

Supporting Information for:
Improved Iterative Synthesis of Linearly Disassembling Dendrons

Adrian Ortiz, Charles S. Shanahan, David T. Sisk, Sujeewa C. Perera, Pallavi Rao, and Dominic V. McGrath*

Department of Chemistry and Biochemistry, University of Arizona, Tucson, AZ 85721

mcgrath@u.arizona.edu

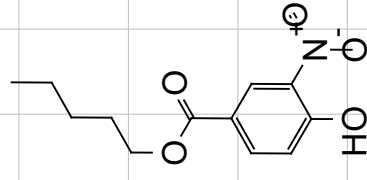
General Experimental	S1
¹ H NMR and ¹³ C NMR spectrum of 3a	S2-S3
¹ H NMR and ¹³ C NMR spectrum of 4	S4-S5
¹ H NMR and ¹³ C NMR spectrum of 5	S6-S7
¹ H NMR and ¹³ C NMR spectrum of 6	S8-S9
¹ H NMR and ¹³ C NMR spectrum of 7	S10-S11
¹ H NMR and ¹³ C NMR spectrum of 8	S12-S13
¹ H NMR and ¹³ C NMR spectrum of 9	S14-S15
¹ H NMR and ¹³ C NMR spectrum of 10	S16-S17
¹ H NMR and ¹³ C NMR spectrum of 11	S18-S19
¹ H NMR and ¹³ C NMR spectrum of 12	S20-S21
¹ H NMR and ¹³ C NMR spectrum of 13	S22-S23
¹ H NMR and ¹³ C NMR spectrum of 14	S24-S25
¹ H NMR and ¹³ C NMR spectrum of 15	S26-S27
¹ H NMR and ¹³ C NMR spectrum of 16	S28-S29
¹ H NMR and ¹³ C NMR spectrum of 17	S30-S31
¹ H NMR and ¹³ C NMR spectrum of 18	S32-S33
¹ H NMR and ¹³ C NMR spectrum of 19	S34-S35
¹ H NMR and ¹³ C NMR spectrum of 20	S36-S37

General: NMR spectra were recorded on commercial instrumentation at 300 MHz or 600 MHz for proton, and 75 or 125 MHz for carbon. All chemical shifts were reported as referenced from an internal TMS standard. All chemicals were purchased from chemical suppliers and used as received unless otherwise stated. All solvents used were freshly distilled prior to use or dried with 3 Å molecular sieves unless otherwise noted. Fréchet type dendrons ([G-*n*]-CH₂OH) were prepared according to literature procedures.¹ Fréchet dendritic aldehydes [G-*n*]-CHO² were prepared via treatment of the respective [G-*n*]-CH₂OH with PCC in CH₂Cl₂. Flash chromatography was performed by the method of Still et al.³ using silica gel (40-63 μm, Merck, Darmstadt, Germany). Thin-layer chromatography (TLC) was performed on precoated plates (silica gel 60 F₂₅₄, 250 μm, Merck, Darmstadt, Germany).

References Cited

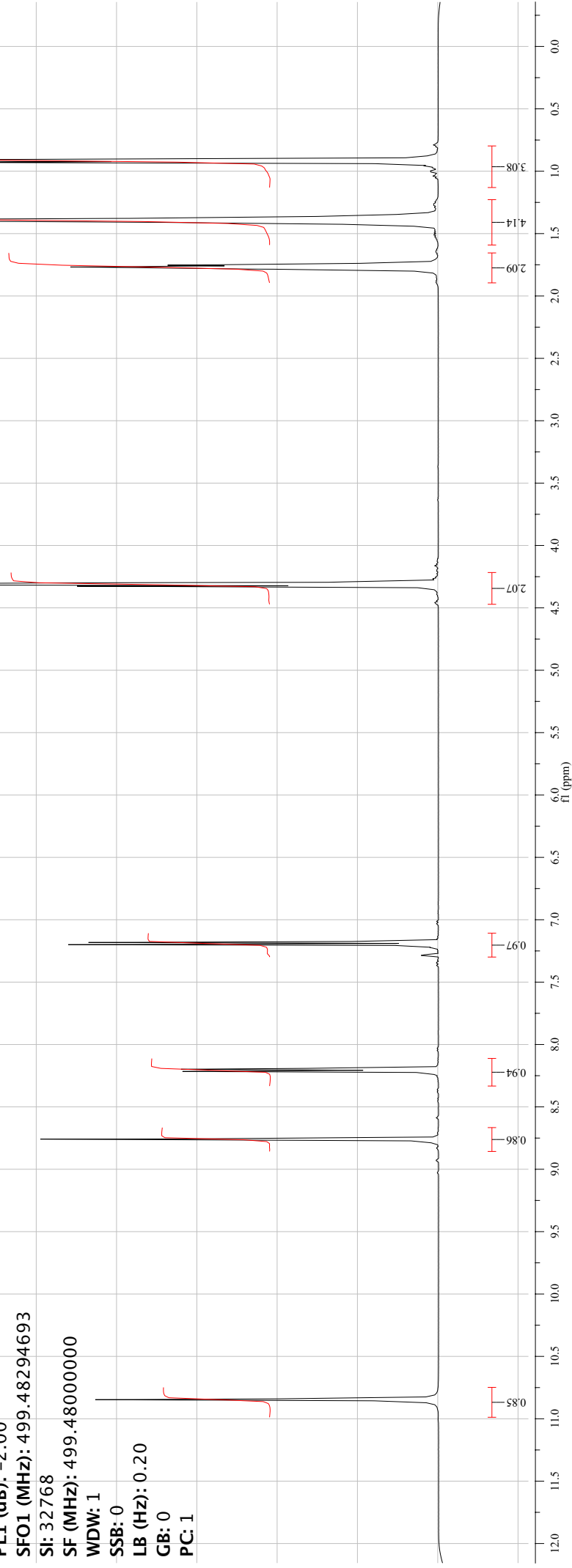
- (1) Hawker, C. J.; Fréchet, J. M. J. *J. Am. Chem. Soc.* **1990**, *112*, 7638-7647.
- (2) Pollak, K. W.; Sanford, E. M.; Fréchet, J. M. J. *J. Mater. Chem.* **1998**, *8*, 519-527.
- (3) Still, W. C.; Kahn, M.; Mitra, A. *J. Org. Chem.* **1978**, 2923-2925.

Title: Ao-vii-039 (3a)
Date: 2010-06-23T10:35:00
Spectrometer: spect
Probe: 5 mm BBO BB-1H/D Z-GRD
Z8007/0116
Pulse Sequence: zg30
TD: 32768
Solvent: CDCl3
NS: 16
DS: 4
SWH (Hz): 6250.000
FIDRES (Hz): 0.19073486
Acquisition Time (sec): 2.6215701
Receiver Gain: 20.2
DW (sec): 0.00008000
DE (usec): 6.00
Temperature (K): 298
D1 (sec): 0
TD0: 1
Nucleus: 1H
P1 (usec): 12.5
PL1 (dB): -2.00
SFO1 (MHz): 499.48294693
SI: 32768
SF (MHz): 499.48000000
WDW: 1
SSB: 0
LB (Hz): 0.20
GB: 0
PC: 1



3a

S2



Current Data Parameters
 NAME AO-VIII-039
 EXPNO 6
 PROCNO 2

F2 - Acquisition Parameters

Date_ 20040308
 Time 16.45
 INSTRUM spect
 PROBHD 5 mm Dual 13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 641
 DS 4
 SWH 31440.252 Hz
 FIDRES 0.479740 Hz
 AQ 1.0422809 sec
 RG 8192
 DW 15.903 usec
 DE 6.00 usec
 TE 0.0 K
 D1 0.69999999 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 5.20 usec
 PL1 0.00 dB
 SFO1 125.6967620 MHz

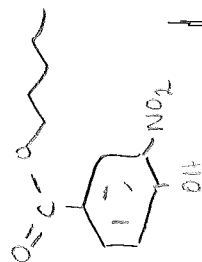
===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 72.60 usec
 PL2 120.00 dB
 PL12 19.00 dB
 PL13 23.00 dB
 SFO2 499.8315000 MHz

F2 - Processing parameters

SI 65536
 SF 125.6823595 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.00

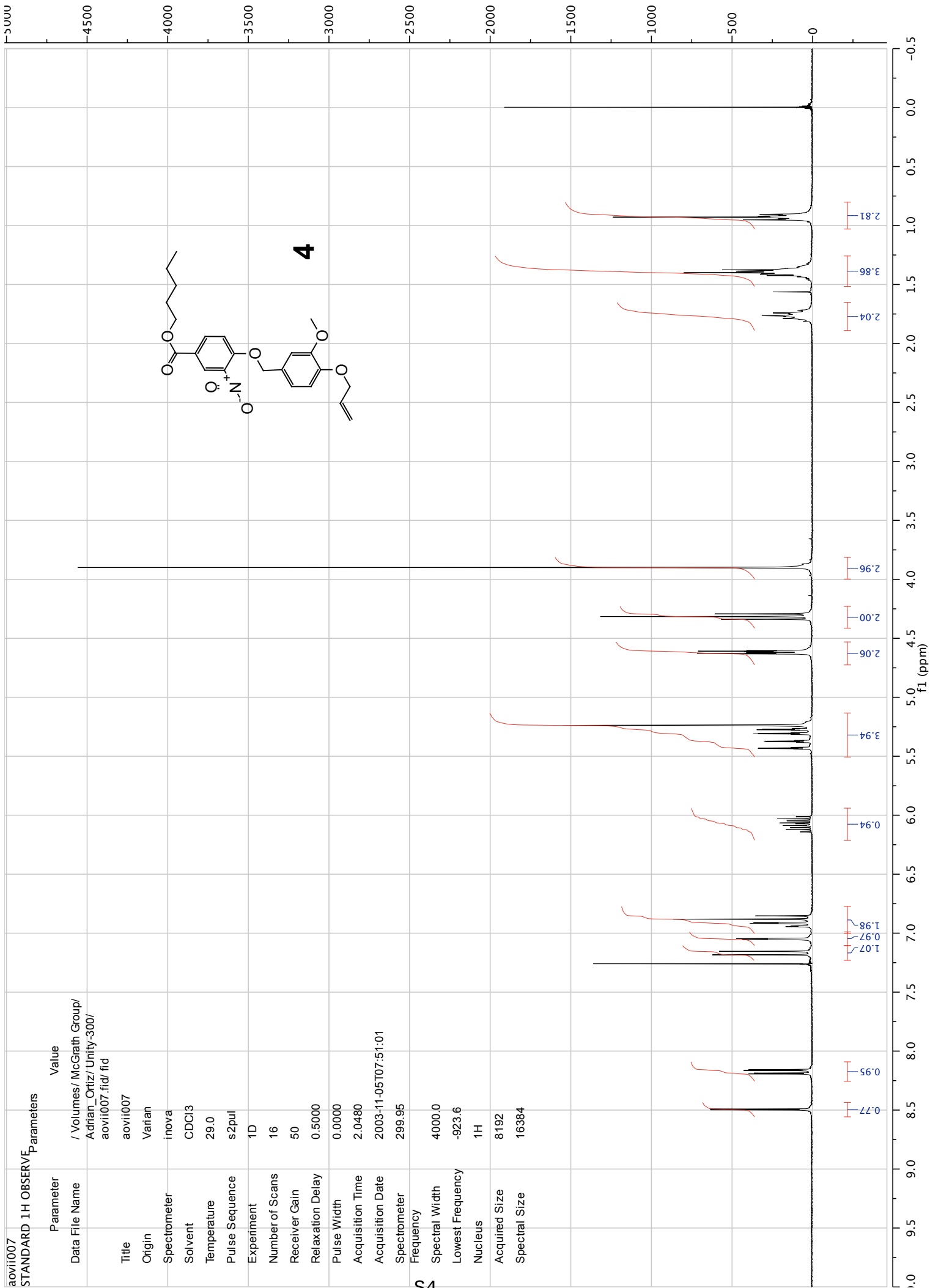
164.276
 157.968
 137.858
 133.179
 127.184
 123.122
 120.134
 77.254
 76.745
 76.999
 65.765
 28.328
 28.084
 22.306
 13.927

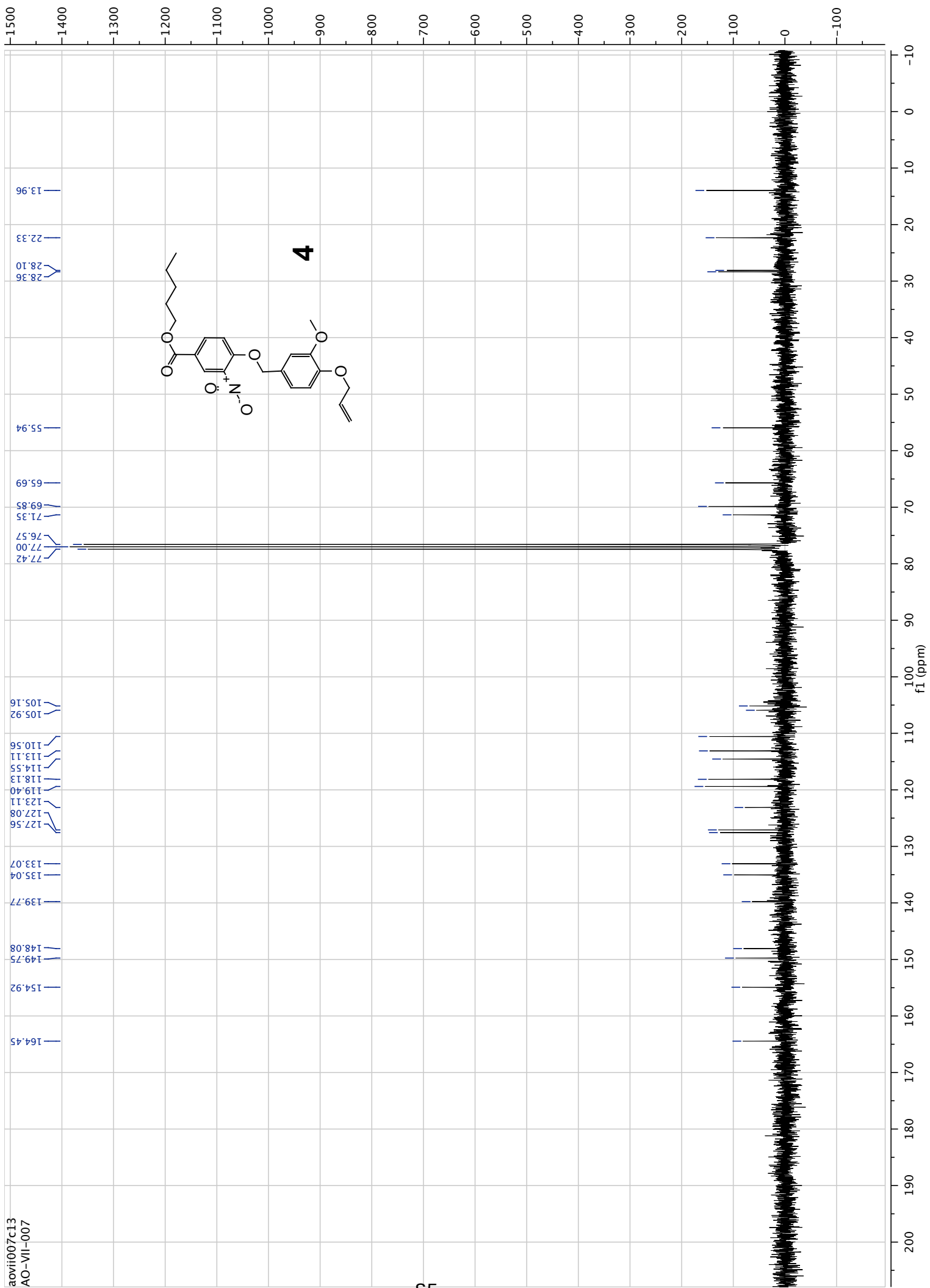
AO-VII-039
 Standard 13C Spectrum
 Dual 1H-13C probe

