

Supporting Information

Table of Contents

1) Experimental Section.....	S2
2) General procedure to synthesis of compound 3a to 3ao.....	S2
3) Characterisation Data of 3x to 3al, 3i, 3r and Sodium tri(propionyloxy) borohydride.....	S2-S6
4) References.....	S6
5) Copies of H¹ NMR spectra of compounds 3w to 3al, 3i and 3r.....	S7-S24

Experimental Section

1 Materials and methods:

Melting points are taken on a precision melting point apparatus (DBK) instrument and are uncorrected. IR spectra are obtained in potassium bromide (KBr) disks on a Bruker IR Spectrometer and H^1 NMR spectra were obtained on deuteriodimethylsulfoxide (DMSO- d_6) as well as $CDCl_3$ on a 400 MHz spectrometer. GC (VARIAN CP-3800 GC, HP-5 capillary column, FID detector), Mass spectra were recorded on a MicroMass spectrometer by Waters. All starting materials purchased from commercial source. Substrate (2s to 2w) was synthesised following reported process. ^[1] Raw materials procured from spectrochem.

2 General procedure for synthesis of compounds 3a-3ao.

4 mmol of carboxylic acid in toluene (5 vol) was added with sodium borohydride (2.5 mmol) in portions at 0-5°C. To the mixture was added EnCat Ni 2.5%. Gradually raise the temperature to 25-30°C. To the mixture was added 1 mmol secondary amine. Raise the temperature to 80°C. To the reaction mixture was added 1.5 mmol of sodiumborohydride in portions. The progress of the reaction was monitored by TLC. After the completion of reaction, reaction mixture was quenched with 1N HCl to pH 7 to 8 and separated organic solution washed with water. Solvent was distilled out under reduce pressure at 50°C. The product was isolated by crystallisation in isopropyl alcohol and conc. Hydrochloric acid followed by filtration and drying to yield (90-99%) solid hydrochloride salt as product.

3 Characterisation Data.

4-(benzo[d]thiazol-2-yl(methyl)amino)-2-fluoro-N-methylbenzamide (3x); White solid, m.p 235°C- 238°C. IR (cm^{-1}) 3065, 2850, 1605, 1578, 1556, 1375, 1350; H^1 NMR (400 MHz, $CDCl_3$) δ : 3.10(3H, s, N- CH_3), 3.19 (3H, s, N- CH_3); 6.80 (1H, brs, CON-H), 7.29-7.46(4H, m, Ar-H), 7.77-7.79(1H, d, Ar-H), 7.85-7.87 (1H, d, Ar-CH), 8.27-8.31(1H, t, Ar-CH), HRMS (ESI) for $C_{17}H_{12}F_3N_3S$ $[M+H]^+$: 316.3702,

Anal. Calcd for C₁₆H₁₄F₁N₃OS: C, 60.94; H, 4.47; N, 13.32, Found: C, 60.94, ; H, 4.47; N, 13.32.

5-(benzo[d]thiazol-2-yl(ethyl)amino)-3-(trifluoromethyl)picolinonitrile (3y); White solid, m.p 223-228°C. IR (cm⁻¹) 3076, 2938, 2230,1350, 1185; ¹H NMR (400 MHz, DMSO) δ: 0.89 (3H, t,CH₃), 3.05 (2H, q, CH₂), 7.01-7.64 (5H, m, Ar-CH), 8.31(1H, s, CH), **HRMS (ESI) for C₁₇H₁₂F₃N₃S [M+H]⁺ : 349.3510**, Anal. Calcd for C₁₆H₁₁F₃N₄S: C, 55.17; H, 3.18; N, 16.08, Found: C, 55.16; H, 3.19; N, 16.06.

N-ethyl-N-(2-nitro-4-(trifluoromethyl)phenyl)benzo[d]thiazol-2-amine (3z); White solid, m.p 255-269°C. IR (cm⁻¹) 3105, 2963, 2230, 1555, 1375, 1320, 1565; ¹H NMR (400 MHz, CDCl₃) δ: 1.06 (3H, t, CH₃), 3.06 (2H, q, CH₂), 7.55-7.64 (2H, m, Ar-CH), 7.86 -7.91(2H, m, Ar-CH), 8.1 (2H, m, Ar-CH), 8.46 (1H, s, Ar-CH), **HRMS (ESI) for C₁₇H₁₂F₃N₃O₂S [M+H]⁺ : 368.3511**, Anal. Calcd for C₁₆H₁₂F₃N₃O₂S: C, 52.314; H, 3.29; N, 11.44, Found: C, 52.31; H, 3.29; N, 11.44.

4-((6-chlorobenzo[d]thiazol-2-yl)(ethyl)amino)-2-(trifluoromethyl)benzonitrile (3ab); white solid, m.p 255-259°C. IR (cm⁻¹) 3105, 2970, 2230, 1382,1570,1500, ¹H NMR (400 MHz, CDCl₃) δ: 1.06(3H, t, CH₃), 3.06(2H, q, CH₂), 7.43-7.45(1H, t, Ar-CH), 7.67-7.69(1H, d, Ar-CH), 7.81-7.86(2H,m, Ar-H), 7.91(1H,s, Ar-H), 8.07(1H, d, Ar-H), **HRMS (ESI) for C₁₇H₁₂F₃N₃S [M+H]⁺ : 382.80**, Anal. Calcd for C₁₇H₁₁ClF₃N₃S: C, 53.48; H, 2.90; N, 11.01 Found: C, 53.48; H, 2.90; N, 11.01.

4-(benzo[d]thiazol-2-yl(propyl)amino)-2-(trifluoromethyl)benzonitrile (3ac); White solid, m.p 244-248°C. IR (cm⁻¹) 3050, 2235, 1570, 1460,1399, 1240 ; ¹H NMR (400 MHz, DMSO) δ: 0.89(3H, t, CH₃), 1.49(2H, m, CH₂), 3.01 (2H, t, CH₂), 7.26 (1H, t, Ar-CH); 7.4 (1H, t, Ar-CH); 7.72(1H, d, Ar-CH); 7.91(1H, d, Ar-CH); 8.12(1H, d, Ar-CH); 8.21(1H, d, Ar-CH); 8.40(1H, s, Ar-CH), **HRMS (ESI) for C₁₇H₁₂F₃N₃S [M+H]⁺ : 361.3801**, Anal. Calcd for C₁₈H₁₄F₃N₃S: C, 59.82; H, 3.90; N, 11.63 Found: C, 59.82; H, 3.90; N, 11.63.

4-(benzo[d]thiazol-2-yl(ethyl)amino)-2-fluoro-N-methylbenzamide (3ad); White solid, m.p 237-242°C. IR (cm⁻¹) 3096, 1555,1440, 1399; ¹H NMR (400 MHz,

CDCl₃) δ: 1.06 (3H, d, CH₃), 3.06 (2H, q), 3.3 (3H, s, N-CH₃); 6.80 (1H, brs, CON-H), 7.29-7.46(4H, m, Ar-H), 7.77-7.79(1H, d, Ar-H), 7.85-7.87 (1H, d, Ar-CH), 8.27-8.31(1H, t, Ar-CH). **HRMS (ESI) for C₁₇H₁₂F₃N₃S [M+H]⁺** : 330.4010, Anal. Calcd for C₁₇H₁₆F₁N₃OS: C, 61.99; H, 4.90; N, 12.76. Found: C, 61.98; H, 4.90; N, 12.76.

5-(benzo[d]thiazol-2-yl(propyl)amino)-3-(trifluoromethyl)picolinonitrile (3ae); yellow solid, m.p 244-248°C. IR (cm⁻¹) 3050, 2230, 1570, 1460,1399; ¹H NMR (400 MHz, DMSO) δ: 0.89(3H, t, CH₃), 1.49(2H, m, CH₂), 3.15 (2H, t, CH₂), 7.01-7.64 (5H, m, Ar-CH), 8.31(1H, s, CH), **HRMS (ESI) for C₁₇H₁₂F₃N₃S [M+H]⁺** : 321.02, Anal. Calcd for C₁₇H₁₃F₃N₄S: C, 56.35; H, 3.62; N, 15.46, Found: C, 56.35; H, 3.62; N, 15.46.

