

Supporting Information

New role of phenothiazine derivatives as peripherally acting CB1 receptor antagonizing anti-obesity agents

Mayank Kumar Sharma, Jatin Machhi, Prashant Murumkar, Mange Ram Yadav*

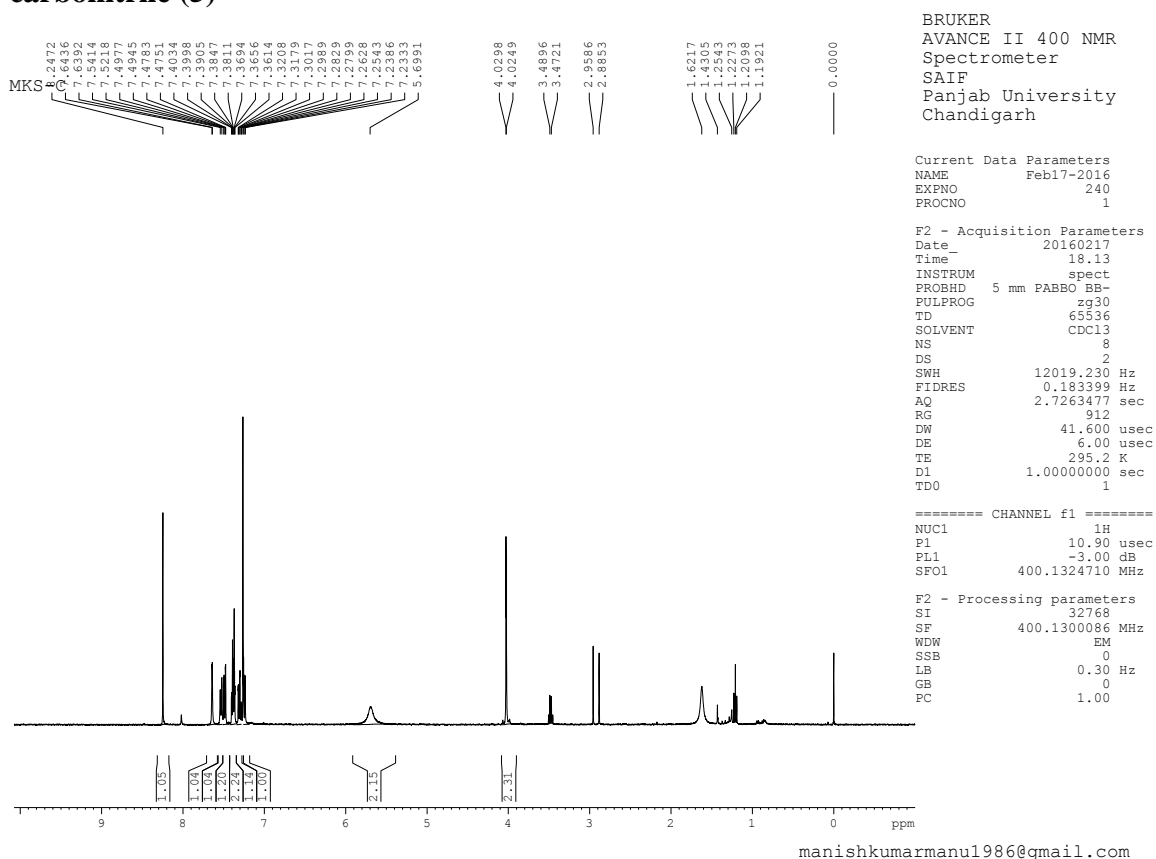
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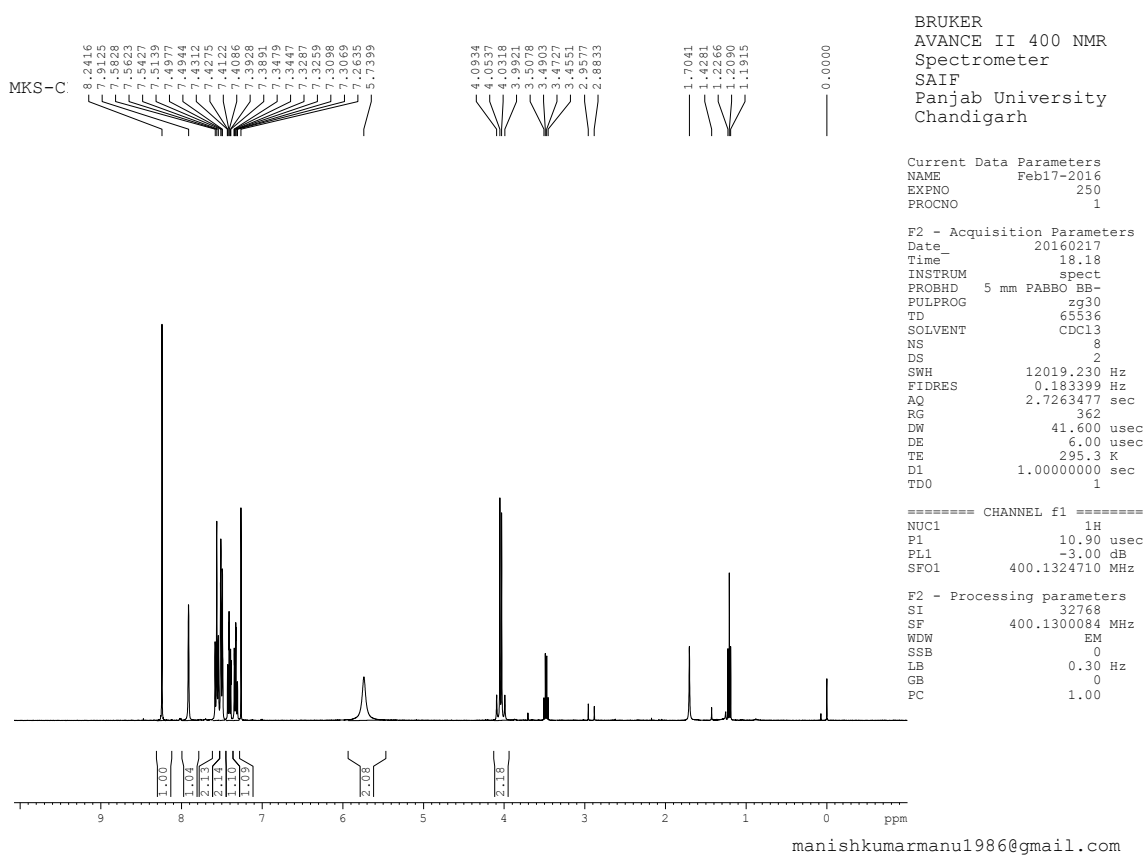
¹ H NMR Spectra.....	S2
¹³ C NMR Spectra.....	S14

¹H-NMR Spectra.

4-Amino-2-(2-(2-trifluoromethyl-10H-phenothiazin-10-yl)-2-oxoethylthio)pyrimidine-5-carbonitrile (5)

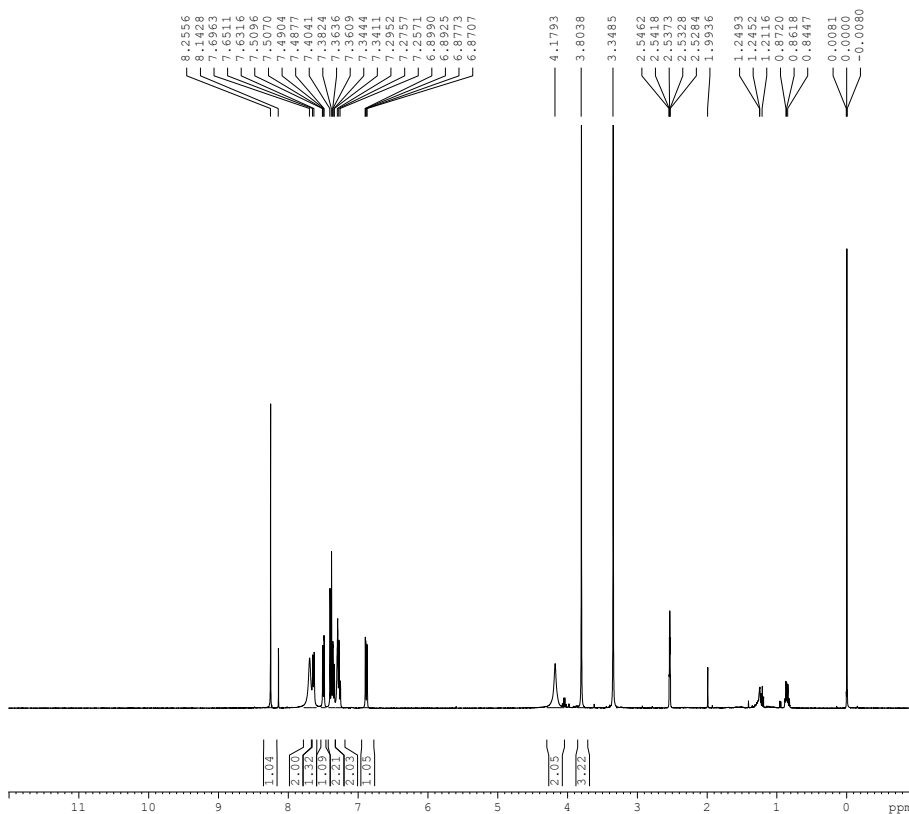


4-Amino-2-(2-(2-chloro-10H-phenothiazin-10-yl)-2-oxoethylthio)pyrimidine-5-carbonitrile (22)



4-Amino-2-(2-(2-methoxy-10H-phenothiazin-10-yl)-2-oxoethylthio)pyrimidine-5-carbonitrile (23)

MKS3



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Mar09-2016
EXPNO 270
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160309
Time_ 20.42
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 287
DW 41.600 usec
DE 6.00 usec
TE 294.5 K
D1 1.00000000 sec
TD0 1

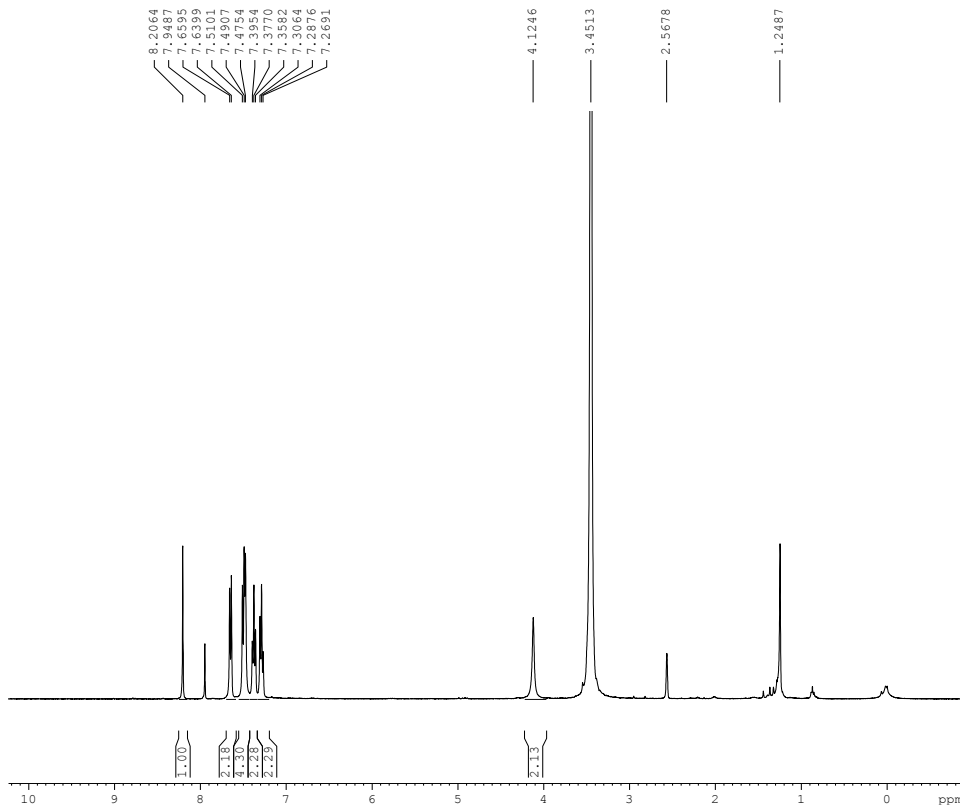
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PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1299888 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

manishkumarmanu1986@gmail.com

4-Amino-2-(2-oxo-2-(10H-phenothiazin-10-yl)ethylthio)pyrimidine-5-carbonitrile (24)

