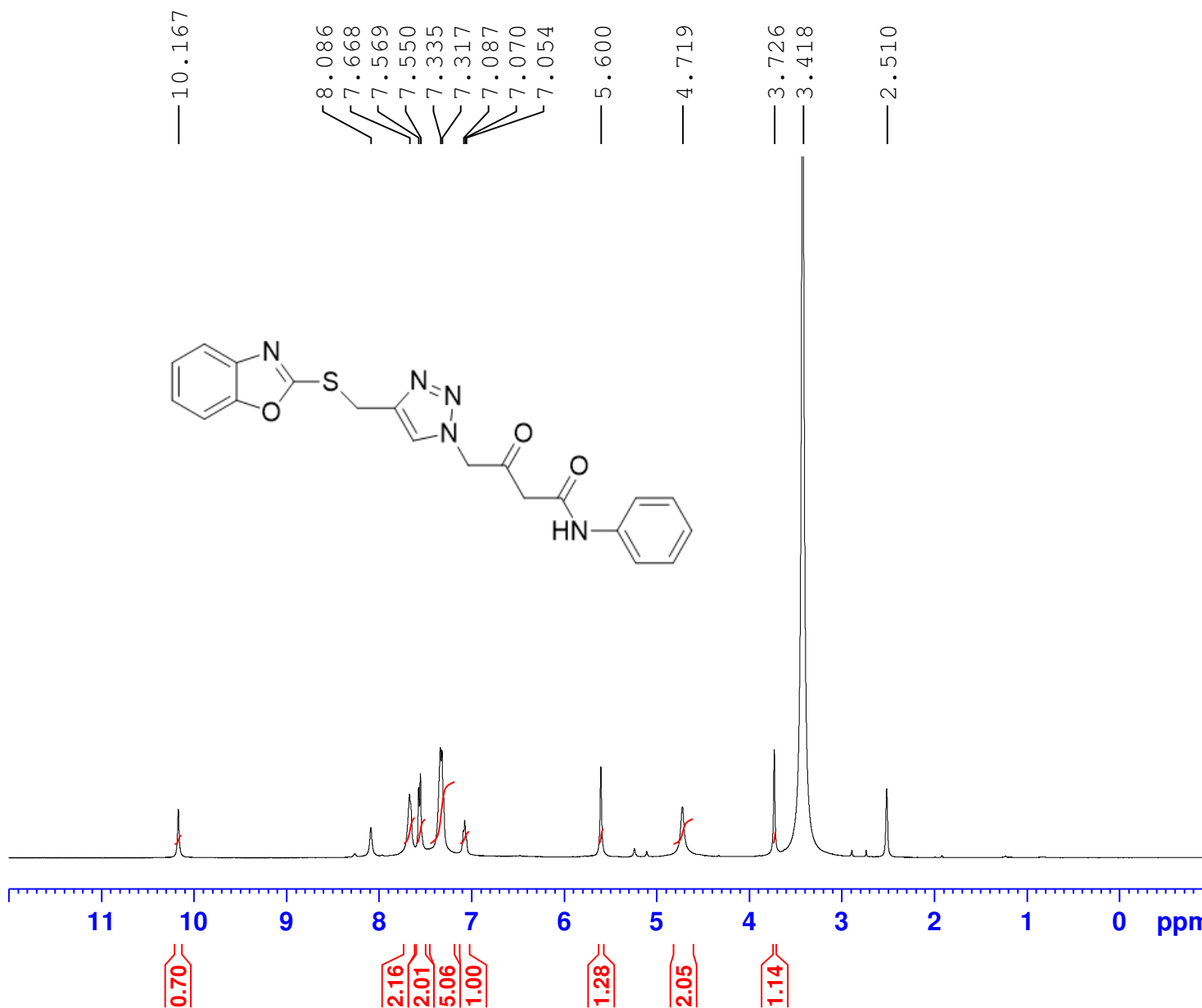


COMPOUND 3a (BOK-1) SPECTRAL DATA

BOK-1
1H-NMR in DMSO

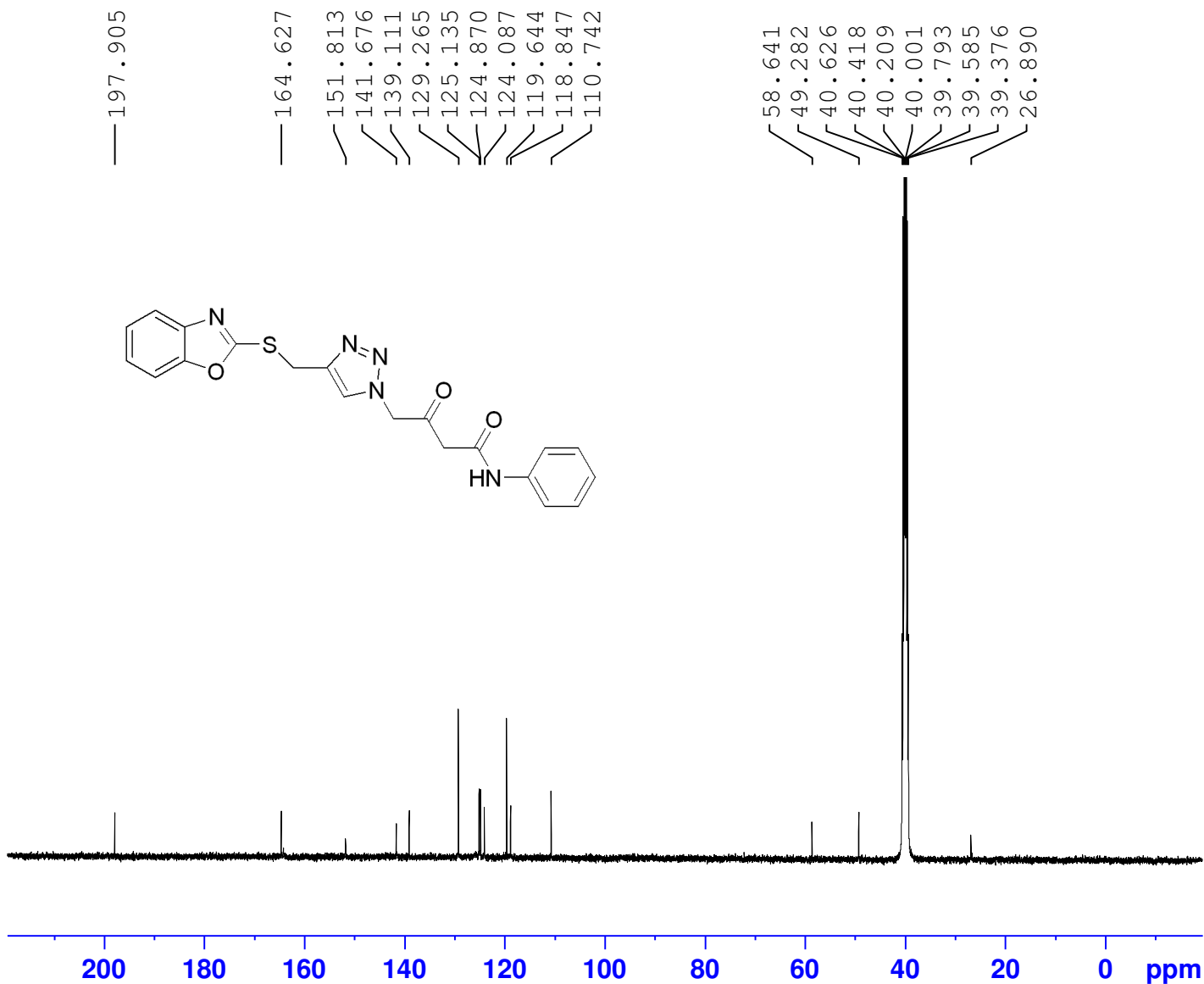


Current Data Parameters
NAME 23000786-BO-AN
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20230801
Time 8.21 h
INSTRUM spect
PROBHD Z108618_0984 (
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 4.0894465 sec
RG 100.18
DW 62.400 usec
DE 17.09 usec
TE 297.2 K
D1 1.00000000 sec
TD0 1
SF01 400.3124719 MHz
NUC1 1H
P0 4.67 usec
P1 14.00 usec
PLW1 11.28999996 W

F2 - Processing parameters
SI 65536
SF 400.3100000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

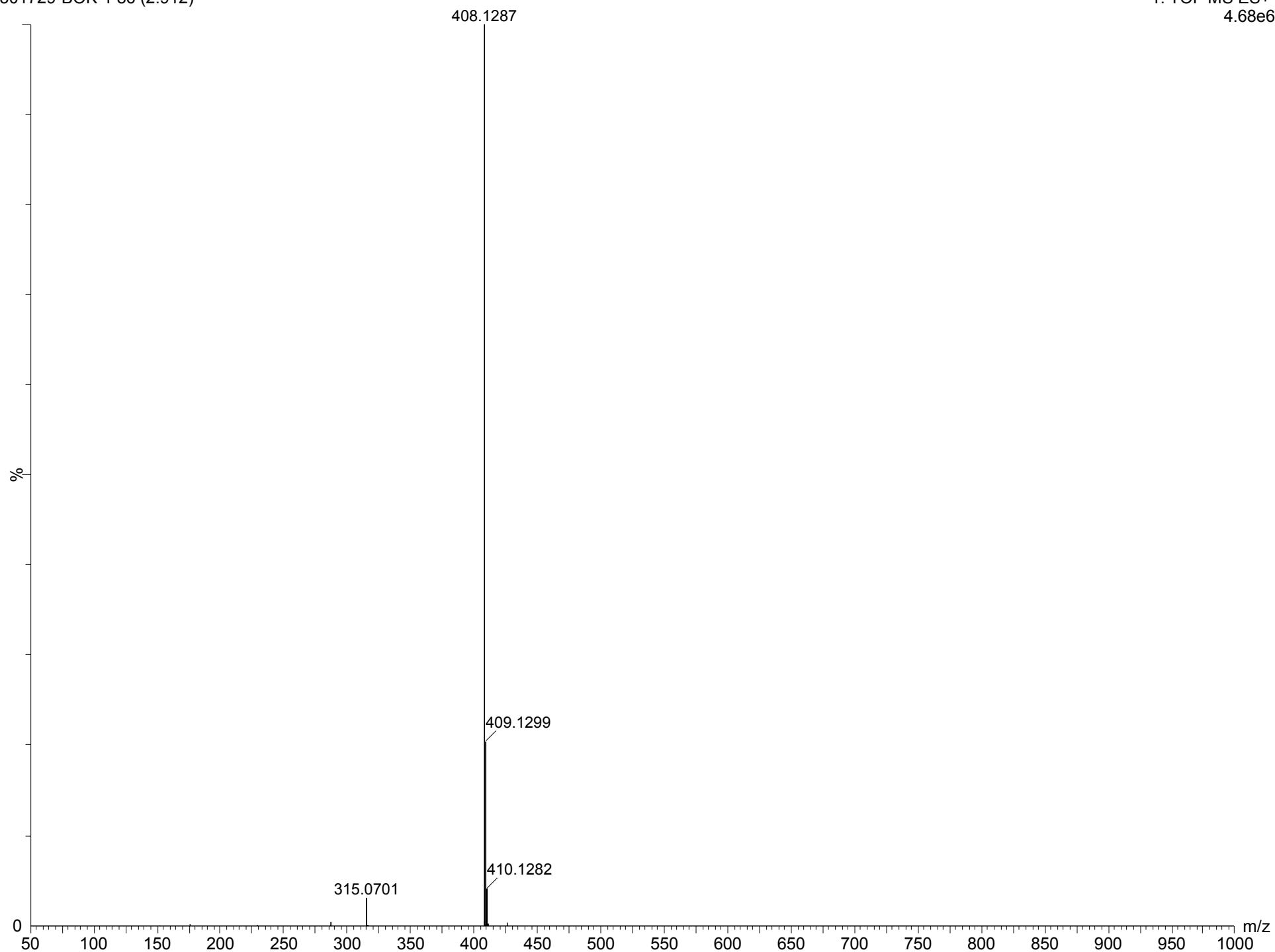
BOK-1
¹³C-NMR in DMSO



Current Data Parameters
 NAME 23000786-BO-AN
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230801
 Time 9.03 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



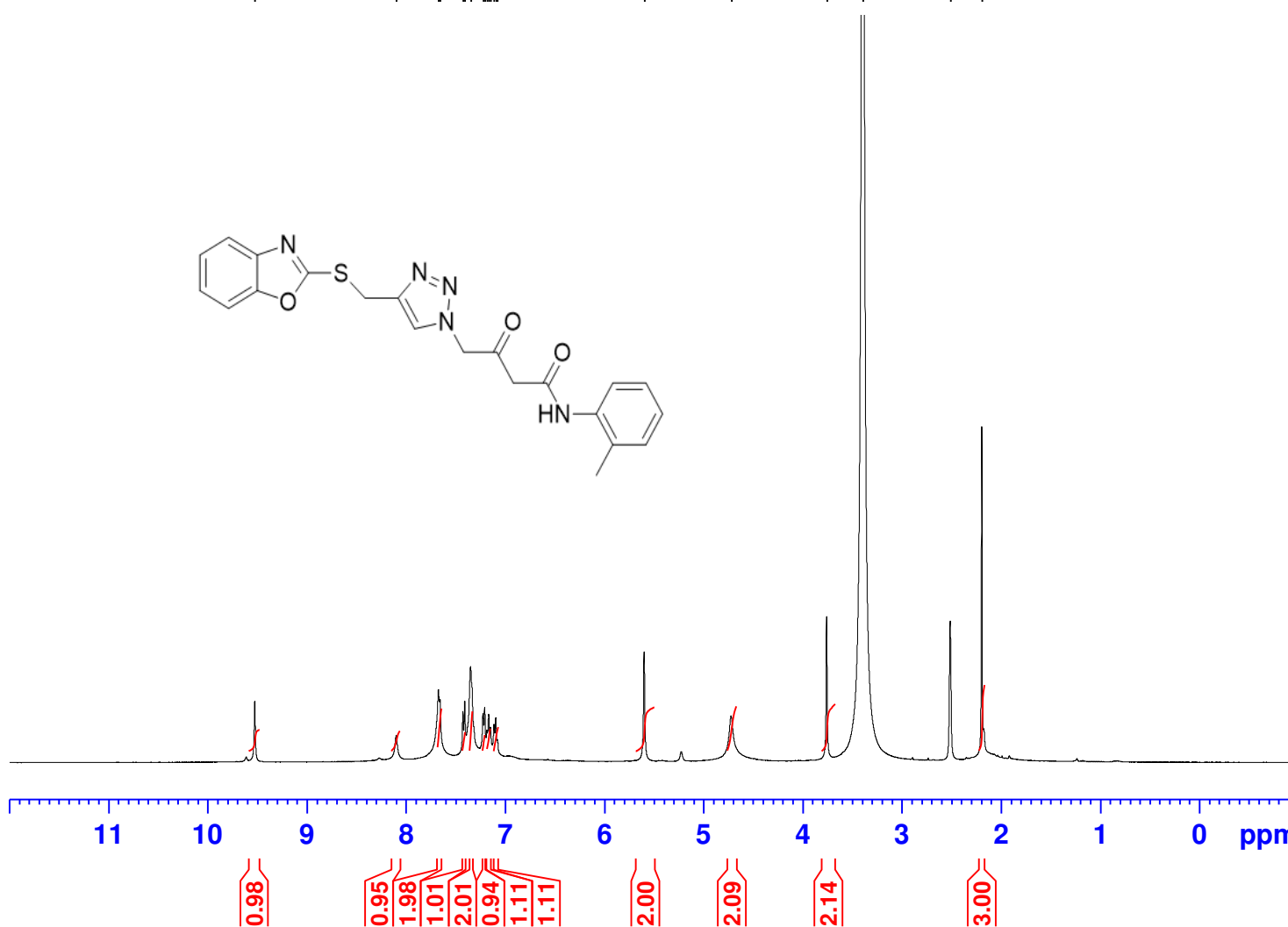
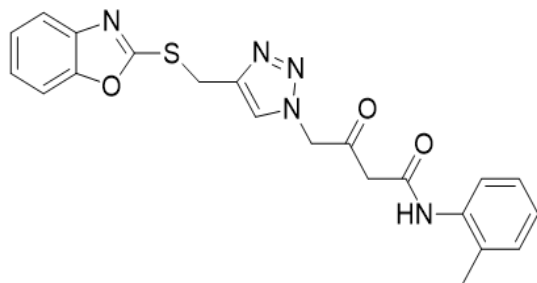
Mass spectrum of 4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-3-oxo-N-phenyl butanamide **3a (BOK-1)**

COMPOUND 3b (BOK-2) SPECTRAL DATA

BOK-2
1H-NMR in DMSO



9.524
8.098
7.672
7.656
7.425
7.406
7.347
7.223
7.205
7.183
7.165
7.147
7.111
7.093
7.077
5.597
4.720
3.756
3.392
2.510
2.192

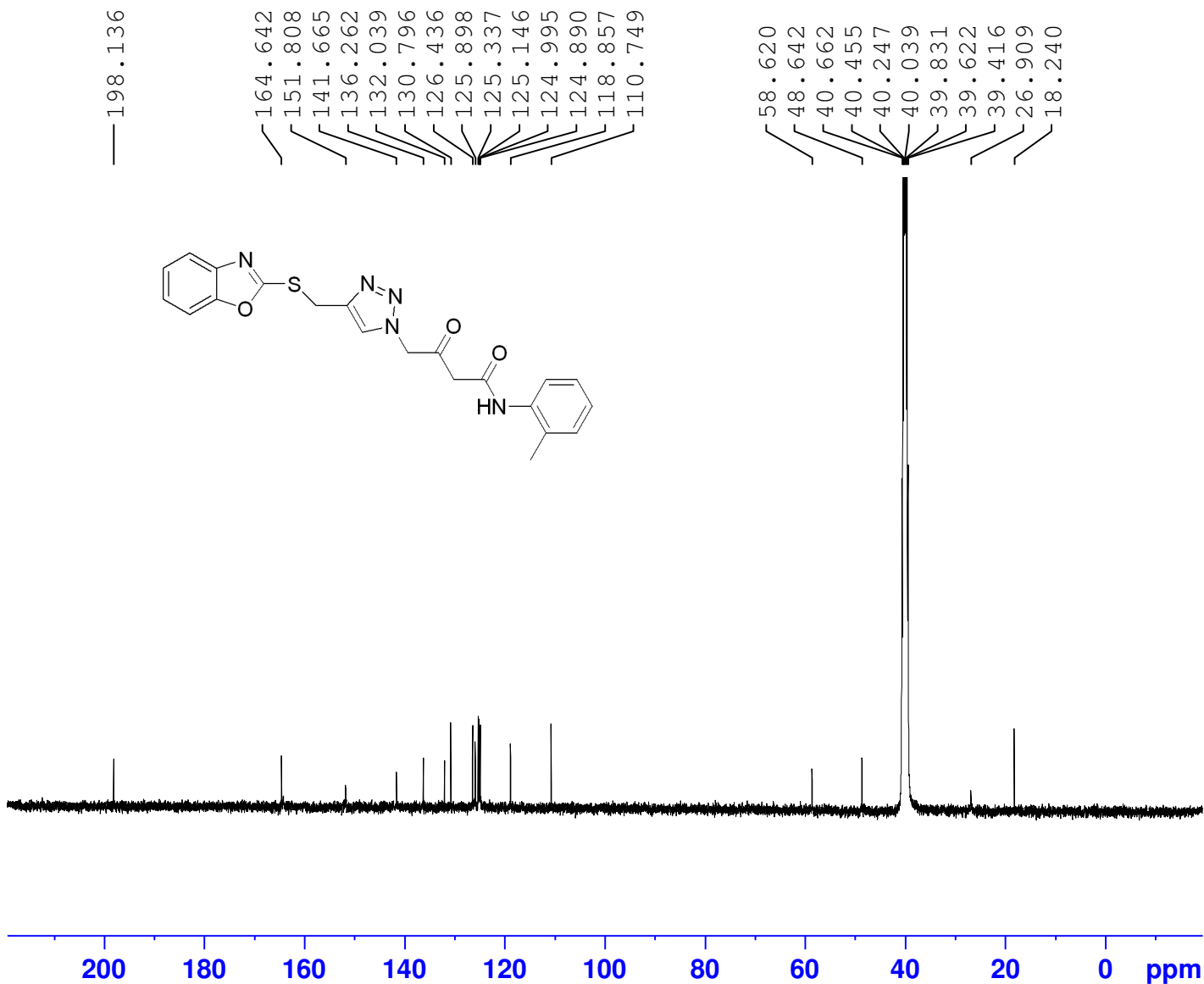
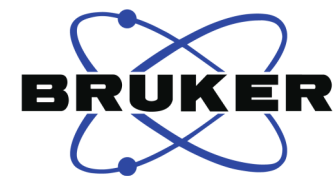


Current Data Parameters
NAME 23000780-BO-2CH3
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20230803
Time 10.03 h
INSTRUM spect
PROBHD Z108618_0984 (
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 4.0894465 sec
RG 32.13
DW 62.400 usec
DE 17.09 usec
TE 300.4 K
D1 1.00000000 sec
TD0 1
SF01 400.3124719 MHz
NUC1 1H
P0 4.67 usec
P1 14.00 usec
PLW1 11.28999996 W

F2 - Processing parameters
SI 65536
SF 400.3100000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

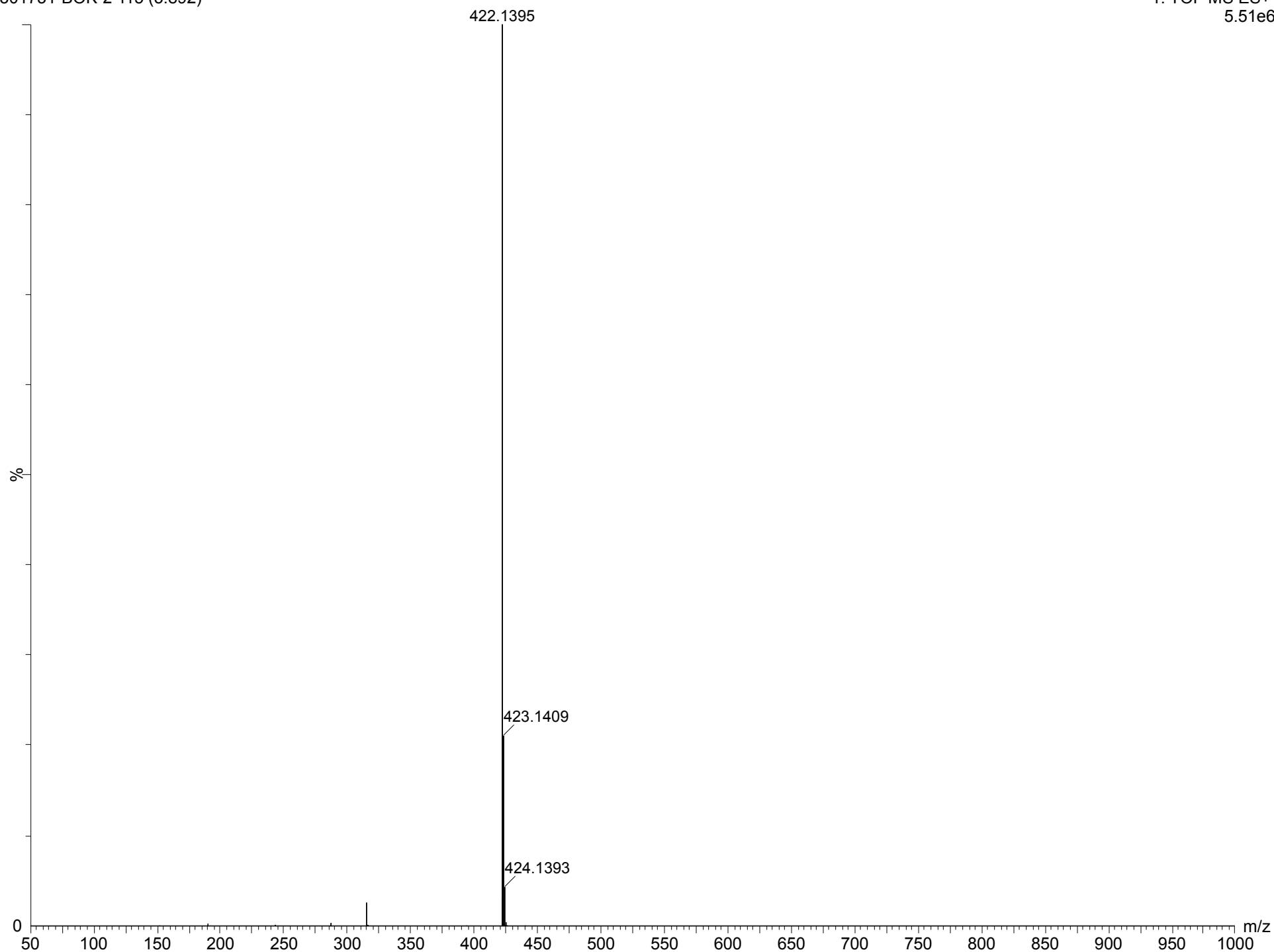
BOK-2
¹³C-NMR in DMSO



Current Data Parameters
 NAME 23000780-BO-2CH3
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230801
 Time 5.07 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 298.1 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

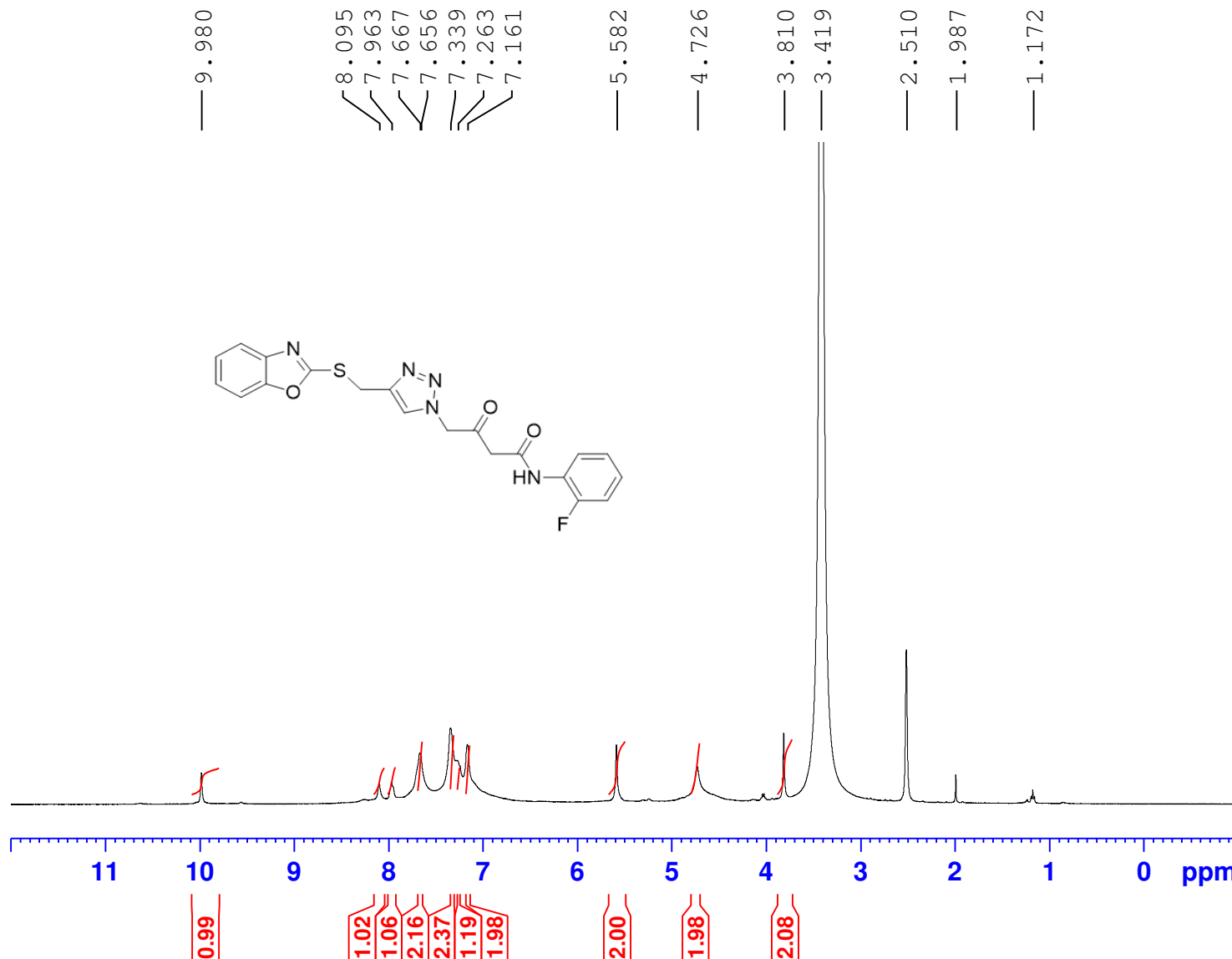
F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Mass spectrum of 4-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-3-oxo-N-(o-tolyl) butanamide 3b (BOK-2).

