

Supporting information

Biphenylthiazole Antibiotics with Oxadiazole Linker: An Approach to Improve the Physicochemical Properties and Oral Bioavailability

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Table 1S. Minimum inhibitory concentration (MIC, $\mu\text{g/mL}$) of compound 27, vancomycin (VAN), and linezolid (LIN) against drug-resistant *S. aureus*, *Enterococcus faecium*, *Enterococcus faecalis*, and Gram-negative bacterial pathogens.

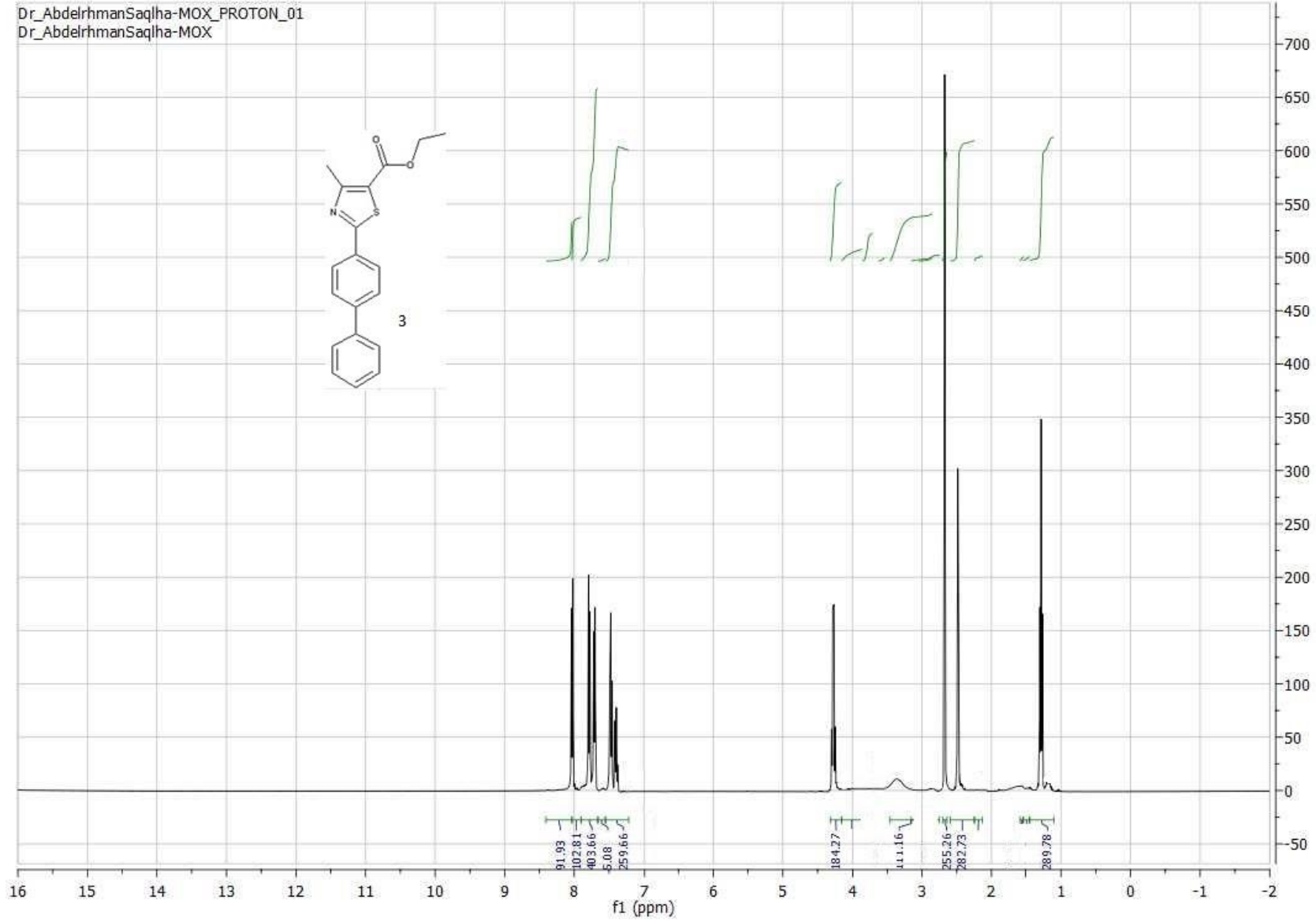
Bacterial strain	MIC 27	MIC VAN	MIC LIN
<i>S. aureus</i> NRS107 (RN4220)	8	1	N.D.
MRSA NRS119	16	1	>128
MRSA NRS123 (USA400)	16	1	N.D.
MRSA NRS384 (USA300)	16	1	N.D.
VRS10	16	>512	N.D.
VRS11a	16	>512	N.D.
VRS12	16	>512	N.D.
<i>E. faecium</i> ATCC 700221	>64	>64	1
<i>E. faecalis</i> ATCC 51299	>64	16	1
<i>Acinetobacter baumannii</i> ATCC 19606	>64	N.D.	>64
<i>Enterobacter cloacae</i> BAA- 1154	>64	N.D.	>64
