



# Appendix B

## WCDMA Band II & IV & 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                 | 20.88      | 33.00      | PASS    |
| Band II | 9400    | 23.14                 | 20.94      | 33.00      | PASS    |
| Band II | 9538    | 23.06                 | 20.86      | 33.00      | PASS    |
| Band IV | 1312    | 23.11                 | 20.81      | 30.00      | PASS    |
| Band IV | 1413    | 23.18                 | 20.88      | 30.00      | PASS    |
| Band IV | 1513    | 23.09                 | 20.79      | 30.00      | PASS    |

| Band   | Channel | Conducted Power (dBm) | ERP (dBm) | Limit(dBm) | Verdict |
|--------|---------|-----------------------|-----------|------------|---------|
| Band V | 4132    | 22.97                 | 15.92     | 38.45      | PASS    |
| Band V | 4182    | 23.05                 | 16.00     | 38.45      | PASS    |
| Band V | 4233    | 22.91                 | 15.86     | 38.45      | PASS    |

Remark:

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

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

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



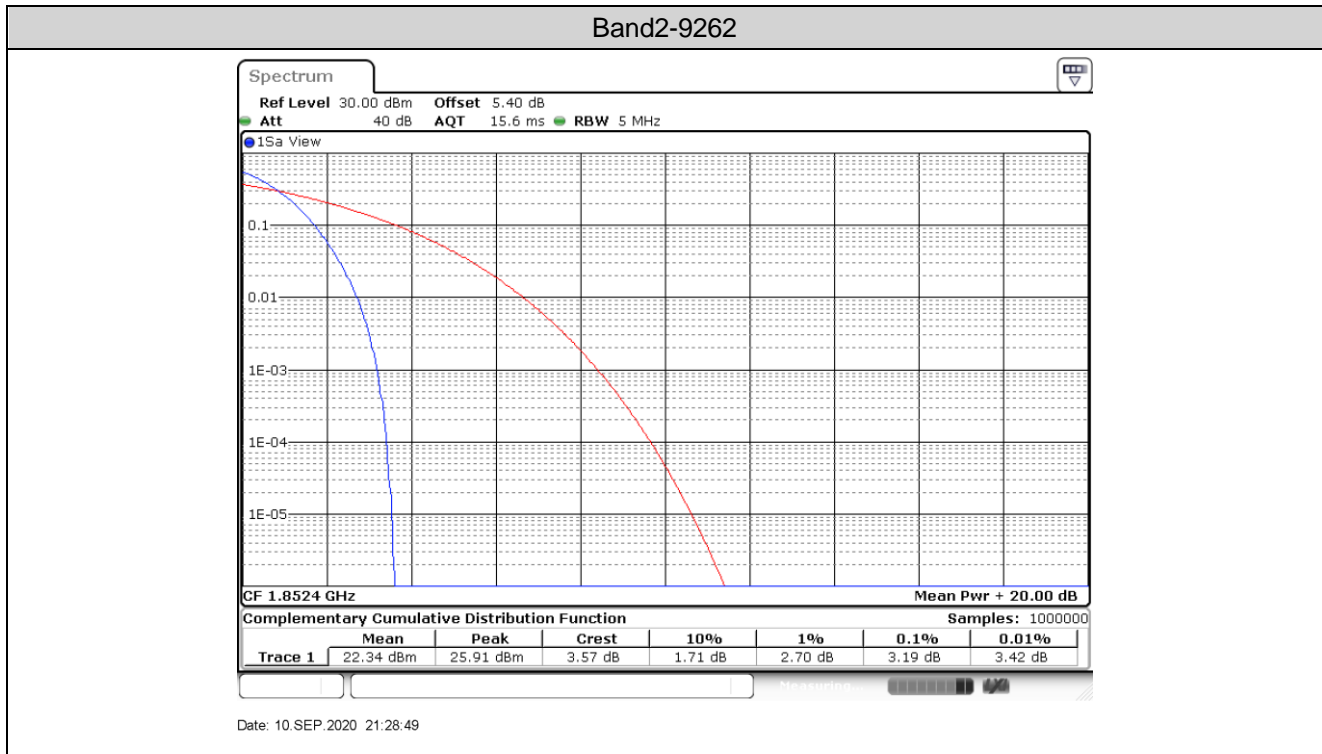
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

