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SUPPLEMENTARY INFORMATION

Solvent-Mediated Switching Between Oxidative Addition and Addition-Oxidation: Access to β-Hydroxysulfides and β-Arylsulfones by Addition of Thiols to Olefins in the Presence of Oxone

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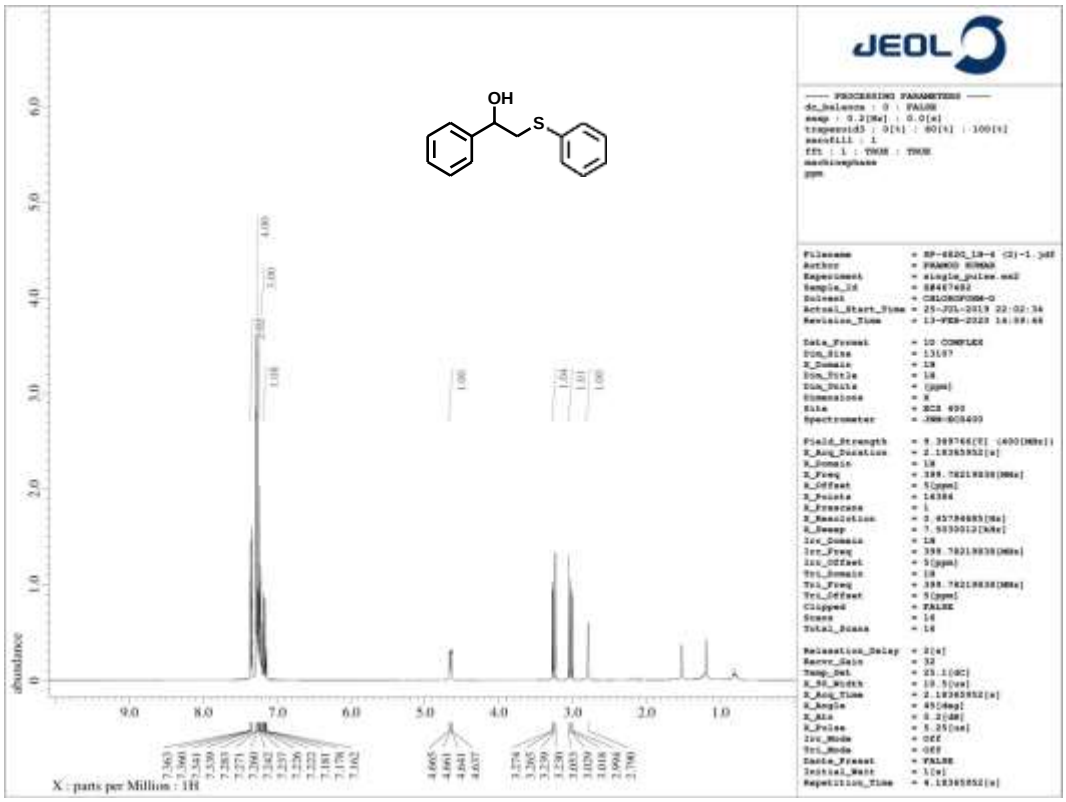


