

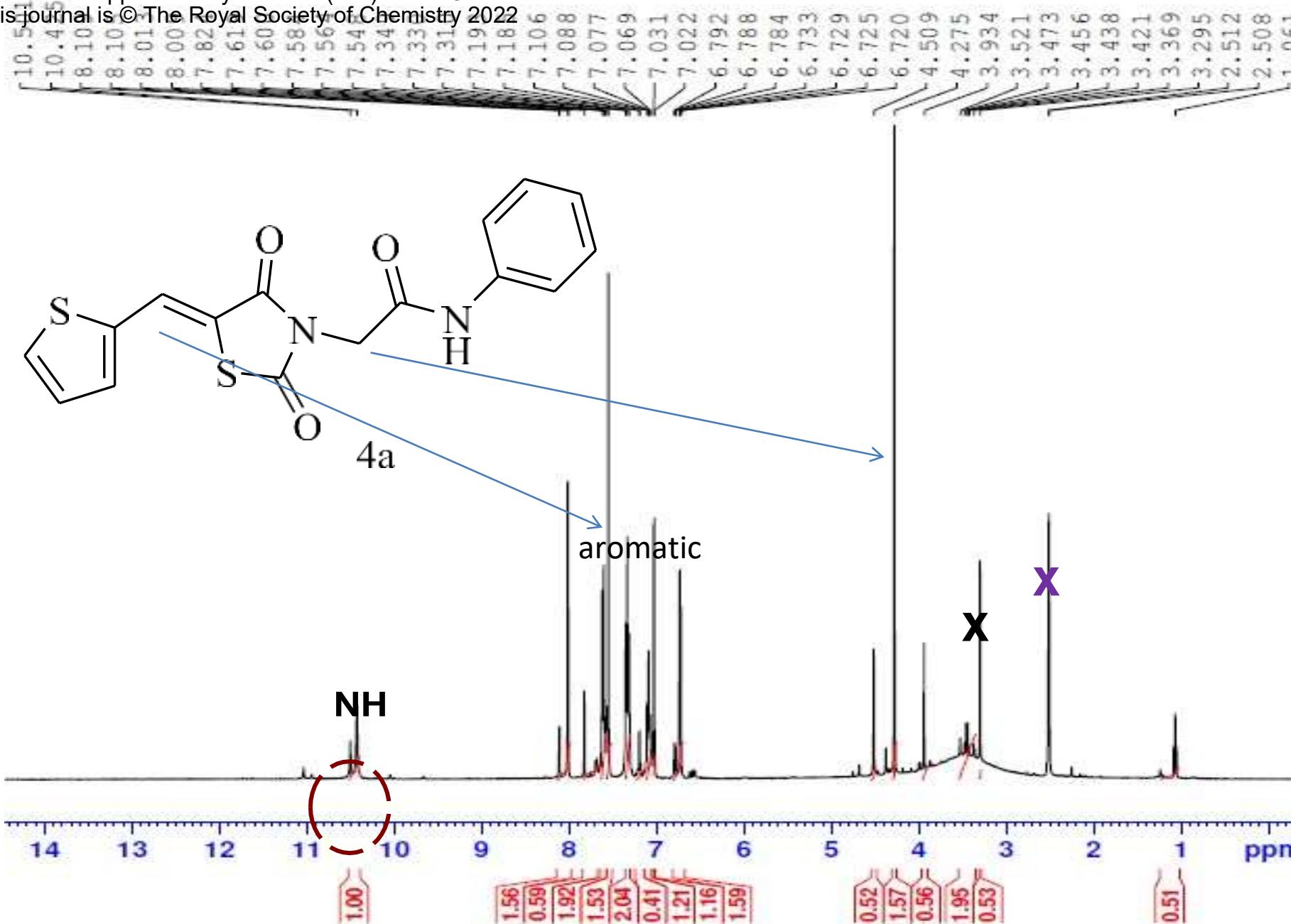


Current Data Parameters
NAME nada-ahmed-3F
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20210916
Time 10.32
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
ID 65536
SOLVENT DMSO
NS 44
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usec
DE 6.50 usec
IE 300.0 K
D1 1.00000000 sec
TD0 1

CHANNEL f1
SF01 400.1524711 MHz
NUC1 1H
PI 12.00 usec
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDO EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR for compound 4a

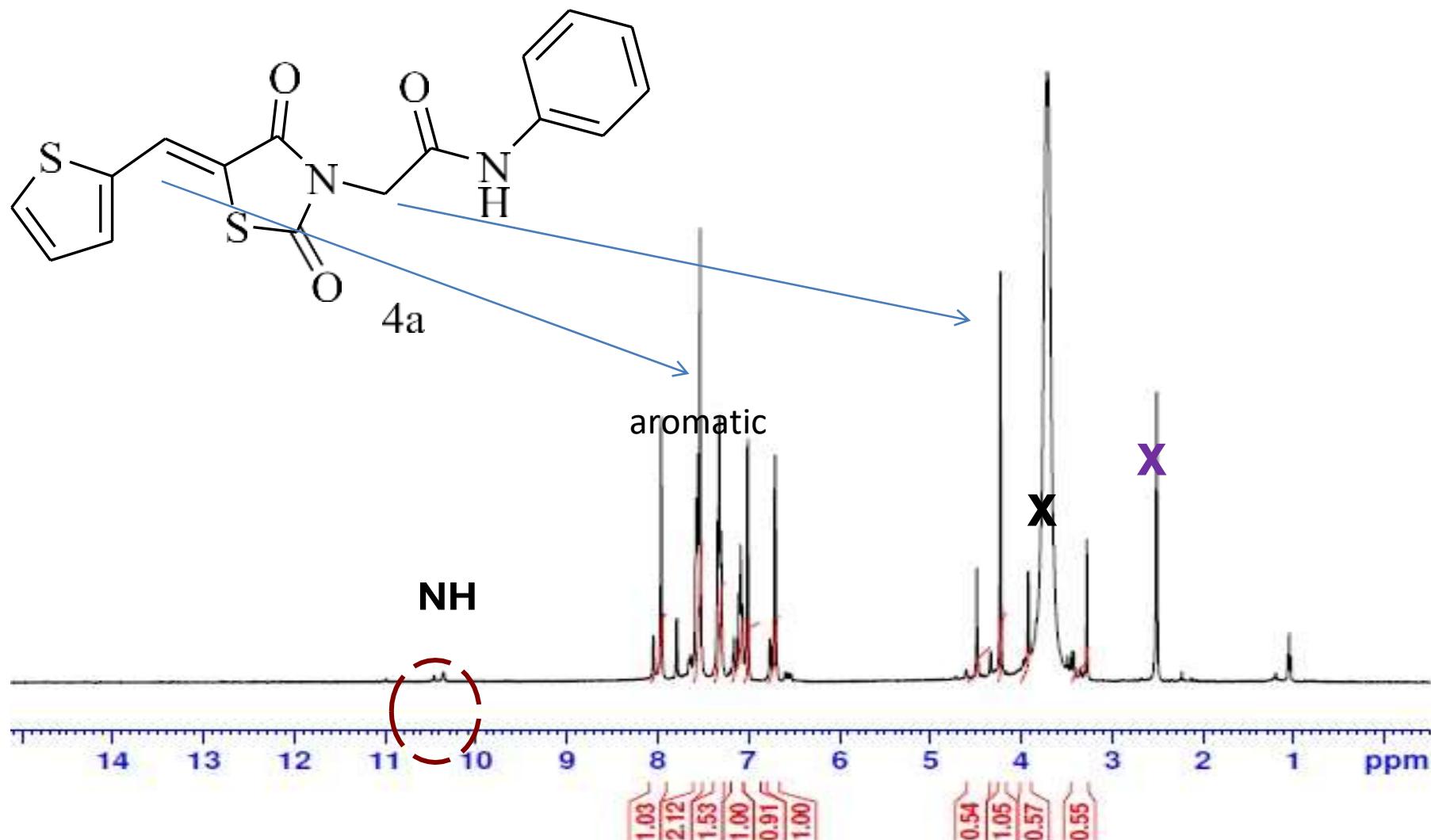


Current Data Parameters
 NAME nada-ahmed-3F-d2O
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20210916
 Time 11.47
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 ID_ 65536
 SOLVENT DMSO
 NS 39
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 205.37
 DW 62.400 usedc
 DE 6.50 usedc
 TE 300.0 K
 D1 1.0000000 sec
 TDO 1

----- CHANNEL f1 -----
 SF01 400.1524711 MHz
 NUC1 1H
 PI 12.00 usec
 PIW1 18.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1500000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 1.00
 PC



¹H NMR (D₂O) for compound 4a

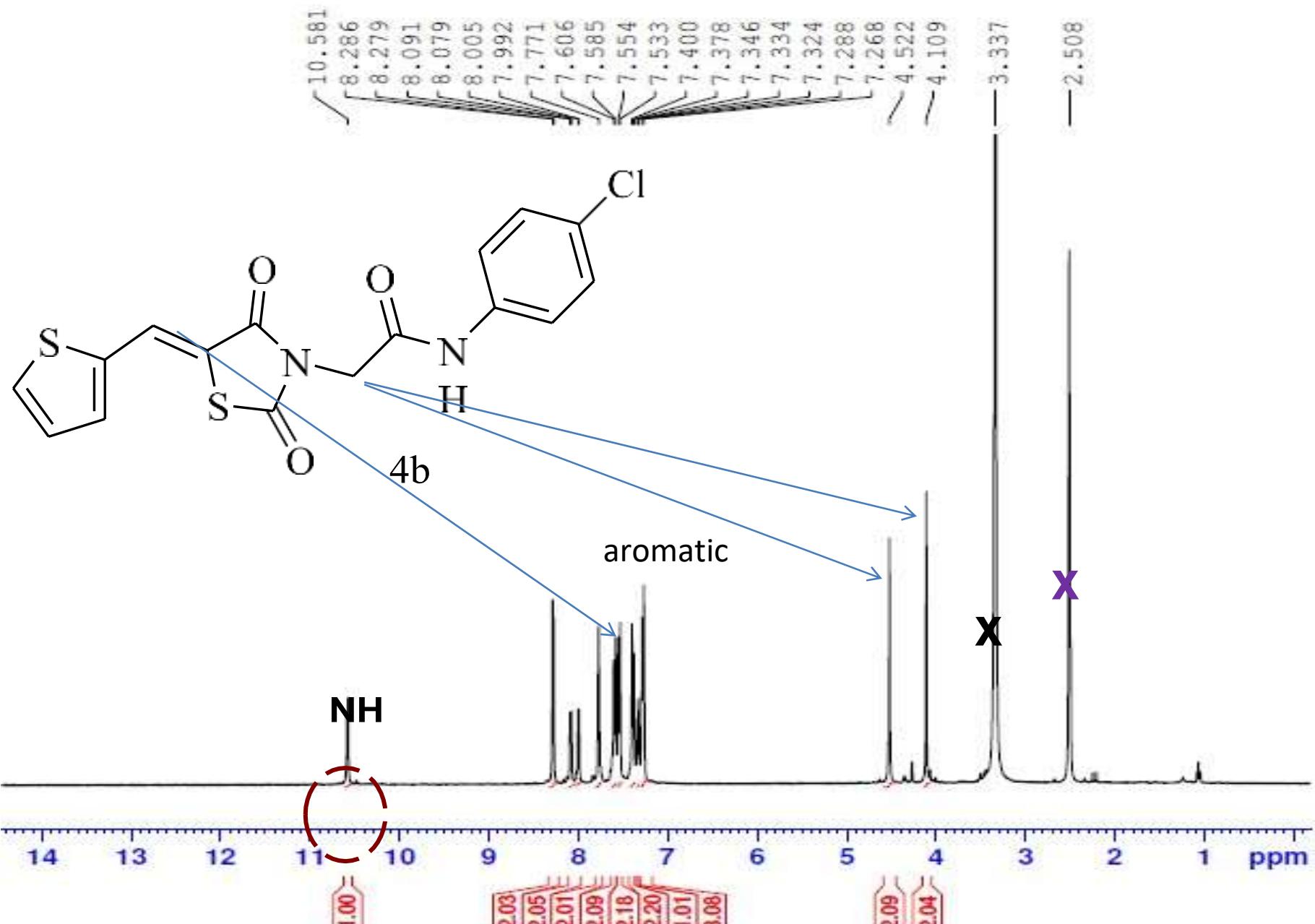


Current Data Parameters
NAME nada-ahmed-3T
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20210916
Time 10.25
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 128
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

----- CHANNEL f1 -----
SF01 400.1524711 MHz
NUC1 1H
P1 12.00 usec
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR for compound 4b

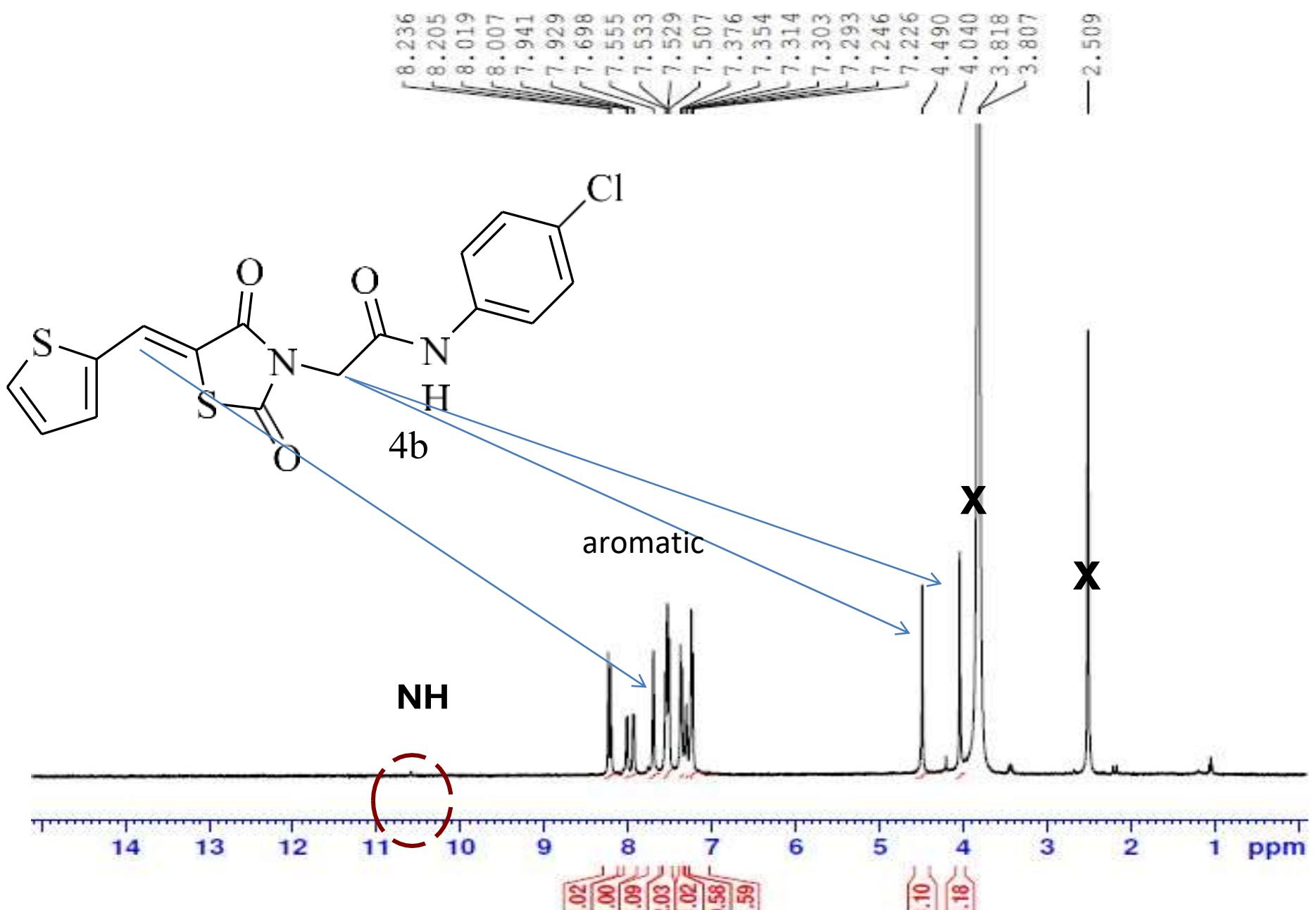


Current Data Parameters
NAME nada-ahmed-3T-d2o
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20210916
Time 11.51
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
ID 65536
SOLVENT DMSO
NS 32
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

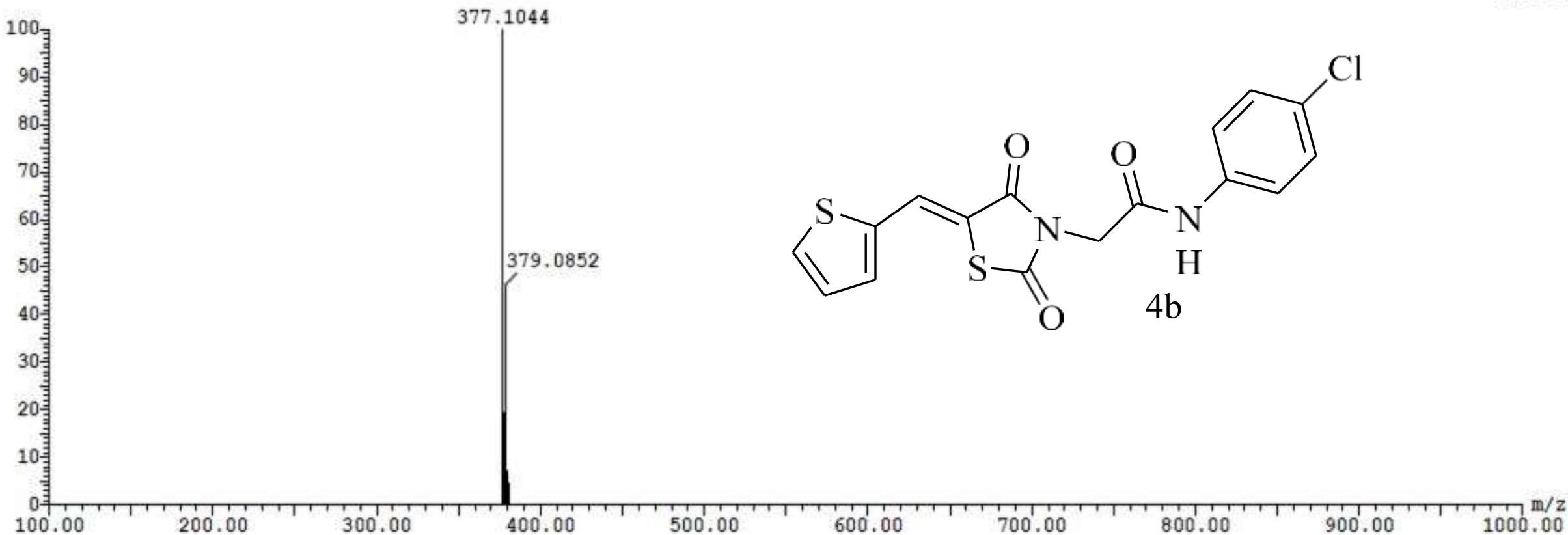
----- CHANNEL f1 -----
SF01 400.1524711 MHz
NUC1 1H
P1 12.00 usec
PIW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0 0.30 Hz
LB 0
GB 0
PC 1.00



Peak ID Time Error PPM
7 13.86
(Time: 13.89)

2:MS ES-
4.0e+006



LC-MS ESI spectrometry in the negative ion mode: The mass spectrum of compound **4b** showed $M+2$ molecular ion peak at 379.0852 and base peak at 377.1044