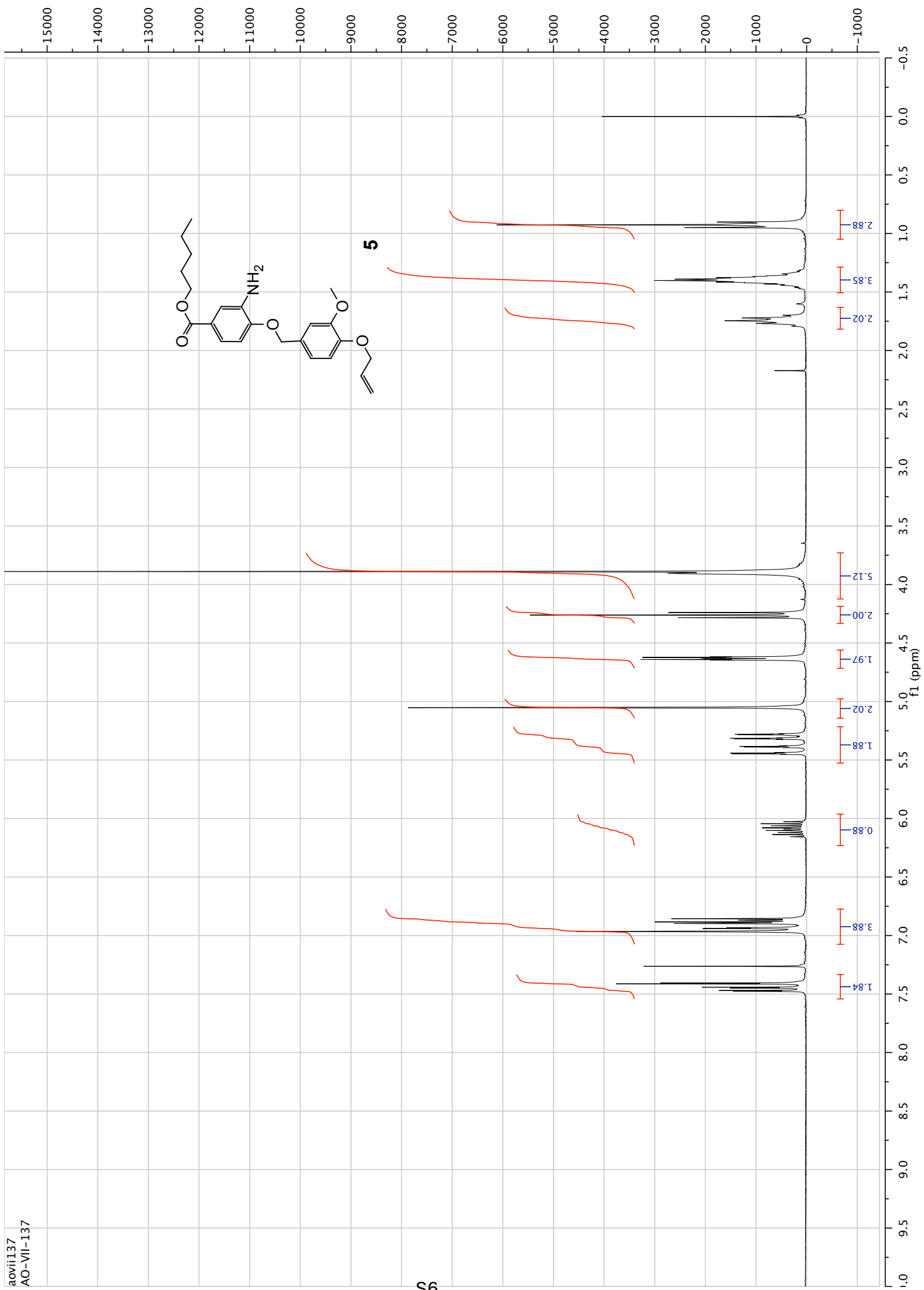


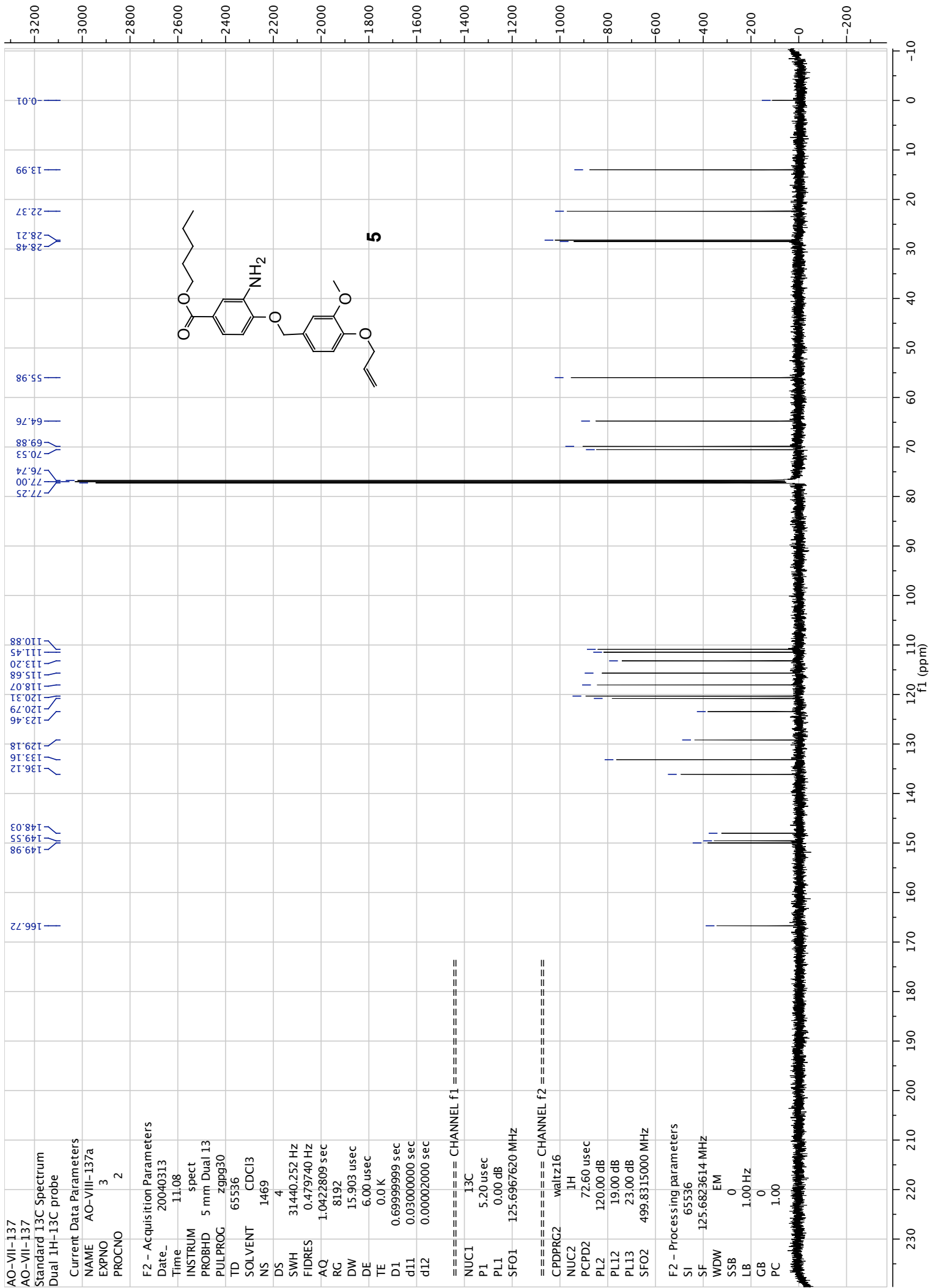
3a

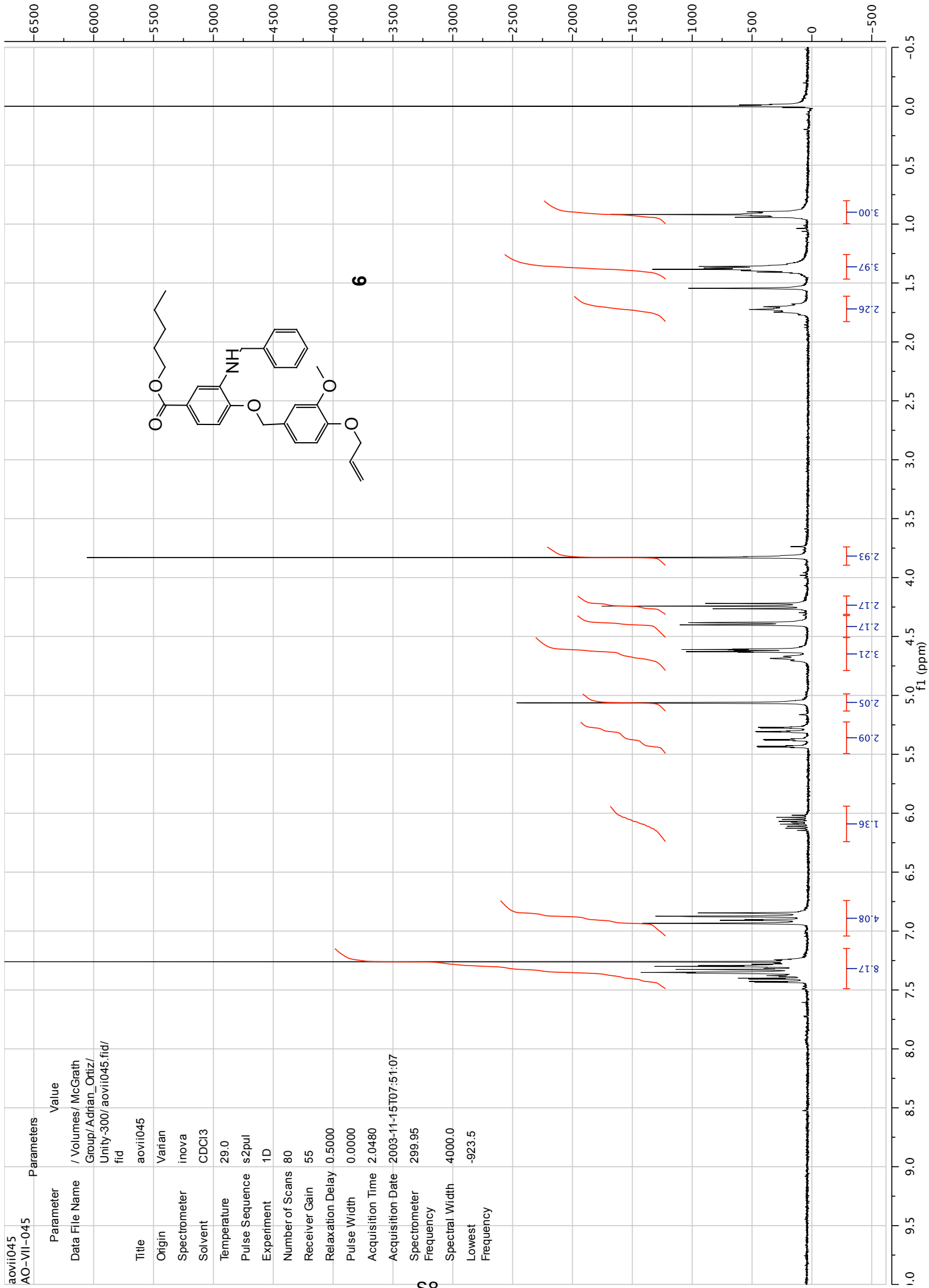
230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 ppm











Current Data Parameters	
NAME	AO-VII-157a
EXPNO	4
PROCNO	2

Date_	20040308
Time	15.40

PULPROG	zgpg30
---------	--------

SOLVENT	CDCI ₃
δ , ppm	δ , ppm
7.80 (d)	7.69 (d)
7.70 (d)	7.69 (d)
7.60 (d)	7.69 (d)
7.50 (d)	7.69 (d)
7.40 (d)	7.69 (d)
7.30 (d)	7.69 (d)
7.20 (d)	7.69 (d)
7.10 (d)	7.69 (d)
7.00 (d)	7.69 (d)
6.90 (d)	7.69 (d)
6.80 (d)	7.69 (d)
6.70 (d)	7.69 (d)
6.60 (d)	7.69 (d)
6.50 (d)	7.69 (d)
6.40 (d)	7.69 (d)
6.30 (d)	7.69 (d)
6.20 (d)	7.69 (d)
6.10 (d)	7.69 (d)
6.00 (d)	7.69 (d)
5.90 (d)	7.69 (d)
5.80 (d)	7.69 (d)
5.70 (d)	7.69 (d)
5.60 (d)	7.69 (d)
5.50 (d)	7.69 (d)
5.40 (d)	7.69 (d)
5.30 (d)	7.69 (d)
5.20 (d)	7.69 (d)
5.10 (d)	7.69 (d)
5.00 (d)	7.69 (d)
4.90 (d)	7.69 (d)
4.80 (d)	7.69 (d)
4.70 (d)	7.69 (d)
4.60 (d)	7.69 (d)
4.50 (d)	7.69 (d)
4.40 (d)	7.69 (d)
4.30 (d)	7.69 (d)
4.20 (d)	7.69 (d)
4.10 (d)	7.69 (d)
4.00 (d)	7.69 (d)
3.90 (d)	7.69 (d)
3.80 (d)	7.69 (d)
3.70 (d)	7.69 (d)
3.60 (d)	7.69 (d)
3.50 (d)	7.69 (d)
3.40 (d)	7.69 (d)
3.30 (d)	7.69 (d)
3.20 (d)	7.69 (d)
3.10 (d)	7.69 (d)
3.00 (d)	7.69 (d)
2.90 (d)	7.69 (d)
2.80 (d)	7.69 (d)
2.70 (d)	7.69 (d)
2.60 (d)	7.69 (d)
2.50 (d)	7.69 (d)
2.40 (d)	7.69 (d)
2.30 (d)	7.69 (d)
2.20 (d)	7.69 (d)
2.10 (d)	7.69 (d)
2.00 (d)	7.69 (d)
1.90 (d)	7.69 (d)
1.80 (d)	7.69 (d)
1.70 (d)	7.69 (d)
1.60 (d)	7.69 (d)
1.50 (d)	7.69 (d)
1.40 (d)	7.69 (d)
1.30 (d)	7.69 (d)
1.20 (d)	7.69 (d)
1.10 (d)	7.69 (d)
1.00 (d)	7.69 (d)
0.90 (d)	7.69 (d)
0.80 (d)	7.69 (d)
0.70 (d)	7.69 (d)
0.60 (d)	7.69 (d)
0.50 (d)	7.69 (d)
0.40 (d)	7.69 (d)
0.30 (d)	7.69 (d)
0.20 (d)	7.69 (d)
0.10 (d)	7.69 (d)
0.00 (d)	7.69 (d)