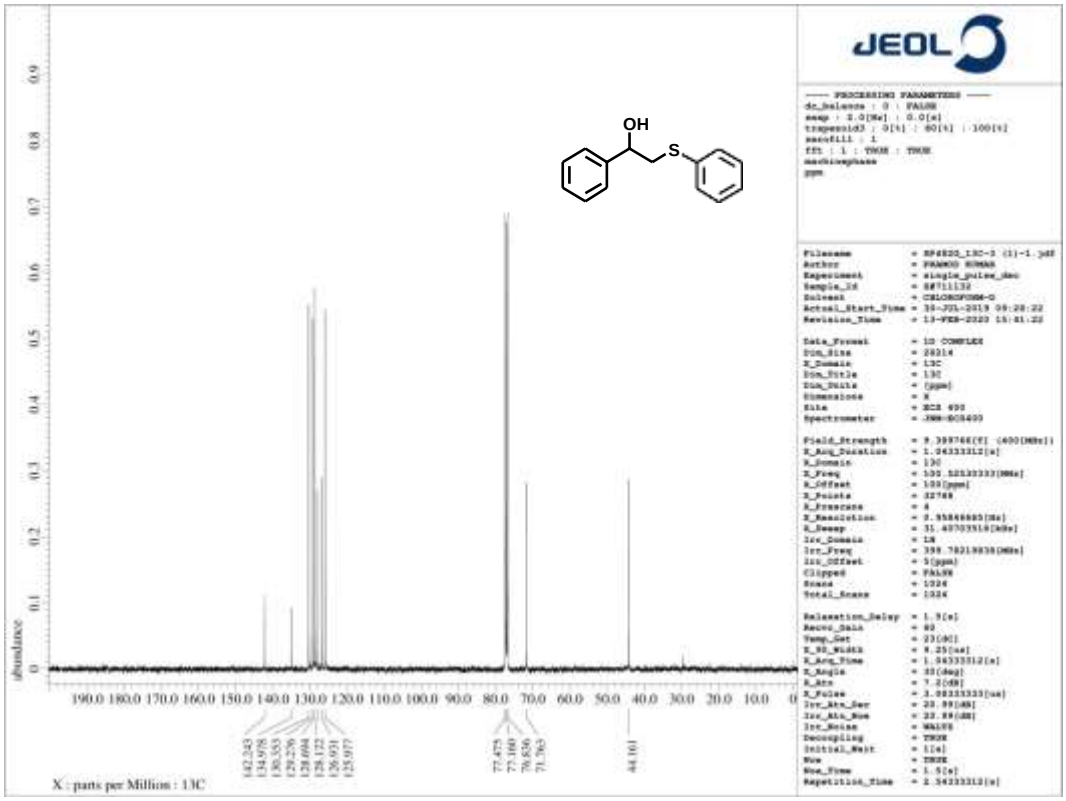


Figure S1.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **3a.**

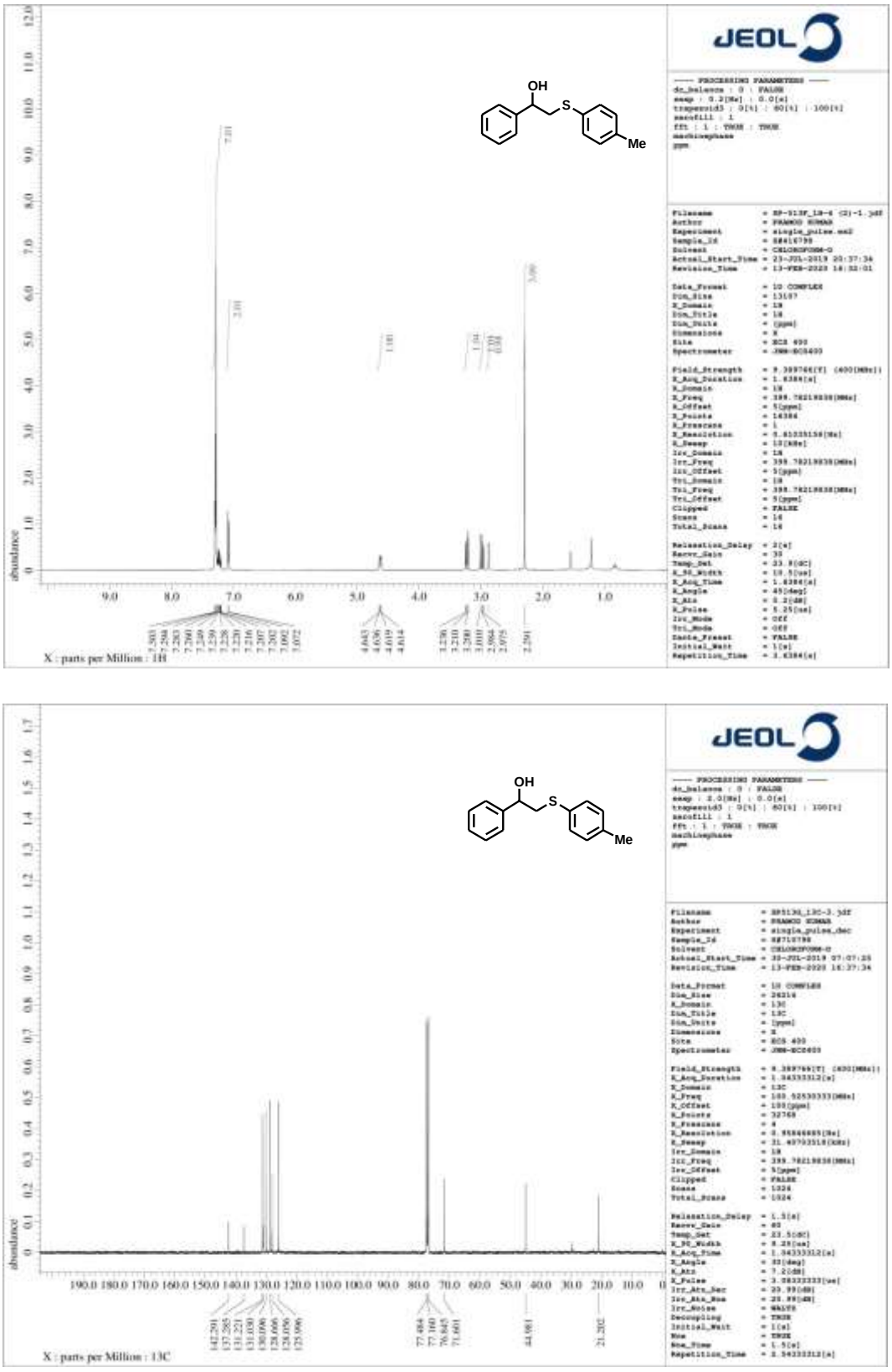


Figure S2.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **3b.**

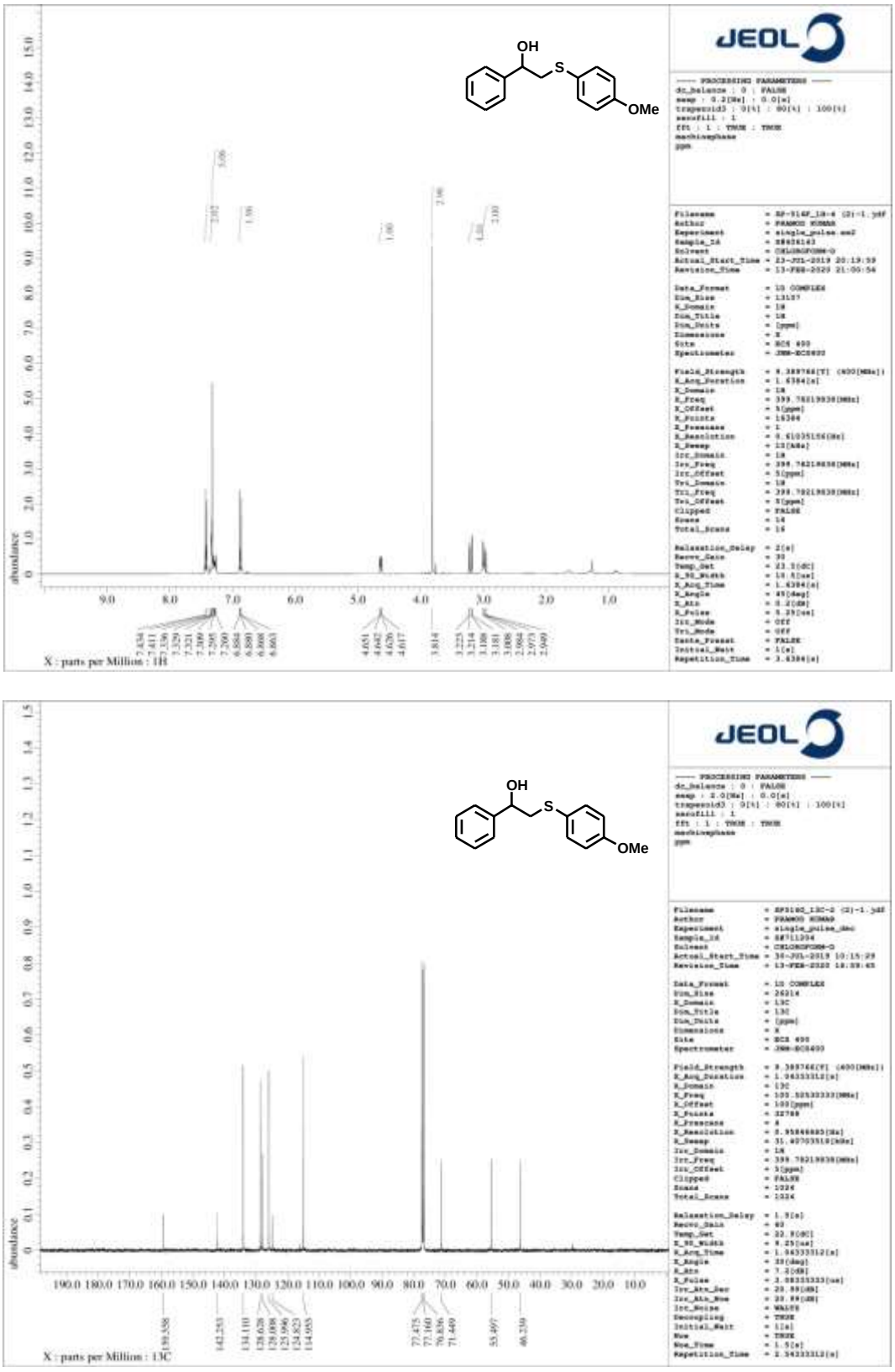


Figure S3.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **3c.**

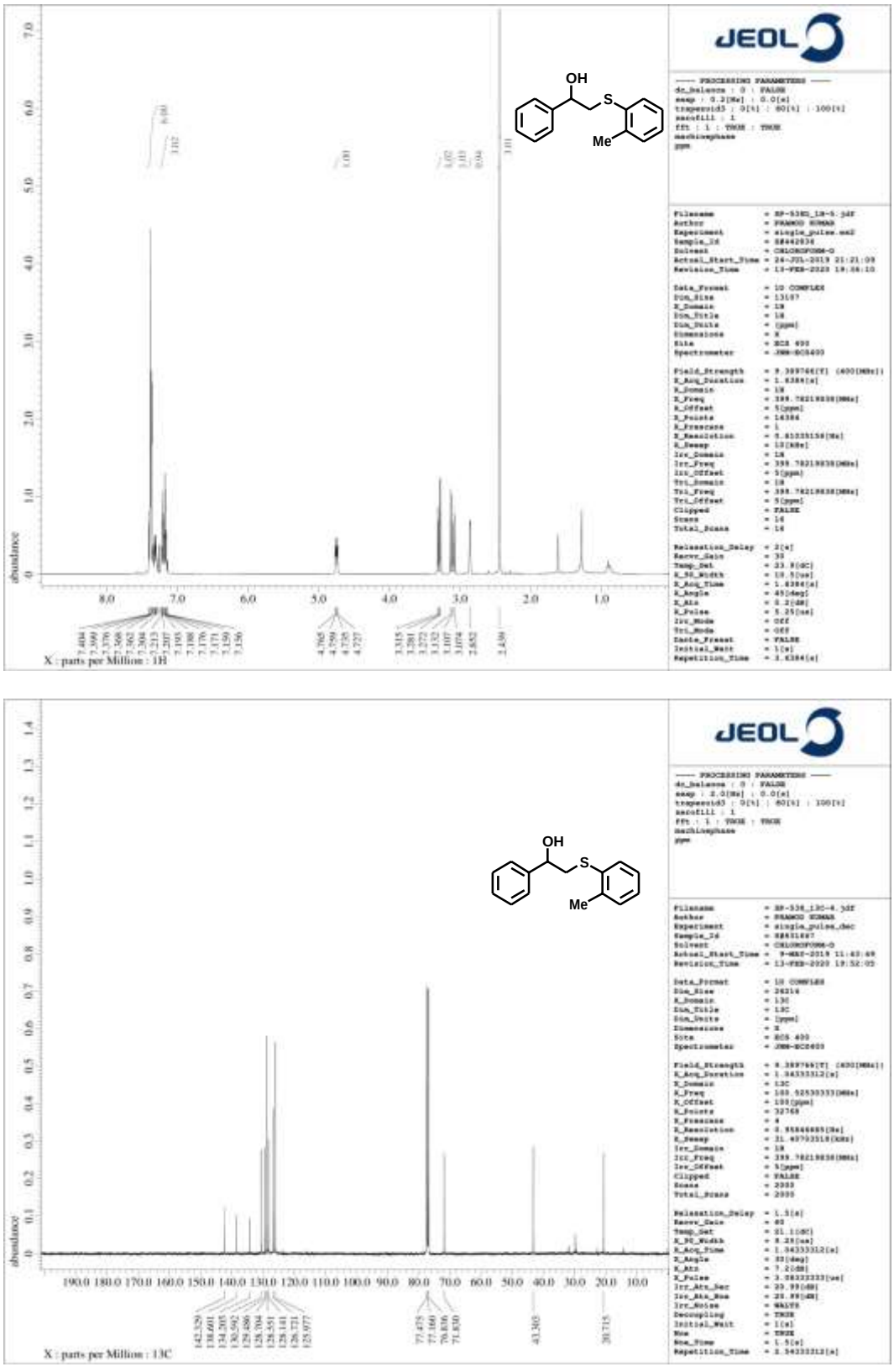


Figure S4.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **3d.**

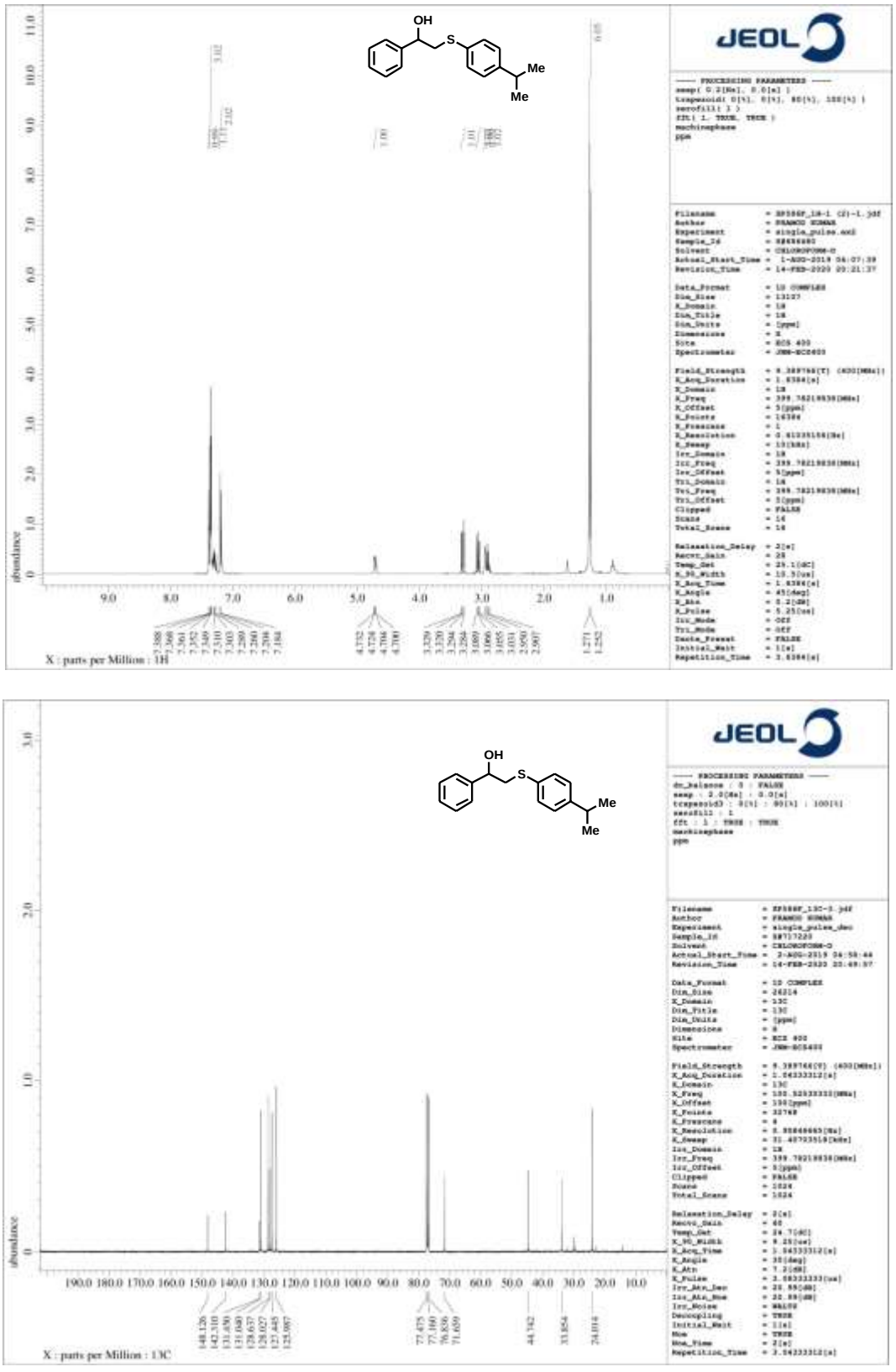


Figure S5.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **3e.**

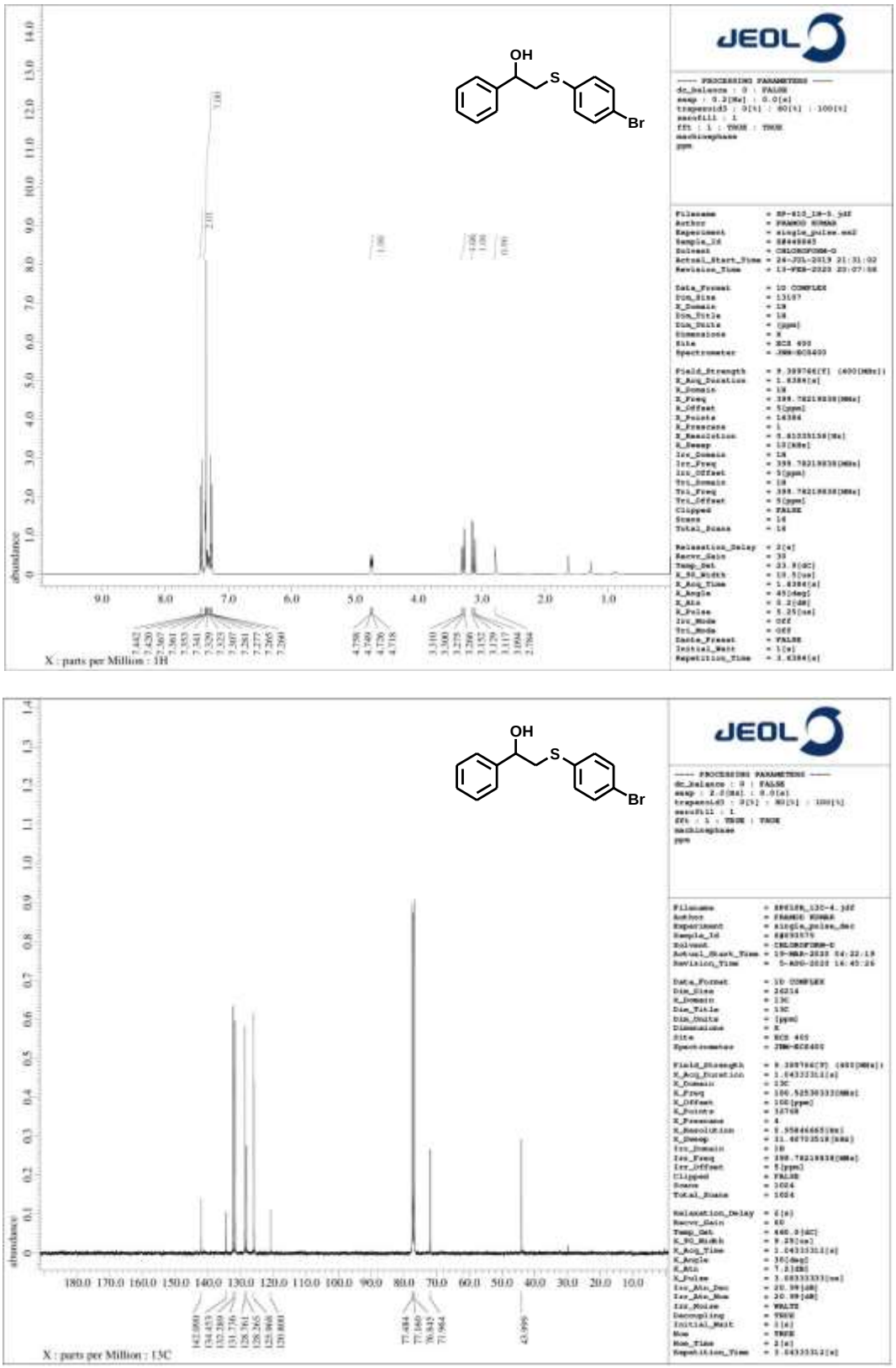
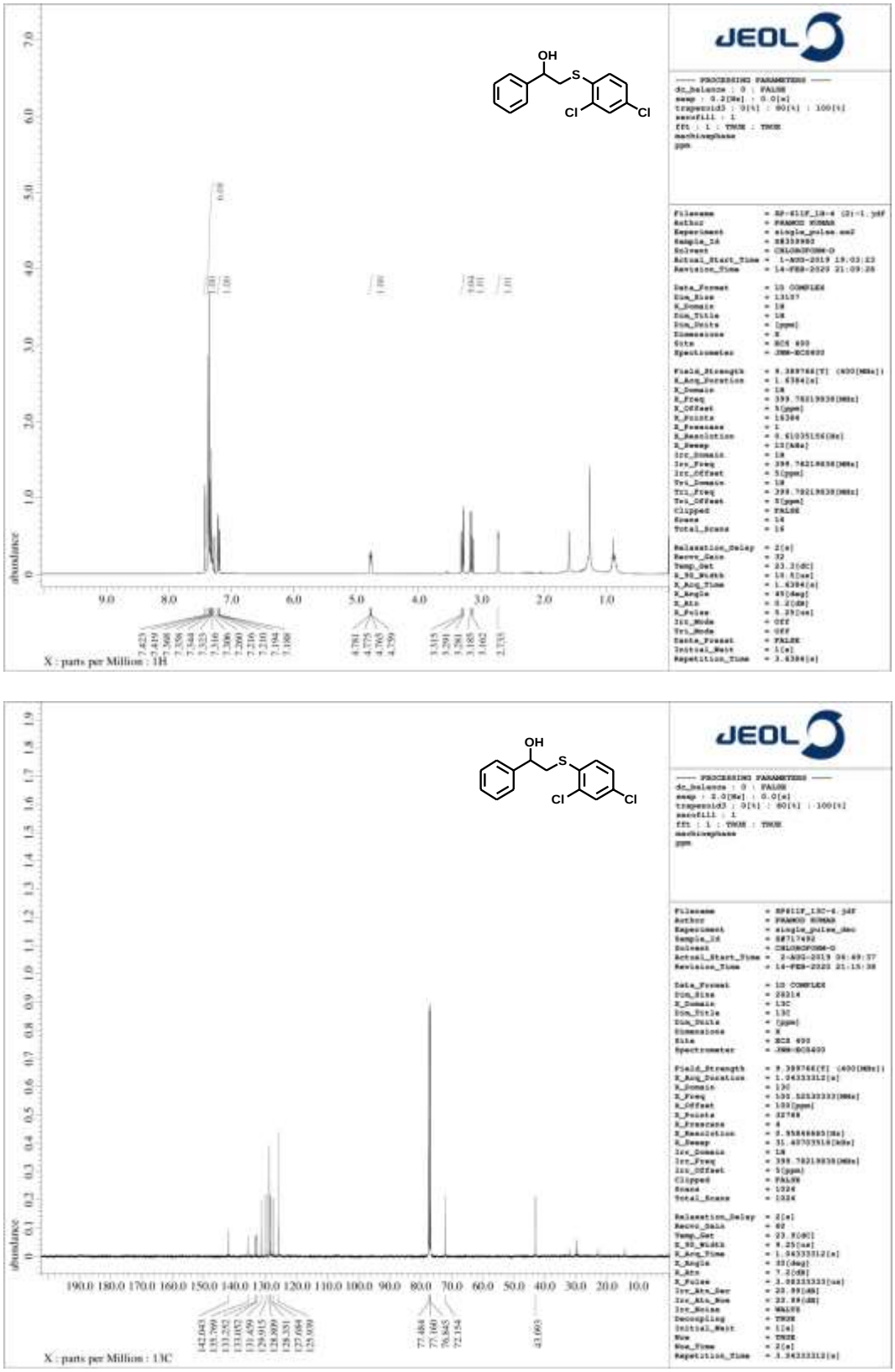


Figure S6. ^{1}H NMR (400 MHz, $CDCl_3$) and ^{13}C NMR (100 MHz, $CDCl_3$) spectra of **3f.**



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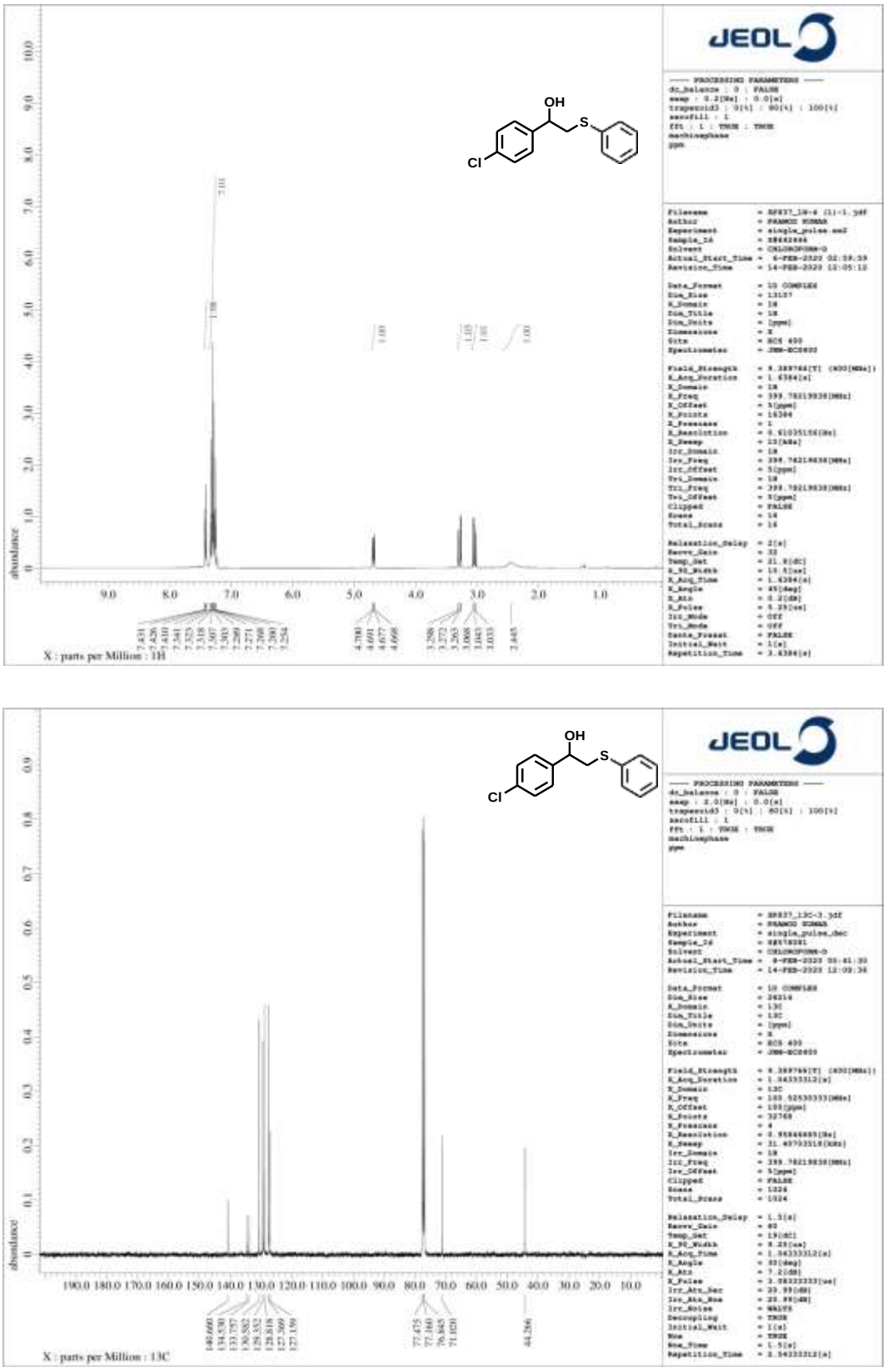

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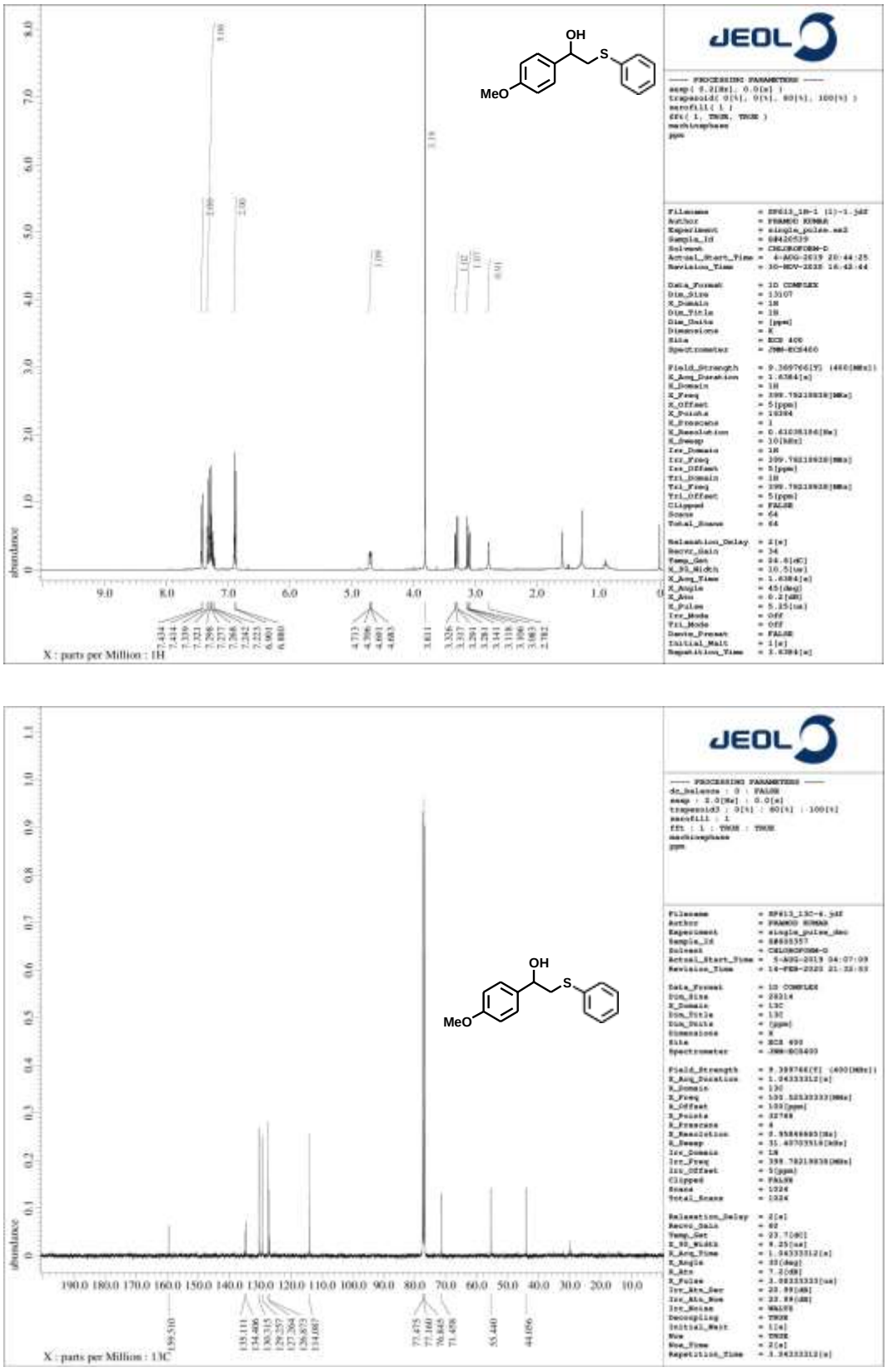

