

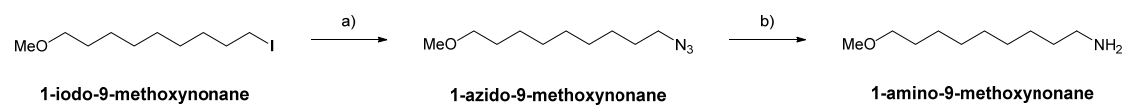
Exploiting angled thin film vortex microfluidics for expeditious syntheses of iminosugars

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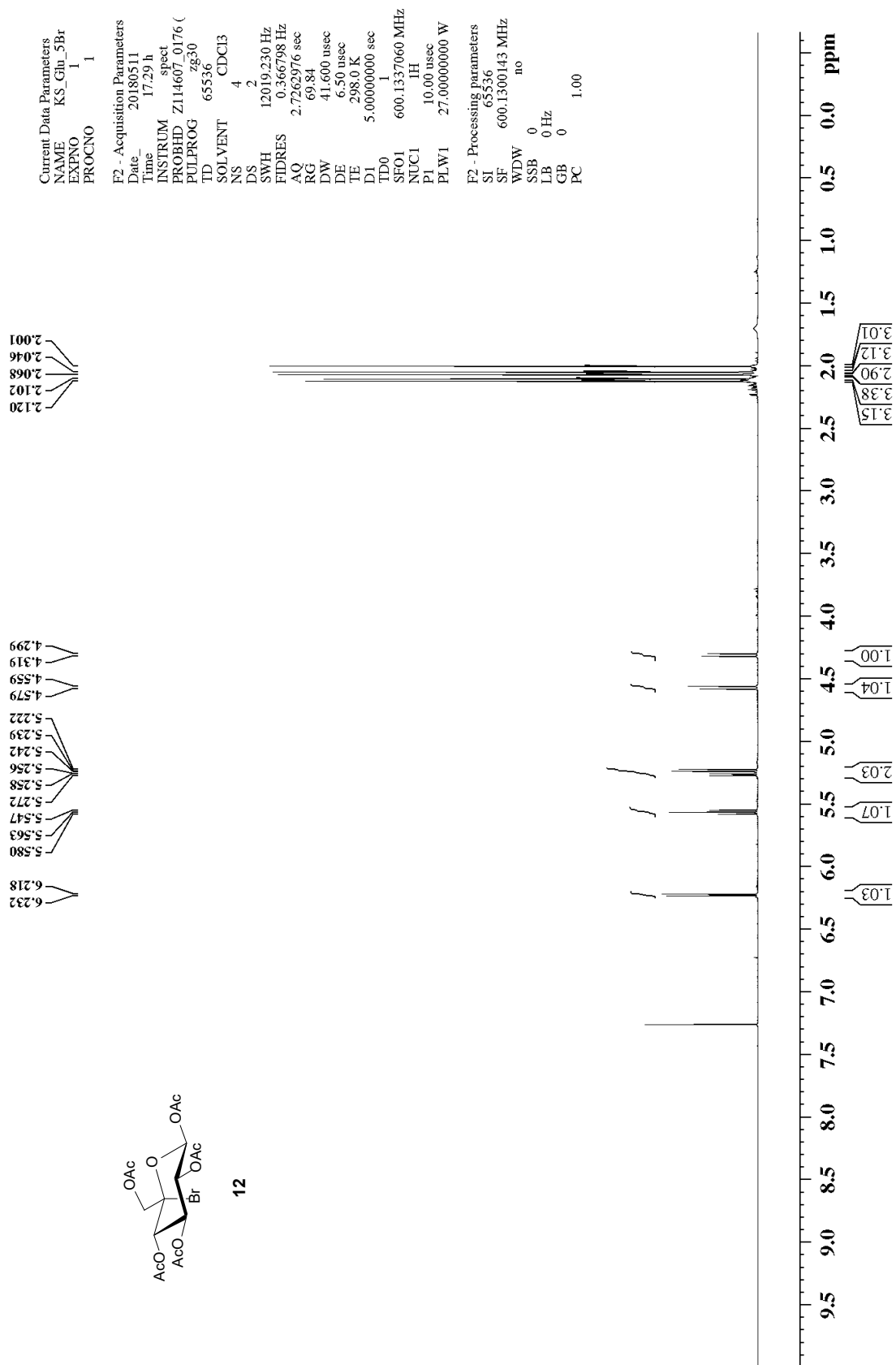
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*^bFlinders Institute for Nanoscale Science and Technology, College of Science and
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Australia.*

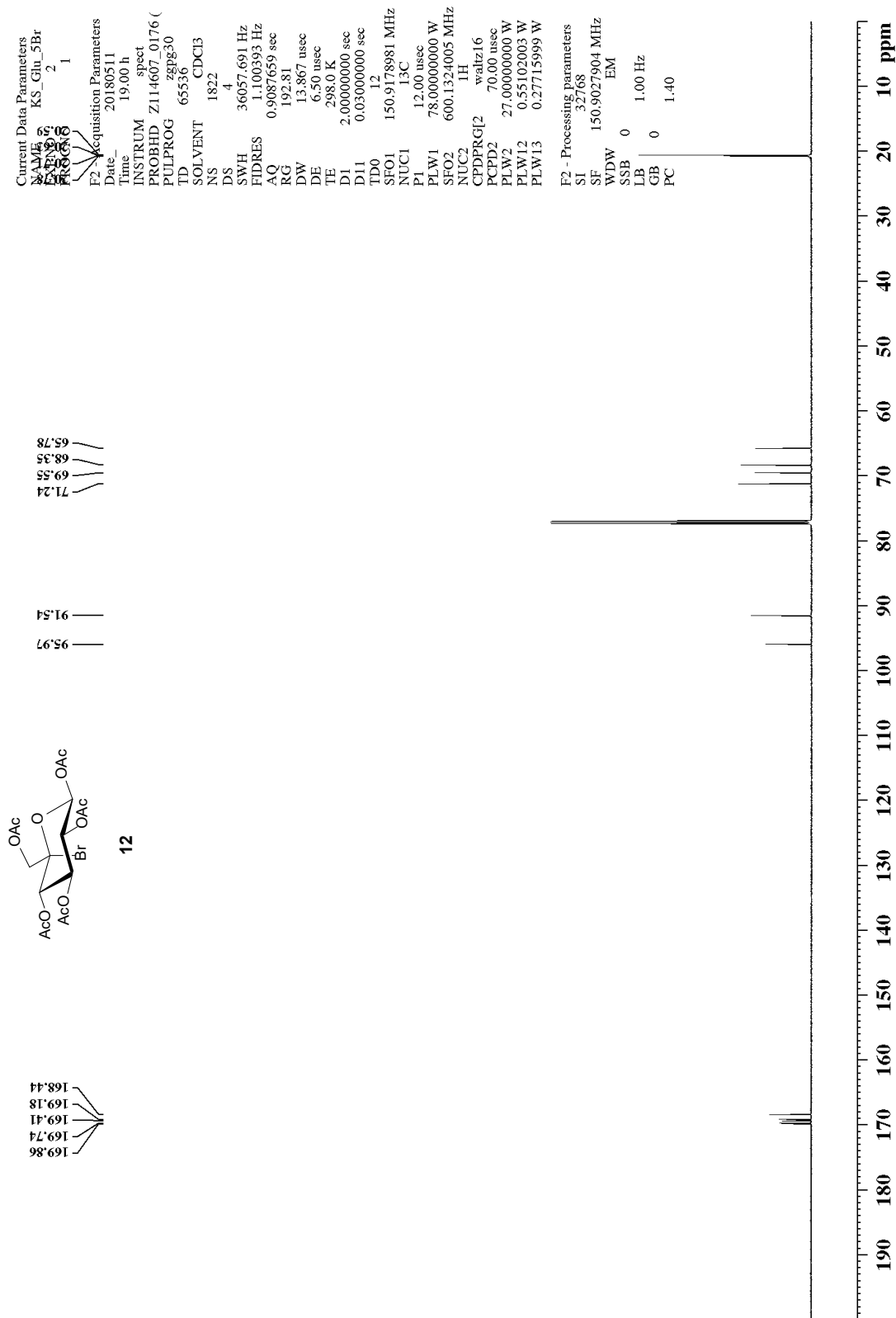


Supporting Scheme 1. a) NaN_3 , acetone: H_2O (3:1) (88%); b) $\text{Pd}(\text{OH})_2/\text{C}$, EtOH (92%).