COMPOUND 3c (BOK-3) SPECTRAL DATA

BOK-3
¹H-NMR in DMSO

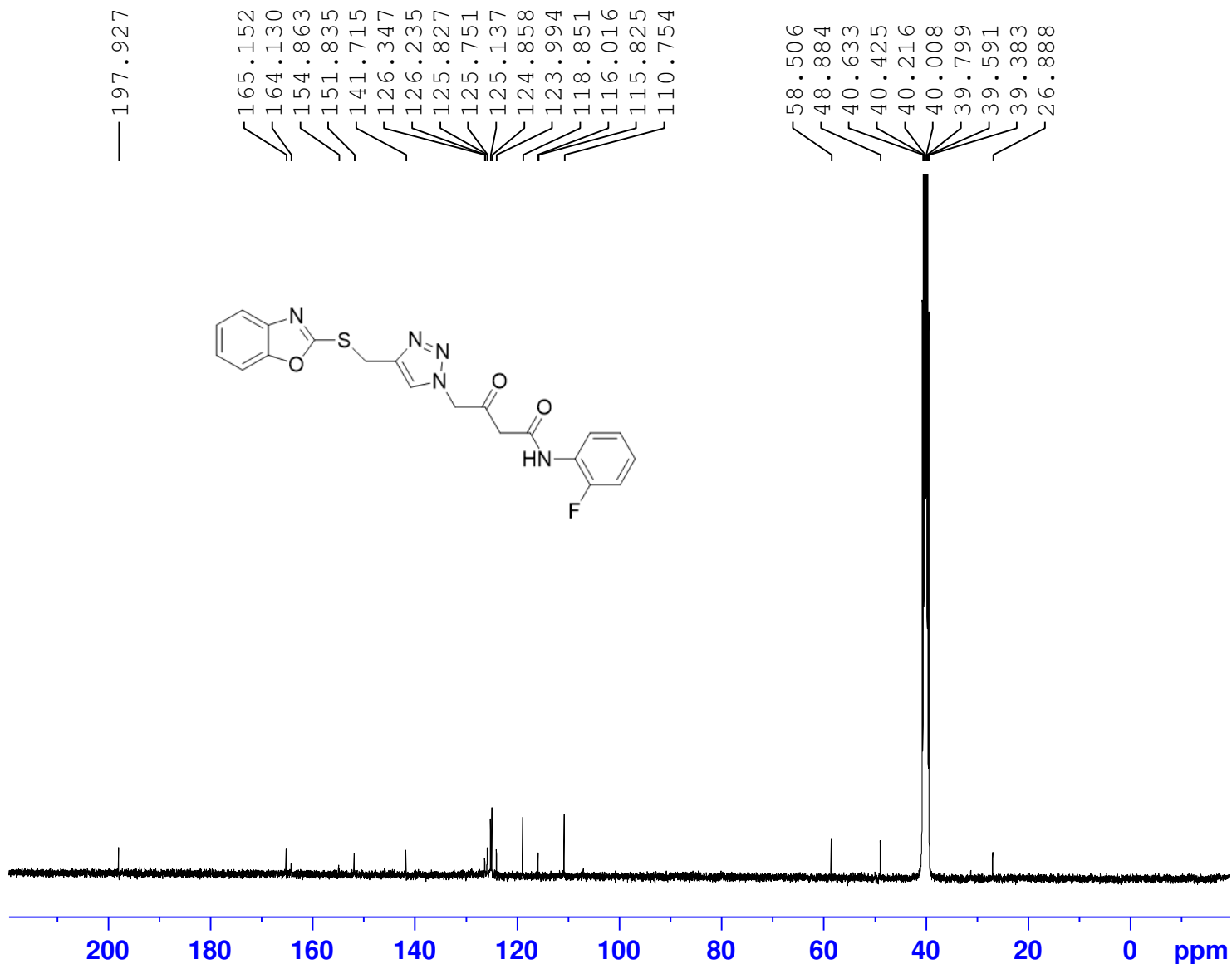


Current Data Parameters
 NAME 23000784-BO-2F
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230801
 Time 7.30 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.244532 Hz
 AQ 4.0894465 sec
 RG 114.18
 DW 62.400 usec
 DE 17.09 usec
 TE 297.2 K
 D1 1.00000000 sec
 TD0 1
 SFO1 400.3124719 MHz
 NUC1 1H
 P0 4.67 usec
 P1 14.00 usec
 PLW1 11.28999996 W

F2 - Processing parameters
 SI 65536
 SF 400.3100000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

BOK-3
¹³C-NMR in DMSO

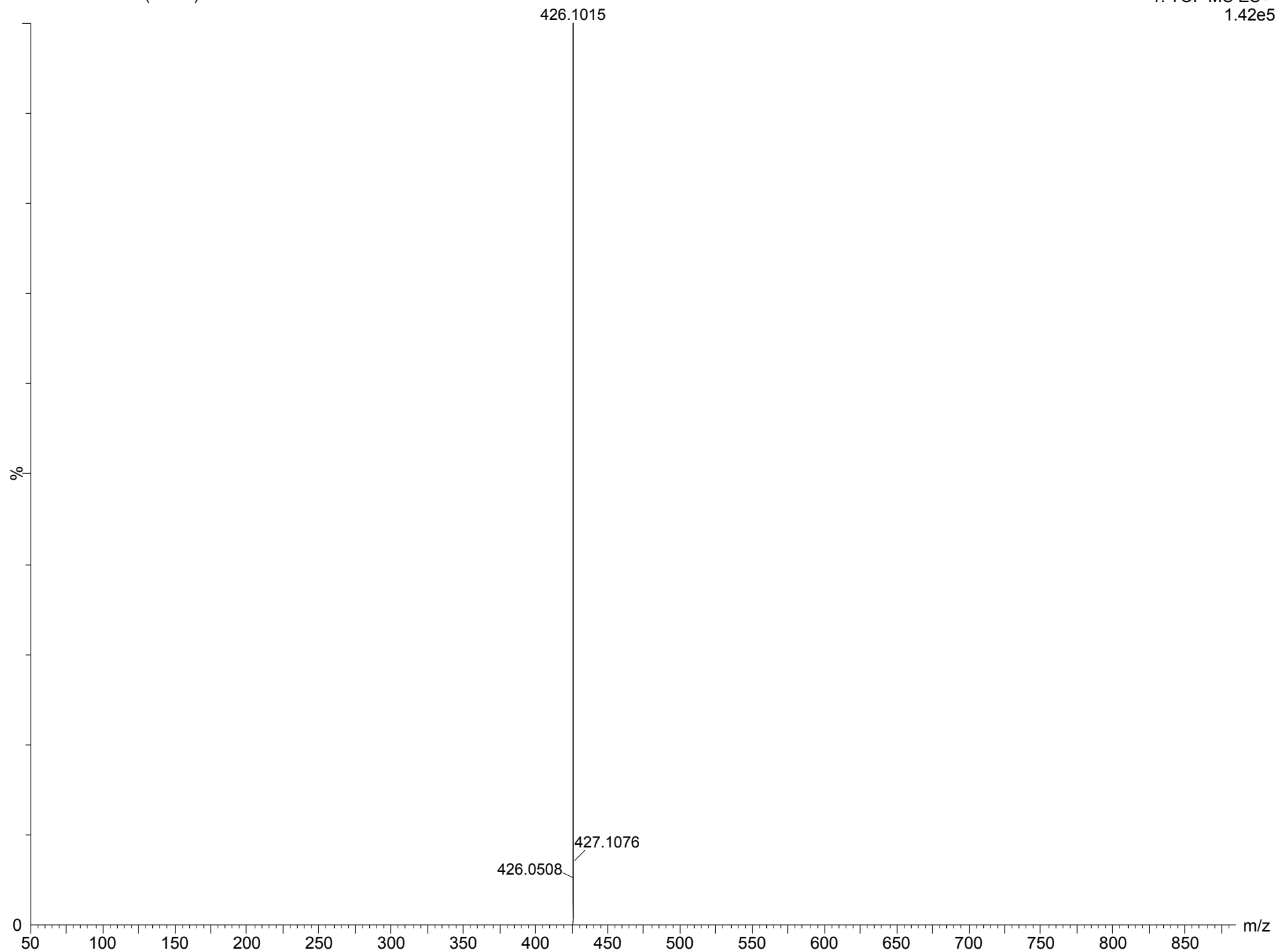


Current Data Parameters
 NAME 23000847-BO-2F
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230817
 Time 21.11 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 3000
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 1.3631488 sec
 RG 202.84
 DW 20.800 usec
 DE 6.50 usec
 TE 298.1 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 ¹³C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 ¹H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

¹³C NMR spectrum of 4-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-N-(2-fluorophenyl)-3-oxobutanamide **3c** (BOK-3).

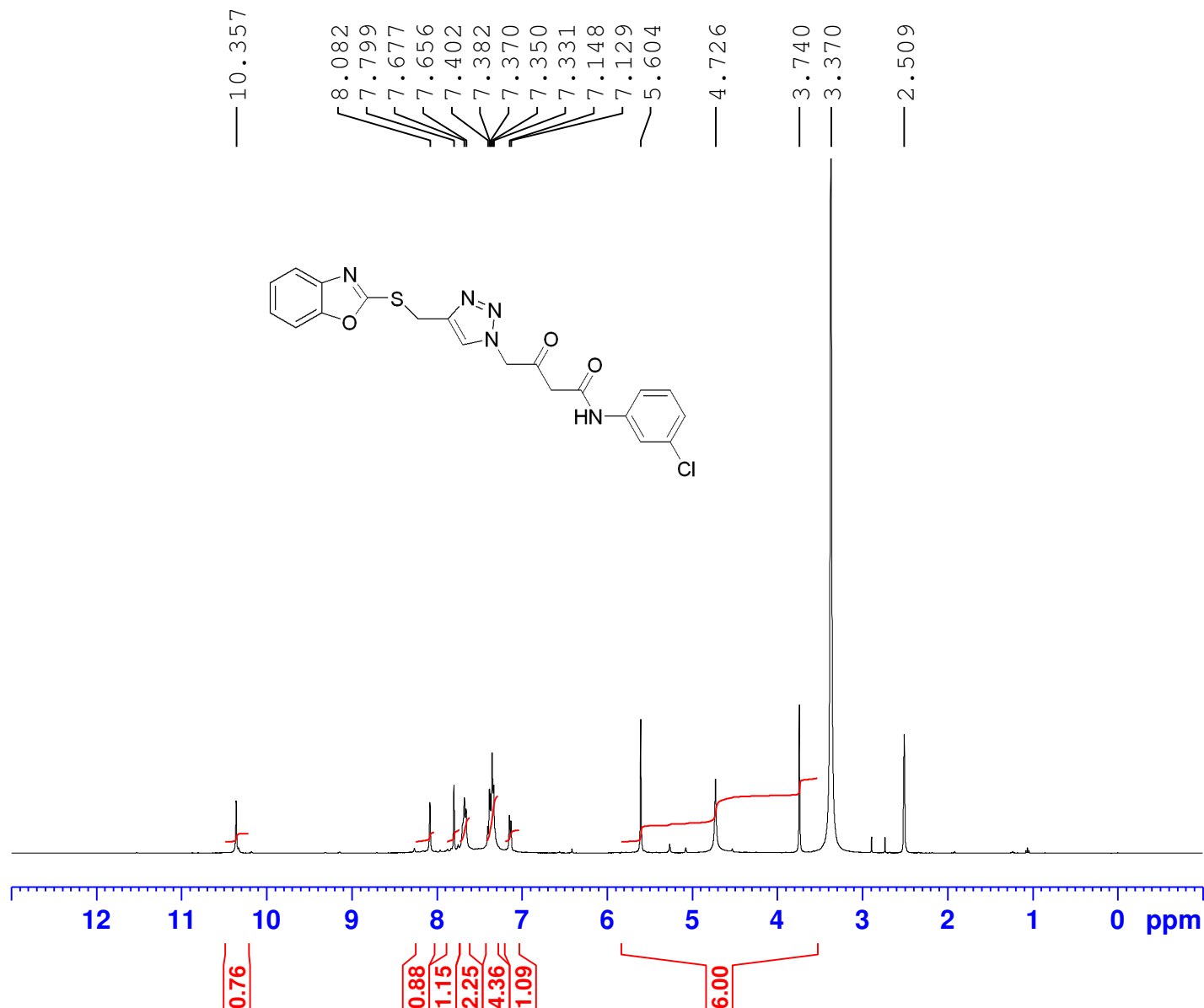


COMPOUND 3d (BOK-4) SPECTRAL DATA

BOK-4

¹H-NMR in DMSO

Chromagen
Analytical Solutions



Current Data Parameters
NAME 23000836-BO-3C1
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20230814
Time 17.56 h
INSTRUM spect
PROBHD Z108618_0984 (
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.244532 Hz
AQ 4.0894465 sec
RG 160.67
DW 62.400 usec
DE 17.09 usec
TE 297.8 K
D1 1.0000000 sec
TD0 1
SFO1 400.3124719 MHz
NUC1 1H
P0 4.67 usec
P1 14.00 usec
PLW1 11.28999996 W

F2 - Processing parameters
SI 65536
SF 400.3100000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

¹H NMR spectrum of 4-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-N-(3-chlorophenyl)-3-oxobutanamide **3d (BOK-4)**

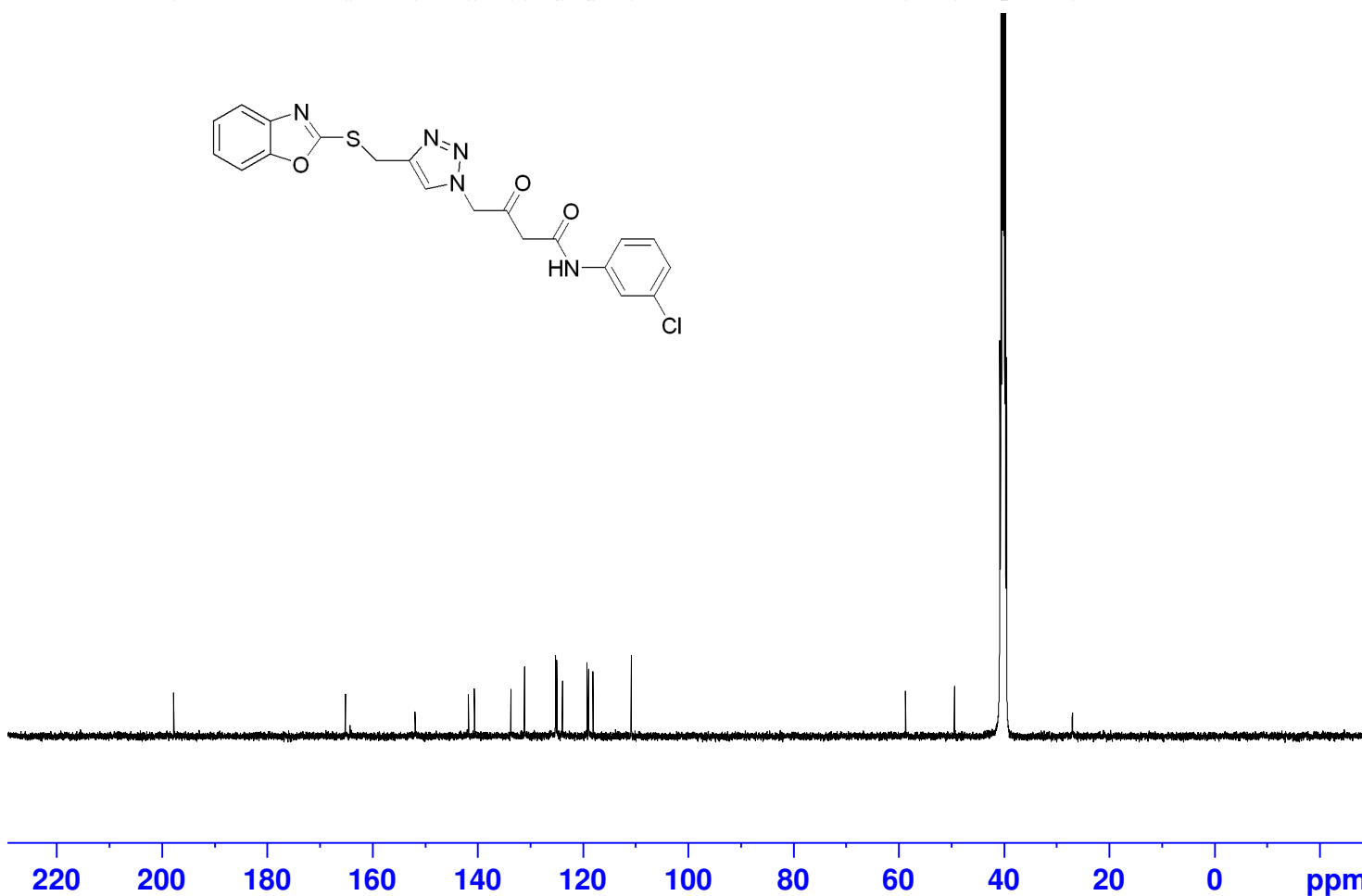
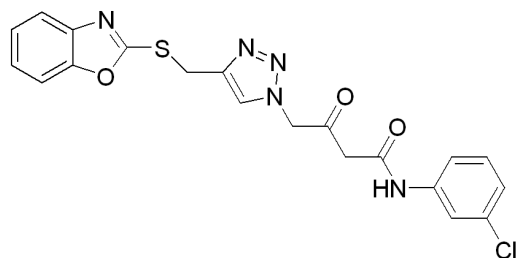
BOK-4
¹³C-NMR in DMSO



197.711

165.064
 164.184
 151.823
 141.691
 140.531
 133.584
 131.007
 125.135
 124.864
 123.800
 119.119
 118.851
 118.007
 110.750

58.608
 49.292
 40.673
 40.465
 40.257
 40.048
 39.840
 39.632
 39.424
 26.885

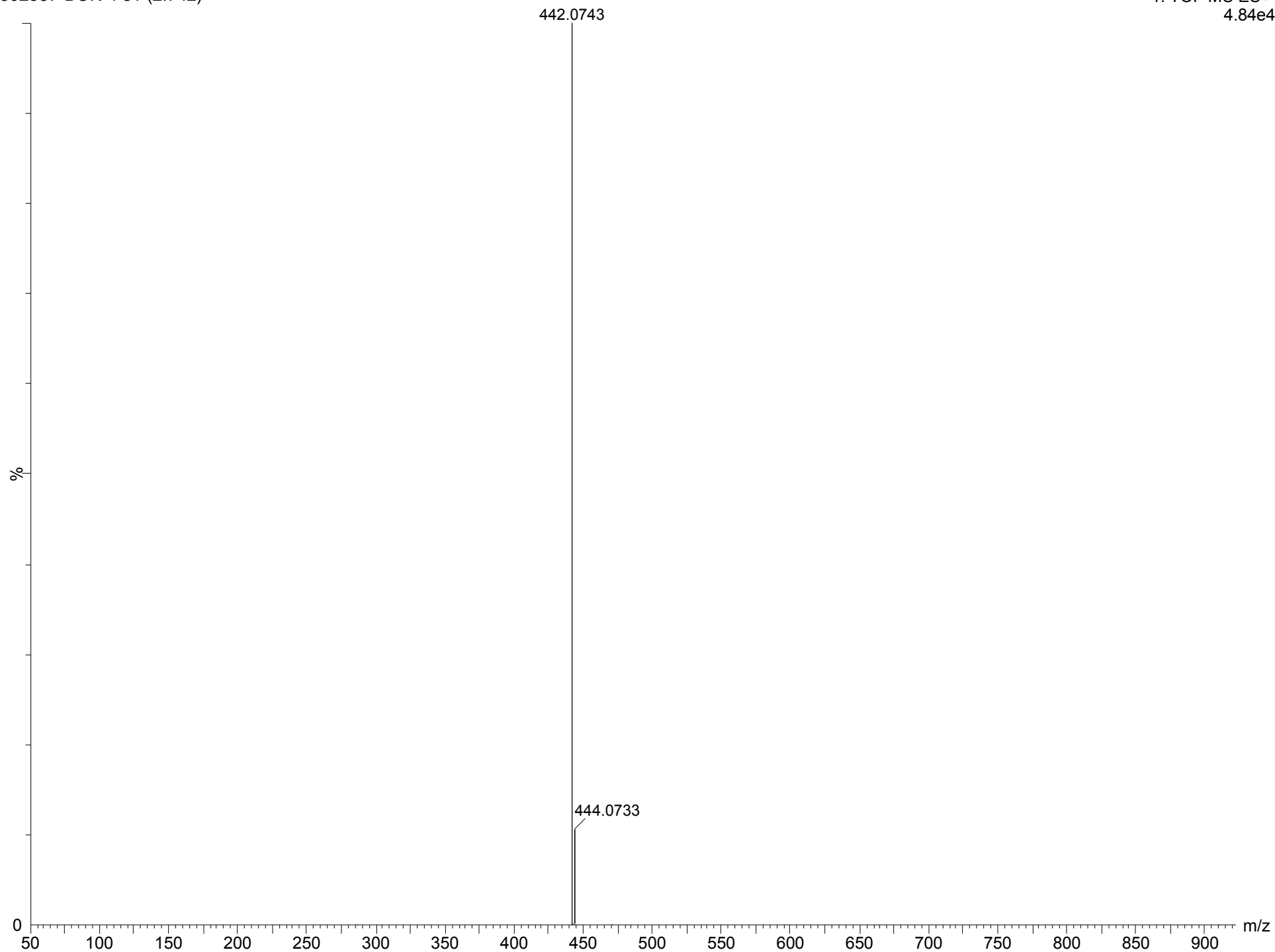


Current Data Parameters
 NAME 23000836-BO-3C1
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230816
 Time 11.22 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 2048
 DS 4
 SWH 26041.666 Hz
 FIDRES 0.794729 Hz
 AQ 1.2582912 sec
 RG 202.84
 DW 19.200 usec
 DE 6.50 usec
 TE 298.0 K
 D1 1.0000000 sec
 D11 0.0300000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

¹³C NMR spectrum of 4-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-N-(3-chlorophenyl)-3-oxobutanamide **3d** (BOK-4).

