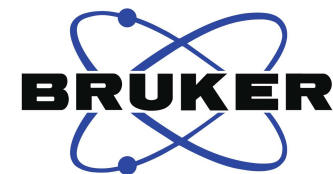
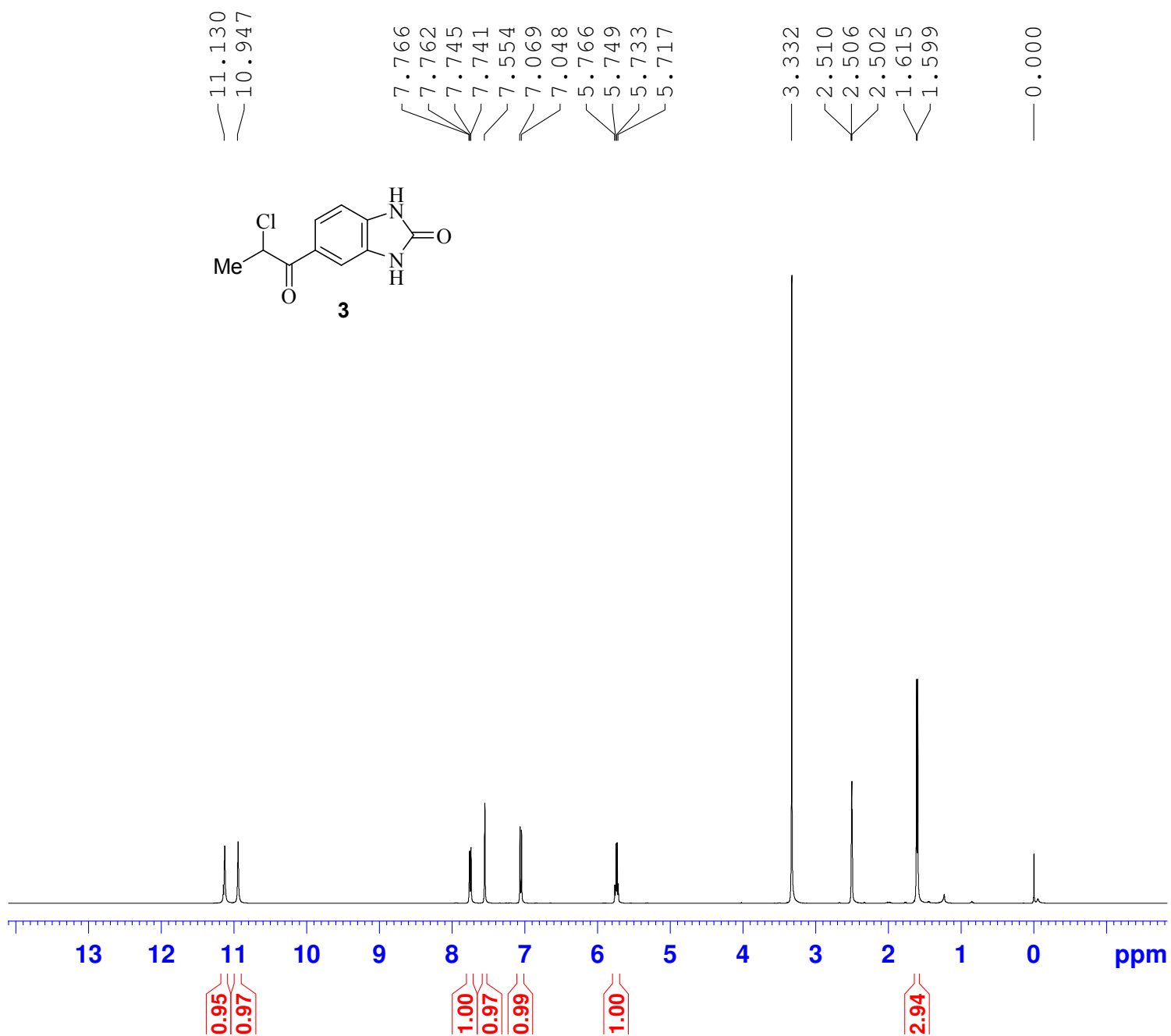


Copies of ¹H NMR and ¹³C NMR

¹H NMR Spectrum of Compound 3 (400 MHz, DMSO-d₆, 25 °C)



