



Supplementary Information

$(2S_p,4R,6R,8S_p)$ -4,6-Dimethyl-1-phenyl-diferroceno-1-phosphines

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1. Diamine phosphineoxide 2a

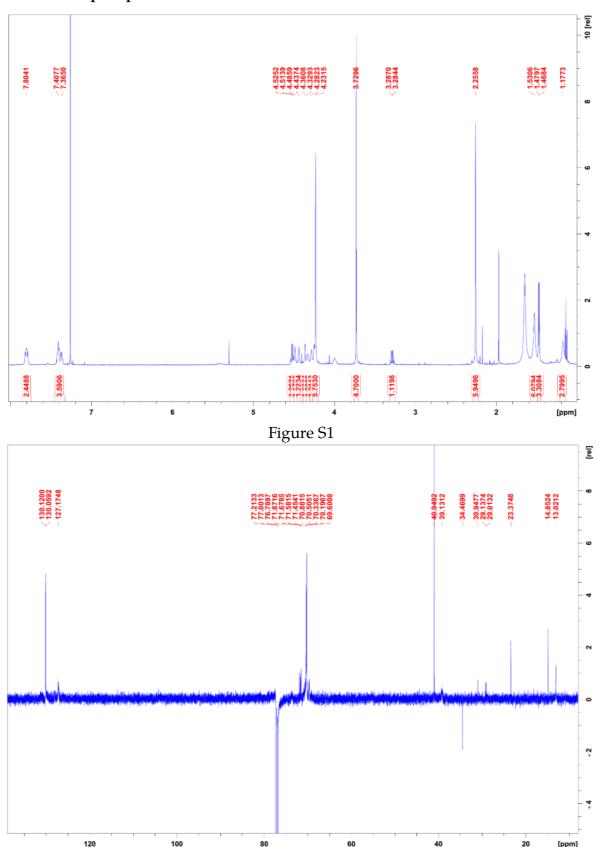


Figure S2

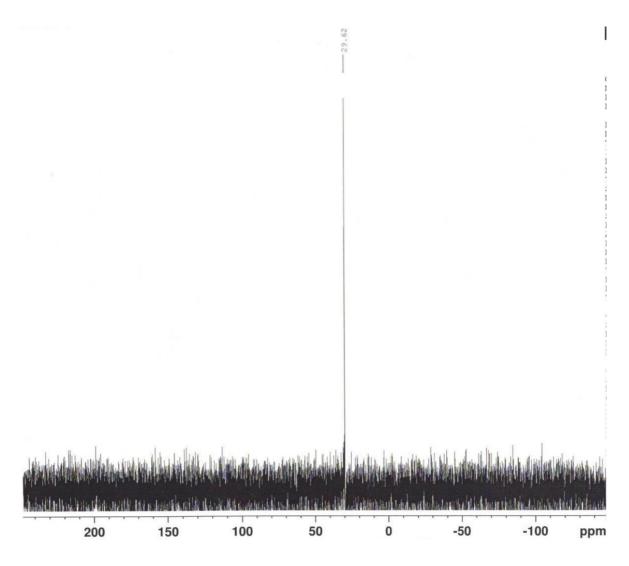


Figure S3

2. Phosphineoxide ether 4a

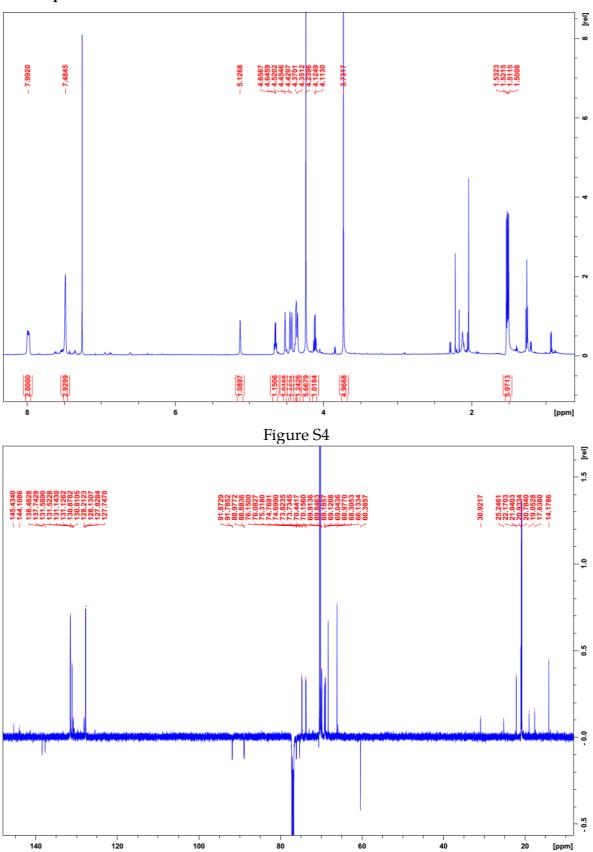


Figure S5

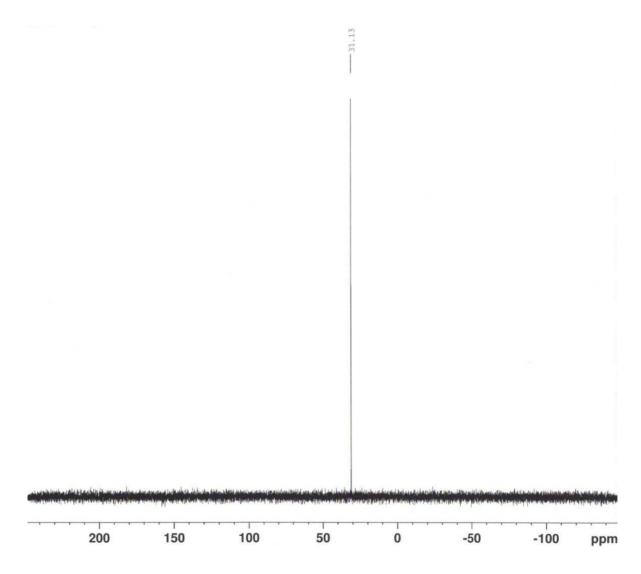
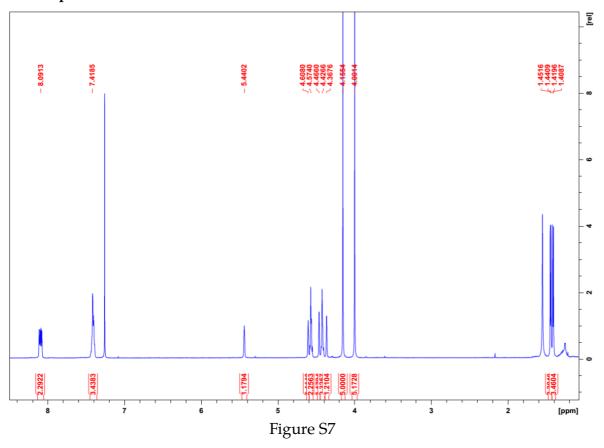


