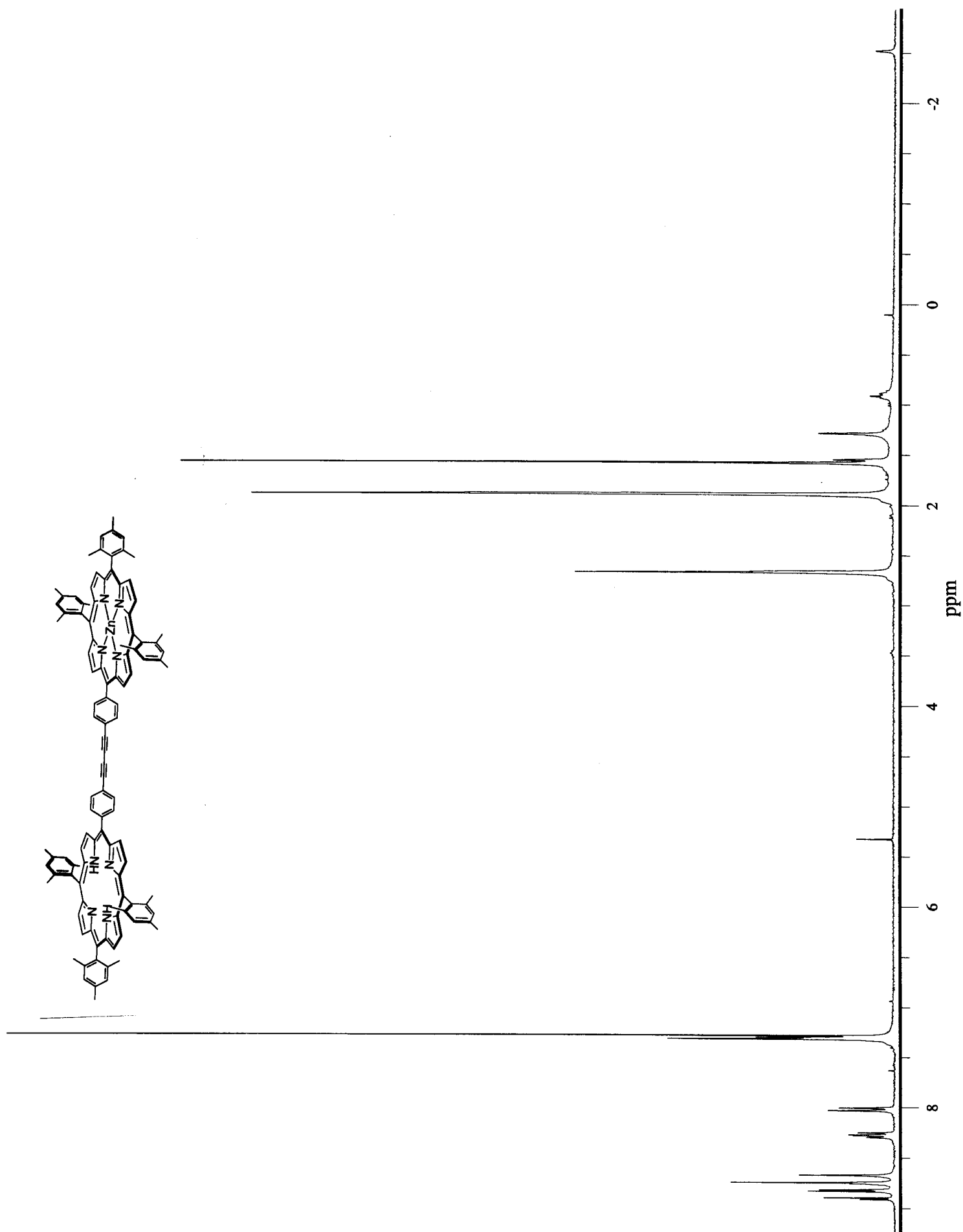
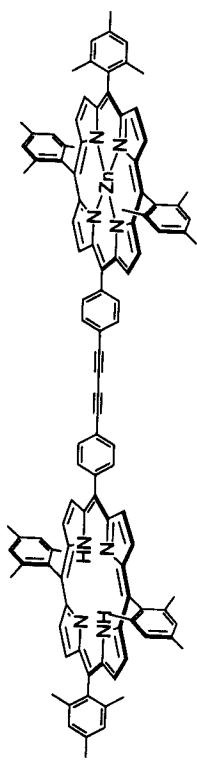


