

### Dissolution Method Validation

|                |                                               |
|----------------|-----------------------------------------------|
| Product name : | Ramithiazide Tablets                          |
| Lable claim :  | Ramipril 10 mg &<br>Hydrochlorothiazide 25 mg |
| B. No. :       | GPI70403                                      |
| Test :         | Intermediate Precision                        |

|                |           |
|----------------|-----------|
| Analysis Date: | 26-Jun-17 |
|----------------|-----------|

| Name of standard    | Standard purity(%) | Standard wt (mg) | Dilution details     | Conc (ppm) |
|---------------------|--------------------|------------------|----------------------|------------|
| Ramipril            | 99.80              | 25.35            | 250 mL; 3 mL ->25 mL | 12.2       |
| Hydrochlorothiazide | 99.90              | 30.42            | 250 mL; 6 mL ->25 mL | 29.2       |

| Injection No. | Hydrochlorothiazide |                  | Ramipril       |                  |
|---------------|---------------------|------------------|----------------|------------------|
|               | Retention Time      | Area of Standard | Retention Time | Area of Standard |
| 1             | 2.181               | 8018.445         | 4.064          | 5671.704         |
| 2             | 2.182               | 8039.233         | 4.069          | 5666.834         |
| 3             | 2.182               | 8030.953         | 4.069          | 5685.921         |
| 4             | 2.182               | 8037.891         | 4.066          | 5676.504         |
| 5             | 2.181               | 8032.151         | 4.068          | 5670.239         |
| Average       | 2.182               | 8031.735         | 4.187          | 5674.240         |
| SD            | 0.001               | 8.24             | 0.002          | 7.40             |
| %RSD          | 0.03                | 0.10             | 0.05           | 0.13             |

| System suitability results |      |          |
|----------------------------|------|----------|
| % RSD of Ramipril          | 0.13 | NMT 2.0% |
| % RSD of HCTZ              | 0.10 | NMT 2.0% |

|                 |          |    |       |                           |
|-----------------|----------|----|-------|---------------------------|
| Test Solution : | 1 Tablet | mg | 750.0 | mL with Dissolution Media |
|-----------------|----------|----|-------|---------------------------|

| Sample No. | Sample Weight (mg) | Area of Sample      |          | % Assay             |          |
|------------|--------------------|---------------------|----------|---------------------|----------|
|            |                    | Hydrochlorothiazide | Ramipril | Hydrochlorothiazide | Ramipril |
| 1          | 201.07             | 9646.399            | 6057.965 | 105.1               | 97.2     |
| 2          | 187.60             | 9248.398            | 5925.331 | 100.8               | 95.1     |
| 3          | 200.63             | 9429.118            | 5943.174 | 102.7               | 95.4     |
| 4          | 198.11             | 9322.973            | 5928.674 | 101.6               | 95.2     |
| 5          | 198.05             | 9347.578            | 5931.141 | 101.9               | 95.2     |
| 6          | 192.33             | 9361.114            | 5934.695 | 102.0               | 95.3     |
|            |                    | Average             |          | 102.4               | 95.6     |
|            |                    | SD                  |          | 1.5                 | 0.8      |
|            |                    | %RSD                |          | 1.5                 | 0.9      |

Done by:   
Date: 28-Jun-17

Checked by:   
Date: 29-Jun-17

## DISSOLUTION METHOD VALIDATION

|                     |                                                 |
|---------------------|-------------------------------------------------|
| Product name :      | Ramithiazide Tablets 10mg/12.5mg                |
| Lable claim (mg) :  | Ramipril 10 mg &<br>Hydrochlorothiazide 12.5 mg |
| Content :           | Ramipril                                        |
| B. No. :            | GPI70402                                        |
| Parameter :         | Precision                                       |
| LNB No./Pg. No.:    | 421/012                                         |
| Dissolution Medium: | 0.1N HCl                                        |

|                |           |
|----------------|-----------|
| Analysis Date: | 26-Jun-17 |
|----------------|-----------|

| Name of Standard    | Standard Purity(%) | Standard Wt (mg) | Dilution Details      | Conc (ppm) |
|---------------------|--------------------|------------------|-----------------------|------------|
| Ramipril            | 99.8               | 25.2             | 250 mL, 3 mL -> 25 mL | 12.1       |
| Hydrochlorothiazide | 99.9               | 30.0             | 250 mL, 6 mL -> 25 mL | 14.4       |

| Sr.No.                     | RT    | Area of Ramipril | RT    | Area of HCTZ |
|----------------------------|-------|------------------|-------|--------------|
| 1                          | 3.937 | 4202.008         | 2.153 | 7871.488     |
| 2                          | 3.937 | 4195.907         | 2.153 | 7874.765     |
| 3                          | 3.933 | 4200.220         | 2.153 | 7888.353     |
| 4                          | 3.937 | 4200.045         | 2.153 | 7887.365     |
| 5                          | 3.933 | 4185.474         | 2.153 | 7860.188     |
| Bkt Std                    | 3.937 | 4187.947         | 2.153 | 7876.432     |
| Average                    | 3.935 | 4193.919         | 2.153 | 7877.421     |
| SD                         | 0.00  | 6.86             | 0.00  | 11.44        |
| %RSD                       | 0.06  | 0.16             | 0.00  | 0.15         |
| System Suitability Results |       |                  |       |              |
| % RSD of Area              | 0.16  | NMT 2.0%         | 0.15  | NMT 2.0%     |
| Tailing factor             | 0.93  | NMT 2.0          | 0.93  | NMT 2.0      |
| Theoretical plates         | 6109  | NLT 2000         | 6109  | NLT 2000     |

|                 |   |            |       |                    |
|-----------------|---|------------|-------|--------------------|
| Test Solution : | 1 | tablets in | 750.0 | mL with Dissomedia |
|-----------------|---|------------|-------|--------------------|

| Sample No. | Tablet Weight (mg) | Area of Ramipril | Area of HCTZ | Ramipril (% Release) | HCTZ (% Release) |
|------------|--------------------|------------------|--------------|----------------------|------------------|
| 1          | 189.4              | 4514.7847        | 9278.3255    | 97.5                 | 101.7            |
| 2          | 200.9              | 4530.8990        | 9561.7712    | 97.8                 | 104.8            |
| 3          | 205.5              | 4708.3548        | 9543.7297    | 101.6                | 104.6            |
| 4          | 201.1              | 4621.9735        | 9390.8676    | 99.8                 | 102.9            |
| 5          | 200.5              | 4694.1901        | 9575.7449    | 101.3                | 104.9            |
| 6          | 201.0              | 4719.9158        | 9581.1136    | 101.9                | 105.0            |
|            |                    | Average          | 100.0        | 104.0                |                  |
|            |                    | SD               | 1.9665       | 1.3713               |                  |
|            |                    | %RSD             | 1.97         | 1.32                 |                  |

Done by:  
Date:

*[Signature]*  
28-Jun-17

Checked by:  
Date:

*[Signature]*  
25-Jun-17



### Dissolution Method Validation

|                |                                                |
|----------------|------------------------------------------------|
| Product name : | Ramithiazide Tablets                           |
| Lable claim :  | Ramipril 5 mg &<br>Hydrochlorothiazide 12.5 mg |
| B. No. :       | GP170401                                       |
| Test :         | Intermediate Precision                         |

|                |           |
|----------------|-----------|
| Analysis Date: | 26-Jun-17 |
|----------------|-----------|

| Name of standard    | Standard purity(%) | Standard wt (mg) | Dilution details     | Conc (ppm) |
|---------------------|--------------------|------------------|----------------------|------------|
| Ramipril            | 99.8               | 25.35            | 250 mL; 3 mL ->25 mL | 12.2       |
| Hydrochlorothiazide | 99.9               | 30.42            | 250 mL; 6 mL ->25 mL | 29.2       |

| Injection No. | Hydrochlorothiazide |                  | Ramipril       |                  |
|---------------|---------------------|------------------|----------------|------------------|
|               | Retention Time      | Area of Standard | Retention Time | Area of Standard |
| 1             | 2.181               | 3975.181         | 4.071          | 2865.259         |
| 2             | 2.184               | 3990.340         | 4.074          | 2888.802         |
| 3             | 2.184               | 4000.298         | 4.074          | 2900.784         |
| 4             | 2.184               | 3994.317         | 4.074          | 2896.432         |
| 5             | 2.184               | 4001.147         | 4.074          | 2883.238         |
| Average       | 2.183               | 3992.257         | 4.073          | 2886.903         |
| SD            | 0.001               | 10.53            | 0.001          | 13.87            |
| %RSD          | 0.06                | 0.26             | 0.03           | 0.48             |

| System suitability results |      |          |
|----------------------------|------|----------|
| % RSD of Ramipril          | 0.48 | NMT 2.0% |
| % RSD of HCTZ              | 0.26 | NMT 2.0% |

|                 |          |    |       |                           |
|-----------------|----------|----|-------|---------------------------|
| Test Solution : | 1 Tablet | mg | 750.0 | mL with Dissolution Media |
|-----------------|----------|----|-------|---------------------------|

| Sample No. | Sample Weight (mg) | Area of Sample      |          | % Assay             |          |
|------------|--------------------|---------------------|----------|---------------------|----------|
|            |                    | Hydrochlorothiazide | Ramipril | Hydrochlorothiazide | Ramipril |
| 1          | 198.96             | 4754.696            | 3037.586 | 104.2               | 95.8     |
| 2          | 198.44             | 4827.260            | 3190.934 | 105.8               | 100.7    |
| 3          | 199.22             | 4931.611            | 3258.585 | 108.1               | 102.8    |
| 4          | 198.46             | 4733.245            | 3068.377 | 103.8               | 96.8     |
| 5          | 198.50             | 4815.842            | 3031.977 | 105.6               | 95.7     |
| 6          | 196.62             | 4750.895            | 3096.239 | 104.2               | 97.7     |
|            |                    | Average             |          | 105.3               | 98.2     |
|            |                    | SD                  |          | 1.6                 | 2.9      |
|            |                    | %RSD                |          | 1.5                 | 2.9      |

Done by:   
Date: 28-Jun-17

Checked by:   
Date: 29-Jun-17

Sequence: 26-Jun-17  
Last Update Operator: niteen gapat

| D_Signa | Name                                     | Position/Volume [µL] | Instrument Method                   | Processing Method | Status   | Comment                | Inject Time            |
|---------|------------------------------------------|----------------------|-------------------------------------|-------------------|----------|------------------------|------------------------|
|         | Pre SST 1                                | Vial:2               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Finished | Intermediate Precision | 26-Jun-17 18:25 +05:30 |
|         | Pre SST 2                                | Vial:3               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Finished | Intermediate Precision | 26-Jun-17 19:10 +05:30 |
|         | Pre SST 3                                | Vial:4               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Finished | Intermediate Precision | 26-Jun-17 19:21 +05:30 |
|         | Blank                                    | Vial:1               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Finished | Intermediate Precision | 26-Jun-17 19:33 +05:30 |
|         | Blank solution                           | Vial:1               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 5mg/12.5mg -1          | Vial:2               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 5mg/12.5mg -2          | Vial:2               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 5mg/12.5mg -3          | Vial:2               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 5mg/12.5mg -4          | Vial:2               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 5mg/12.5mg -5          | Vial:2               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Placebo solution 5mg/12.5mg              | Vial:2               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Sample solution 5mg/12.5mg -1            | Vial:5               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Sample solution 5mg/12.5mg -2            | Vial:6               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Sample solution 5mg/12.5mg -3            | Vial:7               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Sample solution 5mg/12.5mg -4            | Vial:8               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Sample solution 5mg/12.5mg -5            | Vial:9               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Sample solution 5mg/12.5mg -6            | Vial:10              | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Bracketing standard solution 5mg/12.5mg  | Vial:11              | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Blank solution                           | Vial:2               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 10mg/12.5mg -1         | Vial:1               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 10mg/12.5mg -2         | Vial:3               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 10mg/12.5mg -3         | Vial:3               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 10mg/12.5mg -4         | Vial:3               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 10mg/12.5mg -5         | Vial:3               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Placebo solution 10mg/12.5mg             | Vial:12              | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Sample solution 10mg/12.5mg -1           | Vial:13              | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Sample solution 10mg/12.5mg -2           | Vial:14              | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Sample solution 10mg/12.5mg -3           | Vial:15              | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Sample solution 10mg/12.5mg -4           | Vial:16              | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Sample solution 10mg/12.5mg -5           | Vial:17              | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Sample solution 10mg/12.5mg -6           | Vial:18              | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Bracketing standard solution 10mg/12.5mg | Vial:3               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Blank solution                           | Vial:1               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 10mg/25mg -1           | Vial:4               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 10mg/25mg -2           | Vial:4               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 10mg/25mg -3           | Vial:4               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |
| None    | Standard solution 10mg/25mg -4           | Vial:4               | Ramithiazide Dissolution HPLC-04_01 | PR Method_01      | Idle     | Intermediate Precision |                        |

26-Jun-17

26-Jun-17

Sequence: 26-Jun-17  
Last Update Operator: niteen gapat

|      |                                        |         |       |                                      |               |      |                        |
|------|----------------------------------------|---------|-------|--------------------------------------|---------------|------|------------------------|
| None | Standard solution 10mg/25mg -5         | Vial:4  | 10.00 | Ramithiazide Dissolution HPLC-04_ 01 | PR Method_ 01 | Idle | Intermediate Precision |
| None | Placebo solution 10mg/25mg             | Vial:19 | 10.00 | Ramithiazide Dissolution HPLC-04_ 01 | PR Method_ 01 | Idle | Intermediate Precision |
| None | Sample solution 10mg/25mg -1           | Vial:20 | 10.00 | Ramithiazide Dissolution HPLC-04_ 01 | PR Method_ 01 | Idle | Intermediate Precision |
| None | Sample solution 10mg/25mg -2           | Vial:21 | 10.00 | Ramithiazide Dissolution HPLC-04_ 01 | PR Method_ 01 | Idle | Intermediate Precision |
| None | Sample solution 10mg/25mg -3           | Vial:22 | 10.00 | Ramithiazide Dissolution HPLC-04_ 01 | PR Method_ 01 | Idle | Intermediate Precision |
| None | Sample solution 10mg/25mg -4           | Vial:23 | 10.00 | Ramithiazide Dissolution HPLC-04_ 01 | PR Method_ 01 | Idle | Intermediate Precision |
| None | Sample solution 10mg/25mg -5           | Vial:24 | 10.00 | Ramithiazide Dissolution HPLC-04_ 01 | PR Method_ 01 | Idle | Intermediate Precision |
| None | Sample solution 10mg/25mg -6           | Vial:25 | 10.00 | Ramithiazide Dissolution HPLC-04_ 01 | PR Method_ 01 | Idle | Intermediate Precision |
| None | Bracketing standard solution 10mg/25mg | Vial:4  | 10.00 | Ramithiazide Dissolution HPLC-04_ 01 | PR Method_ 01 | Idle | Intermediate Precision |
| None | Wash                                   | Vial:1  | 10.00 | Wash method D_H 04 NEW               | PR Method_ 01 | Idle | Intermediate Precision |
| None | Shut                                   | Vial:1  | 10.00 | Shut method_ HPLC 04 NEW             | PR Method_ 01 | Idle | Intermediate Precision |

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26-Jun-17

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|             |                                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------------|
| Name        | Ramithiazide Dissolution HPLC-04_01                                                                      |
| Data Vault  | XVault                                                                                                   |
| Path        | chrom://qbd-pc-15/XVault/QbD-INST-HPLC-04/588/26-Jun-17.seq/Ramithiazide Dissolution HPLC-04_01.instmeth |
| Comment     | Ramithiazide                                                                                             |
| Description | Dissolution                                                                                              |
| Run time    | 10.000 [min]                                                                                             |
| Instrument  | QbD-INST-HPLC-04 on qbd-pc-15                                                                            |
| Created     | 11-Jun-17 14:36 +05:30 Santosh Padmere                                                                   |
| Last Update | 26-Jun-17 17:45 +05:30 Santosh Padmere                                                                   |

  
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| Property                                                          | Value                          |
|-------------------------------------------------------------------|--------------------------------|
| Settings for module Quat. Pump (G1311C - Pump: PUMP.0)            |                                |
| Flow                                                              | 1.000 [mL/min]                 |
| Low Pressure Limit                                                | 0.00 [bar]                     |
| High Pressure Limit                                               | 400.00 [bar]                   |
| Maximum Flow Gradient                                             | 100.000 [mL/min <sup>2</sup> ] |
| Primary Channel                                                   | Automatic                      |
| Section Stroke (StrokeA)                                          |                                |
| Automatic Stroke Calculation                                      | Yes                            |
| Section Compress (CompressA)                                      |                                |
| Compressibility Mode                                              | Compressibility Value Set      |
| Compressibility                                                   | 100 [10e-6/bar]                |
| Section Stop Time (StopTime)                                      |                                |
| Stoptime Mode                                                     | Time set                       |
| Stoptime                                                          | 10.00 [min]                    |
| Section Post Time (PostTime)                                      |                                |
| Posttime Mode                                                     | Off                            |
| Solvent Composition (SolventComposition)                          |                                |
| 0                                                                 |                                |
| Channel                                                           | A                              |
| Name 1                                                            | Mobile Phase                   |
| Used                                                              | Yes                            |
| Percent                                                           | 100.0 [%]                      |
| 1                                                                 |                                |
| Channel                                                           | B                              |
| Name 1                                                            |                                |
| Used                                                              | No                             |
| 2                                                                 |                                |
| Channel                                                           | C                              |
| Name 1                                                            |                                |
| Used                                                              | No                             |
| 3                                                                 |                                |
| Channel                                                           | D                              |
| Name 1                                                            |                                |
| Used                                                              | No                             |
| Timetable (Timetable)                                             |                                |
| Settings for module Sampler (G1329B - Sampler: SAMPLER.0)         |                                |
| Section Auxiliary (Auxiliary)                                     |                                |
| Draw Speed                                                        | 200 [µL/min]                   |
| Eject Speed                                                       | 200 [µL/min]                   |
| Draw Position Offset                                              | 0.0 [mm]                       |
| Section Injection (Injection)                                     |                                |
| Injection Mode                                                    | Standard injection             |
| Injection Volume                                                  | 10.00 [µL]                     |
| Section High throughput (HighThroughput)                          |                                |
| Section Overlapped Injection (HighThroughput_OverlappedInjection) |                                |
| Enable Overlapped Injection                                       | No                             |

