

Article

Trifluoromethylated Flavonoid-Based Isoxazoles as Antidiabetic and Anti-Obesity Agents: Synthesis, *In Vitro* α -Amylase Inhibitory Activity, Molecular Docking, and Structure–Activity Relationship Analysis

Faisal K. Algethami ^{1,*}, Ilyes Saidi ², Hani Nasser Abdelhamid ³, Mohamed R. Elamin ¹, Babiker Y. Abdulkhair ¹, Amani Chrouda ⁴ and Hichem Ben Jannet ^{2,*}

¹ Department of Chemistry, College of Science, Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh 11432, Saudi Arabia; mohamedrahmt99@gmail.com (M.R.E.); babiker35.by@gmail.com (B.Y.A.)

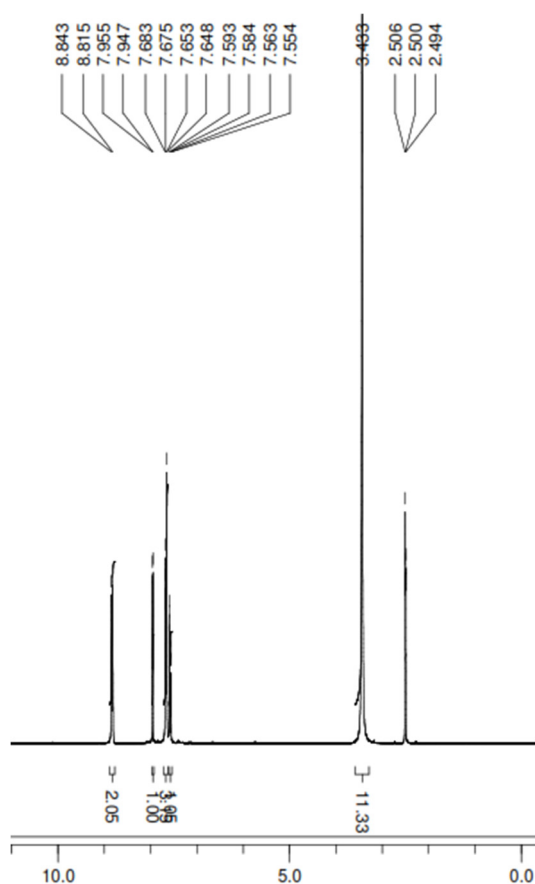
² Laboratory of Heterocyclic Chemistry, Natural Products and Reactivity (LR11ES39), Medicinal Chemistry and Natural Products Team, Faculty of Science of Monastir, University of Monastir, Avenue of Environment, Monastir 5019, Tunisia; sisoelyesaidi@live.fr

³ Department of Chemistry, Advanced Multifunctional Materials Laboratory, Faculty of Science, Assiut University, Assiut 71575, Egypt; chemist.hani@yahoo.com

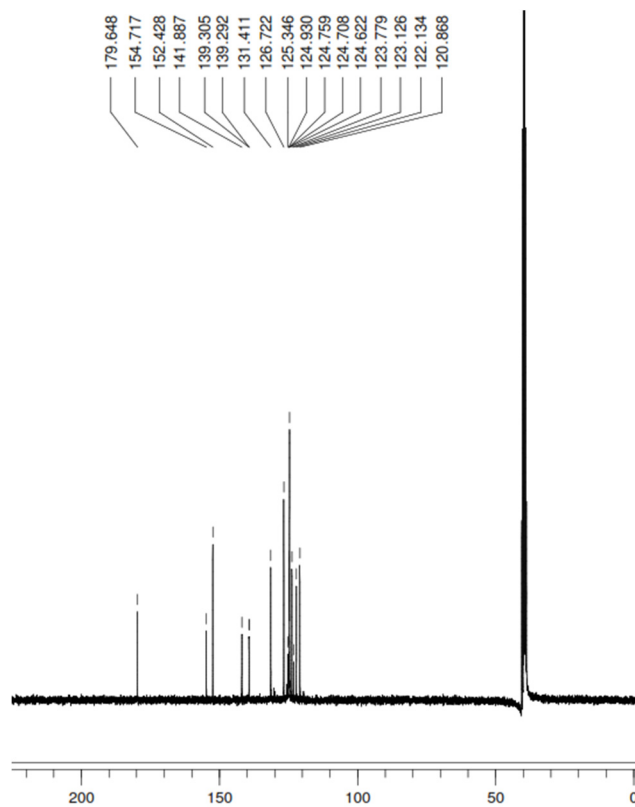
⁴ Department of Chemistry, College of Science Al-zulfi, Majmaah University, Al-Majmaah 11952, Saudi Arabia; amain.c@mu.edu.sa

* Correspondence: falgethami@imamu.edu.sa (F.K.A.); hichem.bjannet@gmail.com (H.B.J.)

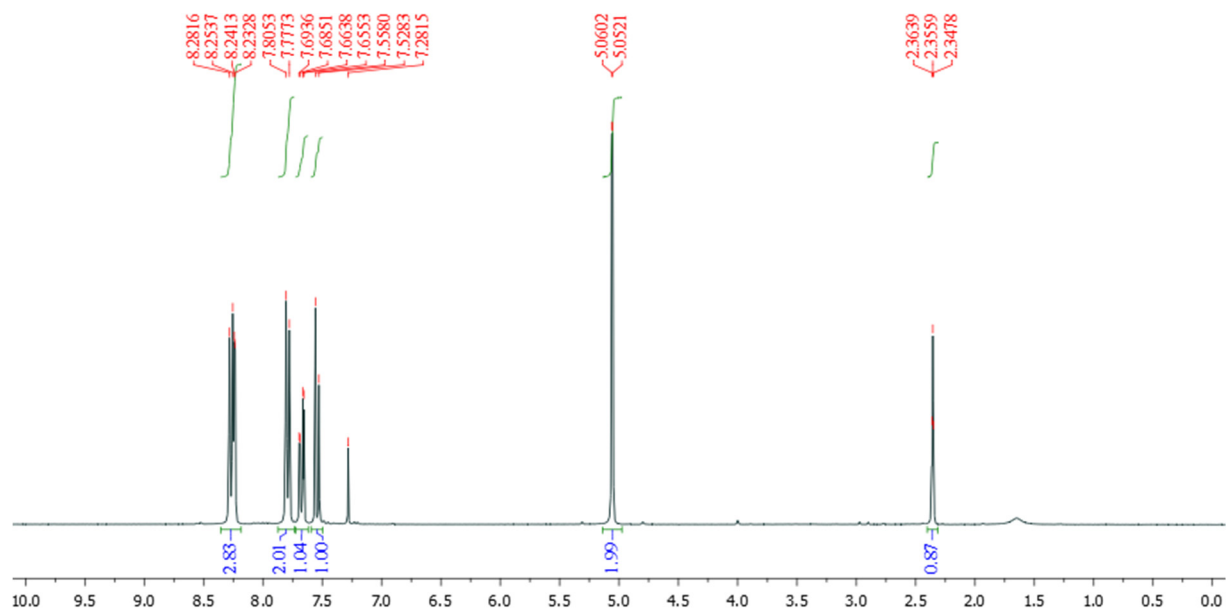
Figure S1: NMR spectra of the synthesized compounds (1, 2 and 3a-m).



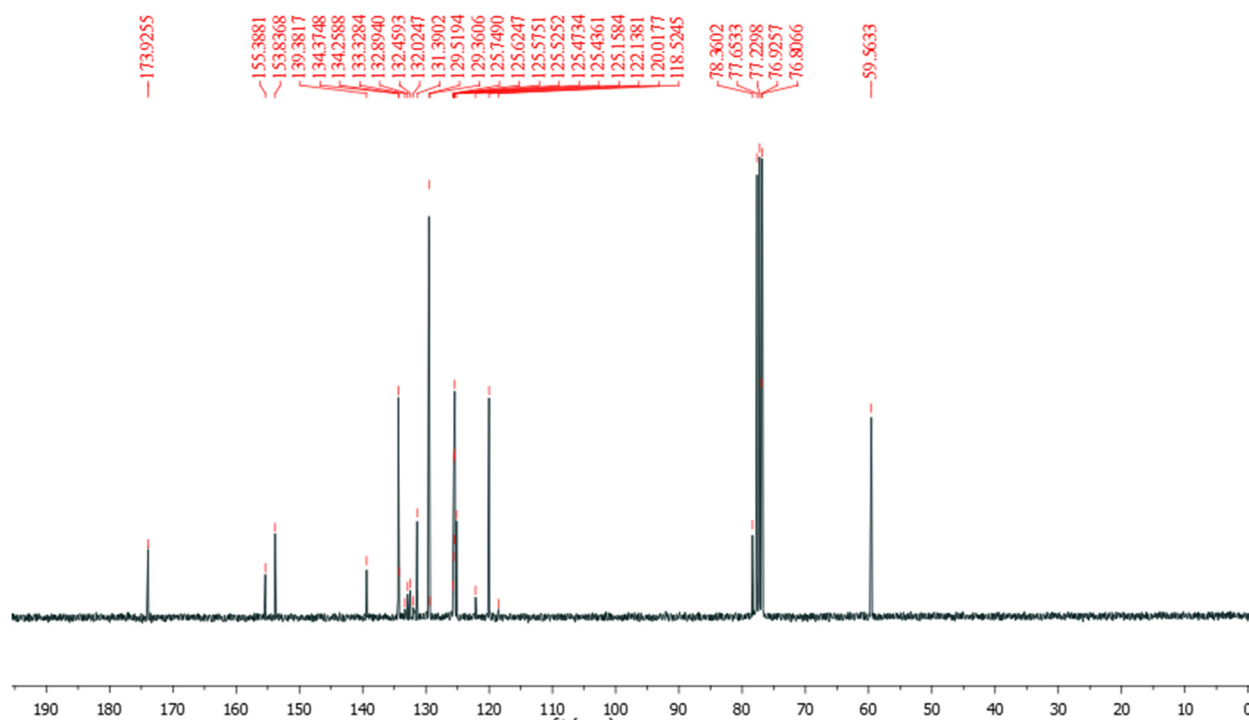
¹H NMR Spectrum (300 MHz, DMSO-*d*₆) of 1.