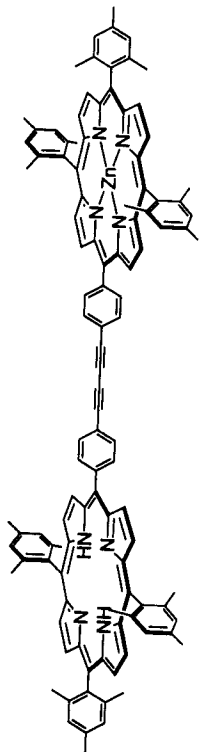
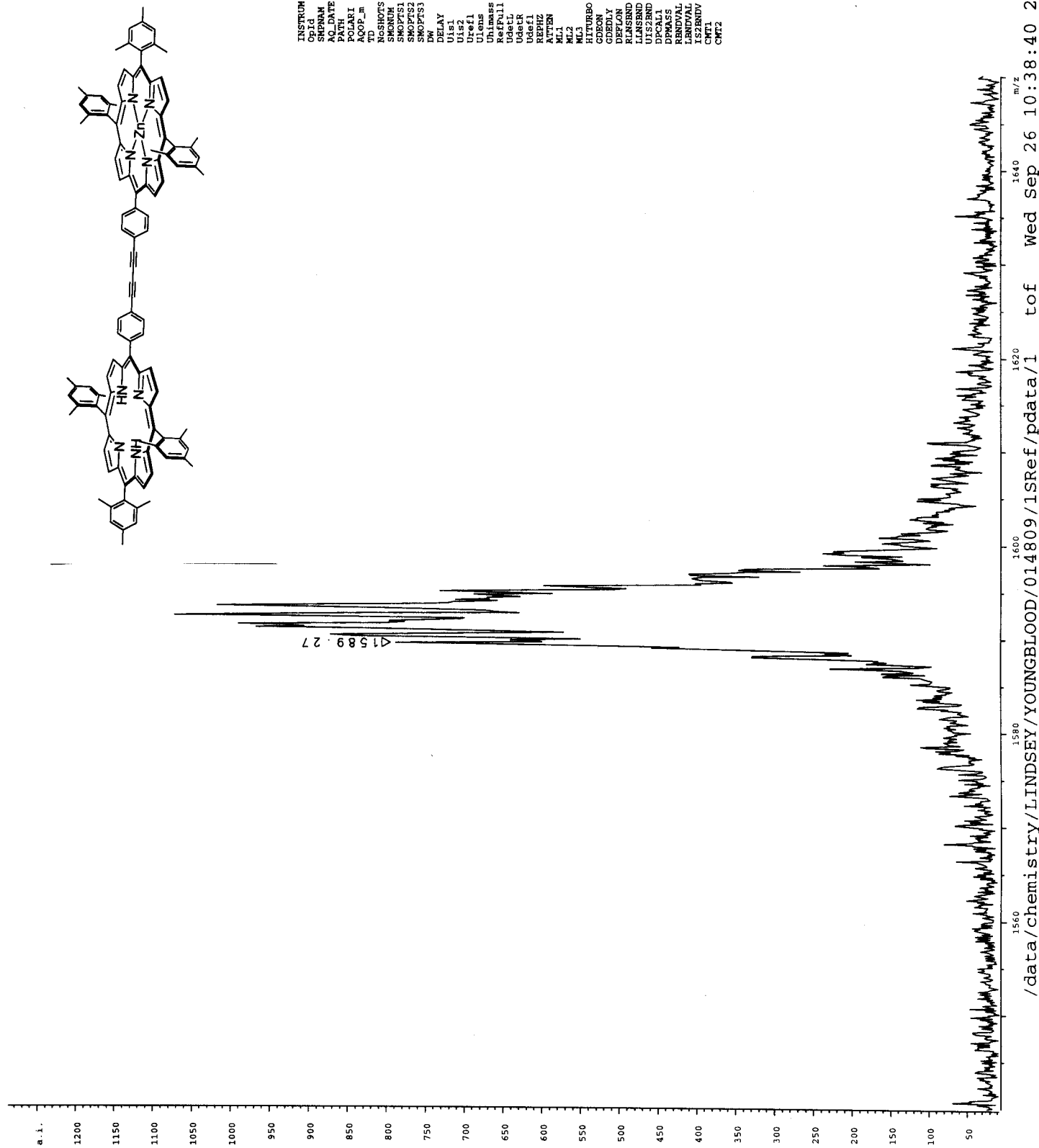
Supplementary Material

Page S1	¹ H-NMR data for Zn-pbp-Fb
Page S2	LD-MS data for Zn-pbp-Fb
Page S3	LD-MS data for Zn-pbp-Fb
Page S4	Fluorescence spectrum for Zn-pbp-Fb
Page S5	¹ H-NMR data for Zn-pbp-Mg
Page S6	LD-MS data for Zn-pbp-Mg
Page S7	Fluorescence spectrum for Zn-pbp-Mg
Page S8	Overlaid fluorescence spectra for Zn-3 and Mg-3
Page S9	¹ H-NMR data for 2
Page S10	LD-MS data for 2
Page S11	LD-MS data for 2



