

Supplementary Information

Syntheses of a library of molecules on marine natural product ianthelliformisamines platform and their biological evaluations

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*faiz@iith.ac.in;

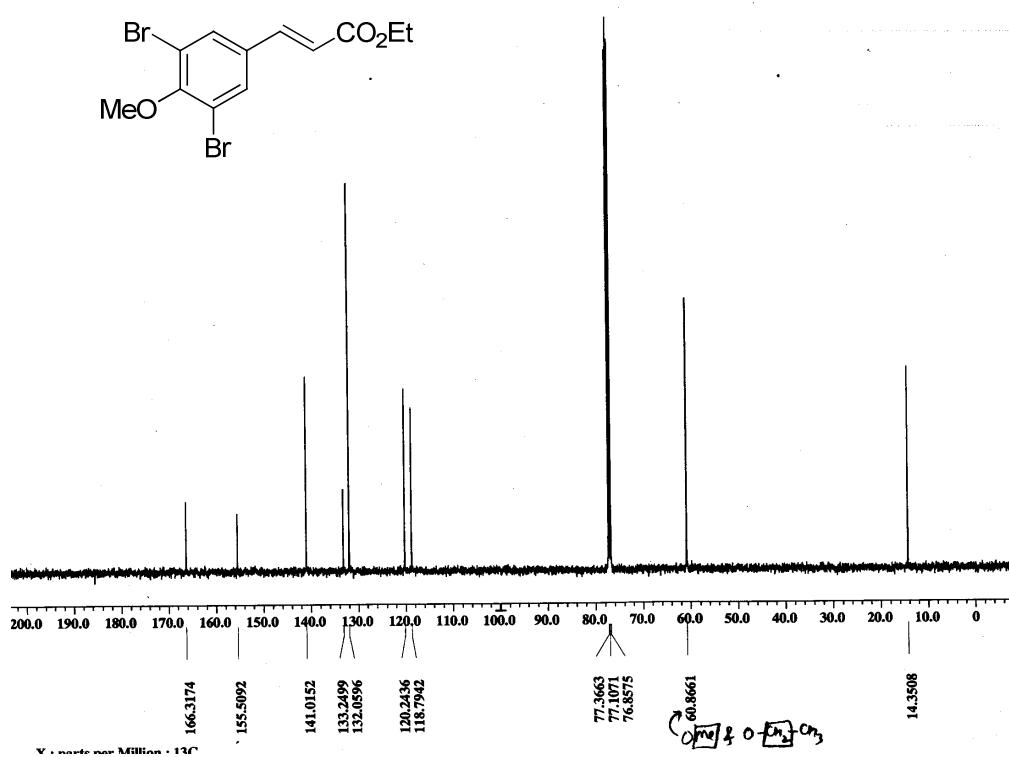
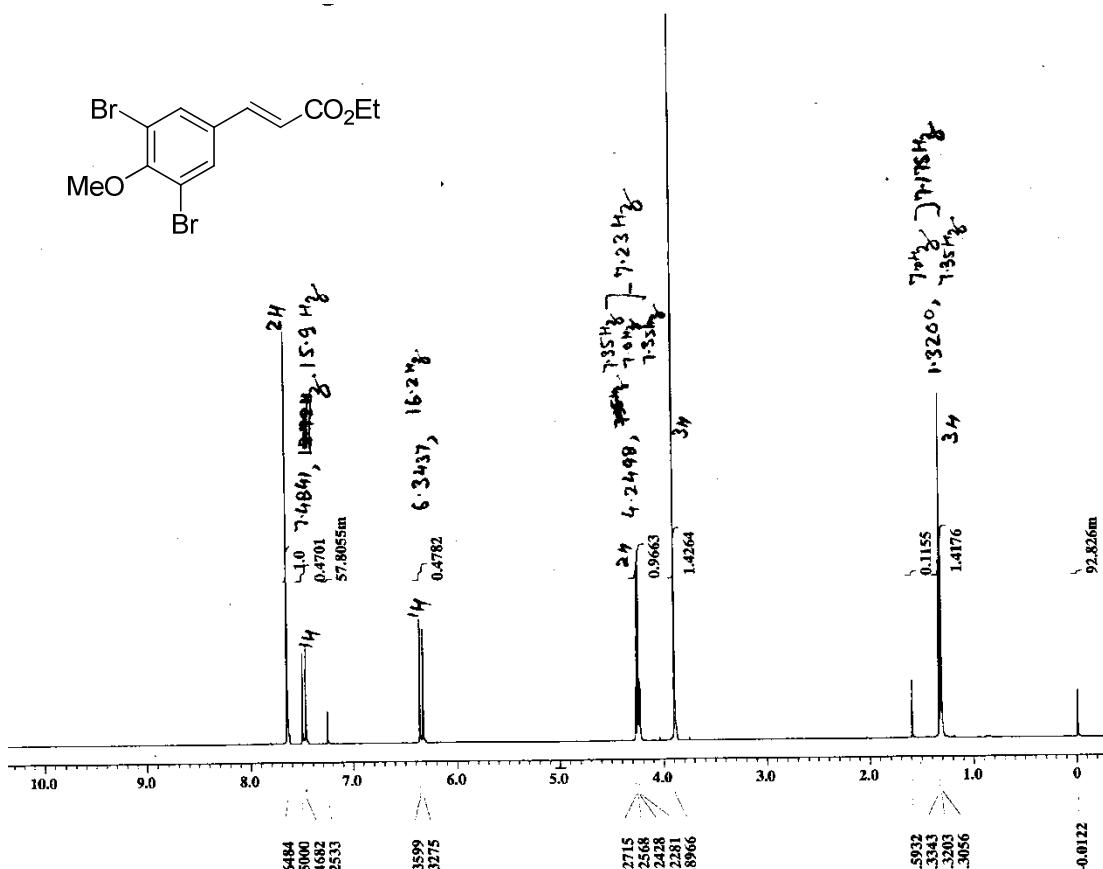
*anindya@iith.ac.in

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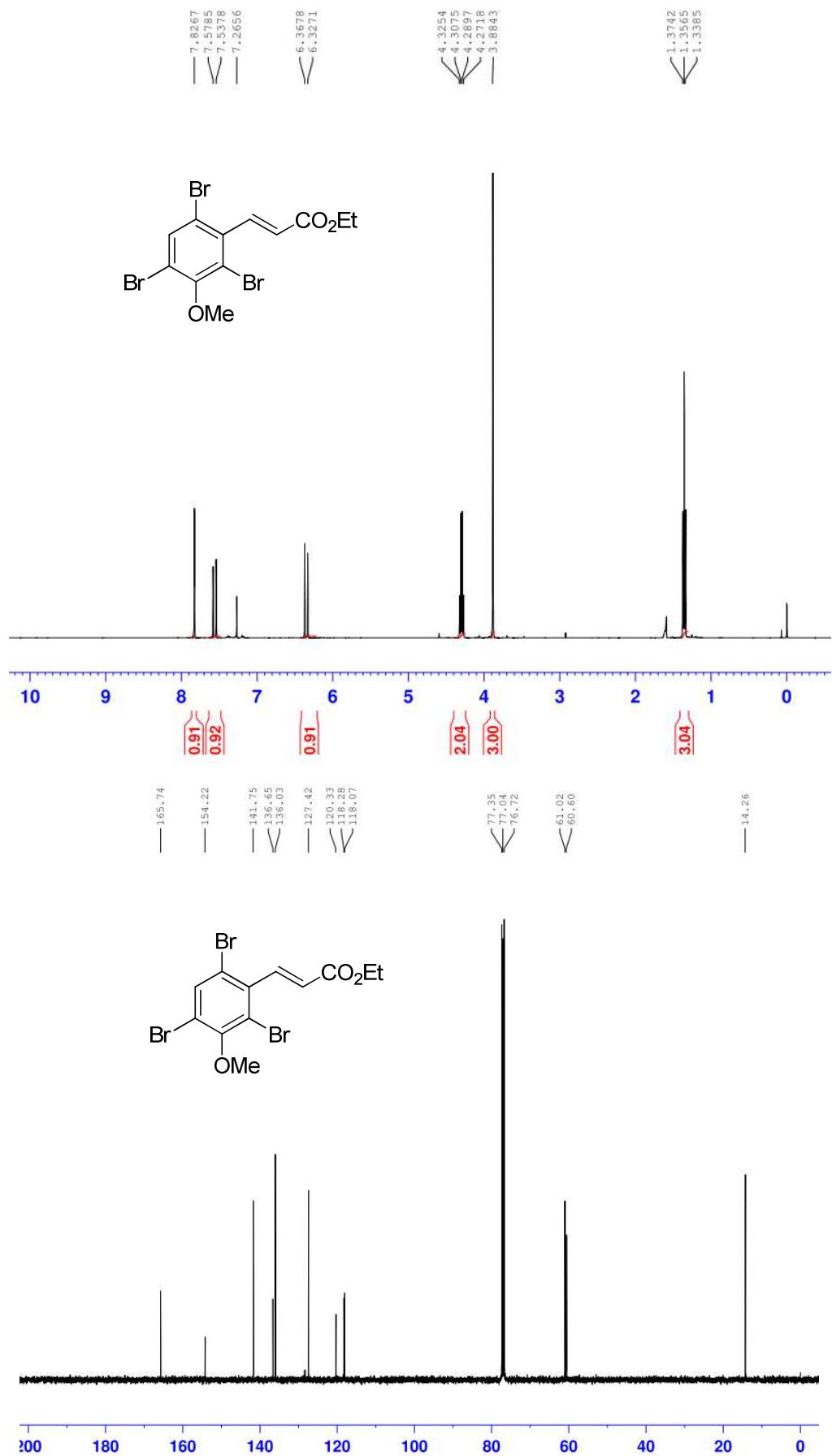
S2-S57 Copies of ¹H and ¹³C NMR spectra

S58 Antibacterial property of ianthelliformisamines analogues

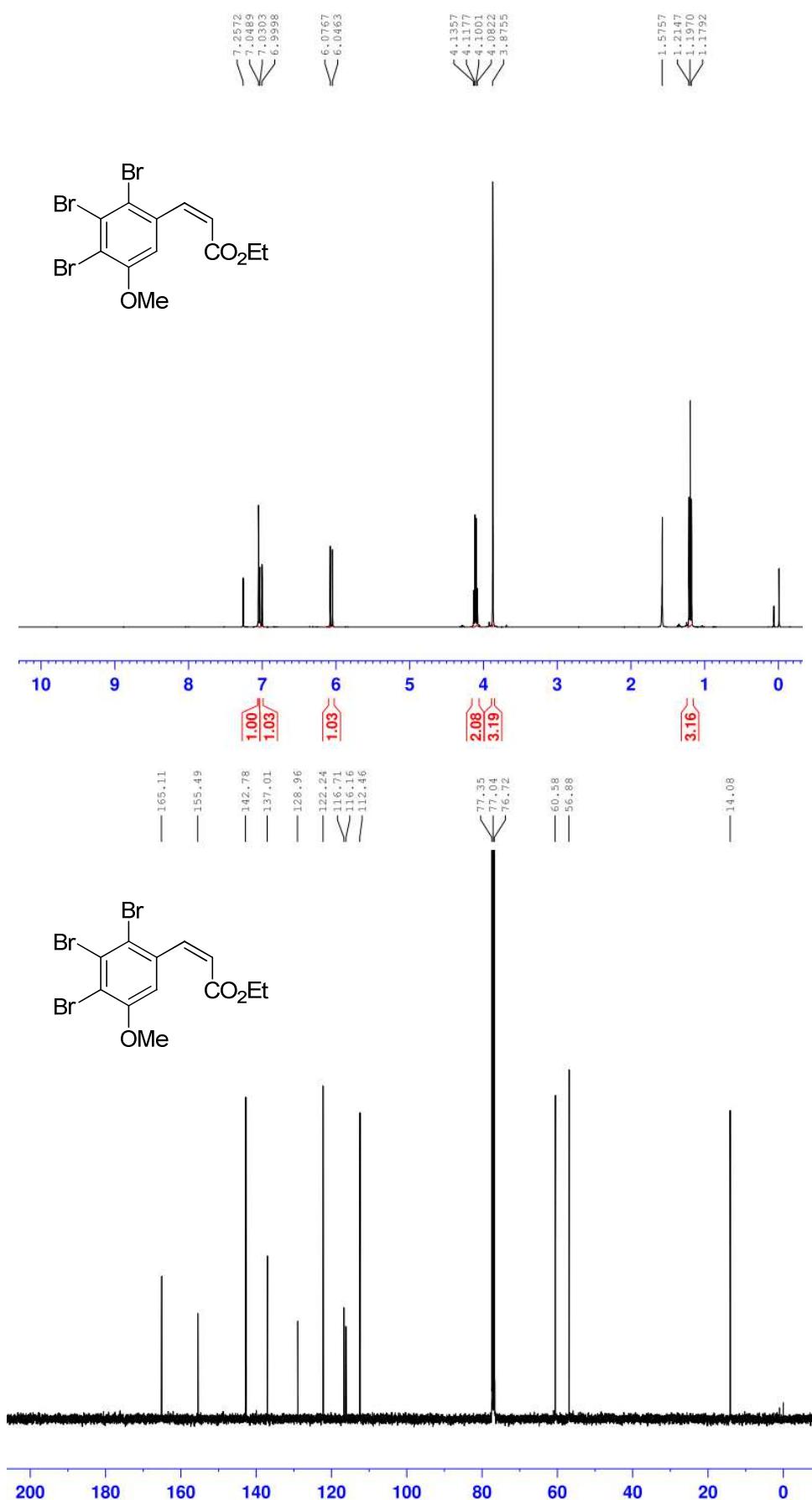
¹H NMR (500 MHz) and ¹³C NMR (125 MHz) of 10a in CDCl₃



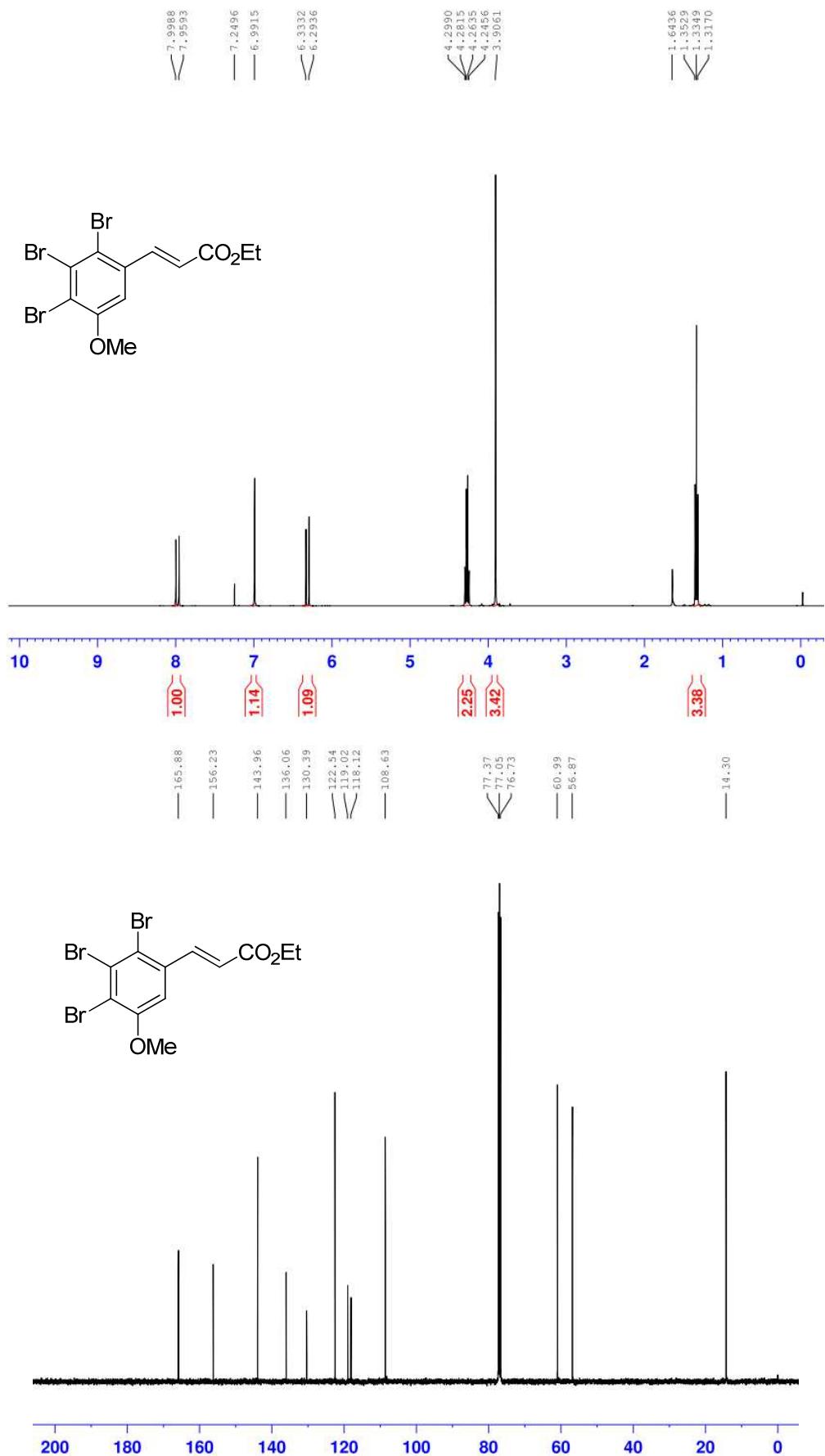
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 10b in CDCl_3



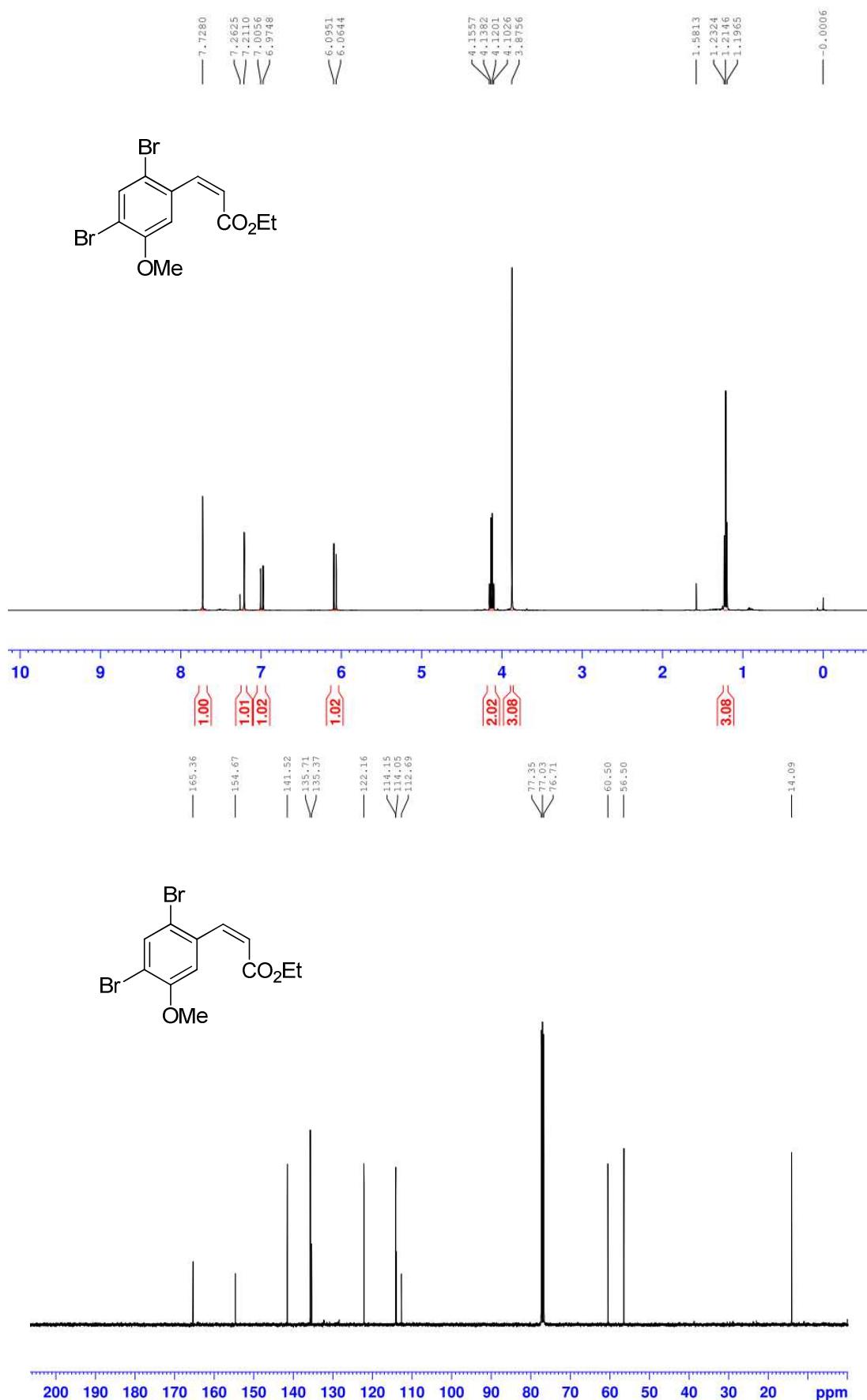
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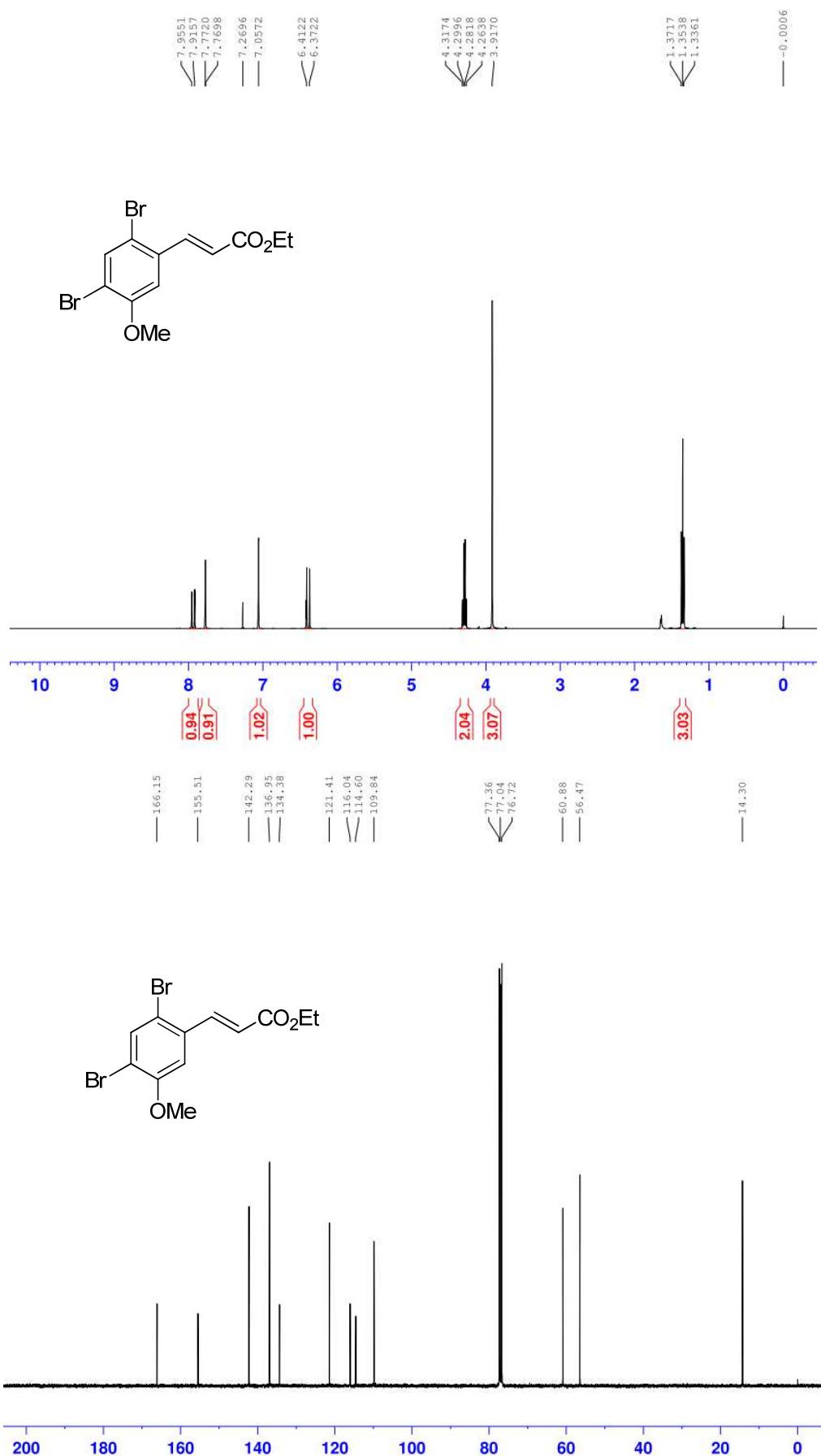
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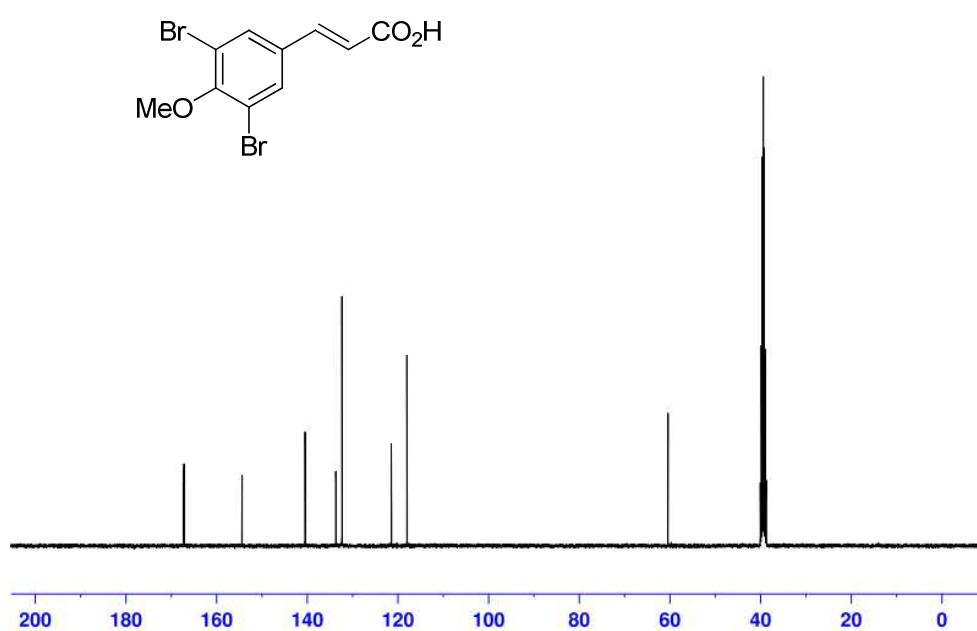
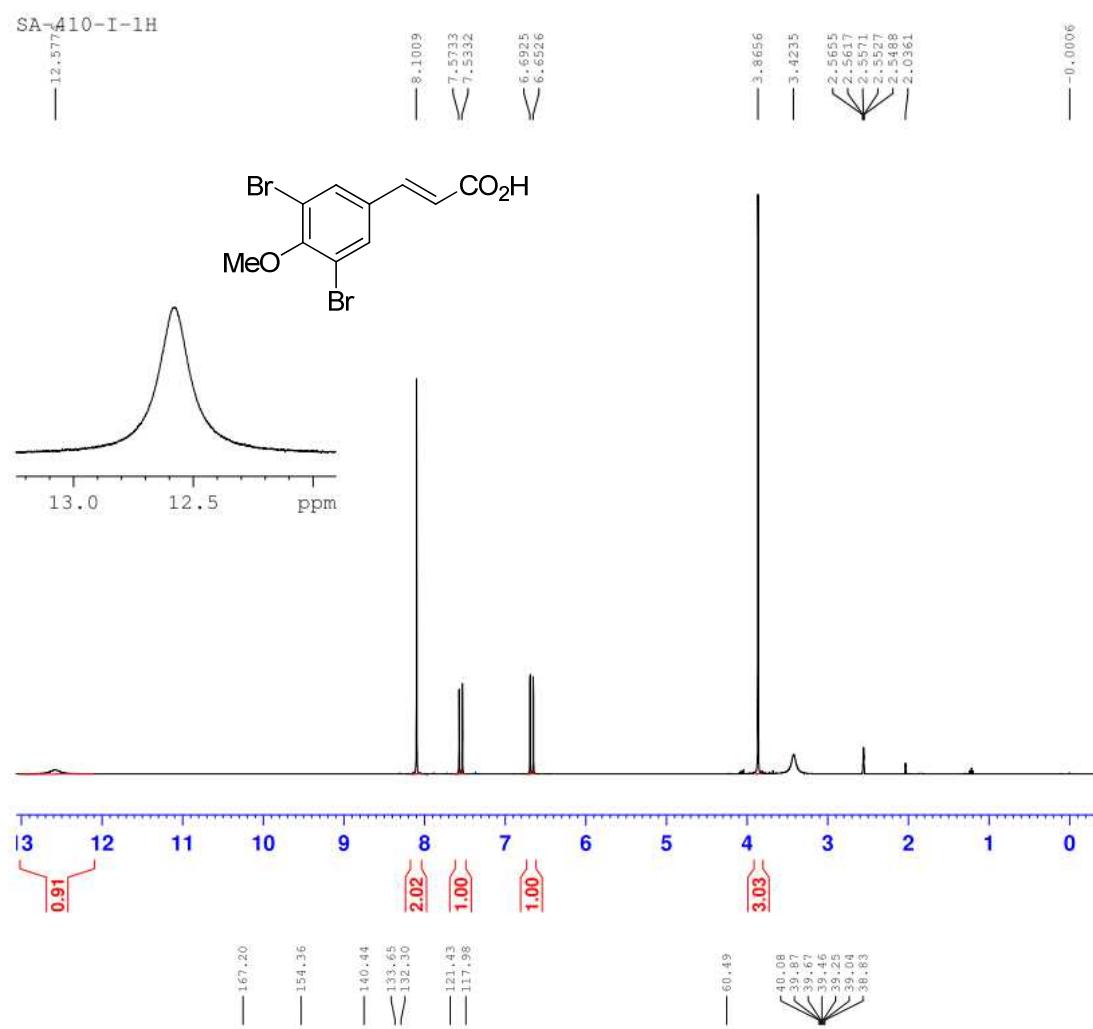
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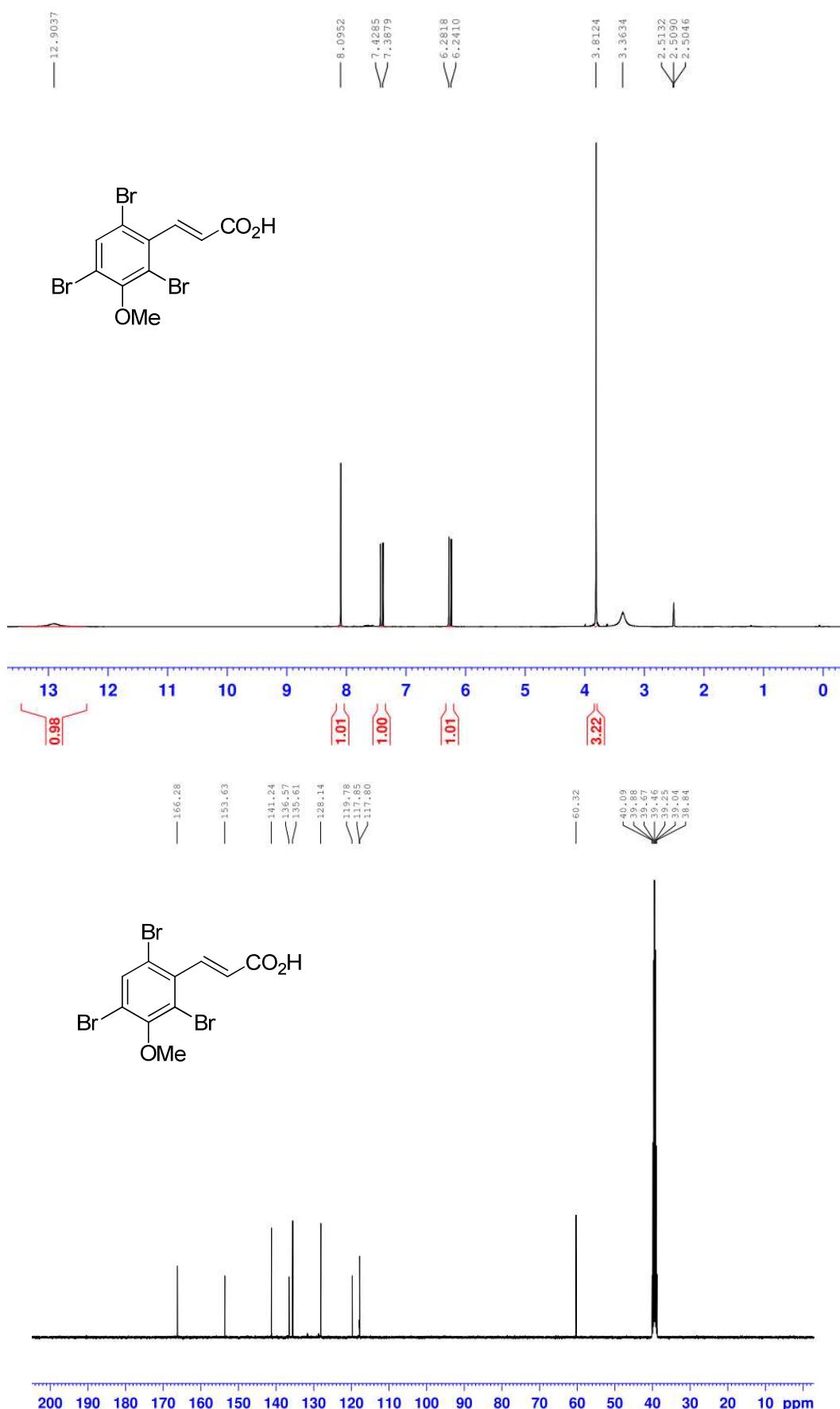
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 10f in CDCl_3



