

**Pivalic acid assisted Biginelli reaction for synthesis of Dihydropyrimidinones and
Dihydrothiopyrimidinones**

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Teotone Vaz, Shashank N. Mhaldar[#]**

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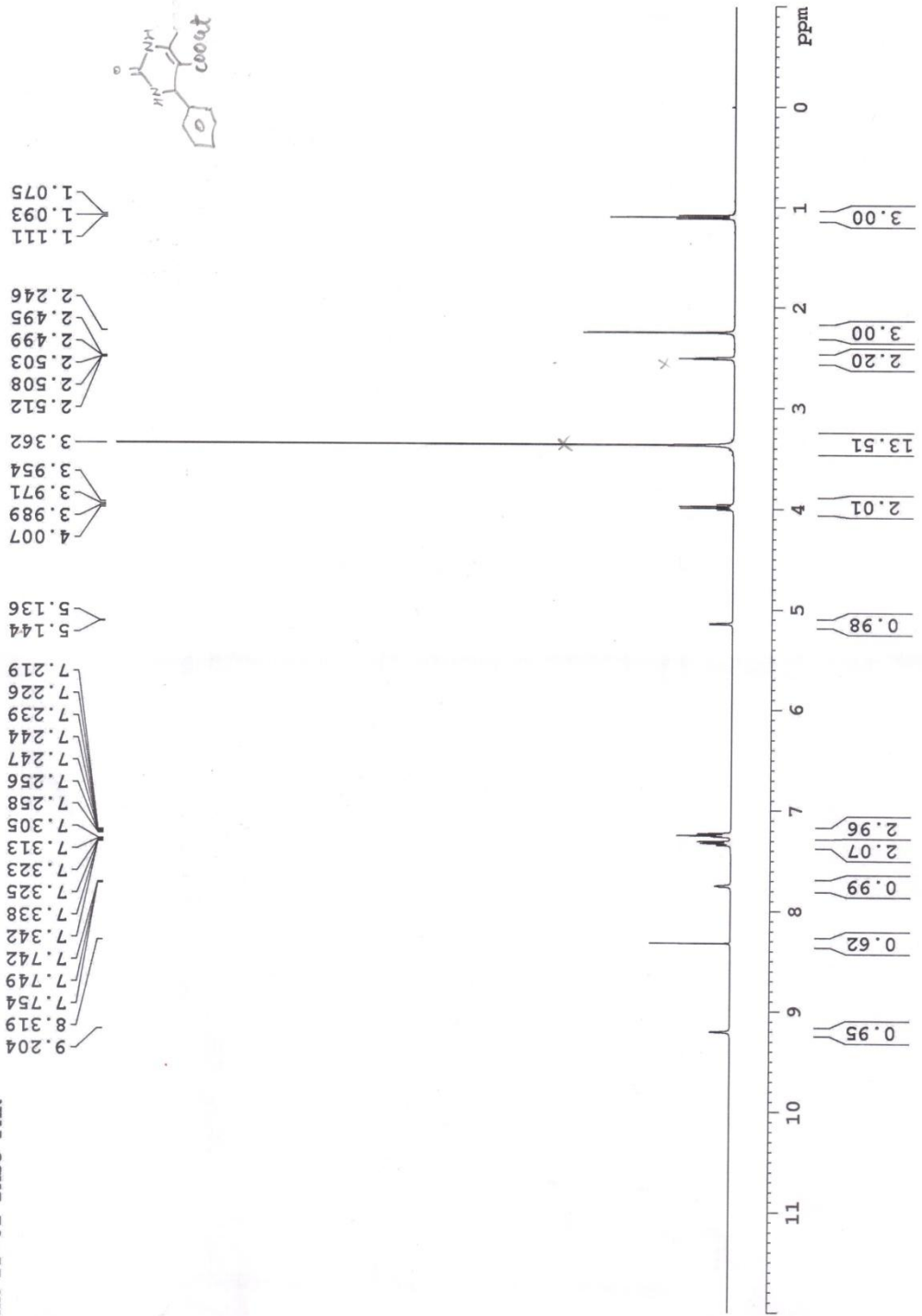
[#] Department of Chemistry, Goa University, Taleigao Plateau, Goa – 403206 India

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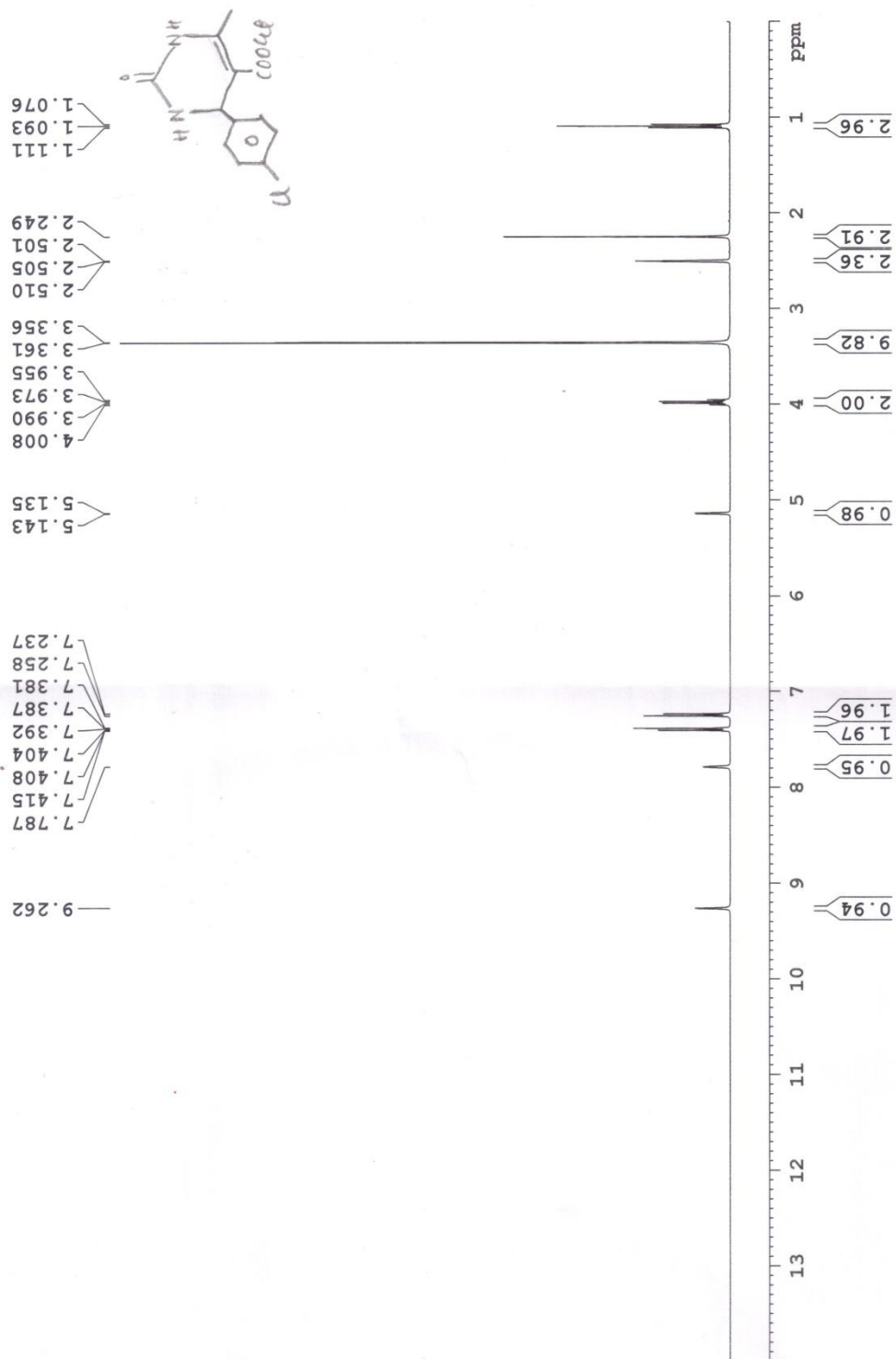
SUPPORTING INFORMATION