DS 4 31440252 H7

Index	Time (sec)
AO	1.0422809

DW	15.903 usec
----	-------------

TE	0.0 K
27	0.000000

CLP	0.00002000 sec
ITP	0.03000000 sec

CH

P1 5.20 usec

SFO1	125.6967620 MHz
------	-----------------

CPDPRC2 waltz16

PCPD2 72.60 usec

PL12	19.00 dB
------	----------

SFO2	499.8315000 MHz
------	-----------------

SI	65536
----	-------

WDW	EM
-----	----

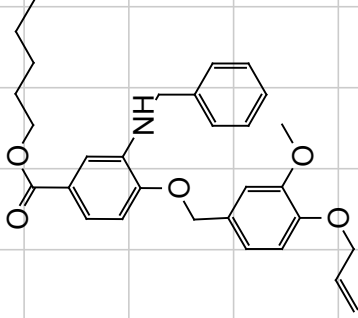
1.00 Hz
LB

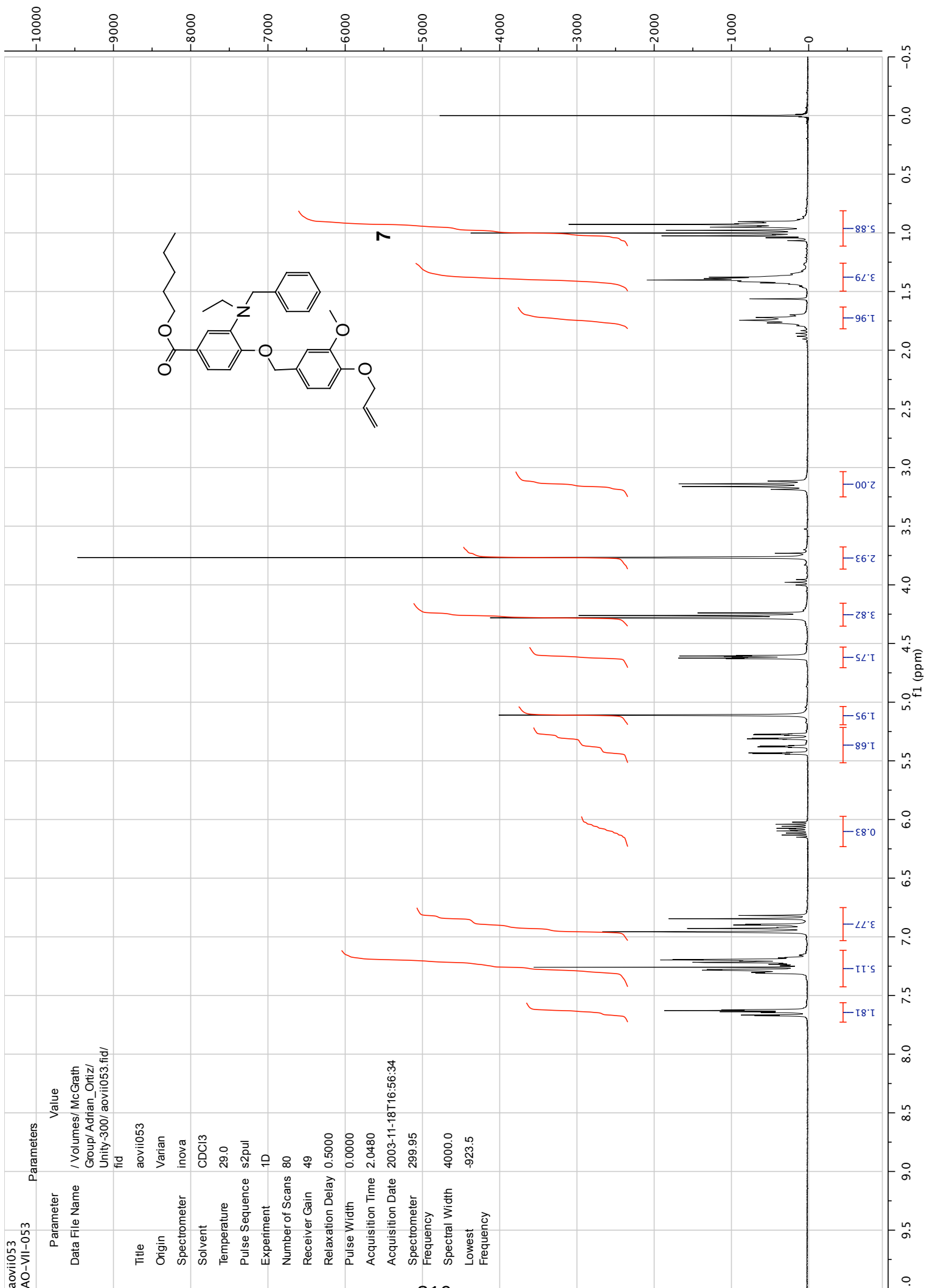
PC 1.00

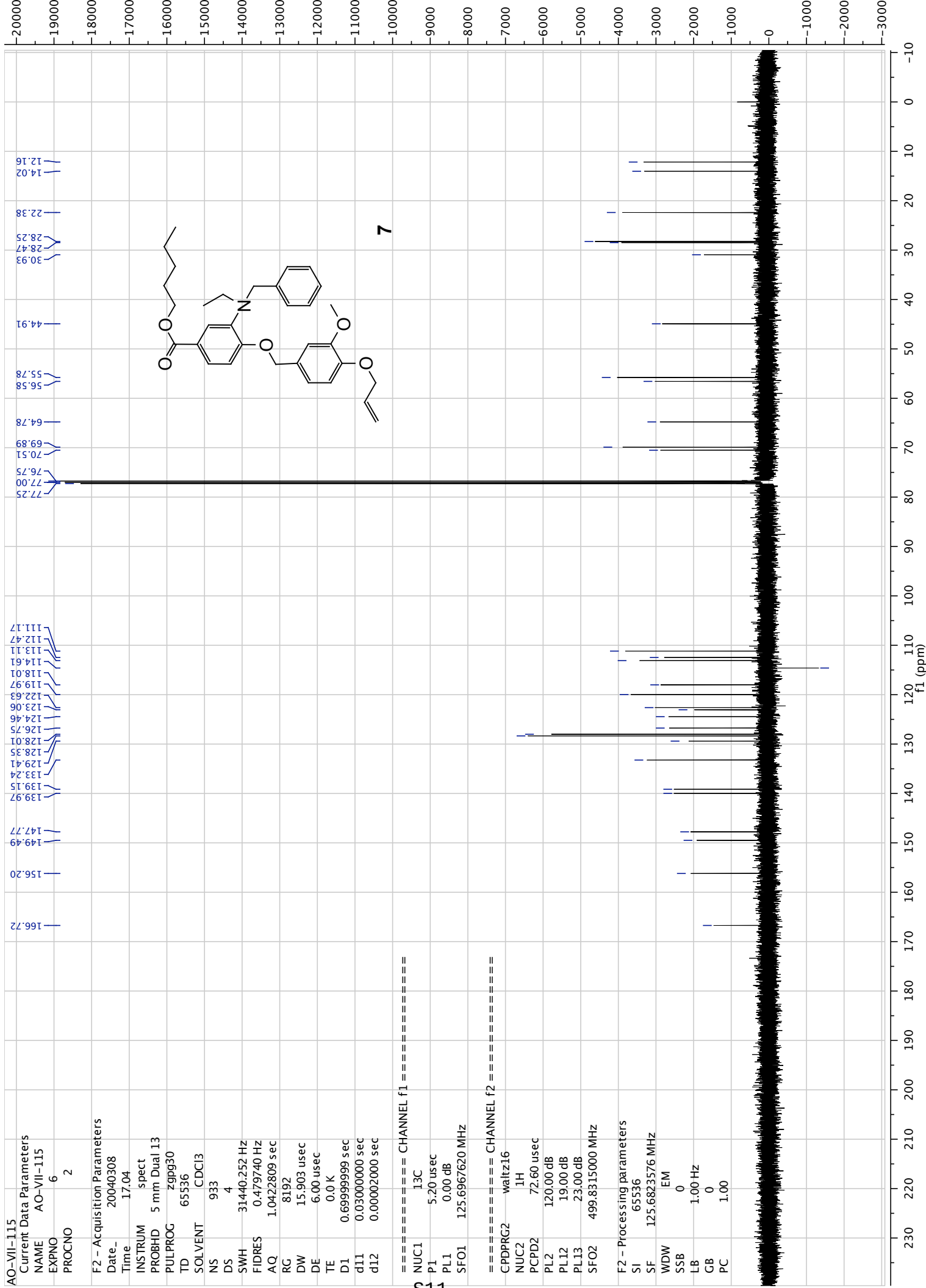
100

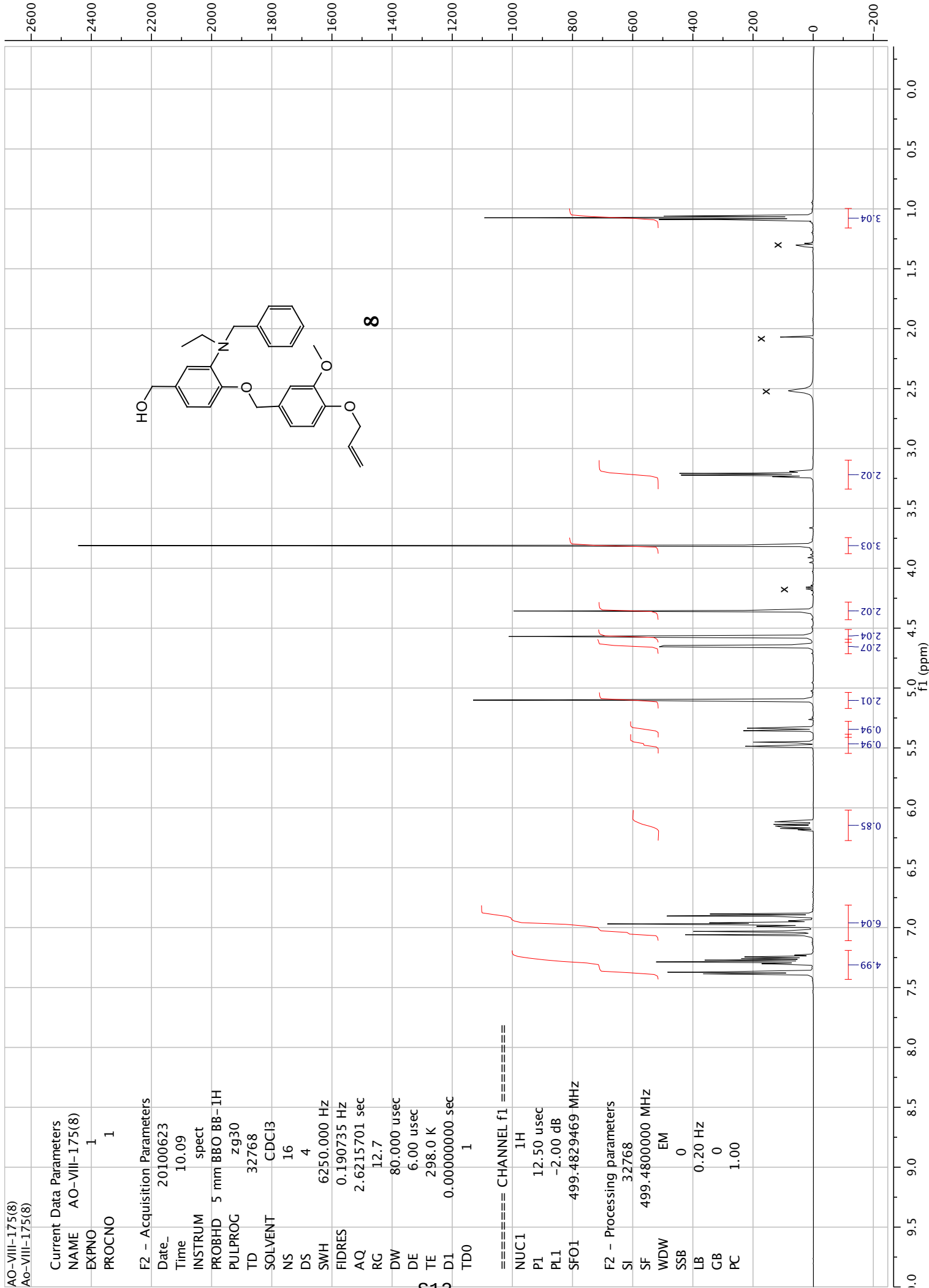
230 220 210

S9









Current Data Parameters

NAME AO-VII-175
EXPNO 7
PROCNO 2

F2 - Acquisition Parameters

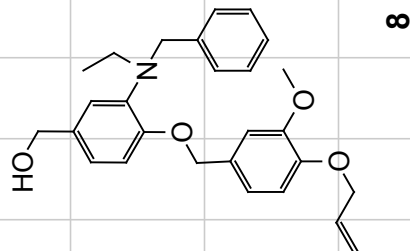
Date_ 20040308
Time 17:25
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 173
DS 4
SWH 31440.252 Hz
FIDRES 0.479740 Hz
AQ 1.0422809 sec
RG 8192
DW 15.903 usec
DE 6.00 usec
TE 0.0 K
D1 0.69999999 sec
d11 0.03000000 sec
d12 0.00002000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 5.20 usec
PL1 0.00 dB
SFO1 125.6967620 MHz

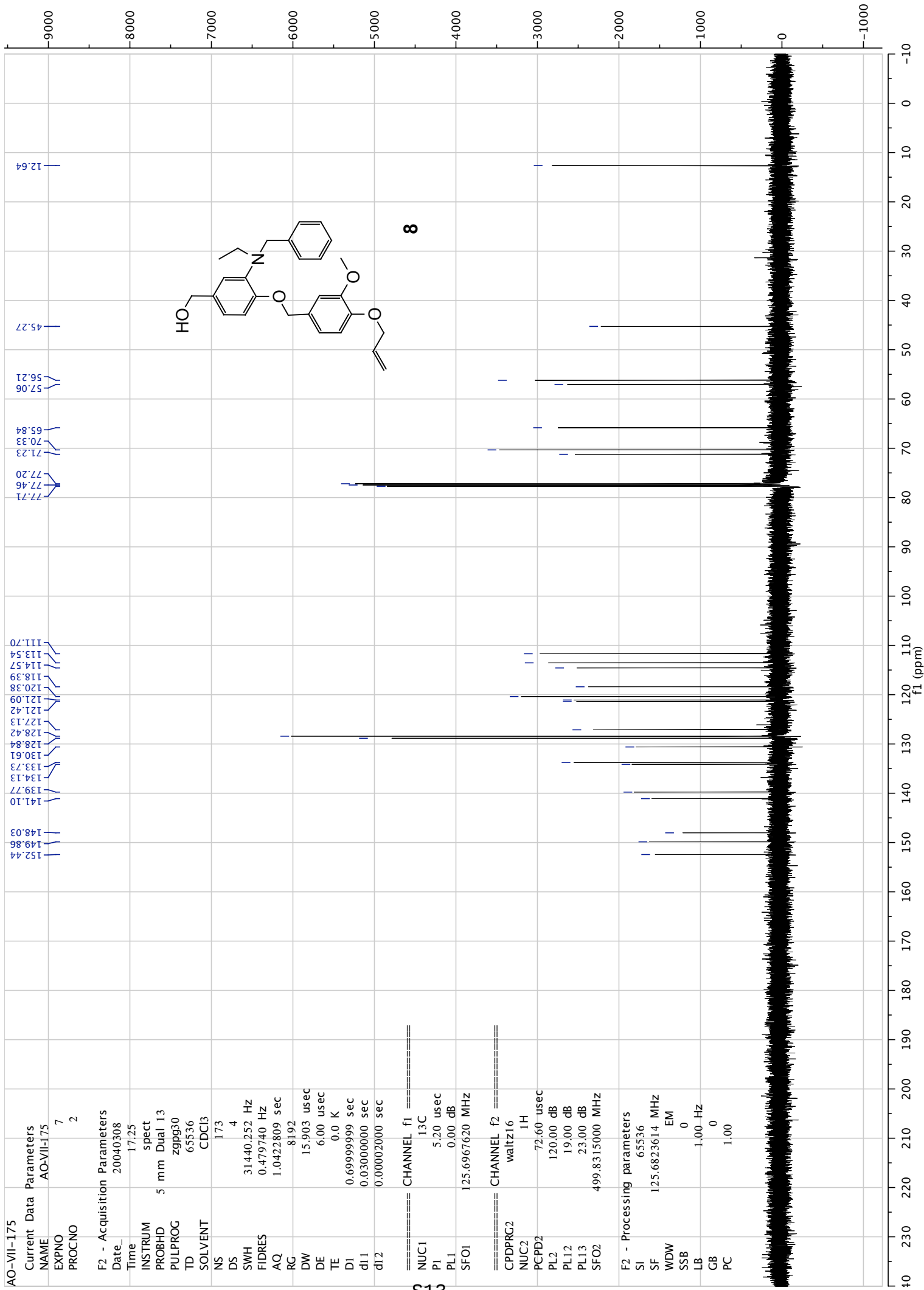
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 72.60 usec
PL2 120.00 dB
PL12 19.00 dB
PL13 23.00 dB
SFO2 499.8315000 MHz

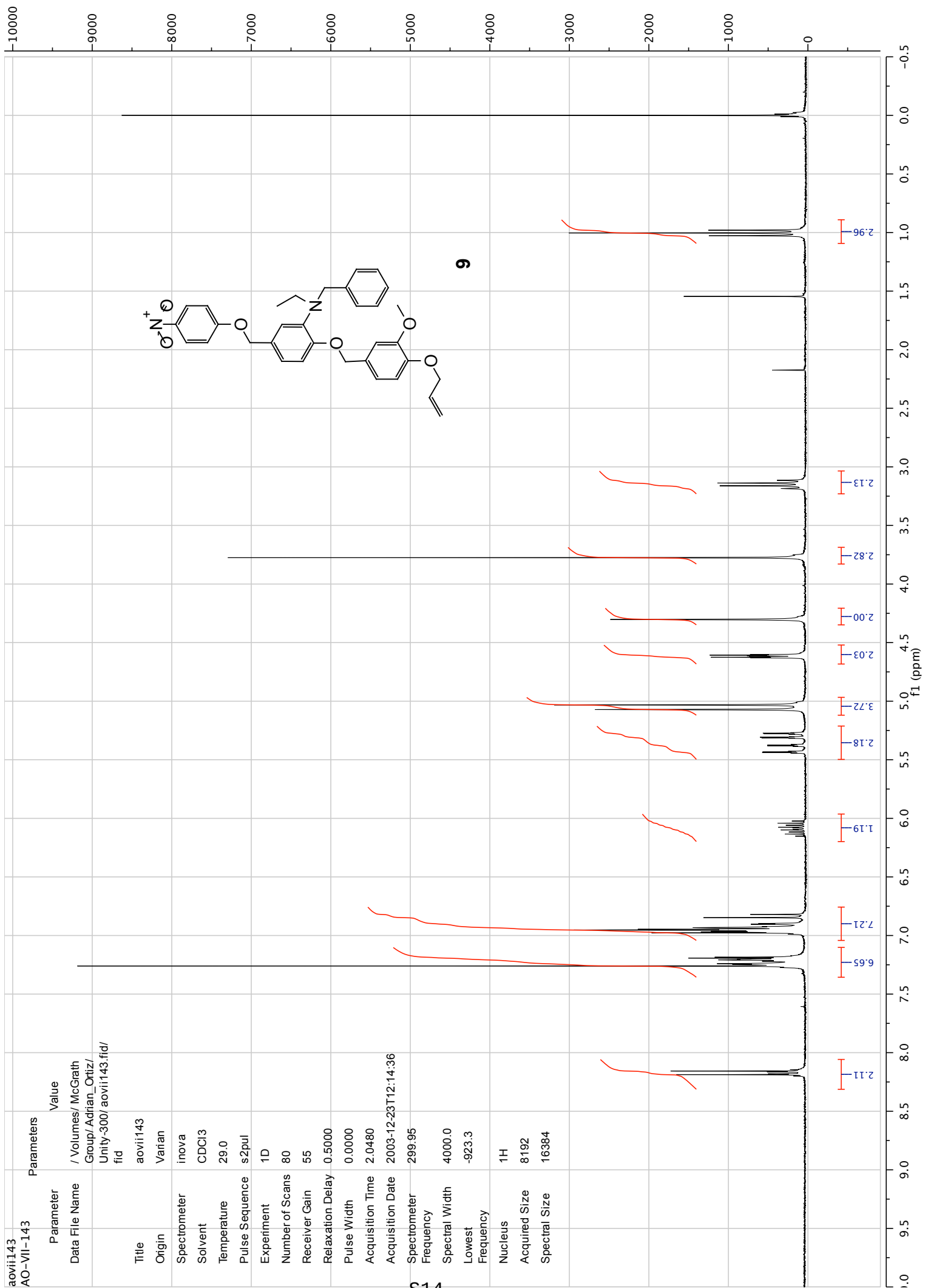
F2 - Processing parameters

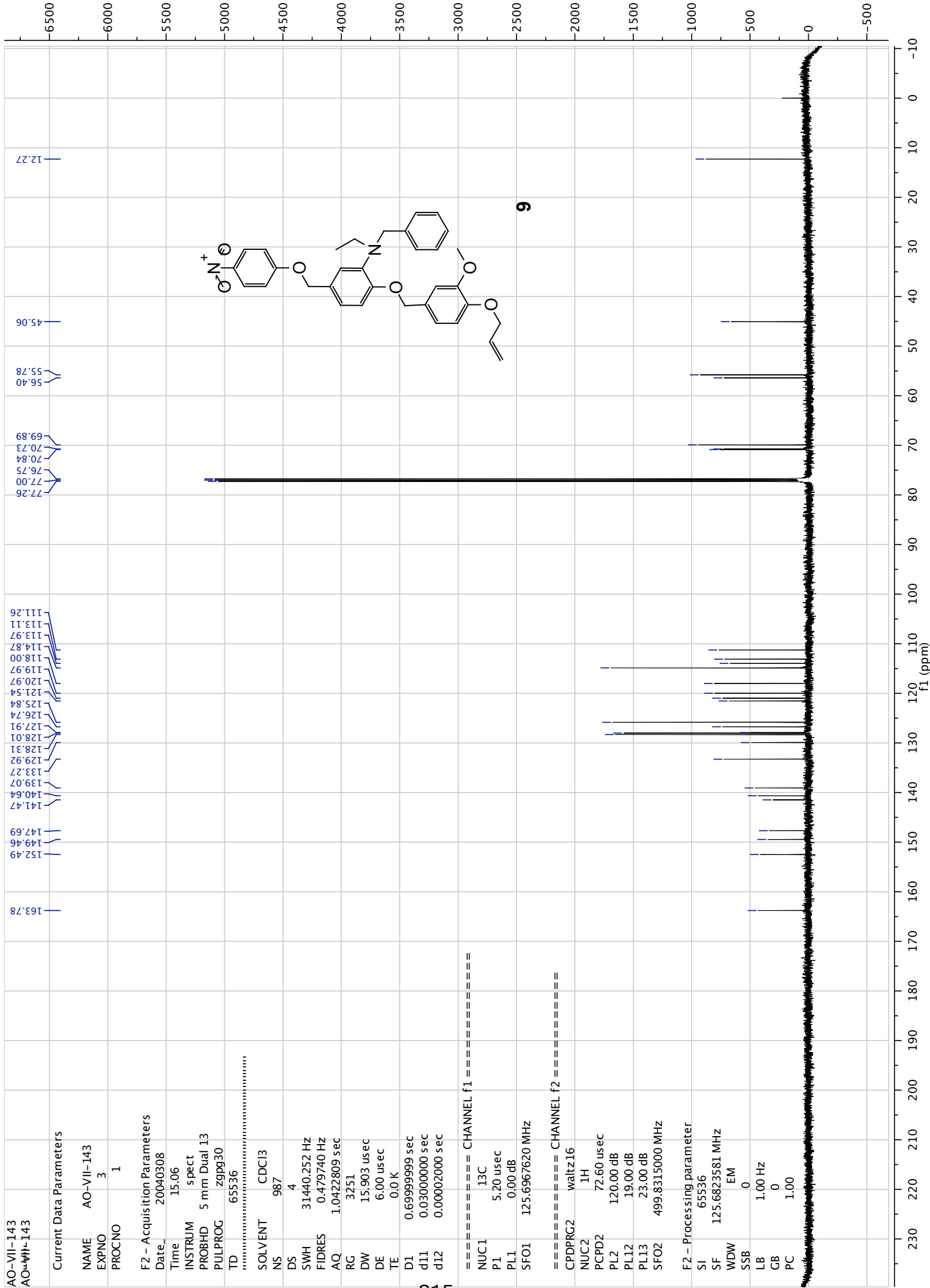
SI 65536
SF 125.6823614 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.00

