



# Appendix B

## WCDMA BAND II & IV & V



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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

| BAND    | Test Mode | Channel | Conducted Power(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|---------|-----------|---------|----------------------|-----------|------------|---------|
| Band II | UMTS/TM1  | 9262    | 23.01                | 23.57     | 33.00      | PASS    |
|         |           | 9400    | 23.14                | 23.70     | 33.00      | PASS    |
|         |           | 9538    | 23.08                | 23.64     | 33.00      | PASS    |
|         | UMTS/TM2  | 9262    | 22.06                | 21.50     | 33.00      | PASS    |
|         |           | 9400    | 22.15                | 21.59     | 33.00      | PASS    |
|         |           | 9538    | 21.96                | 21.40     | 33.00      | PASS    |
| Band IV | UMTS/TM1  | 1312    | 21.85                | 22.22     | 30.00      | PASS    |
|         |           | 1413    | 21.82                | 22.19     | 30.00      | PASS    |
|         |           | 1513    | 21.84                | 22.21     | 30.00      | PASS    |
|         | UMTS/TM2  | 1312    | 20.15                | 19.78     | 30.00      | PASS    |
|         |           | 1413    | 20.25                | 19.88     | 30.00      | PASS    |
|         |           | 1513    | 20.32                | 19.95     | 30.00      | PASS    |

| BAND   | Test Mode | Channel | Conducted Power(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|---------|----------------------|----------|------------|---------|
| Band V | UMTS/TM1  | 4132    | 22.59                | 18.12    | 38.45      | PASS    |
|        |           | 4182    | 22.89                | 18.42    | 38.45      | PASS    |
|        |           | 4233    | 22.46                | 17.99    | 38.45      | PASS    |
|        | UMTS/TM2  | 4132    | 21.36                | 16.89    | 38.45      | PASS    |
|        |           | 4182    | 21.31                | 16.84    | 38.45      | PASS    |
|        |           | 4233    | 21.41                | 16.94    | 38.45      | PASS    |

Remark:

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

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

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

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

### 2.1. Test Result

| BAND    | Test Mode | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|---------|-----------|---------|---------------------------|-----------|---------|
| Band II | UMTS/TM1  | 9262    | 2.78                      | 13        | PASS    |
|         |           | 9400    | 2.78                      | 13        | PASS    |
|         |           | 9538    | 2.78                      | 13        | PASS    |
|         | UMTS/TM2  | 9262    | 3.33                      | 13        | PASS    |
|         |           | 9400    | 4.67                      | 13        | PASS    |
|         |           | 9538    | 4.41                      | 13        | PASS    |
| Band IV | UMTS/TM1  | 1312    | 3.13                      | 13        | PASS    |
|         |           | 1413    | 3.13                      | 13        | PASS    |
|         |           | 1513    | 3.13                      | 13        | PASS    |
|         | UMTS/TM2  | 1312    | 3.13                      | 13        | PASS    |
|         |           | 1413    | 3.91                      | 13        | PASS    |
|         |           | 1513    | 4.49                      | 13        | PASS    |
| Band V  | UMTS/TM1  | 4132    | 2.70                      | 13        | PASS    |
|         |           | 4182    | 3.01                      | 13        | PASS    |
|         |           | 4233    | 2.29                      | 13        | PASS    |
|         | UMTS/TM2  | 4132    | 3.65                      | 13        | PASS    |
|         |           | 4182    | 3.16                      | 13        | PASS    |
|         |           | 4233    | 2.58                      | 13        | PASS    |

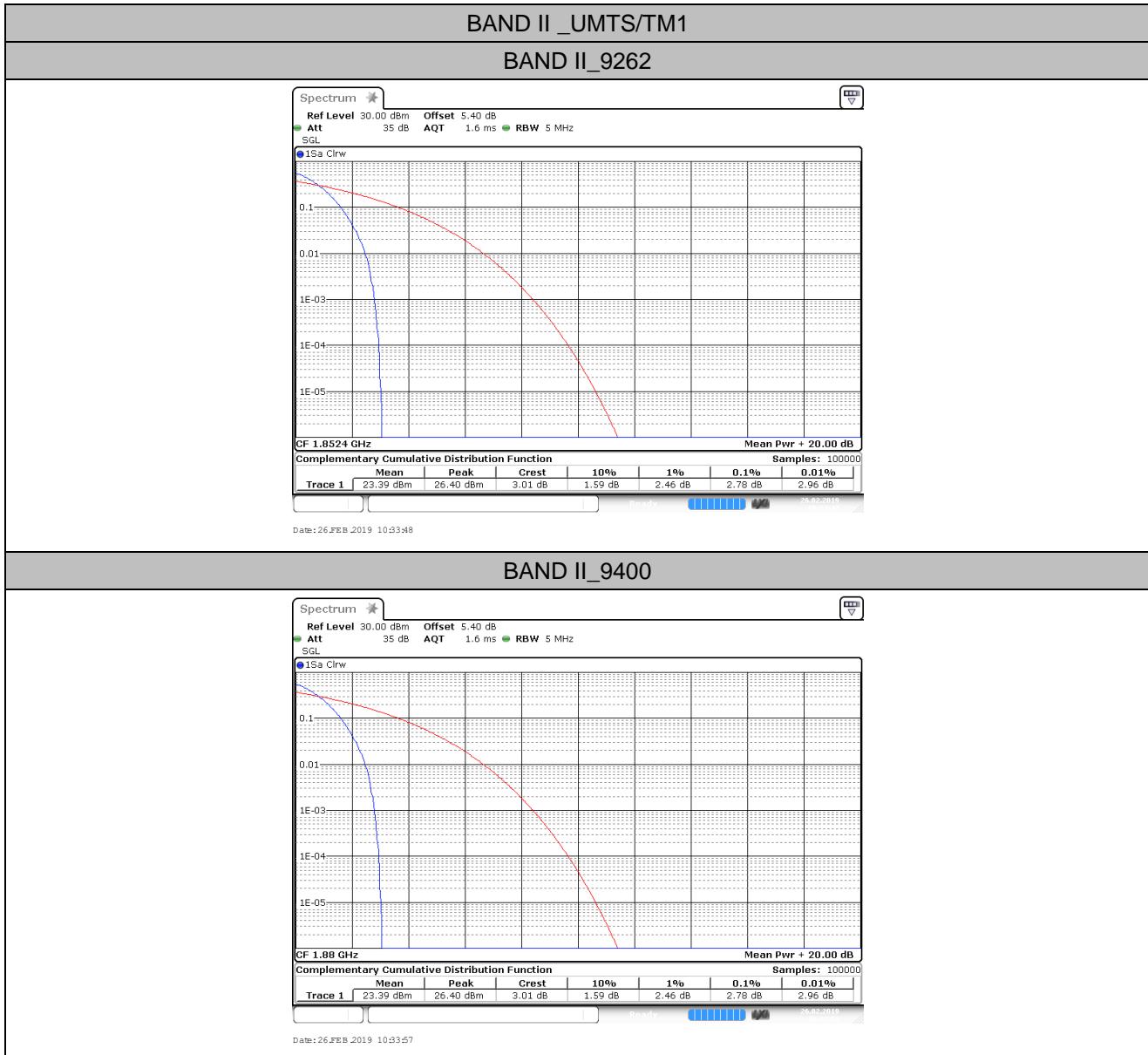
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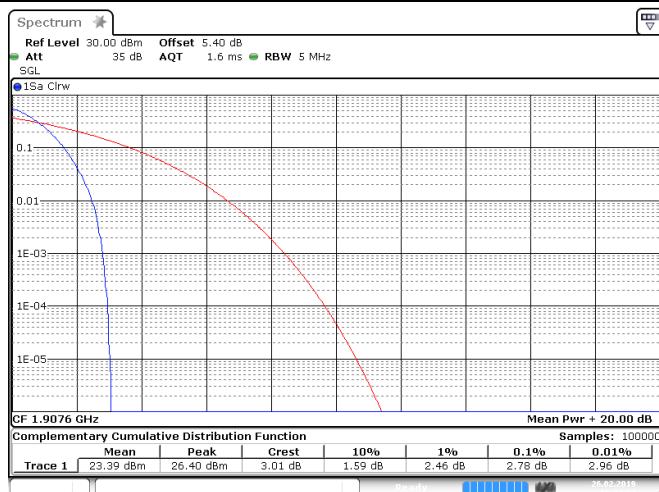
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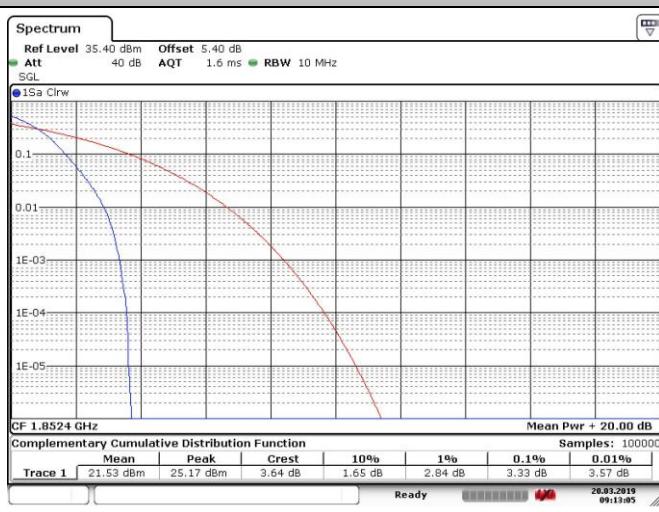


BAND II\_9538



BAND II \_UMTS/TM2

BAND II\_9262



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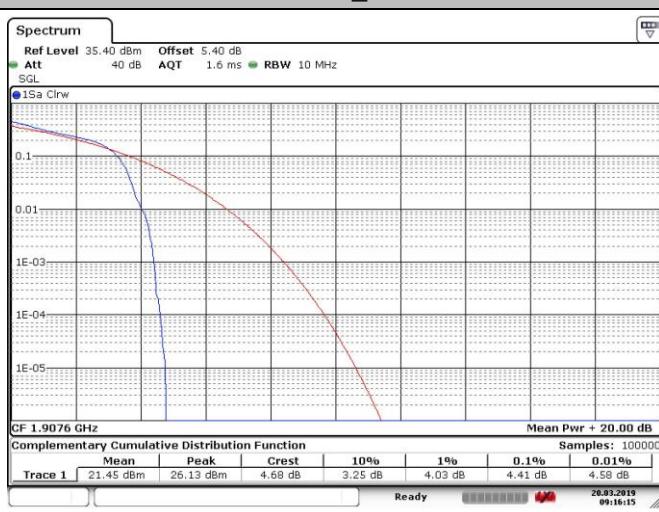
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BAND II\_9400



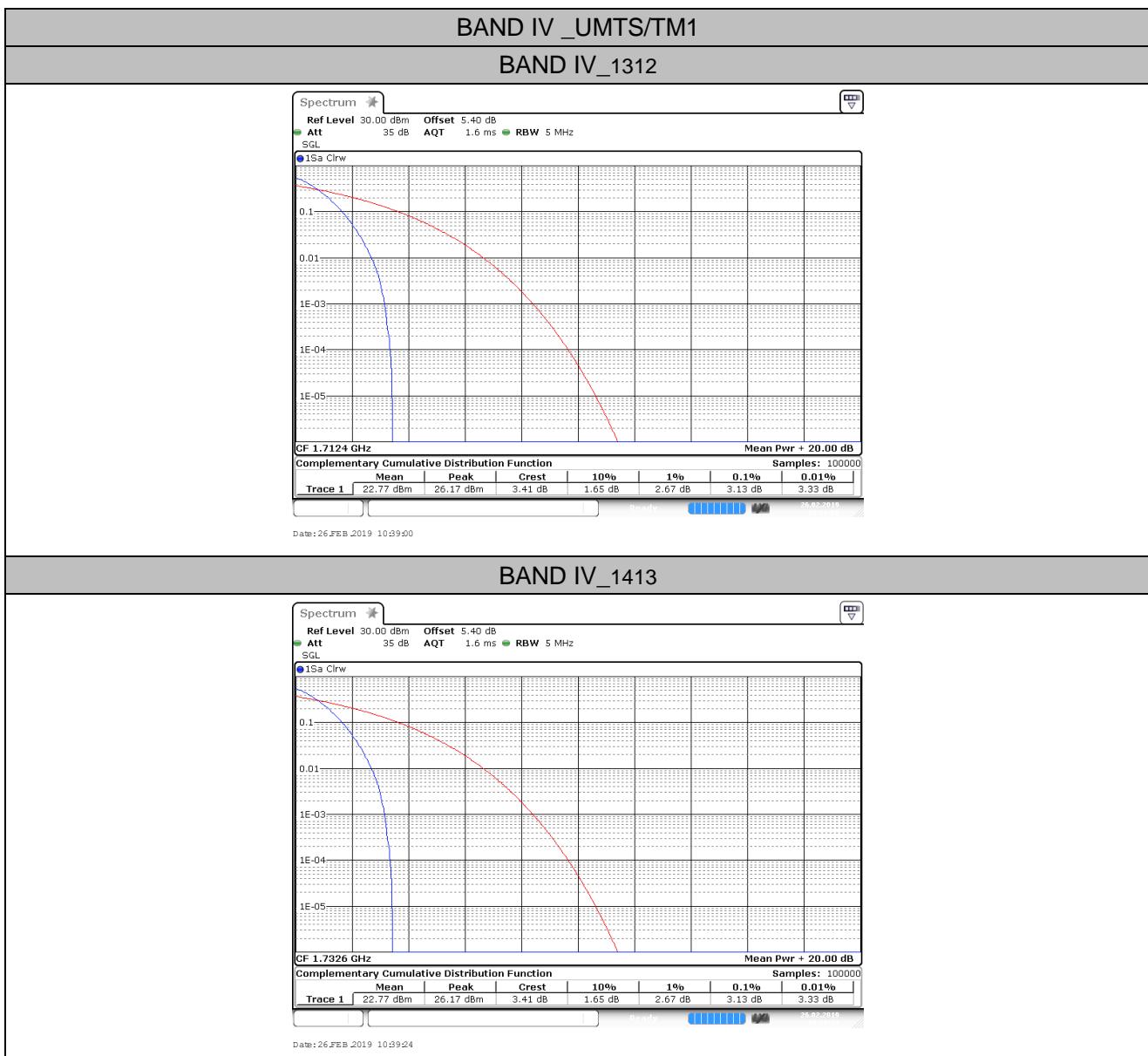
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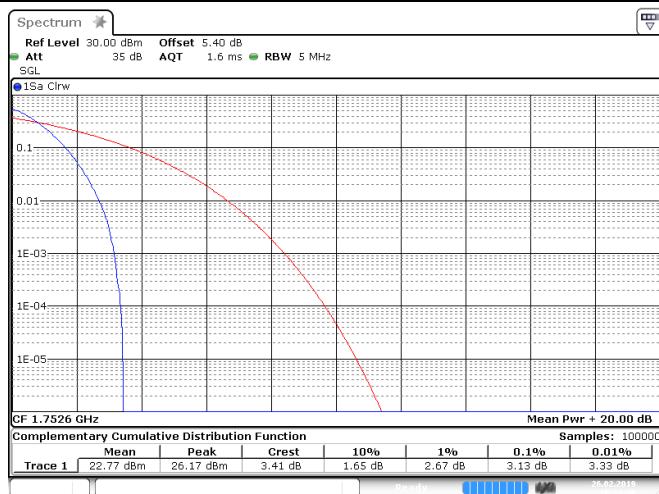
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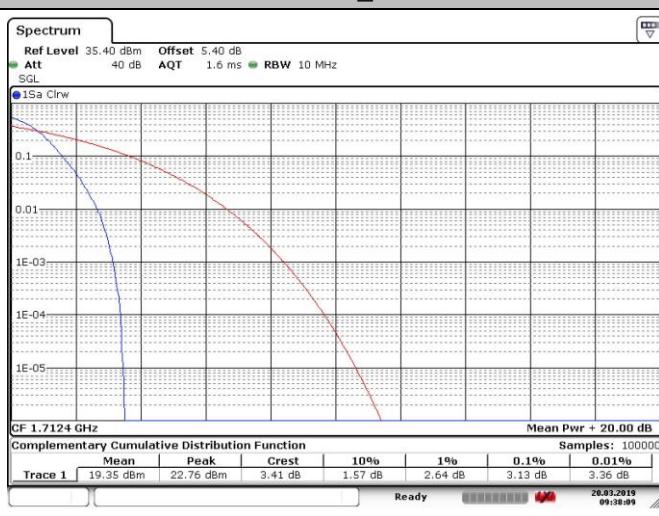


BAND IV\_1513



BAND IV \_UMTS/TM2

BAND IV\_1312



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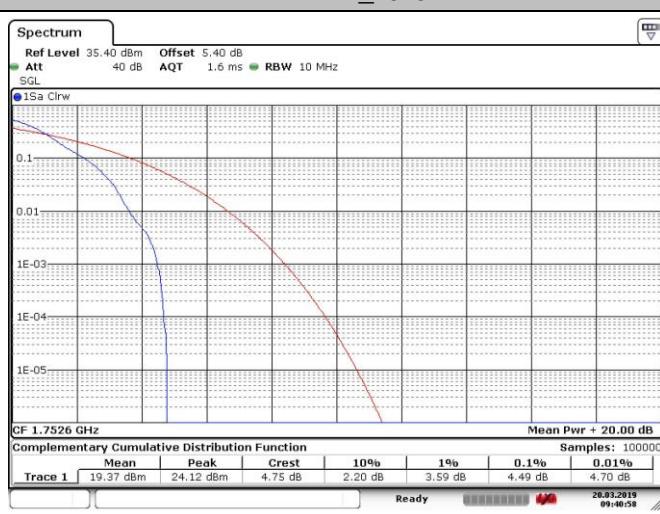
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BAND IV\_1513



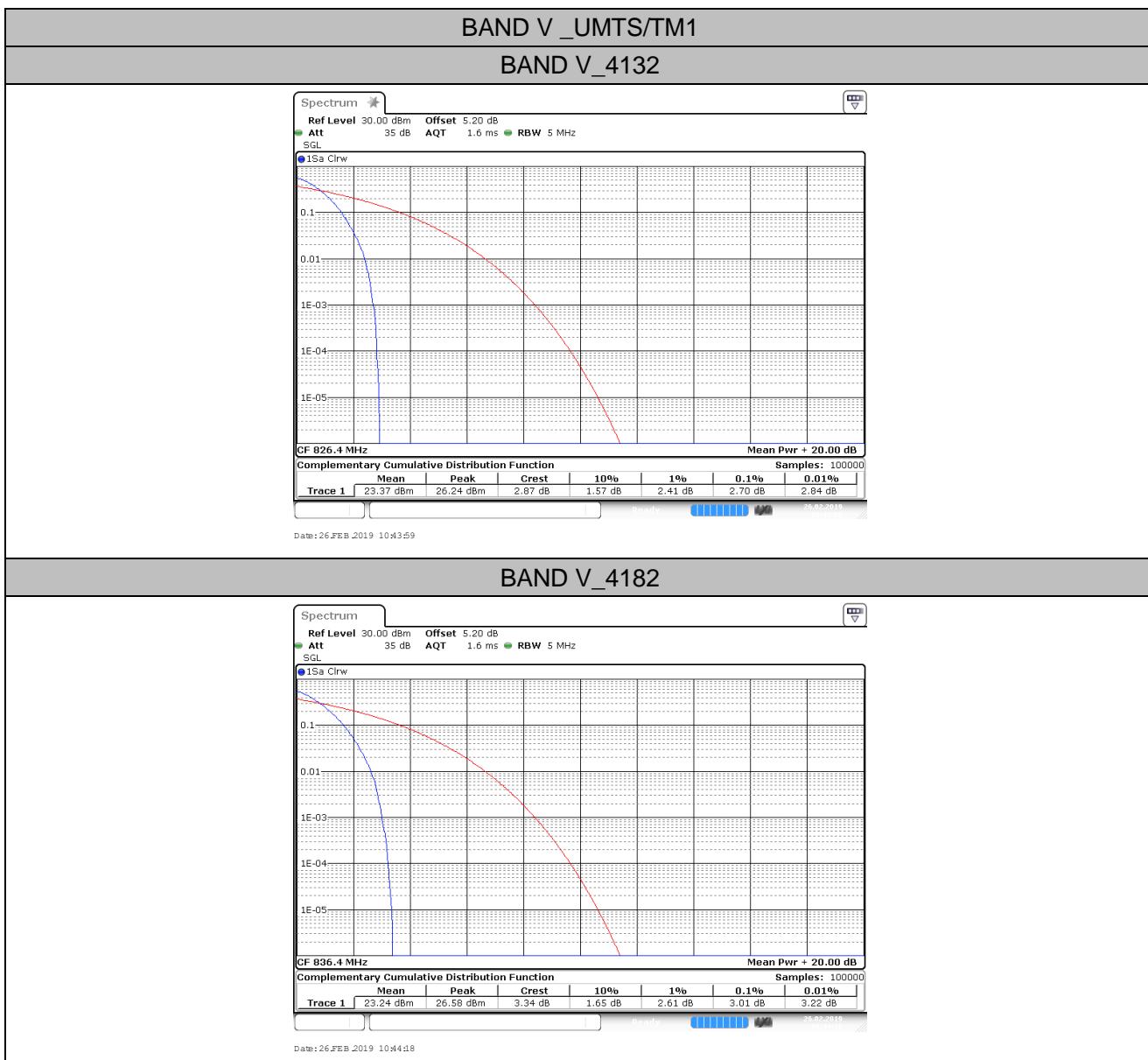
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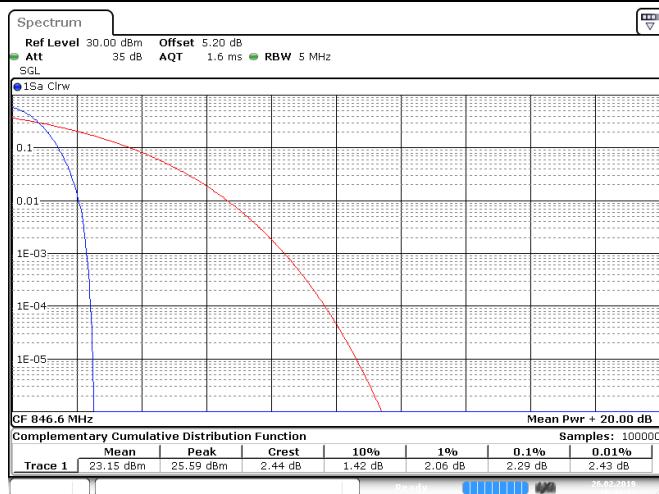
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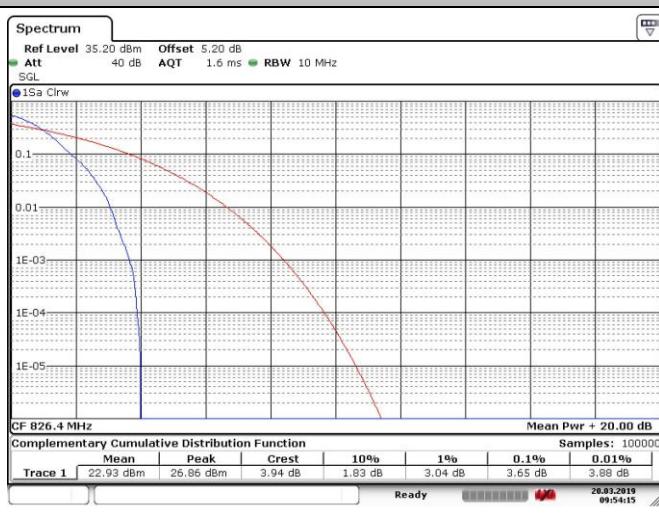


BAND V\_4233



BAND V \_UMTS/TM2

BAND V\_4132



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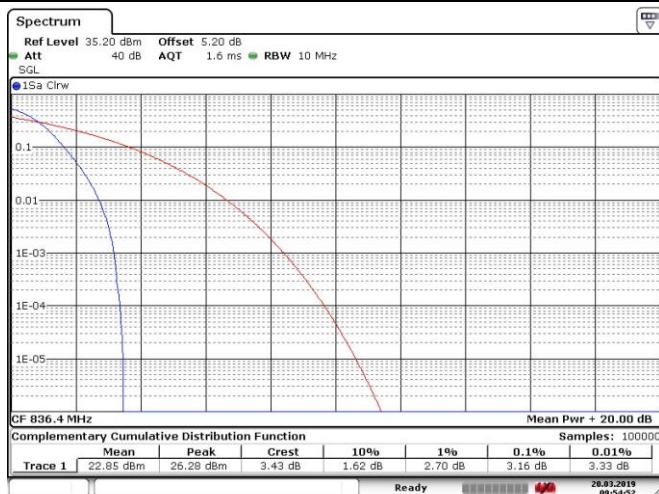