<i>Klebsiella pneumoniae</i> BAA- 1706	>64	N.D.	>64
<i>Pseudomonas aeruginosa</i> ATCC 15442	>64	N.D.	>64

N.D. = Not determined, VRS = vancomycin-resistant *S. aureus*.

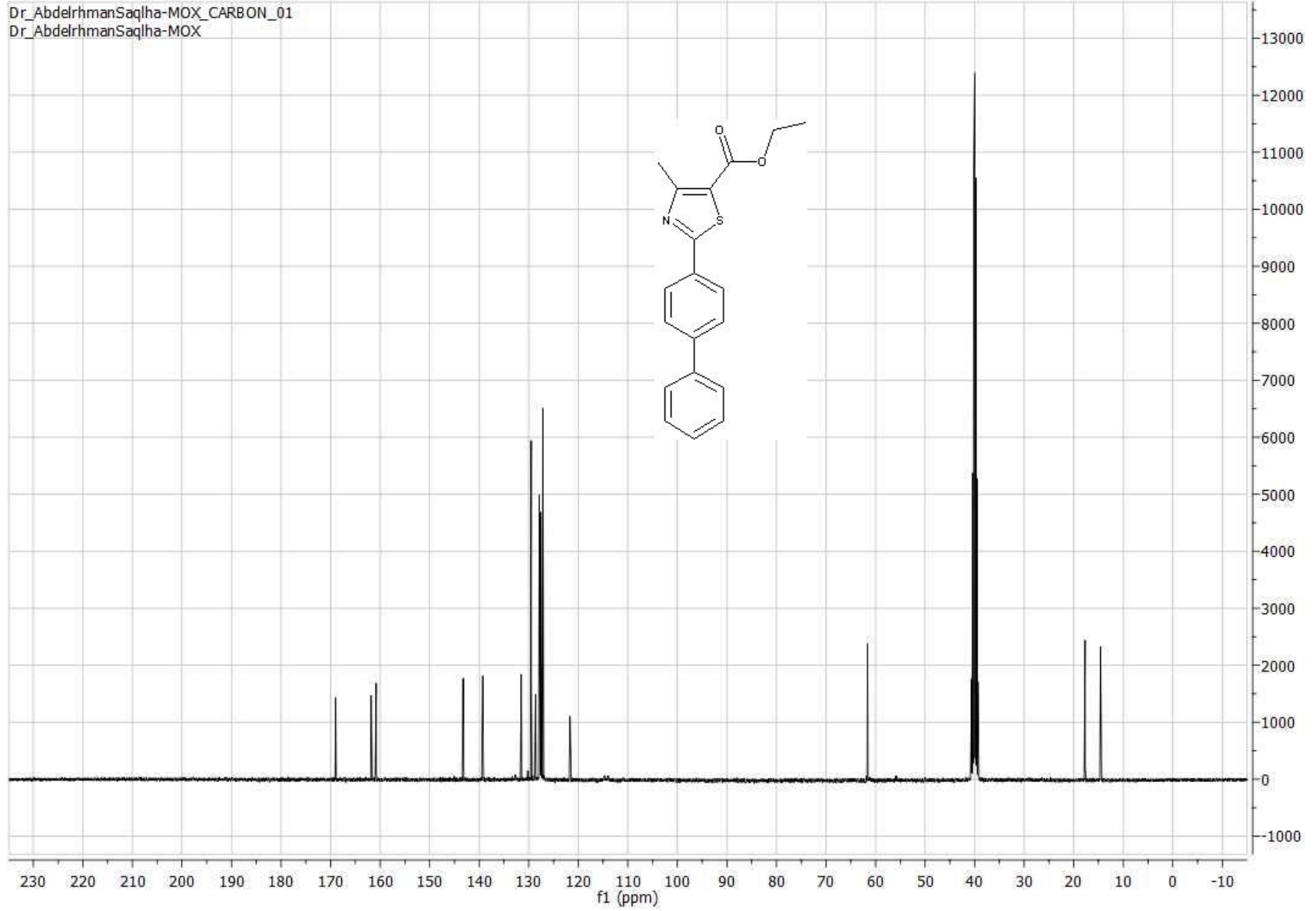
Table 2S. *in vitro* cytotoxicity against Baby hamster kidney fibroblasts (BHK-21) cells.

Compound	IC ₅₀ ($\mu\text{g/mL}$) /Time point	
	6 H	24 H
22	>1000	44.96 \pm 3.2
27	398.2 \pm 8.7	45.7 \pm 2.6

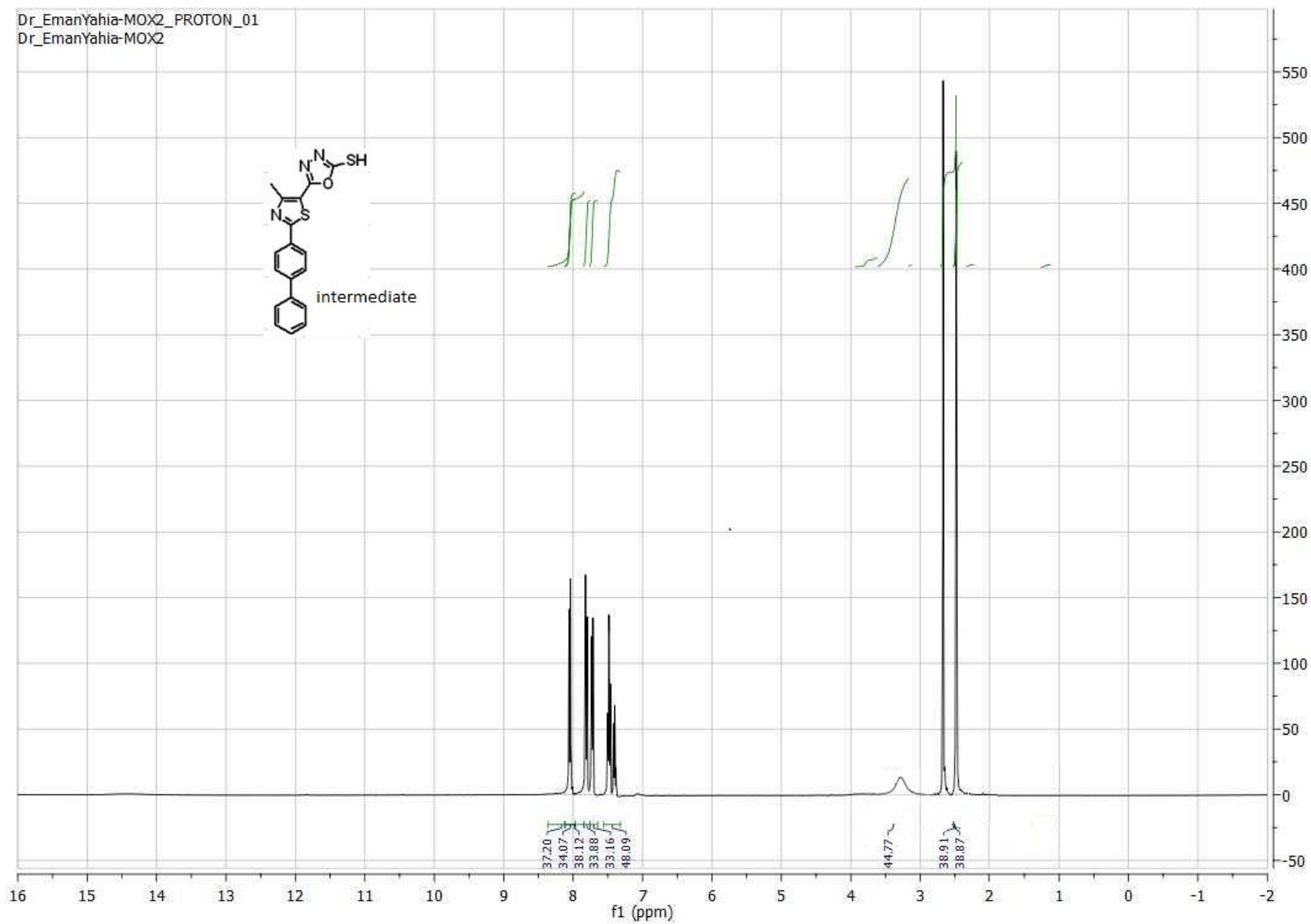
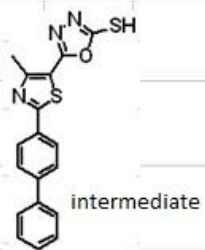
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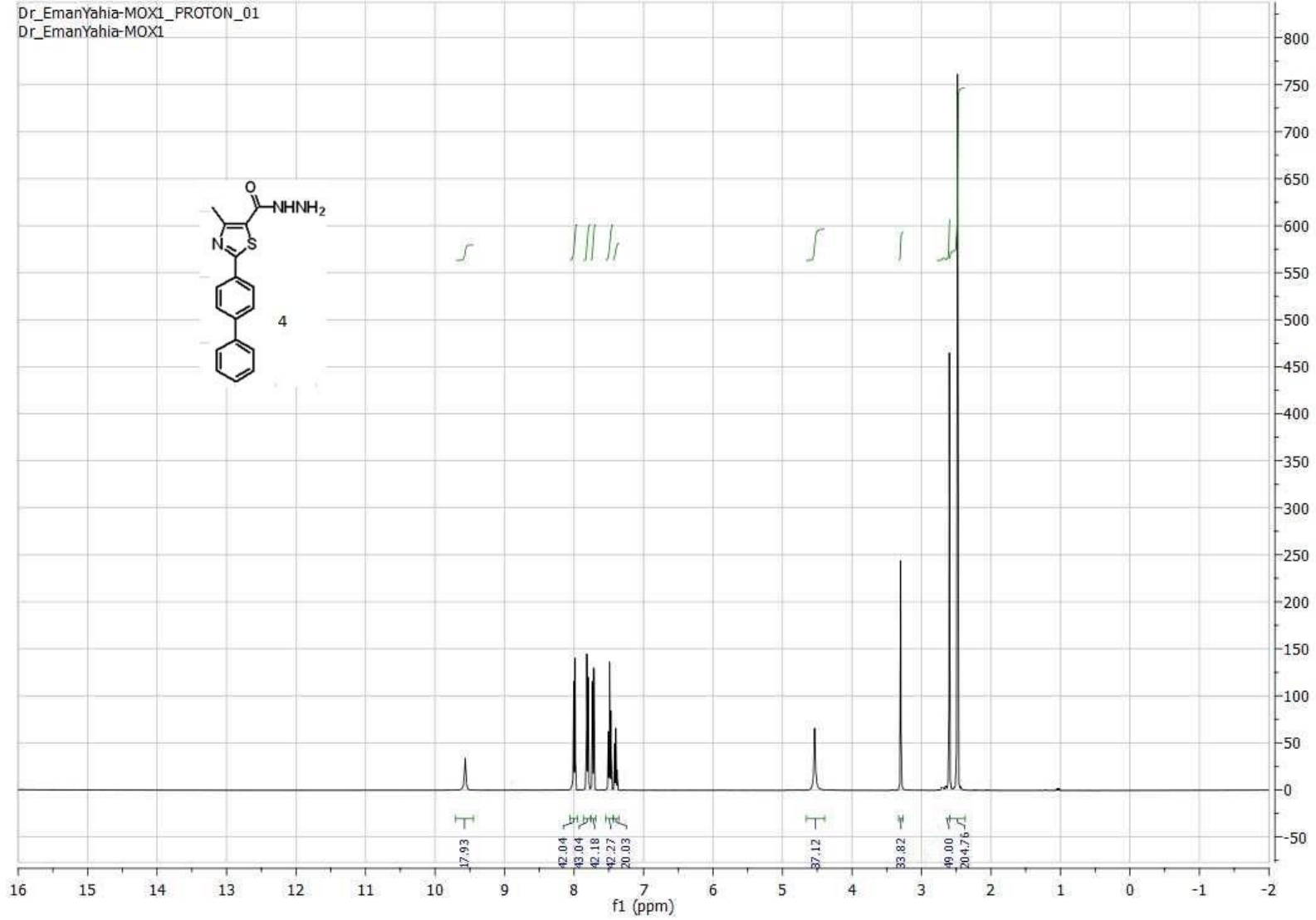
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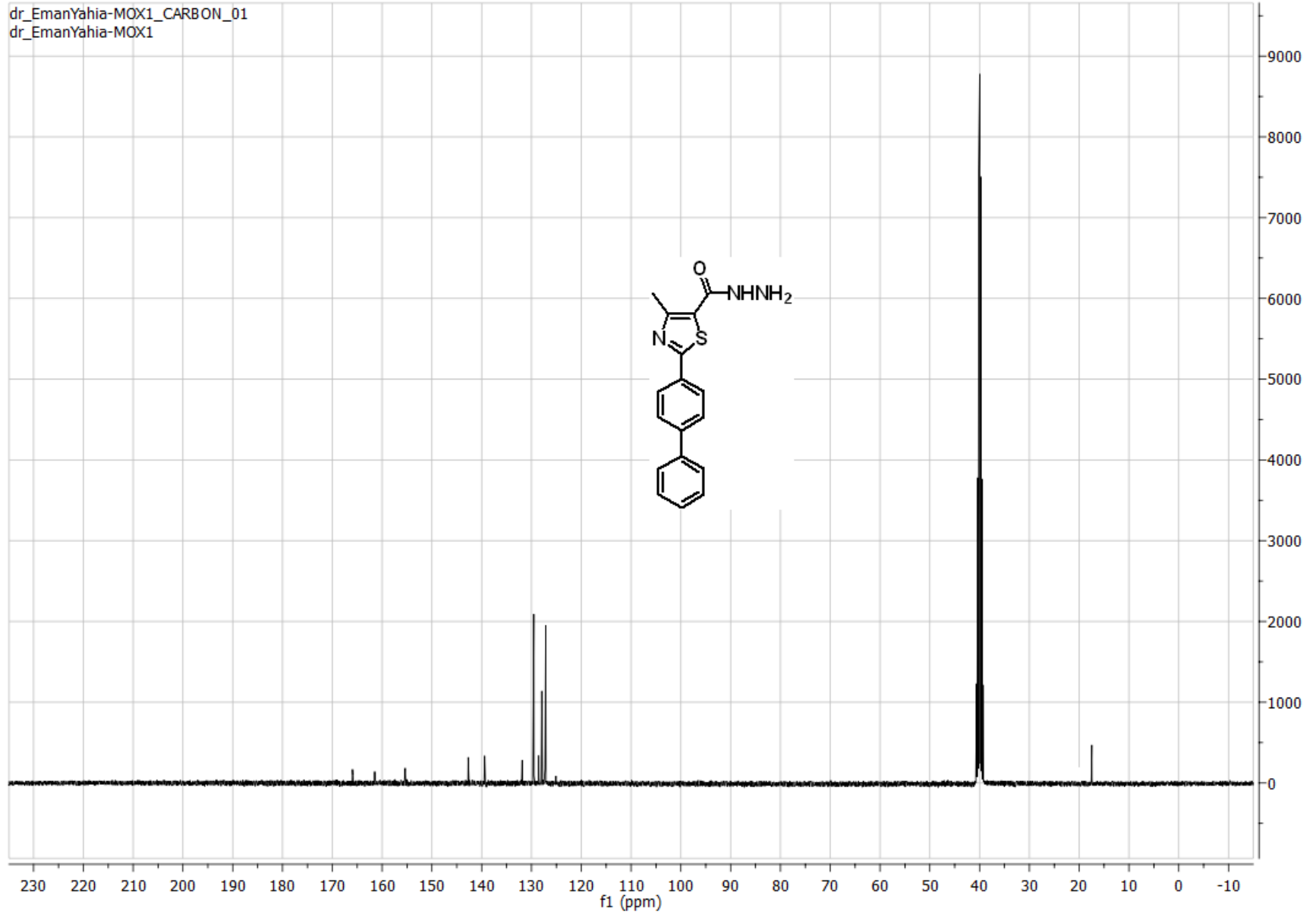
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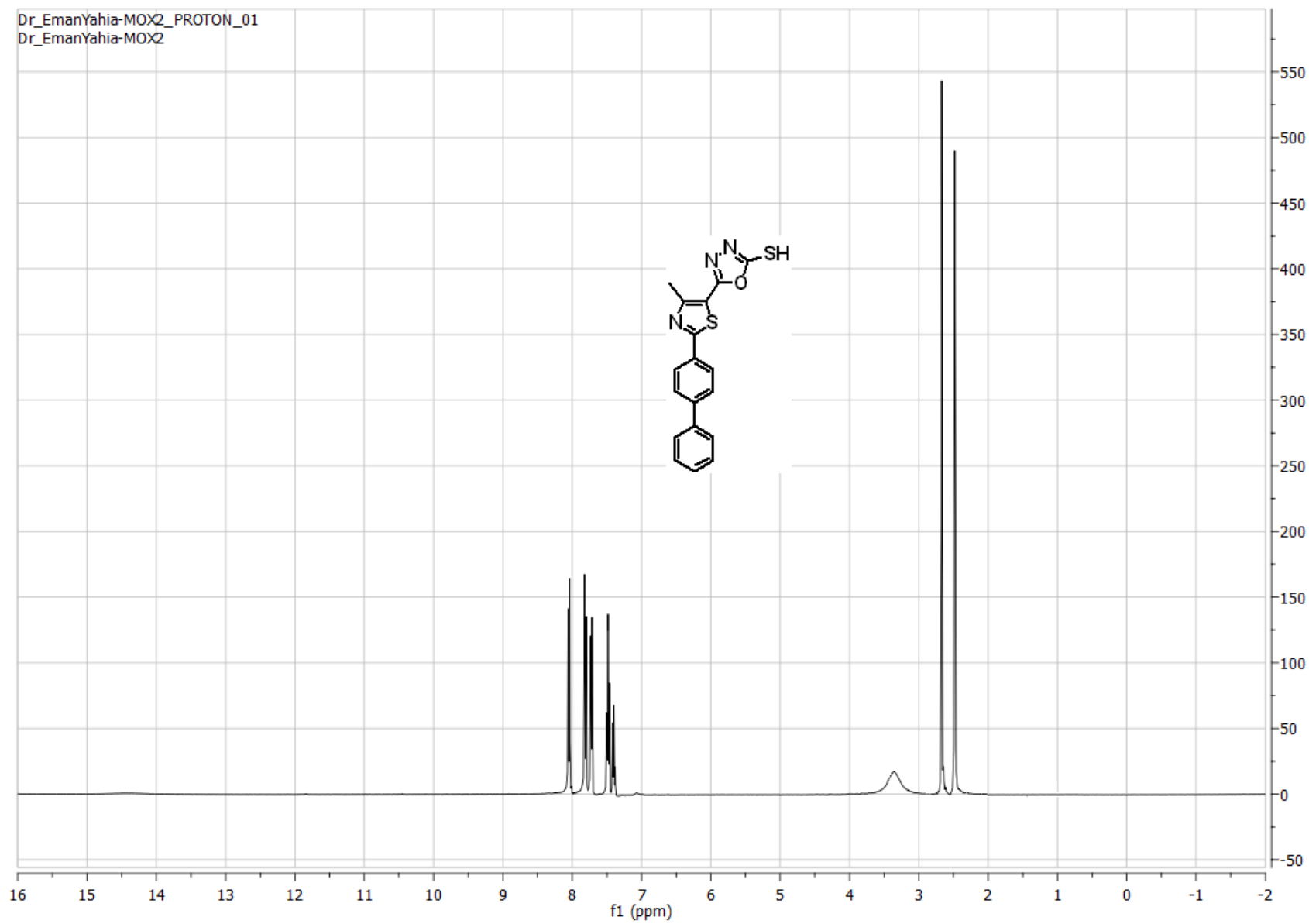
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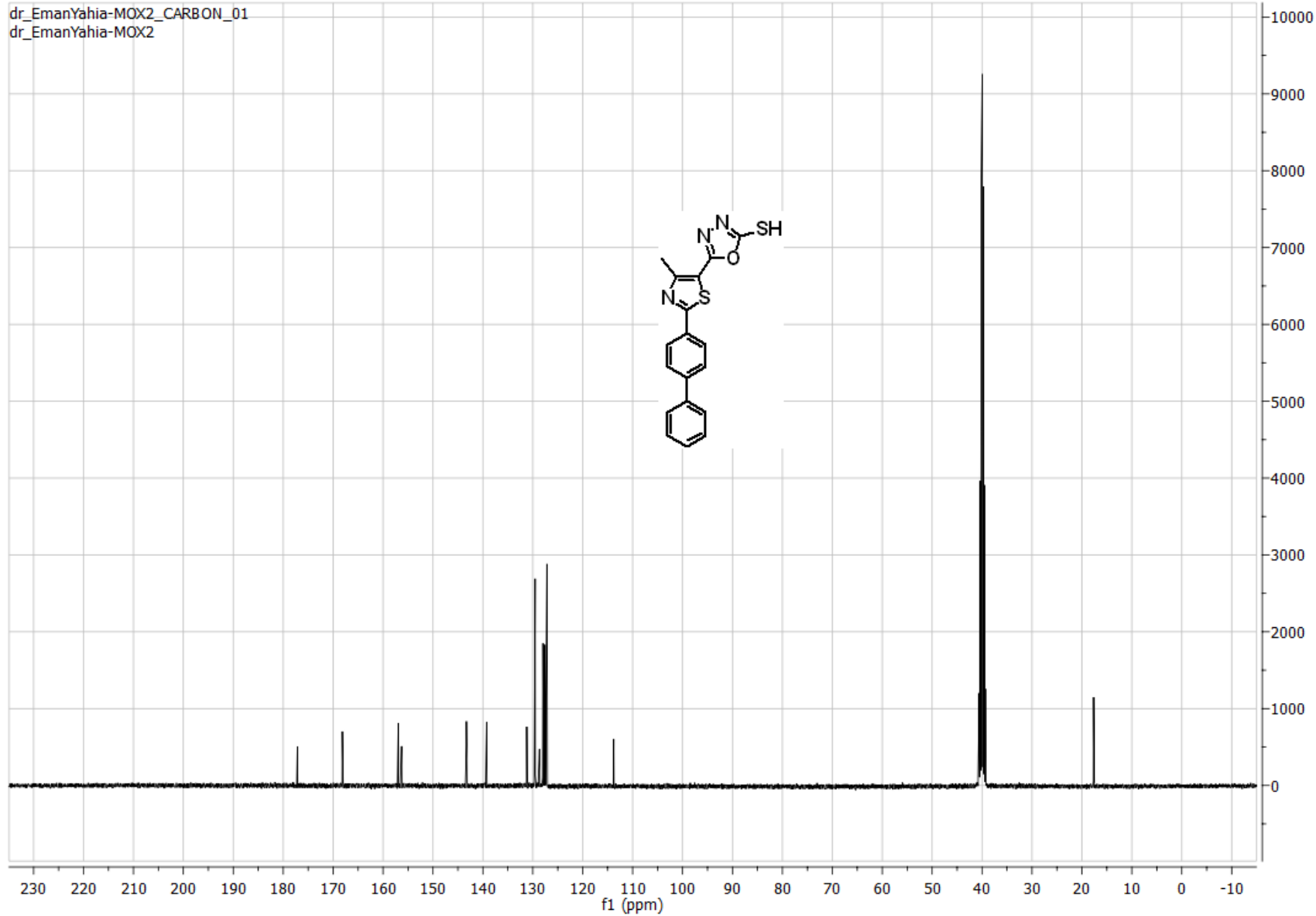