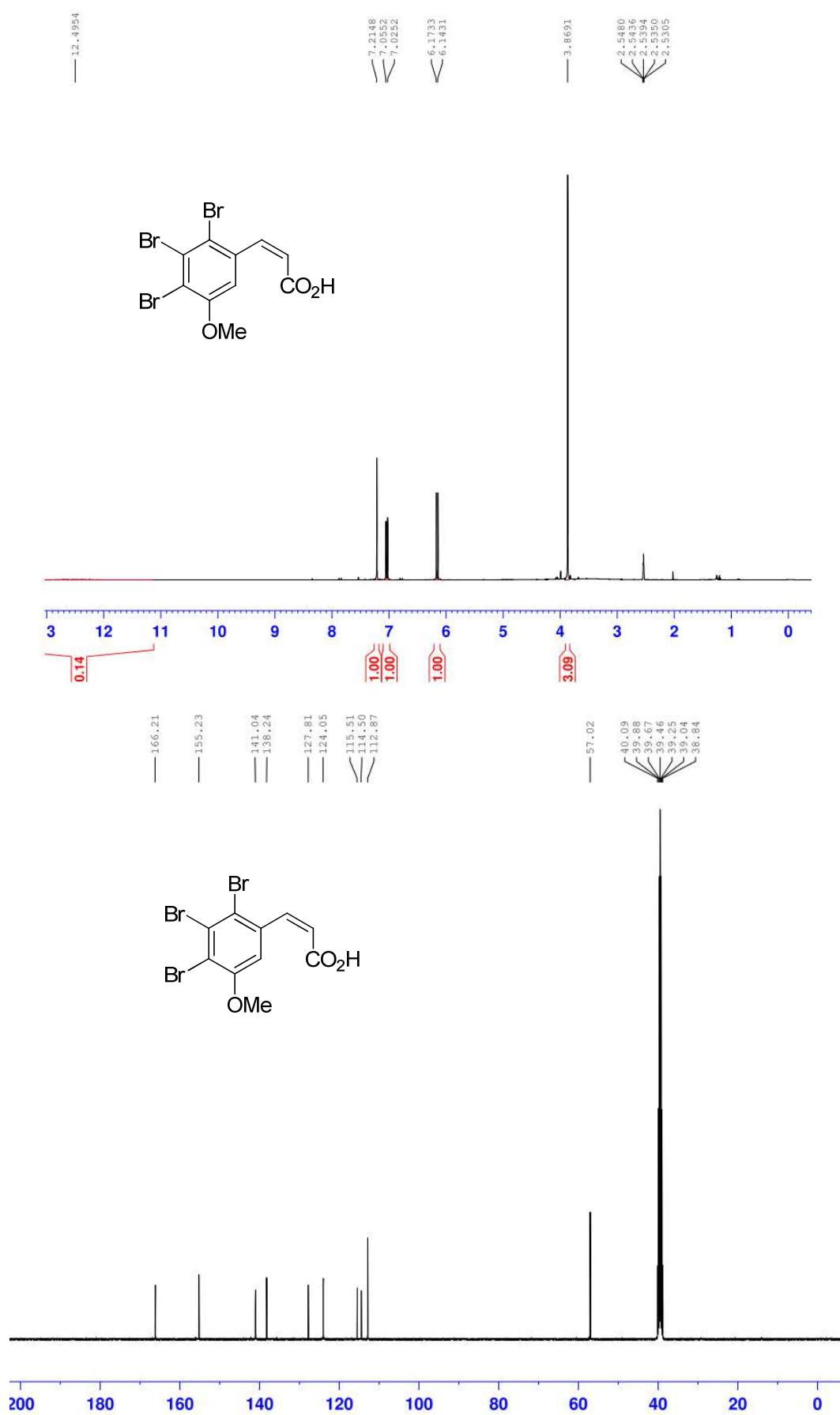
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 11a in $\text{DMSO}-d_6$



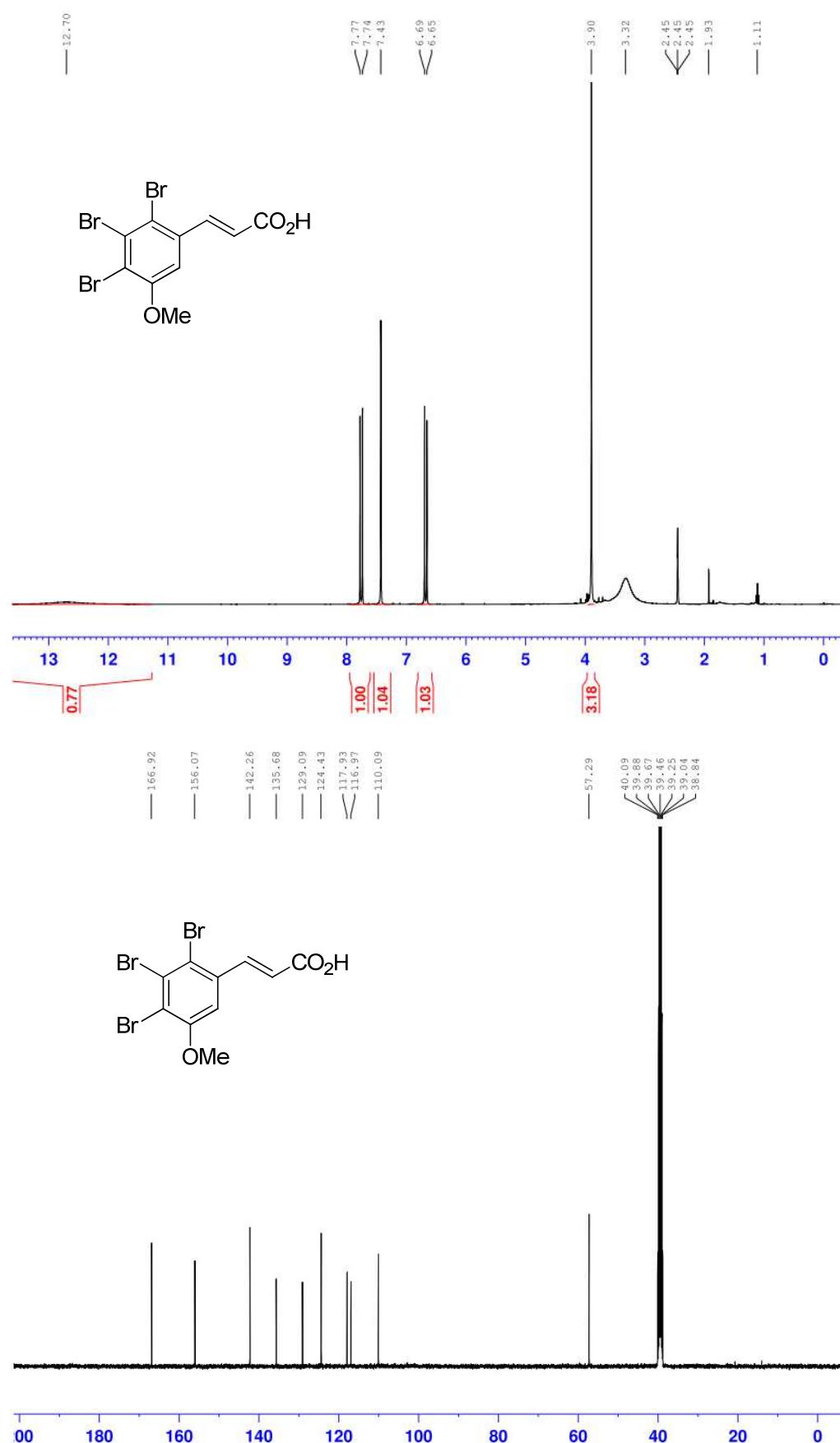
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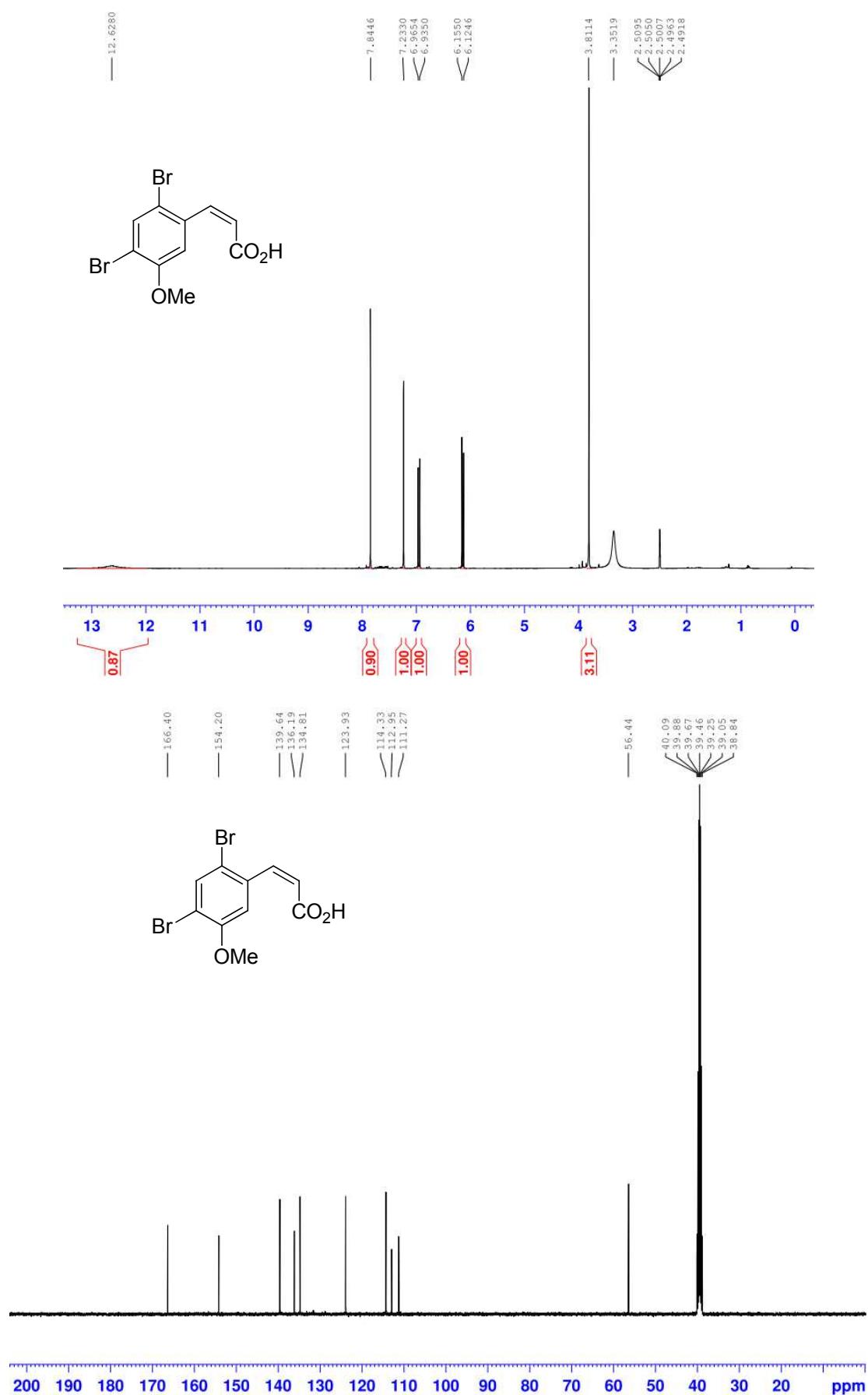
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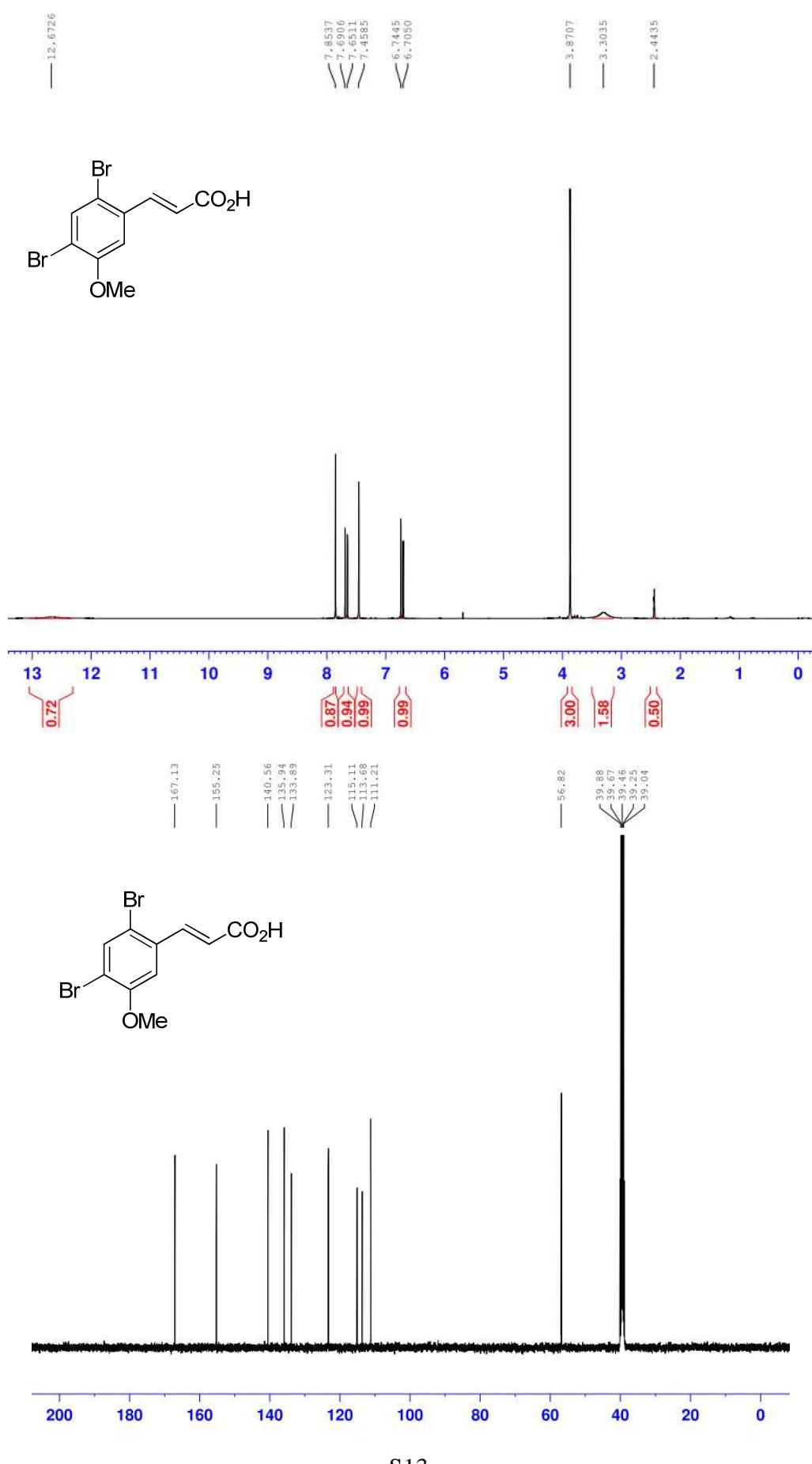
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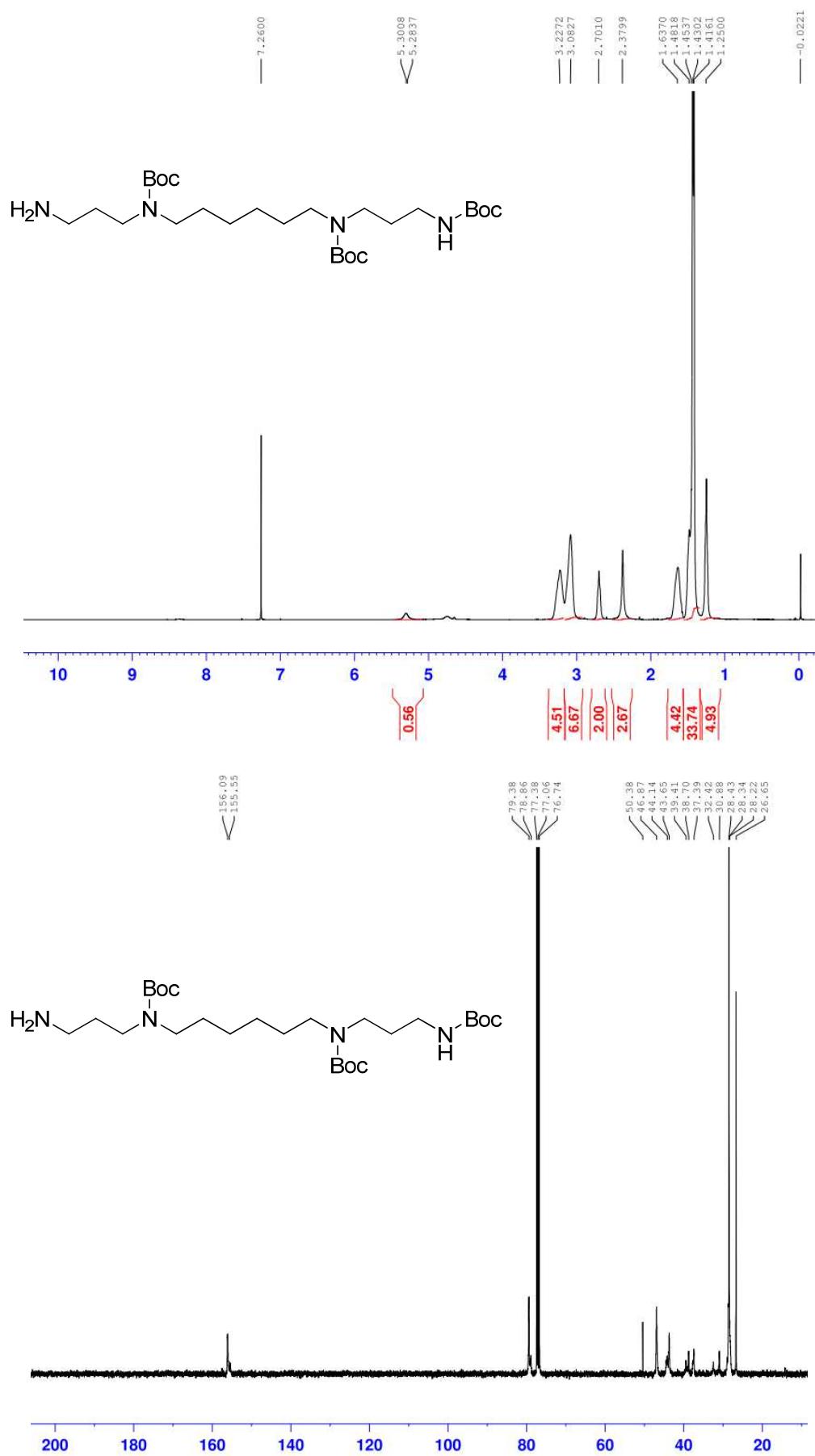
¹H NMR (400 MHz) and ¹³C NMR (100 MHz) of 11e in DMSO-d₆