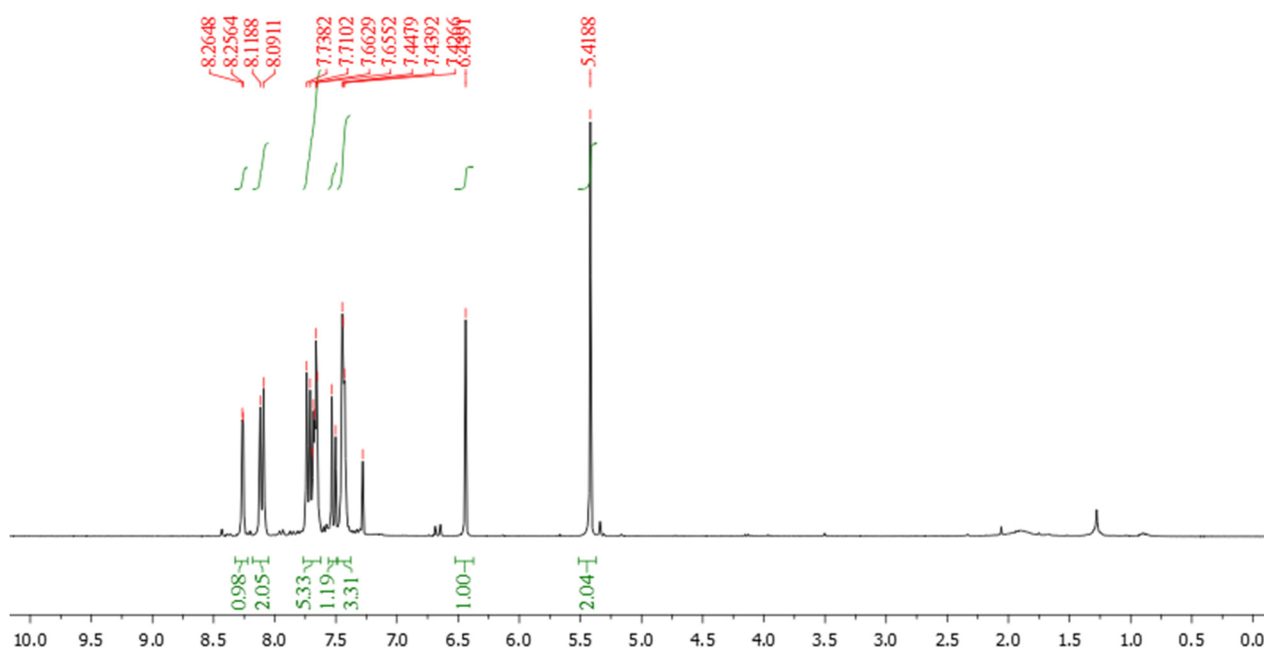
^{13}C NMR Spectrum (75 MHz, $\text{DMSO}-d_6$) of 1.



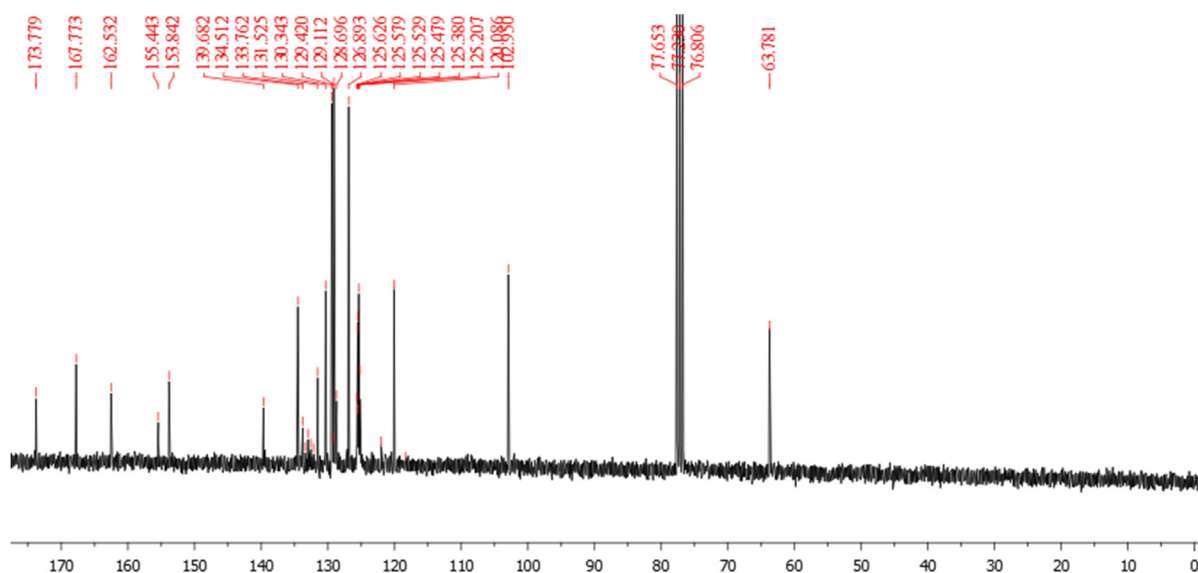
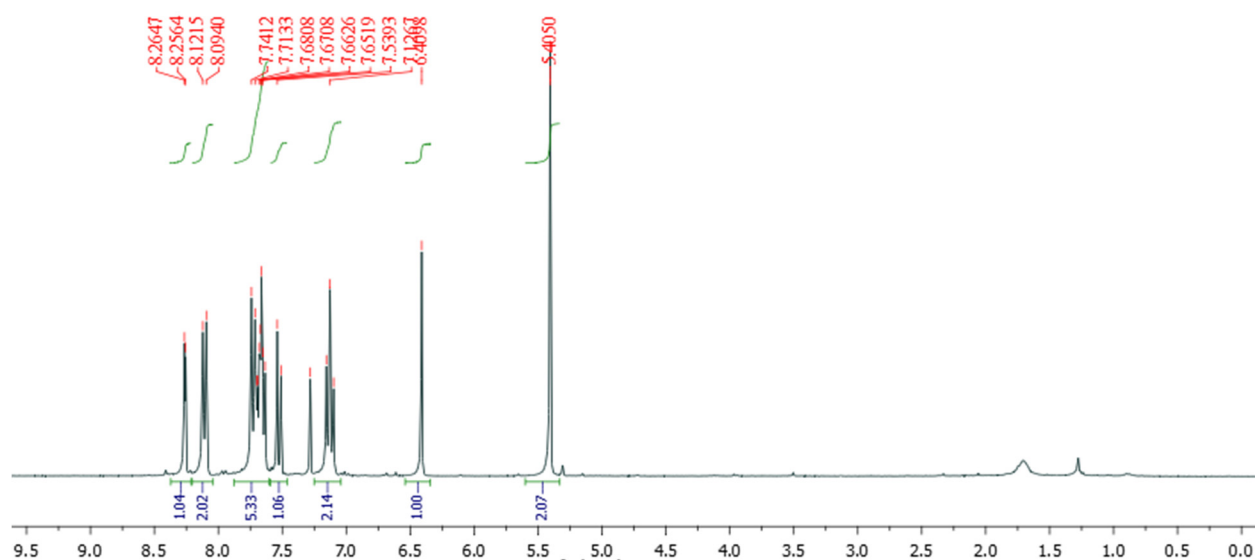
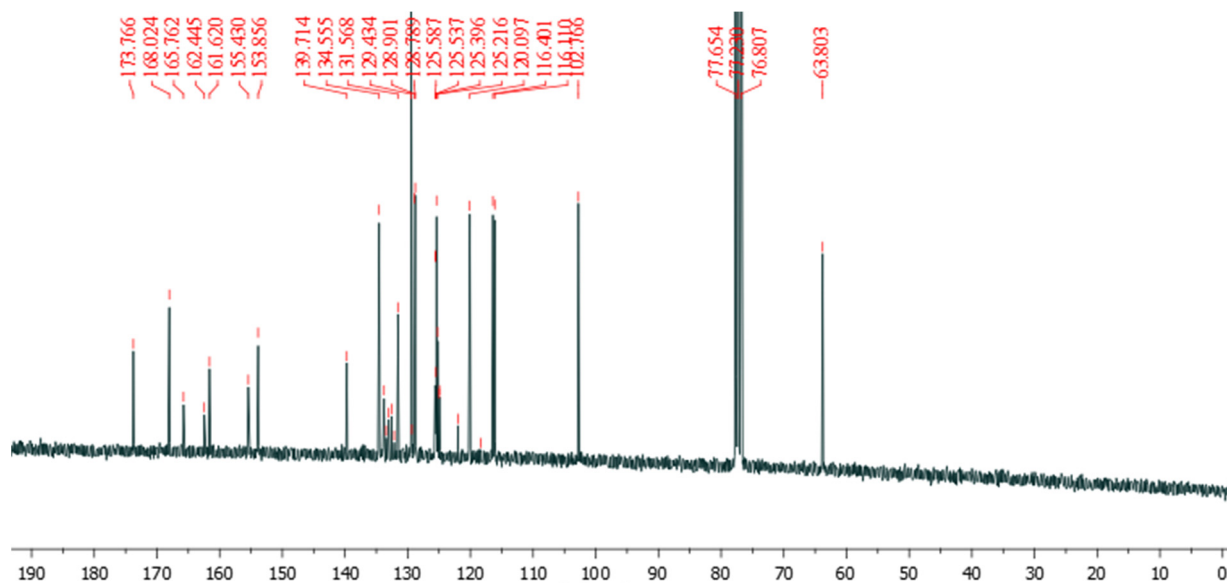
^1H NMR Spectrum (300 MHz, CDCl_3) of 2.