N-(2-nitro-4-(trifluoromethyl)phenyl)-N-propylbenzo[d]thiazol-2-amine (3af); White solid, m.p 252-257°C. IR (cm⁻¹) 3050, 570, 1464,1370,1272;; ¹H NMR (400 MHz, CDCl₃) δ: 0.89(3H, t, CH₃), 1.47(2H, m, CH₂), 3.02 (2H, t, CH₂), 7.55-7.64 (2H, m, Ar-CH), 7.86 -7.91(2H, m, Ar-CH), 8.1 (2H, m, Ar-CH), 8.46 (1H, s, Ar-CH), **HRMS (ESI) for C₁₇H₁₂F₃N₃S [M+H]⁺** : 382.3701, Anal. Calcd for C₁₇H₁₄F₃N₃O₂S: C, 53.54; H, 3.70; N, 11.02, Found: C, 53.54; H, 3.70; N, 11.02.

4-(benzo[d]thiazol-2-yl(isopentyl)amino)-2-(trifluoromethyl)benzonitrile (3ag); White solid, m.p 238-242°C. IR (cm⁻¹) 3165, 2895, 2230, 1556, 1440,1265; ¹H NMR (400 MHz, CDCl₃) δ: 0.91(6H, d, 2CH₃), 1.26(1H, m, CH), 1.54(2H, q, CH₂), 3.25 (2H, d, CH₂), 7.55(2H, m, Ar-CH); 7.86(2H, m, Ar-CH); 8.10(2H, m, Ar-CH); 8.46(1H, s, Ar-CH); 8.12(1H, d, Ar-CH); 8.21(1H, d, Ar-CH). Mass (EI)⁺: 390.4410, Anal. Calcd for C₂₀H₁₈F₃N₃S: C, 61.68; H, 4.66; N, 10.79, Found: C, 61.68; H, 4.66; N, 10.79.

N-isobutyl-N-(2-nitro-4-(trifluoromethyl)phenyl)benzo[d]thiazol-2-amine (3ah); White solid, m.p 261-265°C. IR (cm⁻¹) 3045, 2230, 1562,1485, 1355, 1265; ¹H NMR (400 MHz, CDCl₃) δ: 0.91(6H, d, 2CH₃), 1.26 (1H, m, CH), 3.20 (2H, d, CH₂), 7.55-7.64 (2H, m, Ar-CH), 7.86 -7.91(2H, m, Ar-CH), 8.1 (2H, m, Ar-CH), 8.46 (1H, s, Ar-CH), **HRMS (ESI) for C₁₇H₁₂F₃N₃S [M+H]⁺** : 396.4011, Anal. Calcd for C₁₈H₁₆F₃N₃O₂S: C, 54.68; H, 4.08; N, 10.63, Found: C, 54.68; H, 4.08; N, 10.63.

4-((6-chlorobenzo[d]thiazol-2-yl)(isobutyl)amino)-2-(trifluoromethyl)benzonitrile (3ai); White solid, m.p 237-241°C. IR (cm⁻¹) 3085, 2855, 2230, 2801; IR (KBr): ν (cm⁻¹) 3449, 3245, 2957, 2166, 1625, 1276, 1148; ¹H NMR (400 MHz, CDCl₃) δ: 0.91(6H, d, 2CH₃), 1.26(1H, m, CH), 3.20 (2H, d, CH₂), 7.43-7.45(1H, t, Ar-CH), 7.67-7.69(1H, d, Ar-CH), 7.81-7.86(2H,m, Ar-H), 7.91(1H,s, Ar-H), 8.07(1H, d, Ar-H). **HRMS (ESI) for C₁₇H₁₂F₃N₃S [M+H]⁺** : 410.8601, Anal. Calcd for C₁₉H₁₅ClF₃N₃S: C, 55.68; H, 3.69; N, 10.25, Found: C, 55.68; H, 3.68; N, 10.25.

4-(benzo[d]thiazol-2-yl(isobutyl)amino)-2-(trifluoromethyl)benzonitrile (3aj); White solid, m.p 233-238°C. IR (cm⁻¹) 3051, 2285, 2230, 1521,1245; ¹H NMR (400 MHz, DMSO) δ: : 0.91(6H, d, 2CH₃), 1.28(1H, m, CH), 3.22 (2H, d, CH₂), 7.26 (1H, t, Ar-CH); 7.4 (1H, t, Ar-CH); 7.72(1H, d, Ar-CH); 7.91(1H, d, Ar-CH); 8.12(1H, d, Ar-CH); 8.21(1H, d, Ar-CH); 8.40(1H, s, Ar-CH). **HRMS (ESI) for C₁₇H₁₂F₃N₃S [M+H]⁺** : 376.3511, Anal. Calcd for C₁₉H₁₆F₃N₃S: C, 60.79; H, 4.30; N, 11.19, Found: C, 60.79; H, 4.30; N, 11.19.

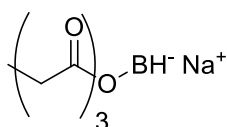
4-((6-chlorobenzo[d]thiazol-2-yl)(propyl)amino)-2-(trifluoromethyl)benzonitrile (3ak); White solid; m.p 24-245°C, IR (cm⁻¹) 3015, 2230, 1605, 1345, 1247; ¹H NMR (400 MHz, CDCl₃) δ: 0.89(3H, t, CH₃), 1.47(2H, m, CH₂), 3.02 (2H, t, CH₂), 7.43-7.45(1H, t, Ar-CH), 7.67-7.69(1H, d, Ar-CH), 7.81-7.86(2H,m, Ar-H), 7.91(1H,s, Ar-H), 8.07(1H, d, Ar-H), **HRMS (ESI) for C₁₇H₁₂F₃N₃S [M+H]⁺** : 396.8311, Anal. Calcd for C₁₈H₁₃ClF₃N₃S: C, 54.62; H, 3.31; N, 10.62, Found: C, 54.62; H, 3.31; N, 10.62.

5-(benzo[d]thiazol-2-yl(isobutyl)amino)-3-(trifluoromethyl)picolinonitrile (3al); White solid, m.p 252-255°C. IR (cm⁻¹) 3015, 2885, 2230,1565,1276 ; ¹H NMR (400 MHz, DMSO) δ: 0.91(6H, d, 2CH₃), 1.26(1H, m, CH), 3.05 (2H, d, CH₂), 7.01-7.64 (5H, m, Ar-CH), 8.31(1H, s, CH), **HRMS (ESI) for C₁₇H₁₂F₃N₃S [M+H]⁺** : 377.4101, Anal. Calcd for C₁₈H₁₅F₃N₄S: C, 57.44; H, 4.02; N, 14.88 Found: C, 57.44; H, 4.02; N, 14.87.

5-hexyl-10,11-dihydro-5H-dibenzo[b,f]azepine (3i); Yellow oil, IR (cm^{-1}) 3031, 2879, 2806, 1348, 1214; ^1H NMR (400 MHz, CDCl_3) δ : 7.35-7.33 (dd, 2H, Ar), 7.12- 6.88(m, 6H, Ar), 3.81(t, 2H), 2.87 (s, 4H), 1.67-1.55 (m, 2H), 1.42- 1.32 (m, 2H), 1.31- 1.14(m, 4H), 0.89 (t, 3H). **HRMS (ESI) for $\text{C}_{17}\text{H}_{12}\text{F}_3\text{N}_3\text{S}$ $[\text{M}+\text{H}]^+$** : 280.2011.

10-(3-chloropropyl)-10H-benzo[b]pyrido[2,3-e][1,4]thiazine (3r); ^1H NMR (400 MHz, DMSO) 7.20- 7.169(m, 4H), 7.36 (1H, dd, Ar-H), 7.84 (1H, dd, Ar-H), 8.28 (1H, dd, Ar-H), 3.89 (2H, t, $\text{CH}_2\text{-Cl}$), 3.64 (2H, t, $\text{CH}_2\text{-N}$), 1.91 (2H, m, $\text{CH}_2\text{-CH}_2\text{-N}$), **HRMS (ESI) for $\text{C}_{17}\text{H}_{12}\text{F}_3\text{N}_3\text{S}$ $[\text{M}+\text{H}]^+$** : 277.8039, Anal. Calcd for $\text{C}_{14}\text{H}_{13}\text{ClN}_2\text{S}$: C, 60.7510; H, 4.73; N, 10.12 Found: C, 60.72, 4.02; N, 14.85.

Sodium tri(propionyloxy) borohydride.



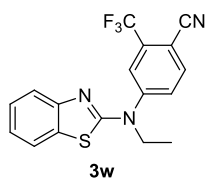
Colorless solid. IR (cm^{-1}) 3449, 2981, 2942, 2884, 2463, 1701, 1669, 1635 cm^{-1} ; FAB-HR-MS calcd for $\text{C}_9\text{H}_{16}\text{BO}_6$ $[\text{M}]^-$ 231.1042, found 231.1042.

