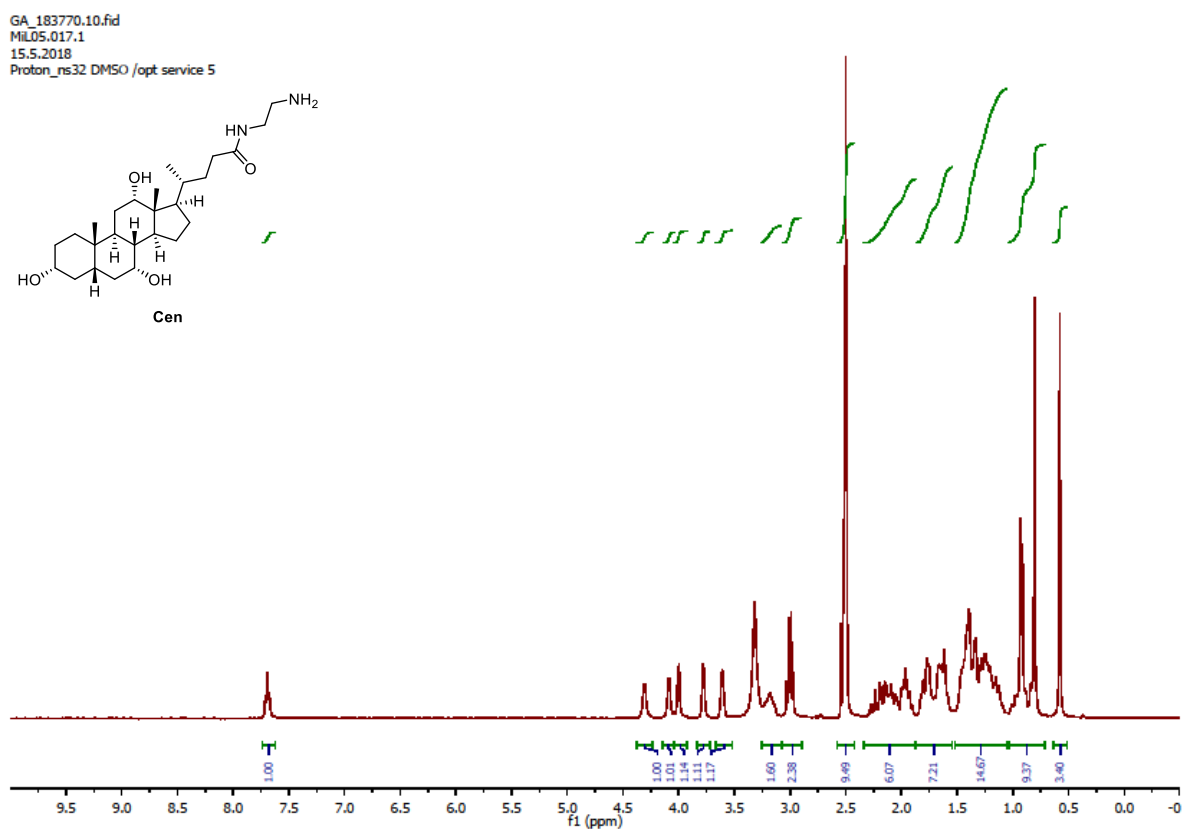
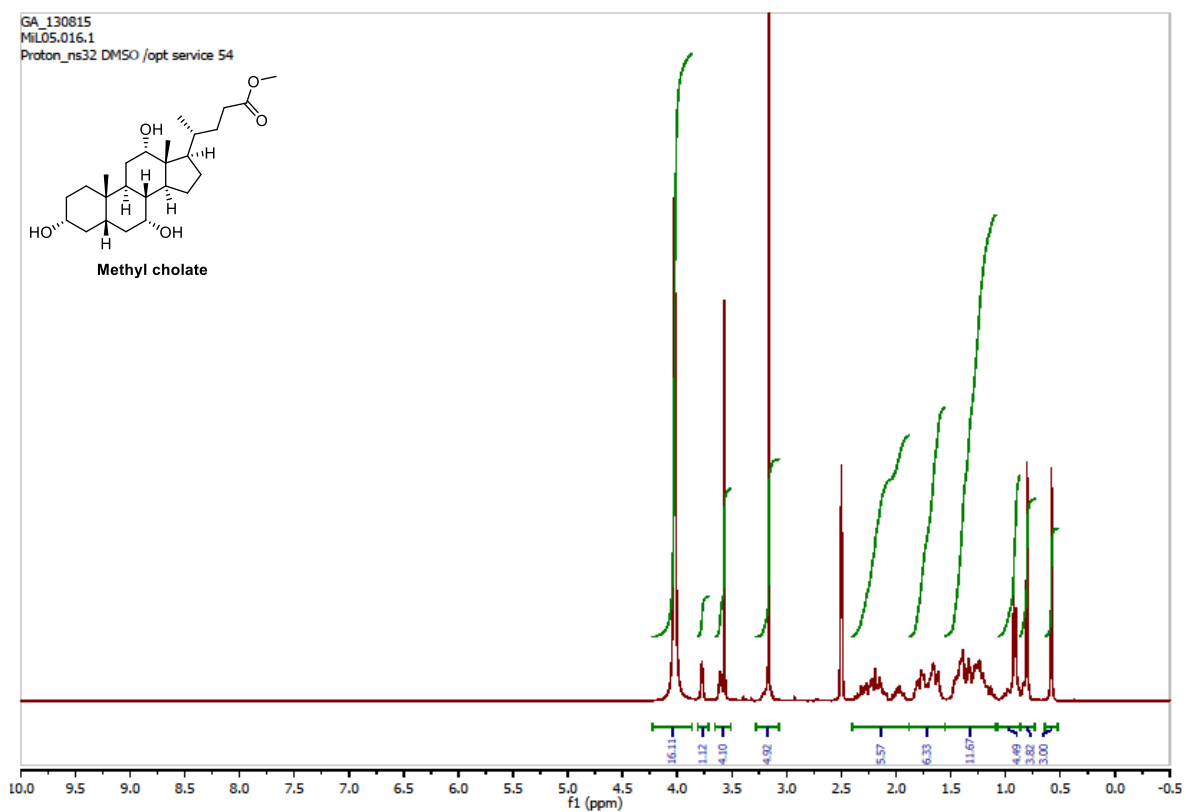
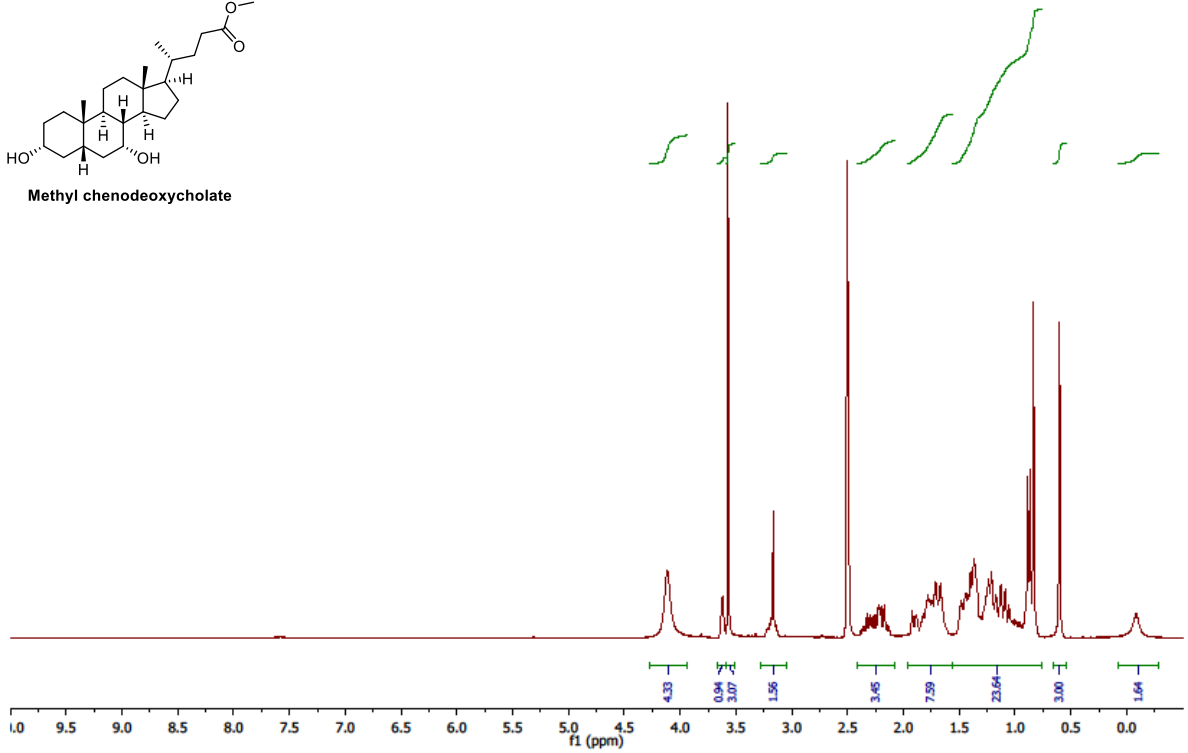
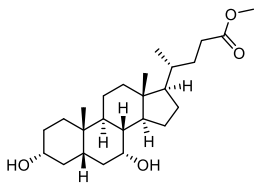


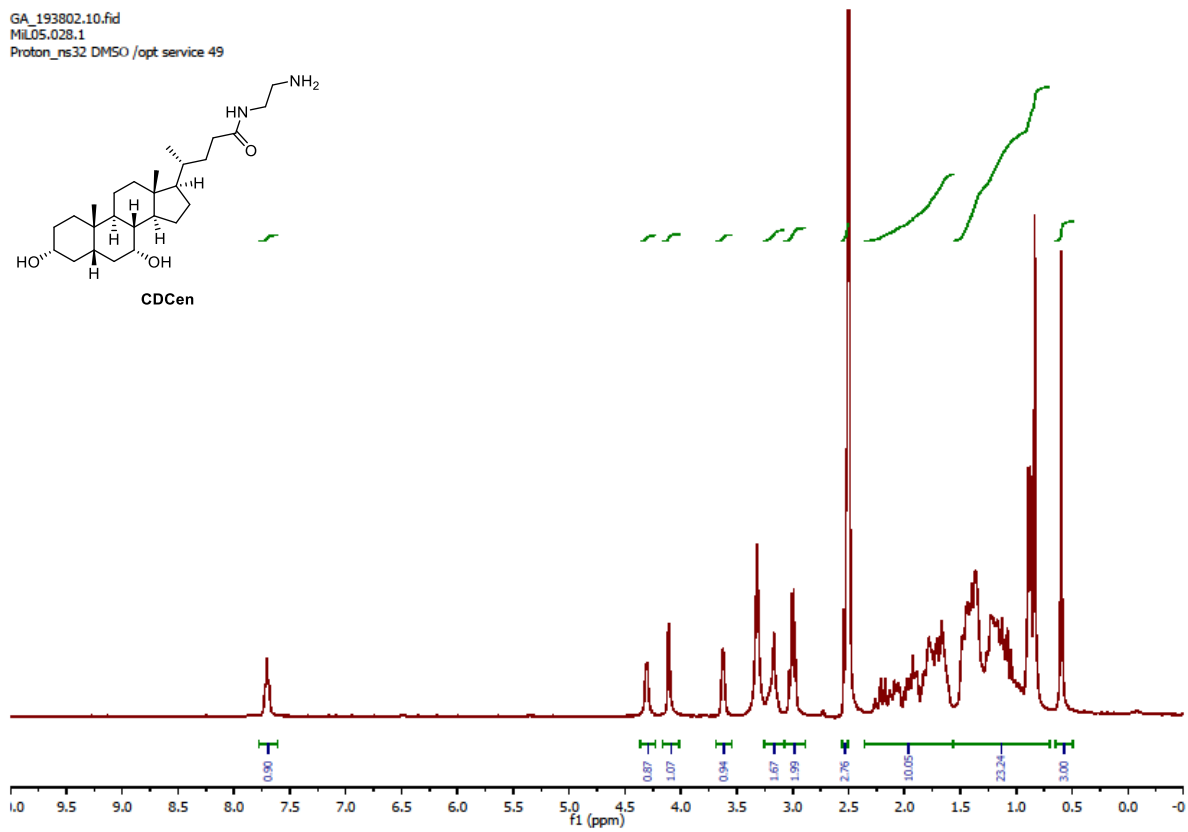
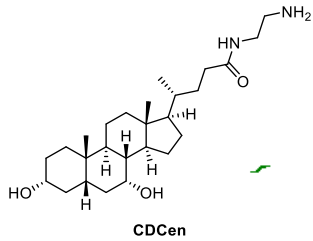
1. ^1H , ^{13}C and ^{19}F NMR spectra of synthetic intermediates and final compounds