Figure S6

3. Phosphinesulfide ether 4b



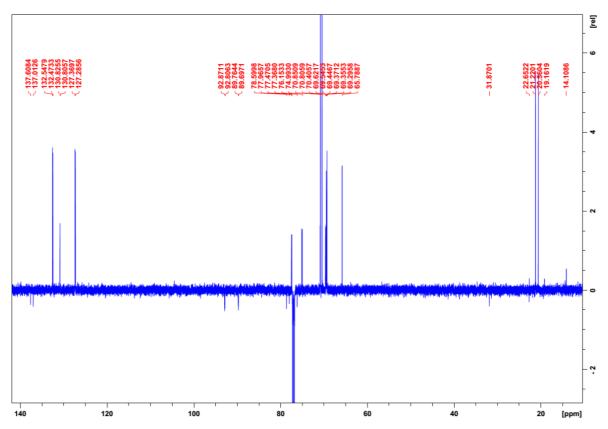


Figure S8

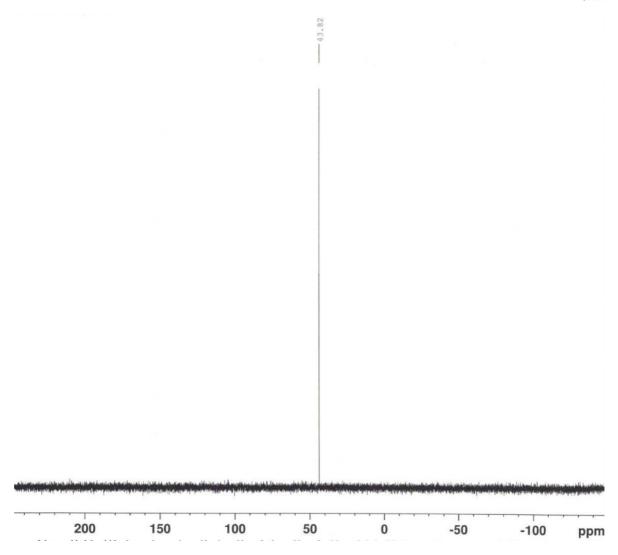


Figure S9