  
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|                                                                                   |                                      |
|-----------------------------------------------------------------------------------|--------------------------------------|
| Section Thermostat (Thermostat)                                                   |                                      |
| Not Ready Temperature Mode                                                        | Enable Analysis With Any Temperature |
| Thermostat Control                                                                | Thermostat Control Set Value         |
| Thermostat Temperature                                                            | 25 [°C]                              |
| Section Stop Time (StopTime)                                                      |                                      |
| Stoptime Mode                                                                     | As pump/No limit                     |
| Section Post Time (PostTime)                                                      |                                      |
| Posttime Mode                                                                     | Off                                  |
| Section Timetable (Timetable)                                                     |                                      |
| Timetable (Timetable_TimetableEntry)                                              |                                      |
| Settings for module Column Comp. (G1316A - Column Comp.: COLCOMP.0)               |                                      |
| Section Left Temperature Control (LeftTemperatureControl)                         |                                      |
| Temperature Control Mode                                                          | Temperature Set                      |
| Temperature                                                                       | 25.00 [°C]                           |
| Section Enable Analysis Left Temperature (LeftTemperatureControl_NotReadyLimit)   |                                      |
| Enable Analysis Left Temperature On                                               | Yes                                  |
| Enable Analysis Left Temperature Value                                            | 0.80 [°C]                            |
| Section Right Temperature Control (RightTemperatureControl)                       |                                      |
| Right temperature Control Mode                                                    | Combined                             |
| Section Enable Analysis Right Temperature (RightTemperatureControl_NotReadyLimit) |                                      |
| Enable Analysis Right Temperature On                                              | Yes                                  |
| Enable Analysis Right Temperature Value                                           | 0.80 [°C]                            |
| Section Stop Time (StopTime)                                                      |                                      |
| Stoptime Mode                                                                     | As pump/injector                     |
| Section Post Time (PostTime)                                                      |                                      |
| Posttime Mode                                                                     | Off                                  |
| Section Timetable (Timetable)                                                     |                                      |
| Timetable (Timetable_TimetableEntry)                                              |                                      |
| Settings for module VWD (G1314F - VWD: VWD.0)                                     |                                      |
| Signal Peakwidth                                                                  | > 0.1 min (2 s resp. time) (5 Hz)    |
| Analog Output Source Channel                                                      | 1                                    |
| Signal Polarity                                                                   | Positive (+)                         |
| Lamp on required for aquisition                                                   | Yes                                  |
| Acquire Signal without Reference                                                  | No                                   |
| Acquire Reference only                                                            | No                                   |
| Section Analog Output (AnalogOutput)                                              |                                      |
| Analog Zero Offset                                                                | 5 [%]                                |
| Analog Attenuation                                                                | 1000 [mAU]                           |

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26-Jun-17

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26-Jun-17

|                                         |                  |
|-----------------------------------------|------------------|
| Section Signals (Signals)               |                  |
| Section Signal (Signals_Signal)         |                  |
| Use Signal                              | Yes              |
| Signal ID                               | Signal A         |
| Signal Wavelength                       | 210 [nm]         |
| Section Autobalance (PrepareAutomation) |                  |
| Autobalance Prerun                      | Yes              |
| Autobalance Postrun                     | No               |
| Section Scan Variables (ScanVariables)  |                  |
| Scan Range From                         | 190 [nm]         |
| Scan Range To                           | 400 [nm]         |
| Scan Range Step                         | 2 [nm]           |
| Section Stoptime (StopTime)             |                  |
| Stoptime Mode                           | As pump/injector |
| Section Posttime (PostTime)             |                  |
| Posttime Mode                           | Off              |
| Section Timetable (Timetable)           |                  |
| Timetable (Timetable TimetableEntry)    |                  |

  
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| Property                                                                        | Value |
|---------------------------------------------------------------------------------|-------|
| Settings for module Sampler (G1329B -<br>Pretreatment (PretreatmentInstruction) |       |

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Agilent  
26 Jun 17

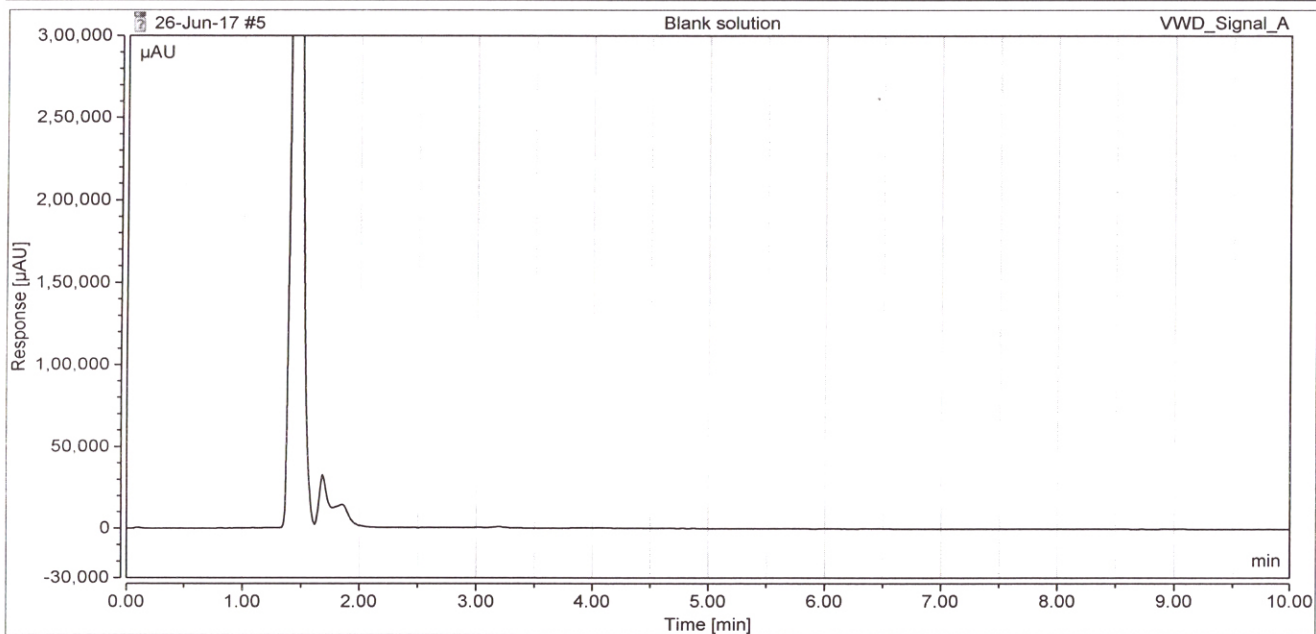


## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Blank solution                      | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:1                              | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 26-Jun-2017 20:03                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name | Retention (DETECTED)<br>min | Area<br>$\mu$ AU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|-----------|-----------------------------|----------------------|---------------|--------------|----------------|
| Total: |           |                             | 0.000                |               |              |                |

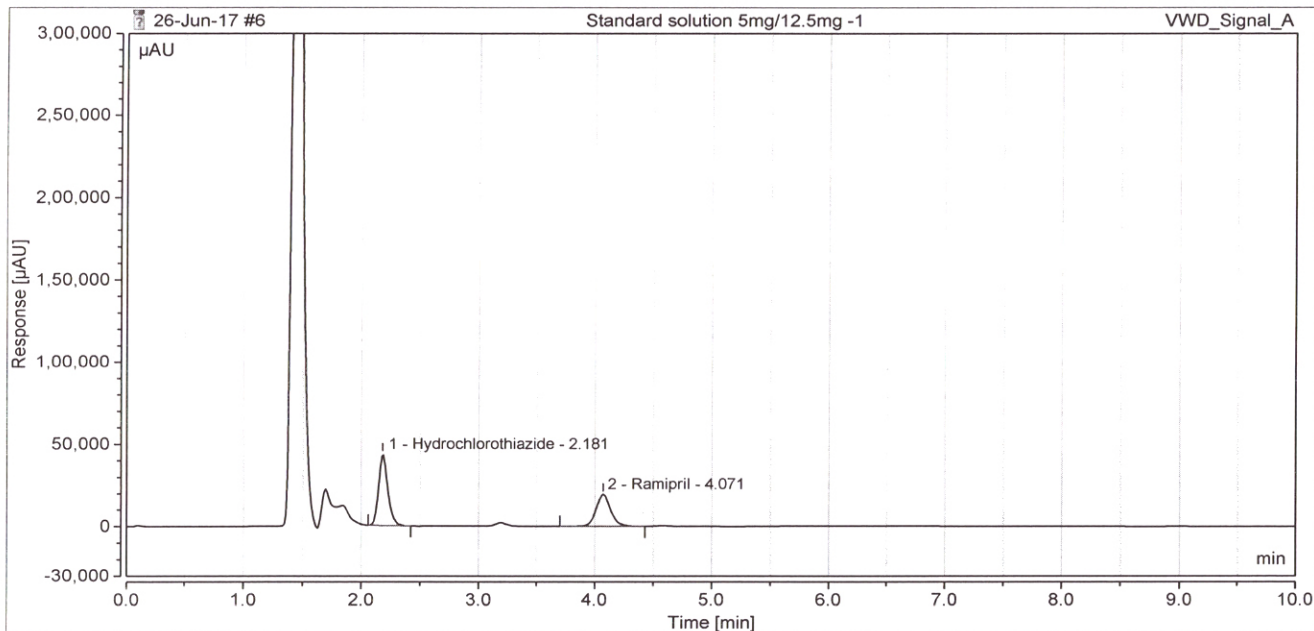
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Standard solution 5mg/12.5mg -1  
Vial Number: Vial:2  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 26-Jun-2017 20:14  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.181                       | 3975.181        | 58.11         | 3819         | 1.25           |
| 2      | Ramipril            | 4.071                       | 2865.259        | 41.89         | 5333         | 1.11           |
| Total: |                     |                             | 6840.440        |               |              |                |

Rep  
28-Jun-17

Rijani  
29-Jun-17

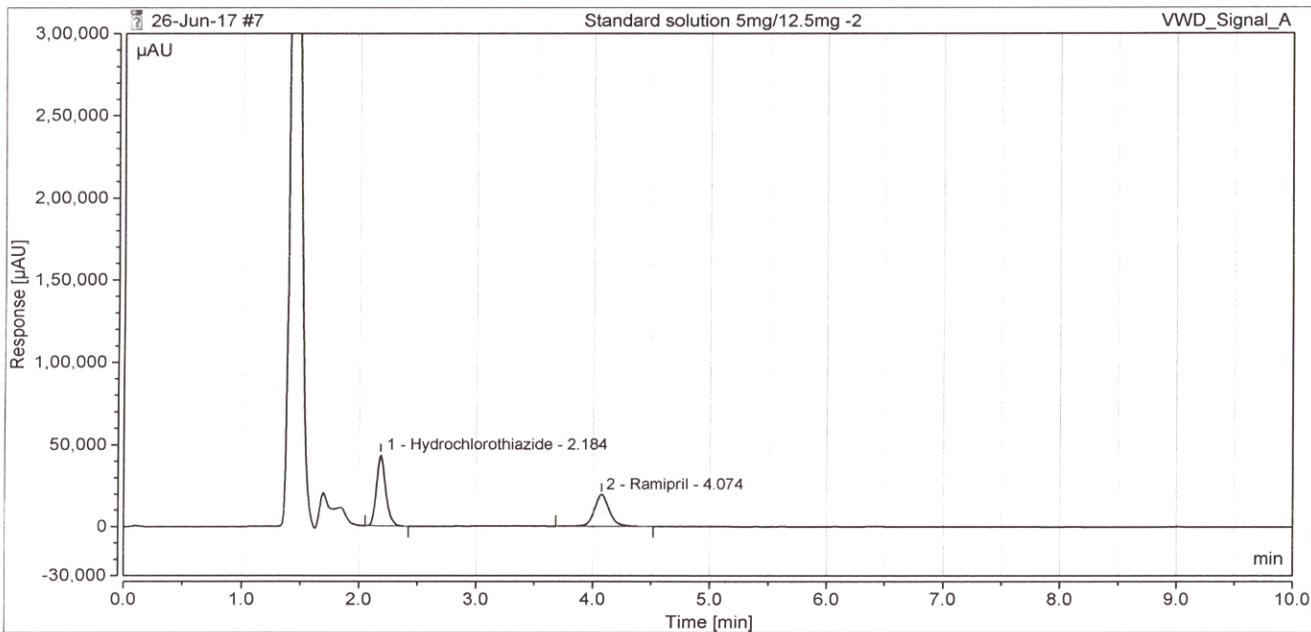
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Standard solution 5mg/12.5mg -2  
Vial Number: Vial:2  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 26-Jun-2017 20:25  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.184                       | 3990.340        | 58.01         | 3832         | 1.23           |
| 2      | Ramipril            | 4.074                       | 2888.802        | 41.99         | 5304         | 1.12           |
| Total: |                     |                             | 6879.142        |               |              |                |

He  
28-Jun-17

Rajani  
29-Jun-17

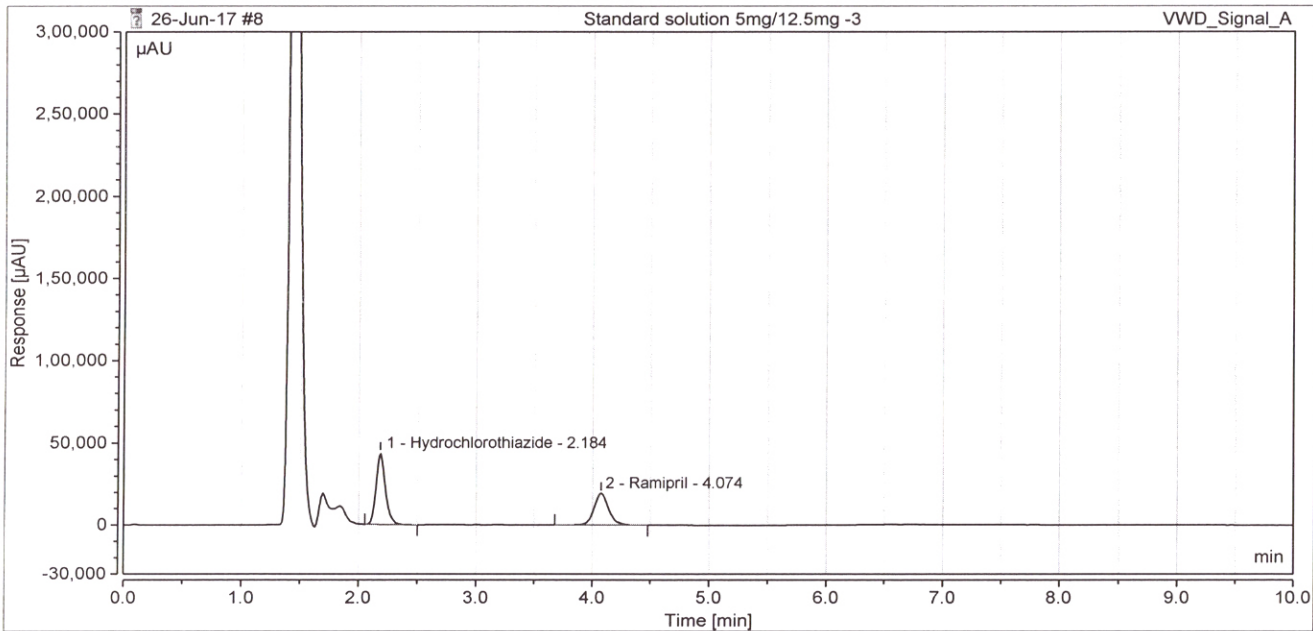


## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Standard solution 5mg/12.5mg -3     | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:2                              | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 26-Jun-2017 20:36                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.184                       | 4000.298        | 57.97         | 3821         | 1.23           |
| 2      | Ramipril            | 4.074                       | 2900.784        | 42.03         | 5275         | 1.12           |
| Total: |                     |                             | 6901.082        |               |              |                |

GH  
28-Jun-17

Ryan  
28-Jun-17



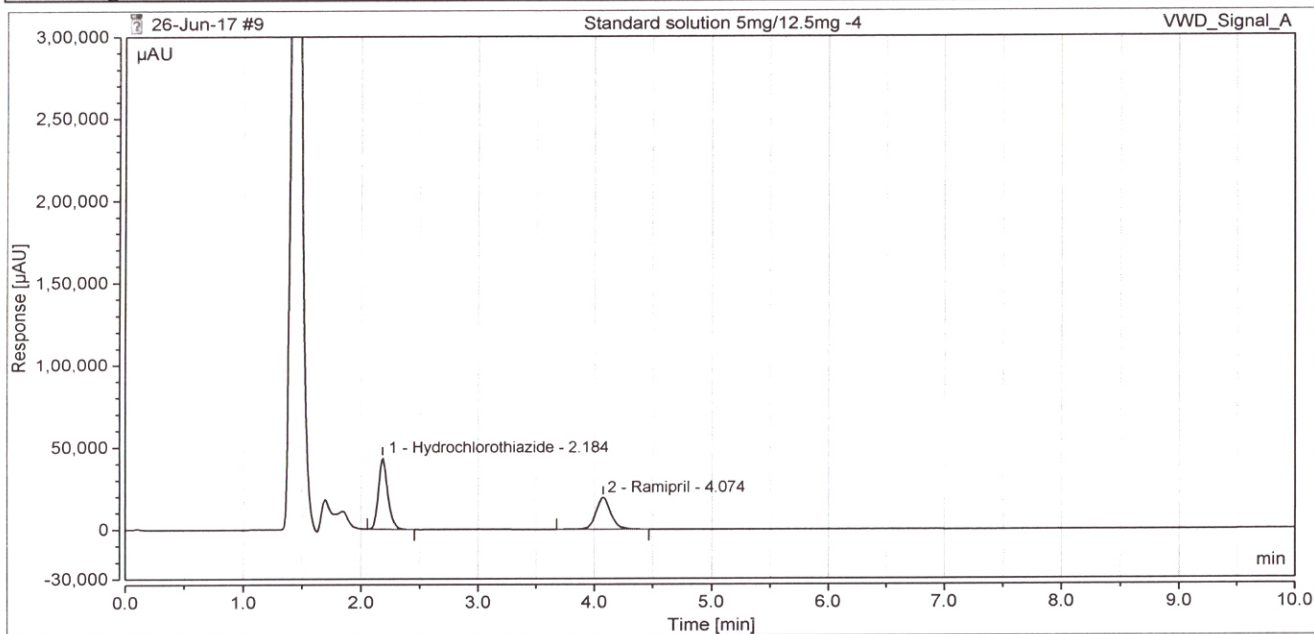
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Standard solution 5mg/12.5mg -4  
Vial Number: Vial:2  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 26-Jun-2017 20:46  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.184                       | 3994.317        | 57.97         | 3816         | 1.22           |
| 2      | Ramipril            | 4.074                       | 2896.432        | 42.03         | 5263         | 1.12           |
| Total: |                     |                             | 6890.749        |               |              |                |