Current Data Parameters

NAME 2PMBD01-YXM-2581-022
 EXPNO 10
 PROCNO 1

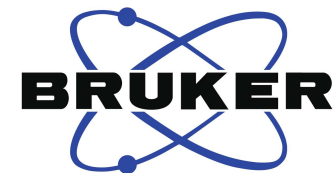
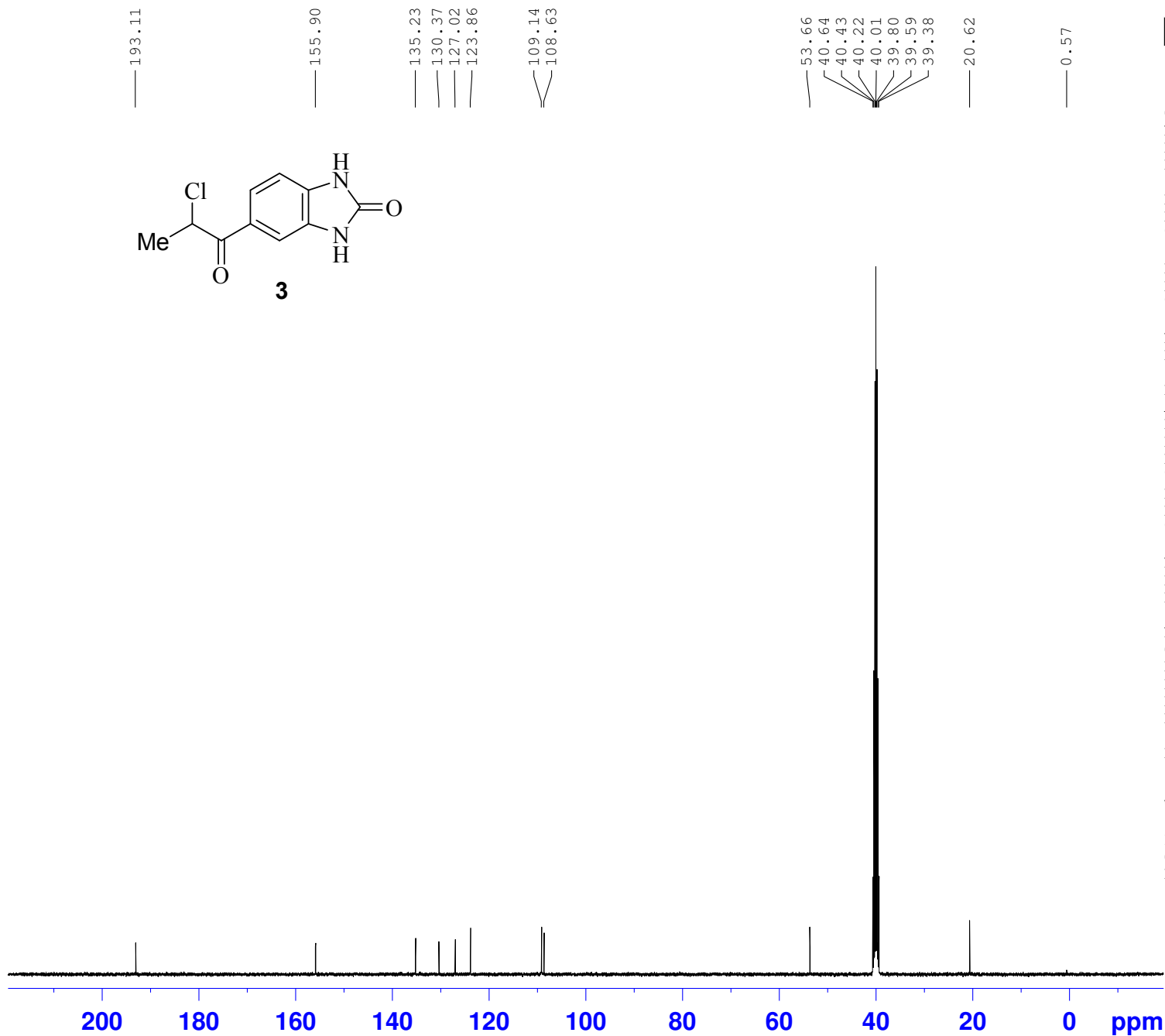
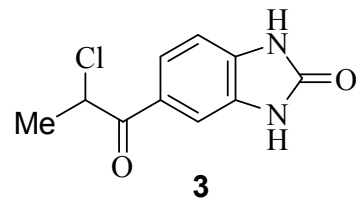
F2 - Acquisition Parameters

Date_ 20180822
 Time 13.42 h
 INSTRUM spect
 PROBHD Z116098_0432 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 129.11
 DW 62.400 usec
 DE 6.50 usec
 TE 299.4 K
 D1 1.00000000 sec
 TD0 1
 SFO1 400.1324708 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 14.57900047 W

F2 - Processing parameters

SI 65536
 SF 400.1300018 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

¹³C NMR Spectrum of Compound 3 (100 MHz, DMSO-d₆, 25 °C)

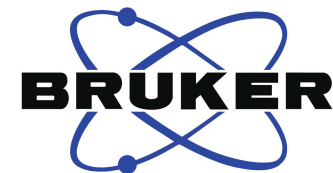


Current Data Parameters
NAME 2PMBD01-YXM-2581-022
EXPNO 11
PROCNO 1

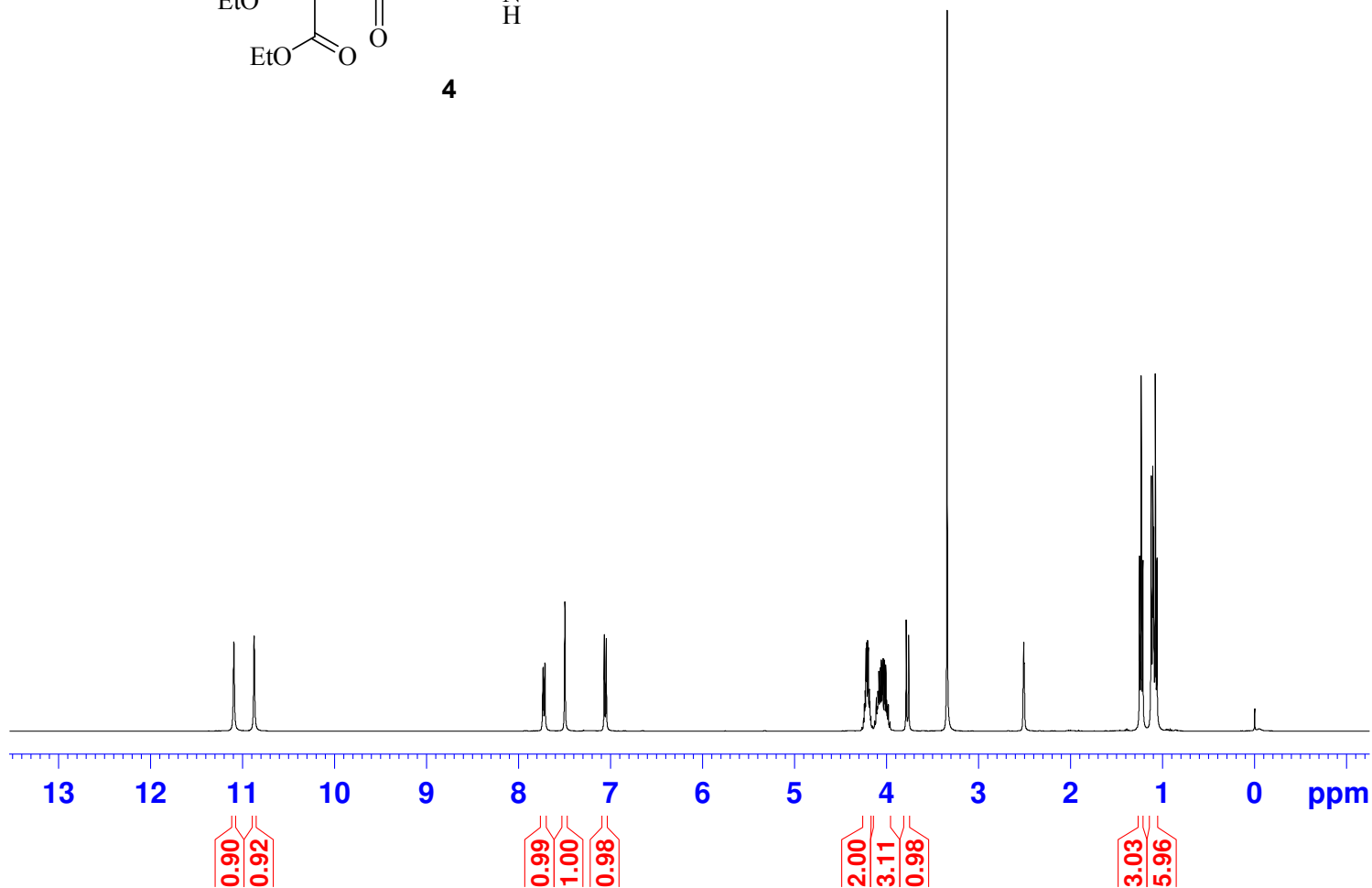
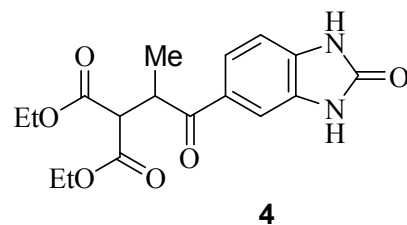
F2 - Acquisition Parameters
Date_ 20180822
Time 14.42 h
INSTRUM spect
PROBHD Z116098_0432 (
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 2048
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 214.96
DW 20.800 usec
DE 6.50 usec
TE 298.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 100.6228298 MHz
NUC1 13C
P1 10.00 usec
PLW1 59.81299973 W
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 14.57900047 W
PLW12 0.17778289 W
PLW13 0.08910481 W

