

# APPENDIX REPORT

## 8.1 Appendix A: Conducted Output Power

### Test Result

| Band    | Channel | Power(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|------------|---------|
| Band II | 9262    | 21.81      | 33         | PASS    |
| Band II | 9400    | 22.16      | 33         | PASS    |
| Band II | 9538    | 22.27      | 33         | PASS    |
| Band V  | 4132    | 22.89      | 38.5       | PASS    |
| Band V  | 4182    | 22.79      | 38.5       | PASS    |
| Band V  | 4233    | 22.88      | 38.5       | PASS    |

| Band    | Channel | SubTest    | Power(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|------------|------------|---------|
| Band II | 9262    | HSDPA_Sub1 | 19.48      | 33         | PASS    |
| Band II | 9262    | HSDPA_Sub2 | 18.95      | 33         | PASS    |
| Band II | 9262    | HSDPA_Sub3 | 18.96      | 33         | PASS    |
| Band II | 9262    | HSDPA_Sub4 | 18.95      | 33         | PASS    |
| Band II | 9400    | HSDPA_Sub1 | 20.32      | 33         | PASS    |
| Band II | 9400    | HSDPA_Sub2 | 19.82      | 33         | PASS    |
| Band II | 9400    | HSDPA_Sub3 | 19.81      | 33         | PASS    |
| Band II | 9400    | HSDPA_Sub4 | 19.83      | 33         | PASS    |
| Band II | 9538    | HSDPA_Sub1 | 21.02      | 33         | PASS    |
| Band II | 9538    | HSDPA_Sub2 | 20.53      | 33         | PASS    |
| Band II | 9538    | HSDPA_Sub3 | 20.53      | 33         | PASS    |
| Band II | 9538    | HSDPA_Sub4 | 20.49      | 33         | PASS    |
| Band V  | 4132    | HSDPA_Sub1 | 21.89      | 38.5       | PASS    |
| Band V  | 4132    | HSDPA_Sub2 | 21.38      | 38.5       | PASS    |
| Band V  | 4132    | HSDPA_Sub3 | 21.43      | 38.5       | PASS    |
| Band V  | 4132    | HSDPA_Sub4 | 21.39      | 38.5       | PASS    |
| Band V  | 4182    | HSDPA_Sub1 | 21.80      | 38.5       | PASS    |
| Band V  | 4182    | HSDPA_Sub2 | 21.31      | 38.5       | PASS    |
| Band V  | 4182    | HSDPA_Sub3 | 21.34      | 38.5       | PASS    |
| Band V  | 4182    | HSDPA_Sub4 | 21.31      | 38.5       | PASS    |
| Band V  | 4233    | HSDPA_Sub1 | 21.83      | 38.5       | PASS    |
| Band V  | 4233    | HSDPA_Sub2 | 21.26      | 38.5       | PASS    |
| Band V  | 4233    | HSDPA_Sub3 | 21.28      | 38.5       | PASS    |
| Band V  | 4233    | HSDPA_Sub4 | 21.23      | 38.5       | PASS    |

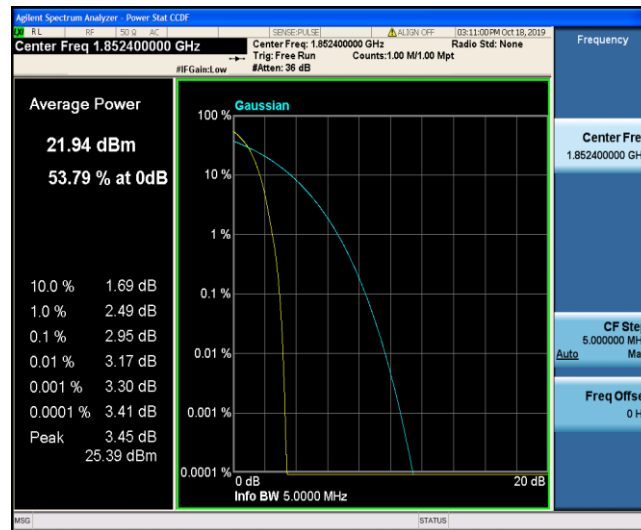
| Band    | Channel | SubTest    | Power(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|------------|------------|---------|
| Band II | 9262    | HSUPA_Sub1 | 17.35      | 33         | PASS    |
| Band II | 9262    | HSUPA_Sub2 | 17.82      | 33         | PASS    |
| Band II | 9262    | HSUPA_Sub3 | 18.33      | 33         | PASS    |
| Band II | 9262    | HSUPA_Sub4 | 17.43      | 33         | PASS    |
| Band II | 9262    | HSUPA_Sub5 | 19.38      | 33         | PASS    |
| Band II | 9400    | HSUPA_Sub1 | 18.31      | 33         | PASS    |
| Band II | 9400    | HSUPA_Sub2 | 18.74      | 33         | PASS    |
| Band II | 9400    | HSUPA_Sub3 | 19.29      | 33         | PASS    |
| Band II | 9400    | HSUPA_Sub4 | 18.32      | 33         | PASS    |
| Band II | 9400    | HSUPA_Sub5 | 20.31      | 33         | PASS    |
| Band II | 9538    | HSUPA_Sub1 | 19.00      | 33         | PASS    |
| Band II | 9538    | HSUPA_Sub2 | 19.45      | 33         | PASS    |
| Band II | 9538    | HSUPA_Sub3 | 19.98      | 33         | PASS    |
| Band II | 9538    | HSUPA_Sub4 | 19.01      | 33         | PASS    |
| Band II | 9538    | HSUPA_Sub5 | 20.97      | 33         | PASS    |
| Band V  | 4132    | HSUPA_Sub1 | 19.39      | 38.5       | PASS    |
| Band V  | 4132    | HSUPA_Sub2 | 20.32      | 38.5       | PASS    |
| Band V  | 4132    | HSUPA_Sub3 | 20.83      | 38.5       | PASS    |
| Band V  | 4132    | HSUPA_Sub4 | 19.90      | 38.5       | PASS    |
| Band V  | 4132    | HSUPA_Sub5 | 21.84      | 38.5       | PASS    |
| Band V  | 4182    | HSUPA_Sub1 | 19.78      | 38.5       | PASS    |
| Band V  | 4182    | HSUPA_Sub2 | 20.21      | 38.5       | PASS    |
| Band V  | 4182    | HSUPA_Sub3 | 20.72      | 38.5       | PASS    |
| Band V  | 4182    | HSUPA_Sub4 | 19.81      | 38.5       | PASS    |
| Band V  | 4182    | HSUPA_Sub5 | 21.75      | 38.5       | PASS    |
| Band V  | 4233    | HSUPA_Sub1 | 19.80      | 38.5       | PASS    |
| Band V  | 4233    | HSUPA_Sub2 | 20.23      | 38.5       | PASS    |
| Band V  | 4233    | HSUPA_Sub3 | 20.78      | 38.5       | PASS    |
| Band V  | 4233    | HSUPA_Sub4 | 19.84      | 38.5       | PASS    |
| Band V  | 4233    | HSUPA_Sub5 | 21.80      | 38.5       | PASS    |

