

<b>Name:</b>	<b>Memantine-D3 Hydrochloride</b>
<b>Lot#:</b>	GR-13-157
<b>Test Date:</b>	04/23/2024 (re-test date: 04/23/2029)
<b>CAS No.:</b>	41100-52-1 (unlabeled)
<b>MF:</b>	C <sub>12</sub> H <sub>19</sub> D <sub>3</sub> ClN
<b>MW:</b>	218.78
<b>Appearance:</b>	White Solid
<b>Purity:</b>	>95% by NMR; 99% atom D
<b><sup>1</sup>H-NMR:</b>	Conforms
<b>MS-ESI (+)</b>	Conforms (shows peak at m/z = 183.19 [M <sub>free base</sub> +H] <sup>+</sup> )
<b>Storage</b>	Store at -18°C in a dry place away from direct sunlight

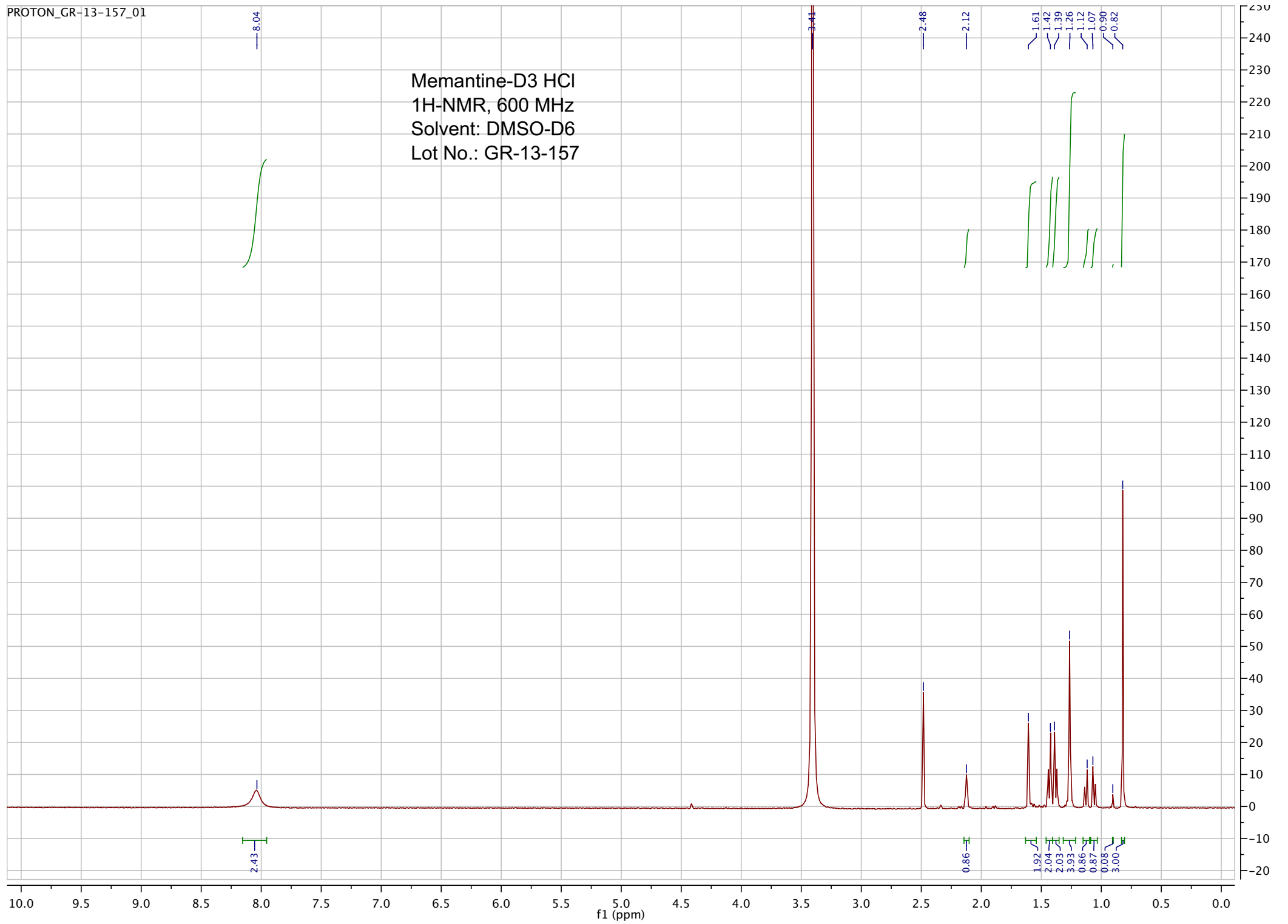
Approved by:

Date: 04/23/2024



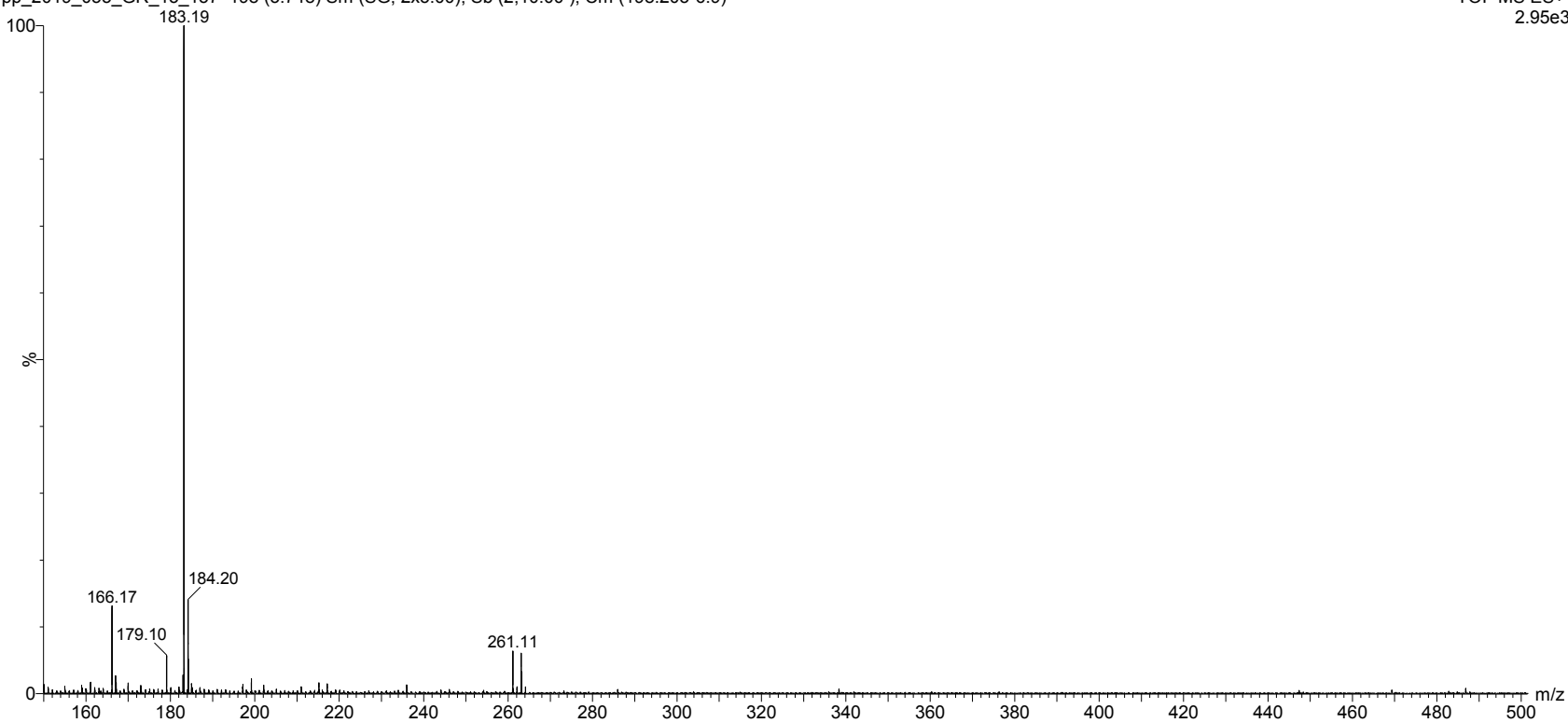
Viorica Rusu, QC/QA Manager

Memantine-D3 HCl  
1H-NMR, 600 MHz  
Solvent: DMSO-D6  
Lot No.: GR-13-157



pp\_2019\_055\_GR\_13\_157 198 (3.748) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (198:203-6:9)