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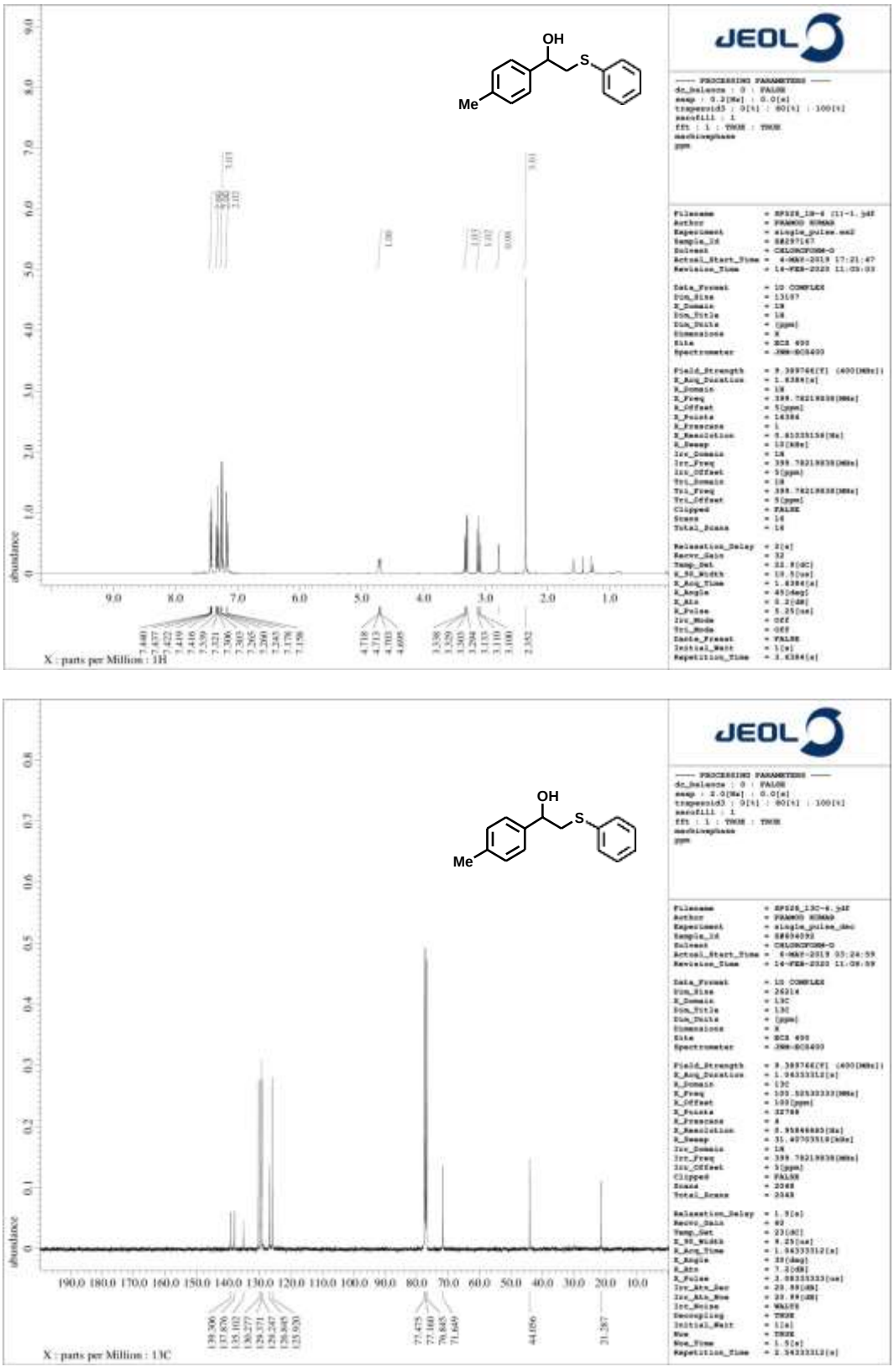

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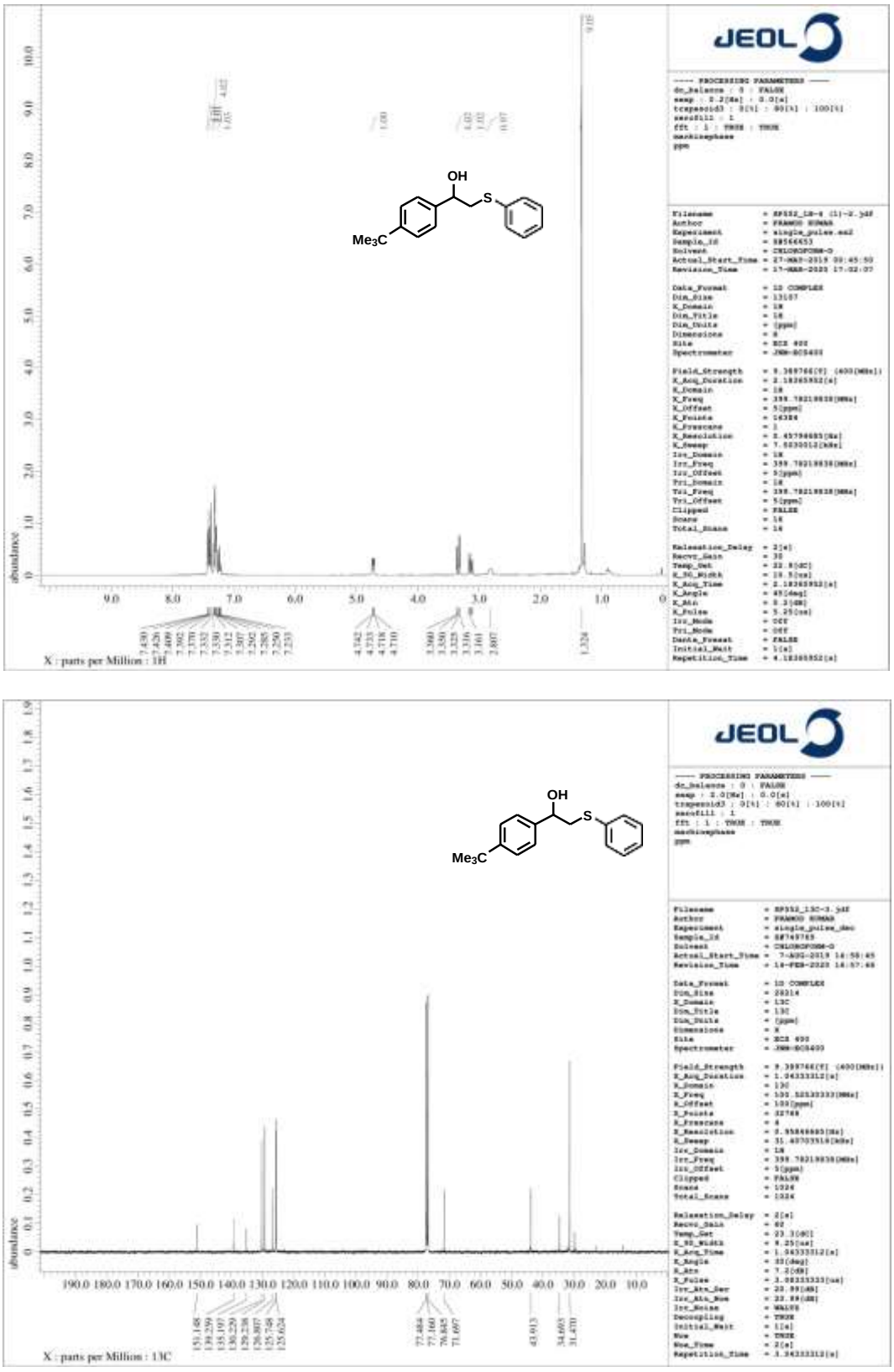

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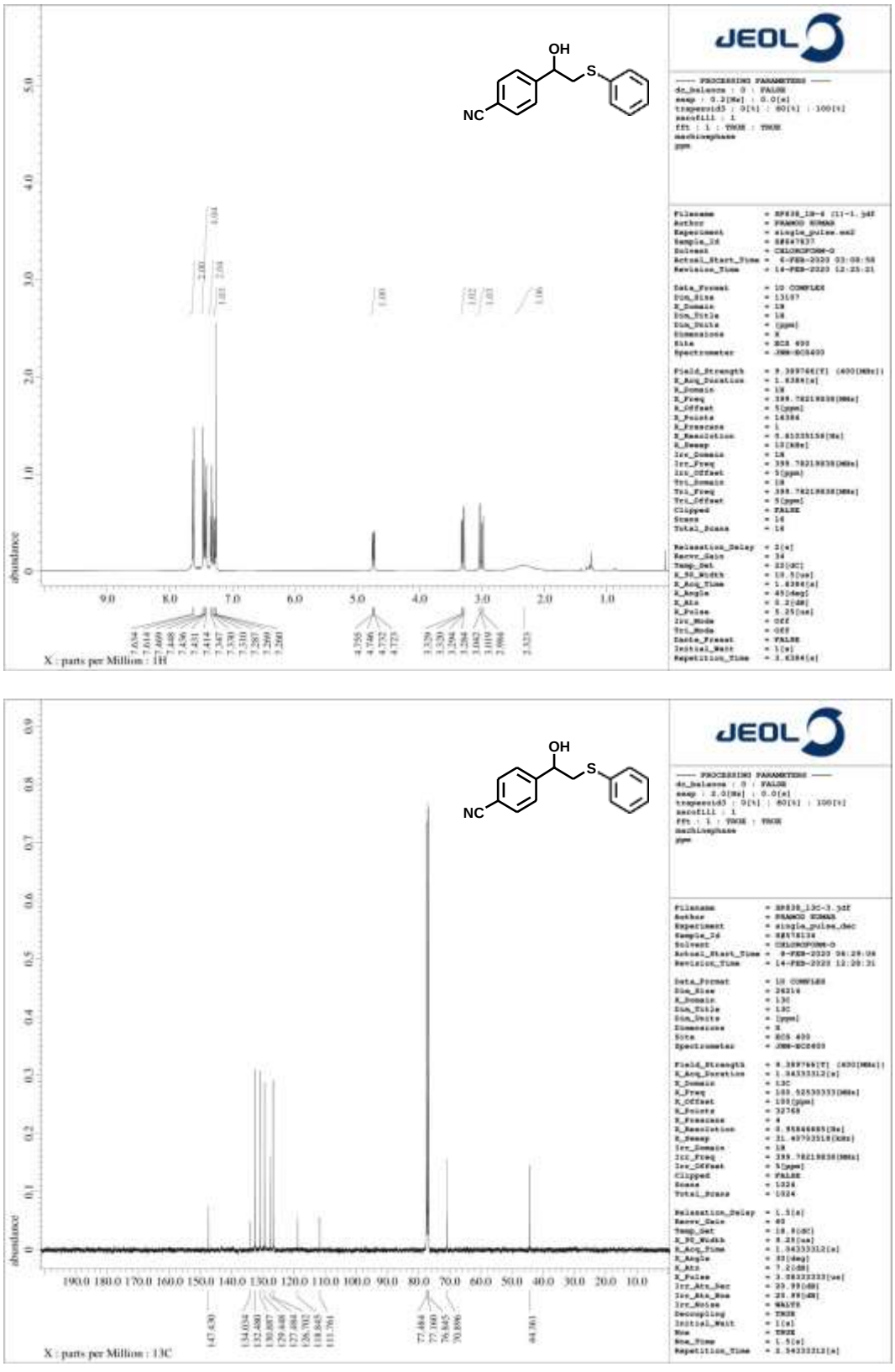
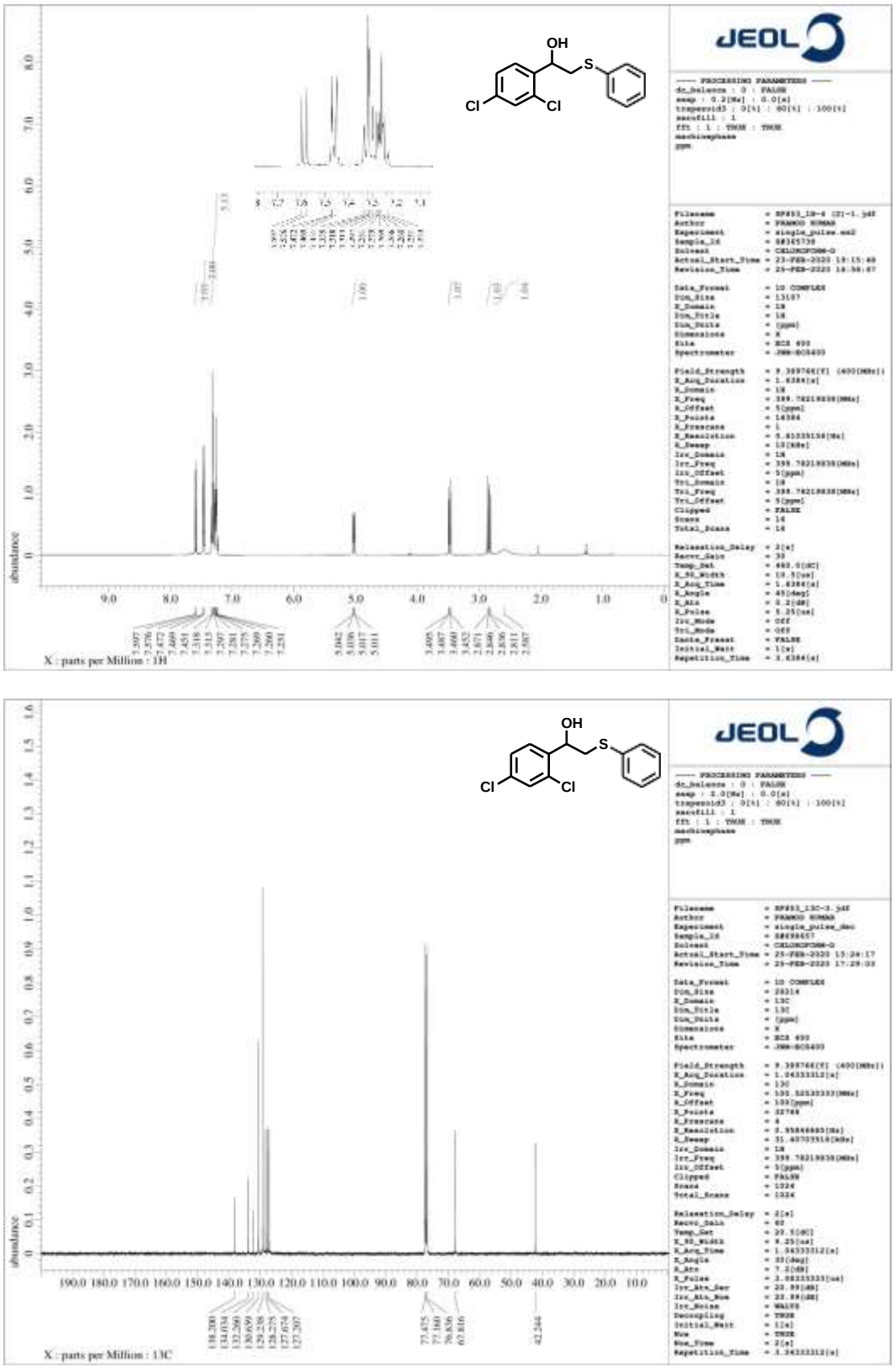


Figure S12.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **3m.**



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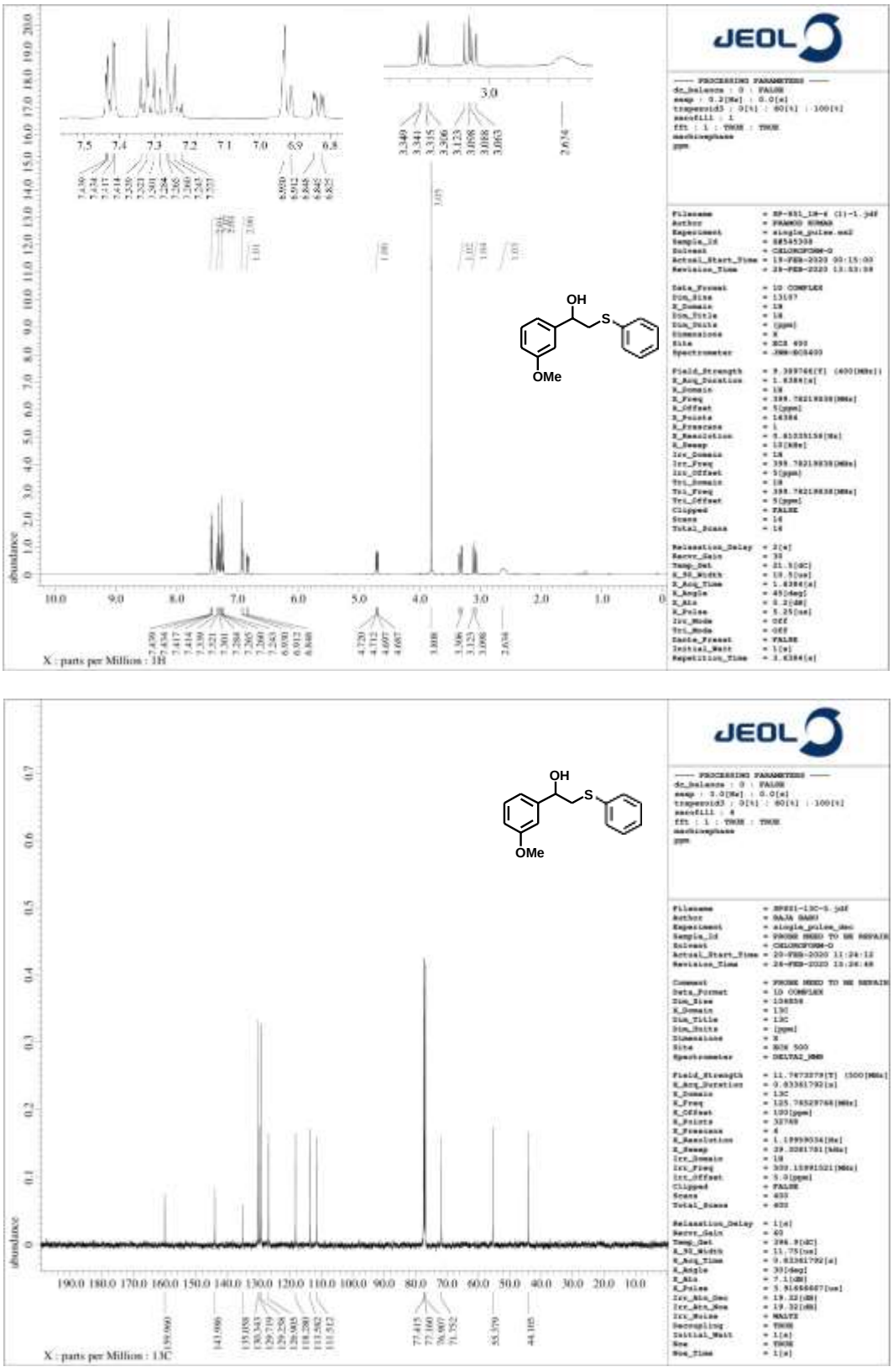

