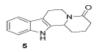
Diverse synthesis of natural product inspired fused and spiro-heterocyclic scaffolds *via* ring distortion and ring construction strategy

Chandramohan Bathula, <sup>1, §</sup> Poonam Dangi, <sup>2, §</sup> Santanu Hati, <sup>1</sup> Rahul Agarwal, <sup>2</sup> Parthapratim Munshi, <sup>1</sup> Shailja Singh<sup>2</sup> and Subhabrata Sen <sup>1, \*</sup>.

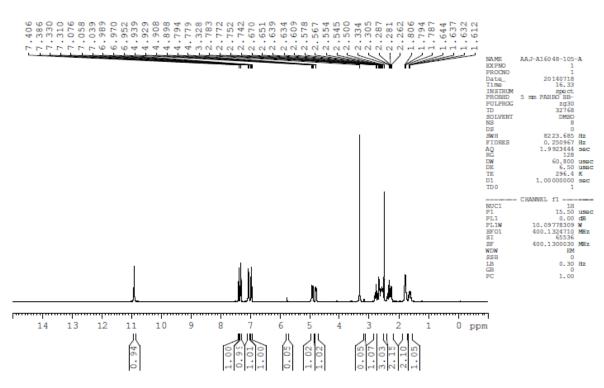
<sup>1</sup> Department of Chemistry, Shiv Nadar University, Post Office Shiv Nadar University, Gautam Buddha Nagar, Uttar Pradesh 201314, India

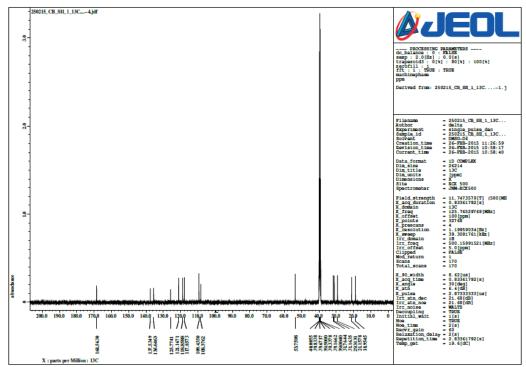
<sup>2</sup> Department of Life Science, Shiv Nadar University, Post Office Shiv Nadar University, Gautam Buddha Nagar, Uttar Pradesh 201314, India