Me  
28-Jun-17

gamin  
29-Jun-17

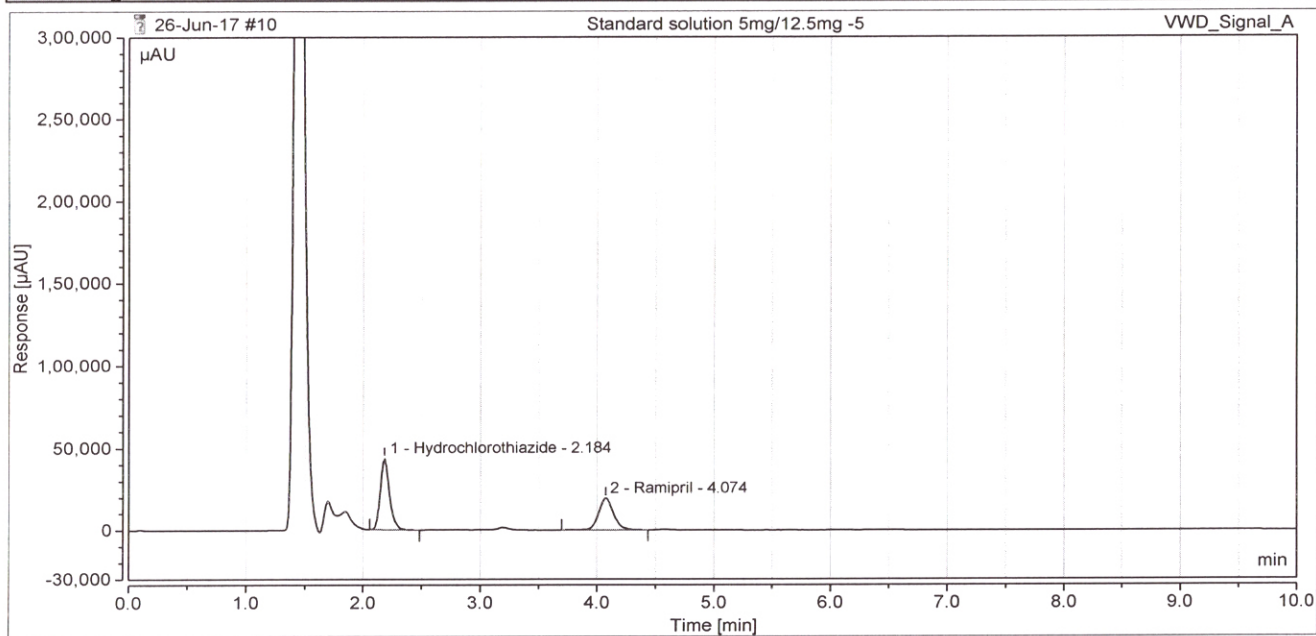
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Standard solution 5mg/12.5mg -5  
Vial Number: Vial:2  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 26-Jun-2017 20:57  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>$\mu\text{AU} \cdot \text{min}$ | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------------------------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.184                       | 4001.147                                | 58.12         | 3816         | 1.24           |
| 2      | Ramipril            | 4.074                       | 2883.238                                | 41.88         | 5320         | 1.13           |
| Total: |                     |                             | 6884.385                                |               |              |                |

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28-147-17

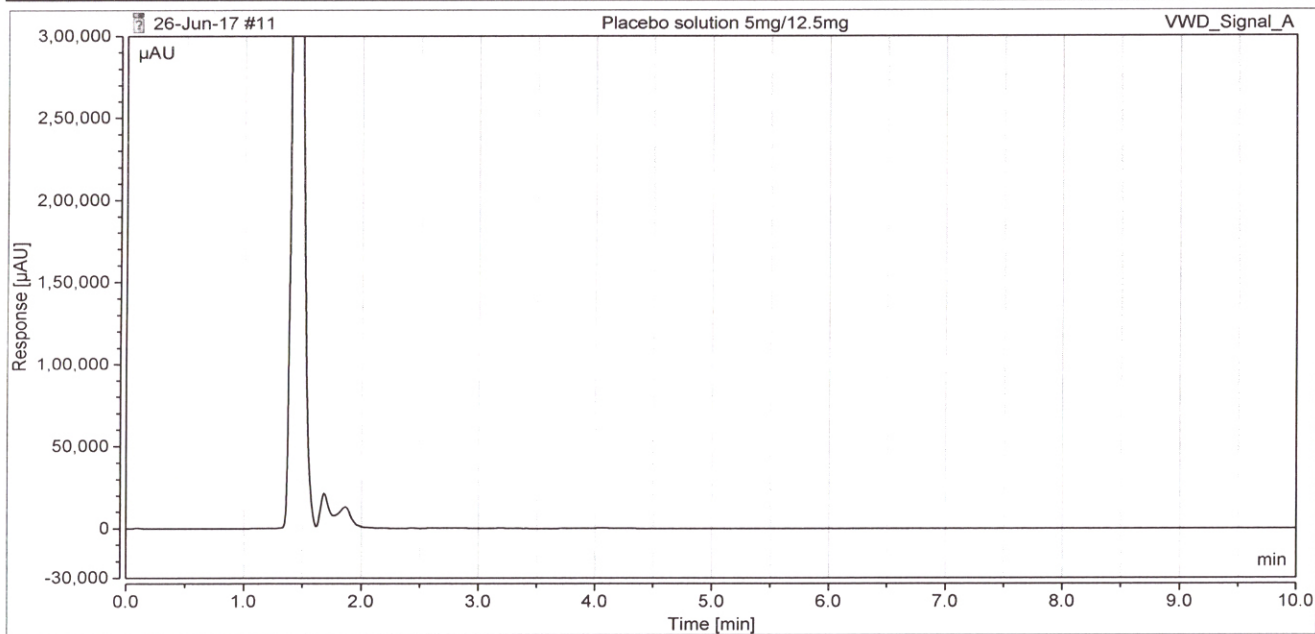
Signature  
28-Jun-17

## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Placebo solution 5mg/12.5mg         | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:5                              | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 26-Jun-2017 21:08                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|-----------|-----------------------------|-----------------|---------------|--------------|----------------|
| Total: |           |                             | 0.000           |               |              |                |

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28-Jun-17

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28-Jun-17



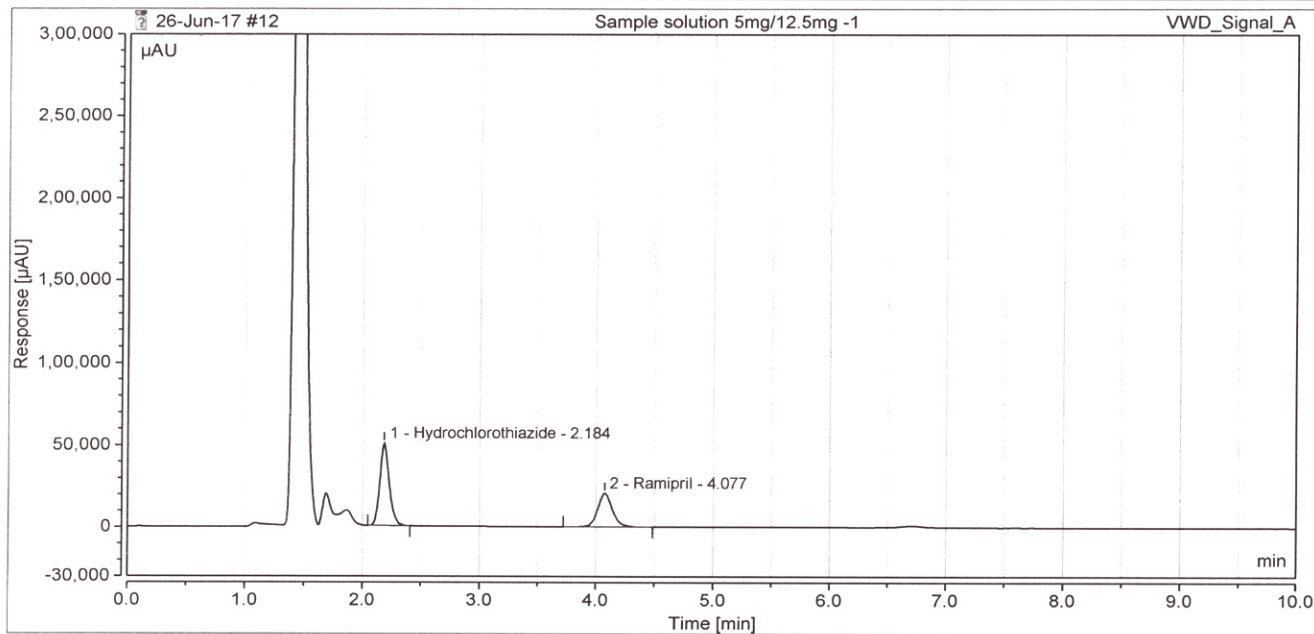
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Sample solution 5mg/12.5mg -1  
Vial Number: Vial:6  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 26-Jun-2017 21:19  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.184                       | 4754.696        | 61.02         | 3587         | 1.22           |
| 2      | Ramipril            | 4.077                       | 3037.586        | 38.98         | 5283         | 1.11           |
| Total: |                     |                             | 7792.282        |               |              |                |

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28-Jun-17

Signature  
28-Jun-17

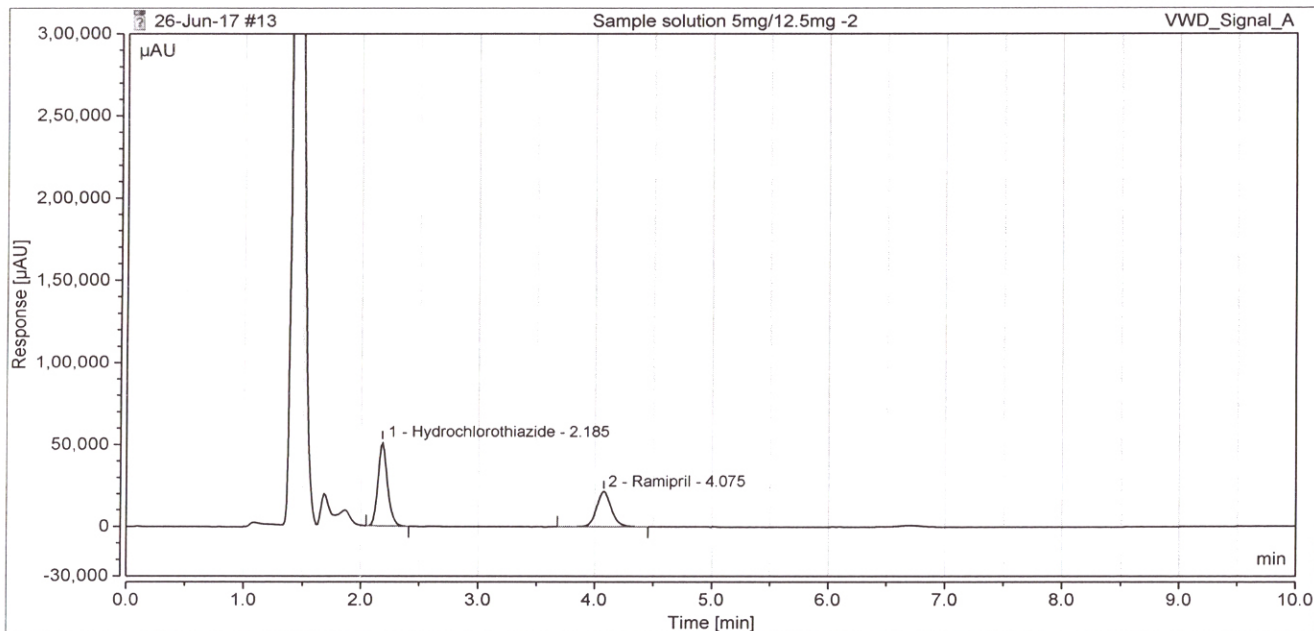


# QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Sample solution 5mg/12.5mg -2       | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:7                              | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 26-Jun-2017 21:30                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.185                       | 4827.260        | 60.20         | 3589         | 1.20           |
| 2      | Ramipril            | 4.075                       | 3190.934        | 39.80         | 5284         | 1.13           |
| Total: |                     |                             | 8018.194        |               |              |                |

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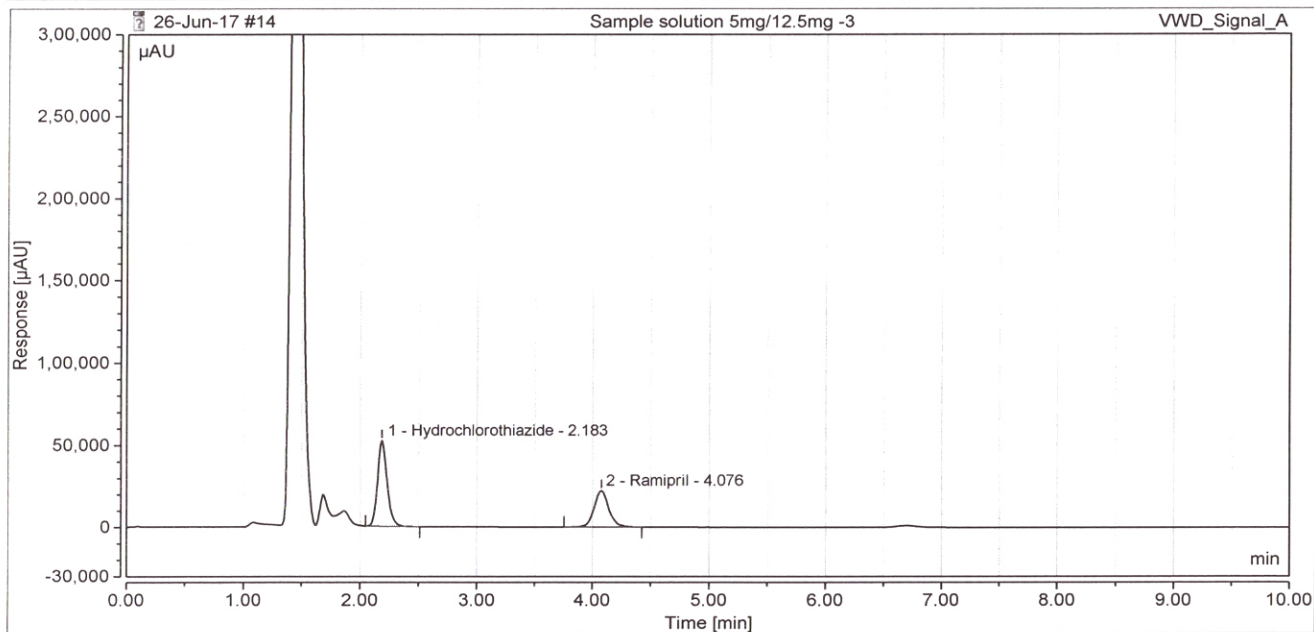
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Sample solution 5mg/12.5mg -3  
Vial Number: Vial:8  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 26-Jun-2017 21:41  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.183                       | 4931.611        | 60.21         | 3570         | 1.23           |
| 2      | Ramipril            | 4.076                       | 3258.585        | 39.79         | 5289         | 1.10           |
| Total: |                     |                             | 8190.195        |               |              |                |

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28-Jun-17

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28-Jun-17

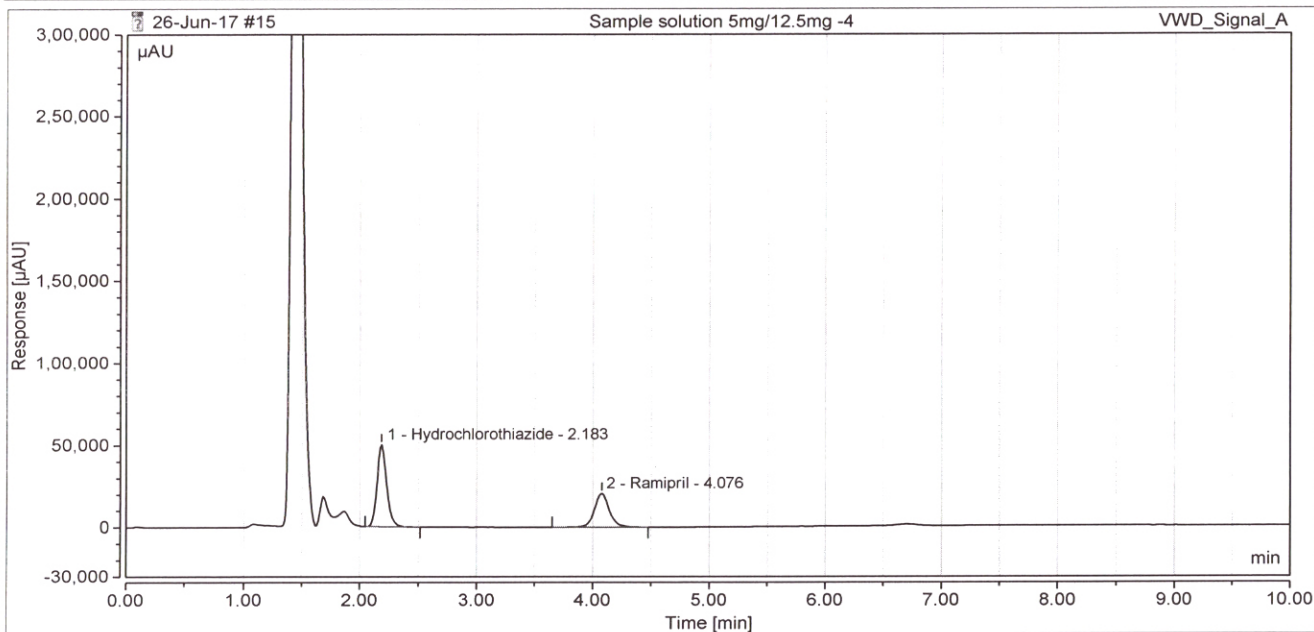
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Sample solution 5mg/12.5mg -4  
Vial Number: Vial:9  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 26-Jun-2017 21:52  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.183                       | 4733.245        | 60.67         | 3563         | 1.23           |
| 2      | Ramipril            | 4.076                       | 3068.377        | 39.33         | 5238         | 1.11           |
| Total: |                     |                             | 7801.622        |               |              |                |

64  
28-Jun-17

Signature  
28-Jun-17

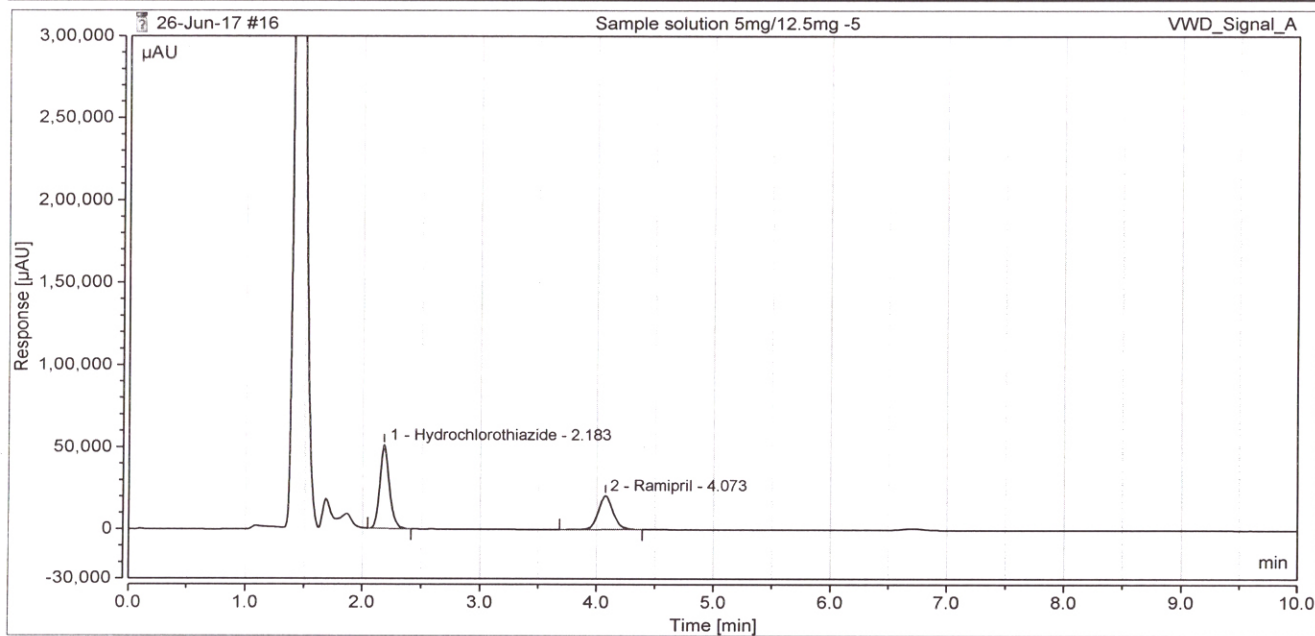


## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Sample solution 5mg/12.5mg -5       | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:10                             | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 26-Jun-2017 22:03                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