4 References

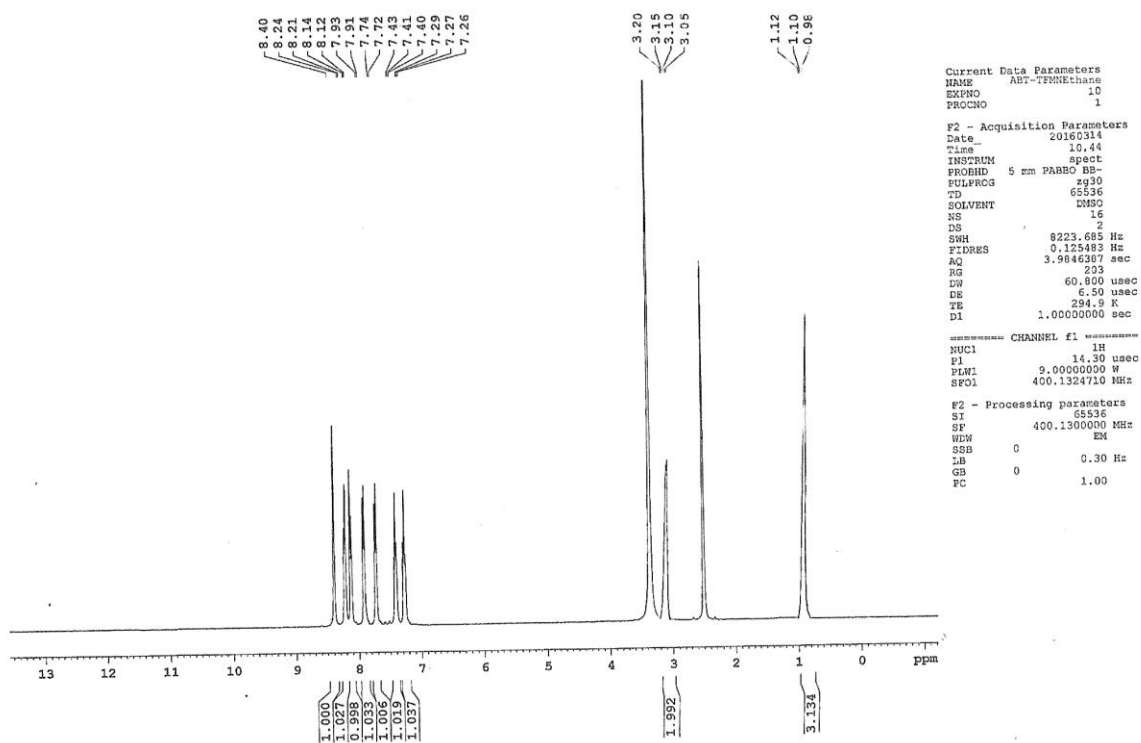
[1] S. A. I. Quadri, T. C. Das, M. Farooqui, *ChemistrySelect* **2017**, 2, 1802.

5 Copies of ^1H NMR spectra of compounds 3w to 3al, 3i and 3r

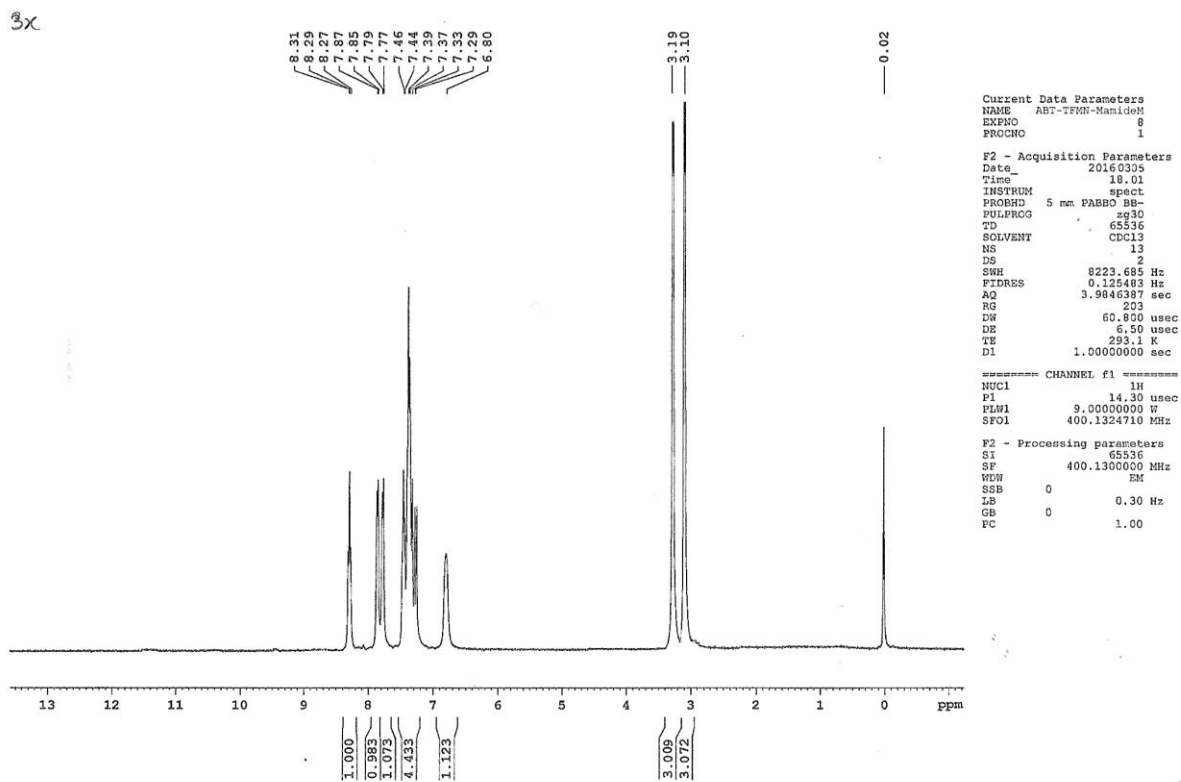
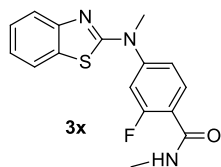
4-(benzo[d]thiazol-2-yl(ethyl)amino)-2-(trifluoromethyl)benzonitrile (3w)



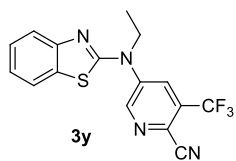
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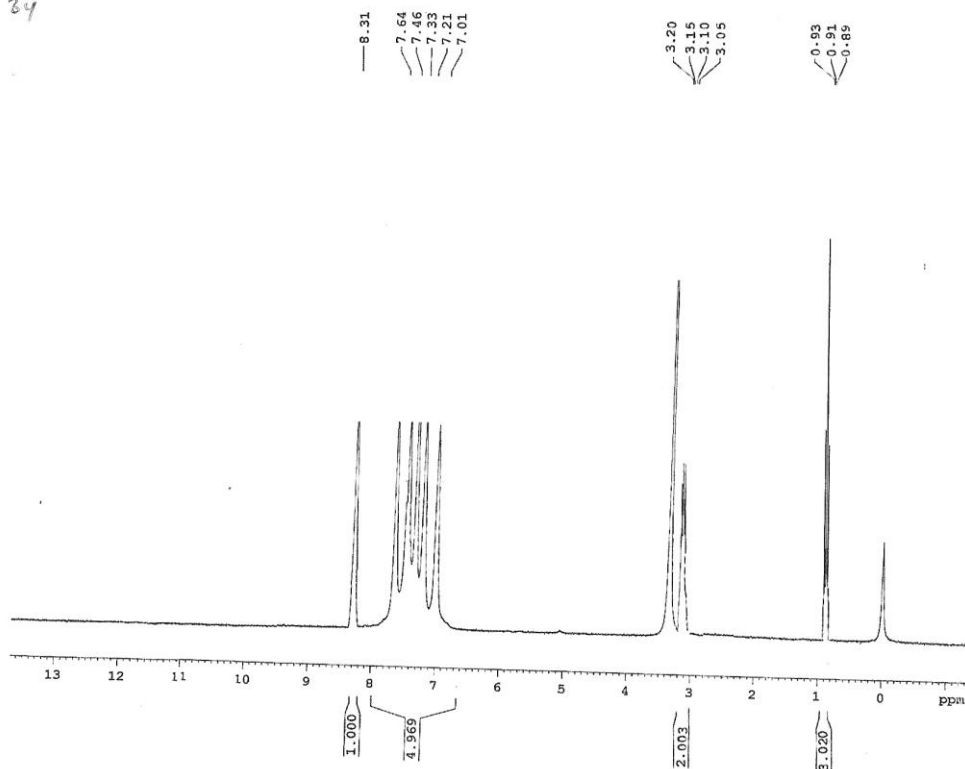
4-(benzo[d]thiazol-2-yl(methyl)amino)-2-fluoro-N-methylbenzamide (3x)