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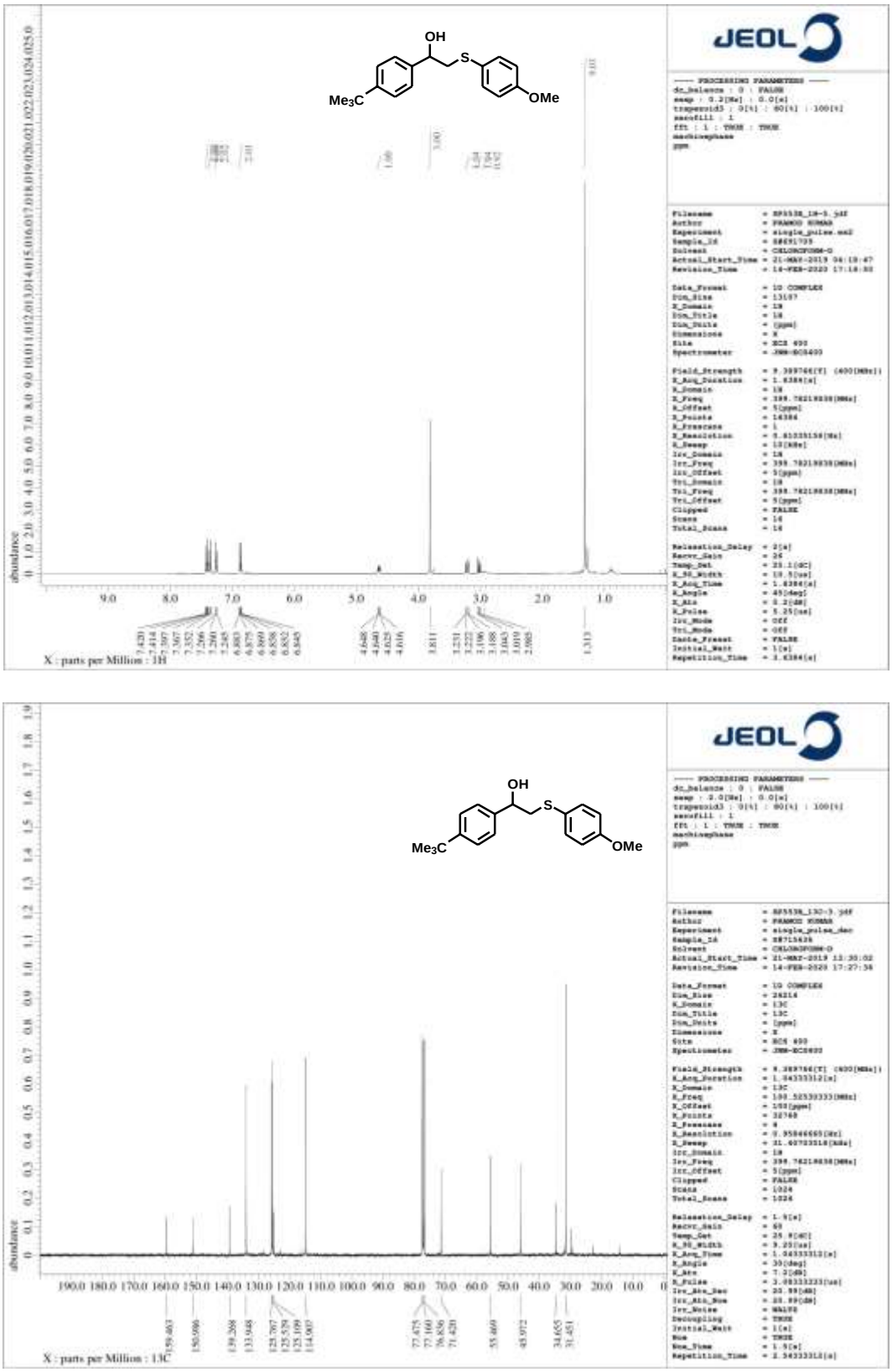

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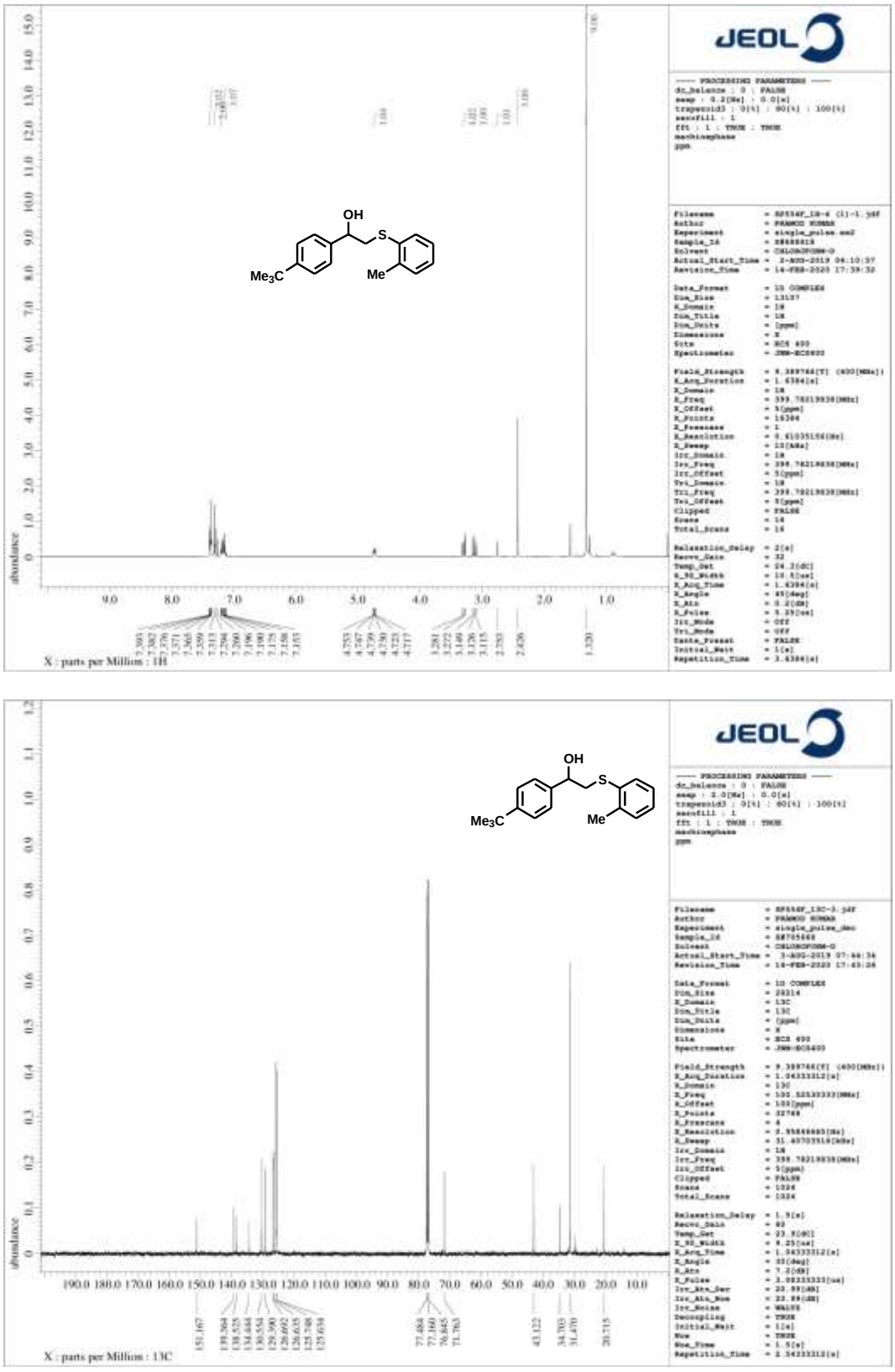

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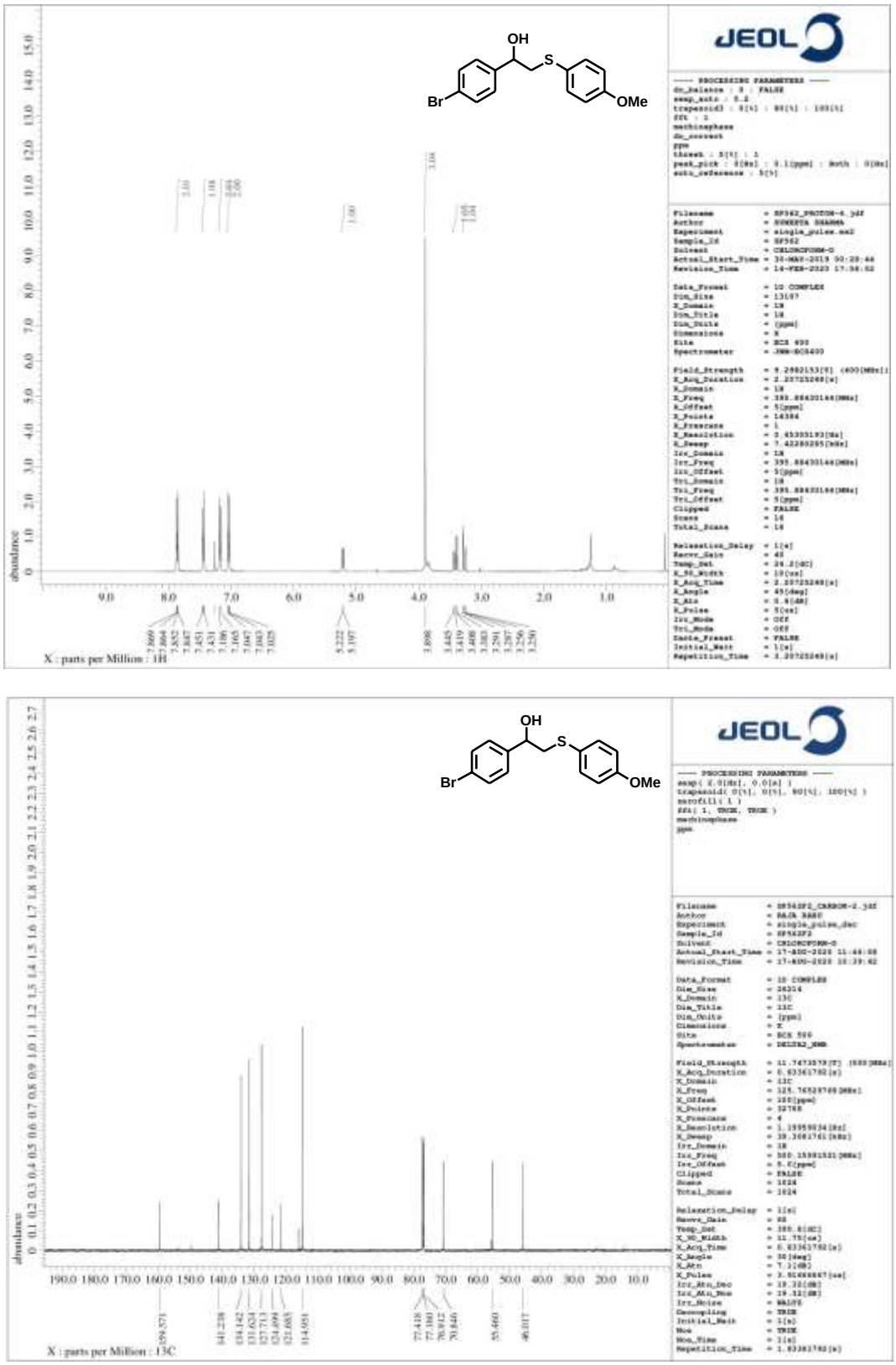

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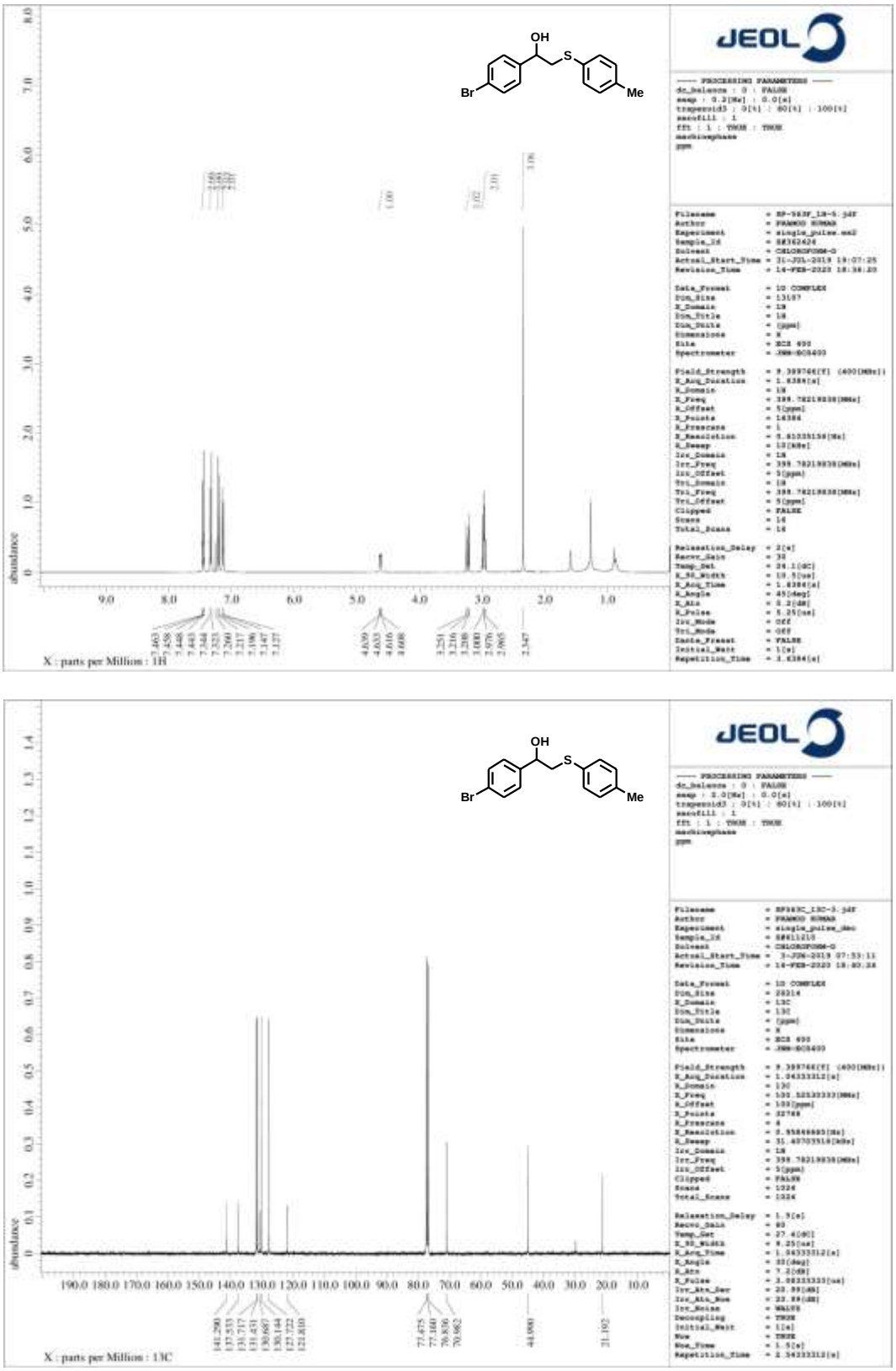