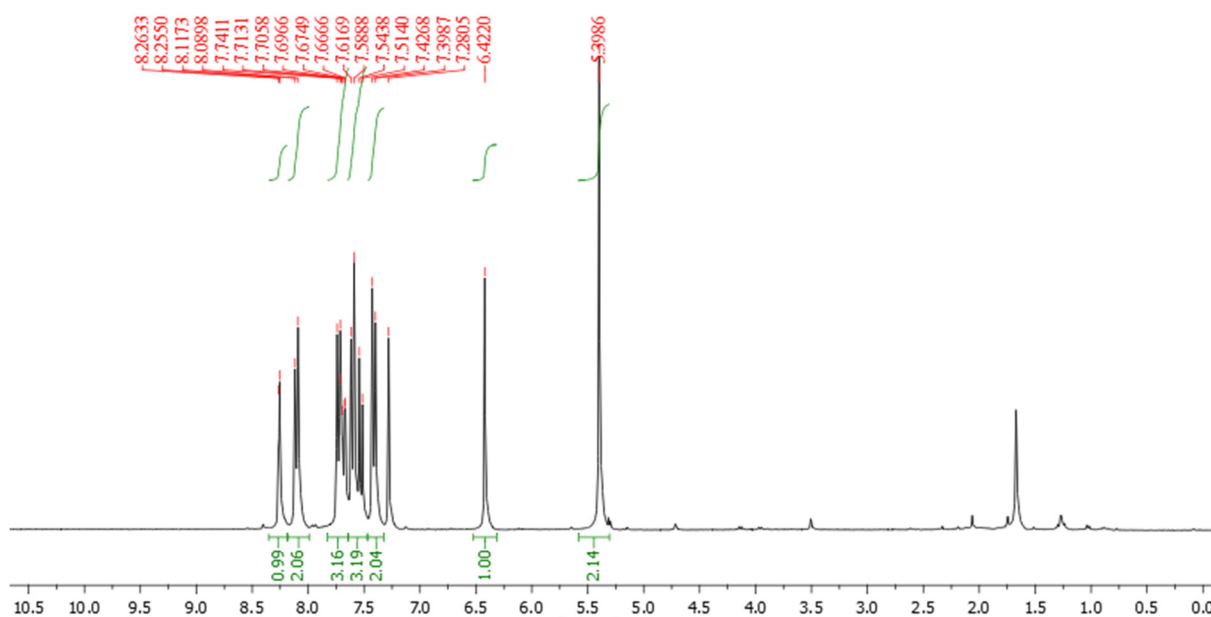
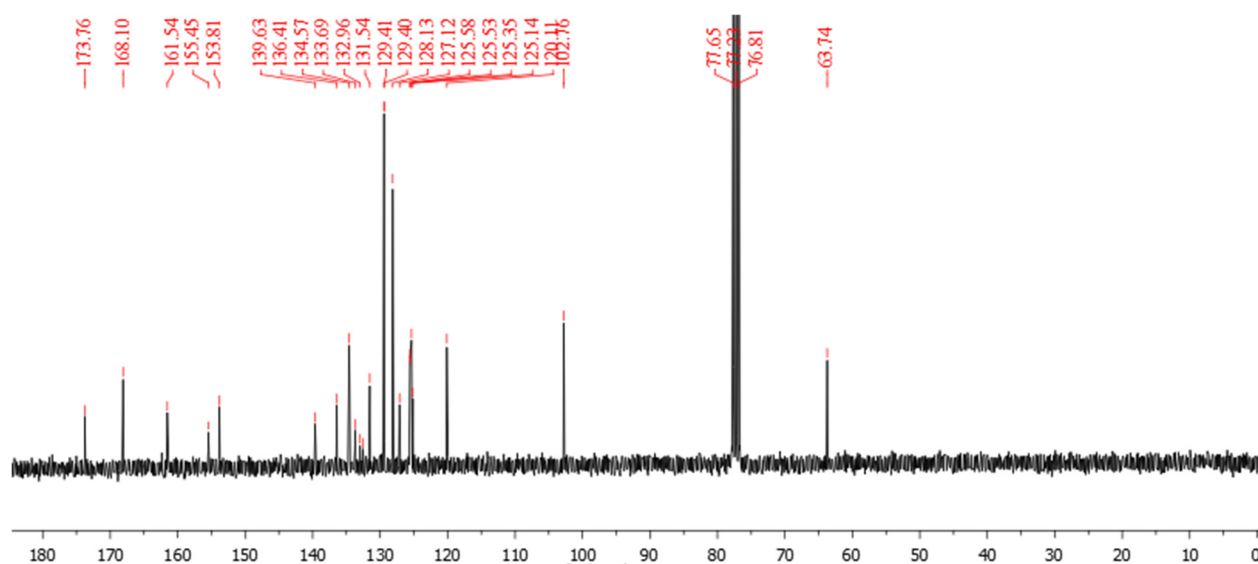


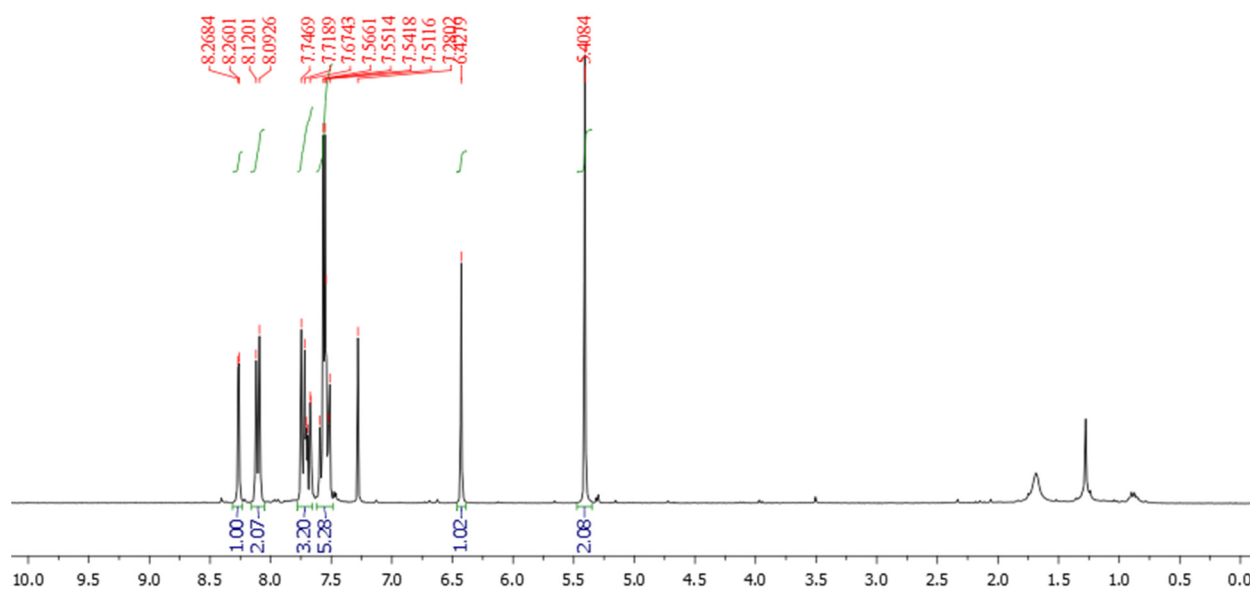
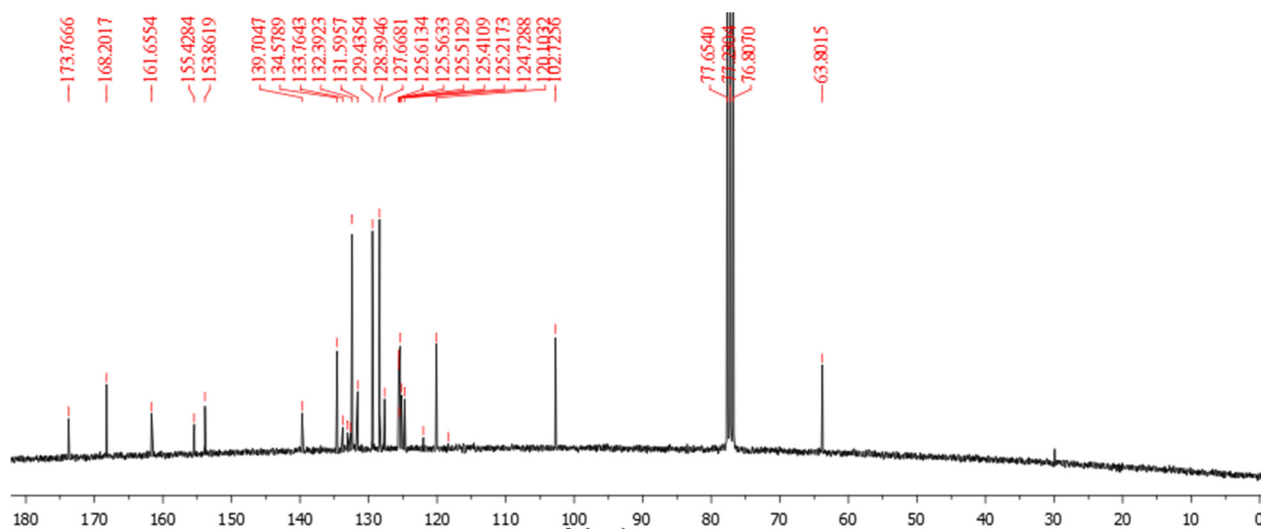
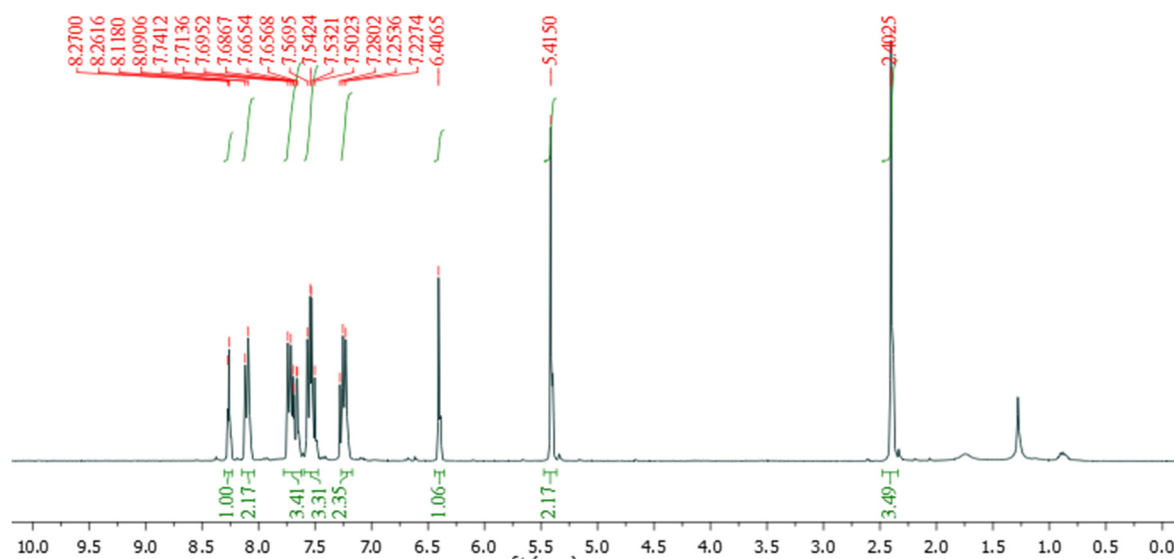
¹³C NMR Spectrum (75 MHz, CDCl₃) of 2.