## 8.2 Appendix B: Peak-to-Average Ratio

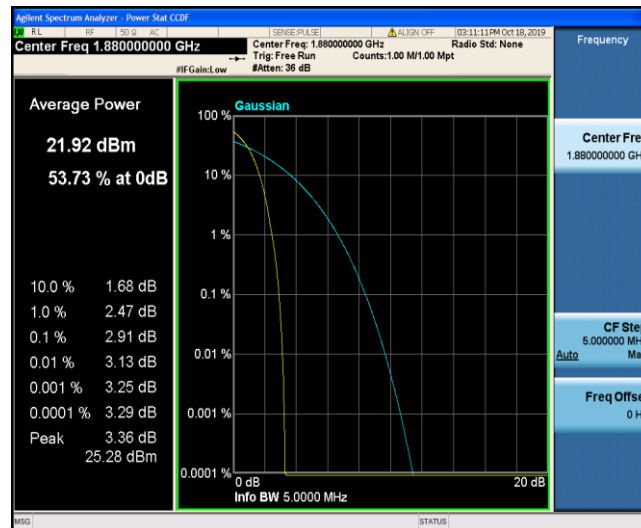
### Test Result

| Band    | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|---------|---------|---------------------------|-----------|---------|
| Band II | 9262    | 2.95                      | 13        | PASS    |
| Band II | 9400    | 2.91                      | 13        | PASS    |
| Band II | 9538    | 2.95                      | 13        | PASS    |
| Band V  | 4132    | 2.88                      | 13        | PASS    |
| Band V  | 4182    | 2.87                      | 13        | PASS    |
| Band V  | 4233    | 3.04                      | 13        | PASS    |