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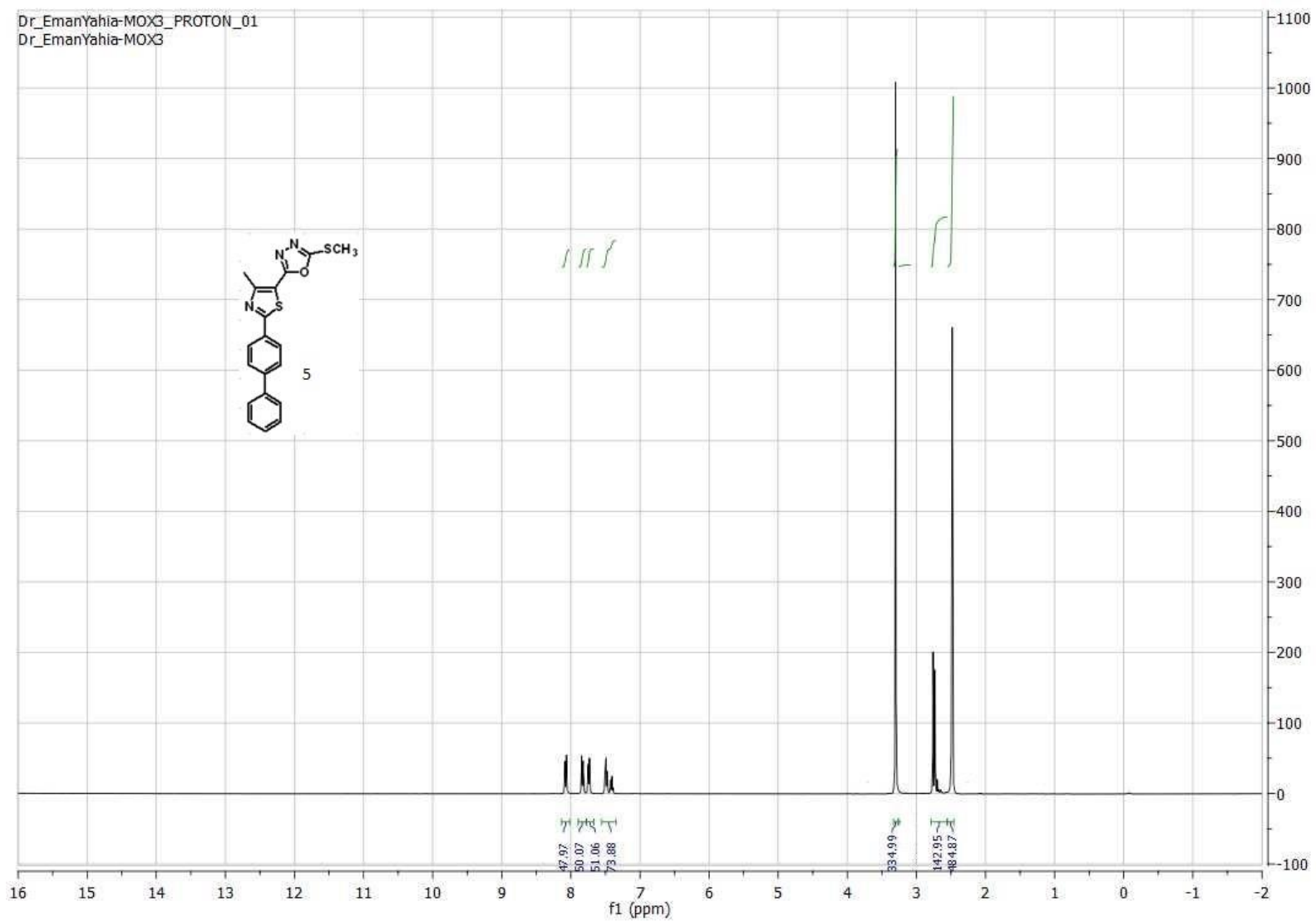
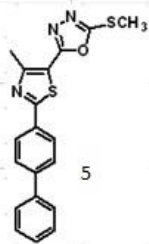
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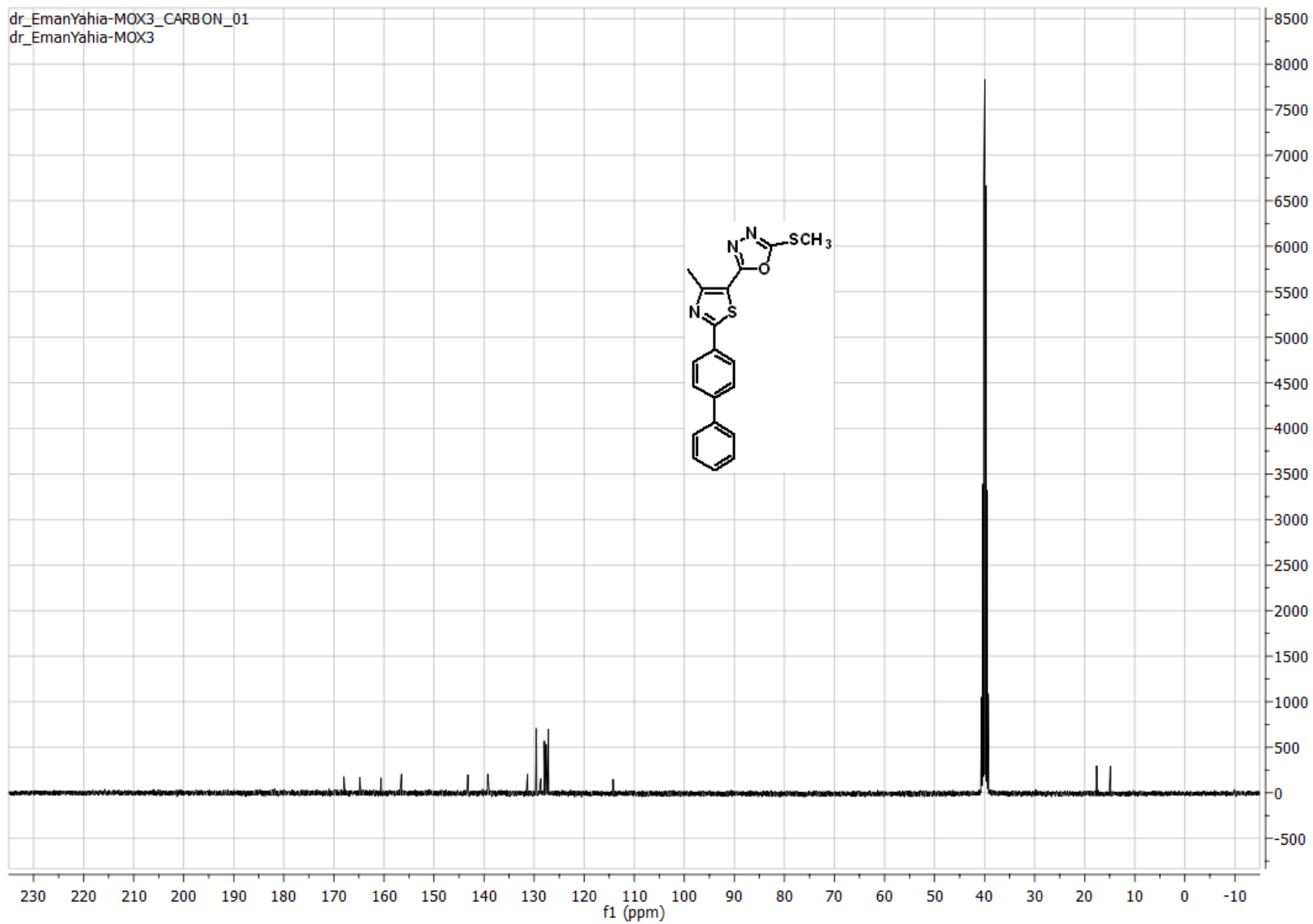
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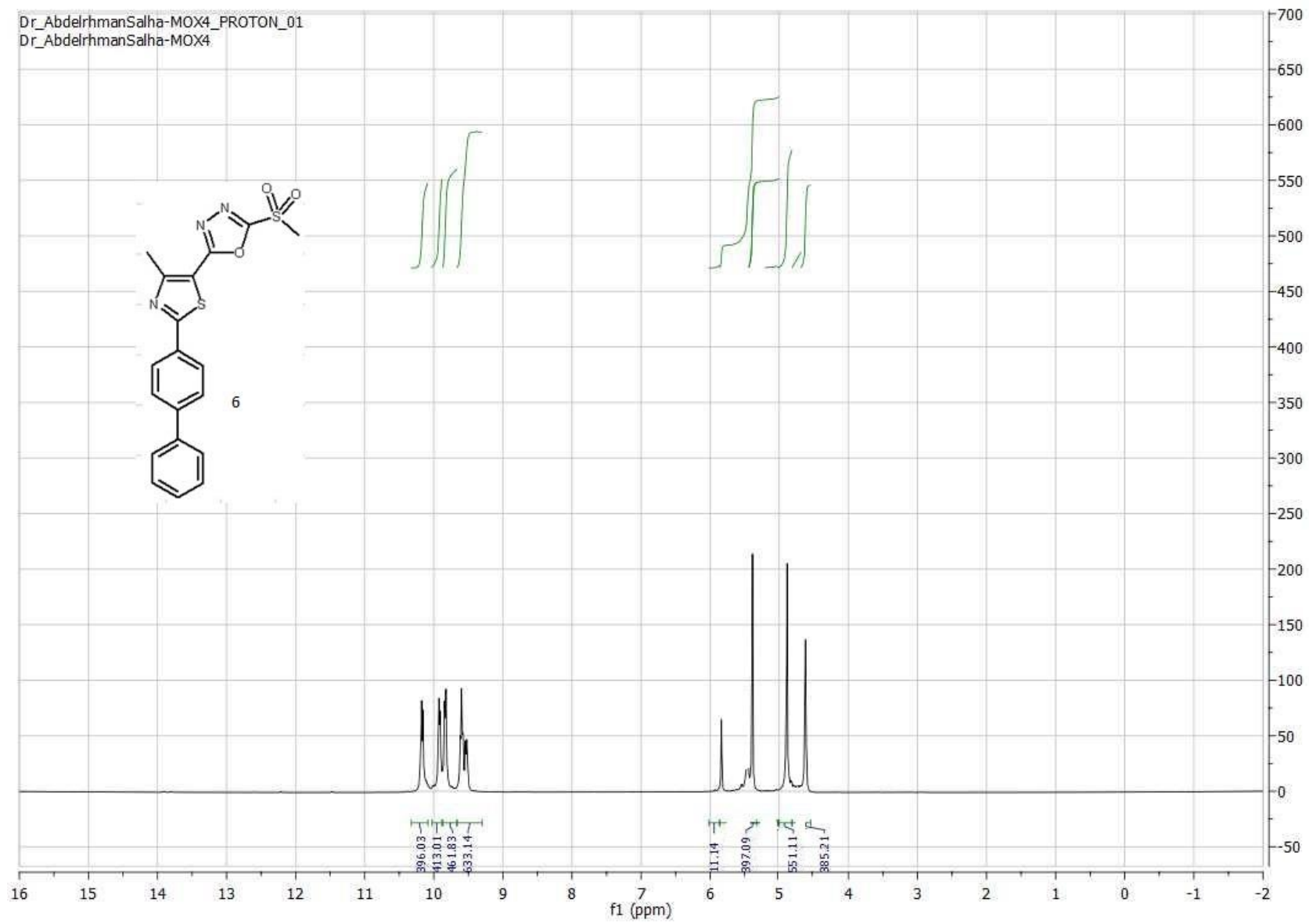
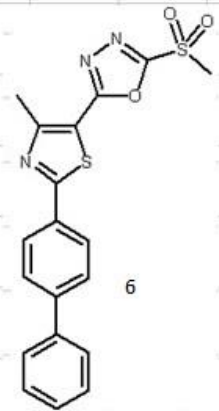
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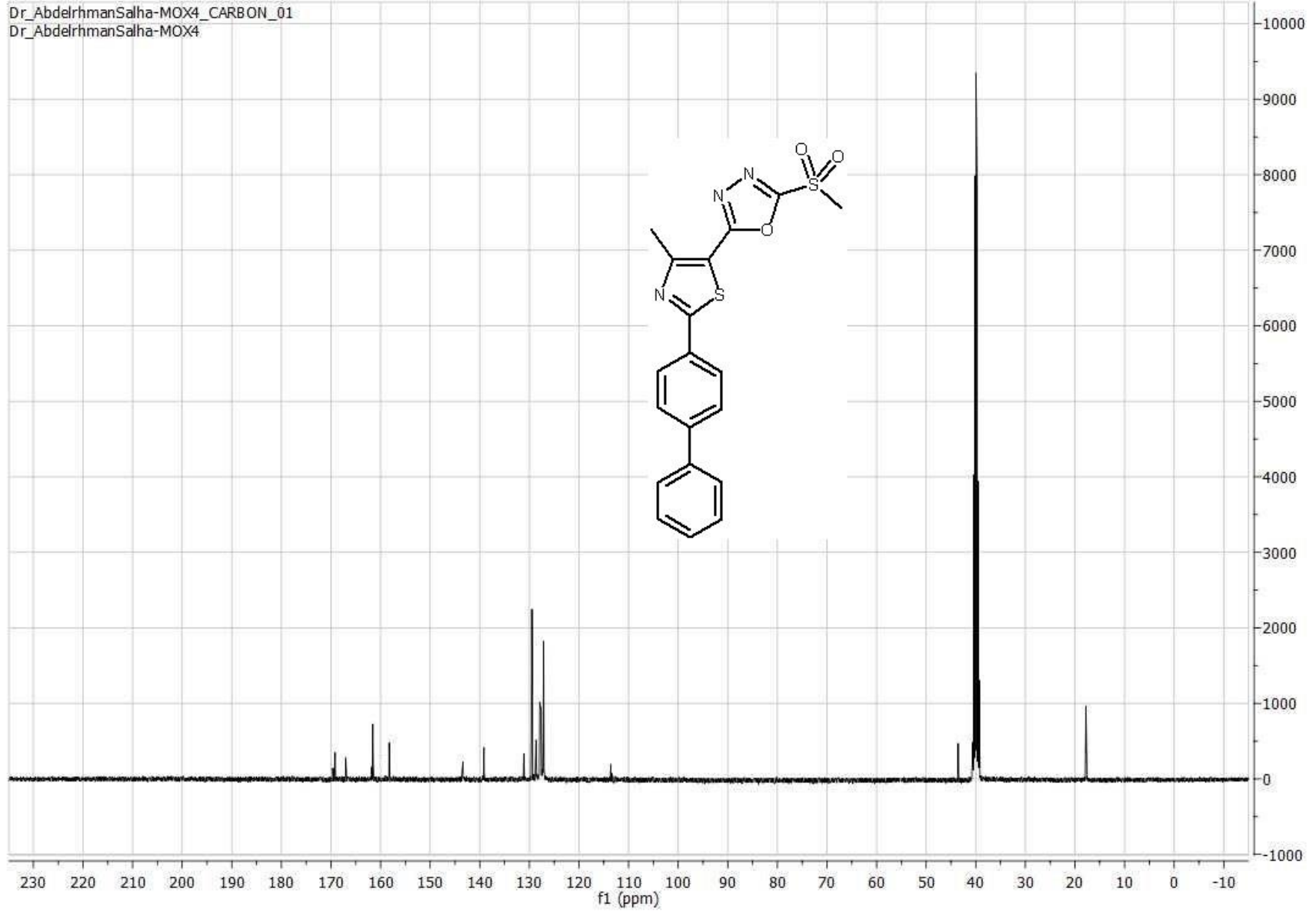
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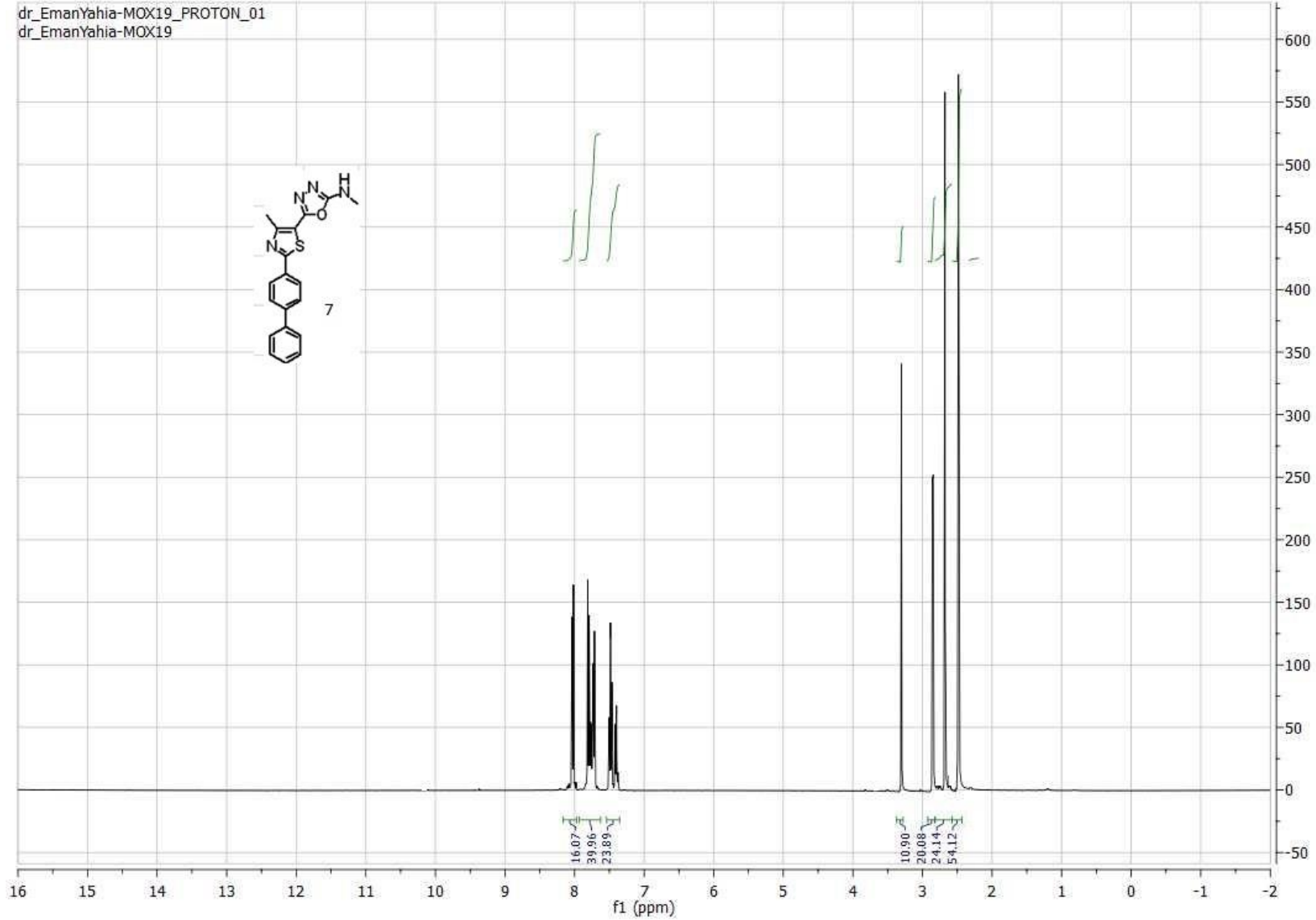
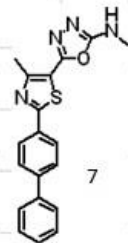
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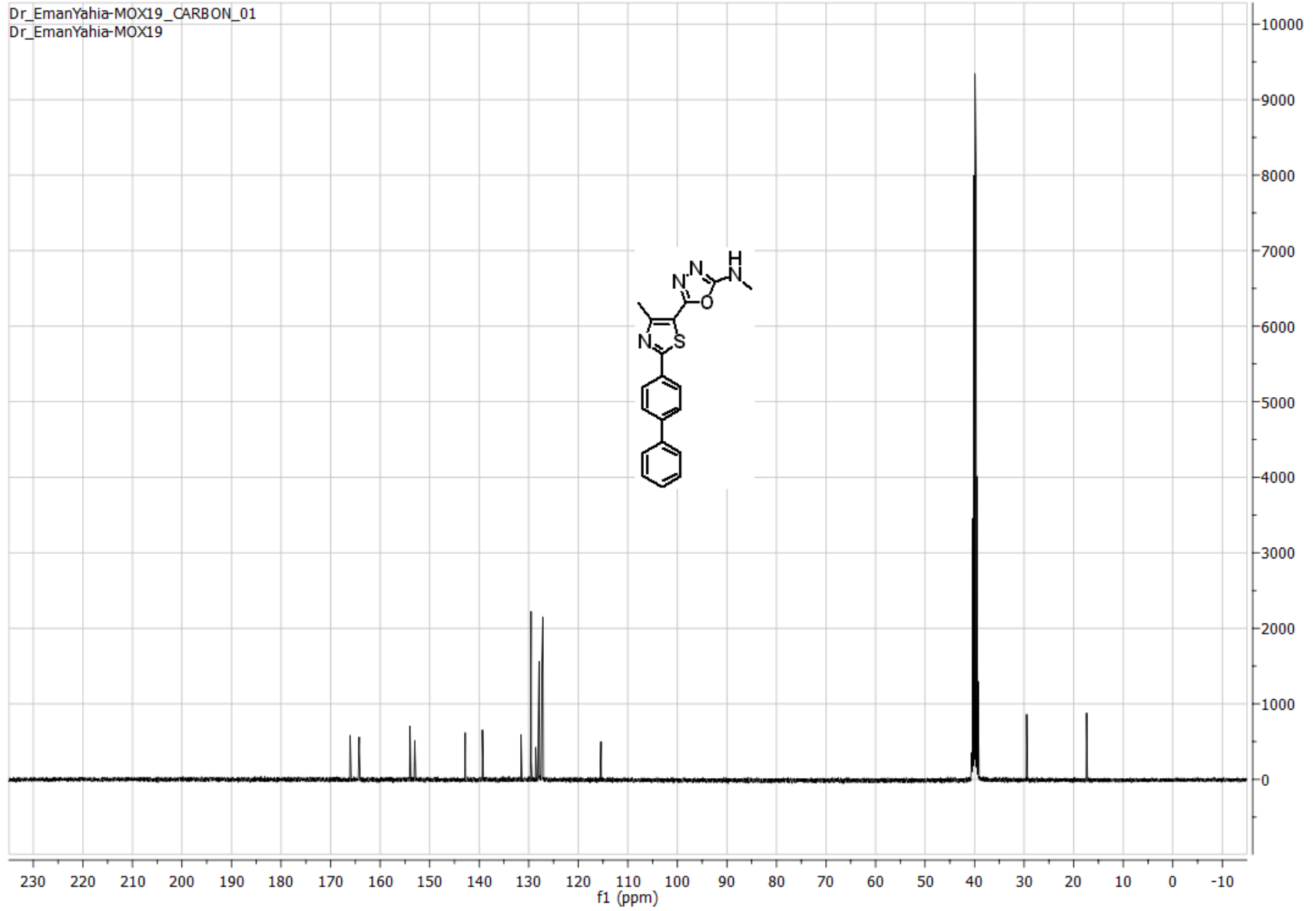
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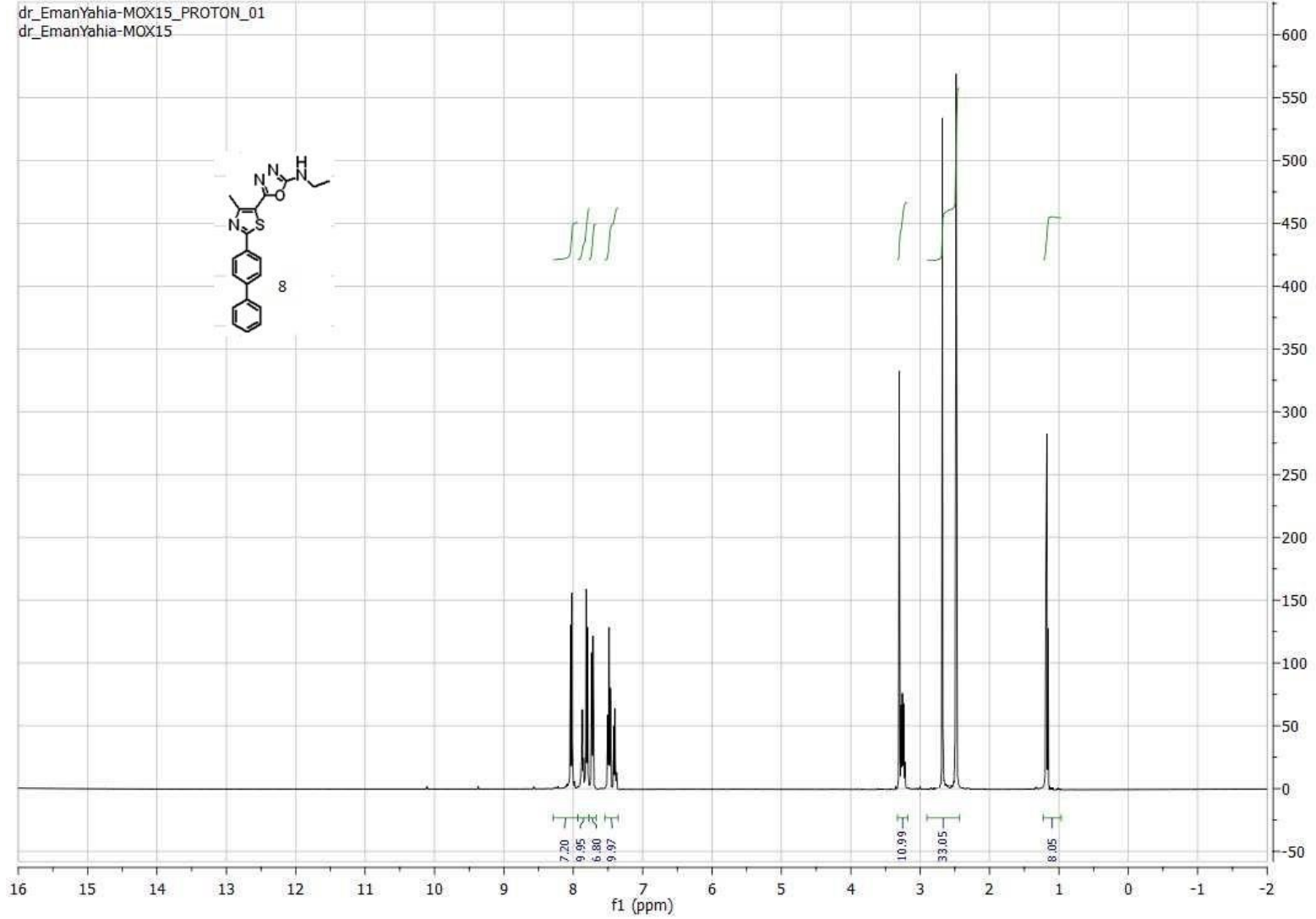
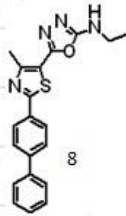
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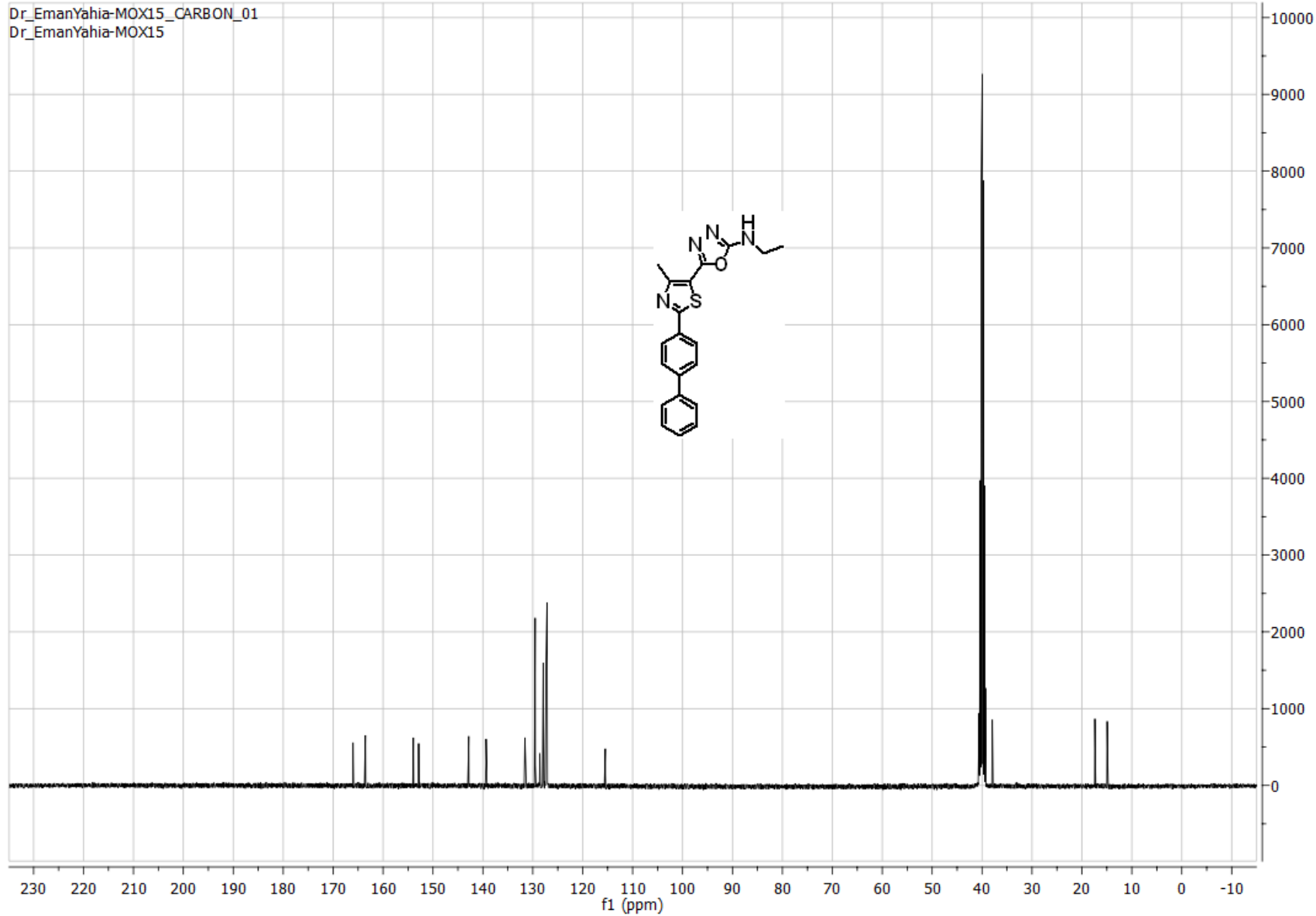
