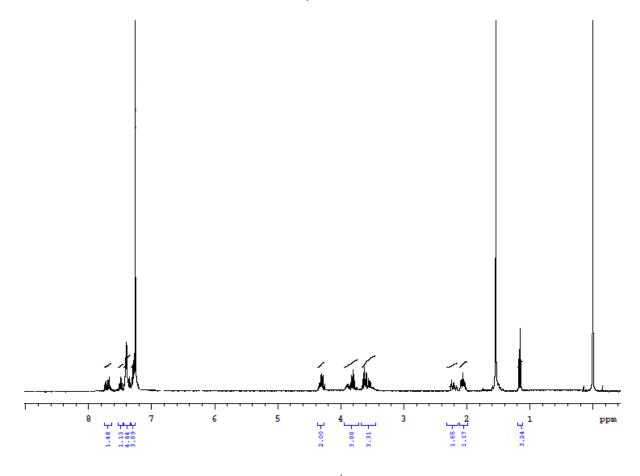
Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2014

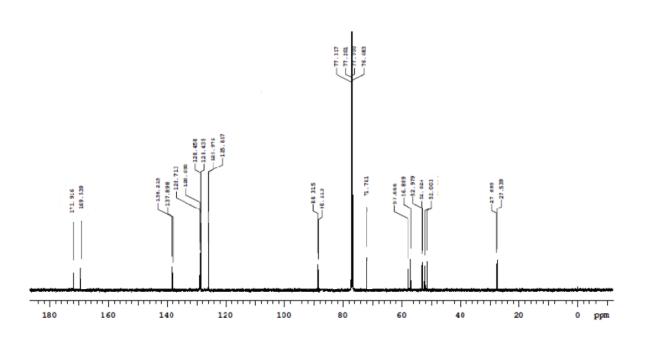
Pyrrolidine and piperidine based chiral spiro and fused scaffolds via Build/Couple/Pair approach

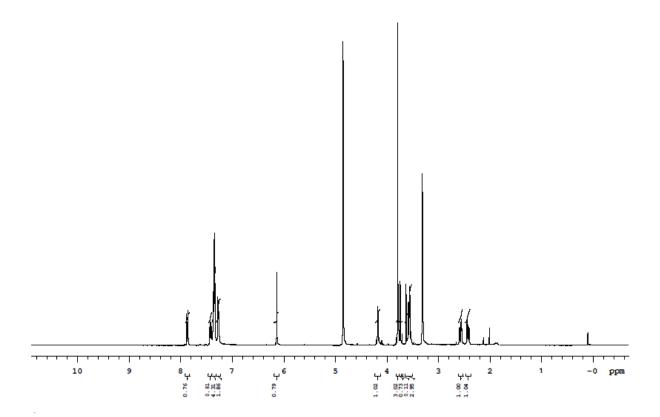
Rajinikanth Mamidala, ^b Surendra V. Damerla ^b, Rambabu Gundla ^b, Maringanti. T.

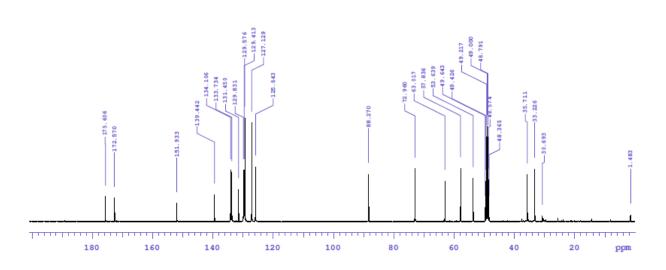
Chary^c, Y. L. N. Murthy^d, and Subhabrata Sen^a*

Department of Chemistry, Shiv Nadar University, Dadri, UP, India
 GVKBioscience, 28A IDA Nacharam, Hyderabad, AP, India.
 JNTU-H College, Nachupally, Karimnagar, AP, India
 Andhra University, Vishakhapatnam, AP, India.