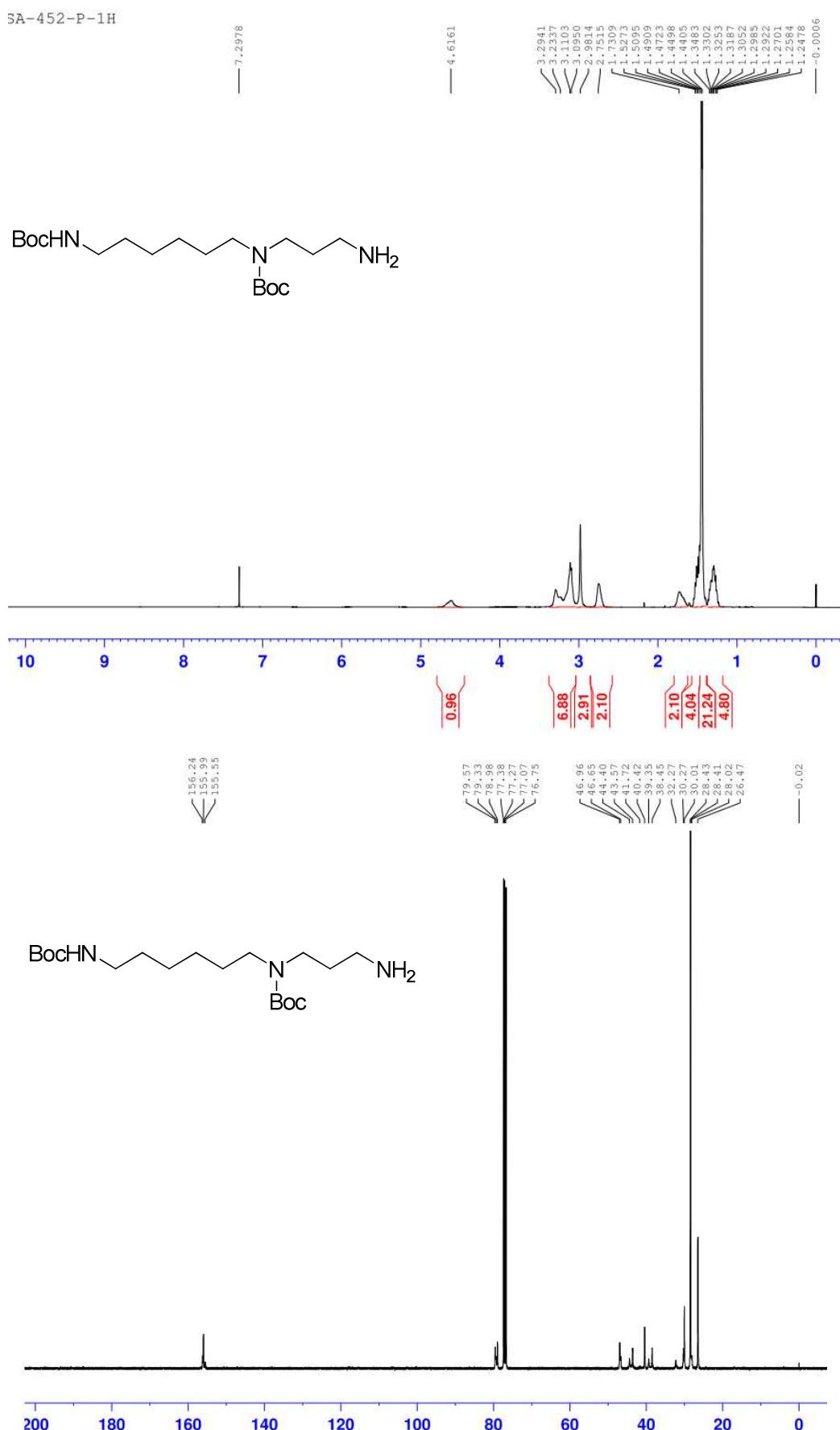
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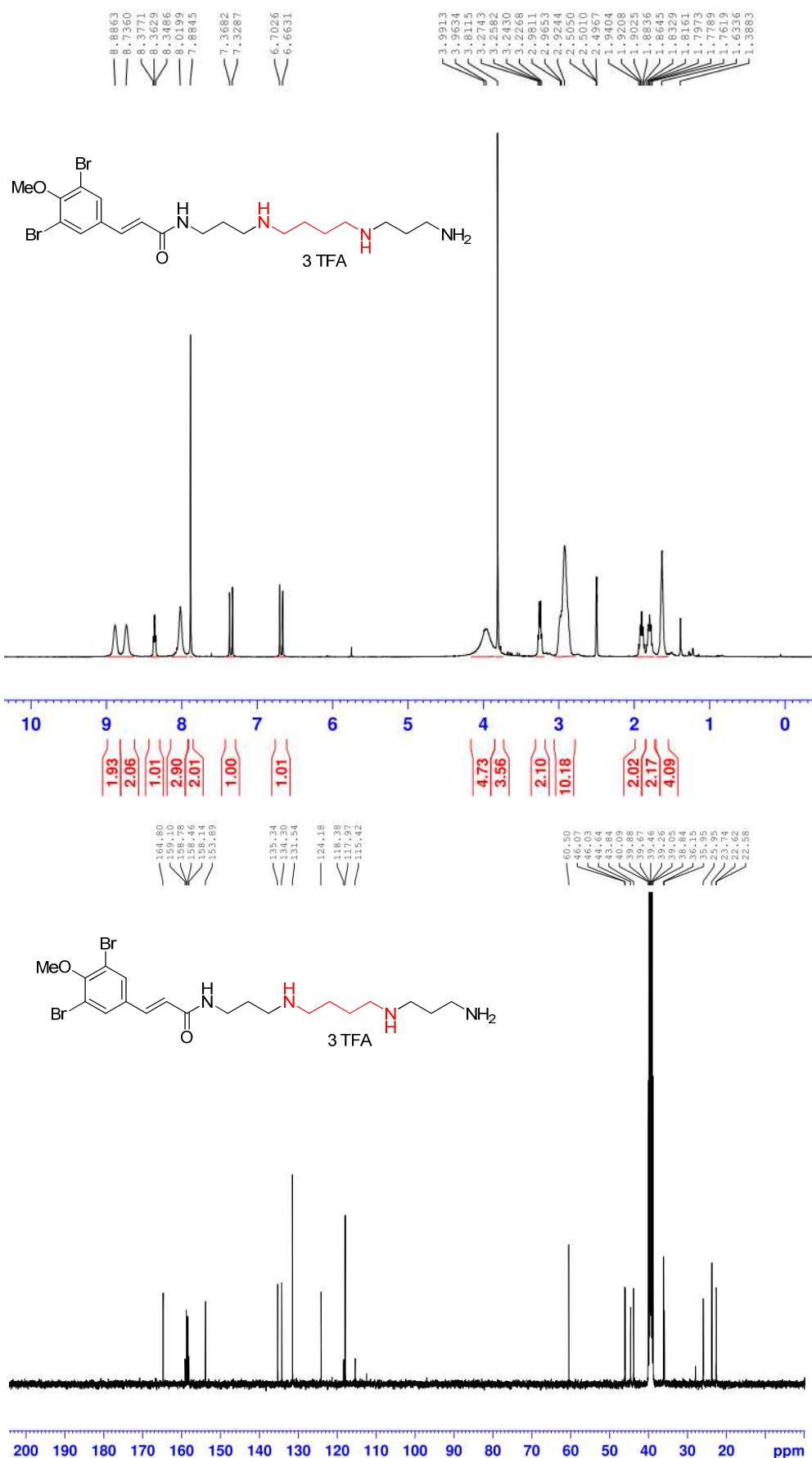
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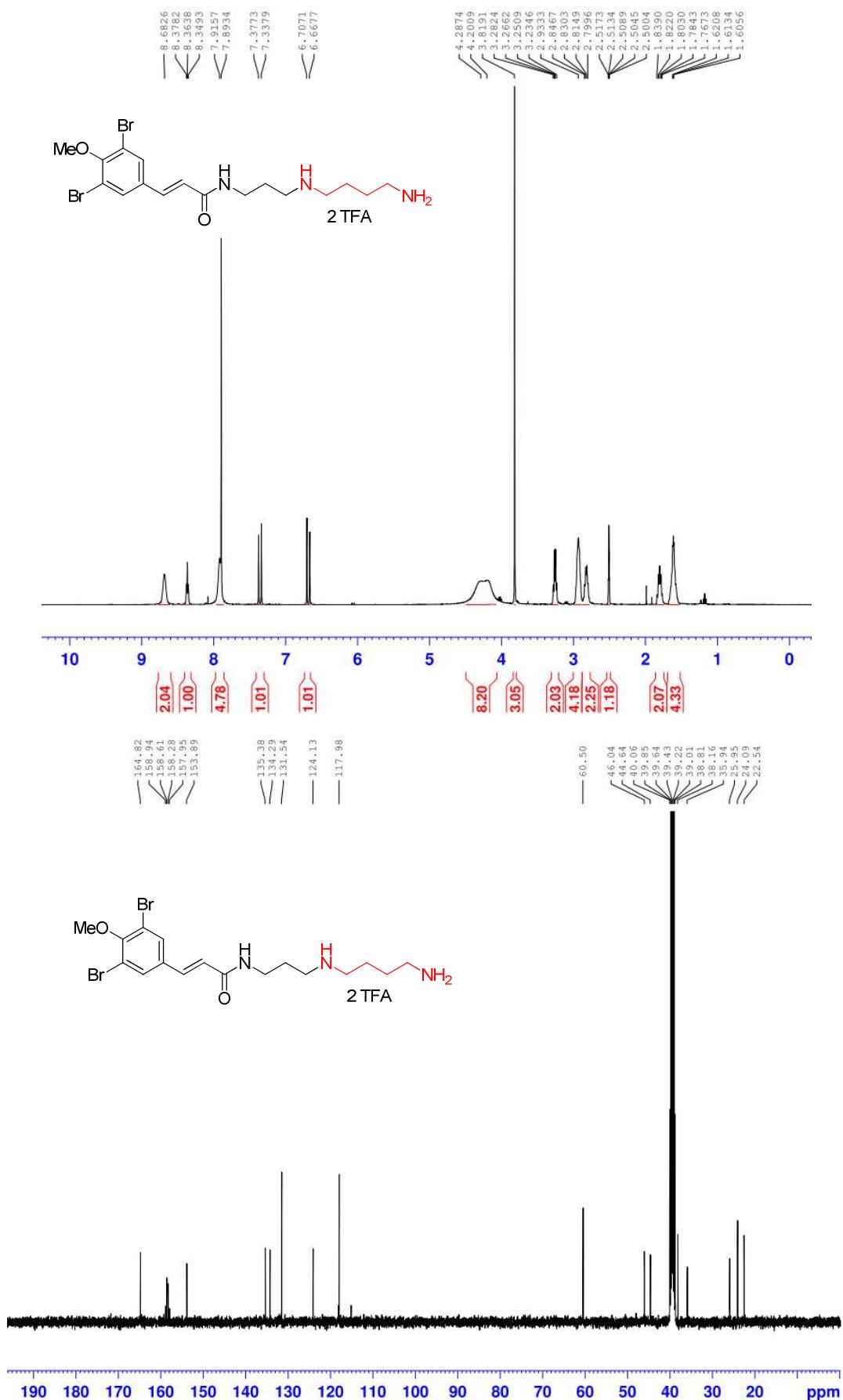
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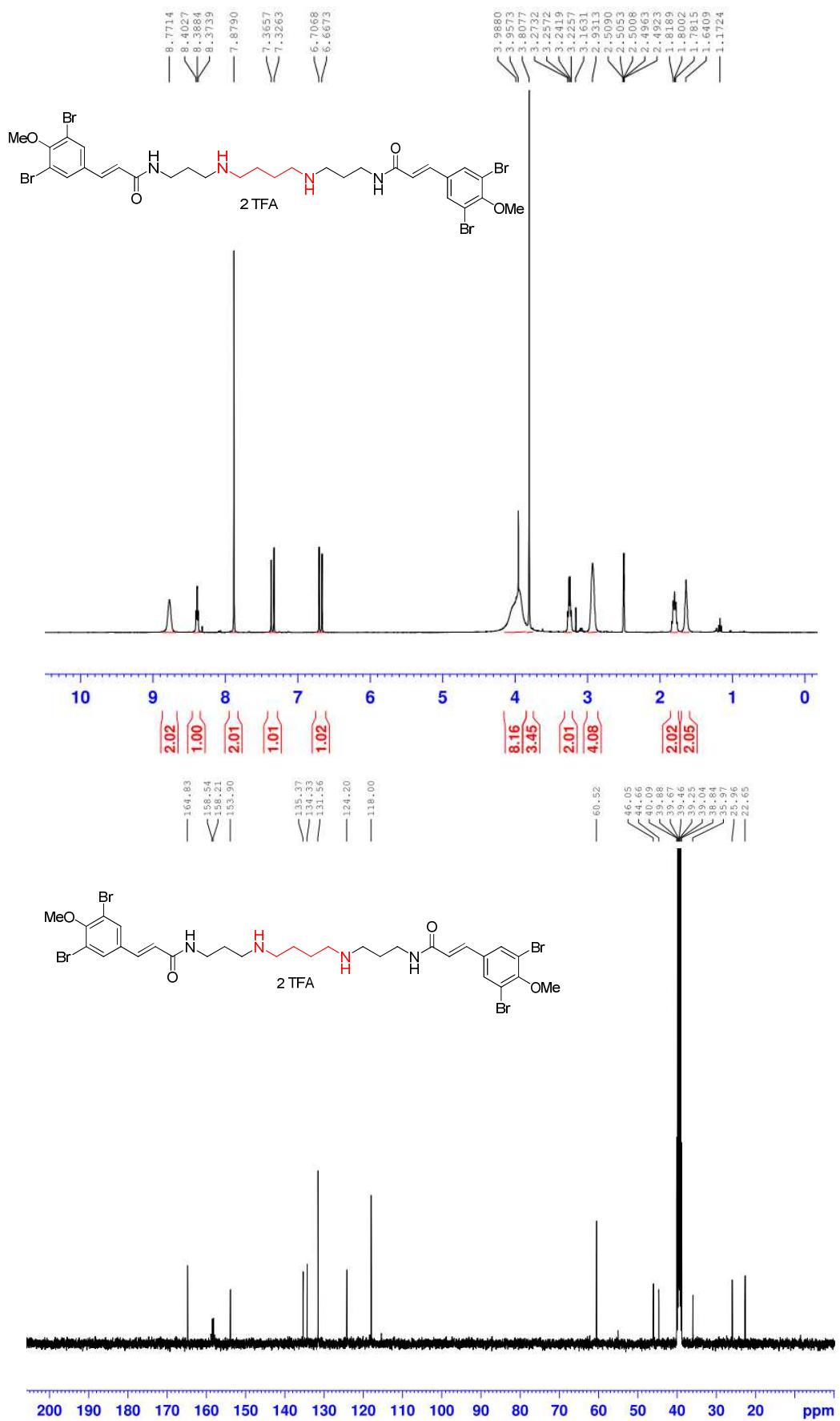
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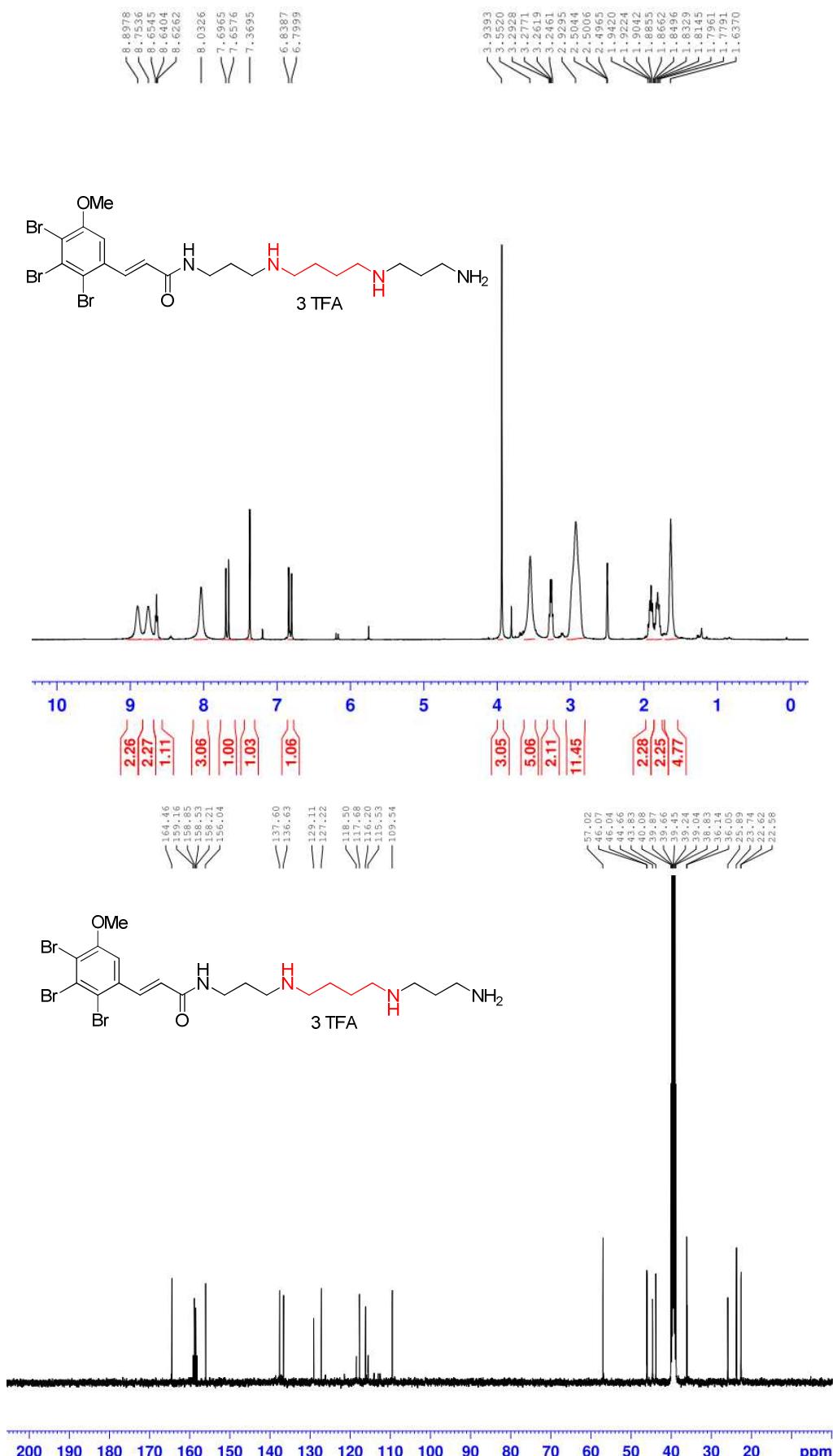
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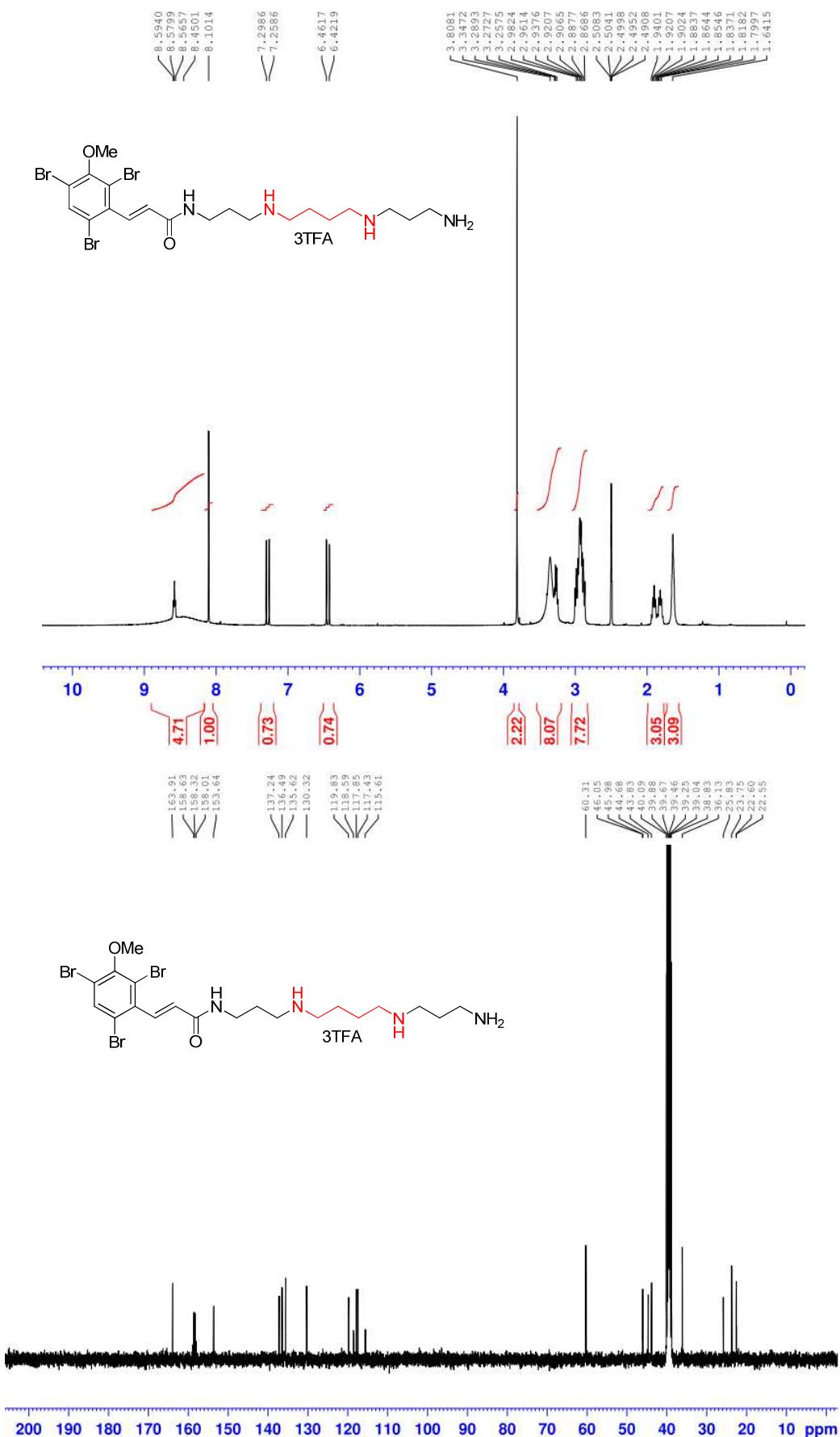
¹H NMR (400 MHz) and ¹³C NMR (100 MHz) of 3 in DMSO-*d*₆



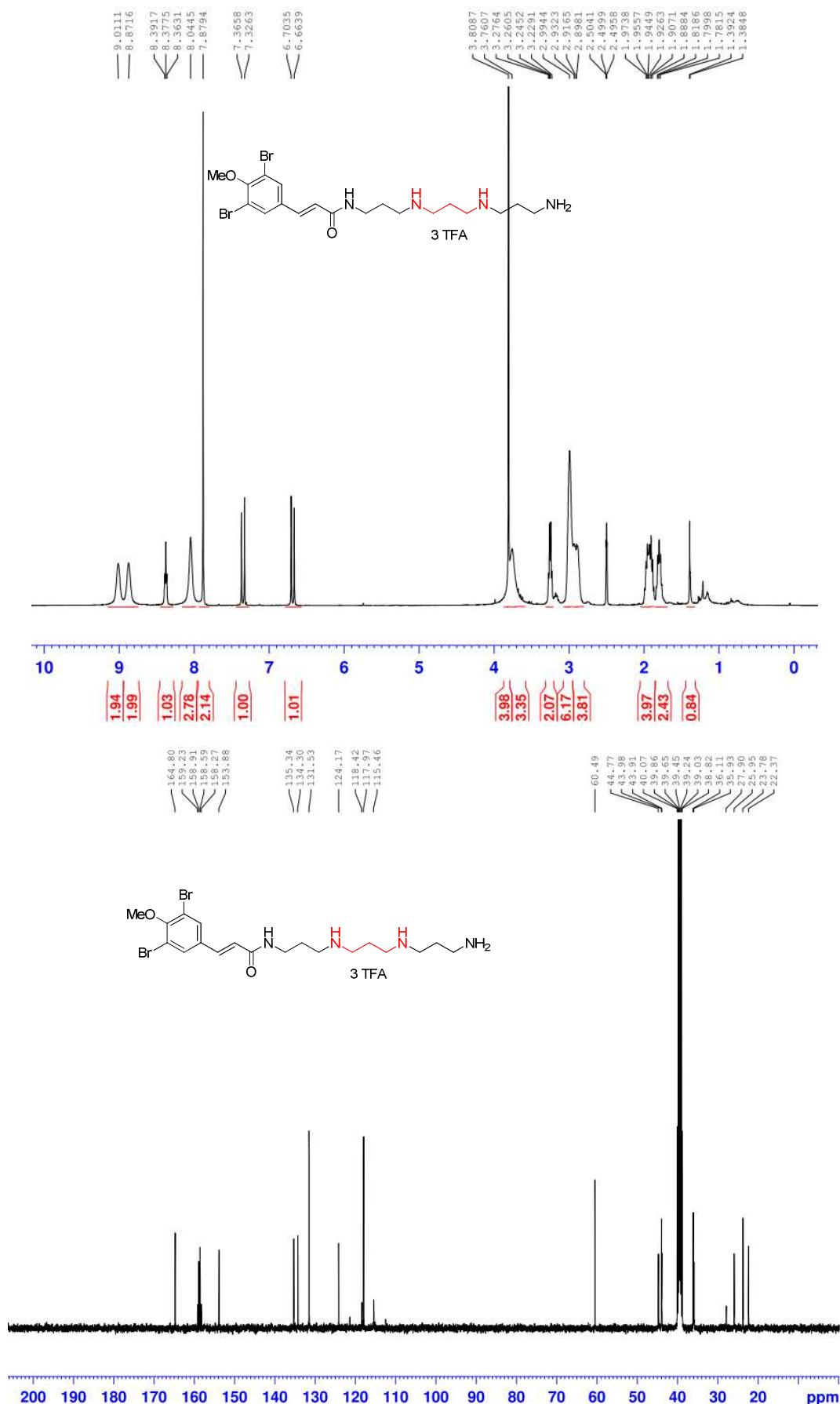
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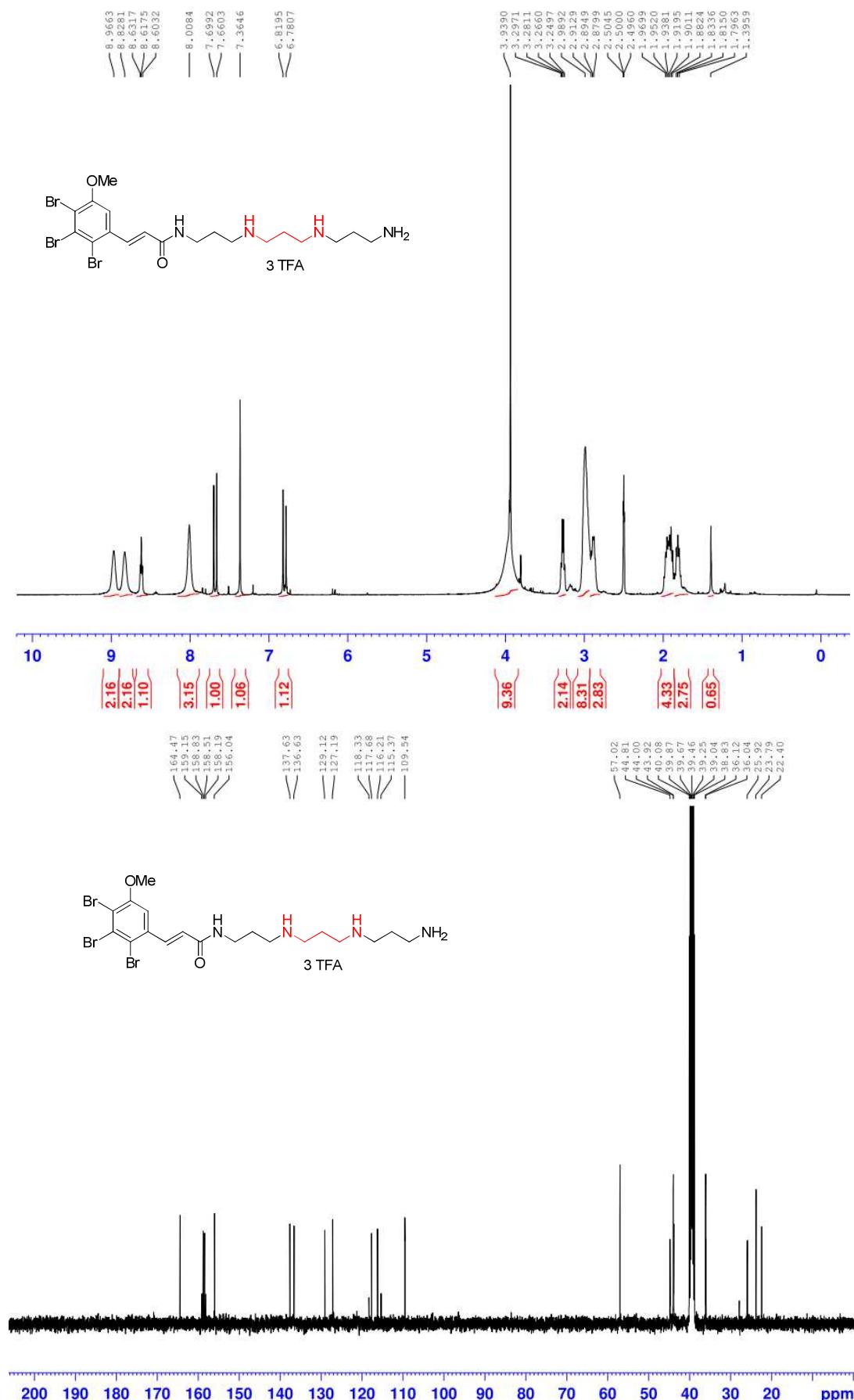
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of 16 in $\text{DMSO}-d_6$



