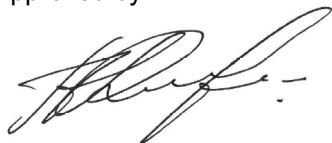


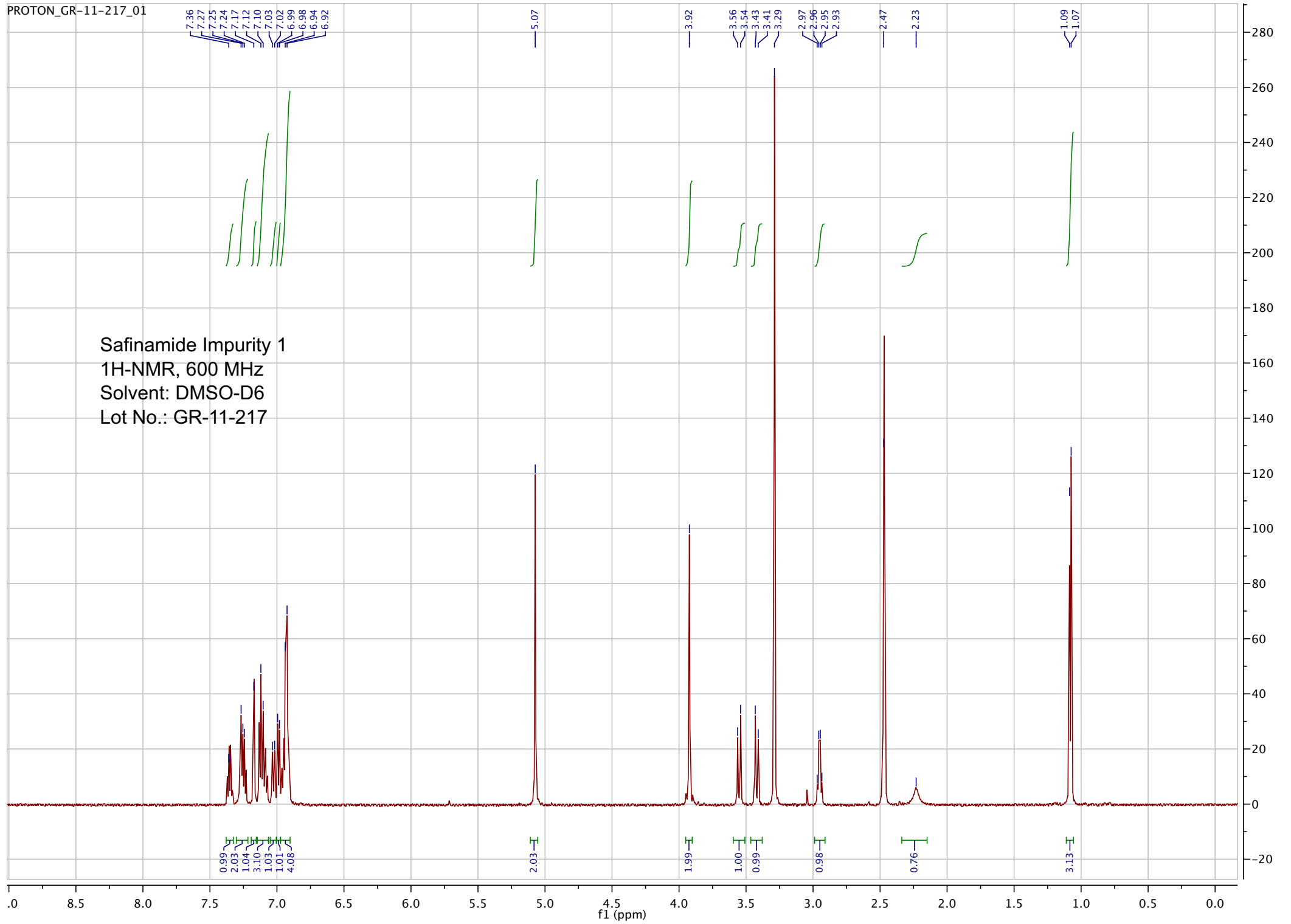
Name:	Safinamide Impurity 1
Lot#:	GR-11-217
Test Date:	02/23/2023 (re-test date: 02/23/2028)
CAS No.:	1000370-27-3
MF:	C ₂₄ H ₂₄ F ₂ N ₂ O ₂
MW:	410.46
Appearance:	White solid
Purity:	96.8% by HPLC (average of two sample preparations)
¹H-NMR:	Conforms (shows a trace of MeOH)
MS-ESI (+)	Conforms (shows peak at m/z = 411.17 [M+H] ⁺)
Storage	Store at -18°C in a dry place away from direct sunlight