MKS 04



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Sep14-2016
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160914
Time_ 16.37
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 161
DW 41.600 usec
DE 6.00 usec
TE 297.2 K
D1 1.00000000 sec
TD0 1

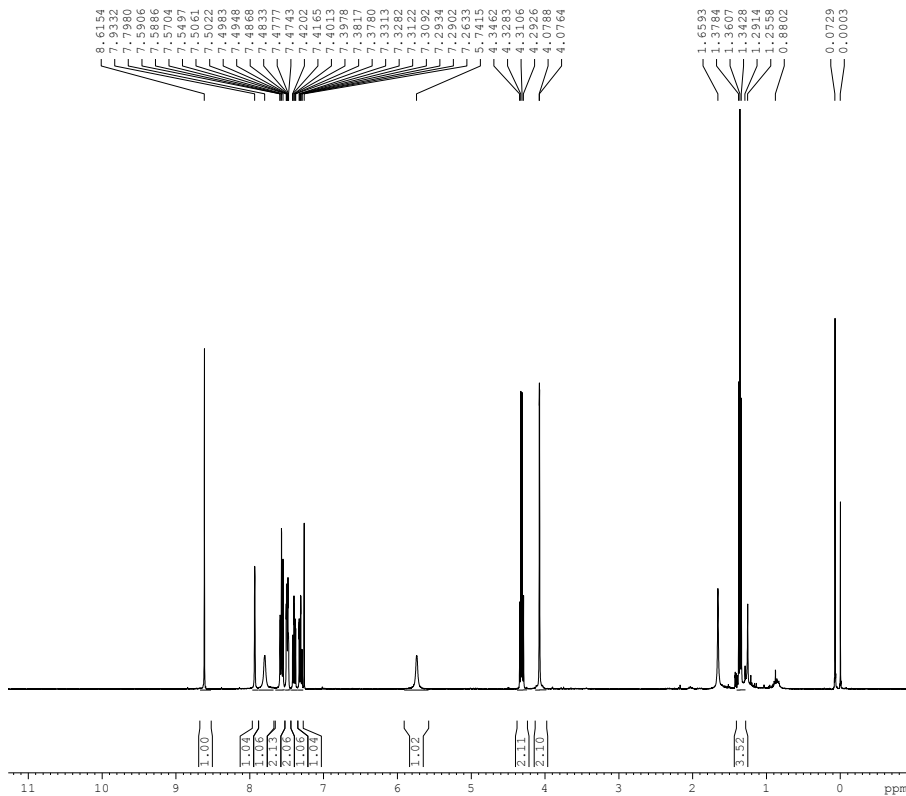
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PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1299765 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

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Ethyl 4-amino-2-(2-(2-trifluoromethyl-10H-phenothiazin-10-yl)-2-oxoethylthio)pyrimidine-5-carboxylate (25)

MKS 17



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Aug09-2016
EXPNO 270
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160810
Time 10.12
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 645
DW 41.600 usec
DE 6.00 usec
TE 297.2 K
D1 1.00000000 sec
TD0 1

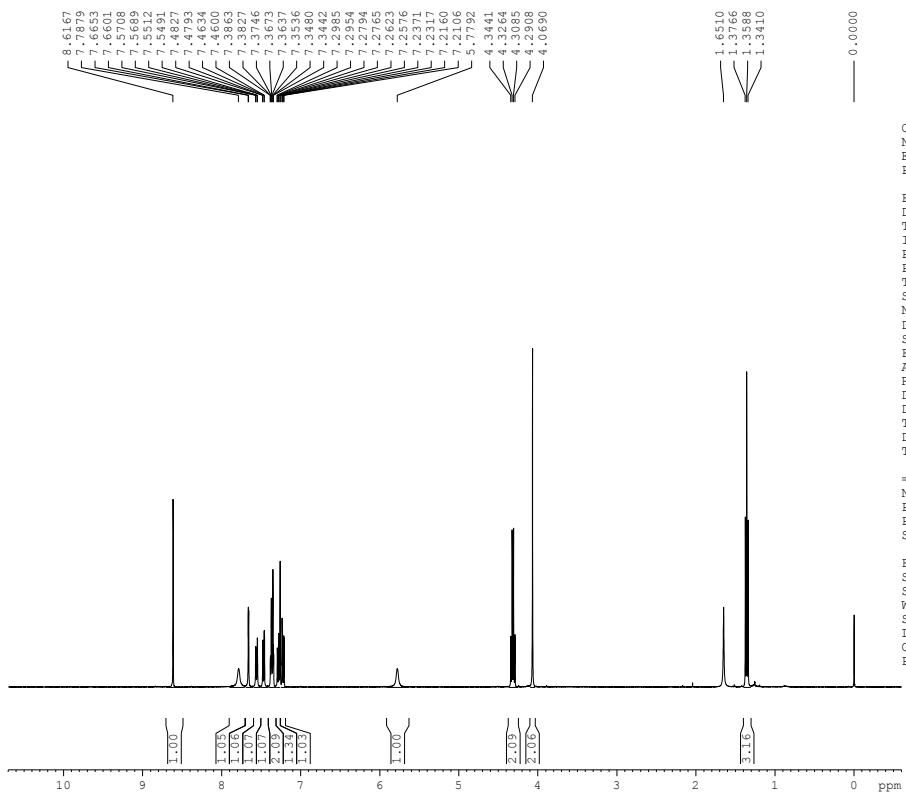
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P1 10.90 usec
PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300085 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

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Ethyl 4-amino-2-(2-(2-chloro-10H-phenothiazin-10-yl)-2-oxoethylthio)pyrimidine-5-carboxylate (26)

MKS 11



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Jul11-2016
EXPNO 230
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160711
Time 18.21
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 812
DW 41.600 usec
DE 6.00 usec
TE 298.3 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
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P1 10.90 usec
PL1 -3.00 dB
SFO1 400.1324710 MHz

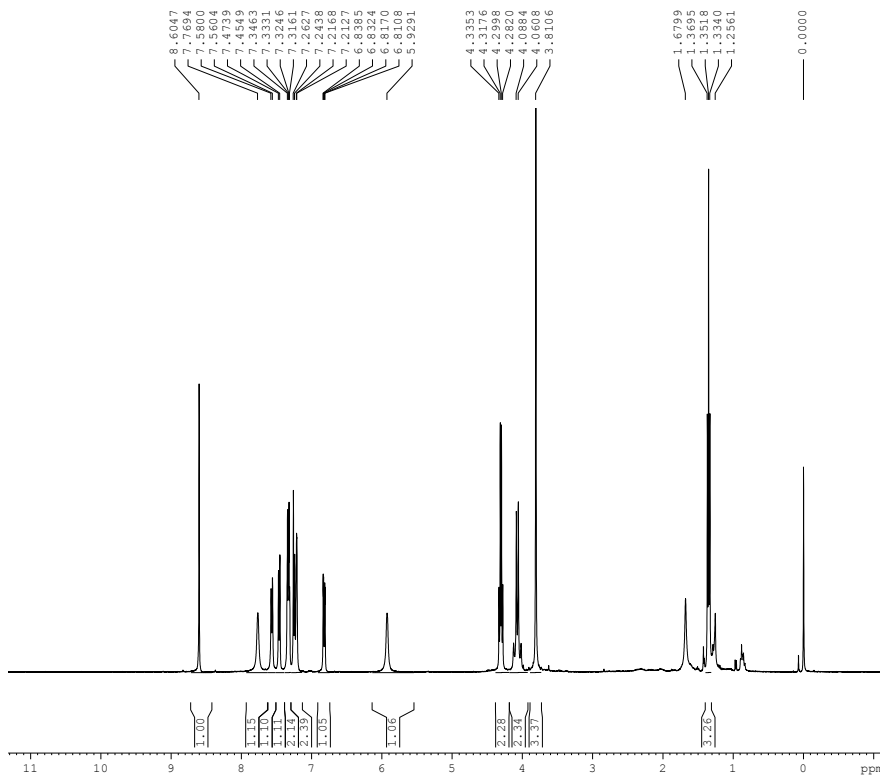
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SF 400.1300087 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

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**Ethyl
carboxylate (27)**

MKS16

4-amino-2-(2-(2-methoxy-10H-phenothiazin-10-yl)-2-oxoethylthio)pyrimidine-5-



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Nov29-2016
EXPNO 220
PROCNO 1

F2 - Acquisition Parameters
Date_ 20161129
Time_ 14.23
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 322
DW 41.600 usec
DE 6.00 usec
TE 298.1 K
D1 1.00000000 sec
TDO 1

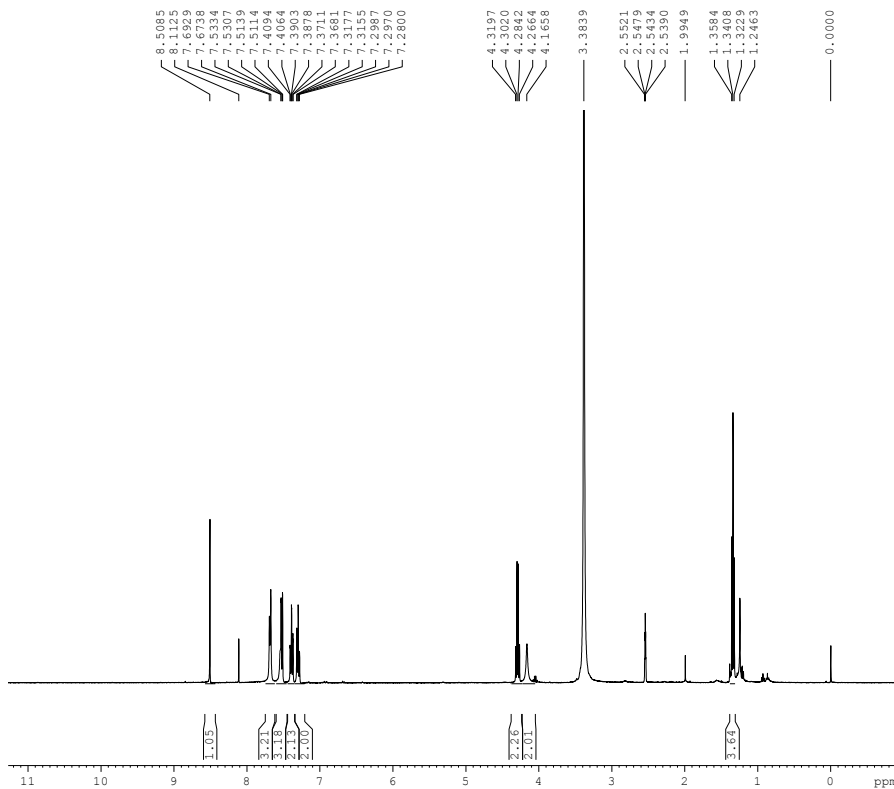
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PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300083 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

manishkumarmanu1986@gmail.com

Ethyl 4-amino-2-(2-oxo-2-(10H-phenothiazin-10-yl)ethylthio)pyrimidine-5-carboxylate (28)

