

Table S1. The common chemical identifiers of compound 2.(chemical structure lookup service (CSLS), <https://cactus.nci.nih.gov/>)

Structure Identifier	Representation of the Identifier
Chemical Name	2-butyl-6-phenyl-4,5-dihydropyridazin-3(2 <i>H</i>)-one
Chemical Formula	C ₁₄ H ₁₈ N ₂ O
Molecular Weight	230.309
CAS Registry Number	1532529-93-3
Standard InChIKey	WVMAESKYYZHCBP-UHFFFAOYSA-N
Standard InChI	1S/C14H18N2O/c1-2-3-11-16-14(17)10-9-13(15-16)12-7-5-4-6-8-12/h4-8H,2-3,9-11H2,1H3
SMILES	<chem>CCCCN1N=C(CCC1=O)c2ccccc2</chem>
FICTS	4D7287724021B36A-FICTS-01-12
FICuS	4D7287724021B36A-FICuS-01-33
Uuuuu	4D7287724021B36A-uuuuu-01-E2
Cactvs HASHISY	4D72877240 21B36A

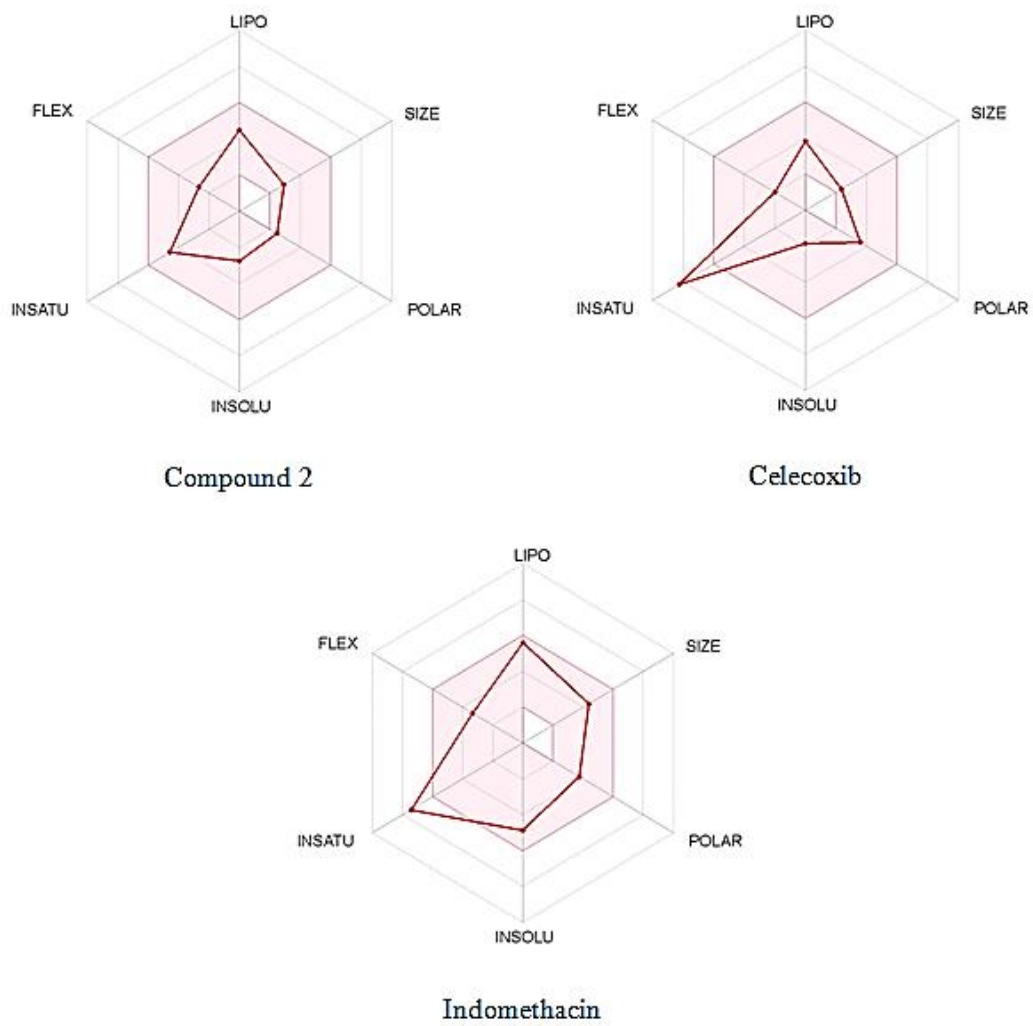


Figure S1. The bioavailability radar of compound 2, celecoxib, and indomethacin.

