

Supporting Information NMR spectra

Insights into the soluble PEG-supported synthesis of cytosine containing nucleoside

5'-mono-, di-, and triphosphates

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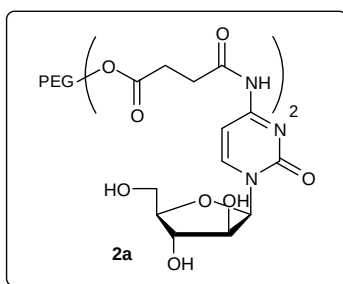
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Poly(ethylene glycol)₄₀₀₀ Bis[4-*N*-(1-(β-D-arabinofuranosyl)-cytosyl) succinate] 2^a

cc1110c1 d2o

Hz

1644.42
1636.89

1464.48
1456.99

1232.17
1227.54

941.35
921.57
881.28
877.59
873.25
841.57
812.25
808.72
798.16
764.51
755.07
744.21
724.22
704.45
652.29

554.43
543.62

226.02
218.86
211.80

Current Data Parameters

NAME	cc1110c1
EXPNO	1
PROCNO	1

F2 - Acquisition Parameters

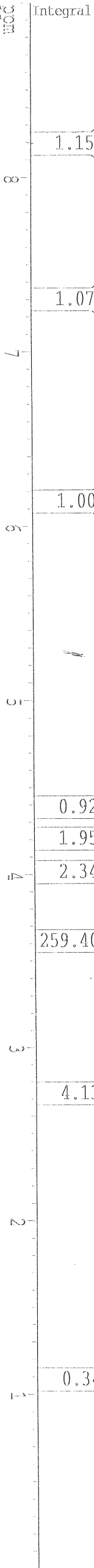
Date_	500000
Time	17.56
INSTRUM	spect
PROBHD	5 mm QNP 1H
PULPROG	zg
TD	32768
SOLVENT	D2O
NS	64
DS	0
SWH	3041.363 Hz
FIDRES	0.092815 Hz
AQ	5.3871093 sec
RG	128
DW	164.400 usec
DE	71.54 usec
TE	300.0 K
D1	3.0000000 sec
P1	9.50 usec
DE	71.54 usec
SFO1	200.1264000 MHz
NUC1	1H
PL1	-6.00 dB

F2 - Processing parameters

SI	16384
SF	200.1250000 MHz
WDW	EM
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	34.00 cm
F1P	9.000 ppm
F1	1801.12 Hz
F2P	0.000 ppm
F2	0.00 Hz
PPMCM	0.26473 ppm/cm
HZCM	52.97926 Hz/cm





Current Data Parameters
NAME Jan30-2006-sp
EXPNO 3
PROCNO 1

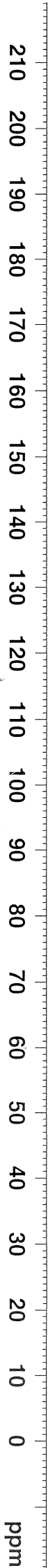
F2 - Acquisition Parameters
Date_ 20060130
Time 22.03
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 4096
DS 4
SWH 17985.611 Hz
FIDRES 0.274439 Hz
AQ 1.8219508 sec
RG 1024
DW 27.800 usec
DE 8.00 usec
TE 300.0 K
D1 1.00000000 sec
d11 0.03000000 sec
d12 0.0002000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 6.70 usec
PL1 -3.00 dB
SFO1 75.4752953 MHz

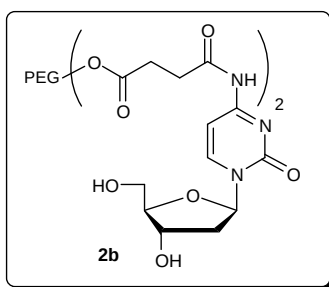
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 32768
SF 75.4677490 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

174.60
174.56
162.53
156.71
146.69
97.29
87.07
84.03
75.35
75.15
69.56
68.42
65.97
64.13
60.68
31.54
28.47
14.07



300
4000 scan -



Poly(ethylene glycol)₄₀₀₀ Bis[4-*N*-(1-(2'-deoxy-β-D-ribofuranosyl)-cytosyl) succinate] 2b

cc1101dccc1 c2o

Hz

1655.81
1648.02

1459.13
1451.62

1226.55

940.97

863.51

837.01

805.09

790.79

760.10

740.40

720.55

701.18

650.27

549.62

539.23

488.87

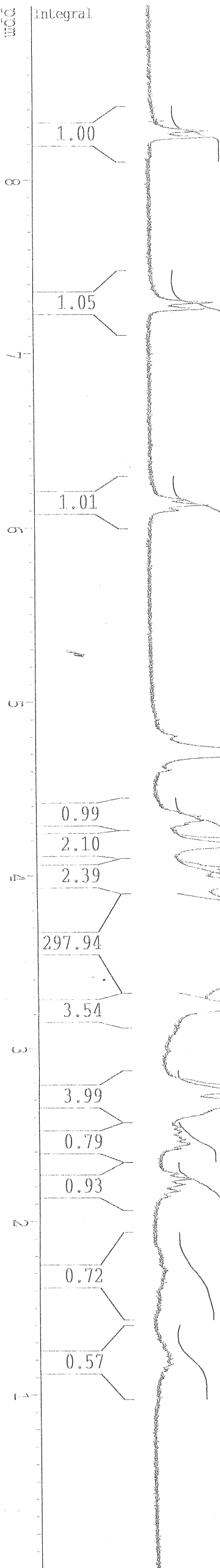
449.21

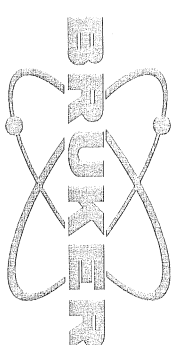
Current Data Parameters
NAME cc1101dccc1
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
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INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zg
TD 32768
SOLVENT D2O
NS 32
DS 0
SWH 3041.363 Hz
FIDRES 0.092815 Hz
AQ 5.3871093 sec
RG 128
DM 164.400 usec
DE 71.54 usec
TE 300.0 K
D1 3.0000000 sec
P1 9.50 usec
DE 71.54 usec
SF01 200.1264000 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 200.1260000 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 34.00 cm
F1P 9.000 ppm
F1 1801.12 Hz
F2P 0.000 ppm
F2 0.00 Hz
P2MCM 0.26473 ppm/cm
HZCM 52.97926 Hz/cm





Current Data Parameters
NAME Jun23-2006-sp
EXNO 33
PROCNO 1

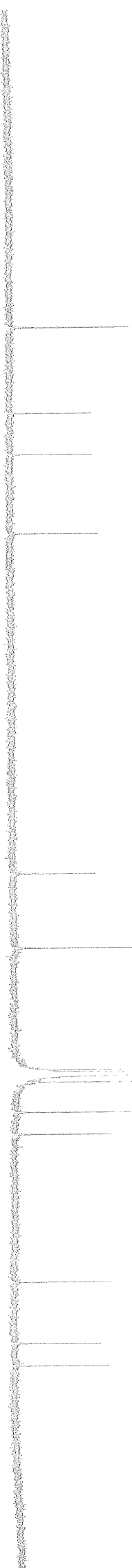
F2 - Acquisition Parameters
Date_ 20060623
Time_ 6.51
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 8.92
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664735 sec
RG 90.5
DW 20.850 usec
DE 6.00 usec
TE 294.6 K
D1 1.0000000 sec
d11 0.0300000 sec
DELTA 0.8999998 sec
MCREST 0.0000000 sec
MCMRK 0.0150000 sec

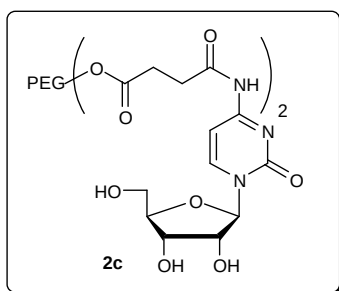
===== CHANNEL #1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SFO1 100.6228298 MHz

===== CHANNEL #2 =====
C2DPG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 17.00 dB
PL13 120.00 dB
SFO2 400.1316003 MHz

F2 - Processing Parameters
SI 32768
SF 100.6227660 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

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

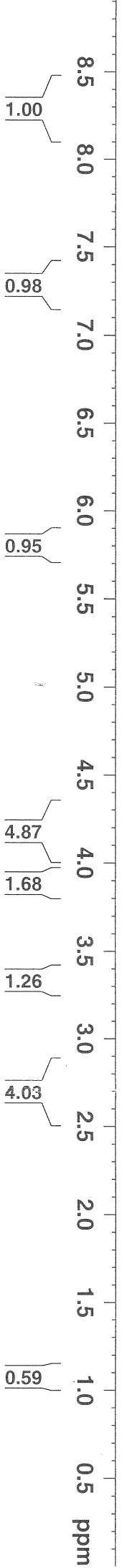
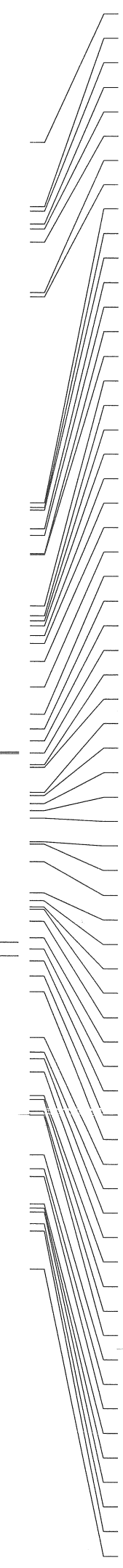




Poly(ethylene glycol)₄₀₀₀ Bis[4-N-(1-(β-D-ribofuranosyl)-cytosyl) succinate] 2c

cc197CC1 d20
ProtonPPA3 D2O sp 1

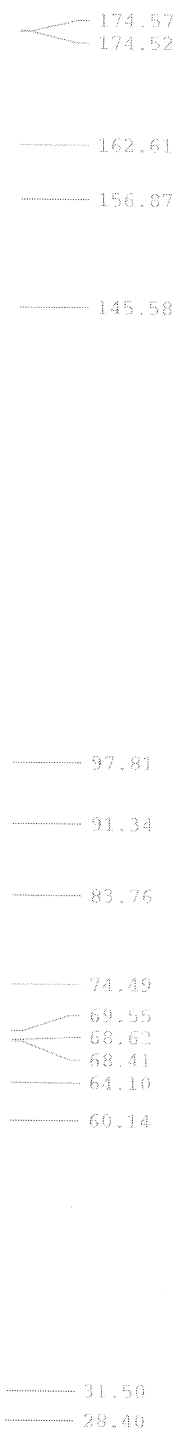
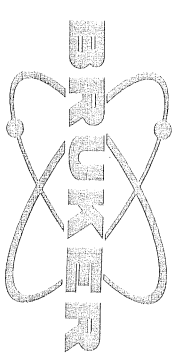
2438.05
2328.79
2321.33
2299.36
2291.10
2269.03
2185.12
2177.64
1830.79
1823.05
1818.81
1787.30
1776.25
1745.58
1743.51
1657.54
1641.44
1632.71
1624.07
1608.33
1595.21
1565.01
1521.97
1475.54
1450.71
1431.00
1410.84
1390.86
1386.46
1344.57
1339.54
1325.84
1314.39
1301.19
1261.31
1257.39
1227.79
1175.92
1163.19
1152.48
1148.73
1128.33
1101.19
1081.81
1062.06
1036.49
1009.56
931.91
907.44
896.15
874.46
834.44
827.76
807.96
801.36
735.02
711.47
698.13
651.74
644.57
638.36
618.84
605.99
542.73



Current Data Parameters
NAME Apr07-2006-sp
EXPNO 9
PROCNO 1

F2 - Acquisition Parameters
Date_ 20060407
Time 14.16
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT D2O
NS 128
DS 2
SWH 4844.961 Hz
FIDRES 0.147856 Hz
AQ 3.3817077 sec
RG 128
DW 103.200 usec
DE 8.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 6.50 usec
PL1 -3.00 dB
SFO1 300.1322660 MHz
F2 - Processing parameters
SI 32768
SF 300.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



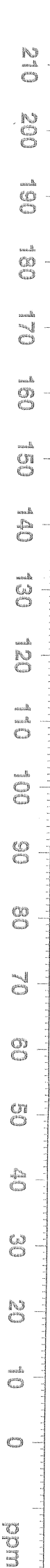
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NAME Jun23-2006-49
EXNO 43
PROCNO 1

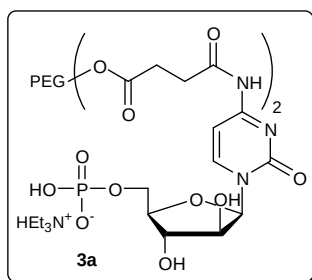
F2 - Acquisition Parameters
Date_ 20060623
Time 22.134
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 8192
DS 4
SWH 23980.814 Hz
FIDRES 0.36918 Hz
AQ 1.3664756 sec
RG 90.5
DM 20.950
DE 6.00 usec
TE 294.5 K
D1 1.00000000 sec
C11 0.03000000 sec
DELTA 0.89999998 sec
MCREST 0.00000000 sec
MCMRST 0.01500000 sec

===== CHANNEL F1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SFO1 100.6228298 MHz

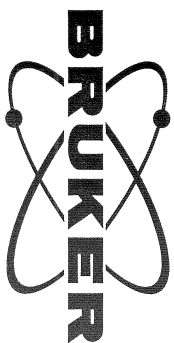
===== CHANNEL F2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
P12 -6.00 dB
PL12 -7.00 dB
PL13 120.00 dB
SFO2 400.1316003 MHz

F2 - Processing parameters
SI 32768
SF 100.6227590 MHz
MDM ZX
SSS 0
IS 1.00 Hz
GB 0
PC 1.40





Poly(ethylene glycol)₄₀₀₀ Bis[4-*N*-(1-(5'-*O*-monophosphoryl-β-*D*-arabinofuranosyl)-cytosyl) succinate], triethylammonium salt 3a



NAME	Oct06-2006
EXPNO	1
PROCNO	1

2415.62	2406.65	2400.72	2393.20	2387.99	2178.50	2170.34	2159.09	2128.85	2121.28	2074.34	2067.41	1894.14	1857.55	1852.73	1836.87	1614.53	1543.74	1525.51	1504.05	1495.93	1490.13	1487.29	1459.88	1411.24	1388.80	1367.27	1353.68	1333.51	1329.14	1324.95	1313.83	1303.52	1258.18	1232.70	1228.17	1152.26	1081.63	1059.37	1043.50	1036.71	1010.07	964.24	941.83	934.53	927.25	920.10	895.79	845.97	839.47	813.54	807.92	783.30	758.81	751.36	743.43	637.82	604.48	596.97	574.33	570.95	560.02	543.34	533.34	516.95
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F2 - Acquisition Parameters

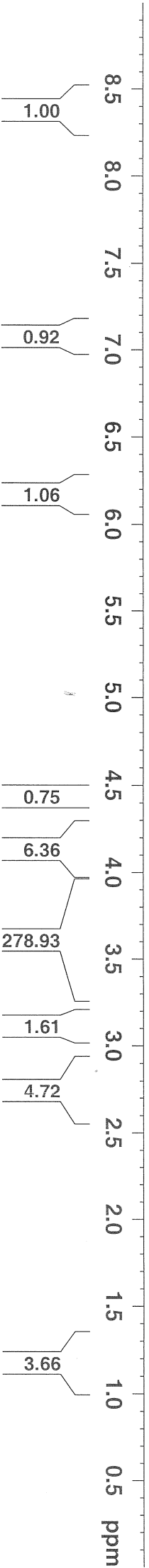
Date_	20061006
Time	10.15
INSTRUM	spect
PROBHD	5 mm QNP 1H/13
PULPROG	zg30
TD	32768
SOLVENT	D2O
NS	128
DS	2
SWH	4844.961 Hz
FIDRES	0.147856 Hz
AQ	3.3817077 sec
RG	143.7
DW	103.200 usec
DE	8.00 usec
TE	300.0 K
D1	1.00000000 sec

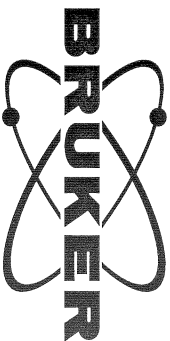
===== CHANNEL f1 =====

NUC1	1H
P1	6.50 usec
PL1	-3.00 dB
SFO1	300.1322660 MHz

F2 - Processing parameters

SI	32768
SF	300.1300000 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00





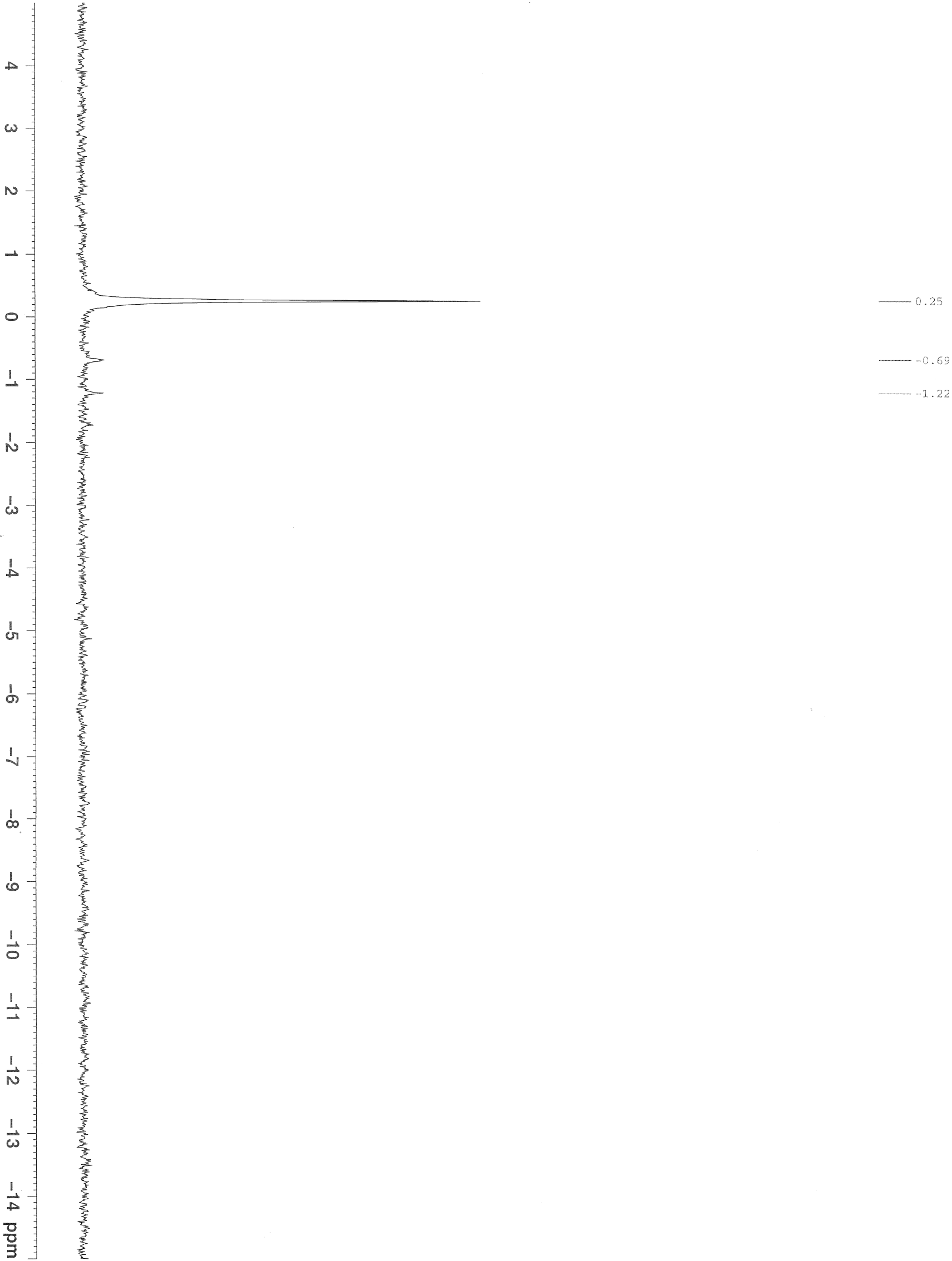
Current Data Parameters
NAME Oct06-2006
EXPNO 2
PROCNO 1

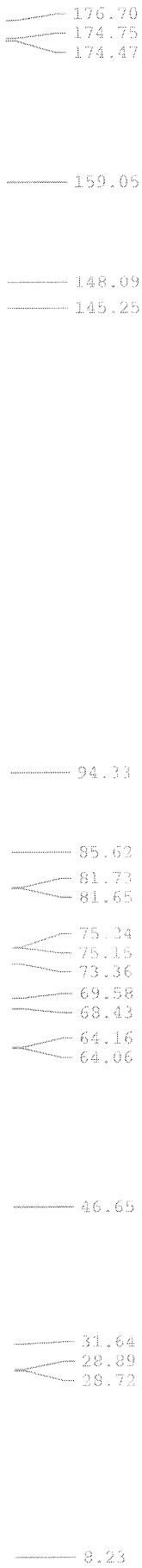
F2 - Acquisition Parameters
Date_ 20061006
Time 10.23
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 128
DS 4
SWH 46296.297 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 20642.5
DW 10.800 usec
DE 8.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.0002000 sec

===== CHANNEL f1 =====
NUC1 31P
P1 6.75 usec
PL1 6.00 dB
SFO1 121.4960509 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 65536
SF 121.4948360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





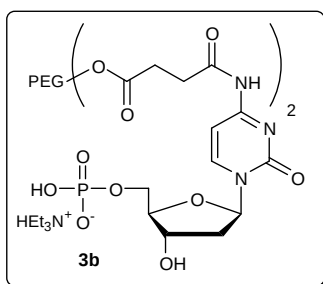
Current Data Parameters
NAME May16-2007-sp
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070518
Time 10.10
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 61440
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 181
DW 20.850 usec
DE 6.00 usec
TE 297.9 K
D1 1.00000000 sec
d11 0.03000000 sec
DELTA 0.89999998 sec
MCREST 0.00000000 sec
MCMRK 0.01500000 sec

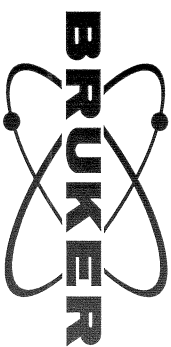
===== CHANNEL f1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SFO1 100.6282298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 17.00 dB
PL13 120.00 dB
SFO2 400.1316005 MHz

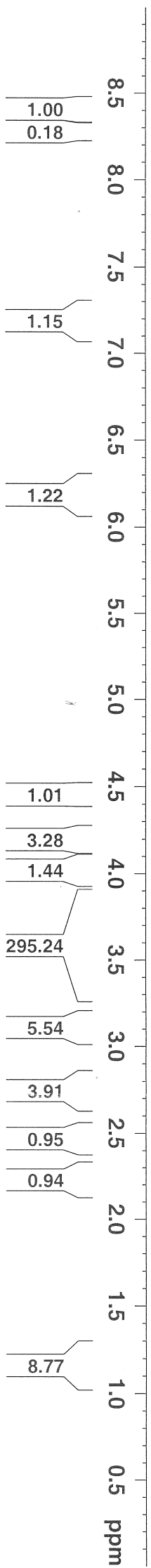
F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Poly(ethylene glycol)₄₀₀₀ Bis[4-*N*-(1-(2'-deoxy-5'-*O*-monophosphoryl-β-*D*-ribofuranosyl)-cytosyl) succinate], triethylammonium salt **3b**



	2520.26
	2512.75
	2490.24
	2482.86
	2173.14
	2165.99
	2153.42
	2145.90
	1859.81
	1853.70
	1847.57
	1841.62
	1431.69
	1411.33
	1391.83
	1335.18
	1313.27
	1297.26
	1256.53
	1222.79
	1211.44
	1202.21
	1197.78
	1186.35
	1152.15
	1149.32
	1102.15
	1082.19
	1063.36
	1010.12
	942.33
	935.12
	927.86
	920.63
	896.57
	839.62
	833.40
	810.76
	804.87
	783.79
	758.26
	752.64
	744.79
	739.10
	734.54
	687.78
	681.58
	674.71
	667.53
	661.07
	361.56
	354.29
	347.05

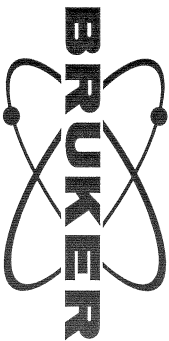


Current Data Parameters
NAME Mar21-2007
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070321
Time 11.14
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT D2O
NS 64
DS 2
SWH 4844.961 Hz
FIDRES 0.147856 Hz
AQ 3.3817077 sec
RG 128
DW 103.200 usec
DE 8.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 6.50 usec
PL1 -3.00 dB
SFO1 300.1322660 MHz

F2 - Processing parameters
SI 32768
SF 300.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



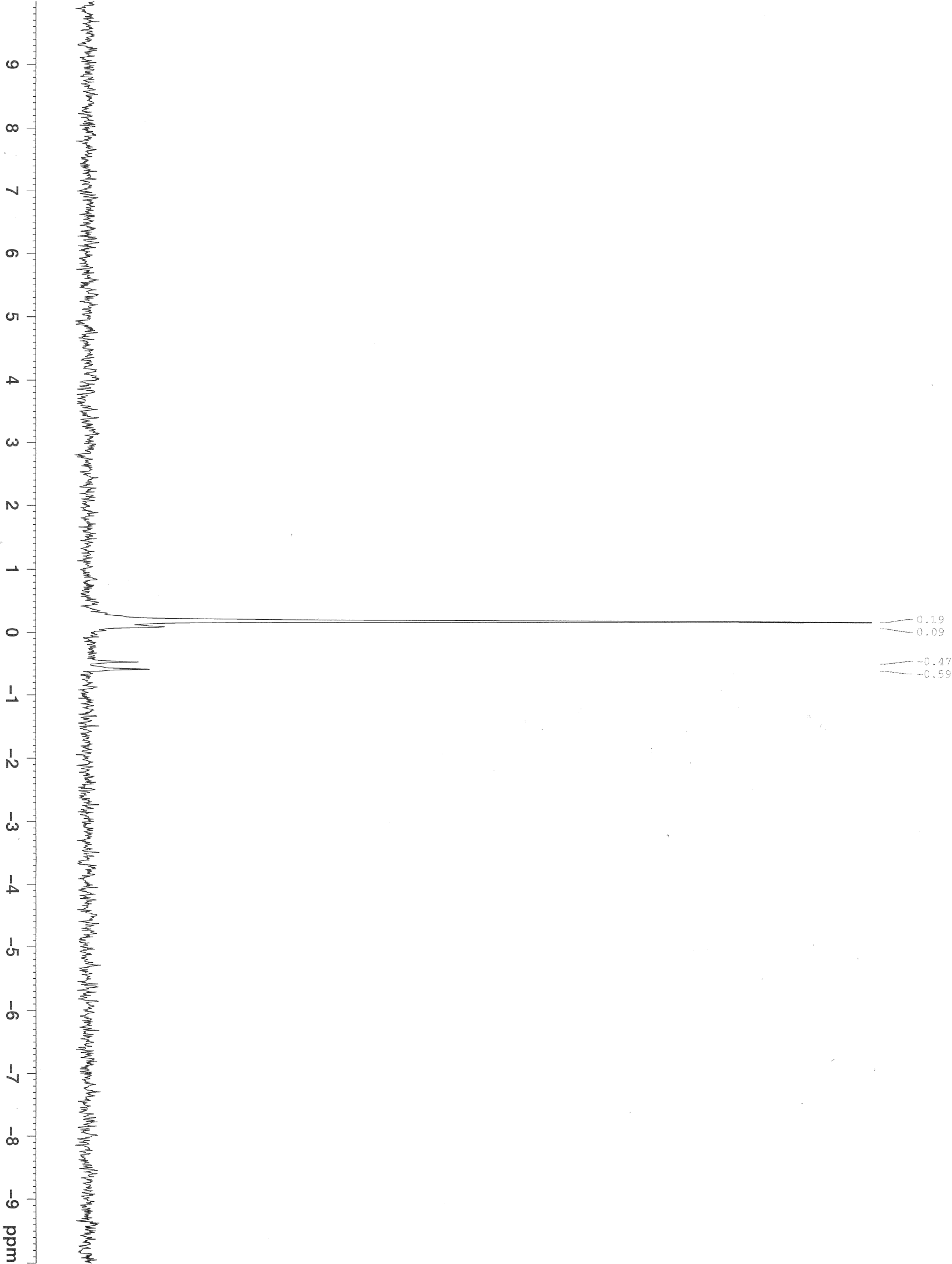
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NAME Mar21-2007
EXPNO 5
PROCNO 1

