

Name:	Safinamide Impurity 1 Mesylate
Lot#:	GR-16-141
Test Date:	09/10/2021 (re-test date: 09/10/2026)
CAS No.:	1000370-27-3 (free base)
MF:	C ₂₅ H ₂₈ F ₂ N ₂ O ₅ S
MW:	506.56 (410.46 free base)
Appearance:	White solid
Purity:	99.7% by HPLC (average of two sample preparations)
¹H-NMR:	Conforms
MS-ESI (+)	Conforms (shows peaks at m/z = 411.19 [M _{free base} +H] ⁺ , 433.18 [M _{free base} +Na] ⁺)
Storage	Store at 0-5°C in a dry place away from direct sunlight

Approved by:

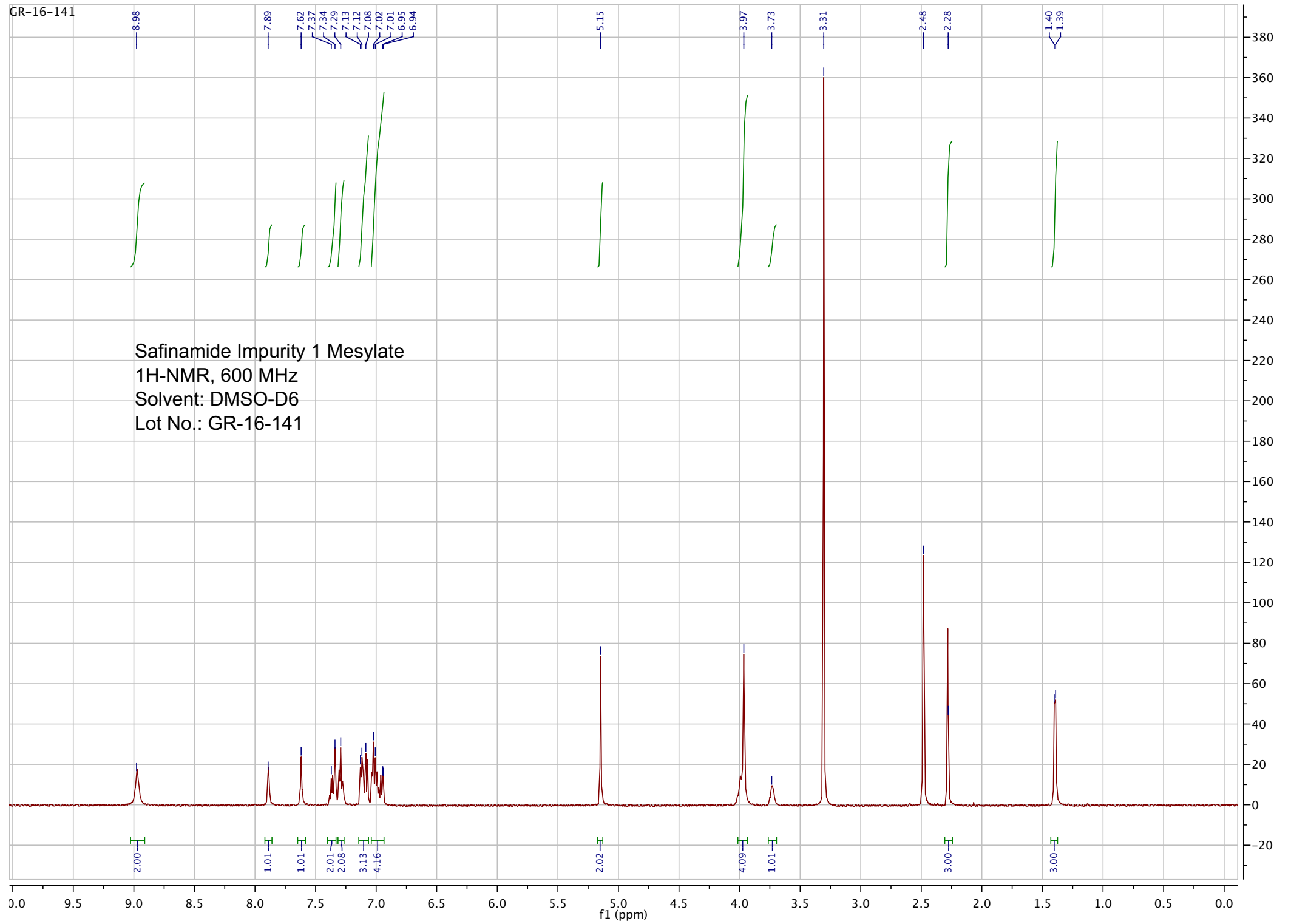
Date: 09/13/2021

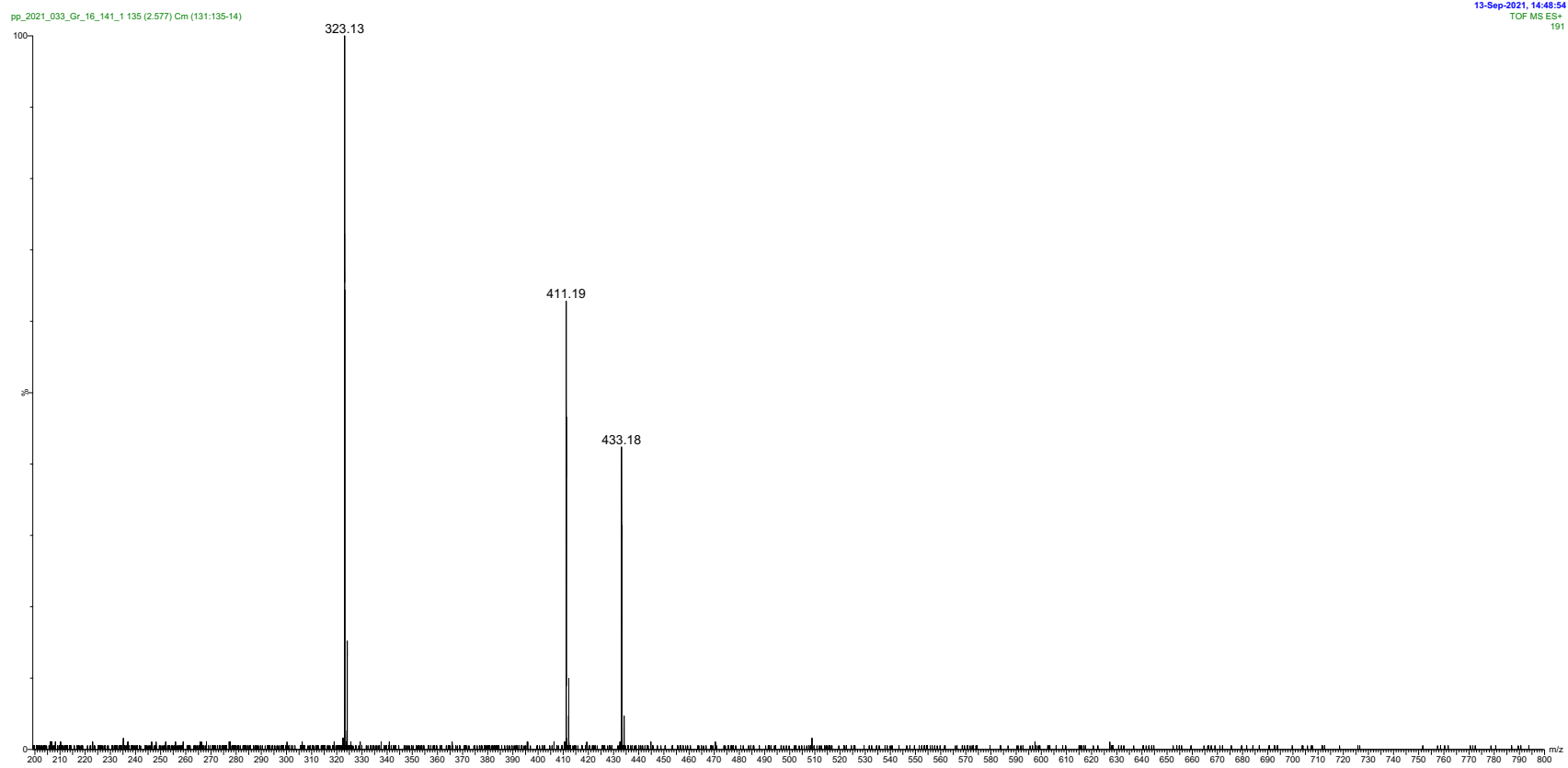


Viorica Rusu, QC/QA Manager

GR-16-141

Safinamide Impurity 1 Mesylate
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-16-141