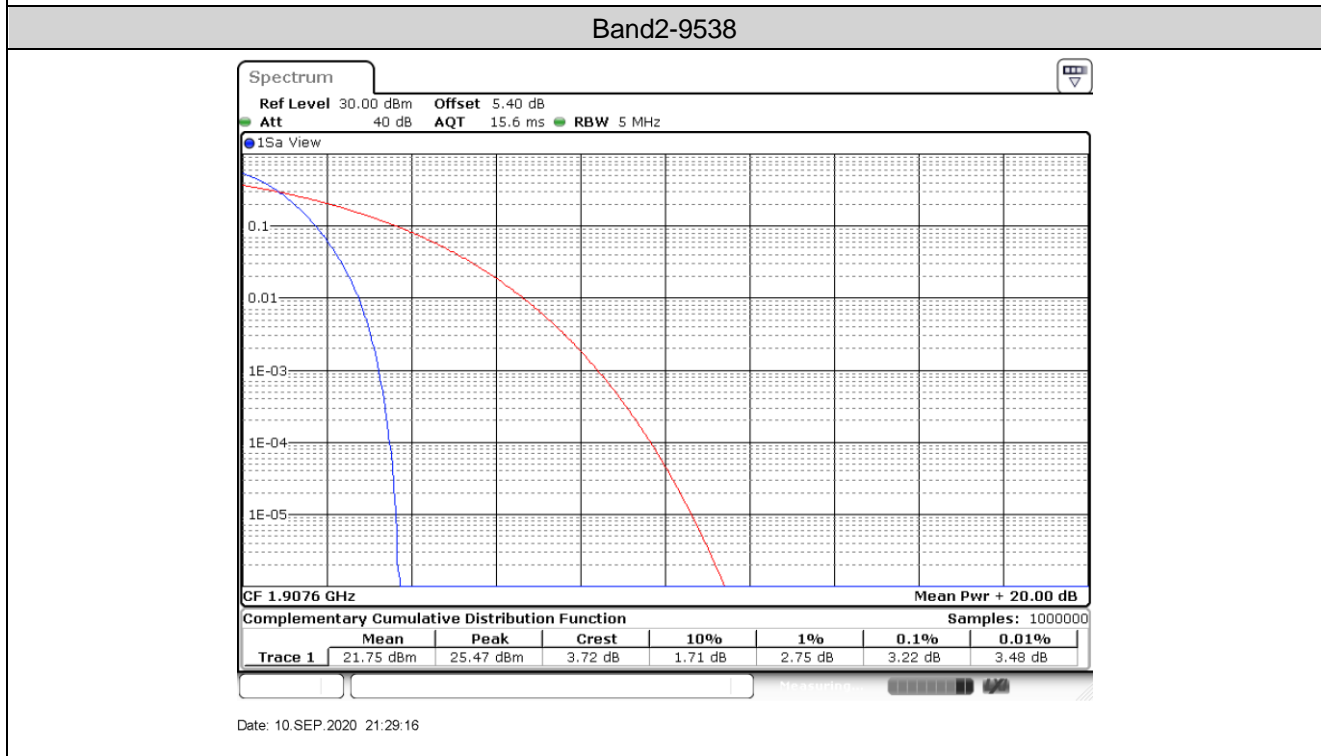
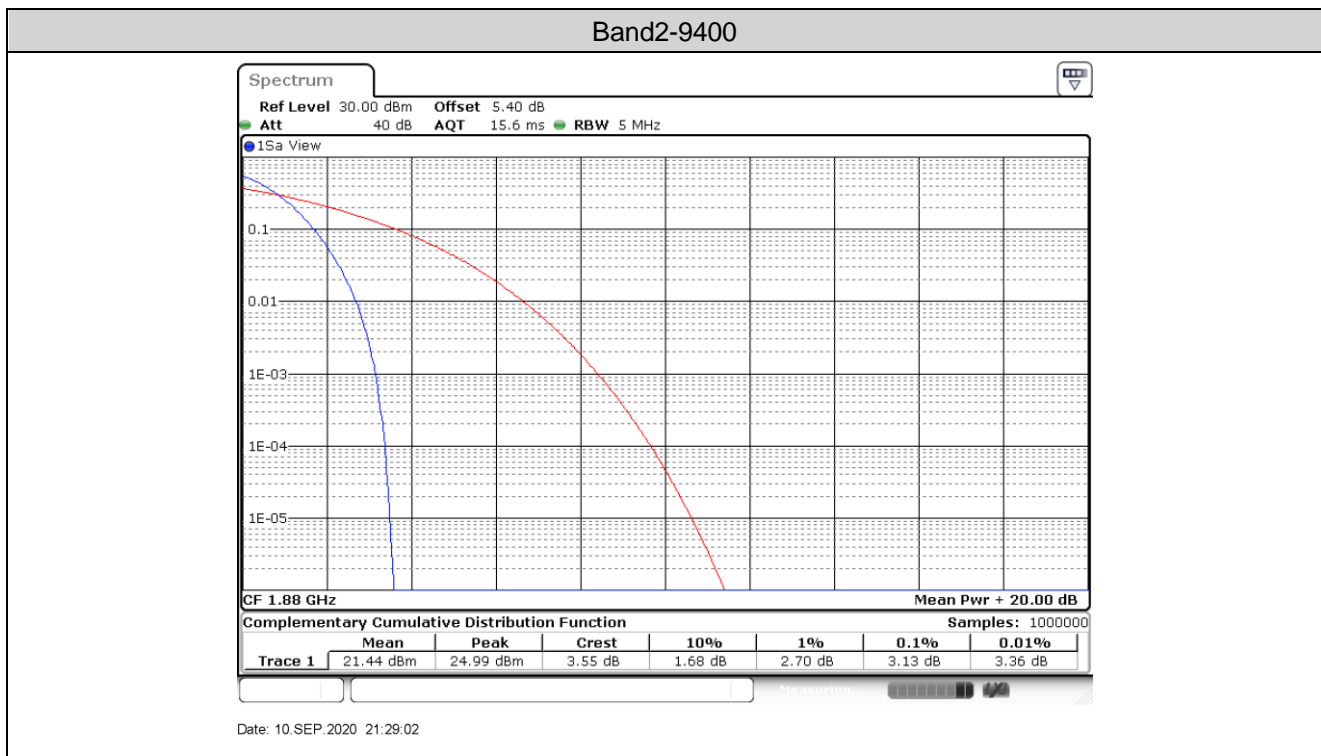
| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dBm) | Verdict |
|-------|---------|---------------------------|------------|---------|
| Band2 | 9262    | 3.19                      | 13         | PASS    |
| Band2 | 9400    | 3.13                      | 13         | PASS    |
| Band2 | 9538    | 3.22                      | 13         | PASS    |
| Band4 | 1312    | 3.16                      | 13         | PASS    |
| Band4 | 1413    | 3.16                      | 13         | PASS    |
| Band4 | 1513    | 3.22                      | 13         | PASS    |
| Band5 | 4132    | 3.1                       | 13         | PASS    |
| Band5 | 4182    | 3.04                      | 13         | PASS    |
| Band5 | 4233    | 3.01                      | 13         | PASS    |

### 2.2. Test Plots



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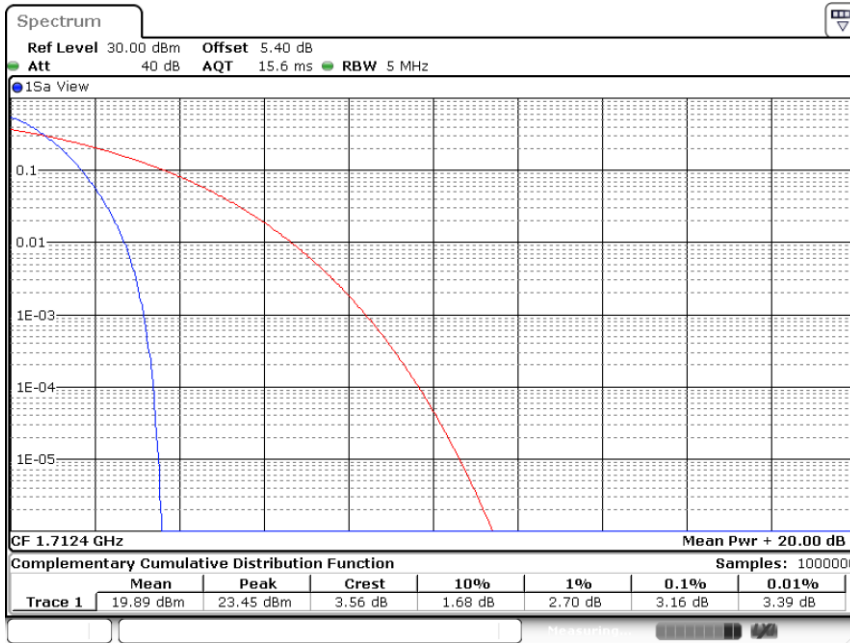
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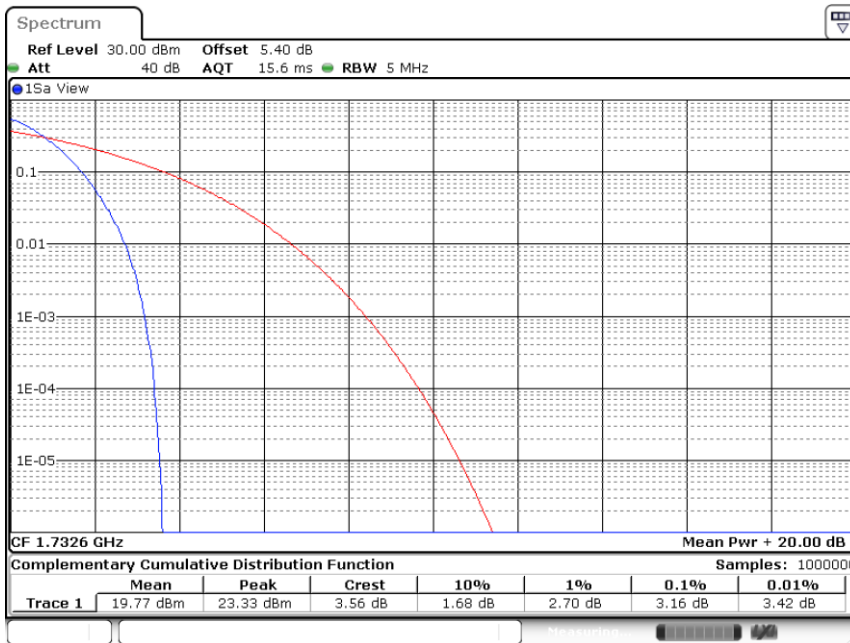
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**Band4-1312**



