Tel.: +91 22 33612603; Fax: +91 22 33611020.

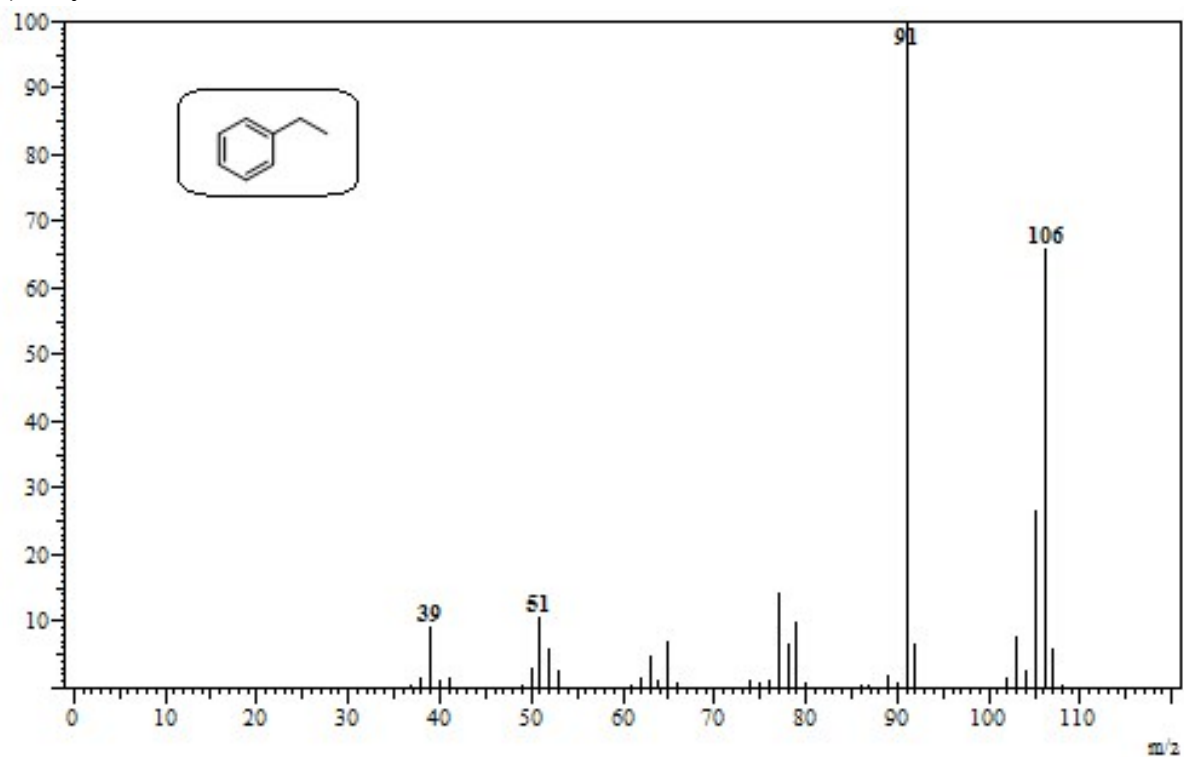
^b Department of Complexity Science and Engineering, Graduate School of Frontier Sciences,
The University of Tokyo, 5-1-5, Kashiwanoha, Kashiwa, Chiba 277-8561, Japan.

Supporting Information

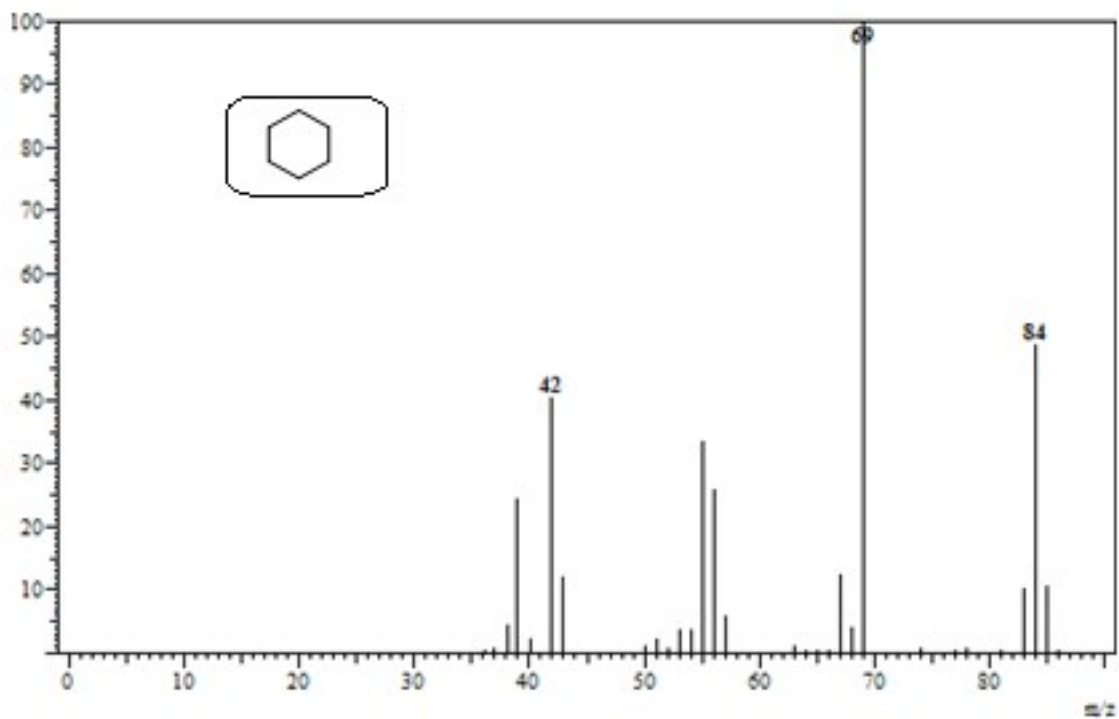
Sr. no.	Content
1	GCMS of all products
2	Copies of ¹ H and ¹³ C NMR Spectra of all products