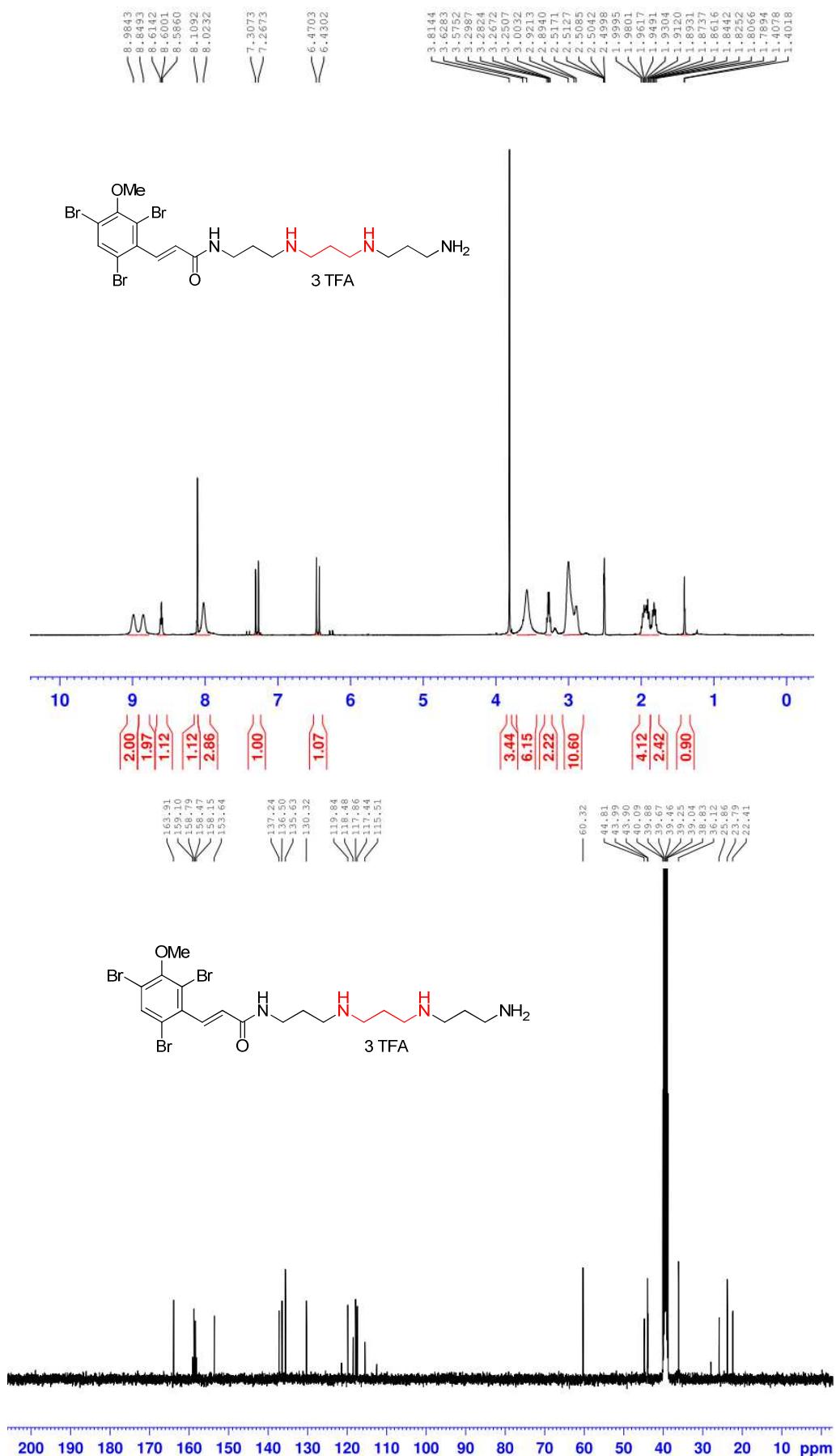
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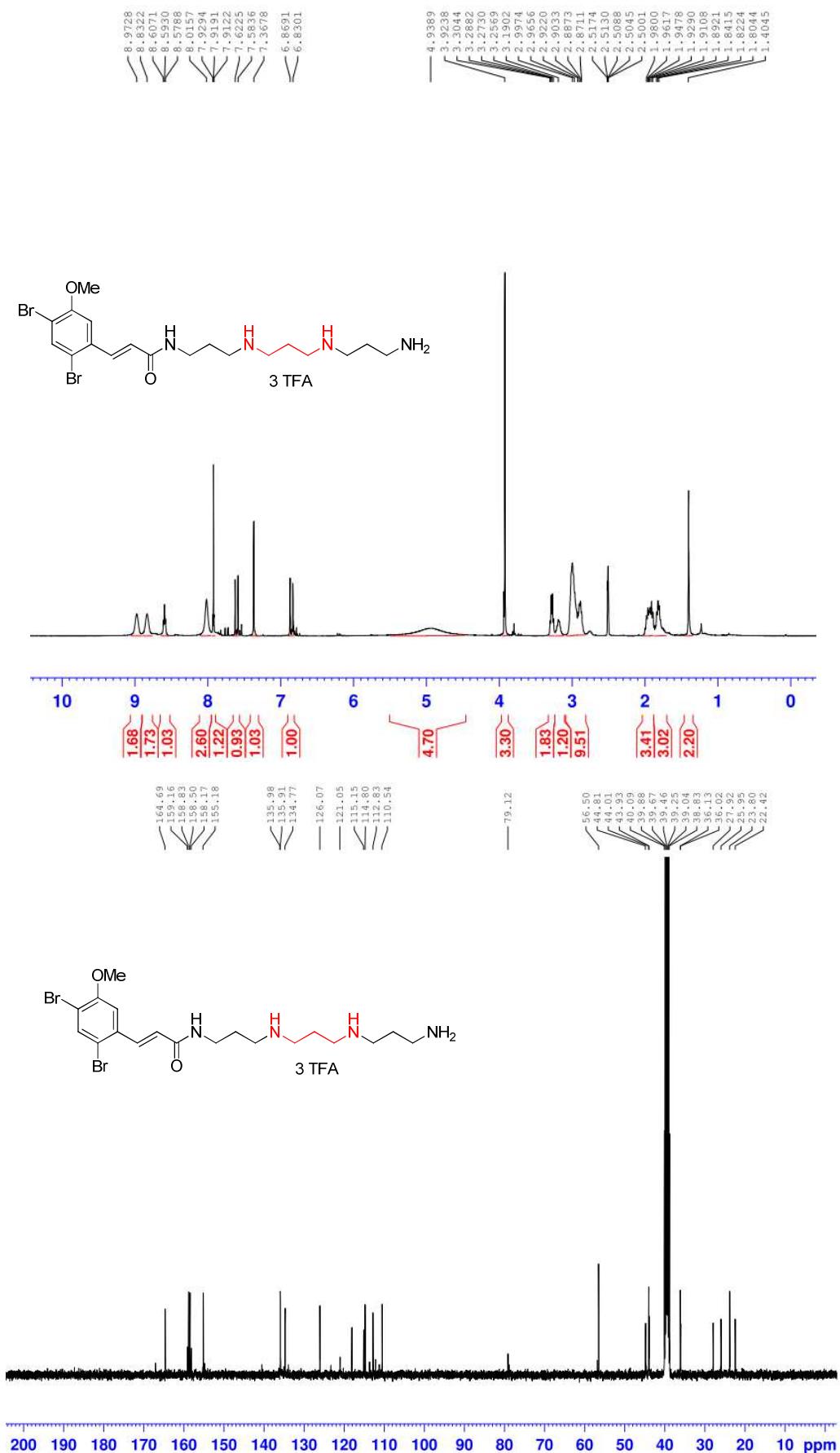
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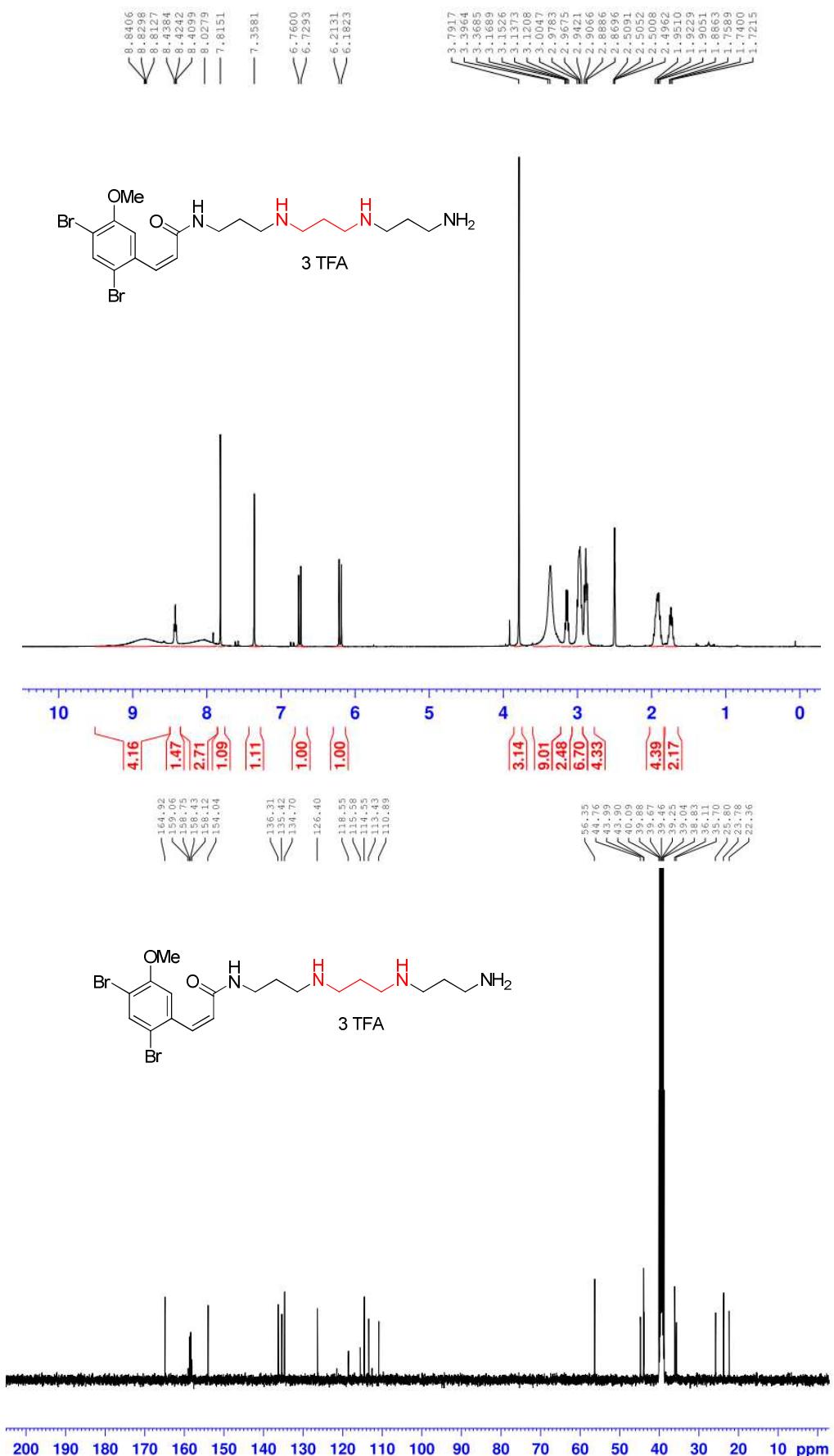
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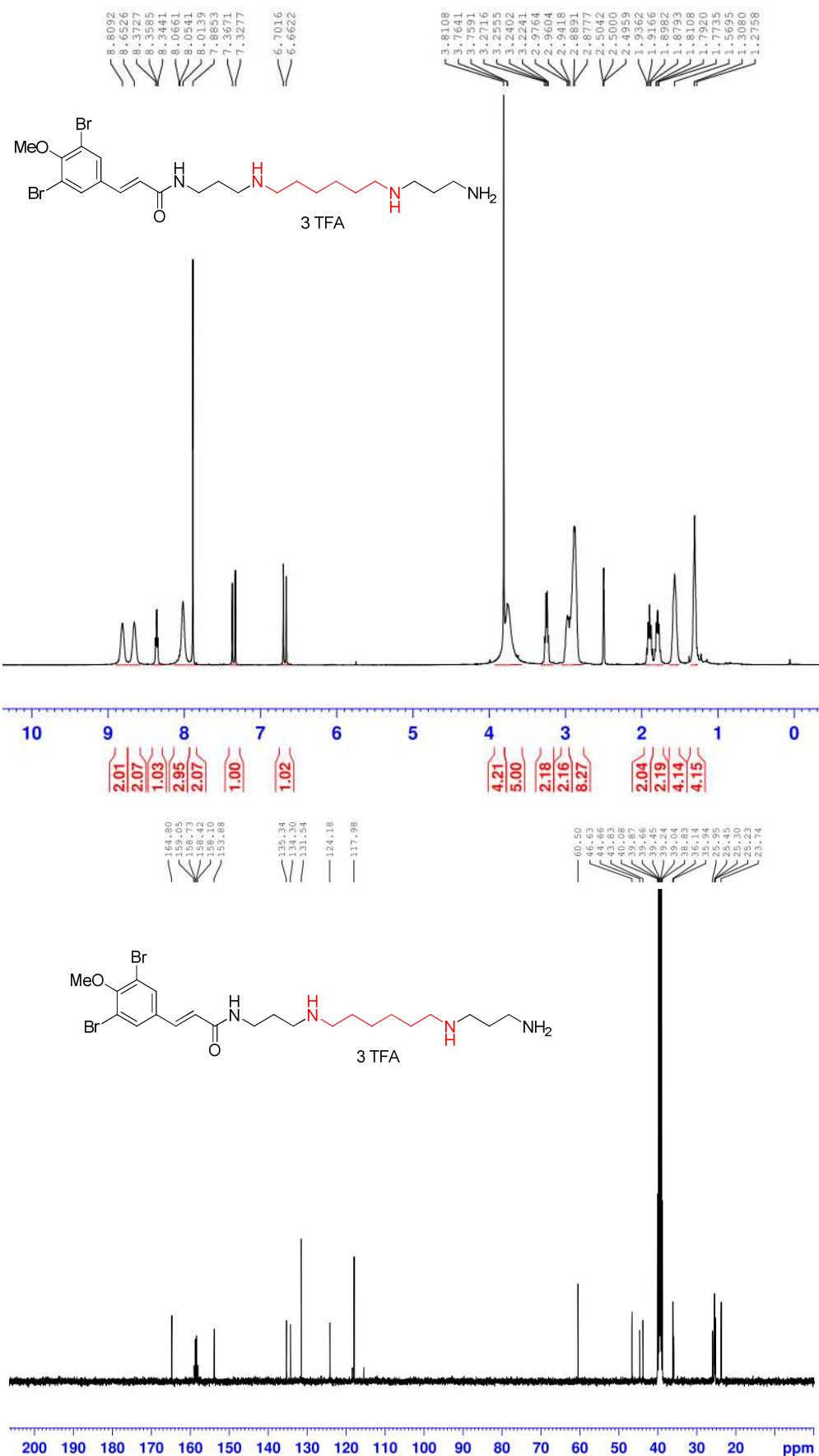
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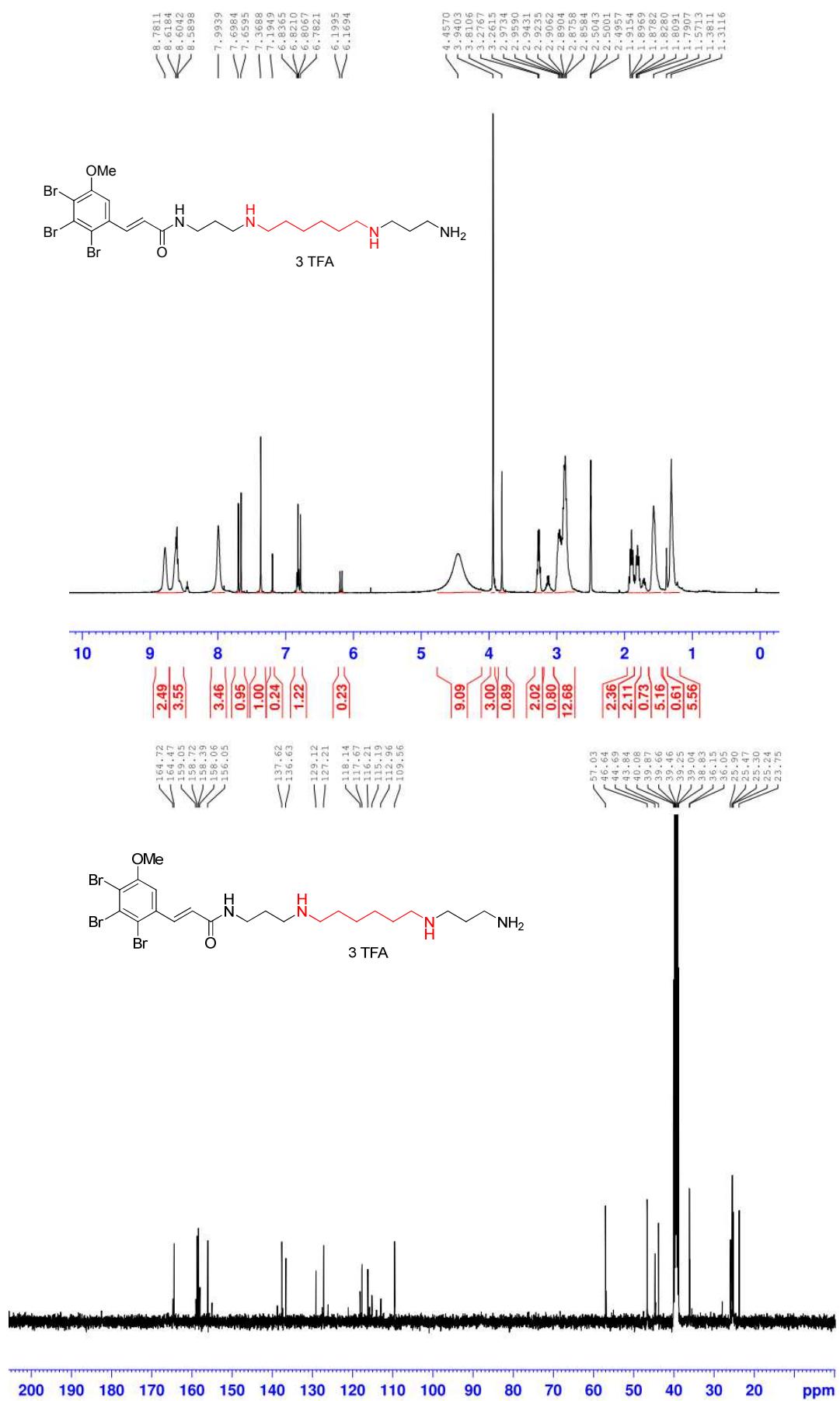
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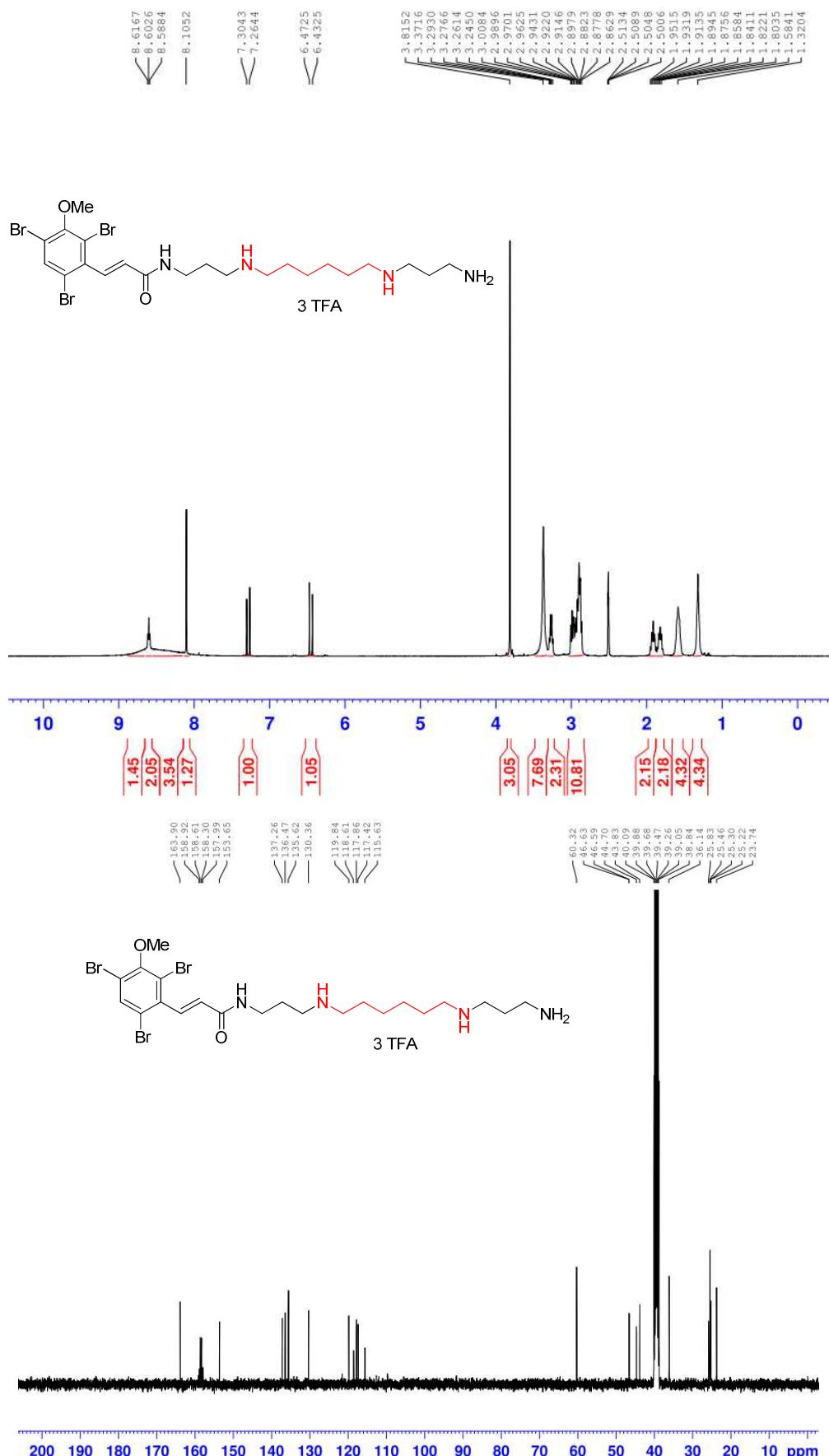
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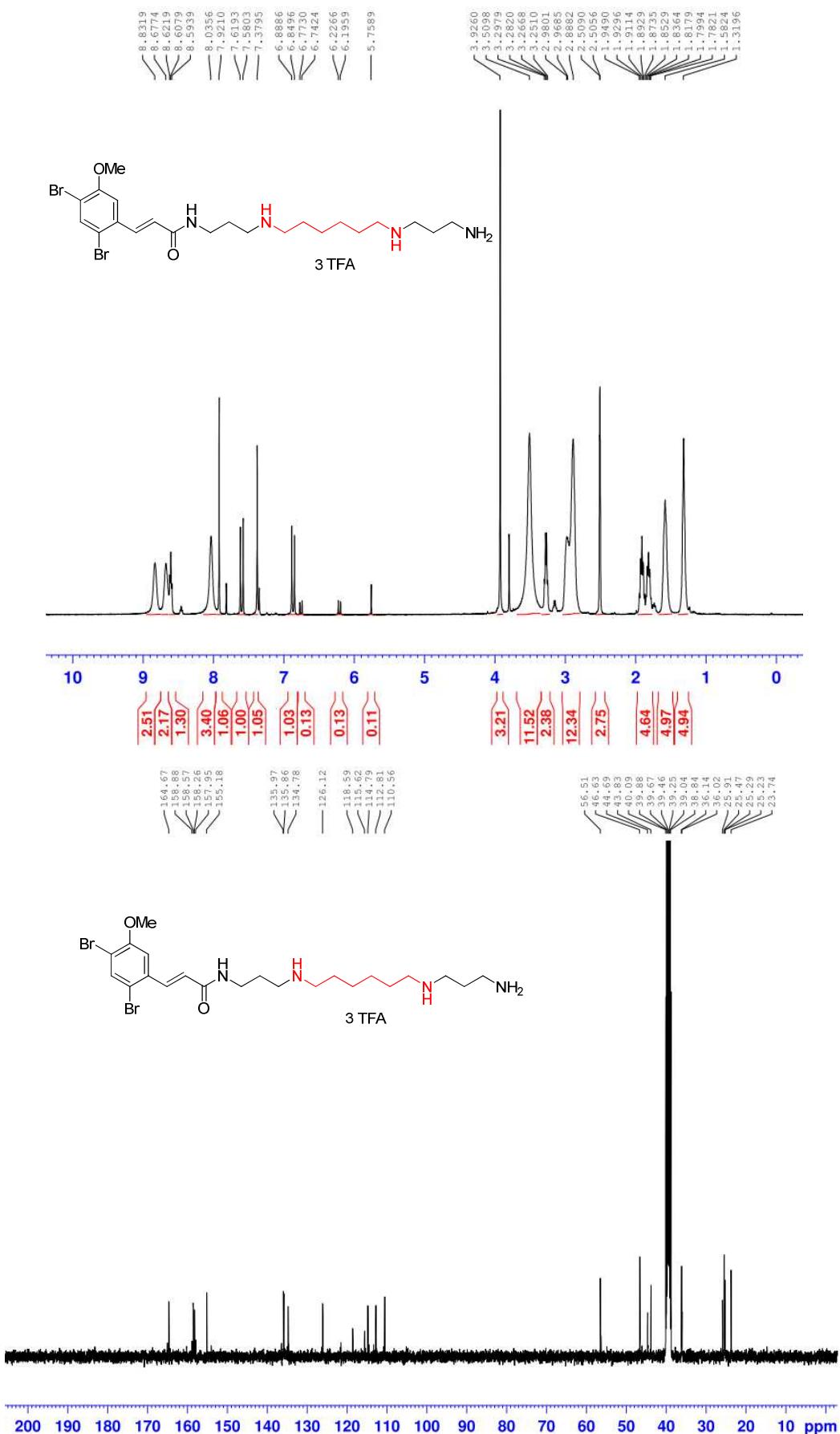
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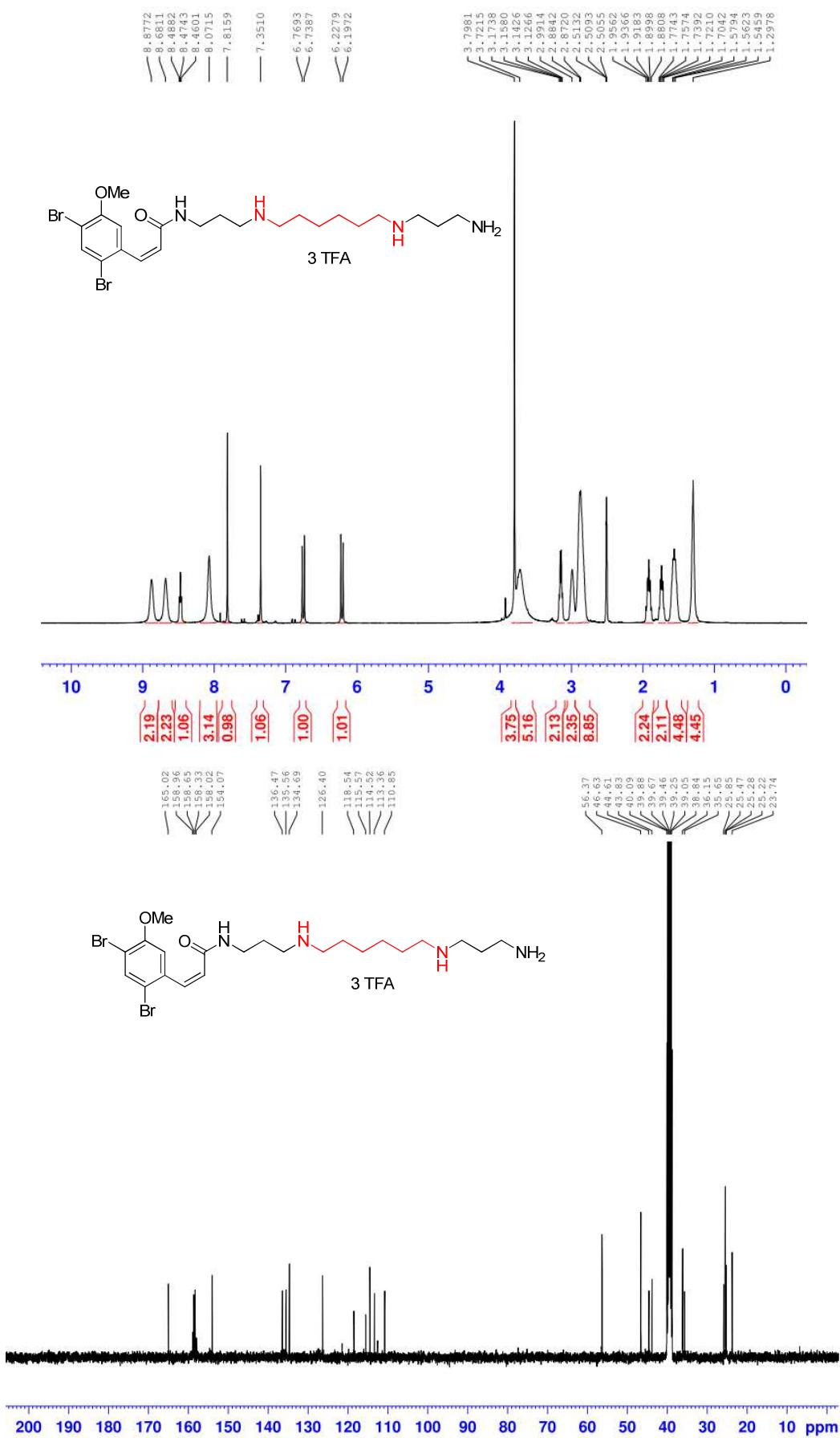