MKS 15



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Aug09-2016
EXPNO 260
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160810
Time_ 10.06
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 456
DW 41.600 usec
DE 6.00 usec
TE 297.2 K
D1 1.00000000 sec
TDO 1

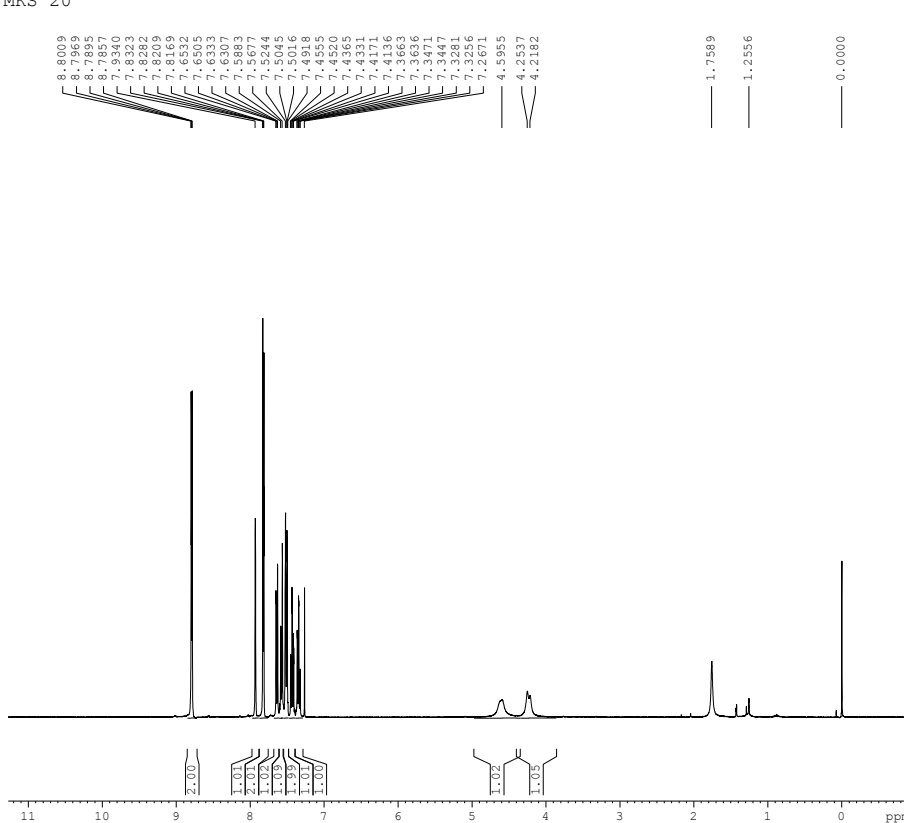
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P1 10.90 usec
PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1299867 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

manishkumarmanu1986@gmail.com

2-(5-(4-pyridyl)-1,3,4-oxadiazol-2-ylthio)-1-(2-trifluoromethyl-10H-phenothiazin-10-yl)ethanone (29)

MKS 20



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Aug09-2016
EXPNO 300
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160810
Time 10.31
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 645
DW 41.600 usec
DE 6.00 usec
TE 297.2 K
D1 1.00000000 sec
TD0 1

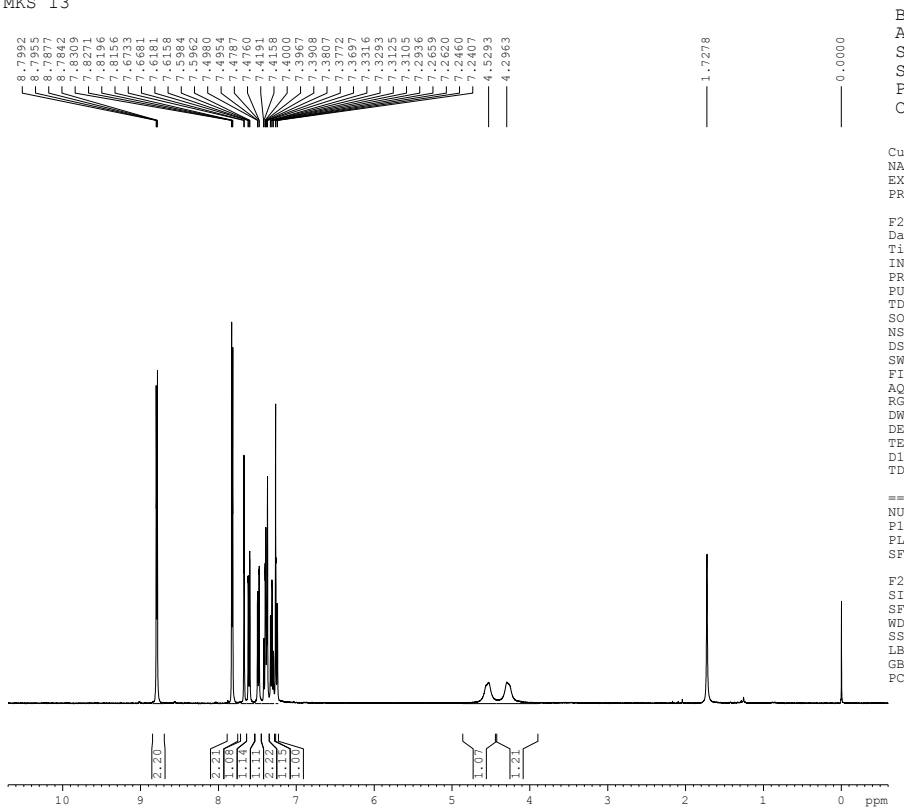
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NUC1 1H
P1 10.90 usec
PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300068 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

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1-(2-Chloro-10H-phenothiazin-10-yl)-2-(5-(4-pyridyl)-1,3,4-oxadiazol-2-ylthio)ethanone (30)

MKS 13



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Jul11-2016
EXPNO 250
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160711
Time 18.32
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 812
DW 41.600 usec
DE 6.00 usec
TE 298.8 K
D1 1.00000000 sec
TD0 1

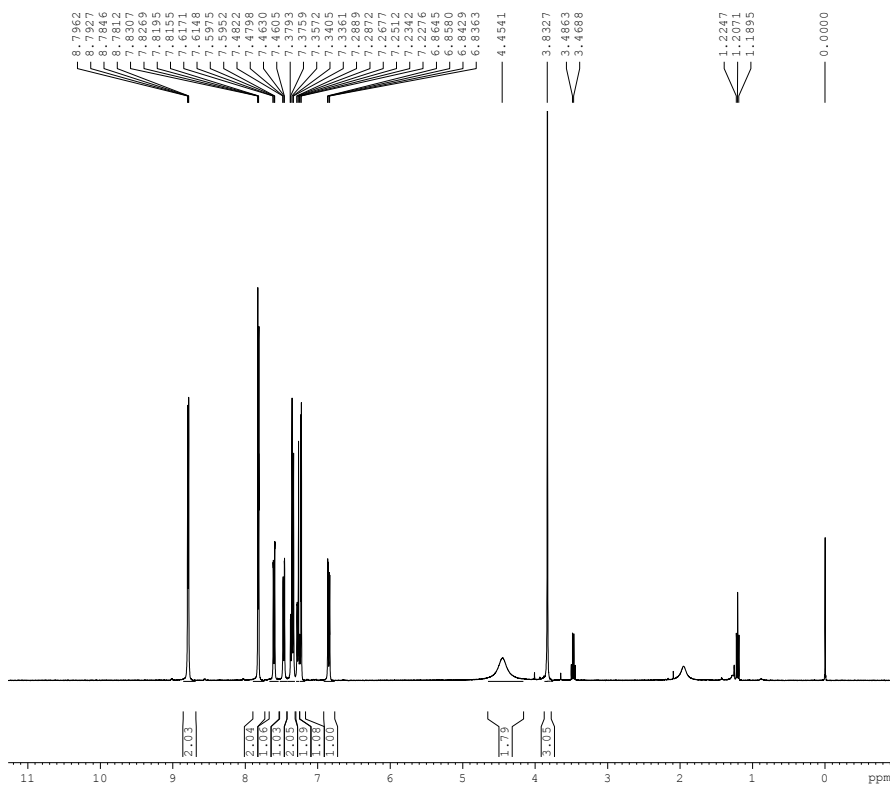
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SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300074 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

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1-(2-Methoxy-10H-phenothiazin-10-yl)-2-(5-(4-pyridyl)-1,3,4-oxadiazol-2-ylthio)ethanone (31)

MKS 19



BRUKER
 AVANCE II 400 NMR
 Spectrometer
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Current Data Parameters
 NAME Aug09-2016
 EXPNO 290
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20160810
 Time_ 10.25
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 575
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 DE 6.00 usec
 TE 297.2 K
 D1 1.00000000 sec
 TDO 1

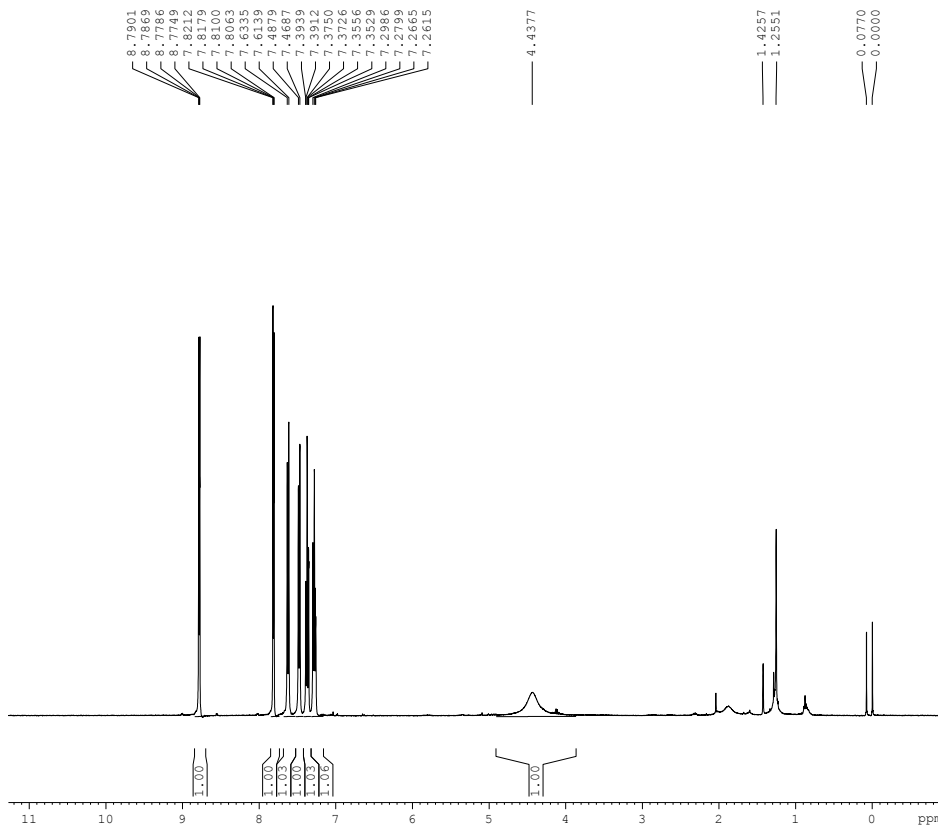
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 PL1 -3.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
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 SF 400.1300067 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

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1-(10H-phenothiazin-10-yl)-2-(5-(4-pyridyl)-1,3,4-oxadiazol-2-ylthio)ethanone (32)

MKS 18



BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh

Current Data Parameters
 NAME Aug09-2016
 EXPNO 280
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20160810
 Time_ 10.20
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 512
 DW 41.600 usec
 DE 6.00 usec
 TE 297.2 K
 D1 1.00000000 sec
 TDO 1