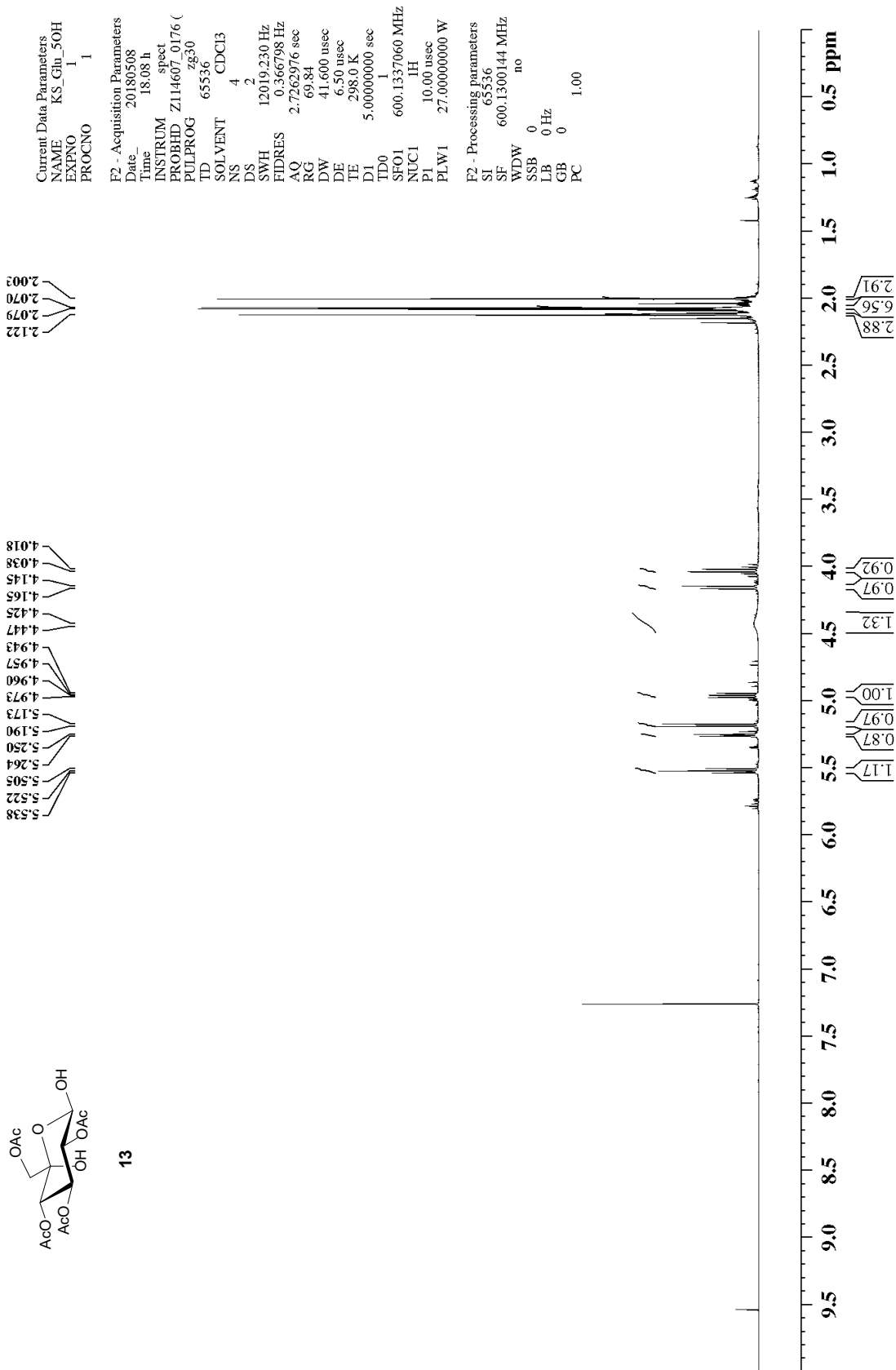
¹H NMR spectrum of Compound 12



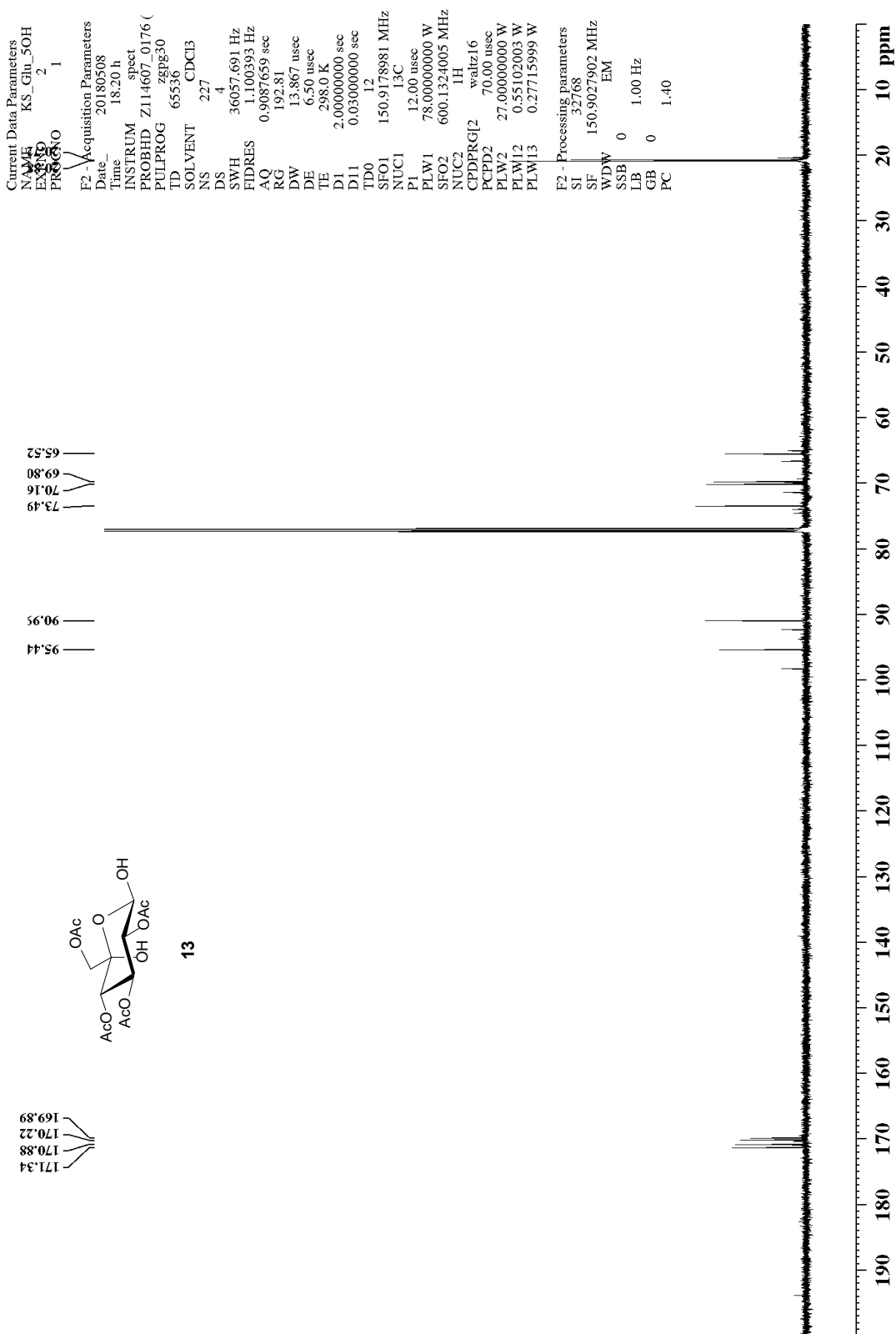
¹³C NMR spectrum of Compound 12



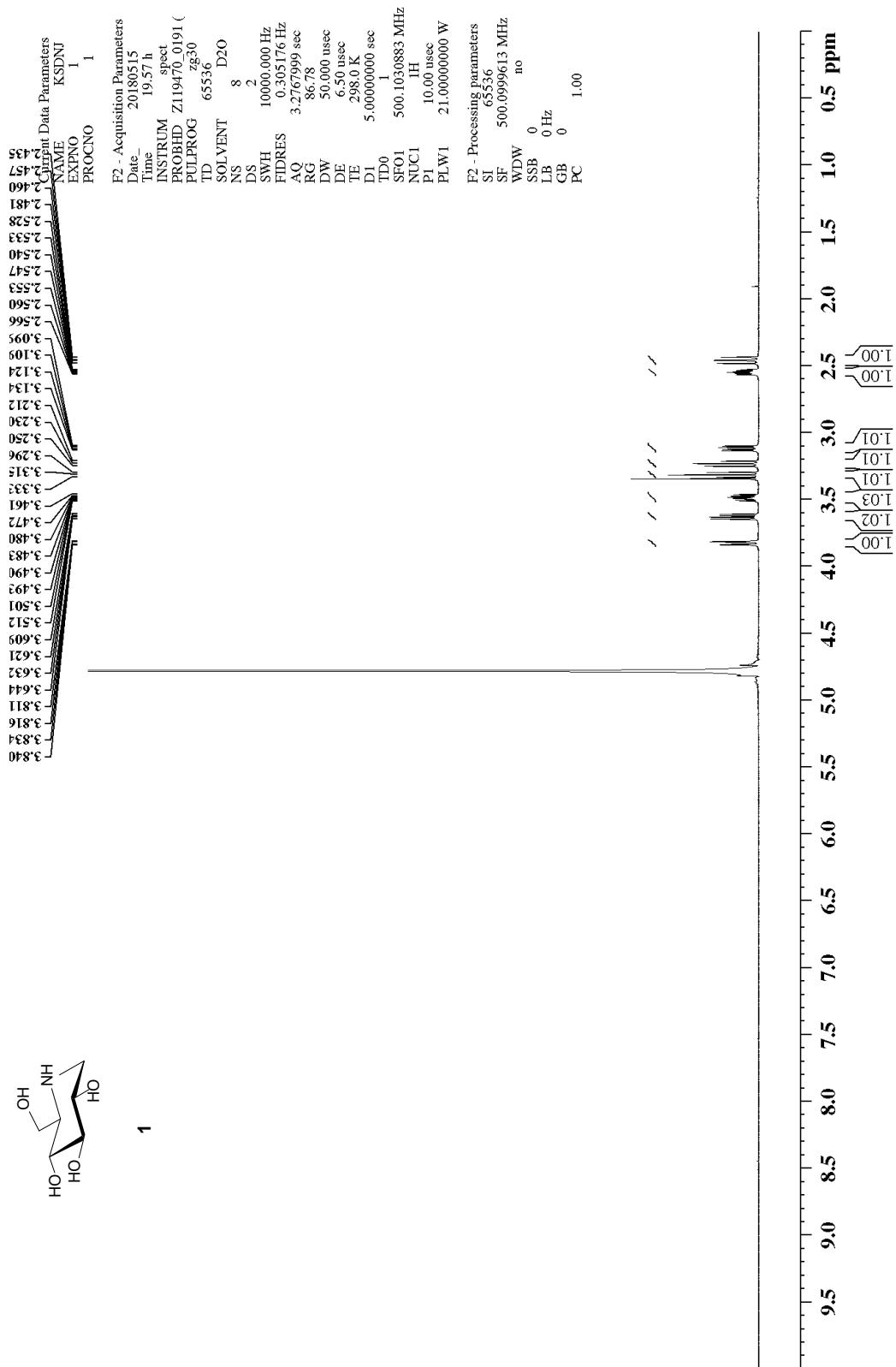
¹H NMR spectrum of Compound 13



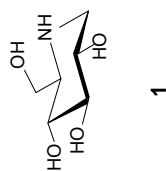
¹³C NMR spectrum of Compound 13



¹H NMR spectrum of Compound 1



¹³C NMR spectrum of Compound 1

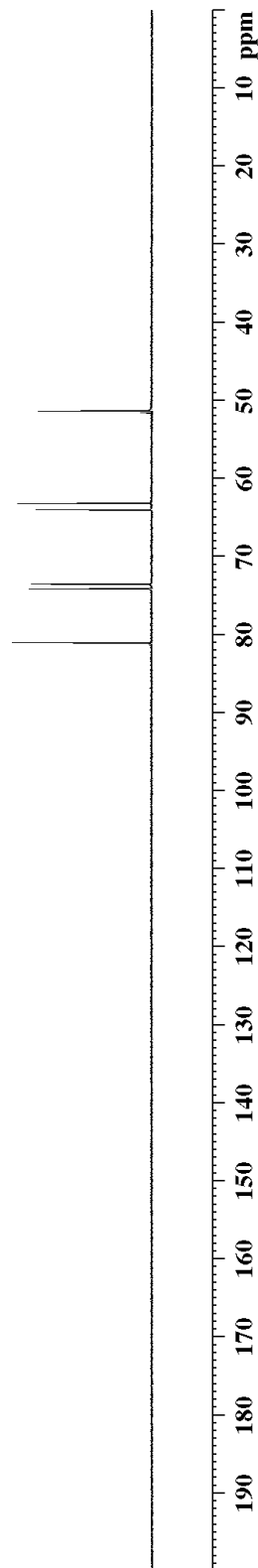


Current Data Parameters
NAME KSDNI
EXPNO 2
PROCNO 1

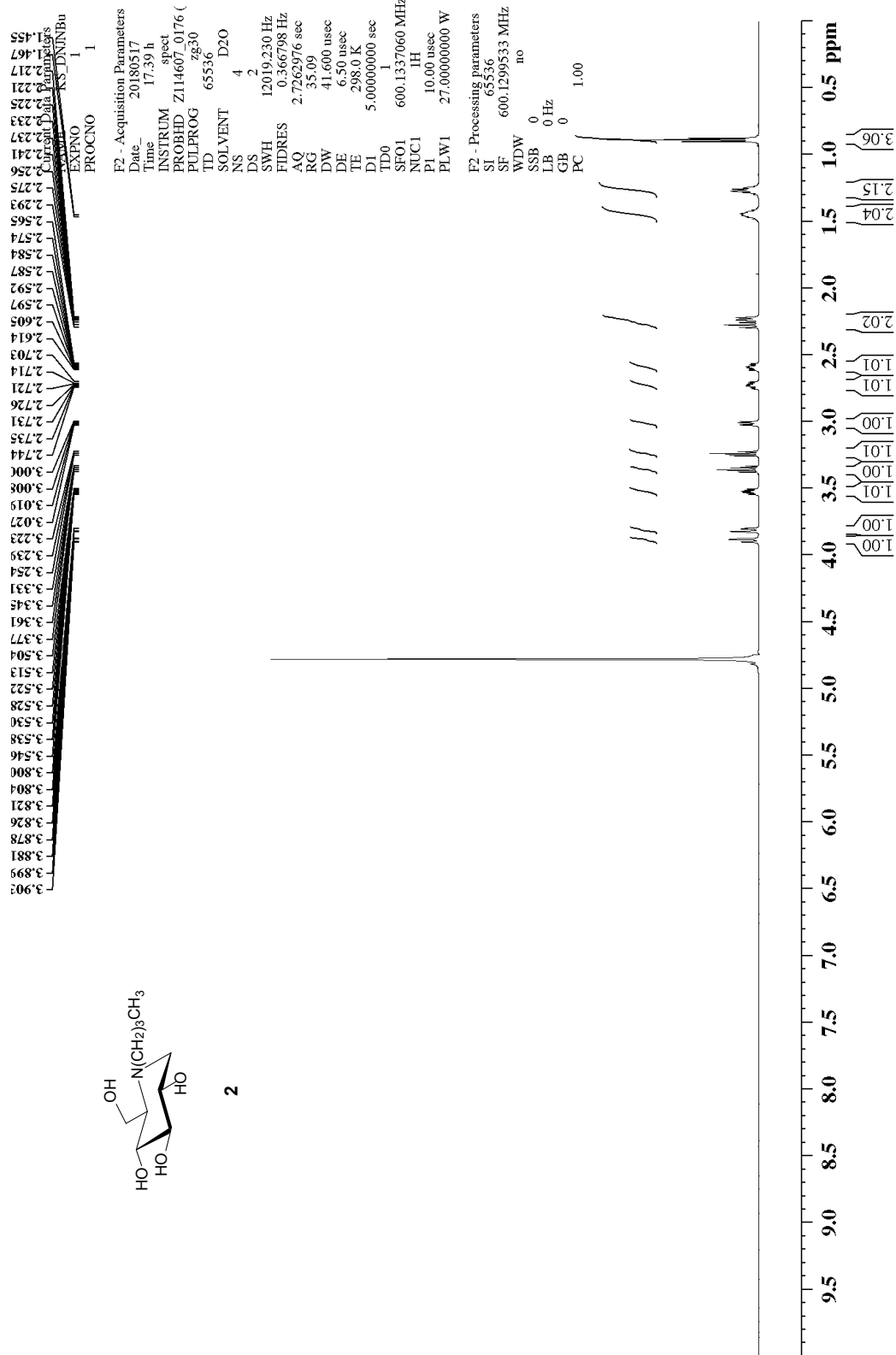
F2 - Acquisition Parameters
Date_ 20180516
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PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 7200
DS 4
SWH 31250.000 Hz
FIDRES 0.953674 Hz
AQ 1.0485760 sec
RG 188.97
DW 16.000 usec
DE 8.87 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.033000000 sec
TD0 6
SFO1 125.7621889 MHz
NUC1 ¹³C
PI 10.00 usec
PLW1 88.00000000 W
SFO2 500.1025005 MHz
NUC2 ¹H
CPDPRG2 waltz16
PCPD2 80.00 usec
PLW2 21.00000000 W
PLW12 0.32813001 W
PLW13 0.16504000 W

F2 - Processing parameters
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SF 125.7498925 MHz
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SSB 0
LB 1.00 Hz
GB 0
PC 1.40