Date: 11.SEP.2020 09:17:42

**Band4-1413**

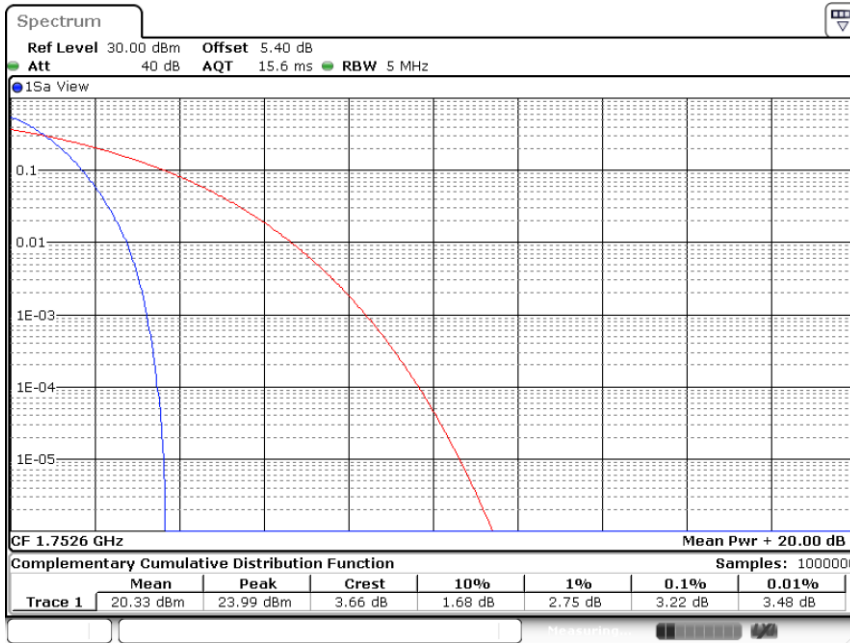


Date: 11.SEP.2020 09:17:55



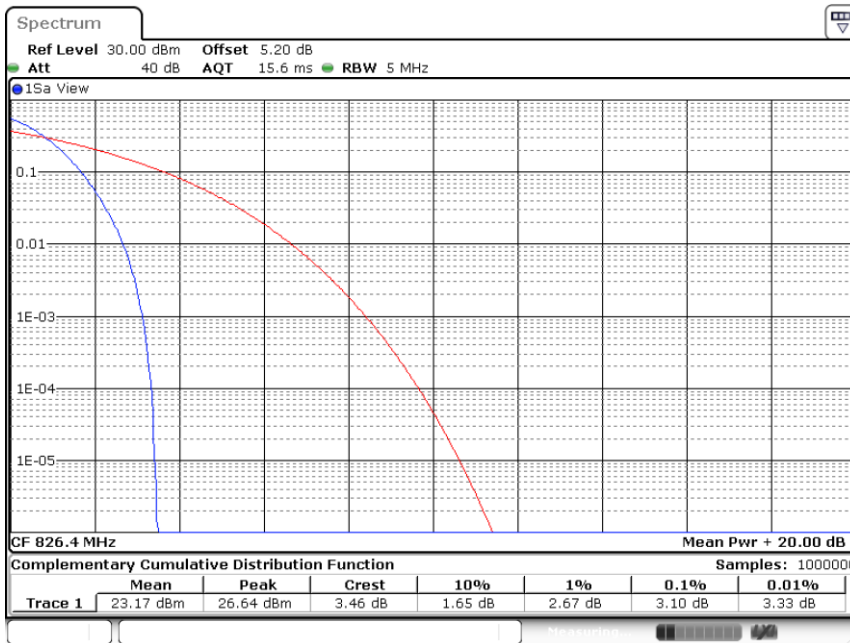
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**Band4-1513**



Date: 11.SEP.2020 09:18:09

**Band5-4132**

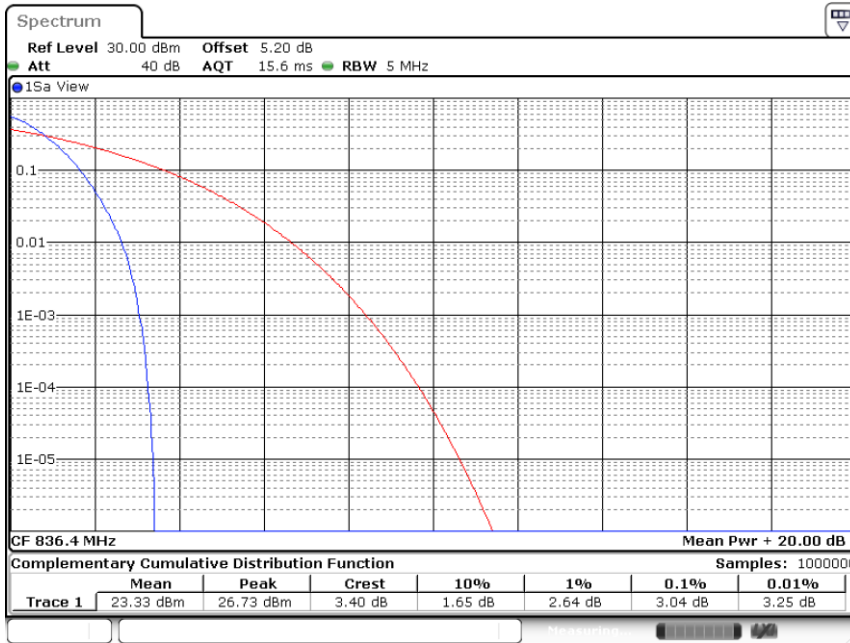


Date: 11.SEP.2020 09:36:44



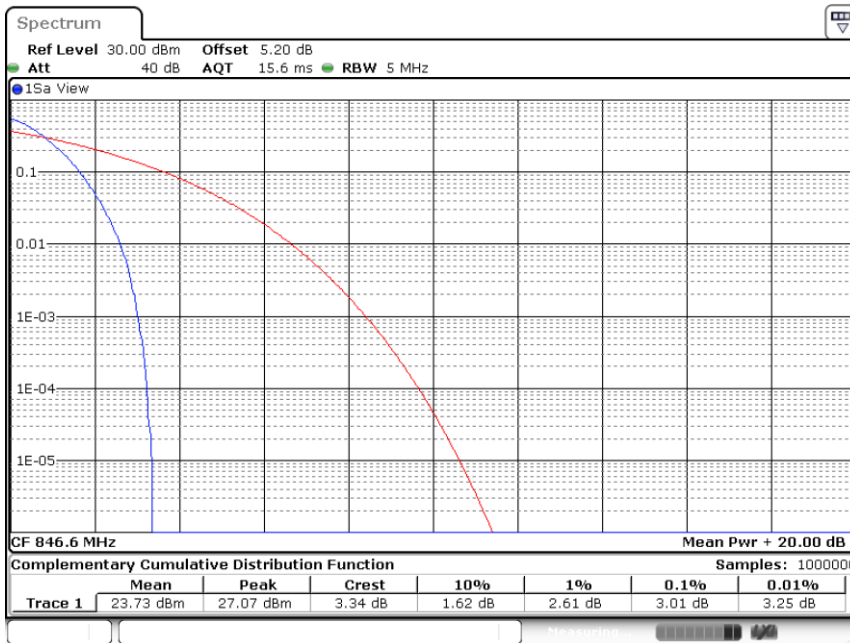
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**Band5-4182**



