

Supporting Information for

***Synthesis of a new class of silsesquioxanes
with alkynyl and germlyl functionality***

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Adam Mickiewicz University in Poznan, Umultowska 89B, 61-614 Poznan, Poland.*

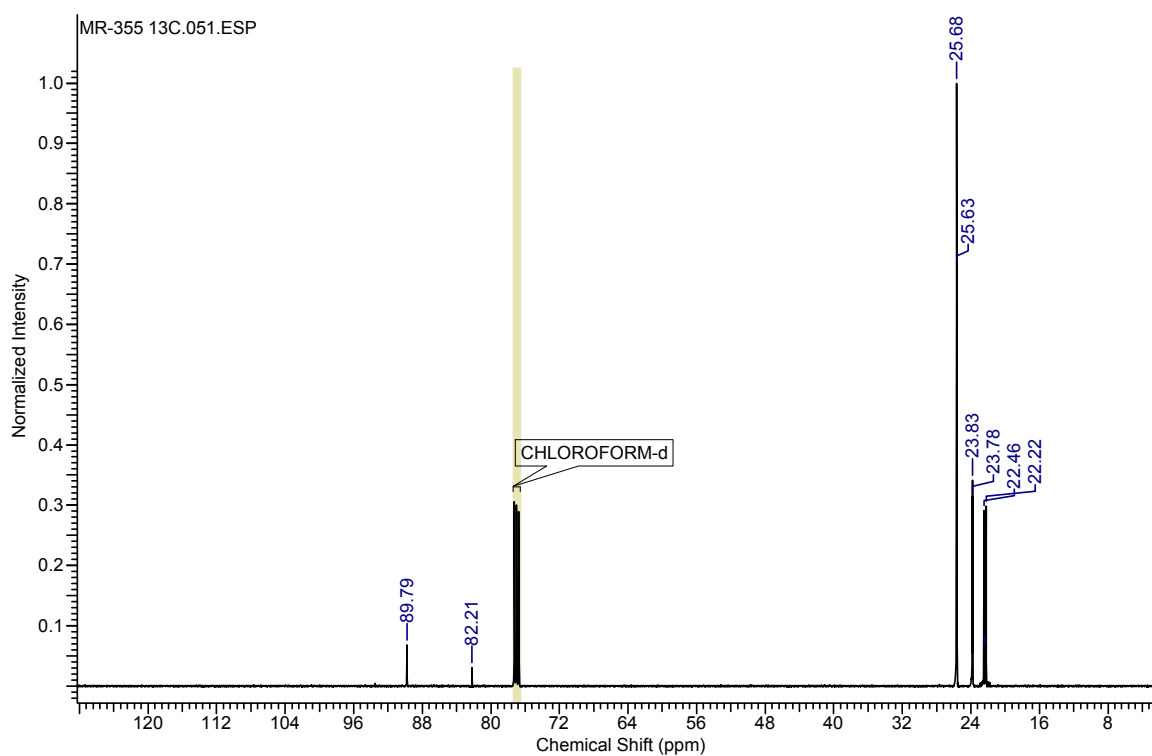
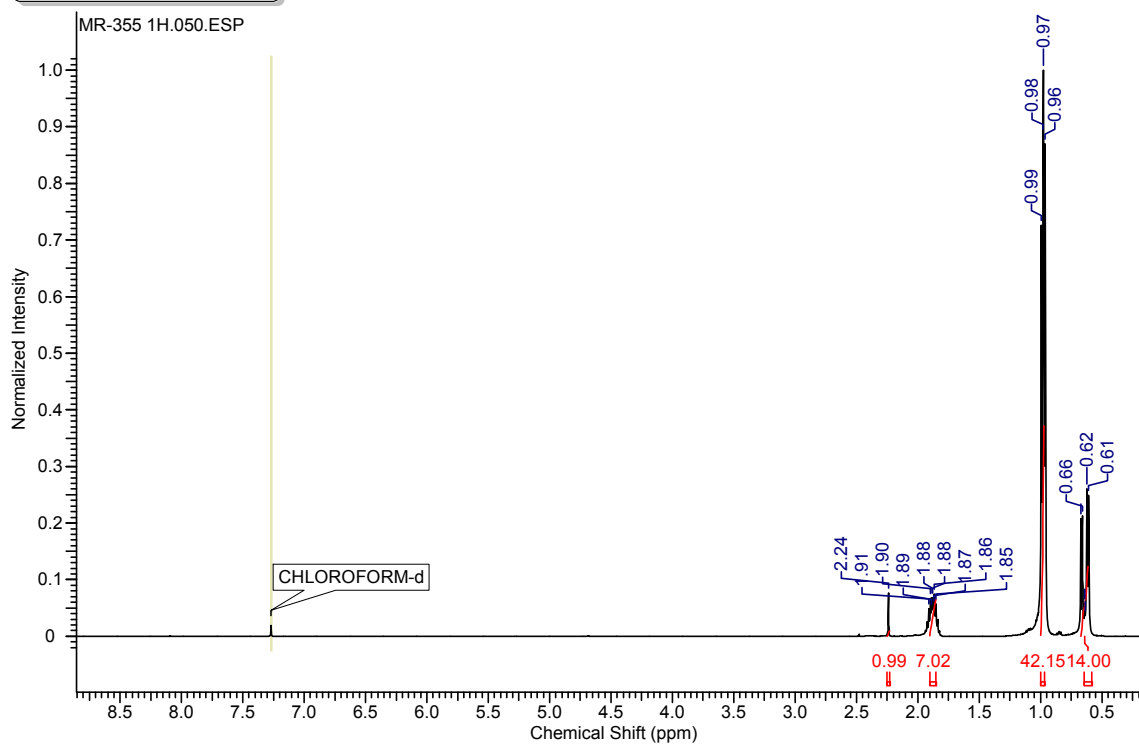
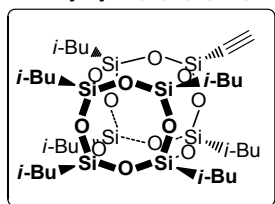
^b*Centre for Advanced Technologies, Adam Mickiewicz University in Poznan,
Umultowska 89C, 61-614 Poznan, Poland, Fax: (+48) 618291508.*

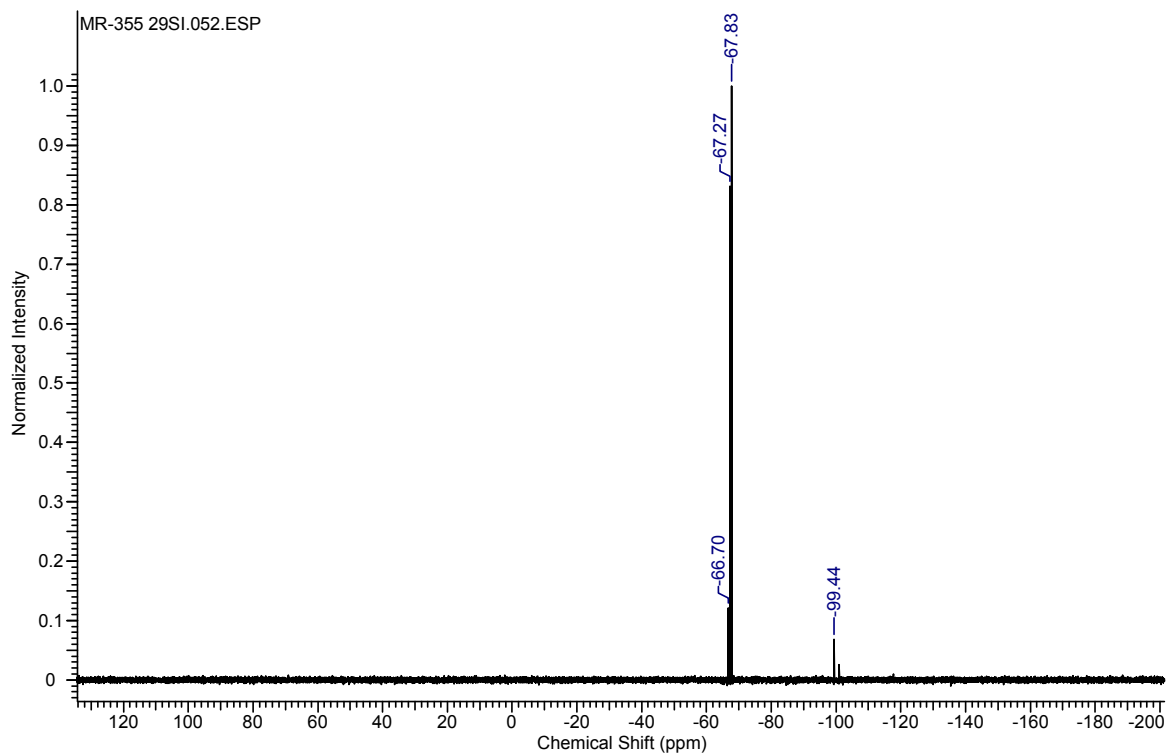
E-mail: beata.dudziec@gmail.com

Copies of ¹H, ¹³C, ²⁹Si NMR spectra for all compounds

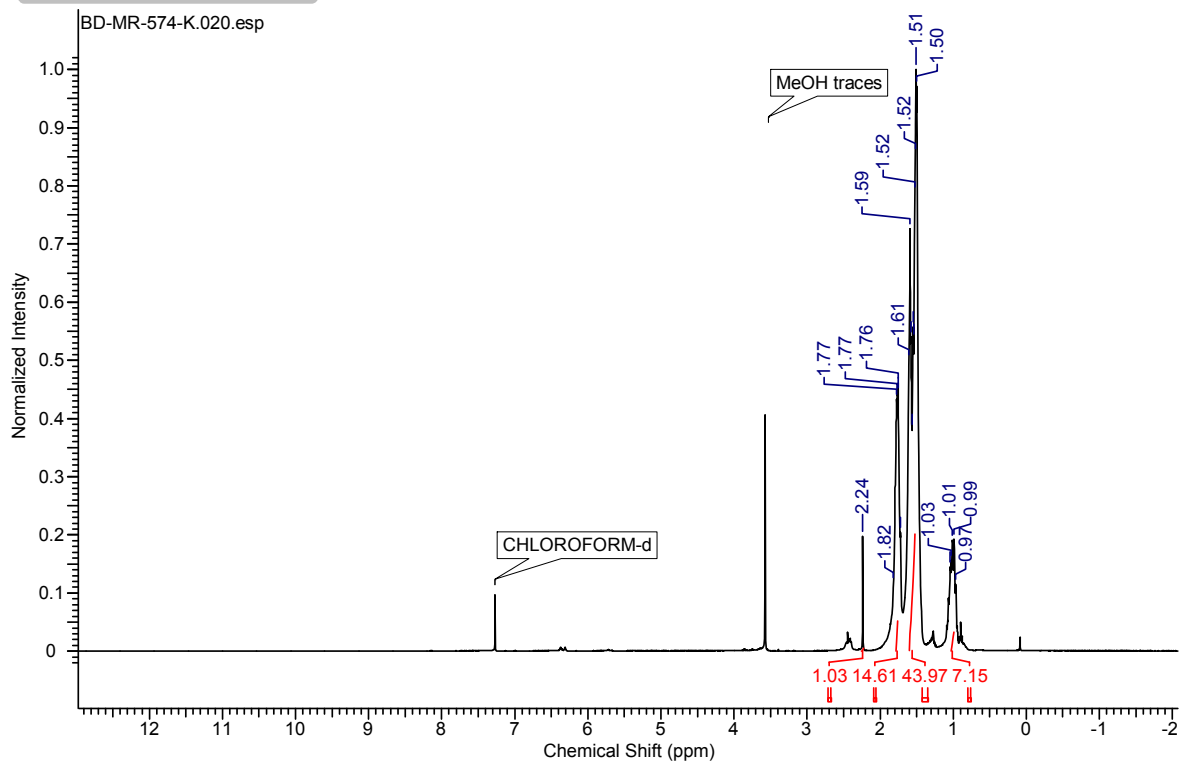
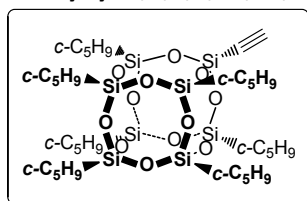
S-2-

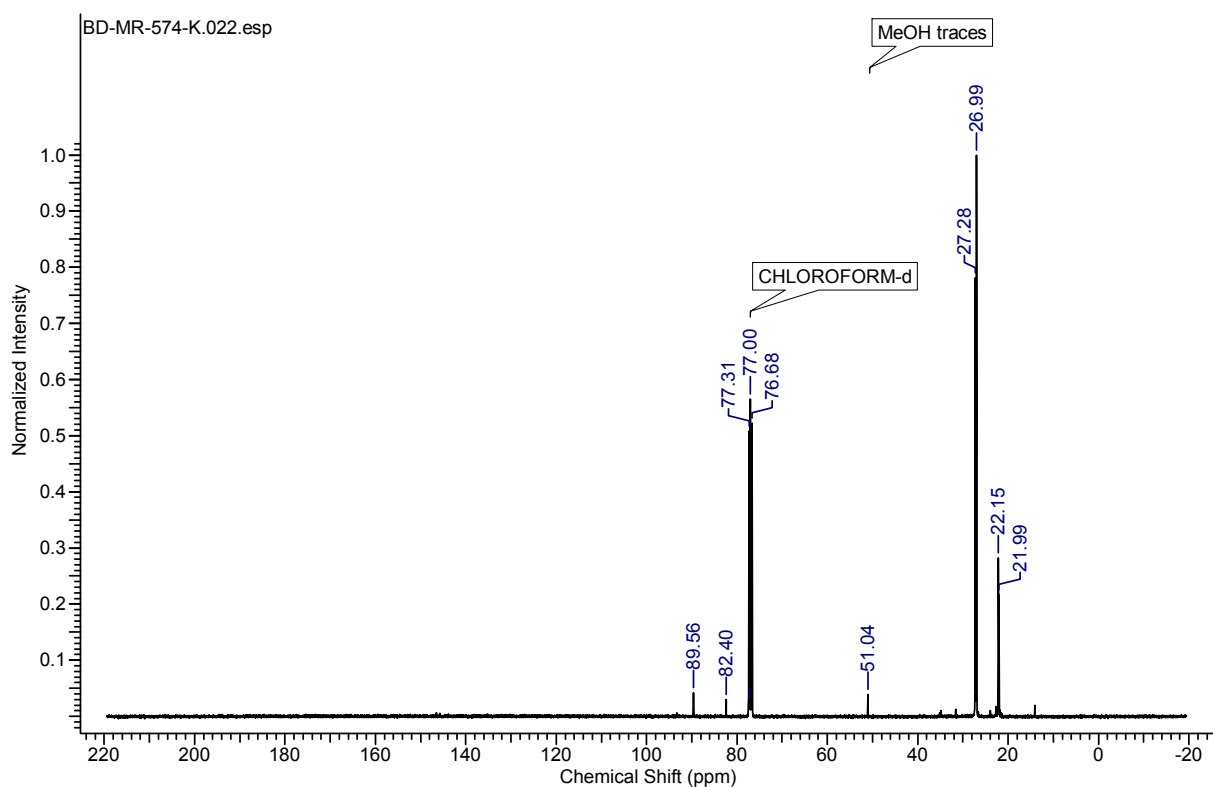
1-ethynyl-3,5,7,9,11,13,15-hepta(isobutyl)-pentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]-octasiloxane (1B-b)



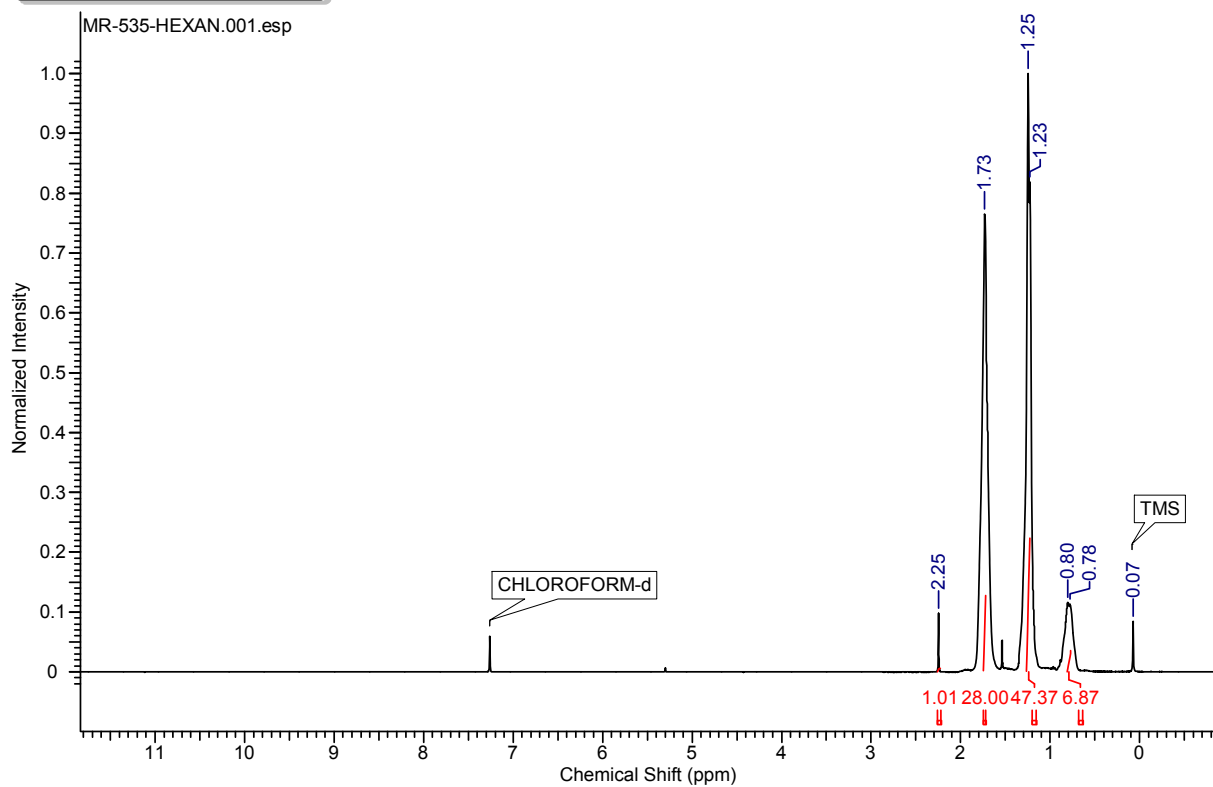
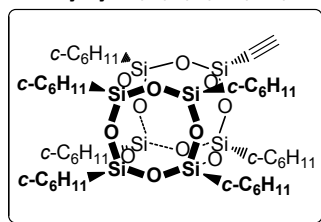


