



# Appendix B

## WCDMA Band II & V



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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

| Band    | Channel | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|---------|---------|-----------------------|------------|------------|---------|
| Band II | 9262    | 23.08                 | 17.08      | 33.00      | PASS    |
| Band II | 9400    | 23.12                 | 17.12      | 33.00      | PASS    |
| Band II | 9538    | 23.21                 | 17.21      | 33.00      | PASS    |

| Band   | Channel | Conducted Power (dBm) | ERP (dBm) | Limit(dBm) | Verdict |
|--------|---------|-----------------------|-----------|------------|---------|
| Band V | 4132    | 24.02                 | 14.87     | 38.45      | PASS    |
| Band V | 4182    | 24.00                 | 14.85     | 38.45      | PASS    |
| Band V | 4233    | 24.05                 | 14.9      | 38.45      | PASS    |

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$

$EIRP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$



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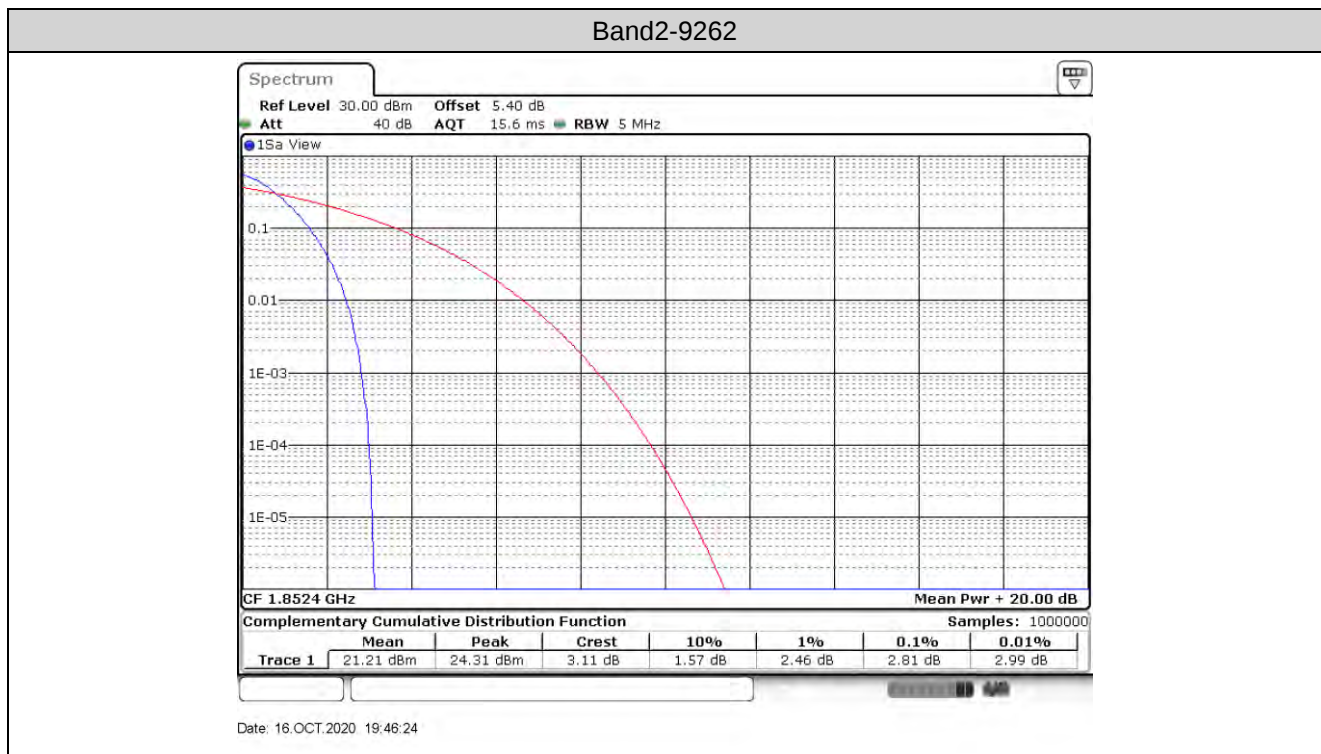


## 2. Peak-to-Average Ratio(CCDF)

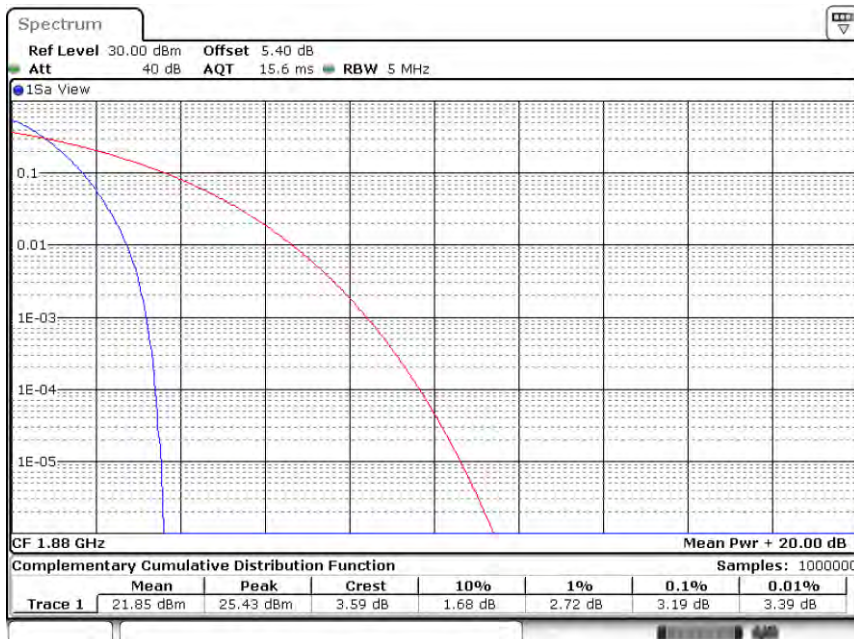
### 2.1. Test Result

| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------------------------|-----------|---------|
| Band2 | 9262    | 2.81                      | 13        | PASS    |
| Band2 | 9400    | 3.19                      | 13        | PASS    |
| Band2 | 9538    | 2.99                      | 13        | PASS    |
| Band5 | 4132    | 2.7                       | 13        | PASS    |
| Band5 | 4182    | 3.42                      | 13        | PASS    |
| Band5 | 4233    | 2.72                      | 13        | PASS    |

### 2.2. Test Plots



## Band2-9400



Date: 16.OCT.2020 19:46:36

## Band2-9538



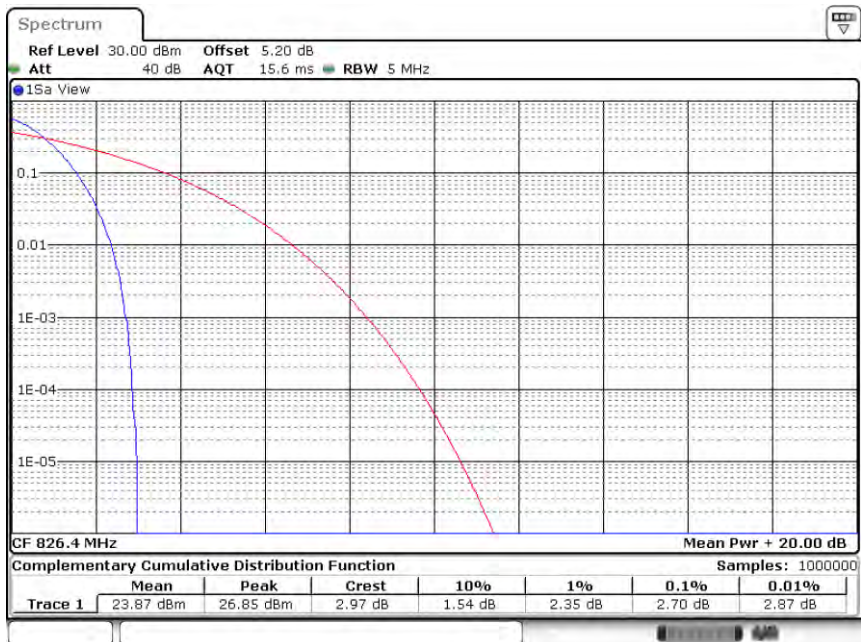
Date: 16.OCT.2020 19:46:49



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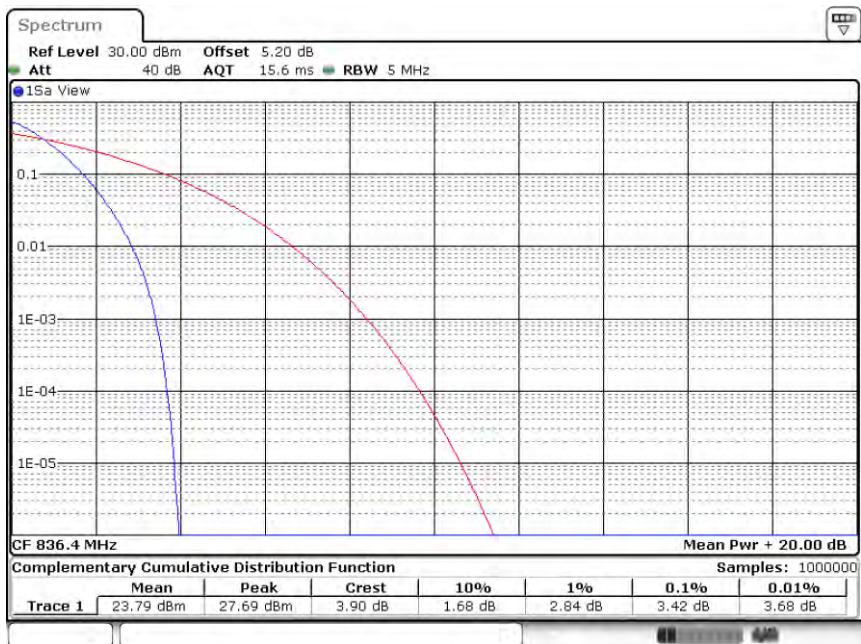
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## Band5-4132



