

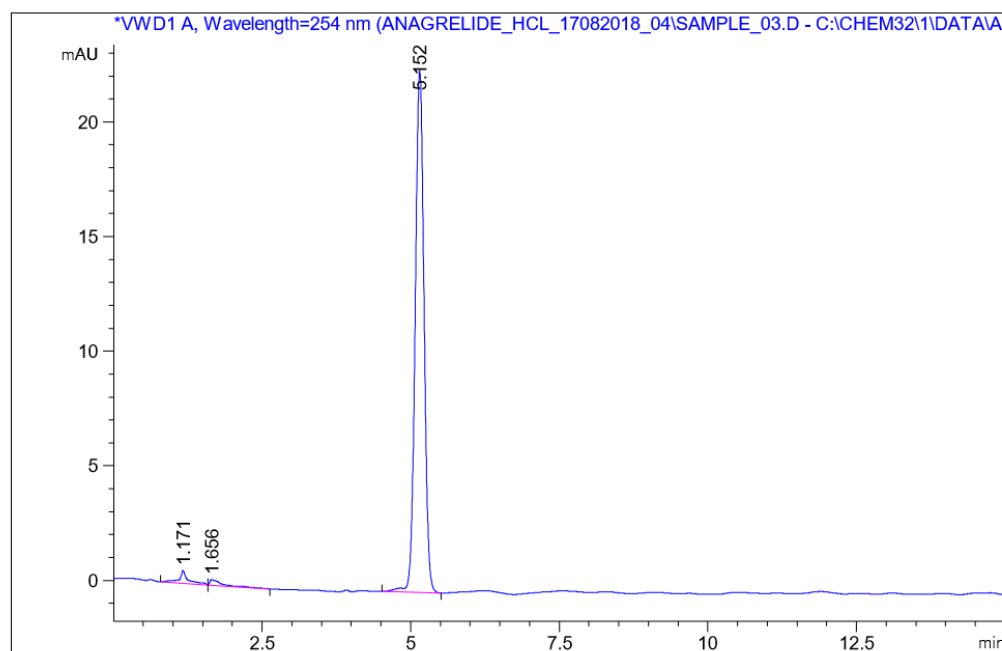
# Method Development of Anagrelide Hydrochloride on SVEA Phenyl Hexyl 150x4.6mm, 5µm as per USP monograph.

## Experimental

**Column:** SVEA PhHex, 4 µm 110 Å 4.6 x 150 mm  
**Instrument:** HPLC  
**Flow rate:** 1.2 mL/min  
**Temperature:** 26 °C  
**Detector:** UV 254 nm  
**Injection volume:** 10 µL  
**Run time:** 15 min  
**Sample:** Anagrelide Hydrochloride Monohydrate

## Method on SVEA Phenyl Hexyl Column (17/08/2018)

**Mobile phase:** Phosphate Buffer pH 2.5: Acetonitrile (25:75)  
**Mobile phase preparation:** Phosphate buffer prepare by dissolving 6.8 gm potassium dihydrogen ortho phosphate in 1-liter water and adjust pH 2.5 by ortho phosphoric acid.  
**Sample preparation:** 10 mg dissolve in phosphate buffer (pH 2.5) : Acetonitrile (75:25) solution in 100ml volumetric flask. Shake well. Then make up to the mark. Sonicate the solution for 10 min. Filter through 0.45µm filter. This is stock solution of 1000 ppm. From stock solution prepare 100 ppm solution for analysis. For this take 1ml stock solution and make up the volume up to 10 ml with phosphate buffer (pH 2.5) : Acetonitrile (75:25)