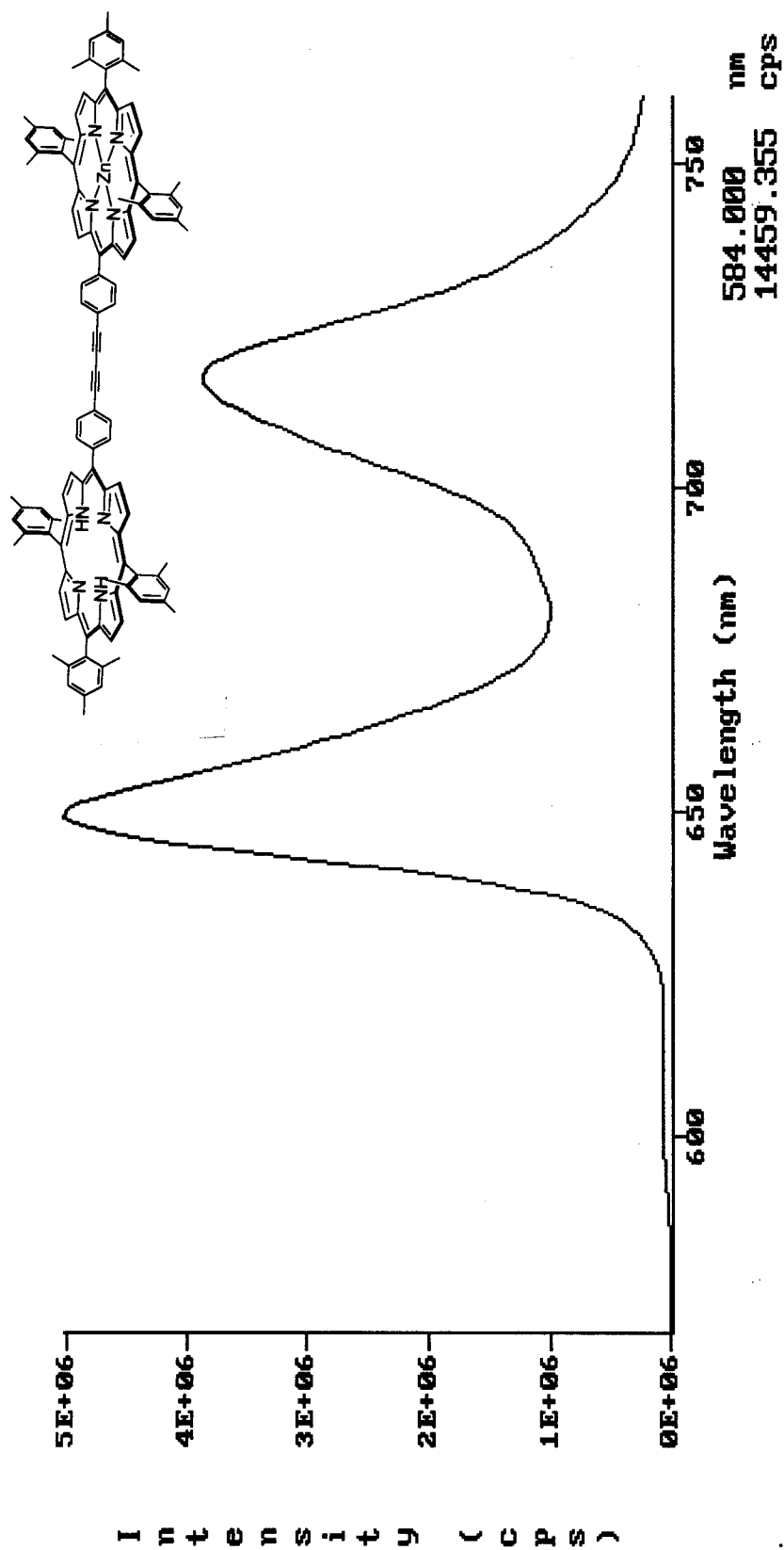


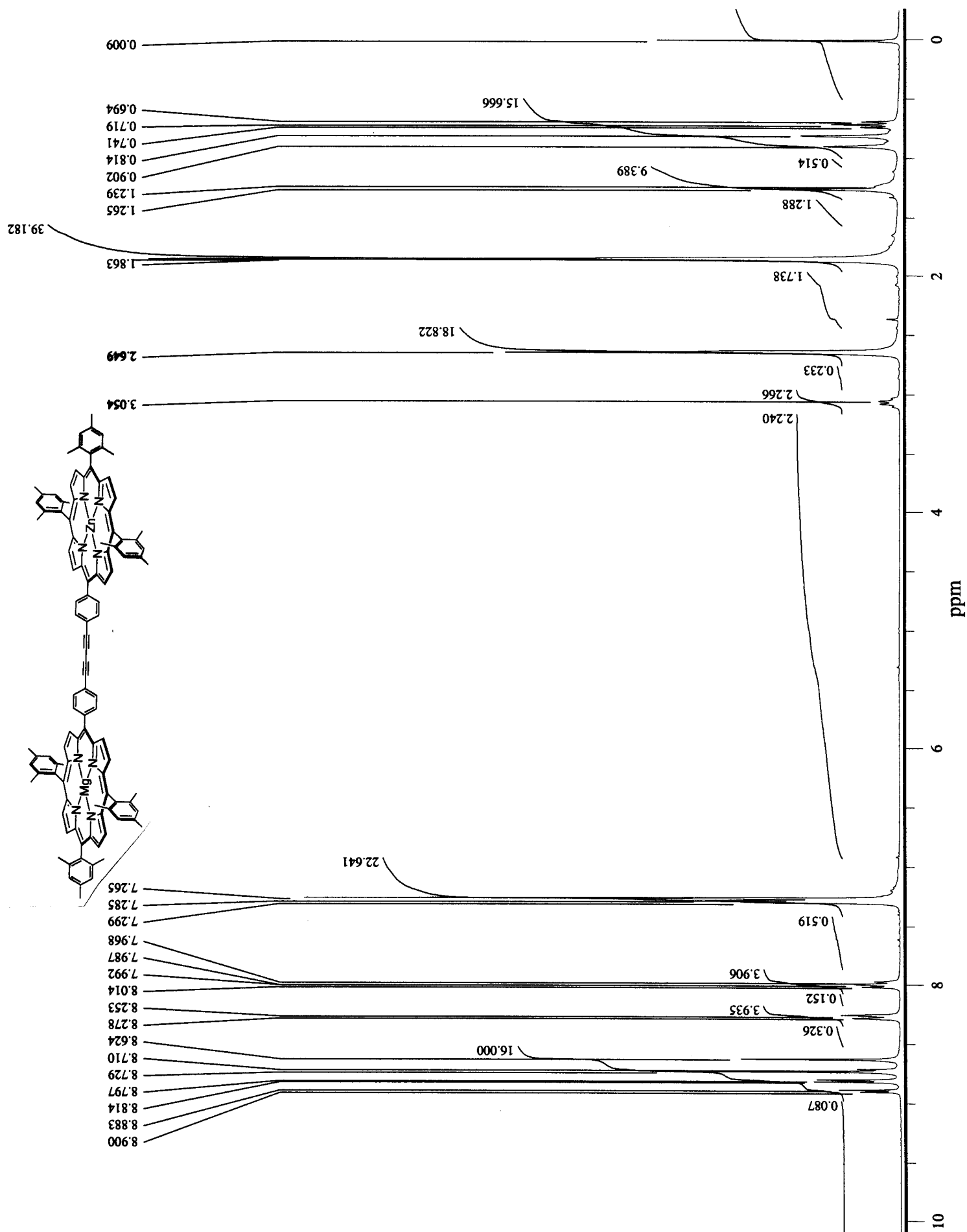
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SNSPNUM	014809		
ACQDATE	Thu Feb 15 17:32:51 2001		
DATA_PATH	/data/chemistry/LINDSEY/YOUNGBLOOD		
AQOP_m	Reflector		
TD	45000		
NOSHOTS	57		
SNOMIN	0		
SHOTST1	0		
SHOTST2	0		
SHOTST3	0		
DMW	1.00 [ns]		
DEDELAY	20.00 [Kv]		
U1s1	18.50 [Kv]		
U1s2	18.50 [Kv]		
U1s3	18.50 [Kv]		
U1s4	7.50 [Kv]		
Unlens	10.00 [Kv]		
UHmass	0.00 [Kv]		
RefPull	1.55 [Kv]		
Udel1	1.55 [Kv]		
Udel2	1.55 [Kv]		
Udel3	2.00 [Kv]		
REPZH	1.00 [Hz]		
ATTEN	31.0		
M.L1	207956.398		
M.L2	356.195		
HITURBO	no		
SDRON	yes		
DEFLEN	short		
DEFLN	no		
KLSND	no		
KLSPD	no		
UIJEND	no		
POPCAL1	510.84		
DPPASS	200.00 [Da]		
RENDVAL	0.33		
RENDVAL	0.28		
RENDVAL	0.71		
ZnPopLs1			
CMT1	attn = 31, shot = 57		