Liquid Chromatography-Electrospray Ionization-Mass spectra for compound **4b**

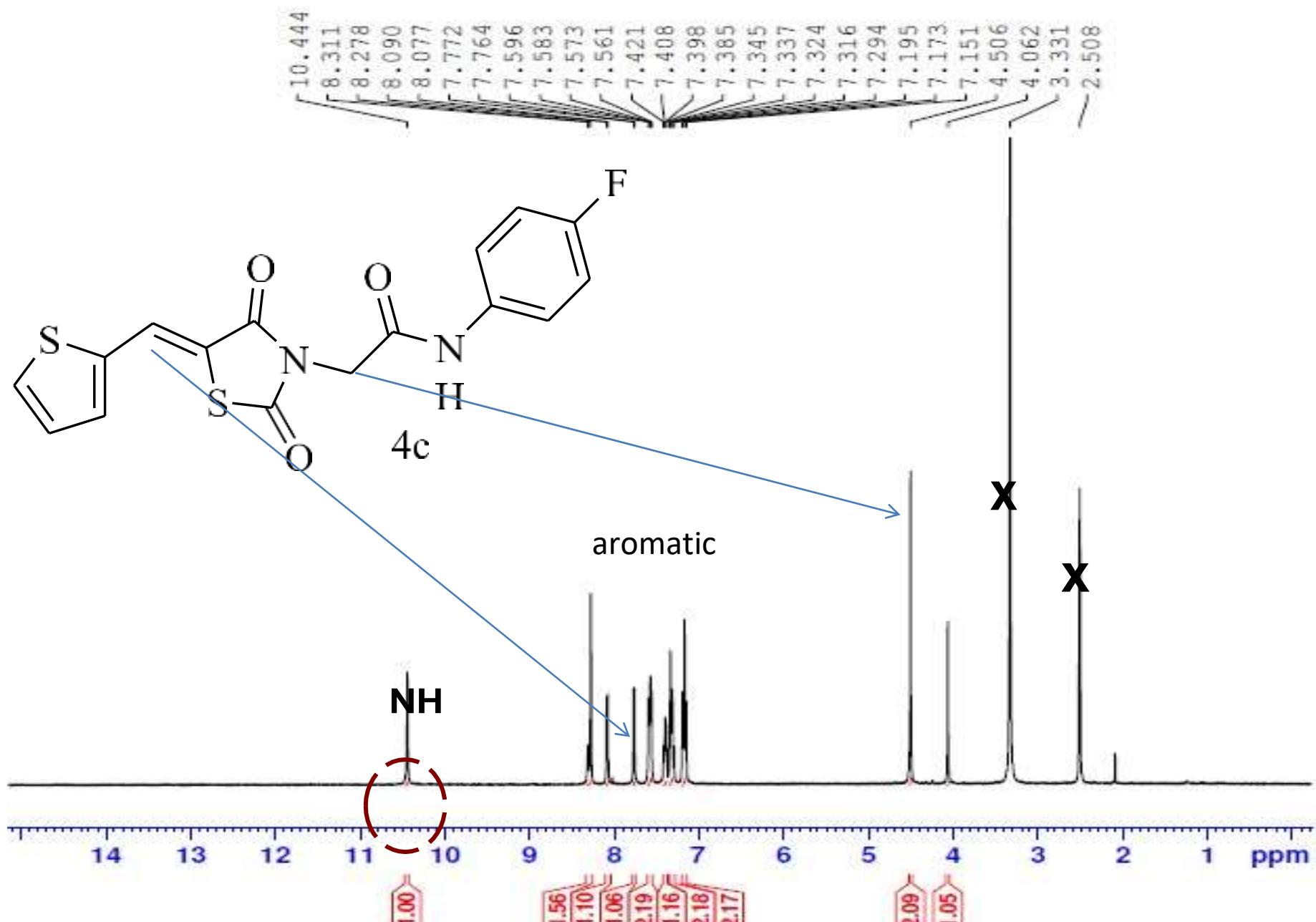


Current Data Parameters
NAME nada-ahmed-4T
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20210906
Time 15.53
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
ID 65536
SOLVENT DMSO
NS 17
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usedc
DE 6.50 usedc
TE 300.0 K
D1 1.00000000 sec
TD0 1

----- CHANNEL f1 -----
SF01 400.1524711 MHz
NUC1 1H
P1 12.00 usec
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 1.00
PC 1.00



¹H NMR for compound 4c



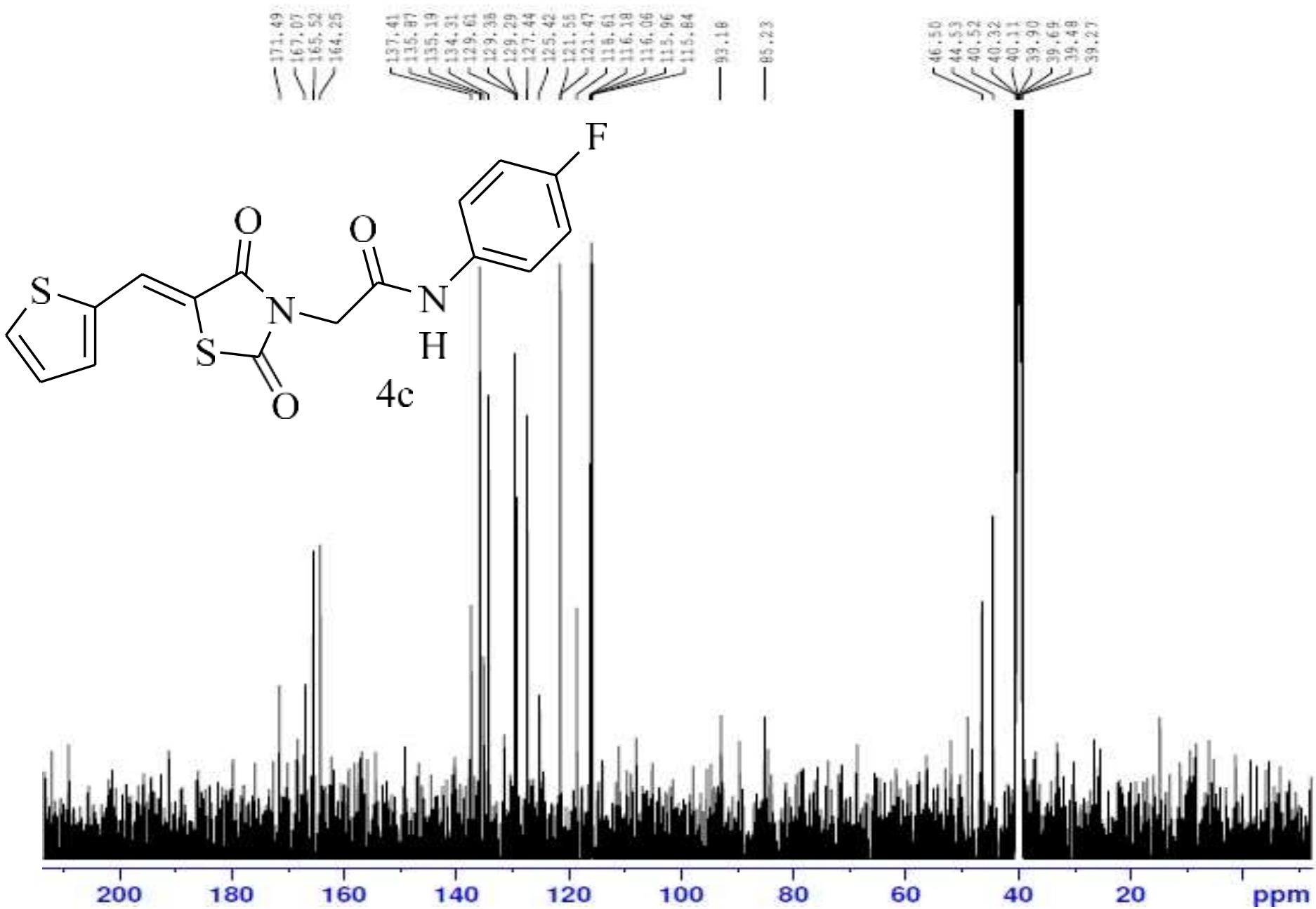
Current Data Parameters
NAME nada-ahmed-4T
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20210920
Time 16.04
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
ID 65536
SOLVENT DMSO
NS 1501
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 205.37
DW 20.800 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 100.6278588 MHz
NUC1 13C
P1 10.00 used
PLW1 47.00000000 W

----- CHANNEL f2 -----
SFO2 400.1516006 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 used
PLW2 18.00000000 W
PLW12 0.34722000 W
PLW13 0.28125000 W

F2 - Processing parameters
SI 32768
SF 100.6177975 MHz
WOW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



¹³C NMR for compound 4c

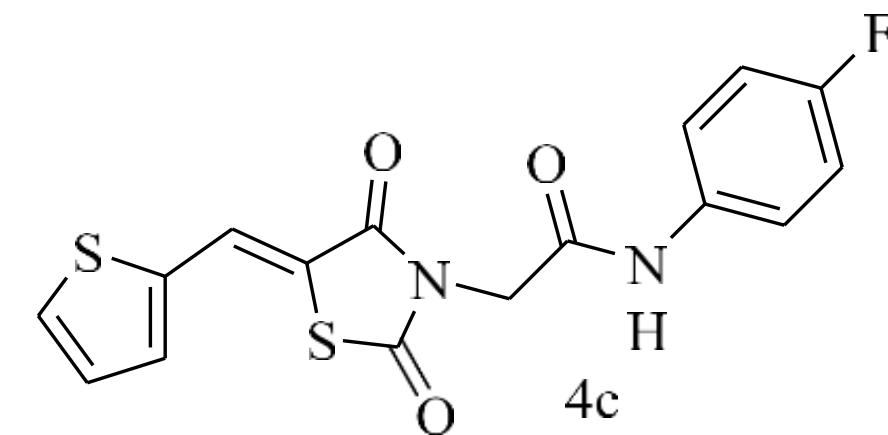
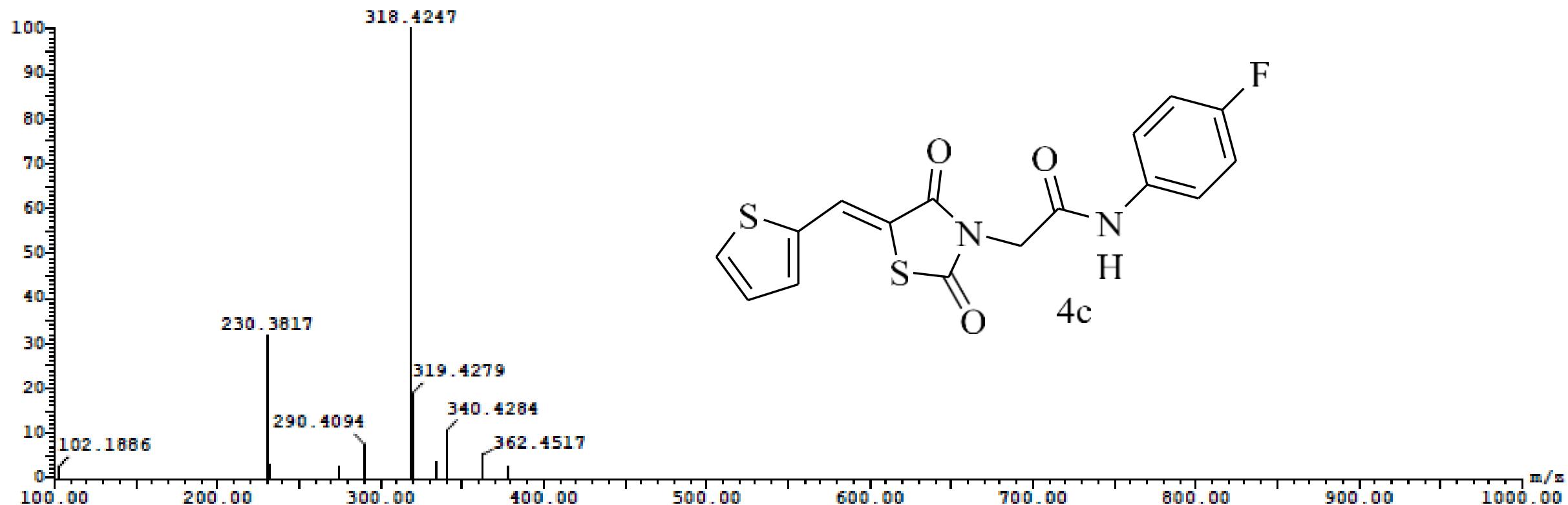
Peak ID Time Error PPM

9 11.67

(Time: 11.67)

1:MS ES+

1.2e+007



4c

LC-MS ESI spectrometry in the positive ion mode: The mass spectrum of compound **4c** showed M molecular ion peak at 362.4517. It showed base peak at 318.4247.

Liquid Chromatography-Electrospray Ionization-Mass spectra for compound **4c**

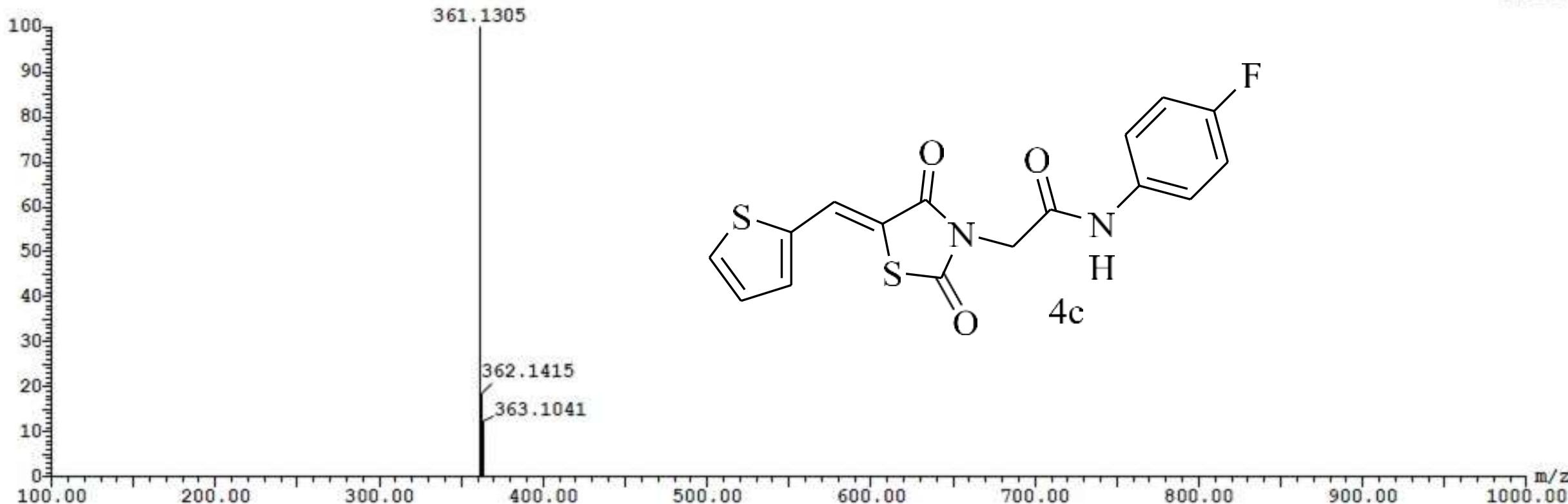
Peak ID Time Error PPM

11 12.66

(Time: 12.67)

2:MS ES-

1.0e+007



LC-MS ESI spectrometry in the negative ion mode: The mass spectrum of compound **4c** showed M-1 molecular ion peak at 361.1305 which also was the base peak. It showed M molecular ion peak at 362.1415 and M+1 molecular ion peak at 363.1041

Liquid Chromatography-Electrospray Ionization-Mass spectra for compound **4c**

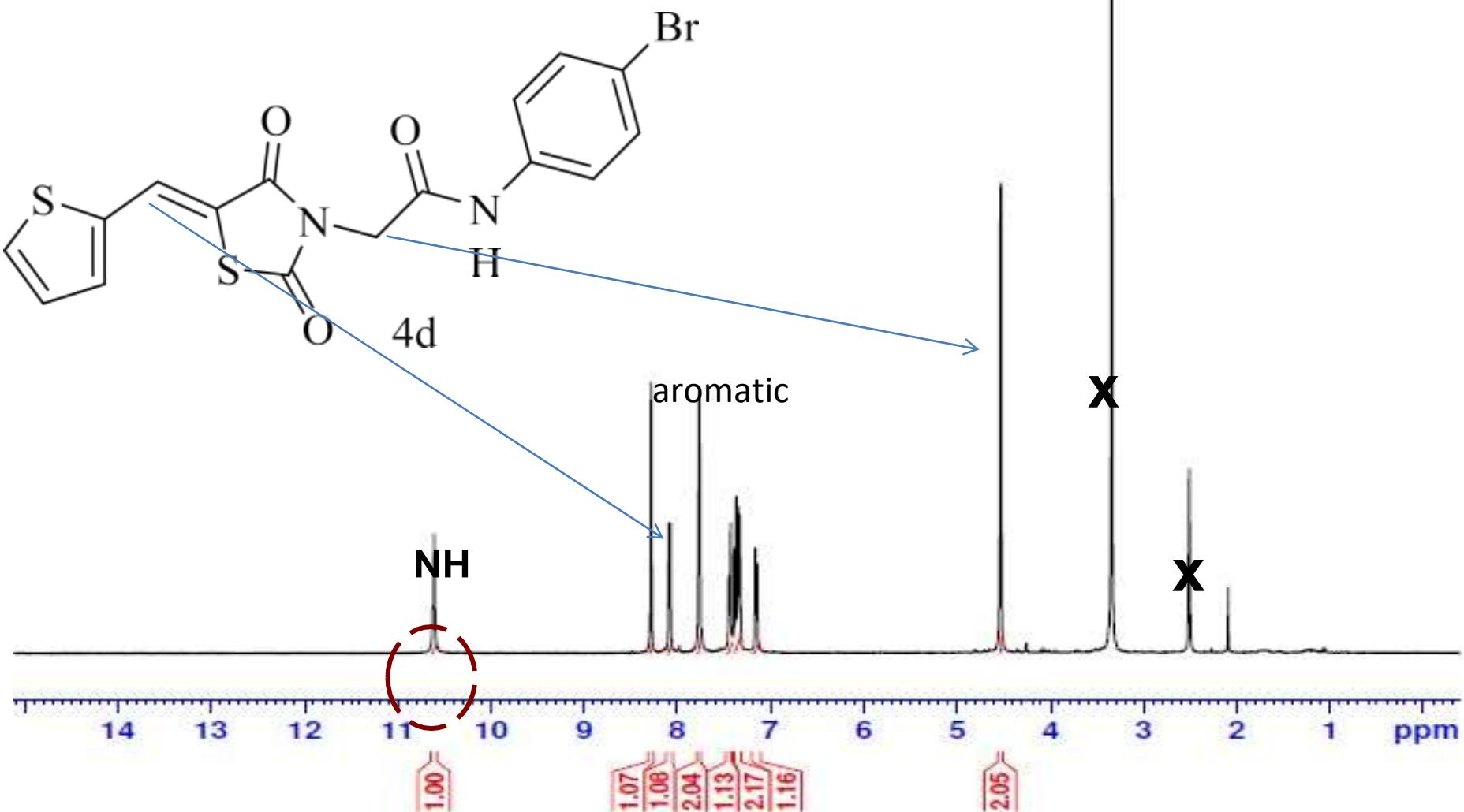


Current Data Parameters
NAME nada-ahmed-6I
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20210906
Time 16.04
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 used
DE 6.50 used
TE 300.0 K
D1 1.0000000 sec
IDO 1

----- CHANNEL f1 -----
SFO1 400.1524711 MHz
NUC1 1H
PI 12.00 used
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 1.00
PC