General Information: Reagents were purchased from Sigma-Aldrich and were used without further purification. IR spectra were recorded with Thermo Fischer Scientific FTIR instrument. ¹H NMR spectra were recorded in DMSO-d₆ with Bruker AVANCE 400 MHz NMR Spectrometer.

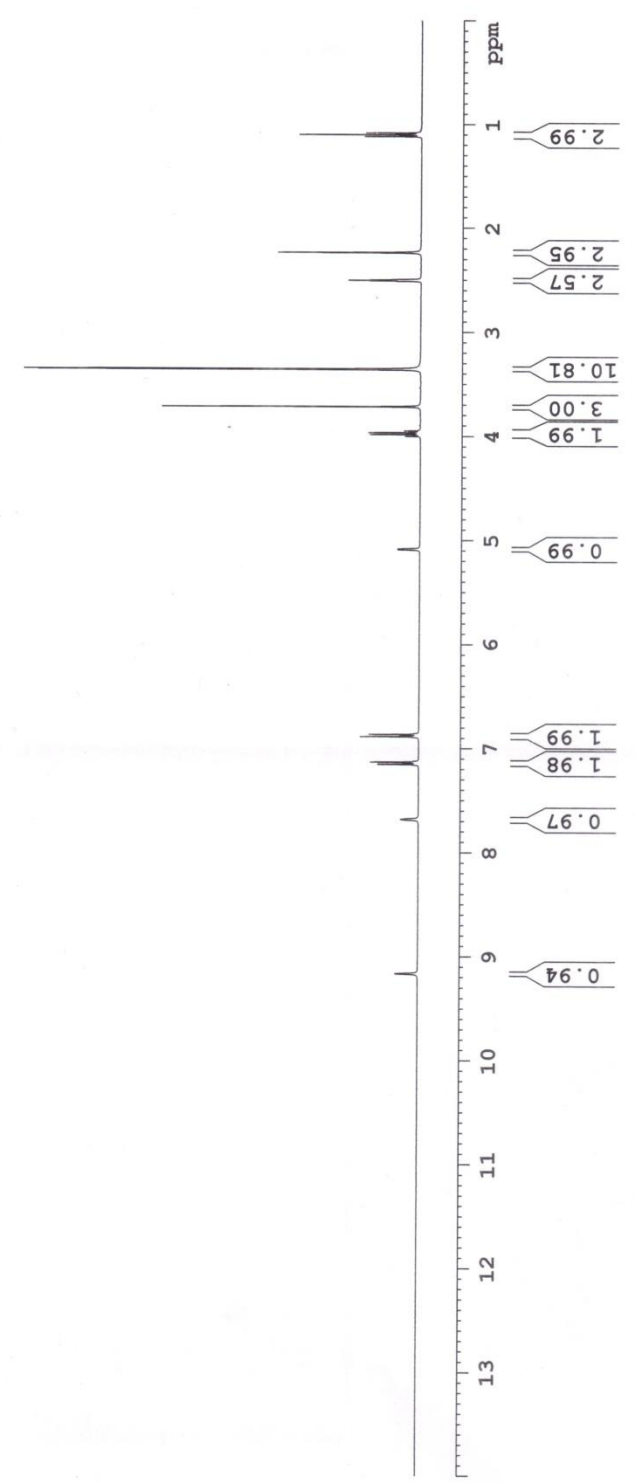
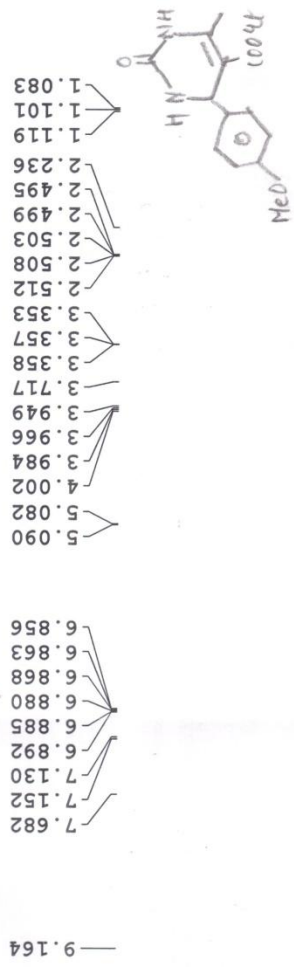
HK-DP-01 DMSO PMR



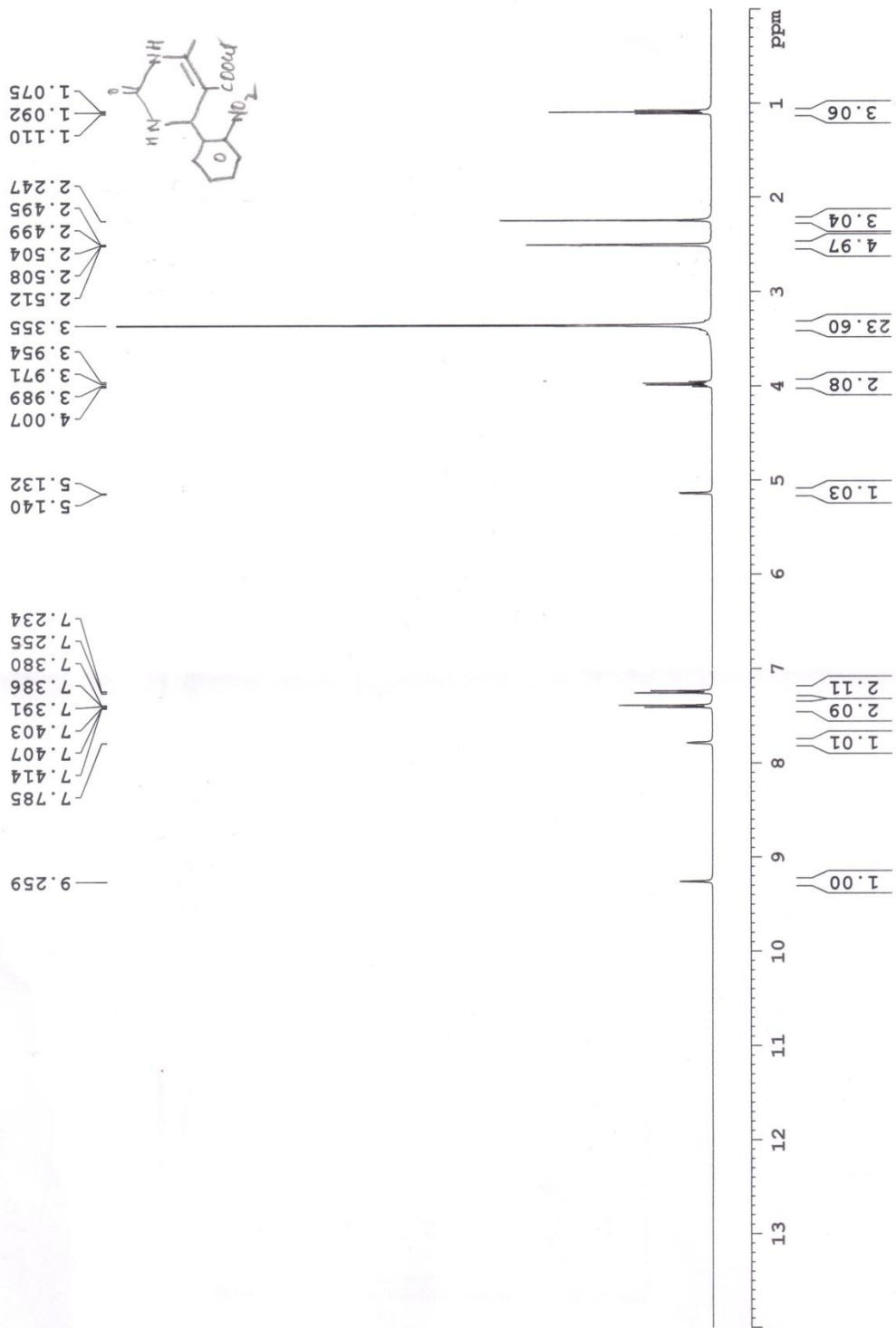
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HK-DP-04 DMSO PMR