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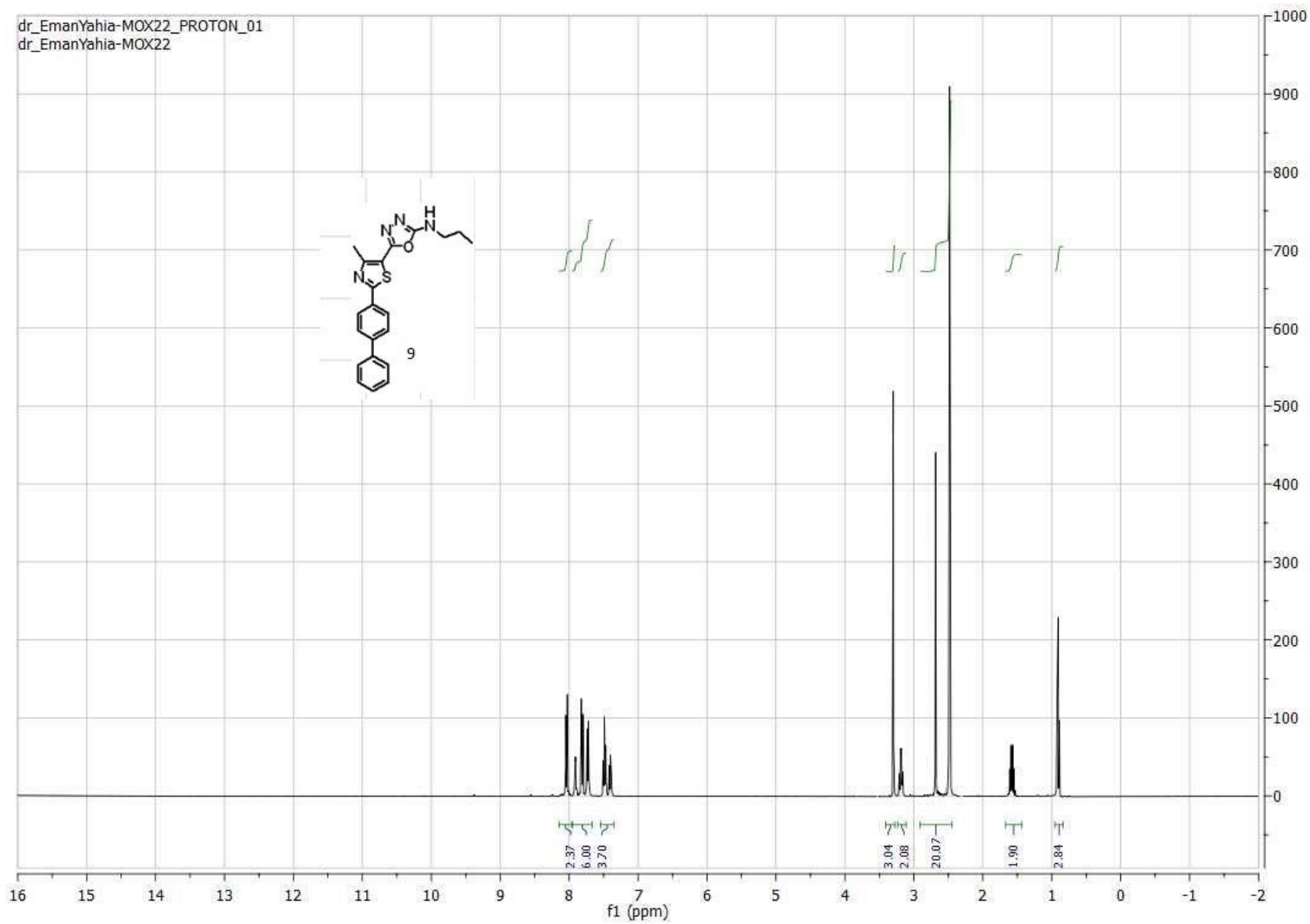
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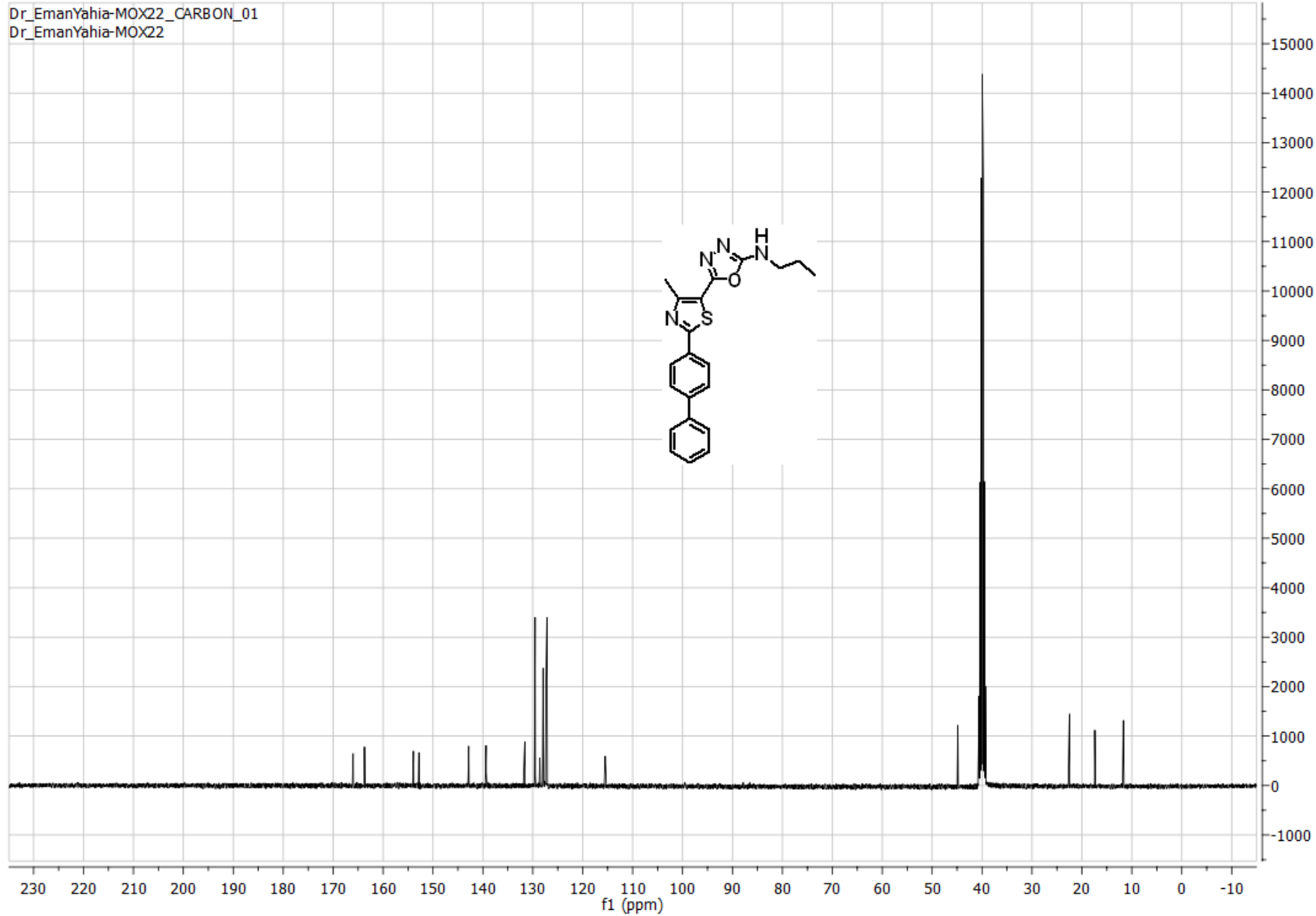
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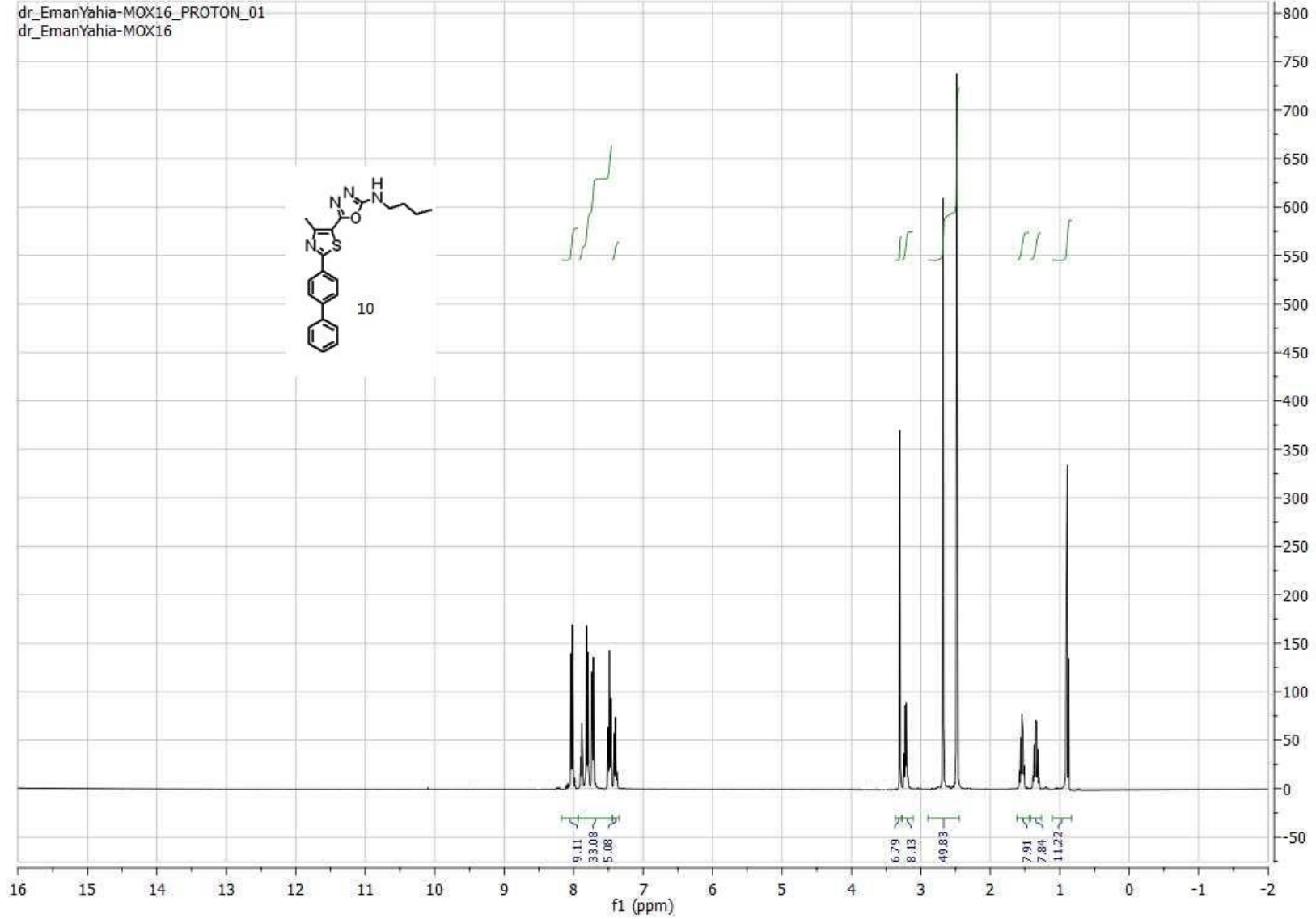
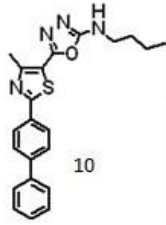
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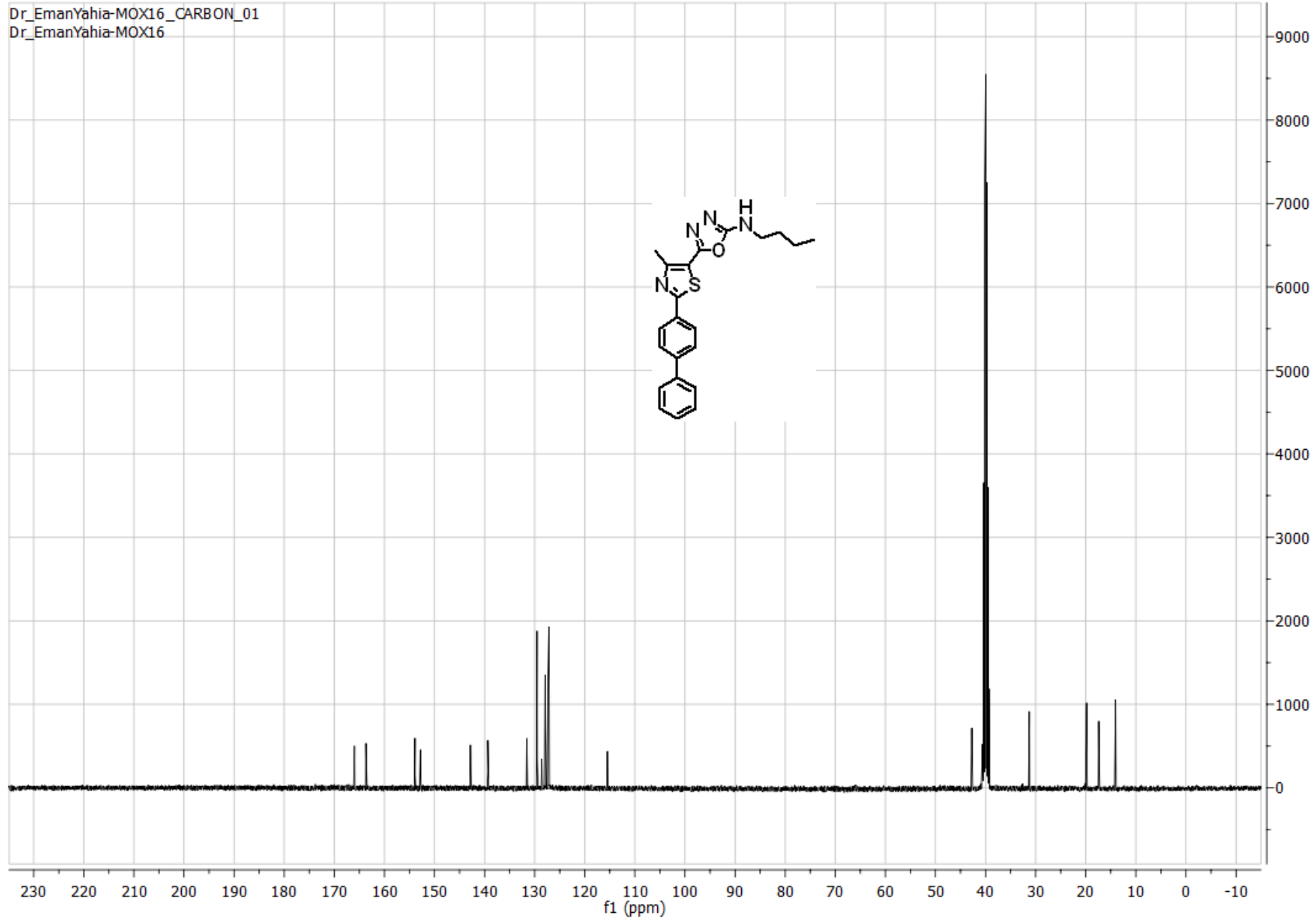
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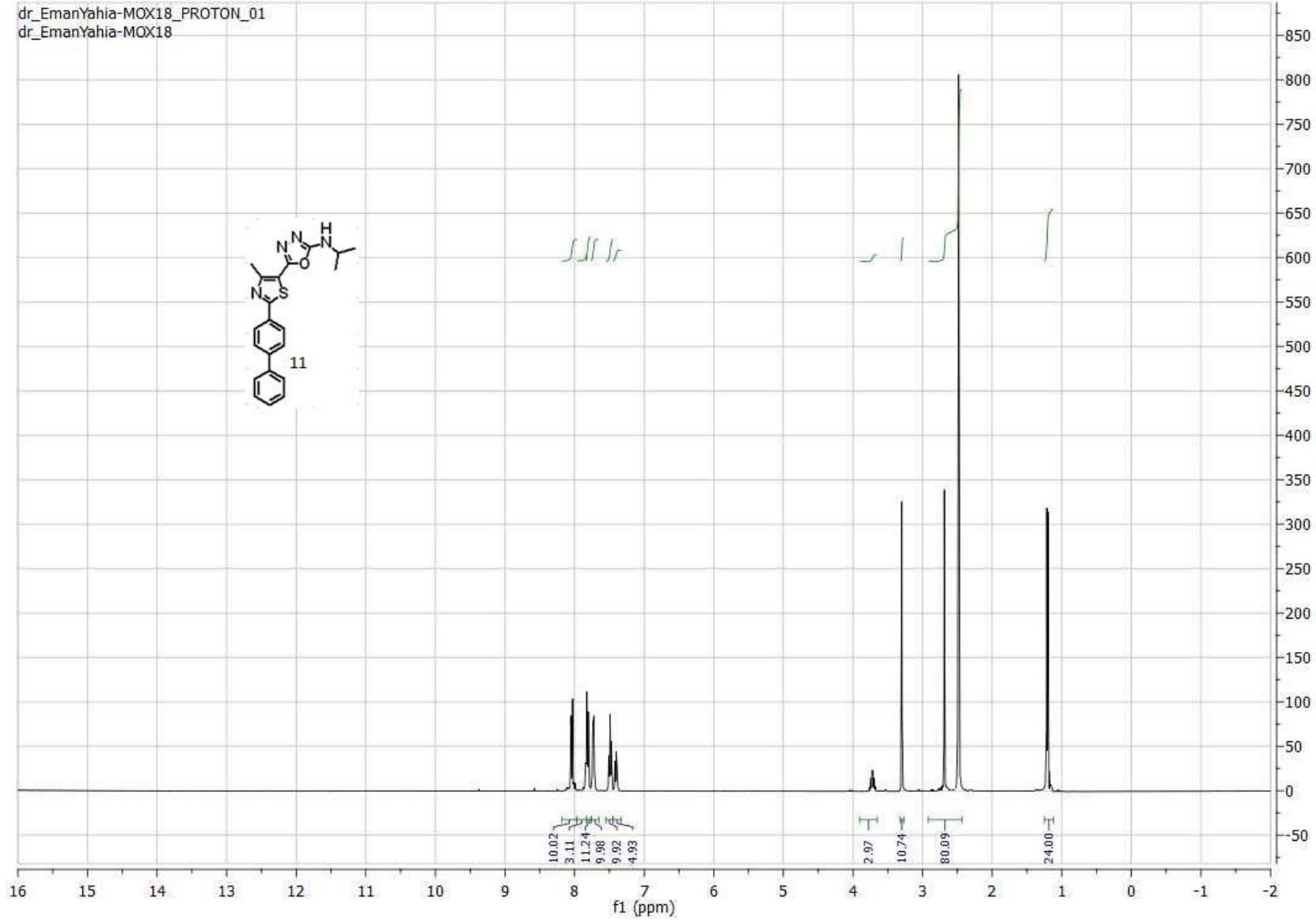
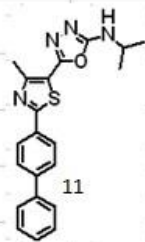
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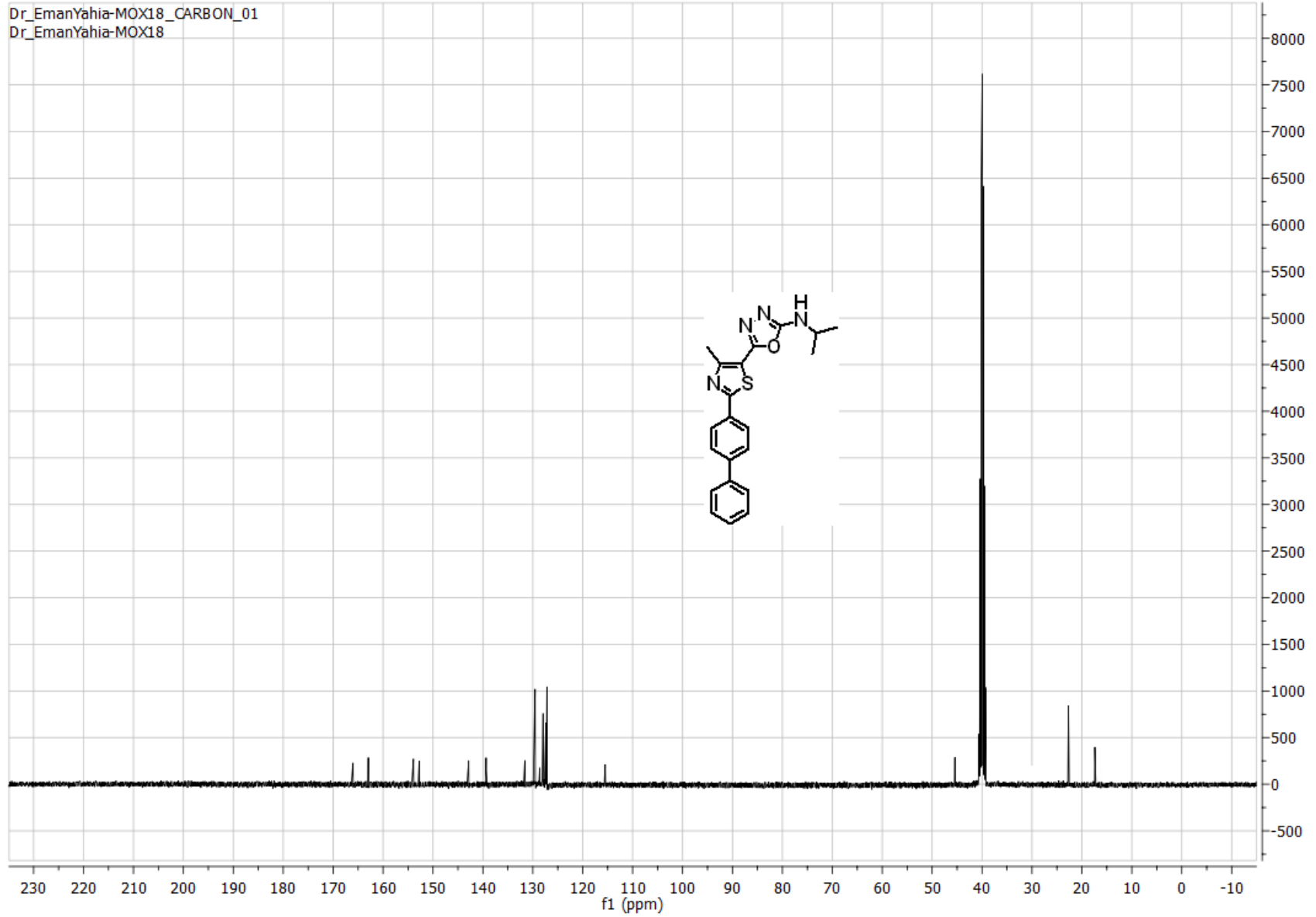
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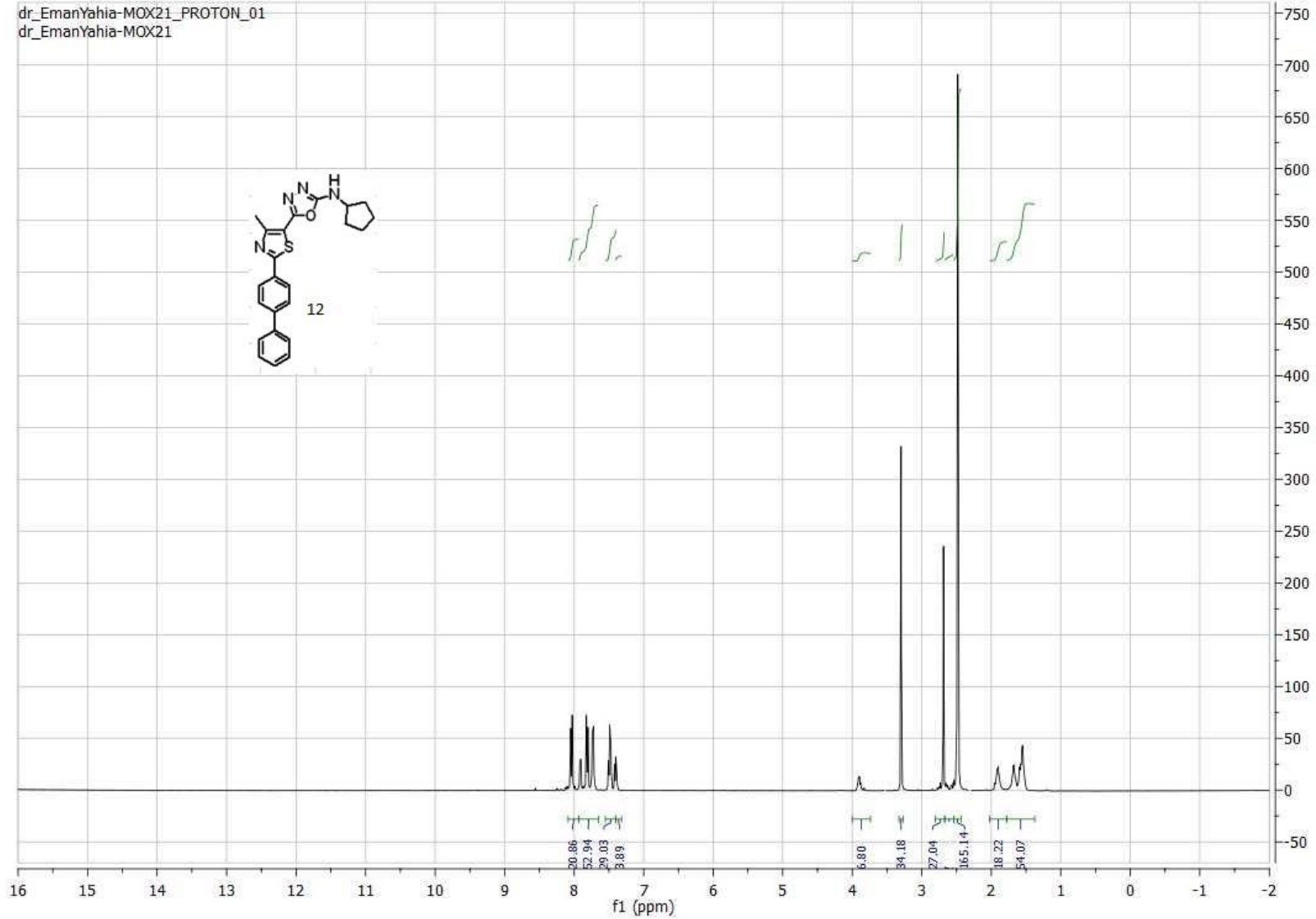
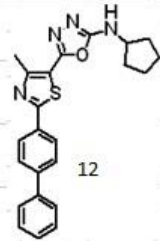
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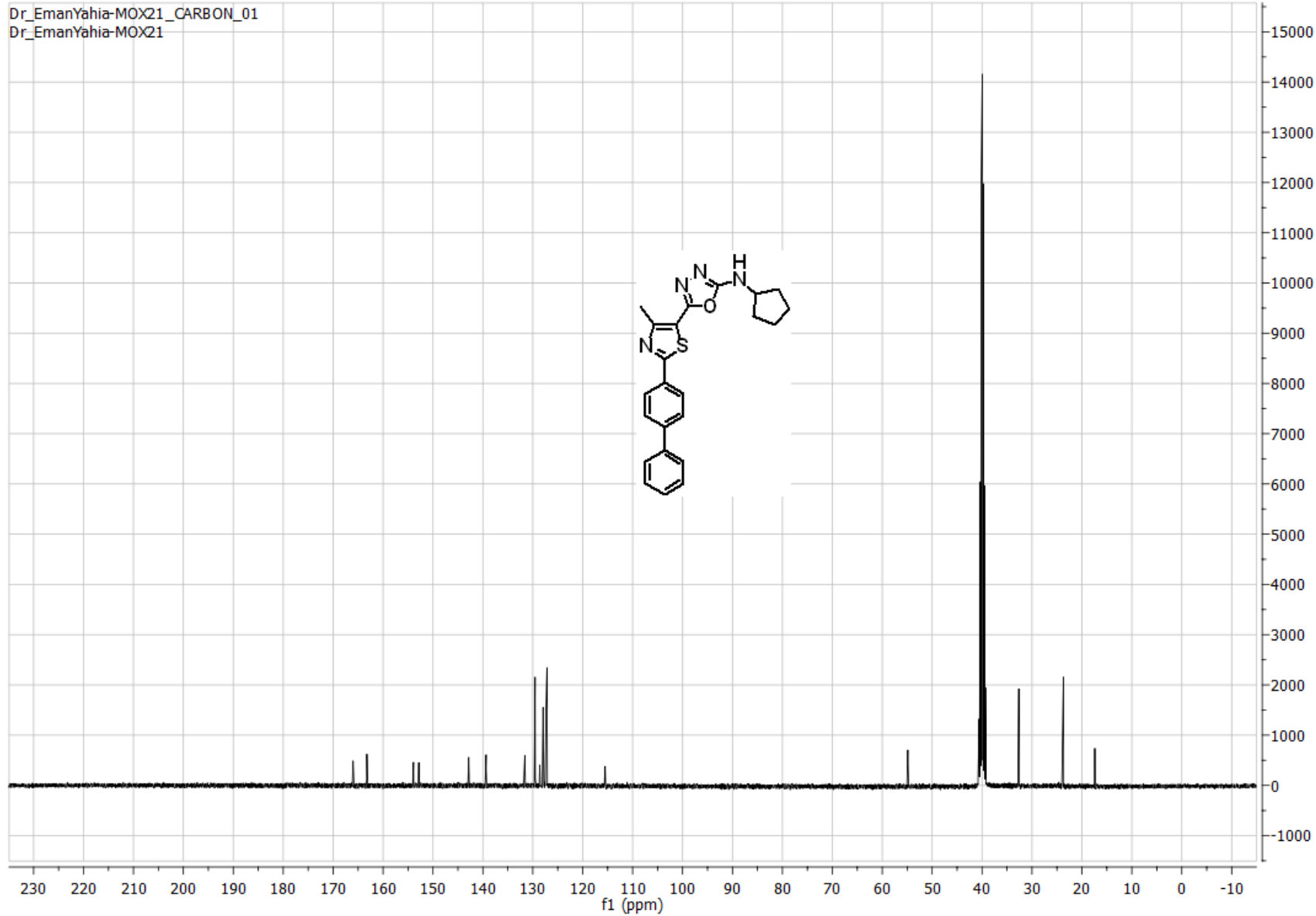