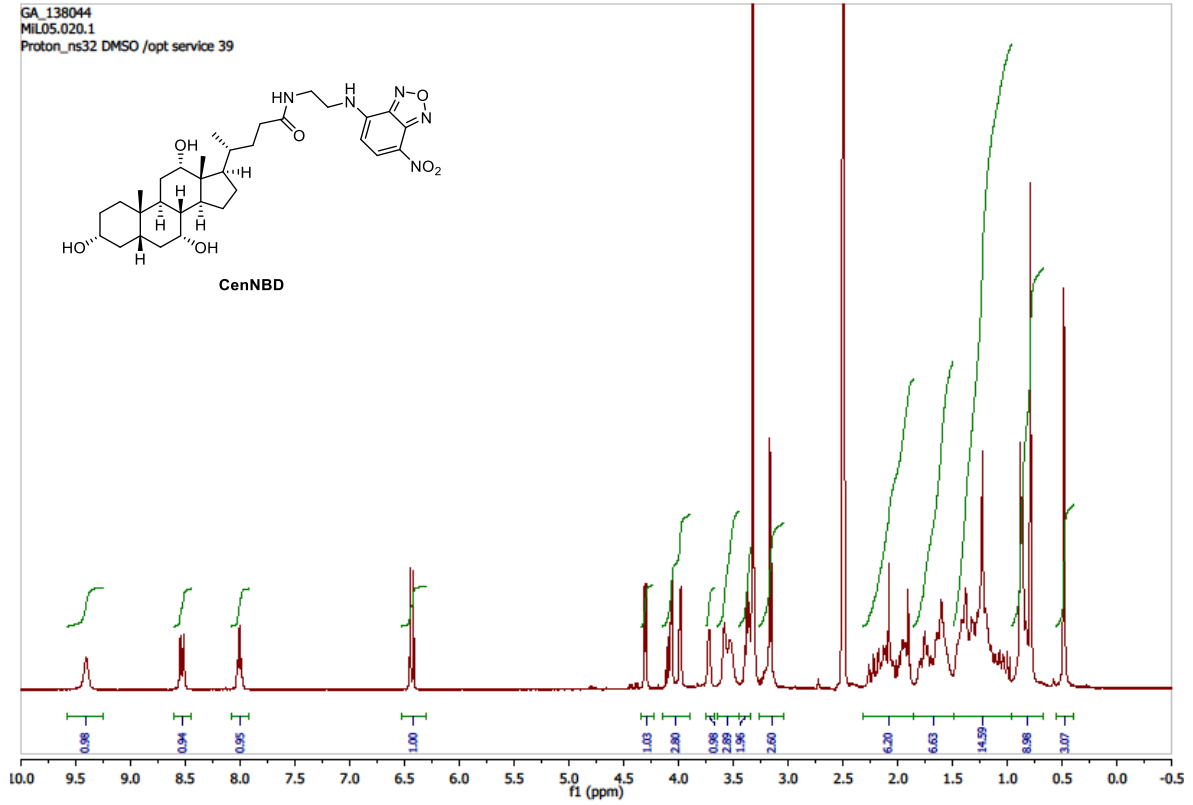
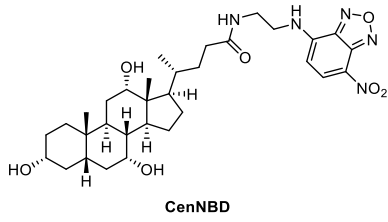
GA_193865.10.fid
MIL05.041.1
Proton_rs32 DMSO /opt service 51



