

Supplementary Information

Ru(II)/PEG-400: A green synthesis of indolyl-oxindoles and indolyl-cyclohexane-dione hybrids as potential antimicrobial agents

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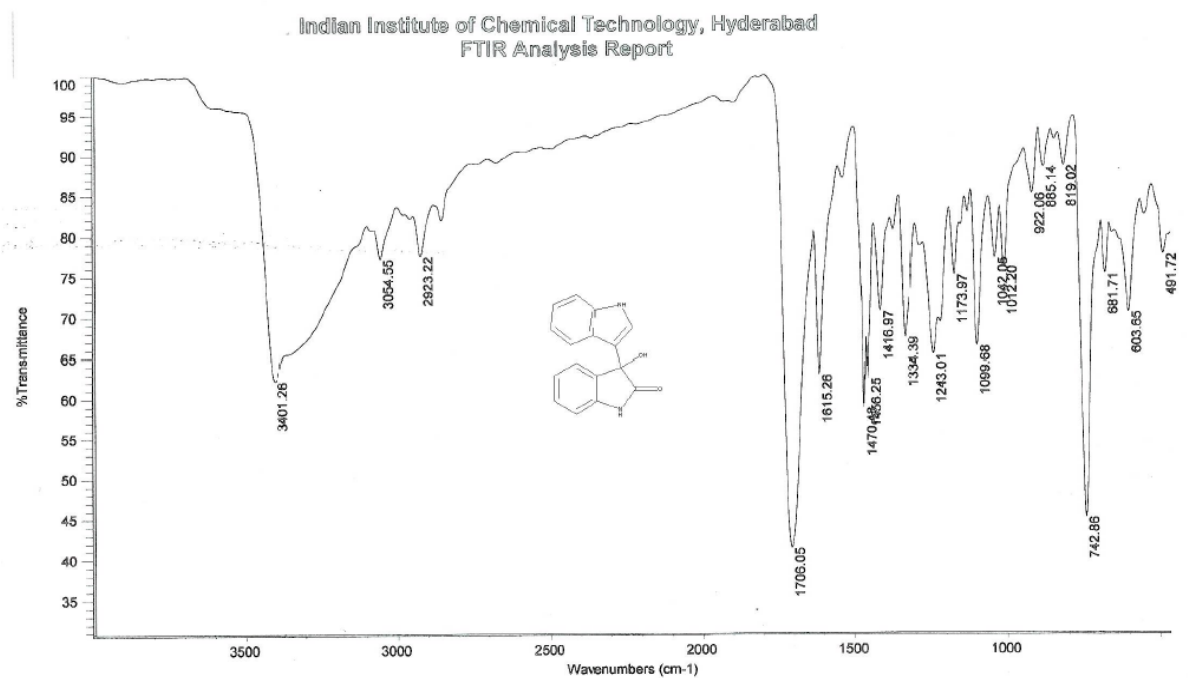
General Details

All solvents were used as commercial anhydrous grade without further purification. Aluminium sheets 20 x 20cm, Silica gel 60 F₂₅₄, Merck grade was used for thin layer chromatography to determine progress of reaction. Melting points were determined in open capillary tube and are uncorrected. IR, ¹H and ¹³C-NMR spectra were recorded on a Bruker AV-300 MHz and 75MHZ spectrometer in CDCl₃ solvent. Mass spectra were taken on Polaris-Q Thermoscientific MS.Characterization of Synthesised compounds

- 1) IR, ¹HNMR, ¹³C-NMR, MS Spectra for 3a
- 2) ¹HNMR, ¹³C-NMR , MS Spectra for 3b
- 3) IR, ¹HNMR, ¹³C-NMR, MS Spectra for 3c
- 4) ¹HNMR, ¹³C-NMR, MS Spectra for 3d
- 5) ¹HNMR, ¹³C-NMR, MS Spectra for 3h
- 6) ¹HNMR, ¹³C-NMR, MS Spectra for 3i
- 7) ¹HNMR, ¹³C-NMR, MS Spectra for 3j

