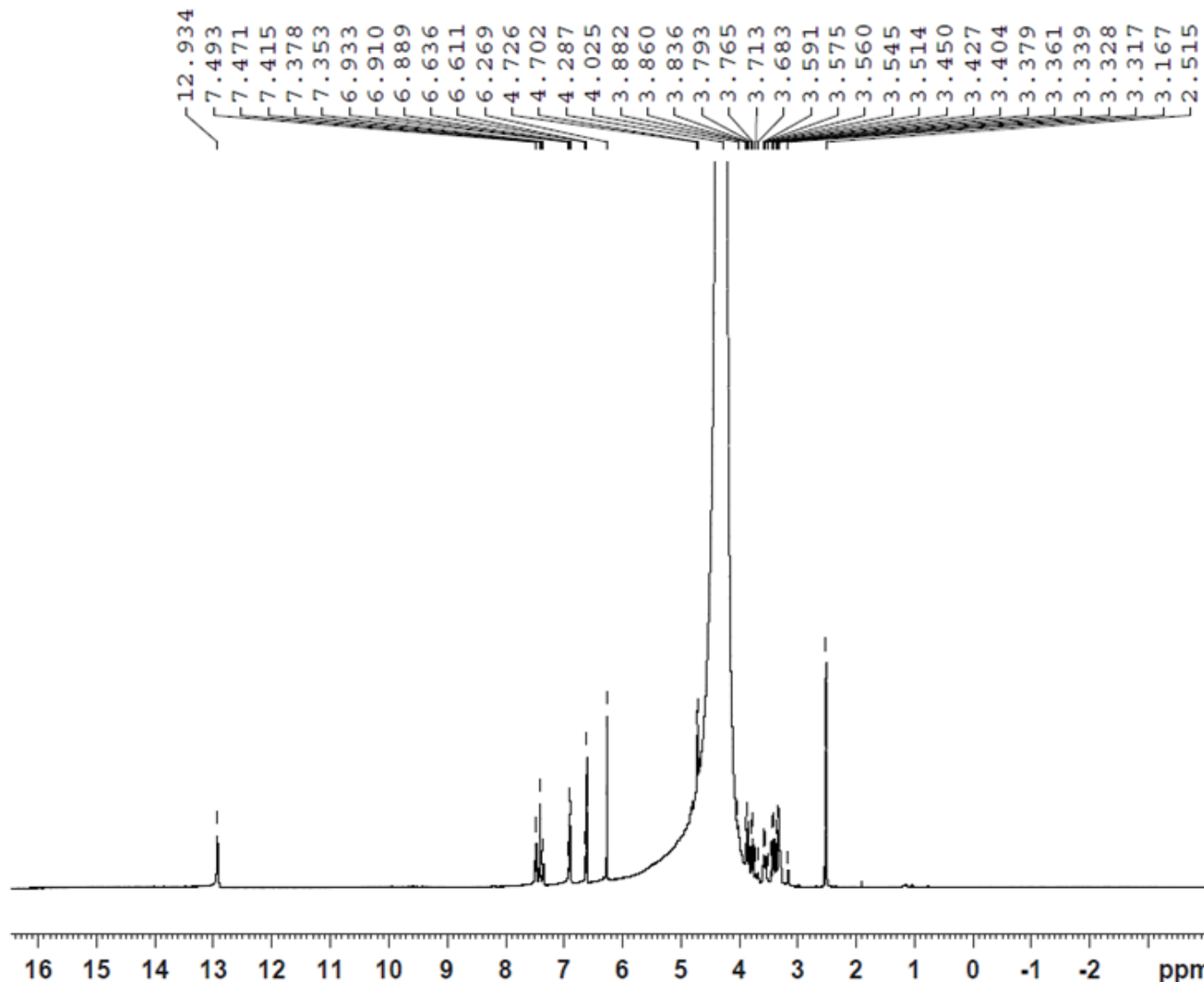


Structure of orientin



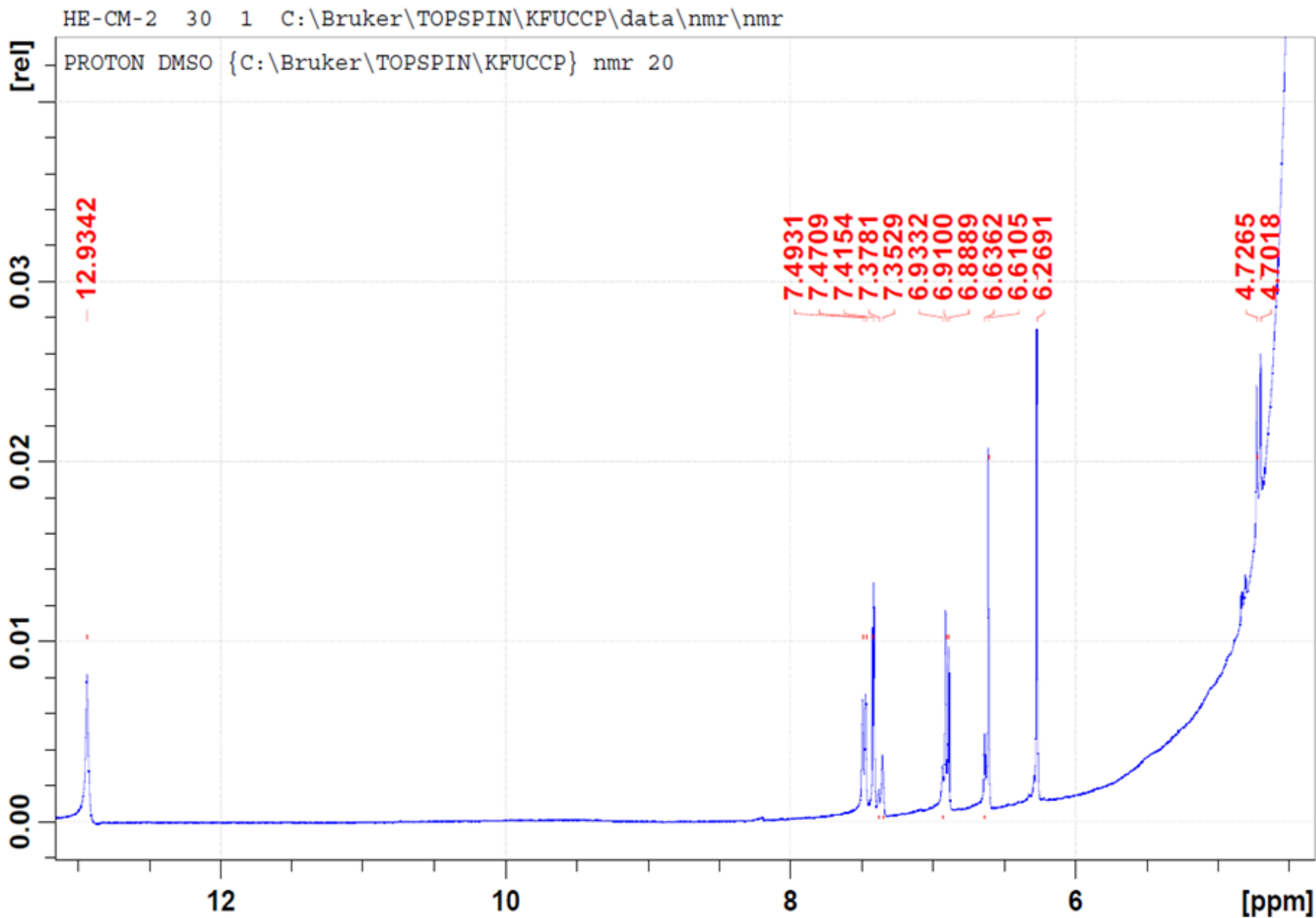
Current Data Parameters
 NAME HE-CM-2
 EXPNO 30
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20160612
 Time_ 15.10
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 70
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 6.2
 DW 60.800 usec
 DE 6.50 usec
 TE 297.1 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 15.00 usec
 PLW1 9.60000038 W
 SFO1 400.1324710 MHz