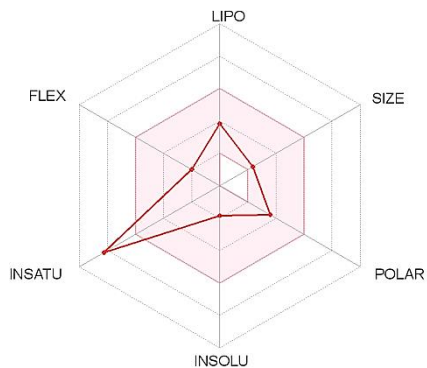


Figure S1-1: The bioavailability radar of aspirin

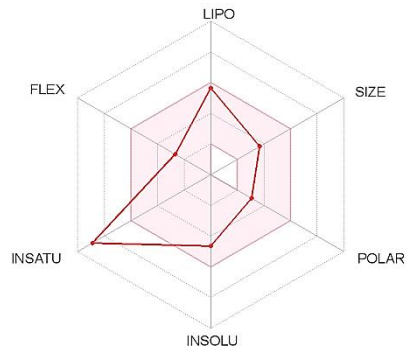


Figure S1-2: The bioavailability radar of diclofenac

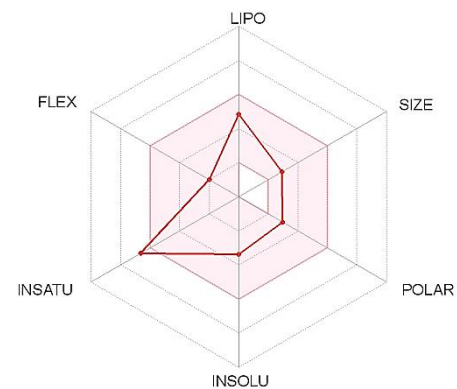


Figure S1-3: The bioavailability radar of naproxen