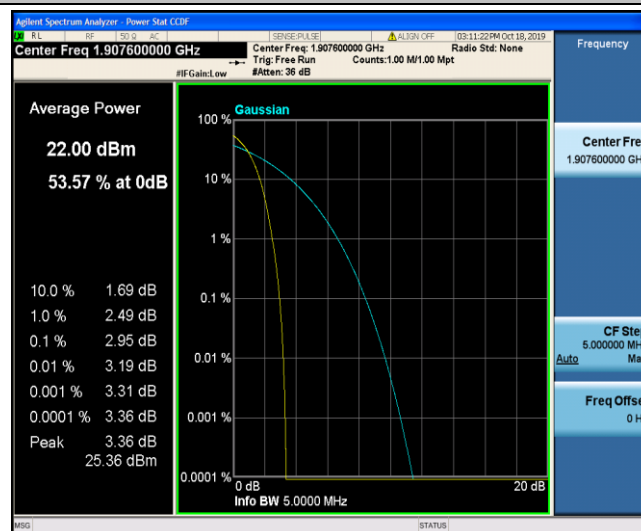
## Test Graphs



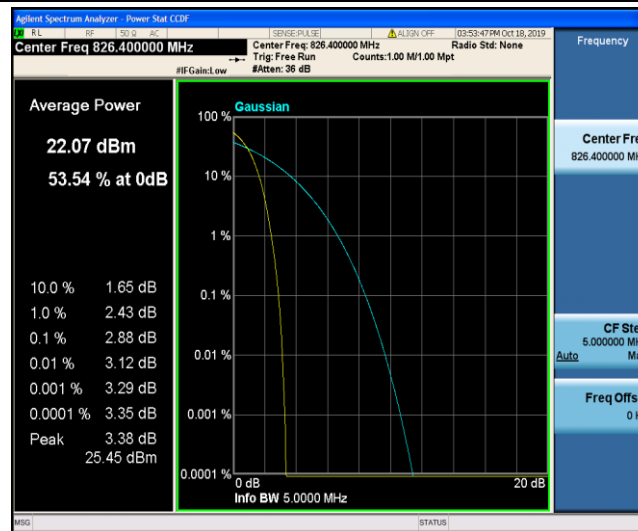
Band II\_9262



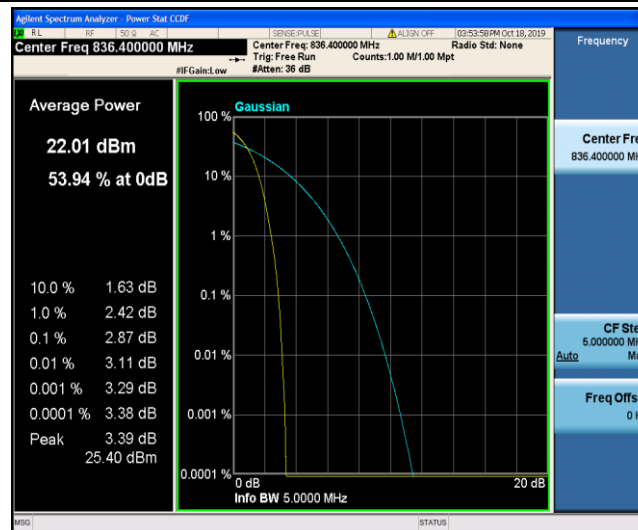
Band II\_9400



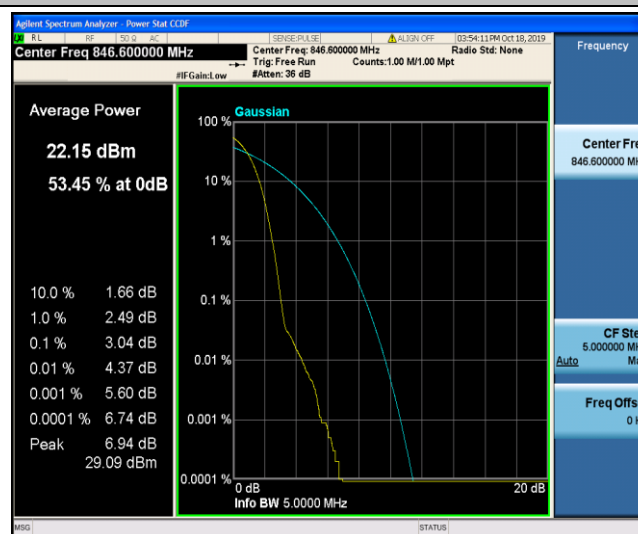
Band II\_9538



Band V\_4132



Band V\_4182



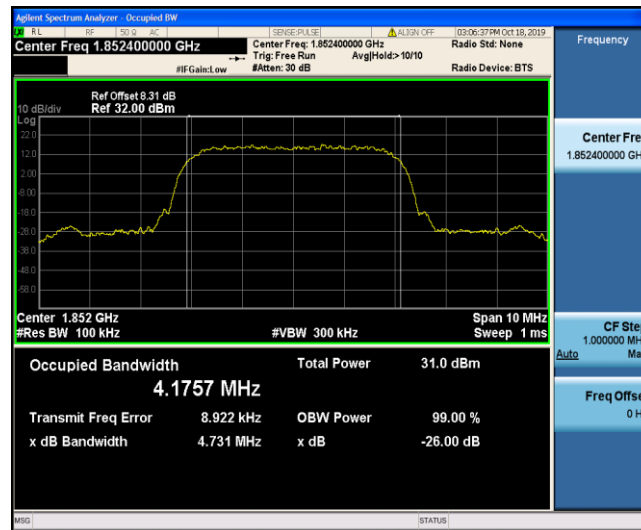
Band V\_4233

### 8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

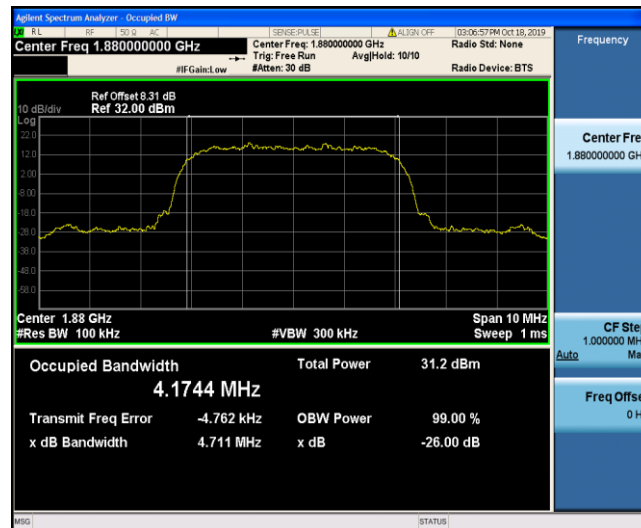
#### Test Result

| Band    | Channel | Occupied Bandwidth<br>(kHz) | 26dB Bandwidth<br>(kHz) | Limit(kHz) | Verdict |
|---------|---------|-----------------------------|-------------------------|------------|---------|
| Band II | 9262    | 4175.7                      | 4731                    | ---        | PASS    |
| Band II | 9400    | 4174.4                      | 4711                    | ---        | PASS    |
| Band II | 9538    | 4179.0                      | 4716                    | ---        | PASS    |
| Band V  | 4132    | 4179.5                      | 4740                    | ---        | PASS    |
| Band V  | 4182    | 4178.9                      | 4723                    | ---        | PASS    |
| Band V  | 4233    | 4194.9                      | 4732                    | ---        | PASS    |

