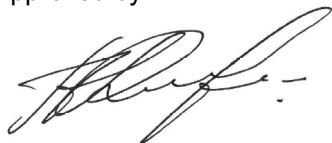


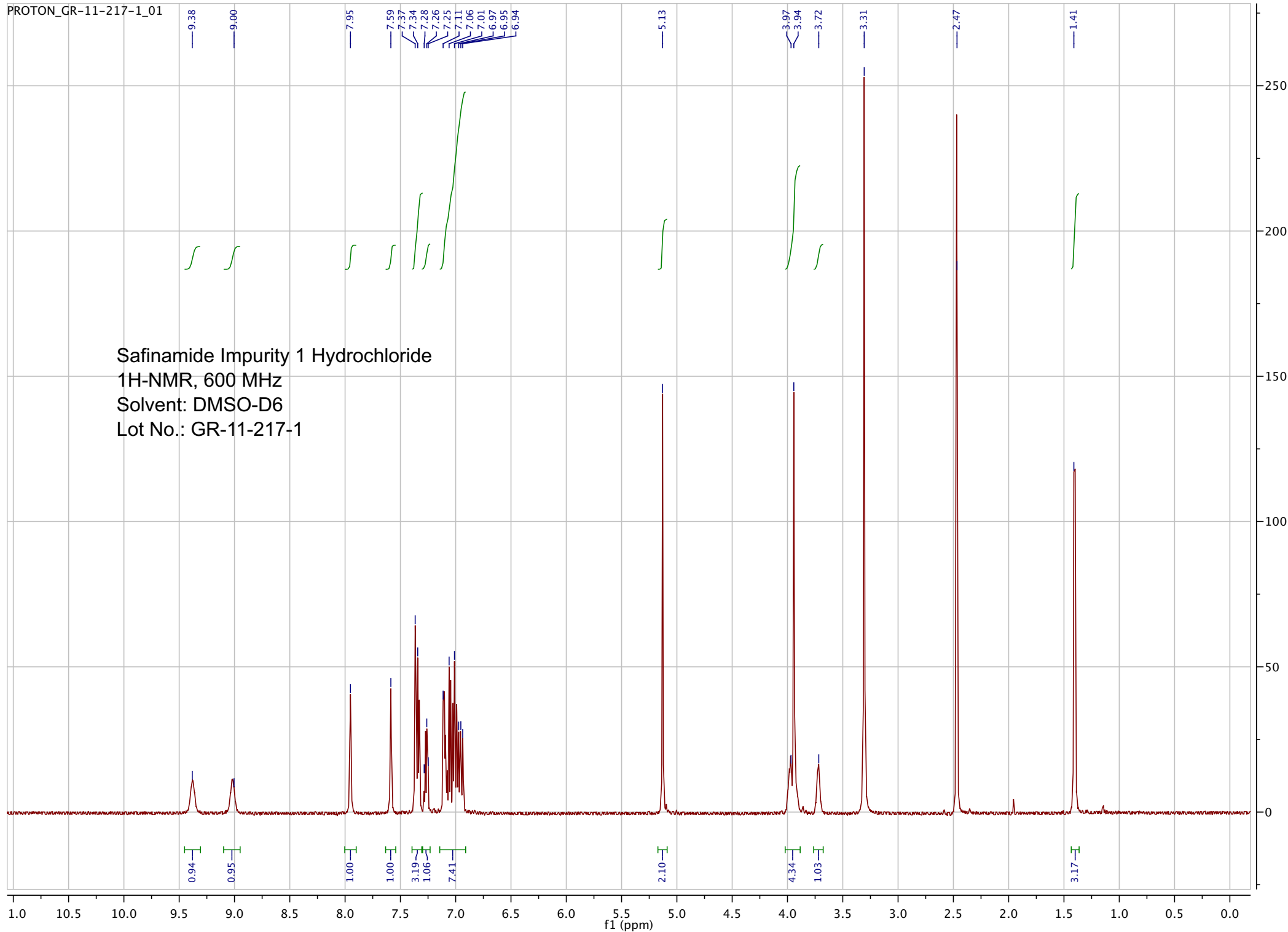
| | |
|---------------------------|--|
| Name: | Safinamide Impurity 1 Hydrochloride |
| Lot#: | GR-11-217-1 |
| Test Date: | 02/09/2024 (re-test date: 02/09/2029) |
| CAS No.: | 1000370-27-3 (free base) |
| MF: | C ₂₄ H ₂₅ ClF ₂ N ₂ O ₂ |
| MW: | 446.92 |
| Appearance: | White solid |
| Purity: | 95.5% by HPLC |
| ¹H-NMR: | Conforms (shows a trace of EtOAc) |
| MS-ESI (+) | Conforms (shows peak at m/z = 411.17 [M+H ⁺] ⁺) |
| Storage | Store at 0-5°C in a dry place away from direct sunlight |

Approved by:

Date: 02/09/2024

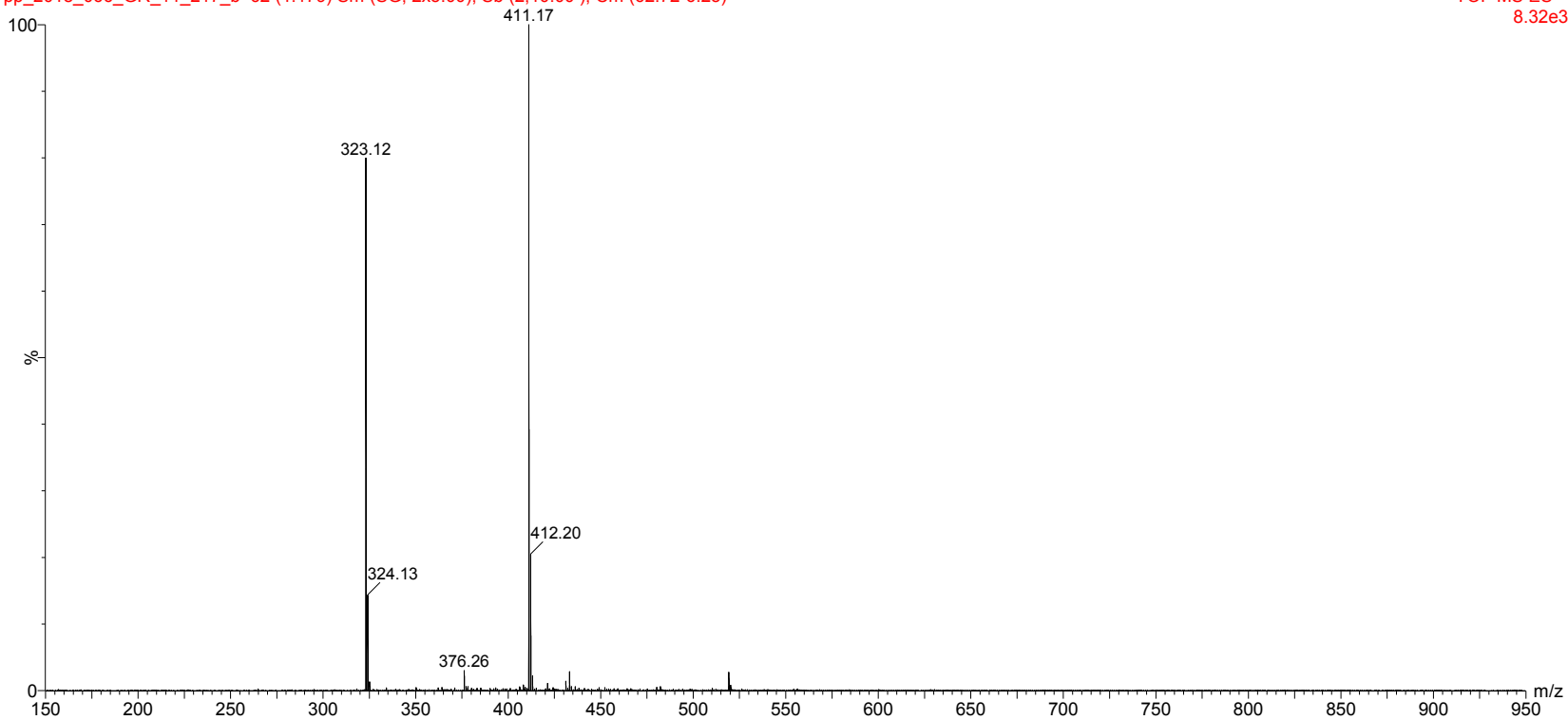


Viorica Rusu, QC/QA Manager



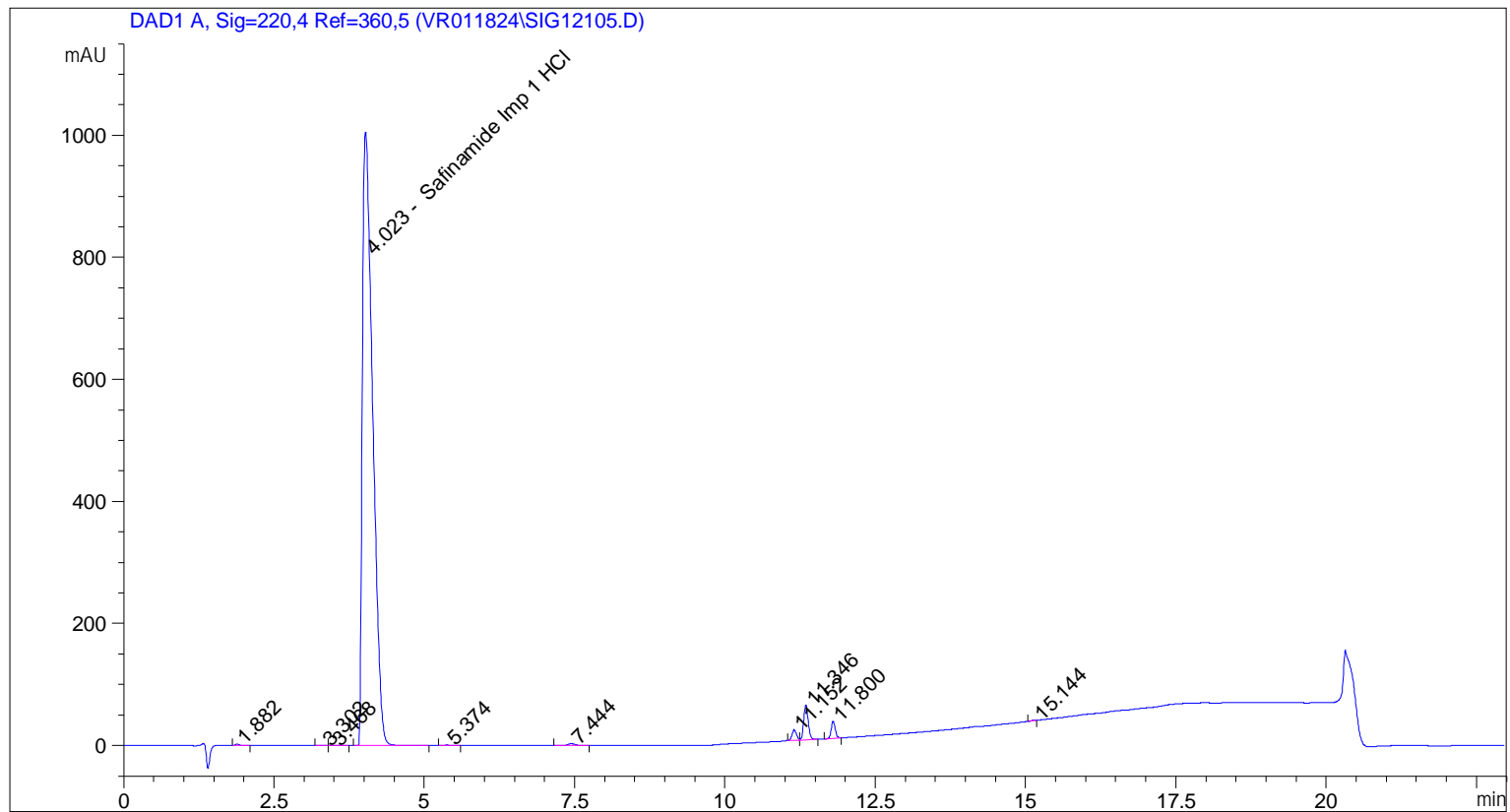
pp_2018_066_GR_11_217_b 62 (1.179) Sm (SG, 2x5.00); Sb (2,10.00); Cm (62:72-6:25)

TOF MS ES+
8.32e3



ESI-MS spectrum for sample GR-11-217. Shows monoisotopic $[M+H]^+$ mass. Used as gentle source conditions as possible.

=====
Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 6
Injection Date : 2/9/2024 8:34:22 AM Inj Volume : 10.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR020924_217.M
Last changed : 2/9/2024 8:33:08 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR020924_217_PM.M
Last changed : 2/9/2024 9:38:03 AM by vrusu



=====
Area Percent Report
=====

Sorted By : Signal
Calib. Data Modified : 2/9/2024 9:37:26 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=220,4 Ref=360,5

| Peak # | RetTime [min] | Type | Width [min] | Area [mAU*s] | Area % | Name |