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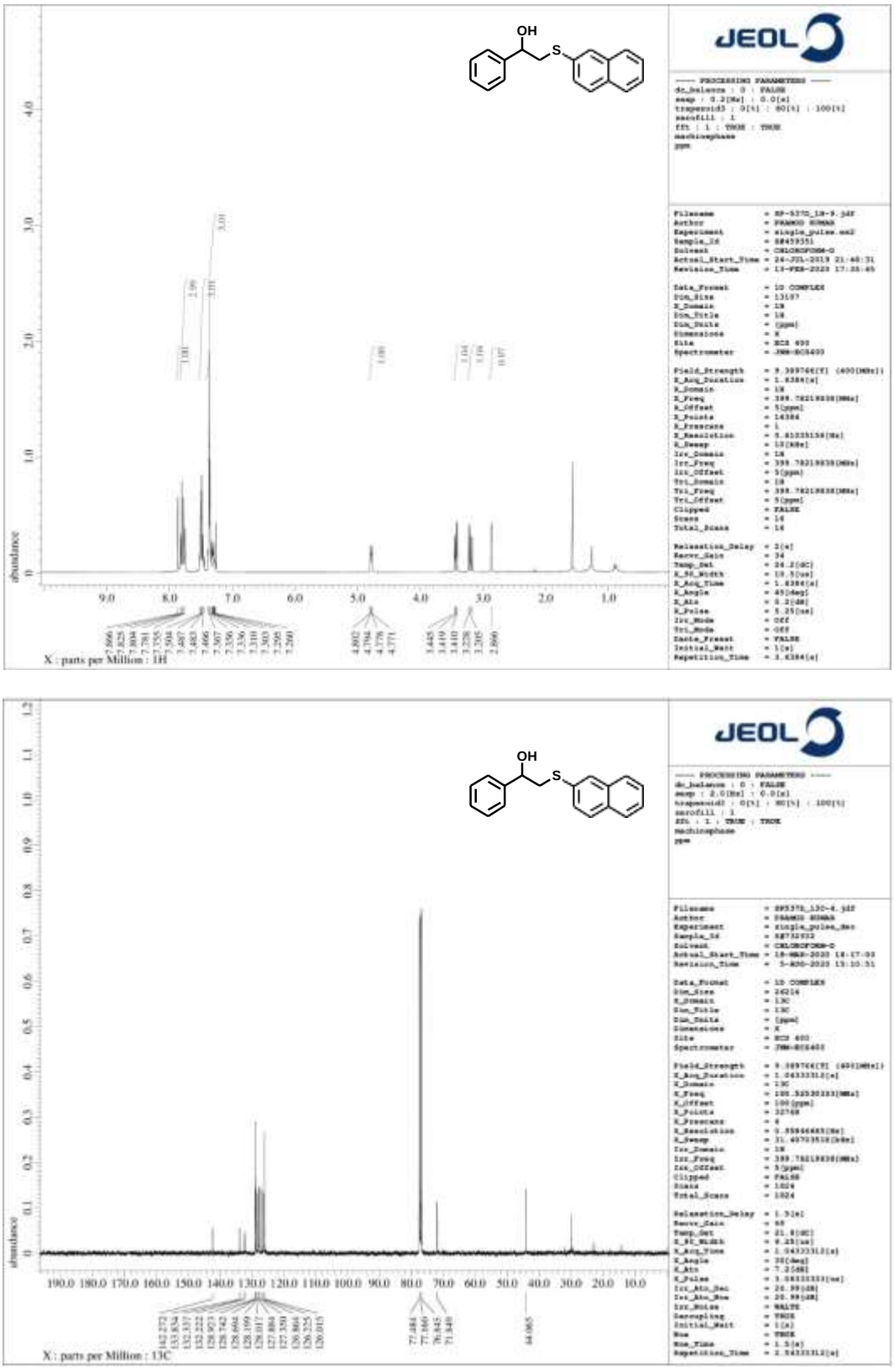
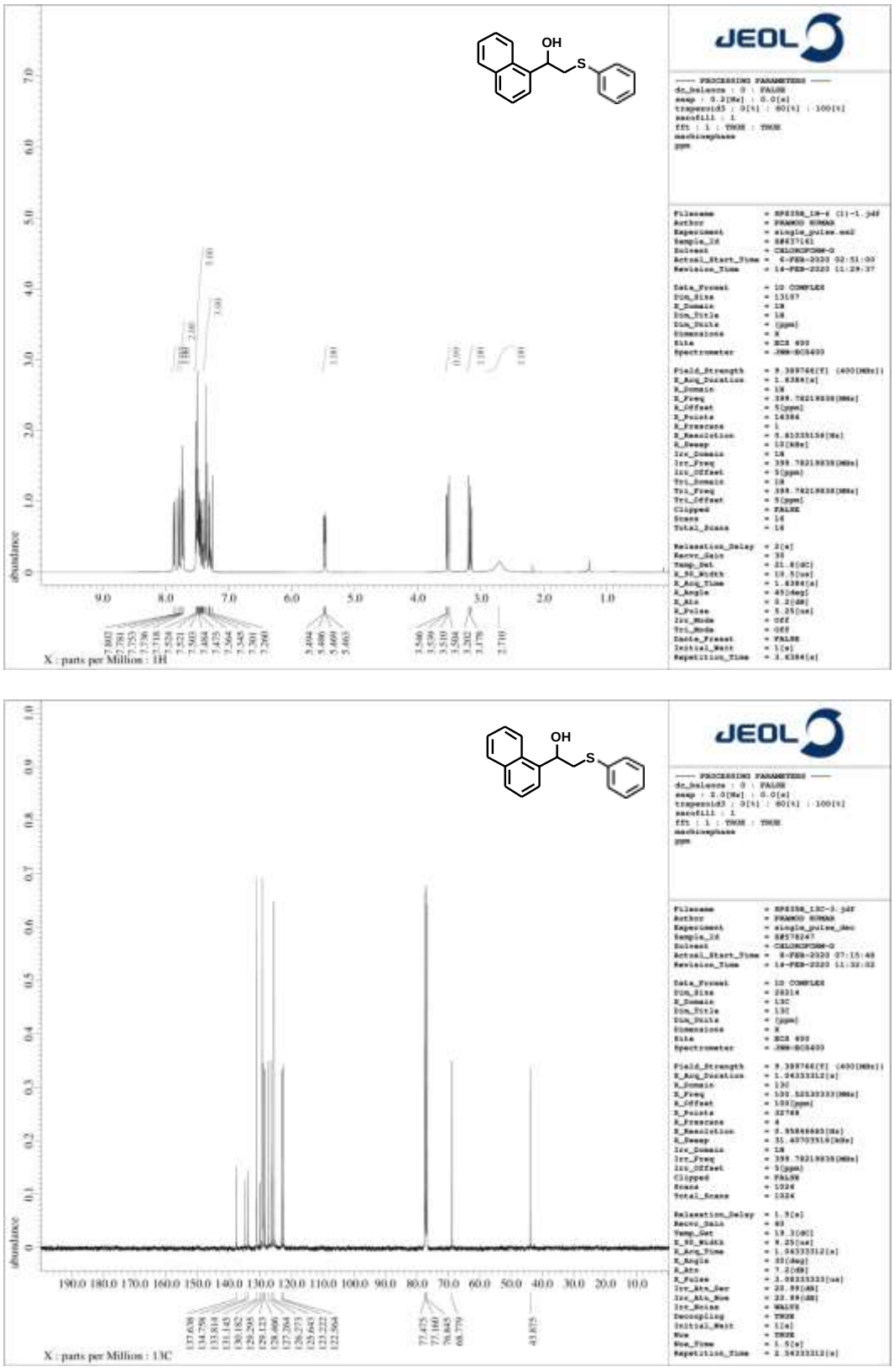


Figure S19.[1]H NMR (400 MHz, $CDCl_3$) NMR (100 MHz, $CDCl_3$) spectra of **3u.**



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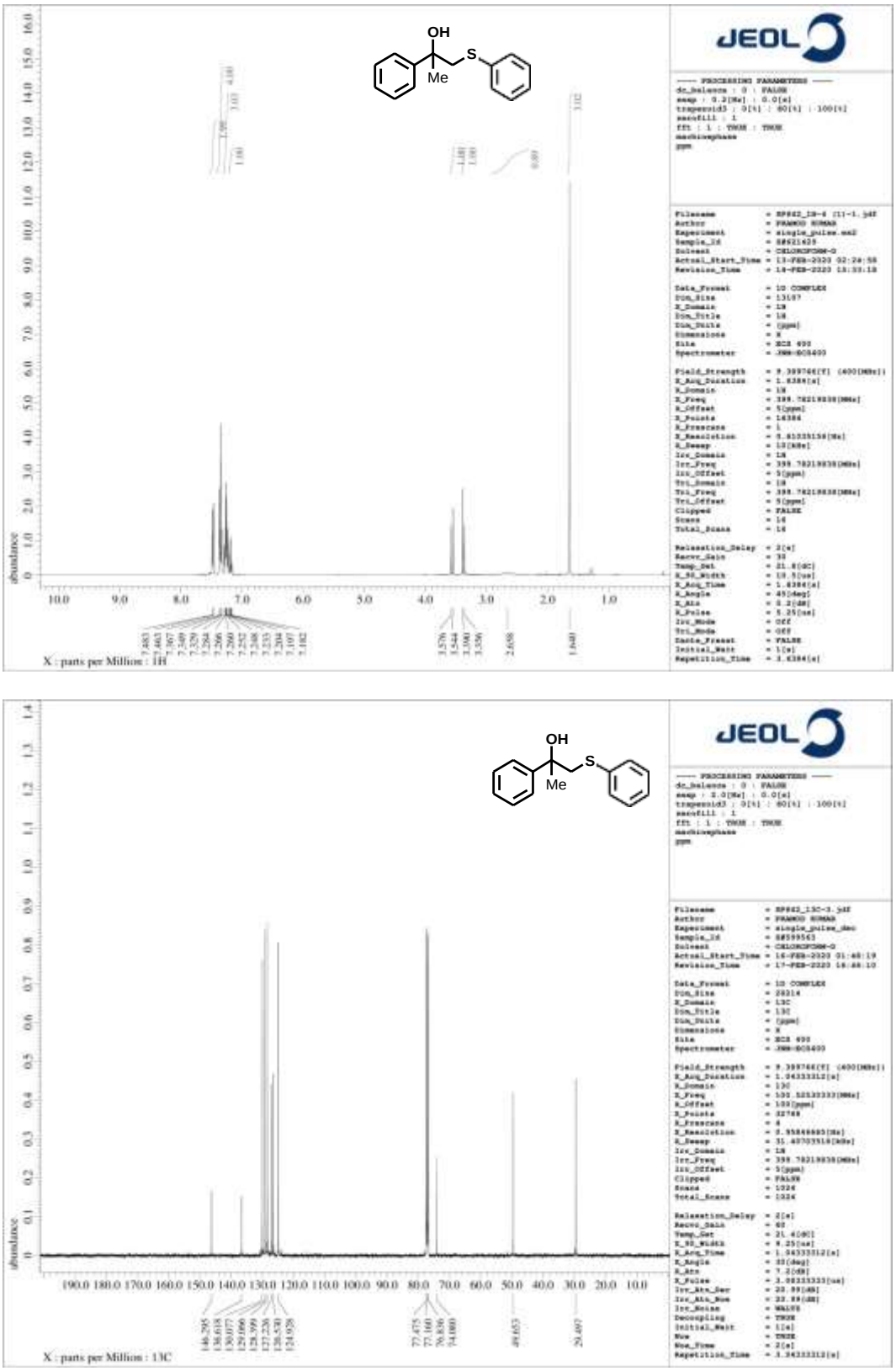

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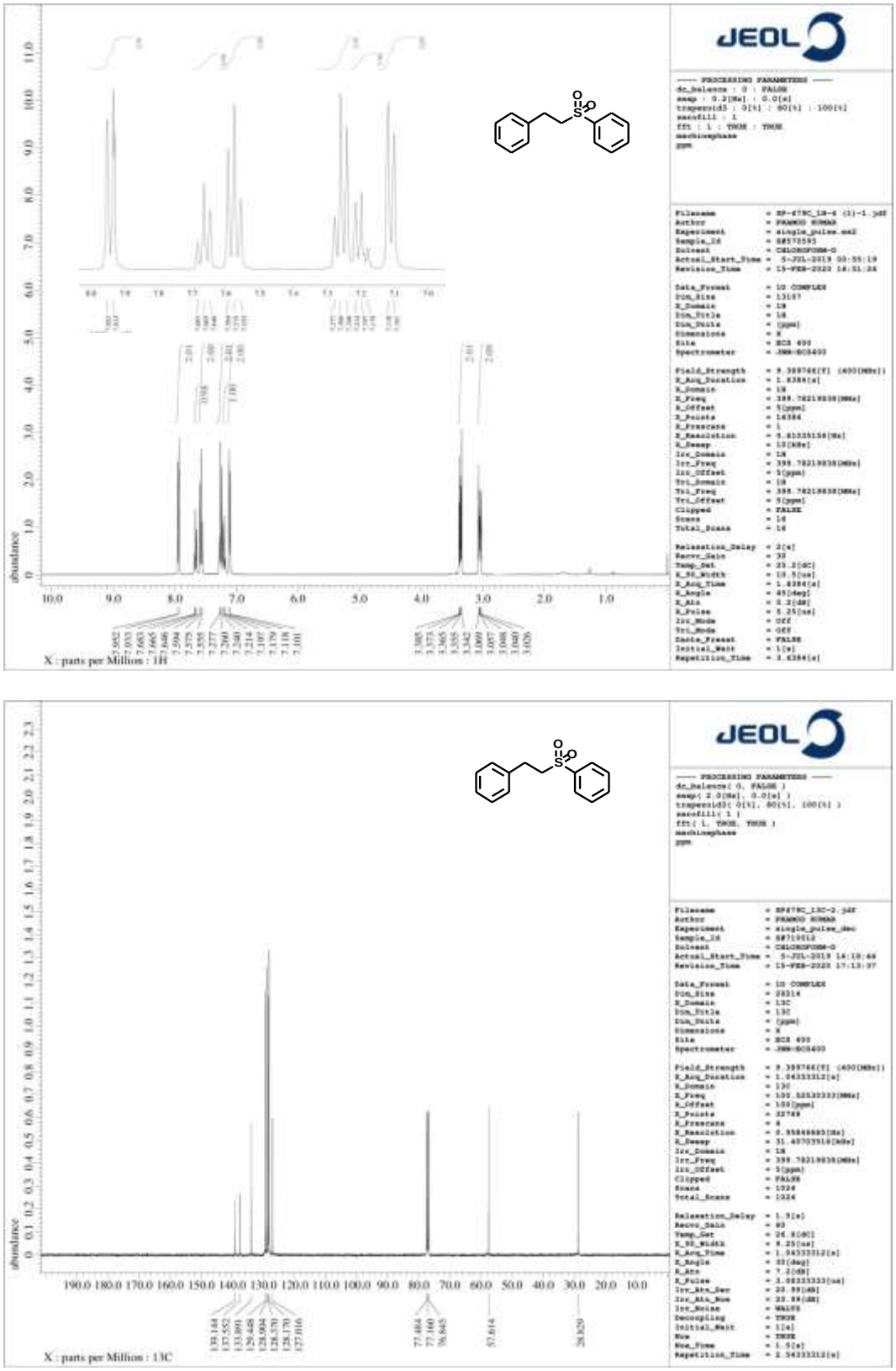

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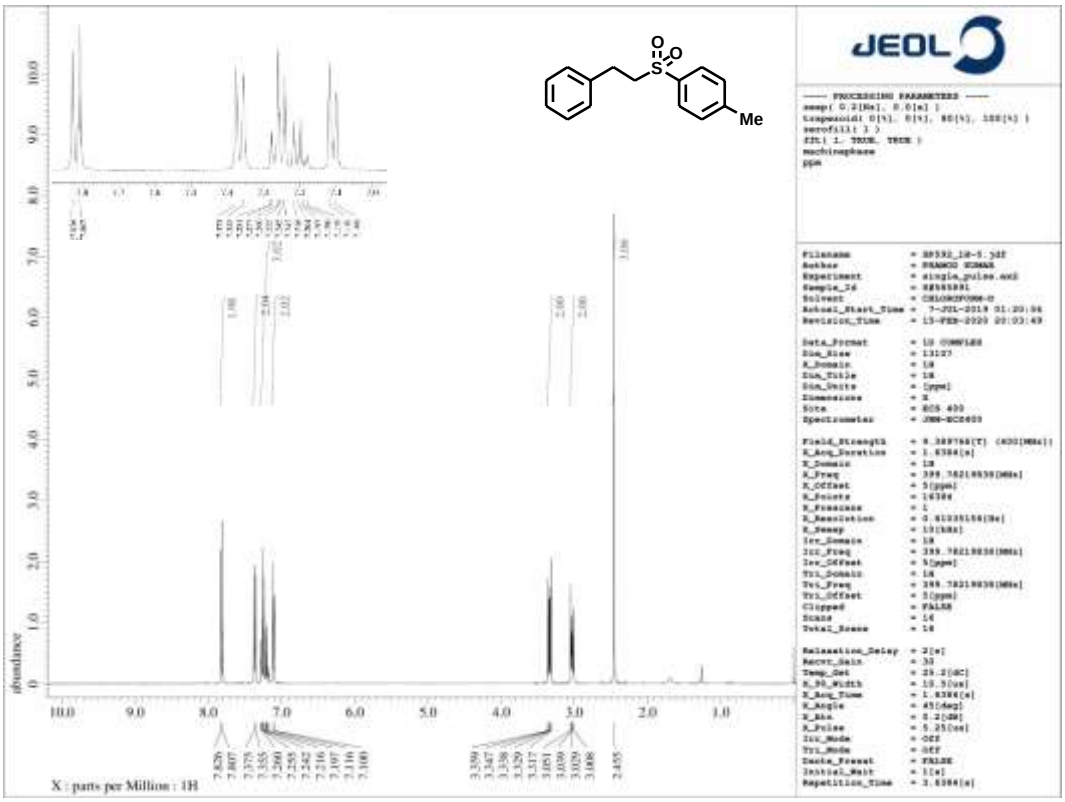