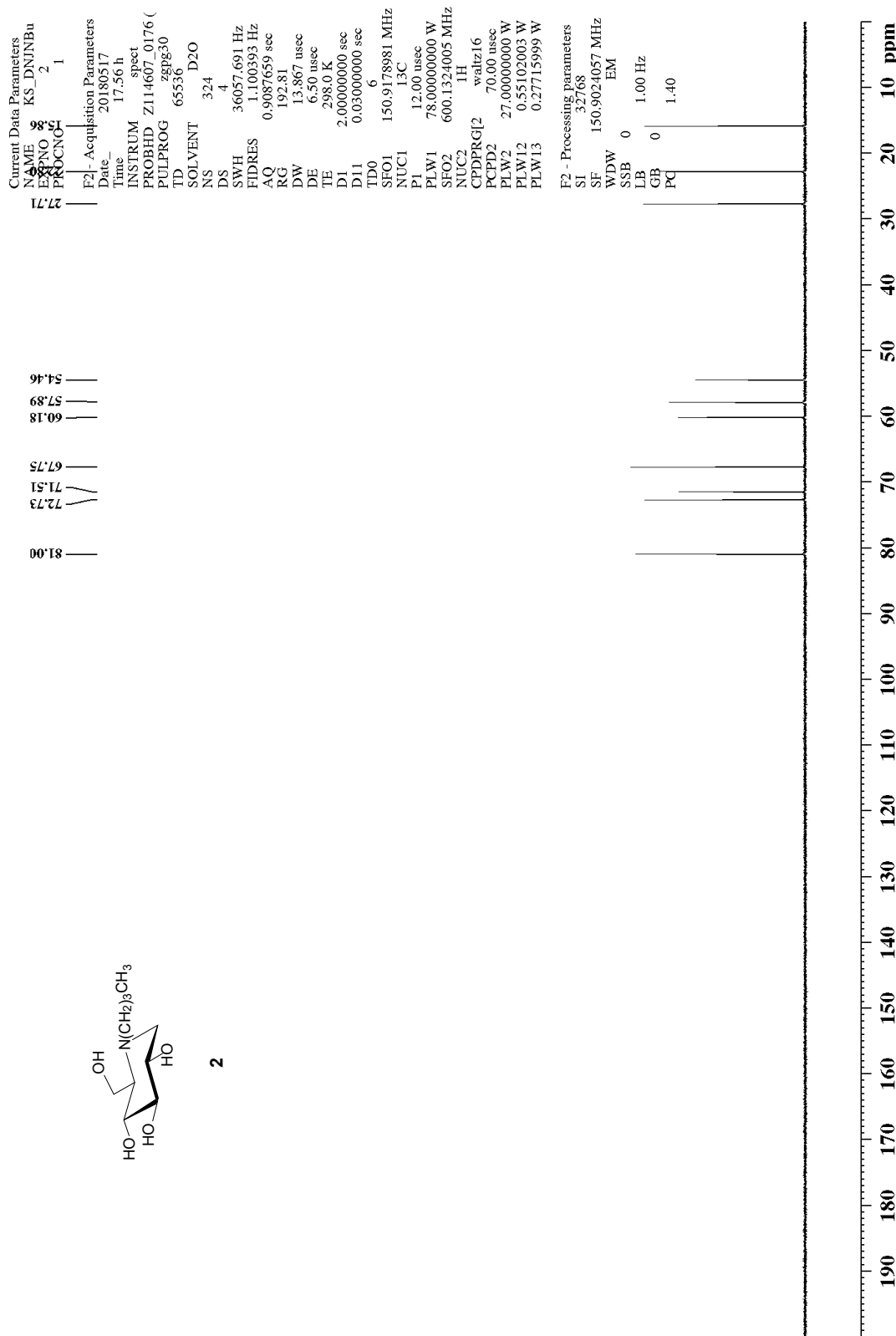
81.10
74.21
73.58
64.07
63.23
51.38



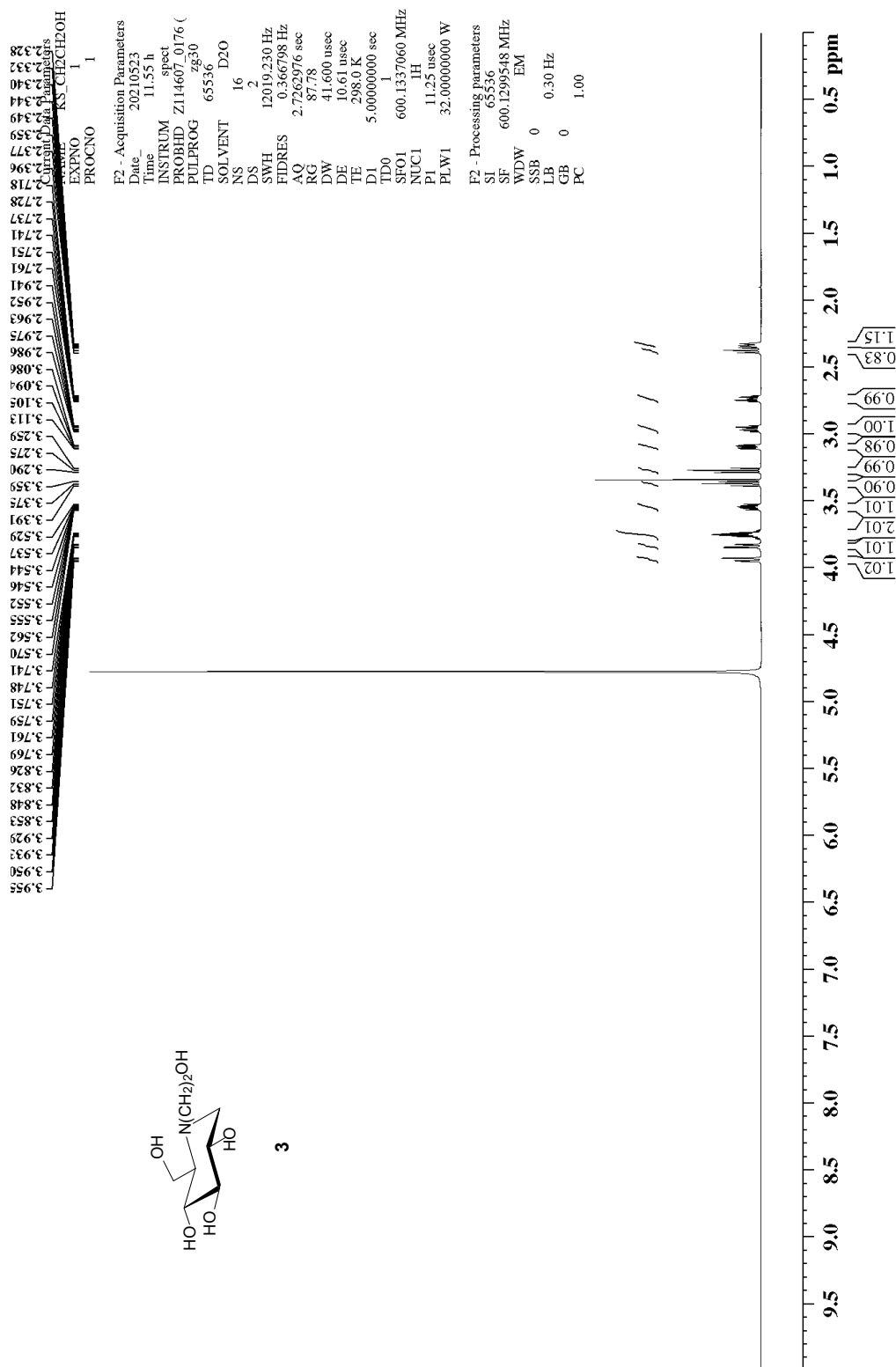
¹H NMR spectrum of Compound 2



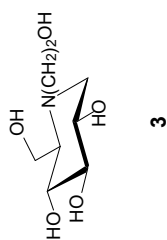
¹³C NMR spectrum of Compound 2



¹H NMR spectrum of Compound 3



¹³C NMR spectrum of Compound 3

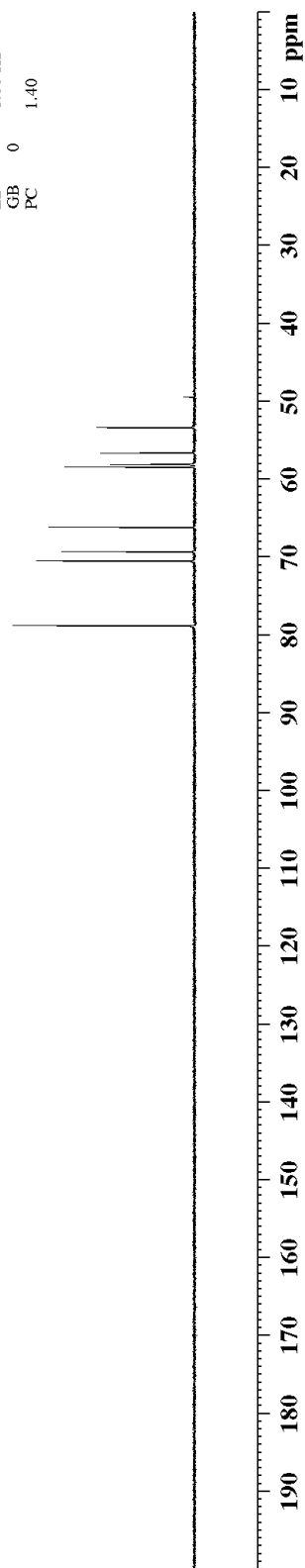


Current Data Parameters
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EXPNO 2
PROCNO 1