¹H NMR for compound 4d



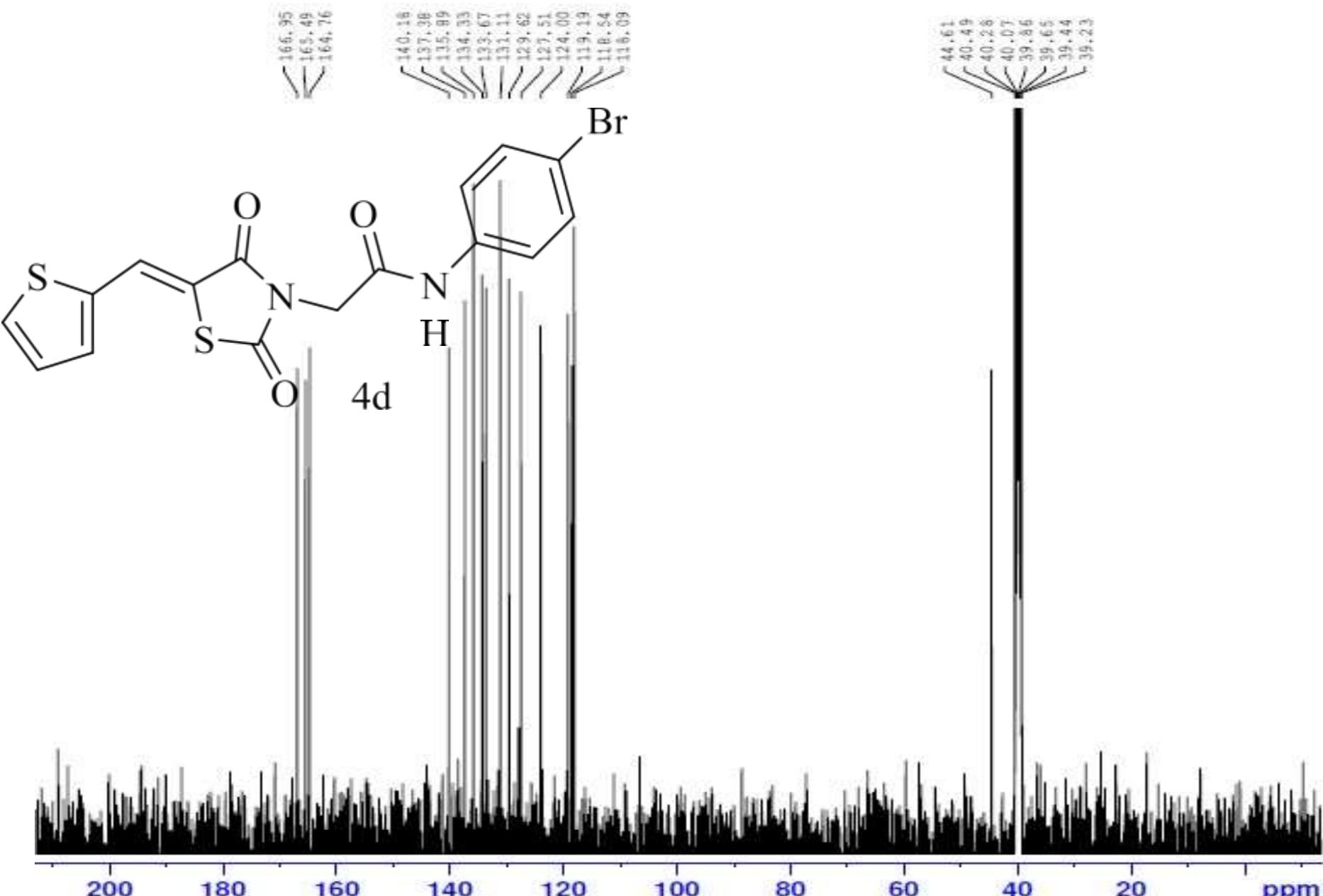
Current Data Parameters
NAME nada-ahmed-6T
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date 20210920
Time 14.36
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
ID 65536
SOLVENT DMSO
NS 951
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 205.37
DW 20.800 usec
DE 6.50 usec
TE 300.0 K
DI 2.0000000 sec
D11 0.0300000 sec
TDO 1

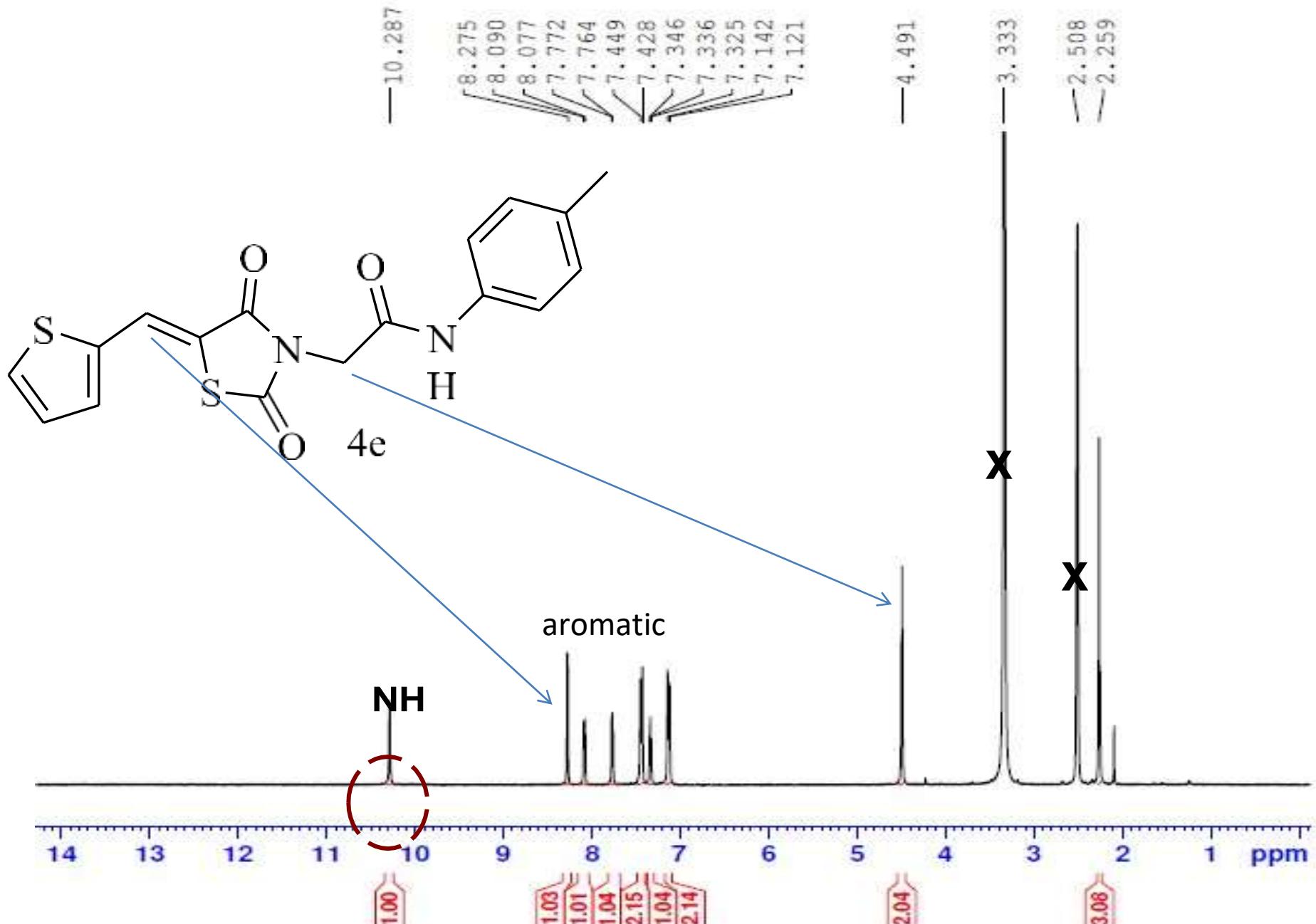
----- CHANNEL f1 -----
SFO1 100.6278588 MHz
NUC1 13C
PI 10.00 used
PLW1 47.00000000 W

----- CHANNEL f2 -----
SFO2 400.1516006 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 used
PLW2 18.00000000 W
PLW12 0.34722000 W
PLW13 0.28125000 W

F2 - Processing parameters
SI 32768
SF 100.6177975 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



¹³C NMR for compound 4d



¹H NMR for compound 4e

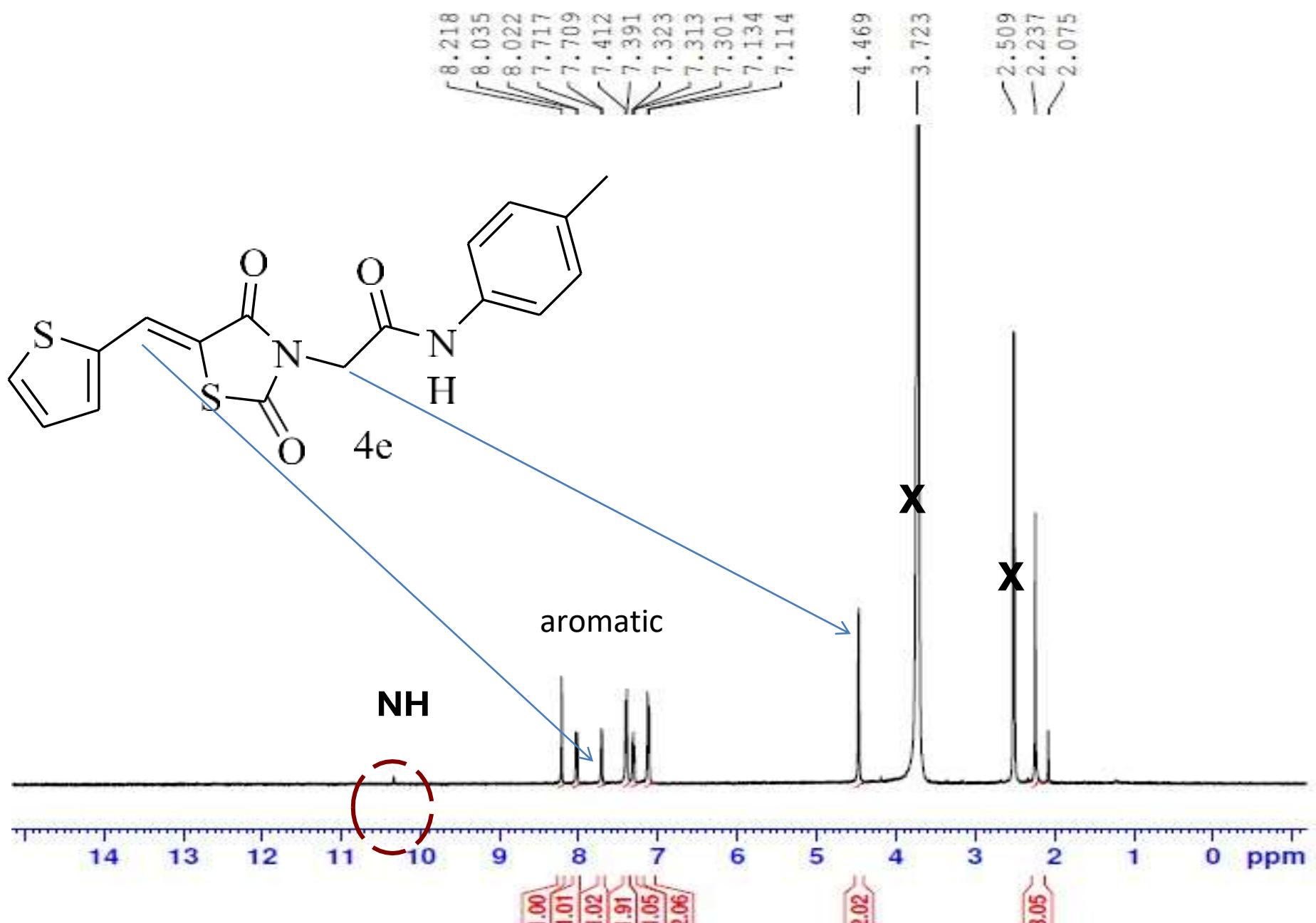


Current Data Parameters
 NAME nada-ahmed-7I
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20210916
 Time 11.12
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 79
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 205.37
 DW 62.400 usec
 DE 6.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 TDO 1

CHANNEL f1
 SF01 400.1524711 MHz
 NUC1 1H
 P1 12.00 usec
 PLW1 18.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1500000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 1.00
 PC



¹H NMR (D_2O) for compound 4e



Current Data Parameters
 NAME nada-ahmed-7I-d2o
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date 20210916
 Time 11.56
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 27
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 205.37
 DW 62.400 used
 DE 6.50 used
 TE 300.0 K
 D1 1.0000000 sec
 TDO 1

----- CHANNEL f1 -----
 SF01 400.1524711 MHz
 NUC1 1H
 PI 12.00 usec
 PLW1 18.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1500000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 1.00

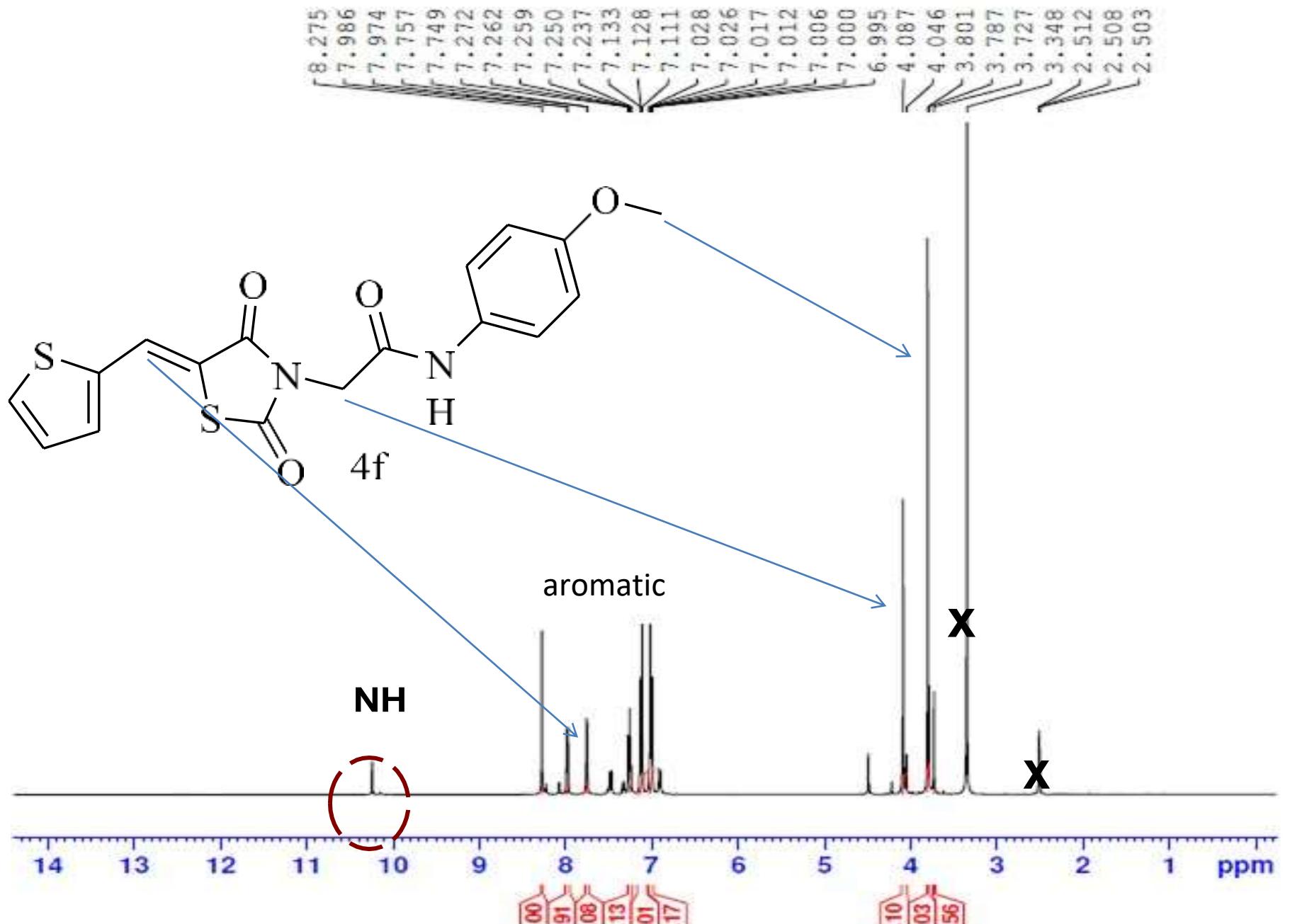


Current Data Parameters
NAME nada-ahmed-5T
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date 20210916
Time 10.49
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 94
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.00000000 sec
TDO 1

----- CHANNEL f1 -----
SF01 400.1524711 MHz
NUC1 1H
PI 12.00 usec
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR for compound 4f

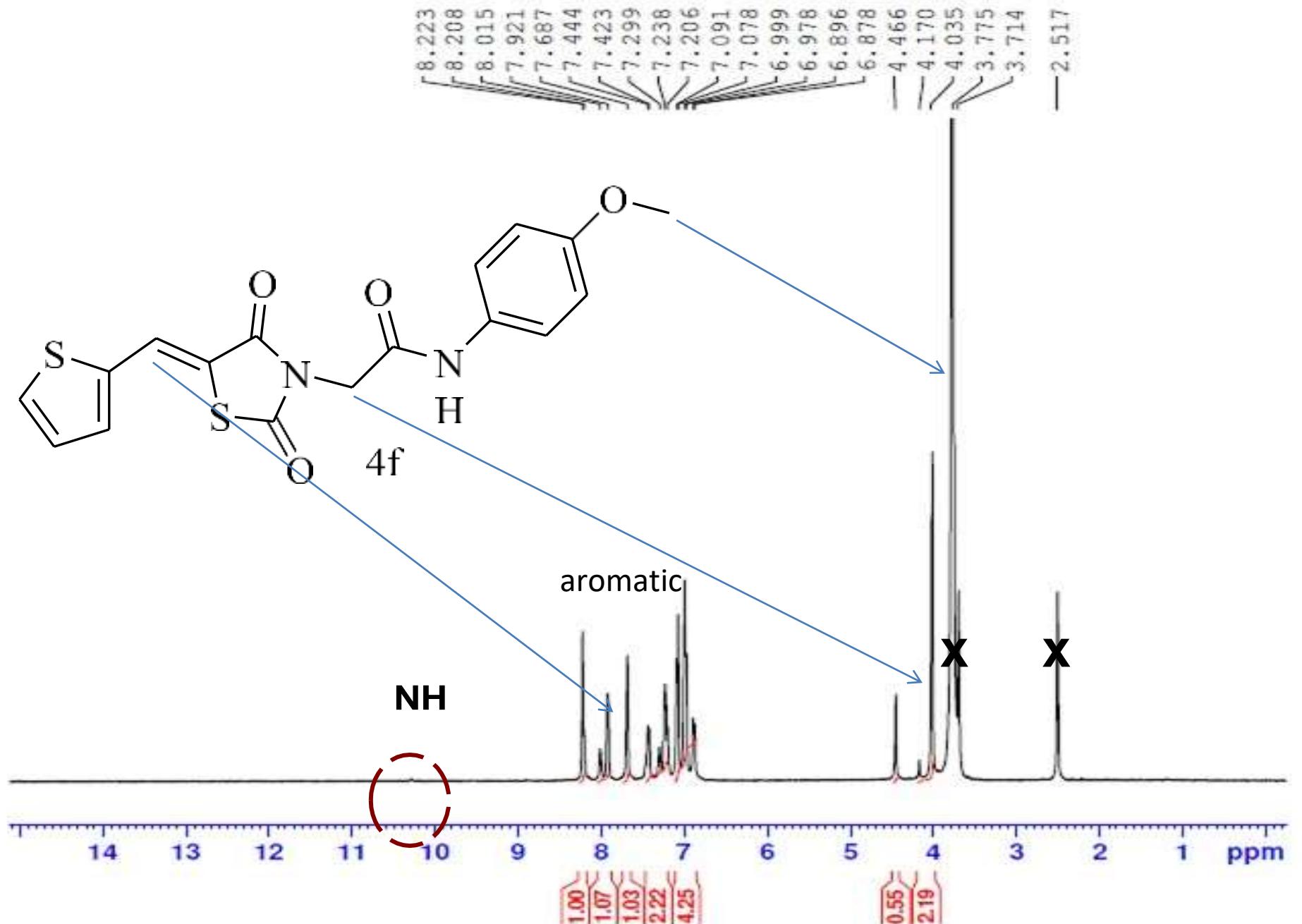


Current Data Parameters
NAME nada-ahmed-5T-d2o
EXPNO 1
PROCNO 1

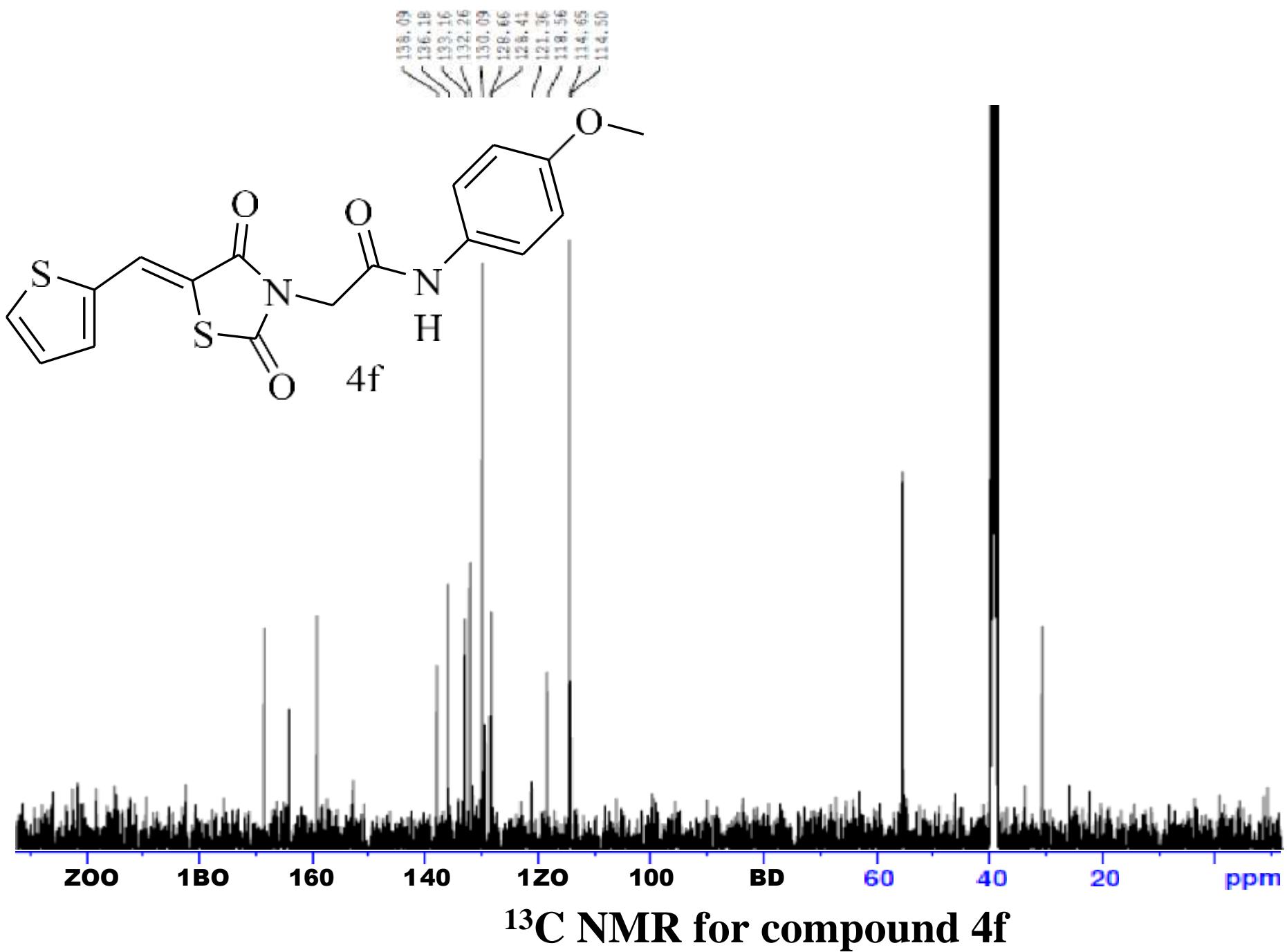
F2 - Acquisition Parameters
Date_ 20210916
Time 11.41
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 40
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 used
DE 6.50 used
TE 300.0 K
D1 1.0000000 sec
TDO 1