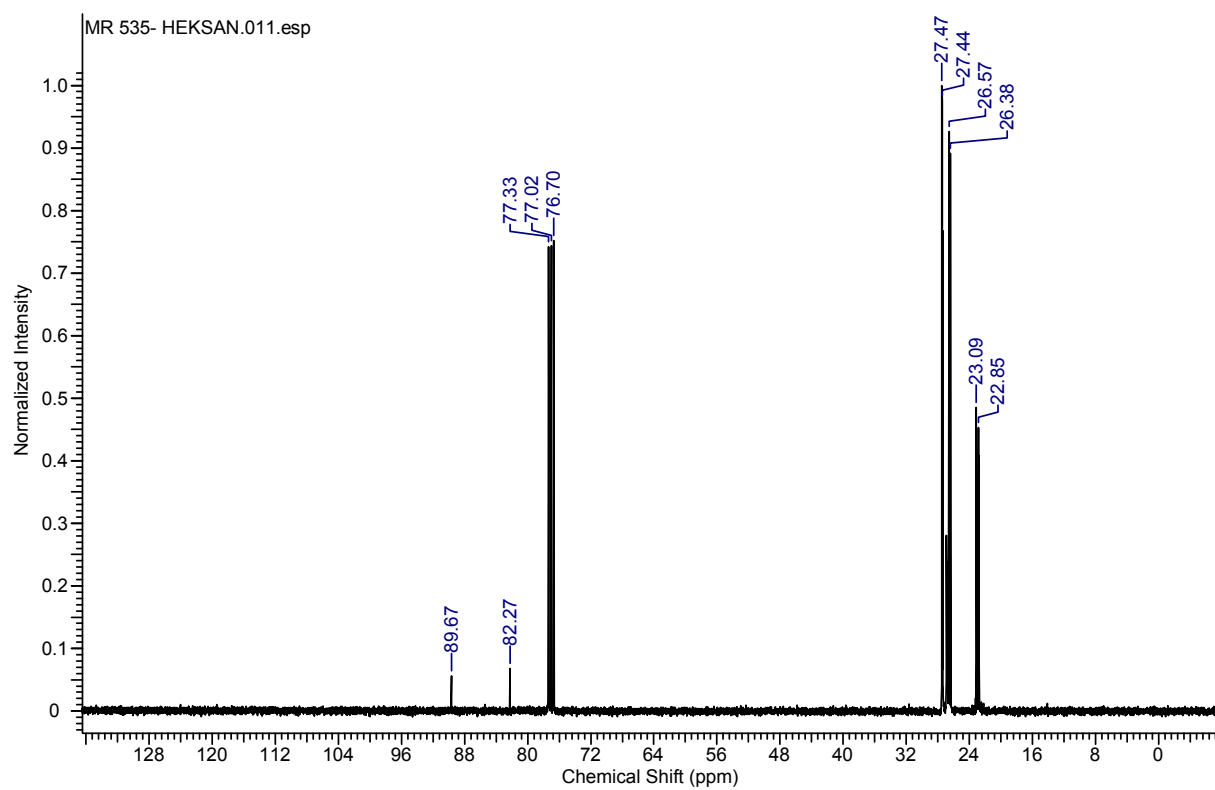
1-ethynyl-3,5,7,9,11,13,15-hepta(cyclopentyl)-pentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]-octasiloxane (1B-c)



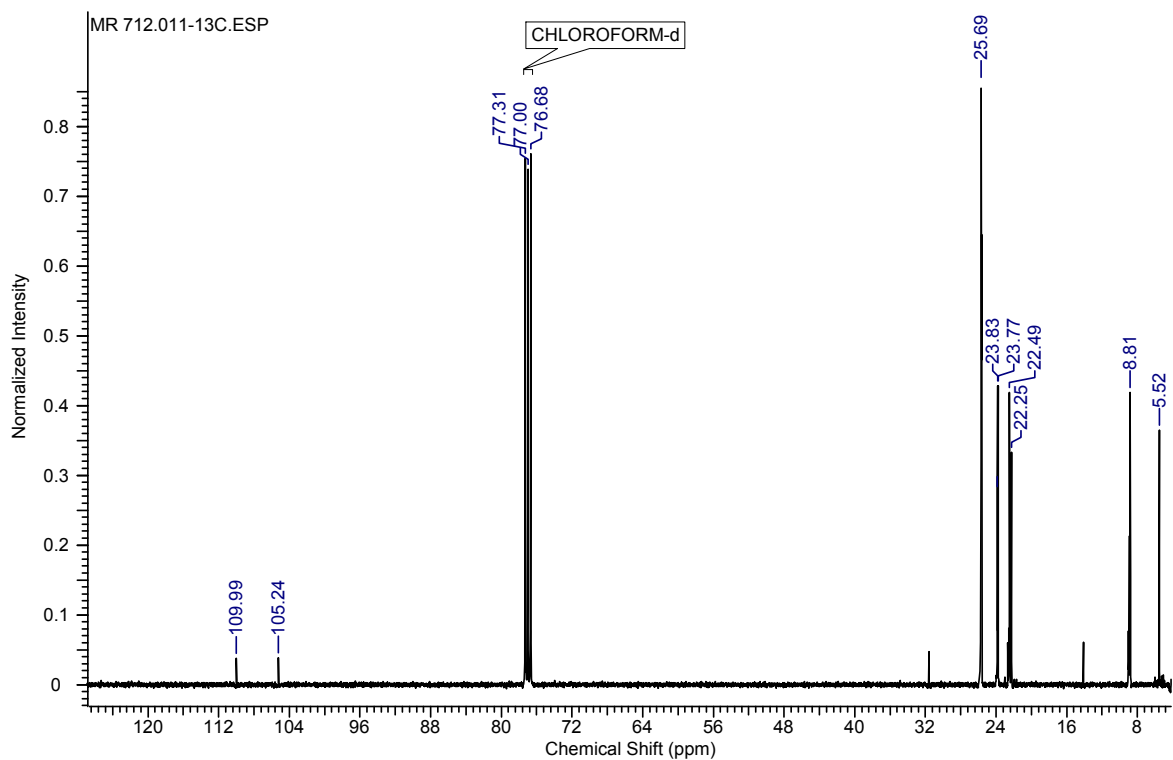
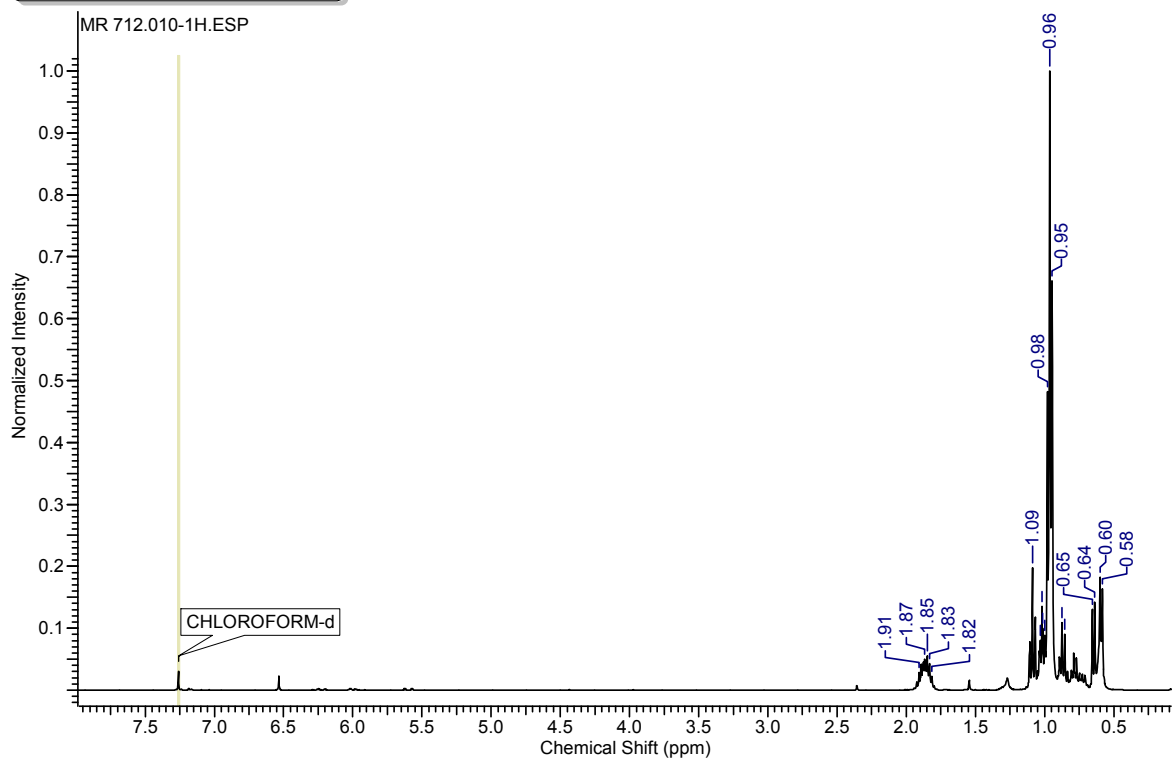
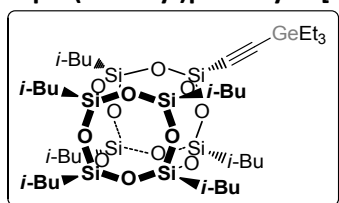


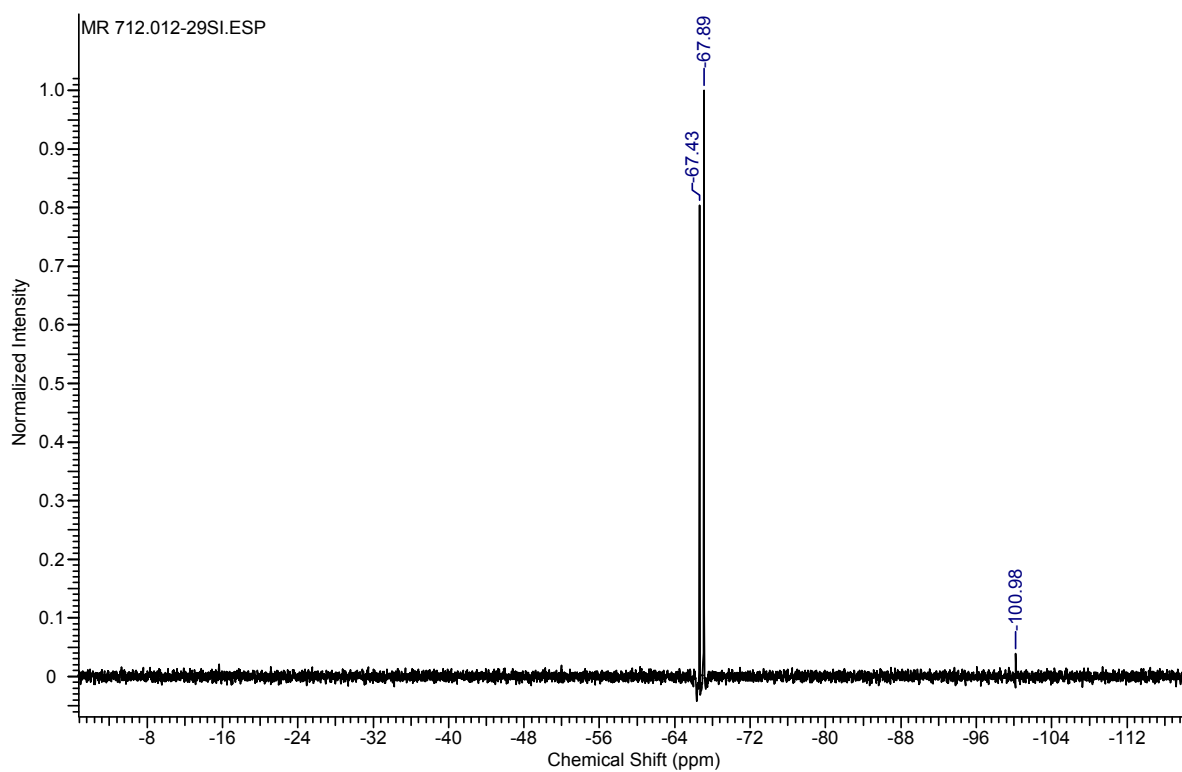
1-ethynyl-3,5,7,9,11,13,15-hepta(cyclohexyl)-pentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]-octasiloxane (1B-d)



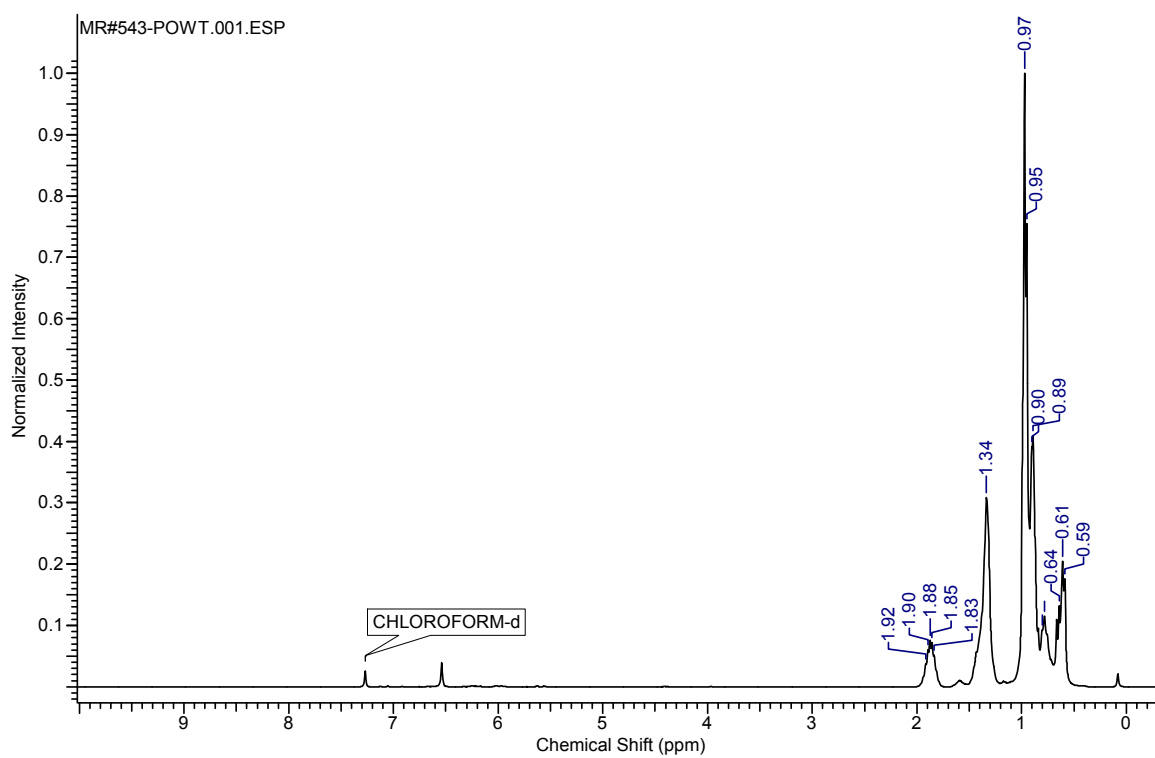
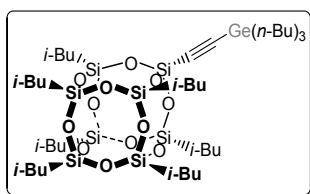


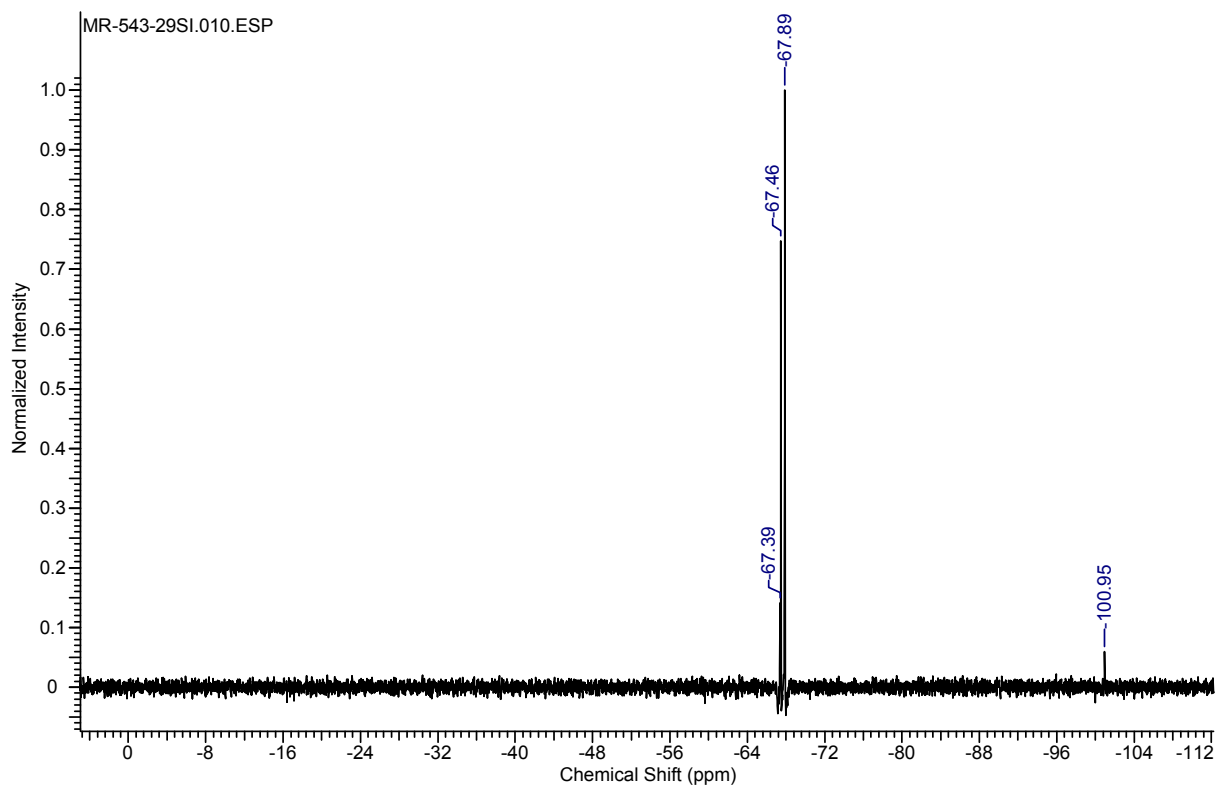
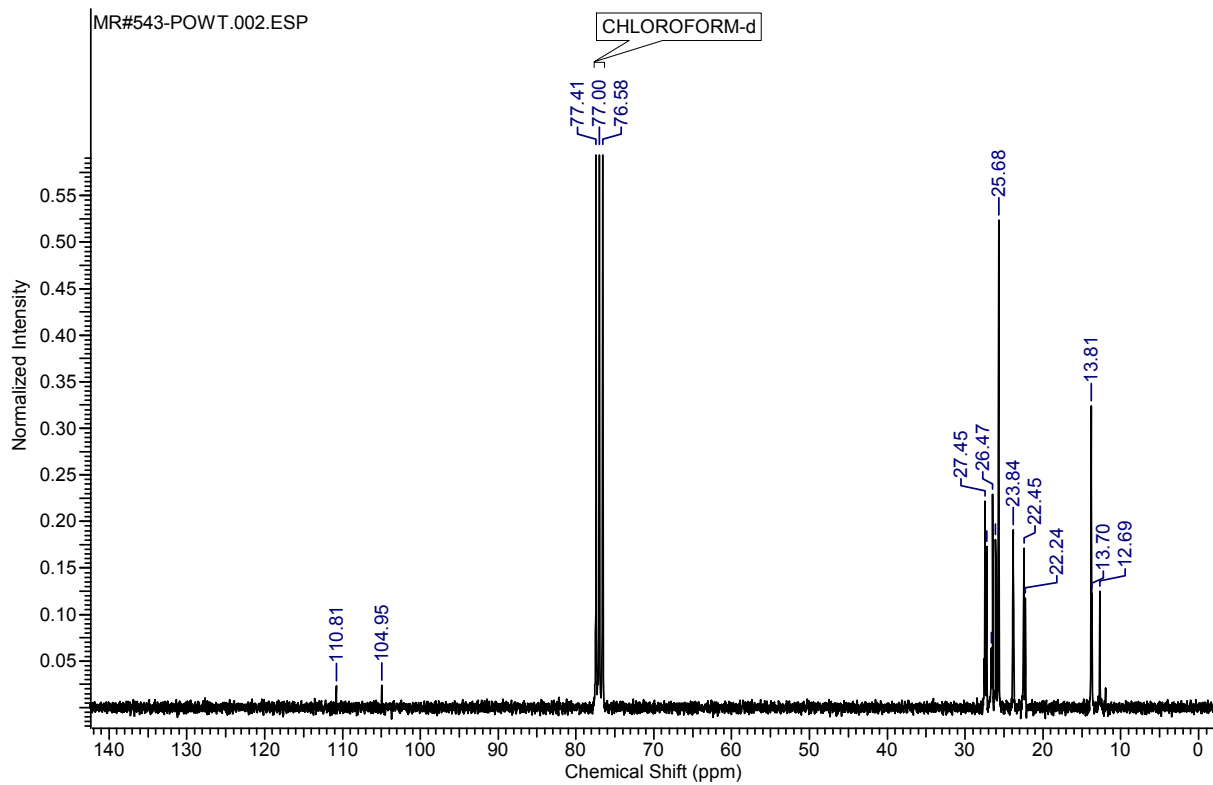
1-((triethylgermyl)ethynyl)-3,5,7,9,11,13,15-hepta(isobutyl)pentacyclo[9.5.1.1.^{3,9}.1.^{5,15}.1.^{7,13}]octasiloxane (1)