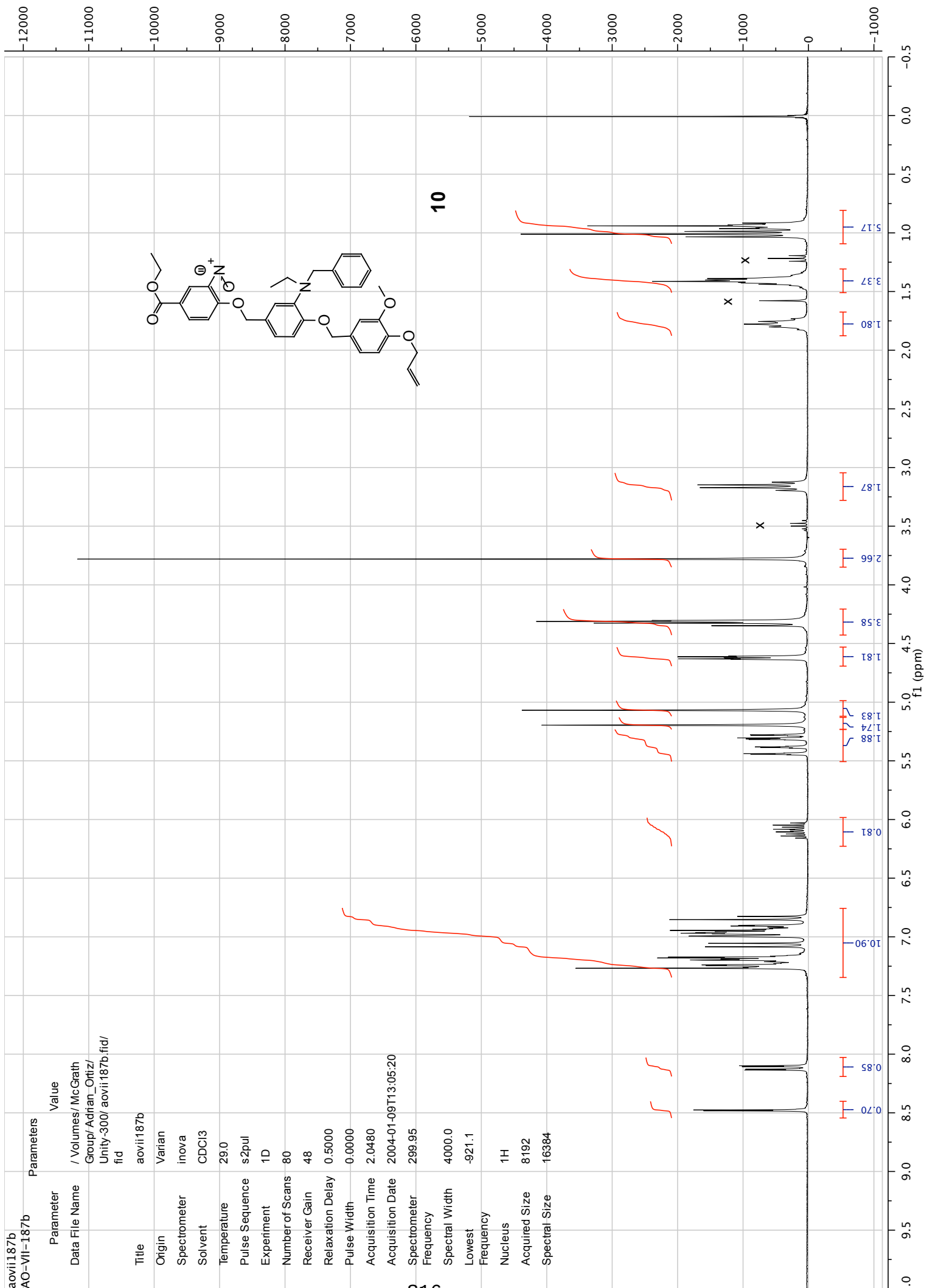


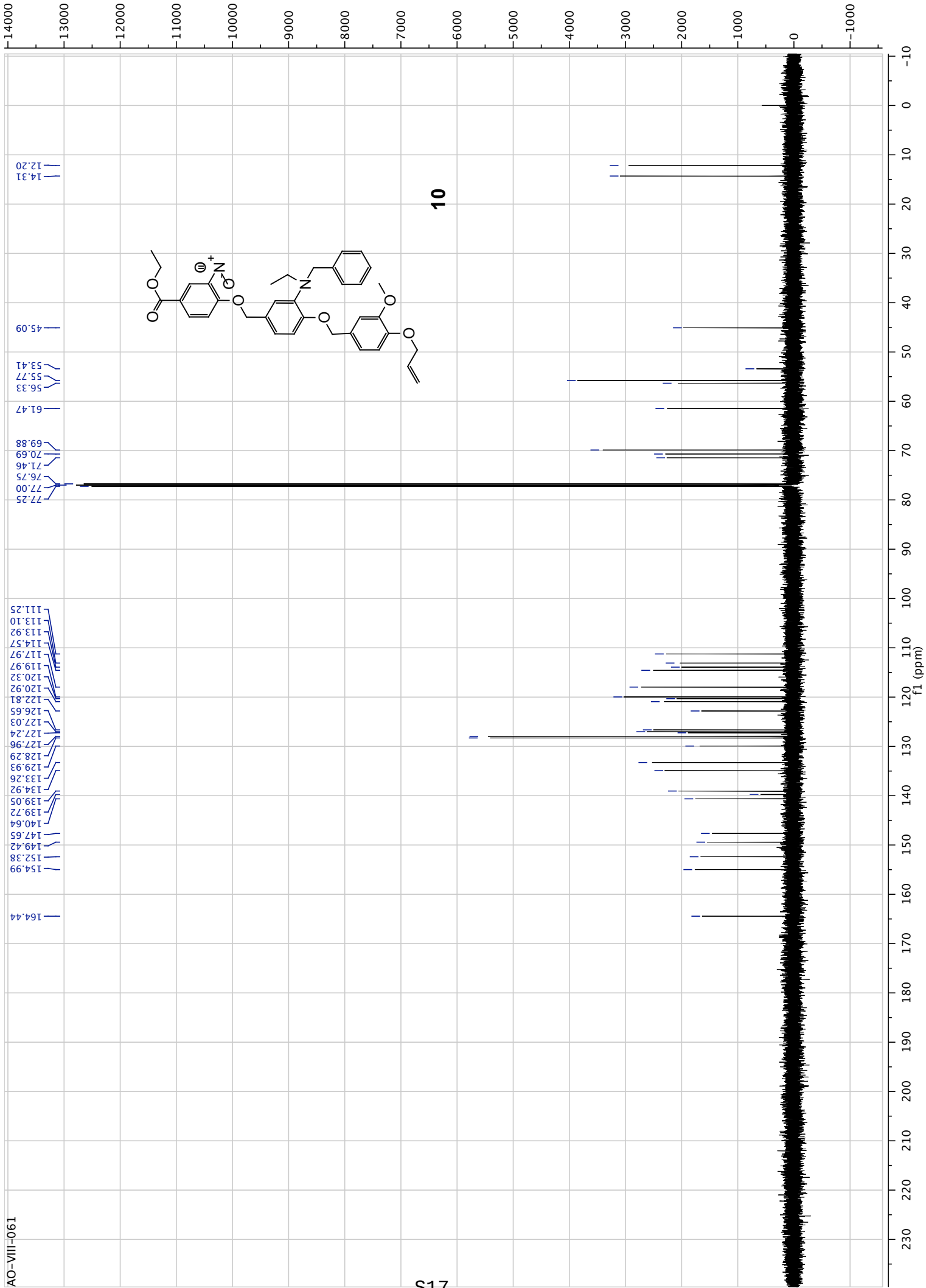
8

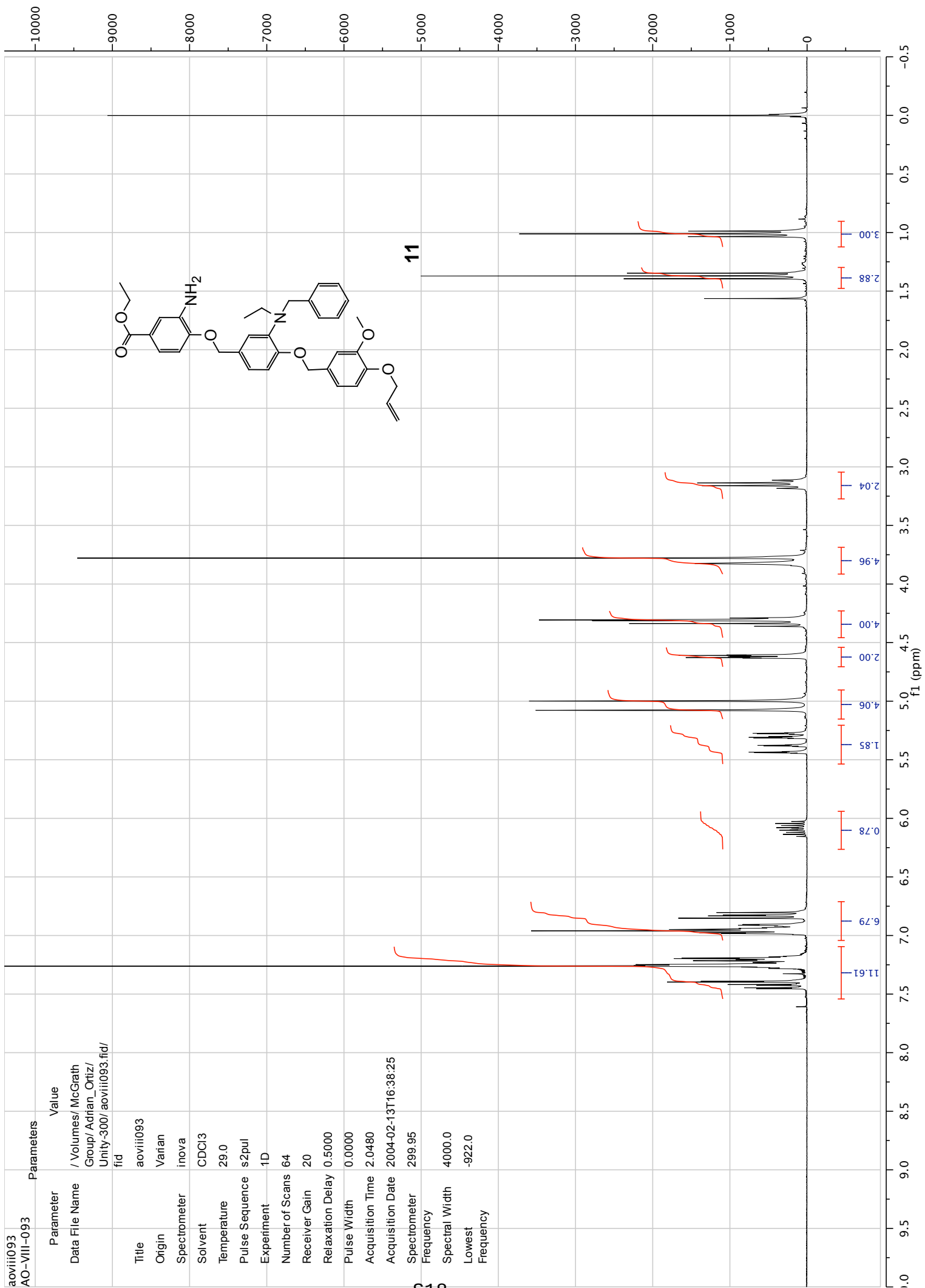


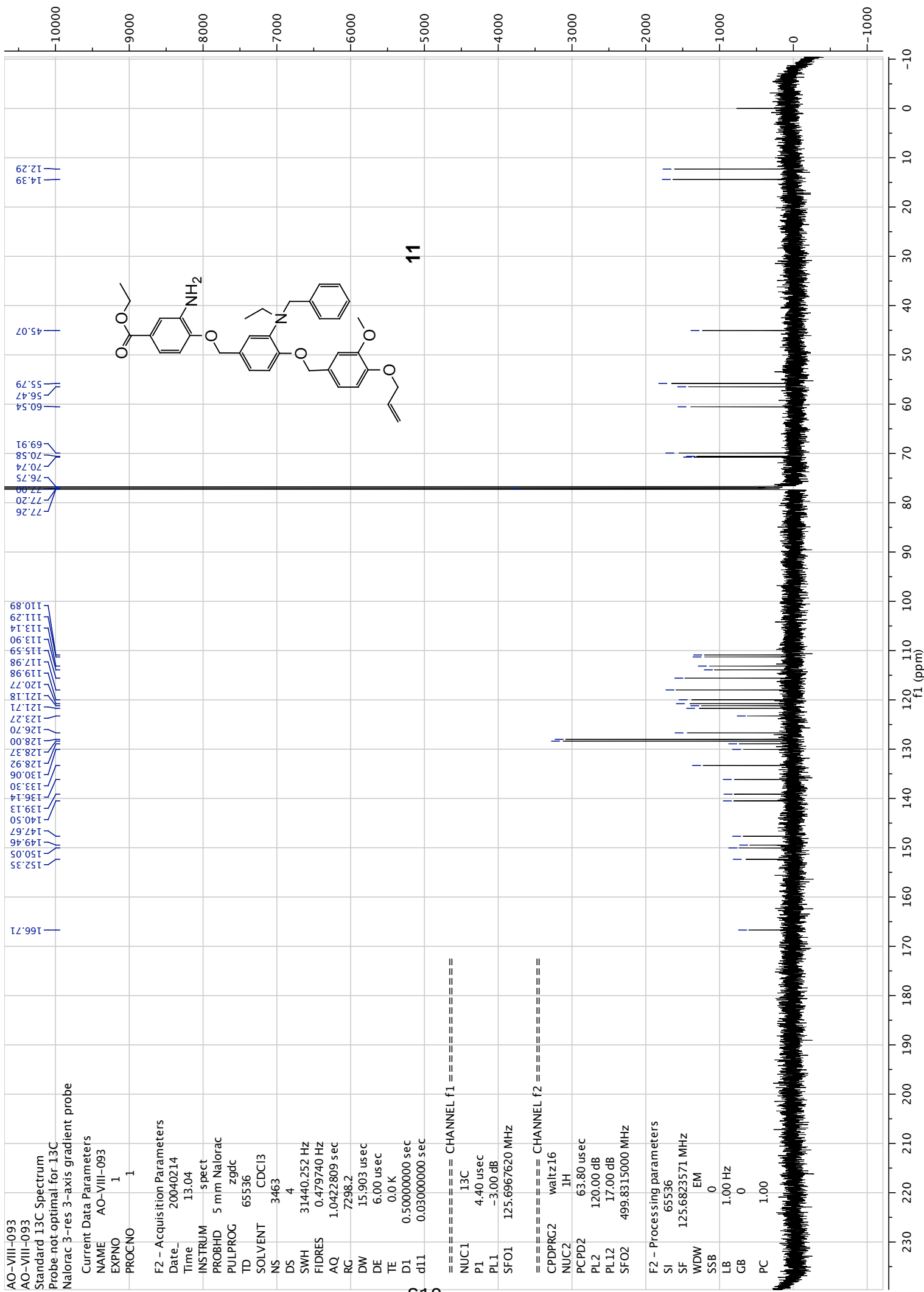


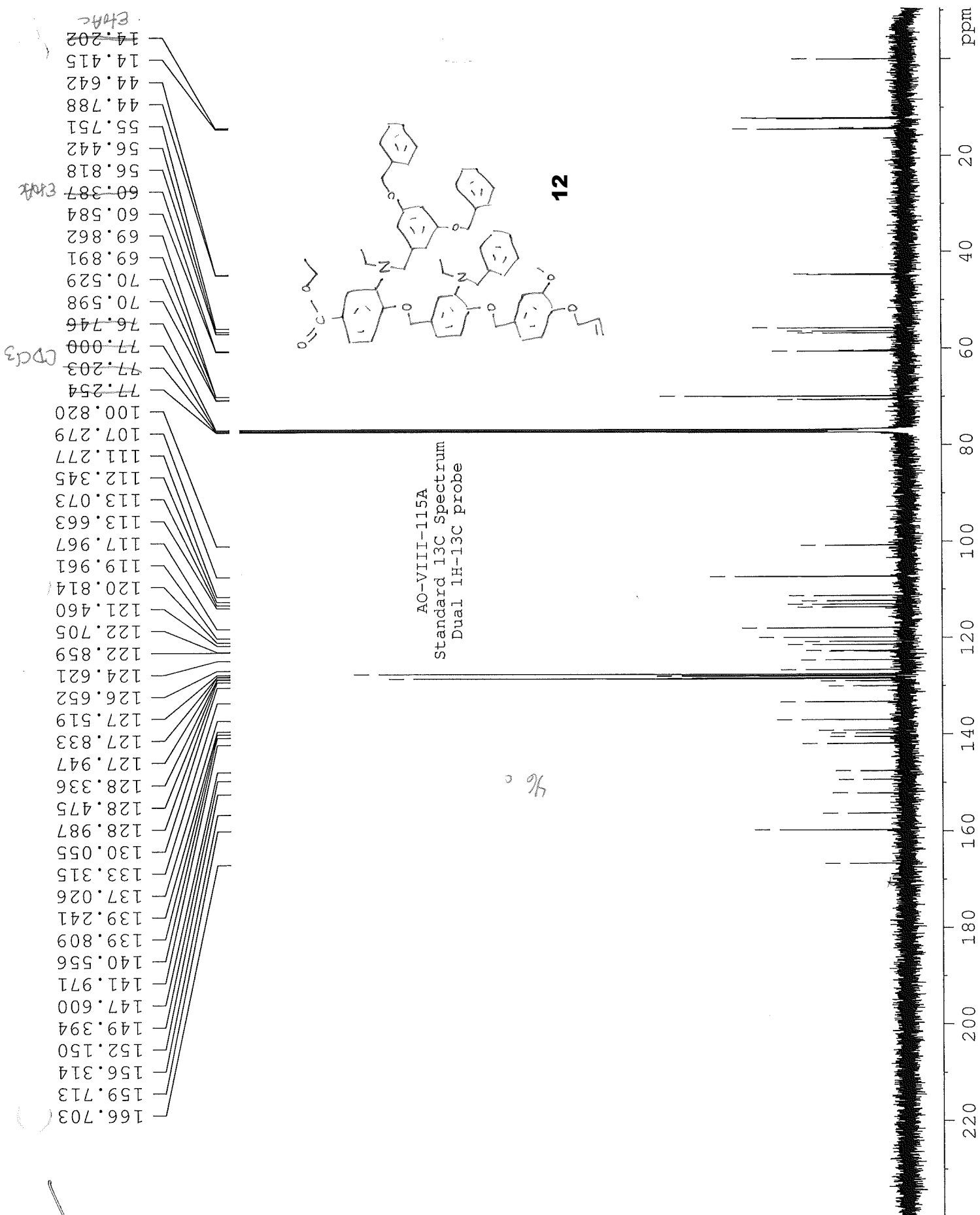












Current Data Parameters	
NAME	AO-VIII-113d
EXPNO	3
PROCNO	2

Date_	20040314
Time	10.41

PROBHD 5 mm Dual 13

TD	65536
----	-------

	NS	1280
1	0.0000	0.0000
2	0.0000	0.0000
3	0.0000	0.0000
4	0.0000	0.0000
5	0.0000	0.0000
6	0.0000	0.0000
7	0.0000	0.0000
8	0.0000	0.0000
9	0.0000	0.0000
10	0.0000	0.0000
11	0.0000	0.0000
12	0.0000	0.0000
13	0.0000	0.0000
14	0.0000	0.0000
15	0.0000	0.0000
16	0.0000	0.0000
17	0.0000	0.0000
18	0.0000	0.0000
19	0.0000	0.0000
20	0.0000	0.0000
21	0.0000	0.0000
22	0.0000	0.0000
23	0.0000	0.0000
24	0.0000	0.0000
25	0.0000	0.0000
26	0.0000	0.0000
27	0.0000	0.0000
28	0.0000	0.0000
29	0.0000	0.0000
30	0.0000	0.0000
31	0.0000	0.0000
32	0.0000	0.0000
33	0.0000	0.0000
34	0.0000	0.0000
35	0.0000	0.0000
36	0.0000	0.0000
37	0.0000	0.0000
38	0.0000	0.0000
39	0.0000	0.0000
40	0.0000	0.0000
41	0.0000	0.0000
42	0.0000	0.0000
43	0.0000	0.0000
44	0.0000	0.0000
45	0.0000	0.0000
46	0.0000	0.0000
47	0.0000	0.0000
48	0.0000	0.0000
49	0.0000	0.0000
50	0.0000	0.0000
51	0.0000	0.0000
52	0.0000	0.0000
53	0.0000	0.0000
54	0.0000	0.0000
55	0.0000	0.0000
56	0.0000	0.0000
57	0.0000	0.0000
58	0.0000	0.0000
59	0.0000	0.0000
60	0.0000	0.0000
61	0.0000	0.0000
62	0.0000	0.0000
63	0.0000	0.0000
64	0.0000	0.0000
65	0.0000	0.0000
66	0.0000	0.0000
67	0.0000	0.0000
68	0.0000	0.0000
69	0.0000	0.0000
70	0.0000	0.0000
71	0.0000	0.0000
72	0.0000	0.0000
73	0.0000	0.0000
74	0.0000	0.0000
75	0.0000	0.0000
76	0.0000	0.0000
77	0.0000	0.0000
78	0.0000	0.0000
79	0.0000	0.0000
80	0.0000	0.0000
81	0.0000	0.0000
82	0.0000	0.0000
83	0.0000	0.0000
84	0.0000	0.0000
85	0.0000	0.0000
86	0.0000	0.0000
87	0.0000	0.0000
88	0.0000	0.0000
89	0.0000	0.0000
90	0.0000	0.0000
91	0.0000	0.0000
92	0.0000	0.0000
93	0.0000	0.0000
94	0.0000	0.0000
95	0.0000	0.0000
96	0.0000	0.0000
97	0.0000	0.0000
98	0.0000	0.0000
99	0.0000	0.0000
100	0.0000	0.0000

SWH	31440.252 Hz
-----	--------------

AQ	1.0422809 sec
----	---------------

DW	15.903 usec
----	-------------

TE 0.0 K

d11	0.03000000 sec
-----	----------------

NUC1	¹³ C
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

PL1	0.00 dB
-----	---------

CPDPRG2	waltz16
---------	---------

PCPD2	72.60 used
-------	------------

PL12	19.00 dB
------	----------

SFO2	499.8315000 M
------	---------------

SI	65536
----	-------

	WDW	EM
1	0.0000	0.0000
2	0.0000	0.0000
3	0.0000	0.0000
4	0.0000	0.0000
5	0.0000	0.0000
6	0.0000	0.0000
7	0.0000	0.0000
8	0.0000	0.0000
9	0.0000	0.0000
10	0.0000	0.0000
11	0.0000	0.0000
12	0.0000	0.0000
13	0.0000	0.0000
14	0.0000	0.0000
15	0.0000	0.0000
16	0.0000	0.0000
17	0.0000	0.0000
18	0.0000	0.0000
19	0.0000	0.0000
20	0.0000	0.0000
21	0.0000	0.0000
22	0.0000	0.0000
23	0.0000	0.0000
24	0.0000	0.0000
25	0.0000	0.0000
26	0.0000	0.0000
27	0.0000	0.0000
28	0.0000	0.0000
29	0.0000	0.0000
30	0.0000	0.0000
31	0.0000	0.0000
32	0.0000	0.0000
33	0.0000	0.0000
34	0.0000	0.0000
35	0.0000	0.0000
36	0.0000	0.0000
37	0.0000	0.0000
38	0.0000	0.0000
39	0.0000	0.0000
40	0.0000	0.0000
41	0.0000	0.0000
42	0.0000	0.0000
43	0.0000	0.0000
44	0.0000	0.0000
45	0.0000	0.0000
46	0.0000	0.0000
47	0.0000	0.0000
48	0.0000	0.0000
49	0.0000	0.0000
50	0.0000	0.0000
51	0.0000	0.0000
52	0.0000	0.0000
53	0.0000	0.0000
54	0.0000	0.0000
55	0.0000	0.0000
56	0.0000	0.0000
57	0.0000	0.0000
58	0.0000	0.0000
59	0.0000	0.0000
60	0.0000	0.0000
61	0.0000	0.0000
62	0.0000	0.0000
63	0.0000	0.0000
64	0.0000	0.0000
65	0.0000	0.0000
66	0.0000	0.0000
67	0.0000	0.0000
68	0.0000	0.0000
69	0.0000	0.0000
70	0.0000	0.0000
71	0.0000	0.0000
72	0.0000	0.0000
73	0.0000	0.0000
74	0.0000	0.0000
75	0.0000	0.0000
76	0.0000	0.0000
77	0.0000	0.0000
78	0.0000	0.0000
79	0.0000	0.0000
80	0.0000	0.0000
81	0.0000	0.0000
82	0.0000	0.0000
83	0.0000	0.0000
84	0.0000	0.0000
85	0.0000	0.0000
86	0.0000	0.0000
87	0.0000	0.0000
88	0.0000	0.0000
89	0.0000	0.0000
90	0.0000	0.0000
91	0.0000	0.0000
92	0.0000	0.0000
93	0.0000	0.0000
94	0.0000	0.0000
95	0.0000	0.0000
96	0.0000	0.0000
97	0.0000	0.0000
98	0.0000	0.0000
99	0.0000	0.0000
100	0.0000	0.0000