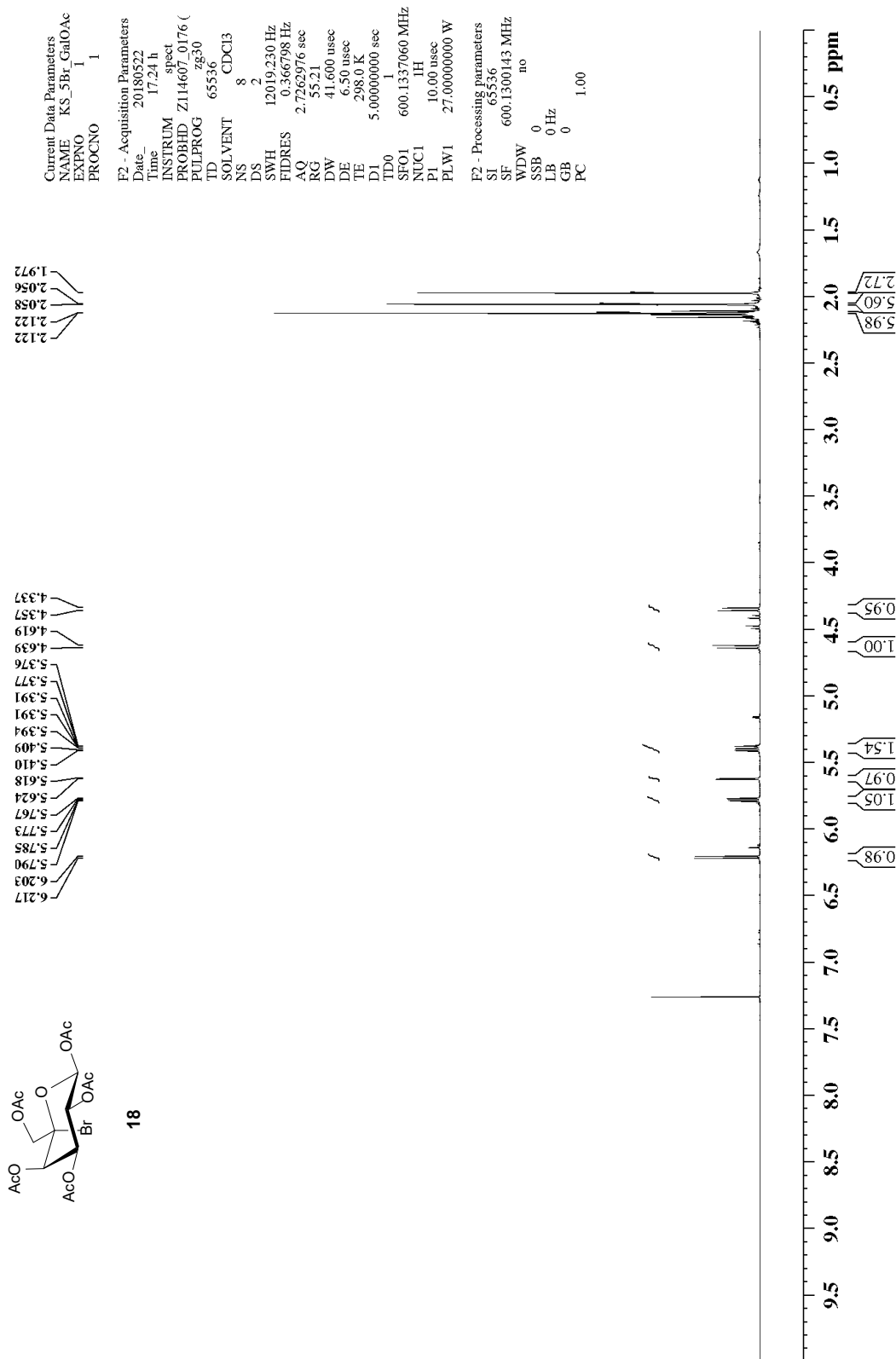
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INSTRUM spect
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PULPROG zgpg
TD 65536
SOLVENT D2O
NS 2535
DS 4
SWH 36057.691 Hz
FIDRES 1.100393 Hz
AQ 0.9087659 sec
RG 192.81
DW 13.867 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 5
SFO1 150.9178981 MHz
NUC1 13C
P1 11.50 usec
PLW1 90.00000000 W
SFO2 600.1324005 MHz
NUC2 1H
PCPDPRG2 waltz16
PCPD2 70.00 usec
PLW2 28.00000000 W
PLW12 0.46285999 W

F2 - Processing parameters
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SSB 0
LB 1.00 Hz
GB 0
PC 1.40

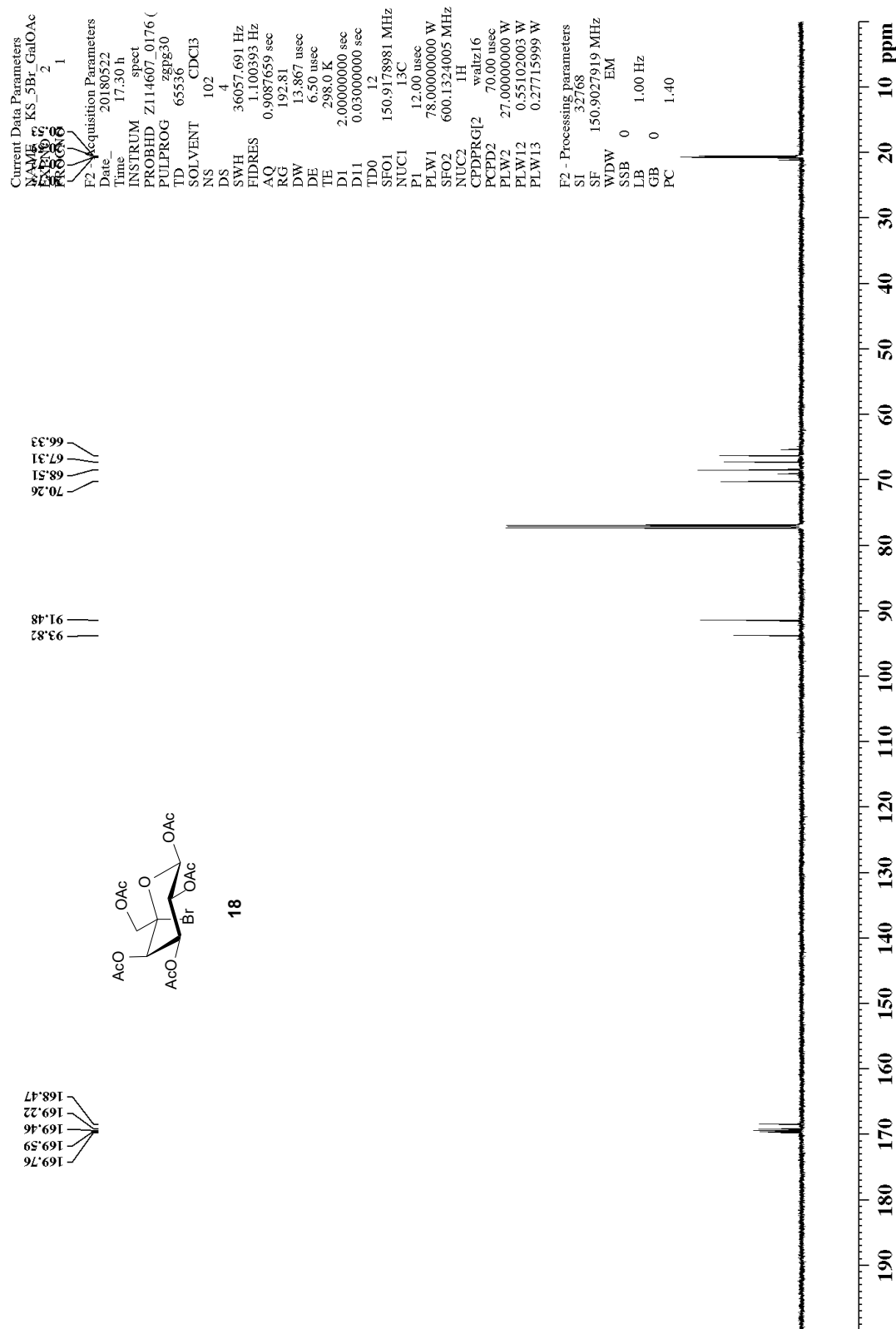
78.87
70.55
69.33
66.21
58.49
58.18
56.67
53.43