Date: 16.OCT.2020 20:03:27

## Band5-4182



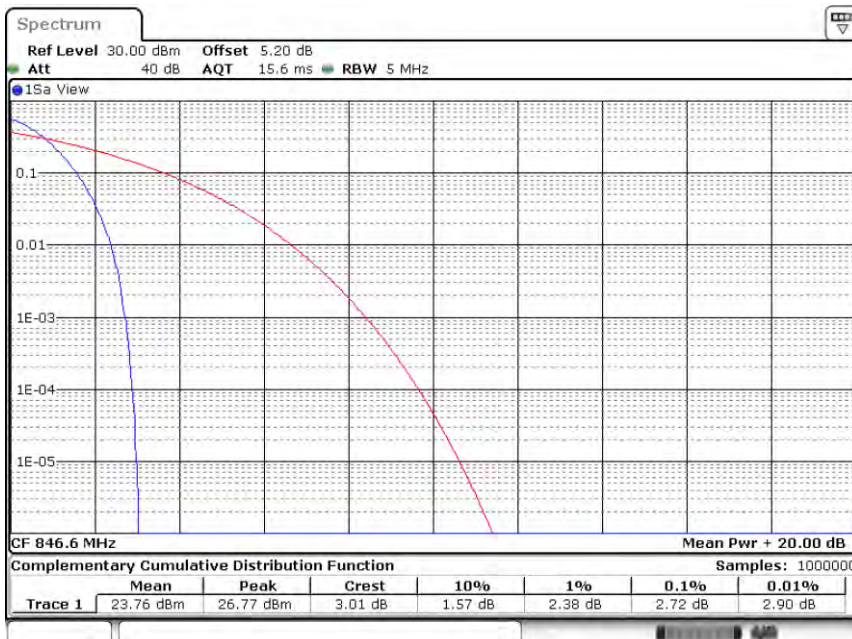
Date: 16.OCT.2020 20:03:40



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## Band5-4233



Date: 16.OCT.2020 20:03:52

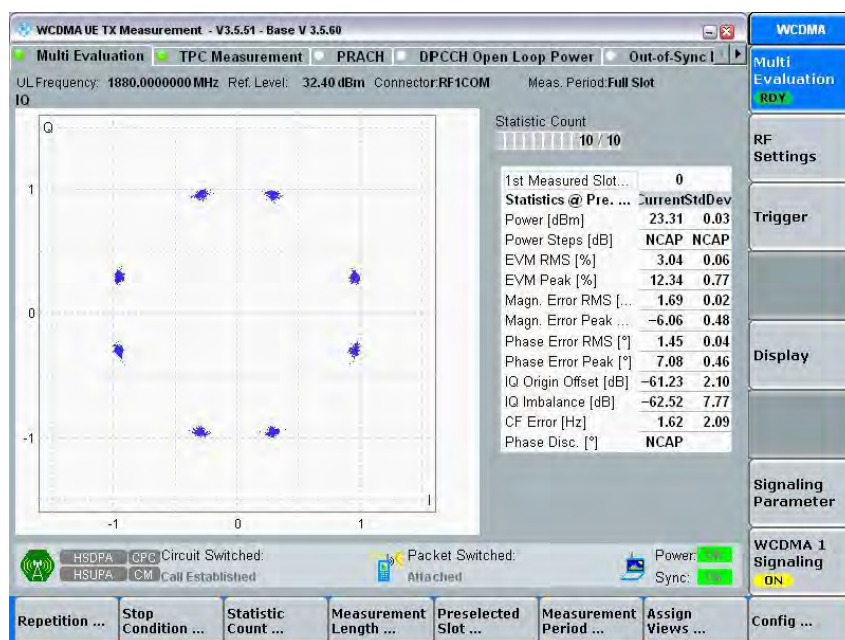


### 3. Modulation Characteristics

#### 3.1. Test Band = WCDMA Band II

##### 3.1.1. Test Mode = UMTS/TM1

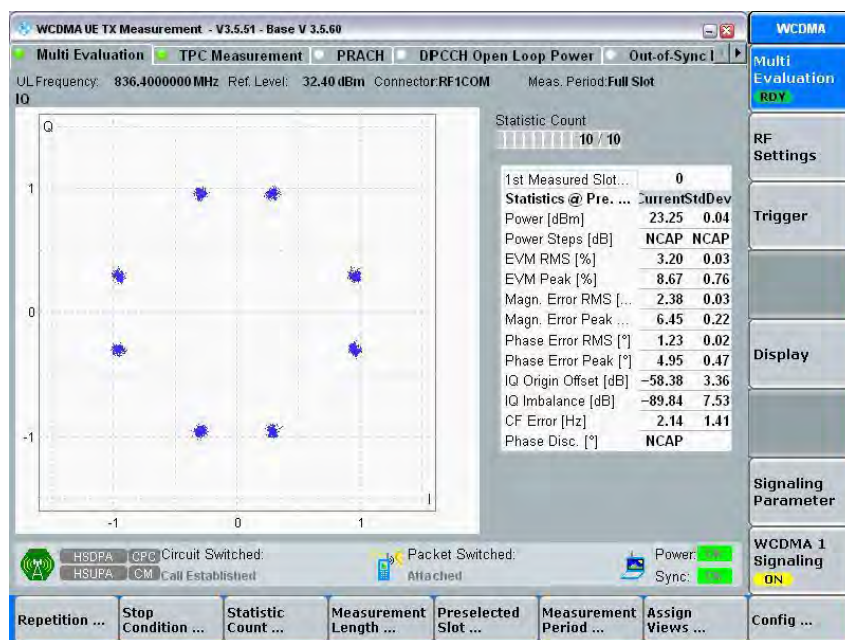
##### 3.1.1.1. Test Channel = MCH



## 3.2. Test Band = WCDMA Band V

### 3.2.1. Test Mode = UMTS/TM1

#### 3.2.1.1. Test Channel = MCH

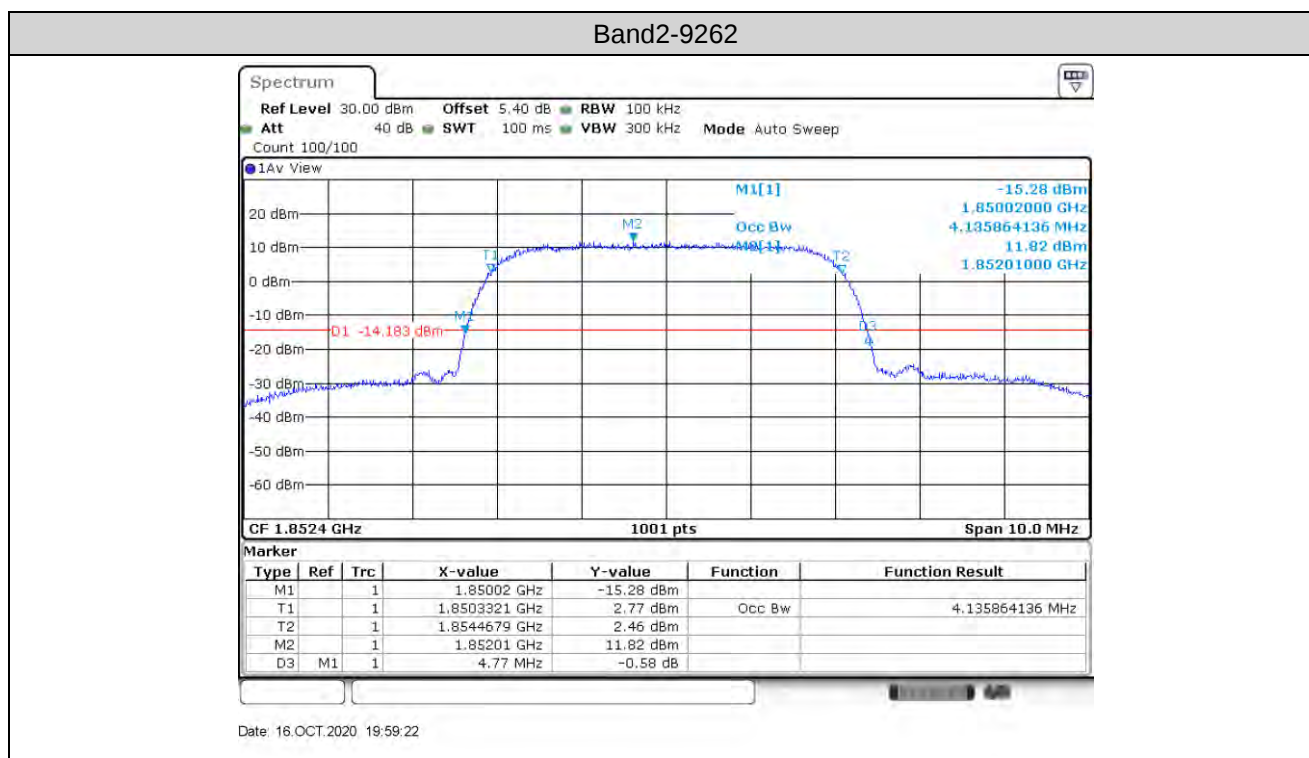


## 4. 26dB Bandwidth and Occupied Bandwidth

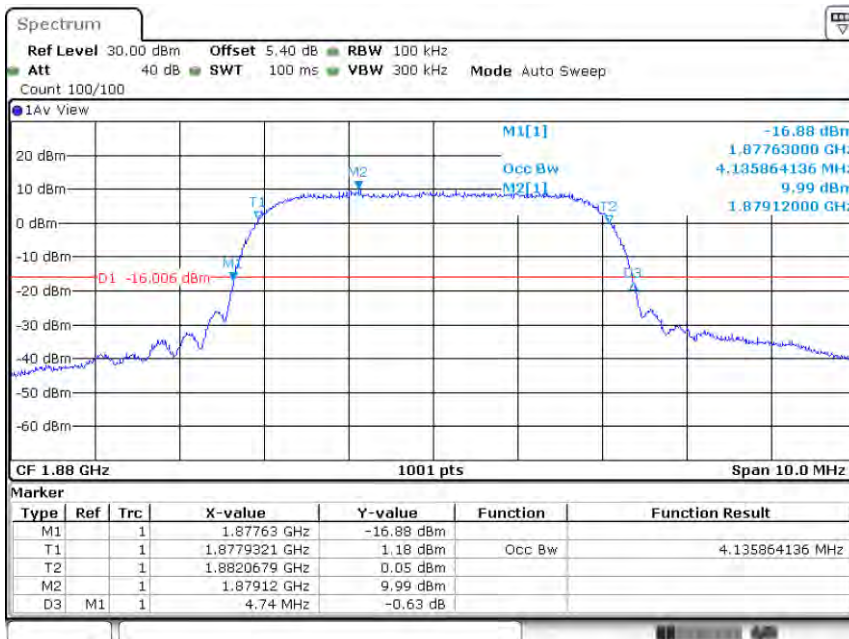
### 4.1. Test Result

| Band  | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit(MHz) | Verdict |
|-------|---------|--------------------------|----------------------|------------|---------|
| Band2 | 9262    | 4.136                    | 4.770                | ---        | PASS    |
| Band2 | 9400    | 4.136                    | 4.740                | ---        | PASS    |
| Band2 | 9538    | 4.126                    | 4.740                | ---        | PASS    |
| Band5 | 4132    | 4.136                    | 4.770                | ---        | PASS    |
| Band5 | 4182    | 4.126                    | 4.720                | ---        | PASS    |
| Band5 | 4233    | 4.146                    | 4.760                | ---        | PASS    |