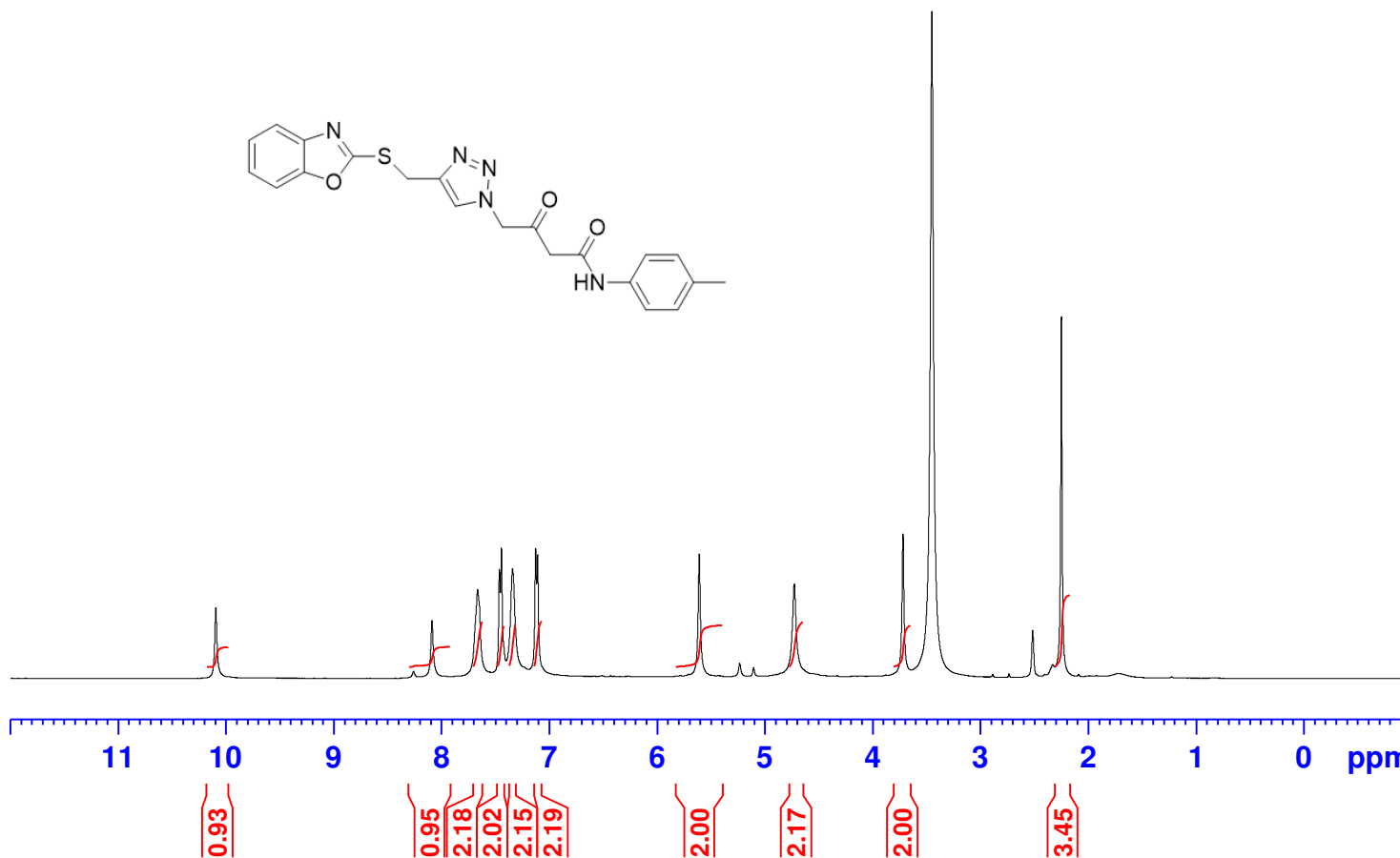
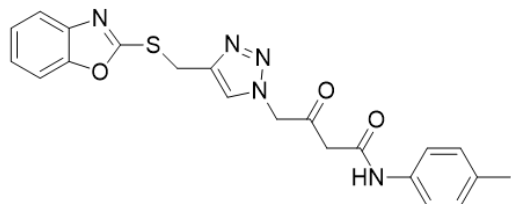


COMPOUND 3e (BOK-5) SPECTRAL DATA

BOK-5
¹H-NMR in DMSO



— 10.091
 8.085
 7.662
 7.460
 7.441
 7.338
 7.124
 7.105
 — 5.606
 — 4.723
 — 3.715
 — 3.446
 — 2.511
 — 2.245

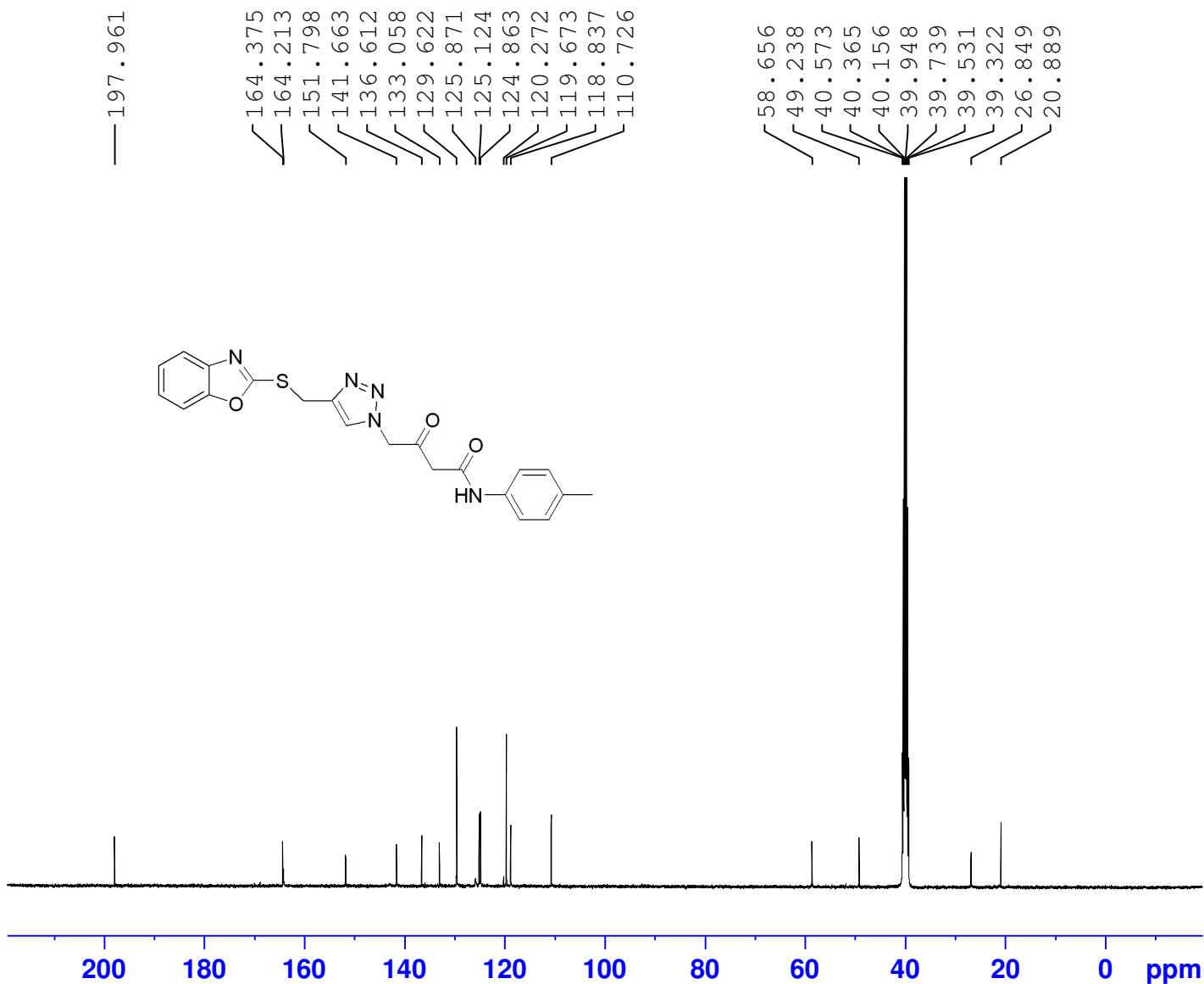
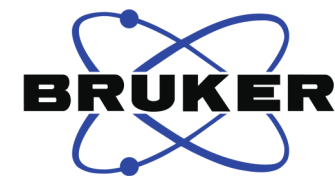


Current Data Parameters
 NAME 23000781-BO-4CH3
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230801
 Time 5.11 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.244532 Hz
 AQ 4.0894465 sec
 RG 65.15
 DW 62.400 usec
 DE 17.09 usec
 TE 297.0 K
 D1 1.00000000 sec
 TD0 1
 SF01 400.3124719 MHz
 NUC1 1H
 P0 4.67 usec
 P1 14.00 usec
 PLW1 11.28999996 W

F2 - Processing parameters
 SI 65536
 SF 400.3100000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

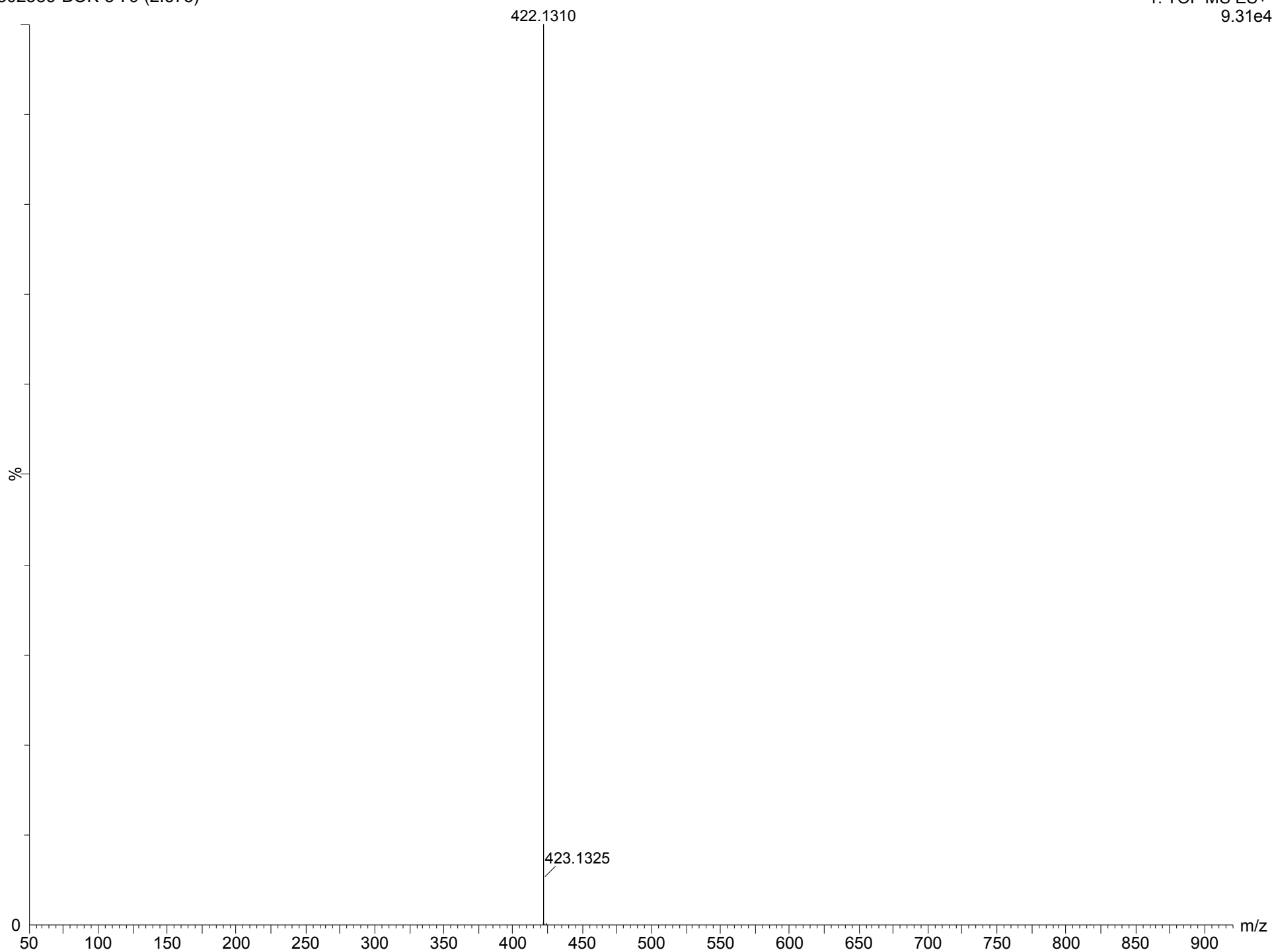
BOK-5
¹³C-NMR in DMSO



Current Data Parameters
 NAME 23000781-BO-4CH3
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230801
 Time 5.53 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 297.9 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



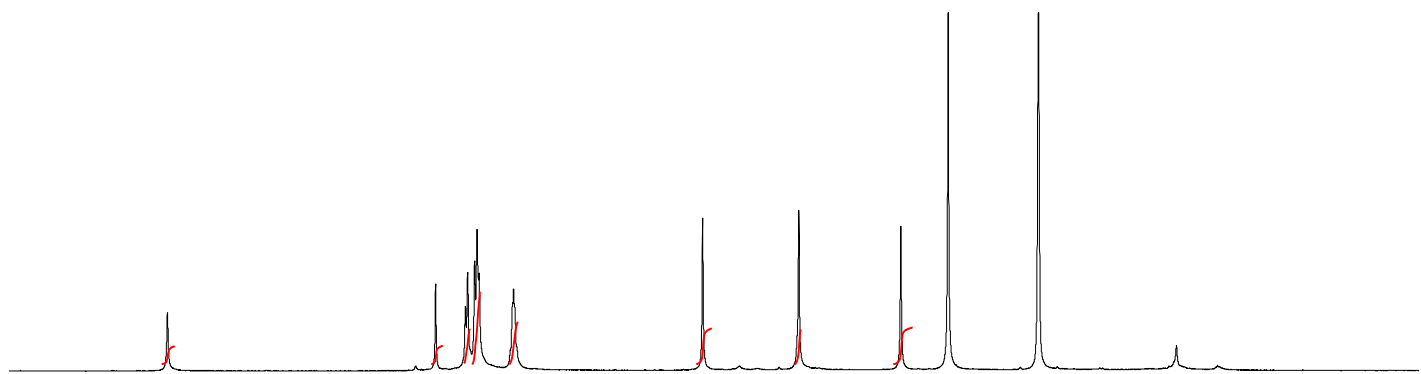
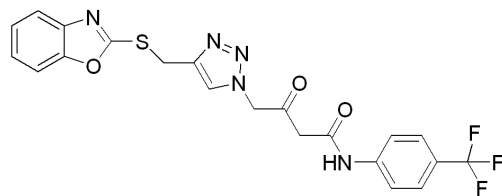
Mass spectrum of 4-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-3-oxo-N-(p-tolyl) butanamide3e (BOK-5).

COMPOUND 3f (BOK-6) SPECTRAL DATA

BOK-6
¹H-NMR in DMSO



— 10.536
 8.064
 7.790
 7.769
 7.705
 7.682
 7.664
 7.375
 7.346
 — 5.603
 — 4.718
 — 3.778
 — 3.341
 — 2.509
 — 1.238



11 10 9 8 7 6 5 4 3 2 1 0 ppm

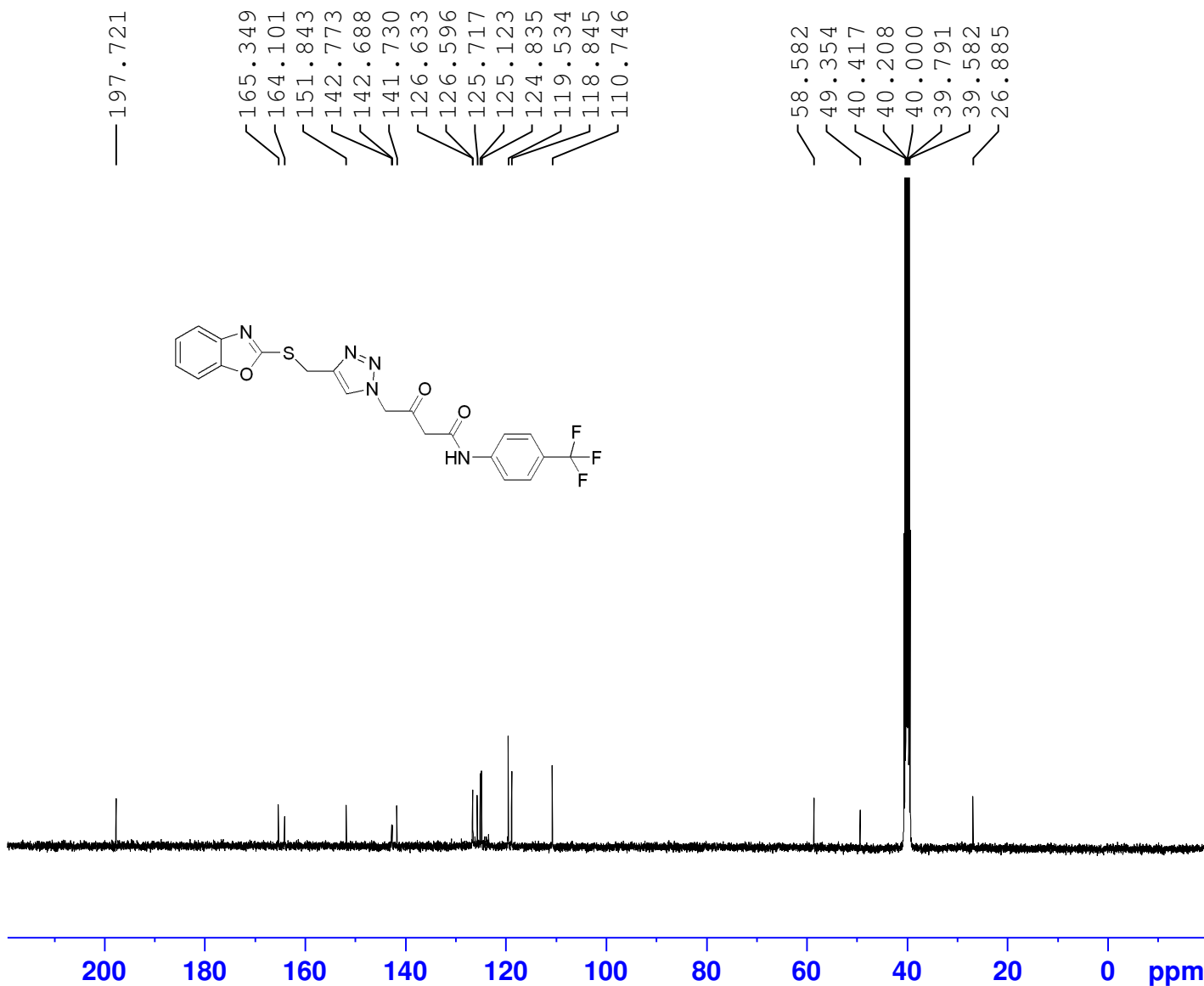
1.01
 1.03
 2.01
 4.18
 2.36
 2.00
 2.00
 2.05

Current Data Parameters
 NAME 23000350-BO-CF3
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230403
 Time 16.06 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.244532 Hz
 AQ 4.0894465 sec
 RG 255.12
 DW 62.400 usec
 DE 17.09 usec
 TE 297.3 K
 D1 1.00000000 sec
 TD0 1
 SFO1 400.3124719 MHz
 NUC1 1H
 P0 4.67 usec
 P1 14.00 usec
 PLW1 11.28999996 W

F2 - Processing parameters
 SI 65536
 SF 400.3100000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

BOK-6
¹³C-NMR in DMSO

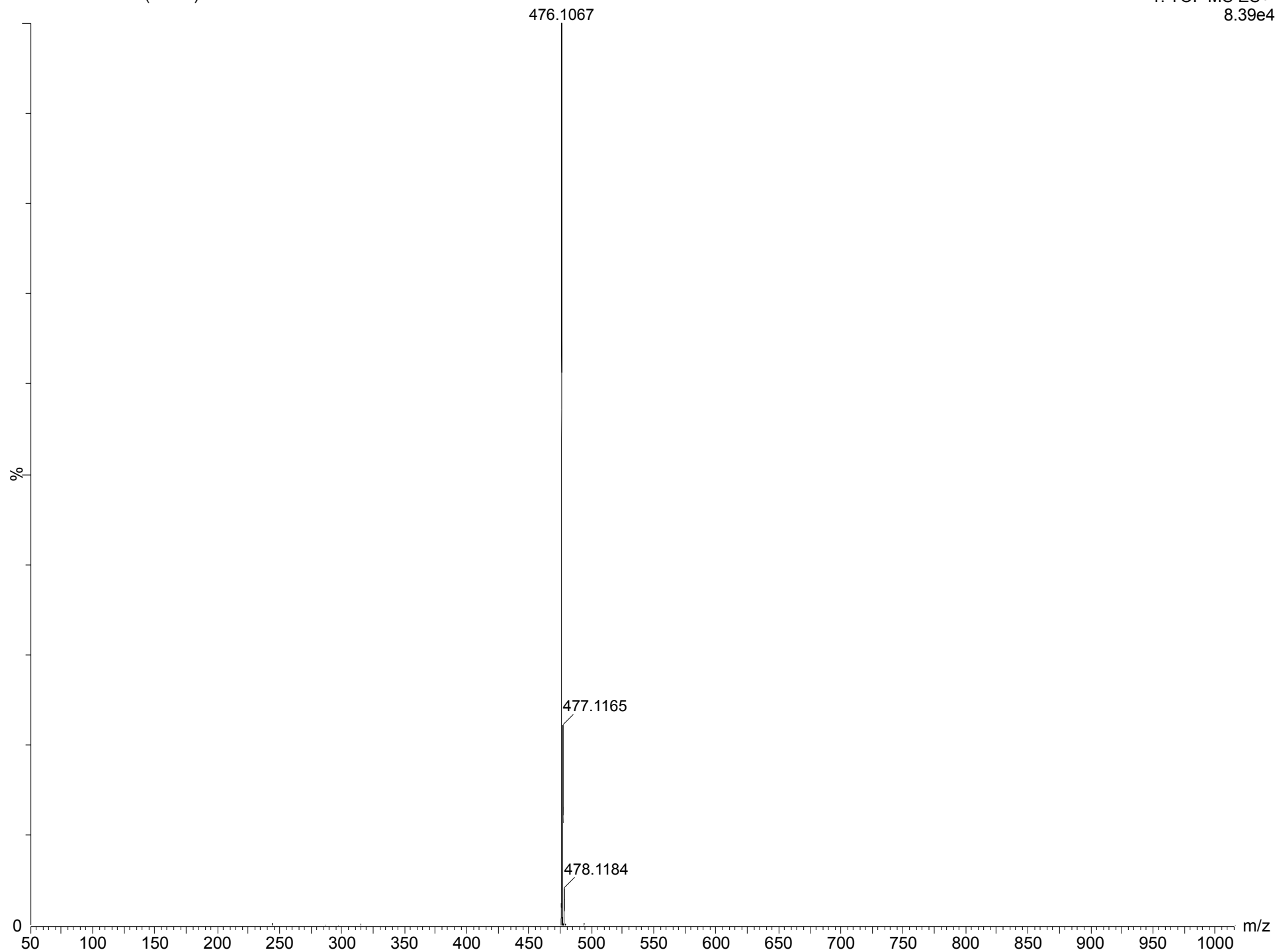


Current Data Parameters
 NAME 23000439-BO-4CF3
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230430
 Time 16.16 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 1.3631488 sec
 RG 202.84
 DW 20.800 usec
 DE 6.50 usec
 TE 298.5 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

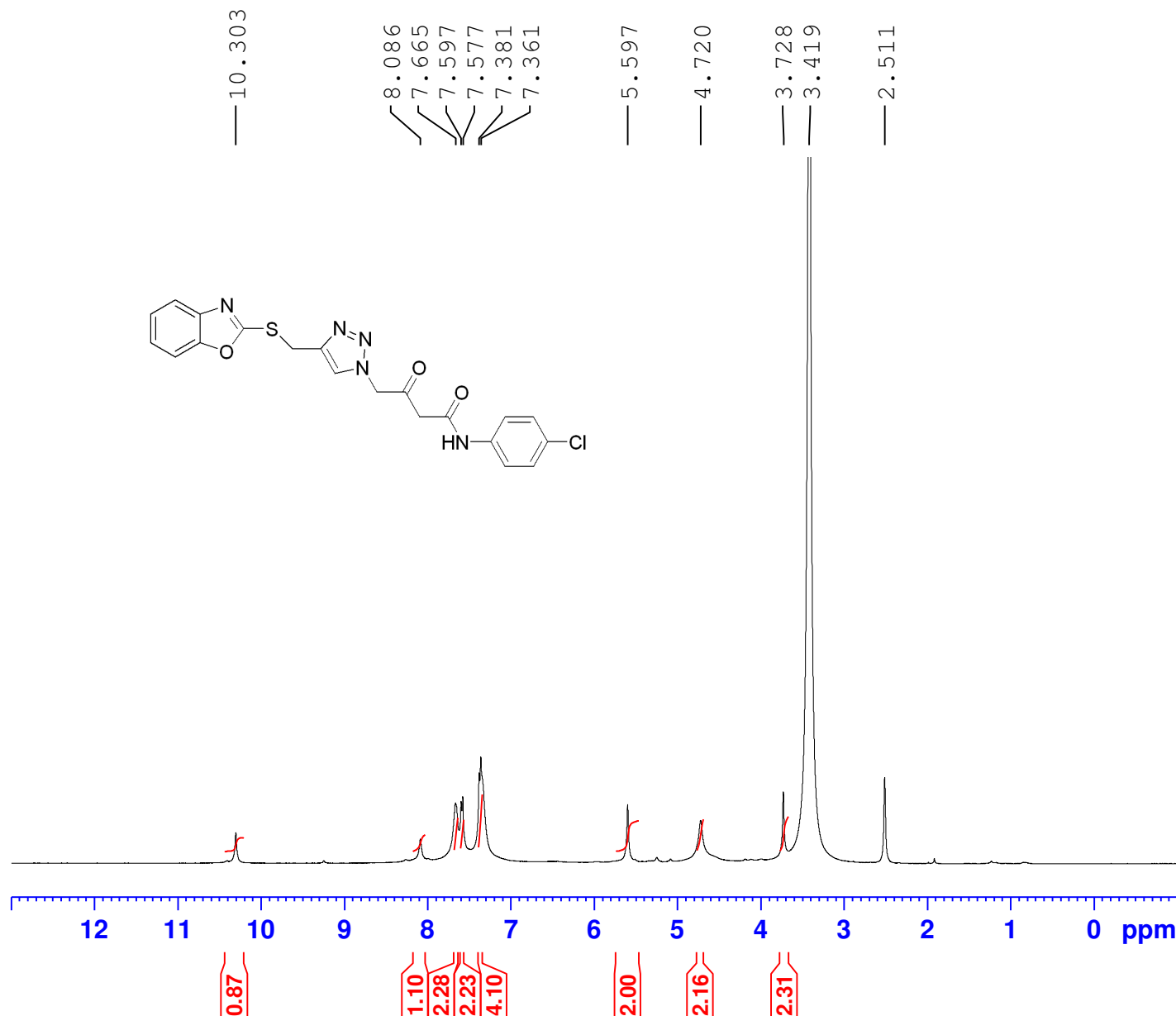
F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

¹³C NMR spectrum of 4-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-3-oxo-N-(4-(trifluoromethyl)phenyl)butanamide **3f** (BOK-6).