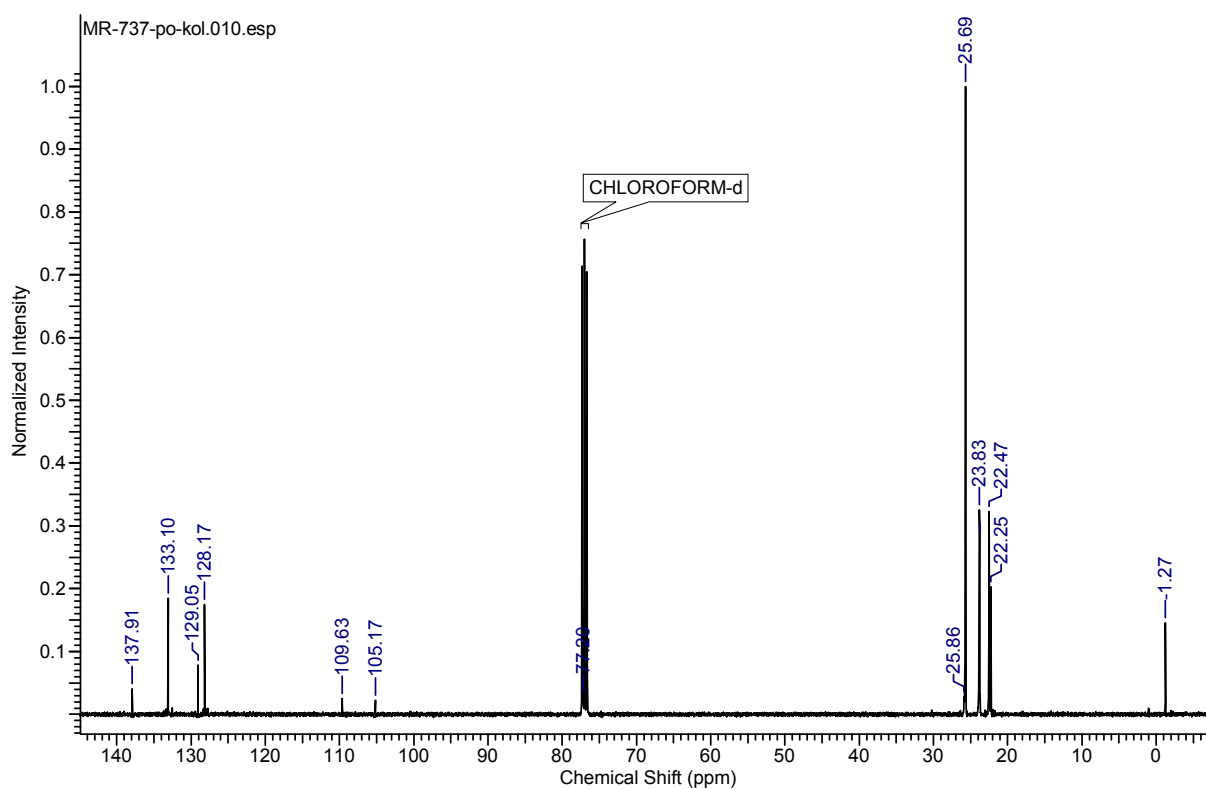
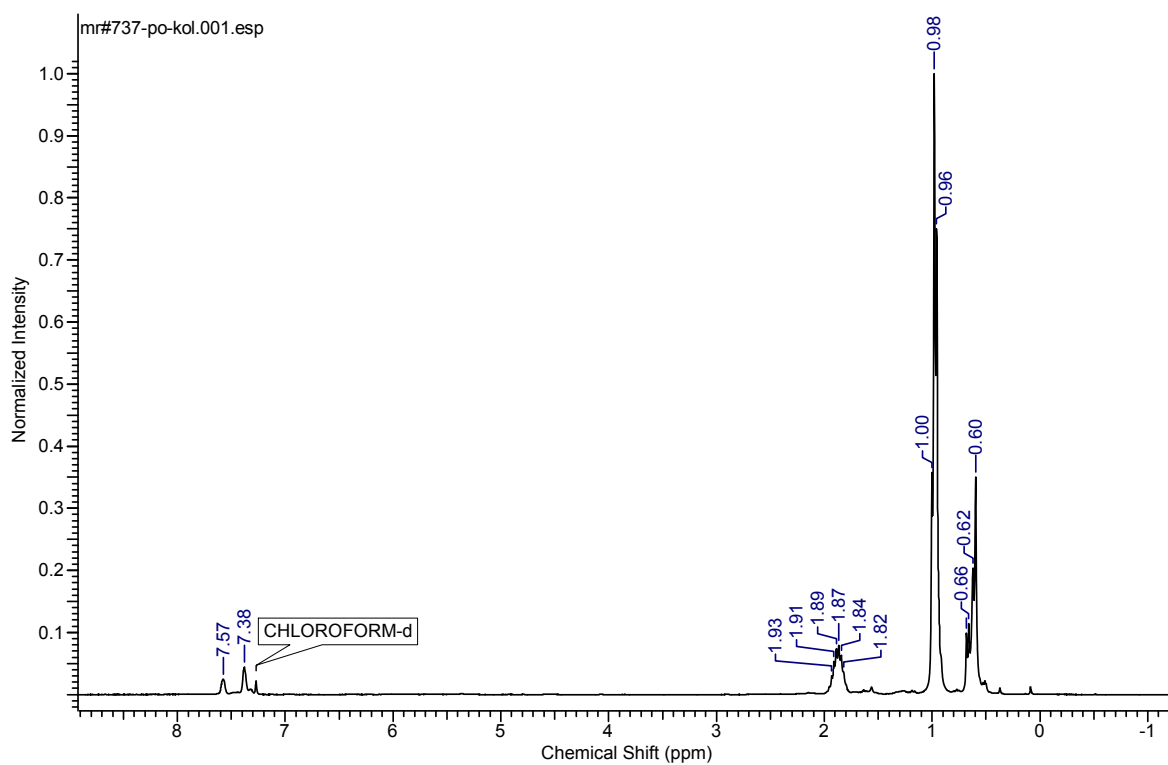
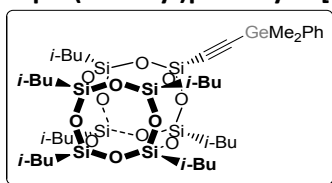


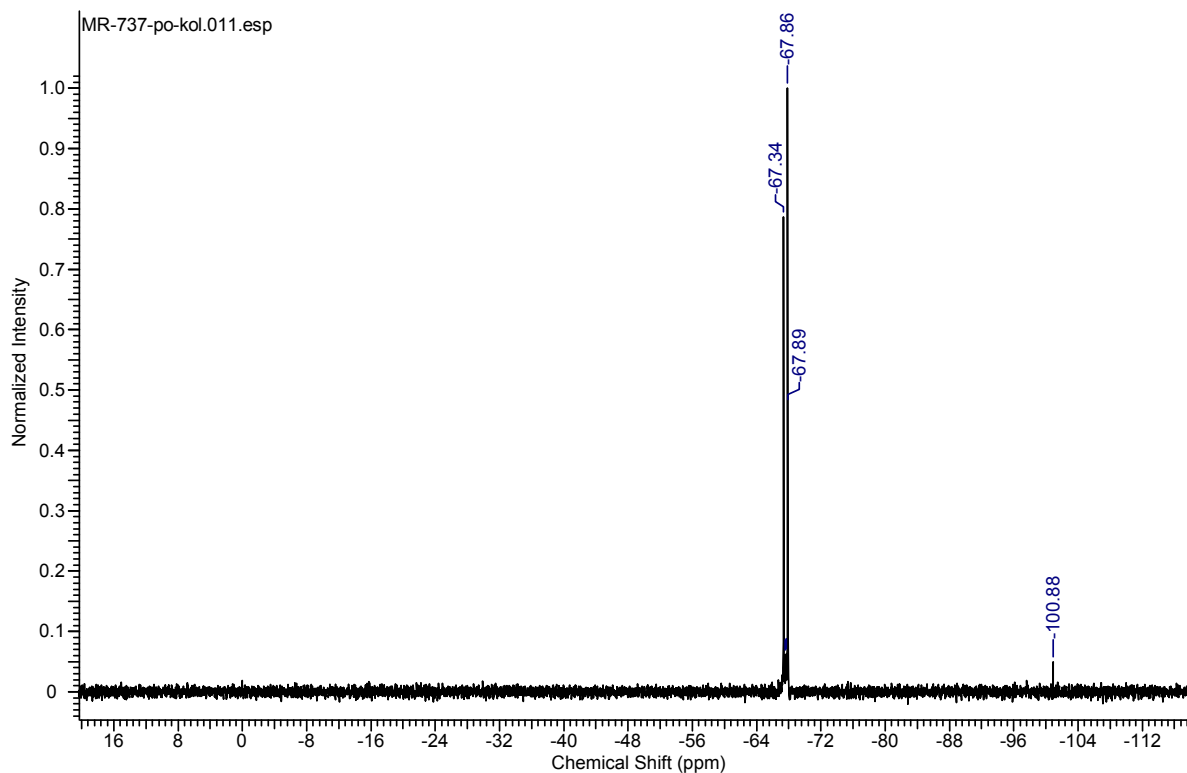
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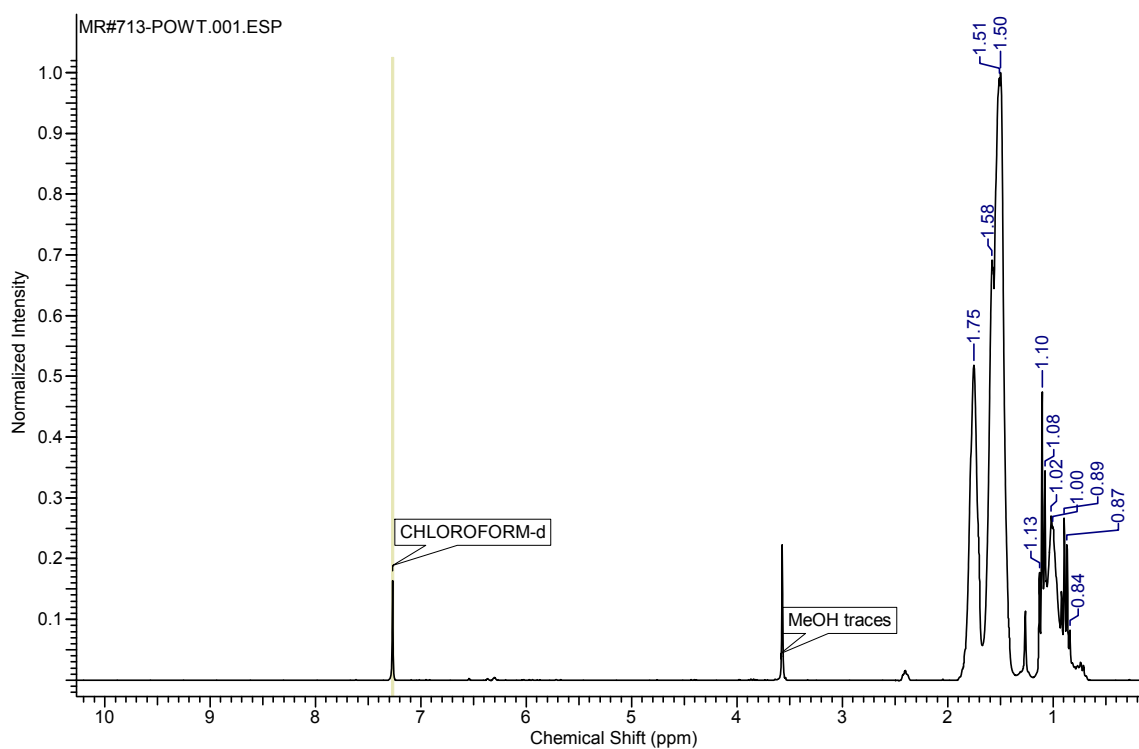
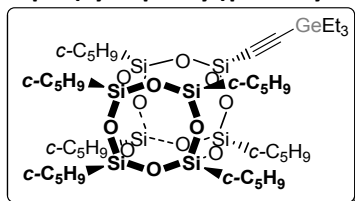


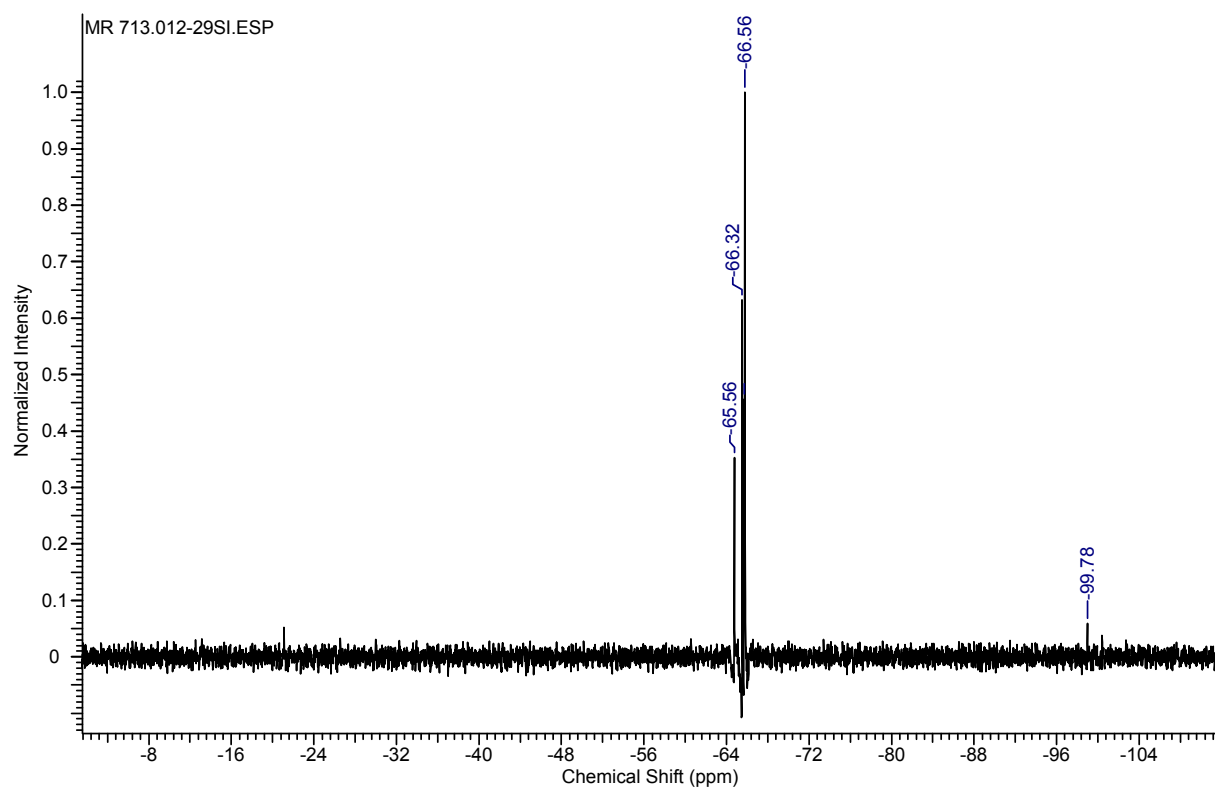
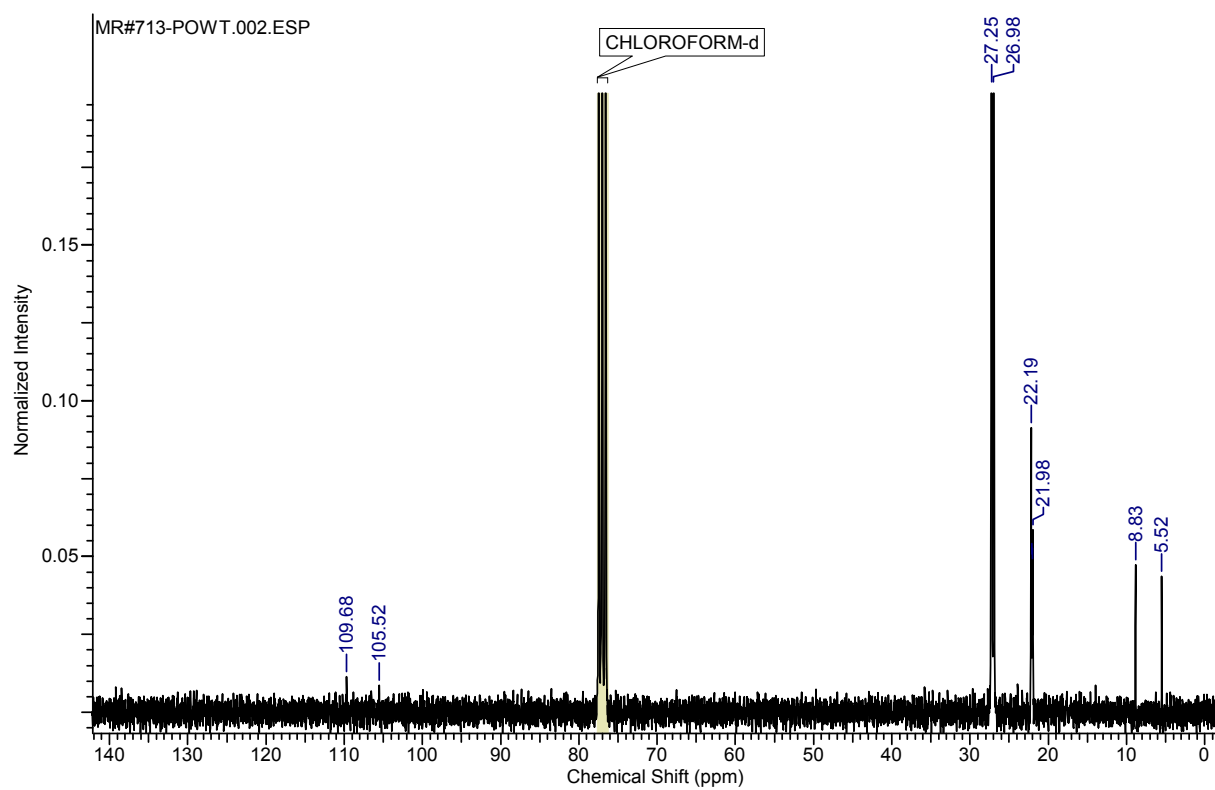
1-((dimethylphenylgermylo)etynylo)-3,5,7,9,11,13,15-hepta(isobutyl)pentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]octasiloxane (3)