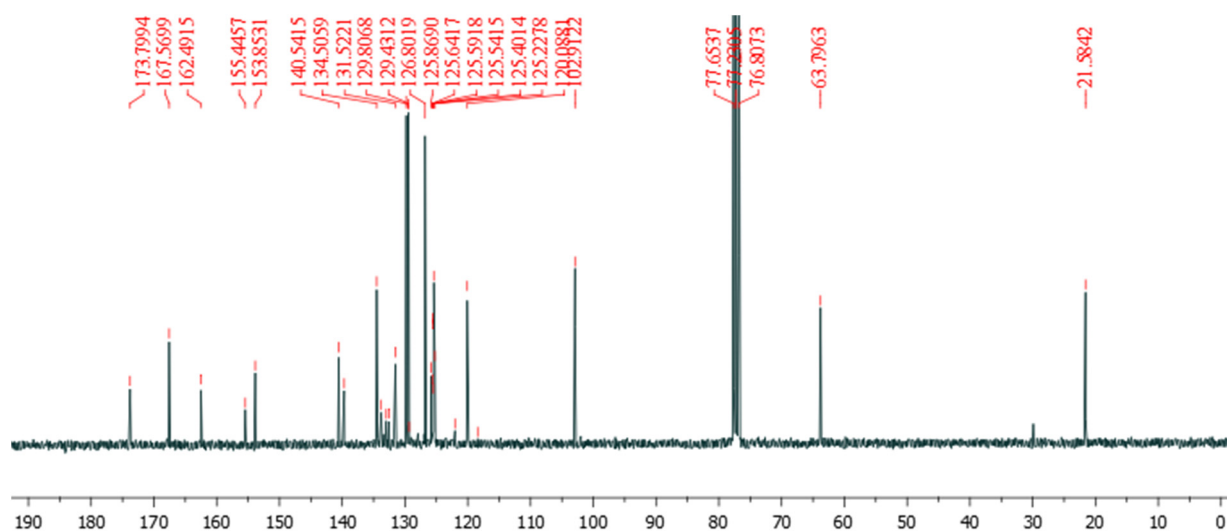
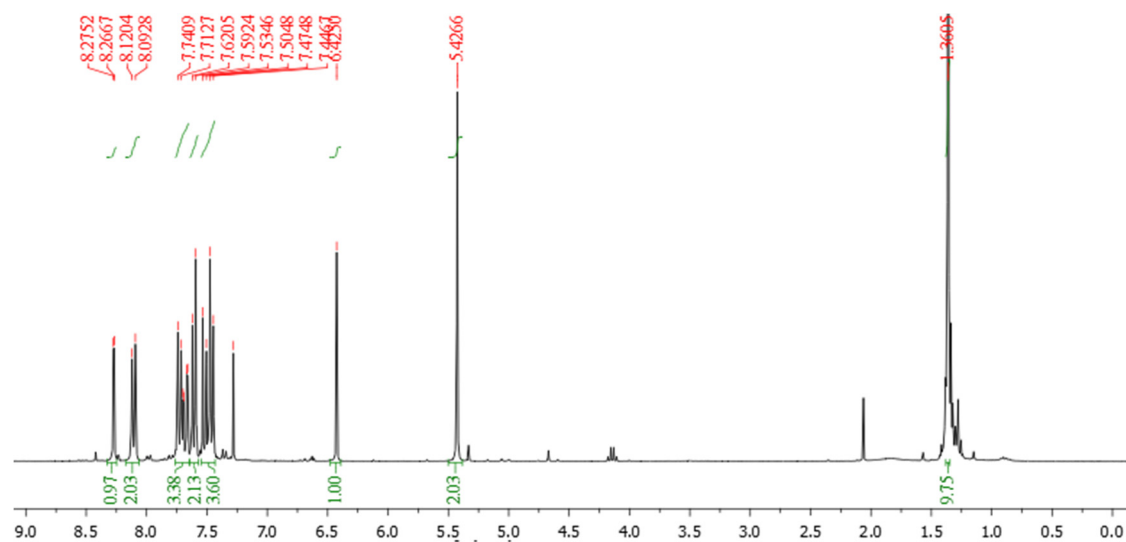
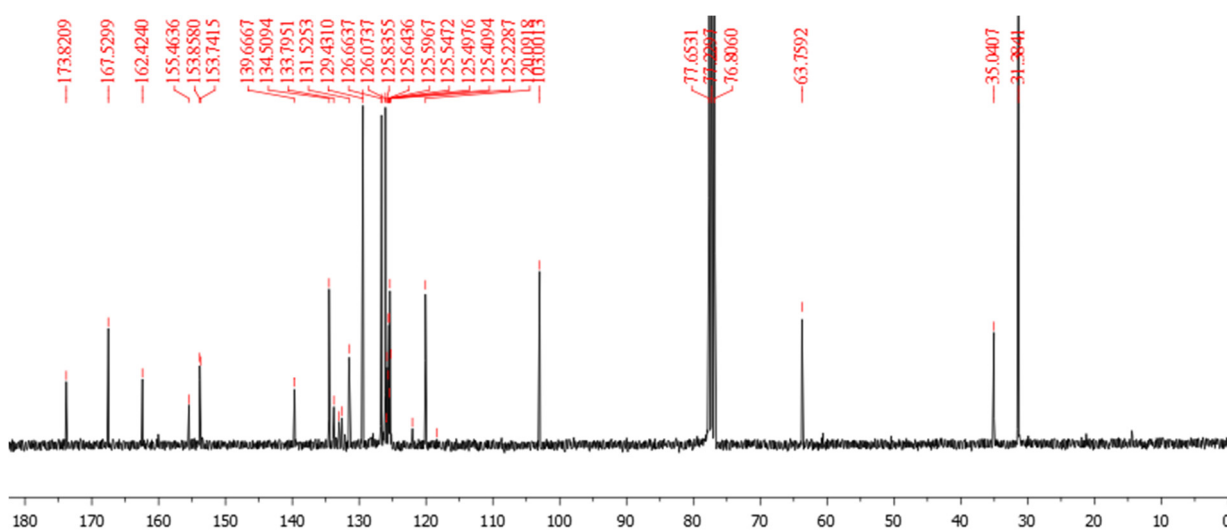


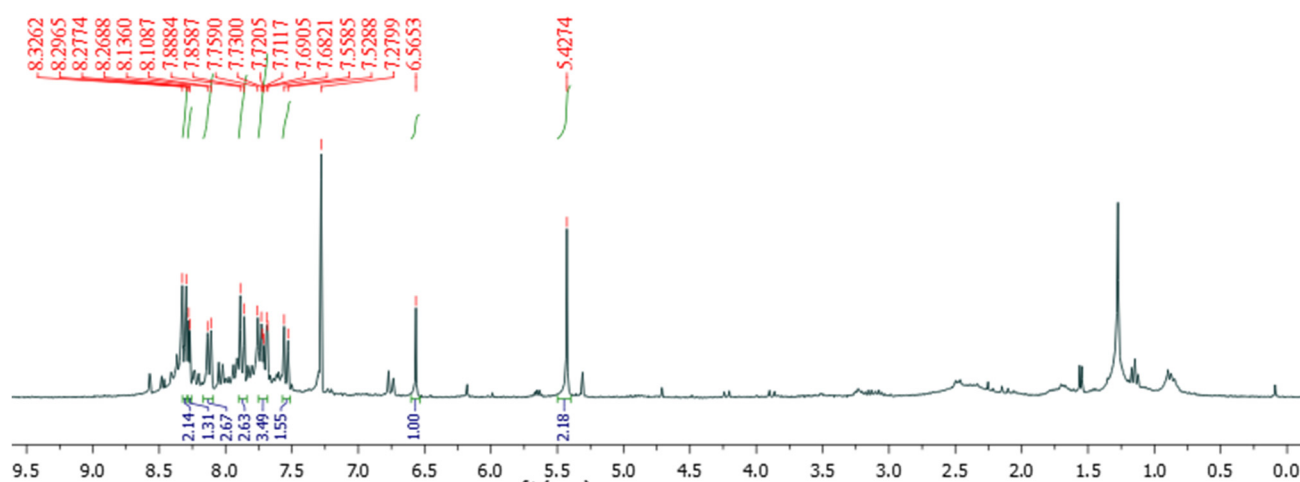
¹H NMR Spectrum (300 MHz, CDCl₃) of 3a.

 ^{13}C NMR Spectrum (75 MHz, CDCl_3) of 3a. ^1H NMR Spectrum (300 MHz, CDCl_3) of 3b.