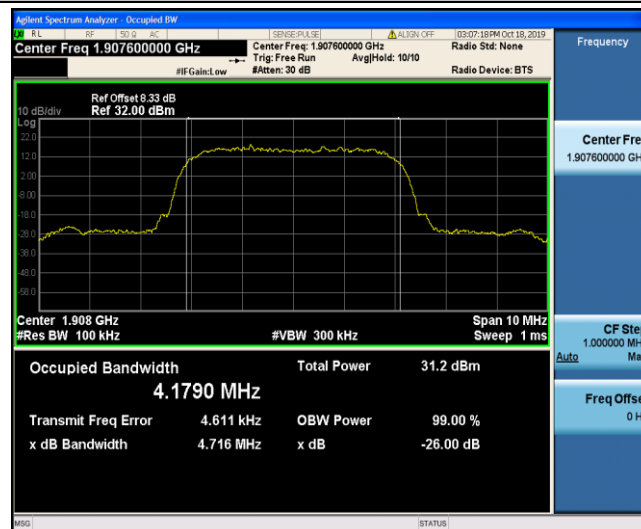
## Test Graphs



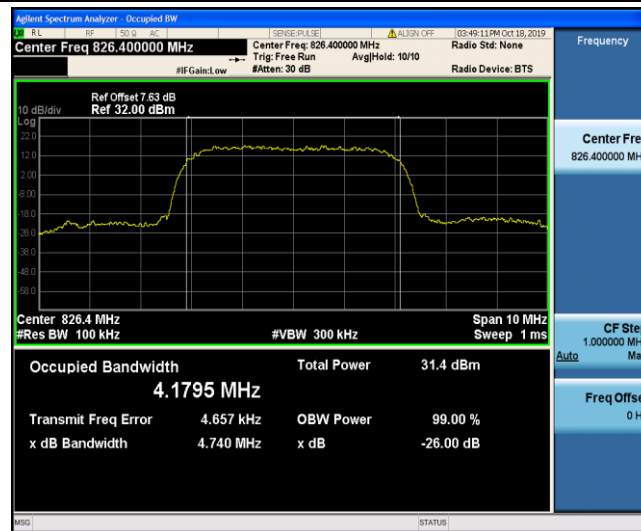
Band II\_9262



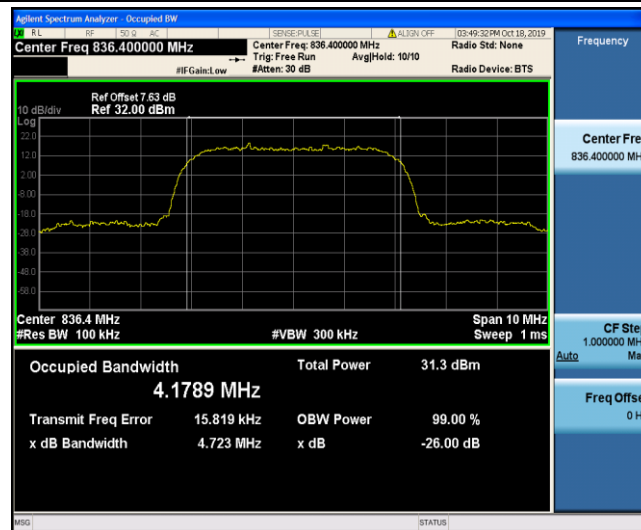
Band II\_9400



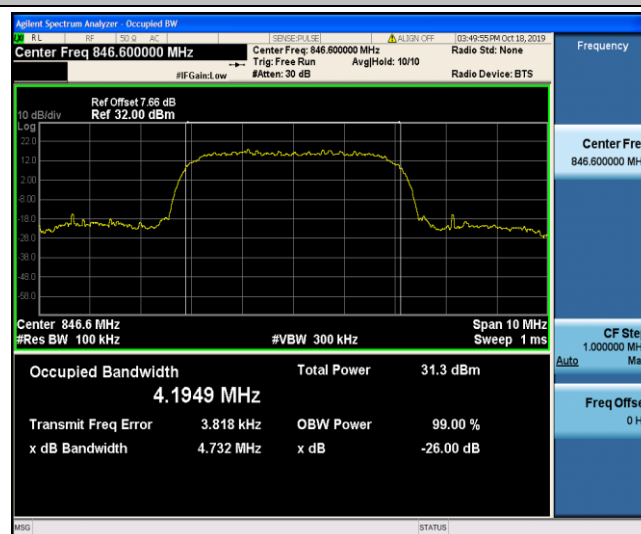
Band II\_9538



Band V\_4132



Band V\_4182



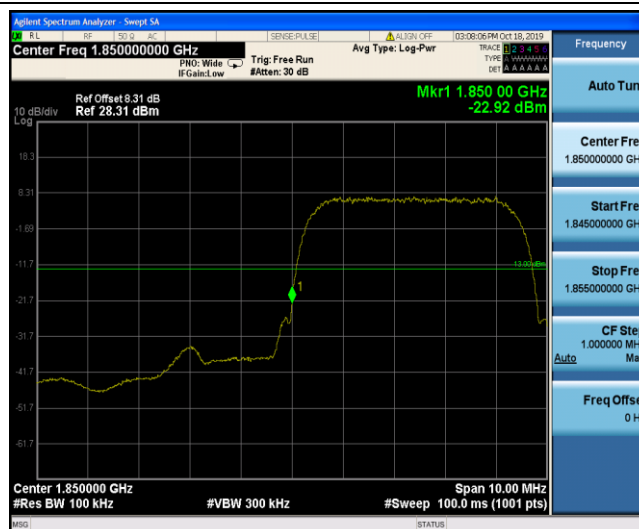
Band V\_4233

#### 8.4 Appendix D: Band Edge

##### Test Result

| Band    | Channel | Value(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|------------|---------|
| Band II | 9262    | -22.92     | -13        | PASS    |
| Band II | 9538    | -23.12     | -13        | PASS    |
| Band V  | 4132    | -20.86     | -13        | PASS    |
| Band V  | 4233    | -21.71     | -13        | PASS    |

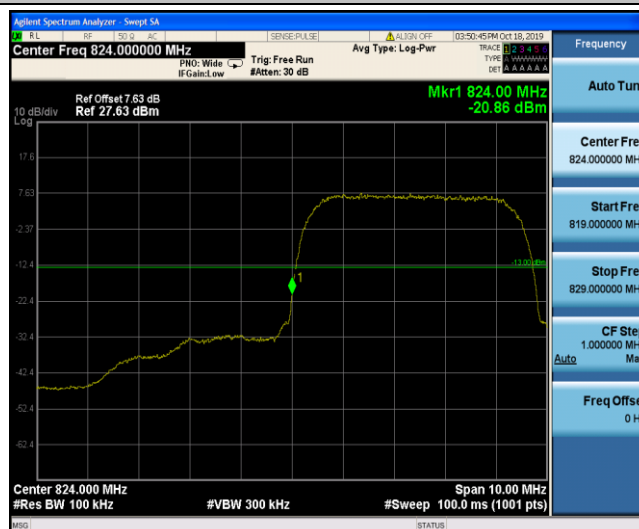
## Test Graphs



Band II\_9262



Band II\_9538



Band V\_4132



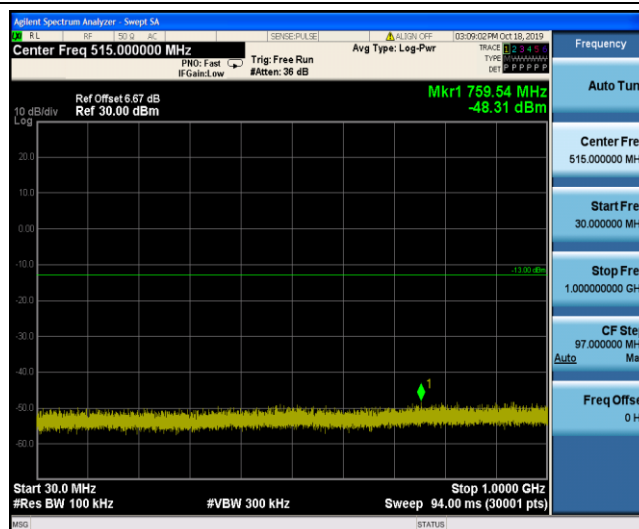
Band V\_4233

## 8.5 Appendix E: Conducted Spurious Emission

### Test Result

| Band    | Channel | Frequency Rang(Mhz) | Value(dBm) | Limit(dBm) | Verdict |
|---------|---------|---------------------|------------|------------|---------|
| Band II | 9262    | 30~1000             | -48.32     | -13        | PASS    |
| Band II | 9262    | 1000~20000          | -25.52     | -13        | PASS    |
| Band II | 9400    | 30~1000             | -47.80     | -13        | PASS    |
| Band II | 9400    | 1000~20000          | -26.23     | -13        | PASS    |
| Band II | 9538    | 30~1000             | -47.24     | -13        | PASS    |
| Band II | 9538    | 1000~20000          | -25.91     | -13        | PASS    |
| Band V  | 4132    | 30~1000             | -48.15     | -13        | PASS    |
| Band V  | 4132    | 1000~10000          | -32.34     | -13        | PASS    |
| Band V  | 4182    | 30~1000             | -48.16     | -13        | PASS    |
| Band V  | 4182    | 1000~10000          | -32.61     | -13        | PASS    |
| Band V  | 4233    | 30~1000             | -48.48     | -13        | PASS    |
| Band V  | 4233    | 1000~10000          | -32.90     | -13        | PASS    |