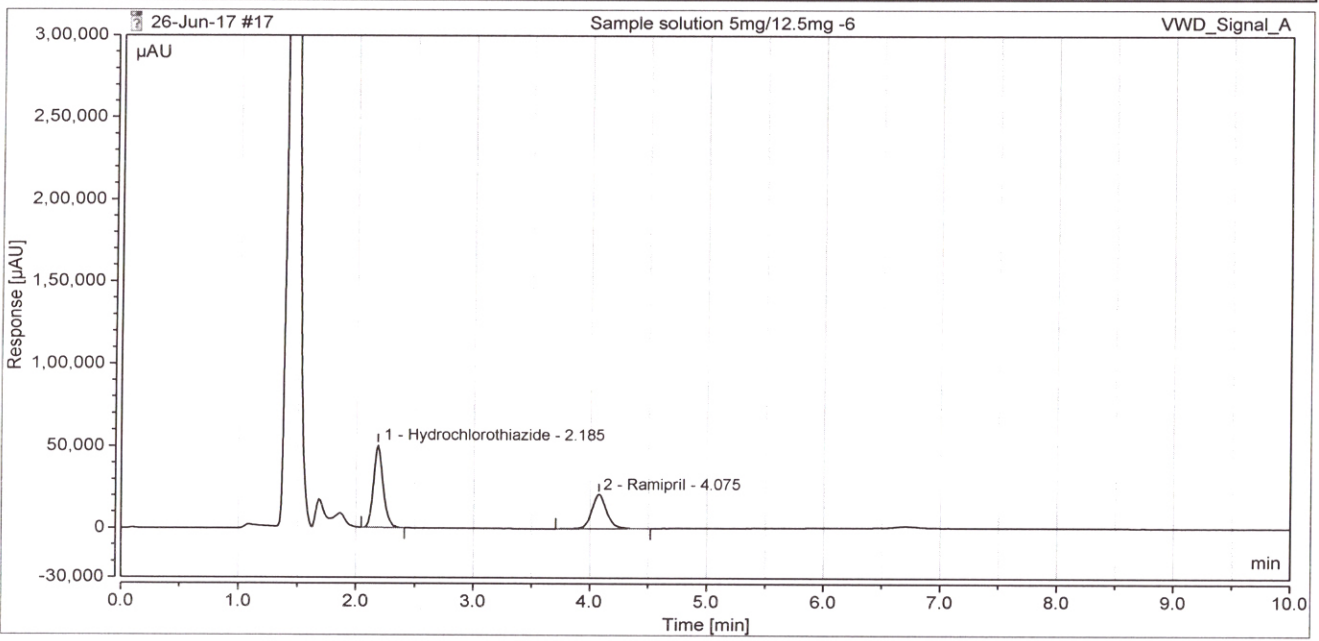
| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.183                       | 4815.842        | 61.37         | 3566         | 1.23           |
| 2      | Ramipril            | 4.073                       | 3031.977        | 38.63         | 5272         | 1.12           |
| Total: |                     |                             | 7847.819        |               |              |                |

(M)  
28-Jun-17

Q. Rajan  
28-Jun-17



| QbD Research and Development Pvt. Ltd |                                     |                                   |
|---------------------------------------|-------------------------------------|-----------------------------------|
| <b>Injection Details</b>              |                                     |                                   |
| Injection Name:                       | Sample solution 5mg/12.5mg -6       | Run Time (min): 10.00             |
| Vial Number:                          | Vial:11                             | Injection Volume: 10.00           |
| Injection Type:                       | Unknown                             | Channel: VWD_Signal_A             |
| Instrument Method:                    | Ramithiazide Dissolution HPLC-04_01 | Wavelength: 210                   |
| Processing Method:                    | PR Method_01                        | Instrument Name: QbD-INST-HPLC-04 |
| Injection Date/Time:                  | 26-Jun-2017 22:14                   | Sequence Name: 26-Jun-17          |
| User Name:                            | niteen gapat                        |                                   |
| <b>Chromatogram</b>                   |                                     |                                   |



| Integration Results |                     |                             |                 |               |              |                |
|---------------------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| No.                 | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
| 1                   | Hydrochlorothiazide | 2.185                       | 4750.895        | 60.54         | 3580         | 1.21           |
| 2                   | Ramipril            | 4.075                       | 3096.239        | 39.46         | 5234         | 1.13           |
| Total:              |                     |                             | 7847.134        |               |              |                |

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28-Jun-17

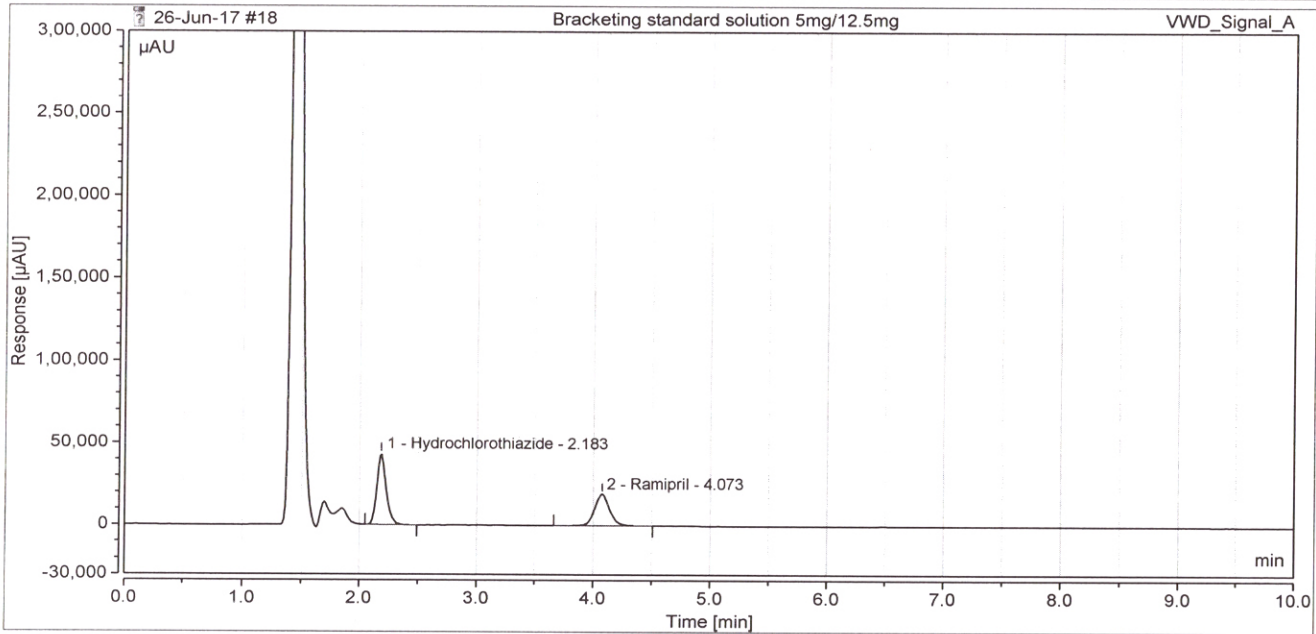
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29-Jun-17

## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                         |                   |                  |
|----------------------|-----------------------------------------|-------------------|------------------|
| Injection Name:      | Bracketing standard solution 5mg/12.5mg | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:2                                  | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                                 | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01     | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                            | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 26-Jun-2017 22:25                       | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                            |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.183                       | 4007.184        | 58.13         | 3774         | 1.25           |
| 2      | Ramipril            | 4.073                       | 2886.875        | 41.87         | 5238         | 1.11           |
| Total: |                     |                             | 6894.059        |               |              |                |

61  
28-Jun-17

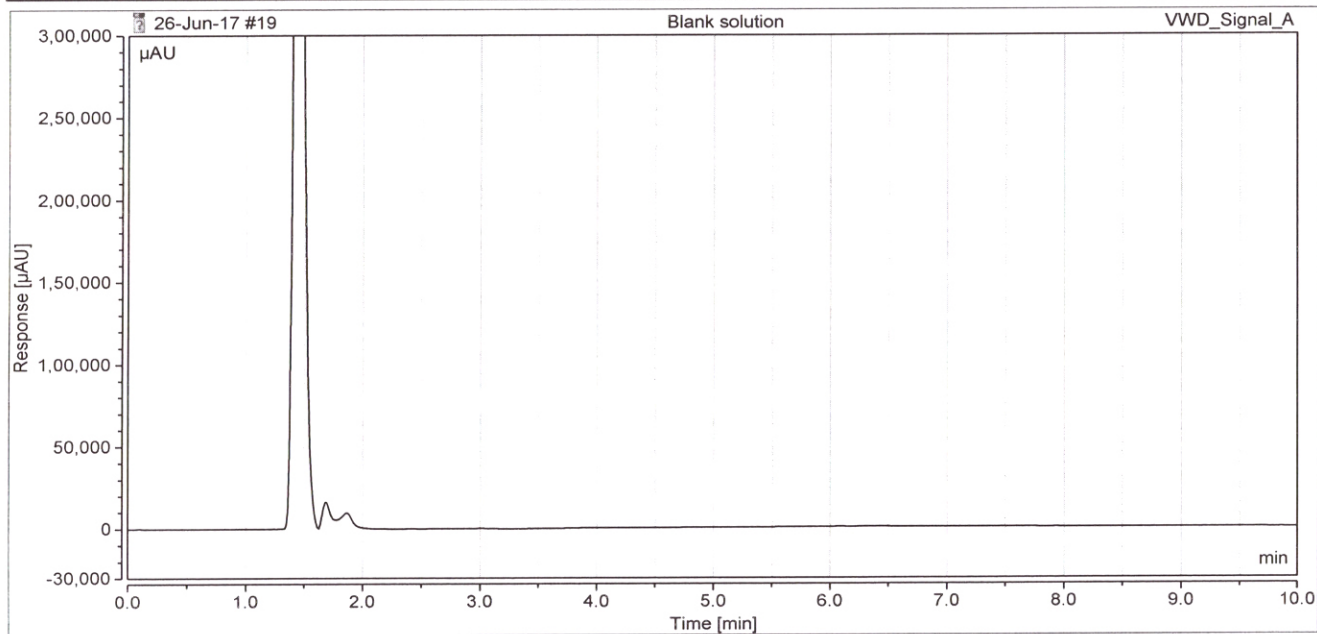
28-Jun-17

## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Blank solution                      | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:1                              | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 26-Jun-2017 22:36                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|-----------|-----------------------------|-----------------|---------------|--------------|----------------|
| Total: |           |                             | 0.000           |               |              |                |

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28-Jun-17[Signature]  
28-Jun-17



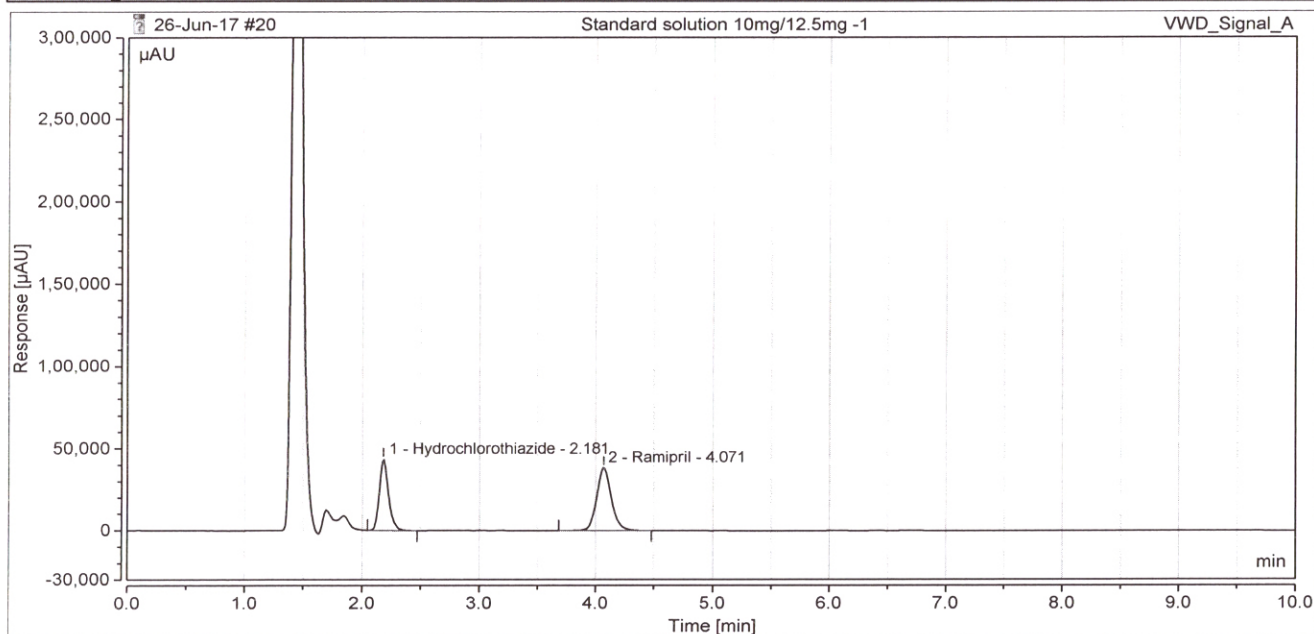
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Standard solution 10mg/12.5mg -1  
Vial Number: Vial:3  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 26-Jun-2017 22:47  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.181                       | 3997.841        | 41.39         | 3836         | 1.27           |
| 2      | Ramipril            | 4.071                       | 5660.518        | 58.61         | 5256         | 1.12           |
| Total: |                     |                             | 9658.359        |               |              |                |

Signature  
28-Jun-17

Signature  
28-Jun-17

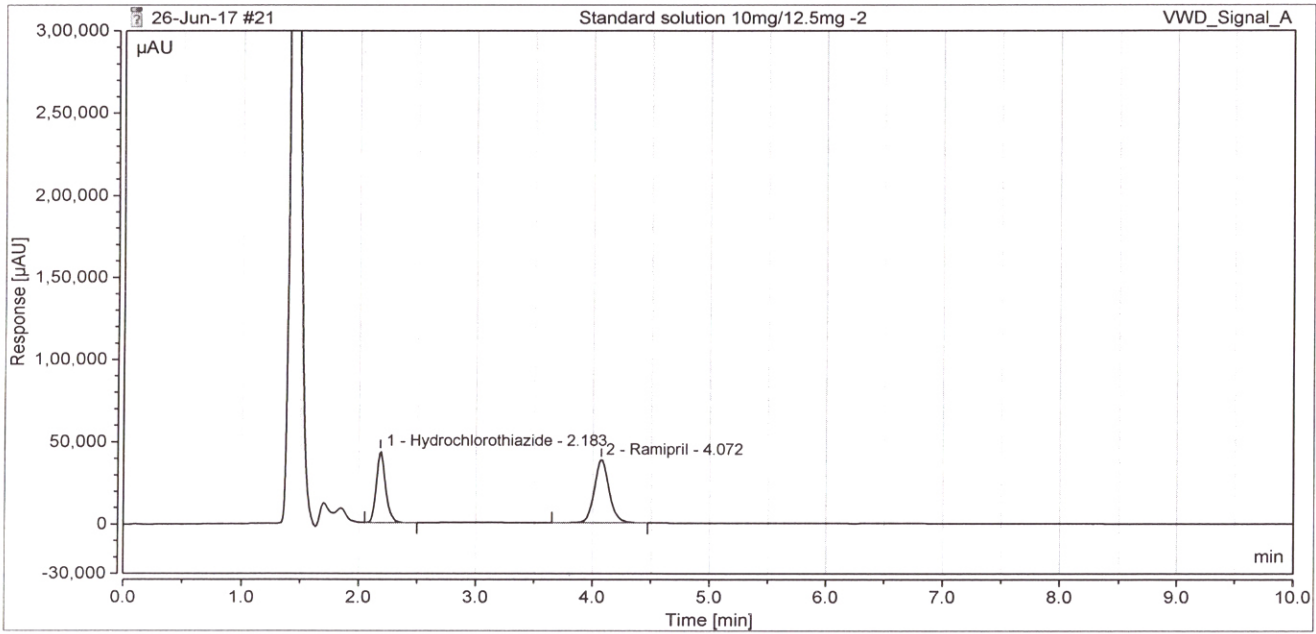


## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Standard solution 10mg/12.5mg -2    | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:3                              | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 26-Jun-2017 22:58                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.183                       | 3996.372        | 41.38         | 3839         | 1.27           |
| 2      | Ramipril            | 4.072                       | 5660.286        | 58.62         | 5244         | 1.13           |
| Total: |                     |                             | 9656.659        |               |              |                |

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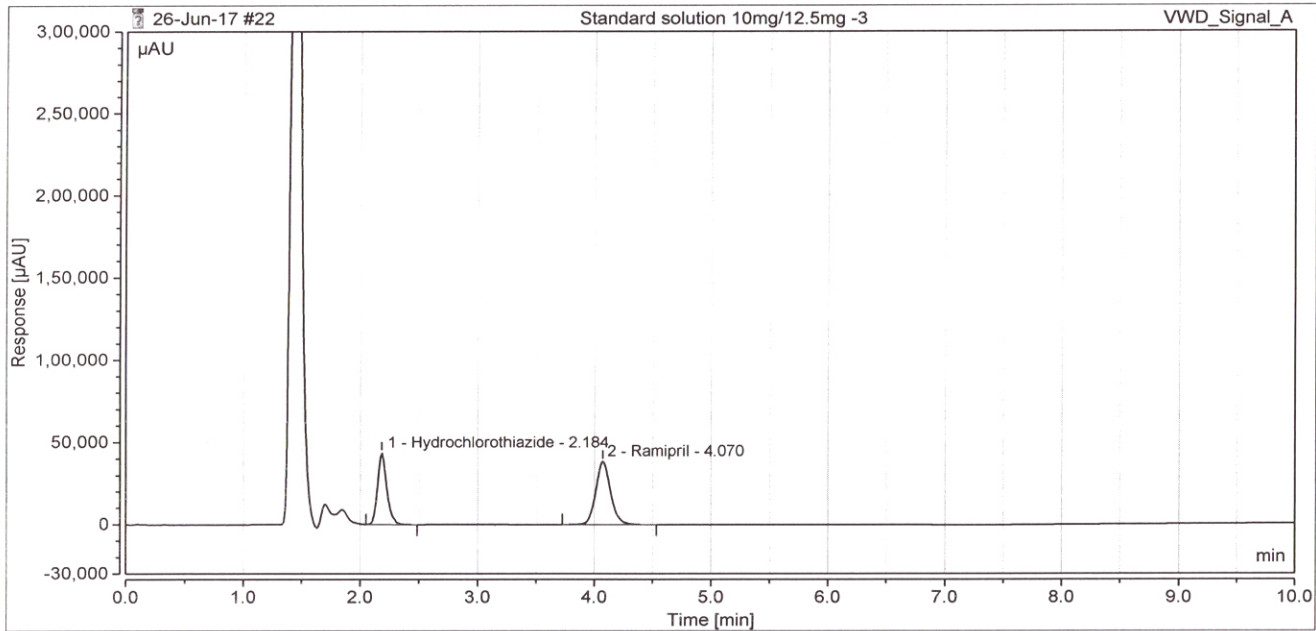
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Standard solution 10mg/12.5mg -3  
Vial Number: Vial:3  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 26-Jun-2017 23:08  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.184                       | 3999.992        | 41.41         | 3841         | 1.23           |
| 2      | Ramipril            | 4.070                       | 5659.478        | 58.59         | 5243         | 1.14           |
| Total: |                     |                             | 9659.470        |               |              |                |

