

## 8.4. Test Results

### 5180-5240MHz Band:

|                          |                         |                          |
|--------------------------|-------------------------|--------------------------|
| EUT: Cash Register       |                         |                          |
| M/N: SPB1-01             |                         |                          |
| Test date: 2017-07-04~05 | Pressure: 102.8±1.0 kpa | Humidity: 53.2±3.0%      |
| Tested by: zack_zhu      | Test site: RF site      | Temperature: 23.6±0.6 °C |

| Test Mode        | Frequency (MHz) | Power density (dBm/MHz) |        | Limit (dBm/MHz) |       |
|------------------|-----------------|-------------------------|--------|-----------------|-------|
|                  |                 | ANT0                    | ANT1   | ANT0            | ANT1  |
| 11a              | 5180            | 4.656                   | 3.048  | 11              | 10.87 |
|                  | 5200            | 4.518                   | 3.137  | 11              | 10.87 |
|                  | 5240            | 4.605                   | 3.377  | 11              | 10.87 |
| 11n HT20         | 5180            | 4.639                   | 3.436  | 11              | 10.87 |
|                  | 5200            | 4.340                   | 3.020  | 11              | 10.87 |
|                  | 5240            | 4.666                   | 3.201  | 11              | 10.87 |
| 11n HT40         | 5190            | 1.178                   | 0.979  | 11              | 10.87 |
|                  | 5230            | 1.024                   | 1.122  | 11              | 10.87 |
| 11ac VHT20       | 5180            | 4.331                   | 3.475  | 11              | 10.87 |
|                  | 5200            | 4.113                   | 2.914  | 11              | 10.87 |
|                  | 5240            | 4.467                   | 3.361  | 11              | 10.87 |
| 11ac VHT40       | 5190            | 0.896                   | 0.904  | 11              | 10.87 |
|                  | 5230            | 0.403                   | 0.883  | 11              | 10.87 |
| 11ac VHT80       | 5210            | -3.518                  | -3.591 | 11              | 10.87 |
| Conclusion: PASS |                 |                         |        |                 |       |

Note: For ANT0:

Antenna Gain= -2.39dBi<6dBi.

For ANT1:

Antenna Gain= 6.13dBi>6dBi.

**5260-5320MHz Band:**

|                       |                         |                          |
|-----------------------|-------------------------|--------------------------|
| EUT: Cash Register    |                         |                          |
| M/N: SPB1-01          |                         |                          |
| Test date: 2017-07-05 | Pressure: 102.8±1.0 kpa | Humidity: 53.2±3.0%      |
| Tested by: zack_zhu   | Test site: RF site      | Temperature: 23.6±0.6 °C |

| Test Mode        | Frequency (MHz) | Power density (dBm/MHz) |        | Limit (dBm/MHz) |       |
|------------------|-----------------|-------------------------|--------|-----------------|-------|
|                  |                 | ANT0                    | ANT1   | ANT0            | ANT1  |
| 11a              | 5260            | 4.436                   | 4.632  | 11              | 10.26 |
|                  | 5300            | 4.593                   | 4.749  | 11              | 10.26 |
|                  | 5320            | 4.663                   | 4.700  | 11              | 10.26 |
| 11n HT20         | 5260            | 4.174                   | 3.999  | 11              | 10.26 |
|                  | 5300            | 4.681                   | 4.428  | 11              | 10.26 |
|                  | 5320            | 4.474                   | 4.724  | 11              | 10.26 |
| 11n HT40         | 5270            | 1.190                   | 1.071  | 11              | 10.26 |
|                  | 5310            | 1.230                   | 1.296  | 11              | 10.26 |
| 11ac VHT20       | 5260            | 4.208                   | 4.051  | 11              | 10.26 |
|                  | 5300            | 4.311                   | 4.534  | 11              | 10.26 |
|                  | 5320            | 4.349                   | 4.449  | 11              | 10.26 |
| 11ac VHT40       | 5270            | 0.862                   | 1.228  | 11              | 10.26 |
|                  | 5310            | 1.145                   | 1.565  | 11              | 10.26 |
| 11ac VHT80       | 5290            | -3.675                  | -3.420 | 11              | 10.26 |
| Conclusion: PASS |                 |                         |        |                 |       |

Note: For ANT0:

Antenna Gain= -1.76dBi<6dBi.

For ANT1:

Antenna Gain= 6.74dBi>6dBi.