1. GCMS of alkanes.

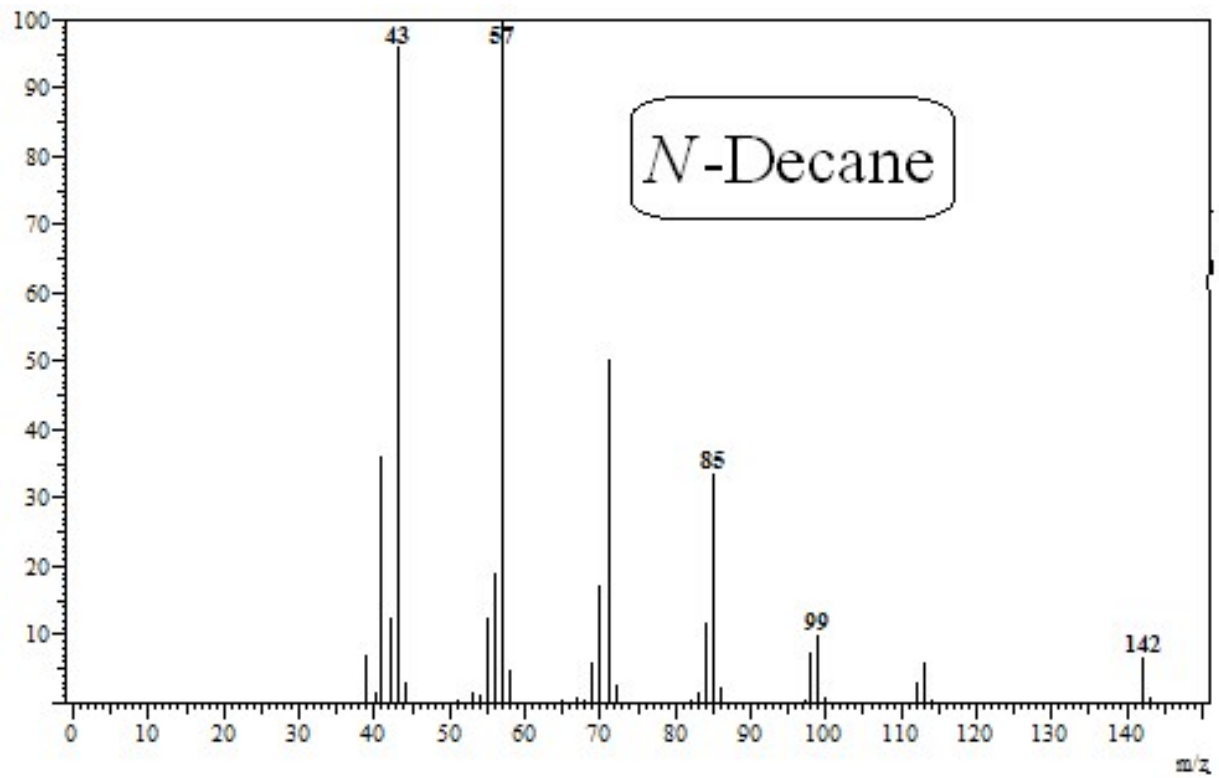
1) Ethyl benzen



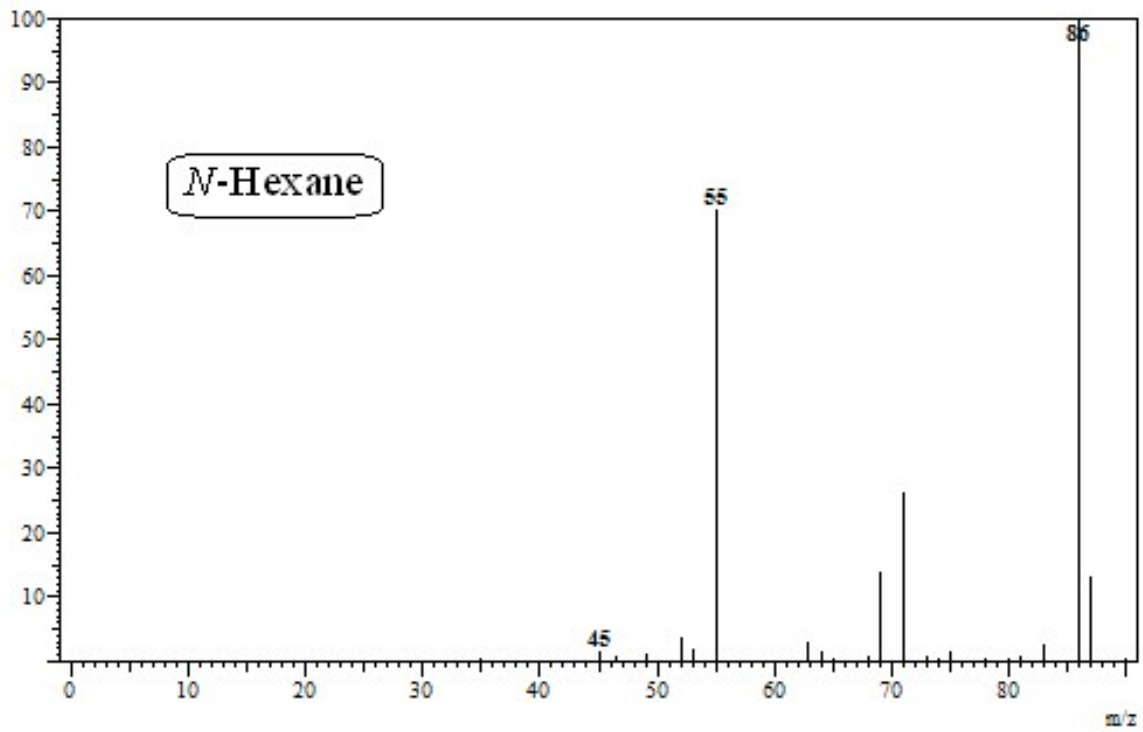
2) Cyclohexane



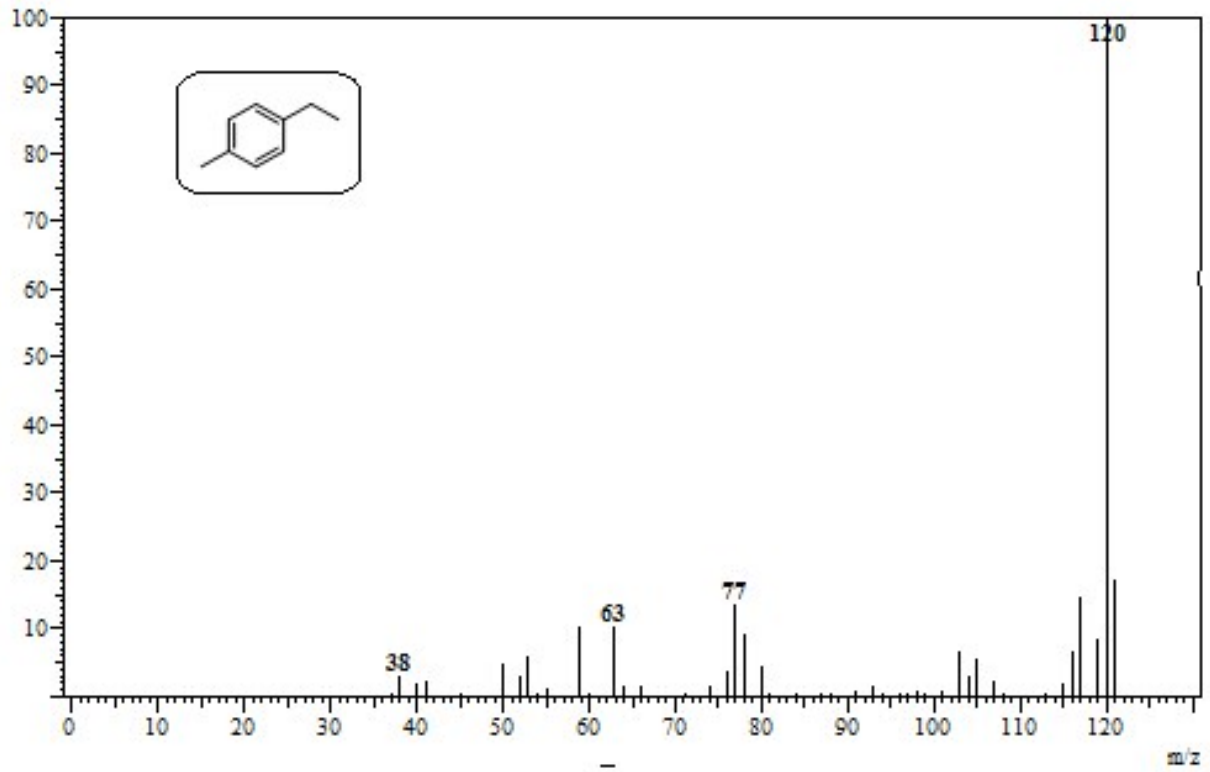
3) *N*-Decane



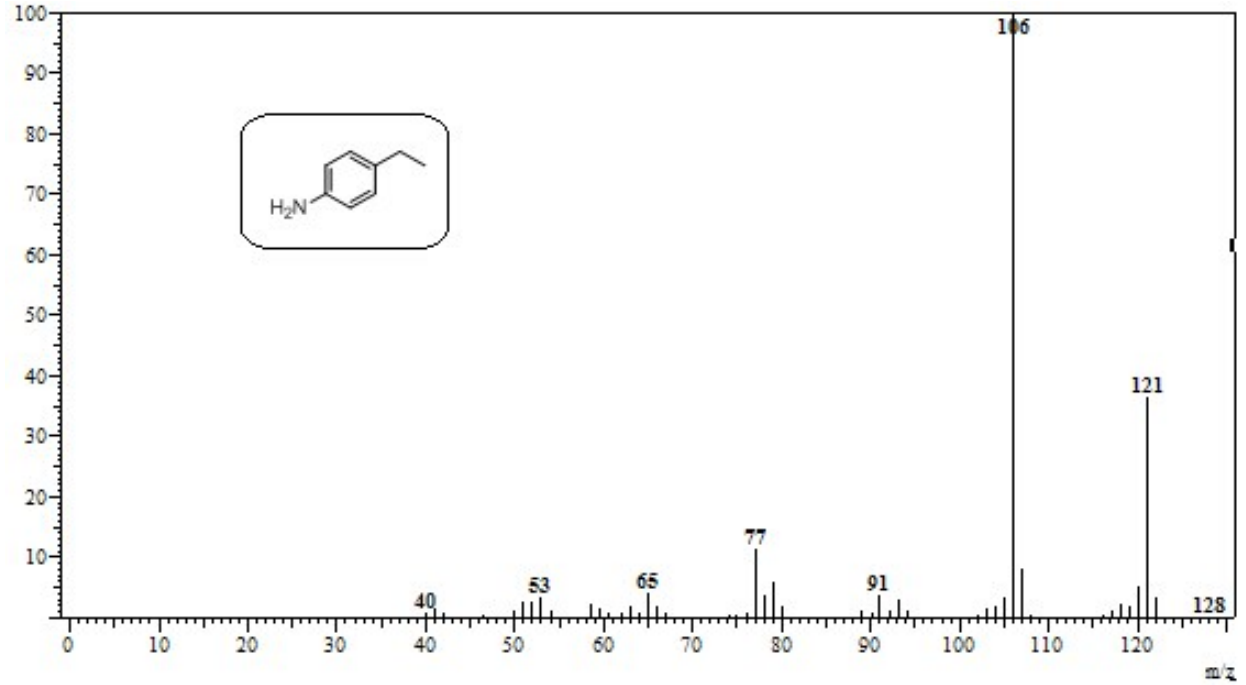
4) *N*-Hexane



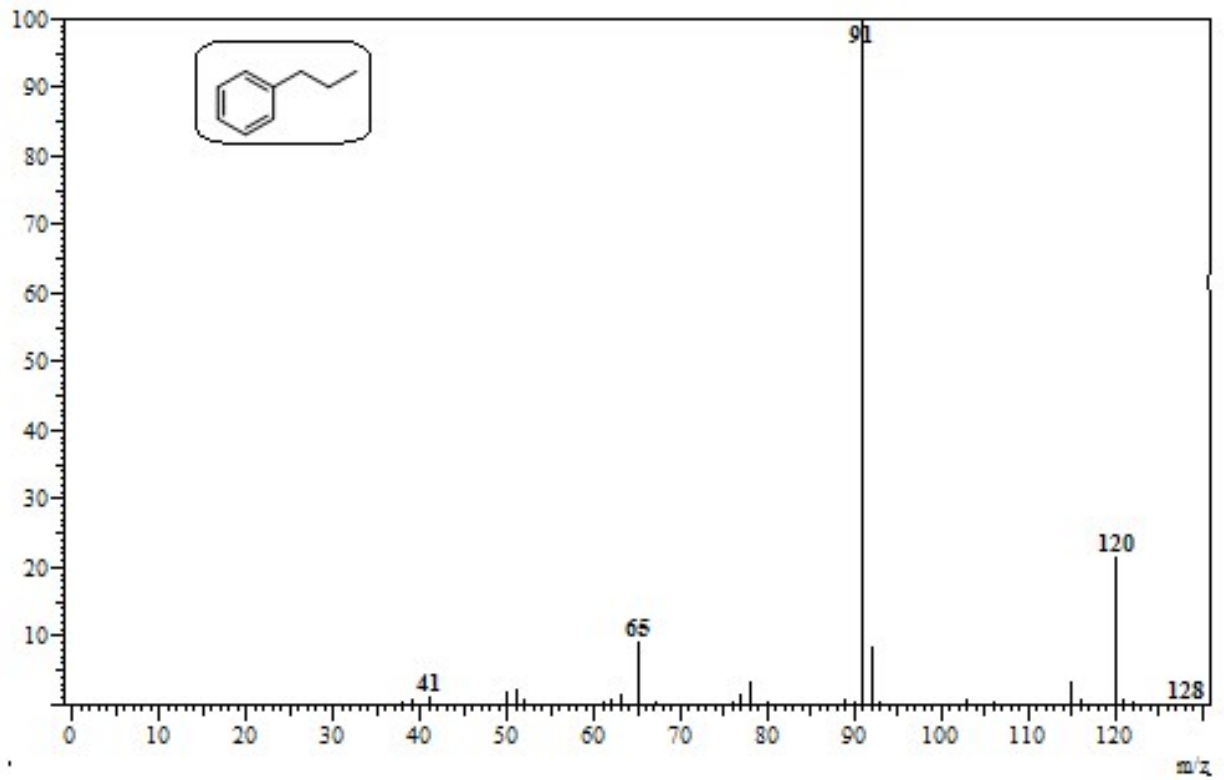
5) 4-Ethyltoulène



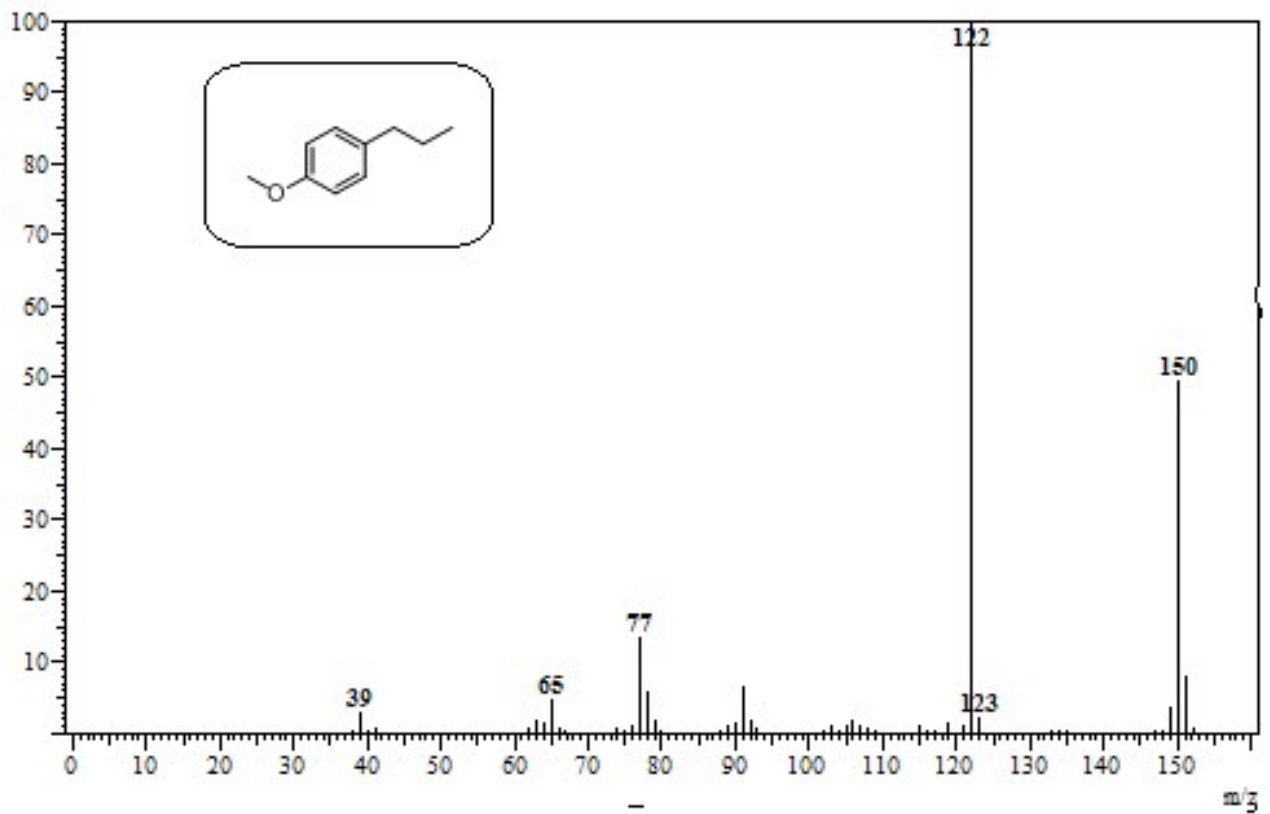
6) 4-éthylaniline



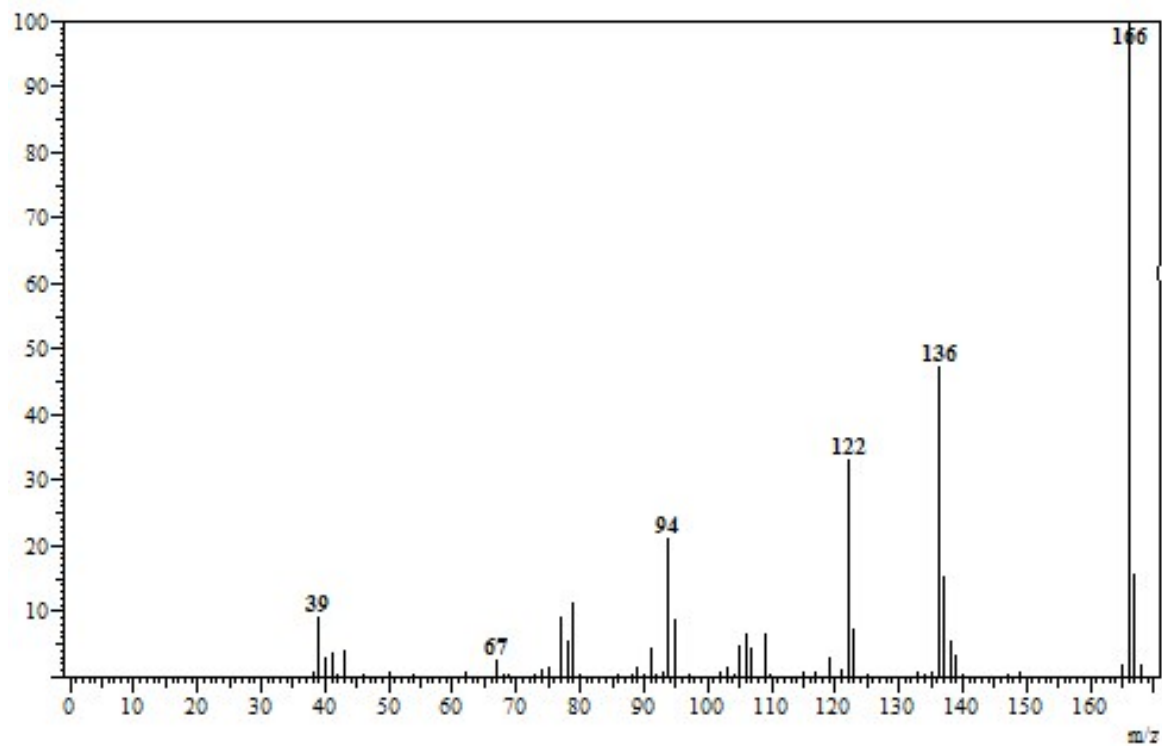
7) Propylbenzene



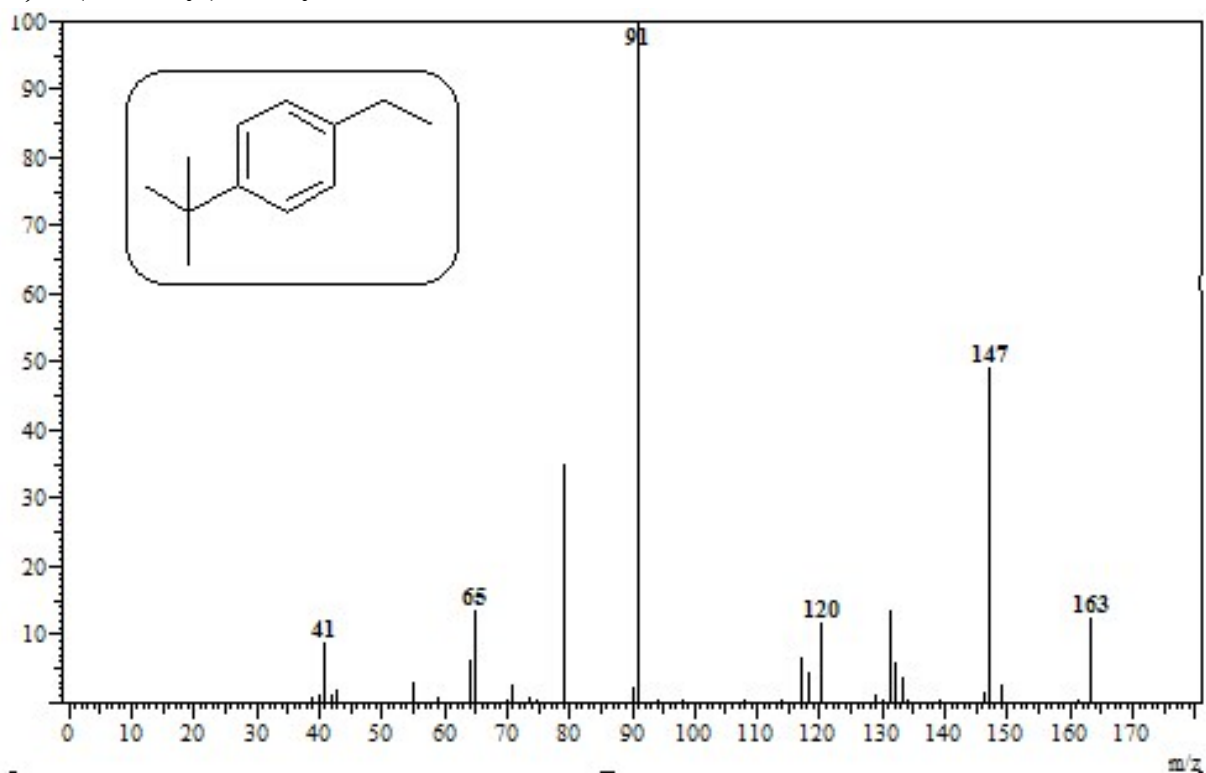
8) 4-Propylanisole



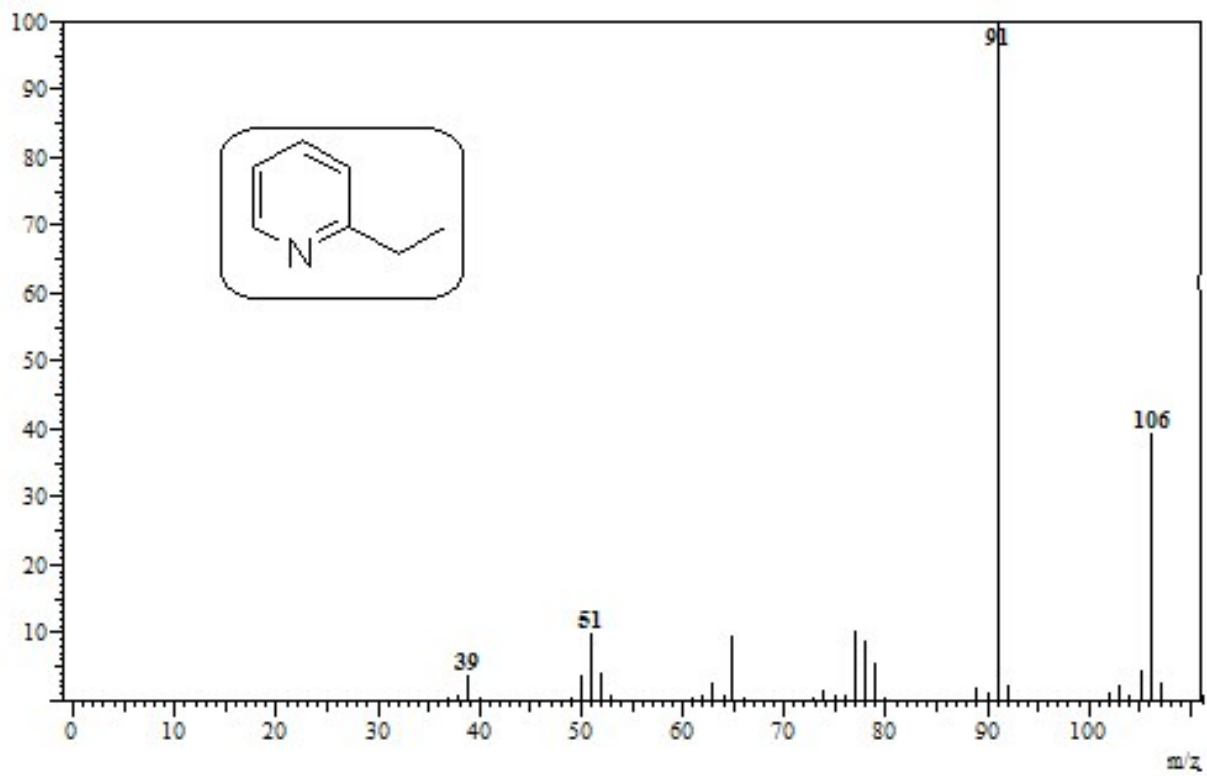
9) 2-Methoxy-4-propylphenol



10) 1-(*tert*-butyl)-4-ethylbenzene

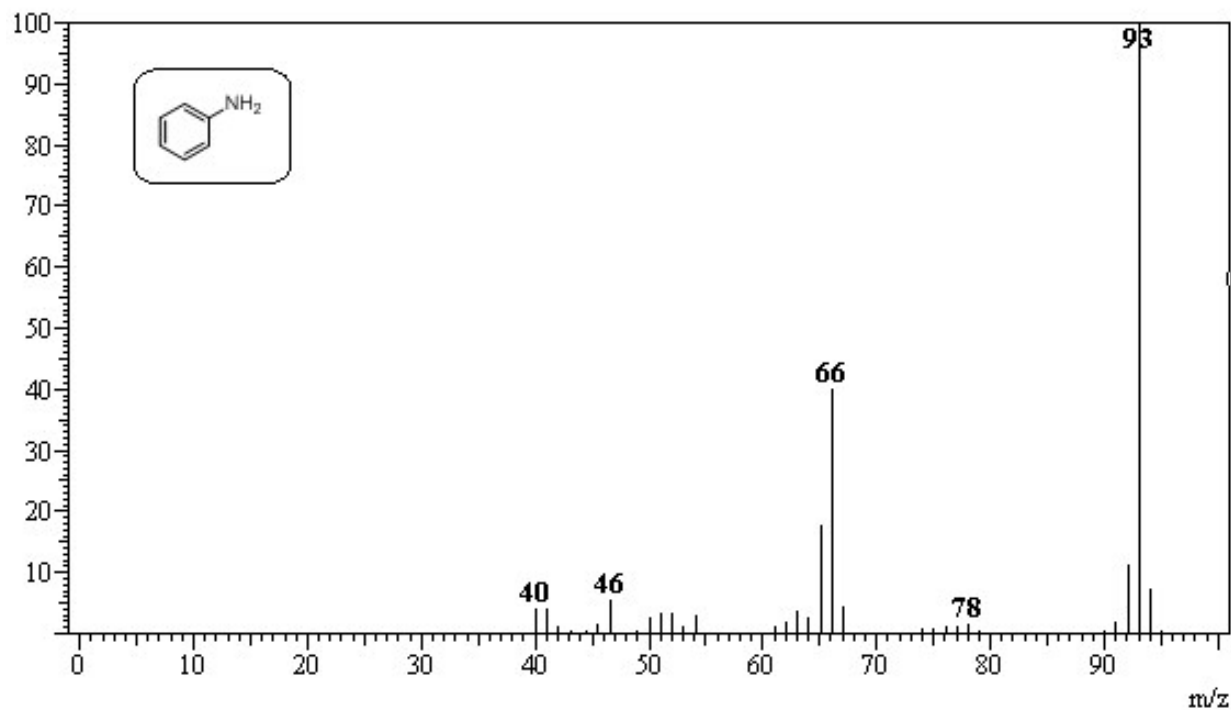


