

# APPENDIX REPORT

|                 |                 |                     |              |
|-----------------|-----------------|---------------------|--------------|
| Project No.     | SHT2107001007EW | Radio Specification | WCDMA        |
| Test sample No. | YPHT21070010004 | Model No.           | L506         |
| Start test date | 2021/7/8        | Finish date         | 2021/7/8     |
| Temperature     | 27.2°C          | Humidity            | 35%          |
| Test Engineer   | Jiongsheng.Feng | Auditor             | Xiaodong Zhu |

| Appendix clause | Test item                              | Result |
|-----------------|----------------------------------------|--------|
| A               | Conducted Output Power                 | PASS   |
| B               | Peak-to-Average Ratio                  | PASS   |
| C               | 26 dB Bandwidth and Occupied Bandwidth | PASS   |
| D               | Band edge                              | PASS   |
| E               | Conducted Spurious Emission            | PASS   |
| F               | Frequency Stability                    | PASS   |

## 8.1 Appendix A: Conducted Output Power

### Test Result

| Band    | Channel | Power(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|------------|---------|
| Band II | 9262    | 23.50      | 33         | PASS    |
| Band II | 9400    | 23.71      | 33         | PASS    |
| Band II | 9538    | 23.85      | 33         | PASS    |
| Band V  | 4132    | 23.11      | 38.5       | PASS    |
| Band V  | 4182    | 23.13      | 38.5       | PASS    |
| Band V  | 4233    | 23.17      | 38.5       | PASS    |

| Band    | Channel | SubTest    | Power(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|------------|------------|---------|
| Band II | 9262    | HSDPA_Sub1 | 22.91      | 33         | PASS    |
| Band II | 9262    | HSDPA_Sub2 | 22.60      | 33         | PASS    |
| Band II | 9262    | HSDPA_Sub3 | 22.70      | 33         | PASS    |
| Band II | 9262    | HSDPA_Sub4 | 22.38      | 33         | PASS    |
| Band II | 9400    | HSDPA_Sub1 | 23.32      | 33         | PASS    |
| Band II | 9400    | HSDPA_Sub2 | 22.92      | 33         | PASS    |
| Band II | 9400    | HSDPA_Sub3 | 23.10      | 33         | PASS    |
| Band II | 9400    | HSDPA_Sub4 | 22.79      | 33         | PASS    |
| Band II | 9538    | HSDPA_Sub1 | 23.25      | 33         | PASS    |
| Band II | 9538    | HSDPA_Sub2 | 22.89      | 33         | PASS    |
| Band II | 9538    | HSDPA_Sub3 | 22.95      | 33         | PASS    |
| Band II | 9538    | HSDPA_Sub4 | 22.73      | 33         | PASS    |
| Band V  | 4132    | HSDPA_Sub1 | 22.12      | 38.5       | PASS    |
| Band V  | 4132    | HSDPA_Sub2 | 21.87      | 38.5       | PASS    |
| Band V  | 4132    | HSDPA_Sub3 | 21.59      | 38.5       | PASS    |
| Band V  | 4132    | HSDPA_Sub4 | 21.69      | 38.5       | PASS    |
| Band V  | 4182    | HSDPA_Sub1 | 21.45      | 38.5       | PASS    |
| Band V  | 4182    | HSDPA_Sub2 | 21.36      | 38.5       | PASS    |
| Band V  | 4182    | HSDPA_Sub3 | 21.05      | 38.5       | PASS    |
| Band V  | 4182    | HSDPA_Sub4 | 21.08      | 38.5       | PASS    |
| Band V  | 4233    | HSDPA_Sub1 | 22.23      | 38.5       | PASS    |
| Band V  | 4233    | HSDPA_Sub2 | 22.10      | 38.5       | PASS    |
| Band V  | 4233    | HSDPA_Sub3 | 21.82      | 38.5       | PASS    |
| Band V  | 4233    | HSDPA_Sub4 | 21.71      | 38.5       | PASS    |