ANALYTICAL REPORT-MCL-III **GVK BIOSCIENCES PVT LTD**

SAMPLE INFORMATION

le Name

DVS-NPR-22-P-1

0

103

on Volume :

10.00 ul

25.0 Minutes

Acquired By

System

Date Acquired

7/27/2011 7:39:45 AM ST

Proc. Chnl. Descr : PDA 215.0 nm

System Name:

ANL_MCL_HPLC_02

HPLC CONDITIONS

dumn

CHIRAL PAK IA 4.6 X 250mm, 5µm

lunm ID

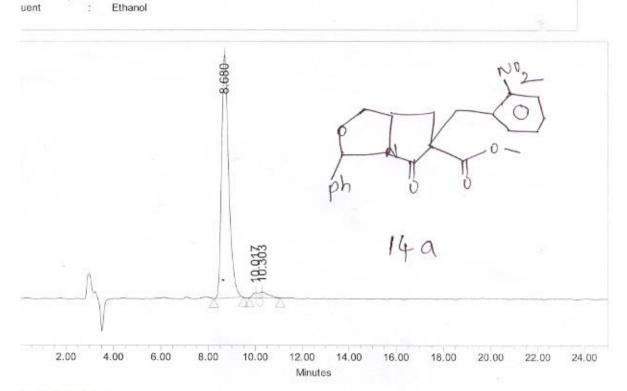
ANL_CHIRAL_110

bile Phase

D=0.1%TFA in n-HEXANE ,C =Ethanol

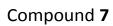
DCRATIC w Rate lumn Temp

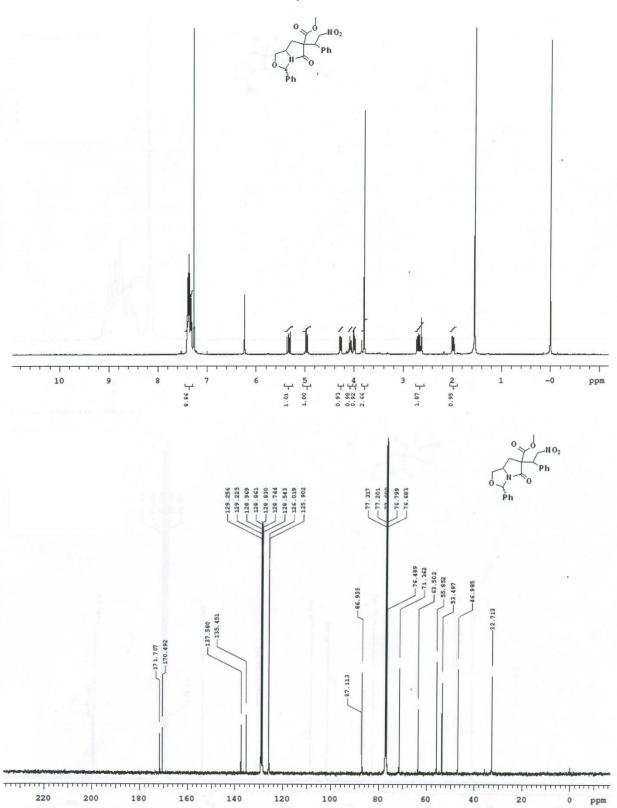
80:20 1.0 ml/min NA



Peak Results

r	Area	% Area
80	10713833	95.28
17	206880	1.84
03	323909	2.88





SAMPLE INFORMATION

Injection Volume :

15.00 ul

Proc. Chnl. Descr : PDA 215.0 nm

Run Time

25.0 Minutes

System Name:

ANL_MCL_HPLC_02

HPLC CONDITIONS

Column Colunm ID CHIRAL PAK IA 4.6 X 250mm, 5µm

Mobile Phase

ANL_CHIRAL_110 A= n-HEXANE ,B=IPA

ISOCRATIC

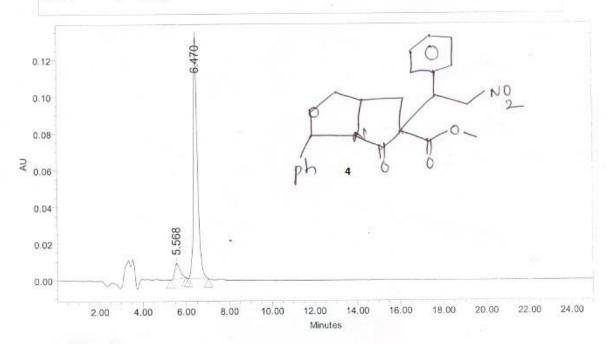
60:40

Flow Rate Column Temp :

