

Figure S1. *Alkterlactone (1)*:
HR-ESI-MS: m/z 396.1424 [M+H]⁺

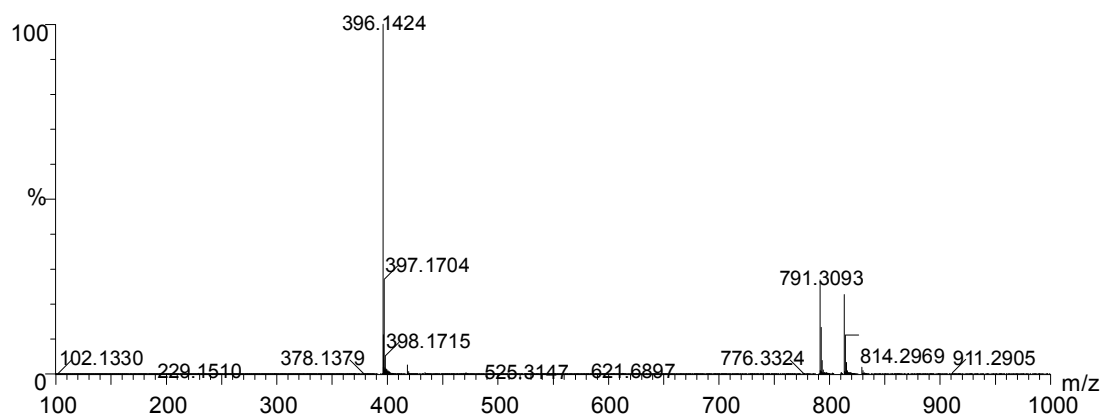


Figure S1

Figure S2. *Alkterlactone (1)*:
¹H-NMR

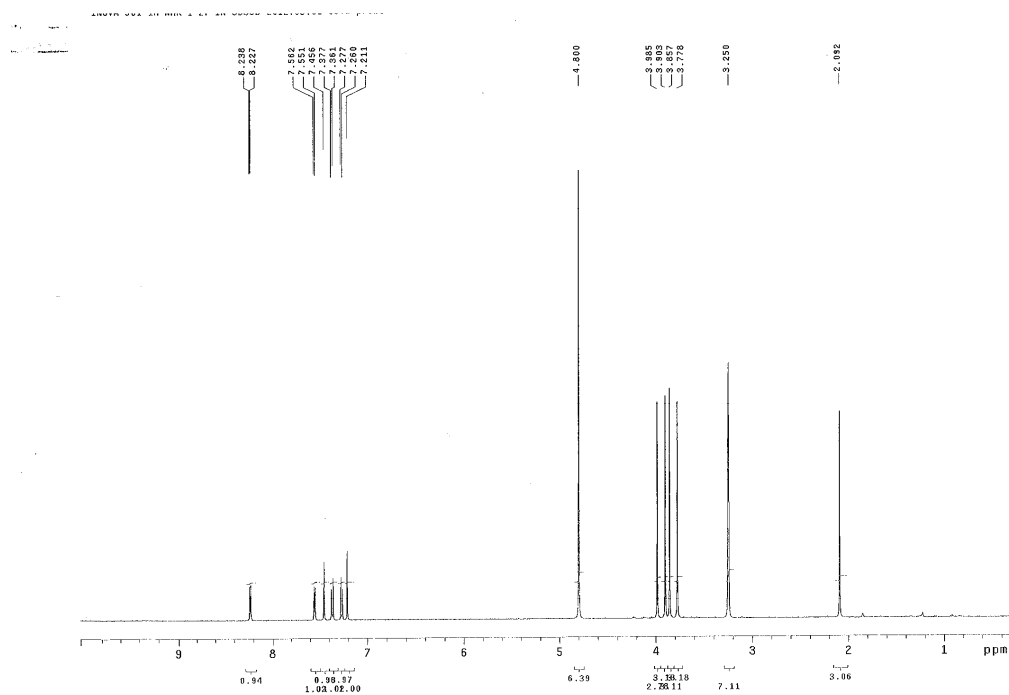


Figure S2

Figure S3. *Alkterlactone (1)*:
¹³C-NMR

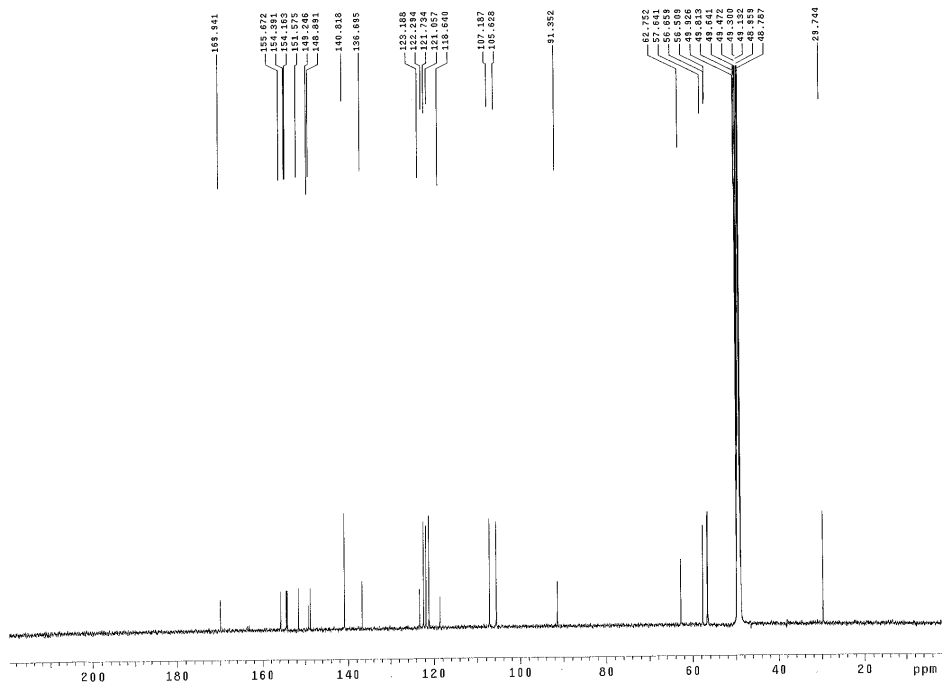


Figure S3

Figure S4. *Alkterlactone* (1):
DETP

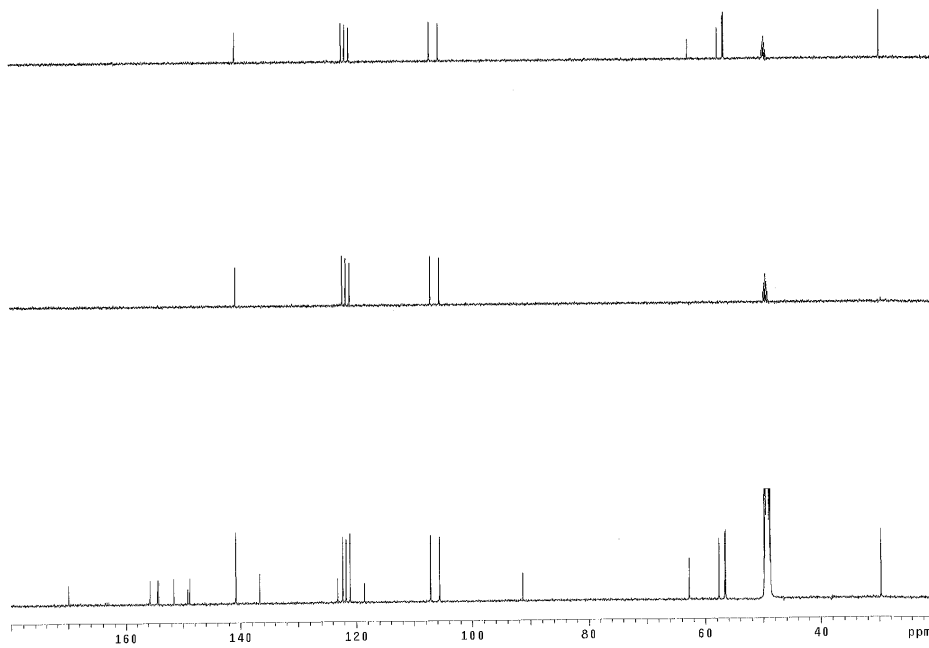


Figure S4

Figure S5. *Alkterlactone* (1):
 ^1H , ^1H -COSY