4. Phosphineoxide thioether 7a

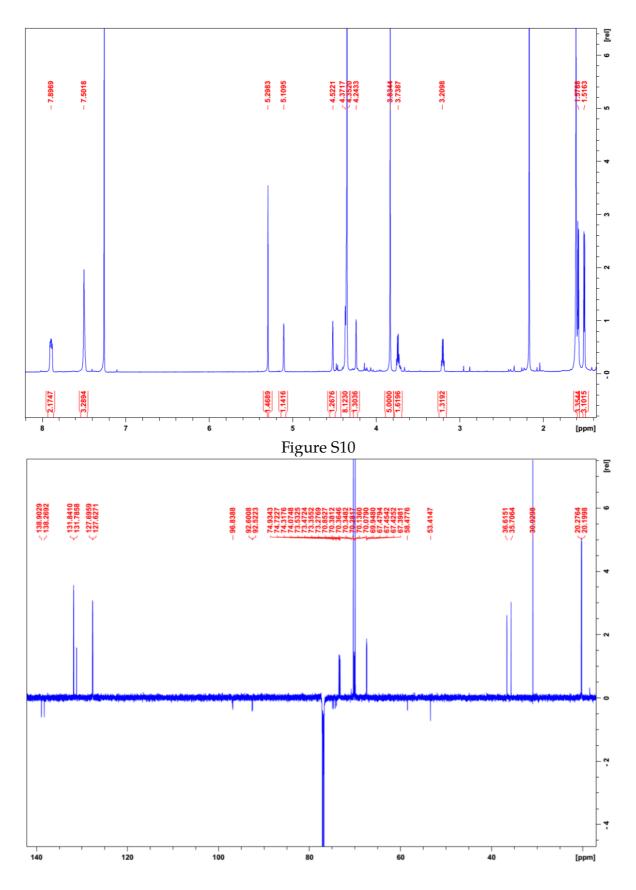


Figure S11

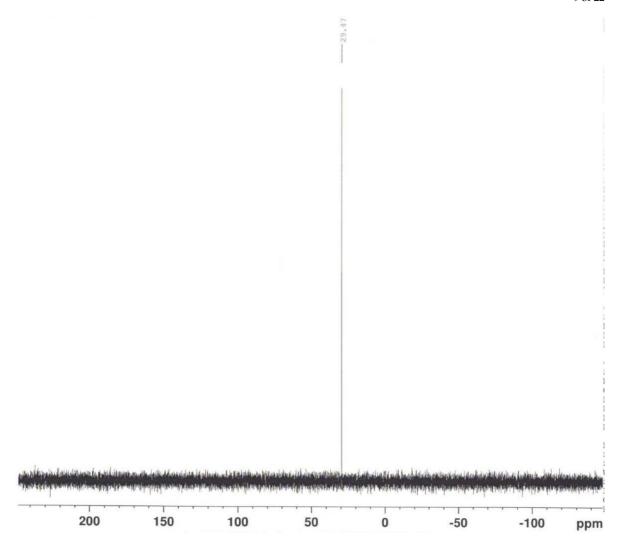
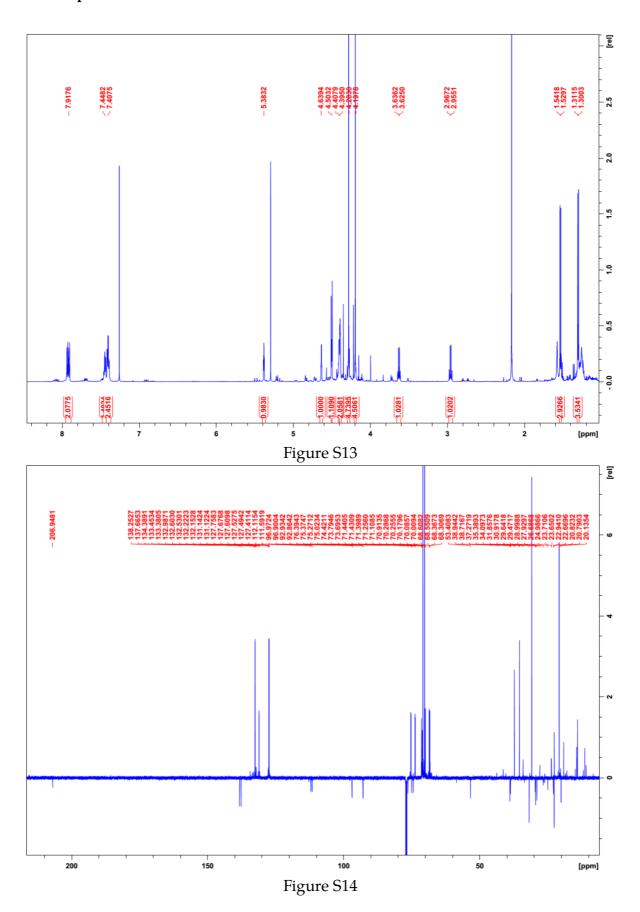