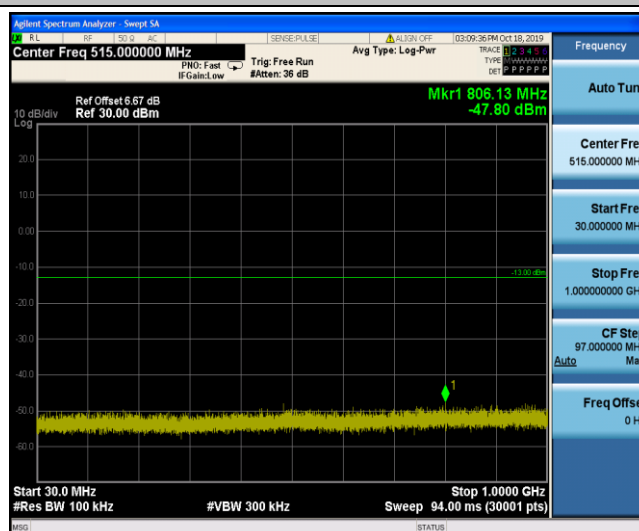
## Test Graphs



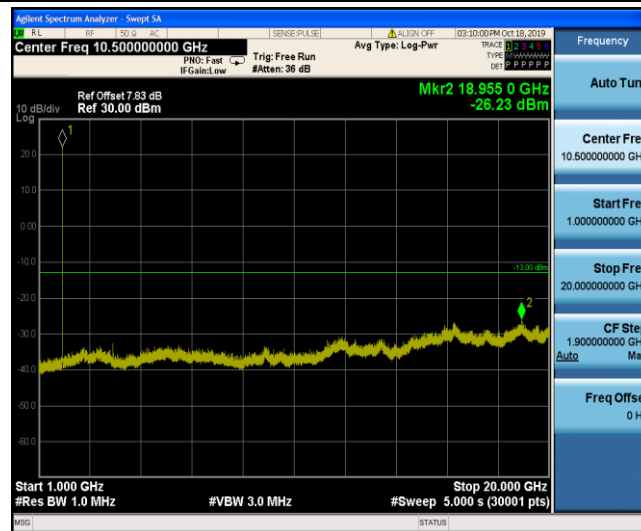
Band II\_9262



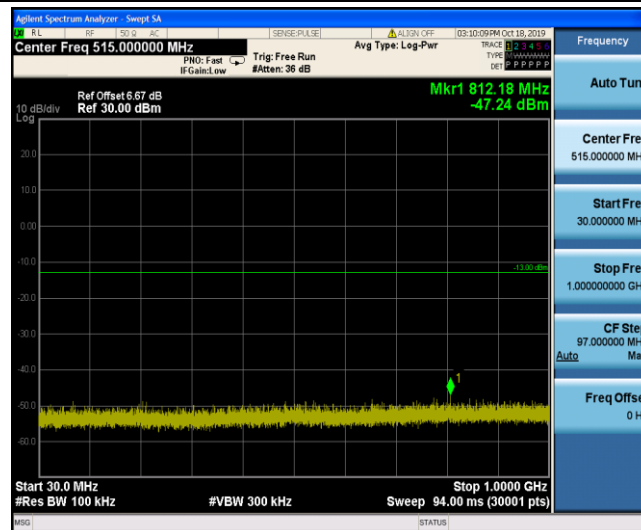
Band II\_9262



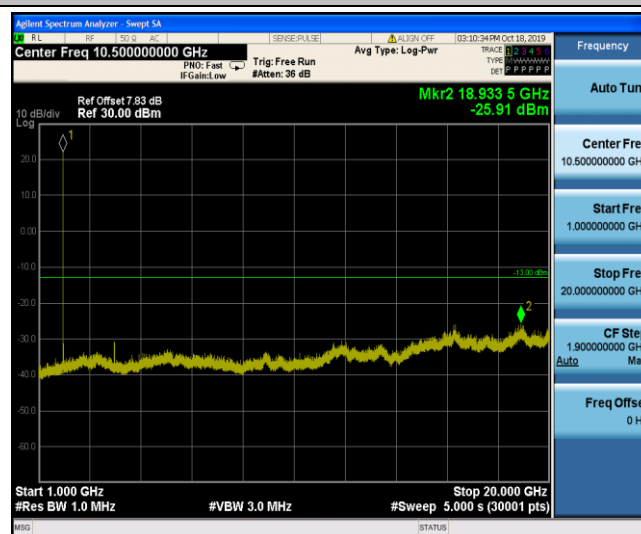
Band II\_9400



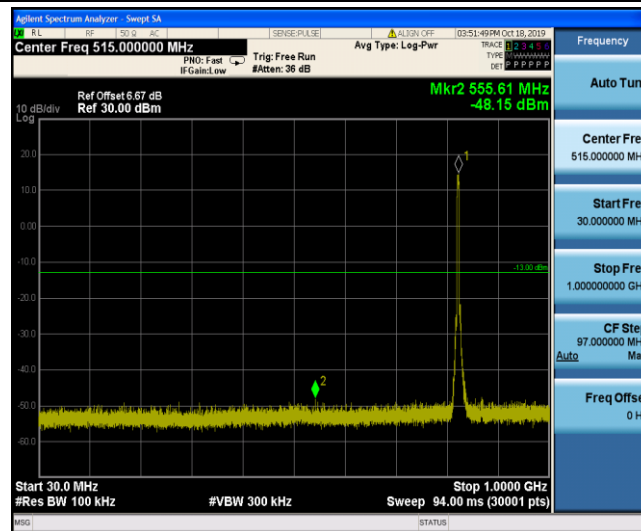
Band II\_9400



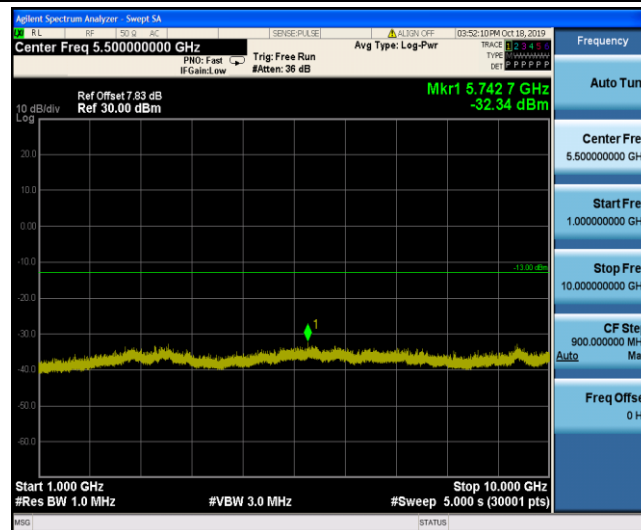
Band II\_9538



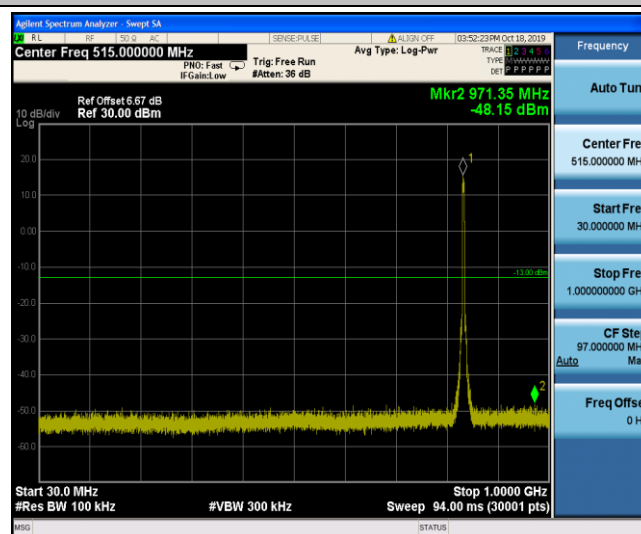
Band II\_9538



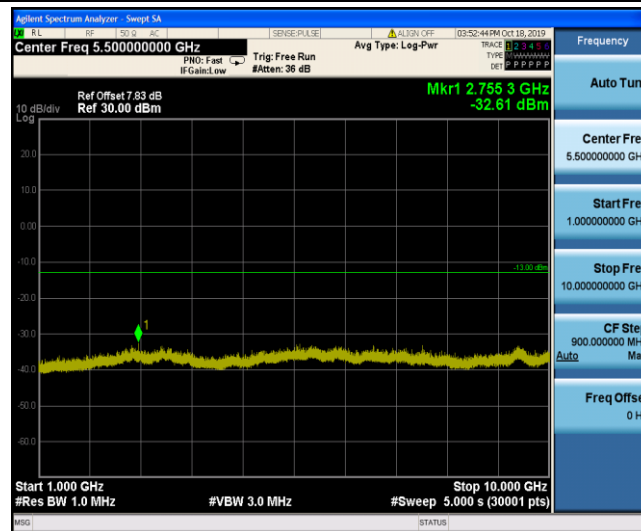
Band V\_4132



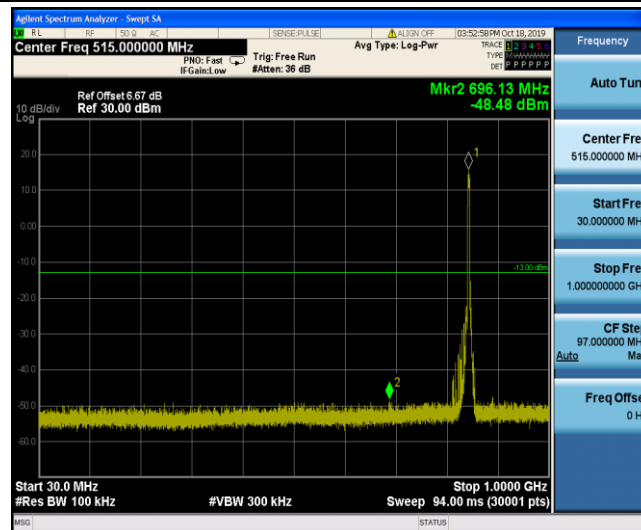
Band V\_4132



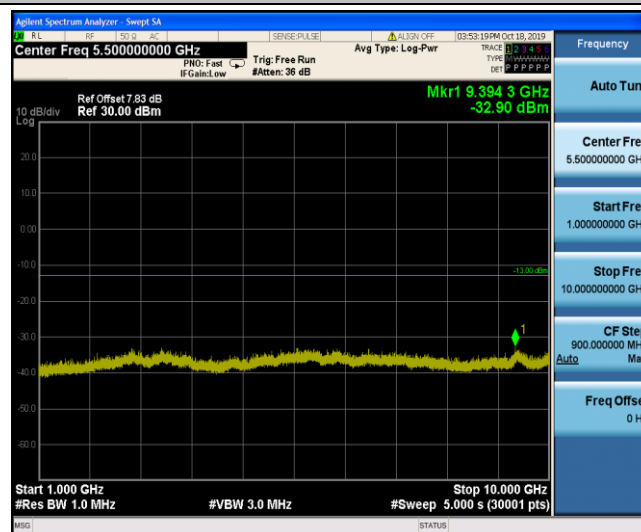
Band V\_4182



Band V\_4182



Band V\_4233



Band V\_4233

## 8.6 Appendix F: Frequency Stability

### Test Result

| Voltage |         |               |                  |                |                 |             |         |
|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band II | 9262    | VL            | TN               | -6.94          | -0.003745       | 2.5         | PASS    |
| Band II | 9262    | VN            | TN               | -8.08          | -0.004359       | 2.5         | PASS    |
| Band II | 9262    | VH            | TN               | -4.01          | -0.002162       | 2.5         | PASS    |
| Band II | 9400    | VL            | TN               | -8.28          | -0.004402       | 2.5         | PASS    |
| Band II | 9400    | VN            | TN               | -5.04          | -0.002678       | 2.5         | PASS    |
| Band II | 9400    | VH            | TN               | -6.31          | -0.003356       | 2.5         | PASS    |
| Band II | 9538    | VL            | TN               | -10.89         | -0.005707       | 2.5         | PASS    |
| Band II | 9538    | VN            | TN               | -14.89         | -0.007806       | 2.5         | PASS    |