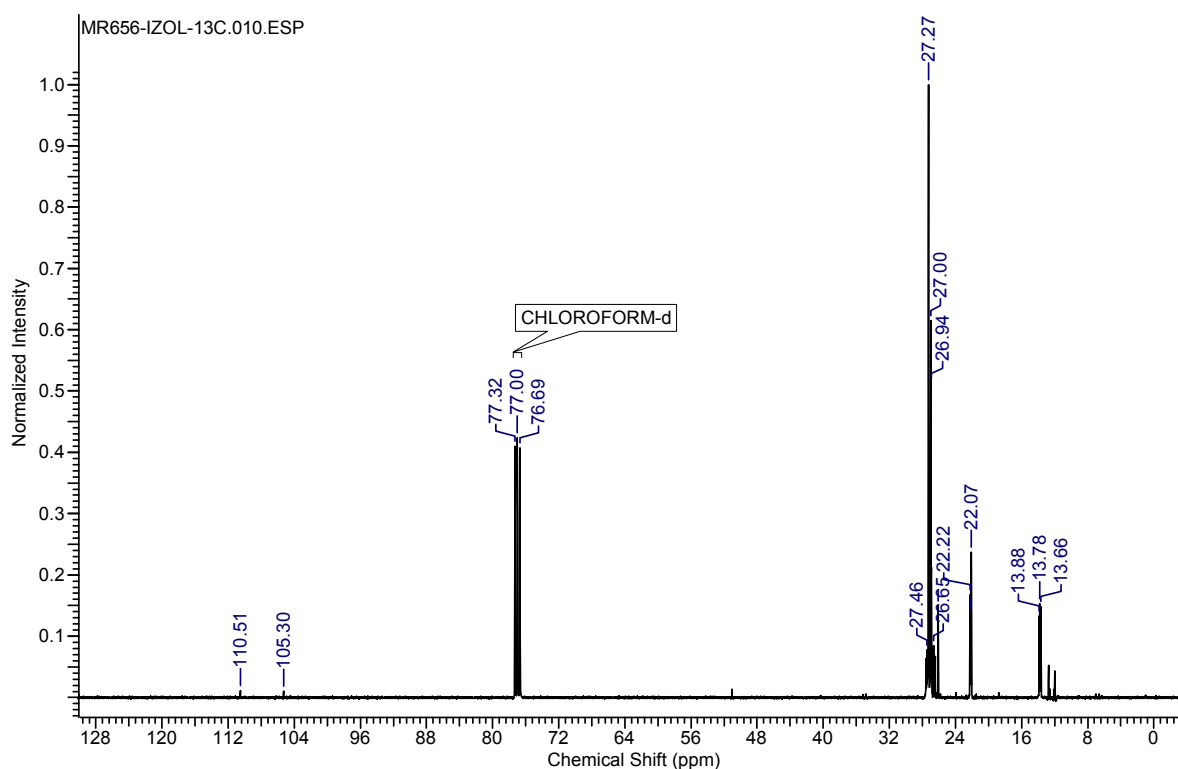
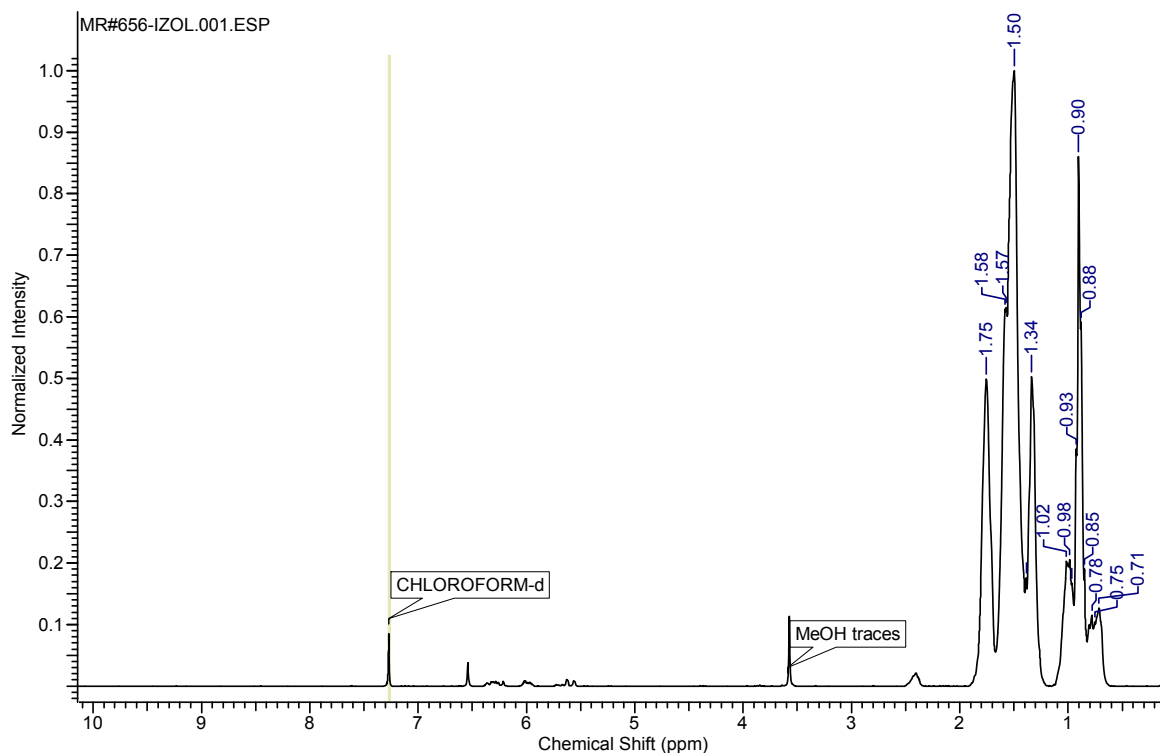
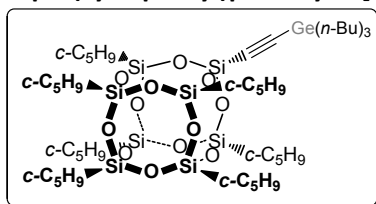


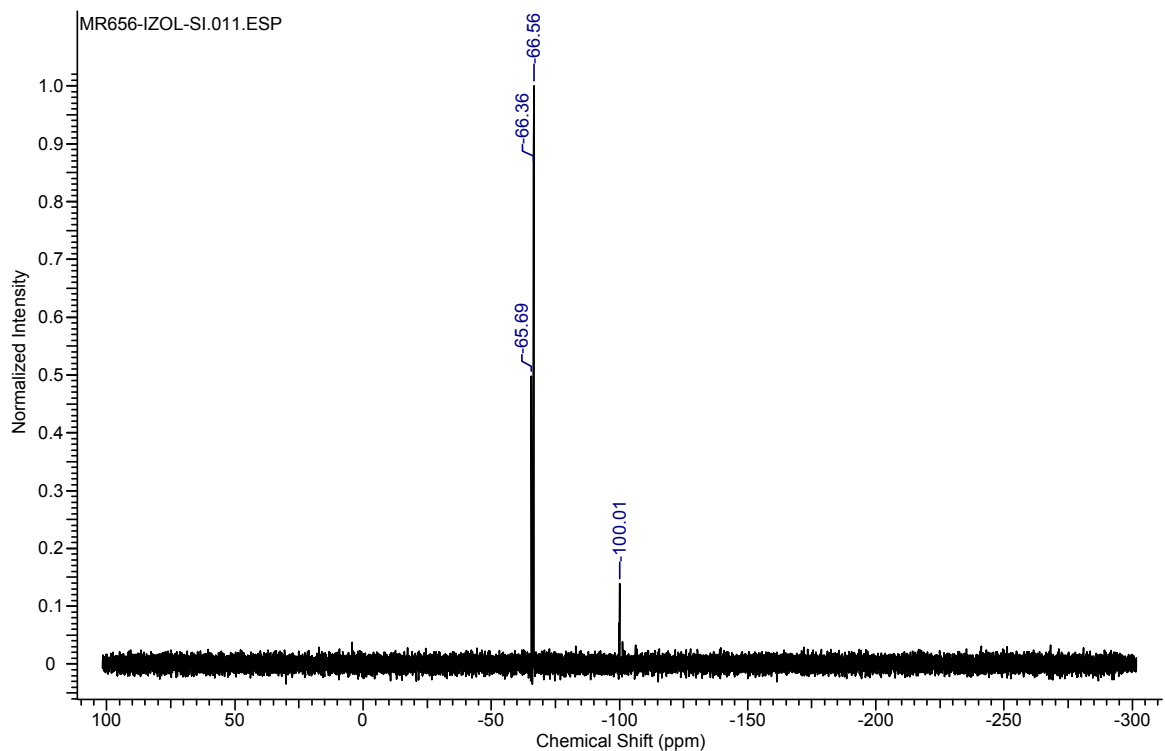
1-((triethylgermyl)ethynyl)-3,5,7,9,11,13,15-hepta(cyclopentyl)pentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]octasiloxane (4)



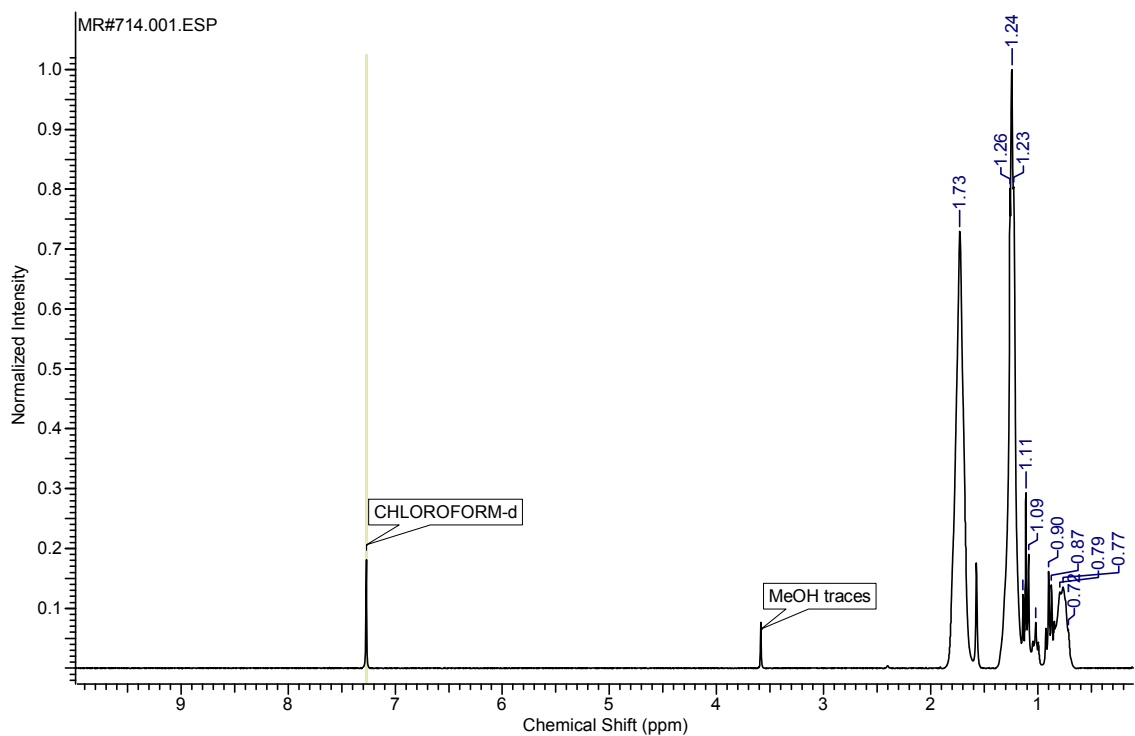
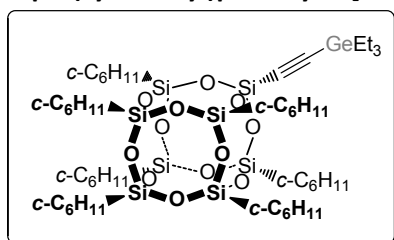


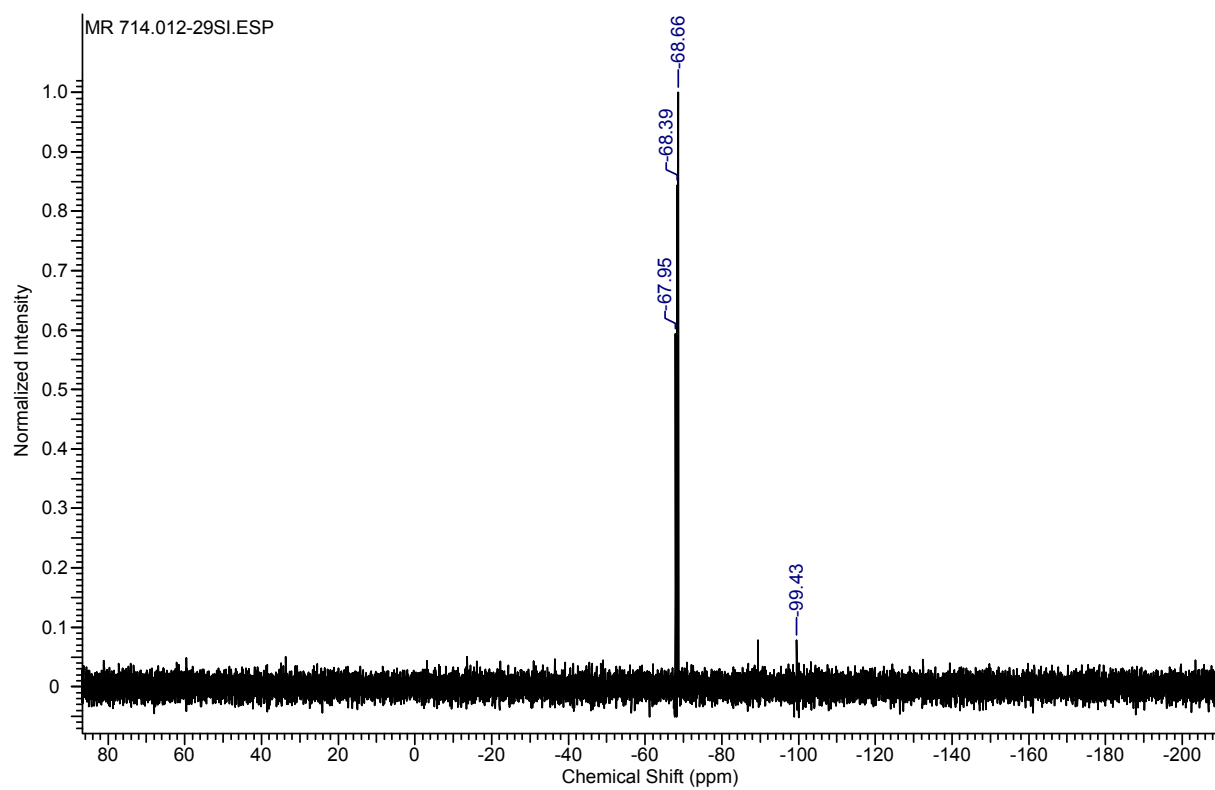
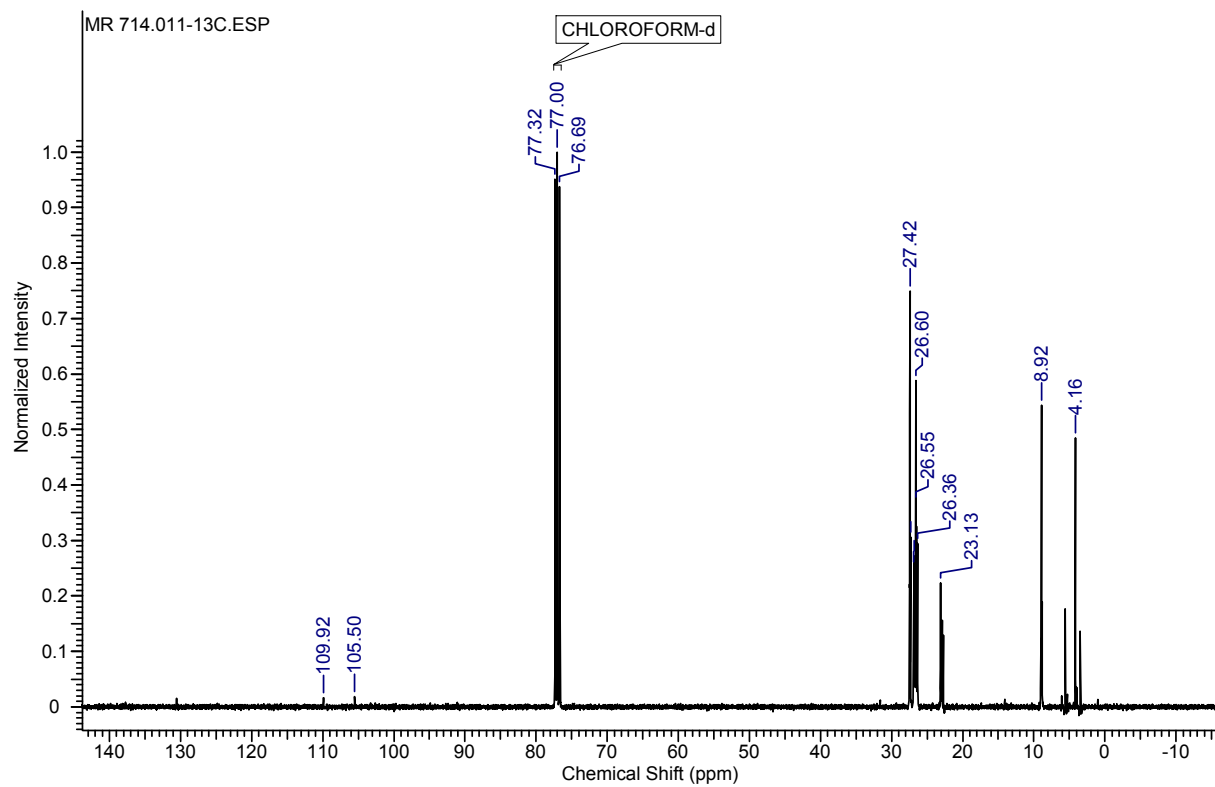
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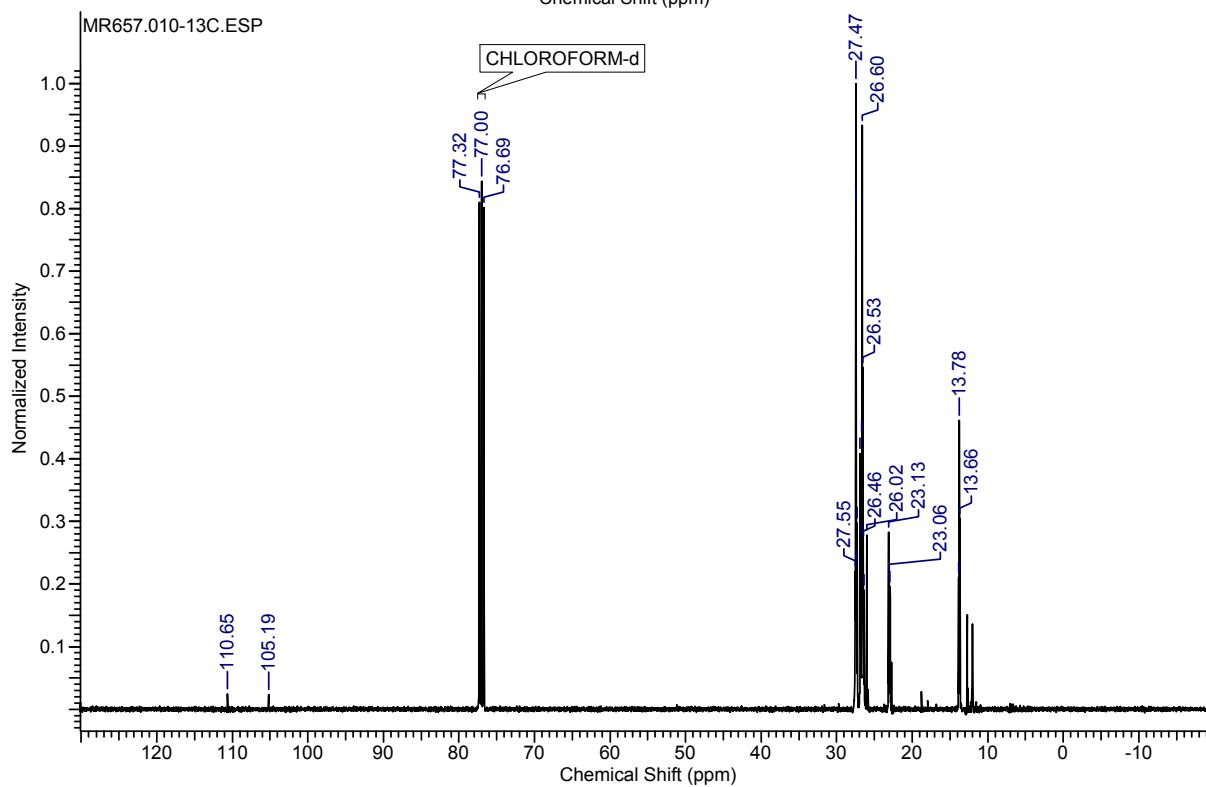
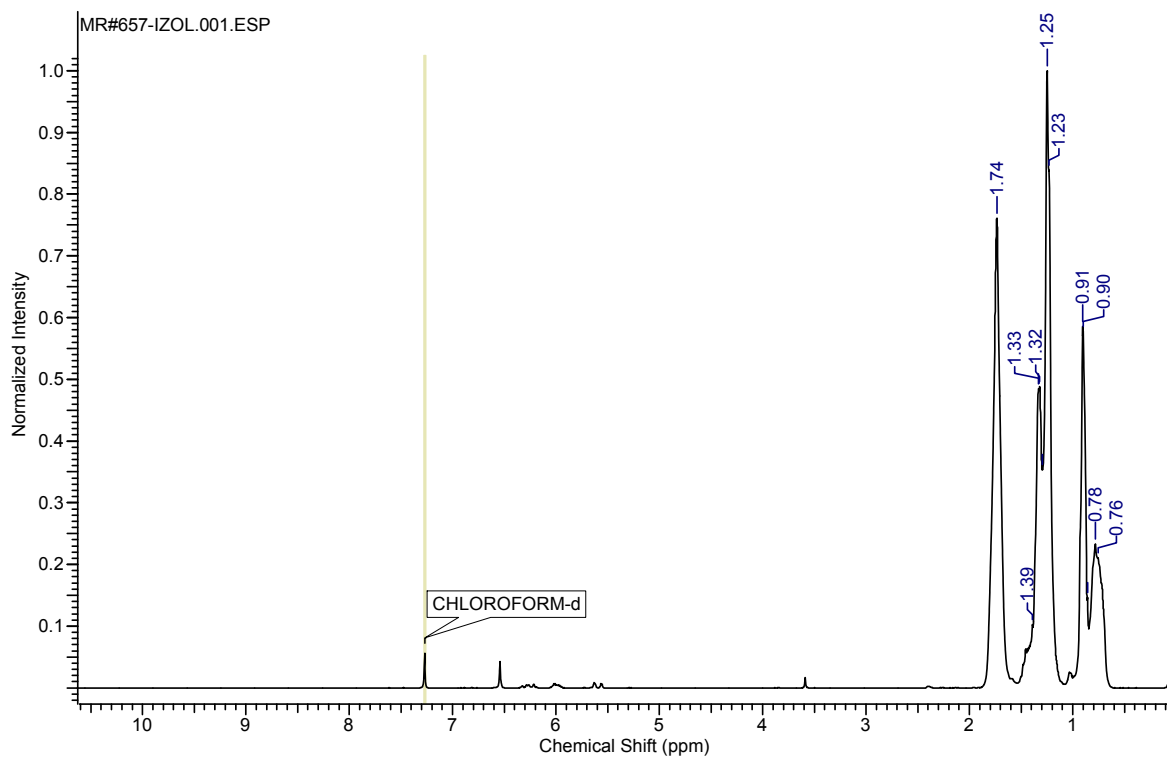
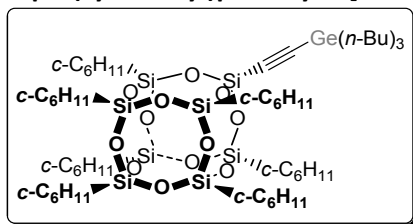