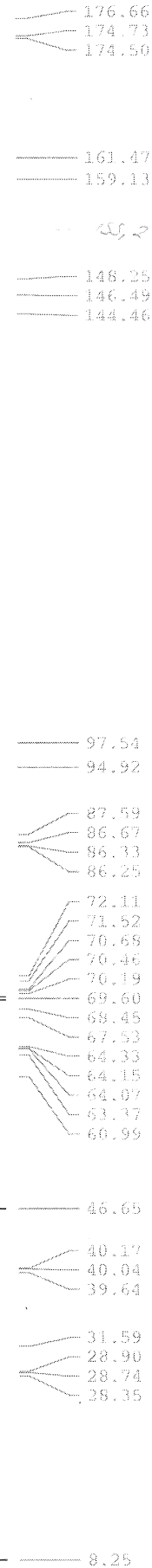
F2 - Acquisition Parameters
Date_ 20070321
Time 11.23
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 95
DS 4
SWH 46296.297 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 7298.2
DW 10.800 usec
DE 8.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.0002000 sec

===== CHANNEL f1 =====
NUC1 31P
P1 6.75 usec
PL1 6.00 dB
SFO1 121.4960509 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 65536
SF 121.4948360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





CCII1277/D2O

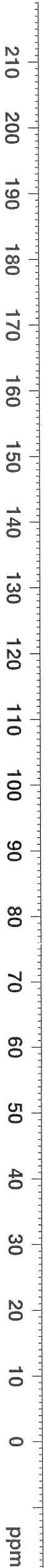
Current Data Parameters
NAME May22-2007-sp
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070522
Time 17.55
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 25026
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 143.7
DW 20.850 usec
DE 6.00 usec
TE 298.0 K
D1 1.00000000 sec
d11 0.03000000 sec
DELTA 0.89999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 17.00 dB
PL13 120.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

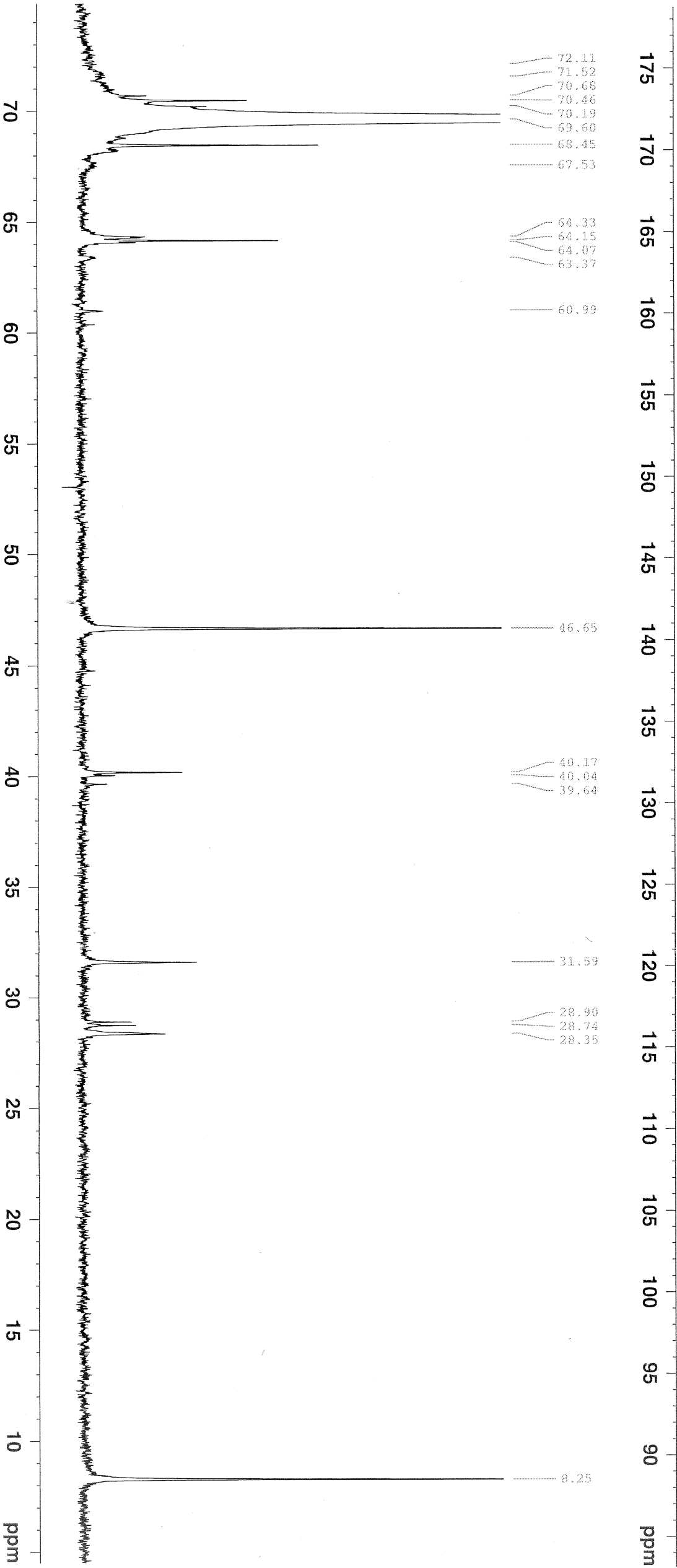
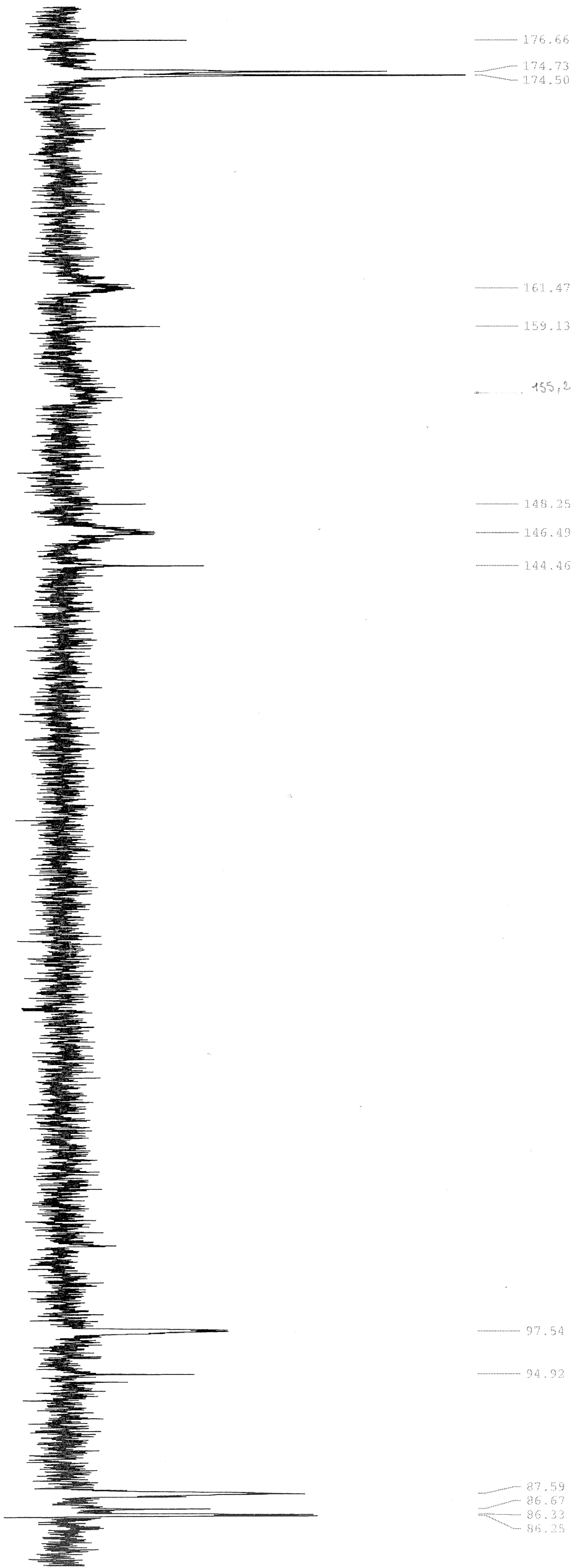


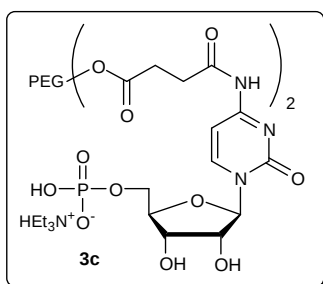
CCII1277/D2O

Current Data Parameters
NAME May22-2007-sp
EXPNO 10
PROCNO 1

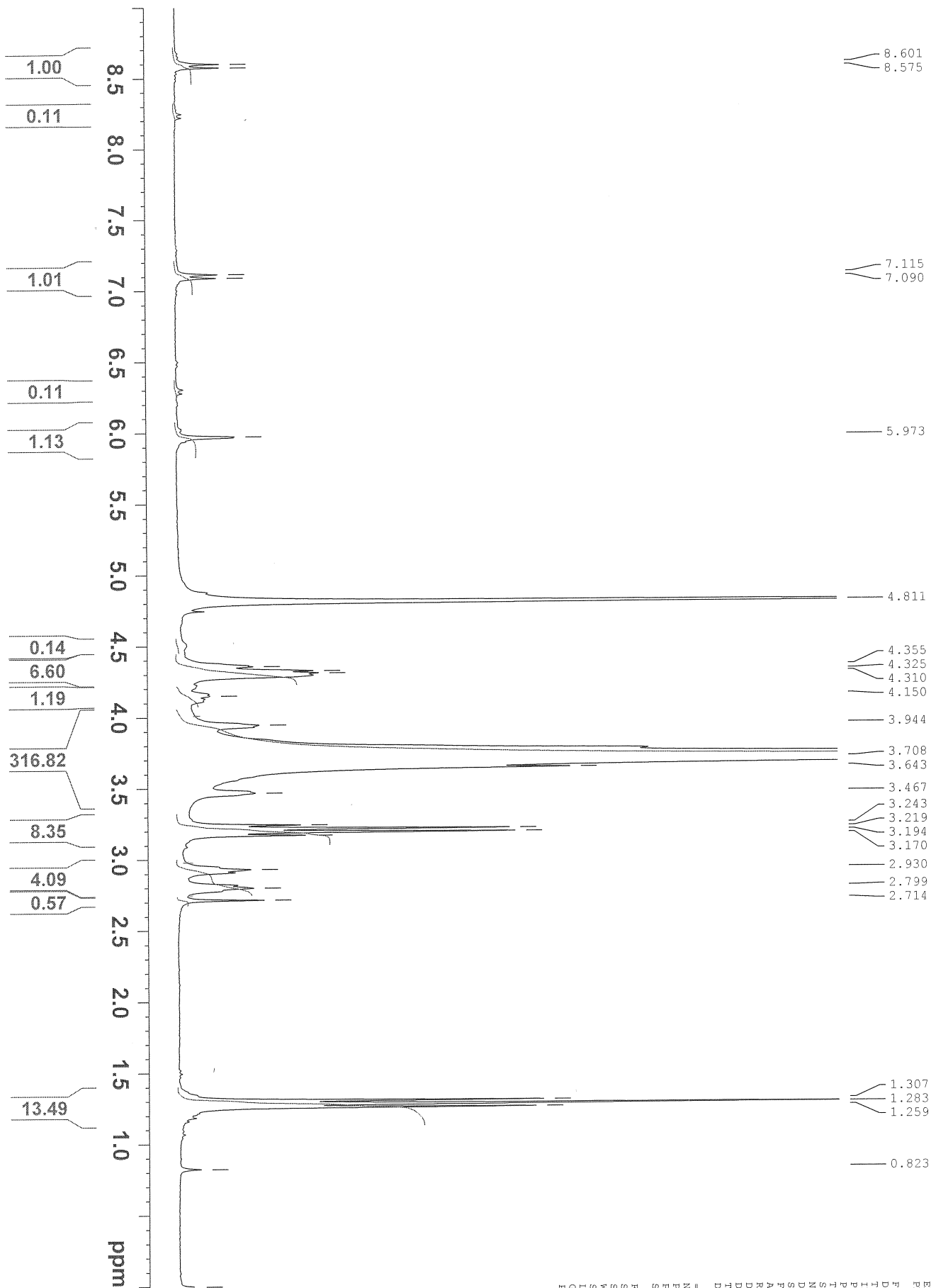
F2 - Acquisition Parameters
Date_ 20070522
Time 17.55
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 25026
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 143.7
DW 20.850 usec
DE 6.00 usec
TE 298.0 K
D1 1.00000000 sec
d11 0.03000000 sec
DELTA 0.8999998 sec
MCREST 0.00000000 sec
MCWRR 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SF01 100.6228298 MHz
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 17.00 dB
PL13 120.00 dB
SF02 400.1316005 MHz
F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





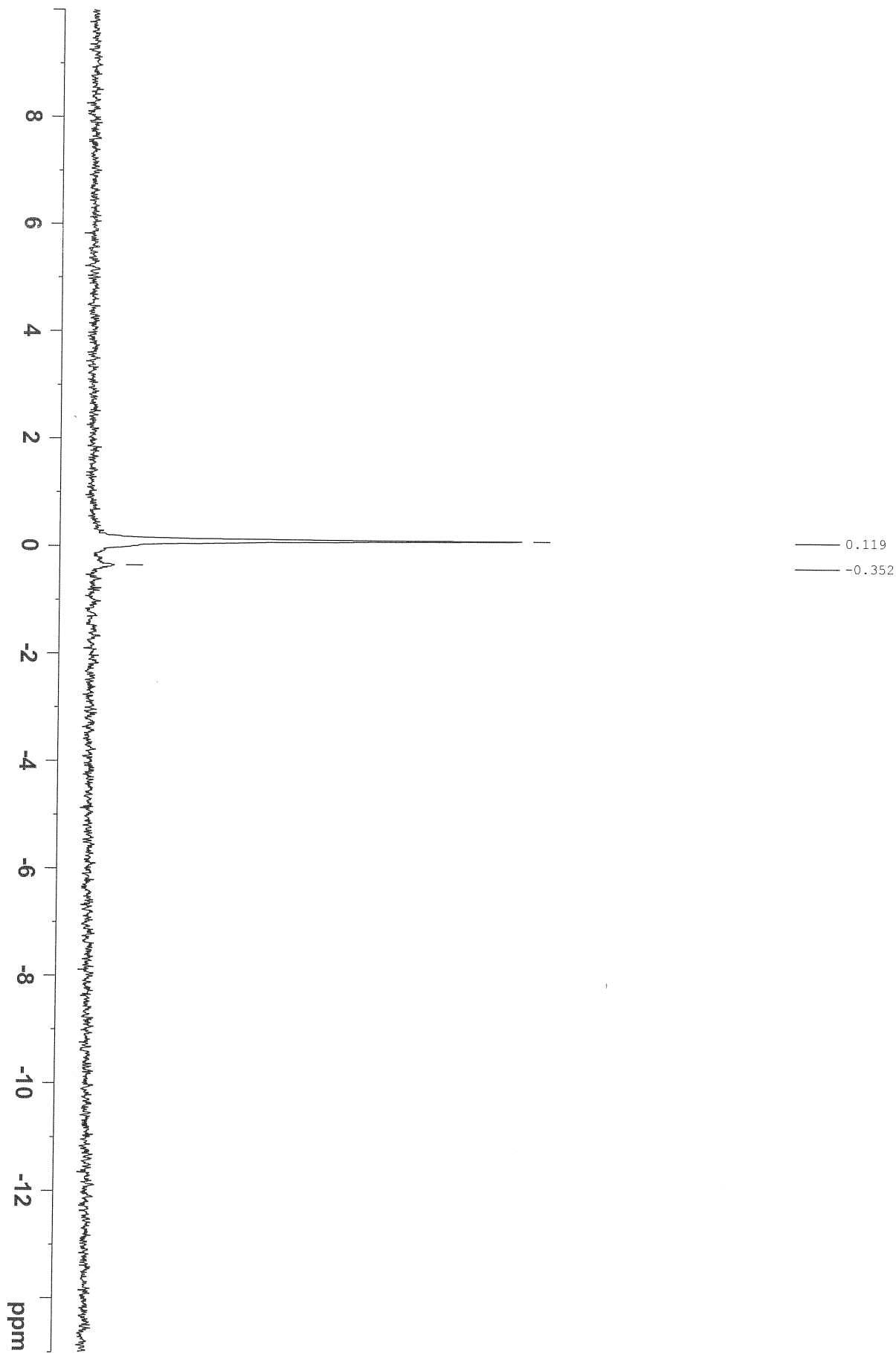
Poly(ethylene glycol)₄₀₀₀ Bis[4-N-(1-(5'-O-monophosphoryl-β-D-ribofuranosyl)-cytosyl)succinate], triethylammonium salt 3c



Current Data Parameters
 NAME 36-cp-04192007
 EXPNO 10
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20070419
 Time_ 21.33
 INSTRUM spect
 PROBD 5 mm QNP 1H/13
 PULPROG zg30
 TD 32768
 SOLVENT D2O
 NS 64
 DS 2
 SWH 4844.961 Hz
 FIDRES 0.147856 Hz
 AQ 3.3817077 sec
 RG 163.3
 DM 103.200 usec
 DE 14.00 usec
 TE 300.0 K
 D1 1.00000000 sec

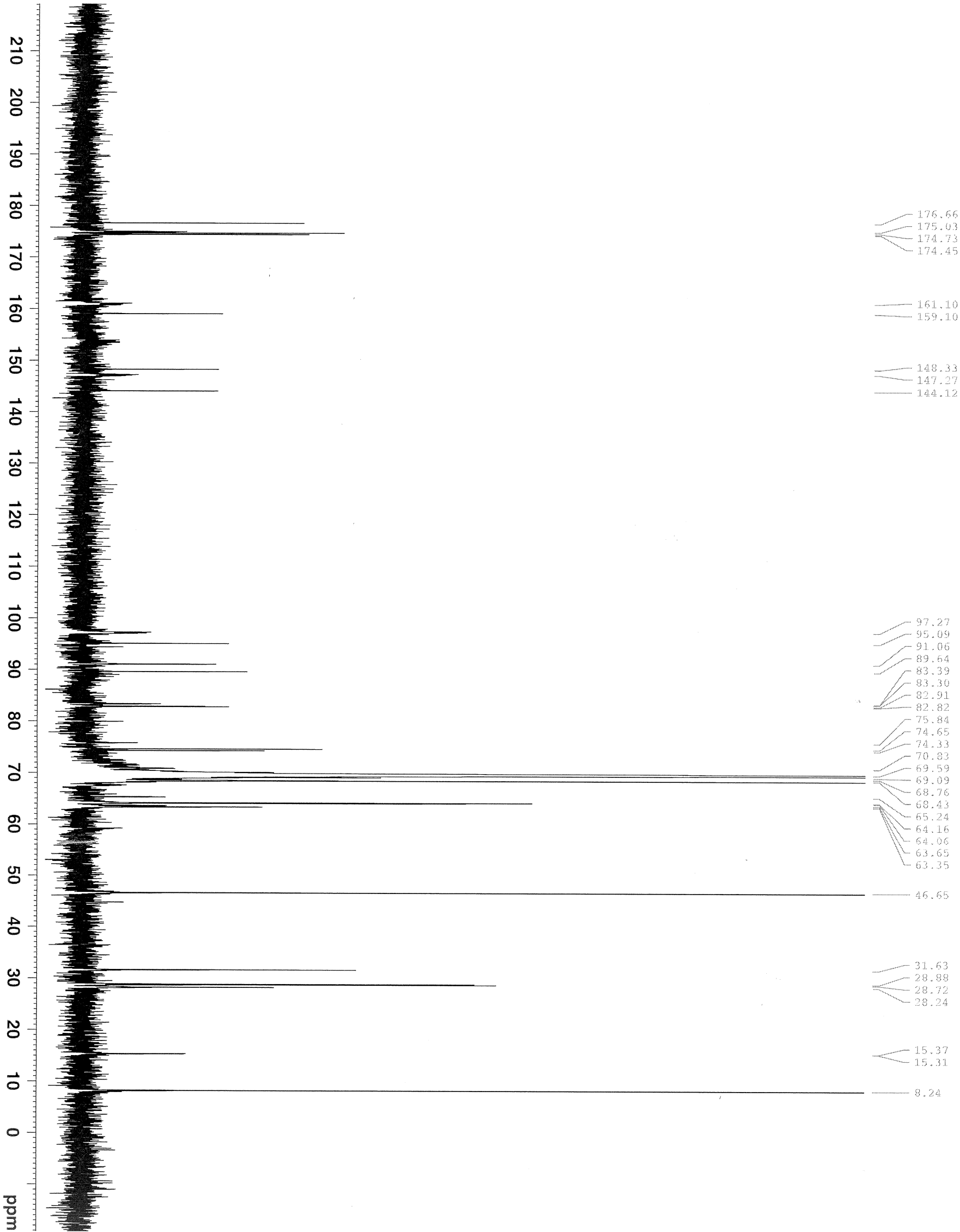
===== CHANNEL f1 =====
 NUC1 1H
 P1 6.50 usec
 PL1 -3.00 dB
 SFO1 300.1322660 MHz

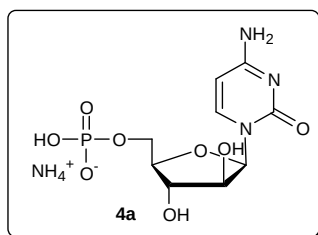
F2 - Processing parameters
 SI 32768
 SF 300.1239676 MHz
 SW 4844.961 Hz
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00





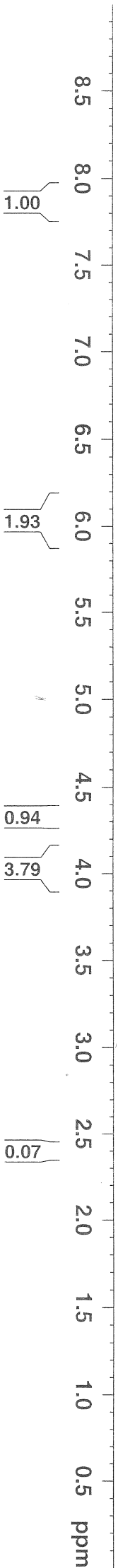
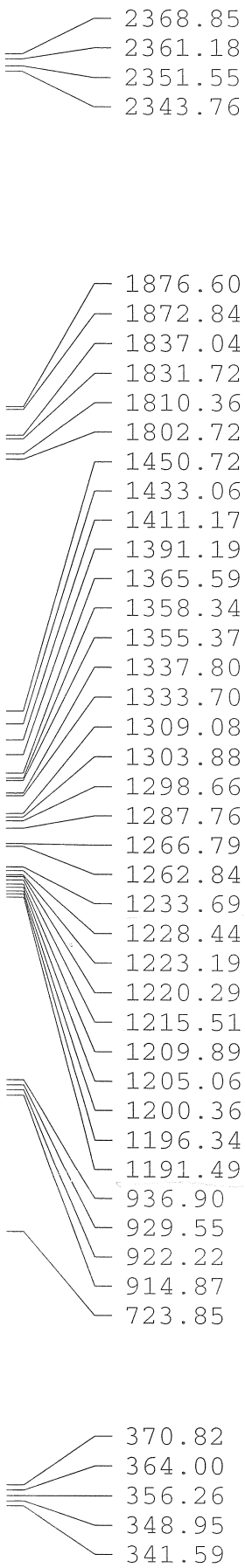
Current Data Parameters
NAME Jun13-2007
EXPNO 10
PROCNO 1
F2 - Acquisition Parameters
Date_ 20070614
Time 9.53
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 362
DW 20.850 usec
DE 6.00 usec
TE 297.9 K
D1 1.00000000 sec
d11 0.03000000 sec
DELTA 0.89999998 sec
MCREST 0.00000000 sec
MCMRK 0.01500000 sec
===== CHANNEL f1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SFO1 100.6228298 MHz
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 17.00 dB
PL13 120.00 dB
SFO2 400.1316005 MHz
F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





1-(β-D-arabinofuranosyl)-cytosine-5'-monophosphate, ammonium salt 4a

ccii182c1f1b1
ProtonMPA3 D2O eb eb 1



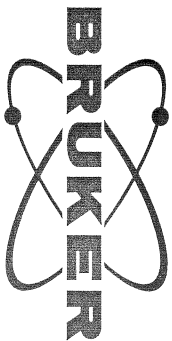
Current Data Parameters
NAME Dec15-2006
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20061215
Time 11.21
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT D2O
NS 18
DS 2
SWH 4844.961 Hz
FIDRES 0.147856 Hz
AQ 3.3817077 sec
RG 456.1
DM 103.200 usec
DE 8.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 6.50 usec
PL1 -3.00 dB
SFO1 300.1322660 MHz