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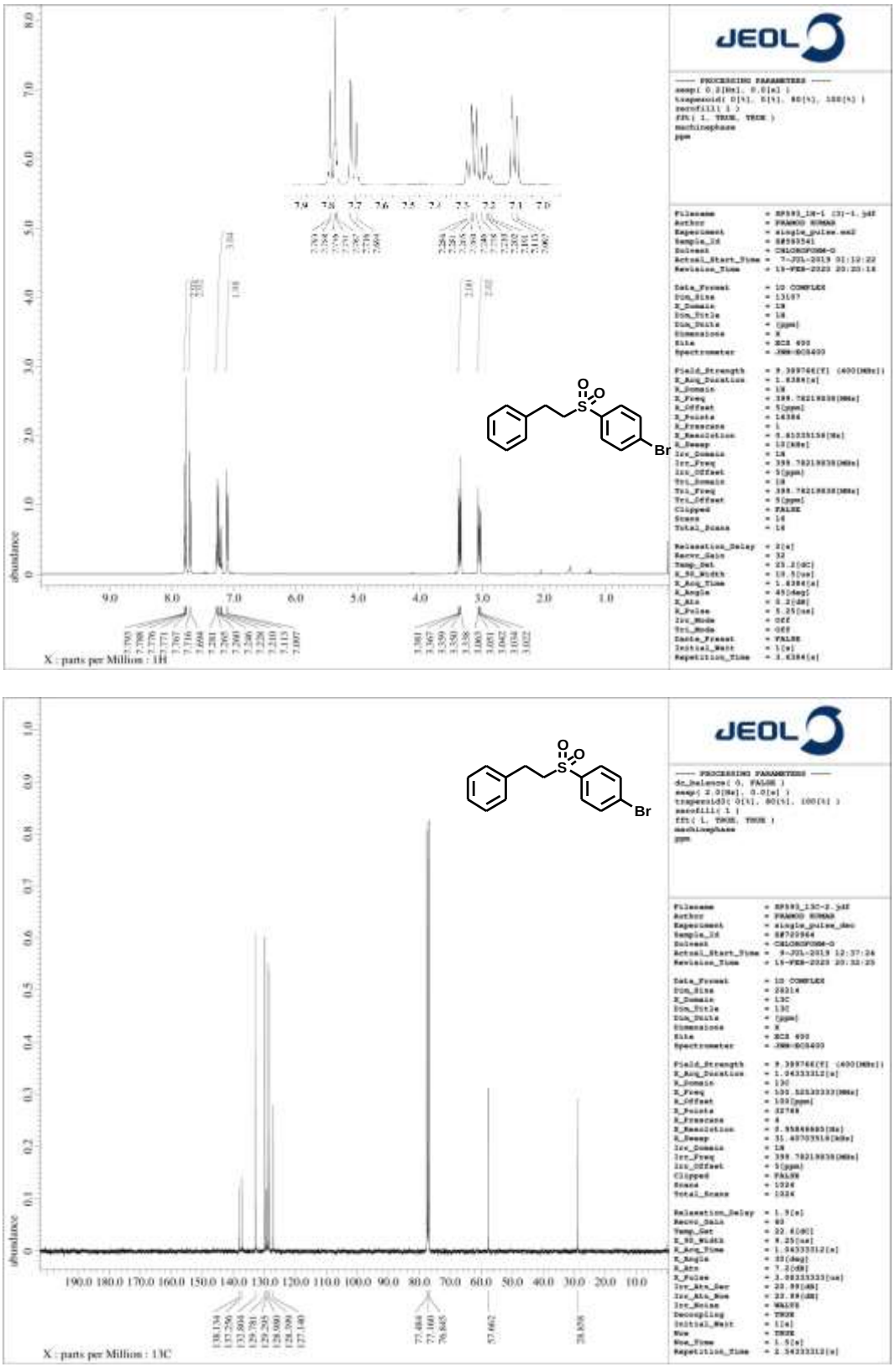

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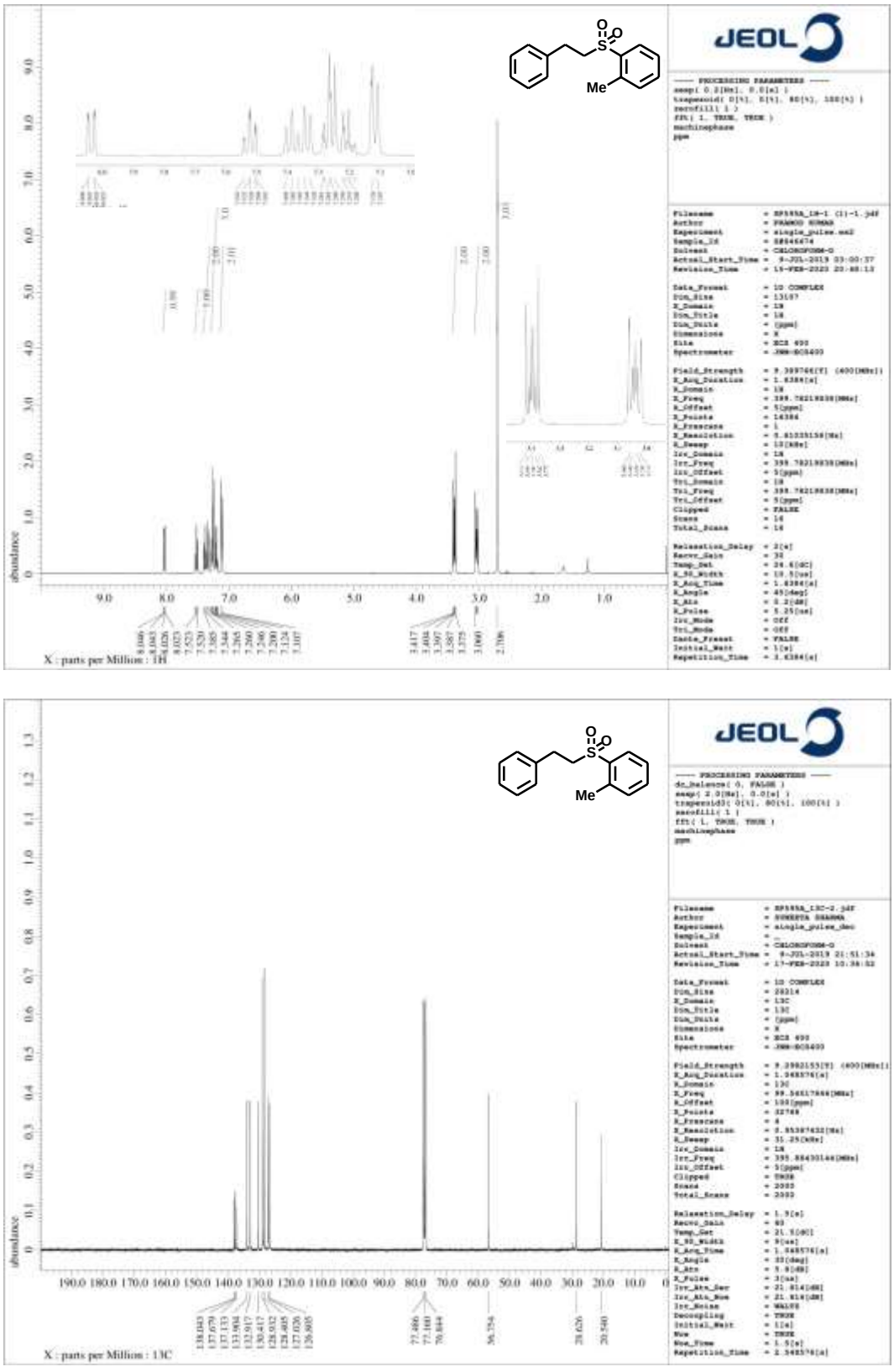
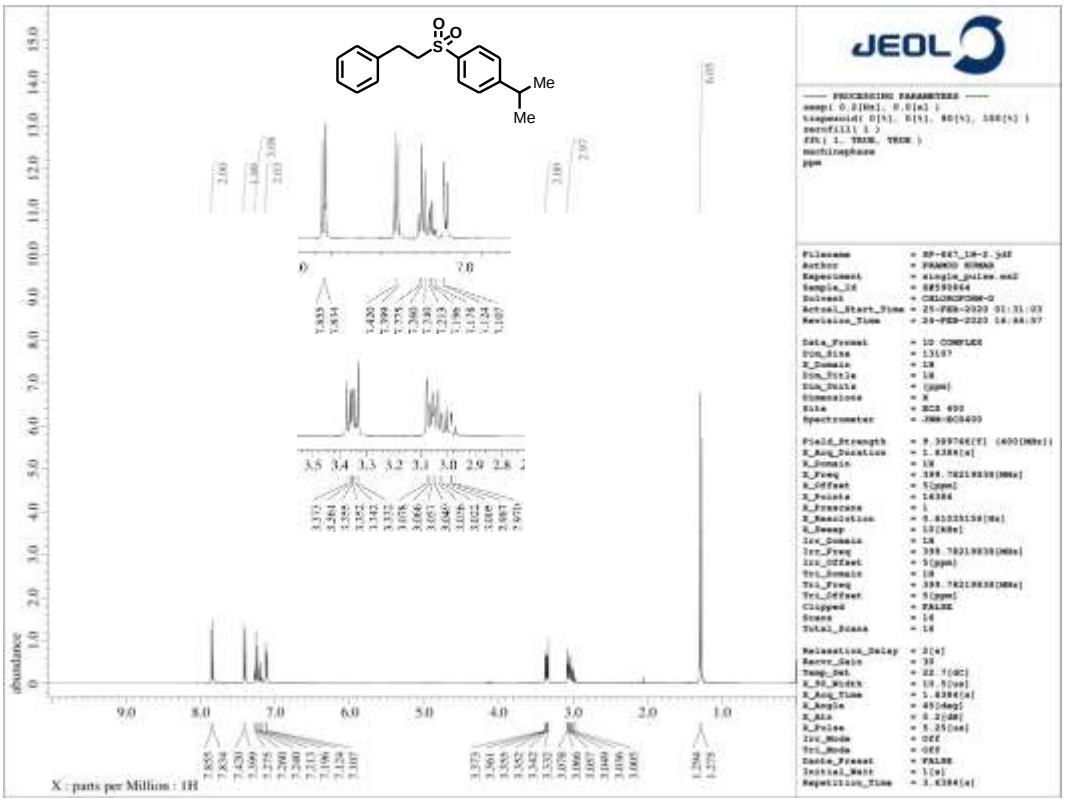