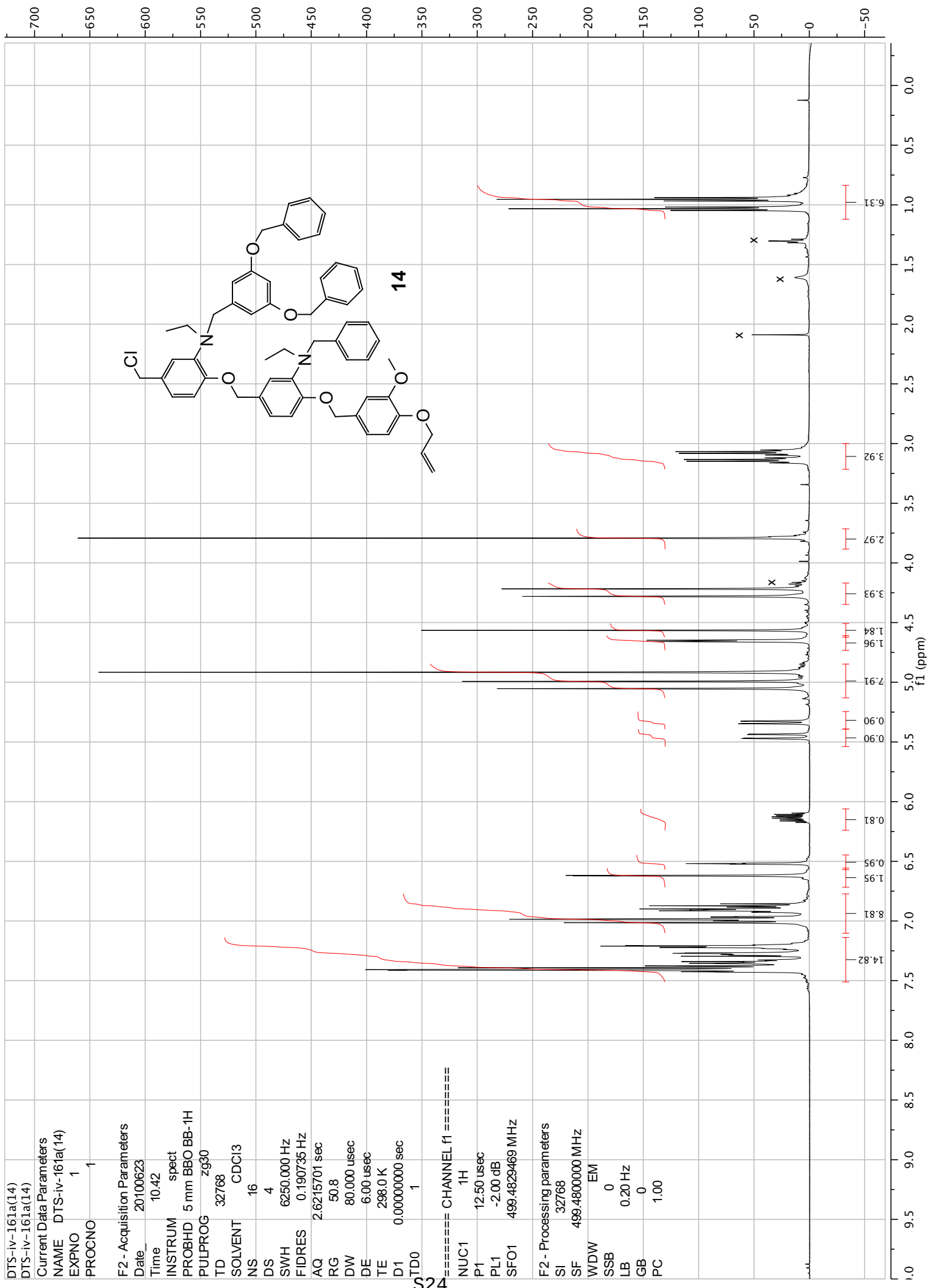
1.00 Hz
LB

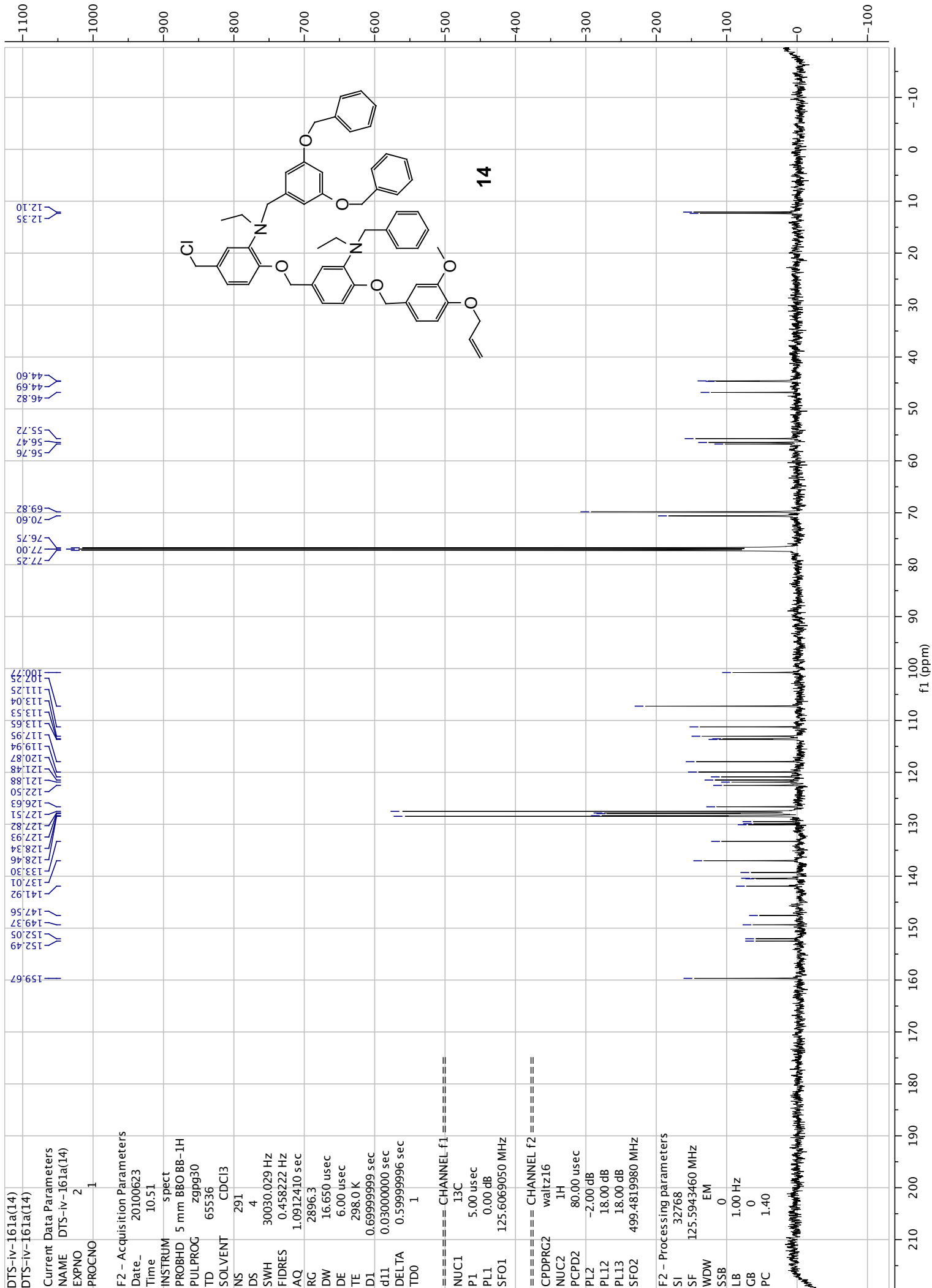
PC 1.00

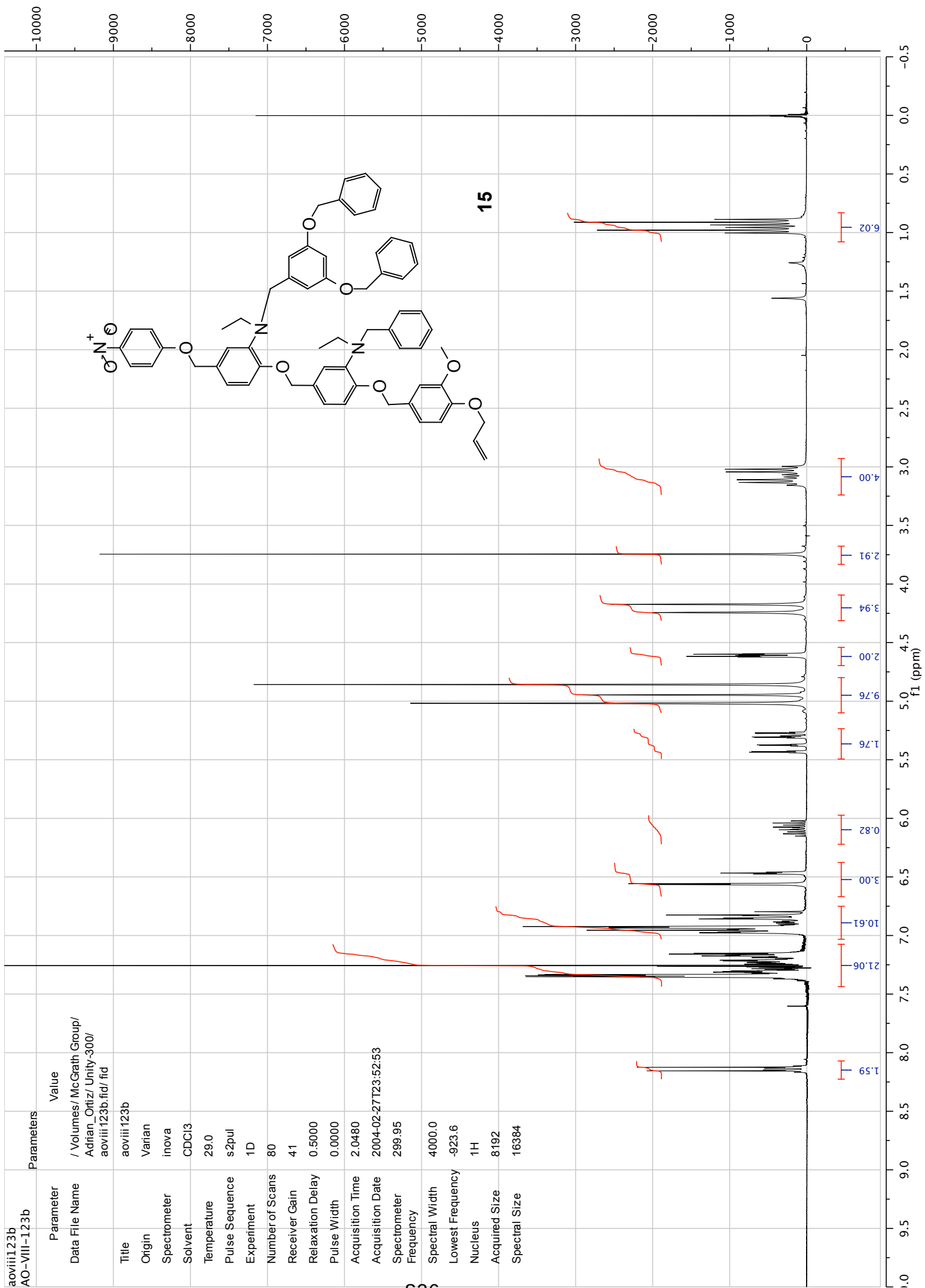
and a large number of other people, and the

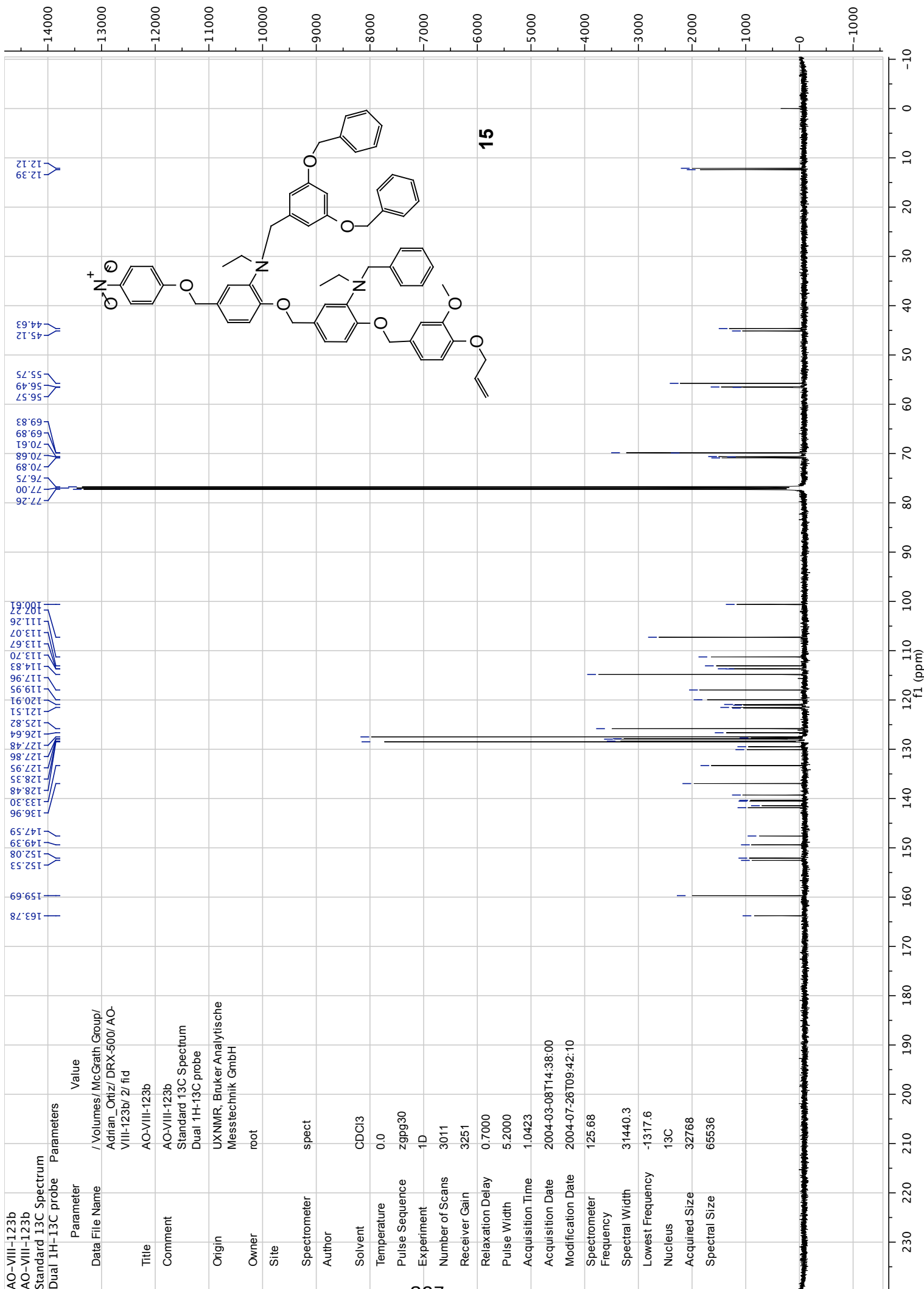
017 220 037

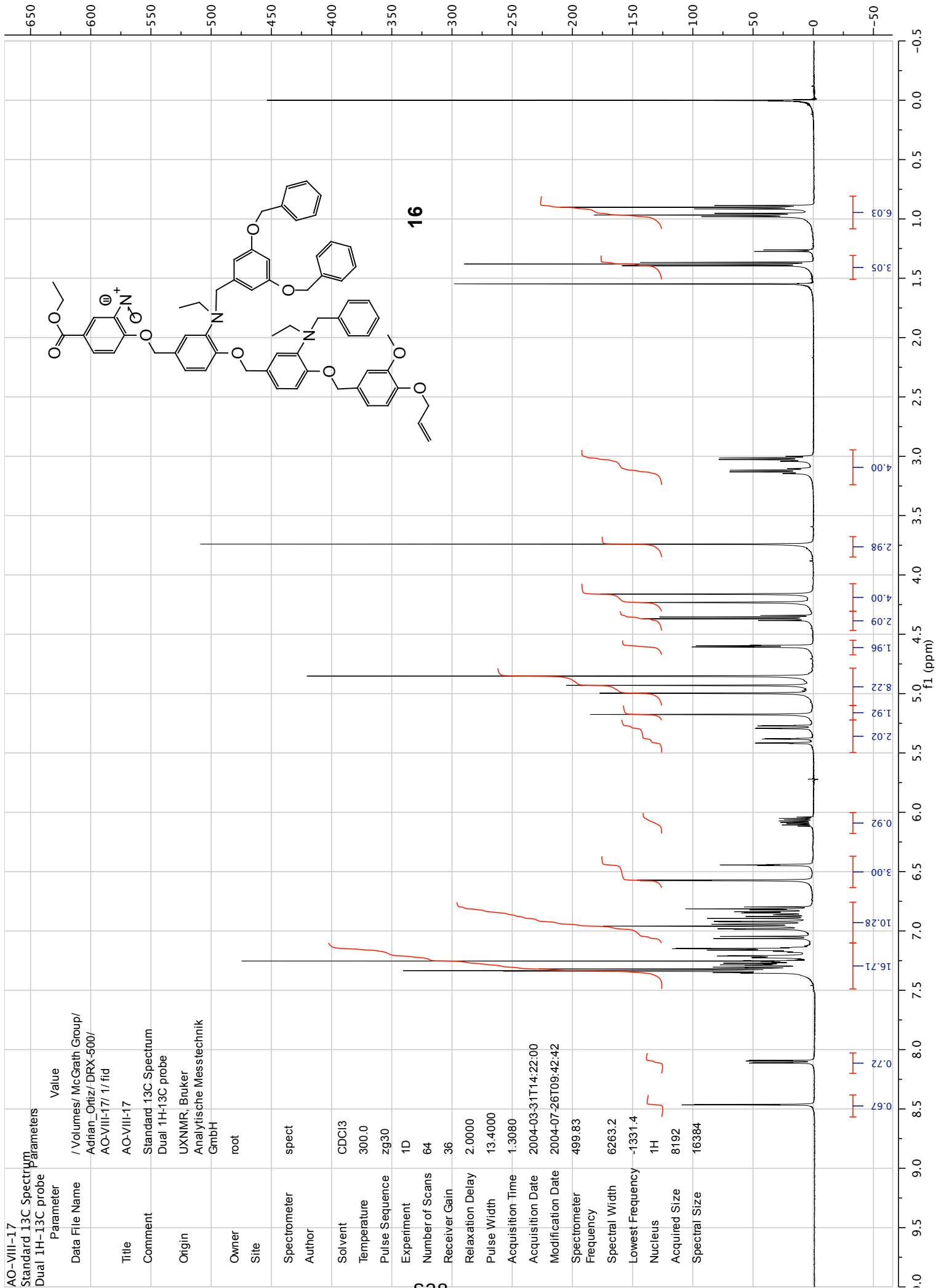
CCN(CC)c1ccc(CO)cc1OCc2ccc(OCc3ccccc3)cc2OCc4ccc(OCc5ccccc5)cc4OCc6ccc(OCc7ccccc7)cc6OCc8ccc(OCc9ccccc9)cc8OCc10ccc(OCc11ccccc11)cc10OCc12ccc(OCc13ccccc13)cc12OCc14ccc(OCc15ccccc15)cc14OCc16ccc(OCc17ccccc17)cc16OCc18ccc(OCc19ccccc19)cc18OCc20ccc(OCc21ccccc21)cc20OCc22ccc(OCc23ccccc23)cc22OCc24ccc(OCc25ccccc25)cc24OCc26ccc(OCc27ccccc27)cc26OCc28ccc(OCc29ccccc29)cc28OCc30ccc(OCc31ccccc31)cc30OCc32ccc(OCc33ccccc33)cc32OCc34ccc(OCc35ccccc35)cc34OCc36ccc(OCc37ccccc37)cc36OCc38ccc(OCc39ccccc39)cc38OCc40ccc(OCc41ccccc41)cc40OCc42ccc(OCc43ccccc43)cc42OCc44ccc(OCc45ccccc45)cc44OCc46ccc(OCc47ccccc47)cc46OCc48ccc(OCc49ccccc49)cc48OCc50ccc(OCc51ccccc51)cc50OCc52ccc(OCc53ccccc53)cc52OCc54ccc(OCc55ccccc55)cc54OCc56ccc(OCc57ccccc57)cc56OCc58ccc(OCc59ccccc59)cc58OCc60ccc(OCc61ccccc61)cc60OCc62ccc(OCc63ccccc63)cc62OCc64ccc(OCc65ccccc65)cc64OCc66ccc(OCc67ccccc67)cc66OCc68ccc(OCc69ccccc69)cc68OCc70ccc(OCc71ccccc71)cc70OCc72ccc(OCc73ccccc73)cc72OCc74ccc(OCc75ccccc75)cc74OCc76ccc(OCc77ccccc77)cc76OCc78ccc(OCc79ccccc79)cc78OCc80ccc(OCc81ccccc81)cc80OCc82ccc(OCc83ccccc83)cc82OCc84ccc(OCc85ccccc85)cc84OCc86ccc(OCc87ccccc87)cc86OCc88ccc(OCc89ccccc89)cc88OCc90ccc(OCc91ccccc91)cc90OCc92ccc(OCc93ccccc93)cc92OCc94ccc(OCc95ccccc95)cc94OCc96ccc(OCc97ccccc97)cc96OCc98ccc(OCc99ccccc99)cc98OCc100ccc(OCc101ccccc101)cc100OCc102ccc(OCc103ccccc103)cc102OCc104ccc(OCc105ccccc105)cc104OCc106ccc(OCc107ccccc107)cc106OCc108ccc(OCc109ccccc109)cc108OCc110ccc(OCc111ccccc111)cc110OCc112ccc(OCc113ccccc113)cc112OCc114ccc(OCc115ccccc115)cc114OCc116ccc(OCc117ccccc117)cc116OCc118ccc(OCc119ccccc119)cc118OCc120ccc(OCc121ccccc121)cc120OCc122ccc(OCc123ccccc123)cc122OCc124ccc(OCc125ccccc125)cc124OCc126ccc(OCc127ccccc127)cc126OCc128ccc(OCc129ccccc129)cc128OCc130ccc(OCc131ccccc131)cc130OCc132ccc(OCc133ccccc133)cc132OCc134ccc(OCc135ccccc135)cc134OCc136ccc(OCc137ccccc137)cc136OCc138ccc(OCc139ccccc139)cc138OCc140ccc(OCc141ccccc141)cc140OCc142ccc(OCc143ccccc143)cc142OCc144ccc(OCc145ccccc145)cc144OCc146ccc(OCc147ccccc147)cc146OCc148ccc(OCc149ccccc149)cc148OCc150ccc(OCc151ccccc151)cc150OCc152ccc(OCc153ccccc153)cc152OCc154ccc(OCc155ccccc155)cc154OCc156ccc(OCc157ccccc157)cc156OCc158ccc(OCc159ccccc159)cc158OCc160ccc(OCc161ccccc161)cc160OCc162ccc(OCc163ccccc163)cc162OCc164ccc(OCc165ccccc165)cc164OCc166ccc(OCc167ccccc167)cc166OCc168ccc(OCc169ccccc169)cc168OCc170ccc(OCc171ccccc171)cc170OCc172ccc(OCc173ccccc173)cc172OCc174ccc(OCc175ccccc175)cc174OCc176ccc(OCc177ccccc177)cc176OCc178ccc(OCc179ccccc179)cc178OCc180ccc(OCc181ccccc181)cc180OCc182ccc(OCc183ccccc183)cc182OCc184ccc(OCc185ccccc185)cc184OCc186ccc(OCc187ccccc187)cc186OCc188ccc(OCc189ccccc189)cc188OCc190ccc(OCc191ccccc191)cc190OCc192ccc(OCc193ccccc193)cc192OCc