F2 - Processing parameters
SI 32768
SF 300.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

cc1i182c1f1B1
P31cpda3 D2O eb eb 1



0.45
-0.30
-0.82

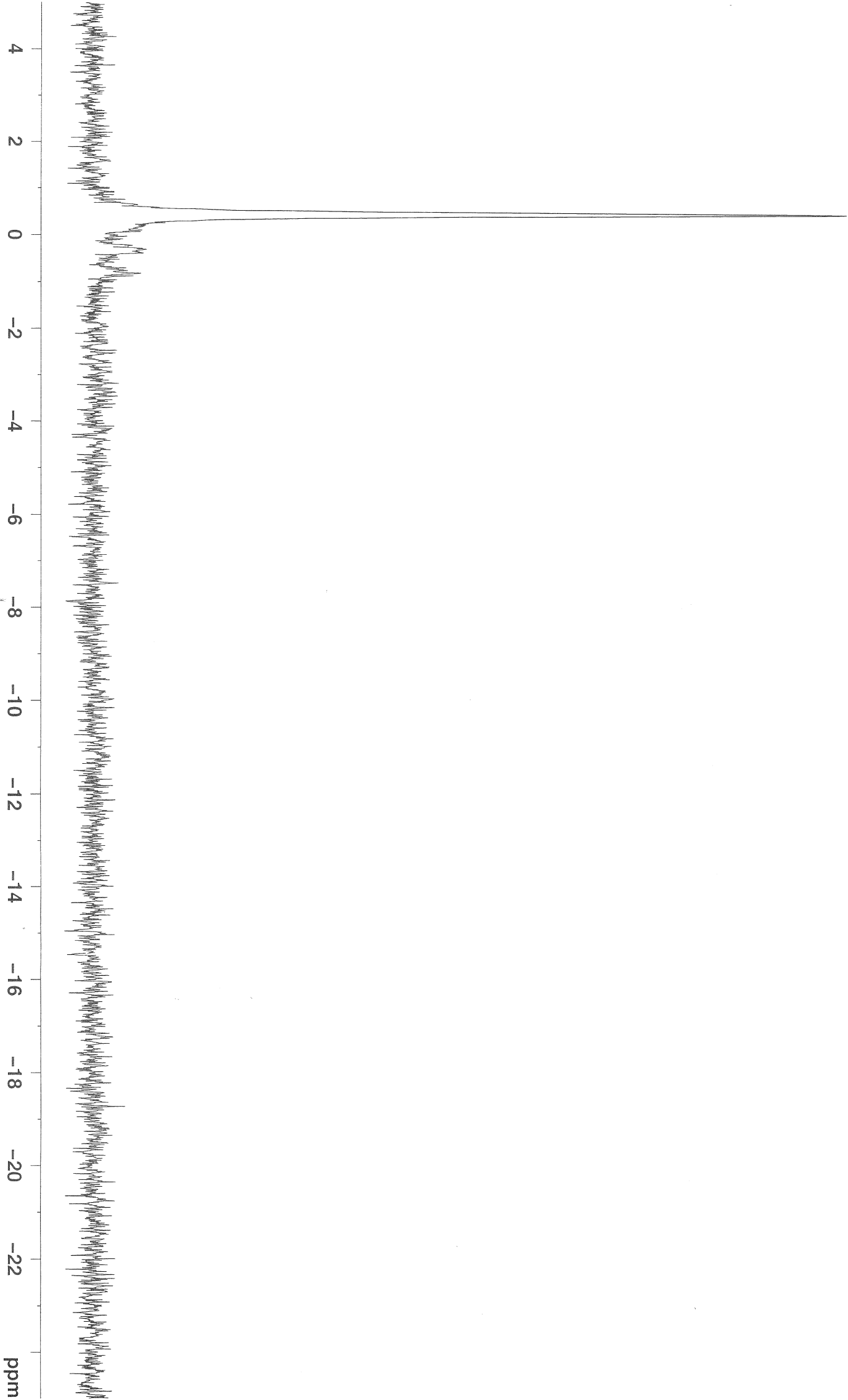
Current Data Parameters
NAME Dec15-2006
EXPNO 3
PROCNO 1

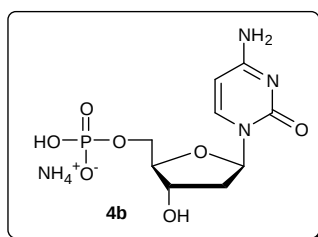
F2 - Acquisition Parameters
Date_ 20061215
Time 11.23
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 18
DS 4
SWH 46296.297 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 20642.5
DE 10.800 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

===== CHANNEL f1 =====
NUC1 31P
P1 6.75 usec
PL1 6.00 dB
SFO1 121.4960509 MHz

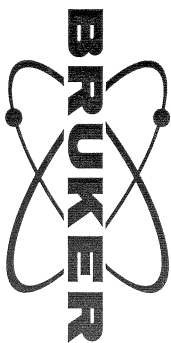
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 65536
SF 121.4948360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





1-(2'-deoxy- β -D-ribofuranosyl)-cytosine-5'-monophosphate, ammonium salt 4b



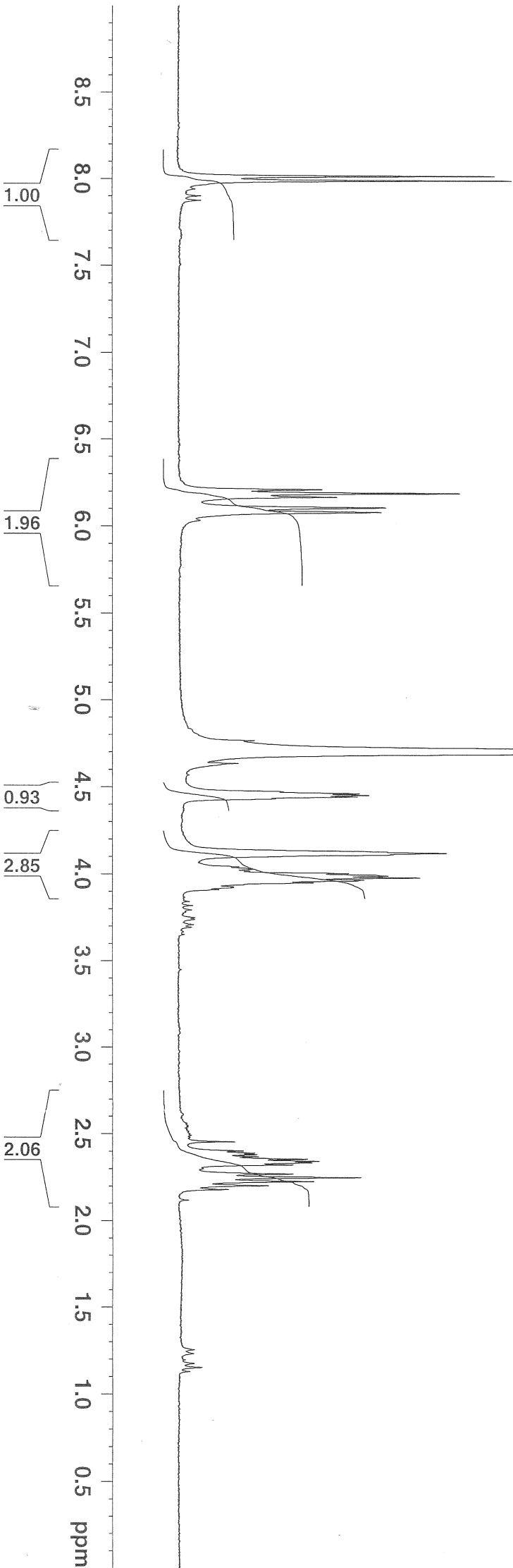
2405.22
2397.41
2383.33
2377.26
2371.29
2363.48
1863.57
1857.00
1850.50
1832.09
1824.34
1810.67
1430.33
1410.95
1390.74
1371.01
1342.50
1339.18
1336.30
1333.38
1330.06
1236.12
1233.63
1213.05
1210.08
1208.64
1205.69
1201.37
1198.37
1197.08
1193.88
1189.97
1188.48
1185.07
1178.39
1176.76
1173.37
1153.11
1145.99
1138.74
1125.25
1122.04
1113.34
1108.55
768.18
764.37
762.36
758.49
753.69
750.14
747.69
744.26
736.50
720.88
717.15
714.70
710.93
706.79
703.06
700.67
696.98
690.69
681.39

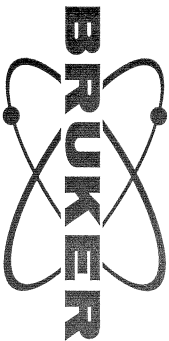
Current Data Parameters
NAME Nov06-2006
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20061106
Time 8.57
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT D2O
NS 32
DS 2
SWH 4844.961 Hz
FIDRES 0.147856 Hz
AQ 3.3817077 sec
RG 574.7
DW 103.200 usec
DE 8.00 usec
TE 300.0 K
D1 1.00000000 sec

==== CHANNEL f1 =====
NUC1 1H
P1 6.50 usec
PL1 -3.00 dB
SF01 300.1322660 MHz

F2 - Processing Parameters
SI 32768
SF 300.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





Current Data Parameters
NAME NGV06-2006
EXPNO 4
PROCNO 1

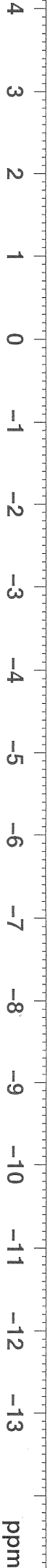
F2 - Acquisition Parameters
Date_ 20061106
Time 9.02
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 64
DS 4
SWH 46296.297 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 6502
DW 10.800 usec
DE 8.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

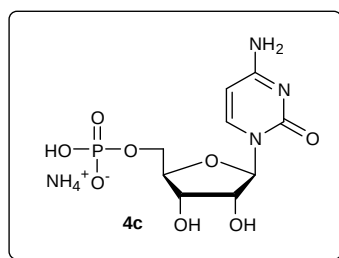
===== CHANNEL f1 =====
NUC1 31P
P1 6.75 usec
PL1 6.00 dB
SFO1 121.4960509 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

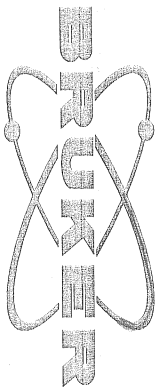
F2 - Processing parameters
SI 65536
SF 121.4948360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

0.87
0.23
-0.36





1-(β-D-ribofuranosyl)-cytosine-5'-monophosphate, ammonium salt 4c



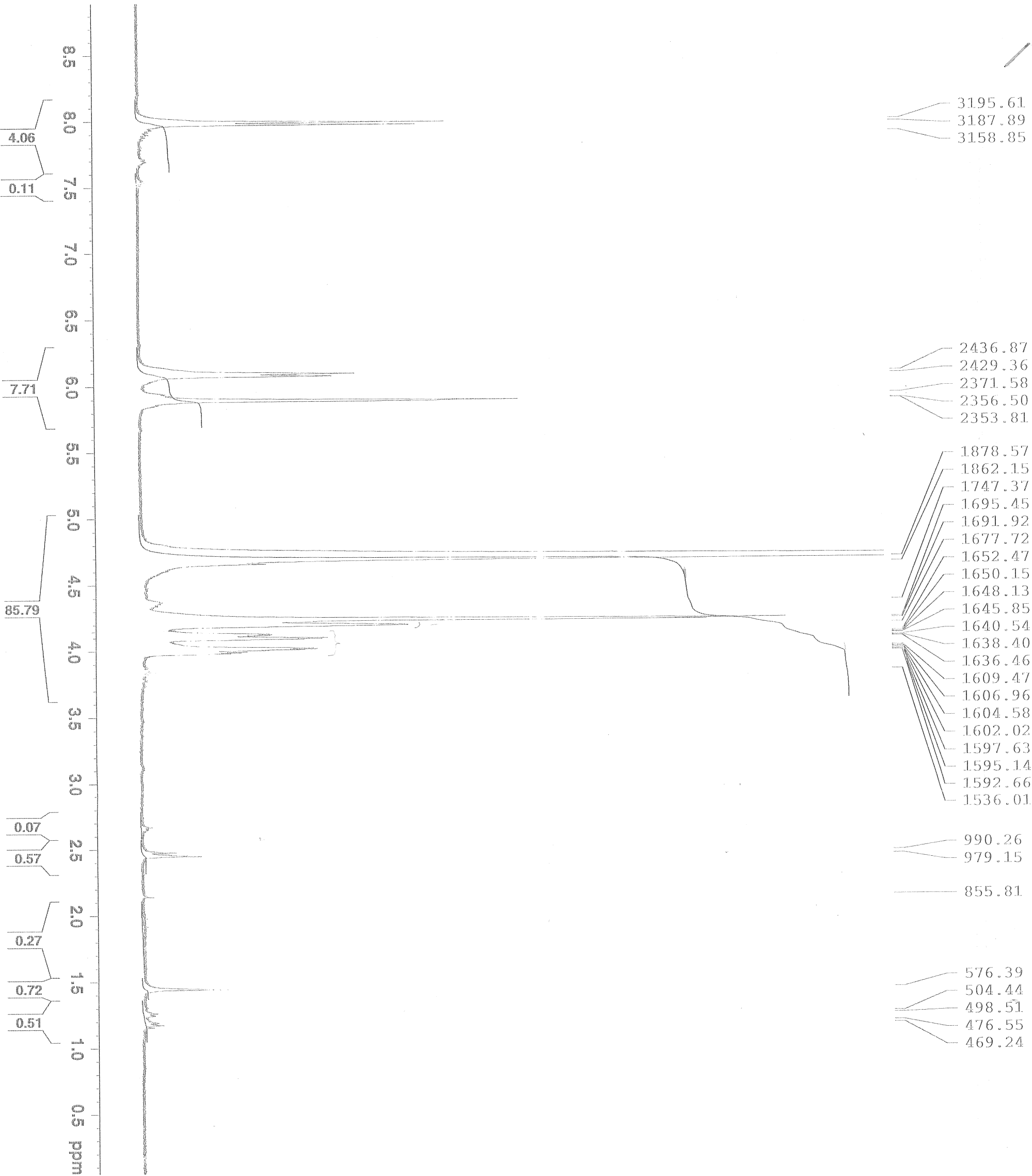
Current Data Parameters
NAME Nov10-2006-sp
EXNO 10
PROCNO 1

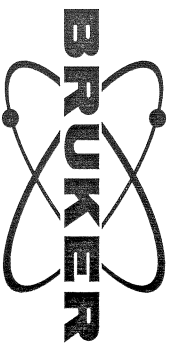
F2 - Acquisition Parameters

Date_ 20061110
Time 18:51
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zg30
TD 65536
SOLVENT D2O
NS 64
DS 2
SWH 6410.256 Hz
FIDRES 0.097813 Hz
AQ 5.118379 sec
RG 512
DW 78.000 usec
DE 8.00 usec
TE 298.0 K
D1 1.00000000 sec
DCREST 0.00000000 sec
MCWPRX 0.01500000 sec

===== CHANNEL f1 =====

NUC1 1H
P1 10.00 usec
PL -6.00 dB
SFO1 400.1330010 MHz
F2 - 13C
SI 377.68 MHz
SE 400.1300000 MHz
MCMW 0
SSB 0
LB 0.10 Hz
GB 0
PC 2.00





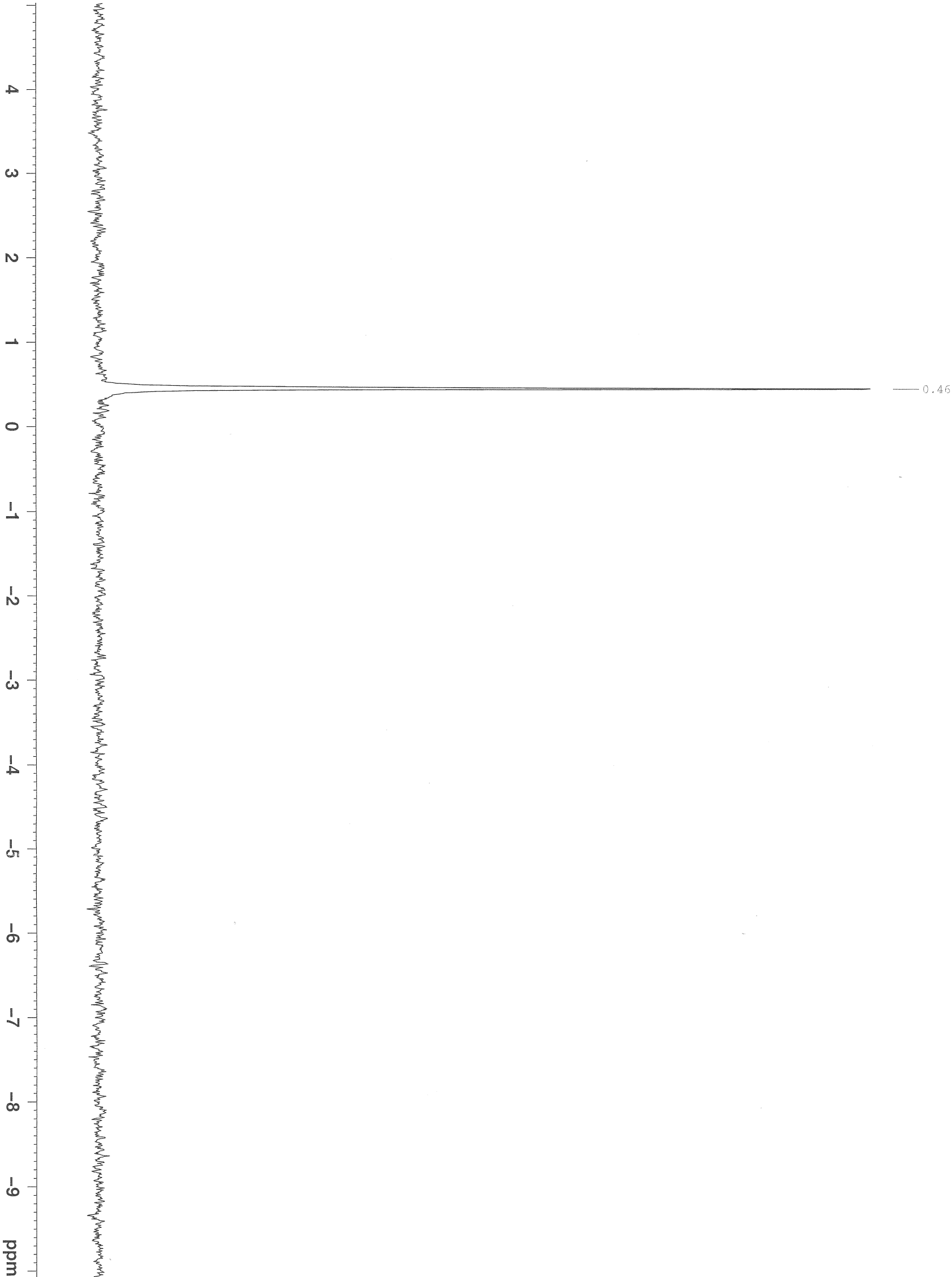
Current Data Parameters
NAME Dec04-2006
EXPNO 6
PROCNO 1

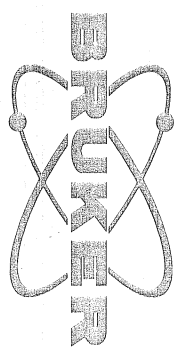
F2 - Acquisition Parameters
Date_ 20061204
Time 12.48
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 56
DS 4
SWH 46296.297 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 20642.5
DW 10.800 usec
DE 8.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

===== CHANNEL f1 =====
NUC1 31P
P1 6.75 usec
PL1 6.00 dB
SFO1 121.4960509 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 65536
SF 121.4948360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





Current Data Parameters
NAME Nov10-2006-sg
EXNO 13
PROCNO 1

F2 - Acquisition Parameters
Date_ 20061111
Time 0.09

INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 90.5
DM 20.850 usec
DE 6.00 usec
TE 297.9 K
D1 1.00000000 sec
d11 0.03000000 sec
DELTA 0.89999998 sec
MCREST 0.00000000 sec
MCWRR 0.01500000 sec

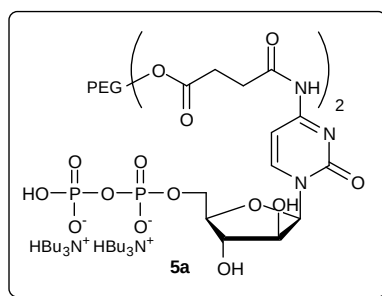
===== CHANNEL f1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 17.00 dB
PL13 120.00 dB
SFO2 400.1316003 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

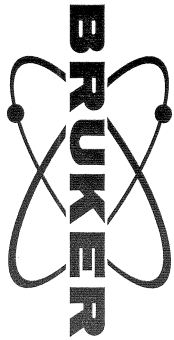
163.64
154.40
142.33
95.99
89.41
83.02
82.93
74.27
69.24
63.73
63.68

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



Poly(ethylene glycol)₄₀₀₀ Bis[4-*N*-(1-(5'-*O*-diphosphoryl-β-*D*-arabinofuranosyl)-cytosyl) succinate], tributylammonium salt 5a

ProtonPPA3 D2O ed ed 1

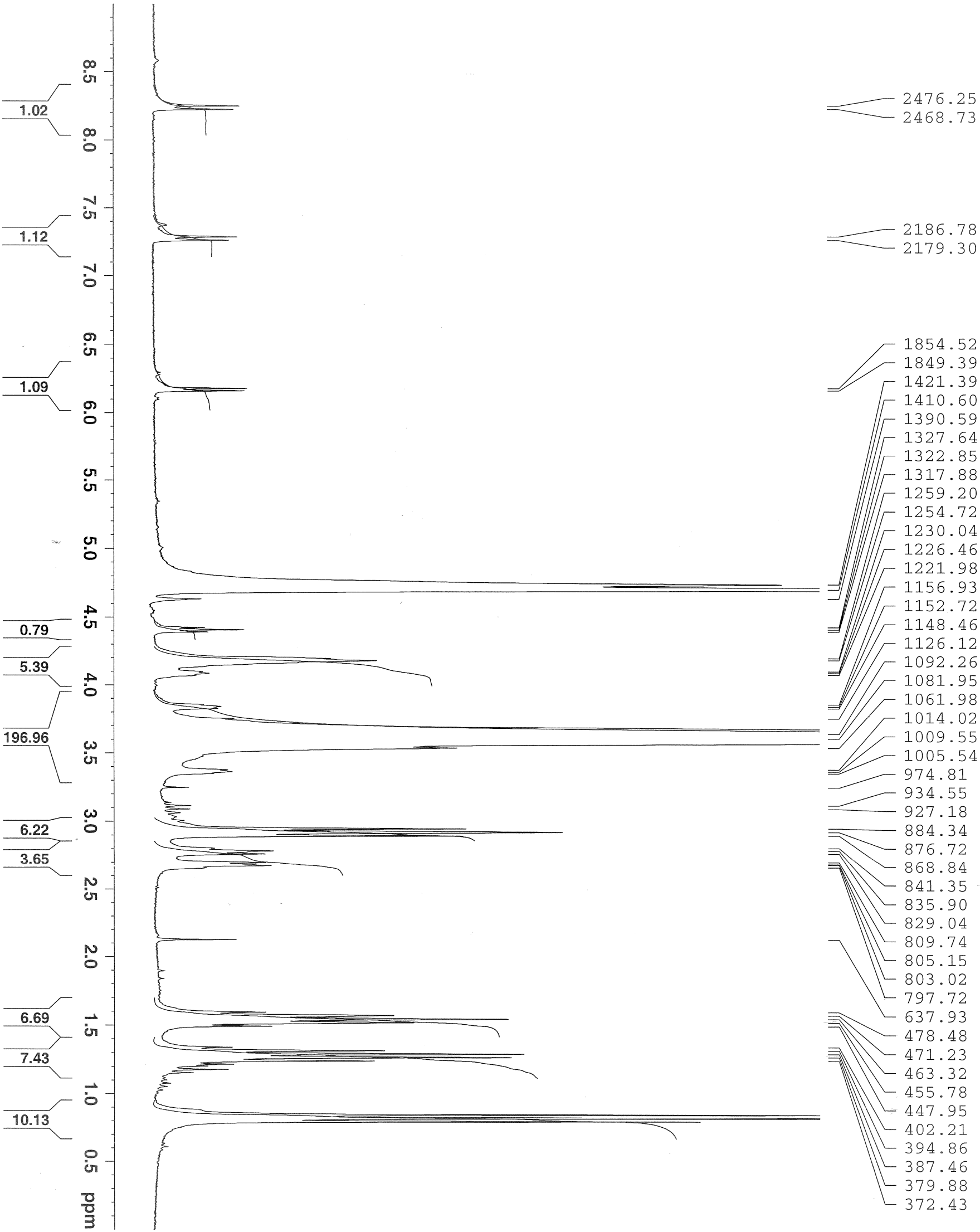


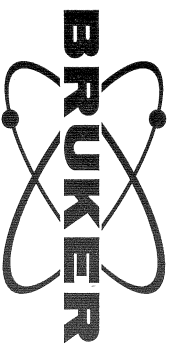
Current Data Parameters
NAME Sep25-2006
EXPNO 7
PROCNO 1

F2 - Acquisition Parameters
Date_ 20060925
Time 9.41
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT D2O
NS 64
DS 2
SWH 4844.961 Hz
FIDRES 0.147856 Hz
AQ 3.3817077 sec
RG 256
DW 103.200 usec
DE 8.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 6.50 usec
PL1 -3.00 dB
SFO1 300.1322660 MHz

F2 - Processing parameters
SI 32768
SF 300.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





Current Data Parameters
NAME Sep25-2006
EXPNO 8
PROCNO 1

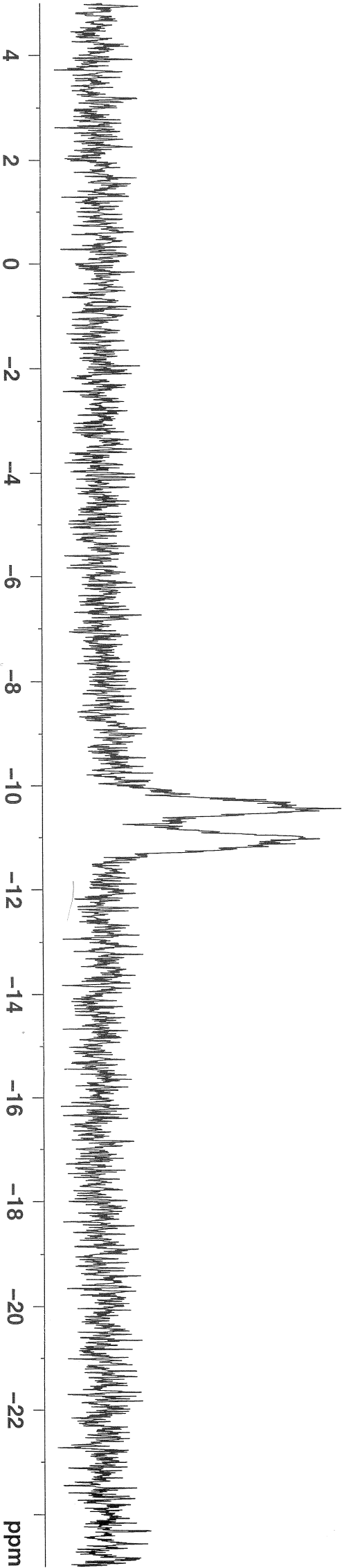
F2 - Acquisition Parameters
Date_ 20060925
Time 9.50
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 128
DS 4
SMH 46296.297 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 5792.6
DW 10.800 usec
DE 8.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

