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Synthesis and antiproliferative evaluation of novel tetrahydrobenzo[4',5'] thieno [3',2':5,6]pyrido[4,3-*d*]pyrimidine derivatives

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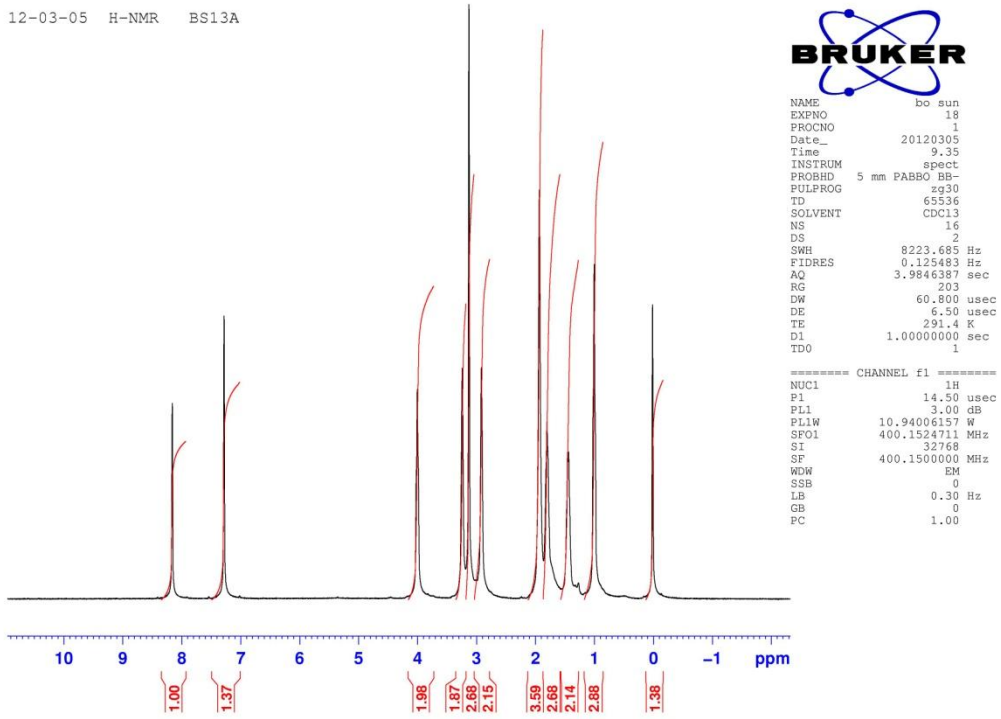
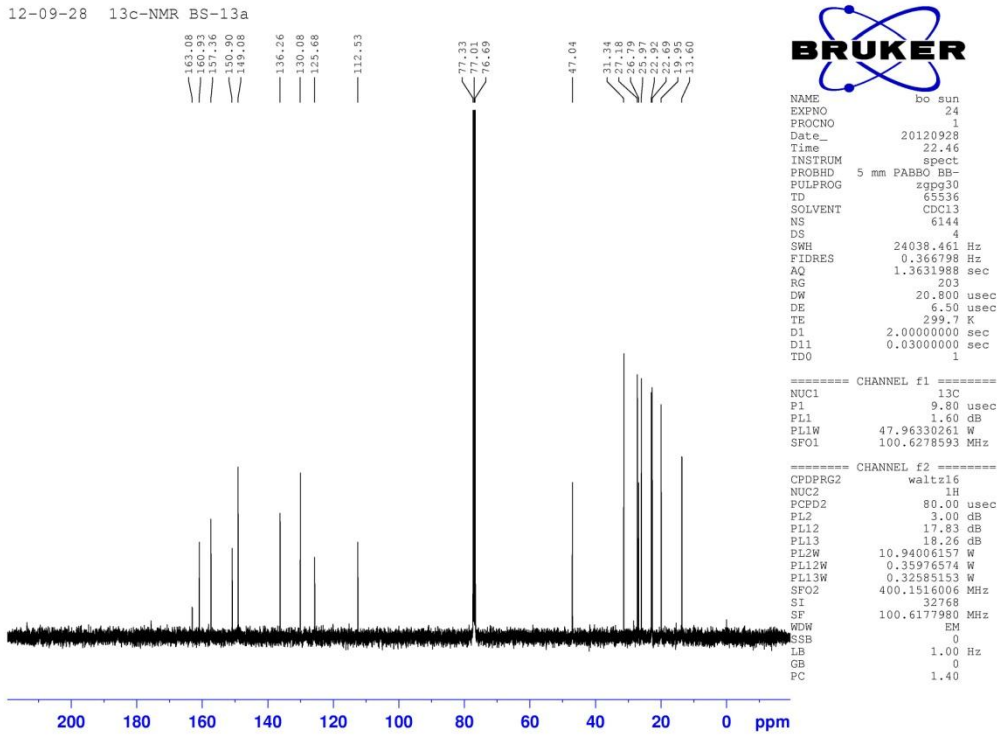


^{1}H NMR spectrum of compound **5a**



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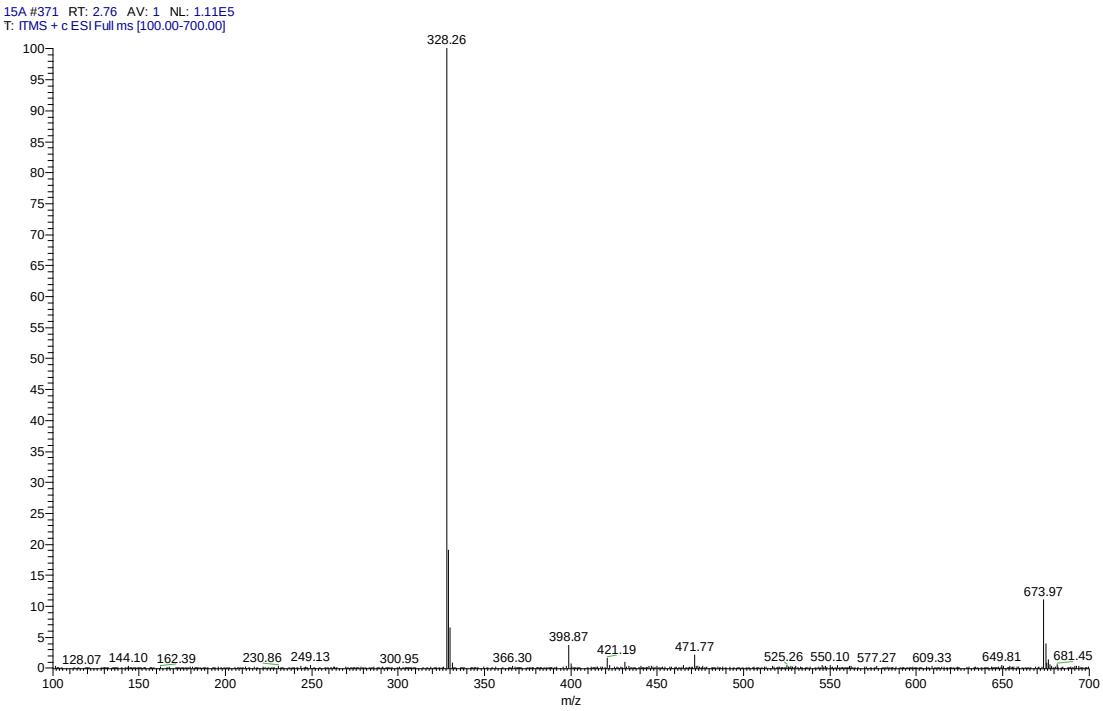
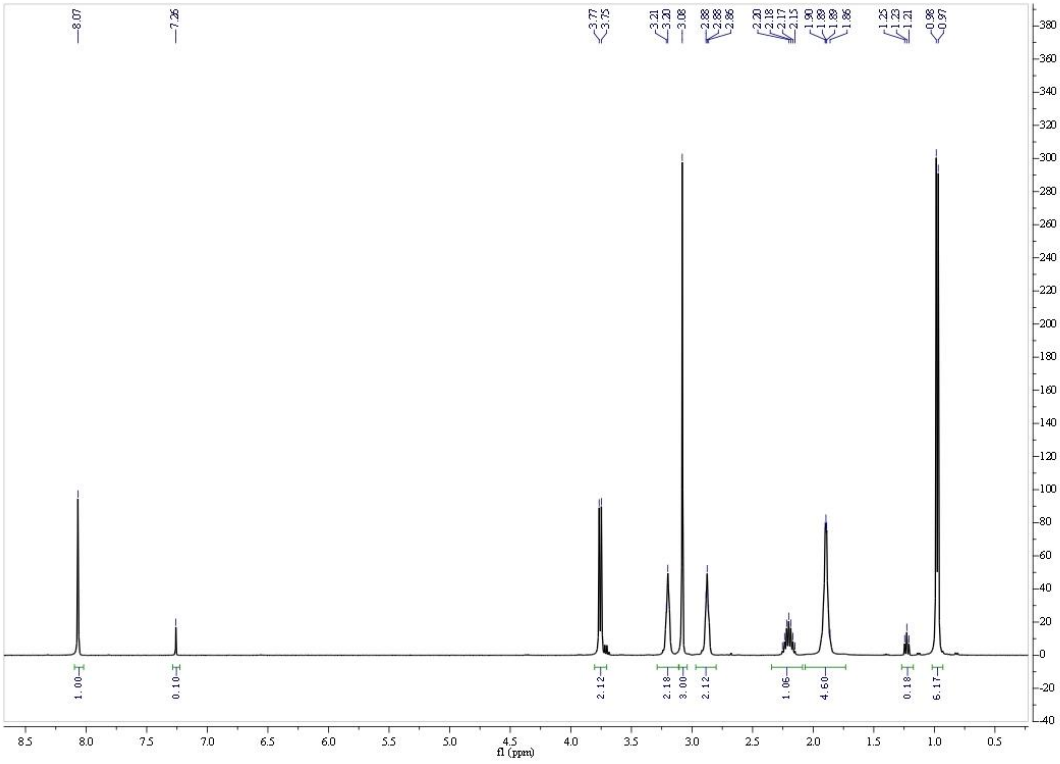


MS spectrum of compound **5a**



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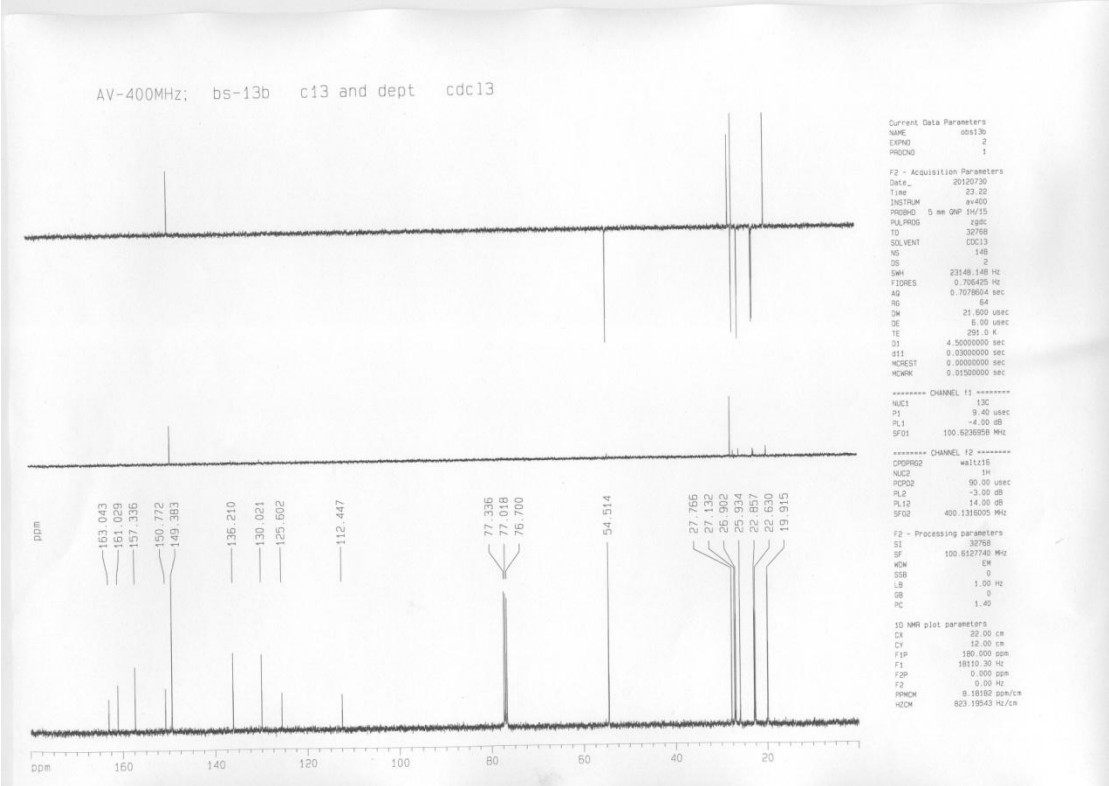

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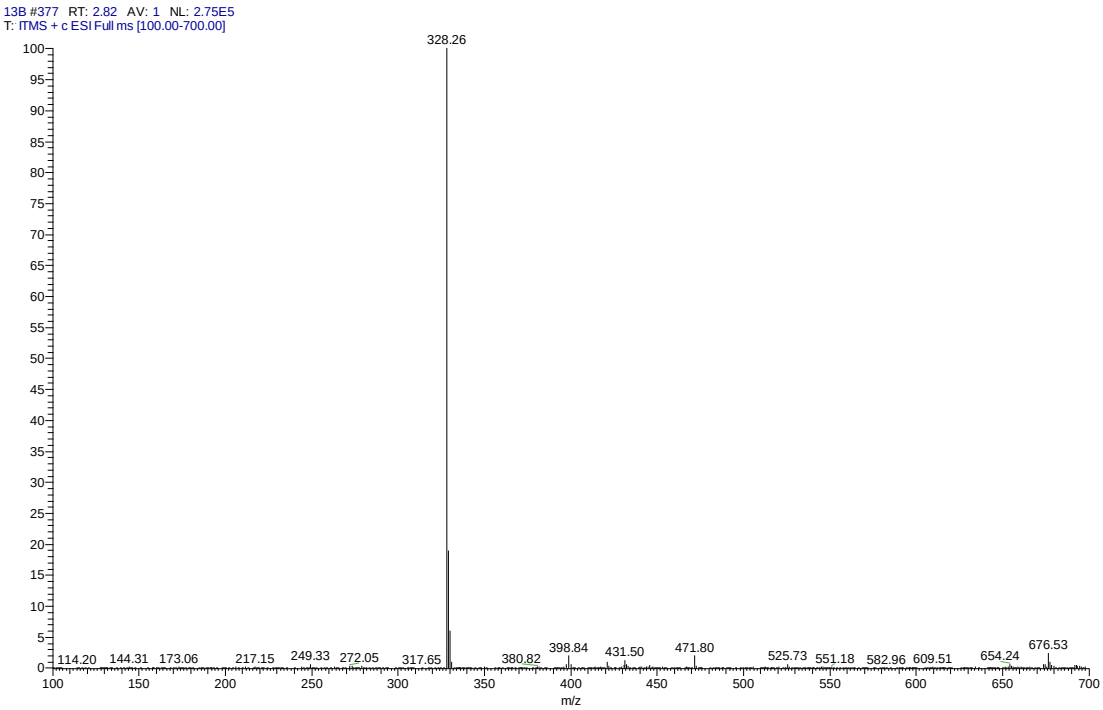
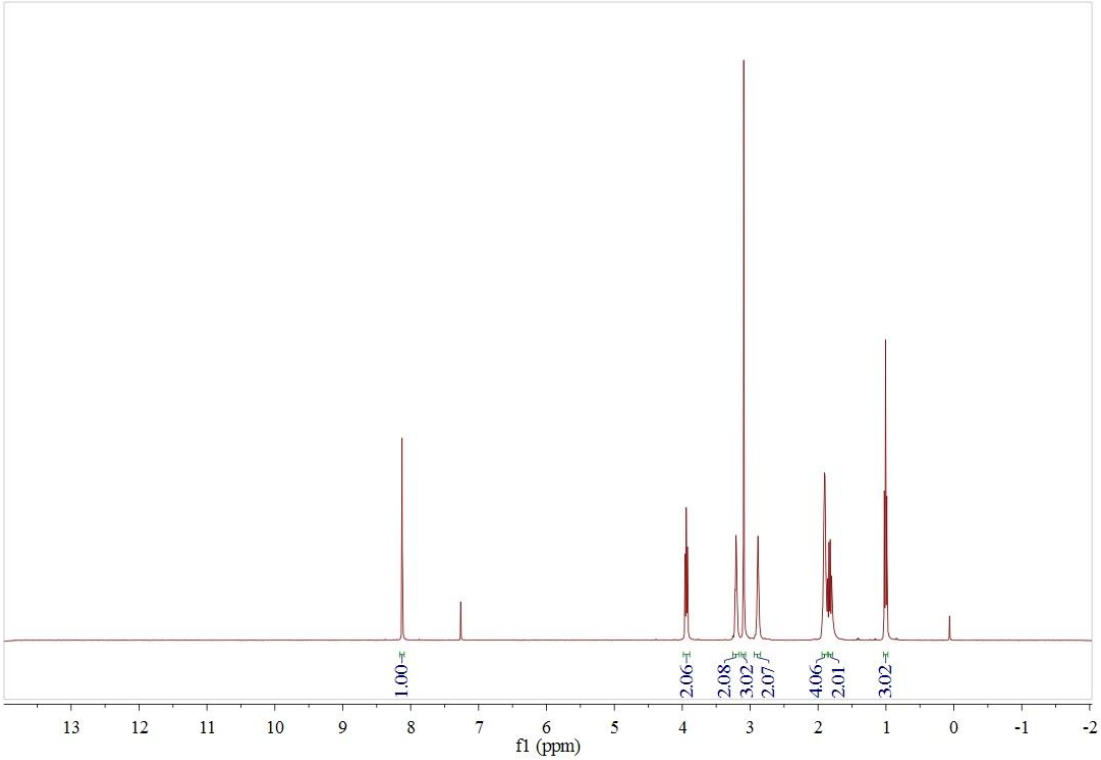