6/28  
28-Jun-17

28-Jun-17

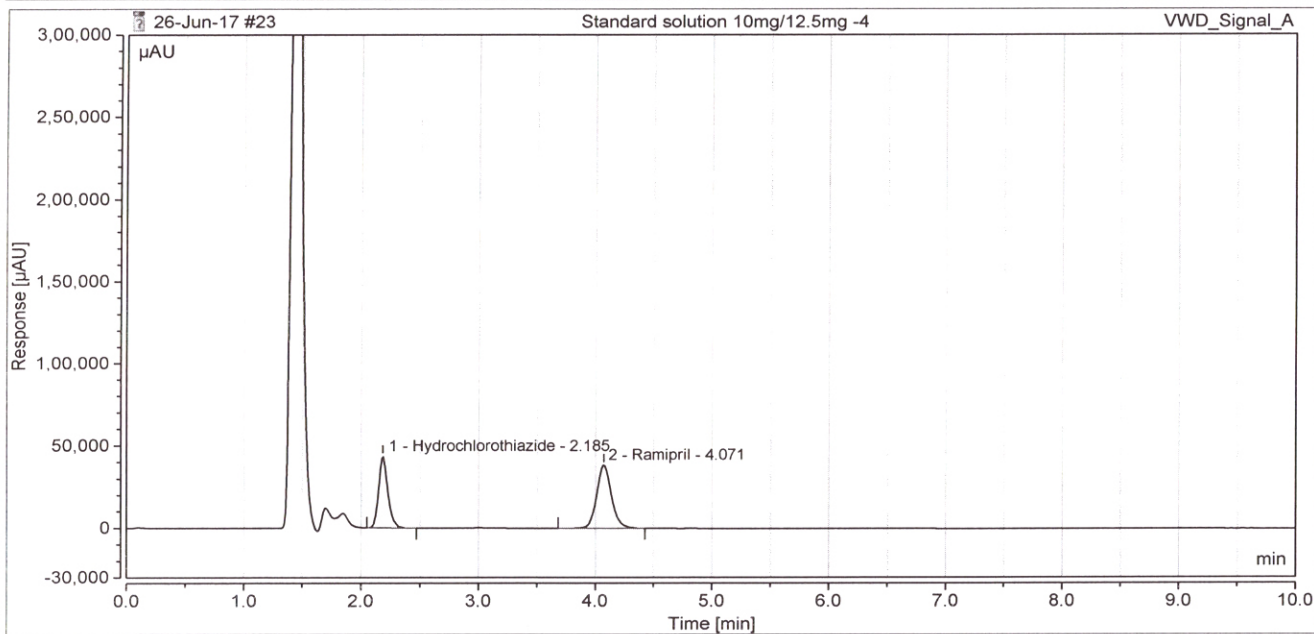
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Standard solution 10mg/12.5mg -4  
Vial Number: Vial:3  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 26-Jun-2017 23:19  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.185                       | 3997.232        | 41.44         | 3842         | 1.22           |
| 2      | Ramipril            | 4.071                       | 5648.702        | 58.56         | 5246         | 1.13           |
| Total: |                     |                             | 9645.934        |               |              |                |

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28-Jun-17

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29-Jun-17

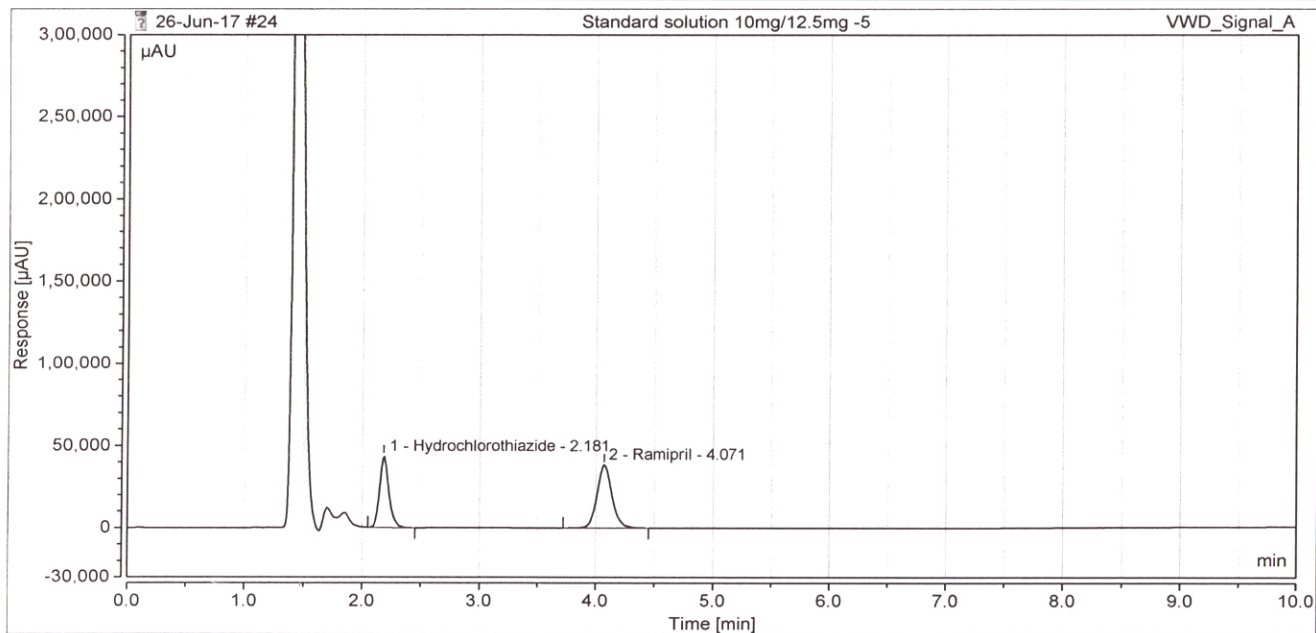


## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                      |                   |                  |
|----------------------|--------------------------------------|-------------------|------------------|
| Injection Name:      | Standard solution 10mg/12.5mg -5     | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:3                               | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                              | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_ 01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_ 01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 26-Jun-2017 23:30                    | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                         |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>µAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.181                       | 3994.448        | 41.42         | 3821         | 1.27           |
| 2      | Ramipril            | 4.071                       | 5649.642        | 58.58         | 5229         | 1.13           |
| Total: |                     |                             | 9644.090        |               |              |                |

GP  
28-Jun-17

GP  
28-Jun-17



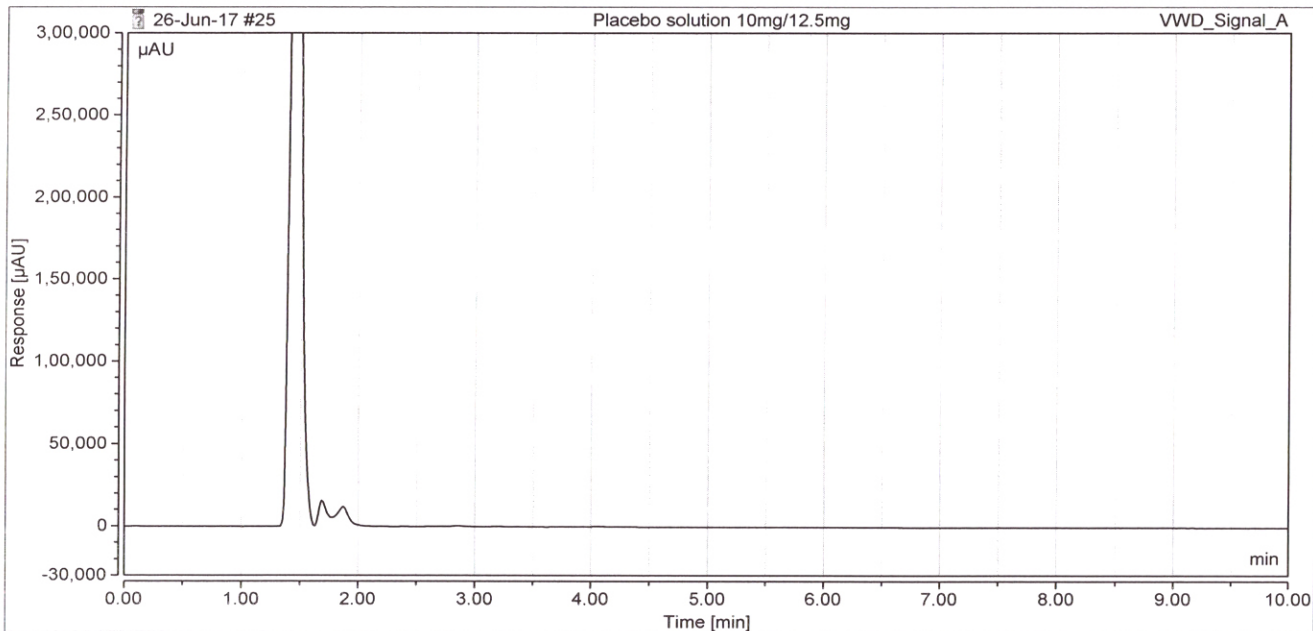
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Placebo solution 10mg/12.5mg  
Vial Number: Vial:12  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 26-Jun-2017 23:41  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|-----------|-----------------------------|-----------------|---------------|--------------|----------------|
| Total: |           |                             | 0.000           |               |              |                |

Me  
28-Jun-17

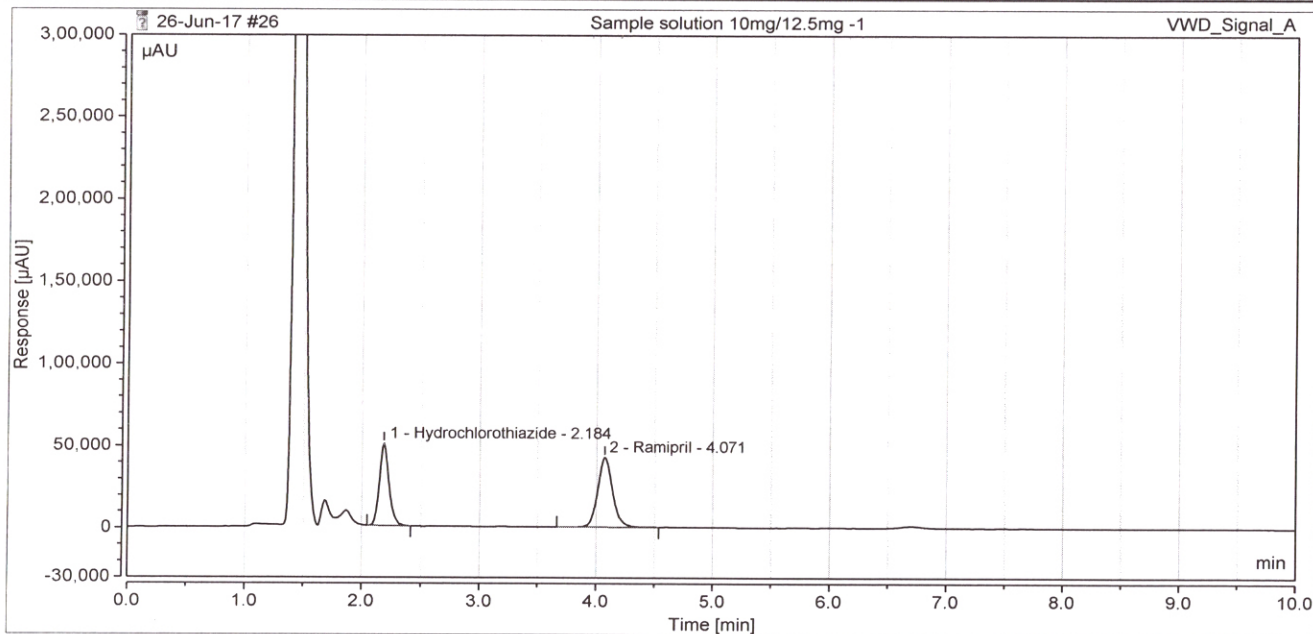
Q. Ryan  
29-Jun-17

## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Sample solution 10mg/12.5mg -1      | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:13                             | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 26-Jun-2017 23:52                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.184                       | 4744.433        | 43.16         | 3584         | 1.21           |
| 2      | Ramipril            | 4.071                       | 6247.954        | 56.84         | 5234         | 1.14           |
| Total: |                     |                             | 10992.387       |               |              |                |

28-Jun-17

28-Jun-17

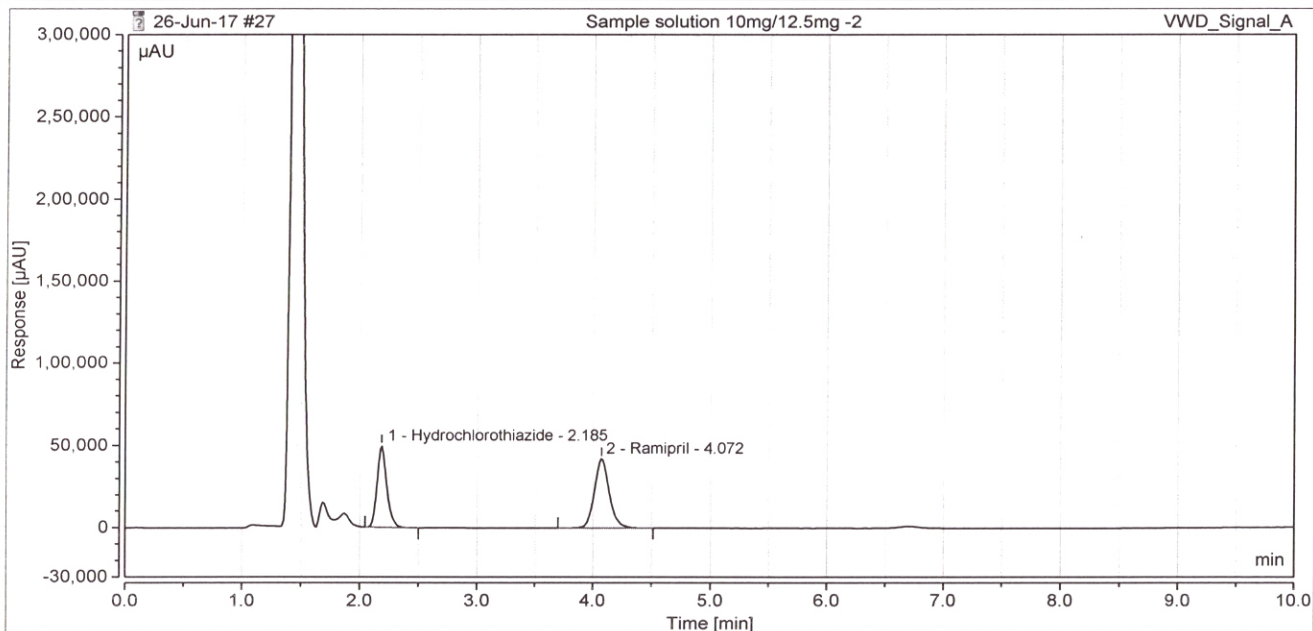
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Sample solution 10mg/12.5mg -2  
Vial Number: Vial:14  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 27-Jun-2017 00:03  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>µAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.185                       | 4718.604        | 43.16         | 3573         | 1.20           |
| 2      | Ramipril            | 4.072                       | 6213.371        | 56.84         | 5227         | 1.13           |
| Total: |                     |                             | 10931.976       |               |              |                |

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28-Jun-17

*[Signature]*  
29-Jun-17

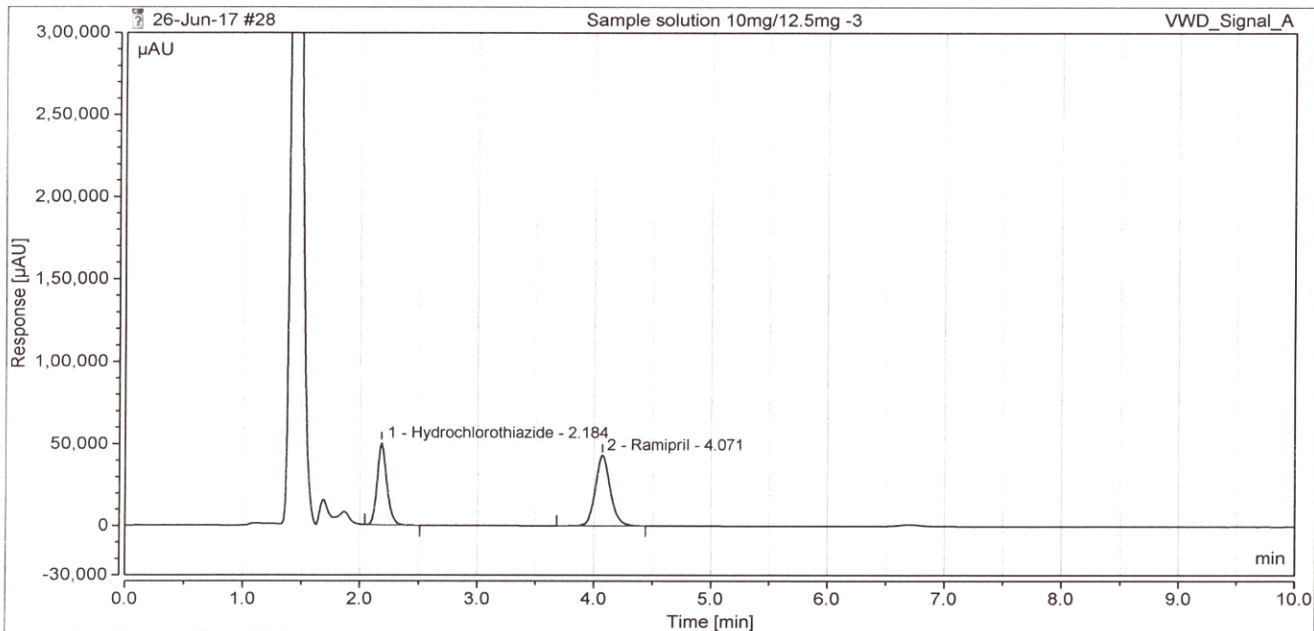


## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Sample solution 10mg/12.5mg -3      | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:15                             | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 00:14                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.184                       | 4764.531        | 42.84         | 3561         | 1.21           |
| 2      | Ramipril            | 4.071                       | 6356.222        | 57.16         | 5218         | 1.14           |
| Total: |                     |                             | 11120.753       |               |              |                |

