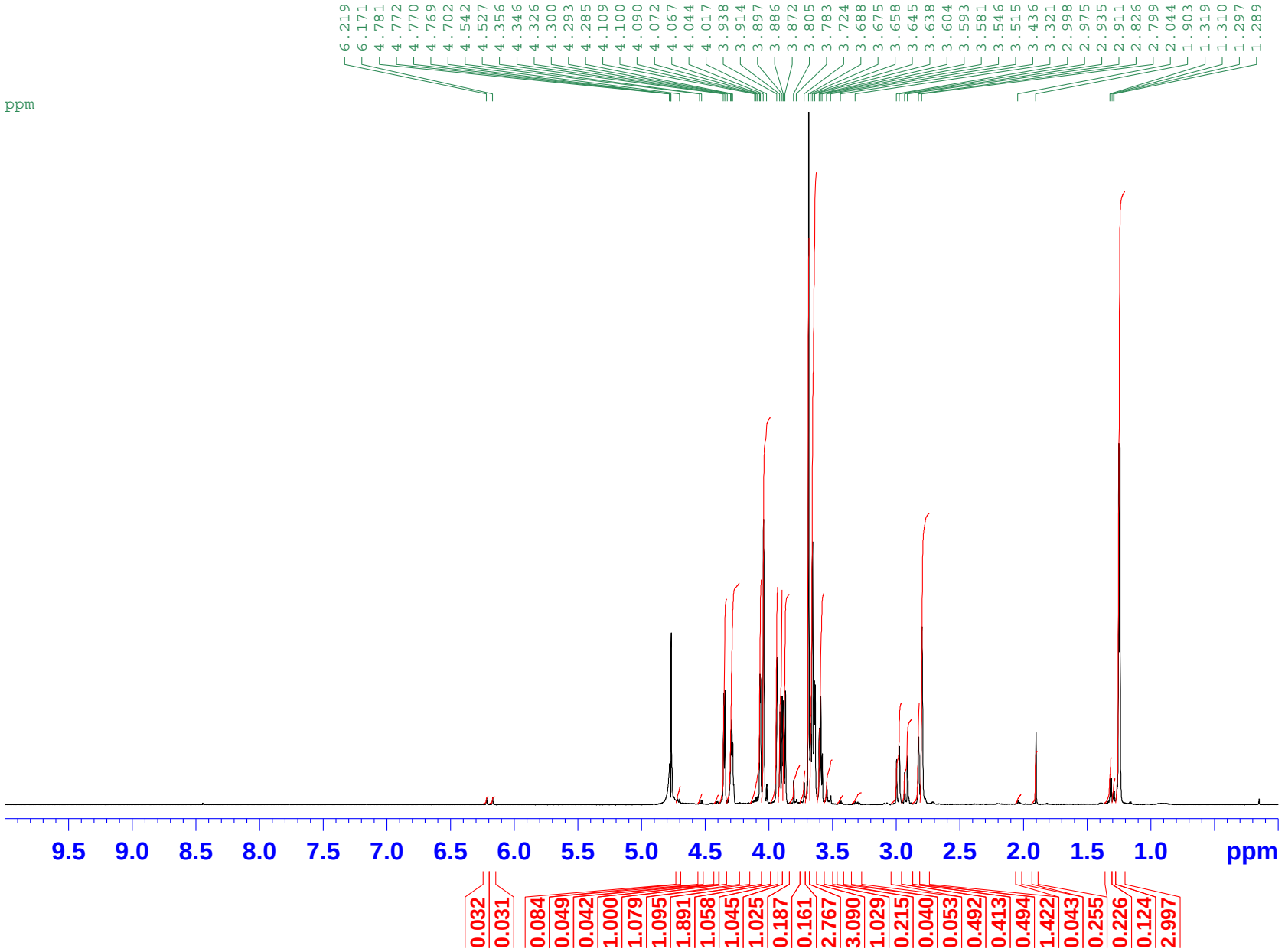
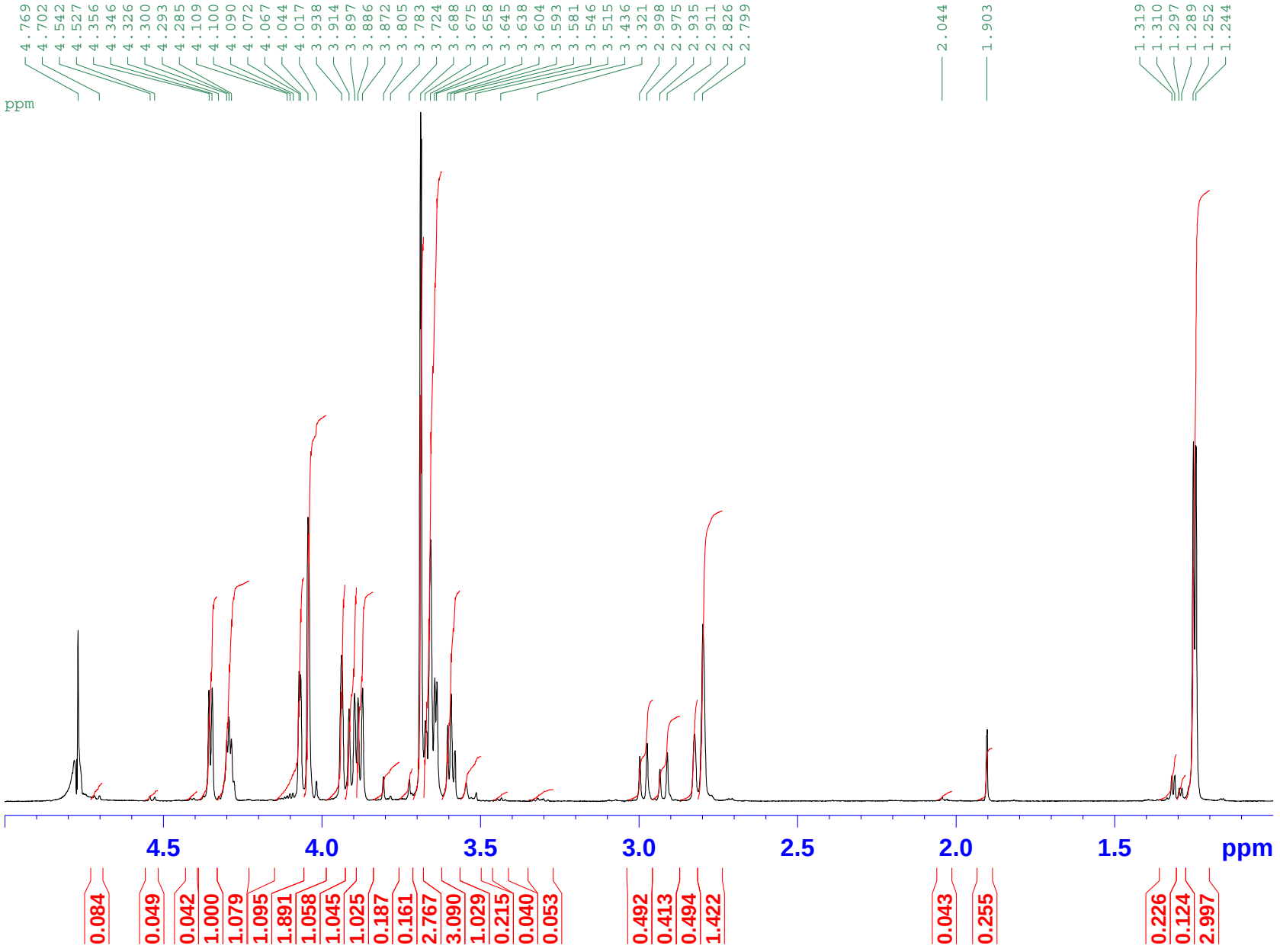
Novel glycosylated mycosporine-like amino acids with radical scavenging activity from the cyanobacterium Nostoc commune

sakamoto750_01.1.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H 1Pulse (zg0pr):CPTCI−Z
reference:external DSS=0 ppm



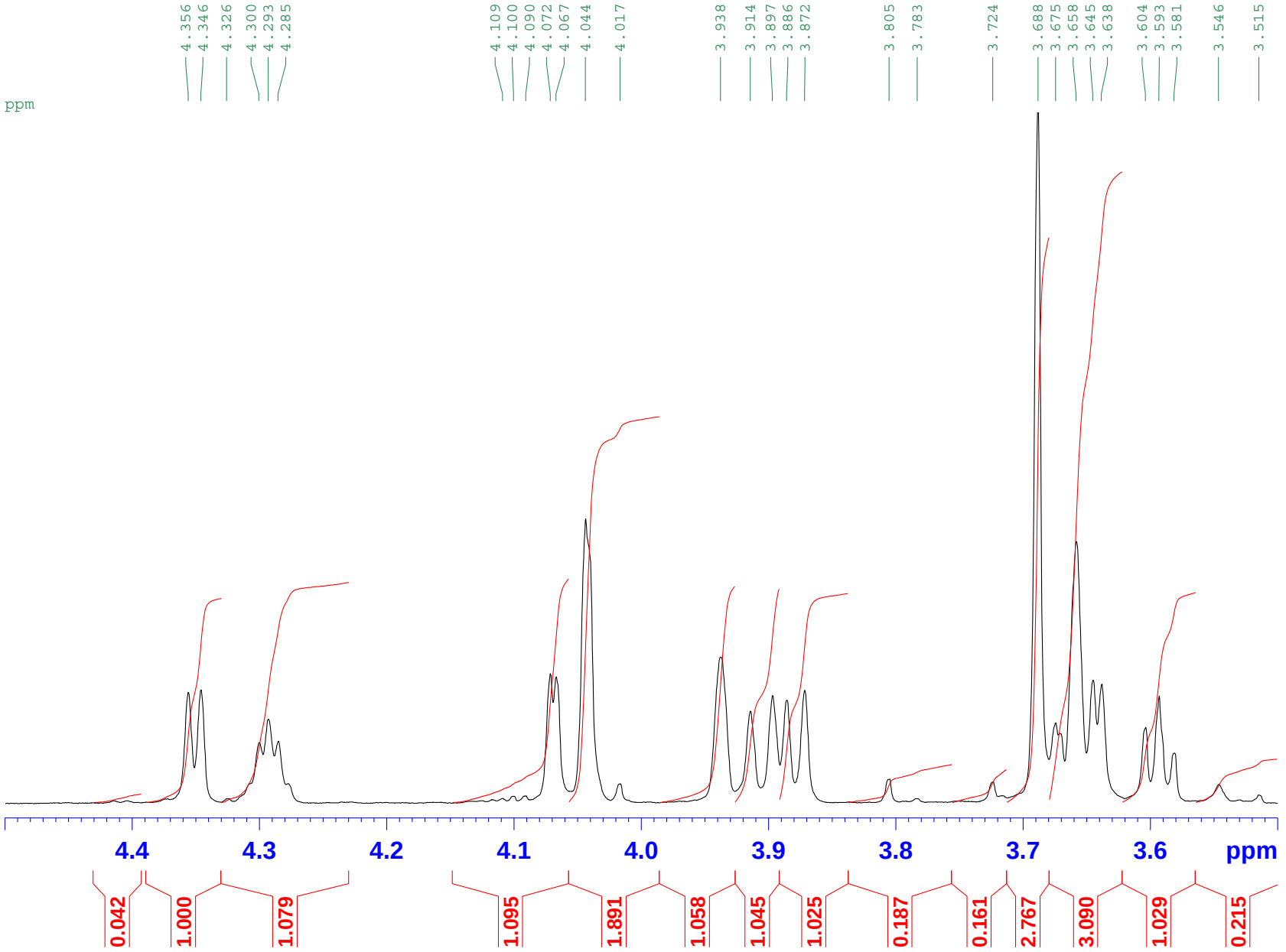

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                  1
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101025
Time               14.59
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG            zg0pr
TD                 65536
SOLVENT              D2O
NS                    16
DS                     4
SWH            11261.262 Hz
FIDRES          0.171833 Hz
AQ             2.9098485 sec
RG                   128
DW                44.400 usec
DE                 6.00 usec
TE                300.6 K
D1           2.00000000 sec
d12          0.00002000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P0                 3.96 usec
PL1               -3.00 dB
PL9                65.00 dB
SFO1         750.1335267 MHz

F2 - Processing parameters
SI                 32768
SF           750.1299484 MHz
WDW                   EM
SSB                    0
LB                 0.30 Hz
GB                     0
PC                 1.00
```

sakamoto750_01.1.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H 1Pulse (zg0pr):CPTCI−Z
reference:external DSS=0 ppm



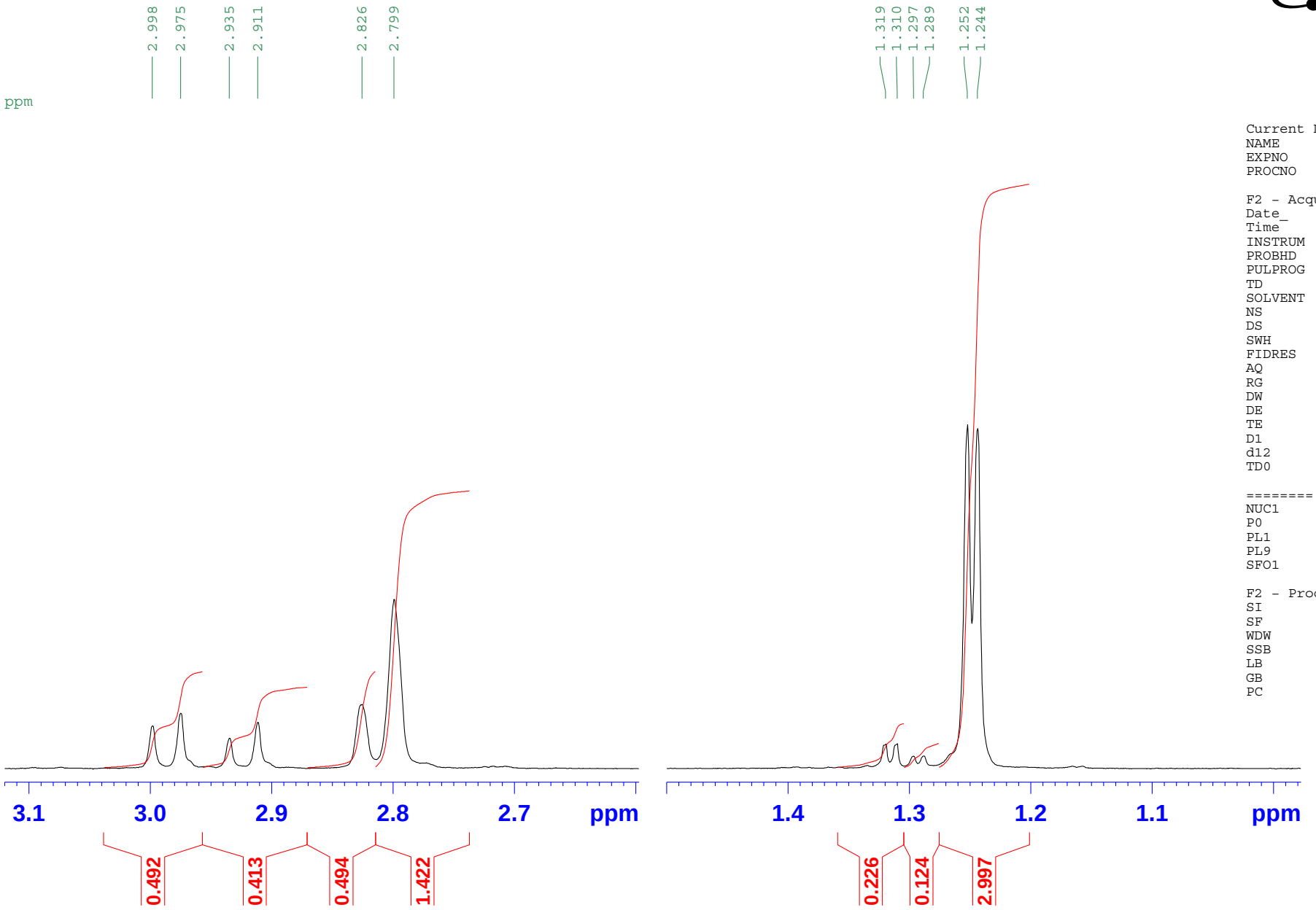

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                  1
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101025
Time               14.59
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG            zg0pr
TD                 65536
SOLVENT              D2O
NS                    16
DS                     4
SWH            11261.262 Hz
FIDRES          0.171833 Hz
AQ             2.9098485 sec
RG                   128
DW                44.400 usec
DE                 6.00 usec
TE                300.6 K
D1           2.00000000 sec
d12          0.00002000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P0                 3.96 usec
PL1               -3.00 dB
PL9               65.00 dB
SFO1        750.1335267 MHz

F2 - Processing parameters
SI                 32768
SF          750.1299484 MHz
WDW                   EM
SSB                    0
LB                0.30 Hz
GB                     0
PC                1.00
```

sakamoto750_01.1.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H 1Pulse (zg0pr):CPTCI−Z
reference:external DSS=0 ppm



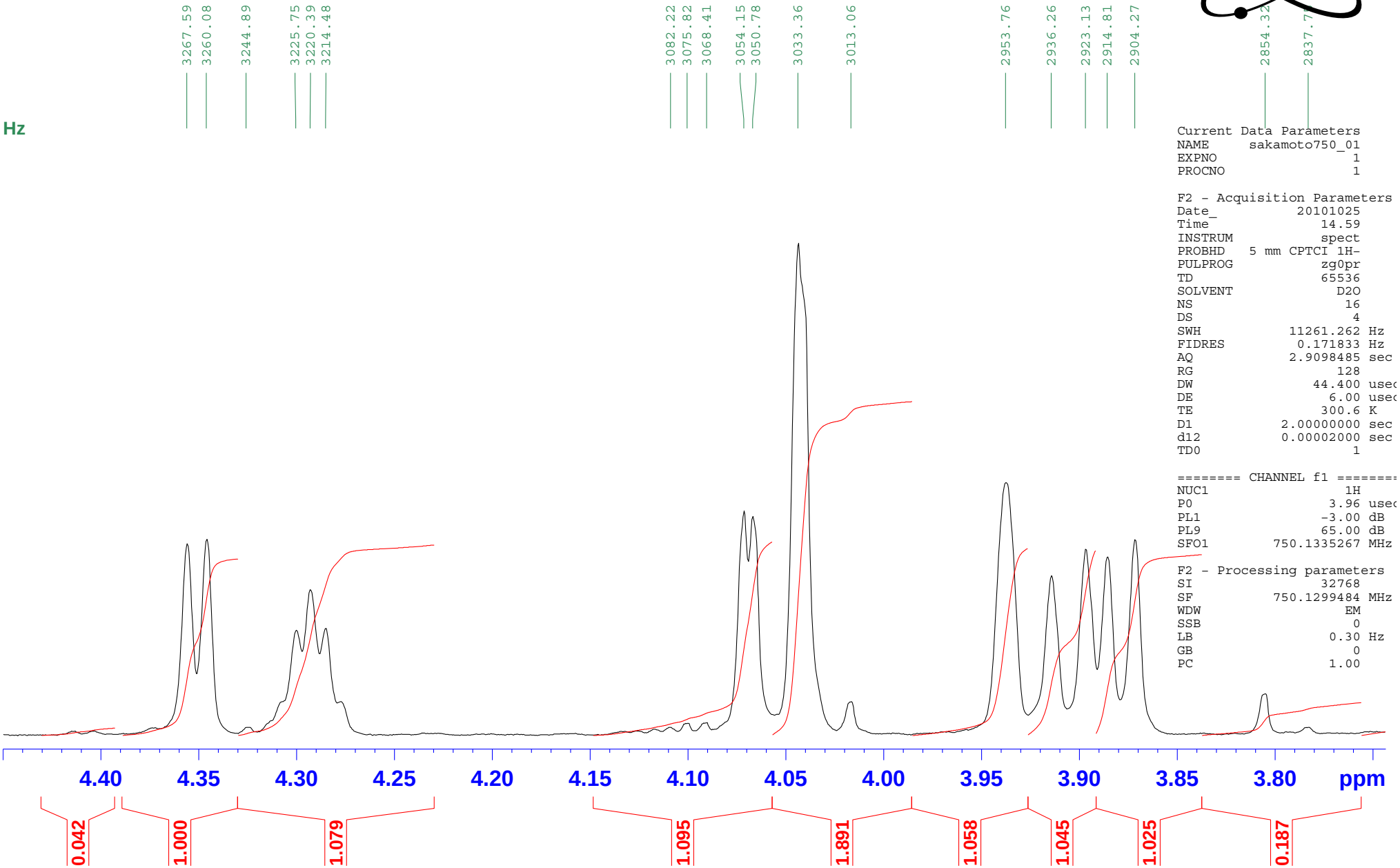

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                  1
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101025
Time               14.59
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG            zg0pr
TD                 65536
SOLVENT              D2O
NS                    16
DS                     4
SWH            11261.262 Hz
FIDRES          0.171833 Hz
AQ             2.9098485 sec
RG                   128
DW                44.400 usec
DE                 6.00 usec
TE                300.6 K
D1           2.00000000 sec
d12          0.00002000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P0                 3.96 usec
PL1               -3.00 dB
PL9               65.00 dB
SFO1         750.1335267 MHz

F2 - Processing parameters
SI                 32768
SF           750.1299484 MHz
WDW                   EM
SSB                    0
LB                  0.30 Hz
GB                     0
PC                  1.00
```

sakamoto750_01.1.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H 1Pulse (zg0pr):CPTCI−Z
reference:external DSS=0 ppm



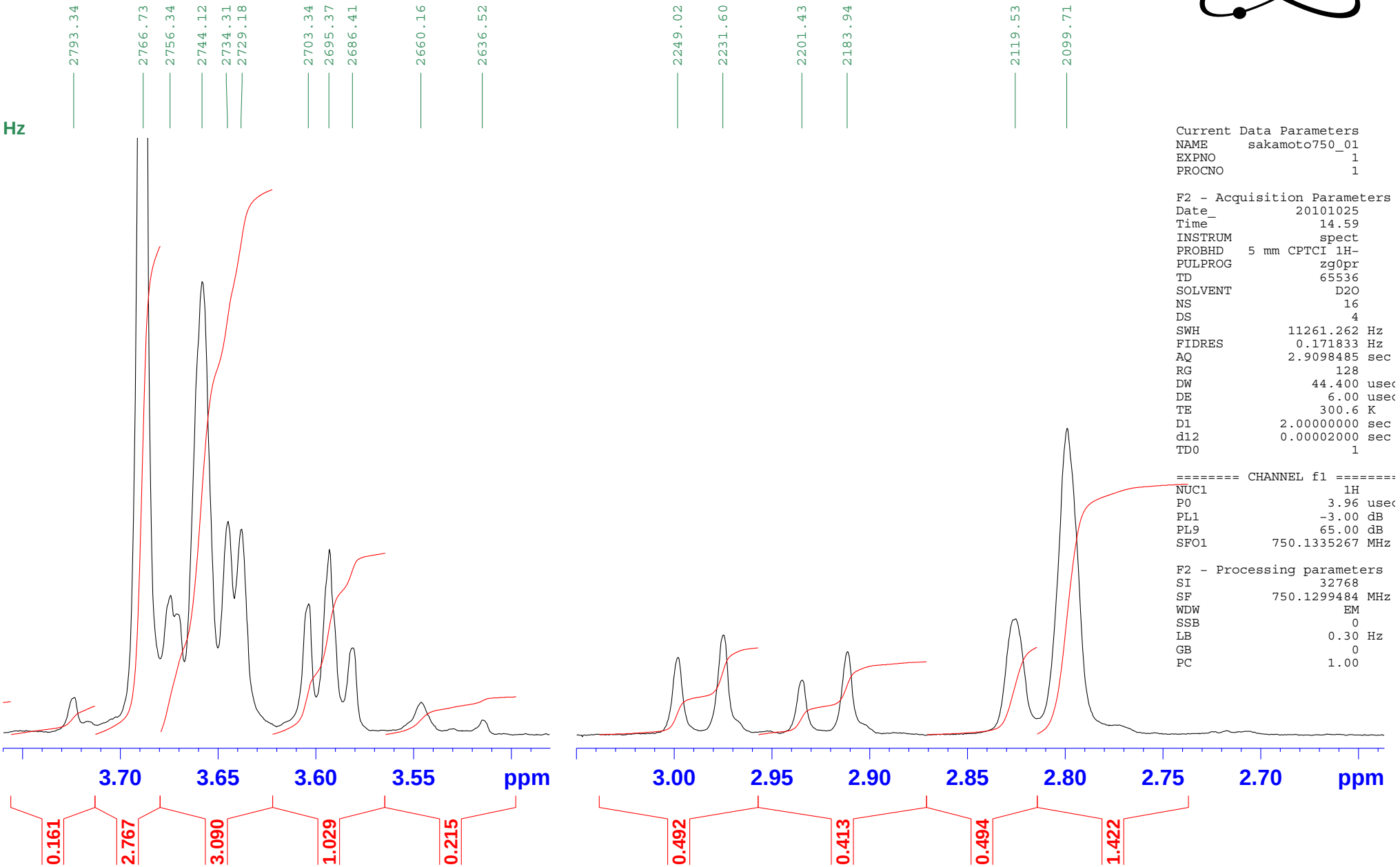

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                  1
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101025
Time               14.59
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG            zg0pr
TD                 65536
SOLVENT              D2O
NS                    16
DS                     4
SWH            11261.262 Hz
FIDRES          0.171833 Hz
AQ             2.9098485 sec
RG                   128
DW                44.400 usec
DE                 6.00 usec
TE                300.6 K
D1            2.00000000 sec
d12           0.00002000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P0                 3.96 usec
PL1               -3.00 dB
PL9               65.00 dB
SFO1         750.1335267 MHz

F2 - Processing parameters
SI                 32768
SF           750.1299484 MHz
WDW                   EM
SSB                    0
LB                  0.30 Hz
GB                     0
PC                  1.00
```

sakamoto750_01.1.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H 1Pulse (zg0pr):CPTCI−Z
reference:external DSS=0 ppm



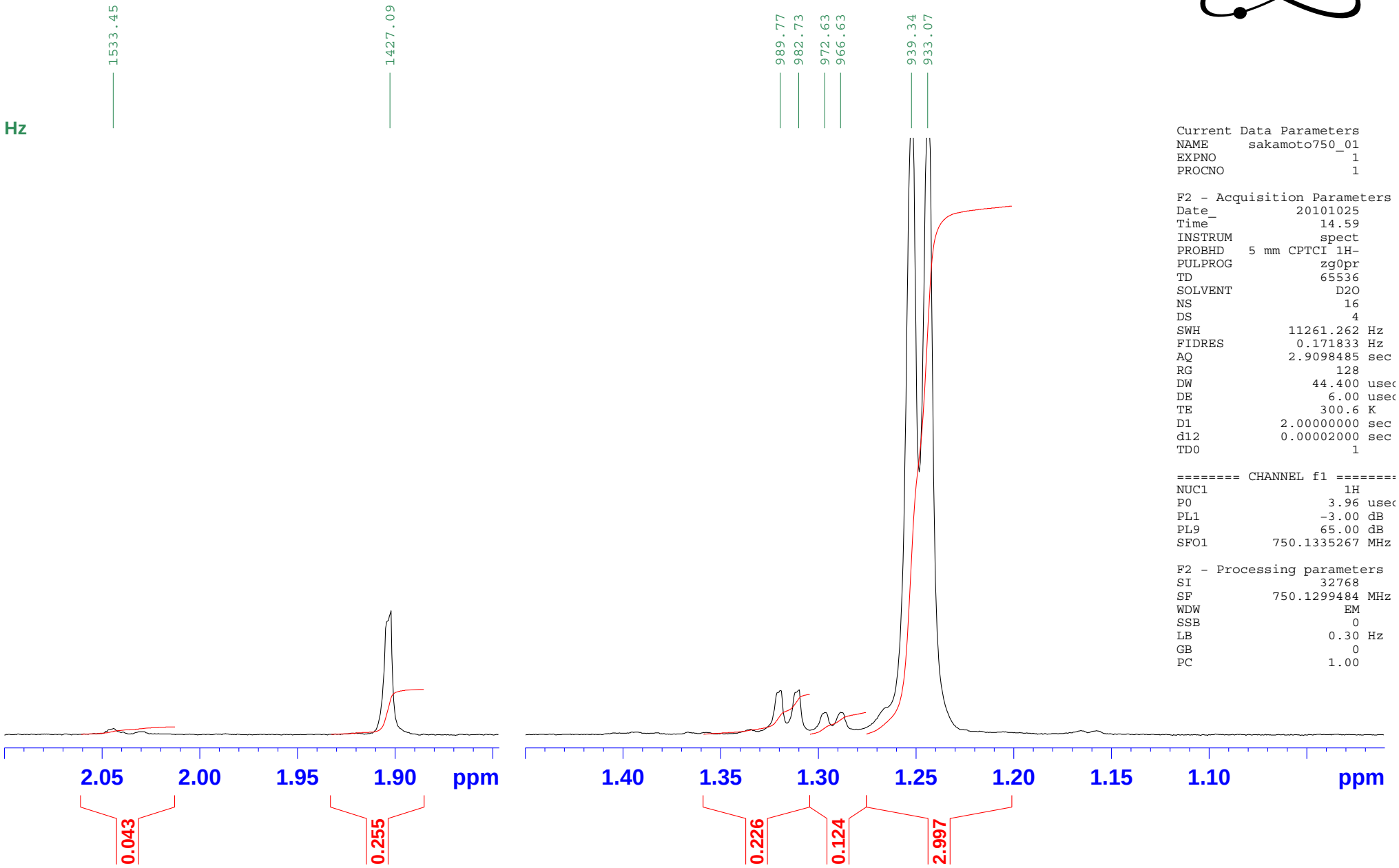

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                  1
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101025
Time               14.59
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG            zg0pr
TD                 65536
SOLVENT              D2O
NS                    16
DS                     4
SWH            11261.262 Hz
FIDRES          0.171833 Hz
AQ             2.9098485 sec
RG                   128
DW                44.400 usec
DE                 6.00 usec
TE                300.6 K
D1           2.00000000 sec
d12          0.00002000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P0                 3.96 usec
PL1               -3.00 dB
PL9               65.00 dB
SFO1         750.1335267 MHz

F2 - Processing parameters
SI                 32768
SF           750.1299484 MHz
WDW                   EM
SSB                    0
LB                  0.30 Hz
GB                     0
PC                  1.00
```

sakamoto750_01.1.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H 1Pulse (zg0pr):CPTCI−Z
reference:external DSS=0 ppm



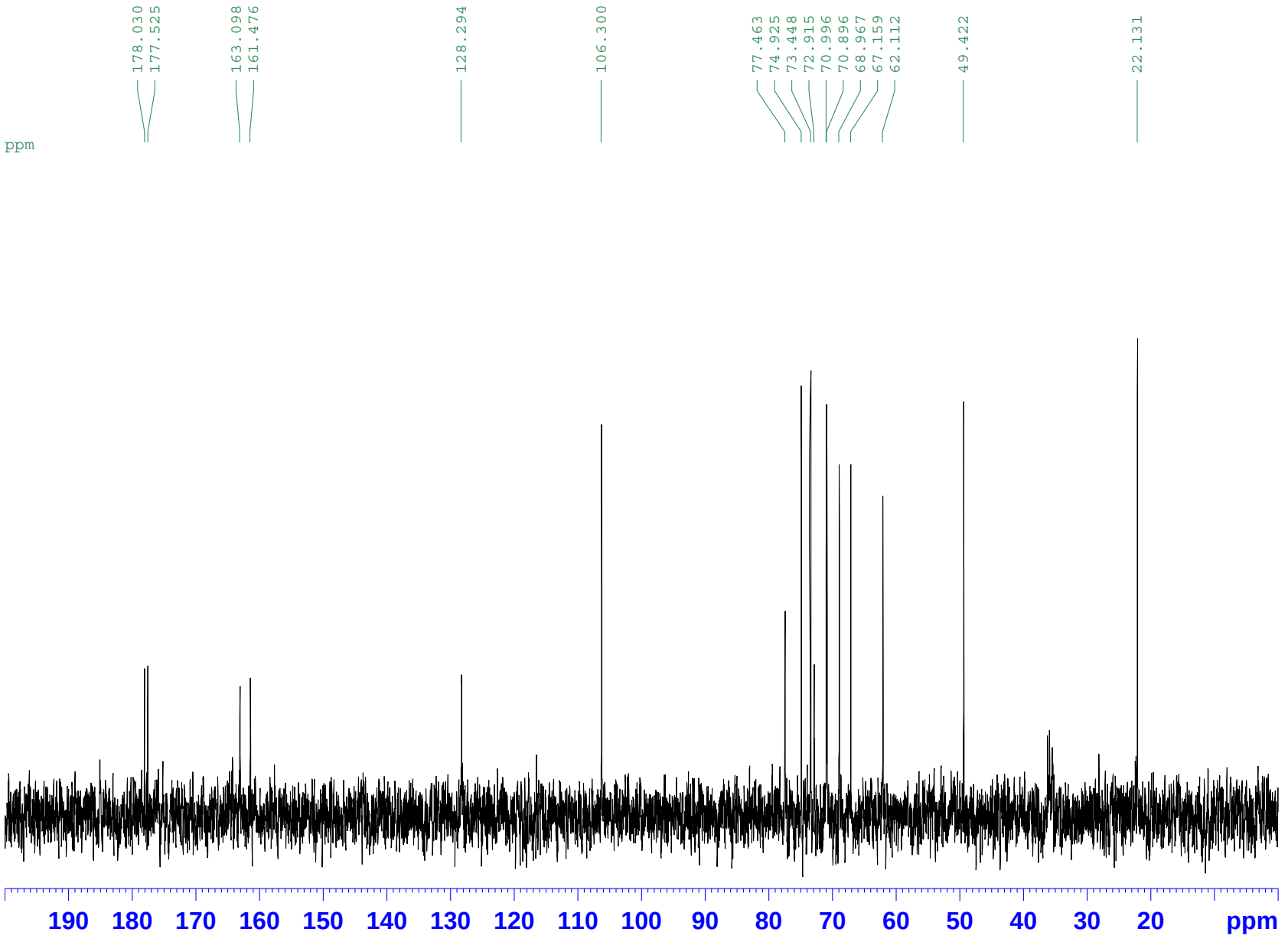

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                  1
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101025
Time               14.59
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG            zg0pr
TD                 65536
SOLVENT              D2O
NS                    16
DS                     4
SWH           11261.262 Hz
FIDRES         0.171833 Hz
AQ            2.9098485 sec
RG                   128
DW                44.400 usec
DE                 6.00 usec
TE                300.6 K
D1           2.00000000 sec
d12          0.00002000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P0                 3.96 usec
PL1               -3.00 dB
PL9                65.00 dB
SFO1         750.1335267 MHz

F2 - Processing parameters
SI                 32768
SF           750.1299484 MHz
WDW                   EM
SSB                    0
LB                  0.30 Hz
GB                     0
PC                  1.00
```

sakamoto750_01.1.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H 1Pulse (zg0pr):CPTCI−Z
reference:external DSS=0 ppm



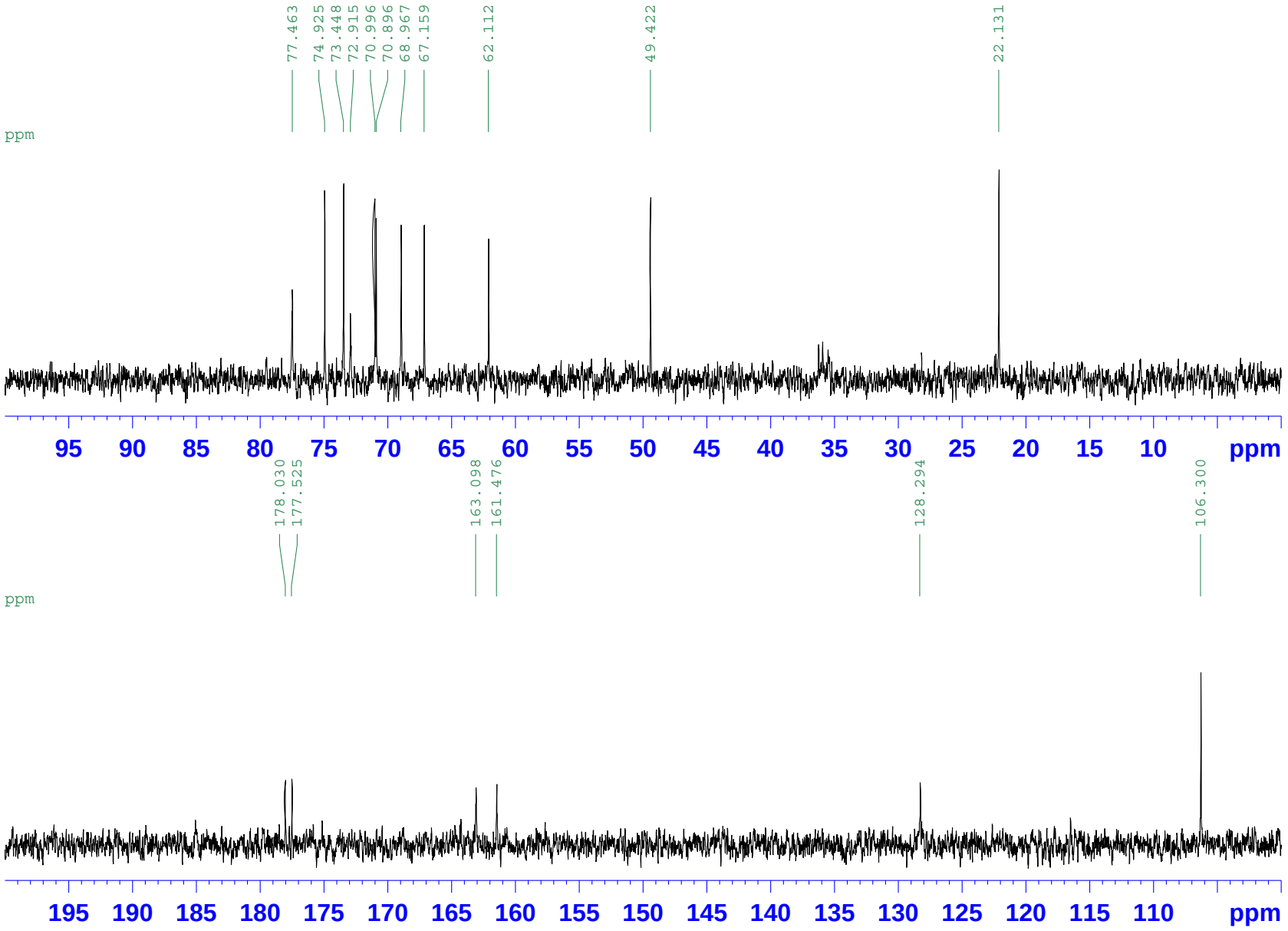

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                  1
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101025
Time               14.59
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG            zg0pr
TD                 65536
SOLVENT              D2O
NS                    16
DS                     4
SWH            11261.262 Hz
FIDRES          0.171833 Hz
AQ             2.9098485 sec
RG                   128
DW                44.400 usec
DE                 6.00 usec
TE                300.6 K
D1           2.00000000 sec
d12          0.00002000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P0                 3.96 usec
PL1               -3.00 dB
PL9               65.00 dB
SFO1        750.1335267 MHz

F2 - Processing parameters
SI                 32768
SF          750.1299484 MHz
WDW                   EM
SSB                    0
LB                0.30 Hz
GB                     0
PC                1.00
```

sakamoto750_01.1000.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
13C{1H} 1Pulse with CPD (zgpg30):CPTCI−Z
reference:external DSS=0 ppm



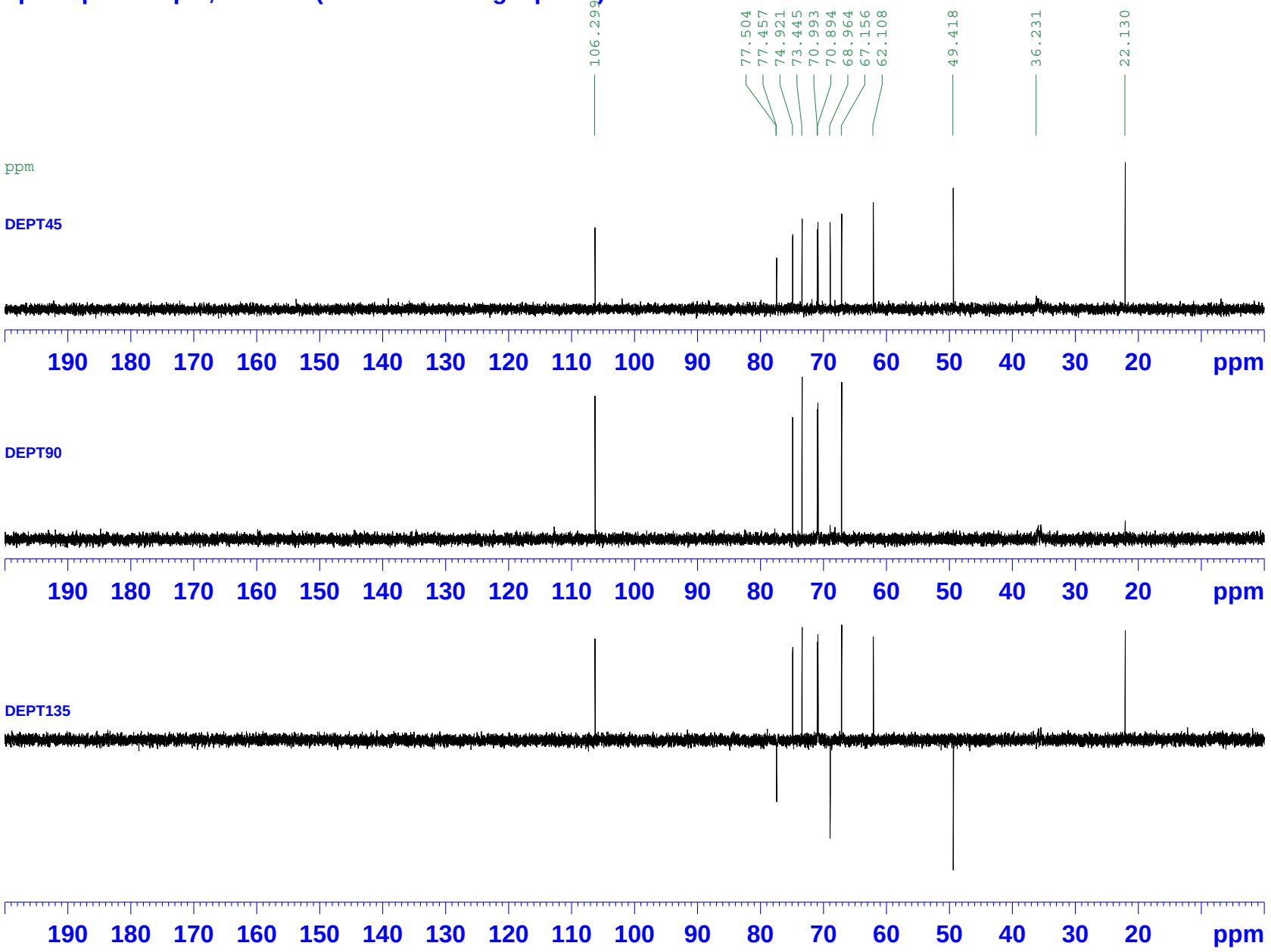

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               1000
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101026
Time                1.53
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG           zgpg30
TD                 65536
SOLVENT              D2O
NS                  4096
DS                     4
SWH           45045.047 Hz
FIDRES         0.687333 Hz
AQ            0.7274996 sec
RG                 16384
DW                11.100 usec
DE                 6.00 usec
TE                300.6 K
D1           0.30000001 sec
d11          0.03000000 sec
DELTA        0.20000002 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                13C
P1                15.20 usec
PL1               -4.90 dB
SFO1        188.6410872 MHz

======== CHANNEL f2 ========
CPDPRG2           garp4
NUC2                1H
PCPD2             100.00 usec
PL2               120.00 dB
PL12               16.45 dB
PL13               16.45 dB
SFO2        750.1339007 MHz

F2 - Processing parameters
SI                 32768
SF          188.6198149 MHz
WDW                   EM
SSB                    0
LB                  5.00 Hz
GB                     0
PC                  2.00
```

sakamoto750_01.1000.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
13C{1H} 1Pulse with CPD (zgpg30):CPTCI−Z
reference:external DSS=0 ppm