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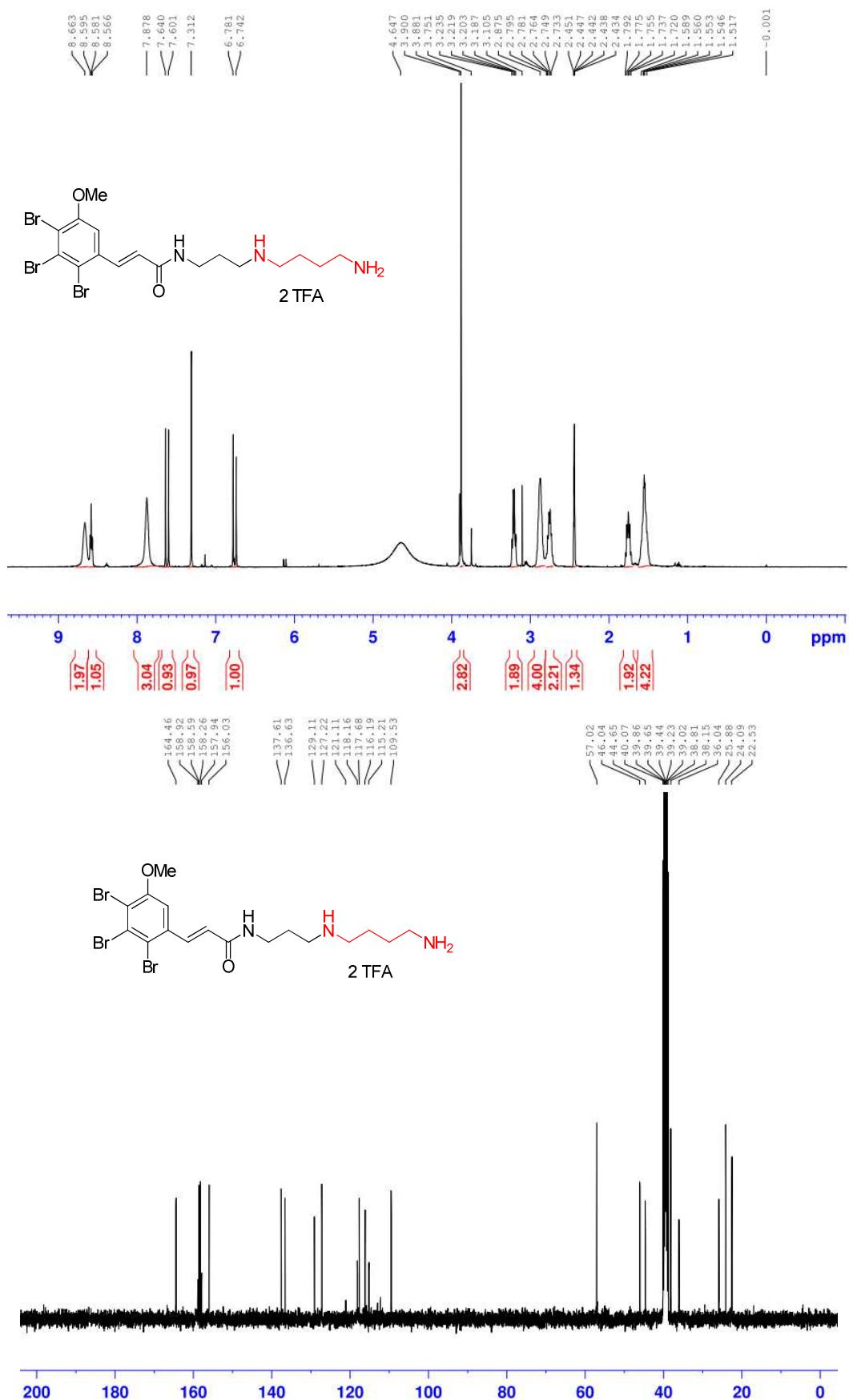
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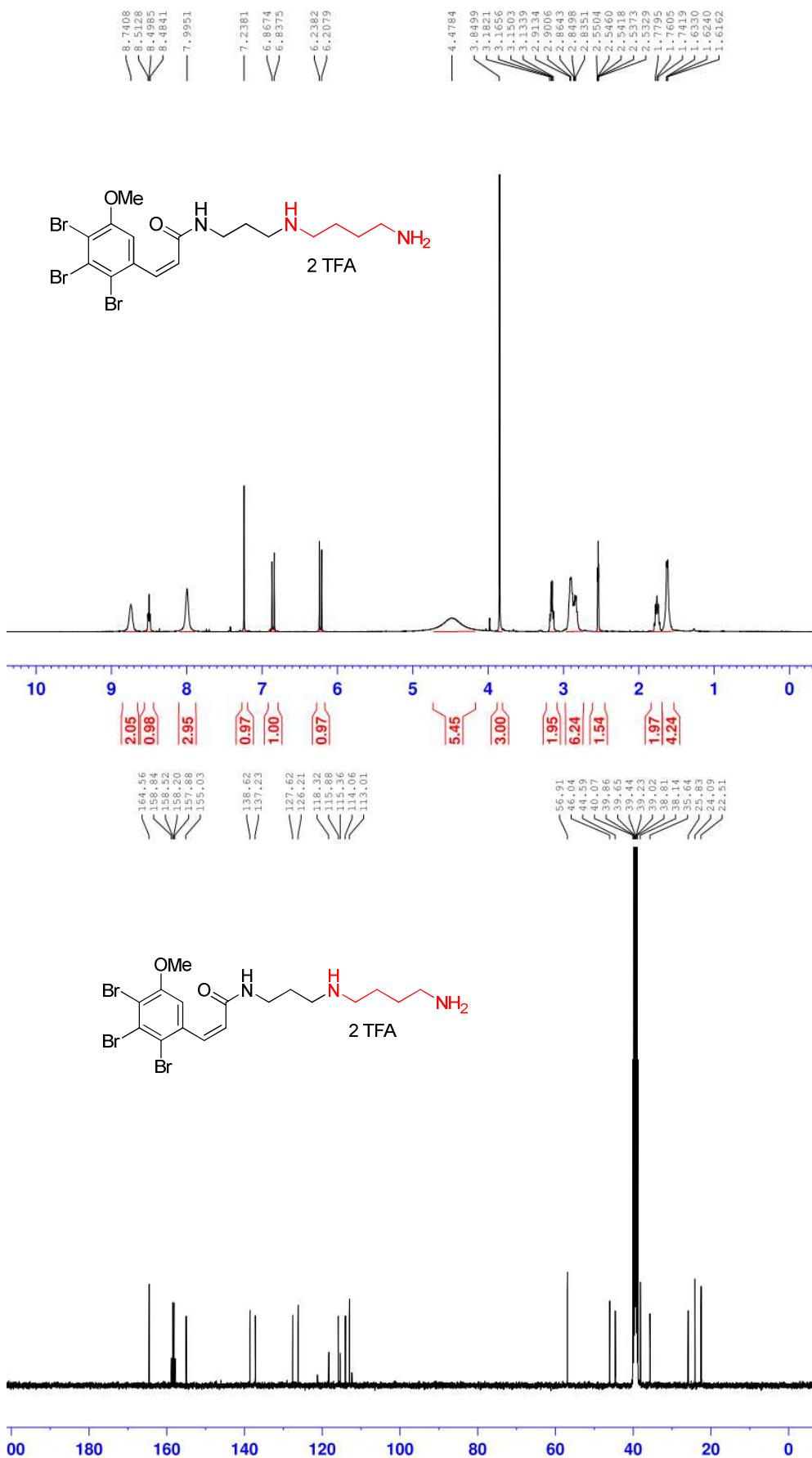
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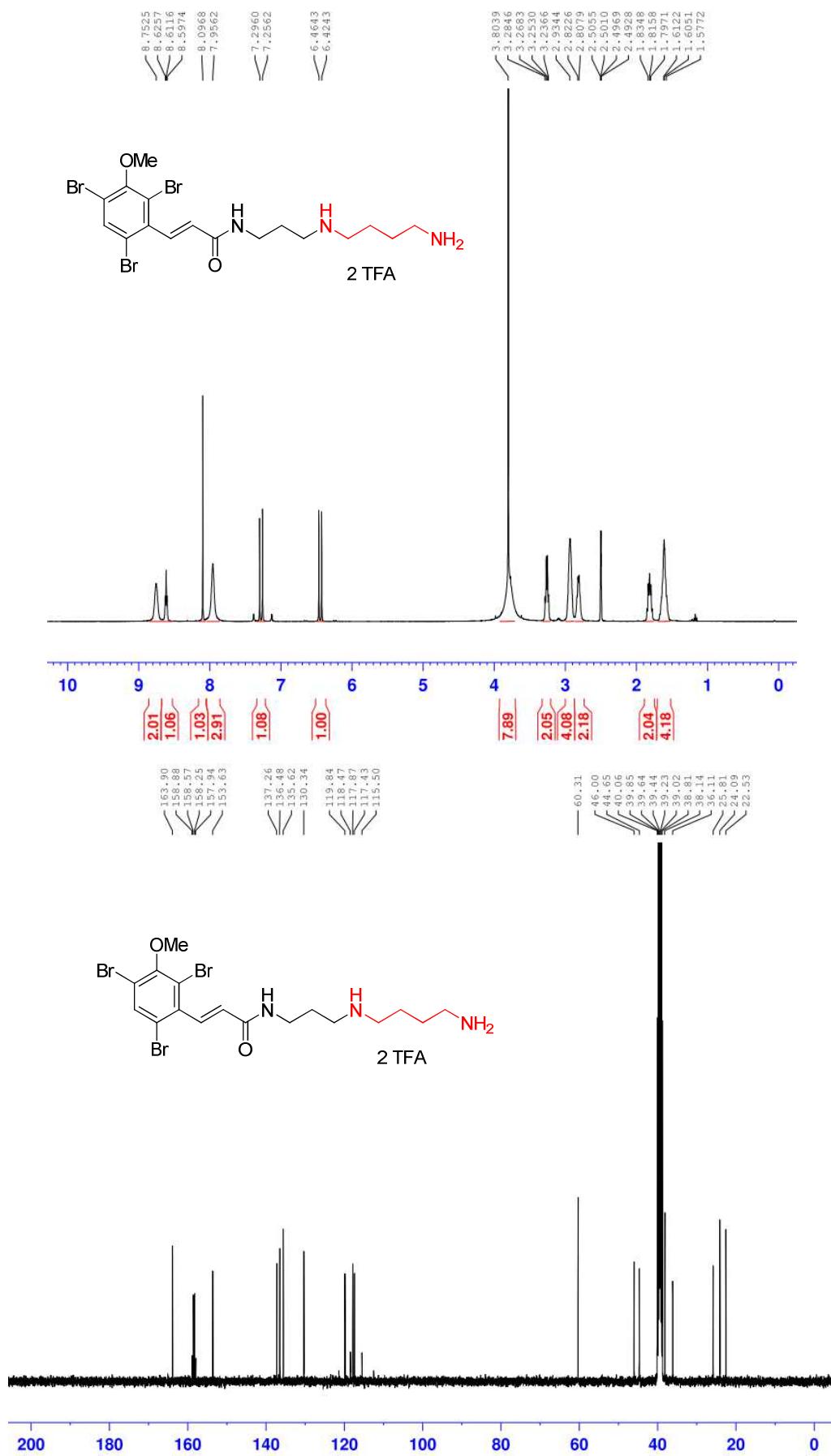
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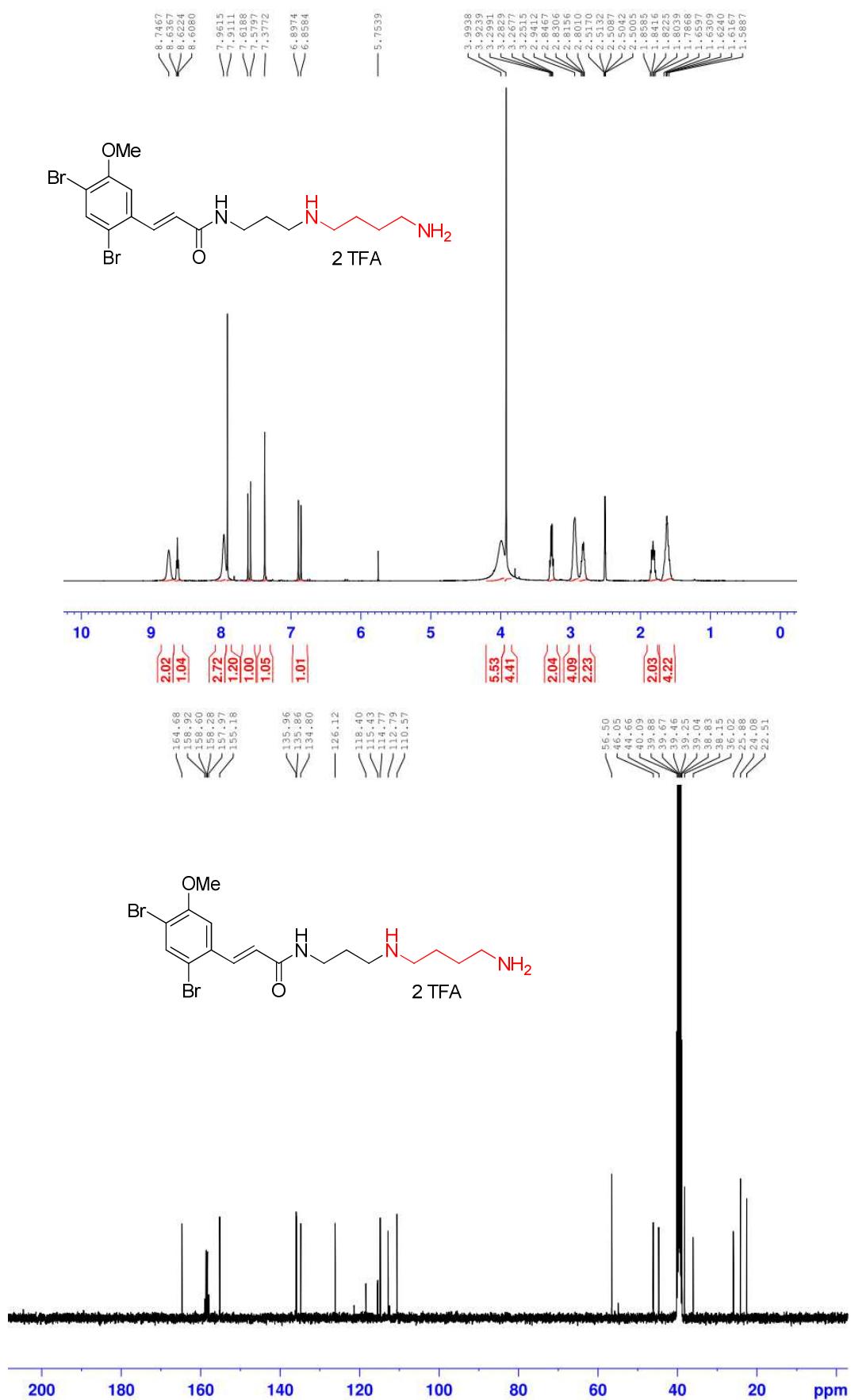
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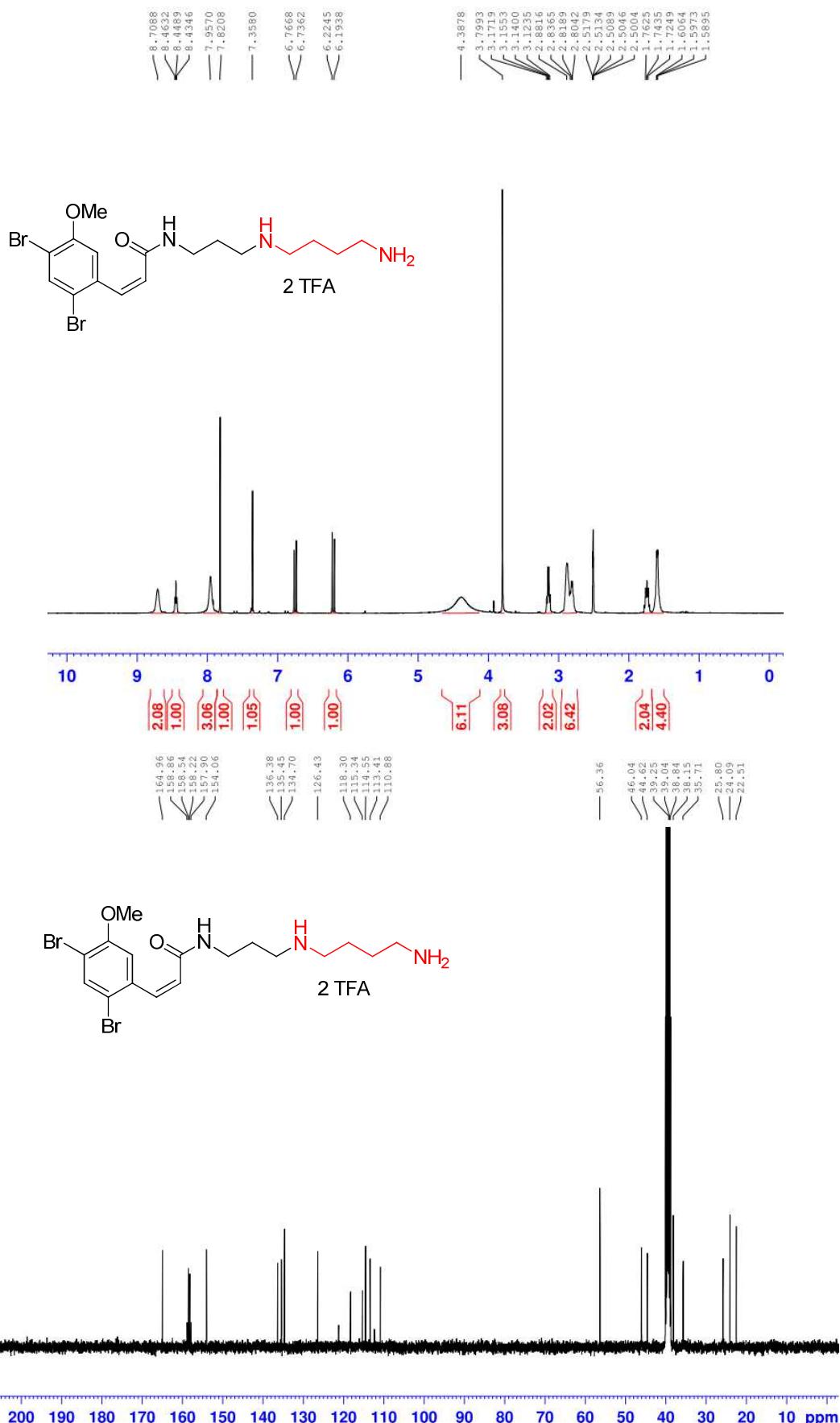
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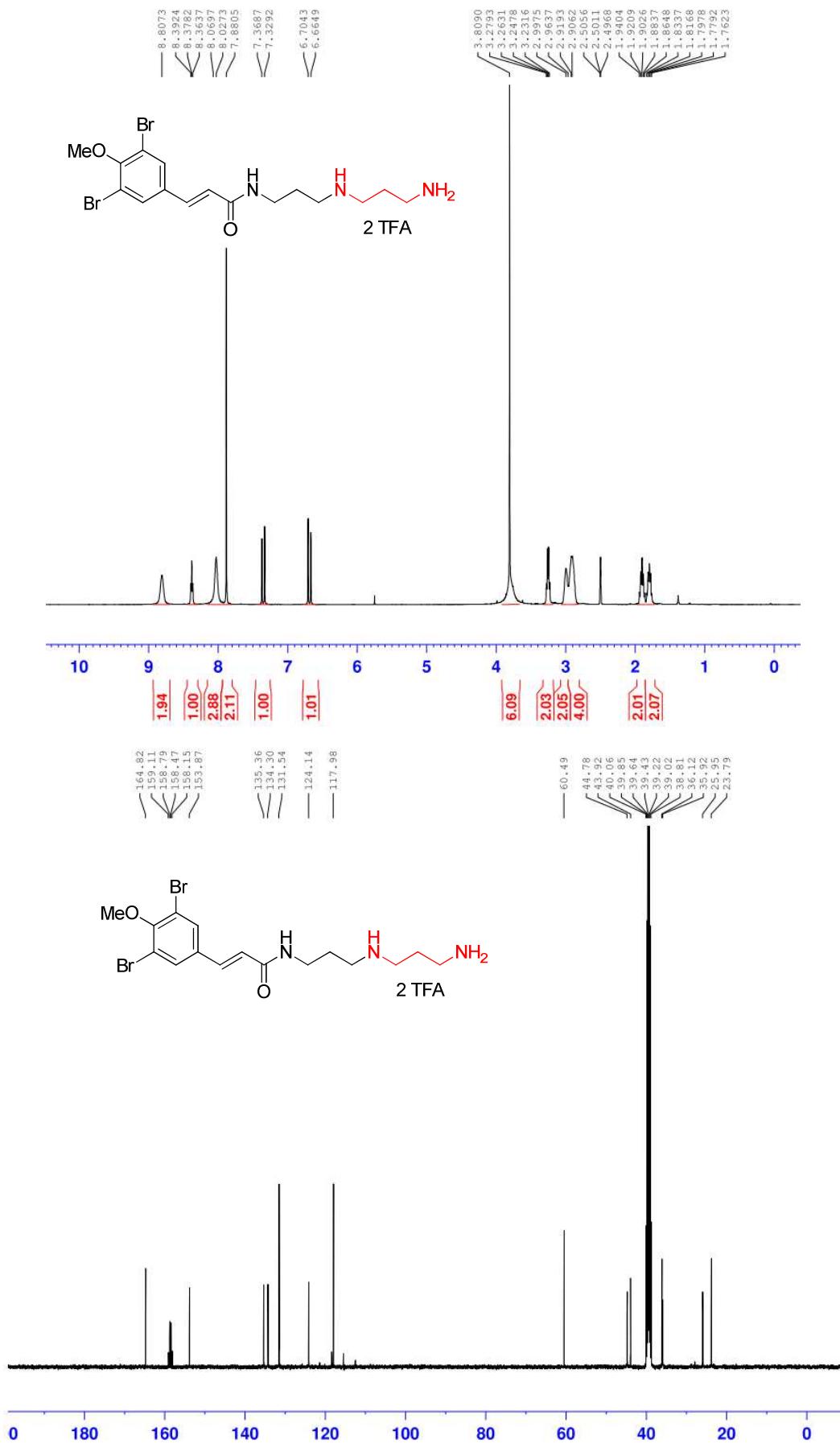
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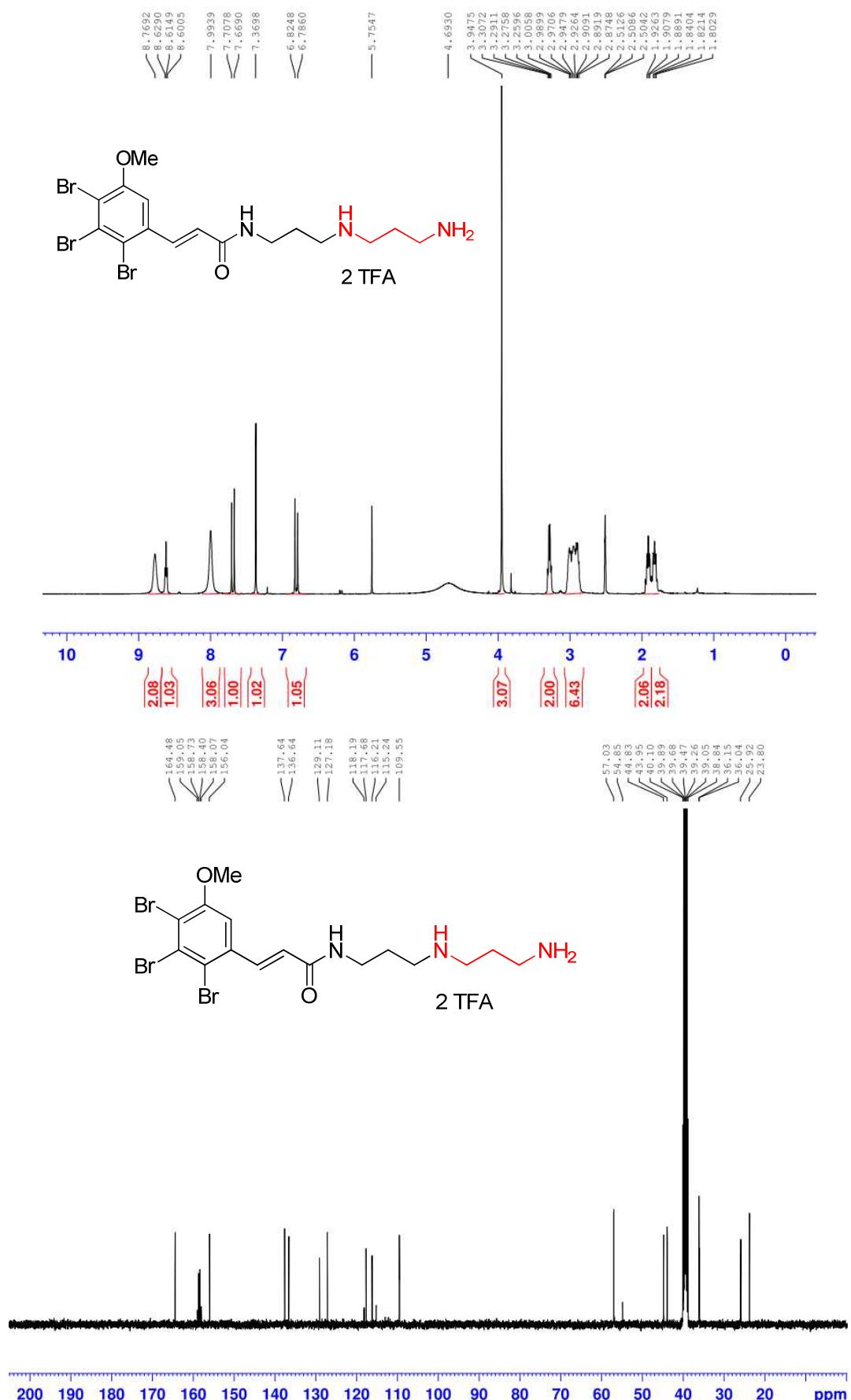