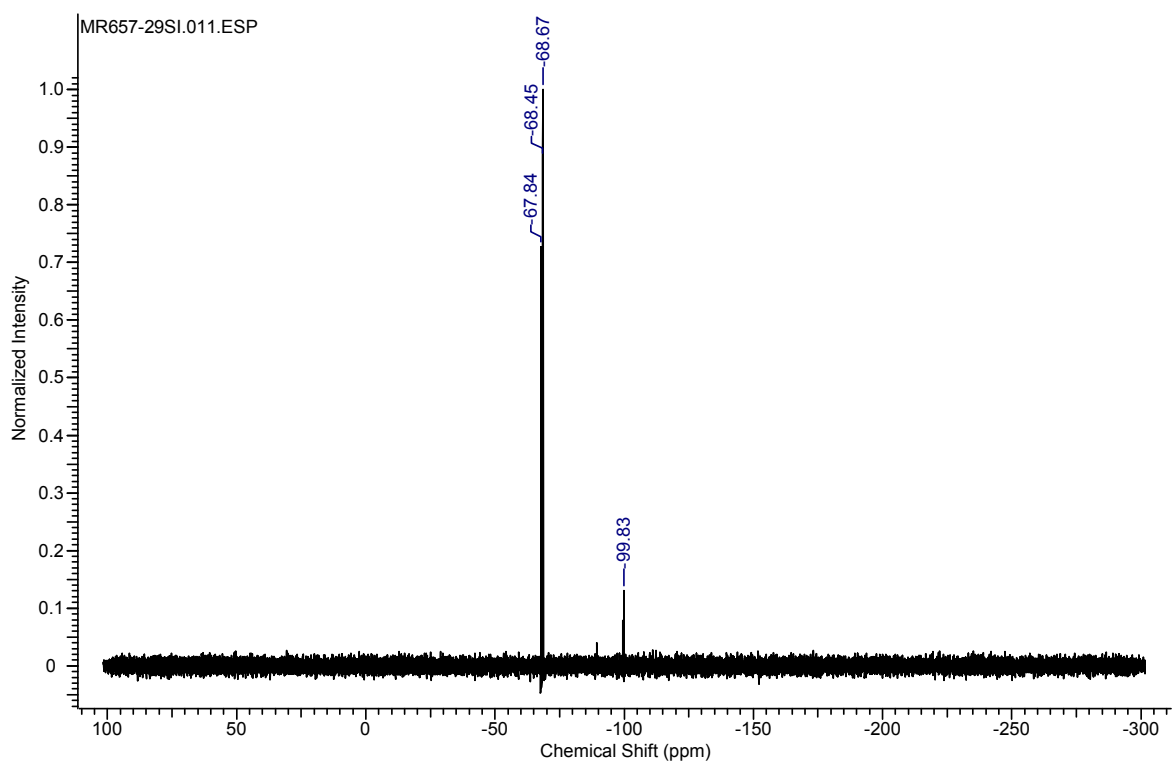
1-((triethylgermyl)ethynyl)-3,5,7,9,11,13,15-hepta(cyclohexyl)pentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]octasiloxane (6)



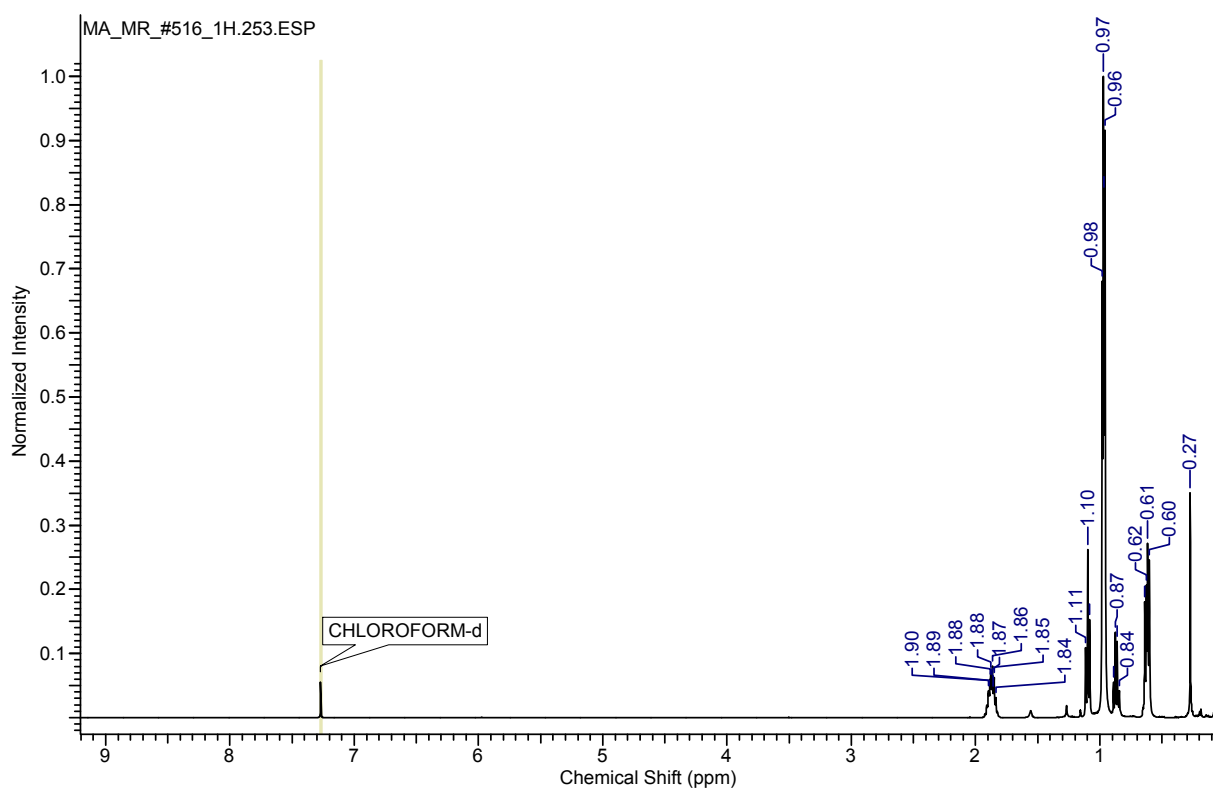
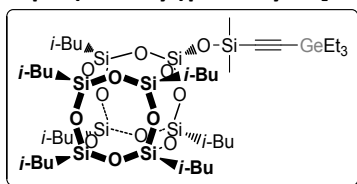


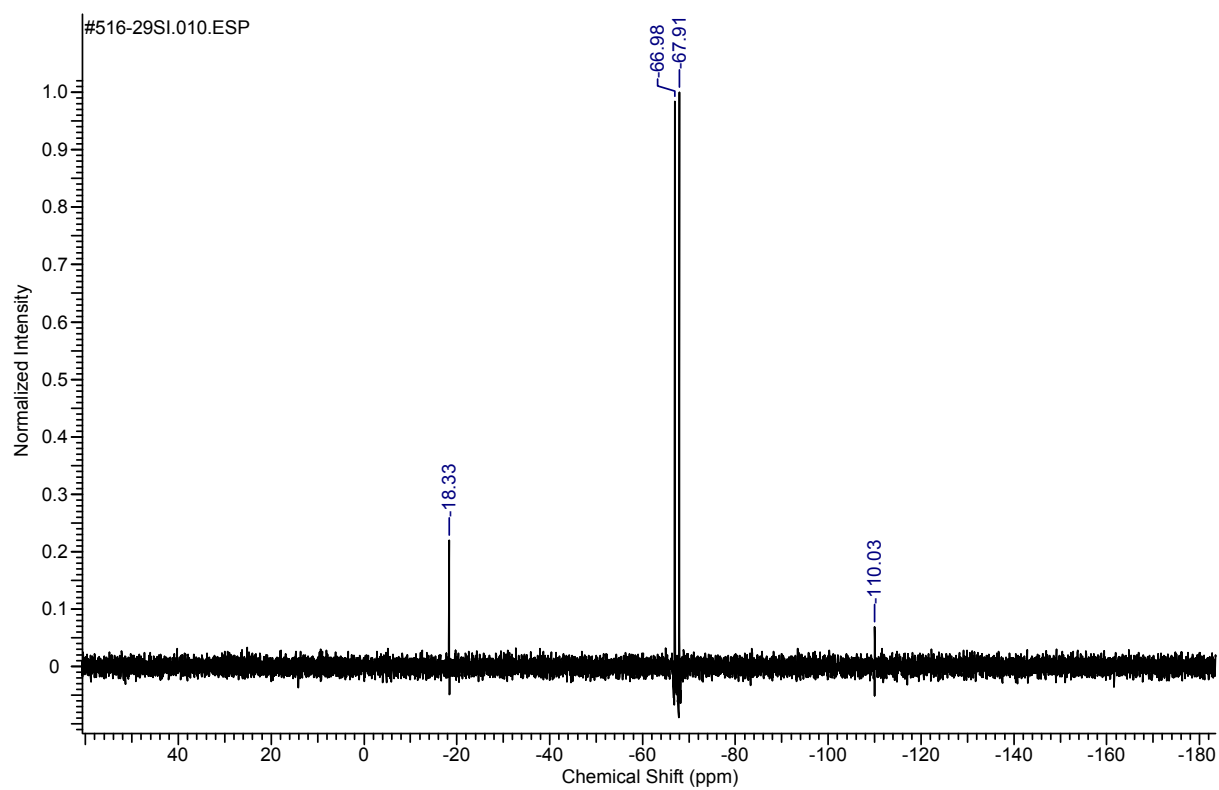
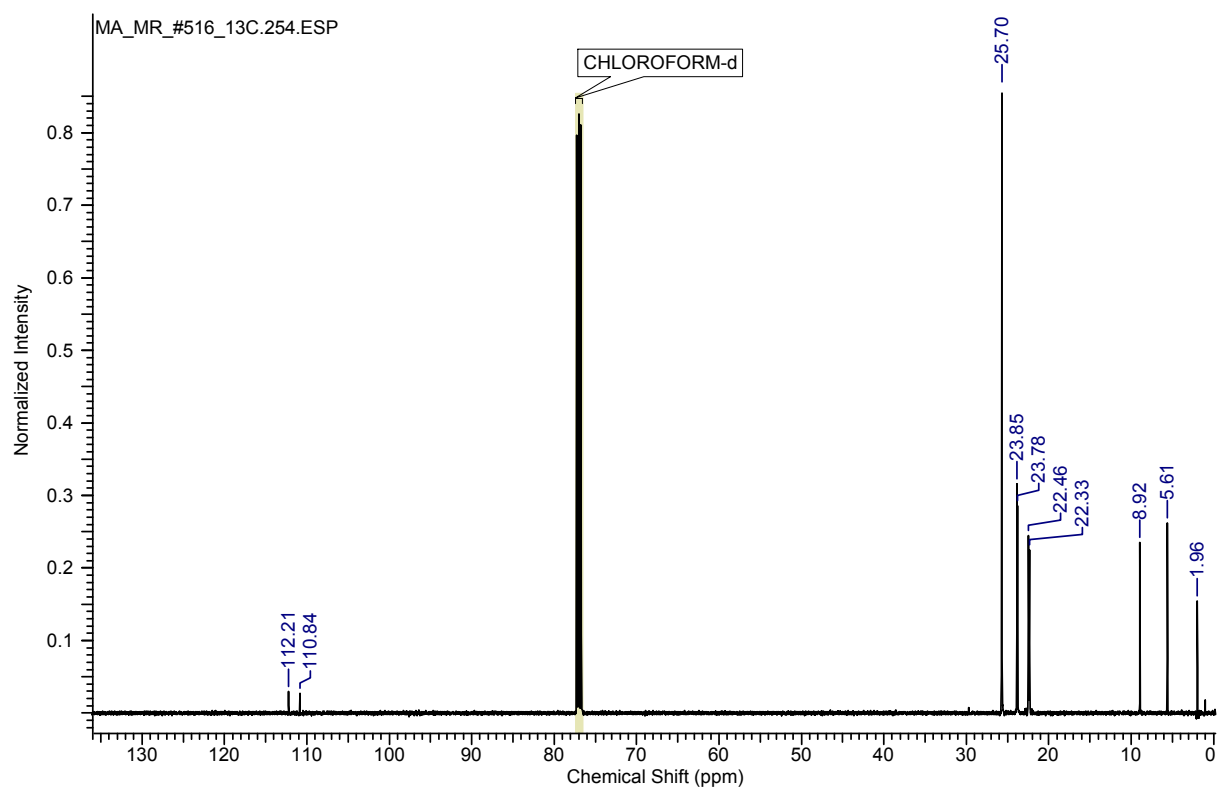
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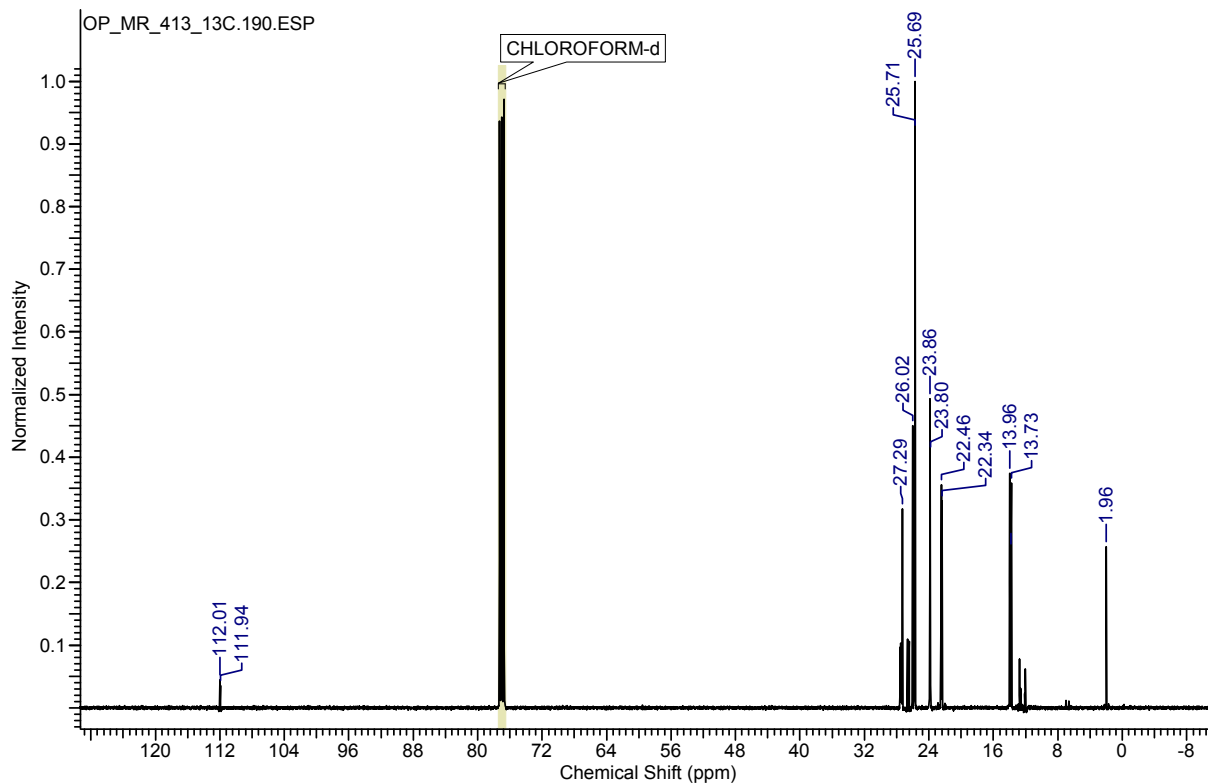
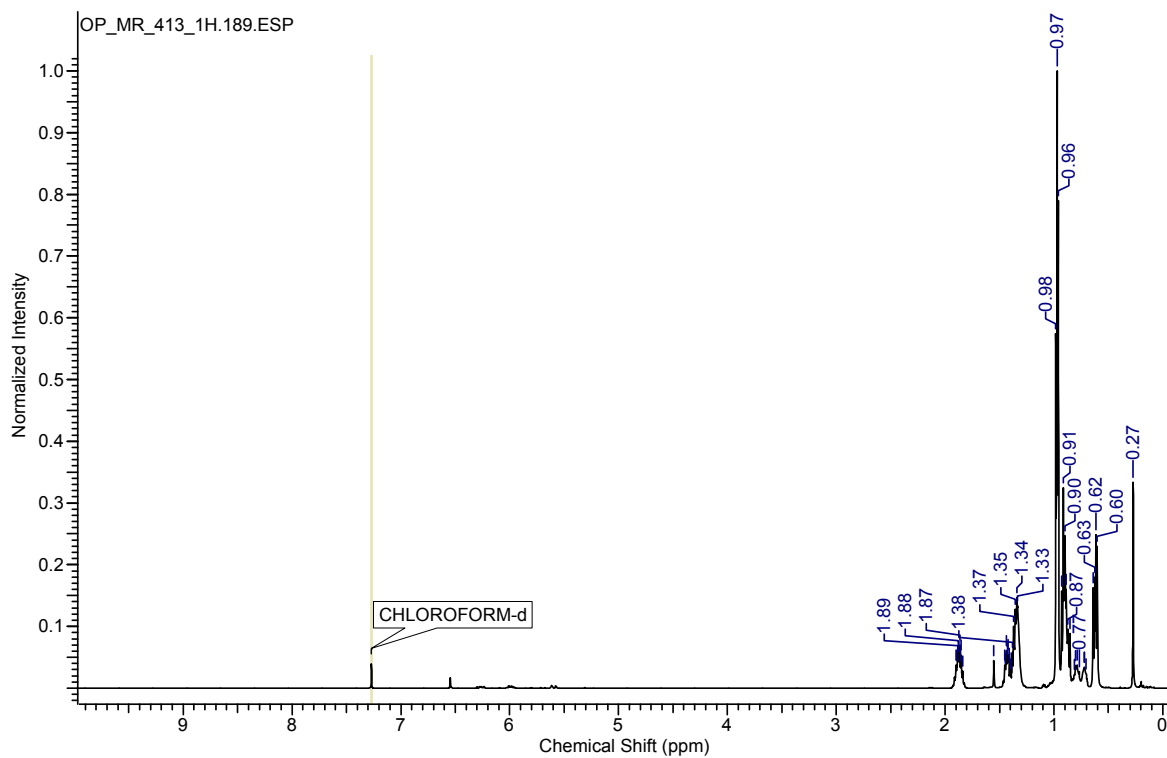
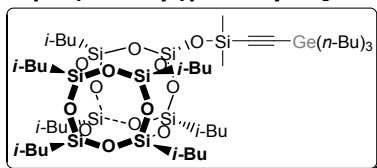