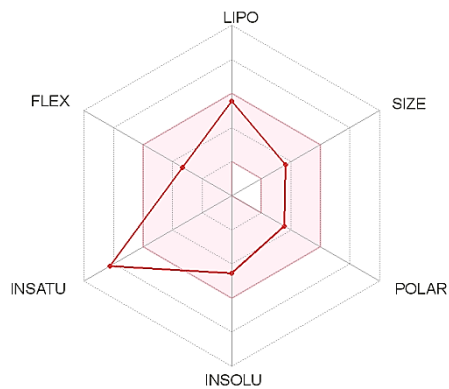


Figure S1-4: The bioavailability radar of oxaprozin

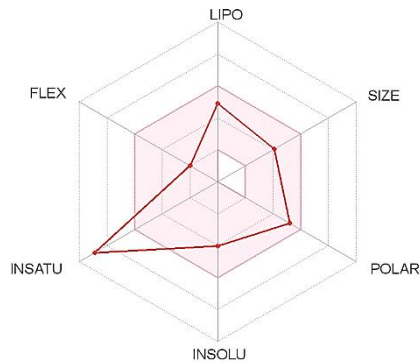


Figure S1-5: The bioavailability radar of piroxicam

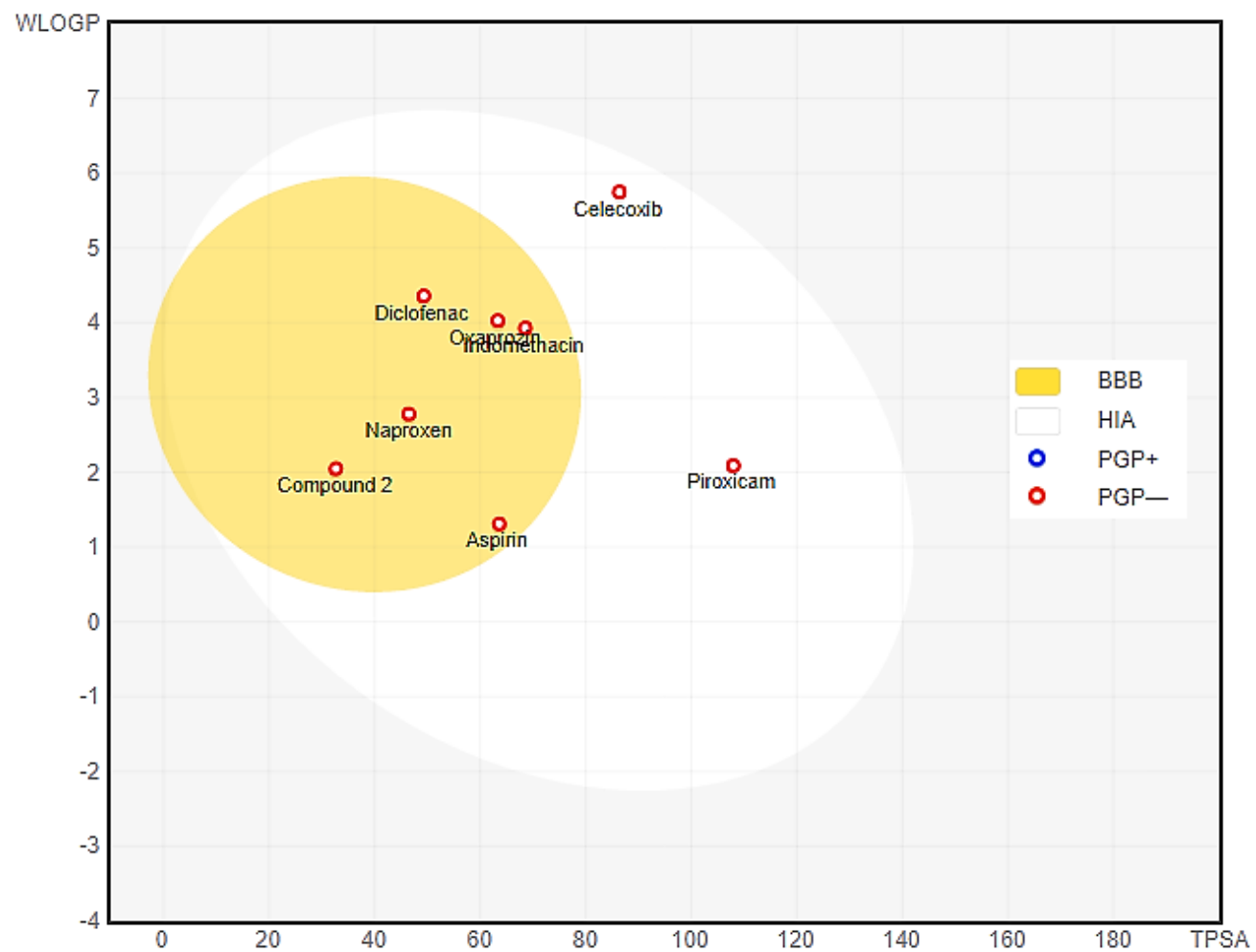


Figure S2. The BOILED-Egg model representation of compound 2 and selected NSAIDs.