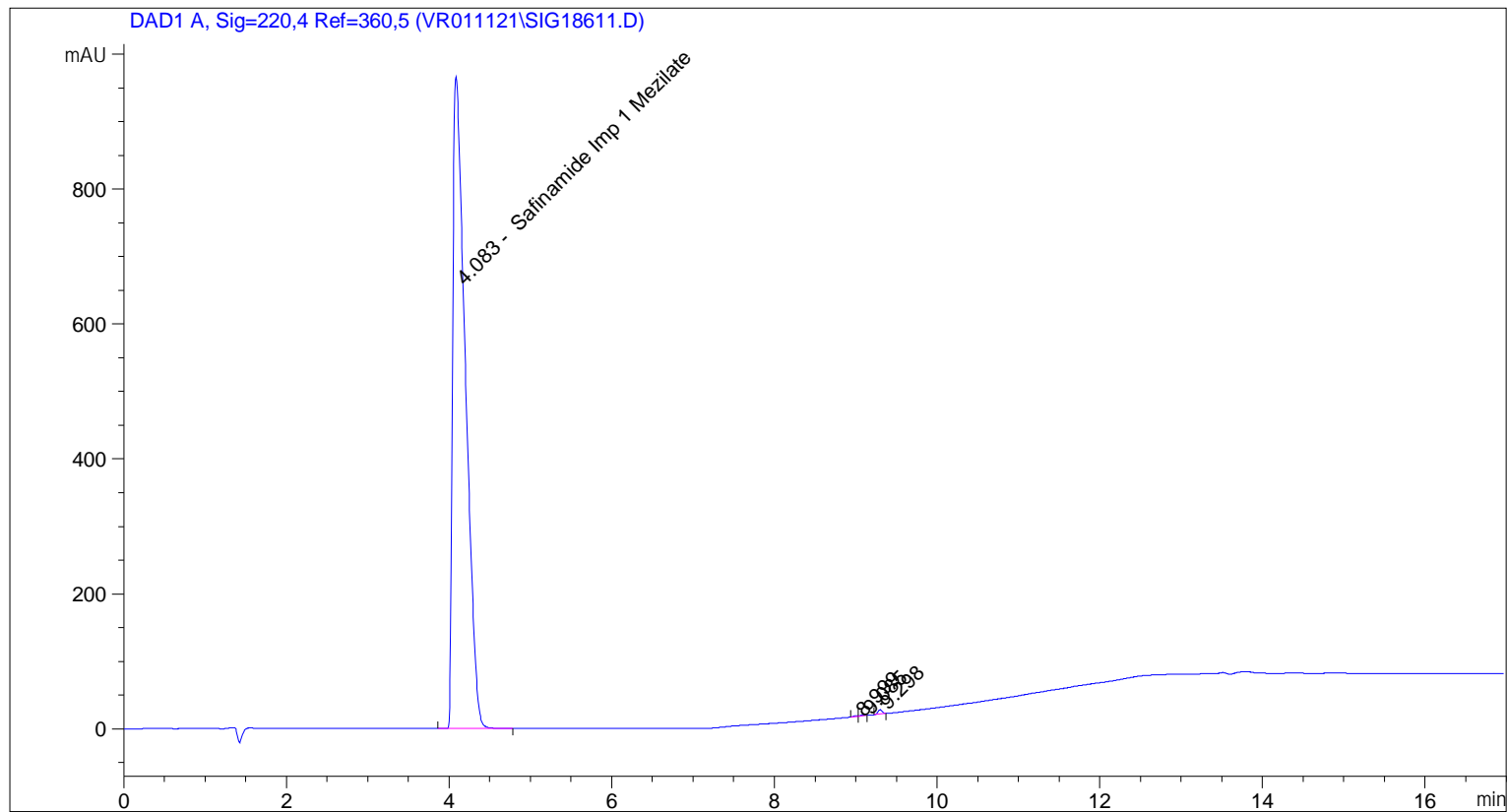




ESI-MS spectrum for sample GR-16-141. Shows monoisotopic $[M+H]^+$ mass.

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 8
Injection Date  : 9/10/2021 9:32:52 AM
                                           Inj Volume : 5.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR091021_141.M
Last changed   : 9/10/2021 9:31:24 AM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR_091021_141PM.M
Last changed   : 9/10/2021 10:19:40 AM by vrusu
  
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 Area Percent Report
 =====

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Sorted By           : Signal
Calib. Data Modified : 9/10/2021 10:19:14 AM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