11) 2-ethylpyridine

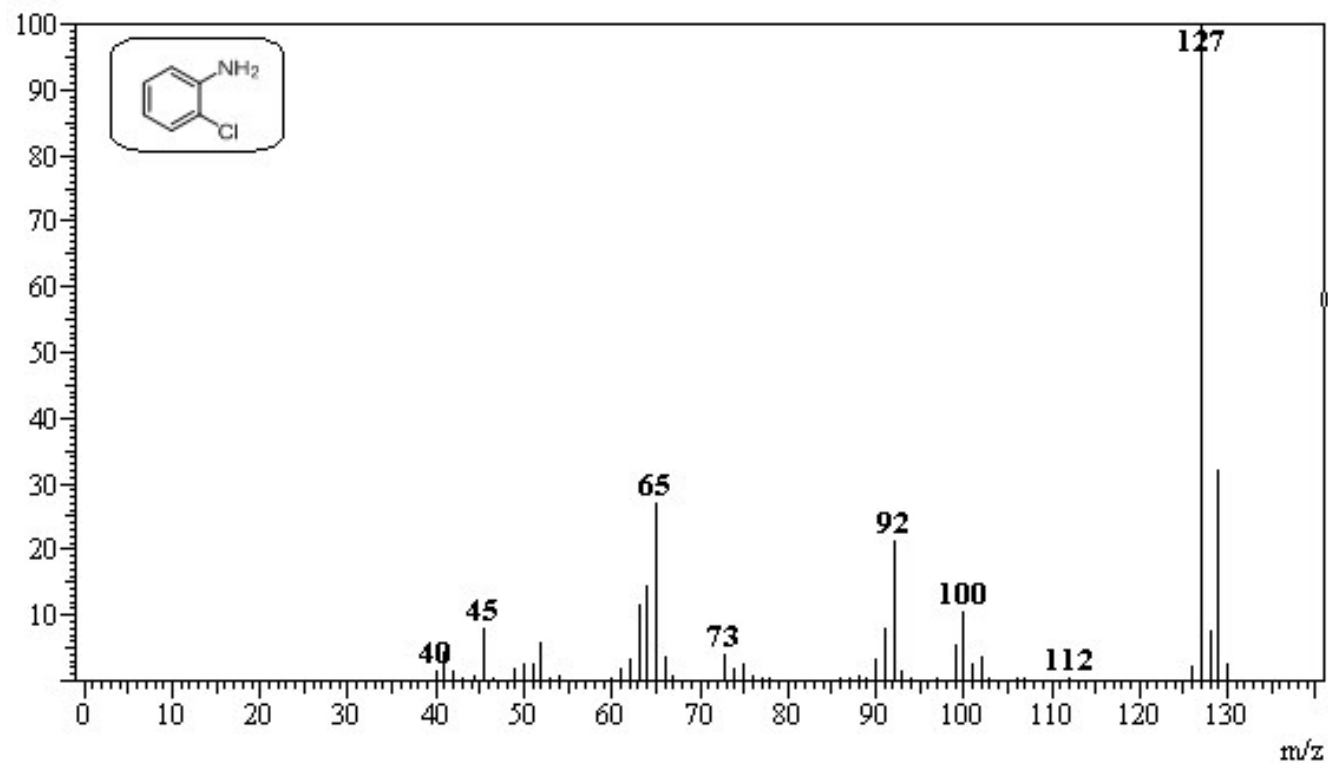


2. GCMS of Amines.

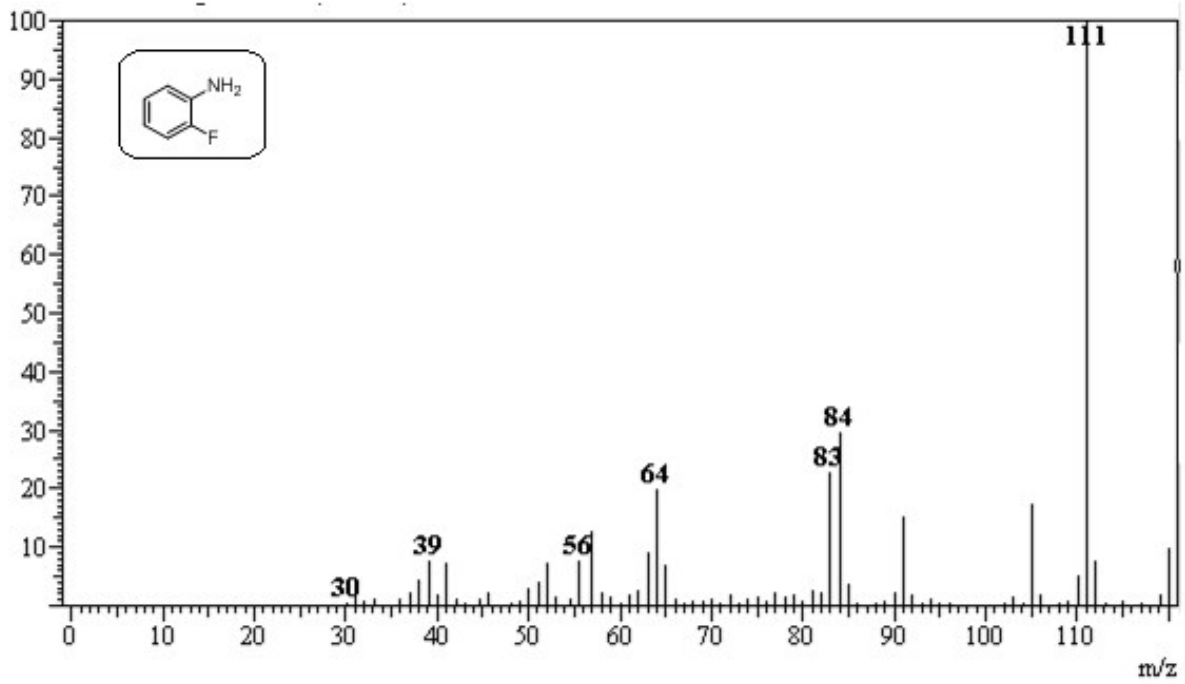
1) Aniline



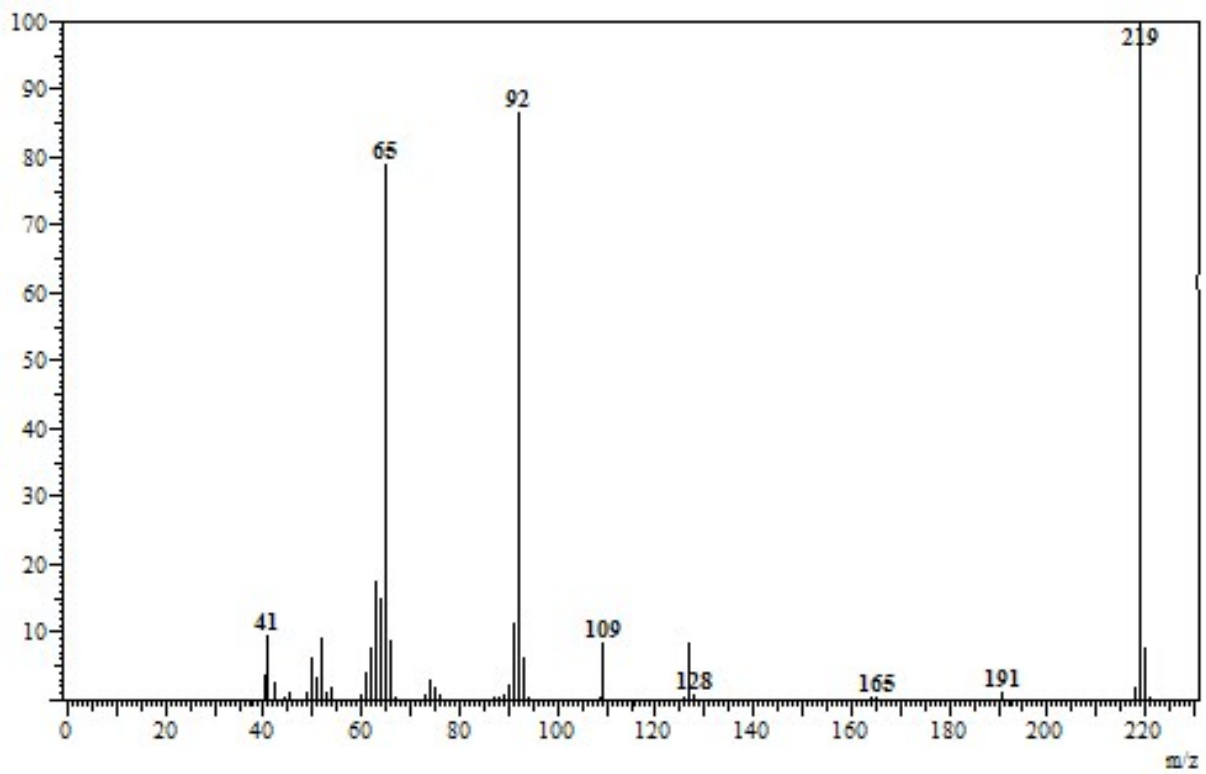
2) 2-Chloroaniline



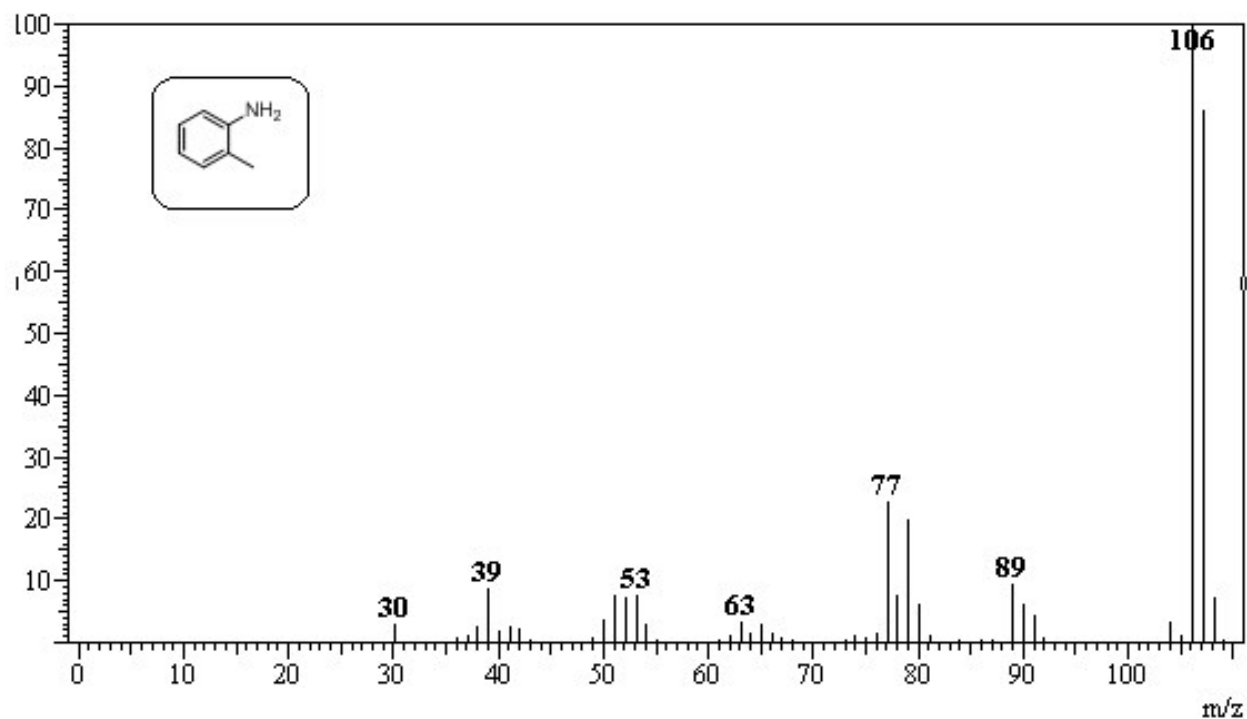
3) 2-Fluoroaniline



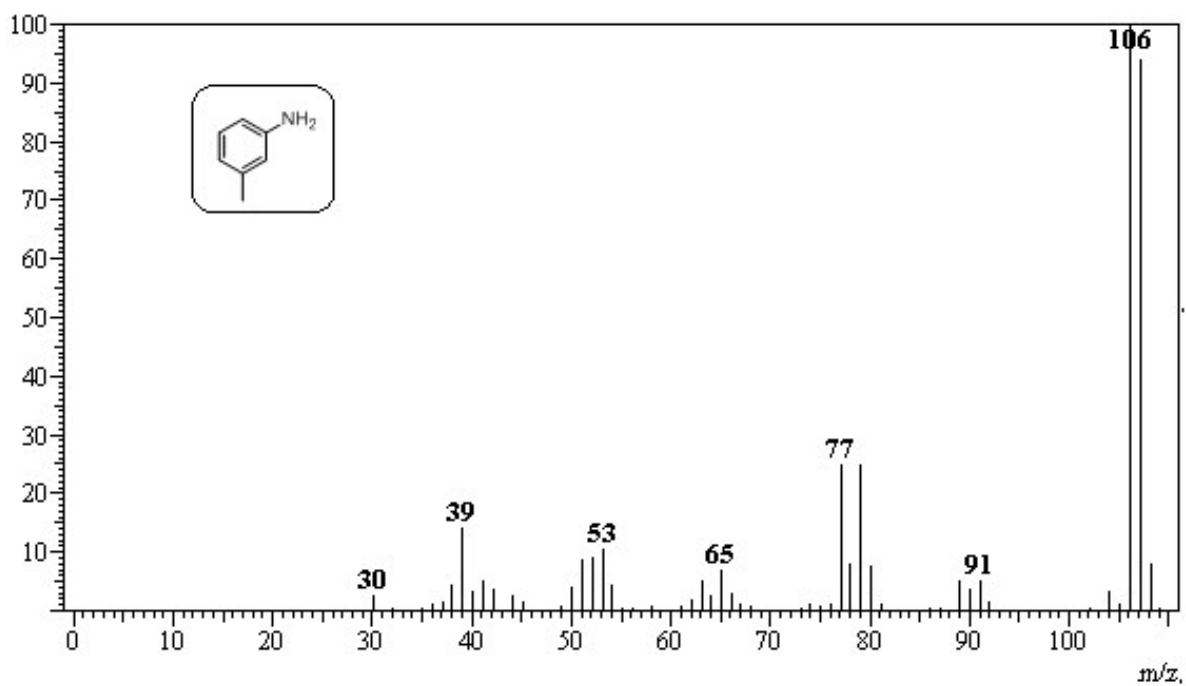
4) 4-Iodoaniline



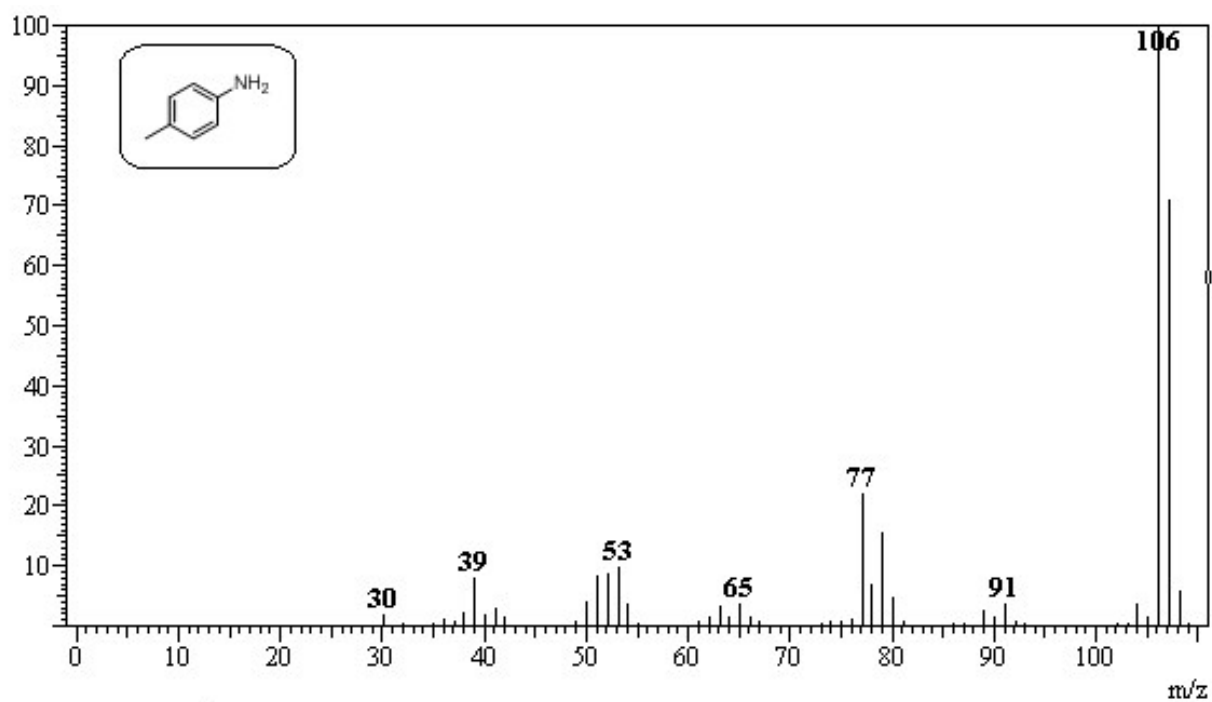
5) *o*-Toluidine



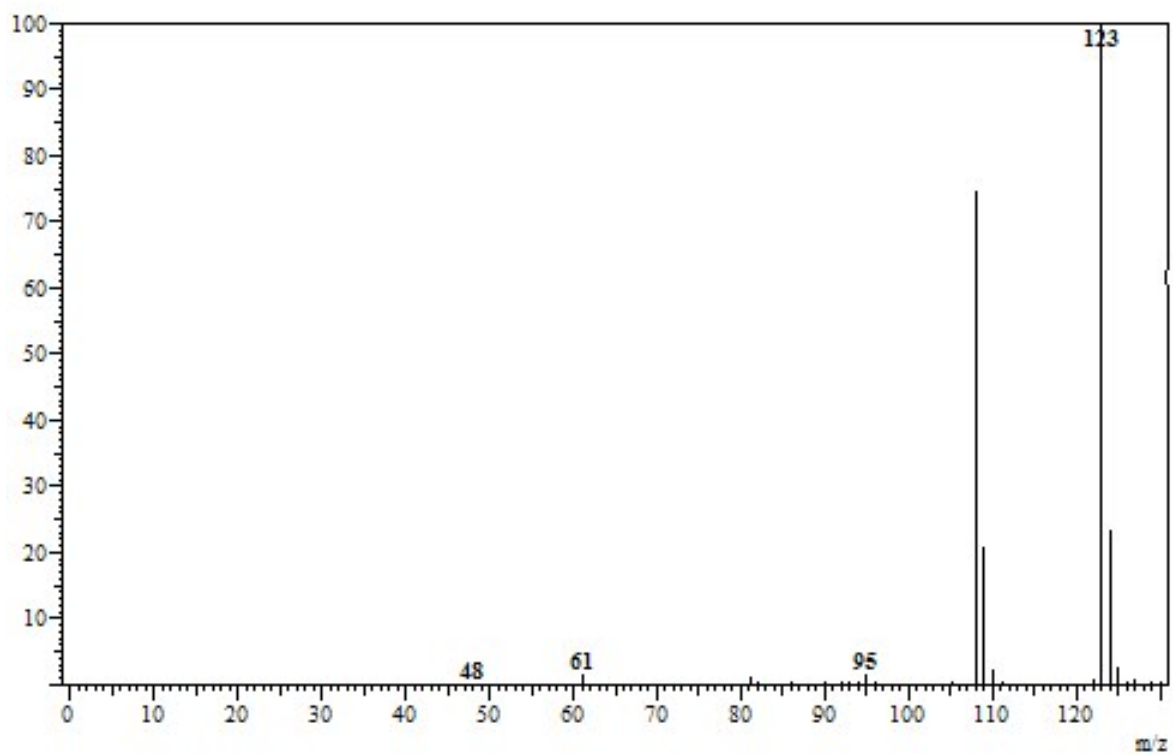
6) *m*-Toluidine



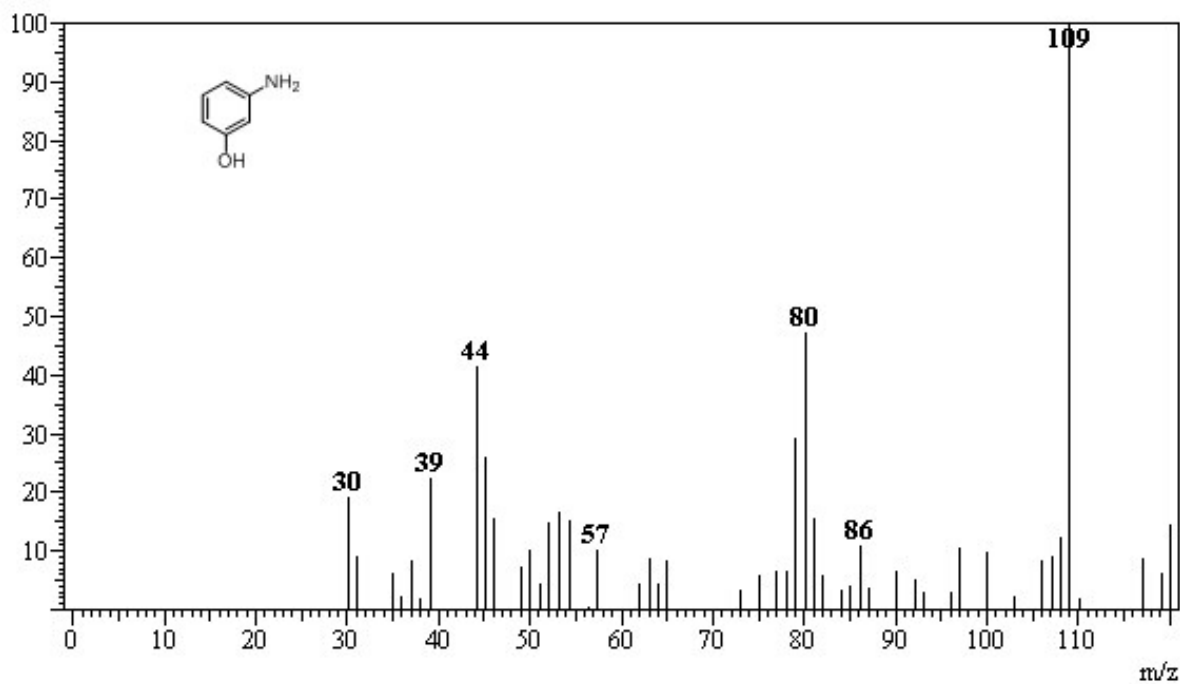
7) *p*-Toluidine



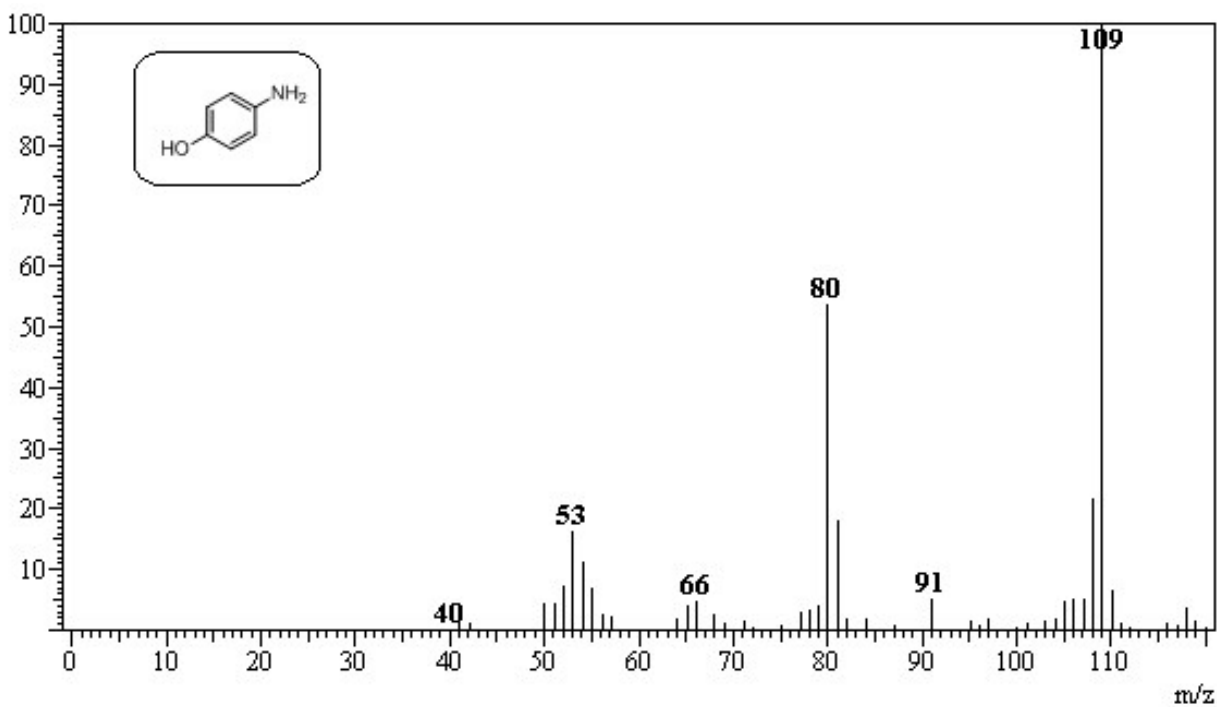
8) *p*-Anisidine



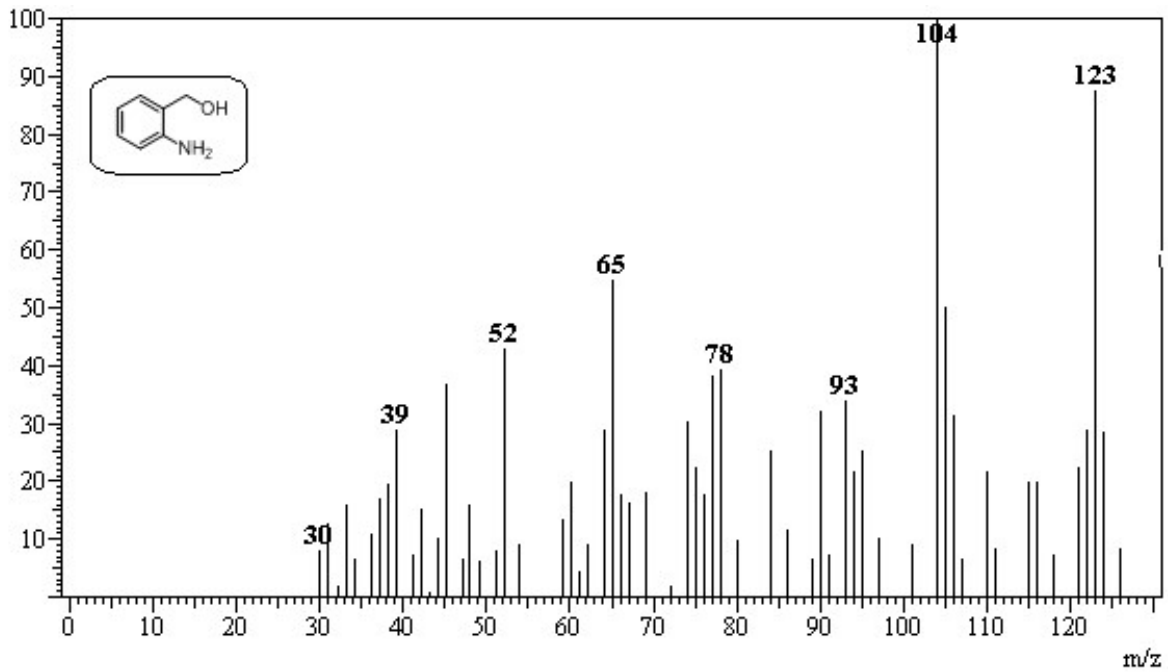
9) *m*-Aminophenol