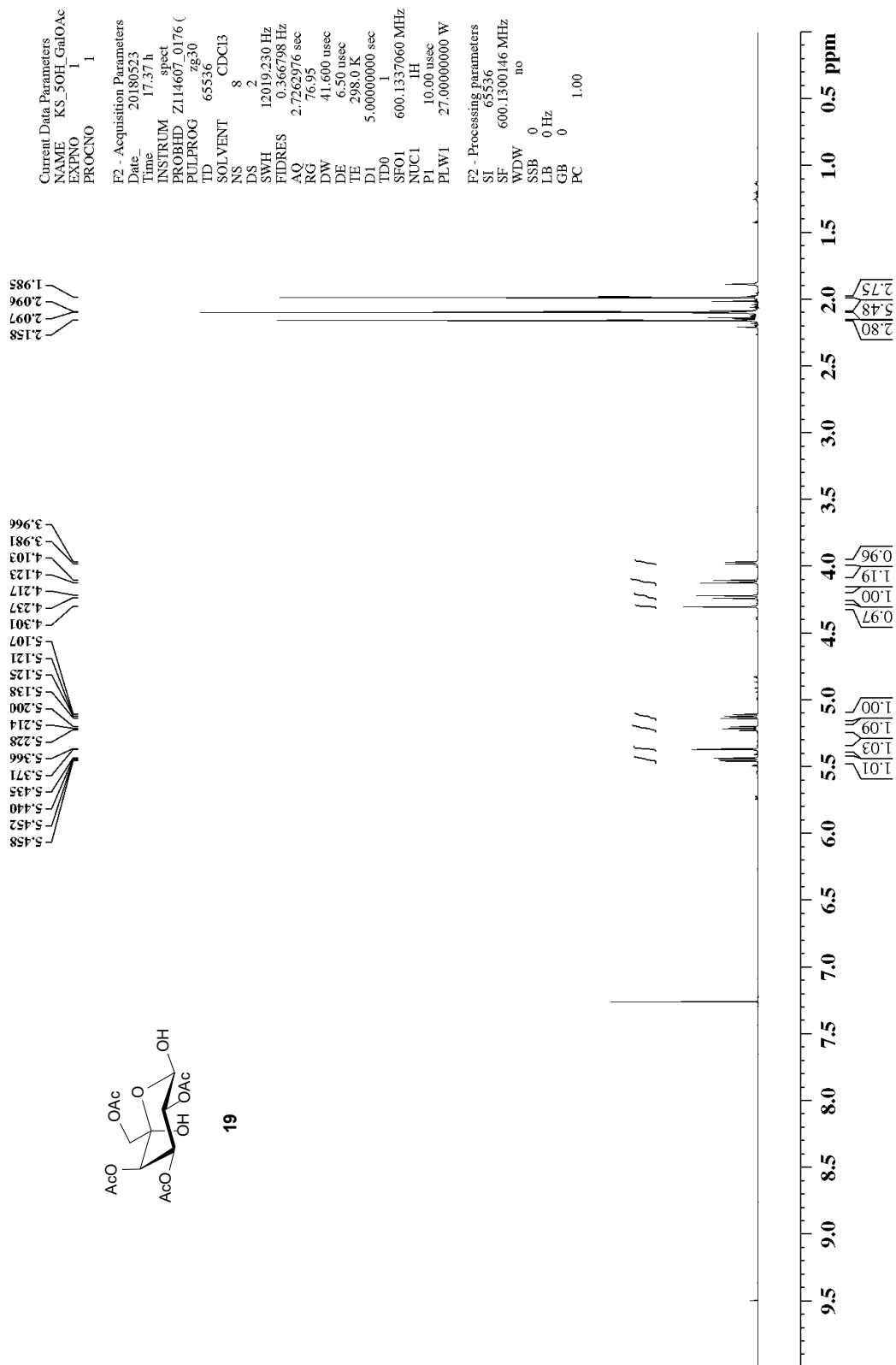
¹H NMR spectrum of Compound 18



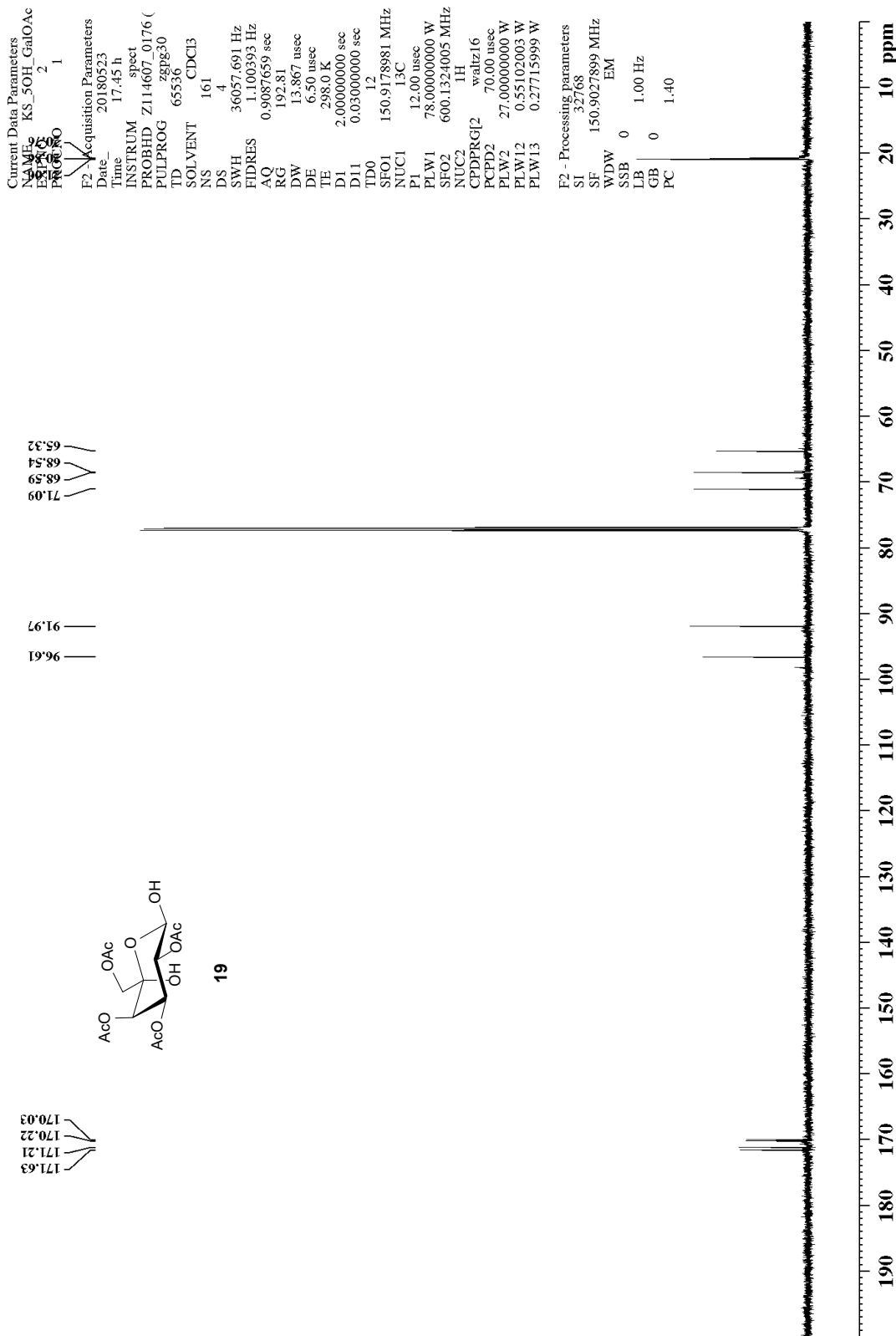
¹³C NMR spectrum of Compound 18



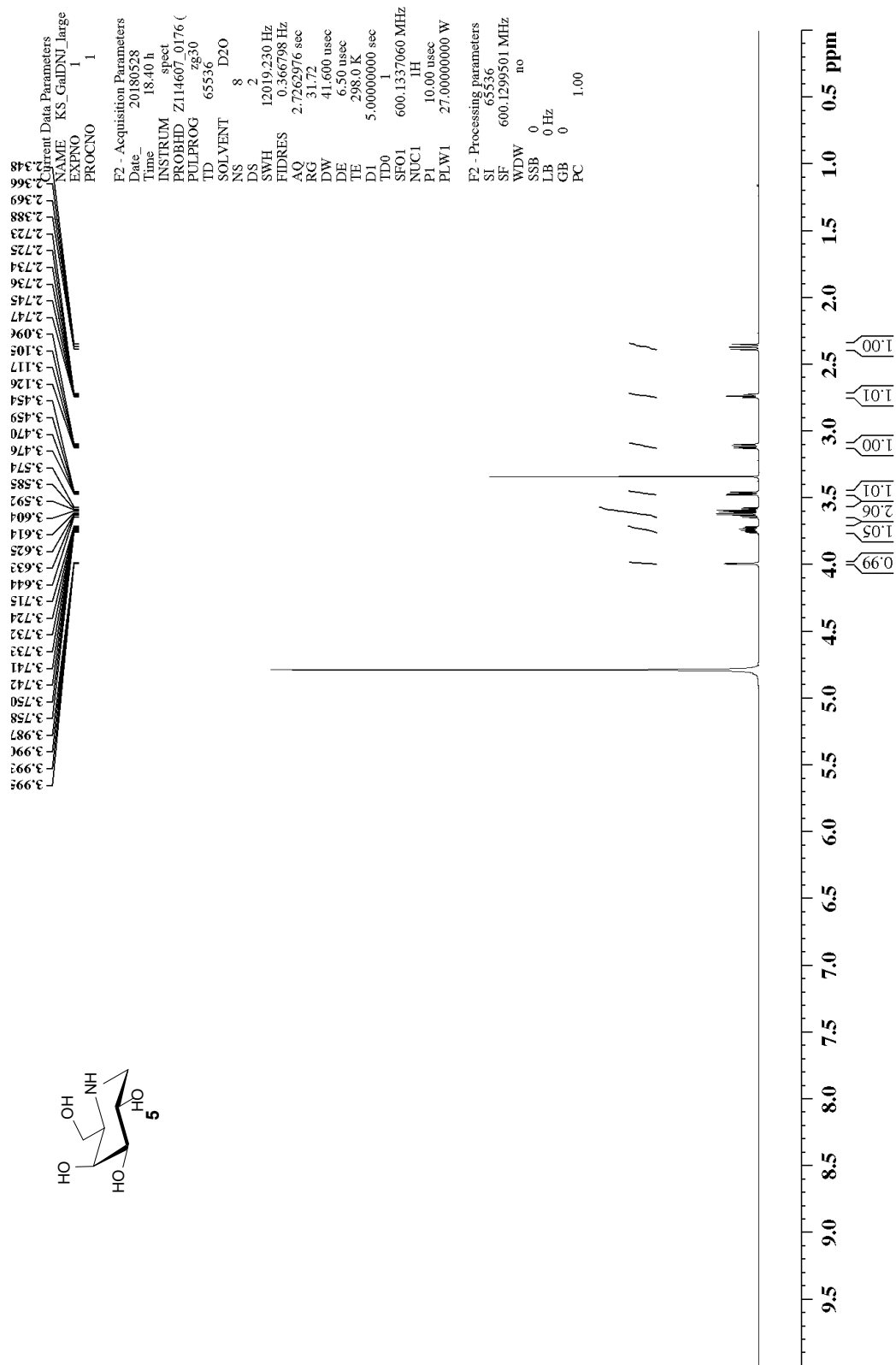
¹H NMR spectrum of Compound 19



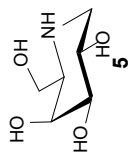
¹³C NMR spectrum of Compound 19



¹H NMR spectrum of Compound 5



¹³C NMR spectrum of Compound 5



Current Data Parameters
NAME KS_GalDNJ_large
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
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Time 18.46 h
INSTRUM spect
PROBHD Z114607_0176 (zpg30)