DD2-500 gCOSY I-27 IN cd3od May 23 2012 sw-Probe

Temp. 25.0 C / 298.1 K
Sample #3, Operator: vmr1
Relax. delay 1.000 sec
Acq. time 0.150 sec
Width 5252.1 Hz
2D Width 5252.1 Hz
8 repetitions
200 increments
OBSERVE H1, 499.7694512 MHz
DATA PROCESSING
Sine bell 0.075 sec
F1 DATA PROCESSING
Sine bell 0.038 sec
F1 size 2048 x 2048
Total time 32 min

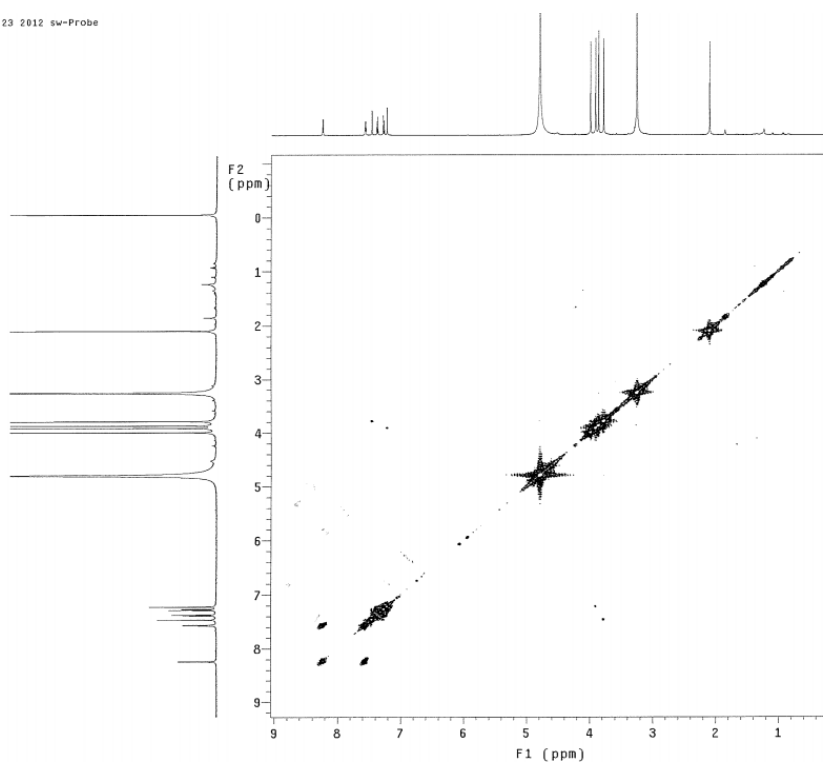


Figure S5

Figure S6. *Alkterlactone* (1):
HSQC

DD2-500 gHSQC I-27 IN cd3od May 23 2012 sw-Probe

Temp. 25.0 C / 298.1 K
Sample #3, Operator: vmr1
Relax. delay 1.000 sec
Acq. time 0.150 sec
Width 8012.8 Hz
2D Width 21361.8 Hz
32 repetitions
2 x 128 increments
OBSERVE H1, 499.7694514 MHz
DECOUPLE C13, 125.6765460 MHz
Power 38 dB
on during acquisition
off during delay
W40.0v modulated
DATA PROCESSING
Gauss apodization 0.062 sec
F1 DATA PROCESSING
Gauss apodization 0.006 sec
F1 size 4096 x 2048
Total time 2 hr, 43 min