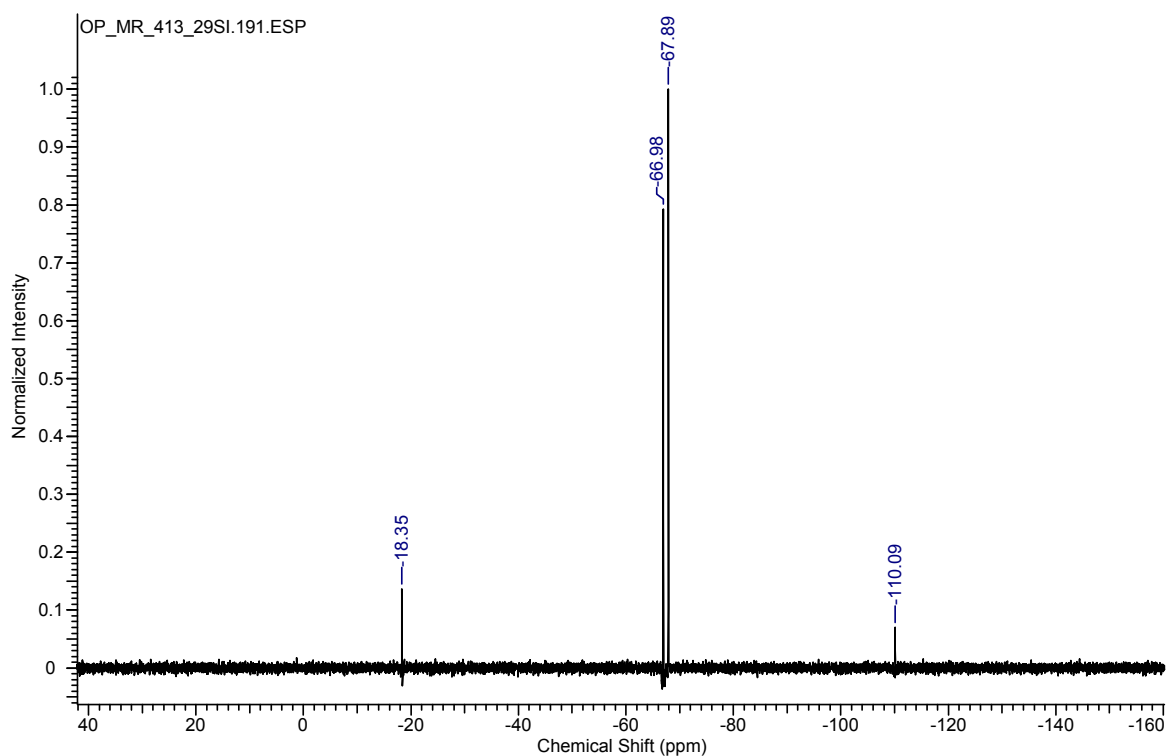
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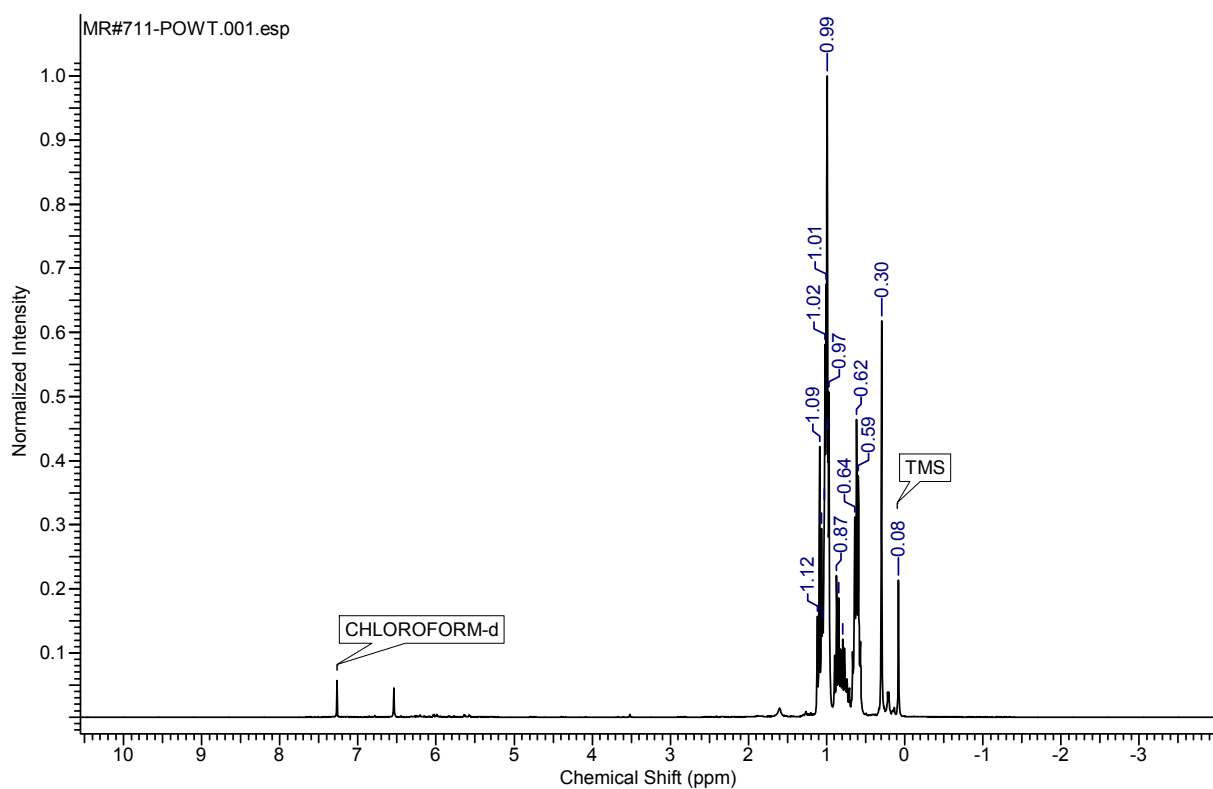
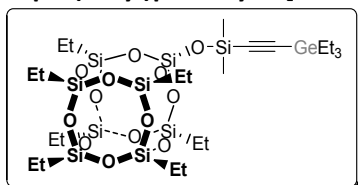


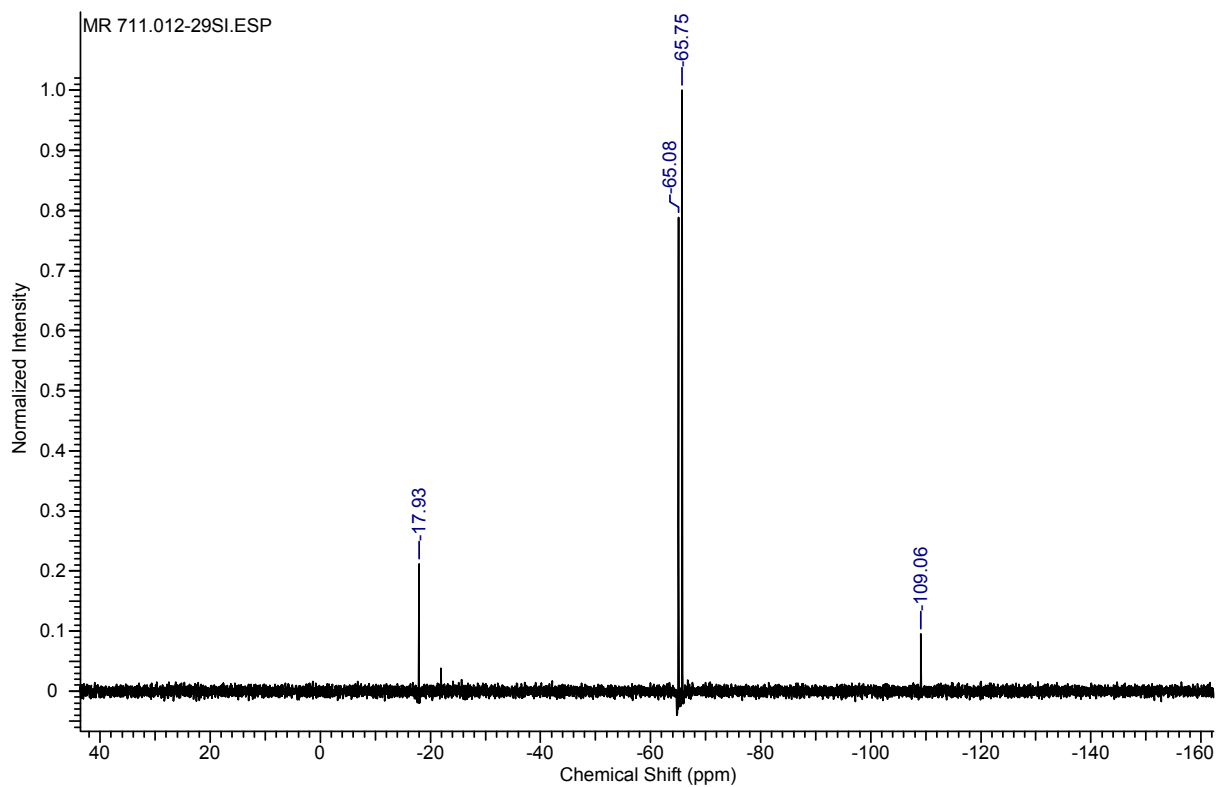
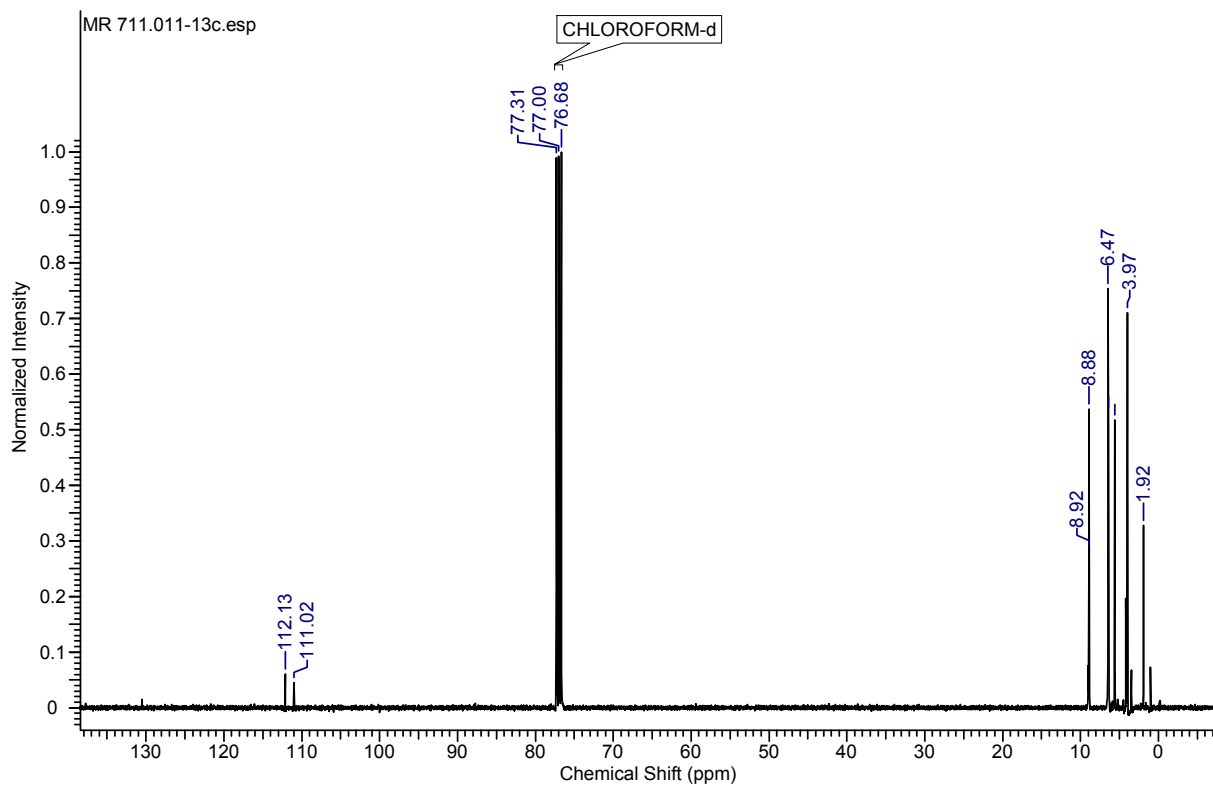
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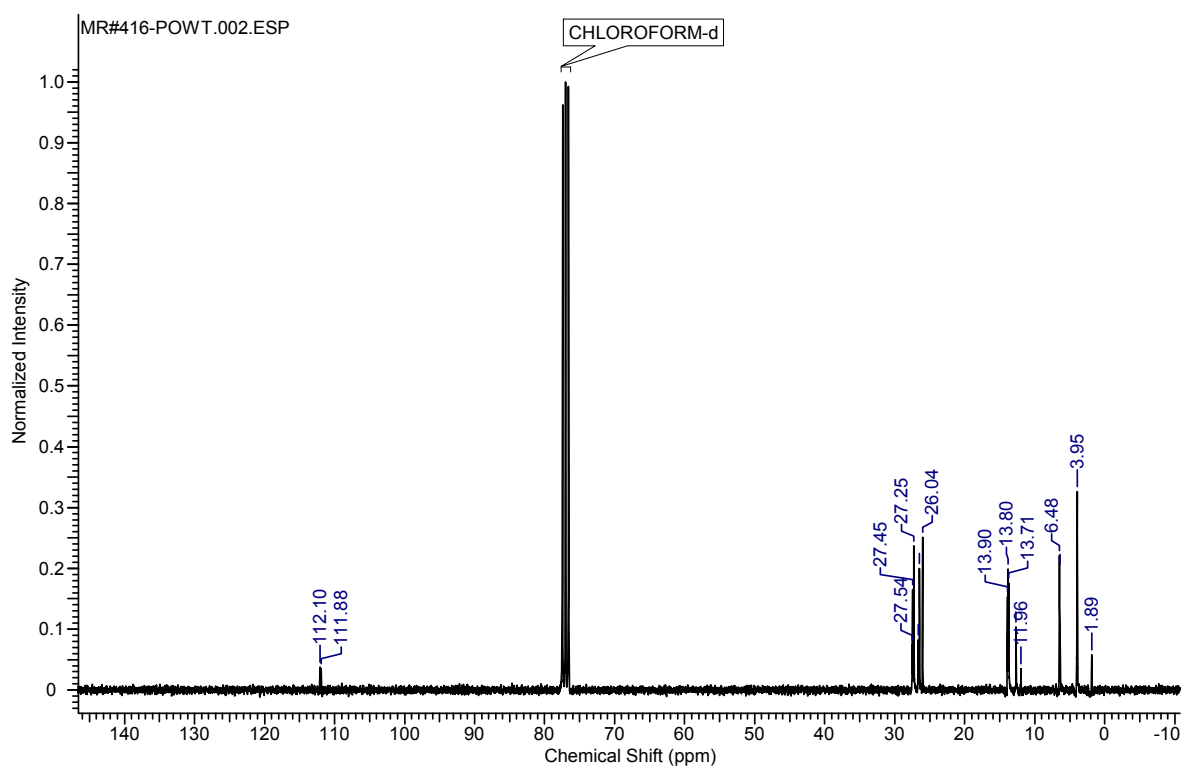
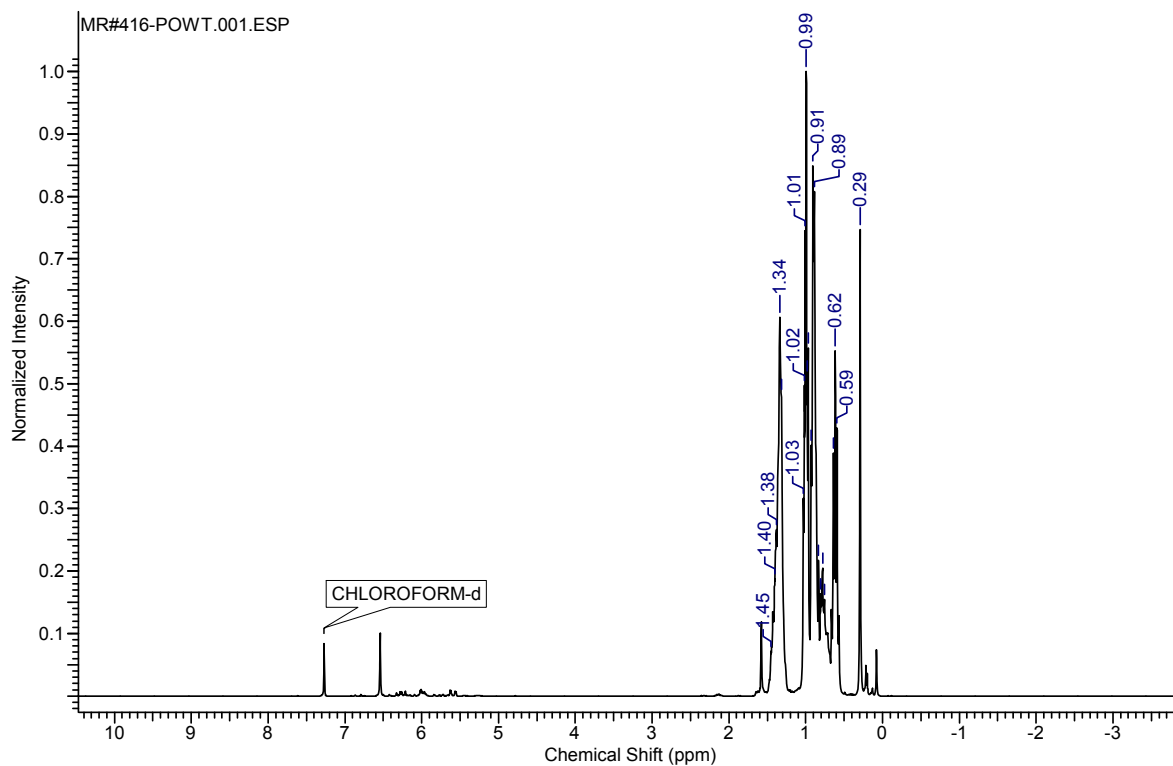
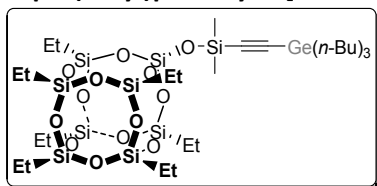