TD 65536
SOLVENT D2O
NS 105
DS 4
SWH 36057.691 Hz
FIDRES 1.100393 Hz
AQ 0.9087659 sec
RG 192.81
DW 13.867 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
D12
D13
SFO1 150.9178981 MHz
NUC1 13C
P1 12.00 usec
PLW1 78.00000000 W
SFO2 600.1324005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 70.00 usec
PLW2 27.00000000 W
PLW12 0.55102003 W
PLW13 0.27715999 W

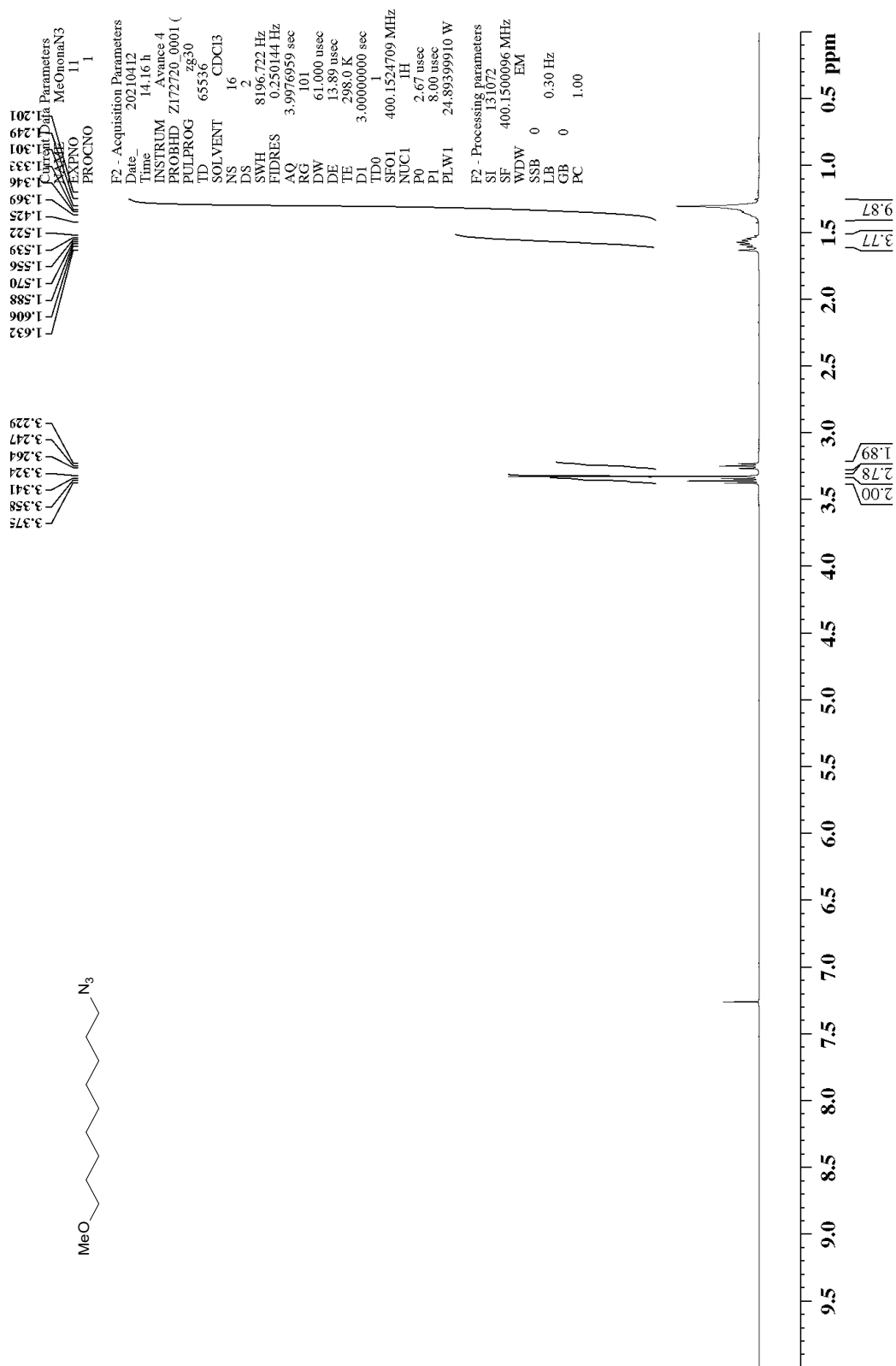
F2 - Processing Parameters
SI 32768
SF 150.9027092 MHz
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SSB 0
LB 1.00 Hz
GB 0
PC 1.40