Figure S12

5. Phosphinesulfide thioether 7b





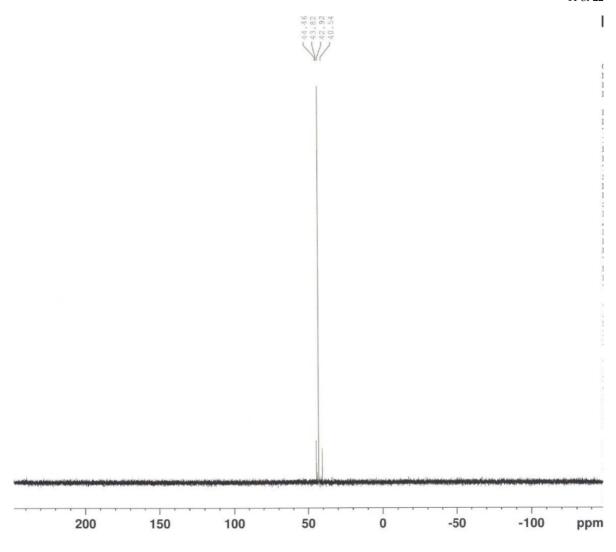
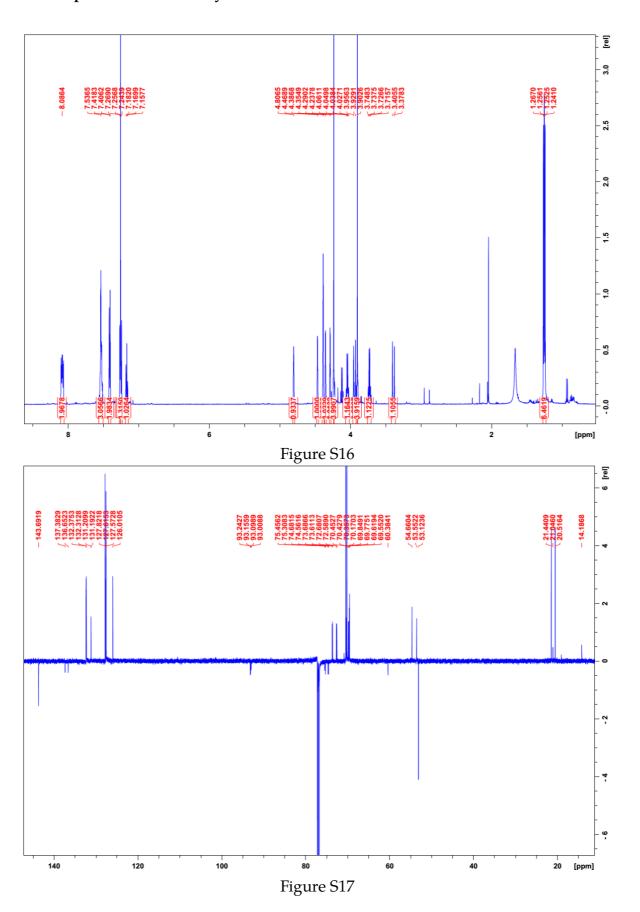
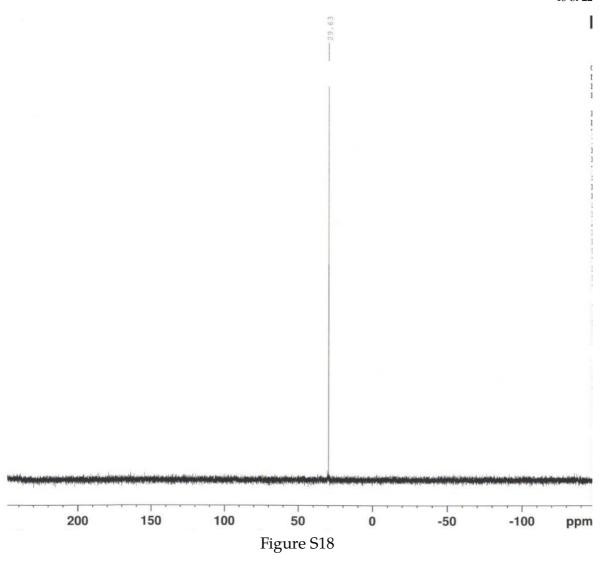