**5500-5700MHz Band:**

|                       |                         |                          |
|-----------------------|-------------------------|--------------------------|
| EUT: Cash Register    |                         |                          |
| M/N: SPB1-01          |                         |                          |
| Test date: 2017-07-05 | Pressure: 103.2±1.0 kpa | Humidity: 52.7±3.0%      |
| Tested by: zack_zhu   | Test site: RF site      | Temperature: 23.3±0.6 °C |

| Test Mode        | Frequency (MHz) | Power density (dBm/MHz) |        | Limit (dBm/MHz) |       |
|------------------|-----------------|-------------------------|--------|-----------------|-------|
|                  |                 | ANT0                    | ANT1   | ANT0            | ANT1  |
| 11a              | 5500            | 4.878                   | 4.793  | 11              | 10.08 |
|                  | 5600            | 4.652                   | 4.845  | 11              | 10.08 |
|                  | 5700            | 4.447                   | 4.419  | 11              | 10.08 |
| 11n HT20         | 5500            | 4.905                   | 4.688  | 11              | 10.08 |
|                  | 5600            | 4.042                   | 4.314  | 11              | 10.08 |
|                  | 5700            | 4.074                   | 4.030  | 11              | 10.08 |
| 11n HT40         | 5510            | 1.374                   | 1.401  | 11              | 10.08 |
|                  | 5590            | 0.794                   | 0.968  | 11              | 10.08 |
|                  | 5670            | 0.643                   | 0.321  | 11              | 10.08 |
| 11ac VHT20       | 5500            | 4.823                   | 4.606  | 11              | 10.08 |
|                  | 5600            | 4.356                   | 4.188  | 11              | 10.08 |
|                  | 5700            | 4.093                   | 4.465  | 11              | 10.08 |
| 11ac VHT40       | 5510            | 1.271                   | 1.410  | 11              | 10.08 |
|                  | 5590            | 0.975                   | 0.653  | 11              | 10.08 |
|                  | 5670            | 0.285                   | 0.844  | 11              | 10.08 |
| 11ac VHT80       | 5530            | -3.345                  | -3.276 | 11              | 10.08 |
|                  | 5610            | -4.160                  | -3.561 | 11              | 10.08 |
|                  | 5690            | -3.034                  | -2.724 | 11              | 10.08 |
| Conclusion: PASS |                 |                         |        |                 |       |

Note: For ANT0:

Antenna Gain= 1.42dBi<6dBi.

For ANT1:

Antenna Gain= 6.92dBi>6dBi.

**5745-5825MHz Band:**

|                       |                         |                          |
|-----------------------|-------------------------|--------------------------|
| EUT: Cash Register    |                         |                          |
| M/N: SPB1-01          |                         |                          |
| Test date: 2017-07-10 | Pressure: 102.8±1.0 kpa | Humidity: 53.2±3.0%      |
| Tested by: zack_zhu   | Test site: RF site      | Temperature: 23.6±0.6 °C |

| Test Mode        | Frequency (MHz) | Power density (dBm/500KHz) |         | Limit (dBm/500KHz) |       |
|------------------|-----------------|----------------------------|---------|--------------------|-------|
|                  |                 | ANT0                       | ANT1    | ANT0               | ANT1  |
| 11a              | 5745            | 2.9867                     | 2.8307  | 30                 | 29.02 |
|                  | 5785            | 3.2187                     | 3.1817  | 30                 | 29.02 |
|                  | 5825            | 3.2047                     | 3.3607  | 30                 | 29.02 |
| 11n HT20         | 5745            | 2.7257                     | 2.6827  | 30                 | 29.02 |
|                  | 5785            | 3.2207                     | 3.3987  | 30                 | 29.02 |
|                  | 5825            | 3.3487                     | 3.1887  | 30                 | 29.02 |
| 11n HT40         | 5755            | -0.4773                    | -0.9163 | 30                 | 29.02 |
|                  | 5795            | -0.7873                    | -1.0153 | 30                 | 29.02 |
| 11ac VHT20       | 5745            | 2.7127                     | 2.8557  | 30                 | 29.02 |
|                  | 5785            | 3.2997                     | 3.4727  | 30                 | 29.02 |
|                  | 5825            | 3.6397                     | 3.2527  | 30                 | 29.02 |
| 11ac VHT40       | 5755            | -0.5773                    | -0.6653 | 30                 | 29.02 |
|                  | 5795            | -0.4153                    | -0.3583 | 30                 | 29.02 |
| 11ac VHT80       | 5775            | -4.8303                    | -3.6333 | 30                 | 29.02 |
| Conclusion: PASS |                 |                            |         |                    |       |

Note: 1. For ANT0:

Antenna Gain= 0.55dBi<6dBi.