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

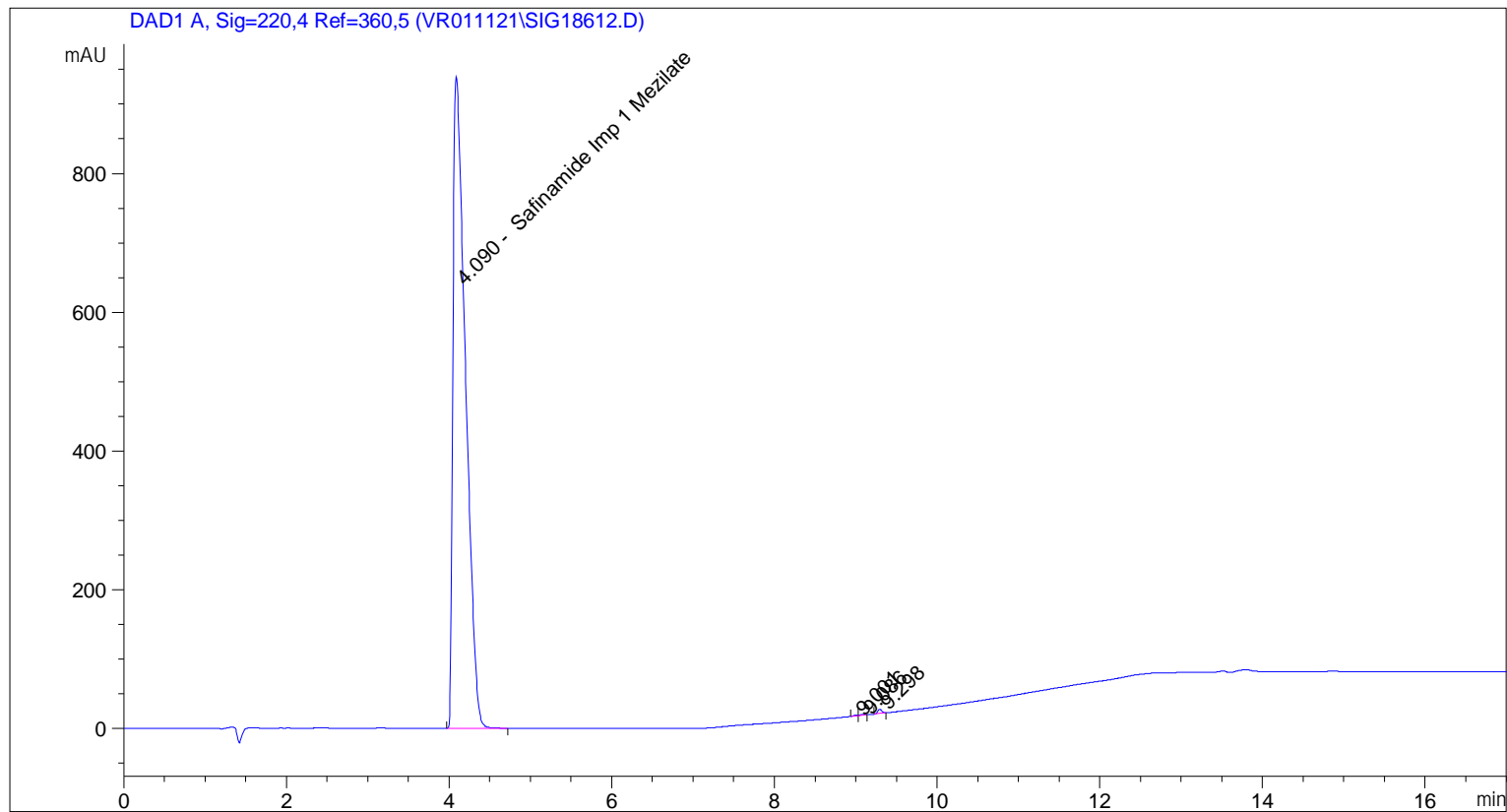
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	4.083	BB	0.1647	1.04874e4	99.6942	Safinamide Imp 1 Mezilate
2	8.999	BV	0.0520	3.44863	0.0328	?
3	9.085	VB	0.0538	5.50908	0.0524	?
4	9.298	BB	0.0551	23.20809	0.2206	?

Totals : 1.05195e4

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*** End of Report ***

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Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 9
Injection Date : 9/10/2021 9:53:51 AM Inj Volume : 5.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR091021_141.M
Last changed : 9/10/2021 9:52:13 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR_091021_141PM.M
Last changed : 9/10/2021 10:19:40 AM by vrusu



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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 9/10/2021 10:19:14 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	4.090	BB	0.1607	1.00381e4	99.7027	Safinamide Imp 1 Mezilate
2	9.001	BV	0.0516	3.15642	0.0314	?
3	9.086	VB	0.0551	5.06912	0.0503	?
4	9.298	BB	0.0549	21.70431	0.2156	?

Totals : 1.00681e4

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*** End of Report ***