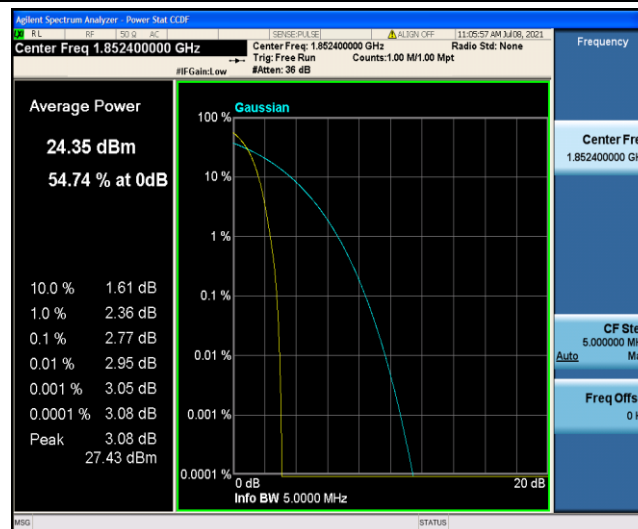
| Band    | Channel | SubTest    | Power(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|------------|------------|---------|
| Band II | 9262    | HSUPA_Sub1 | 20.66      | 33         | PASS    |
| Band II | 9262    | HSUPA_Sub2 | 20.97      | 33         | PASS    |
| Band II | 9262    | HSUPA_Sub3 | 20.76      | 33         | PASS    |
| Band II | 9262    | HSUPA_Sub4 | 21.00      | 33         | PASS    |
| Band II | 9262    | HSUPA_Sub5 | 23.06      | 33         | PASS    |
| Band II | 9400    | HSUPA_Sub1 | 21.01      | 33         | PASS    |
| Band II | 9400    | HSUPA_Sub2 | 21.32      | 33         | PASS    |
| Band II | 9400    | HSUPA_Sub3 | 21.16      | 33         | PASS    |
| Band II | 9400    | HSUPA_Sub4 | 21.33      | 33         | PASS    |
| Band II | 9400    | HSUPA_Sub5 | 23.34      | 33         | PASS    |
| Band II | 9538    | HSUPA_Sub1 | 20.89      | 33         | PASS    |
| Band II | 9538    | HSUPA_Sub2 | 21.16      | 33         | PASS    |
| Band II | 9538    | HSUPA_Sub3 | 21.03      | 33         | PASS    |
| Band II | 9538    | HSUPA_Sub4 | 21.18      | 33         | PASS    |
| Band II | 9538    | HSUPA_Sub5 | 23.30      | 33         | PASS    |
| Band V  | 4132    | HSUPA_Sub1 | 21.21      | 38.5       | PASS    |
| Band V  | 4132    | HSUPA_Sub2 | 21.11      | 38.5       | PASS    |
| Band V  | 4132    | HSUPA_Sub3 | 20.81      | 38.5       | PASS    |
| Band V  | 4132    | HSUPA_Sub4 | 20.77      | 38.5       | PASS    |
| Band V  | 4132    | HSUPA_Sub5 | 22.60      | 38.5       | PASS    |
| Band V  | 4182    | HSUPA_Sub1 | 20.50      | 38.5       | PASS    |
| Band V  | 4182    | HSUPA_Sub2 | 20.62      | 38.5       | PASS    |
| Band V  | 4182    | HSUPA_Sub3 | 20.27      | 38.5       | PASS    |
| Band V  | 4182    | HSUPA_Sub4 | 20.21      | 38.5       | PASS    |
| Band V  | 4182    | HSUPA_Sub5 | 21.83      | 38.5       | PASS    |
| Band V  | 4233    | HSUPA_Sub1 | 21.04      | 38.5       | PASS    |
| Band V  | 4233    | HSUPA_Sub2 | 21.26      | 38.5       | PASS    |
| Band V  | 4233    | HSUPA_Sub3 | 20.88      | 38.5       | PASS    |
| Band V  | 4233    | HSUPA_Sub4 | 20.82      | 38.5       | PASS    |
| Band V  | 4233    | HSUPA_Sub5 | 22.48      | 38.5       | PASS    |

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

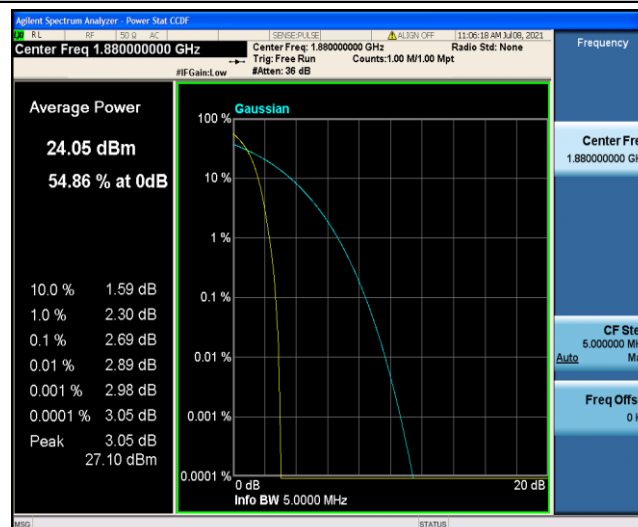
## Test Result

| Band    | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|---------|---------|---------------------------|-----------|---------|
| Band II | 9262    | 2.77                      | 13        | PASS    |
| Band II | 9400    | 2.69                      | 13        | PASS    |
| Band II | 9538    | 2.57                      | 13        | PASS    |
| Band V  | 4132    | 3.03                      | 13        | PASS    |
| Band V  | 4182    | 3.10                      | 13        | PASS    |
| Band V  | 4233    | 3.07                      | 13        | PASS    |