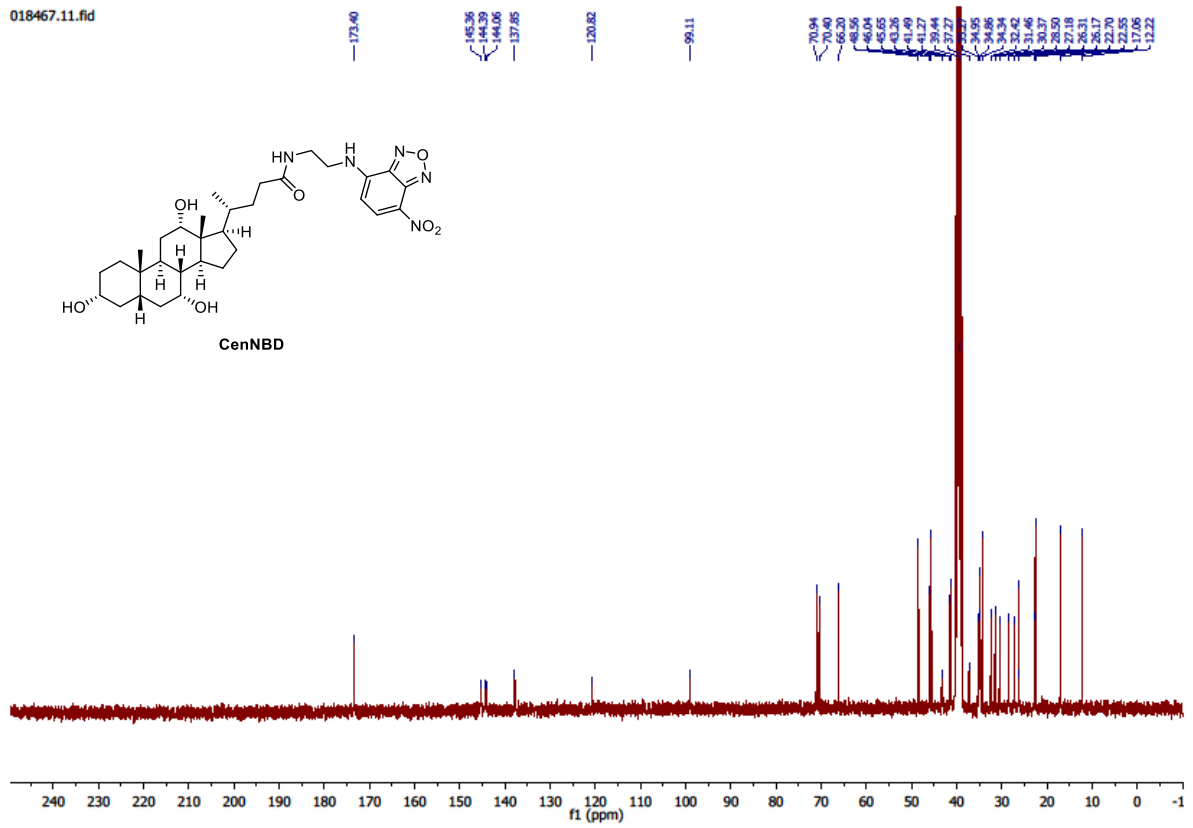
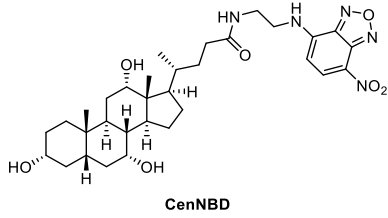
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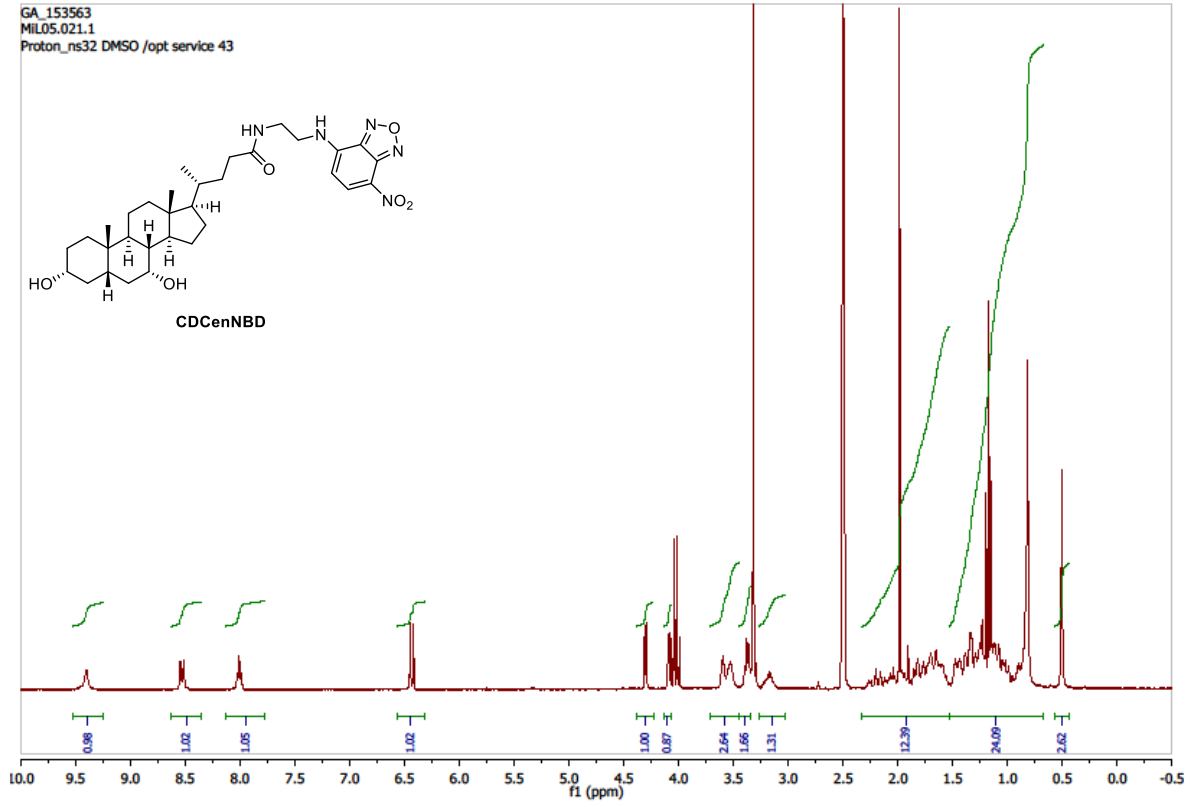
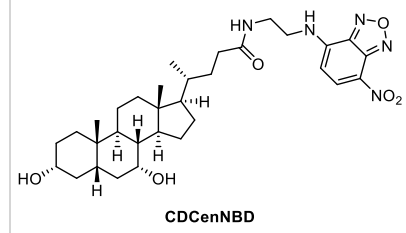
GA_138044
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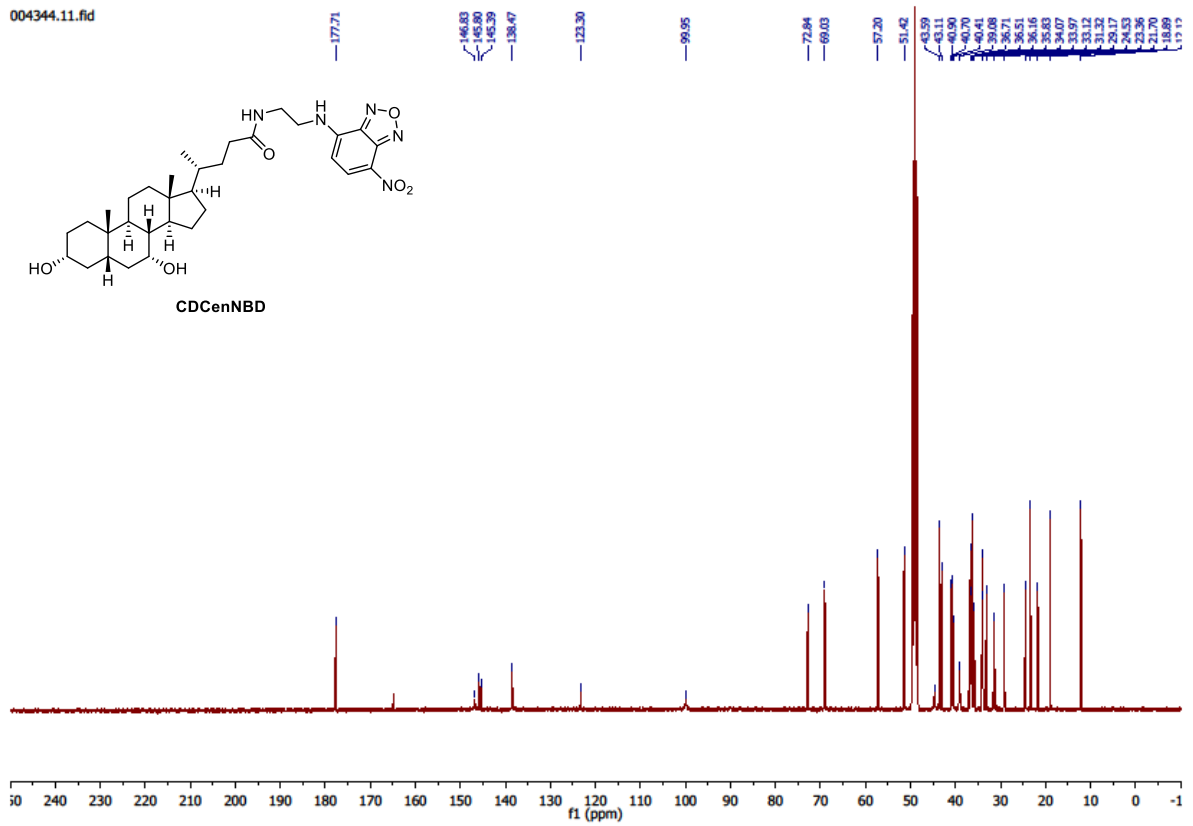
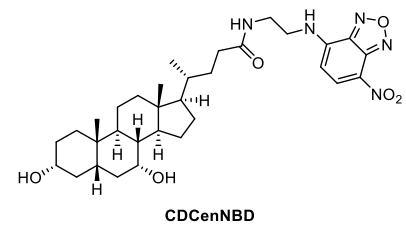
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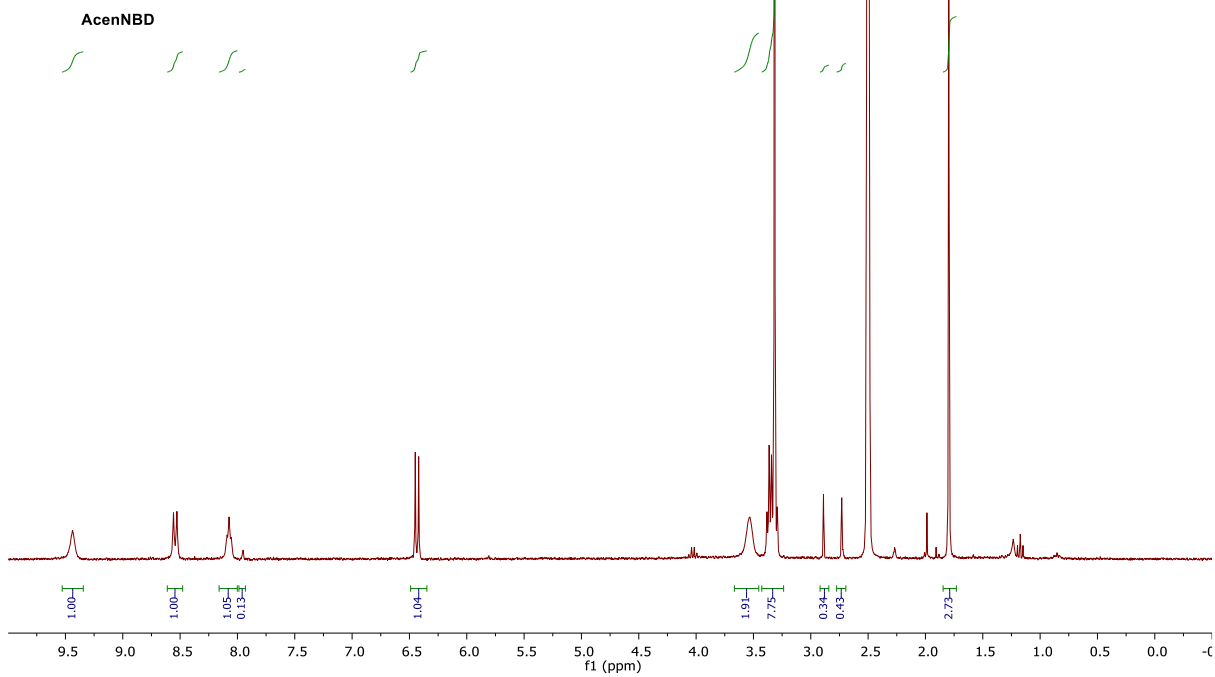
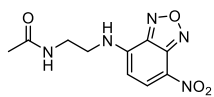
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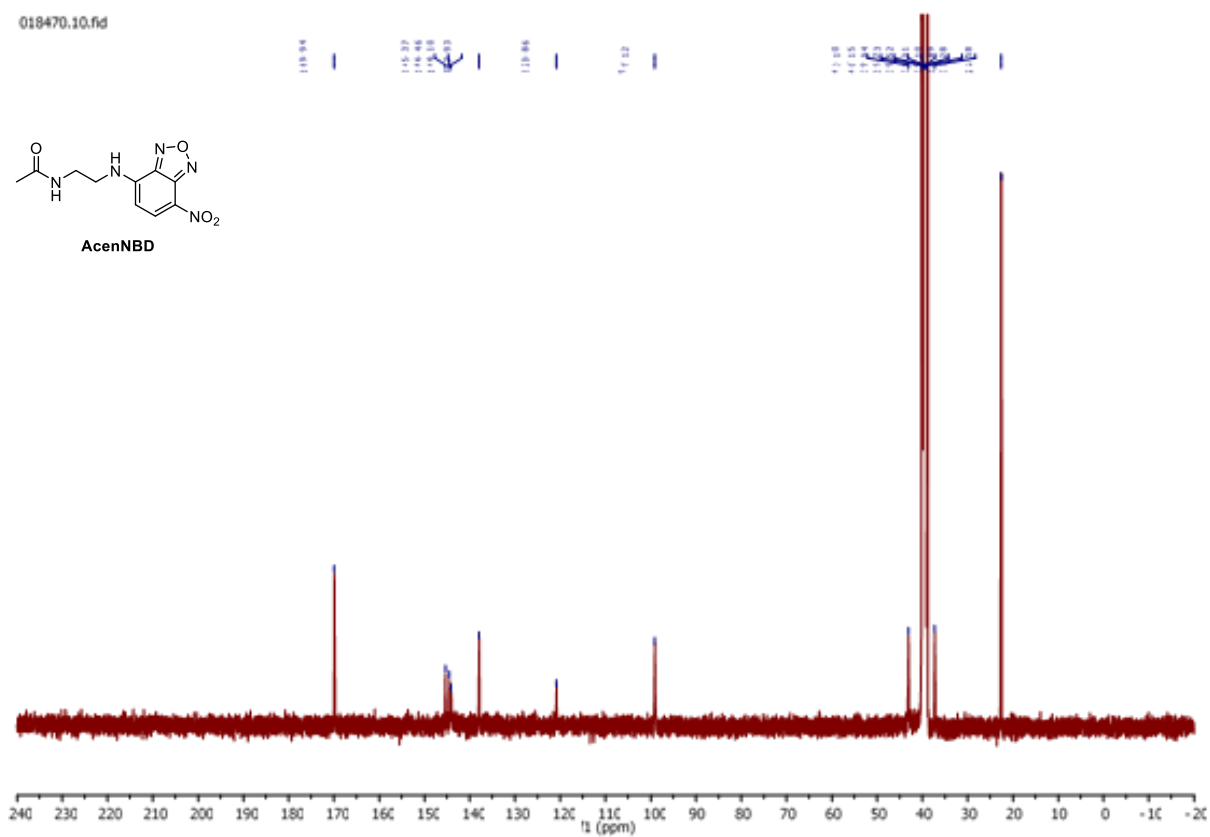
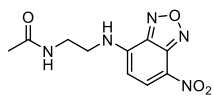
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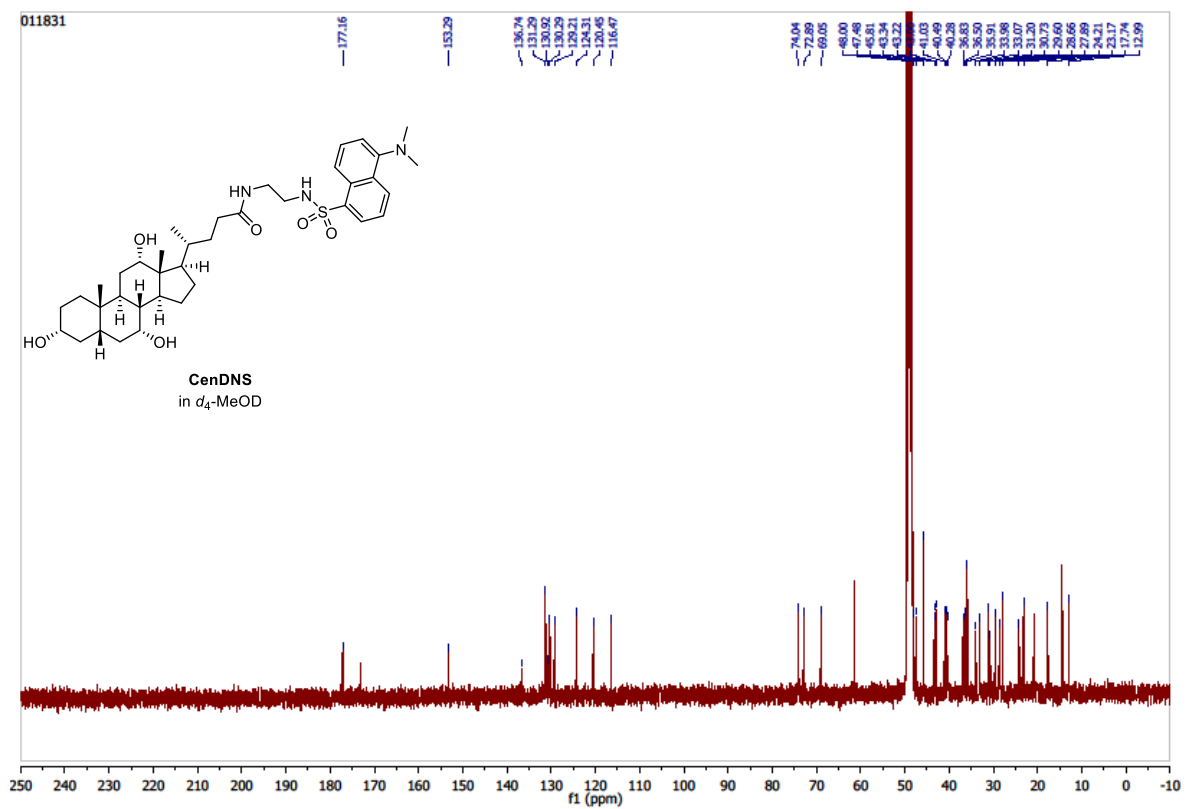
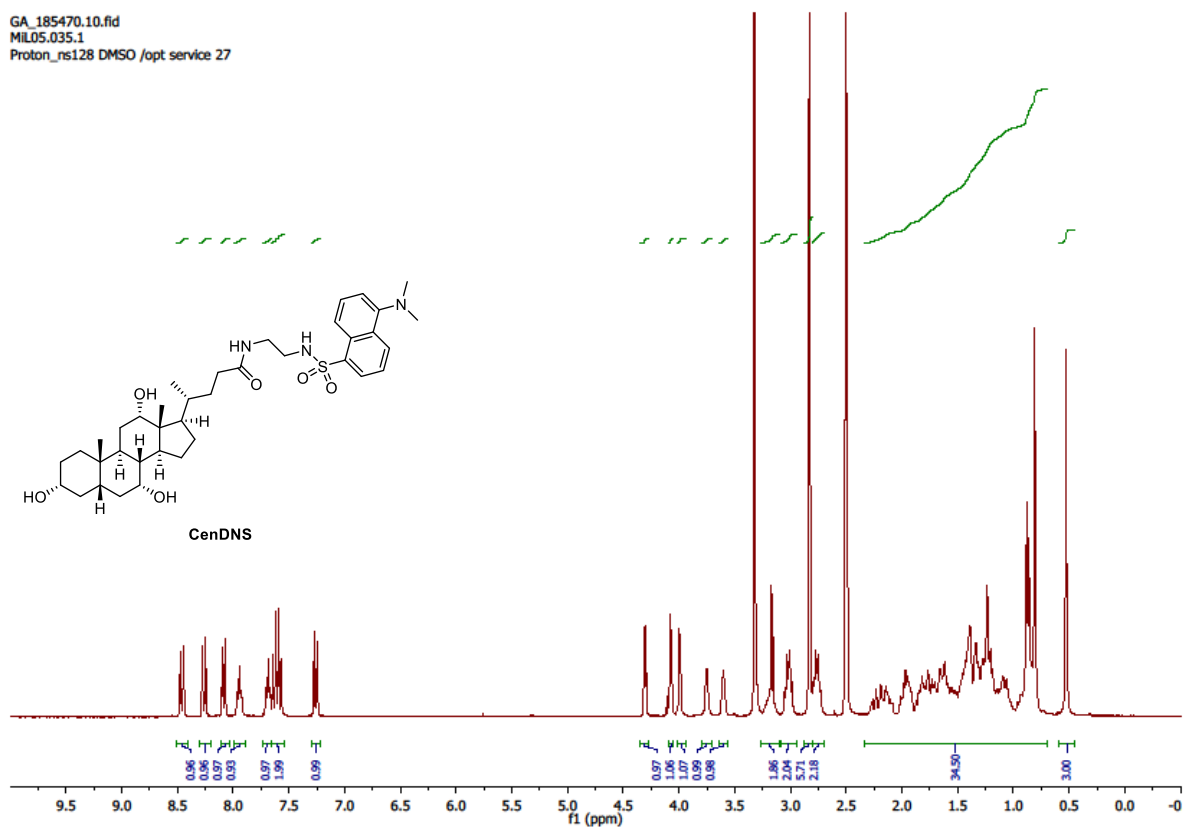
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Proton_ns32 DMSO /opt service 59