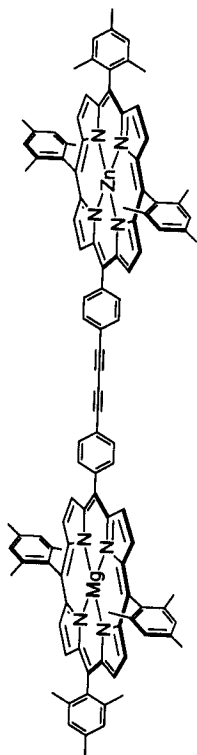


INSTRUM TOP
OpId Unknown
SHPNAM 014809
AQ DATE Thu Feb 15 17:32:51 2001
PATH /data/chemistry/LINDSEY/YOUNGBLOOD
POLARI POS
AOP_m Reflector
T 4500
R 57
RSHOTS 0
SMONUM 0
SMOPTS1 0
SMOPTS2 0
SMOPTS3 0
DW 1.00 [ns]
DELAY 0 [ns]
U1s1 20.00 [KV]
U1s2 18.50 [KV]
Urefl 0.00 [KV]
U1ens 7.50 [KV]
U1mass 10.00 [KV]
RefPull 0.00 [KV]
U1s1 1.50 [KV]
U1s2 0.00 [KV]
U1s3 2.00 [KV]
REFPHZ 1.00 [Hz]
ATTEN 31.0
ML1 2079756.398
ML2 356.195
ML3 0.000
HITURBO no
GDEON Yes
GDELY short
DEFLON no
FLANSEN no
L1SENEND no
L2SENEND no
DPMAS 510.84
DPMAS 200.00 [Da]
RENDVAL 0.33
L1NDVAL 0.28
L2NDNDV 0.91
CMT1 ZnPhylas1
CMT2 attn = 31, shot = 57

SPEX 615 ■ ZNFBGL2.SPT ZnFbglas2 emiss.