Date: 11.SEP.2020 09:36:57

**Band5-4233**



Date: 11.SEP.2020 09:37:10



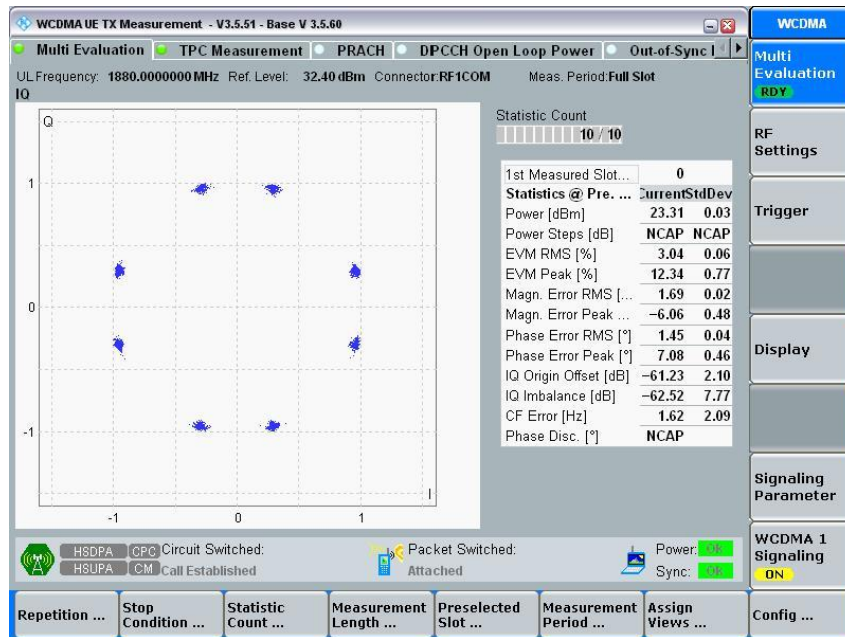
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### 3. Modulation Characteristics

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

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

##### 3.1.1.1. Test Channel = MCH



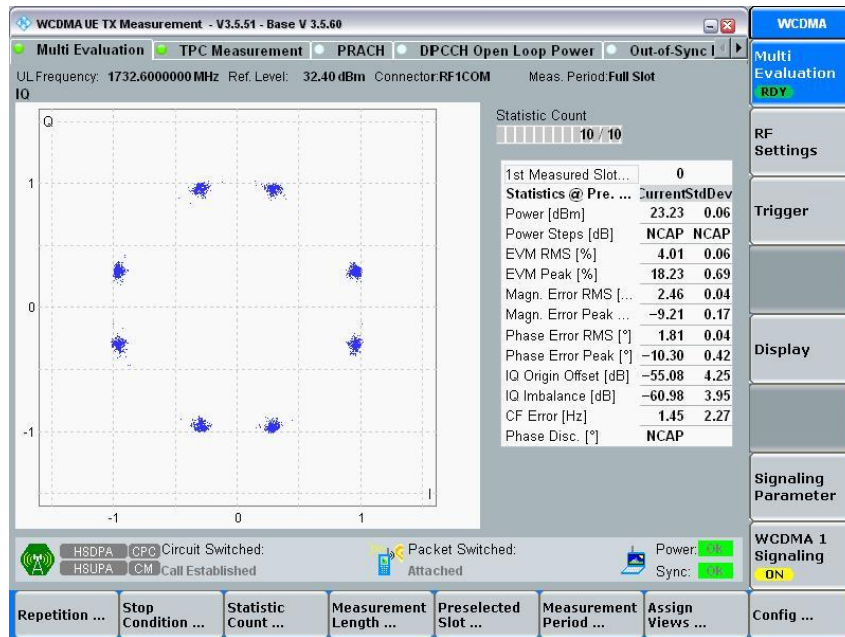
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### 3.2. Test Band = WCDMA Band IV

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

##### 3.2.1.1. Test Channel = MCH

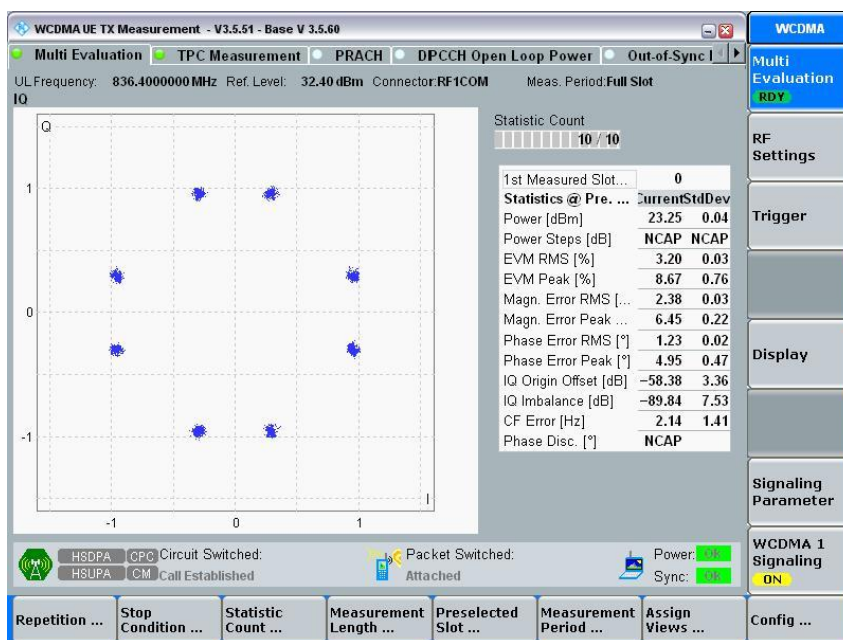


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### 3.3. Test Band = WCDMA Band V