MS spectrum of compound **5b**



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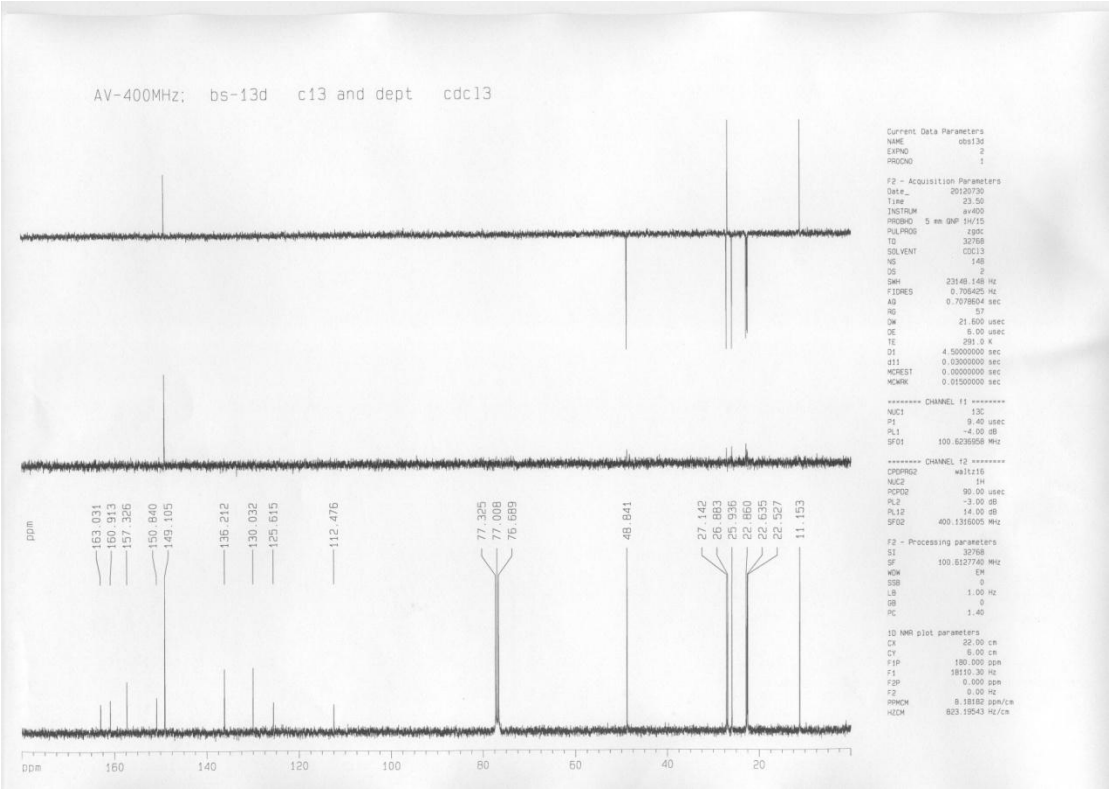
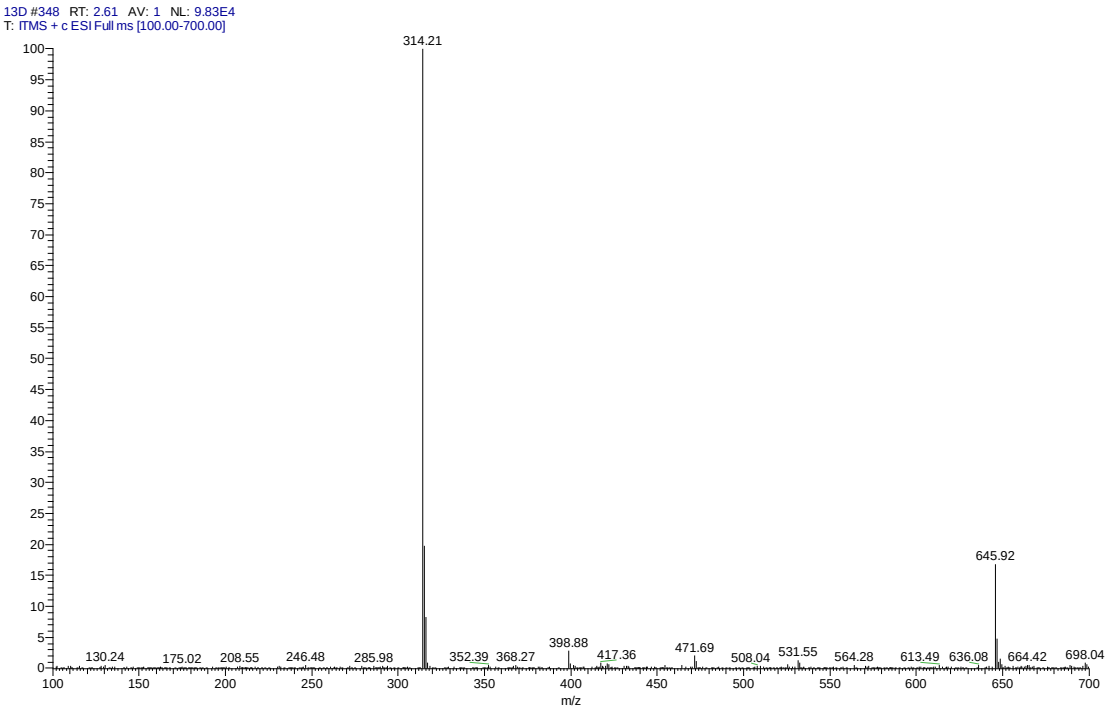


^{13}C NMR spectrum of compound **5c**



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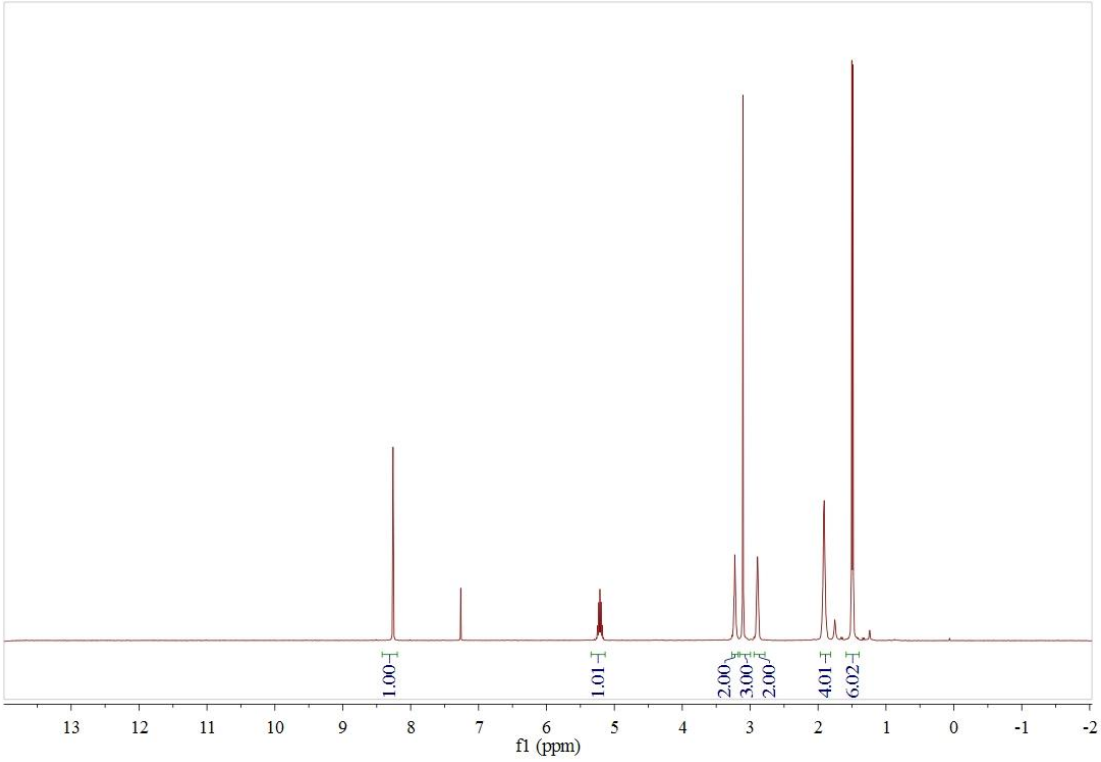

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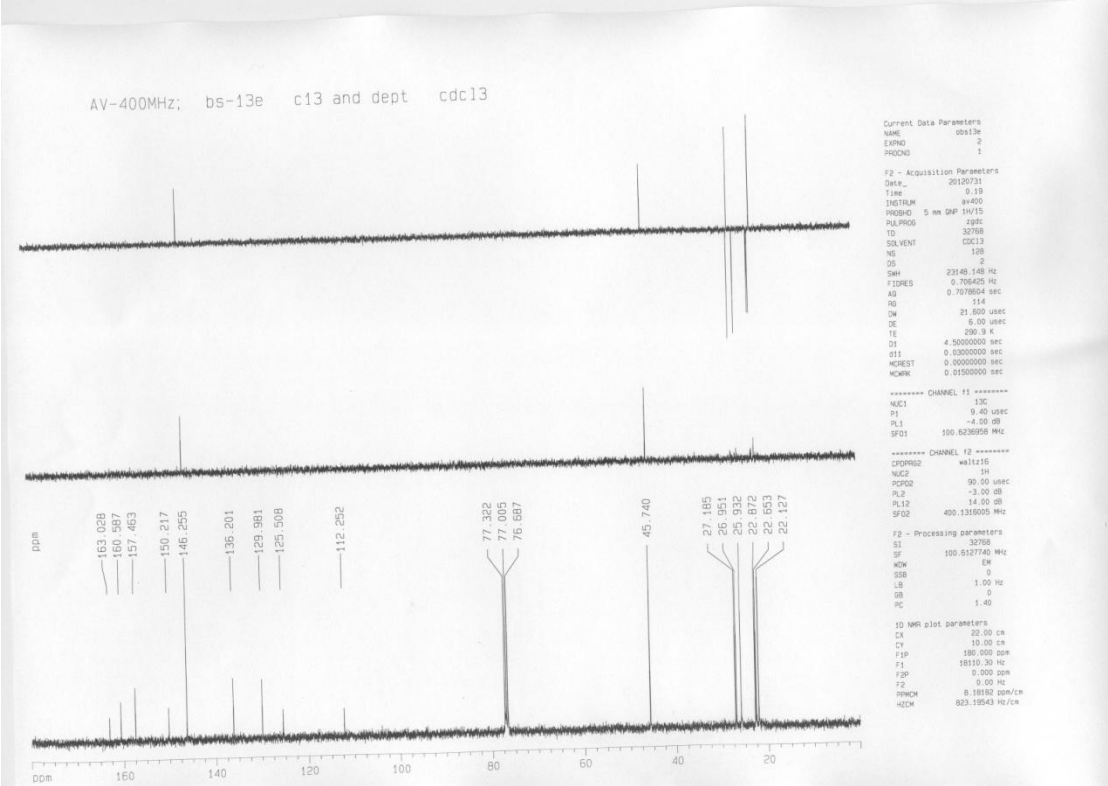

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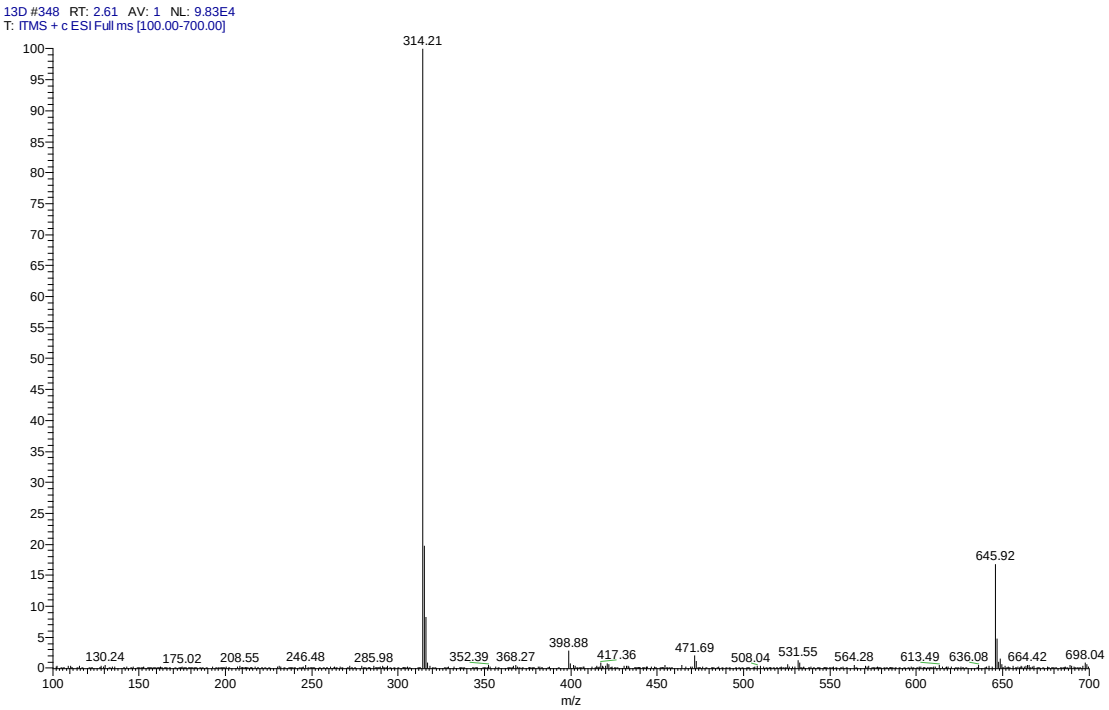
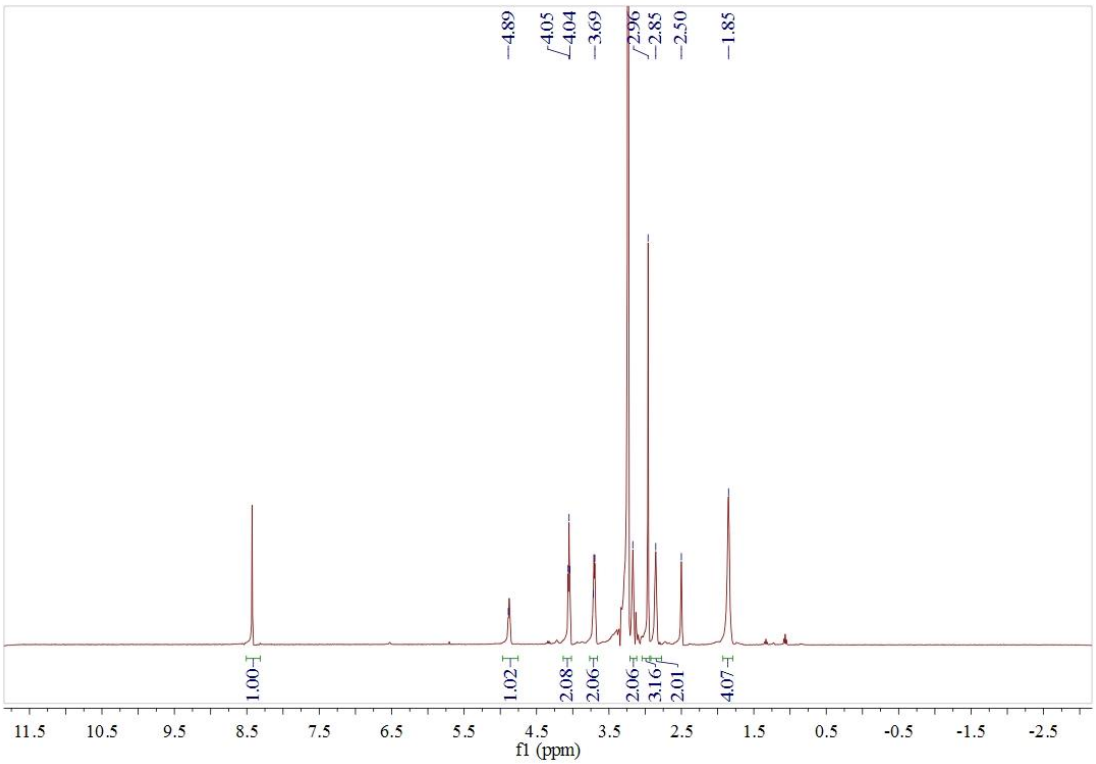


MS spectrum of compound **5d**



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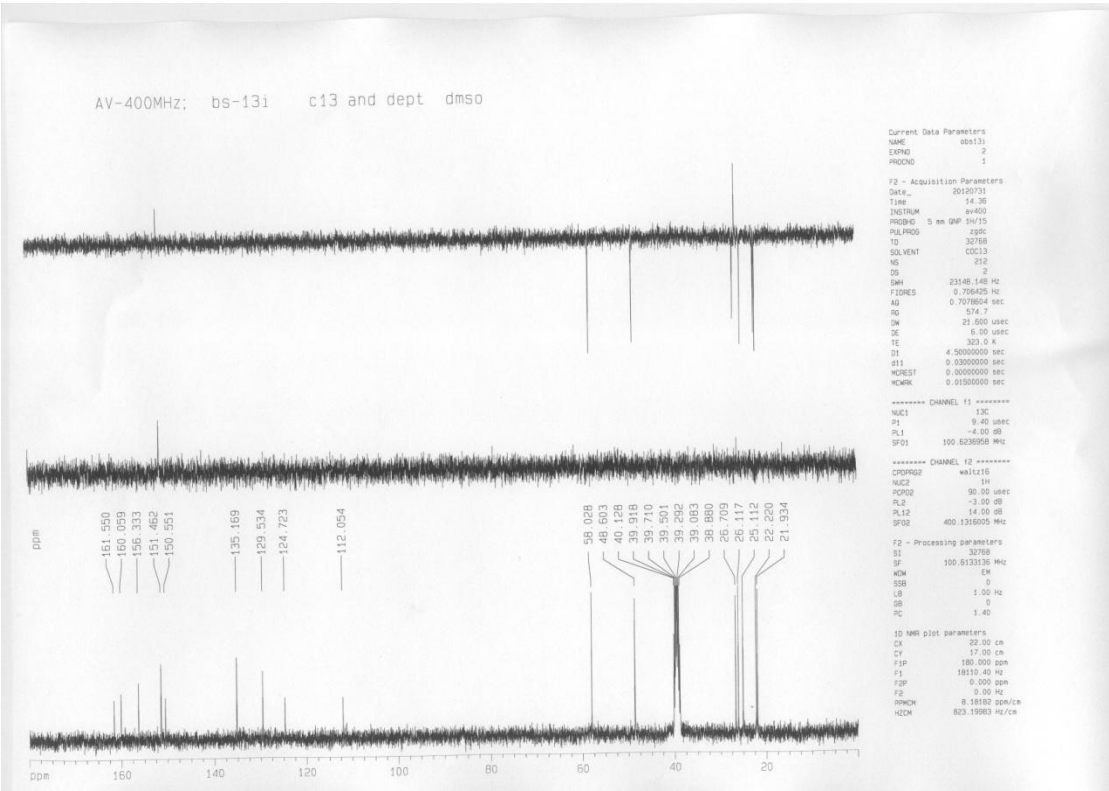