----- CHANNEL F1 -----
SFO1 400.1524711 MHz
NUC1 1H
PI 12.00 usec
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR (D₂O) for compound 4f



oate_ 20211028

PRDBHO b oxs PABBO BB/
PULP|ROG zgpqZo

ns L9J 4

EH TECD3B.Oil Hz
FIDRES D.366W9B Hz
AC 1.36BLO88 Dec
RG PD5.3W
DW JD.BOO uaec

TE S DO .0 K
 O L Z . D D D D D O O O C
 O L L 0 . D Z D D D O O O C
 T D D 1

sF01 100.6278588 MHz
NUCI 13C
 PL LD. OO U C
 PI]01 47. D D D D D O O O W

sPoJ 400.1516006 MHz
 WUCJ 1H
 CPOPRG [] waltz16
 PCPO2 9D. OO uW=u
 PIMJ 2B. D D D D D O O O N

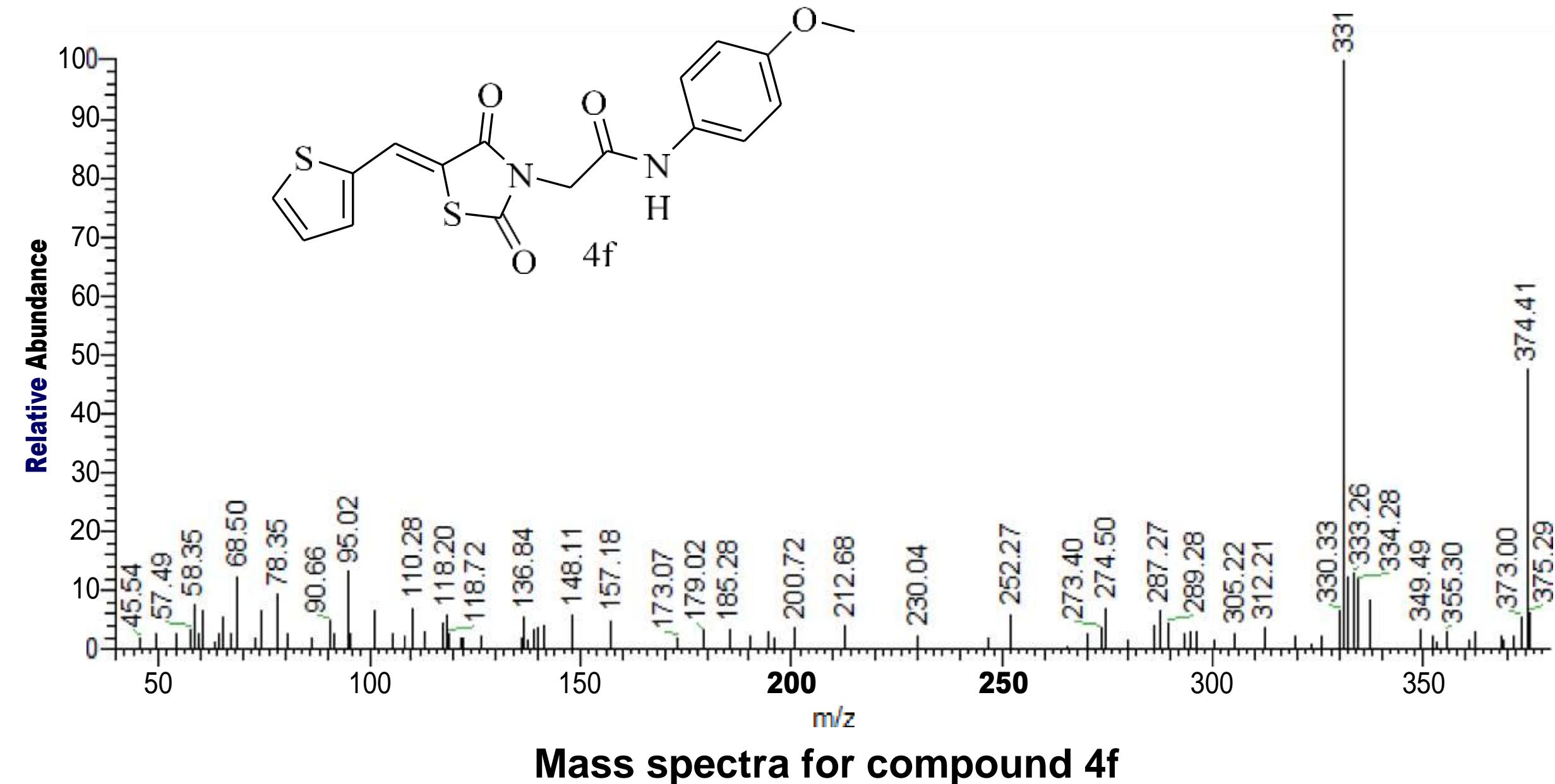
PL]01Z 0.28125000 W

FJ - Processing parameters

SP 100.6177975 MHz

LB 1.00 Hz

PO L4O



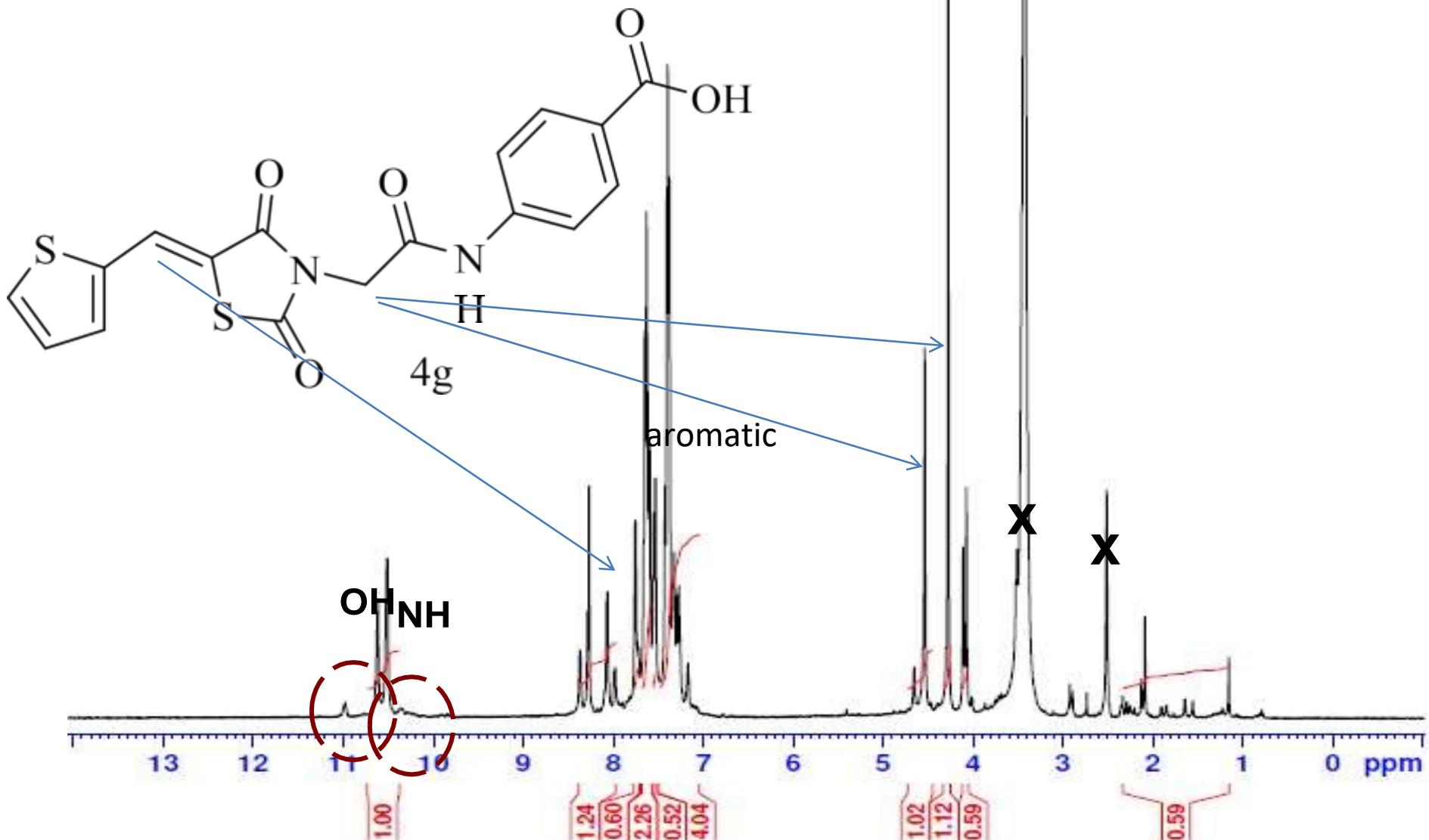


Current Data Parameters
 NAME nada-aziz-9T
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date 20211004
 Time 14.02
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 22
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 205.37
 DW 62.400 usedc
 DE 6.50 usedc
 TE 300.0 K
 D1 1.00000000 sec
 TDO 1

----- CHANNEL f1 -----
 SF01 400.1524711 MHz
 NUC1 1H
 P1 12.00 usedc
 PLW1 18.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1500000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



¹H NMR for compound 4g

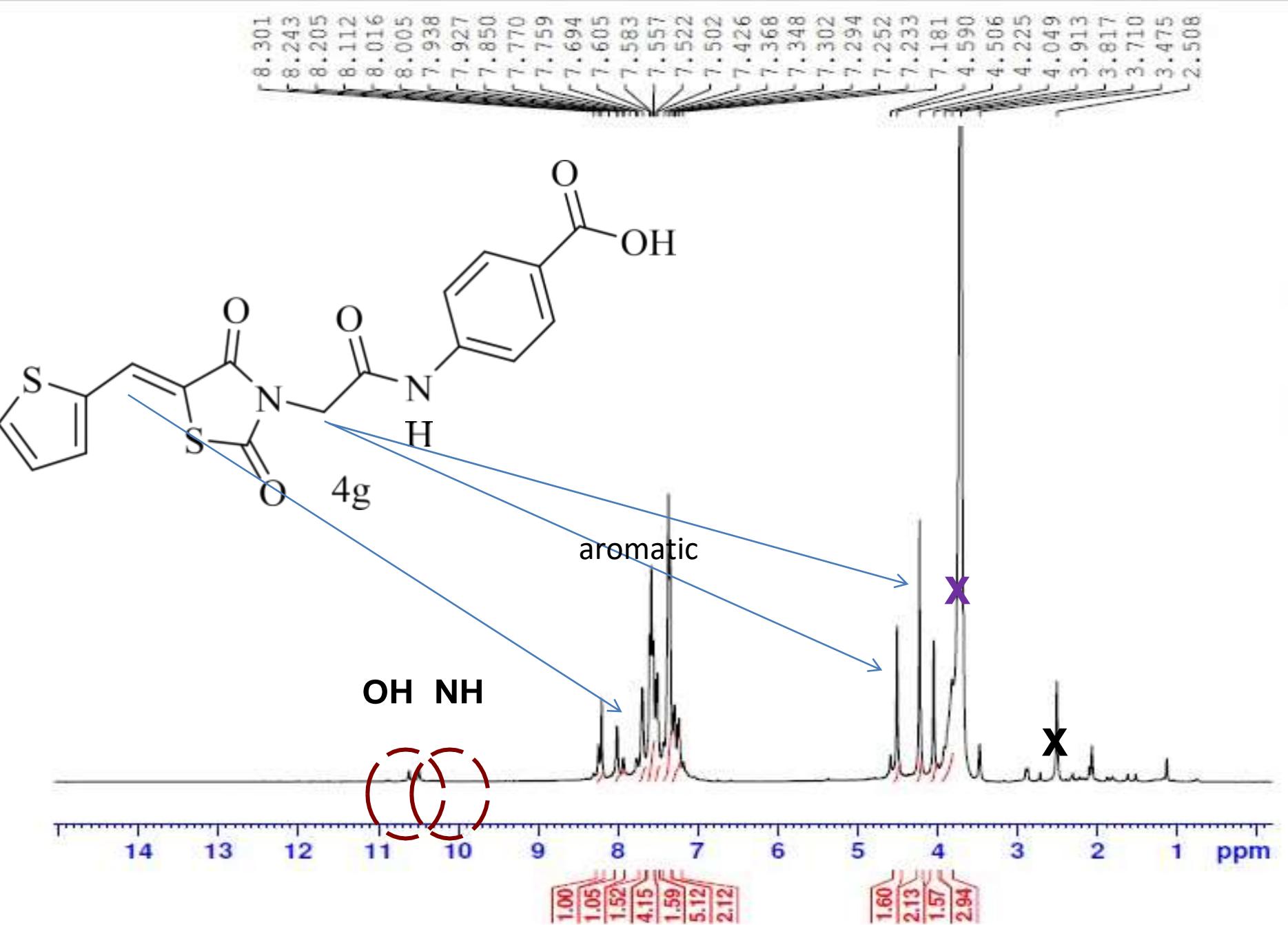


Current Data Parameters
NAME nada-aziz-9T-d2O
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211005
Time 10.48
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 63
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.0000000 sec
IDO 1

----- CHANNEL f1 -----
SFO1 400.1524711 MHz
NUC1 1H
P1 12.00 usec
PLW1 18.00000000 W

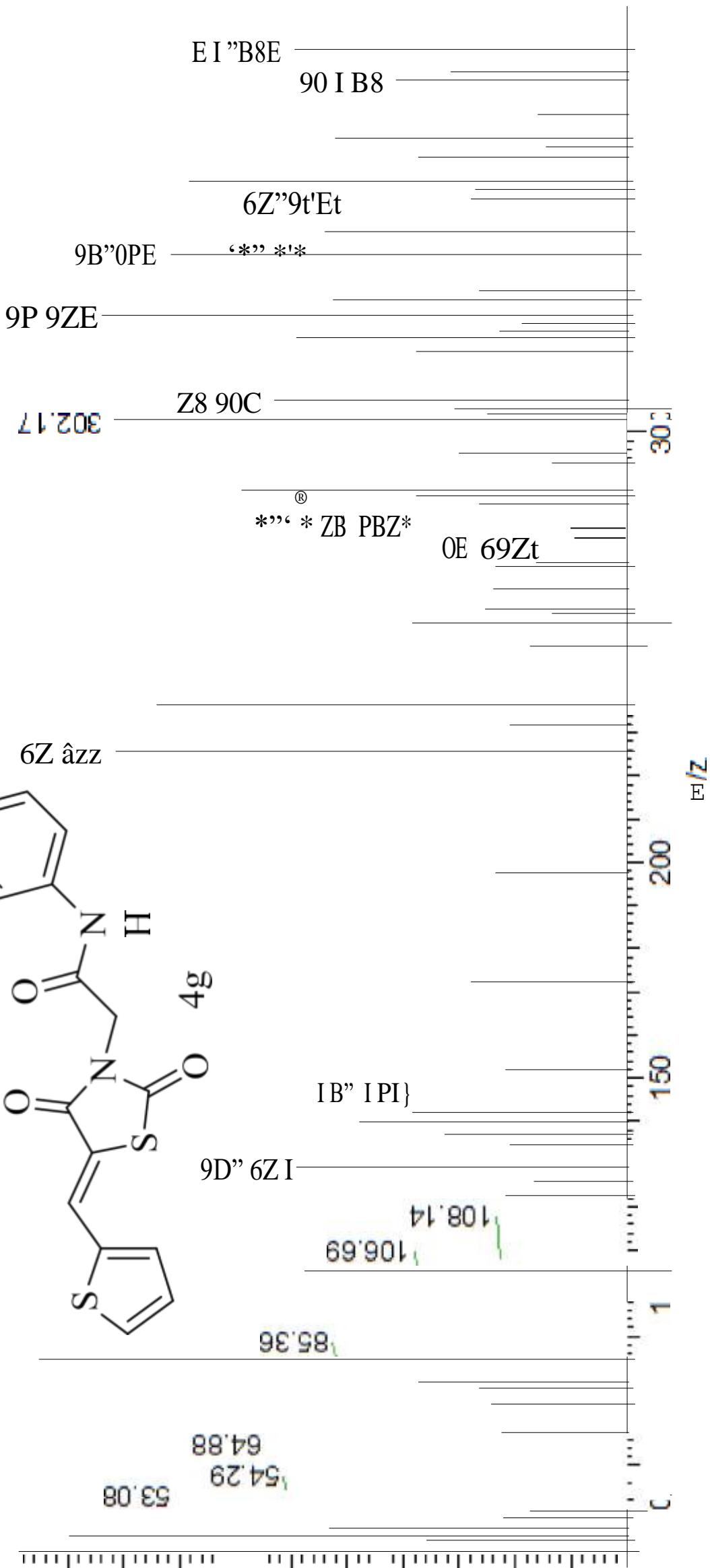
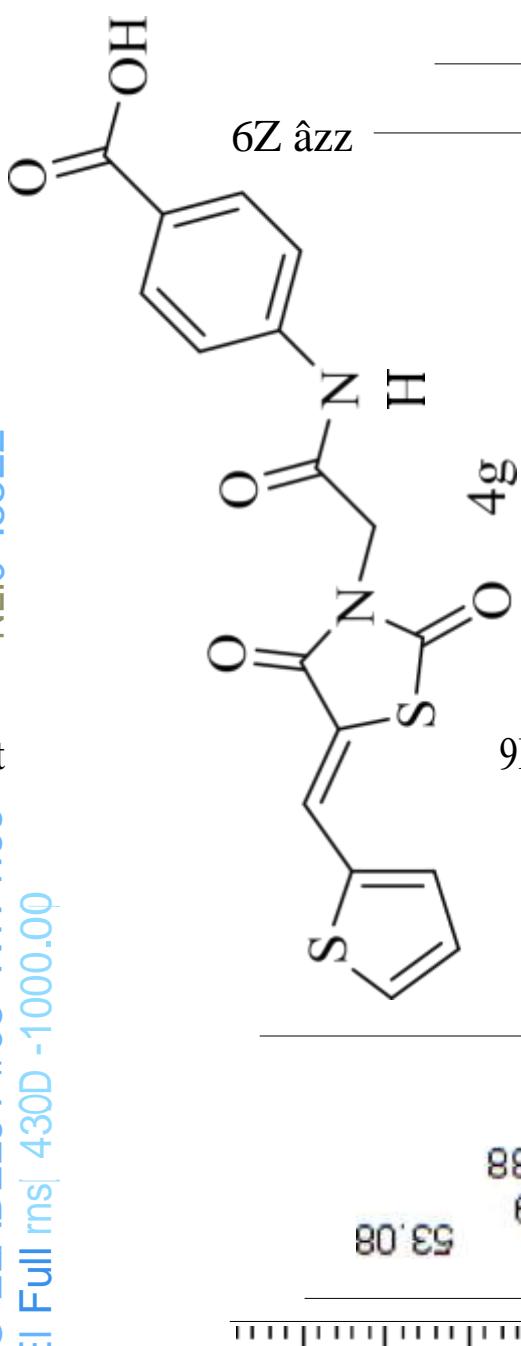
F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR (D_2O) for compound 4g