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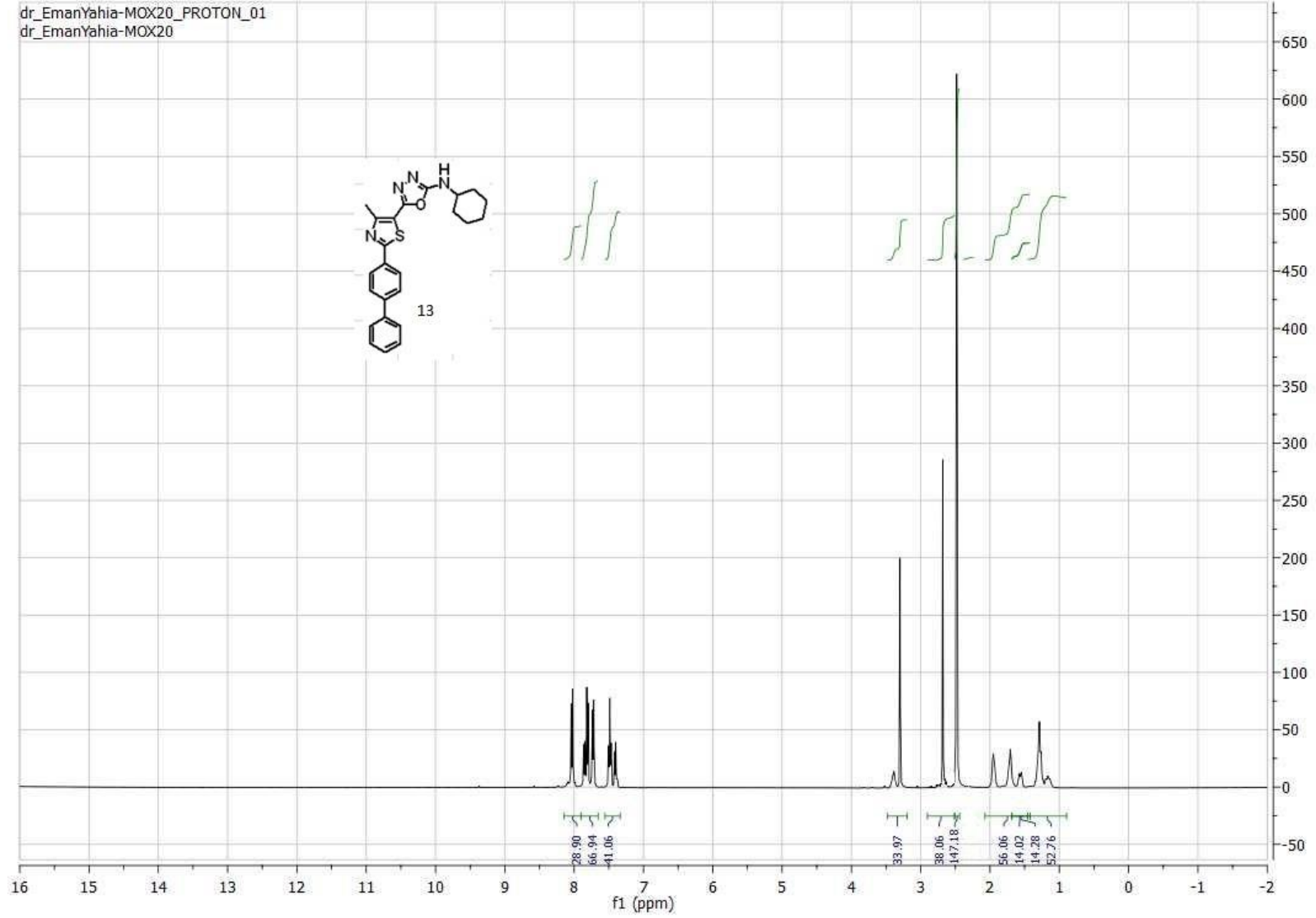
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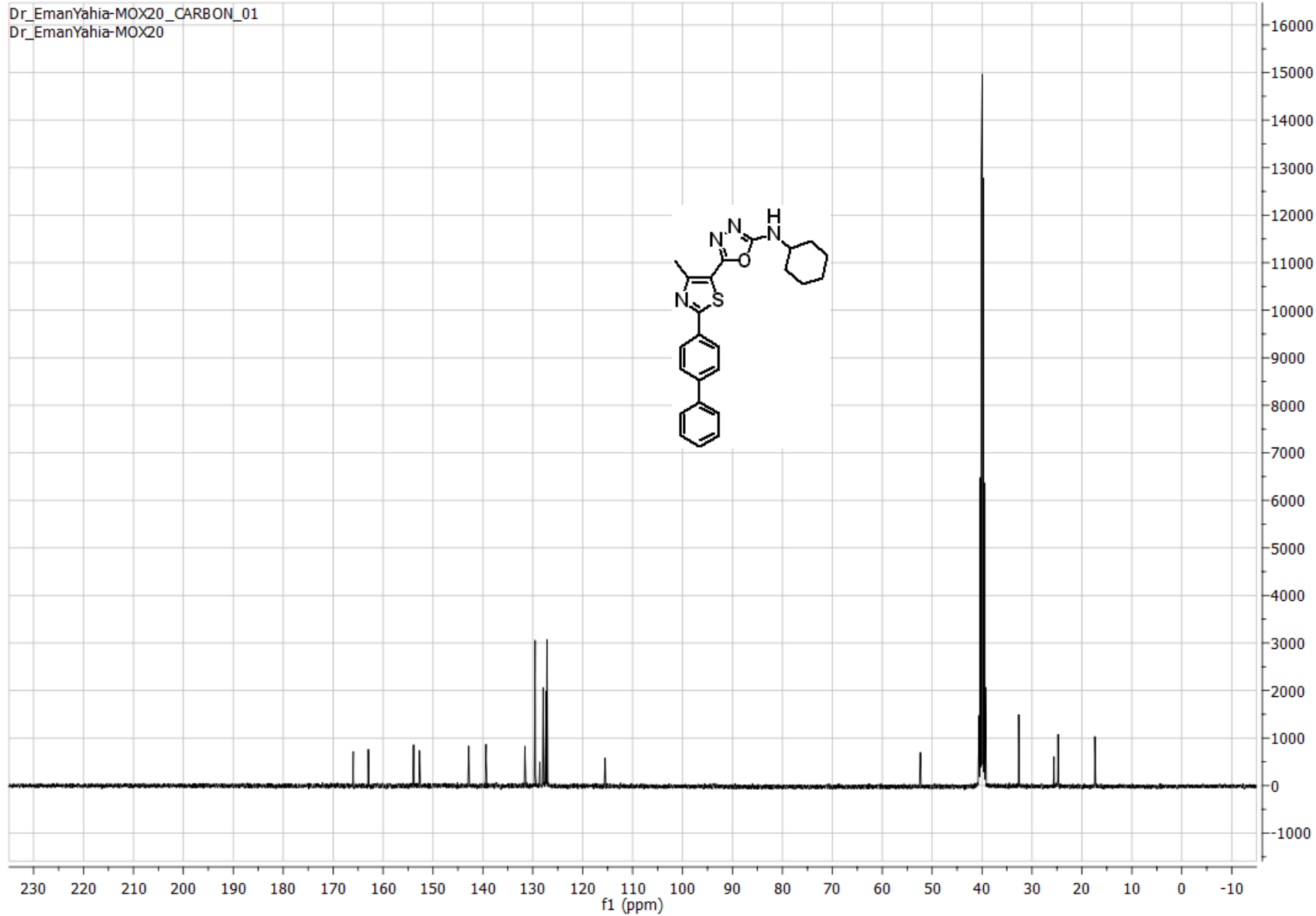
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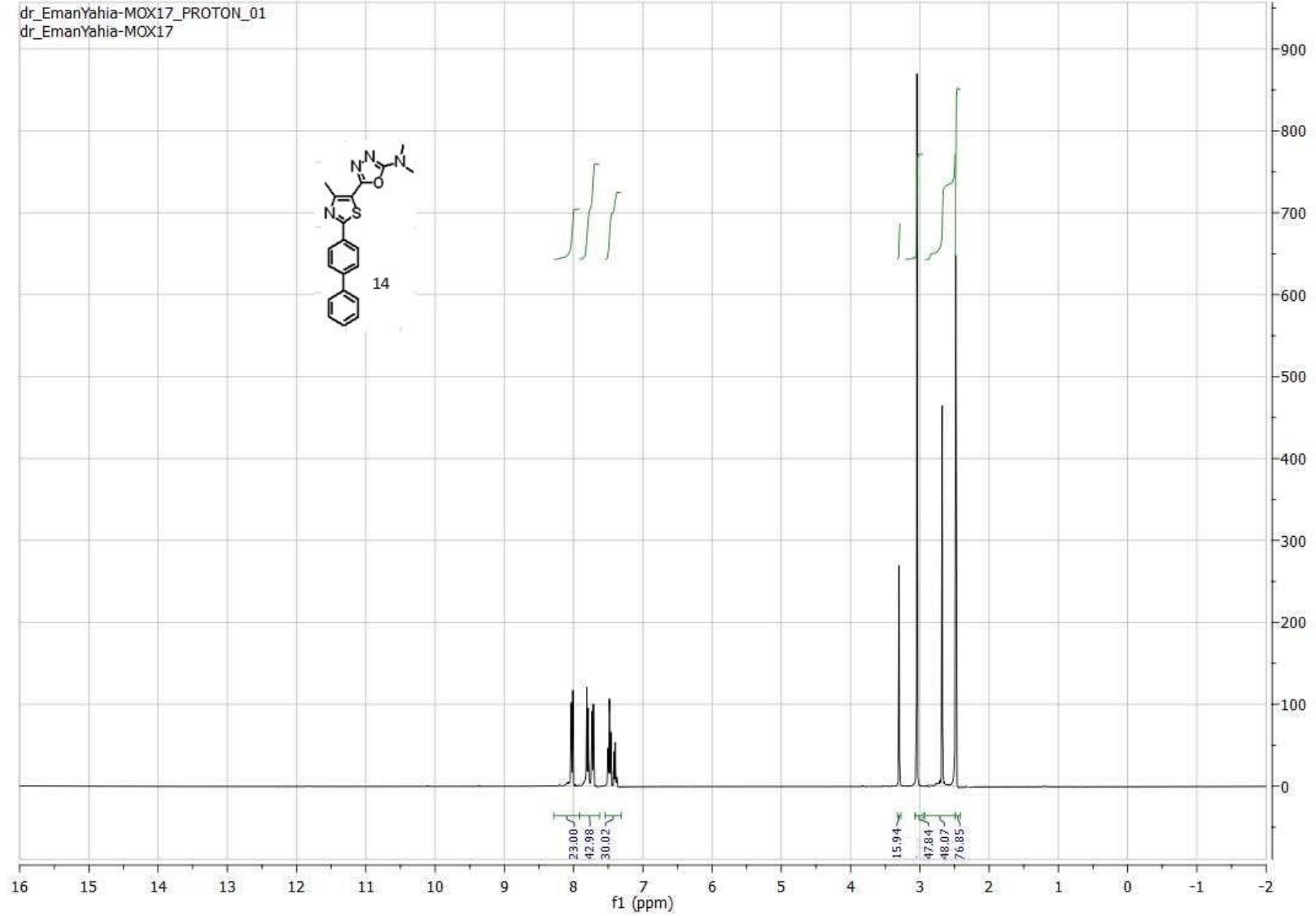
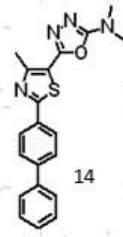
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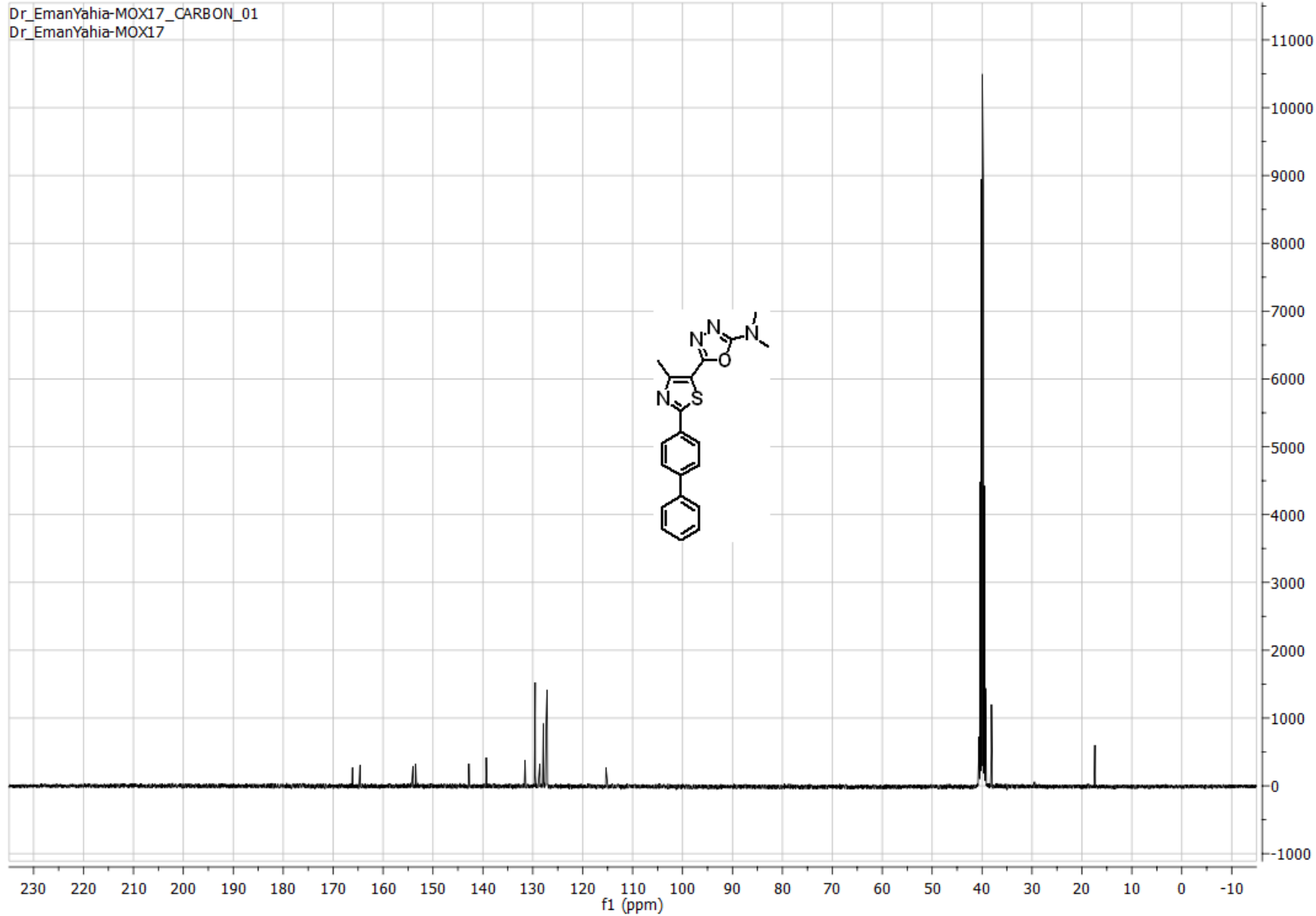
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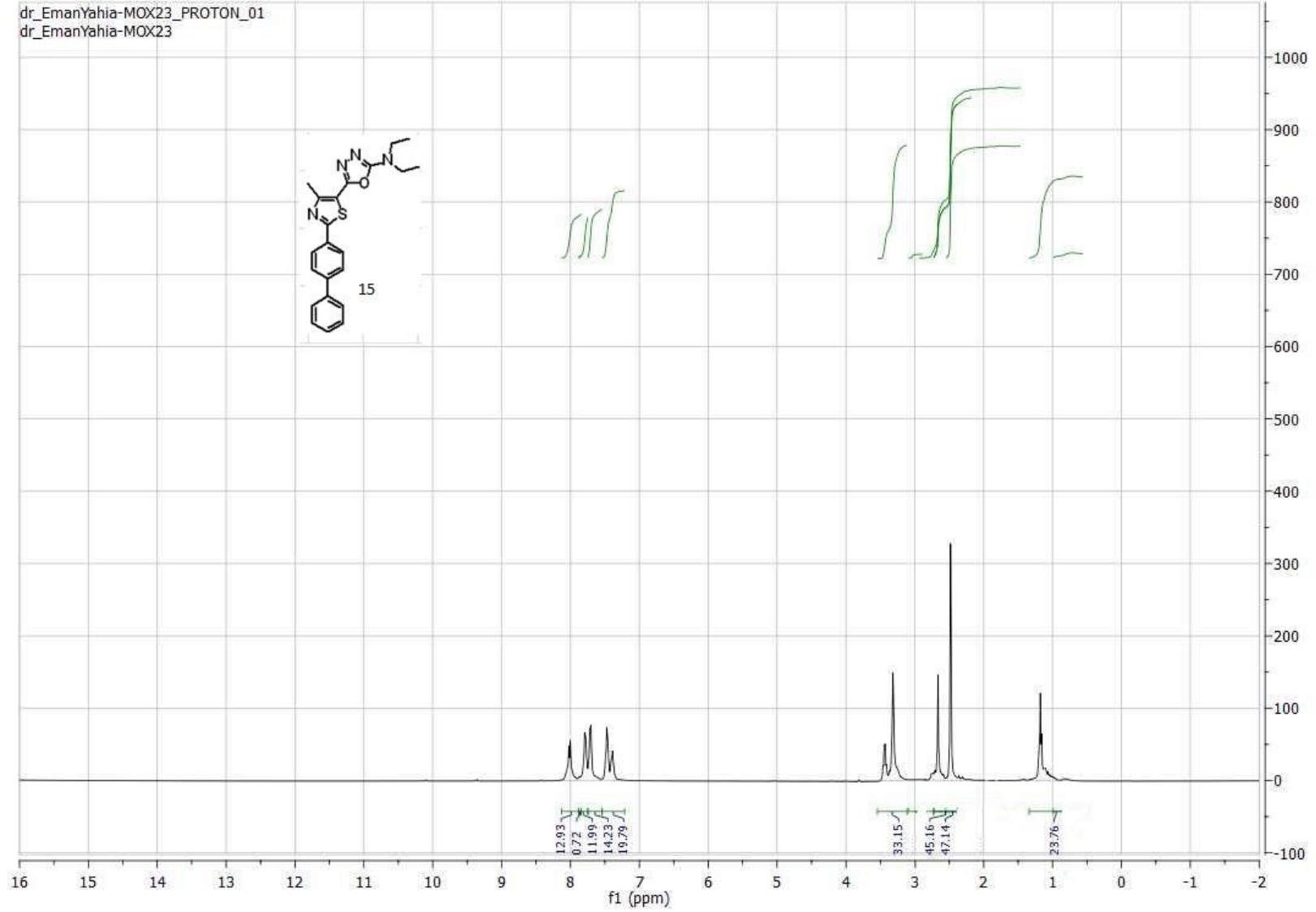
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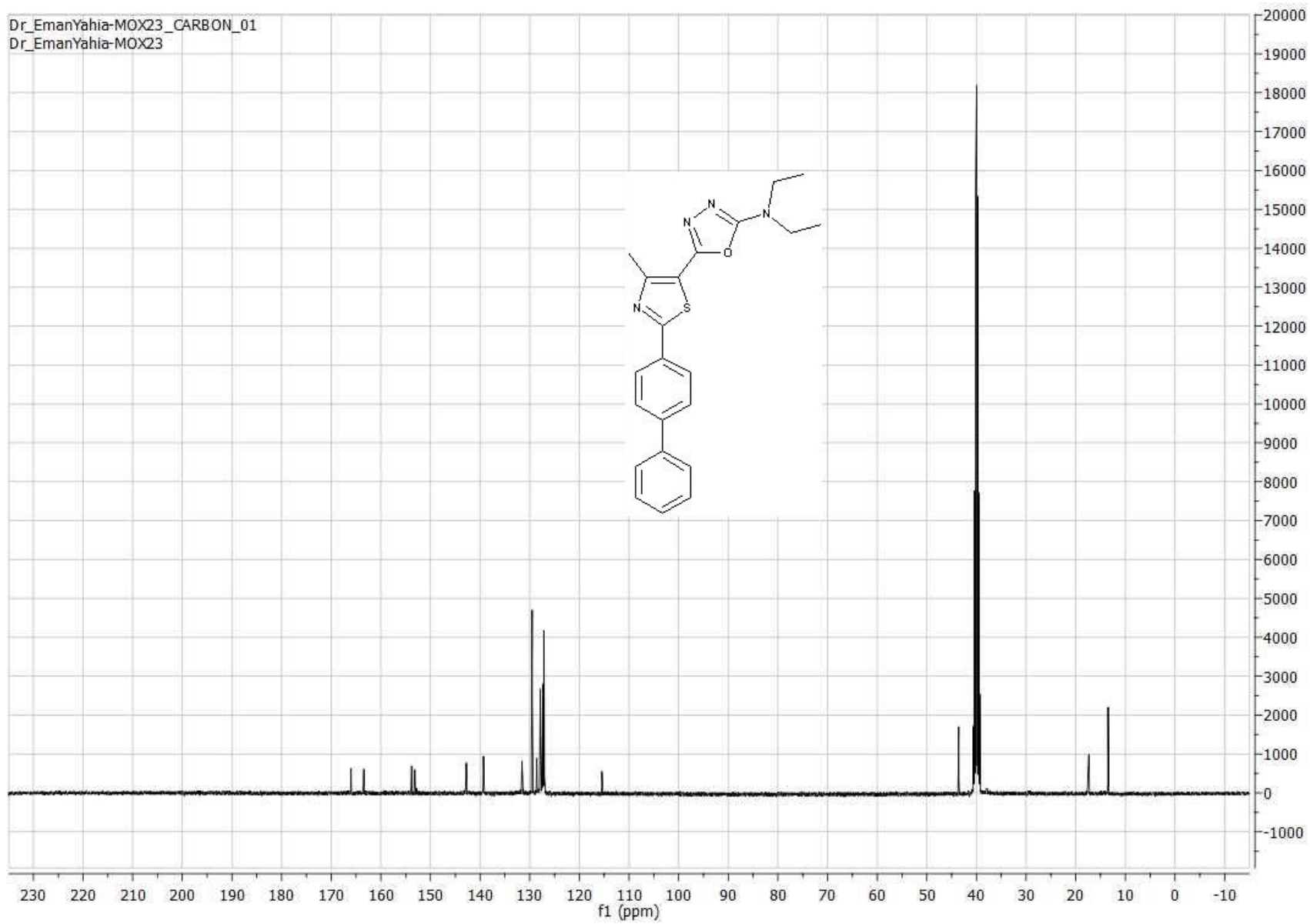
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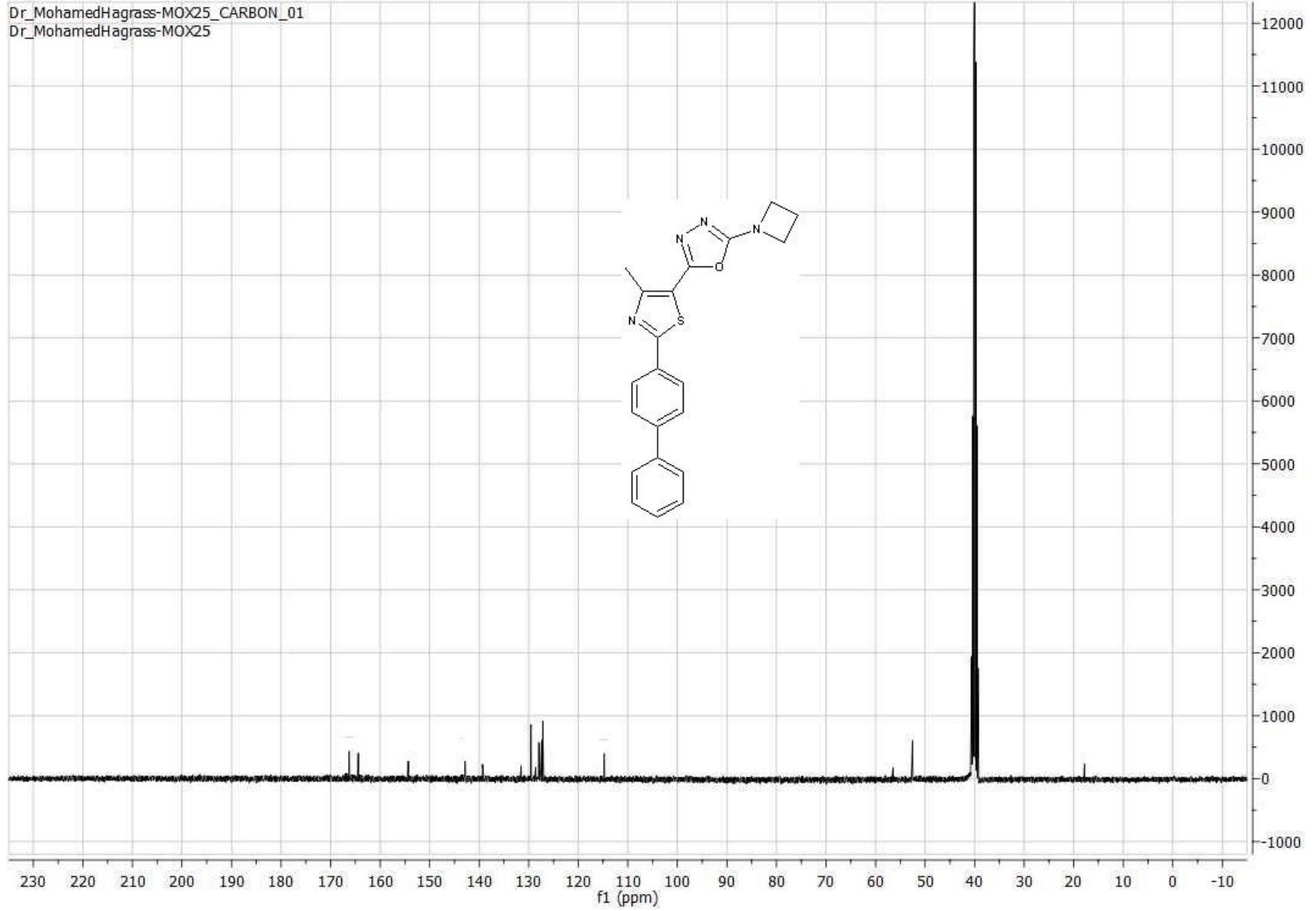
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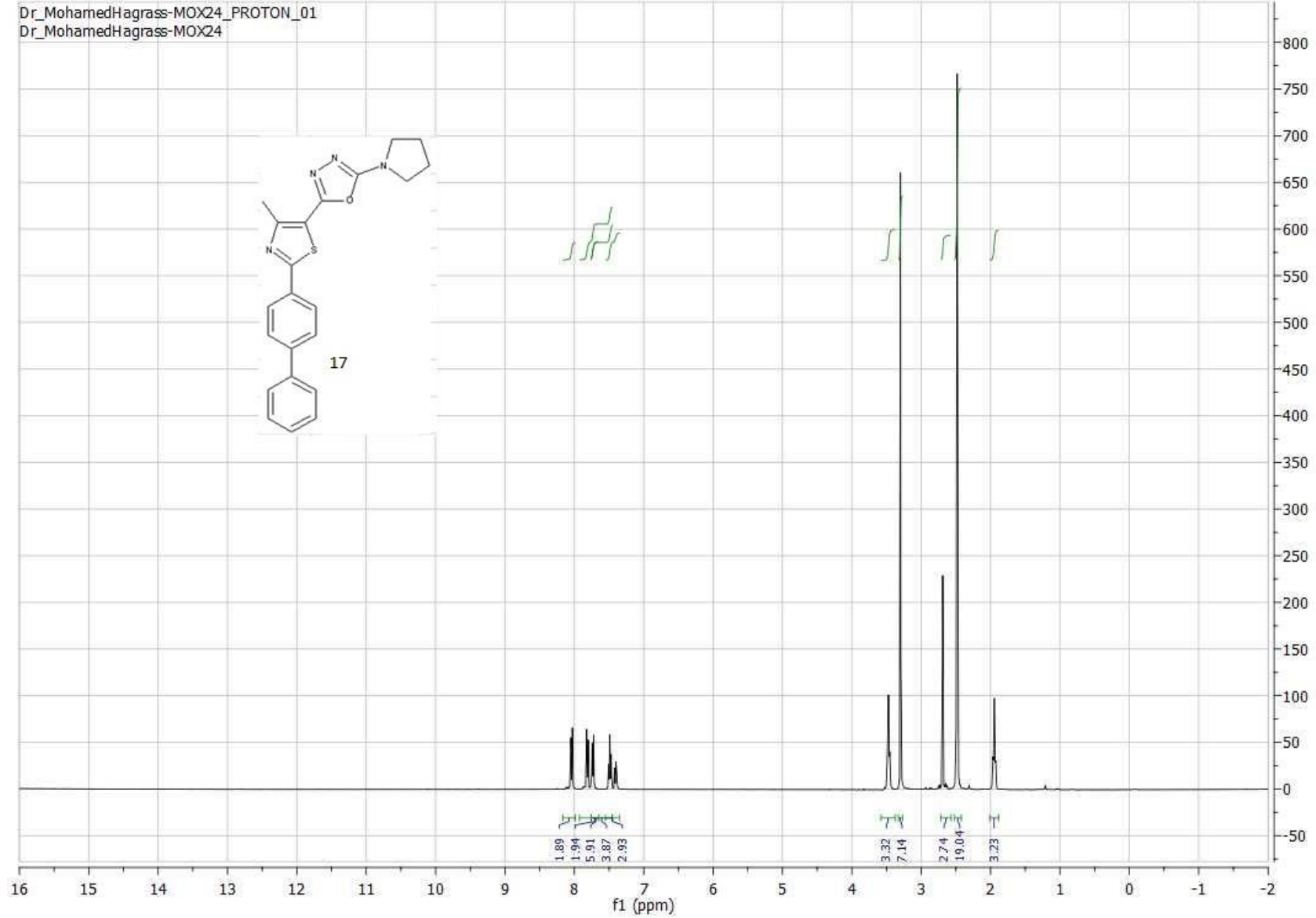
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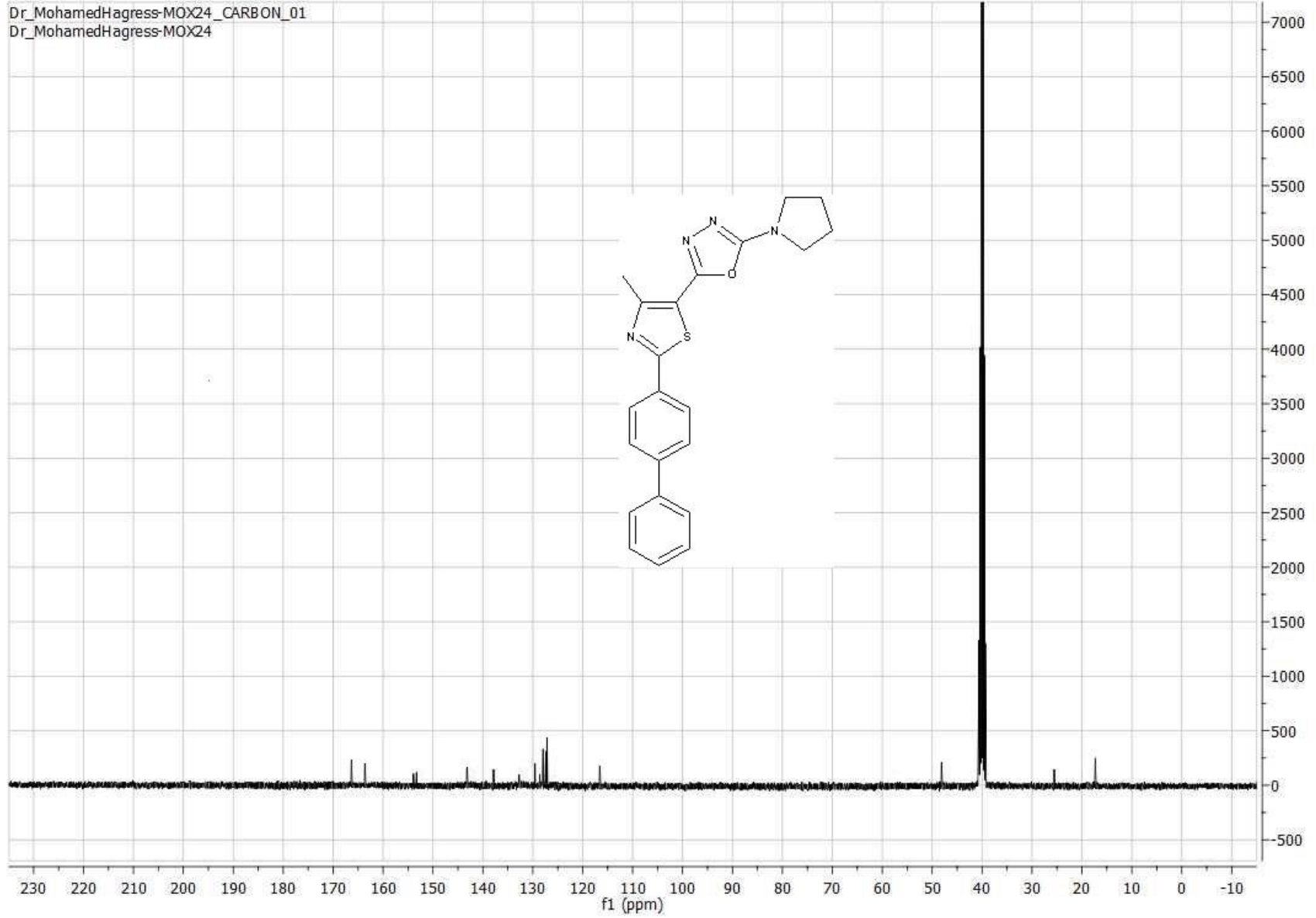