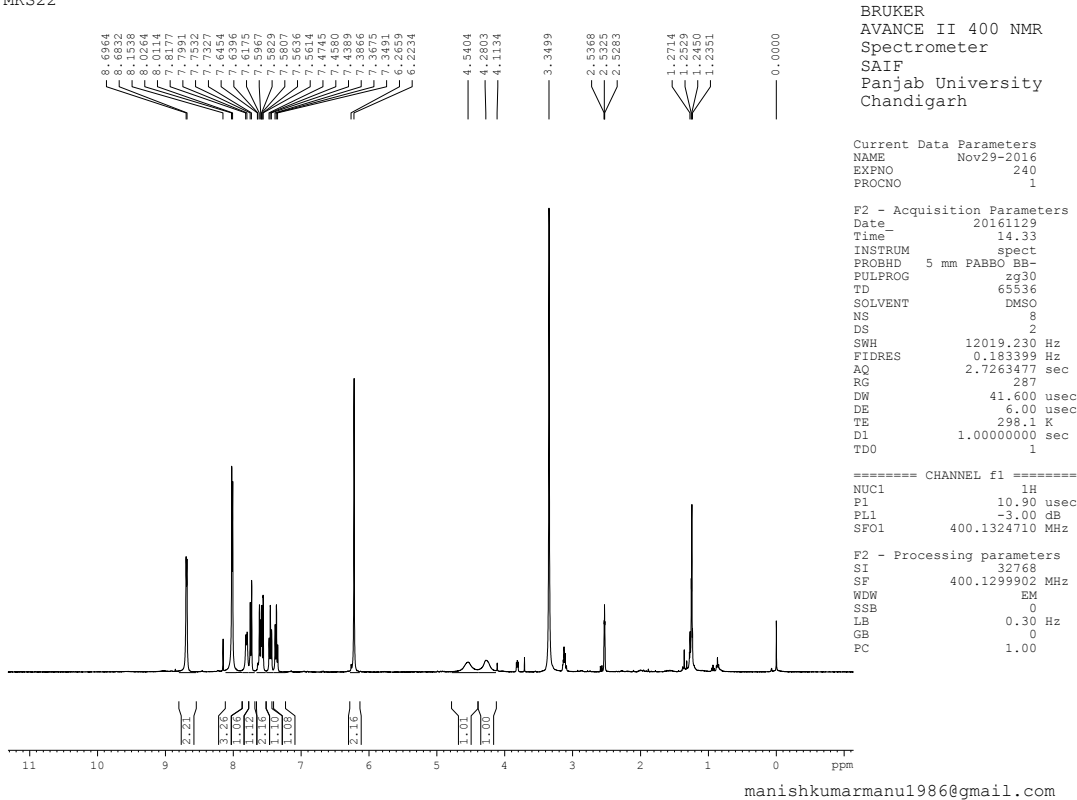
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 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300070 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

manishkumarmanu1986@gmail.com

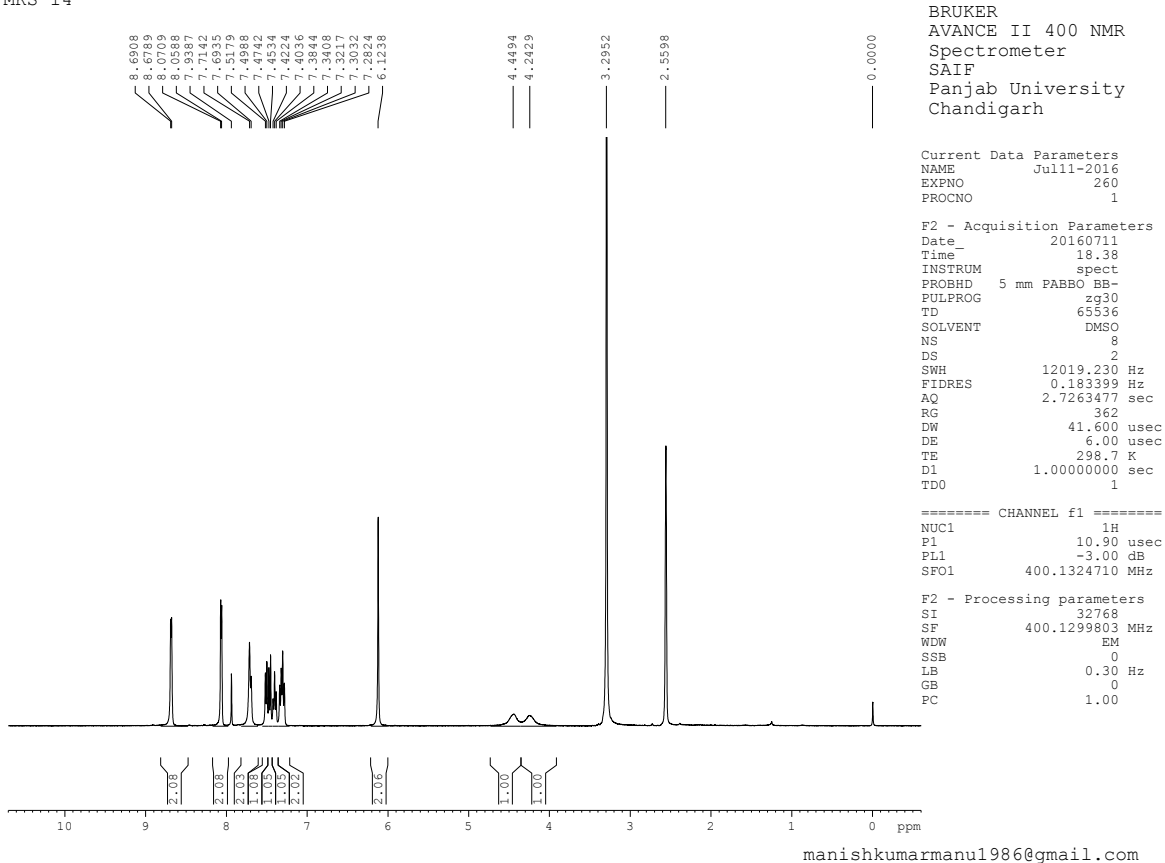
2-(4-Amino-5-(4-pyridyl)-4H-1,2,4-triazol-3-ylthio)-1-(2-(trifluoromethyl)-10H-phenothiazin-10-yl)ethanone (33)

MKS22



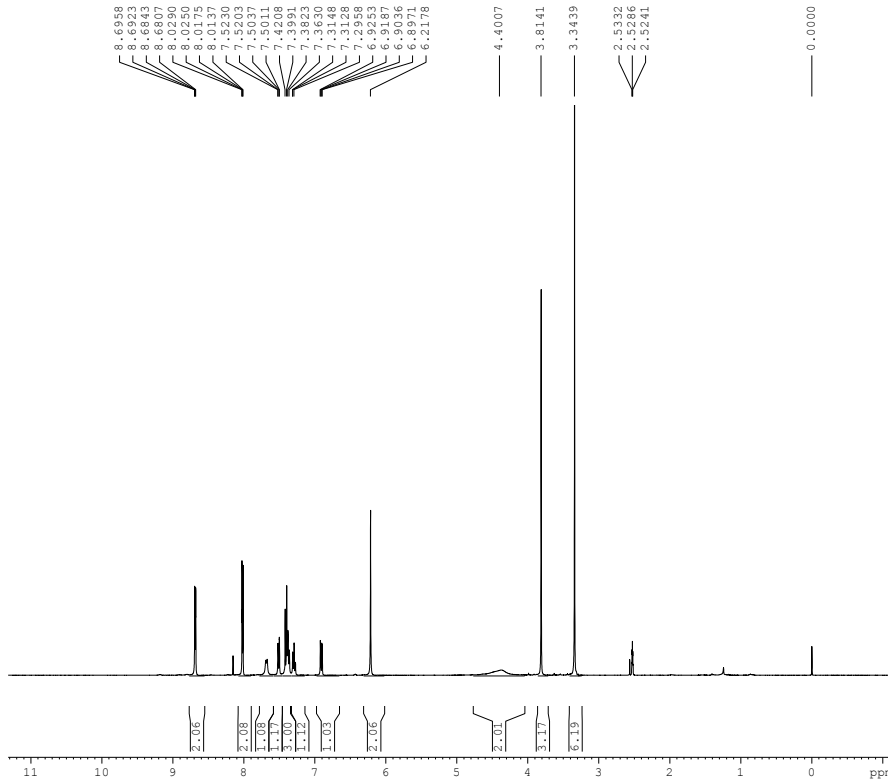
2-(4-Amino-5-(4-pyridyl)-4H-1,2,4-triazol-3-ylthio)-1-(2-chloro-10H-phenothiazin-10-yl)ethanone (34)

MKS 14



2-(4-Amino-5-(4-pyridyl)-4H-1,2,4-triazol-3-ylthio)-1-(2-methoxy-10H-phenothiazin-10-yl)ethanone (35)

MKS21



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Nov29-2016
EXPNO 230
PROCNO 1

F2 - Acquisition Parameters
Date_ 20161129
Time_ 14.28
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 256
DW 41.600 usec
DE 6.00 usec
TE 298.1 K
D1 1.00000000 sec
TD0 1

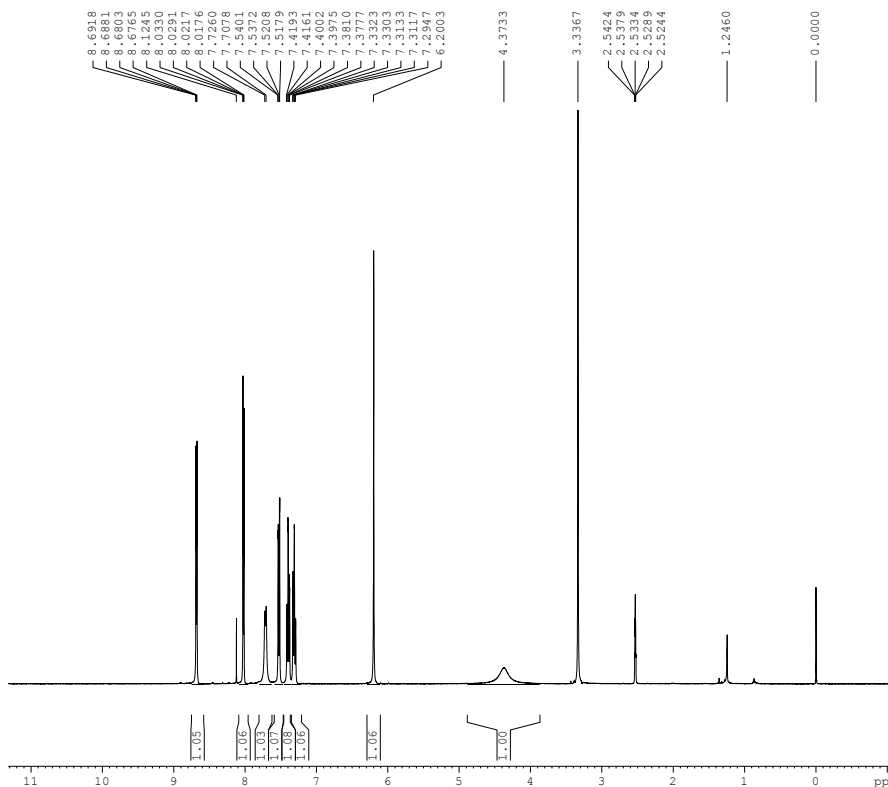
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P1 10.90 usec
PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1299918 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

manishkumarmanu1986@gmail.com

2-(4-Amino-5-(4-pyridyl)-4H-1,2,4-triazol-3-ylthio)-1-(10H-phenothiazin-10-yl)ethanone (36)