Mass spectrum of 4-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-3-oxo-N-(4-(trifluoromethyl) phenyl)butanamide **3f (BOK-6)**.

COMPOUND 3g (BOK-7) SPECTRAL DATA

BOK-7
¹H-NMR in DMSO



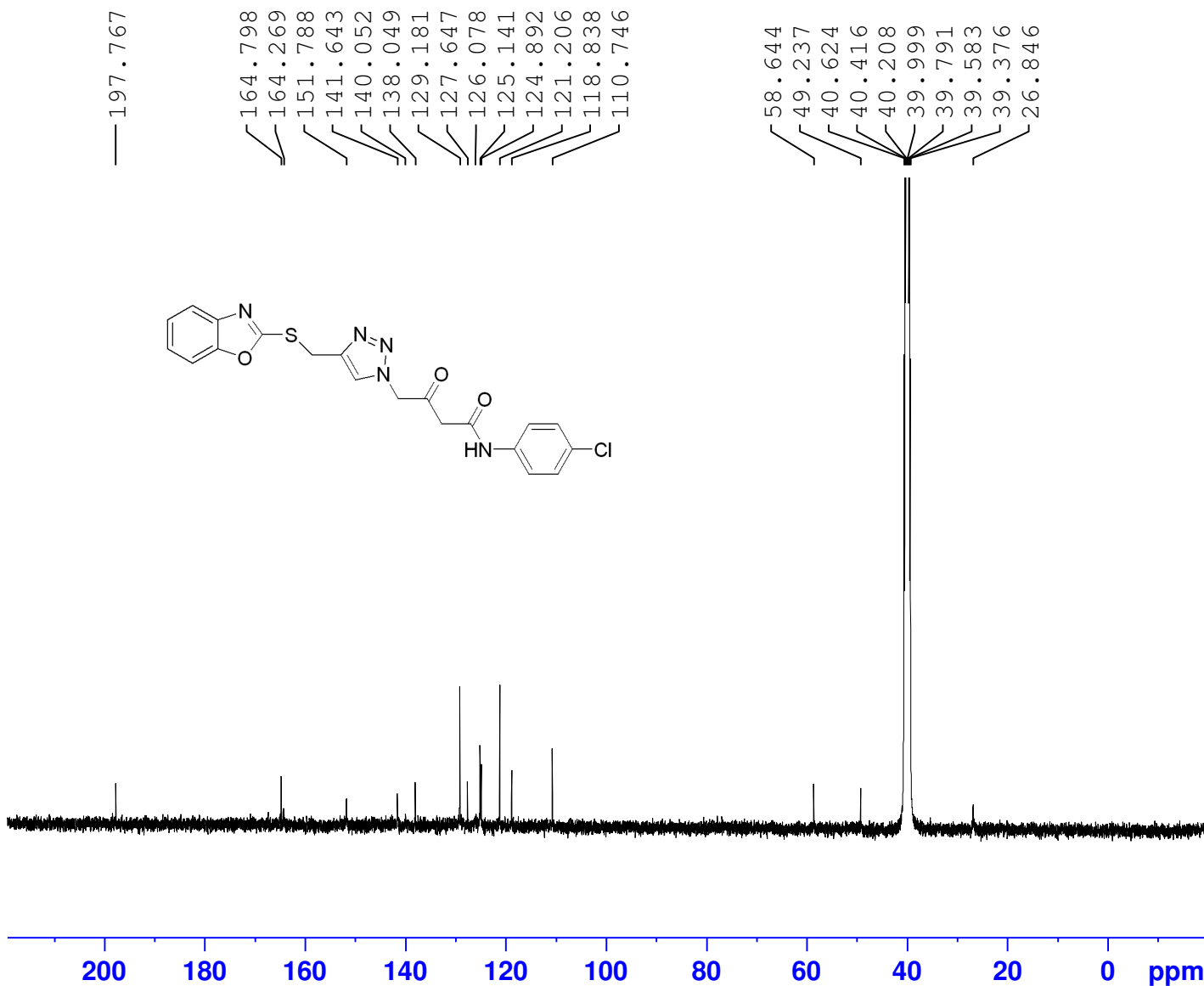
Current Data Parameters
 NAME 23000783-BO-4CL
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230801
 Time 6.44 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.244532 Hz
 AQ 4.0894465 sec
 RG 114.18
 DW 62.400 usec
 DE 17.09 usec
 TE 297.2 K
 D1 1.00000000 sec
 TD0 1
 SFO1 400.3124719 MHz
 NUC1 1H
 P0 4.67 usec
 P1 14.00 usec
 PLW1 11.28999996 W

F2 - Processing parameters
 SI 65536
 SF 400.3100000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

¹H NMR spectrum of 4-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-N-(4-chlorophenyl)-3-oxo butanamide **3g (BOK-7)**.

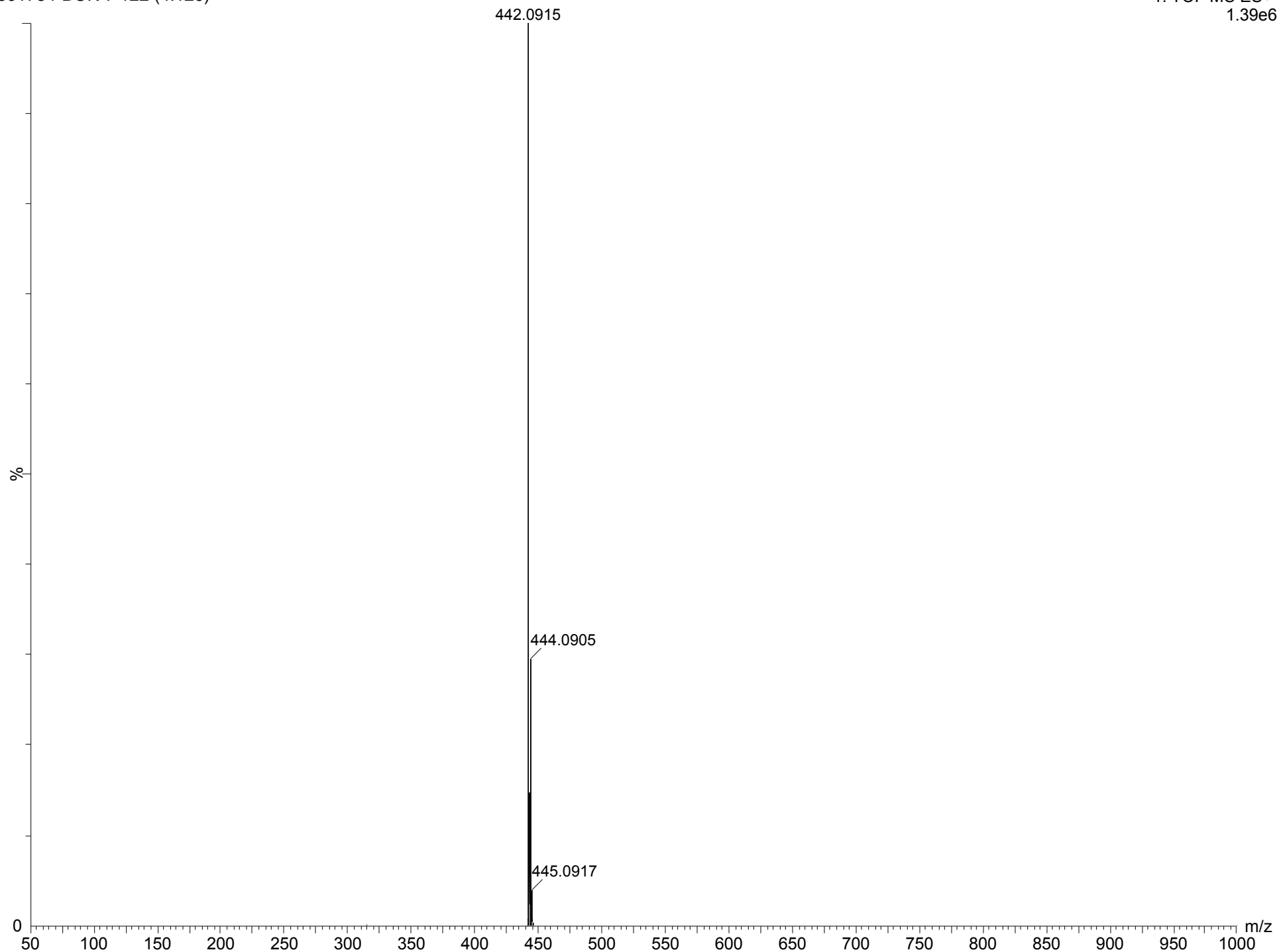
BOK-7
¹³C-NMR in DMSO



Current Data Parameters
 NAME 23000783-BO-4CL
 EXPNO 2
 PROCNO 1

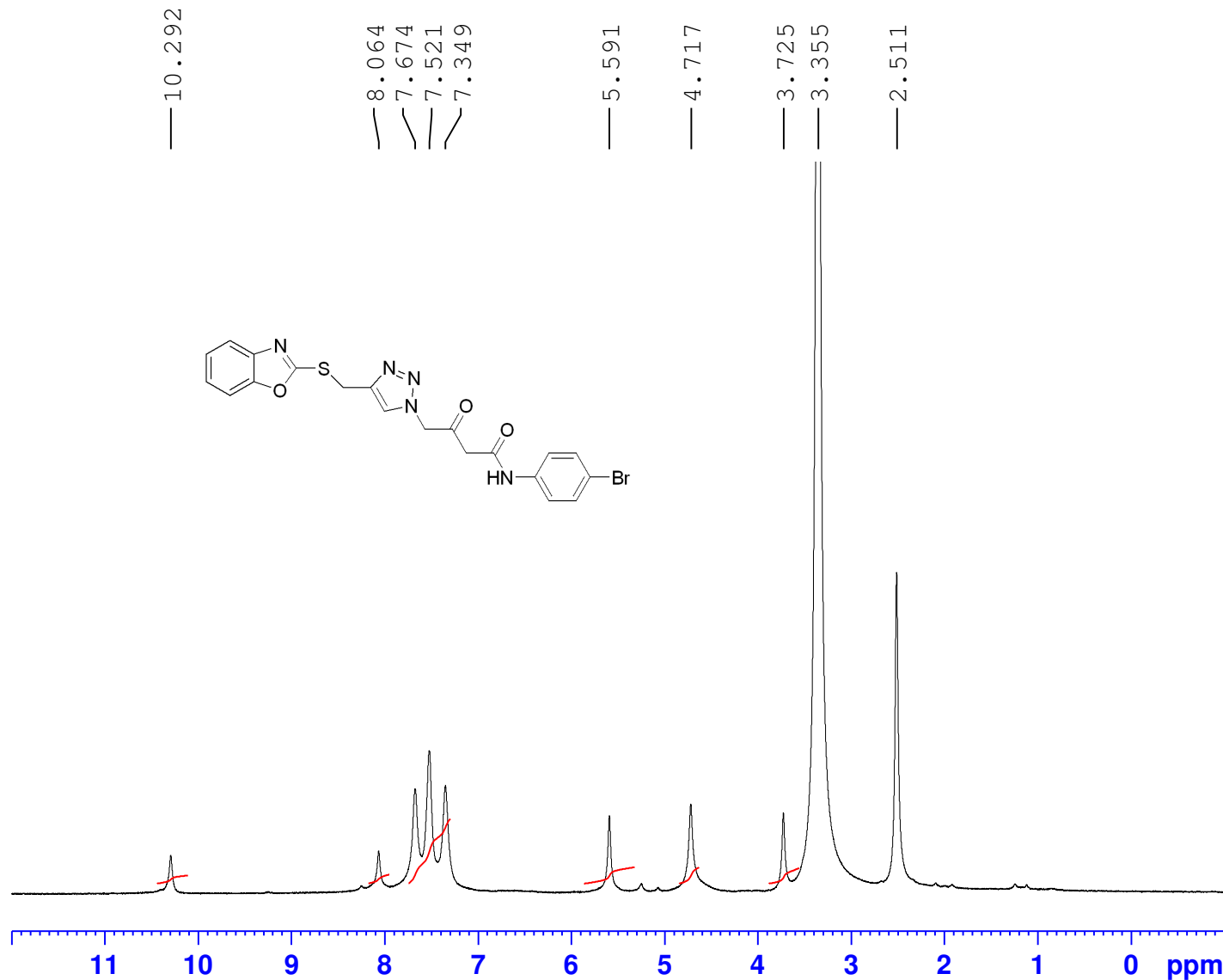
F2 - Acquisition Parameters
 Date_ 20230801
 Time 7.26 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

Mass spectrum of 4-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-N-(4-chlorophenyl)-3-oxo butanamide **3g (BOK-7)**.

COMPOUND 3h (BOK-8) SPECTRAL DATA

BOK-8
¹H-NMR in DMSO



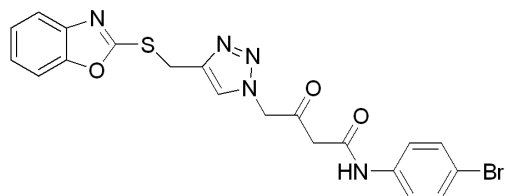
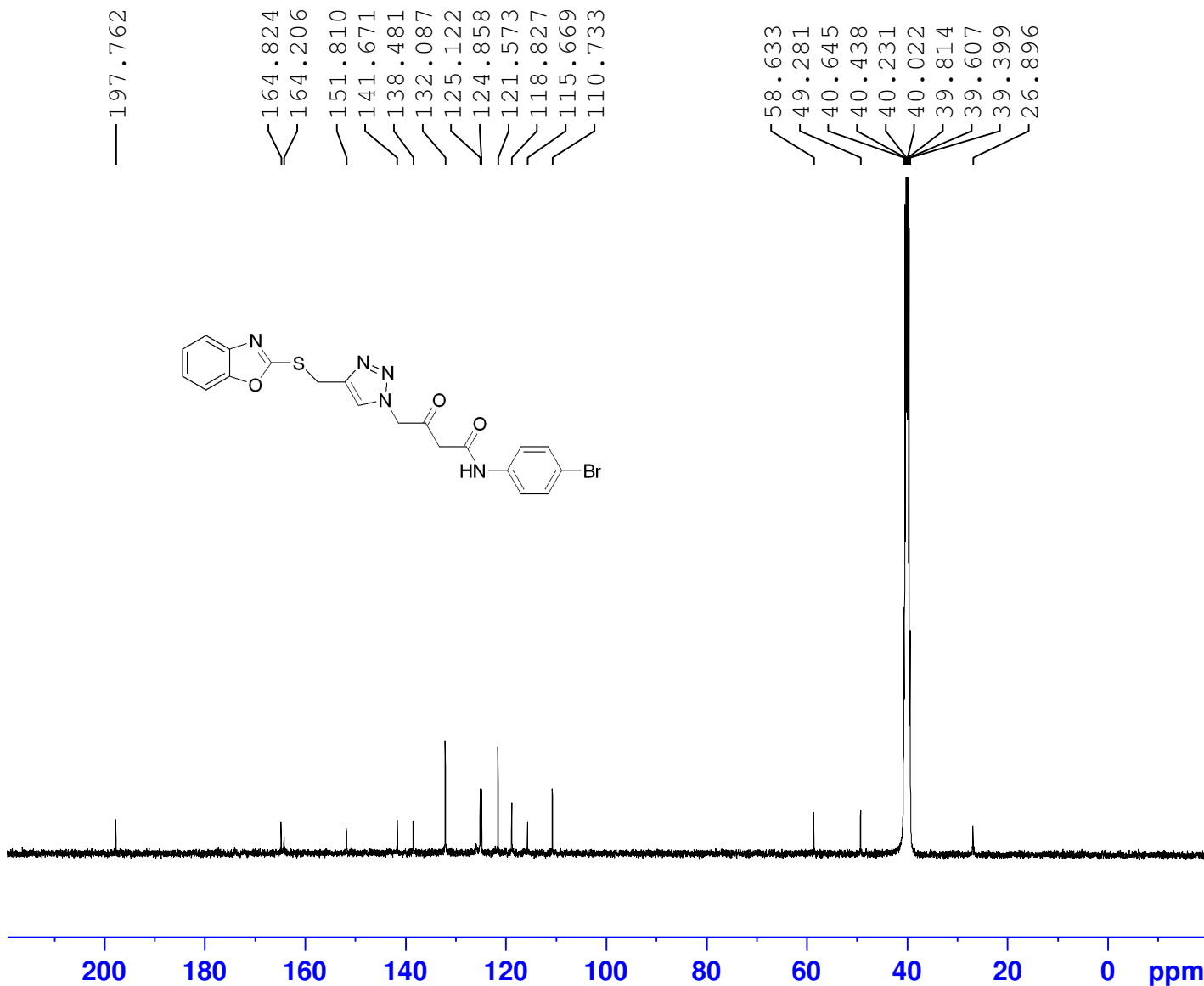
Current Data Parameters
 NAME 23000509-BO-4Br
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230520
 Time 10.36 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 32
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.244532 Hz
 AQ 4.0894465 sec
 RG 32.13
 DW 62.400 usec
 DE 17.09 usec
 TE 297.8 K
 D1 1.00000000 sec
 TD0 1
 SFO1 400.3124719 MHz
 NUC1 1H
 P0 4.67 usec
 P1 14.00 usec
 PLW1 11.28999996 W

F2 - Processing parameters
 SI 65536
 SF 400.3100000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

¹H NMR spectrum of 4-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-N-(4-bromophenyl)-3-oxo butanamide **3h (BOK-8)**.

BOK-8
¹³C-NMR in DMSO

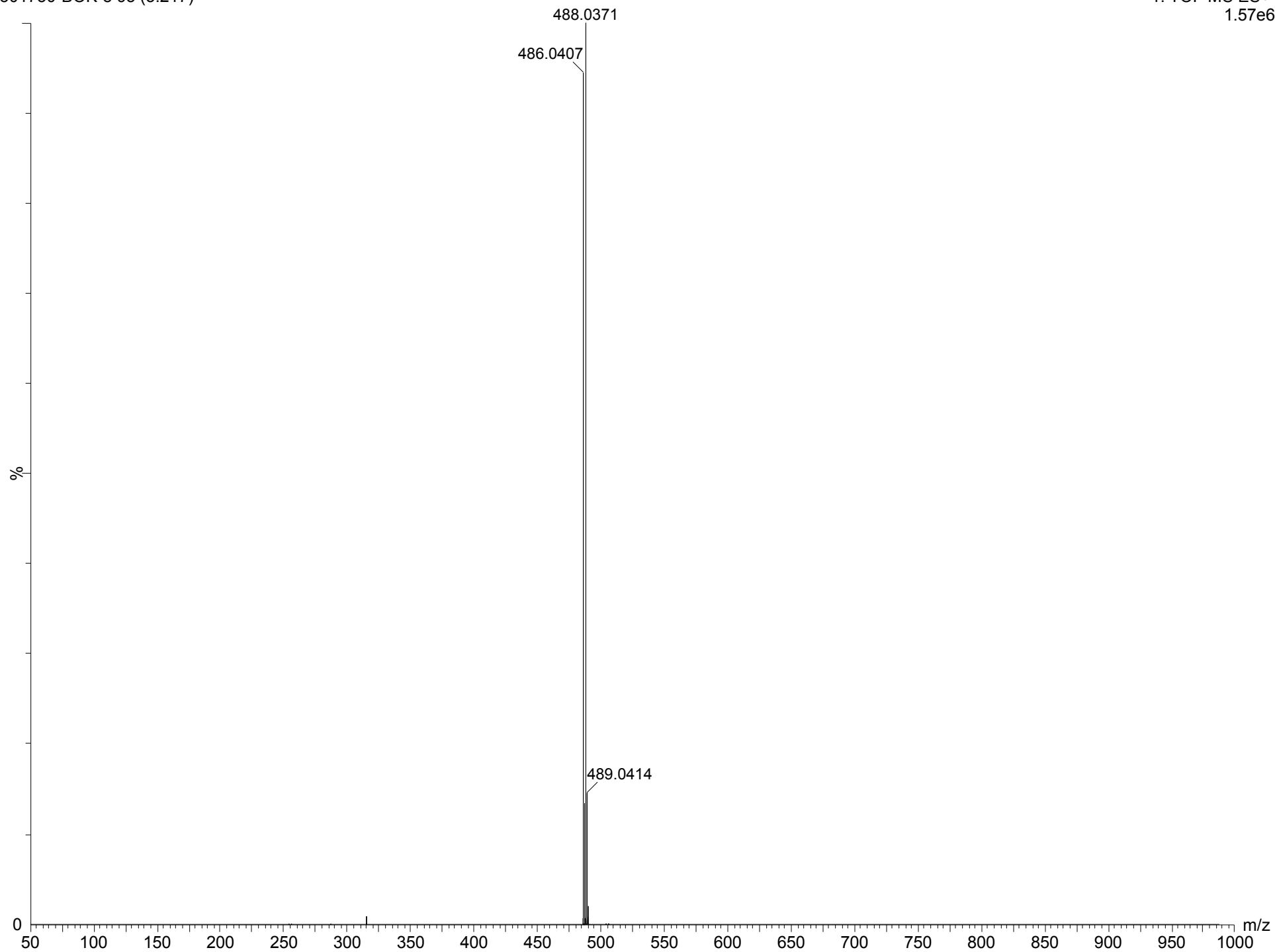


Current Data Parameters
 NAME 23000509-BO-4Br
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230522
 Time 14.40 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 4
 SWH 26041.666 Hz
 FIDRES 0.794729 Hz
 AQ 1.2582912 sec
 RG 202.84
 DW 19.200 usec
 DE 6.50 usec
 TE 298.8 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

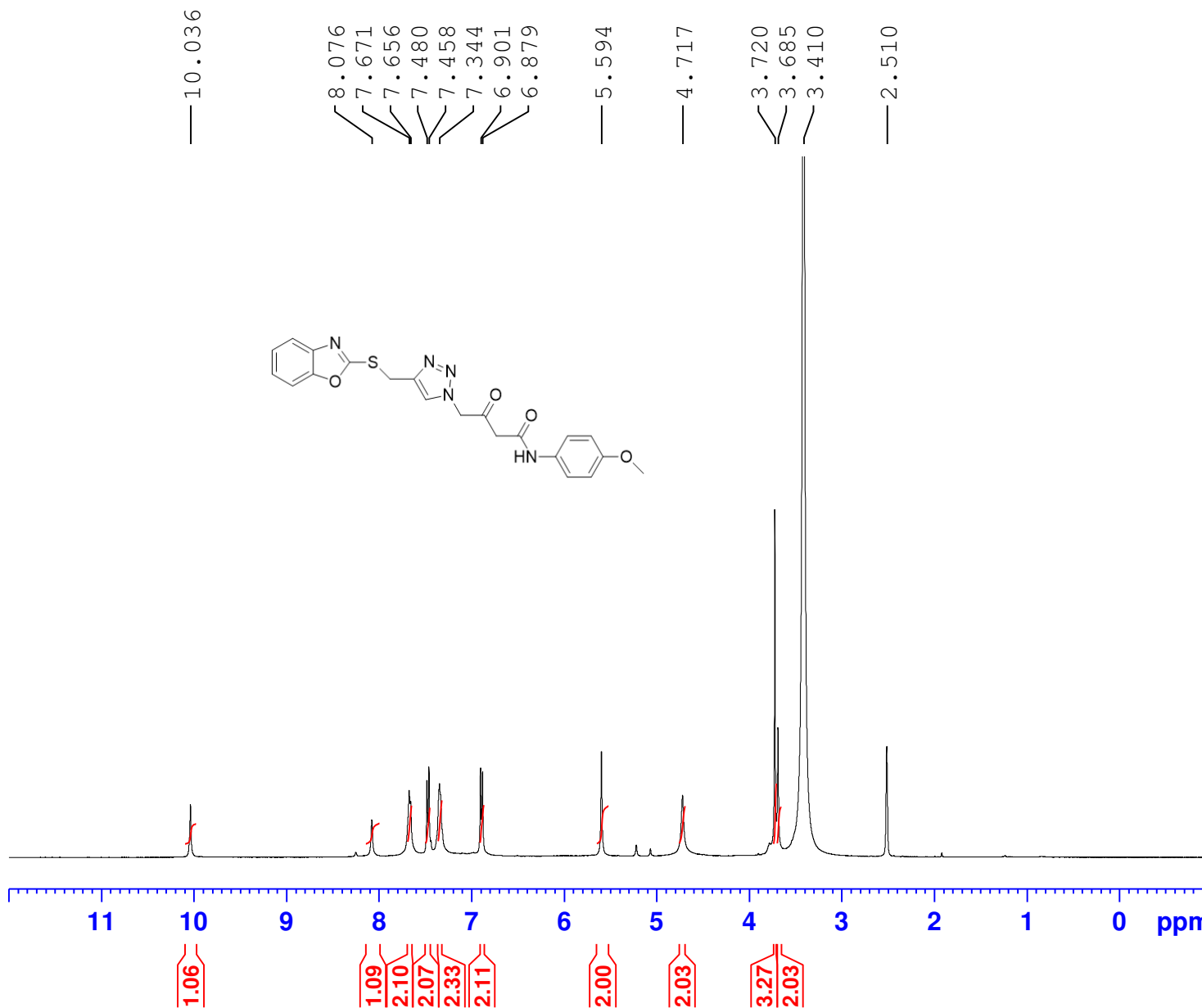
F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

¹³C NMR spectrum of 4-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-N-(4-bromophenyl)-3-oxobutanamide **3h** (BOK-8).