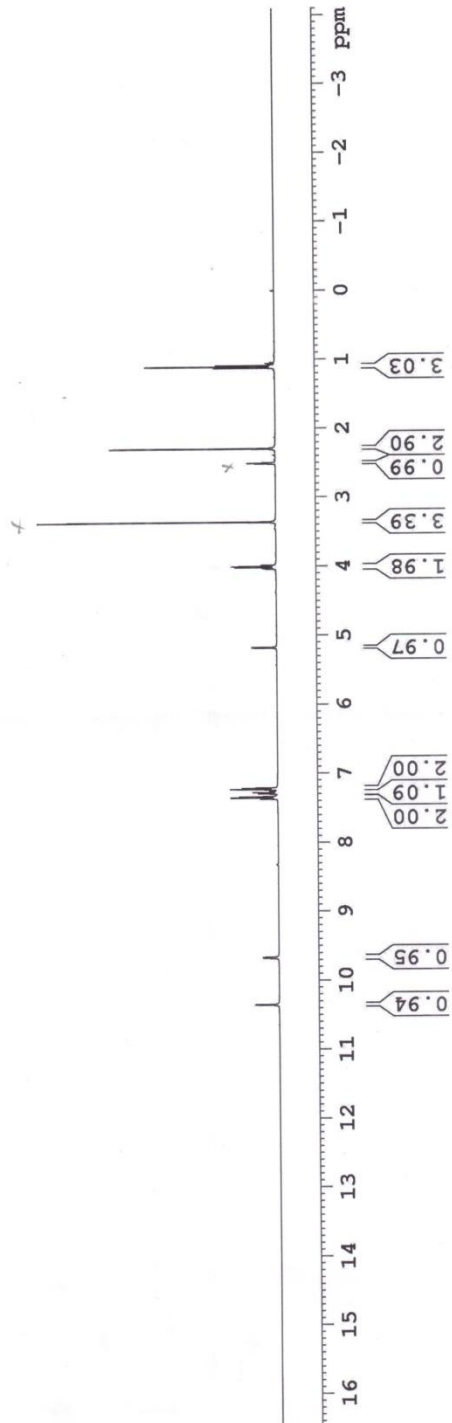
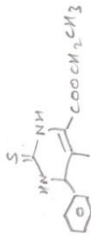