194ccc(OCc195ccccc195)cc194OCc196ccc(OCc197ccccc197)cc196OCc198ccc(OCc199ccccc199)cc198OCc200ccc(OCc201ccccc201)cc200OCc202ccc(OCc203ccccc203)cc202OCc204ccc(OCc205ccccc205)cc204OCc206ccc(OCc207ccccc207)cc206OCc208ccc(OCc209ccccc209)cc208OCc210ccc(OCc211ccccc211)cc210OCc212ccc(OCc213ccccc213)cc212OCc214ccc(OCc215ccccc215)cc214OCc216ccc(OCc217ccccc217)cc216OCc218ccc(OCc219ccccc219)cc218OCc220ccc(OCc221ccccc221)cc220OCc222ccc(OCc223ccccc223)cc222OCc224ccc(OCc225ccccc225)cc224OCc226ccc(OCc227ccccc227)cc226OCc228ccc(OCc229ccccc229)cc228OCc230ccc(OCc231ccccc231)cc230OCc232ccc(OCc233ccccc233)cc232OCc234ccc(OCc235ccccc235)cc234OCc236ccc(OCc237ccccc237)cc236OCc238ccc(OCc239ccccc239)cc238OCc240ccc(OCc241ccccc241)cc240OCc242ccc(OCc243ccccc243)cc242OCc244ccc(OCc245ccccc245)cc244OCc246ccc(OCc247ccccc247)cc246OCc248ccc(OCc249ccccc249)cc248OCc250ccc(OCc251ccccc251)cc250OCc252ccc(OCc253ccccc253)cc252OCc254ccc(OCc255ccccc255)cc254OCc256ccc(OCc257ccccc257)cc256OCc258ccc(OCc259ccccc259)cc258OCc260ccc(OCc261ccccc261)cc260OCc262ccc(OCc263ccccc263)cc262OCc264ccc(OCc265ccccc265)cc264OCc266ccc(OCc267ccccc267)cc266OCc268ccc(OCc269ccccc269)cc268OCc270ccc(OCc271ccccc271)cc270OCc272ccc(OCc273ccccc273)cc272OCc274ccc(OCc275ccccc275)cc274OCc276ccc(OCc277ccccc277)cc276OCc278ccc(OCc279ccccc279)cc278OCc280ccc(OCc281ccccc281)cc280OCc282ccc(OCc283ccccc283)cc282OCc284ccc(OCc285ccccc285)cc284OCc286ccc(OCc287ccccc287)cc286OCc288ccc(OCc289ccccc289)cc288OCc290ccc(OCc291ccccc291)cc290OCc292ccc(OCc293ccccc293)cc292OCc294ccc(OCc295ccccc295)cc294OCc296ccc(OCc297ccccc297)cc296OCc298ccc(OCc299ccccc299)cc298OCc300ccc(OCc301ccccc301)cc300OCc302ccc(OCc303ccccc303)cc302OCc304ccc(OCc305ccccc305)cc304OCc306ccc(OCc307ccccc307)cc306OCc308ccc(OCc309ccccc309)cc308OCc310ccc(OCc311ccccc311)cc310OCc312ccc(OCc313ccccc313)cc312OCc314ccc(OCc315ccccc315)cc314OCc316ccc(OCc317ccccc317)cc316OCc318ccc(OCc319ccccc319)cc318OCc320ccc(OCc321ccccc321)cc320OCc322ccc(OCc323ccccc323)cc322OCc324ccc(OCc325ccccc325)cc324OCc326ccc(OCc327ccccc327)cc326OCc328ccc(OCc329ccccc329)cc328OCc330ccc(OCc331ccccc331)cc330OCc332ccc(OCc333ccccc333)cc332OCc334ccc(OCc335ccccc335)cc334OCc336ccc(OCc337ccccc337)cc336OCc338ccc(OCc339ccccc339)cc338OCc340ccc(OCc341ccccc341)cc340OCc342ccc(OCc343ccccc343)cc342OCc344ccc(OCc345ccccc345)cc344OCc346ccc(OCc347ccccc347)cc346OCc348ccc(OCc349ccccc349)cc348OCc350ccc(OCc351ccccc351)cc350OCc352ccc(OCc353ccccc353)cc352OCc354ccc(OCc355ccccc355)cc354OCc356ccc(OCc357ccccc357)cc356OCc358ccc(OCc359ccccc359)cc358OCc360ccc(OCc361ccccc361)cc360OCc362ccc(OCc363ccccc363)cc362OCc364ccc(OCc365ccccc365)cc364OCc366ccc(OCc367ccccc367)cc366OCc368ccc(OCc369ccccc369)cc368OCc370ccc(OCc371ccccc371)cc370OCc372ccc(OCc373ccccc373)cc372OCc374ccc(OCc375ccccc375)cc374OCc376ccc(OCc377ccccc377)cc376OCc378ccc(OCc379ccccc379)cc378OCc380ccc(OCc381ccccc381)cc380OCc382ccc(OCc383ccccc383)cc382OCc384ccc(OCc385ccccc385)cc384OCc386ccc(OCc387ccccc387)cc386OCc388ccc(OCc389ccccc389)cc388OCc390ccc(OCc391ccccc391)cc390OCc39