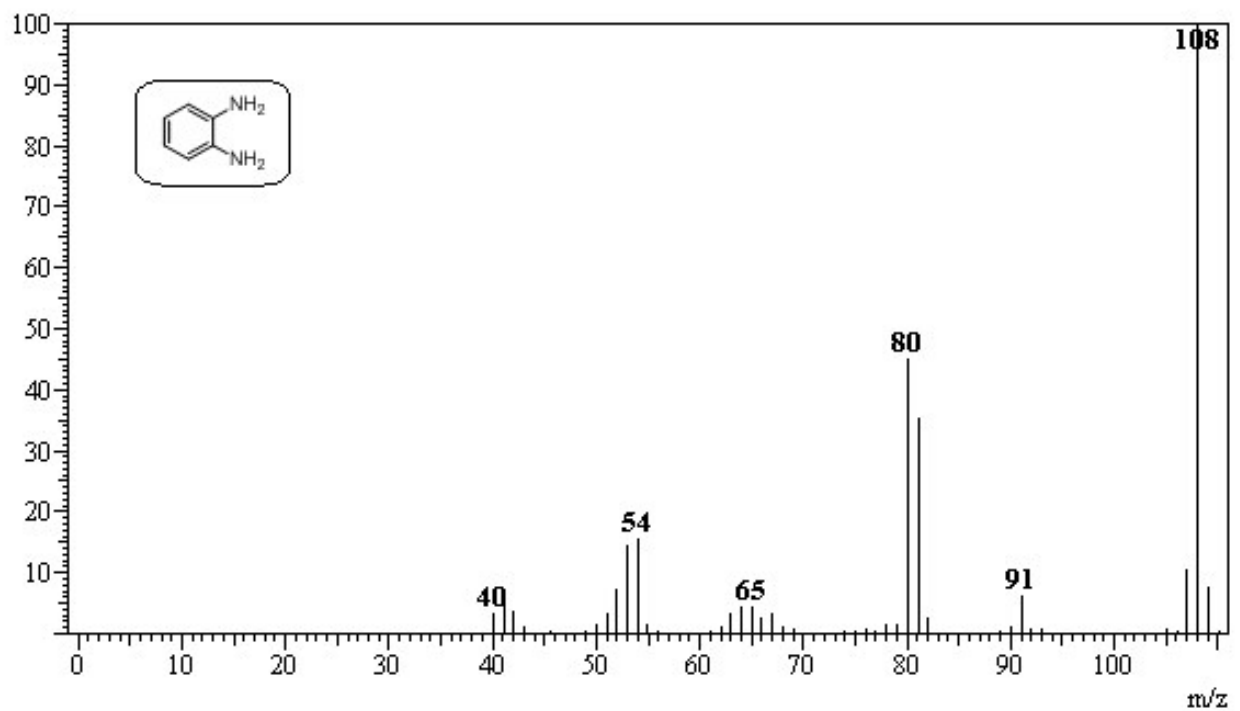
10) *p*-Aminophenol



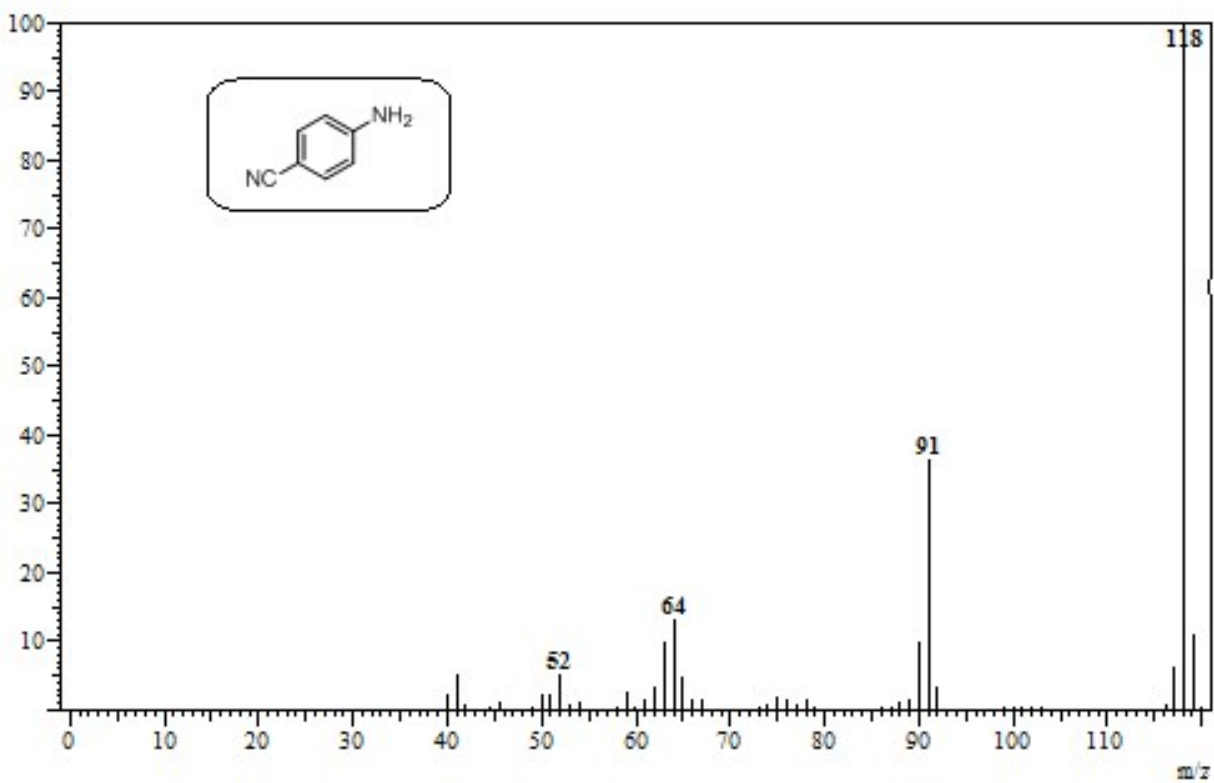
11) 2-Aminobenzylalcohol



12) *o*-Phenylenediamine

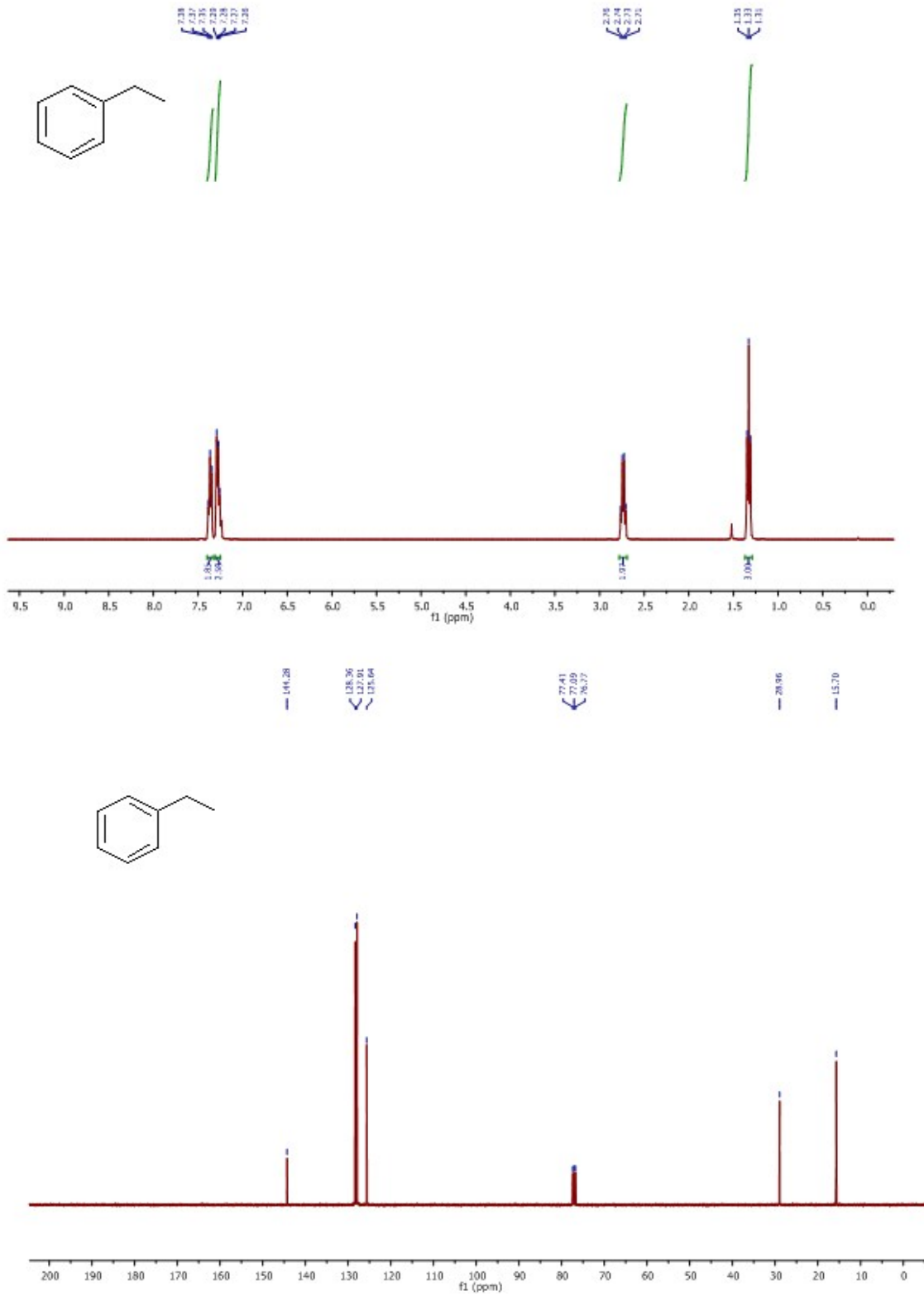


13) 4-Aminobenzonitrile

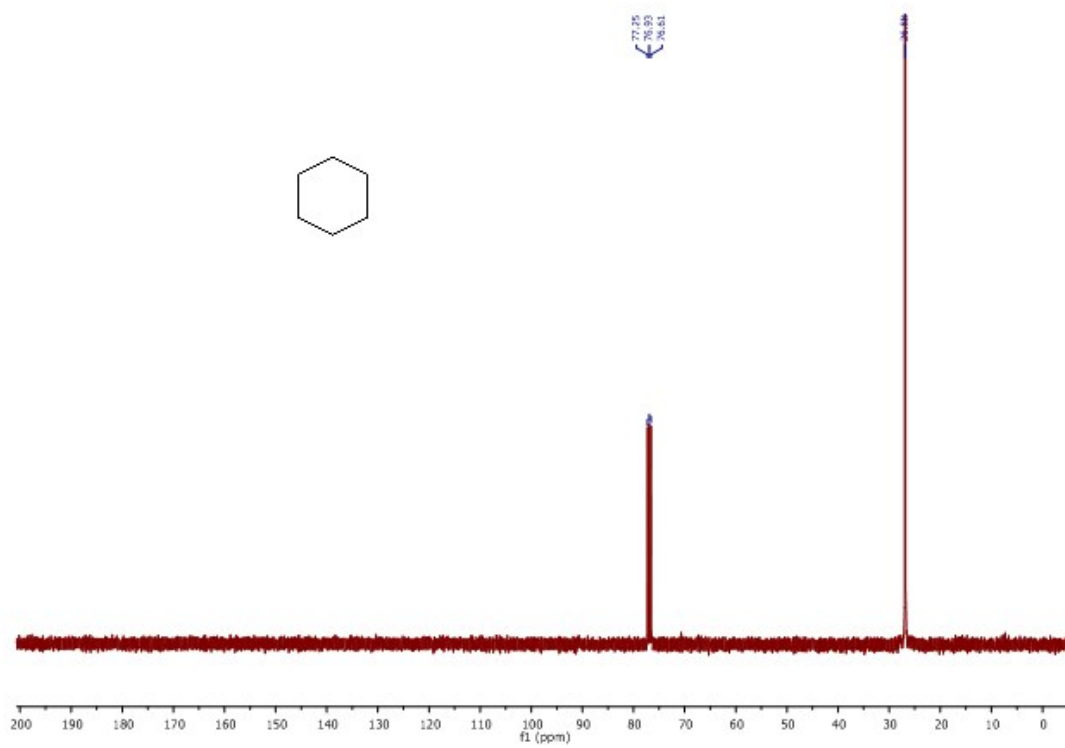
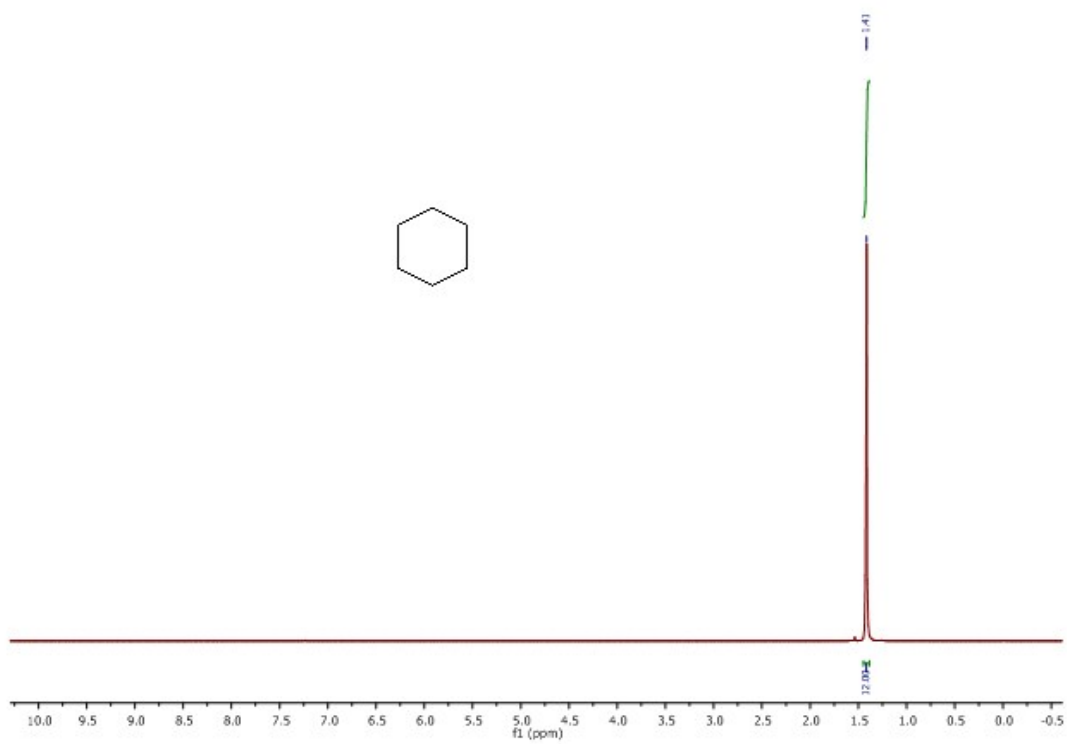


NMR Spectra of alkanes

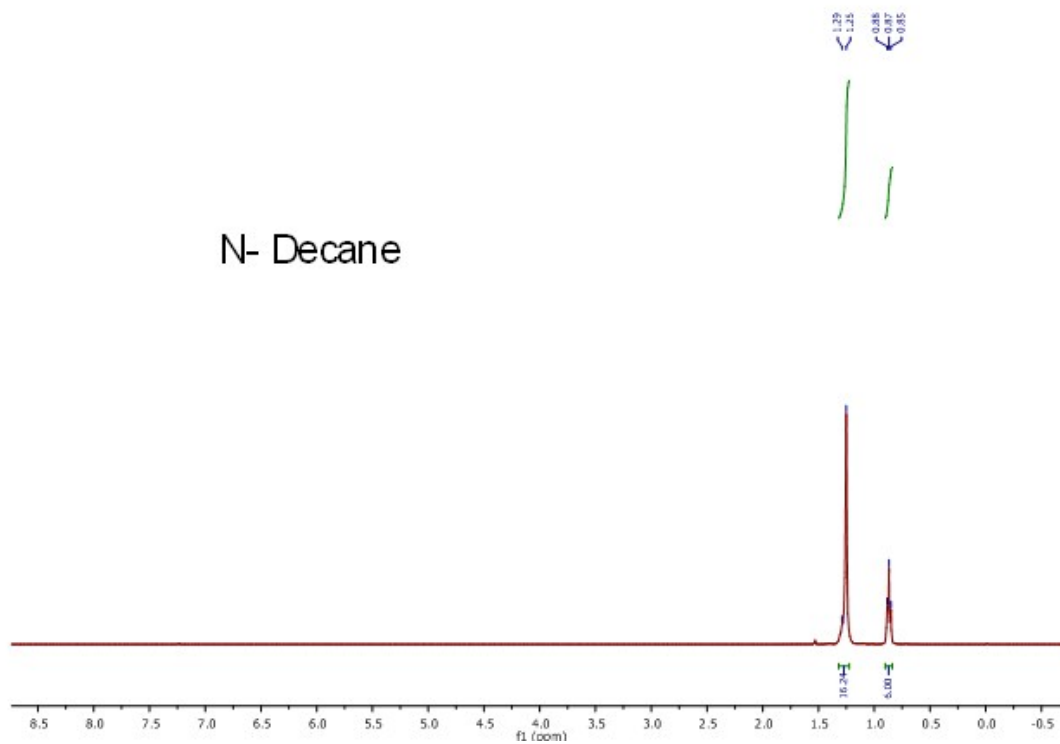
1) Ethyl benzene



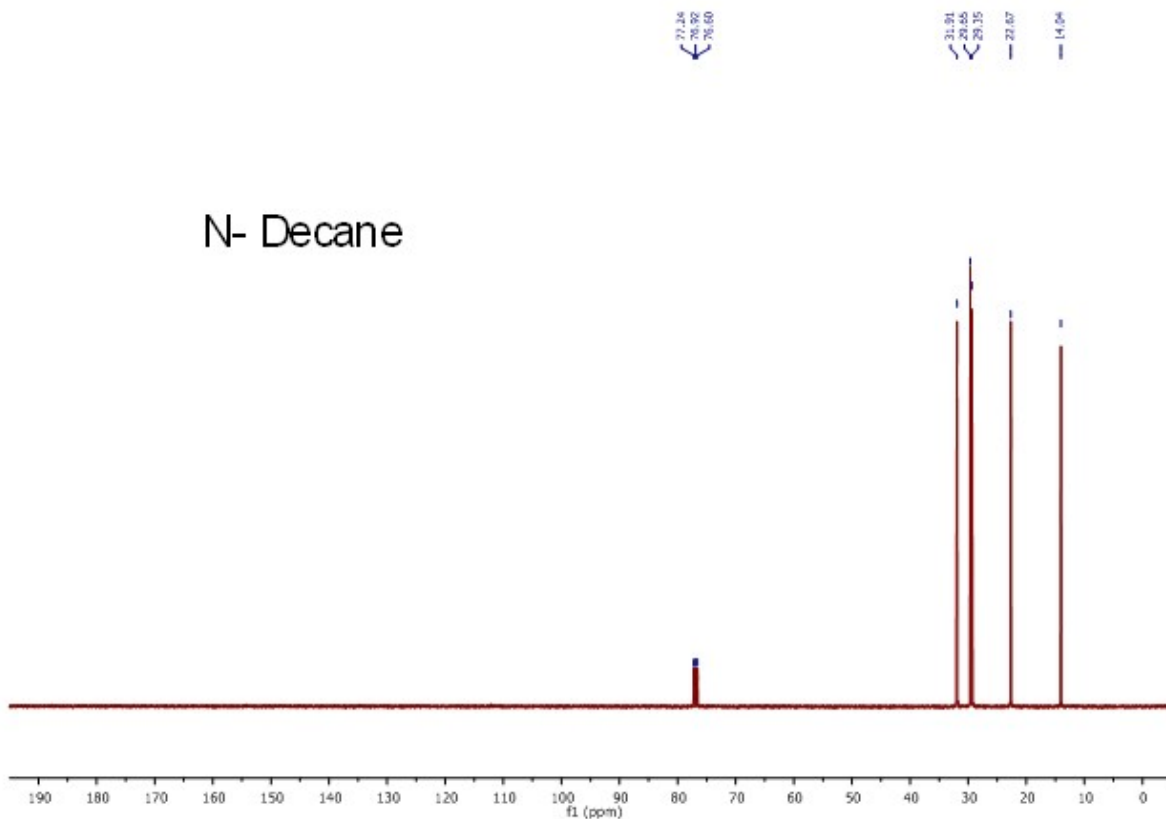
2) Cyclohexane



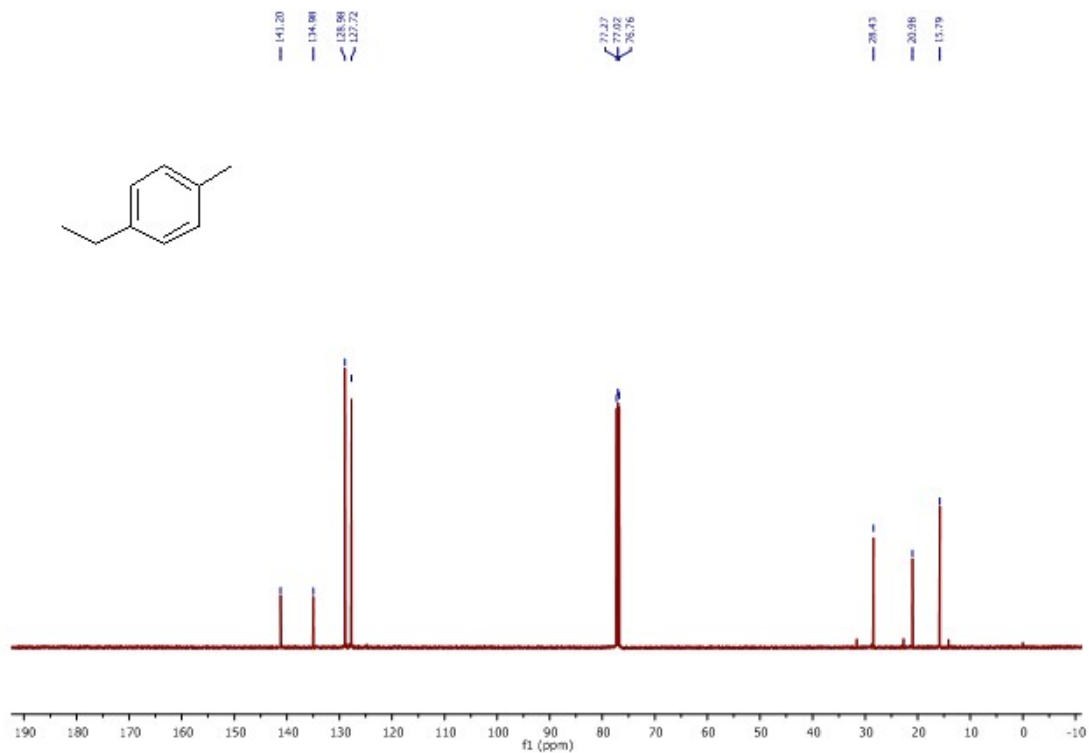
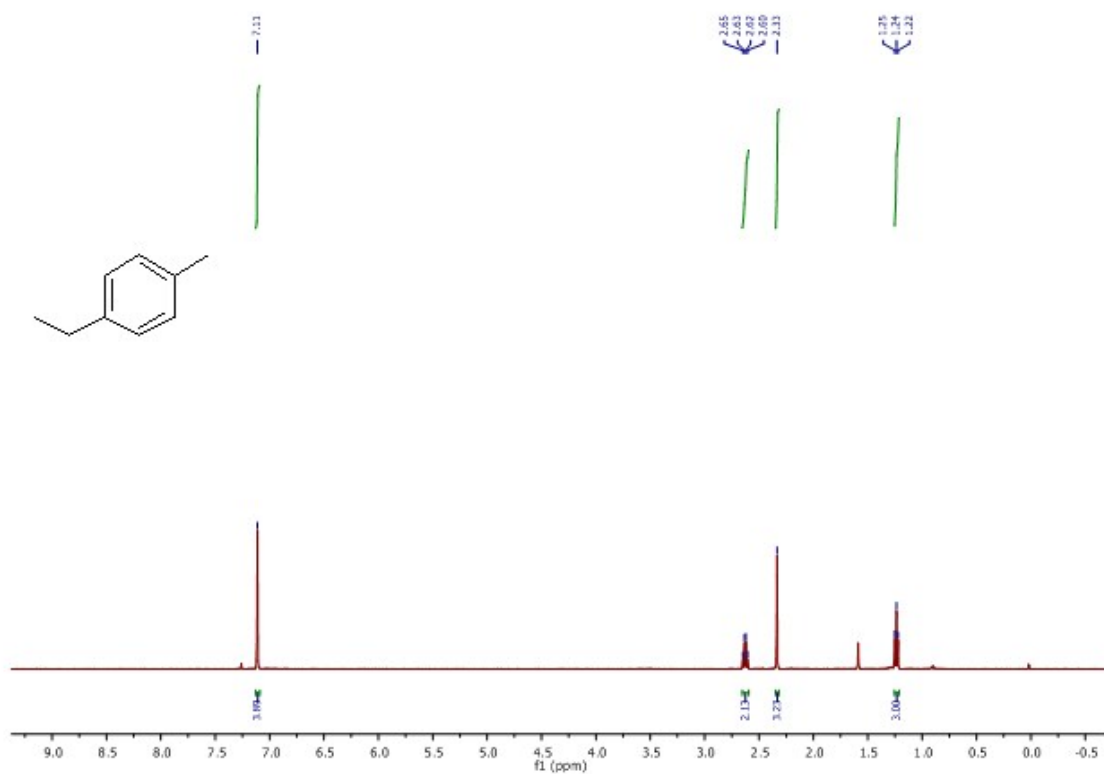
3) *N*-Decane



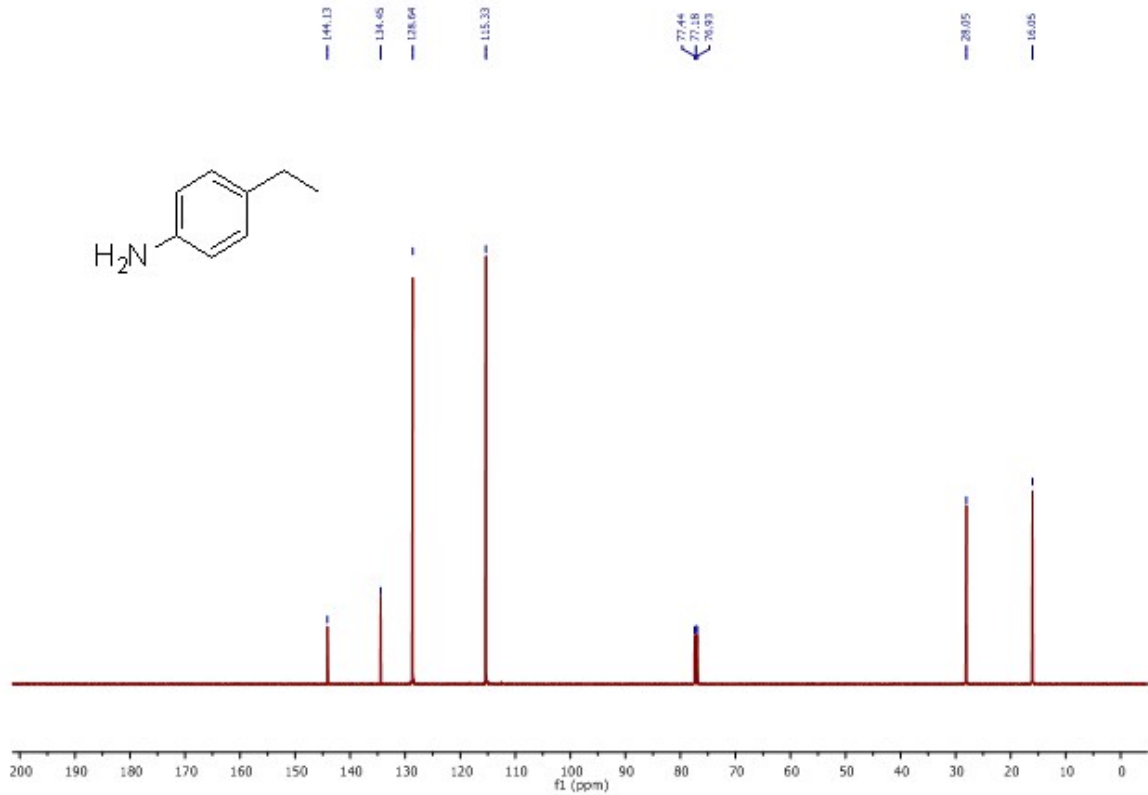
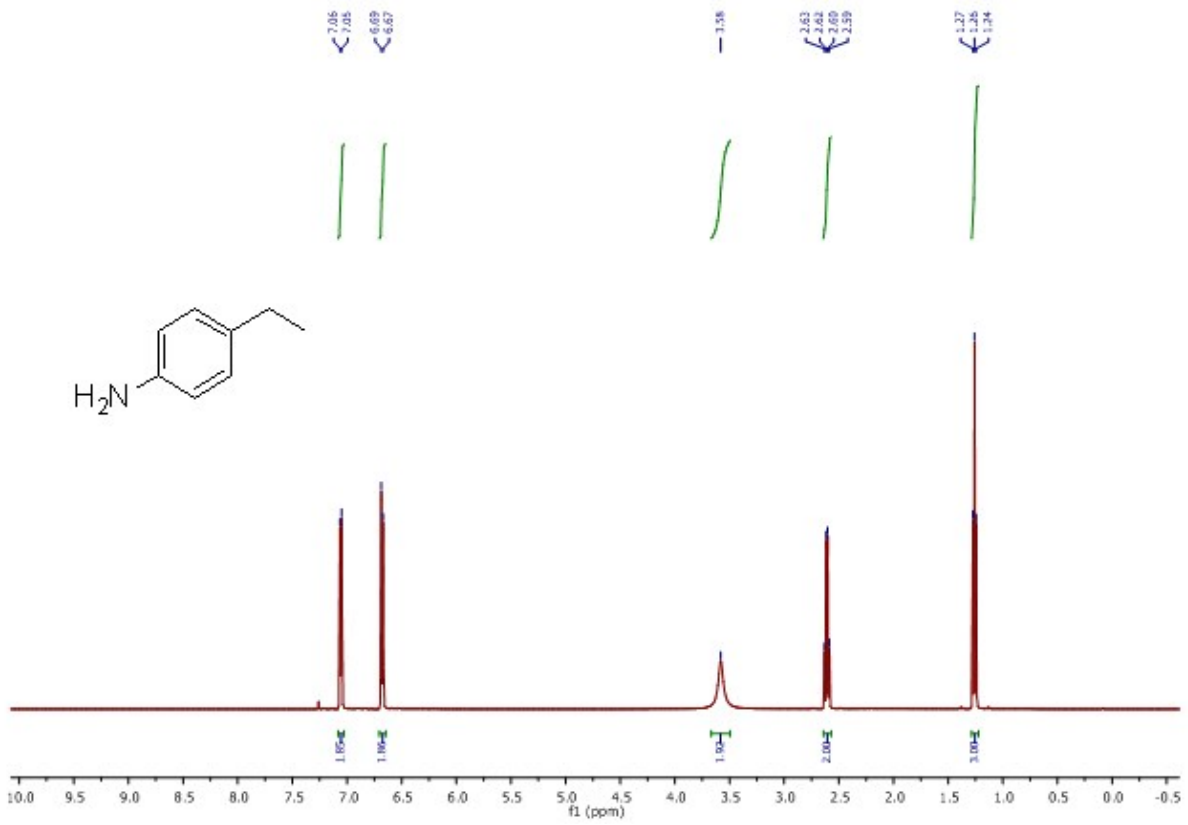
N- Decane