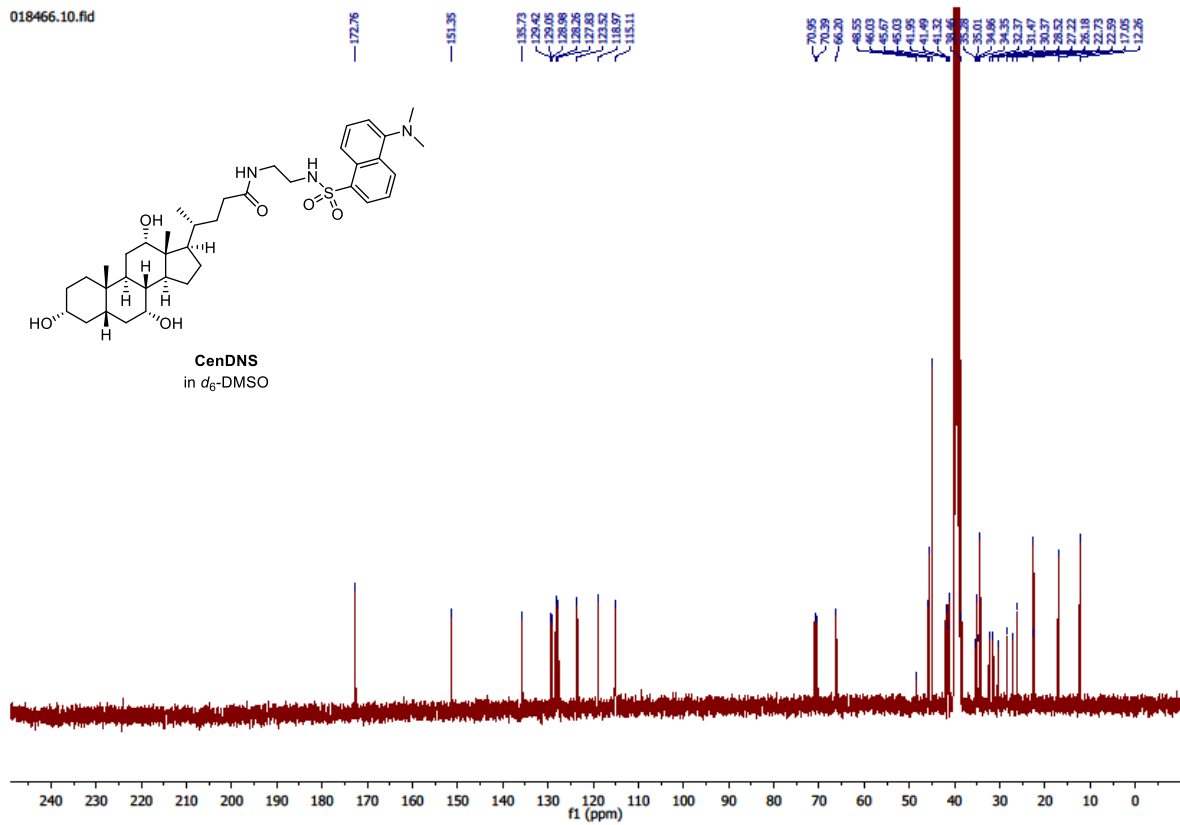
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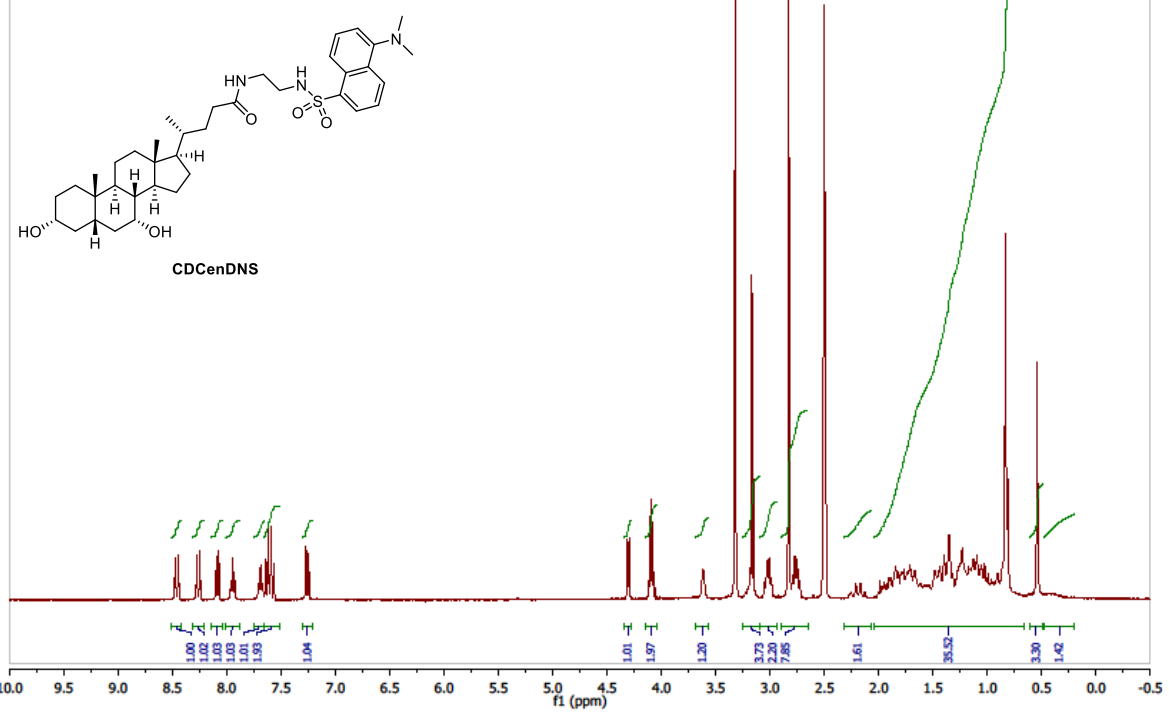
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MIL05.035.1
Proton_rs128 DMSO /opt service 27