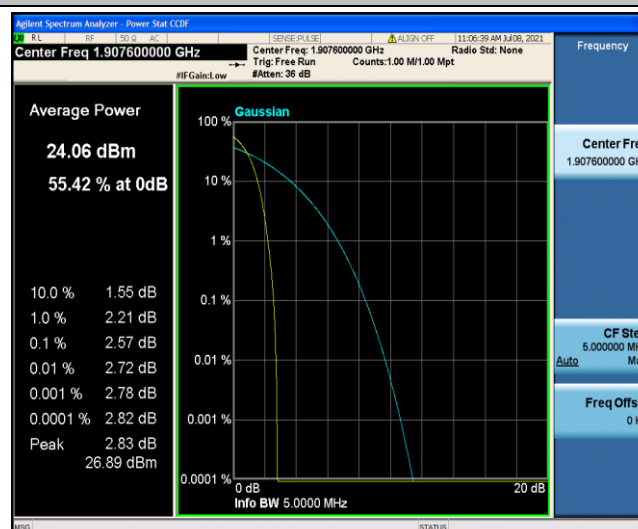
## Test Graphs



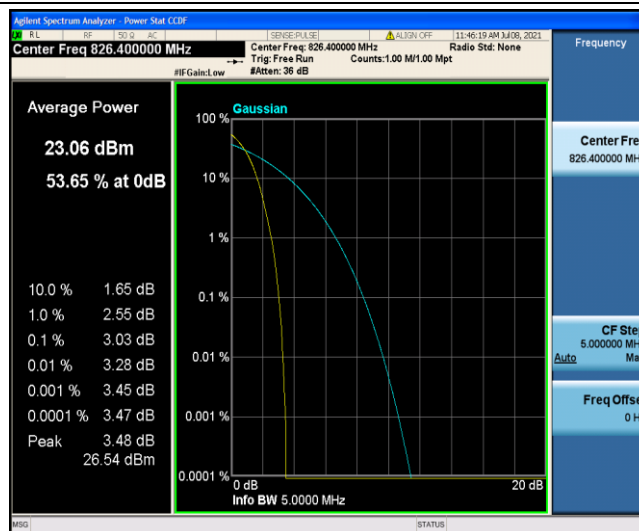
Band II\_9262



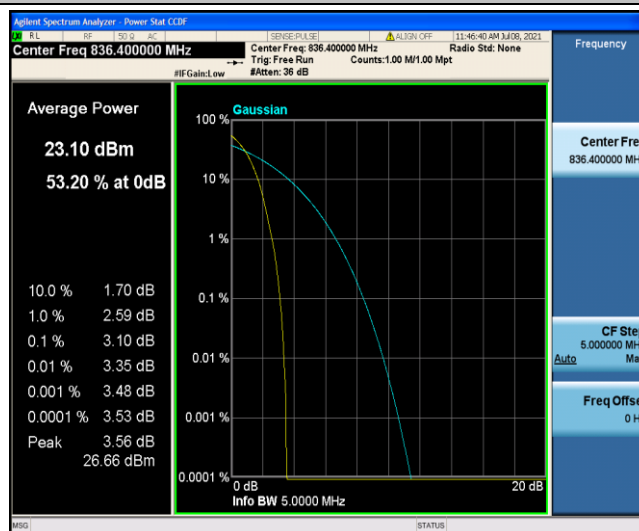
Band II\_9400



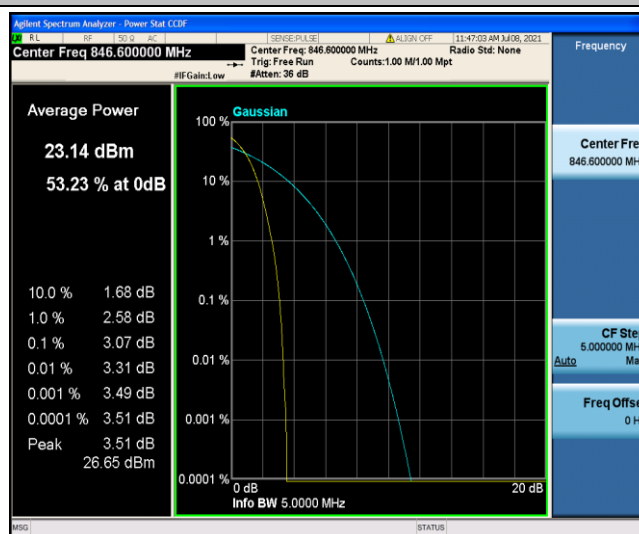
Band II\_9538



Band V\_4132



Band V\_4182



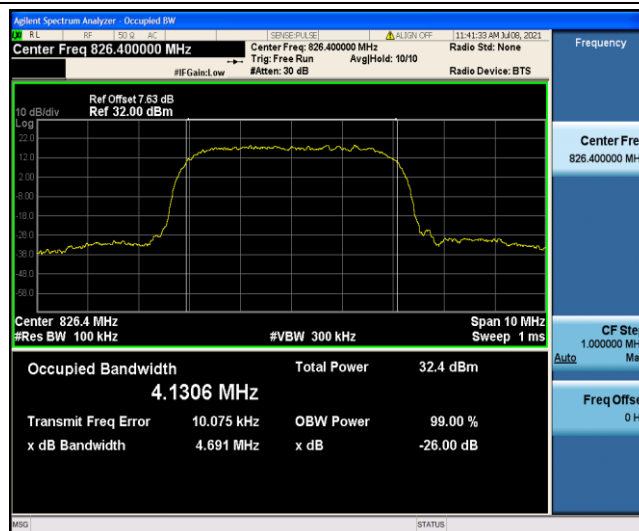
Band V\_4233

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

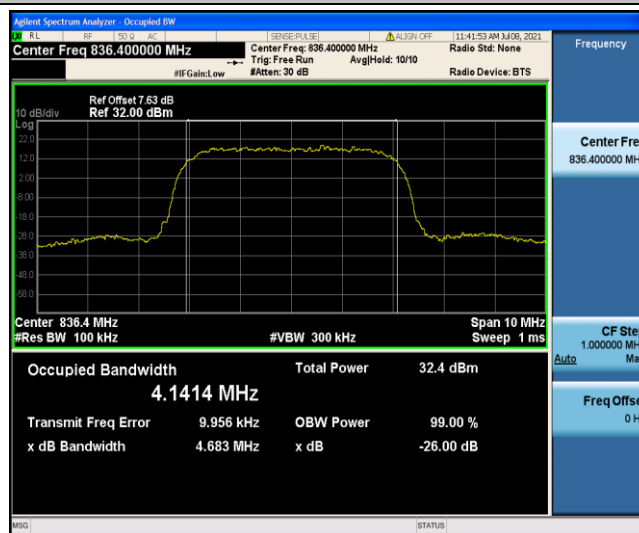
## Test Result

| Band    | Channel | Occupied Bandwidth<br>(kHz) | 26dB Bandwidth<br>(kHz) | Limit(kHz) | Verdict |
|---------|---------|-----------------------------|-------------------------|------------|---------|
| Band II | 9262    | 4160.2                      | 4704                    | ---        | PASS    |
| Band II | 9400    | 4164.5                      | 4695                    | ---        | PASS    |