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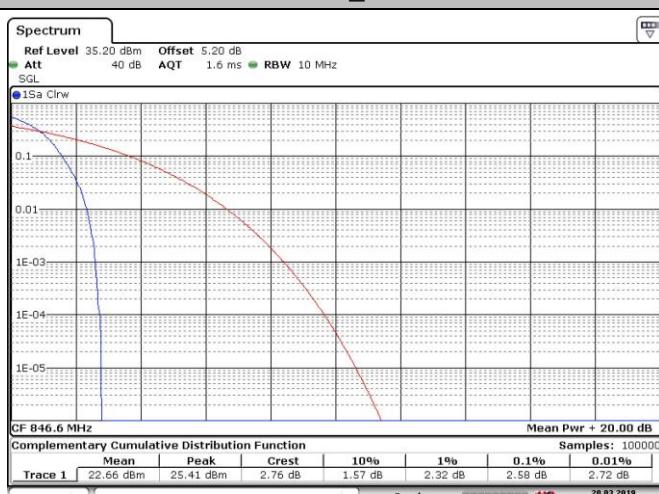
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BAND V\_4182



BAND V\_4233



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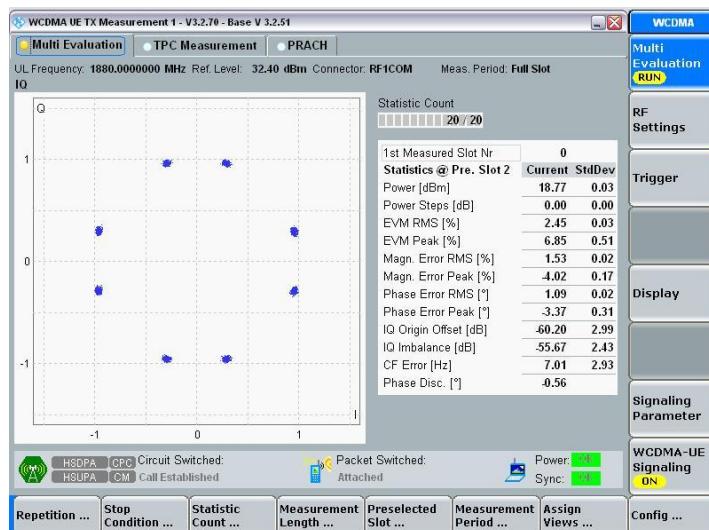


### 3. Modulation Characteristics

#### 3.1. Test BAND = WCDMA BAND II

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

###### 3.1.1.1. Test Channel = MCH



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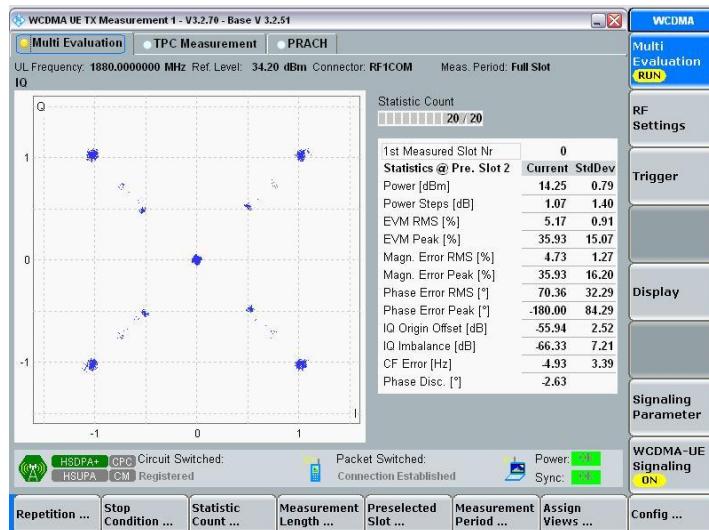
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## 3.2. Test BAND = WCDMA BAND II

### 3.2.1. Test Mode = UMTS/TM2

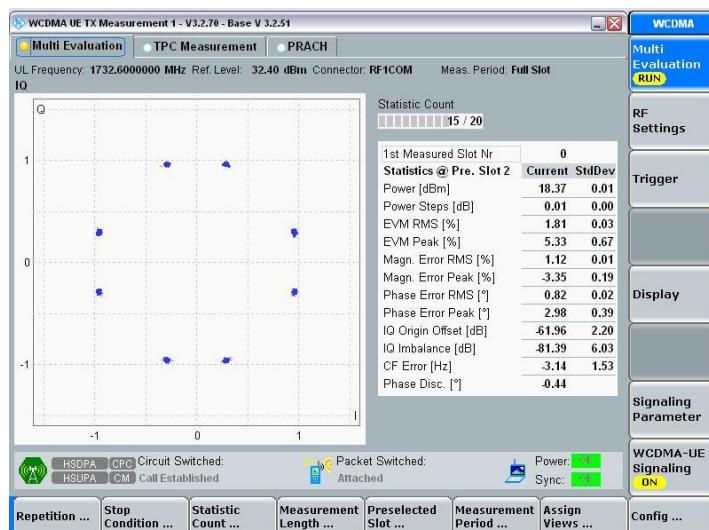
#### 3.2.1.1. Test Channel = MCH



## 3.3. Test BAND = WCDMA BAND IV

### 3.3.1. Test Mode = UMTS/TM1

#### 3.3.1.1. Test Channel = MCH



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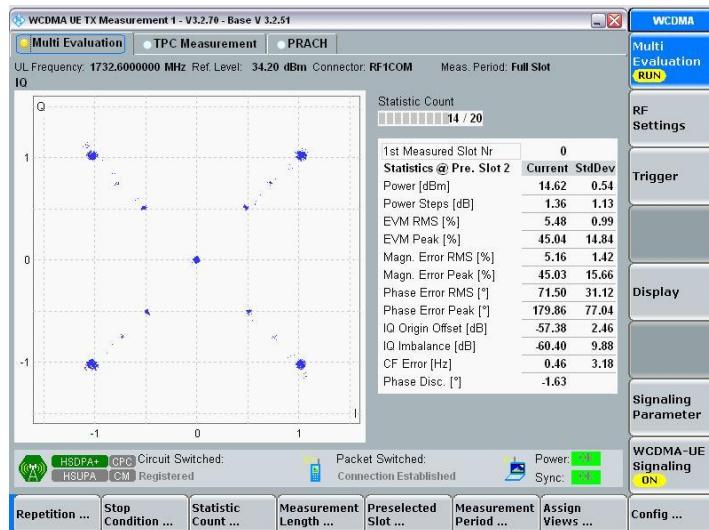
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### 3.4. Test BAND = WCDMA BAND IV

#### 3.4.1. Test Mode = UMTS/TM2

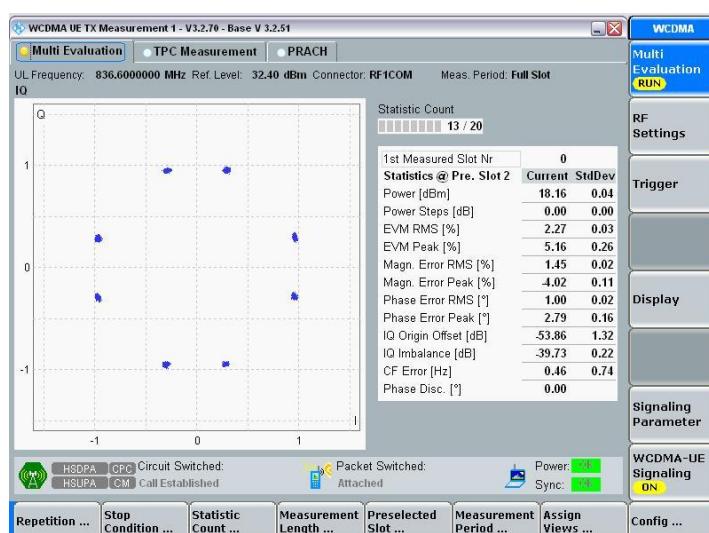
##### 3.4.1.1. Test Channel = MCH



### 3.5. Test BAND = WCDMA BAND V

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

##### 3.5.1.1. Test Channel = MCH



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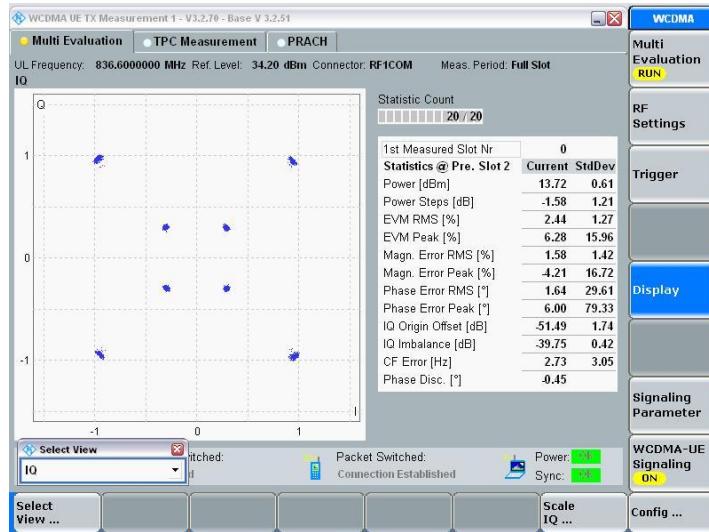


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## 3.6. Test BAND = WCDMA BAND V

### 3.6.1. Test Mode = UMTS/TM2

#### 3.6.1.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

| BAND    | Test mode | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|---------|-----------|---------|--------------------------|----------------------|------------|---------|
| Band II | UMTS/TM1  | 9262    | 4130.00                  | 4700.00              | ---        | PASS    |
|         |           | 9400    | 4140.00                  | 4690.00              | ---        | PASS    |
|         |           | 9538    | 4150.00                  | 4690.00              | ---        | PASS    |
|         | UMTS/TM2  | 9262    | 4125.87                  | 4705.00              | ---        | PASS    |
|         |           | 9400    | 4145.85                  | 4685.00              | ---        | PASS    |
|         |           | 9538    | 4145.85                  | 4705.00              | ---        | PASS    |
| Band IV | UMTS/TM1  | 1312    | 4130.00                  | 4700.00              | ---        | PASS    |
|         |           | 1413    | 4140.00                  | 4690.00              | ---        | PASS    |
|         |           | 1513    | 4130.00                  | 4680.00              | ---        | PASS    |
|         | UMTS/TM2  | 1312    | 4125.87                  | 4705.00              | ---        | PASS    |
|         |           | 1413    | 4125.87                  | 4705.00              | ---        | PASS    |
|         |           | 1513    | 4155.84                  | 4705.00              | ---        | PASS    |
| Band V  | UMTS/TM1  | 4132    | 4210.00                  | 4700.00              | ---        | PASS    |
|         |           | 4182    | 4220.00                  | 4690.00              | ---        | PASS    |
|         |           | 4233    | 4240.00                  | 4710.00              | ---        | PASS    |
|         | UMTS/TM2  | 4132    | 4225.77                  | 4735.00              | ---        | PASS    |
|         |           | 4182    | 4215.78                  | 4735.00              | ---        | PASS    |
|         |           | 4233    | 4205.79                  | 4715.00              | ---        | PASS    |

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## 4.2. Test Plots



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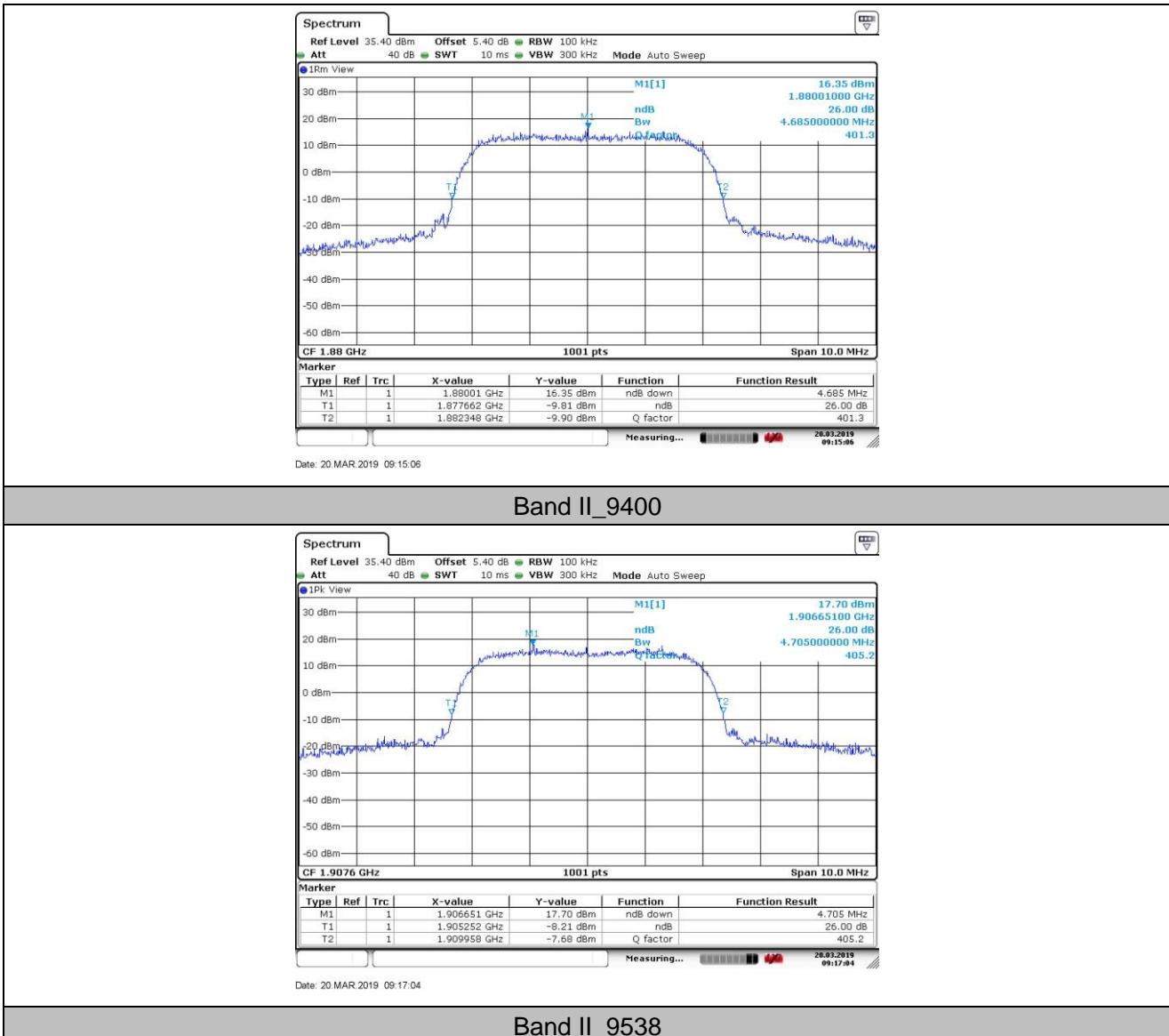


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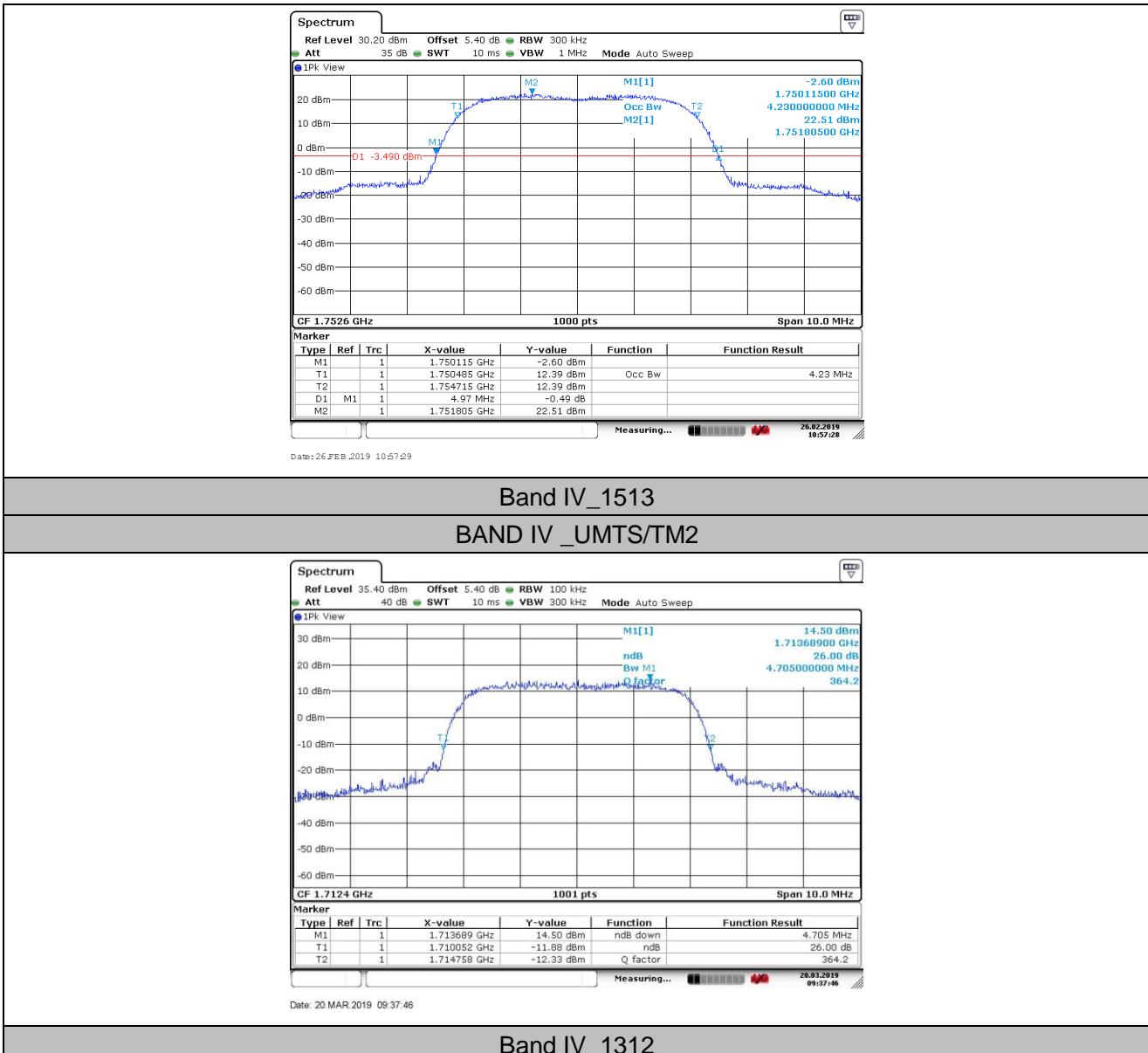
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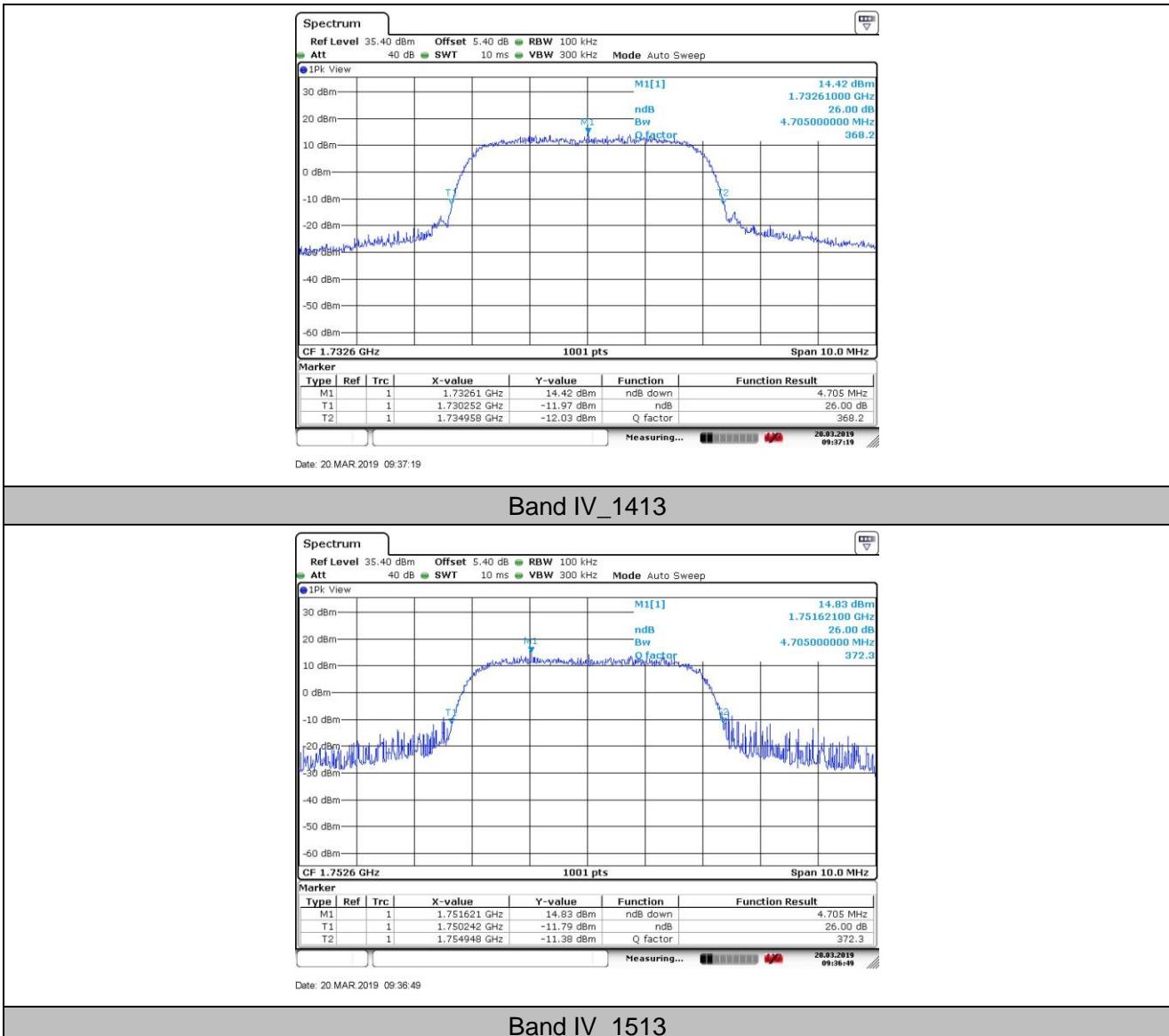