Approved by:

Date: 02/23/2023

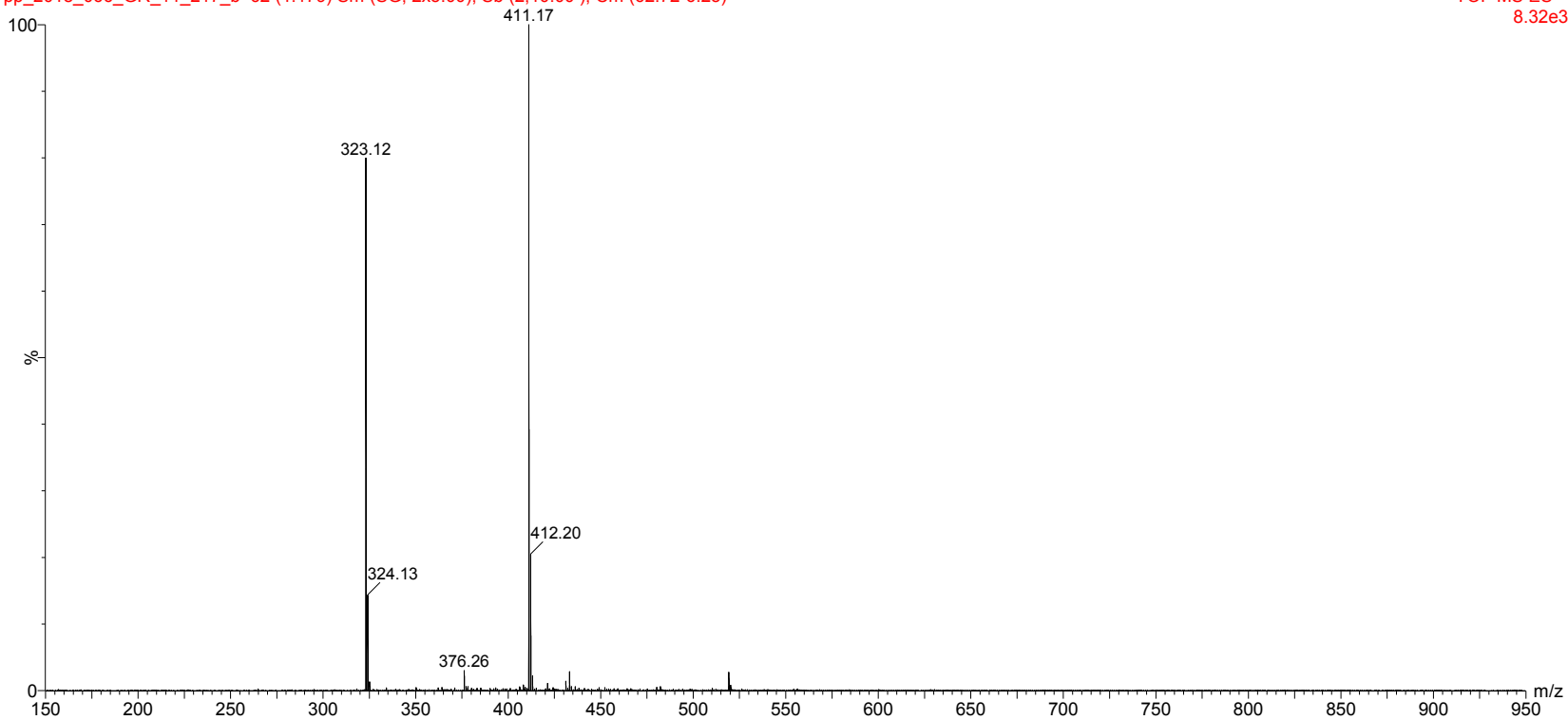


Viorica Rusu, QC/QA Manager



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

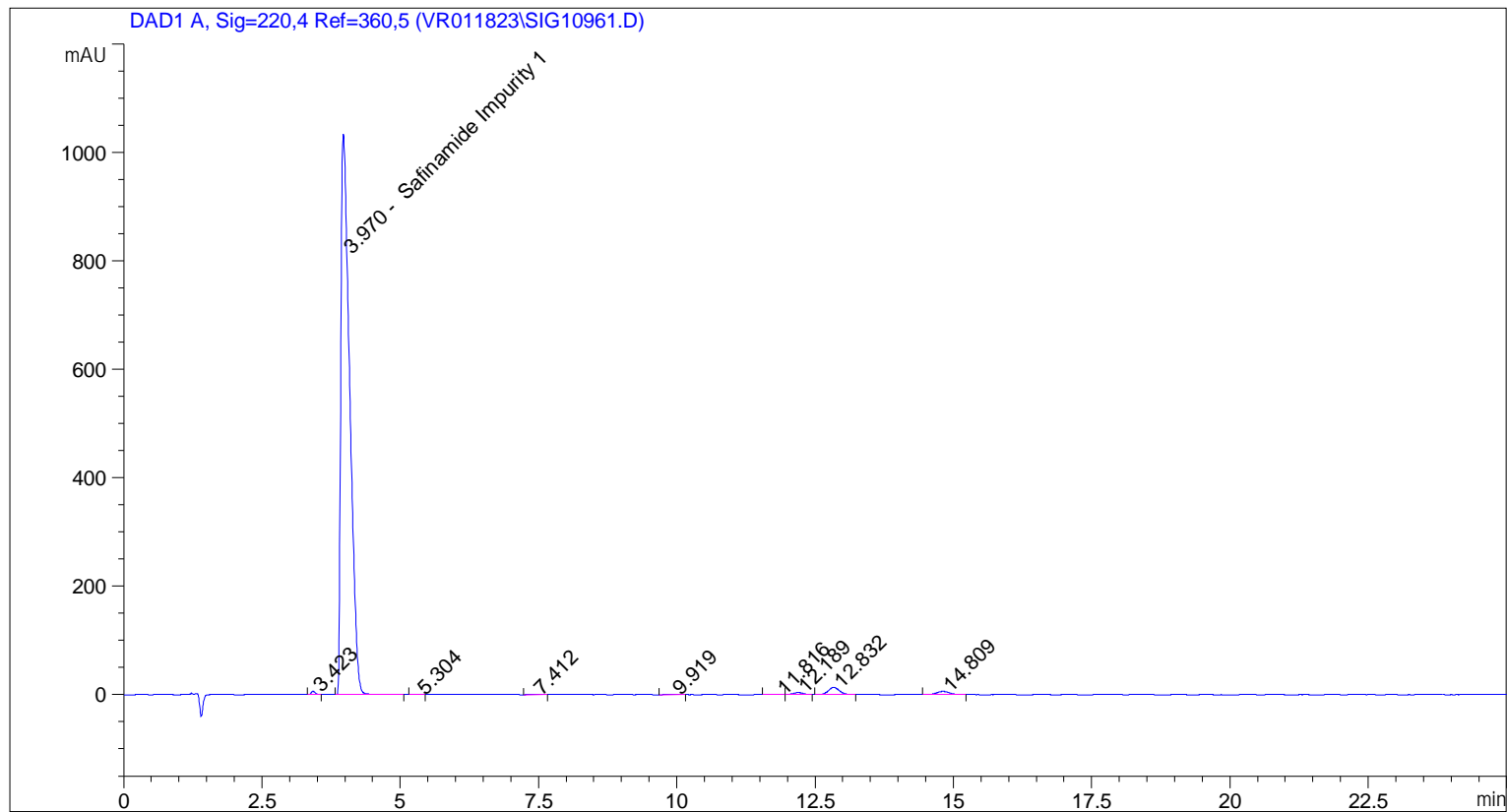
TOF MS ES+
8.32e3



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 75
Injection Date  : 2/23/2023 8:45:30 AM
                                           Inj Volume : 10.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR022323_217.M
Last changed    : 2/23/2023 8:44:35 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR022323_217PM.M
Last changed    : 2/23/2023 10:29:40 AM by vrusu
  
```



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

```

Sorted By           :      Signal
Calib. Data Modified :      2/23/2023 10:28:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
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	3.423	BB	0.0788	31.50234	0.2642	?
2	3.970	BB	0.1703	1.15442e4	96.8107	Safinamide Impurity 1
3	5.304	BB	0.1176	4.66633	0.0391	?
4	7.412	BB	0.1553	4.62616	0.0388	?
5	9.919	BB	0.1650	3.88432	0.0326	?
6	11.816	BV	0.1680	10.27602	0.0862	?
7	12.189	VB	0.2009	47.44178	0.3978	?
8	12.832	BB	0.2173	184.19885	1.5447	?