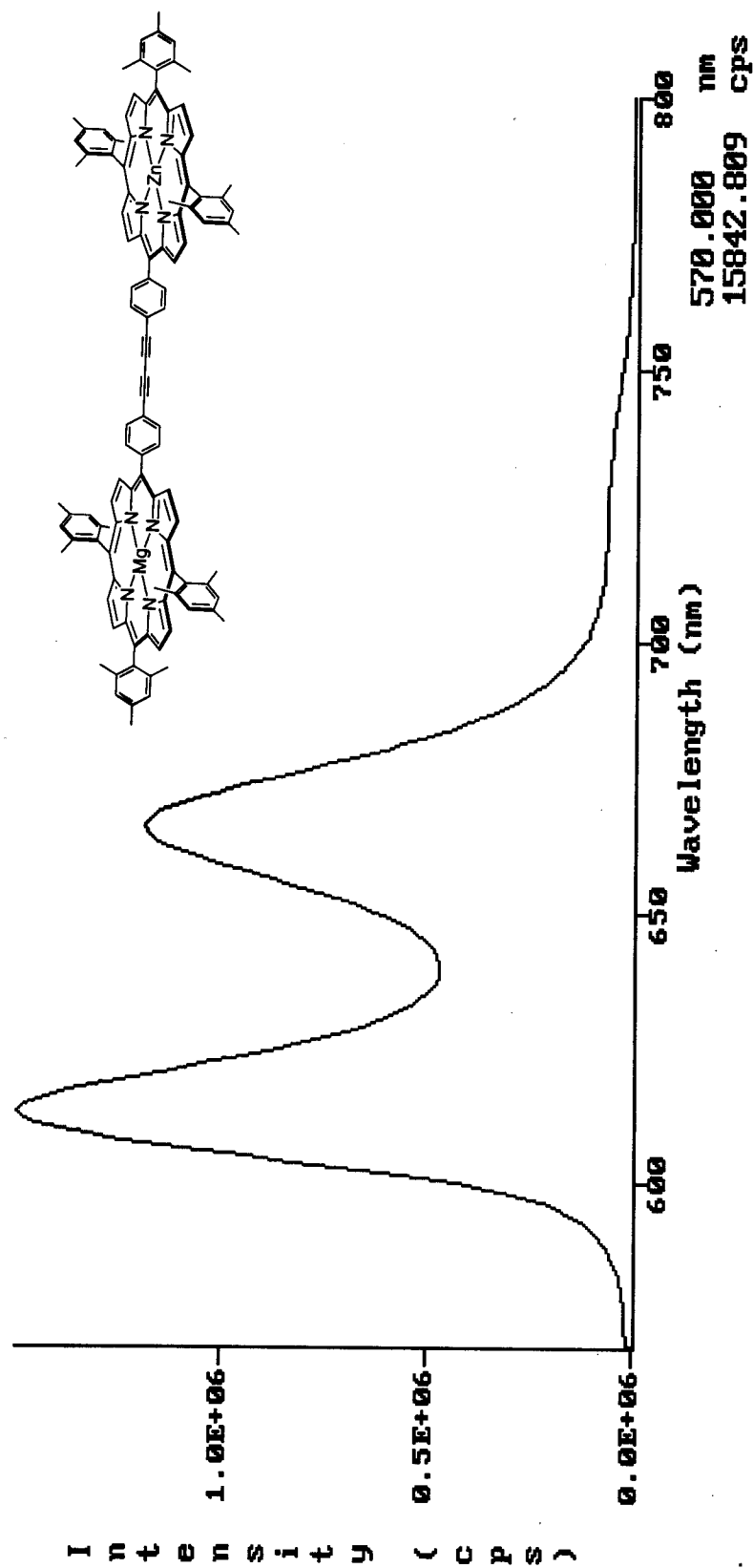


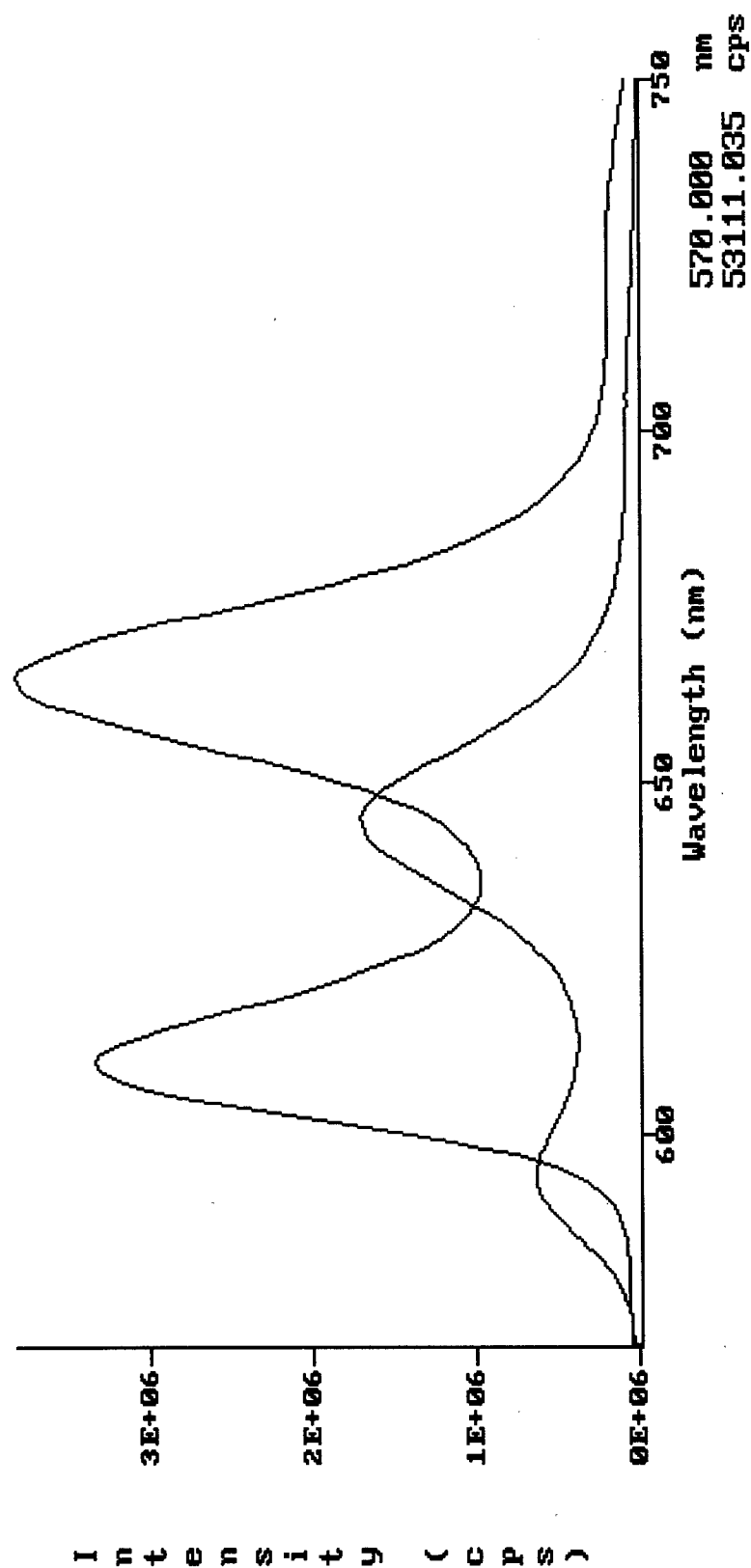


INSTRUM TOP		OpId	Unknown
SNAME	001864		
QCD_DATE	Tue May 30 17:59:49 2000		
PAPATI	/data/chemistry/LINDSEY/DANIEL		
REFLECTOR	Reflector		
TD	40000		
NoSHOTS	70		
SNORM	0		
SNOPTS1	0		
SNOPTS2	0		
SNOPTS3	0		
LOOP_M			
DELAY	0 [ns]		
Uis1	20.00	[kV]	
Uis2	18.50	[kV]	
Uis3	17.50	[kV]	
Uis4	7.50	[kV]	
UbMass	10.00	[kV]	
ReFull	0.00	[kV]	
RdGatL	1.50	[kV]	
RdGatR	2.00	[kV]	
Kv1	2.00	[kV]	
Kv2	2.00	[kV]	
REPZH	1.00	[Hz]	
ATTEN	42.0		
MU1	2067510.748		
MU2	353.368		
HITURBO	0.000		
GIDCON	yes		
GDELY	short		
GDEFION	no		
RLASND	no		
UISASND	no		
UISZND	no		
DPCAL1	510.84		
DPASS	200.00	[Da]	
BRENDVAL	0.33		
LENDVAL	0.38		
LSNOV	0.28		
dimerz71.frl			
atten=71.frl			
CMT2			