| Band II | 9538    | 4172.4                      | 4713                    | ---        | PASS    |
| Band V  | 4132    | 4130.6                      | 4691                    | ---        | PASS    |
| Band V  | 4182    | 4141.4                      | 4683                    | ---        | PASS    |
| Band V  | 4233    | 4147.1                      | 4687                    | ---        | PASS    |

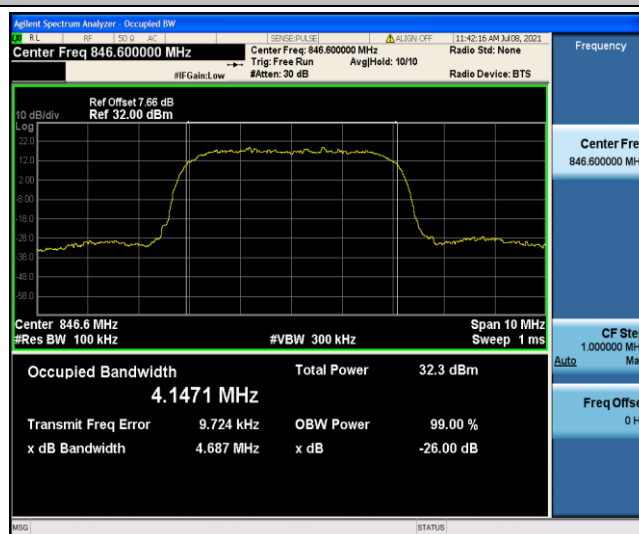




Band V\_4132



Band V\_4182



Band V\_4233

#### 8.4 Appendix D: Band Edge

##### Test Result

| Band    | Channel | Value(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|------------|---------|
| Band II | 9262    | -22.02     | -13        | PASS    |
| Band II | 9538    | -21.16     | -13        | PASS    |
| Band V  | 4132    | -26.22     | -13        | PASS    |
| Band V  | 4233    | -25.63     | -13        | PASS    |