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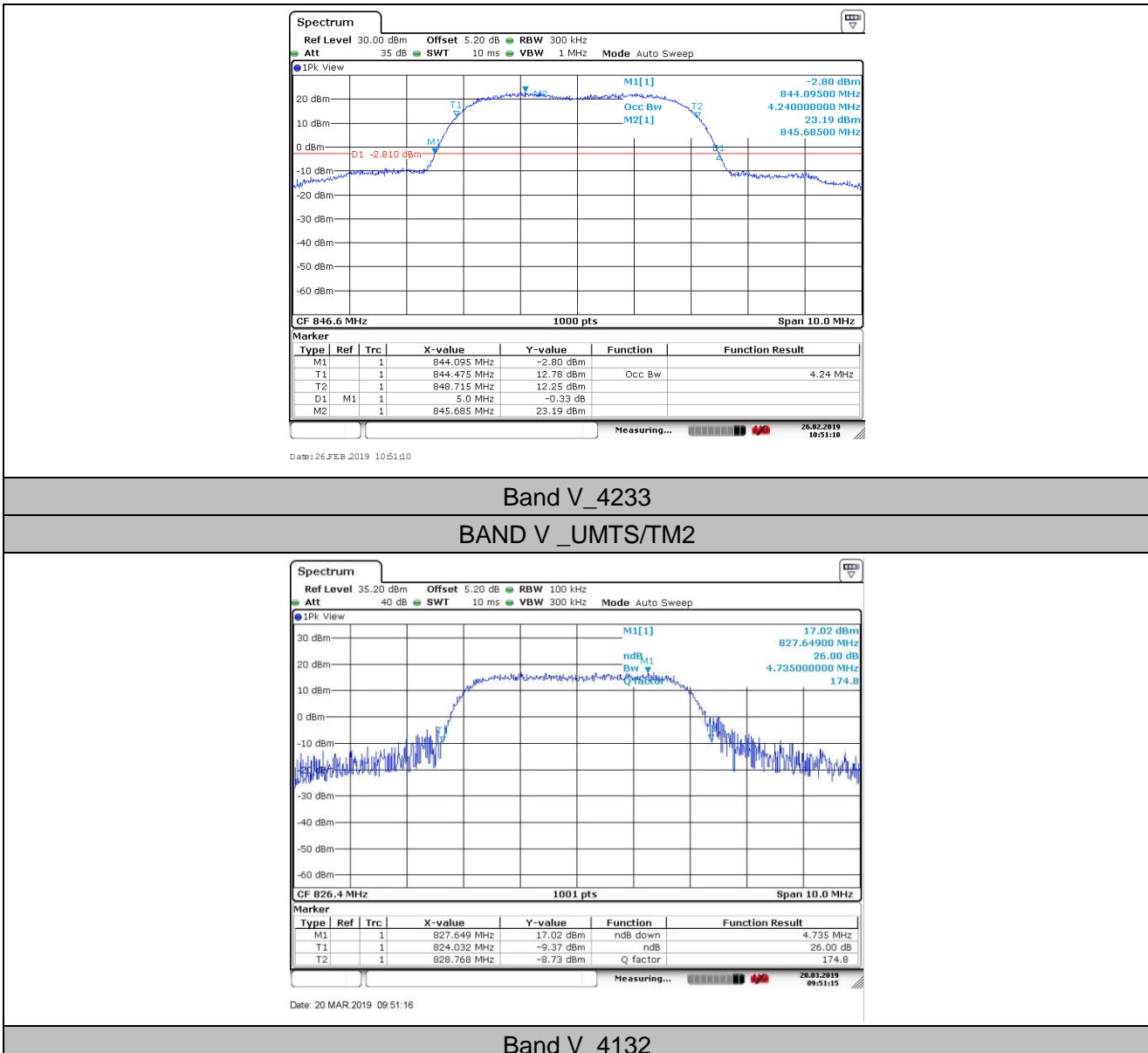
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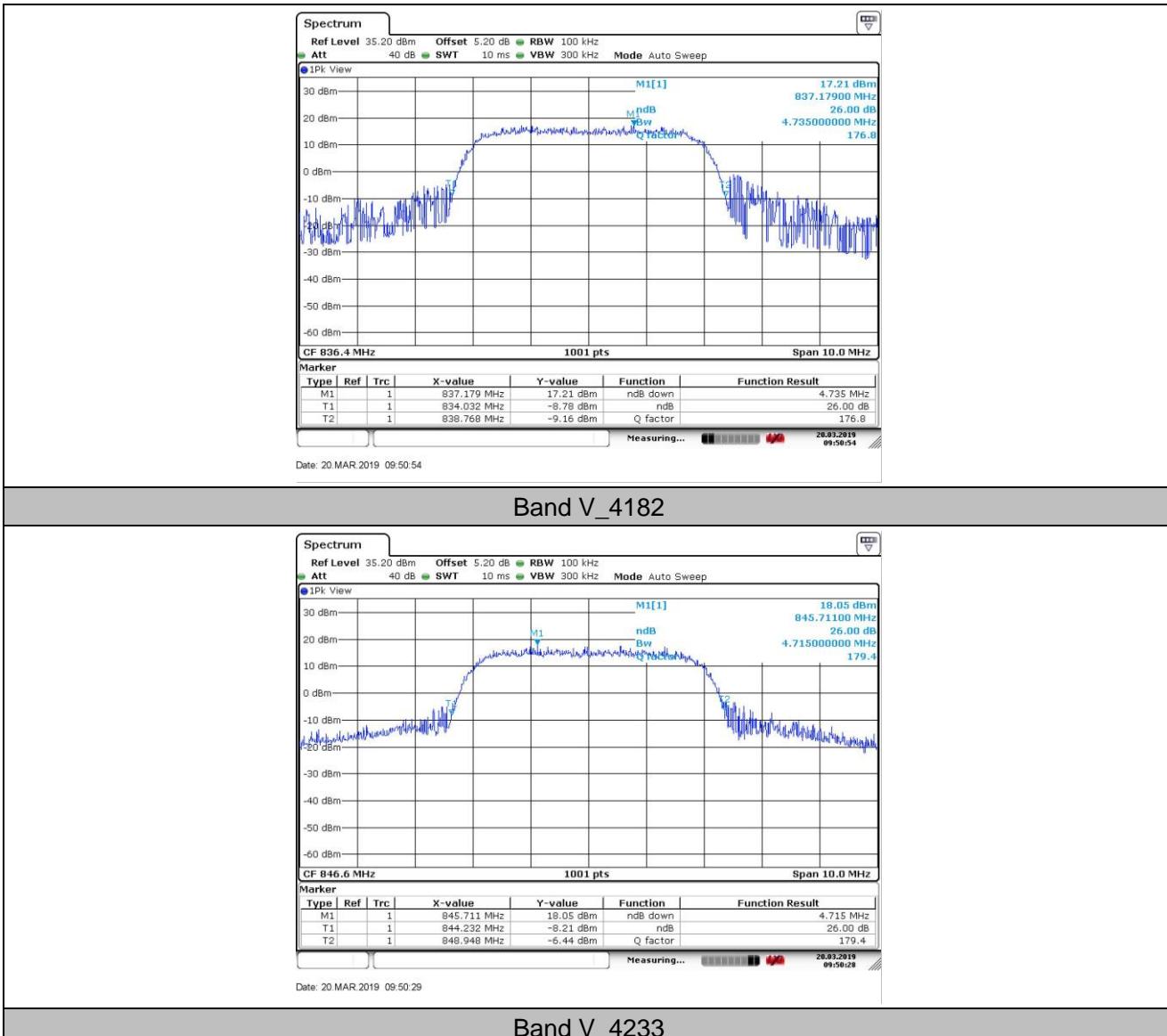




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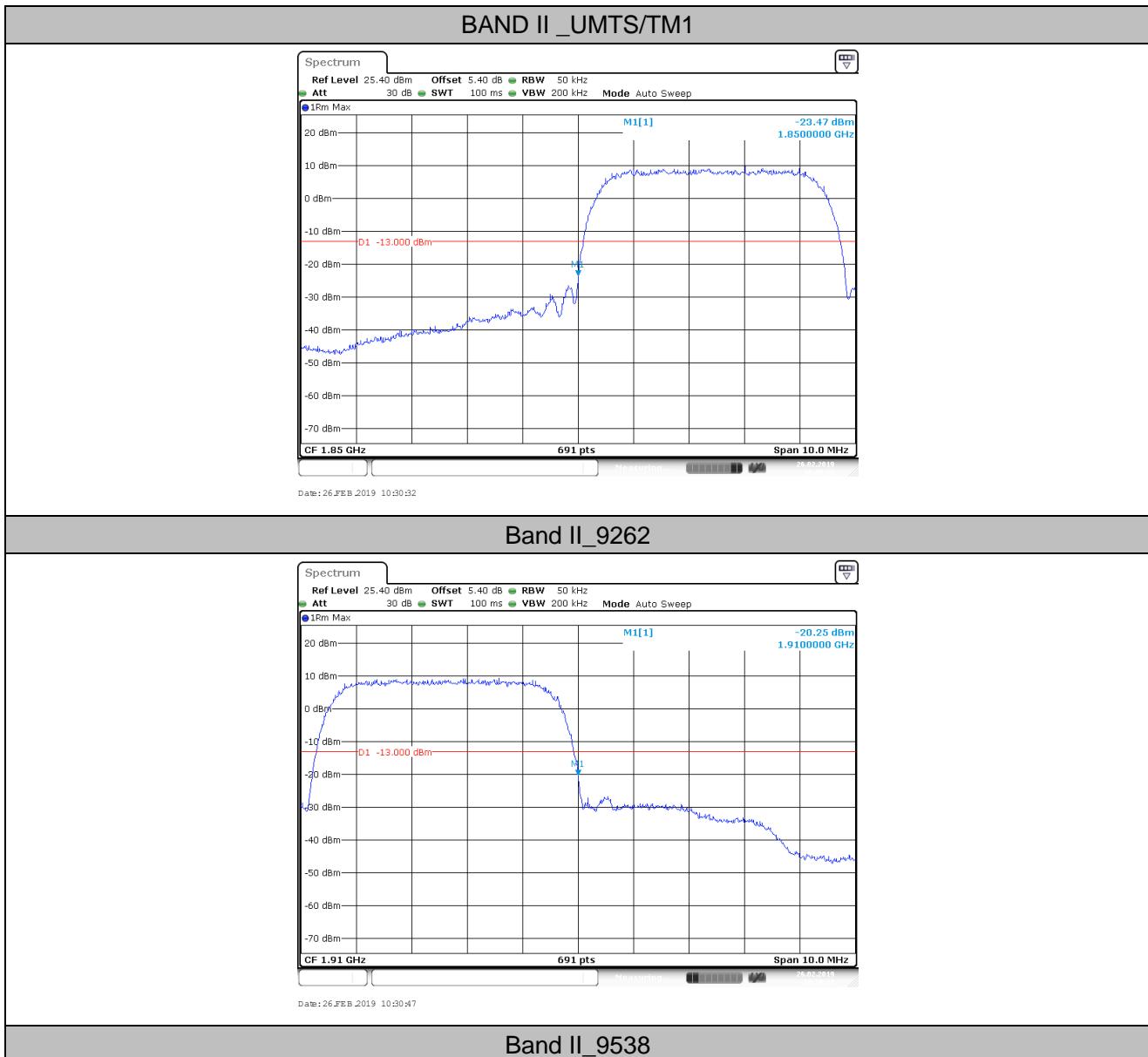
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## 5. Band Edge Compliance

### 5.1. Test Plots

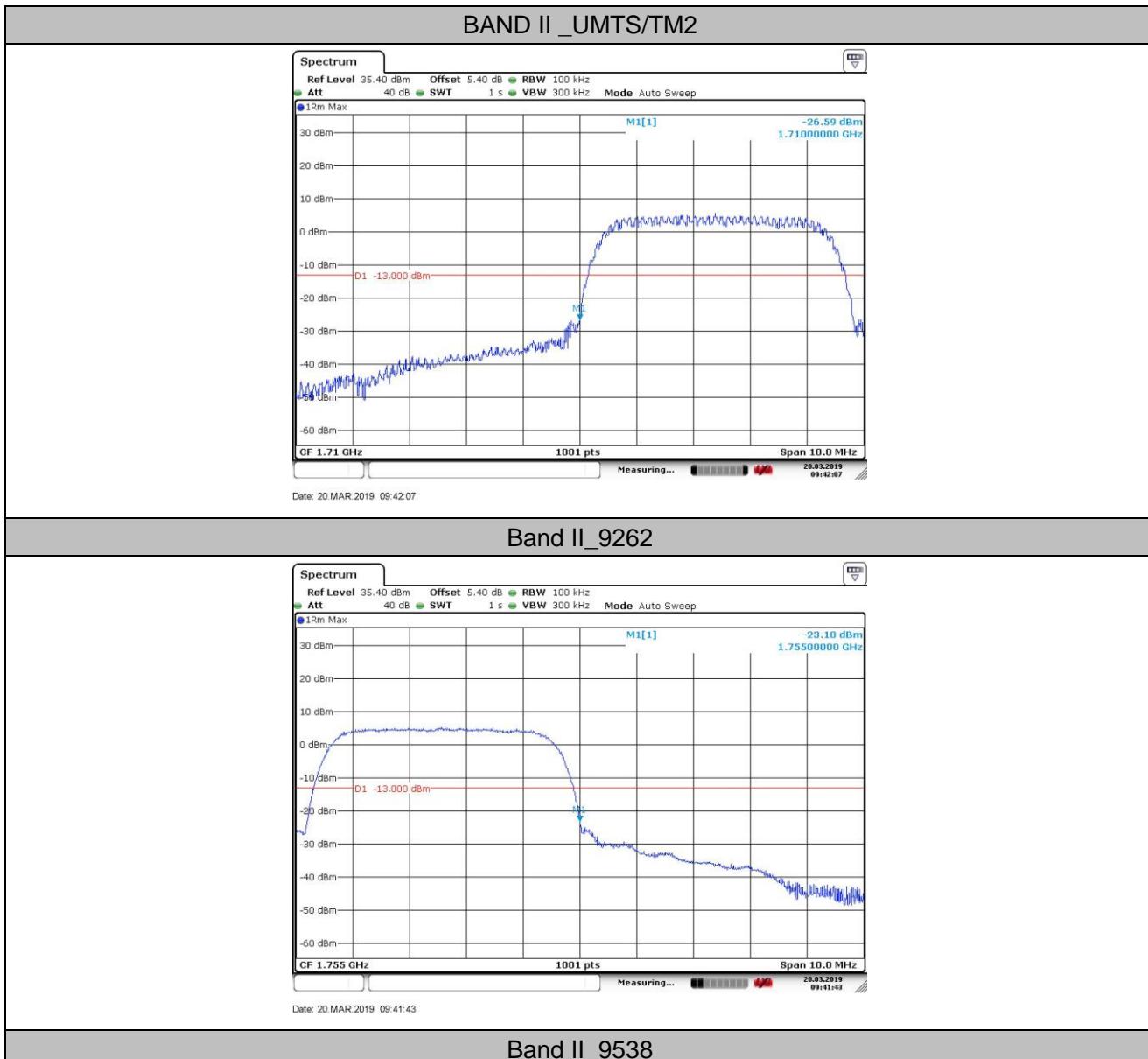


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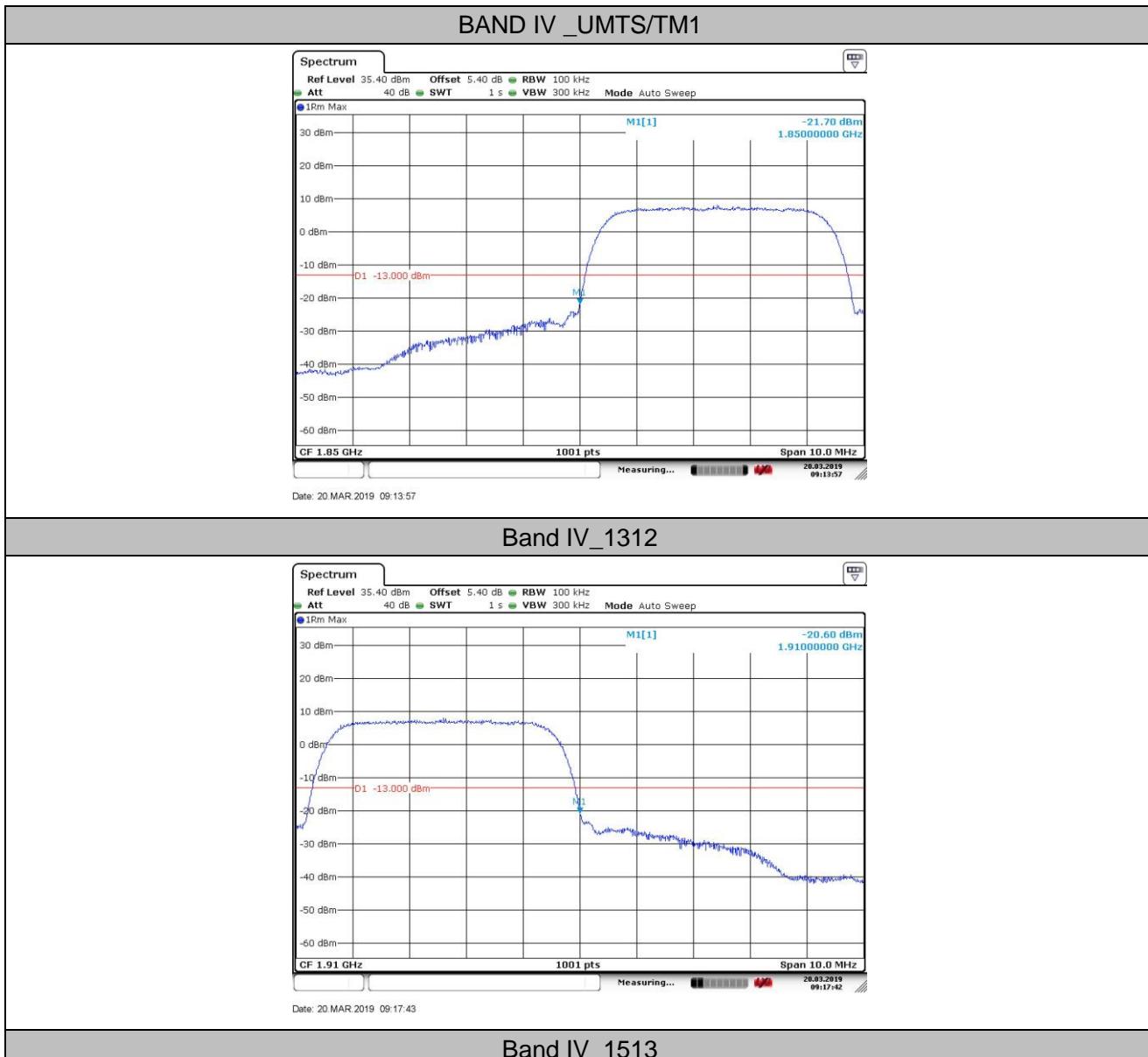


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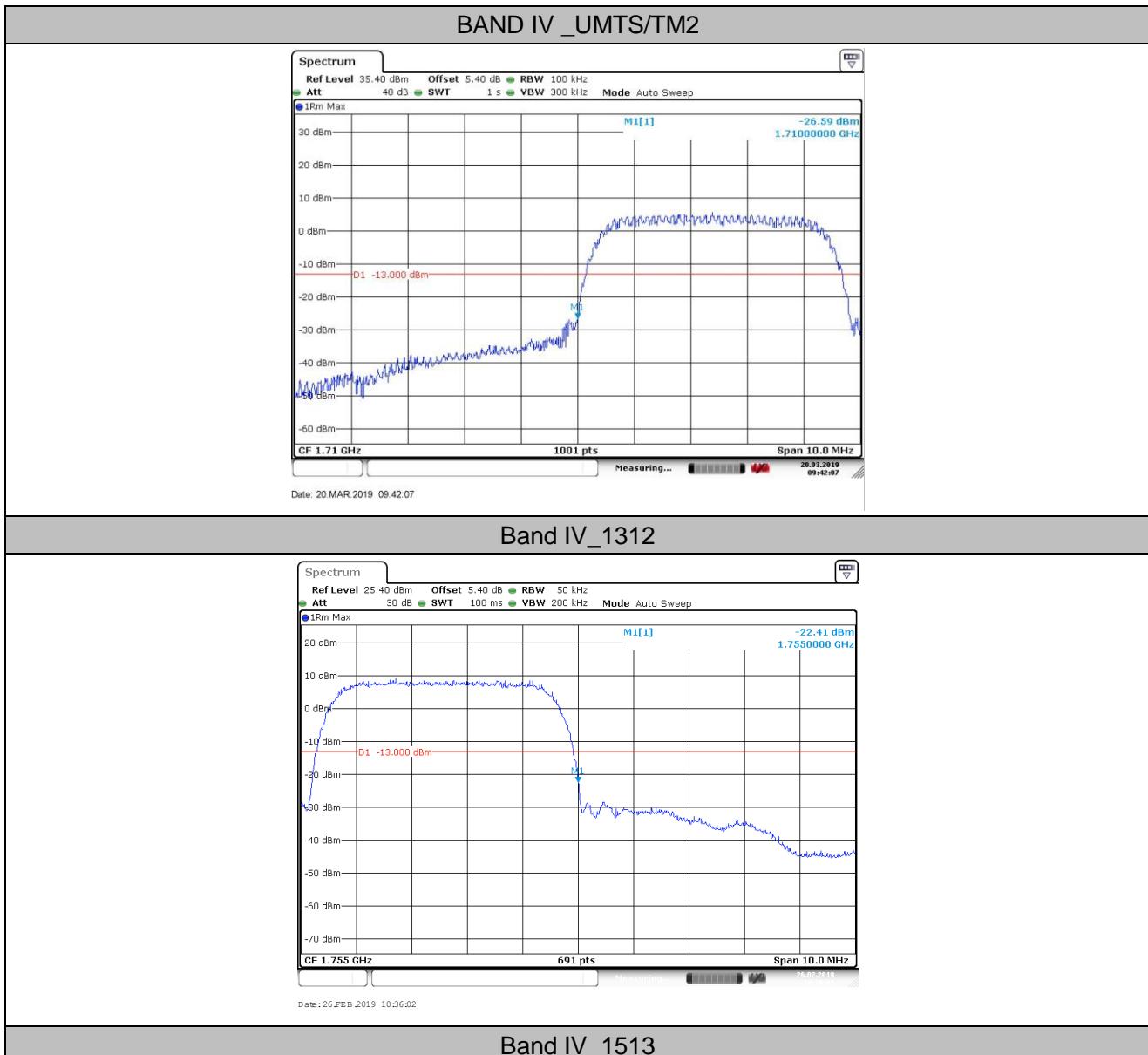


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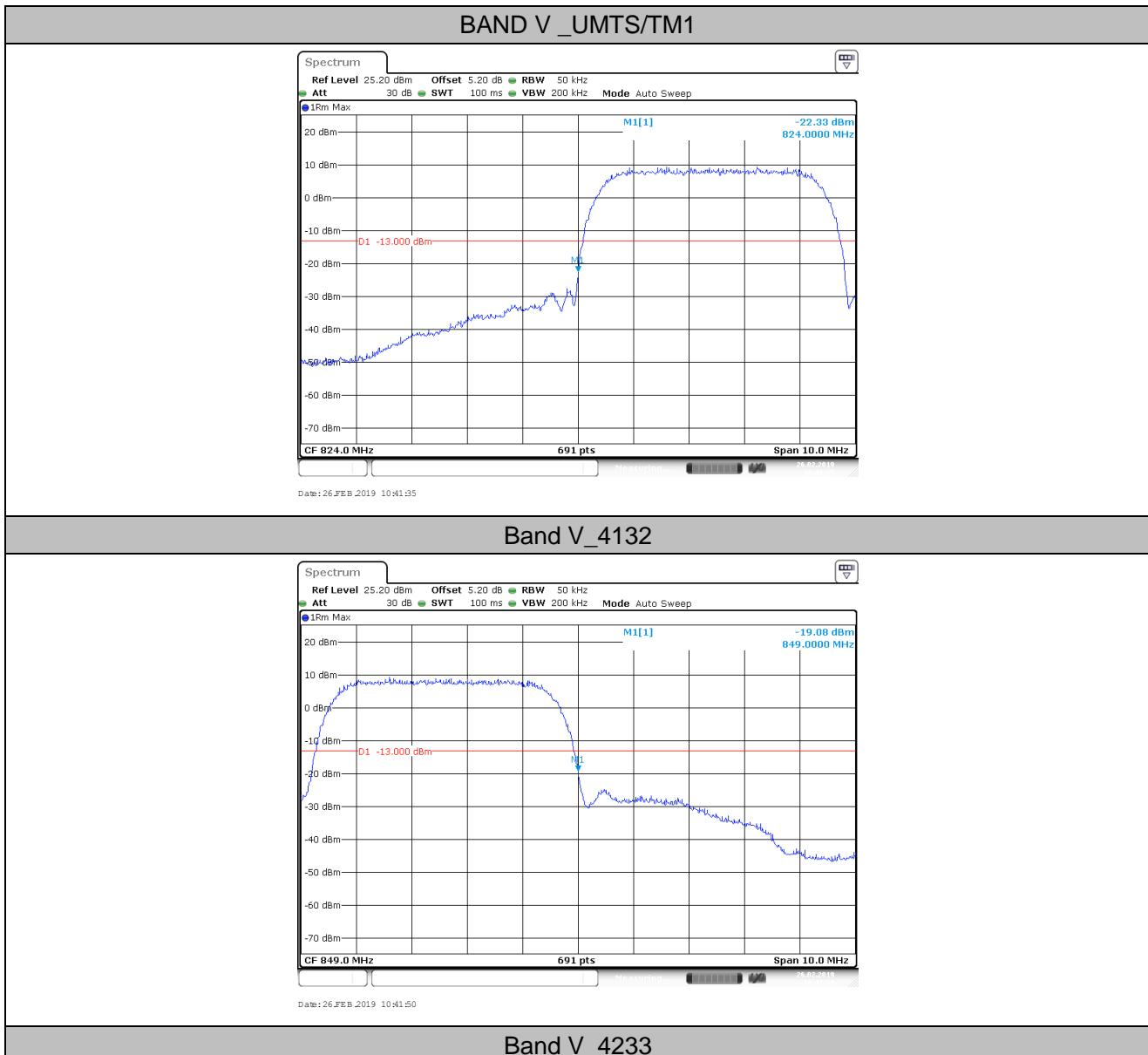