1) IR, ¹HNMR, ¹³C-NMR, MS Spectra for 3a

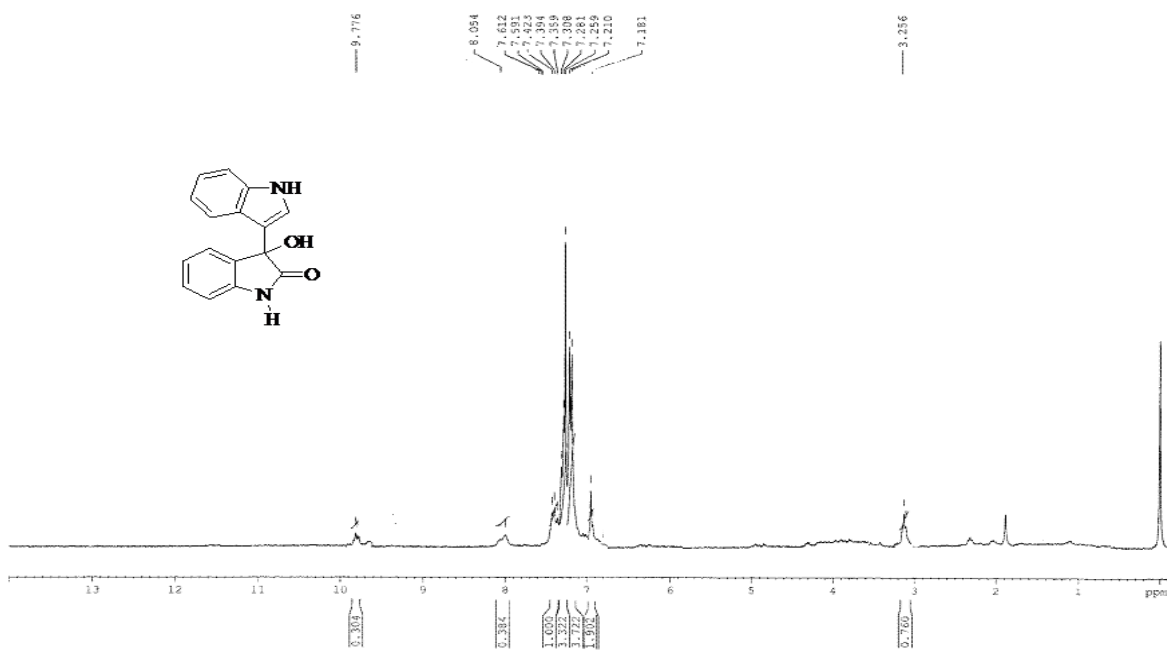
IR of 3a



¹HNMR of

3a

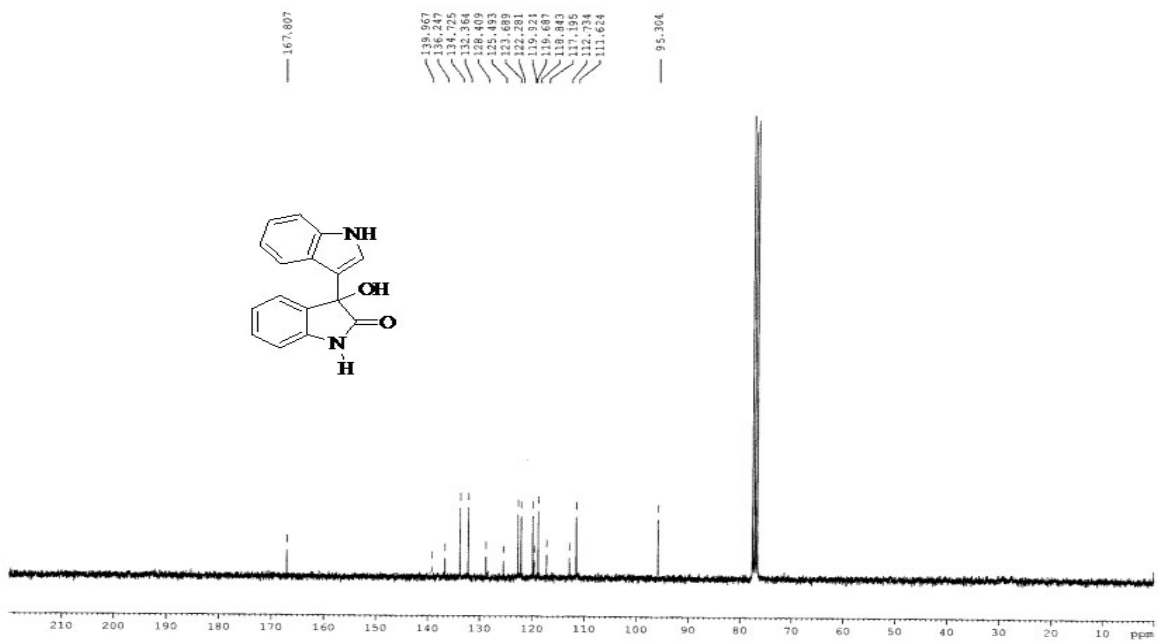
C:/1, 1H-CDCl3...
130414007



13C NMR of 3a

A6, 13C-CDCl3
011014002

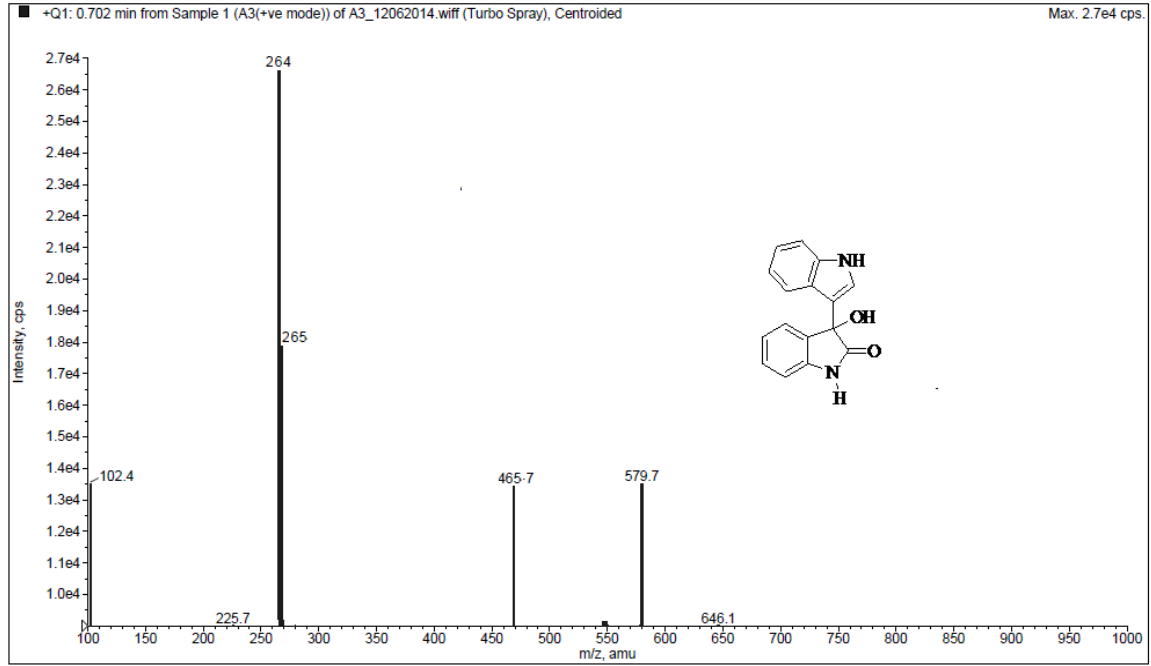
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MS Of 3a

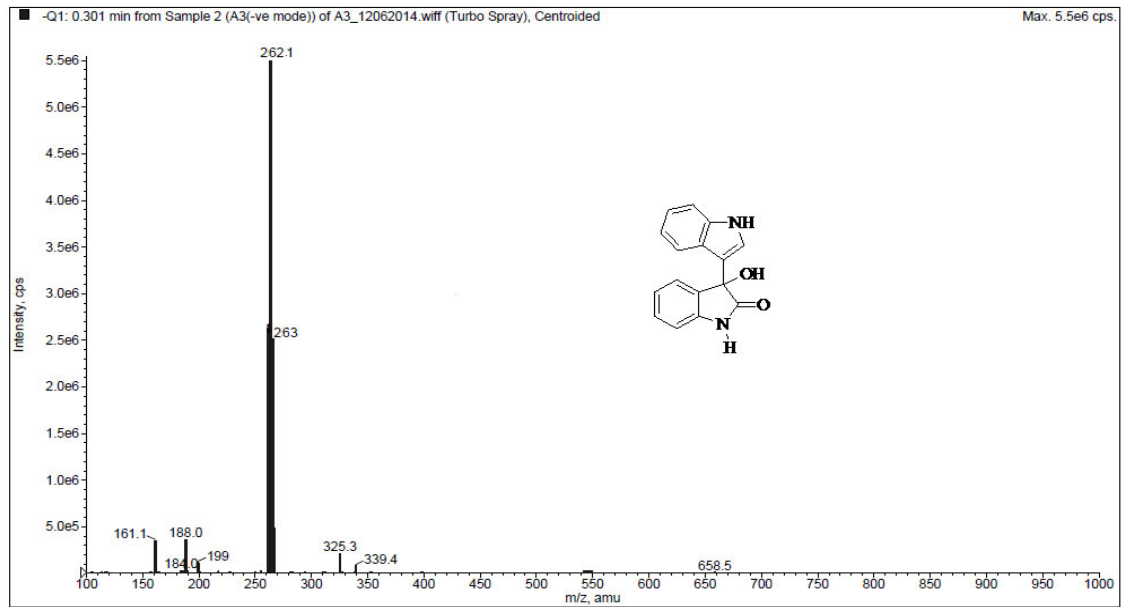
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Acq. Date: June 2020
Acq. File: A3_12062014.wiff

Acq. Time: 11:08



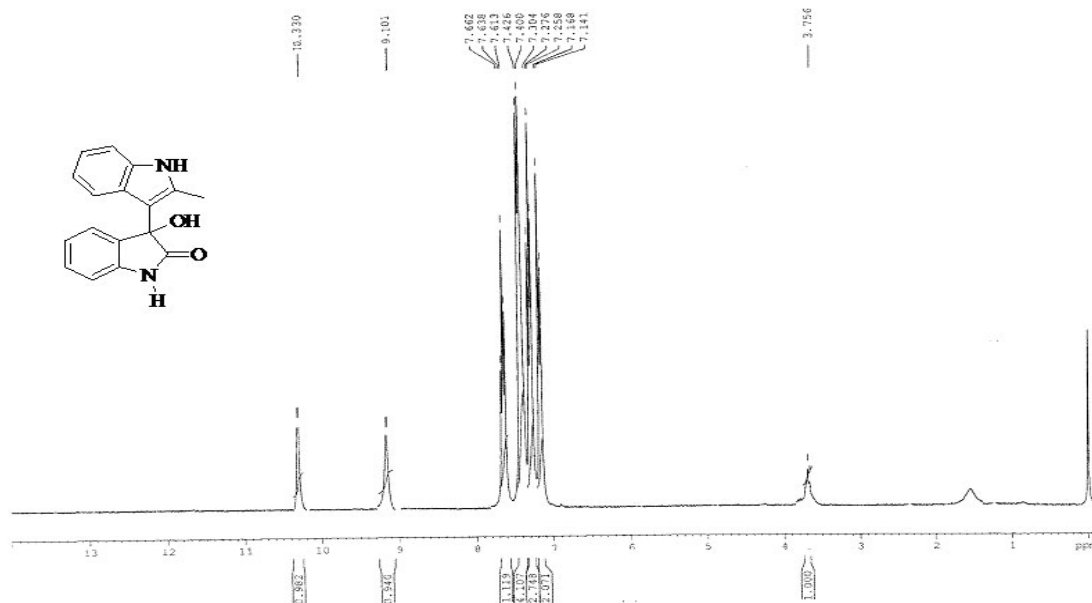
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Acq. Time: 11:11