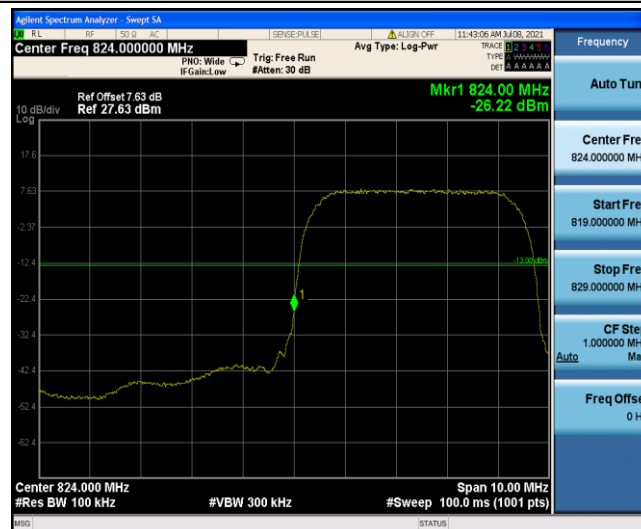
## Test Graphs



Band II\_9262



Band II\_9538



Band V\_4132



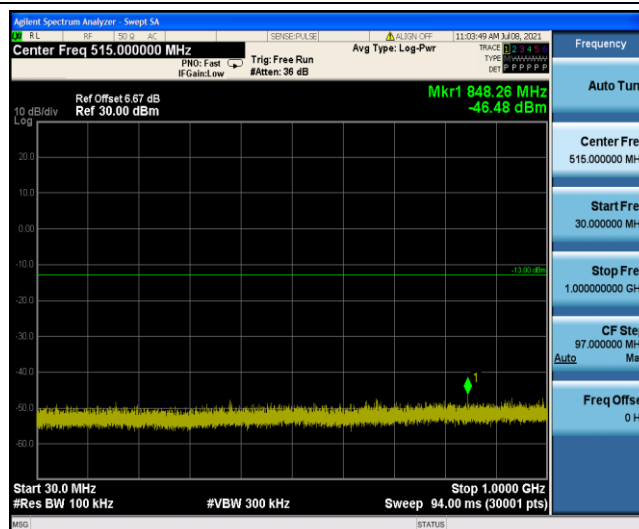
Band V\_4233

**8.5 Appendix E: Conducted Spurious Emission**

## Test Result

| Band    | Channel | Frequency Rang(Mhz) | Value(dBm) | Limit(dBm) | Verdict |
|---------|---------|---------------------|------------|------------|---------|
| Band II | 9262    | 30~1000             | -46.48     | -13        | PASS    |
| Band II | 9262    | 1000~20000          | -26.26     | -13        | PASS    |
| Band II | 9400    | 30~1000             | -47.00     | -13        | PASS    |
| Band II | 9400    | 1000~20000          | -26.06     | -13        | PASS    |
| Band II | 9538    | 30~1000             | -46.47     | -13        | PASS    |
| Band II | 9538    | 1000~20000          | -25.52     | -13        | PASS    |
| Band V  | 4132    | 30~1000             | -47.40     | -13        | PASS    |
| Band V  | 4132    | 1000~10000          | -32.21     | -13        | PASS    |
| Band V  | 4182    | 30~1000             | -47.14     | -13        | PASS    |
| Band V  | 4182    | 1000~10000          | -32.37     | -13        | PASS    |
| Band V  | 4233    | 30~1000             | -46.80     | -13        | PASS    |
| Band V  | 4233    | 1000~10000          | -32.70     | -13        | PASS    |