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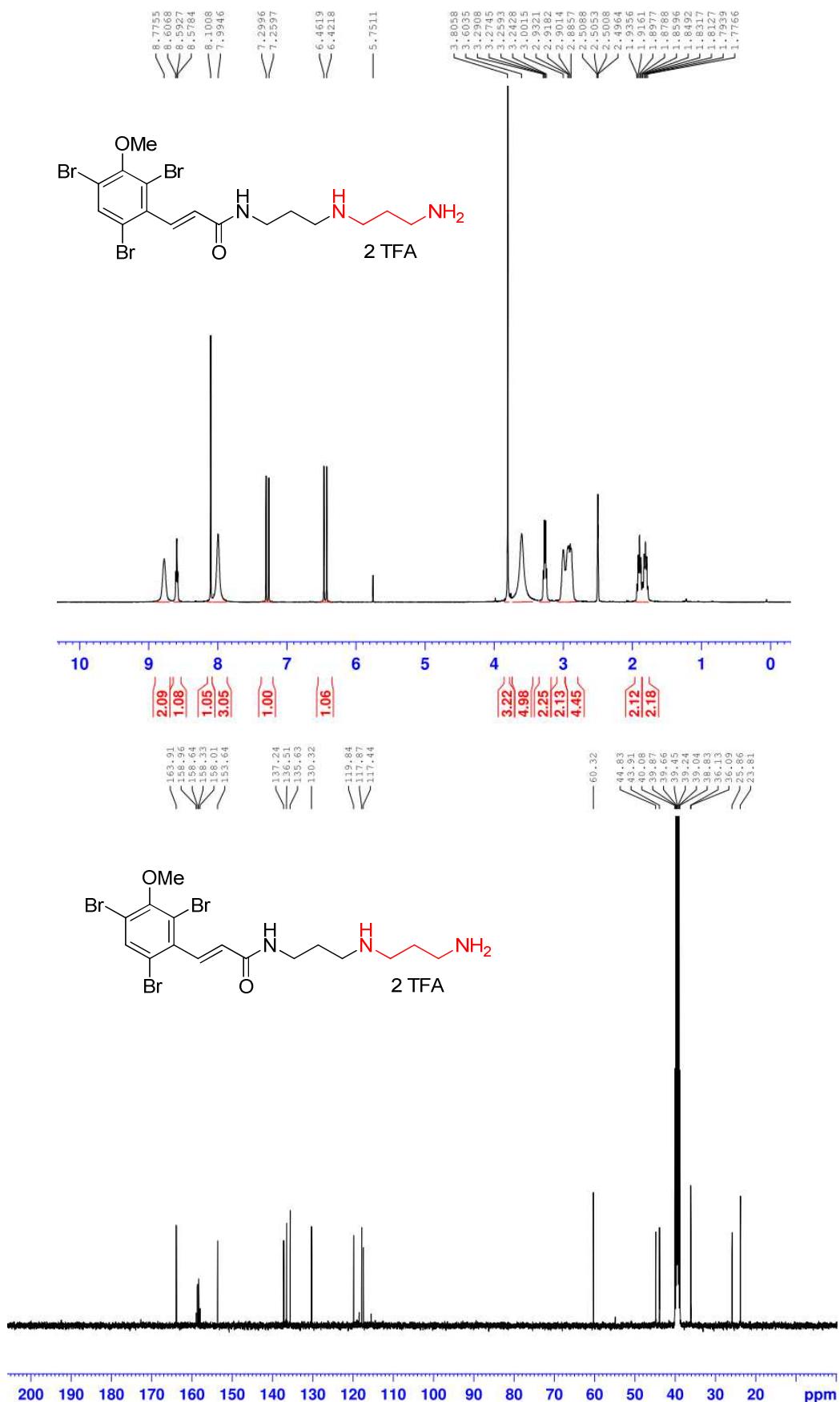
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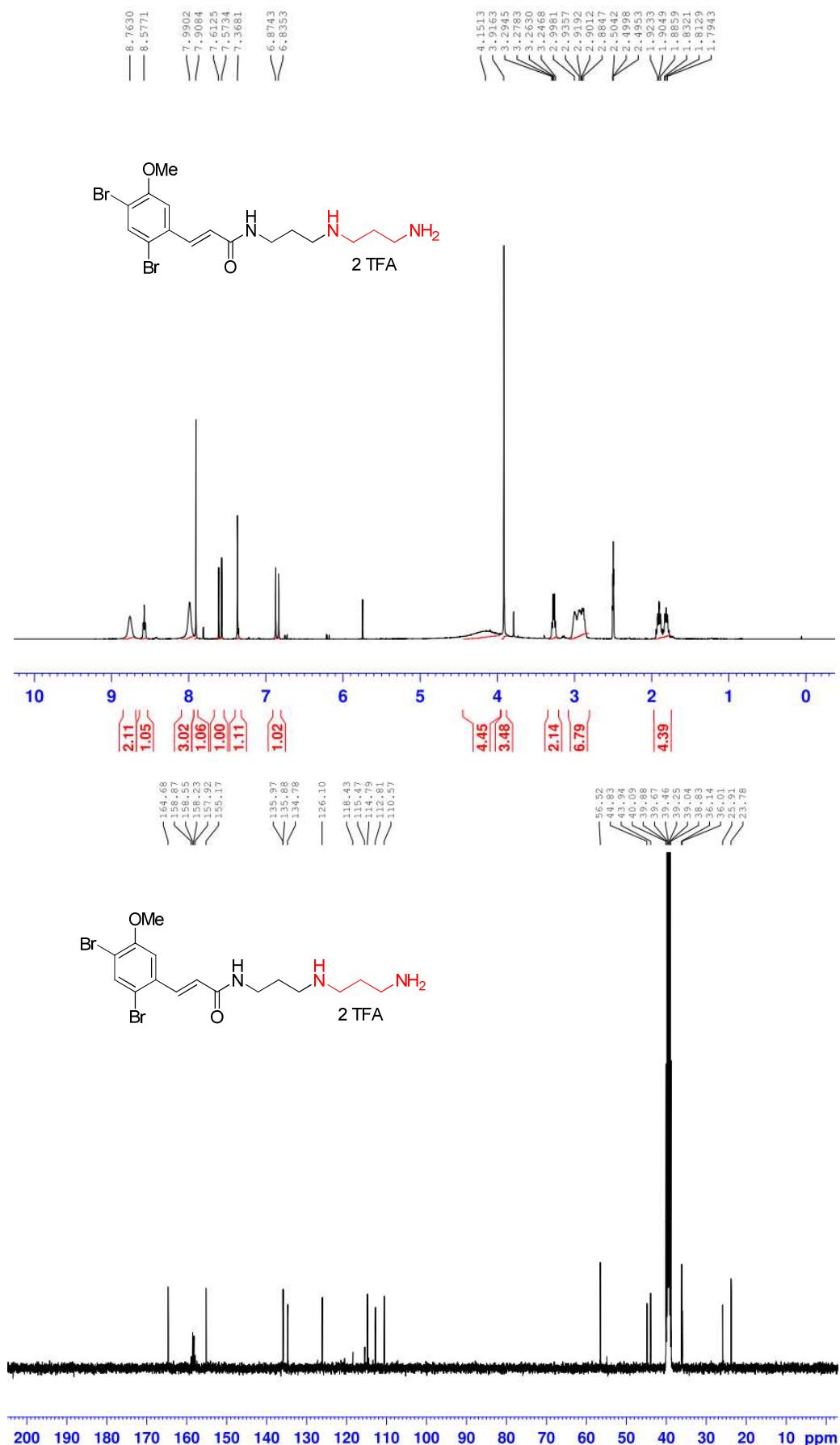
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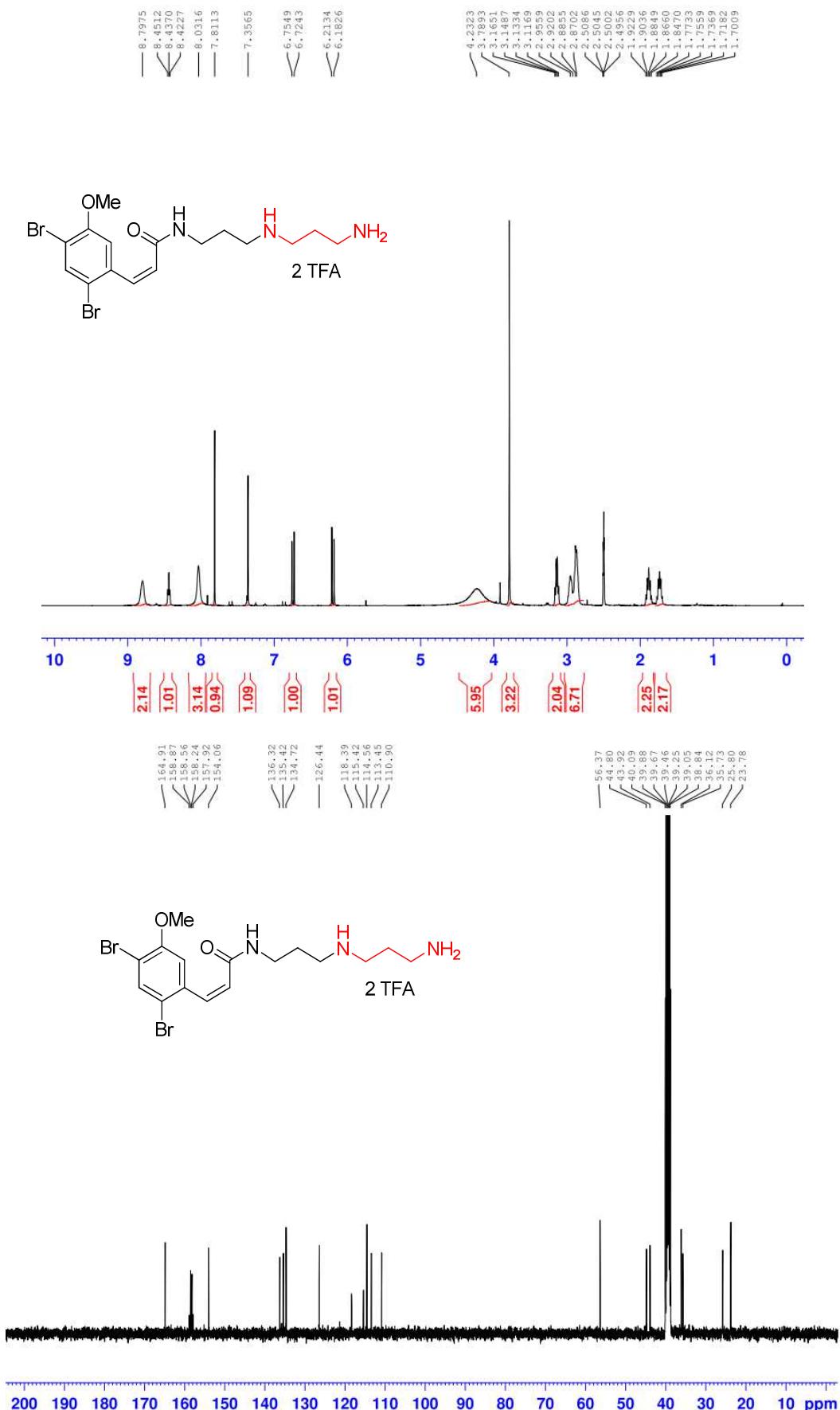
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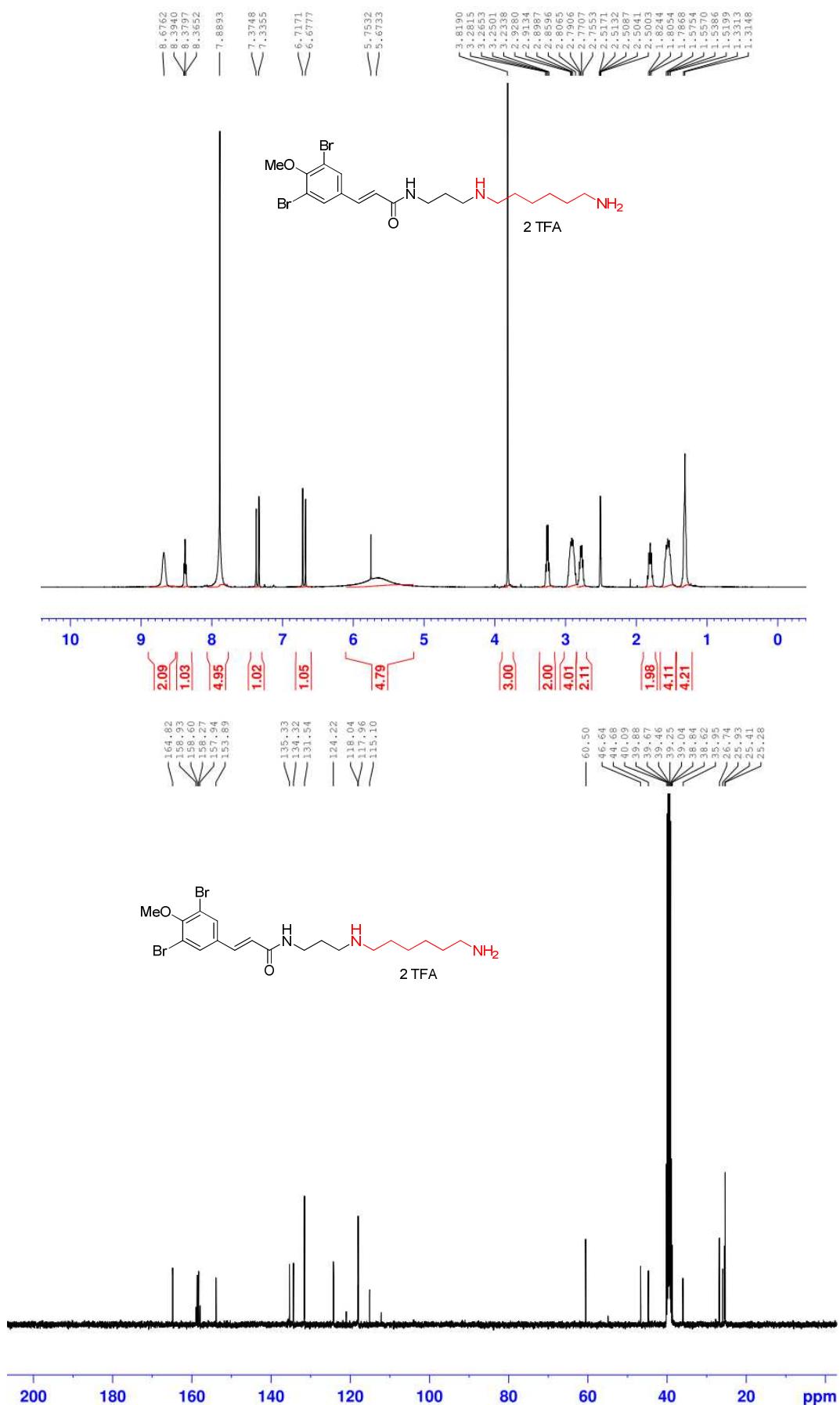
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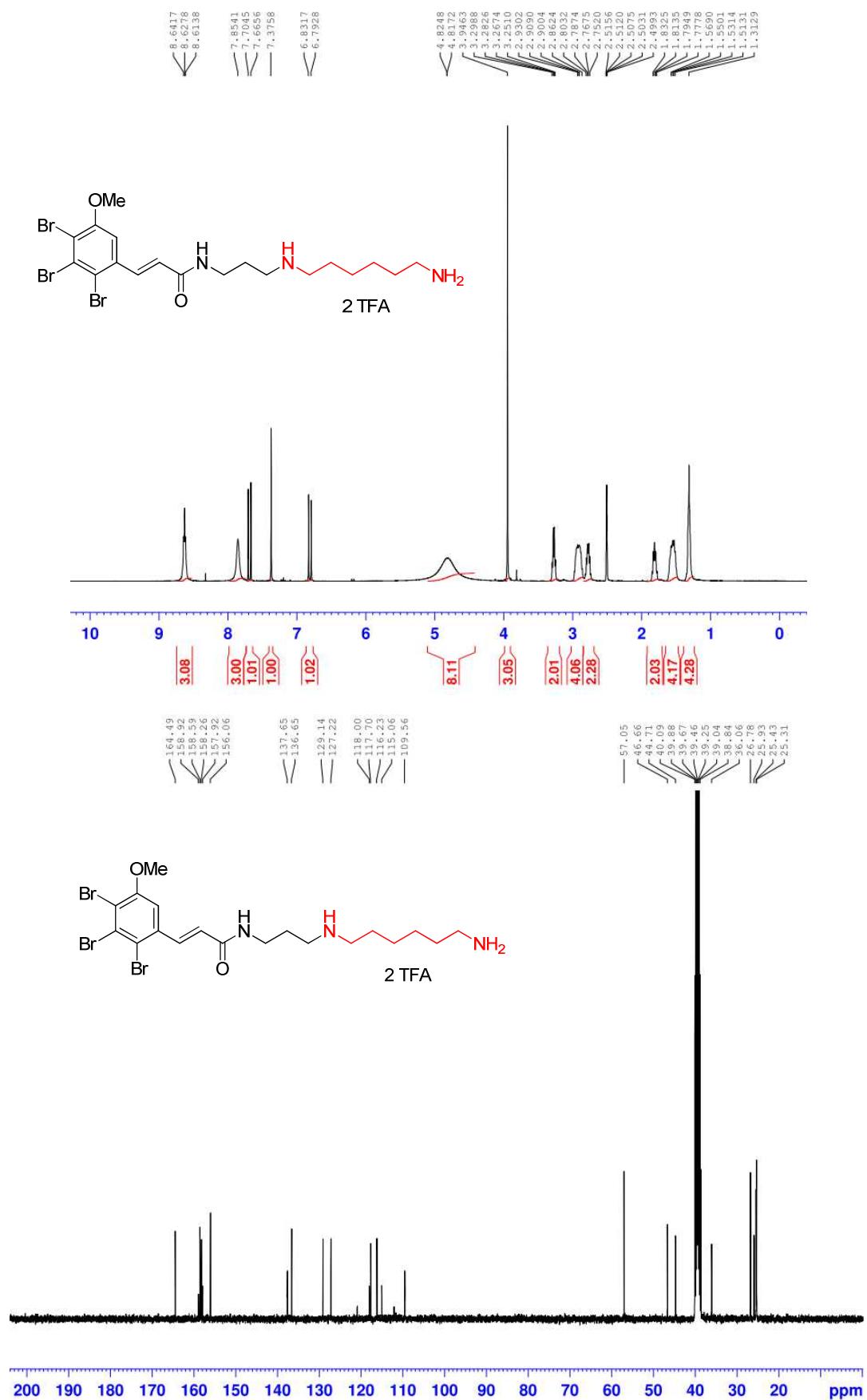
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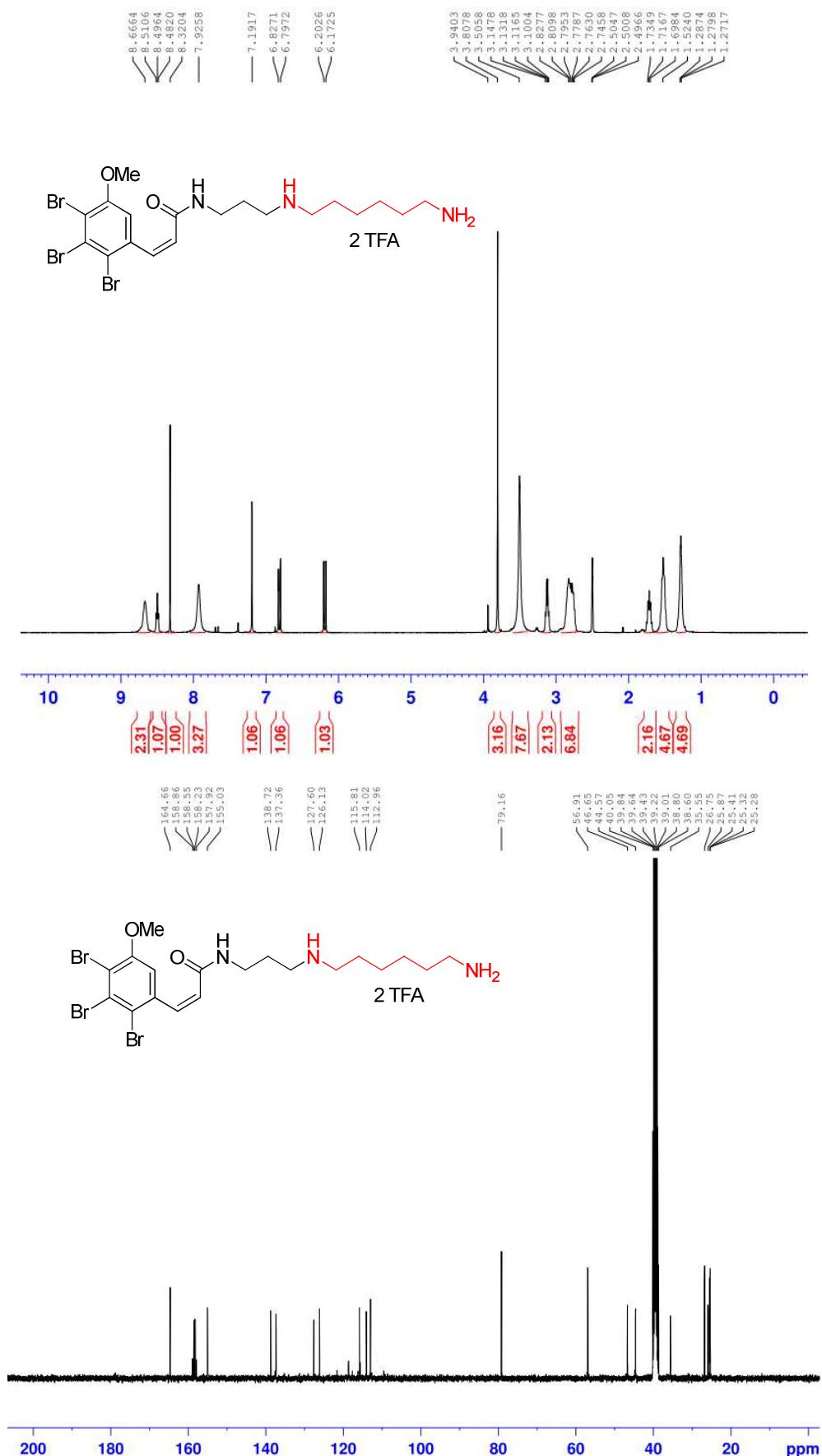
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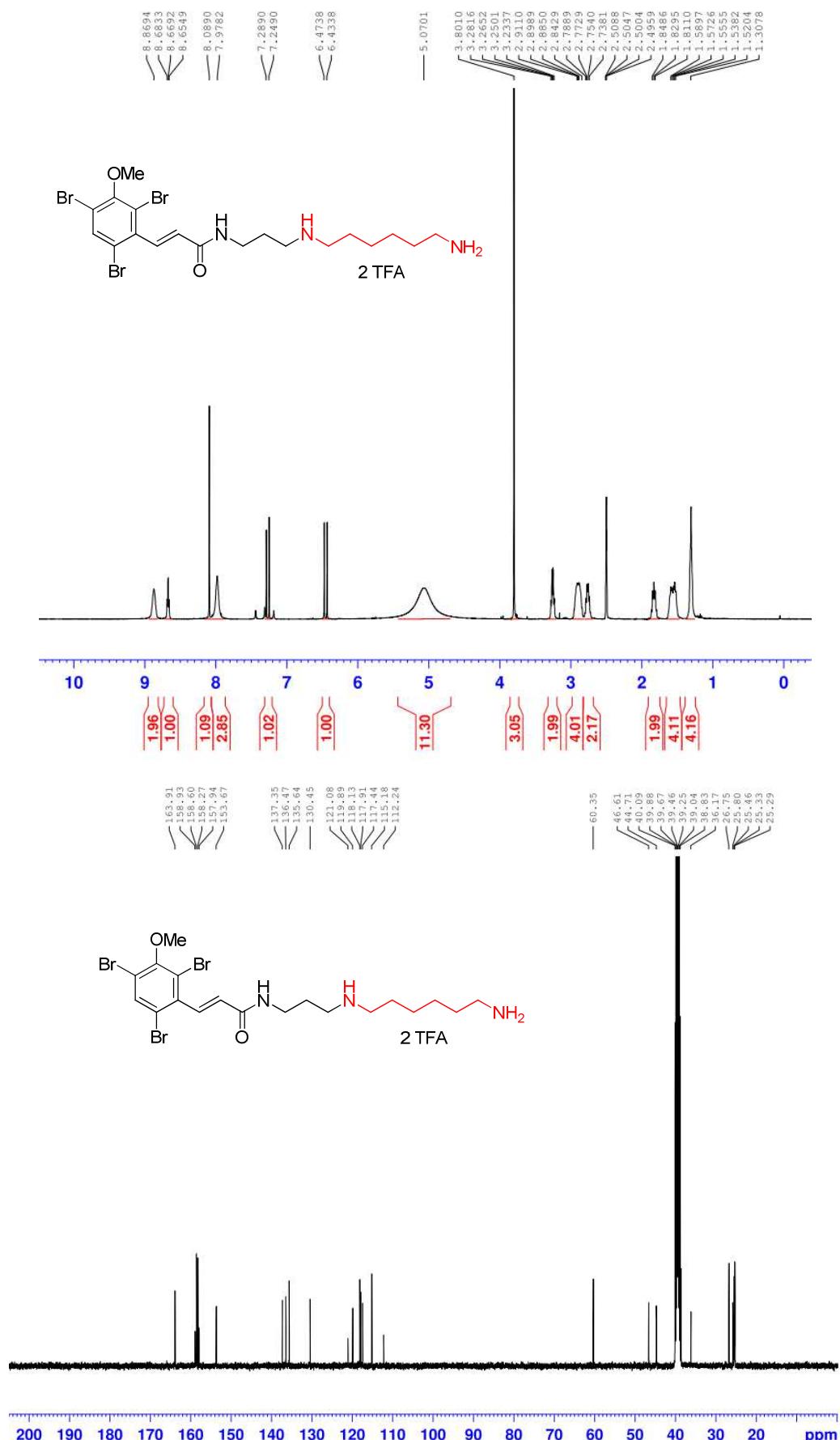