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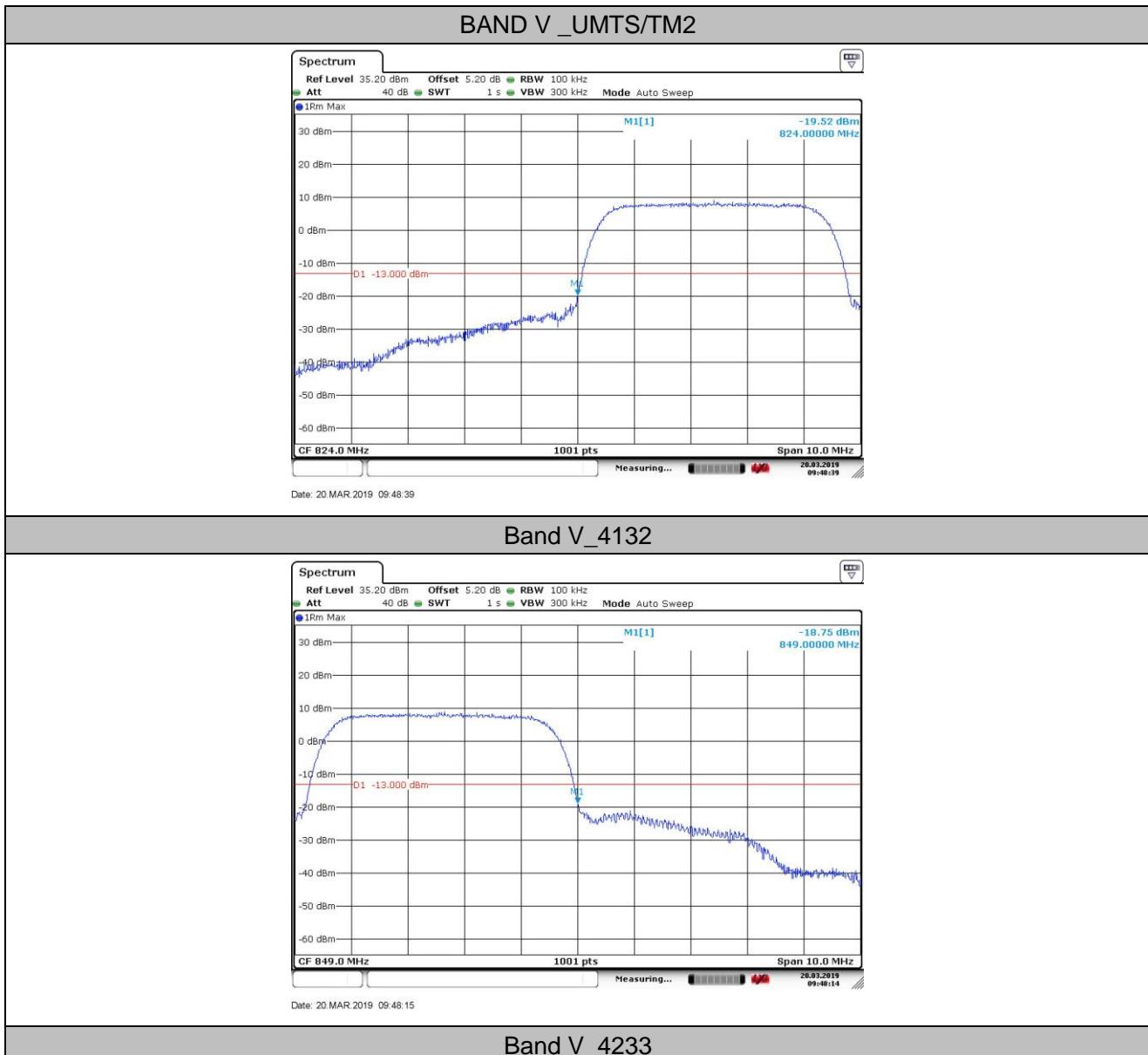


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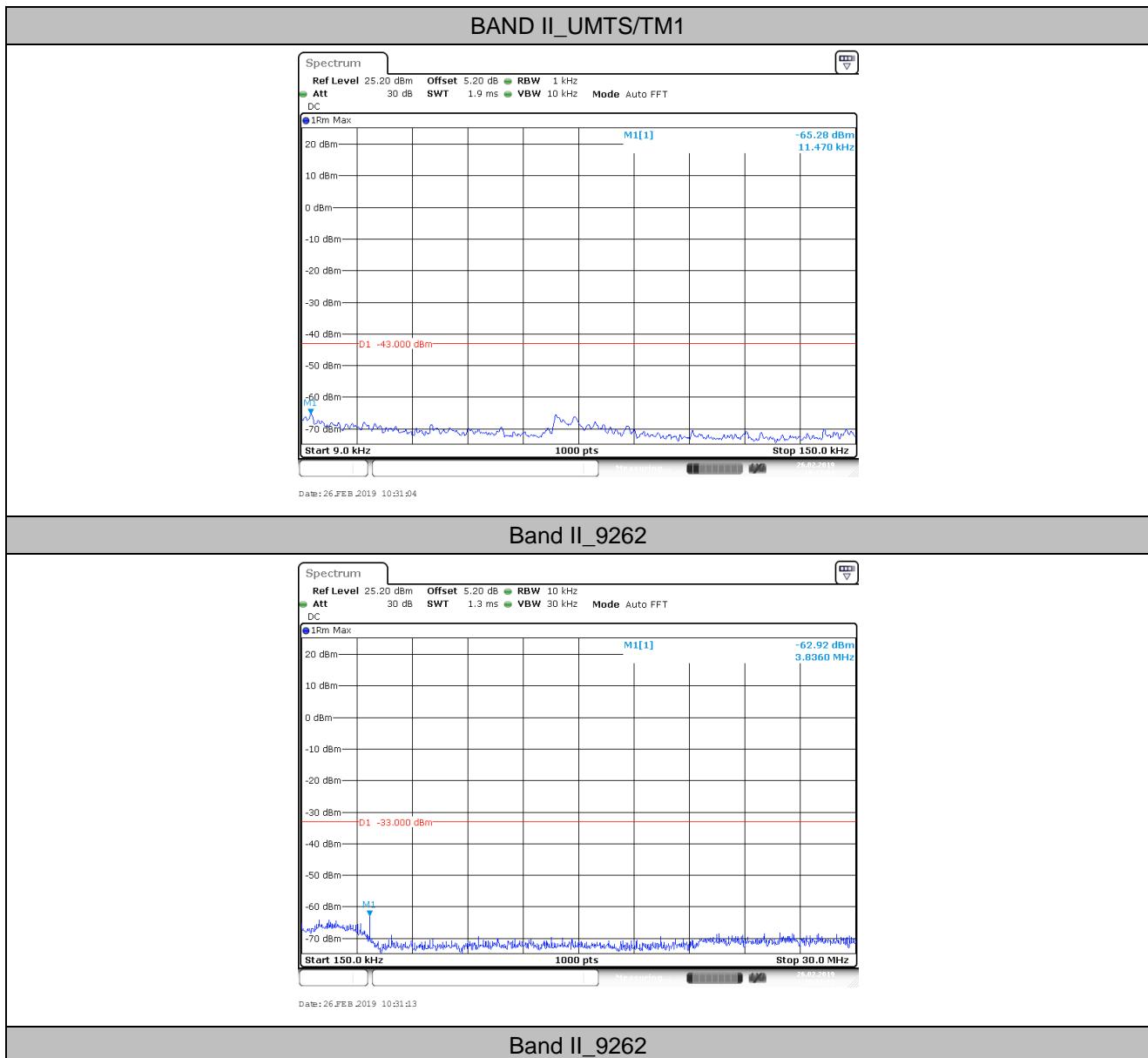
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## 6. Spurious Emission at Antenna Terminal

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  $< \text{RBW}/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k \* (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

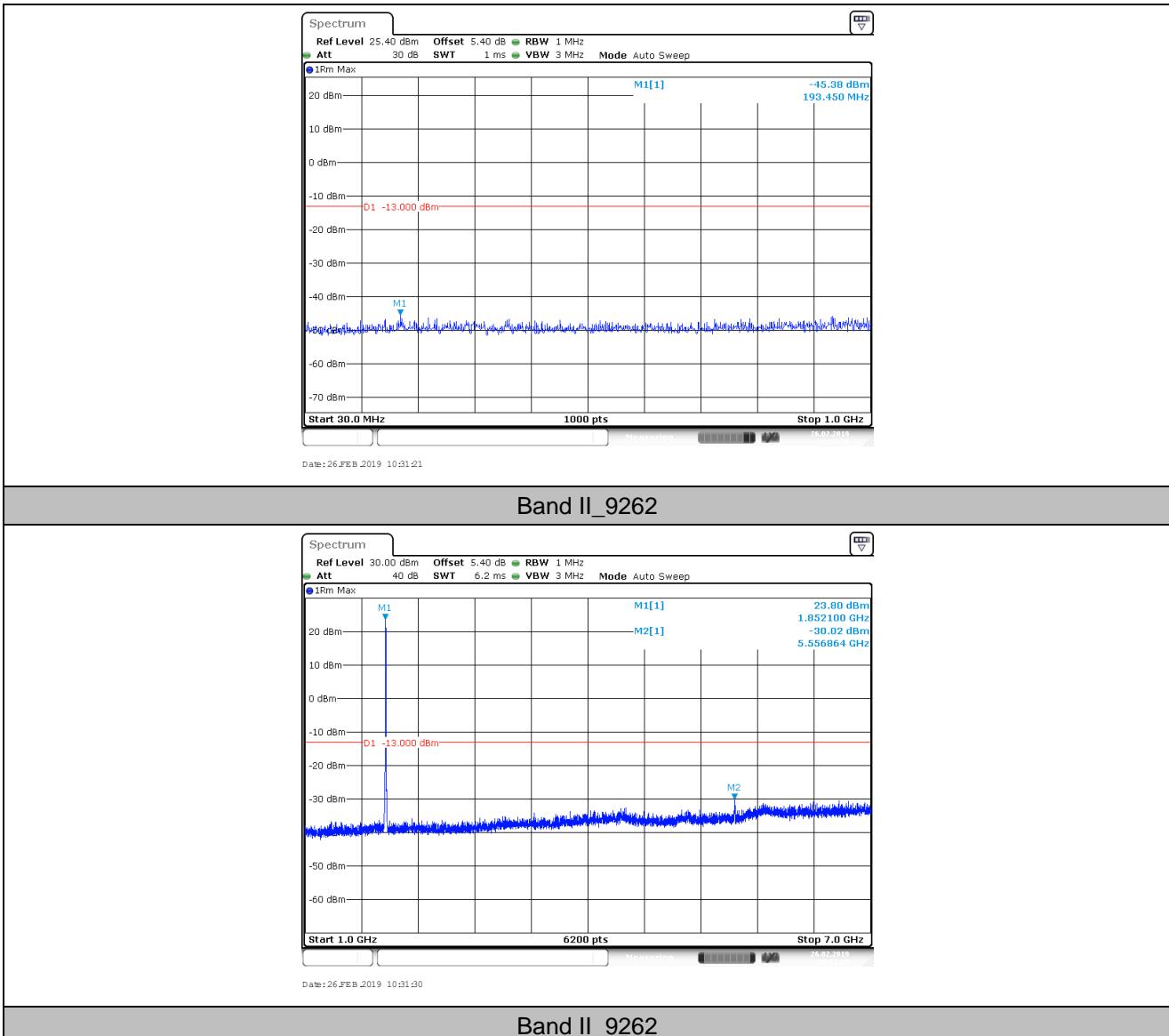


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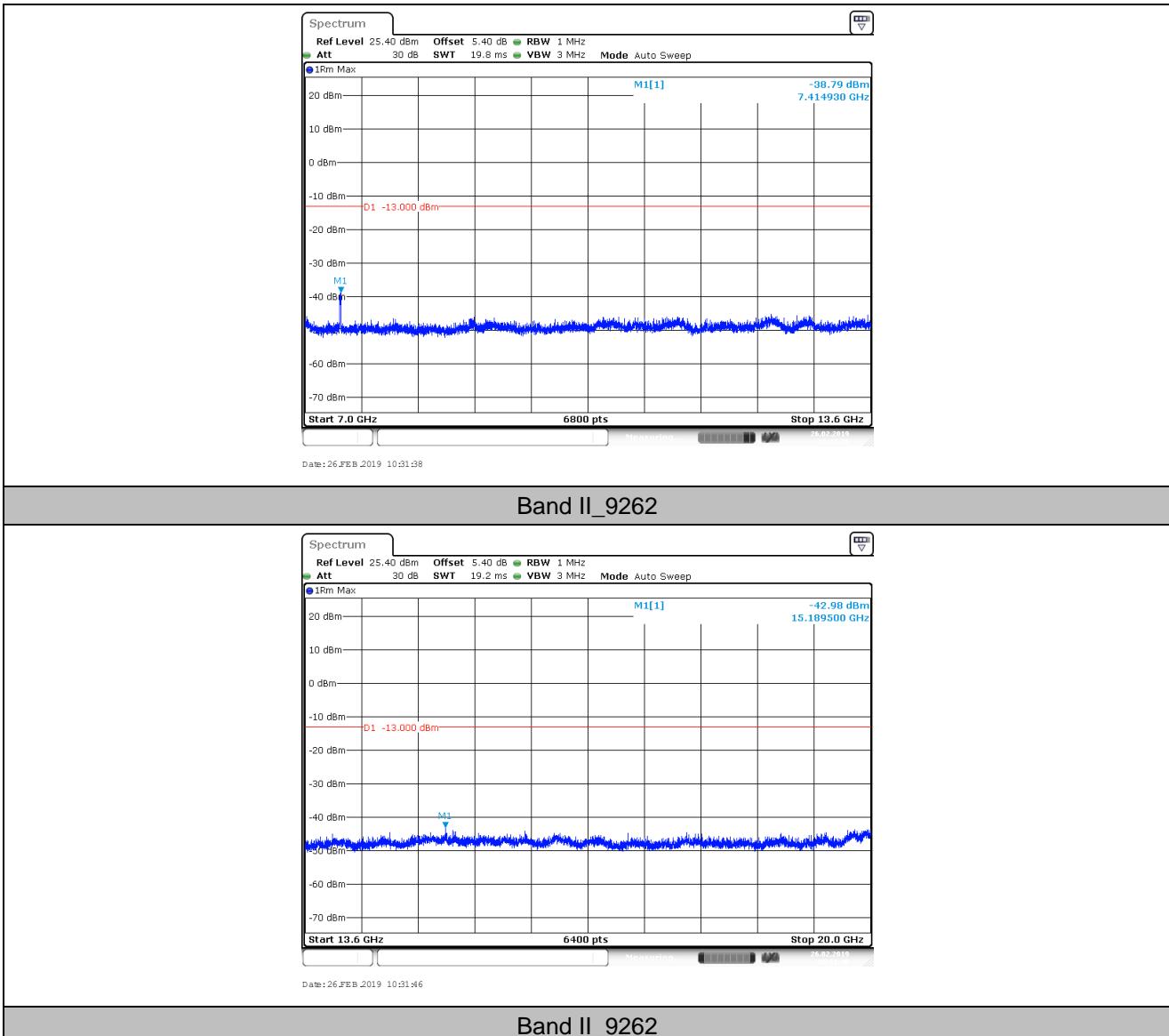


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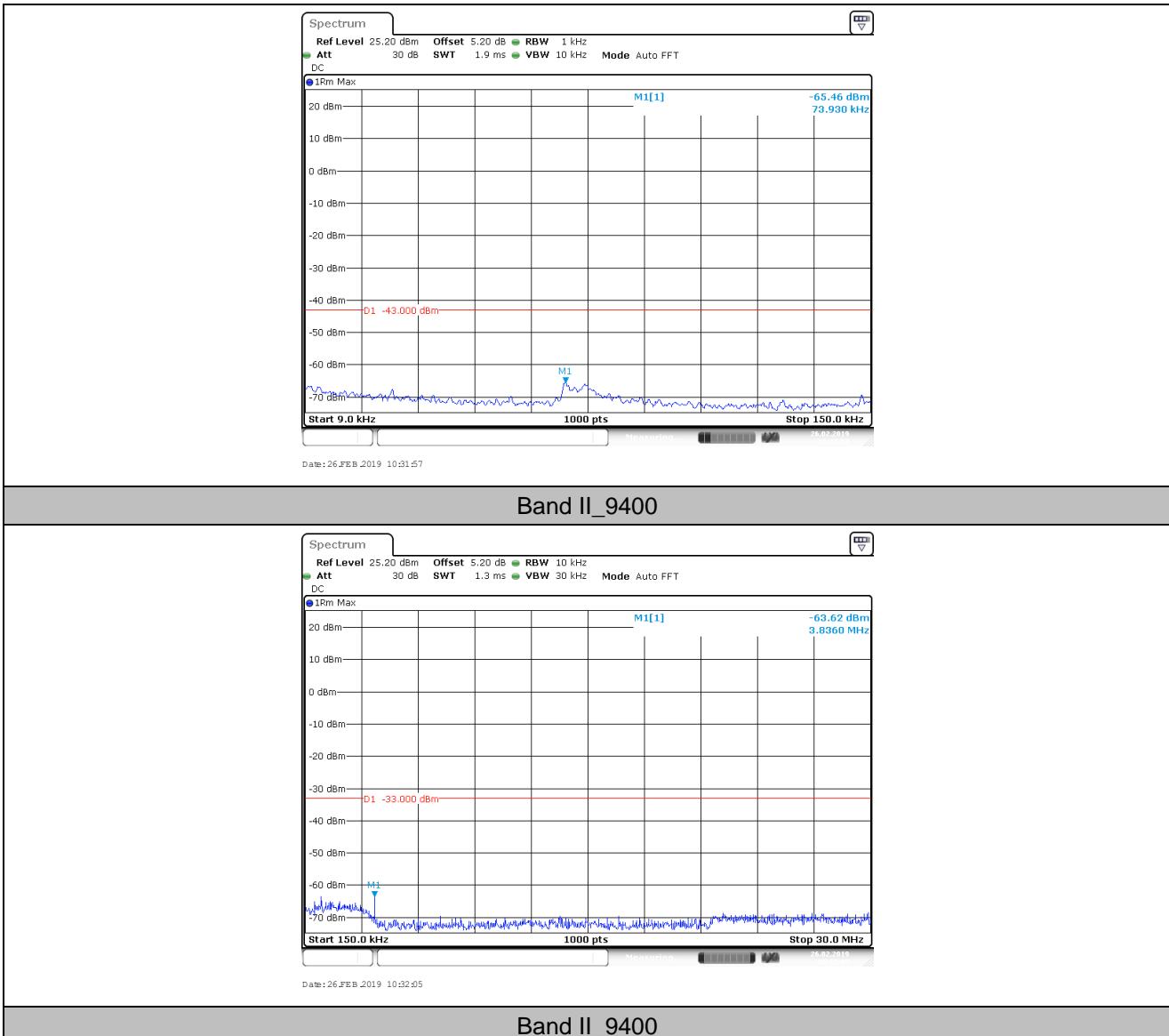
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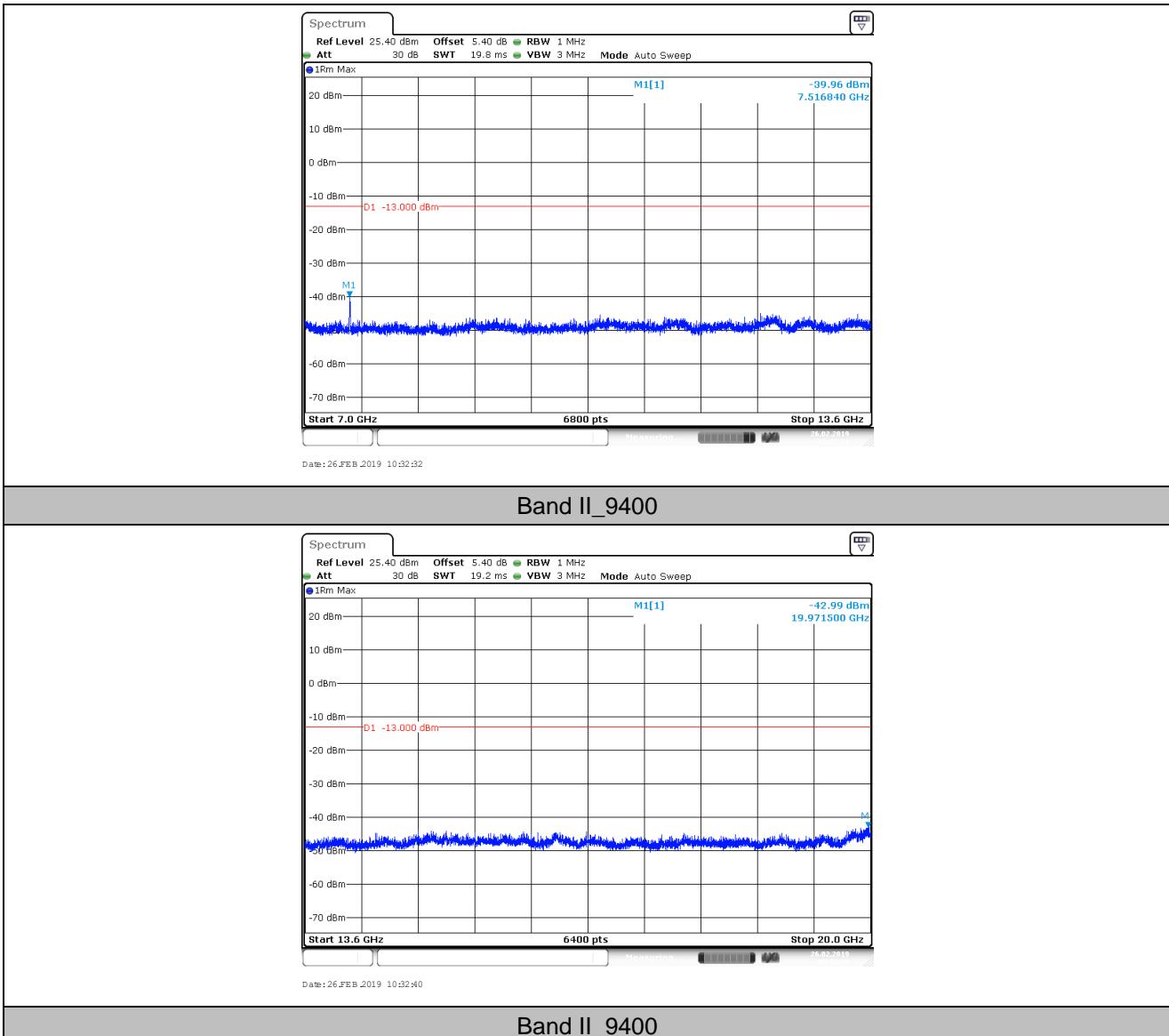
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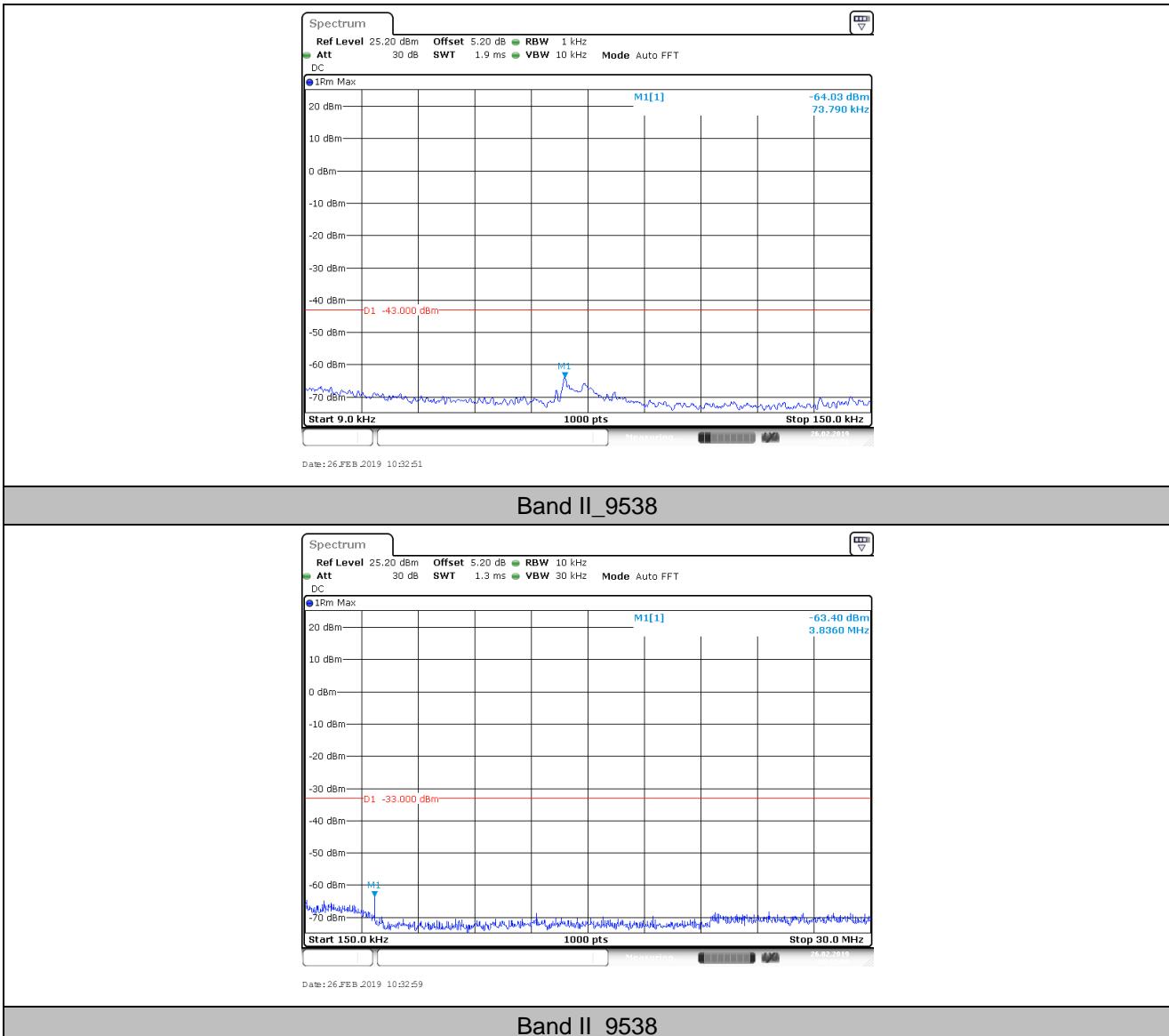


