

**Name:** COTI-219  
4-Methyl-2-(9H-cyclopenta[1,2-b:4,3-b']dipyridin-9-ylidene)-1-piperazinecarbothioic acid hydrazide

**Lot#:** GR-5-195

**Test Date:** 03/09/2021 (re-test date: 03/09/2026)

**CAS No.:** 1039455-85-0

**MF:** C<sub>17</sub>H<sub>18</sub>N<sub>6</sub>S

**MW:** 338.43

**Appearance:** Yellow solid

**Purity:** 98.9% by HPLC (average of two sample preparations)

**<sup>1</sup>H-NMR:** Conforms

**MS-ESI (+)** Conforms (shows peaks at m/z = 339.15 [M+H]<sup>+</sup>)

**Storage** Store at 0-5°C in a dry place away from direct sunlight

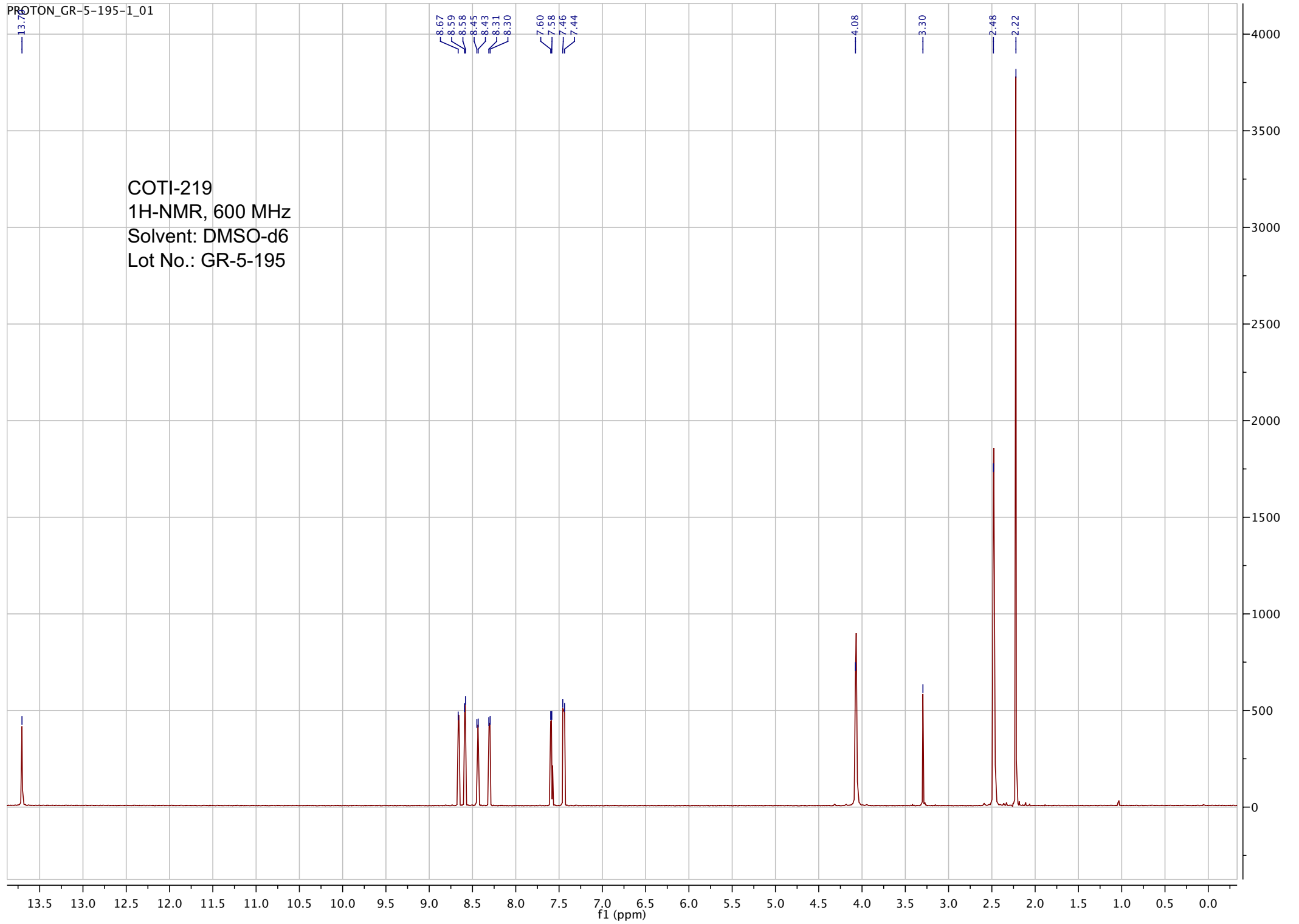
Approved by:

Date: 03/09/2021



Viorica Rusu, QC/QA Manager

COTI-219  
1H-NMR, 600 MHz  
Solvent: DMSO-d6  
Lot No.: GR-5-195

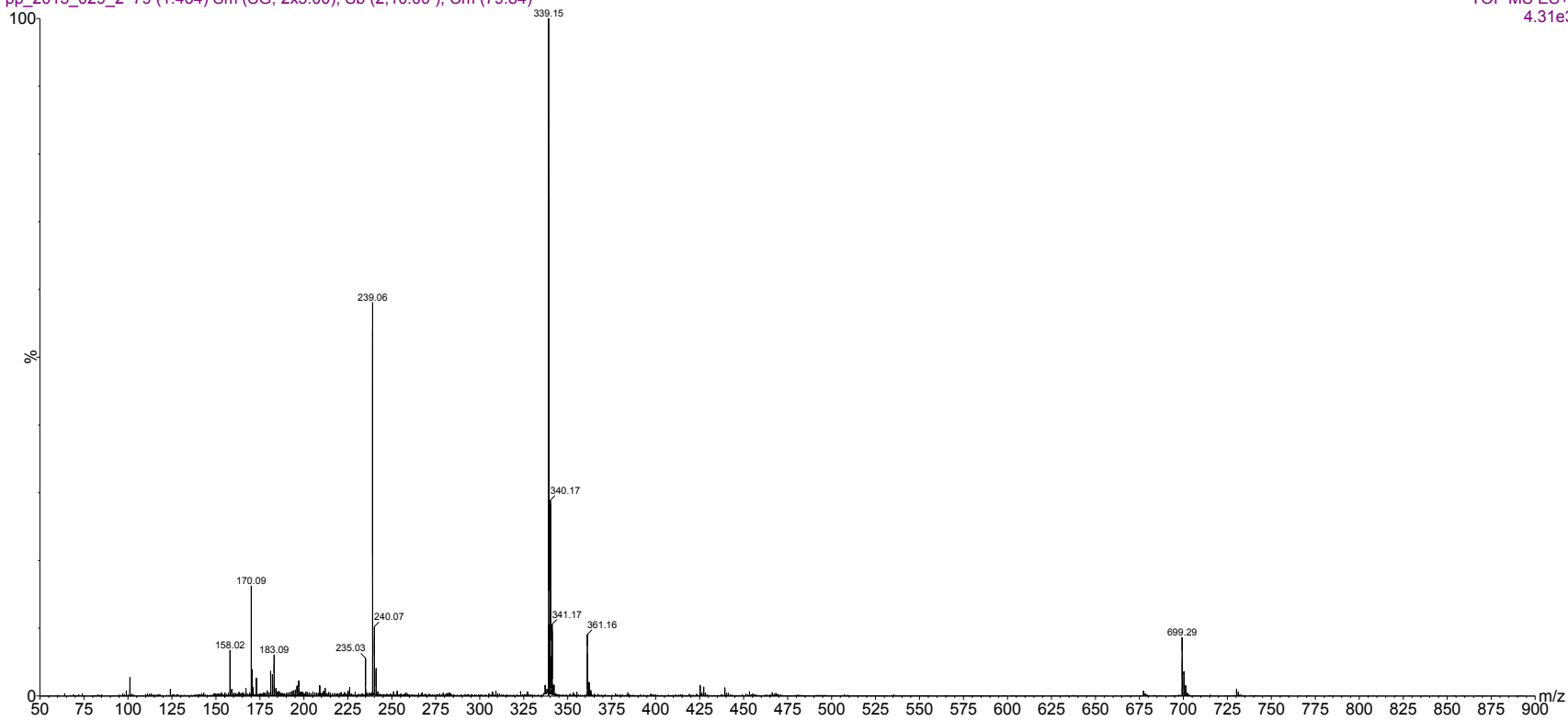


GR-5-195

pp\_2015\_029\_2 79 (1.464) Sm (SG, 2x5.00); Sb (2,10.00 ); Cm (79:84)