Figure S15

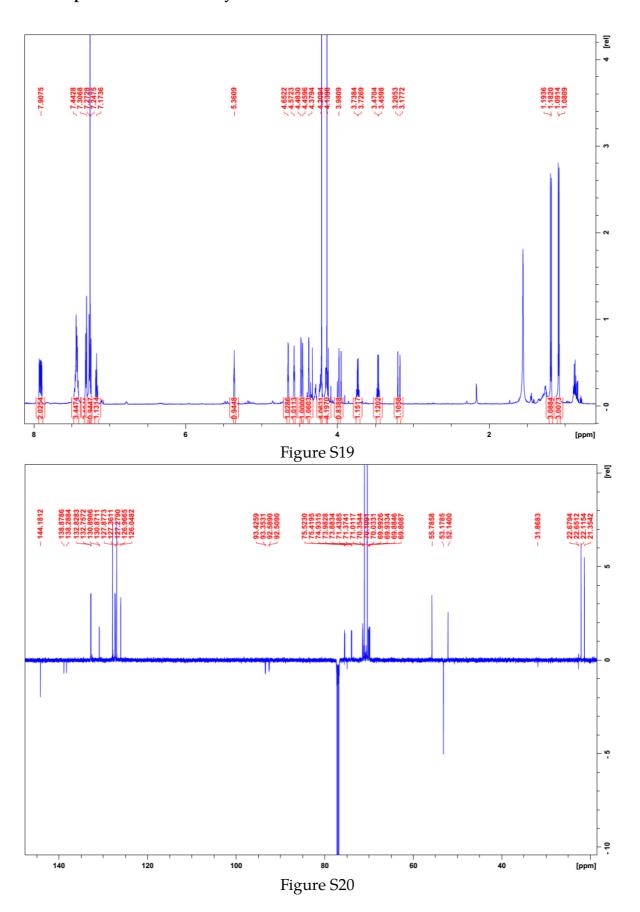
6. Phosphineoxide N-benzyl 8a

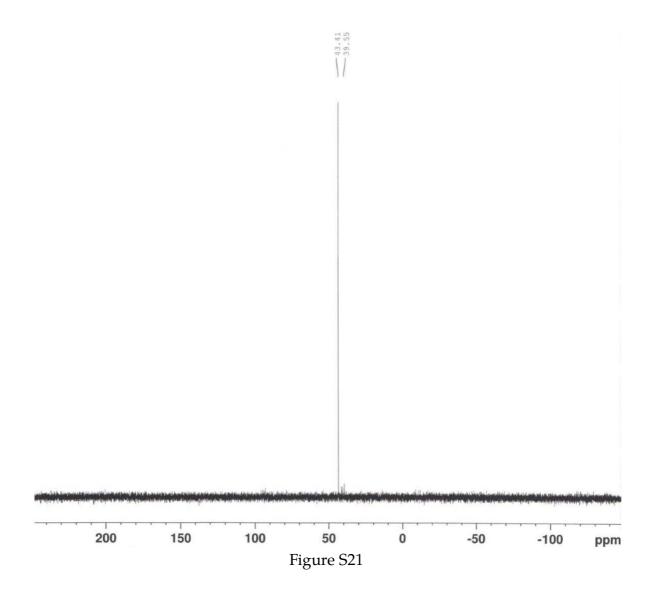


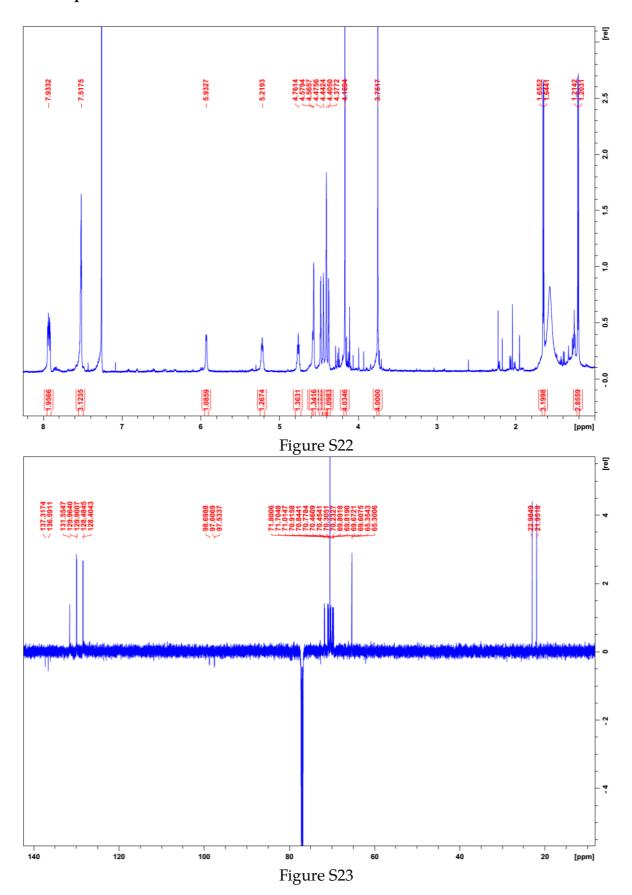