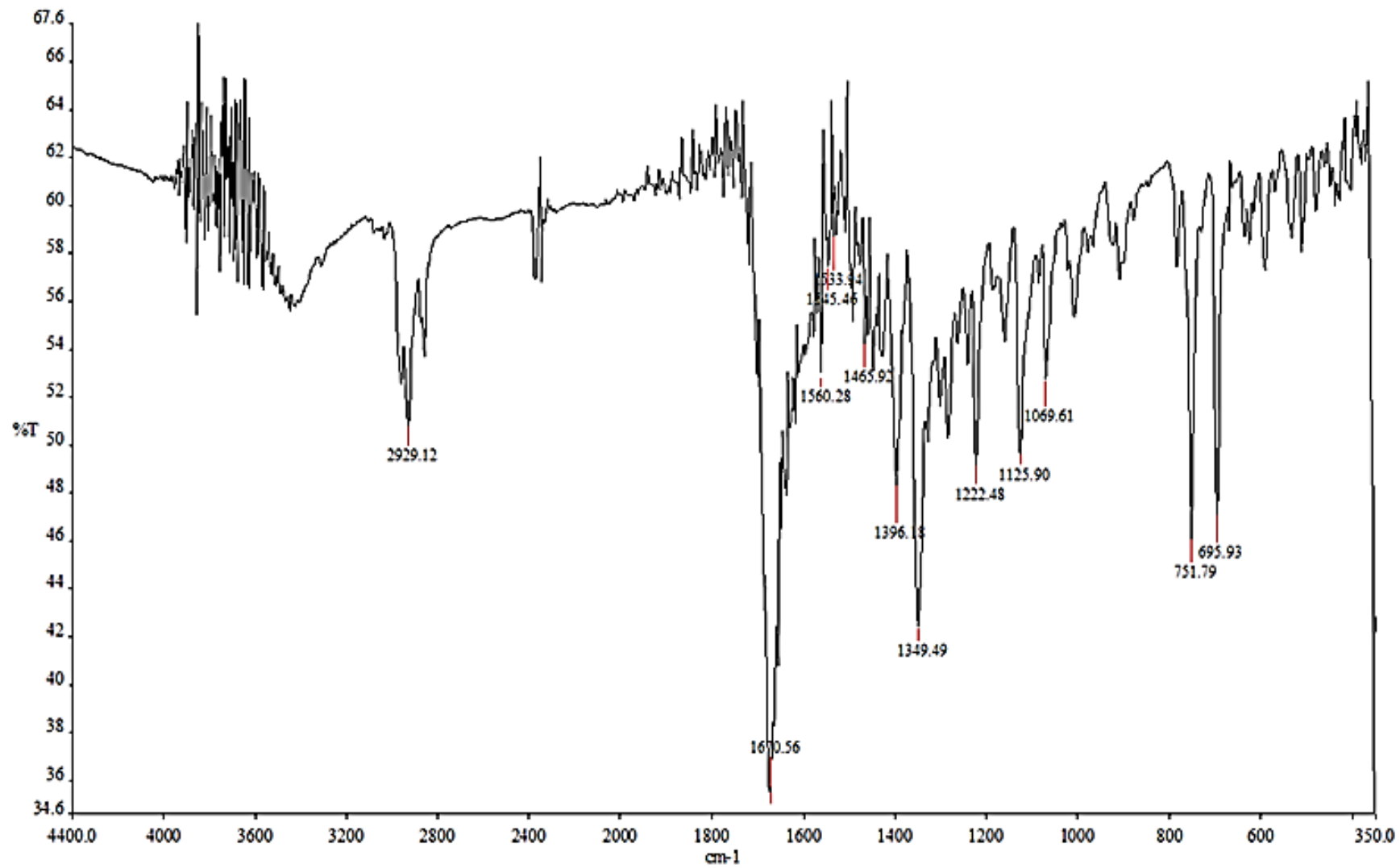


Figure S3. FTIR of compound 2

{C:\Bruker\TOPSP}