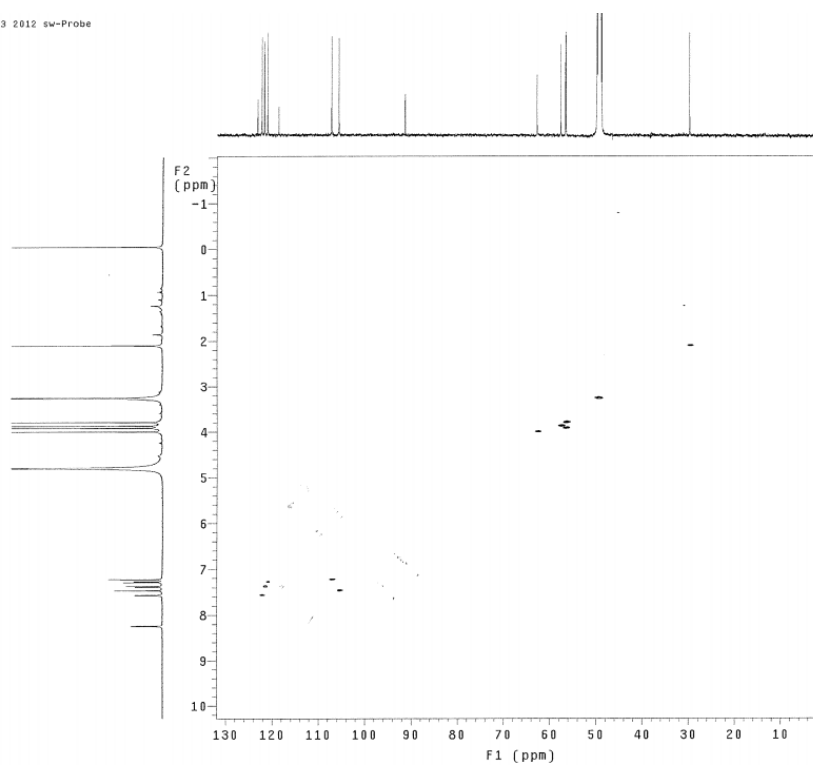


Figure S6

Figure S7. *Alkterlactone* (1):
HMBC

DD2-500 gHMBC I-27 IN cd3od May 23 2012 sw-Probe

Temp. 25.0 C / 298.1 K
Sample #3, Operator: vnmr1
Relax. delay 1.000 sec
Acq. time 0.150 sec
Width 8012.8 Hz
ZD Width 30154.5 Hz
64 repetitions
2 x 128 increments
OBSERVE N1, 498.7694461 MHz
DATA PROCESSING
Sine bell 0.071 sec
F1 DATA PROCESSING
Gauss apodization 0.004 sec
FT size 4096 x 2048
Total time 5 hr, 37 min