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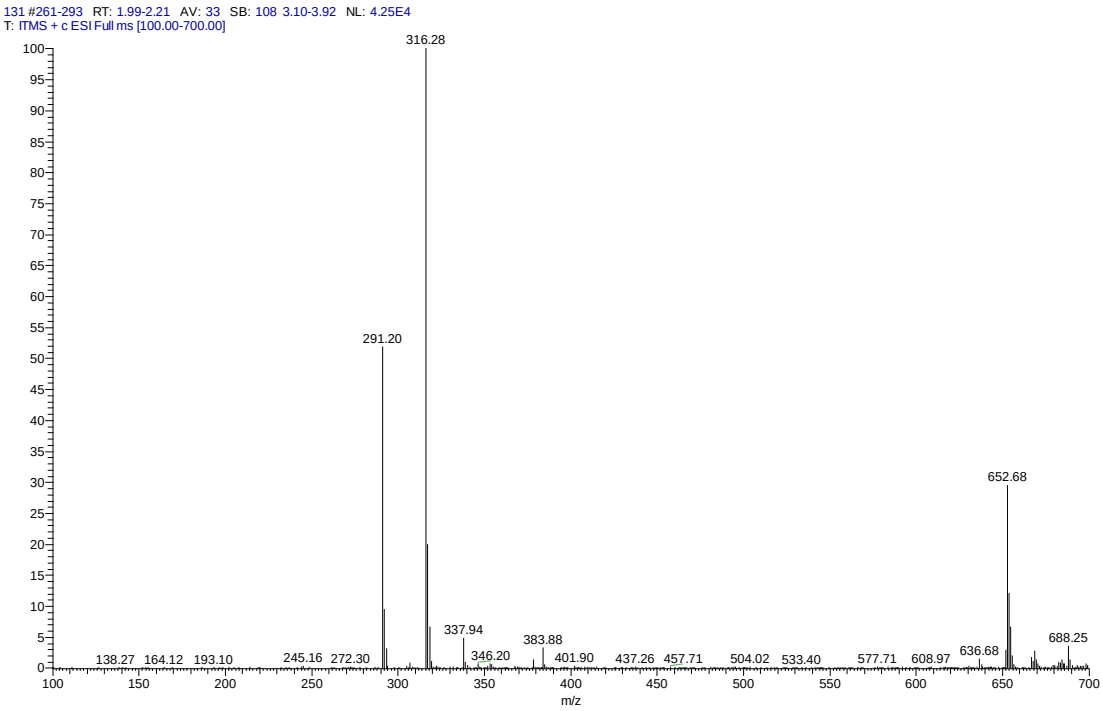
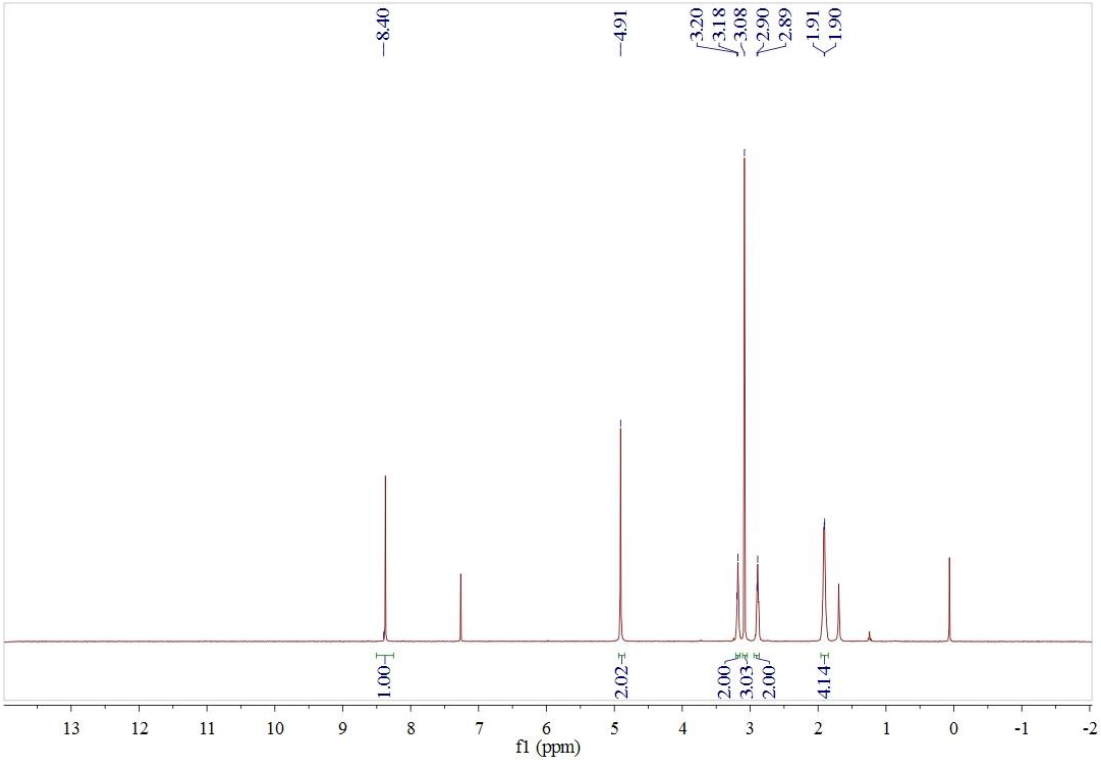


MS spectrum of compound **5e**



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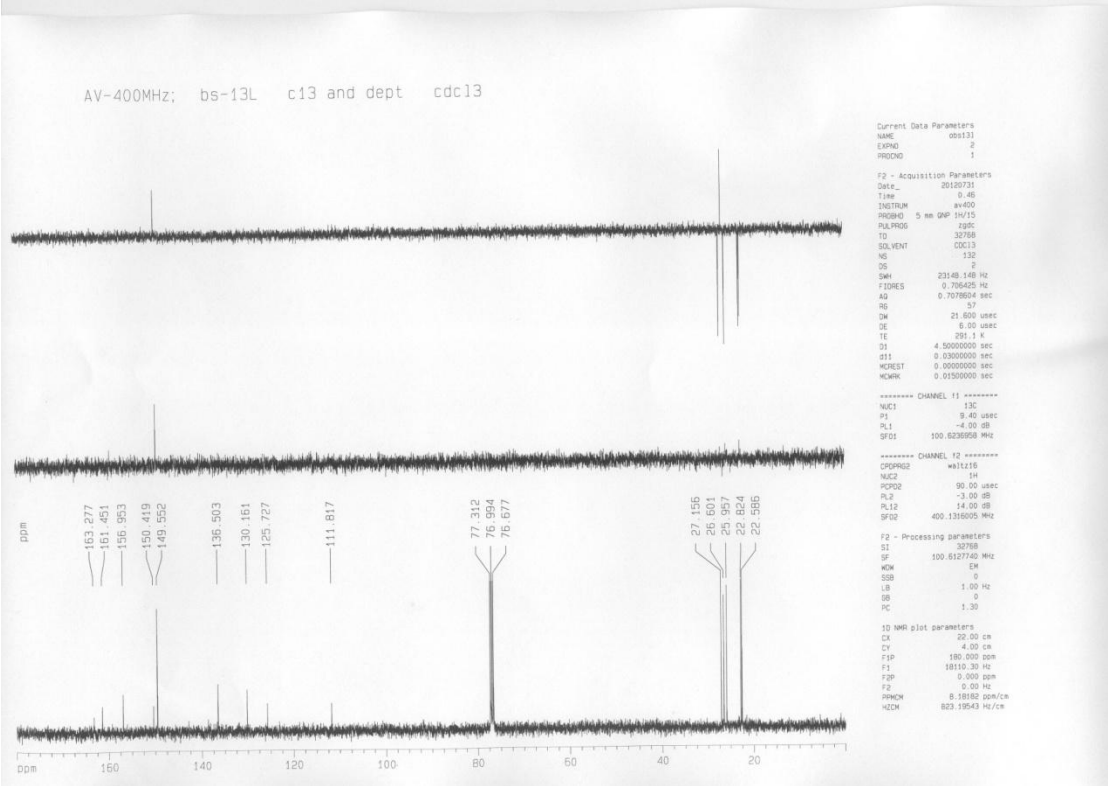

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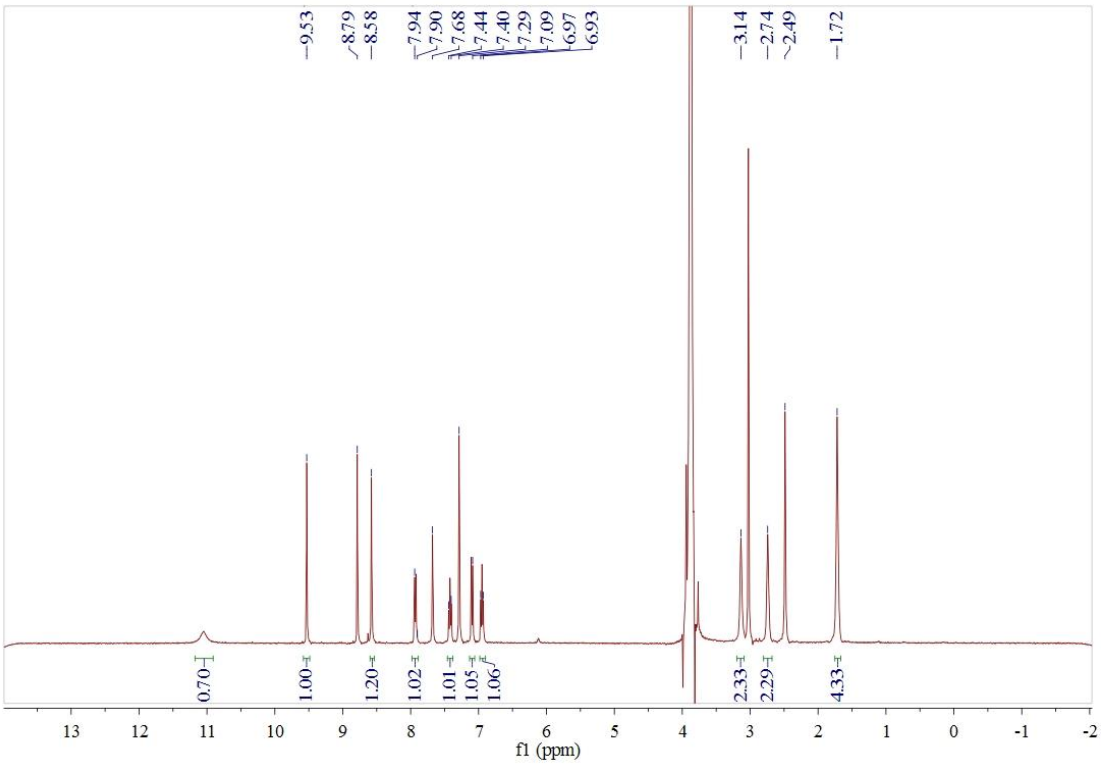
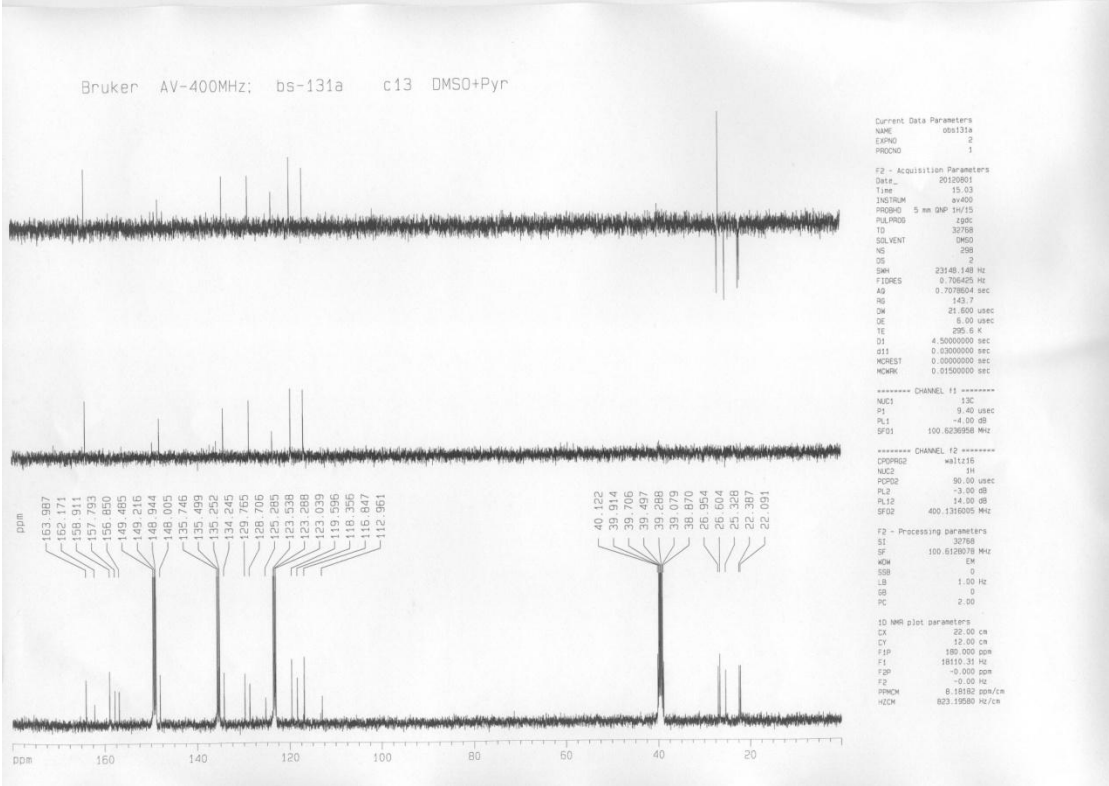


^{1}H NMR spectrum of compound **7a**



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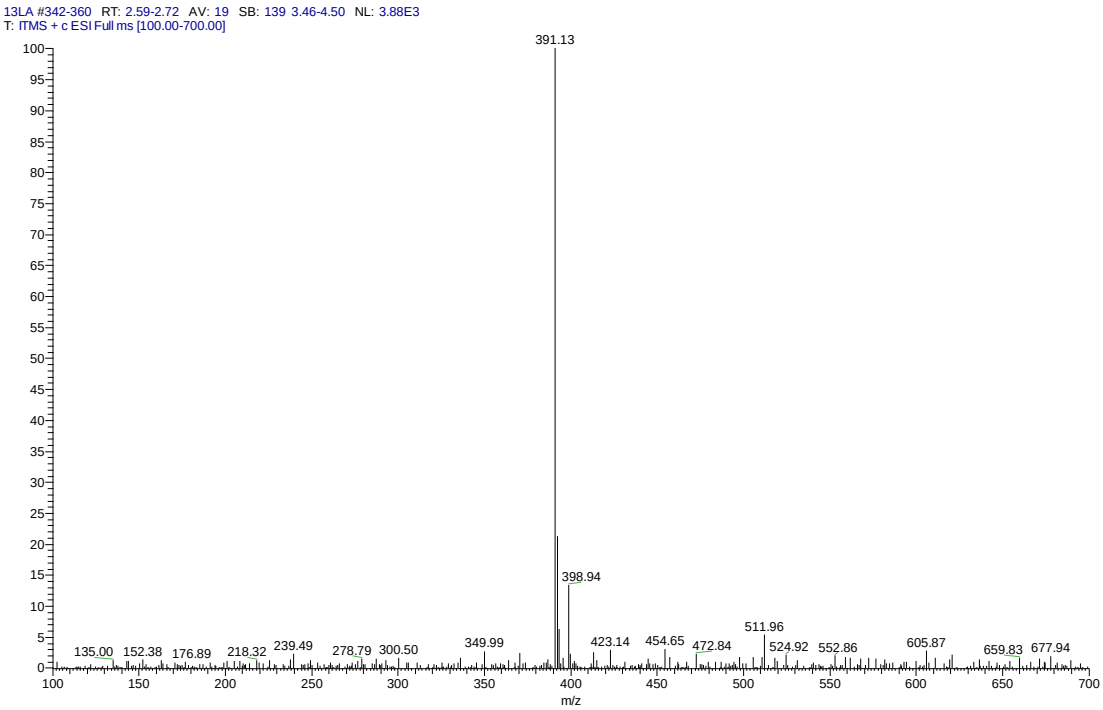