HK-DP-05 DMSO PMR

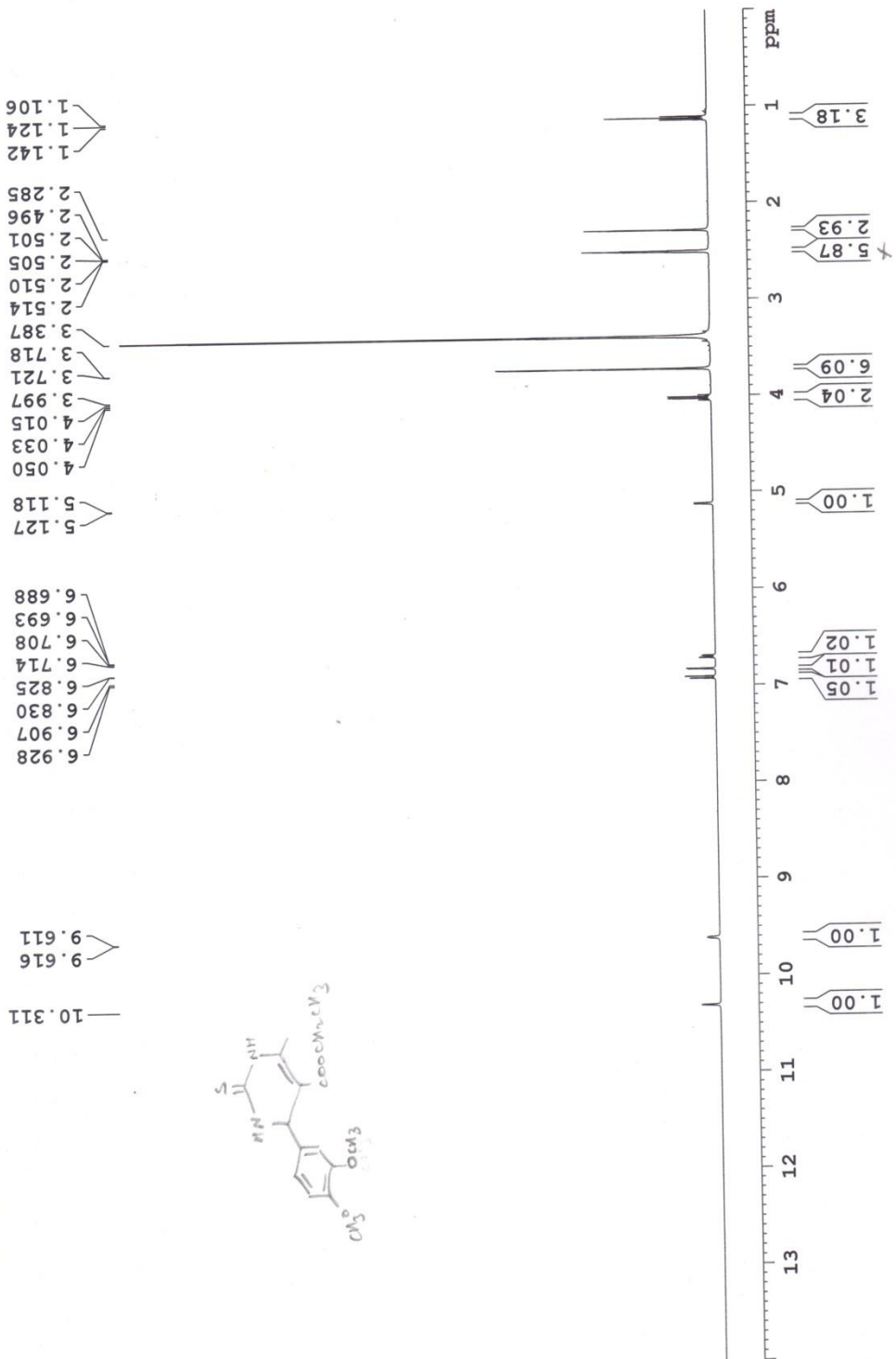


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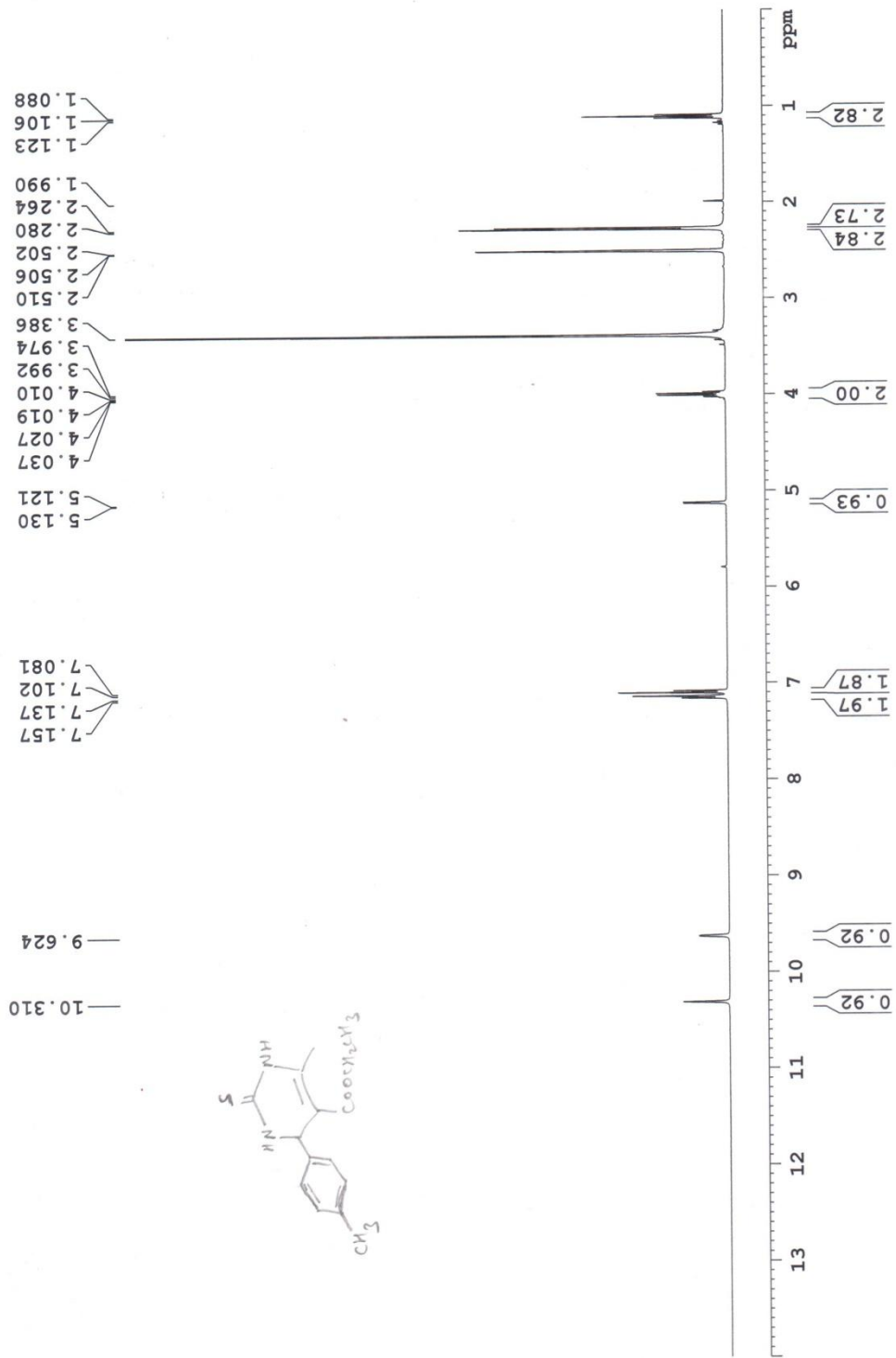
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9.668
7.370
7.366
7.352
7.349
7.333
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7.292
7.289
7.279
7.274
7.256
7.232
7.229
7.211
5.178
5.169
4.036
4.019
4.001
3.983
3.588
2.513
2.508
2.504
2.500
2.495
2.293
1.119
1.101
1.084
1.057