¹H-NMR of 3b

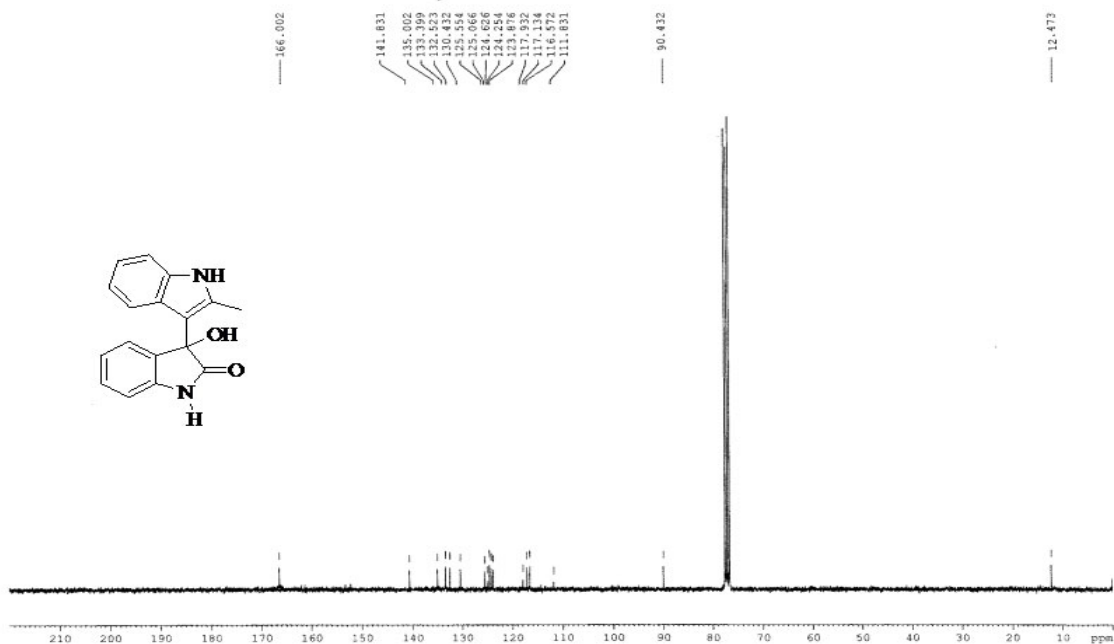
C/1, 1H-CDC13
130414006



¹³C-NMR of 3b

B6, 13C-CDC13
011014001

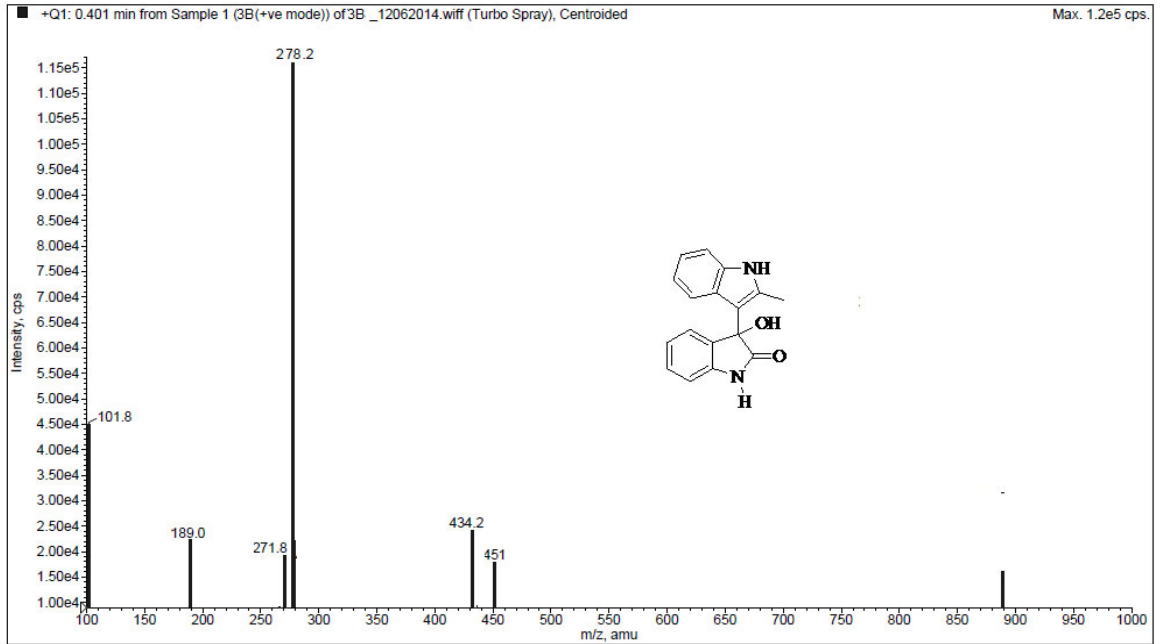
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MS of 3b

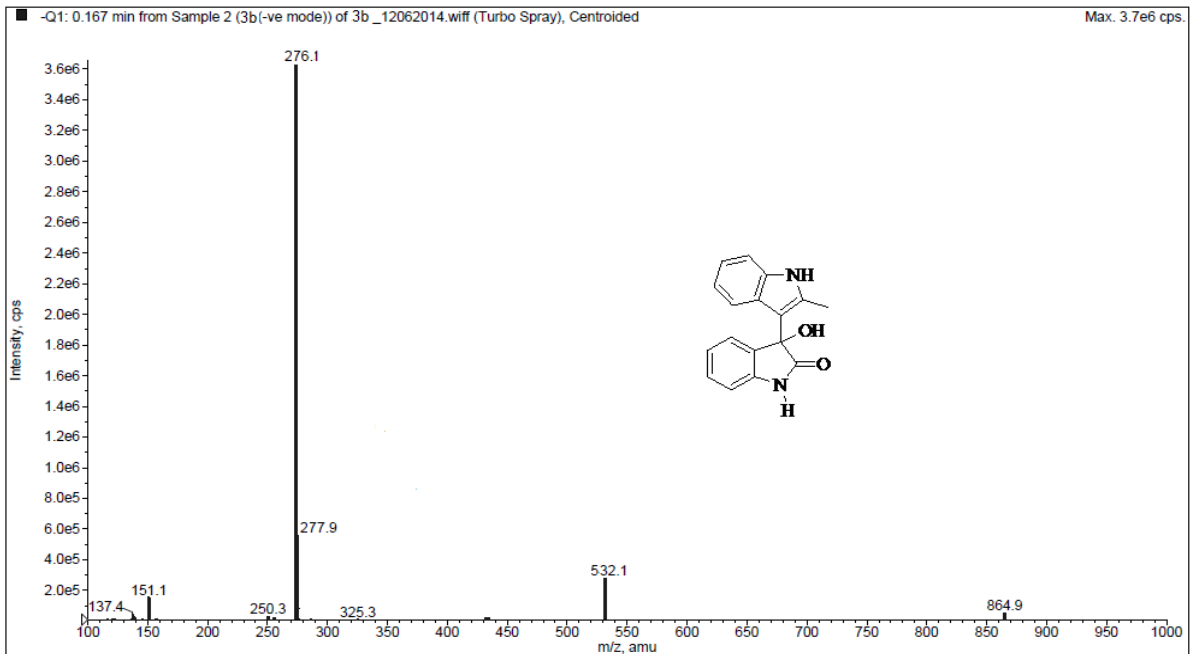
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Acq. Time: 11:24