For ANT1:

Antenna Gain= 6.98dBi>6dBi.

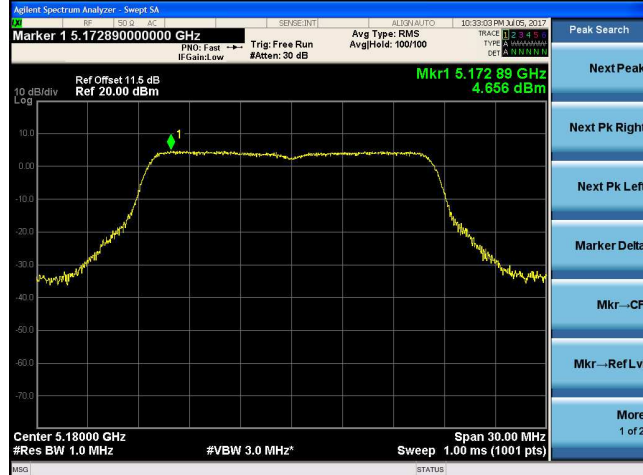
2. The total result = Reading + 10log(500kHz/100kHz)

**5180-5240MHz Band:**

**ANT 0**

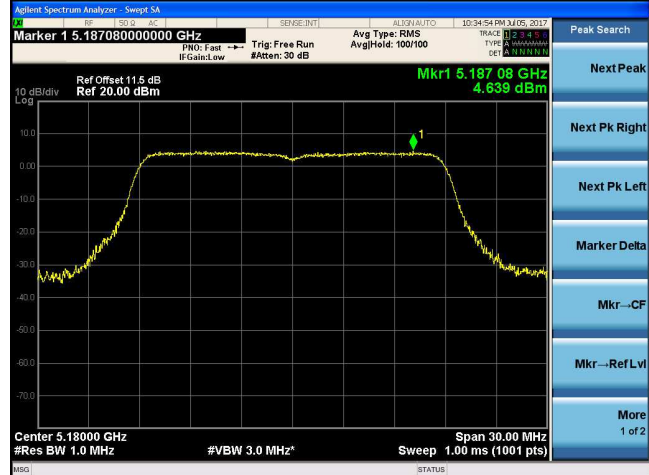
**11a**

**5180MHz**

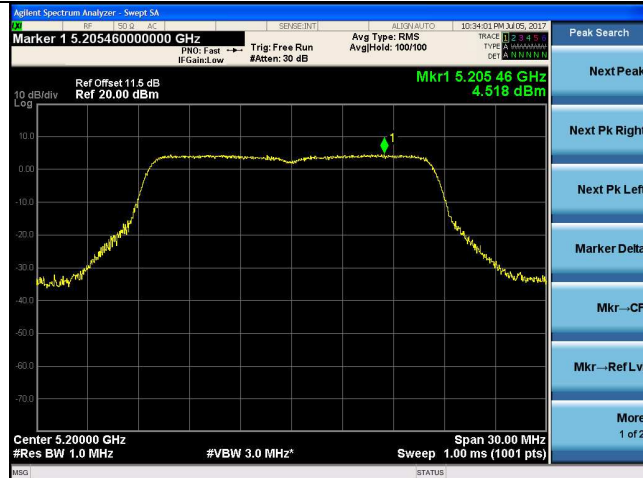


**11n HT20**

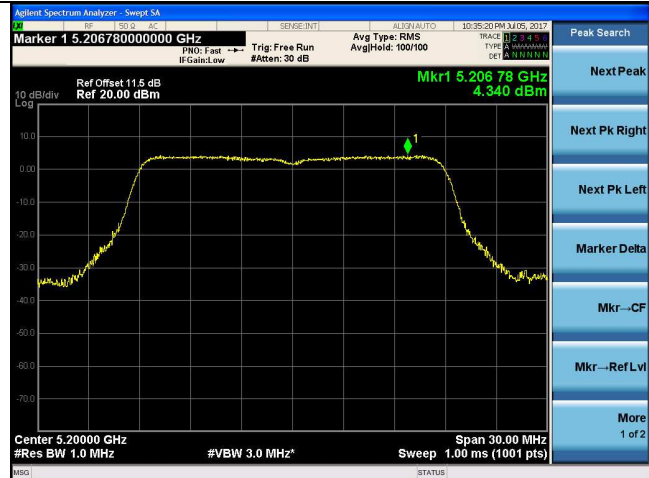