Figure S25.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **4d.**



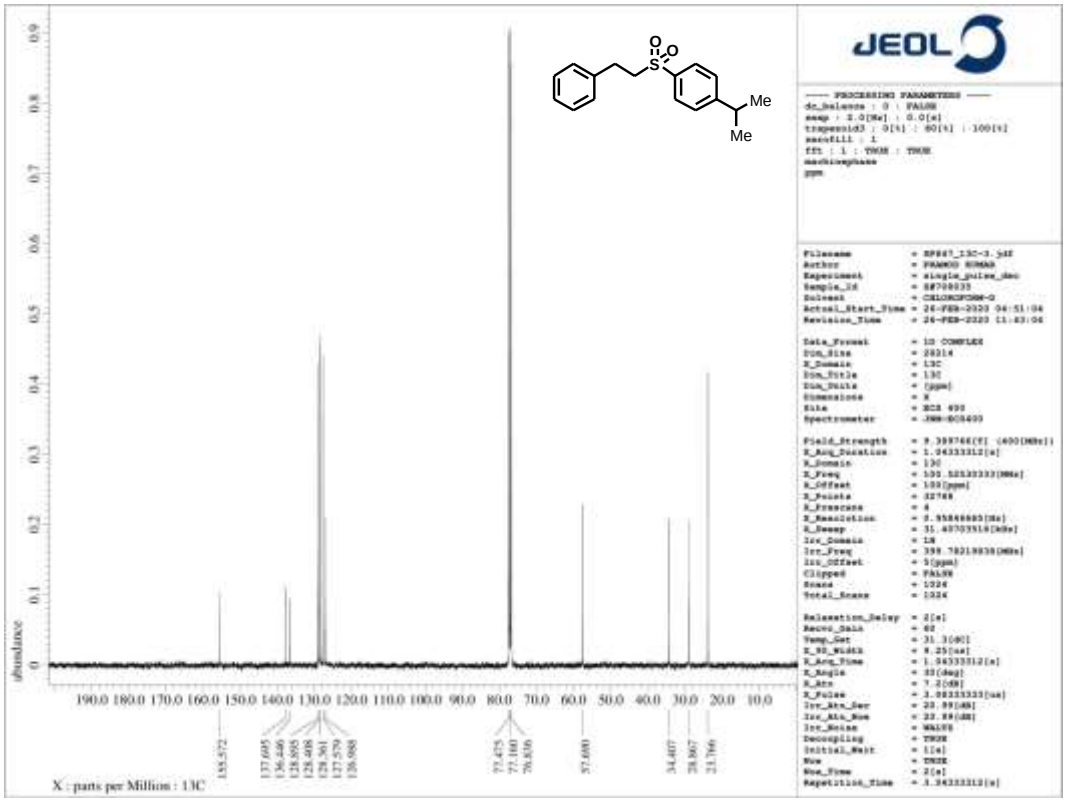


Figure S26.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **4e.**

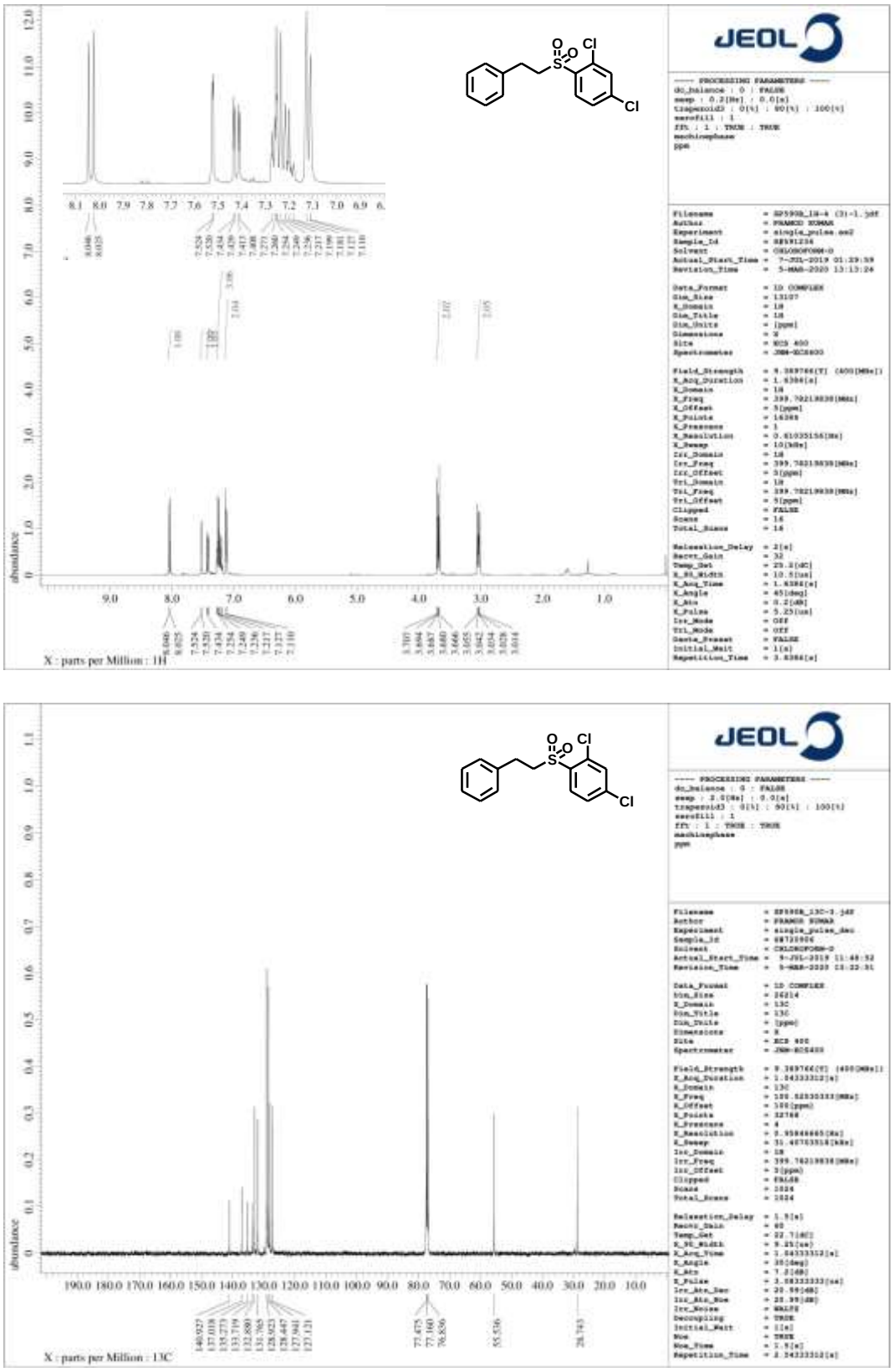


Figure S27.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **4g.**

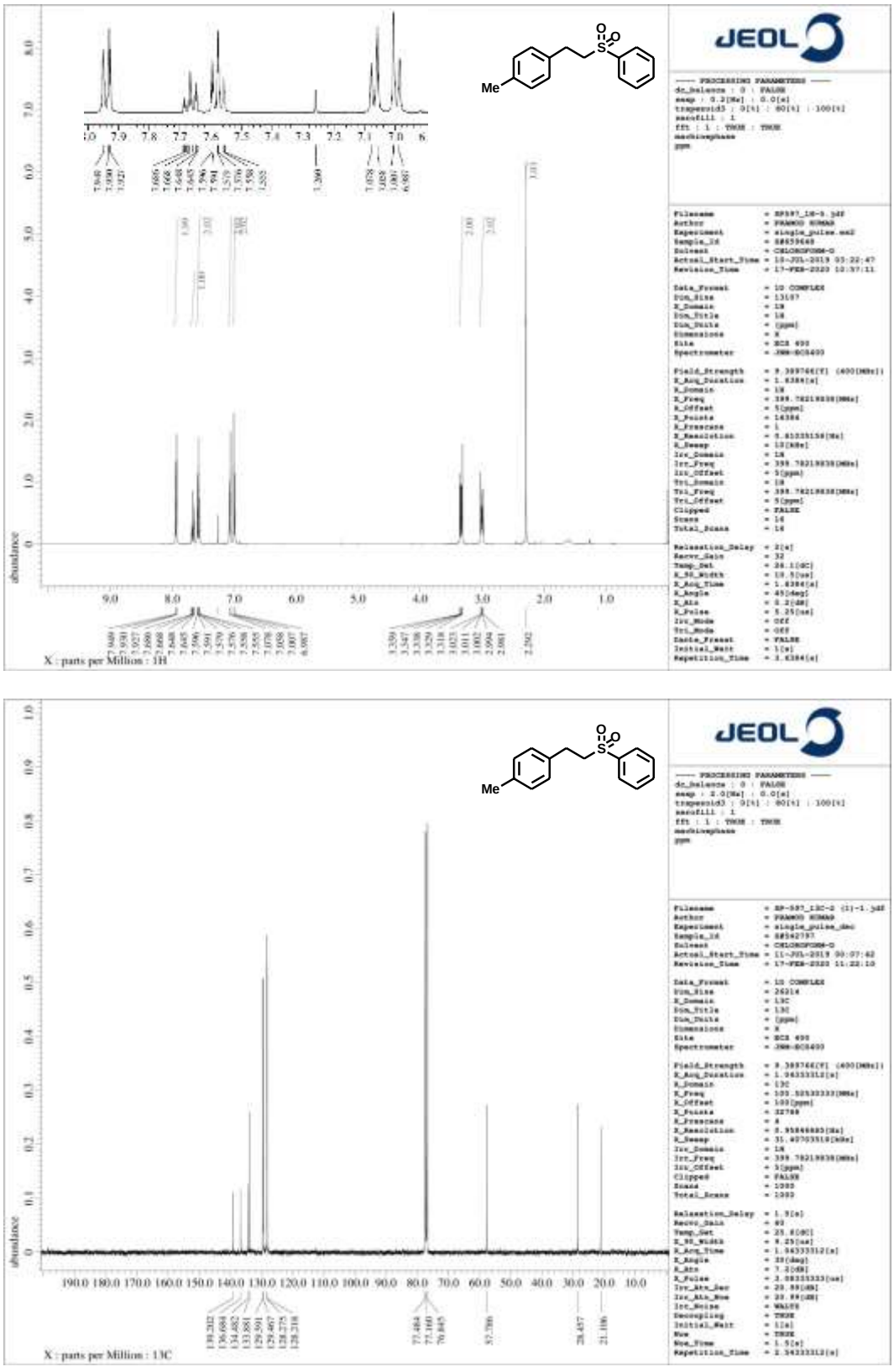


Figure S28.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **4h.**

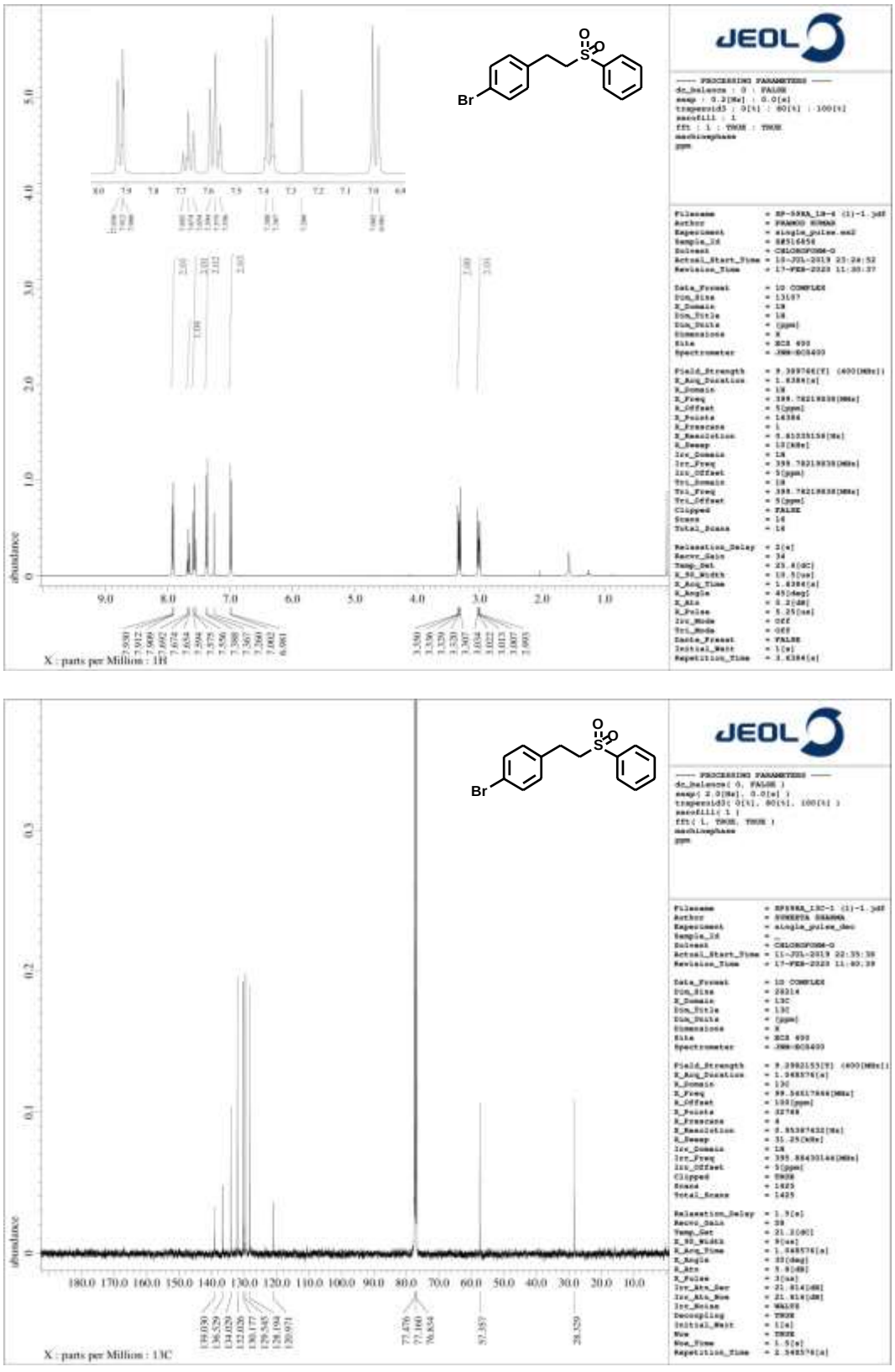


Figure S29.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **4i.**

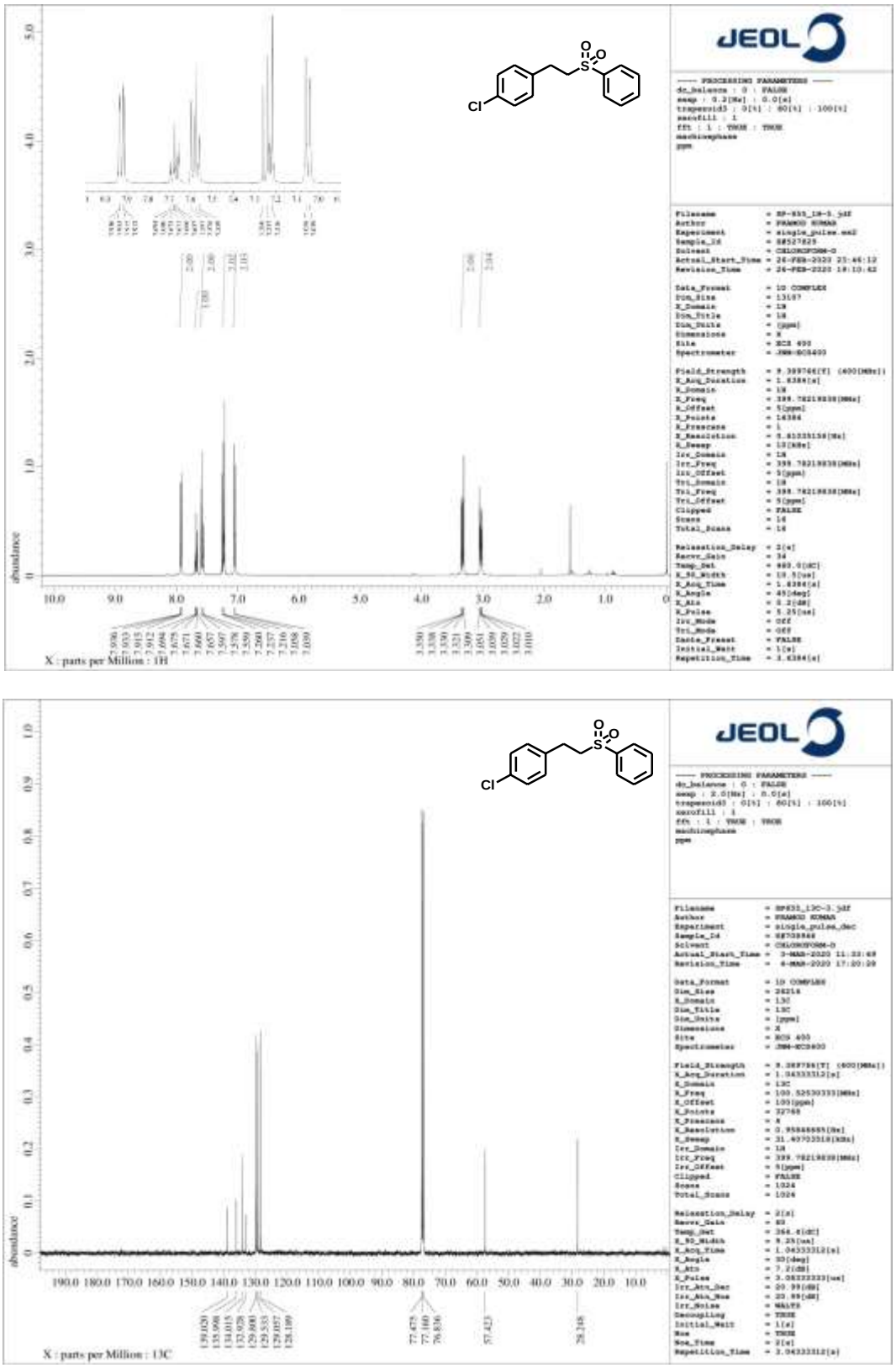


Figure S30.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **4j.**

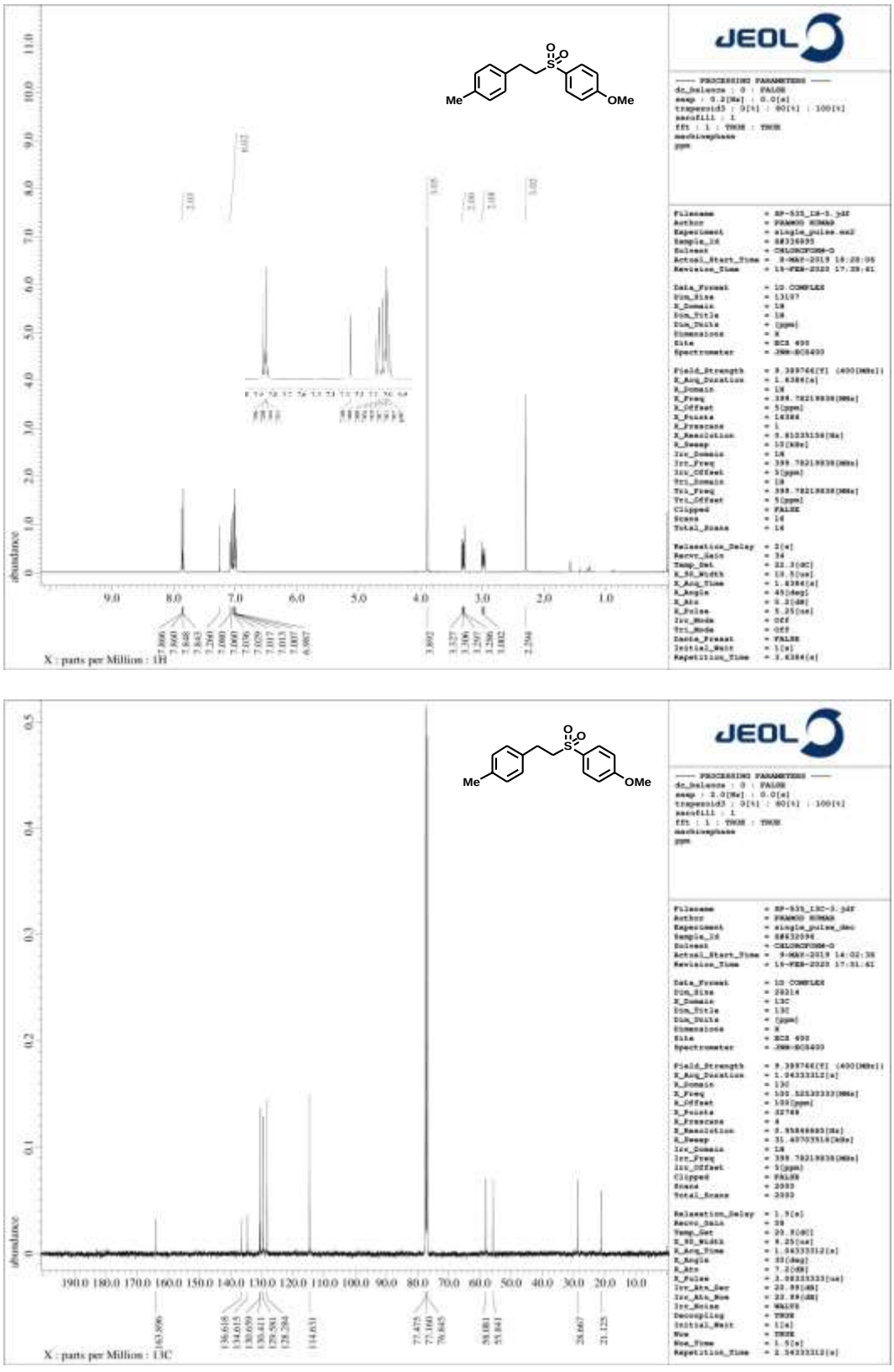


Figure S31.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **4l.**

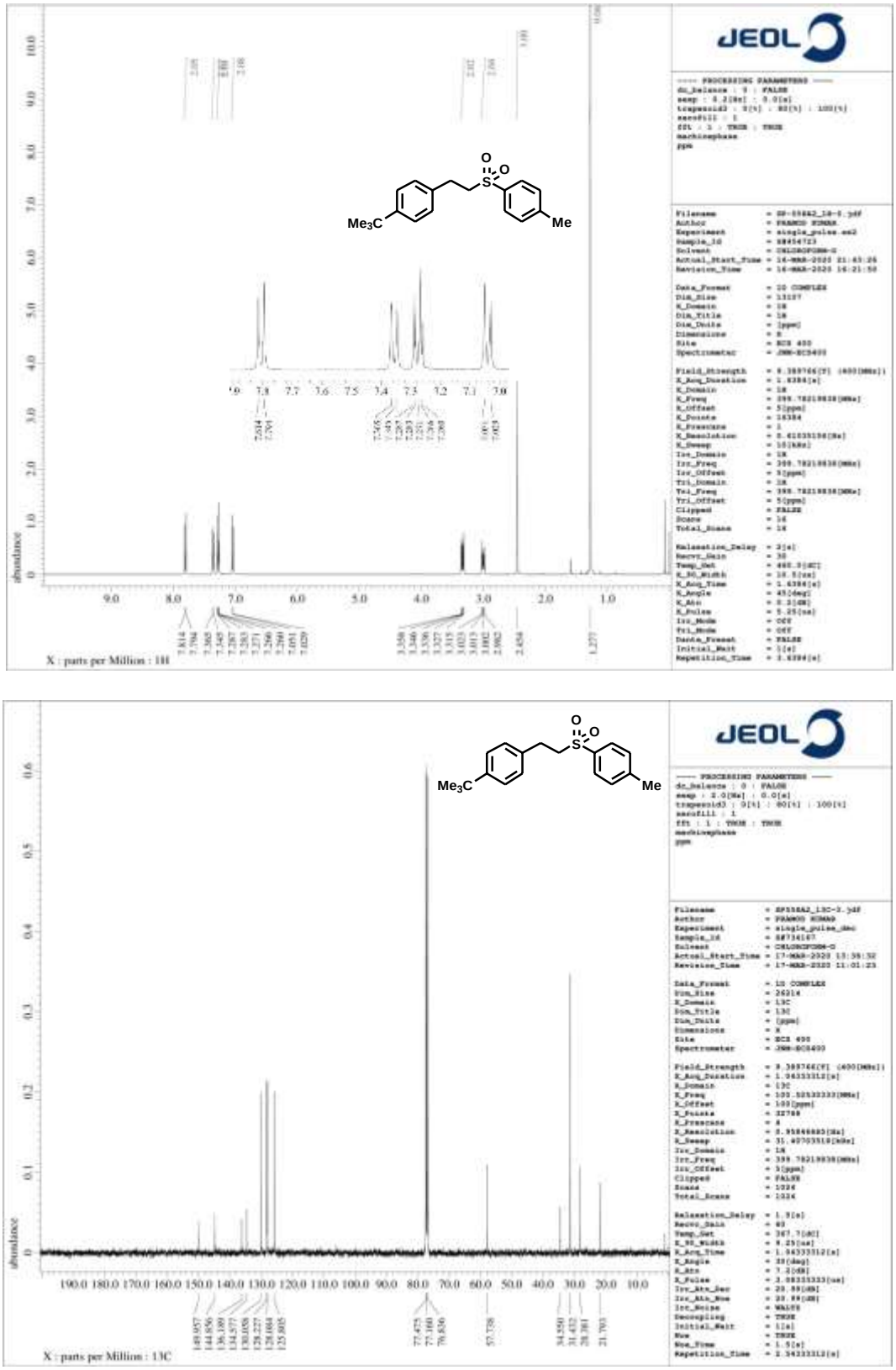


Figure S32. ^{1}H NMR (400 MHz, $CDCl_3$) and ^{13}C NMR (100 MHz, $CDCl_3$) spectra of **4m.**