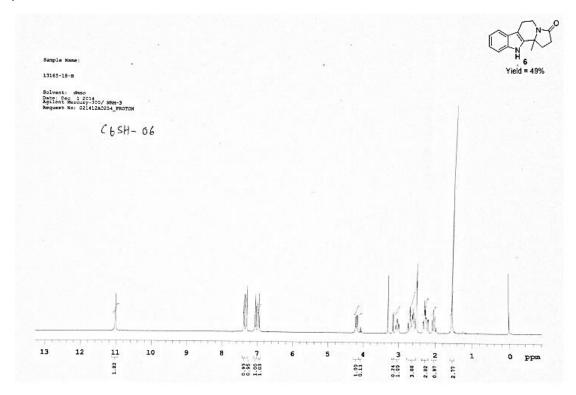
<sup>§</sup> Equal contributor

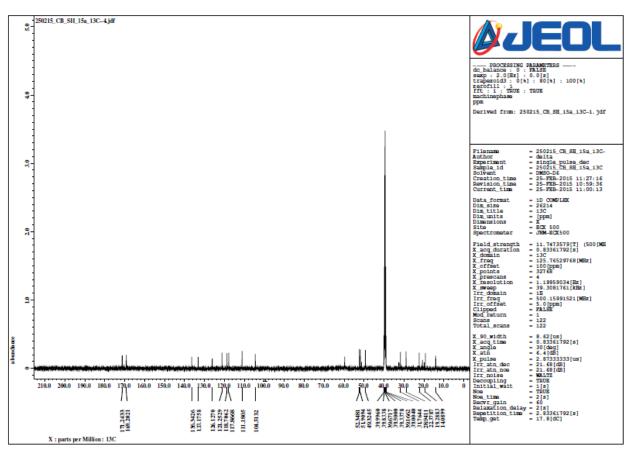


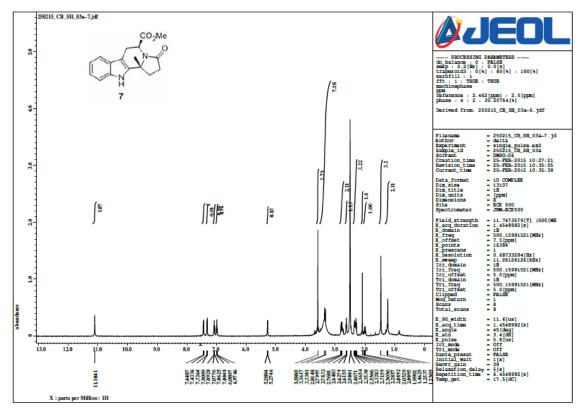
AAJ-A16048-105-A DMSO

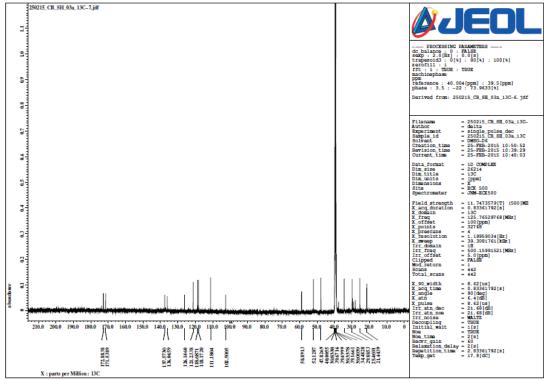


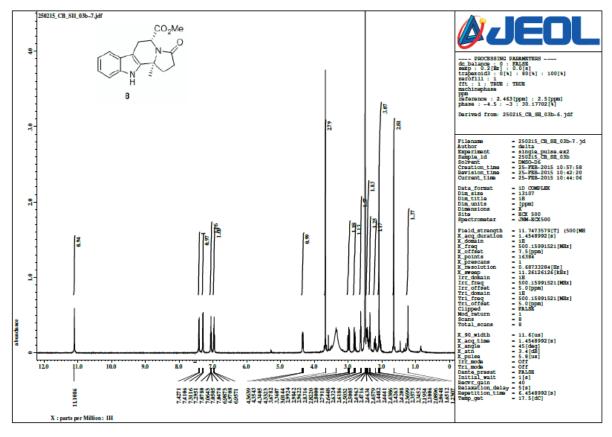


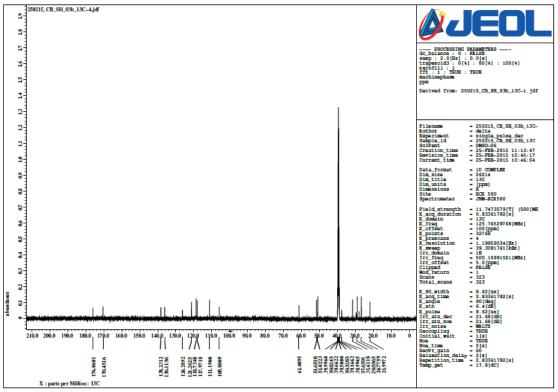


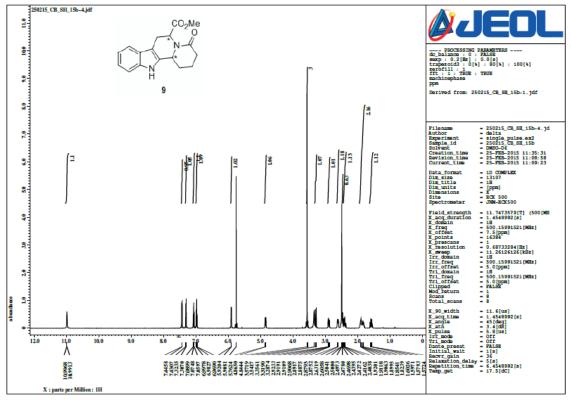


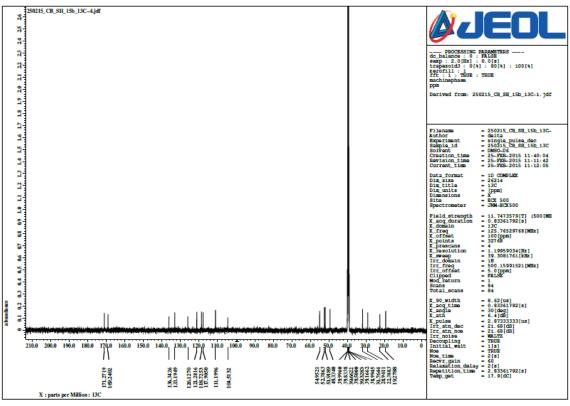






