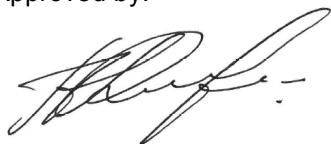


**Name:** 3β-Ursodeoxycholic Acid-D4  
**Lot#:** GR-10-257  
**Test Date:** 11/21/2017 (re-test date: 11/21/2022)  
**CAS No.:** 78919-26-3 (unlabeled)  
**MF:** C<sub>24</sub>H<sub>36</sub>D<sub>4</sub>O<sub>4</sub>  
**MW:** 396.6  
**Appearance:** White solid  
**Purity:** >95% by NMR; >98% atom D  
**<sup>1</sup>H-NMR:** Conforms  
**MS-ESI (-)** Conforms (shows peak at m/z = 395.30 [M-H]<sup>-</sup>)

Approved by:

Date: 11/21/2017

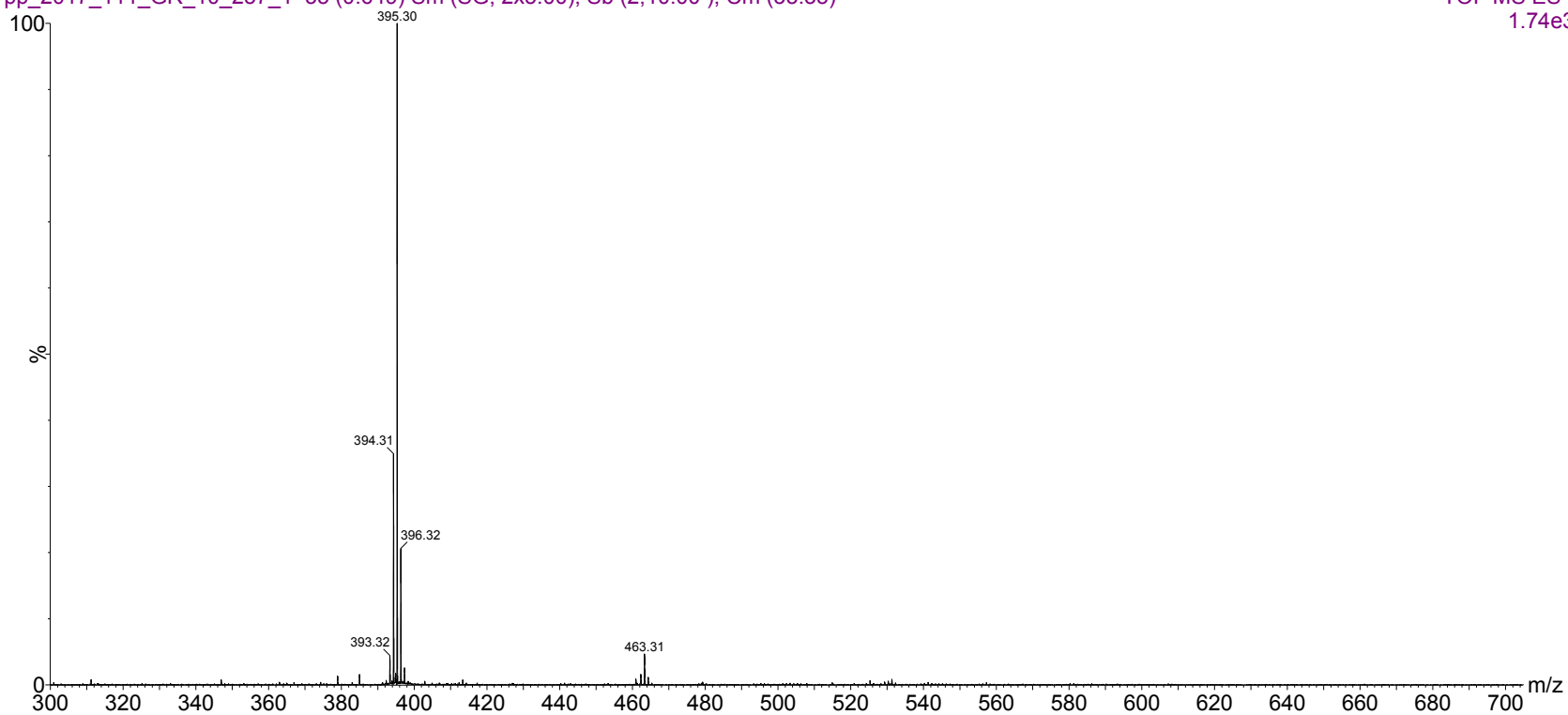


Viorica Rusu, QC/QA Manager

21-Nov-2017, 14:10:44

TOF MS ES-  
1.74e3

pp\_2017\_111\_GR\_10\_257\_1 35 (0.649) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (33:35)