Mass spectra for compound 4g

KHALEO-ELADEL6T #08 RT. 1.66 Δ
T.+c EI Full rms| 430D -1000.00



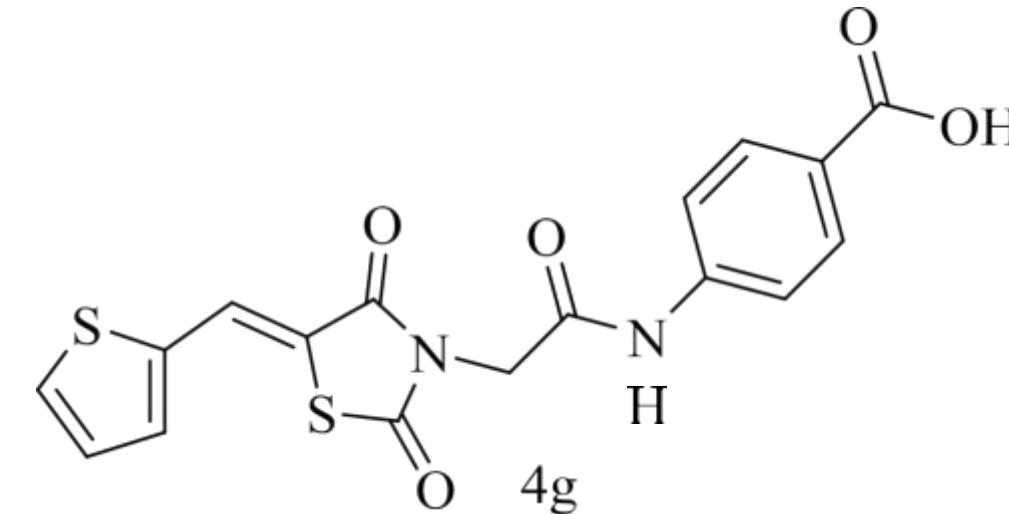
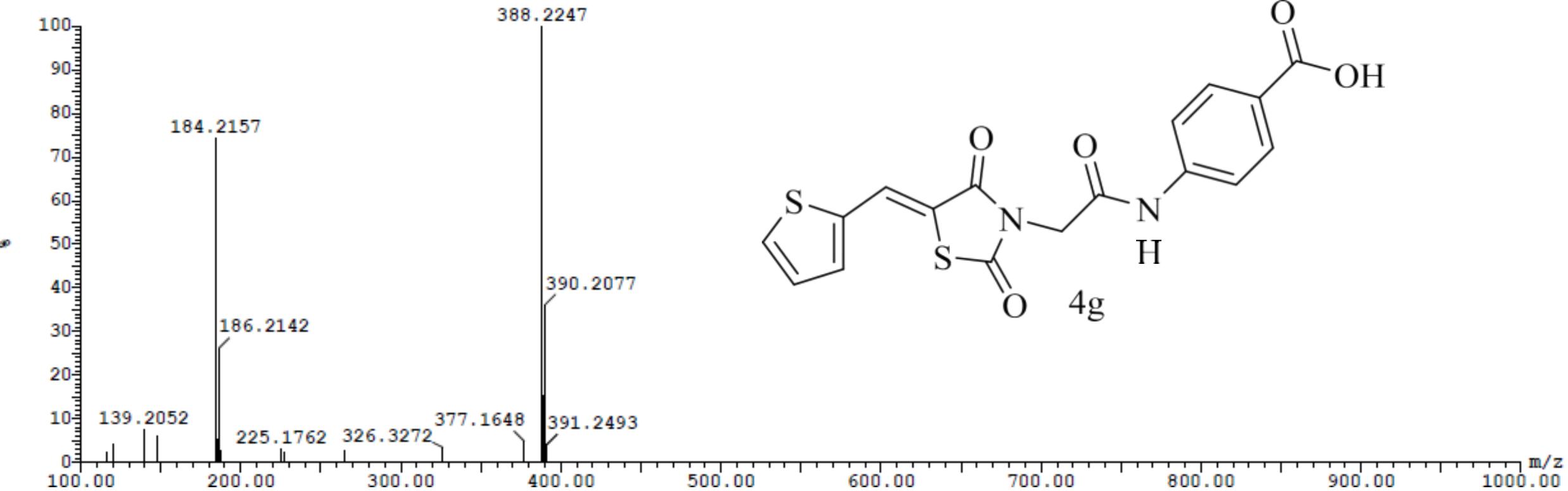
acuepunqp aztipjag

Peak ID Time Error PPM

15 8.39

(Time: 8.39)

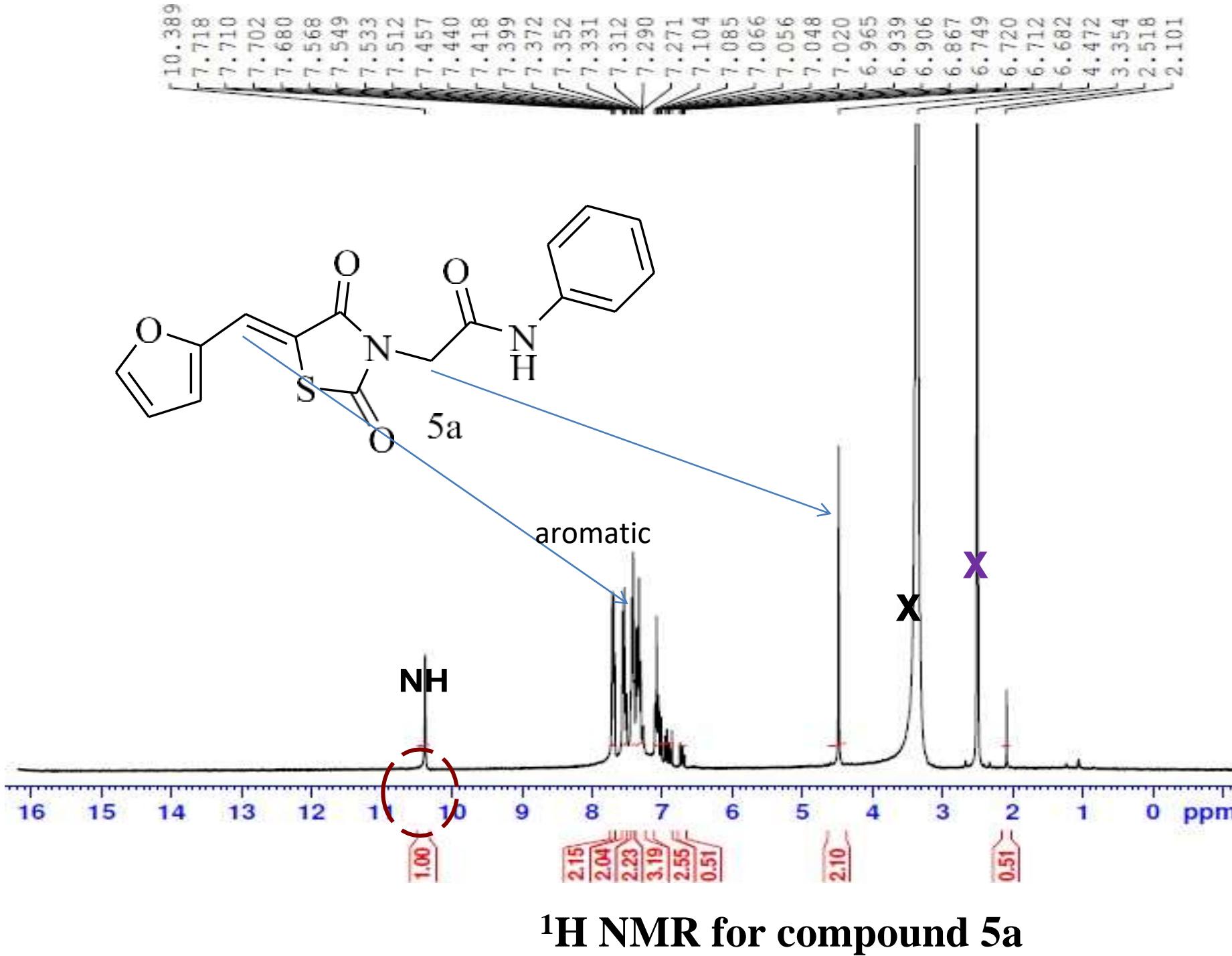
1:MS ES+
1.4e+007



4g

LC-MS ESI spectrometry in the positive ion mode: The mass spectrum of compound **4g** showed M molecular ion peak at 388.2247 which also was the base peak. It showed M+2 and M+3 molecular ion peaks at 390.2077 and 391.2493 respectively.

Liquid Chromatography-Electrospray Ionization-Mass spectra for compound **4g**



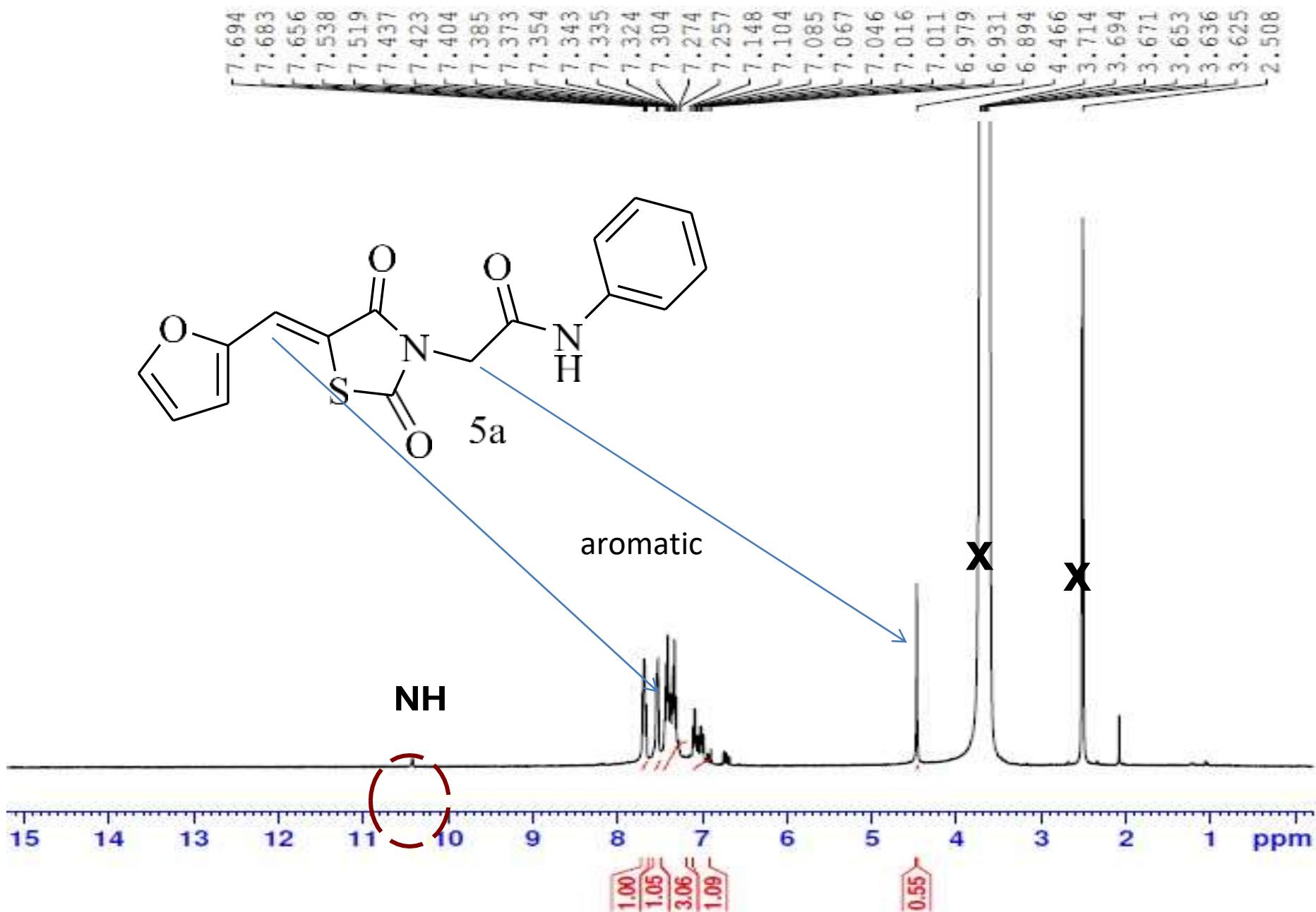


Current Data Parameters
NAME nada-azix-3F-d2O
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date 20211005
Time 10.22
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
ID 65536
SOLVENT DMSO
NS 122
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 used
DE 6.50 used
TE 300.0 K
D1 1.00000000 sec
TDQ 1

CHANNEL f1
SF01 400.1524711 MHz
NUC1 1H
P1 12.00 used
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



^1H NMR (D_2O) for compound 5a

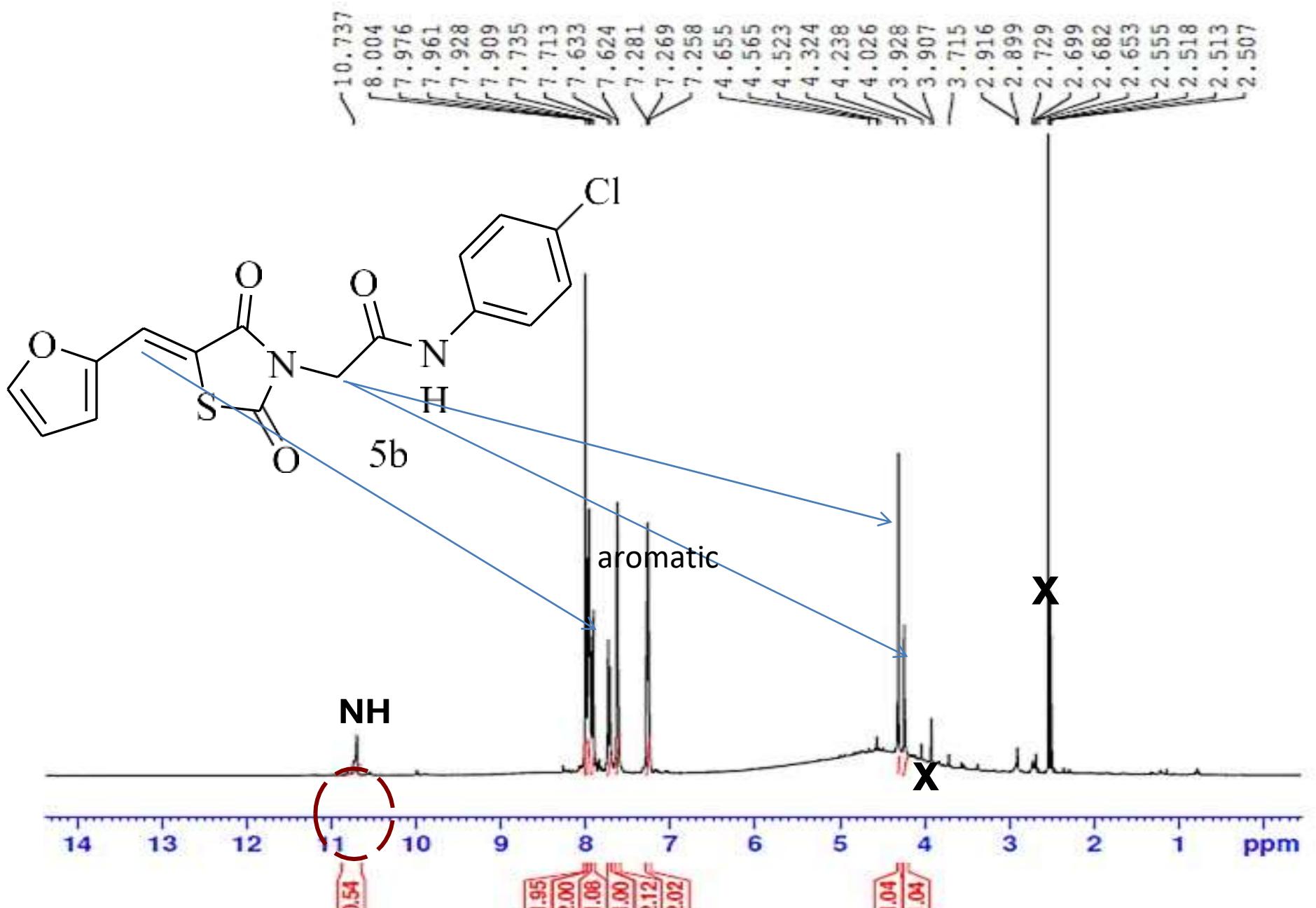


Current Data Parameters
NAME nada-azix-T
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211004
Time 13.42
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 45
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.0000000 sec
TDO 1

----- CHANNEL f1 -----
SF01 400.1524711 MHz
NUC1 1H
P1 12.00 usec
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR for compound 5b