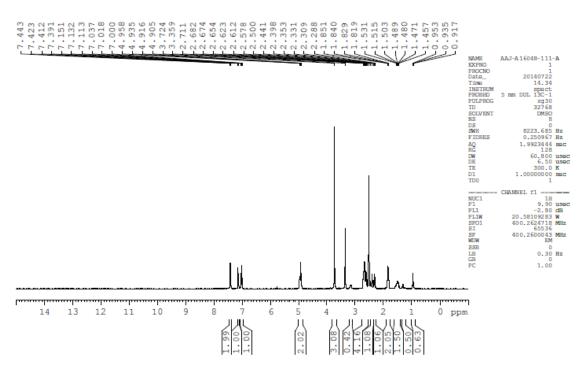


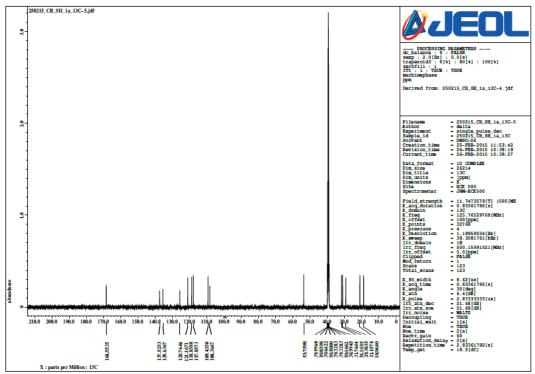


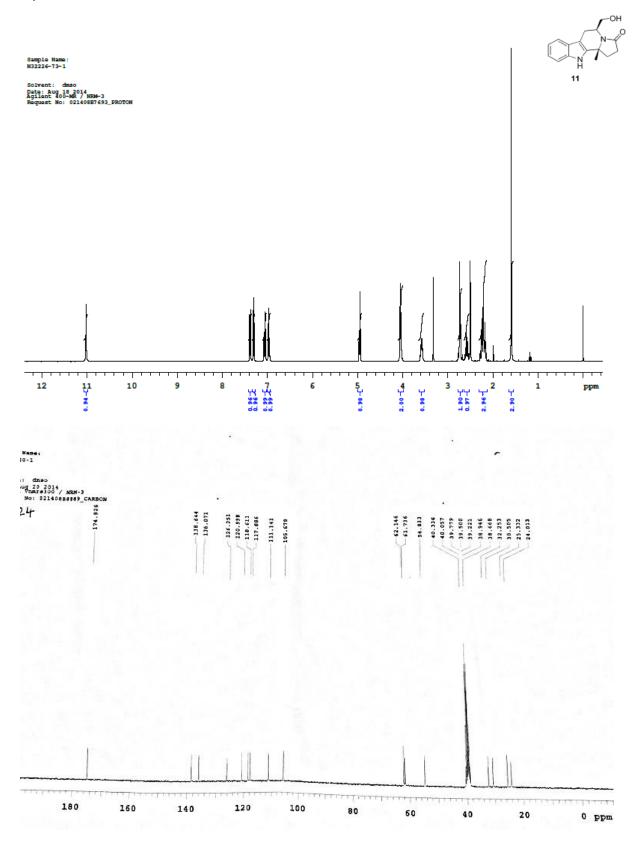




AAJ-A16048-111-A DMSO

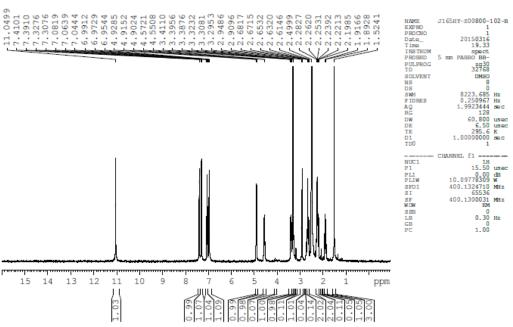


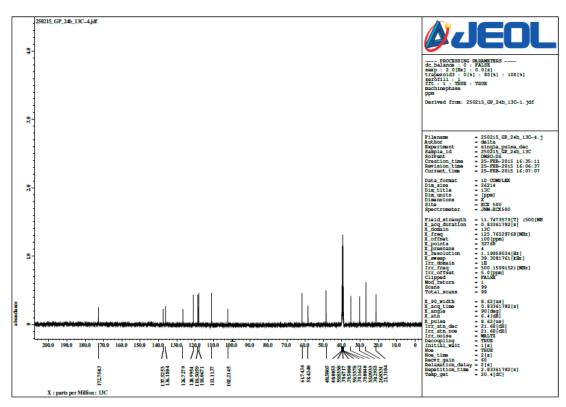


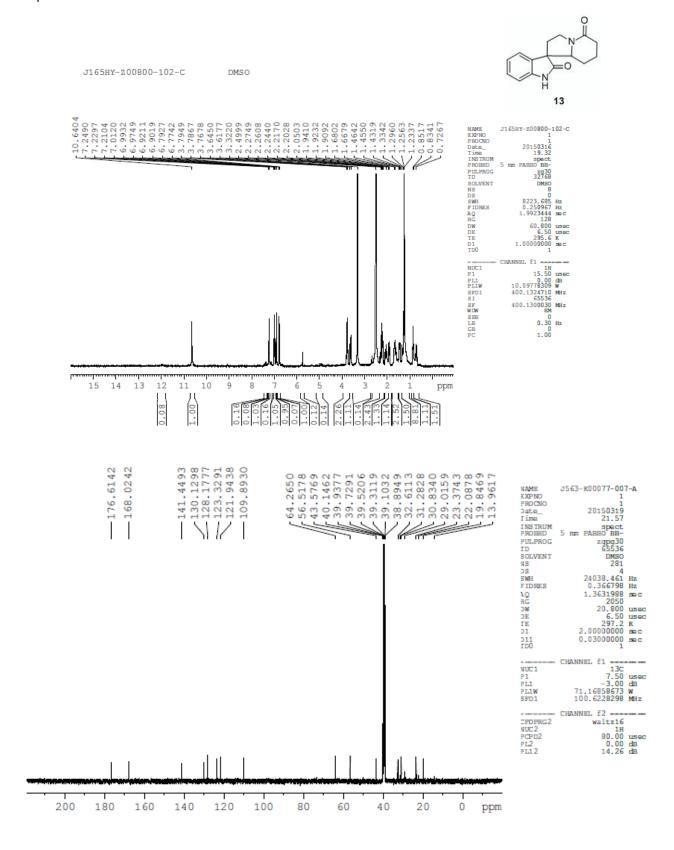


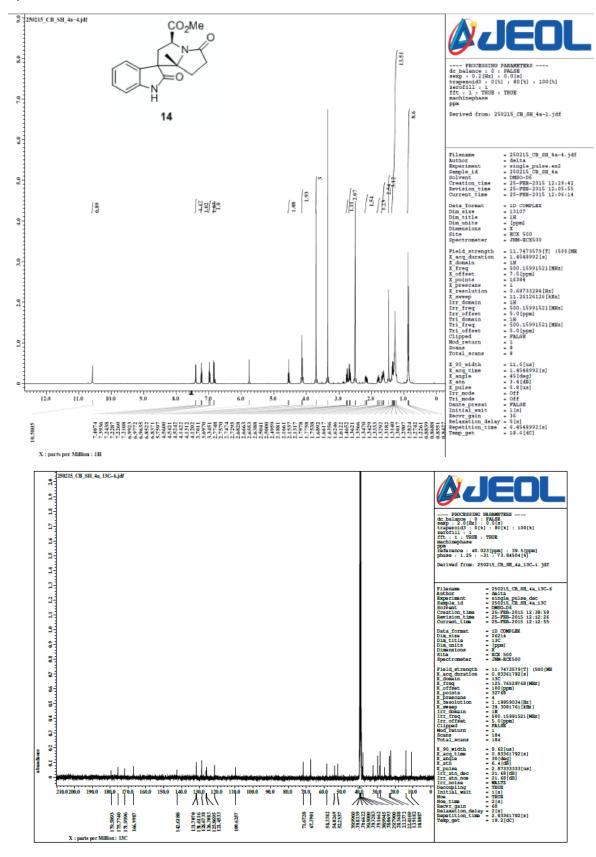
J165HY-Z00800-102-B DMSO



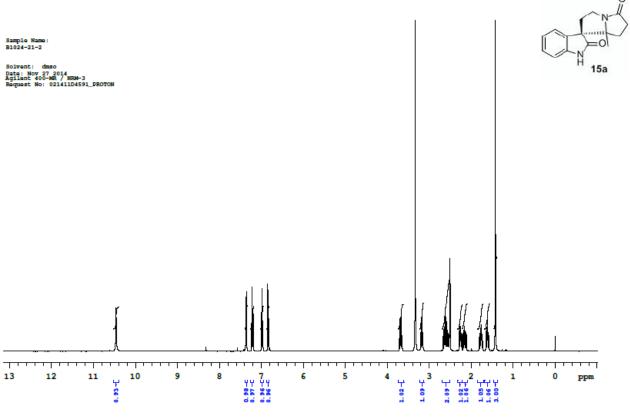