COMPOUND 3i (BOK-9) SPECTRAL DATA

BOK-9
¹H-NMR in DMSO



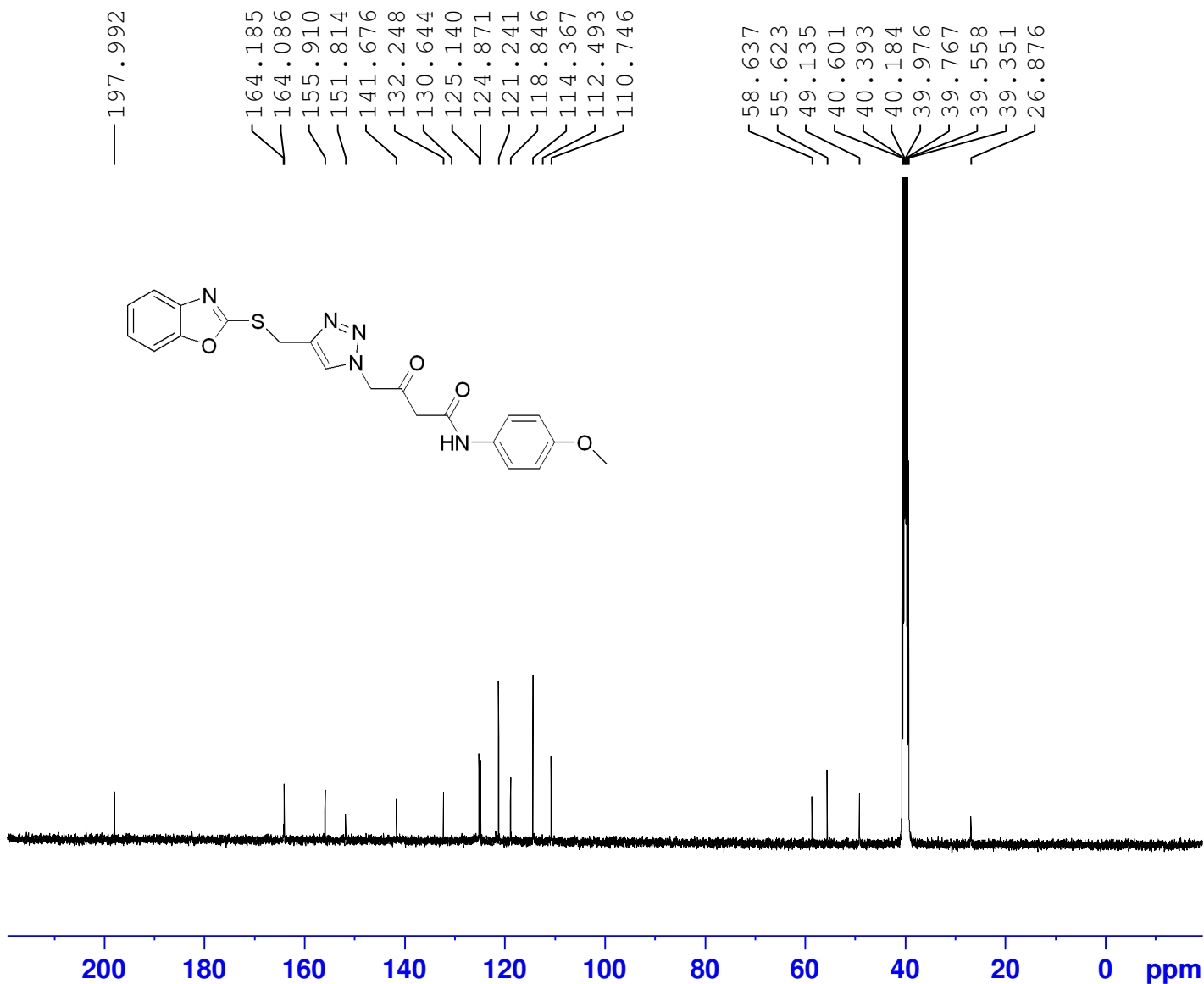
Current Data Parameters
 NAME 23000782-BO-4OCH3
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230801
 Time 5.57 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.244532 Hz
 AQ 4.0894465 sec
 RG 114.18
 DW 62.400 usec
 DE 17.09 usec
 TE 296.9 K
 D1 1.00000000 sec
 TD0 1
 SF01 400.3124719 MHz
 NUC1 1H
 P0 4.67 usec
 P1 14.00 usec
 PLW1 11.28999996 W

F2 - Processing parameters
 SI 65536
 SF 400.3100000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

¹H NMR spectrum of 4-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-N-(4-methoxyphenyl)-3-oxo butanamide **3i (BOK-9)**.

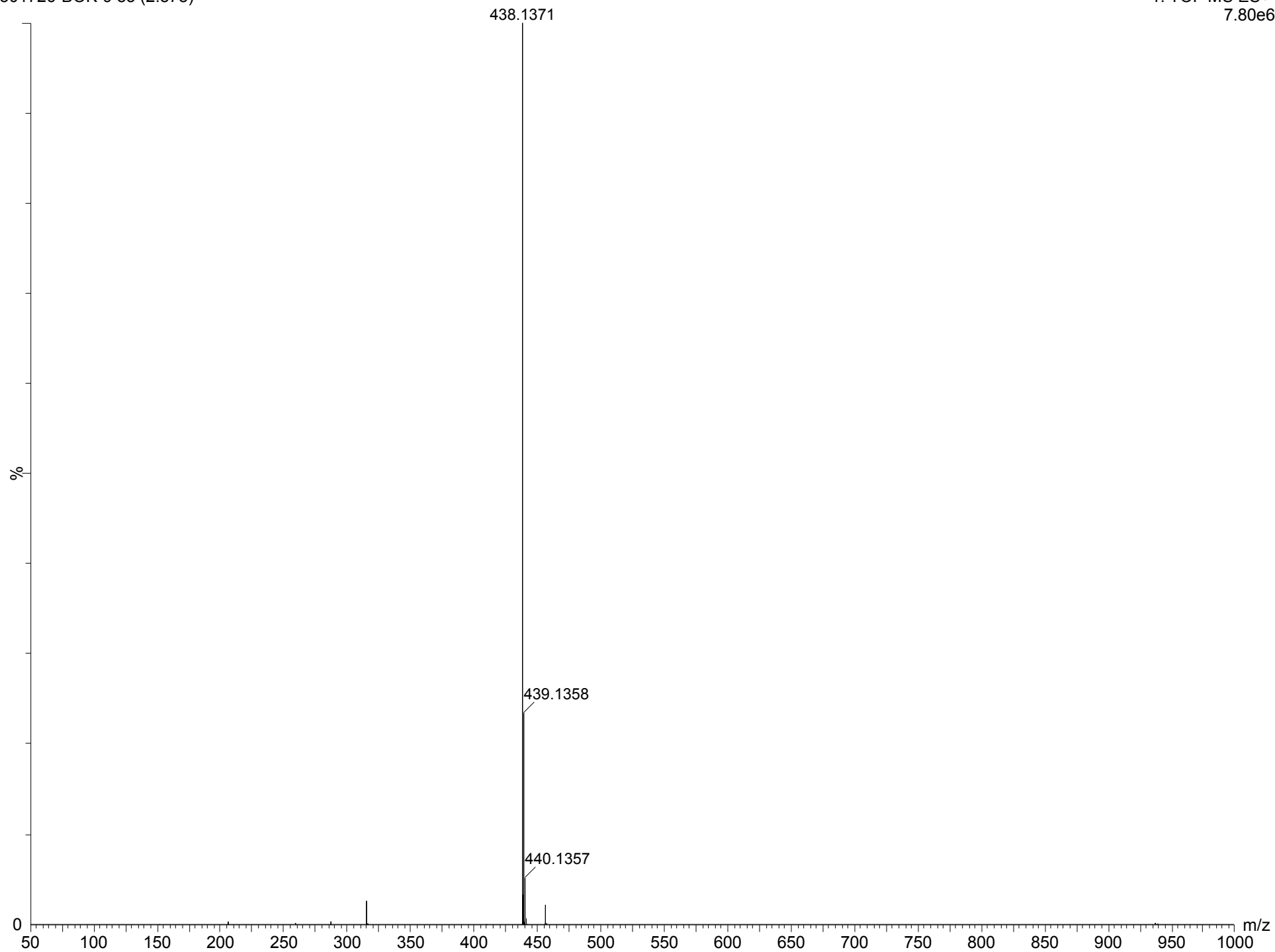
BOK-9
¹³C-NMR in DMSO



Current Data Parameters
 NAME 23000782-BO-4OCH3
 EXPNO 2
 PROCNO 1

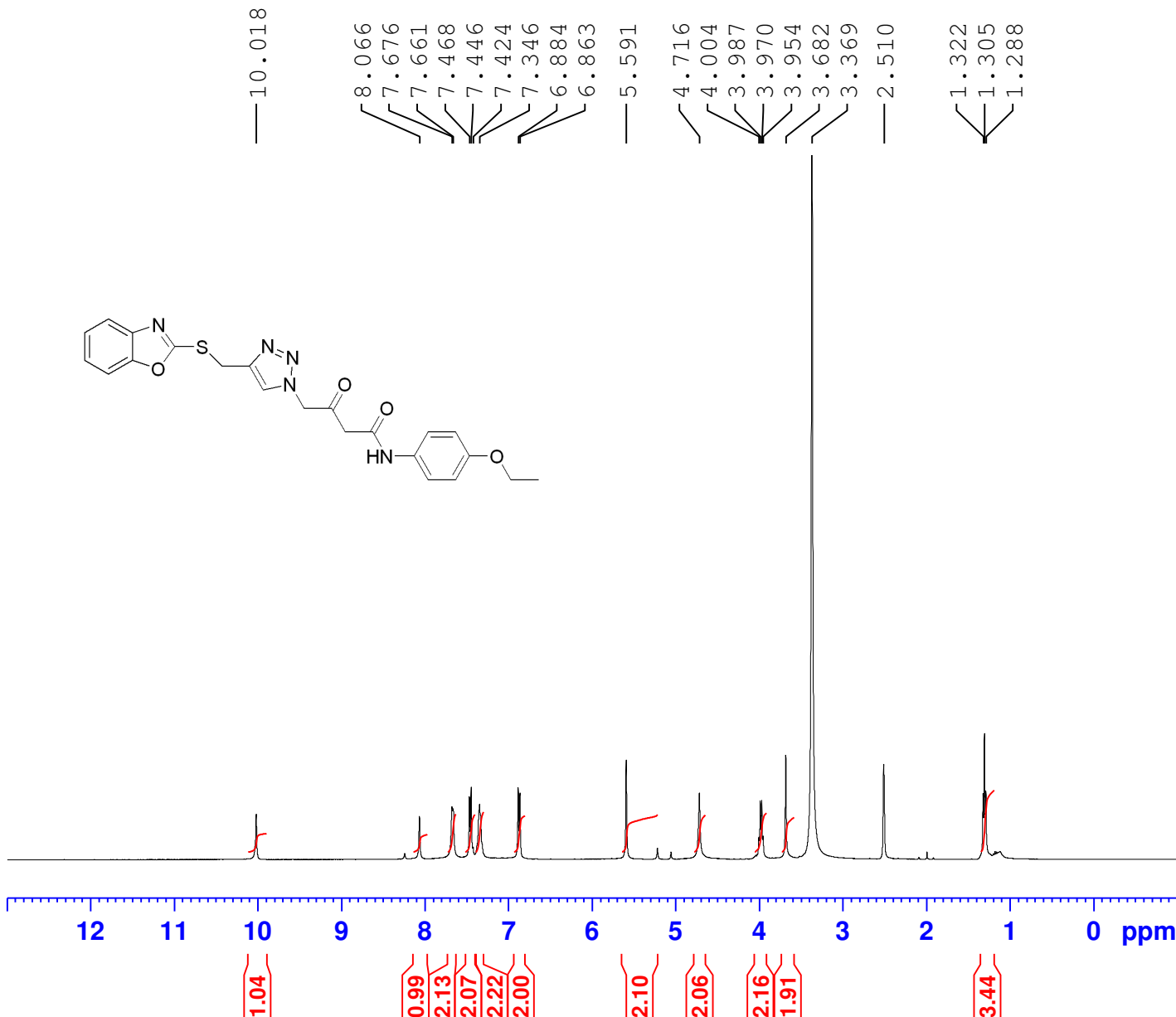
F2 - Acquisition Parameters
 Date_ 20230801
 Time 6.40 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 297.9 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



COMPOUND 3j (BOK-10) SPECTRAL DATA

BOK-10
¹H-NMR in DMSO

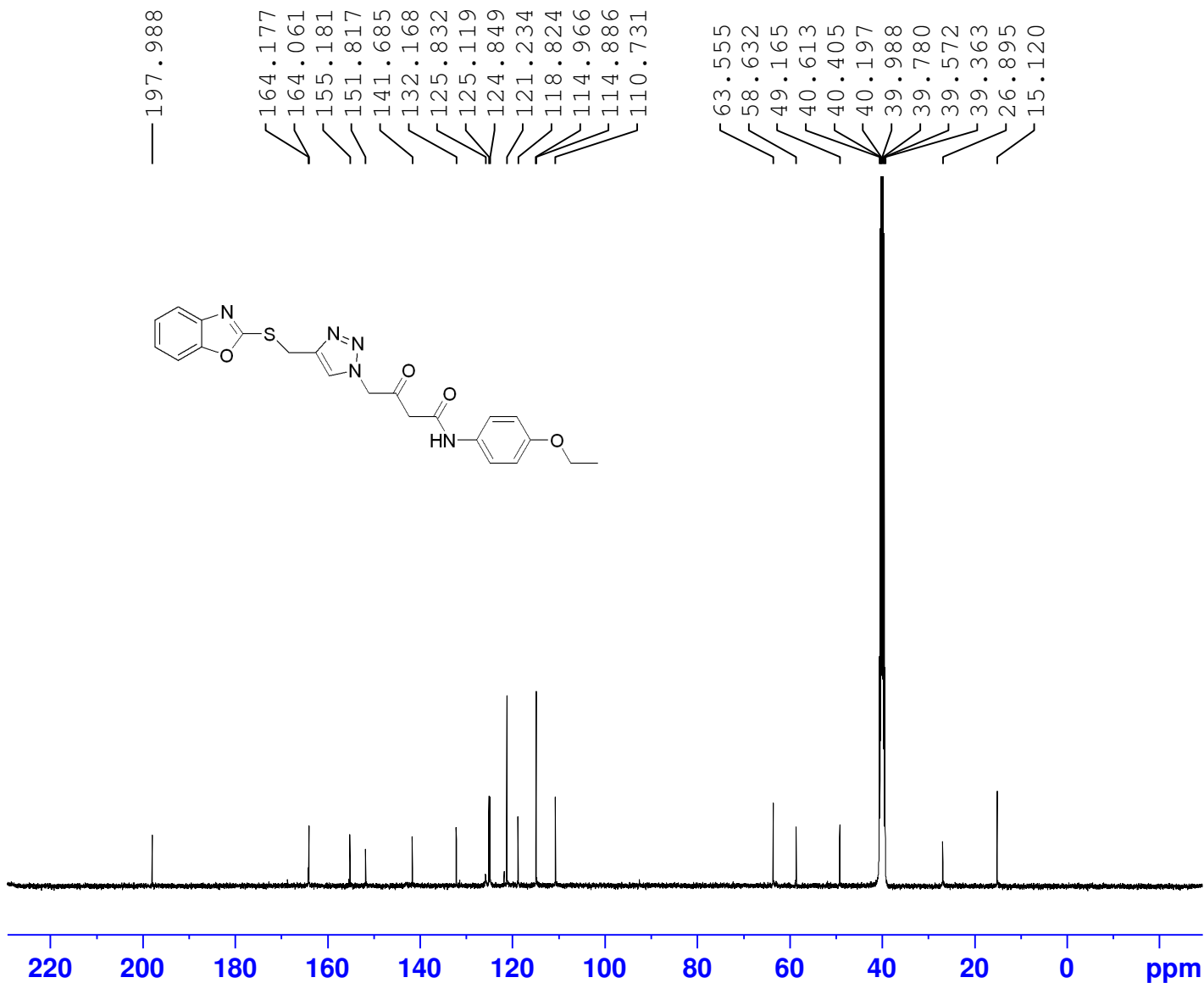


Current Data Parameters
 NAME 23000512-Bo-4EO
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230520
 Time 10.54 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 32
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.244532 Hz
 AQ 4.0894465 sec
 RG 32.13
 DW 62.400 usec
 DE 17.09 usec
 TE 297.5 K
 D1 1.00000000 sec
 TD0 1
 SFO1 400.3124719 MHz
 NUC1 1H
 P0 4.67 usec
 P1 14.00 usec
 PLW1 11.28999996 W

F2 - Processing parameters
 SI 65536
 SF 400.3100000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

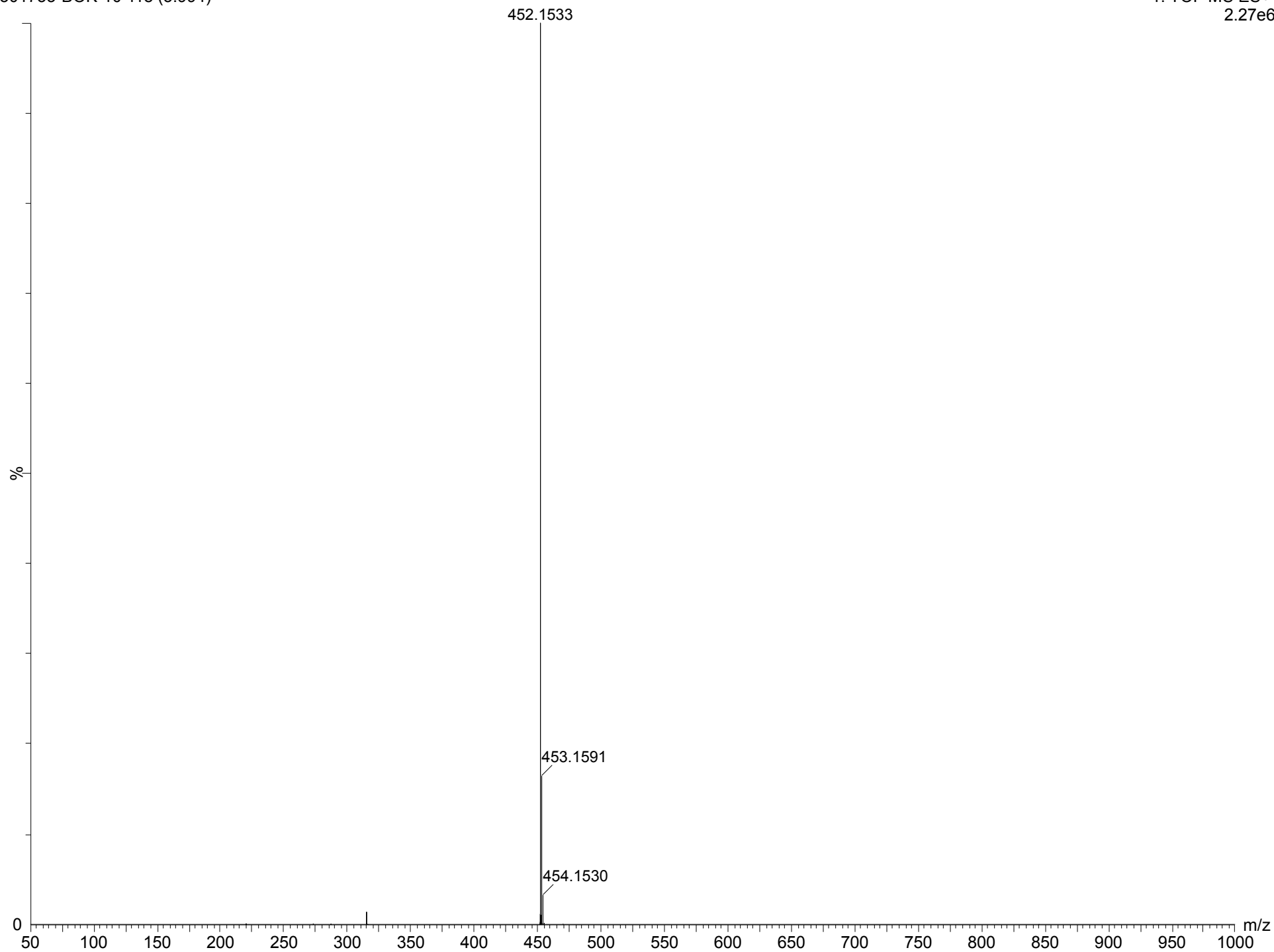
BOK-10
¹³C-NMR in DMSO



Current Data Parameters
 NAME 23000512-Bo-4EO
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230522
 Time 10.24 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 4
 SWH 26041.666 Hz
 FIDRES 0.794729 Hz
 AQ 1.2582912 sec
 RG 202.84
 DW 19.200 usec
 DE 6.50 usec
 TE 298.8 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.0260098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

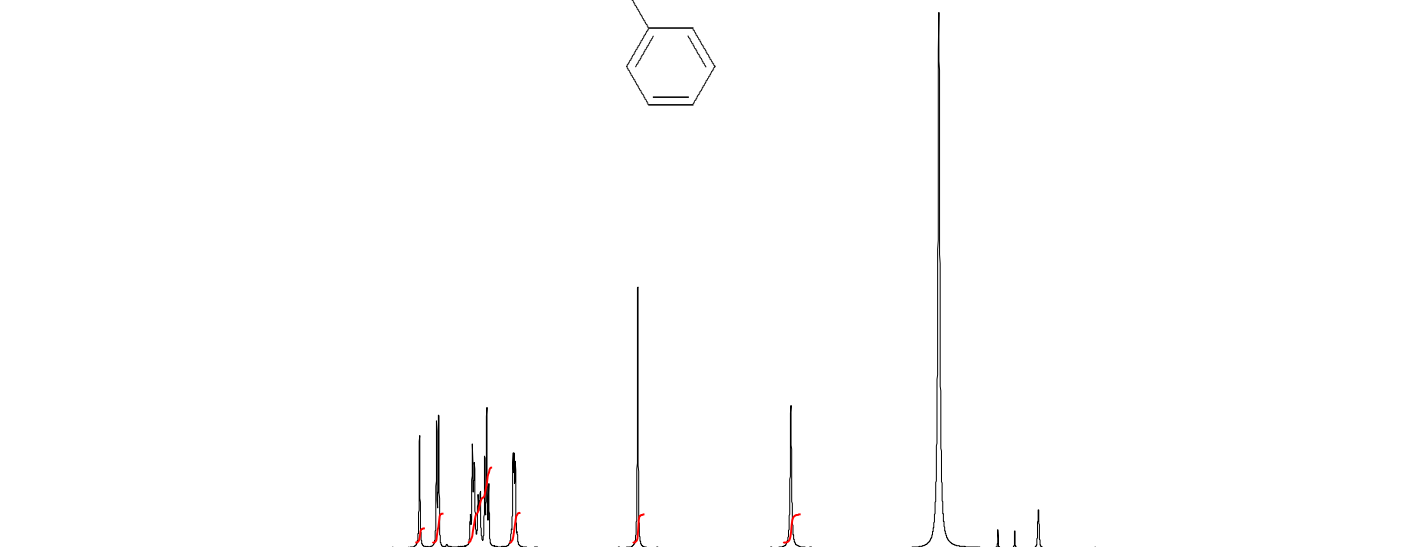
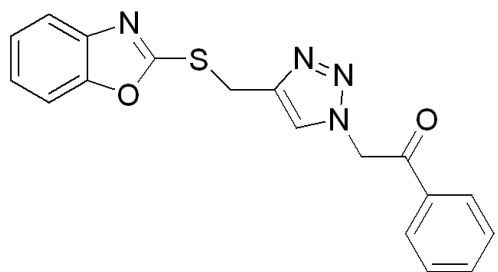


COMPOUND 3k (BOP-1) SPECTRAL DATA

BOP-1
¹H-NMR in DMSO



8.212
 8.055
 8.036
 7.745
 7.726
 7.708
 7.674
 7.659
 7.652
 7.612
 7.593
 7.574
 7.350
 7.341
 7.331
 6.202
 — 4.791
 — 3.427
 — 2.883
 — 2.728
 — 2.510