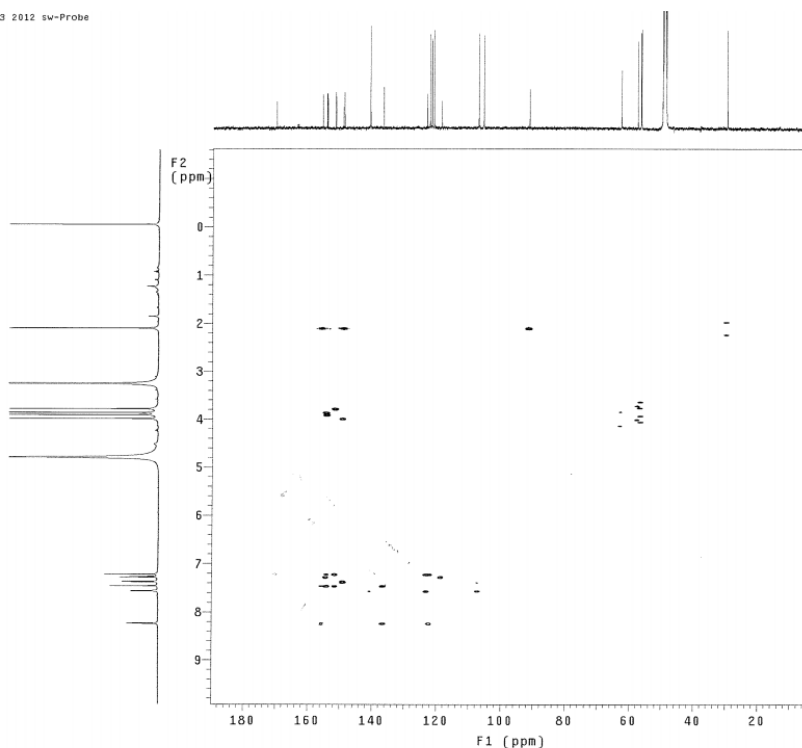


Figure S7

DD2-500 gHMBC I-27 IN cd3od May 23 2012 sw-Probe

Temp. 25.0 C / 298.1 K
Sample #3, Operator: vnmr1
Relax. delay 1.000 sec
Acq. time 0.150 sec
Width 8012.8 Hz
ZD Width 30154.5 Hz
64 repetitions
2 x 128 increments
OBSERVE N1, 498.7694461 MHz
DATA PROCESSING
Sine bell 0.071 sec
F1 DATA PROCESSING
Gauss apodization 0.004 sec
FT size 4096 x 2048
Total time 5 hr, 37 min

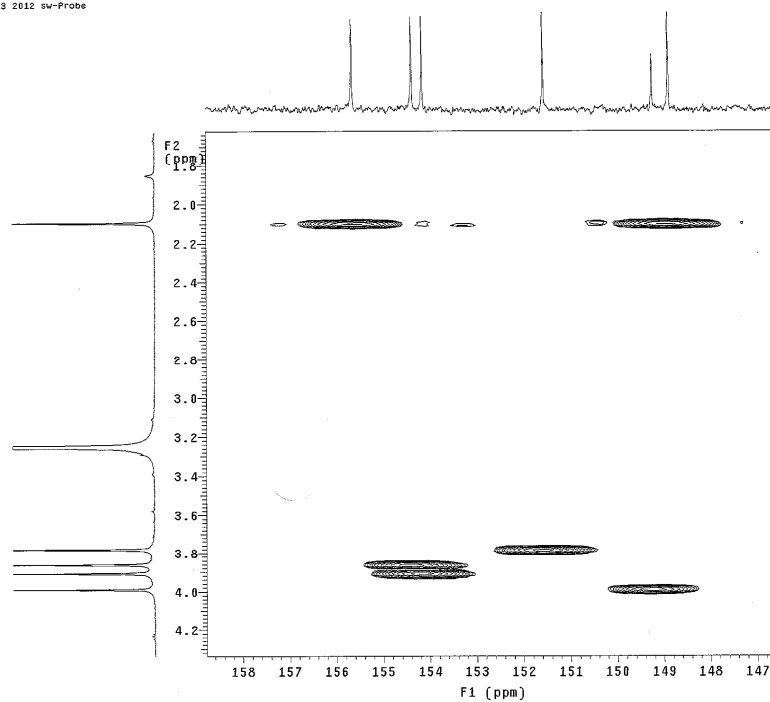


Figure S8

Figure S9. *Alkterlactone* (1):