F2 - Processing parameters
SI 32768
SF 100.6127685 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

¹H NMR Spectrum of Compound 4 (400 MHz, DMSO-d₆, 25 °C)



11.092
10.871
7.739
7.736
7.718
7.715
7.500
7.070
7.050
4.225
4.218
4.207
4.200
4.086
4.068
4.058
4.040
4.028
4.010
3.788
3.762
3.344
2.514
2.510
2.506
1.252
1.234
1.216
1.125
1.107
1.098
1.080

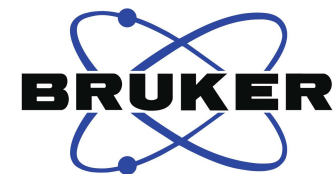


Current Data Parameters
NAME 2PMBD02-YXM-2581-030
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180828
Time 21.12 h
INSTRUM spect
PROBHD Z116098_0432 (
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894966 sec
RG 84.7
DW 62.400 usec
DE 6.50 usec
TE 299.9 K
D1 1.00000000 sec
TD0 1
SFO1 400.1324708 MHz
NUC1 1H
P1 10.00 usec
PLW1 14.57900047 W

F2 - Processing parameters
SI 65536
SF 400.1300003 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

¹³C NMR Spectrum of Compound 4 (100 MHz, DMSO-d₆, 25 °C)



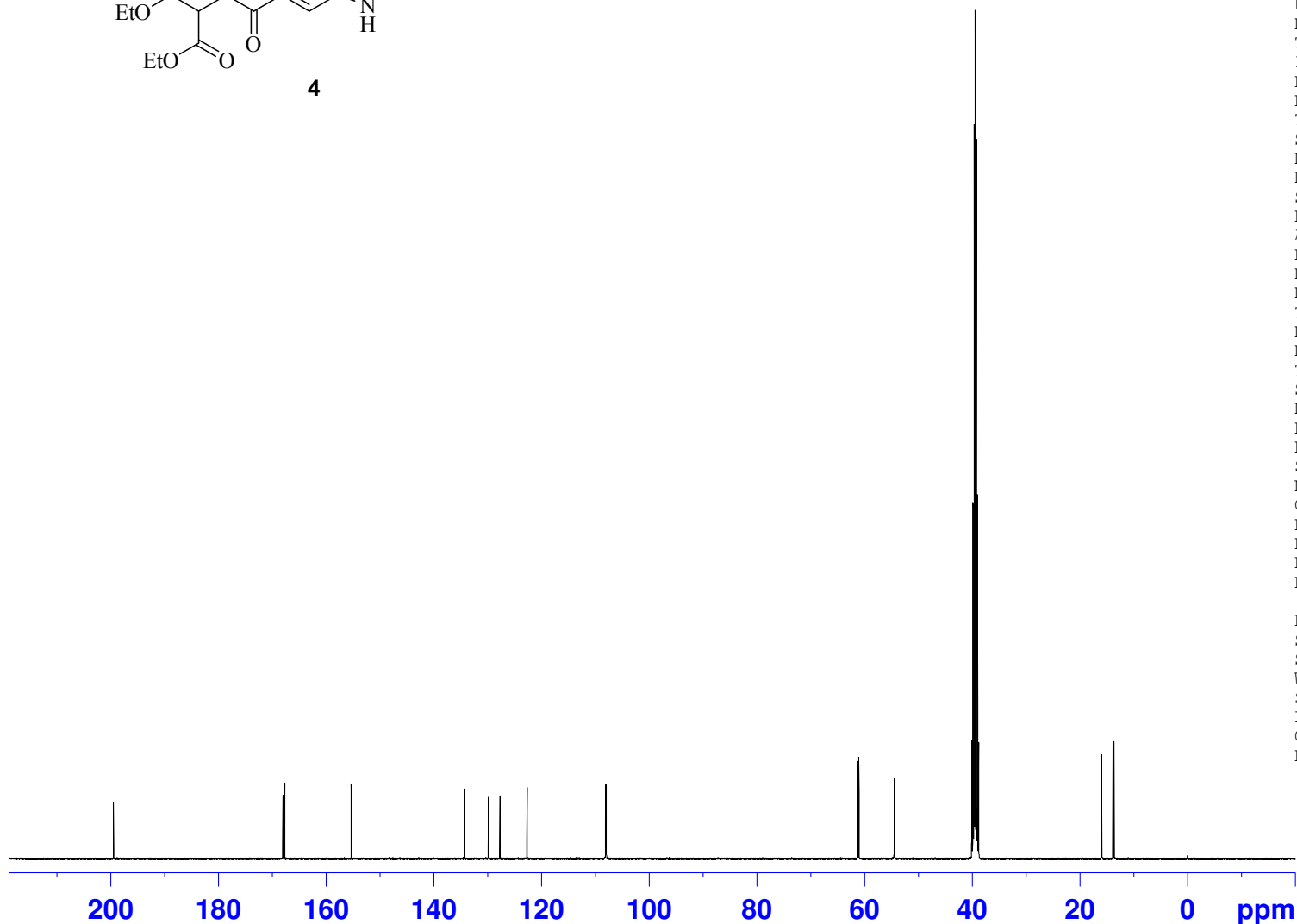
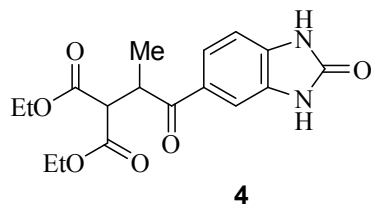
Current Data Parameters
 NAME 2PMBD02-YXM-2581-030
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180828
 Time 20.10 h
 INSTRUM spect
 PROBHD Z116098_0432 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 2048
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 214.96
 DW 20.800 usec
 DE 6.50 usec
 TE 298.2 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6228298 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 59.81299973 W
 SFO2 400.1316005 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 PCPD2 90.00 usec
 PLW2 14.57900047 W
 PLW12 0.17778289 W
 PLW13 0.08910481 W