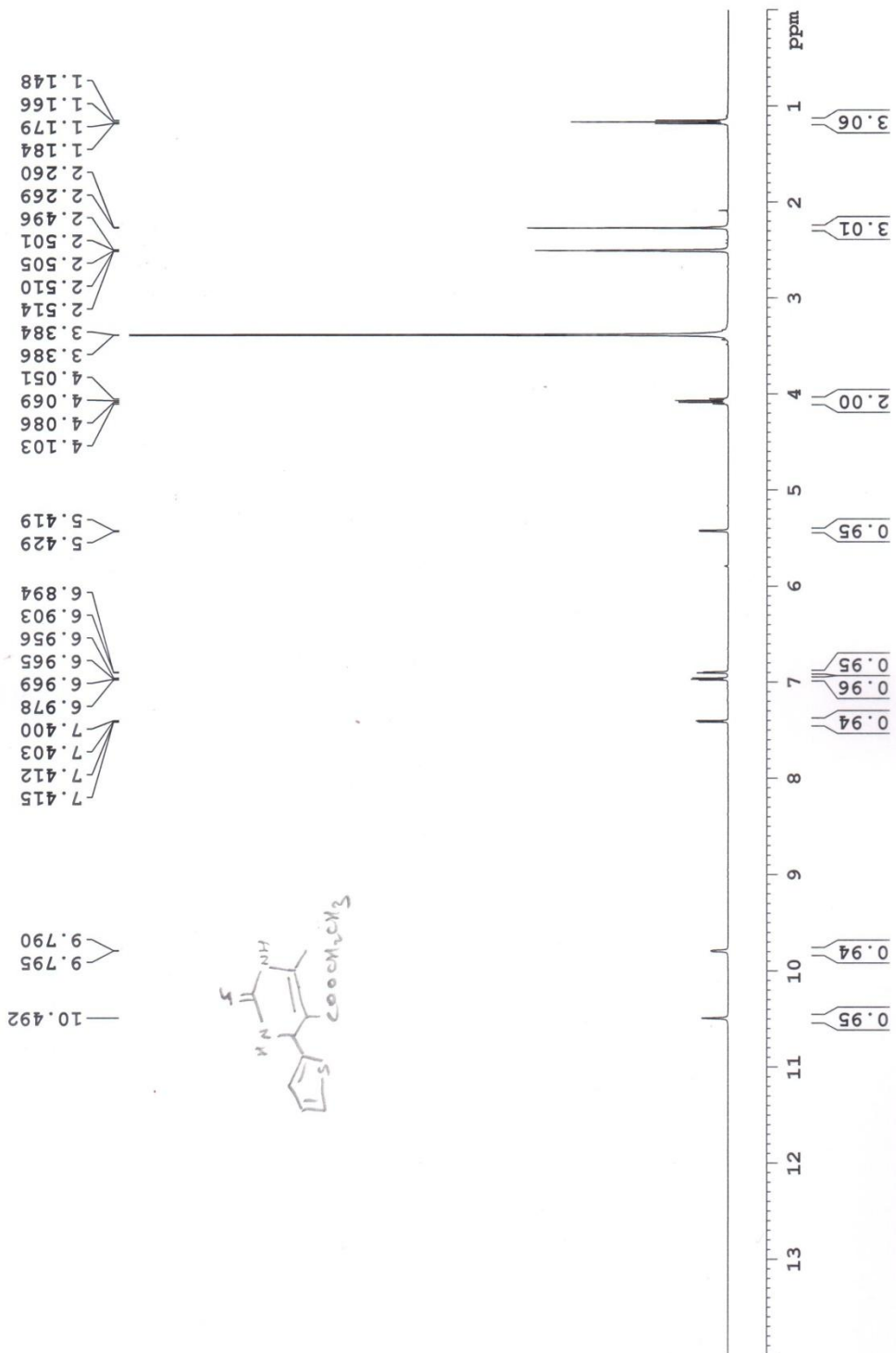
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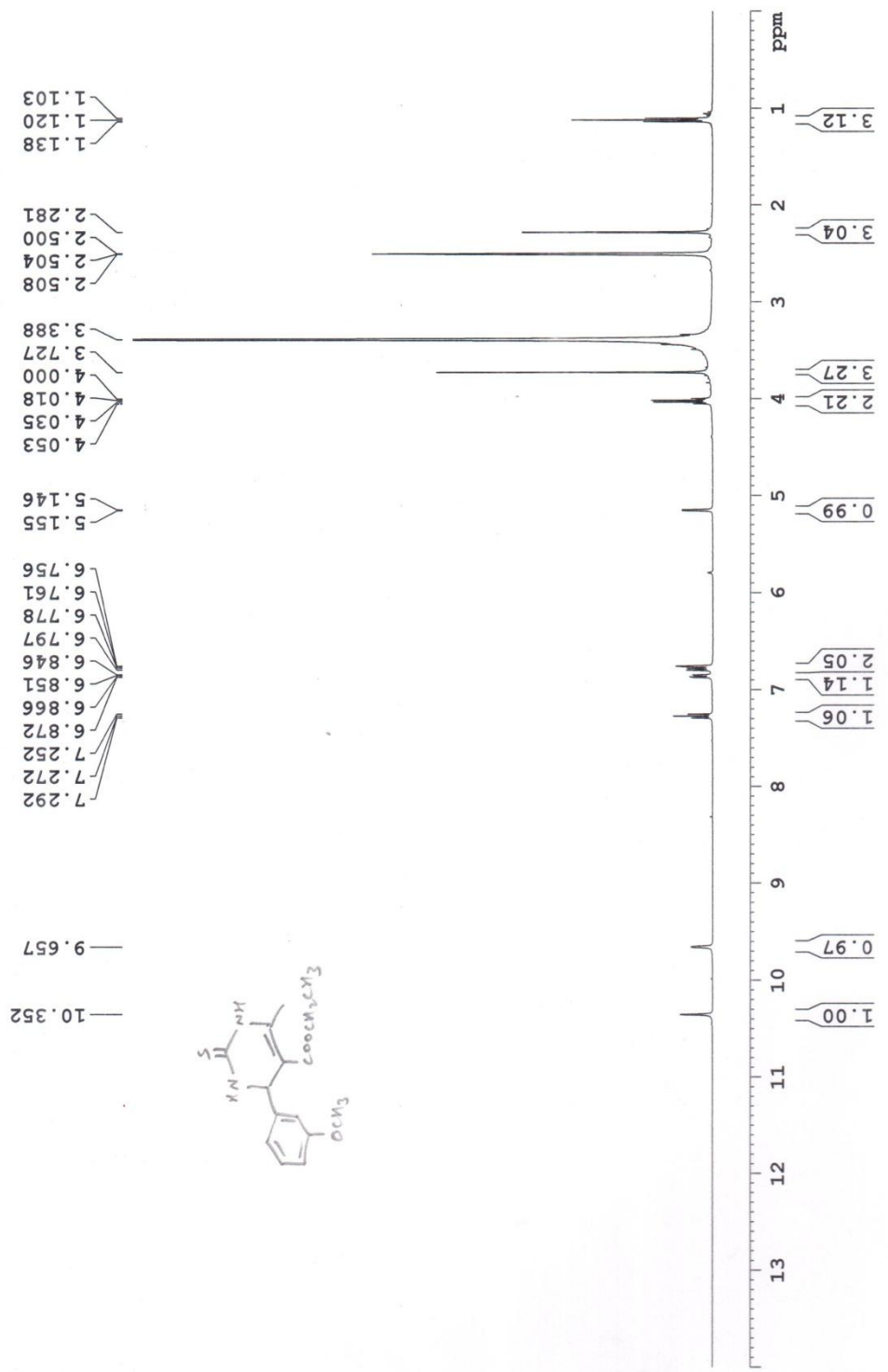
HK-DPT-05 DMSO PMR
90