5-(benzo[d]thiazol-2-yl(ethyl)amino)-3-(trifluoromethyl)picolinonitrile (3y);



3y



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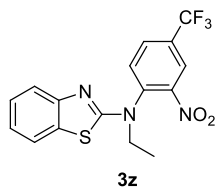
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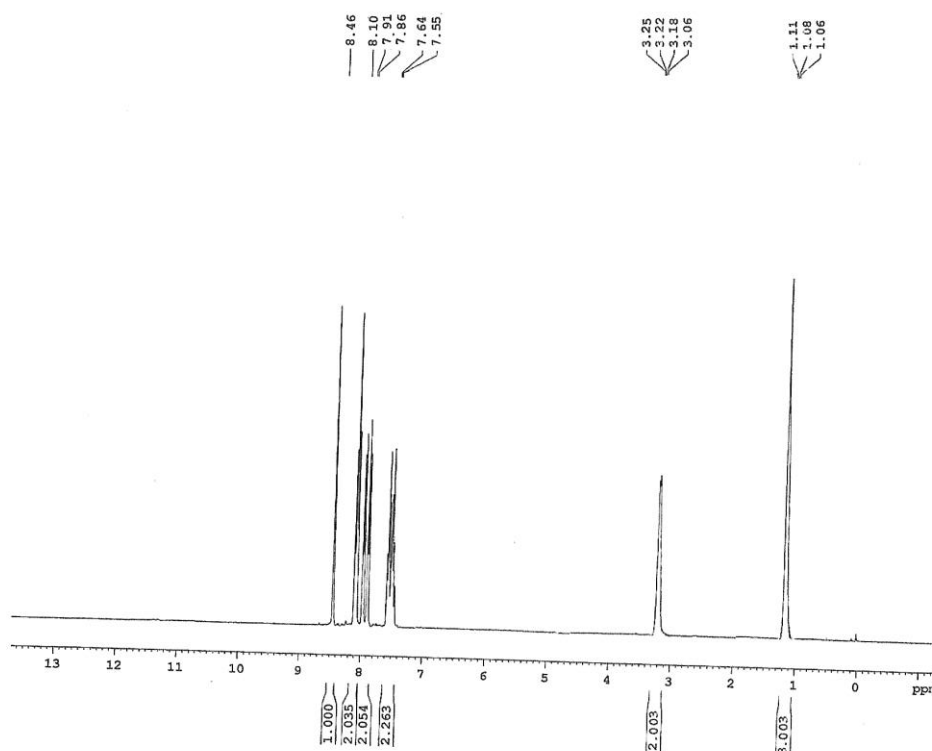
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N-ethyl-N-(2-nitro-4-(trifluoromethyl)phenyl)benzo[d]thiazol-2-amine (3z);



3z



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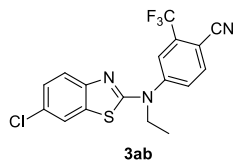
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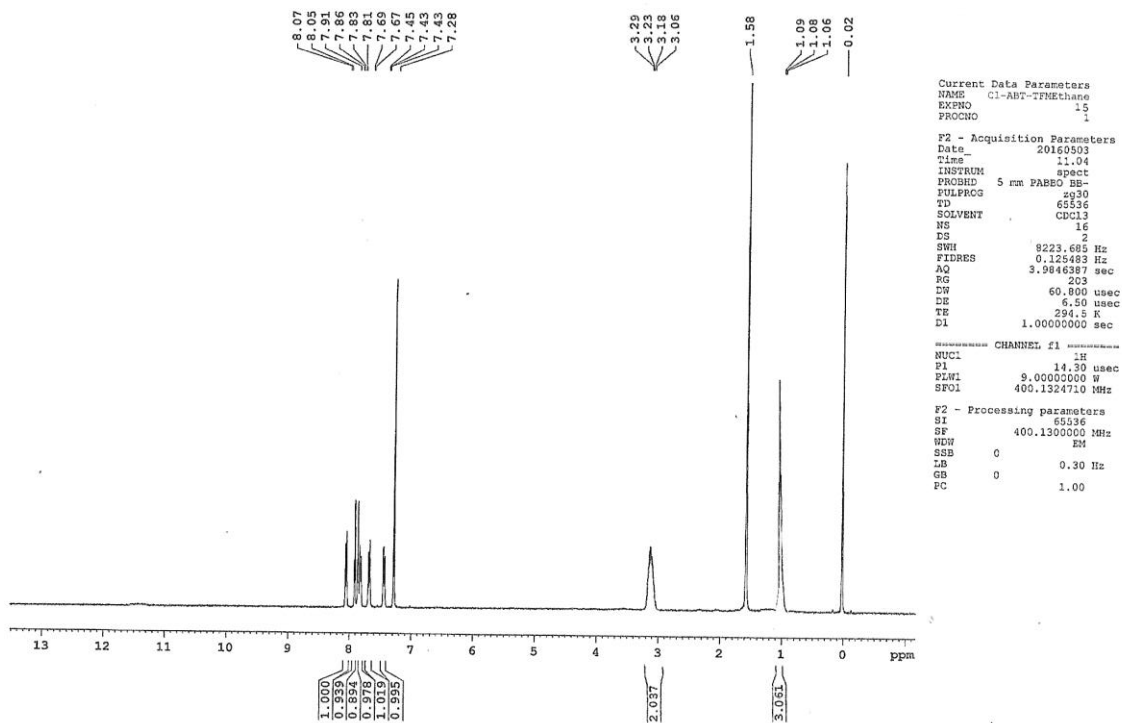
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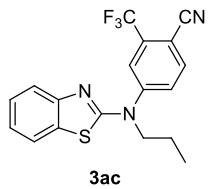
4-((6-chlorobenzo[d]thiazol-2-yl)(ethyl)amino)-2-(trifluoromethyl)benzonitrile (3ab);