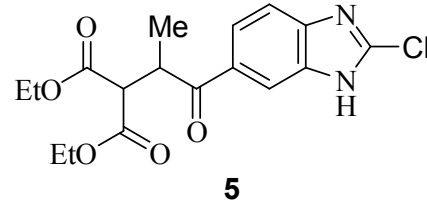
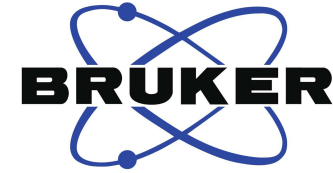
F2 - Processing parameters
 SI 32768
 SF 100.6127685 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

199.54
 168.07
 167.71
 155.35
 134.34
 129.88
 127.73
 122.70
 108.11
 108.00

61.27
 61.05
 54.50
 40.07
 39.87
 39.66
 39.45
 39.24
 39.03
 38.82
 15.97
 13.87
 13.67
 -0.00



¹H NMR Spectrum of Compound 5 (400 MHz, DMSO-d₆, 25 °C)



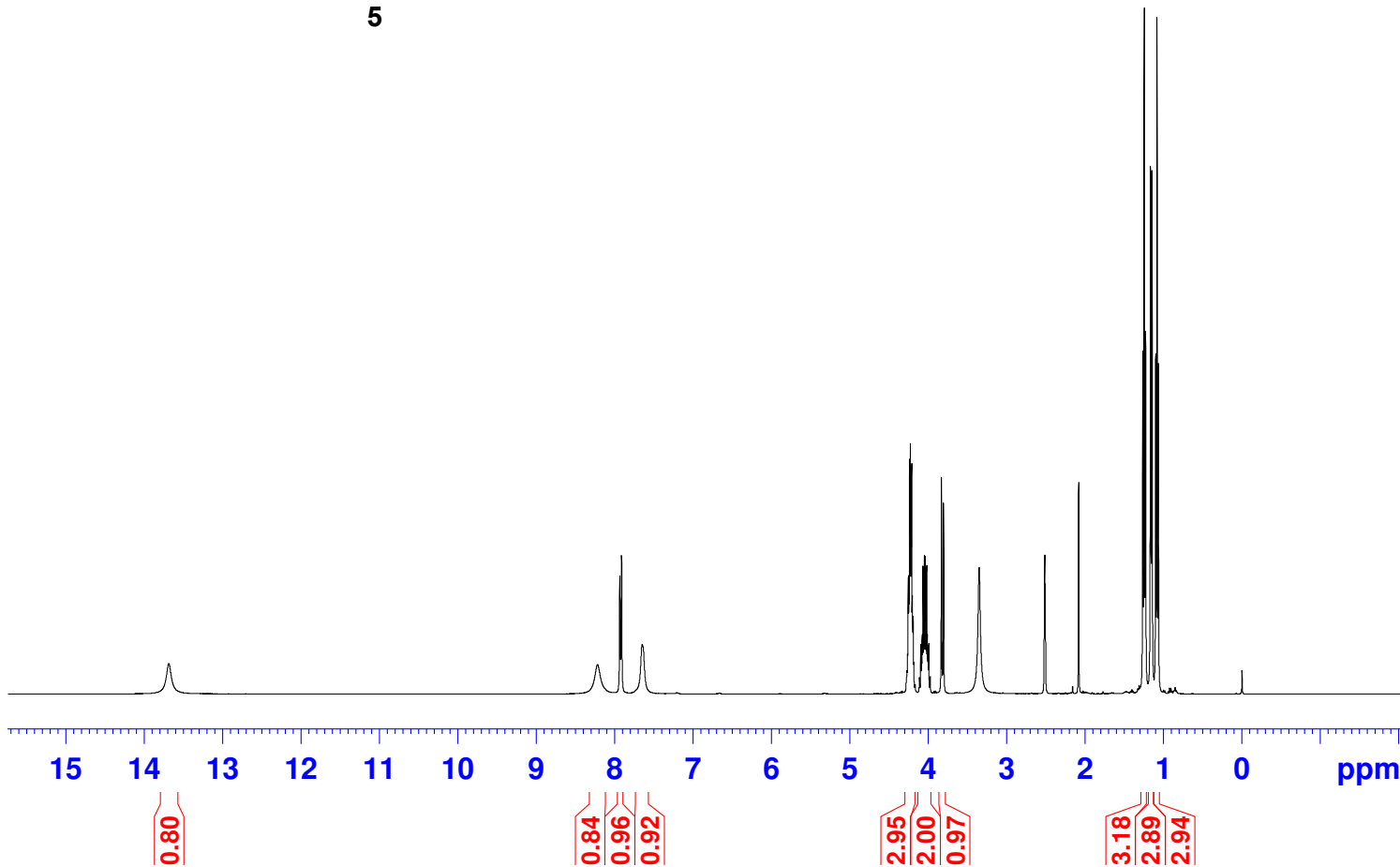
13.684

8.223
7.937
7.916
7.653
4.275
4.266
4.257
4.249
4.239
4.231
4.221
4.214
4.204
4.196
4.187
4.115
4.097
4.088
4.080
4.070
4.053
4.040
4.035
4.023
4.013
4.005
3.996
3.978
3.834
3.808
3.353
2.515
2.084
1.266