MKS23



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Nov29-2016
EXPNO 250
PROCNO 1

F2 - Acquisition Parameters
Date_ 20161129
Time_ 14.38
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 322
DW 41.600 usec
DE 6.00 usec
TE 298.1 K
D1 1.00000000 sec
TD0 1

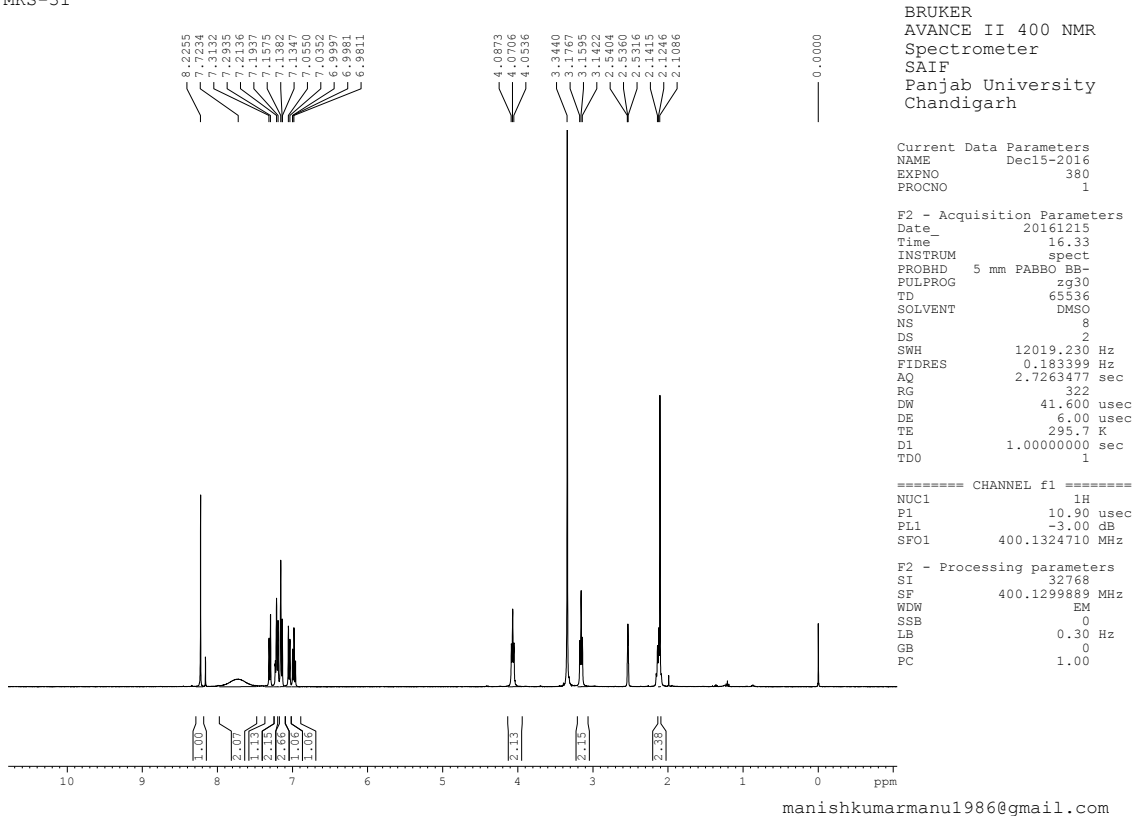
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P1 10.90 usec
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SFO1 400.1324710 MHz

F2 - Processing parameters
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WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

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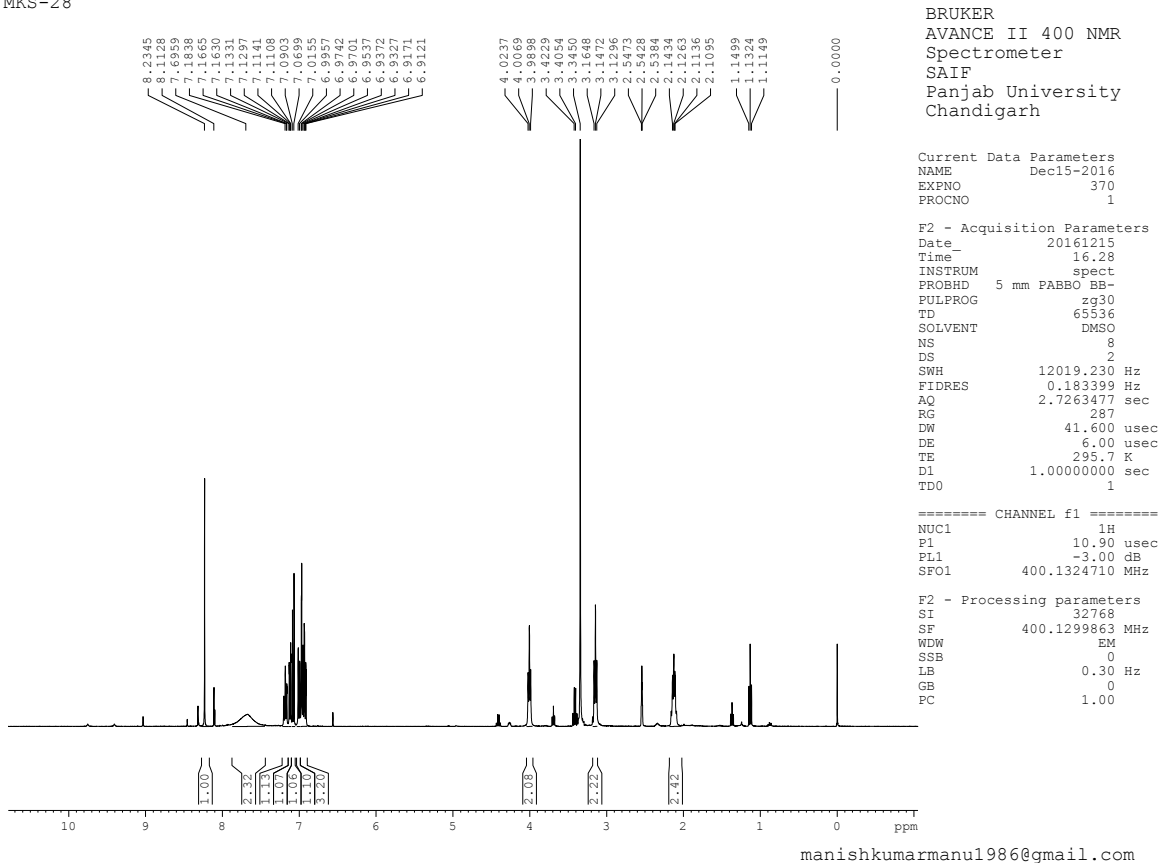
4-Amino-2-(3-(2-trifluoromethyl-10H-phenothiazin-10-yl)propylthio)pyrimidine-5-carbonitrile (42)

MKS-31



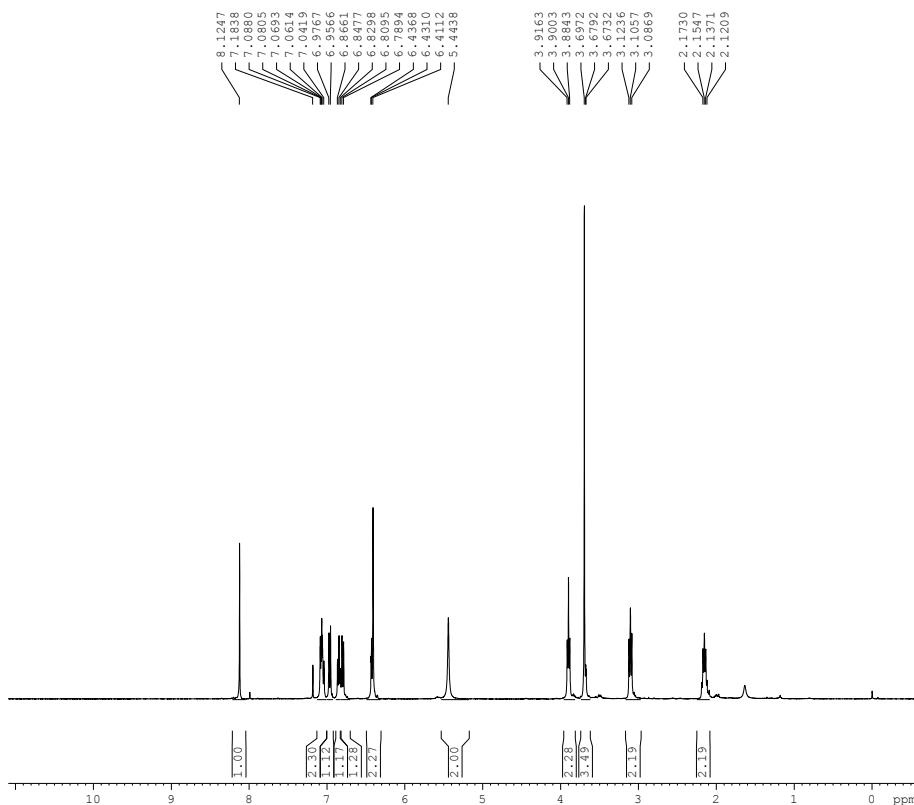
4-Amino-2-(3-(2-chloro-10H-phenothiazin-10-yl)propylthio)pyrimidine-5-carbonitrile (43)

MKS-28



4-Amino-2-(3-(2-methoxy-10H-phenothiazin-10-yl)propylthio)pyrimidine-5-carbonitrile (44)

MKS-30



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Dec08-2016
EXPNO 80
PROCNO 1

F2 - Acquisition Parameters
Date_ 20161208
Time_ 17.15
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 406
DW 41.600 usec
DE 6.00 usec
TE 296.7 K
D1 1.00000000 sec
TD0 1

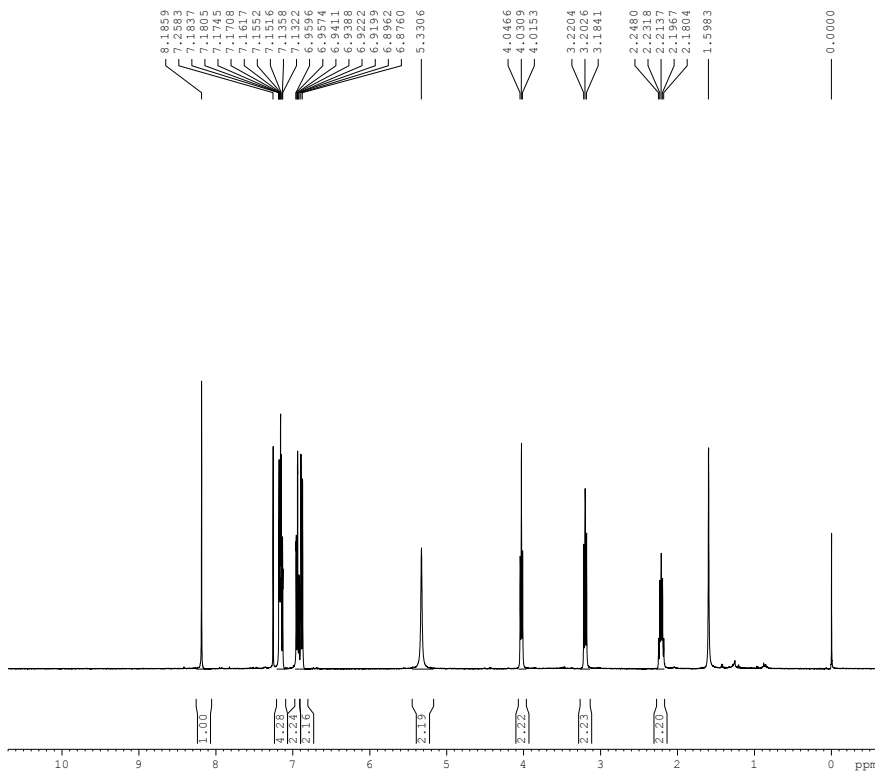
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P1 10.90 usec
PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300399 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

manishkumarmanu1986@gmail.com

4-Amino-2-(3-(10H-phenothiazin-10-yl)propylthio)pyrimidine-5-carbonitrile (45)