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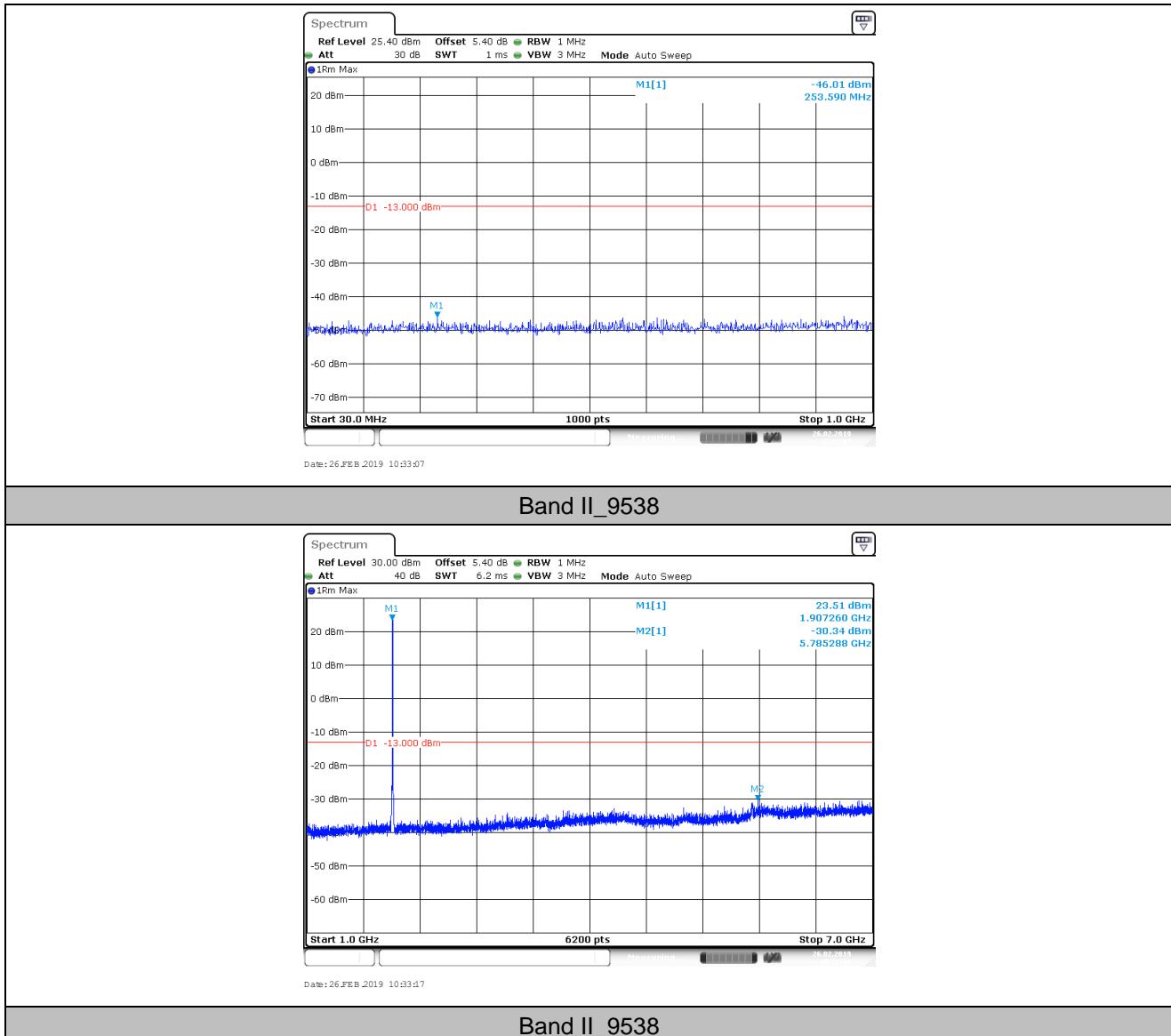
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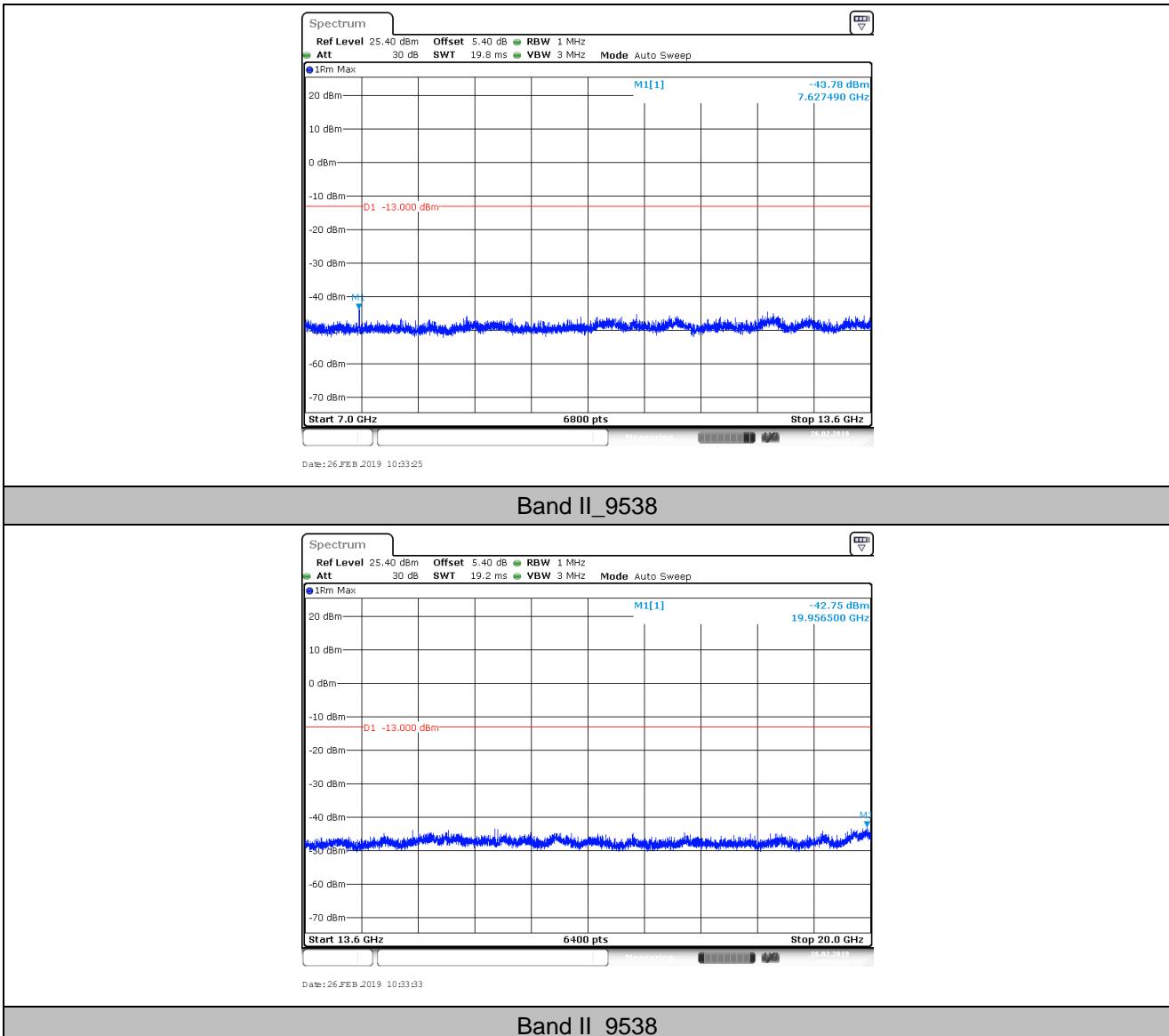
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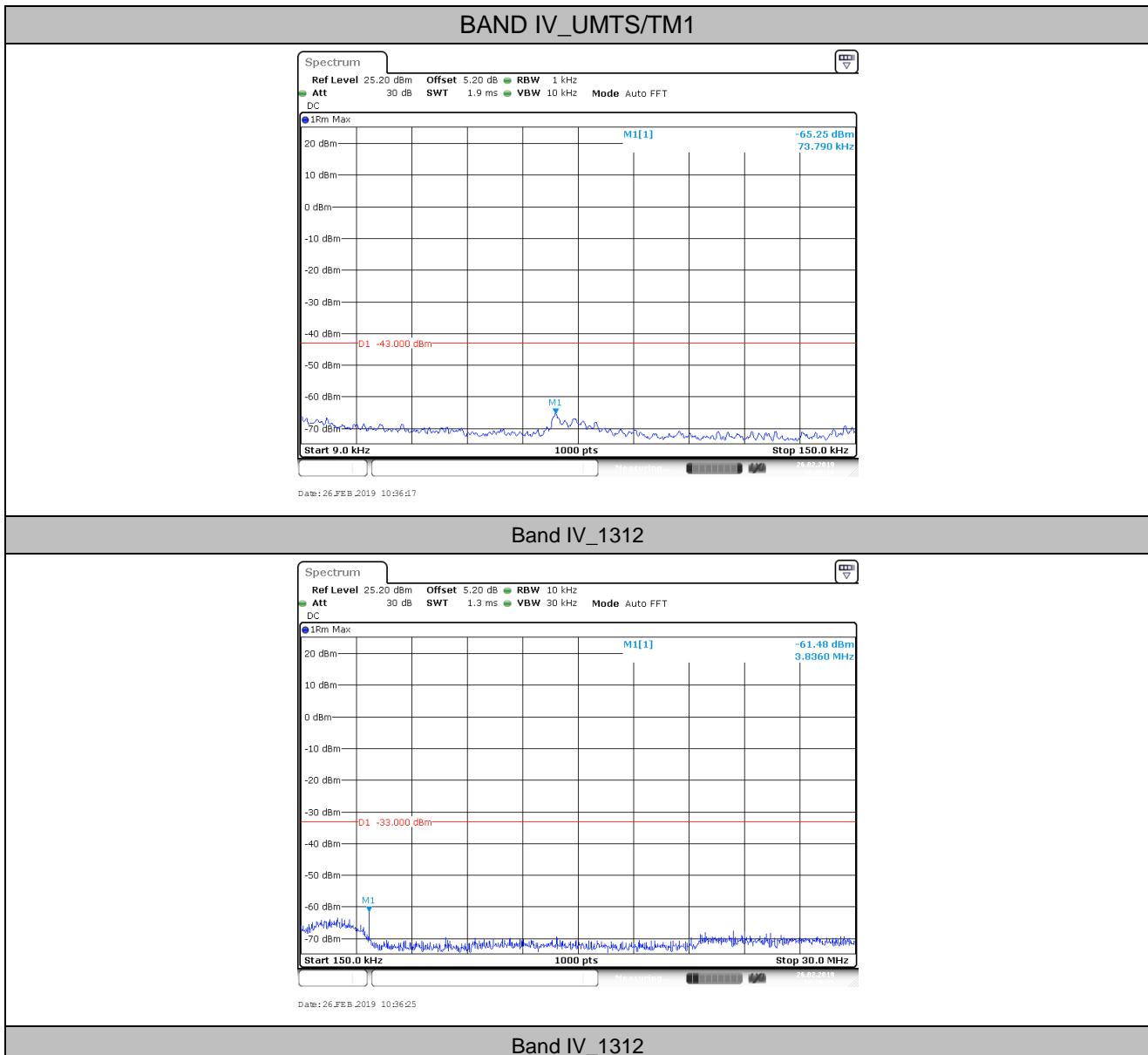
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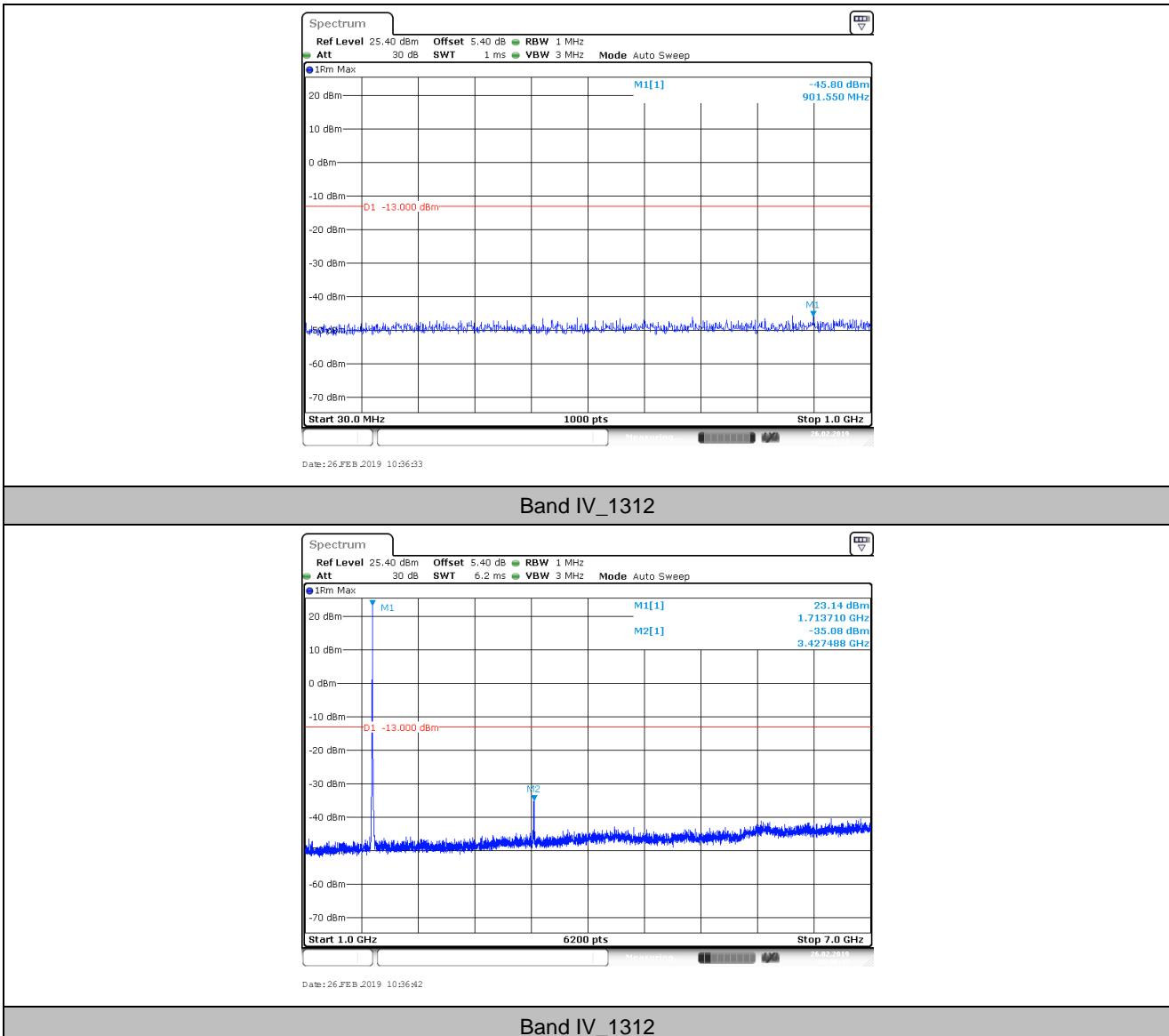


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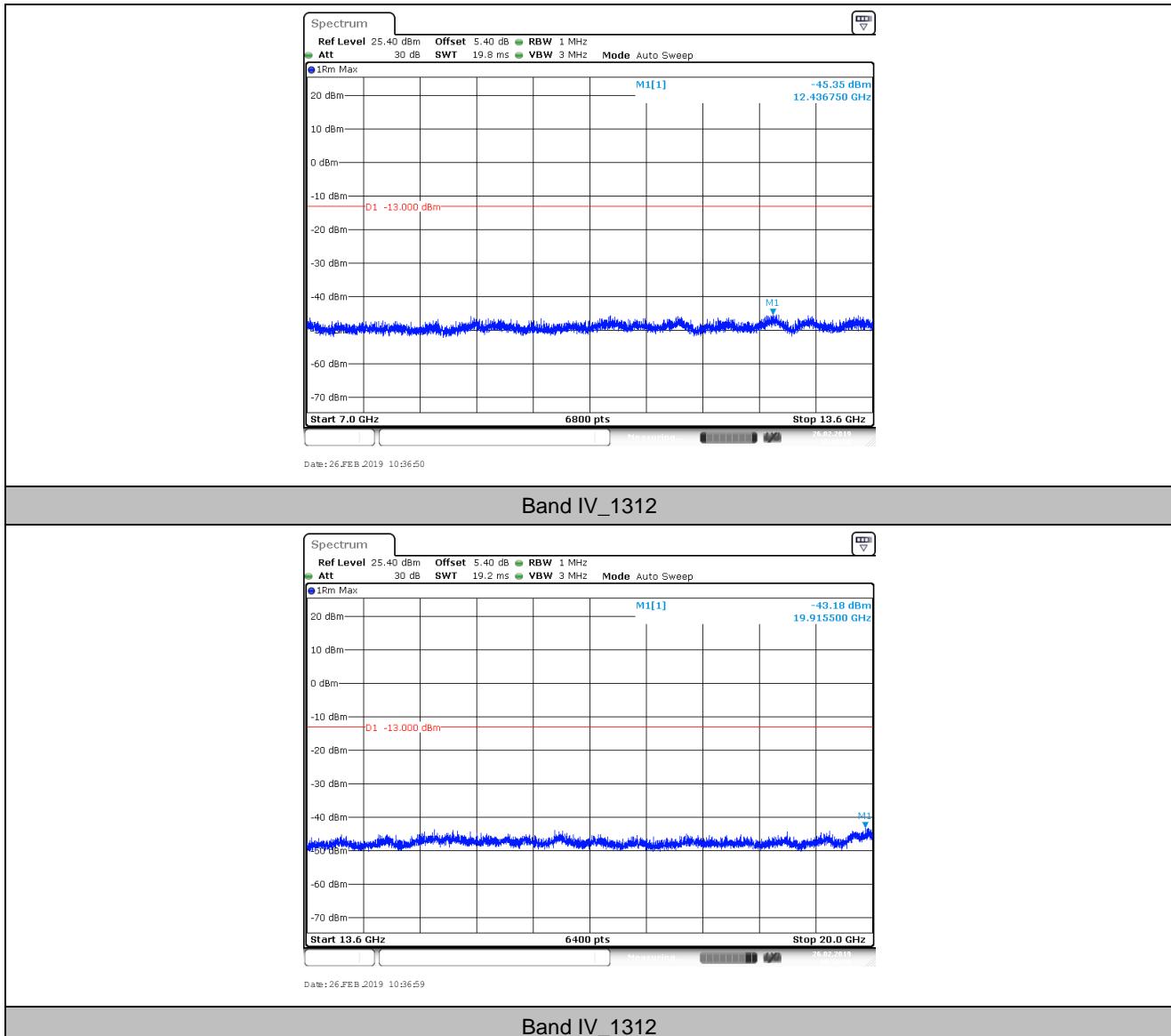


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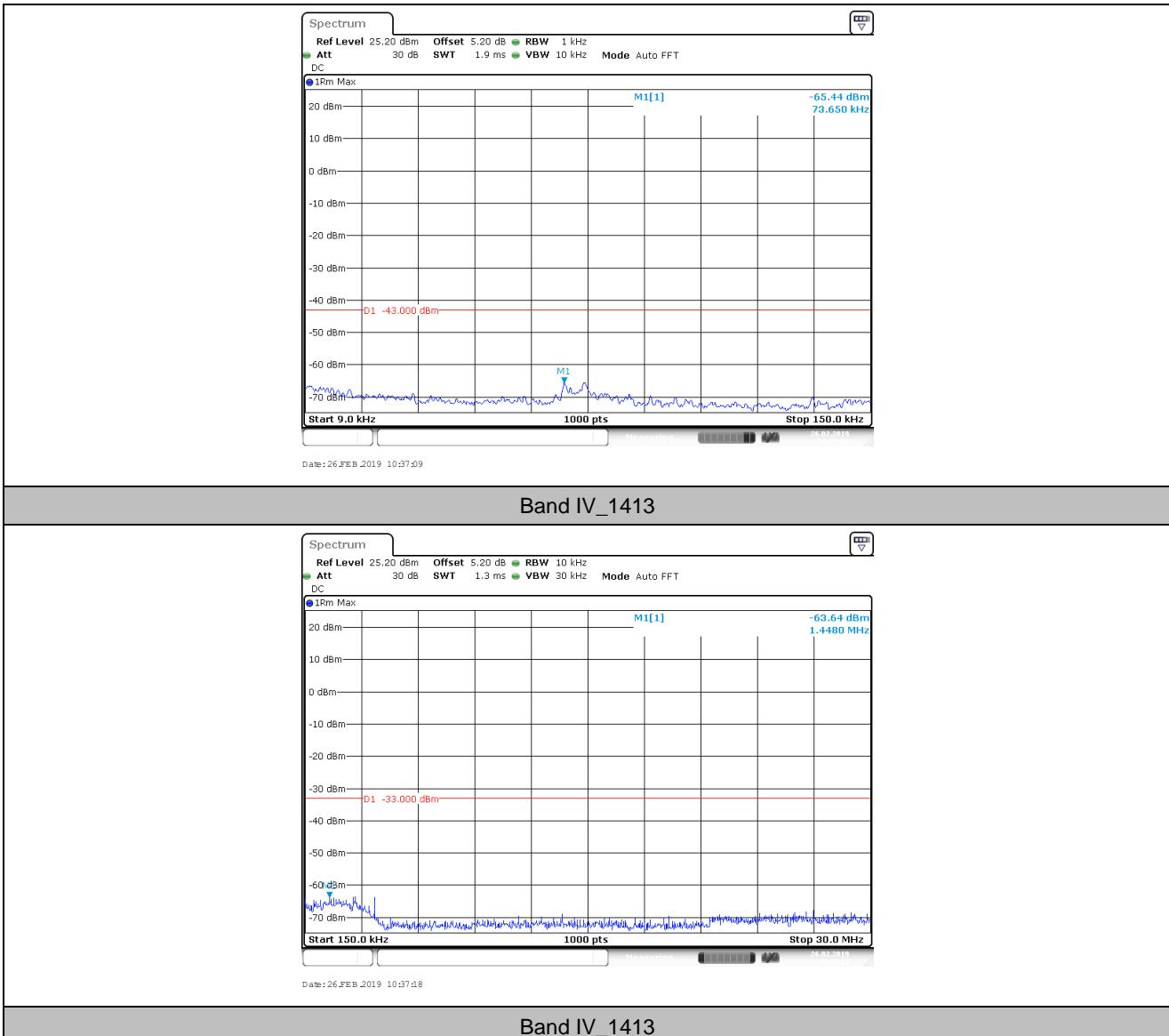
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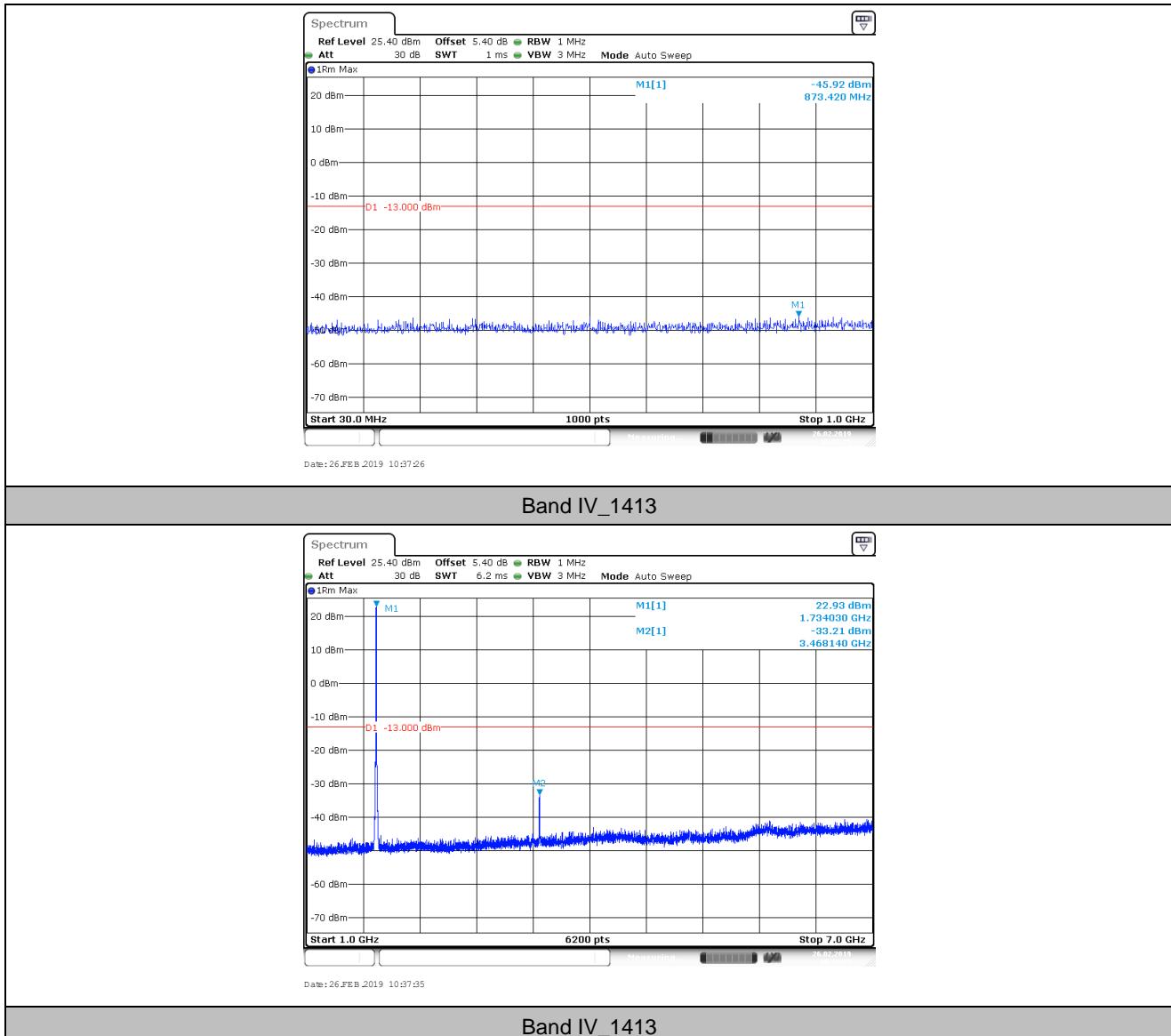
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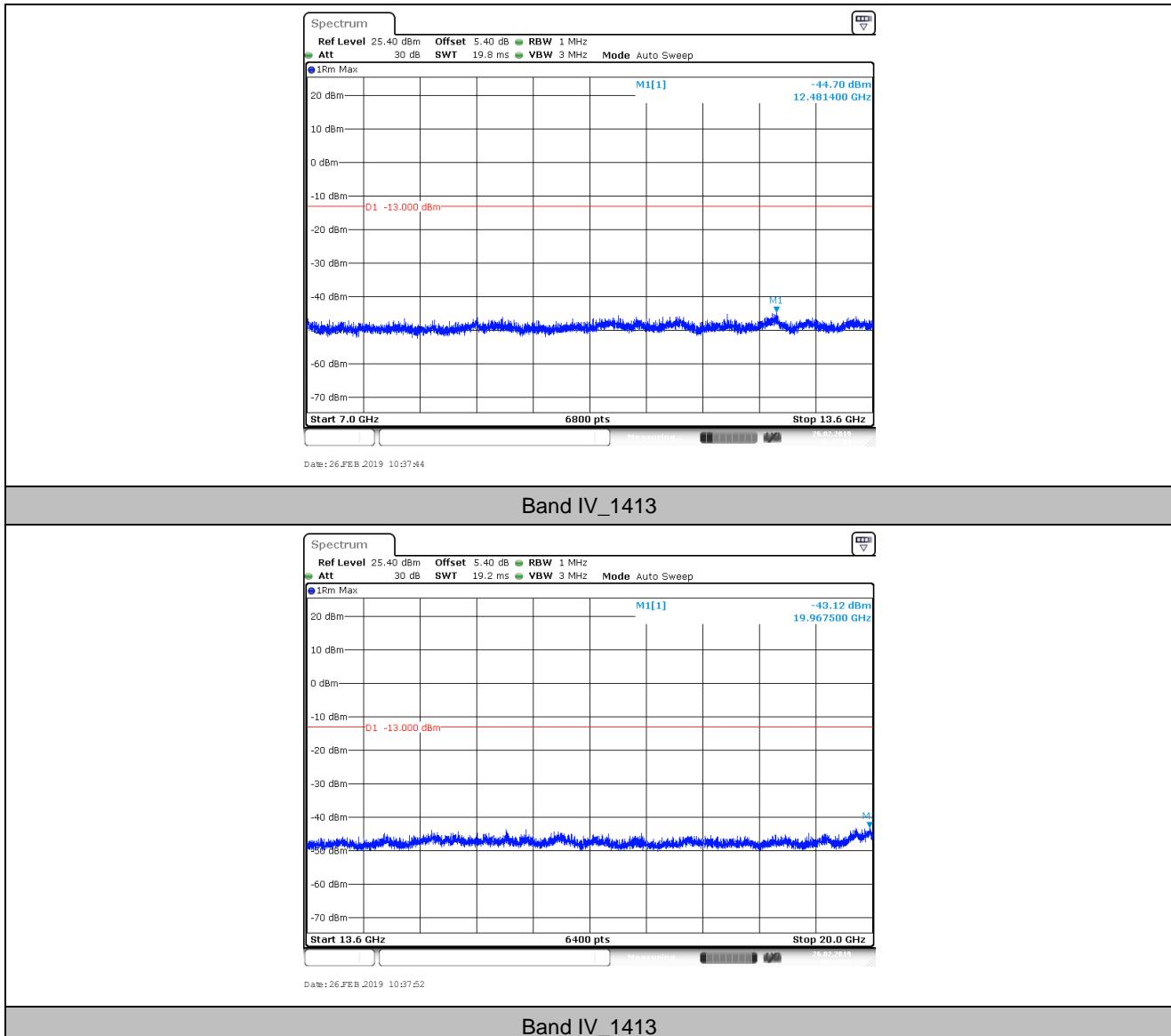