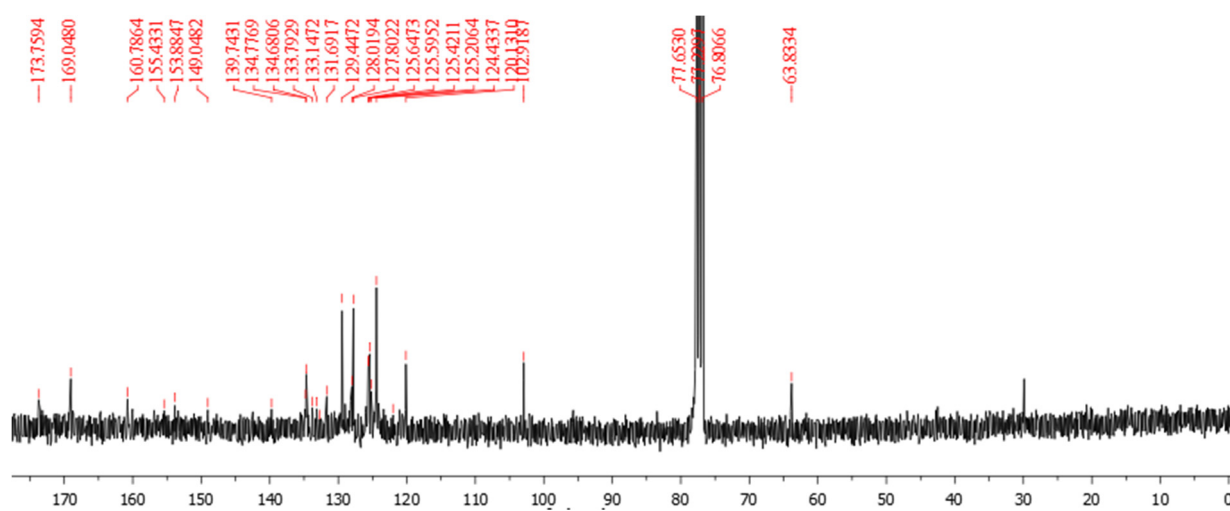
¹³C NMR Spectrum (75 MHz, CDCl₃) of 3b.¹H NMR Spectrum (300 MHz, CDCl₃) of 3c.¹³C NMR Spectrum (75 MHz, CDCl₃) of 3c.

¹H NMR Spectrum (300 MHz, CDCl₃) of 3d.¹³C NMR Spectrum (75 MHz, CDCl₃) of 3d.¹H NMR Spectrum (300 MHz, CDCl₃) of 3e.

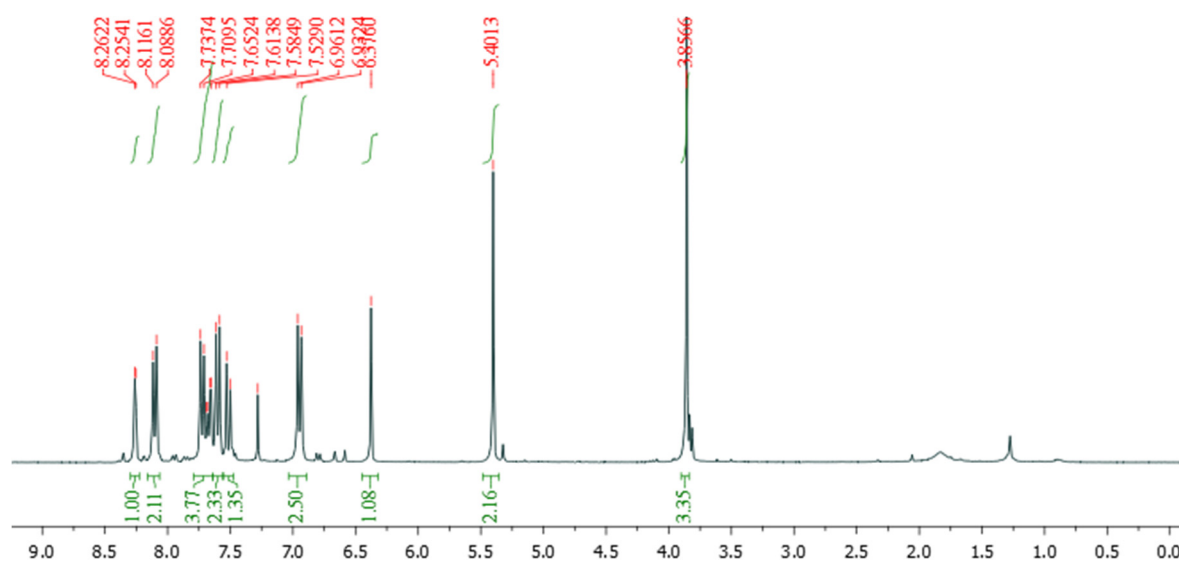
¹³C NMR Spectrum (75 MHz, CDCl₃) of 3e.¹H NMR Spectrum (300 MHz, CDCl₃) of 3f.¹³C NMR Spectrum (75 MHz, CDCl₃) of 3f.



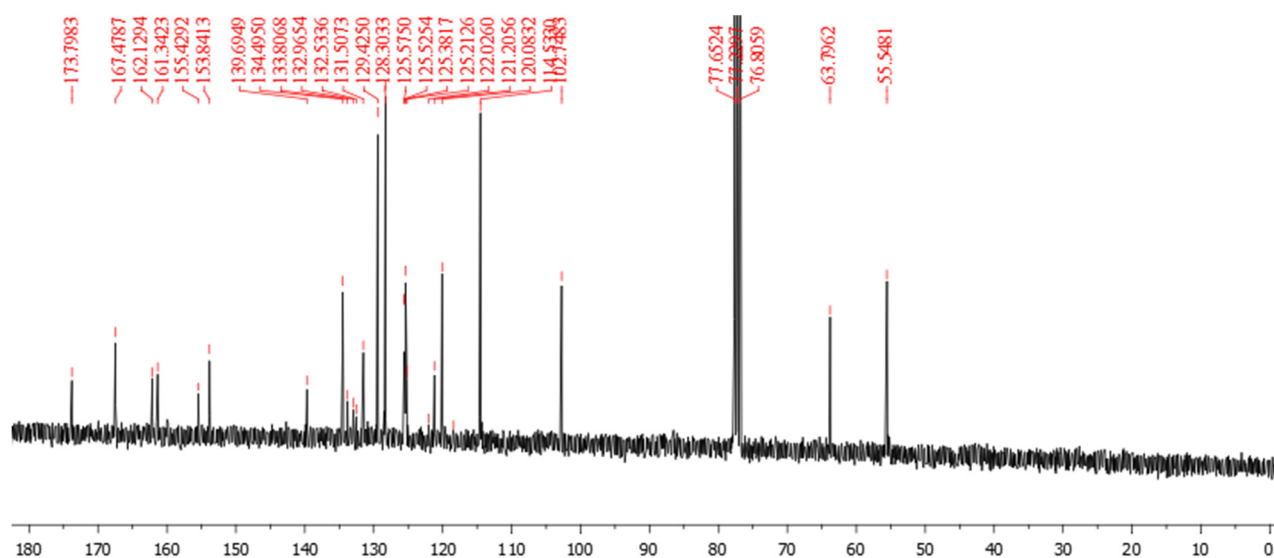
¹H NMR Spectrum (300 MHz, CDCl₃) of 3g.



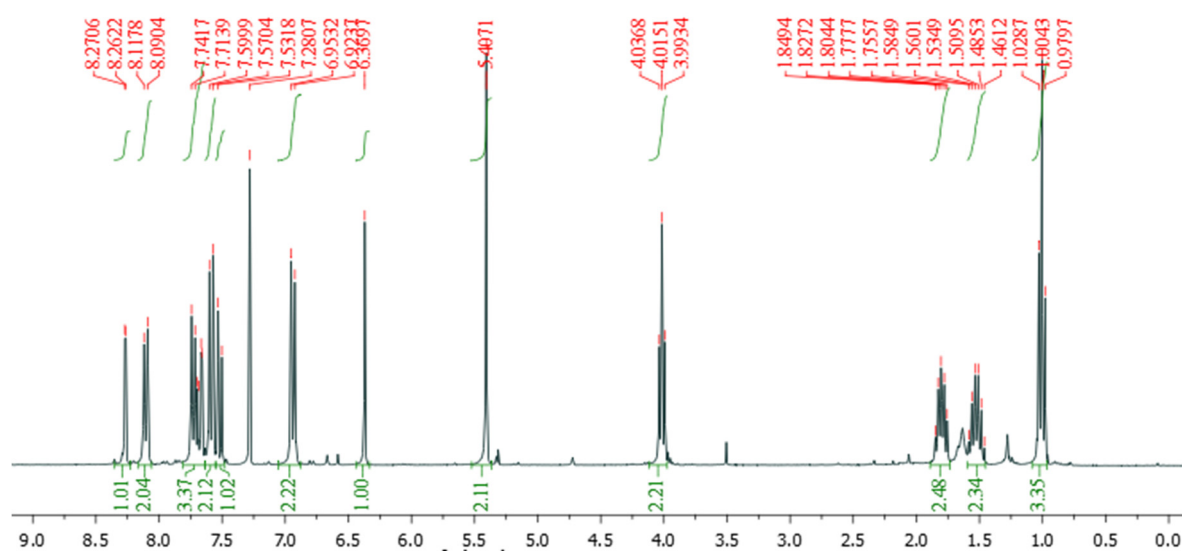
¹³C NMR Spectrum (75 MHz, CDCl₃) of 3g.