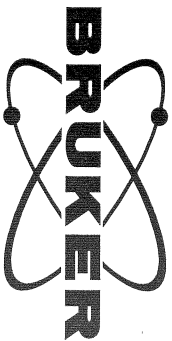
===== CHANNEL f1 =====
NUC1 31P
P1 6.75 usec
PL1 6.00 dB
SFO1 121.4960509 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 65536
SF 121.4948360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

-10.44
-11.03





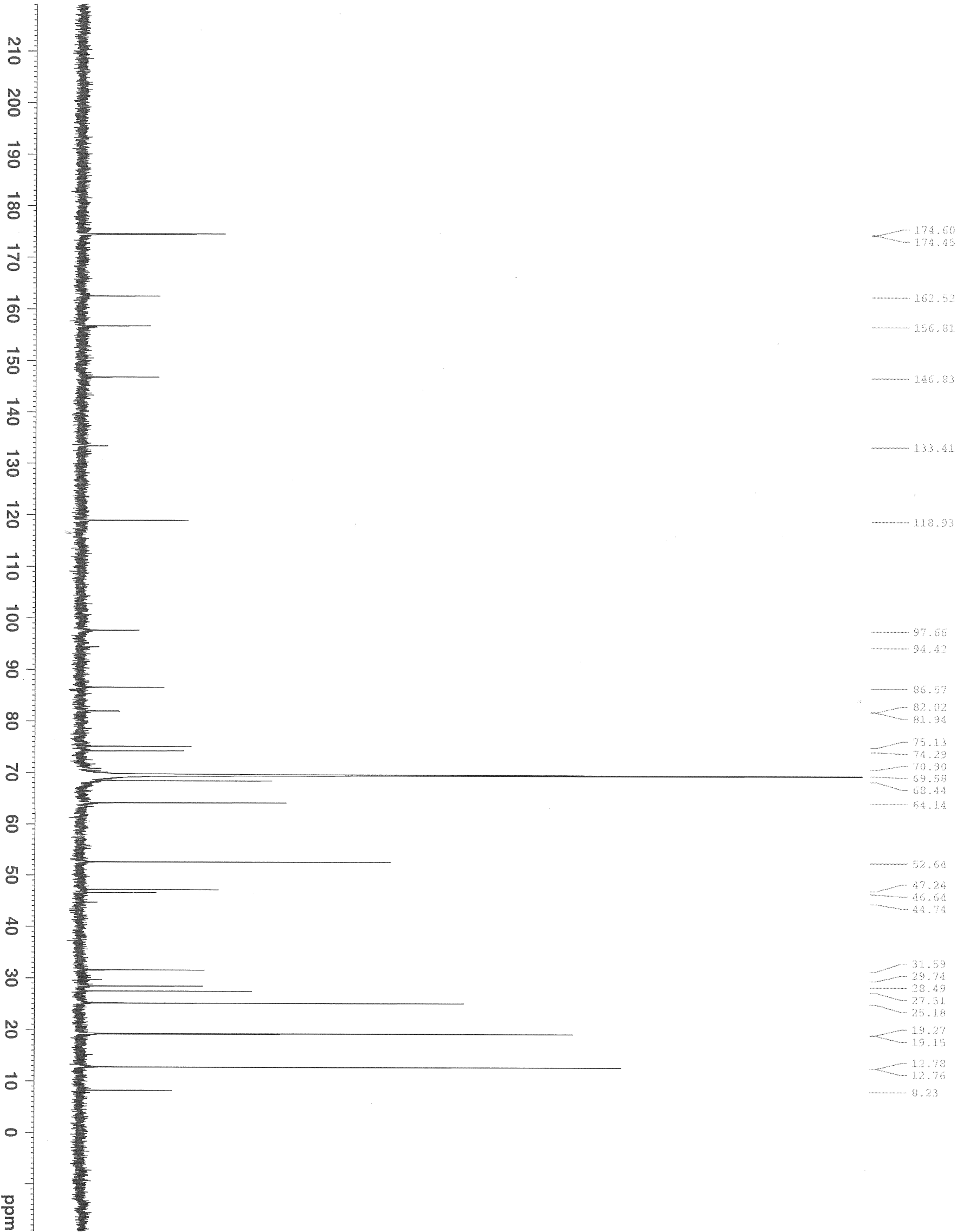
Current Data Parameters
NAME May29-2007-sp
EXPNO 10
PROCNO 1

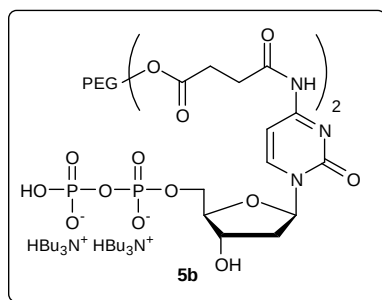
F2 - Acquisition Parameters
Date_ 20070530
Time 9.36
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
FIDRES 0.365918 Hz
RG 1.3664756 sec
RG 161.3
DW 20.850 usec
DE 6.00 usec
TE 298.0 K
D1 1.0000000 sec
d11 0.0300000 sec
DELTA 0.8993998 sec
MCREST 0.0000000 sec
MCWRK 0.0150000 sec

==== CHANNEL f1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SFO1 100.6228298 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 17.00 dB
PL13 120.00 dB
SFO2 400.1316005 MHz

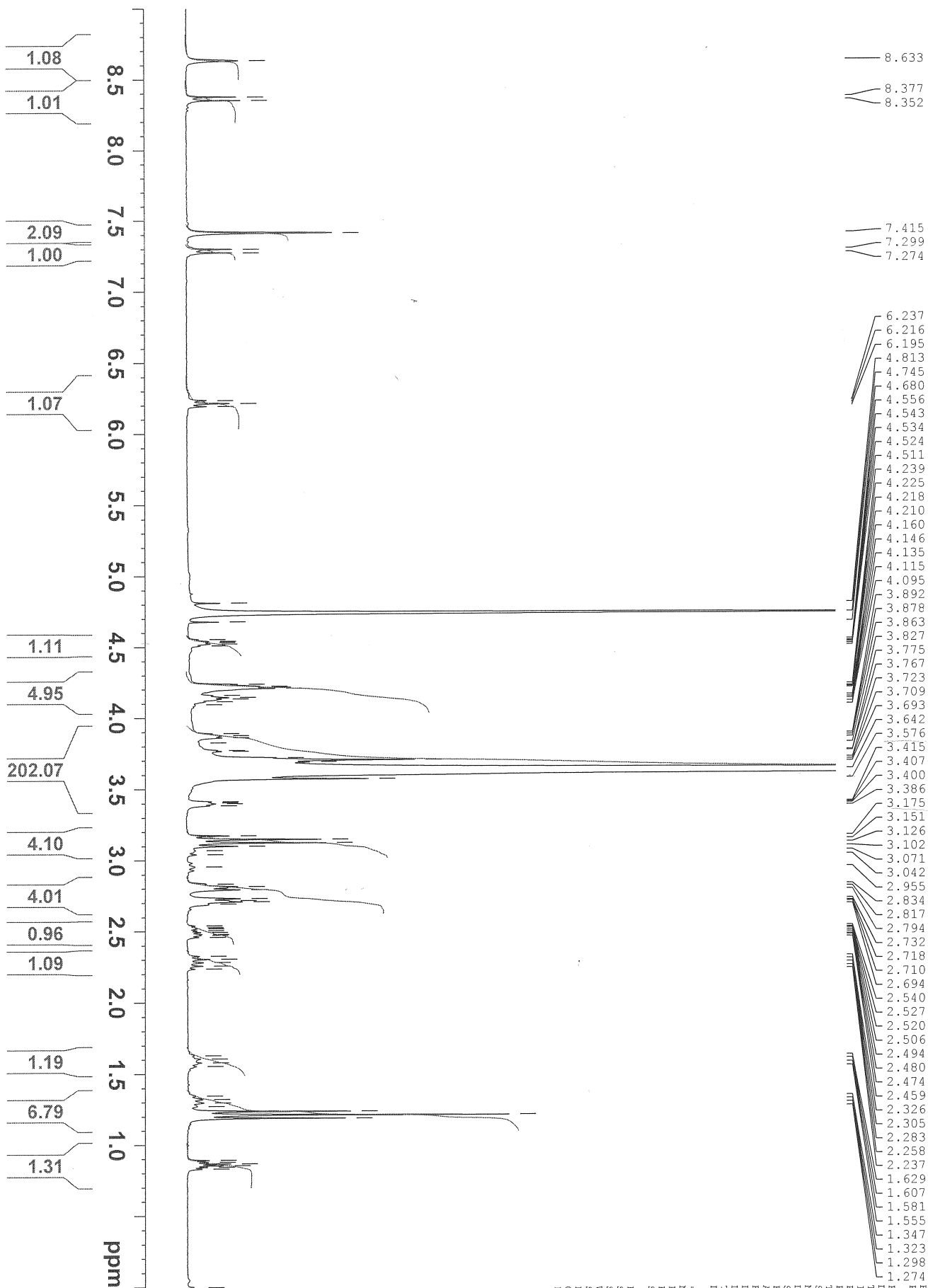
F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





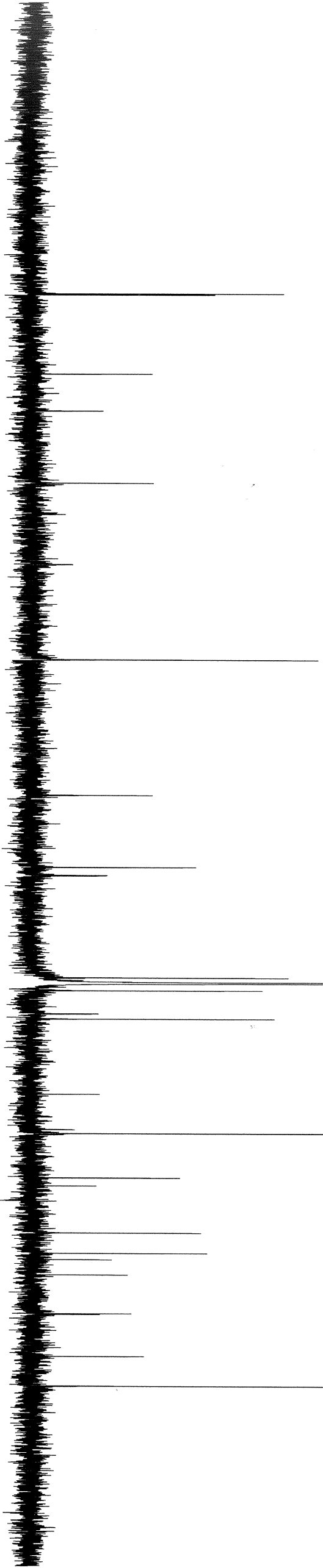
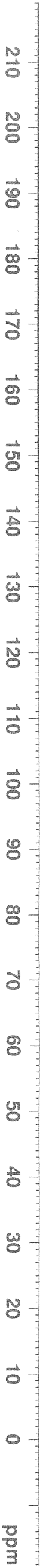
Poly(ethylene glycol)₄₀₀₀ Bis[4-*N*-(1-(2'-deoxy-5'-*O*-diphosphoryl- β -D-ribofuranosyl)-cytosyl) succinate], tributylammonium salt 5b

F100000000



Current Data Parameters
 NAME 3-cp-03282007
 EXPNO 10
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20070329
 Time 9.56
 INSTRUM spect
 PROBRD 5 mm QNP 1H/13
 PULPROG zg30
 TD 65536
 SOLVENT D2O
 NS 63
 DS 4
 SWH 4844.961 Hz
 FIDRES 0.147856 Hz
 AQ 3.3817077 sec
 RG 256
 DW 103.200 usec
 DE 8.00 usec
 TE 300.0 K
 D1 1.00000000 sec
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 1H
 PL1 5.50 usec
 PR1 0.00 dB
 SFO1 300.1322660 MHz
 F2 - Processing parameters
 SI 32768
 SF 300.1299867 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

-10.826
-11.251



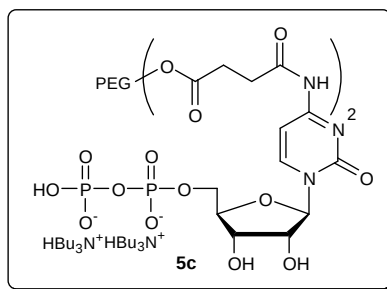
Current Data Parameters
NAME 9-29-03-sp
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070330
Time 9.29
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 22082
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 512
DM 20.850 usec
DE 6.00 usec
TE 297.9 K
D1 1.00000000 sec
d11 0.03000000 sec
DELTA 0.89999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

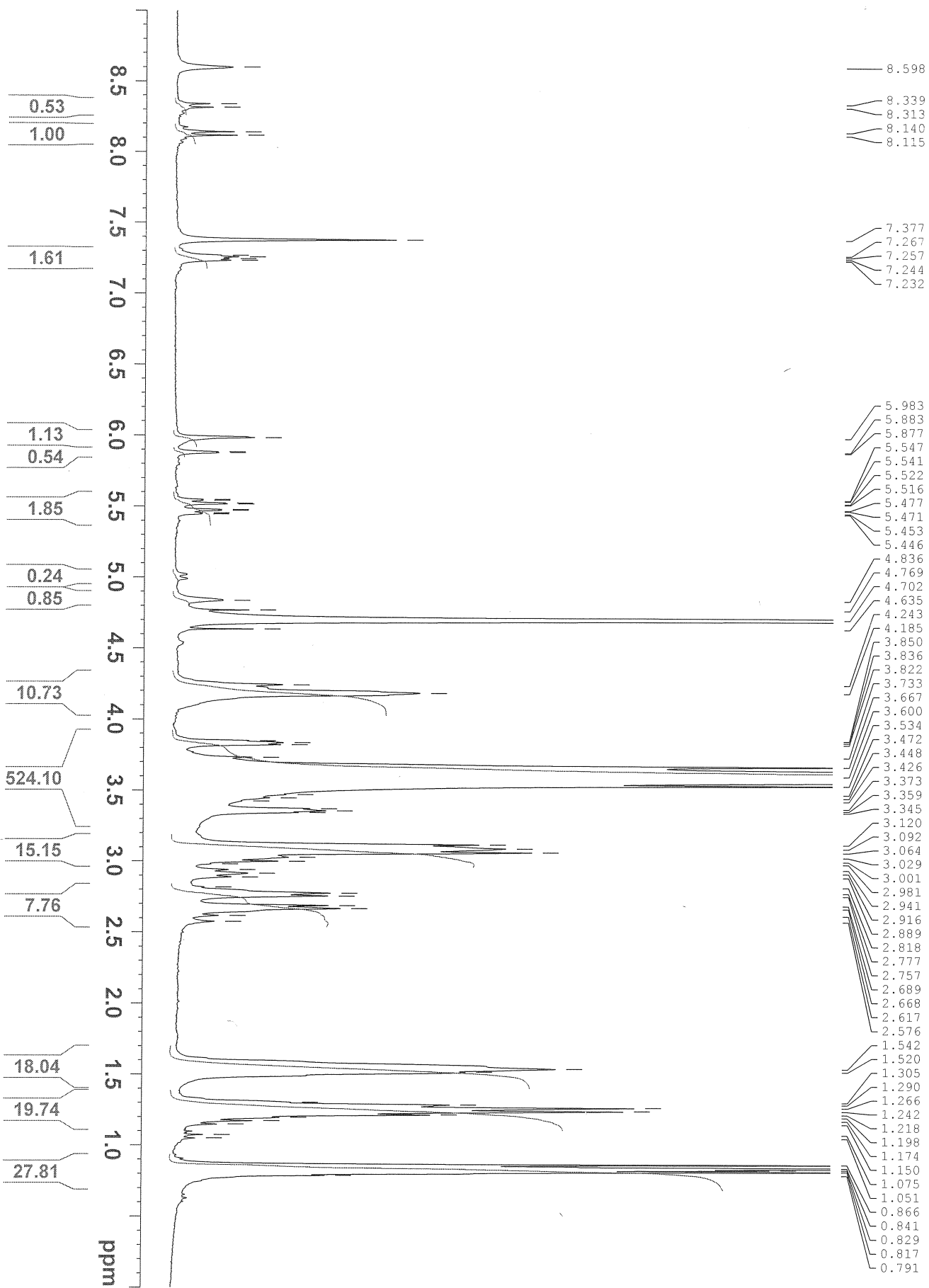
===== CHANNEL f1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 17.00 dB
PL13 120.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

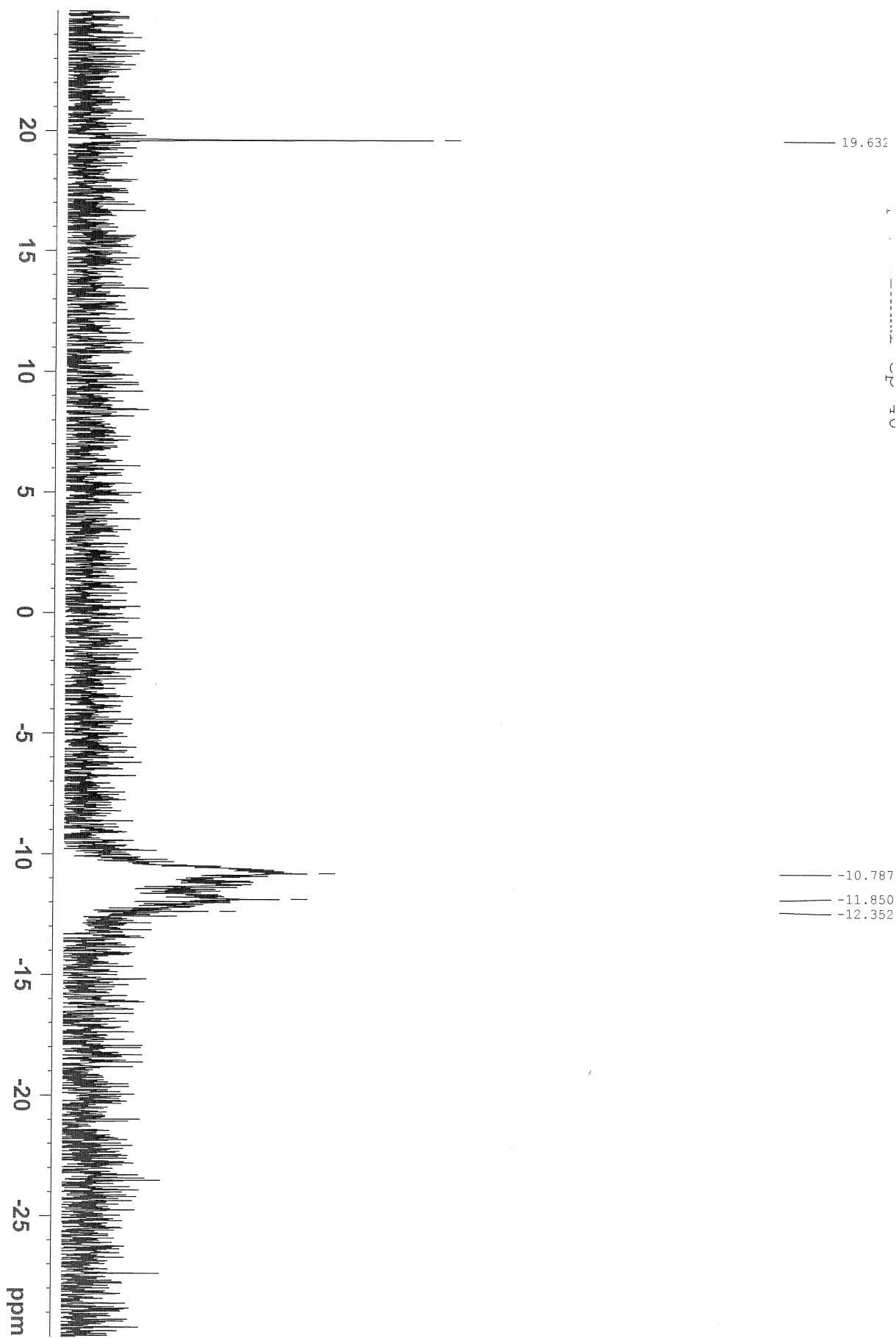


Poly(ethylene glycol)₄₀₀₀ Bis[4-*N*-(1-(5'-*O*-diphosphoryl-β-*D*-ribofuranosyl)-cytosyl)succinate], tributylammonium salt 5c

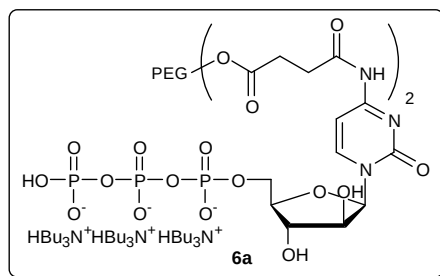


- 8.598
- 8.339
- 8.313
- 8.140
- 8.115
- 7.377
- 7.267
- 7.257
- 7.244
- 7.232
- 5.983
- 5.883
- 5.877
- 5.547
- 5.541
- 5.522
- 5.516
- 5.477
- 5.471
- 5.453
- 5.446
- 4.836
- 4.769
- 4.702
- 4.635
- 4.243
- 4.185
- 3.850
- 3.836
- 3.822
- 3.733
- 3.667
- 3.600
- 3.534
- 3.472
- 3.448
- 3.426
- 3.373
- 3.359
- 3.345
- 3.120
- 3.092
- 3.064
- 3.029
- 3.001
- 2.981
- 2.941
- 2.916
- 2.889
- 2.818
- 2.777
- 2.757
- 2.689
- 2.668
- 2.617
- 2.576
- 1.542
- 1.520
- 1.305
- 1.290
- 1.266
- 1.242
- 1.218
- 1.198
- 1.174
- 1.150
- 1.075
- 1.051
- 0.866
- 0.841
- 0.829
- 0.817
- 0.791

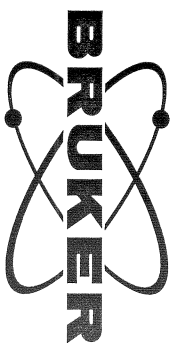
Current Data Parameters
 NAME 40-cp-05032007
 EXPNO 10
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20070503
 Time 10.02
 INSTRUM spect
 PROBD 5 mm QNP 1H/13
 PULPROG zg30
 TD 32768
 FIDRES 4844.961 Hz
 AQ 0.147856 Hz
 RG 3.381707 sec
 DE 128 usec
 TE 300.0 K
 D1 1.0000000 sec
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 6.50 usec
 PL1 -3.00 dB
 SFO1 300.1322660 MHz
 F2 - Processing parameters
 SI 32768
 SF 300.130000 MHz
 MDW 0
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME 40-cp-05032007
 EXPNO 11
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20070503
 Time 00:12
 INSTRUM spect
 PROBRD 5 mm QNP 1H/13
 PULPROG zgpg30
 F2 129.77
 SOLVENT DMSO
 NS 128
 DS 4
 SWH 46296.293 Hz
 FIDRES 0.353113 Hz
 AQ 1.4156276 sec
 RG 832
 WB 10.8533 K
 TB 8.00 usec
 LB 300.0 K
 GB 0.0300000 sec
 d11 0.0000000 sec
 d12 0.0002000 sec
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 6.75 usec
 PL1 6.00 dB
 SFO1 121.466099 MHz
 ===== CHANNEL f2 =====
 NUC2 1H
 P2 190.00 usec
 PL2 0.00 dB
 SFO2 500.1312005 MHz
 P3 - Processing parameters
 SI 65536
 SF 121.4948660 MHz
 DS 8K
 SSB 1.00 Hz
 LB 0
 GB 1.40



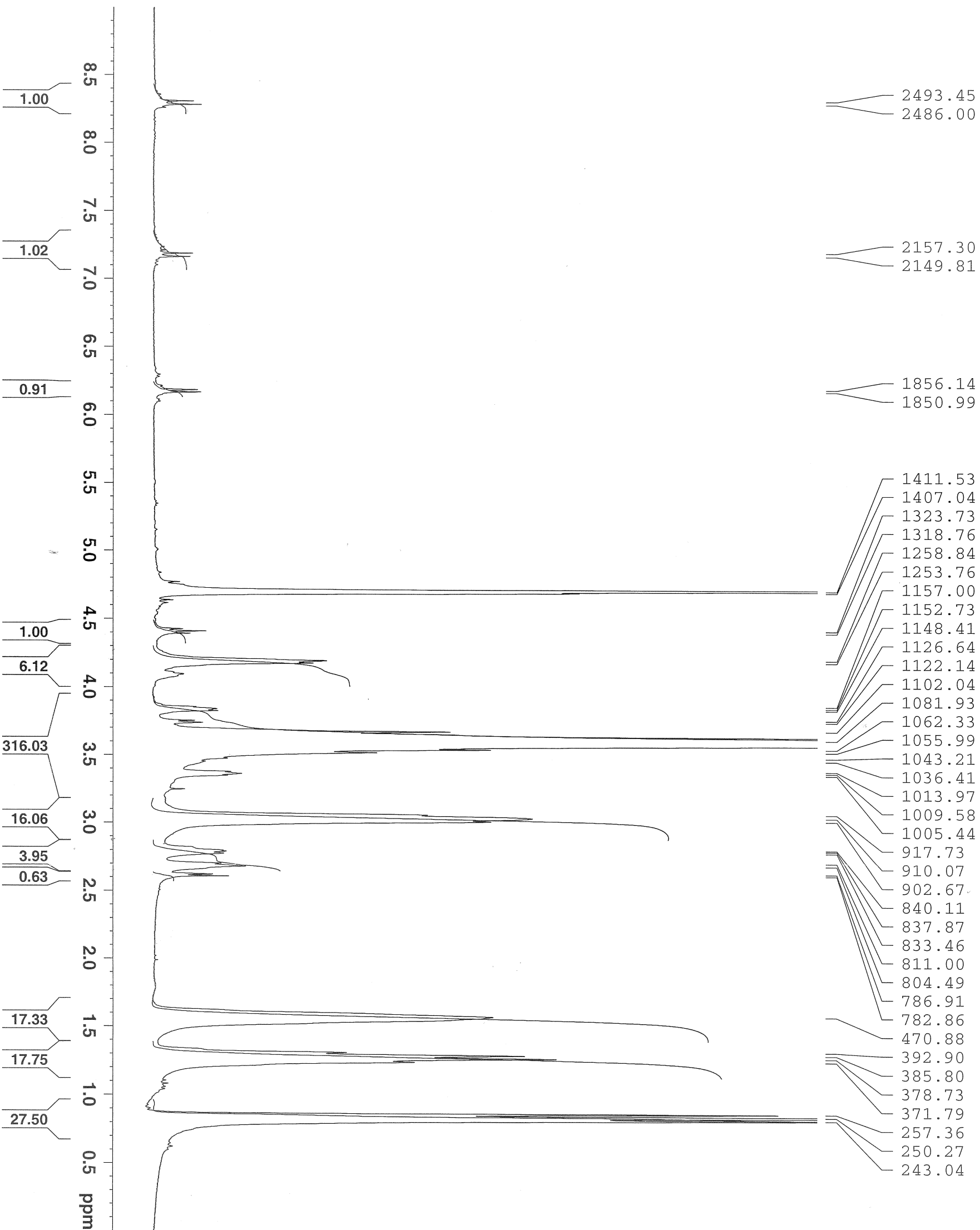
Poly(ethylene glycol)₄₀₀₀ Bis[4-*N*-(1-(5'-*O*-triphosphoryl-β-*D*-arabinofuranosyl)-cytosyl) succinate], tributylammonium salt 6a