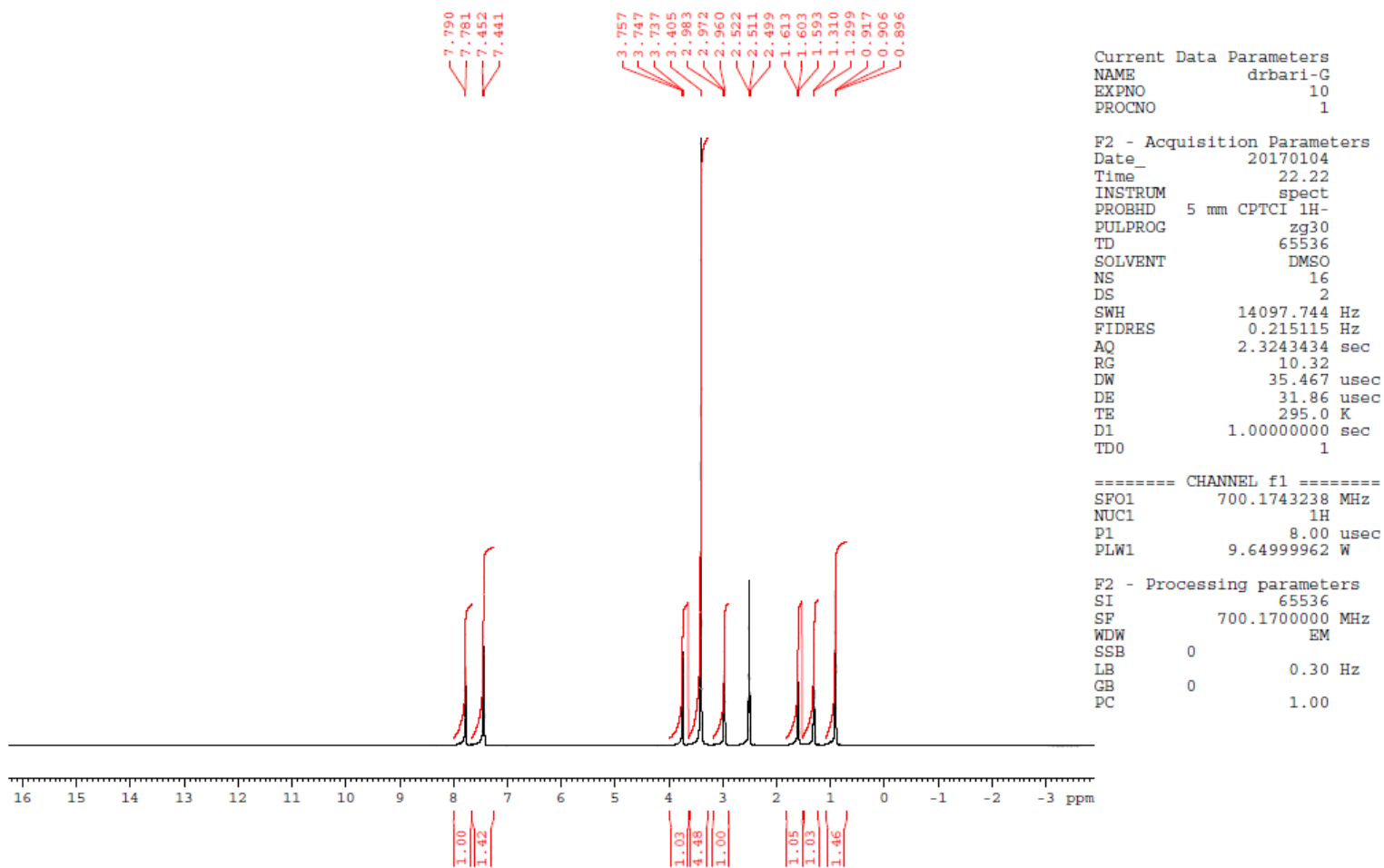


Figure S4. ¹H-NMR of compound 2.