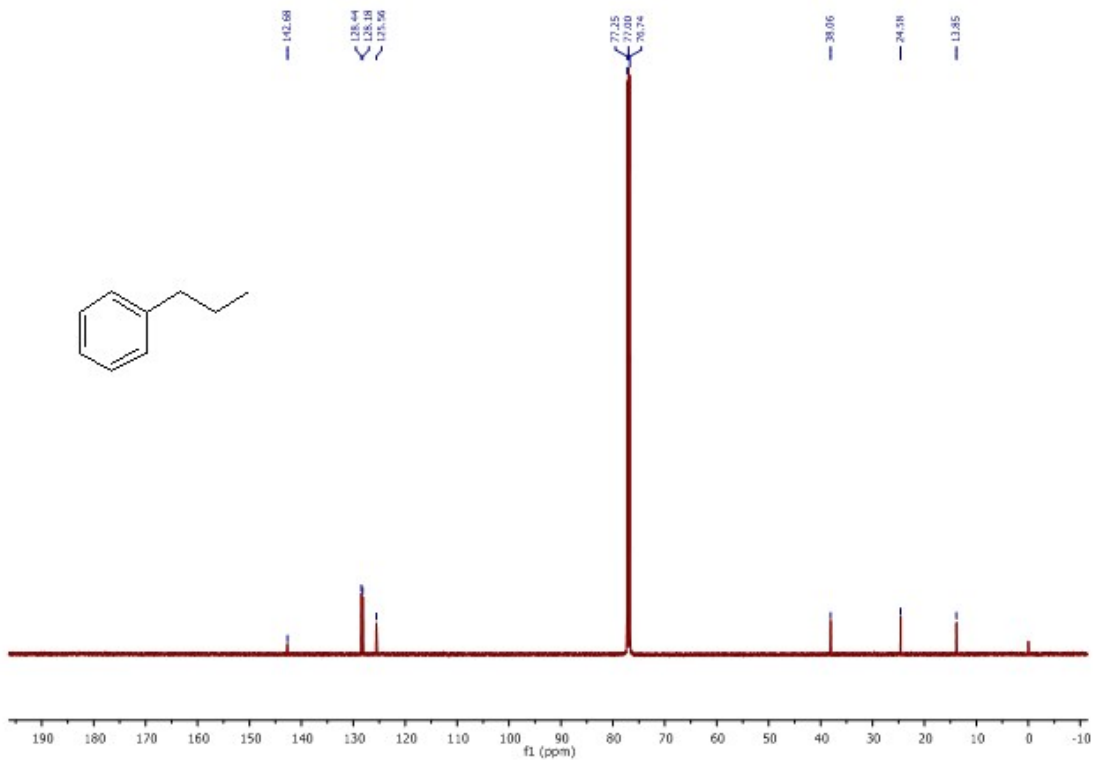
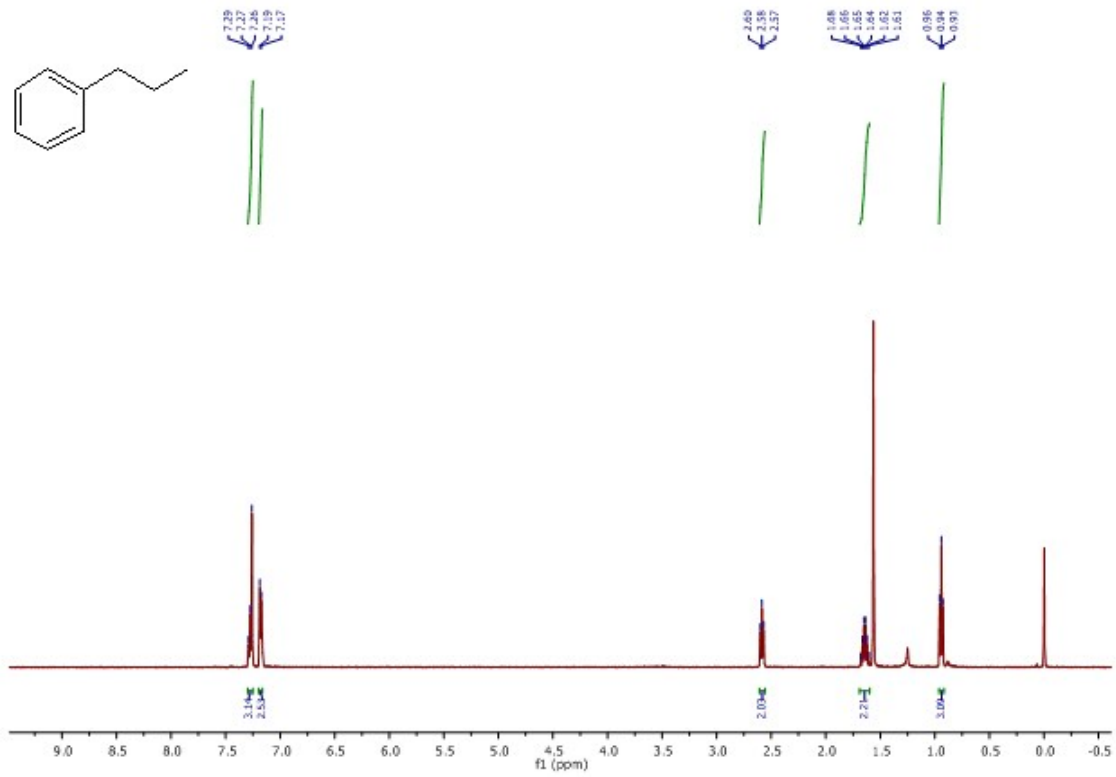
4)4-Ethyltoulène



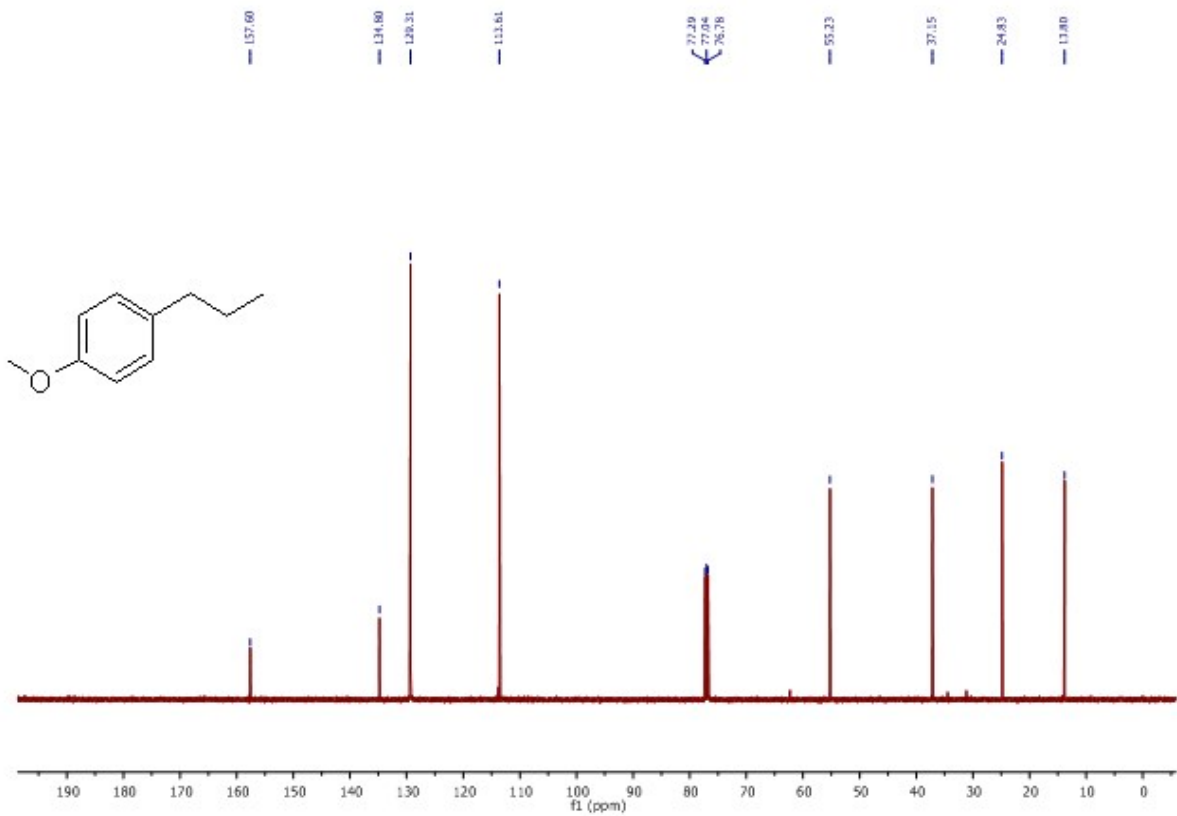
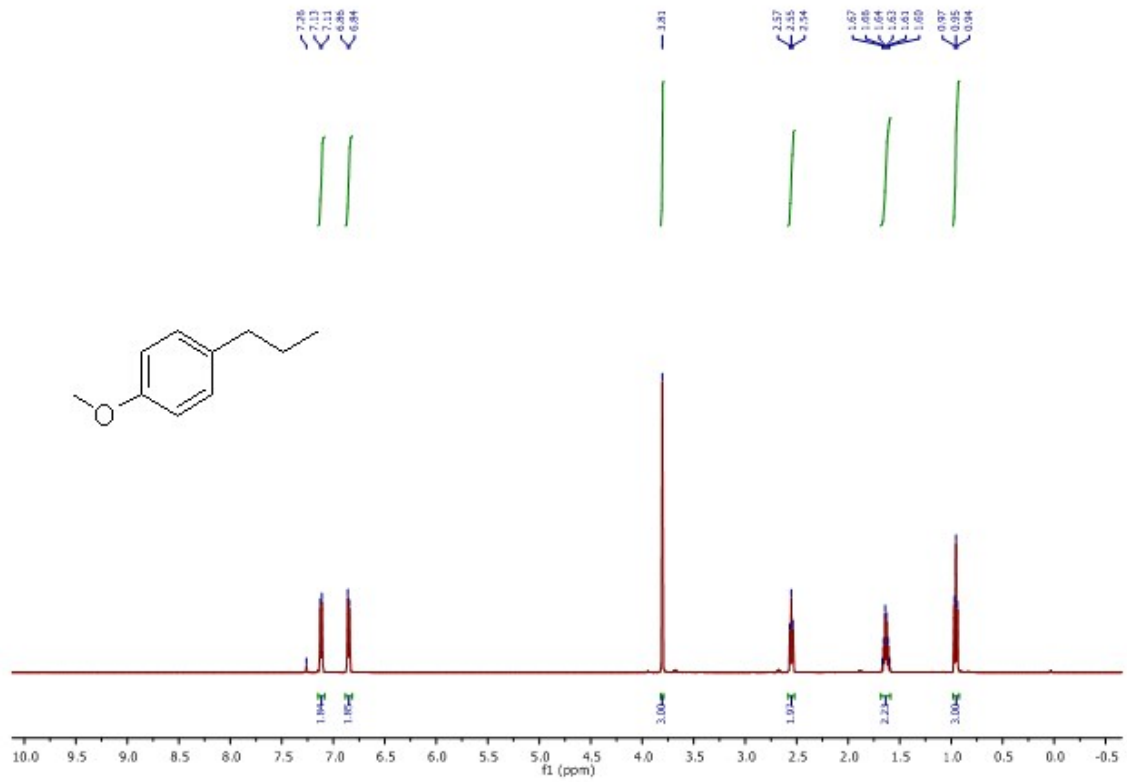
5)4-ethylaniline



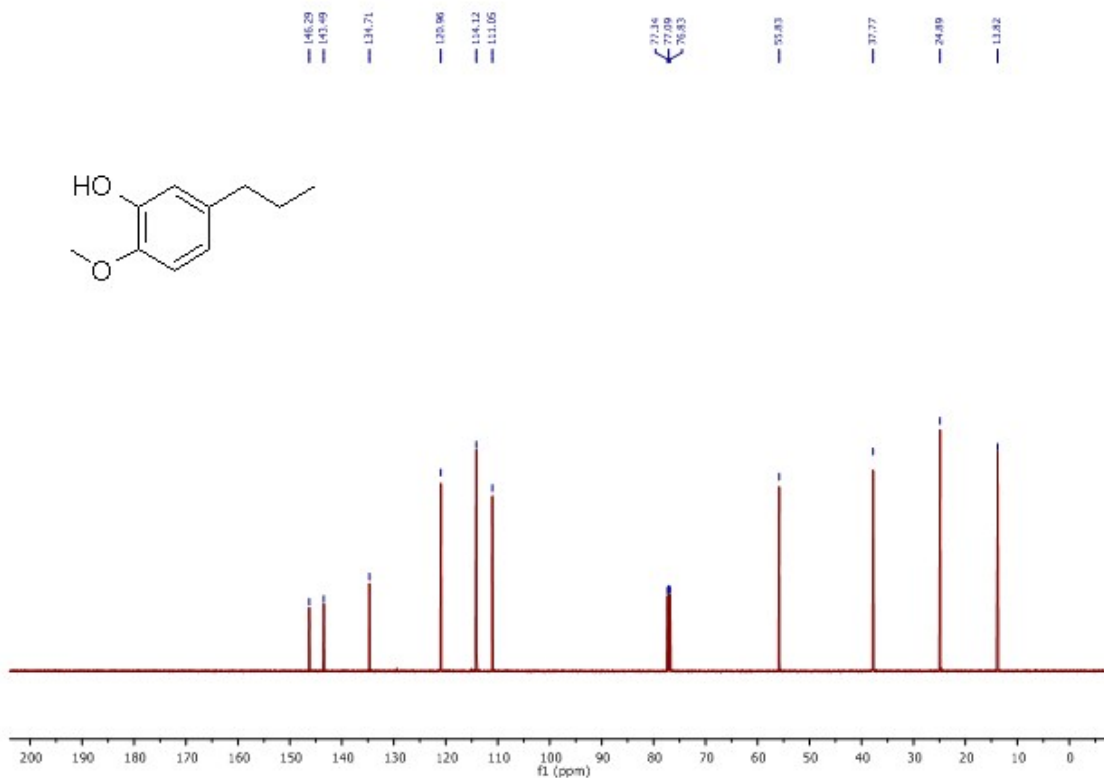
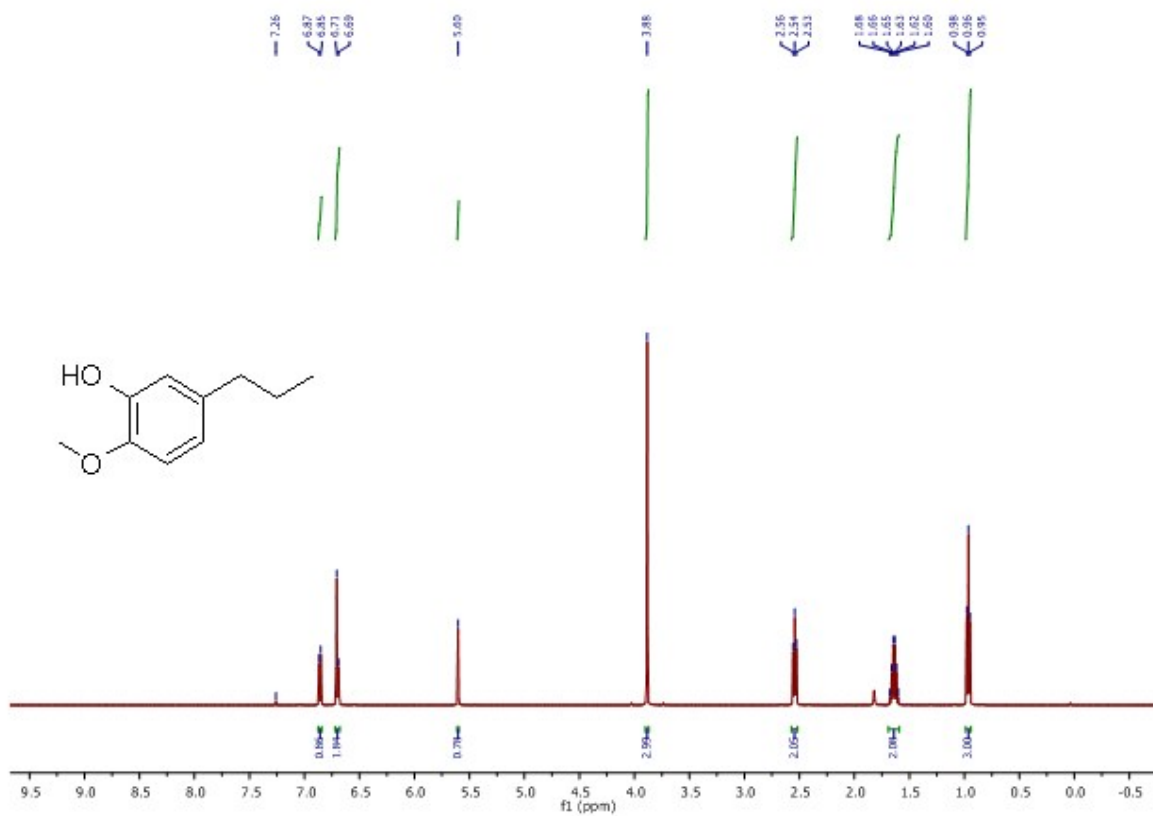
6) Propylbenzene



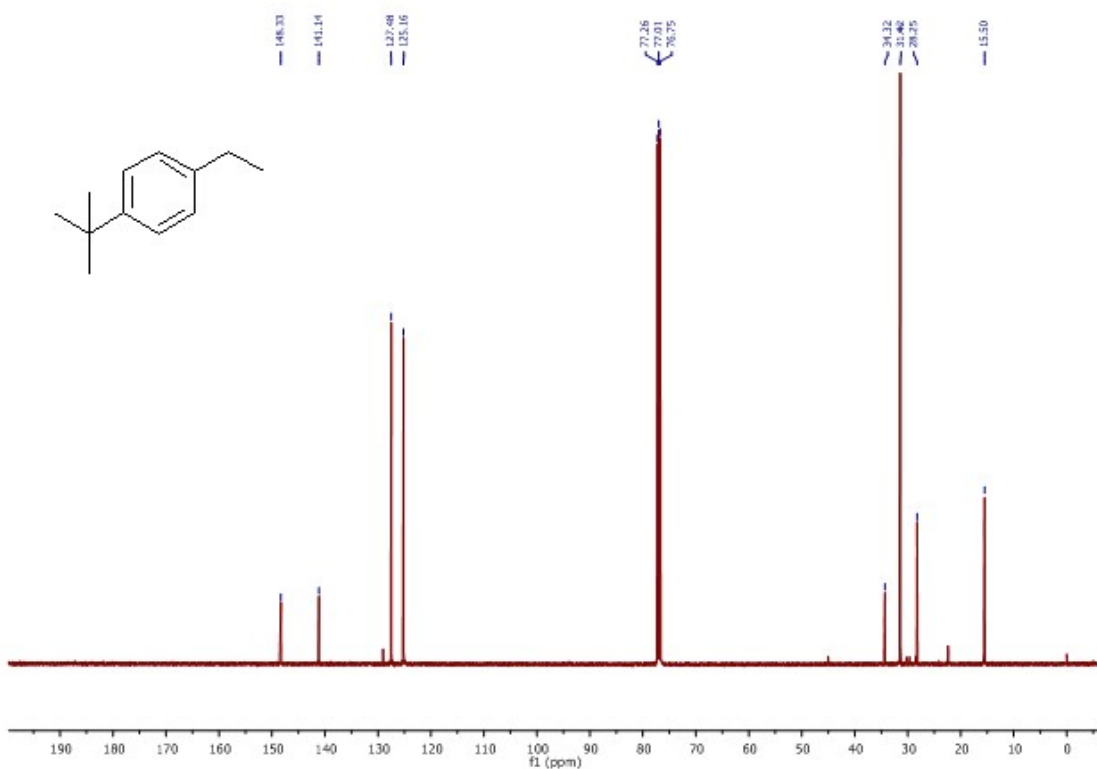
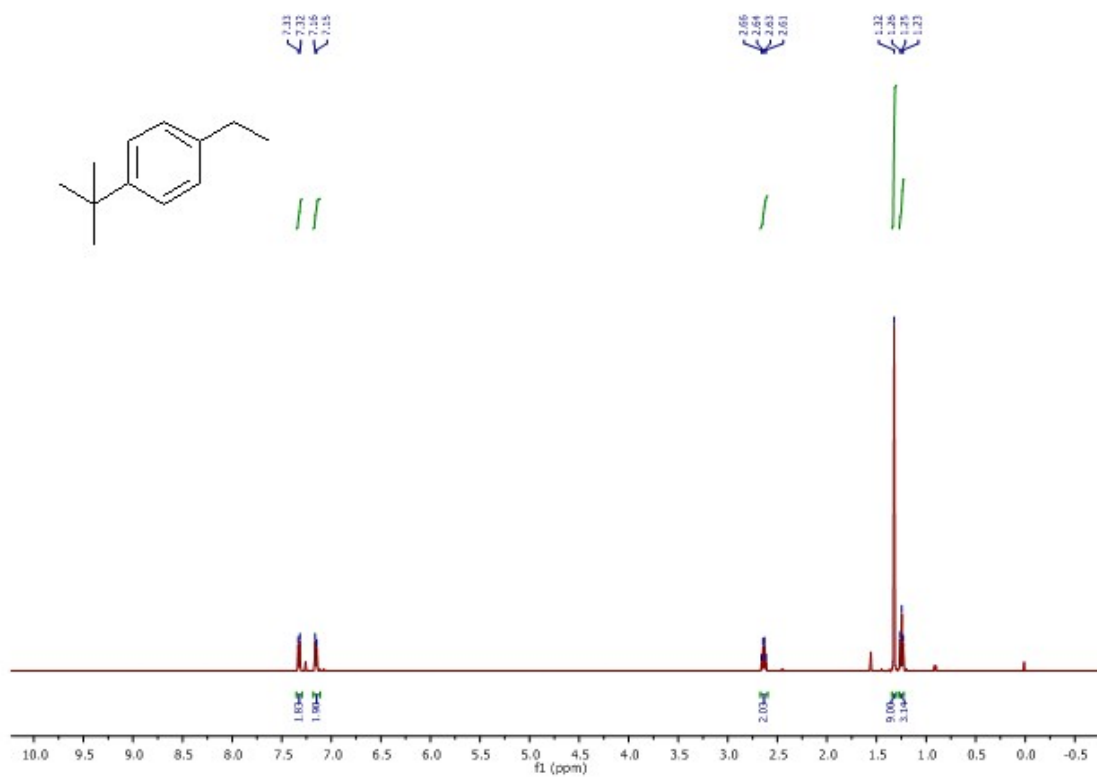
7) 4-Propylanisole