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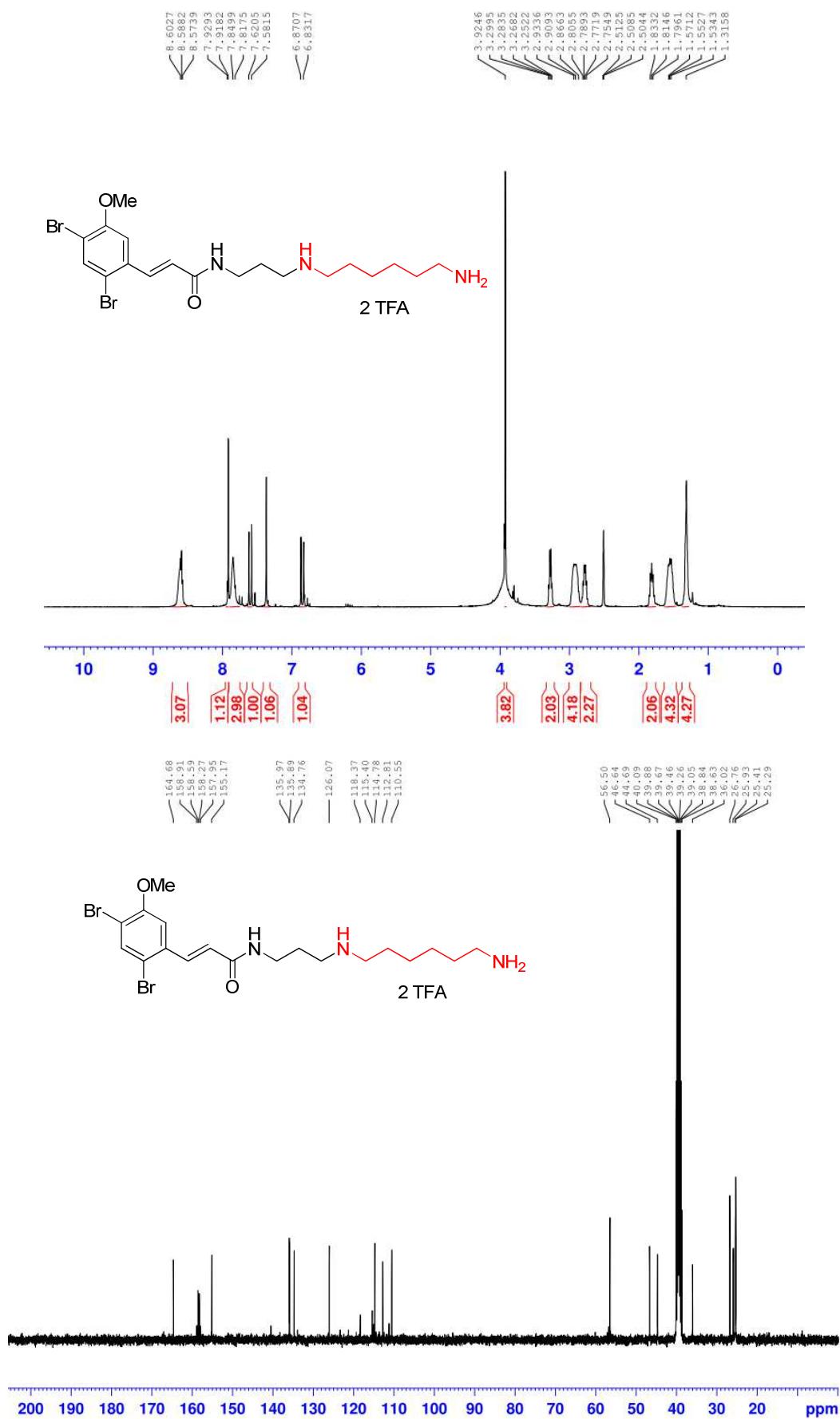
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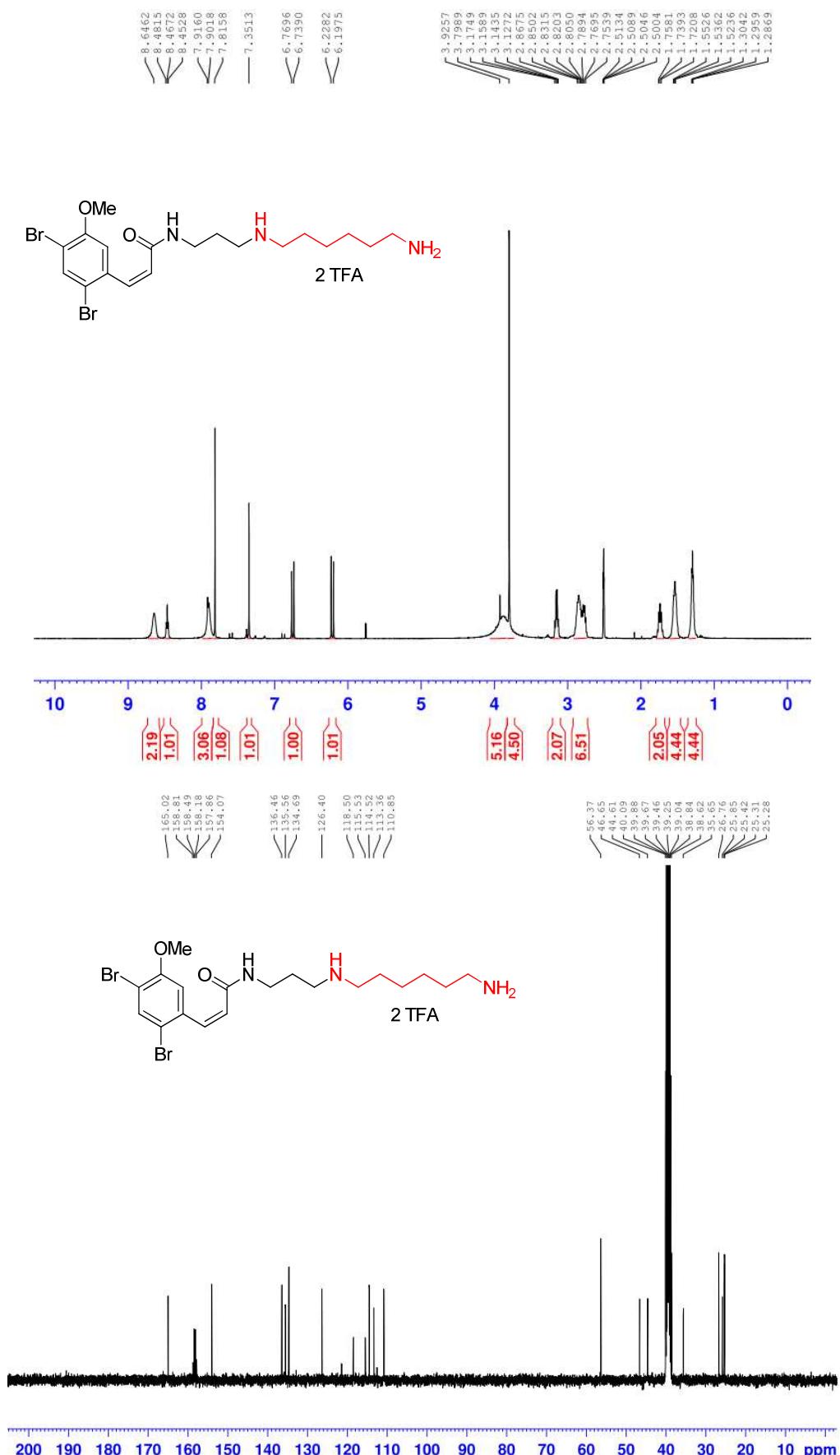
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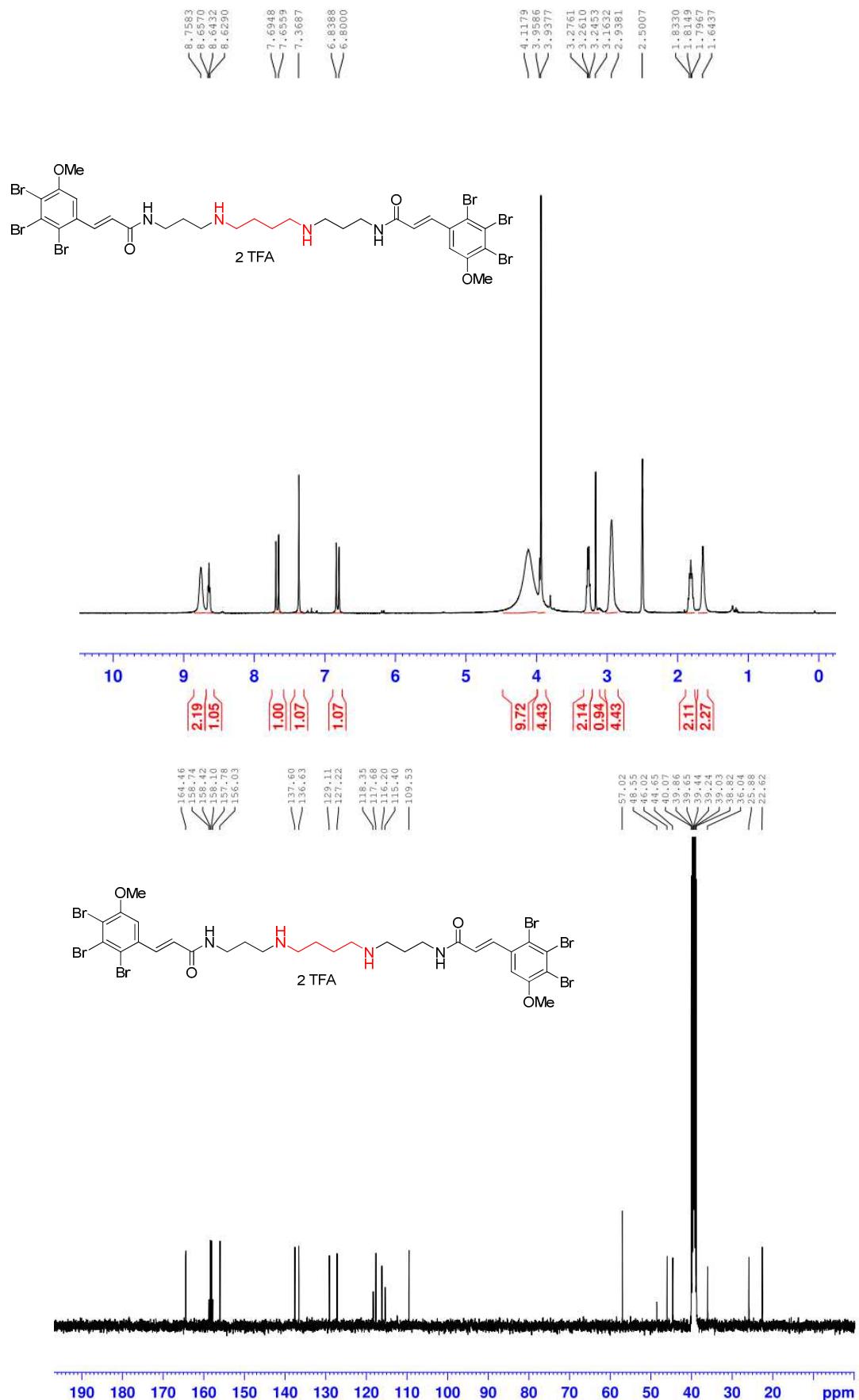
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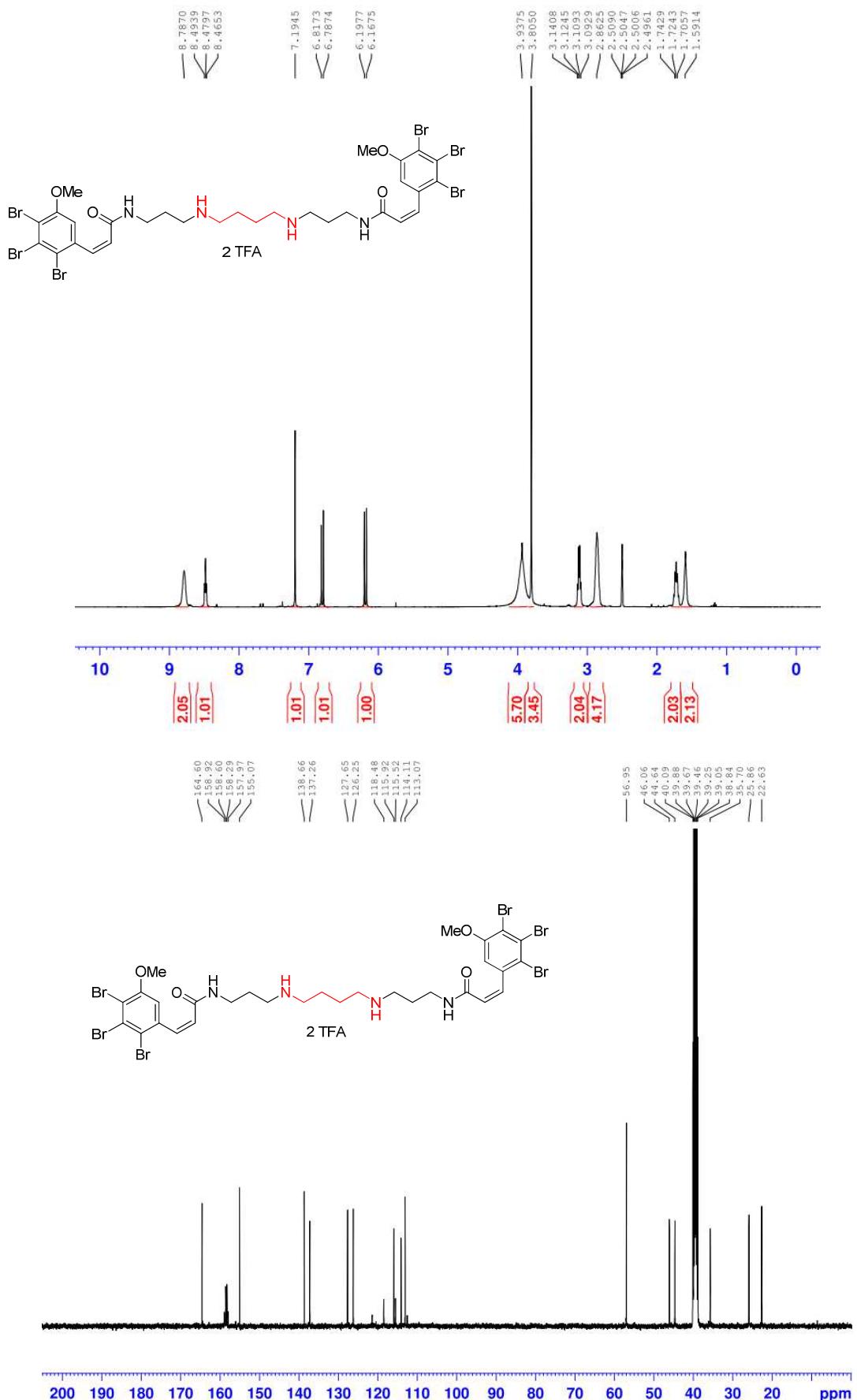
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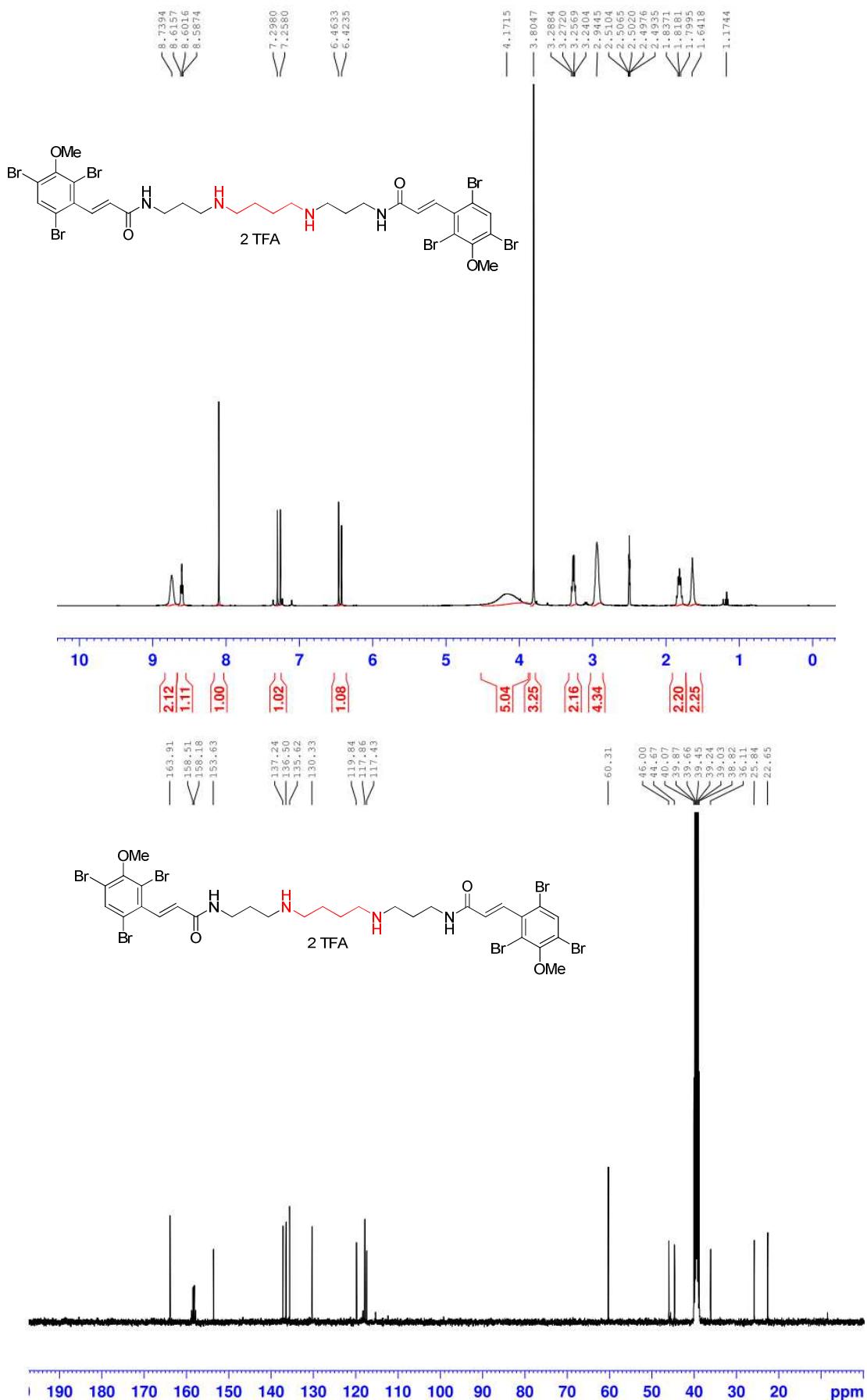
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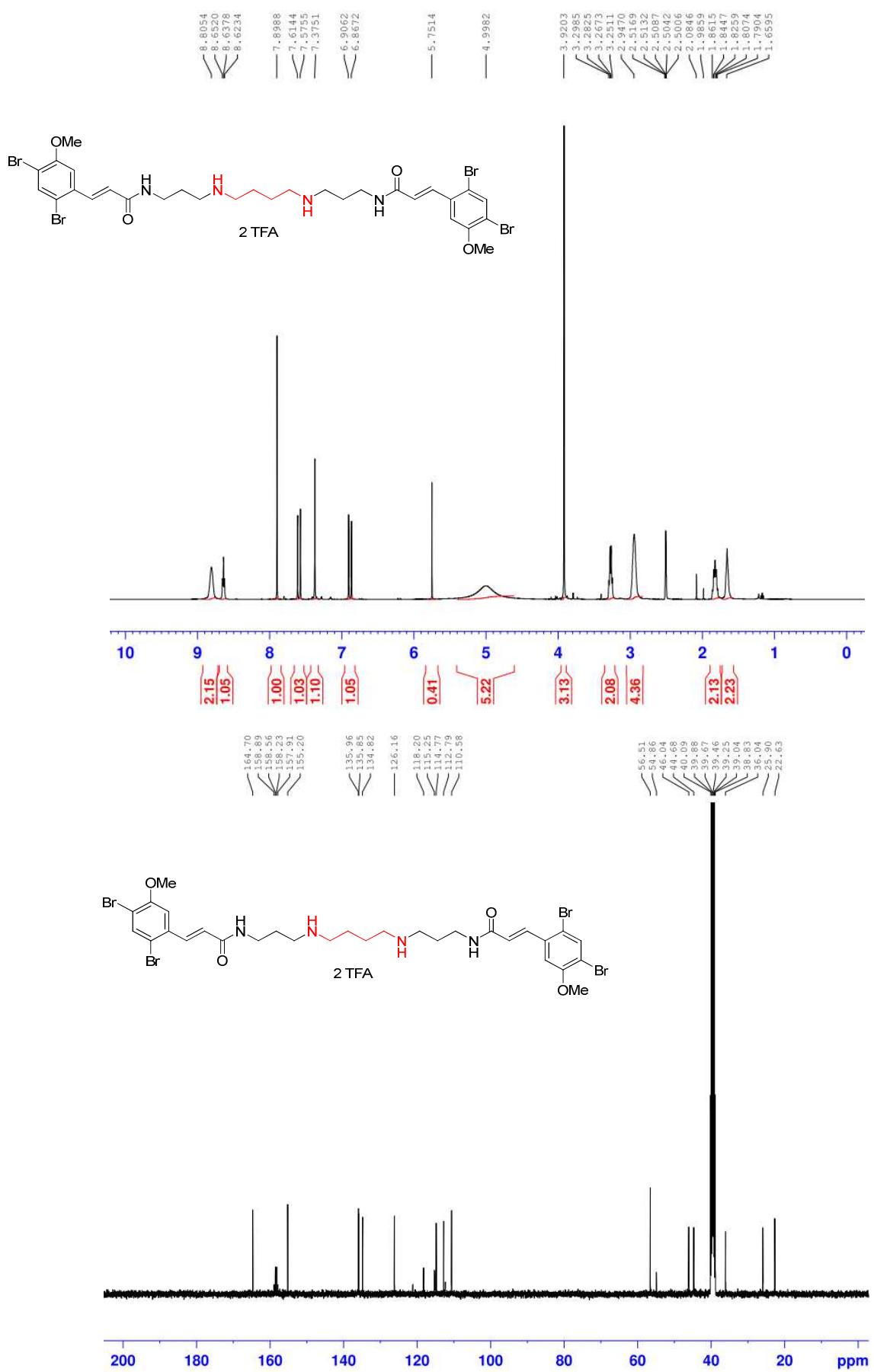
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¹H NMR (400 MHz) and ¹³C NMR (100 MHz) of 45 in DMSO-*d*₆