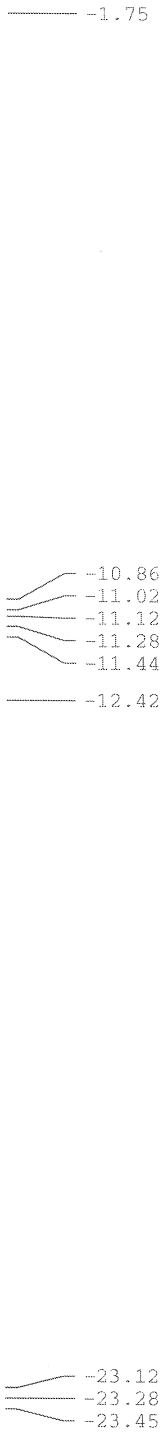
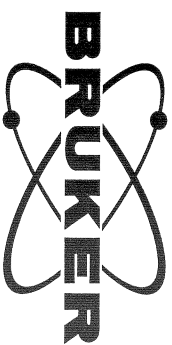


Current Data Parameters
NAME Sep25-2006
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20060925
Time 8.48
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT D2O
NS 64
DS 2
SWH 4844.961 Hz
FIDRES 0.147856 Hz
AQ 3.3817077 sec
RG 128
DW 103.200 usec
DE 8.00 usec
TE 300.0 K
D1 1.00000000 sec

==== CHANNEL F1 =====
NUC1 1H
P1 6.50 usec
PL1 -3.00 dB
SFO1 300.1322660 MHz
F2 - Processing Parameters
SI 32768
SF 300.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





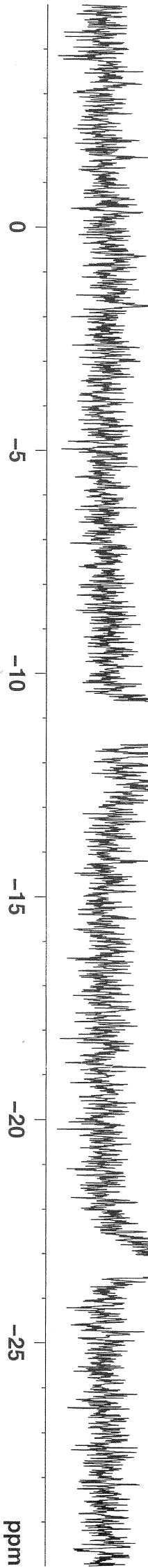
Current Data Parameters
NAME Sep25-2006
EXPNO 2
PROCNO 1

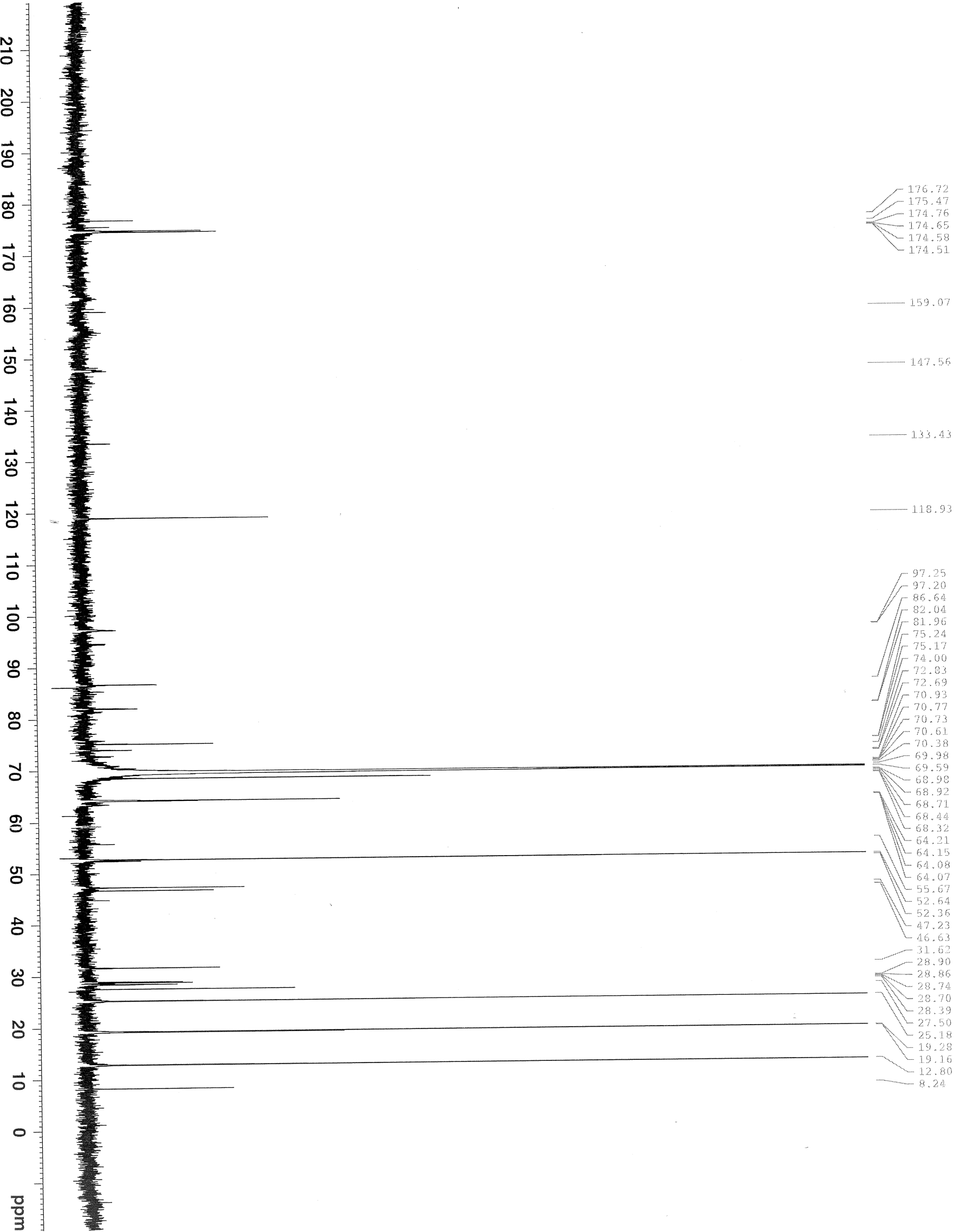
F2 - Acquisition Parameters
Date_ 20060925
Time 8.57
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 128
DS 4
SWH 46296.297 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 20642.5
DW 10.800 usec
DE 8.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

===== CHANNEL f1 =====
NUC1 31P
P1 6.75 usec
PL1 6.00 dB
SFO1 121.4960509 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 65536
SF 121.4948360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





176.72
175.47
174.76
174.65
174.58
174.51

159.07

147.56

133.43

118.93

97.25
97.20
86.64
82.04
81.96
75.24
75.17
74.00
72.83
72.69
70.93
70.77
70.73
70.61
70.38
69.98
69.59
68.98
68.92
68.71
68.44
68.32
64.21
64.15
64.08
64.07
55.67
52.64
52.36
47.23
46.63
31.62
28.90
28.86
28.74
28.70
28.39
27.50
25.18
19.28
19.16
12.80
8.24

Current Data Parameters
NAME May15-2007-sp
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070515
Time 17.20
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 143.7
DW 20.850 usec
DE 6.00 usec
TE 298.1 K
D1 1.00000000 sec
d11 0.03000000 sec
DELTA 0.89999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SFO1 100.628298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 17.00 dB
PLI3 120.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 0.50



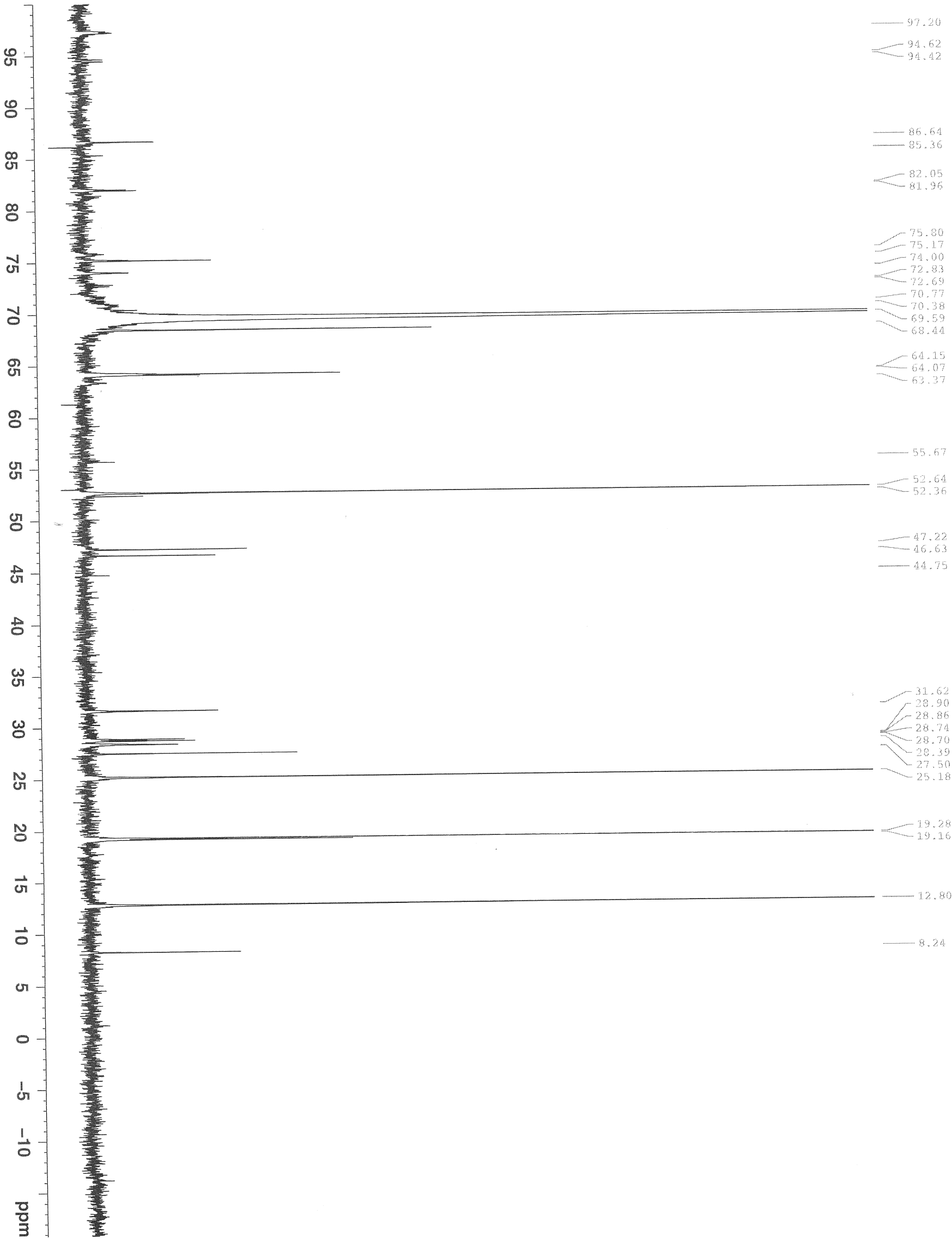
Current Data Parameters
NAME May15-2007-sp
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070515
Time 17.20
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 143.7
DW 20.850 usec
DE 6.00 usec
TE 298.1 K
D1 1.00000000 sec
d11 0.03000000 sec
DELTA 0.89999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

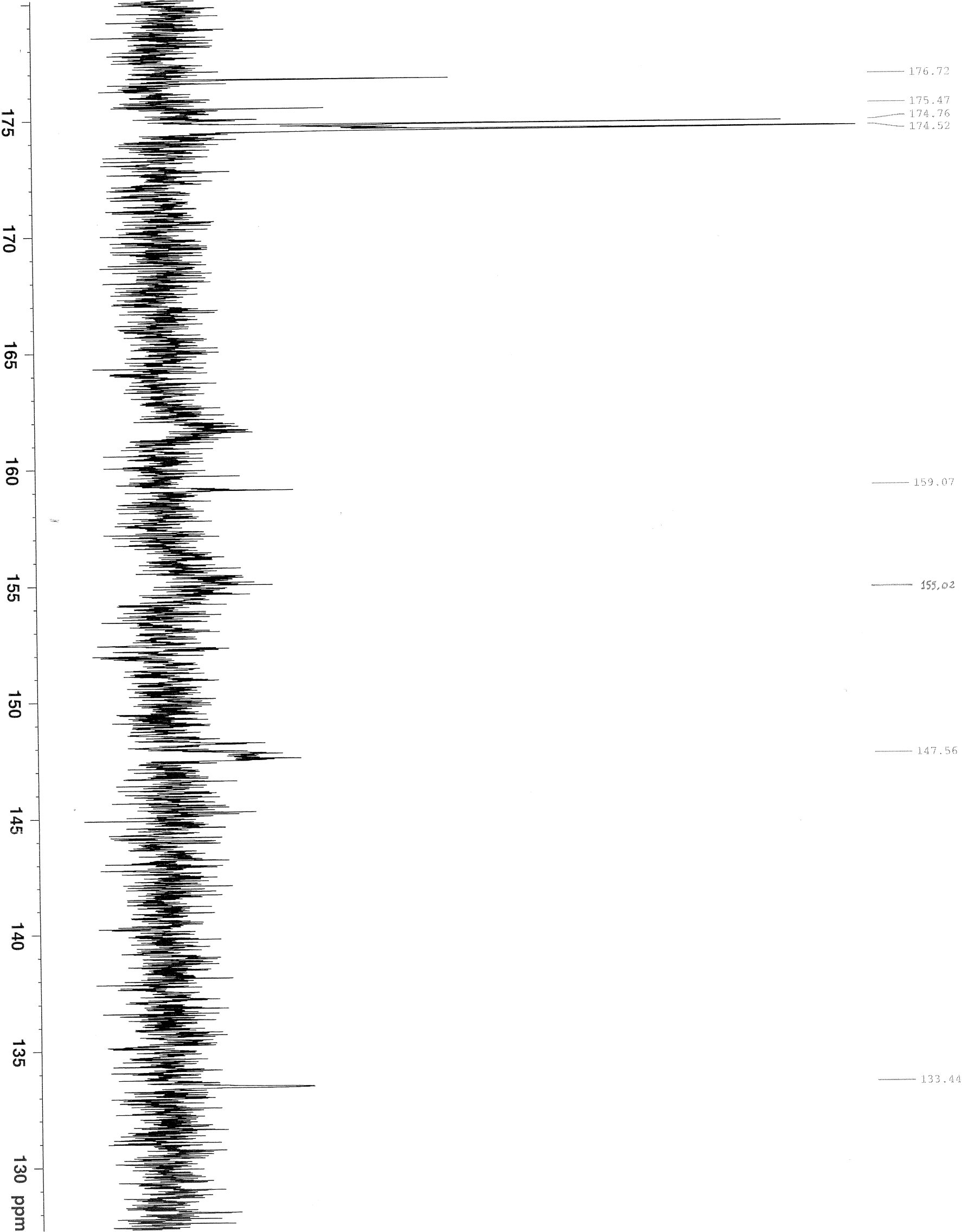
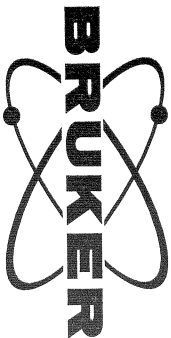
===== CHANNEL f1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 17.00 dB
PL13 120.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



C



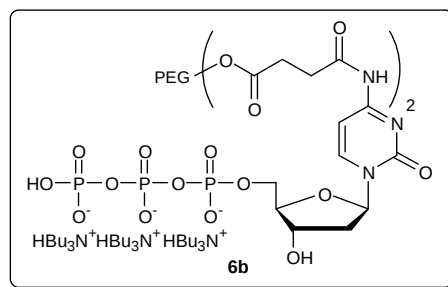
Current Data Parameters
NAME May15-2007-sp
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070515
Time 17.20
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
D20
SOLVENT D2O
NS 26023
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 143.7
DW 20.850 usec
DE 6.00 usec
TE 298.1 K
D1 1.00000000 sec
d11 0.03000000 sec
DELTA 0.89999998 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 6.00 usec
PL1 -6.00 dB
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -6.00 dB
PL12 17.00 dB
PL13 120.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 0.50



Poly(ethylene glycol)₄₀₀₀ Bis[4-*N*-(1-(2'-deoxy-5'-*O*-triphosphoryl-β-D-ribofuranosyl)-cytosyl) succinate], tributylammonium salt 6b

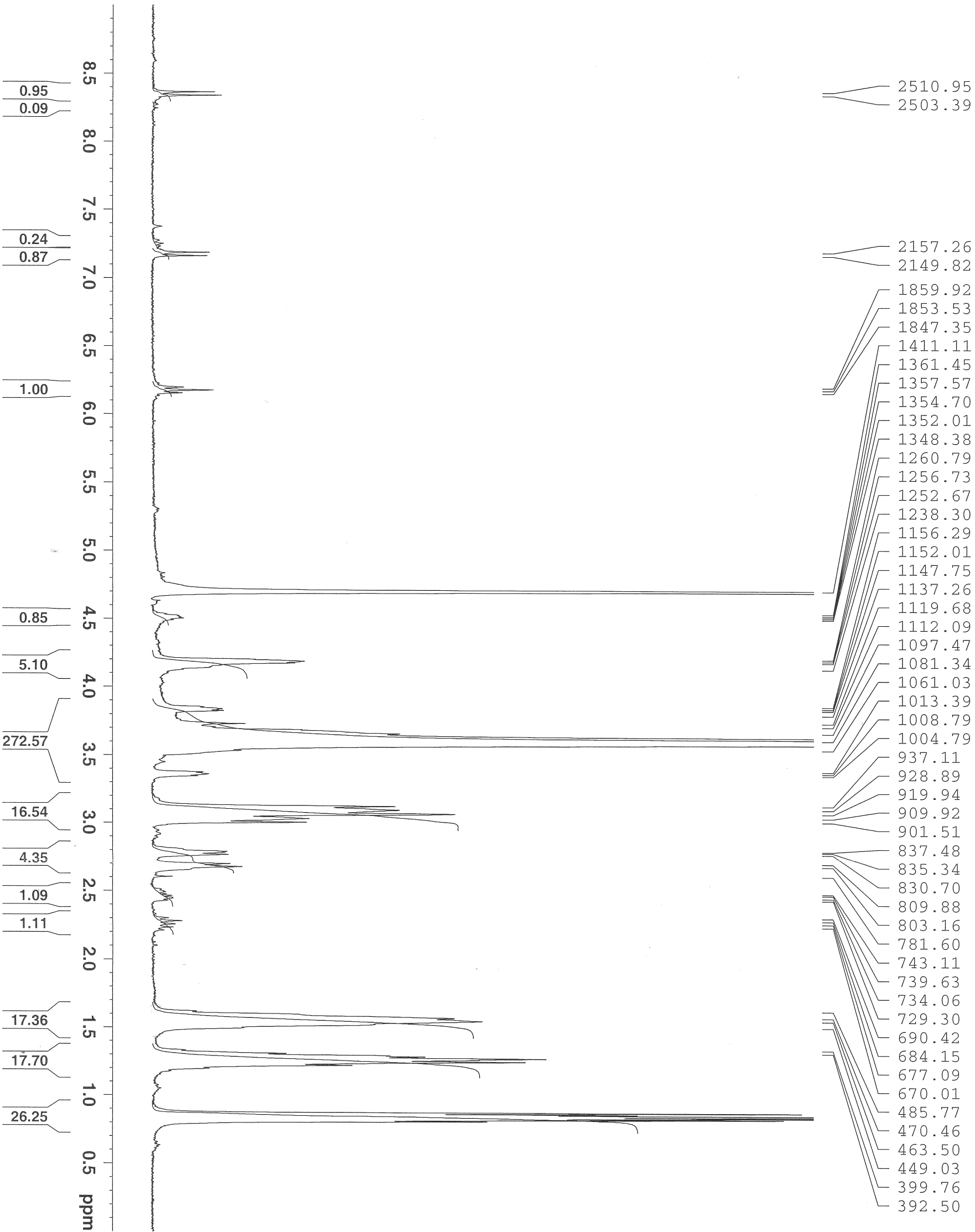


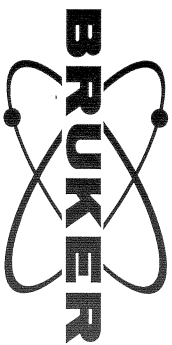
Current Data Parameters
NAME Mar26-2007
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070326
Time 11.10
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT D2O
NS 32
DS 2
SWH 4844.961 Hz
FIDRES 0.147856 Hz
AQ 3.3817077 sec
RG 256
DW 103.200 usec
DE 8.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 6.50 usec
PL1 -3.00 dB
SFO1 300.1322660 MHz

F2 - Processing parameters
SI 32768
SF 300.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





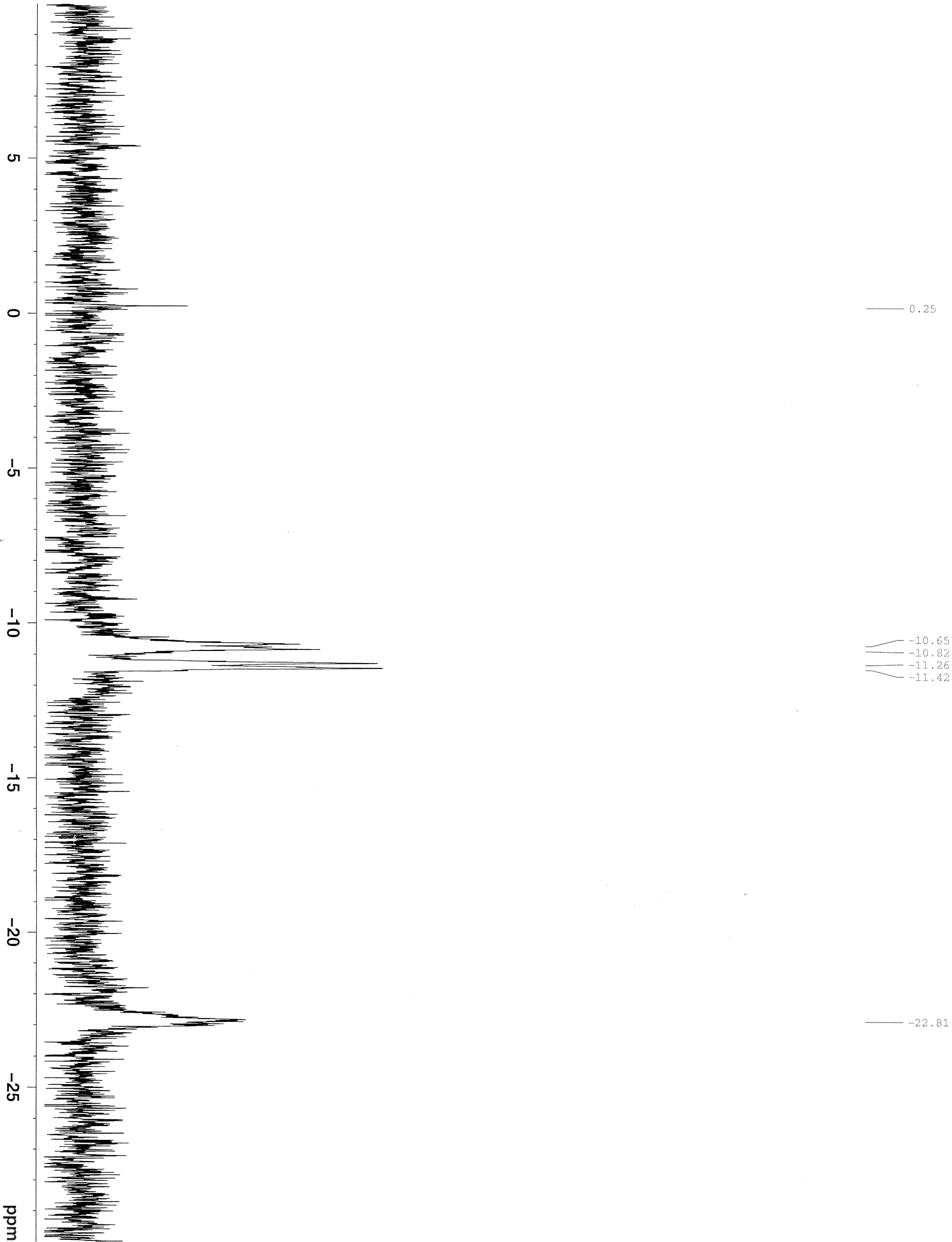
Current Data Parameters
NAME Mar26-2007
EXPNO 6
PROCNO 1