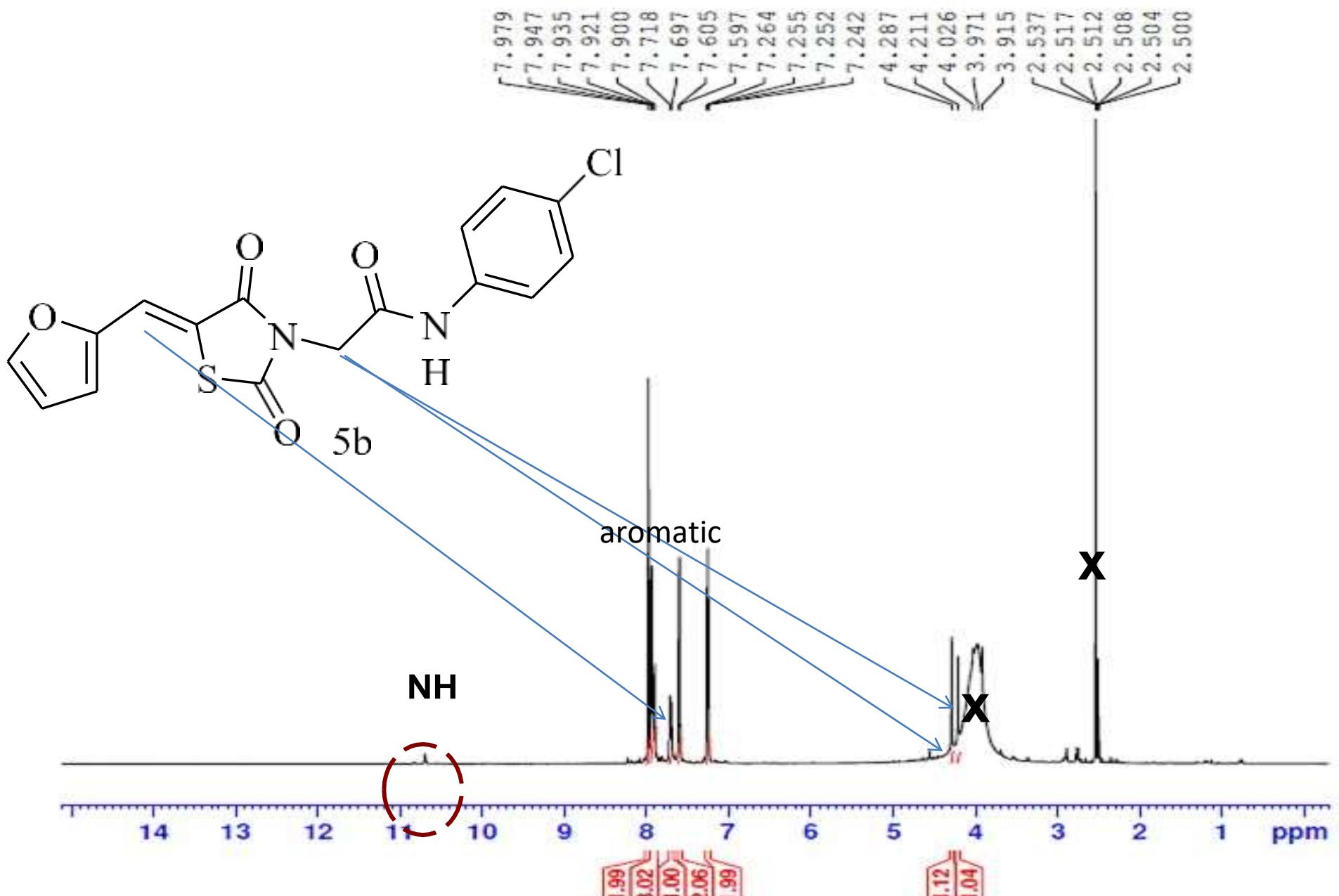


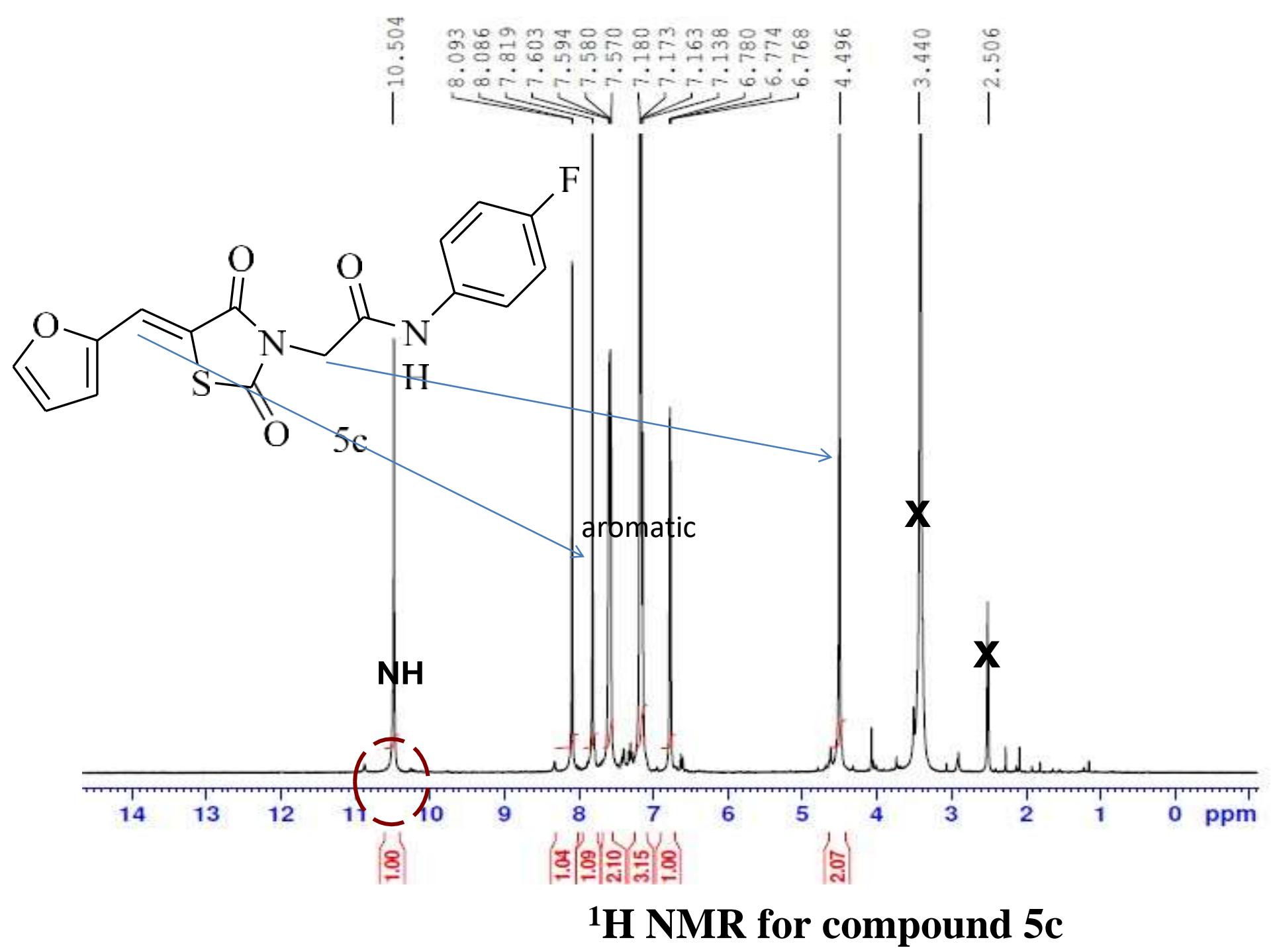
Current Data Parameters
NAME nada-azix-T-D2O
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date 20211004
Time 15.01
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 50
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usec
DE 6.50 used
TE 300.0 K
D1 1.00000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1524711 MHz
NUC1 1H
P1 12.00 usec
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WOW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





Current Data Parameters
NAME nada-aziz-6F
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211004
Time 14.48
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.0000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.1524711 MHz
NUC1 1H
P1 12.00 usec
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

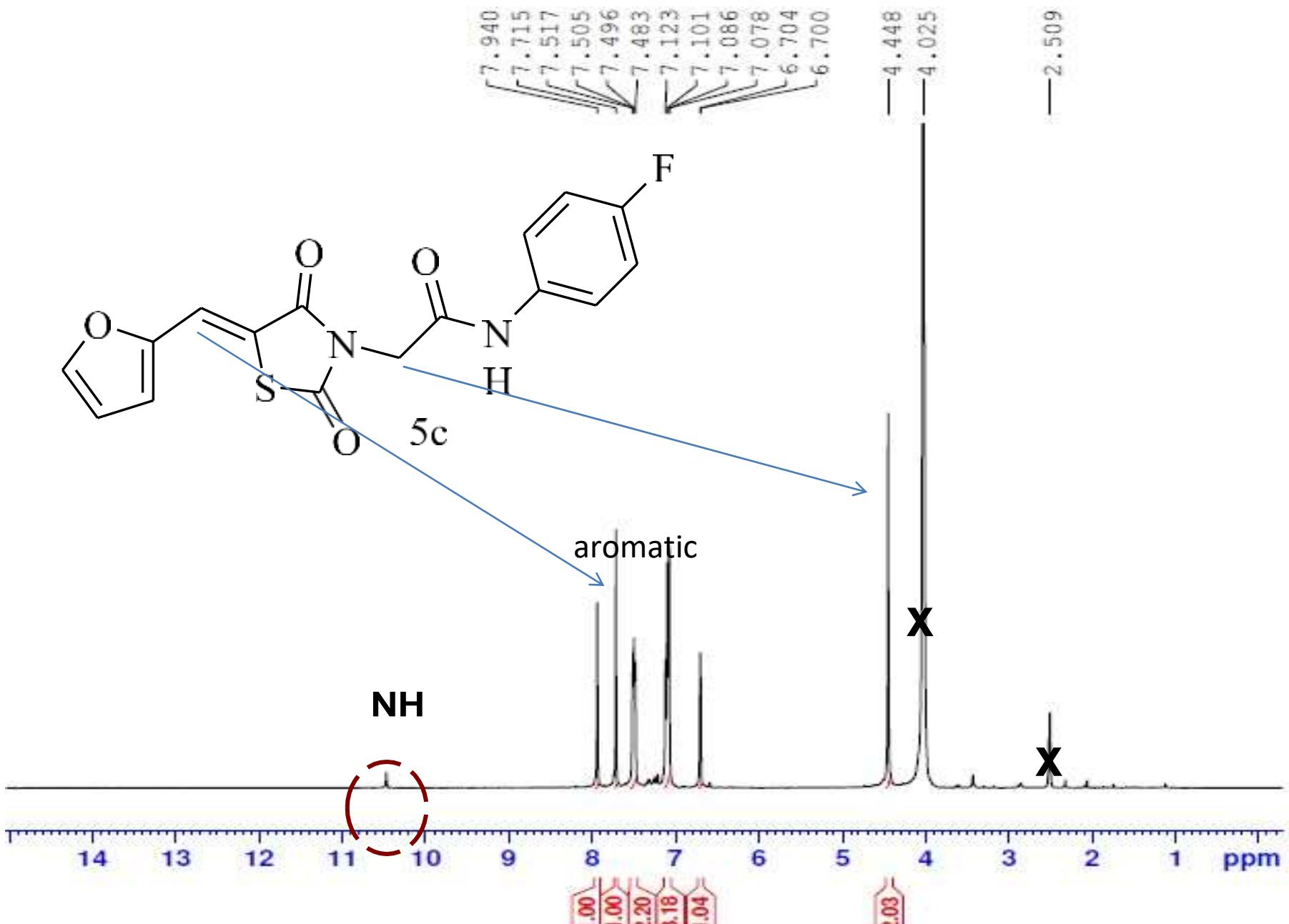


Current Data Parameters
NAME nadia-aziz-6f-d2o
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211005
Time 10.36
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
ID 65536
SOLVENT DMSO
NS 33
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

----- CHANNEL f1 -----
SF01 400.1524711 MHz
NUC1 1H
P1 12.00 usec
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



^1H NMR (D_2O) for compound 5c

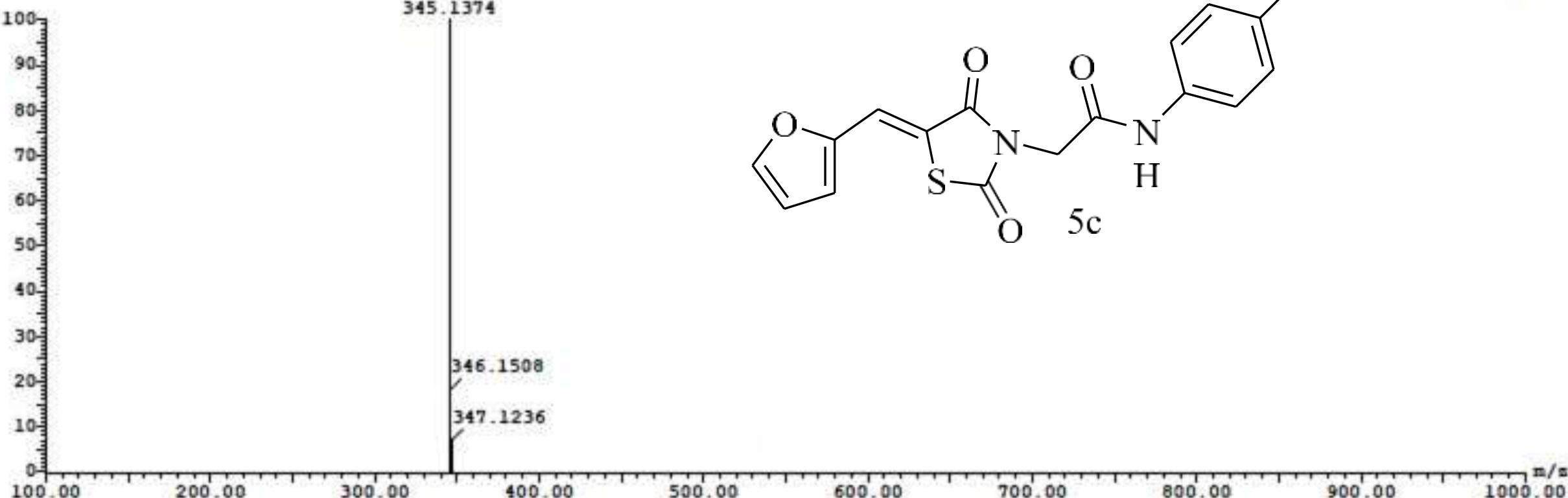
Peak ID Time Error PPM

0 11.67

(Time: 11.72)

2:MS ES-

2.3e+007



LC-MS ESI spectrometry in the negative ion mode: The mass spectrum of compound **5c** showed M-1 molecular ion peak at 345.1374 which also was the base peak

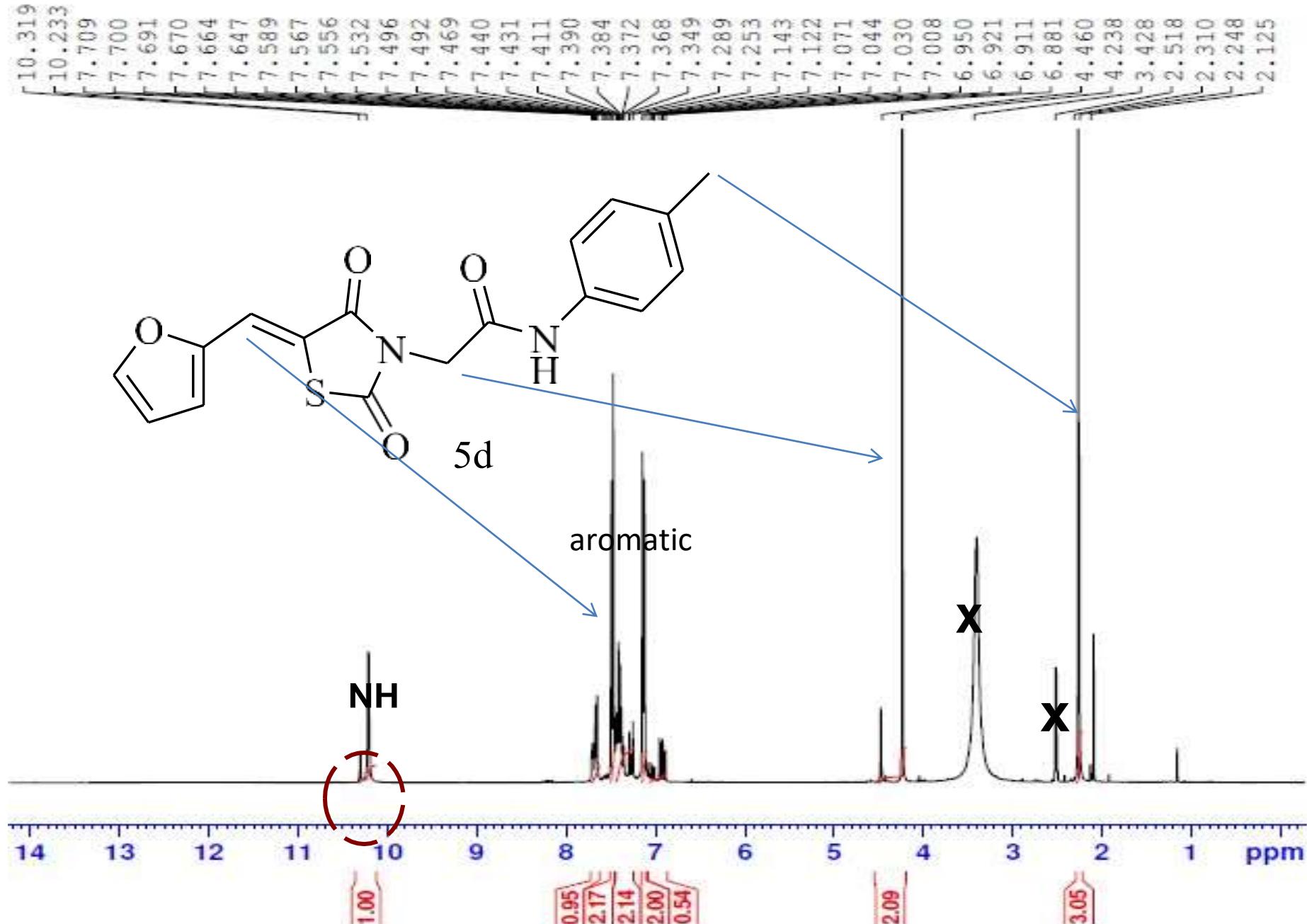
Liquid Chromatography-Electrospray Ionization-Mass spectra for compound 5c

Current Data Parameters
 NAME nada-azix-5F
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20211004
 Time 14.33
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 40
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 205.37
 DW 62.400 usec
 DE 6.50 usec
 TE 300.0 K
 D1 1.0000000 sec
 TDO 1

CHANNEL f1
 SF01 400.1524711 MHz
 NUC1 1H
 PI 12.00 usec
 PLW1 18.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1500000 MHz
 WDW EM
 SSB 0
 LB 0
 GB 0
 PC 1.00

