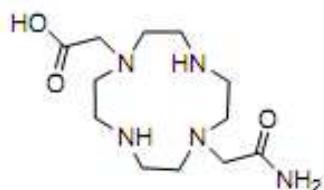
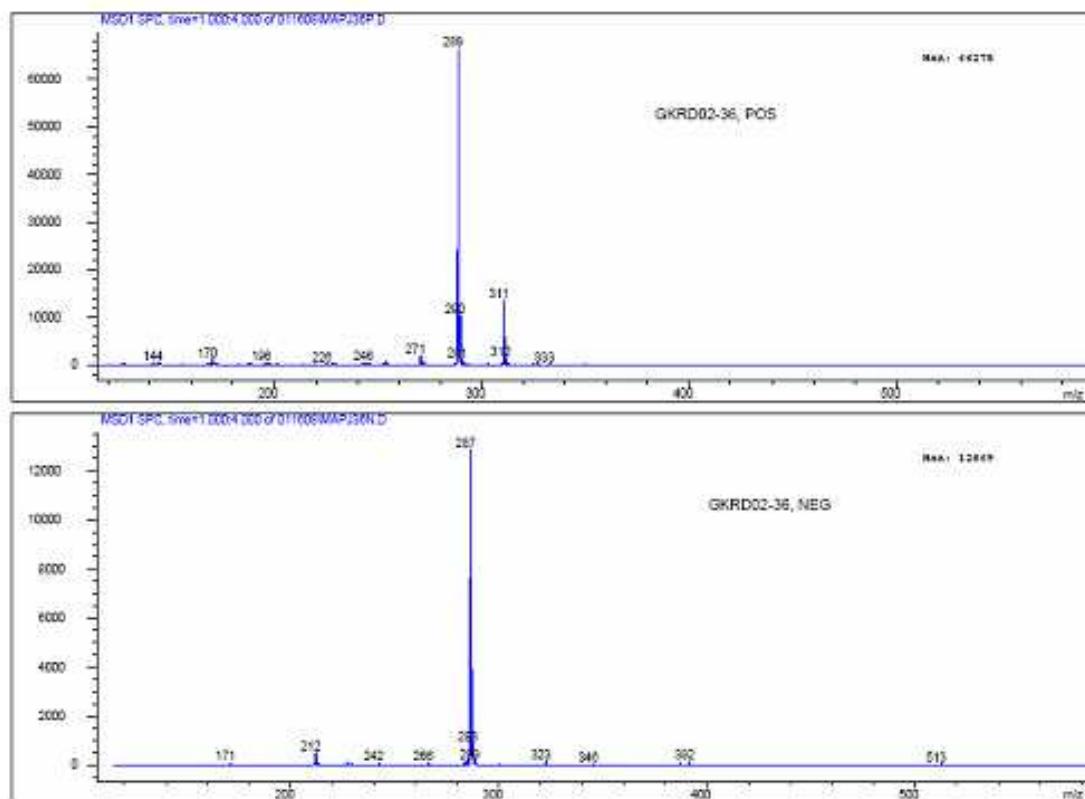


APPENDIX G
Characterization of DOAAM Ligand

DOAAM = *1,4,7,10-tetraazacyclododecane-1-acetate-7-amide*



$C_{12}H_{25}N_5O_3$
Exact Mass: 287.2

m/e: 287.20 (100.0%), 288.20 (13.4%), 288.19 (1.8%), 289.20 (1.7%)

JPL Product

176.62

180.51

16.82

58.56
57.47
57.37
51.10
51.05
43.80
43.03



Current Data Parameters
NAME JPL-Product
EXPN0 1
PROCNO 1

F2 - Acquisition Parameters
Date 20080123
Time 20:36
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpp30
TD 65536
SOLVENT D2O
NS 277
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 300.1 K
D1 2.000000 sec
d11 0.0300000 sec
DETA 1.8999998 sec
TDD 1

==== CHANNEL f1 =====

NUC1 13C
P1 10.00 usec
PL1 -0.20 dB
SF01 100.6228238 MHz

==== CHANNEL f2 =====

CPPRGC2 waltz16
NUC2 1H
PCD2 60.00 usec
PL12 12.12 dB
PL13 12.12 dB
PL2 -6.00 dB
SF02 400.1316005 MHz