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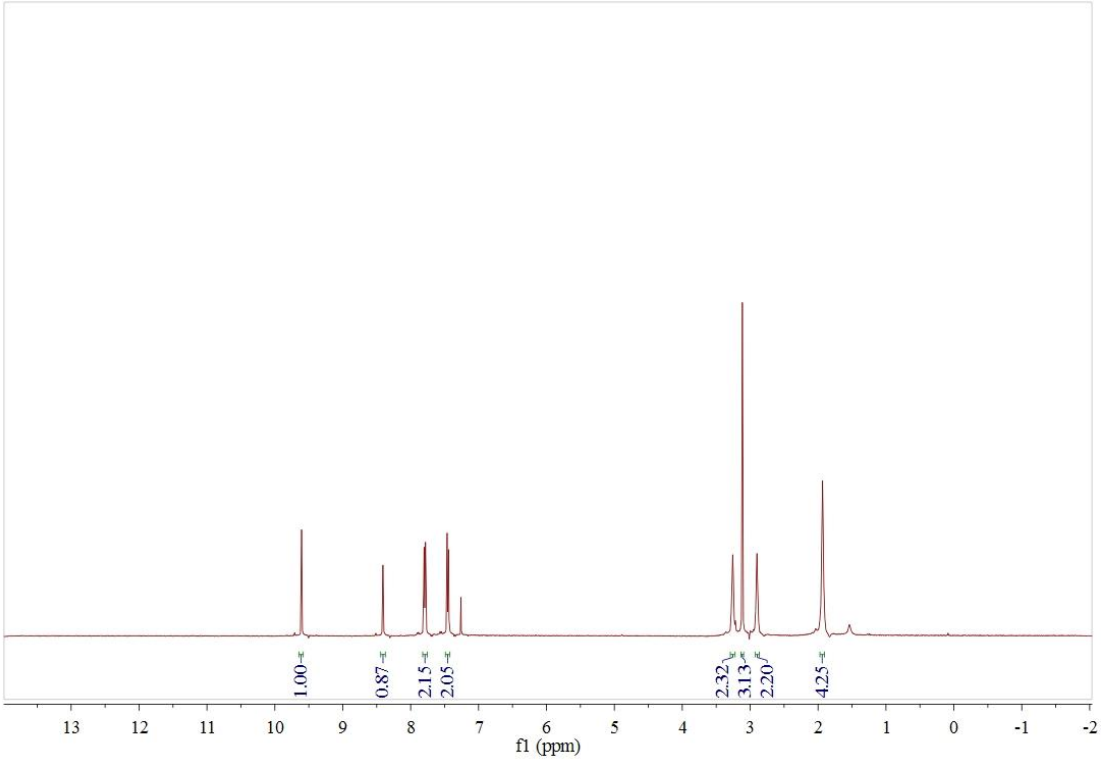

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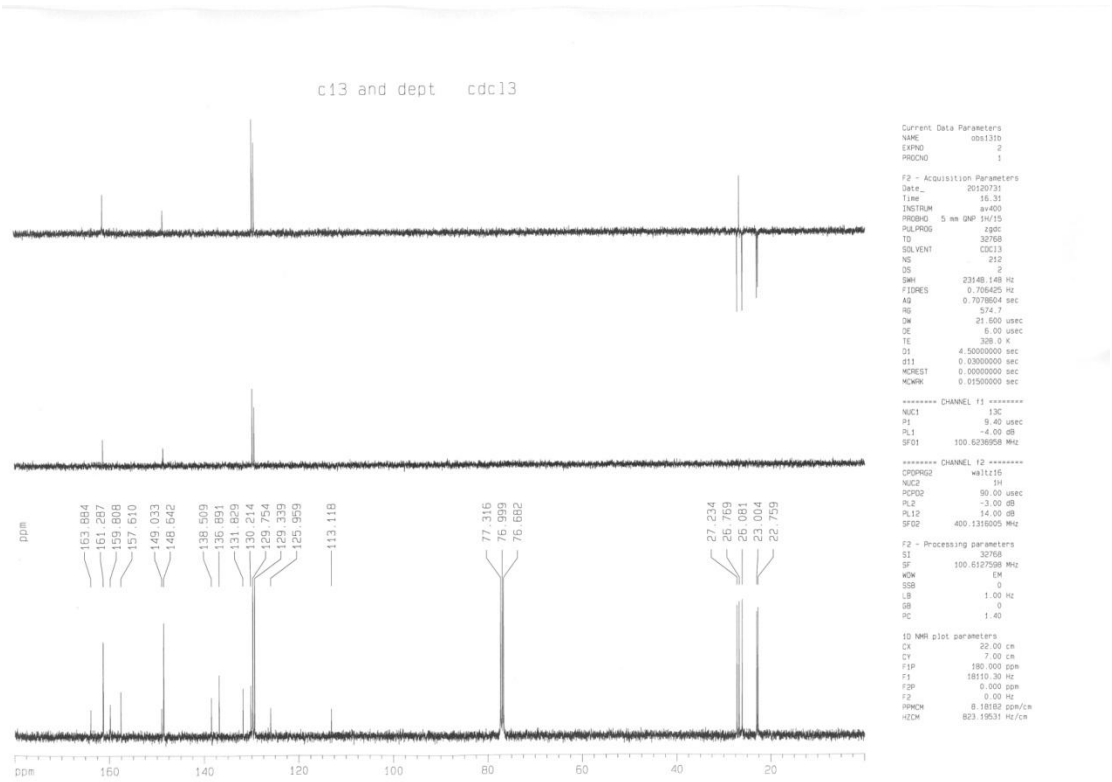
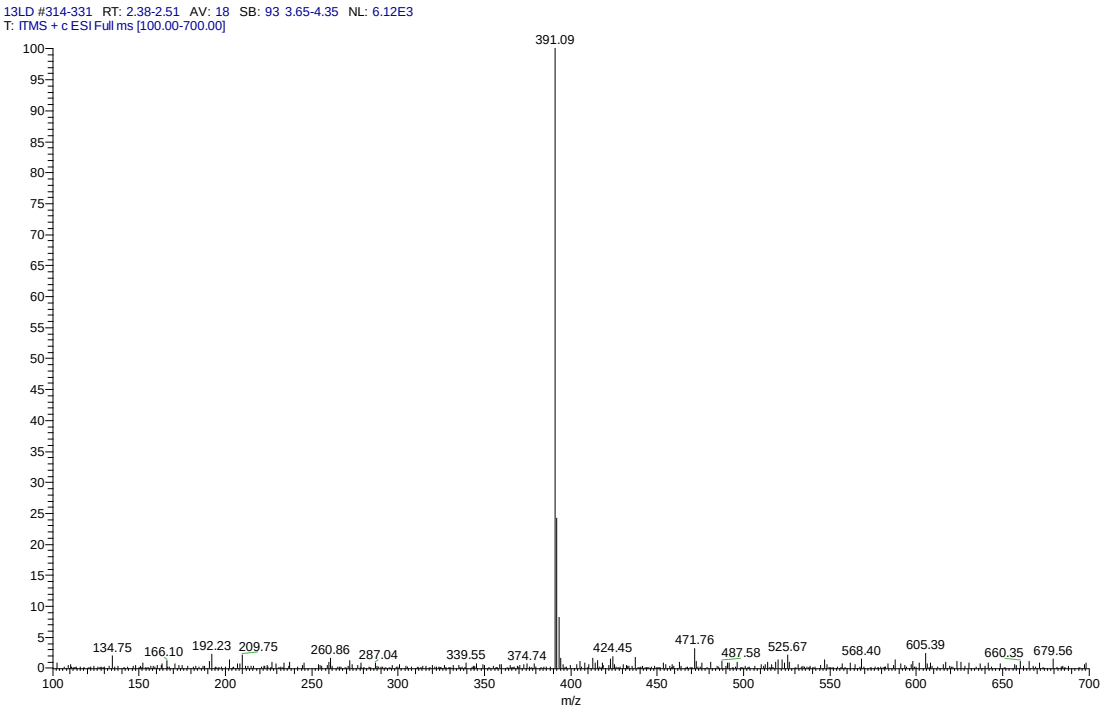
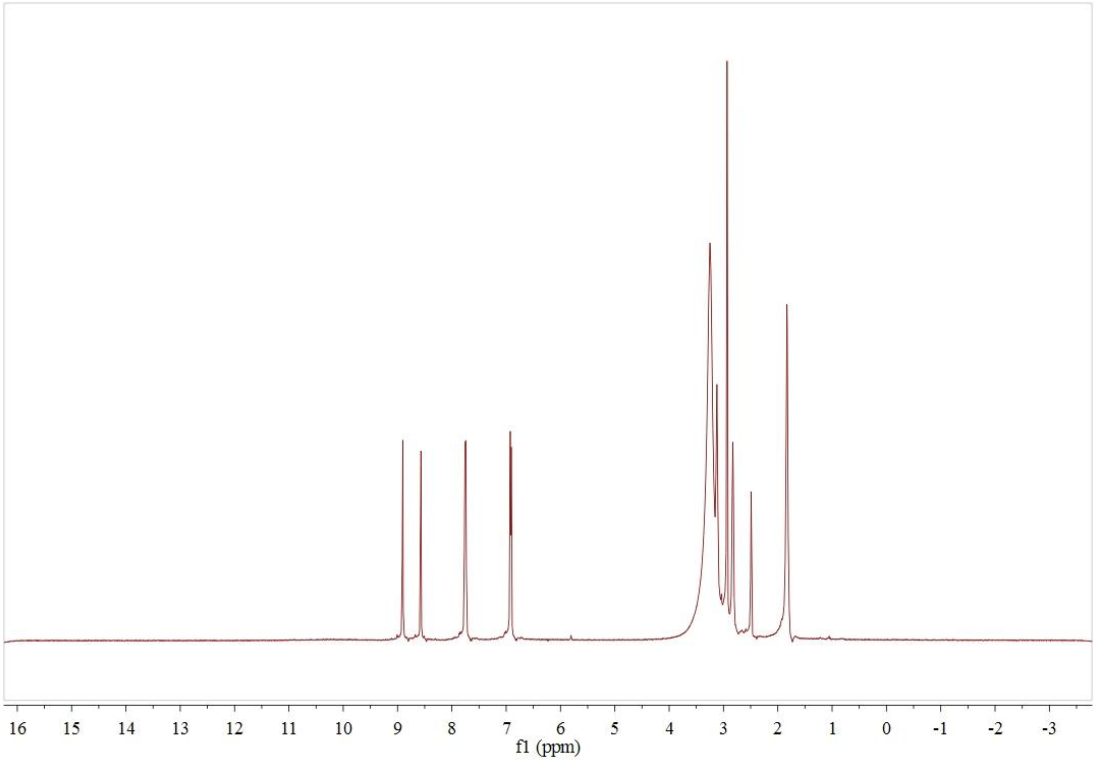