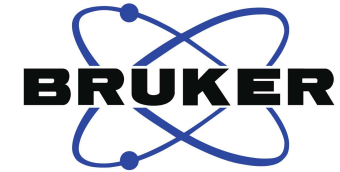
Current Data Parameters
 NAME 2PMBD03-YXM-2877-001
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180829
 Time 16.25 h
 INSTRUM spect
 PROBHD Z116098_0432 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 63.84
 DW 62.400 usec
 DE 6.50 usec
 TE 299.4 K
 D1 1.00000000 sec
 TD0 1
 SFO1 400.1324708 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 14.57900047 W

F2 - Processing parameters
 SI 65536
 SF 400.1299984 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



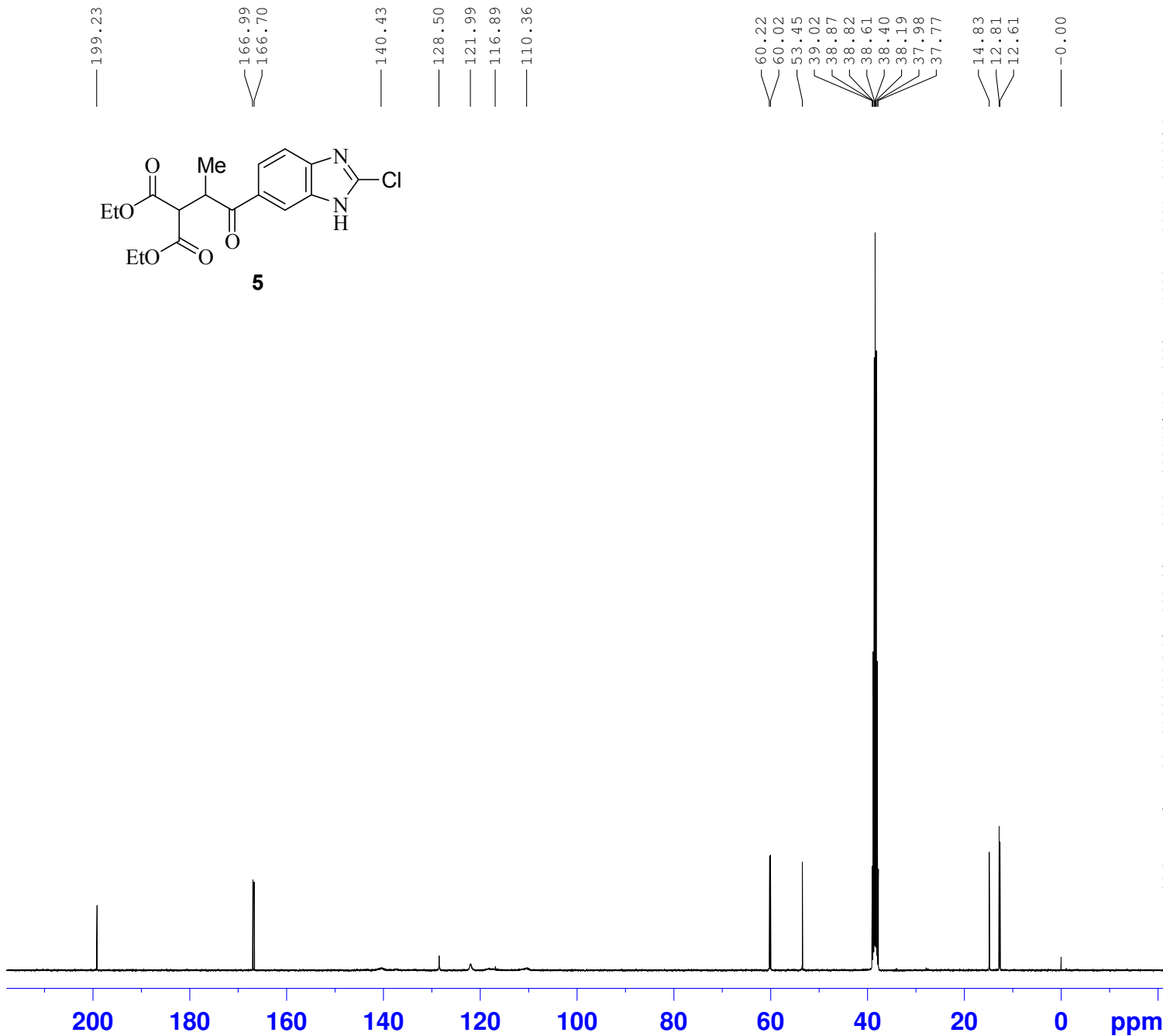
¹³C NMR Spectrum of Compound 5 (100 MHz, DMSO-d₆, 25 °C)