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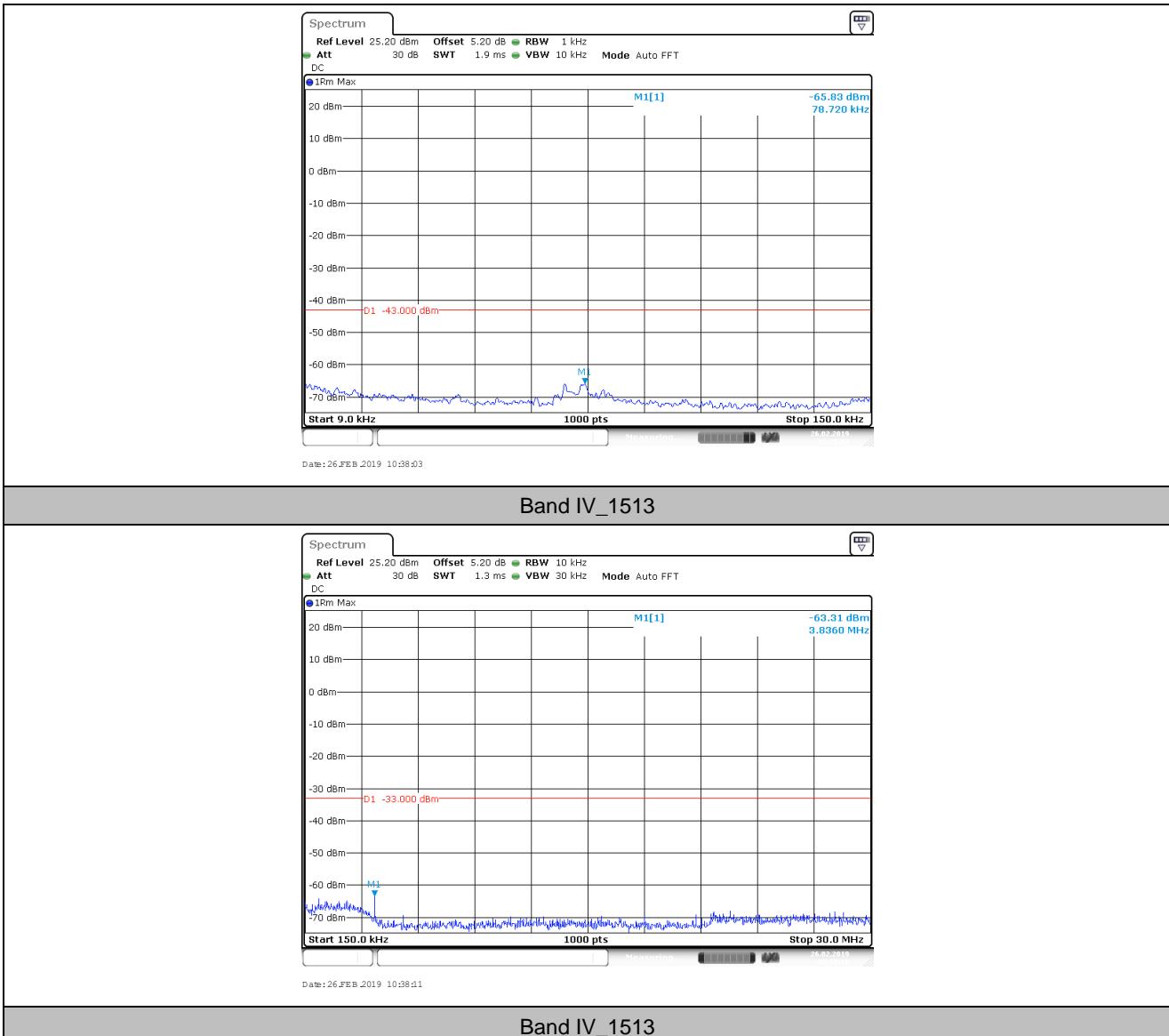


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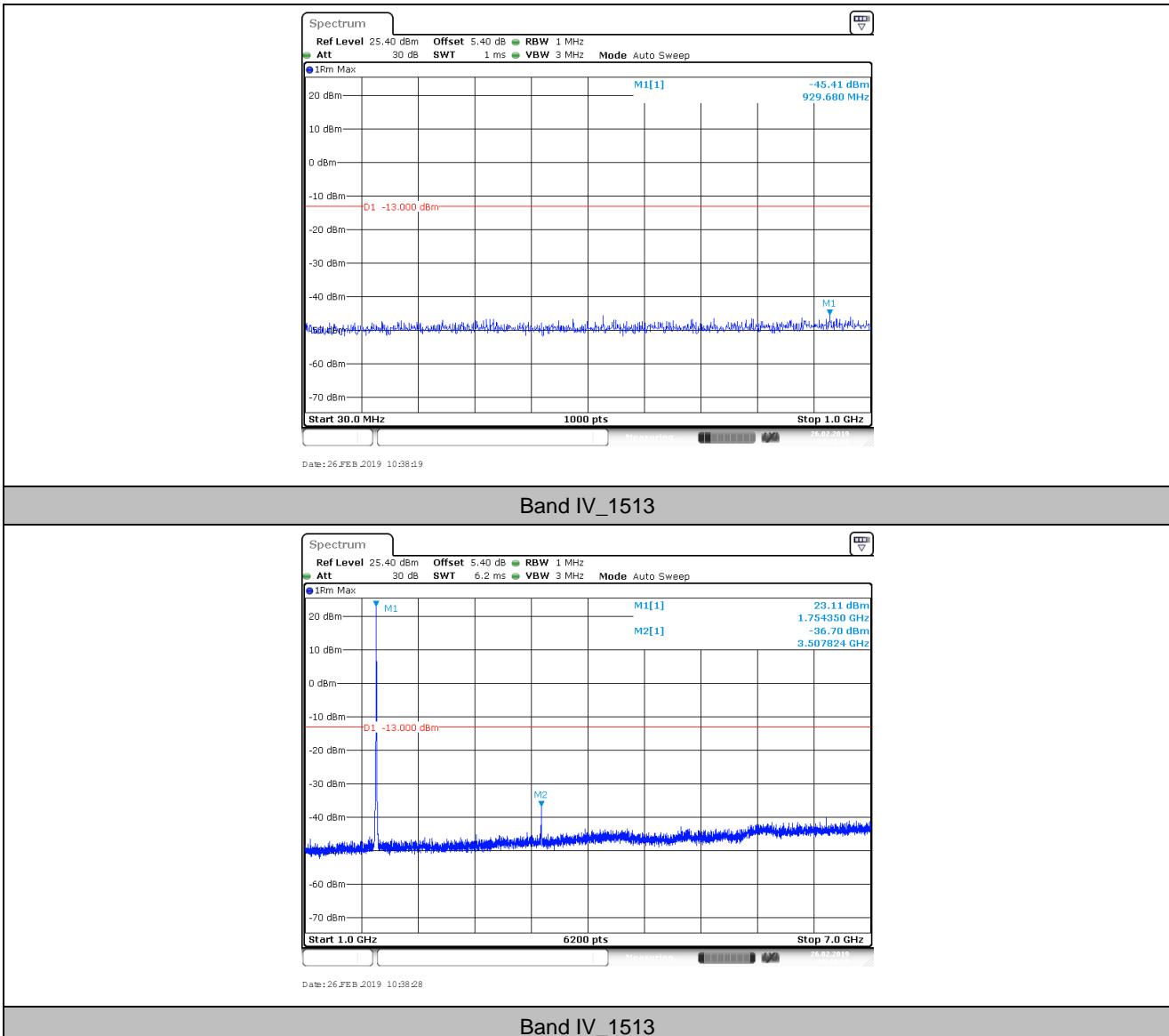
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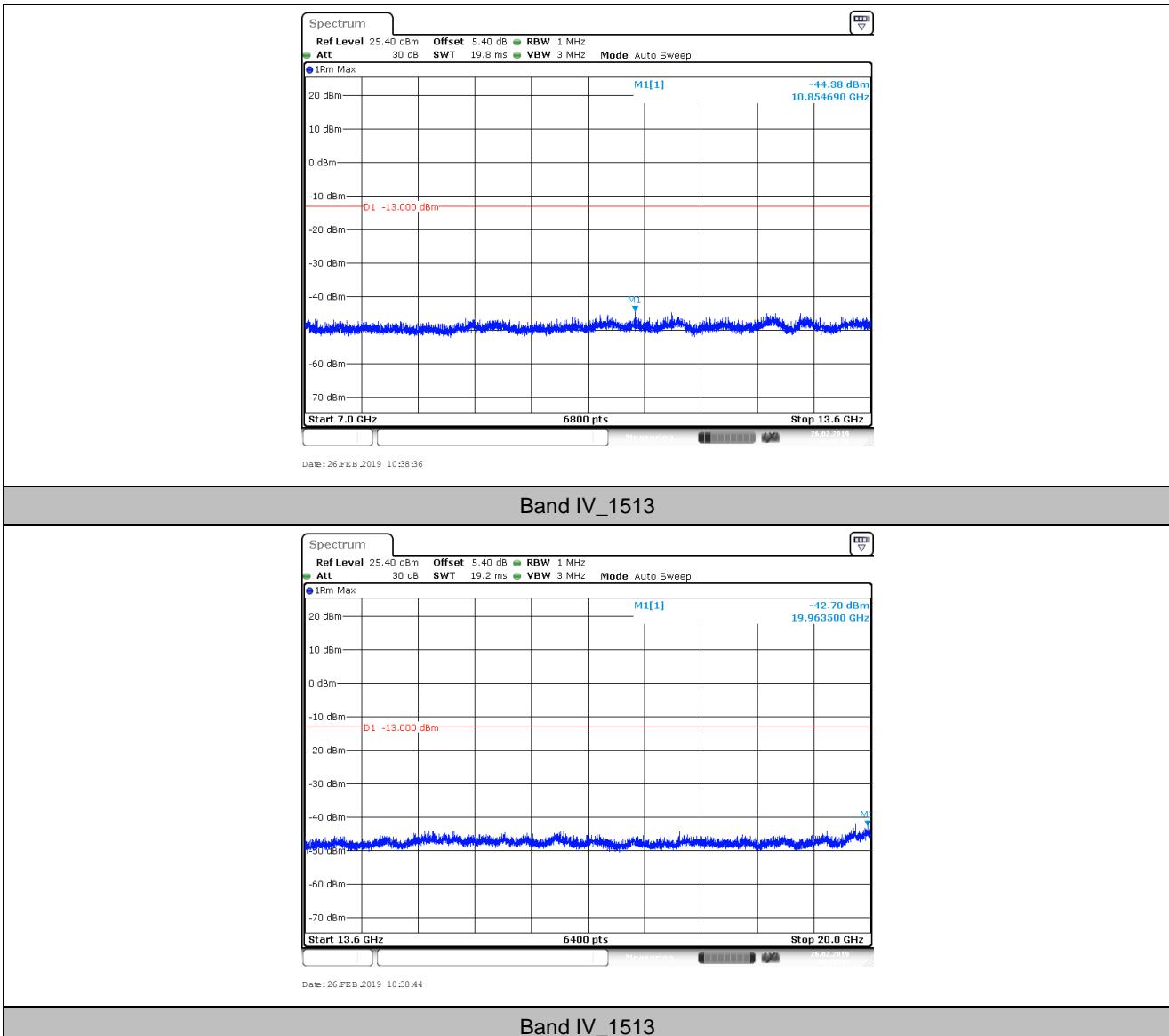


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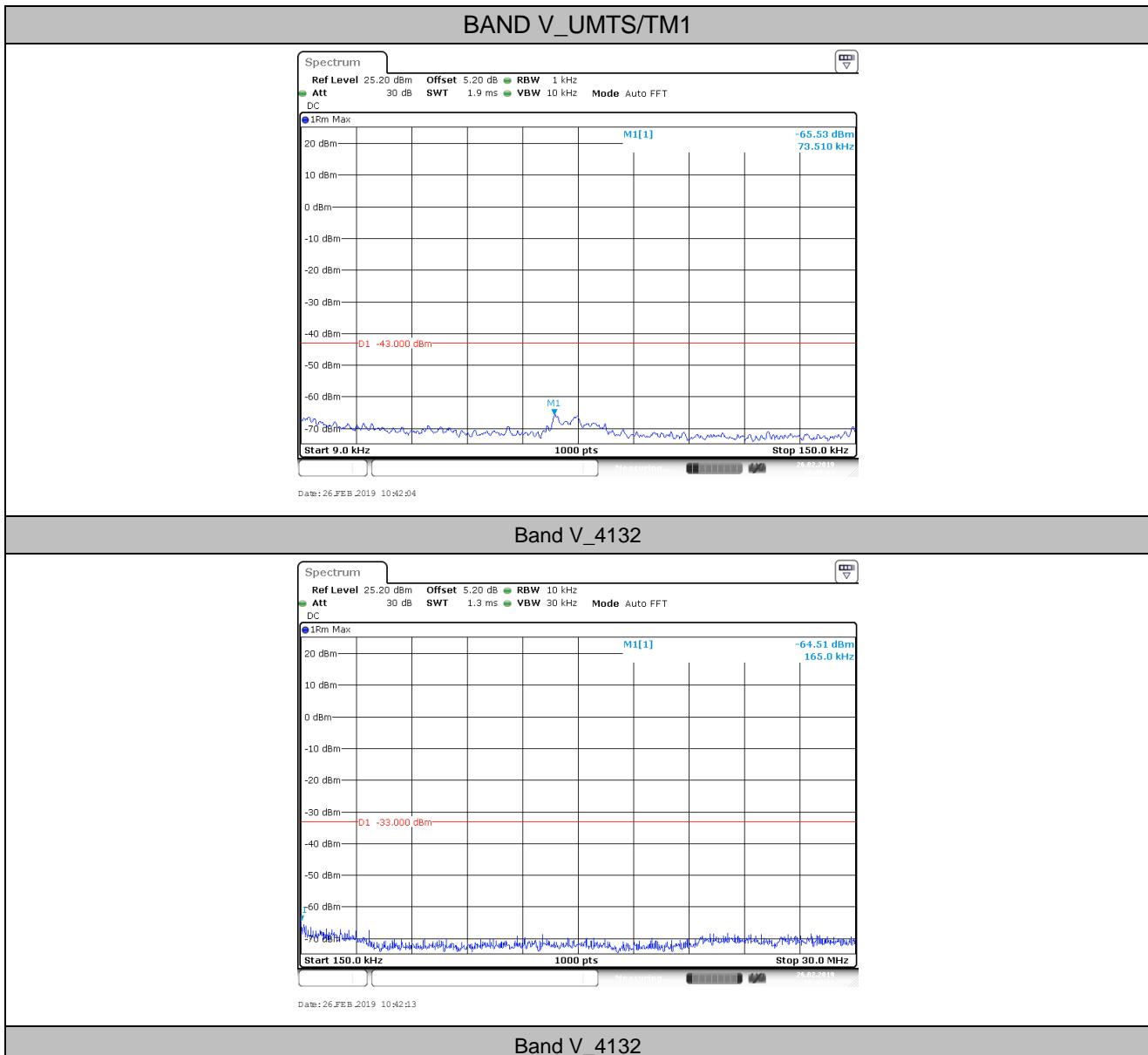


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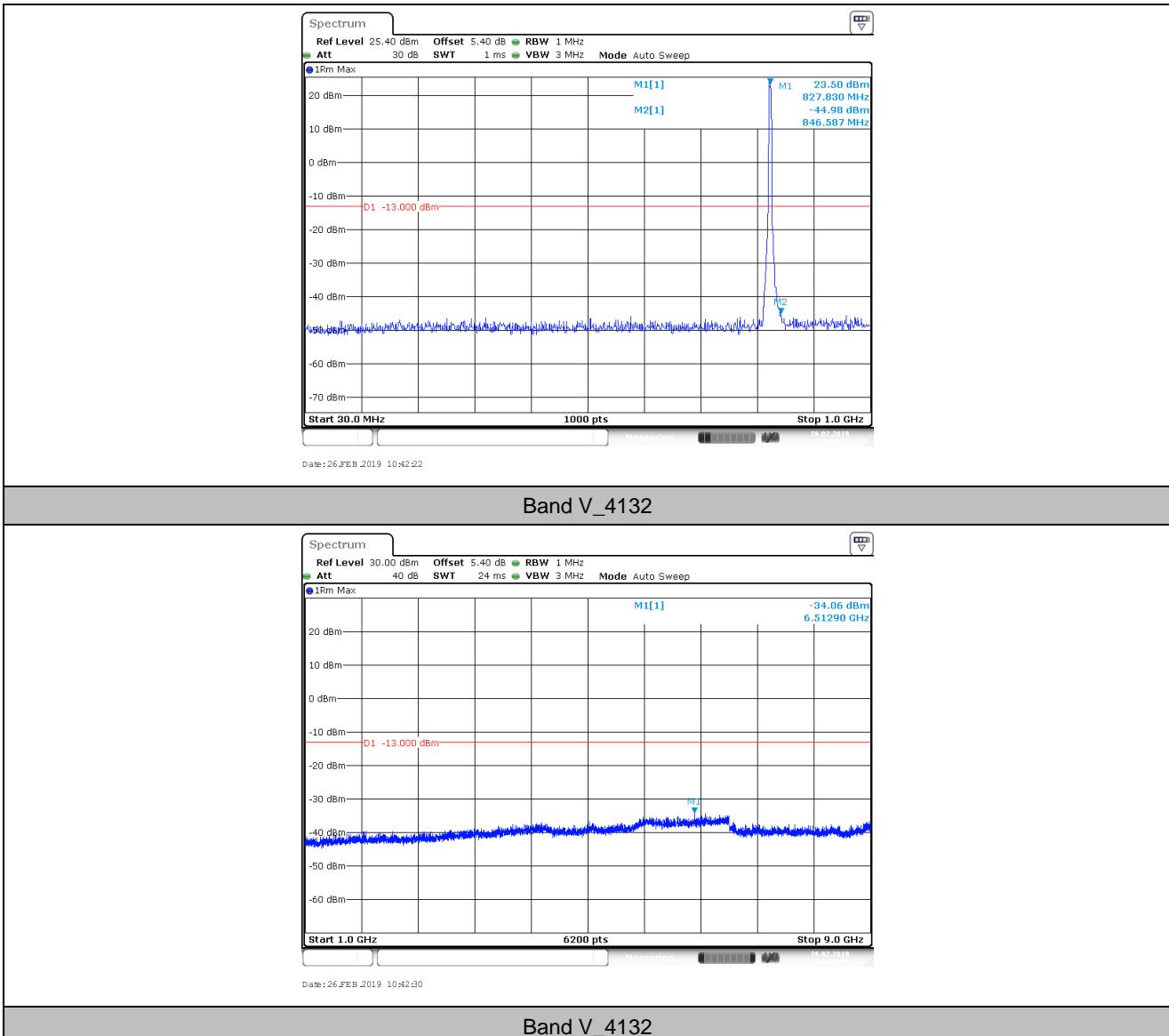