| Band II | 9538    | VH            | TN               | -15.81         | -0.008286       | 2.5         | PASS    |

| Temperature |         |               |                  |                |                 |             |         |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band II     | 9262    | VN            | -30              | -11.00         | -0.005939       | 2.5         | PASS    |
| Band II     | 9262    | VN            | -20              | -3.45          | -0.001865       | 2.5         | PASS    |
| Band II     | 9262    | VN            | -10              | -7.94          | -0.004286       | 2.5         | PASS    |
| Band II     | 9262    | VN            | 0                | -5.72          | -0.003089       | 2.5         | PASS    |
| Band II     | 9262    | VN            | 10               | -3.88          | -0.002093       | 2.5         | PASS    |
| Band II     | 9262    | VN            | 20               | -4.78          | -0.002579       | 2.5         | PASS    |
| Band II     | 9262    | VN            | 30               | -12.53         | -0.006765       | 2.5         | PASS    |
| Band II     | 9262    | VN            | 40               | -12.50         | -0.006746       | 2.5         | PASS    |
| Band II     | 9262    | VN            | 50               | -10.58         | -0.005711       | 2.5         | PASS    |
| Band II     | 9400    | VN            | -30              | -6.62          | -0.003519       | 2.5         | PASS    |
| Band II     | 9400    | VN            | -20              | -3.28          | -0.001746       | 2.5         | PASS    |
| Band II     | 9400    | VN            | -10              | -15.59         | -0.008290       | 2.5         | PASS    |