**5180MHz**



**5200MHz**



**5200MHz**



**5240MHz**

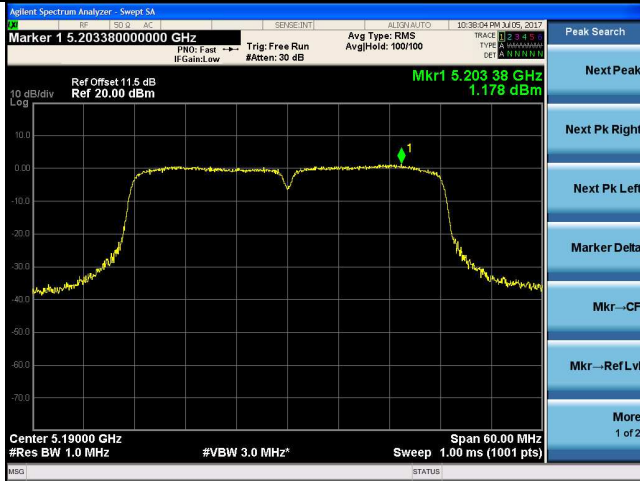


**5240MHz**



# 11n HT40

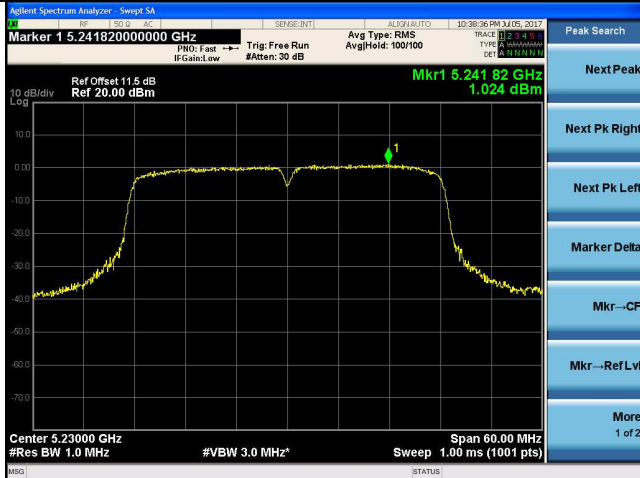
5190MHz



5200MHz



5230MHz

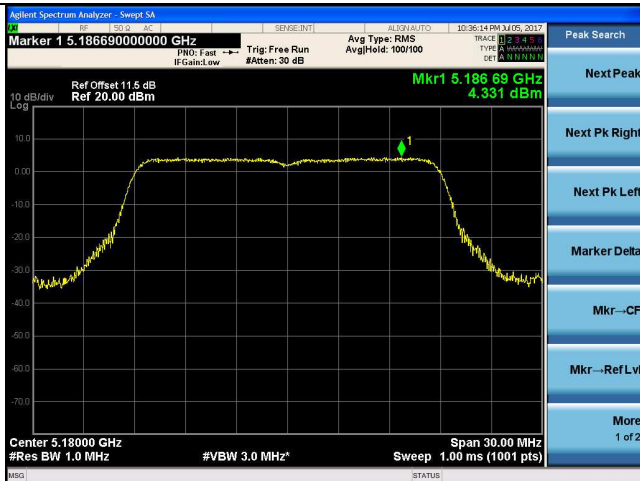


5240MHz



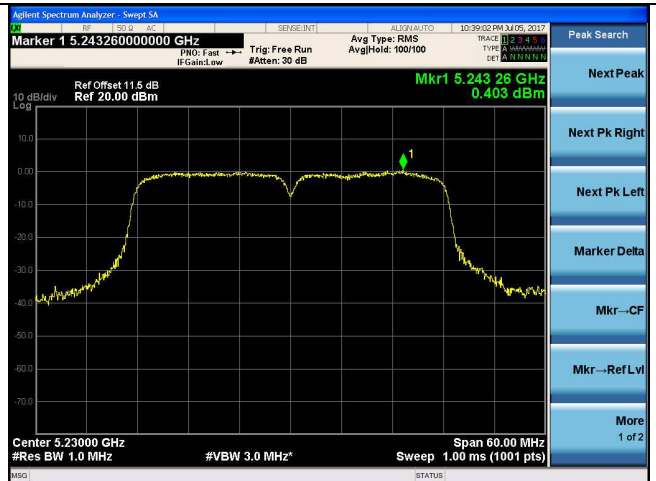
# 11ac VHT20

5180MHz

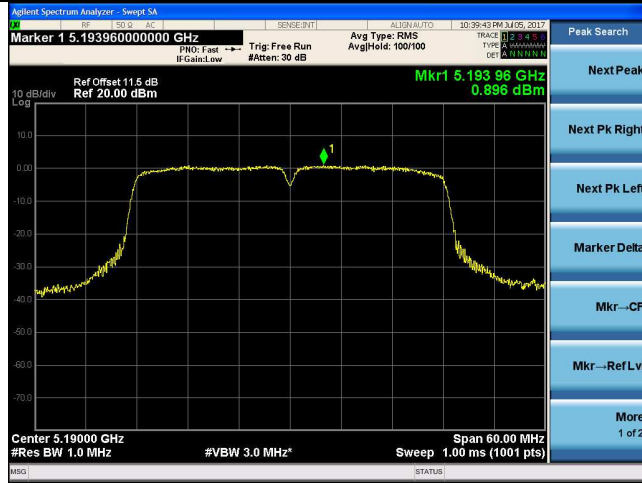


# 11ac VHT40

5190MHz

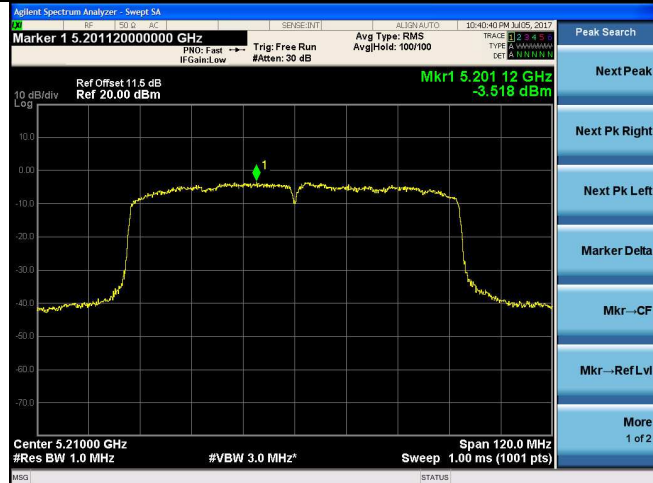