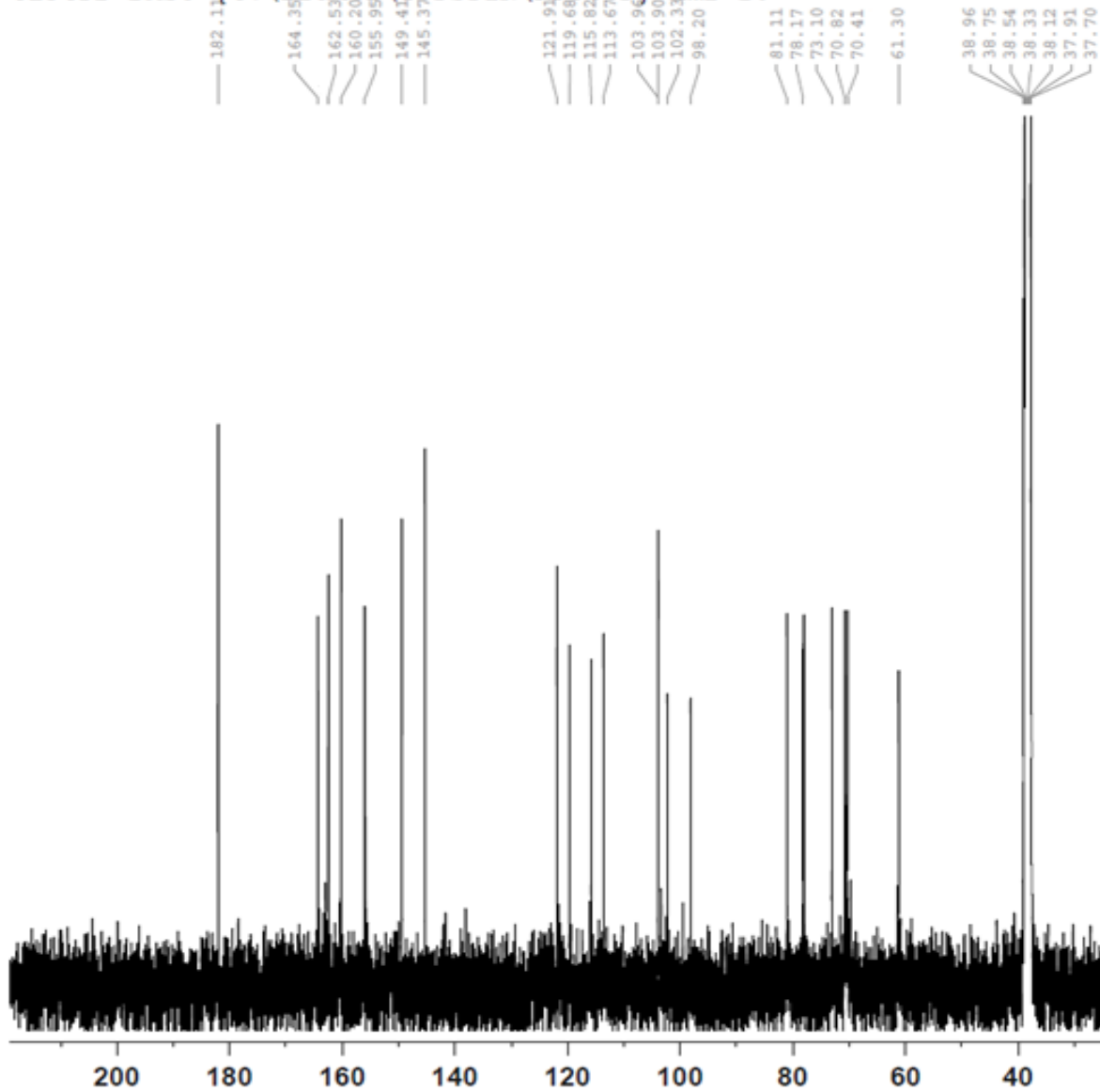
F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1-¹H NMR full spectrum of orientin, (400 MHz, DMSO-d₆)



2- Expanded ^1H NMR spectrum orientin, (400 MHz, DMSO- d_6).