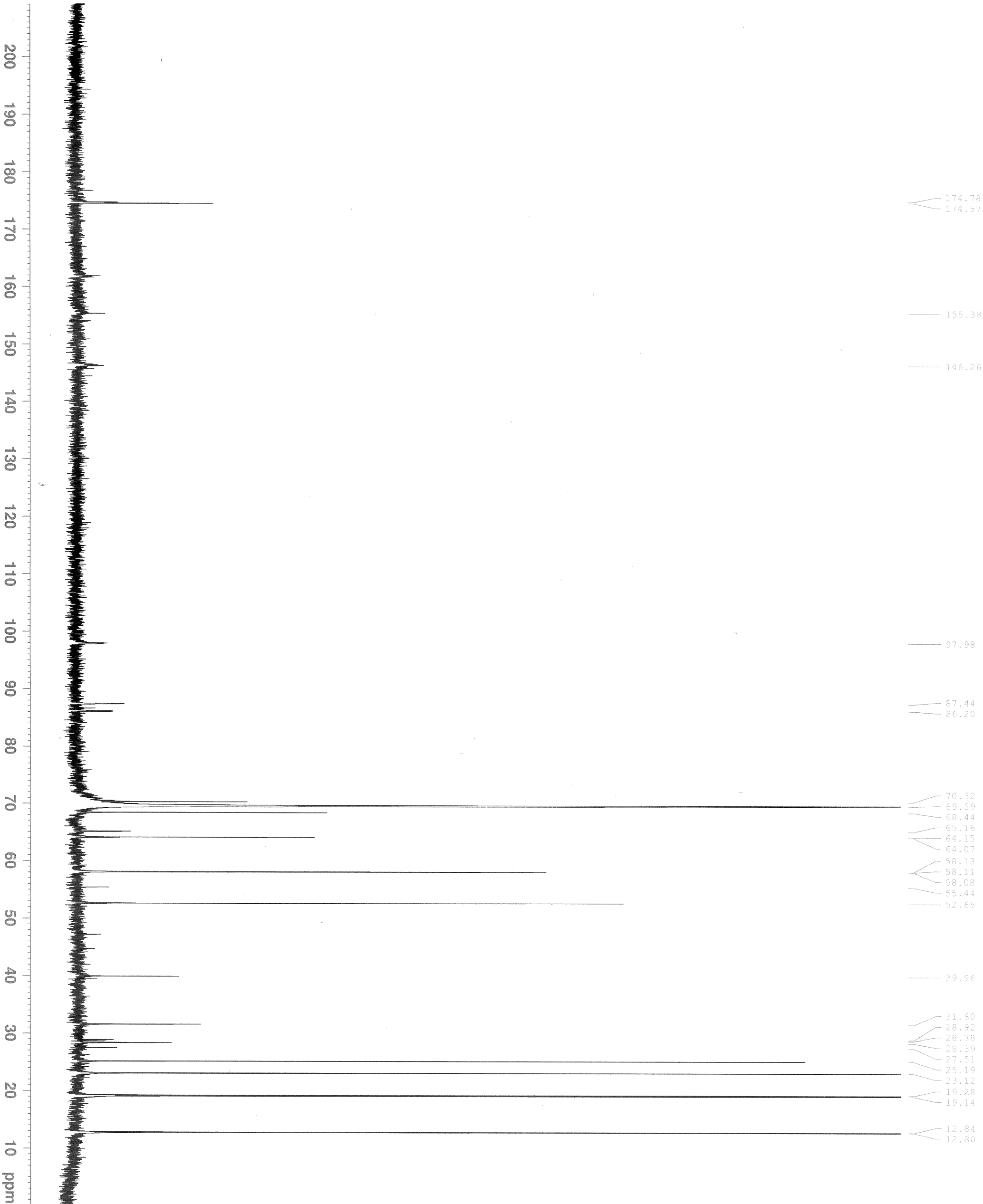
F2 - Acquisition Parameters
Date_ 20070326
Time 11.15
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 128
DS 4
SWH 46296.297 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 10321.3
DW 10.800 usec
DE 8.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

==== CHANNEL f1 =====
NUC1 31P
P1 6.75 usec
PL1 6.00 dB
SFO1 121.4960509 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 65536
SF 121.4948360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





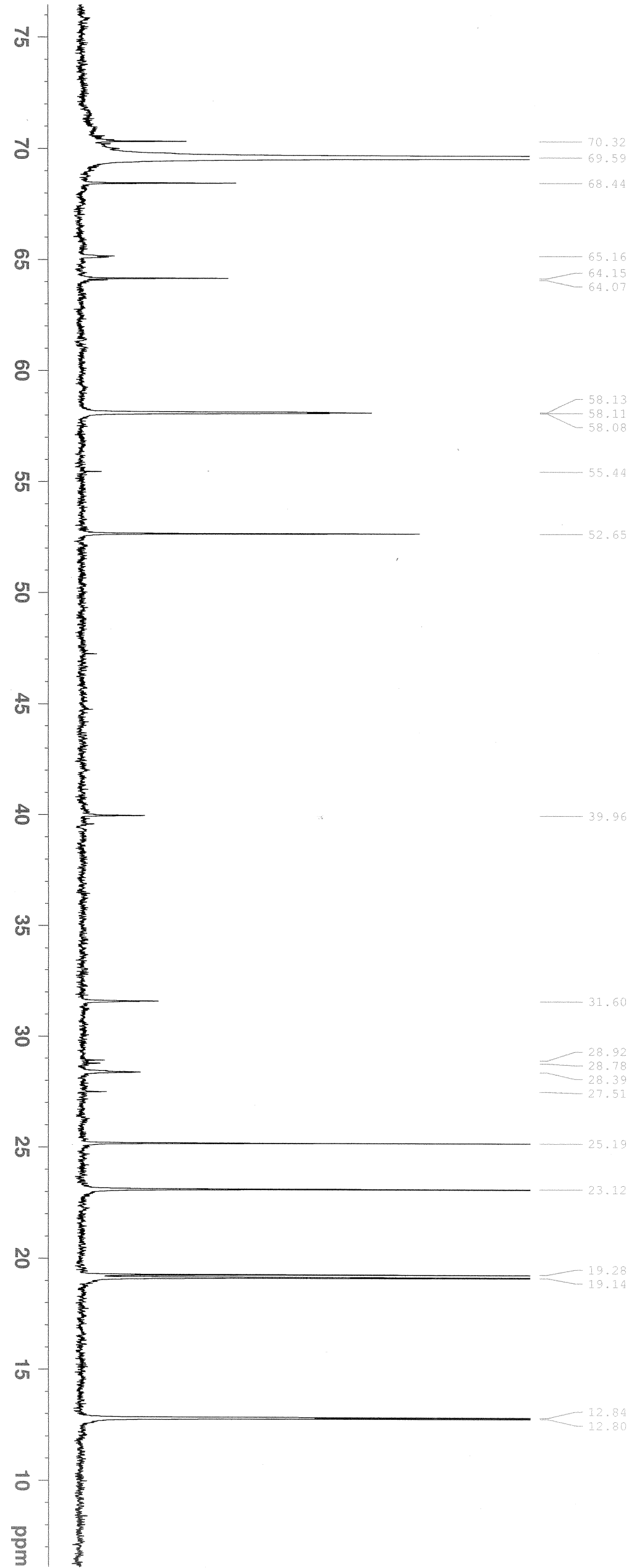
Current Data Parameters
NAME Mar27-2007-sp
EXPNO 12
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070328
Time 7.52
INSTRUM spect
PROBHD 5 mm Dual 13c/
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 23932
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 se
RG 362
DW 20.850 us
DE 6.00 us
TE 298.0 K
D1 1.00000000 se
d11 0.03000000 se
DELTA 0.89999998 se
MCREST 0.00000000 se
MCWRR 0.01500000 se

===== CHANNEL f1 =====
NUC1 13C
P1 6.00 us
PL1 -6.00 dB
SFO1 100.6228298 MH

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 us
PL2 -6.00 dB
PL12 17.00 dB
PL13 120.00 dB
SFO2 400.1316005 MH

F2 - Processing parameters
SI 32768
SF 100.6127690 MH
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



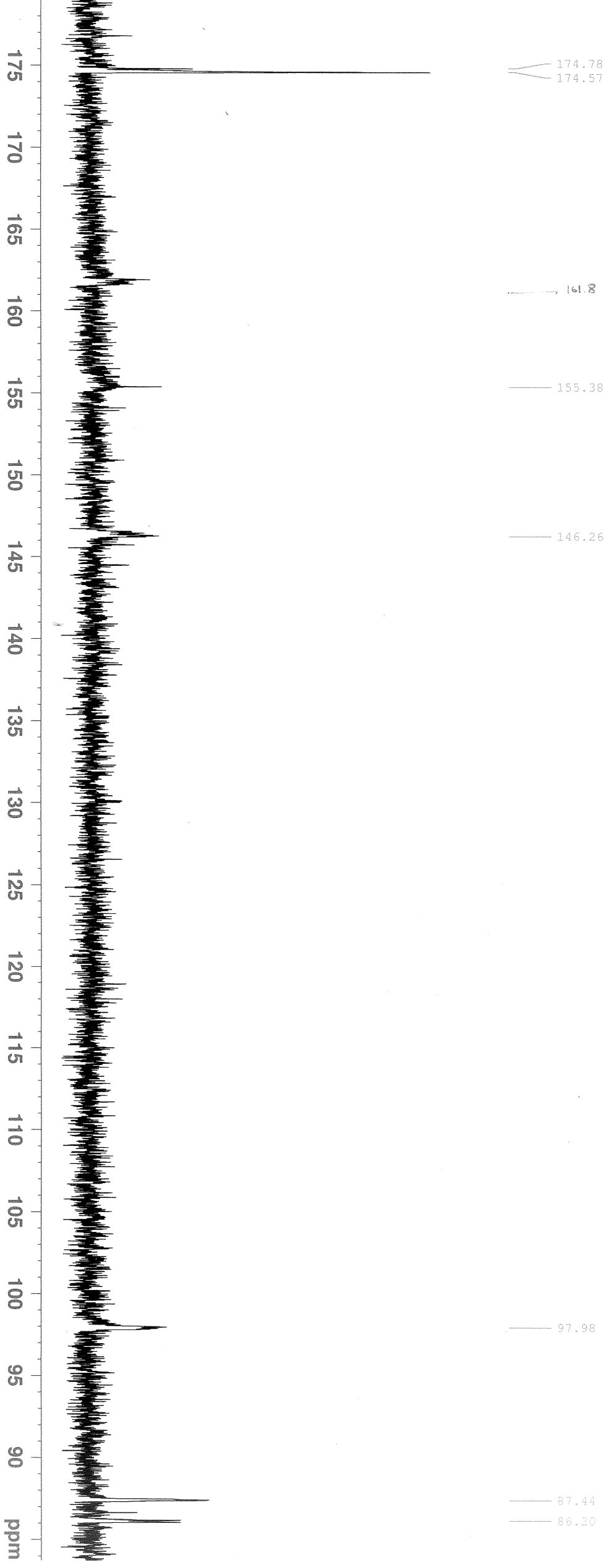
Current Data Parameters
NAME Mar27-2007-sp
EXPNO 12
PROCNO 1

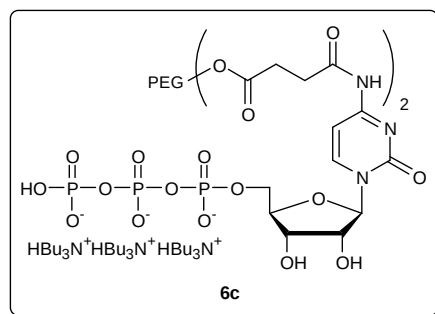
F2 - Acquisition Parameters
Date_ 20070328
Time 7.52
INSTRUM spect
PROBHD 5 mm Dual 13C/
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 23932
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 se
RG 362
DW 20.850 us
DE 6.00 us
TE 298.0 K
D1 1.00000000 se
d11 0.03000000 se
DELTA 0.89999998 se
MCREST 0.00000000 se
MCWRR 0.01500000 se

===== CHANNEL f1 =====
NUC1 13C
P1 6.00 us
PL1 -6.00 dB
SFO1 100.6228298 MH

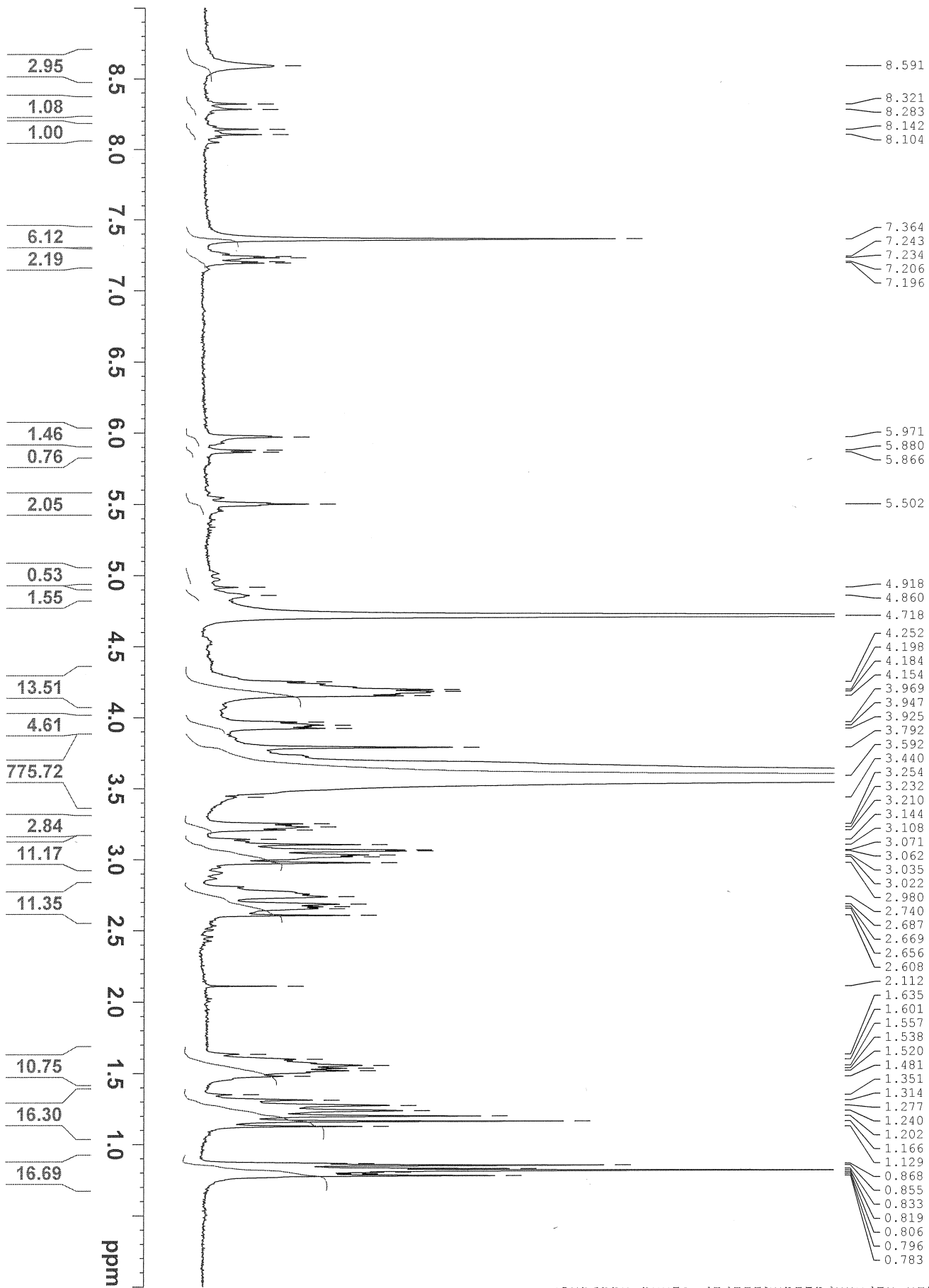
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 us
PL2 -6.00 dB
PL12 17.00 dB
PLI3 120.00 dB
SFO2 400.1316005 MH

F2 - Processing parameters
SI 32768
SF 100.6127690 MH
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



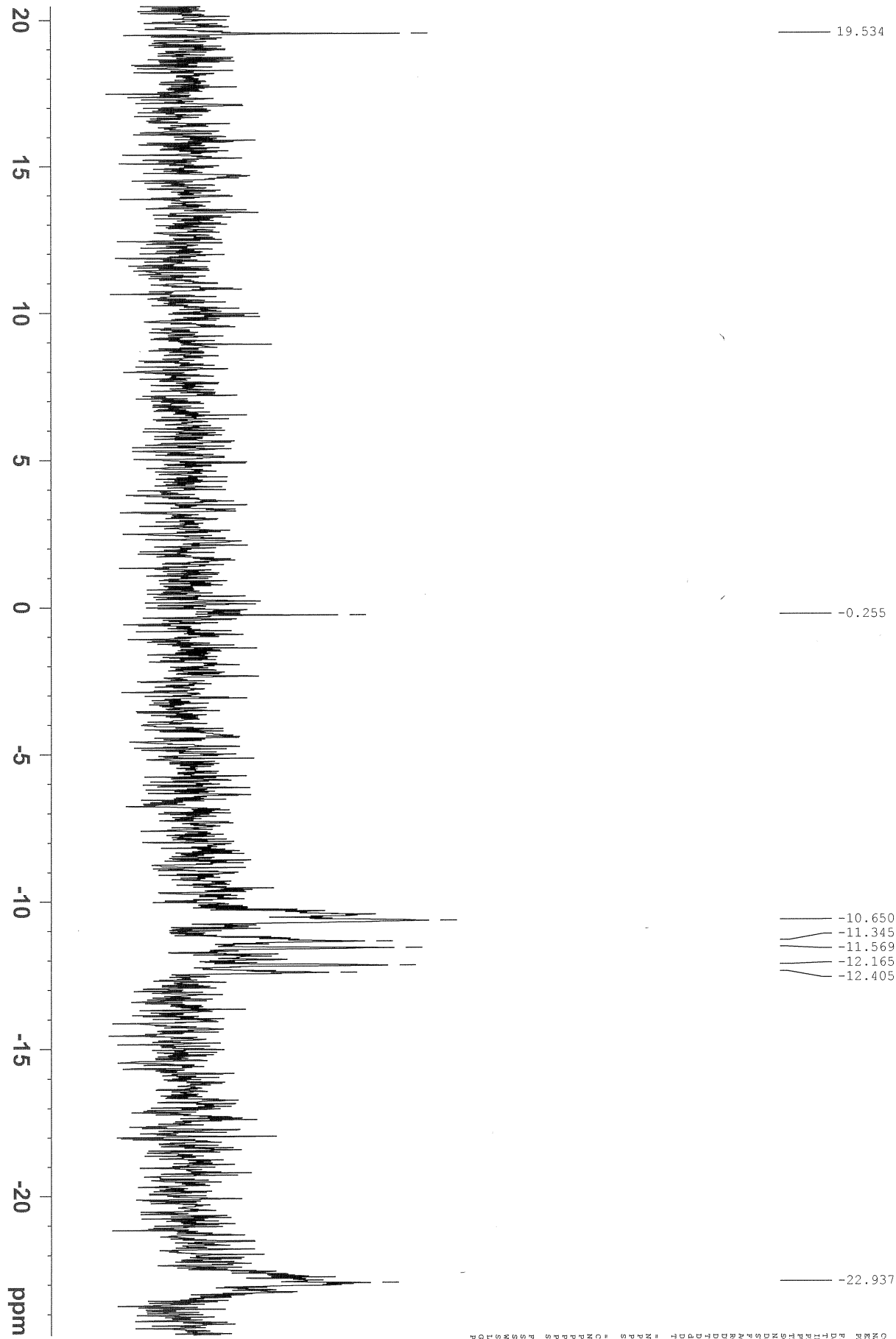


Poly(ethylene glycol)₄₀₀₀ Bis[4-*N*-(1-(5'-*O*-triphosphoryl-β-*D*-ribofuranosyl)-cytosyl) succinate], tributylammonium salt 6c

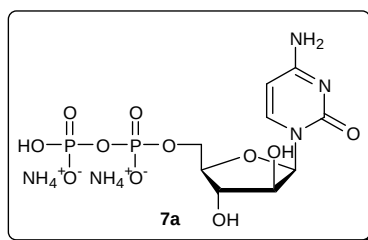


- 8.591
- 8.321
- 8.283
- 8.142
- 8.104
- 7.364
- 7.243
- 7.234
- 7.206
- 7.196
- 5.971
- 5.880
- 5.866
- 5.502
- 4.918
- 4.860
- 4.718
- 4.252
- 4.198
- 4.184
- 4.154
- 3.969
- 3.947
- 3.925
- 3.792
- 3.592
- 3.440
- 3.254
- 3.232
- 3.210
- 3.144
- 3.108
- 3.071
- 3.062
- 3.035
- 3.022
- 2.980
- 2.740
- 2.687
- 2.669
- 2.656
- 2.608
- 2.112
- 1.635
- 1.601
- 1.557
- 1.538
- 1.520
- 1.481
- 1.351
- 1.314
- 1.277
- 1.240
- 1.202
- 1.166
- 1.129
- 0.868
- 0.855
- 0.833
- 0.819
- 0.806
- 0.796
- 0.783

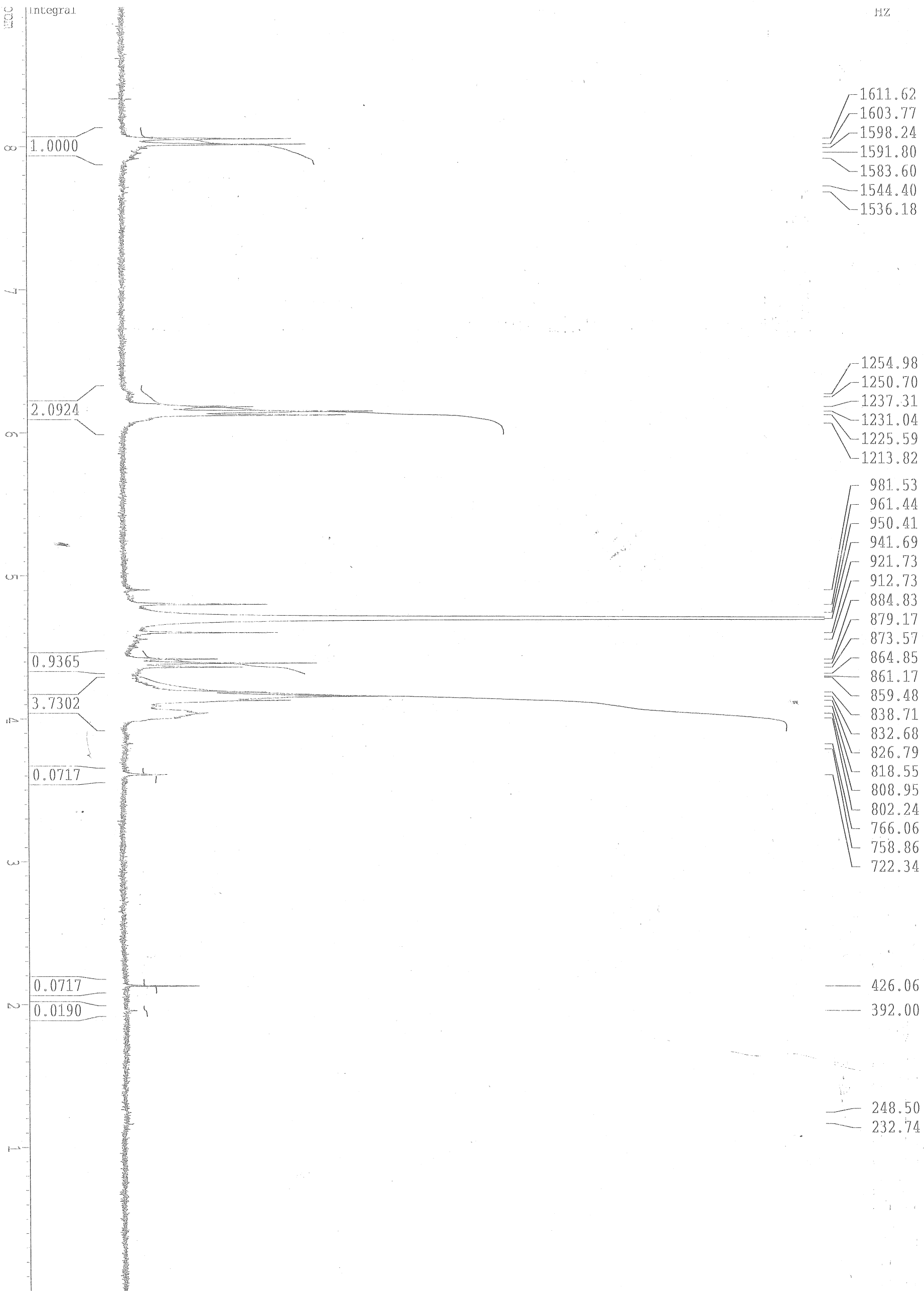
Current Data Parameters
 NAME 53-cp-05162007
 EXPNO 10
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20070516
 Time 14.08
 INSTRUM spect
 PROBHD 5 mm QNP 1H/29
 PULPROG zgpg30
 TD 65536
 SOLVENT D2O
 NS 64
 DS 2
 SWH 3221.649 Hz
 FIDRES 0.049158 Hz
 AQ 10.1712370 sec
 RG 322.5
 DW 155.200 usec
 DE 293.2
 TE 303.2 K
 D1 1.00000000 sec
 TDO 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 9.50 usec
 PL1 -6.00 dB
 SFO1 200.1313926 MHz
 F2 - Processing parameters
 SF 200.130000 MHz
 SI 32768
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 4.00



Current Data Parameters
NAME 53-cp-05162007
EXPNO 11
PROCNO 1
F2 - Acquisition Parameters
Date_ 20070516
Time 11:54:14
INSTRUM spect
PROBHD 5 mm QNP 1H/29
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 256
DS 4
SWH 30864.197 Hz
FIDRES 0.470950 Hz
AQ 1.061192 sec
RG 327.344
DM 16.200 usec
DE 10.00 usec
TE 300.2 K
D1 2.0000000 sec
d11 0.0300000 sec
DELTA 1.8999998 sec
TD0 1
===== CHANNEL f1 =====
NUC1 1H
P1 3.50 usec
PL1 -6.00 dB
SFO1 81.014190 MHz
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 13C
P2 100.00 usec
PL2 -6.00 dB
PL12 19.00 dB
PL13 19.00 dB
SFO2 200.130800 MHz
F7 - Processing parameters
SI 32768
SF 81.0141090 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



1-(β-D-arabinofuranosyl)-cytosine-5'-diphosphate, ammonium salt 7a

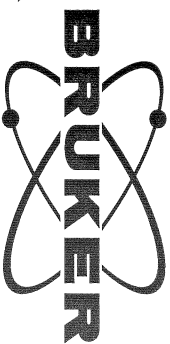


Current Data Parameters
NAME cc1174c1f1f2
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 500000
Time 13.40
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zg
TD 32768
SOLVENT D2O
NS 32
DS 0
SWH 3041.363 Hz
FIDRES 0.092815 Hz
AQ 5.3871093 sec
RG 1149.4
DW 164.400 usec
DE 71.54 usec
TE 300.0 K
D1 3.0000000 sec
P1 9.50 usec
DE 71.54 usec
SF01 200.126400 MHz
NUC1 1H
PL1 -6.00 dB