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

##### 3.3.1.1. Test Channel = MCH



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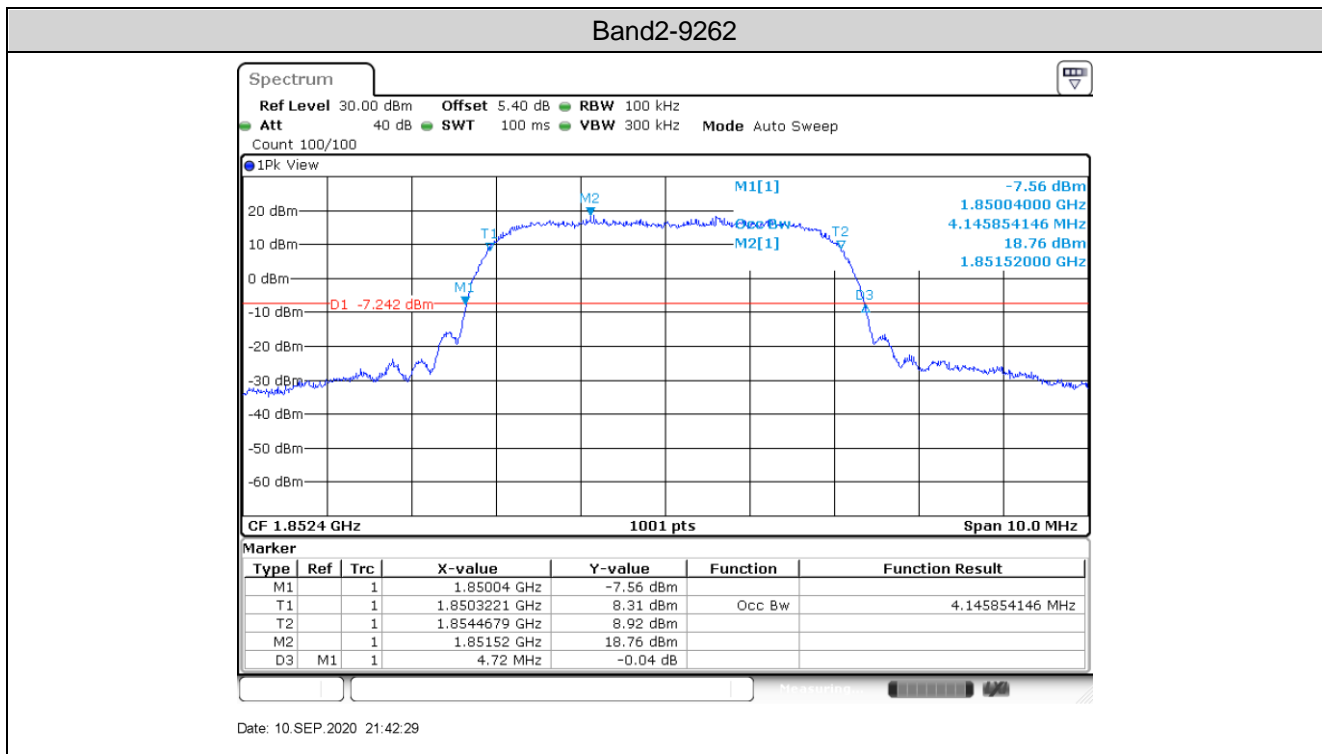
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

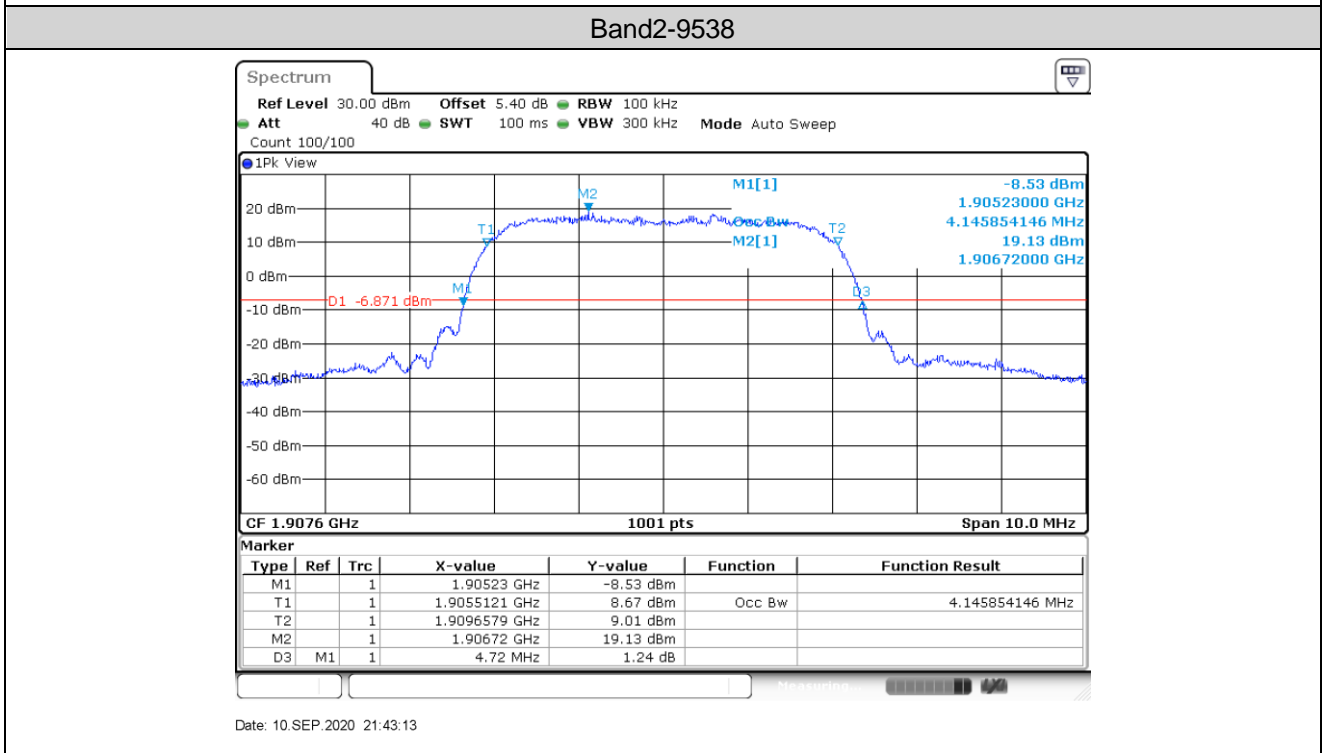
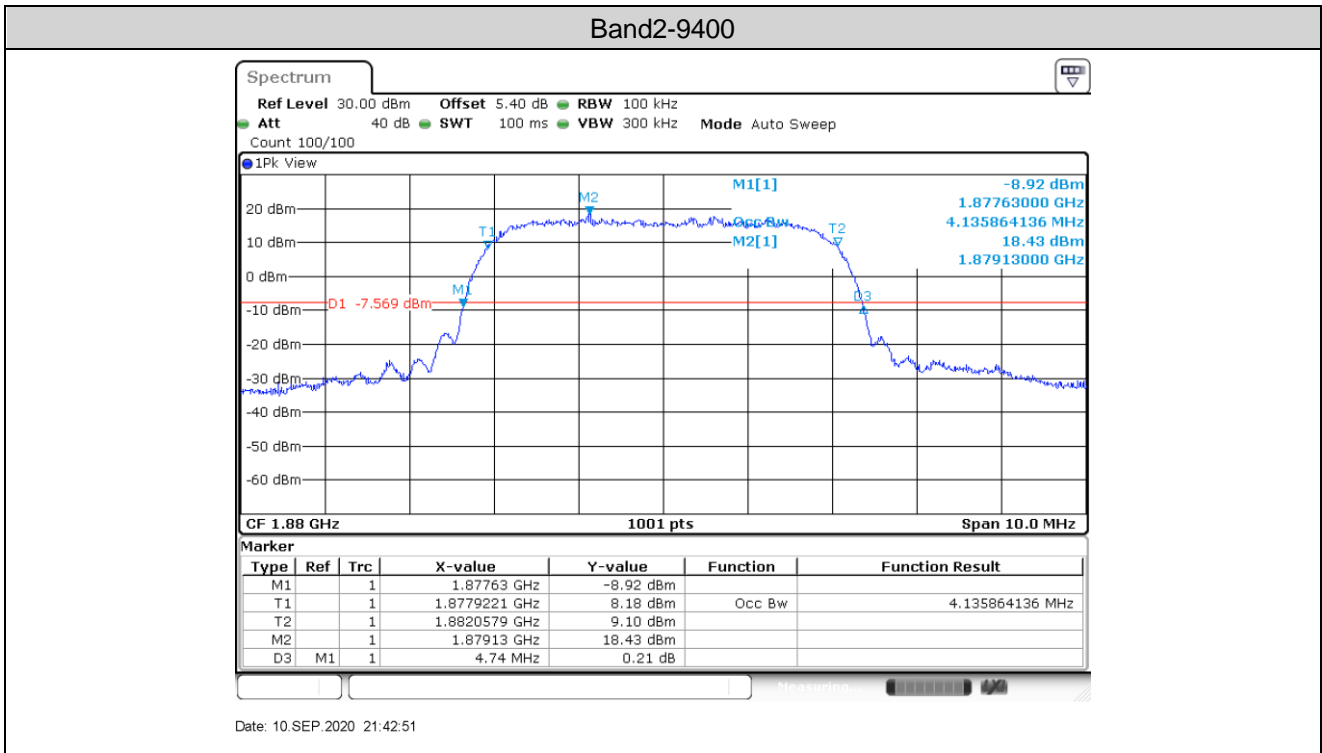
| Band  | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-------|---------|--------------------------|----------------------|------------|---------|
| Band2 | 9262    | 4.146                    | 4.720                | ---        | PASS    |
| Band2 | 9400    | 4.136                    | 4.740                | ---        | PASS    |
| Band2 | 9538    | 4.146                    | 4.720                | ---        | PASS    |
| Band4 | 1312    | 4.126                    | 4.710                | ---        | PASS    |
| Band4 | 1413    | 4.116                    | 4.710                | ---        | PASS    |
| Band4 | 1513    | 4.126                    | 4.720                | ---        | PASS    |
| Band5 | 4132    | 4.126                    | 4.720                | ---        | PASS    |
| Band5 | 4182    | 4.126                    | 4.720                | ---        | PASS    |
| Band5 | 4233    | 4.136                    | 4.730                | ---        | PASS    |