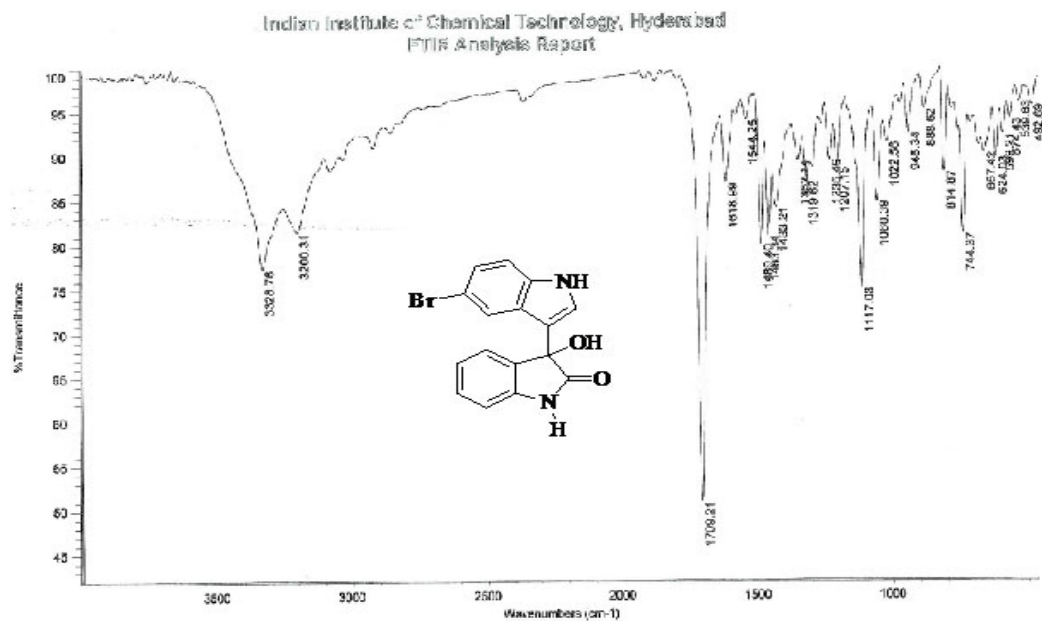


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Acq. File: 3b_12062014.wiff

Acq. Time: 11:26

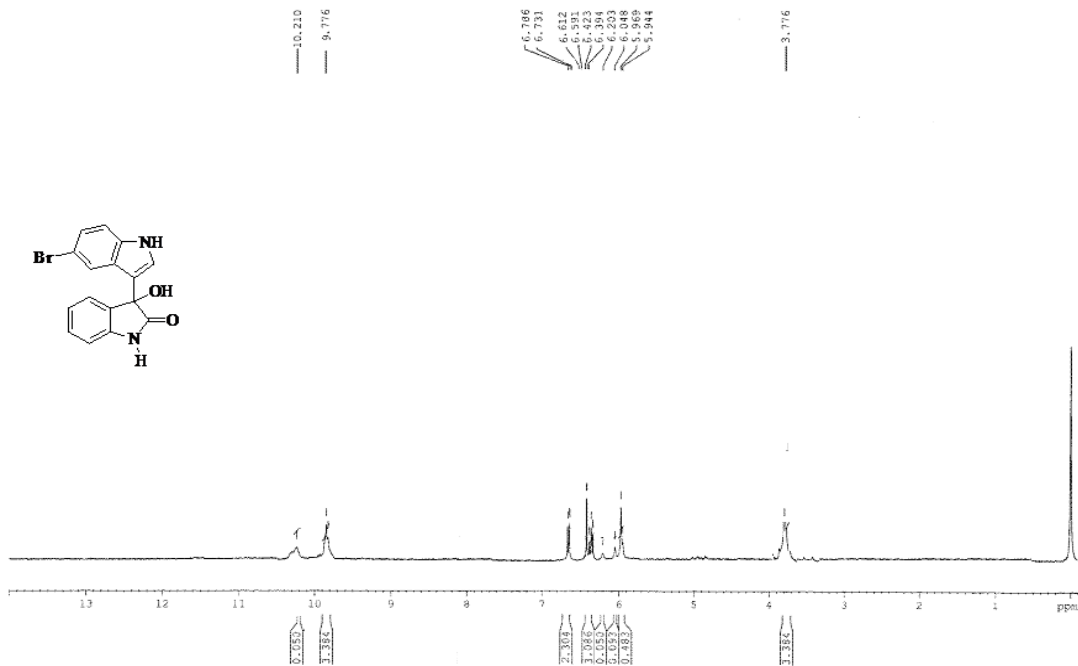


IR Of 3c



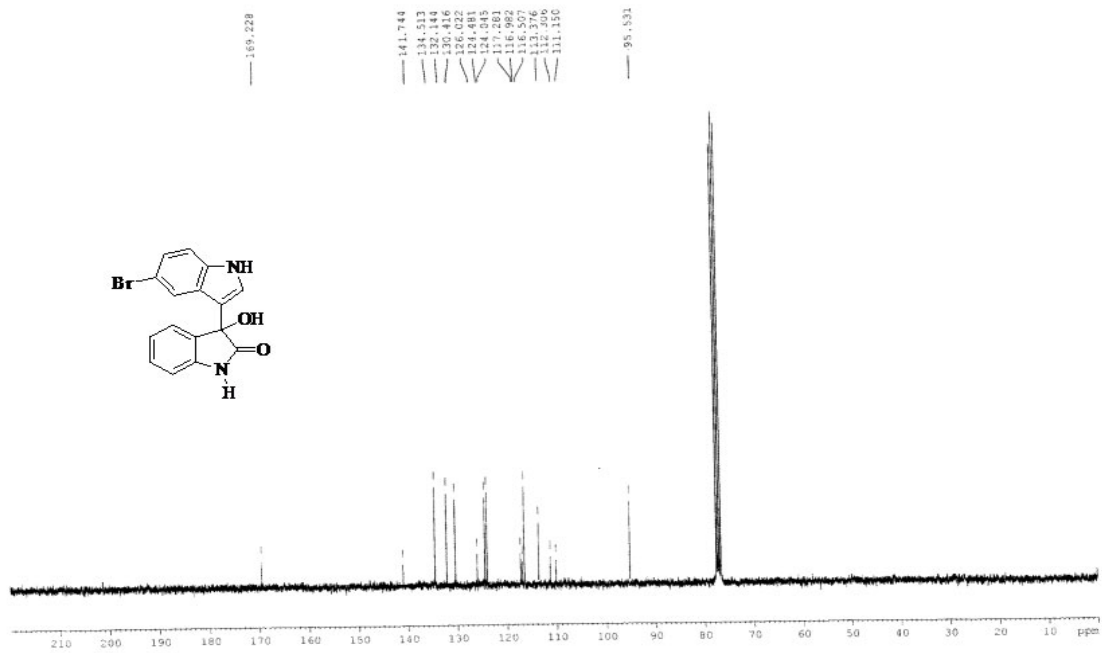
¹HNMR of 3c

C/3, 1H-CDC13...
130414037



¹³C-NMR of 3c

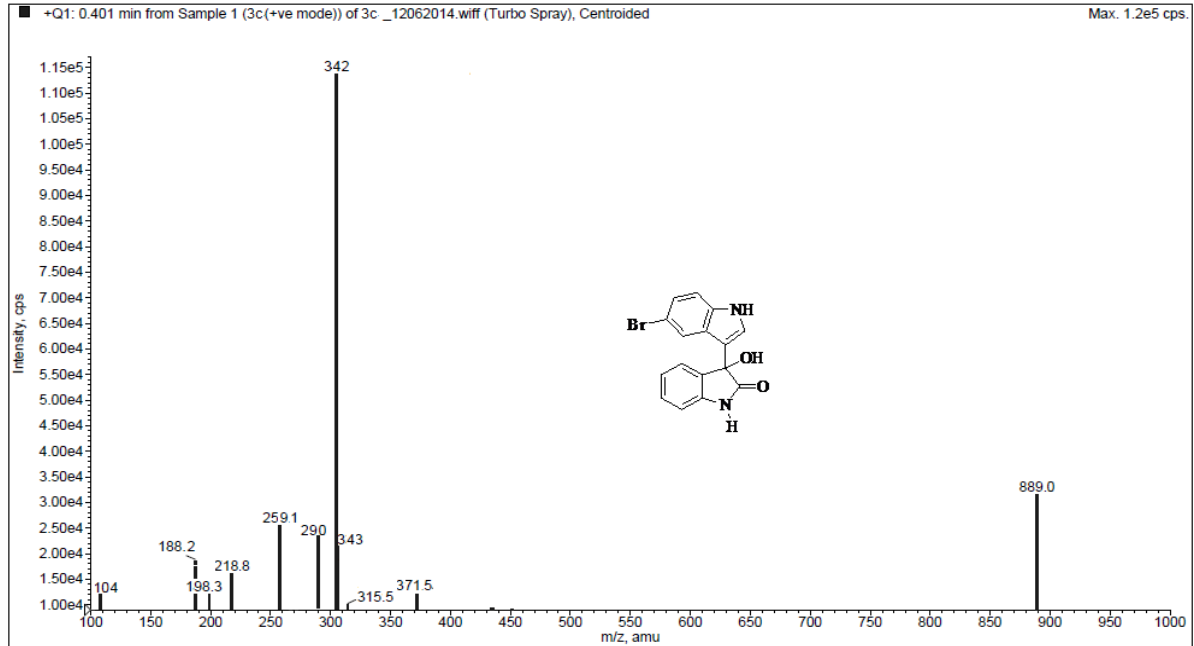
3c, ¹³C-CDCl₃
120614006



MS of 3c

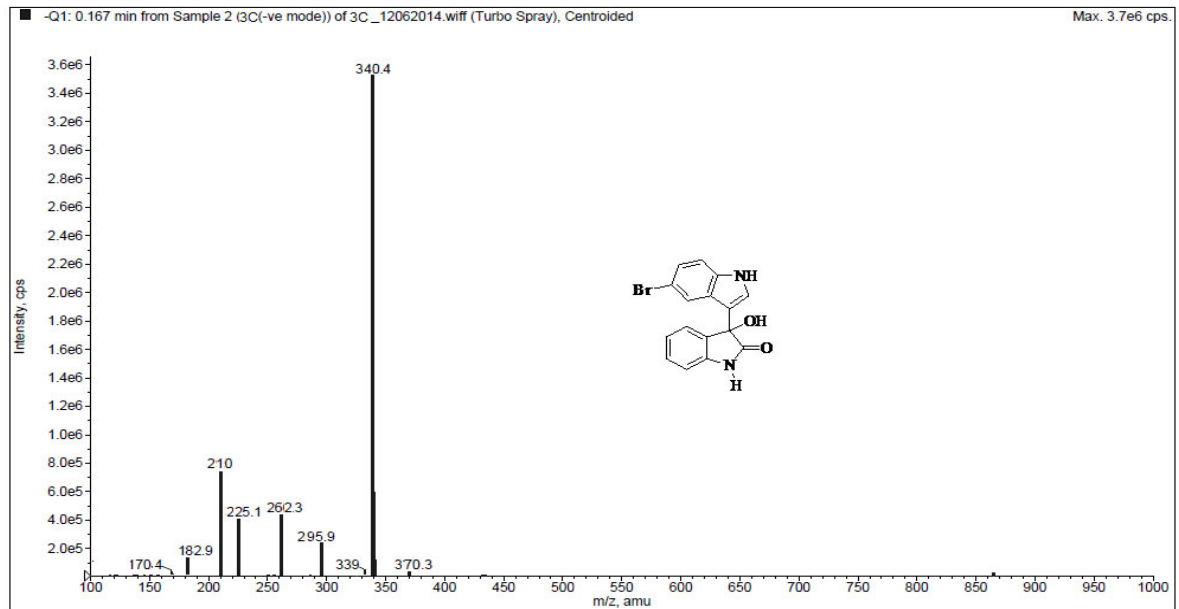
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Acq. Time: 11:14



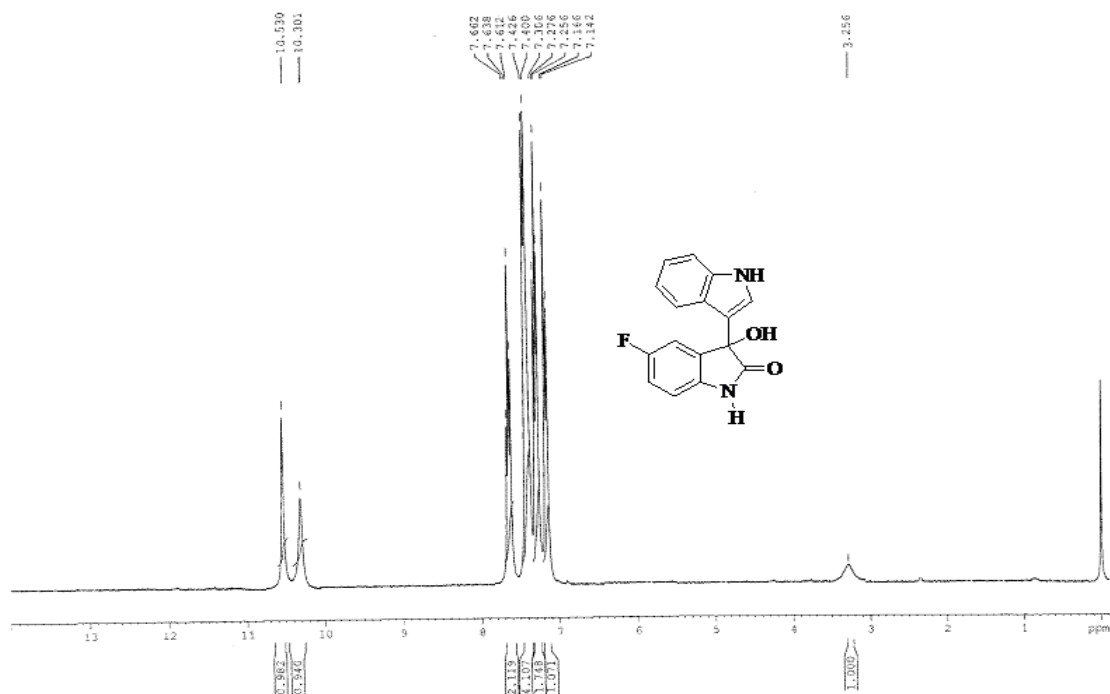
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Acq. File: 3c_12142014.wiff