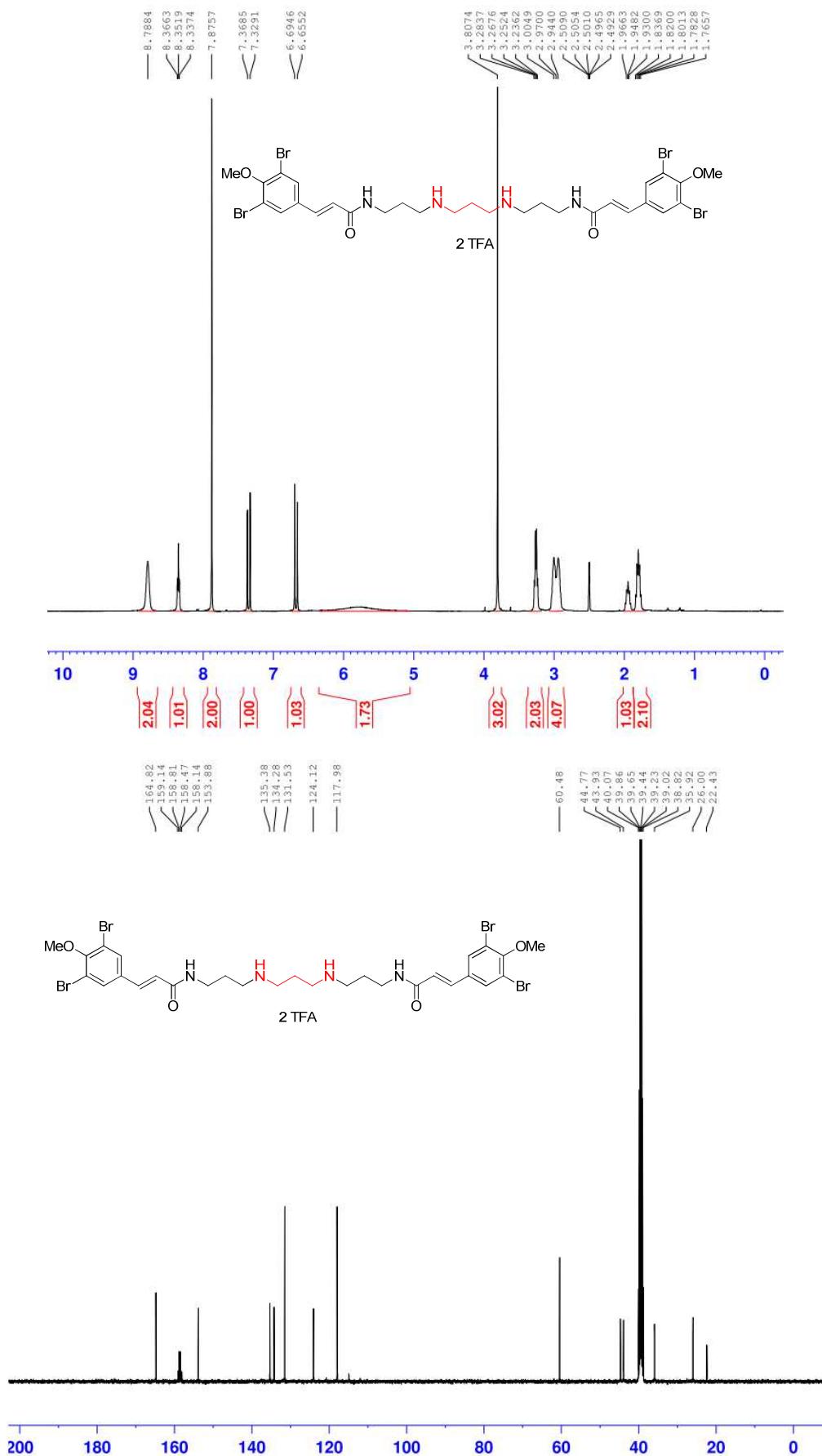


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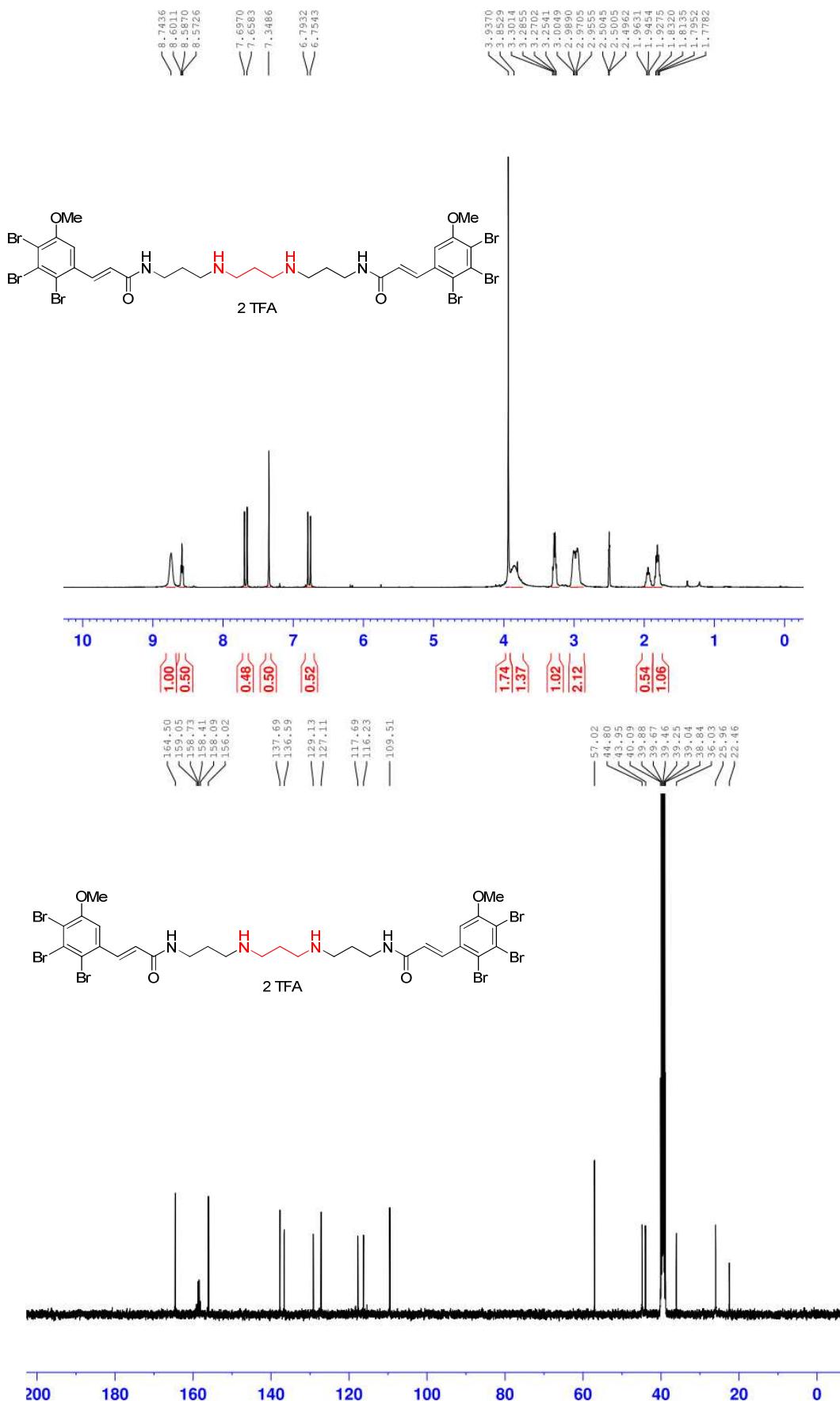


S50

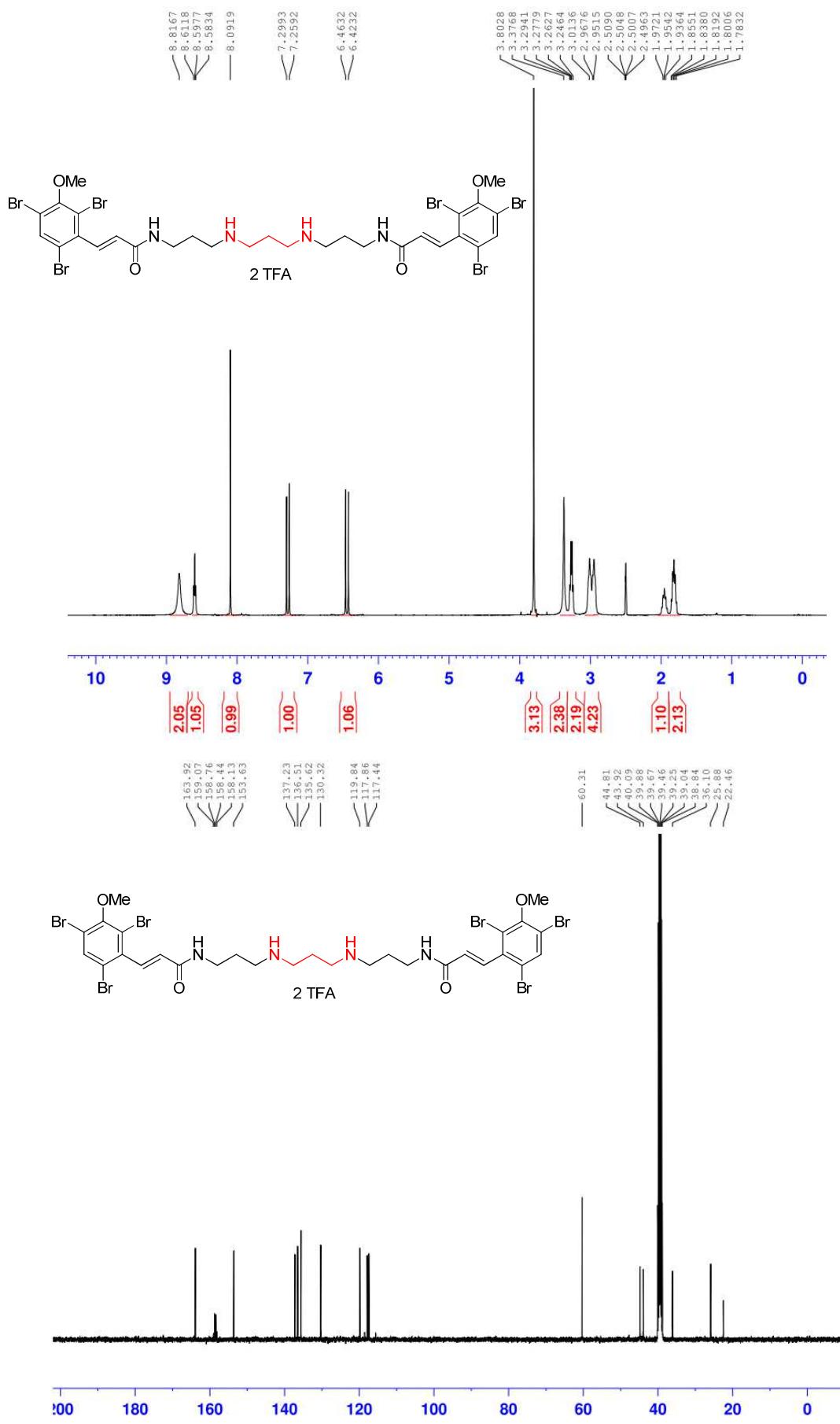
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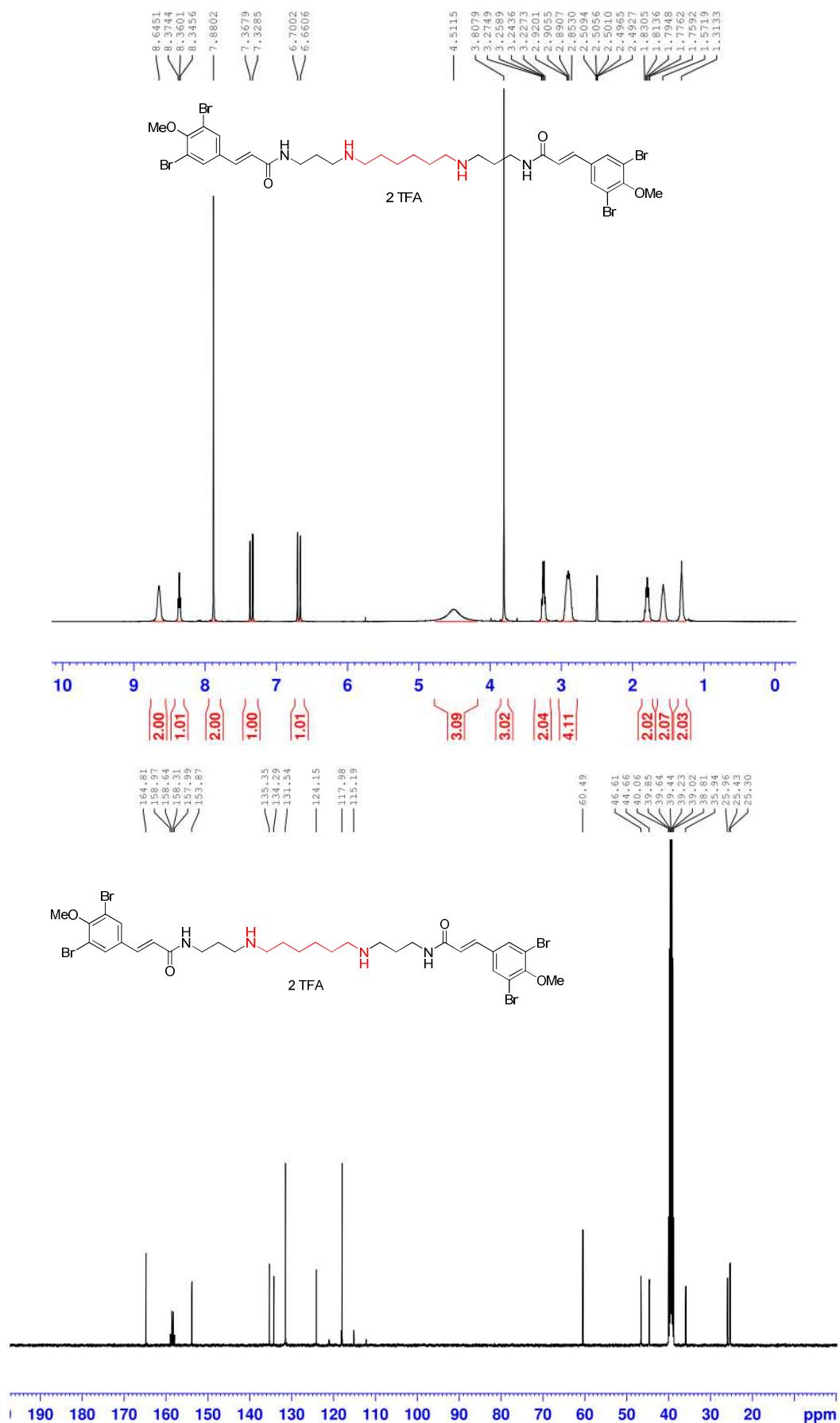
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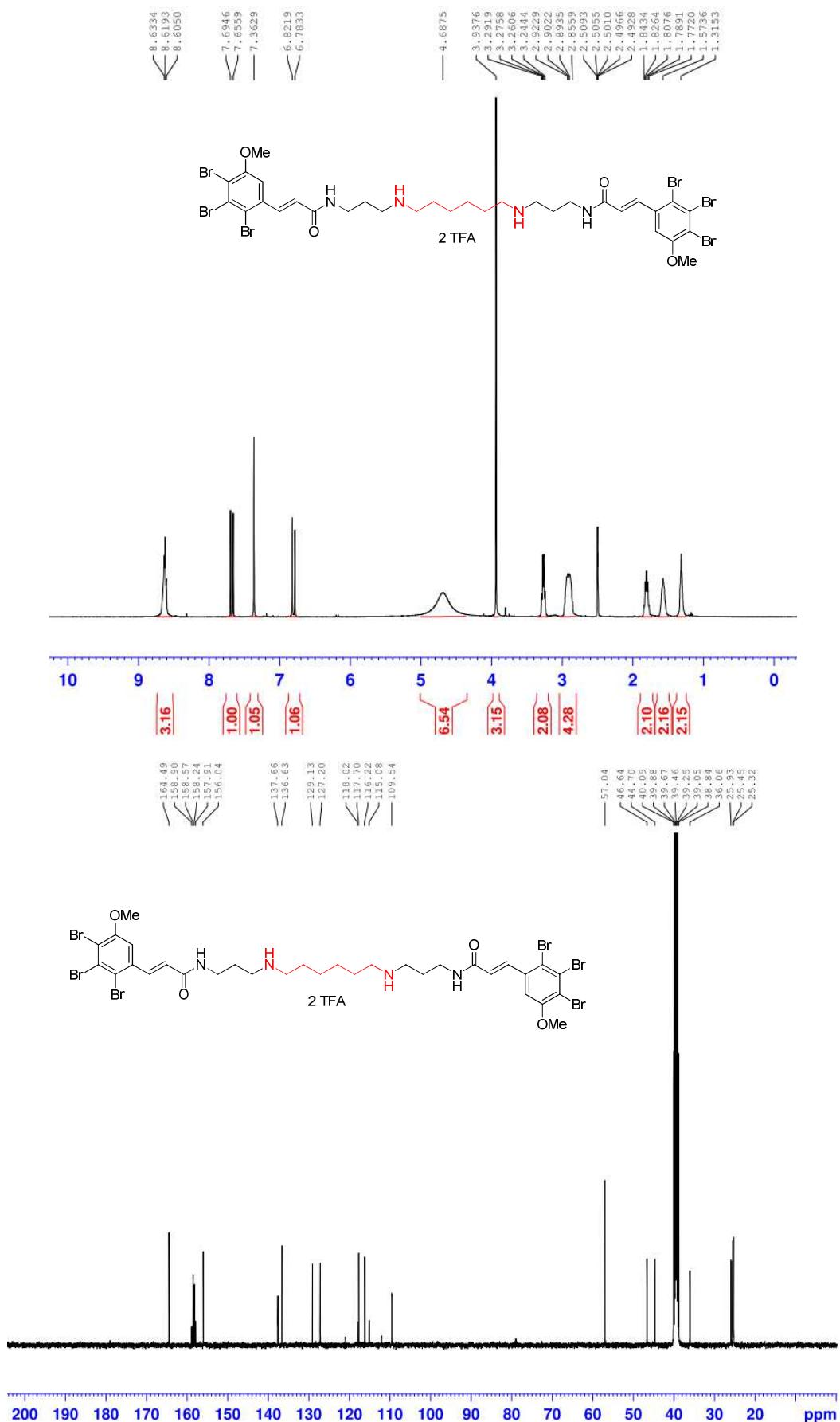
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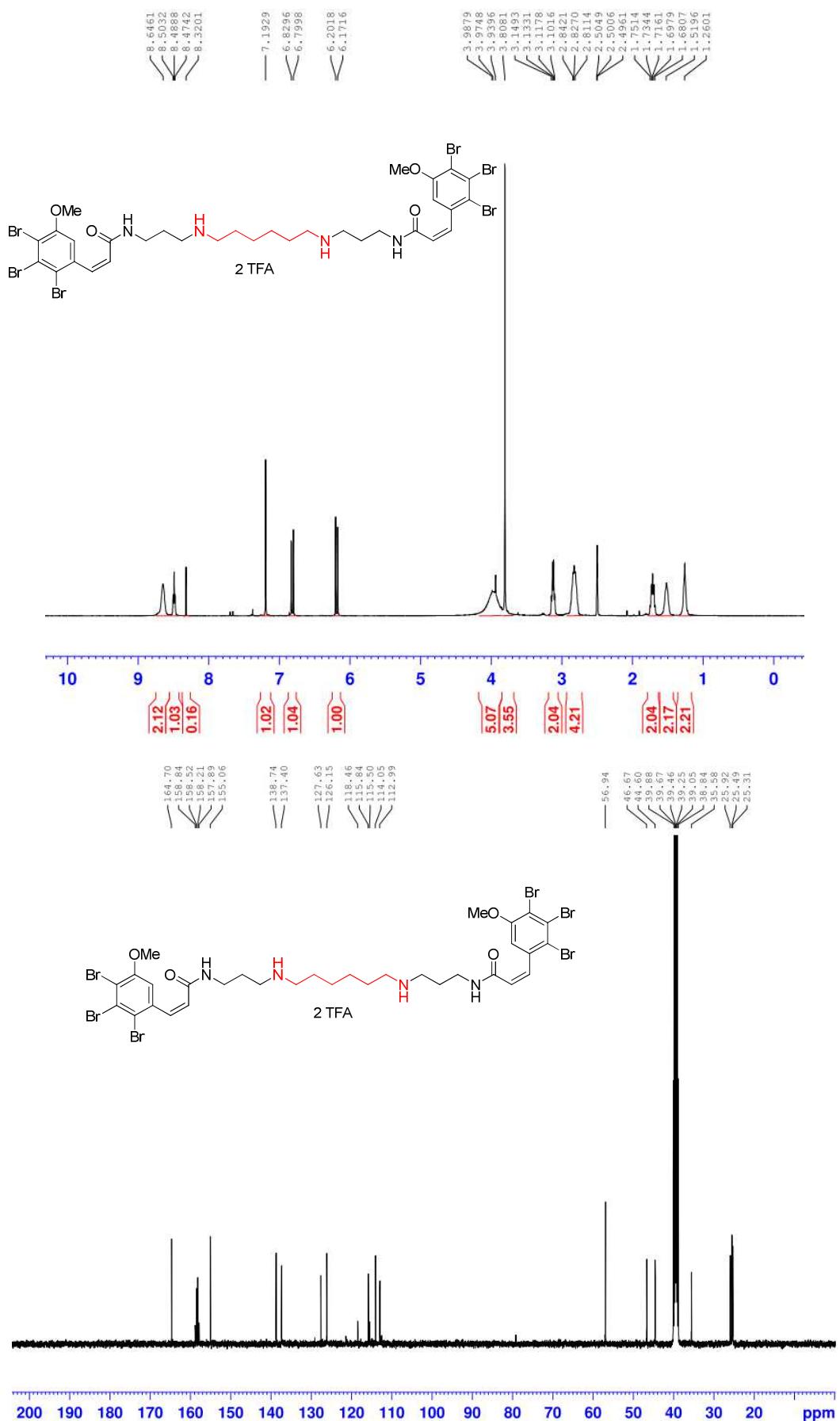
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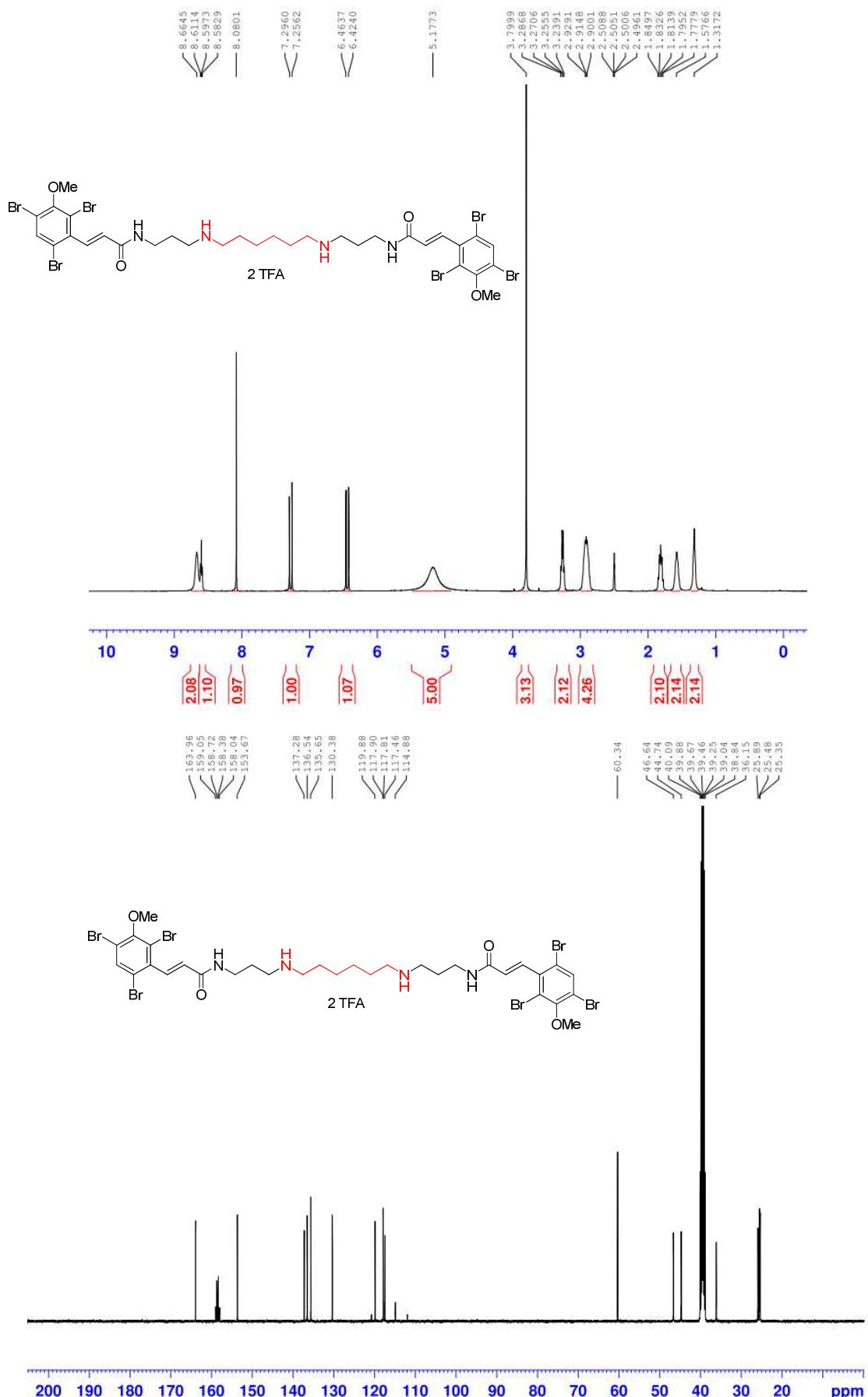
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¹H NMR (400 MHz) and ¹³C NMR (100 MHz) of 52 in DMSO-*d*₆



¹H NMR (400 MHz) and ¹³C NMR (100 MHz) of 53 in DMSO-d₆

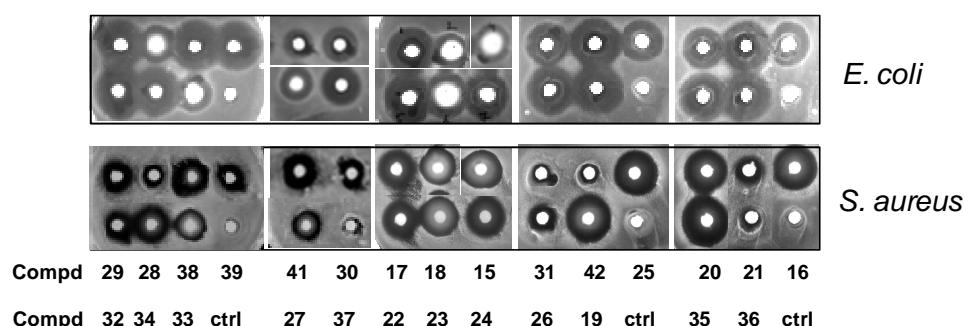


Antibacterial property of ianthelliformisamines analogues:

A. Disc diffusion assay. The representative plates showing response to several compounds. Paper discs containing 50 µg test samples dissolved in DMSO were applied to the surface of the nutrient agar plate containing *E. coli*. Clear zone around each disc indicates sensitivity of bacteria to the test compound.

B. Time-kill assay for cell survival. *E. coli* and *S. aureus* cells were treated with 2 × MIC of each compound for 4 h and allowed to grow on nutrient agar plate. Cell growth was compared between untreated sample (top panel) and treated sample (bottom panel) to determine bacterial cell viability.

A



B