### 4.2. Test Plots



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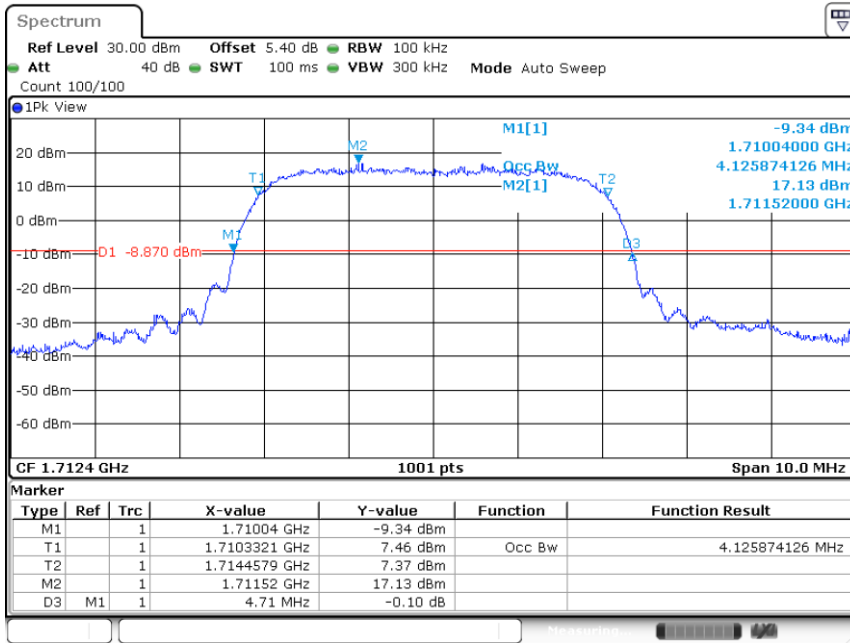
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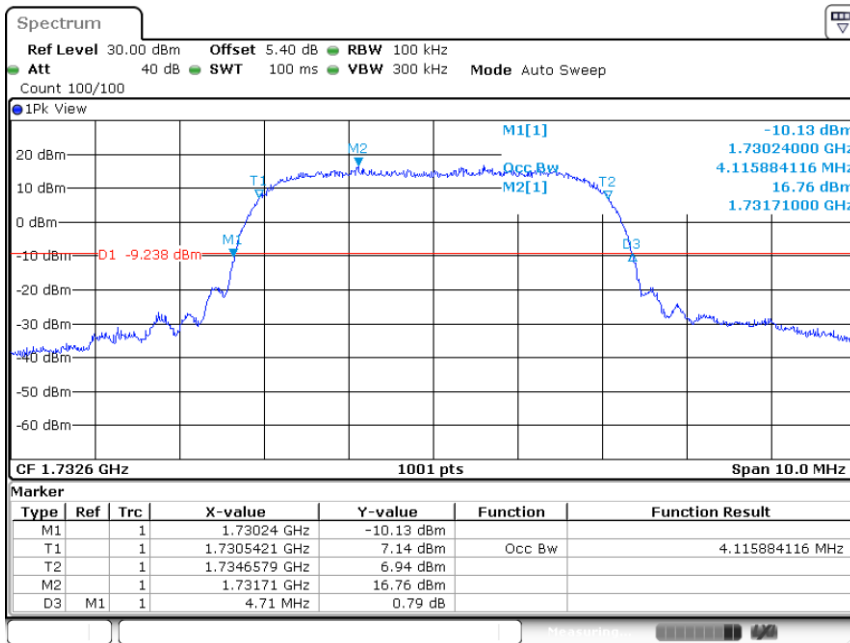
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**Band4-1312**