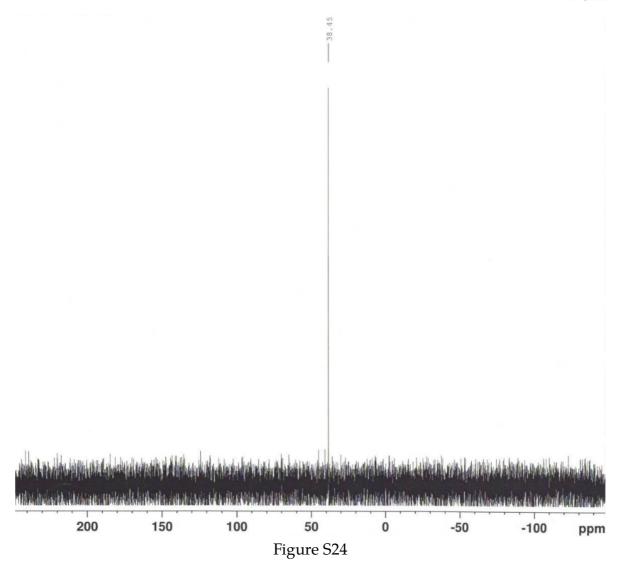


7. Phosphinesulfide N-benzyl 8b









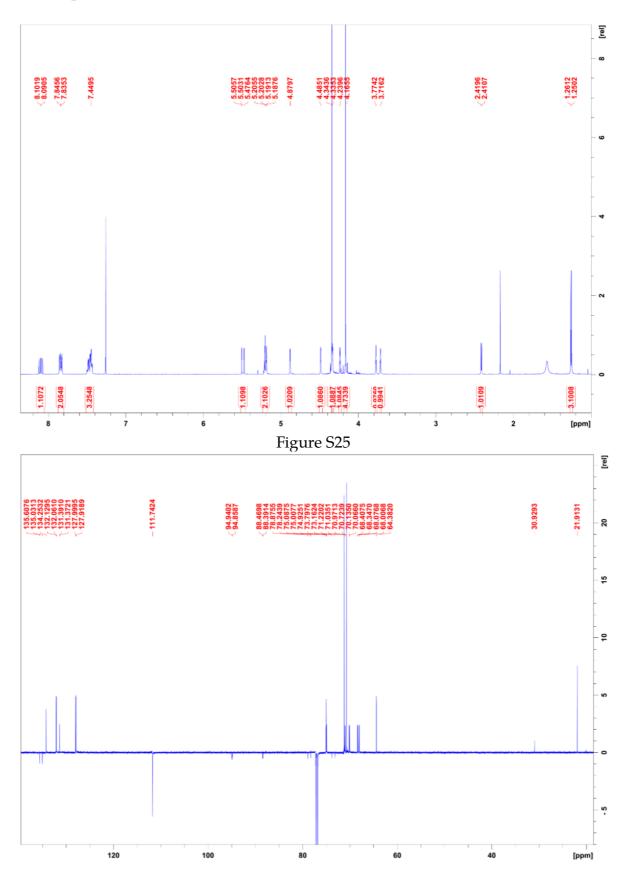


Figure S26