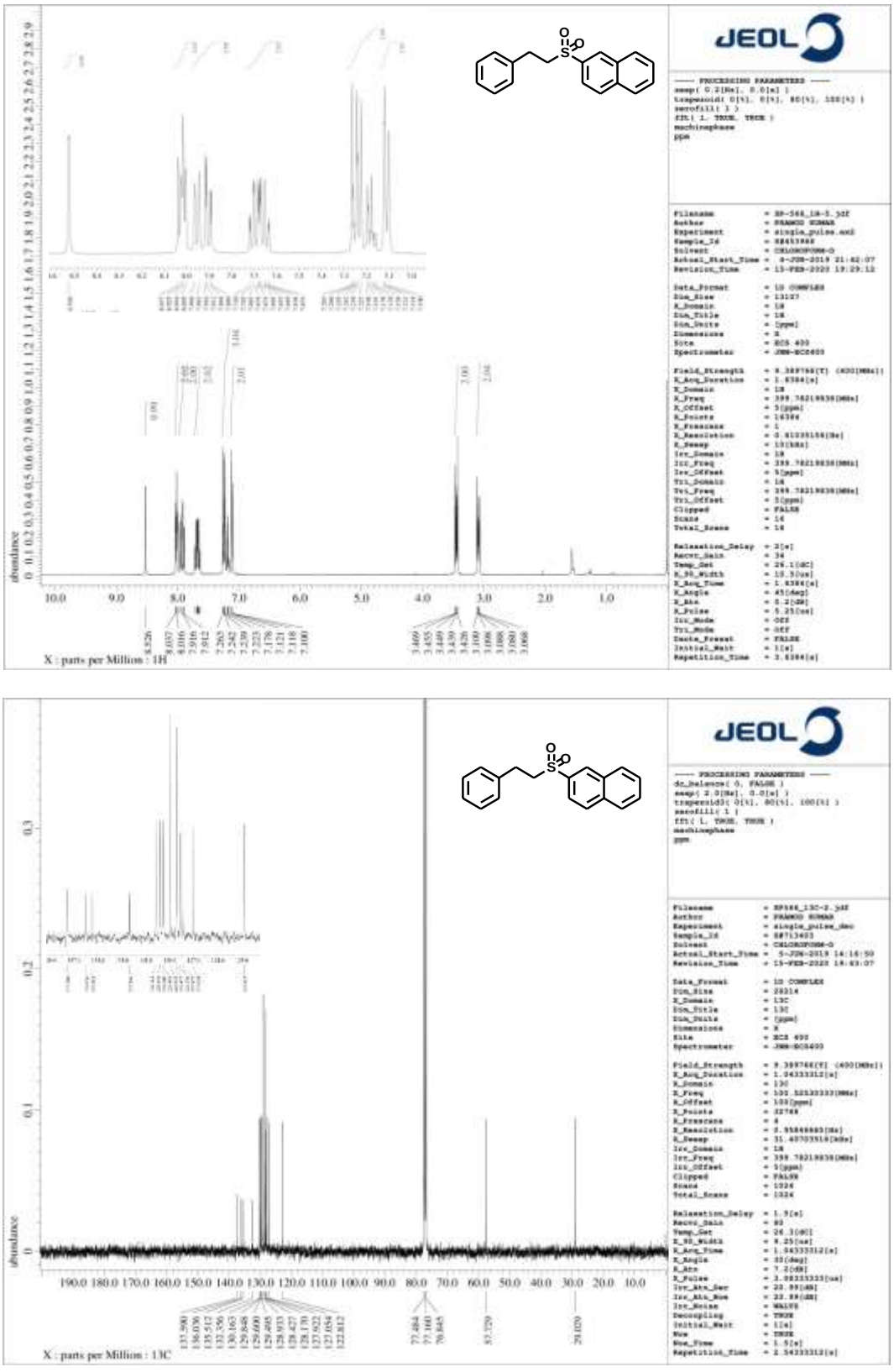


Figure S33.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **4n.**

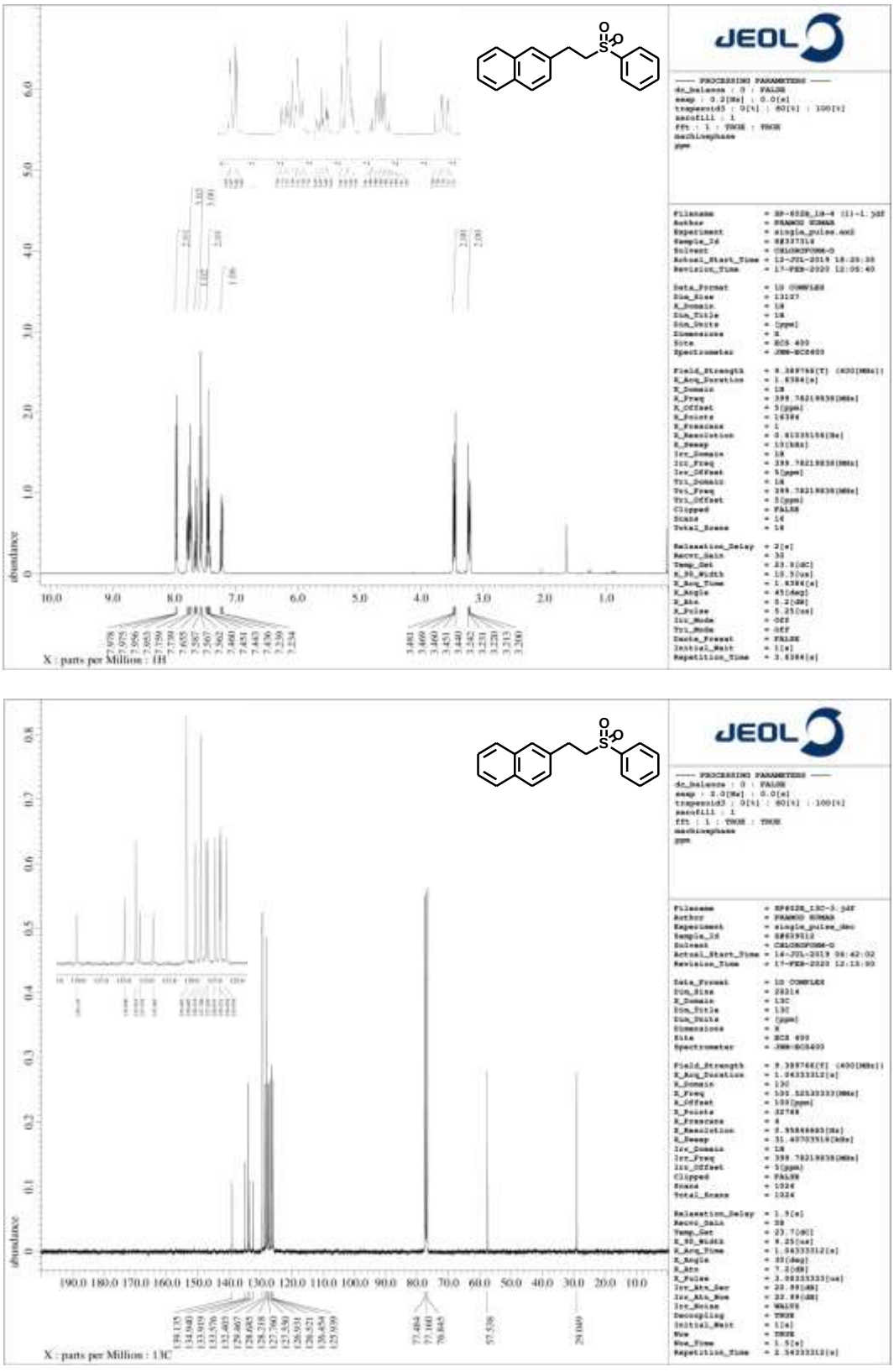


Figure S34.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **4o.**

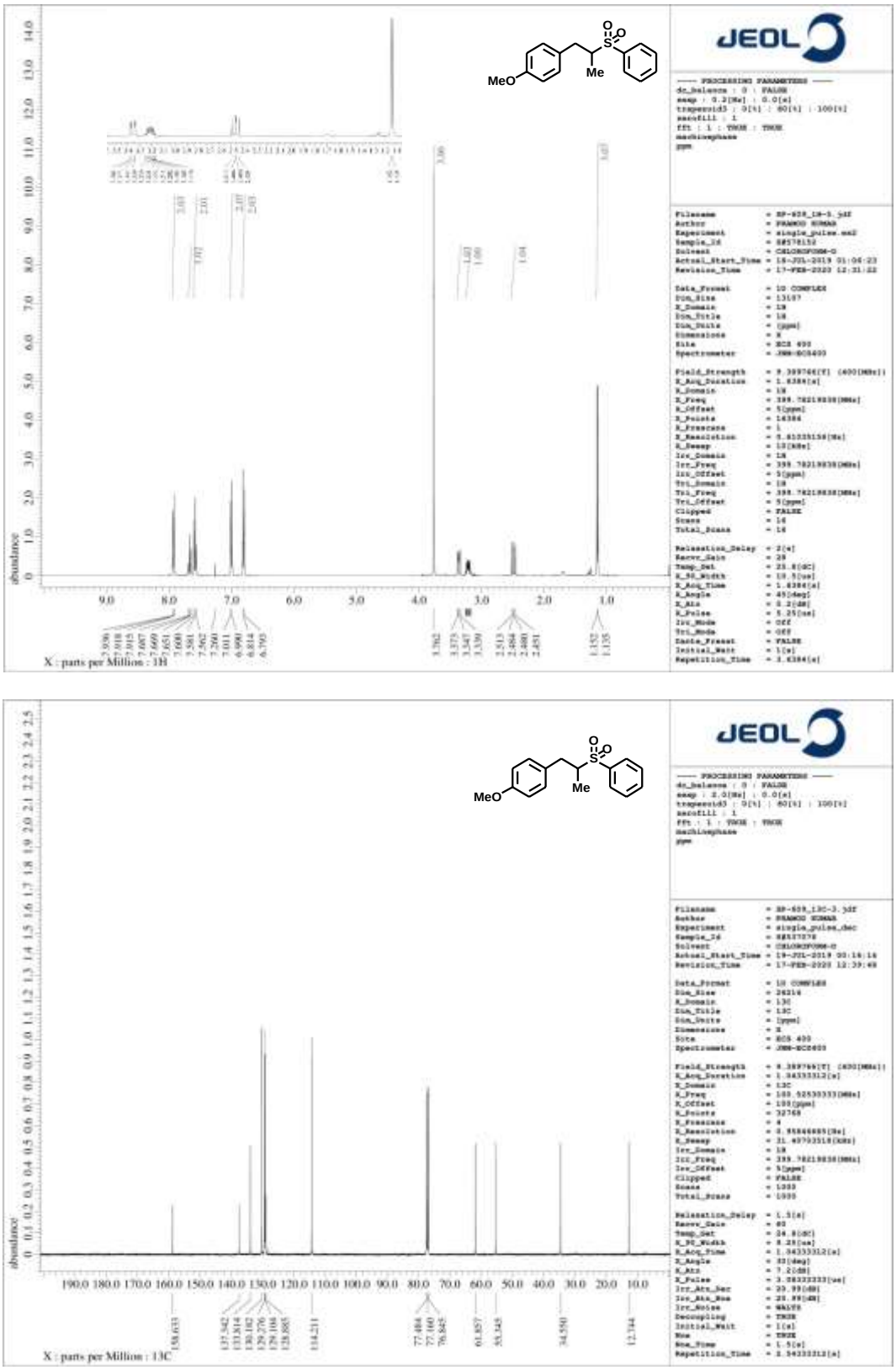


Figure S35.[1]H NMR (400 MHz, $CDCl_3$) and [13]C NMR (100 MHz, $CDCl_3$) spectra of **4p.**

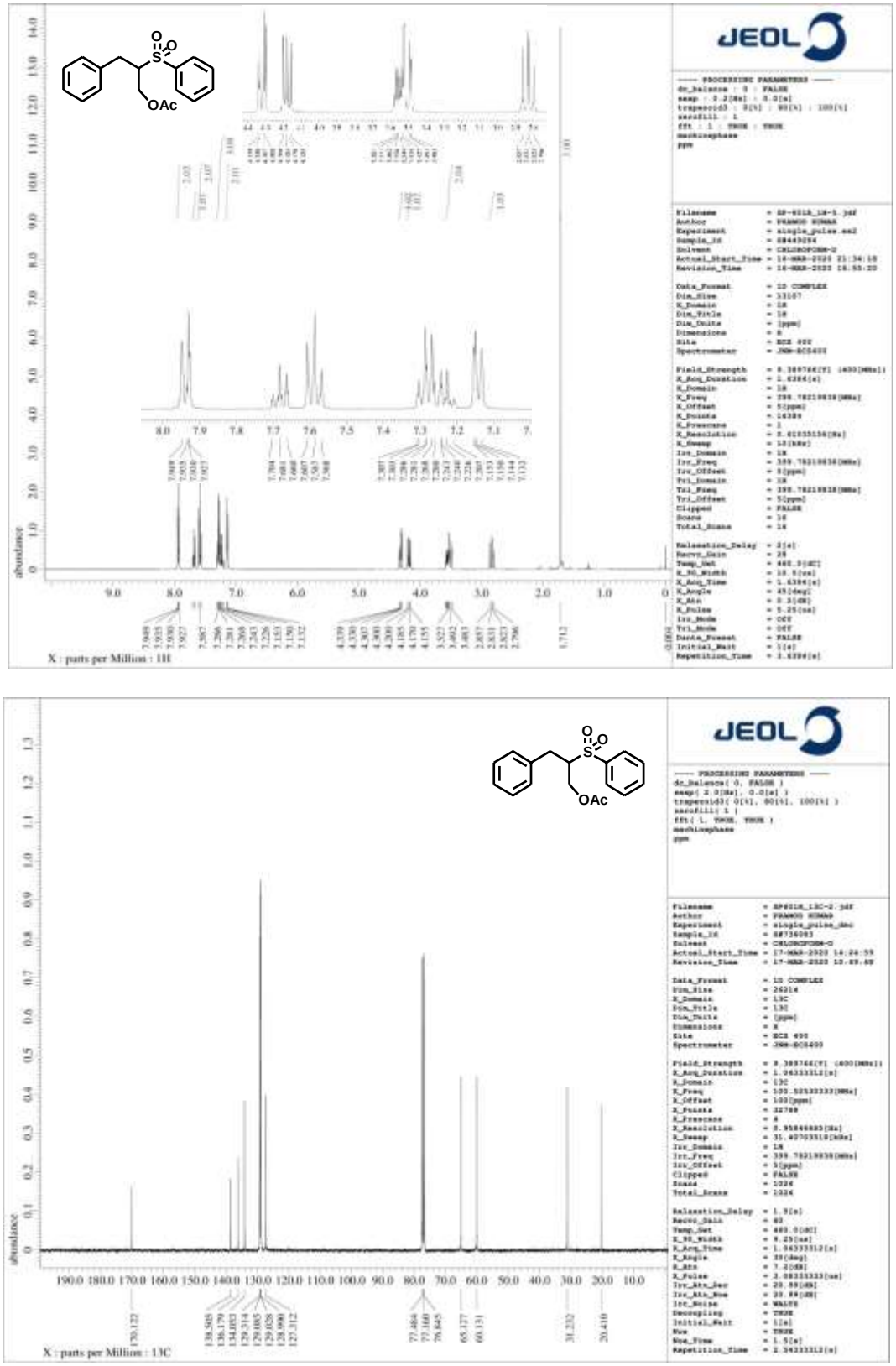


Figure S36. ^{1}H NMR (400 MHz, $CDCl_3$) and ^{13}C NMR (100 MHz, $CDCl_3$) spectra of **4q.**

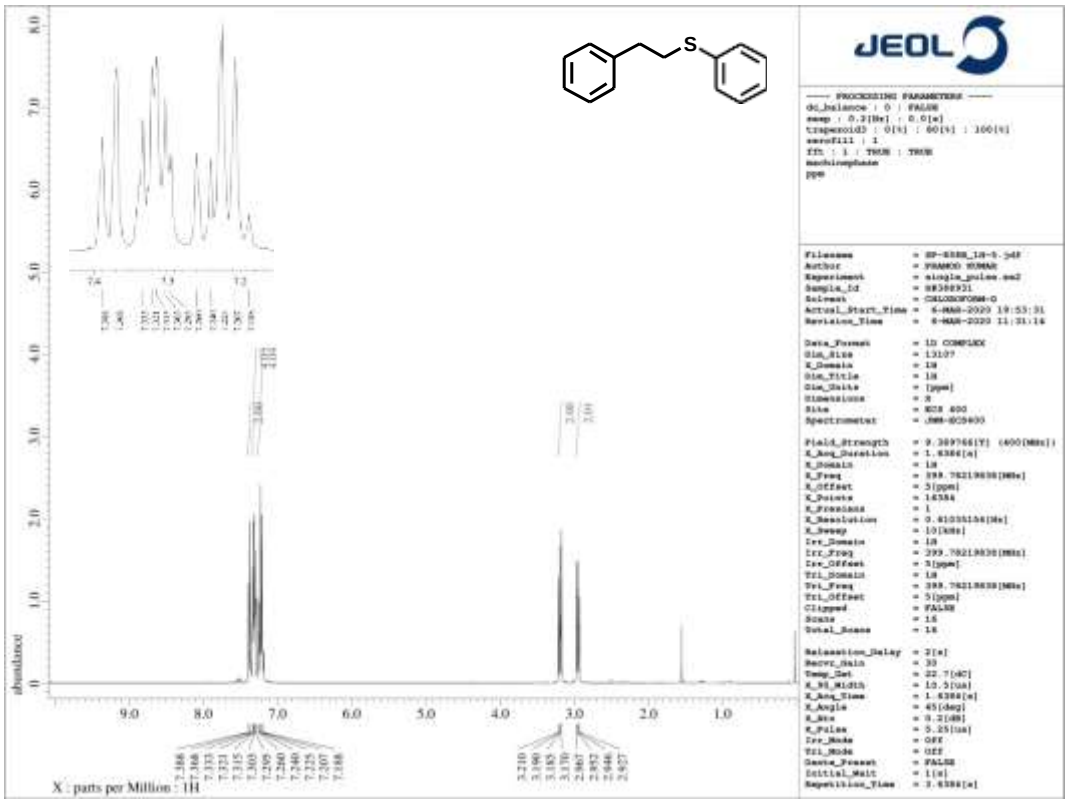


Figure S37.[1]H NMR (400 MHz, $CDCl_3$) spectra of **2ab.**