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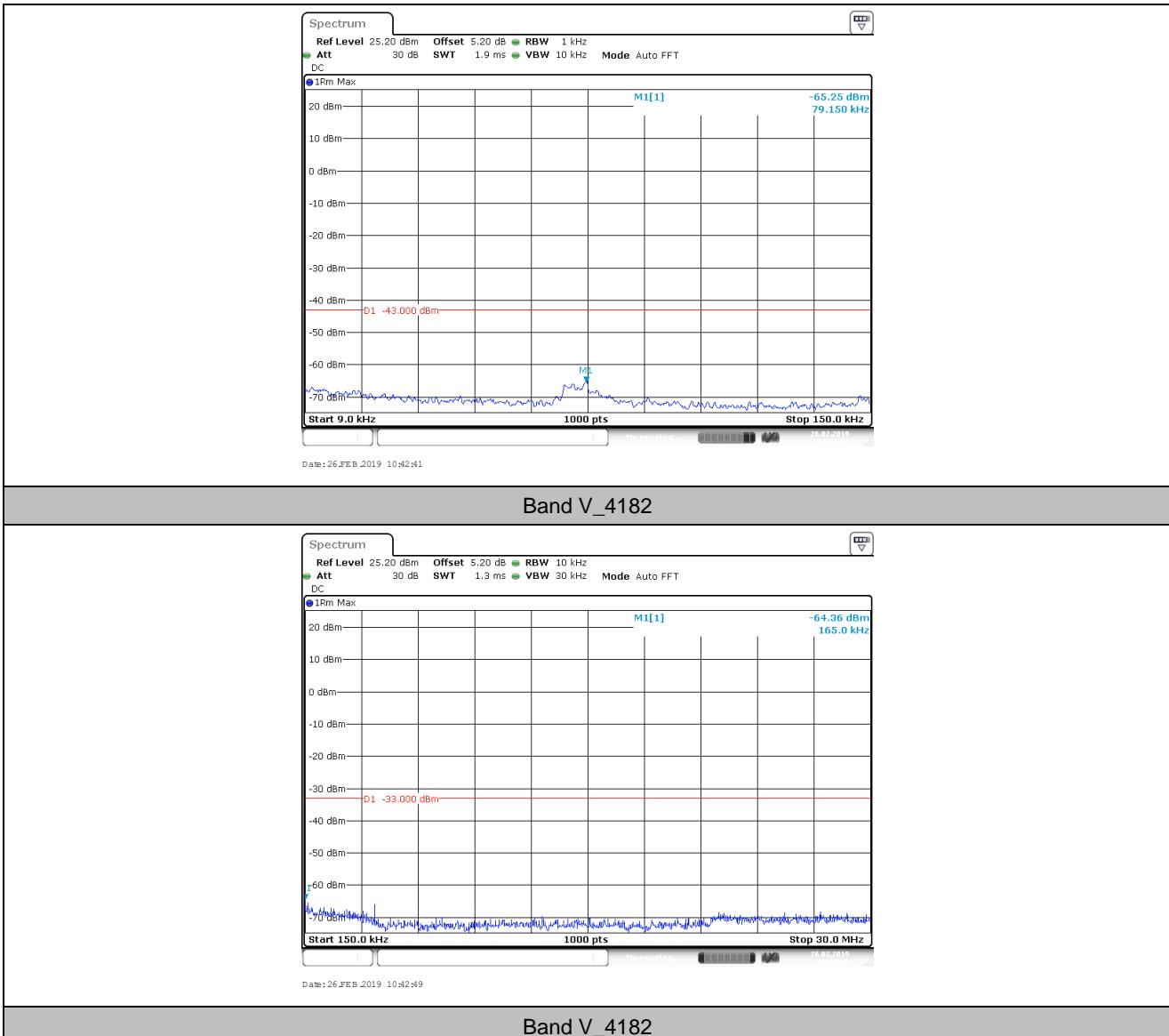
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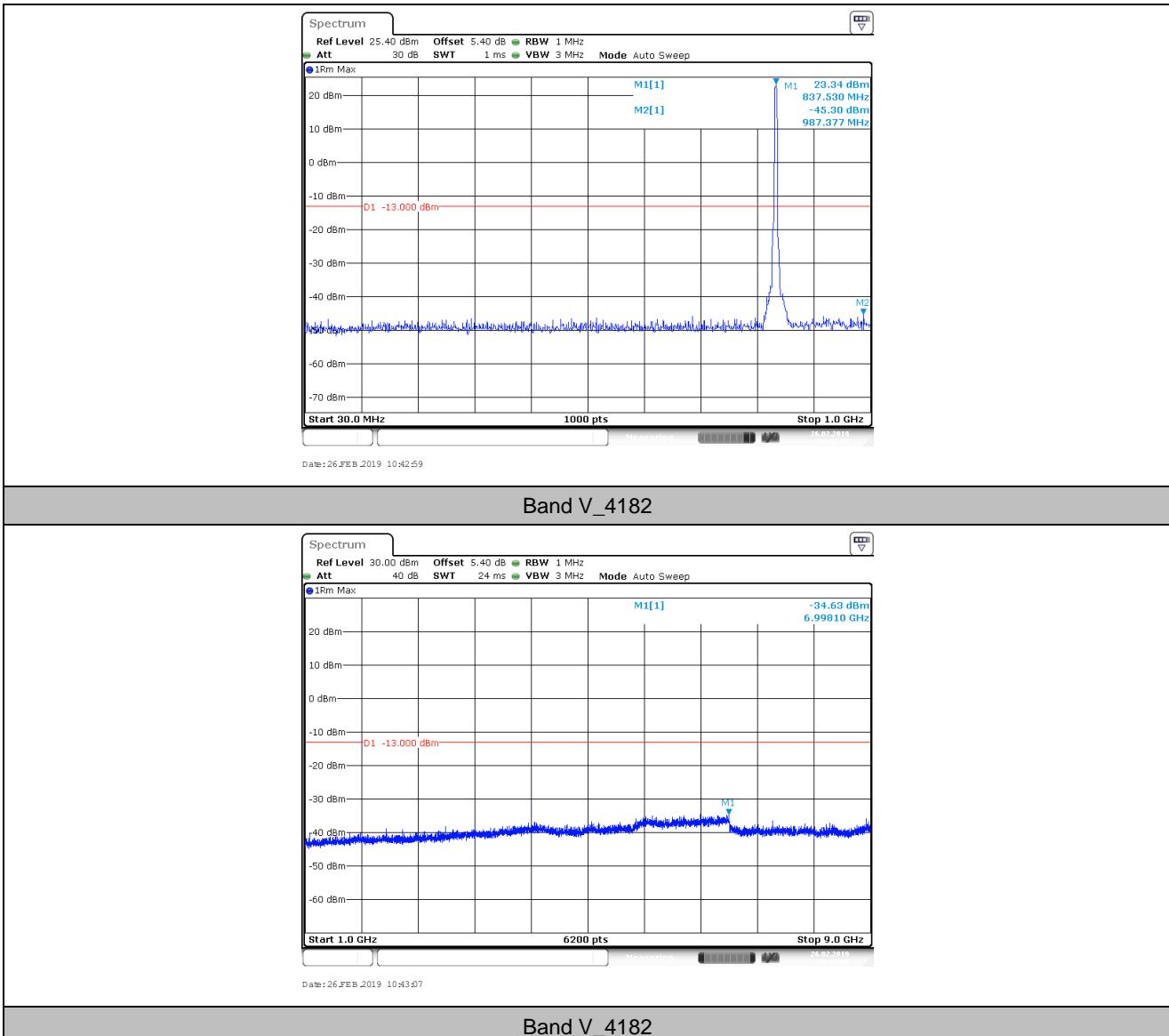
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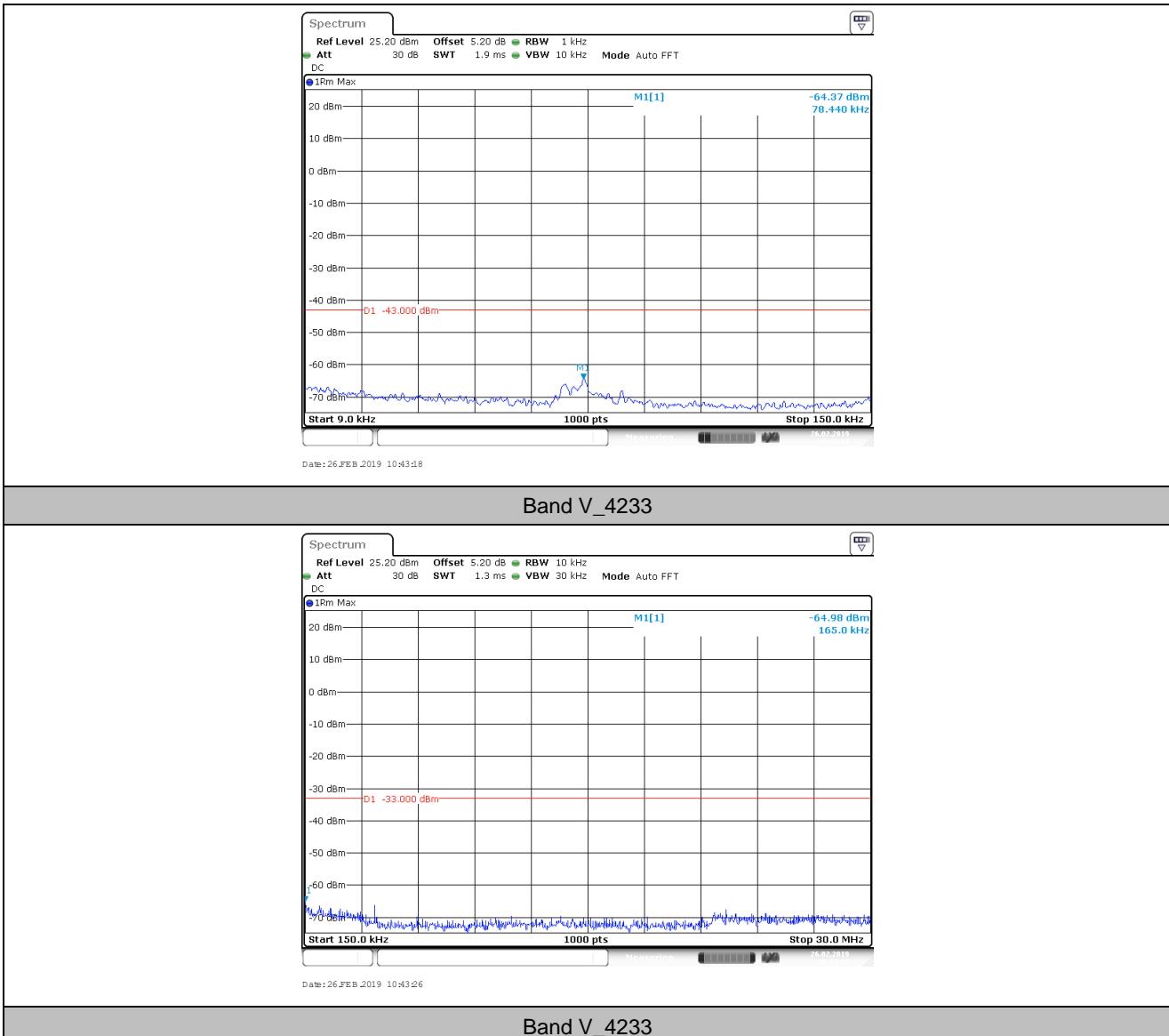
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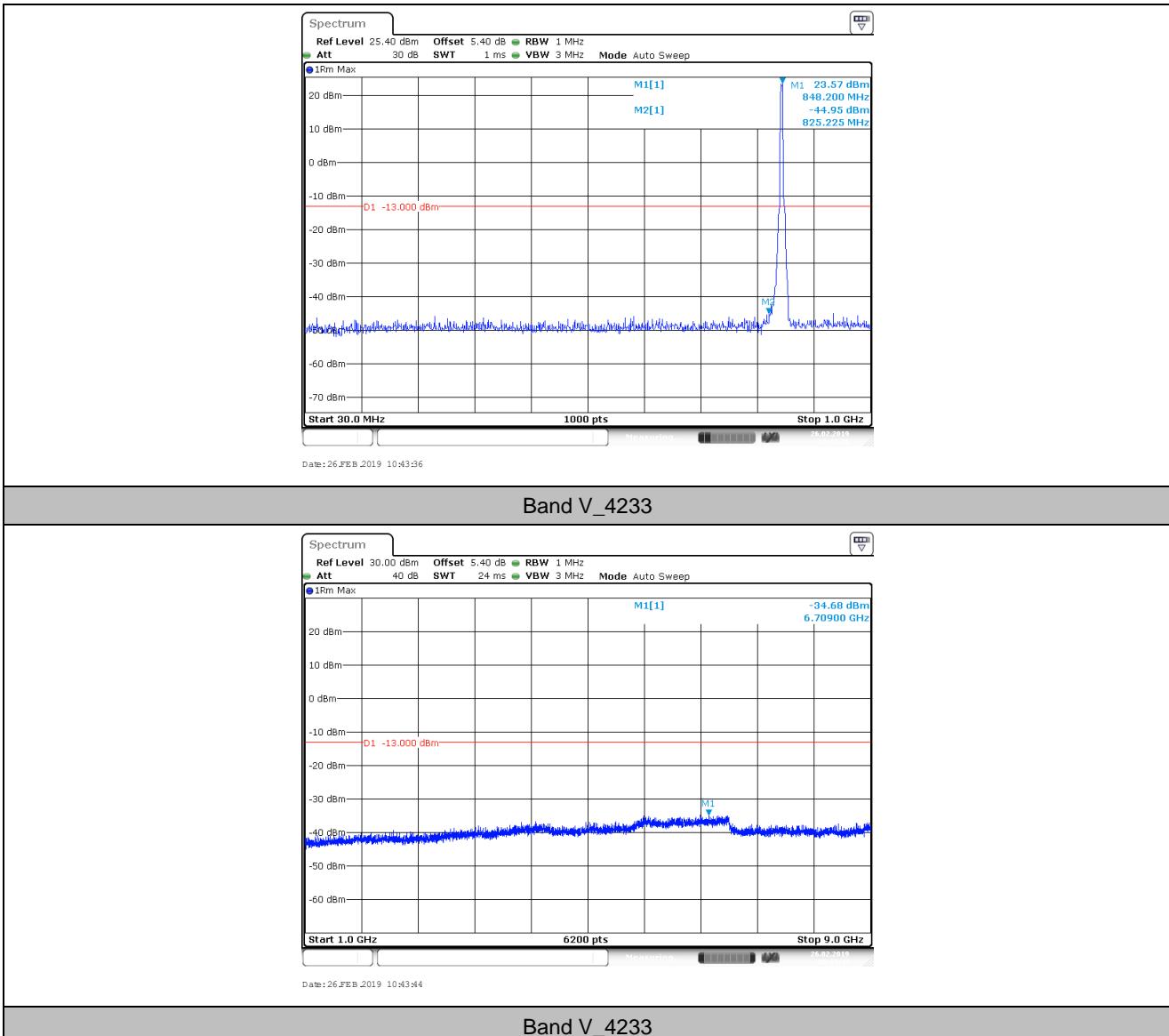
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## 7. Field Strength of Spurious Radiation

### 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 |
|-----------------|-------------|------------------|-------------|--------------|
| 48.7219         | -70.24      | -13.00           | 57.24       | Vertical     |
| 112.1146        | -65.49      | -13.00           | 52.49       | Vertical     |
| 1340.0680       | -48.04      | -13.00           | 35.04       | Vertical     |
| 2704.3409       | -36.73      | -13.00           | 23.73       | Vertical     |
| 5559.0853       | -44.93      | -13.00           | 31.93       | Vertical     |
| 17987.4996      | -33.25      | -13.00           | 20.25       | Vertical     |
| 43.5322         | -64.05      | -13.00           | 51.05       | Horizontal   |
| 249.9100        | -68.34      | -13.00           | 55.34       | Horizontal   |
| 1171.2342       | -48.25      | -13.00           | 35.25       | Horizontal   |
| 2703.9408       | -35.61      | -13.00           | 22.61       | Horizontal   |
| 5560.0853       | -41.71      | -13.00           | 28.71       | Horizontal   |
| 17993.9998      | -37.67      | -13.00           | 24.67       | Horizontal   |

##### 7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 48.7219         | -69.71      | -13.00           | 56.71       | Vertical     |
| 114.9277        | -64.74      | -13.00           | 51.74       | Vertical     |
| 1057.6115       | -50.19      | -13.00           | 37.19       | Vertical     |
| 2701.1402       | -36.75      | -13.00           | 23.75       | Vertical     |
| 5637.0879       | -49.32      | -13.00           | 36.32       | Vertical     |
| 17999.0000      | -32.88      | -13.00           | 19.88       | Vertical     |
| 42.2226         | -64.14      | -13.00           | 51.14       | Horizontal   |
| 248.2609        | -68.24      | -13.00           | 55.24       | Horizontal   |

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|            |        |        |       |            |
|------------|--------|--------|-------|------------|
| 1244.4489  | -48.17 | -13.00 | 35.17 | Horizontal |
| 2700.7401  | -35.77 | -13.00 | 22.77 | Horizontal |
| 5643.0881  | -47.14 | -13.00 | 34.14 | Horizontal |
| 17999.5000 | -37.80 | -13.00 | 24.80 | Horizontal |

### 7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 48.7704         | -69.68      | -13.00           | 56.68       | Vertical     |
| 110.2715        | -64.70      | -13.00           | 51.70       | Vertical     |
| 1282.0564       | -48.02      | -13.00           | 35.02       | Vertical     |
| 2703.9408       | -36.70      | -13.00           | 23.70       | Vertical     |
| 5726.0909       | -50.54      | -13.00           | 37.54       | Vertical     |
| 17994.4998      | -33.07      | -13.00           | 20.07       | Vertical     |
| 45.1328         | -63.92      | -13.00           | 50.92       | Horizontal   |
| 236.2323        | -68.41      | -13.00           | 55.41       | Horizontal   |
| 1222.0444       | -48.42      | -13.00           | 35.42       | Horizontal   |
| 2697.9396       | -35.51      | -13.00           | 22.51       | Horizontal   |
| 5725.5909       | -49.24      | -13.00           | 36.24       | Horizontal   |
| 17999.0000      | -37.77      | -13.00           | 24.77       | Horizontal   |

## 7.2. Test BAND = WCDMA BAND IV

### 7.2.1. Test Mode =WCDMA/TM1

#### 7.2.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 49.5950         | -71.47      | -13.00           | 58.47       | Vertical     |
| 112.1146        | -65.05      | -13.00           | 52.05       | Vertical     |
| 1344.8690       | -47.89      | -13.00           | 34.89       | Vertical     |
| 2691.5383       | -36.91      | -13.00           | 23.91       | Vertical     |
| 3426.5142       | -47.73      | -13.00           | 34.73       | Vertical     |
| 17994.9998      | -33.08      | -13.00           | 20.08       | Vertical     |

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|            |        |        |       |            |
|------------|--------|--------|-------|------------|
| 42.8046    | -64.60 | -13.00 | 51.60 | Horizontal |
| 241.4706   | -68.82 | -13.00 | 55.82 | Horizontal |
| 1188.8378  | -48.46 | -13.00 | 35.46 | Horizontal |
| 2701.1402  | -35.63 | -13.00 | 22.63 | Horizontal |
| 3426.5142  | -46.34 | -13.00 | 33.34 | Horizontal |
| 17999.0000 | -37.82 | -13.00 | 24.82 | Horizontal |

### 7.2.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 44.3567         | -68.60      | -13.00           | 55.60       | Vertical     |
| 116.6738        | -64.75      | -13.00           | 51.75       | Vertical     |
| 1150.8302       | -48.69      | -13.00           | 35.69       | Vertical     |
| 2700.7401       | -36.84      | -13.00           | 23.84       | Vertical     |
| 3463.0154       | -46.88      | -13.00           | 33.88       | Vertical     |
| 17984.9995      | -33.04      | -13.00           | 20.04       | Vertical     |
| 43.1442         | -63.46      | -13.00           | 50.46       | Horizontal   |
| 249.4735        | -68.50      | -13.00           | 55.50       | Horizontal   |
| 1187.6375       | -48.64      | -13.00           | 35.64       | Horizontal   |
| 2698.7397       | -35.46      | -13.00           | 22.46       | Horizontal   |
| 3466.5156       | -45.14      | -13.00           | 32.14       | Horizontal   |
| 17991.9997      | -37.75      | -13.00           | 24.75       | Horizontal   |

### 7.2.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 48.7704         | -70.59      | -13.00           | 57.59       | Vertical     |
| 108.5254        | -64.87      | -13.00           | 51.87       | Vertical     |
| 1416.0832       | -47.63      | -13.00           | 34.63       | Vertical     |
| 2695.5391       | -36.90      | -13.00           | 23.90       | Vertical     |
| 3504.0168       | -51.96      | -13.00           | 38.96       | Vertical     |
| 17999.0000      | -32.65      | -13.00           | 19.65       | Vertical     |
| 43.5322         | -64.19      | -13.00           | 51.19       | Horizontal   |

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|            |        |        |       |            |
|------------|--------|--------|-------|------------|
| 240.6945   | -67.50 | -13.00 | 54.50 | Horizontal |
| 1196.0392  | -48.52 | -13.00 | 35.52 | Horizontal |
| 2692.3385  | -35.38 | -13.00 | 22.38 | Horizontal |
| 3503.0168  | -50.78 | -13.00 | 37.78 | Horizontal |
| 17998.5000 | -37.39 | -13.00 | 24.39 | Horizontal |

### 7.3. Test BAND = WCDMA BAND V

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

##### 7.3.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 30.8245         | -72.42      | -13.00           | 59.42       | Vertical     |
| 109.1075        | -65.06      | -13.00           | 52.06       | Vertical     |
| 607.3244        | -64.34      | -13.00           | 51.34       | Vertical     |
| 1650.9302       | -50.38      | -13.00           | 37.38       | Vertical     |
| 9901.2300       | -47.56      | -13.00           | 34.56       | Vertical     |
| 17994.9998      | -31.60      | -13.00           | 18.60       | Vertical     |
| 43.6292         | -64.45      | -13.00           | 51.45       | Horizontal   |
| 242.5861        | -67.30      | -13.00           | 54.30       | Horizontal   |
| 593.9377        | -64.82      | -13.00           | 51.82       | Horizontal   |
| 1654.1308       | -53.27      | -13.00           | 40.27       | Horizontal   |
| 3000.0000       | -56.07      | -13.00           | 43.07       | Horizontal   |
| 17999.0000      | -36.77      | -13.00           | 23.77       | Horizontal   |

##### 7.3.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 31.0186         | -72.20      | -13.00           | 59.20       | Vertical     |
| 114.2002        | -64.79      | -13.00           | 51.79       | Vertical     |
| 637.5899        | -63.35      | -13.00           | 50.35       | Vertical     |
| 1674.5349       | -49.10      | -13.00           | 36.10       | Vertical     |
| 5596.0865       | -54.91      | -13.00           | 41.91       | Vertical     |
| 17997.4999      | -31.58      | -13.00           | 18.58       | Vertical     |
| 43.8232         | -64.57      | -13.00           | 51.57       | Horizontal   |
| 242.8286        | -66.93      | -13.00           | 53.93       | Horizontal   |
| 517.6919        | -64.60      | -13.00           | 51.60       | Horizontal   |
| 1671.3343       | -52.42      | -13.00           | 39.42       | Horizontal   |

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|            |        |        |       |            |
|------------|--------|--------|-------|------------|
| 5867.0956  | -54.59 | -13.00 | 41.59 | Horizontal |
| 17995.4999 | -36.53 | -13.00 | 23.53 | Horizontal |

### 7.3.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 31.2126         | -72.70      | -13.00           | 59.70       | Vertical     |
| 112.7451        | -64.95      | -13.00           | 51.95       | Vertical     |
| 648.7939        | -64.48      | -13.00           | 51.48       | Vertical     |
| 1691.3383       | -50.05      | -13.00           | 37.05       | Vertical     |
| 5048.0683       | -55.13      | -13.00           | 42.13       | Vertical     |
| 17984.9995      | -31.24      | -13.00           | 18.24       | Vertical     |
| 43.5807         | -64.01      | -13.00           | 51.01       | Horizontal   |
| 231.2851        | -68.48      | -13.00           | 55.48       | Horizontal   |
| 634.6312        | -63.75      | -13.00           | 50.75       | Horizontal   |
| 1691.3383       | -54.52      | -13.00           | 41.52       | Horizontal   |
| 2998.7998       | -55.52      | -13.00           | 42.52       | Horizontal   |
| 17994.4998      | -36.55      | -13.00           | 23.55       | Horizontal   |

#### Remark:

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.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.