### 4.2. Test Plots

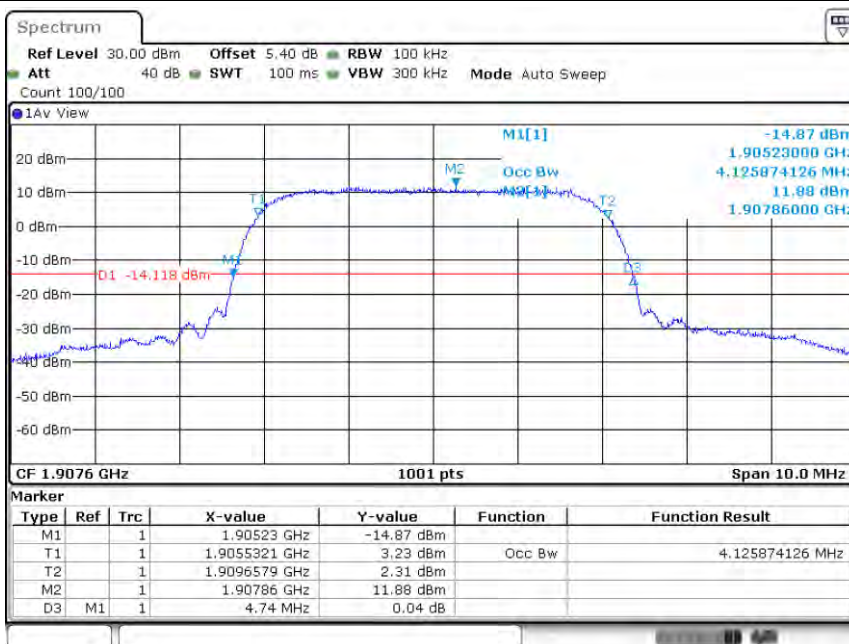


## Band2-9400



Date: 16.OCT.2020 19:59:44

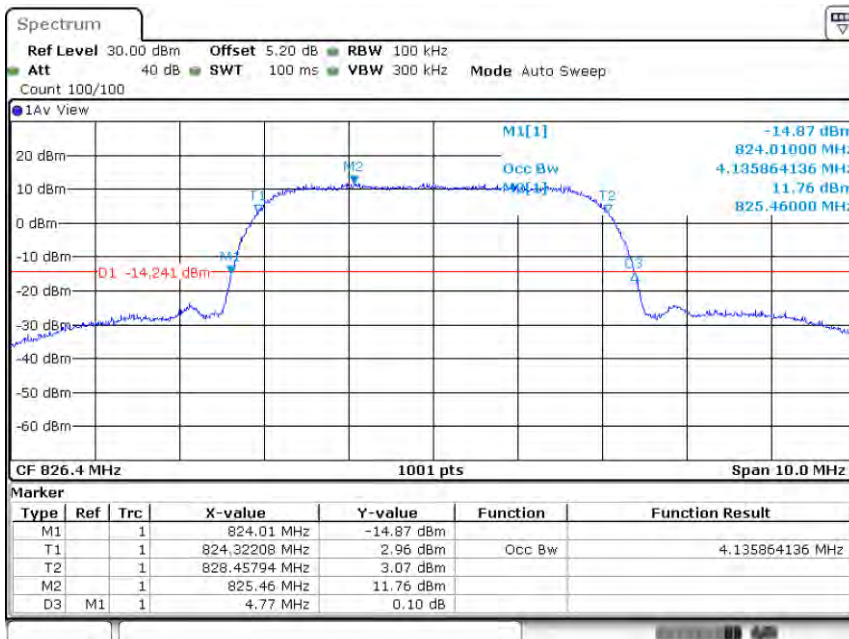
## Band2-9538



Date: 16.OCT.2020 20:00:05

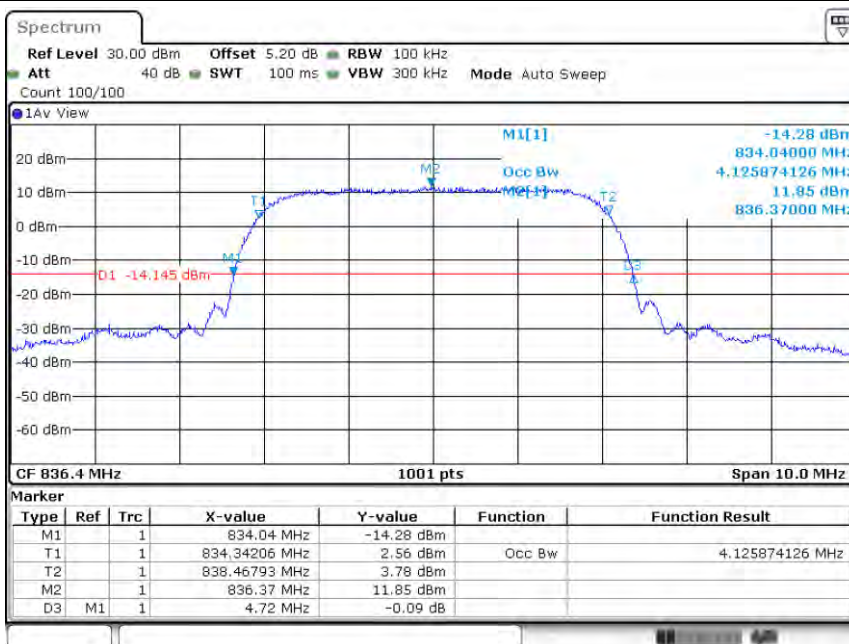


## Band5-4132



Date: 16.OCT.2020 20:16:27

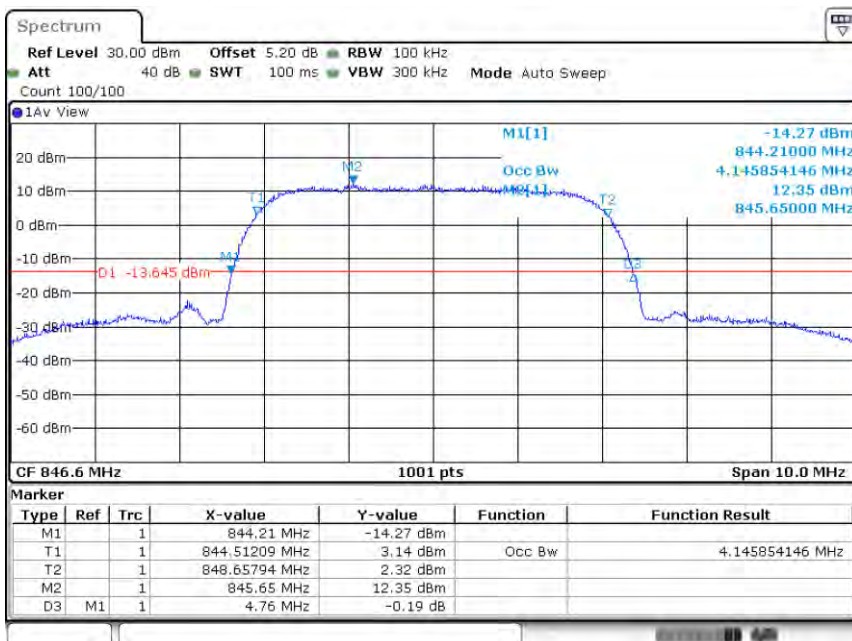
## Band5-4182



Date: 16.OCT.2020 20:16:49



## Band5-4233



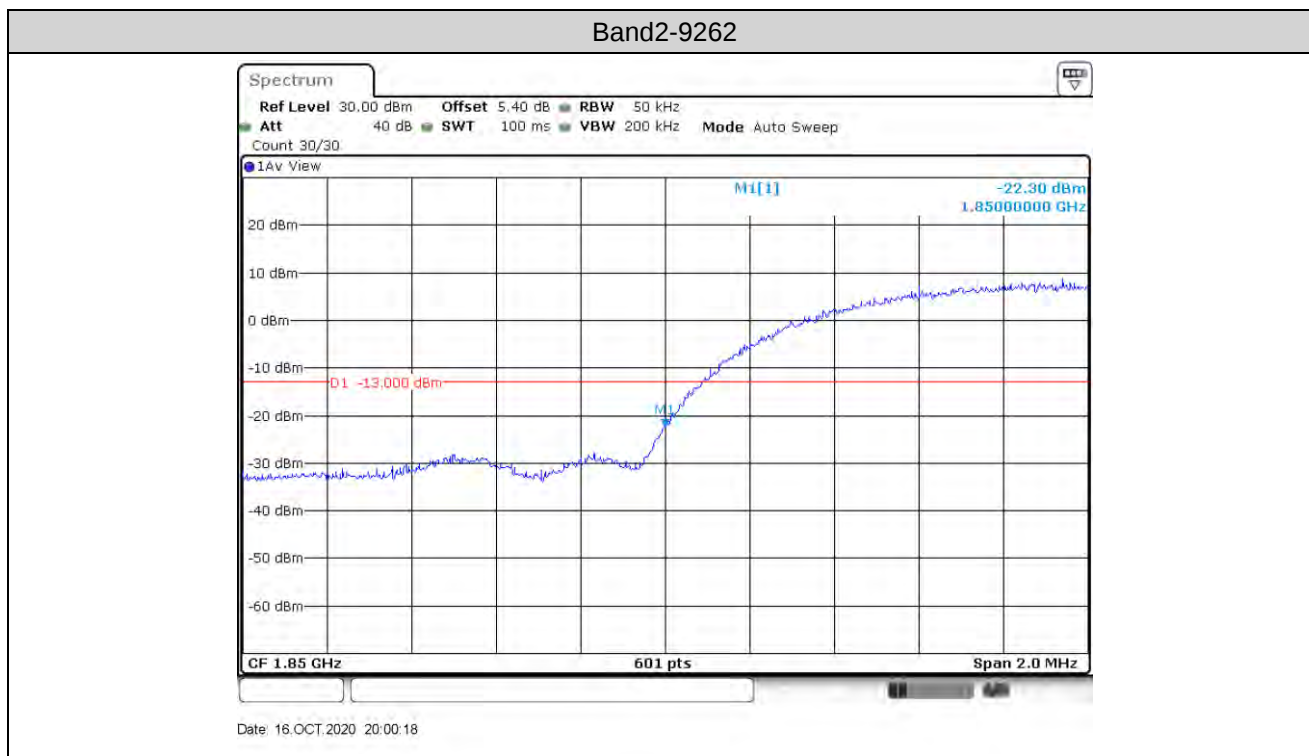