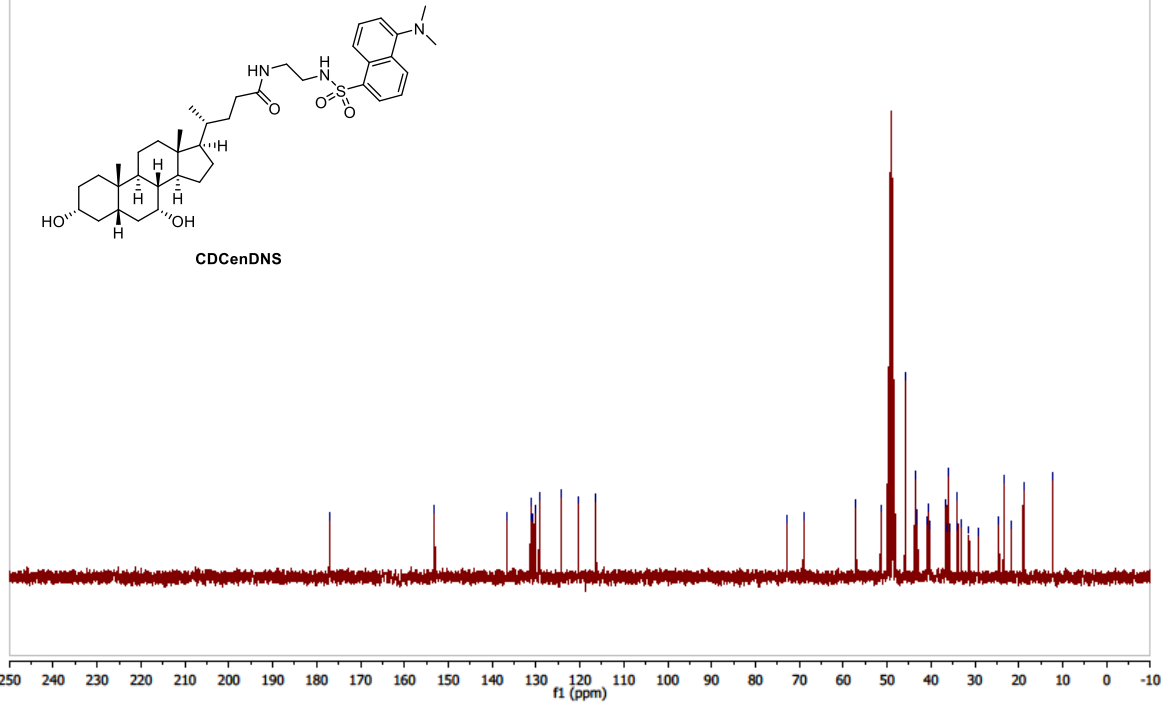
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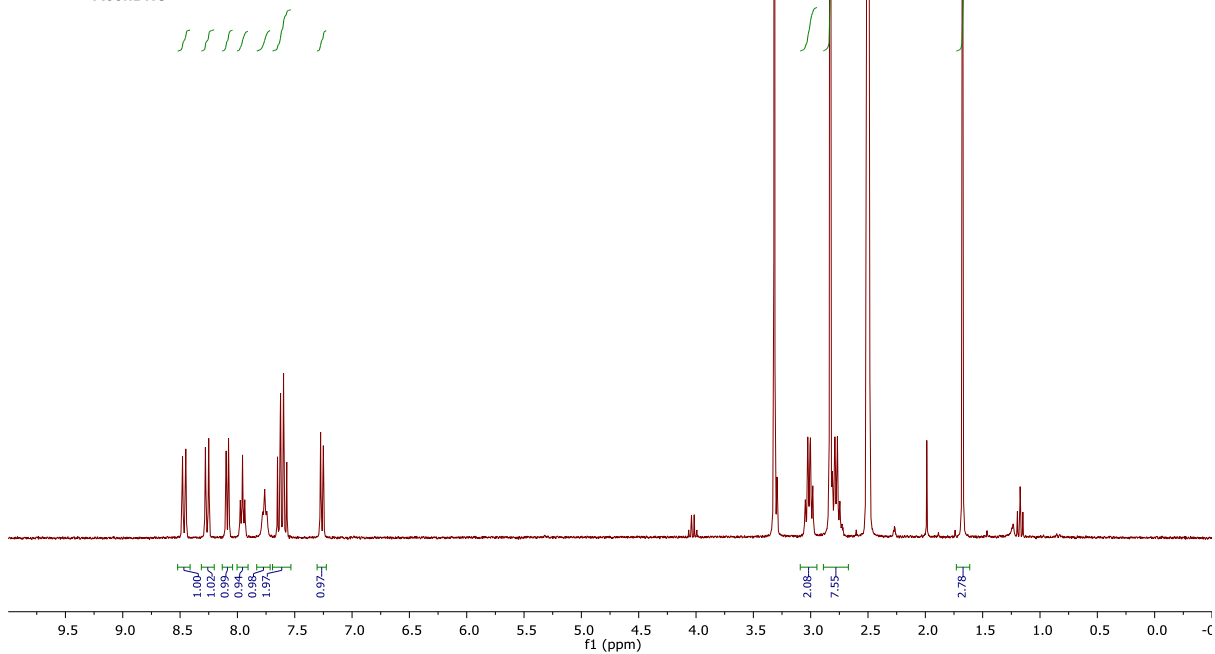
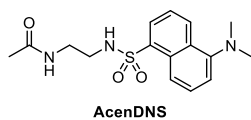
GA_160871
MIL05.030.1
Proton_ns32 DMSO /opt service 31



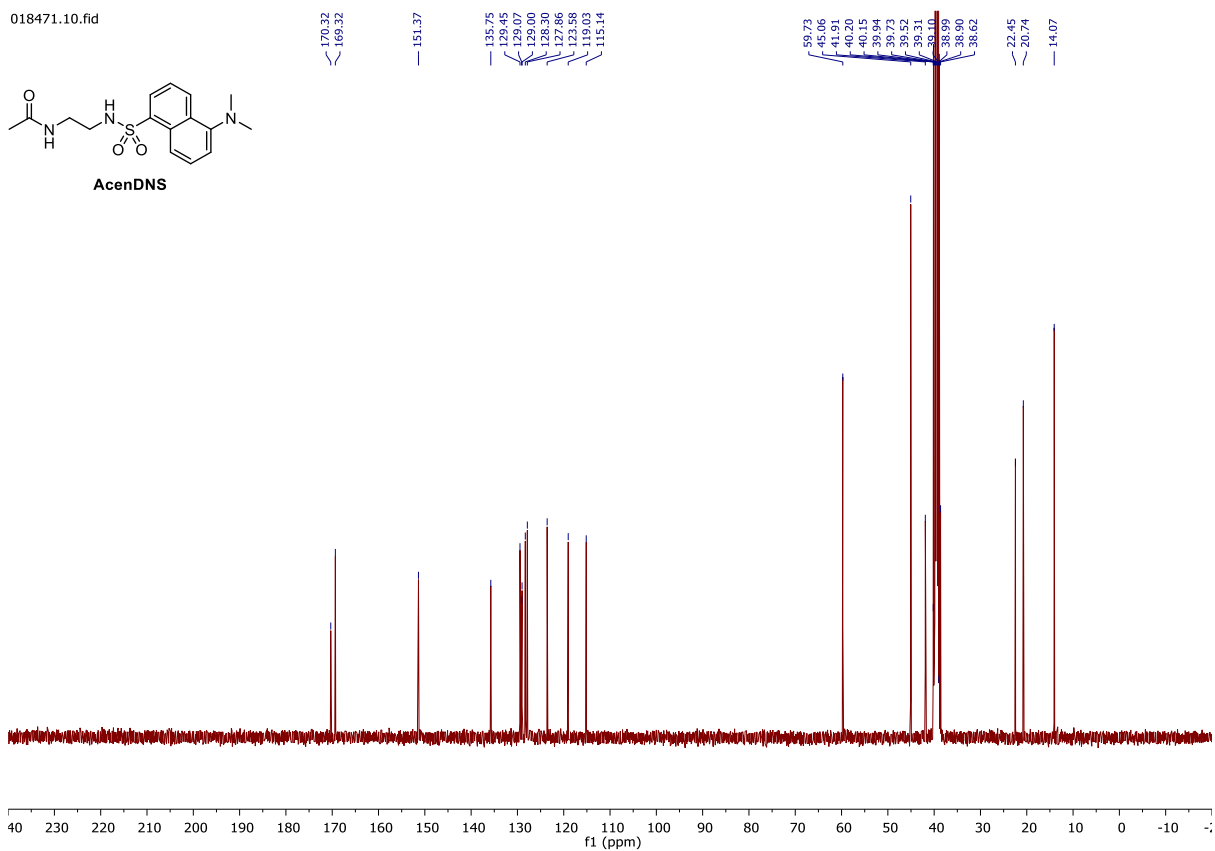
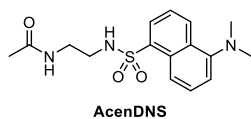
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Carbon_ns64 MeOD /opt service 11