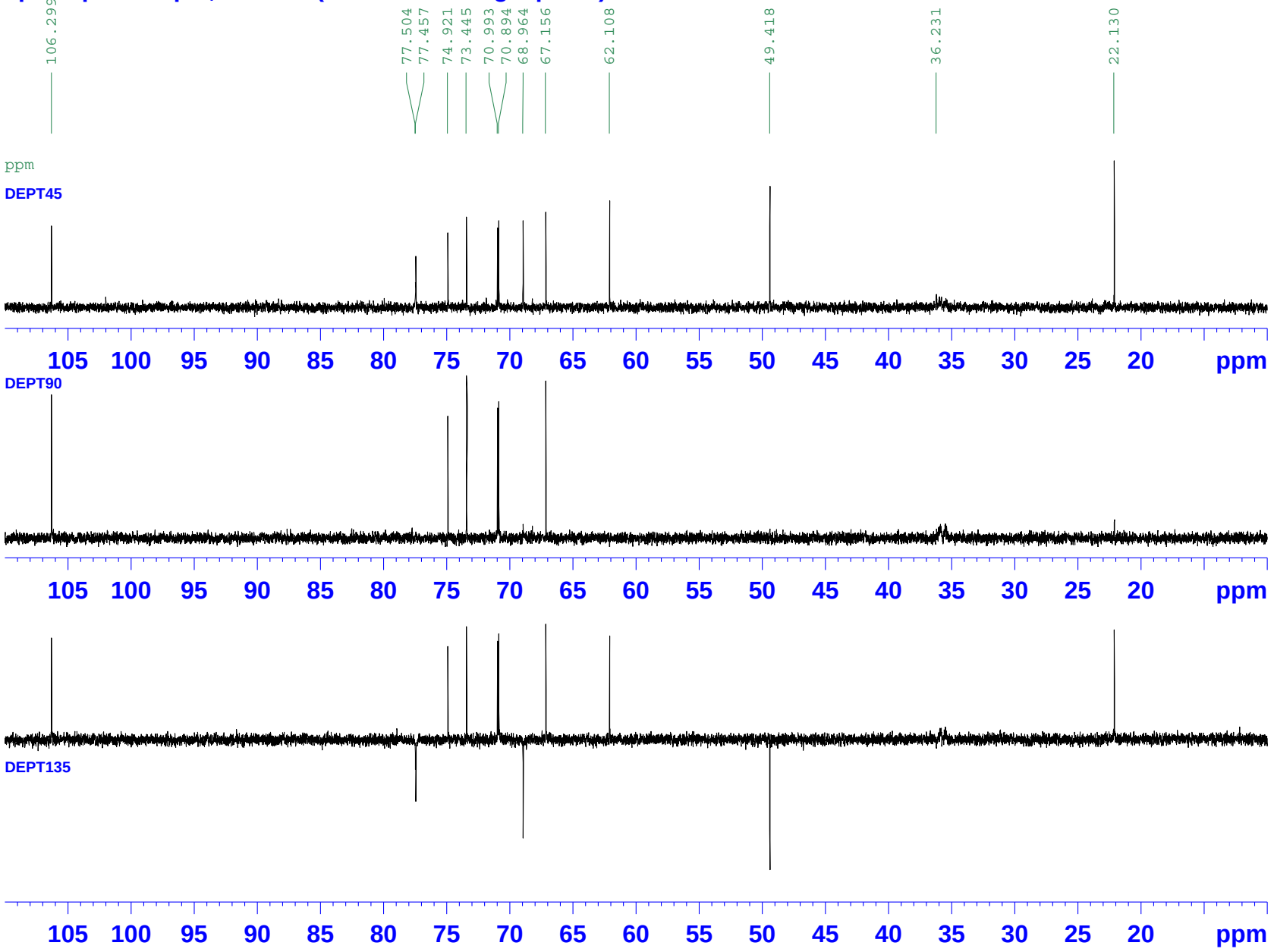

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               1000
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101026
Time                1.53
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG           zgpg30
TD                 65536
SOLVENT              D2O
NS                  4096
DS                     4
SWH          45045.047 Hz
FIDRES        0.687333 Hz
AQ            0.7274996 sec
RG                 16384
DW                11.100 usec
DE                 6.00 usec
TE                300.6 K
D1           0.30000001 sec
d11          0.03000000 sec
DELTA        0.20000002 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                13C
P1                15.20 usec
PL1               -4.90 dB
SFO1        188.6410872 MHz

======== CHANNEL f2 ========
CPDPRG2           garp4
NUC2                1H
PCPD2          100.00 usec
PL2            120.00 dB
PL12            16.45 dB
PL13            16.45 dB
SFO2        750.1339007 MHz

F2 - Processing parameters
SI                 32768
SF          188.6198149 MHz
WDW                   EM
SSB                    0
LB                  5.00 Hz
GB                     0
PC                  2.00
```

sakamoto750_01.1001.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
13C{1H} DEPT45 (deptsp45):CPTCI−Z
sp2:Crp80comp.4, −1.70dB(=22.2us rectangle pulse)



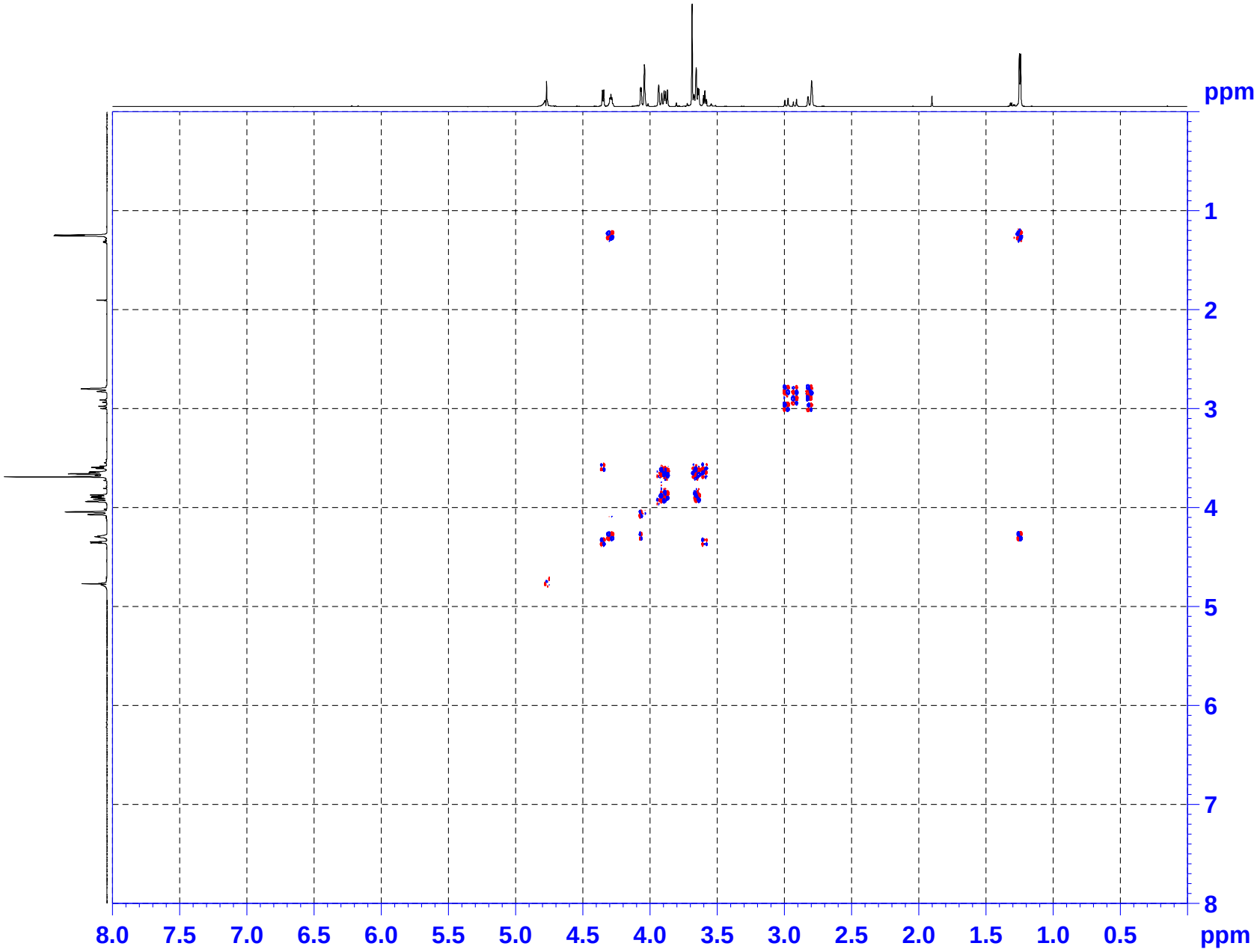

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO              1001
PROCNO                1

F2 - Acquisition Parameters
Date_          20101026
Time               3.28
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG        deptsp45
TD                65536
SOLVENT             D2O
NS                 2048
DS                    4
SWH           45045.047 Hz
FIDRES         0.687333 Hz
AQ            0.7274996 sec
RG                32768
DW               11.100 usec
DE                6.00 usec
TE               300.6 K
CNST2        145.0000000
D1            2.00000000 sec
d2            0.00344828 sec
d12           0.00002000 sec
DELTA         0.00001935 sec
TD0                   1

======== CHANNEL f1 ========
NUC1                 13C
P1                15.20 usec
P12             2000.00 usec
PL0              120.00 dB
PL1               -4.90 dB
SFO1         188.6410872 MHz
SP2               -1.65 dB
SPNAM2       Crp80comp.4
SPOAL2             0.500
SPOFFS2             0.00 Hz

======== CHANNEL f2 ========
CPDPRG2             garp4
NUC2                  1H
P3                12.00 usec
p4                24.00 usec
PCPD2            100.00 usec
PL2               -3.00 dB
PL12              16.45 dB
SFO2         750.1339007 MHz

F2 - Processing parameters
SI                32768
SF           188.6198149 MHz
WDW                  EM
SSB                   0
LB                 1.00 Hz
GB                    0
PC                 1.40
```

sakamoto750_01.1001.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
13C{1H} DEPT45 (deptsp45):CPTCI−Z
sp2:Crp80comp.4, −1.70dB(=22.2us rectangle pulse)



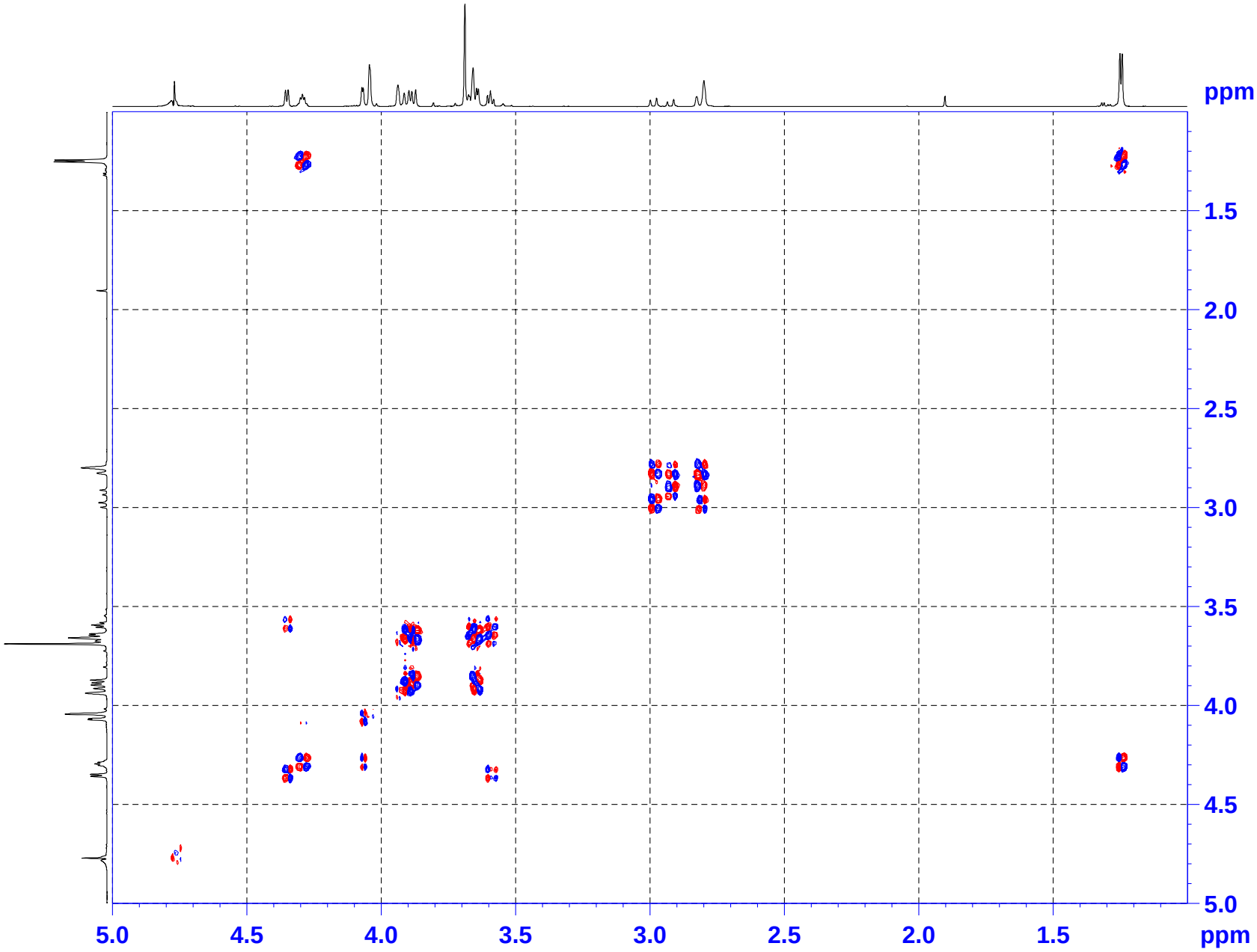

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO              1001
PROCNO                1

F2 - Acquisition Parameters
Date_          20101026
Time               3.28
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG        deptsp45
TD                65536
SOLVENT             D2O
NS                 2048
DS                    4
SWH           45045.047 Hz
FIDRES         0.687333 Hz
AQ            0.7274996 sec
RG                32768
DW               11.100 usec
DE                6.00 usec
TE               300.6 K
CNST2        145.0000000
D1            2.00000000 sec
d2            0.00344828 sec
d12           0.00002000 sec
DELTA         0.00001935 sec
TD0                   1

======== CHANNEL f1 ========
NUC1                 13C
P1                15.20 usec
P12             2000.00 usec
PL0              120.00 dB
PL1               -4.90 dB
SFO1         188.6410872 MHz
SP2               -1.65 dB
SPNAM2       Crp80comp.4
SPOAL2             0.500
SPOFFS2             0.00 Hz

======== CHANNEL f2 ========
CPDPRG2             garp4
NUC2                  1H
P3                12.00 usec
p4                24.00 usec
PCPD2             100.00 usec
PL2               -3.00 dB
PL12              16.45 dB
SFO2         750.1339007 MHz

F2 - Processing parameters
SI                32768
SF           188.6198149 MHz
WDW                  EM
SSB                   0
LB                 1.00 Hz
GB                    0
PC                 1.40
```

sakamoto750_01.101.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H DQF−COSY (cosygpmfphpp.rak):CPTCI−Z



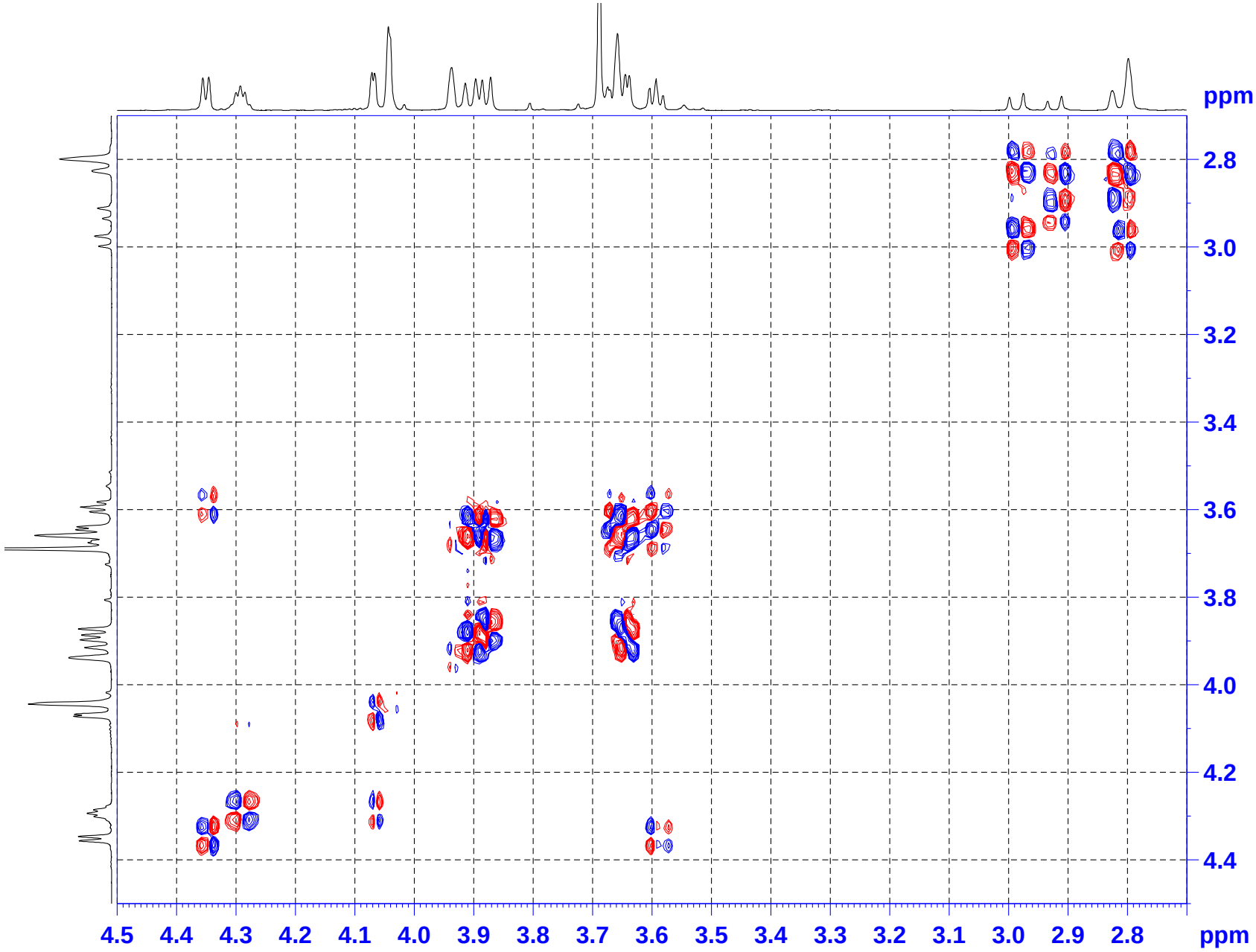

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO              101
PROCNO               1

F2 - Acquisition Parameters
Date_          20101025
Time             16.05
INSTRUM          spect
PROBHD   5 mm CPTCI 1H-
PULPROG  cosygpmfphpp.rak
TD               2048
SOLVENT           D2O
NS                  8
DS                 16
SWH          7645.260 Hz
FIDRES       3.733037 Hz
AQ           0.1339892 sec
RG                8192
DW              65.400 usec
DE               6.00 usec
TE              300.6 K
d0           0.00005012 sec
D1           2.00000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
D16          0.00020000 sec
d20          0.00120400 sec
IN0          0.00013080 sec
ST1CNT            128

======== CHANNEL f1 ========
NUC1               1H
P1              12.00 usec
p2              24.00 usec
P17          10000.00 usec
PL1             -3.00 dB
PL10             9.00 dB
SFO1       750.1335267 MHz

====== GRADIENT CHANNEL =====
GPNAM1        SINE.100
GPNAM2        SINE.100
GPZ1             10.00 %
GPZ2             20.00 %
P16            1000.00 usec

F1 - Acquisition parameters
ND0                 1
TD                256
SFO1        750.1335 MHz
FIDRES      29.864296 Hz
SW            10.192 ppm
FnMODE     States-TPPI

F2 - Processing parameters
SI                1024
SF          750.1299484 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2        States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
```

sakamoto750_01.101.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H DQF−COSY (cosygpmfphpp.rak):CPTCI−Z



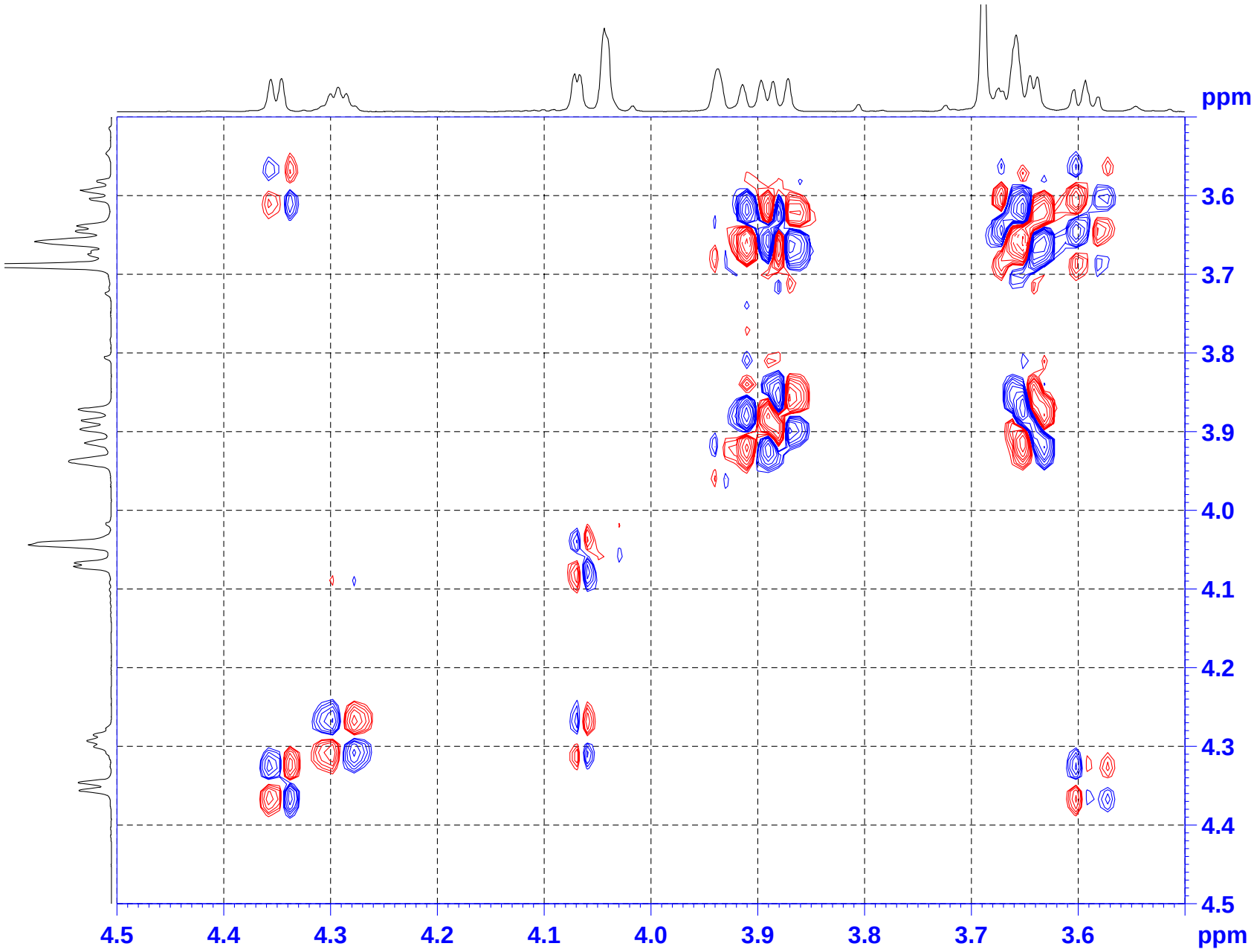

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               101
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              16.05
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG  cosygpmfphpp.rak
TD                2048
SOLVENT            D2O
NS                   8
DS                  16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                8192
DW              65.400 usec
DE               6.00 usec
TE              300.6 K
d0          0.00005012 sec
D1          2.00000000 sec
d11         0.03000000 sec
d12         0.00002000 sec
d13         0.00000400 sec
D16         0.00020000 sec
d20         0.00120400 sec
IN0         0.00013080 sec
ST1CNT             128

======== CHANNEL f1 ========
NUC1                1H
P1              12.00 usec
p2              24.00 usec
P17          10000.00 usec
PL1             -3.00 dB
PL10             9.00 dB
SFO1       750.1335267 MHz

====== GRADIENT CHANNEL =====
GPNAM1         SINE.100
GPNAM2         SINE.100
GPZ1            10.00 %
GPZ2            20.00 %
P16           1000.00 usec

F1 - Acquisition parameters
ND0                  1
TD                 256
SFO1         750.1335 MHz
FIDRES      29.864296 Hz
SW            10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                1024
SF          750.1299484 MHz
WDW              QSINE
SSB                  2
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW              QSINE
SSB                  2
LB                0.00 Hz
GB                   0
```

sakamoto750_01.101.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H DQF−COSY (cosygpmfphpp.rak):CPTCI−Z



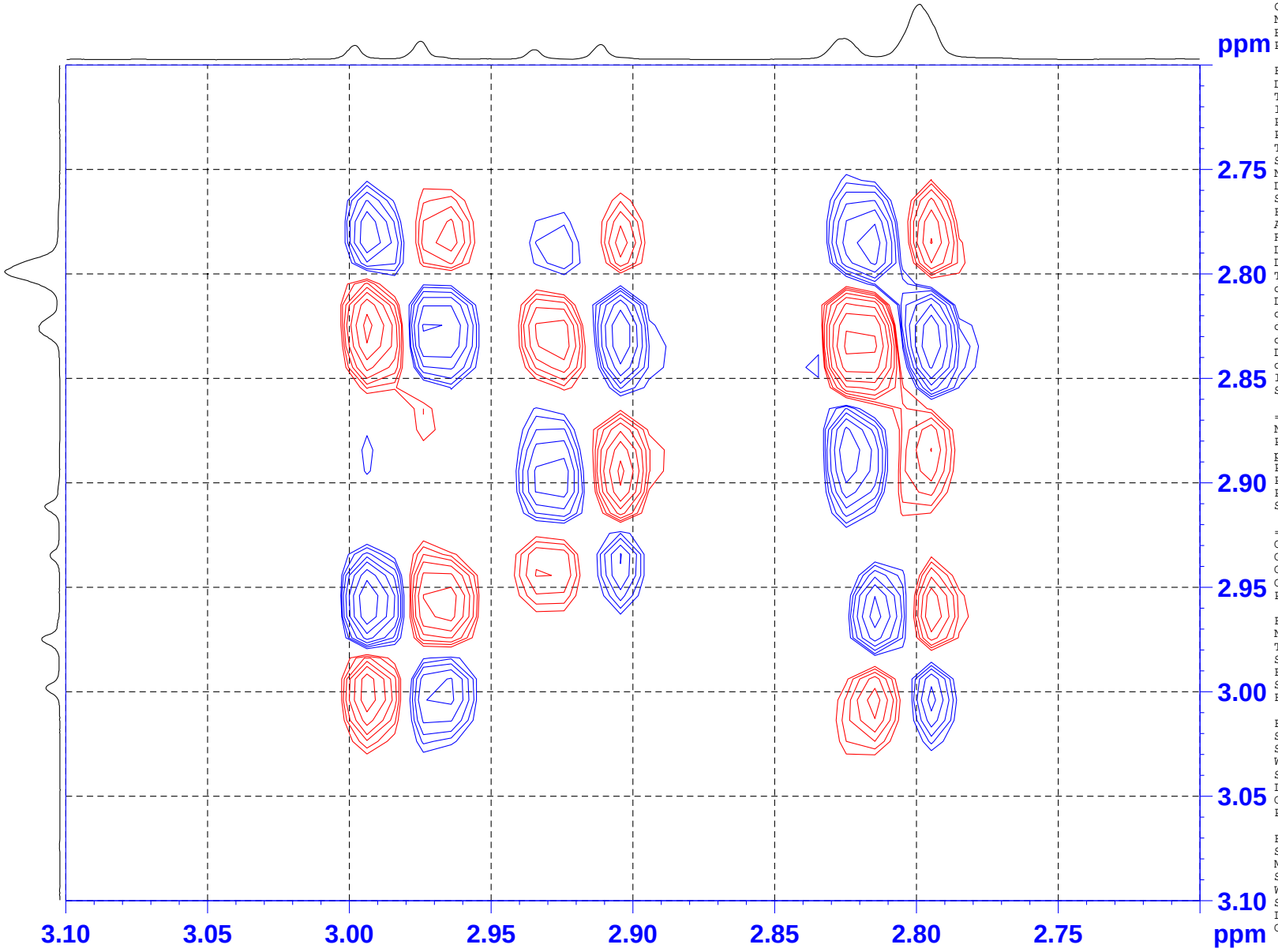

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO              101
PROCNO               1

F2 - Acquisition Parameters
Date_          20101025
Time             16.05
INSTRUM          spect
PROBHD   5 mm CPTCI 1H-
PULPROG  cosygpmfphpp.rak
TD               2048
SOLVENT           D2O
NS                  8
DS                 16
SWH          7645.260 Hz
FIDRES          3.733037 Hz
AQ           0.1339892 sec
RG                8192
DW              65.400 usec
DE               6.00 usec
TE              300.6 K
d0           0.00005012 sec
D1           2.00000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
D16          0.00020000 sec
d20          0.00120400 sec
IN0          0.00013080 sec
ST1CNT            128

======== CHANNEL f1 ========
NUC1               1H
P1              12.00 usec
p2              24.00 usec
P17          10000.00 usec
PL1             -3.00 dB
PL10             9.00 dB
SFO1       750.1335267 MHz

====== GRADIENT CHANNEL =====
GPNAM1        SINE.100
GPNAM2        SINE.100
GPZ1             10.00 %
GPZ2             20.00 %
P16            1000.00 usec

F1 - Acquisition parameters
ND0                1
TD               256
SFO1       750.1335 MHz
FIDRES      29.864296 Hz
SW            10.192 ppm
FnMODE     States-TPPI

F2 - Processing parameters
SI               1024
SF         750.1299484 MHz
WDW              QSINE
SSB                2
LB              0.00 Hz
GB                 0
PC              1.40

F1 - Processing parameters
SI               1024
MC2        States-TPPI
SF         750.1299484 MHz
WDW              QSINE
SSB                2
LB              0.00 Hz
GB                 0
```

sakamoto750_01.101.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H DQF−COSY (cosygpmfphpp.rak):CPTCI−Z



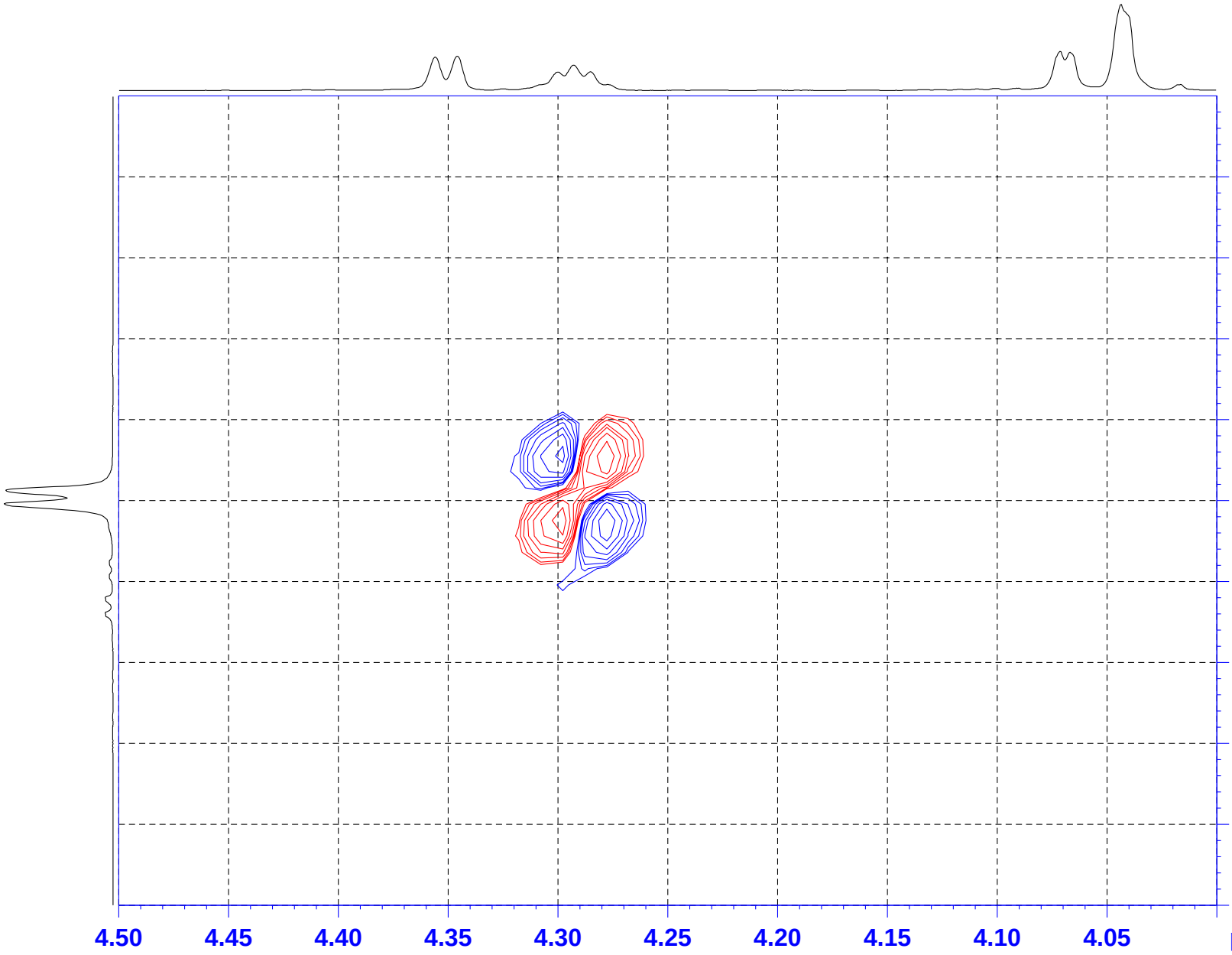

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO              101
PROCNO               1

F2 - Acquisition Parameters
Date_          20101025
Time             16.05
INSTRUM          spect
PROBHD   5 mm CPTCI 1H-
PULPROG  cosygpmfphpp.rak
TD               2048
SOLVENT           D2O
NS                  8
DS                 16
SWH          7645.260 Hz
FIDRES       3.733037 Hz
AQ           0.1339892 sec
RG                8192
DW              65.400 usec
DE               6.00 usec
TE              300.6 K
d0           0.00005012 sec
D1           2.00000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
D16          0.00020000 sec
d20          0.00120400 sec
IN0          0.00013080 sec
ST1CNT            128

======== CHANNEL f1 ========
NUC1               1H
P1              12.00 usec
p2              24.00 usec
P17          10000.00 usec
PL1             -3.00 dB
PL10             9.00 dB
SFO1       750.1335267 MHz

====== GRADIENT CHANNEL =====
GPNAM1        SINE.100
GPNAM2        SINE.100
GPZ1             10.00 %
GPZ2             20.00 %
P16            1000.00 usec

F1 - Acquisition parameters
ND0                1
TD               256
SFO1       750.1335 MHz
FIDRES      29.864296 Hz
SW            10.192 ppm
FnMODE     States-TPPI

F2 - Processing parameters
SI               1024
SF         750.1299484 MHz
WDW              QSINE
SSB                2
LB              0.00 Hz
GB                 0
PC              1.40

F1 - Processing parameters
SI               1024
MC2        States-TPPI
SF         750.1299484 MHz
WDW              QSINE
SSB                2
LB              0.00 Hz
GB                 0
```

sakamoto750_01.101.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H DQF−COSY (cosygpmfphpp.rak):CPTCI−Z



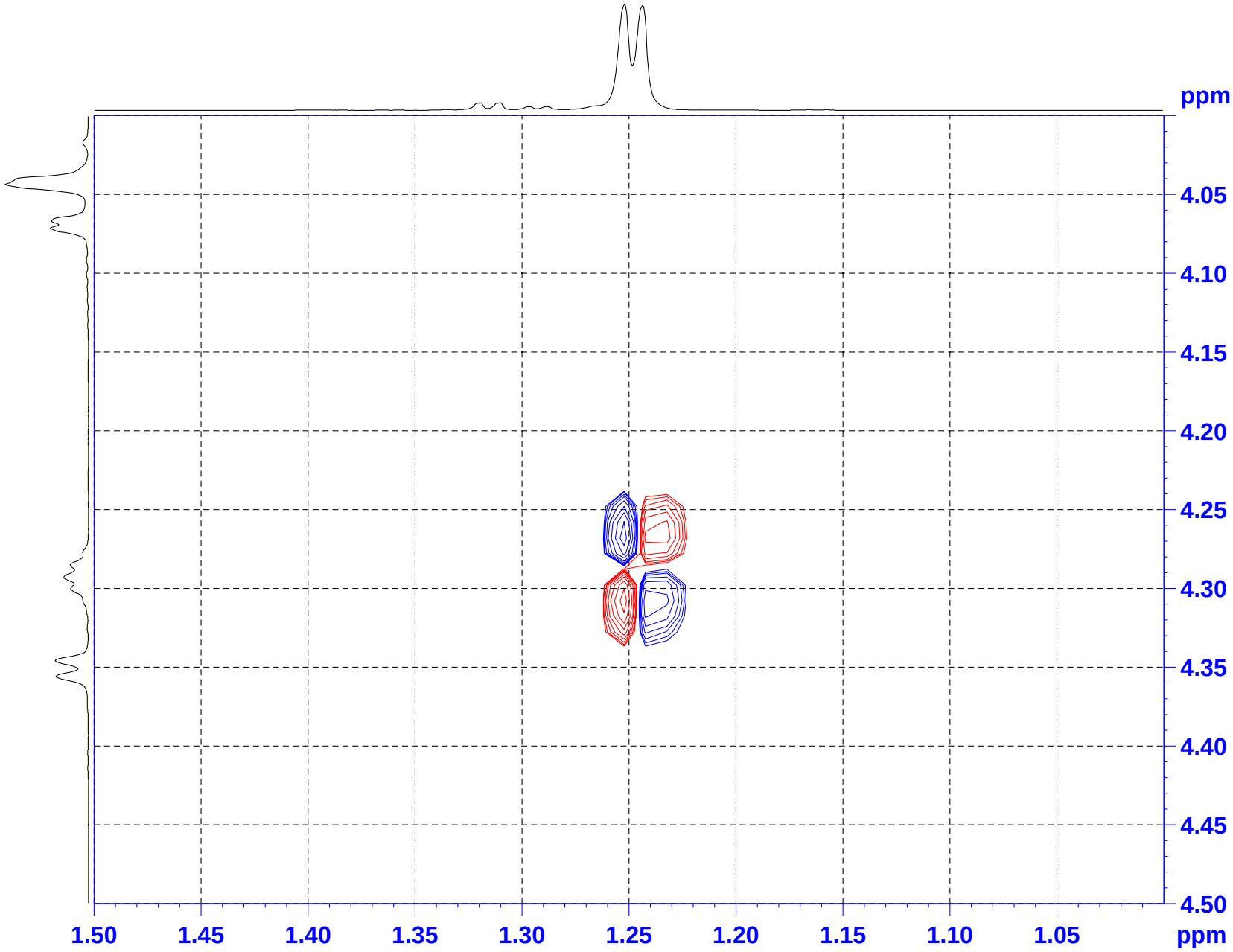

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               101
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              16.05
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG  cosygpmfphpp.rak
TD                2048
SOLVENT            D2O
NS                   8
DS                  16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                8192
DW              65.400 usec
DE               6.00 usec
TE              300.6 K
d0          0.00005012 sec
D1          2.00000000 sec
d11         0.03000000 sec
d12         0.00002000 sec
d13         0.00000400 sec
D16         0.00020000 sec
d20         0.00120400 sec
IN0         0.00013080 sec
ST1CNT             128

======== CHANNEL f1 ========
NUC1                1H
P1              12.00 usec
p2              24.00 usec
P17          10000.00 usec
PL1             -3.00 dB
PL10             9.00 dB
SFO1       750.1335267 MHz

====== GRADIENT CHANNEL =====
GPNAM1         SINE.100
GPNAM2         SINE.100
GPZ1             10.00 %
GPZ2             20.00 %
P16            1000.00 usec

F1 - Acquisition parameters
ND0                  1
TD                 256
SFO1         750.1335 MHz
FIDRES      29.864296 Hz
SW            10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                1024
SF         750.1299484 MHz
WDW              QSINE
SSB                  2
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2         States-TPPI
SF         750.1299484 MHz
WDW              QSINE
SSB                  2
LB                0.00 Hz
GB                   0
```

sakamoto750_01.101.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H DQF−COSY (cosygpmfphpp.rak):CPTCI−Z