M  
28-Jun-17

29-Jun-17

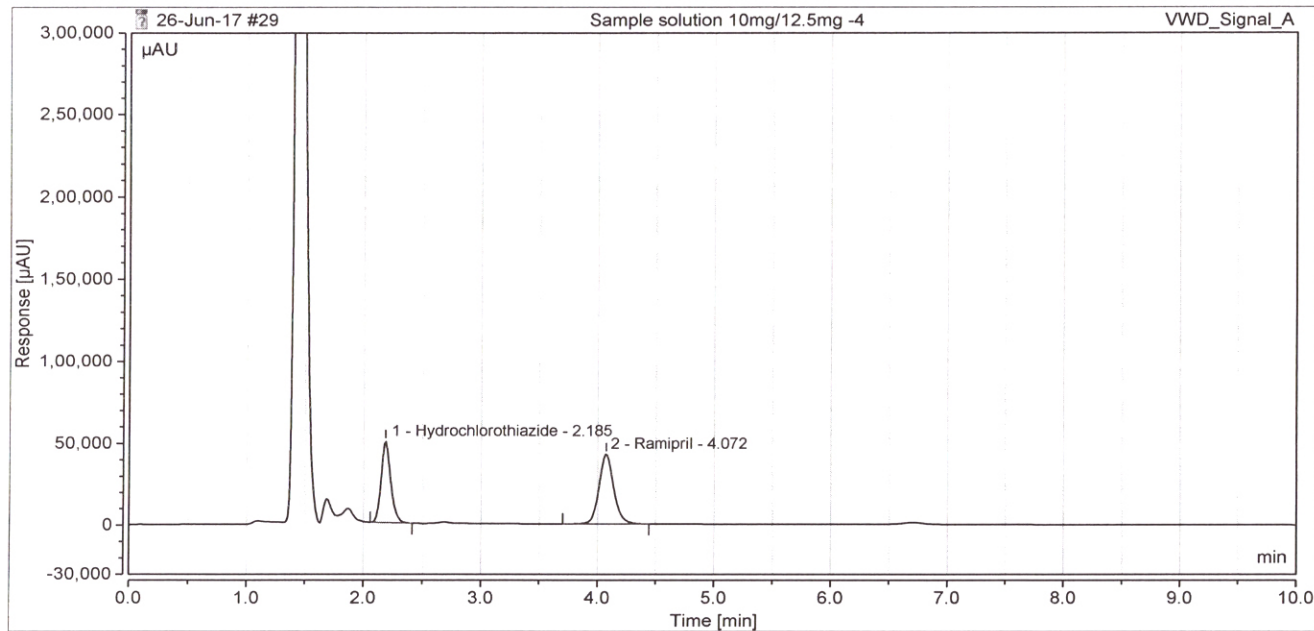


## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Sample solution 10mg/12.5mg -4      | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:16                             | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 00:25                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.185                       | 4717.303        | 42.81         | 3578         | 1.20           |
| 2      | Ramipril            | 4.072                       | 6301.435        | 57.19         | 5219         | 1.12           |
| Total: |                     |                             | 11018.738       |               |              |                |

GH  
28-Jun-17

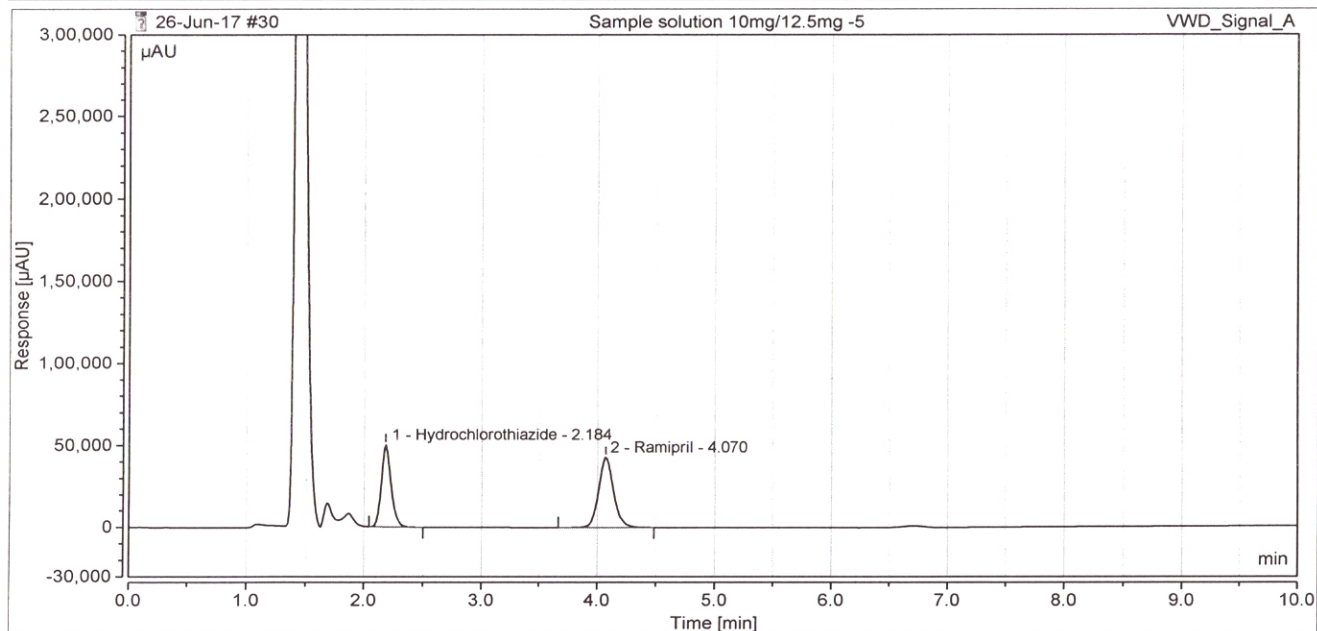
GH  
28-Jun-17

## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Sample solution 10mg/12.5mg -5      | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:17                             | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 00:36                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.184                       | 4754.034        | 43.00         | 3555         | 1.22           |
| 2      | Ramipril            | 4.070                       | 6300.724        | 57.00         | 5209         | 1.13           |
| Total: |                     |                             | 11054.758       |               |              |                |

NG  
28-Jun-17

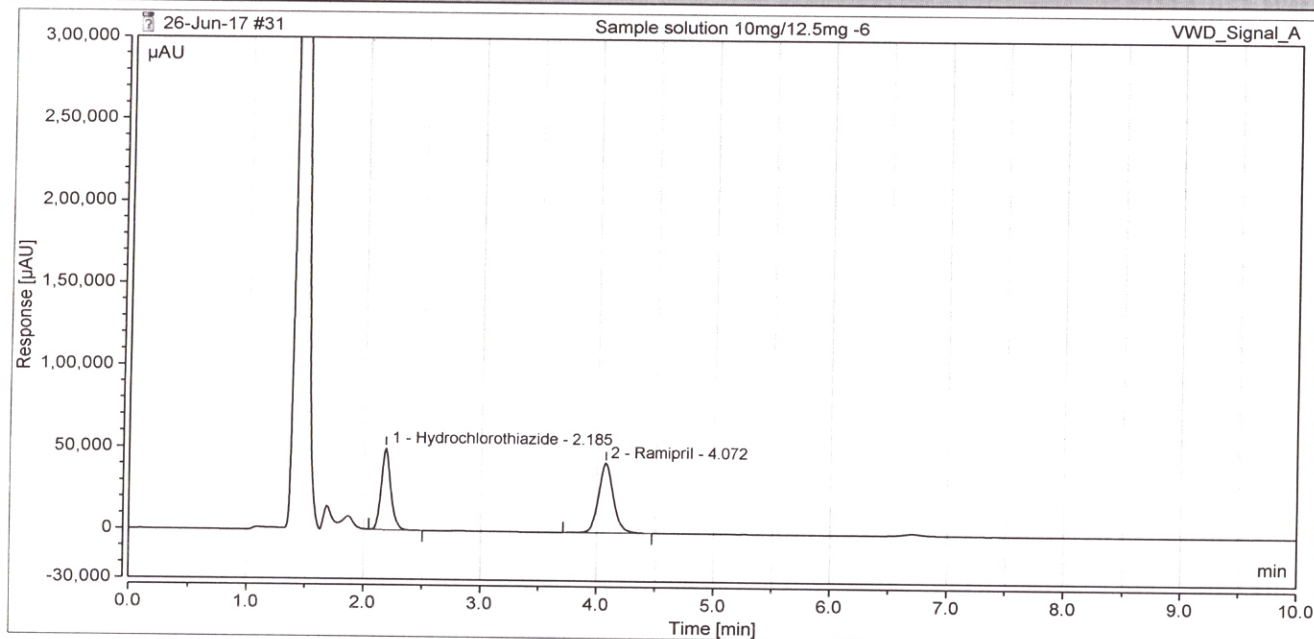
NG  
29-Jun-17

## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Sample solution 10mg/12.5mg -6      | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:18                             | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 00:47                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.185                       | 4748.065        | 43.08         | 3564         | 1.20           |
| 2      | Ramipril            | 4.072                       | 6274.220        | 56.92         | 5207         | 1.12           |
| Total: |                     |                             | 11022.284       |               |              |                |

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28-Jun-17

*[Signature]*  
28-Jun-17

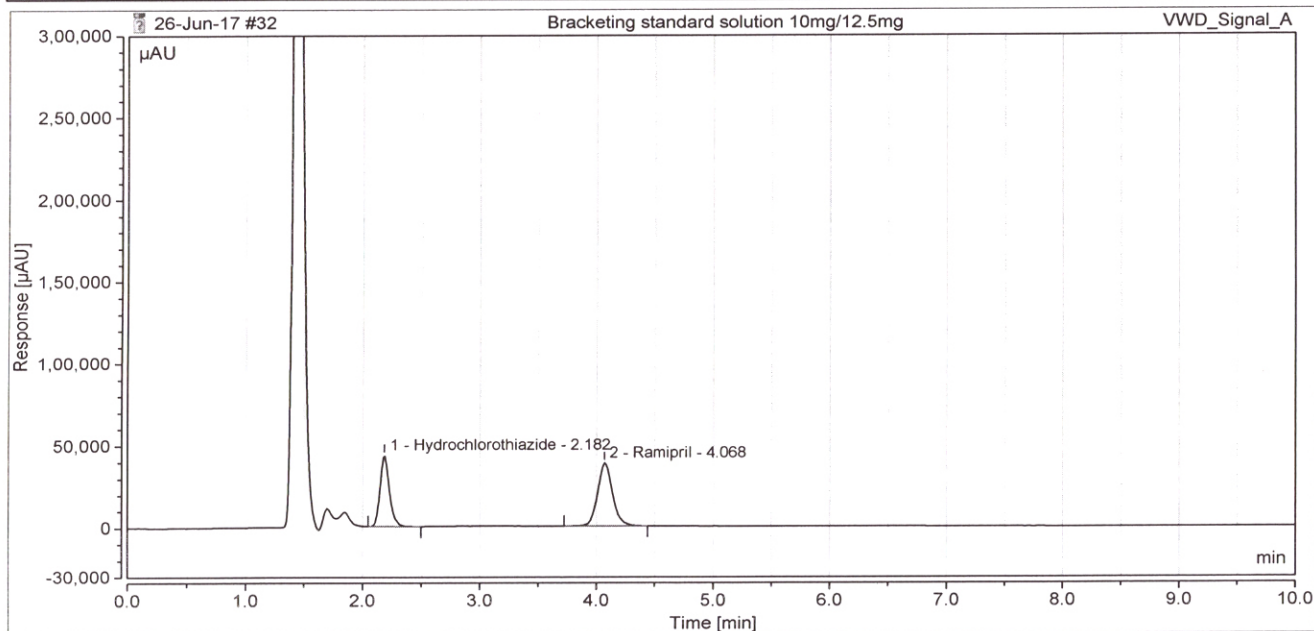


## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                          |                   |                  |
|----------------------|------------------------------------------|-------------------|------------------|
| Injection Name:      | Bracketing standard solution 10mg/12.5mg | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:3                                   | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                                  | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01      | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                             | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 00:58                        | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                             |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.182                       | 4003.413        | 41.45         | 3795         | 1.26           |
| 2      | Ramipril            | 4.068                       | 5656.086        | 58.55         | 5211         | 1.14           |
| Total: |                     |                             | 9659.499        |               |              |                |

64  
28-Jun-17

Signature  
28-Jun-17

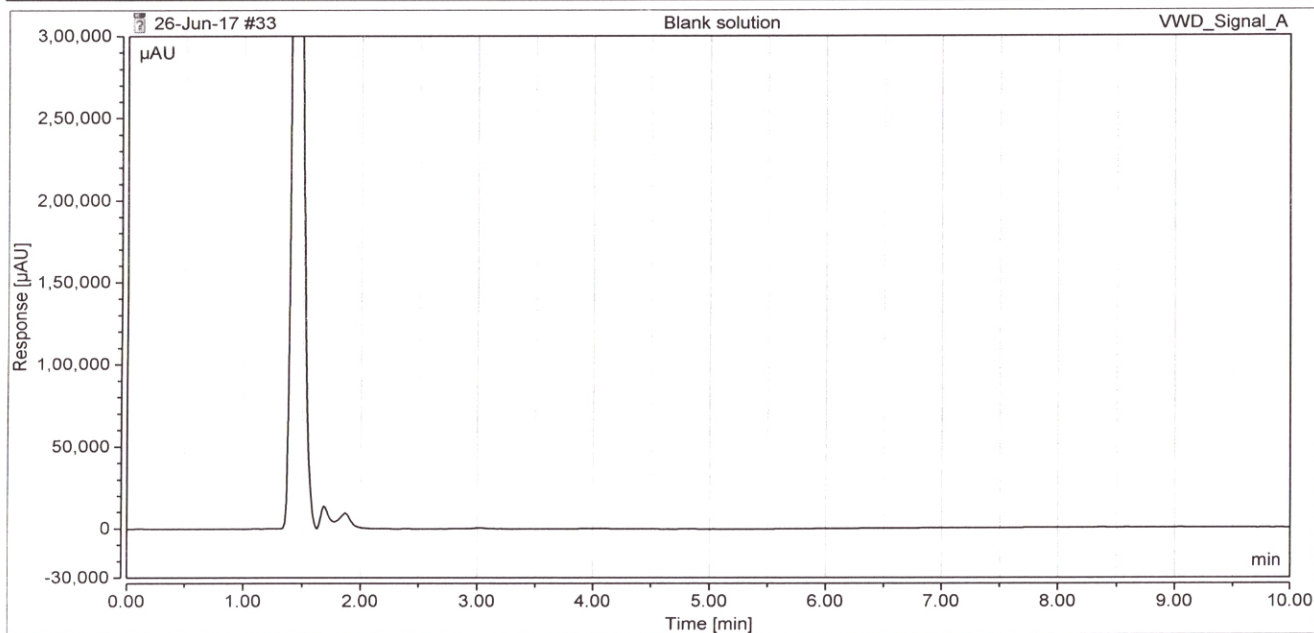


## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Blank solution                      | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:1                              | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 01:09                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name | Retention (DETECTED)<br>min | Area<br>µAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|-----------|-----------------------------|-----------------|---------------|--------------|----------------|
| Total: |           |                             | 0.000           |               |              |                |

GH  
28-Jun-17

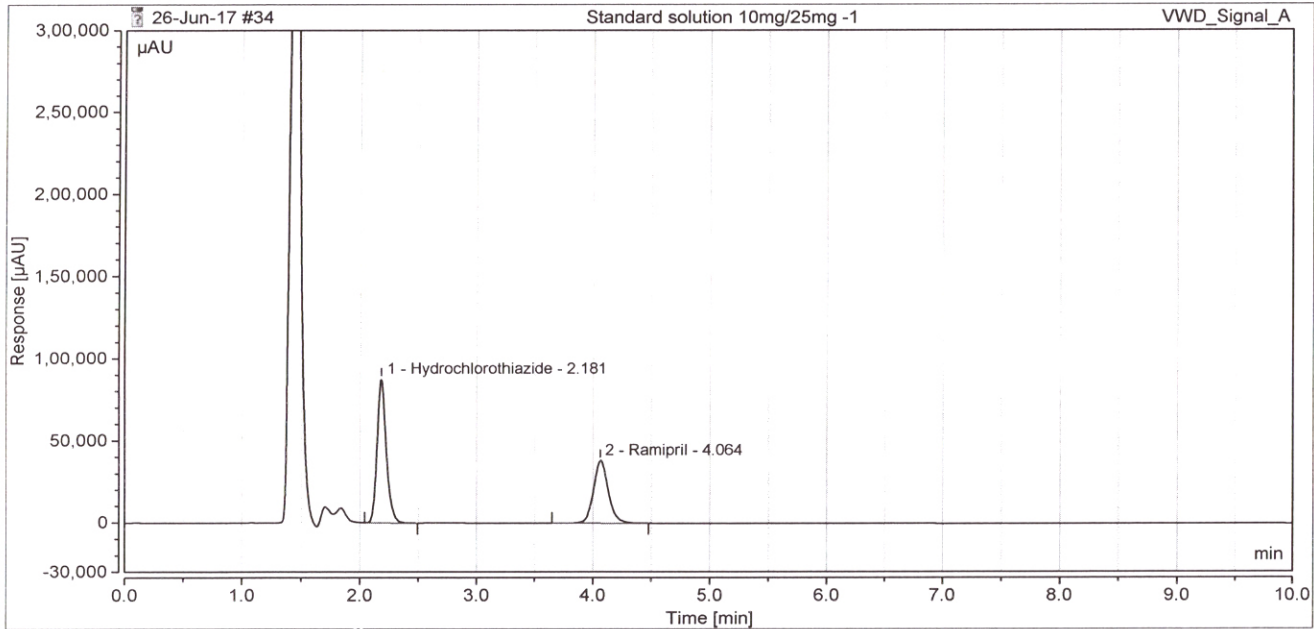
GH  
28-Jun-17

## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Standard solution 10mg/25mg -1      | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:4                              | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 01:19                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.181                       | 8018.445        | 58.57         | 3864         | 1.26           |
| 2      | Ramipril            | 4.064                       | 5671.704        | 41.43         | 5187         | 1.14           |
| Total: |                     |                             | 13690.150       |               |              |                |