75.66
69.86
68.77
61.99
59.42
49.66

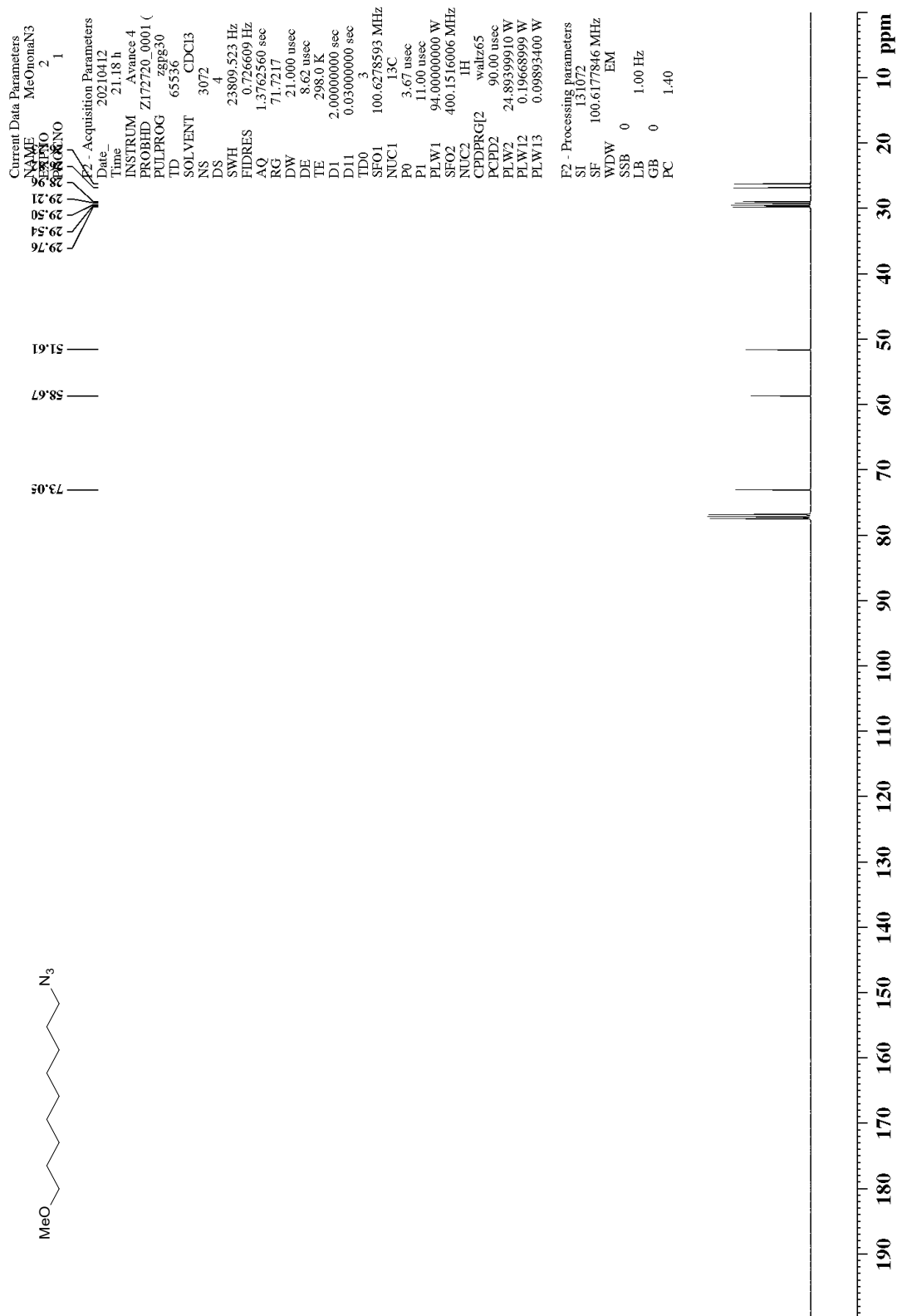


190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ppm

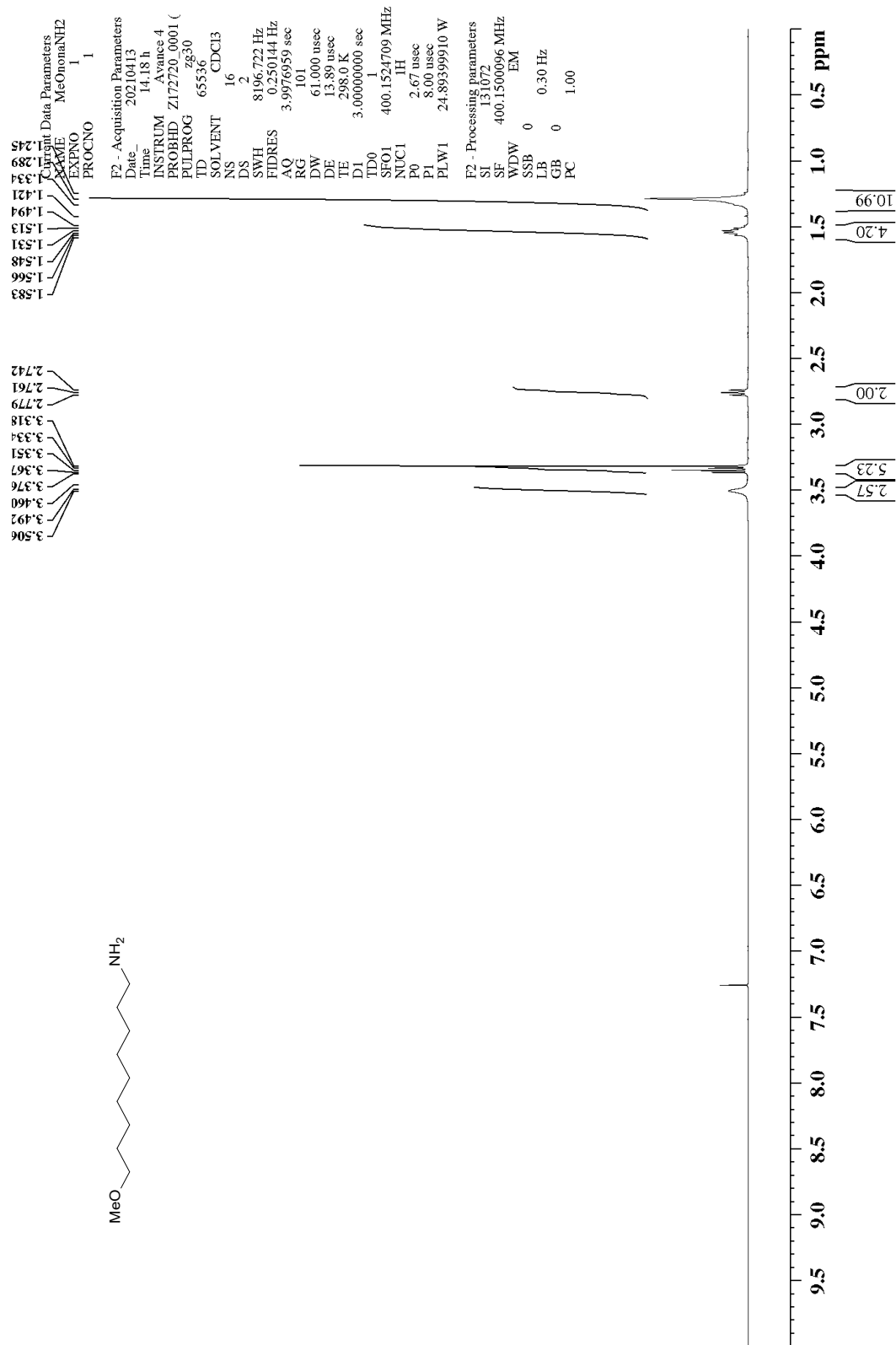
¹H NMR spectrum of Compound 1-Azido-9-methoxynonane



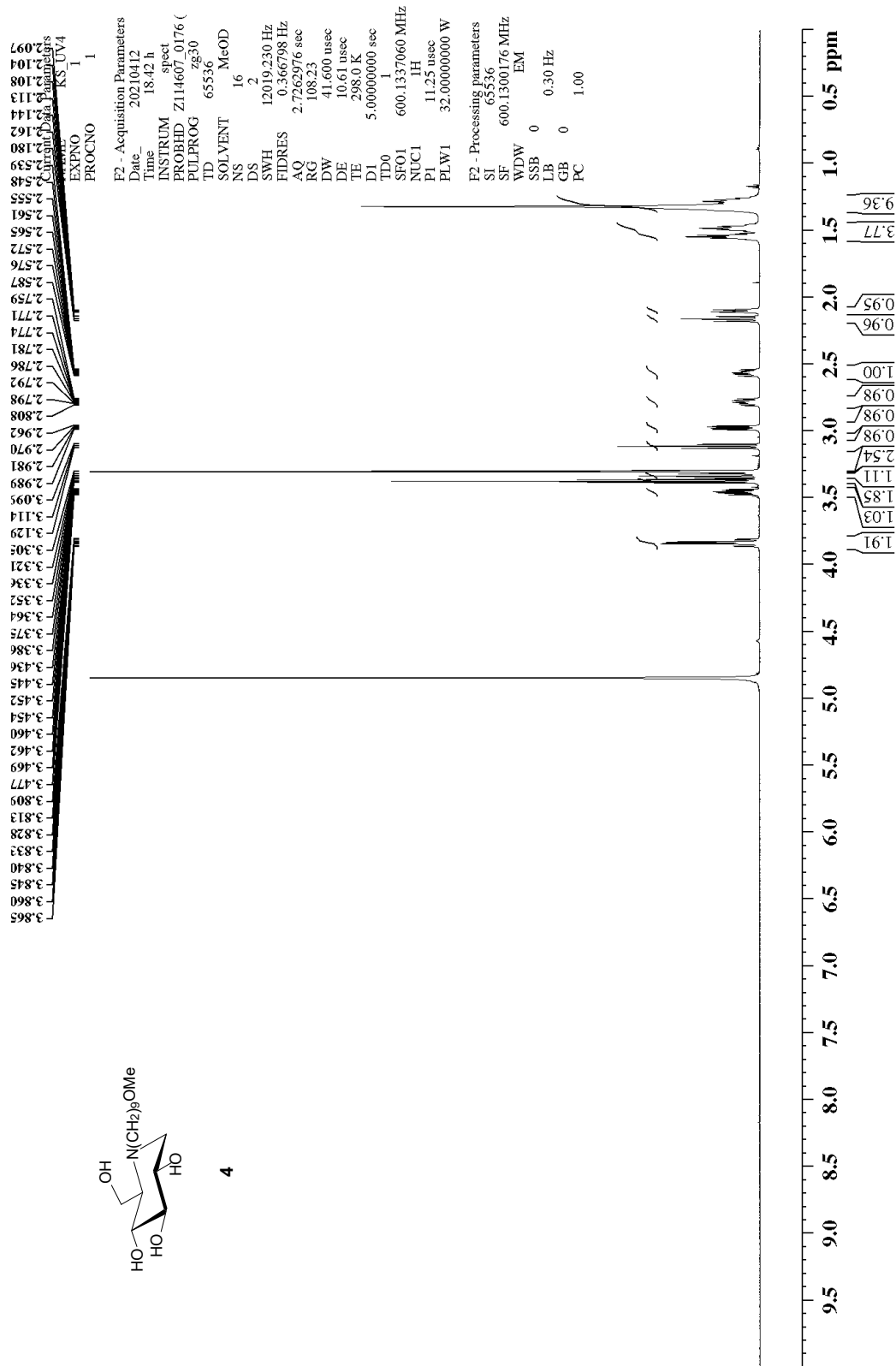
¹³C NMR spectrum of Compound 1-Azido-9-methoxynonane



¹H NMR spectrum of Compound 1-Amino-9-methoxynonane



¹H NMR spectrum of Compound 4



¹³C NMR spectrum of Compound 4