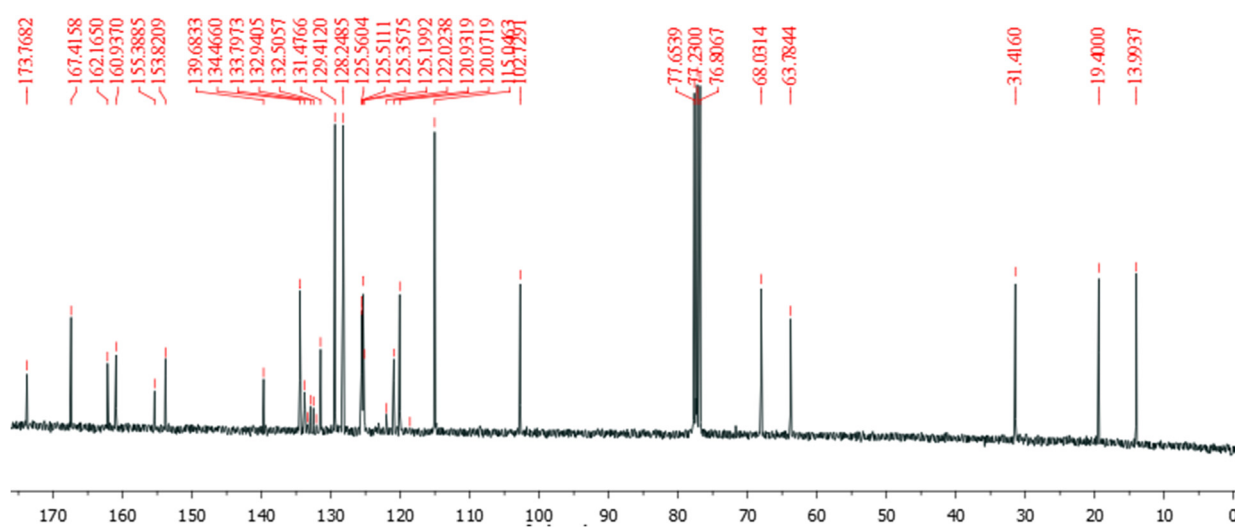
¹H NMR Spectrum (300 MHz, CDCl₃) of 3h.



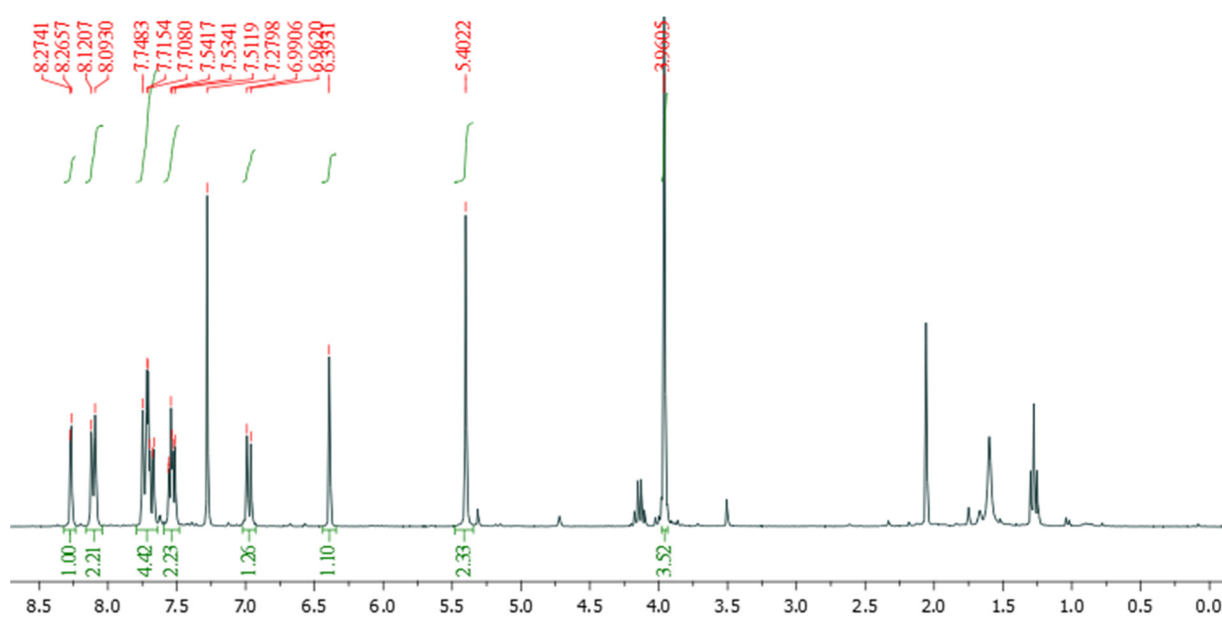
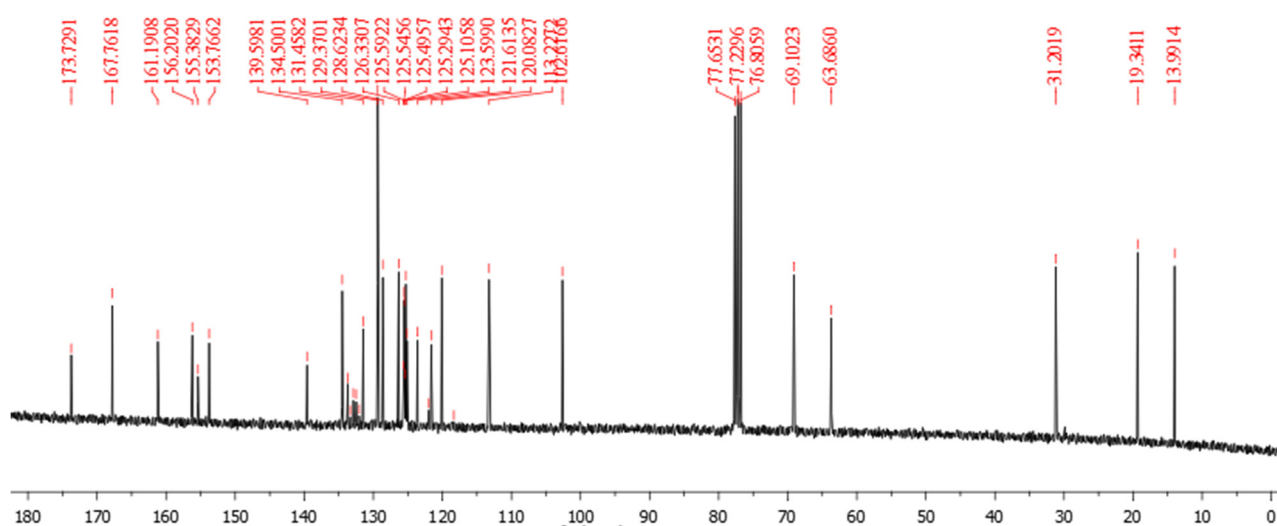
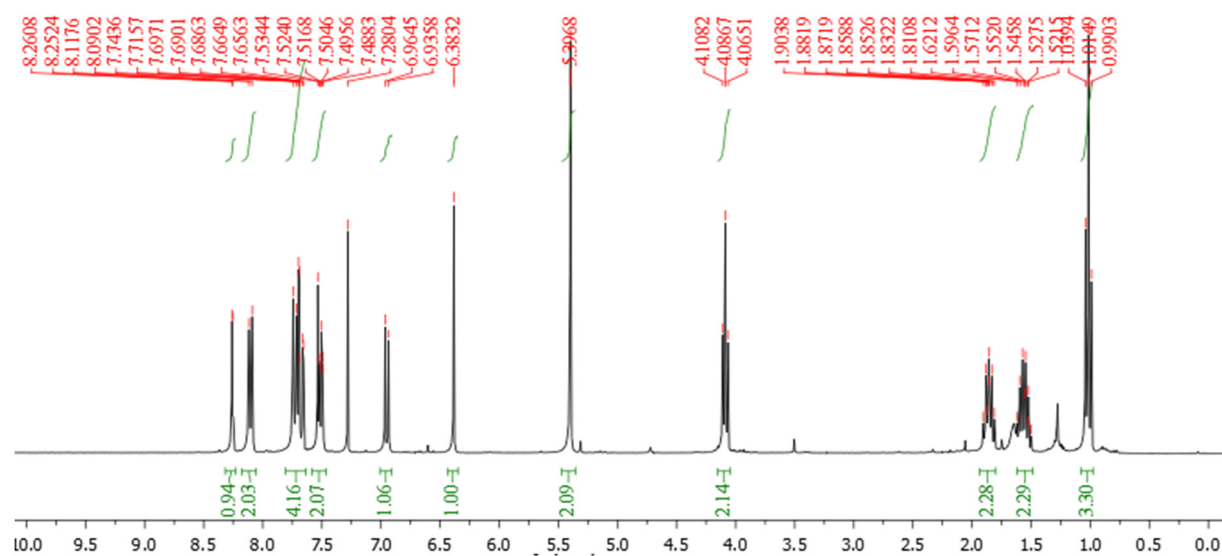
¹³C NMR Spectrum (75 MHz, CDCl₃) of 3h.