17:16:22, 13-Mar-2015

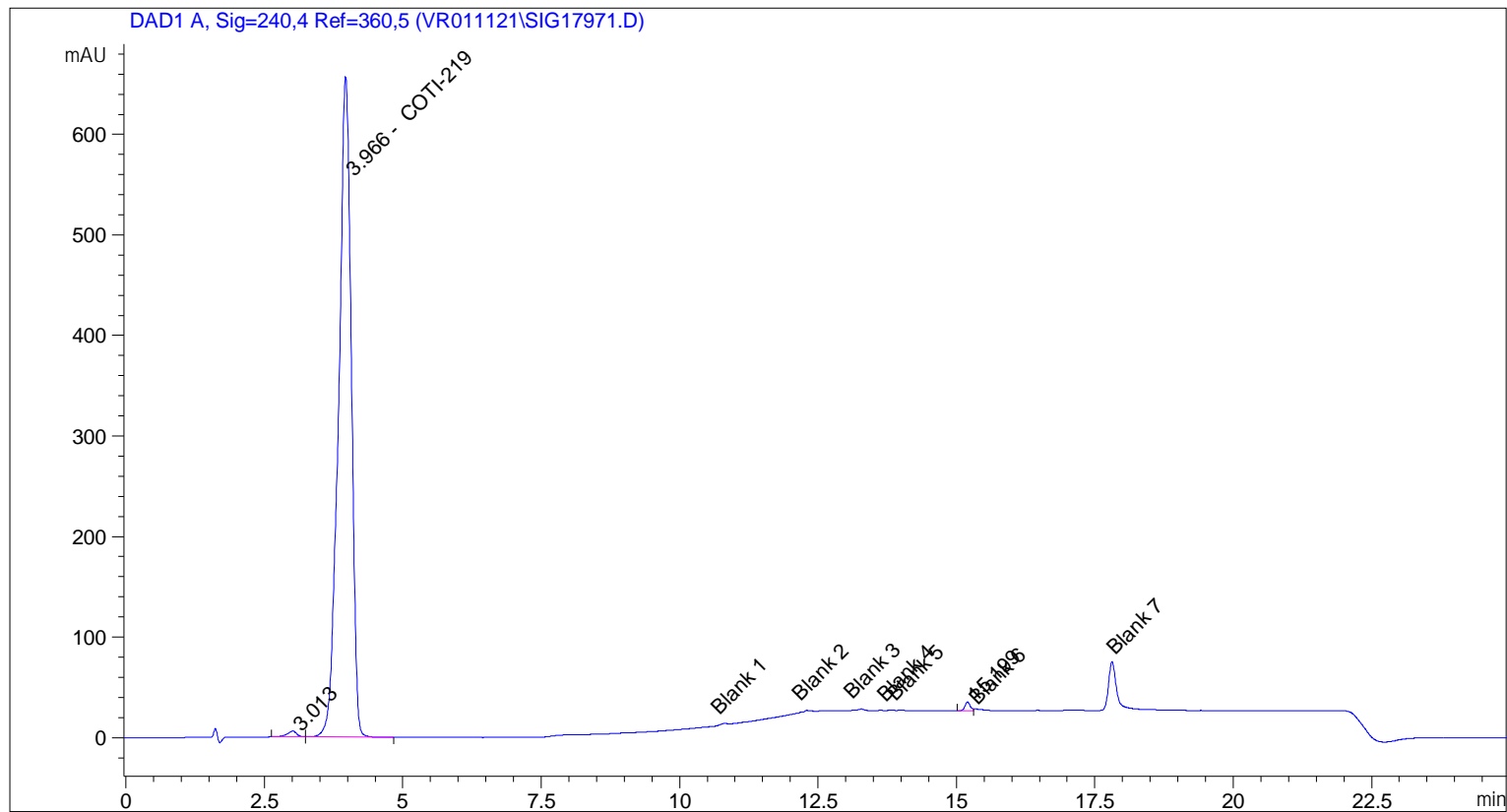
TOF MS ES+  
4.31e3



ESI-MS spectrum GR-5-195. Shows monoisotopic [M+H]<sup>+</sup> mass.

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 32
Injection Date  : 3/9/2021 12:34:53 PM
                                           Inj Volume : 17.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR030921_195.M
Last changed    : 3/9/2021 12:33:52 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR030921_195PM.M
Last changed    : 3/9/2021 2:56:58 PM by vrusu
  
```



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

```

Sorted By      :      Signal
Calib. Data Modified :      3/9/2021 2:46:38 PM
Multiplier:    :      1.0000
Dilution:     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