MKS 12



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Jul11-2016
EXPNO 240
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160711
Time_ 18.27
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 456
DW 41.600 usec
DE 6.00 usec
TE 298.8 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
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P1 10.90 usec
PL1 -3.00 dB
SFO1 400.1324710 MHz

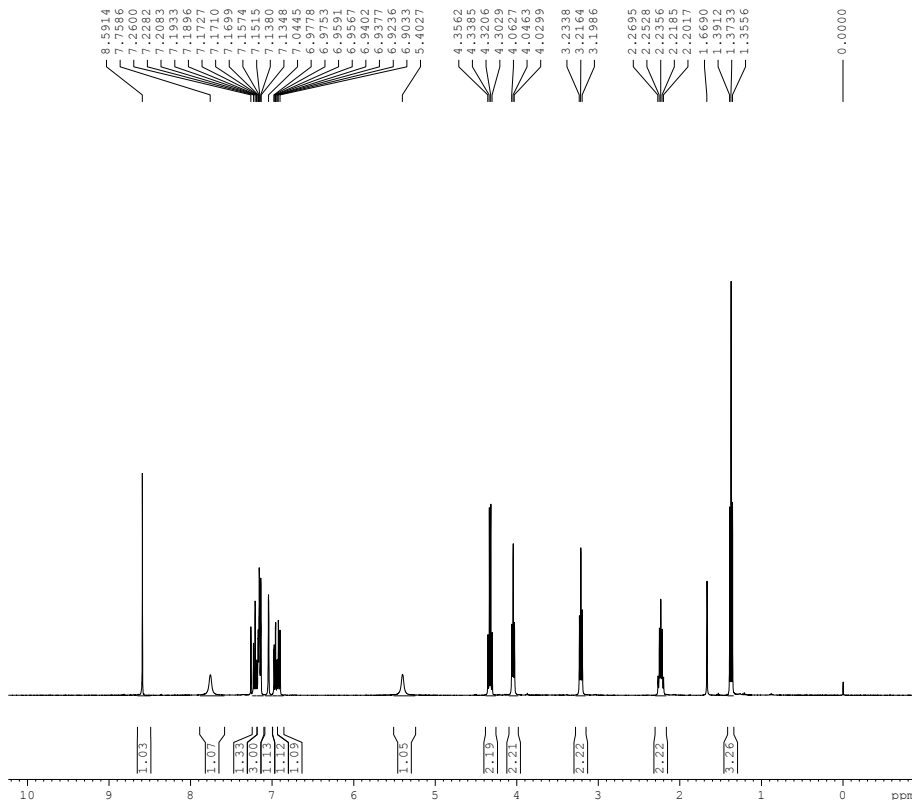
F2 - Processing parameters
SI 32768
SF 400.1300104 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

manishkumarmanu1986@gmail.com

**Ethyl
carboxylate (46)**

4-amino-2-(3-(2-trifluoromethyl-10H-phenothiazin-10-yl)propylthio)pyrimidine-5-

MKS 24



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AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Sep14-2016
EXPNO 30
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160914
Time 16.42
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 287
DW 41.600 usec
DE 6.00 usec
TE 297.2 K
D1 1.00000000 sec
TD0 1

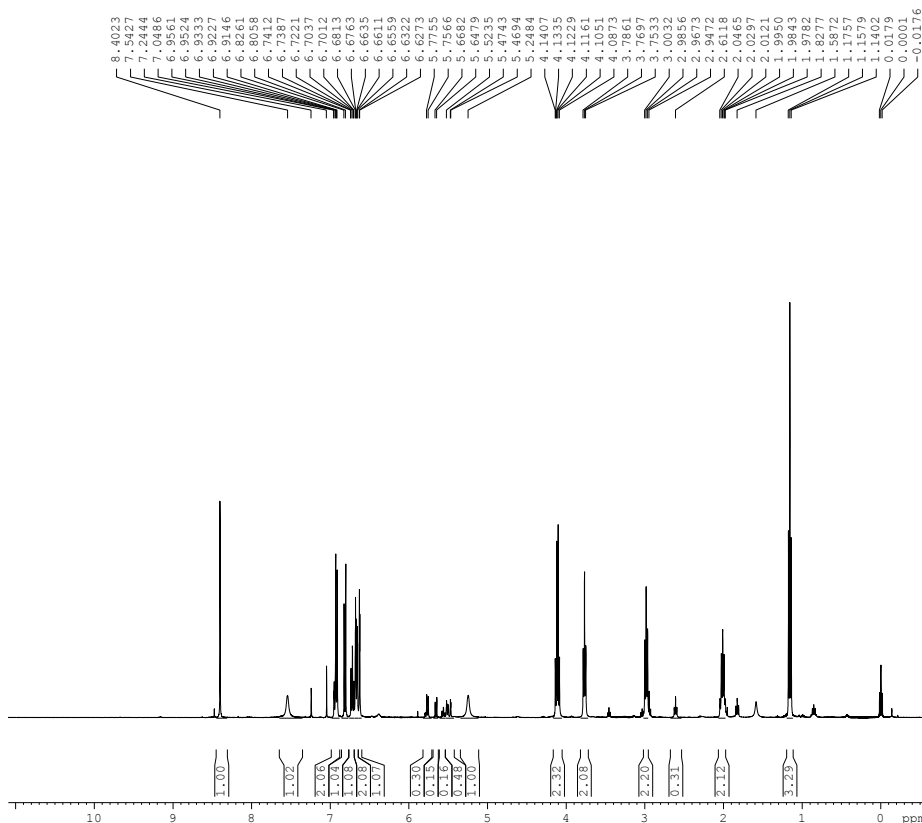
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NUC1 1H
P1 10.90 usec
PL1 -3.00 dB
SF01 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.130094 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

manishkumarmanu1986@gmail.com

Ethyl 4-amino-2-(3-(2-chloro-10H-phenothiazin-10-yl)propylthio)pyrimidine-5-carboxylate (47)

MKS-27



BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh

Current Data Parameters
NAME Dec08-2016
EXPNO 60
PROCNO 1

F2 - Acquisition Parameters
Date_ 20161208
Time 17.04
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 406
DW 41.600 usec
DE 6.00 usec
TE 296.7 K
D1 1.00000000 sec
TD0 1

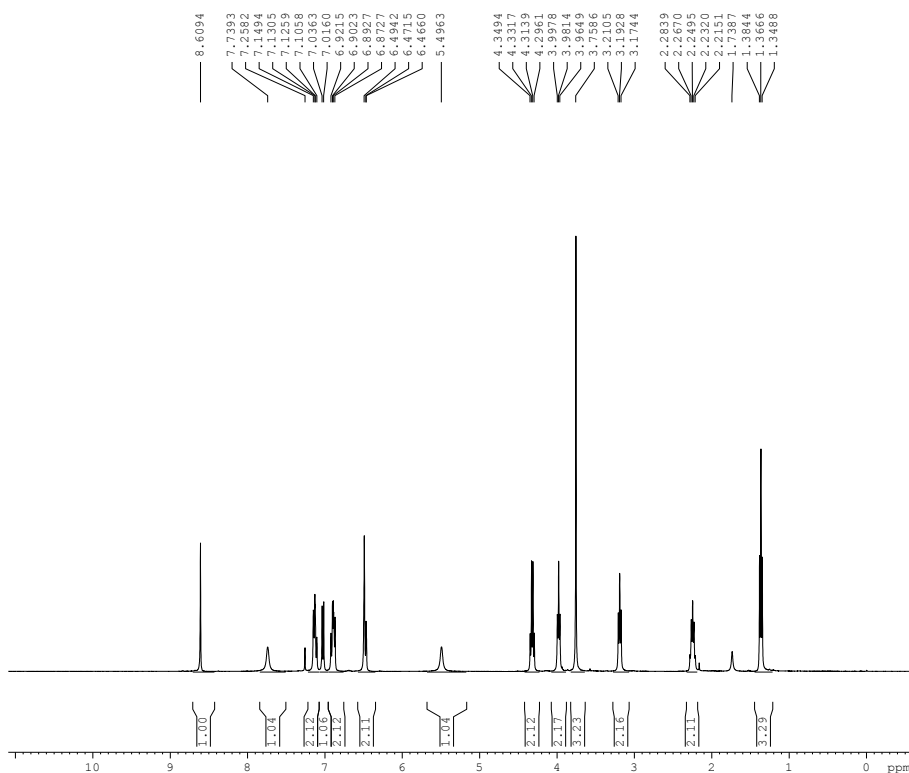
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NUC1 1H
P1 10.90 usec
PL1 -3.00 dB
SF01 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.130094 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

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Ethyl 4-amino-2-(3-(2-methoxy-10H-phenothiazin-10-yl)propylthio)pyrimidine-5-carboxylate (48)

MKS-29



BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh

Current Data Parameters
 NAME Dec08-2016
 EXPNO 70
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20161208
 Time_ 17.10
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 203
 DW 41.600 usec
 DE 6.00 usec
 TE 296.7 K
 D1 1.00000000 sec
 TD0 1

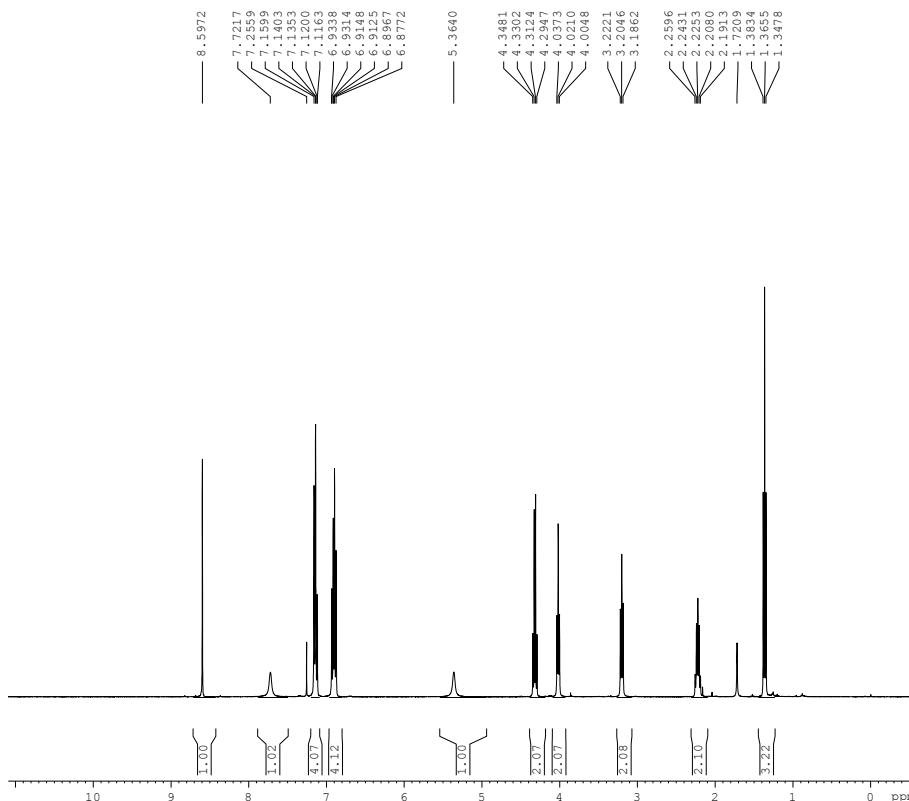
===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SF01 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300100 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

manishkumarmanu1986@gmail.com

Ethyl 4-amino-2-(3-(10H-phenothiazin-10-yl)propylthio)pyrimidine-5-carboxylate (49)