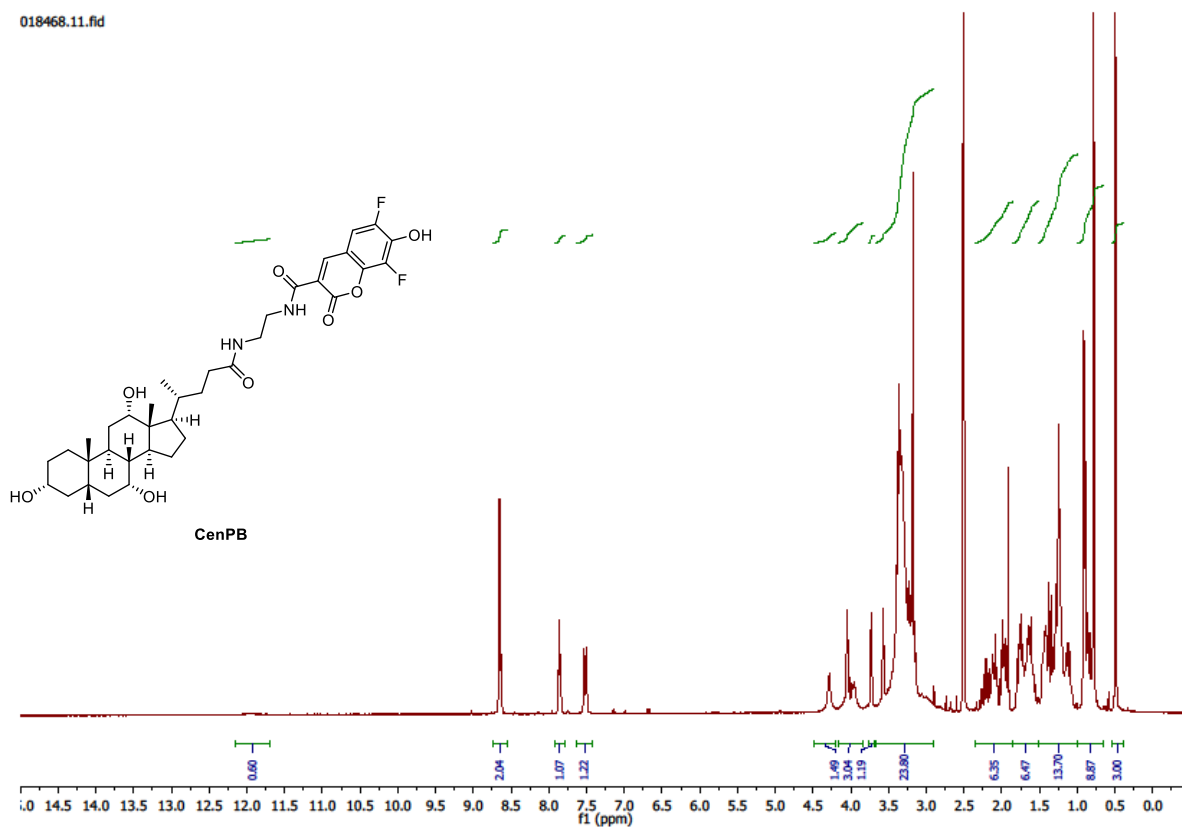
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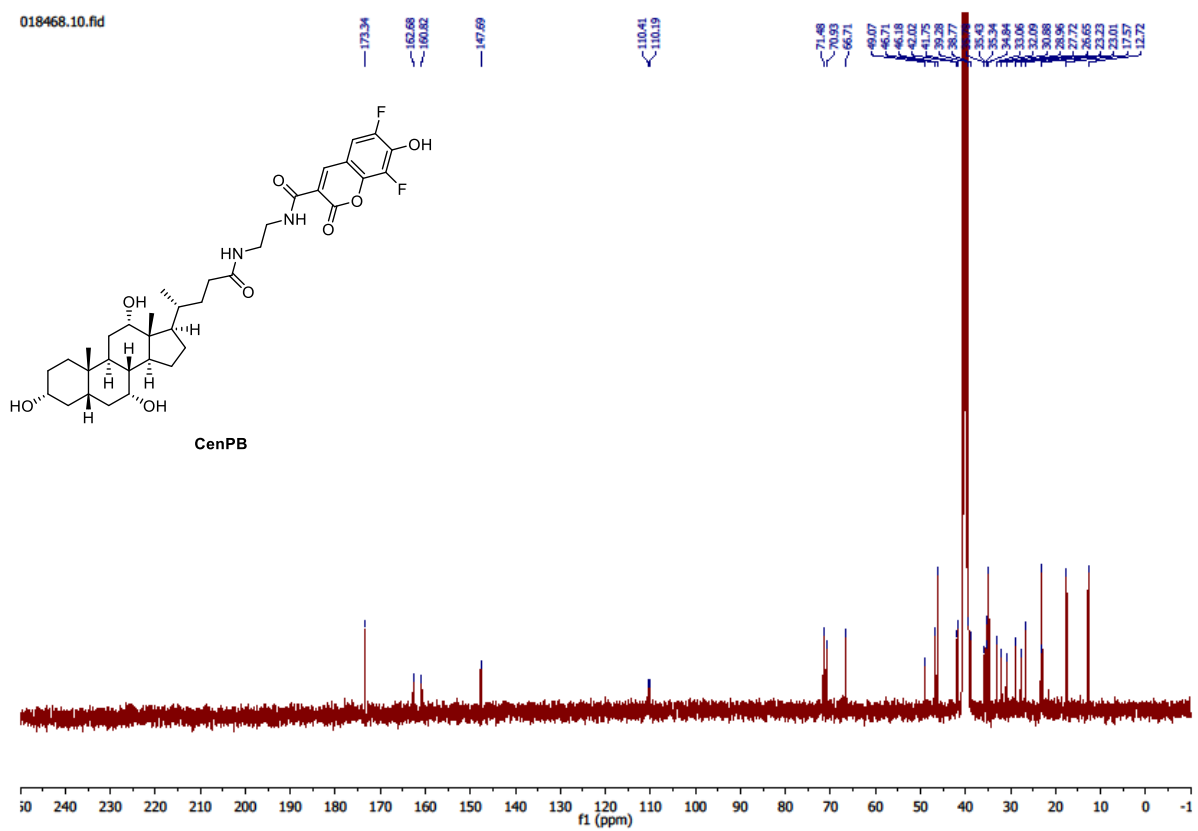
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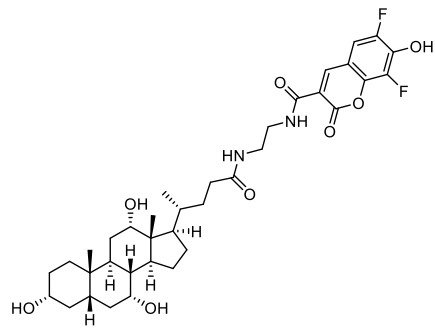
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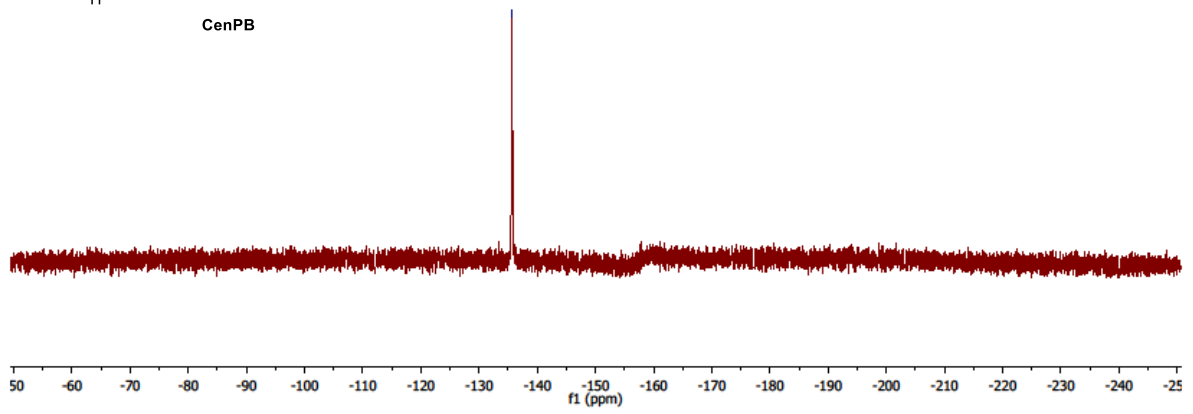
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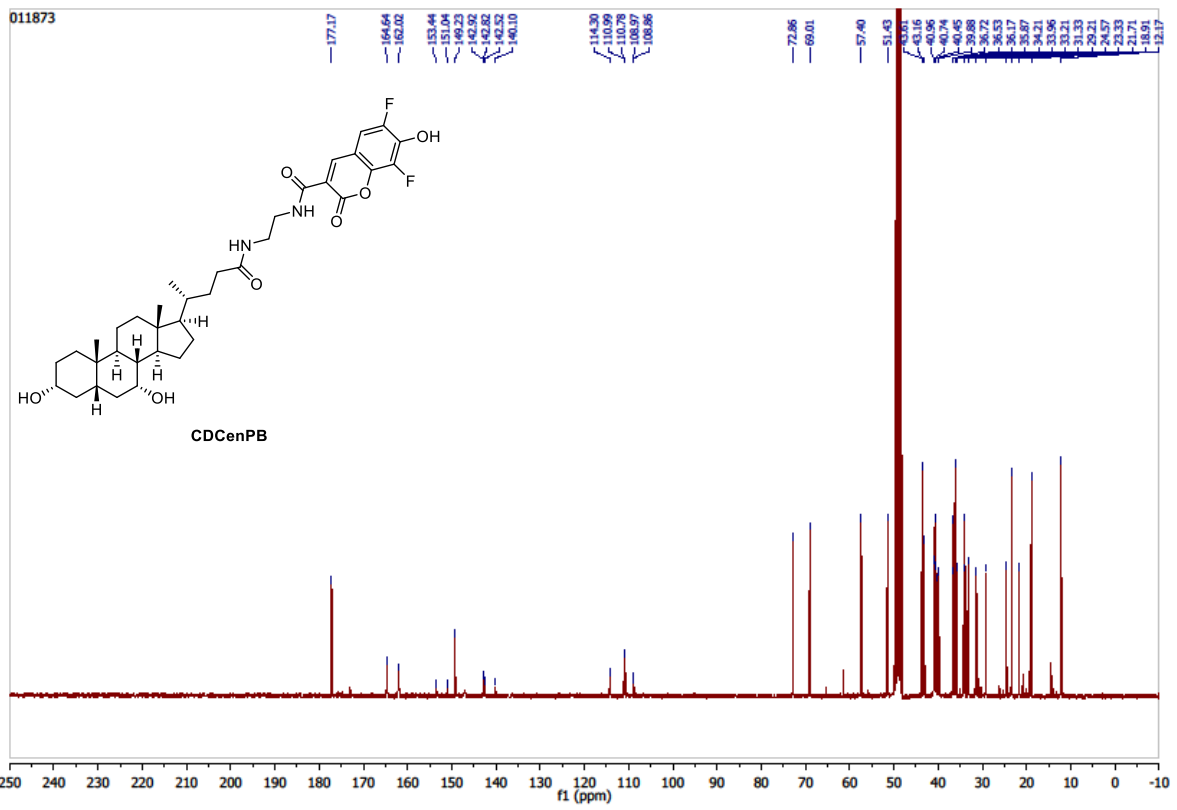
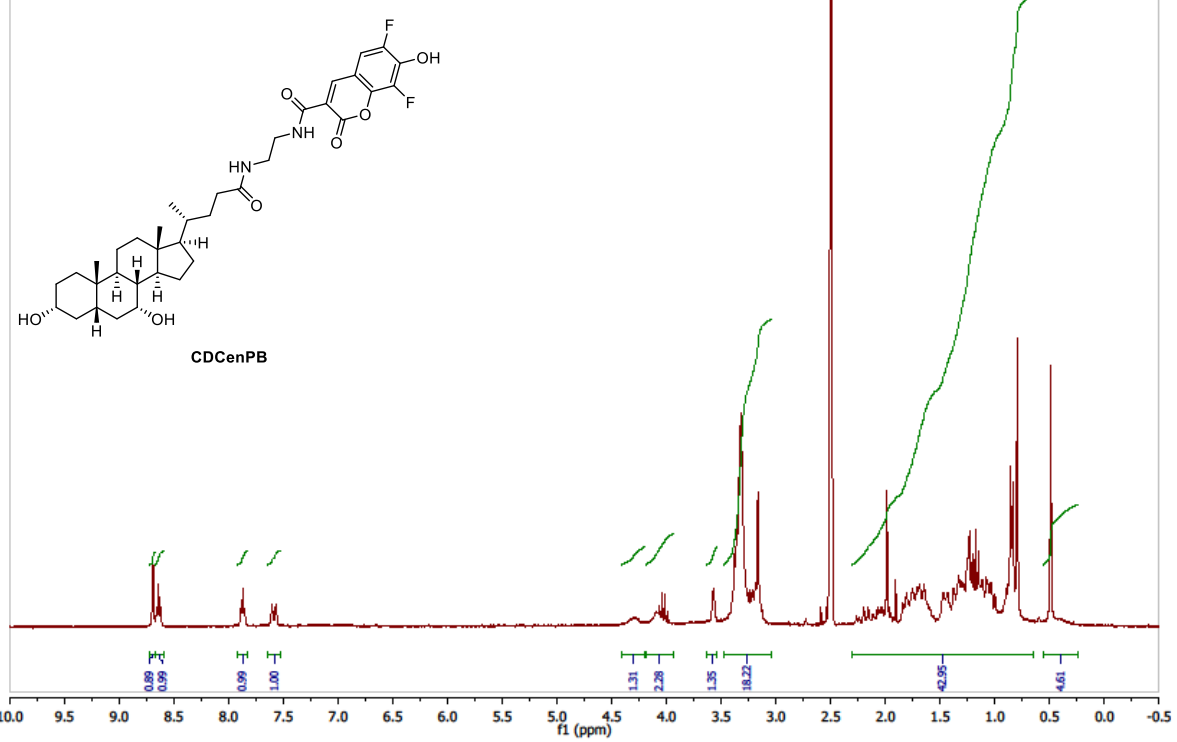
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Flourine_ns128 DMSO /opt service 55