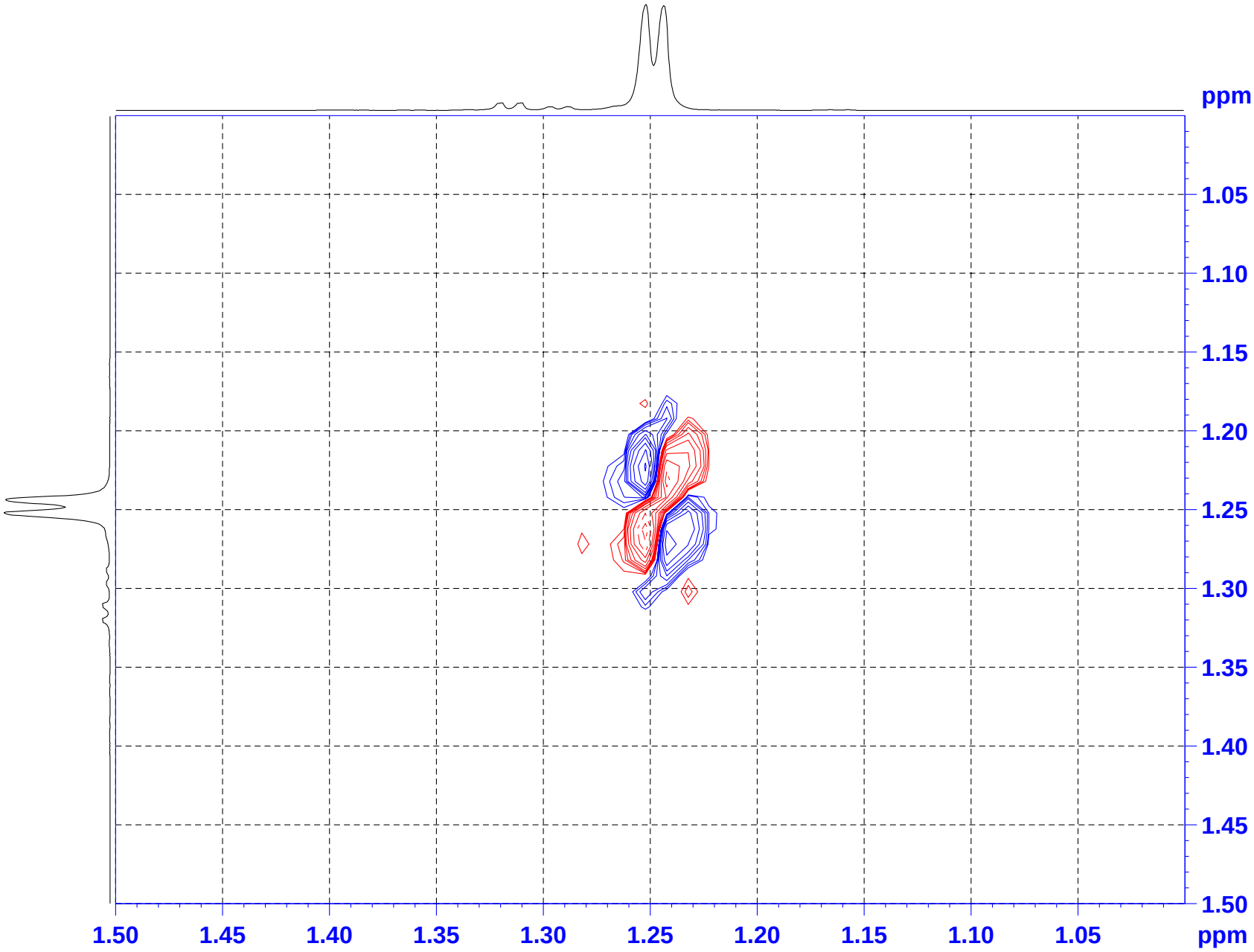

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO              101
PROCNO               1

F2 - Acquisition Parameters
Date_          20101025
Time             16.05
INSTRUM          spect
PROBHD   5 mm CPTCI 1H-
PULPROG  cosygpmfphpp.rak
TD                2048
SOLVENT            D2O
NS                   8
DS                  16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                8192
DW              65.400 usec
DE               6.00 usec
TE              300.6 K
d0          0.00005012 sec
D1          2.00000000 sec
d11         0.03000000 sec
d12         0.00002000 sec
d13         0.00000400 sec
D16         0.00020000 sec
d20         0.00120400 sec
IN0         0.00013080 sec
ST1CNT             128

======== CHANNEL f1 ========
NUC1                1H
P1              12.00 usec
p2              24.00 usec
P17          10000.00 usec
PL1             -3.00 dB
PL10             9.00 dB
SFO1       750.1335267 MHz

====== GRADIENT CHANNEL =====
GPNAM1         SINE.100
GPNAM2         SINE.100
GPZ1             10.00 %
GPZ2             20.00 %
P16            1000.00 usec

F1 - Acquisition parameters
ND0                  1
TD                 256
SFO1         750.1335 MHz
FIDRES      29.864296 Hz
SW             10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                1024
SF          750.1299484 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
```

sakamoto750_01.101.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H DQF−COSY (cosygpmfphpp.rak):CPTCI−Z



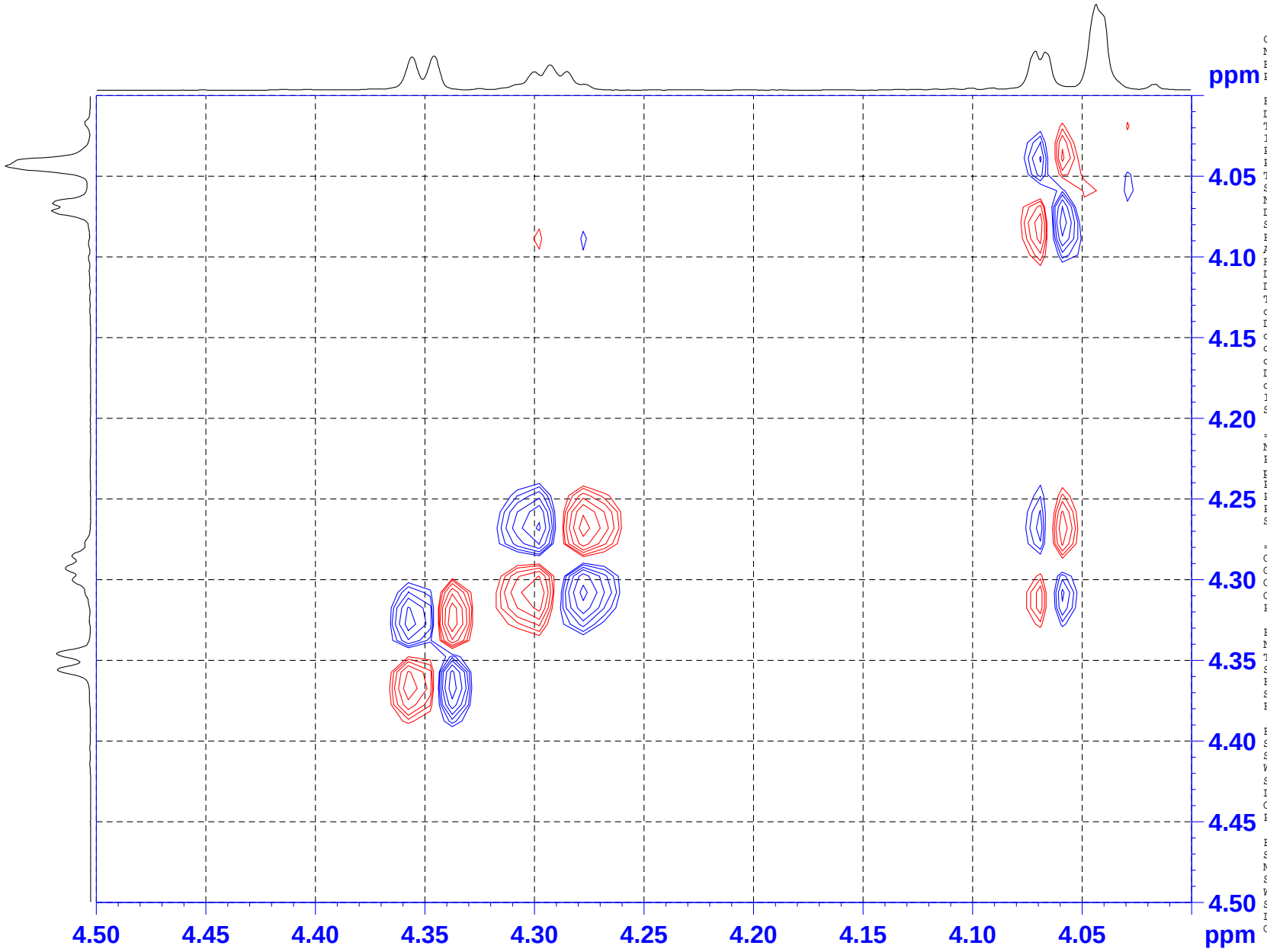

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               101
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              16.05
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG  cosygpmfphpp.rak
TD                2048
SOLVENT            D2O
NS                   8
DS                  16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                8192
DW              65.400 usec
DE               6.00 usec
TE              300.6 K
d0          0.00005012 sec
D1          2.00000000 sec
d11         0.03000000 sec
d12         0.00002000 sec
d13         0.00000400 sec
D16         0.00020000 sec
d20         0.00120400 sec
IN0         0.00013080 sec
ST1CNT             128

======== CHANNEL f1 ========
NUC1                1H
P1              12.00 usec
p2              24.00 usec
P17          10000.00 usec
PL1             -3.00 dB
PL10             9.00 dB
SFO1       750.1335267 MHz

====== GRADIENT CHANNEL =====
GPNAM1         SINE.100
GPNAM2         SINE.100
GPZ1            10.00 %
GPZ2            20.00 %
P16           1000.00 usec

F1 - Acquisition parameters
ND0                  1
TD                 256
SFO1         750.1335 MHz
FIDRES      29.864296 Hz
SW             10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                1024
SF          750.1299484 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
```

sakamoto750_01.101.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H DQF−COSY (cosygpmfphpp.rak):CPTCI−Z



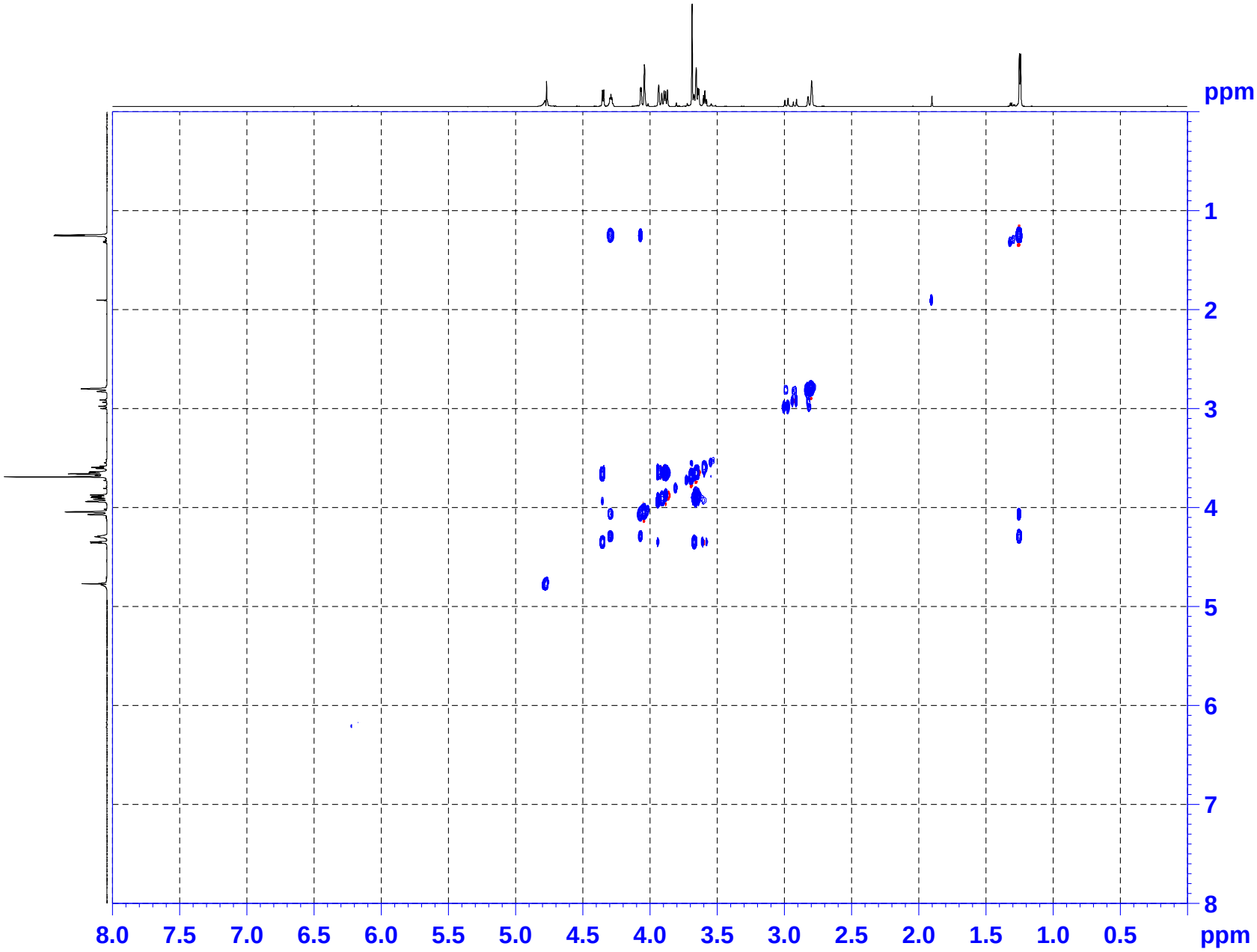

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO              101
PROCNO               1

F2 - Acquisition Parameters
Date_          20101025
Time             16.05
INSTRUM          spect
PROBHD   5 mm CPTCI 1H-
PULPROG  cosygpmfphpp.rak
TD                2048
SOLVENT            D2O
NS                   8
DS                  16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                8192
DW              65.400 usec
DE               6.00 usec
TE              300.6 K
d0          0.00005012 sec
D1          2.00000000 sec
d11         0.03000000 sec
d12         0.00002000 sec
d13         0.00000400 sec
D16         0.00020000 sec
d20         0.00120400 sec
IN0         0.00013080 sec
ST1CNT             128

======== CHANNEL f1 ========
NUC1               1H
P1              12.00 usec
p2              24.00 usec
P17          10000.00 usec
PL1             -3.00 dB
PL10             9.00 dB
SFO1       750.1335267 MHz

====== GRADIENT CHANNEL =====
GPNAM1        SINE.100
GPNAM2        SINE.100
GPZ1             10.00 %
GPZ2             20.00 %
P16            1000.00 usec

F1 - Acquisition parameters
ND0                  1
TD                 256
SFO1        750.1335 MHz
FIDRES     29.864296 Hz
SW            10.192 ppm
FnMODE     States-TPPI

F2 - Processing parameters
SI                1024
SF          750.1299484 MHz
WDW              QSINE
SSB                  2
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2        States-TPPI
SF          750.1299484 MHz
WDW              QSINE
SSB                  2
LB                0.00 Hz
GB                   0
```

sakamoto750_01.101.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H DQF−COSY (cosygpmfphpp.rak):CPTCI−Z



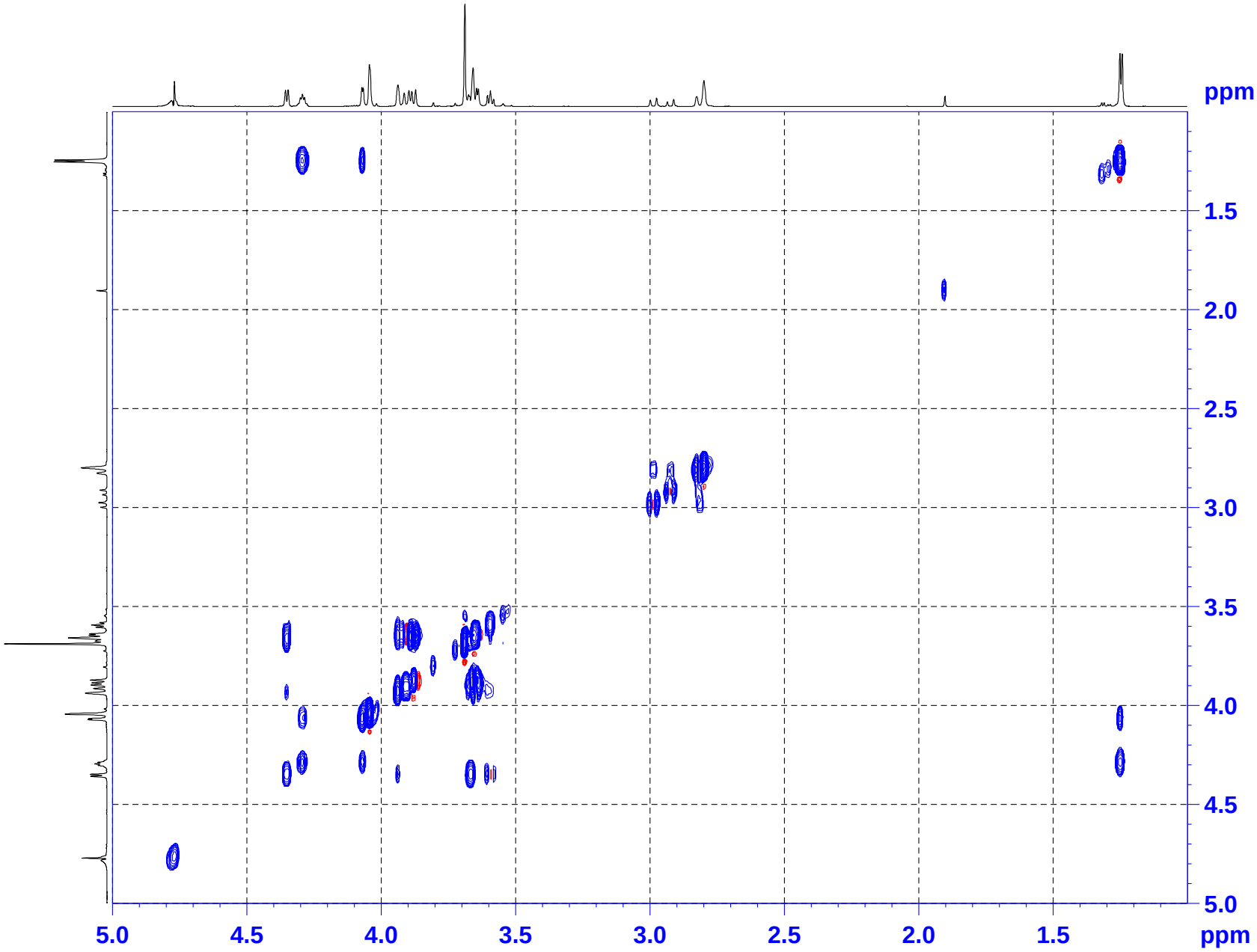

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               101
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              16.05
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG  cosygpmfphpp.rak
TD                2048
SOLVENT            D2O
NS                   8
DS                  16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ           0.1339892 sec
RG                8192
DW              65.400 usec
DE               6.00 usec
TE              300.6 K
d0           0.00005012 sec
D1           2.00000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
D16          0.00020000 sec
d20          0.00120400 sec
IN0          0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                1H
P1              12.00 usec
p2              24.00 usec
P17          10000.00 usec
PL1             -3.00 dB
PL10             9.00 dB
SFO1       750.1335267 MHz

====== GRADIENT CHANNEL =====
GPNAM1         SINE.100
GPNAM2         SINE.100
GPZ1            10.00 %
GPZ2            20.00 %
P16           1000.00 usec

F1 - Acquisition parameters
ND0                  1
TD                 256
SFO1       750.1335 MHz
FIDRES      29.864296 Hz
SW            10.192 ppm
FnMODE     States-TPPI

F2 - Processing parameters
SI                1024
SF         750.1299484 MHz
WDW              QSINE
SSB                  2
LB            0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2        States-TPPI
SF         750.1299484 MHz
WDW              QSINE
SSB                  2
LB            0.00 Hz
GB                   0
```

sakamoto750_01.102.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H TOCSY with presat. (mlevphpr):CPTCI−Z



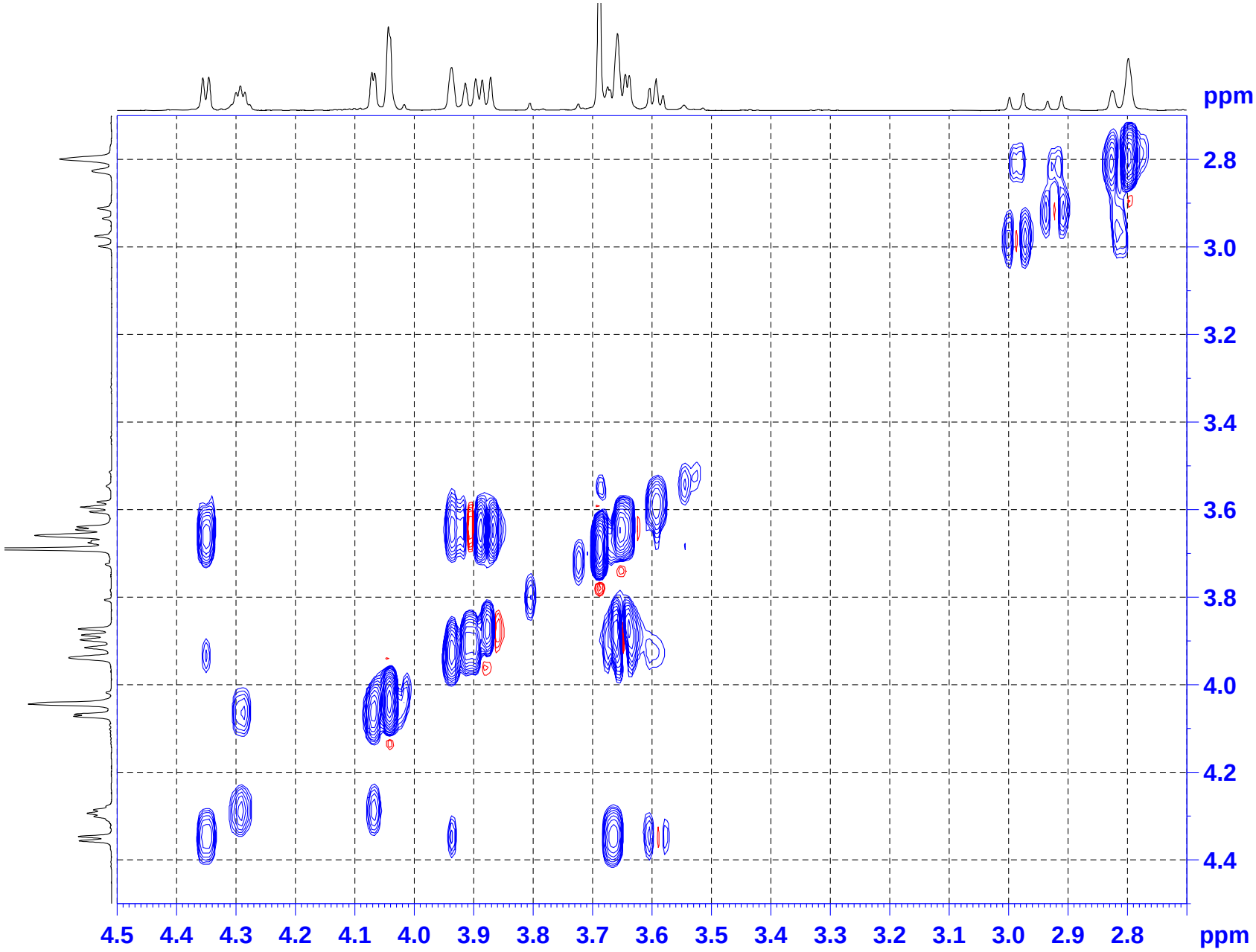

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               102
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              17.21
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG        mlevphpr
TD                2048
SOLVENT            D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ           0.1339892 sec
RG                  512
DW             65.400 usec
DE              6.00 usec
TE             300.6 K
d0          0.00005376 sec
D1          2.00000000 sec
D9          0.06000000 sec
d11         0.03000000 sec
d12         0.00002000 sec
d13         0.00000400 sec
FACTOR1               5
IN0         0.00013080 sec
l1                   30
SCALEF                6
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1              12.00 usec
p5              20.01 usec
P6              30.00 usec
p7              60.00 usec
P17           2500.00 usec
PL1              -3.00 dB
PL9              65.00 dB
PL10              5.00 dB
SFO1       750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1        750.1335 MHz
FIDRES     29.864296 Hz
SW           10.192 ppm
FnMODE    States-TPPI

F2 - Processing parameters
SI                 2048
SF         750.1299484 MHz
WDW              QSINE
SSB                   2
LB             0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2       States-TPPI
SF         750.1299484 MHz
WDW              QSINE
SSB                   2
LB             0.00 Hz
GB                    0
```

sakamoto750_01.102.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H TOCSY with presat. (mlevphpr):CPTCI−Z



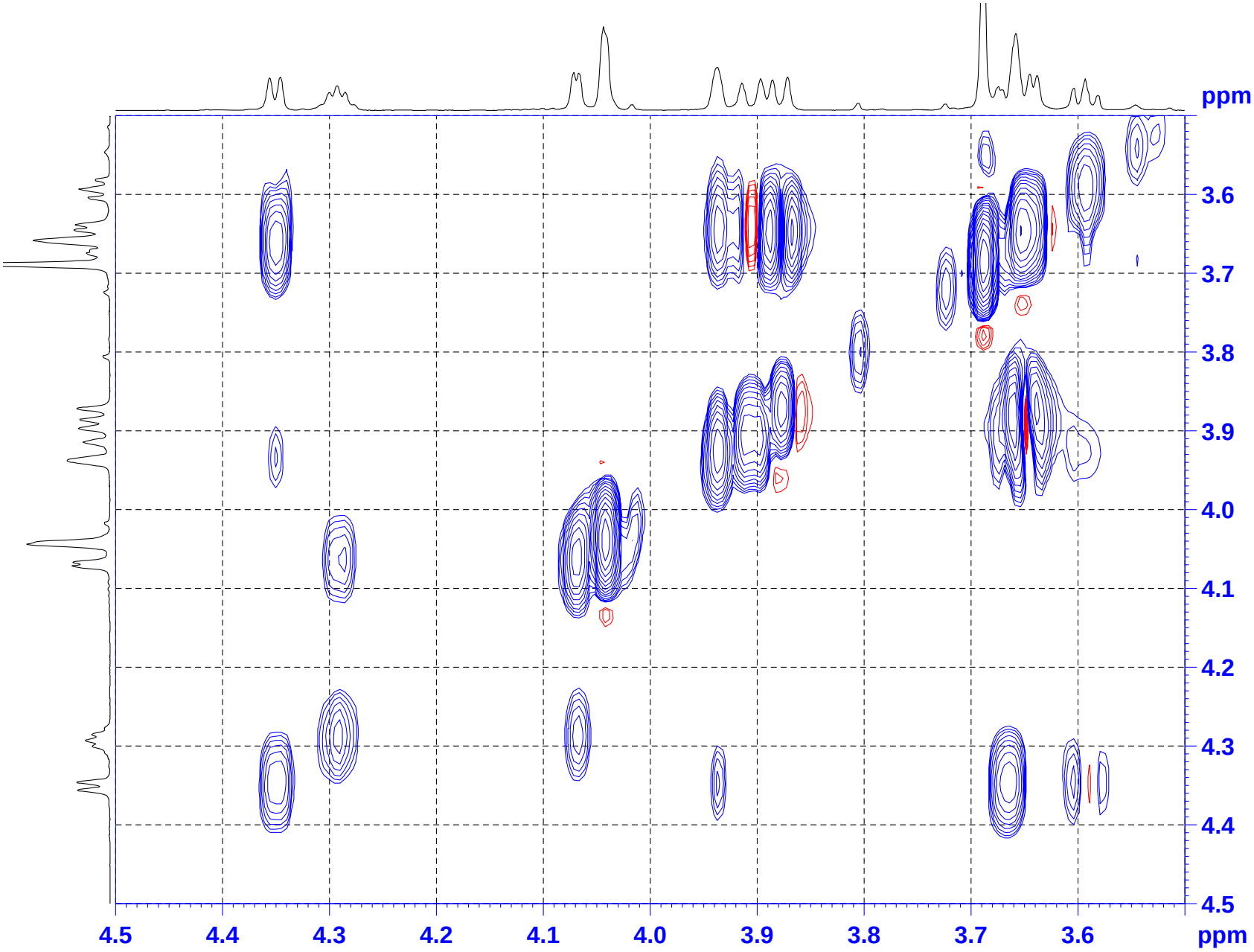

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               102
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time               17.21
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG         mlevphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH            7645.260 Hz
FIDRES         3.733037 Hz
AQ            0.1339892 sec
RG                  512
DW               65.400 usec
DE                6.00 usec
TE               300.6 K
d0           0.00005376 sec
D1           2.00000000 sec
D9           0.06000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
FACTOR1               5
IN0          0.00013080 sec
l1                   30
SCALEF                6
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
p5                20.01 usec
P6                30.00 usec
p7                60.00 usec
P17             2500.00 usec
PL1               -3.00 dB
PL9               65.00 dB
PL10               5.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1          750.1335 MHz
FIDRES       29.864296 Hz
SW             10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.102.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H TOCSY with presat. (mlevphpr):CPTCI−Z



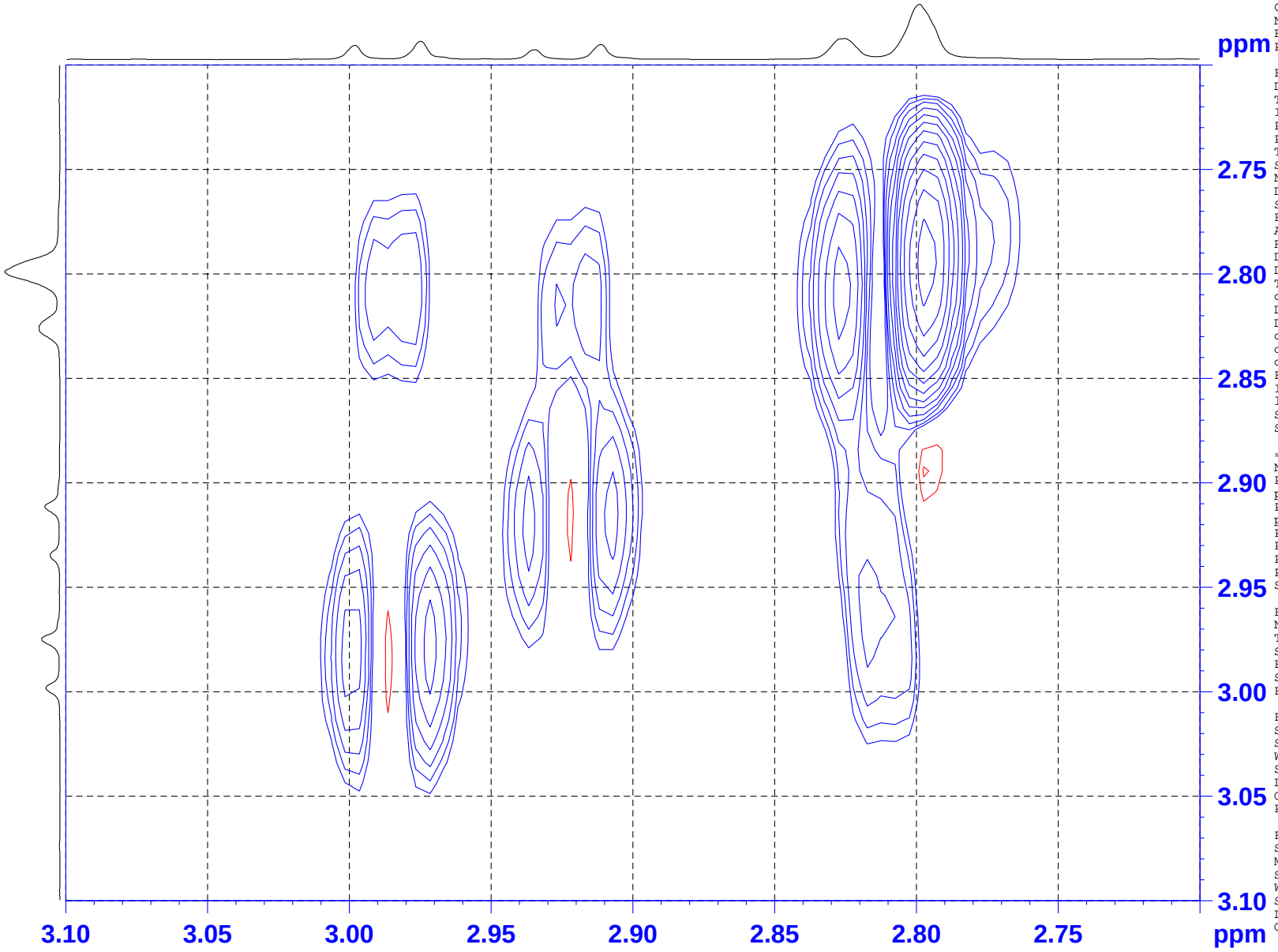

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               102
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              17.21
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG        mlevphpr
TD                2048
SOLVENT            D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ           0.1339892 sec
RG                  512
DW             65.400 usec
DE              6.00 usec
TE             300.6 K
d0          0.00005376 sec
D1          2.00000000 sec
D9          0.06000000 sec
d11         0.03000000 sec
d12         0.00002000 sec
d13         0.00000400 sec
FACTOR1               5
IN0         0.00013080 sec
l1                   30
SCALEF                6
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1               12.00 usec
p5               20.01 usec
P6               30.00 usec
p7               60.00 usec
P17            2500.00 usec
PL1              -3.00 dB
PL9              65.00 dB
PL10              5.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1         750.1335 MHz
FIDRES      29.864296 Hz
SW            10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW              QSINE
SSB                   2
LB             0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW              QSINE
SSB                   2
LB             0.00 Hz
GB                    0
```

sakamoto750_01.102.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H TOCSY with presat. (mlevphpr):CPTCI−Z



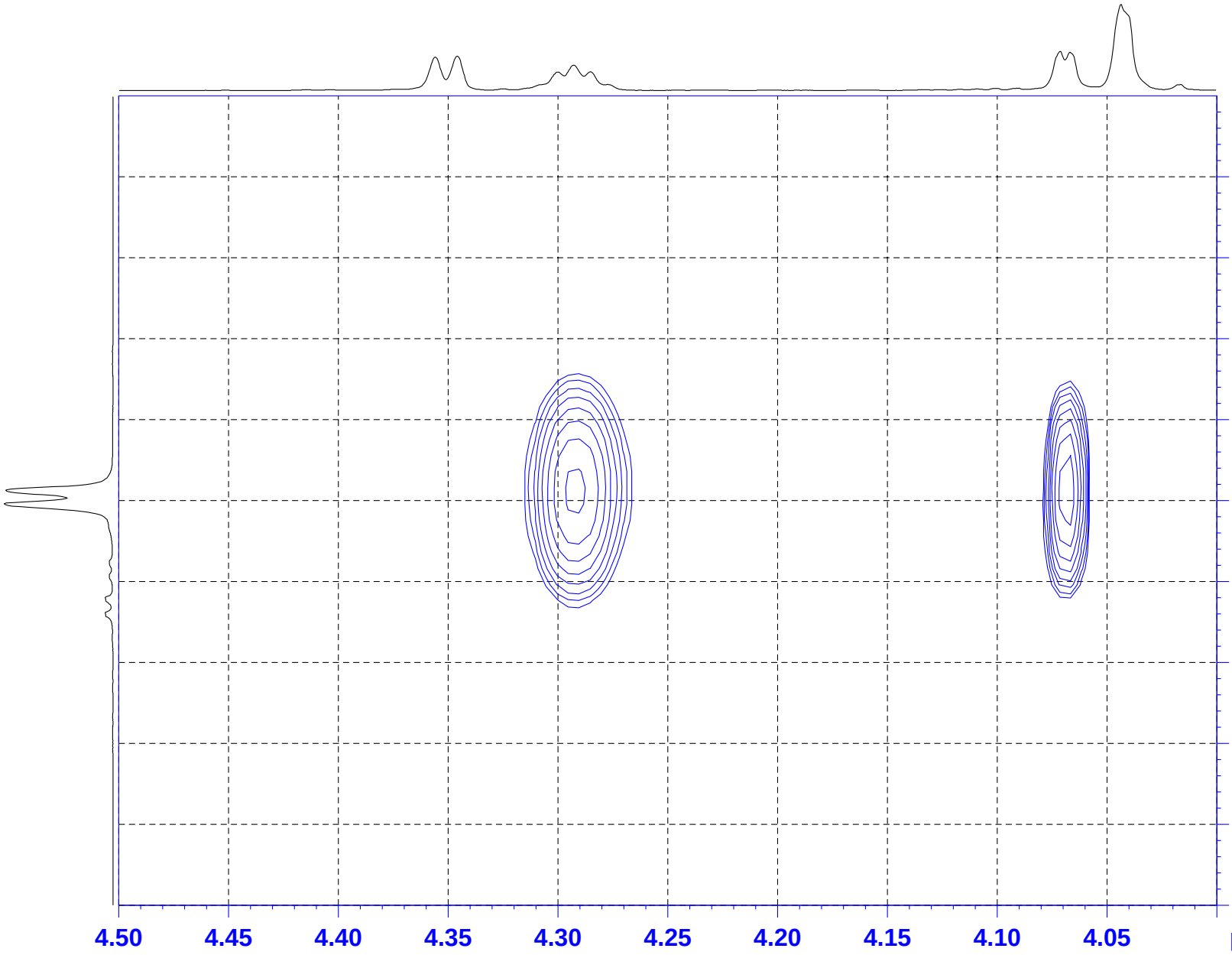

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               102
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time               17.21
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG         mlevphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH            7645.260 Hz
FIDRES         3.733037 Hz
AQ            0.1339892 sec
RG                  512
DW               65.400 usec
DE                6.00 usec
TE               300.6 K
d0           0.00005376 sec
D1           2.00000000 sec
D9           0.06000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
FACTOR1               5
IN0          0.00013080 sec
l1                   30
SCALEF                6
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
p5                20.01 usec
P6                30.00 usec
p7                60.00 usec
P17             2500.00 usec
PL1               -3.00 dB
PL9               65.00 dB
PL10               5.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1         750.1335 MHz
FIDRES      29.864296 Hz
SW            10.192 ppm
FnMODE     States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2        States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.102.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H TOCSY with presat. (mlevphpr):CPTCI−Z



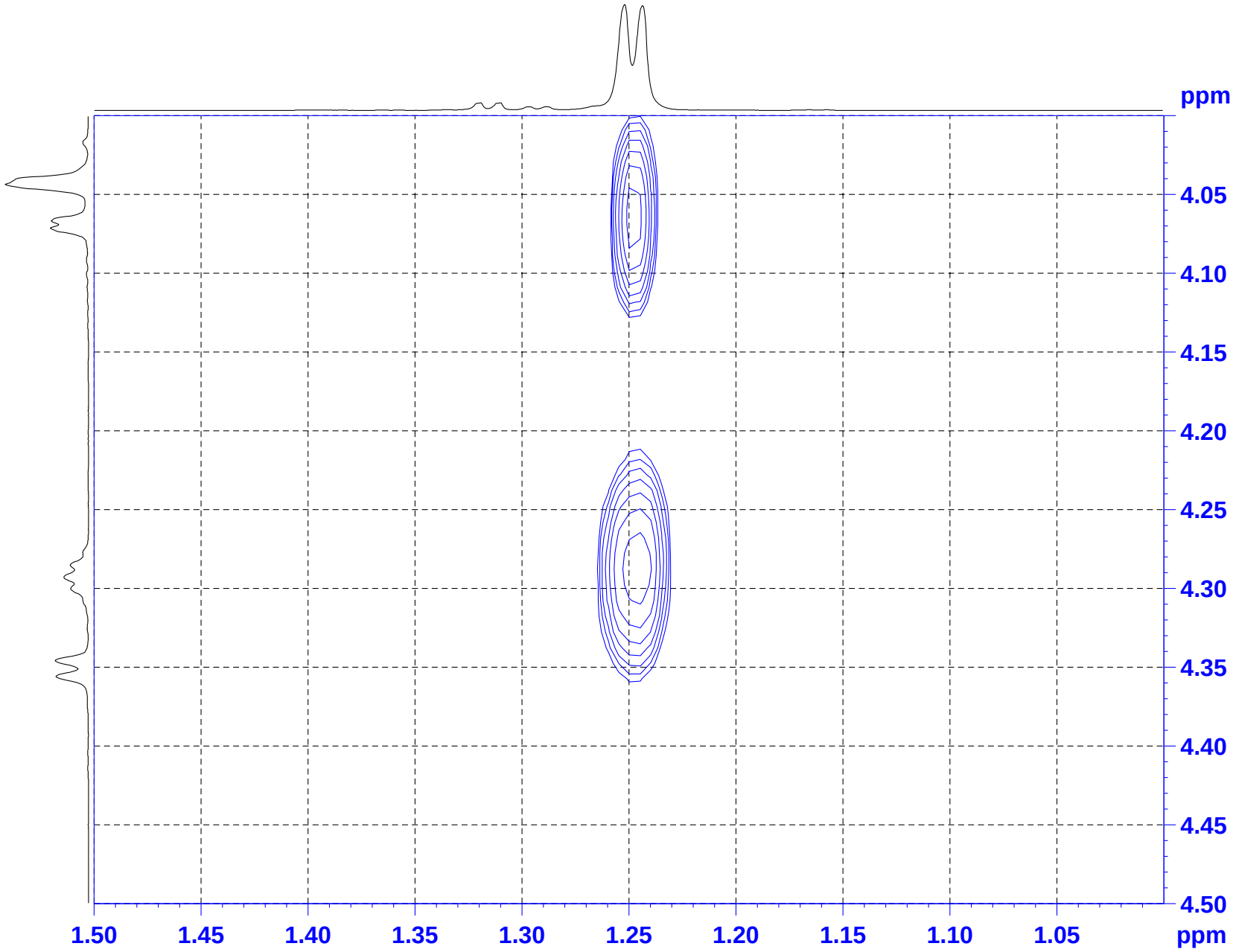

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               102
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time               17.21
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG         mlevphpr
TD                 2048
SOLVENT              D2O
NS                     8
DS                    16
SWH            7645.260 Hz
FIDRES            3.733037 Hz
AQ             0.1339892 sec
RG                   512
DW                65.400 usec
DE                 6.00 usec
TE                300.6 K
d0             0.00005376 sec
D1             2.00000000 sec
D9             0.06000000 sec
d11            0.03000000 sec
d12            0.00002000 sec
d13            0.00000400 sec
FACTOR1                5
IN0            0.00013080 sec
l1                    30
SCALEF                 6
ST1CNT               128