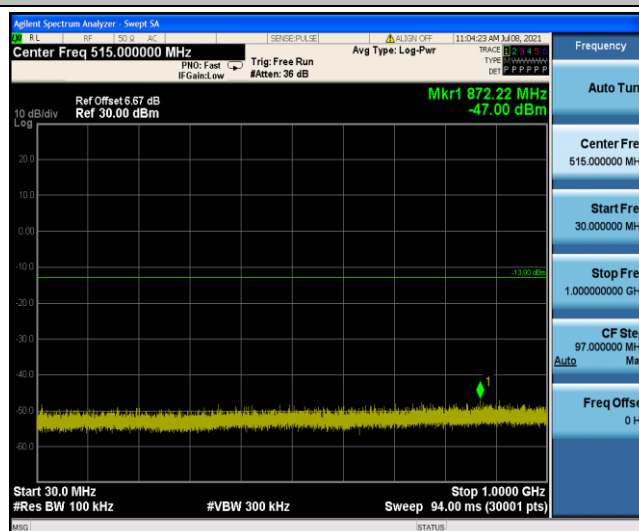
## Test Graphs



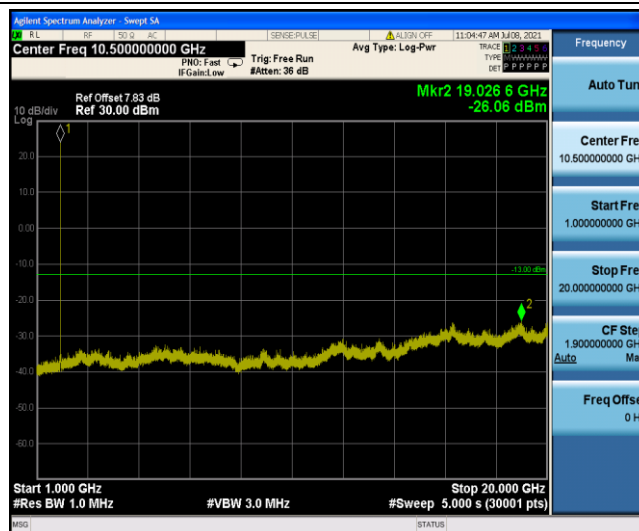
Band II\_9262



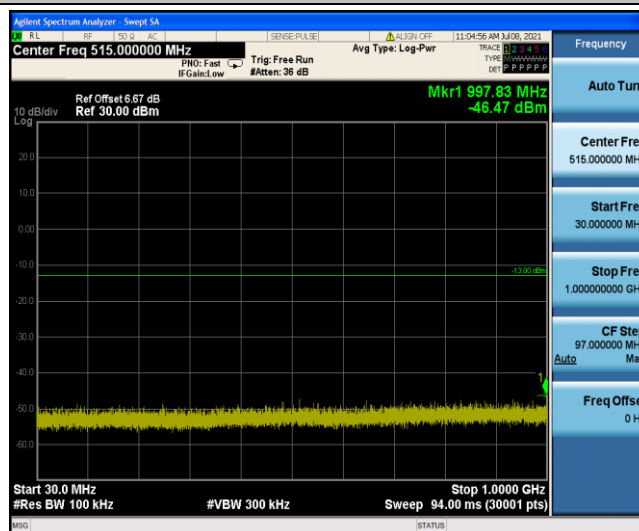
Band II\_9262



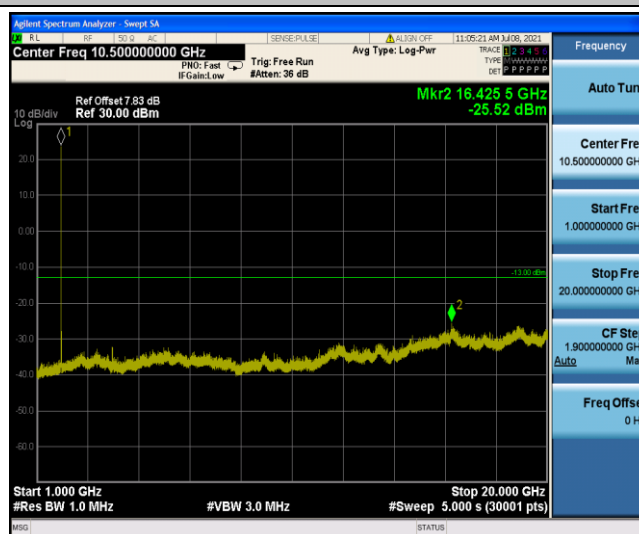
Band II\_9400



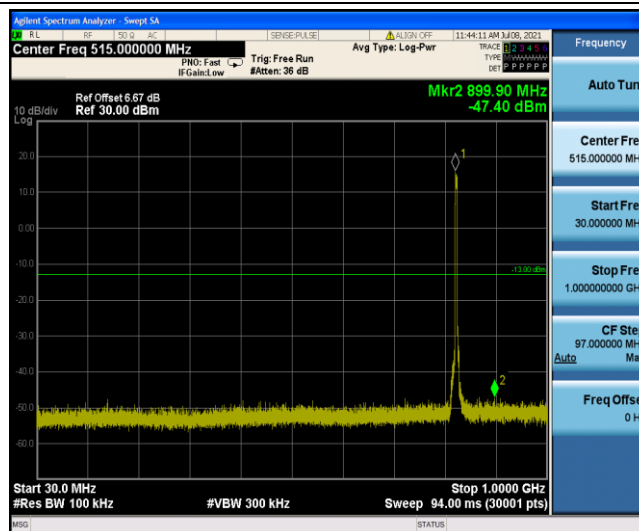
Band II\_9400



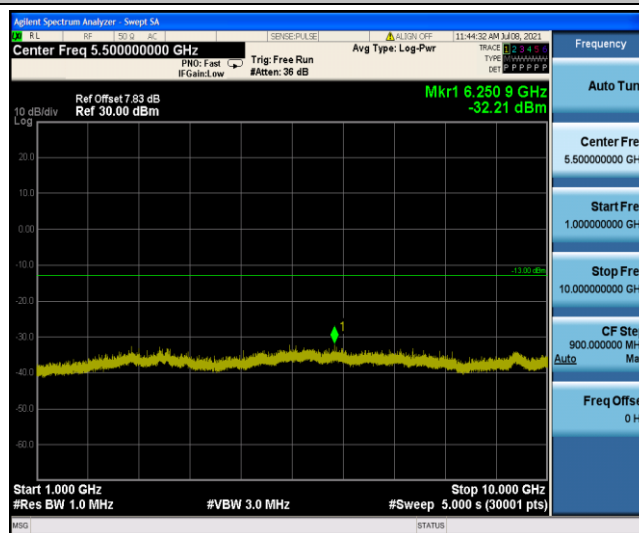
Band II\_9538



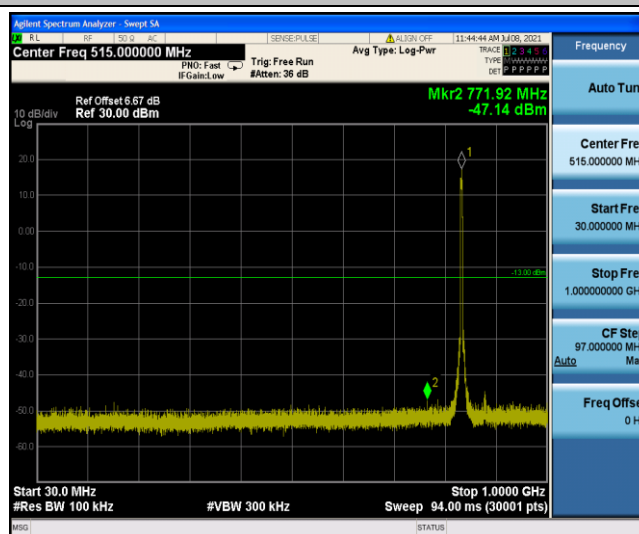
Band II\_9538



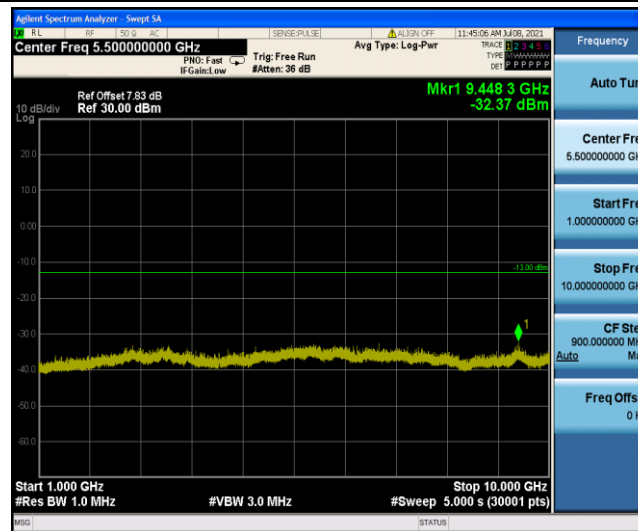
Band V\_4132



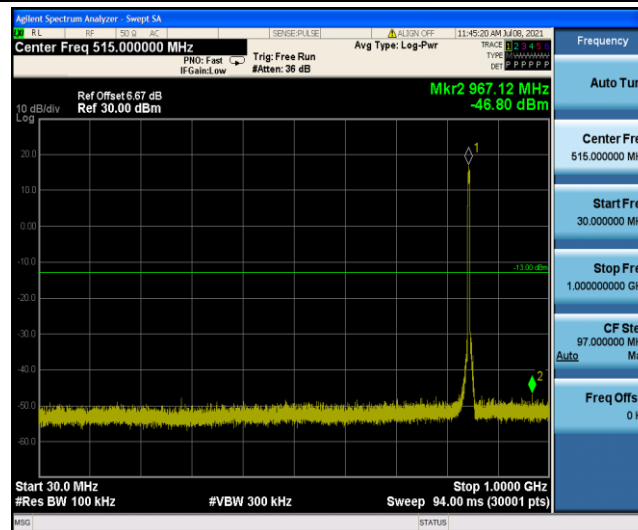
Band V\_4132



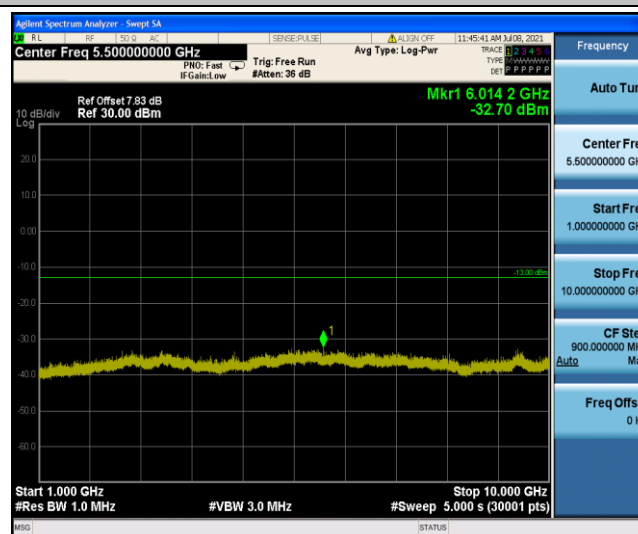
Band V\_4182



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               | 3.08           | 0.001663        | 2.5         | PASS    |
| Band II | 9262    | VN            | TN               | 1.30           | 0.000702        | 2.5         | PASS    |
| Band II | 9262    | VH            | TN               | -1.68          | -0.000907       | 2.5         | PASS    |
| Band II | 9400    | VL            | TN               | 2.61           | 0.001388        | 2.5         | PASS    |
| Band II | 9400    | VN            | TN               | 0.07           | 0.000037        | 2.5         | PASS    |
| Band II | 9400    | VH            | TN               | 1.01           | 0.000537        | 2.5         | PASS    |