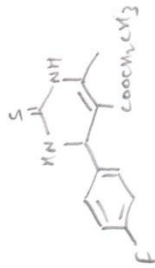
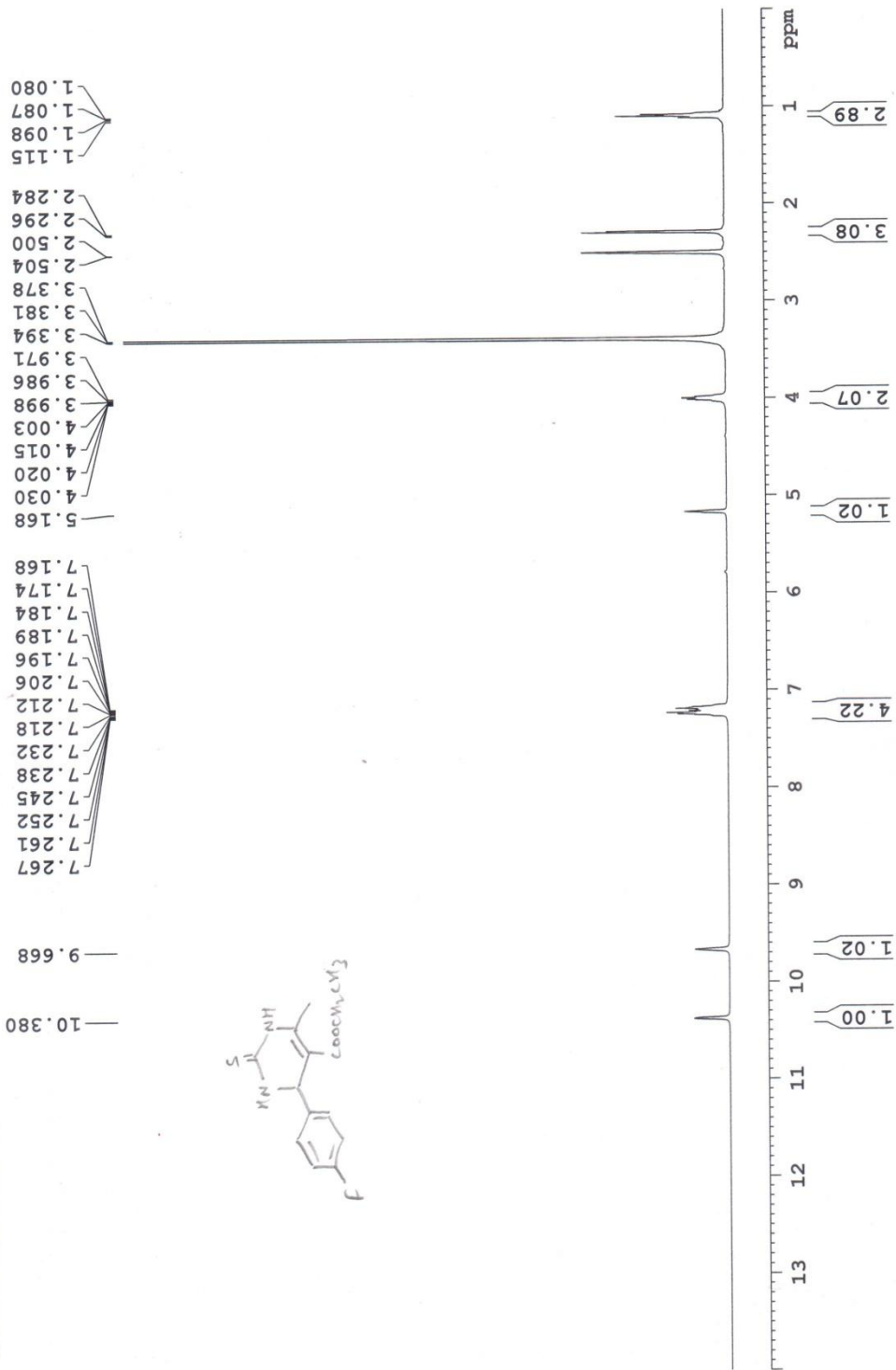
HK-DPT-08 DMSO PMR