Date: 16.OCT.2020 20:17:10





## 5. Band Edge Compliance

### 5.1. Test Plots



## Band2-9538



Date: 16.OCT.2020 20:00:32

## Band5-4132

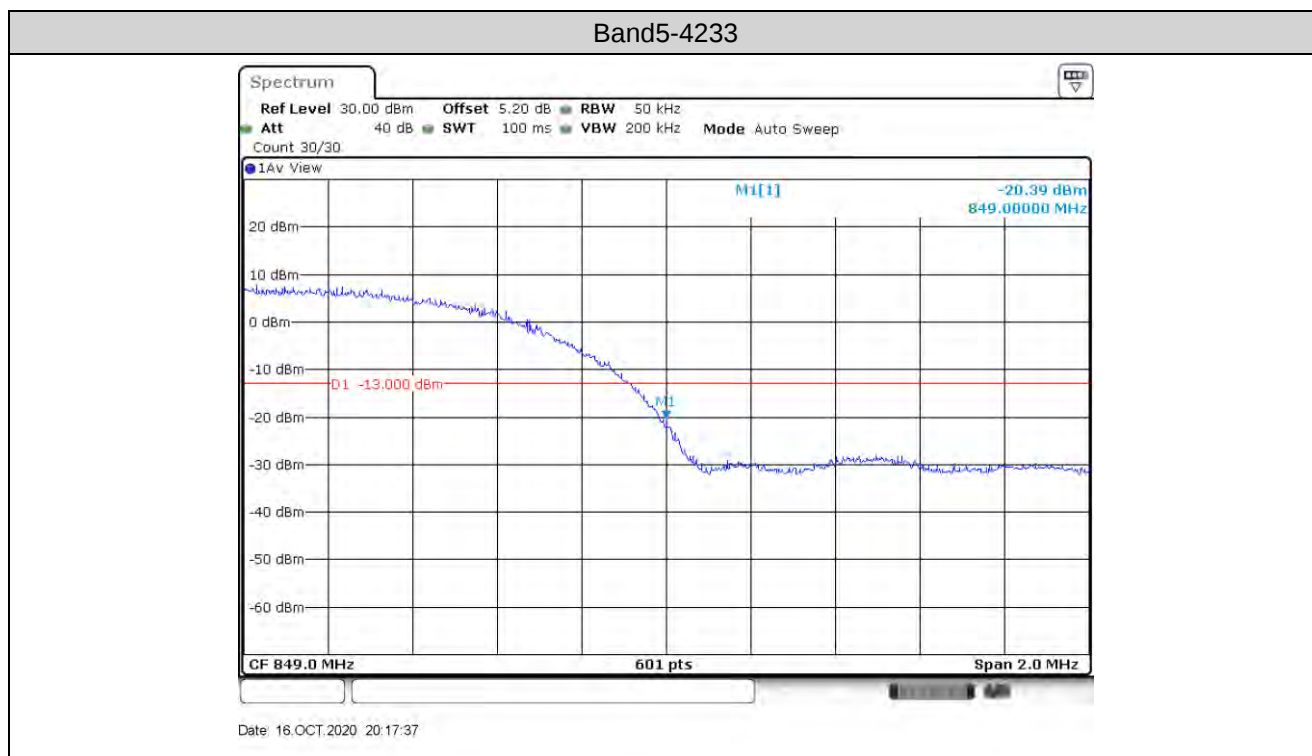


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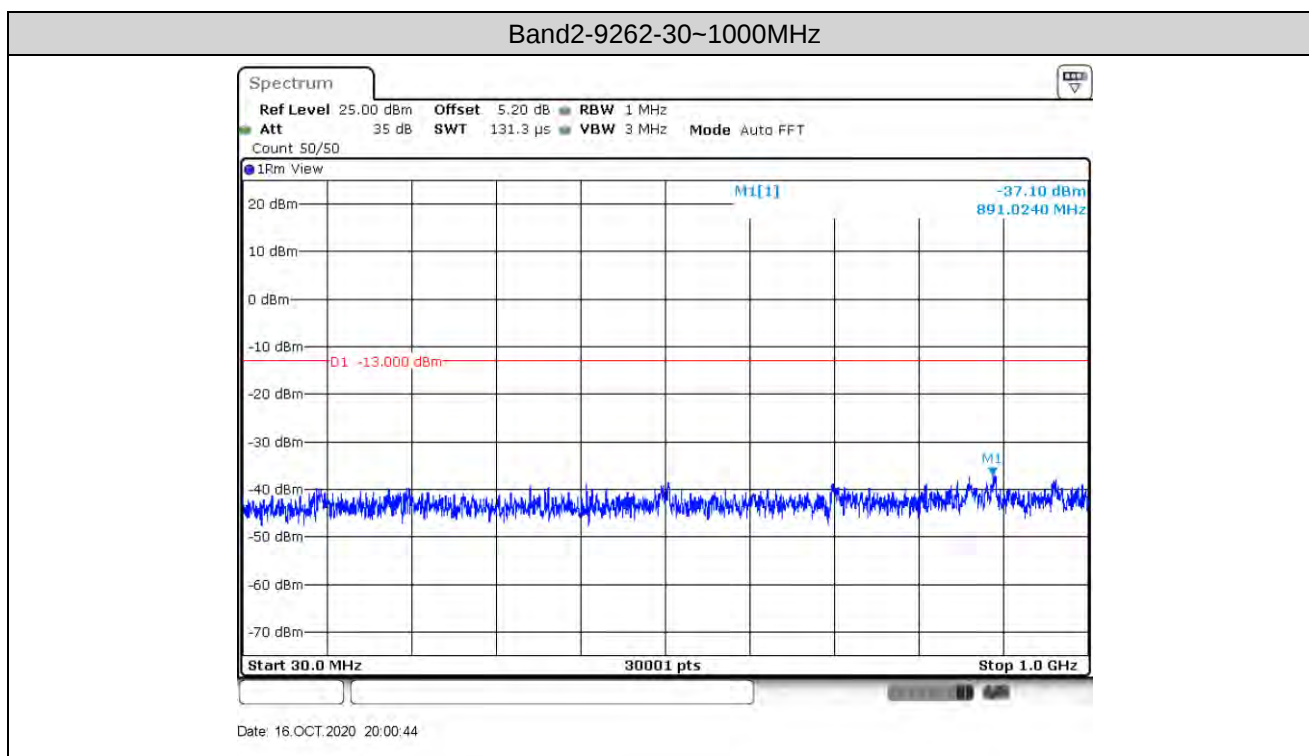


## 6. Spurious Emission at Antenna Terminal

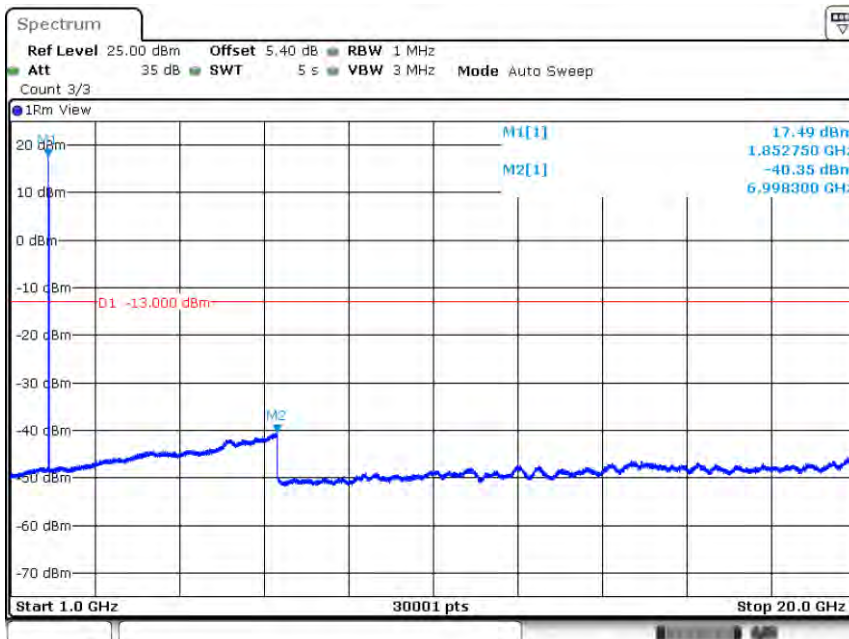