C13CPD DMSO {C:\Bruker\TOPSPIN} abari 33

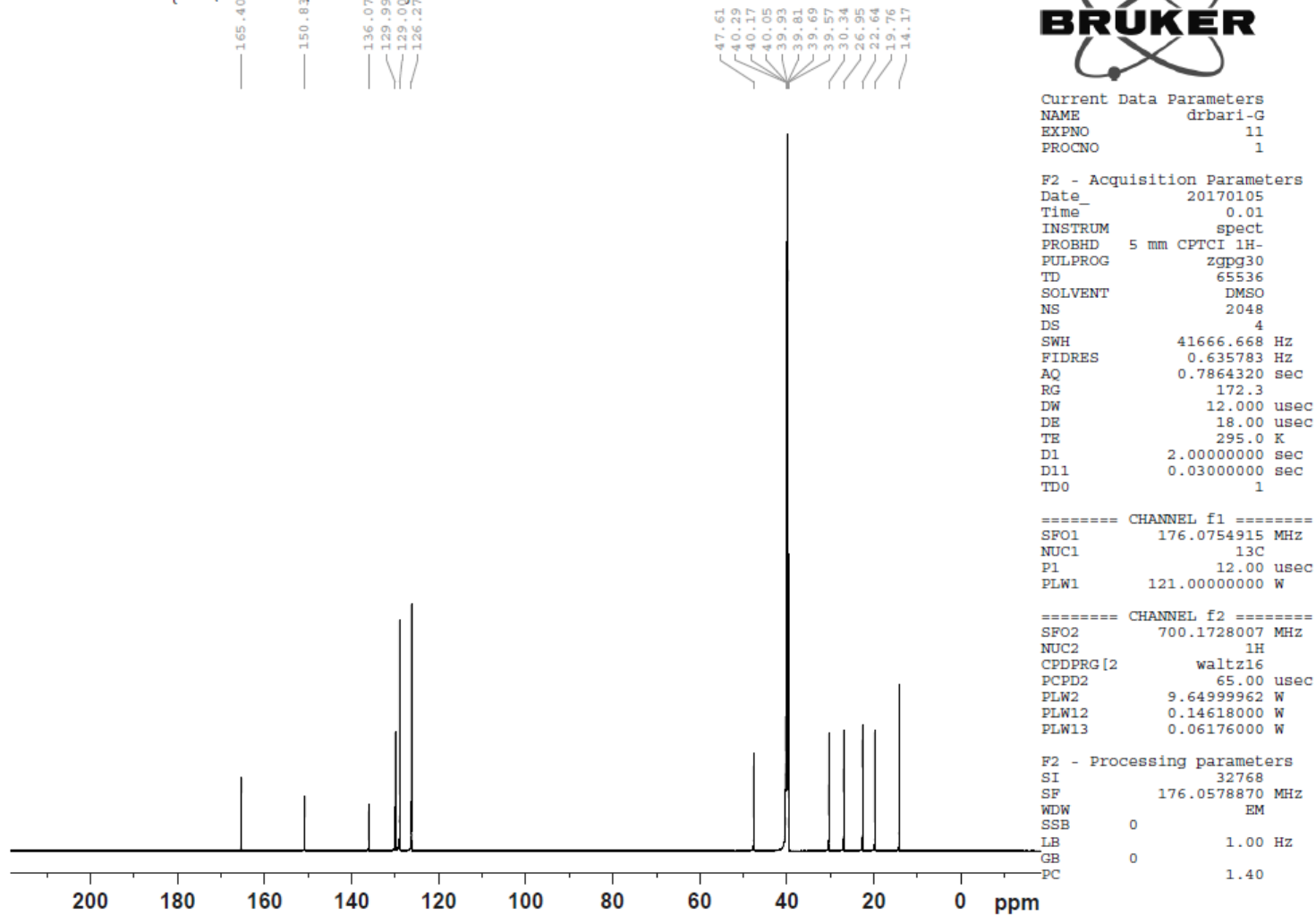


Figure S5. ¹³C-NMR of compound 2.