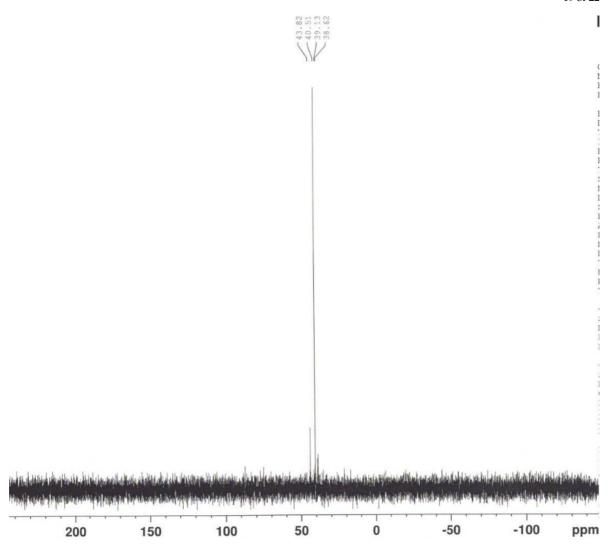


Figure S27

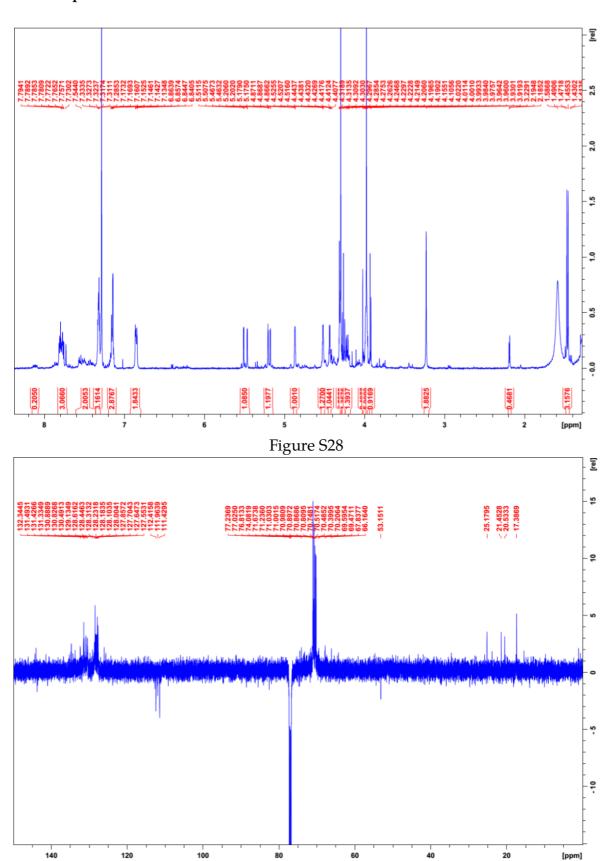


Figure S29



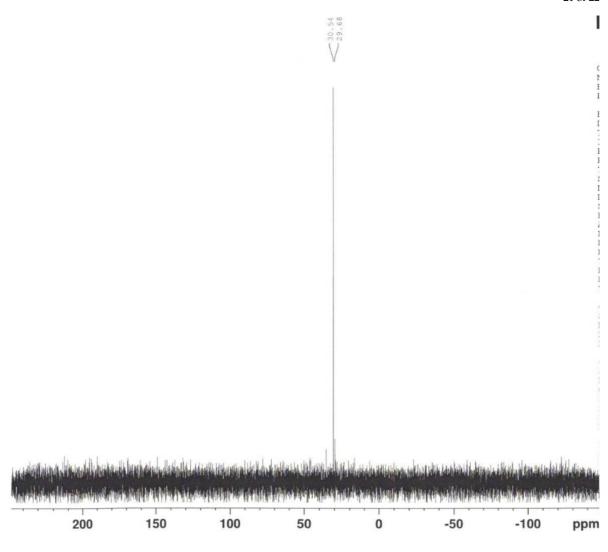


Figure S30