5230MHz



11ac VHT80

5210MHz



**5180-5240MHz Band:**

**ANT 1**

**11a**

**5180MHz**



**11n HT20**

**5180MHz**



**5200MHz**



**5200MHz**



**5240MHz**



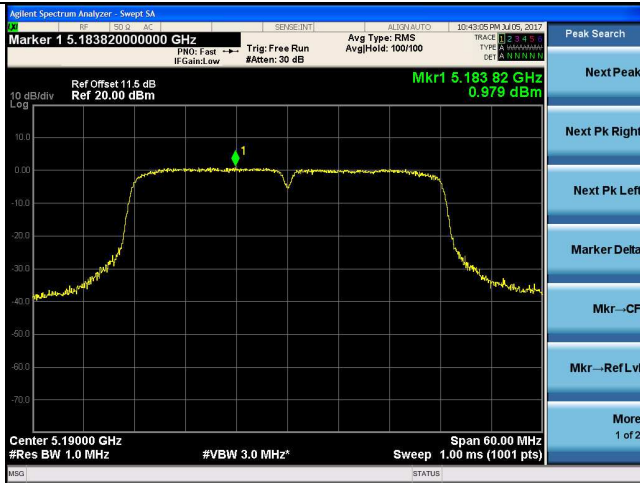
**5240MHz**





# 11n HT40

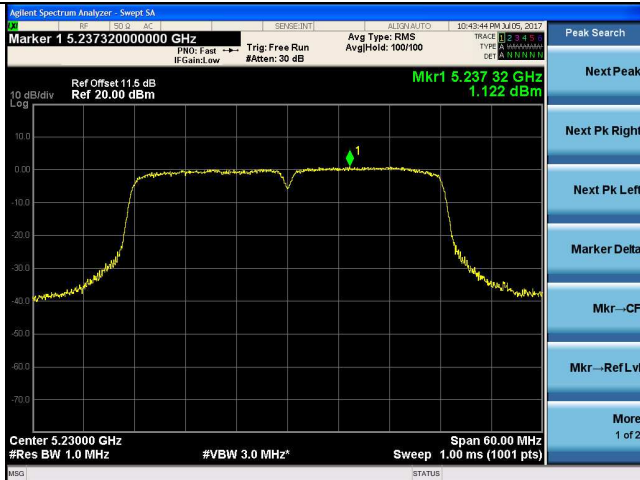
5190MHz



5200MHz



5230MHz



5240MHz



# 11ac VHT20

5180MHz



# 11ac VHT40

5190MHz