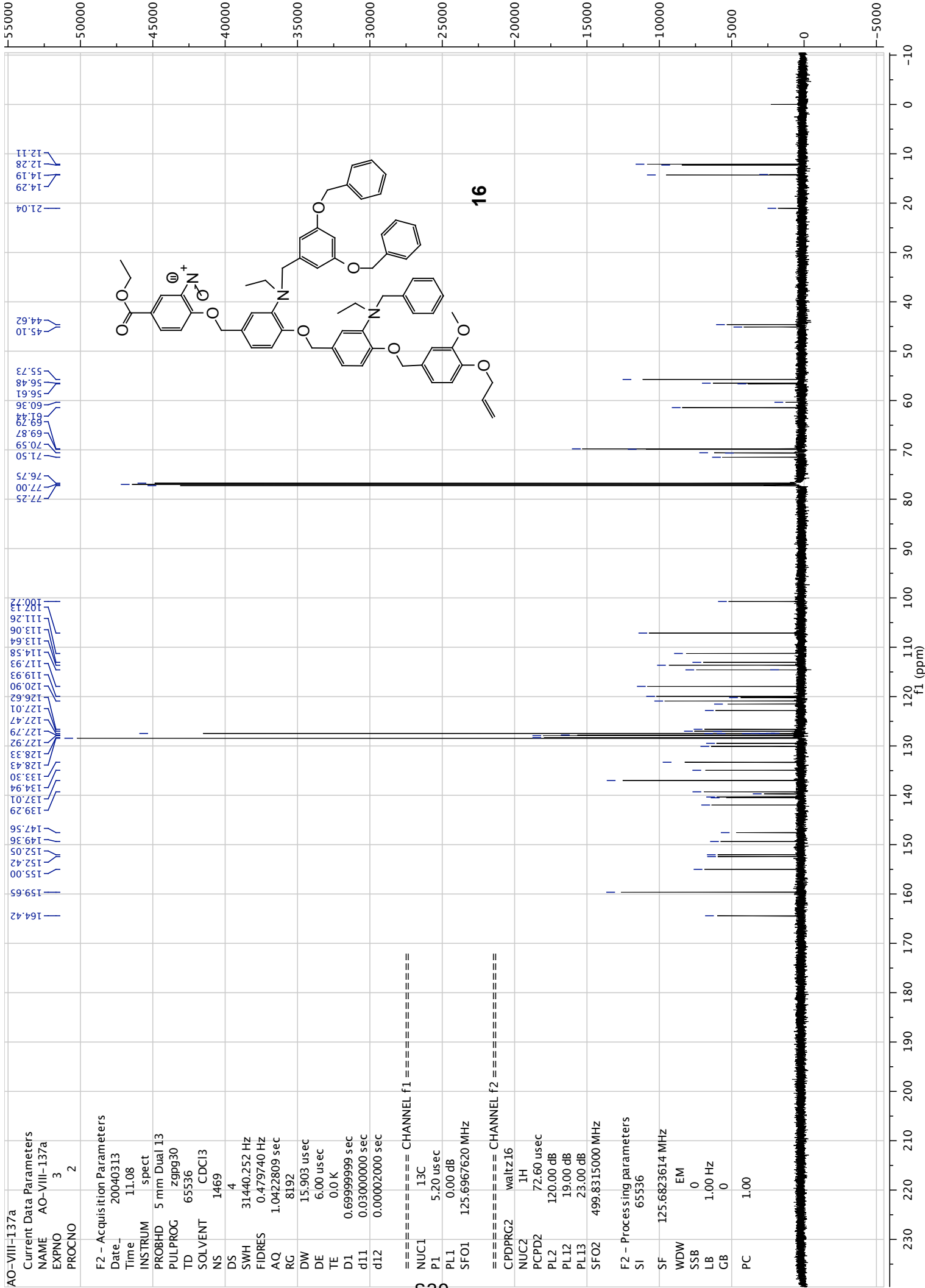


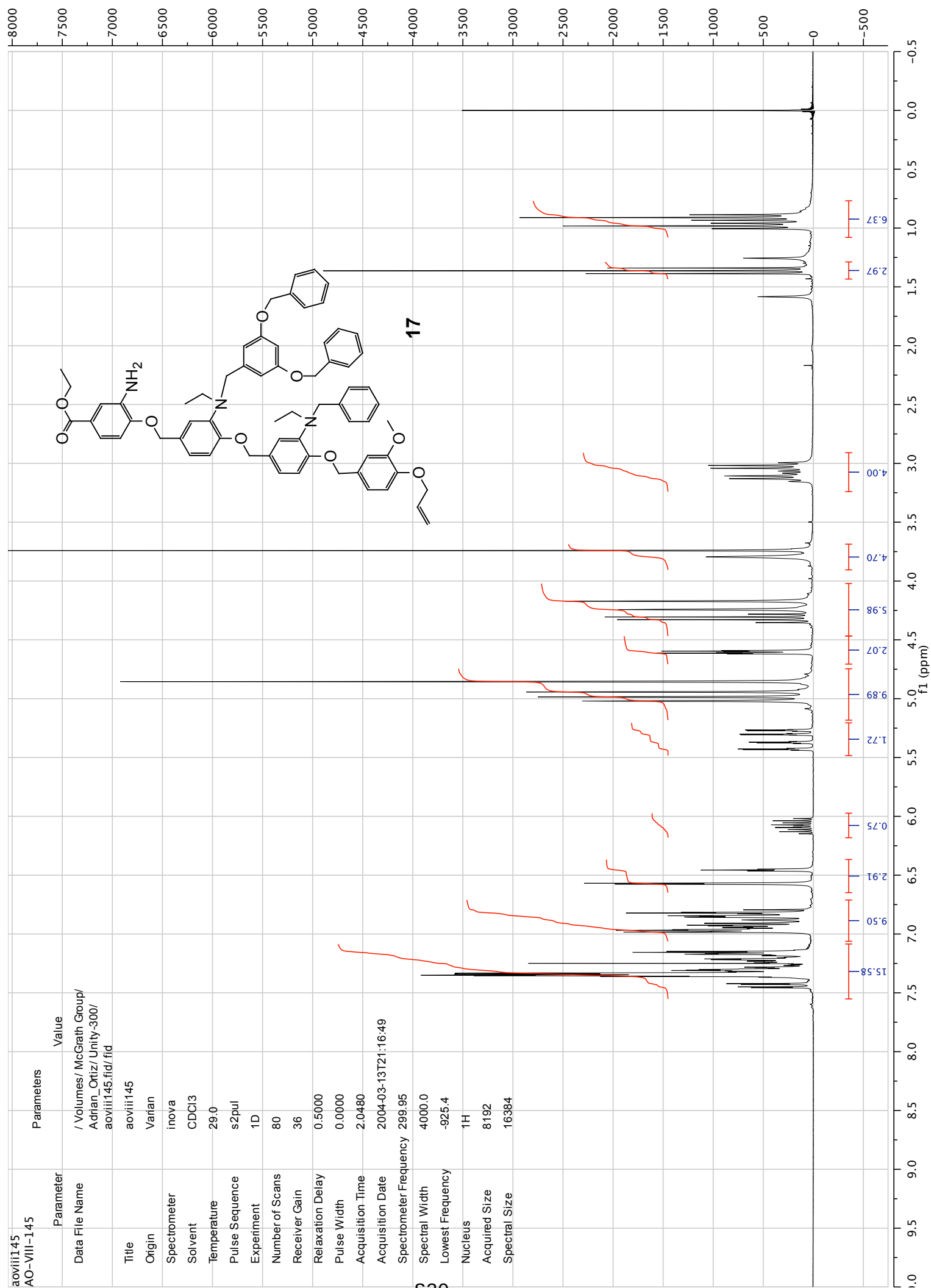












Title: PR-VI-114	
Date: 2010-06-25T15:01:00	

Spectrometer:

Probe:

Pulse Sequence:

TD:

Solvent:

NS: 0

DS:

SWH (Hz):

FIDRES (Hz): 0.00000000

Acquisition Time (sec): 3.9846387

Receiver Gain: 0

Received Gain: 0
 DW (sec): 0 00000000

DF (user):

Temperature (K): 0

D1 (sec): 0

DT (3)
TDO.

1 DO.
Nucleus:

Nucleus:
P1 (1150): 0

PI 1 (PB)

PLT (nb):
SEOT (MH-):

SPOT (MIL) 01-0550

SI: 65536
SF (MIL): 100 13000000

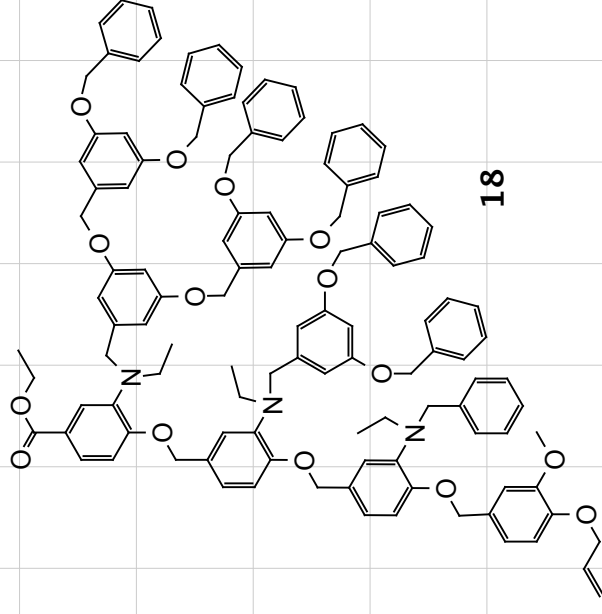
SF (MHz)

WLDW: 5
CCD: 4

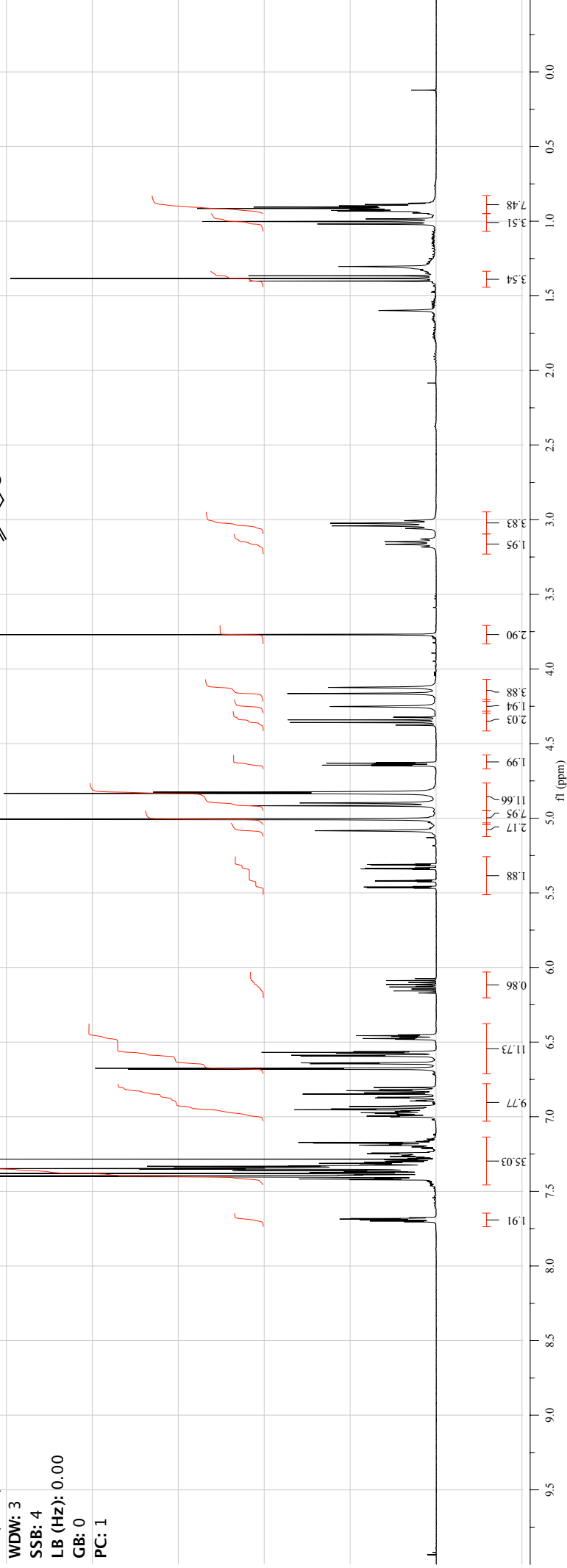
SSB: 4

LB (H₂O)

GB: 0



18



Title: PR-VI-114(18)