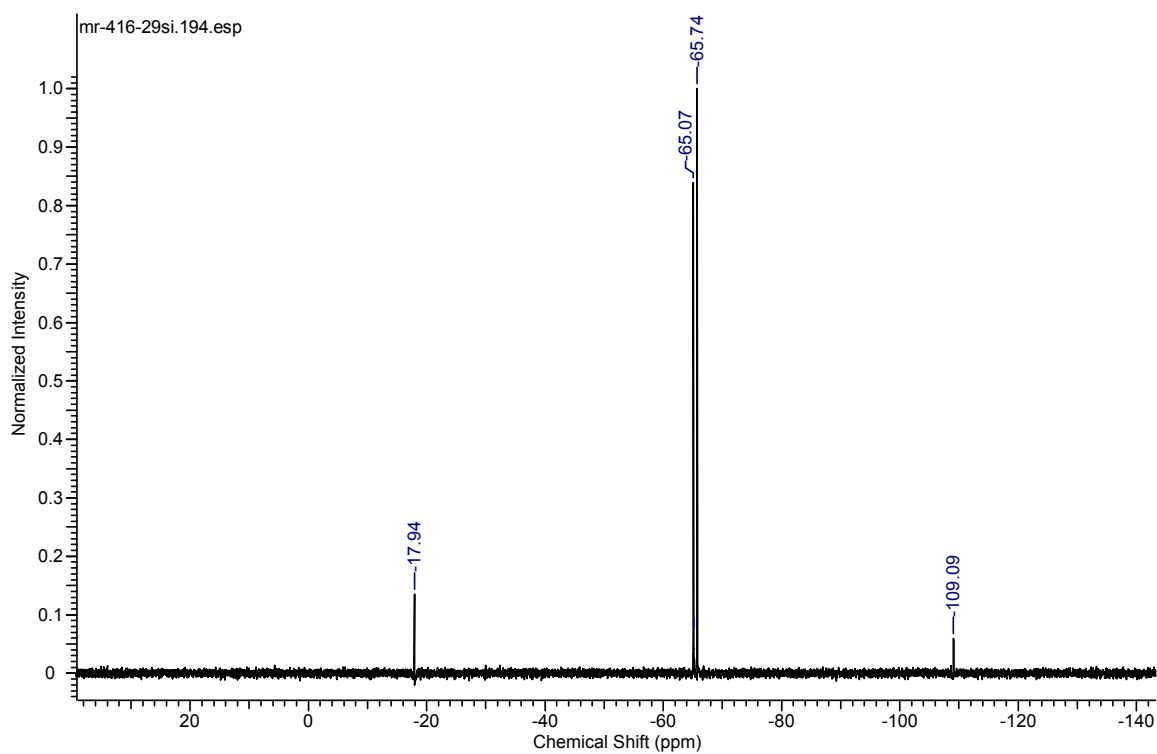
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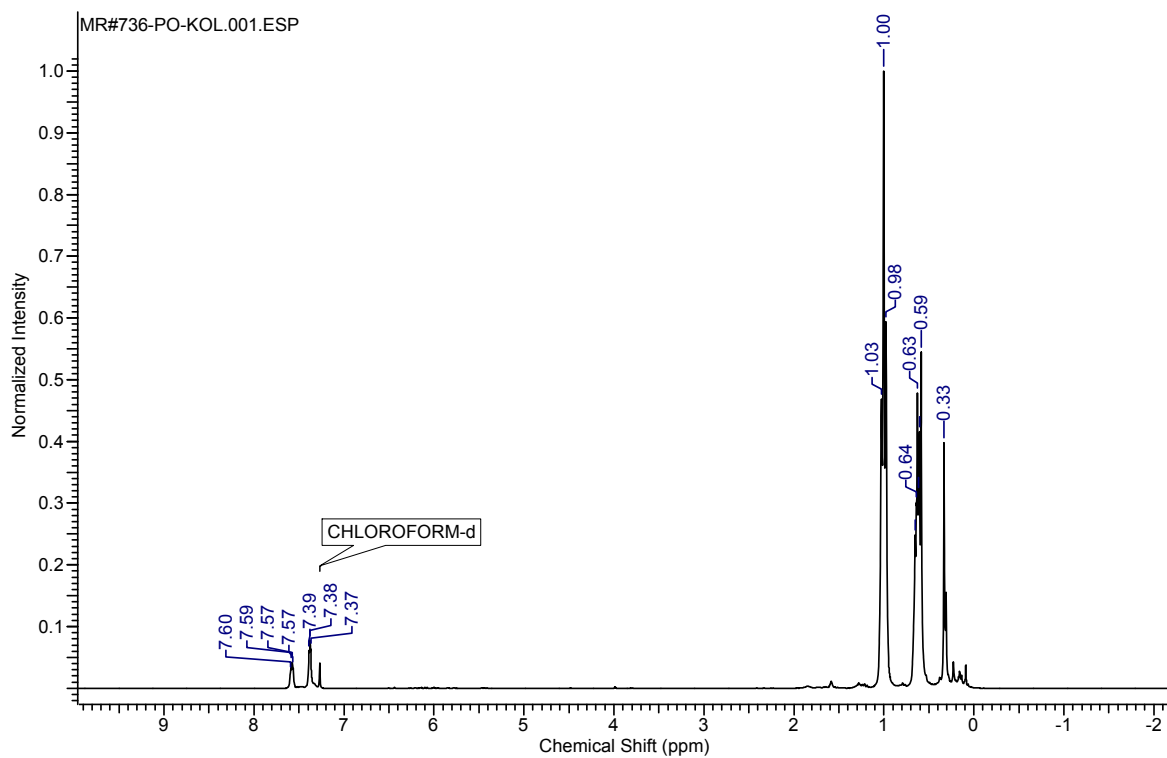
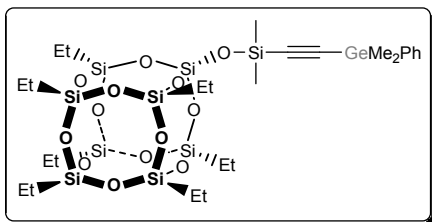


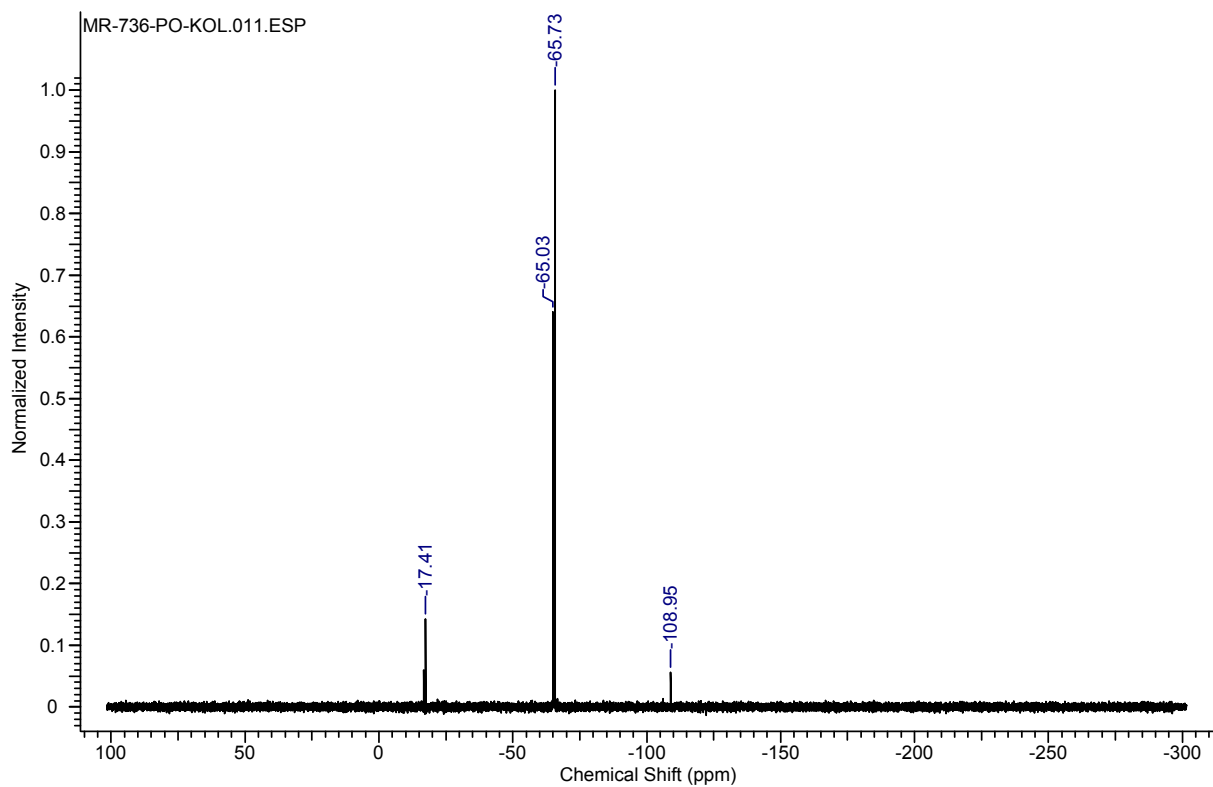
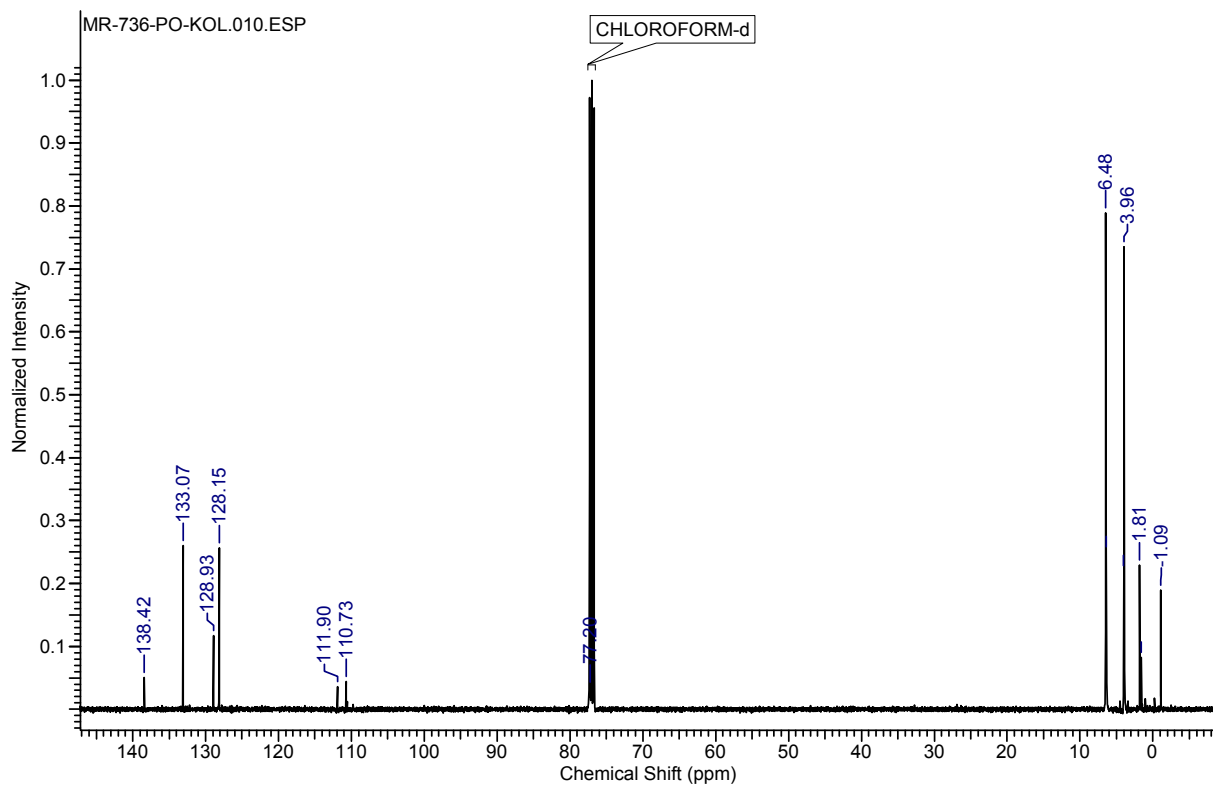
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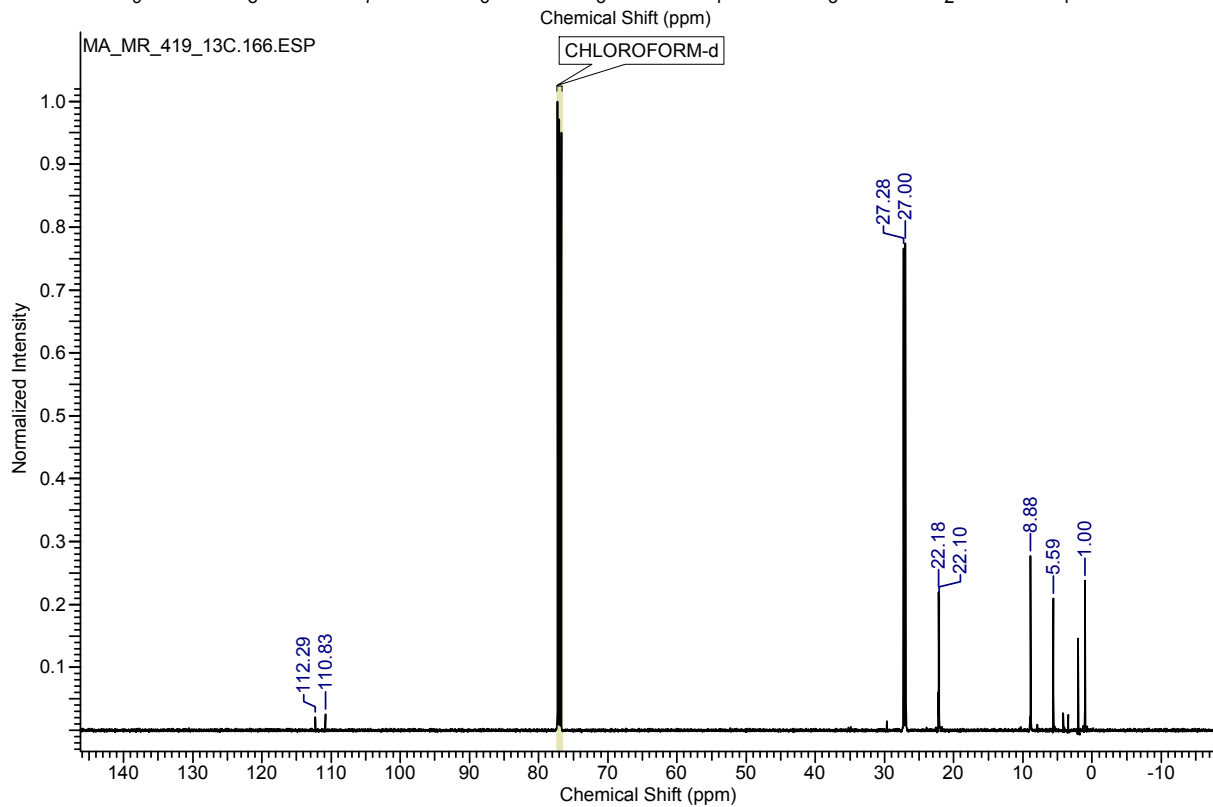
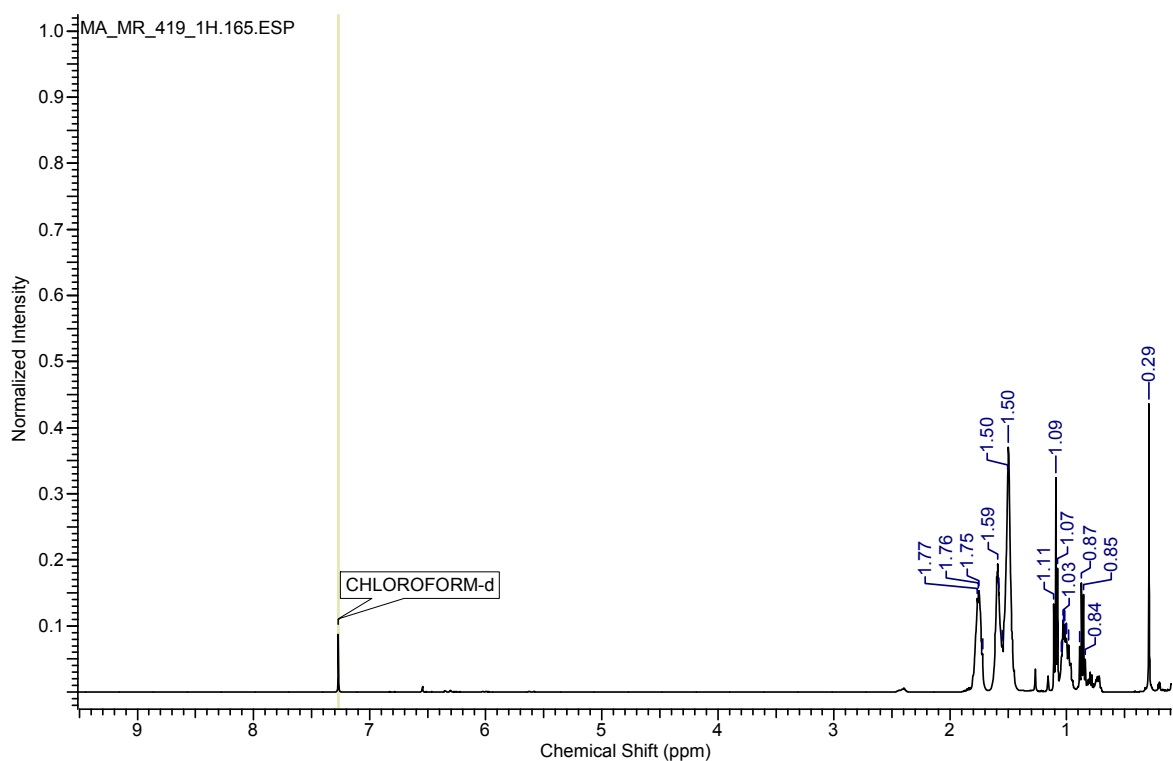
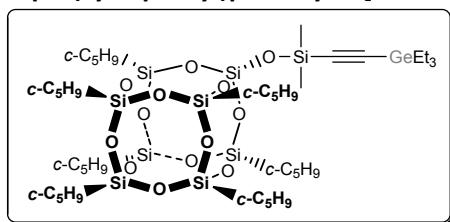


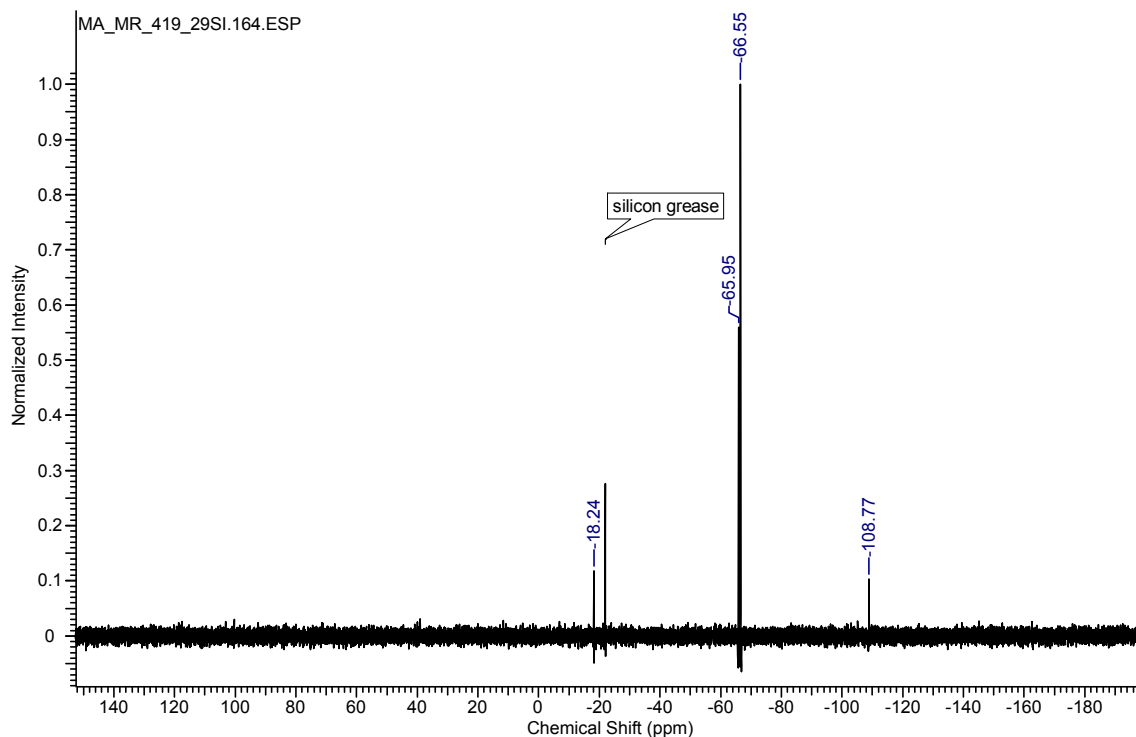
1-((dimethylphenylgermylethynyl)dimethylsiloxy)-3,5,7,9,11,13,15-hepta(ethyl)pentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]octasiloxane (12)