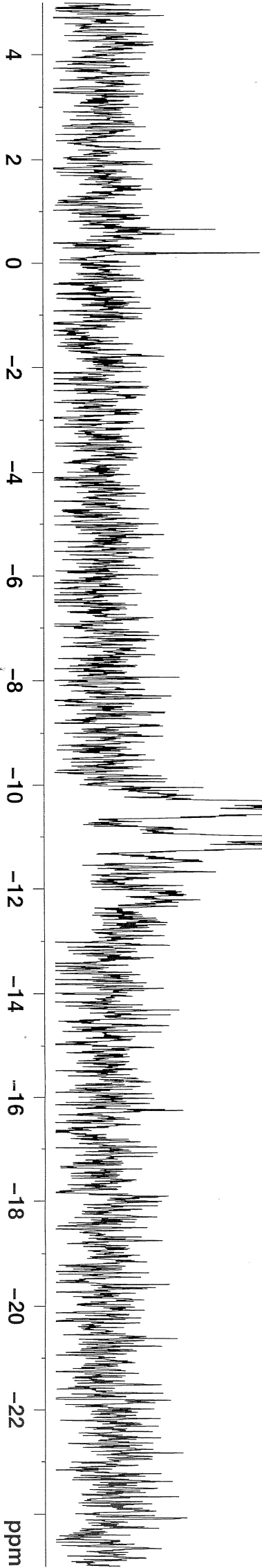
F2 - Processing parameters
SI 16384
SF 200.125000 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 34.00 cm
FLP 9.000 ppm
F1 1801.12 Hz
F2 0.000 ppm
F2 0.00 Hz
PC 0.26473 ppm/cm
F2 52.97926 Hz/cm



0.20

-10.34
-10.51
-11.02
-11.19



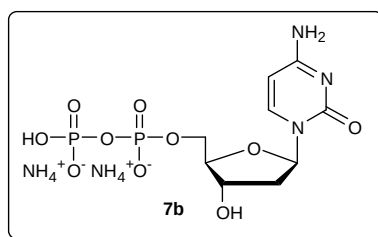
Current Data Parameters
NAME Sep27-2006
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters
Date_ 20060927
Time 10.25
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 64
DS 4
SWH 46296.297 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 7298.2
DW 10.800 usec
DE 8.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

===== CHANNEL f1 =====
NUC1 31P
P1 6.75 usec
PL1 6.00 dB
SFO1 121.4960509 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 65536
SF 121.4948360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



1-(2'-deoxy-β-D-ribofuranosyl)-cytosine-5'-diphosphate, ammonium salt 7b

PROCOLIFEN

8.090
8.064

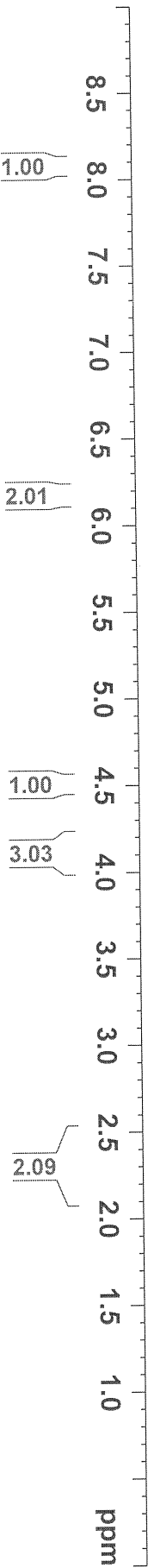
6.211
6.189
6.179
6.167
6.153

4.769
4.702
4.636
4.537
4.525
4.516
4.506
4.495
4.158
4.149
4.142
4.132
4.107
4.092
4.083
4.074
4.064

2.373
2.360
2.352
2.340
2.309
2.288
2.266
2.241
1.963

1.179
1.171

0.821

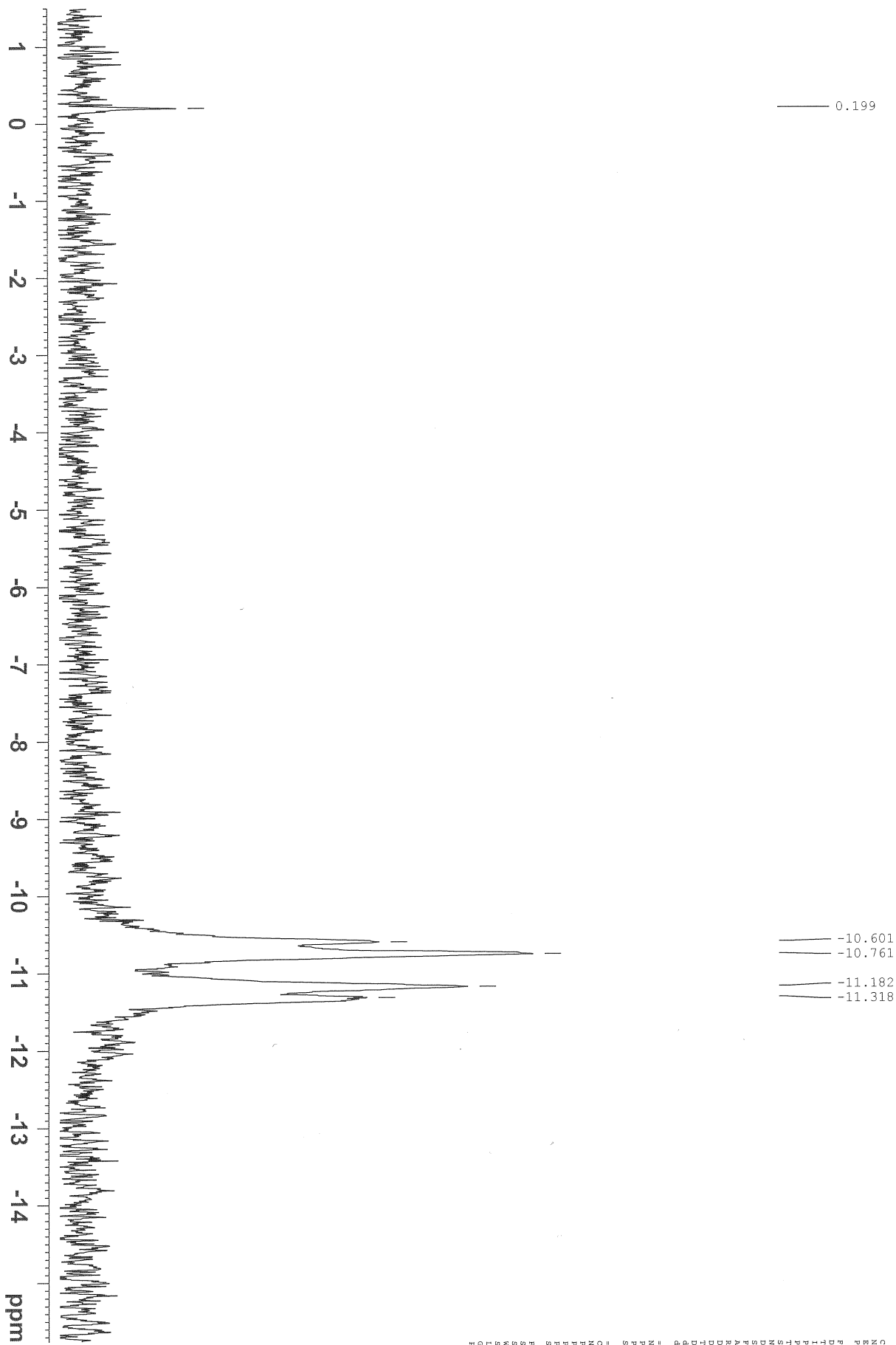


Current Data Parameters
NAME 33-cp-04162007
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070417
Time 1.51
spect
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 32768
SOLVENT DMSO
NS 2
DS 2
SWH 4844.961 Hz
FIDRES 0.147856 Hz
AQ 3.3817077 sec
RG 512
DM 103.200 usec
DE 8.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 6.50 usec
PL1 -3.00 dB
SFO1 300.132260 MHz

F2 - Processing parameters
SI 32768
SF 300.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



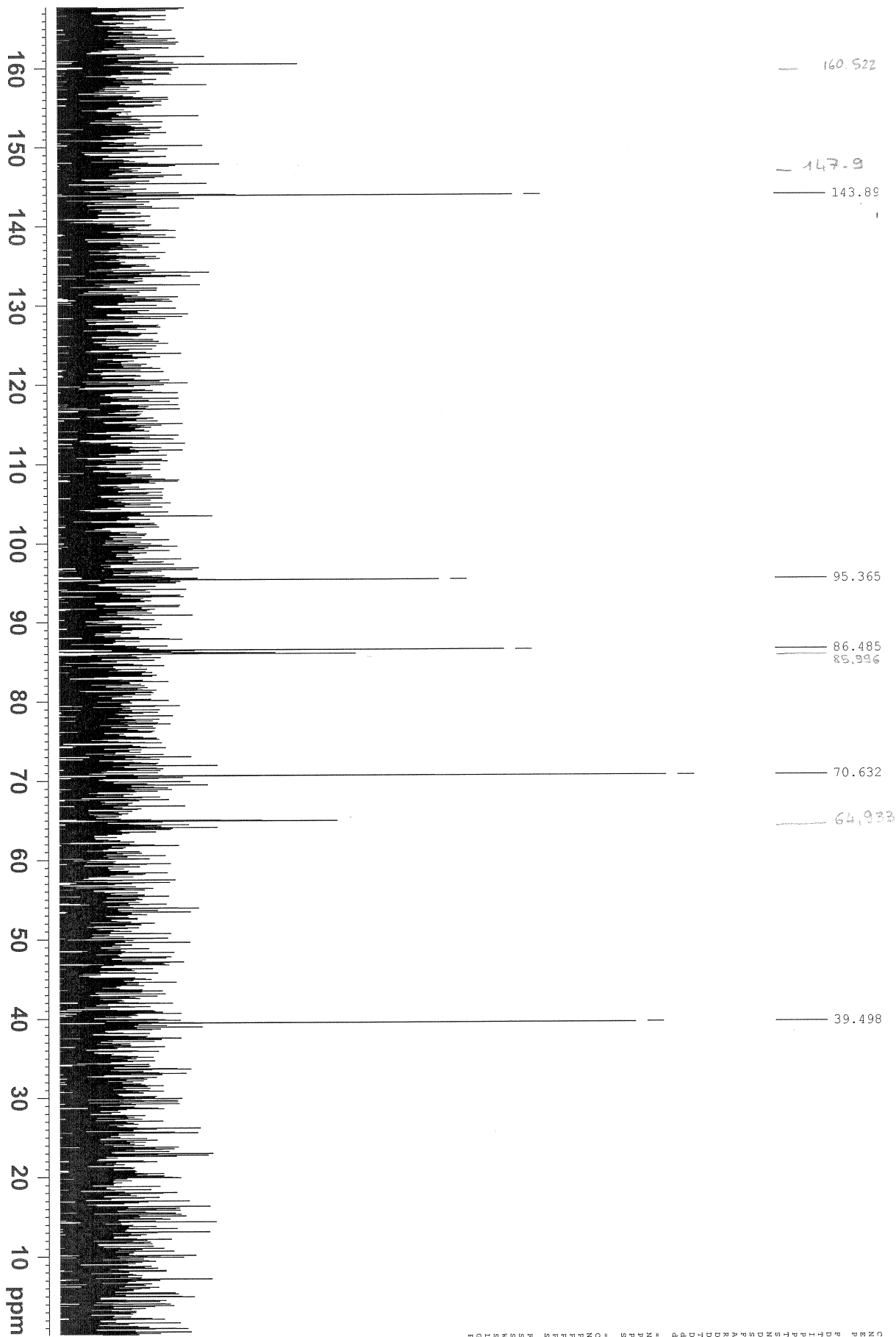
Current Data Parameters
NAME 33-cp-04162007
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070417
Time 10.10
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
PCPDPR 13
SOLVENT D2O
NS 128
DS 4
SWH 45236.294 Hz
FIDRES 0.353213 Hz
AQ 1.415276 sec
RG 327.5
DE 15806
TE 300.0 K
D1 2.6000000 sec
d12 0.0000000 sec
d13 0.0000000 sec

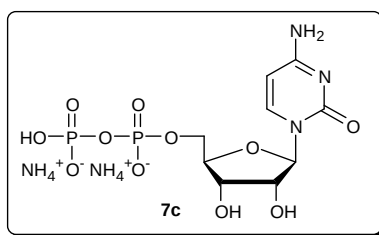
===== CHANNEL f1 =====
NUC1 13P
P1 6.75 usec
PL1 0.00 dB
SFO1 121.496099 MHz

===== CHANNEL f2 =====
PULPROG zgpg30
PCPDPR 13
SFO2 300.1312005 MHz
NUC2 1H
P2 100.00 usec
PL2 0.00 dB
PL3 23.00 dB
SFO2 300.1312005 MHz

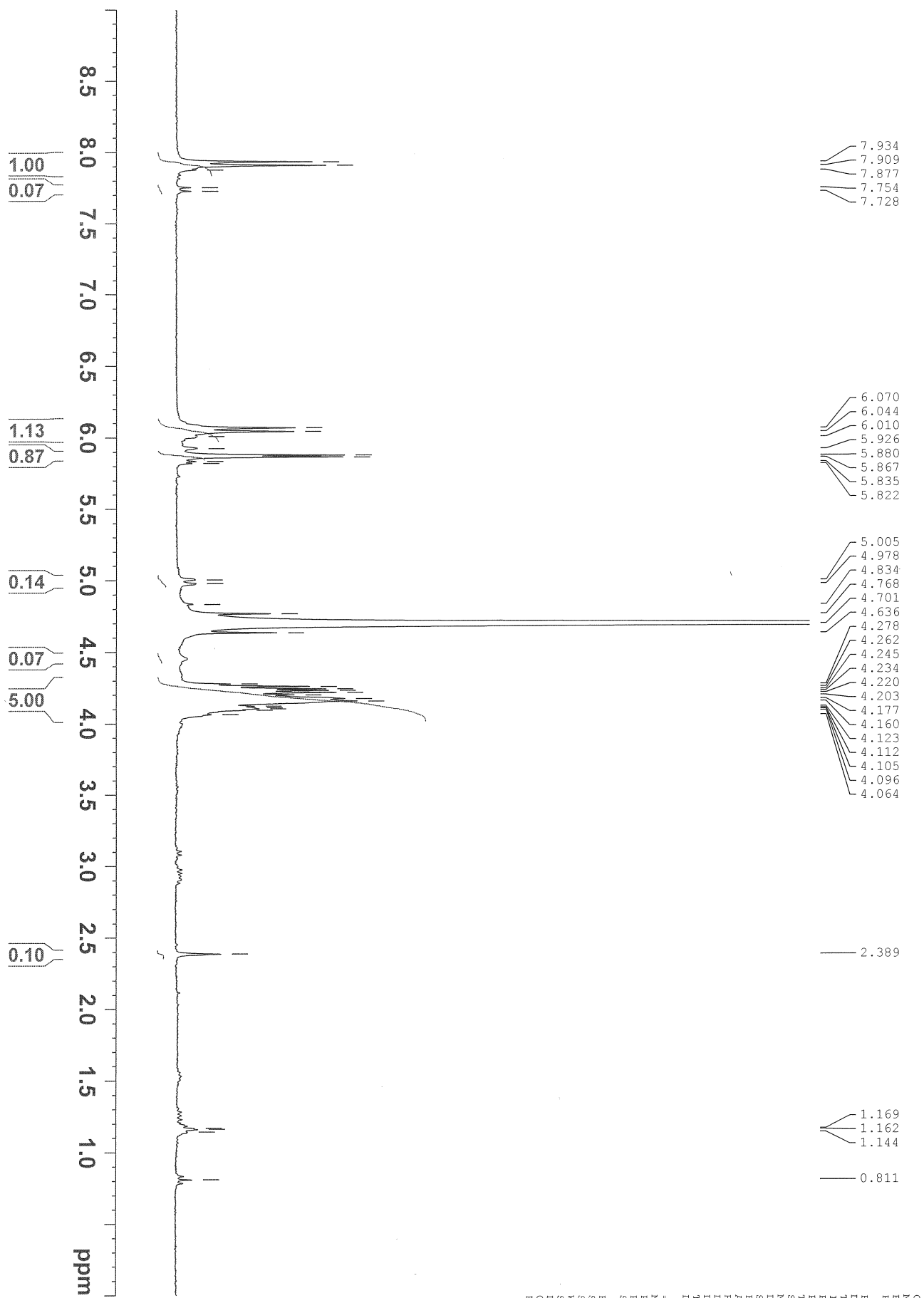
F2 - Processing parameters
SI 65536
SF 121.4946360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Current Data Parameters
NAME 33-cp-04162097
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20070509
Time 5.09
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 4000
DS 4
SWH 17985.611 Hz
FIDRES 0.274439 Hz
AQ 1.624439 sec
RG 1.6255
RW 27.800 usec
DE 3.000 usec
TE 300.2 K
D1 1.00000000 sec
d11 0.03000000 sec
d12 0.00020000 sec
===== CHANNEL f1 =====
NUC1 13C 101.626 MHz
P1 12.00 usec
PL1 -1.00 dB
SFO1 75.4752953 MHz
===== CHANNEL f2 =====
CDDPROG2 waltz16
NUC2 1H 100.626 MHz
PCPD2 10.00 usec
PL2 0.00 dB
PL3 22.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz
F2 - Processing parameters
SI 32768
SF 75.467795 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



**1-(β-D-ribofuranosyl)-cytosine-5'-diphosphate,
ammonium salt 7c**

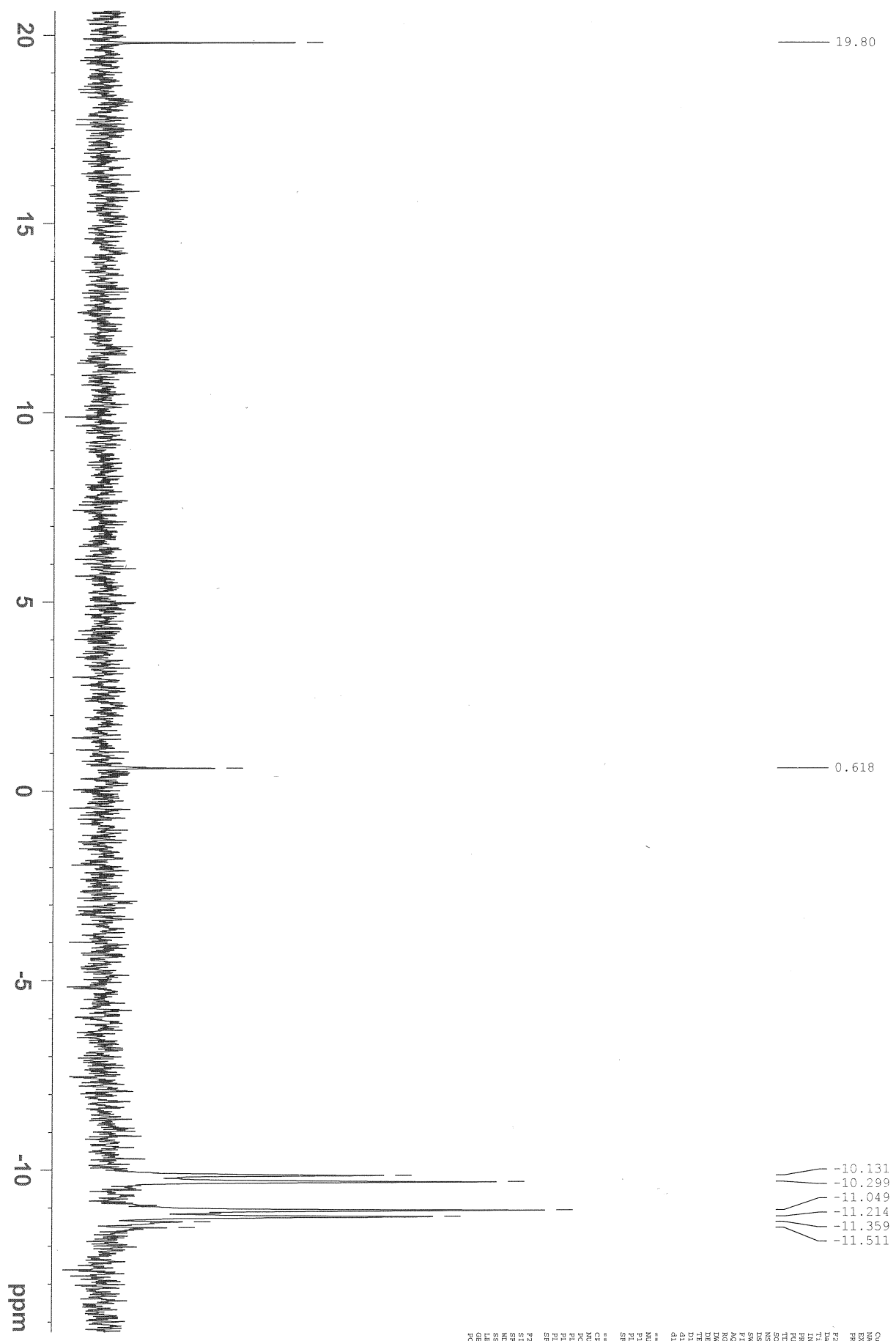


Current Data Parameters
 NAME 11-cp-05172007
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20070517
 Time 15.44
 INSTRUM spect
 PROBRD 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 32768
 SOLVENT DMSO
 NS 32
 DS 2
 SWH 4844.961 Hz
 FIDRES 0.147856 Hz
 AQ 3.3817077 sec
 RG 456.1
 DW 103.200 usec
 DE 8.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 6.50 usec
 PL1 -3.00 dB
 SFO1 300.1322660 MHz

F2 - Processing parameters
 SI 32768
 SF 300.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



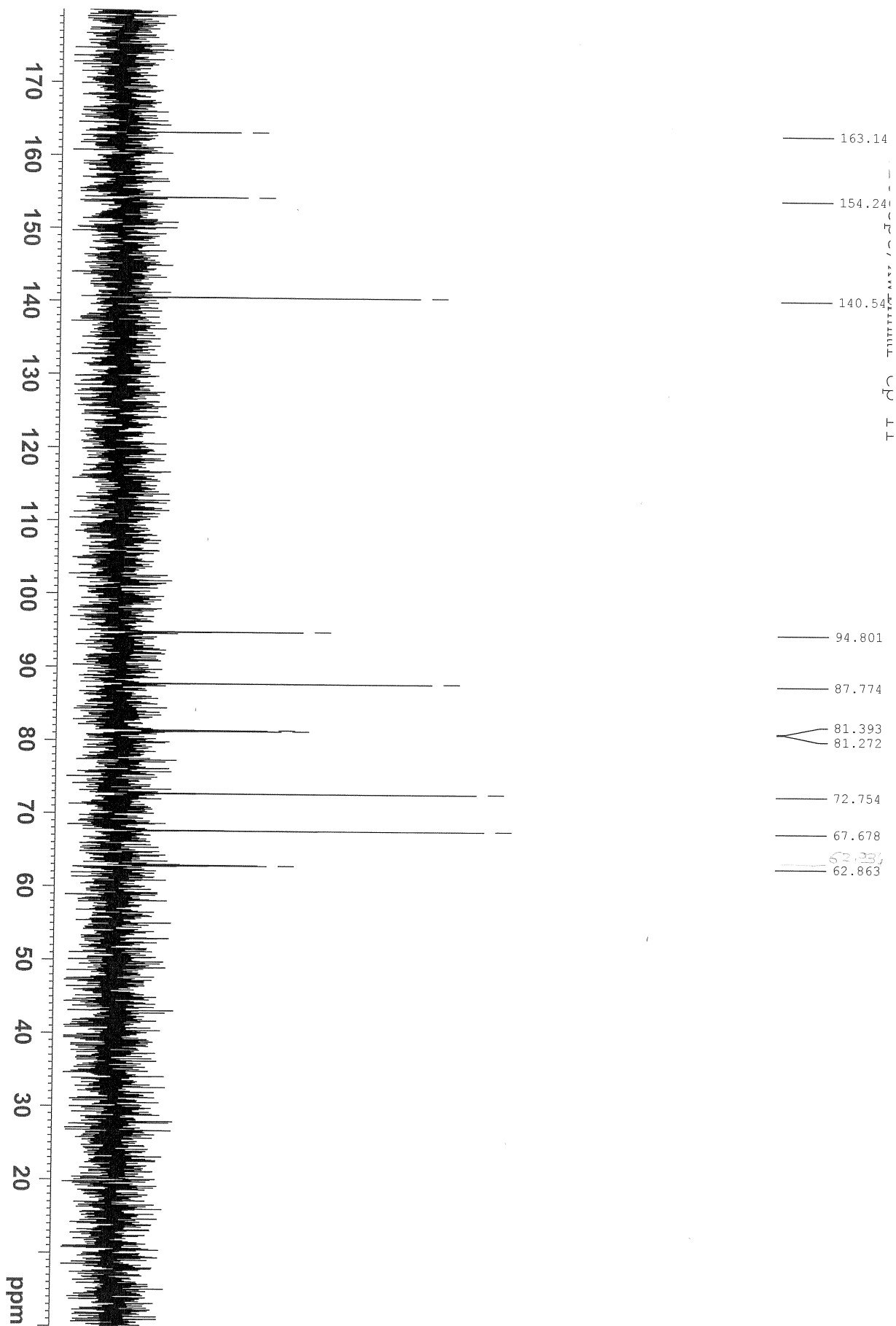
Current Data Parameters
 NAME 14-SP-05012002
 EXPRNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20070504
 Time 9:31
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 PULPROG zgpg30
 FIDRES 1.1102
 SOLVENT cdcl3
 NS 128
 DS 4
 SWH 46396.343 Hz
 FIDRES 0.153213 Hz
 AQ 1.4166276 sec
 RG 11585.2
 DB 1.0000000 sec
 DE 6.00 usec
 TE 300.0 K
 D1 2.0000000 sec
 d11 0.0500000 sec
 d12 0.0002000 sec

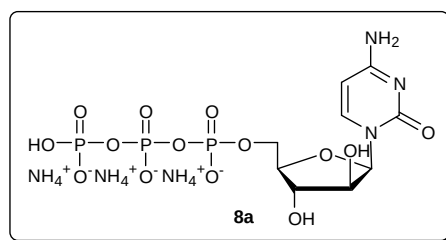
***** CHANNEL f1 *****
 NUC1 31P
 P1 6.75 usec
 PL1 6.00 dB
 SFO1 121.4960929 MHz

***** CHANNEL f2 *****
 CDPRG2 waltz16
 NUC2 13C
 P2 100.00 usec
 PL2 0.00 dB
 PL12 2.00 dB
 PL13 2.00 dB
 SFO2 300.1312005 MHz

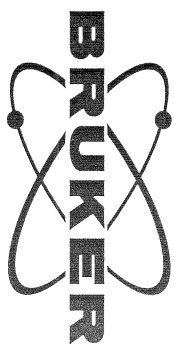
F2 - Processing Parameters
 SI 65536
 SF 121.4948360 MHz
 KW 64
 WDW EM
 SSF 1.00 Hz
 LB 0
 GB 0
 PC 1.40