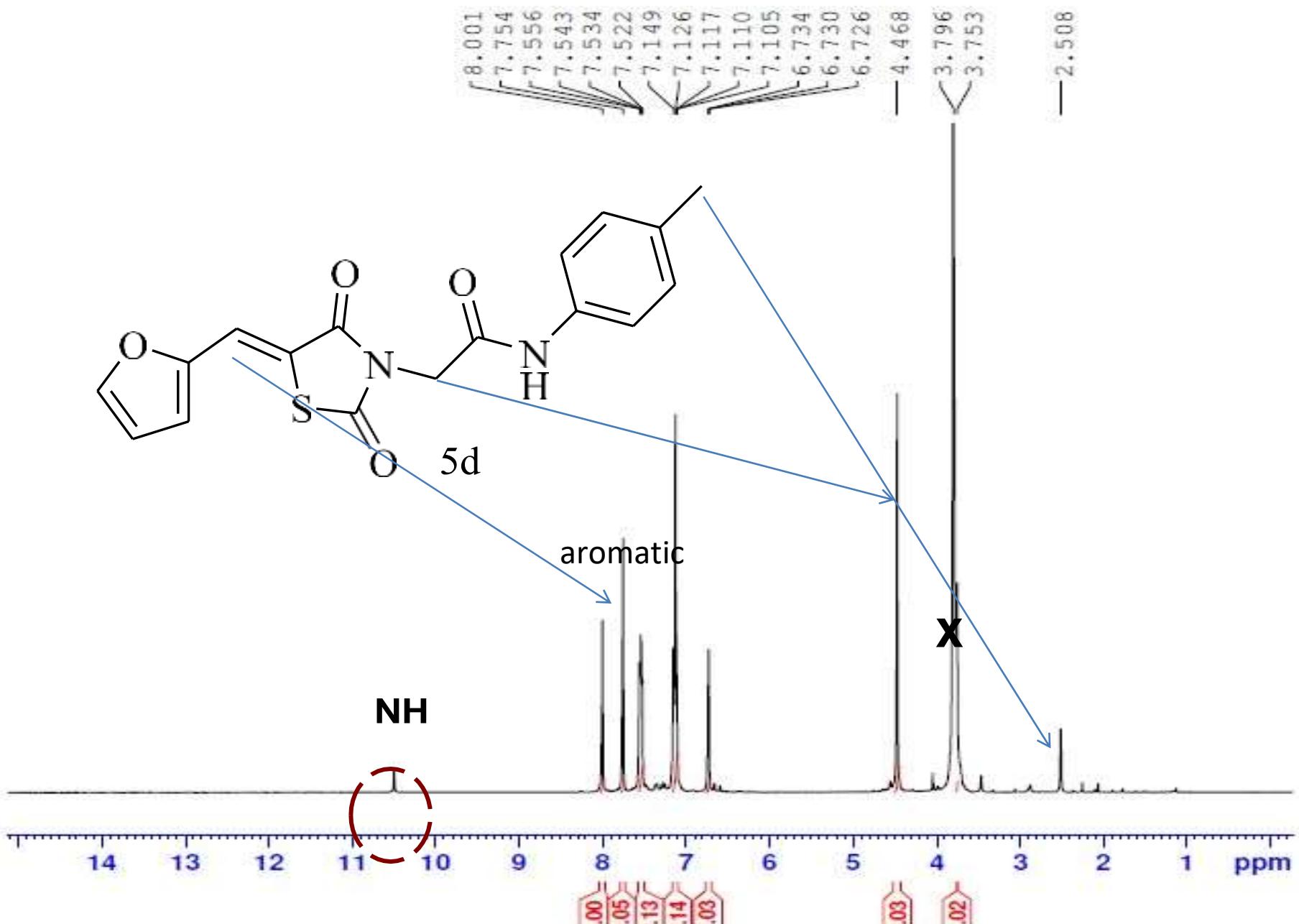




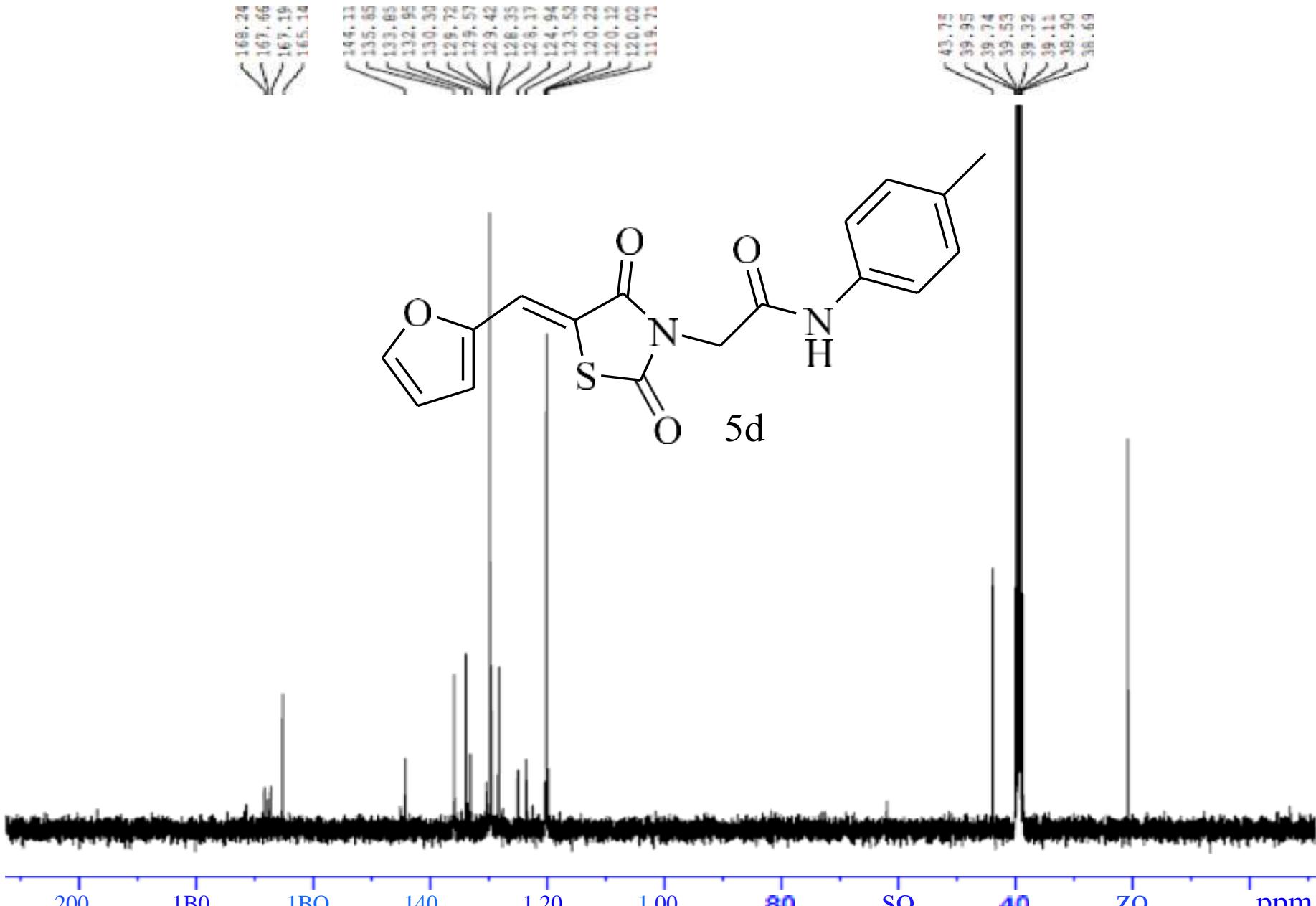
Current Data Parameters
NAME nada-azix-5F-D2O
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20211004
Time 16.32
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usec
DE 6.50 used
TE 300.0 K
D1 1.00000000 sec
TDO 1

CHANNEL f1
SFO1 400.1524711 MHz
NUC1 1H
PI 12.00 used
PLW1 18.00000000 W
F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



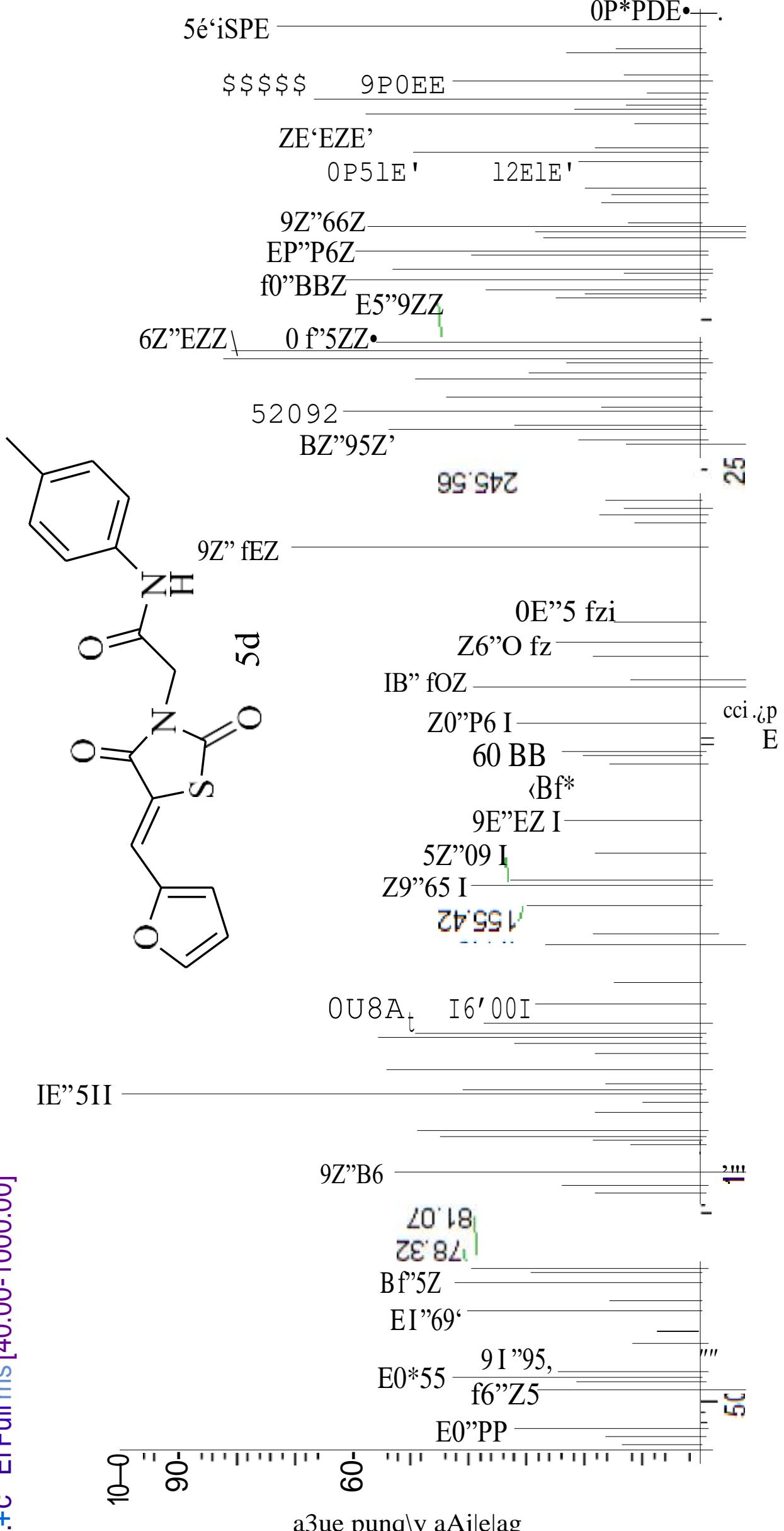
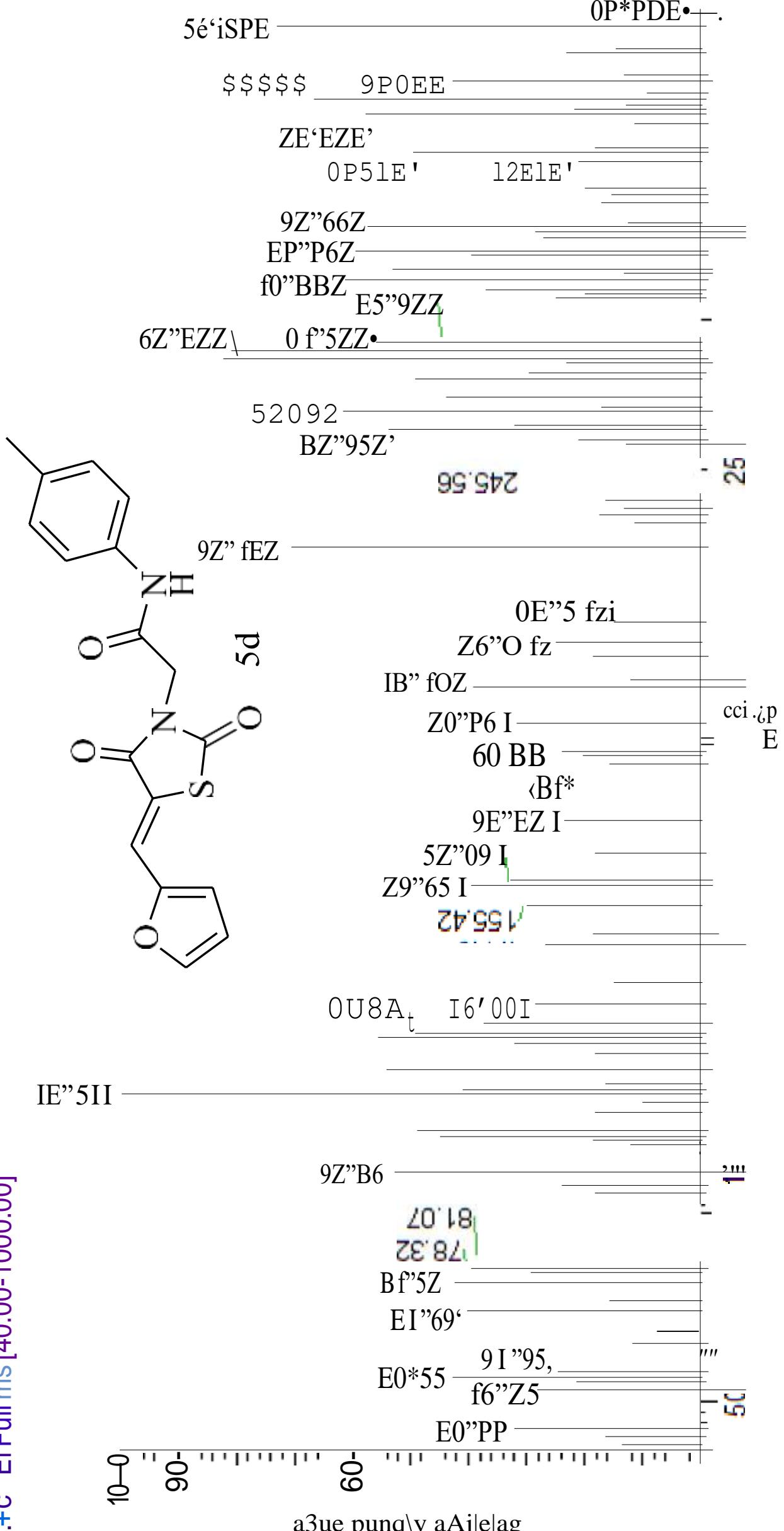
¹H NMR (D₂O) for compound 5d



oate_ JDJL1O31
 IWSTROI spert
 PROBHO B cmx GABBO BB/
 SWH ZS DC B .4 J&I Z
 FIDRES D .E 6 Q GB Z
 RG 205.37
 DW 20.800 used
 TE Z .D D D D D O O O Sec
 OL 0 .D C D D D O O O sec
 OLL TD D 1
 SFO1 100.6278588 AHz
 Pl PI] sL 63. D D D D D O O O w
 SFOJ 400.1516006 AHz
 NUC2 1H
 PCSPOT 9D 00 used
 PLNJ B D D D D D O O O w
 PI] sL3 0 . B LV 5 000 w
 SF 100.6177975 xHa
 SSB 0
 LB I.OO HI
 PC L 4 O

Mass spectra for compound 5d

O ALED-ELAO EL-5 RT. 3.87 AV. 1
T.+c EI Full ms [40.00-1000.00]



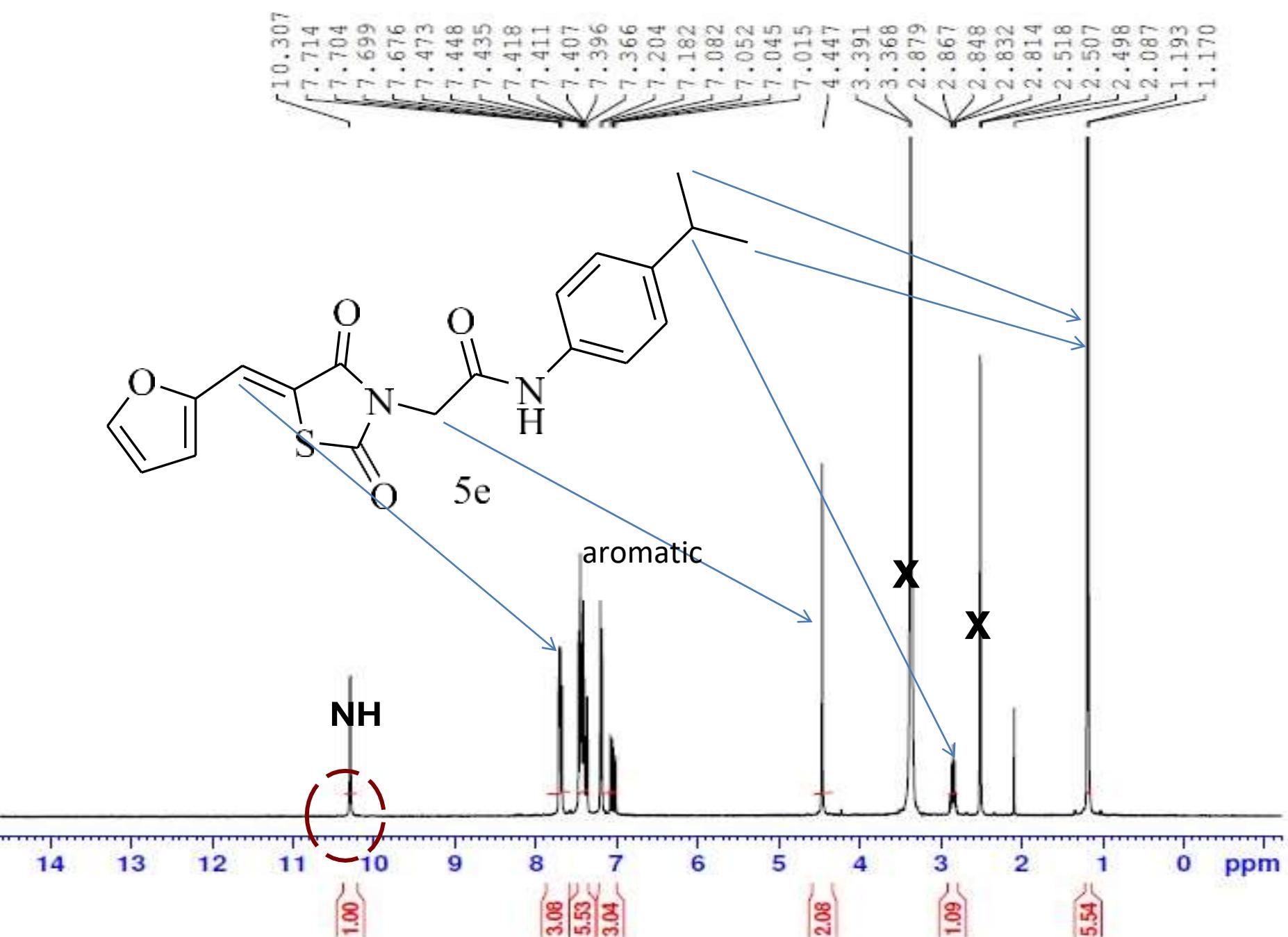


Current Data Parameters
NAME nada-aziz-2F
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date 20211004
Time 14.54
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 44
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.00000000 sec
TDO 1

----- CHANNEL f1 -----
SFO1 400.1524711 MHz
NUC1 1H
P1 12.00 usec
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR for compound 5e

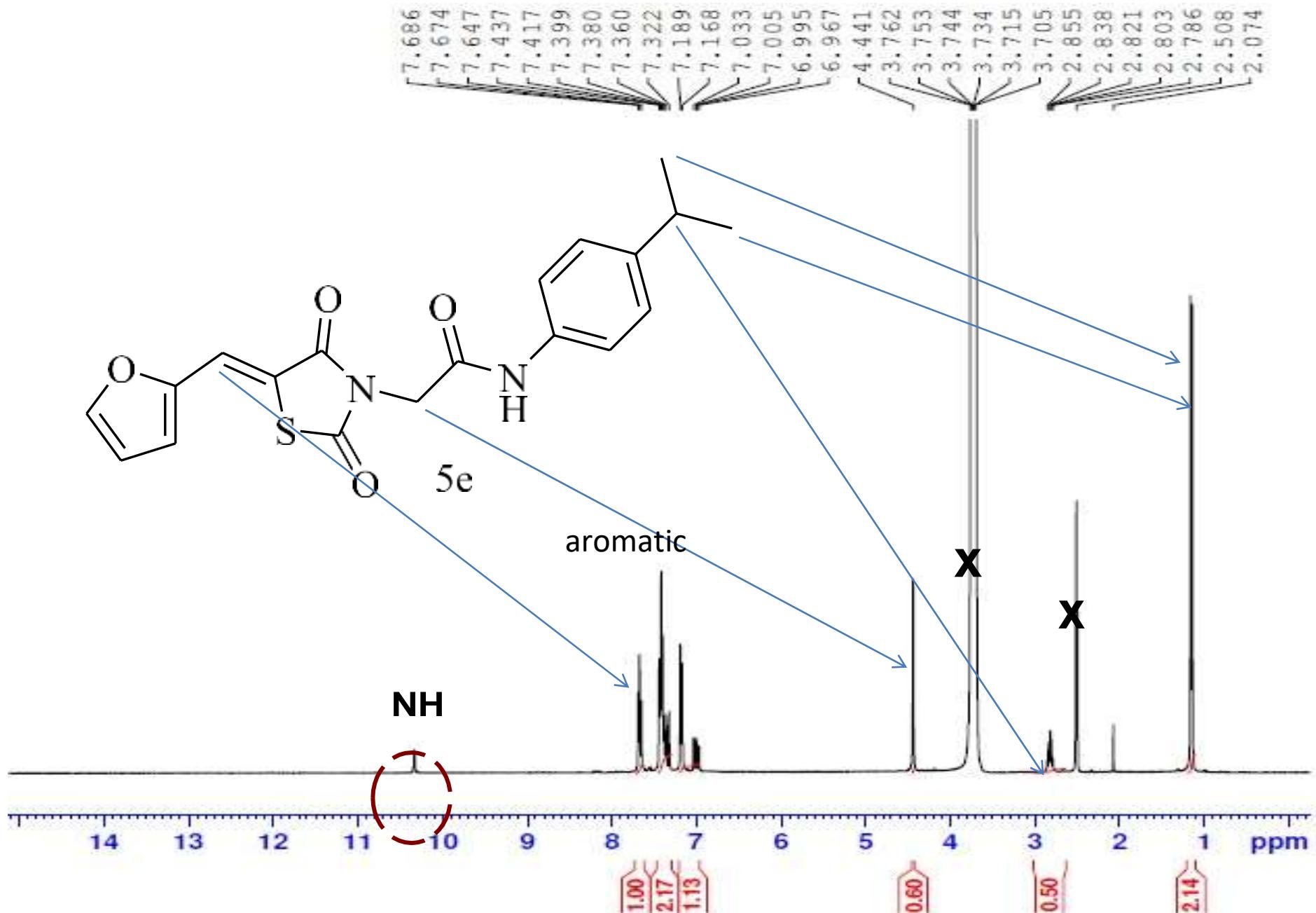


Current Data Parameters
 NAME nada-aziz-2F-d2O
 EXPNO 1
 PROCNO 1

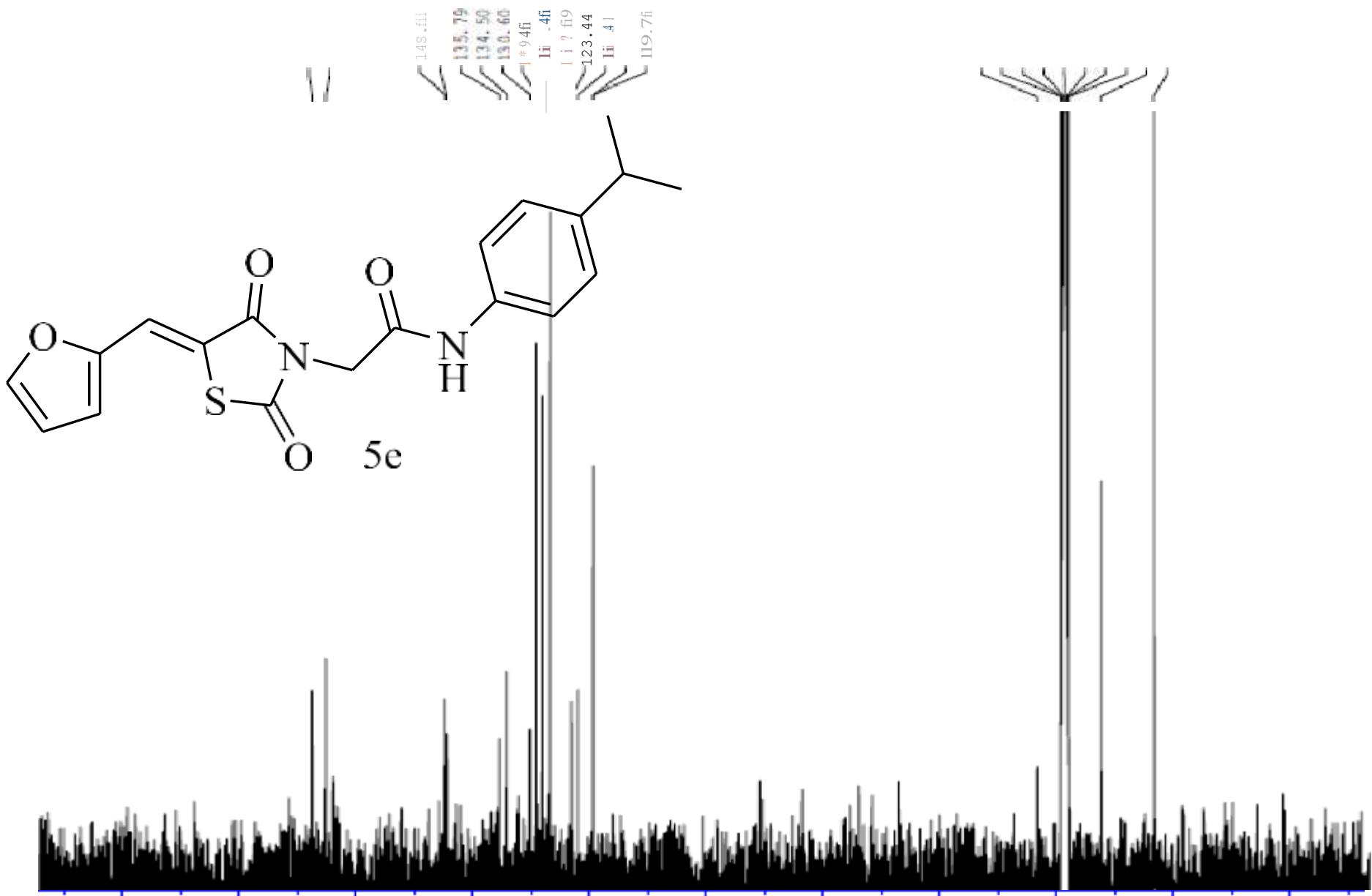
F2 - Acquisition Parameters
 Date_ 20211005
 Time 10.30
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 61
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 205.37
 DW 62.400 usec
 DE 6.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 TDO 1