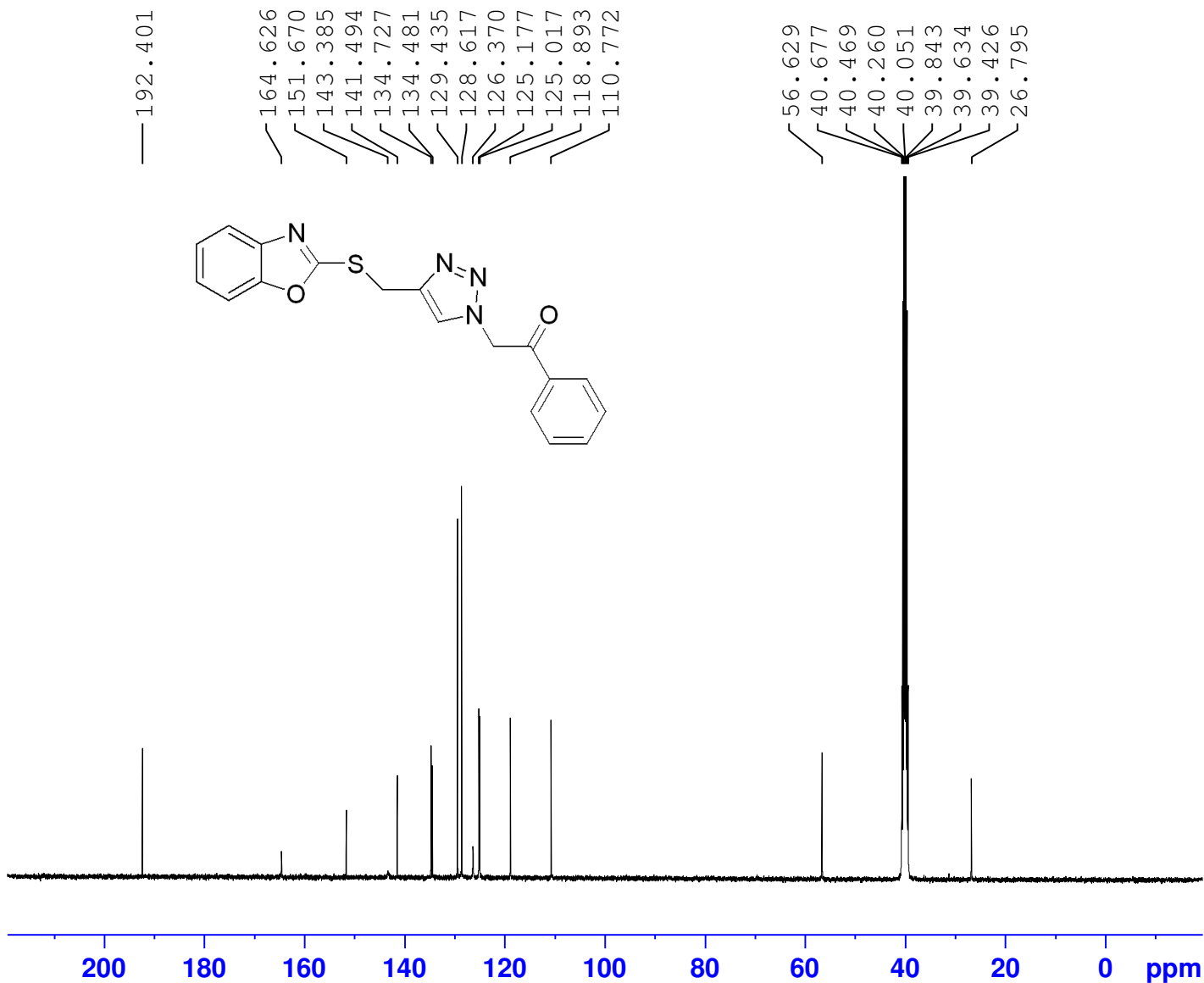
Current Data Parameters
 NAME 23000787-Ph-BO
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230801
 Time 9.19 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.244532 Hz
 AQ 4.0894465 sec
 RG 80.45
 DW 62.400 usec
 DE 17.09 usec
 TE 297.0 K
 D1 1.00000000 sec
 TD0 1
 SFO1 400.3124719 MHz
 NUC1 1H
 P0 4.67 usec
 P1 14.00 usec
 PLW1 11.28999996 W

F2 - Processing parameters
 SI 65536
 SF 400.3100000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

¹H NMR spectrum of 2-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-1-phenylethan-1-one 3k (BOP-1).

BOP-1
¹³C-NMR in DMSO



Current Data Parameters
 NAME 23000787-Ph-BO
 EXPNO 2
 PROCNO 1

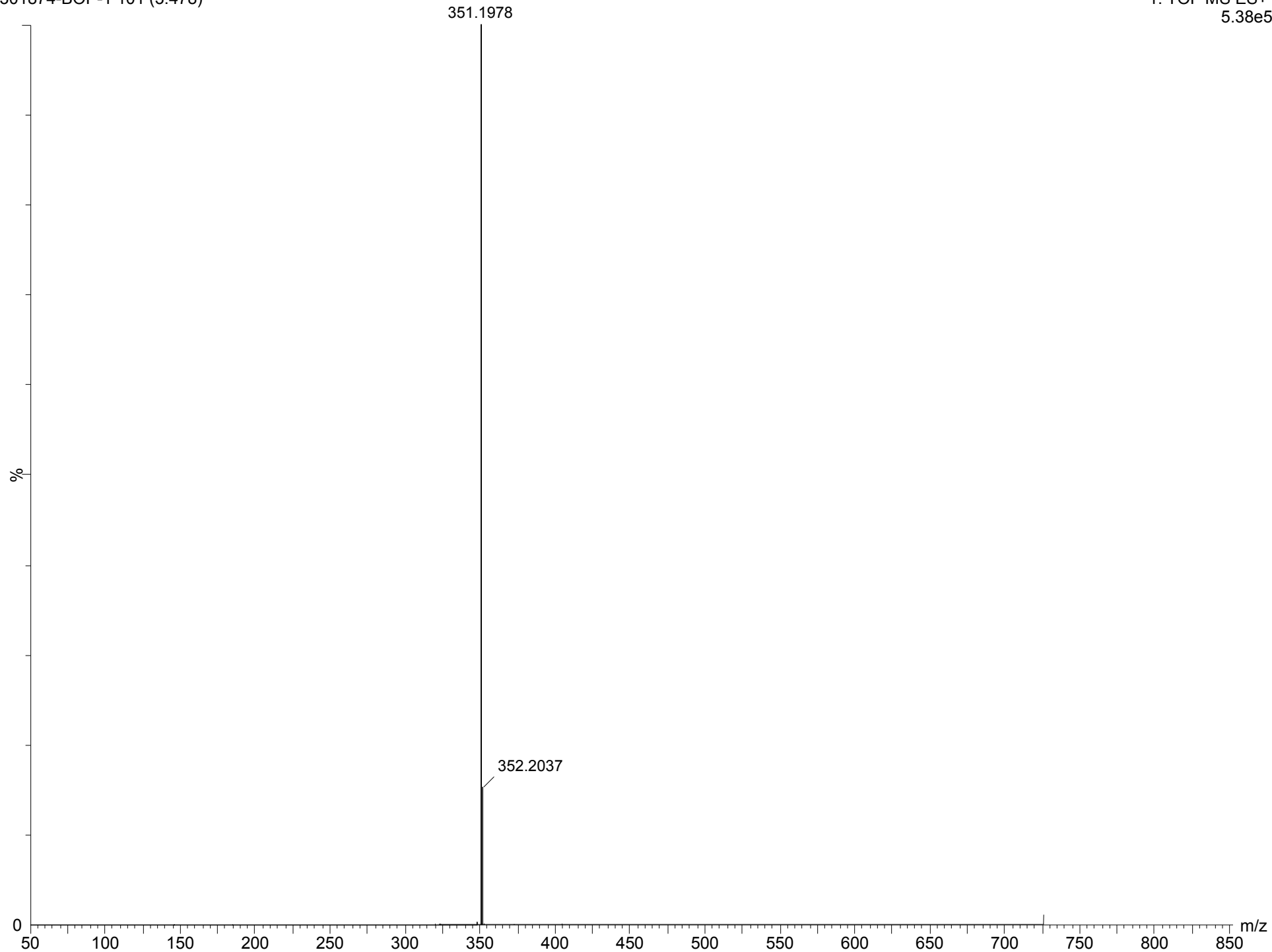
F2 - Acquisition Parameters
 Date_ 20230801
 Time 10.02 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 297.2 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

¹³C NMR spectrum of 2-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-1-phenylethan-1-one **3k (BOP-1)**.

2301874-BOP-1 101 (3.478)

1: TOF MS ES+
5.38e5



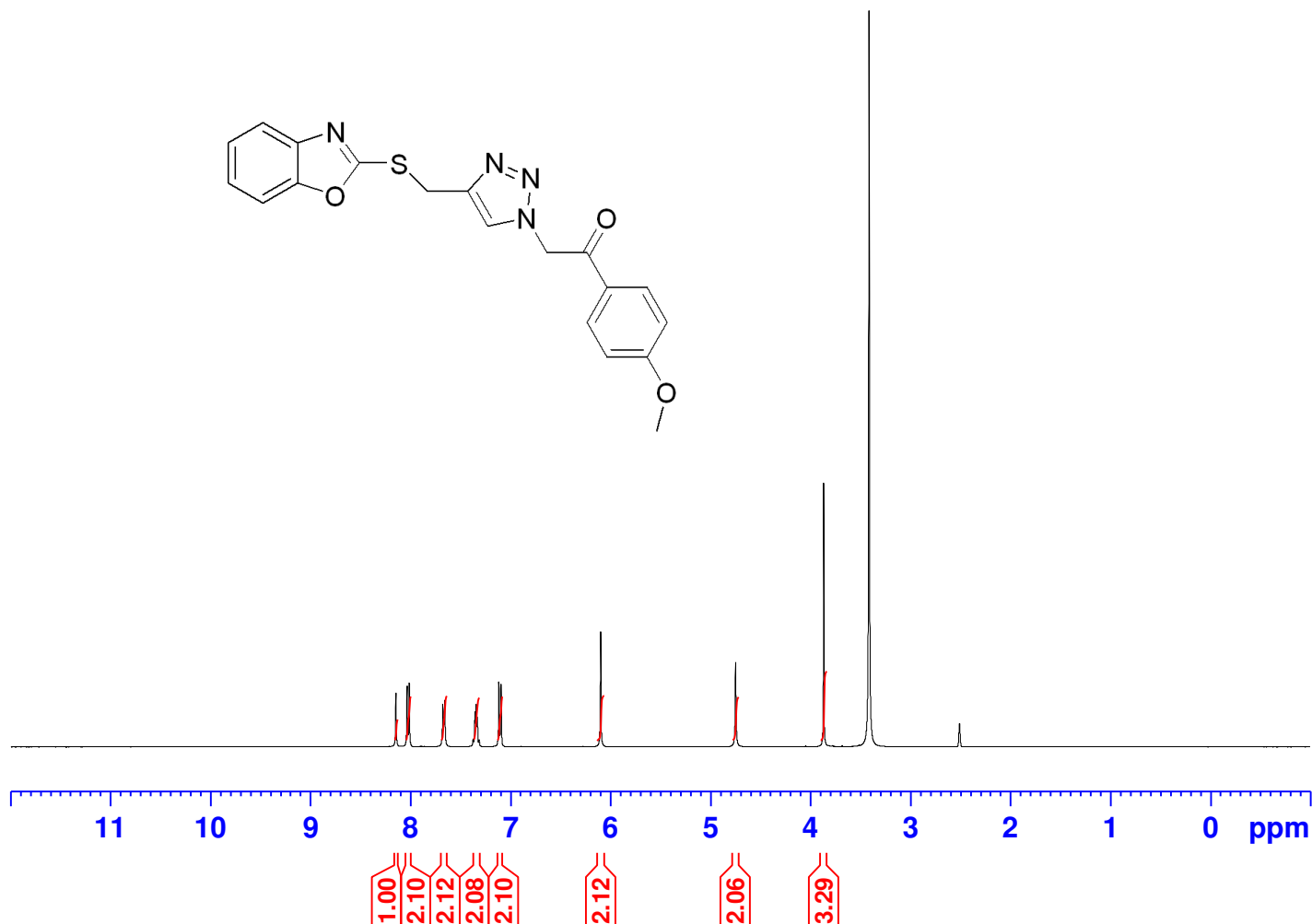
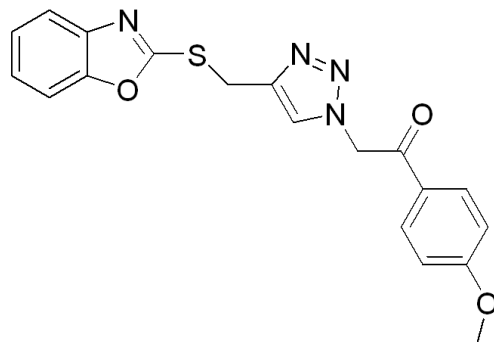
Mass spectrum of 2-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-1-phenylethan-1-one **3k (BOP-1)**.

COMPOUND 3I (BOP-2) SPECTRAL DATA

BOP-2
¹H-NMR in DMSO



8.146
 8.035
 8.013
 7.679
 7.661
 7.656
 7.359
 7.353
 7.345
 7.335
 7.330
 7.117
 7.095
 6.099
 — 4.749
 — 3.868
 — 3.415
 2.514
 2.510
 2.505

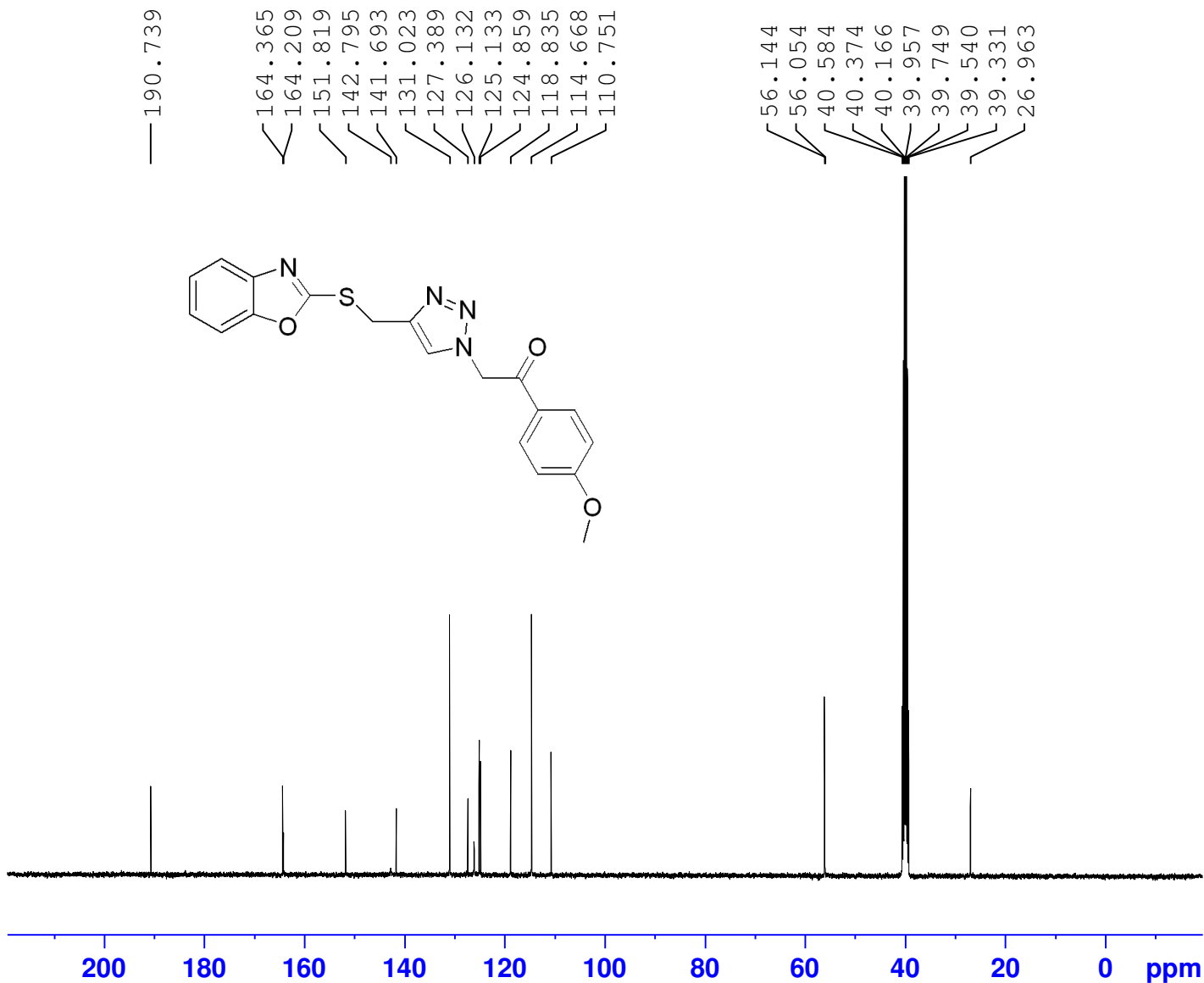


Current Data Parameters
 NAME 23000789-4OCH3-PhBO
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230801
 Time 10.32 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.244532 Hz
 AQ 4.0894465 sec
 RG 89.93
 DW 62.400 usec
 DE 17.09 usec
 TE 297.2 K
 D1 1.00000000 sec
 TD0 1
 SFO1 400.3124719 MHz
 NUC1 1H
 P0 4.67 usec
 P1 14.00 usec
 PLW1 11.28999996 W

F2 - Processing parameters
 SI 65536
 SF 400.3100000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

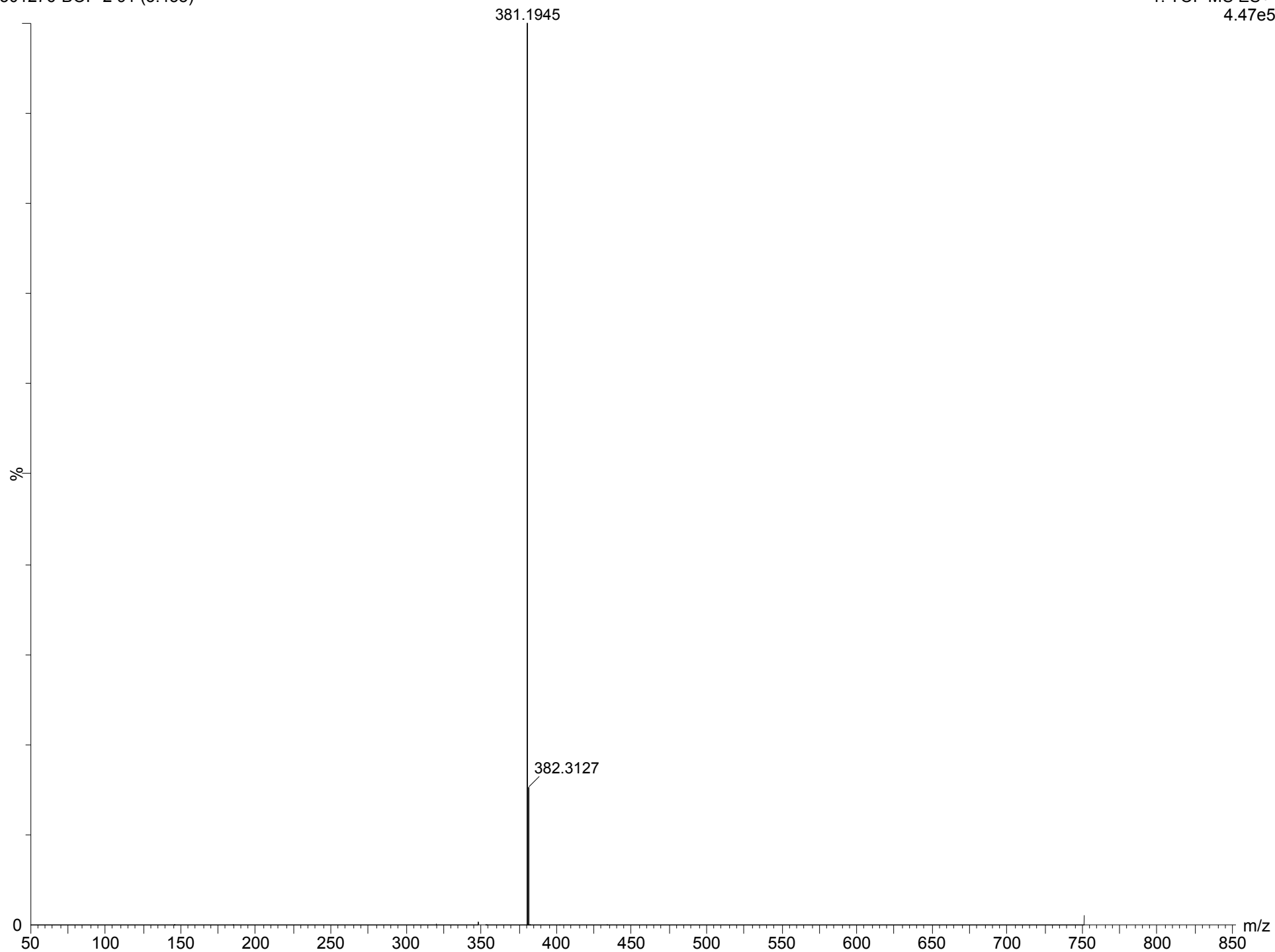
BOP-2
¹³C-NMR in DMSO



Current Data Parameters
 NAME 23000789-4OCH3-PhBO
 EXPNO 2
 PROCNO 1

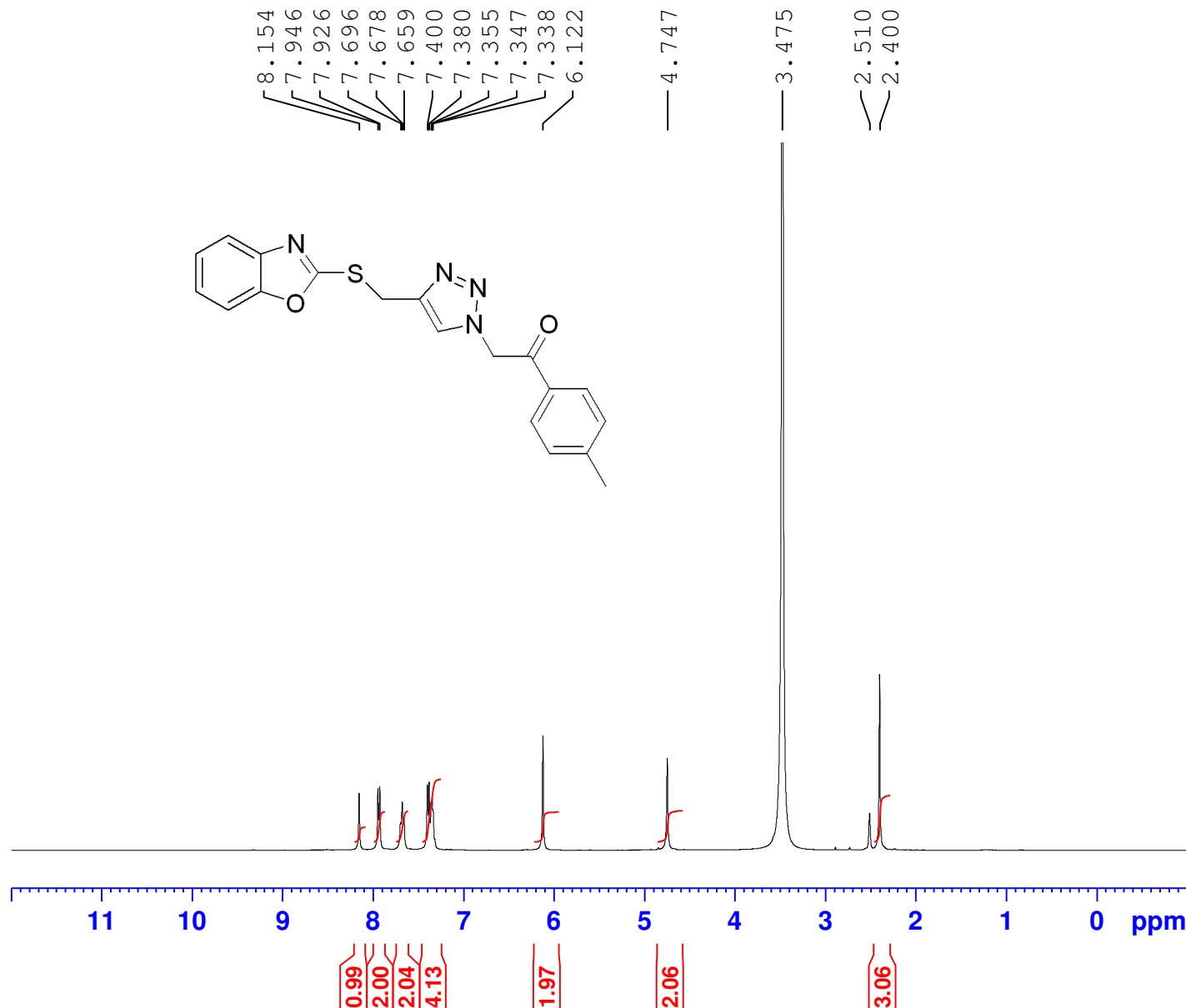
F2 - Acquisition Parameters
 Date_ 20230801
 Time 11.16 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 298.5 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