1.0 ml/min NA

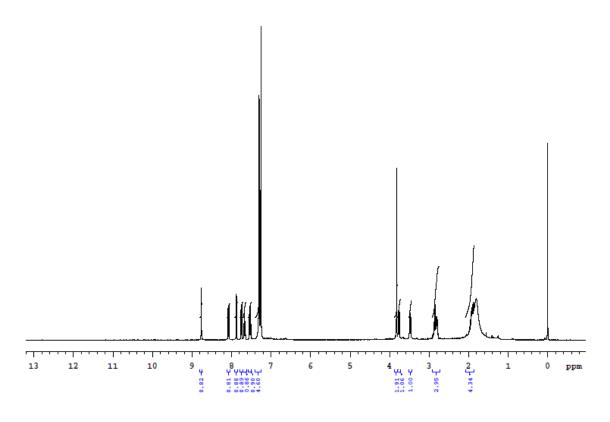
Diluent

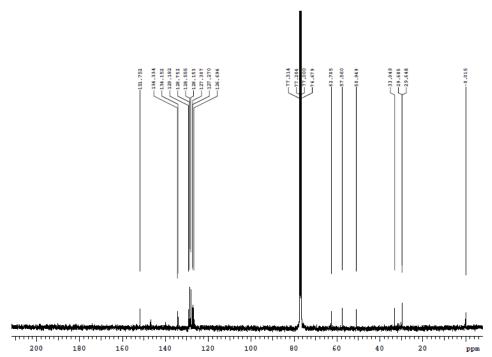
Ethanol

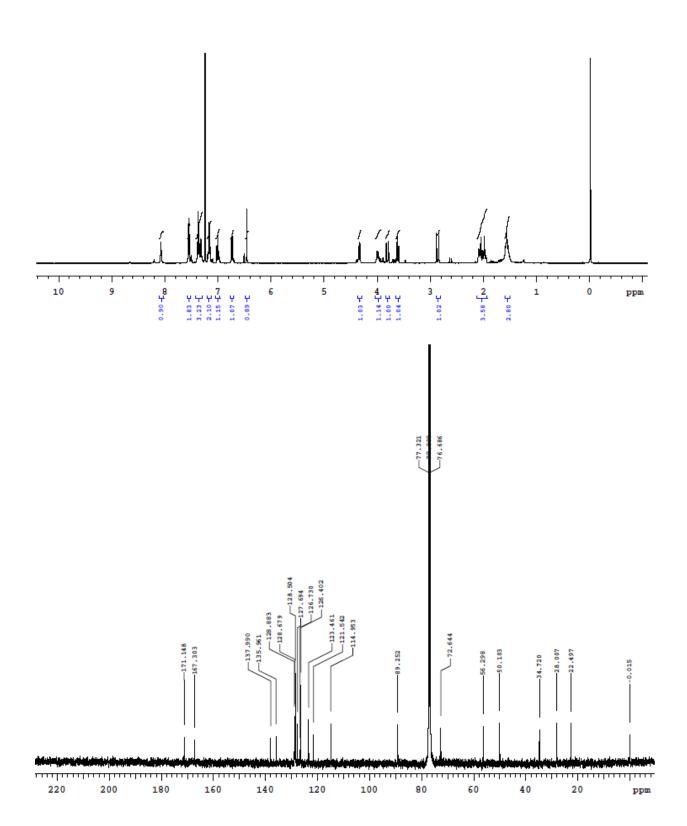


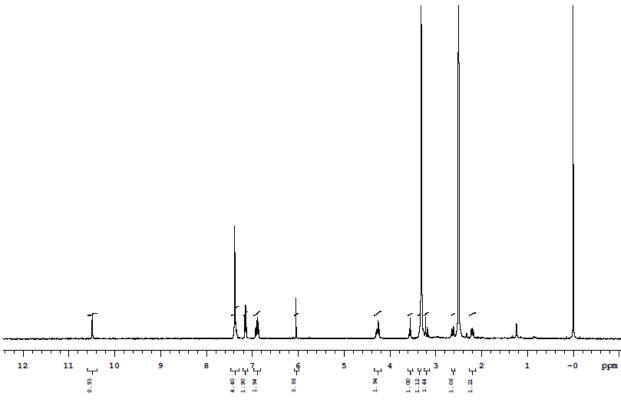
Peak Results

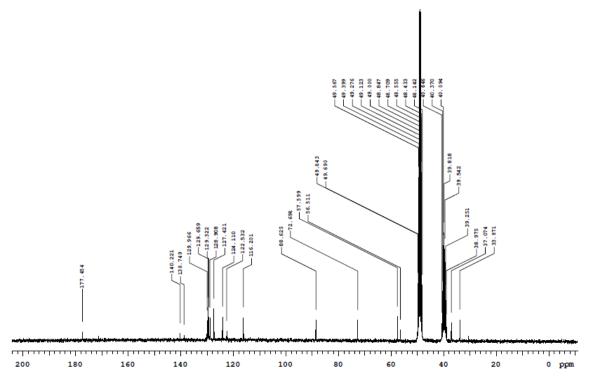
	RT	Area	% Area
1	5.568	143303	7.87
2	6.470	1677926	92.13