======== CHANNEL f1 ========
NUC1                  1H
P1                 12.00 usec
p5                 20.01 usec
P6                 30.00 usec
p7                 60.00 usec
P17              2500.00 usec
PL1                -3.00 dB
PL9                65.00 dB
PL10                5.00 dB
SFO1         750.1335267 MHz

F1 - Acquisition parameters
ND0                    1
TD                   256
SFO1          750.1335 MHz
FIDRES         29.864296 Hz
SW               10.192 ppm
FnMODE       States-TPPI

F2 - Processing parameters
SI                  2048
SF           750.1299484 MHz
WDW                QSINE
SSB                    2
LB                  0.00 Hz
GB                     0
PC                  1.00

F1 - Processing parameters
SI                  1024
MC2          States-TPPI
SF           750.1299484 MHz
WDW                QSINE
SSB                    2
LB                  0.00 Hz
GB                     0
```

sakamoto750_01.102.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H TOCSY with presat. (mlevphpr):CPTCI−Z



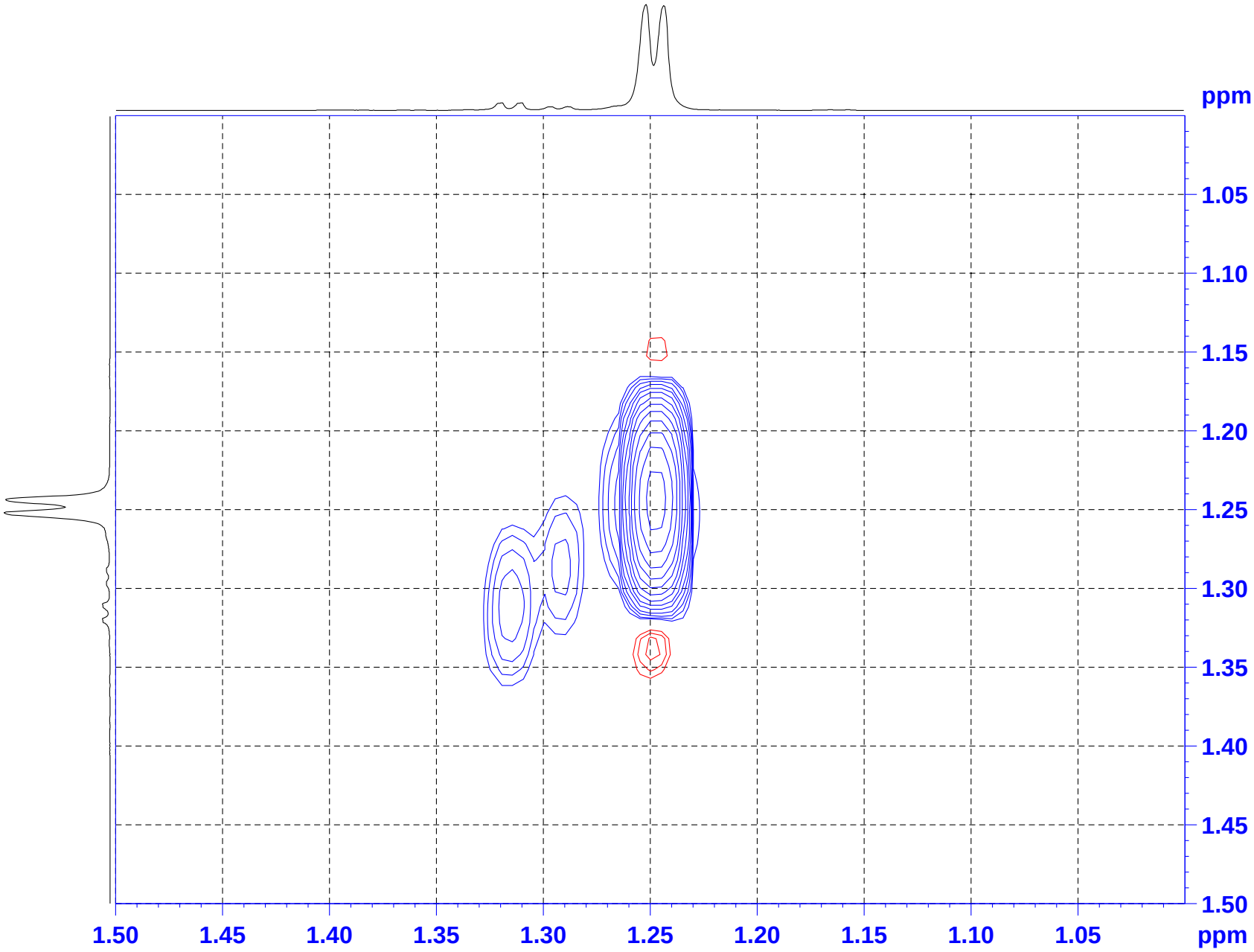

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               102
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time               17.21
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG         mlevphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ           0.1339892 sec
RG                  512
DW             65.400 usec
DE              6.00 usec
TE              300.6 K
d0          0.00005376 sec
D1          2.00000000 sec
D9          0.06000000 sec
d11         0.03000000 sec
d12         0.00002000 sec
d13         0.00000400 sec
FACTOR1               5
IN0         0.00013080 sec
l1                   30
SCALEF                6
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1               12.00 usec
p5               20.01 usec
P6               30.00 usec
p7               60.00 usec
P17            2500.00 usec
PL1              -3.00 dB
PL9              65.00 dB
PL10              5.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1         750.1335 MHz
FIDRES      29.864296 Hz
SW            10.192 ppm
FnMODE     States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW              QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2        States-TPPI
SF          750.1299484 MHz
WDW              QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.102.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H TOCSY with presat. (mlevphpr):CPTCI−Z



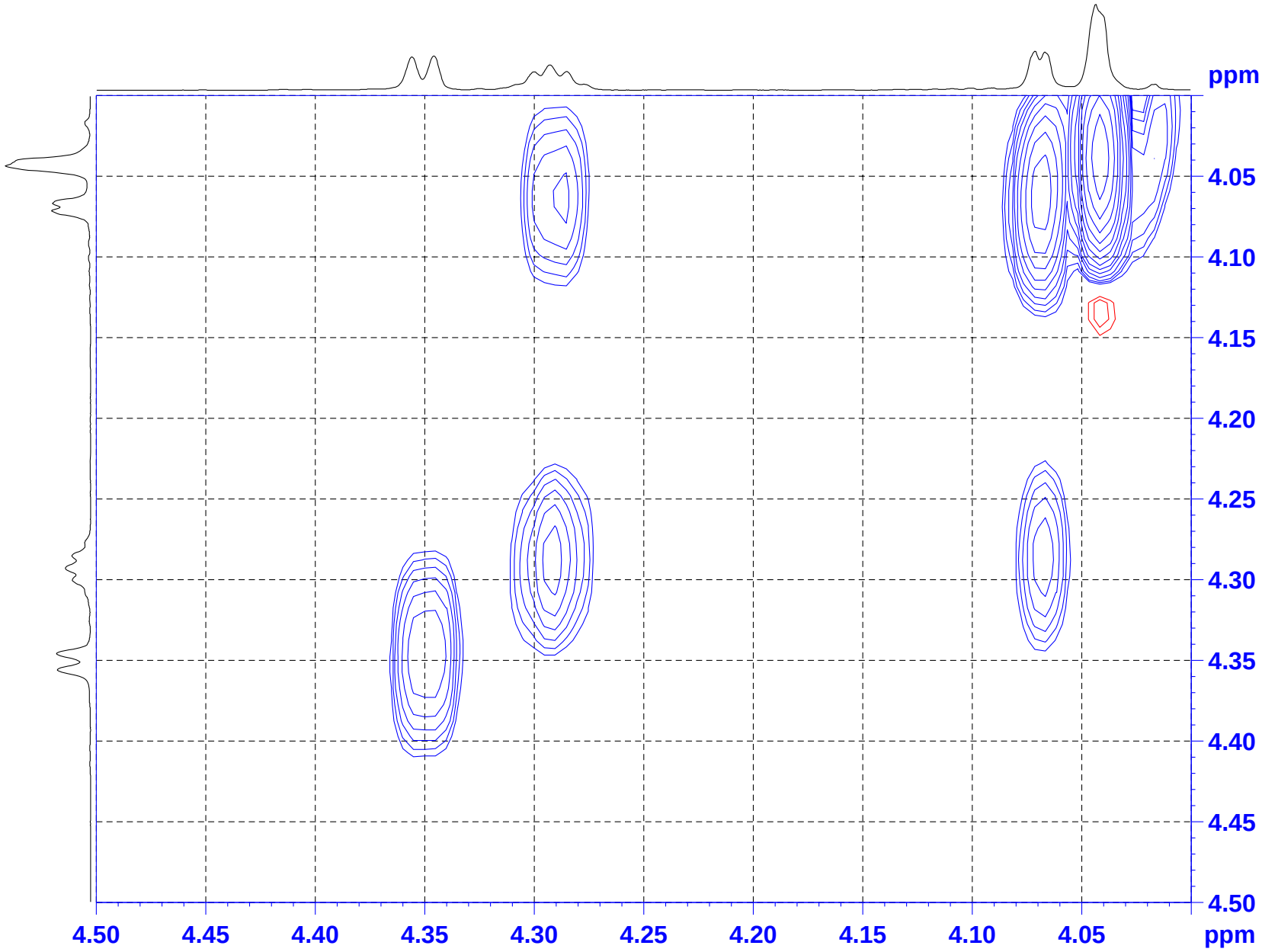

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               102
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time               17.21
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG         mlevphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES           3.733037 Hz
AQ            0.1339892 sec
RG                  512
DW               65.400 usec
DE                6.00 usec
TE               300.6 K
d0            0.00005376 sec
D1            2.00000000 sec
D9            0.06000000 sec
d11           0.03000000 sec
d12           0.00002000 sec
d13           0.00000400 sec
FACTOR1               5
IN0           0.00013080 sec
l1                   30
SCALEF                6
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
p5                20.01 usec
P6                30.00 usec
p7                60.00 usec
P17             2500.00 usec
PL1               -3.00 dB
PL9               65.00 dB
PL10               5.00 dB
SFO1         750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1          750.1335 MHz
FIDRES         29.864296 Hz
SW               10.192 ppm
FnMODE       States-TPPI

F2 - Processing parameters
SI                 2048
SF           750.1299484 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2          States-TPPI
SF           750.1299484 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.102.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H TOCSY with presat. (mlevphpr):CPTCI−Z



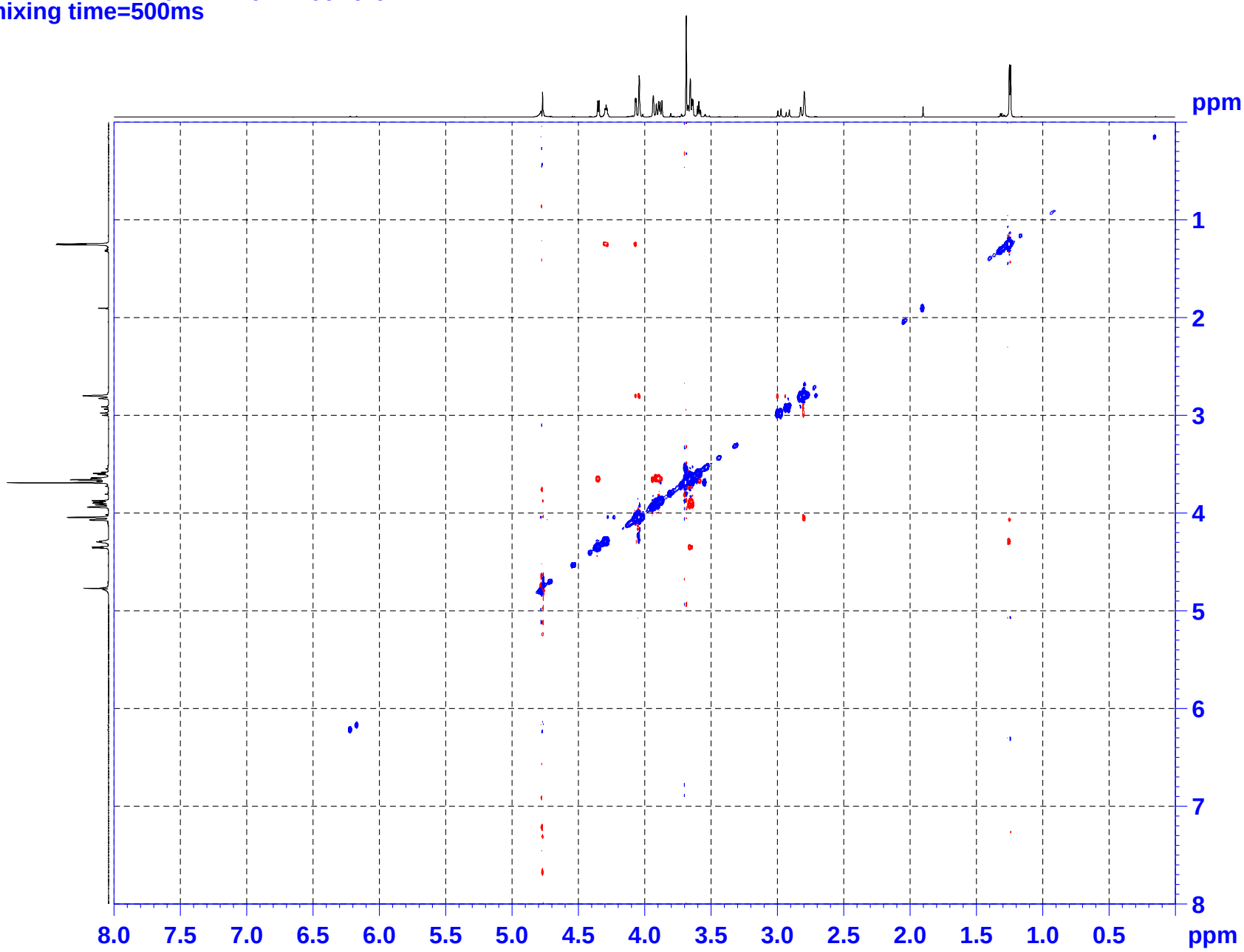

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               102
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time               17.21
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG         mlevphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ           0.1339892 sec
RG                  512
DW             65.400 usec
DE              6.00 usec
TE              300.6 K
d0          0.00005376 sec
D1          2.00000000 sec
D9          0.06000000 sec
d11         0.03000000 sec
d12         0.00002000 sec
d13         0.00000400 sec
FACTOR1               5
IN0         0.00013080 sec
l1                   30
SCALEF                6
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1               12.00 usec
p5               20.01 usec
P6               30.00 usec
p7               60.00 usec
P17            2500.00 usec
PL1              -3.00 dB
PL9              65.00 dB
PL10              5.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1         750.1335 MHz
FIDRES      29.864296 Hz
SW            10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.102.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H TOCSY with presat. (mlevphpr):CPTCI−Z



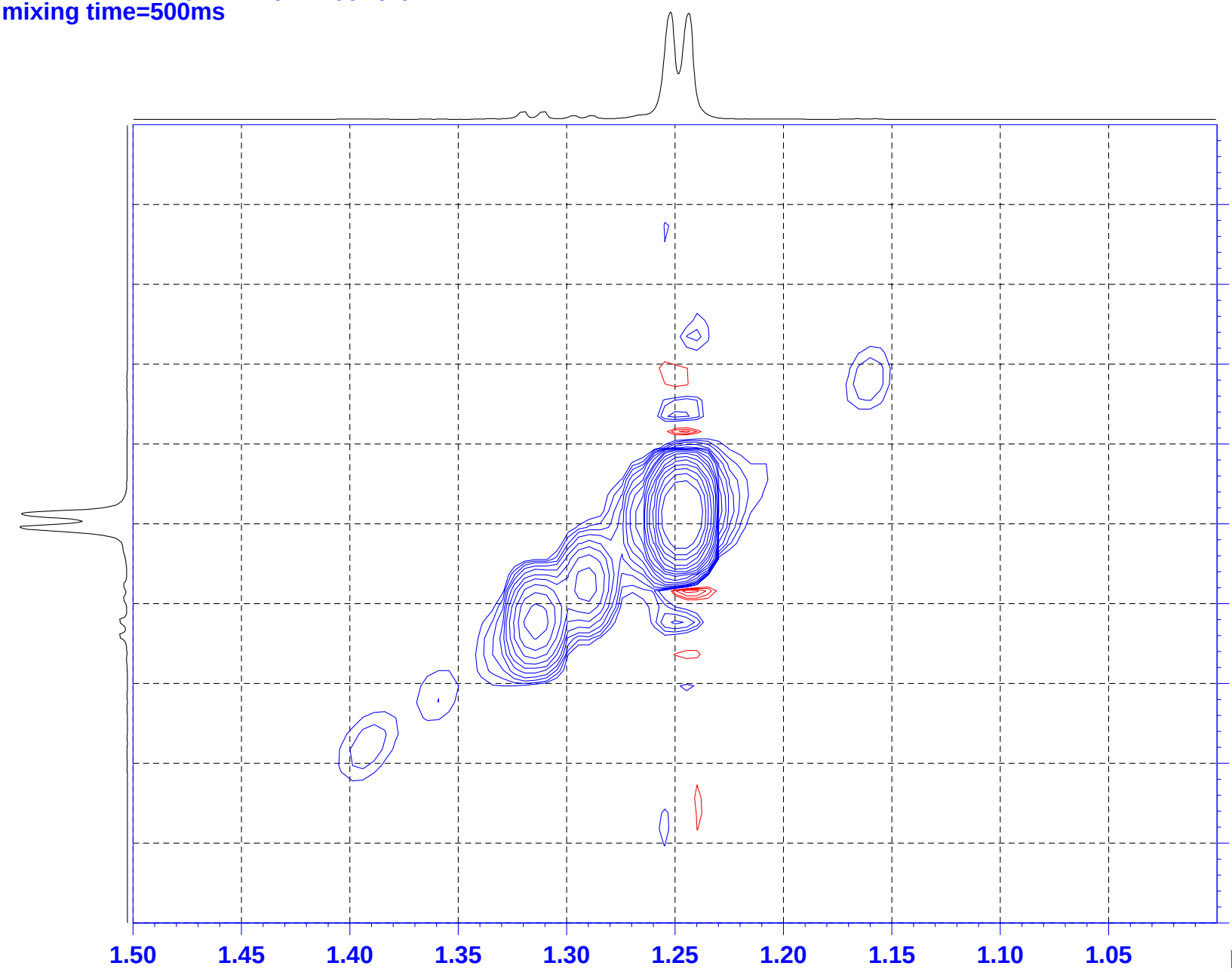

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               102
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time               17.21
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG         mlevphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH            7645.260 Hz
FIDRES            3.733037 Hz
AQ             0.1339892 sec
RG                  512
DW                65.400 usec
DE                 6.00 usec
TE                300.6 K
d0           0.00005376 sec
D1           2.00000000 sec
D9           0.06000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
FACTOR1               5
IN0          0.00013080 sec
l1                   30
SCALEF                6
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
p5                20.01 usec
P6                30.00 usec
p7                60.00 usec
P17             2500.00 usec
PL1               -3.00 dB
PL9               65.00 dB
PL10               5.00 dB
SFO1         750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1          750.1335 MHz
FIDRES         29.864296 Hz
SW               10.192 ppm
FnMODE       States-TPPI

F2 - Processing parameters
SI                 2048
SF           750.1299484 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2          States-TPPI
SF           750.1299484 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.103.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H NOESY with presat. (noesyphpr):CPTCI−Z
mixing time=500ms



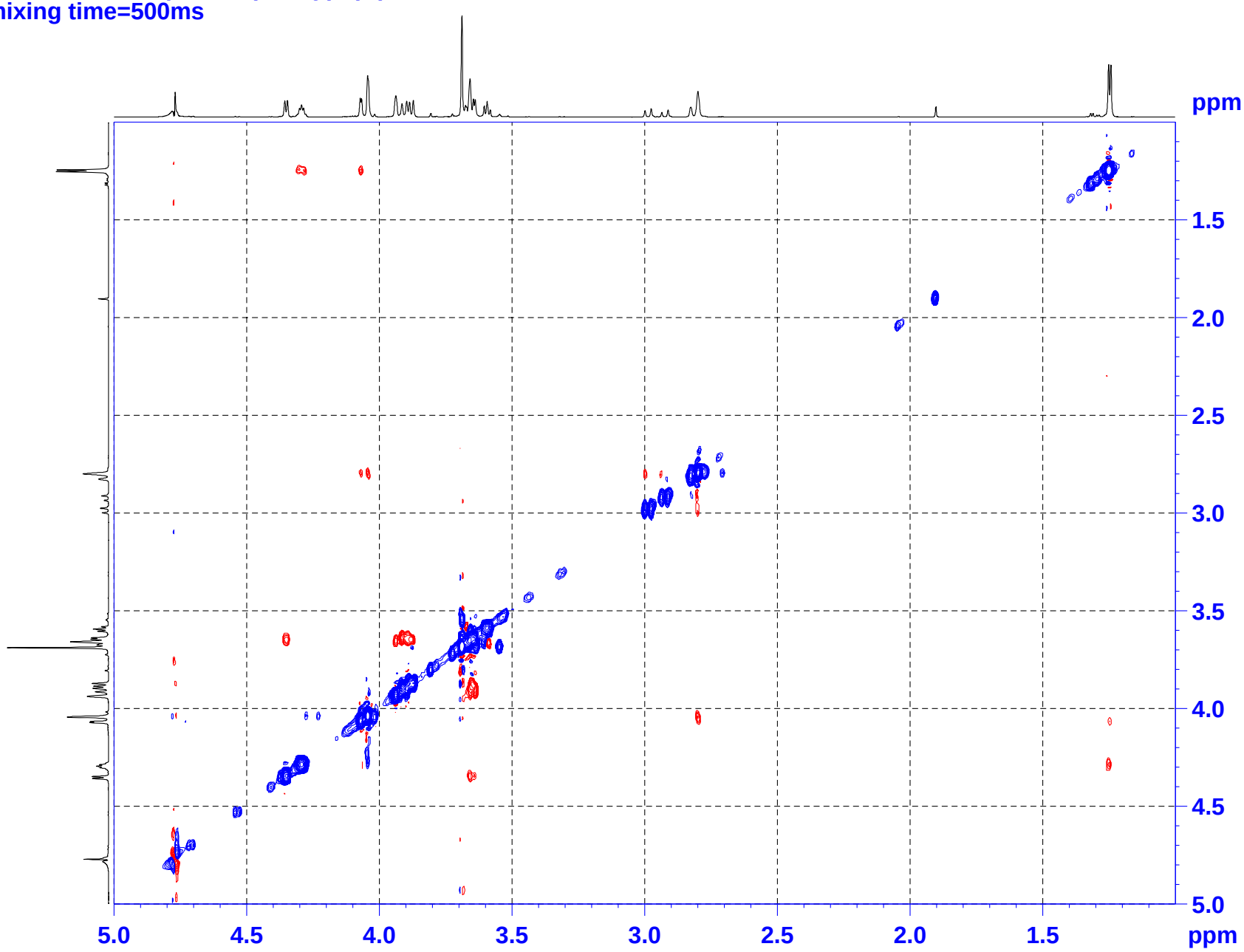

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               103
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              18.38
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       noesyphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH            7645.260 Hz
FIDRES         3.733037 Hz
AQ             0.1339892 sec
RG                  128
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0           0.00005012 sec
D1           2.00000000 sec
D8           0.50000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
IN0          0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                1H
P1                12.00 usec
PL1               -3.00 dB
PL9               65.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1          750.1335 MHz
FIDRES        29.864296 Hz
SW               10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.103.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H NOESY with presat. (noesyphpr):CPTCI−Z
mixing time=500ms



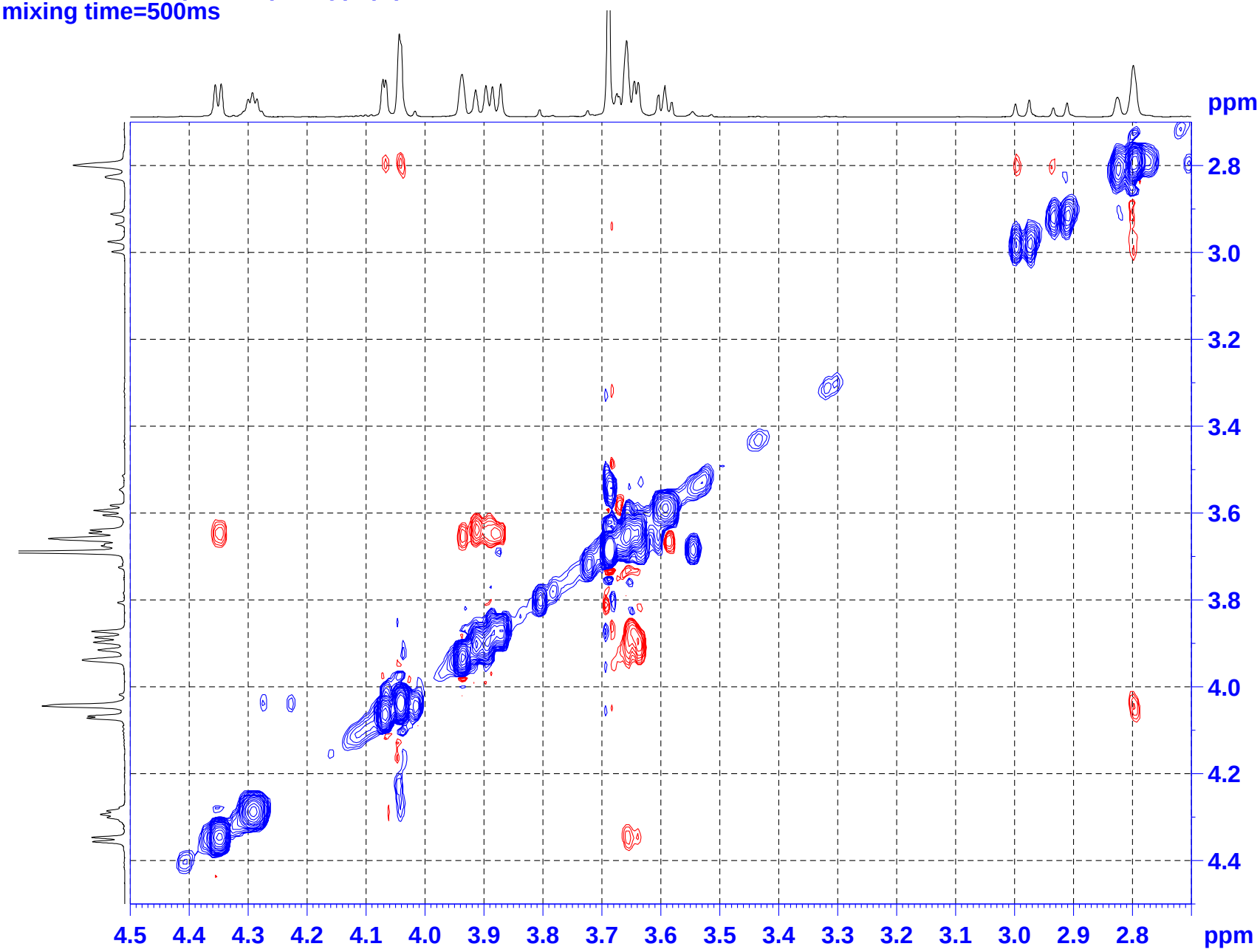

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               103
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              18.38
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       noesyphpr
TD                2048
SOLVENT            D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                  128
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0            0.00005012 sec
D1            2.00000000 sec
D8            0.50000000 sec
d11           0.03000000 sec
d12           0.00002000 sec
d13           0.00000400 sec
IN0           0.00013080 sec
ST1CNT               128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
PL1               -3.00 dB
PL9               65.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1          750.1335 MHz
FIDRES       29.864296 Hz
SW              10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                0.00 Hz
GB                    0
PC                1.00

F1 - Processing parameters
SI                 1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                0.00 Hz
GB                    0
```

sakamoto750_01.103.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H NOESY with presat. (noesyphpr):CPTCI−Z
mixing time=500ms



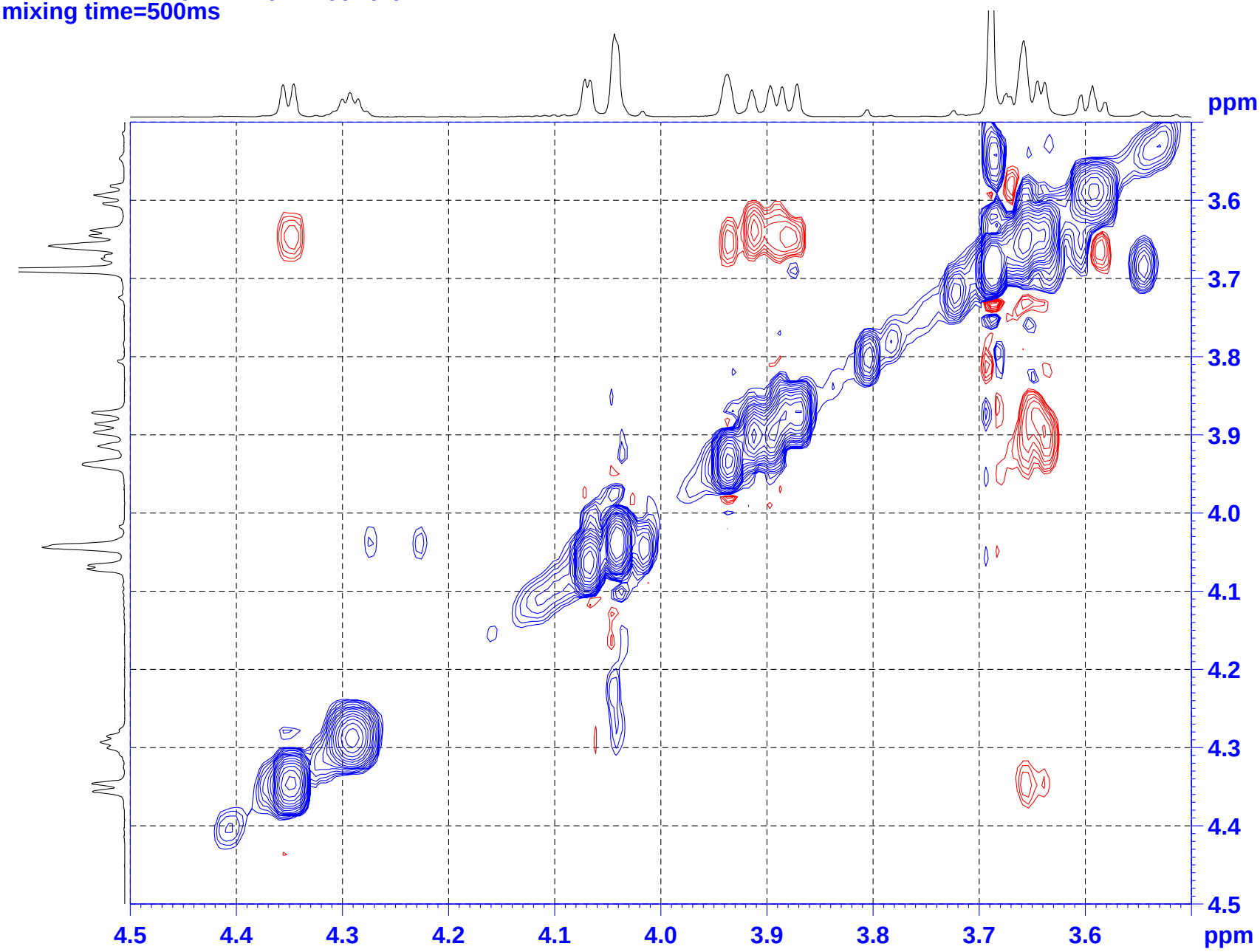

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               103
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              18.38
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       noesyphpr
TD                2048
SOLVENT            D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                  128
DW               65.400 usec
DE                6.00 usec
TE               300.6 K
d0            0.00005012 sec
D1            2.00000000 sec
D8            0.50000000 sec
d11           0.03000000 sec
d12           0.00002000 sec
d13           0.00000400 sec
IN0           0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1               12.00 usec
PL1              -3.00 dB
PL9              65.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                  1
TD                 256
SFO1         750.1335 MHz
FIDRES       29.864296 Hz
SW             10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                2048
SF          750.1299484 MHz
WDW              QSINE
SSB                  2
LB                0.00 Hz
GB                   0
PC                1.00

F1 - Processing parameters
SI                1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW              QSINE
SSB                  2
LB                0.00 Hz
GB                   0
```

sakamoto750_01.103.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H NOESY with presat. (noesyphpr):CPTCI−Z
mixing time=500ms




```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               103
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              18.38
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       noesyphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH            7645.260 Hz
FIDRES         3.733037 Hz
AQ             0.1339892 sec
RG                  128
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0           0.00005012 sec
D1           2.00000000 sec
D8           0.50000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
IN0          0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                1H
P1               12.00 usec
PL1              -3.00 dB
PL9              65.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1         750.1335 MHz
FIDRES        29.864296 Hz
SW               10.192 ppm
FnMODE       States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2          States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

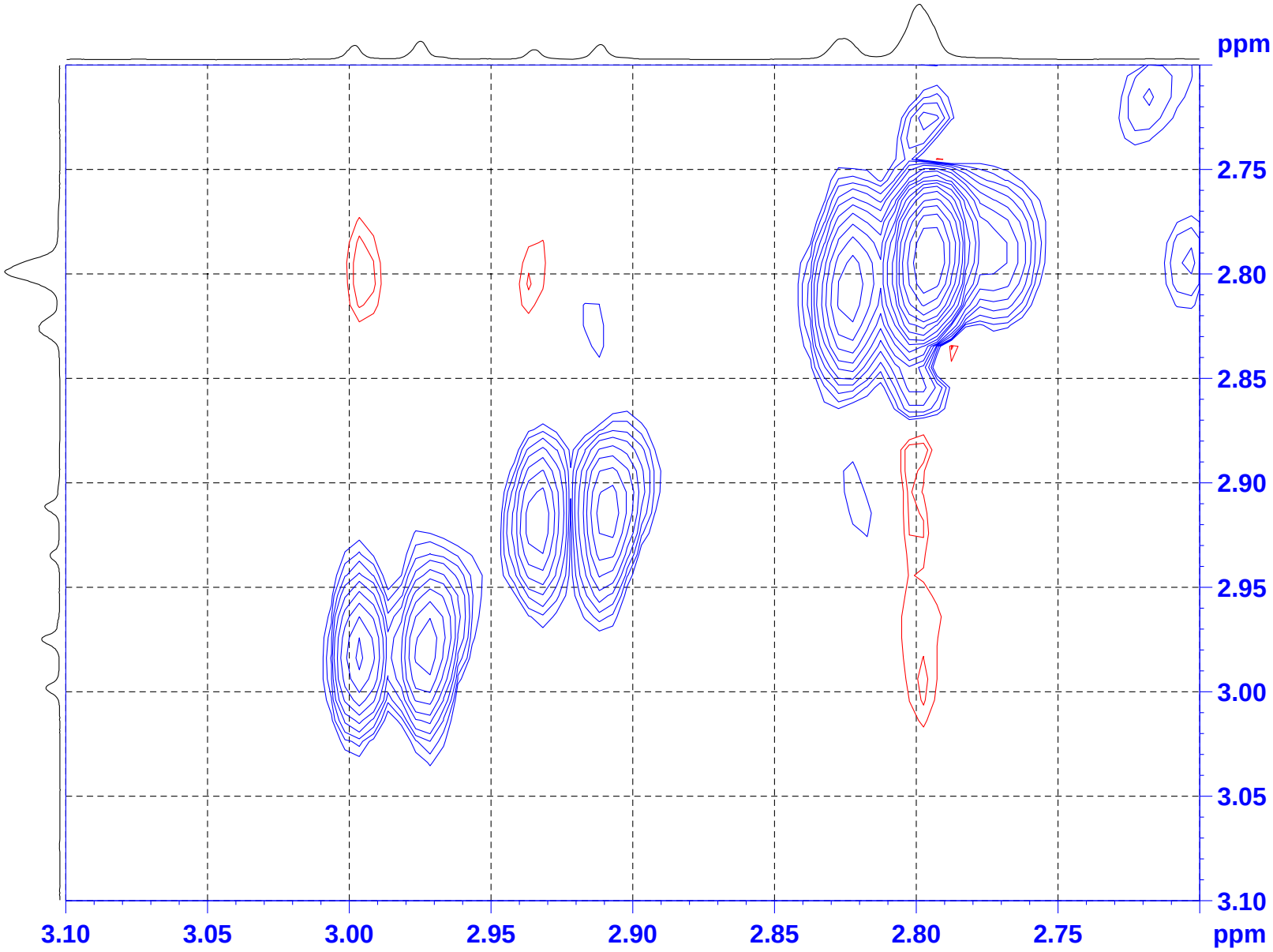
sakamoto750_01.103.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H NOESY with presat. (noesyphpr):CPTCI−Z
mixing time=500ms



BRUKER

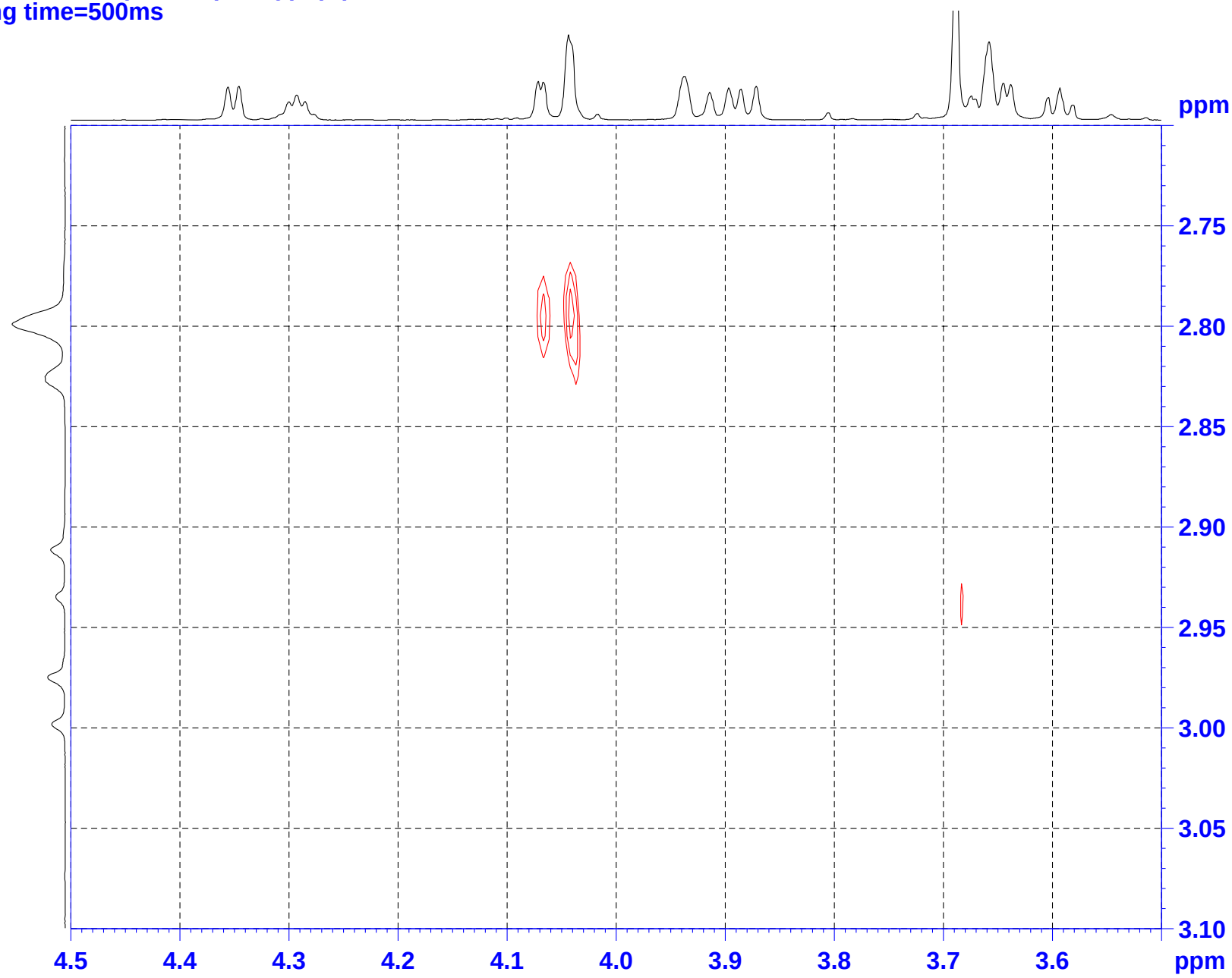
```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               103
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              18.38
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       noesyphpr
TD                2048
SOLVENT            D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                  128
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0            0.00005012 sec
D1            2.00000000 sec
D8            0.50000000 sec
d11           0.03000000 sec
d12           0.00002000 sec
d13           0.00000400 sec
IN0           0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                1H
P1               12.00 usec
PL1              -3.00 dB
PL9              65.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1        750.1335 MHz
FIDRES      29.864296 Hz
SW            10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.103.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H NOESY with presat. (noesyphpr):CPTCI−Z
mixing time=500ms



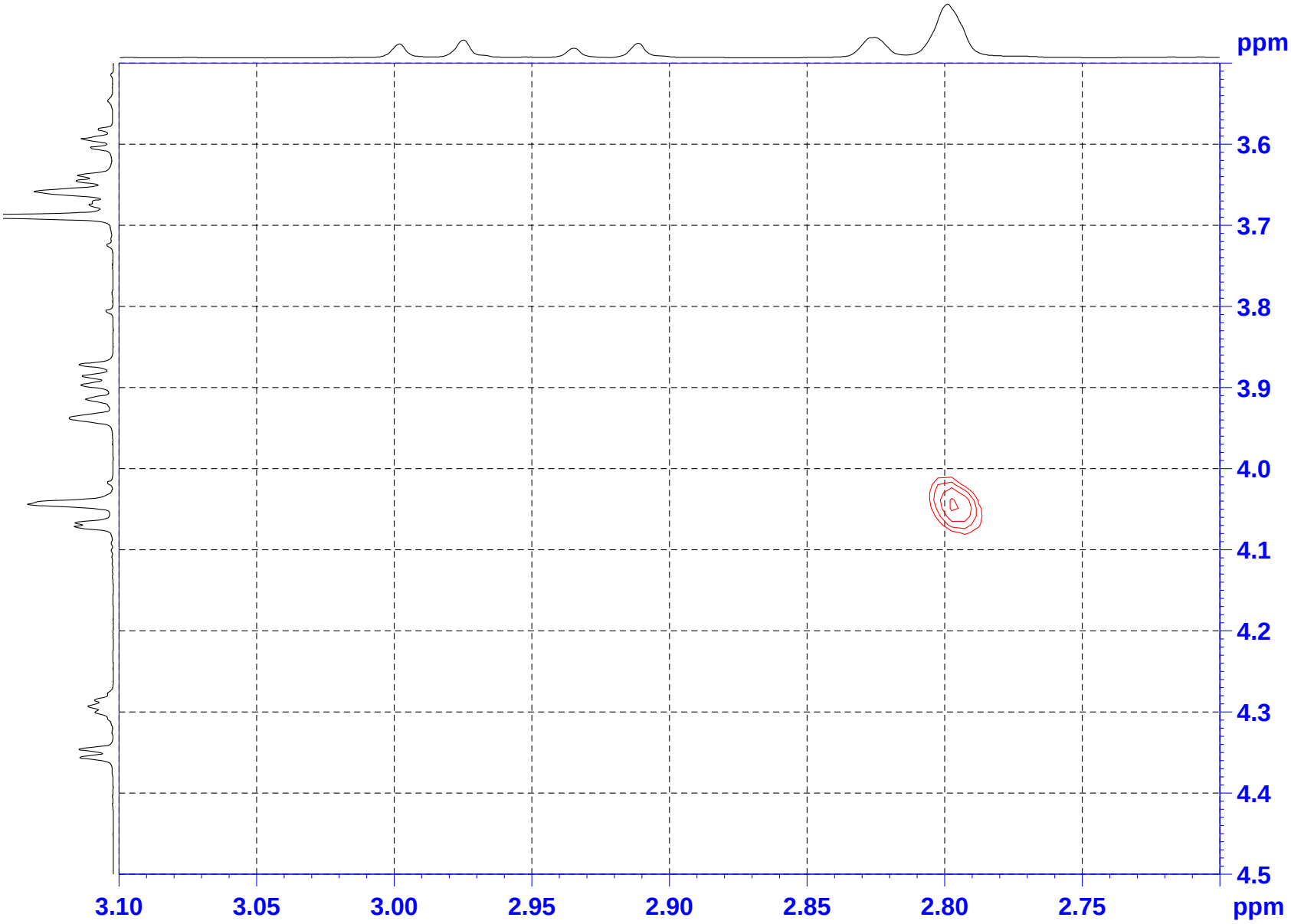

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                103
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101025
Time               18.38
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG       noesyphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                  128
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0            0.00005012 sec
D1            2.00000000 sec
D8            0.50000000 sec
d11           0.03000000 sec
d12           0.00002000 sec
d13           0.00000400 sec
IN0           0.00013080 sec
ST1CNT               128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
PL1               -3.00 dB
PL9               65.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1          750.1335 MHz
FIDRES       29.864296 Hz
SW              10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                0.00 Hz
GB                    0
PC                1.00

F1 - Processing parameters
SI                 1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                0.00 Hz
GB                    0
```

sakamoto750_01.103.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H NOESY with presat. (noesyphpr):CPTCI−Z
mixing time=500ms