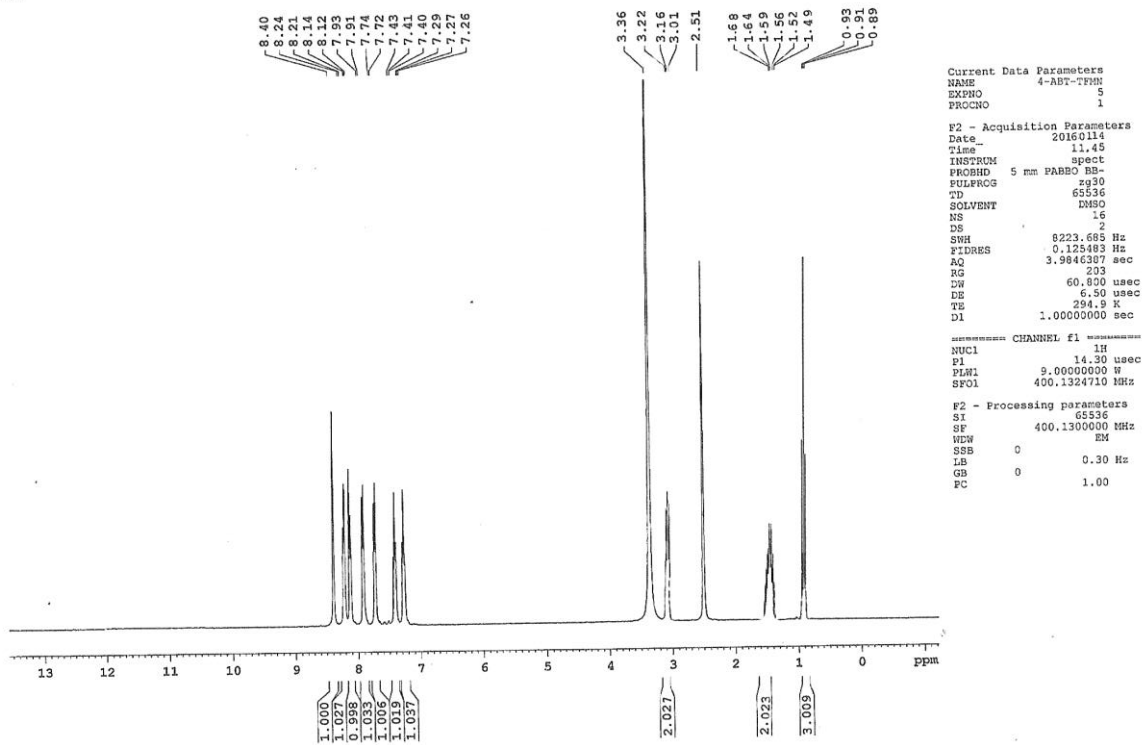
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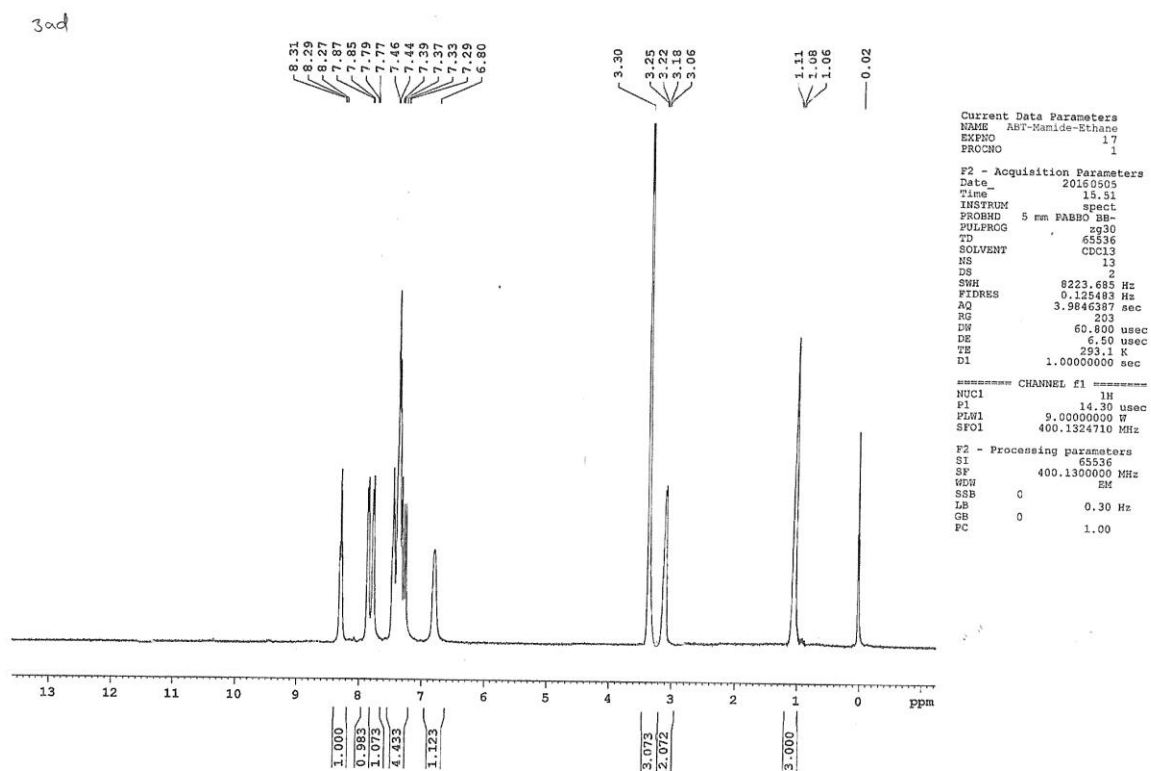
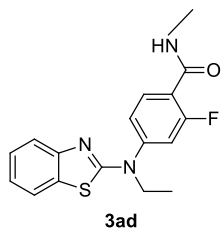
4-(benzo[d]thiazol-2-yl(propyl)amino)-2-(trifluoromethyl)benzonitrile (3ac);



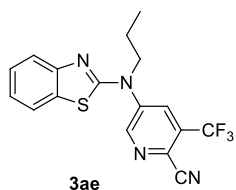
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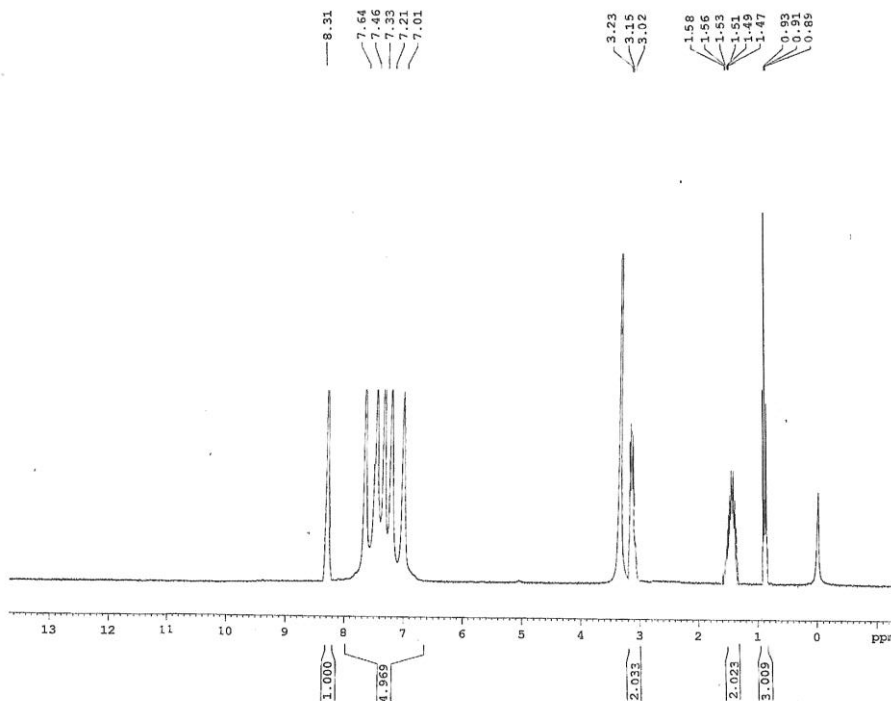
4-(benzo[d]thiazol-2-yl(ethyl)amino)-2-fluoro-N-methylbenzamide (3ad);



5-(benzo[d]thiazol-2-yl(propyl)amino)-3-(trifluoromethyl)picolinonitrile (3ae);



3012



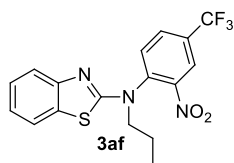
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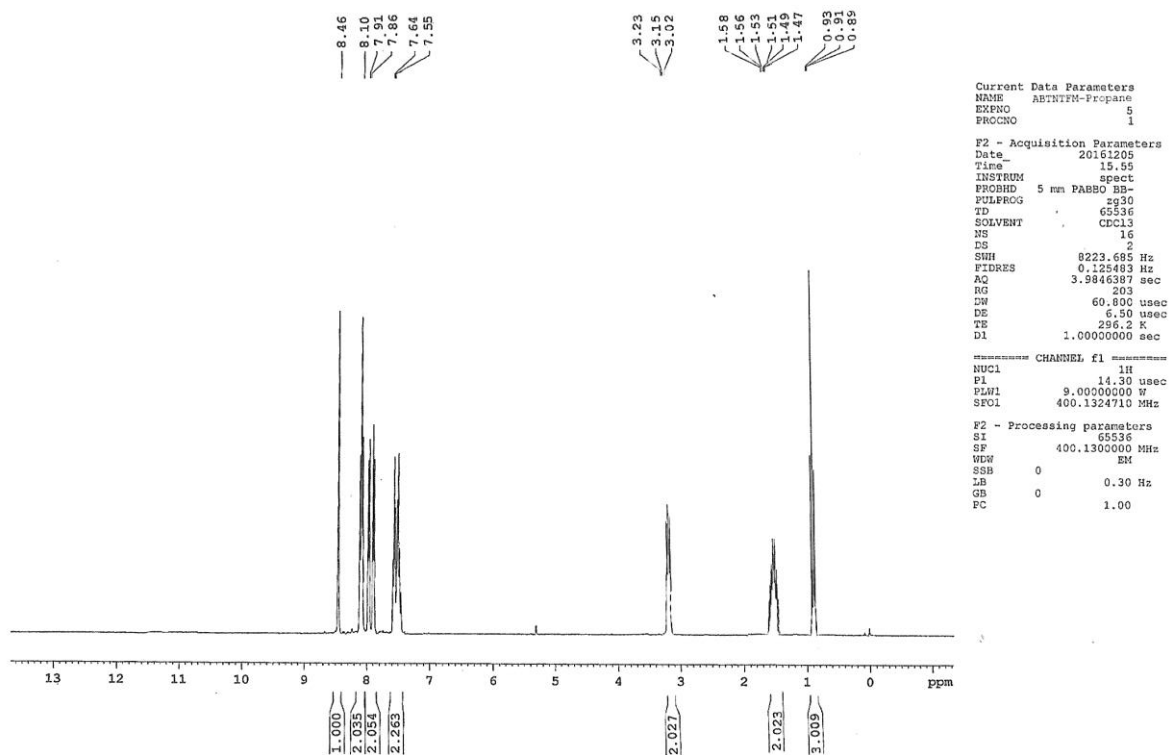
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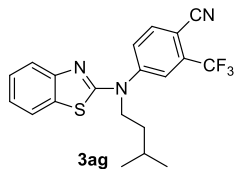
N-(2-nitro-4-(trifluoromethyl)phenyl)-N-propylbenzo[d]thiazol-2-amine (3af);