MKS-27



BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh

Current Data Parameters
 NAME Dec08-2016
 EXPNO 50
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20161208
 Time_ 16.59
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 406
 DW 41.600 usec
 DE 6.00 usec
 TE 296.7 K
 D1 1.00000000 sec
 TD0 1

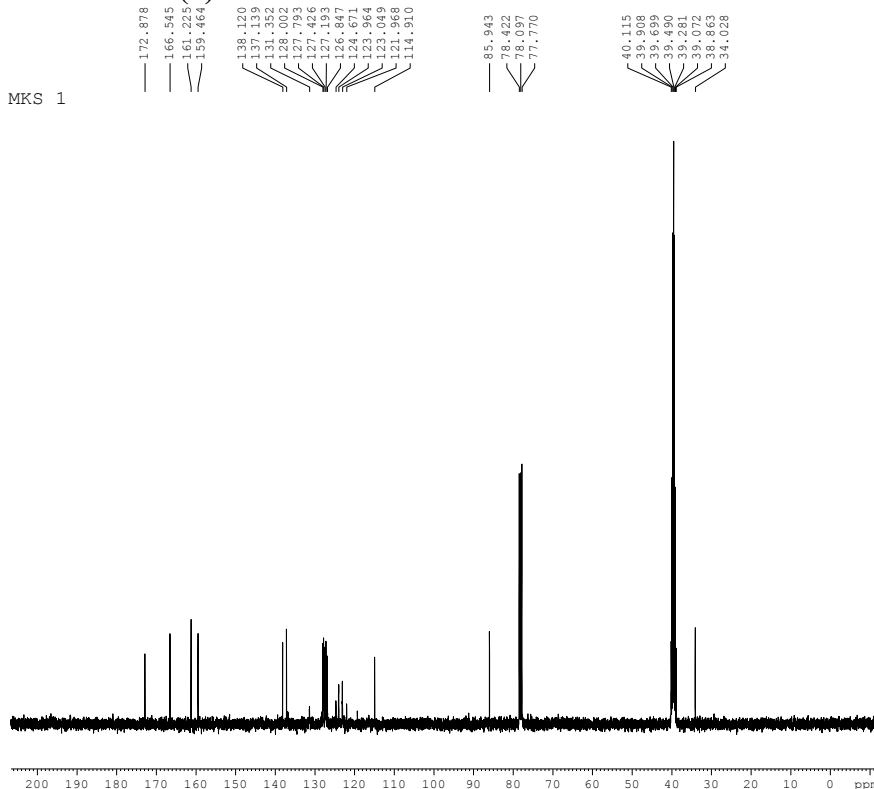
===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SF01 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300111 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

manishkumarmanu1986@gmail.com

¹³C-NMR Spectra.

4-Amino-2-(2-(2-trifluoromethyl-10H-phenothiazin-10-yl)-2-oxoethylthio)pyrimidine-5-carbonitrile (5)



```
BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh
Current Data Parameters
NAME Jul04-2017
EXPNO 242
PROCNO 1

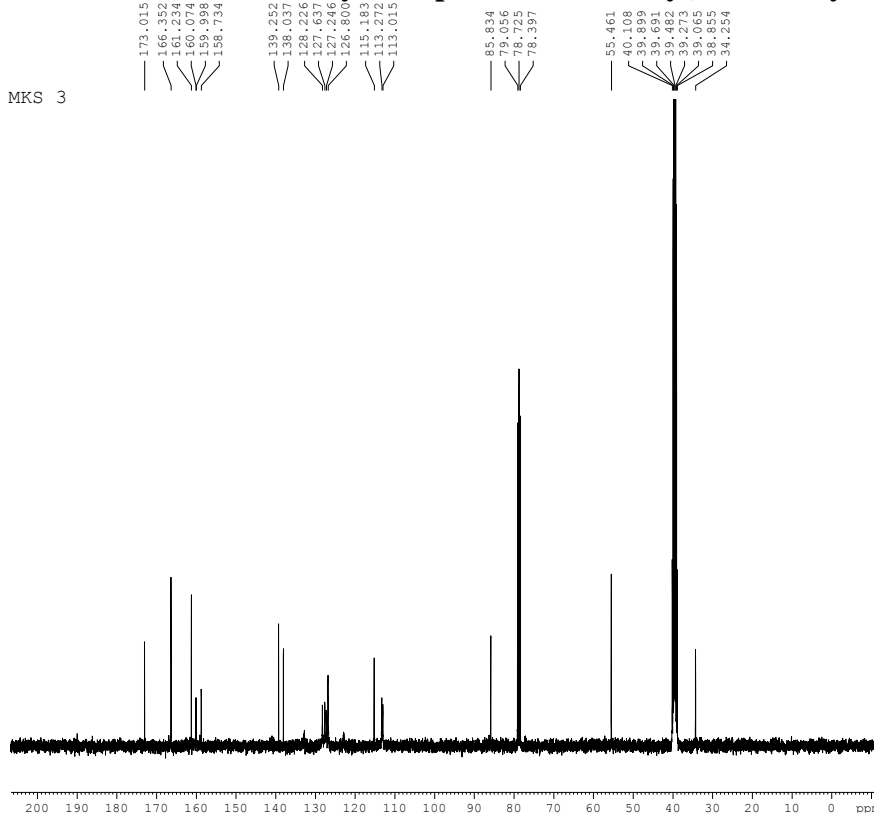
F2 - Acquisition Parameters
Date_ 20170705
Time 7.19
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 512
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 1290
DW 16.800 usec
DE 6.50 usec
TE 296.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 100.6228293 MHz
NUC1 13C
P1 9.91 usec
PLW1 41.59999847 W

===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 6.80000019 W
PLW12 0.22578999 W
PLW13 0.11357000 W

F2 - Processing parameters
SI 32768
SF 100.6128275 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
manishkumarmanu1986@gmail.com
```

4-Amino-2-(2-(2-methoxy-10H-phenothiazin-10-yl)-2-oxoethylthio)pyrimidine-5-carbonitrile (23)



```
BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh
Current Data Parameters
NAME Jul04-2017
EXPNO 251
PROCNO 1

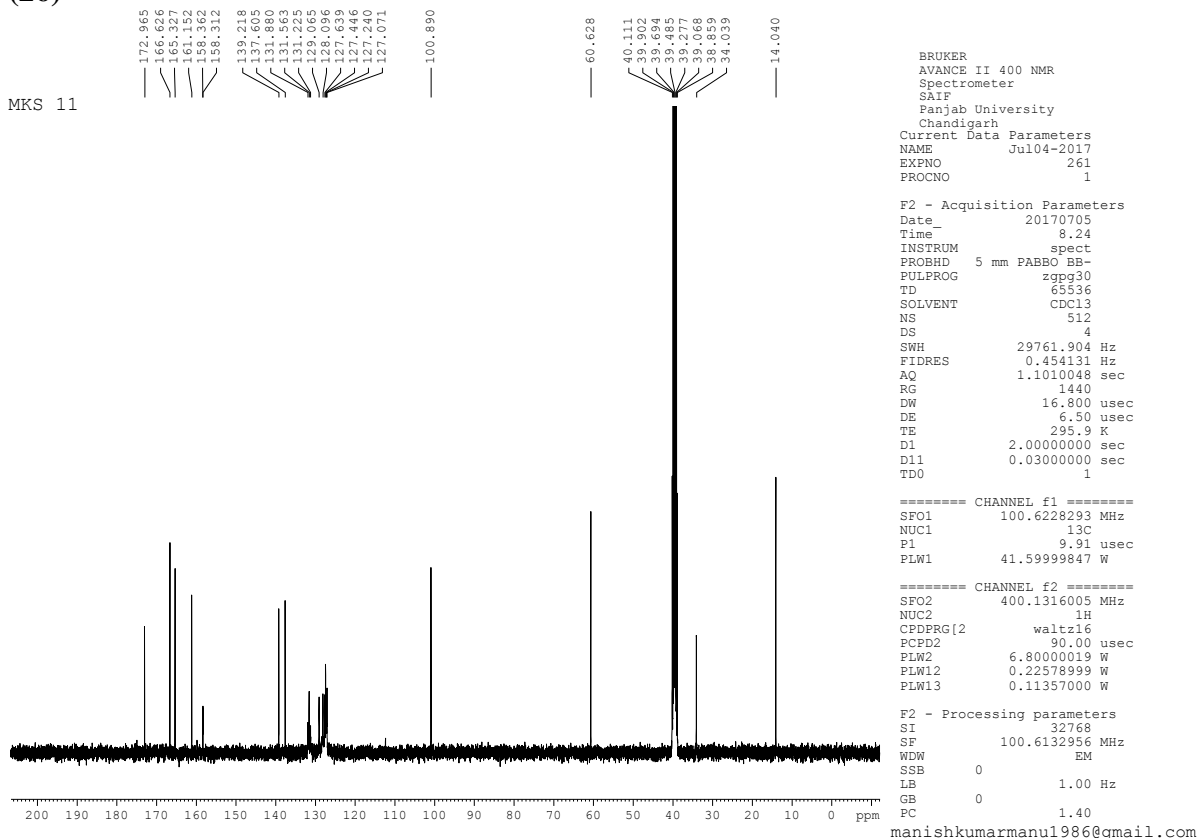
F2 - Acquisition Parameters
Date_ 20170705
Time 7.53
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 512
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 1290
DW 16.800 usec
DE 6.50 usec
TE 296.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 100.6228293 MHz
NUC1 13C
P1 9.91 usec
PLW1 41.59999847 W

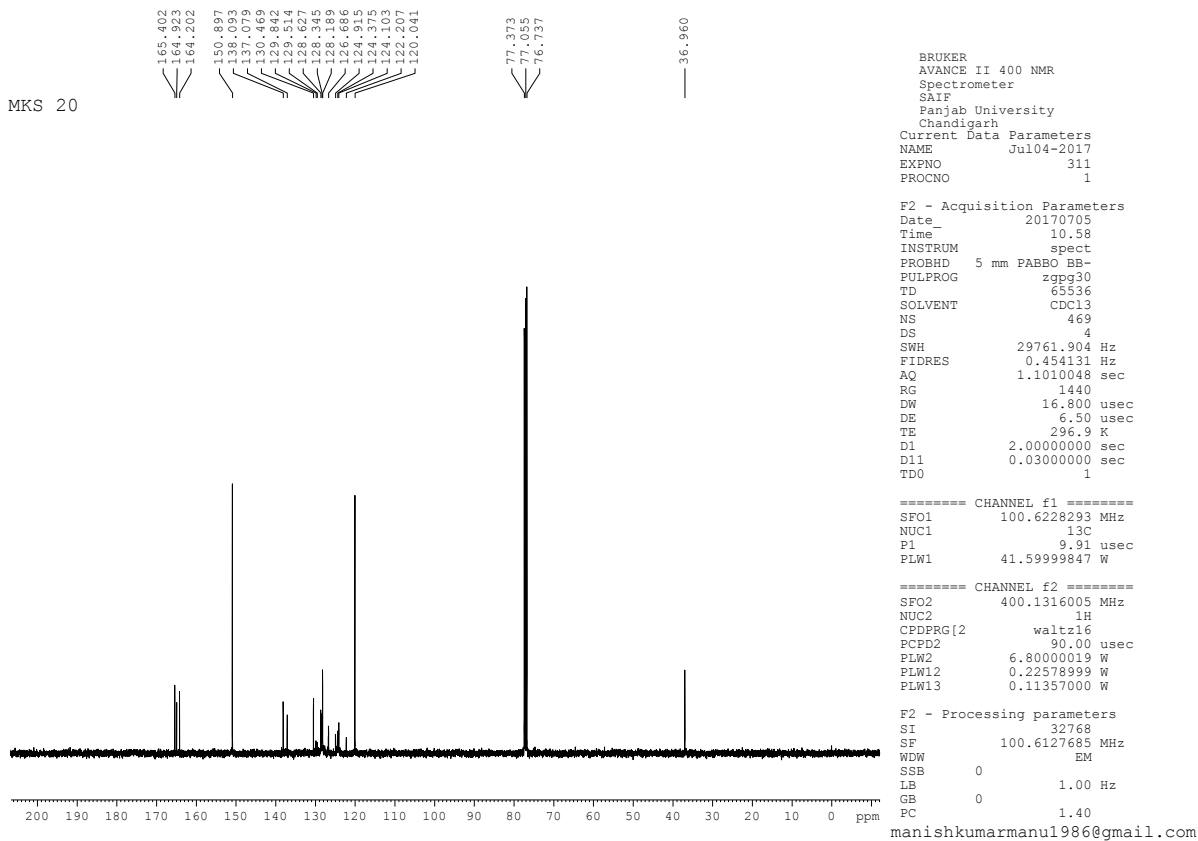
===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 6.80000019 W
PLW12 0.22578999 W
PLW13 0.11357000 W

F2 - Processing parameters
SI 32768
SF 100.6133014 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
manishkumarmanu1986@gmail.com
```