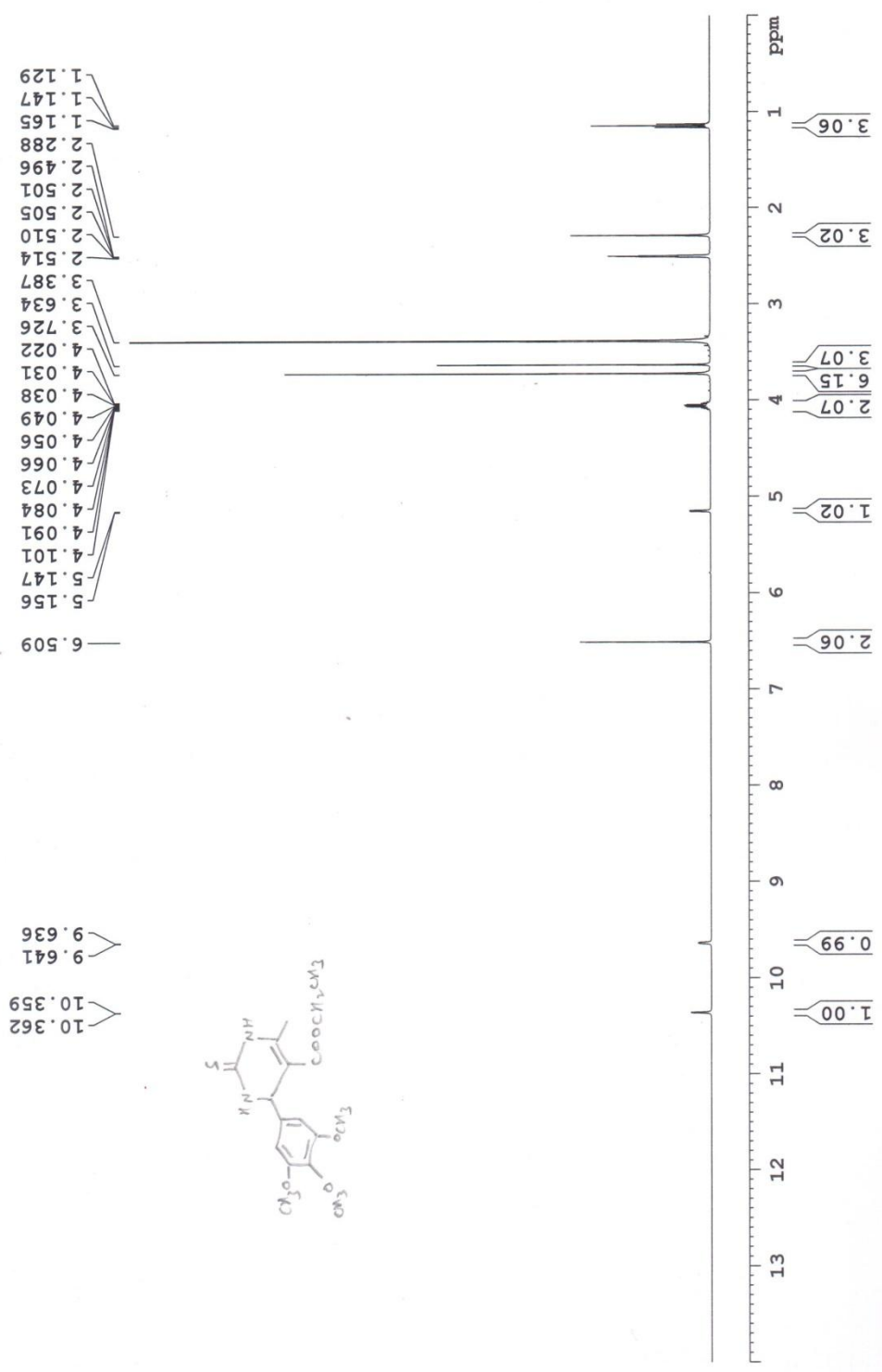
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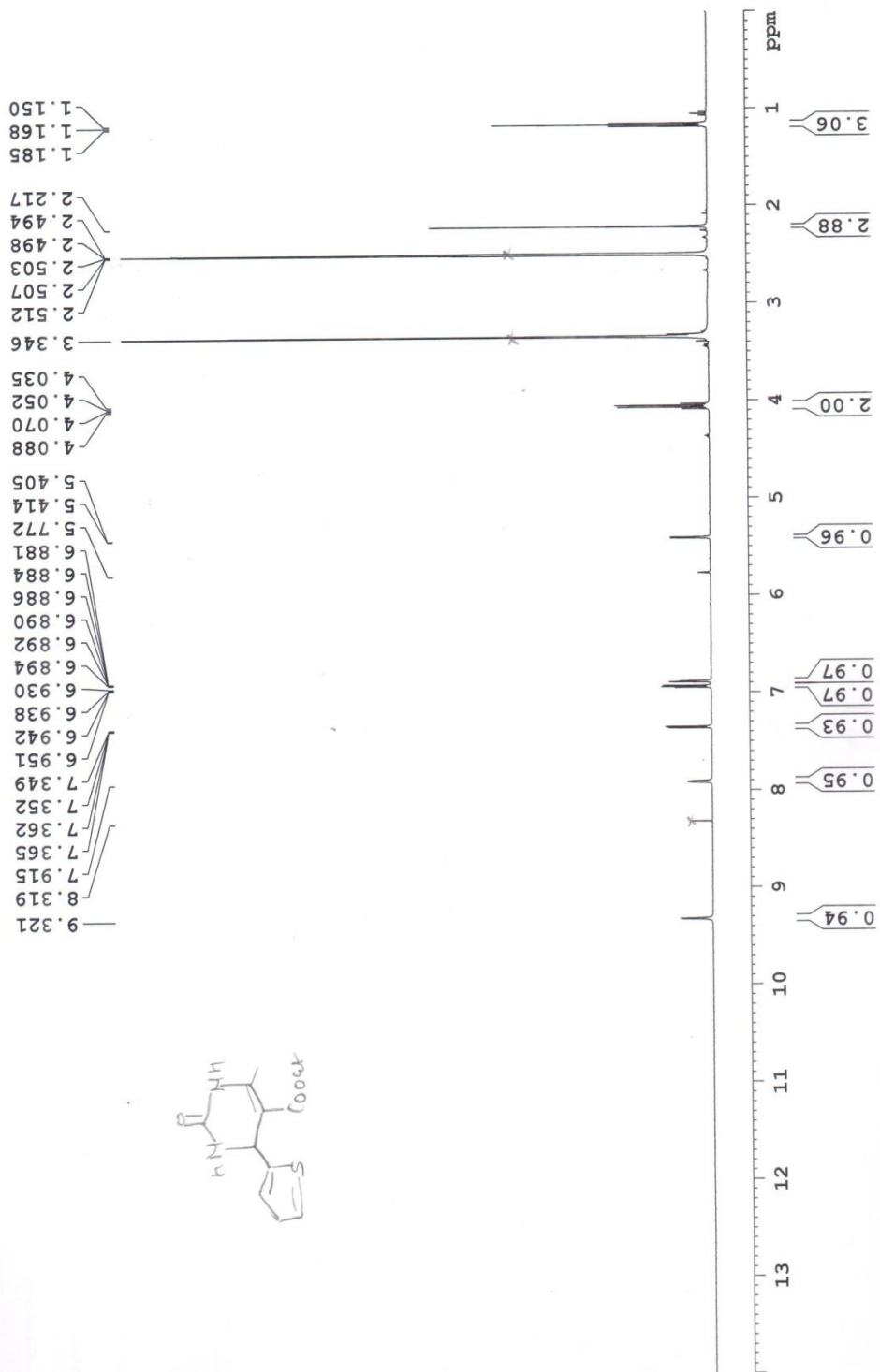
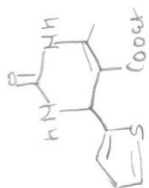
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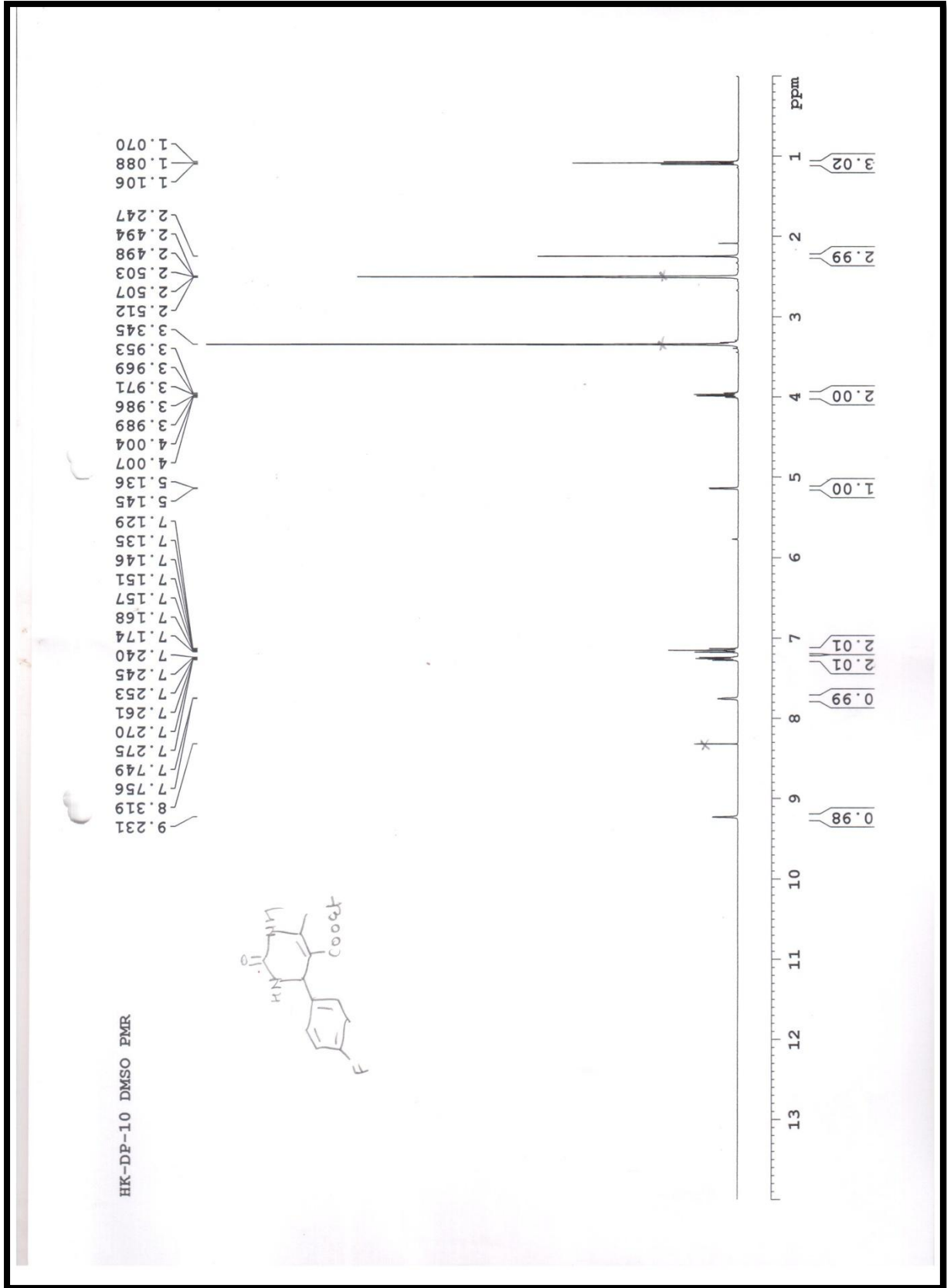