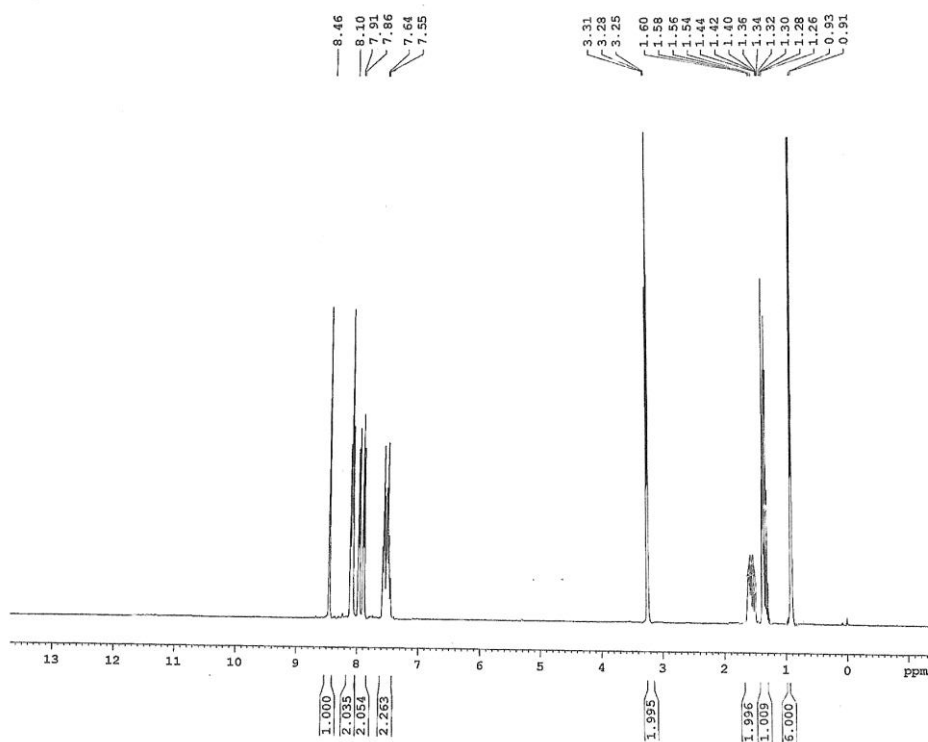
3af



4-(benzo[d]thiazol-2-yl(isopentyl)amino)-2-(trifluoromethyl)benzonitrile (3ag);