C13CPD DMSO {C:\Bruker\TOPSPIN\KFUCCP} nmr 20



Current Data Parameters
NAME HE-CM-2
EXPNO 31
PROCNO 1

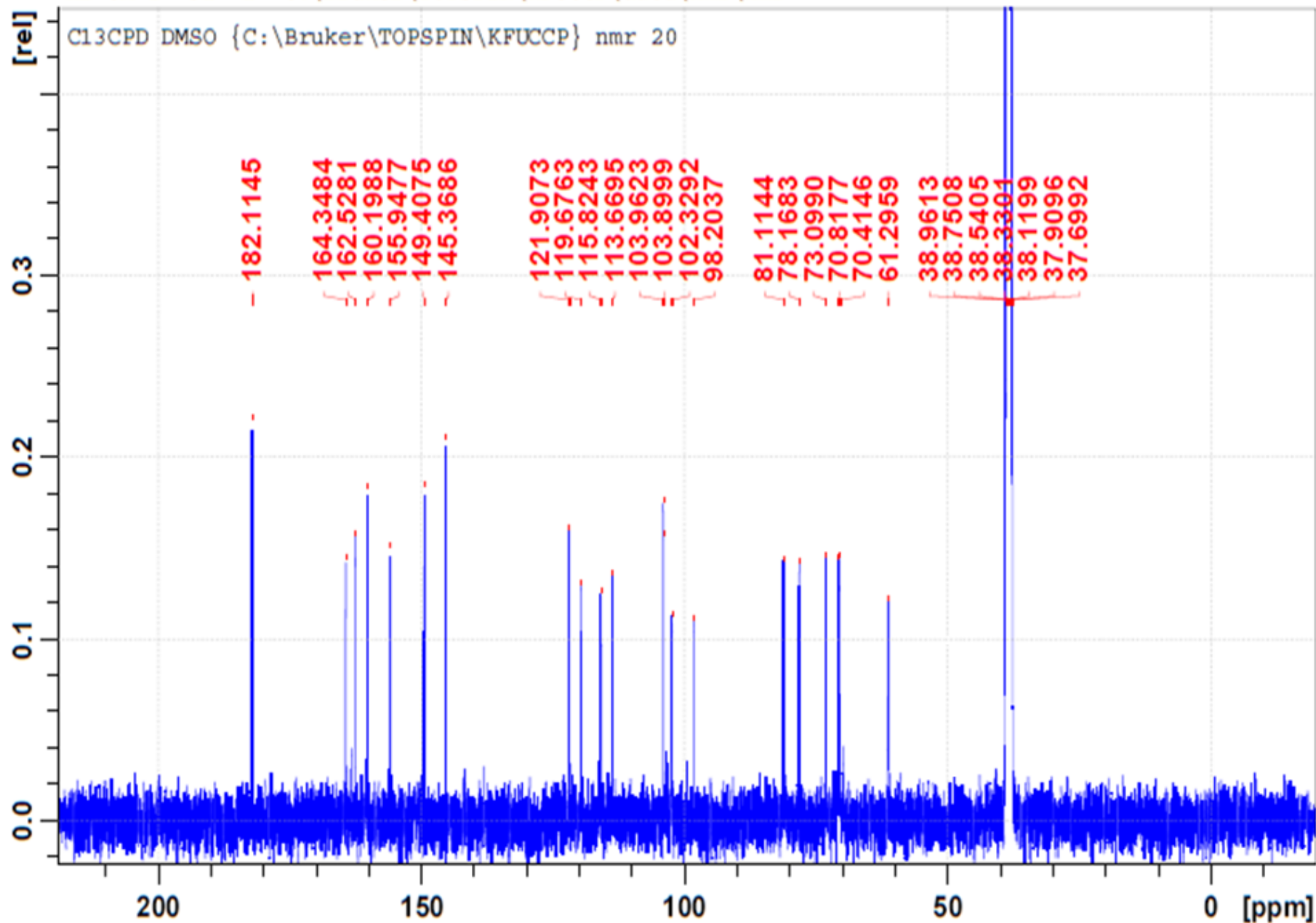
F2 - Acquisition Parameters
Date_ 20160612
Time_ 19.57
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 5000
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 189.35
DW 20.800 usec
DE 6.50 usec
TE 298.8 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 10.00 usec
PLW1 54.00000000 W
SFO1 100.6228293 MHz