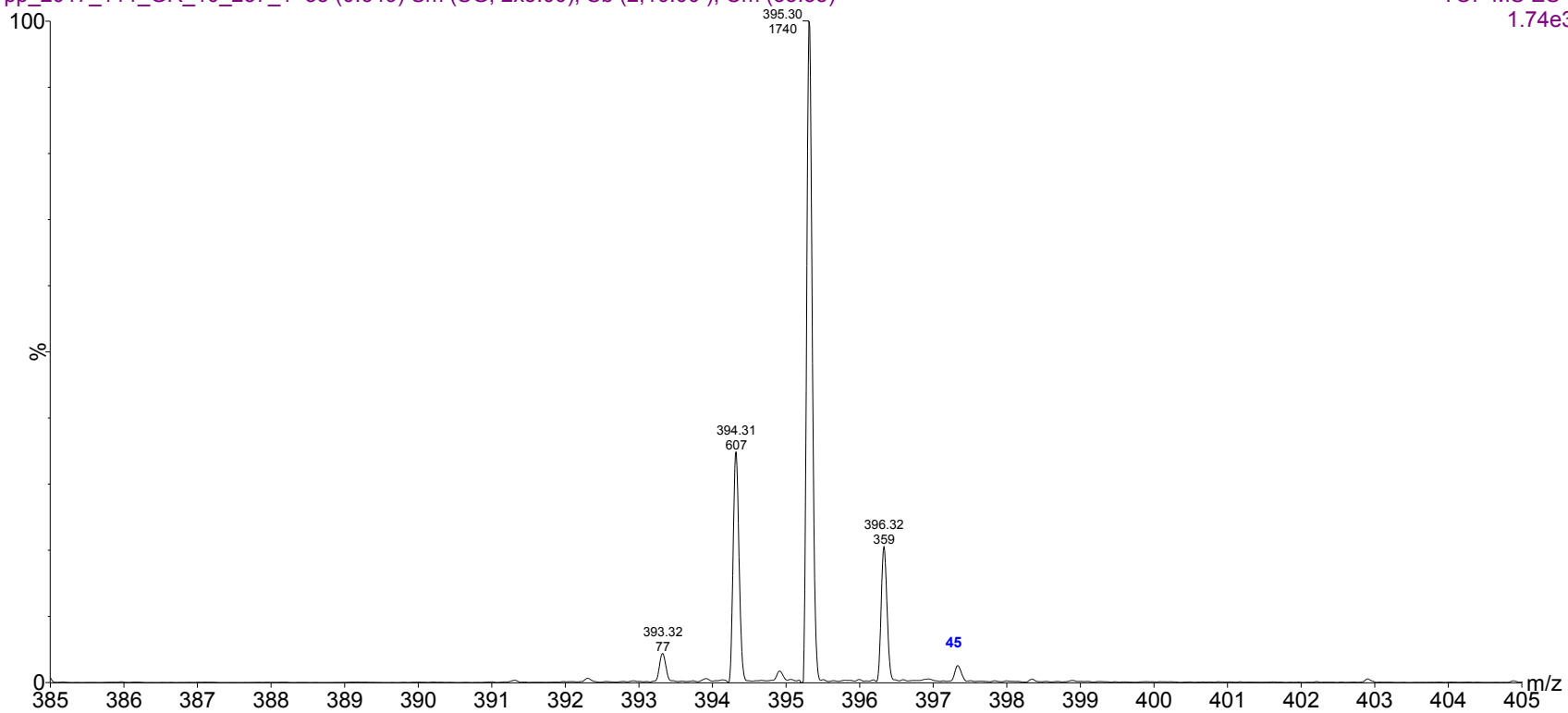


ESI-MS spectrum for sample GR-10-257. Shows monoisotopic [M-H]<sup>-</sup> mass.

21-Nov-2017, 14:10:44

TOF MS ES-  
1.74e3

pp\_2017\_111\_GR\_10\_257\_1 35 (0.649) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (33:35)



Expansion of above.

3beta-Ursodeoxycholic Acid-D4  
1H-NMR, 600 MHz  
Solvent: DMSO-D6  
Lot No.: GR-10-257