3ag



```

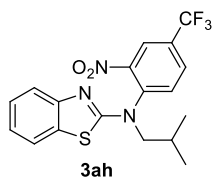
Current Data Parameters
NAME      ABF-TFMBI-0908
EXPNO    9
PROCNO   1

F2 - Acquisition Parameters
Date_    20161205
Time     17:58
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  zg30
TD        65536
SOLVENT  CDCl3
NS        16
DS        2
SWH       8223.685 Hz
FIDRES   0.125483 Hz
AQ        3.9846387 sec
RG        203
DN        60.800 usec
DE        6.50 usec
TE        296.2 K
D1        1.0000000 sec

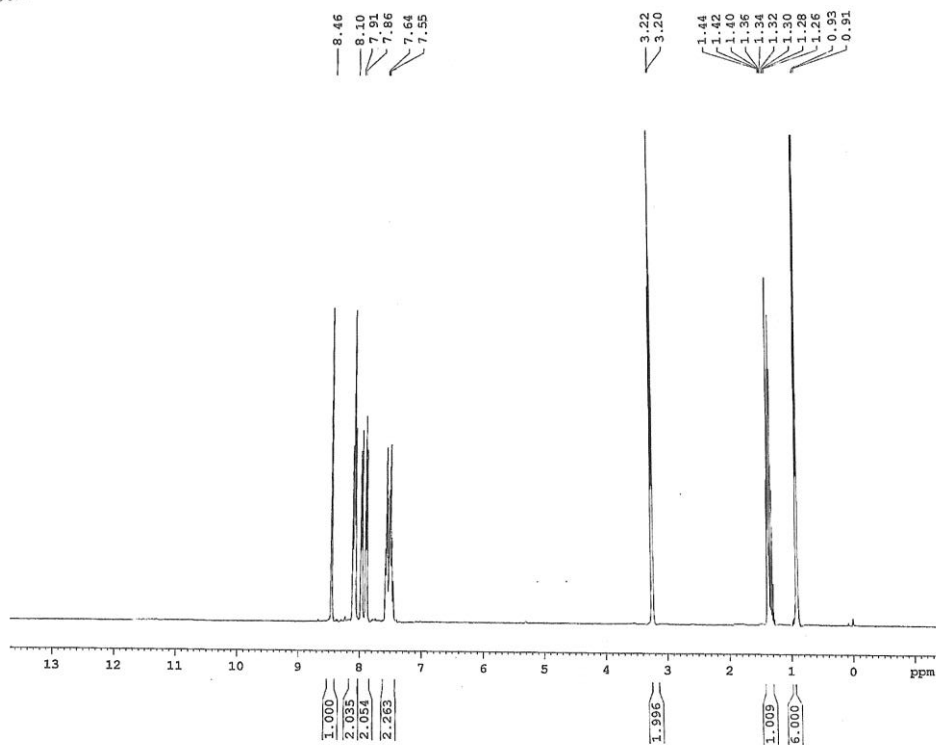
===== CHANNEL f1 =====
NUC1      1H
P1        14.30 usec
PLW1     9.0000000 W
SF01     400.1324710 MHz

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


N-isobutyl-N-(2-nitro-4-(trifluoromethyl)phenyl)benzo[d]thiazol-2-amine (3ah);



3ah



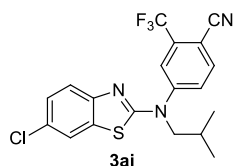
Current Data Parameters
 NAME ABT-7FMNitroIbn
 EXPRD 8
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20161205
 Time_ 15.58
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SMH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 203
 EN 60.800 usec
 DE 6.50 usec
 FE 296.2 K
 DI 1.0000000 sec

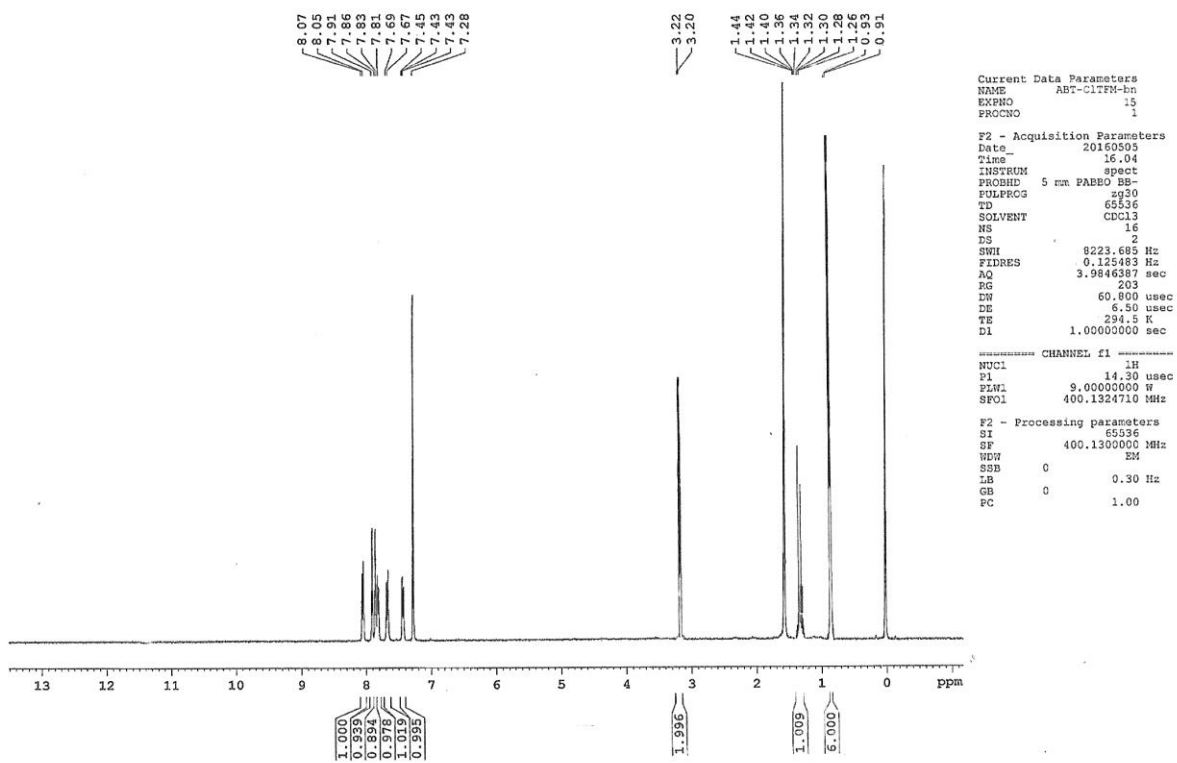
===== CHANNEL f1 =====
 NUCL1 1H
 P1 14.30 usec
 PLW1 9.00300000 W
 SF01 400.1324710 MHz

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

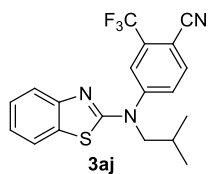
4-((6-chlorobenzo[d]thiazol-2-yl)(isobutyl)amino)-2-(trifluoromethyl)benzonitrile
(3ai);



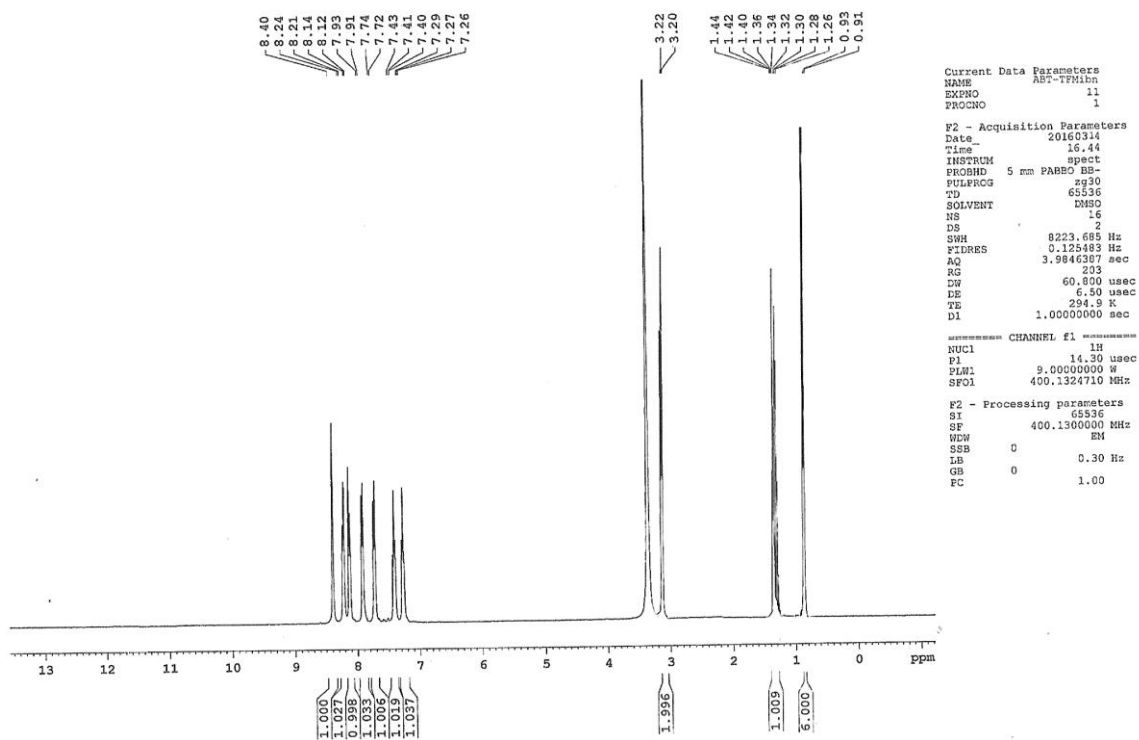
3ai



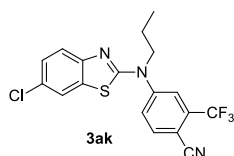
4-(benzo[d]thiazol-2-yl(isobutyl)amino)-2-(trifluoromethyl)benzonitrile (3aj);



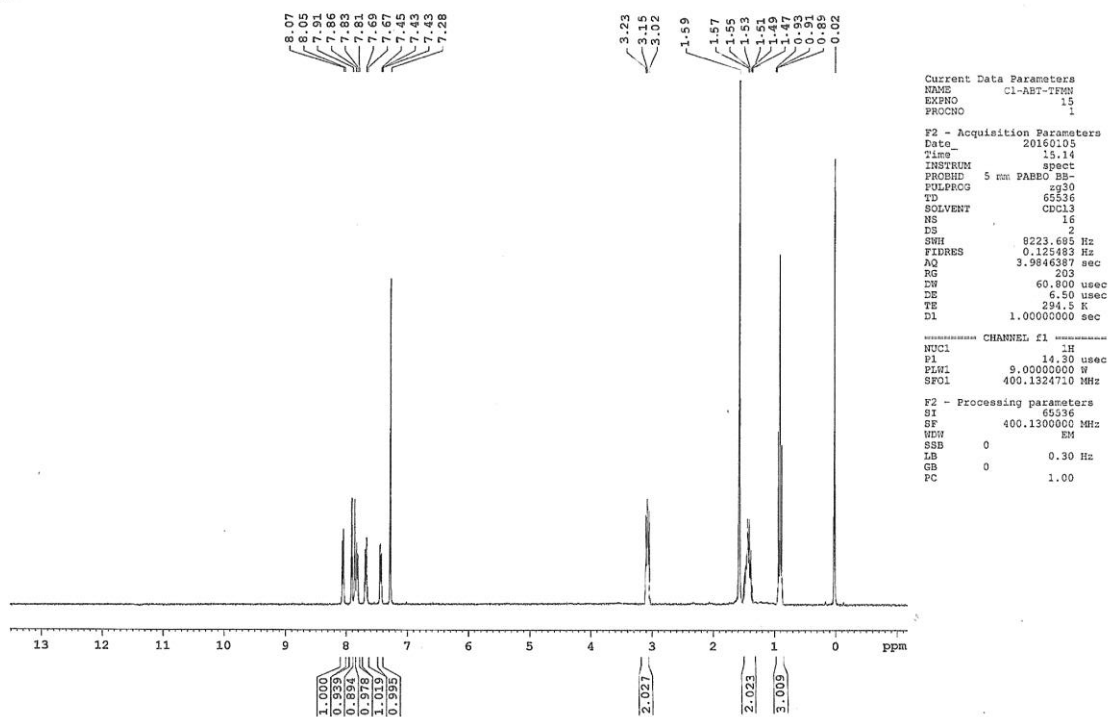
3aj



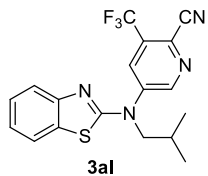
4-((6-chlorobenzo[d]thiazol-2-yl)(propyl)amino)-2-(trifluoromethyl)benzonitrile
(3ak);



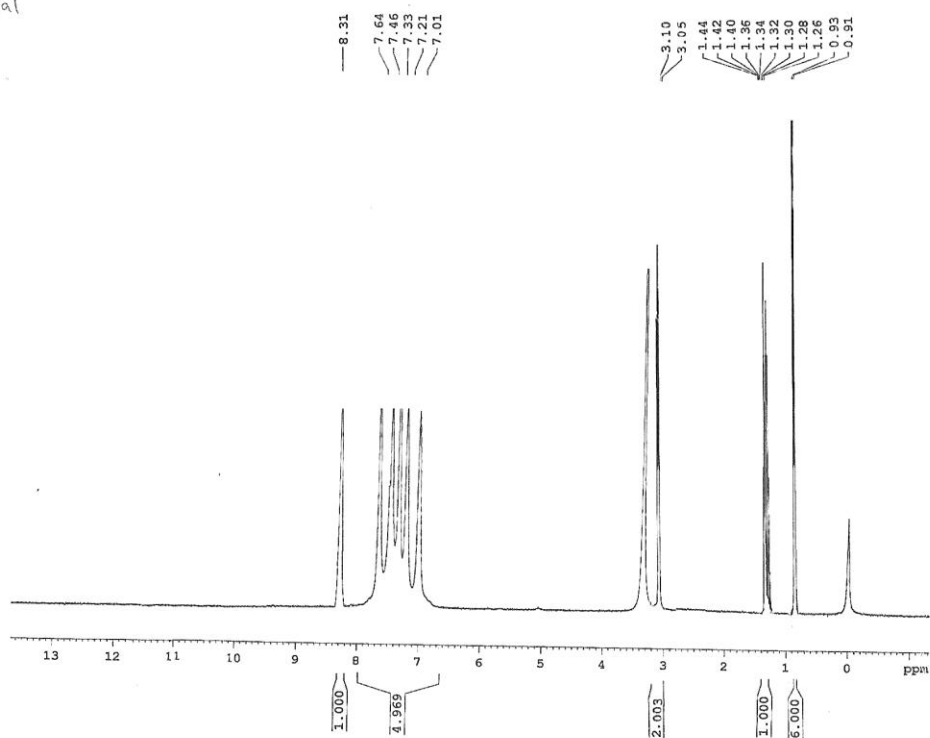
2ak



5-(benzo[d]thiazol-2-yl(isobutyl)amino)-3-(trifluoromethyl)picolinonitrile (3a1);



3a1