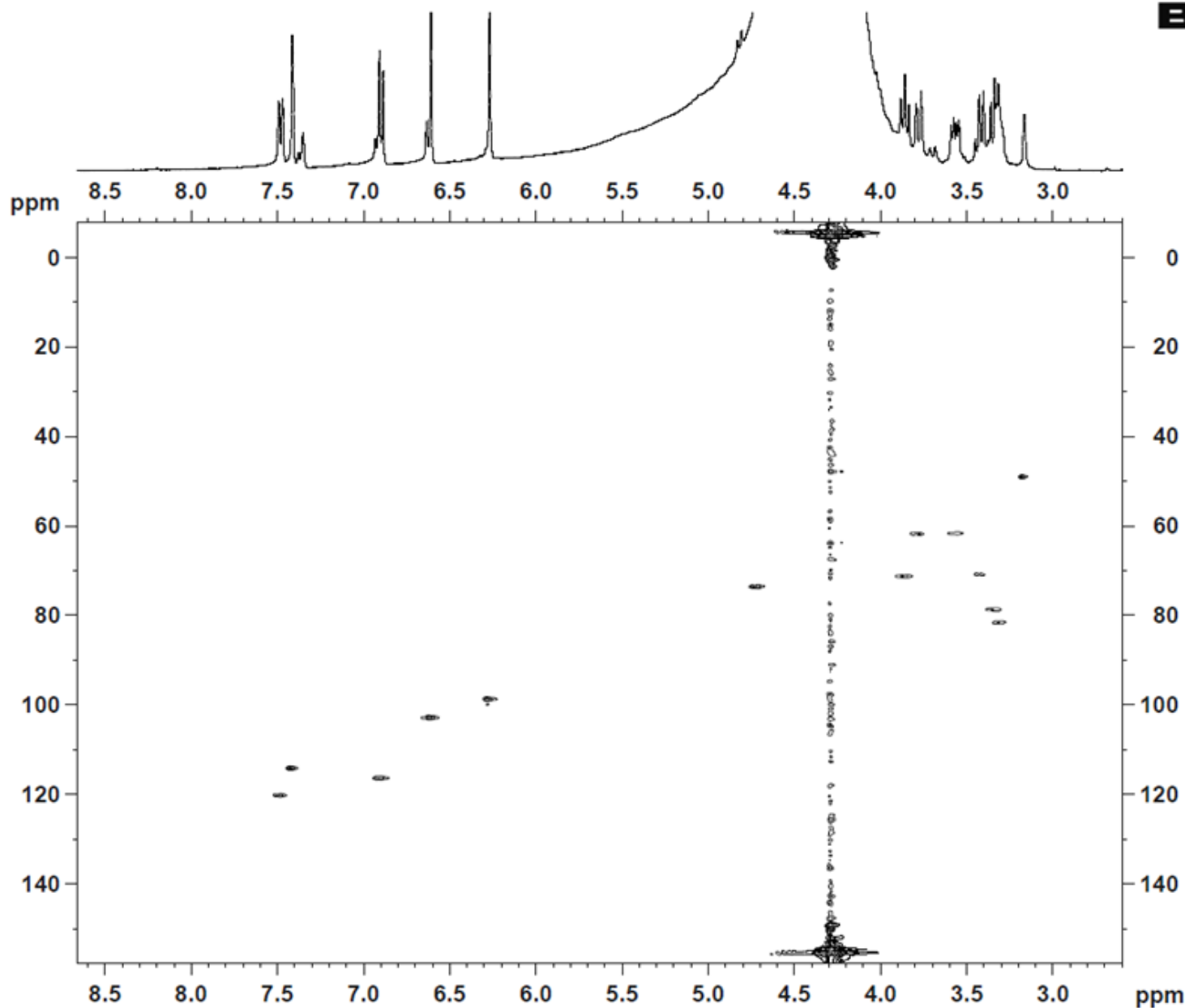
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PLW2 9.60000038 W
PLW12 0.26666999 W
PLW13 0.21600001 W
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6128193 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