| Band II | 9538    | VL            | TN               | -8.88          | -0.004655       | 2.5         | PASS    |
| Band II | 9538    | VN            | TN               | 5.66           | 0.002967        | 2.5         | PASS    |
| Band II | 9538    | VH            | TN               | 4.39           | 0.002301        | 2.5         | PASS    |
| Band V  | 4132    | VL            | TN               | -1.63          | -0.001972       | 2.5         | PASS    |
| Band V  | 4132    | VN            | TN               | -0.64          | -0.000774       | 2.5         | PASS    |
| Band V  | 4132    | VH            | TN               | -0.59          | -0.000714       | 2.5         | PASS    |
| Band V  | 4182    | VL            | TN               | -0.02          | -0.000024       | 2.5         | PASS    |
| Band V  | 4182    | VN            | TN               | 0.12           | 0.000143        | 2.5         | PASS    |
| Band V  | 4182    | VH            | TN               | 1.80           | 0.002152        | 2.5         | PASS    |
| Band V  | 4233    | VL            | TN               | 1.24           | 0.001465        | 2.5         | PASS    |
| Band V  | 4233    | VN            | TN               | 1.00           | 0.001181        | 2.5         | PASS    |
| Band V  | 4233    | VH            | TN               | 0.21           | 0.000248        | 2.5         | PASS    |