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

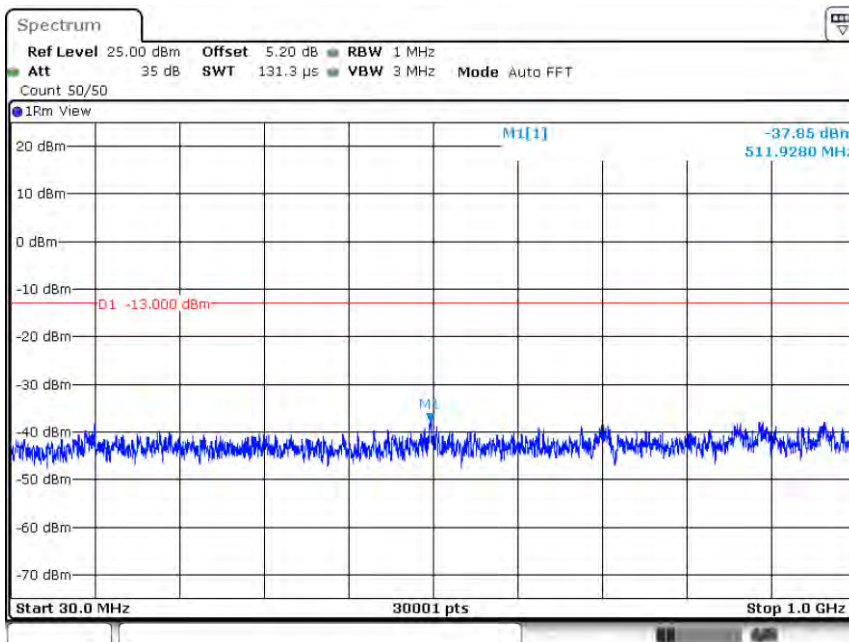


**Band2-9262-1000~20000MHz**



Date: 16.OCT.2020 20:01:08

**Band2-9400-30~1000MHz**



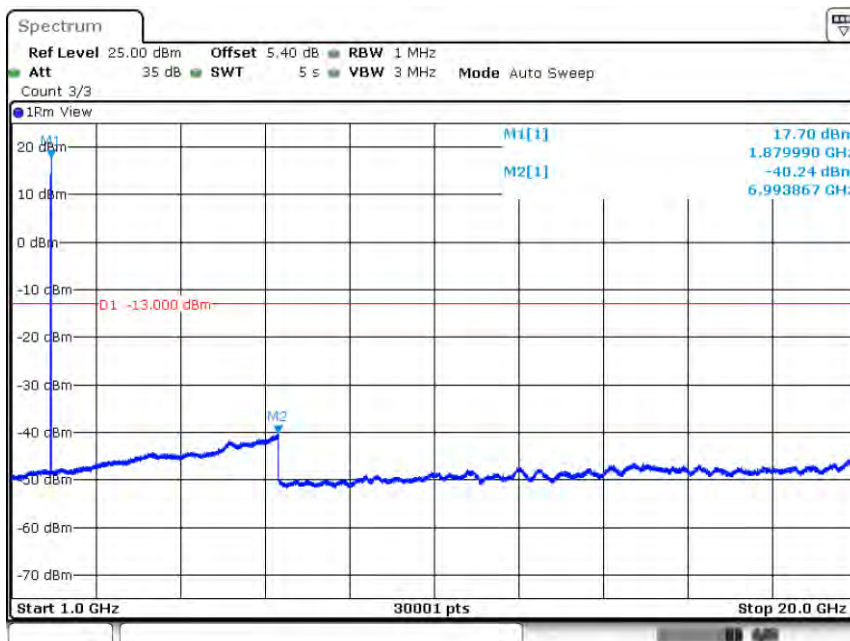
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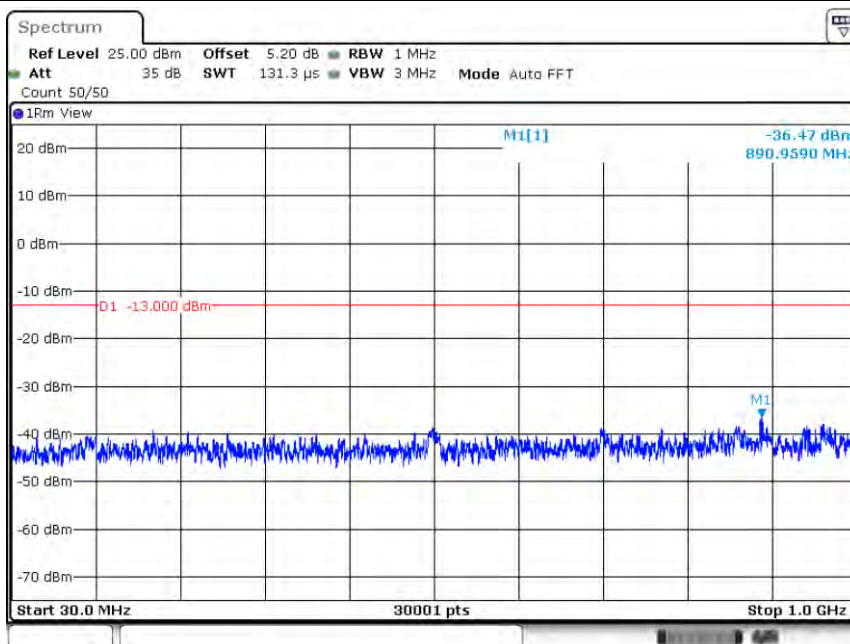
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**Band2-9400-1000~20000MHz**