| Band II     | 9400    | VN            | 0                | -9.96          | -0.005296       | 2.5         | PASS    |
| Band II     | 9400    | VN            | 10               | -13.38         | -0.007118       | 2.5         | PASS    |
| Band II     | 9400    | VN            | 20               | -9.54          | -0.005075       | 2.5         | PASS    |
| Band II     | 9400    | VN            | 30               | -9.69          | -0.005155       | 2.5         | PASS    |
| Band II     | 9400    | VN            | 40               | -9.48          | -0.005041       | 2.5         | PASS    |
| Band II     | 9400    | VN            | 50               | -8.22          | -0.004371       | 2.5         | PASS    |
| Band II     | 9538    | VN            | -30              | -6.35          | -0.003330       | 2.5         | PASS    |
| Band II     | 9538    | VN            | -20              | -7.14          | -0.003742       | 2.5         | PASS    |
| Band II     | 9538    | VN            | -10              | -13.36         | -0.007004       | 2.5         | PASS    |
| Band II     | 9538    | VN            | 0                | -11.51         | -0.006033       | 2.5         | PASS    |
| Band II     | 9538    | VN            | 10               | -13.19         | -0.006914       | 2.5         | PASS    |
| Band II     | 9538    | VN            | 20               | -15.51         | -0.008133       | 2.5         | PASS    |
| Band II     | 9538    | VN            | 30               | -8.61          | -0.004514       | 2.5         | PASS    |
| Band II     | 9538    | VN            | 40               | -12.57         | -0.006588       | 2.5         | PASS    |
| Band II     | 9538    | VN            | 50               | -7.39          | -0.003873       | 2.5         | PASS    |

-----End of the Report -----