Me  
26-Jun-17

Regal  
27-Jun-17

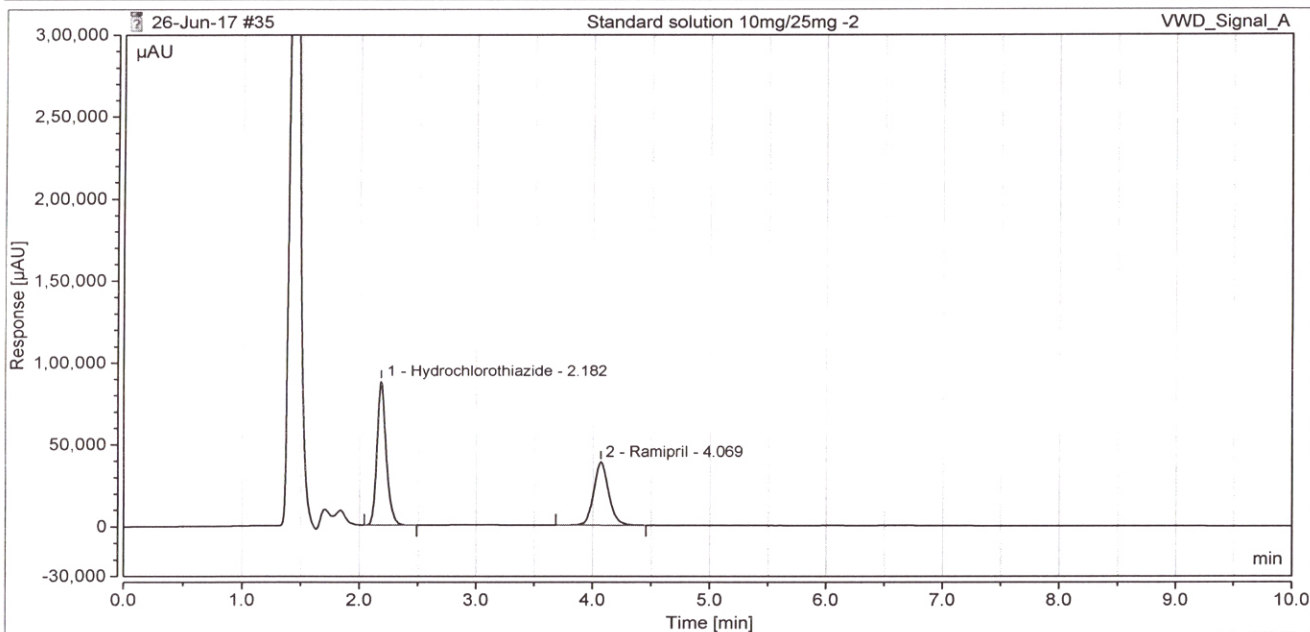
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Standard solution 10mg/25mg -2  
Vial Number: Vial:4  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_ 01  
Processing Method: PR Method\_ 01  
Injection Date/Time: 27-Jun-2017 01:30  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.182                       | 8039.233        | 58.65         | 3872         | 1.26           |
| 2      | Ramipril            | 4.069                       | 5666.834        | 41.35         | 5211         | 1.12           |
| Total: |                     |                             | 13706.067       |               |              |                |

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26-Jun-17

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26-Jun-17



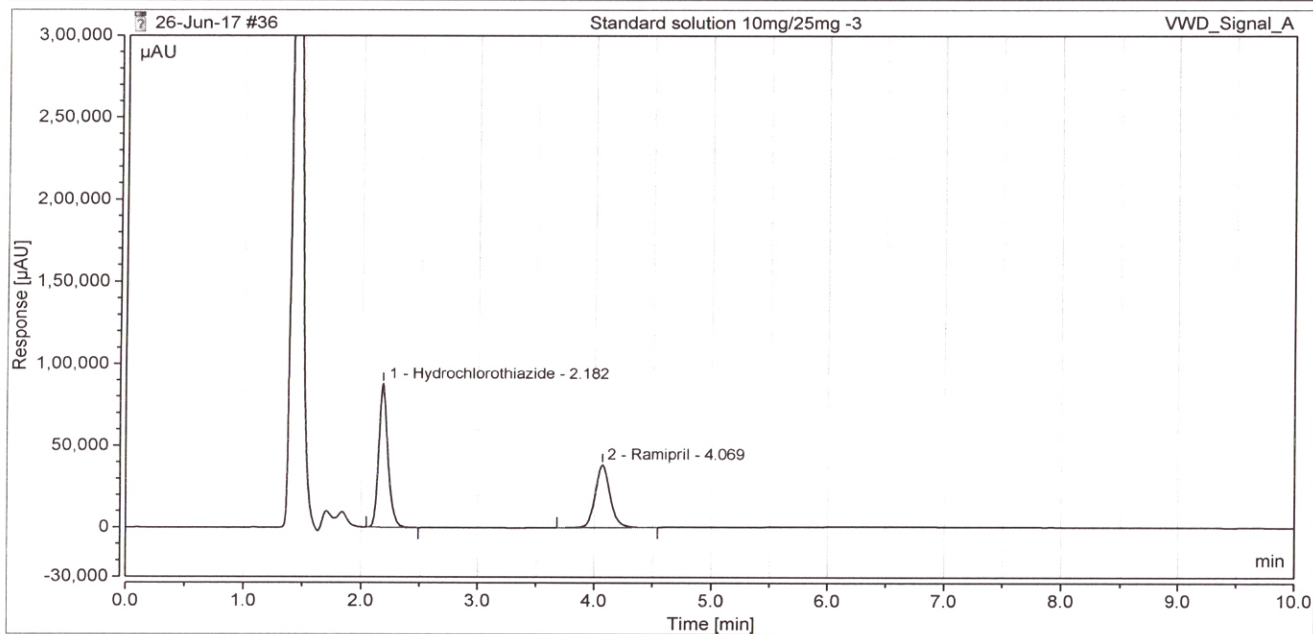
# QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Standard solution 10mg/25mg -3  
 Vial Number: Vial:4  
 Injection Type: Unknown  
 Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
 Processing Method: PR Method\_01  
 Injection Date/Time: 27-Jun-2017 01:41  
 User Name: niteen gapat

Run Time (min): 10.00  
 Injection Volume: 10.00  
 Channel: VWD\_Signal\_A  
 Wavelength: 210  
 Instrument Name: QbD-INST-HPLC-04  
 Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.182                       | 8030.953        | 58.55         | 3880         | 1.25           |
| 2      | Ramipril            | 4.069                       | 5685.921        | 41.45         | 5198         | 1.11           |
| Total: |                     |                             | 13716.874       |               |              |                |

MR  
26-Jun-17

MR  
27-Jun-17

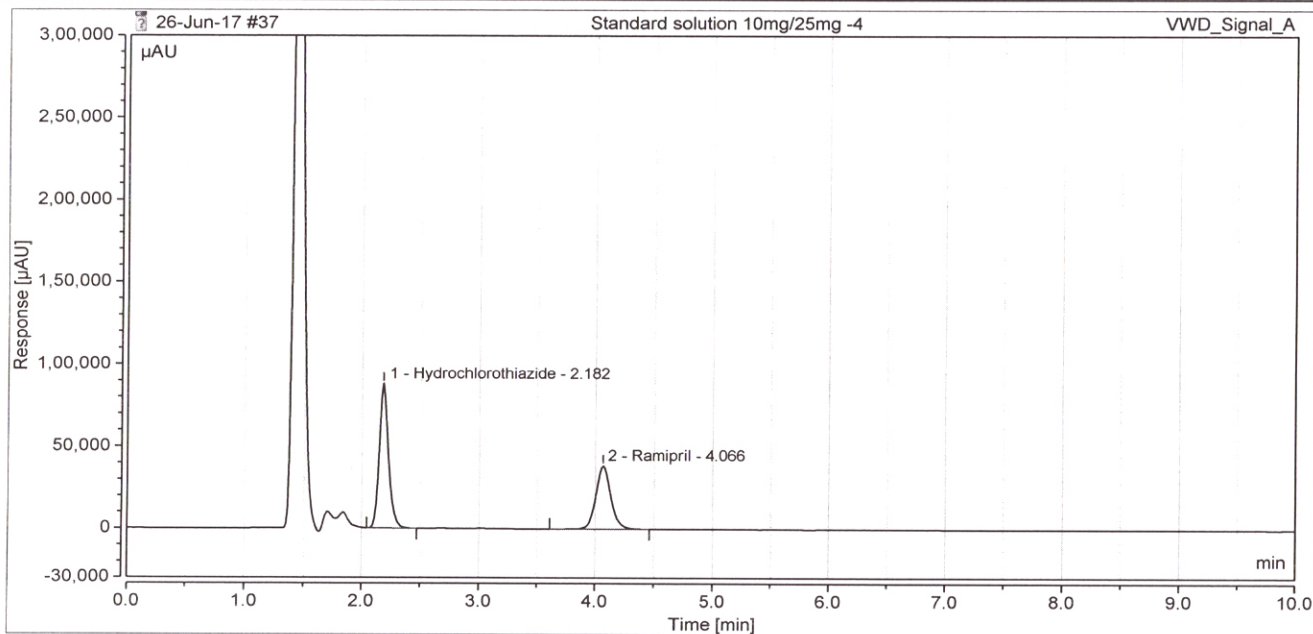
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Standard solution 10mg/25mg -4  
Vial Number: Vial:4  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 27-Jun-2017 01:52  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.182                       | 8037.891        | 58.61         | 3876         | 1.25           |
| 2      | Ramipril            | 4.066                       | 5676.504        | 41.39         | 5198         | 1.13           |
| Total: |                     |                             | 13714.396       |               |              |                |

QbD  
26-Jun-17

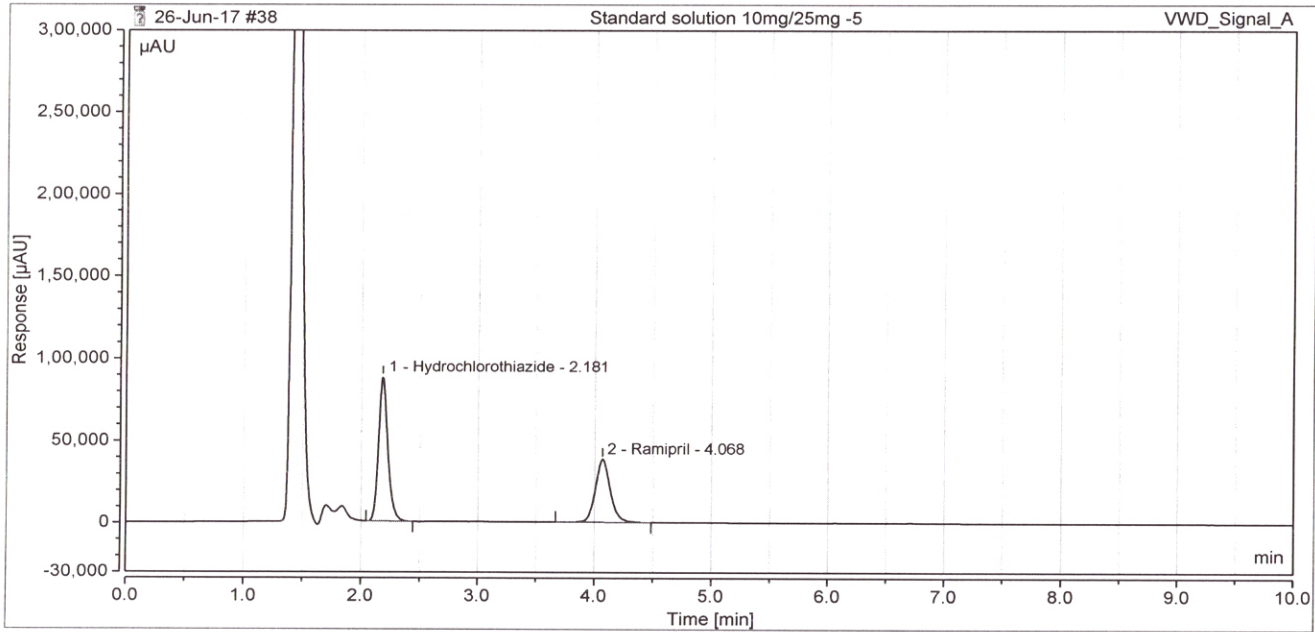
QbD  
26-Jun-17

## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Standard solution 10mg/25mg -5      | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:4                              | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 02:03                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>µAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.181                       | 8032.151        | 58.62         | 3867         | 1.27           |
| 2      | Ramipril            | 4.068                       | 5670.239        | 41.38         | 5199         | 1.12           |
| Total: |                     |                             | 13702.390       |               |              |                |

CA  
26-Jun-17Signature  
26-Jun-17

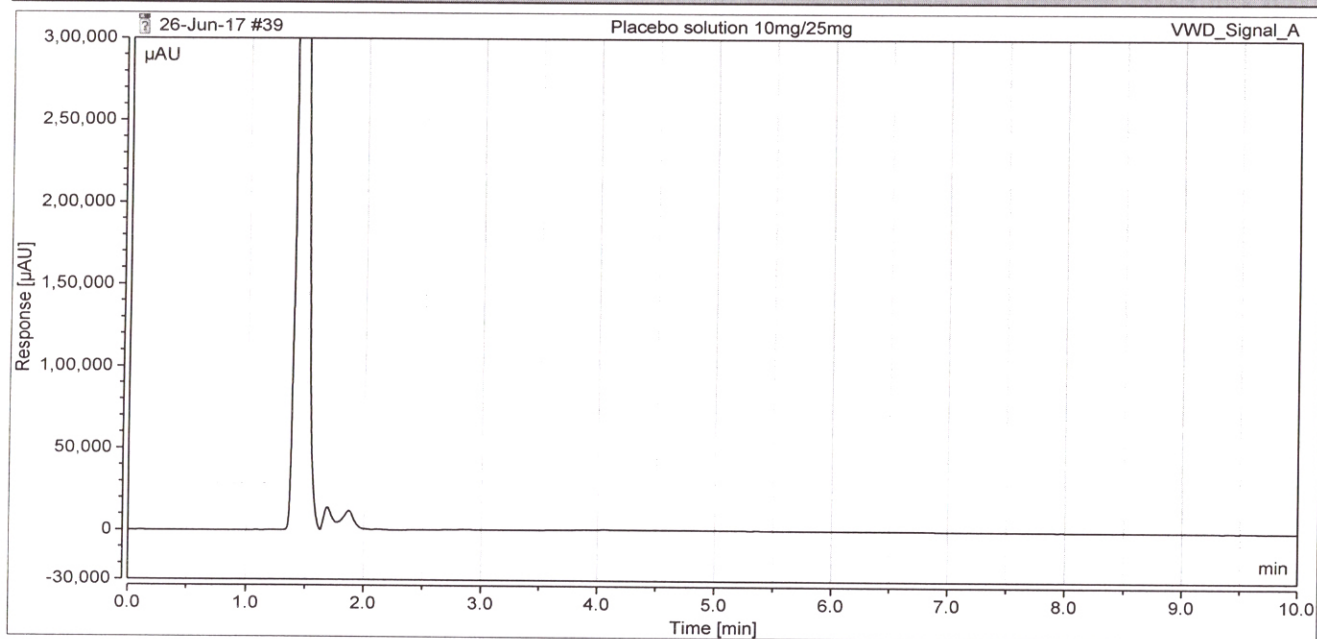


## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Placebo solution 10mg/25mg          | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:19                             | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 02:14                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|-----------|-----------------------------|-----------------|---------------|--------------|----------------|
| Total: |           |                             | 0.000           |               |              |                |

61  
26-Jun-17

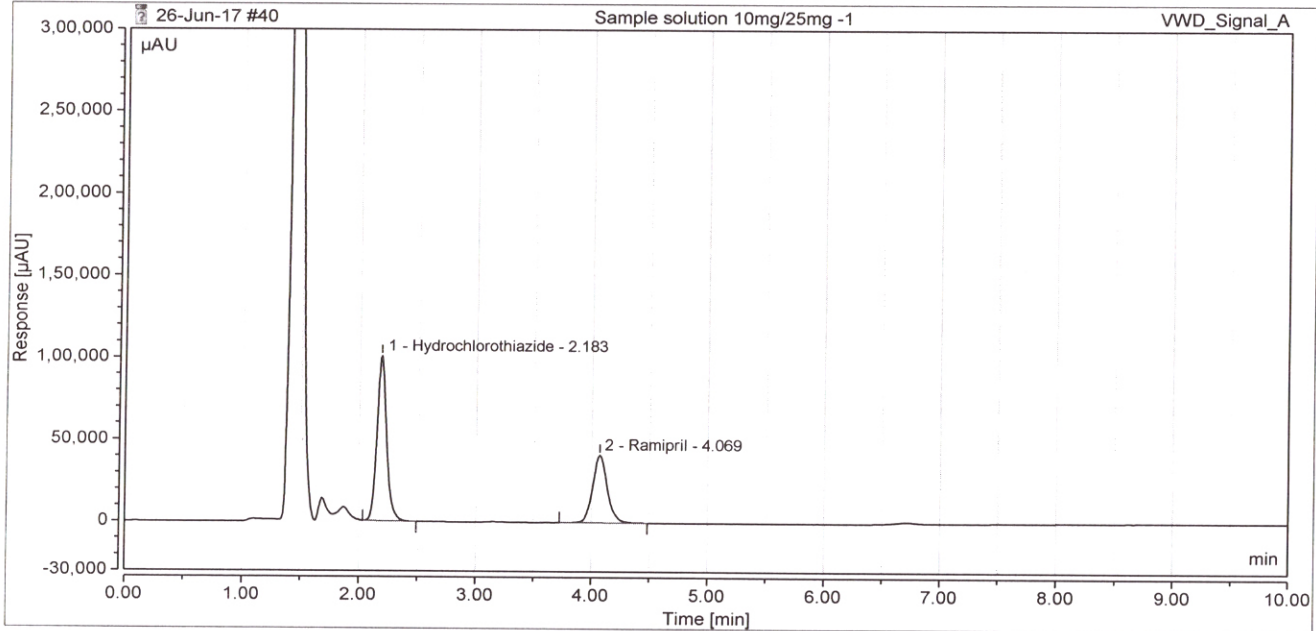
26-Jun-17

## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Sample solution 10mg/25mg -1        | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:20                             | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 02:25                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.183                       | 9646.399        | 61.42         | 3535         | 1.24           |
| 2      | Ramipril            | 4.069                       | 6057.965        | 38.58         | 5214         | 1.13           |
| Total: |                     |                             | 15704.365       |               |              |                |