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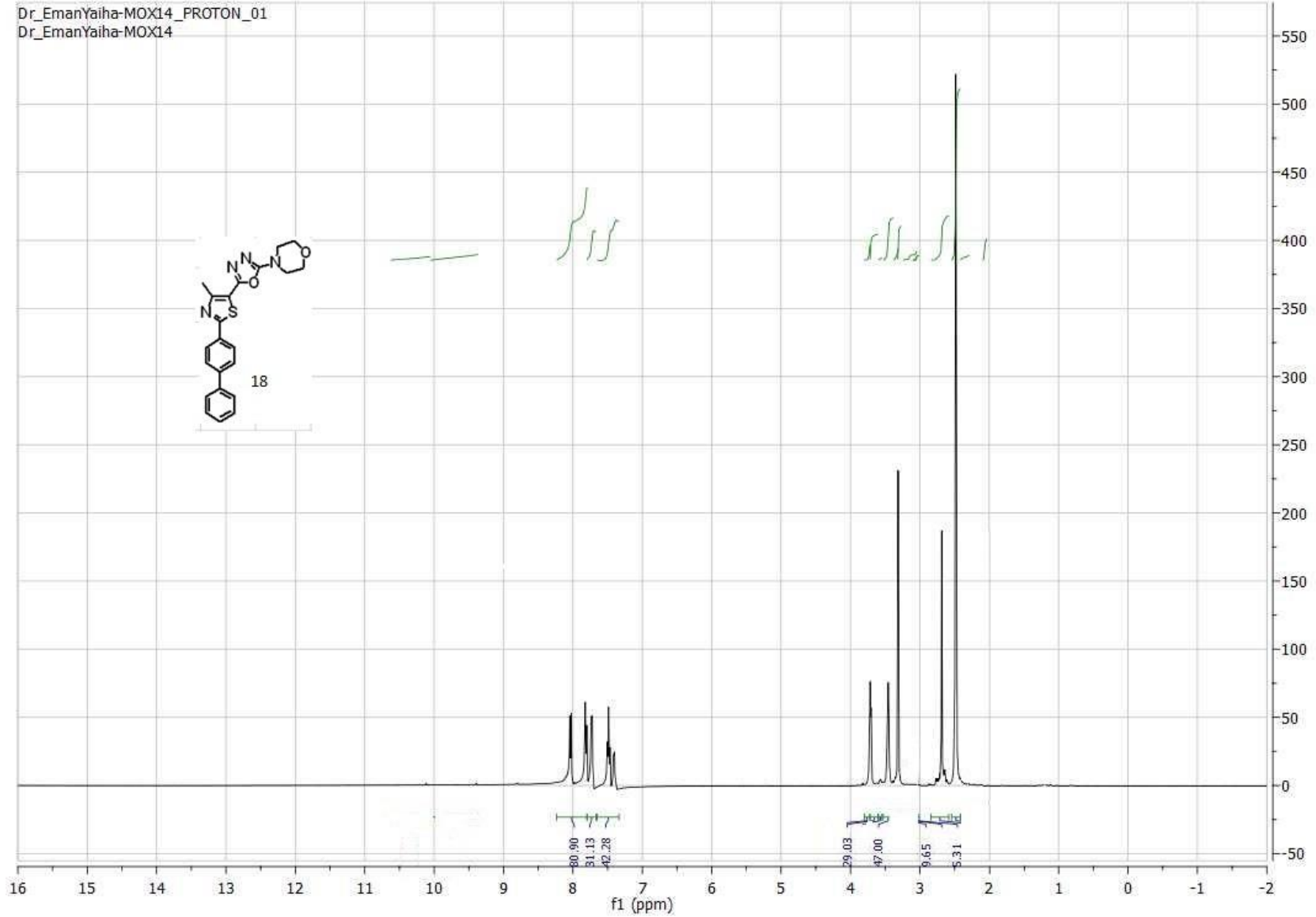
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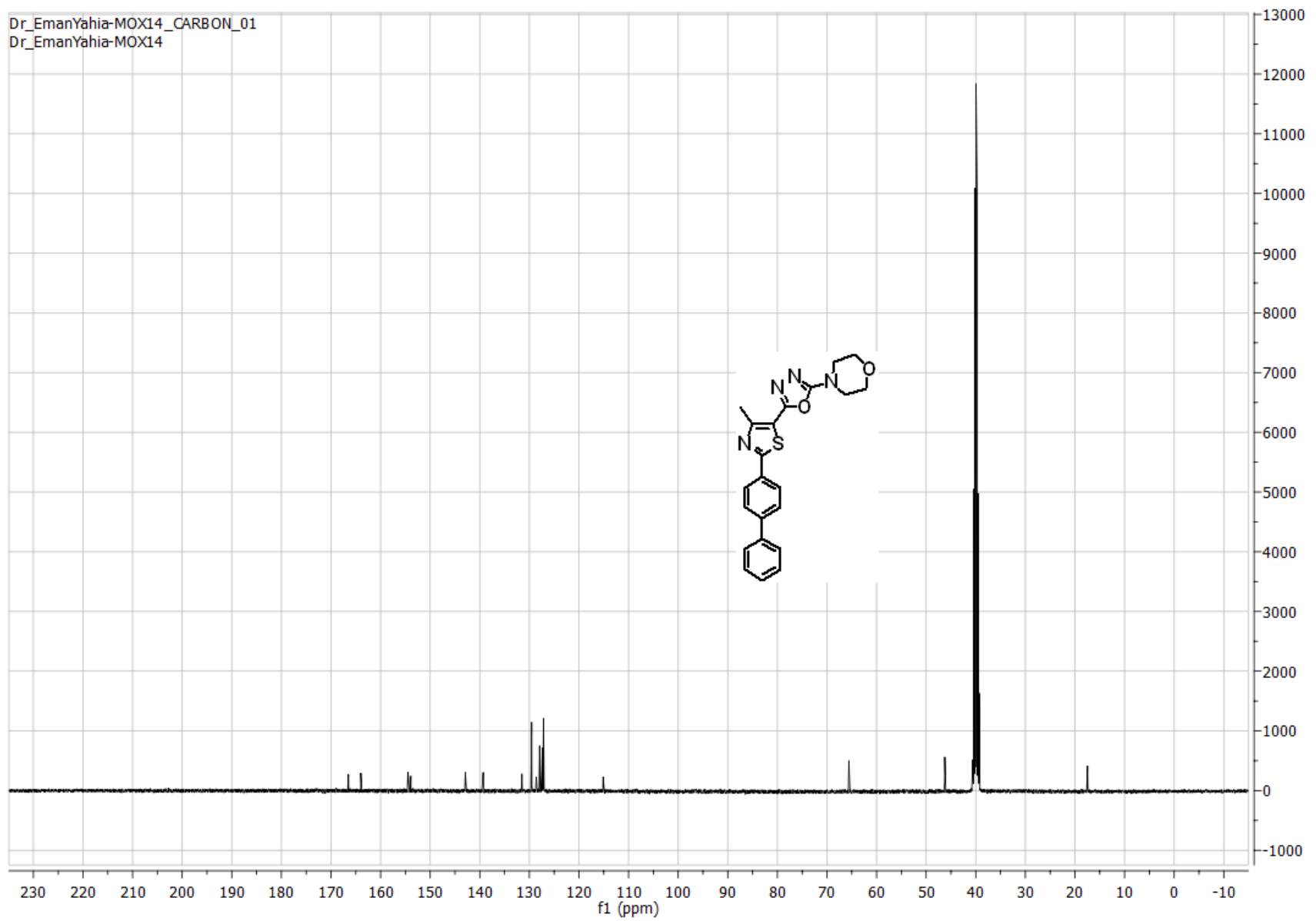
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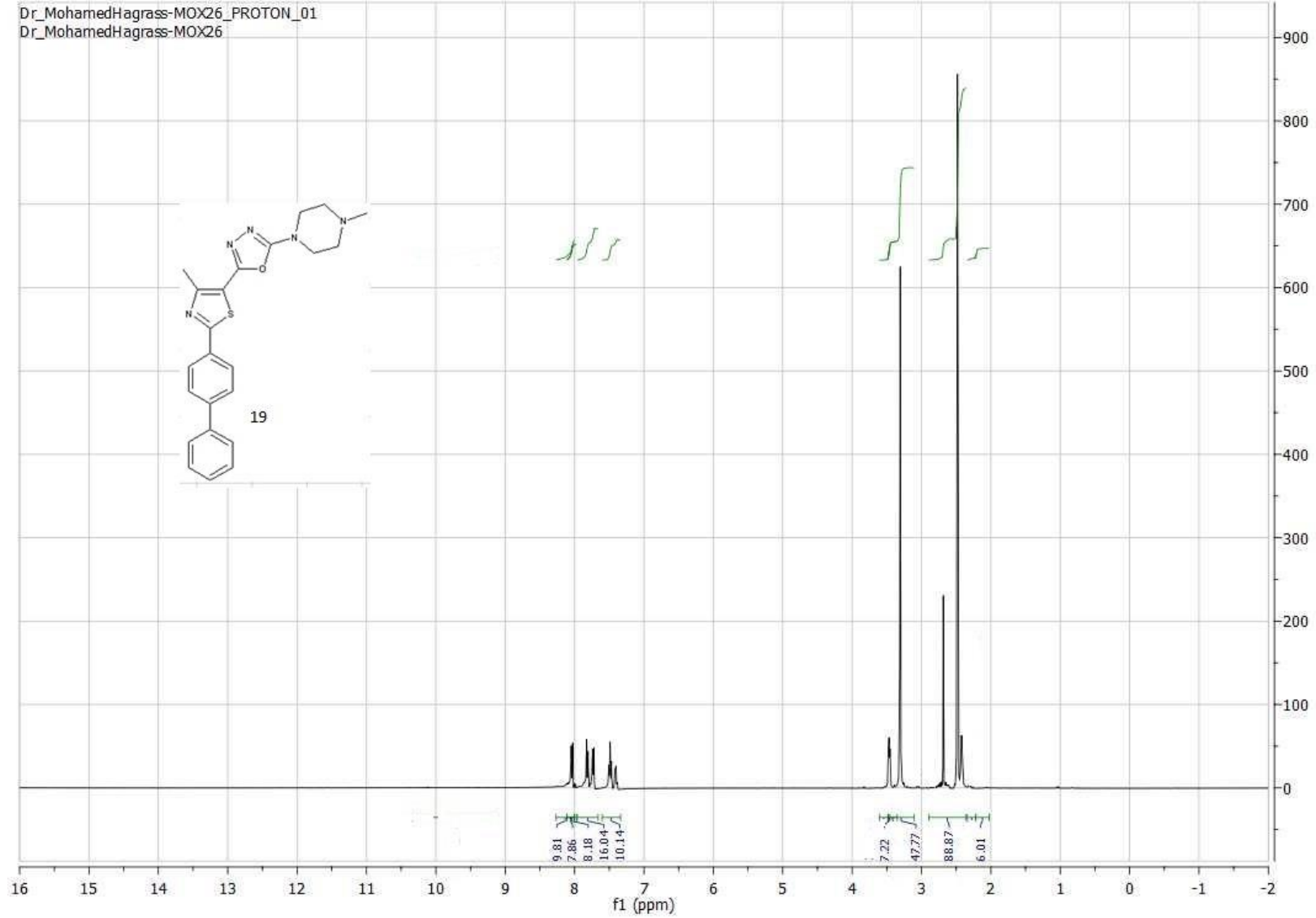
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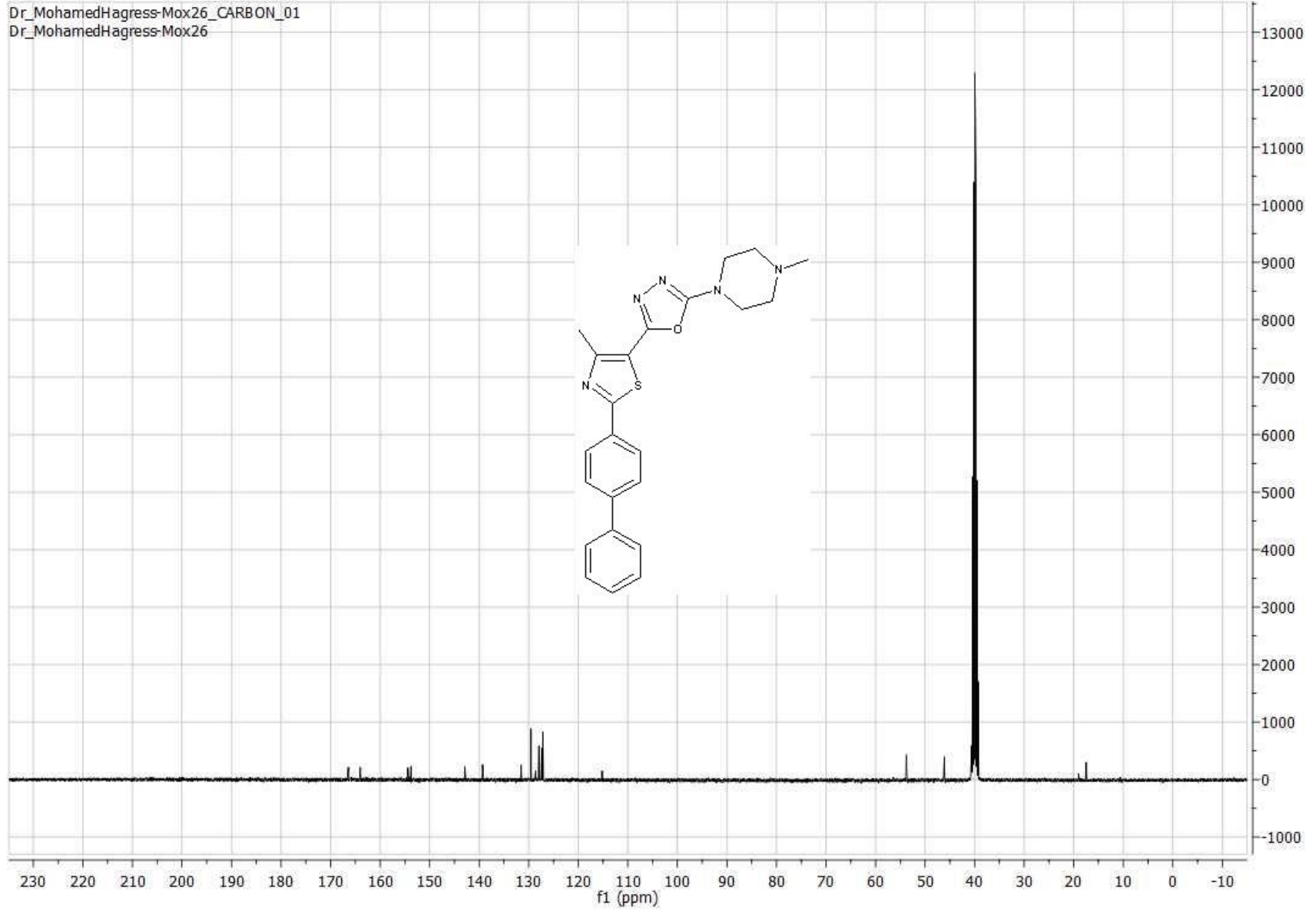
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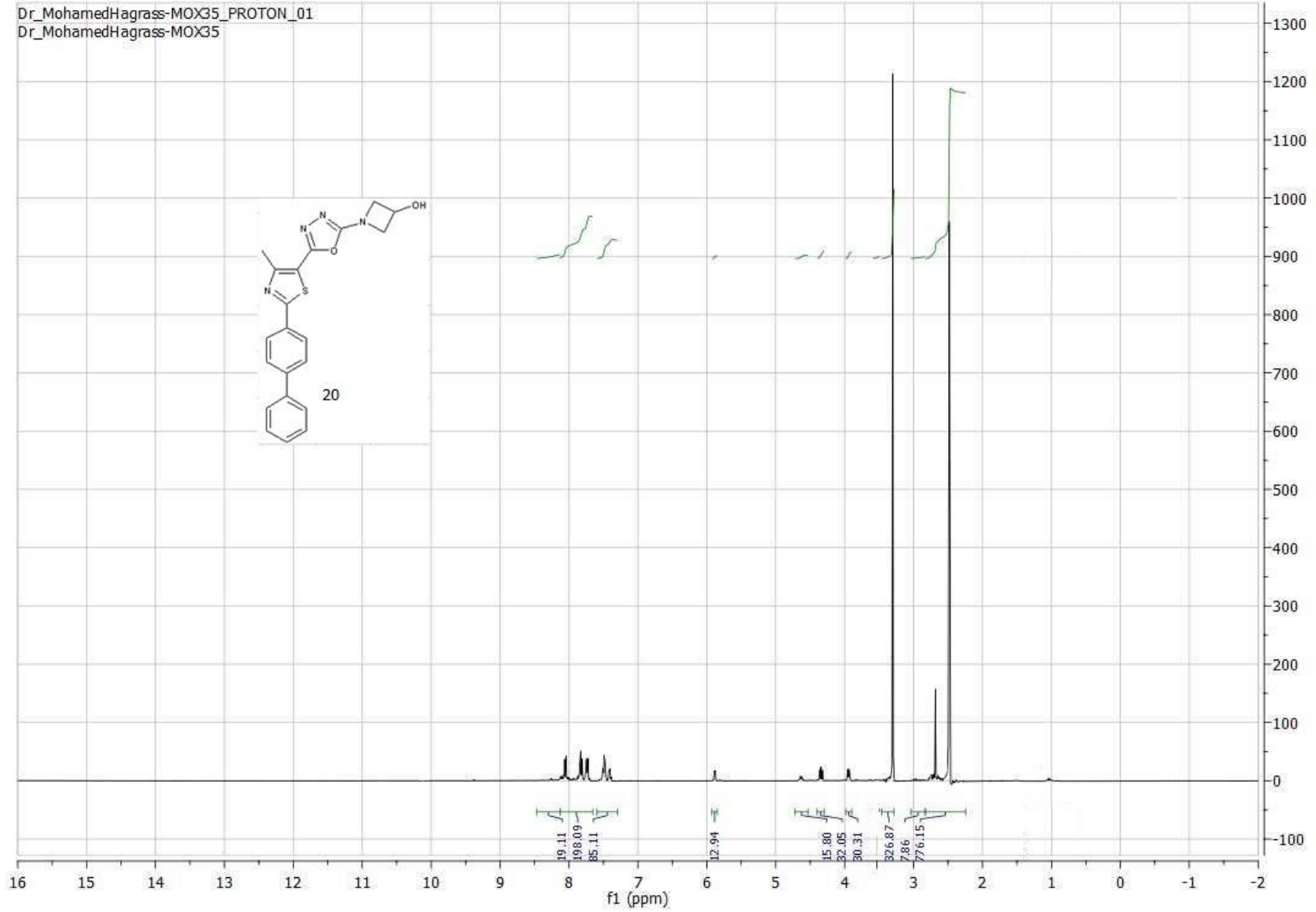
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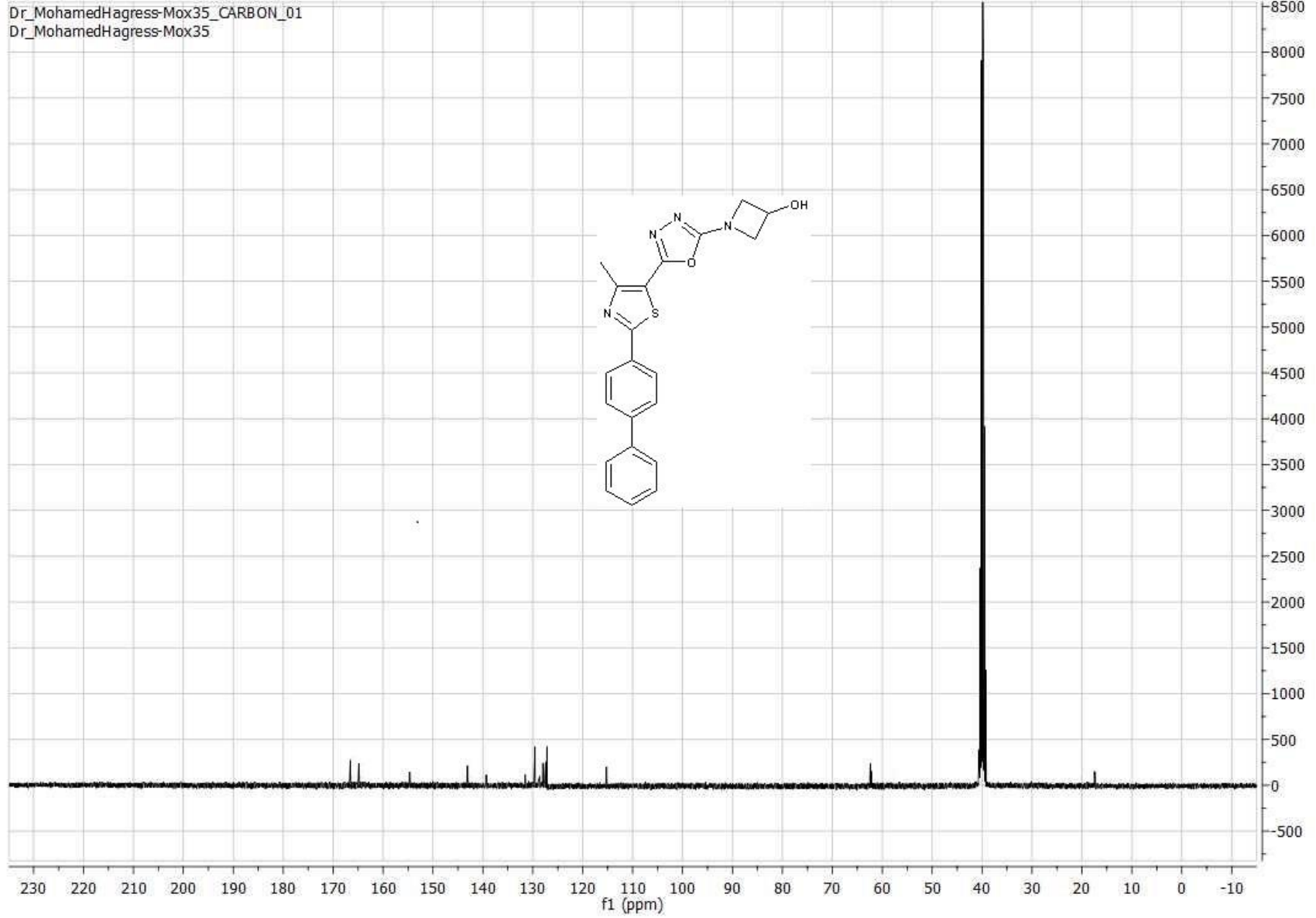
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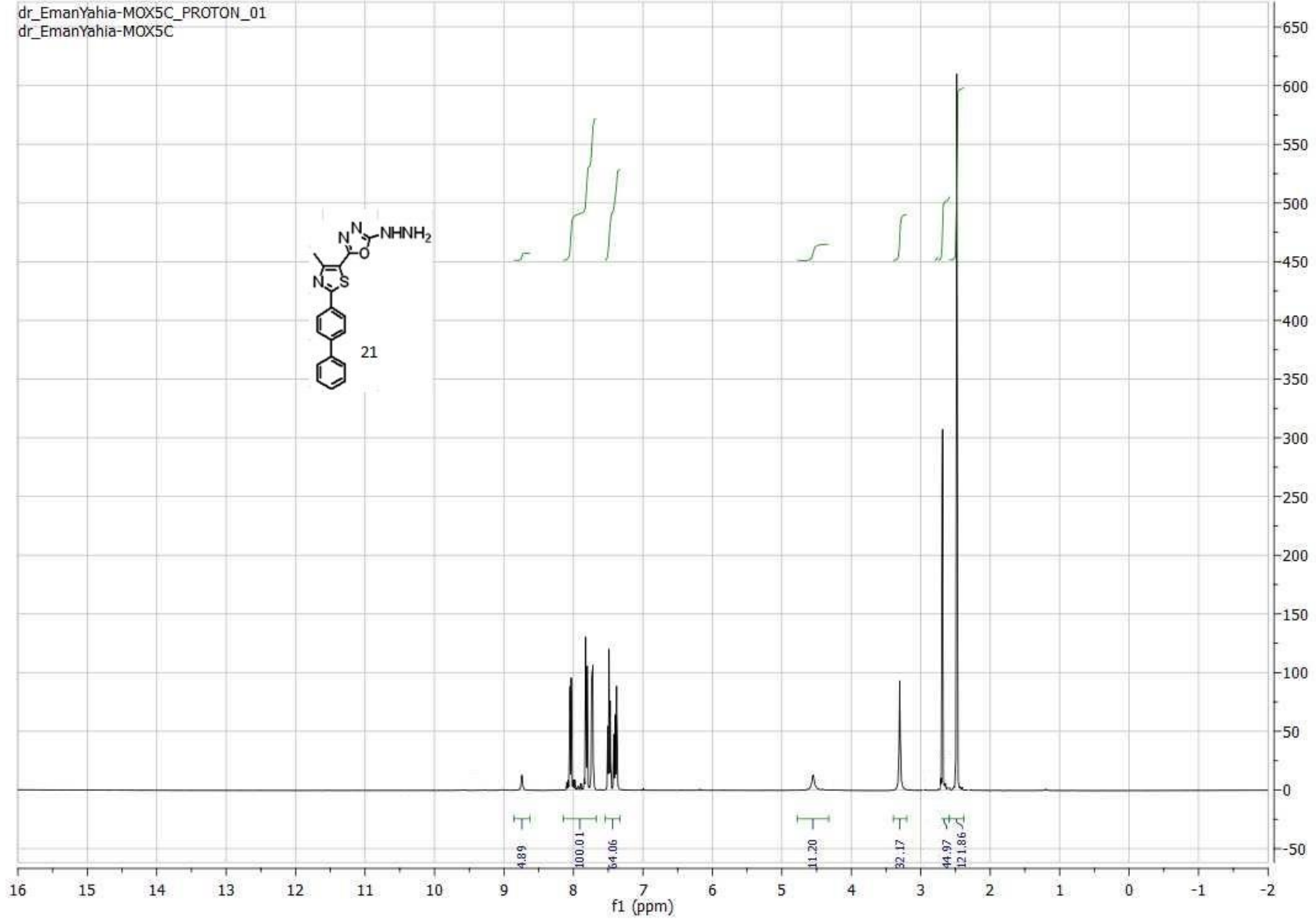
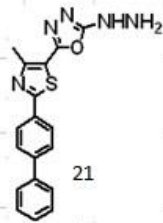
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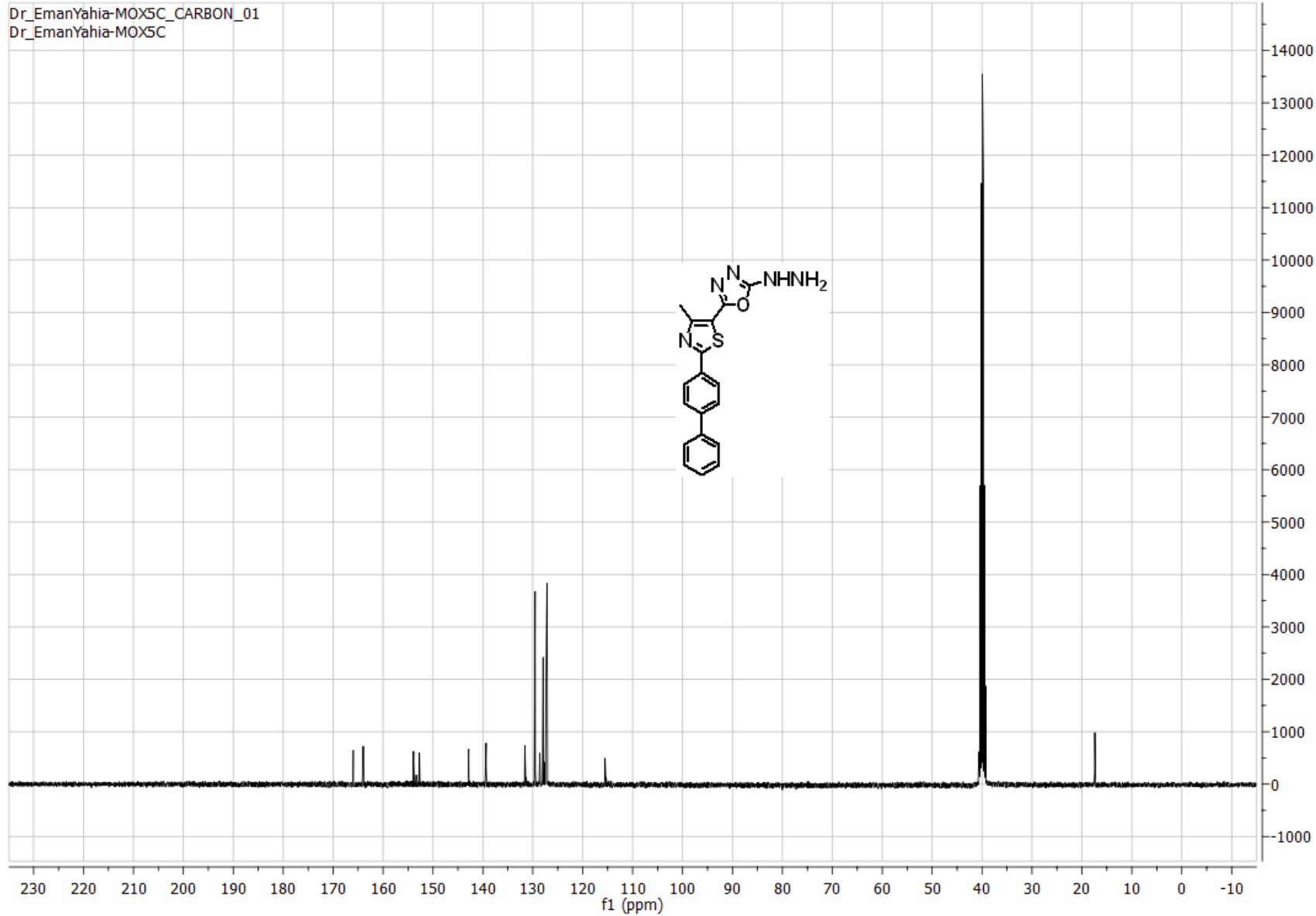
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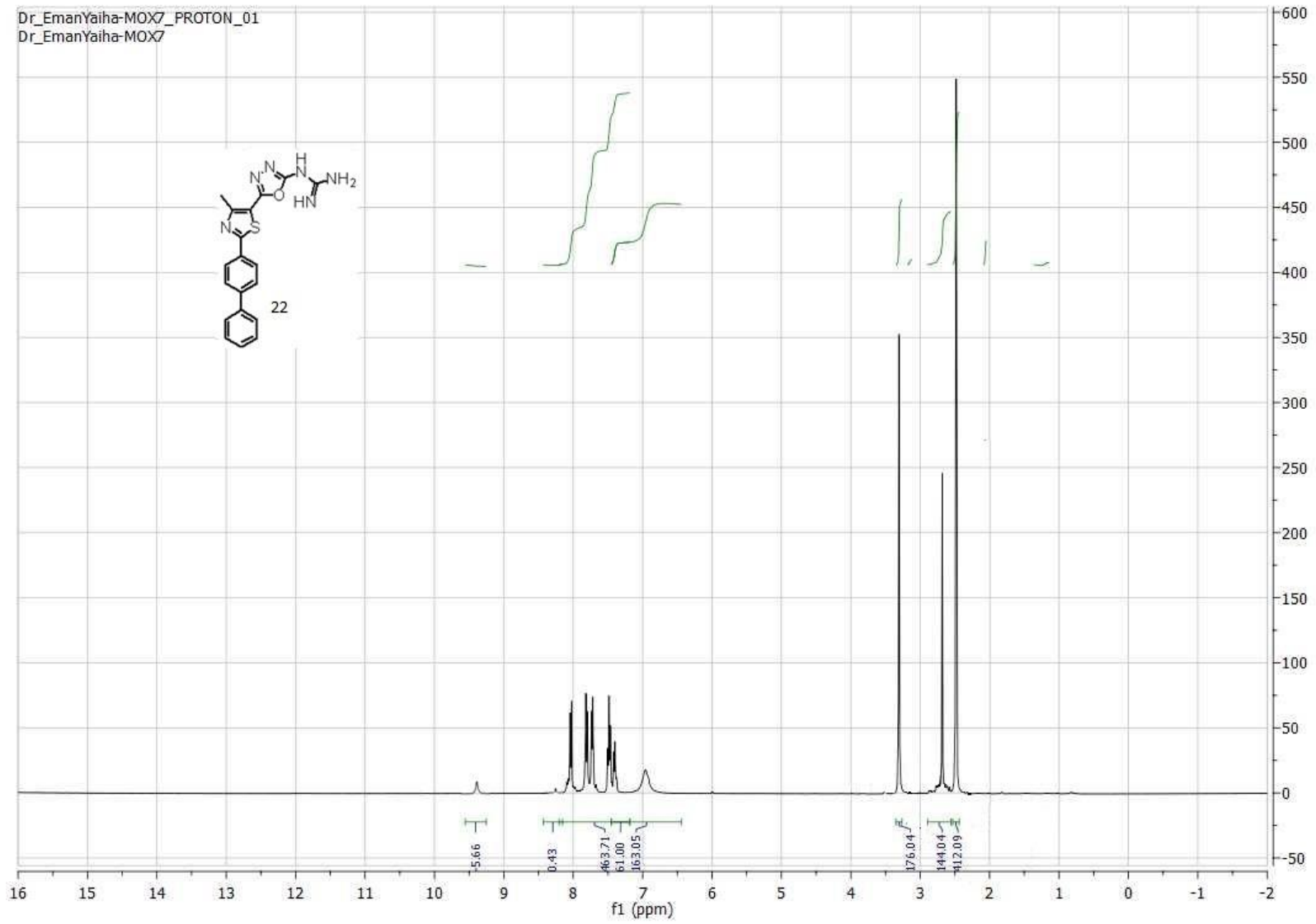