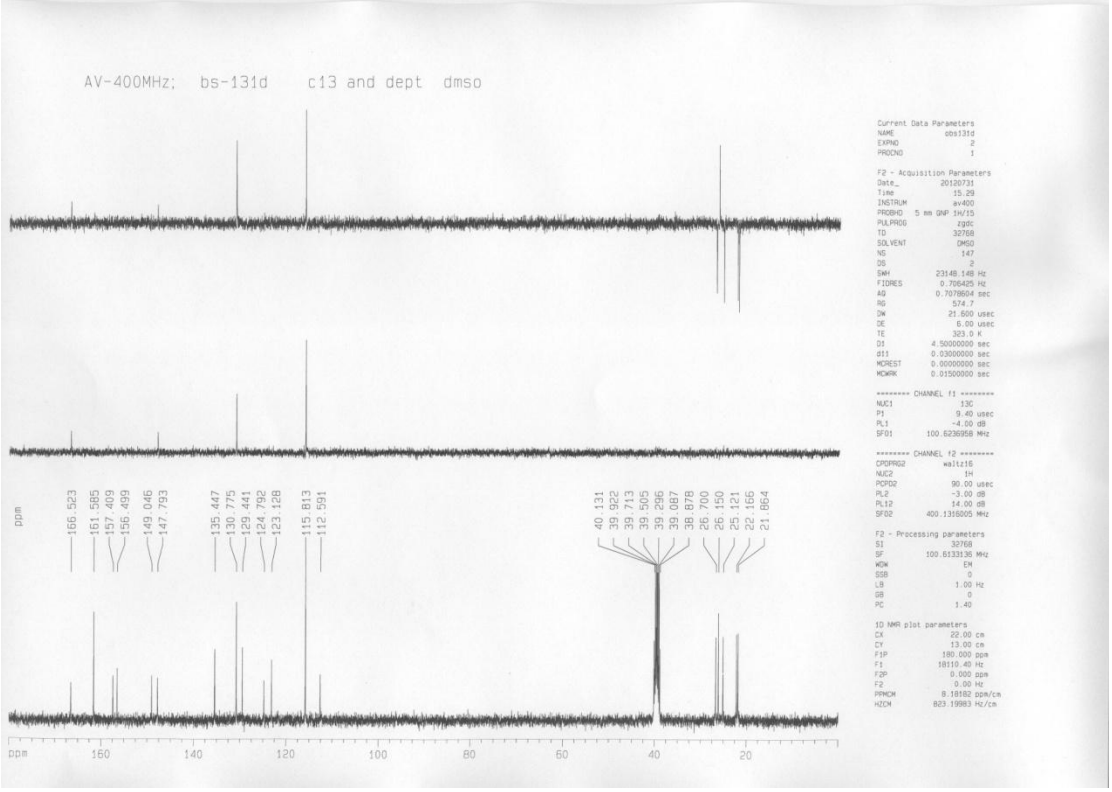
^{13}C NMR spectrum of compound **7b**



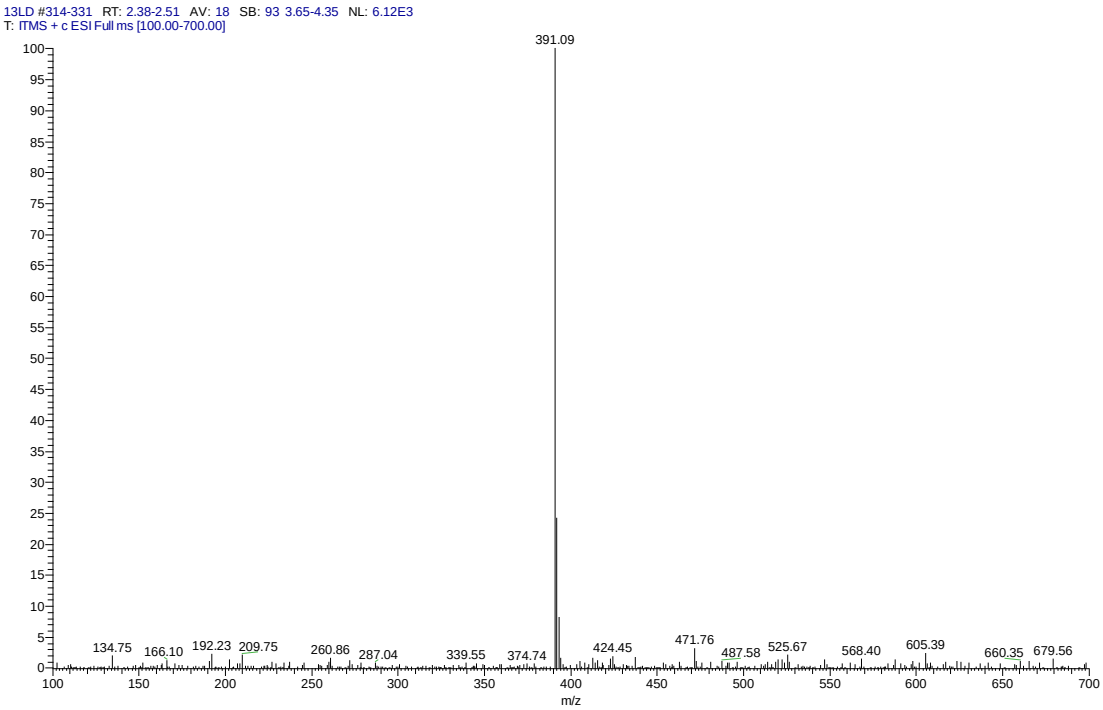
MS spectrum of compound **7b**



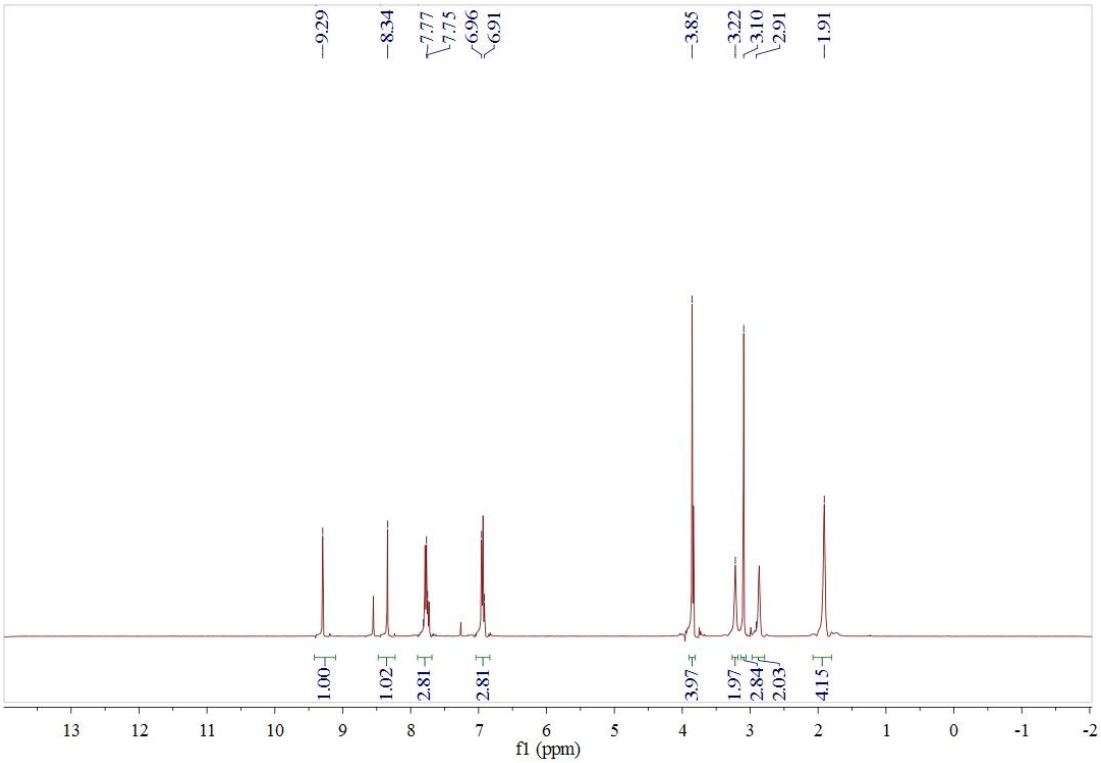
^{1}H NMR spectrum of compound **7c**



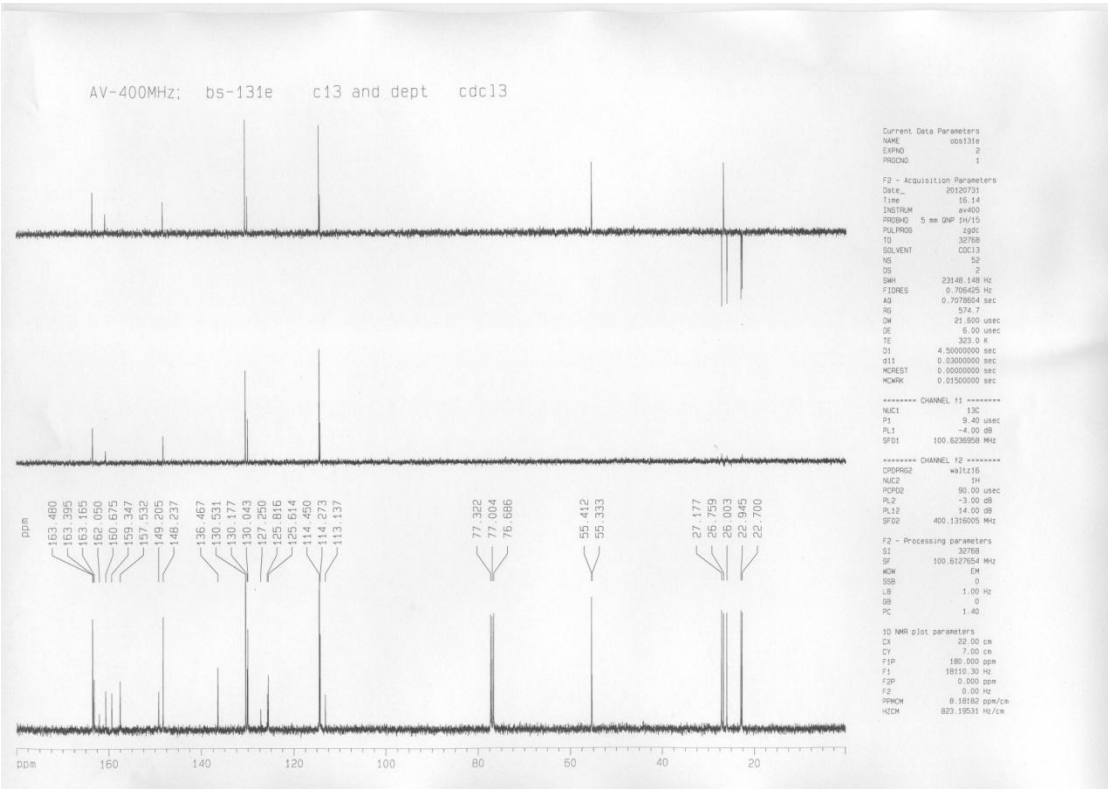
^{13}C NMR spectrum of compound **7c**



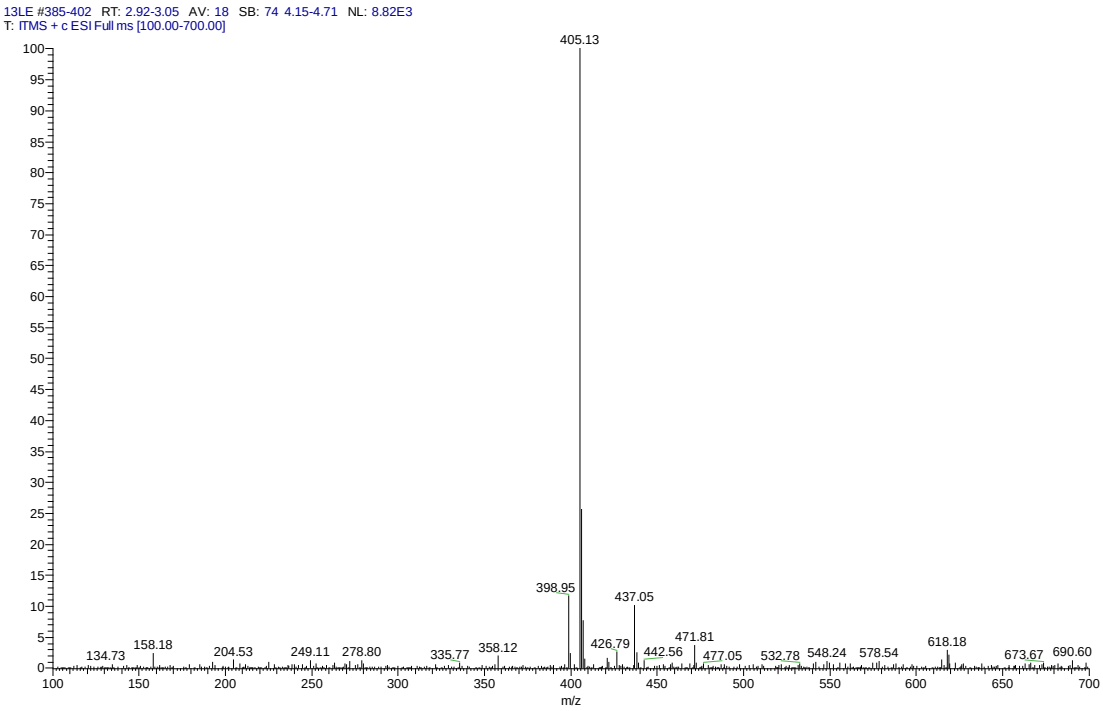
MS spectrum of compound **7c**



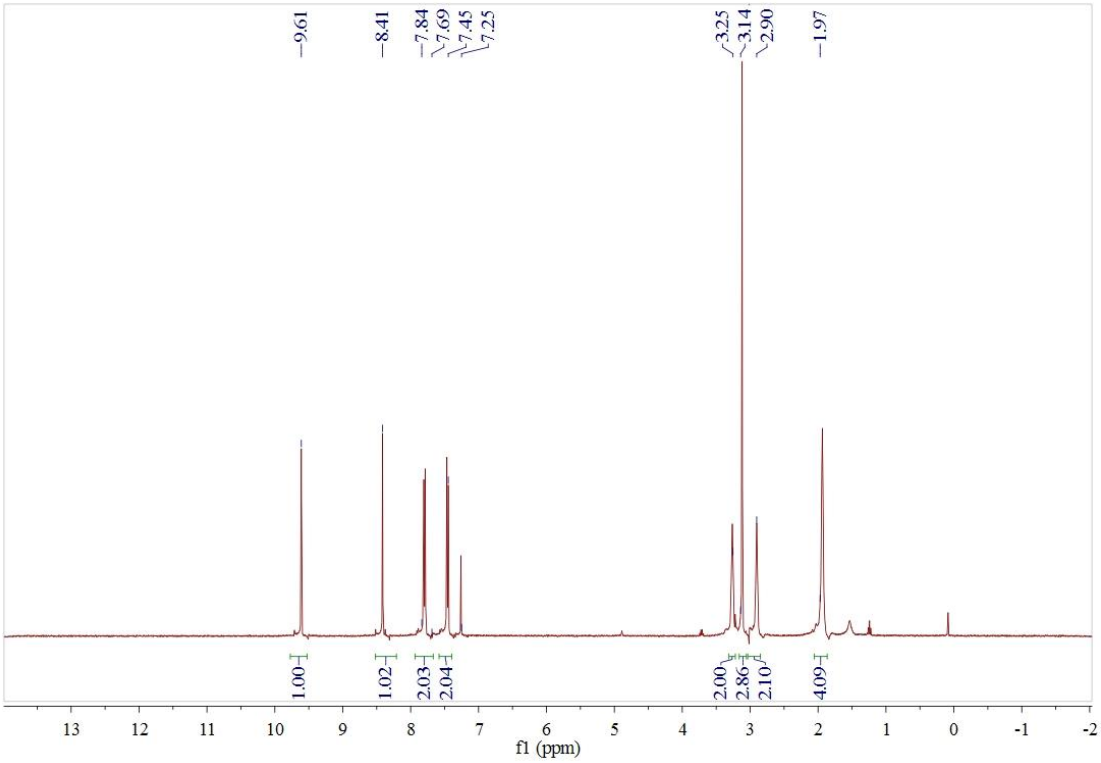
^{1}H NMR spectrum of compound **7d**



^{13}C NMR spectrum of compound **7d**



MS spectrum of compound **7d**



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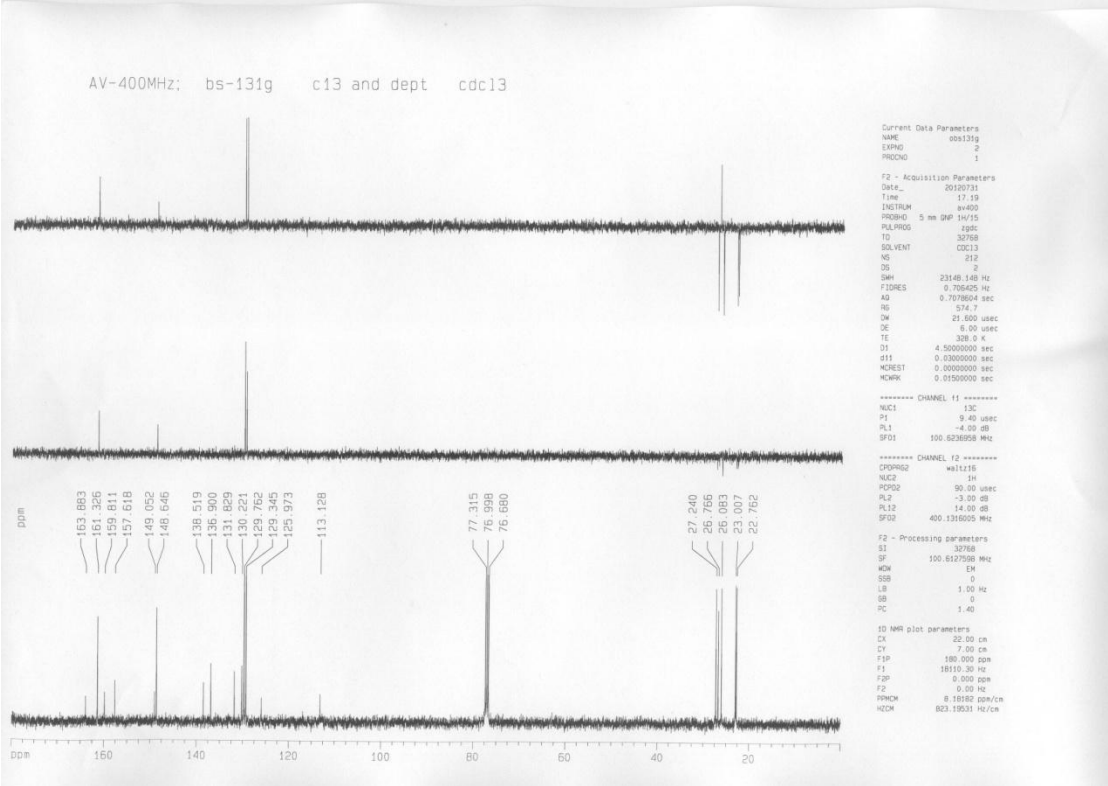
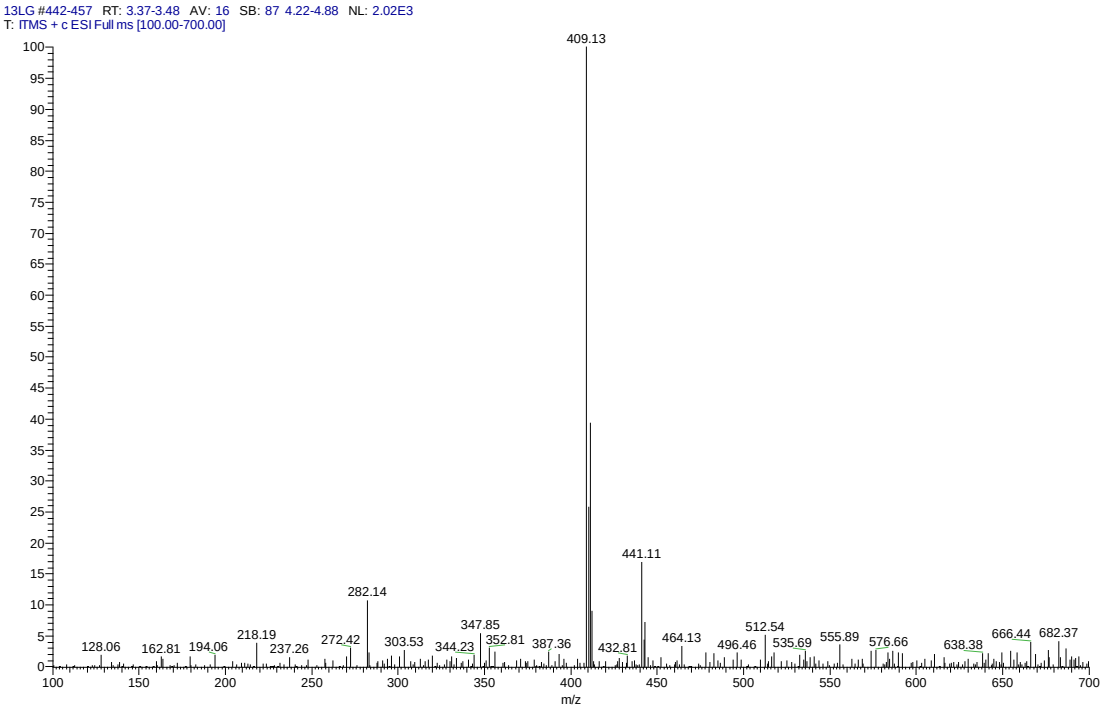


^{13}C NMR spectrum of compound **7e**



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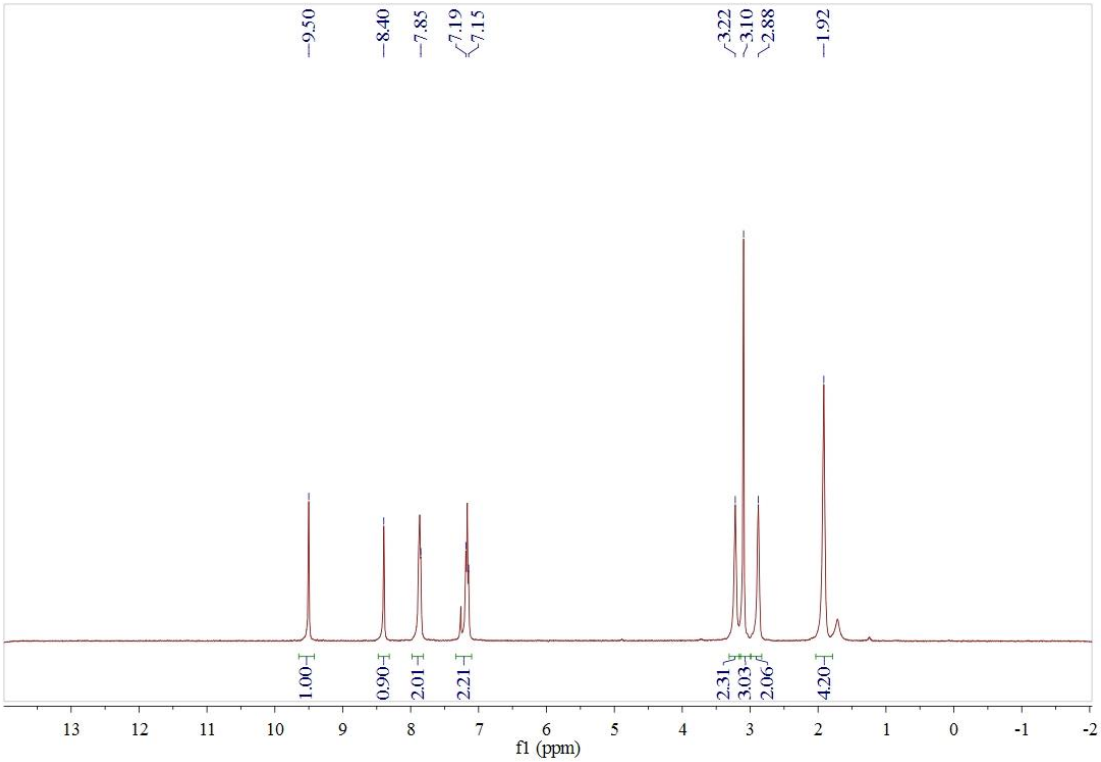