Date: 11.SEP.2020 09:31:26

**Band4-1413**

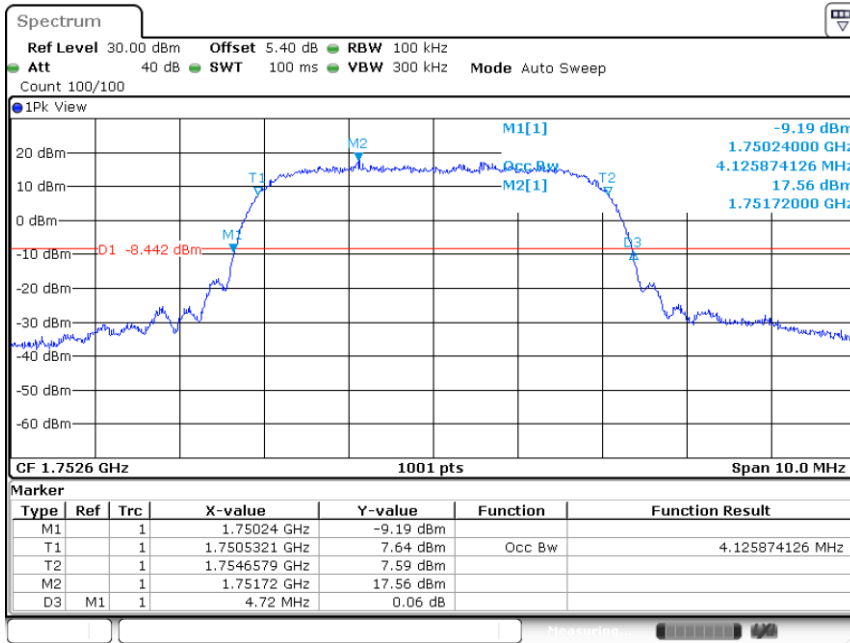


Date: 11.SEP.2020 09:31:48



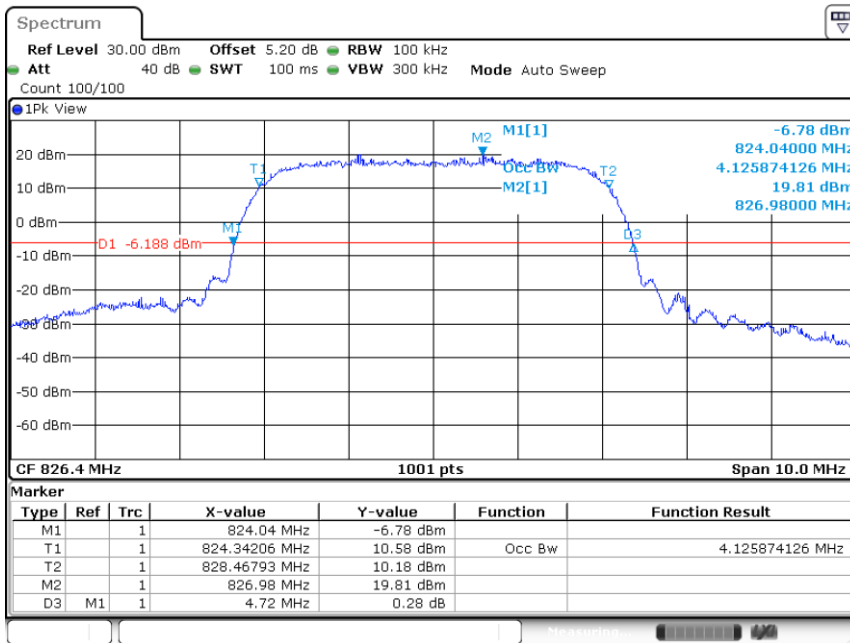
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**Band4-1513**



Date: 11.SEP.2020 09:32:10

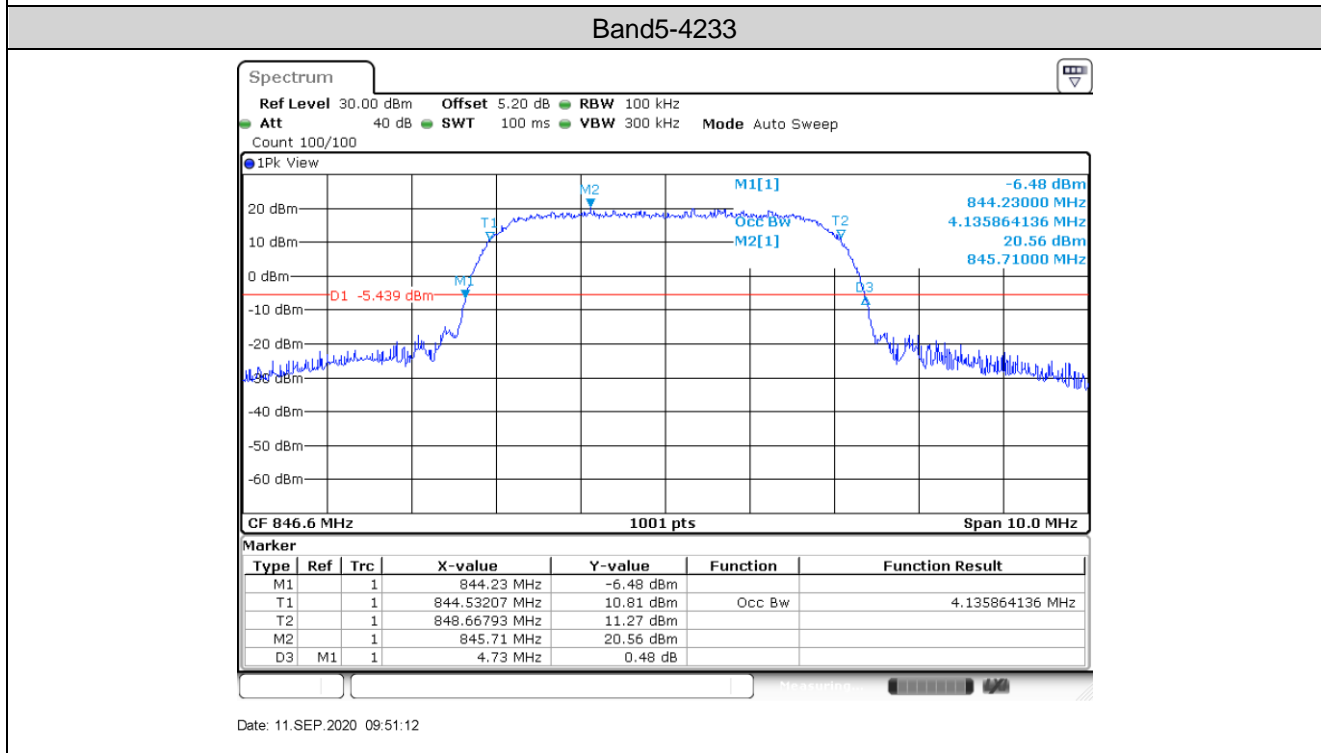
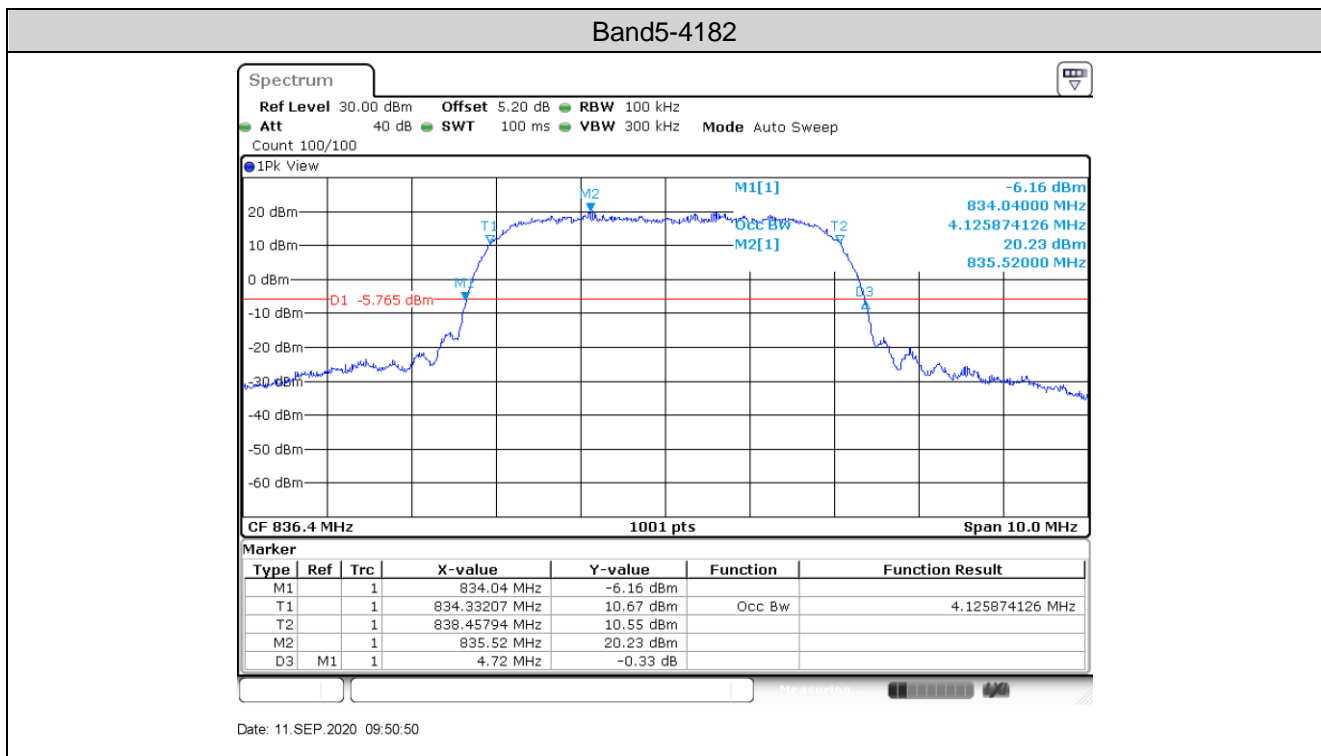
**Band5-4132**