Date: 2010-06-26T18:46:00

Spectrometer: spect

Probe: 5 mm BBO BB-1H/D Z-GRD Z8007/0116

Pulse Sequence: zgpg30

TD: 65536

Solvent: CDCl3

NS: 301

DS: 4

SWH (Hz): 30030.030

FIDRES (Hz): 0.45822189

Acquisition Time (sec): 1.091241

Receiver Gain: 2896.3

DW (sec): 0.00001665

DE (usec): 6.00

Temperature (K): 298

D1 (sec): 0.7

D11 (sec): undefined

TD0: 1

Nucleus 1: 13C

P1 (usec): 5

PL1 (dB): 0.00

SFO1 (MHz): 125.60690500

CPDPRG: waltz16

Nucleus 2: 1H

PCPD2 (usec): 80.00

PL2 (dB): -2.00

PL12: 18.00

PL13 (dB): 18.00

SFO2 (MHz): undefined

SI: 32768

SF (MHz): 125.59434600

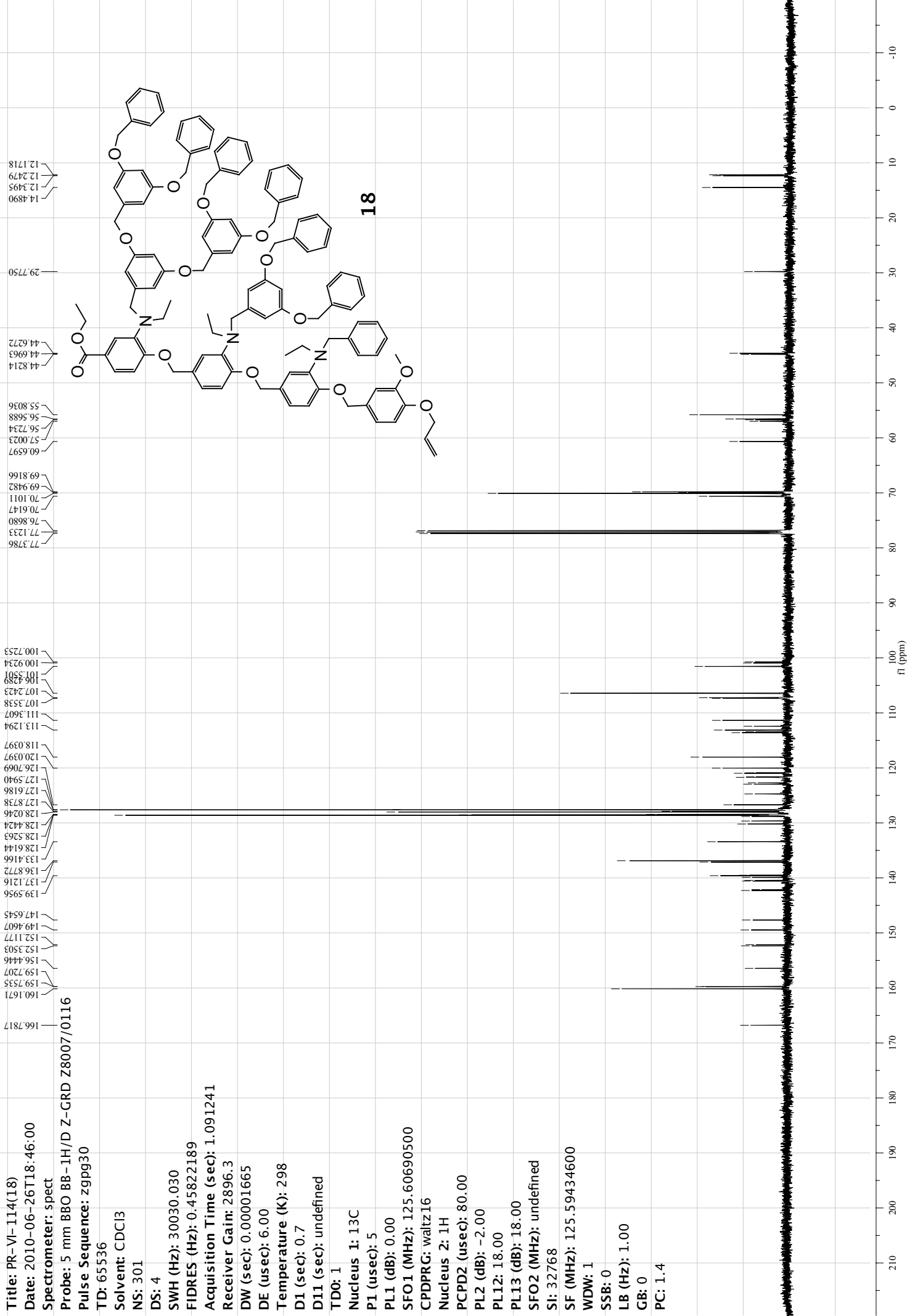
WDW: 1

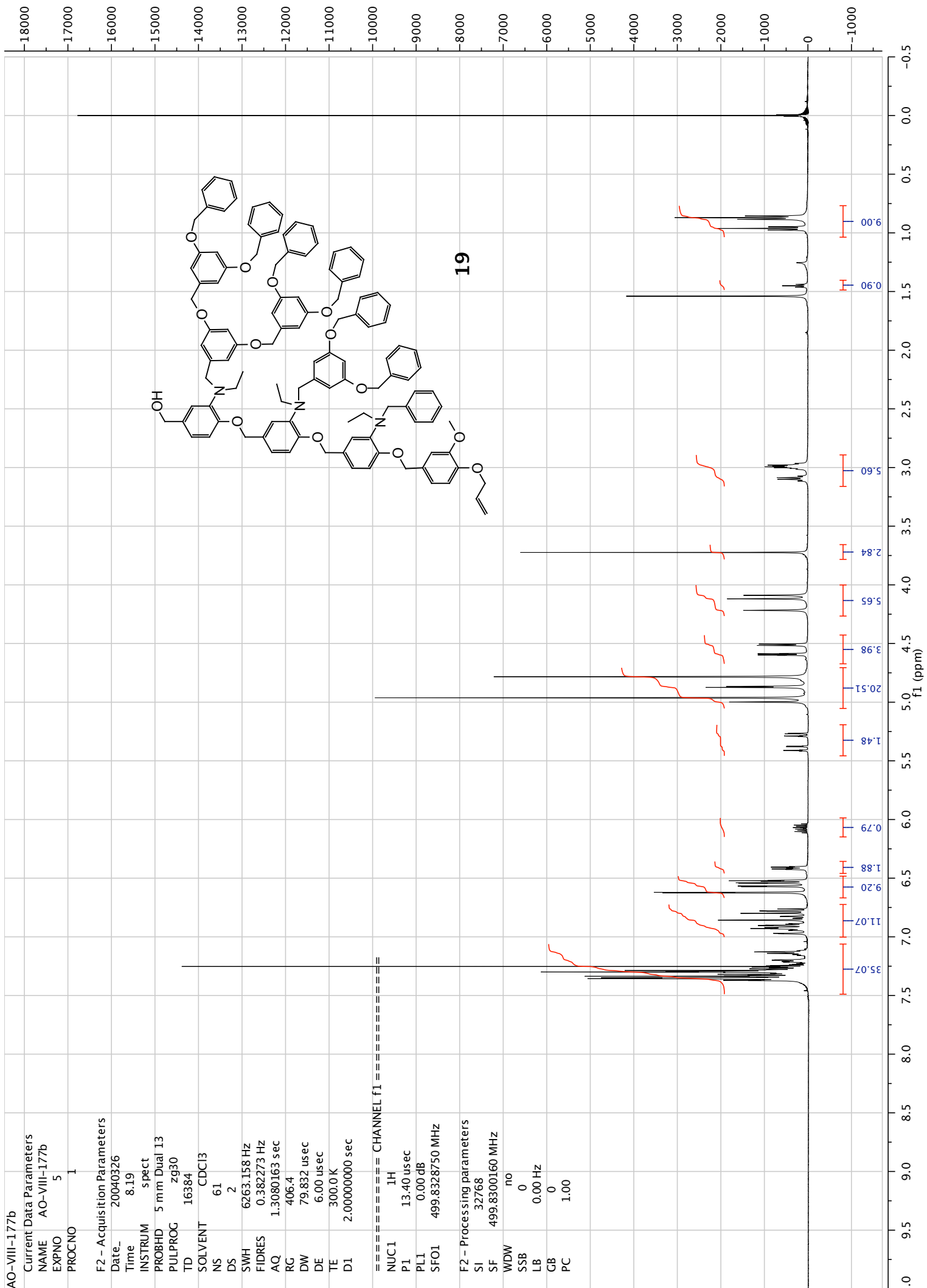
SSB: 0

LB (Hz): 1.00

GB: 0

PC: 1.4





Title: PR-VI-117(19)
Date: 2010-06-27T19:47:00

Spectrometer: spect

Probe: 5 mm PABBO BB-1H/D Z-GRD Z104450/0359

Pulse Sequence: zgpg30

TD: 65536

Solvent: CDCl3

NS: 4096

DS: 4

SWH (Hz): 24038.462

FIDRES (Hz): 0.36679781

Acquisition Time (sec): 1.3631988

Receiver Gain: 203

DW (sec): 0.00002080

DE (usec): 6.50

Temperature (K): 298

D1 (sec): 1.2

D11 (sec): undefined

TD0: 1

Nucleus 1: 13C

P1 (usec): 9.6

PL1 (dB): 3.00

SFO1 (MHz): 100.62282980

CPDPRG: waltz16

Nucleus 2: 1H

PCPD2 (usec): 90.00

PL2 (dB): 3.00

PL12: 18.74

PL13 (dB): 18.74

SFO2 (MHz): undefined

SI: 65536

SF (MHz): 100.61276900

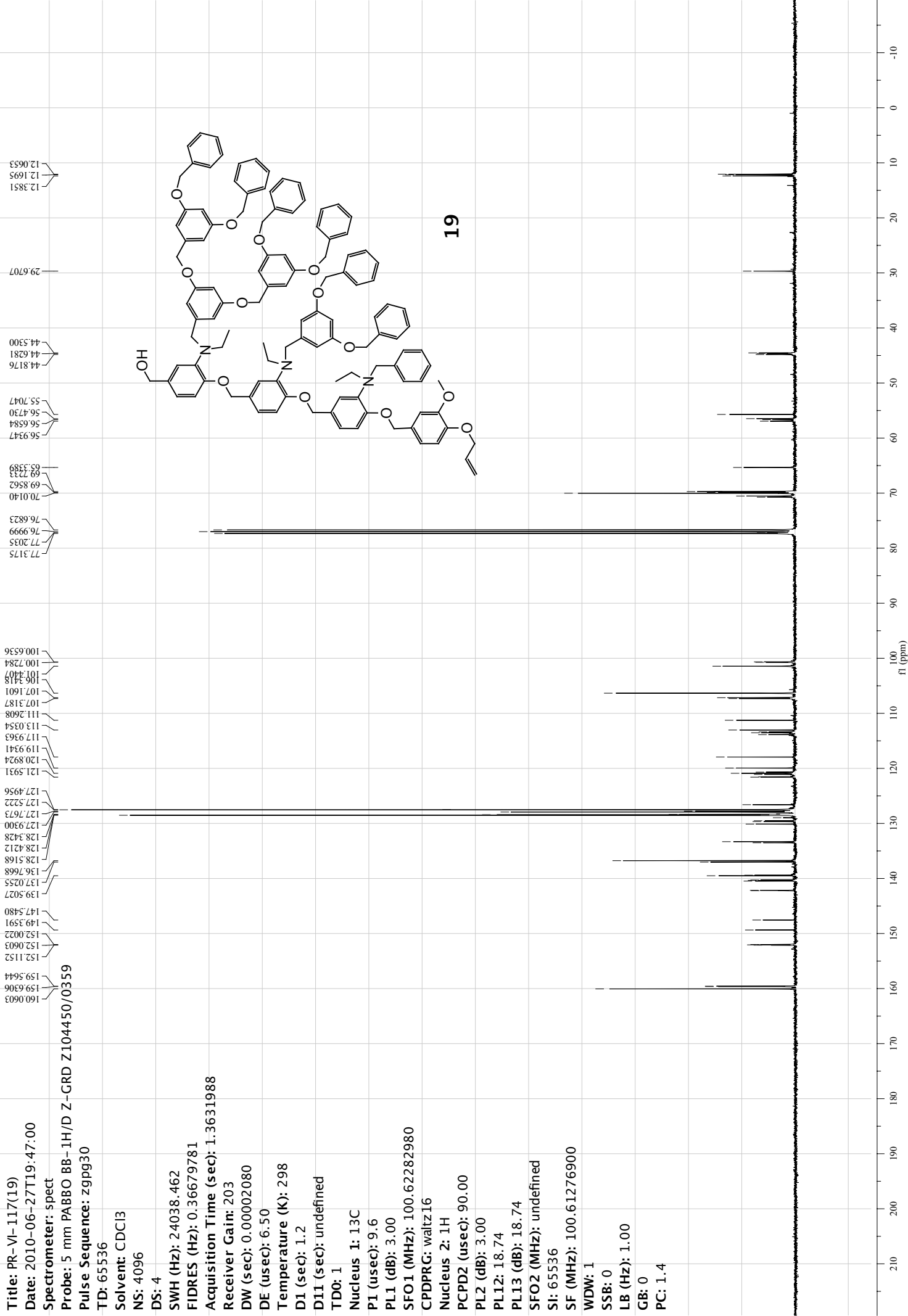
WDW: 1

SSB: 0

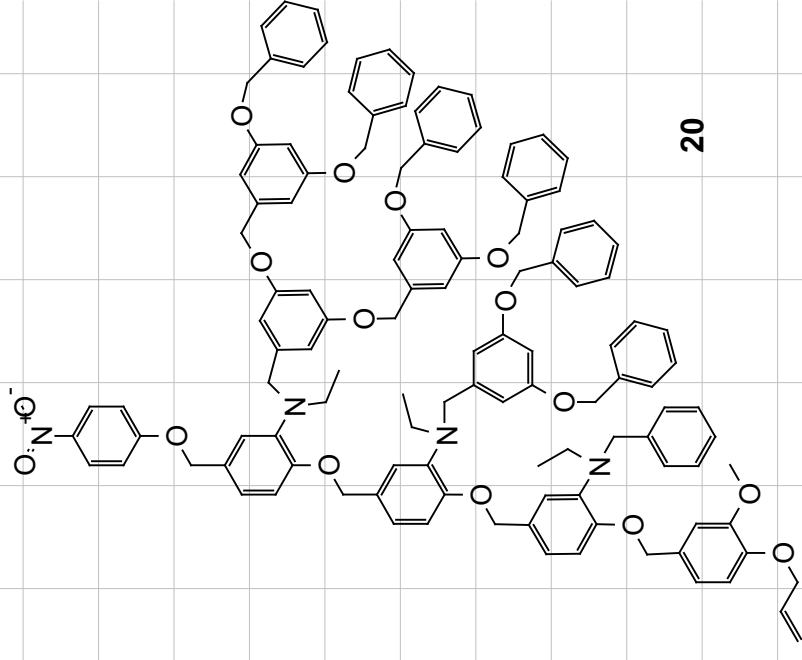
LB (Hz): 1.00

GB: 0

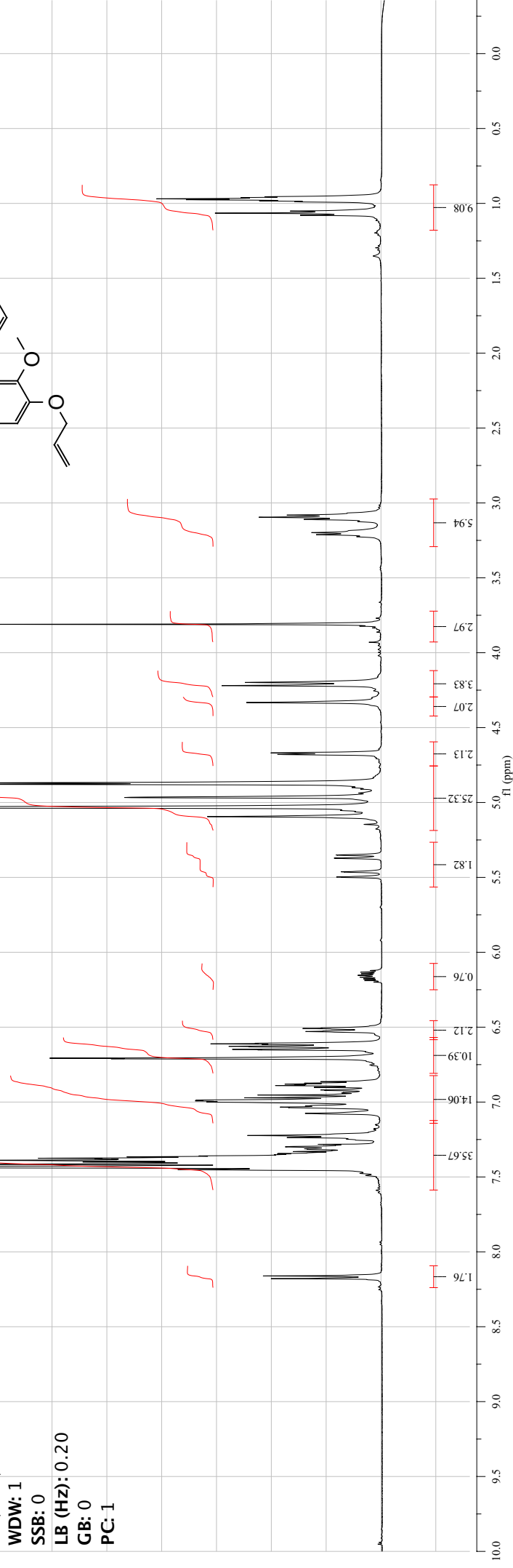
PC: 1.4



Title: AO-ix-105a (20)
Date: 2010-06-23T10:17:00
Spectrometer: spect
Probe: 5 mm BBO BB-1H/D Z-GRD Z8007/0116
Pulse Sequence: zg30
TD: 32768
Solvent: CDCl3
NS: 16
DS: 4
SWH (Hz): 6250.000
FIDRES (Hz): 0.19073486
Acquisition Time (sec): 2.6215701
Receiver Gain: 28.5
DW (sec): 0.00008000
DE (usec): 6.00
Temperature (K): 298
D1 (sec): 0
TD0: 1
Nucleus: 1H
P1 (usec): 12.5
PL1 (dB): -2.00
SFO1 (MHz): 499.48294693
SI: 32768
SF (MHz): 499.4800000
WDW: 1
SSB: 0
LB (Hz): 0.20
GB: 0
PC: 1



20



Title: AO-ix-105a (20)
Date: 2010-06-23T10:22:00
Spectrometer: spect
Probe: 5 mm BBO BB-1H/D Z-GRD Z8007/0116