Acq. Time: 12:16



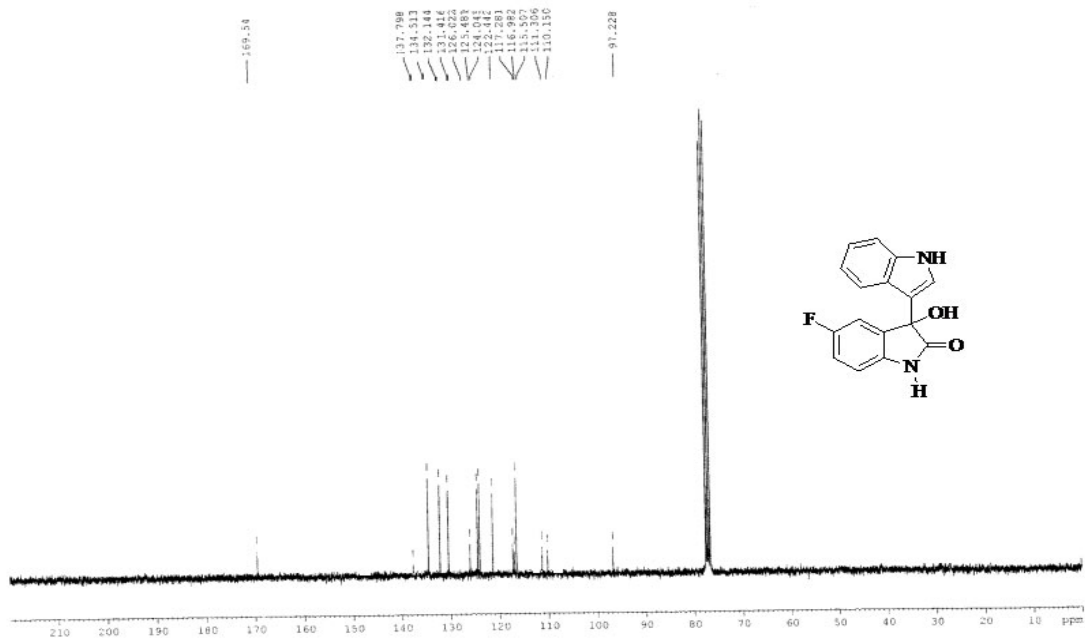
¹H NMR of 3d

C/4, 1H-CDCl₃
130414014



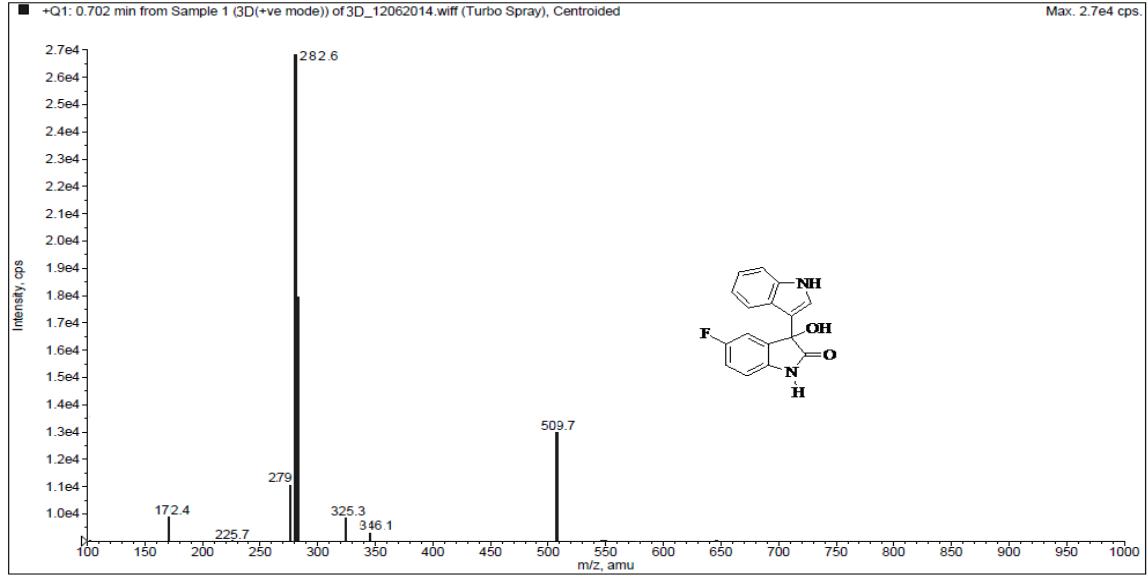
¹³C NMR of 3d

A3, 13C-CDCl₃
120614064

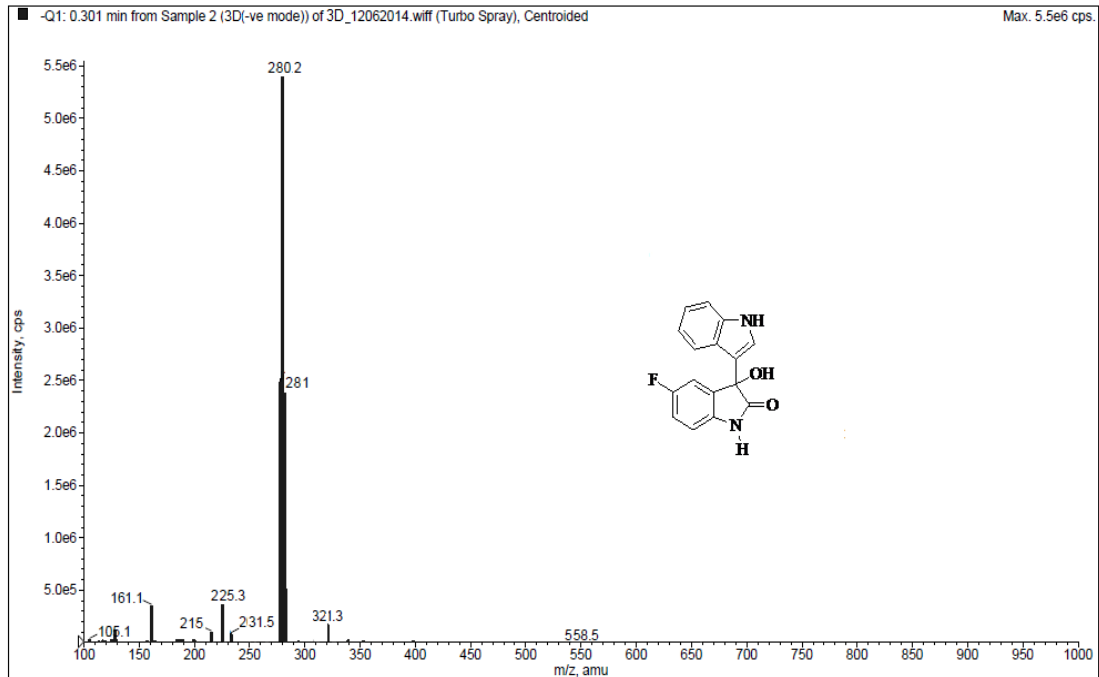


MS of 3d

Sample Name: 3d (+ve mode)
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Acq. File: 3d_12062014.wiff
Acq. Time: 11:08

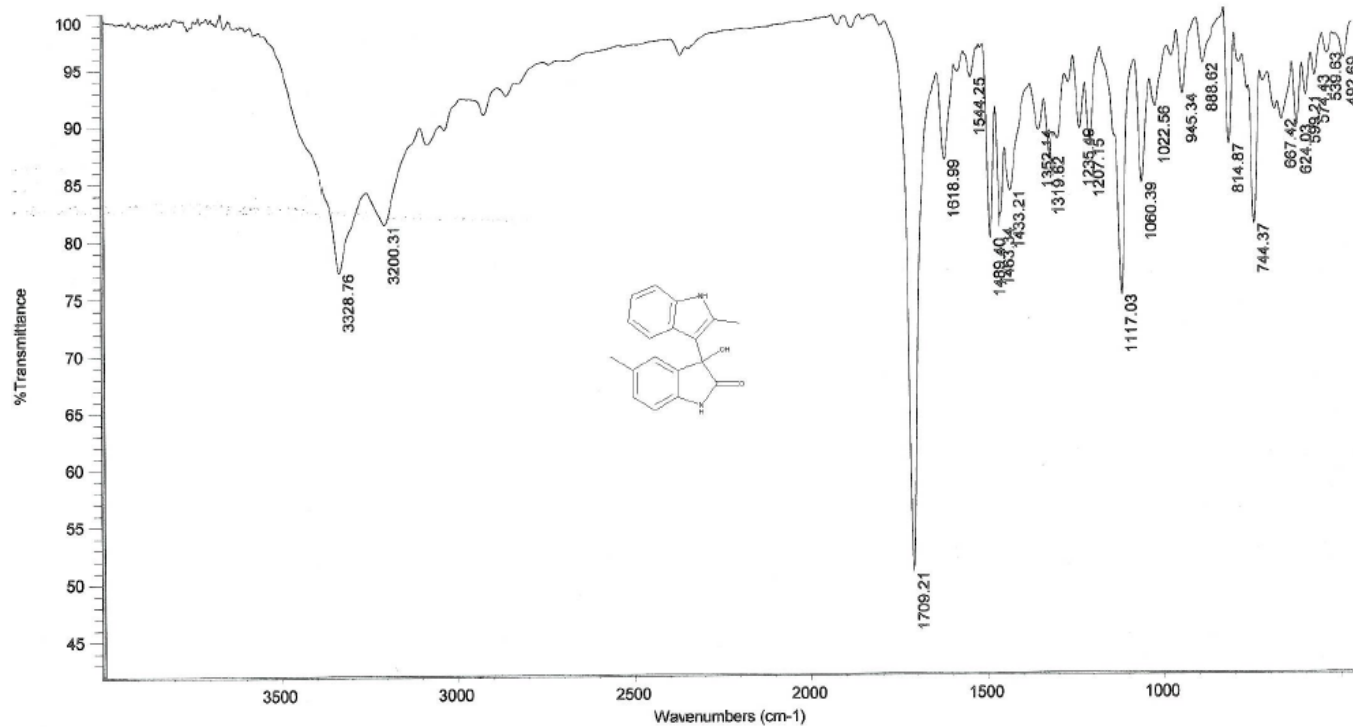


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Acq. File: 3d_12062014.wiff
Acq. Time: 11:11