```

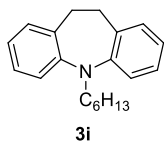
Current Parameters
NAME          ABT-TPPNEicobm
EXPNO         21
PROCNO        1

F2 - Acquisition Parameters
Date_         20160811
Time          12.28
INSTRUM      spect
PROBHD      5 mm PABBO BB-
PULPROG      zg30
TD           65536
SOLVENT      DMSO
NS           16
DS           2
SWH          8023.685 Hz
FIDRES       0.125483 Hz
AQ           3.9846387 sec
RG           203
DW           60.800 usec
DE           6.50 usec
TE           295.7 K
D1           1.0000000 sec

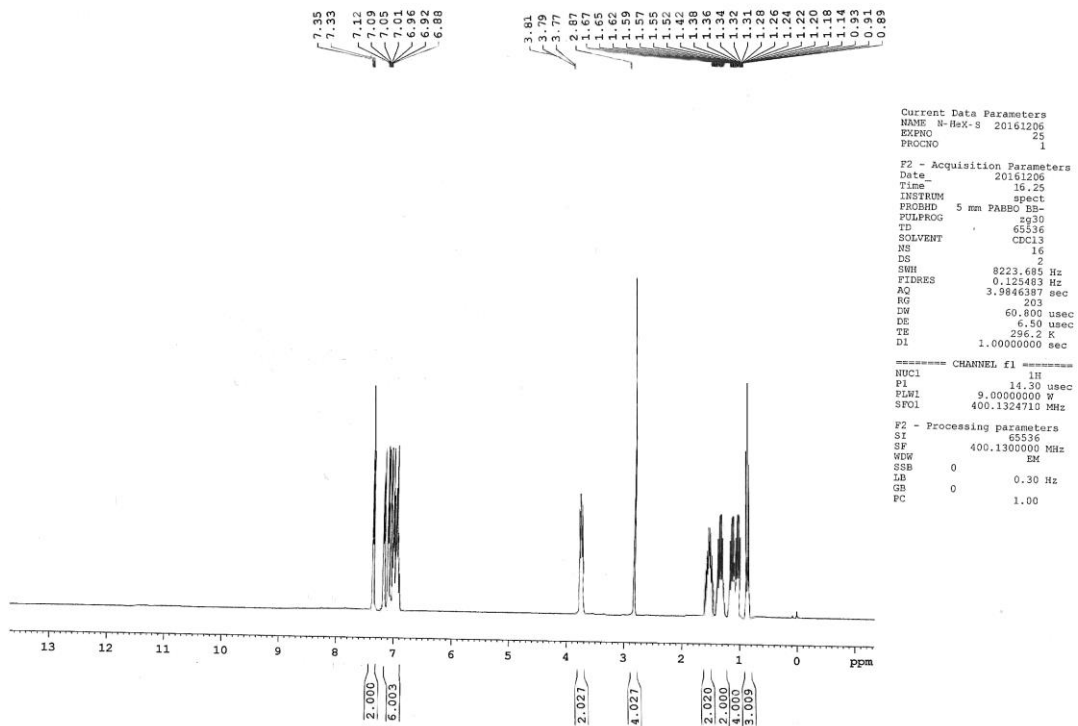
===== CHANNEL f1 =====
NUC1         1H
P1           14.30 usec
PL1         9.0000000 W
SFO1        400.1324710 MHz

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

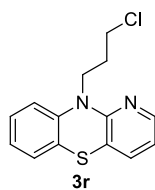
5-hexyl-10,11-dihydro-5H-dibenzo[b,f]azepine



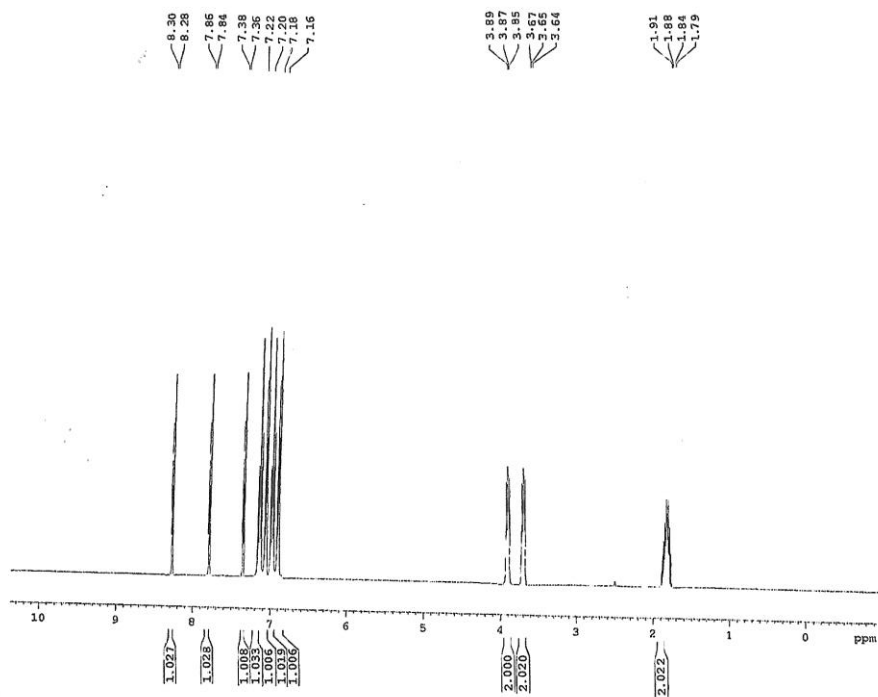
3i



10-(3-chloropropyl)-10H-benzo[b]pyrido[2,3-e][1,4]thiazine



3r



```

Current Data Parameters
NAME      22012017
EXPNO     1
PROCNO    1

F2 - Acquisition Parameter
Date_     22012017
Time      15.57
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zg
TD         65536
TE        300.2
SOLVENT   DMSO
NS         32
DS         4
SWH        8223.685 Hz
FIDRES     0.123483 Hz
AQ         3.9046307 sec
RG         40.3
DW         60.800 usec
DE         8.50 usec
TE        293.2 K
D1         2.00000000 sec

===== CHANNEL f1 =====
NUC1       1H
P1         13.50 usec
PLM1       0.00000000 Hz
SFO1       400.1324708 MHz

F2 - Processing parameters
SI         32768
SF         400.1300000 MHz
WDW        EM
SSB        0
GB         0
PC         1.40
    
```