3-¹³C NMR full spectrum of orientin, (100 MHz, DMSO-*d*₆)



4- Expanded ^{13}C NMR spectrum of orientin, (100 MHz, DMSO- d_6)



Current Data Parameters
NAME HK-OM-2
EXPNO 33
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160612
Time 22.49
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hsqcetgpgp12
TD 1024
SOLVENT DMSO
NS 4
DS 16
SWH 2427.185 Hz
FIDRES 2.376297 Hz
AQ 0.2109940 sec
RG 189.35
SM 206.000 usec
SE 6.50 usec
TE 298.0 K
CMT2 145.0000000
DO 0.0000300 sec
D1 1.38510704 sec
D4 0.00172414 sec
D11 0.03000000 sec
D16 0.00020000 sec
D24 0.00086207 sec
IN0 0.00003000 sec
ECHOPTNS

----- CHANNEL f1 -----
NUC1 1H
P1 15.00 usec
P2 30.00 usec
P28 0 usec
PLW1 9.60000038 W
SFO1 400.1322521 MHz

----- CHANNEL f2 -----
CPCPRG2 garp
NUC2 13C
P3 10.00 usec
P4 20.00 usec
PCPD2 80.00 usec
PLW2 54.00000000 W
PLW12 0.84375000 W
SFO2 100.6203124 MHz

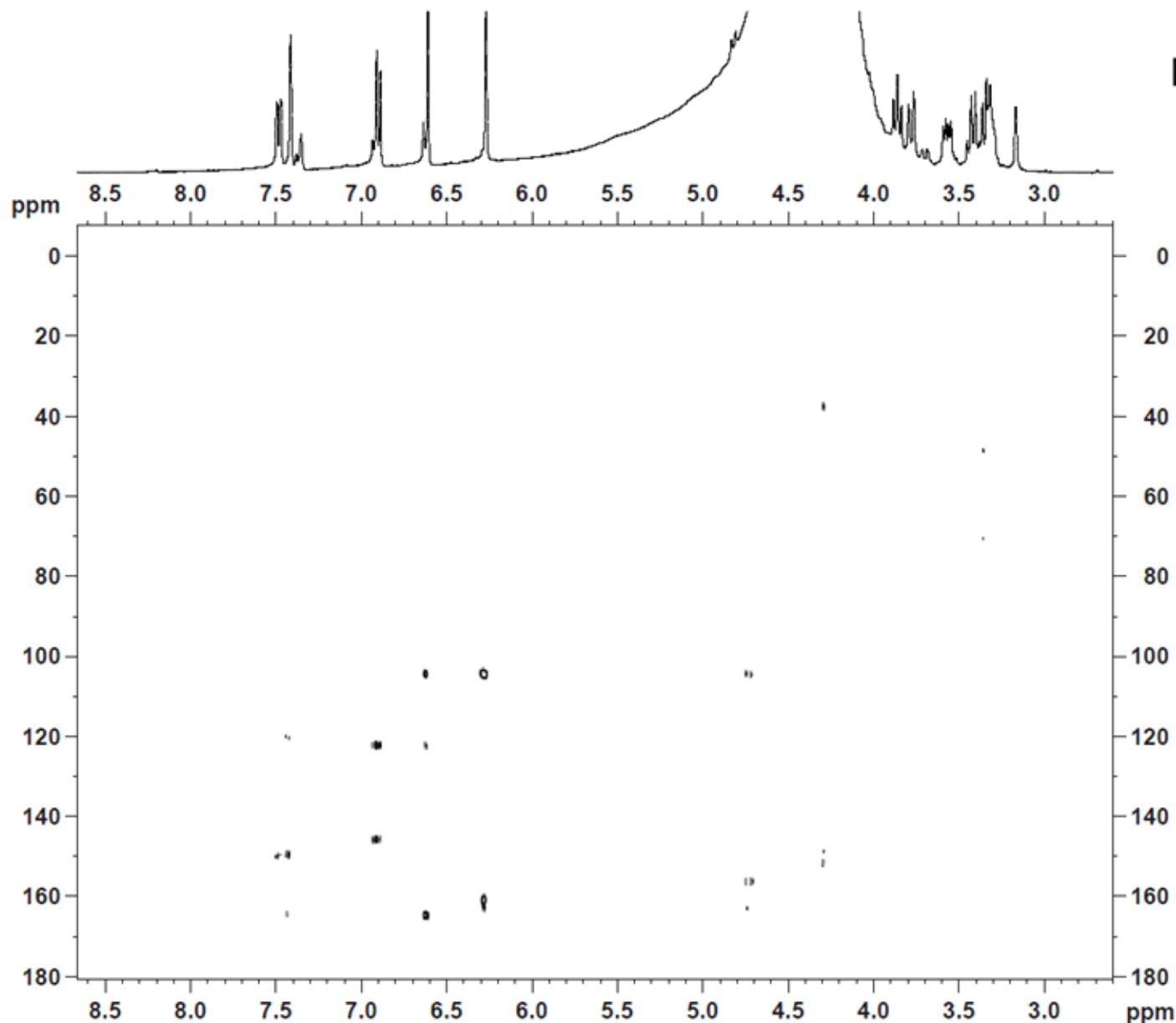
----- GRADIENT CHANNEL -----
GPMAM1 SMDQ10.100
GPMAM2 SMDQ10.100
GPMAM3 SMDQ10.100
GPMAM4 SMDQ10.100
GPZ1 80.00 %
GPZ2 20.10 %
GPZ3 11.00 %
GPZ4 -5.00 %
P16 1000.00 usec
P19 600.00 usec