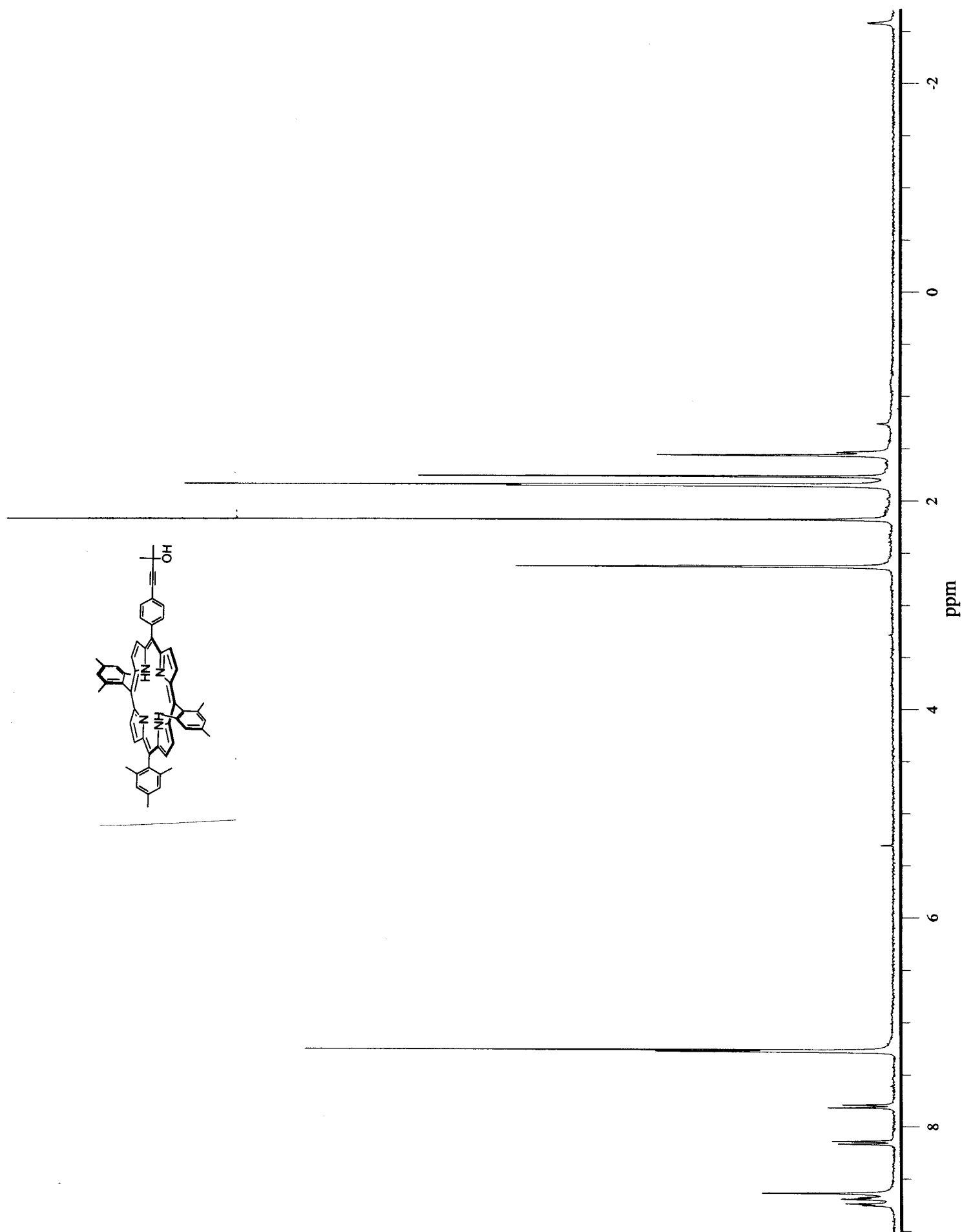
SPEX ■ R271MGZN.SPT r271mgzn

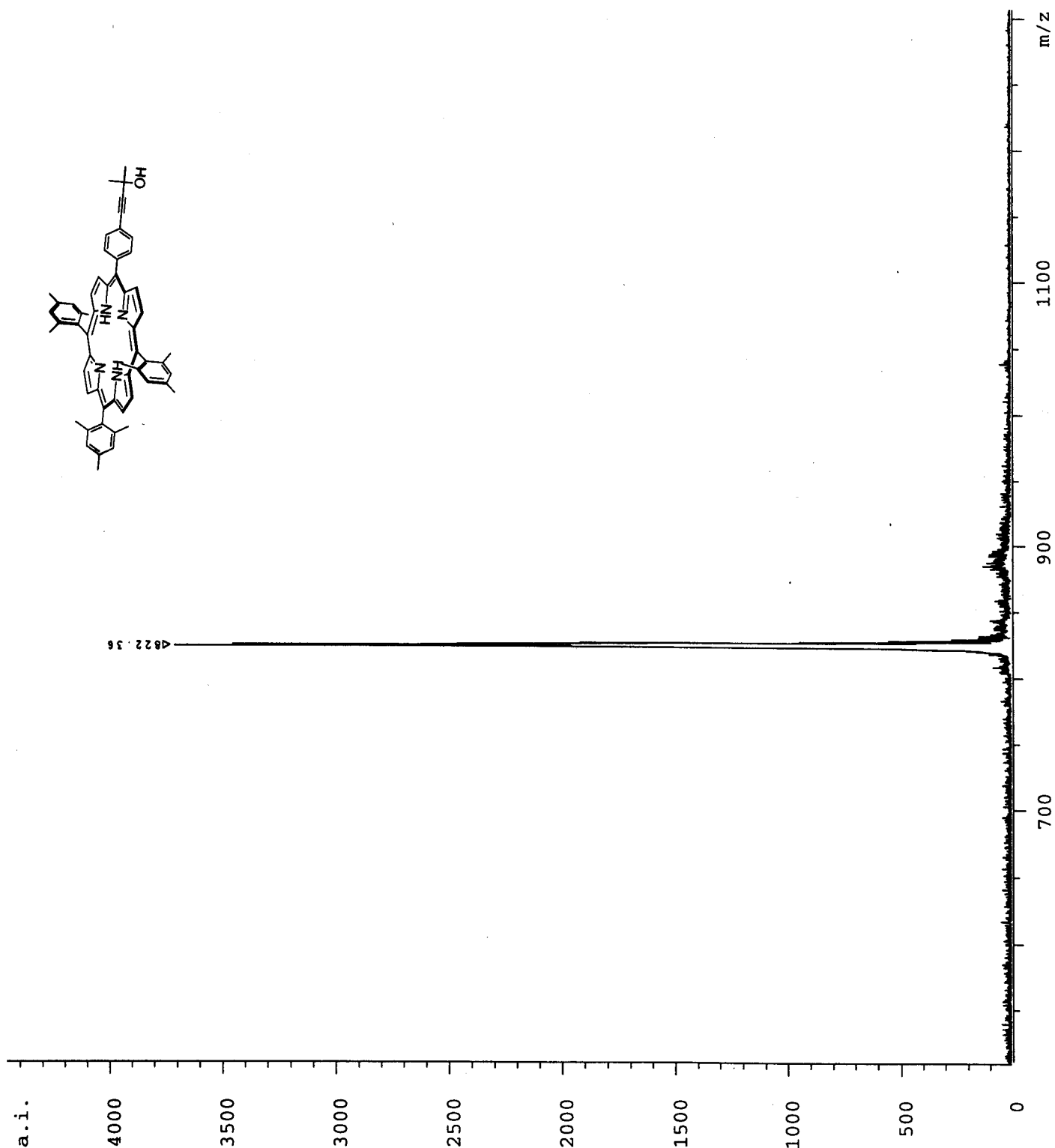
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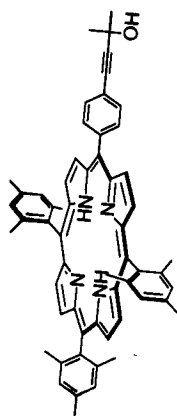