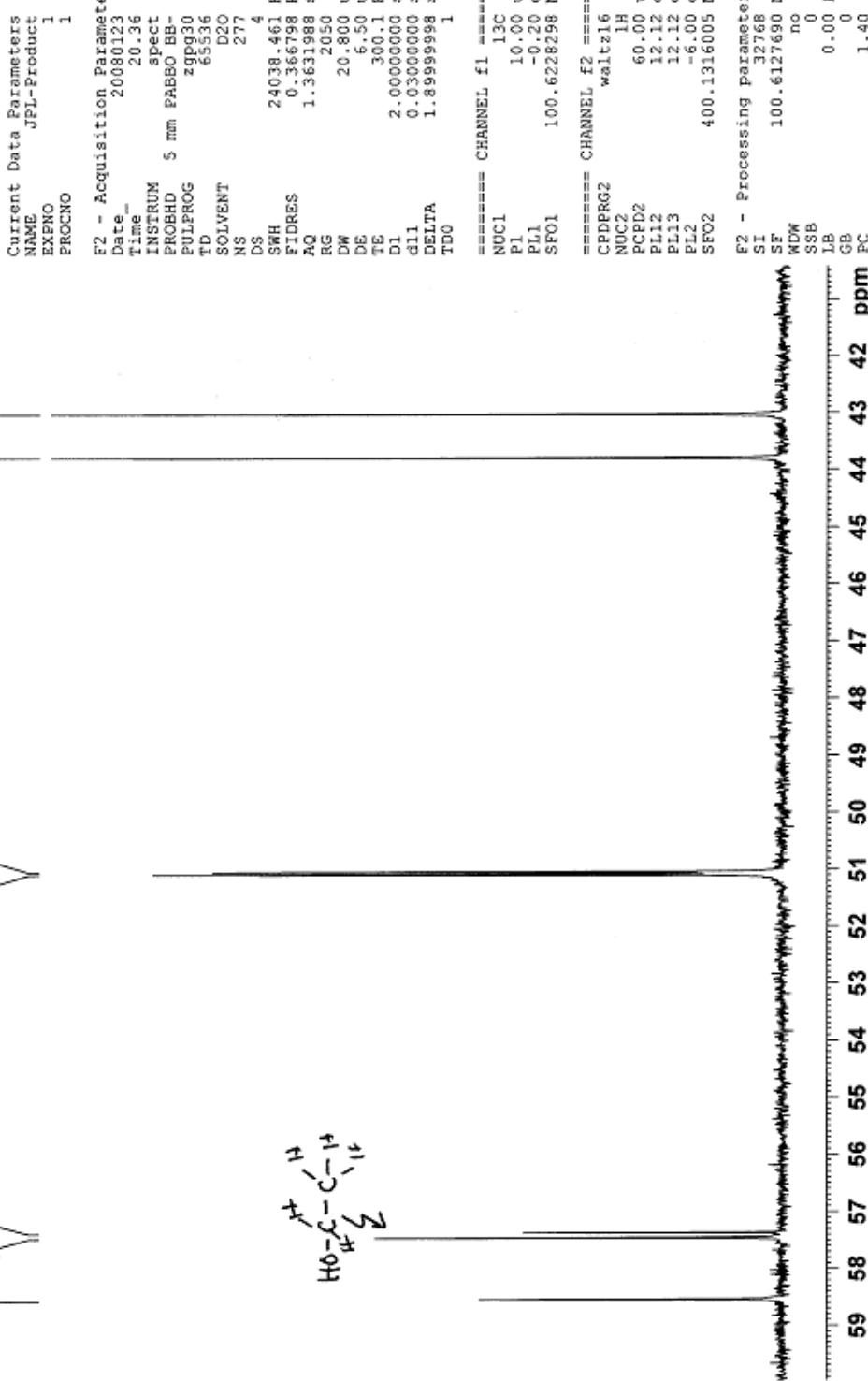
F2 - Processing Parameters
SI 32768
SF 100.6127690 MHz
WDW no
SSB 0
JB 0.00 Hz
GB 0
PC 1.40

E+heano

G2

JPL Product

58.56
57.37
57.47
51.10
51.05



176.62

58.56
57.47
57.37
51.10
51.05
43.80
43.03

16.82



Current Data Parameters
NAME JPL-Product
EXPNO 1
PROCNO 1

```

==== F2 - Acquisition Parameters ====
Date 20080123
Time 20.36
INSTRUM spect
PROBID 5 mm PABBO BB-
PULPROG zgppg30
TD 65536
SOLVENT D2O
NS 277
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 300.1 K
T1 2.0000000 sec
D1 0.03000000 sec
d11 1.89999998 sec
DELTA 1
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 10.00 usec
PL1 100.6228298 MHz
SFO1 SFO2

===== CHANNEL f2 =====
CPDPKG2 waltz16
NUC2 1H
PCPD2 60.00 usec
PL12 12.12 dB
PL13 12.12 dB
PL2 -6.00 dB
SFO2 400.1316005 MHz

==== Processing parameters ====
SI 32768
SF 100.6127690 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

```



Current Data Parameters
NAME JPL-Product
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date 20080123
Time 21:31
INSTRUM spect
PROBHD 5 mm PABBO BB-PULPROG
TD 2930
D1 65536
SOLVENT D2O
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 144
DW 60.800 usec
DE 6.50 usec
TE 300.0 K
D1 1.0000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 1H
P1 7.69 usec
PL1 -6.00 dB
SF01 400.1324710 MHz
F2 - Processing Parameters
SI 32768
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