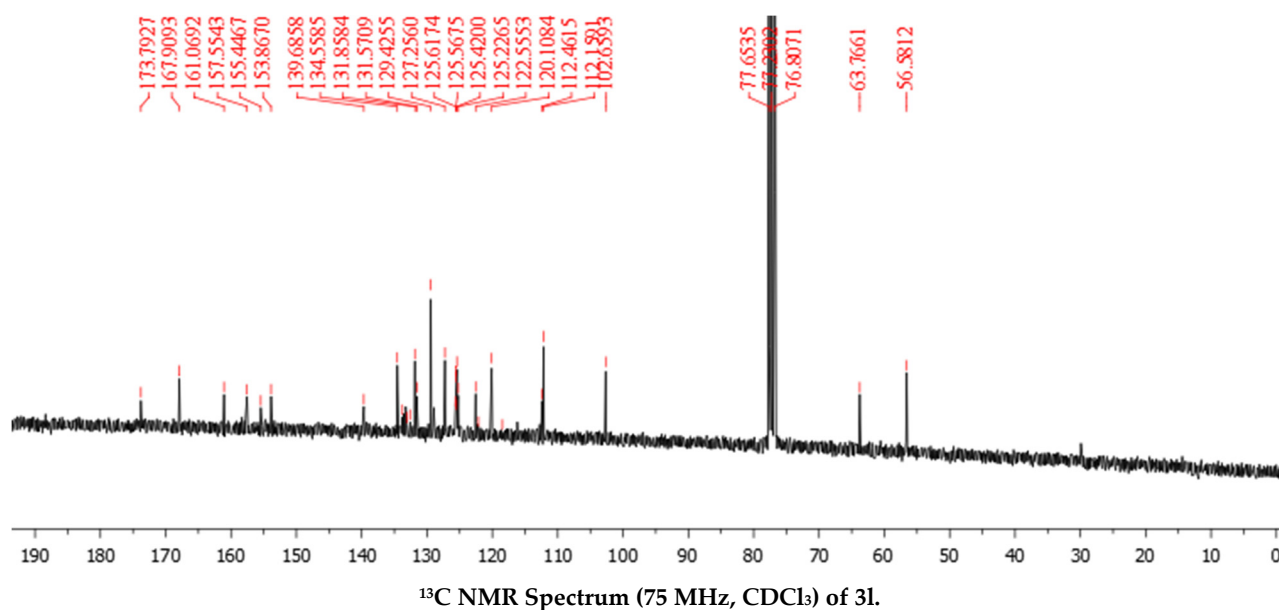
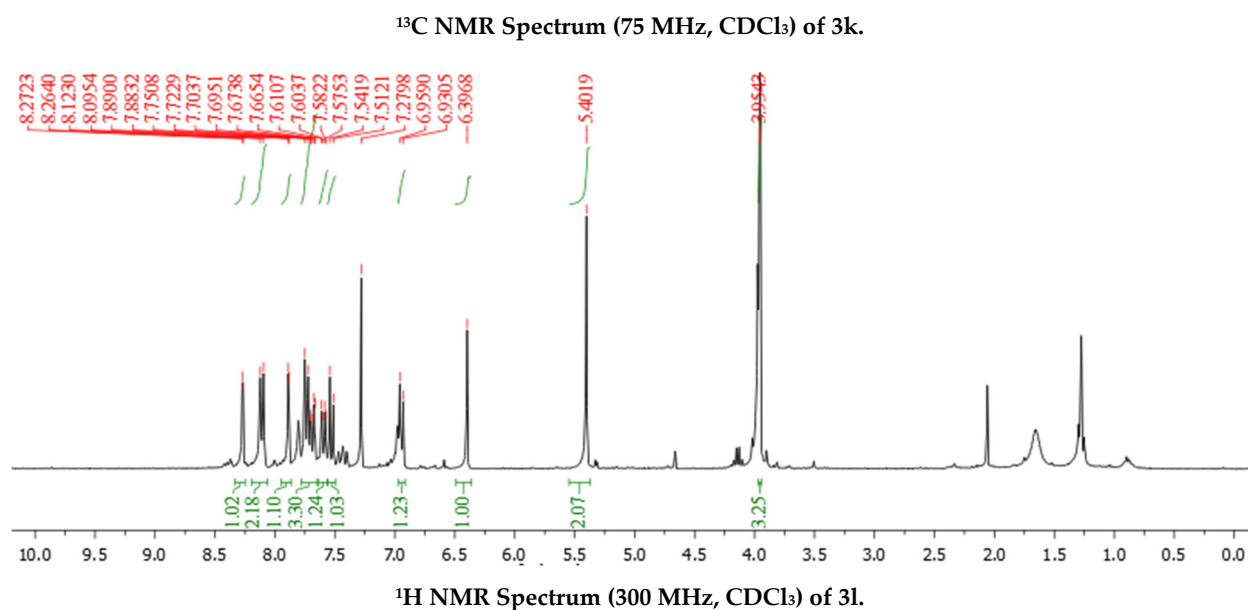
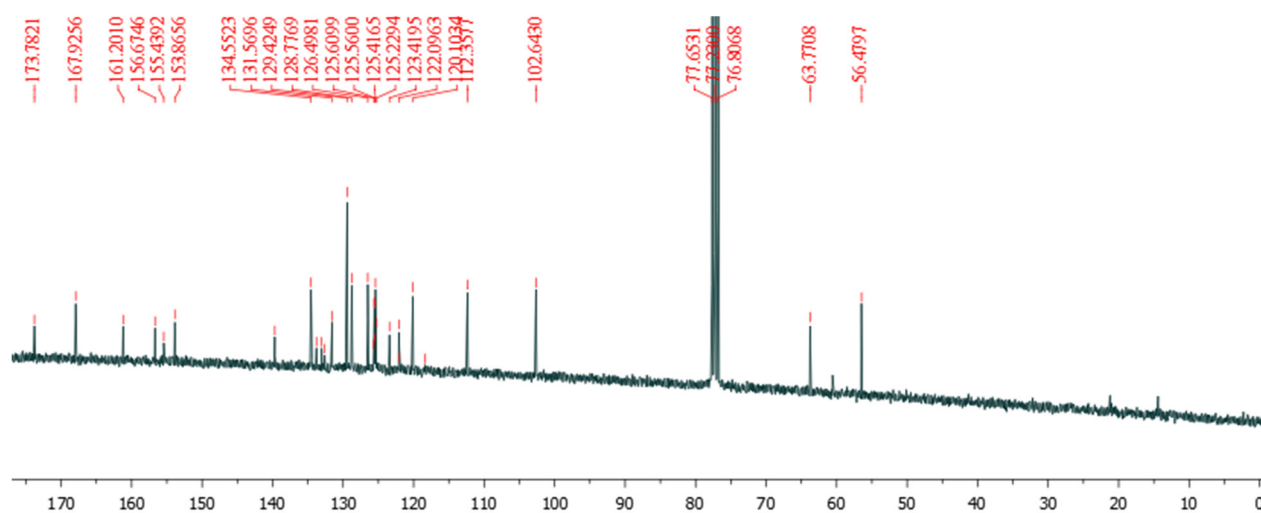


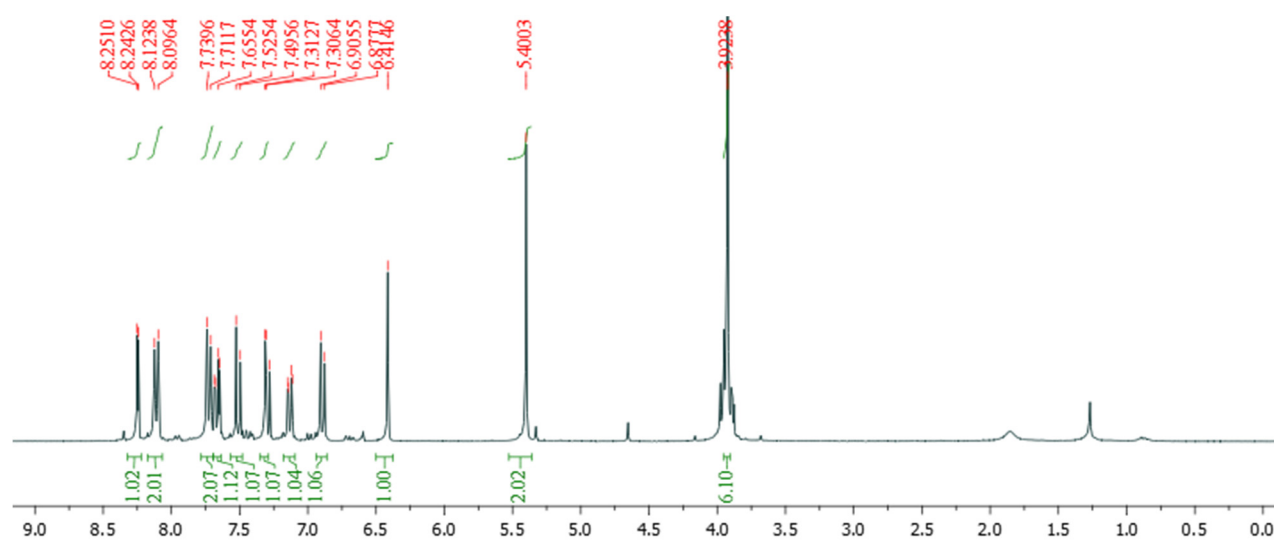
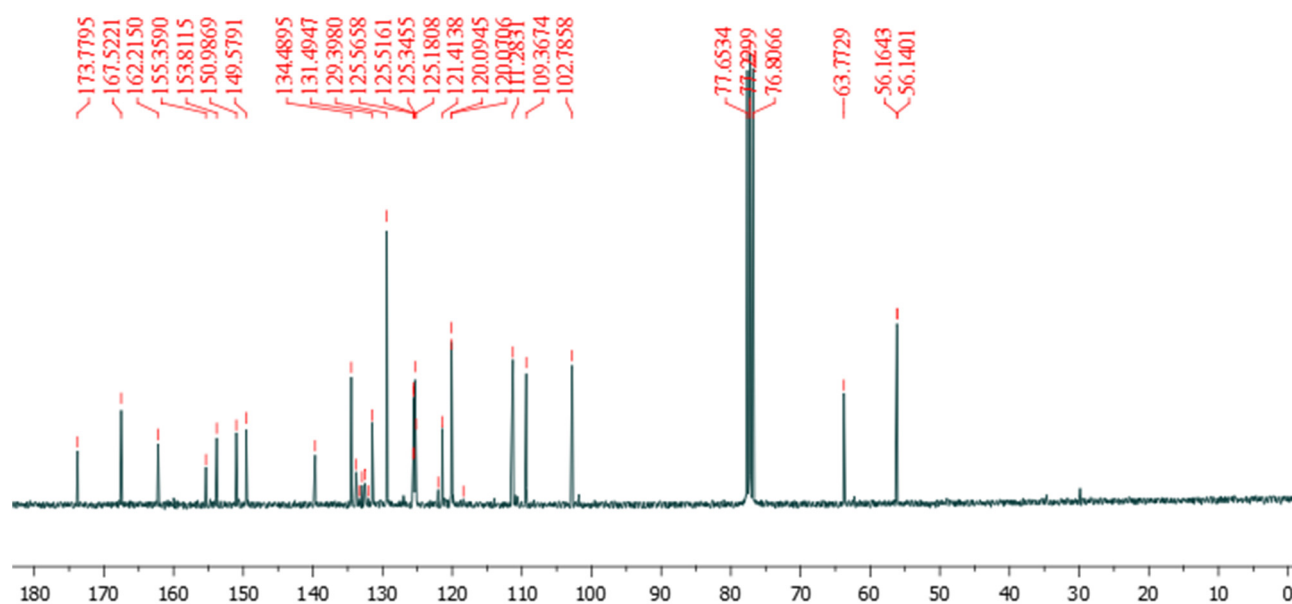
¹H NMR Spectrum (300 MHz, CDCl₃) of 3i.