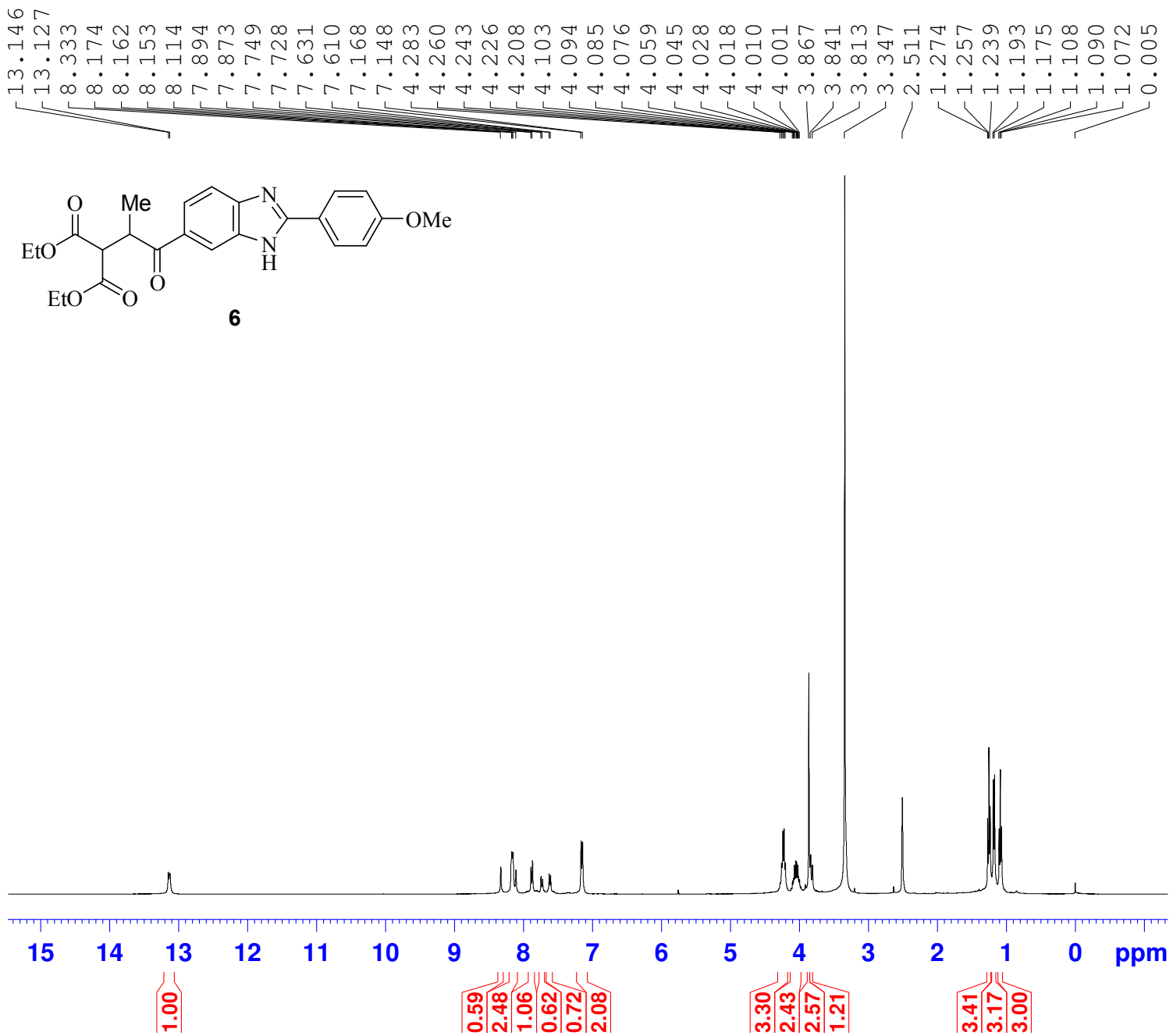
Current Data Parameters
NAME 2PMBD03-YXM-2877-001
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180829
Time 21.09h
INSTRUM spect
PROBHD Z116098_0432 (
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 2048
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 214.96
DW 20.800 usec
DE 6.50 usec
TE 298.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 100.6228298 MHz
NUC1 13C
P1 10.00 usec
PLW1 59.81299973 W
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 14.57900047 W
PLW12 0.17778289 W
PLW13 0.08910481 W

F2 - Processing parameters
SI 32768
SF 100.6127685 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



¹H NMR Spectrum of Compound 6 (400 MHz, DMSO-d₆, 25 °C)

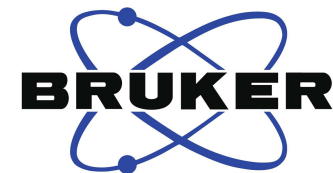


Current Data Parameters
NAME 2PMBD04-YXM-2581-028
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180830
Time 17.06 h
INSTRUM spect
PROBHD Z116098_0432 (
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894966 sec
RG 94.83
DW 62.400 usec
DE 6.50 usec
TE 299.5 K
D1 1.00000000 sec
TD0 1
SFO1 400.1324708 MHz
NUC1 1H
P1 10.00 usec
PLW1 14.57900047 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

¹³C NMR Spectrum of Compound 6 (100 MHz, DMSO-d₆, 25 °C)



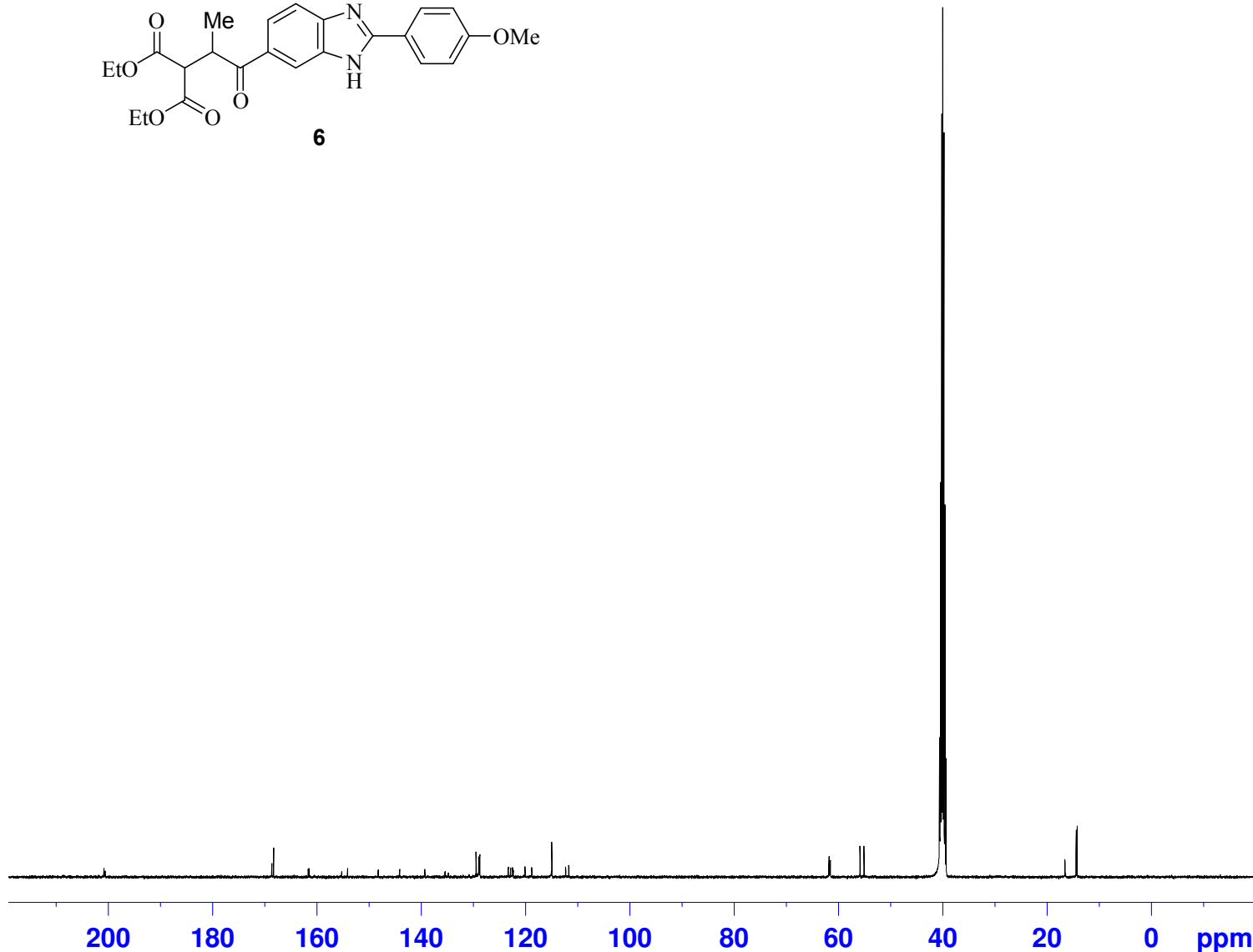
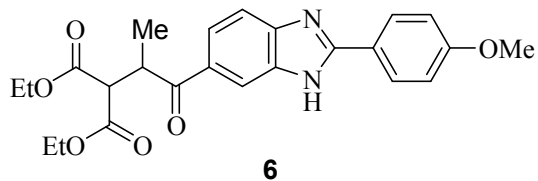
Current Data Parameters
 NAME 2PMBD04-YXM-2581-028
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180830
 Time 21.01 h
 INSTRUM spect
 PROBHD Z116098_0432 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 2048
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 214.96
 DW 20.800 usec
 DE 6.50 usec
 TE 298.2 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6228298 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 59.81299973 W
 SFO2 400.1316005 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 PCPD2 90.00 usec
 PLW2 14.57900047 W
 PLW12 0.17778289 W
 PLW13 0.08910481 W