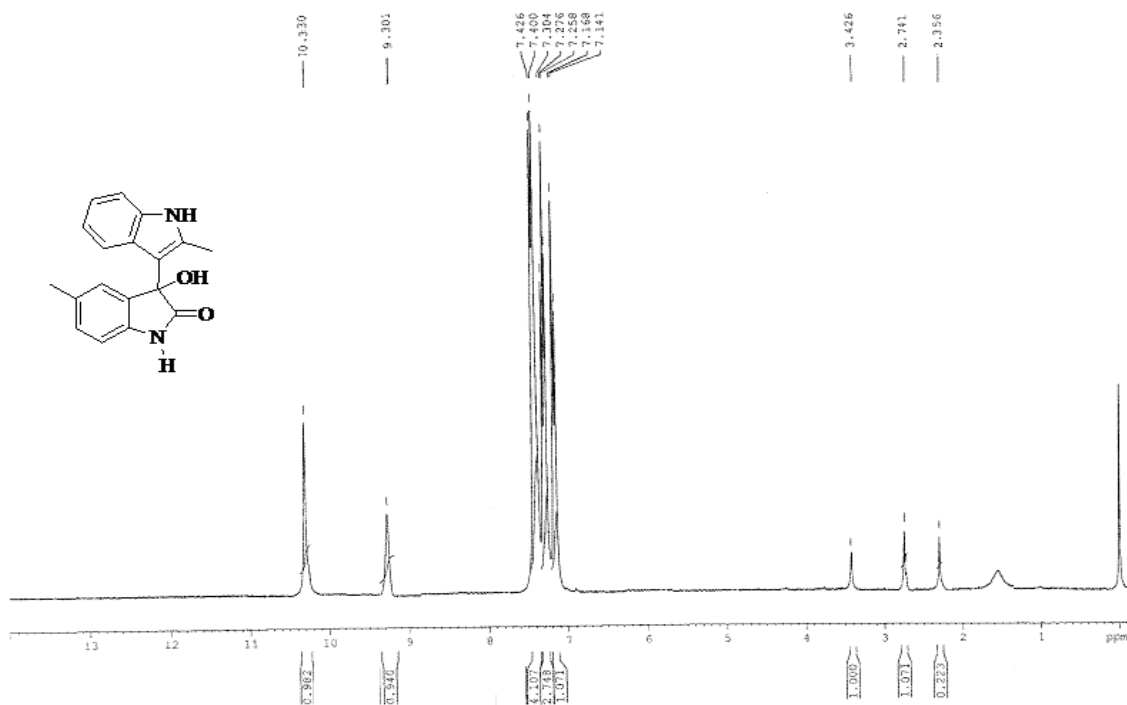
IR Of 3h

Indian Institute of Chemical Technology, Hyderabad FTIR Analysis Report



¹H-NMR of 3h

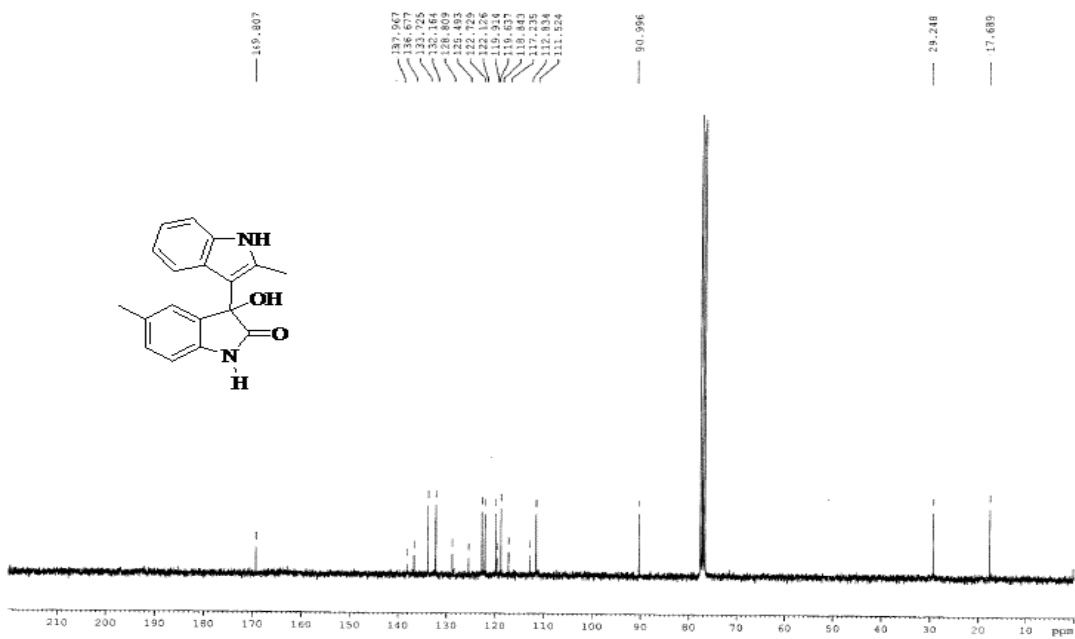
C/1, 1H-CDC13
130414304



¹³C-NMR of 3h

A6, 13C-CDC13
011014004

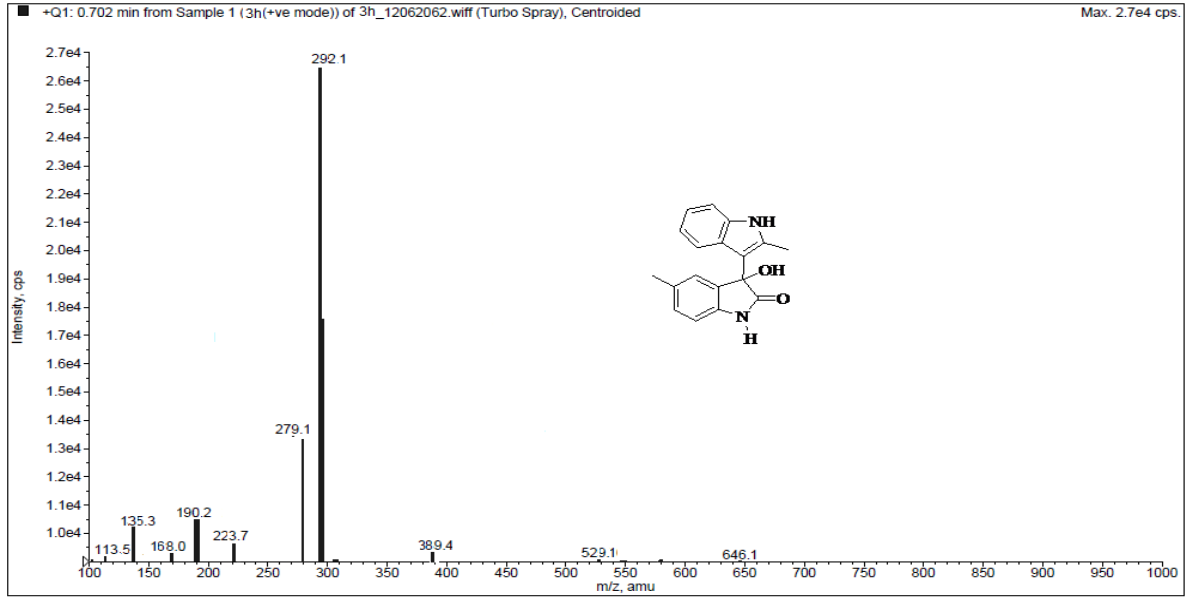
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MS of 3h

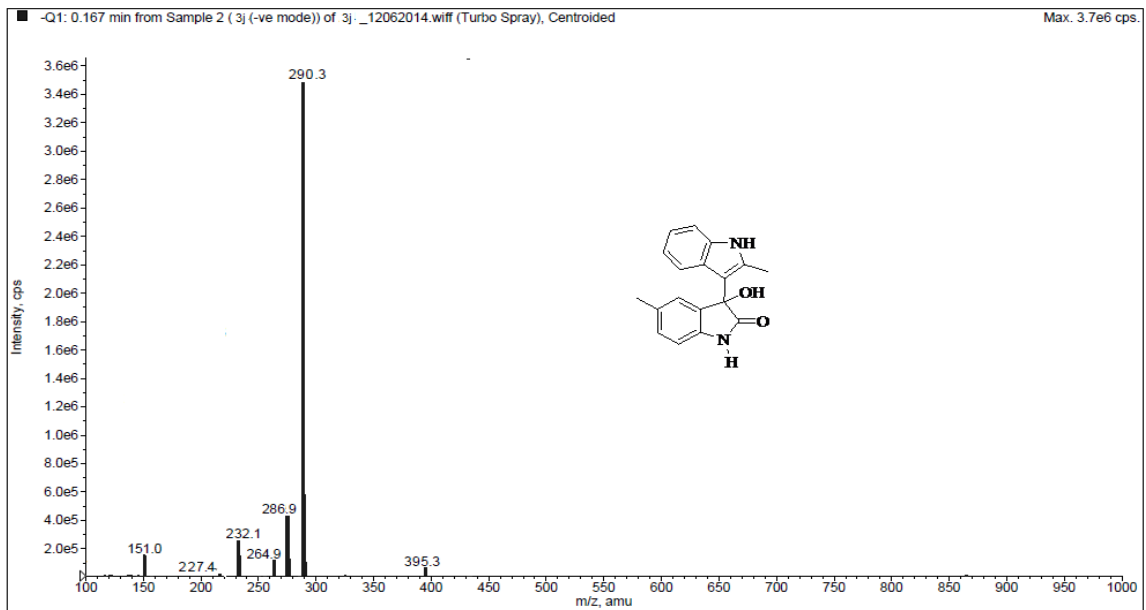
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Acq. File: 3h_12062014.wiff