Date: 16.OCT.2020 20:01:43

**Band2-9538-30~1000MHz**



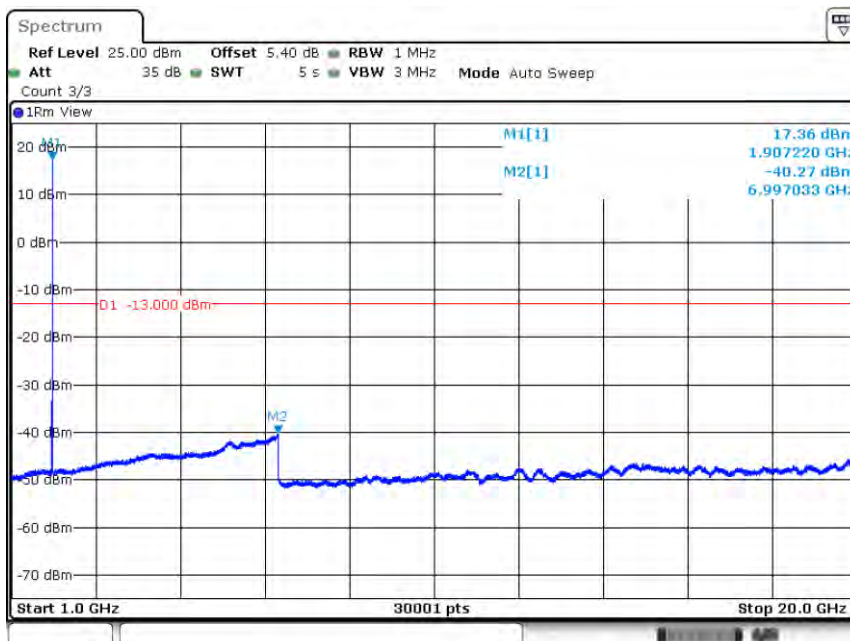
Date: 16.OCT.2020 20:01:56



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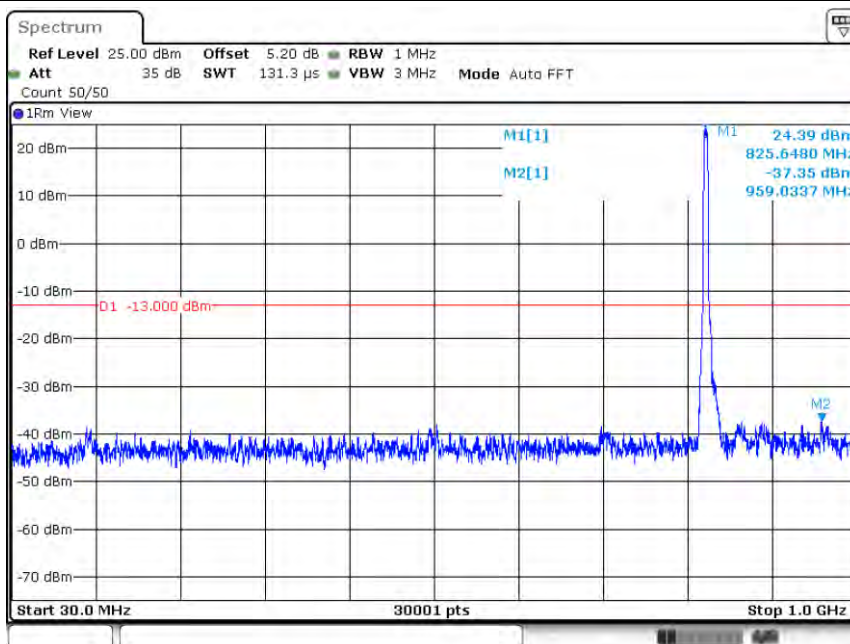
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**Band2-9538-1000~20000MHz**



Date: 16.OCT.2020 20:02:19

**Band5-4132-30~1000MHz**



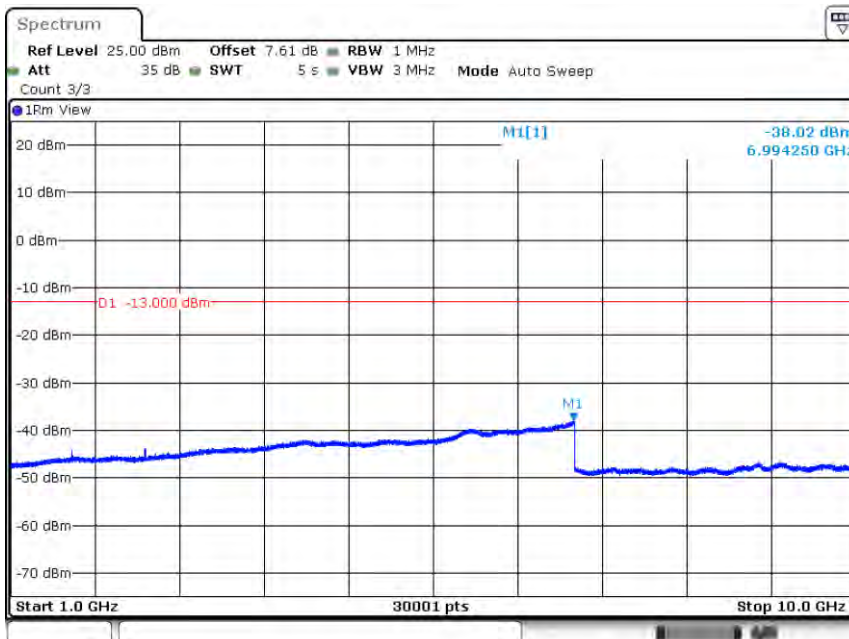
Date: 16.OCT.2020 20:17:50



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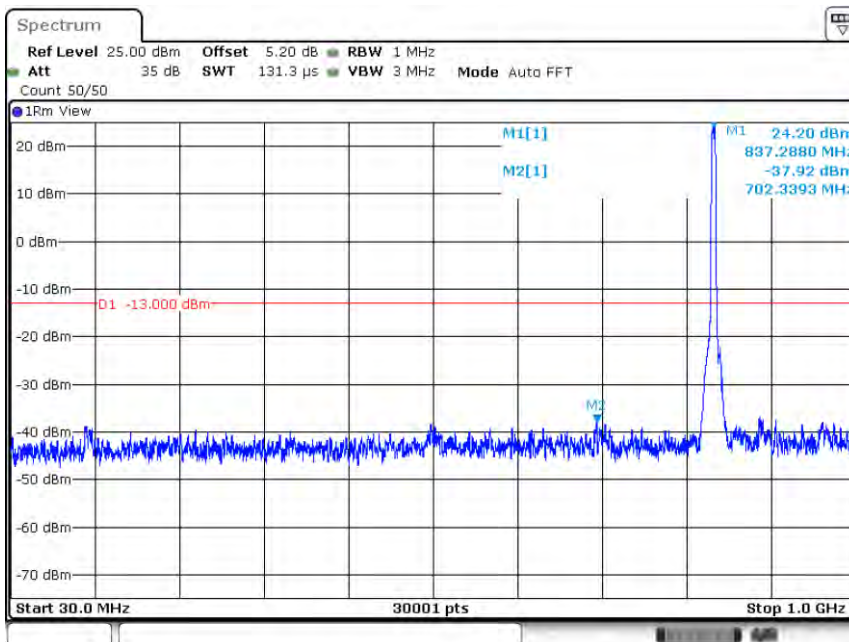
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**Band5-4132-1000~10000MHz**