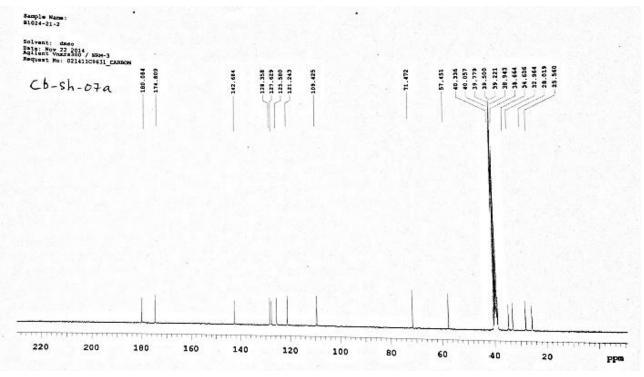




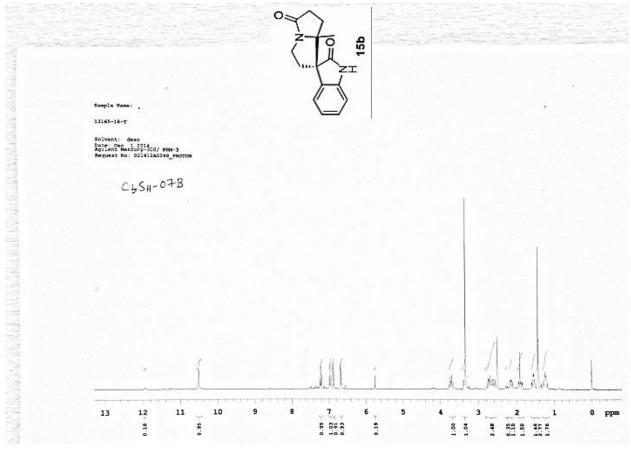


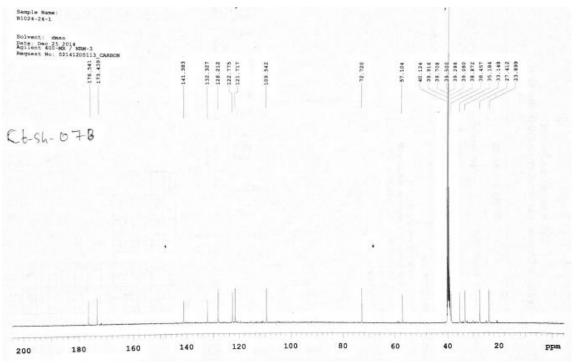
## Compound 15a





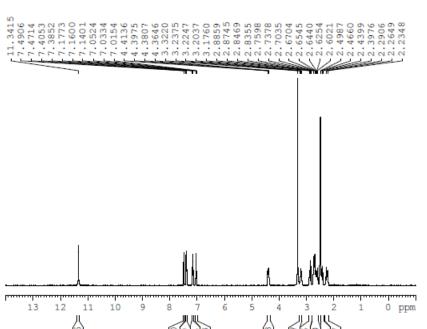
# Compound 15b







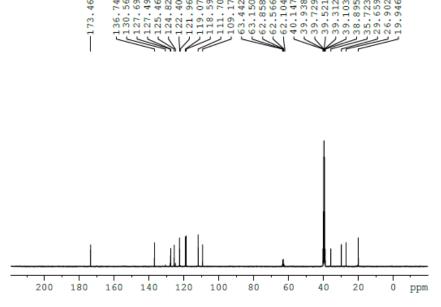
AAJ-A16048-125-A



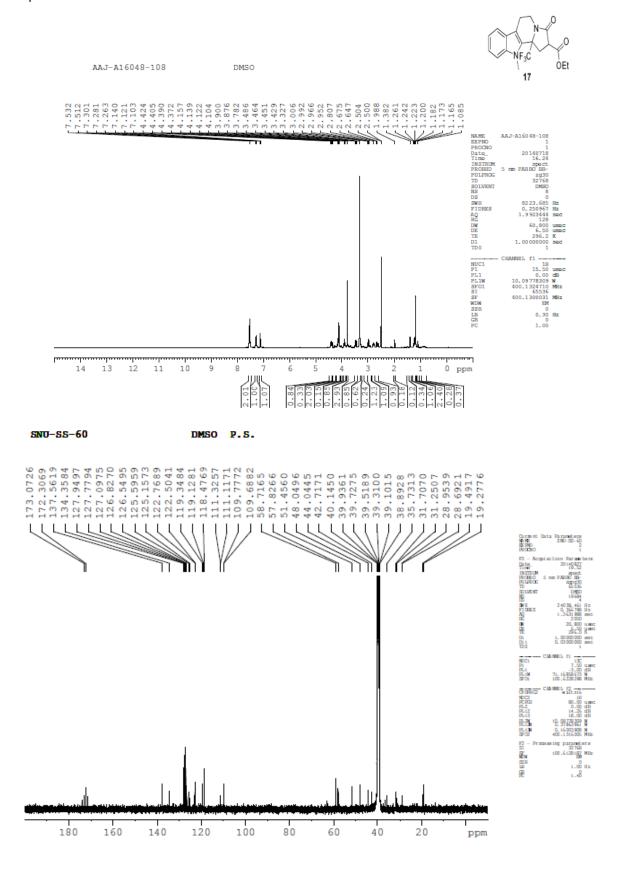
DMSO

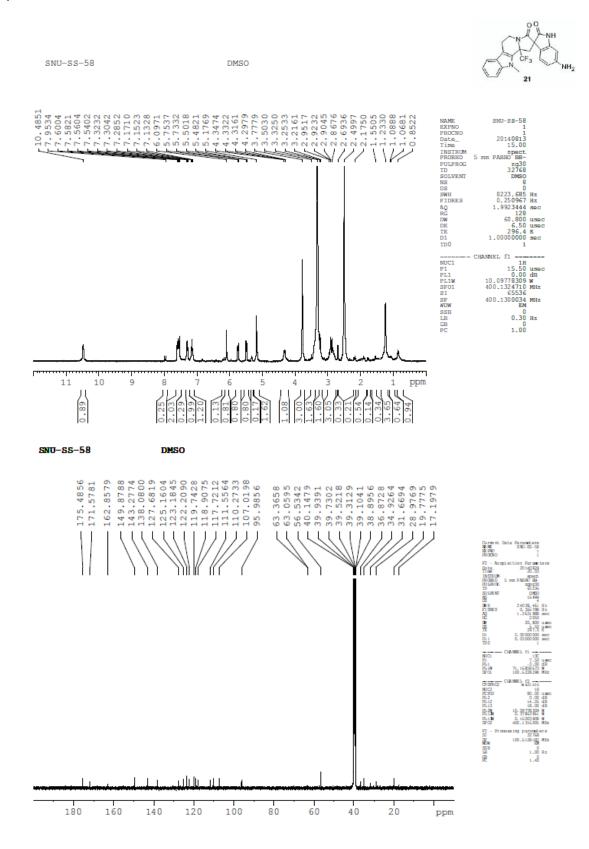
NAME	AAJ-A16048-125-	- n
EXPNO	1	^
PROCNO	1	
Date_	20140814	