Acq. Time: 11:14

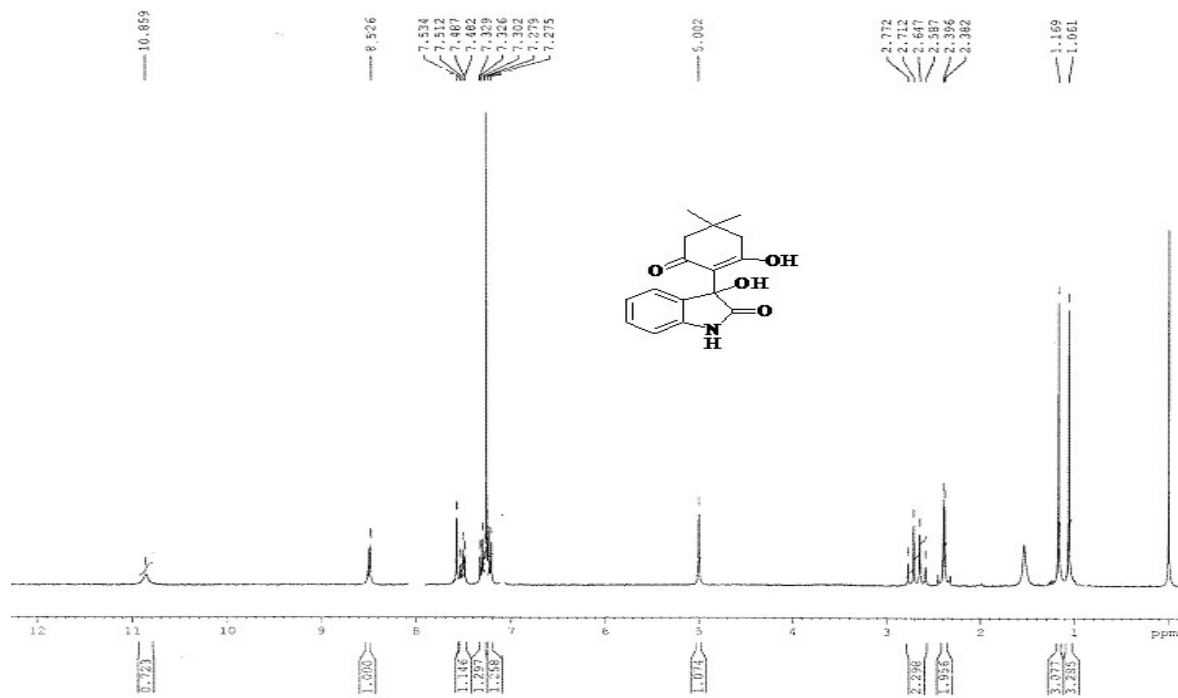


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Acq. Date: June 2020
Acq. File: 3j_12062014.wiff