F1 - Acquisition parameters
TD 256
SFO1 100.6203 MHz
FIDRES 65.108414 Hz
SW 165.650 ppm
PRMDE Echo-Antiecho

F2 - Processing parameters
SI 1024
SF 400.1300000 MHz
MCW QSIHQ
SSB 2
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 echo-antiecho
SF 100.6127690 MHz
MCW H
SSB 2
LB 0 Hz
GB 0

5- HSQC full spectrum of orientin



Current Data Parameters
NAME HE-CM-2
EXPNO 34
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160612
Time 23.18
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG hmbcggplndgqf
TD 2048
SOLVENT DMSO
NS 8
DS 16
SWH 2427.185 Hz
FIDRES 1.185149 Hz
AQ 0.4219380 sec
RG 189.35
DW 206.000 usec
DE 6.50 usec
TE 297.9 K
CNS12 145.0000000
CNS13 10.0000000
D0 0.00000300 sec
D1 1.27471995 sec
D2 0.00344828 sec
D6 0.05000000 sec
D16 0.00020000 sec
IN0 0.00002235 sec

----- CHANNEL f1 -----
NUC1 1H
P1 15.00 usec
P2 30.00 usec
PLW1 9.60000038 W
SFO1 400.1322521 MHz

----- CHANNEL f2 -----
NUC2 13C
P3 10.00 usec
PLW2 54.00000000 W
SFO2 100.6228133 MHz

----- GRADIENT CHANNEL -----
GPHAM1 SMSQ10.100
GPHAM2 SMSQ10.100
GPHAM3 SMSQ10.100
GPZ1 50.00 %
GPZ2 30.00 %
GPZ3 40.10 %
P16 1000.00 usec

F1 - Acquisition parameters
TD 128
SFO1 100.6228 MHz
FIDRES 174.592422 Hz
SW 222.095 ppm
PnMODE QP

F2 - Processing parameters
SI 2048
SF 400.1300000 MHz
WDW SINE
SSB 0
LB 0 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
PC QP
SF 100.6127690 MHz
WDW 0
SSB 0 Hz
LB 0
GB 0

6- HMBC full spectrum of orientin