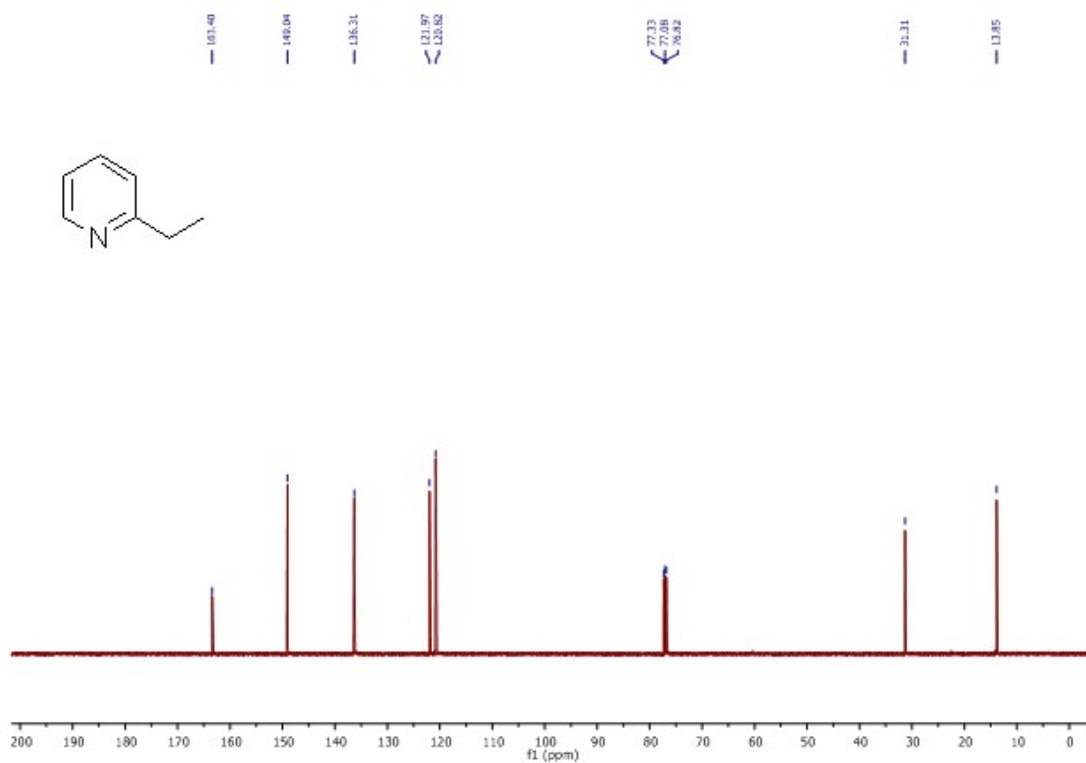
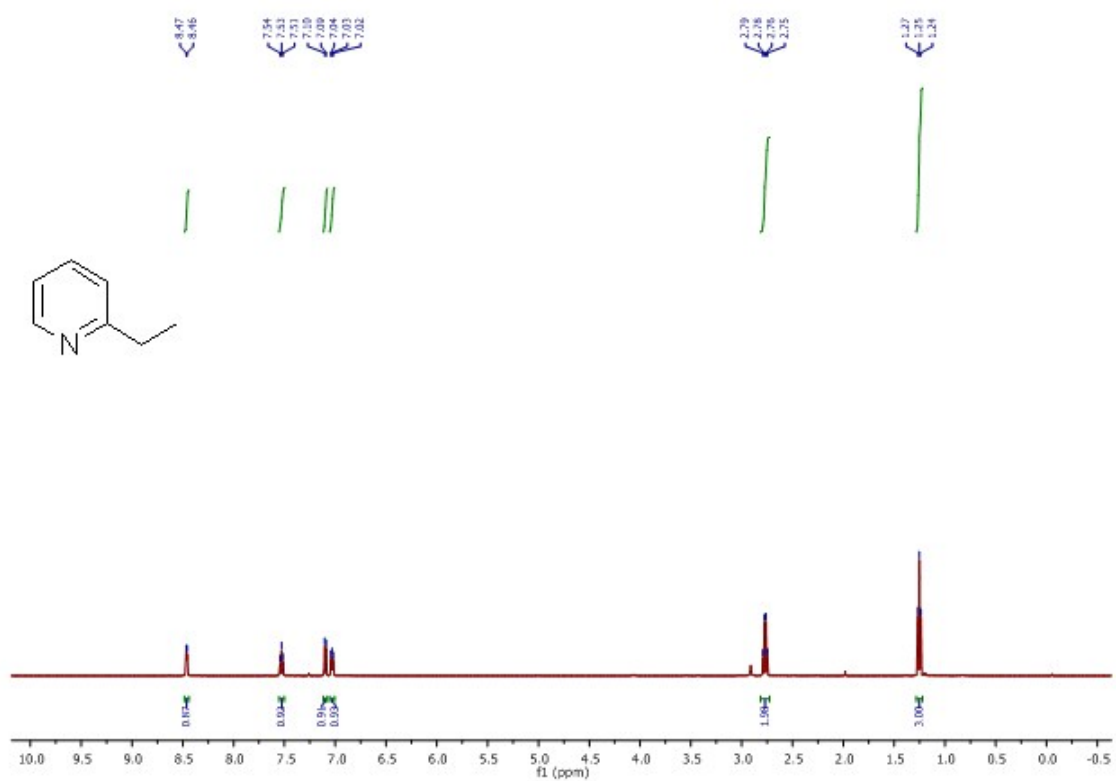
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9) 1-(*tert*-butyl)-4-ethylbenzene

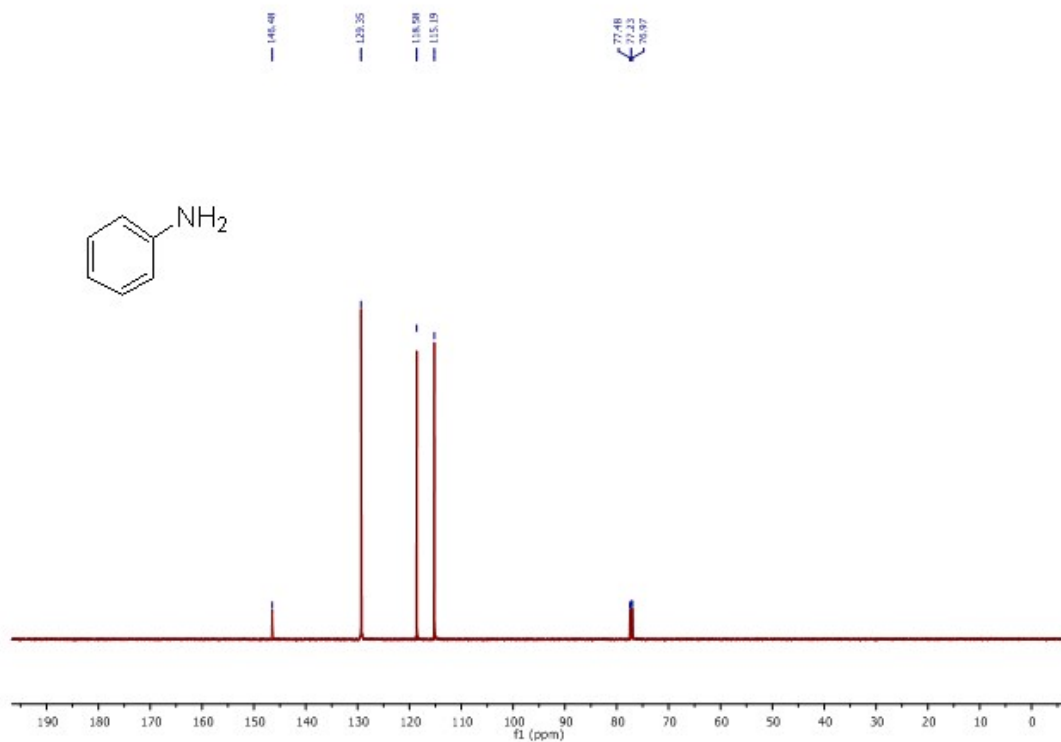
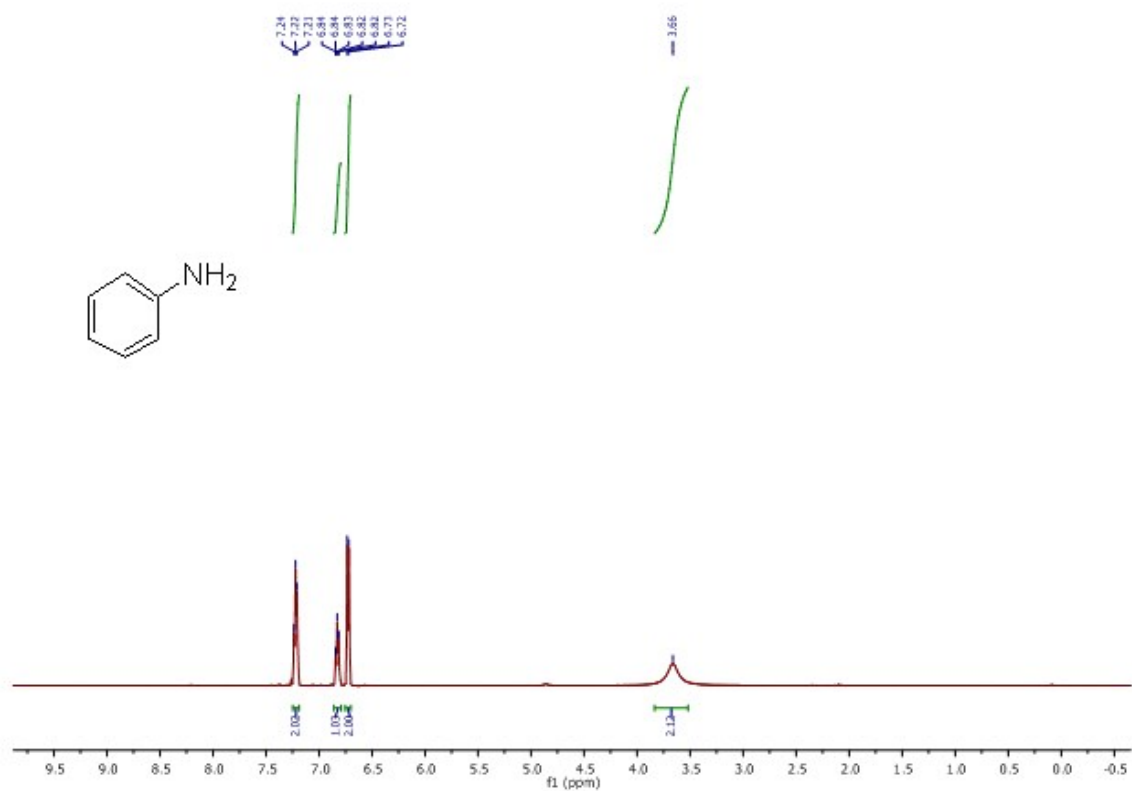


10) 2-ethylpyridine

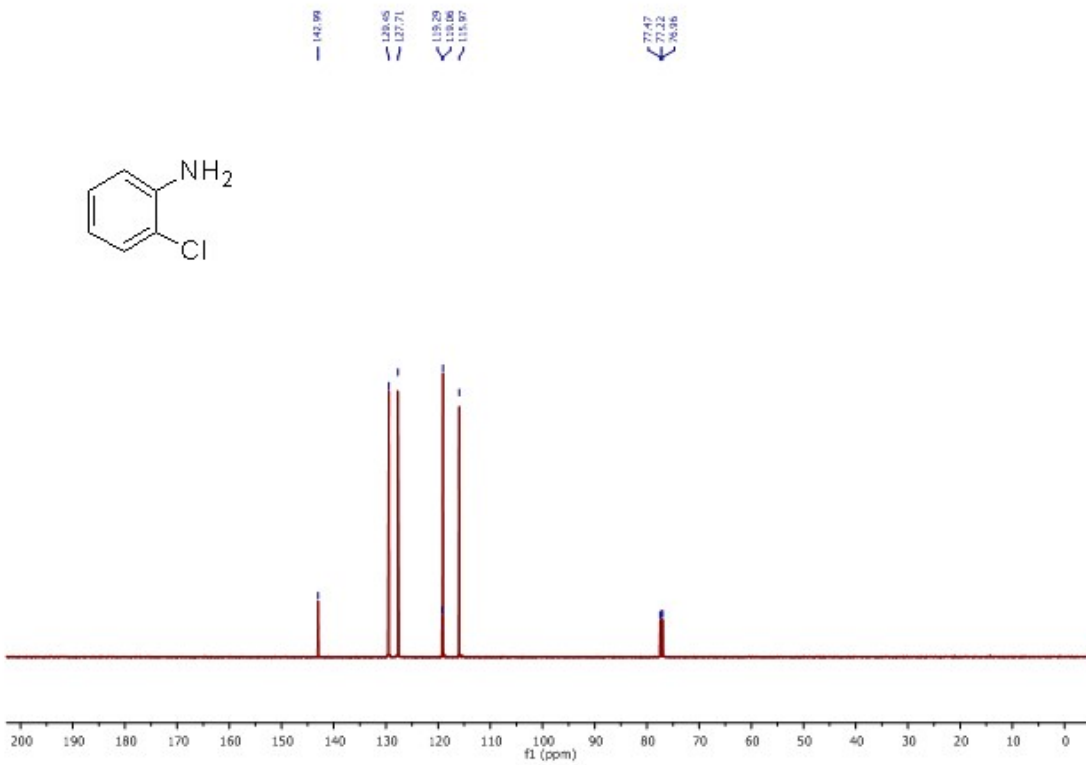
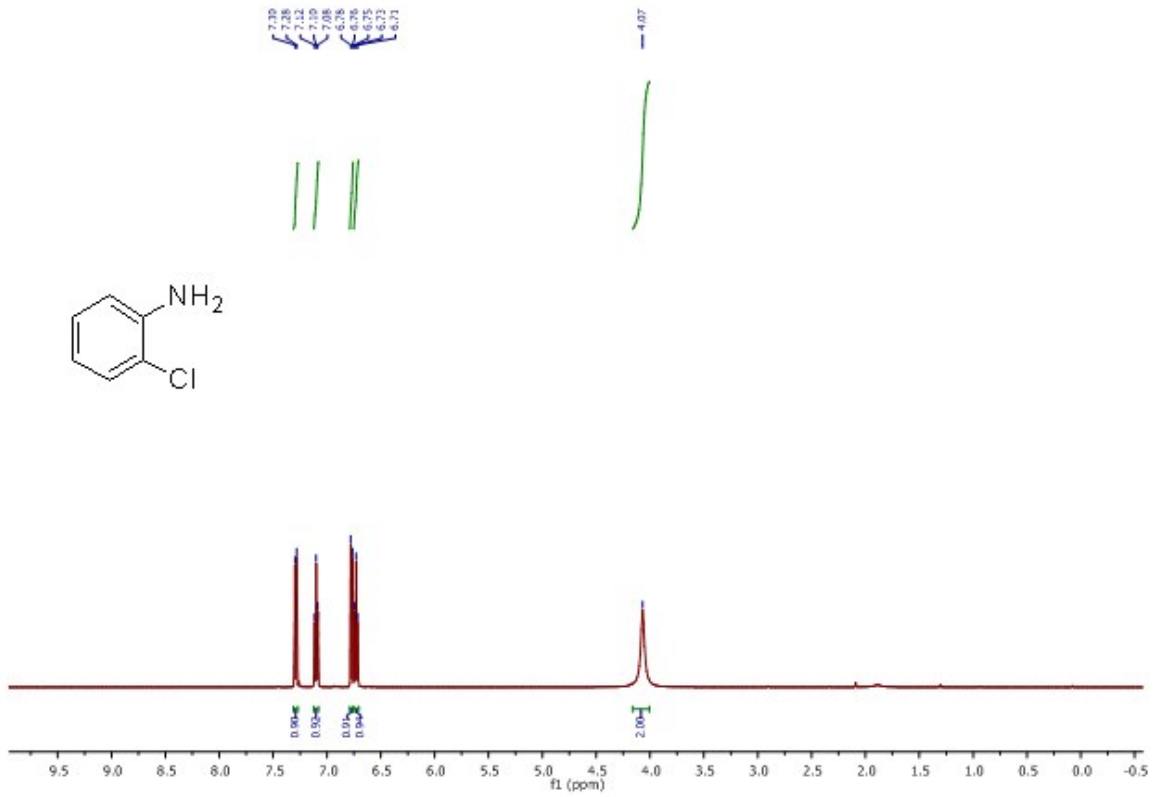


NMR spectra of amines

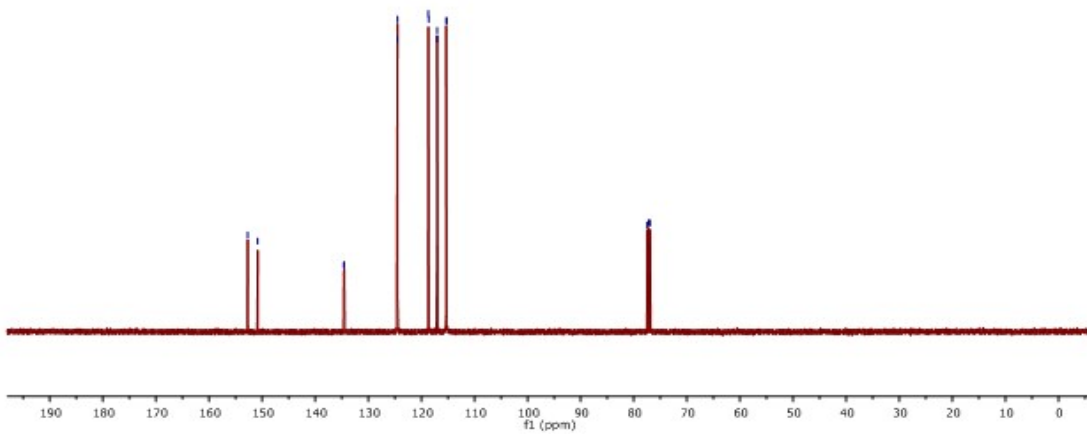
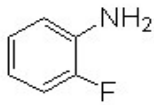
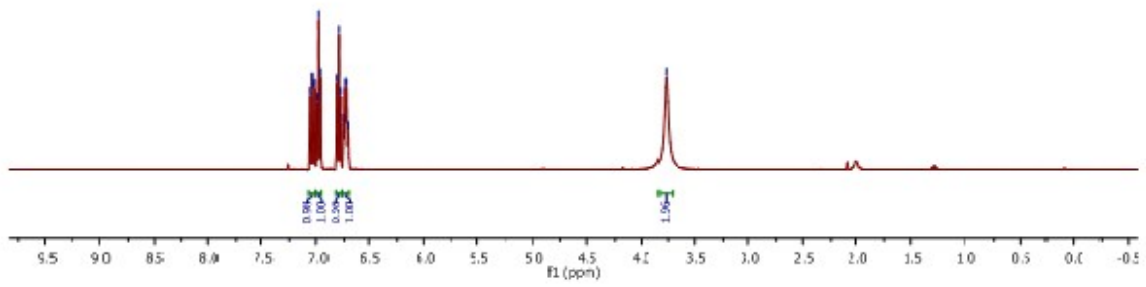
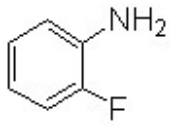
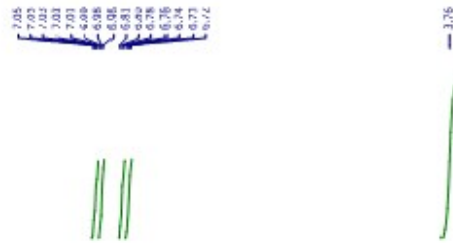
1) Aniline



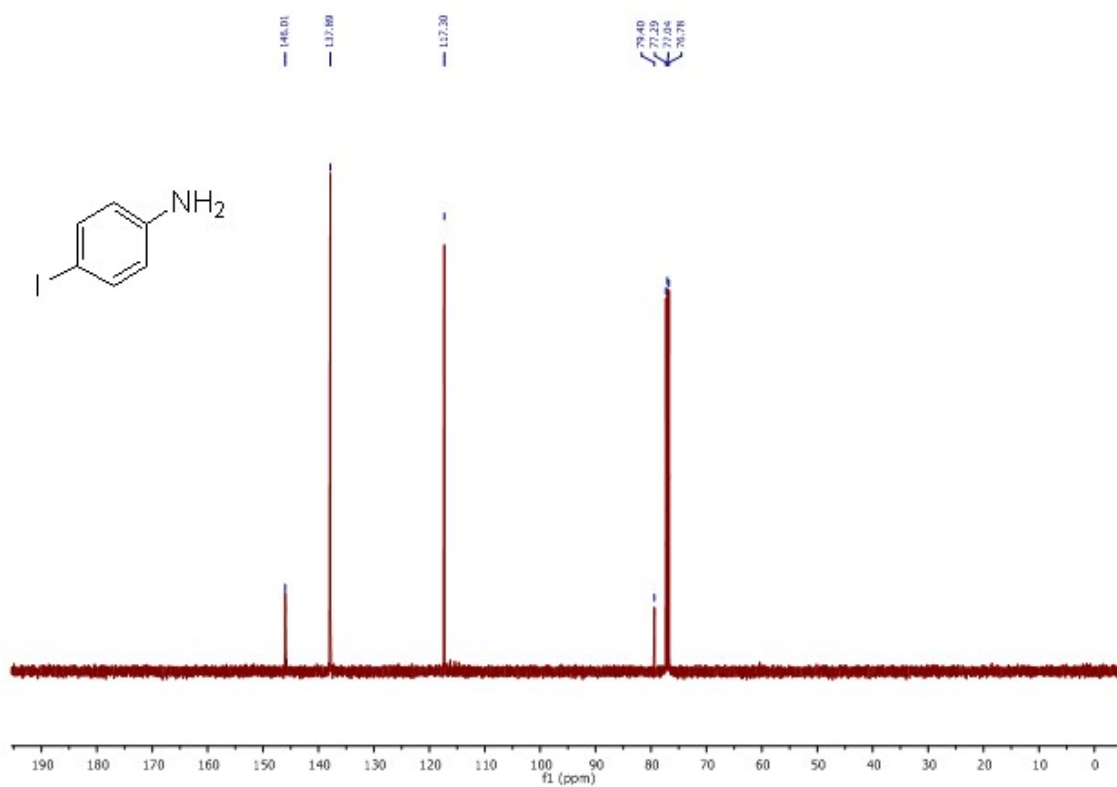
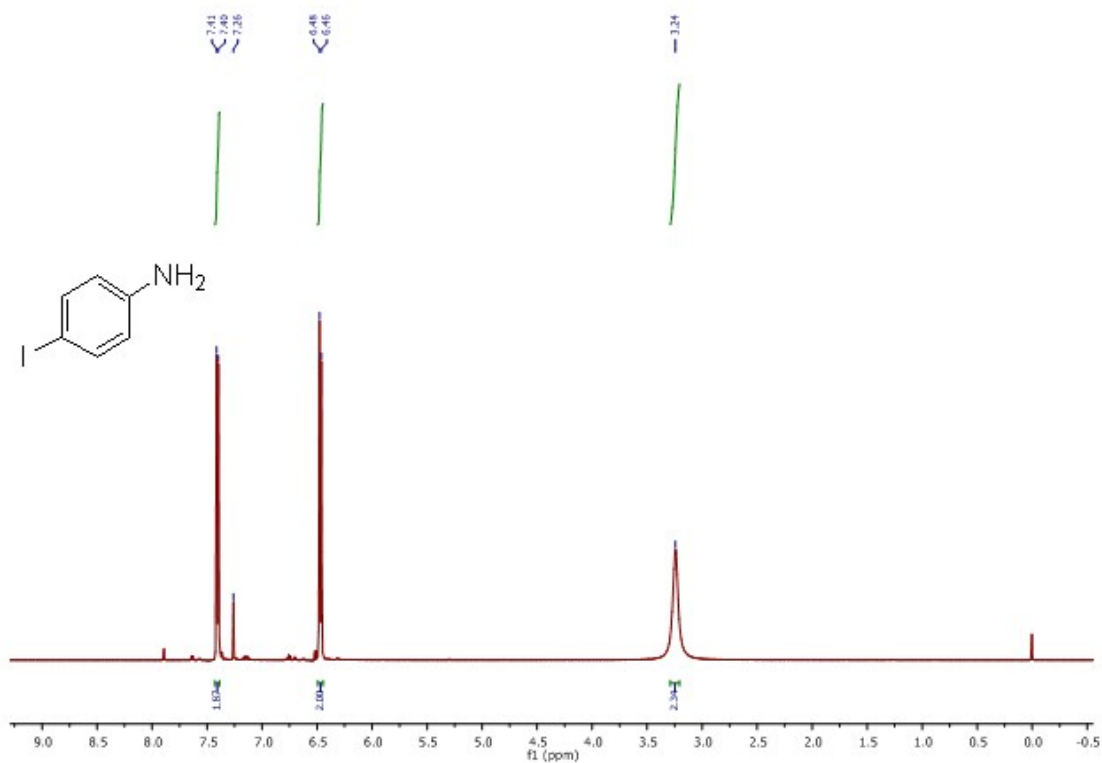
2) 2-Chloroaniline