Acq. Time: 11:06

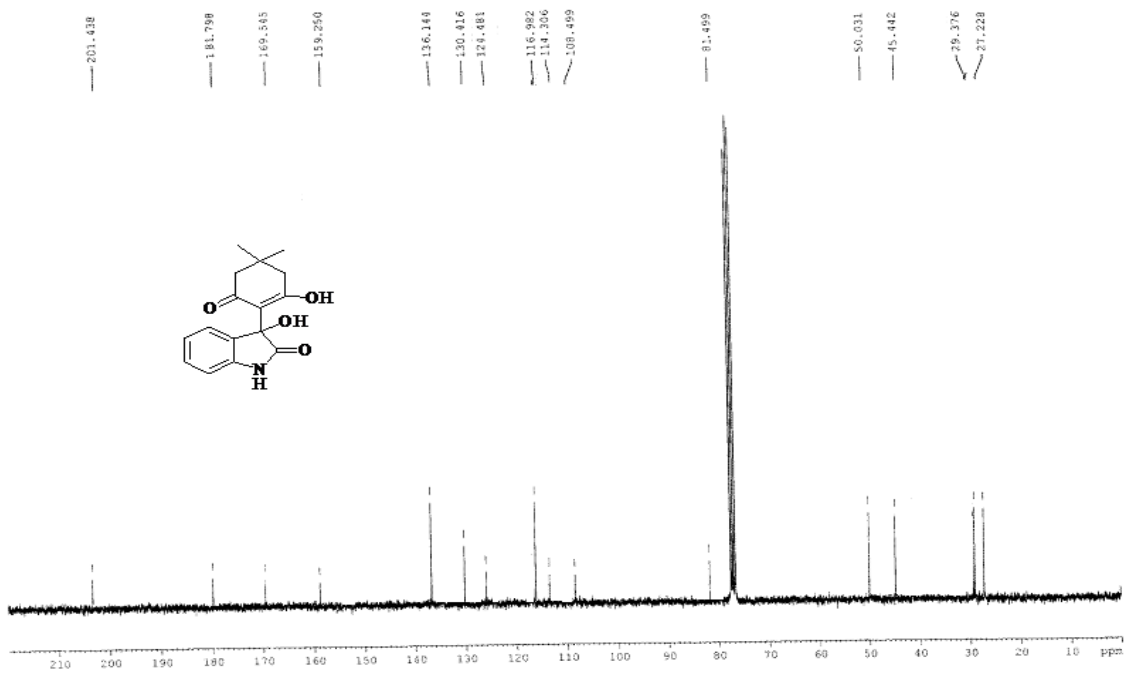


¹H NMR of 3i



¹³C NMR of 3i

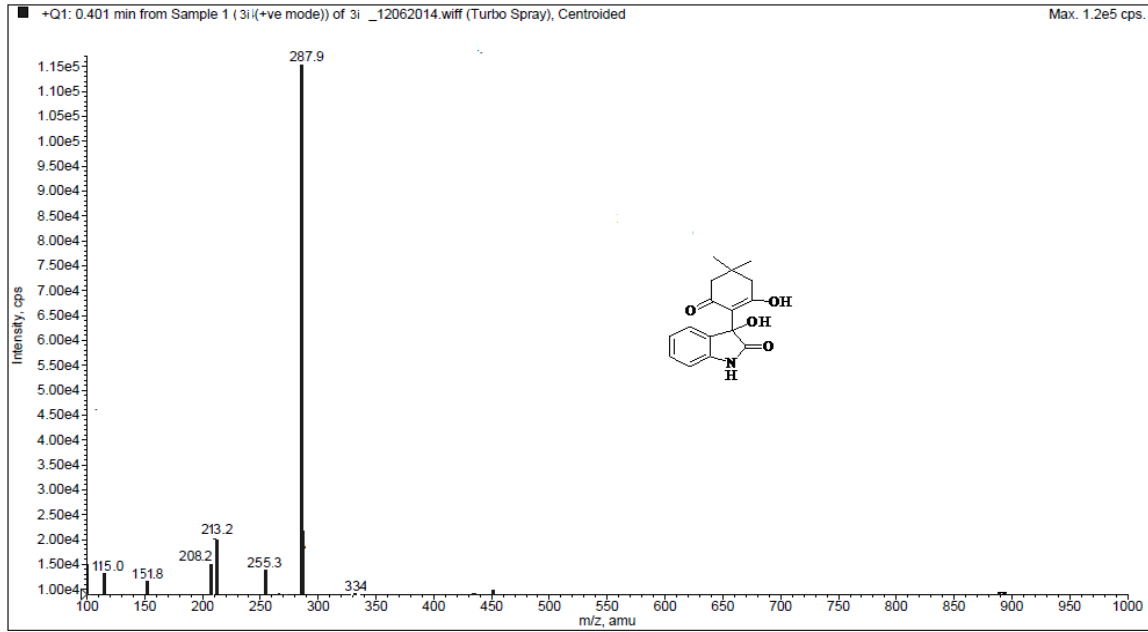
A1, ¹³C-CDCl₃
12061400.4



MS of 3i

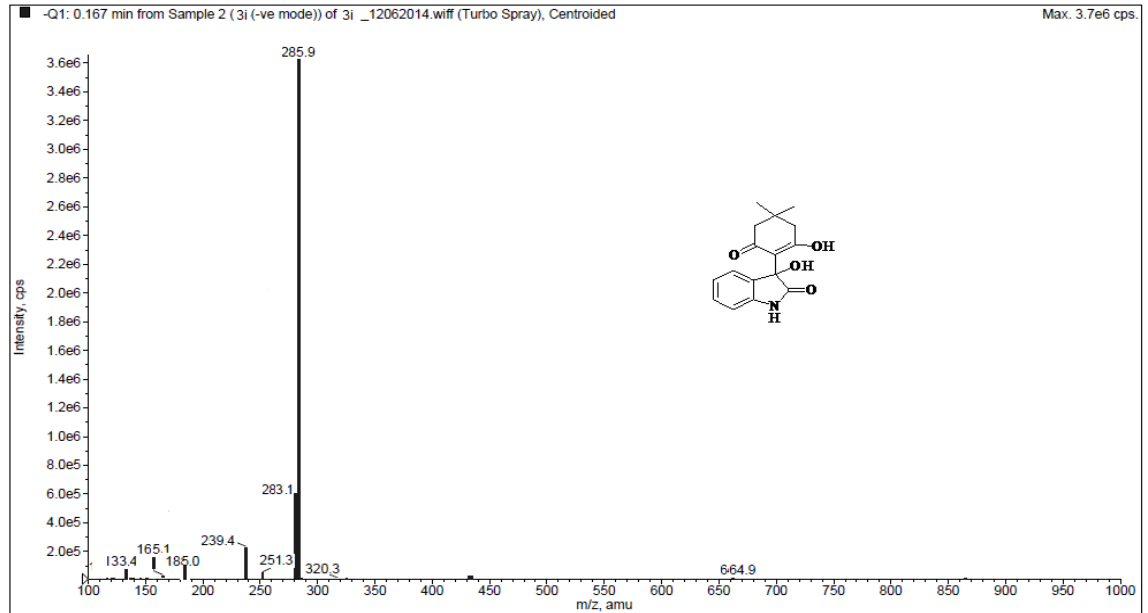
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Acq. Time: 11:24



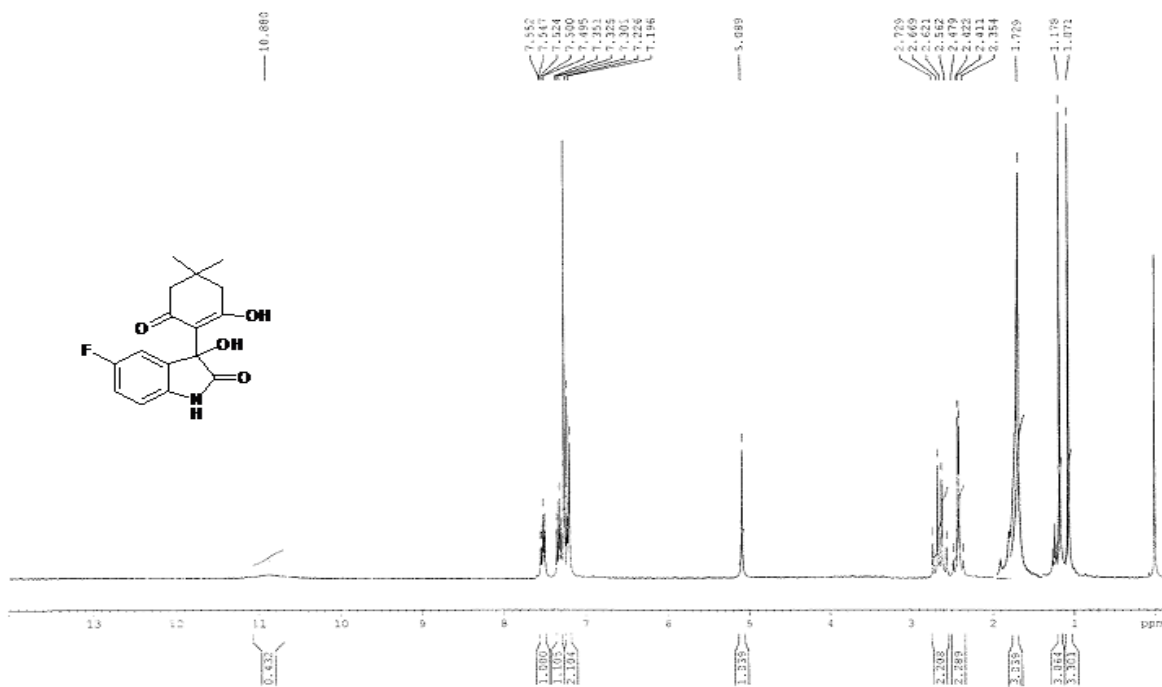
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Acq. Time: 11:26



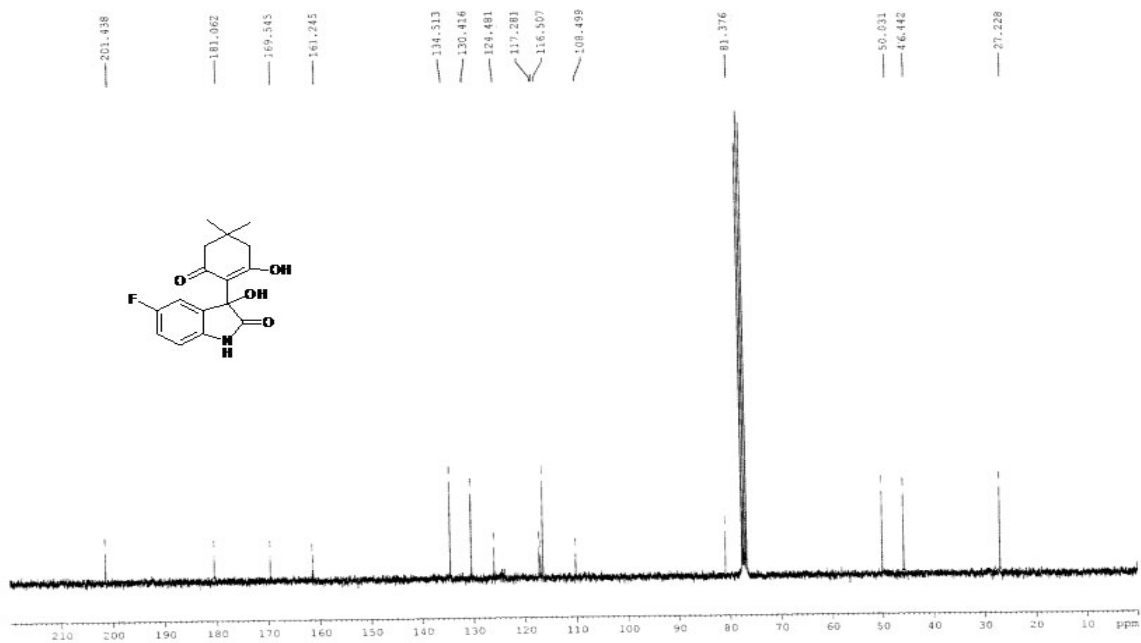
¹H-NMR of 3J

A4, 1H-CDCl3
100514007



¹³C-NMR of 3j

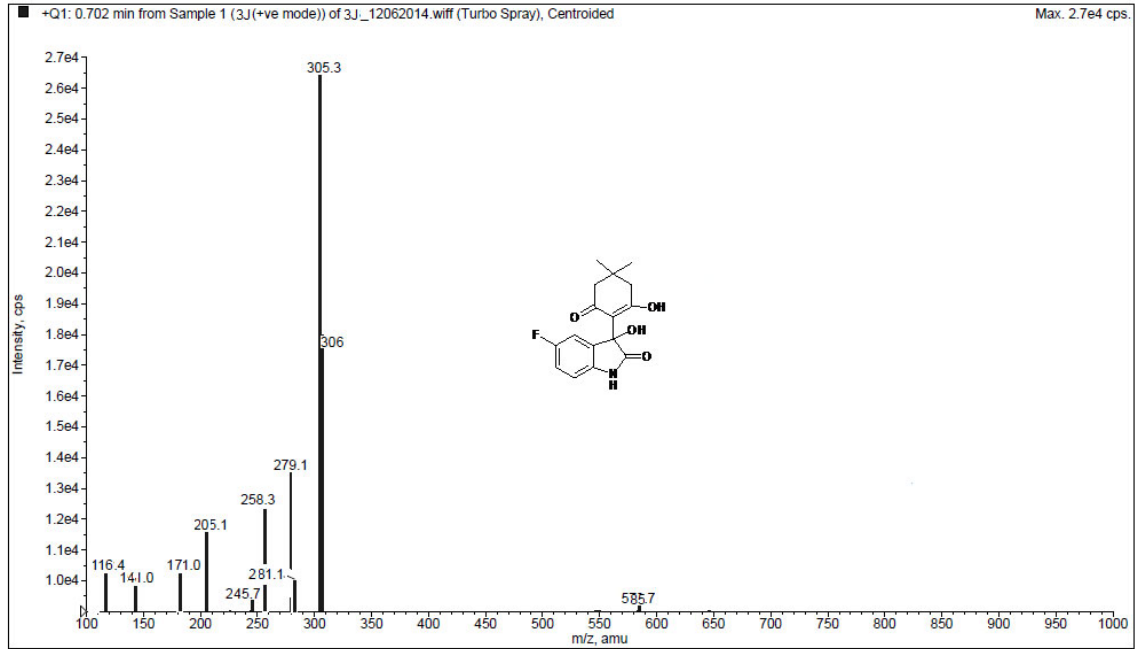
A3, 13C-CDCl3
120614007



MS of 3J

Sample Name: 3J (+ve mode)
Acq. Date: June 2020
Acq. File: 3J_12062006.wiff

Acq. Time: 12:08



Sample Name: 3J (-ve mode)
Acq. Date: June 2020
Acq. File: 3J_12062012.wiff

Acq. Time: 11:21