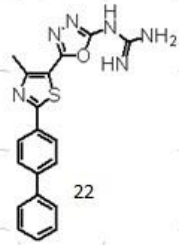
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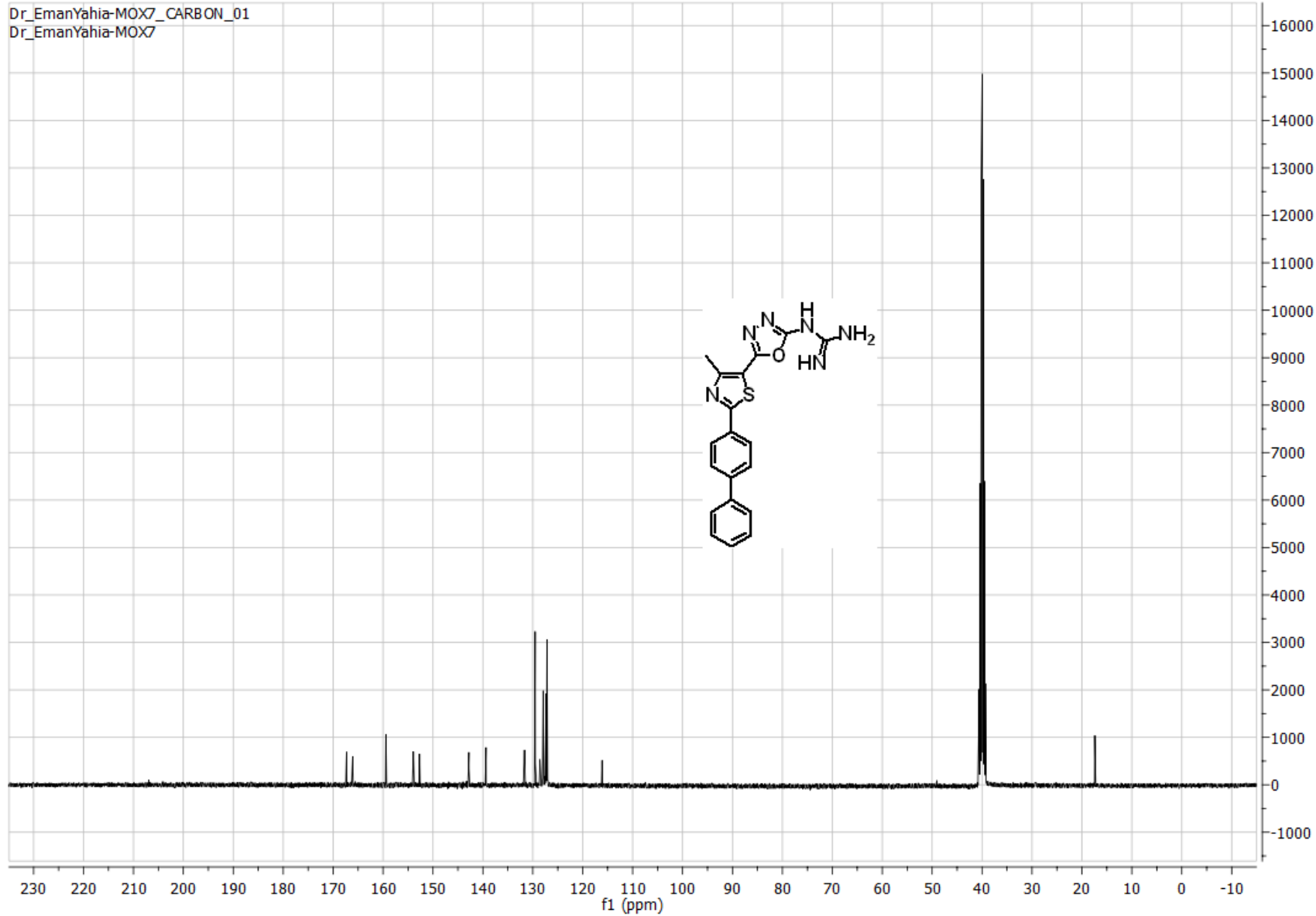
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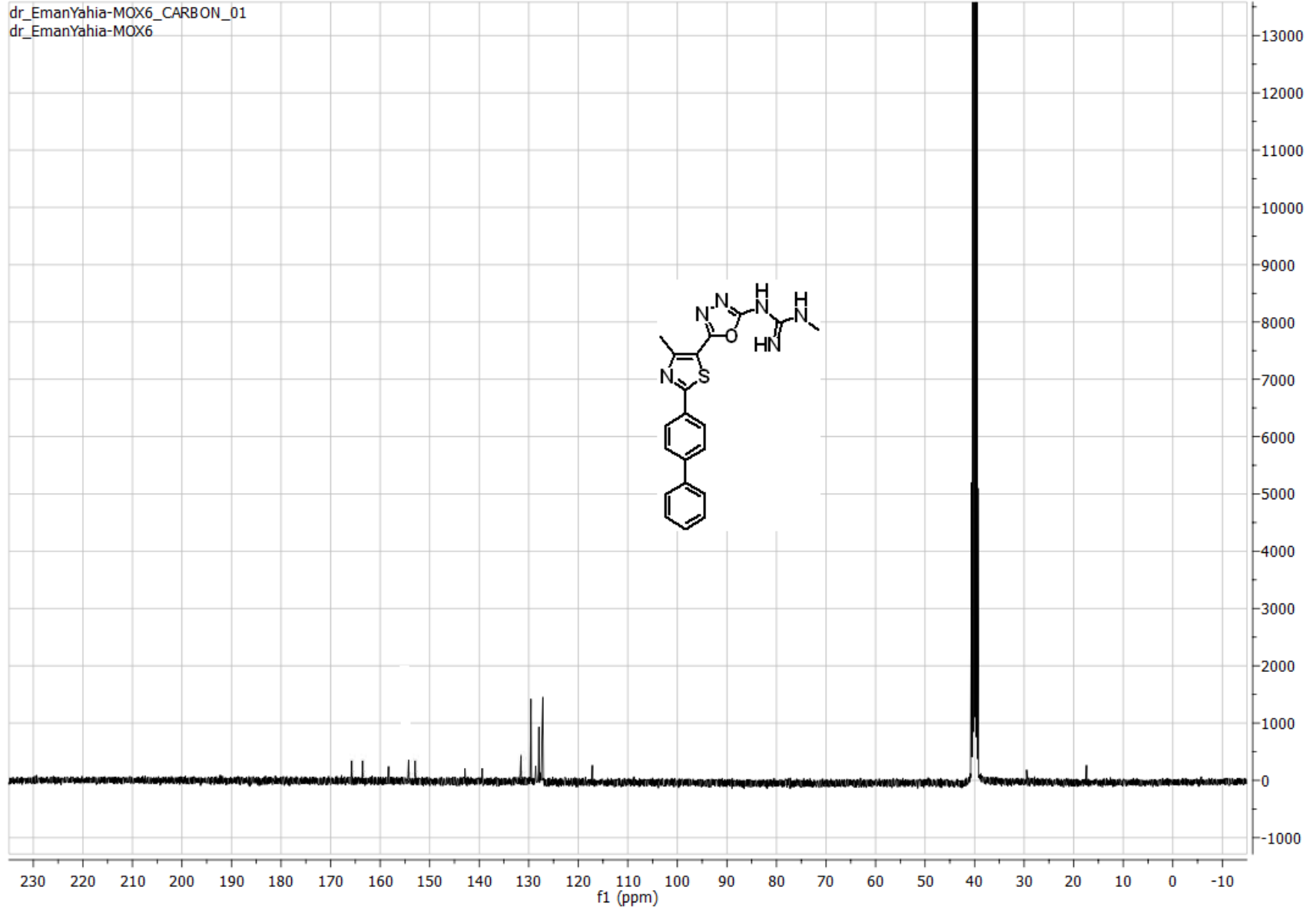
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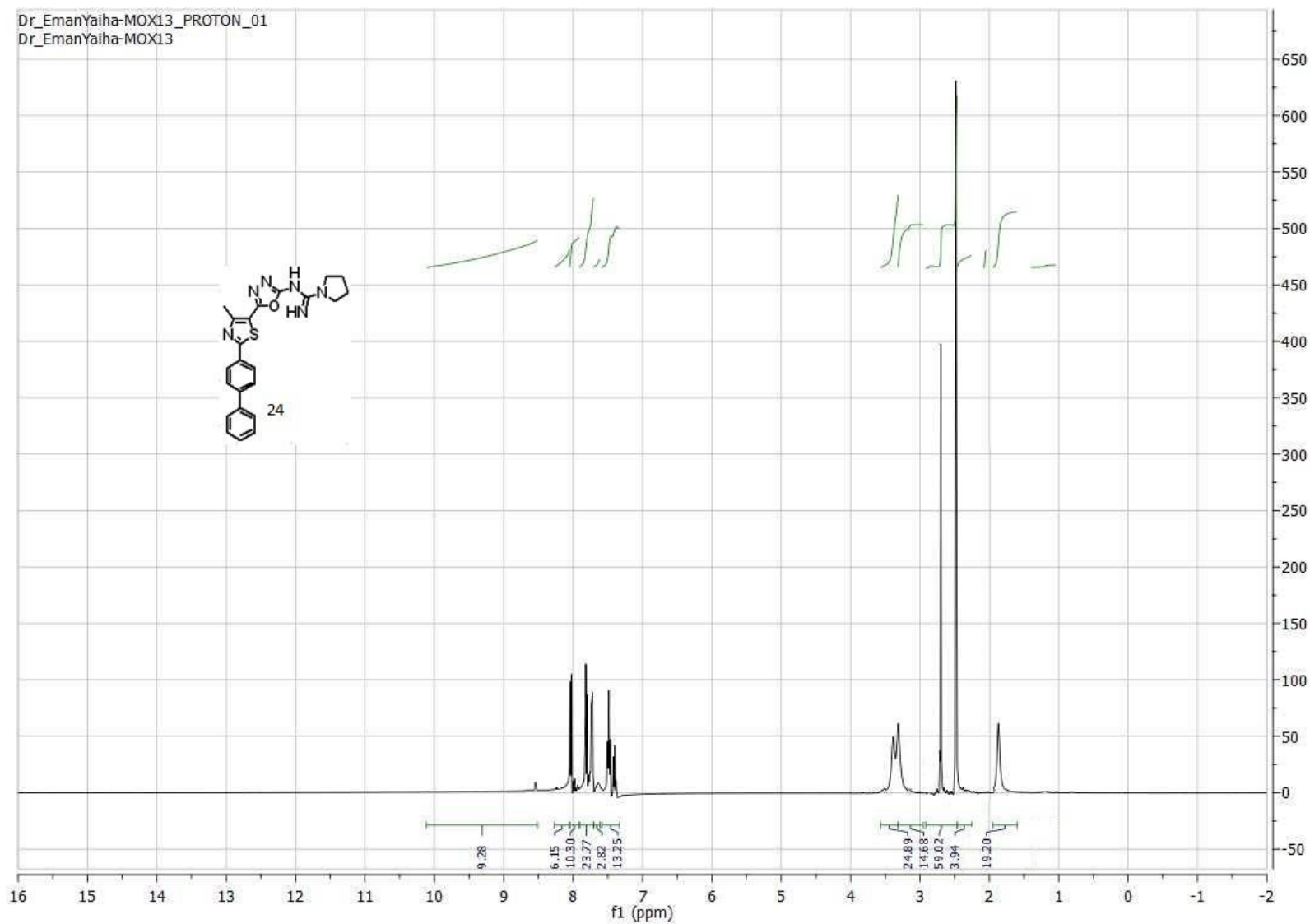
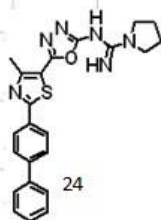
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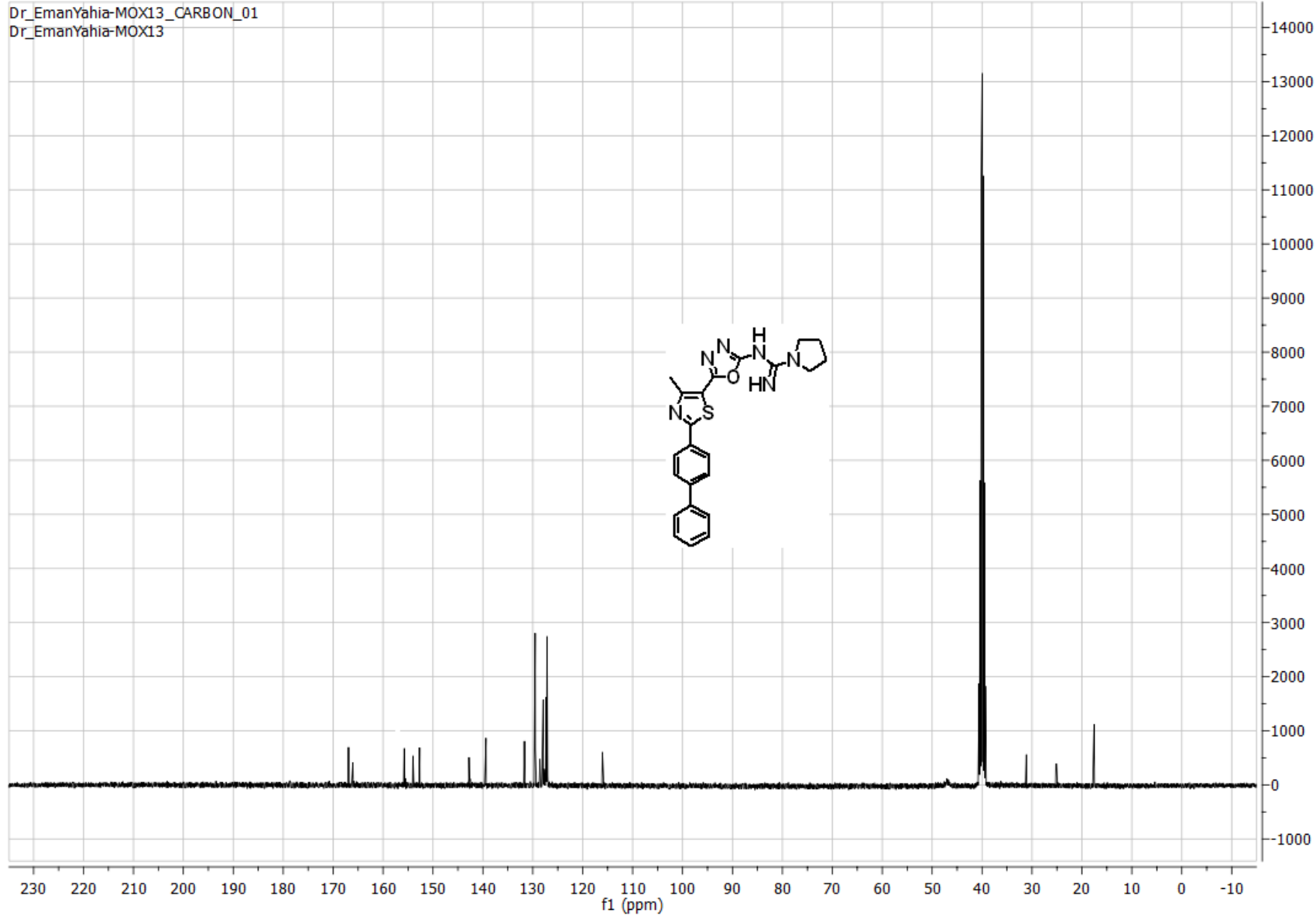
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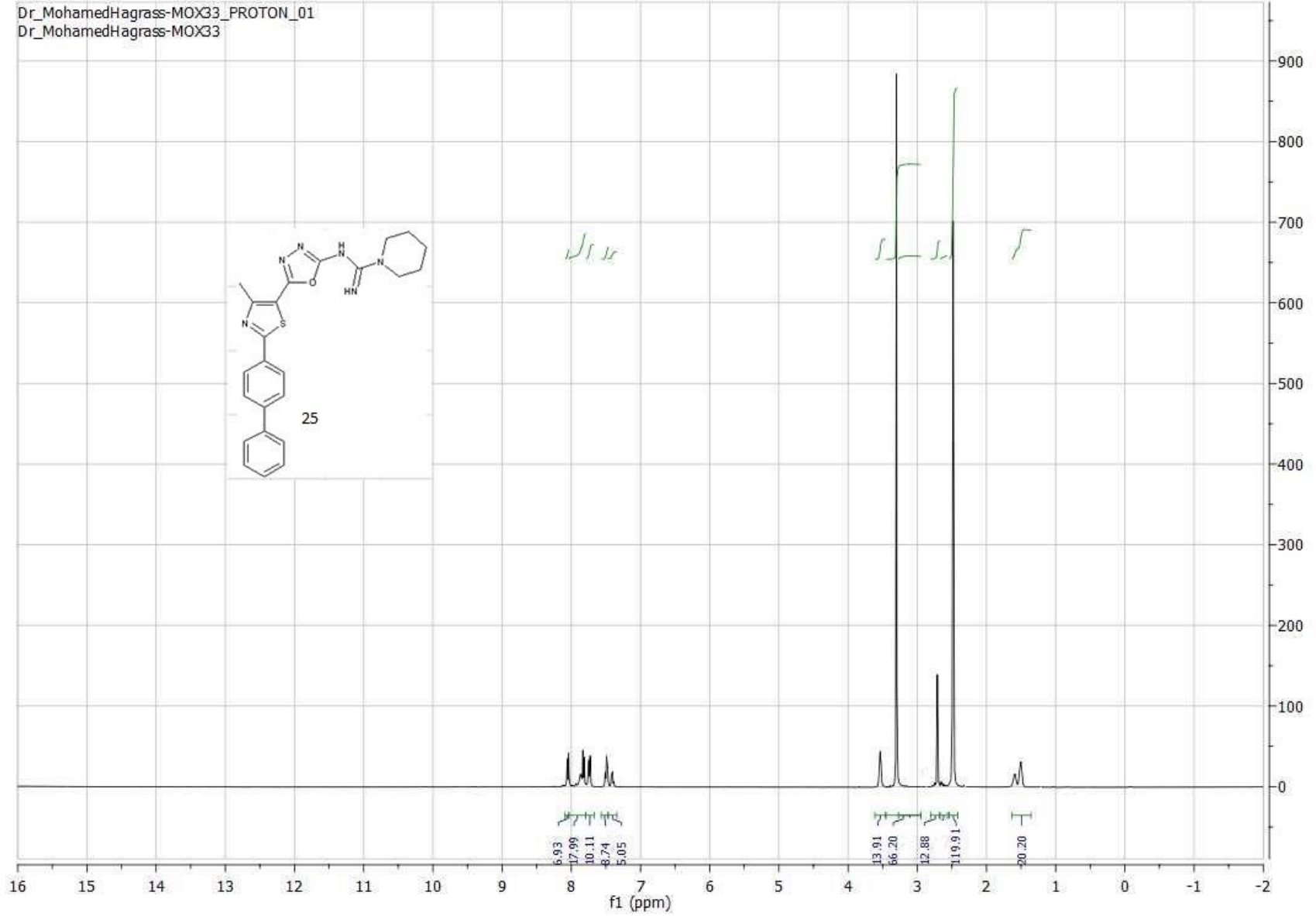
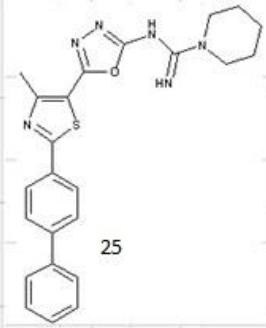
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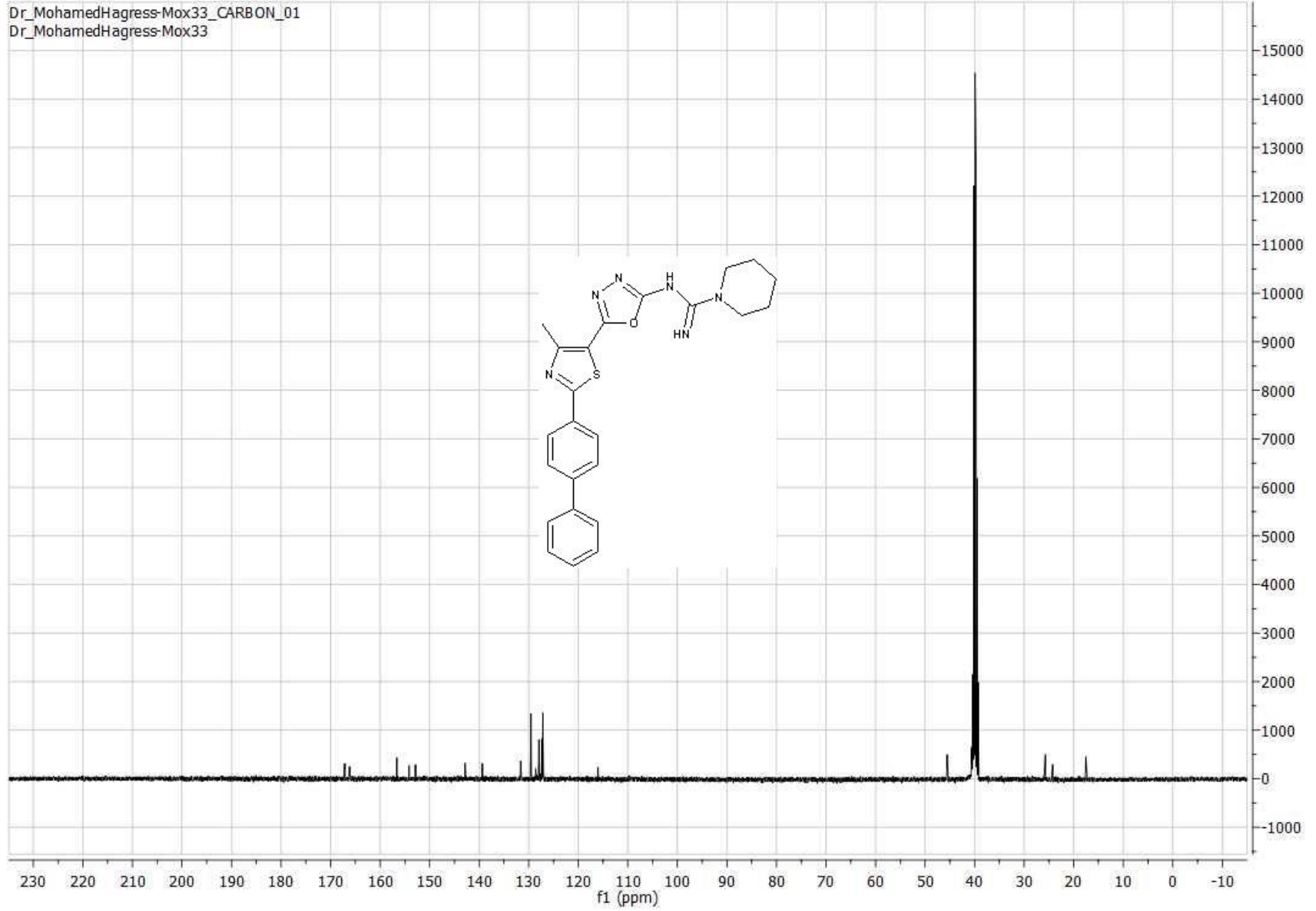
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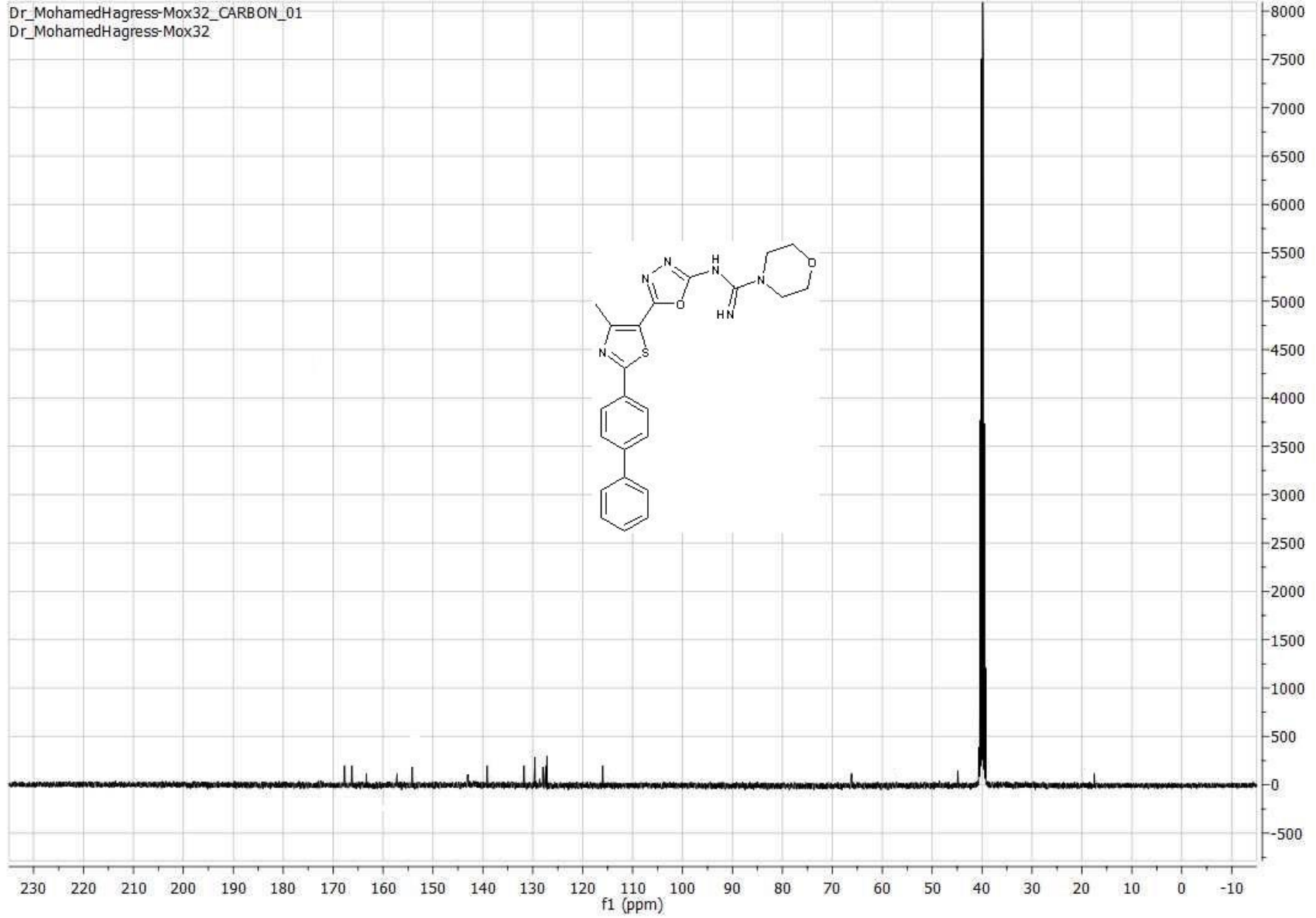
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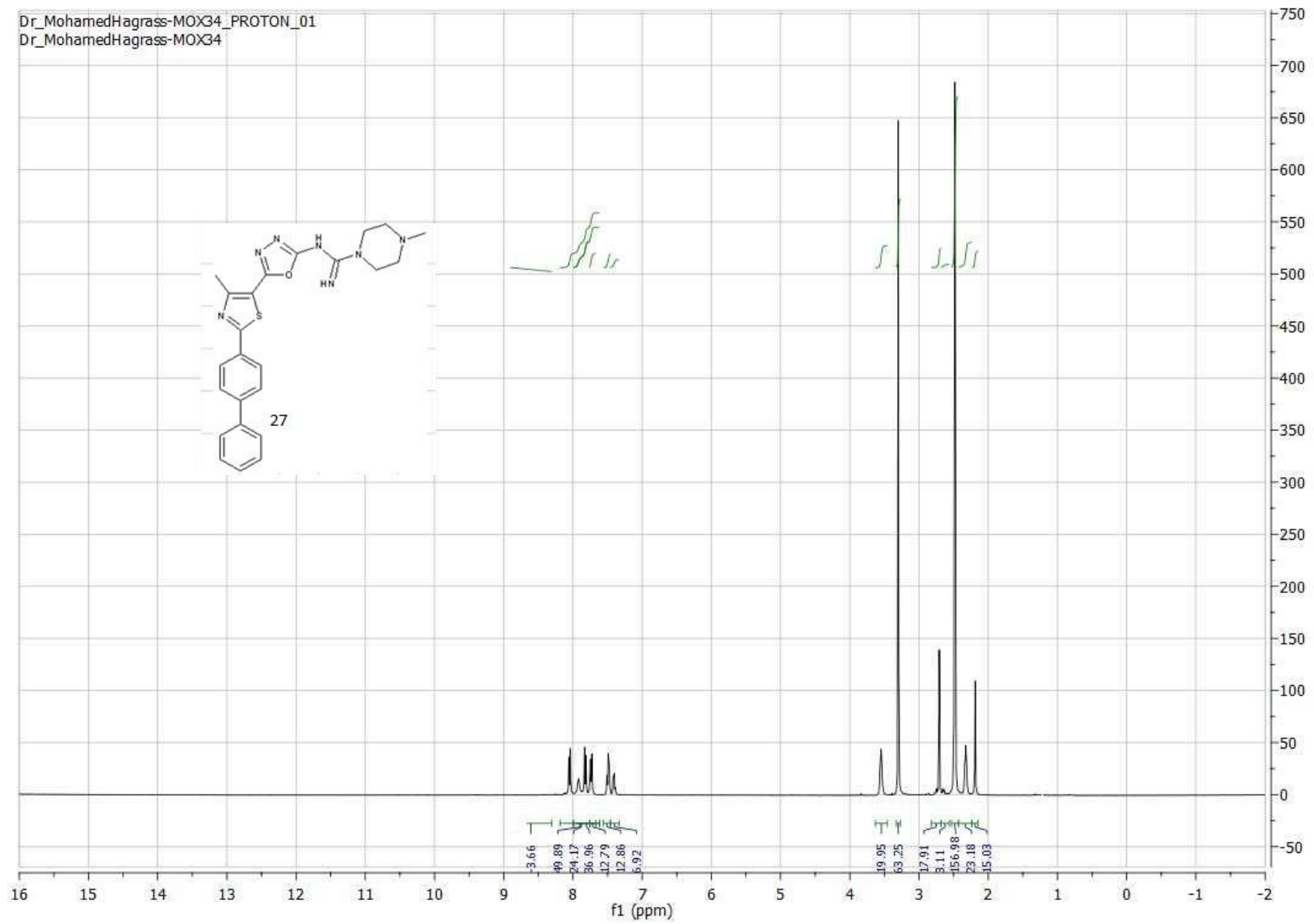