----- CHANNEL f1 -----
 SF01 400.1524711 MHz
 NUC1 1H
 PI 12.00 usec
 PLW1 18.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1500000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



¹H NMR (D₂O) for compound 5e



¹³C NMR for compound 5e

oaA_ 2 DC L LI O2

PROBHD 5 mm PABBO BB/
PULPROG zgpg30

NS 4017

EH FIDRES Z & DC B 46 I Hz
D Z 6 6T PB Hz

RG DW 205.37
20.800 used

TE 0 L Z DO 0 K
0. DLL 0.DCD DDOO rec
T DD 0.DCD DDOO sec

NUC1 13C
P1 LD DD uaec
PIml 4 T . D D D D D O O O W

NUC2] H
PCPO 2 9 D 00
PLW2 B D D D D D O O O used
PLW12 0.34722000 W

sF 100.6177975 MHz

LB L.OO z

PC L d O

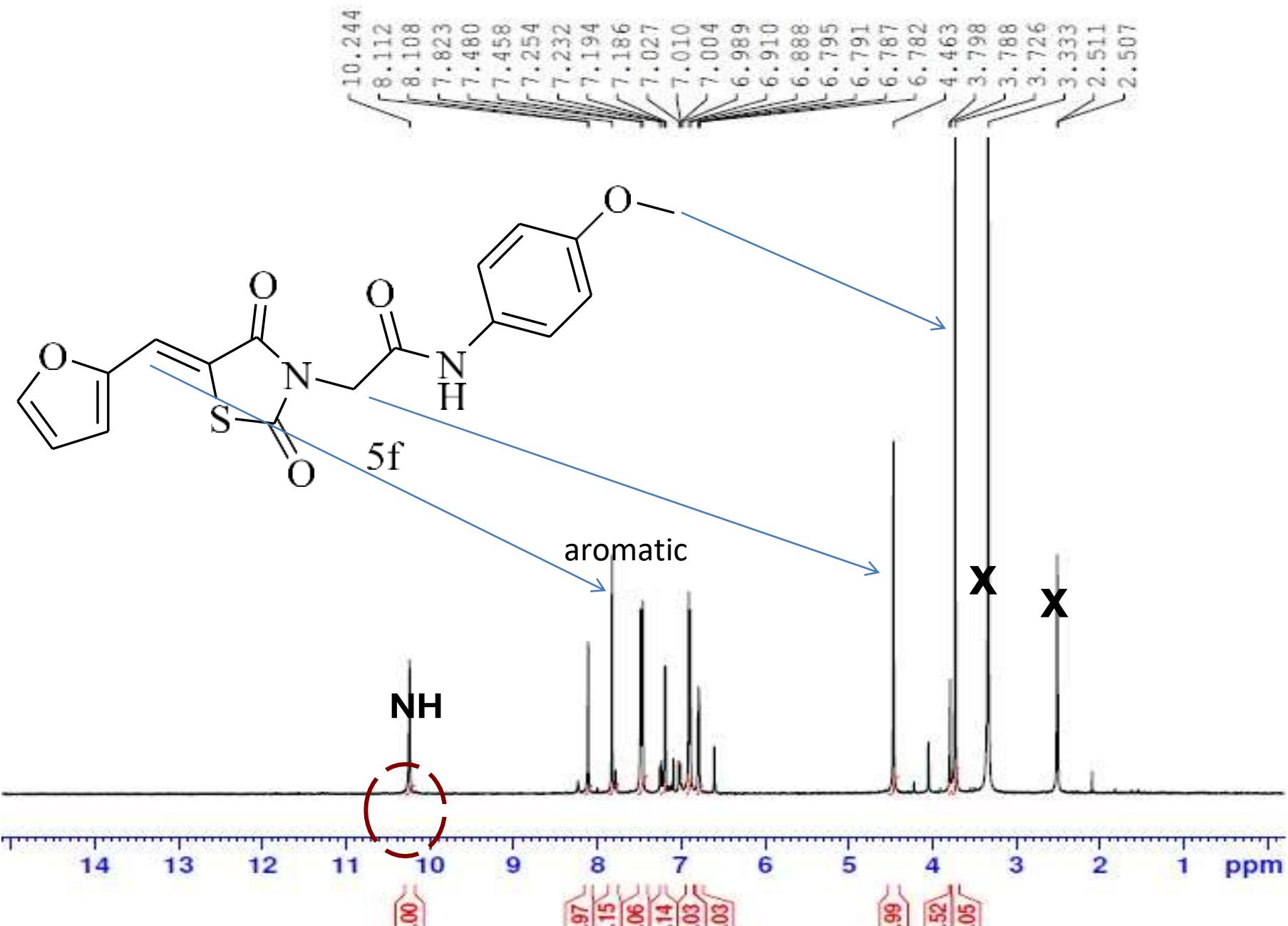


Current Data Parameters
NAME nada-ahmed-4f
EXPNO 1
PROCNO 1

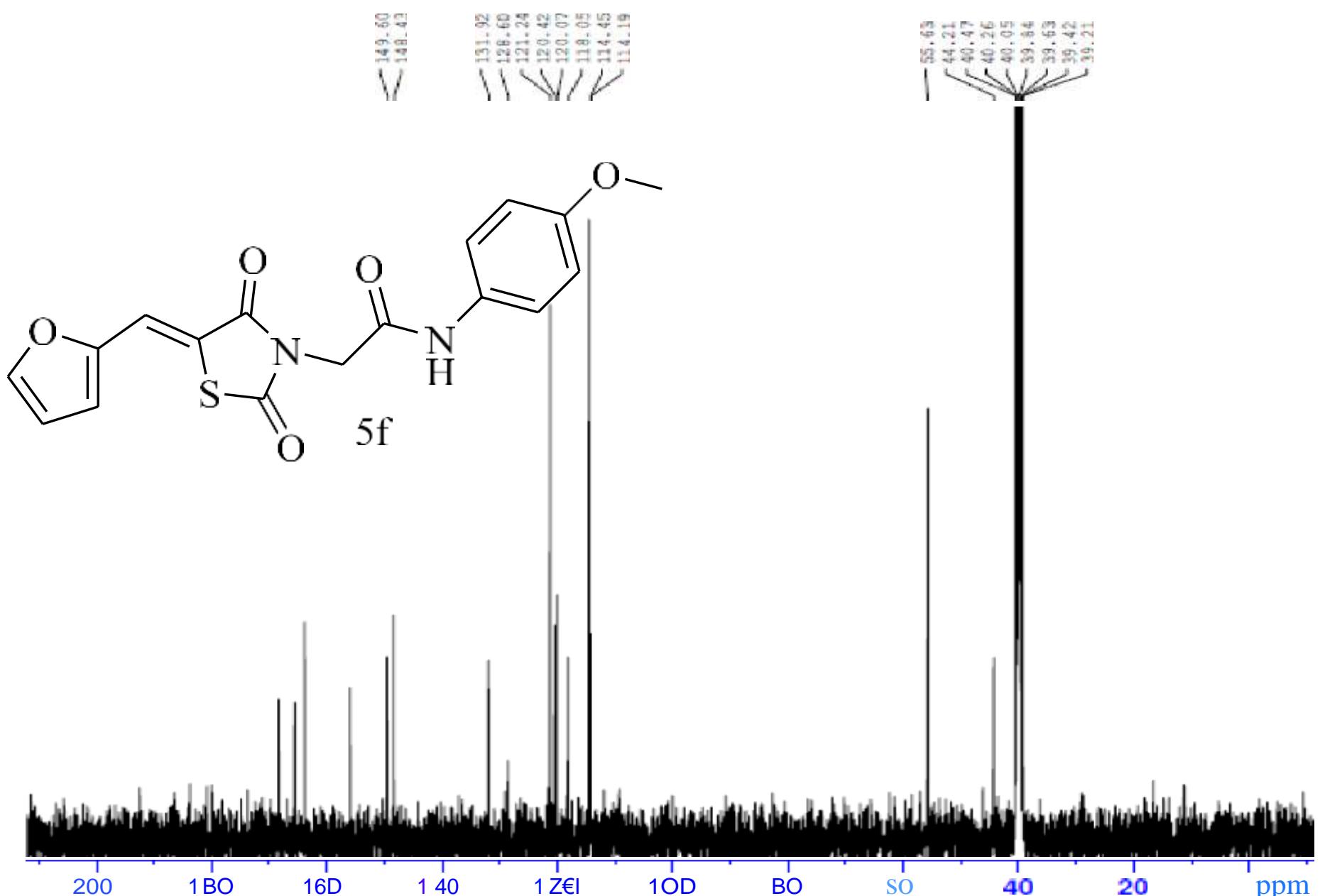
F2 - Acquisition Parameters
Date_ 20210906
Time 16.00
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 11
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 205.37
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

----- CHANNEL f1 -----
SF01 400.1524711 MHz
NUC1 1H
P1 12.00 usec
PLW1 18.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1500000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



¹H NMR for compound 5f



te
cl

oate_ 2D21D920

PROBHD 5 mm PARBO BB/
PULPROG zgpg30
TO 65s36

NS L141

SRH 240381.461 1:[z
FIOR1Efl 0.366798 Hz
RG 1.3631488 sec
DW 205.37
Os 20.800 usec
TE 6.50 usec
OL 300.0 Hz
DL 2.00000000 sec
T0 D 0.03000000 sec
I

CH HbFRL I L -----
SF01 100.627B5BB BHx
NUC1 zze
PL LD OD usec
PUel 41. D D D D D OOO W

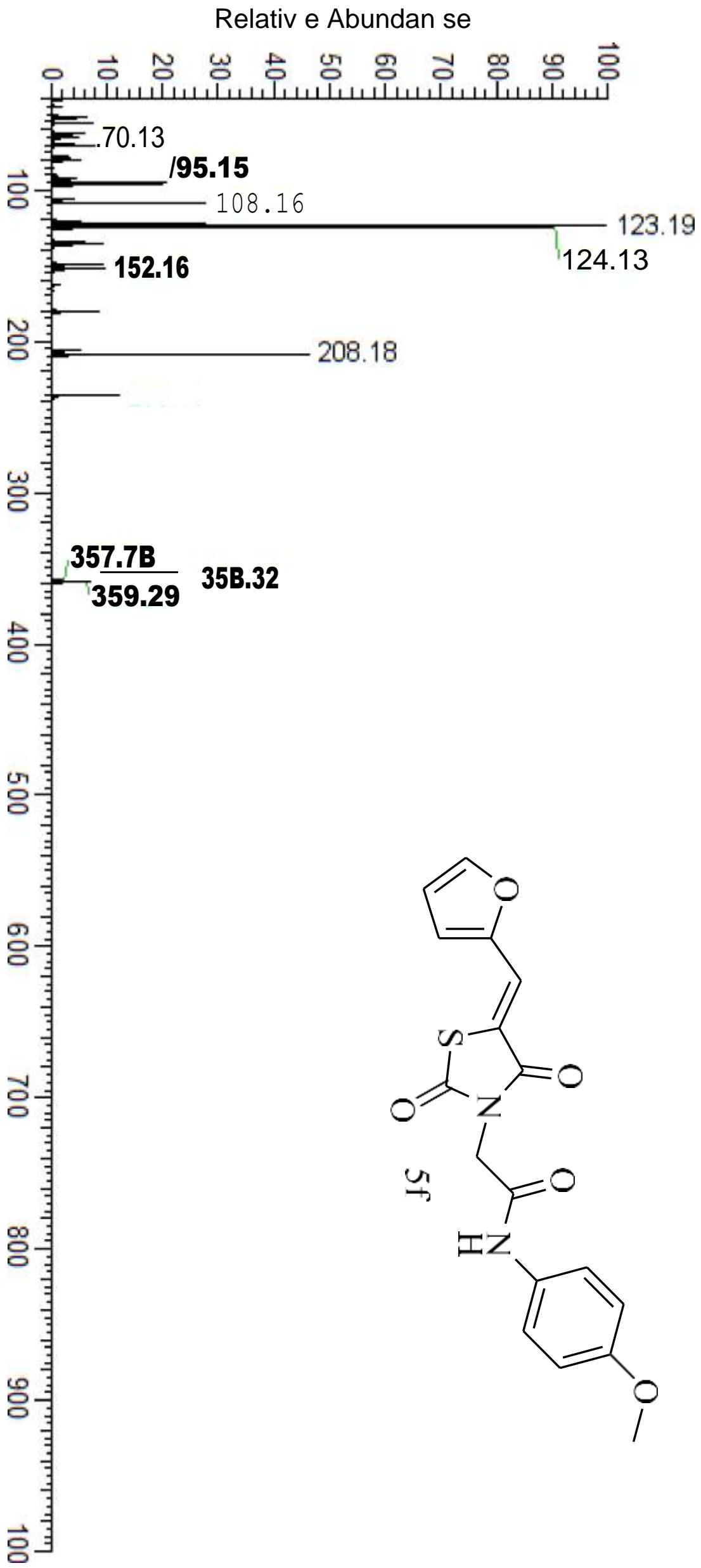
IE) hWNRL I'2 -----
SF03 0D0.L5L6006 BHz
NUC2 1H
CPOPRG[S waltz16
PCPOT 9 D OD usec
PL]02 B D D D D D OOO W

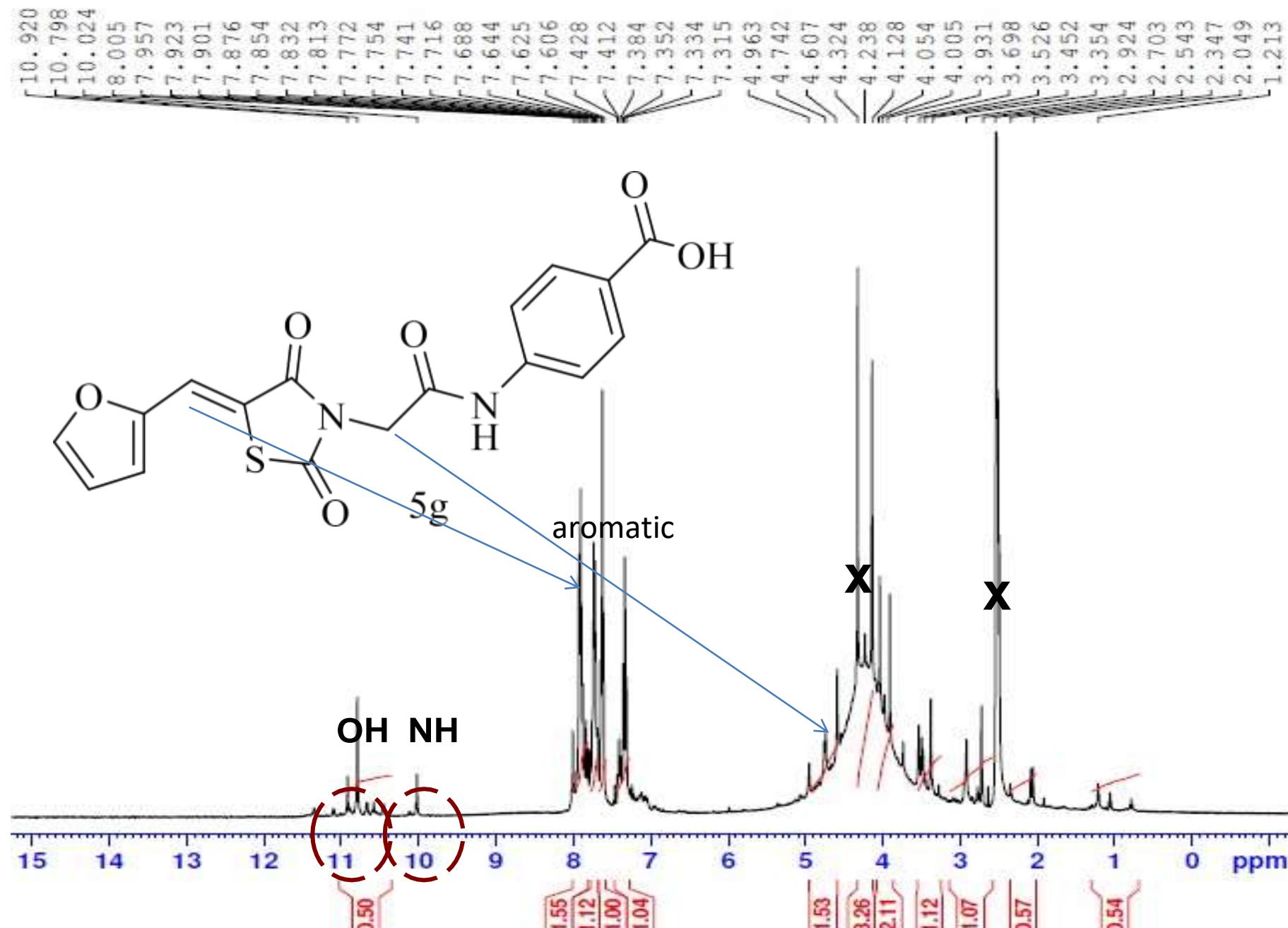
PLW13 0.28125000 W

SF 100.6177975 MHz

LB I.OO E[z

PC L-AO





¹H NMR for compound 5g

Current Data Parameters
 NAME nada-aziz-7R
 EXPNO 1
 PROCNO 1

F2 – Acquisition Parameters
 Date 20211004
 Time 14.08
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 42
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 205.37
 DW 62.400 usec
 DE 6.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 TDO 1

----- CHANNEL f1 -----
 SFO1 400.1524711 MHz
 NUC1 1H
 P1 12.00 usec
 PLW1 18.00000000 W

F2 – Processing parameters
 SI 65536
 SF 400.1500000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00