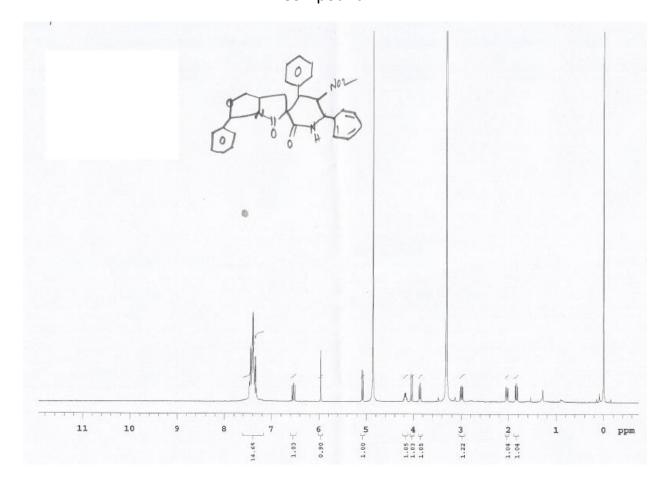


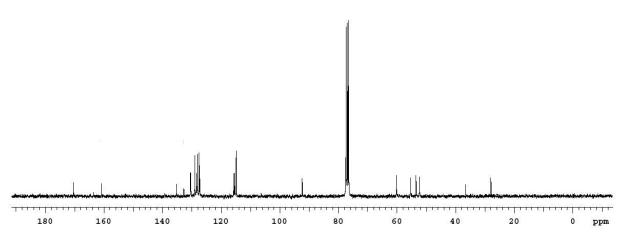


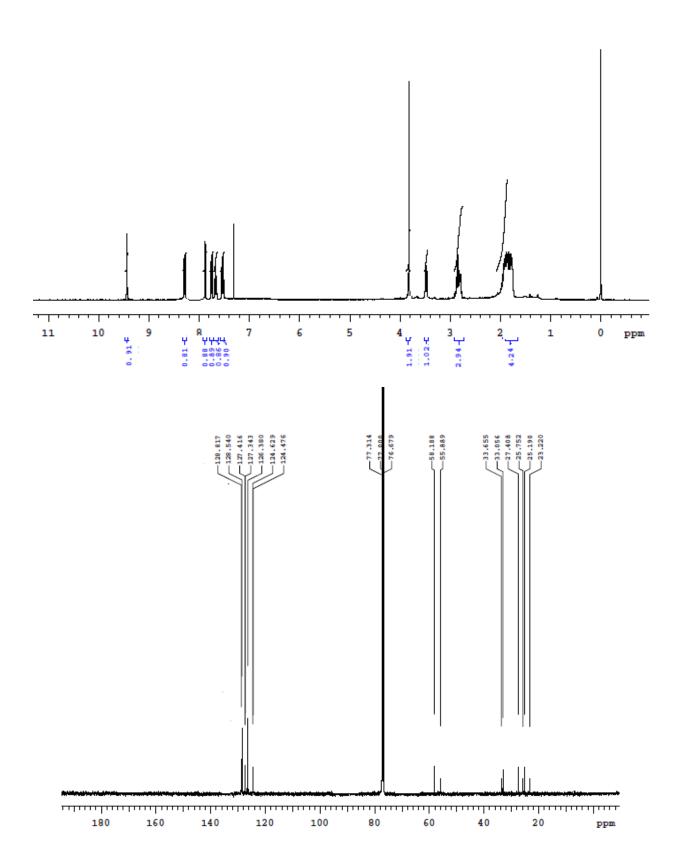


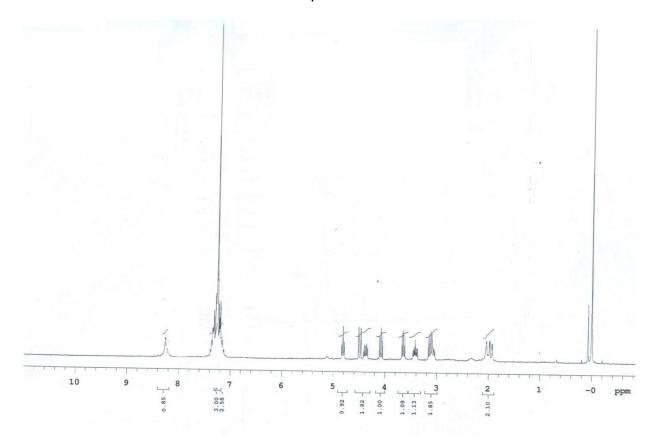


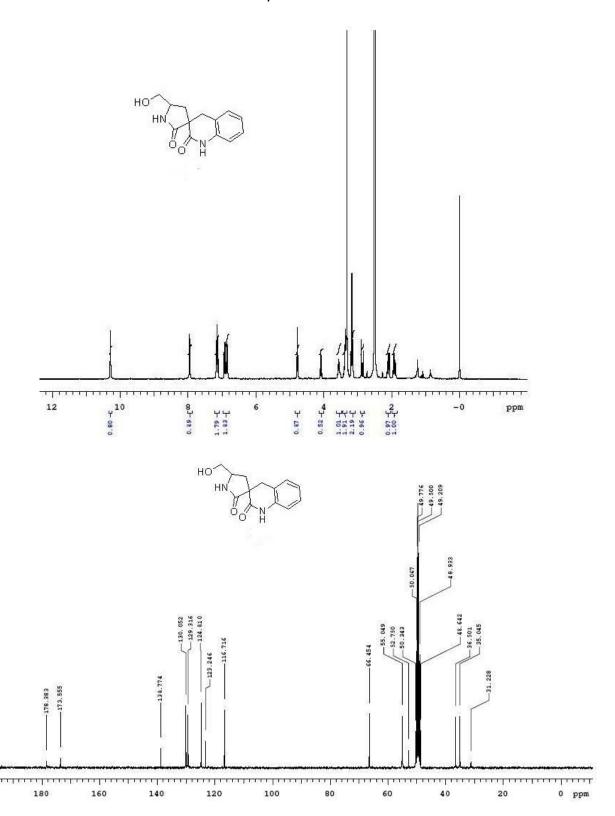














ANALYTICAL REPORT-MCL-III GVK BIOSCIENCES PVT LTD

SAMPLE INFORMATION

Sample Name : DVS-NPR-27-P Acquired By : System

Vial No : 104 Date Acquired : 7/27/2011 12:59:32 PM IST