COMPOUND 3m (BOP-3) SPECTRAL DATA

BOP-3
¹H-NMR in DMSO



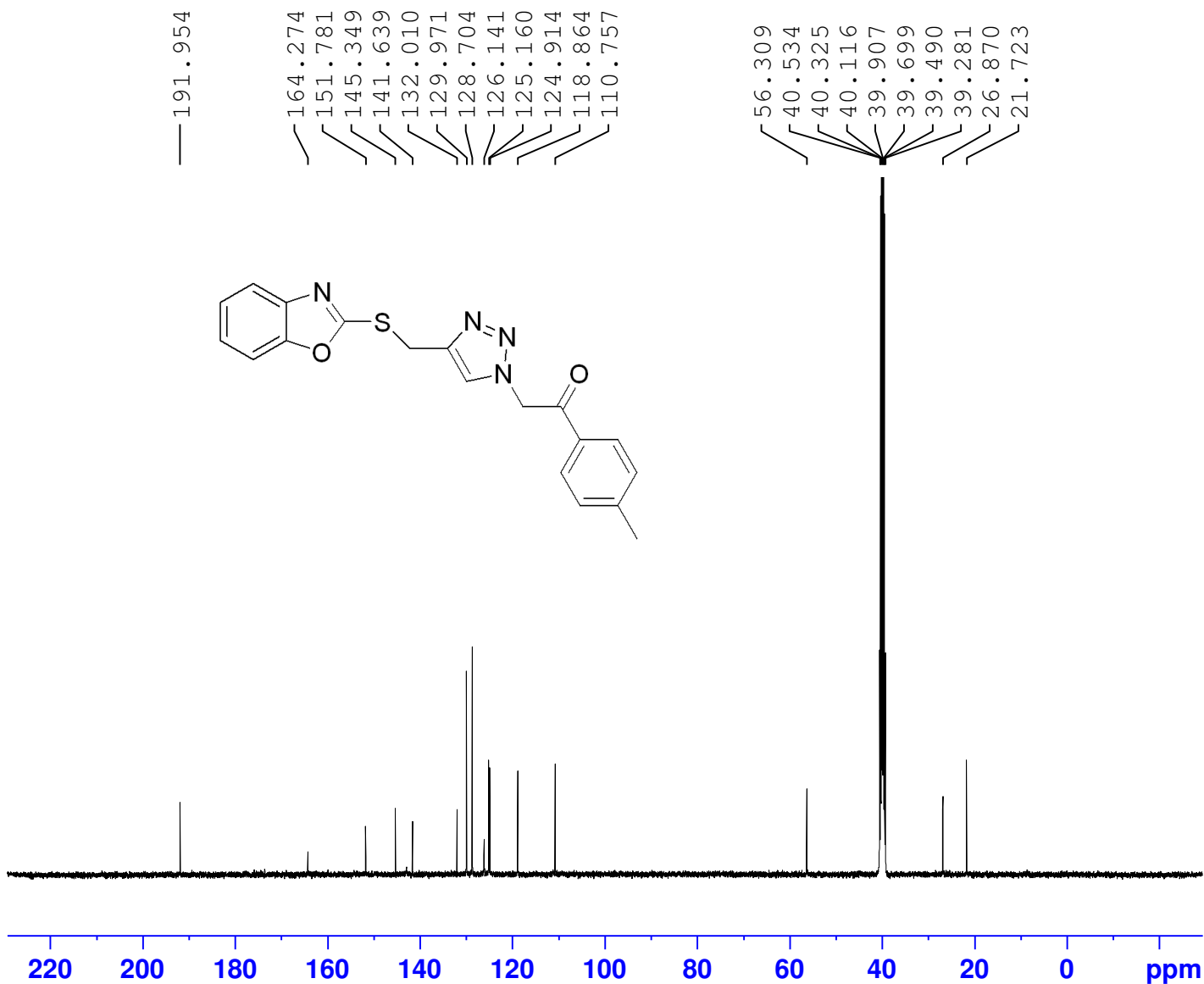
Current Data Parameters
 NAME 23000622-4CH3-PhBo
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230628
 Time 11.27 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 32
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.244532 Hz
 AQ 4.0894465 sec
 RG 32.13
 DW 62.400 usec
 DE 17.09 usec
 TE 297.5 K
 D1 1.00000000 sec
 TD0 1
 SFO1 400.3124719 MHz
 NUC1 1H
 P0 4.67 usec
 P1 14.00 usec
 PLW1 11.28999996 W

F2 - Processing parameters
 SI 65536
 SF 400.3100000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

¹H NMR spectrum of 2-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-1-(p-tolyl)ethan-1-one 3m (BOP-3).

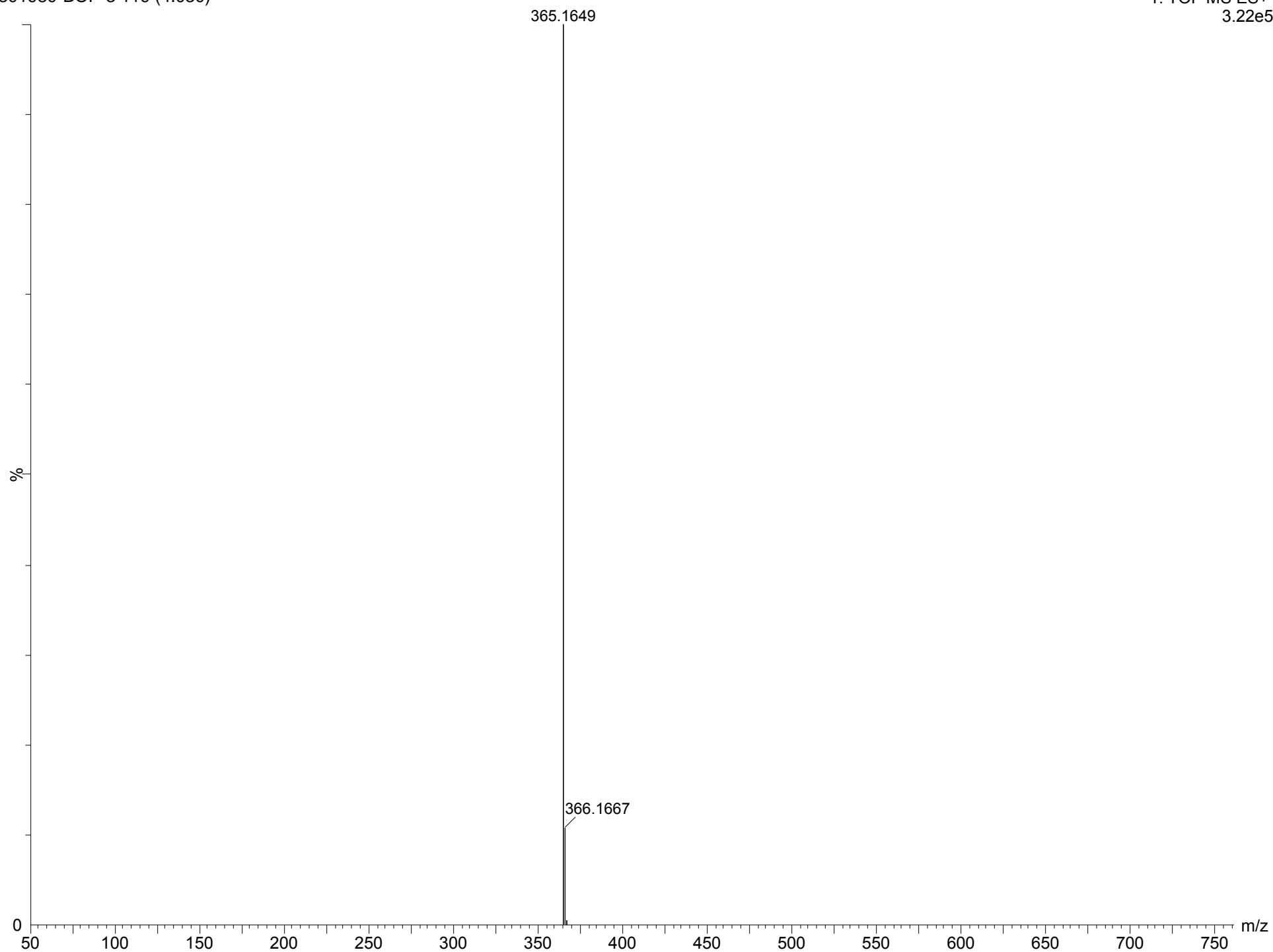
BOP-3
¹³C-NMR in DMSO



Current Data Parameters
 NAME 23000622-4CH3-PhBo
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230628
 Time 12.11 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1128
 DS 4
 SWH 26041.666 Hz
 FIDRES 0.794729 Hz
 AQ 1.2582912 sec
 RG 202.84
 DW 19.200 usec
 DE 6.50 usec
 TE 298.6 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

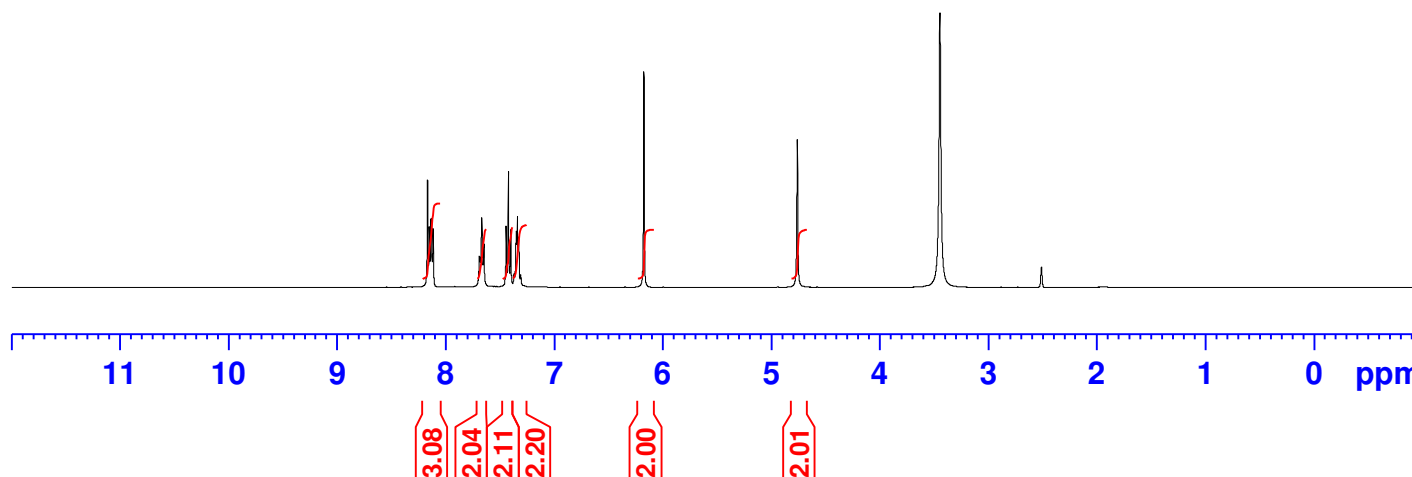
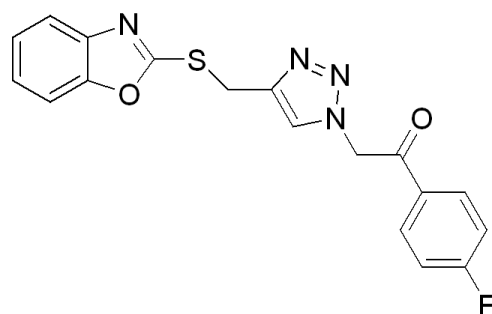


COMPOUND 3n (BOP-4) SPECTRAL DATA

BOP-4
¹H-NMR in DMSO



8.166
 8.150
 8.137
 8.129
 8.115
 7.689
 7.668
 7.650
 7.645
 7.443
 7.421
 7.399
 7.347
 7.338
 7.328
 6.173
 — 4.759
 — 3.445
 2.513
 2.509
 2.505



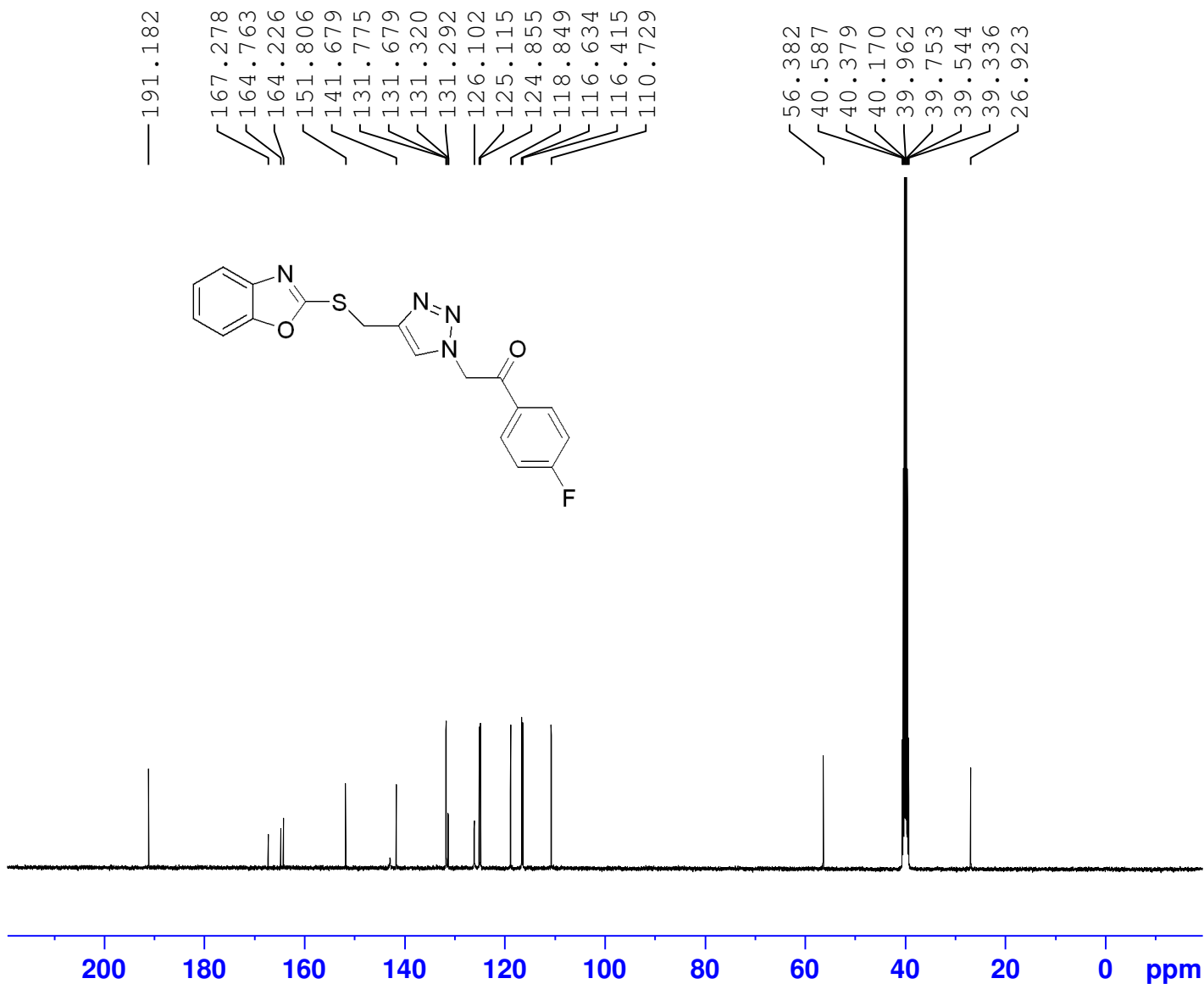
Current Data Parameters
 NAME 23000788-4F-Ph-BO
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230801
 Time 10.06 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.244532 Hz
 AQ 4.0894465 sec
 RG 73.11
 DW 62.400 usec
 DE 17.09 usec
 TE 297.2 K
 D1 1.00000000 sec
 TD0 1
 SFO1 400.3124719 MHz
 NUC1 1H
 P0 4.67 usec
 P1 14.00 usec
 PLW1 11.28999996 W

F2 - Processing parameters
 SI 65536
 SF 400.3100000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

¹H NMR spectrum of 2-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-1-(4-fluorophenyl)ethan-1-one **3n (BOP-4)**.

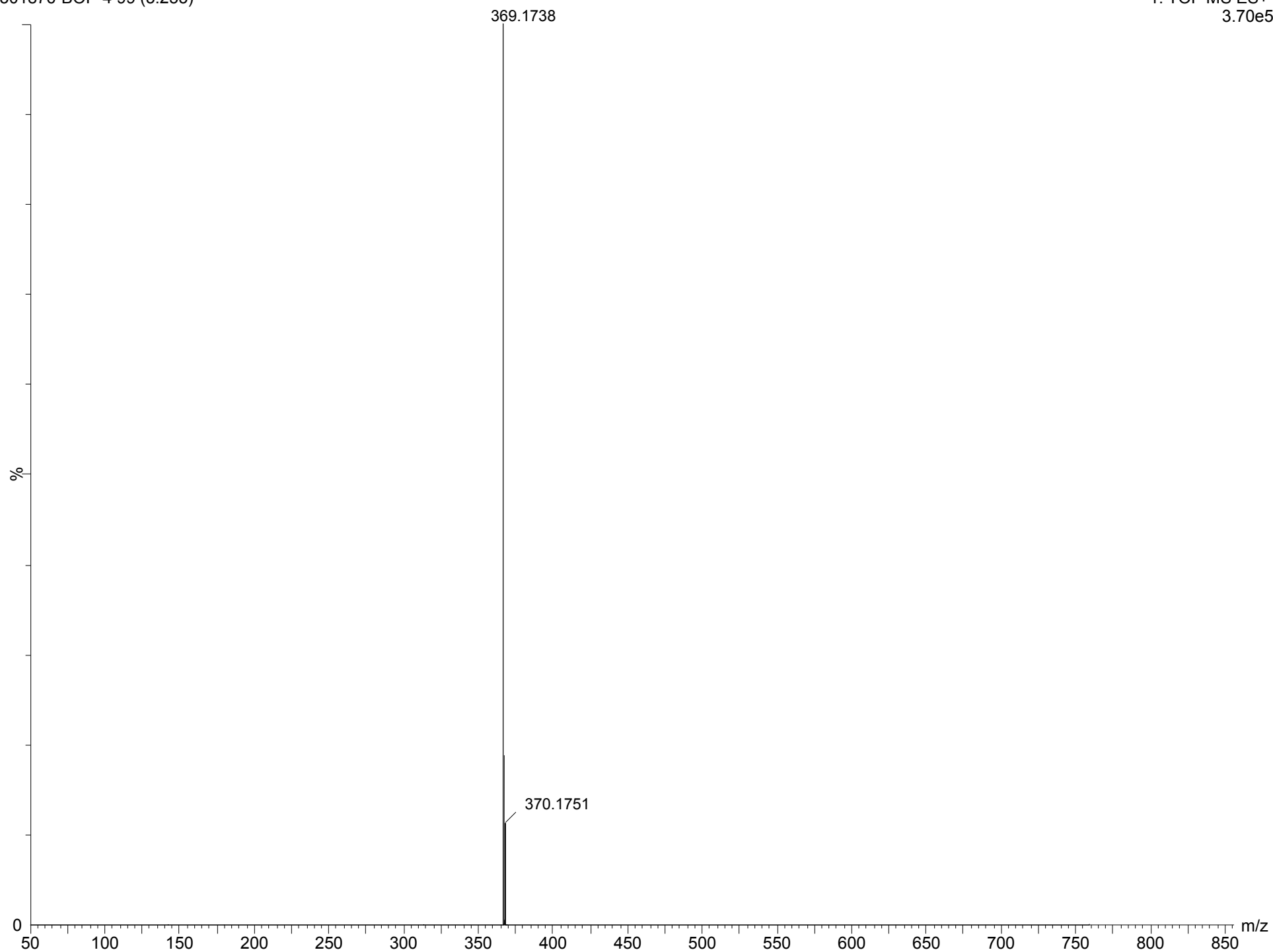
BOP-4
¹³C-NMR in DMSO



Current Data Parameters
 NAME 23000788-4F-Ph-BO
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230801
 Time 10.28 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 512
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 1.3631488 sec
 RG 2050
 DW 20.800 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
 CPDPRG[2] waltz65
 PCPD2 90.00 usec
 PLW2 11.28999996 W
 PLW12 0.27318001 W
 PLW13 0.13741000 W

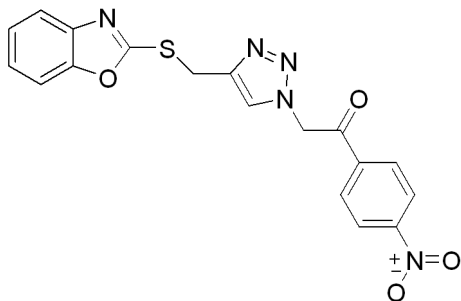
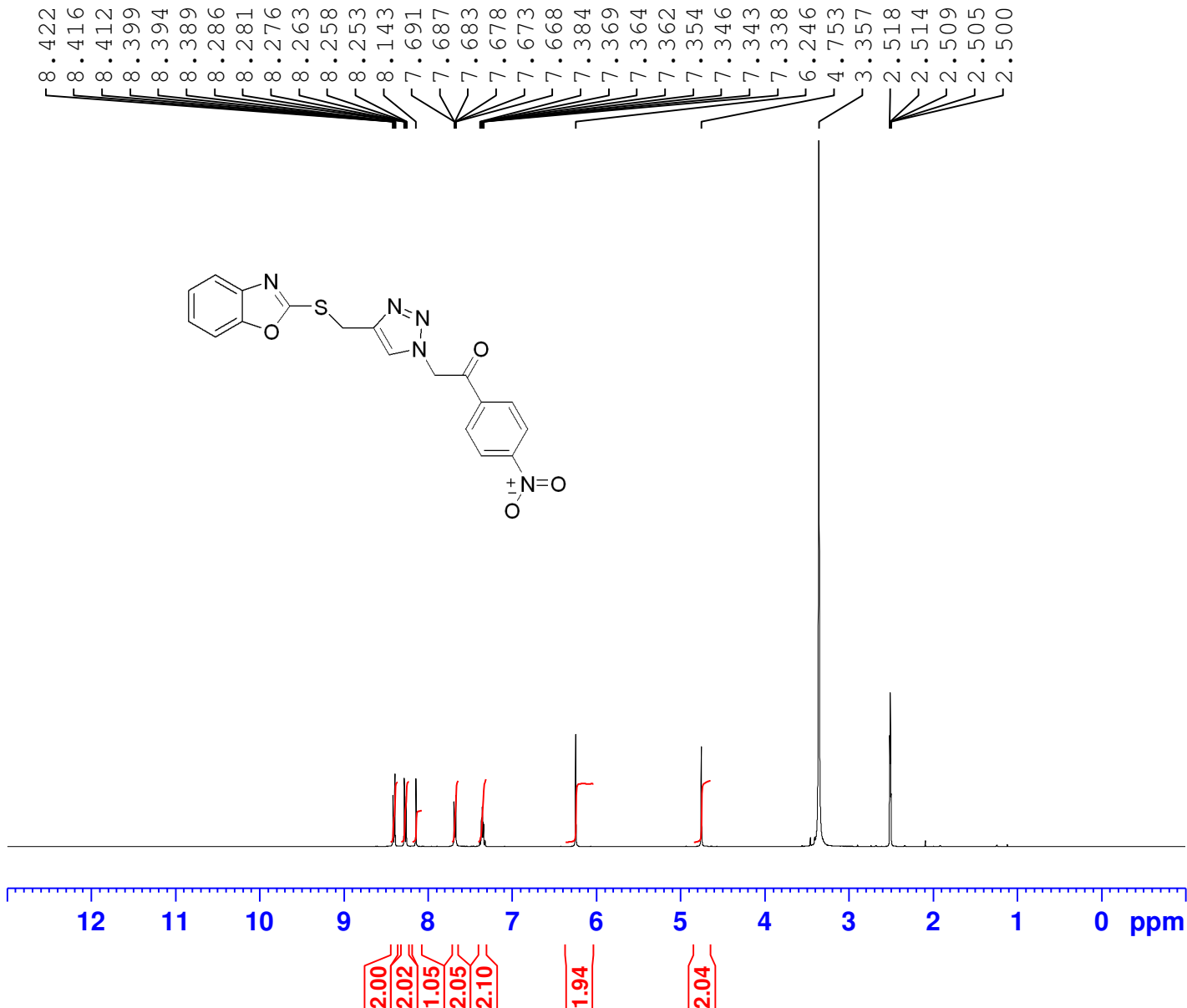
F2 - Processing parameters
 SI 32768
 SF 100.6580296 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Mass spectrum of 2-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-1-(4-fluorophenyl)ethan-1-one **3n (BOP-4)**.