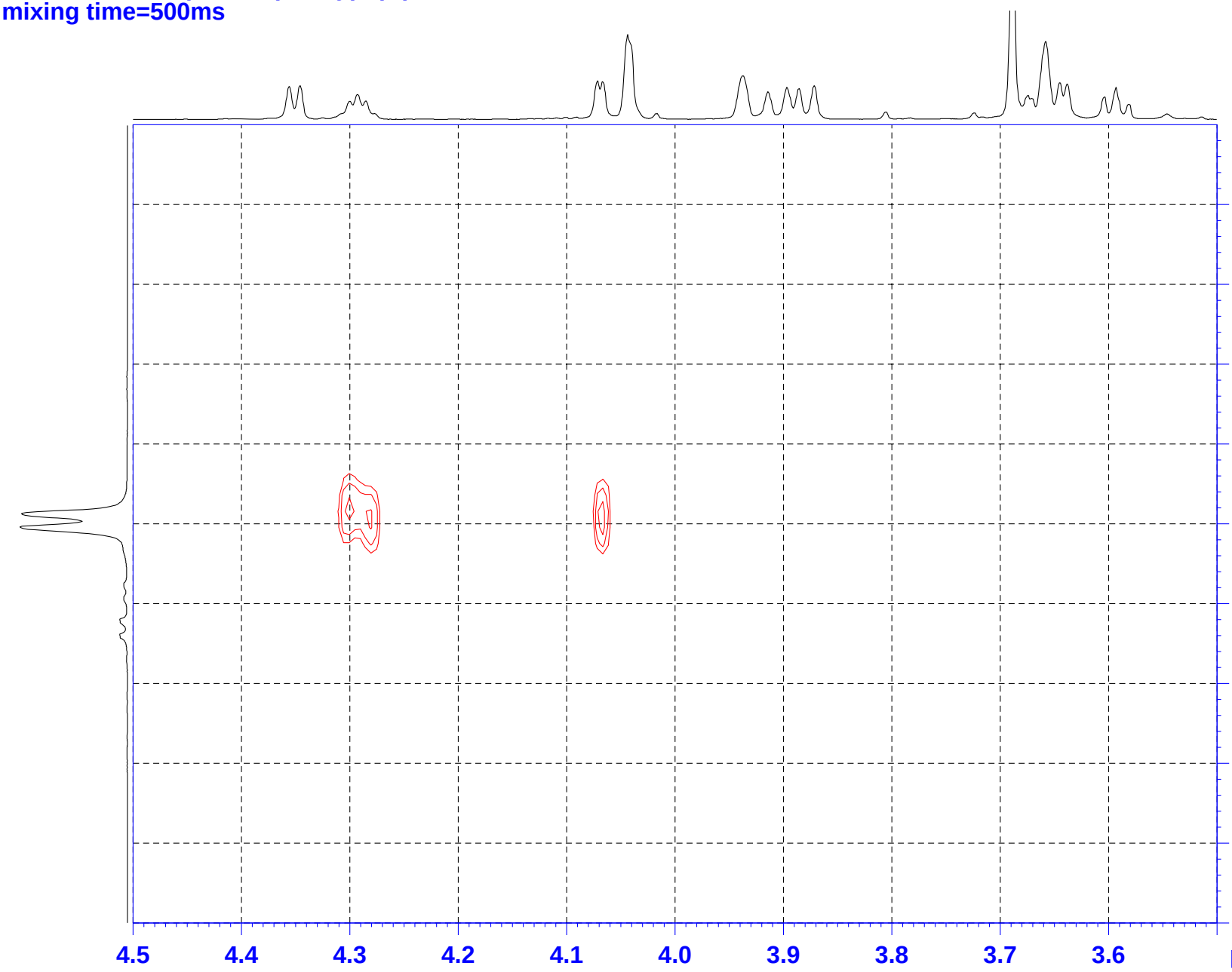

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               103
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              18.38
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       noesyphpr
TD                2048
SOLVENT            D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                  128
DW               65.400 usec
DE                6.00 usec
TE               300.6 K
d0           0.00005012 sec
D1           2.00000000 sec
D8           0.50000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
IN0          0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1               12.00 usec
PL1              -3.00 dB
PL9              65.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                  1
TD                 256
SFO1         750.1335 MHz
FIDRES       29.864296 Hz
SW              10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                2048
SF          750.1299484 MHz
WDW              QSINE
SSB                  2
LB                0.00 Hz
GB                   0
PC                1.00

F1 - Processing parameters
SI                1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW              QSINE
SSB                  2
LB                0.00 Hz
GB                   0
```

sakamoto750_01.103.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H NOESY with presat. (noesyphpr):CPTCI−Z
mixing time=500ms



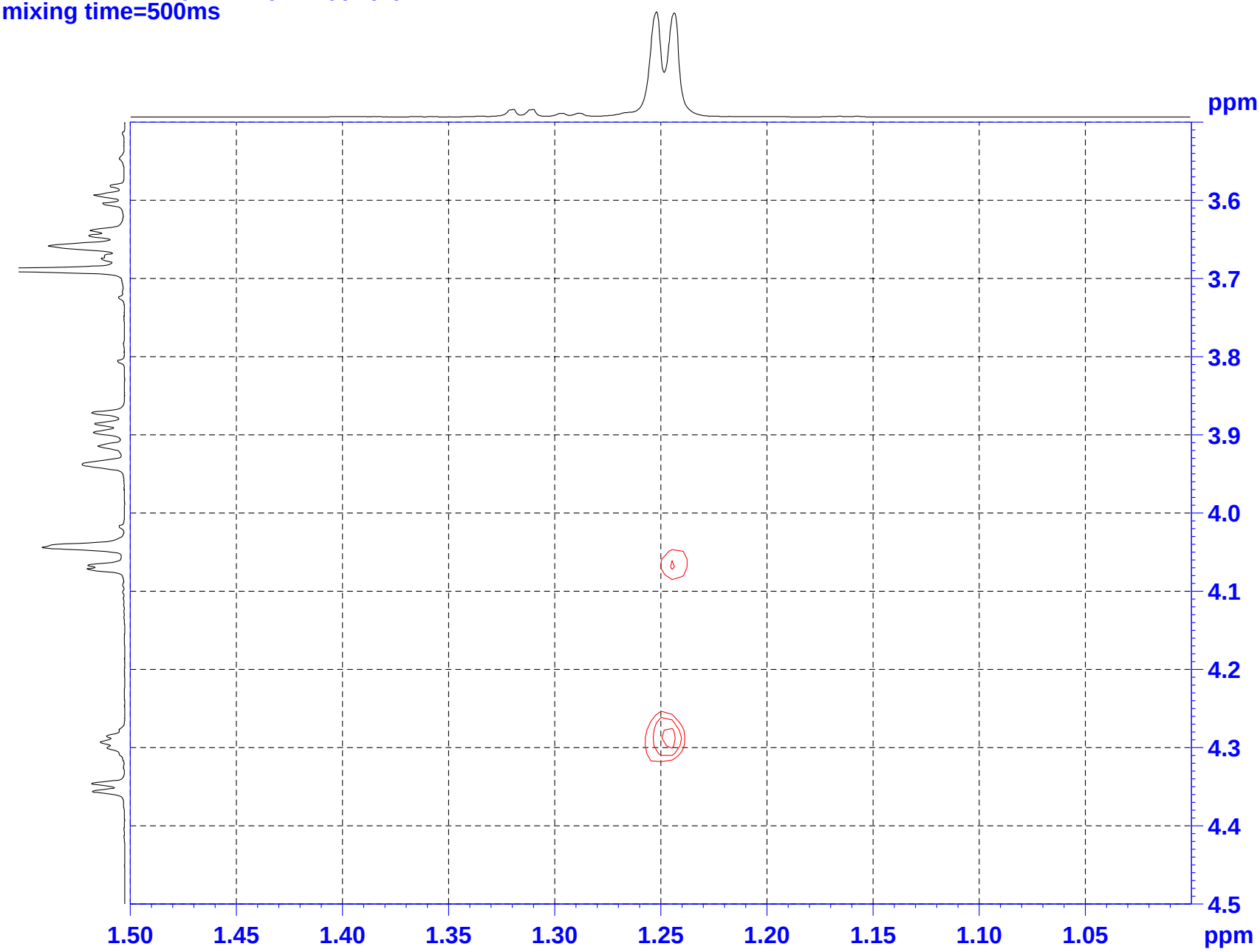

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               103
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              18.38
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       noesyphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                  128
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0          0.00005012 sec
D1          2.00000000 sec
D8          0.50000000 sec
d11         0.03000000 sec
d12         0.00002000 sec
d13         0.00000400 sec
IN0         0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                1H
P1               12.00 usec
PL1              -3.00 dB
PL9              65.00 dB
SFO1       750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1          750.1335 MHz
FIDRES        29.864296 Hz
SW               10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                 2048
SF         750.1299484 MHz
WDW               QSINE
SSB                   2
LB                0.00 Hz
GB                    0
PC                1.00

F1 - Processing parameters
SI                 1024
MC2         States-TPPI
SF         750.1299484 MHz
WDW               QSINE
SSB                   2
LB                0.00 Hz
GB                    0
```

sakamoto750_01.103.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H NOESY with presat. (noesyphpr):CPTCI−Z
mixing time=500ms



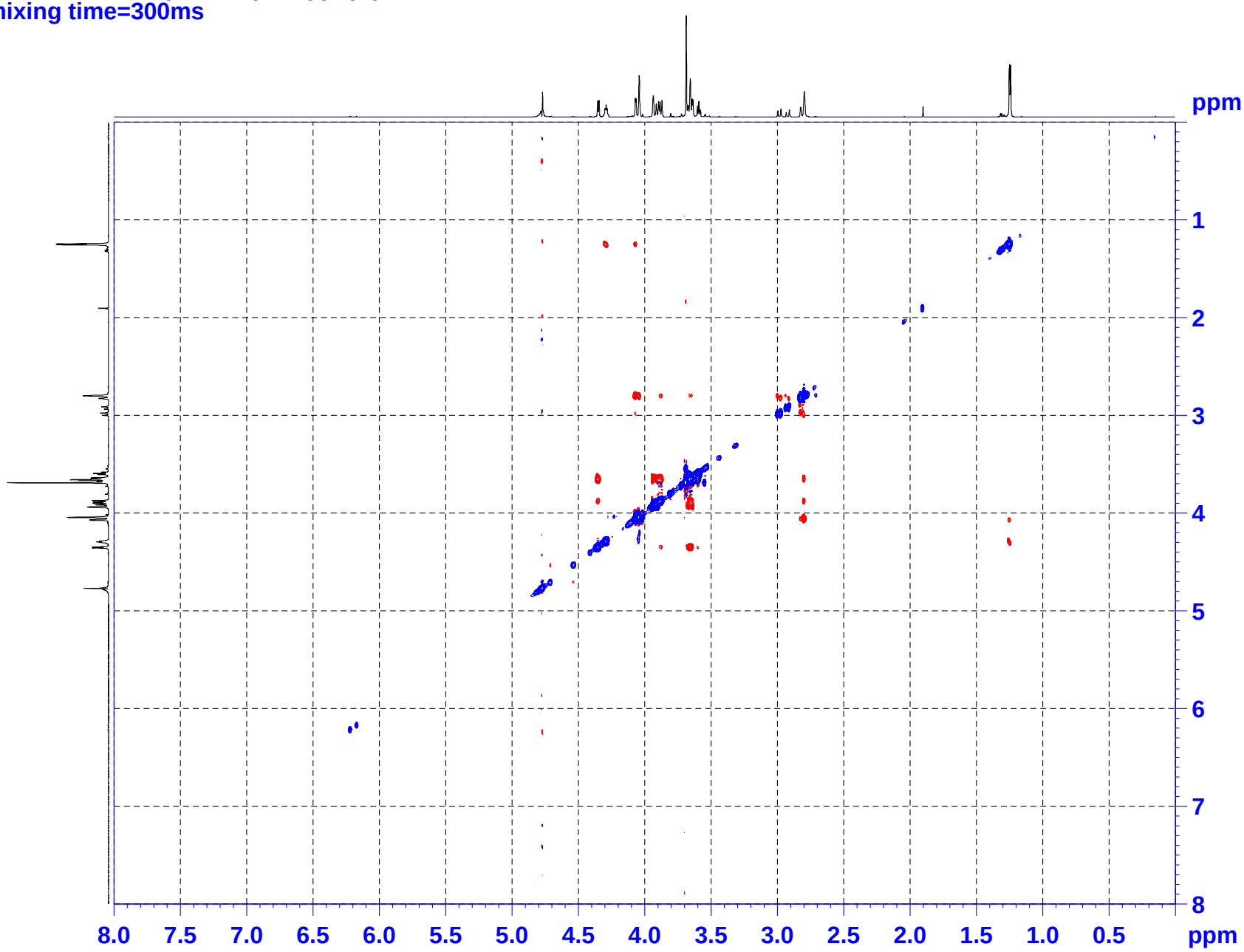

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               103
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              18.38
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       noesyphpr
TD                2048
SOLVENT            D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                  128
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0            0.00005012 sec
D1            2.00000000 sec
D8            0.50000000 sec
d11           0.03000000 sec
d12           0.00002000 sec
d13           0.00000400 sec
IN0           0.00013080 sec
ST1CNT               128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
PL1               -3.00 dB
PL9               65.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1          750.1335 MHz
FIDRES       29.864296 Hz
SW              10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                0.00 Hz
GB                    0
PC                1.00

F1 - Processing parameters
SI                 1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                0.00 Hz
GB                    0
```

sakamoto750_01.103.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H NOESY with presat. (noesyphpr):CPTCI−Z
mixing time=500ms



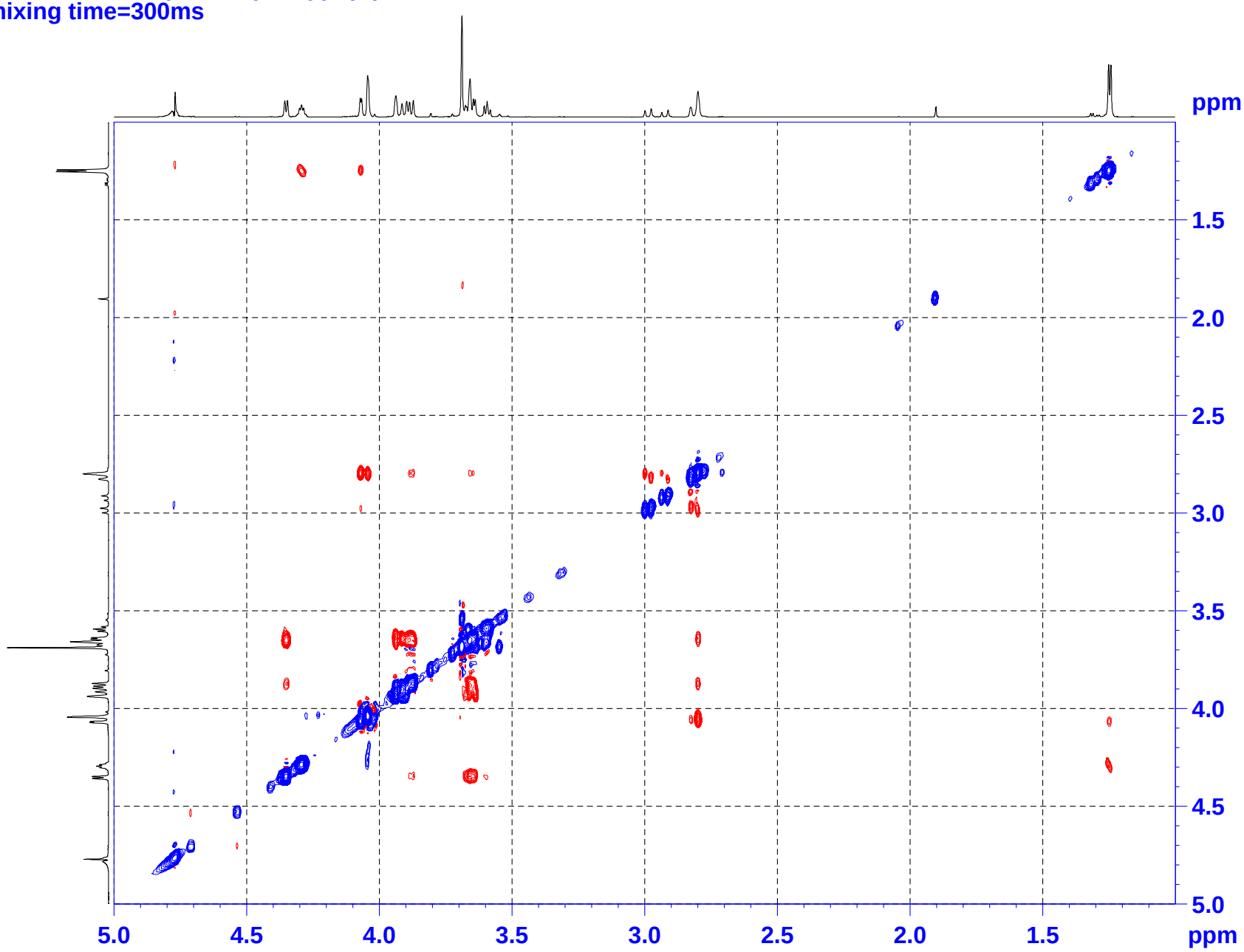

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               103
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              18.38
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       noesyphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                  128
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0            0.00005012 sec
D1            2.00000000 sec
D8            0.50000000 sec
d11           0.03000000 sec
d12           0.00002000 sec
d13           0.00000400 sec
IN0           0.00013080 sec
ST1CNT               128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
PL1               -3.00 dB
PL9               65.00 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1          750.1335 MHz
FIDRES        29.864296 Hz
SW               10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2         States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.104.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H ROESY with presat. (roesyphpr):CPTCI−Z
mixing time=300ms



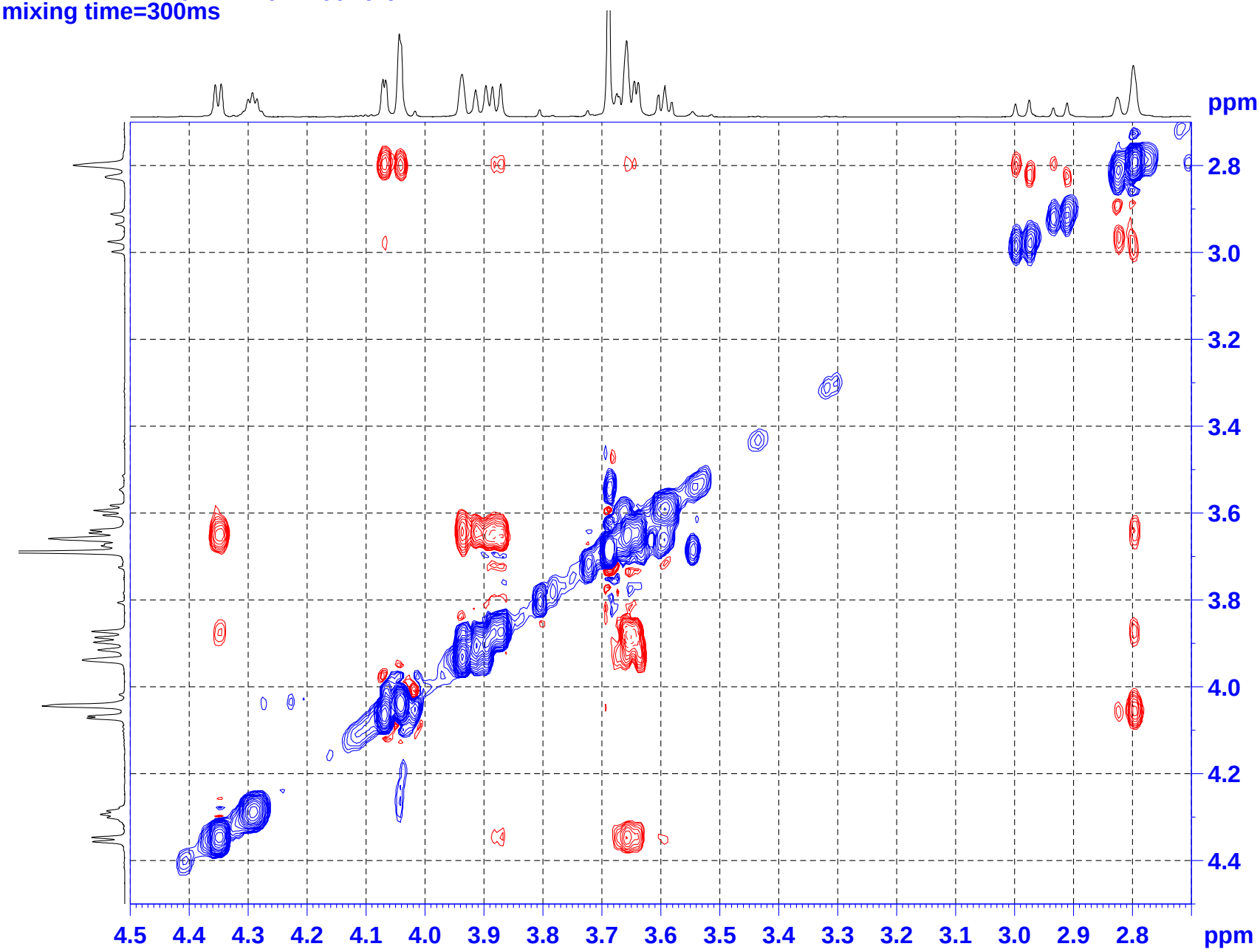

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               104
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              20.10
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       roesyphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH            7645.260 Hz
FIDRES         3.733037 Hz
AQ             0.1339892 sec
RG                 4096
DW               65.400 usec
DE                6.00 usec
TE               300.6 K
d0          0.00005376 sec
D1          2.00000000 sec
d11         0.03000000 sec
d12         0.00002000 sec
d13         0.00000400 sec
IN0         0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                1H
P1              12.00 usec
P15           300000.00 usec
PL1              -3.00 dB
PL9              65.00 dB
PL11             16.45 dB
SFO1       750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1          750.1335 MHz
FIDRES        29.864296 Hz
SW              10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                 2048
SF         750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2         States-TPPI
SF         750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.104.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H ROESY with presat. (roesyphpr):CPTCI−Z
mixing time=300ms



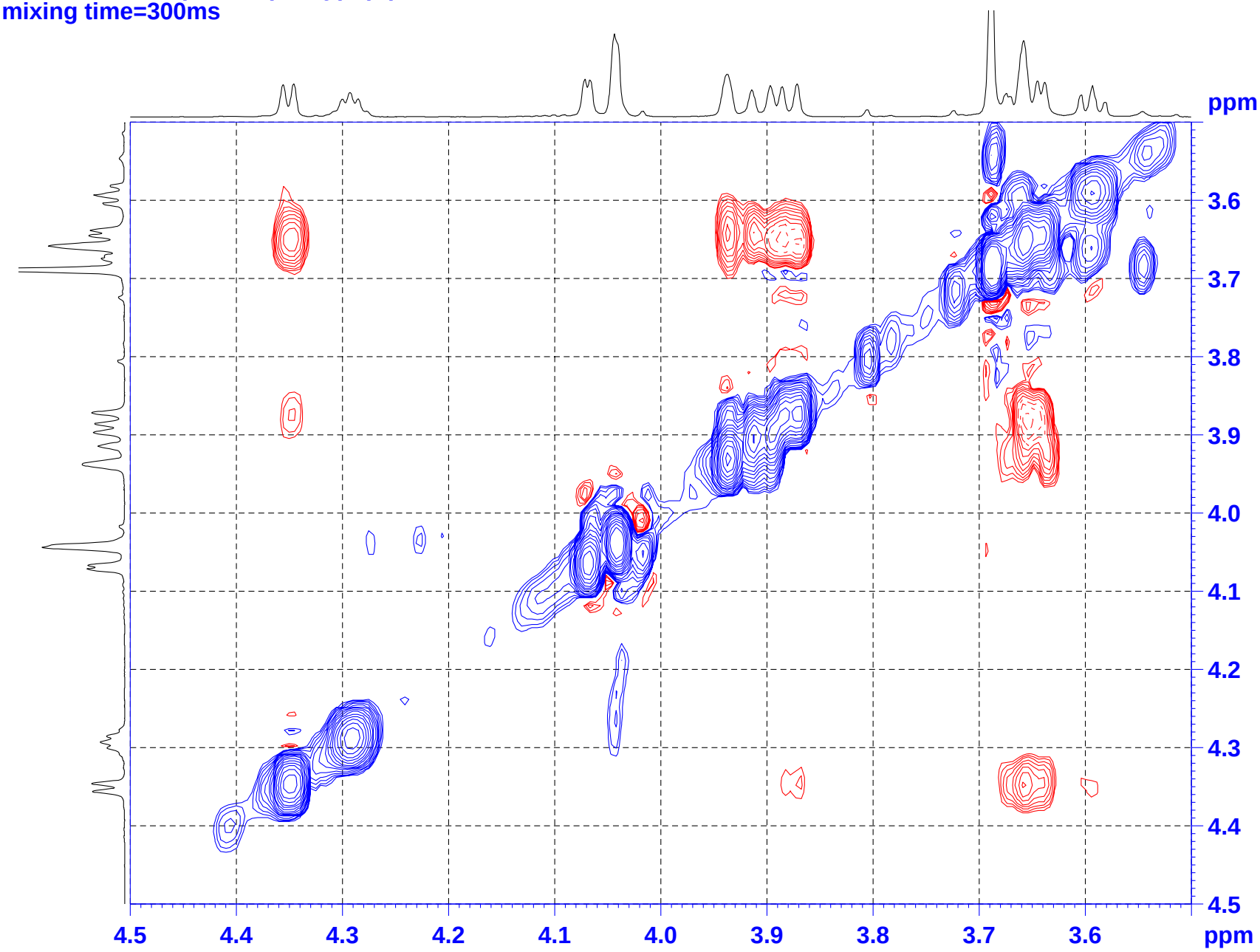

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               104
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              20.10
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       roesyphpr
TD                2048
SOLVENT            D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES           3.733037 Hz
AQ            0.1339892 sec
RG                 4096
DW               65.400 usec
DE                6.00 usec
TE               300.6 K
d0           0.00005376 sec
D1           2.00000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
IN0          0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                1H
P1                12.00 usec
P15           300000.00 usec
PL1               -3.00 dB
PL9               65.00 dB
PL11              16.45 dB
SFO1         750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1          750.1335 MHz
FIDRES         29.864296 Hz
SW               10.192 ppm
FnMODE       States-TPPI

F2 - Processing parameters
SI                 2048
SF           750.1299484 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2          States-TPPI
SF           750.1299484 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.104.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H ROESY with presat. (roesyphpr):CPTCI−Z
mixing time=300ms




```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               104
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              20.10
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       roesyphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH            7645.260 Hz
FIDRES         3.733037 Hz
AQ             0.1339892 sec
RG                 4096
DW               65.400 usec
DE                6.00 usec
TE               300.6 K
d0           0.00005376 sec
D1           2.00000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
IN0          0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                1H
P1              12.00 usec
P15           300000.00 usec
PL1              -3.00 dB
PL9              65.00 dB
PL11             16.45 dB
SFO1       750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1         750.1335 MHz
FIDRES        29.864296 Hz
SW              10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                 2048
SF         750.1299484 MHz
WDW              QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2         States-TPPI
SF         750.1299484 MHz
WDW              QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.104.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H ROESY with presat. (roesyphpr):CPTCI−Z
mixing time=300ms



Current Data Parameters
NAME sakamoto750_01
EXPNO 104
PROCNO 1

F2 - Acquisition Parameters
Date_ 20101025
Time 20.10
INSTRUM spect
PROBHD 5 mm CPTCI 1H-
PULPROG roesyphpr
TD 2048
SOLVENT D2O
NS 8
DS 16
SWH 7645.260 Hz
FIDRES 3.733037 Hz
AQ 0.1339892 sec
RG 4096
DW 65.400 usec
DE 6.00 usec
TE 300.6 K
d0 0.00005376 sec
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec
d13 0.00000400 sec
IN0 0.00013080 sec
ST1CNT 128

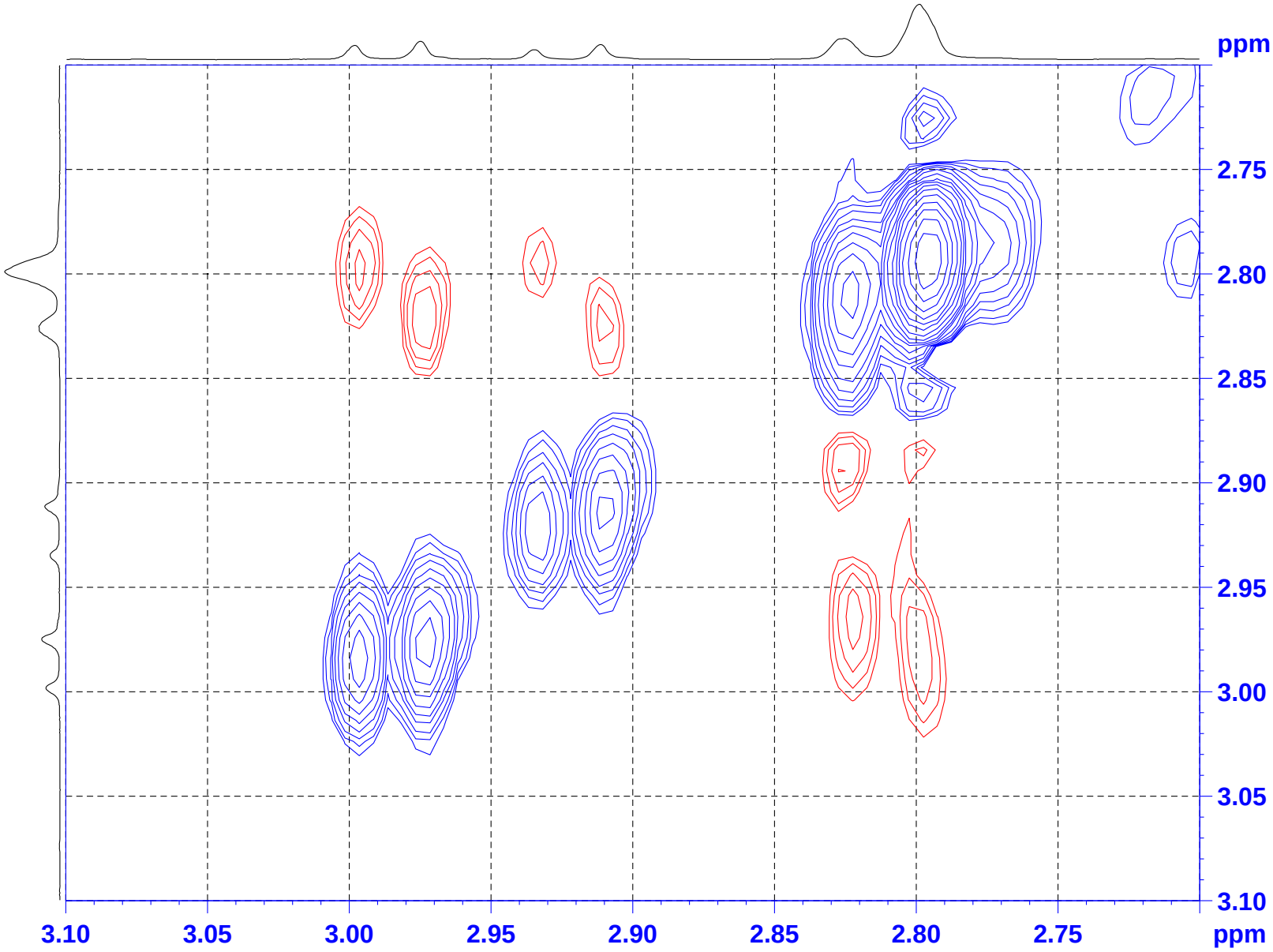
======== CHANNEL f1 ========
NUC1 1H
P1 12.00 usec
P15 300000.00 usec
PL1 -3.00 dB
PL9 65.00 dB
PL11 16.45 dB
SFO1 750.1335267 MHz

F1 - Acquisition parameters
ND0 1
TD 256
SFO1 750.1335 MHz
FIDRES 29.864296 Hz
SW 10.192 ppm
FnMODE States-TPPI

F2 - Processing parameters
SI 2048
SF 750.1299484 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0
PC 1.00

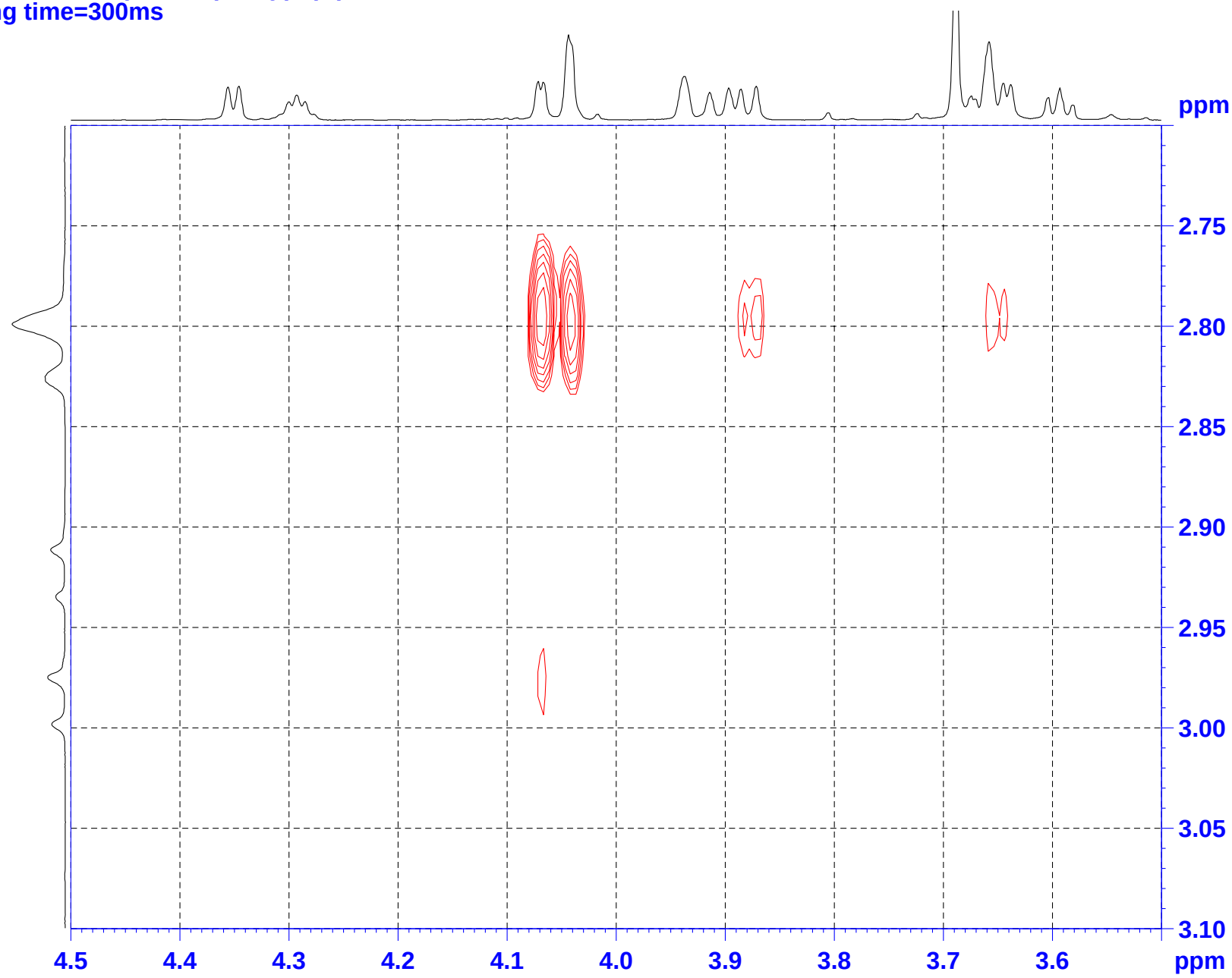
F1 - Processing parameters
SI 1024
MC2 States-TPPI
SF 750.1299484 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0

sakamoto750_01.104.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H ROESY with presat. (roesyphpr):CPTCI−Z
mixing time=300ms



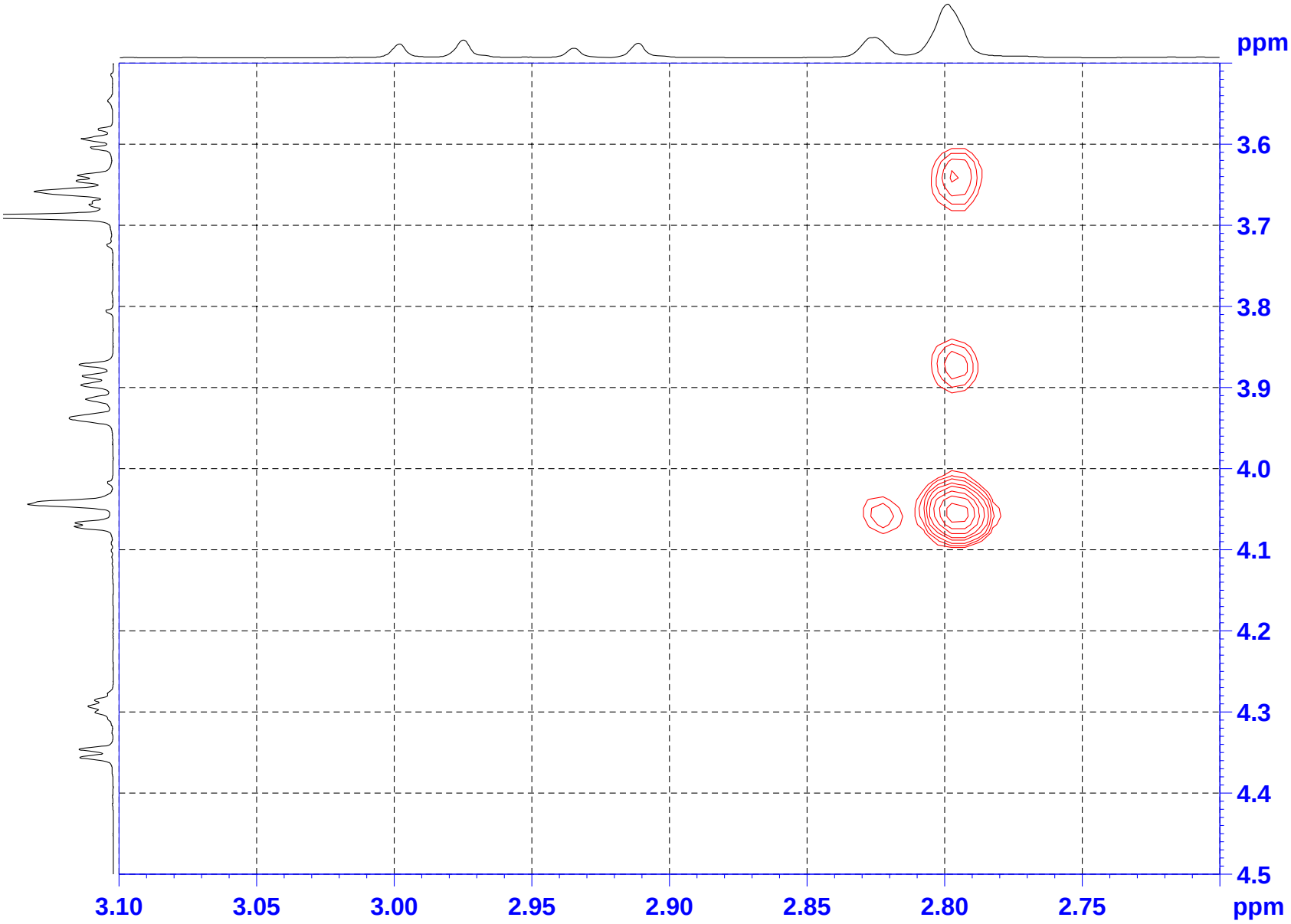

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               104
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              20.10
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       roesyphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH            7645.260 Hz
FIDRES            3.733037 Hz
AQ             0.1339892 sec
RG                 4096
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0           0.00005376 sec
D1           2.00000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
IN0          0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
P15             300000.00 usec
PL1                -3.00 dB
PL9                65.00 dB
PL11               16.45 dB
SFO1         750.1335267 MHz