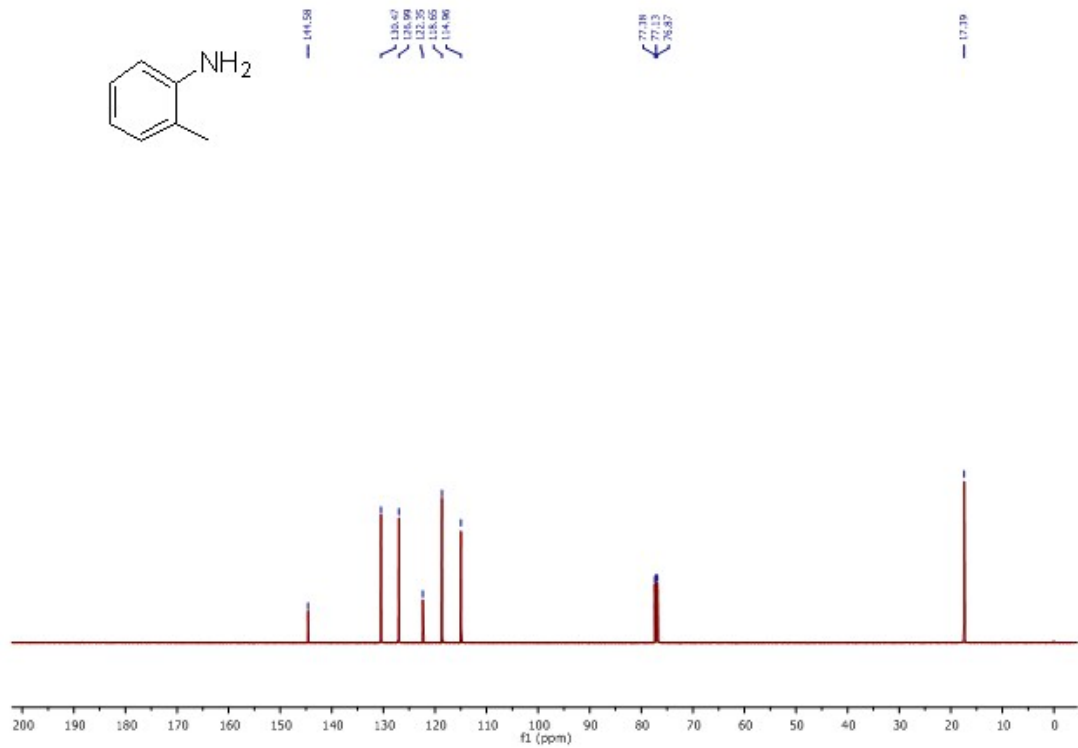
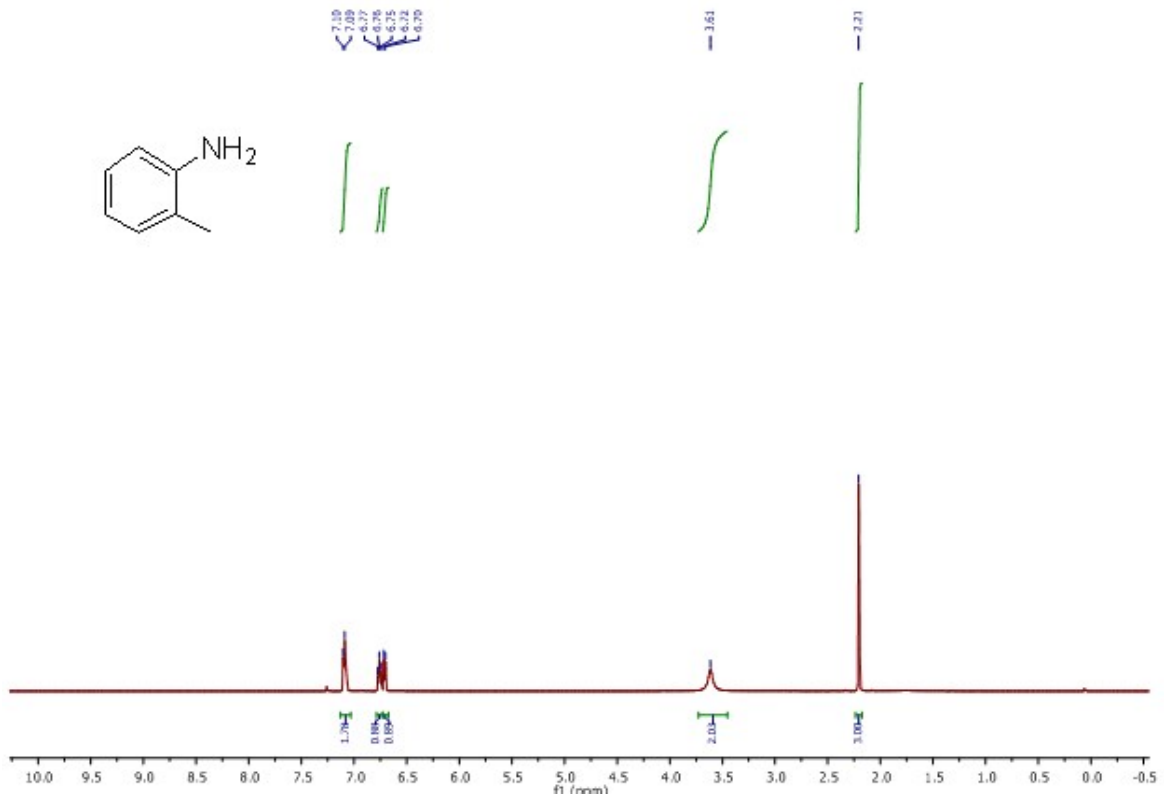
3) 2-Fluoroaniline



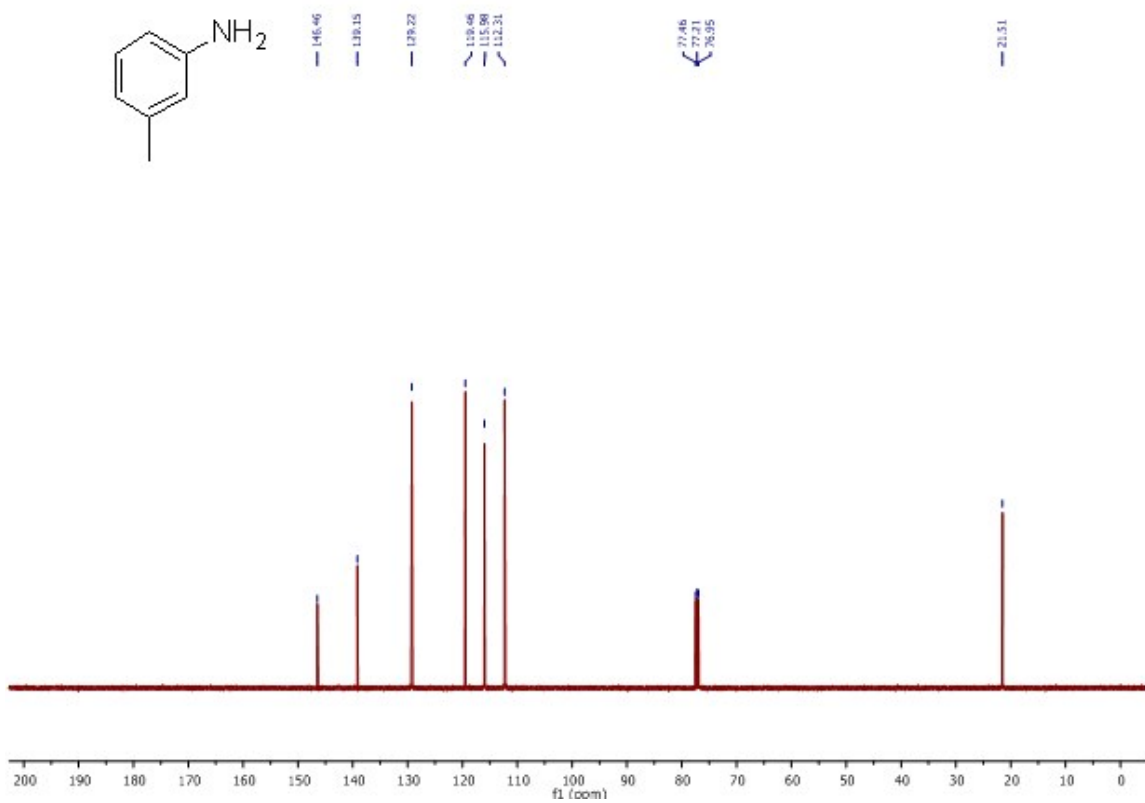
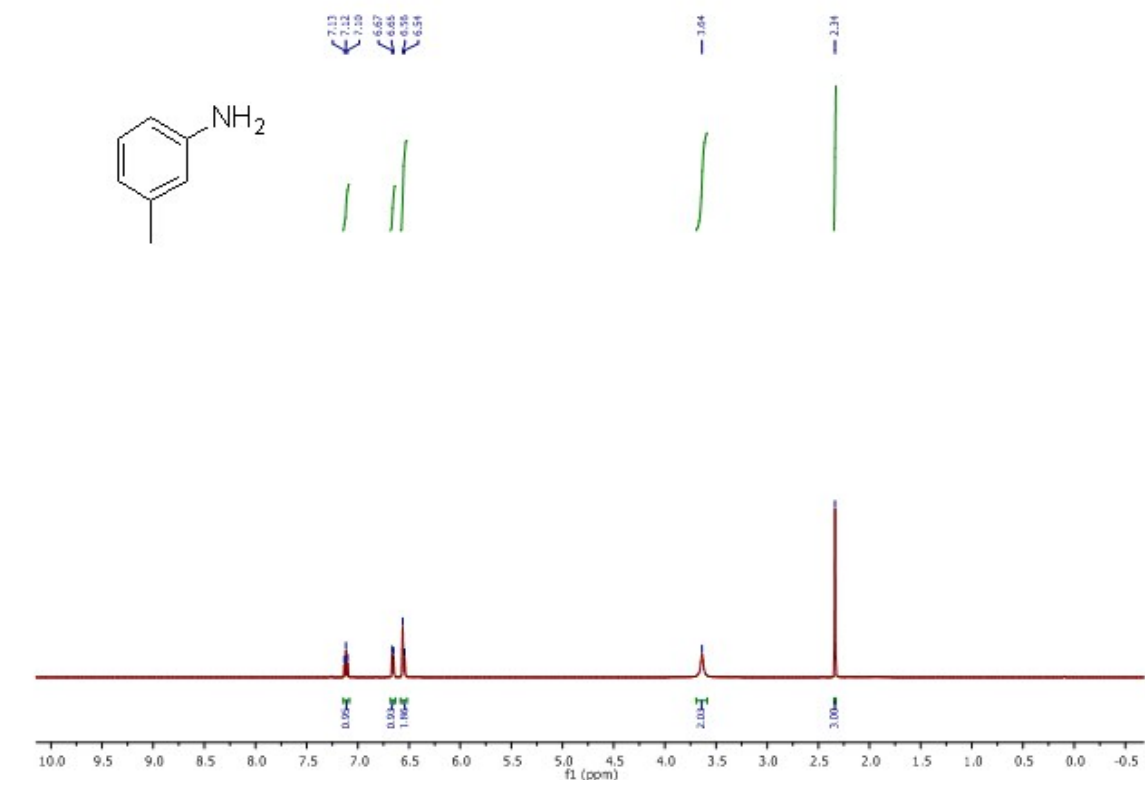
4) 4-Iodoaniline



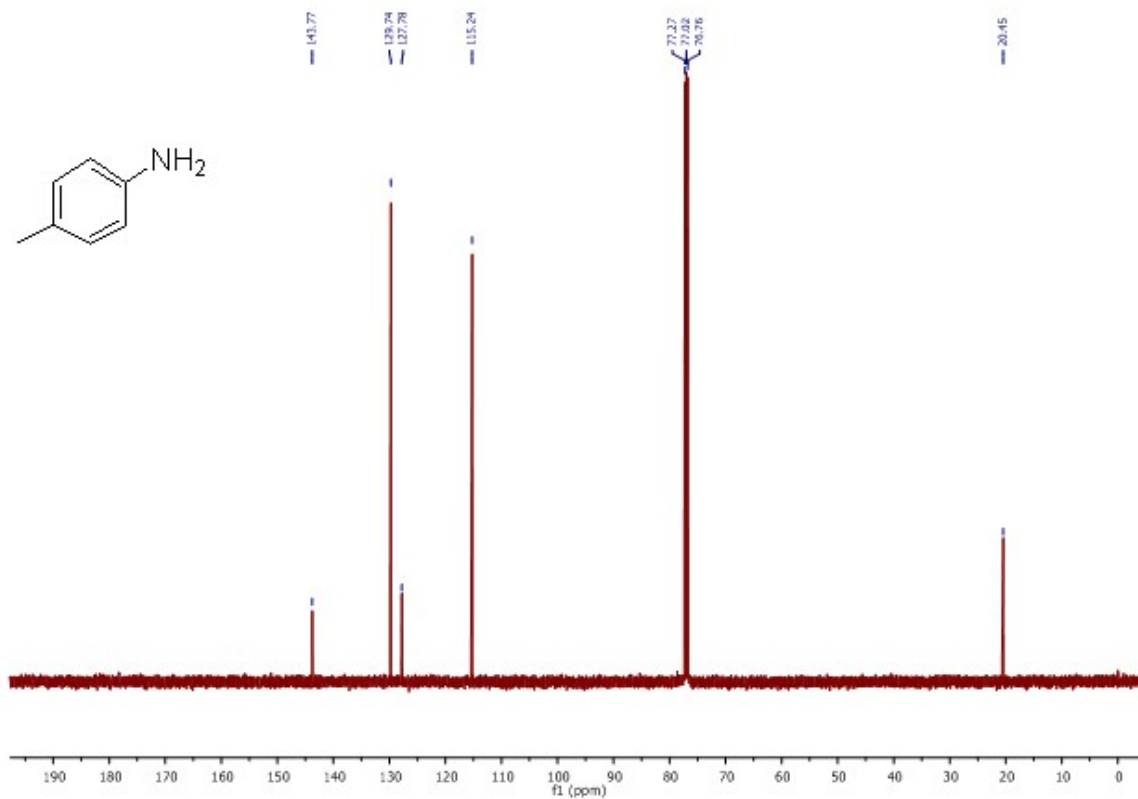
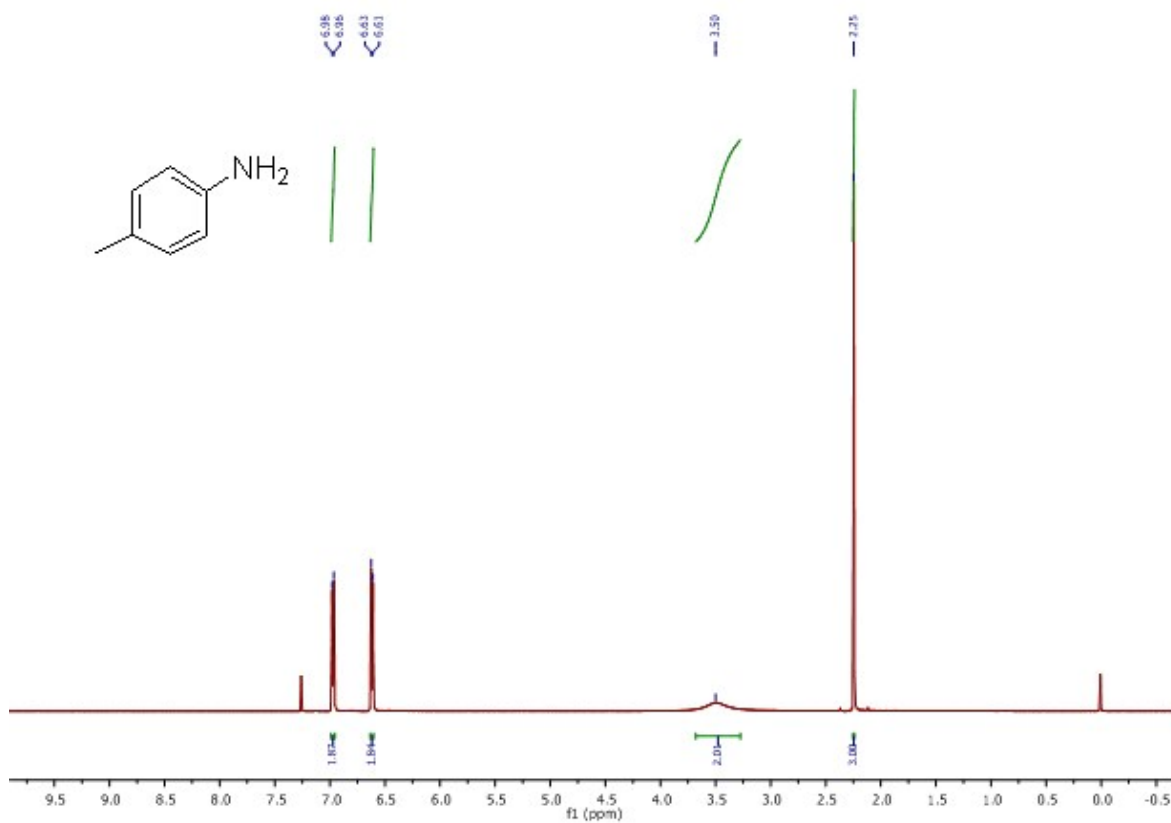
5) *o*-Toluidine



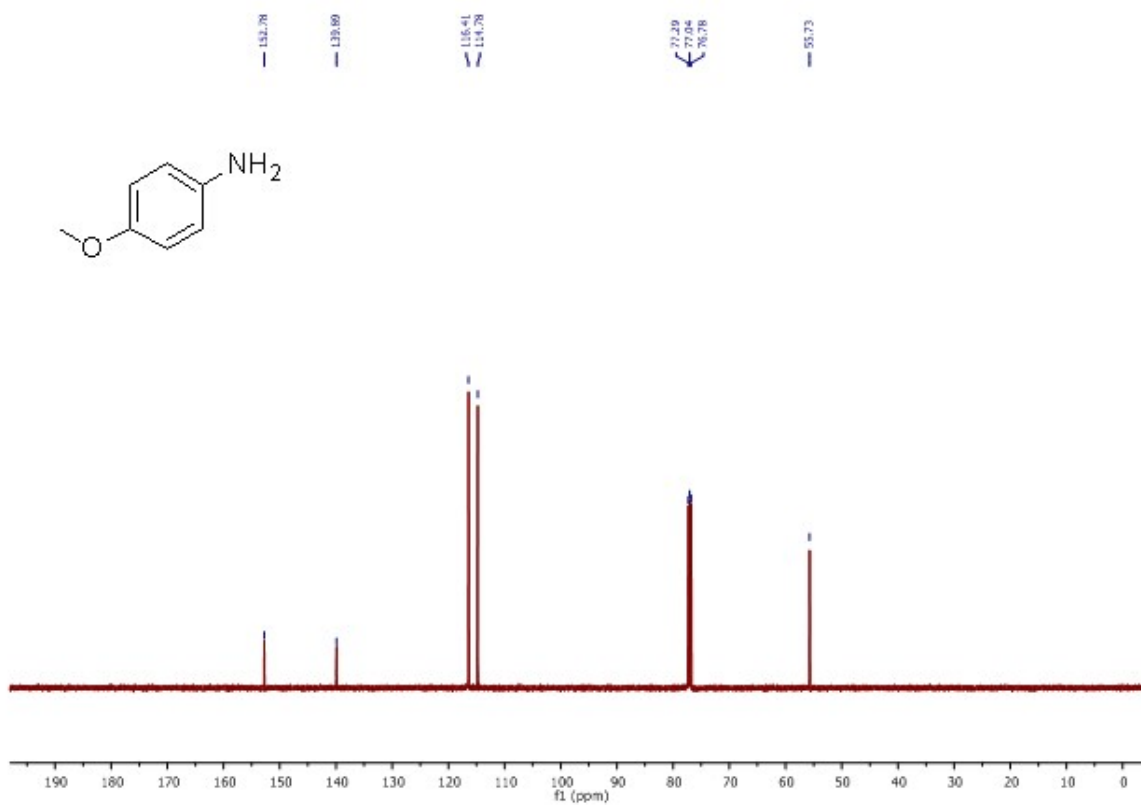
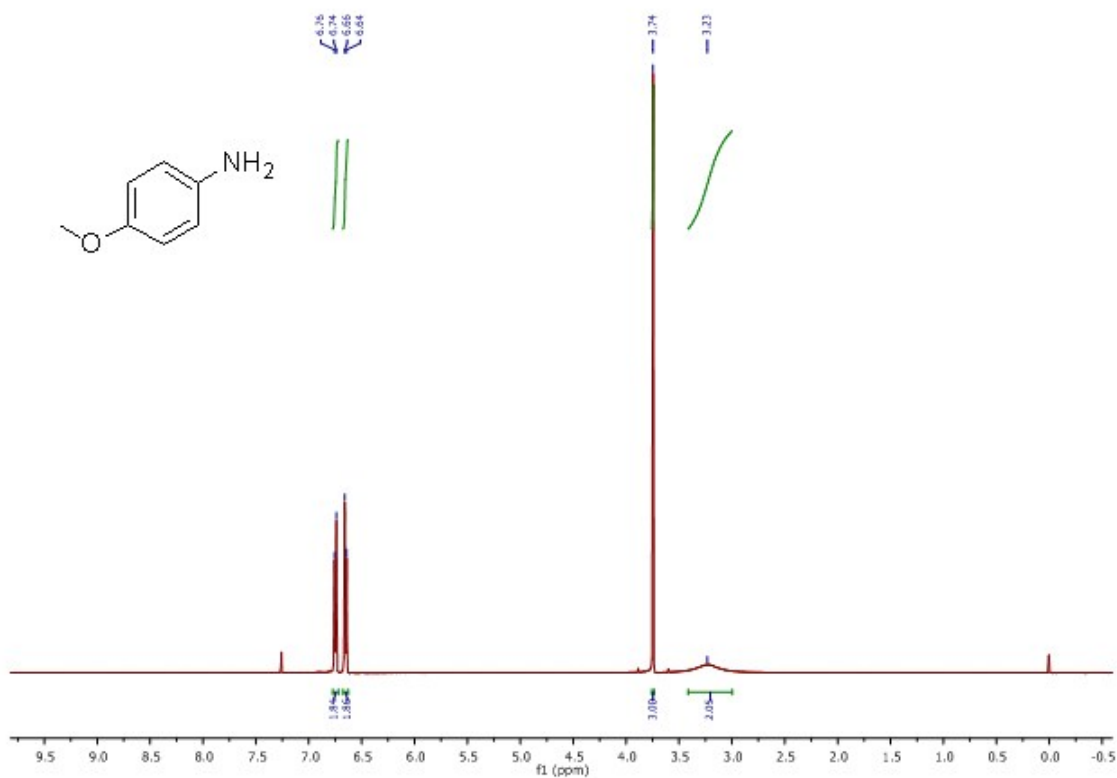
6) *m*-Toluidine