Injection Volume : 15.00 ul Proc. Chnl. Descr : PDA 215.0 nm

Run Time : 25.0 Minutes System Name : ANL_MCL_HPLC_02

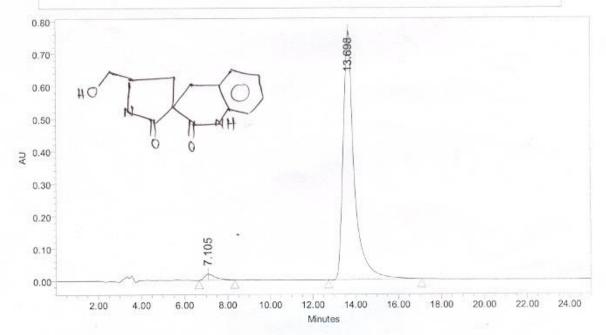
HPLC CONDITIONS

Column : CHIRAL PAK IA 4.6 X 250mm , 5µm

Column ID : ANL_CHIRAL_110

Mobile Phase : A= n-HEXANE ,B=IPA

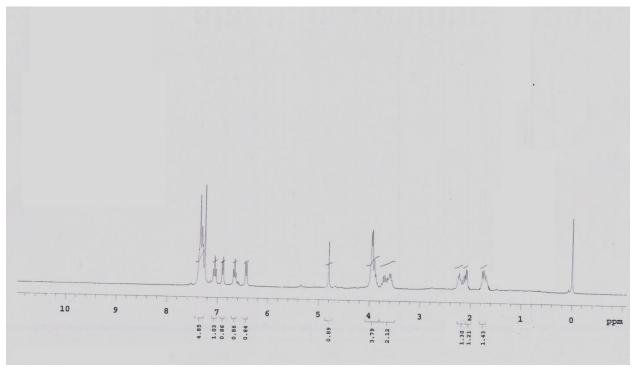
ISOCRATIC : 60:40
Flow Rate : 1.0 ml/min
Column Temp : NA
Diluent : Ethanol