Date: 16.OCT.2020 20:18:13

**Band5-4182-30~1000MHz**



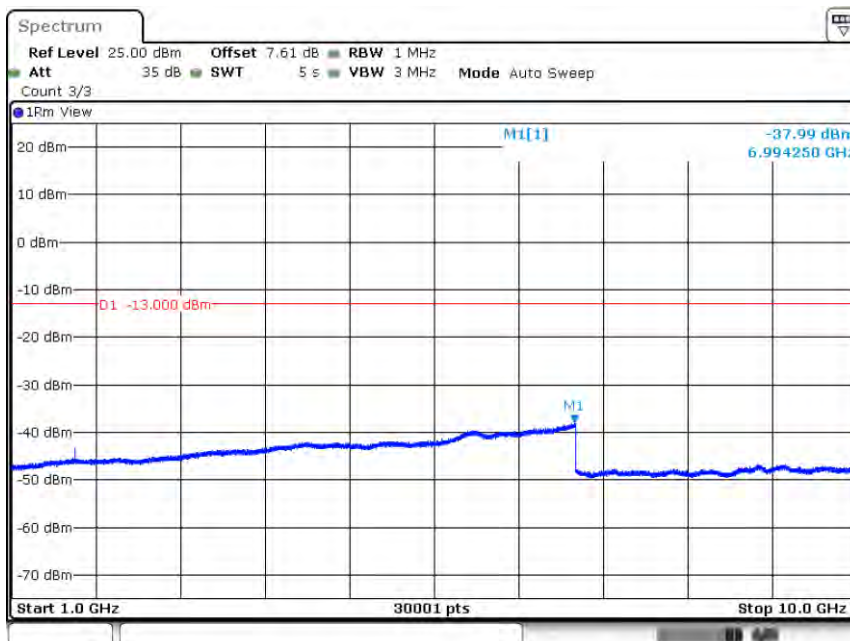
Date: 16.OCT.2020 20:18:26



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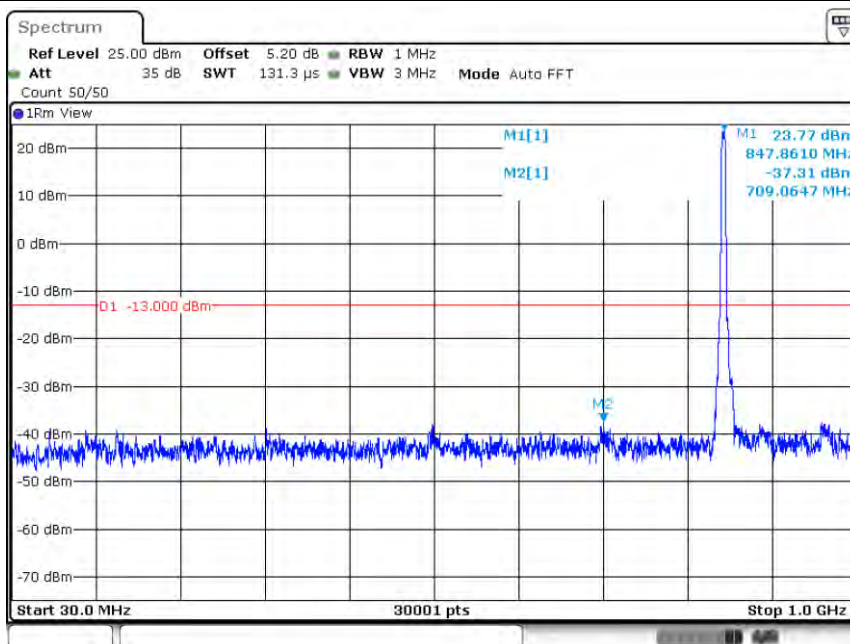
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**Band5-4182-1000~10000MHz**



Date: 16.OCT.2020 20:18:49

**Band5-4233-30~1000MHz**

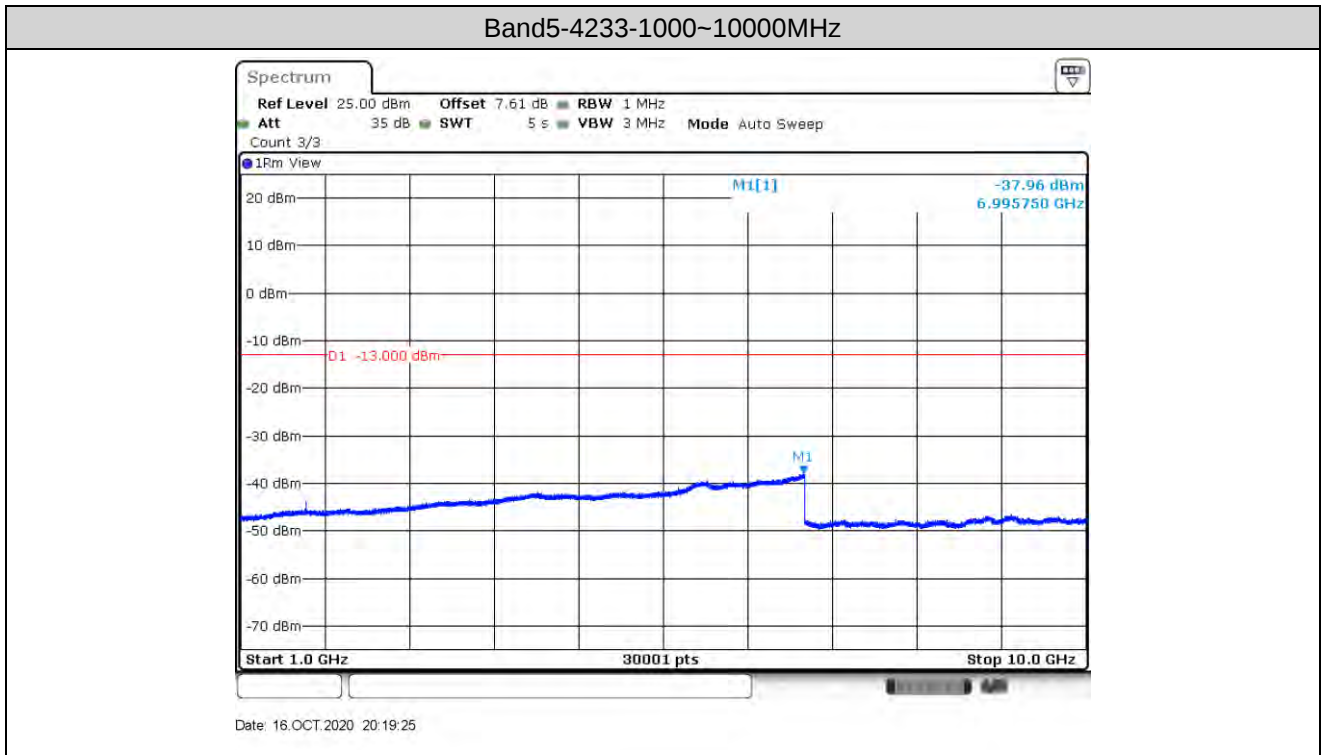


Date: 16.OCT.2020 20:19:02



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA Band II

#### 7.1.1. Test Mode = WCDMA/TM1

##### 7.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 30.7760         | -65.65      | -13.00           | 52.65       | Vertical     |
| 114.0062        | -64.66      | -13.00           | 51.66       | Vertical     |
| 380.2360        | -67.00      | -13.00           | 54.00       | Vertical     |
| 3633.0211       | -61.68      | -13.00           | 48.68       | Vertical     |
| 7445.1482       | -55.72      | -13.00           | 42.72       | Vertical     |
| 17999.0000      | -39.86      | -13.00           | 26.86       | Vertical     |
| 43.1442         | -64.61      | -13.00           | 51.61       | Horizontal   |
| 100.9590        | -75.10      | -13.00           | 62.10       | Horizontal   |
| 246.8543        | -67.65      | -13.00           | 54.65       | Horizontal   |
| 3639.5213       | -61.37      | -13.00           | 48.37       | Horizontal   |
| 8023.1674       | -56.23      | -13.00           | 43.23       | Horizontal   |
| 16386.4462      | -43.92      | -13.00           | 30.92       | Horizontal   |





### 7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 30.4365         | -66.30      | -13.00           | 53.30       | Vertical     |
| 110.2715        | -64.88      | -13.00           | 51.88       | Vertical     |
| 474.8642        | -65.84      | -13.00           | 52.84       | Vertical     |
| 5642.0881       | -57.74      | -13.00           | 44.74       | Vertical     |
| 10539.7513      | -51.66      | -13.00           | 38.66       | Vertical     |
| 17997.9999      | -40.27      | -13.00           | 27.27       | Vertical     |
| 40.1855         | -63.90      | -13.00           | 50.90       | Horizontal   |
| 100.3285        | -74.96      | -13.00           | 61.96       | Horizontal   |
| 235.3108        | -67.89      | -13.00           | 54.89       | Horizontal   |
| 3762.0254       | -58.88      | -13.00           | 45.88       | Horizontal   |
| 5642.0881       | -59.35      | -13.00           | 46.35       | Horizontal   |
| 16399.9467      | -43.61      | -13.00           | 30.61       | Horizontal   |

### 7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 30.9700         | -65.78      | -13.00           | 52.78       | Vertical     |
| 105.7123        | -65.01      | -13.00           | 52.01       | Vertical     |
| 386.9778        | -67.61      | -13.00           | 54.61       | Vertical     |
| 3768.5256       | -62.00      | -13.00           | 49.00       | Vertical     |
| 7460.1487       | -55.77      | -13.00           | 42.77       | Vertical     |
| 17998.5000      | -40.48      | -13.00           | 27.48       | Vertical     |
| 44.3567         | -63.87      | -13.00           | 50.87       | Horizontal   |
| 94.9447         | -75.22      | -13.00           | 62.22       | Horizontal   |
| 231.2851        | -68.28      | -13.00           | 55.28       | Horizontal   |
| 3640.0213       | -61.16      | -13.00           | 48.16       | Horizontal   |
| 7329.1443       | -56.55      | -13.00           | 43.55       | Horizontal   |
| 16378.4459      | -43.51      | -13.00           | 30.51       | Horizontal   |