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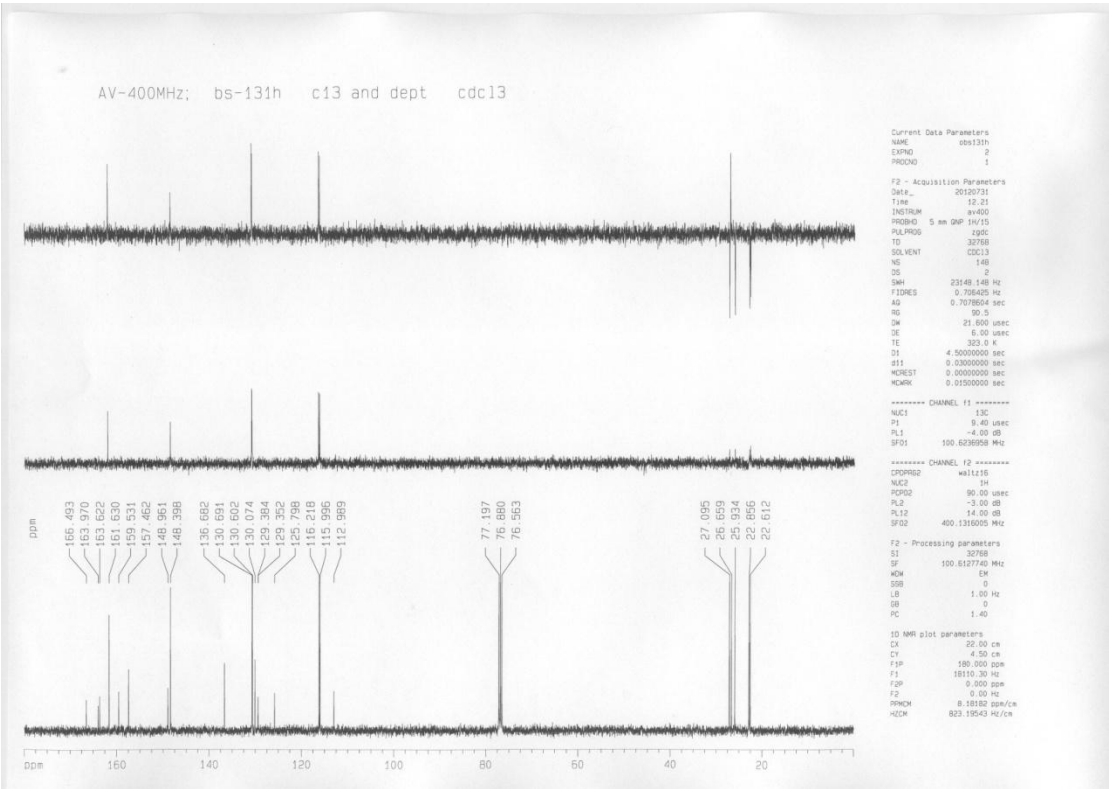

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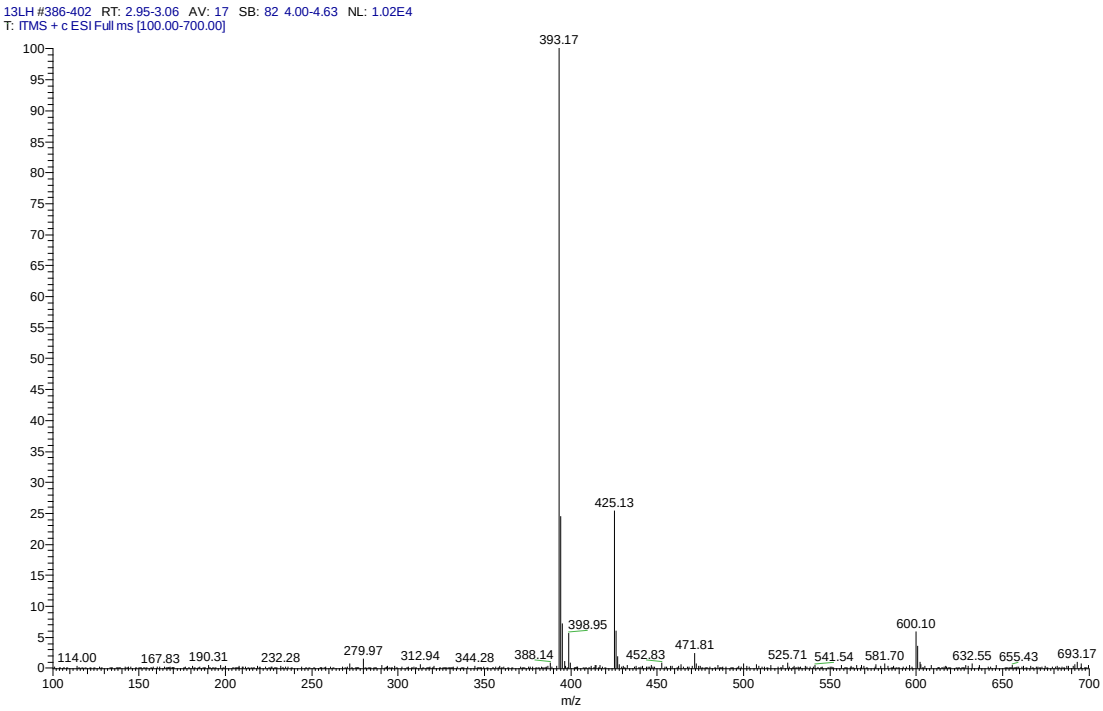
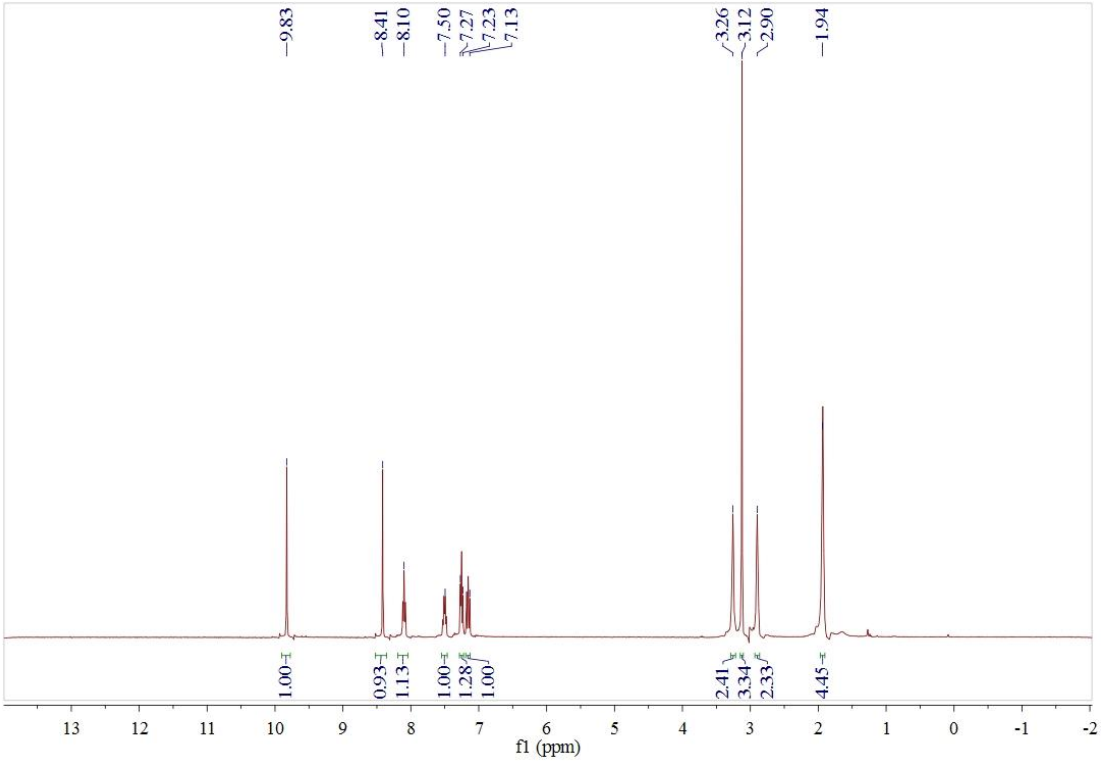


MS spectrum of compound **7f**



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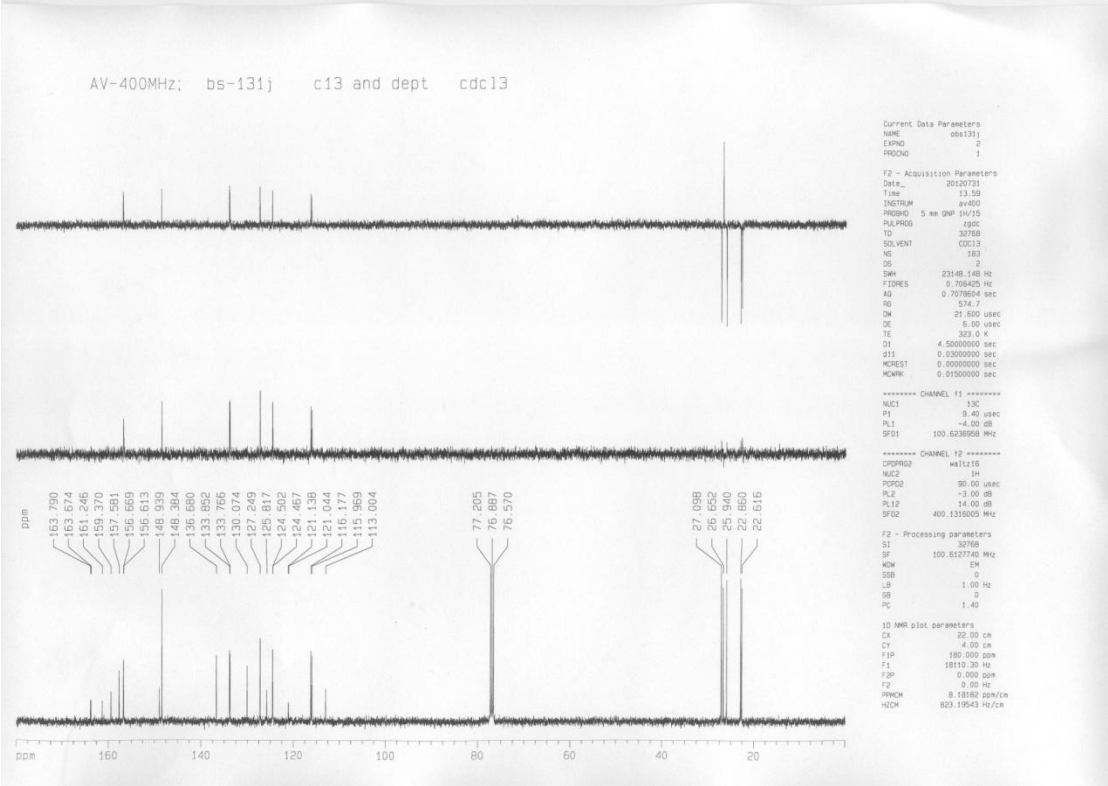
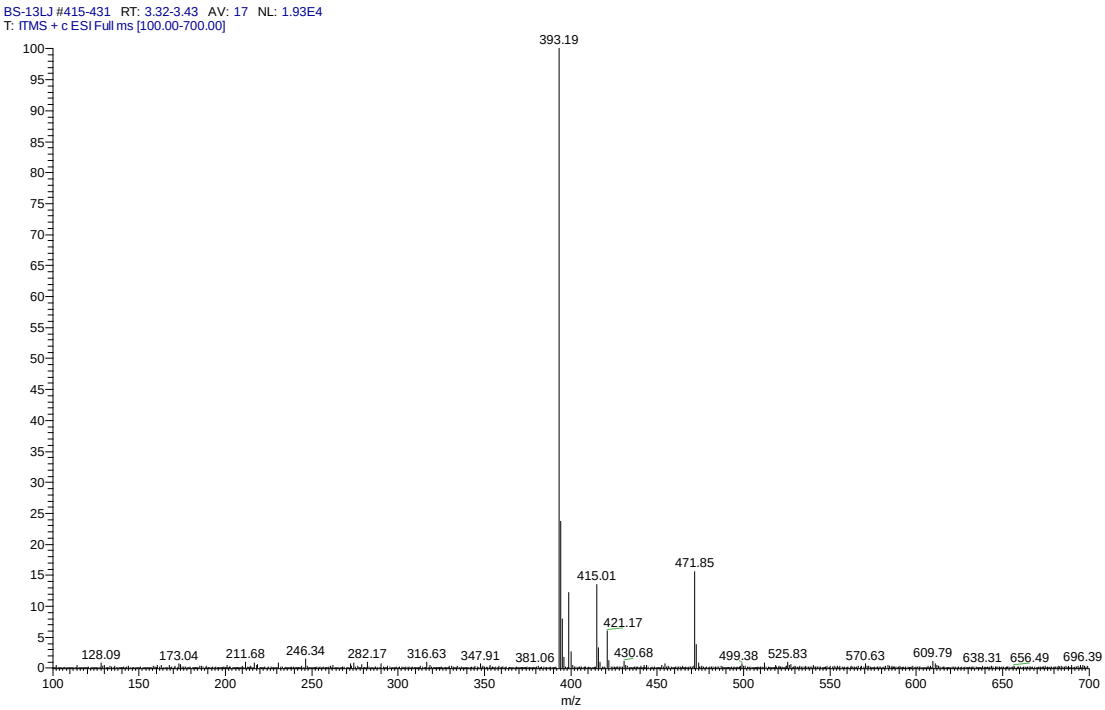


^{13}C NMR spectrum of compound **7g**



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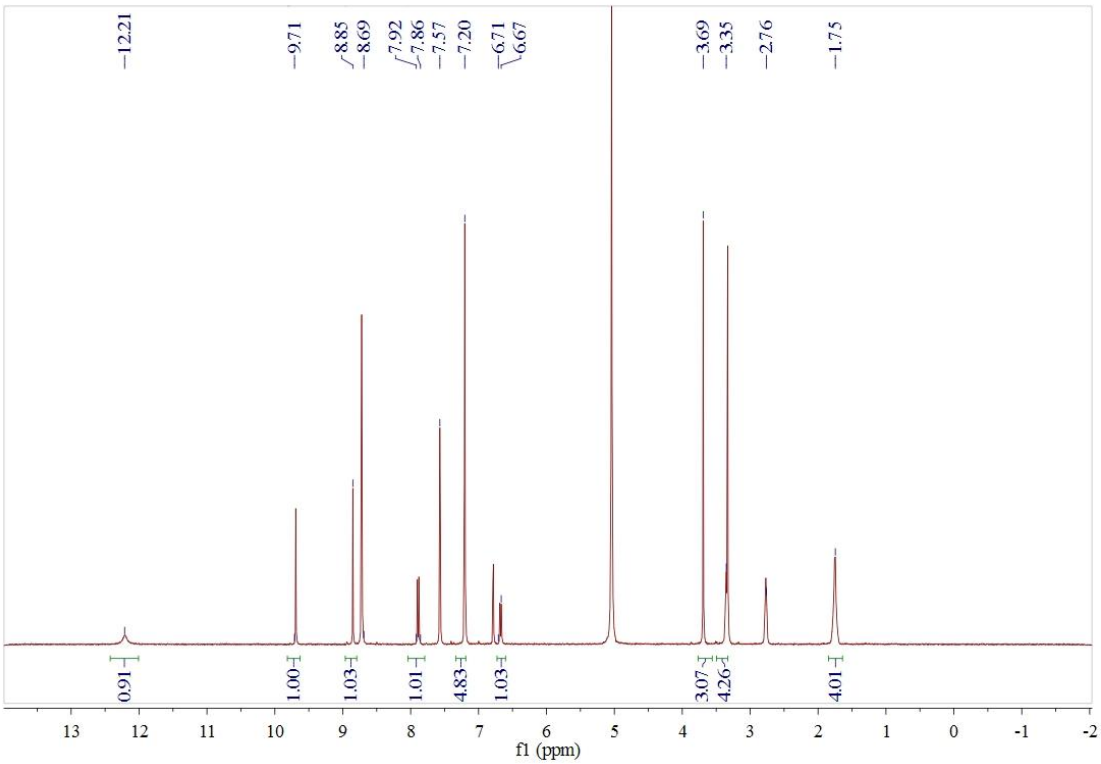