F1 - Acquisition parameters
ND0                  1
TD                 256
SFO1          750.1335 MHz
FIDRES         29.864296 Hz
SW               10.192 ppm
FnMODE       States-TPPI

F2 - Processing parameters
SI                 2048
SF           750.1299484 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2          States-TPPI
SF           750.1299484 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.104.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H ROESY with presat. (roesyphpr):CPTCI−Z
mixing time=300ms



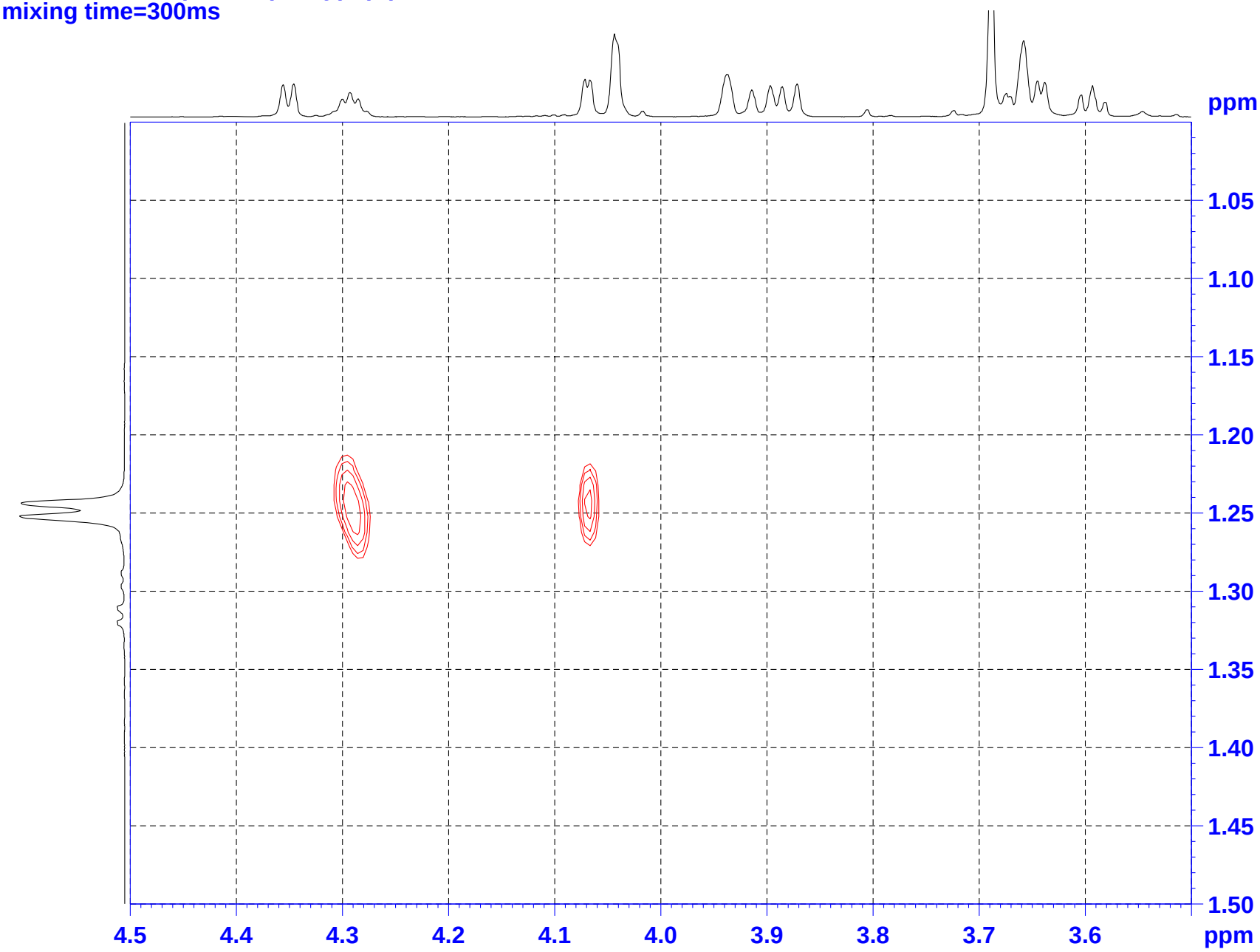

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               104
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              20.10
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       roesyphpr
TD                2048
SOLVENT            D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES           3.733037 Hz
AQ            0.1339892 sec
RG                 4096
DW               65.400 usec
DE                6.00 usec
TE               300.6 K
d0            0.00005376 sec
D1            2.00000000 sec
d11           0.03000000 sec
d12           0.00002000 sec
d13           0.00000400 sec
IN0           0.00013080 sec
ST1CNT               128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
P15             300000.00 usec
PL1               -3.00 dB
PL9               65.00 dB
PL11              16.45 dB
SFO1         750.1335267 MHz

F1 - Acquisition parameters
ND0                  1
TD                 256
SFO1          750.1335 MHz
FIDRES         29.864296 Hz
SW               10.192 ppm
FnMODE       States-TPPI

F2 - Processing parameters
SI                2048
SF           750.1299484 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
PC                1.00

F1 - Processing parameters
SI                1024
MC2          States-TPPI
SF           750.1299484 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
```

sakamoto750_01.104.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H ROESY with presat. (roesyphpr):CPTCI−Z
mixing time=300ms



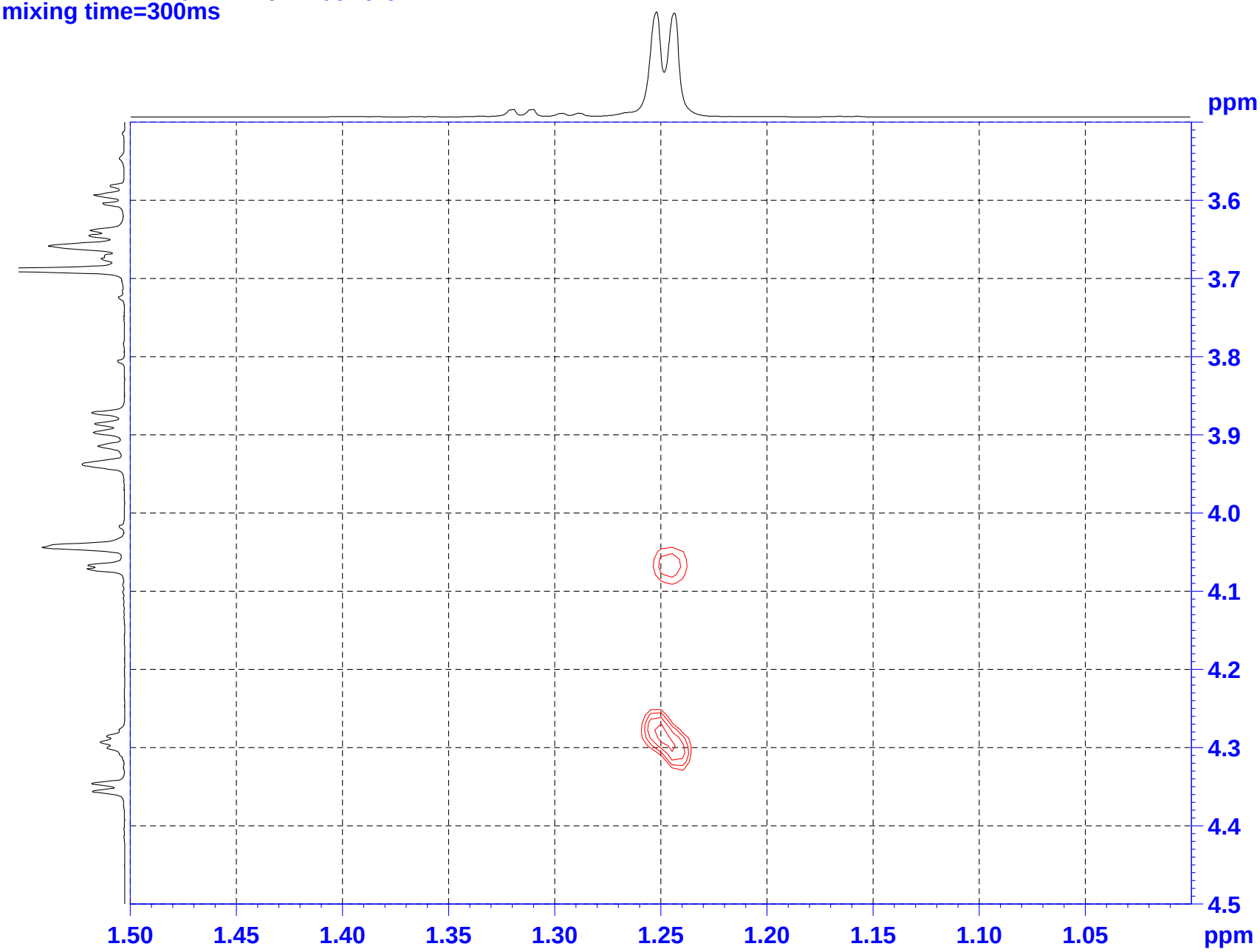

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                104
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101025
Time              20.10
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       roesyphpr
TD                2048
SOLVENT            D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES           3.733037 Hz
AQ            0.1339892 sec
RG                 4096
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0          0.00005376 sec
D1          2.00000000 sec
d11         0.03000000 sec
d12         0.00002000 sec
d13         0.00000400 sec
IN0         0.00013080 sec
ST1CNT             128

======== CHANNEL f1 ========
NUC1                1H
P1                12.00 usec
P15           300000.00 usec
PL1               -3.00 dB
PL9               65.00 dB
PL11              16.45 dB
SFO1        750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1          750.1335 MHz
FIDRES         29.864296 Hz
SW               10.192 ppm
FnMODE       States-TPPI

F2 - Processing parameters
SI                 2048
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2          States-TPPI
SF          750.1299484 MHz
WDW               QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.104.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H ROESY with presat. (roesyphpr):CPTCI−Z
mixing time=300ms



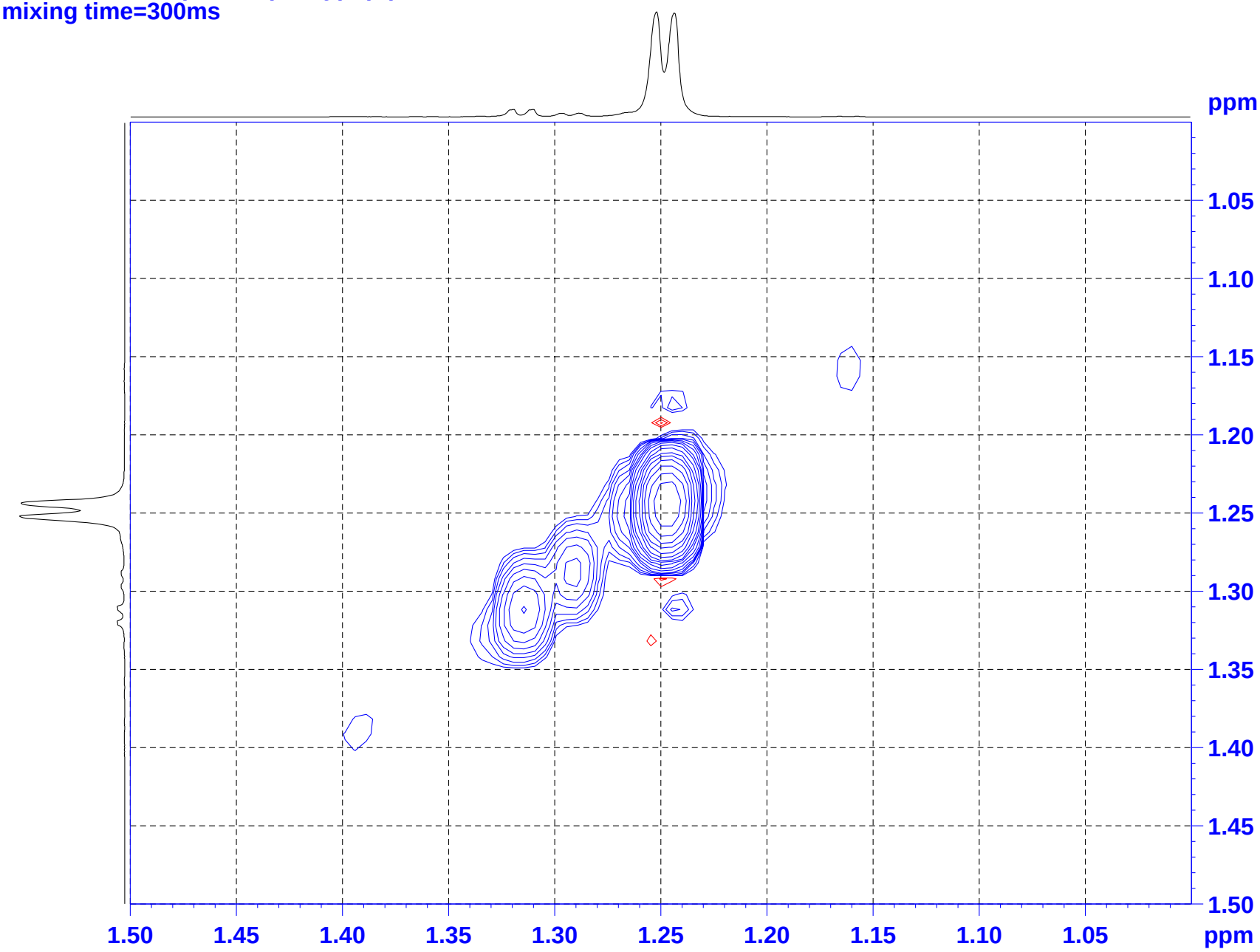

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                104
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101025
Time              20.10
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       roesyphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH            7645.260 Hz
FIDRES         3.733037 Hz
AQ             0.1339892 sec
RG                 4096
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0           0.00005376 sec
D1           2.00000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
IN0          0.00013080 sec
ST1CNT               128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
P15             300000.00 usec
PL1               -3.00 dB
PL9               65.00 dB
PL11              16.45 dB
SFO1         750.1335267 MHz

F1 - Acquisition parameters
ND0                  1
TD                 256
SFO1          750.1335 MHz
FIDRES        29.864296 Hz
SW              10.192 ppm
FnMODE      States-TPPI

F2 - Processing parameters
SI                2048
SF           750.1299484 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
PC                1.00

F1 - Processing parameters
SI                1024
MC2         States-TPPI
SF           750.1299484 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
```

sakamoto750_01.104.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H ROESY with presat. (roesyphpr):CPTCI−Z
mixing time=300ms



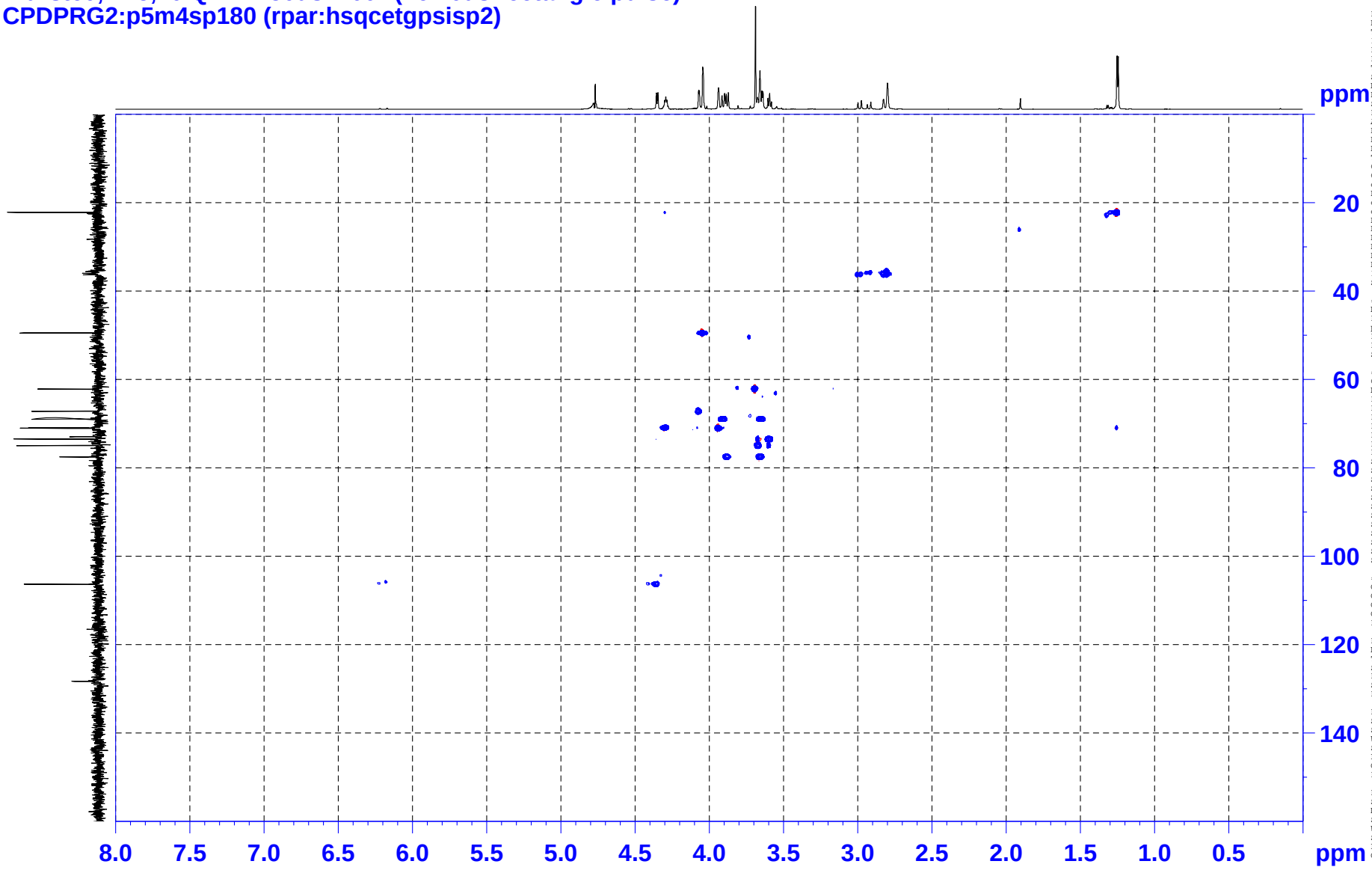

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               104
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              20.10
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       roesyphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH            7645.260 Hz
FIDRES            3.733037 Hz
AQ             0.1339892 sec
RG                 4096
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0           0.00005376 sec
D1           2.00000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
IN0          0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
P15           300000.00 usec
PL1               -3.00 dB
PL9               65.00 dB
PL11              16.45 dB
SFO1         750.1335267 MHz

F1 - Acquisition parameters
ND0                  1
TD                 256
SFO1          750.1335 MHz
FIDRES         29.864296 Hz
SW               10.192 ppm
FnMODE       States-TPPI

F2 - Processing parameters
SI                 2048
SF           750.1299484 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2          States-TPPI
SF           750.1299484 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.104.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H ROESY with presat. (roesyphpr):CPTCI−Z
mixing time=300ms



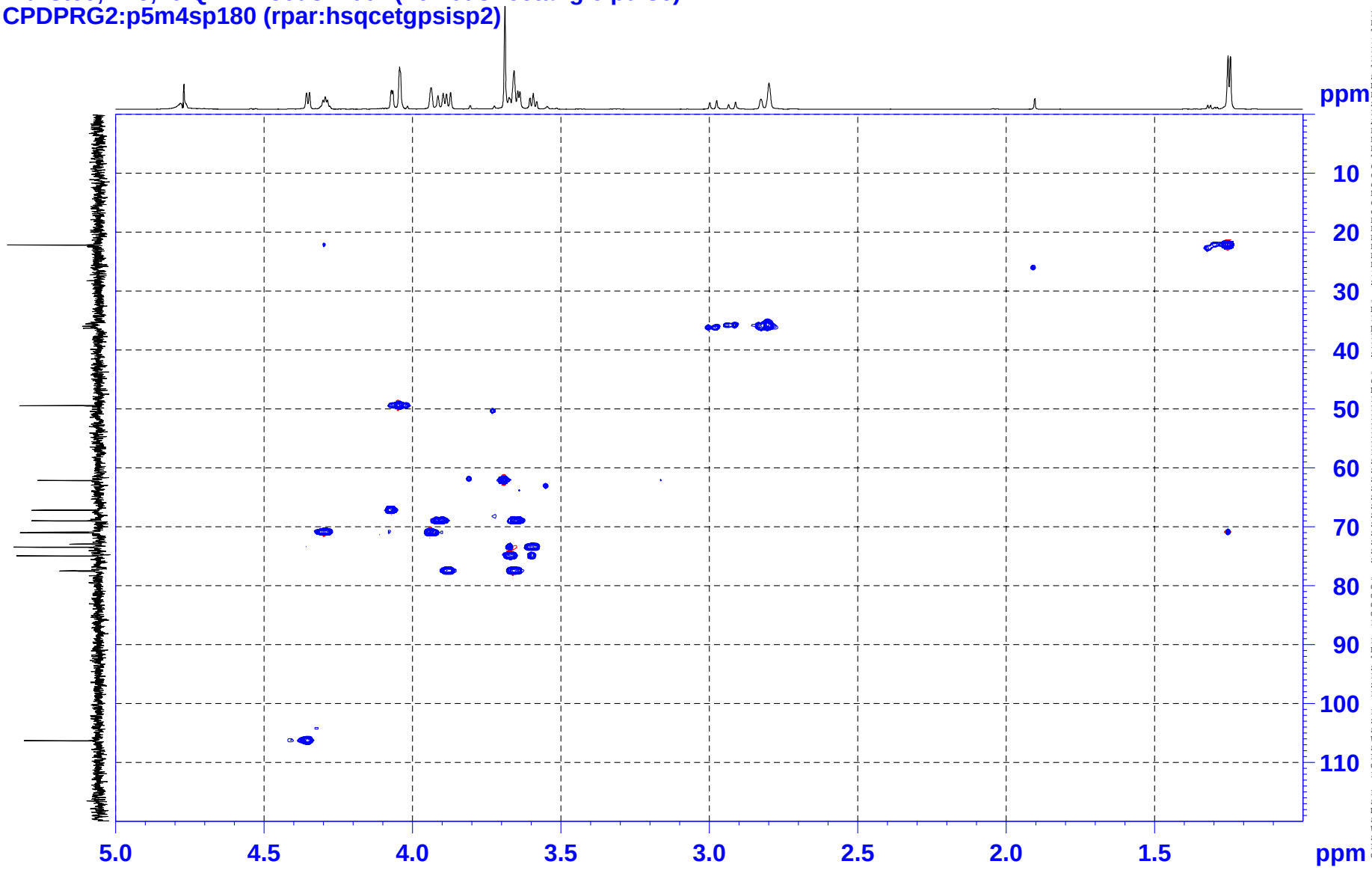

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                104
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101025
Time              20.10
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG       roesyphpr
TD                 2048
SOLVENT             D2O
NS                    8
DS                   16
SWH            7645.260 Hz
FIDRES            3.733037 Hz
AQ             0.1339892 sec
RG                 4096
DW               65.400 usec
DE                6.00 usec
TE                300.6 K
d0           0.00005376 sec
D1           2.00000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
d13          0.00000400 sec
IN0          0.00013080 sec
ST1CNT              128

======== CHANNEL f1 ========
NUC1                 1H
P1                12.00 usec
P15             300000.00 usec
PL1               -3.00 dB
PL9               65.00 dB
PL11              16.45 dB
SFO1         750.1335267 MHz

F1 - Acquisition parameters
ND0                   1
TD                  256
SFO1           750.1335 MHz
FIDRES          29.864296 Hz
SW                10.192 ppm
FnMODE       States-TPPI

F2 - Processing parameters
SI                 2048
SF           750.1299484 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.00

F1 - Processing parameters
SI                 1024
MC2          States-TPPI
SF           750.1299484 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.105.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HSQC (hsqcetgpsisp.2):CPTCI−Z
p28:0.1us
sp3:Crp80,0.5,20.1 −1.77dB(=22.2us rectangle pulse)
sp7:Crp80comp.4 −1.77dB(=22.2us rectangle pulse)
Wurst60,1.25,20 Q=2 1250us 7.00B(=64.0us rectangle pulse)
CPDPRG2:p5m4sp180 (rpar:hsqcetgpsisp2)



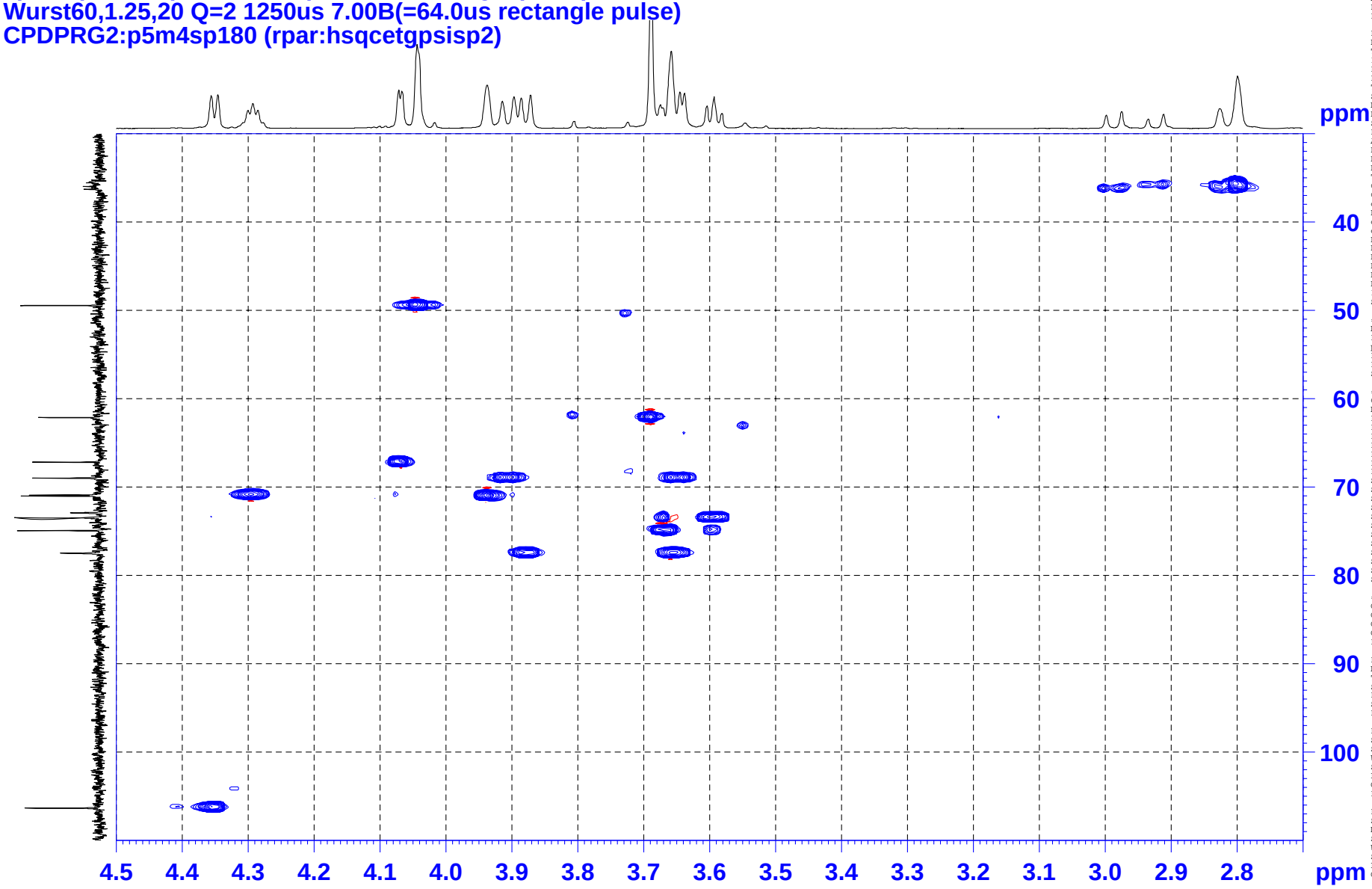

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               105
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              21.35
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG  hsqcetgpsisp.2
TD                2048
SOLVENT            D2O
NS                   8
DS                  16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                32768
DW               65.400 use
DE                6.00 use
TE               300.6 K
CNST2        145.0000000
CNST17        -0.5000000
d0            0.00000300 sec
D1            1.50000000 sec
d4            0.00172414 sec
d11           0.03000000 sec
D16           0.00020000 sec
D24           0.00086207 sec
DELTA         0.00122600 sec
DELTA1        0.00120800 sec
DELTA2        0.00147014 sec
DELTA3        0.00135807 sec
IN0           0.00001600 sec
ST1CNT               128

======== CHANNEL f1 =======
NUC1                 1H
P1                12.00 use
p2                24.00 use
P28                0.10 use
PL1               -3.00 dB
SFO1        750.1335267 MHz

======== CHANNEL f2 =======
CPDPRG2         p5m4sp180
NUC2                13C
P3                15.20 use
P14              500.00 use
P24             2000.00 use
PCPD2           1250.00 use
PL0              120.00 dB
PL2               -4.90 dB
PL12               7.20 dB
SFO2        188.6344855 MHz
SP3               -1.65 dB
SP7               -1.65 dB
SPNAM3    Crp80,0.5,20.1
SPNAM7      Crp80comp.4
SPNAM15  Wurst60,1.25,20
SPOAL3            0.500
SPOAL7            0.500
SPOAL15           0.500
SPOFFS3           0.00 Hz
SPOFFS7           0.00 Hz
SPOFFS15          0.00 Hz

====== GRADIENT CHANNEL ===
GPNAM1          SINE.100
GPNAM2          SINE.100
GPZ1              80.00 %
GPZ2              20.10 %
P16             1000.00 use

F1 - Acquisition parameters
ND0                  2
TD                 256
SFO1        188.6345 MHz
FIDRES      122.070312 Hz
SW             165.664 ppm
FnMODE    Echo-Antiecho

F2 - Processing parameters
SI                1024
SF          750.1299425 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2       echo-antiecho
SF        188.6198149 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
```

sakamoto750_01.105.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HSQC (hsqcetgpsisp.2):CPTCI−Z
p28:0.1us
sp3:Crp80,0.5,20.1 −1.77dB(=22.2us rectangle pulse)
sp7:Crp80comp.4 −1.77dB(=22.2us rectangle pulse)
Wurst60,1.25,20 Q=2 1250us 7.00B(=64.0us rectangle pulse)
CPDPRG2:p5m4sp180 (rpar:hsqcetgpsisp2)



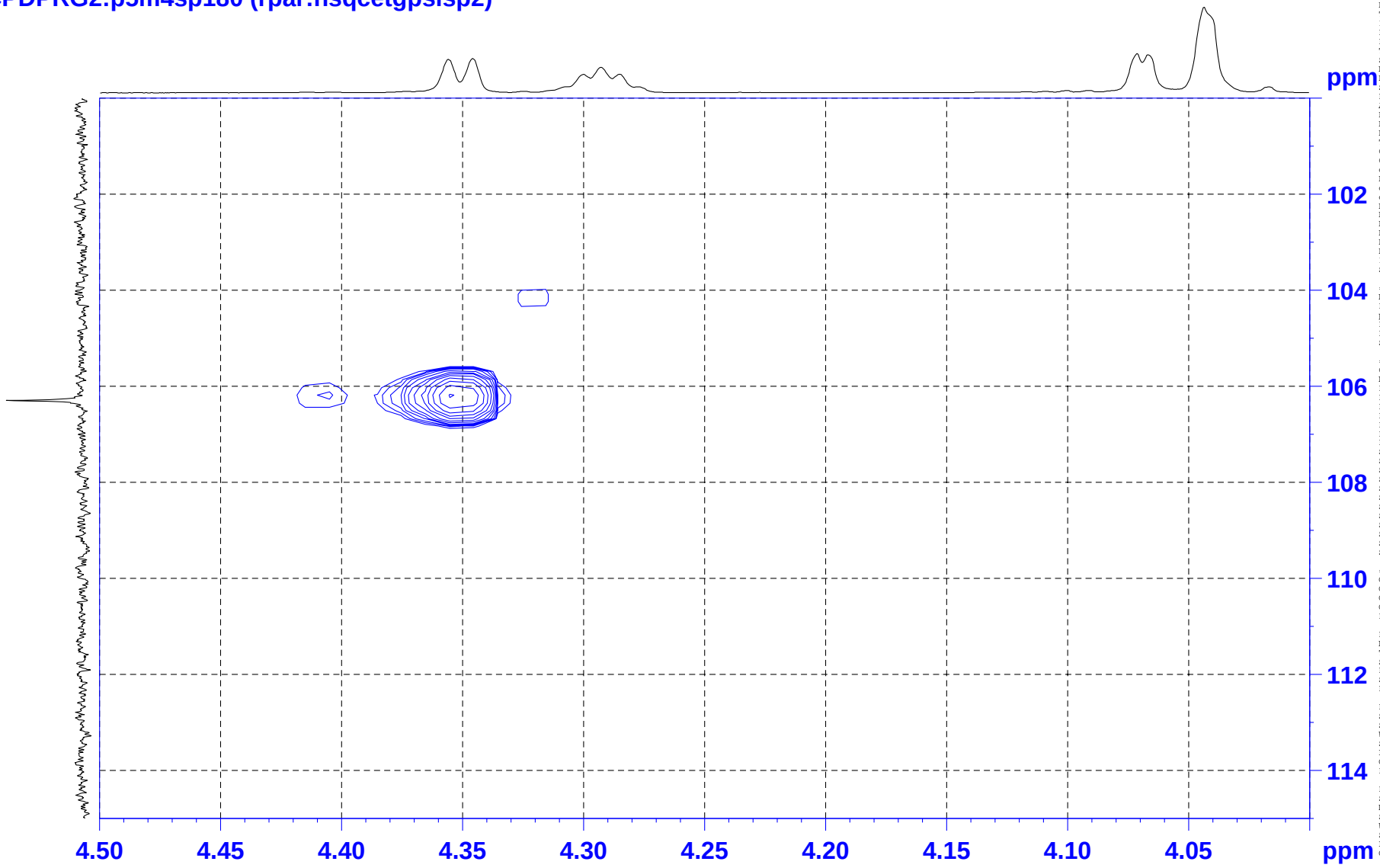

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO              105
PROCNO               1

F2 - Acquisition Parameters
Date_          20101025
Time             21.35
INSTRUM          spect
PROBHD   5 mm CPTCI 1H-
PULPROG  hsqcetgpsisp.2
TD               2048
SOLVENT           D2O
NS                  8
DS                 16
SWH          7645.260 Hz
FIDRES       3.733037 Hz
AQ           0.1339892 sec
RG               32768
DW              65.400 use
DE               6.00 use
TE              300.6 K
CNST2       145.0000000
CNST17       -0.5000000
d0           0.00000300 sec
D1           1.50000000 sec
d4           0.00172414 sec
d11          0.03000000 sec
D16          0.00020000 sec
D24          0.00086207 sec
DELTA        0.00122600 sec
DELTA1       0.00120800 sec
DELTA2       0.00147014 sec
DELTA3       0.00135807 sec
IN0          0.00001600 sec
ST1CNT             128

======== CHANNEL f1 =======
NUC1               1H
P1               12.00 use
p2               24.00 use
P28               0.10 use
PL1              -3.00 dB
SFO1       750.1335267 MHz

======== CHANNEL f2 =======
CPDPRG2        p5m4sp180
NUC2               13C
P3               15.20 use
P14             500.00 use
P24            2000.00 use
PCPD2          1250.00 use
PL0             120.00 dB
PL2              -4.90 dB
PL12              7.20 dB
SFO2       188.6344855 MHz
SP3              -1.65 dB
SP7              -1.65 dB
SPNAM3    Crp80,0.5,20.1
SPNAM7      Crp80comp.4
SPNAM15  Wurst60,1.25,20
SPOAL3            0.500
SPOAL7            0.500
SPOAL15           0.500
SPOFFS3           0.00 Hz
SPOFFS7           0.00 Hz
SPOFFS15          0.00 Hz

====== GRADIENT CHANNEL ===
GPNAM1         SINE.100
GPNAM2         SINE.100
GPZ1             80.00 %
GPZ2             20.10 %
P16            1000.00 use

F1 - Acquisition parameters
ND0                 2
TD                256
SFO1       188.6345 MHz
FIDRES     122.070312 Hz
SW         165.664 ppm
FnMODE    Echo-Antiecho

F2 - Processing parameters
SI                1024
SF         750.1299425 MHz
WDW               QSINE
SSB                 2
LB               0.00 Hz
GB                  0
PC               1.40

F1 - Processing parameters
SI                1024
MC2       echo-antiecho
SF         188.6198149 MHz
WDW               QSINE
SSB                 2
LB               0.00 Hz
GB                  0
```

sakamoto750_01.105.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HSQC (hsqcetgpsisp.2):CPTCI−Z
p28:0.1us
sp3:Crp80,0.5,20.1 −1.77dB(=22.2us rectangle pulse)
sp7:Crp80comp.4 −1.77dB(=22.2us rectangle pulse)
Wurst60,1.25,20 Q=2 1250us 7.00B(=64.0us rectangle pulse)
CPDPRG2:p5m4sp180 (rpar:hsqcetgpsisp2)



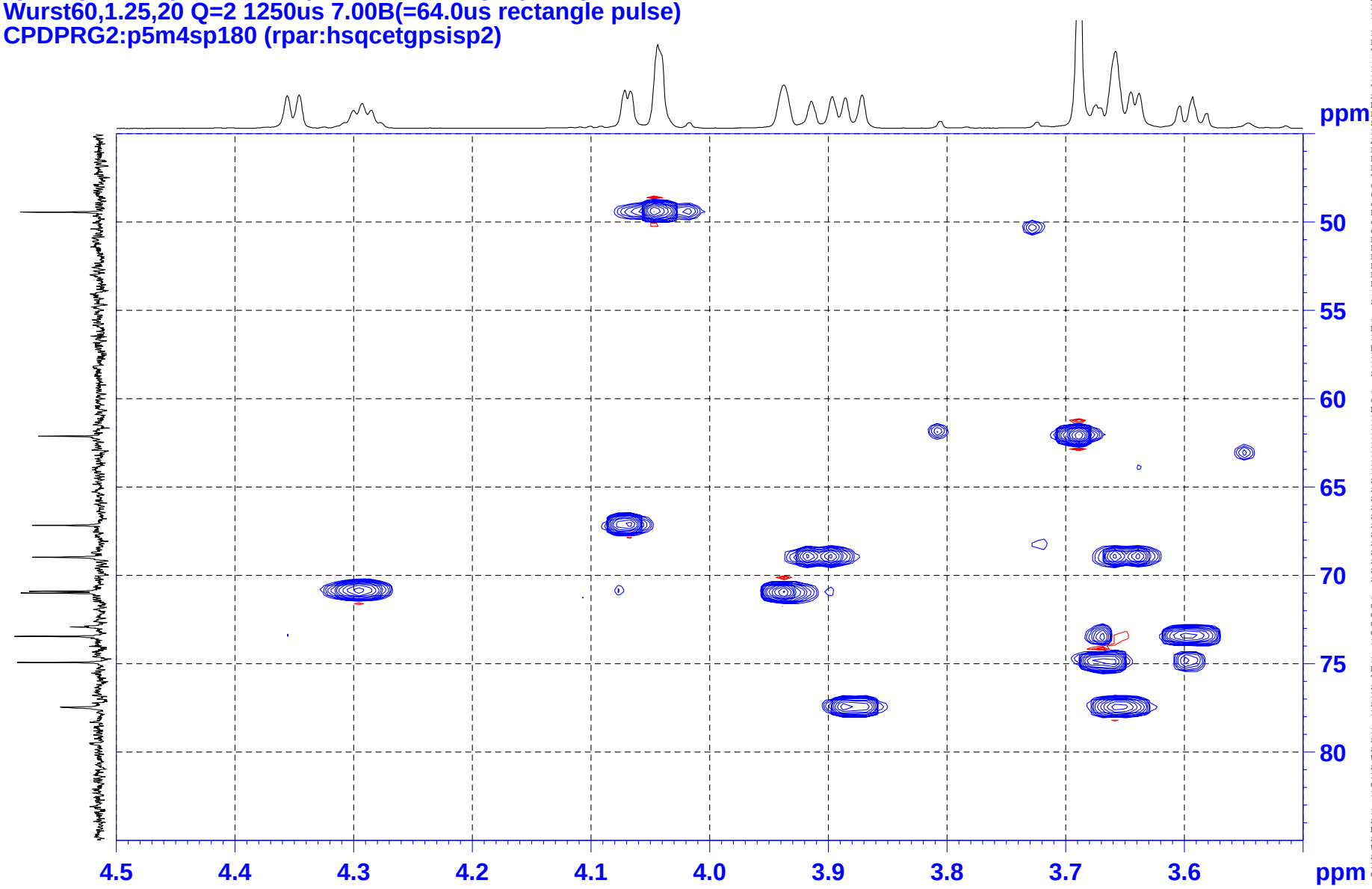

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               105
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              21.35
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG  hsqcetgpsisp.2
TD                2048
SOLVENT            D2O
NS                   8
DS                  16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ           0.1339892 sec
RG               32768
DW              65.400 use
DE               6.00 use
TE              300.6 K
CNST2       145.0000000
CNST17       -0.5000000
d0           0.00000300 sec
D1           1.50000000 sec
d4           0.00172414 sec
d11          0.03000000 sec
D16          0.00020000 sec
D24          0.00086207 sec
DELTA        0.00122600 sec
DELTA1       0.00120800 sec
DELTA2       0.00147014 sec
DELTA3       0.00135807 sec
IN0          0.00001600 sec
ST1CNT              128

======== CHANNEL f1 =======
NUC1                1H
P1                12.00 use
p2                24.00 use
P28               0.10 use
PL1              -3.00 dB
SFO1       750.1335267 MHz

======== CHANNEL f2 =======
CPDPRG2        p5m4sp180
NUC2                13C
P3                15.20 use
P14              500.00 use
P24             2000.00 use
PCPD2           1250.00 use
PL0              120.00 dB
PL2               -4.90 dB
PL12               7.20 dB
SFO2       188.6344855 MHz
SP3               -1.65 dB
SP7               -1.65 dB
SPNAM3    Crp80,0.5,20.1
SPNAM7      Crp80comp.4
SPNAM15  Wurst60,1.25,20
SPOAL3             0.500
SPOAL7             0.500
SPOAL15            0.500
SPOFFS3            0.00 Hz
SPOFFS7            0.00 Hz
SPOFFS15           0.00 Hz