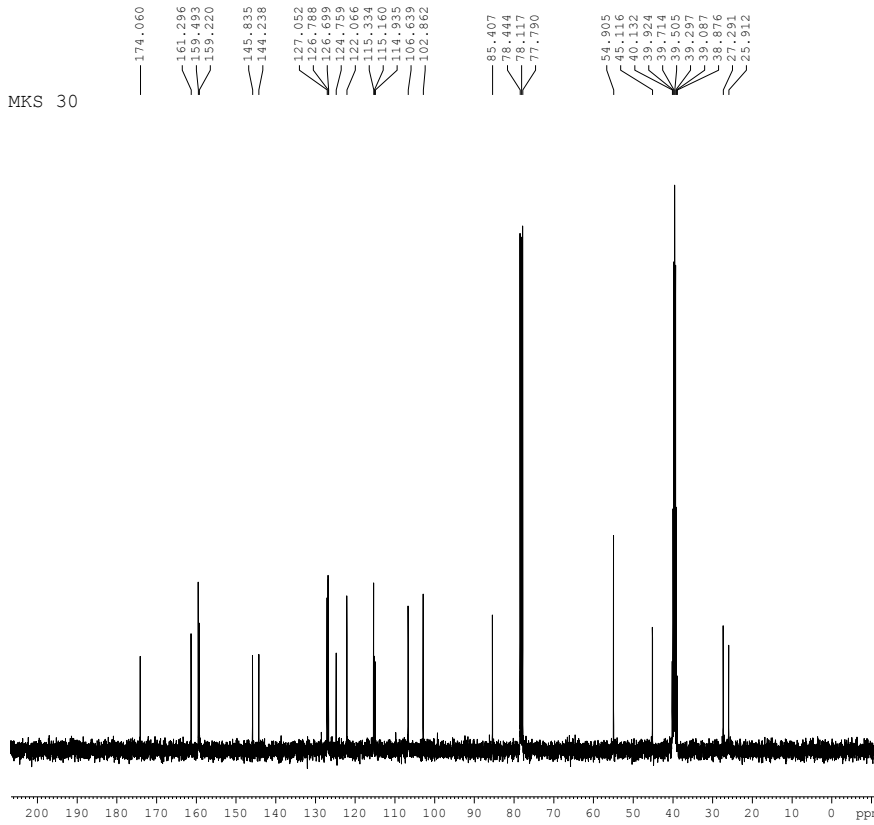
Ethyl 4-amino-2-(2-(2-chloro-10H-phenothiazin-10-yl)-2-oxoethylthio)pyrimidine-5-carboxylate (26)



2-(5-(4-pyridyl)-1,3,4-oxadiazol-2-ylthio)-1-(2-trifluoromethyl-10H-phenothiazin-10-yl)ethanone (29)



4-Amino-2-(3-(2-methoxy-10H-phenothiazin-10-yl)propylthio)pyrimidine-5-carbonitrile (44)



```

BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh
Current Data Parameters
NAME Jul04-2017
EXPNO 351
PROCNO 1

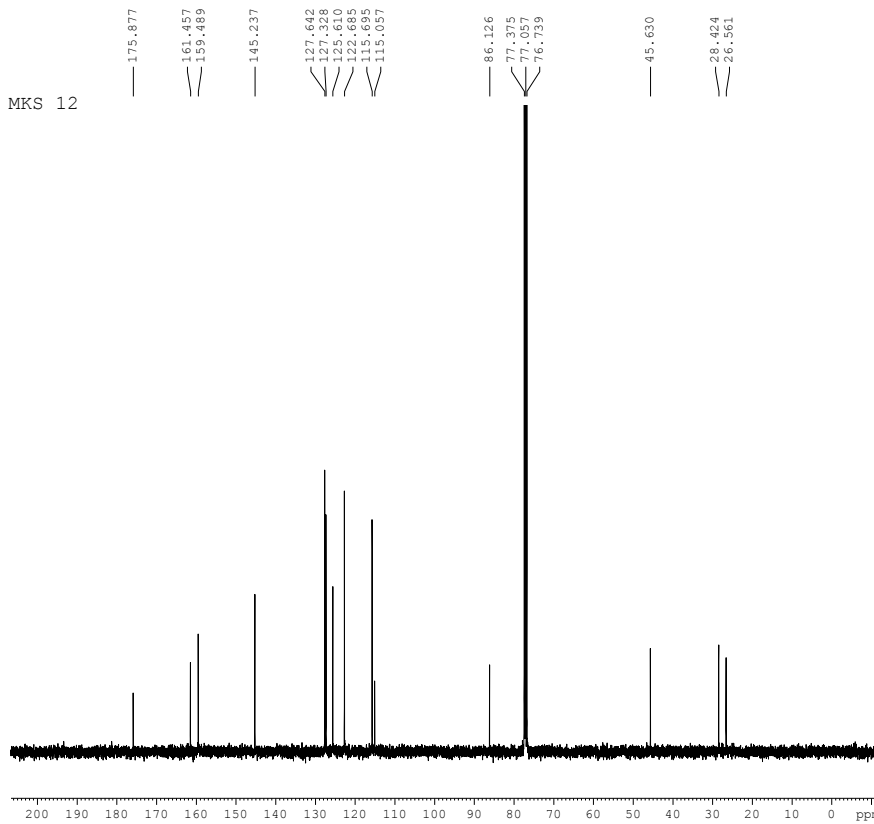
F2 - Acquisition Parameters
Date_ 20170705
Time 15.42
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 218
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 1440
DW 16.800 usec
DE 6.50 usec
TE 297.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6228293 MHz
NUC1 13C
P1 9.91 usec
PLW1 41.59999847 W

===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 6.80000019 W
PLW12 0.22578999 W
PLW13 0.11357000 W

F2 - Processing parameters
SI 32768
SF 100.6122895 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
manishkumarmanu1986@gmail.com
    
```

4-Amino-2-(3-(10H-phenothiazin-10-yl)propylthio)pyrimidine-5-carbonitrile (45)



```

BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh
Current Data Parameters
NAME Jul04-2017
EXPNO 271
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170705
Time 8.56
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 512
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 1290
DW 16.800 usec
DE 6.50 usec
TE 296.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6228293 MHz
NUC1 13C
P1 9.91 usec
PLW1 41.59999847 W

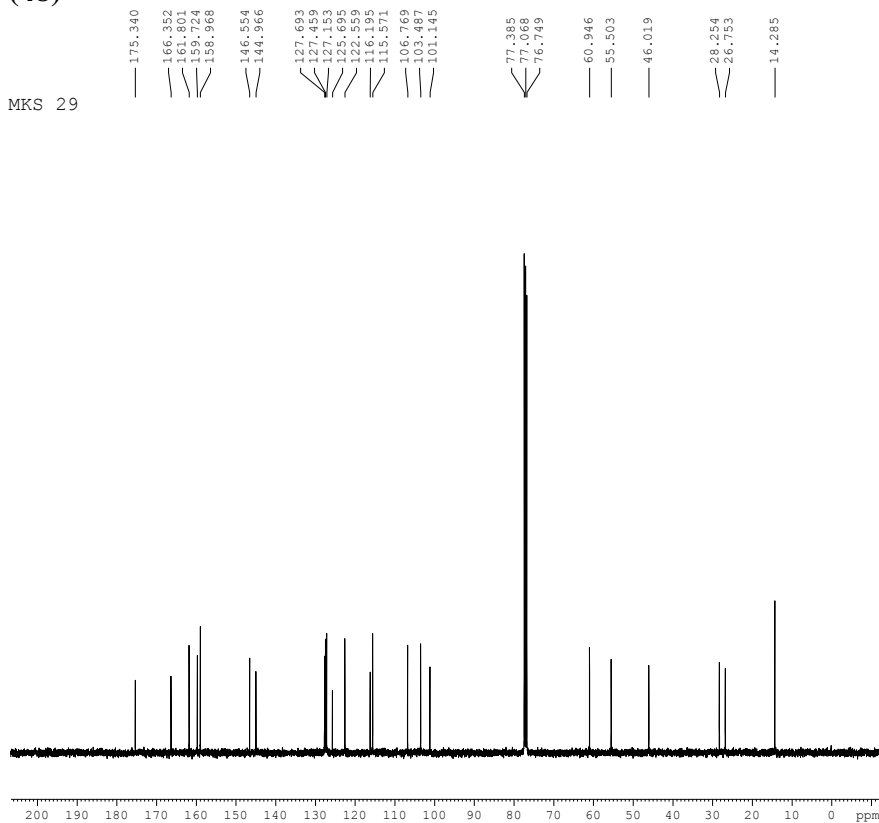
===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 6.80000019 W
PLW12 0.22578999 W
PLW13 0.11357000 W

F2 - Processing parameters
SI 32768
SF 100.6127685 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
manishkumarmanu1986@gmail.com
    
```


Ethyl
(48)

4-amino-2-(3-(2-methoxy-10H-phenothiazin-10-yl)propylthio)pyrimidine-5-carboxylate

MKS 29



```
BRUKER
AVANCE II 400 NMR
Spectrometer
SAIF
Panjab University
Chandigarh
Current Data Parameters
NAME      Jul04-2017
EXPNO     341
PROCNO    1

F2 - Acquisition Parameters
Date_     20170705
Time      15.24
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD        65536
SOLVENT   CDCl3
NS        512
DS        4
SWH       29761.904 Hz
FIDRES    0.454131 Hz
AQ        1.1010048 sec
RG        1440
DW        16.800 usec
DE        6.50 usec
TE        296.8 K
D1        2.00000000 sec
D11       0.03000000 sec
TD0       1

===== CHANNEL f1 =====
SFO1     100.6228293 MHz
NUC1     13C
P1       9.91 usec
PLW1     41.59999847 W

===== CHANNEL f2 =====
SFO2     400.1316005 MHz
NUC2     1H
CPDPRG[2] waltz16
PCPD2    30.00 usec
PLW2     6.80000019 W
PLW12    0.22578999 W
PLW13    0.11357000 W

F2 - Processing parameters
SI       32768
SF       100.6127685 MHz
WDW      EM
SSB      0
LB       1.00 Hz
GB       0
PC       1.40
manishkumarmanu1986@gmail.com
```