Current Data Parameters
 NAME 11-cp-05172007
 EXPNO 11
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20070517
 Time 17:05:13
 INSTRUM spect
 PROBRD 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 7168
 DS 4
 SFR 17985.413 Hz
 FIDRES 0.274439 Hz
 AQ 1.8215598 sec
 RG 327.806
 IWD 127.806 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.60000000 sec
 d12 0.03000000 sec
 d13 0.00020000 sec
 ***** CHANNEL f1 *****
 NUC1 13C
 P1 6.70 usec
 PL1 0.00 dB
 SFO1 75.475253 MHz
 ***** CHANNEL f2 *****
 NUC2 1H
 P2 100.00 usec
 PL2 0.00 dB
 PL12 23.00 dB
 PL13 23.00 dB
 SFO2 300.131005 MHz
 F2 - Processing parameters
 SI 32768
 SF 75.4678598 MHz
 EQ
 SSF 0
 LB 1.00 Hz
 GB 0
 PC 1.40



1-(β-D-arabinofuranosyl)-cytosine-5'-triphosphate, ammonium salt 8a



Current Data Parameters
NAME Dec13-2006
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20061213
Time 14.20
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 32768
SOLVENT D2O
NS 32
DS 2
SWH 4844.961 Hz
FIDRES 0.147856 Hz
AQ 3.3817077 sec
RG 812.7
DW 103.200 usec
DE 8.00 usec
TE 300.0 K
D1 1.00000000 sec

==== CHANNEL f1 =====
NUC1 1H
P1 6.50 usec
PL1 -3.00 dB
SFO1 300.1322660 MHz

F2 - Processing parameters
SI 32768
SF 300.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

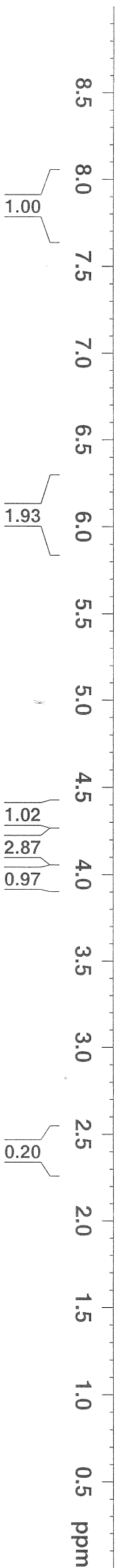
2369.29
2361.64
2354.23
2342.98
2335.33

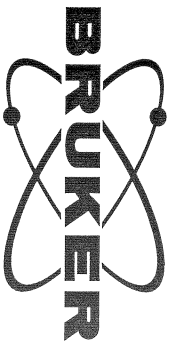
1880.33
1840.53
1835.15
1824.00
1816.44
1797.51
1790.15

1451.93
1411.21
1410.13
1389.93
1372.03
1364.47
1347.63
1331.23
1309.43
1304.05
1298.50
1253.35
1247.86
1242.49
1203.73

929.27
923.27

717.51
633.29
616.21
610.41
604.93
586.44
558.56
555.27
534.29
514.59
494.69
464.22
404.58
376.66
367.66
354.96
349.31





-10.21
-10.37
-10.53
-10.88
-11.00
-11.11
-11.27
-12.07
-12.21

-22.79
-22.94
-23.10

Current Data Parameters
NAME Sep27-2006
EXPNO 10
PROCNO 1

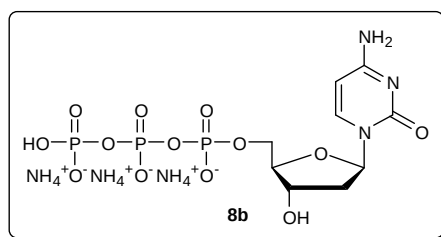
F2 - Acquisition Parameters
Date_ 20060927
Time 10.58
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 256
DS 4
SWH 46296.297 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 20642.5
DW 10.800 usec
DE 8.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

===== CHANNEL f1 =====
NUC1 31P
P1 6.75 usec
PL1 6.00 dB
SFO1 121.4960509 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

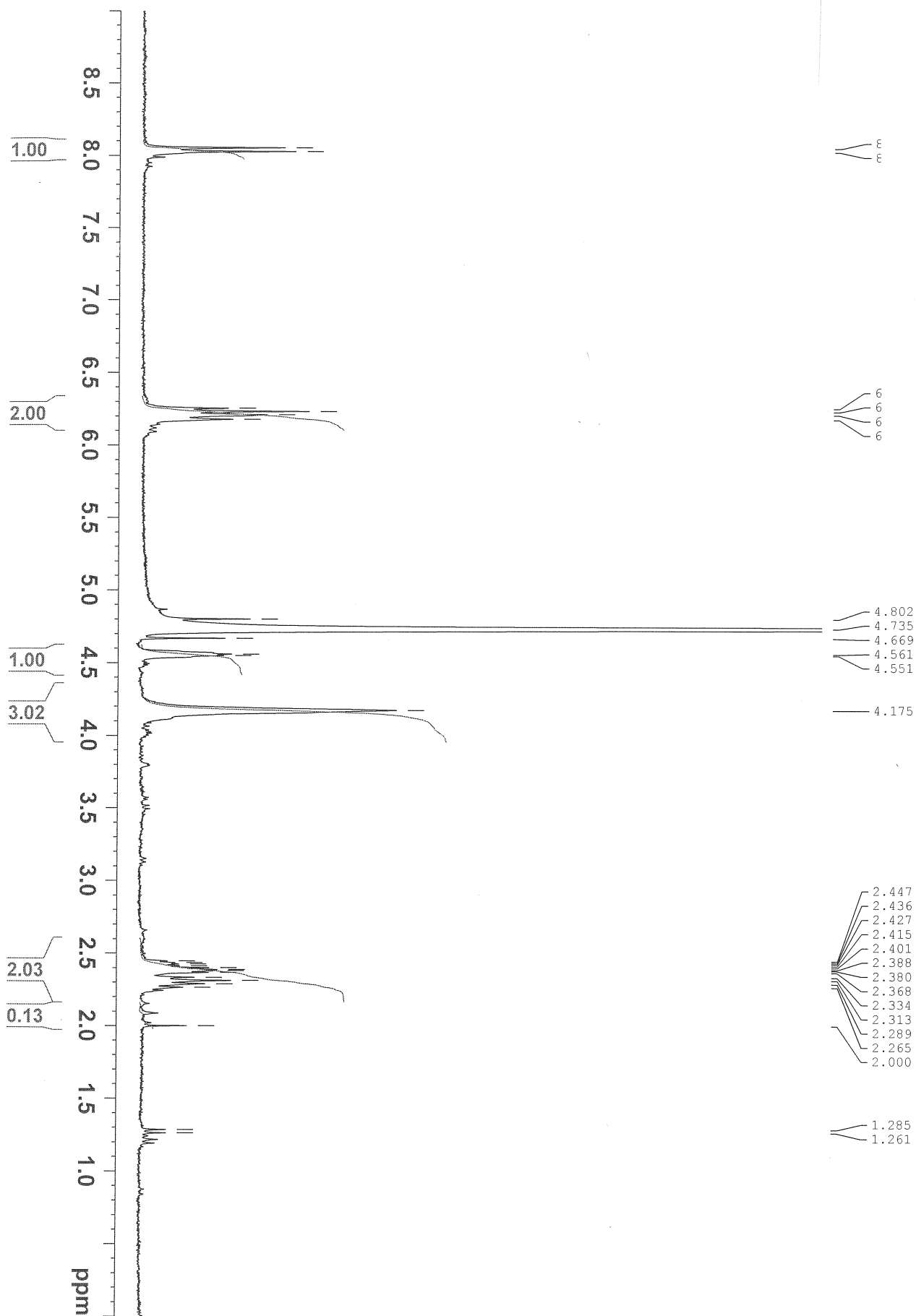
F2 - Processing parameters
SI 65536
SF 121.4948360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

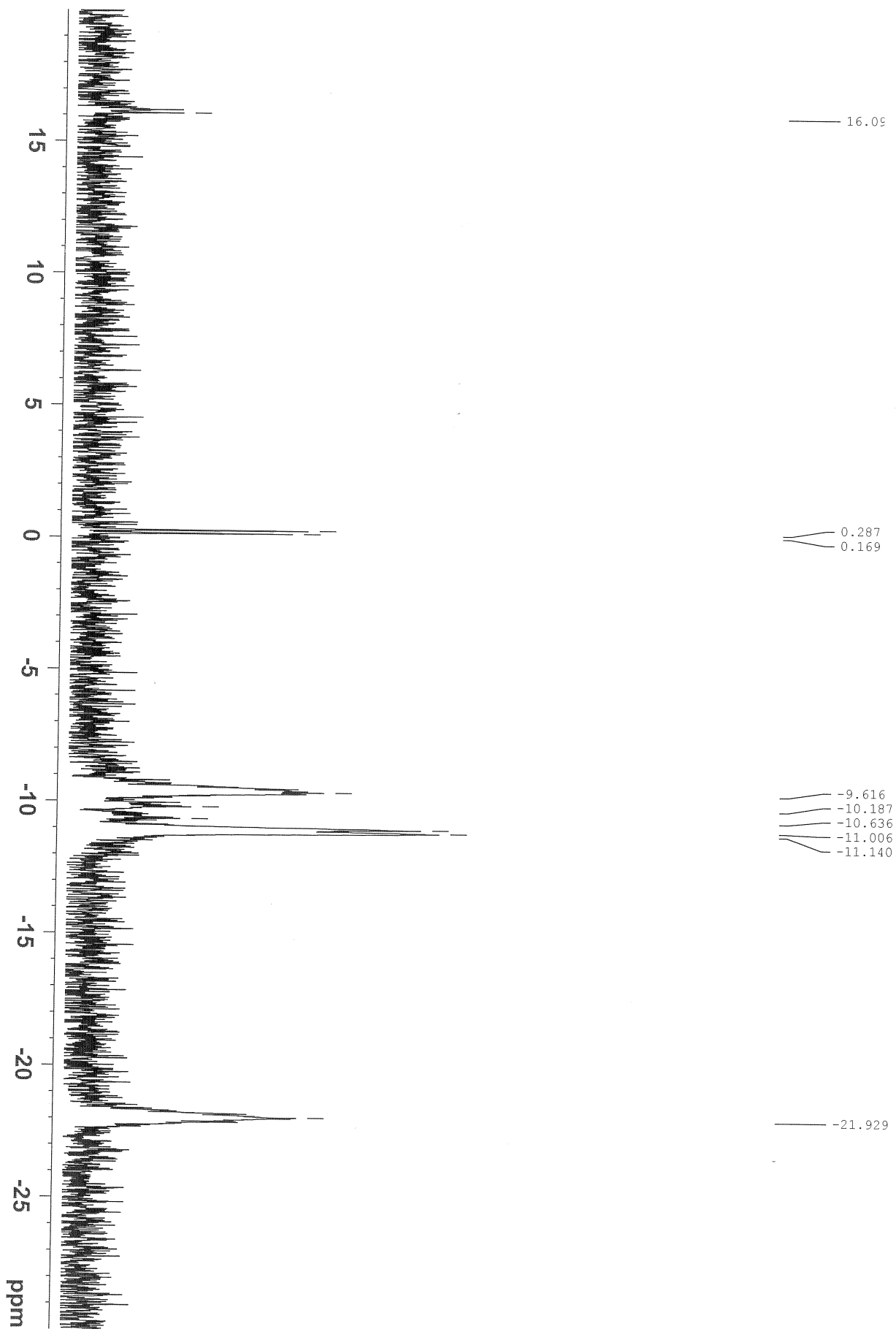




1-(2'-deoxy-β-D-ribofuranosyl)-cytosine-5'-triphosphate, ammonium salt 8b

Current Data Parameters
 NAME 32-cp-04162007
 EXPNO 10
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20070416
 Time 18.34
 INSTRUM spect
 PROBD 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 32768
 SOLVENT D2O
 NS 32
 DS 2
 SWH 4844.961 Hz
 FIDRES 0.147856 Hz
 AQ 3.3817077 sec
 RG 724.1
 DW 103.200 usec
 DE 8.00 usec
 TE 300.0 K
 D1 1.00000000 sec
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 6.50 usec
 PL1 -3.00 dB
 SF01 300.1322660 MHz
 F2 - Processing parameters
 SI 32768
 SF 300.1299902 MHz
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 1.00
 PC





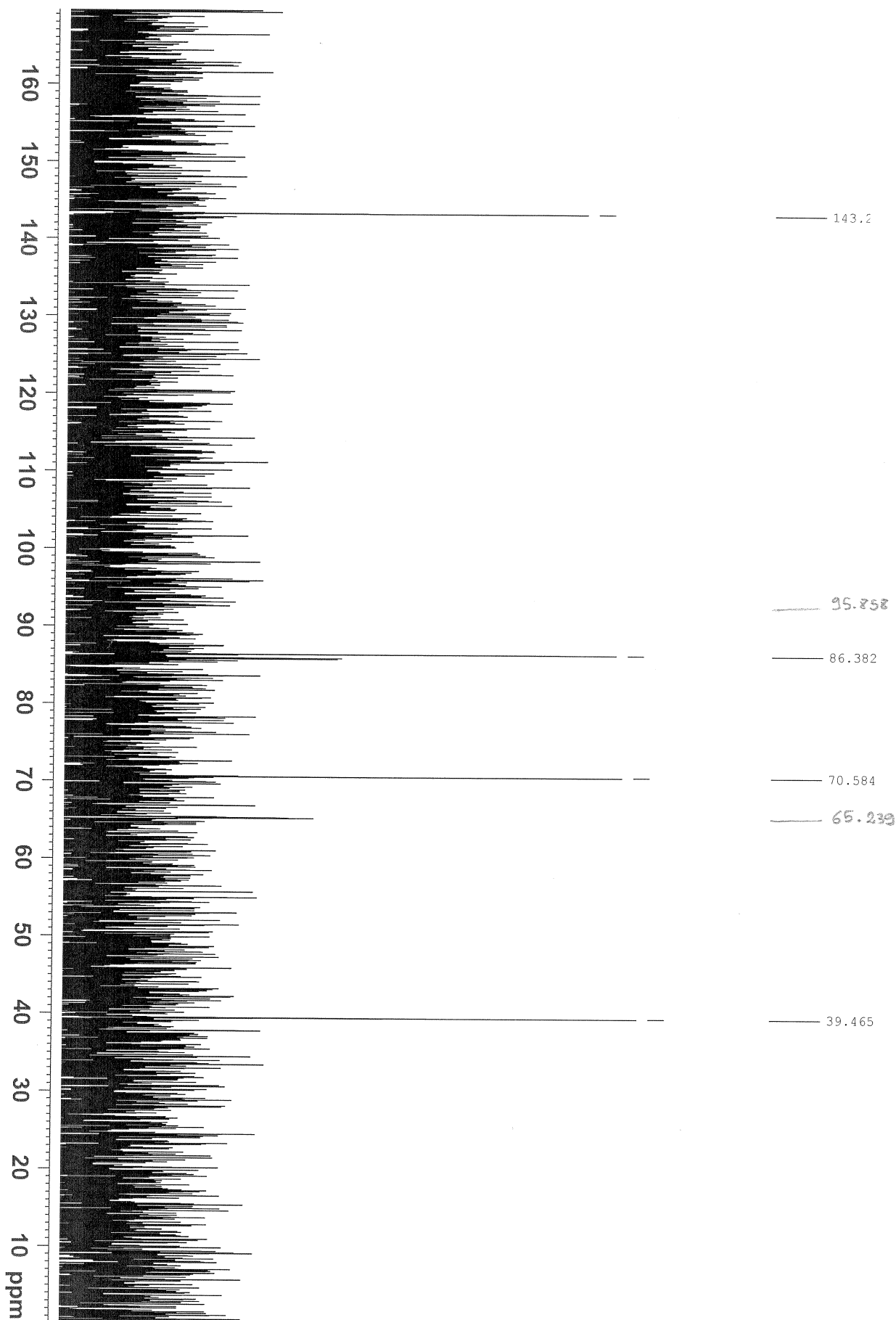
Current Data Parameters
NAME 31-cr-0465007
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070416
Time 18.43
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
SOLVENT 13CD2
NS 128
DS 4
SWH 4526.4 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 652
IN 10
DE 1.00 usec
TE 300.0 K
d11 0.0000000 sec
d12 0.0002000 sec

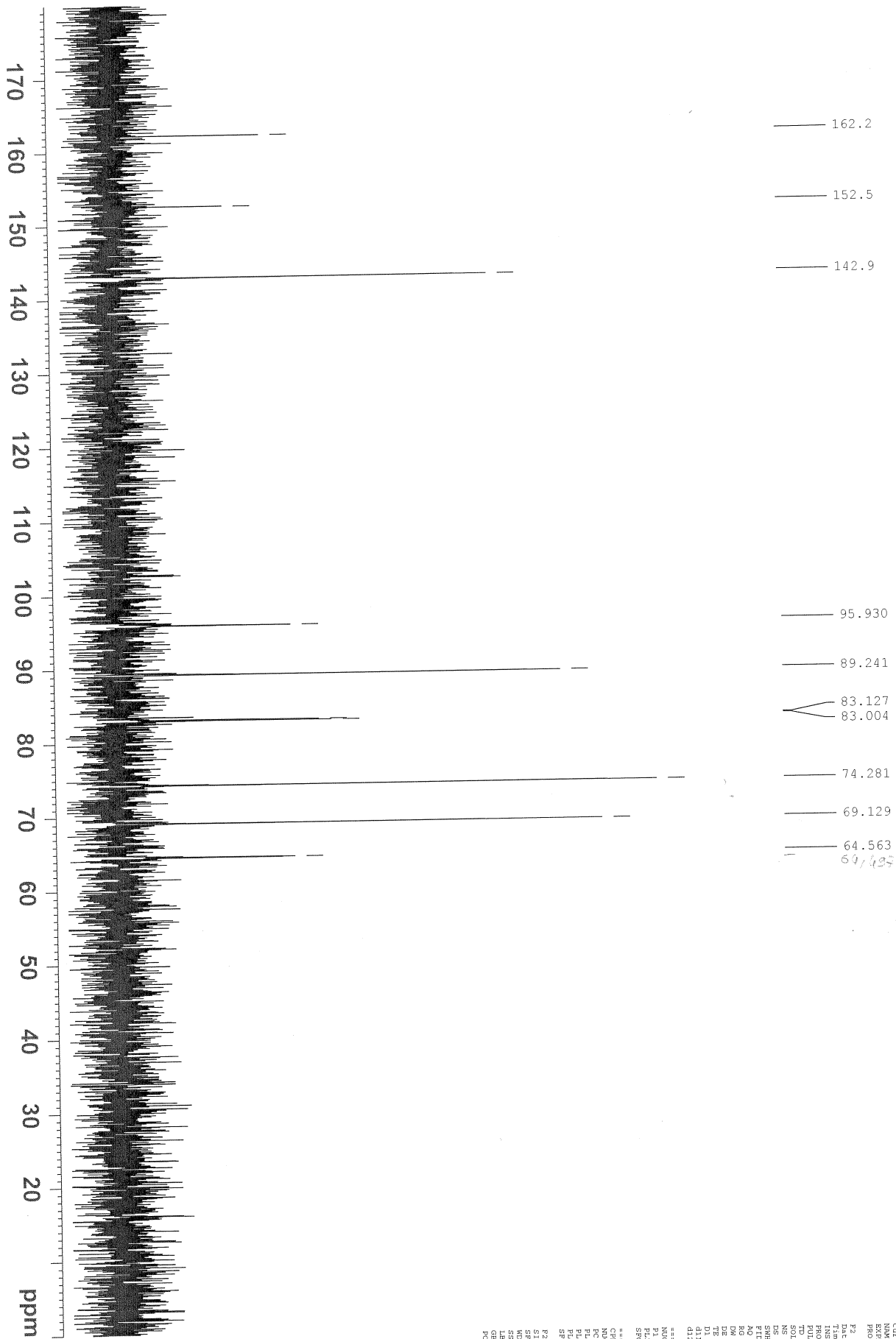
===== CHANNEL f1 =====
NUC1 31P
P1 6.75 usec
PL1 6.00 dB
SFO1 121.4860309 MHz

===== CHANNEL f2 =====
NUC2 13C
P2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

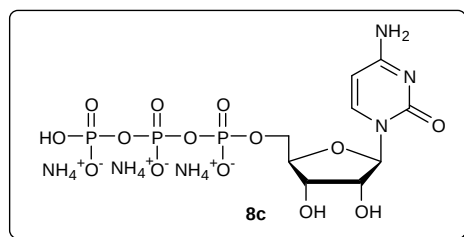
F3 - Processing parameters
SI 65536
SF 121.4948360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



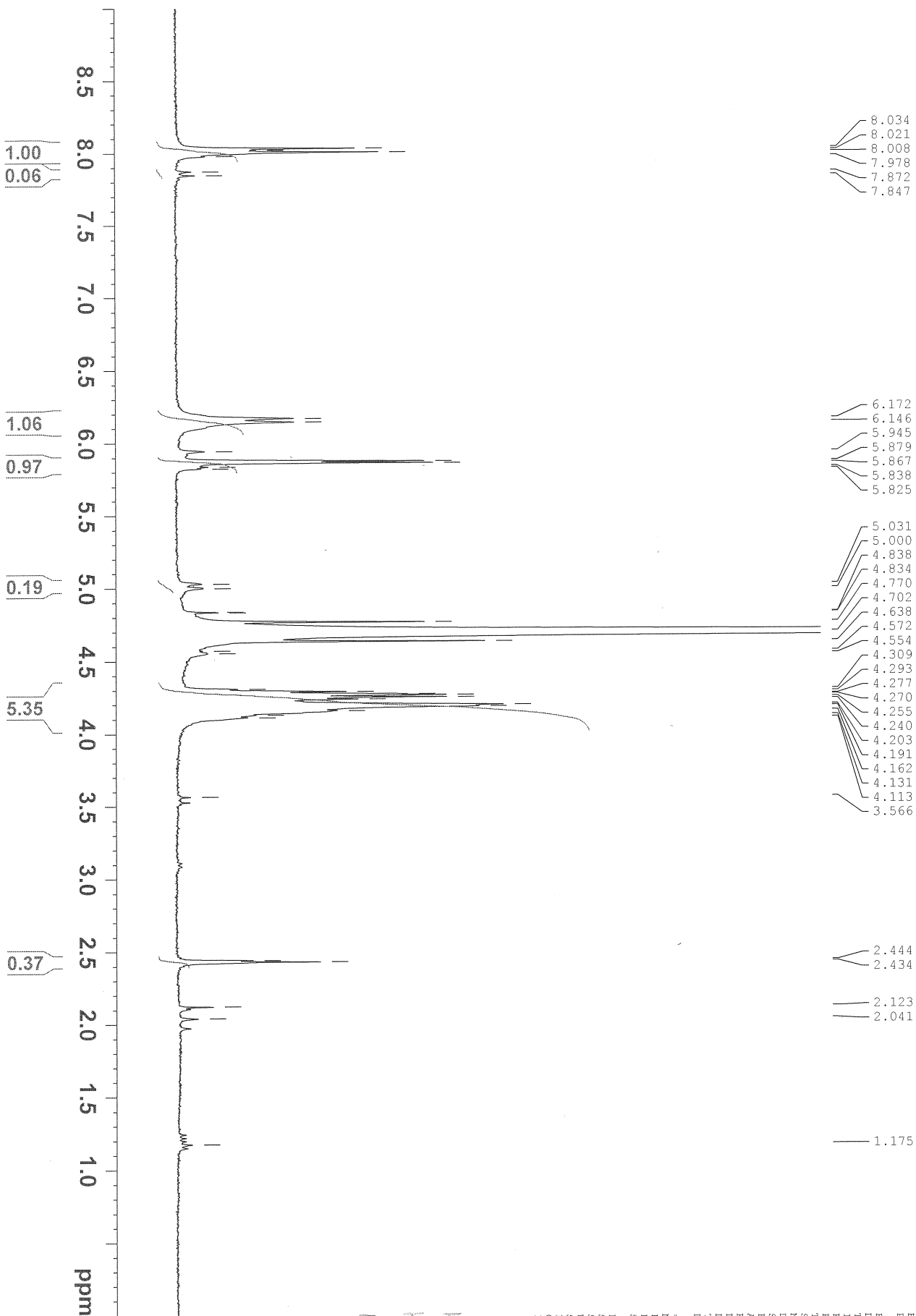
Current Data Parameters
 NAME 32-CP-0412007
 EXPNO 12
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20071112
 Time 21:52
 INSTRUM spect
 PROBHD 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 65536
 FIDRES 0.274439 Hz
 AQ 0.000000 sec
 RG 32768
 DW 27.600 usec
 DE 8.00 usec
 D1 1.0000000 sec
 d11 0.0300000 sec
 d12 0.0000100 sec
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 6.70 usec
 PL1 0.00 dB
 SFO1 75.4752953 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 P2 100.00 usec
 PL2 0.00 dB
 PL12 22.00 dB
 PL13 22.00 dB
 SFO2 300.1312005 MHz
 F2 - Processing parameters
 SI 32768
 SF 300.1312005 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Current Data Parameters
NAME 53-cp-0522007
EXPNO 12
PROCNO 1
PROCPS 1
F2 - Acquisition Parameters
Date_ 2009.03.06
Time 3.36
INSTRUM 5 mm QNP 1H/13
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 7168
DS 4
SWH 17985.611 Hz
FIDRES 0.214439 Hz
AQ 0.244439 sec
RG 1.2896.3
RW 27.800 usec
DE 8.00 usec
TE 300.2 K
D1 1.00000000 sec
d12 0.00000000 sec
d13 0.00000000 sec
===== CHANNEL f1 =====
NUC1 13C
P1 12.00 usec
PL1 -3.00 dB
SFO1 75.4752953 MHz
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz
F2 - Processing parameters
SI 32768
SF 75.4677450 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



1-(β-D-ribofuranosyl)-cytosine-5'-triphosphate, ammonium salt 8c



H₂H₃H₄H₅

H₄

H₅

H₆

```

Current Data Parameters
NAME      53-CP-05222007
EXPNO     10
PROCNO    1
F2 - Acquisition Parameters
Date_     20070222
Time      21.48
INSTRUM   spect
PROBHD    5 mm QNP 1H/13
PULPROG   zg30
TD         32768
SOLVENT   D2O
NS         32
DS         2
SWH        4844.961 Hz
FIDRES     0.147856 Hz
AQ         3.3817077 sec
RG         362
DM         103.200 usec
DE         300.000 K
TE         300.2
D1         1.00000000 sec
===== CHANNEL f1 =====
NUC1       1H
P1         6.50 usec
PL1        -3.00 dB
SFO1       300.1322660 MHz
F2 - Processing parameters
SI         32768
SF         300.1300000 MHz
WDW        EM
SSB        0
GB         0.30 Hz
PC         1.00
  
```



Current Data Parameters
NAME Dec04-2006
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20061204
Time 12.17
INSTRUM spect
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TD 131072
SOLVENT D2O
NS 64
DS 4
SWH 46296.297 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 20642.5
DW 10.800 usec
DE 8.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.0002000 sec

===== CHANNEL f1 =====
NUC1 31P
P1 6.75 usec
PL1 6.00 dB
SFO1 121.4960509 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 22.00 dB
PL13 22.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 65536
SF 121.4948360 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