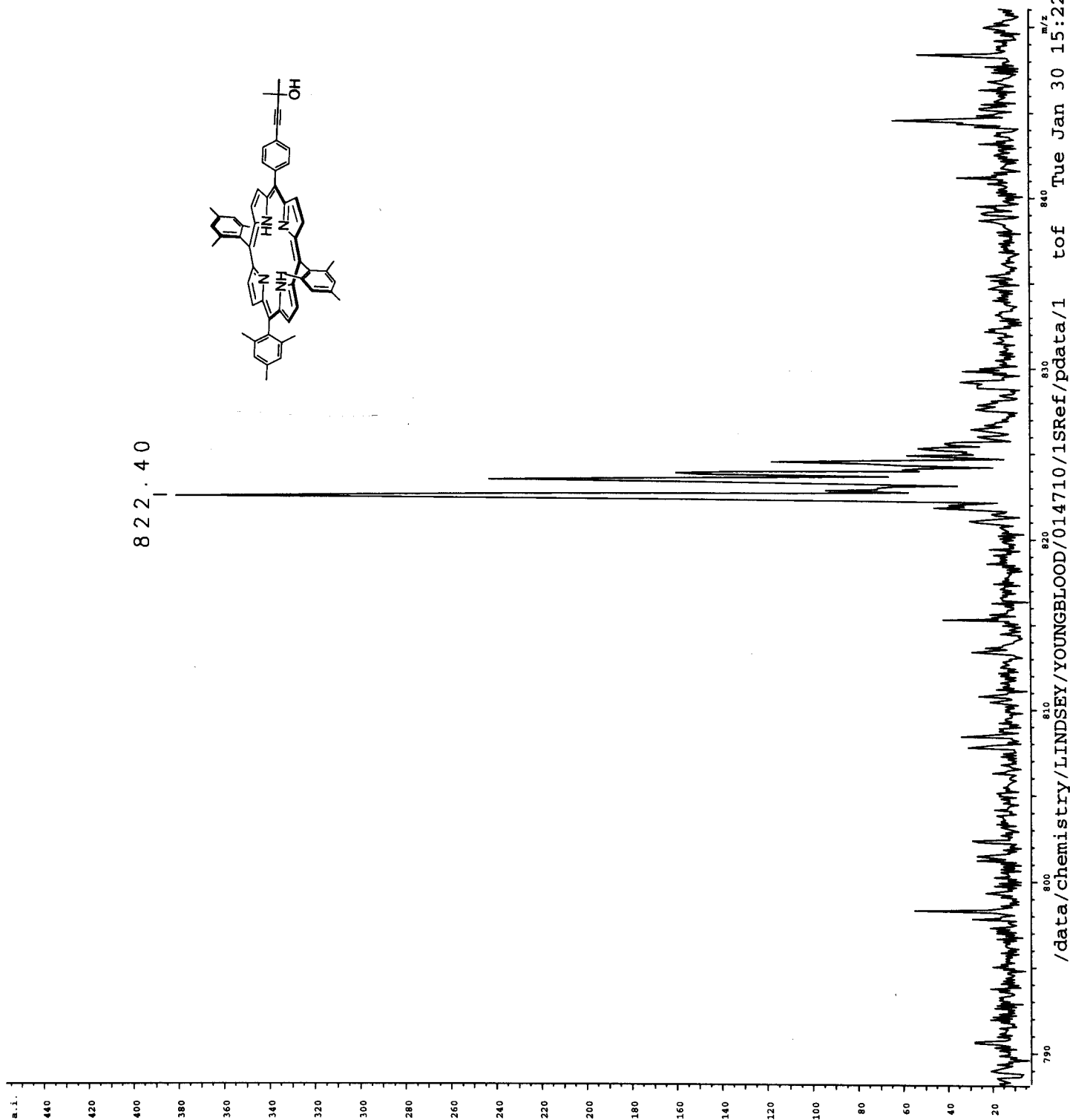
Fluorescence spectra for Zn-3 and Mg-3 are overlaid. The shorter-wavelength fluorescence spectrum corresponds to Zn-3. The more intense, longer-wavelength fluorescence corresponds to Mg-3.





INSTRUM TOP
COLD Unknown
SERIAL 001553
AC DATE Wed May 10 16:26:42 2000
PATH /data/chemistry/LINDSEY/DOROTA
POLARI POS
AOP_m Reflector
TO SHOTS 40000
SHOTS 22
SMOOTS 0
SMOOTS1 0
SMOOTS2 0
SMOOTS3 0
DM 1.00 (ns)
DELAY 0 (ns)
U1a1 10.00 (KV)
U1a2 18.50 (KV)
Uref1 0.00 (KV)
U1ens 7.50 (KV)
U1mass 10.00 (KV)
RefFull 0.00 (KV)
UdetL 1.55 (KV)
UdetA 0.00 (KV)
Udef1 2.00 (KV)
REFM2 1.00 (Hz)
ATTEN 38.0
ML1 2040234.390
ML2 218.055
ML3 0.000
HYPERNO no
GDEFLY yes
GDEFLY short
DEFLO no
FLASND no
LANSND no
UISZND no
O1a1 510.84
O1a2 200.00 [Da]
O1a3 0.33
RENOVAL 0.28
L1S2BNDV 0.91
CMT1 CCCMe2OHeater 3rd column
CMT2 attn=38





INSTRUM TOP
Opid Unknown
SMPNAM 014710
AQ DATE Tue Jan 30 15:22:37 2001
PATH /data/chemistry/LINDSEY/YOUNGBLOOD
POLARI POS
ACQ_M Reflector
TO 45000
NOSHOTS 29
SNOPTS1 0
SNOPTS2 0
SNOPTS3 0
DELAY 1.00 [ms]
U1s1 20.00 [KV]
U1s2 18.50 [KV]
U1s3 0.00 [KV]
U1s4 7.50 [KV]
U1s5 10.00 [KV]
U1s6 10.00 [KV]
U1s7 1.55 [KV]
U1s8 0.00 [KV]
U1s9 2.00 [KV]
U1s10 1.00 [Hz]
ATTEN 34.0
ML1 20737.93
ML2 336.792
ML3 0.000
HITURBO no
GDEON yes
GDELY short
DEFION no
FLASRD no
FLASND no
U1S2BND no
DPCAL1 510.84
DPMAS 200.00 [Da]
RENDVAL 0.33
LENDVAL 0.28
IS2BNDV 0.33
CMT1 ethynyl synthesis, second band
CMT2 no matrix, shot = 29, attn = 34