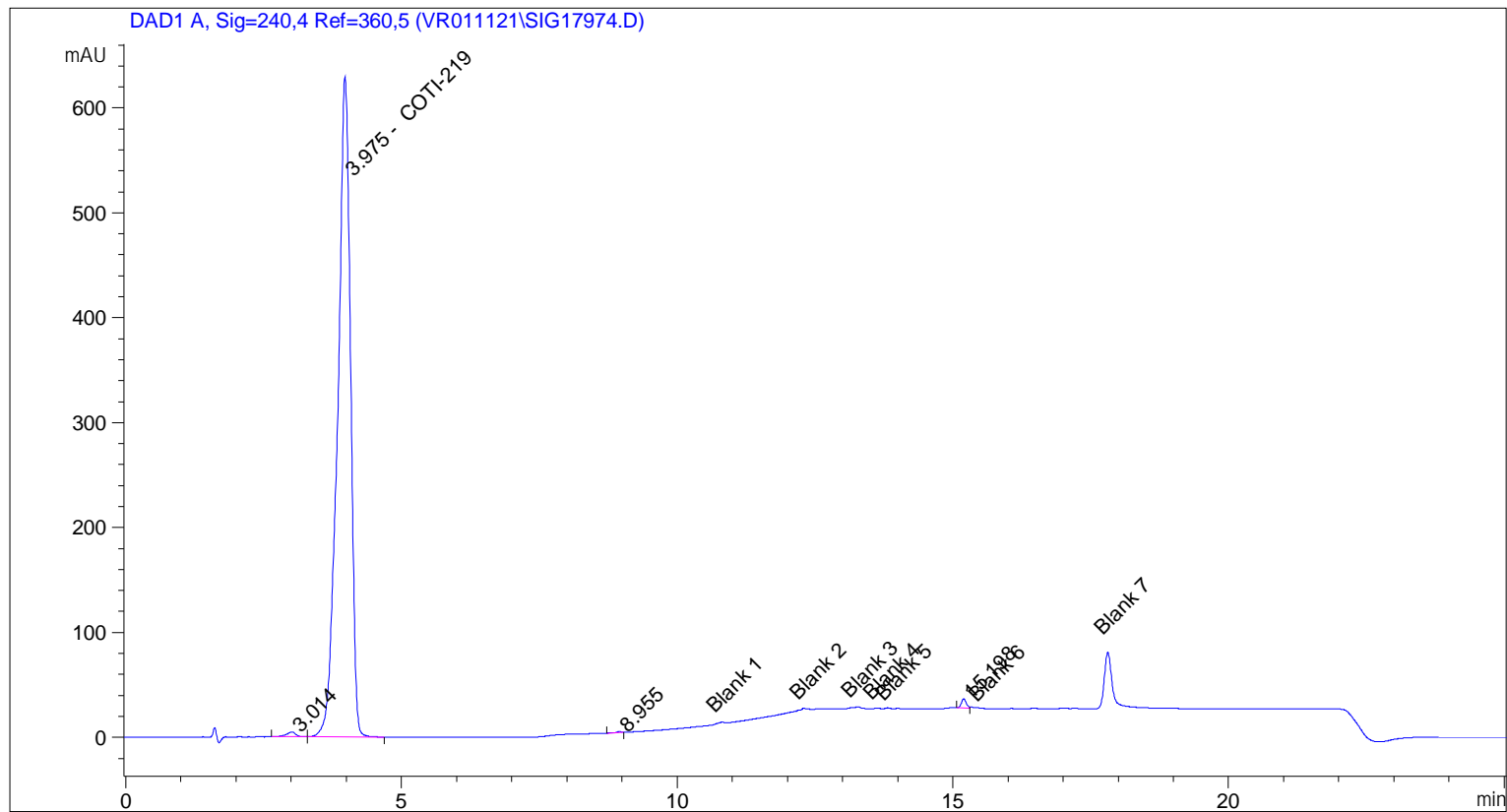
Signal 1: DAD1 A, Sig=240,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.013	BB	0.1680	66.90734	0.6342	?
2	3.966	BB	0.2392	1.04269e4	98.8282	COTI-219
3	15.199	BF	0.0992	56.72781	0.5377	?

Totals : 1.05505e4

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 33
Injection Date  : 3/9/2021 2:01:09 PM
                                           Inj Volume : 17.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR030921_195.M
Last changed    : 3/9/2021 1:59:52 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR030921_195PM.M
Last changed    : 3/9/2021 3:09:54 PM by vrusu
  
```



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

```

Sorted By           :      Signal
Calib. Data Modified :      3/9/2021 2:46:38 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=240,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.014	BB	0.1674	52.18215	0.5079	?
2	3.975	BB	0.2405	1.01648e4	98.9330	COTI-219
3	8.955	BB	0.0761	4.73961	0.0461	?
4	15.198	BF	0.0951	52.70653	0.5130	?

Totals : 1.02745e4

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\*\*\* End of Report \*\*\*