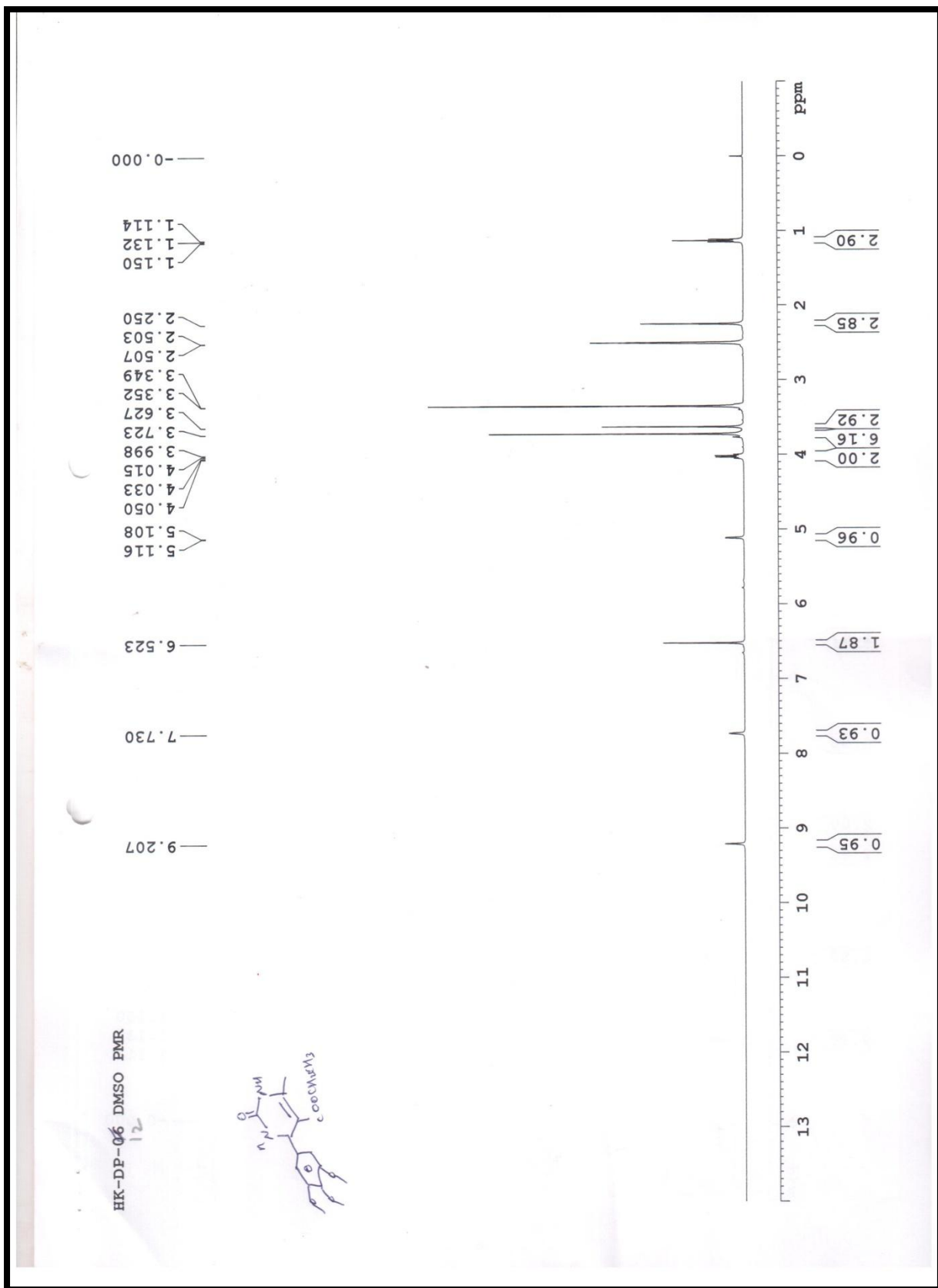
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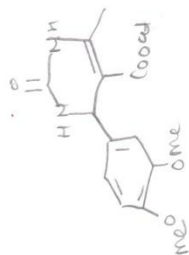
HK-DP-08 DMSO PMR



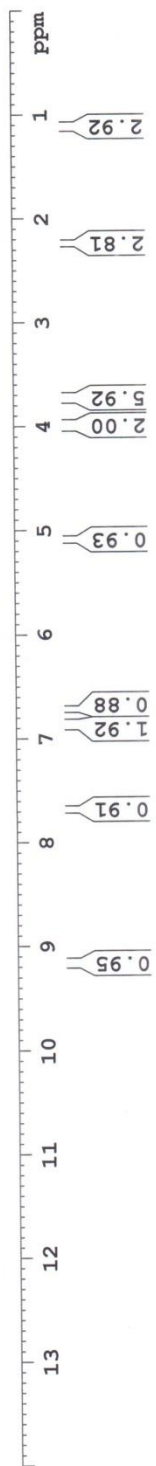




HK-DP-11 DMSO PMR

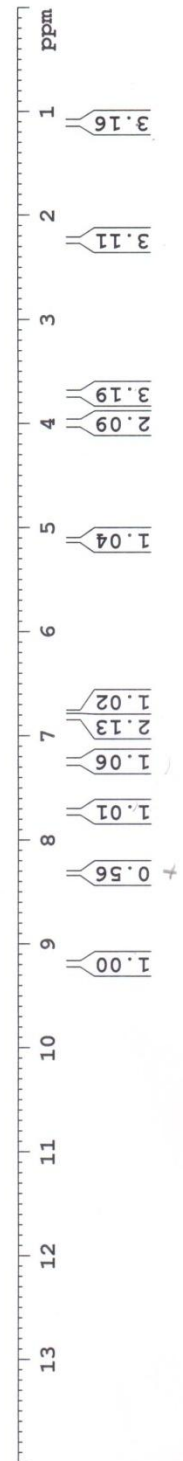
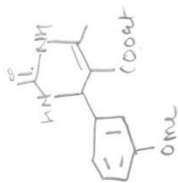


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8.319
7.687
7.682
6.900
6.879
6.843
6.838
6.732
6.727
6.711
6.706
5.097
5.089
4.022
4.005
3.987
3.970
3.713
3.347
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2.507
2.503
2.498
2.494
2.241
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1.117
1.099



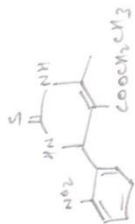
HK-DP-09 DMSO PMR

9.194
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7.263
7.243
7.224
6.836
6.830
6.821
6.818
6.809
6.802
6.779
6.774
6.769
5.120
5.112
4.023
4.005
3.987
3.970
3.351
2.507
2.503
2.499
2.240
1.128
1.111
1.093



HK-DPT-06 DMSO PMR

10.486
9.632
7.955
7.953
7.935
7.932
7.790
7.787
7.771
7.768
7.752
7.749
7.572
7.569
7.551
7.534
7.530
7.527
7.510
7.507
5.951
3.930
3.912
3.903
3.894
3.885
3.876
3.869
3.867
3.861
3.852
3.843
3.834
3.825
3.385
2.514
2.509
2.505
2.501
2.496
2.311
0.936
0.919



HK-DPT-04 DMSO PMR