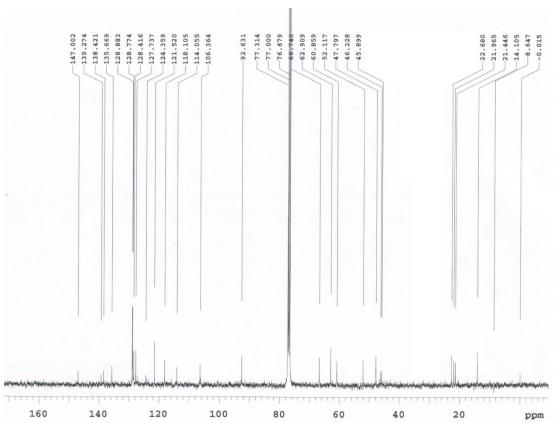


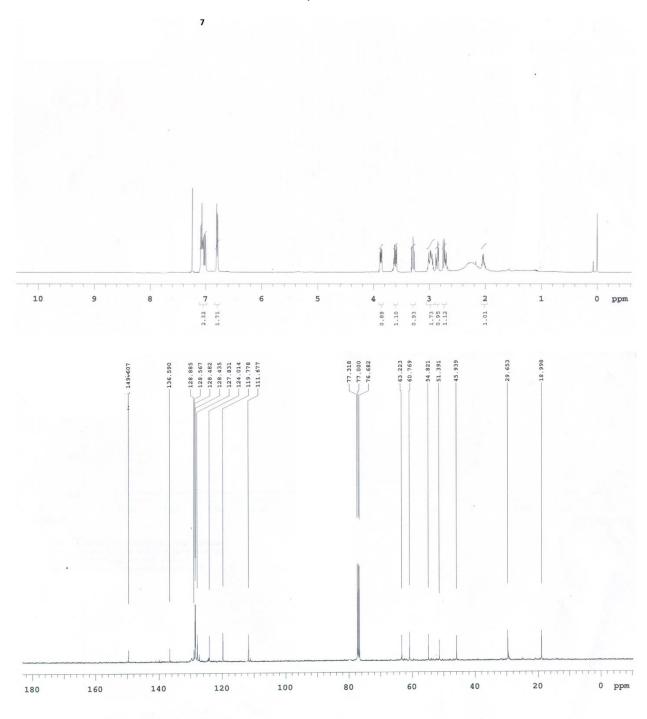
Peak Results

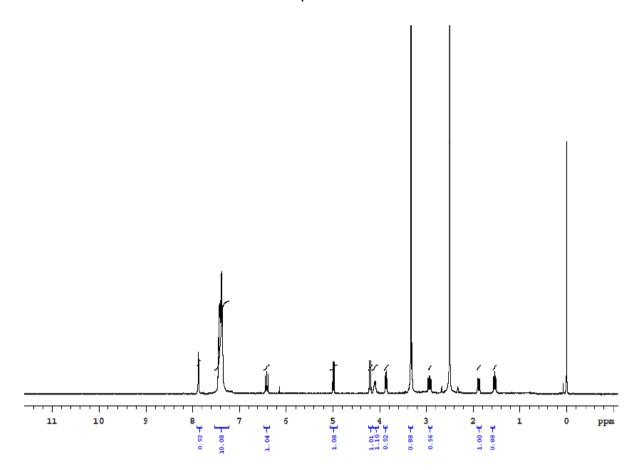
	RT	Area	% Area
1	7.105	682433	2.42
2	13.698	27508018	97.58

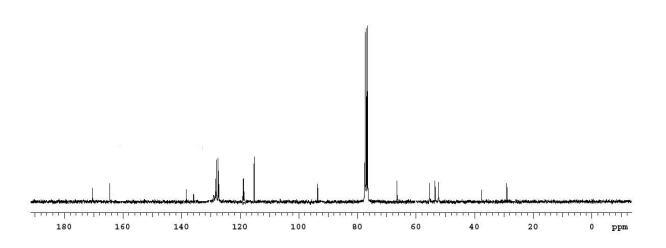
Compound **15a**











NOE of Compound 5 and 7

NOE of Compound 4

NOE of Compound 11 (also refer the NOESY, DQCOSY and HSQC data below)