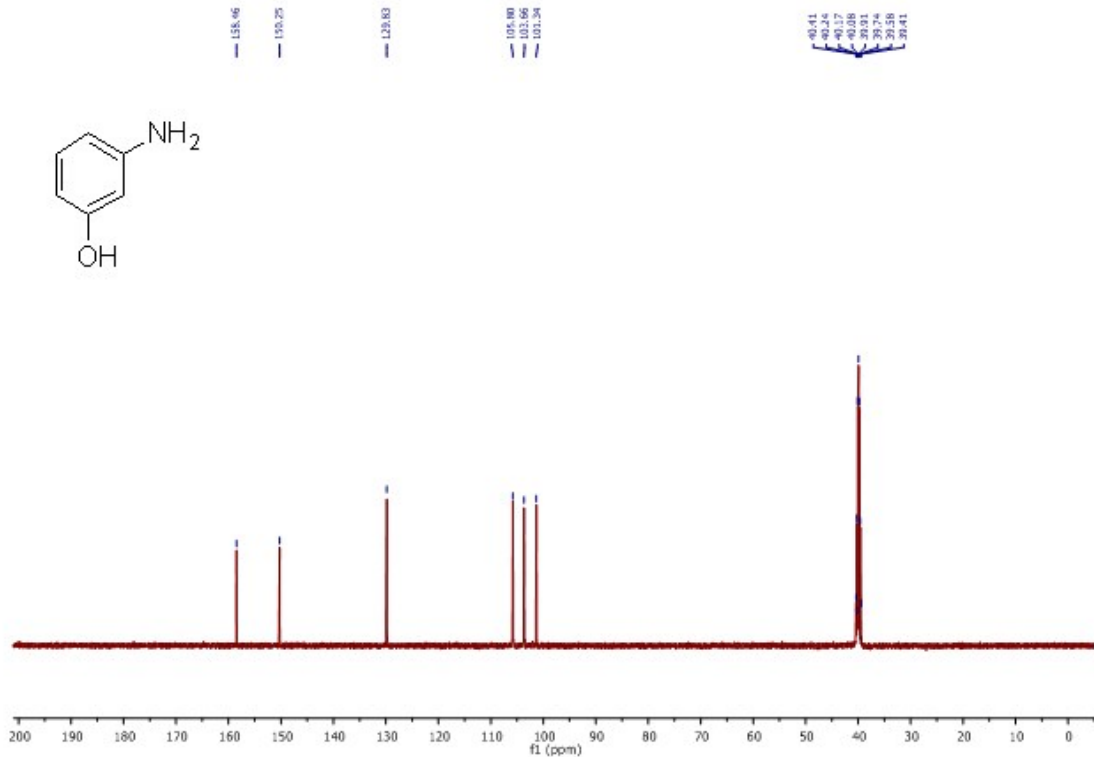
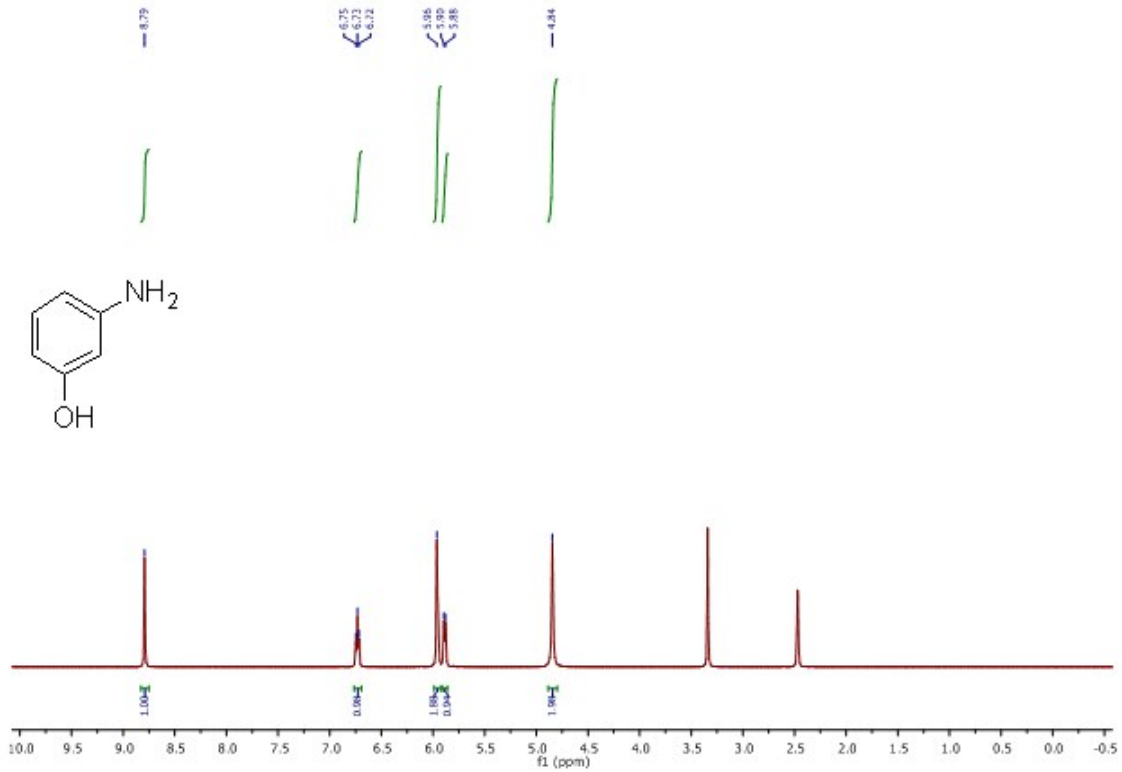
7) *p*-Toluidine



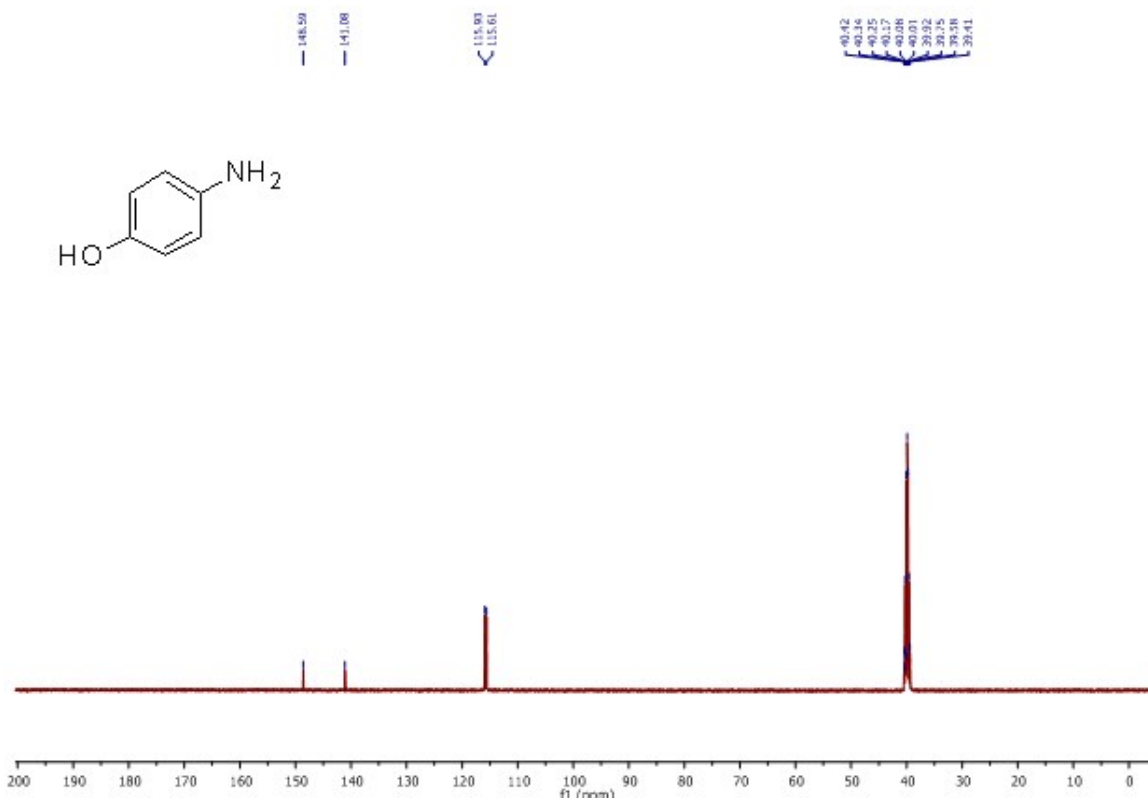
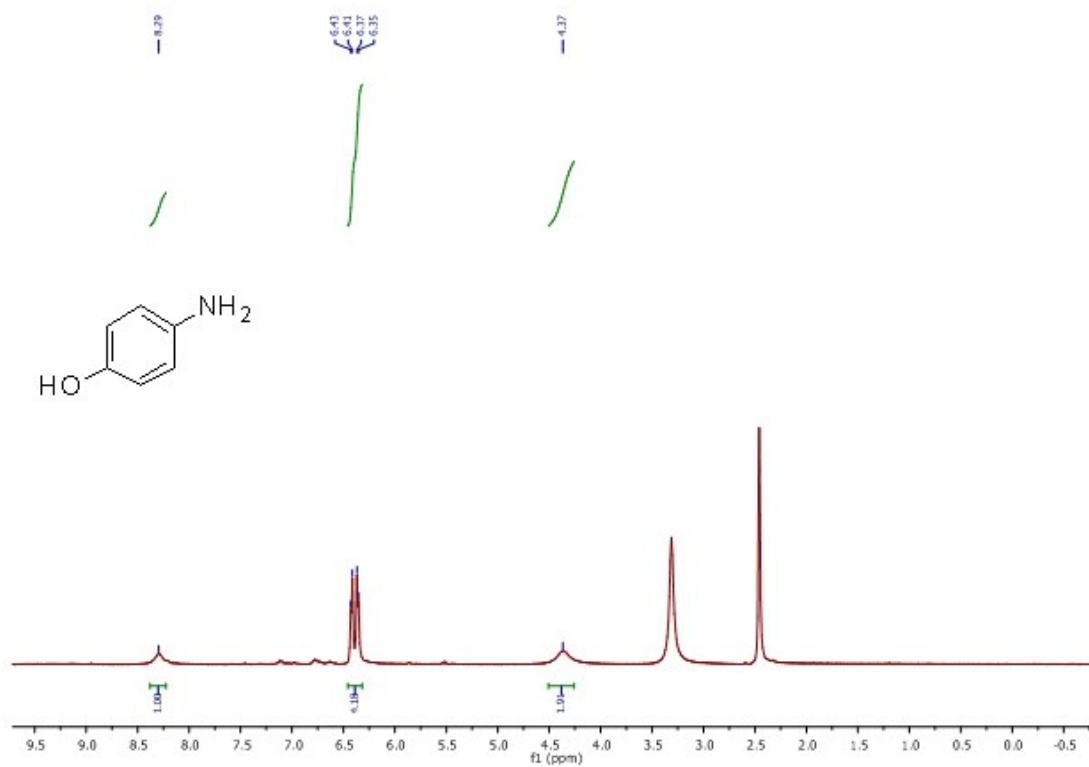
8) *p*-Anisidine



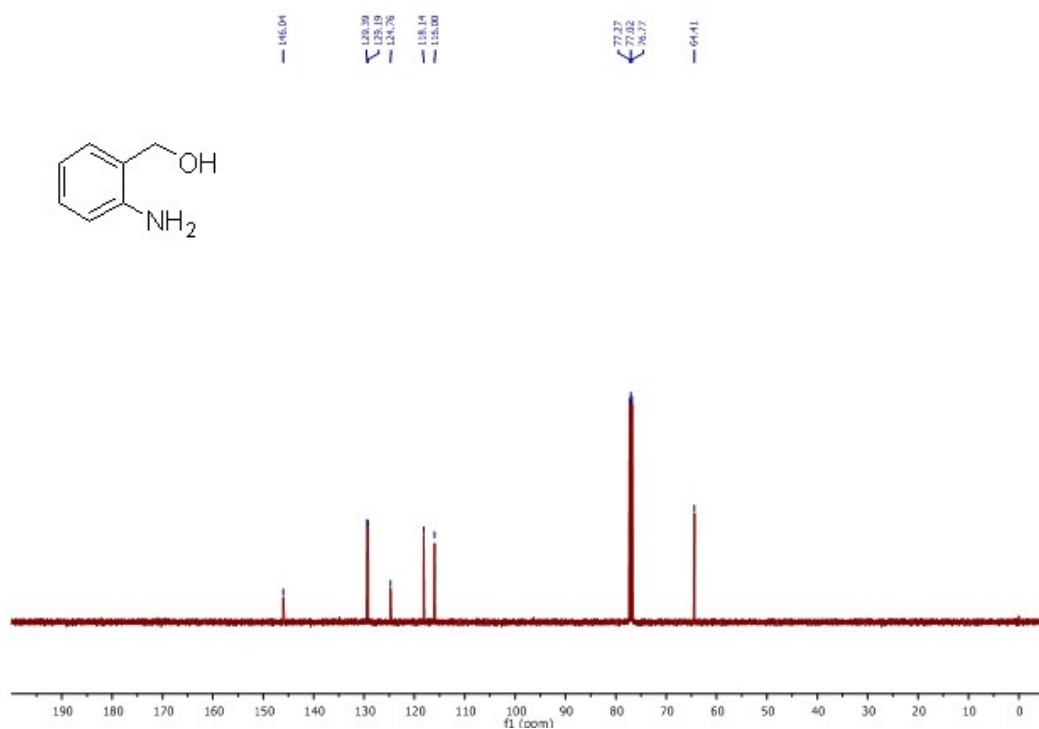
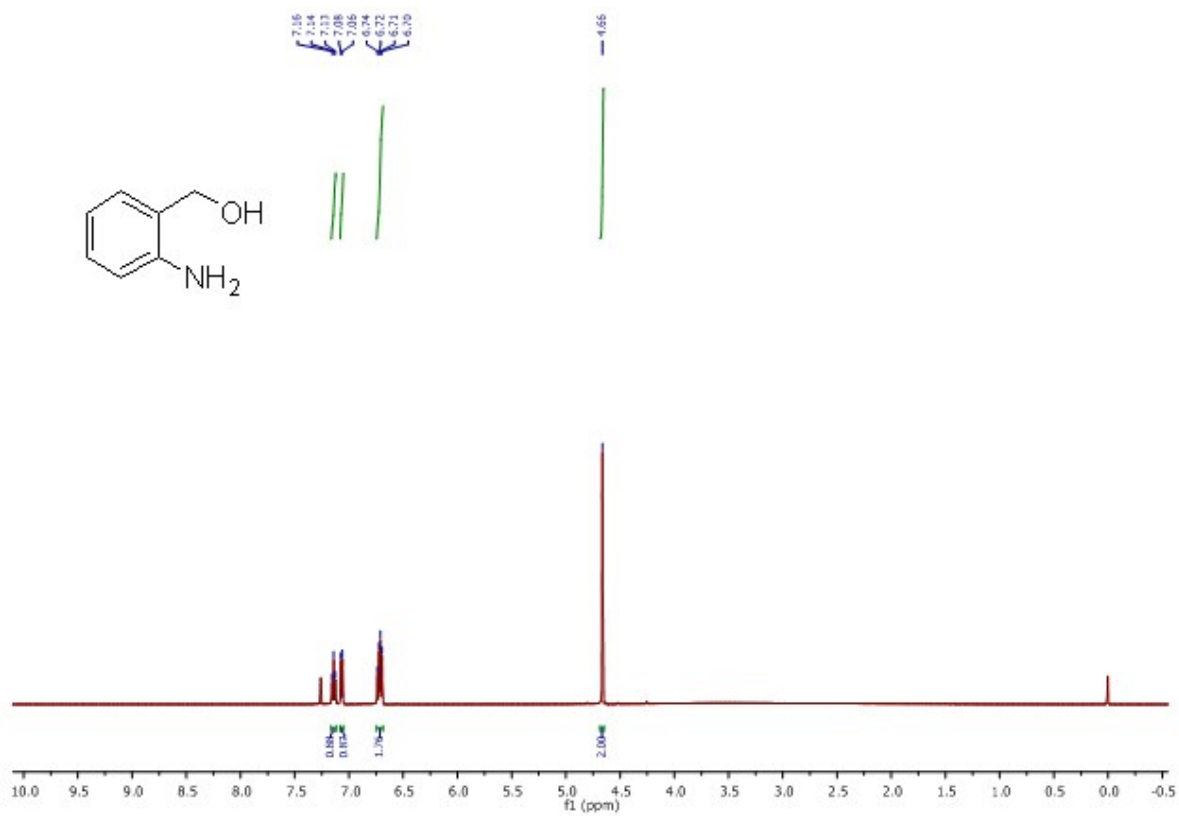
9) *m*-Aminophenol



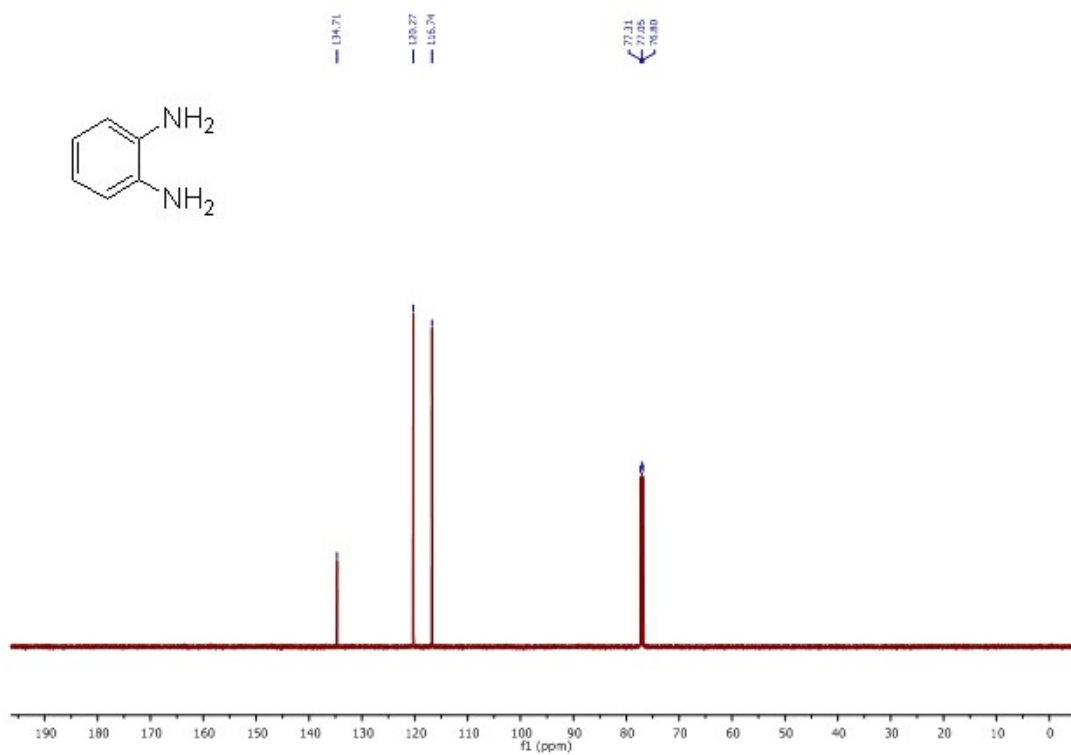
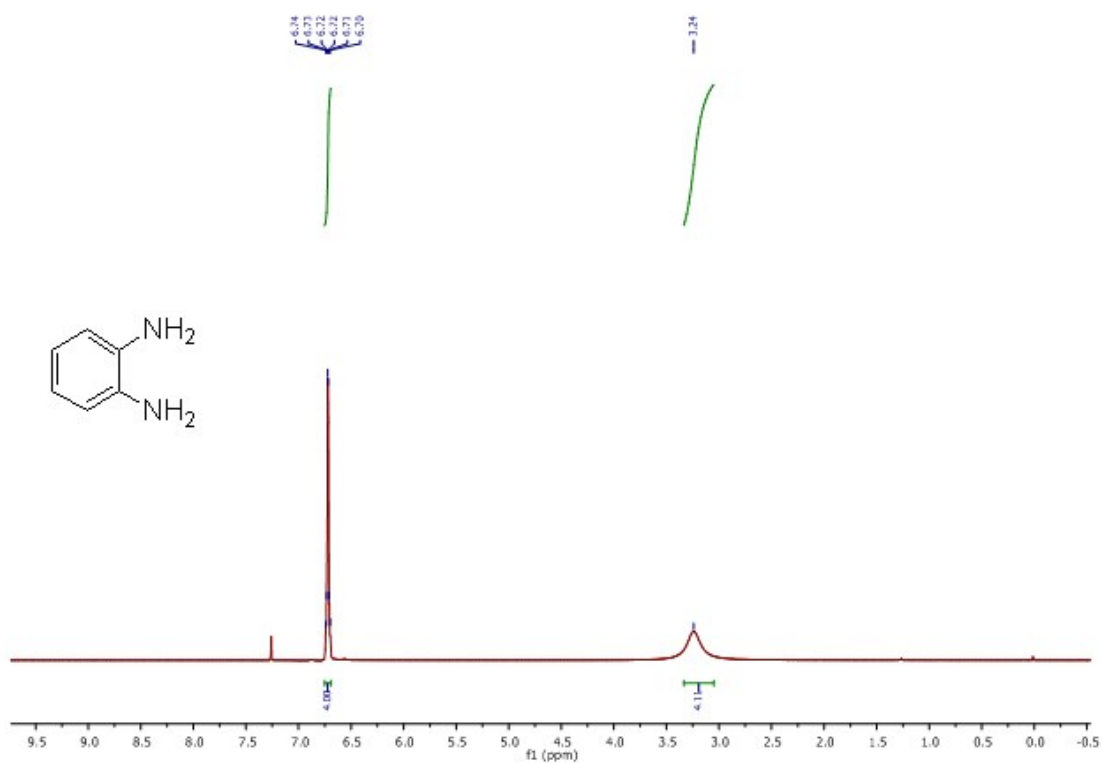
10) *p*-Aminophenol



11) 2-Aminobenzylalcohol



12) *o*-Phenylenediamine



13) 4-Aminobenzonitrile