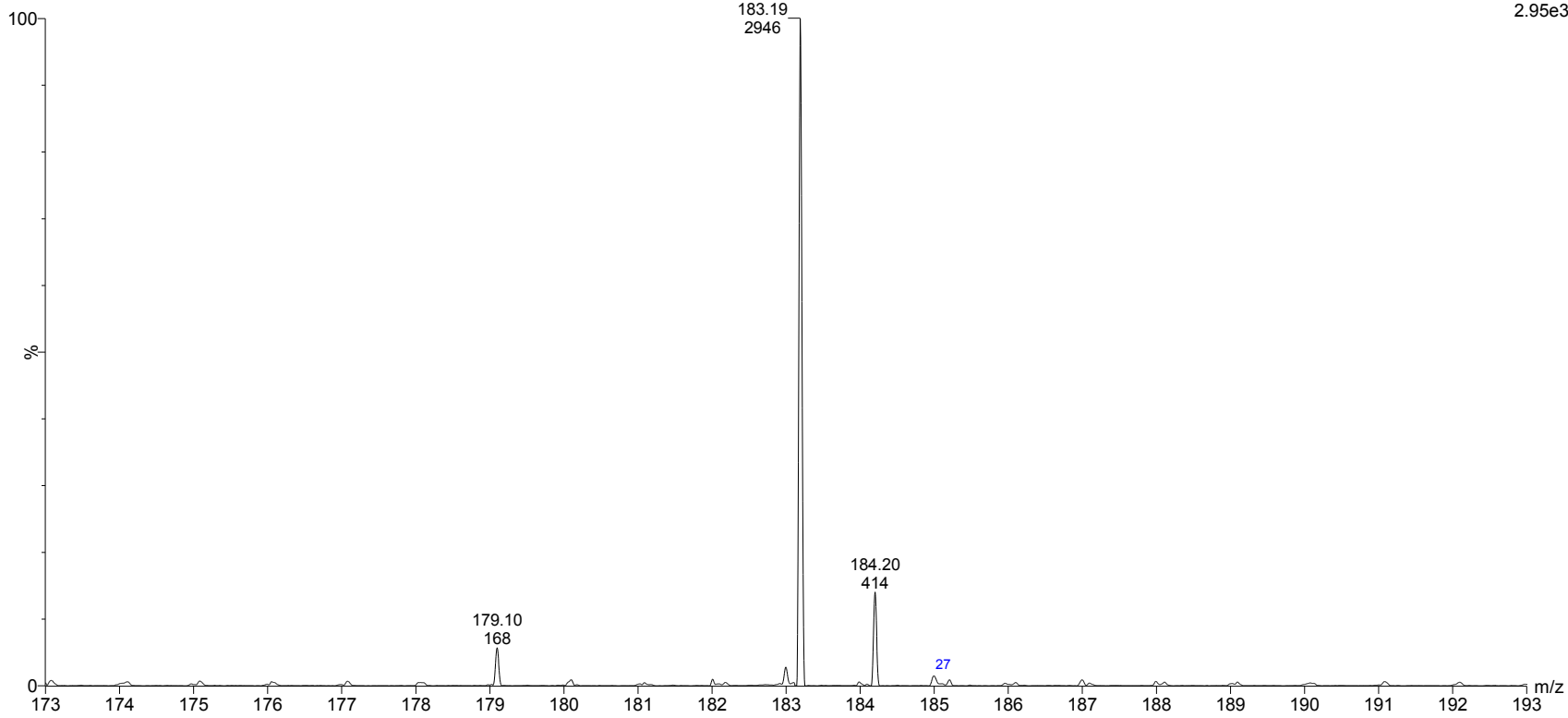
TOF MS ES+  
2.95e3



ESI-MS spectrum for sample GR-13-157. Shows monoisotopic  $[M+H]^+$  mass.

pp\_2019\_055\_GR\_13\_157 198 (3.748) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (198:203-6:9)

TOF MS ES+  
2.95e3



Expansion of above showing intensity labels.