| Temperature |         |               |                  |                |                 |             |         |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band II     | 9262    | VN            | -30              | 0.44           | 0.000238        | 2.5         | PASS    |
| Band II     | 9262    | VN            | -20              | 2.17           | 0.001171        | 2.5         | PASS    |
| Band II     | 9262    | VN            | -10              | 2.80           | 0.001512        | 2.5         | PASS    |
| Band II     | 9262    | VN            | 0                | 3.10           | 0.001674        | 2.5         | PASS    |
| Band II     | 9262    | VN            | 10               | 3.51           | 0.001895        | 2.5         | PASS    |
| Band II     | 9262    | VN            | 20               | 2.51           | 0.001355        | 2.5         | PASS    |
| Band II     | 9262    | VN            | 30               | 0.03           | 0.000016        | 2.5         | PASS    |
| Band II     | 9262    | VN            | 40               | 1.21           | 0.000653        | 2.5         | PASS    |
| Band II     | 9262    | VN            | 50               | 0.94           | 0.000507        | 2.5         | PASS    |
| Band II     | 9400    | VN            | -30              | 4.28           | 0.002277        | 2.5         | PASS    |
| Band II     | 9400    | VN            | -20              | 1.90           | 0.001011        | 2.5         | PASS    |
| Band II     | 9400    | VN            | -10              | -12.40         | -0.006596       | 2.5         | PASS    |
| Band II     | 9400    | VN            | 0                | -12.28         | -0.006532       | 2.5         | PASS    |
| Band II     | 9400    | VN            | 10               | -11.99         | -0.006378       | 2.5         | PASS    |
| Band II     | 9400    | VN            | 20               | -8.99          | -0.004782       | 2.5         | PASS    |
| Band II     | 9400    | VN            | 30               | -11.89         | -0.006324       | 2.5         | PASS    |
| Band II     | 9400    | VN            | 40               | -10.18         | -0.005415       | 2.5         | PASS    |
| Band II     | 9400    | VN            | 50               | -6.10          | -0.003245       | 2.5         | PASS    |
| Band II     | 9538    | VN            | -30              | -3.27          | -0.001714       | 2.5         | PASS    |
| Band II     | 9538    | VN            | -20              | -0.97          | -0.000508       | 2.5         | PASS    |
| Band II     | 9538    | VN            | -10              | -5.26          | -0.002757       | 2.5         | PASS    |
| Band II     | 9538    | VN            | 0                | -5.22          | -0.002736       | 2.5         | PASS    |
| Band II     | 9538    | VN            | 10               | -5.03          | -0.002637       | 2.5         | PASS    |
| Band II     | 9538    | VN            | 20               | -5.82          | -0.003051       | 2.5         | PASS    |
| Band II     | 9538    | VN            | 30               | -5.56          | -0.002915       | 2.5         | PASS    |
| Band II     | 9538    | VN            | 40               | -2.76          | -0.001447       | 2.5         | PASS    |
| Band II     | 9538    | VN            | 50               | -4.85          | -0.002542       | 2.5         | PASS    |
| Band V      | 4132    | VN            | -30              | -3.95          | -0.004780       | 2.5         | PASS    |
| Band V      | 4132    | VN            | -20              | -3.92          | -0.004743       | 2.5         | PASS    |
| Band V      | 4132    | VN            | -10              | -3.20          | -0.003872       | 2.5         | PASS    |
| Band V      | 4132    | VN            | 0                | -3.23          | -0.003909       | 2.5         | PASS    |
| Band V      | 4132    | VN            | 10               | -2.66          | -0.003219       | 2.5         | PASS    |
| Band V      | 4132    | VN            | 20               | -2.61          | -0.003158       | 2.5         | PASS    |
| Band V      | 4132    | VN            | 30               | -1.37          | -0.001658       | 2.5         | PASS    |
| Band V      | 4132    | VN            | 40               | 0.17           | 0.000206        | 2.5         | PASS    |
| Band V      | 4132    | VN            | 50               | -1.29          | -0.001561       | 2.5         | PASS    |
| Band V      | 4182    | VN            | -30              | -0.65          | -0.000777       | 2.5         | PASS    |
| Band V      | 4182    | VN            | -20              | -0.09          | -0.000108       | 2.5         | PASS    |
| Band V      | 4182    | VN            | -10              | -3.27          | -0.003910       | 2.5         | PASS    |
| Band V      | 4182    | VN            | 0                | 0.45           | 0.000538        | 2.5         | PASS    |
| Band V      | 4182    | VN            | 10               | 0.39           | 0.000466        | 2.5         | PASS    |
| Band V      | 4182    | VN            | 20               | 0.92           | 0.001100        | 2.5         | PASS    |
| Band V      | 4182    | VN            | 30               | -0.54          | -0.000646       | 2.5         | PASS    |
| Band V      | 4182    | VN            | 40               | -0.62          | -0.000741       | 2.5         | PASS    |
| Band V      | 4182    | VN            | 50               | 1.99           | 0.002379        | 2.5         | PASS    |
| Band V      | 4233    | VN            | -30              | 0.72           | 0.000850        | 2.5         | PASS    |

|        |      |    |     |       |           |     |      |
|--------|------|----|-----|-------|-----------|-----|------|
| Band V | 4233 | VN | -20 | -0.28 | -0.000331 | 2.5 | PASS |
| Band V | 4233 | VN | -10 | 0.50  | 0.000591  | 2.5 | PASS |
| Band V | 4233 | VN | 0   | -0.53 | -0.000626 | 2.5 | PASS |
| Band V | 4233 | VN | 10  | 0.60  | 0.000709  | 2.5 | PASS |
| Band V | 4233 | VN | 20  | 0.41  | 0.000484  | 2.5 | PASS |
| Band V | 4233 | VN | 30  | 1.14  | 0.001347  | 2.5 | PASS |
| Band V | 4233 | VN | 40  | 0.26  | 0.000307  | 2.5 | PASS |
| Band V | 4233 | VN | 50  | -0.36 | -0.000425 | 2.5 | PASS |

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