CD

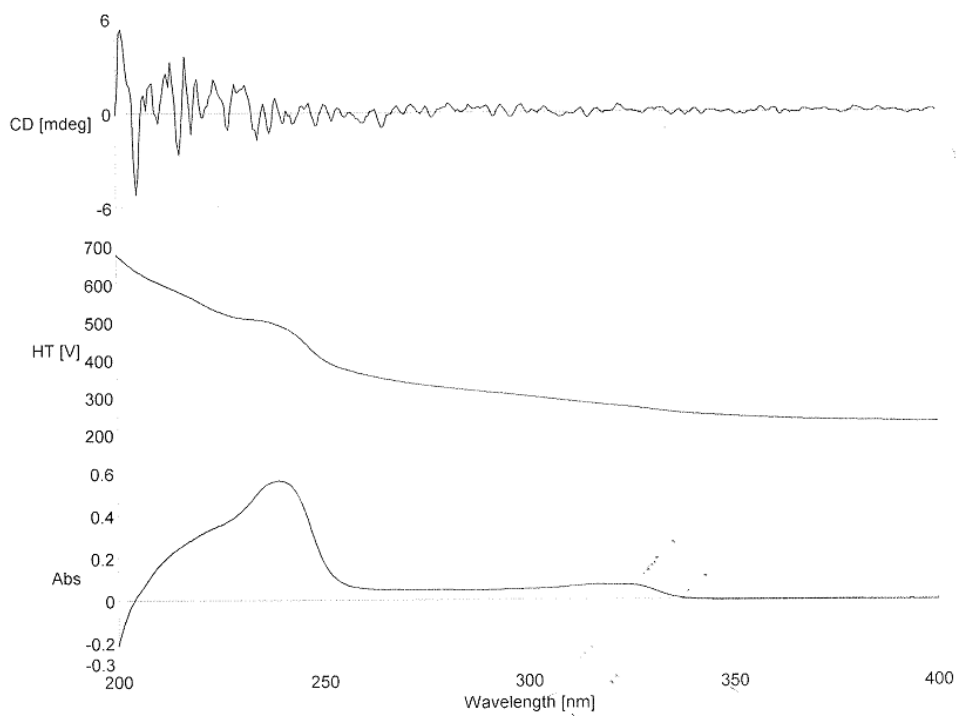


Figure S9

Figure S10. *Alkterlactone (1)*:
IR

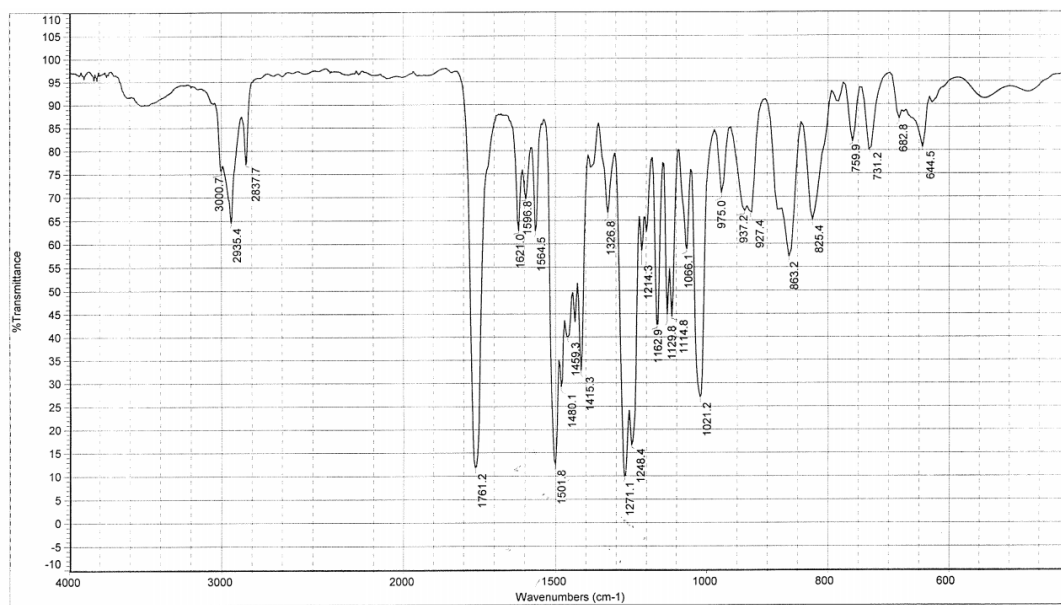
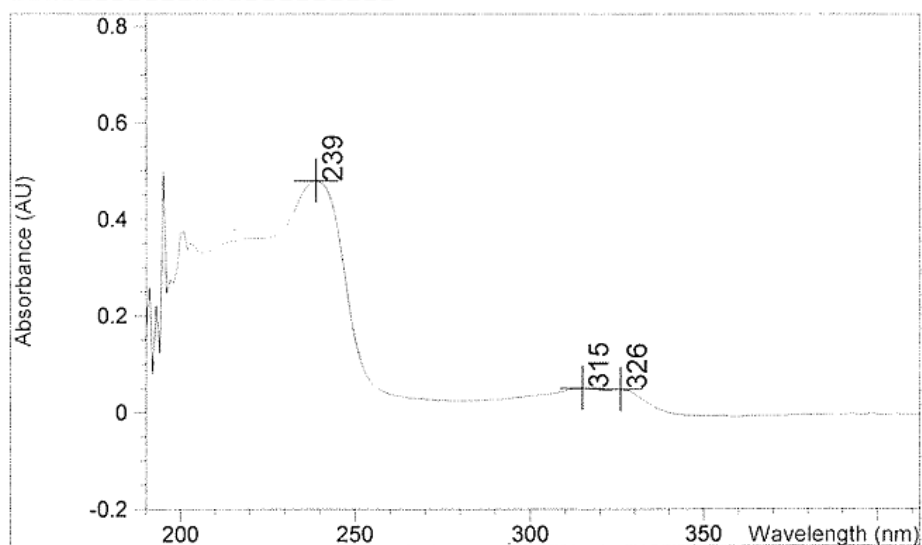