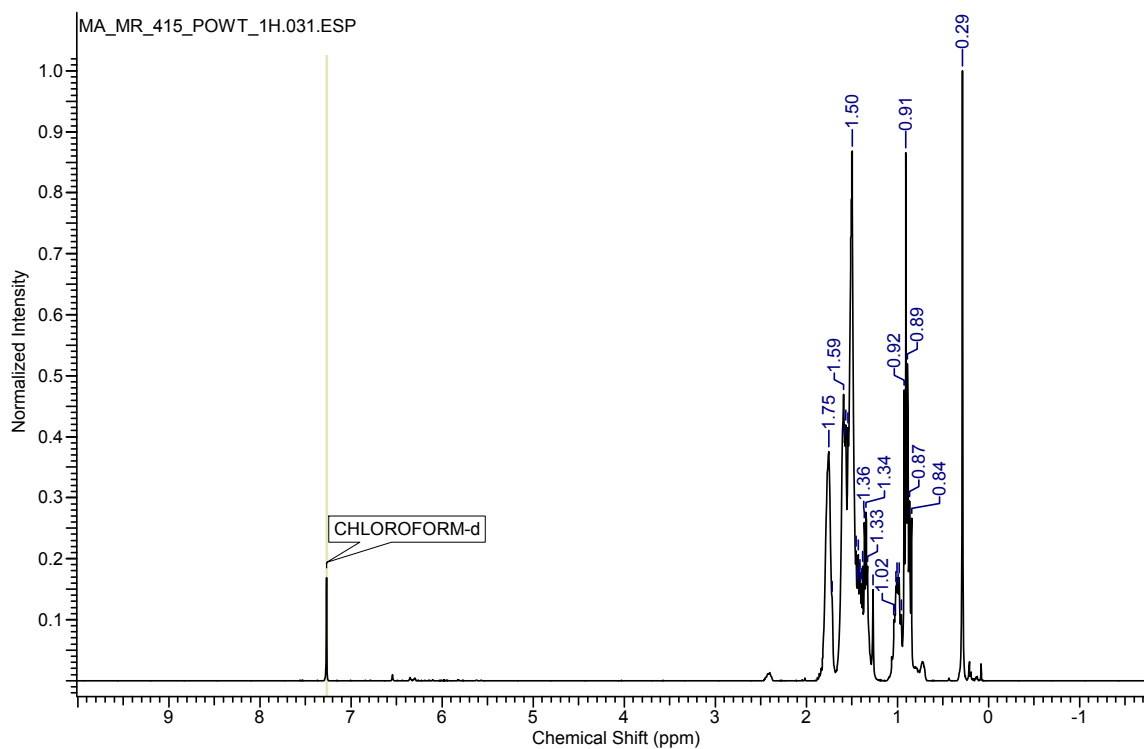
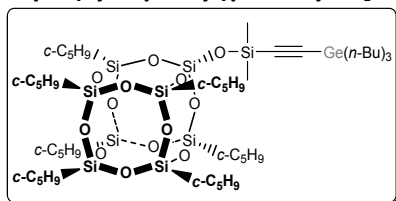


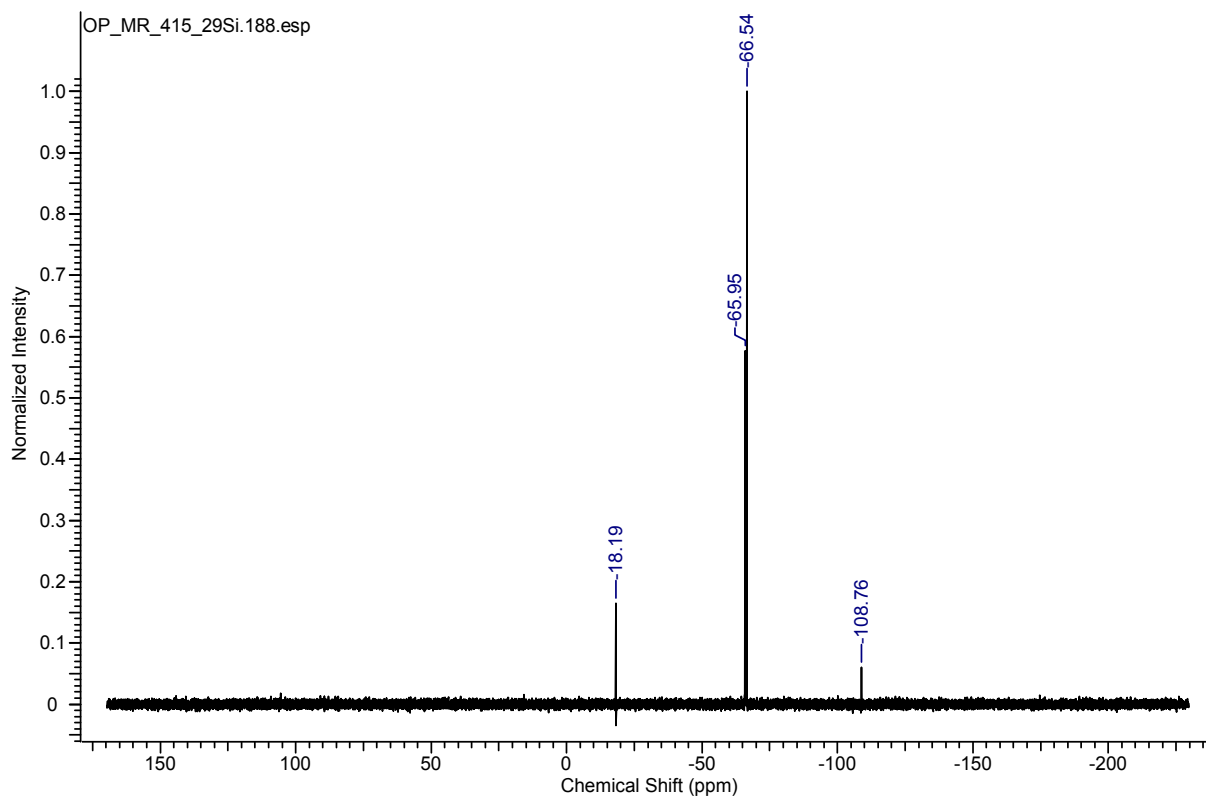
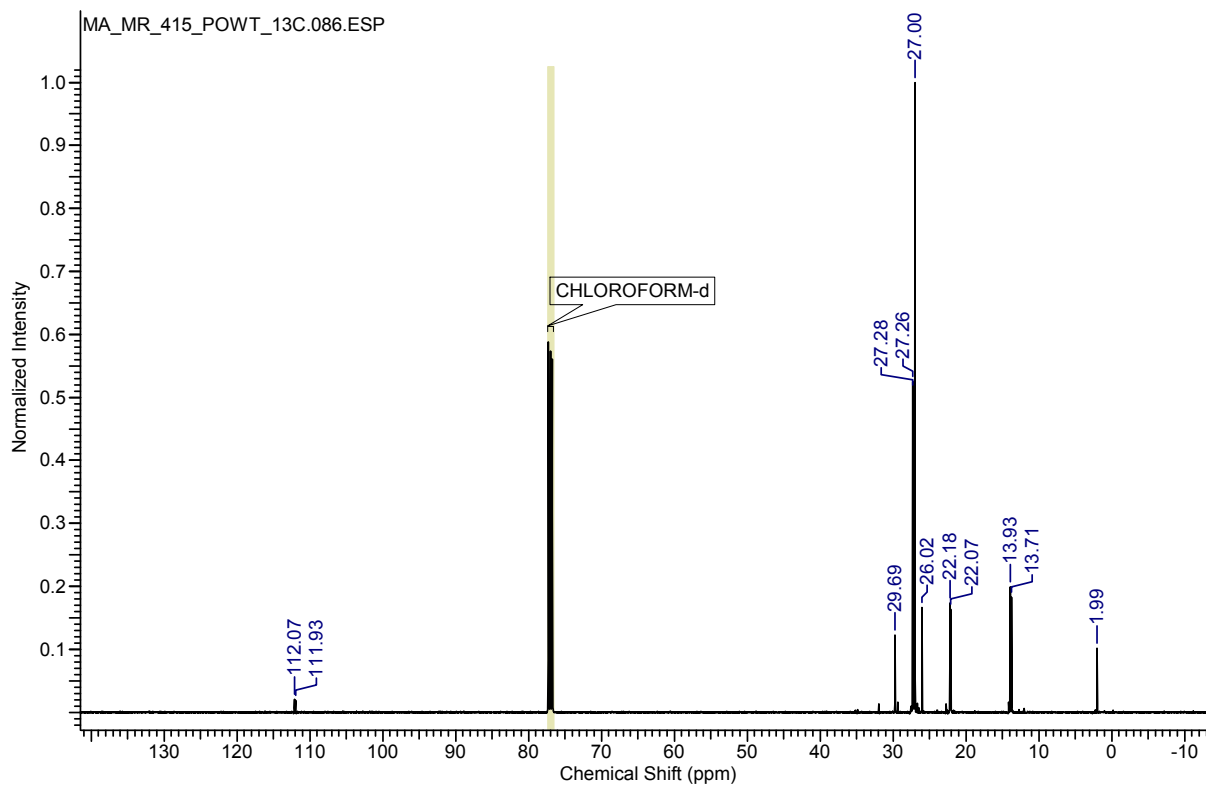
1-((triethylgermylethynyl)dimethylsiloxy)-3,5,7,9,11,13,15-hepta(cyclopentyl)pentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]octasiloxane (13)



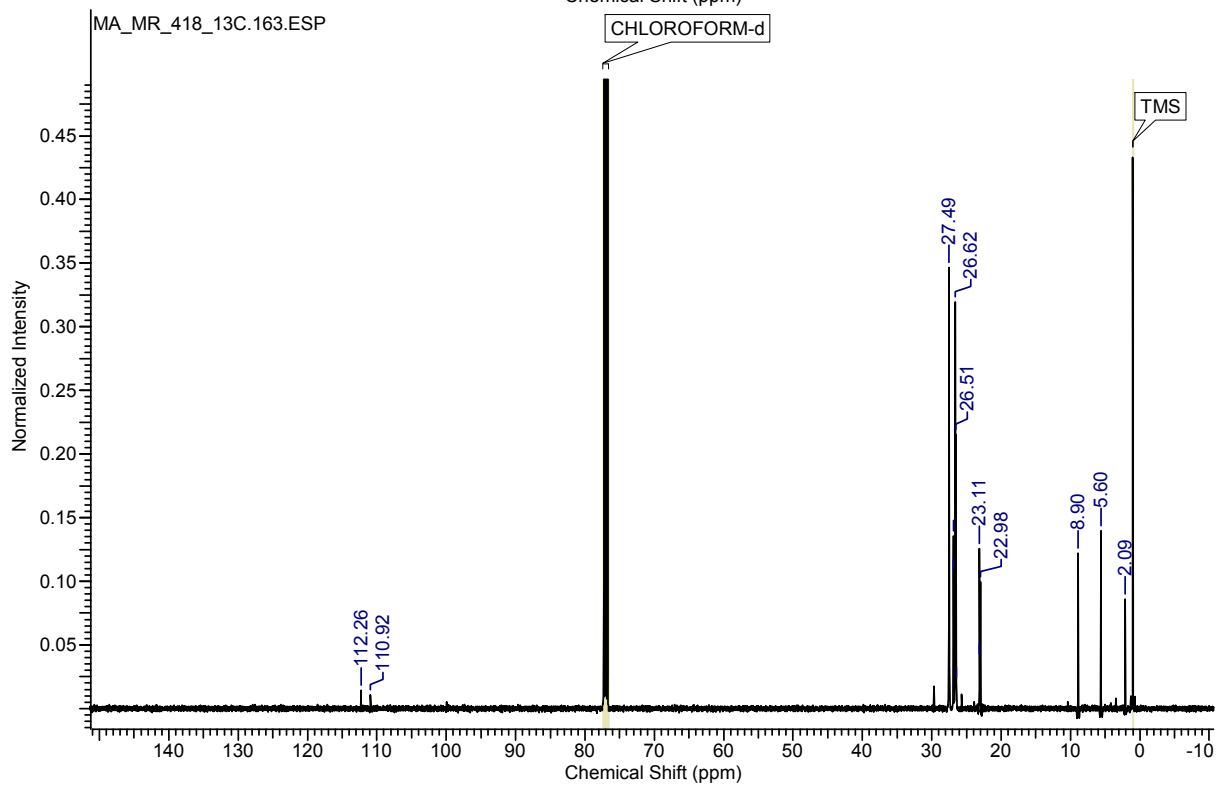
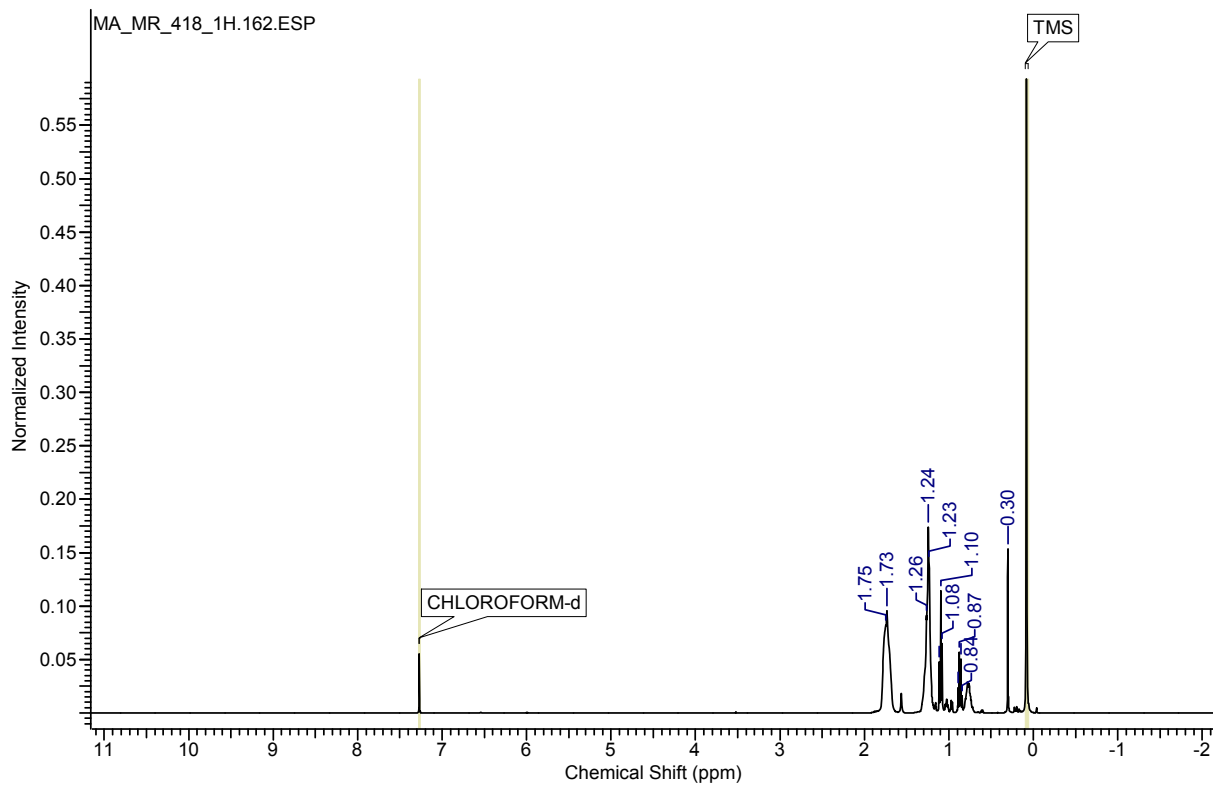
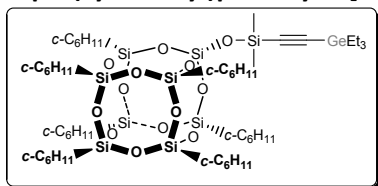


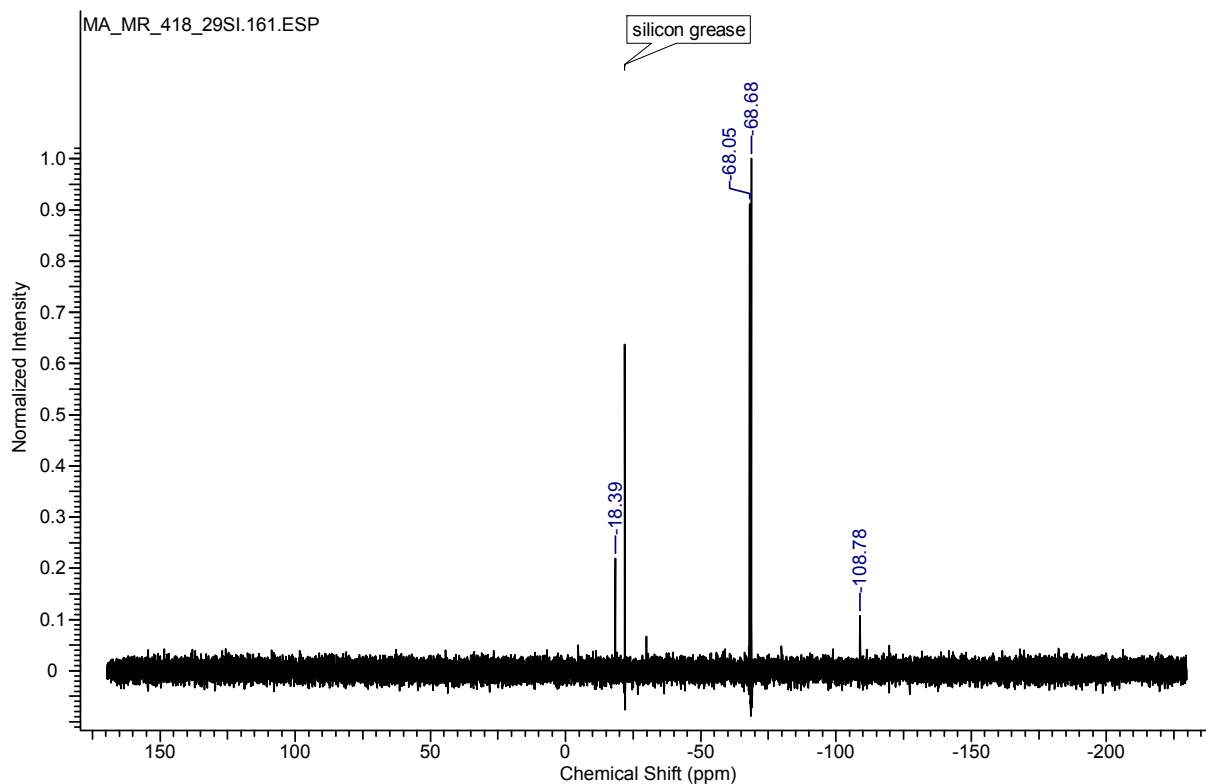
1-((tri(*n*-butyl)germylethynyl)dimethylsiloxy)-3,5,7,9,11,13,15-hepta(cyclopentyl)pentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]octasiloxane (14)





1-((triethylgermylethynyl)dimethylsiloxy)-3,5,7,9,11,13,15-hepta(cyclohexyl)pentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]octasiloxane (15)





1-((tri(*n*-butyl)germylethynyl)dimethylsiloxyl)-3,5,7,9,11,13,15-hepta(cyclohexylo)pentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]octasiloxane (16)