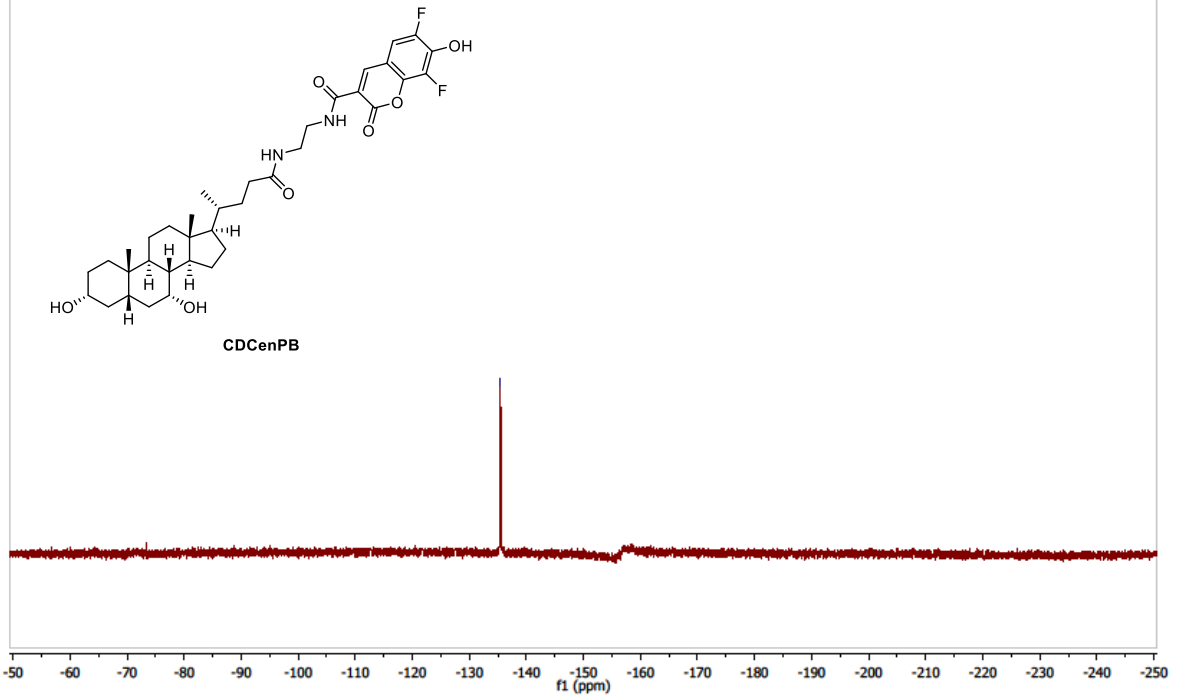
CenPB



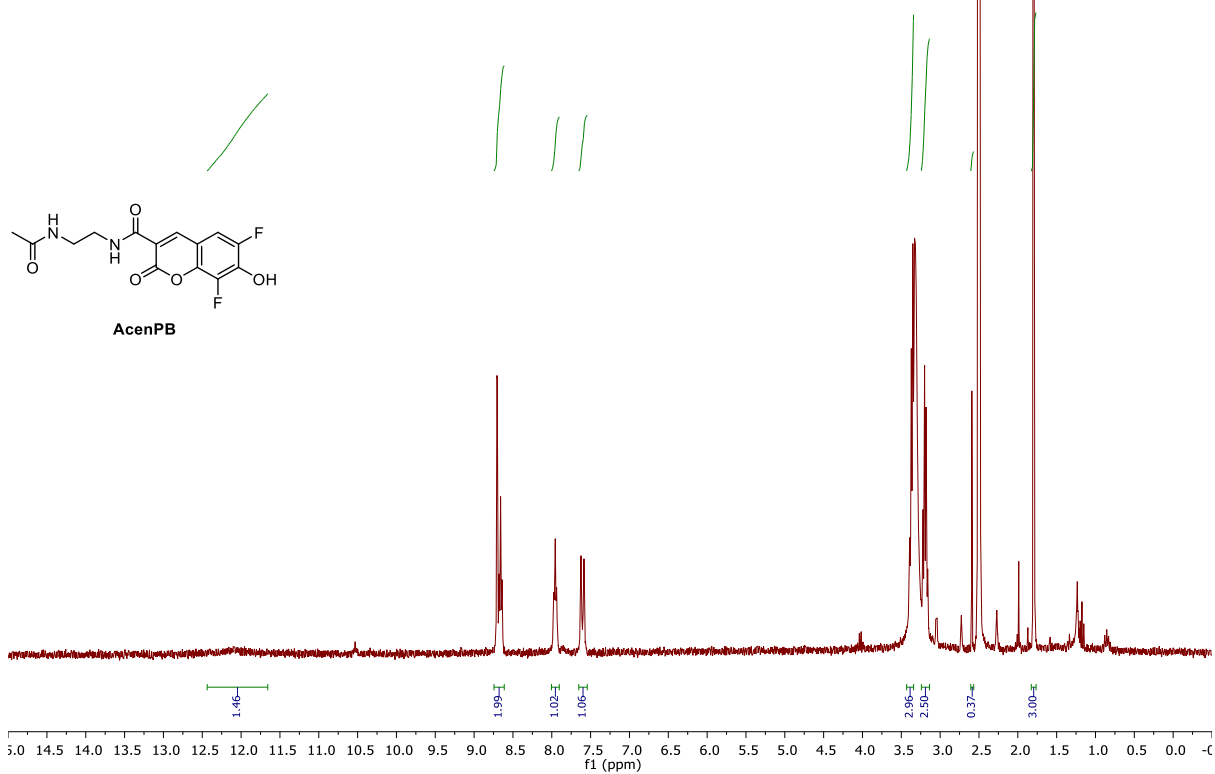
GA_160872
MIL05.029.1
Proton_ns32 DMSO /opt service 32



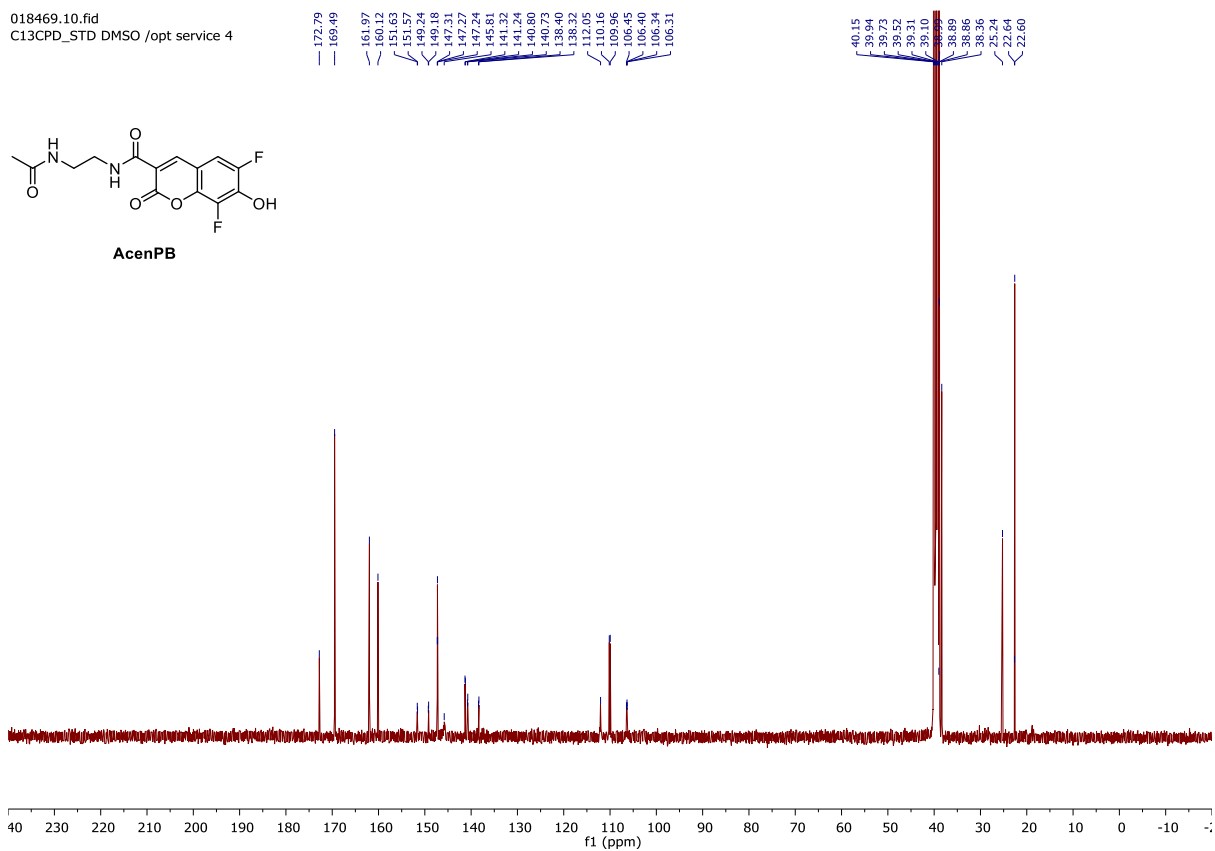
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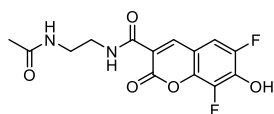
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MIL05.038.1
Proton_ns32 DMSO /opt service 18