610  
26-Jun-17

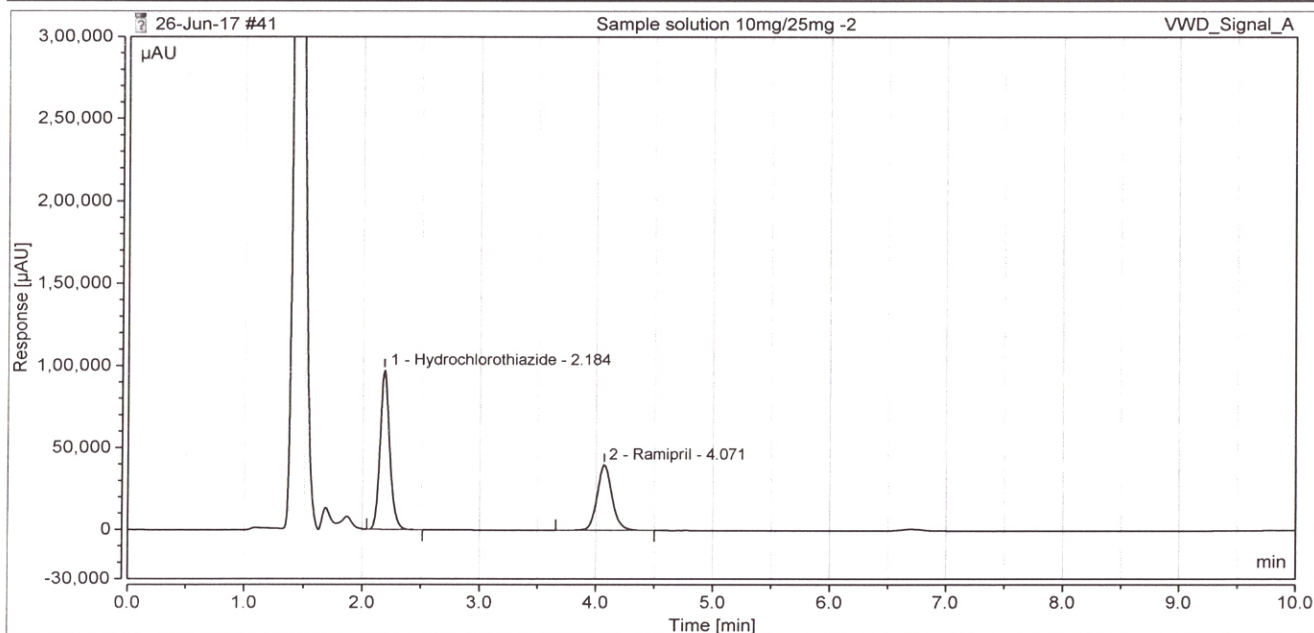
610  
26-Jun-17

## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Sample solution 10mg/25mg -2        | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:21                             | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 02:36                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.184                       | 9248.398        | 60.95         | 3562         | 1.22           |
| 2      | Ramipril            | 4.071                       | 5925.331        | 39.05         | 5209         | 1.13           |
| Total: |                     |                             | 15173.729       |               |              |                |

GP  
26-Jun-17

GP  
26-Jun-17



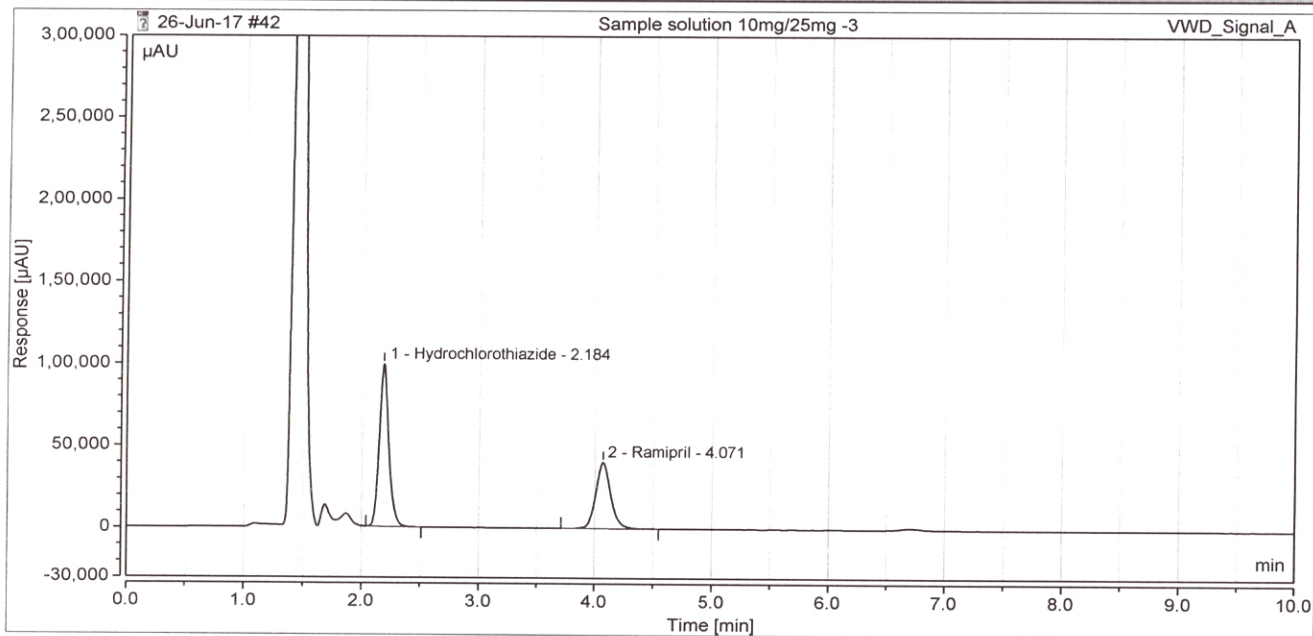
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Sample solution 10mg/25mg -3  
Vial Number: Vial:22  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 27-Jun-2017 02:47  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.184                       | 9429.118        | 61.34         | 3558         | 1.22           |
| 2      | Ramipril            | 4.071                       | 5943.174        | 38.66         | 5215         | 1.12           |
| Total: |                     |                             | 15372.292       |               |              |                |

(H)  
26-Jun-17

26-Jun-17

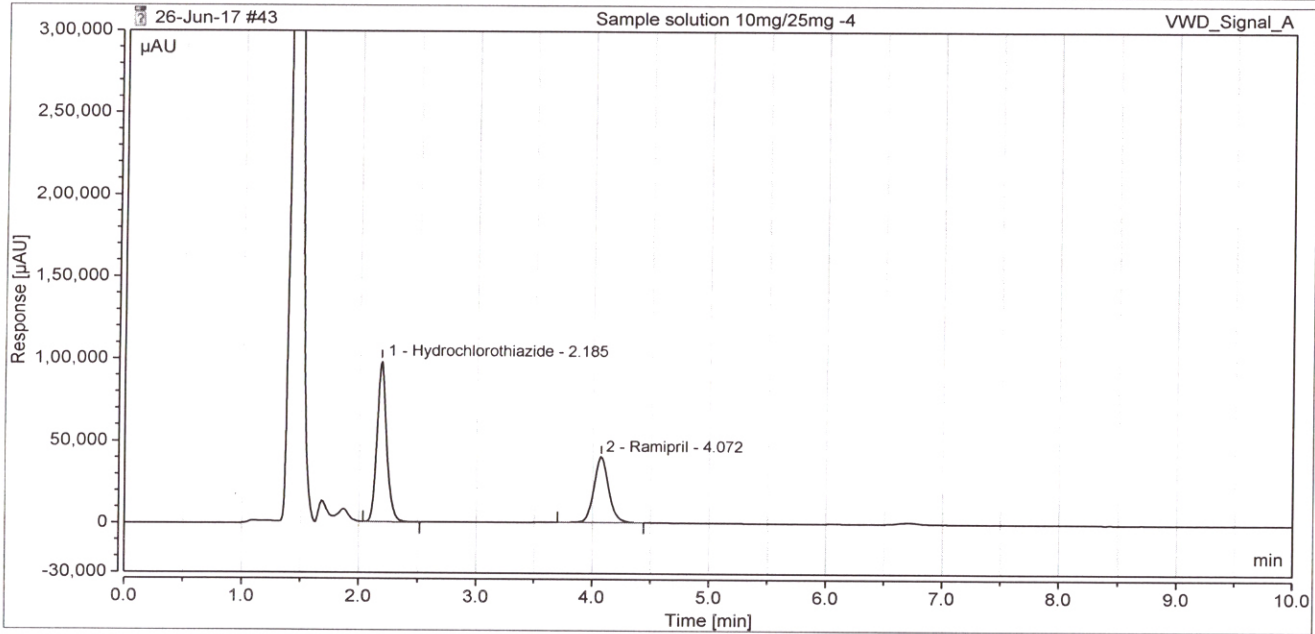
## QbD Research and Development Pvt. Ltd

## Injection Details

Injection Name: Sample solution 10mg/25mg -4  
Vial Number: Vial:23  
Injection Type: Unknown  
Instrument Method: Ramithiazide Dissolution HPLC-04\_01  
Processing Method: PR Method\_01  
Injection Date/Time: 27-Jun-2017 02:58  
User Name: niteen gapat

Run Time (min): 10.00  
Injection Volume: 10.00  
Channel: VWD\_Signal\_A  
Wavelength: 210  
Instrument Name: QbD-INST-HPLC-04  
Sequence Name: 26-Jun-17

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>µAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.185                       | 9322.973        | 61.13         | 3558         | 1.21           |
| 2      | Ramipril            | 4.072                       | 5928.674        | 38.87         | 5224         | 1.12           |
| Total: |                     |                             | 15251.648       |               |              |                |

26-Jun-17

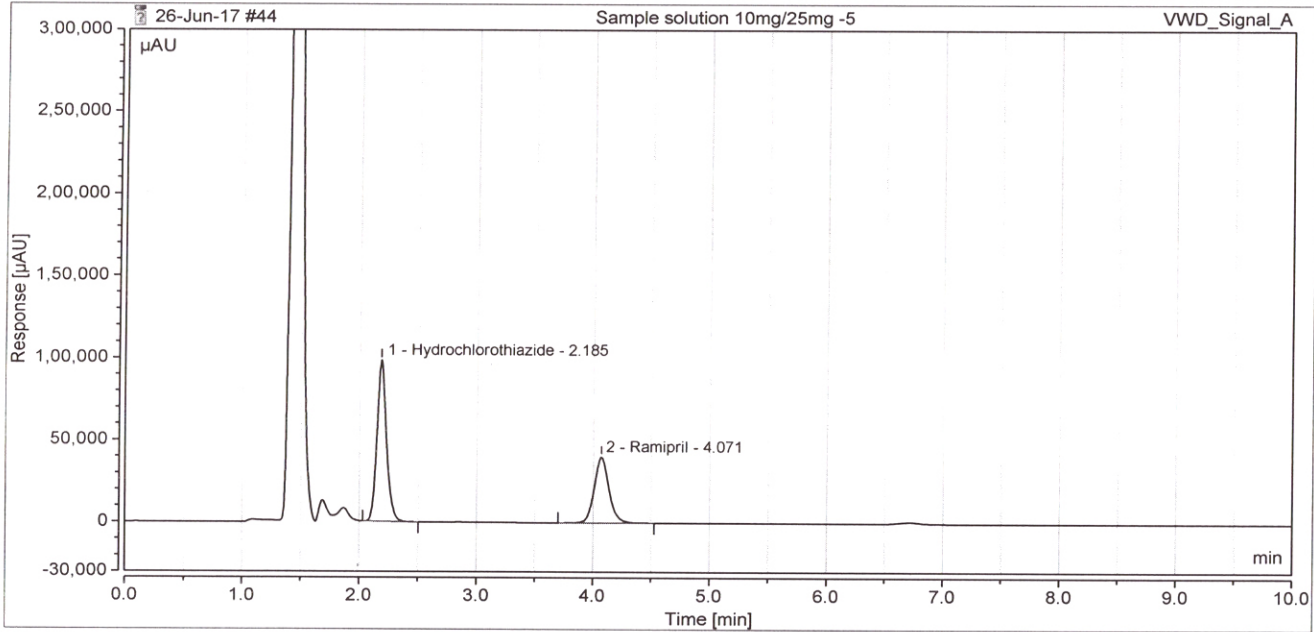
26-Jun-17

## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Sample solution 10mg/25mg -5        | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:24                             | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 03:09                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>µAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.185                       | 9347.578        | 61.18         | 3567         | 1.22           |
| 2      | Ramipril            | 4.071                       | 5931.141        | 38.82         | 5215         | 1.12           |
| Total: |                     |                             | 15278.719       |               |              |                |

GM  
26-Jun-17

Shyam  
27-Jun-17

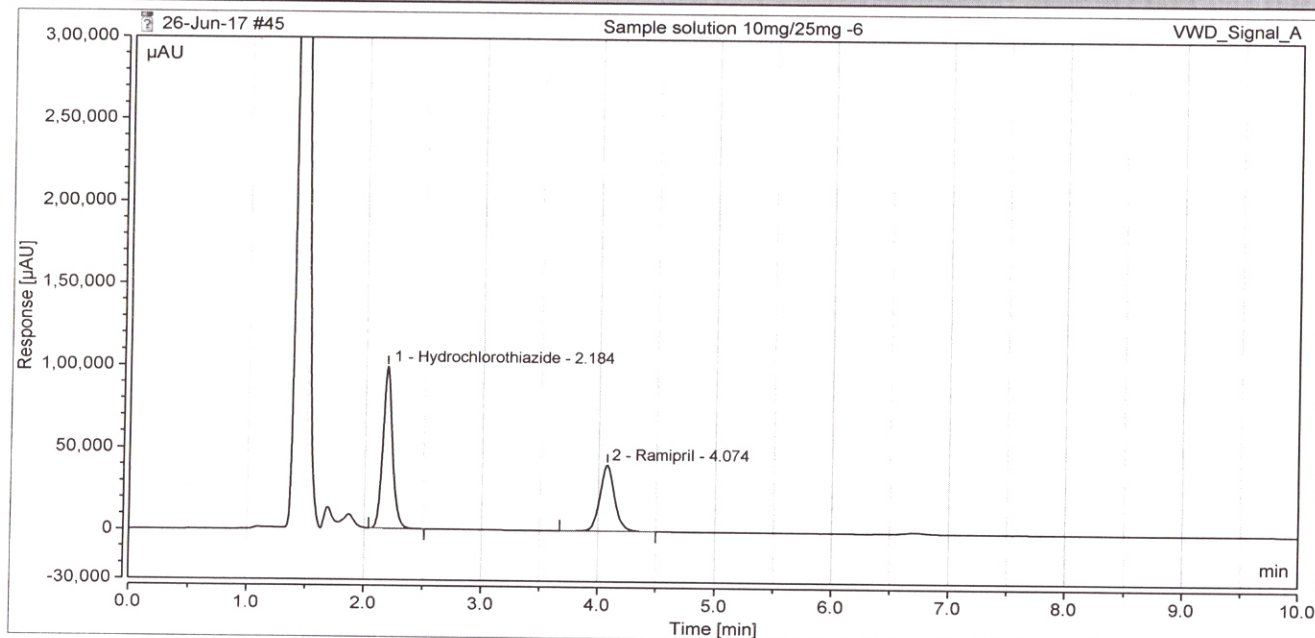


## QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                     |                   |                  |
|----------------------|-------------------------------------|-------------------|------------------|
| Injection Name:      | Sample solution 10mg/25mg -6        | Run Time (min):   | 10.00            |
| Vial Number:         | Vial:25                             | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                             | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01 | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                        | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 03:20                   | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                        |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>µAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.184                       | 9361.114        | 61.20         | 3558         | 1.24           |
| 2      | Ramipril            | 4.074                       | 5934.695        | 38.80         | 5214         | 1.12           |
| Total: |                     |                             | 15295.810       |               |              |                |

G+  
26-Jun-17

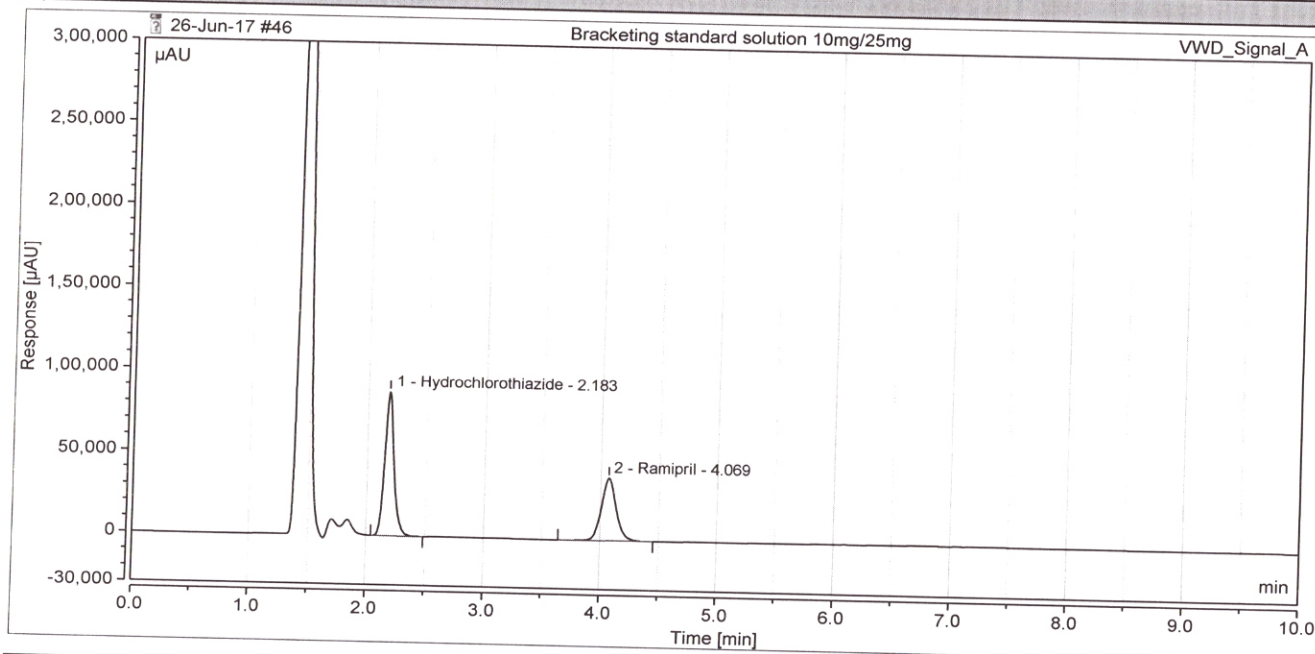
G+  
26-Jun-17

# QbD Research and Development Pvt. Ltd

## Injection Details

|                      |                                        |                   |                  |
|----------------------|----------------------------------------|-------------------|------------------|
| Injection Name:      | Bracketing standard solution 10mg/25mg | Run Time (min):   | 10.00            |
| Vial Number:         | Vial: 4                                | Injection Volume: | 10.00            |
| Injection Type:      | Unknown                                | Channel:          | VWD_Signal_A     |
| Instrument Method:   | Ramithiazide Dissolution HPLC-04_01    | Wavelength:       | 210              |
| Processing Method:   | PR Method_01                           | Instrument Name:  | QbD-INST-HPLC-04 |
| Injection Date/Time: | 27-Jun-2017 03:31                      | Sequence Name:    | 26-Jun-17        |
| User Name:           | niteen gapat                           |                   |                  |

## Chromatogram



## Integration Results

| No.    | Peak Name           | Retention (DETECTED)<br>min | Area<br>μAU*min | Rel.Area<br>% | Plates (USP) | Asymmetry (EP) |
|--------|---------------------|-----------------------------|-----------------|---------------|--------------|----------------|
| 1      | Hydrochlorothiazide | 2.183                       | 8046.731        | 58.72         | 3874         | 1.27           |
| 2      | Ramipril            | 4.069                       | 5656.143        | 41.28         | 5198         | 1.12           |
| Total: |                     |                             | 13702.874       |               |              |                |

CM  
26-Jun-17

CM  
27-Jun-17