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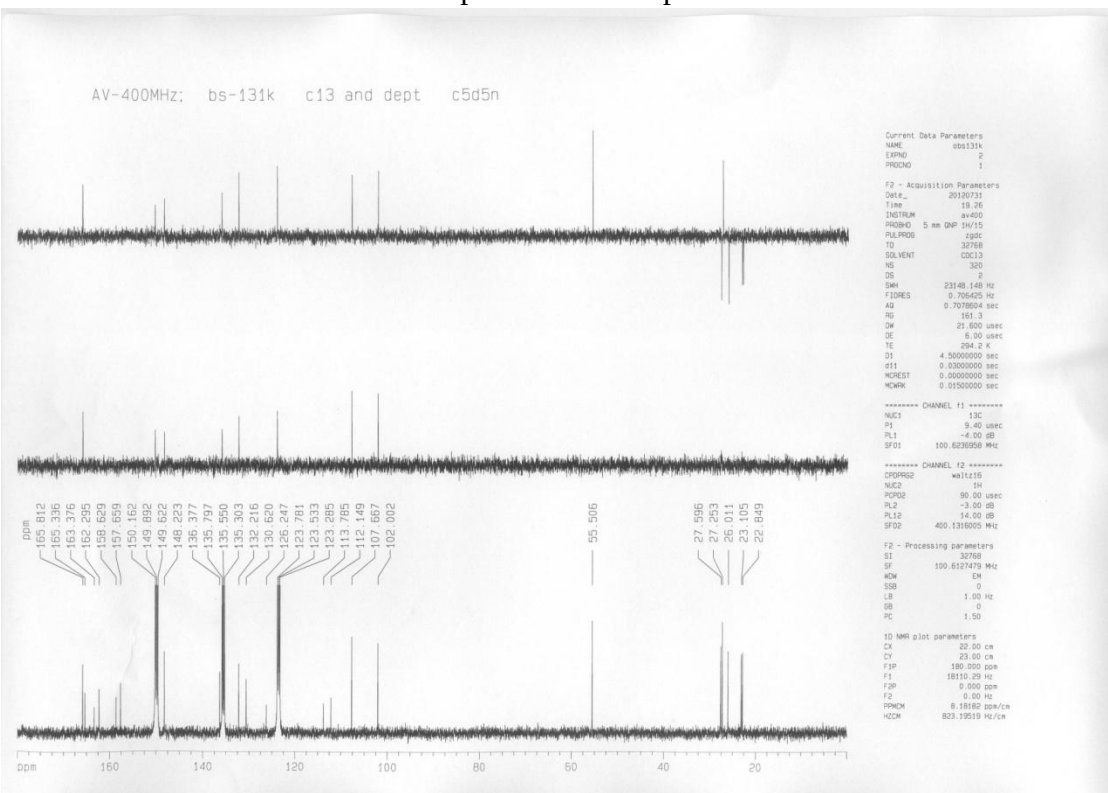
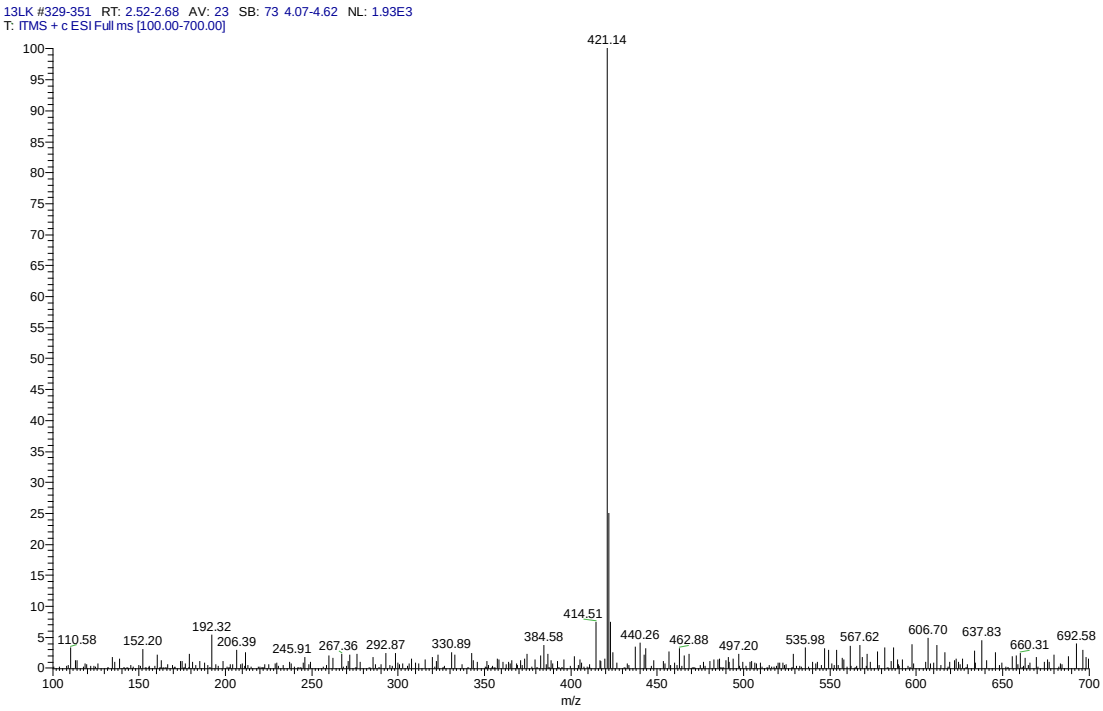
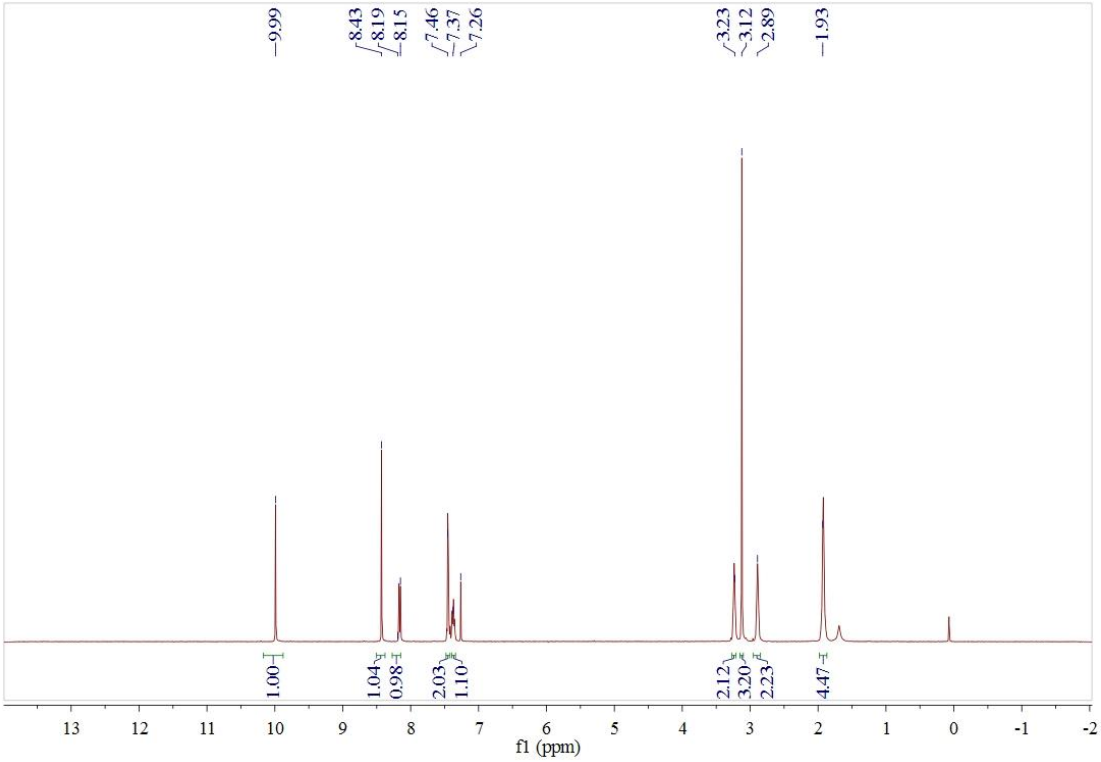


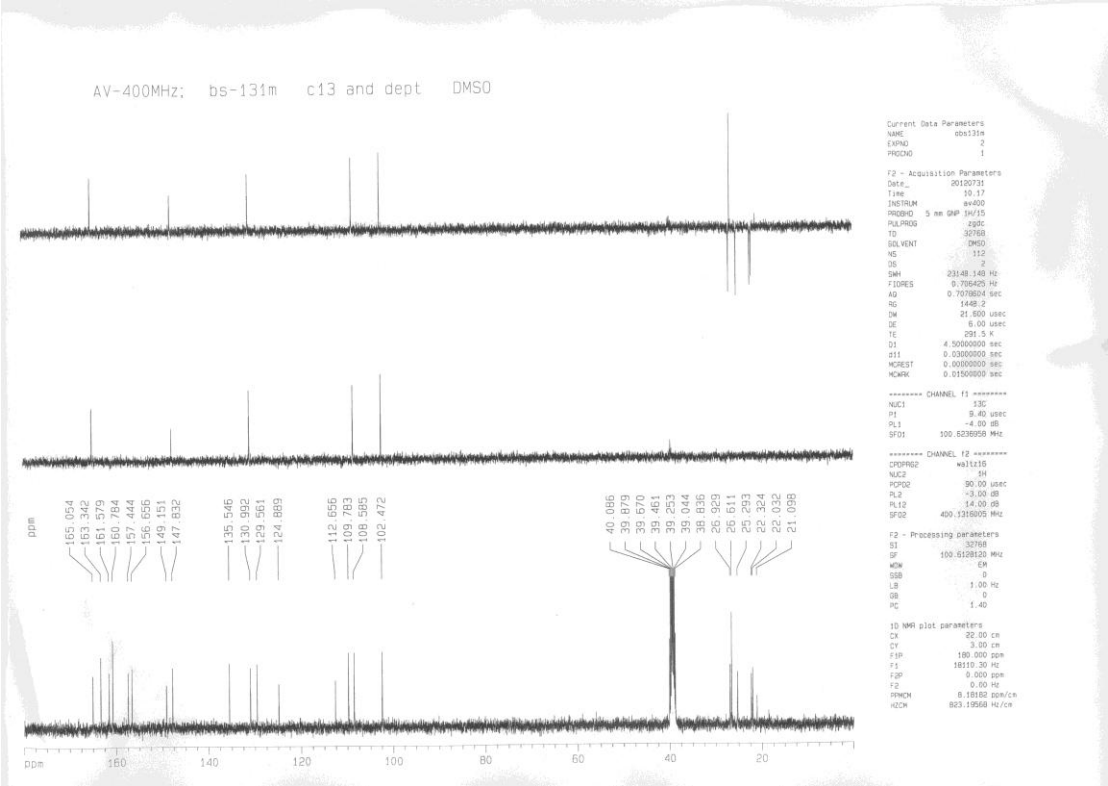
^{13}C NMR spectrum of compound **7h**



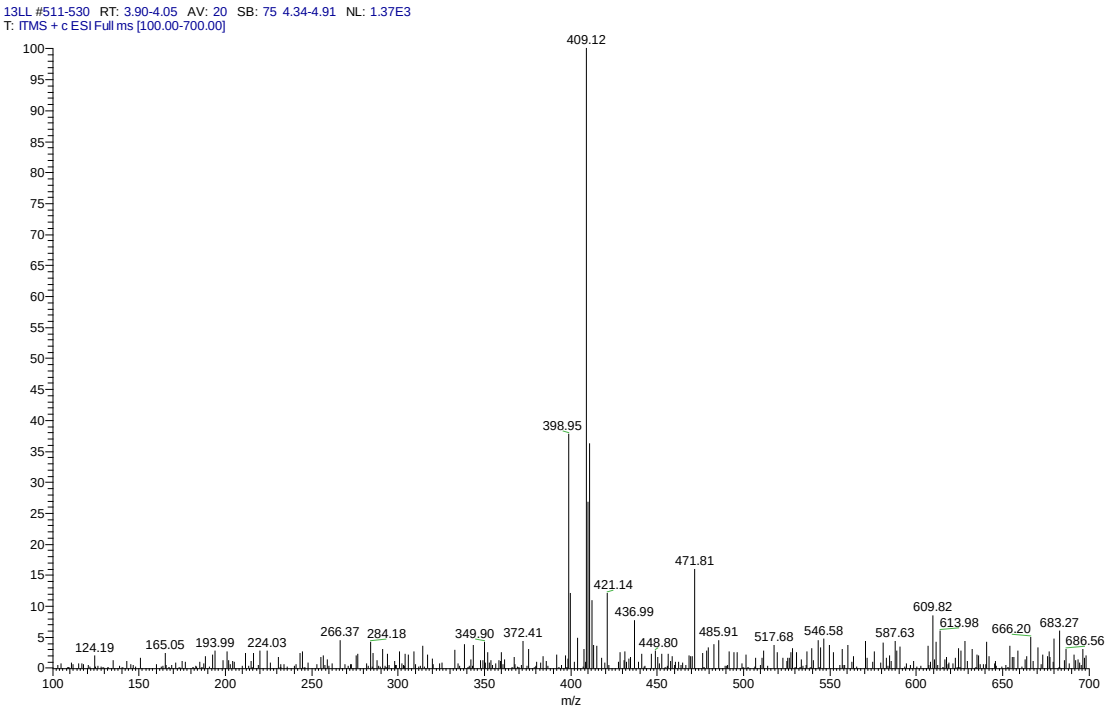
MS spectrum of compound **7h**



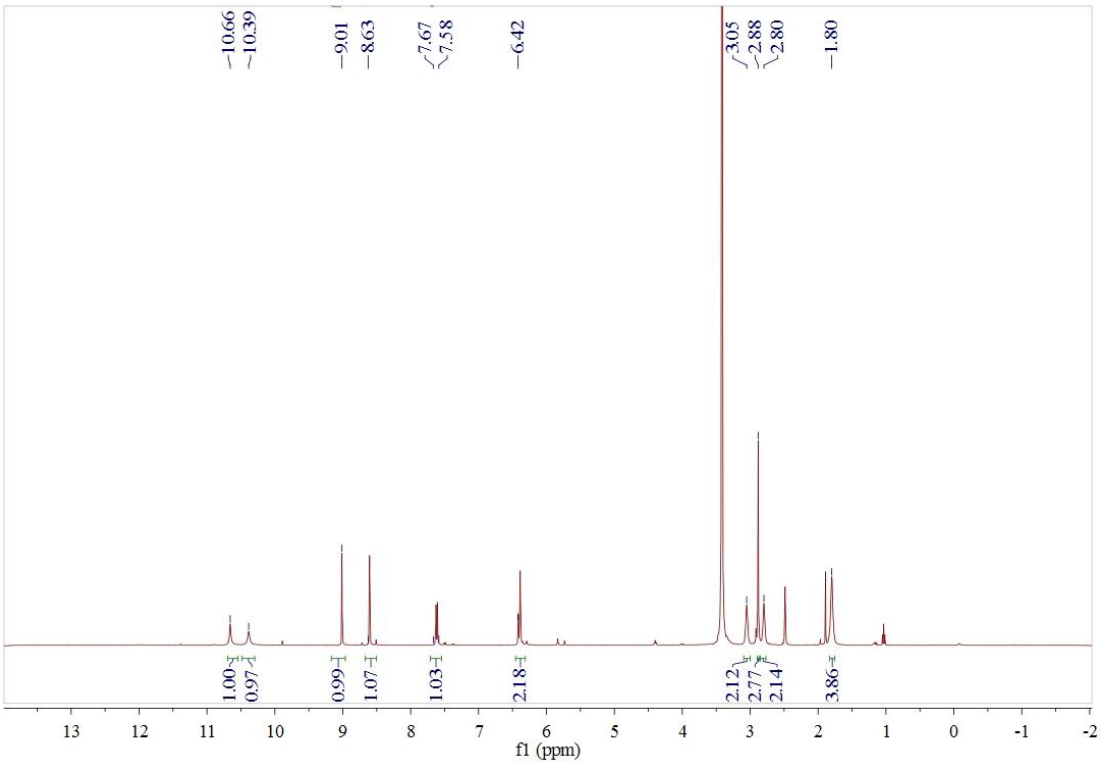
^{1}H NMR spectrum of compound **7i**



^{13}C NMR spectrum of compound **7i**



MS spectrum of compound **7i**



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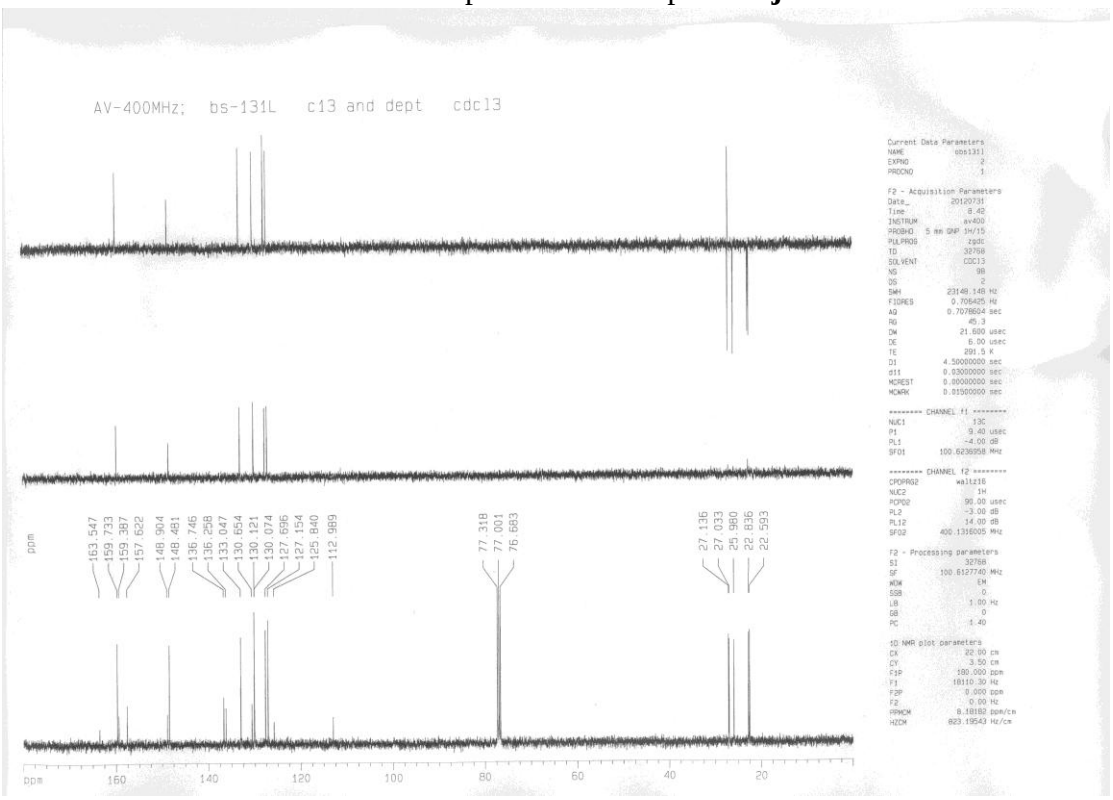