Figure S10

Figure S11. *Alkterlactone (1)*:
UV

Overlaid Sample Spectra



Sample/Result Table

#	Name	Peaks (nm)	Abs (AU)
1		239.0	0.47912
1		315.0	5.0259E-2
1		326.0	4.8283E-2

Figure S11

Figure S12. 5'-S-Methyl-5'-thioadenosine (4):
¹H-NMR

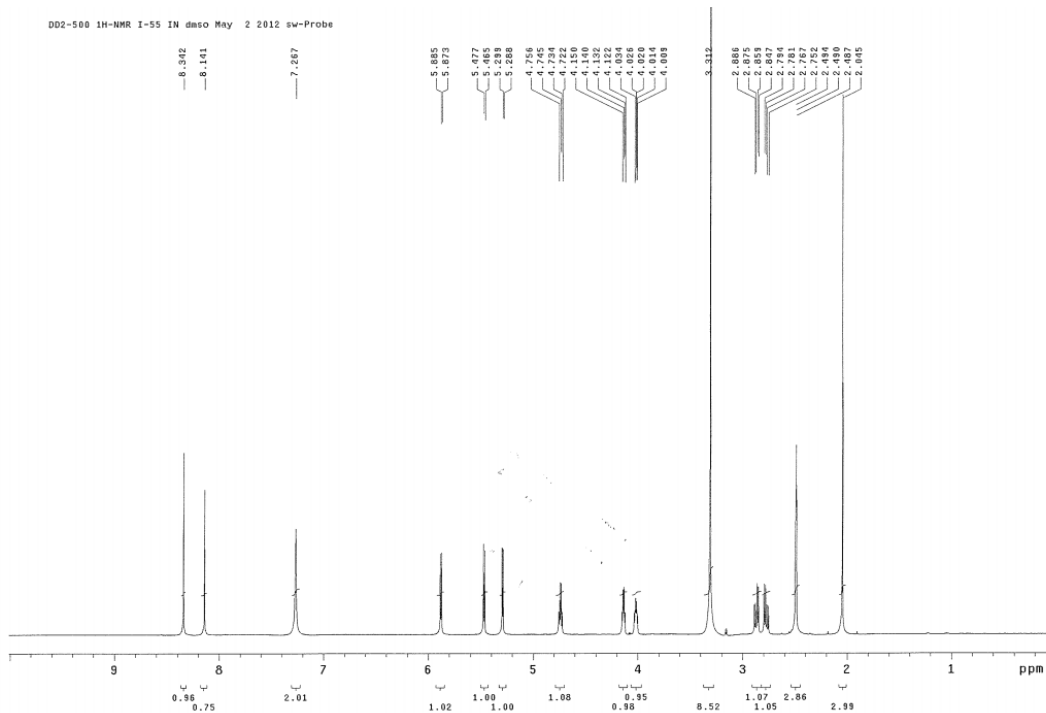


Figure S12

Figure S13. *5'-S-Methyl-5'-thioadenosine (4)*:
 ^{13}C -NMR

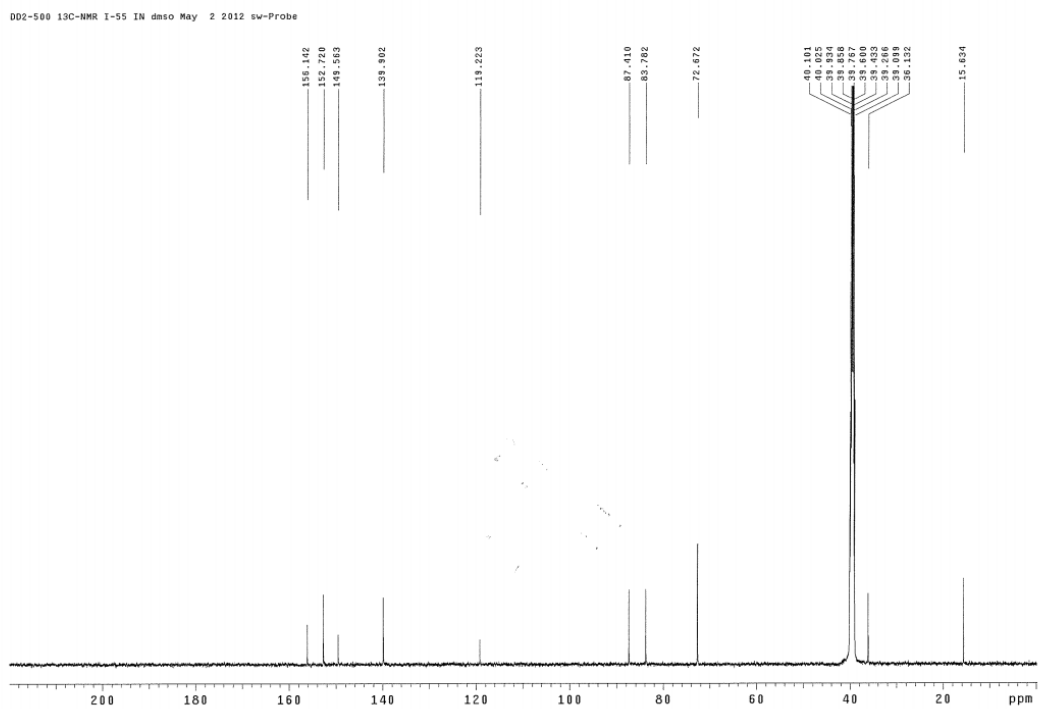


Figure S13