COMPOUND 3o (BOP-5) SPECTRAL DATA

BOP-5
¹H-NMR in DMSO



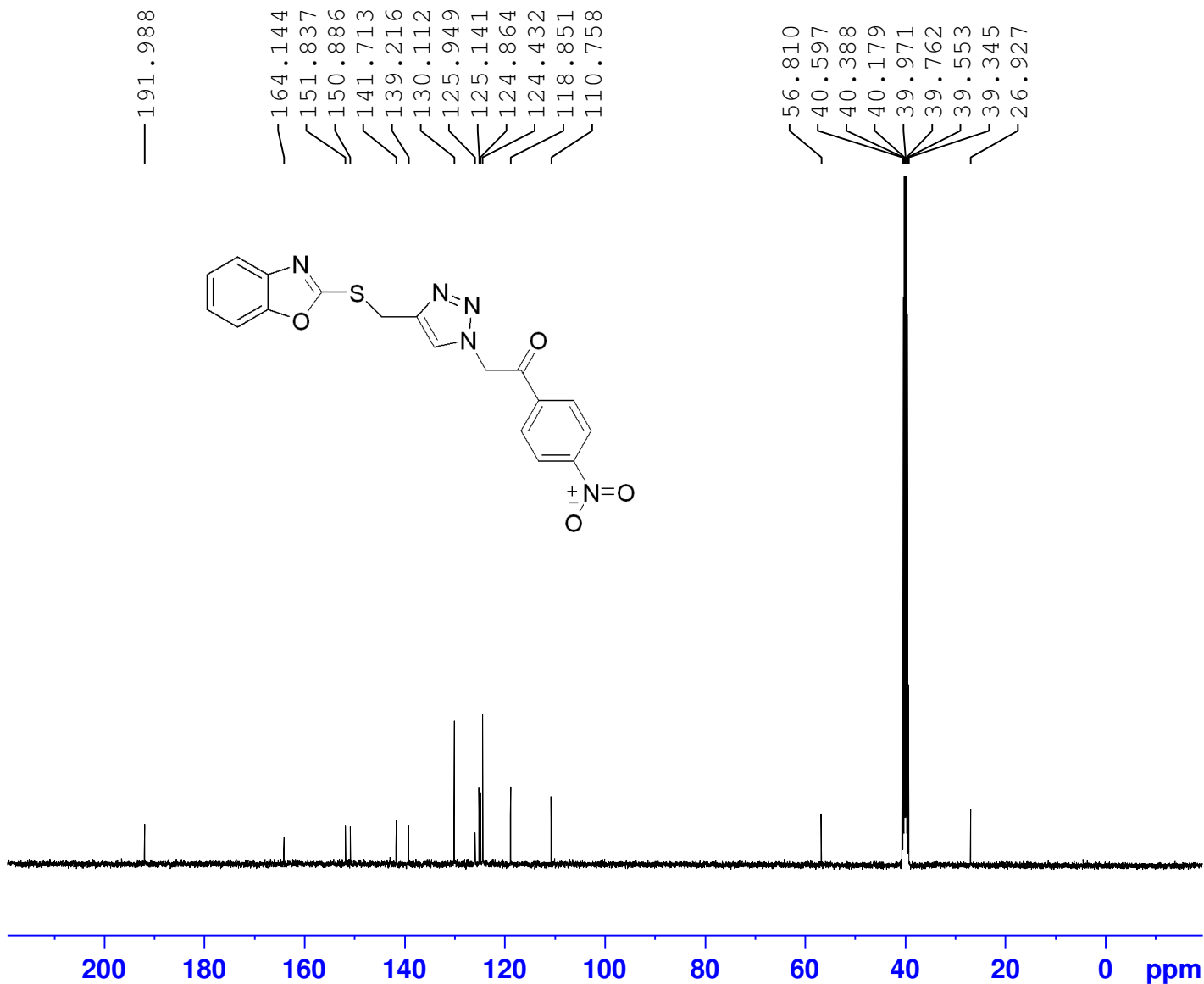
Current Data Parameters
 NAME 23000514-4No2-PhBO
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20230520
 Time 11.02 h
 INSTRUM spect
 PROBHD Z108618_0984 (
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 32
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.244532 Hz
 AQ 4.0894465 sec
 RG 32.13
 DW 62.400 usec
 DE 17.09 usec
 TE 297.5 K
 D1 1.00000000 sec
 TD0 1
 SFO1 400.3124719 MHz
 NUC1 1H
 P0 4.67 usec
 P1 14.00 usec
 PLW1 11.28999996 W

F2 - Processing parameters
 SI 65536
 SF 400.3100000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

¹H NMR spectrum of 2-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-1-(4-nitrophenyl)ethan-1-one **3o (BOP-5)**.

BOP-5
¹³C-NMR in DMSO

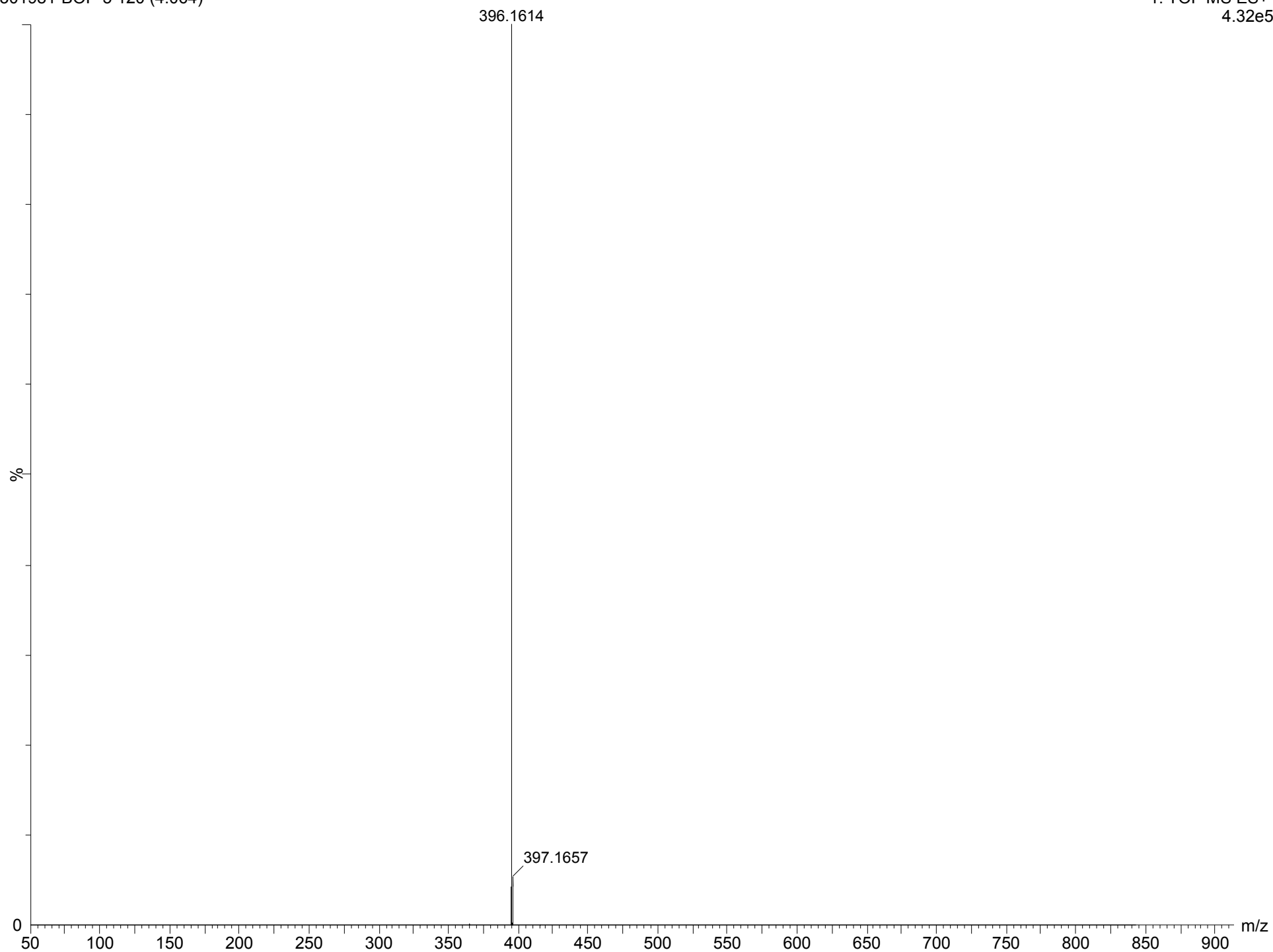


Current Data Parameters
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 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
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 Time 12.42 h
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 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 512
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.733596 Hz
 AQ 1.3631488 sec
 RG 202.84
 DW 20.800 usec
 DE 6.50 usec
 TE 297.6 K
 D1 1.00000000 sec
 D11 0.03000000 sec
 TD0 1
 SFO1 100.6680954 MHz
 NUC1 13C
 P0 3.33 usec
 P1 10.00 usec
 PLW1 51.02600098 W
 SFO2 400.3116012 MHz
 NUC2 1H
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 PLW13 0.13741000 W

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

¹³C NMR spectrum of 2-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-1-(4-nitrophenyl)ethan-1-one **3o** (BOP-5).



Mass spectrum of 2-(4-((benzo[d]oxazol-2-ylthio)methyl)-1H-1,2,3-triazol-1-yl)-1-(4-nitrophenyl)ethan-1-one **3o (BOP-5)**.

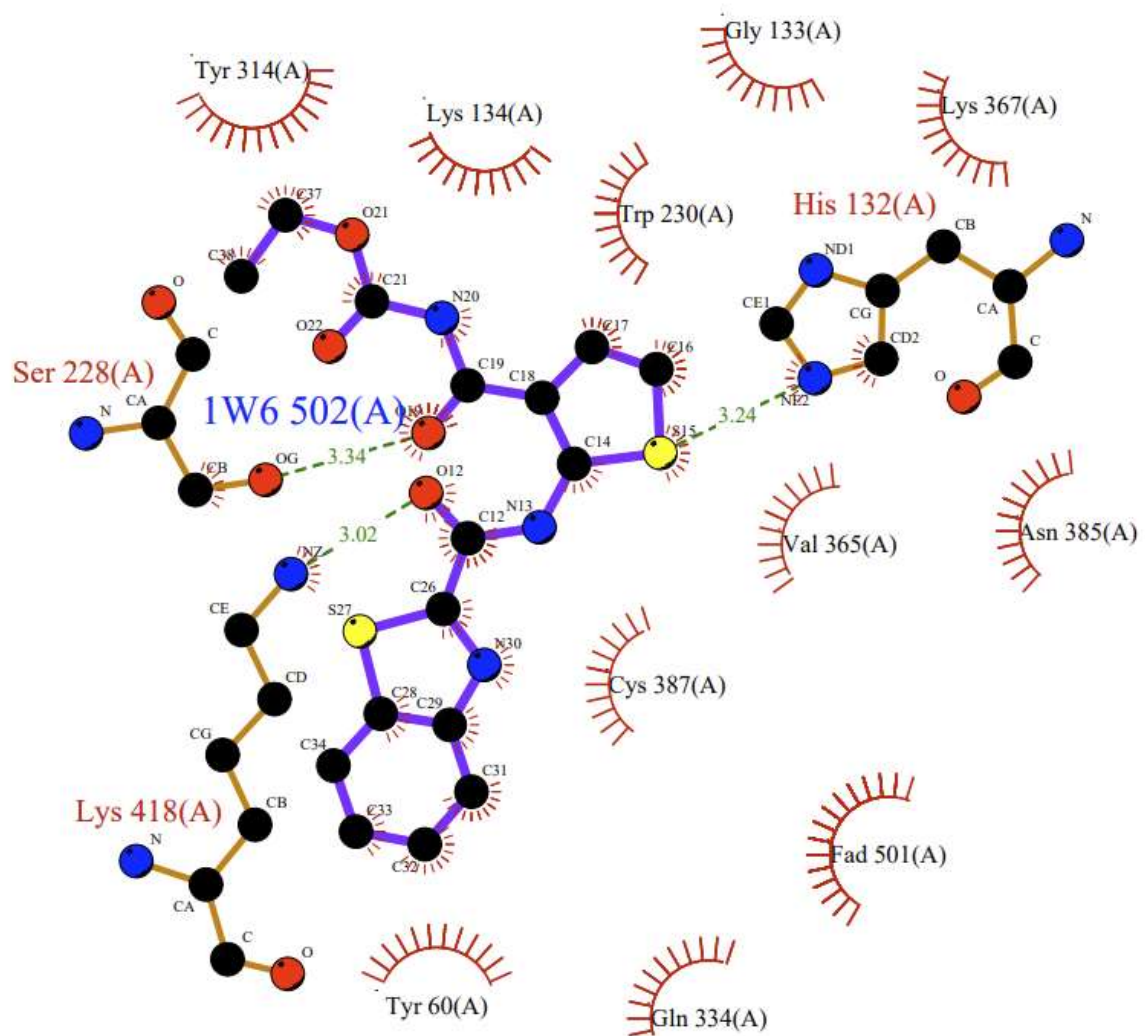


Fig. S46. DprE1 protein binding sheet for TCA-1

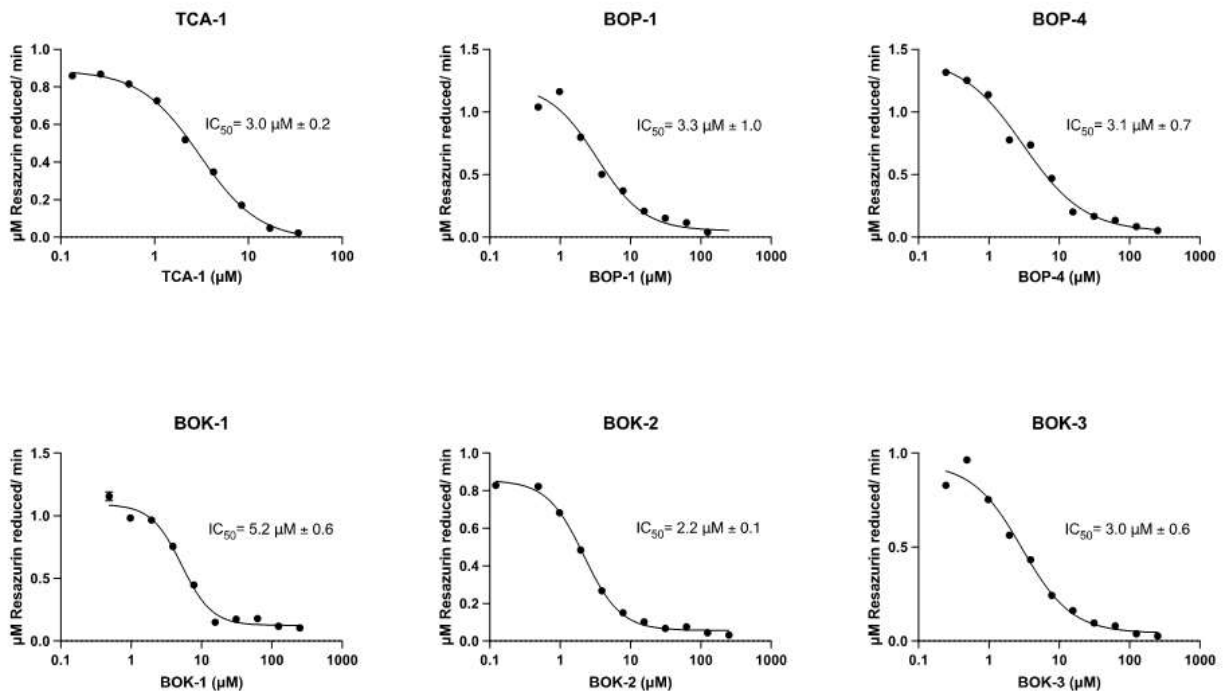


Fig. S47. Concentration response graph of DprE1 inhibition fluorometric assay

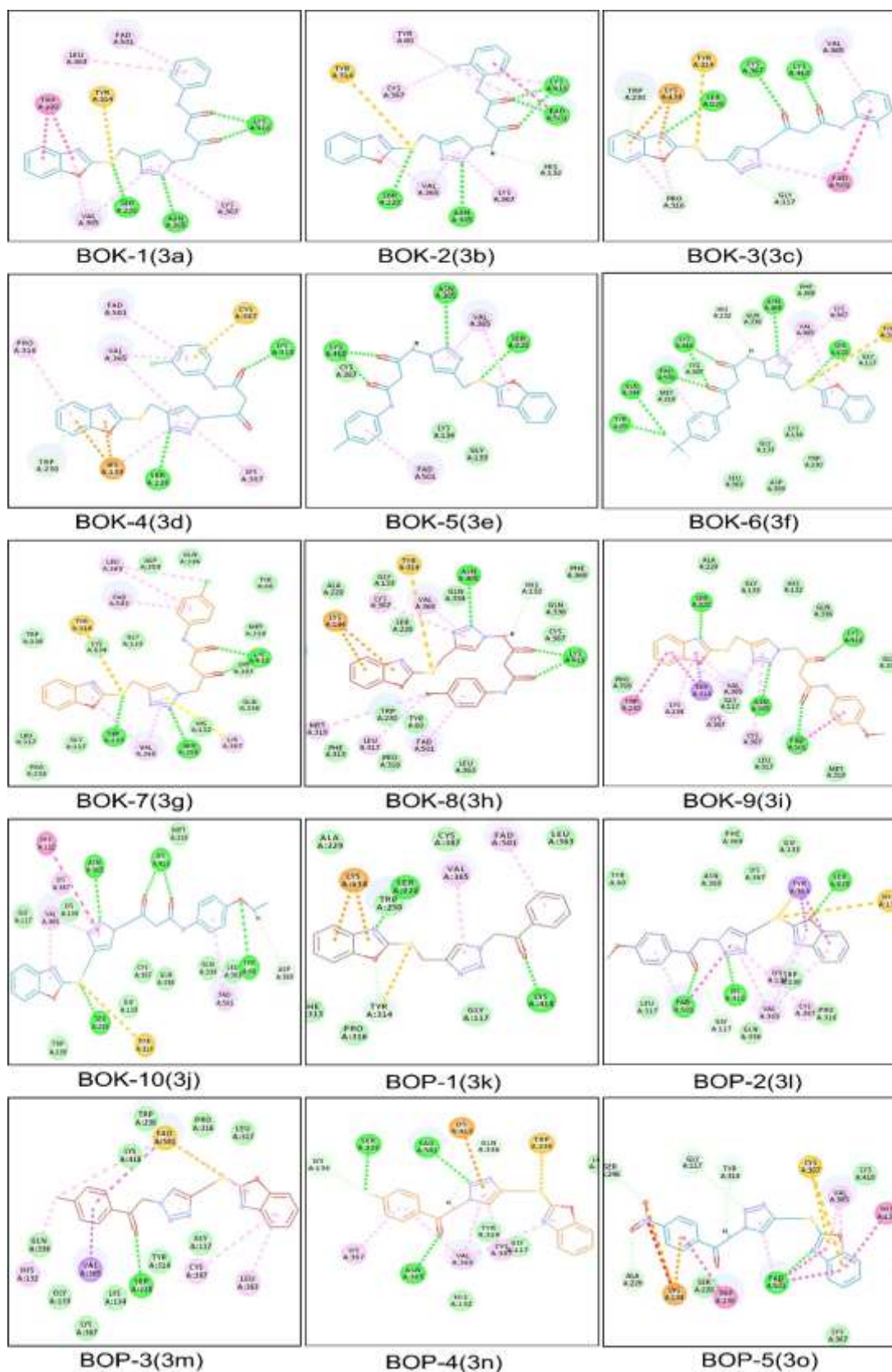


Fig. S48. 2D molecular docking interaction images of the compounds

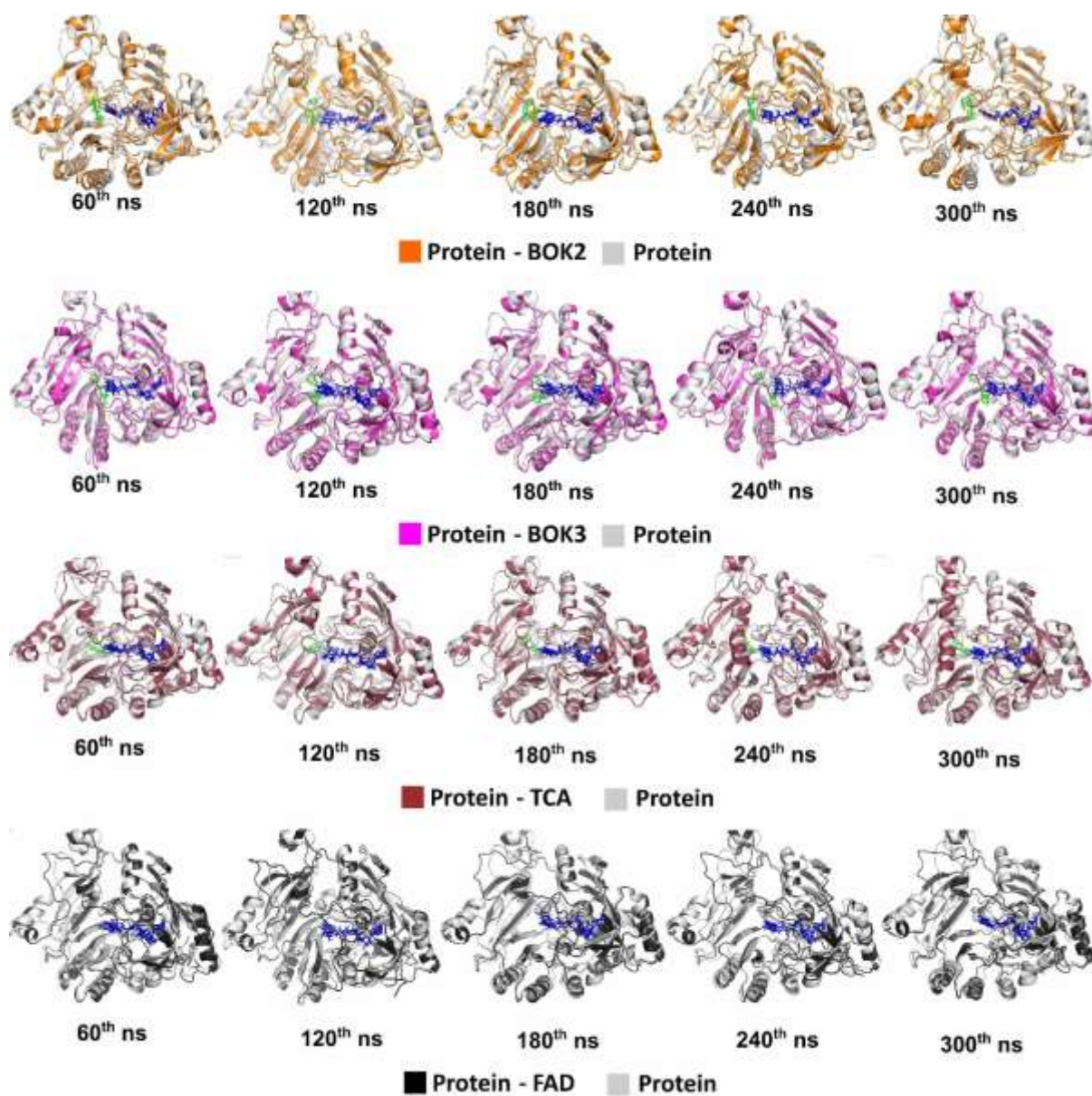


Fig. S49 MD trajectory analysis of superimposed structures of ligand-free protein and ligand-bound protein at different time intervals.

Table. S1. Molecular Docking Scores for Synthesised Compounds with Different substitutions.

S.No.	Compound Code	Substitution	Position of substitution	(-) CDocker Energy	(-) CDocker interaction energy
1.	BOK-4	Chloro	meta	34.54	52.72
2.	BOK-5	Methyl	para	37.58	51.58
3.	BOK-6	TrimethylFluoro	para	37.49	54.15
4.	BOK-7	Chloro	para	36.89	52.36
5.	BOK-8	Bromo	para	35.30	56.69
6.	BOK-9	Methoxy	para	33.81	52.73
7.	BOK-10	Ethoxy	para	36.97	53.26
8.	BOP-2	Methoxy	para	23.74	44.71
9.	BOP-3	Methyl	para	25.71	43.67
10.	BOP-5	Nitro	para	22.28	45.95

Table. S2 Assessment of ADMET Characteristics and Drug-likeness in Newly Synthesised

S.No.	Ligand	MW	RB	HBA	HBD	MR	TPSA	ilogP	ESOL LogS	BBB	log Kp	LV	BS	PAINS alerts
1.	BOK-1	407.45	9	6	1	108.71	128.21	2.07	-4.37	No	-6.44	0	0.55	0
2.	BOK-2	421.47	9	6	1	113.67	128.21	2.7	-4.67	No	-6.26	0	0.55	0
3.	BOK-3	425.44	9	7	1	108.66	128.21	2.54	-4.53	No	-6.47	0	0.55	0
4.	BOK-4	441.89	9	6	1	113.72	128.21	2.11	-4.96	No	-6.33	0	0.55	0
5.	BOK-5	421.47	9	6	1	113.67	128.21	2.32	-4.67	No	-6.06	0	0.55	0
6.	BOK-6	475.44	10	9	1	113.71	128.21	2.34	-5.22	No	-6.60	0	0.55	0
7.	BOK-7	441.89	9	6	1	113.72	128.21	2.28	-4.96	No	-6.33	0	0.55	0
8.	BOK-8	486.34	9	6	1	116.41	128.21	3.20	-5.27	No	-6.39	0	0.55	0
9.	BOK-9	437.47	10	7	1	115.20	137.44	3.29	-4.44	No	-5.84	0	0.55	0
10.	BOK-10	451.50	11	7	1	120.01	137.44	2.88	-4.68	No	-7.27	0	0.55	0
11.	BOP-1	350.39	6	5	1	94.77	99.11	2.74	-4.36	No	-6.01	0	0.55	0
12.	BOP-2	380.42	7	6	0	101.27	108.34	3.08	-4.42	No	-5.34	0	0.55	0
13.	BOP-3	364.42	6	5	0	99.74	99.11	3.02	-4.65	No	-5.56	0	0.55	0
14.	BOP-4	368.38	6	6	1	94.73	99.11	2.7	-4.51	No	-6.05	0	0.55	0
15.	BOP-5	395.39	7	7	0	103.60	144.93	2.31	-4.41	No	-5.76	0	0.55	0
16.	TCA-1	375.42	8	5	2	96	153.87	1.81	-4.54	No	-5.79	0	0.55	0

Compounds^a in comparison to a literature-reported molecule (TCA-1).

^aMW = molecular weight, RB = Rotatable bonds, HBA = Hydrogen bond Acceptor, HBD = Hydrogen bond donor, MR = Molecular Refractivity, TPSA = topological polar surface area, ilogP = Octanol-water partition coefficient, ESOL logS = Aqueous Solubility, BBB = blood brain barrier, log kP = Skin Permeation, LV = Lipinski's violation, BS = Bioavailability Score, and PAINS alerts = Pan-Assay Interference.