F2 - Processing parameters
 SI 32768
 SF 100.6127685 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

200.86
200.66
168.68
168.32
161.71
161.53
155.29
154.14
148.29
144.18
139.34
135.47
134.83
129.51
129.02
128.81
123.34
122.90
122.51
122.39
120.14
118.84
115.01
112.34
111.73

61.81
61.63
61.59
55.89
55.12
40.63
40.42
40.22
40.01
39.80
39.59
39.38
16.59
16.52
14.44
14.24



¹H NMR Spectrum of Pimobendan 7 (600 MHz, DMSO-d₆, 25 °C)

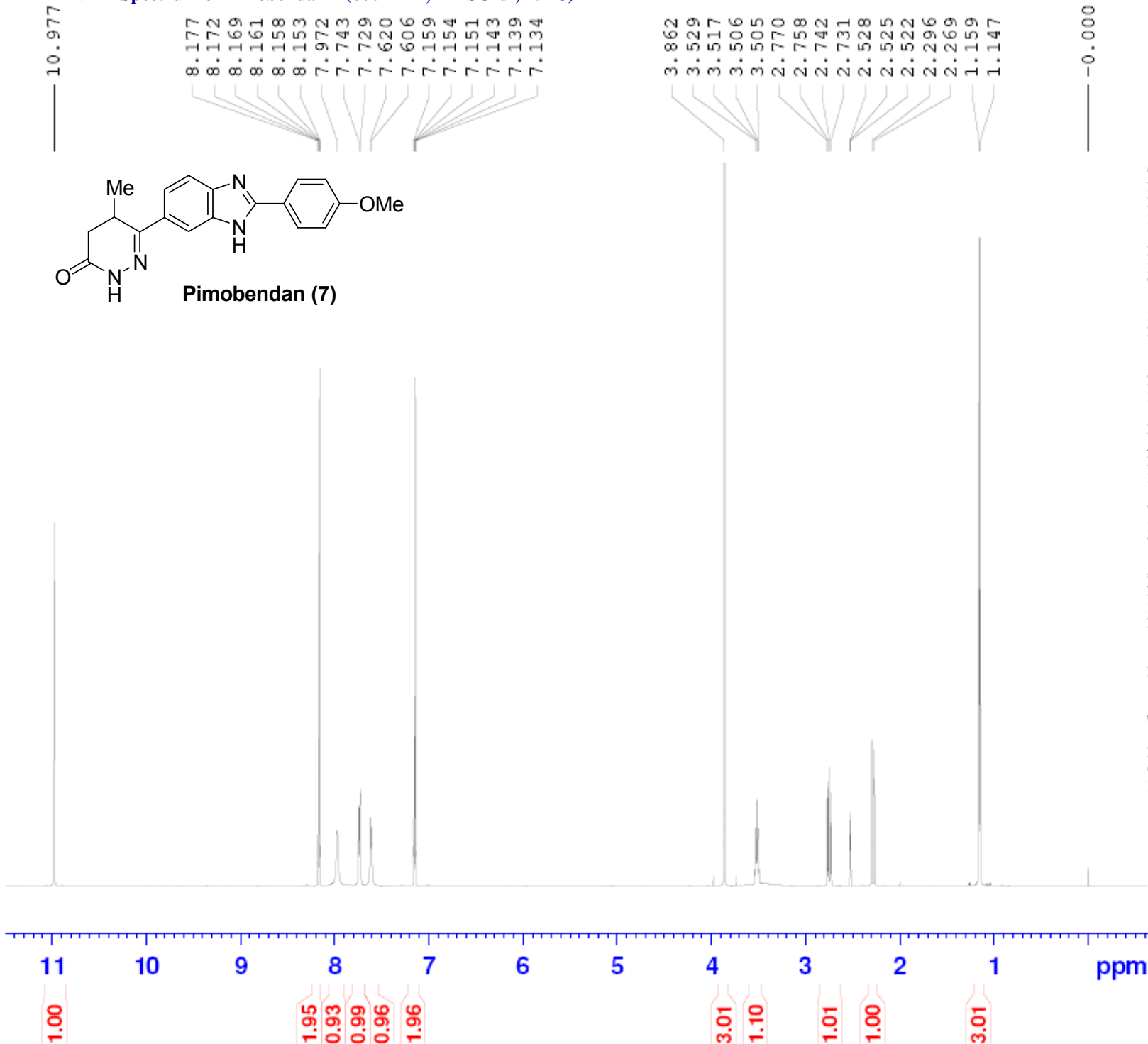
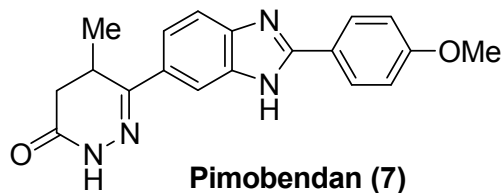