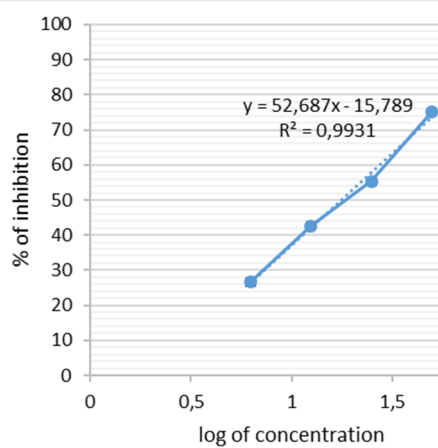
¹³C NMR Spectrum (75 MHz, CDCl₃) of 3i.



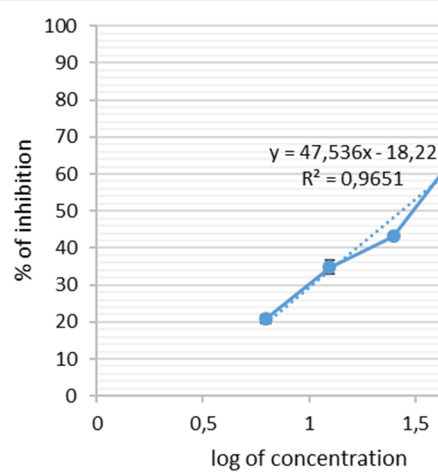


¹H NMR Spectrum (300 MHz, CDCl₃) of 3m.¹³C NMR Spectrum (75 MHz, CDCl₃) of 3m.Table S1. The concentration-response curves used to calculate the IC₅₀ values.

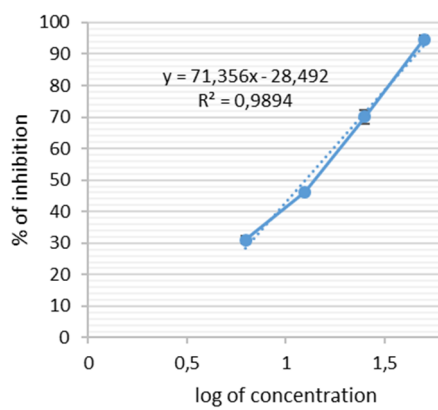
Compound	Curves	log(IC ₅₀)
1		1.1859949

2

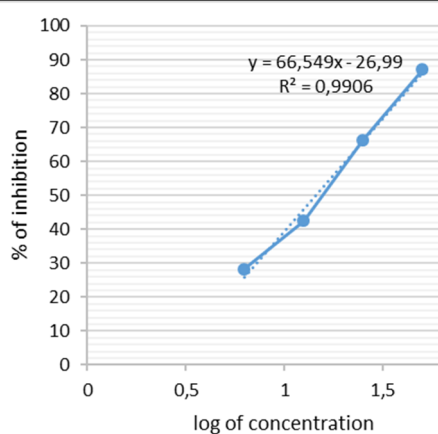
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3a

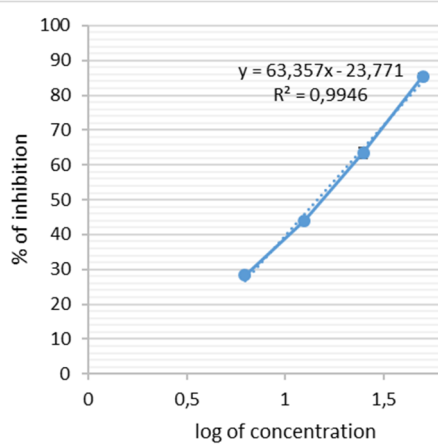
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3b

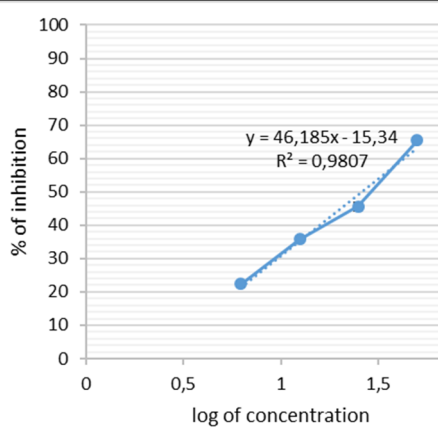
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3c

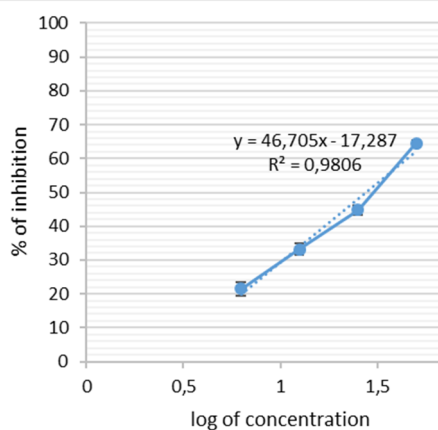
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3d

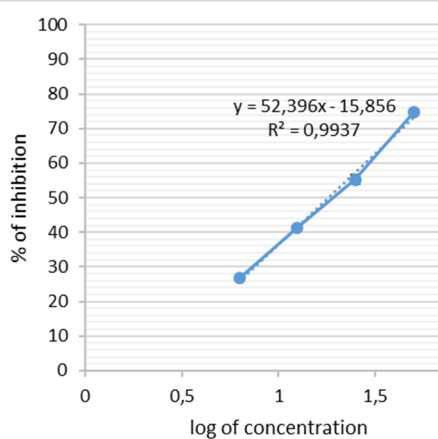
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3e

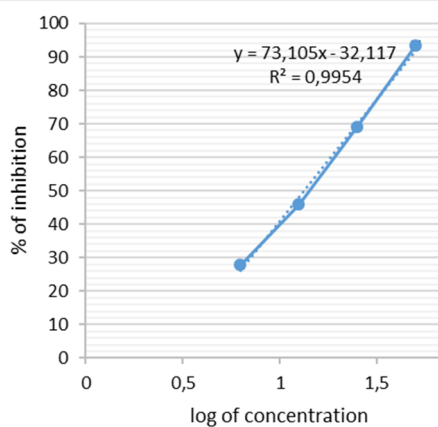
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3f

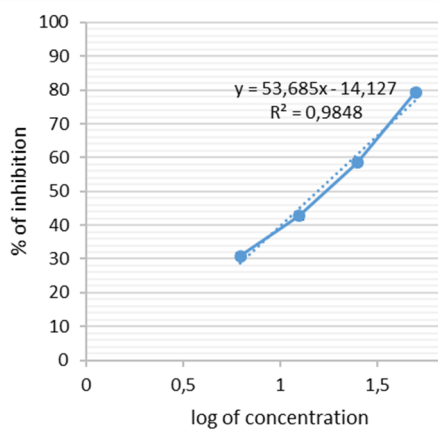
1.440680869

3g

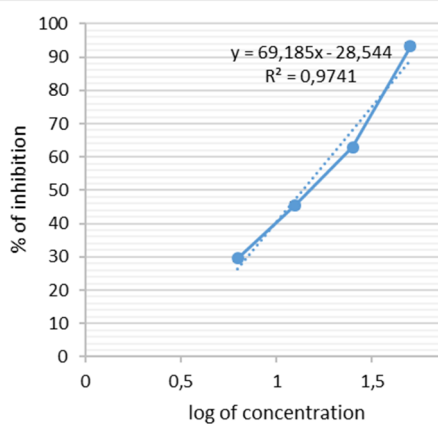
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3h

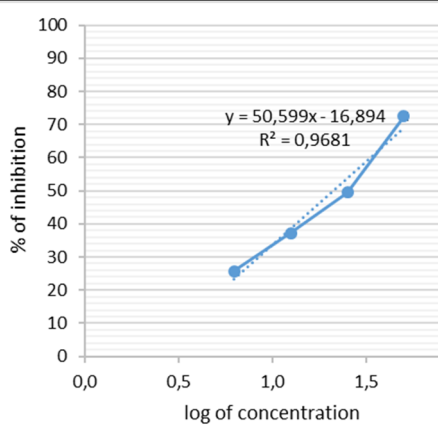
1.12327474

3i

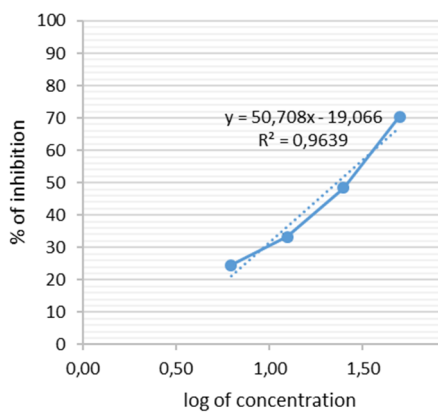
1.19450498

3j

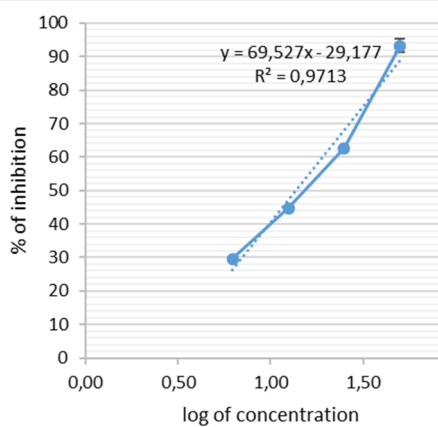
1.13527499

3k

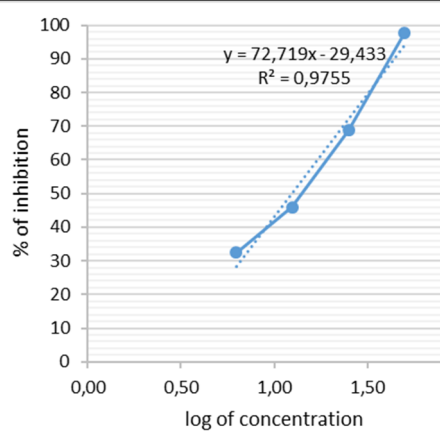
1.32204194

3l

1.3620336

3m

1.138795

Acarbose (Positive control)

1.092328