### Performance

Retention time = 5.152 min

USP Tailing = 1.0150

Area = 235.77



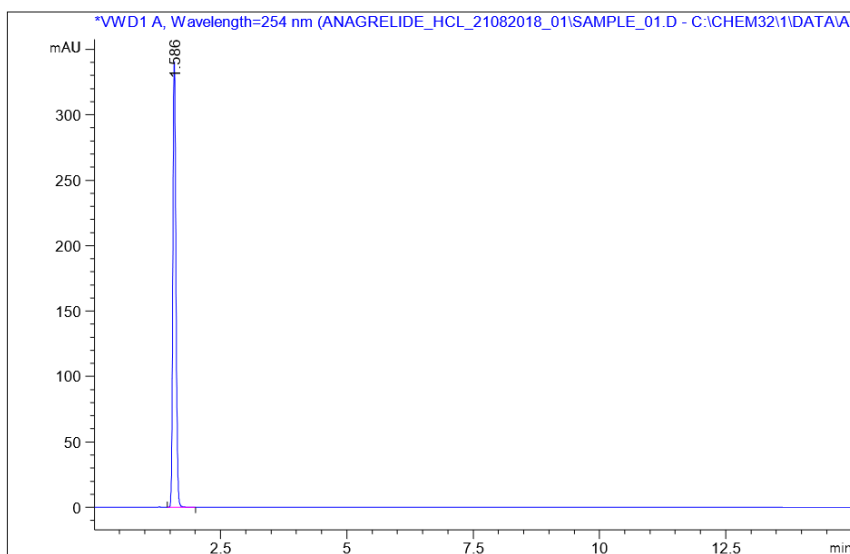
# Method Development of Anagrelide hydrochloride on SVEA Phenyl Hexyl (150x4.6mm), 5µm as per USP monograph.

## Method on SVEA Phenyl Hexyl Column (21/08/2018) - First run

**Mobile phase:** Phosphate Buffer pH 4.0: Acetonitrile (25:75)

**Mobile phase preparation:** Phosphate buffer prepare by dissolving 6.8 gm potassium dihydrogen ortho phosphate in 1-liter water and adjust pH 2.5 by ortho phosphoric acid.

**Sample preparation:** 10 mg dissolve in phosphate buffer (pH 2.5) : Acetonitrile (75:25) solution in 100ml volumetric flask. Shake well. Then make up to the mark. Sonicate the solution for 10 min. Filter through 0.45µm filter. This is stock solution of 1000 ppm. From stock solution prepare 100 ppm solution for analysis. For this take 1ml stock solution and make up the volume up to 10 ml with phosphate buffer (pH 4.0) : Acetonitrile (75:25)



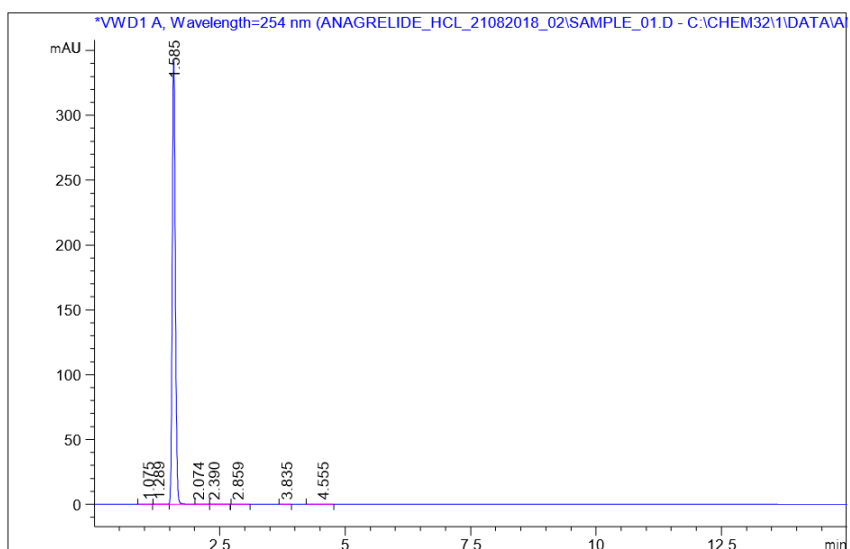
### Performance

Retention time = 1.58585 min

USP Tailing = 1.1537

Area = 1441.9382

## Method on SVEA Phenyl Hexyl Column (21/08/2018) - Second run



### Performance

Retention time = 1.58452 min

USP Tailing = 1.1214

Area = 1446.4456