Current Data Parameters
NAME 2016-03-31 (16)w039p-2
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160330
Time 9.58
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 0
SWH 12335.526 Hz
FIDRES 0.188225 Hz
AQ 2.6564426 sec
RG 90.5
DW 40.533 usec
DE 6.50 usec
TE 295.8 K
D1 1.00000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 18.70 usec
PL1 -2.00 dB
SFO1 600.1337060 MHz

F2 - Processing parameters
SI 32768
SF 600.1299867 MHz
WDW GM
SSB 0
LB -0.20 Hz
GB 0.1
PC 1.00

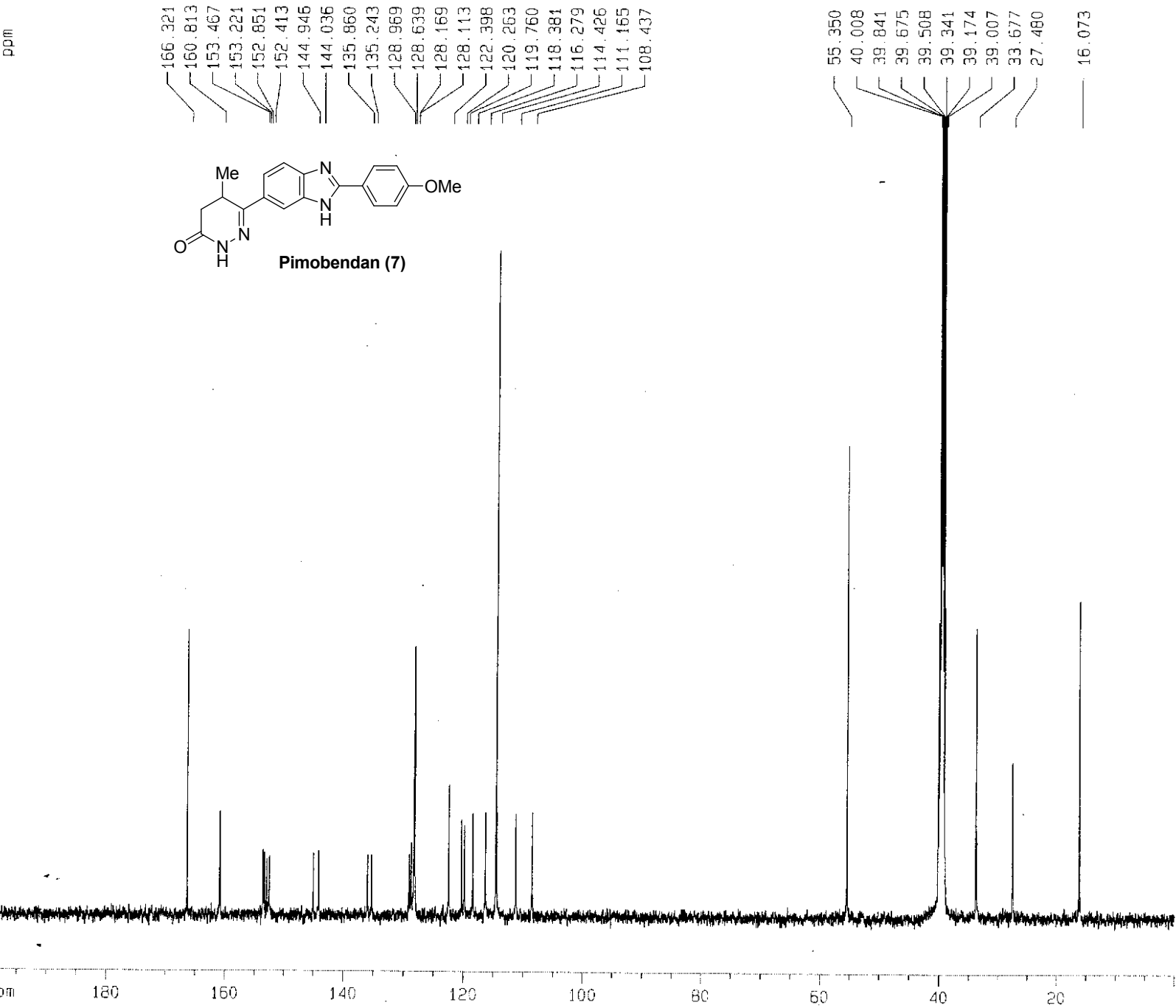


11 10 9 8 7 6 5 4 3 2 1 ppm

1.00 1.95 0.93 0.99 0.96 1.96 3.01 1.10 1.01 1.00 3.01

¹³C NMR Spectrum of Pimobendan 7 (125 MHz, DMSO-d₆, 25 °C)

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Current Data Parameters

NAME 0928-FM020090410
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20090928
 Time 14.33
 INSTRUM DRX500
 PROBO 5 mm GNP 1H/13
 PULPROG zgdc
 TD 32768
 SOLVENT DMSO
 NS 498
 DS 0
 SWH 37593.984 Hz
 FIDRES 1.147277 Hz
 AQ 0.4358777 sec
 RG 2048
 DW 13.300 usec
 DE 6.00 usec
 TE 0.0 K
 O1 2.0000000 sec
 d11 0.0300000 sec
 MCREST 0.0000000 sec
 MCWAK 0.0150000 sec

----- CHANNEL f1 -----

NUC1 13C
 P1 3.00 usec
 PL1 1.00 dB
 SF01 125.7703148 MHz

----- CHANNEL f2 -----

CPDPRG2 waltz16
 NUC2 1H
 PCPD2 81.00 usec
 PL2 -1.00 dB
 PL12 17.00 dB
 SF02 500.1322506 MHz

F2 - Processing parameters

SI 131072
 SF 125.7578493 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.00

1D NMR plot parameters

CX 21.00 cm
 CY 0.00 cm
 F1P 200.000 ppm
 F1 25151.57 Hz
 F2P -0.000 ppm
 F2 -0.00 Hz
 PPMCM 9.52361 ppm/cm
 HZCM 1197.69385 Hz/cm