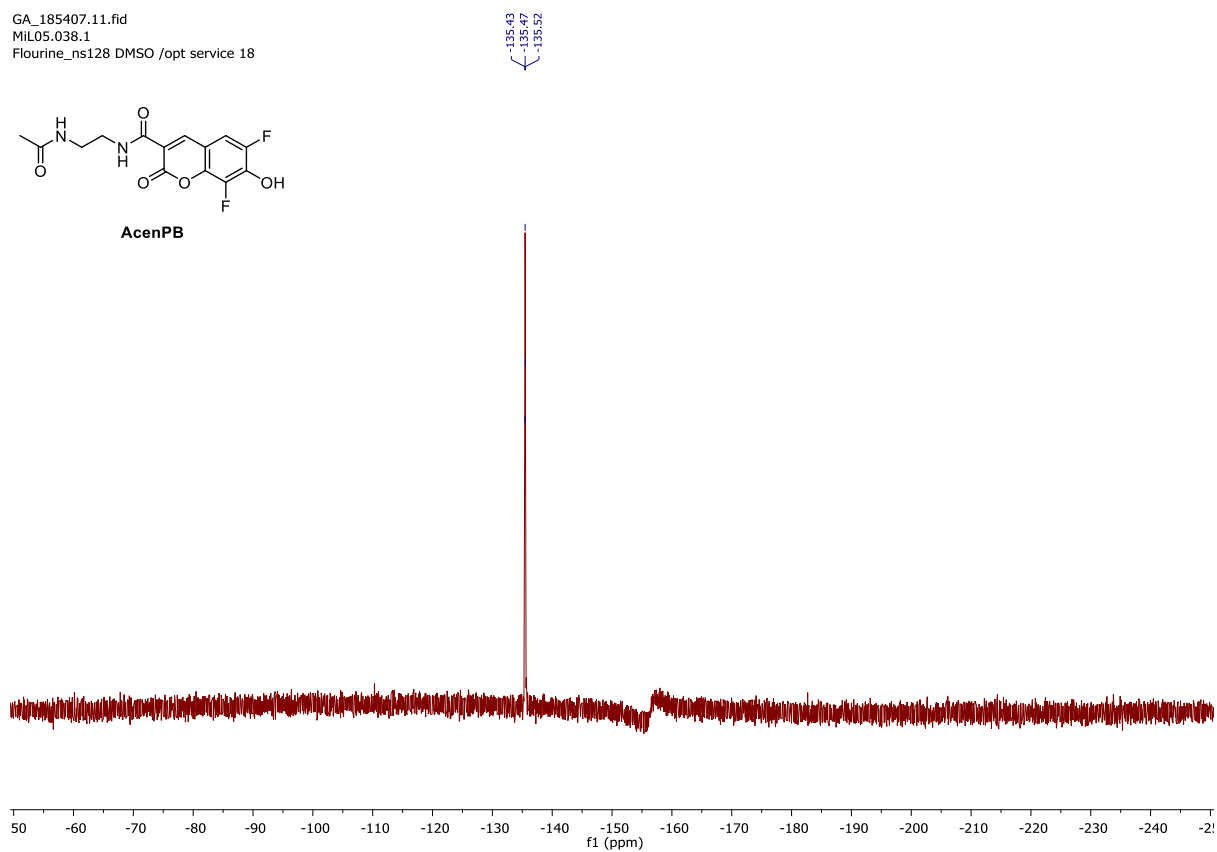
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C13CPD_STD DMSO /opt service 4



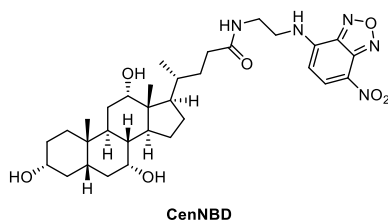
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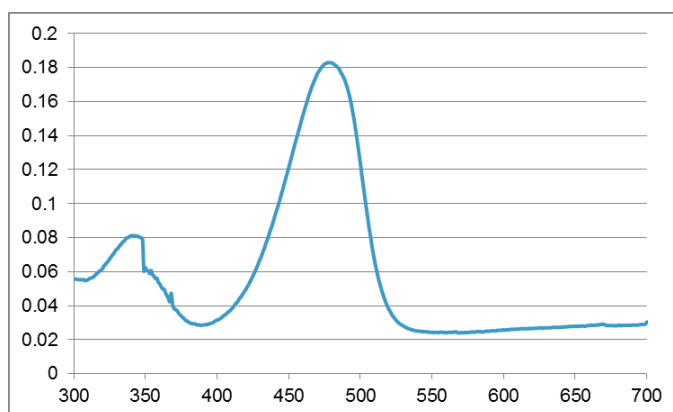
AcenPB



2. UV-Vis absorption and fluorescence emission spectra of bile salt tracers



A



B

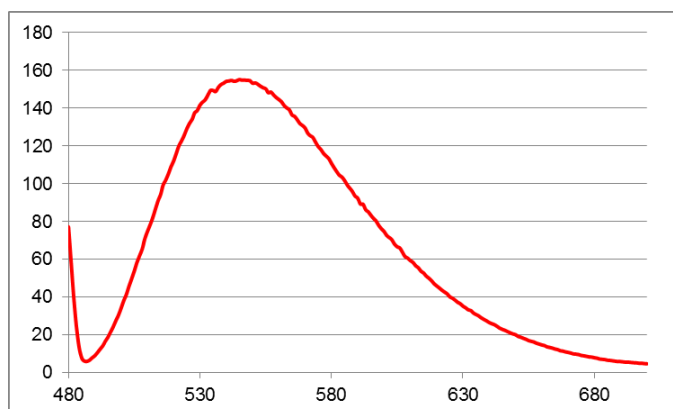
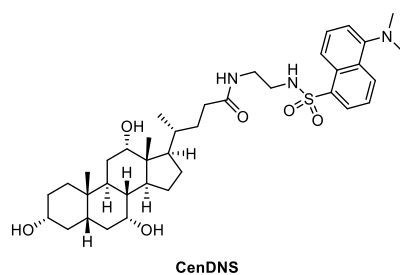
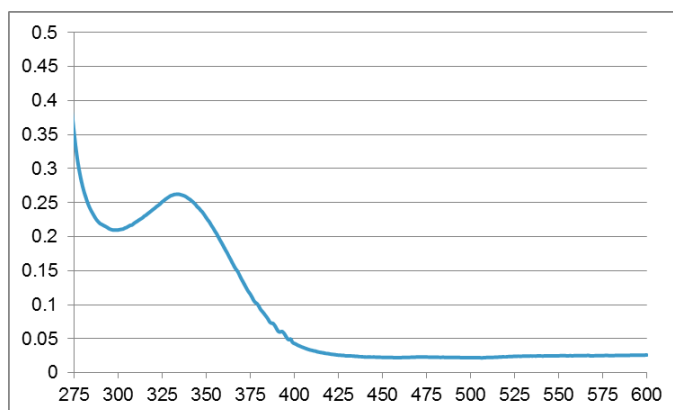


Figure S1. (A) Absorption spectrum of **CenNBD** (PBS buffer + 1% DMSO), λ_{\max} abs = 478 nm. (B) Fluorescence emission spectrum of **CenNBD** (PBS buffer + 1% DMSO, λ_{ex} = 478 nm), λ_{\max} em = 545 nm.



A



B

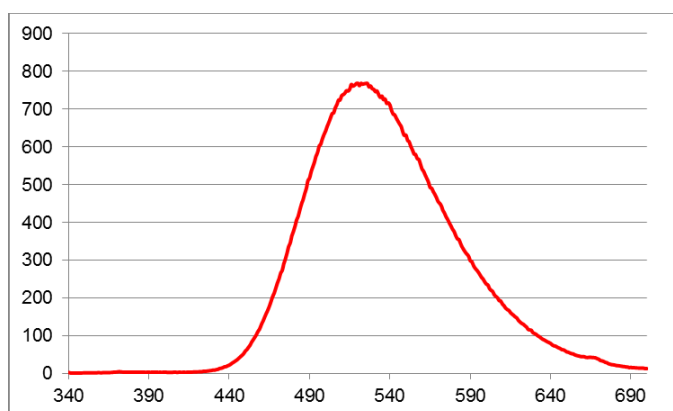
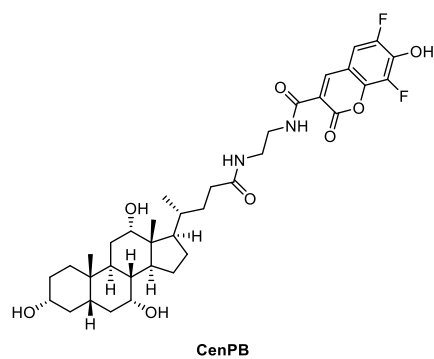
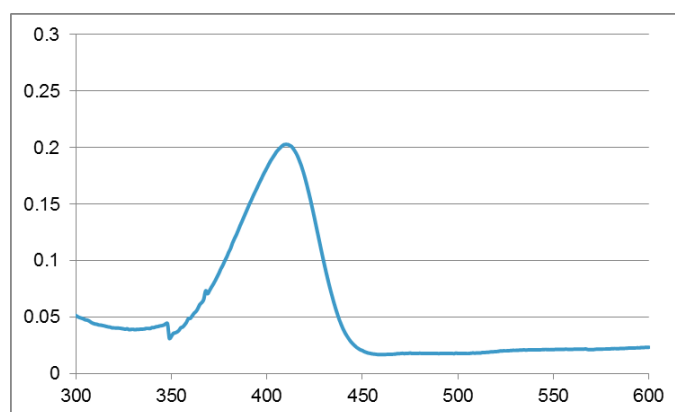


Figure S2. (A) Absorption spectrum of **CenDNS** (MeOH + 1% DMSO), $\lambda_{\text{max abs}} = 334$ nm. (B) Fluorescence emission spectrum of **CenDNS** (MeOH + 1% DMSO, $\lambda_{\text{ex}} = 334$ nm), $\lambda_{\text{max em}} = 520$ nm.



A



B

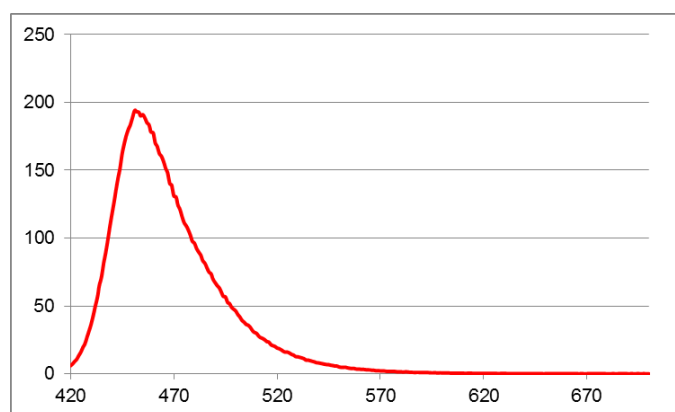


Figure S3. (A) Absorption spectrum of **CenPB** (PBS buffer + 1% DMSO), $\lambda_{\text{max}} \text{ abs} = 410 \text{ nm}$. (B) Fluorescence emission spectrum of **CenPB** (PBS Buffer + 1% DMSO, $\lambda_{\text{ex}} = 410 \text{ nm}$), $\lambda_{\text{max}} \text{ em} = 451 \text{ nm}$.