====== GRADIENT CHANNEL ===
GPNAM1          SINE.100
GPNAM2          SINE.100
GPZ1              80.00 %
GPZ2              20.10 %
P16             1000.00 use

F1 - Acquisition parameters
ND0                  2
TD                 256
SFO1       188.6345 MHz
FIDRES     122.070312 Hz
SW            165.664 ppm
FnMODE    Echo-Antiecho

F2 - Processing parameters
SI                1024
SF         750.1299425 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2       echo-antiecho
SF         188.6198149 MHz
WDW               QSINE
SSB                  2
LB                0.00 Hz
GB                   0
```

sakamoto750_01.105.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HSQC (hsqcetgpsisp.2):CPTCI−Z
p28:0.1us
sp3:Crp80,0.5,20.1 −1.77dB(=22.2us rectangle pulse)
sp7:Crp80comp.4 −1.77dB(=22.2us rectangle pulse)
Wurst60,1.25,20 Q=2 1250us 7.00B(=64.0us rectangle pulse)
CPDPRG2:p5m4sp180 (rpar:hsqcetgpsisp2)



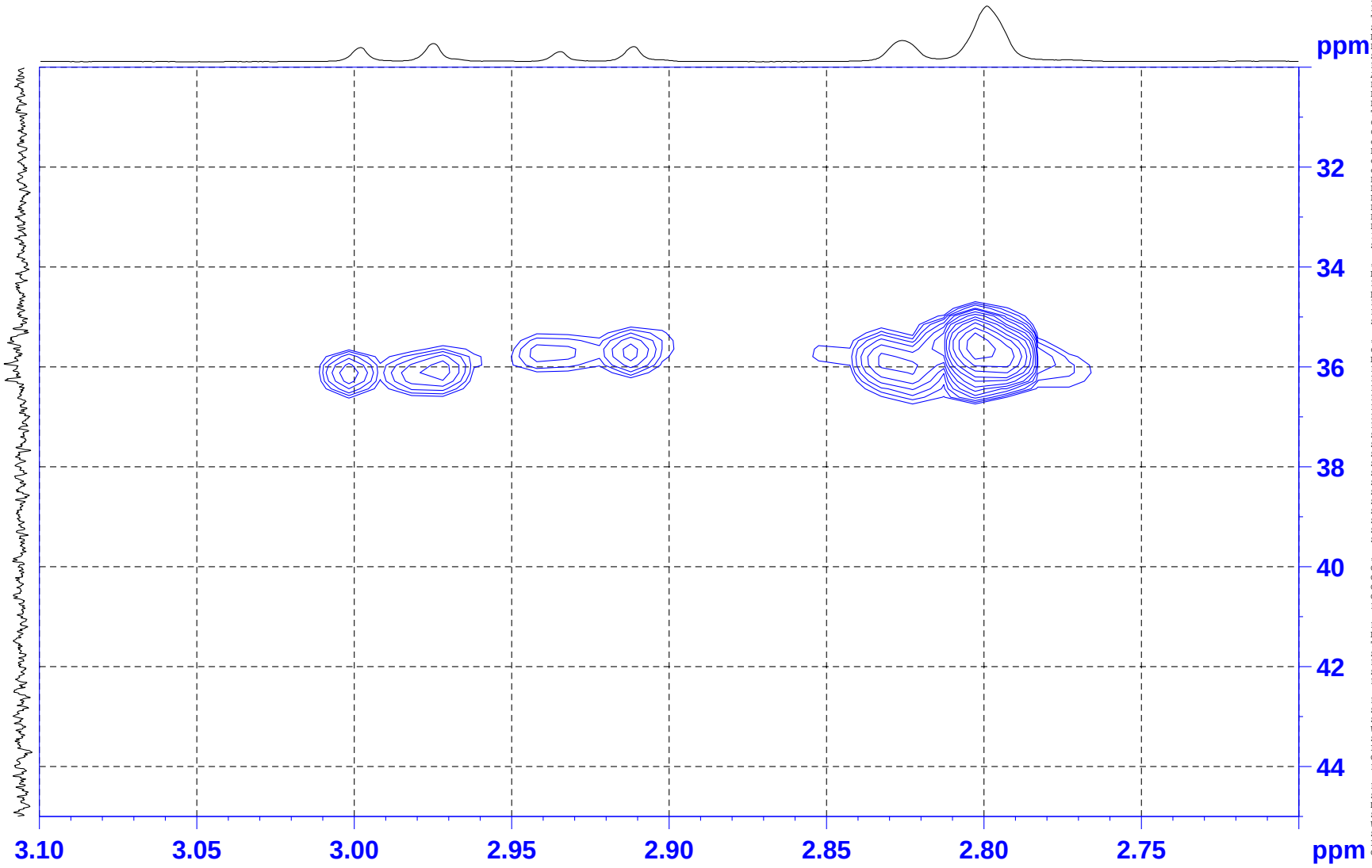

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO              105
PROCNO               1

F2 - Acquisition Parameters
Date_          20101025
Time             21.35
INSTRUM          spect
PROBHD   5 mm CPTCI 1H-
PULPROG  hsqcetgpsisp.2
TD               2048
SOLVENT           D2O
NS                  8
DS                 16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                32768
DW               65.400 use
DE                6.00 use
TE              300.6 K
CNST2        145.0000000
CNST17        -0.5000000
d0             0.00000300 sec
D1             1.50000000 sec
d4             0.00172414 sec
d11            0.03000000 sec
D16            0.00020000 sec
D24            0.00086207 sec
DELTA          0.00122600 sec
DELTA1         0.00120800 sec
DELTA2         0.00147014 sec
DELTA3         0.00135807 sec
IN0            0.00001600 sec
ST1CNT              128

======== CHANNEL f1 =======
NUC1                1H
P1                12.00 use
p2                24.00 use
P28                0.10 use
PL1               -3.00 dB
SFO1         750.1335267 MHz

======== CHANNEL f2 =======
CPDPRG2         p5m4sp180
NUC2                13C
P3                15.20 use
P14              500.00 use
P24             2000.00 use
PCPD2           1250.00 use
PL0              120.00 dB
PL2               -4.90 dB
PL12               7.20 dB
SFO2         188.6344855 MHz
SP3               -1.65 dB
SP7               -1.65 dB
SPNAM3    Crp80,0.5,20.1
SPNAM7       Crp80comp.4
SPNAM15  Wurst60,1.25,20
SPOAL3             0.500
SPOAL7             0.500
SPOAL15            0.500
SPOFFS3            0.00 Hz
SPOFFS7            0.00 Hz
SPOFFS15           0.00 Hz

====== GRADIENT CHANNEL ===
GPNAM1          SINE.100
GPNAM2          SINE.100
GPZ1               80.00 %
GPZ2               20.10 %
P16              1000.00 use

F1 - Acquisition parameters
ND0                   2
TD                  256
SFO1          188.6345 MHz
FIDRES        122.070312 Hz
SW               165.664 ppm
FnMODE    Echo-Antiecho

F2 - Processing parameters
SI                 1024
SF           750.1299425 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.40

F1 - Processing parameters
SI                 1024
MC2        echo-antiecho
SF           188.6198149 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.105.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HSQC (hsqcetgpsisp.2):CPTCI−Z
p28:0.1us
sp3:Crp80,0.5,20.1 −1.77dB(=22.2us rectangle pulse)
sp7:Crp80comp.4 −1.77dB(=22.2us rectangle pulse)
Wurst60,1.25,20 Q=2 1250us 7.00B(=64.0us rectangle pulse)
CPDPRG2:p5m4sp180 (rpar:hsqcetgpsisp2)



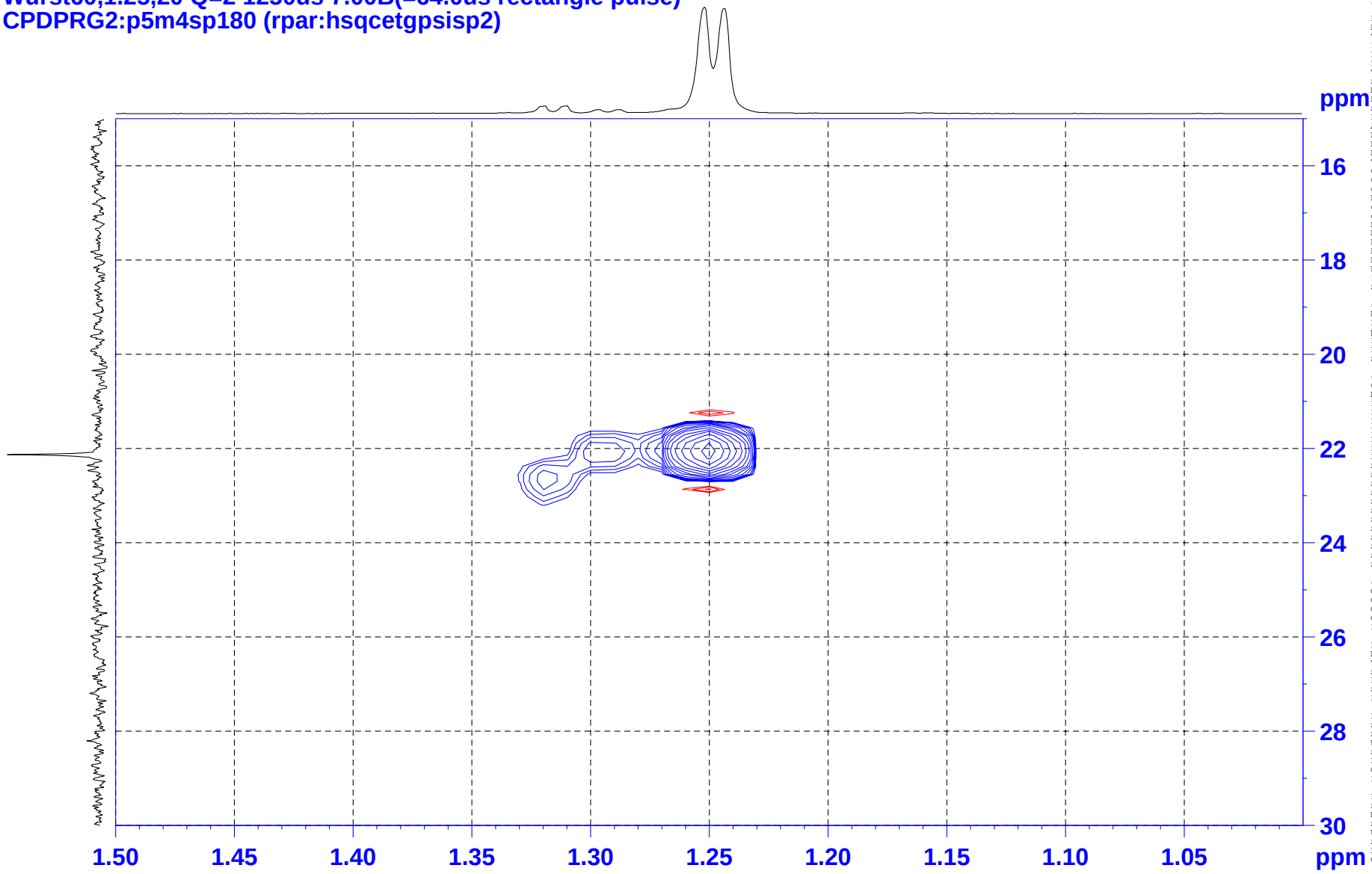

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               105
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              21.35
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG  hsqcetgpsisp.2
TD                2048
SOLVENT            D2O
NS                   8
DS                  16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                32768
DW               65.400 use
DE                6.00 use
TE               300.6 K
CNST2        145.0000000
CNST17        -0.5000000
d0             0.00000300 sec
D1             1.50000000 sec
d4             0.00172414 sec
d11            0.03000000 sec
D16            0.00020000 sec
D24            0.00086207 sec
DELTA          0.00122600 sec
DELTA1         0.00120800 sec
DELTA2         0.00147014 sec
DELTA3         0.00135807 sec
IN0            0.00001600 sec
ST1CNT              128

======== CHANNEL f1 =======
NUC1                1H
P1                12.00 use
p2                24.00 use
P28                0.10 use
PL1               -3.00 dB
SFO1        750.1335267 MHz

======== CHANNEL f2 =======
CPDPRG2         p5m4sp180
NUC2                13C
P3                15.20 use
P14              500.00 use
P24             2000.00 use
PCPD2           1250.00 use
PL0              120.00 dB
PL2               -4.90 dB
PL12               7.20 dB
SFO2        188.6344855 MHz
SP3               -1.65 dB
SP7               -1.65 dB
SPNAM3    Crp80,0.5,20.1
SPNAM7      Crp80comp.4
SPNAM15  Wurst60,1.25,20
SPOAL3             0.500
SPOAL7             0.500
SPOAL15            0.500
SPOFFS3            0.00 Hz
SPOFFS7            0.00 Hz
SPOFFS15           0.00 Hz

====== GRADIENT CHANNEL ===
GPNAM1          SINE.100
GPNAM2          SINE.100
GPZ1               80.00 %
GPZ2               20.10 %
P16              1000.00 use

F1 - Acquisition parameters
ND0                   2
TD                  256
SFO1        188.6345 MHz
FIDRES      122.070312 Hz
SW             165.664 ppm
FnMODE    Echo-Antiecho

F2 - Processing parameters
SI                 1024
SF          750.1299425 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.40

F1 - Processing parameters
SI                 1024
MC2        echo-antiecho
SF          188.6198149 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.105.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HSQC (hsqcetgpsisp.2):CPTCI−Z
p28:0.1us
sp3:Crp80,0.5,20.1 −1.77dB(=22.2us rectangle pulse)
sp7:Crp80comp.4 −1.77dB(=22.2us rectangle pulse)
Wurst60,1.25,20 Q=2 1250us 7.00B(=64.0us rectangle pulse)
CPDPRG2:p5m4sp180 (rpar:hsqcetgpsisp2)



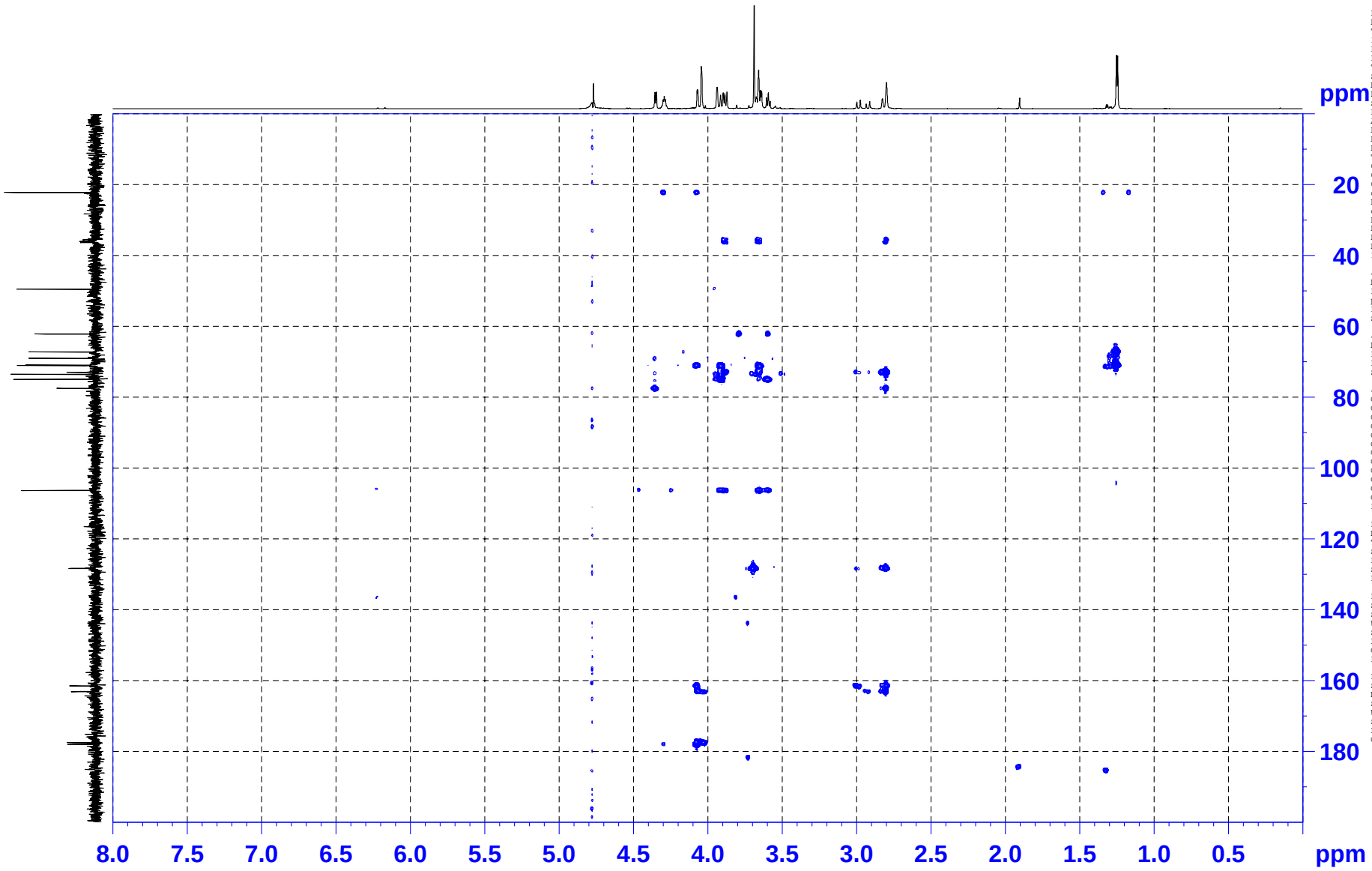

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               105
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              21.35
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG  hsqcetgpsisp.2
TD                2048
SOLVENT            D2O
NS                    8
DS                   16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                32768
DW               65.400 use
DE                6.00 use
TE              300.6 K
CNST2       145.0000000
CNST17       -0.5000000
d0            0.00000300 sec
D1            1.50000000 sec
d4            0.00172414 sec
d11           0.03000000 sec
D16           0.00020000 sec
D24           0.00086207 sec
DELTA         0.00122600 sec
DELTA1        0.00120800 sec
DELTA2        0.00147014 sec
DELTA3        0.00135807 sec
IN0           0.00001600 sec
ST1CNT               128

======== CHANNEL f1 =======
NUC1                 1H
P1                12.00 use
p2                24.00 use
P28                0.10 use
PL1               -3.00 dB
SFO1        750.1335267 MHz

======== CHANNEL f2 =======
CPDPRG2        p5m4sp180
NUC2                13C
P3                15.20 use
P14              500.00 use
P24             2000.00 use
PCPD2           1250.00 use
PL0              120.00 dB
PL2               -4.90 dB
PL12               7.20 dB
SFO2        188.6344855 MHz
SP3               -1.65 dB
SP7               -1.65 dB
SPNAM3    Crp80,0.5,20.1
SPNAM7      Crp80comp.4
SPNAM15  Wurst60,1.25,20
SPOAL3             0.500
SPOAL7             0.500
SPOAL15            0.500
SPOFFS3            0.00 Hz
SPOFFS7            0.00 Hz
SPOFFS15           0.00 Hz

====== GRADIENT CHANNEL ===
GPNAM1          SINE.100
GPNAM2          SINE.100
GPZ1               80.00 %
GPZ2               20.10 %
P16              1000.00 use

F1 - Acquisition parameters
ND0                   2
TD                  256
SFO1          188.6345 MHz
FIDRES      122.070312 Hz
SW            165.664 ppm
FnMODE    Echo-Antiecho

F2 - Processing parameters
SI                 1024
SF          750.1299425 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.40

F1 - Processing parameters
SI                 1024
MC2       echo-antiecho
SF          188.6198149 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.105.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HSQC (hsqcetgpsisp.2):CPTCI−Z
p28:0.1us
sp3:Crp80,0.5,20.1 −1.77dB(=22.2us rectangle pulse)
sp7:Crp80comp.4 −1.77dB(=22.2us rectangle pulse)
Wurst60,1.25,20 Q=2 1250us 7.00B(=64.0us rectangle pulse)
CPDPRG2:p5m4sp180 (rpar:hsqcetgpsisp2)



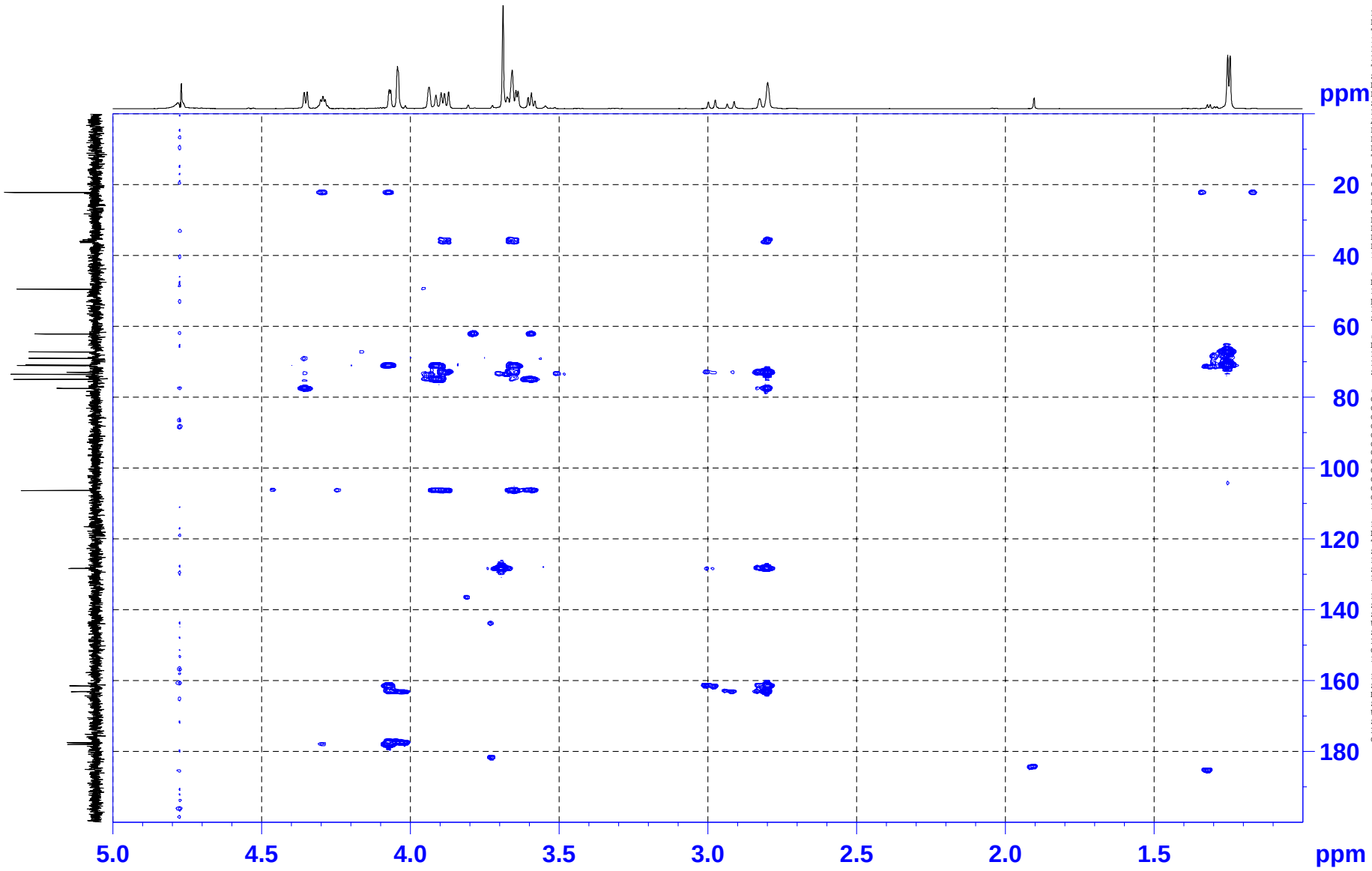

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               105
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              21.35
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG  hsqcetgpsisp.2
TD                2048
SOLVENT            D2O
NS                   8
DS                  16
SWH           7645.260 Hz
FIDRES        3.733037 Hz
AQ            0.1339892 sec
RG                32768
DW               65.400 use
DE                6.00 use
TE              300.6 K
CNST2        145.0000000
CNST17        -0.5000000
d0            0.00000300 sec
D1            1.50000000 sec
d4            0.00172414 sec
d11           0.03000000 sec
D16           0.00020000 sec
D24           0.00086207 sec
DELTA         0.0022600 sec
DELTA1        0.00120800 sec
DELTA2        0.00147014 sec
DELTA3        0.00135807 sec
IN0           0.00001600 sec
ST1CNT               128

======== CHANNEL f1 =======
NUC1                 1H
P1                12.00 use
p2                24.00 use
P28                0.10 use
PL1               -3.00 dB
SFO1         750.1335267 MHz

======== CHANNEL f2 =======
CPDPRG2        p5m4sp180
NUC2                13C
P3                15.20 use
P14              500.00 use
P24             2000.00 use
PCPD2           1250.00 use
PL0              120.00 dB
PL2               -4.90 dB
PL12               7.20 dB
SFO2        188.6344855 MHz
SP3               -1.65 dB
SP7               -1.65 dB
SPNAM3    Crp80,0.5,20.1
SPNAM7      Crp80comp.4
SPNAM15  Wurst60,1.25,20
SPOAL3             0.500
SPOAL7             0.500
SPOAL15            0.500
SPOFFS3            0.00 Hz
SPOFFS7            0.00 Hz
SPOFFS15           0.00 Hz

====== GRADIENT CHANNEL ===
GPNAM1          SINE.100
GPNAM2          SINE.100
GPZ1               80.00 %
GPZ2               20.10 %
P16              1000.00 use

F1 - Acquisition parameters
ND0                   2
TD                  256
SFO1          188.6345 MHz
FIDRES       122.070312 Hz
SW            165.664 ppm
FnMODE    Echo-Antiecho

F2 - Processing parameters
SI                 1024
SF           750.1299425 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
PC                 1.40

F1 - Processing parameters
SI                 1024
MC2        echo-antiecho
SF          188.6198149 MHz
WDW                QSINE
SSB                   2
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.106.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HMBC (hmbcgpl2ndqf):CPTCI−Z



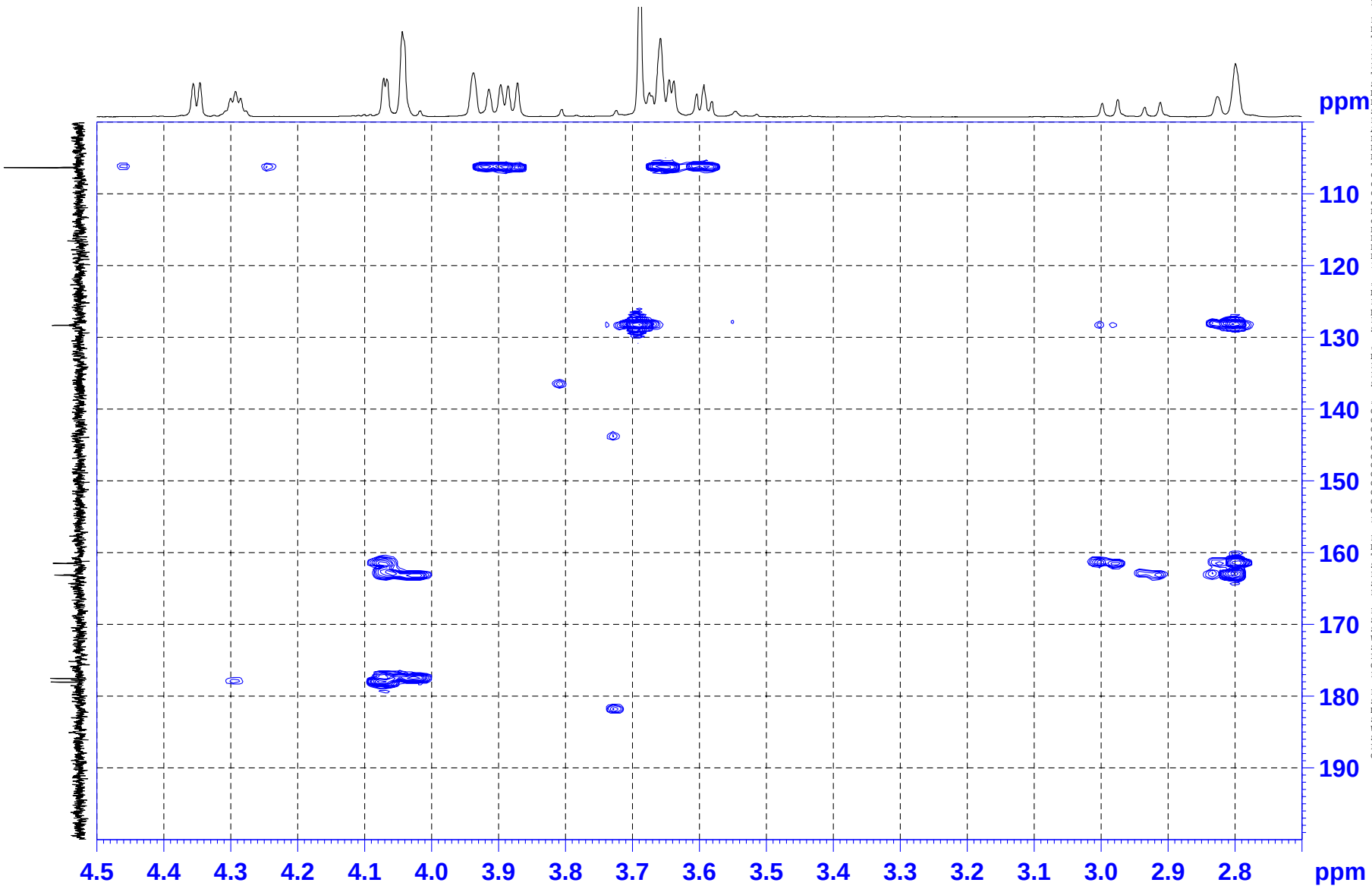

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               106
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              22.33
INSTRUM           spect
PROBHD    5 mm CPTCI 1H-
PULPROG    hmbcgpl2ndqf
TD                4096
SOLVENT            D2O
NS                   16
DS                   16
SWH           7645.260 Hz
FIDRES        1.866518 Hz
AQ            0.2679284 sec
RG                32768
DW               65.400 use
DE                6.00 use
TE               300.6 K
CNST6        120.0000000
CNST7        200.0000000
CNST13         8.0000000
d0           0.00000300 sec
D1           1.50000000 sec
d6           0.06250000 sec
D16          0.00020000 sec
DELTA1       0.00296667 sec
DELTA2       0.00130000 sec
DELTA3       0.06129600 sec
IN0          0.00001190 sec

======== CHANNEL f1 ======
NUC1                 1H
P1                12.00 use
P2                24.00 use
PL1               -3.00 dB
SFO1         750.1335267 MH

======== CHANNEL f2 ======
NUC2                13C
P3                15.20 use
PL2               -4.90 dB
SFO2         188.6392010 MH

====== GRADIENT CHANNEL ===
GPNAM1          SINE.100
GPNAM2          SINE.100
GPNAM3          SINE.100
GPNAM4          SINE.100
GPNAM5          SINE.100
GPNAM6          SINE.100
GPZ1              50.00 %
GPZ2              30.00 %
GPZ3              40.10 %
GPZ4              15.00 %
GPZ5             -10.00 %
GPZ6              -5.00 %
P16             1000.00 use

F1 - Acquisition parameters
ND0                   2
TD                  256
SFO1         188.6392 MH
FIDRES       164.128159 Hz
SW           222.736 ppm
FnMODE              QF

F2 - Processing parameters
SI                 1024
SF           750.1299425 MH
WDW                SINE
SSB                   0
LB                 0.00 Hz
GB                    0
PC                 1.40

F1 - Processing parameters
SI                 1024
MC2                  QF
SF           188.6198149 MH
WDW                SINE
SSB                   0
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.106.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HMBC (hmbcgpl2ndqf):CPTCI−Z



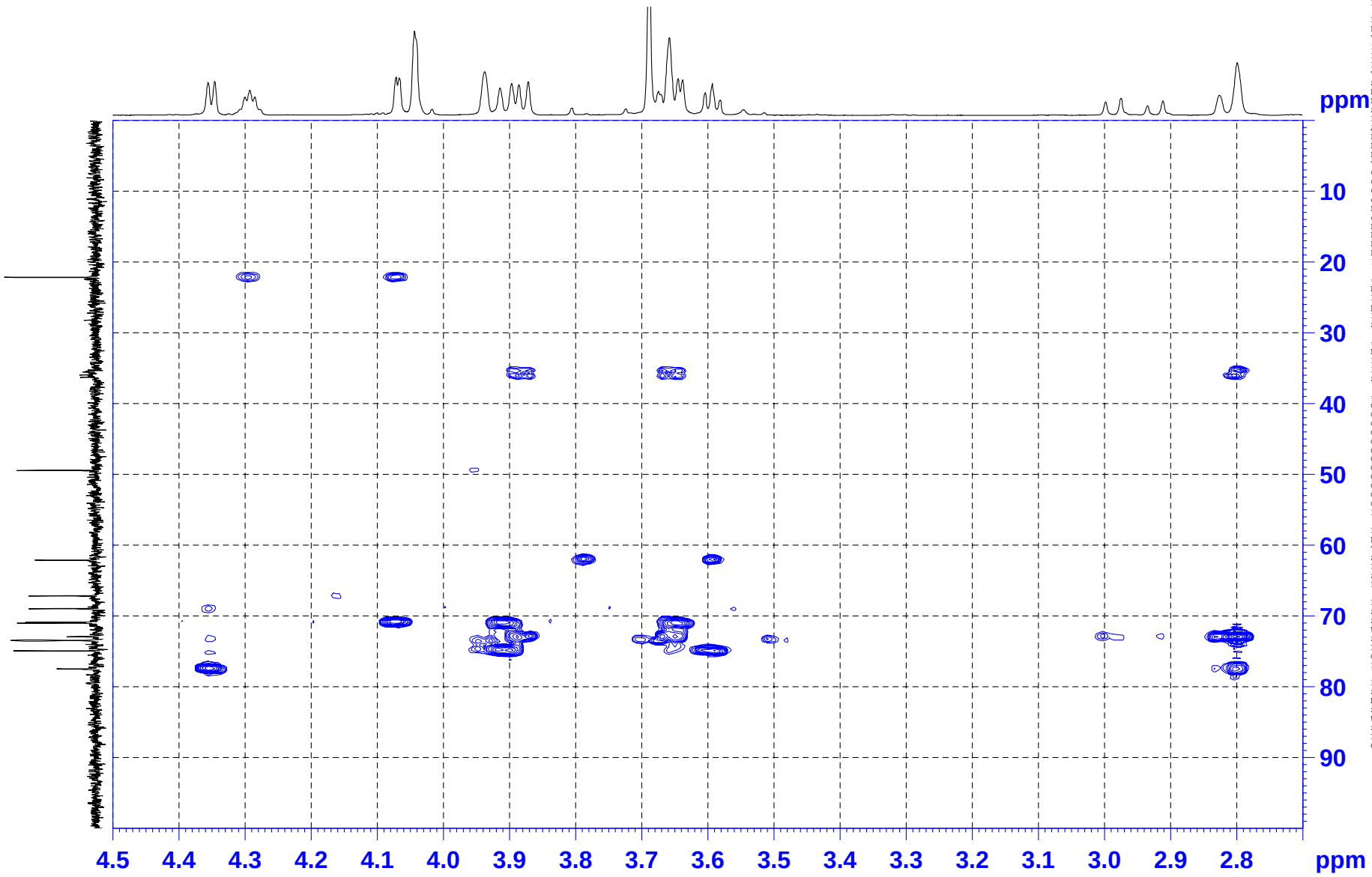

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               106
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              22.33
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG    hmbcgpl2ndqf
TD                4096
SOLVENT            D2O
NS                   16
DS                   16
SWH         7645.260 Hz
FIDRES      1.866518 Hz
AQ          0.2679284 sec
RG                32768
DW             65.400 use
DE              6.00 use
TE             300.6 K
CNST6      120.0000000
CNST7      200.0000000
CNST13       8.0000000
d0          0.00000300 sec
D1          1.50000000 sec
d6          0.06250000 sec
D16         0.00020000 sec
DELTA1      0.00296667 sec
DELTA2      0.00130000 sec
DELTA3      0.06129600 sec
IN0         0.00001190 sec

======== CHANNEL f1 ======
NUC1                1H
P1                12.00 use
P2                24.00 use
PL1               -3.00 dB
SFO1       750.1335267 MHz

======== CHANNEL f2 ======
NUC2               13C
P3                15.20 use
PL2               -4.90 dB
SFO2       188.6392010 MHz

====== GRADIENT CHANNEL ===
GPNAM1          SINE.100
GPNAM2          SINE.100
GPNAM3          SINE.100
GPNAM4          SINE.100
GPNAM5          SINE.100
GPNAM6          SINE.100
GPZ1              50.00 %
GPZ2              30.00 %
GPZ3              40.10 %
GPZ4              15.00 %
GPZ5             -10.00 %
GPZ6              -5.00 %
P16             1000.00 use

F1 - Acquisition parameters
ND0                  2
TD                 256
SFO1       188.6392 MHz
FIDRES     164.128159 Hz
SW            222.736 ppm
FnMODE              QF

F2 - Processing parameters
SI                1024
SF         750.1299425 MHz
WDW               SINE
SSB                  0
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2                 QF
SF         188.6198149 MHz
WDW               SINE
SSB                  0
LB                0.00 Hz
GB                   0
```

sakamoto750_01.106.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HMBC (hmbcgpl2ndqf):CPTCI−Z



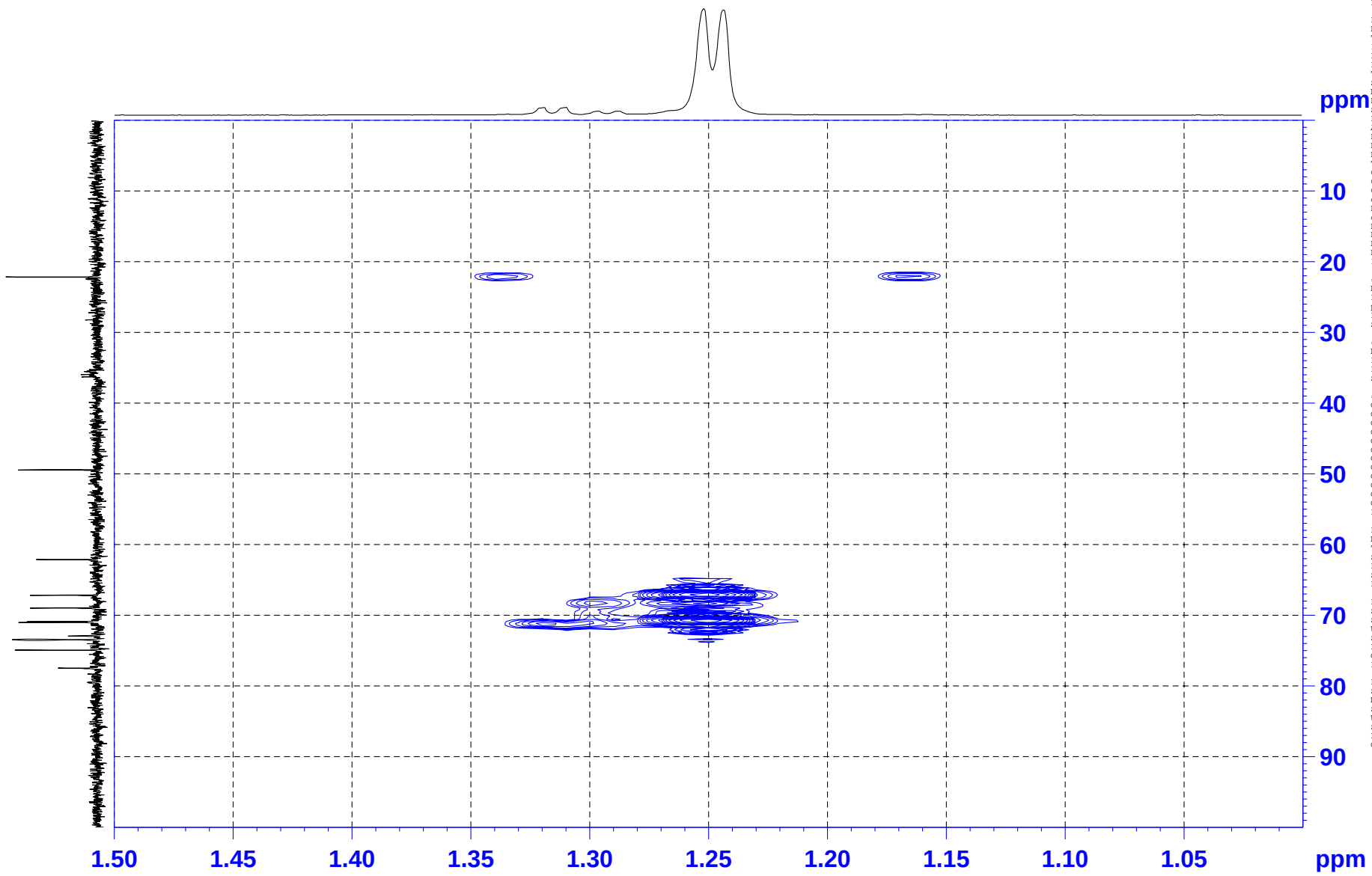

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO              106
PROCNO               1

F2 - Acquisition Parameters
Date_          20101025
Time              22.33
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG   hmbcgpl2ndqf
TD                4096
SOLVENT           D2O
NS                  16
DS                  16
SWH         7645.260 Hz
FIDRES      1.866518 Hz
AQ          0.2679284 sec
RG                32768
DW             65.400 use
DE              6.00 use
TE             300.6 K
CNST6      120.0000000
CNST7      200.0000000
CNST13       8.0000000
d0          0.00000300 sec
D1          1.50000000 sec
d6          0.06250000 sec
D16         0.00020000 sec
DELTA1      0.0029667 sec
DELTA2      0.0013000 sec
DELTA3      0.06129600 sec
IN0         0.00001190 sec

======== CHANNEL f1 ======
NUC1               1H
P1              12.00 use
P2              24.00 use
PL1             -3.00 dB
SFO1      750.1335267 MHz

======== CHANNEL f2 ======
NUC2              13C
P3              15.20 use
PL2             -4.90 dB
SFO2      188.6392010 MHz