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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| BAND    | Test Mode | Channel | Voltage       |                  |                |                 |      | Limit (ppm) | Verdict |
|---------|-----------|---------|---------------|------------------|----------------|-----------------|------|-------------|---------|
|         |           |         | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) |      |             |         |
| Band II | TM1       | 9262    | VL            | TN               | -1.66          | -0.000896       | ±2.5 | PASS        |         |
| Band II | TM1       | 9262    | VN            | TN               | -2.27          | -0.001224       | ±2.5 | PASS        |         |
| Band II | TM1       | 9262    | VH            | TN               | -1.73          | -0.000934       | ±2.5 | PASS        |         |
| Band II | TM1       | 9400    | VL            | TN               | -1.49          | -0.000795       | ±2.5 | PASS        |         |
| Band II | TM1       | 9400    | VN            | TN               | -0.90          | -0.000479       | ±2.5 | PASS        |         |
| Band II | TM1       | 9400    | VH            | TN               | -1.41          | -0.000749       | ±2.5 | PASS        |         |
| Band II | TM1       | 9538    | VL            | TN               | -1.47          | -0.000772       | ±2.5 | PASS        |         |
| Band II | TM1       | 9538    | VN            | TN               | 0.01           | 0.000007        | ±2.5 | PASS        |         |
| Band II | TM1       | 9538    | VH            | TN               | 1.15           | 0.000604        | ±2.5 | PASS        |         |
| Band IV | TM1       | 1312    | VL            | TN               | -2.16          | -0.001261       | ±2.5 | PASS        |         |
| Band IV | TM1       | 1312    | VN            | TN               | -1.79          | -0.001044       | ±2.5 | PASS        |         |
| Band IV | TM1       | 1312    | VH            | TN               | -0.49          | -0.000284       | ±2.5 | PASS        |         |
| Band IV | TM1       | 1413    | VL            | TN               | -1.27          | -0.000731       | ±2.5 | PASS        |         |
| Band IV | TM1       | 1413    | VN            | TN               | -0.69          | -0.000400       | ±2.5 | PASS        |         |
| Band IV | TM1       | 1413    | VH            | TN               | -1.37          | -0.000788       | ±2.5 | PASS        |         |
| Band IV | TM1       | 1513    | VL            | TN               | 0.42           | 0.000241        | ±2.5 | PASS        |         |
| Band IV | TM1       | 1513    | VN            | TN               | 0.02           | 0.000012        | ±2.5 | PASS        |         |
| Band IV | TM1       | 1513    | VH            | TN               | -0.34          | -0.000196       | ±2.5 | PASS        |         |
| Band V  | TM1       | 4132    | VL            | TN               | -0.09          | -0.000104       | ±2.5 | PASS        |         |
| Band V  | TM1       | 4132    | VN            | TN               | 0.42           | 0.000511        | ±2.5 | PASS        |         |
| Band V  | TM1       | 4132    | VH            | TN               | 0.35           | 0.000424        | ±2.5 | PASS        |         |
| Band V  | TM1       | 4182    | VL            | TN               | 0.12           | 0.000145        | ±2.5 | PASS        |         |
| Band V  | TM1       | 4182    | VN            | TN               | -0.62          | -0.000744       | ±2.5 | PASS        |         |
| Band V  | TM1       | 4182    | VH            | TN               | -0.93          | -0.001112       | ±2.5 | PASS        |         |
| Band V  | TM1       | 4233    | VL            | TN               | -0.95          | -0.001124       | ±2.5 | PASS        |         |
| Band V  | TM1       | 4233    | VN            | TN               | -0.18          | -0.000211       | ±2.5 | PASS        |         |
| Band V  | TM1       | 4233    | VH            | TN               | -0.64          | -0.000752       | ±2.5 | PASS        |         |
| Band II | TM2       | 9262    | VL            | TN               | -9.28          | -0.005012       | ±2.5 | PASS        |         |
| Band II | TM2       | 9262    | VN            | TN               | -12.57         | -0.006786       | ±2.5 | PASS        |         |
| Band II | TM2       | 9262    | VH            | TN               | -13.00         | -0.007017       | ±2.5 | PASS        |         |
| Band II | TM2       | 9400    | VL            | TN               | -10.56         | -0.005620       | ±2.5 | PASS        |         |

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|         |     |      |    |    |        |           |      |      |
|---------|-----|------|----|----|--------|-----------|------|------|
| Band II | TM2 | 9400 | VN | TN | -8.74  | -0.004648 | ±2.5 | PASS |
| Band II | TM2 | 9400 | VH | TN | -1.11  | -0.000591 | ±2.5 | PASS |
| Band II | TM2 | 9538 | VL | TN | -10.08 | -0.005285 | ±2.5 | PASS |
| Band II | TM2 | 9538 | VN | TN | 14.09  | 0.007387  | ±2.5 | PASS |
| Band II | TM2 | 9538 | VH | TN | -5.05  | -0.002646 | ±2.5 | PASS |
| Band IV | TM2 | 1312 | VL | TN | 1.91   | 0.001030  | ±2.5 | PASS |
| Band IV | TM2 | 1312 | VN | TN | 12.72  | 0.006867  | ±2.5 | PASS |
| Band IV | TM2 | 1312 | VH | TN | -12.63 | -0.006819 | ±2.5 | PASS |
| Band IV | TM2 | 1413 | VL | TN | -5.92  | -0.003148 | ±2.5 | PASS |
| Band IV | TM2 | 1413 | VN | TN | -5.50  | -0.002926 | ±2.5 | PASS |
| Band IV | TM2 | 1413 | VH | TN | -12.31 | -0.006547 | ±2.5 | PASS |
| Band IV | TM2 | 1513 | VL | TN | 12.95  | 0.006789  | ±2.5 | PASS |
| Band IV | TM2 | 1513 | VN | TN | 3.18   | 0.001664  | ±2.5 | PASS |
| Band IV | TM2 | 1513 | VH | TN | 14.85  | 0.007782  | ±2.5 | PASS |
| Band V  | TM2 | 4132 | VL | TN | 7.05   | 0.008530  | ±2.5 | PASS |
| Band V  | TM2 | 4132 | VN | TN | -5.74  | -0.006951 | ±2.5 | PASS |
| Band V  | TM2 | 4132 | VH | TN | -7.63  | -0.009236 | ±2.5 | PASS |
| Band V  | TM2 | 4182 | VL | TN | -12.70 | -0.015178 | ±2.5 | PASS |
| Band V  | TM2 | 4182 | VN | TN | 7.25   | 0.008671  | ±2.5 | PASS |
| Band V  | TM2 | 4182 | VH | TN | 12.99  | 0.015533  | ±2.5 | PASS |
| Band V  | TM2 | 4233 | VL | TN | 4.18   | 0.004937  | ±2.5 | PASS |
| Band V  | TM2 | 4233 | VN | TN | 9.54   | 0.011263  | ±2.5 | PASS |
| Band V  | TM2 | 4233 | VH | TN | 0.94   | 0.001105  | ±2.5 | PASS |

## 8.2. Frequency Vs Temperature

| Temperature |           |         |               |                  |                |                 |             |         |
|-------------|-----------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND        | Test Mode | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band II     | TM1       | 9262    | VN            | -30              | -2.64          | -0.001425       | ±2.5        | PASS    |
| Band II     | TM1       | 9262    | VN            | -20              | -1.90          | -0.001027       | ±2.5        | PASS    |
| Band II     | TM1       | 9262    | VN            | -10              | -1.54          | -0.000834       | ±2.5        | PASS    |
| Band II     | TM1       | 9262    | VN            | 0                | -0.93          | -0.000502       | ±2.5        | PASS    |
| Band II     | TM1       | 9262    | VN            | 10               | -2.27          | -0.001224       | ±2.5        | PASS    |
| Band II     | TM1       | 9262    | VN            | 20               | -2.16          | -0.001166       | ±2.5        | PASS    |
| Band II     | TM1       | 9262    | VN            | 30               | -2.63          | -0.001421       | ±2.5        | PASS    |
| Band II     | TM1       | 9262    | VN            | 40               | -1.58          | -0.000853       | ±2.5        | PASS    |
| Band II     | TM1       | 9262    | VN            | 50               | -1.62          | -0.000873       | ±2.5        | PASS    |
| Band II     | TM1       | 9400    | VN            | -30              | -1.26          | -0.000670       | ±2.5        | PASS    |
| Band II     | TM1       | 9400    | VN            | -20              | -0.65          | -0.000346       | ±2.5        | PASS    |

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|         |     |      |    |     |       |           |      |      |
|---------|-----|------|----|-----|-------|-----------|------|------|
| Band II | TM1 | 9400 | VN | -10 | -1.05 | -0.000559 | ±2.5 | PASS |
| Band II | TM1 | 9400 | VN | 0   | -1.33 | -0.000708 | ±2.5 | PASS |
| Band II | TM1 | 9400 | VN | 10  | -0.46 | -0.000243 | ±2.5 | PASS |
| Band II | TM1 | 9400 | VN | 20  | -1.29 | -0.000689 | ±2.5 | PASS |
| Band II | TM1 | 9400 | VN | 30  | -0.26 | -0.000137 | ±2.5 | PASS |
| Band II | TM1 | 9400 | VN | 40  | -0.52 | -0.000278 | ±2.5 | PASS |
| Band II | TM1 | 9400 | VN | 50  | -0.39 | -0.000205 | ±2.5 | PASS |
| Band II | TM1 | 9538 | VN | -30 | -0.62 | -0.000326 | ±2.5 | PASS |
| Band II | TM1 | 9538 | VN | -20 | 0.13  | 0.000067  | ±2.5 | PASS |
| Band II | TM1 | 9538 | VN | -10 | -0.13 | -0.000067 | ±2.5 | PASS |
| Band II | TM1 | 9538 | VN | 0   | 0.25  | 0.000131  | ±2.5 | PASS |
| Band II | TM1 | 9538 | VN | 10  | 0.44  | 0.000229  | ±2.5 | PASS |
| Band II | TM1 | 9538 | VN | 20  | -0.69 | -0.000360 | ±2.5 | PASS |
| Band II | TM1 | 9538 | VN | 30  | -0.69 | -0.000364 | ±2.5 | PASS |
| Band II | TM1 | 9538 | VN | 40  | -0.41 | -0.000214 | ±2.5 | PASS |
| Band II | TM1 | 9538 | VN | 50  | -0.23 | -0.000120 | ±2.5 | PASS |
| Band IV | TM1 | 1312 | VN | -30 | -1.88 | -0.001099 | ±2.5 | PASS |
| Band IV | TM1 | 1312 | VN | -20 | -2.37 | -0.001383 | ±2.5 | PASS |
| Band IV | TM1 | 1312 | VN | -10 | -2.17 | -0.001266 | ±2.5 | PASS |
| Band IV | TM1 | 1312 | VN | 0   | -1.51 | -0.000881 | ±2.5 | PASS |
| Band IV | TM1 | 1312 | VN | 10  | -1.86 | -0.001086 | ±2.5 | PASS |
| Band IV | TM1 | 1312 | VN | 20  | -2.02 | -0.001182 | ±2.5 | PASS |
| Band IV | TM1 | 1312 | VN | 30  | -1.68 | -0.000982 | ±2.5 | PASS |
| Band IV | TM1 | 1312 | VN | 40  | -1.49 | -0.000873 | ±2.5 | PASS |
| Band IV | TM1 | 1312 | VN | 50  | -1.02 | -0.000597 | ±2.5 | PASS |
| Band IV | TM1 | 1413 | VN | -30 | -0.12 | -0.000070 | ±2.5 | PASS |
| Band IV | TM1 | 1413 | VN | -20 | 0.11  | 0.000066  | ±2.5 | PASS |
| Band IV | TM1 | 1413 | VN | -10 | -1.12 | -0.000648 | ±2.5 | PASS |
| Band IV | TM1 | 1413 | VN | 0   | 1.49  | 0.000859  | ±2.5 | PASS |
| Band IV | TM1 | 1413 | VN | 10  | 1.22  | 0.000706  | ±2.5 | PASS |
| Band IV | TM1 | 1413 | VN | 20  | 0.34  | 0.000194  | ±2.5 | PASS |
| Band IV | TM1 | 1413 | VN | 30  | 0.94  | 0.000541  | ±2.5 | PASS |
| Band IV | TM1 | 1413 | VN | 40  | 0.58  | 0.000334  | ±2.5 | PASS |
| Band IV | TM1 | 1413 | VN | 50  | 2.52  | 0.001453  | ±2.5 | PASS |
| Band IV | TM1 | 1513 | VN | -30 | 0.04  | 0.000020  | ±2.5 | PASS |
| Band IV | TM1 | 1513 | VN | -20 | -0.81 | -0.000461 | ±2.5 | PASS |
| Band IV | TM1 | 1513 | VN | -10 | -0.33 | -0.000188 | ±2.5 | PASS |
| Band IV | TM1 | 1513 | VN | 0   | 0.31  | 0.000180  | ±2.5 | PASS |

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|         |     |      |    |     |        |           |      |      |
|---------|-----|------|----|-----|--------|-----------|------|------|
| Band IV | TM1 | 1513 | VN | 10  | -0.11  | -0.000065 | ±2.5 | PASS |
| Band IV | TM1 | 1513 | VN | 20  | -0.04  | -0.000020 | ±2.5 | PASS |
| Band IV | TM1 | 1513 | VN | 30  | -0.95  | -0.000543 | ±2.5 | PASS |
| Band IV | TM1 | 1513 | VN | 40  | 0.02   | 0.000012  | ±2.5 | PASS |
| Band IV | TM1 | 1513 | VN | 50  | 0.26   | 0.000151  | ±2.5 | PASS |
| Band V  | TM1 | 4132 | VN | -30 | -0.34  | -0.000407 | ±2.5 | PASS |
| Band V  | TM1 | 4132 | VN | -20 | -0.02  | -0.000026 | ±2.5 | PASS |
| Band V  | TM1 | 4132 | VN | -10 | 0.05   | 0.000061  | ±2.5 | PASS |
| Band V  | TM1 | 4132 | VN | 0   | 0.26   | 0.000312  | ±2.5 | PASS |
| Band V  | TM1 | 4132 | VN | 10  | 0.21   | 0.000251  | ±2.5 | PASS |
| Band V  | TM1 | 4132 | VN | 20  | -0.01  | -0.000009 | ±2.5 | PASS |
| Band V  | TM1 | 4132 | VN | 30  | -0.11  | -0.000138 | ±2.5 | PASS |
| Band V  | TM1 | 4132 | VN | 40  | -0.29  | -0.000346 | ±2.5 | PASS |
| Band V  | TM1 | 4132 | VN | 50  | -0.37  | -0.000450 | ±2.5 | PASS |
| Band V  | TM1 | 4182 | VN | -30 | 0.11   | 0.000128  | ±2.5 | PASS |
| Band V  | TM1 | 4182 | VN | -20 | -0.11  | -0.000137 | ±2.5 | PASS |
| Band V  | TM1 | 4182 | VN | -10 | -0.28  | -0.000334 | ±2.5 | PASS |
| Band V  | TM1 | 4182 | VN | 0   | -0.82  | -0.000975 | ±2.5 | PASS |
| Band V  | TM1 | 4182 | VN | 10  | -0.28  | -0.000334 | ±2.5 | PASS |
| Band V  | TM1 | 4182 | VN | 20  | -0.14  | -0.000171 | ±2.5 | PASS |
| Band V  | TM1 | 4182 | VN | 30  | -0.41  | -0.000487 | ±2.5 | PASS |
| Band V  | TM1 | 4182 | VN | 40  | 0.19   | 0.000231  | ±2.5 | PASS |
| Band V  | TM1 | 4182 | VN | 50  | -0.49  | -0.000582 | ±2.5 | PASS |
| Band V  | TM1 | 4233 | VN | -30 | -0.59  | -0.000693 | ±2.5 | PASS |
| Band V  | TM1 | 4233 | VN | -20 | -0.11  | -0.000135 | ±2.5 | PASS |
| Band V  | TM1 | 4233 | VN | -10 | -0.07  | -0.000084 | ±2.5 | PASS |
| Band V  | TM1 | 4233 | VN | 0   | -0.03  | -0.000034 | ±2.5 | PASS |
| Band V  | TM1 | 4233 | VN | 10  | -0.45  | -0.000532 | ±2.5 | PASS |
| Band V  | TM1 | 4233 | VN | 20  | -0.06  | -0.000068 | ±2.5 | PASS |
| Band V  | TM1 | 4233 | VN | 30  | 0.09   | 0.000101  | ±2.5 | PASS |
| Band V  | TM1 | 4233 | VN | 40  | -0.35  | -0.000414 | ±2.5 | PASS |
| Band V  | TM1 | 4233 | VN | 50  | -0.29  | -0.000338 | ±2.5 | PASS |
| Band II | TM2 | 9262 | VN | -30 | -11.21 | -0.006050 | ±2.5 | PASS |
| Band II | TM2 | 9262 | VN | -20 | -14.69 | -0.007932 | ±2.5 | PASS |
| Band II | TM2 | 9262 | VN | -10 | 3.01   | 0.001624  | ±2.5 | PASS |
| Band II | TM2 | 9262 | VN | 0   | -0.69  | -0.000372 | ±2.5 | PASS |
| Band II | TM2 | 9262 | VN | 10  | 12.67  | 0.006842  | ±2.5 | PASS |
| Band II | TM2 | 9262 | VN | 20  | 9.97   | 0.005381  | ±2.5 | PASS |

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|         |     |      |    |     |        |           |      |      |
|---------|-----|------|----|-----|--------|-----------|------|------|
| Band II | TM2 | 9262 | VN | 30  | 8.59   | 0.004637  | ±2.5 | PASS |
| Band II | TM2 | 9262 | VN | 40  | -4.03  | -0.002173 | ±2.5 | PASS |
| Band II | TM2 | 9262 | VN | 50  | -6.70  | -0.003618 | ±2.5 | PASS |
| Band II | TM2 | 9400 | VN | -30 | -6.64  | -0.003534 | ±2.5 | PASS |
| Band II | TM2 | 9400 | VN | -20 | -7.39  | -0.003931 | ±2.5 | PASS |
| Band II | TM2 | 9400 | VN | -10 | 8.51   | 0.004524  | ±2.5 | PASS |
| Band II | TM2 | 9400 | VN | 0   | 3.77   | 0.002007  | ±2.5 | PASS |
| Band II | TM2 | 9400 | VN | 10  | -4.67  | -0.002484 | ±2.5 | PASS |
| Band II | TM2 | 9400 | VN | 20  | -8.74  | -0.004648 | ±2.5 | PASS |
| Band II | TM2 | 9400 | VN | 30  | 9.31   | 0.004951  | ±2.5 | PASS |
| Band II | TM2 | 9400 | VN | 40  | -5.91  | -0.003145 | ±2.5 | PASS |
| Band II | TM2 | 9400 | VN | 50  | -14.58 | -0.007758 | ±2.5 | PASS |
| Band II | TM2 | 9538 | VN | -30 | -6.75  | -0.003539 | ±2.5 | PASS |
| Band II | TM2 | 9538 | VN | -20 | -13.95 | -0.007315 | ±2.5 | PASS |
| Band II | TM2 | 9538 | VN | -10 | -14.26 | -0.007478 | ±2.5 | PASS |
| Band II | TM2 | 9538 | VN | 0   | 8.25   | 0.004327  | ±2.5 | PASS |
| Band II | TM2 | 9538 | VN | 10  | -14.23 | -0.007458 | ±2.5 | PASS |
| Band II | TM2 | 9538 | VN | 20  | -7.53  | -0.003948 | ±2.5 | PASS |
| Band II | TM2 | 9538 | VN | 30  | -6.27  | -0.003289 | ±2.5 | PASS |
| Band II | TM2 | 9538 | VN | 40  | -10.06 | -0.005273 | ±2.5 | PASS |
| Band II | TM2 | 9538 | VN | 50  | -0.55  | -0.000288 | ±2.5 | PASS |
| Band IV | TM2 | 1312 | VN | -30 | 6.38   | 0.007718  | ±2.5 | PASS |
| Band IV | TM2 | 1312 | VN | -20 | 3.94   | 0.004771  | ±2.5 | PASS |
| Band IV | TM2 | 1312 | VN | -10 | -2.96  | -0.003582 | ±2.5 | PASS |
| Band IV | TM2 | 1312 | VN | 0   | 5.70   | 0.006896  | ±2.5 | PASS |
| Band IV | TM2 | 1312 | VN | 10  | -1.30  | -0.001577 | ±2.5 | PASS |
| Band IV | TM2 | 1312 | VN | 20  | 6.79   | 0.008220  | ±2.5 | PASS |
| Band IV | TM2 | 1312 | VN | 30  | 11.39  | 0.013784  | ±2.5 | PASS |
| Band IV | TM2 | 1312 | VN | 40  | 0.11   | 0.000129  | ±2.5 | PASS |
| Band IV | TM2 | 1312 | VN | 50  | 6.78   | 0.008207  | ±2.5 | PASS |
| Band IV | TM2 | 1413 | VN | -30 | -2.78  | -0.003324 | ±2.5 | PASS |
| Band IV | TM2 | 1413 | VN | -20 | 0.27   | 0.000322  | ±2.5 | PASS |
| Band IV | TM2 | 1413 | VN | -10 | -7.47  | -0.008928 | ±2.5 | PASS |
| Band IV | TM2 | 1413 | VN | 0   | 7.49   | 0.008960  | ±2.5 | PASS |
| Band IV | TM2 | 1413 | VN | 10  | -10.94 | -0.013077 | ±2.5 | PASS |
| Band IV | TM2 | 1413 | VN | 20  | 3.56   | 0.004259  | ±2.5 | PASS |
| Band IV | TM2 | 1413 | VN | 30  | 3.08   | 0.003679  | ±2.5 | PASS |
| Band IV | TM2 | 1413 | VN | 40  | 9.84   | 0.011764  | ±2.5 | PASS |

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|         |     |      |    |     |        |           |      |      |
|---------|-----|------|----|-----|--------|-----------|------|------|
| Band IV | TM2 | 1413 | VN | 50  | -5.99  | -0.007160 | ±2.5 | PASS |
| Band IV | TM2 | 1513 | VN | -30 | -3.29  | -0.003883 | ±2.5 | PASS |
| Band IV | TM2 | 1513 | VN | -20 | -6.58  | -0.007770 | ±2.5 | PASS |
| Band IV | TM2 | 1513 | VN | -10 | 11.49  | 0.013576  | ±2.5 | PASS |
| Band IV | TM2 | 1513 | VN | 0   | 8.77   | 0.010365  | ±2.5 | PASS |
| Band IV | TM2 | 1513 | VN | 10  | 6.75   | 0.007969  | ±2.5 | PASS |
| Band IV | TM2 | 1513 | VN | 20  | 12.57  | 0.014844  | ±2.5 | PASS |
| Band IV | TM2 | 1513 | VN | 30  | -1.75  | -0.002064 | ±2.5 | PASS |
| Band IV | TM2 | 1513 | VN | 40  | 2.17   | 0.002566  | ±2.5 | PASS |
| Band IV | TM2 | 1513 | VN | 50  | 6.05   | 0.007141  | ±2.5 | PASS |
| Band V  | TM2 | 4132 | VN | -30 | 12.89  | 0.015597  | ±2.5 | PASS |
| Band V  | TM2 | 4132 | VN | -20 | 1.51   | 0.001829  | ±2.5 | PASS |
| Band V  | TM2 | 4132 | VN | -10 | 2.93   | 0.003547  | ±2.5 | PASS |
| Band V  | TM2 | 4132 | VN | 0   | -6.88  | -0.008330 | ±2.5 | PASS |
| Band V  | TM2 | 4132 | VN | 10  | -12.43 | -0.015044 | ±2.5 | PASS |
| Band V  | TM2 | 4132 | VN | 20  | -3.58  | -0.004327 | ±2.5 | PASS |
| Band V  | TM2 | 4132 | VN | 30  | -8.81  | -0.010657 | ±2.5 | PASS |
| Band V  | TM2 | 4132 | VN | 40  | 13.87  | 0.016783  | ±2.5 | PASS |
| Band V  | TM2 | 4132 | VN | 50  | 2.58   | 0.003122  | ±2.5 | PASS |
| Band V  | TM2 | 4182 | VN | -30 | -2.57  | -0.003075 | ±2.5 | PASS |
| Band V  | TM2 | 4182 | VN | -20 | -7.61  | -0.009101 | ±2.5 | PASS |
| Band V  | TM2 | 4182 | VN | -10 | -4.88  | -0.005829 | ±2.5 | PASS |
| Band V  | TM2 | 4182 | VN | 0   | 10.62  | 0.012692  | ±2.5 | PASS |
| Band V  | TM2 | 4182 | VN | 10  | -4.07  | -0.004861 | ±2.5 | PASS |
| Band V  | TM2 | 4182 | VN | 20  | -2.87  | -0.003431 | ±2.5 | PASS |
| Band V  | TM2 | 4182 | VN | 30  | 2.47   | 0.002959  | ±2.5 | PASS |
| Band V  | TM2 | 4182 | VN | 40  | -12.64 | -0.015107 | ±2.5 | PASS |
| Band V  | TM2 | 4182 | VN | 50  | -8.54  | -0.010209 | ±2.5 | PASS |
| Band V  | TM2 | 4233 | VN | -30 | -5.10  | -0.006021 | ±2.5 | PASS |
| Band V  | TM2 | 4233 | VN | -20 | -10.07 | -0.011891 | ±2.5 | PASS |
| Band V  | TM2 | 4233 | VN | -10 | 9.95   | 0.011748  | ±2.5 | PASS |
| Band V  | TM2 | 4233 | VN | 0   | 13.62  | 0.016093  | ±2.5 | PASS |
| Band V  | TM2 | 4233 | VN | 10  | -2.93  | -0.003463 | ±2.5 | PASS |
| Band V  | TM2 | 4233 | VN | 20  | -13.58 | -0.016044 | ±2.5 | PASS |
| Band V  | TM2 | 4233 | VN | 30  | -4.04  | -0.004773 | ±2.5 | PASS |
| Band V  | TM2 | 4233 | VN | 40  | -10.62 | -0.012540 | ±2.5 | PASS |
| Band V  | TM2 | 4233 | VN | 50  | 1.73   | 0.002047  | ±2.5 | PASS |

The End

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