Sample Name: GR-11-217

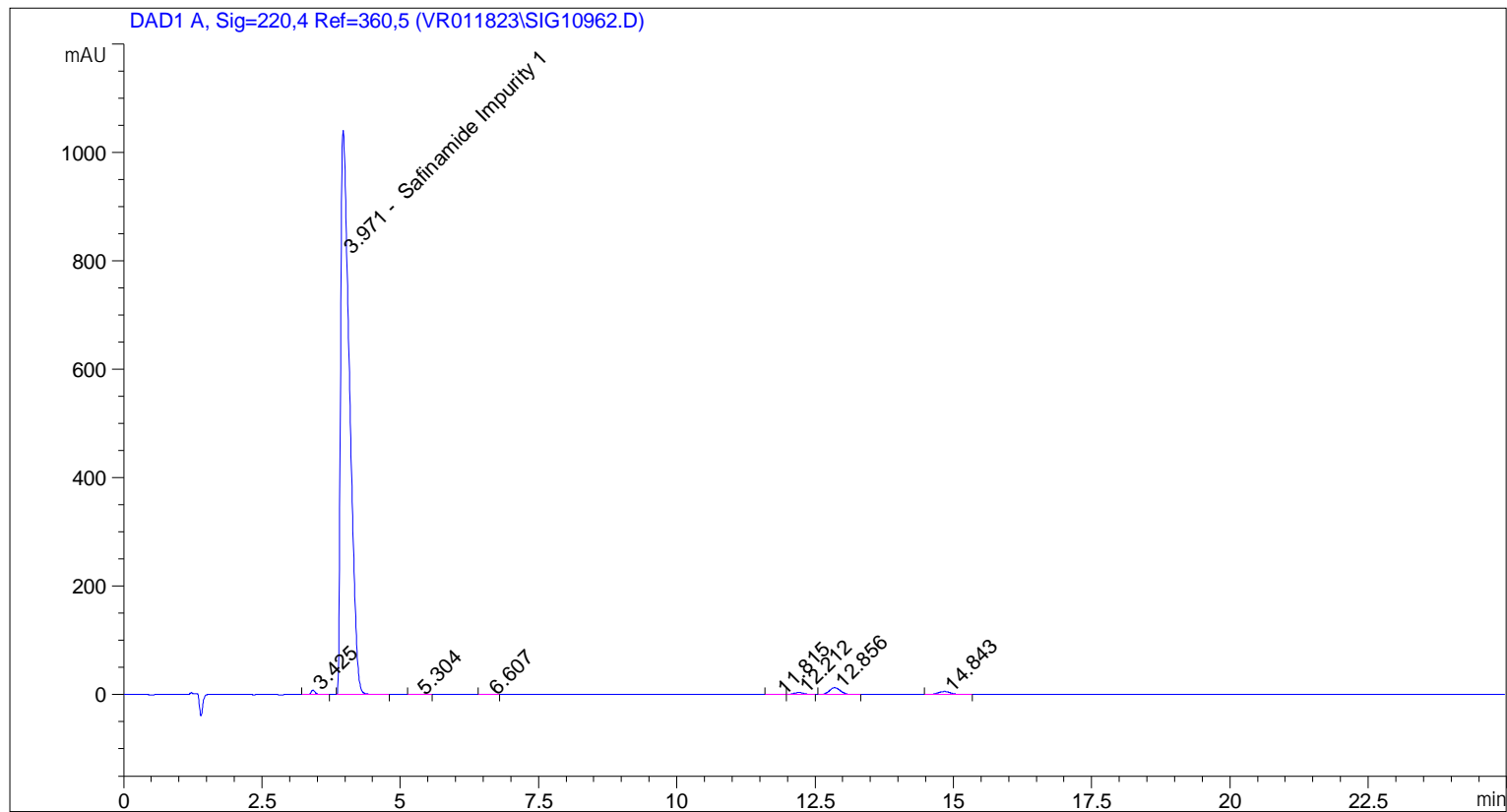
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	14.809	BB	0.2507	93.72005	0.7859	?

Totals : 1.19246e4

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

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 76
Injection Date  : 2/23/2023 9:12:35 AM
                                           Inj Volume : 10.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR022323_217.M
Last changed   : 2/23/2023 9:11:40 AM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR022323_217PM.M
Last changed   : 2/23/2023 10:29:40 AM by vrusu
  
```



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

```

Sorted By      : Signal
Calib. Data Modified : 2/23/2023 10:28:58 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
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	3.425	BB	0.0832	44.05727	0.3648	?
2	3.971	BB	0.1711	1.16973e4	96.8472	Safinamide Impurity 1
3	5.304	BB	0.1317	5.78774	0.0479	?
4	6.607	BB	0.1228	3.79810	0.0314	?
5	11.815	BV	0.1527	9.84482	0.0815	?
6	12.212	VB	0.2031	47.60202	0.3941	?
7	12.856	BB	0.2218	177.87686	1.4727	?
8	14.843	BB	0.2513	91.83003	0.7603	?

Sample Name: GR-11-217 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
Totals :				1.20781e4		

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