====== GRADIENT CHANNEL ===
GPNAM1         SINE.100
GPNAM2         SINE.100
GPNAM3         SINE.100
GPNAM4         SINE.100
GPNAM5         SINE.100
GPNAM6         SINE.100
GPZ1            50.00 %
GPZ2            30.00 %
GPZ3            40.10 %
GPZ4            15.00 %
GPZ5           -10.00 %
GPZ6            -5.00 %
P16           1000.00 use

F1 - Acquisition parameters
ND0                 2
TD                256
SFO1      188.6392 MHz
FIDRES    164.128159 Hz
SW           222.736 ppm
FnMODE             QF

F2 - Processing parameters
SI                1024
SF      750.1299425 MHz
WDW             SINE
SSB                0
LB              0.00 Hz
GB                 0
PC              1.40

F1 - Processing parameters
SI                1024
MC2                QF
SF      188.6198149 MHz
WDW             SINE
SSB                0
LB              0.00 Hz
GB                 0
```

sakamoto750_01.106.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HMBC (hmbcgpl2ndqf):CPTCI−Z



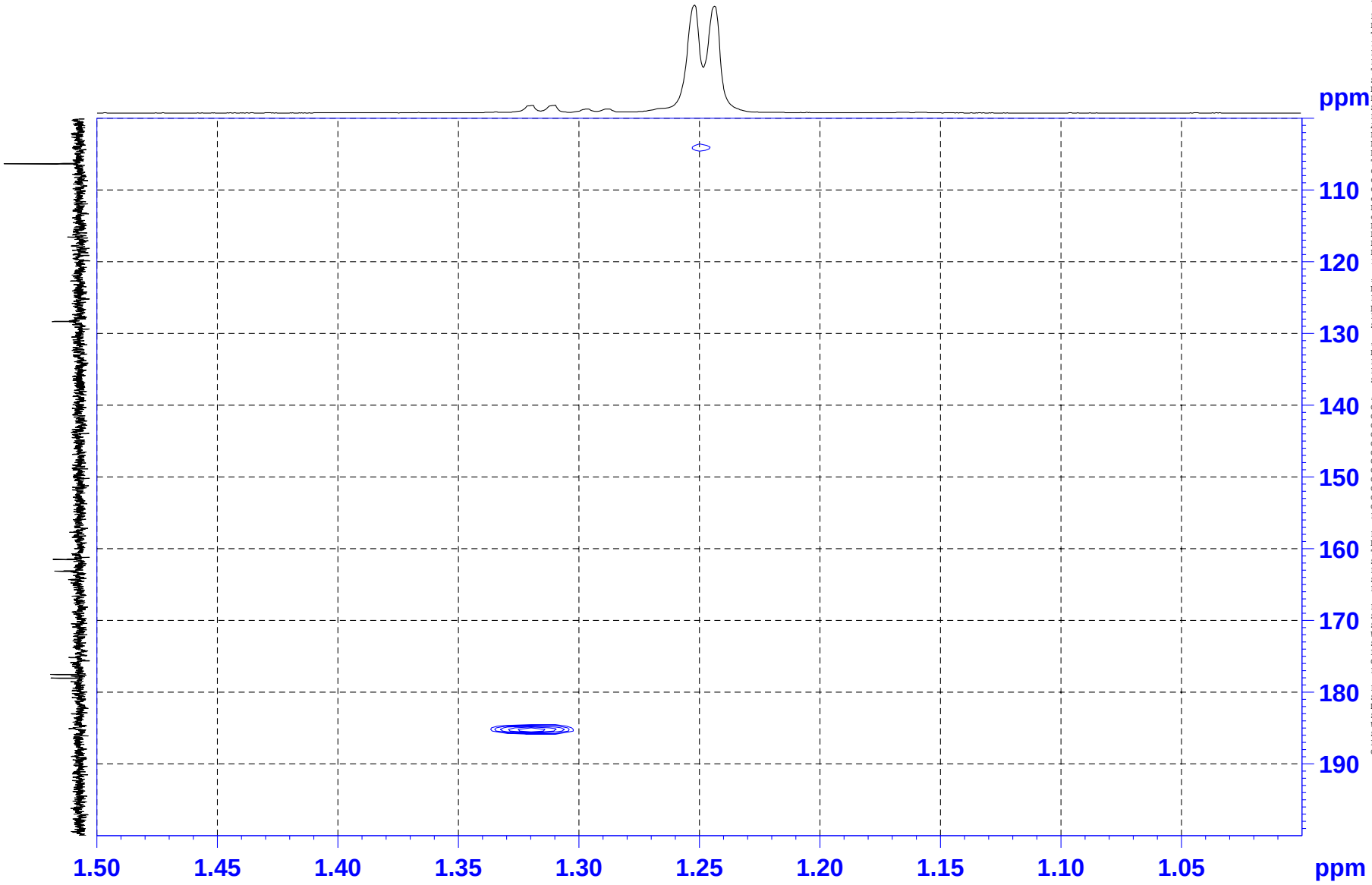

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               106
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              22.33
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG    hmbcgpl2ndqf
TD                4096
SOLVENT            D2O
NS                  16
DS                  16
SWH         7645.260 Hz
FIDRES      1.866518 Hz
AQ          0.2679284 sec
RG                32768
DW             65.400 use
DE              6.00 use
TE             300.6 K
CNST6      120.0000000
CNST7      200.0000000
CNST13       8.0000000
d0          0.00000300 sec
D1          1.50000000 sec
d6          0.06250000 sec
D16         0.00020000 sec
DELTA1      0.0029667 sec
DELTA2      0.0013000 sec
DELTA3      0.06129600 sec
IN0         0.00001190 sec

======== CHANNEL f1 ======
NUC1                1H
P1                12.00 use
P2                24.00 use
PL1               -3.00 dB
SFO1       750.1335267 MH

======== CHANNEL f2 ======
NUC2               13C
P3                15.20 use
PL2               -4.90 dB
SFO2       188.6392010 MH

====== GRADIENT CHANNEL ===
GPNAM1         SINE.100
GPNAM2         SINE.100
GPNAM3         SINE.100
GPNAM4         SINE.100
GPNAM5         SINE.100
GPNAM6         SINE.100
GPZ1             50.00 %
GPZ2             30.00 %
GPZ3             40.10 %
GPZ4             15.00 %
GPZ5            -10.00 %
GPZ6             -5.00 %
P16            1000.00 use

F1 - Acquisition parameters
ND0                 2
TD                256
SFO1       188.6392 MH
FIDRES     164.128159 Hz
SW            222.736 ppm
FnMODE             QF

F2 - Processing parameters
SI                1024
SF       750.1299425 MH
WDW             SINE
SSB                0
LB              0.00 Hz
GB                 0
PC              1.40

F1 - Processing parameters
SI                1024
MC2                QF
SF       188.6198149 MH
WDW             SINE
SSB                0
LB              0.00 Hz
GB                 0
```

sakamoto750_01.106.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HMBC (hmbcgpl2ndqf):CPTCI−Z



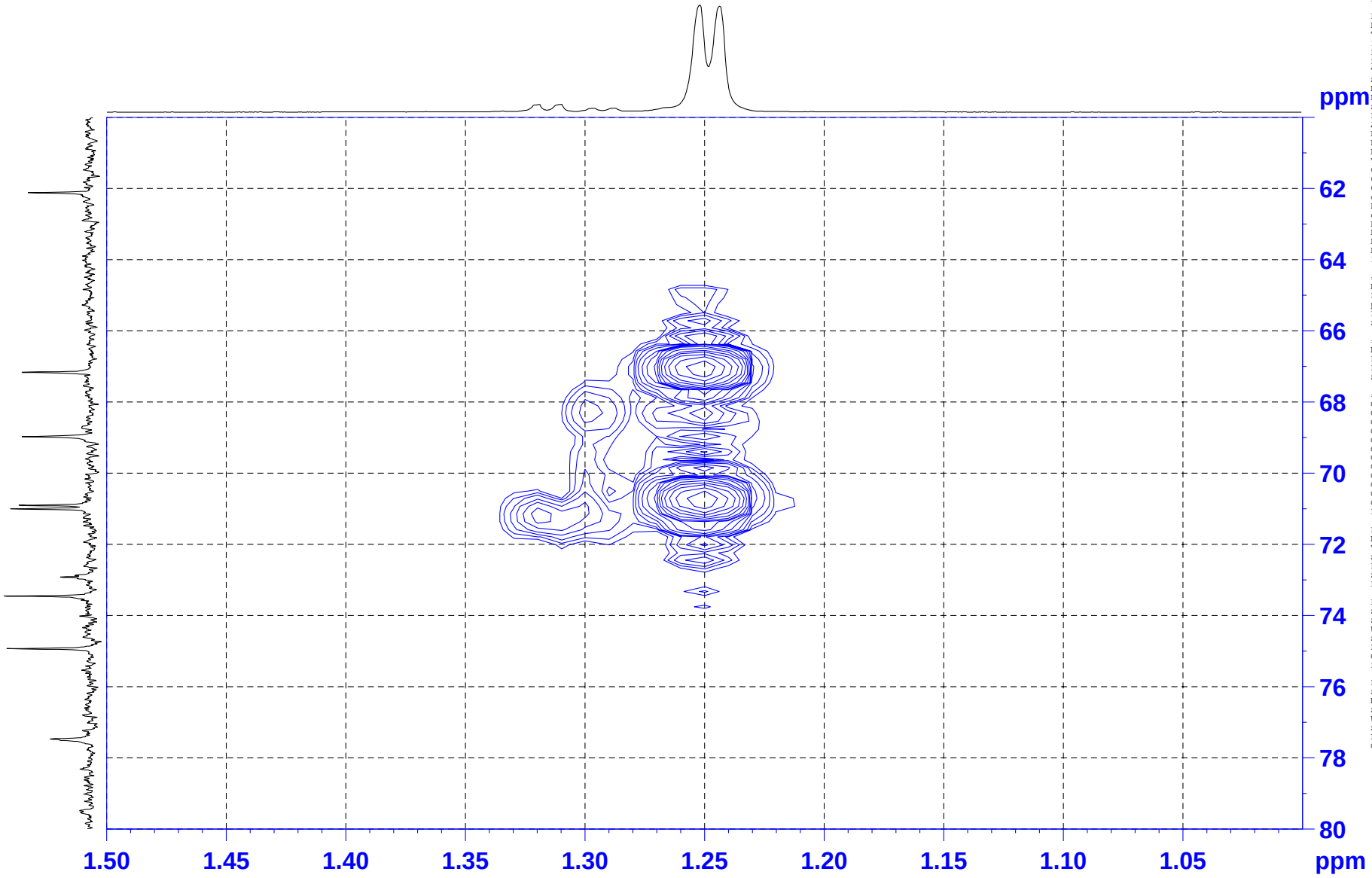

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               106
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              22.33
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG    hmbcgpl2ndqf
TD                4096
SOLVENT            D2O
NS                   16
DS                   16
SWH           7645.260 Hz
FIDRES        1.866518 Hz
AQ            0.2679284 sec
RG                32768
DW               65.400 use
DE                6.00 use
TE               300.6 K
CNST6        120.0000000
CNST7        200.0000000
CNST13         8.0000000
d0            0.00000300 sec
D1            1.50000000 sec
d6            0.06250000 sec
D16           0.00020000 sec
DELTA1        0.00296667 sec
DELTA2        0.00130000 sec
DELTA3        0.06129600 sec
IN0           0.00001190 sec

======== CHANNEL f1 ======
NUC1                1H
P1                12.00 use
P2                24.00 use
PL1               -3.00 dB
SFO1         750.1335267 MH

======== CHANNEL f2 ======
NUC2               13C
P3                15.20 use
PL2               -4.90 dB
SFO2         188.6392010 MH

====== GRADIENT CHANNEL ==
GPNAM1          SINE.100
GPNAM2          SINE.100
GPNAM3          SINE.100
GPNAM4          SINE.100
GPNAM5          SINE.100
GPNAM6          SINE.100
GPZ1              50.00 %
GPZ2              30.00 %
GPZ3              40.10 %
GPZ4              15.00 %
GPZ5             -10.00 %
GPZ6              -5.00 %
P16             1000.00 use

F1 - Acquisition parameters
ND0                  2
TD                 256
SFO1         188.6392 MH
FIDRES       164.128159 Hz
SW             222.736 ppm
FnMODE              QF

F2 - Processing parameters
SI                1024
SF         750.1299425 MH
WDW               SINE
SSB                  0
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2                 QF
SF         188.6198149 MH
WDW               SINE
SSB                  0
LB                0.00 Hz
GB                   0
```

sakamoto750_01.106.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HMBC (hmbcgpl2ndqf):CPTCI−Z



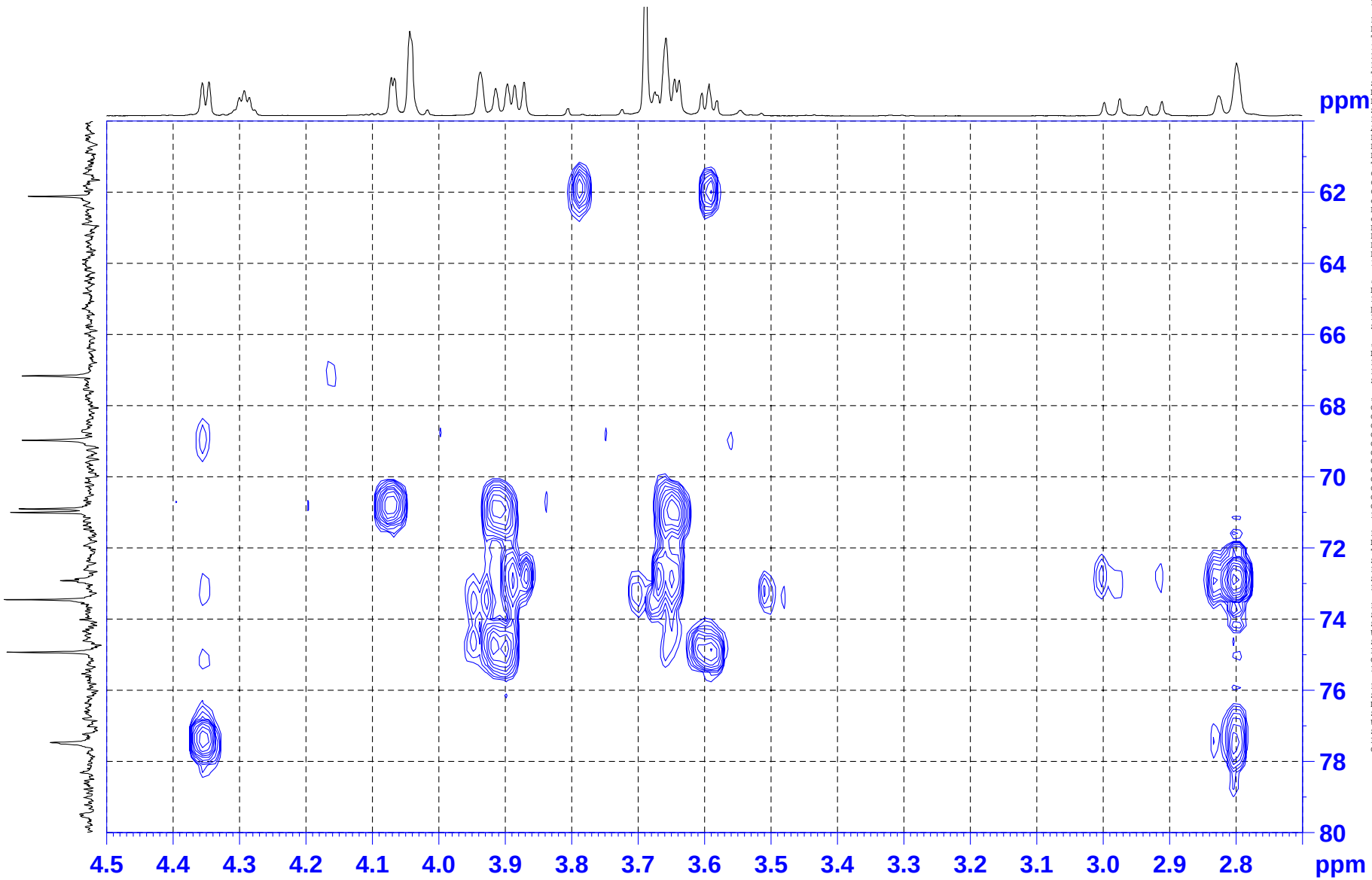

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               106
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              22.33
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG    hmbcgpl2ndqf
TD                4096
SOLVENT            D2O
NS                   16
DS                   16
SWH           7645.260 Hz
FIDRES        1.866518 Hz
AQ            0.2679284 sec
RG                32768
DW               65.400 use
DE                6.00 use
TE               300.6 K
CNST6       120.0000000
CNST7       200.0000000
CNST13        8.0000000
d0            0.00000300 sec
D1            1.50000000 sec
d6            0.06250000 sec
D16           0.00020000 sec
DELTA1        0.00296667 sec
DELTA2        0.00130000 sec
DELTA3        0.06129600 sec
IN0           0.00001190 sec

======== CHANNEL f1 ======
NUC1                1H
P1                12.00 use
p2                24.00 use
PL1               -3.00 dB
SFO1        750.1335267 MHz

======== CHANNEL f2 ======
NUC2               13C
P3                15.20 use
PL2               -4.90 dB
SFO2        188.6392010 MHz

====== GRADIENT CHANNEL ===
GPNAM1          SINE.100
GPNAM2          SINE.100
GPNAM3          SINE.100
GPNAM4          SINE.100
GPNAM5          SINE.100
GPNAM6          SINE.100
GPZ1              50.00 %
GPZ2              30.00 %
GPZ3              40.10 %
GPZ4              15.00 %
GPZ5             -10.00 %
GPZ6              -5.00 %
P16             1000.00 use

F1 - Acquisition parameters
ND0                  2
TD                 256
SFO1        188.6392 MHz
FIDRES      164.128159 Hz
SW             222.736 ppm
FnMODE              QF

F2 - Processing parameters
SI                1024
SF          750.1299425 MHz
WDW               SINE
SSB                  0
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2                 QF
SF          188.6198149 MHz
WDW               SINE
SSB                  0
LB                0.00 Hz
GB                   0
```

sakamoto750_01.106.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HMBC (hmbcgpl2ndqf):CPTCI−Z



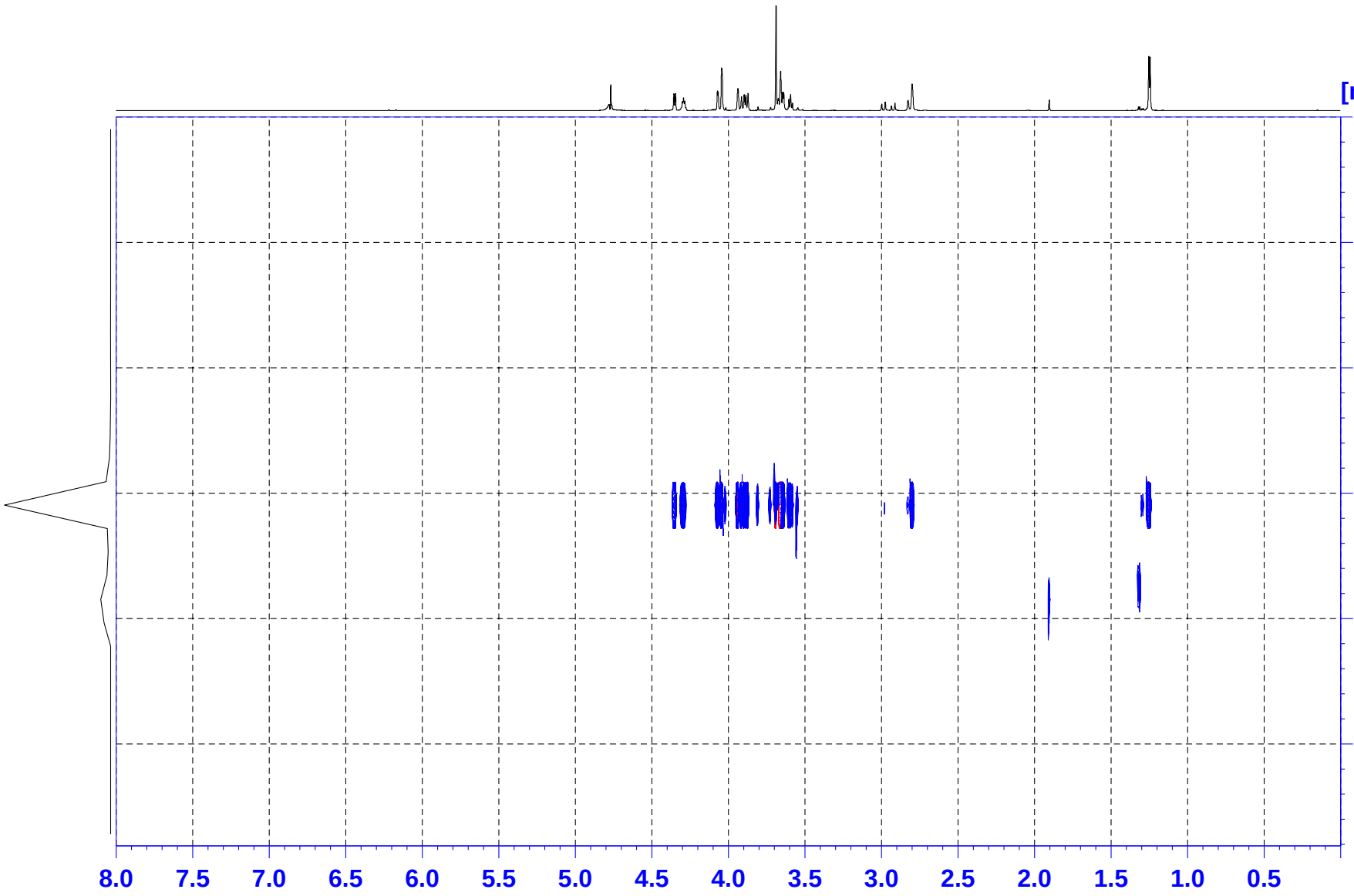

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               106
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              22.33
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG    hmbcgpl2ndqf
TD                4096
SOLVENT            D2O
NS                   16
DS                   16
SWH           7645.260 Hz
FIDRES        1.866518 Hz
AQ            0.2679284 sec
RG                32768
DW               65.400 use
DE                6.00 use
TE               300.6 K
CNST6       120.0000000
CNST7       200.0000000
CNST13        8.0000000
d0            0.00000300 sec
D1            1.50000000 sec
d6            0.06250000 sec
D16           0.00020000 sec
DELTA1        0.00296667 sec
DELTA2        0.00130000 sec
DELTA3        0.06129600 sec
IN0           0.00001190 sec

======== CHANNEL f1 ======
NUC1                1H
P1                12.00 use
P2                24.00 use
PL1               -3.00 dB
SFO1        750.1335267 MHz

======== CHANNEL f2 ======
NUC2               13C
P3                15.20 use
PL2               -4.90 dB
SFO2        188.6392010 MHz

====== GRADIENT CHANNEL ===
GPNAM1          SINE.100
GPNAM2          SINE.100
GPNAM3          SINE.100
GPNAM4          SINE.100
GPNAM5          SINE.100
GPNAM6          SINE.100
GPZ1              50.00 %
GPZ2              30.00 %
GPZ3              40.10 %
GPZ4              15.00 %
GPZ5             -10.00 %
GPZ6              -5.00 %
P16             1000.00 use

F1 - Acquisition parameters
ND0                  2
TD                 256
SFO1        188.6392 MHz
FIDRES      164.128159 Hz
SW             222.736 ppm
FnMODE              QF

F2 - Processing parameters
SI                1024
SF          750.1299425 MHz
WDW               SINE
SSB                  0
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2                 QF
SF          188.6198149 MHz
WDW               SINE
SSB                  0
LB                0.00 Hz
GB                   0
```

sakamoto750_01.106.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H{13C} HMBC (hmbcgpl2ndqf):CPTCI−Z



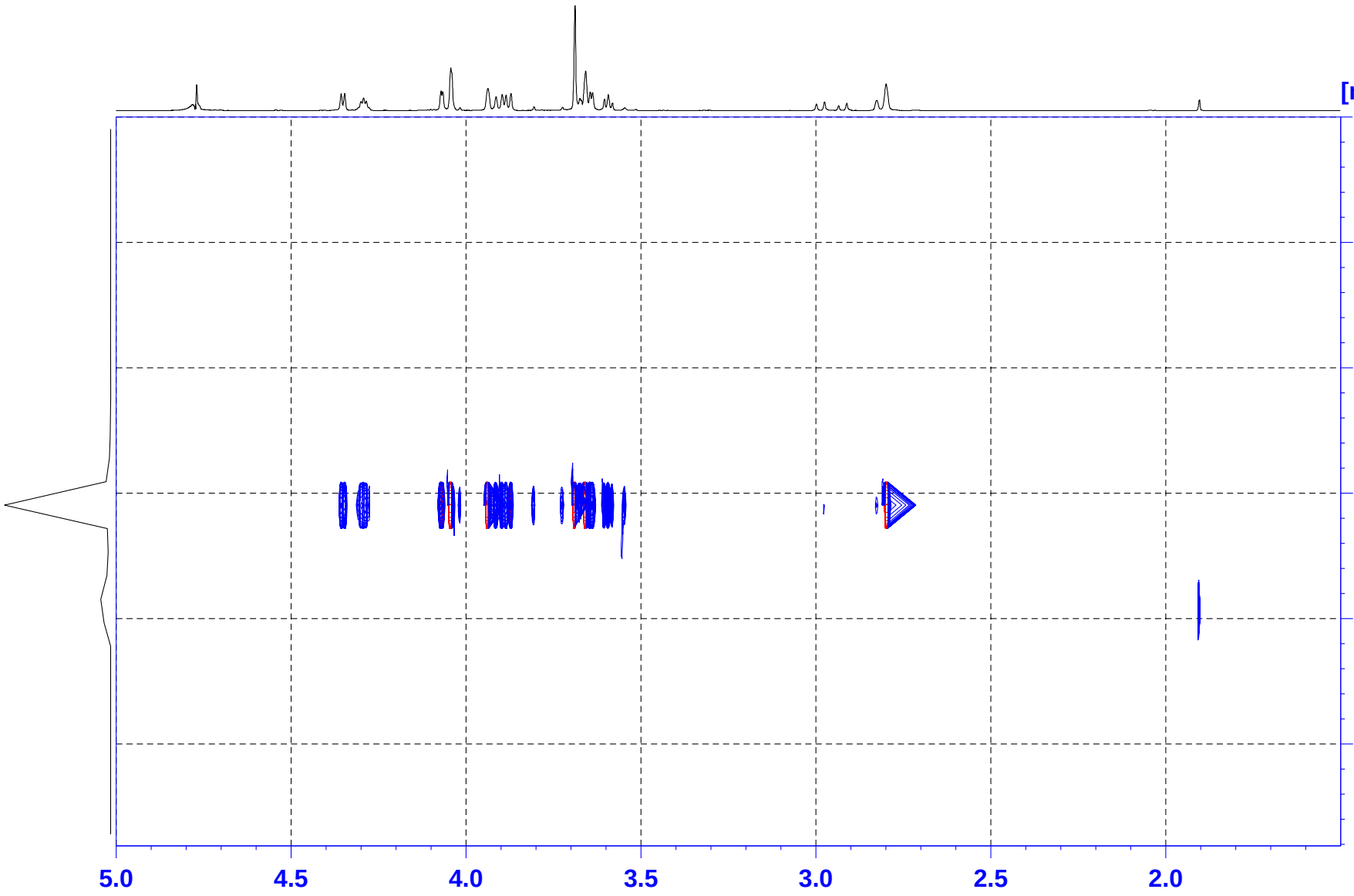

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               106
PROCNO                1

F2 - Acquisition Parameters
Date_          20101025
Time              22.33
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG   hmbcgpl2ndqf
TD                4096
SOLVENT            D2O
NS                  16
DS                  16
SWH         7645.260 Hz
FIDRES      1.866518 Hz
AQ          0.2679284 sec
RG                32768
DW             65.400 use
DE              6.00 use
TE             300.6 K
CNST6      120.0000000
CNST7      200.0000000
CNST13       8.0000000
d0          0.00000300 sec
D1          1.50000000 sec
d6          0.06250000 sec
D16         0.00020000 sec
DELTA1      0.0029667 sec
DELTA2      0.0013000 sec
DELTA3      0.06129600 sec
IN0         0.00001190 sec

======== CHANNEL f1 ======
NUC1                1H
P1                12.00 use
p2                24.00 use
PL1               -3.00 dB
SFO1       750.1335267 MHz

======== CHANNEL f2 ======
NUC2               13C
P3                15.20 use
PL2               -4.90 dB
SFO2       188.6392010 MHz

====== GRADIENT CHANNEL ===
GPNAM1          SINE.100
GPNAM2          SINE.100
GPNAM3          SINE.100
GPNAM4          SINE.100
GPNAM5          SINE.100
GPNAM6          SINE.100
GPZ1              50.00 %
GPZ2              30.00 %
GPZ3              40.10 %
GPZ4              15.00 %
GPZ5             -10.00 %
GPZ6              -5.00 %
P16             1000.00 use

F1 - Acquisition Parameters
ND0                  2
TD                 256
SFO1       188.6392 MHz
FIDRES     164.128159 Hz
SW            222.736 ppm
FnMODE              QF

F2 - Processing parameters
SI                1024
SF       750.1299425 MHz
WDW               SINE
SSB                  0
LB                0.00 Hz
GB                   0
PC                1.40

F1 - Processing parameters
SI                1024
MC2                 QF
SF       188.6198149 MHz
WDW               SINE
SSB                  0
LB                0.00 Hz
GB                   0
```

sakamoto750_01.201.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H DOSY with presat. (ledbpgppr2s):CPTCI−Z



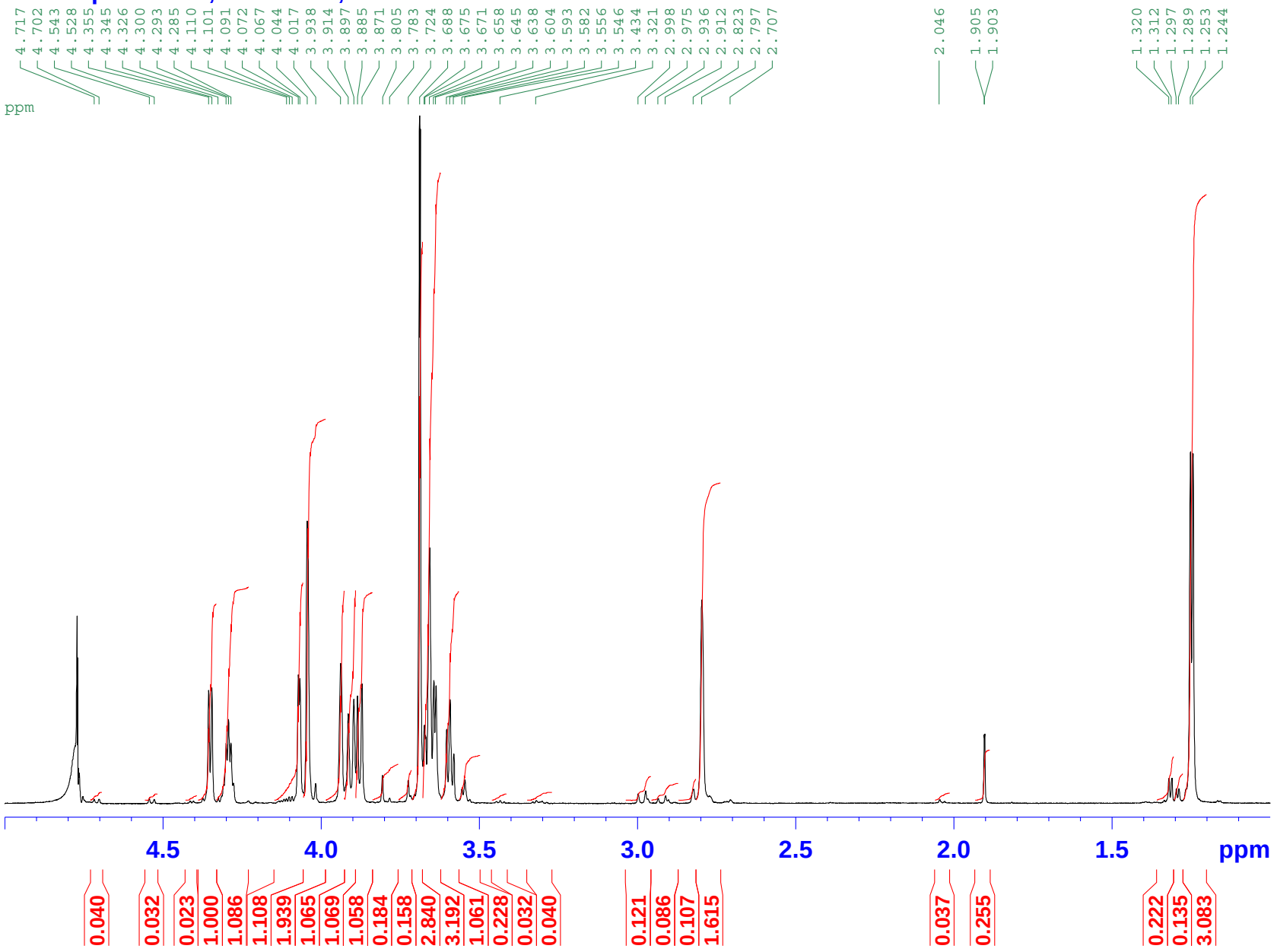

```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               201
PROCNO                1

F2 - Acquisition Parameters
Date_          20101026
Time              10.59
INSTRUM           spect
PROBHD    5 mm CPTCI 1H-
PULPROG    ledbpgppr2s
TD                16384
SOLVENT             D2O
NS                    8
DS                    4
SWH           11261.262 Hz
FIDRES        0.687333 Hz
AQ            0.7274996 sec
RG                   32
DW                44.400 use
DE                 6.00 use
TE                300.6 K
D1           4.00000000 sec
d11          0.03000000 sec
d12          0.00002000 sec
D16          0.00020000 sec
D20          0.04000000 sec
D21          0.00500000 sec
DELTA1       0.03032720 sec
DELTA2       0.00177200 sec

======== CHANNEL f1 =======
NUC1                 1H
P1                12.20 use
p2                24.40 use
PL1               -3.00 dB
PL9               65.00 dB
SFO1         750.1335267 MH

====== GRADIENT CHANNEL ===
GPNAM6          SINE.100
GPNAM7          SINE.100
GPNAM8          SINE.100
GPZ6             100.00 %
GPZ7             -17.13 %
GPZ8             -13.17 %
P19            3000.00 use
P30            3000.00 use

F1 - Acquisition parameters
ND0                   1
TD                   32
SFO1          750.1346 MH
FIDRES        31.250000 Hz
SW                1.333 ppm
FnMODE               QF

F2 - Processing parameters
SI                32768
SF          750.1299484 MH
WDW                  EM
SSB                   0
LB                 0.30 Hz
GB                    0
PC                 0.10

F1 - Processing parameters
SI                   32
MC2                  QF
SF          750.1300000 MH
WDW                  no
SSB                   0
LB                 0.00 Hz
GB                    0
```

sakamoto750_01.201.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H DOSY with presat. (ledbpgppr2s):CPTCI−Z




```
Current Data Parameters
NAME      sakamoto750_01
EXPNO               201
PROCNO                1

F2 - Acquisition Parameters
Date_          20101026
Time              10.59
INSTRUM           spect
PROBHD   5 mm CPTCI 1H-
PULPROG     ledbpgppr2s
TD                16384
SOLVENT             D2O
NS                    8
DS                    4
SWH           11261.262 Hz
FIDRES        0.687333 Hz
AQ            0.7274996 sec
RG                   32
DW                44.400 use
DE                 6.00 use
TE               300.6 K
D1            4.00000000 sec
d11           0.03000000 sec
d12           0.00002000 sec
D16           0.00020000 sec
D20           0.04000000 sec
D21           0.00500000 sec
DELTA1        0.03032720 sec
DELTA2        0.00177200 sec

======== CHANNEL f1 =======
NUC1                 1H
P1                12.20 use
p2                24.40 use
PL1               -3.00 dB
PL9               65.00 dB
SFO1        750.1335267 MHz

====== GRADIENT CHANNEL ===
GPNAM6          SINE.100
GPNAM7          SINE.100
GPNAM8          SINE.100
GPZ6             100.00 %
GPZ7             -17.13 %
GPZ8             -13.17 %
P19            3000.00 use
P30            3000.00 use

F1 - Acquisition parameters
ND0                   1
TD                   32
SFO1         750.1346 MHz
FIDRES       31.250000 Hz
SW               1.333 ppm
FnMODE              QF

F2 - Processing parameters
SI                32768
SF          750.1299484 MHz
WDW                 EM
SSB                  0
LB                0.30 Hz
GB                   0
PC                0.10

F1 - Processing parameters
SI                   32
MC2                  QF
SF          750.1300000 MHz
WDW                  no
SSB                   0
LB                0.00 Hz
GB                   0
```

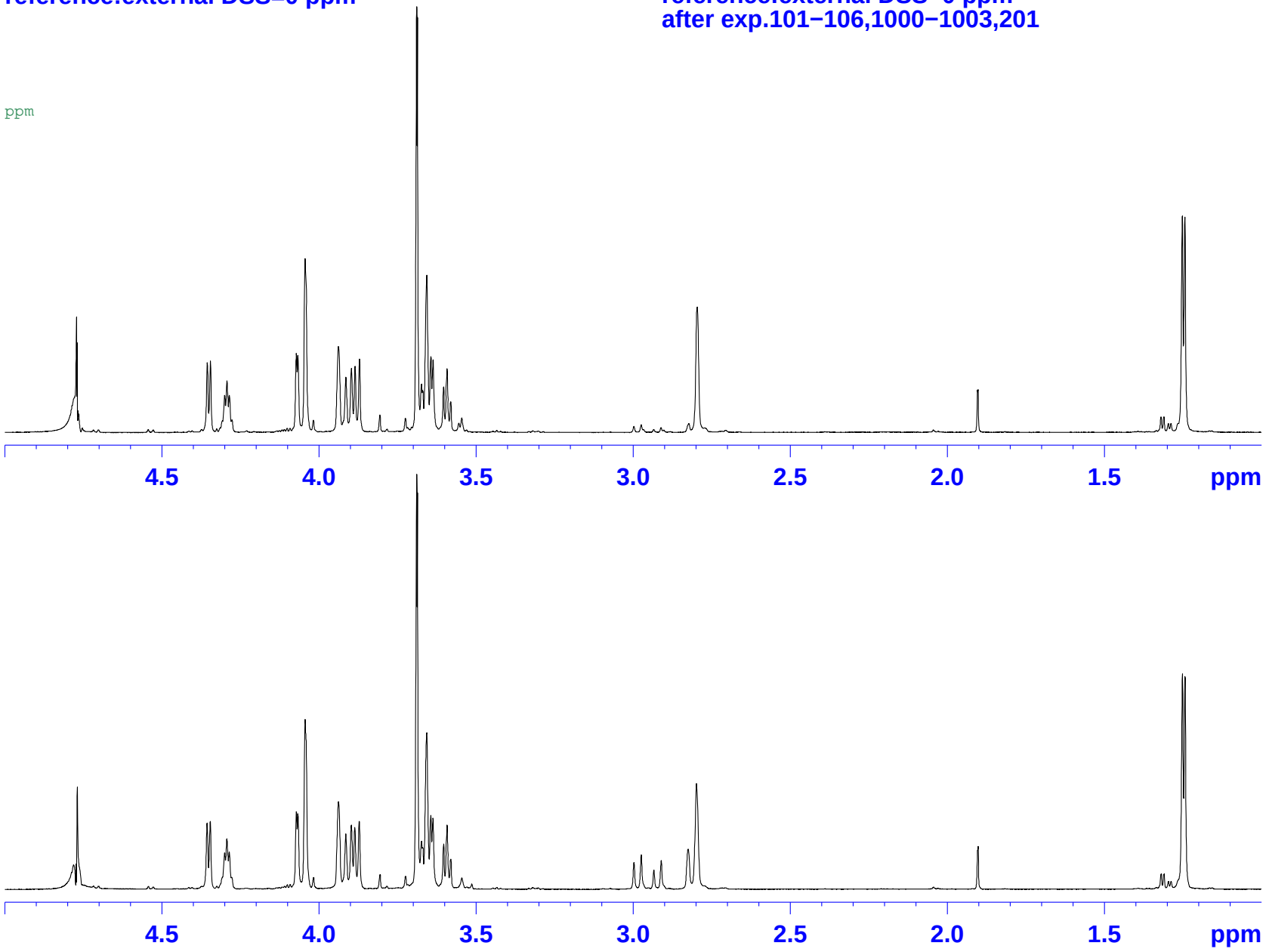
sakamoto750_01.2.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H 1Pulse (zg0pr):CPTCI−Z
reference:external DSS=0 ppm
after exp.101−106,1000−1003,201




```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                  2
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101026
Time               14.52
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG            zg0pr
TD                 65536
SOLVENT              D2O
NS                    16
DS                     4
SWH            11261.262 Hz
FIDRES          0.171833 Hz
AQ             2.9098485 sec
RG                   128
DW                44.400 usec
DE                 6.00 usec
TE                300.6 K
D1           2.00000000 sec
d12          0.00002000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P0                 3.96 usec
PL1               -3.00 dB
PL9               65.00 dB
SFO1        750.1335267 MHz

F2 - Processing parameters
SI                 32768
SF          750.1299484 MHz
WDW                   EM
SSB                    0
LB                0.30 Hz
GB                     0
PC                1.00
```

Bottom: sakamoto750_01.1.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H 1Pulse (zg0pr):CPTCI−Z
reference:external DSS=0 ppm

Top: sakamoto750_01.2.1
Nostoc commune MAA (Ox. 1.2 mg/0.5 ml) /D2O /298 K
1H 1Pulse (zg0pr):CPTCI−Z
reference:external DSS=0 ppm
after exp.101−106,1000−1003,201




```
Current Data Parameters
NAME      sakamoto750_01
EXPNO                  2
PROCNO                 1

F2 - Acquisition Parameters
Date_           20101026
Time               14.52
INSTRUM            spect
PROBHD   5 mm CPTCI 1H-
PULPROG            zg0pr
TD                 65536
SOLVENT              D2O
NS                    16
DS                     4
SWH            11261.262 Hz
FIDRES          0.171833 Hz
AQ             2.9098485 sec
RG                   128
DW                44.400 usec
DE                 6.00 usec
TE                300.6 K
D1           2.00000000 sec
d12          0.00002000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P0                 3.96 usec
PL1               -3.00 dB
PL9               65.00 dB
SFO1        750.1335267 MHz

F2 - Processing parameters
SI                 32768
SF          750.1299484 MHz
WDW                   EM
SSB                    0
LB                0.30 Hz
GB                     0
PC                1.00
```