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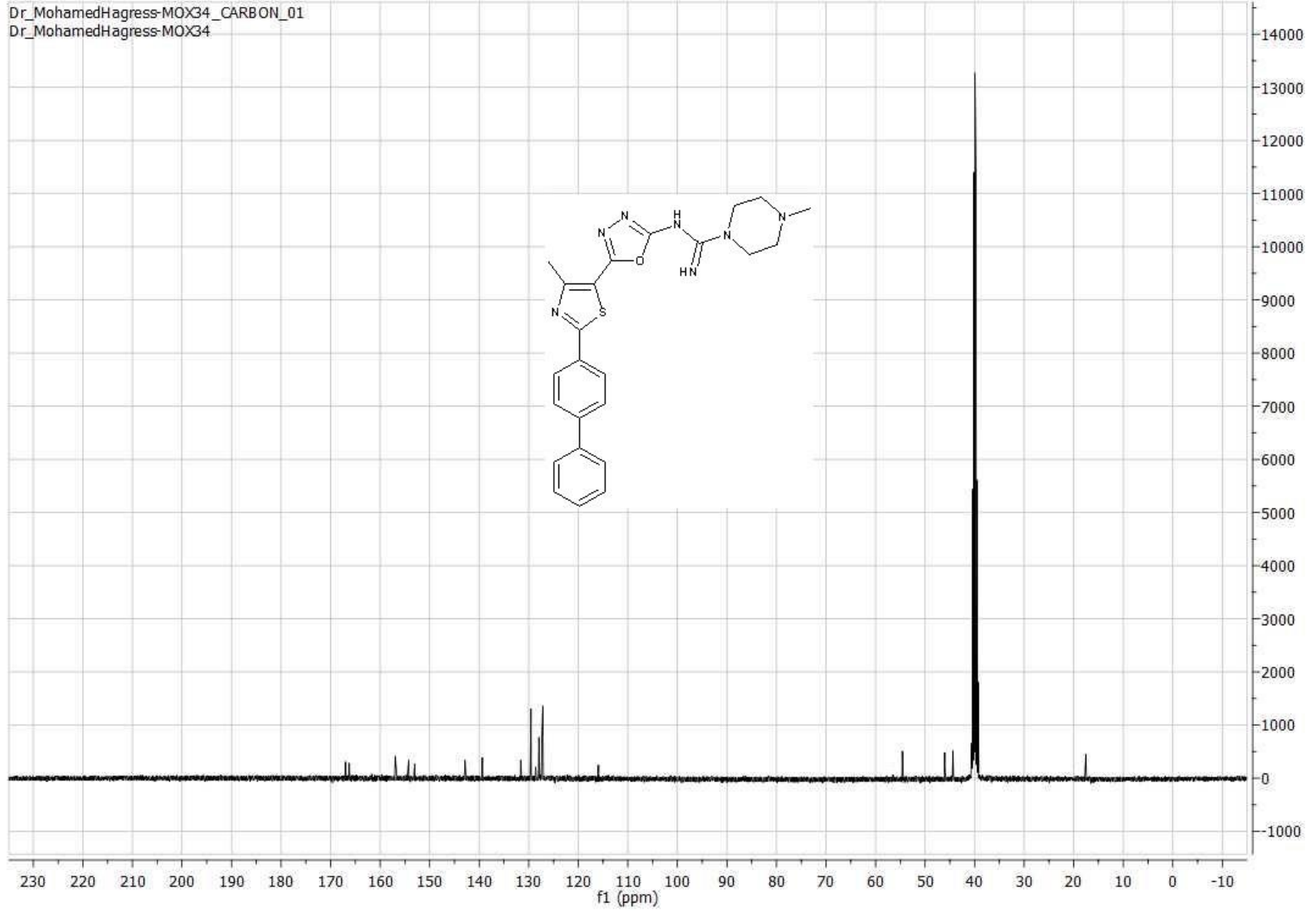
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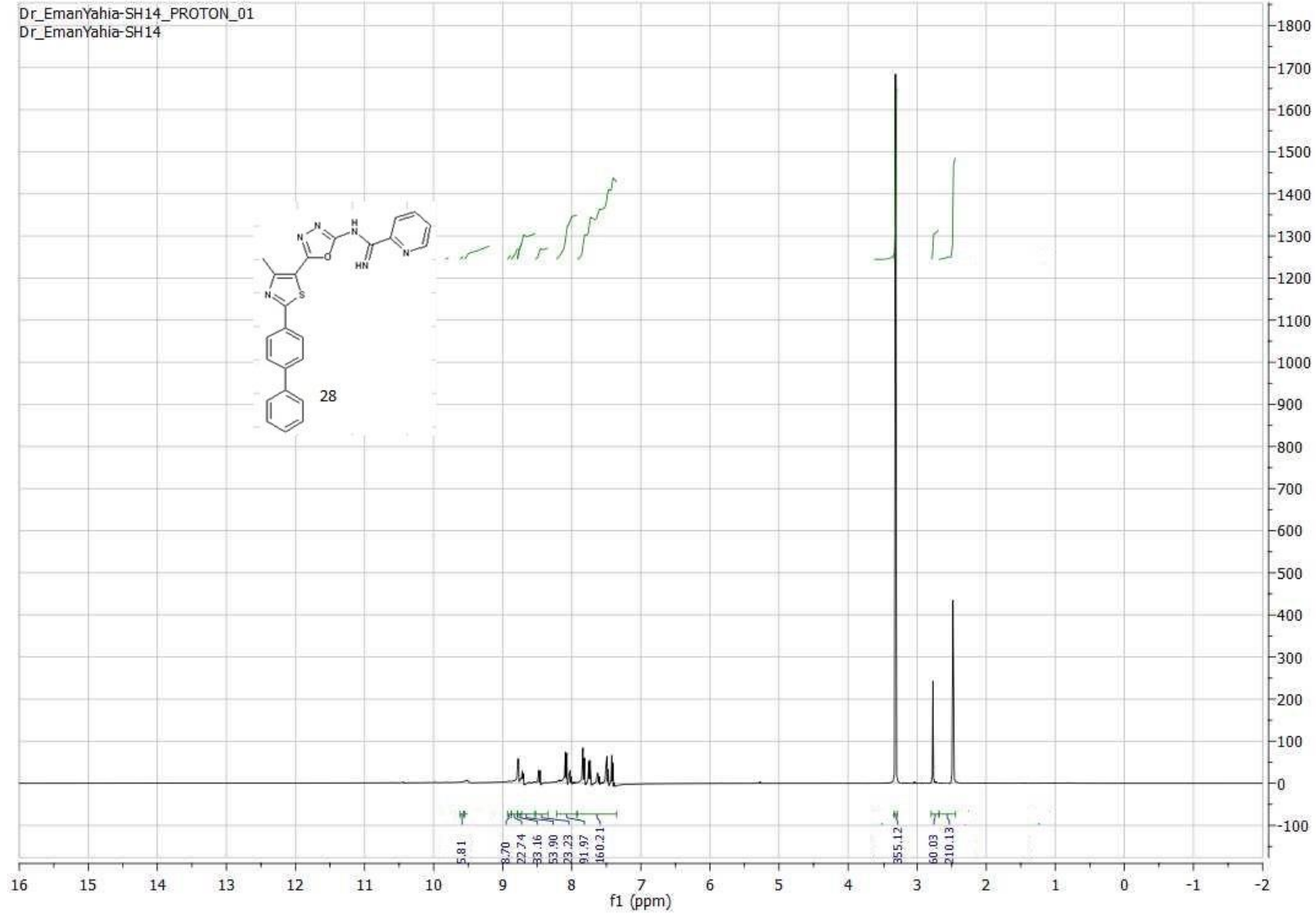
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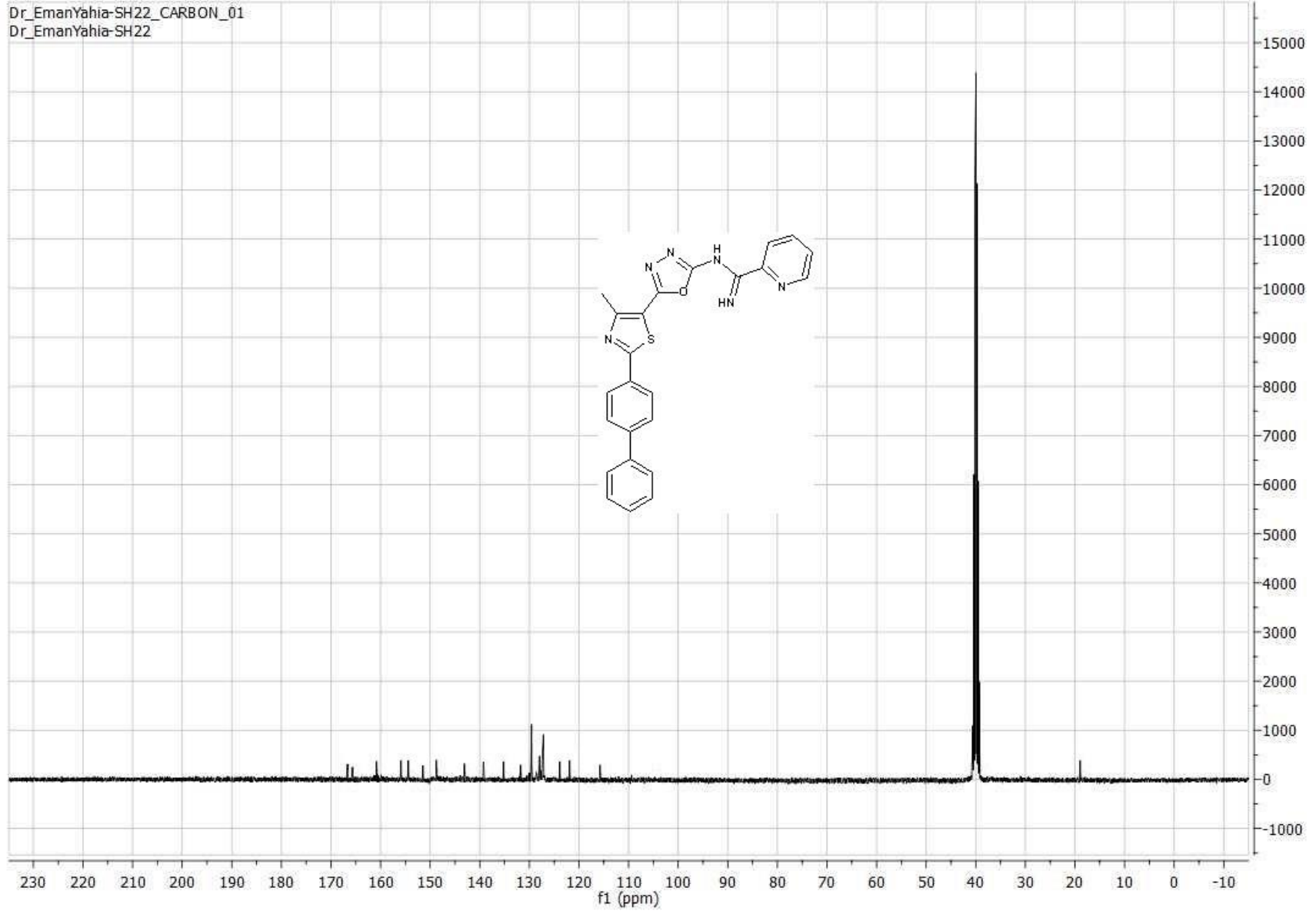
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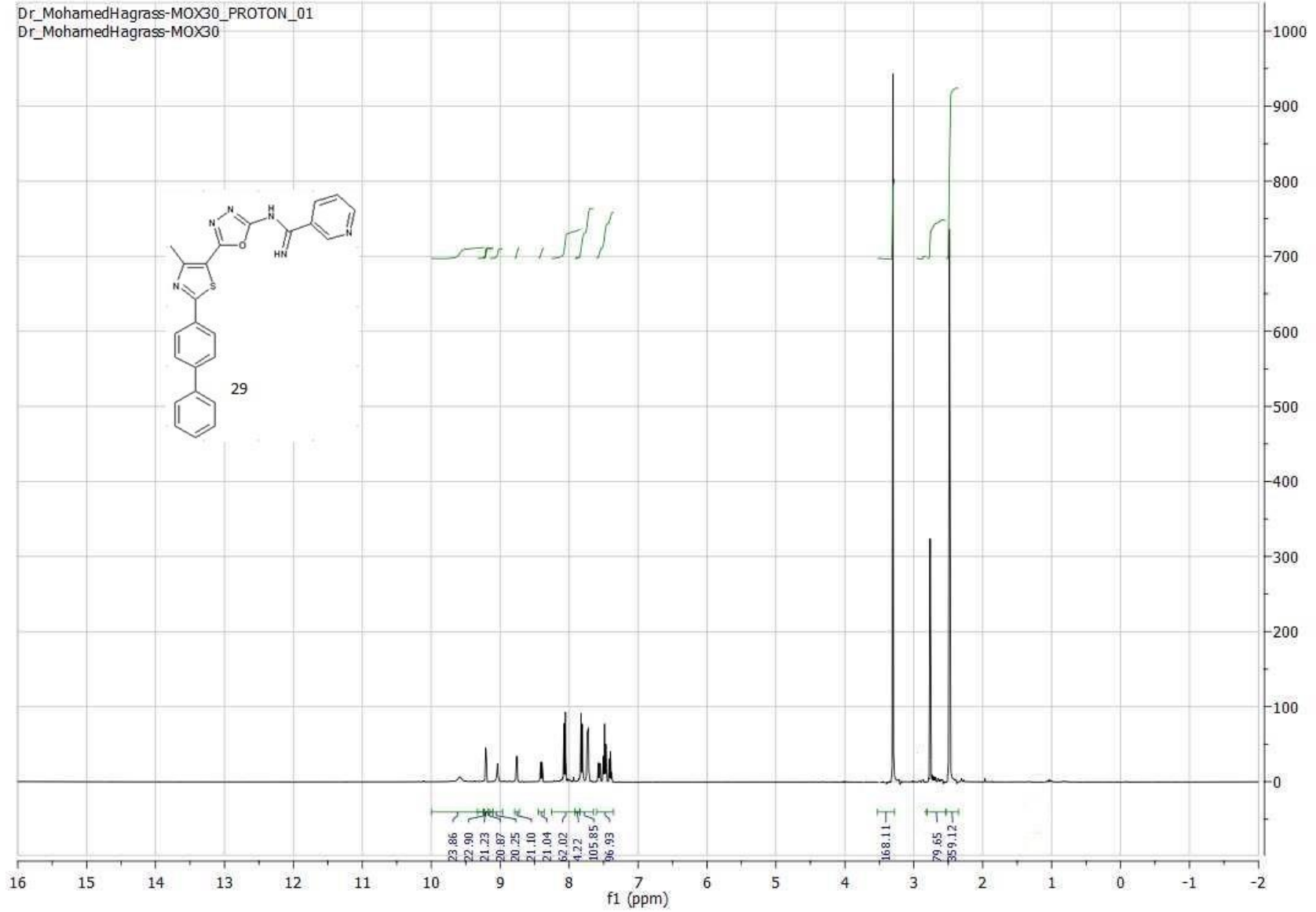
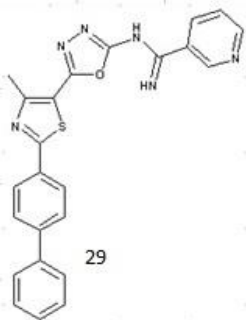
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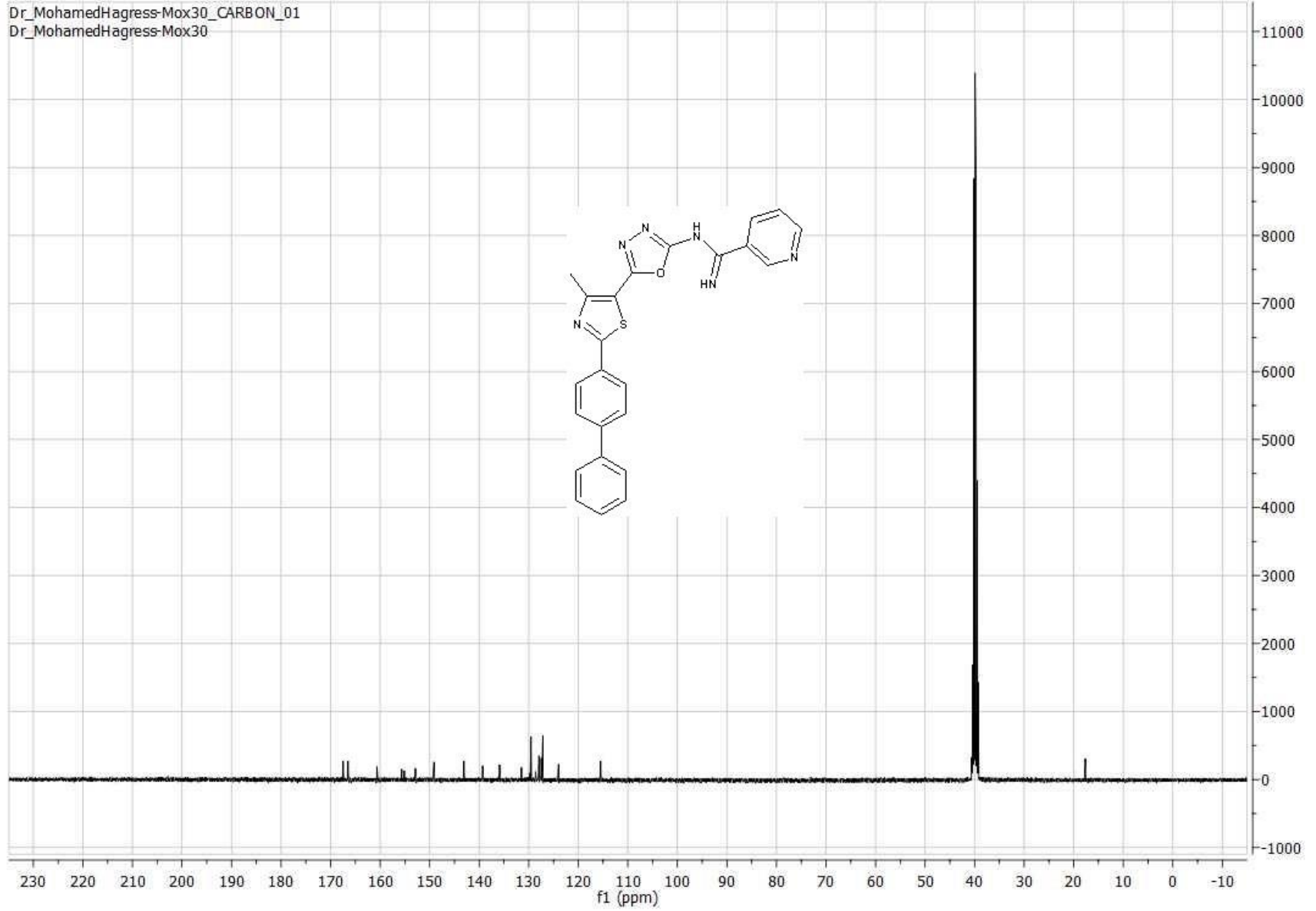
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Dr_EmanYahia-SH22



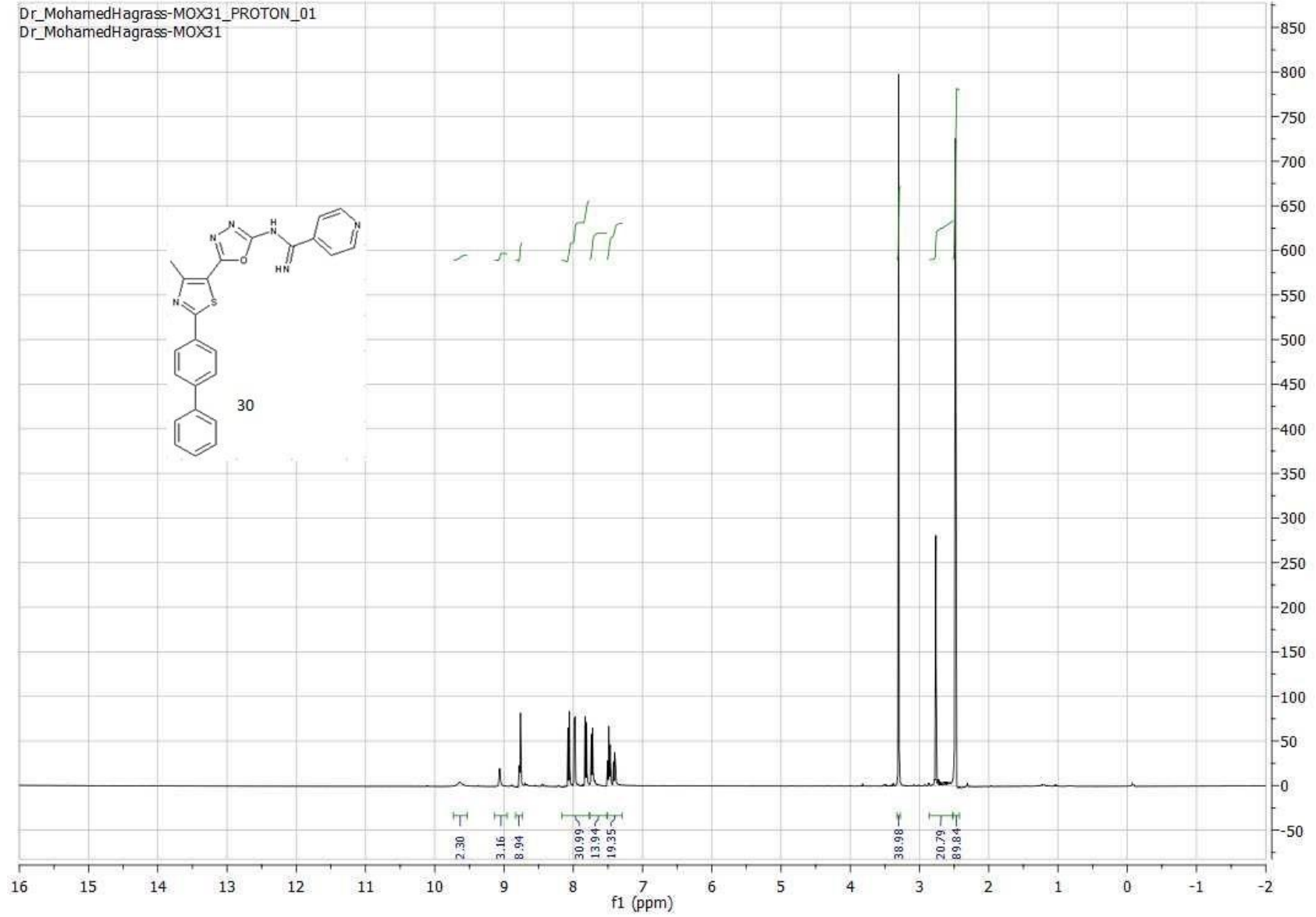
Dr_MohamedHagrass-MOX30_PROTON_01
Dr_MohamedHagrass-MOX30



Dr_MohamedHagress-Mox30_CARBON_01
Dr_MohamedHagress-Mox30



Dr_MohamedHagrass-MOX31_PROTON_01
Dr_MohamedHagrass-MOX31



Dr_MohamedHagress-Mox31_CARBON_01
Dr_MohamedHagress-Mox31