Time	18.04	
INSTRUM	spect	
PROBHD	5 mm PABBO BB-	
PULPROG	zg30	
TD	32768	
SOLVENT	DMSO	
NS	0	
DS	ñ	
SWH	8223,685	Hz
	0.250967	
FIDRES		Hz
AQ	1.9923444	592 C
RG	128	
DW	60.800	
DE	6.50	USGC
TE	296.4	K
D1	1.00000000	
TDO	1	
	-	
	CHANNEL f1	
NUC1		
	111	
	1H	
P1	15.50	usec
P1 PL1	15.50 0.00	usec
P1 PL1 PL1W	15.50 0.00 10.09778309	usec dB W
P1 PL1 PL1W SFO1	15.50 0.00 10.09778309 400.1324710	usec
P1 PL1 PL1W	15.50 0.00 10.09778309	usec dB W
P1 PL1 PL1W SFO1	15.50 0.00 10.09778309 400.1324710	usec dB W MHz
P1 PL1 PL1W SFO1 SI	15.50 0.00 10.09778309 400.1324710 65536	usec dB W MHz
P1 PL1 PL1W SF01 SI SF WDW	15.50 0.00 10.09778309 400.1324710 65536 400.1300035	usec dB W MHz
P1 PL1 PL1W SFO1 SI SF WDW SSB	15.50 0.00 10.09778309 400.1324710 65536 400.1300035 EM 0	usec dB W MHz MHz
P1 PL1W SF01 SI SF WDW SSB LB	15.50 0.00 10.09778309 400.1324710 65536 400.1300035 EM 0	usec dB W MHz
P1 PL1 PL1W SF01 SI SF WDW SSB LB GB	15.50 0.00 10.09778309 400.1324710 65536 400.130003 EM 0 0.30	usec dB W MHz MHz
P1 PL1W SF01 SI SF WDW SSB LB	15.50 0.00 10.09778309 400.1324710 65536 400.1300035 EM 0	usec dB W MHz MHz
P1 PL1 PL1W SF01 SI SF WDW SSB LB GB	15.50 0.00 10.09778309 400.1324710 65536 400.130003 EM 0 0.30	usec dB W MHz MHz