|--------|---------------|------|-------------|--------------|---------|----------------------|
| 1 | 4.023 | BB | 0.1851 | 1.19959e4 | 95.4452 | Safinamide Imp 1 HCl |

Totals : 1.19959e4 95.4452

Uncalibrated Peaks:

Sample Name: GR-11-217-1

| Peak # | RetTime [min] | Type | Width [min] | Area [mAU*s] | Area % | Name |
|--------|---------------|------|-------------|--------------|--------|------|
| 1 | 1.882 | BB | 0.0694 | 11.06793 | 0.0881 | ? |
| 2 | 3.302 | BV | 0.0818 | 3.14150 | 0.0250 | ? |
| 3 | 3.468 | VB | 0.1010 | 2.92883 | 0.0233 | ? |
| 4 | 5.374 | BB | 0.1189 | 7.21798 | 0.0574 | ? |
| 5 | 7.444 | BB | 0.1384 | 28.30620 | 0.2252 | ? |
| 6 | 11.152 | BV | 0.0827 | 89.68794 | 0.7136 | ? |
| 7 | 11.346 | VB | 0.0809 | 296.17740 | 2.3565 | ? |
| 8 | 11.800 | BB | 0.0716 | 129.54884 | 1.0308 | ? |
| 9 | 15.144 | BB | 0.0712 | 4.38729 | 0.0349 | ? |

Uncalib. totals : 572.46391 4.5548

=====
*** End of Report ***