## 7.2. Test Band = WCDMA Band V

### 7.2.1. Test Mode = WCDMA/TM1

#### 7.2.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 30.9215         | -66.21      | -13.00           | 53.21       | Vertical     |
| 112.2116        | -64.99      | -13.00           | 51.99       | Vertical     |
| 388.1419        | -67.68      | -13.00           | 54.68       | Vertical     |
| 1700.1400       | -58.96      | -13.00           | 45.96       | Vertical     |
| 2697.1394       | -51.93      | -13.00           | 38.93       | Vertical     |
| 9882.6294       | -52.34      | -13.00           | 39.34       | Vertical     |
| 44.4537         | -64.45      | -13.00           | 51.45       | Horizontal   |
| 98.2429         | -75.06      | -13.00           | 62.06       | Horizontal   |
| 231.0911        | -67.41      | -13.00           | 54.41       | Horizontal   |
| 1654.5309       | -57.92      | -13.00           | 44.92       | Horizontal   |
| 2694.3389       | -50.85      | -13.00           | 37.85       | Horizontal   |
| 9312.1104       | -52.70      | -13.00           | 39.70       | Horizontal   |





### 7.2.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 31.0186         | -65.75      | -13.00           | 52.75       | Vertical     |
| 112.2116        | -64.62      | -13.00           | 51.62       | Vertical     |
| 467.4919        | -66.87      | -13.00           | 53.87       | Vertical     |
| 1670.9342       | -60.68      | -13.00           | 47.68       | Vertical     |
| 2699.9400       | -51.97      | -13.00           | 38.97       | Vertical     |
| 9298.3433       | -52.61      | -13.00           | 39.61       | Vertical     |
| 40.5735         | -63.58      | -13.00           | 50.58       | Horizontal   |
| 102.3171        | -75.06      | -13.00           | 62.06       | Horizontal   |
| 246.3693        | -68.12      | -13.00           | 55.12       | Horizontal   |
| 1670.9342       | -57.86      | -13.00           | 44.86       | Horizontal   |
| 2690.7381       | -50.98      | -13.00           | 37.98       | Horizontal   |
| 9316.7772       | -52.84      | -13.00           | 39.84       | Horizontal   |

### 7.2.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 31.1641         | -65.63      | -13.00           | 52.63       | Vertical     |
| 107.9434        | -63.67      | -13.00           | 50.67       | Vertical     |
| 337.3114        | -67.79      | -13.00           | 54.79       | Vertical     |
| 1699.7399       | -58.99      | -13.00           | 45.99       | Vertical     |
| 2700.3401       | -51.86      | -13.00           | 38.86       | Vertical     |
| 9888.2296       | -51.98      | -13.00           | 38.98       | Vertical     |
| 42.6106         | -63.99      | -13.00           | 50.99       | Horizontal   |
| 80.5880         | -75.04      | -13.00           | 62.04       | Horizontal   |
| 244.4777        | -68.18      | -13.00           | 55.18       | Horizontal   |
| 1694.9390       | -57.56      | -13.00           | 44.56       | Horizontal   |
| 2697.9396       | -50.95      | -13.00           | 37.95       | Horizontal   |
| 7483.6495       | -55.60      | -13.00           | 42.60       | Horizontal   |





Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Voltage |         |               |                  |                |                 |             |         |
|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band2   | 9262    | VL            | NT               | -0.40          | -0.000216       | ±2.5        | PASS    |
| Band2   | 9262    | VN            | NT               | -0.87          | -0.000470       | ±2.5        | PASS    |
| Band2   | 9262    | VH            | NT               | -0.64          | -0.000345       | ±2.5        | PASS    |
| Band2   | 9400    | VL            | NT               | -0.49          | -0.000261       | ±2.5        | PASS    |
| Band2   | 9400    | VN            | NT               | -0.89          | -0.000473       | ±2.5        | PASS    |
| Band2   | 9400    | VH            | NT               | -0.79          | -0.000420       | ±2.5        | PASS    |
| Band2   | 9538    | VL            | NT               | -1.70          | -0.000891       | ±2.5        | PASS    |
| Band2   | 9538    | VN            | NT               | -1.65          | -0.000865       | ±2.5        | PASS    |
| Band2   | 9538    | VH            | NT               | -1.63          | -0.000854       | ±2.5        | PASS    |
| Band5   | 4132    | VL            | NT               | 0.37           | 0.000448        | ±2.5        | PASS    |
| Band5   | 4132    | VN            | NT               | 0.22           | 0.000266        | ±2.5        | PASS    |
| Band5   | 4132    | VH            | NT               | 0.21           | 0.000254        | ±2.5        | PASS    |
| Band5   | 4182    | VL            | NT               | -0.19          | -0.000227       | ±2.5        | PASS    |
| Band5   | 4182    | VN            | NT               | -0.16          | -0.000191       | ±2.5        | PASS    |
| Band5   | 4182    | VH            | NT               | -0.14          | -0.000167       | ±2.5        | PASS    |
| Band5   | 4233    | VL            | NT               | -0.59          | -0.000697       | ±2.5        | PASS    |
| Band5   | 4233    | VN            | NT               | -0.44          | -0.000520       | ±2.5        | PASS    |
| Band5   | 4233    | VH            | NT               | -0.58          | -0.000685       | ±2.5        | PASS    |



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## 8.2. Frequency Vs Temperature

| Temperature |         |               |                  |                |                 |             |         |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band2       | 9262    | NV            | -30              | -0.39          | -0.000211       | ±2.5        | PASS    |
| Band2       | 9262    | NV            | -20              | -0.55          | -0.000297       | ±2.5        | PASS    |
| Band2       | 9262    | NV            | -10              | -0.32          | -0.000173       | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 0                | -0.37          | -0.000200       | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 10               | -0.17          | -0.000092       | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 20               | -0.31          | -0.000167       | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 30               | -0.26          | -0.000140       | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 40               | -0.21          | -0.000113       | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 50               | -0.23          | -0.000124       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | -30              | -0.87          | -0.000463       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | -20              | -0.36          | -0.000191       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | -10              | -0.64          | -0.000340       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 0                | -0.75          | -0.000399       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 10               | -0.53          | -0.000282       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 20               | -0.62          | -0.000330       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 30               | -0.74          | -0.000394       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 40               | -0.61          | -0.000324       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 50               | -0.54          | -0.000287       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | -30              | -1.75          | -0.000917       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | -20              | -1.59          | -0.000834       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | -10              | -1.80          | -0.000944       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 0                | -1.62          | -0.000849       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 10               | -1.54          | -0.000807       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 20               | -1.79          | -0.000938       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 30               | -1.84          | -0.000965       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 40               | -1.65          | -0.000865       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 50               | -1.90          | -0.000996       | ±2.5        | PASS    |
| Band5       | 4132    | NV            | -30              | 0.11           | 0.000133        | ±2.5        | PASS    |
| Band5       | 4132    | NV            | -20              | 0.19           | 0.000230        | ±2.5        | PASS    |
| Band5       | 4132    | NV            | -10              | -0.01          | -0.000012       | ±2.5        | PASS    |
| Band5       | 4132    | NV            | 0                | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5       | 4132    | NV            | 10               | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5       | 4132    | NV            | 20               | 0.16           | 0.000194        | ±2.5        | PASS    |



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|       |      |    |     |       |           |      |      |
|-------|------|----|-----|-------|-----------|------|------|
| Band5 | 4132 | NV | 30  | 0.14  | 0.000169  | ±2.5 | PASS |
| Band5 | 4132 | NV | 40  | 0.11  | 0.000133  | ±2.5 | PASS |
| Band5 | 4132 | NV | 50  | 0.10  | 0.000121  | ±2.5 | PASS |
| Band5 | 4182 | NV | -30 | -0.16 | -0.000191 | ±2.5 | PASS |
| Band5 | 4182 | NV | -20 | 0.02  | 0.000024  | ±2.5 | PASS |
| Band5 | 4182 | NV | -10 | -0.06 | -0.000072 | ±2.5 | PASS |
| Band5 | 4182 | NV | 0   | -0.02 | -0.000024 | ±2.5 | PASS |
| Band5 | 4182 | NV | 10  | 0.06  | 0.000072  | ±2.5 | PASS |
| Band5 | 4182 | NV | 20  | 0.04  | 0.000048  | ±2.5 | PASS |
| Band5 | 4182 | NV | 30  | 0.01  | 0.000012  | ±2.5 | PASS |
| Band5 | 4182 | NV | 40  | 0.00  | 0.000000  | ±2.5 | PASS |
| Band5 | 4182 | NV | 50  | -0.09 | -0.000108 | ±2.5 | PASS |
| Band5 | 4233 | NV | -30 | -0.52 | -0.000614 | ±2.5 | PASS |
| Band5 | 4233 | NV | -20 | -0.56 | -0.000661 | ±2.5 | PASS |
| Band5 | 4233 | NV | -10 | -0.65 | -0.000768 | ±2.5 | PASS |
| Band5 | 4233 | NV | 0   | -0.44 | -0.000520 | ±2.5 | PASS |
| Band5 | 4233 | NV | 10  | -0.67 | -0.000791 | ±2.5 | PASS |
| Band5 | 4233 | NV | 20  | -0.62 | -0.000732 | ±2.5 | PASS |
| Band5 | 4233 | NV | 30  | -0.51 | -0.000602 | ±2.5 | PASS |
| Band5 | 4233 | NV | 40  | -0.56 | -0.000661 | ±2.5 | PASS |
| Band5 | 4233 | NV | 50  | -0.57 | -0.000673 | ±2.5 | PASS |

The End



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