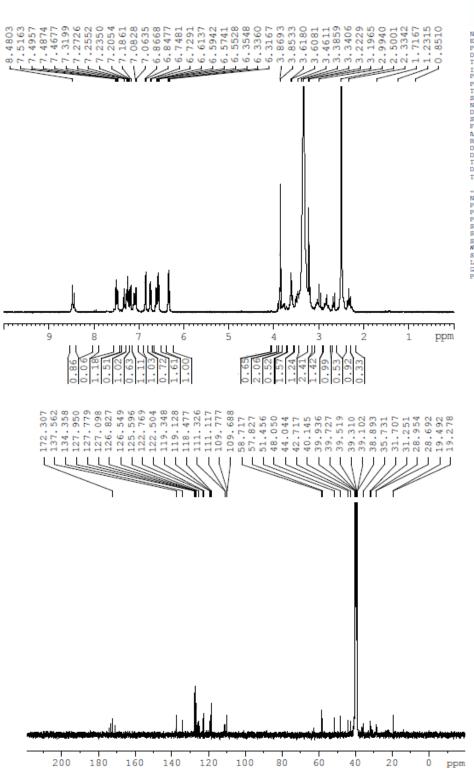
SNU-SS-52 DMSO

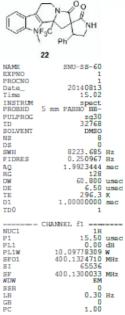


NAME	SNU-88-52		
EXPNO	2		
PROCNO	1		
Date_	20140819		
Time	16.01		
INSTRUM	spect		
PROBHD	5 mm PABBO BB-		
PULPROG	zgpg30		
TD	65536		
SOLVENT	DMSO		
NS	1024		
DS	4		
SWH FIDRES	24038.461		
	1.3631988		
AQ RG	1.3631988		
DW	20.800		
DE		USE C	
TE	298.5		
DI	2.00000000		
D11	0.03000000		
TDO	1		
	CHANNEL fl		
NUC1	13C		
P1		USR C	
PL1	-3.00		
PLIW	71.16858673		
SFO1	100.6228298	MHz	
CHANNEL f2			
CPDPRG2	Waltz16		
NUC2	Waltzie 1H		
PCPD2	80.00		
PLPD2	0.00		
PL12	14.26		
	14.20	Same.	





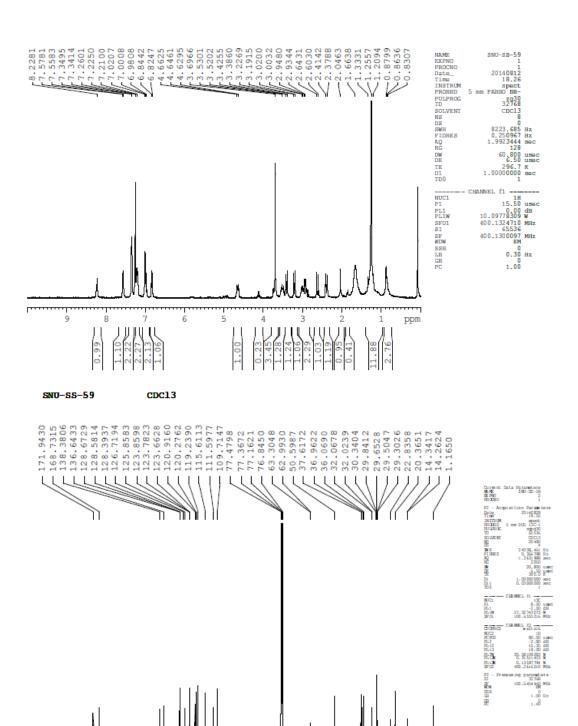






SNU-SS-59 CDC13





ppm