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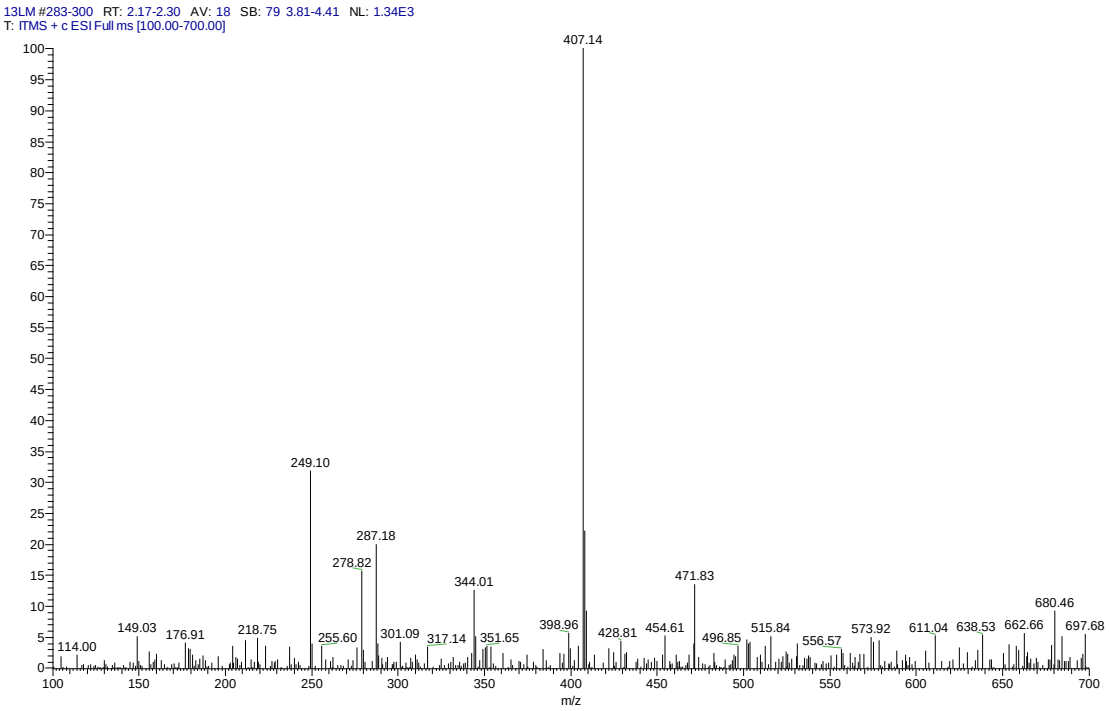

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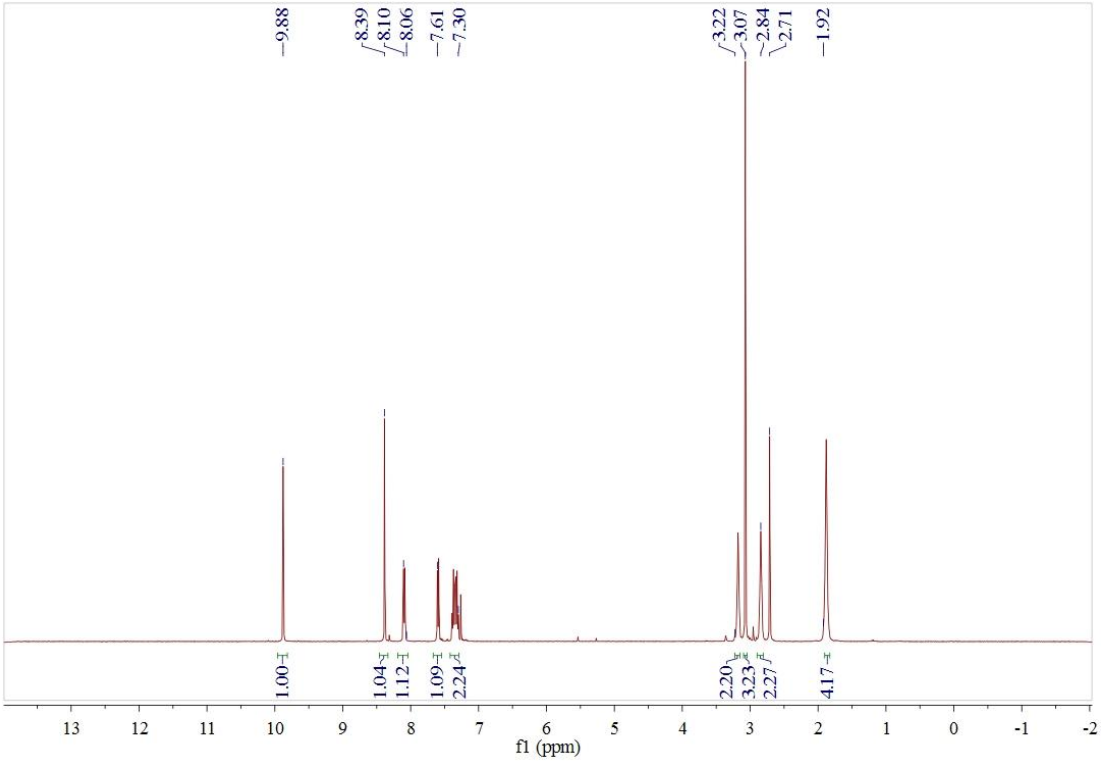
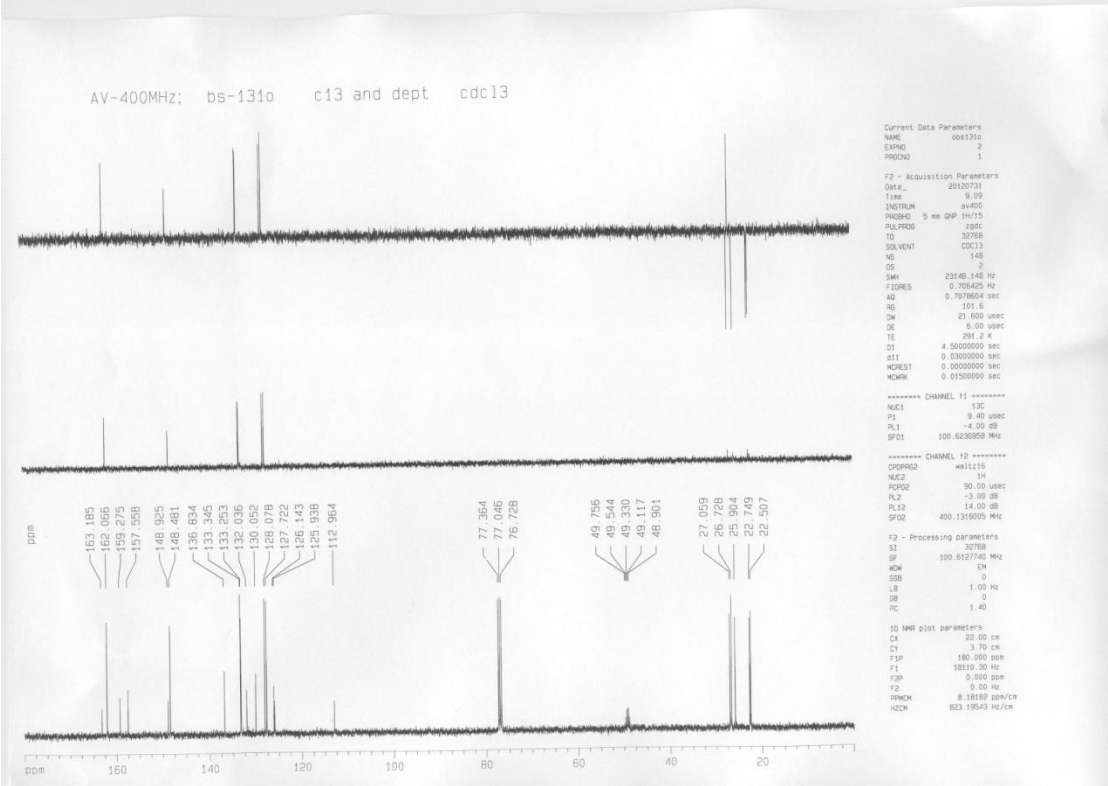
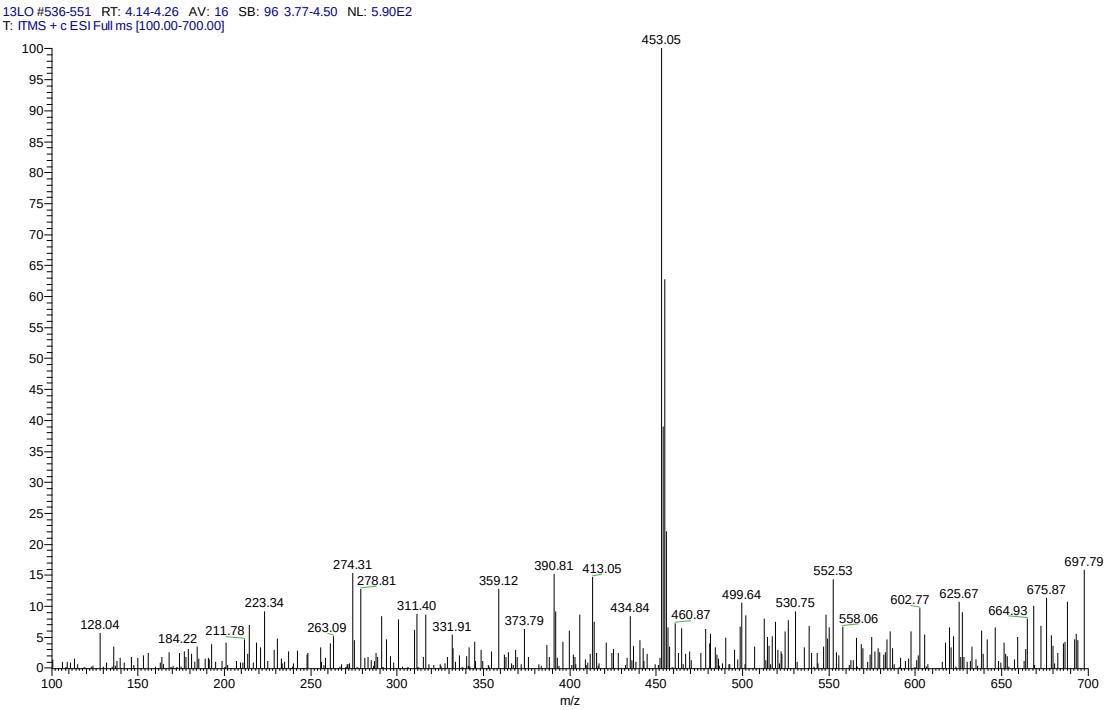


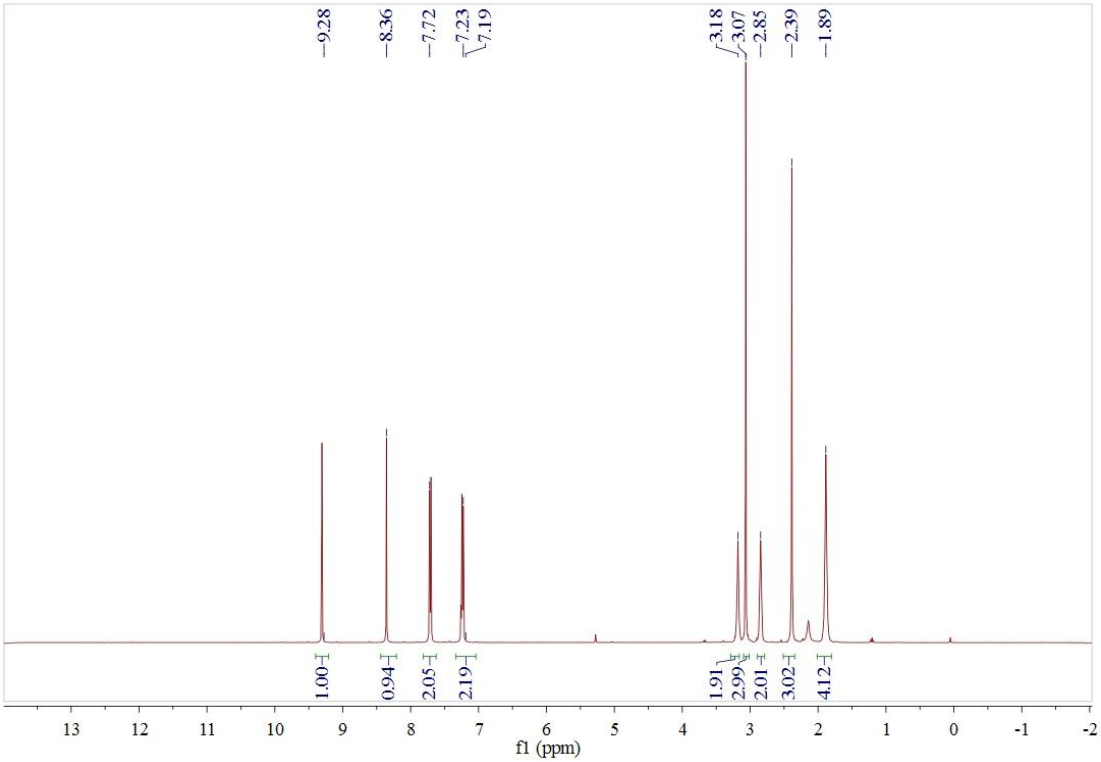
^{1}H NMR spectrum of compound **7k**



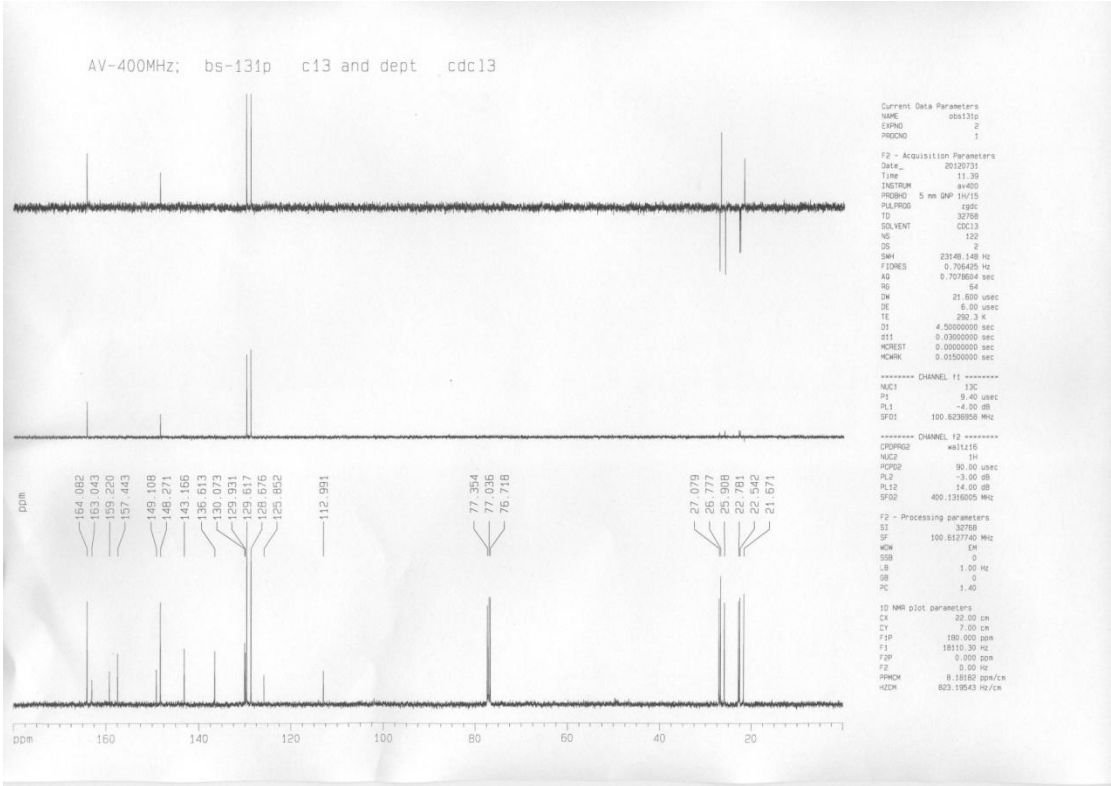
^{13}C NMR spectrum of compound **7k**



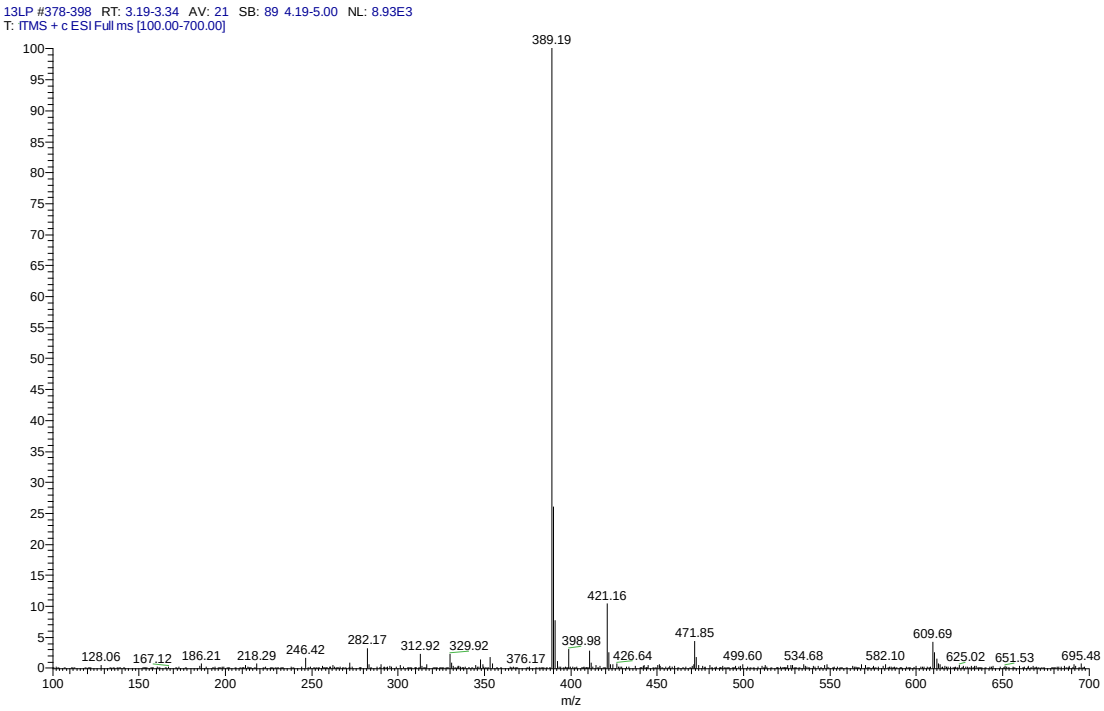
MS spectrum of compound **7k**



^{1}H NMR spectrum of compound **7l**



^{13}C NMR spectrum of compound **7l**



MS spectrum of compound **7l**