[Mass Spectrum]
Data : KSJ-DI-EI-R5k-DR.UBRID_G001 Date : 04-Jun-2017 12:54
Sample : -
Note : -
Inlet : Direct Ion Mode : EI+
Spectrum Type : Normal Ion (MF-Linear)
RT : 0.38 min Scan# : (4,10)
BP : m/z 158.9773 Int. : 340.55
Output m/z range : 50.0000 to 261.4243 Cut Level : 0.20 %

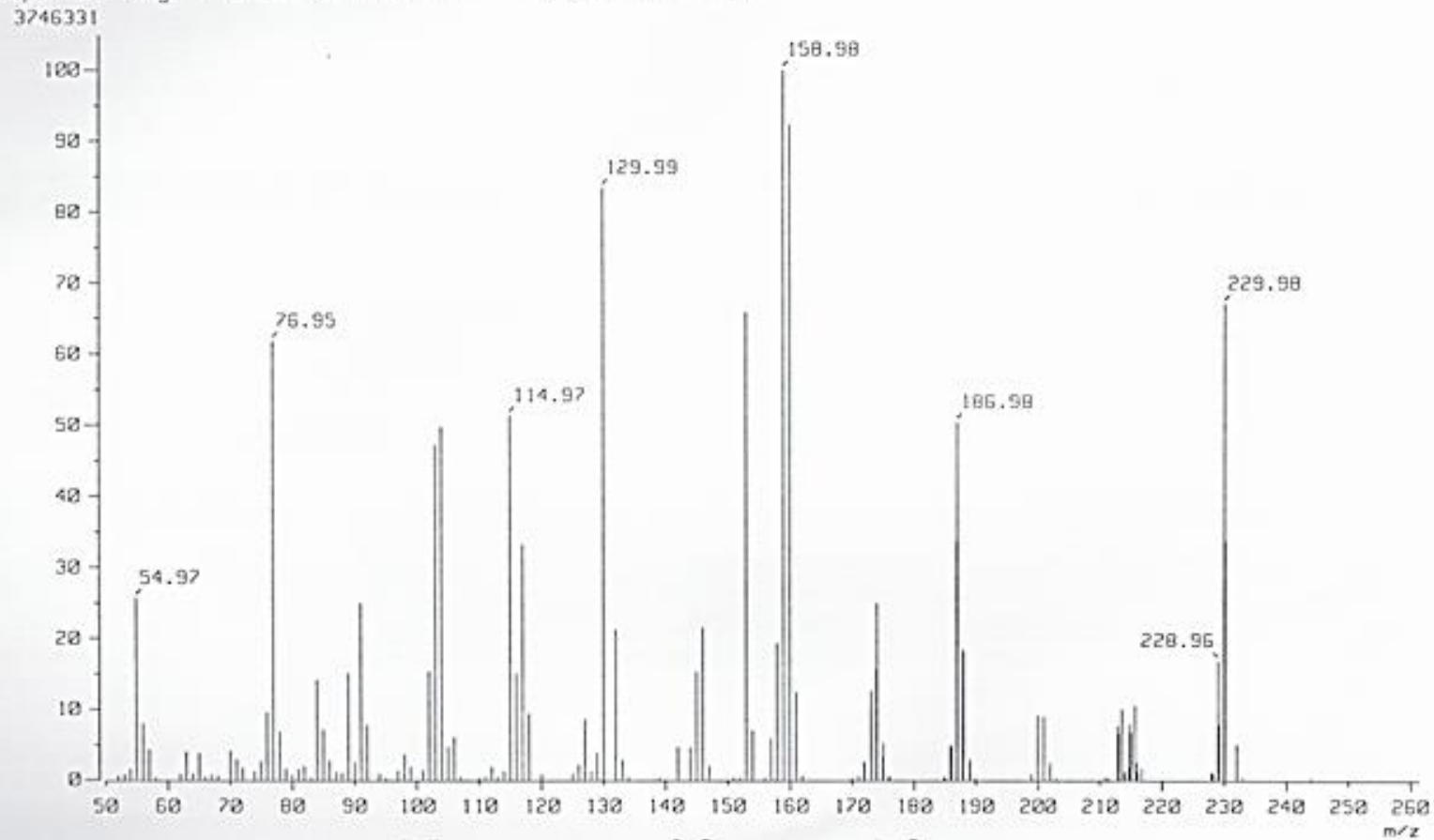


Figure S6. Mass spectra of compound 2.