Date: 11.SEP.2020 09:50:28



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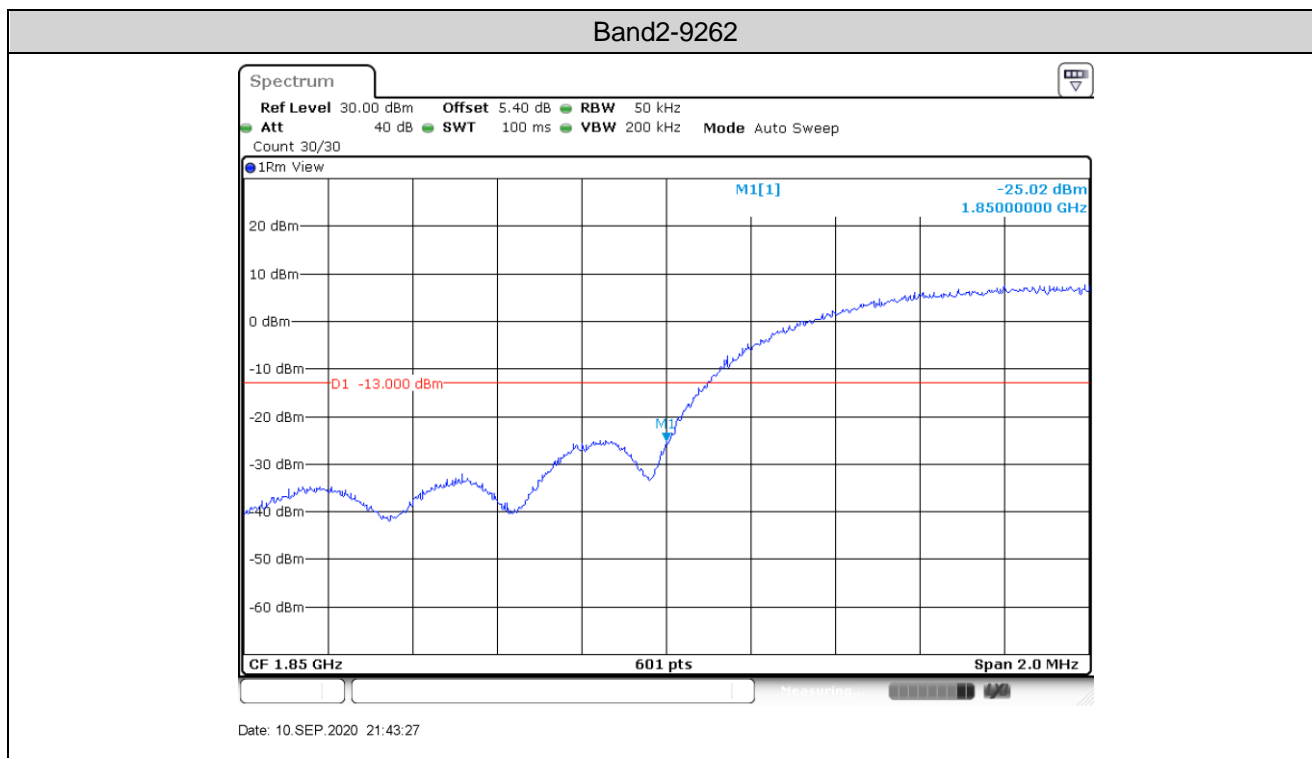
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## 5. Band Edge Compliance

### 5.1. Test Result

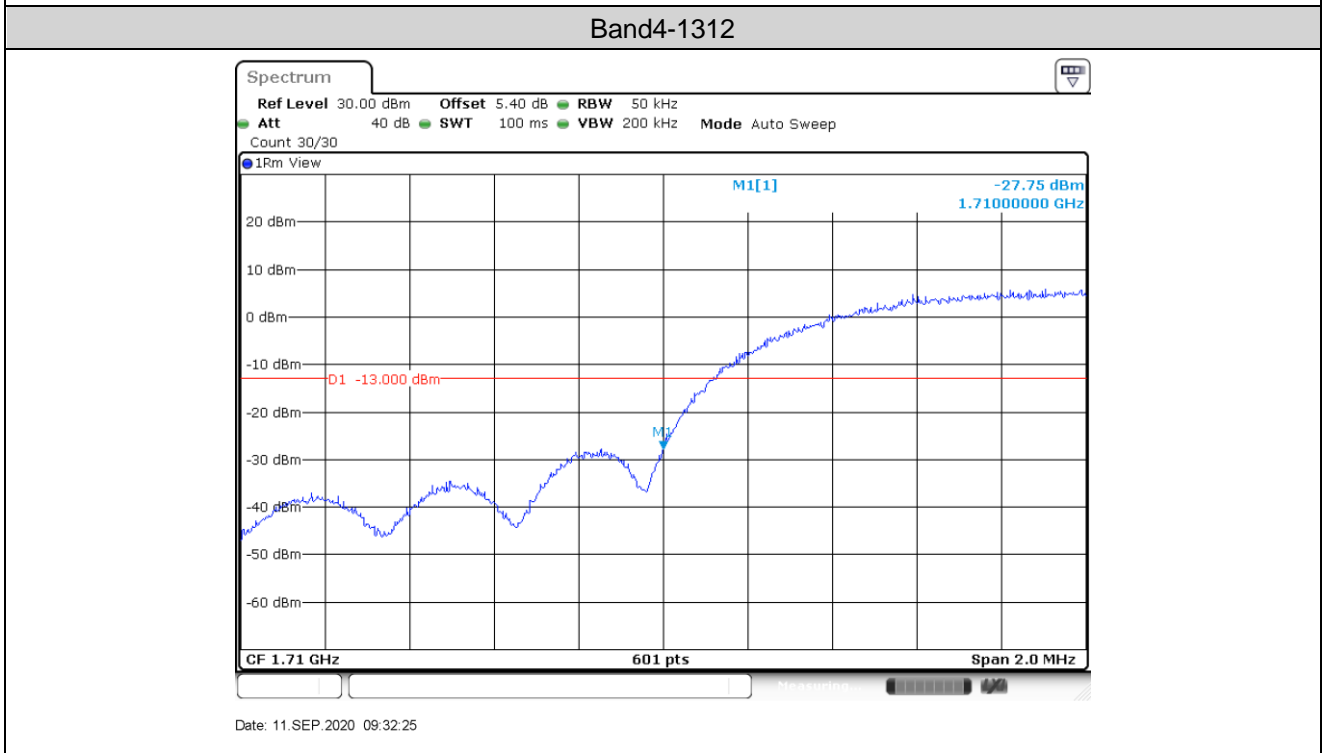
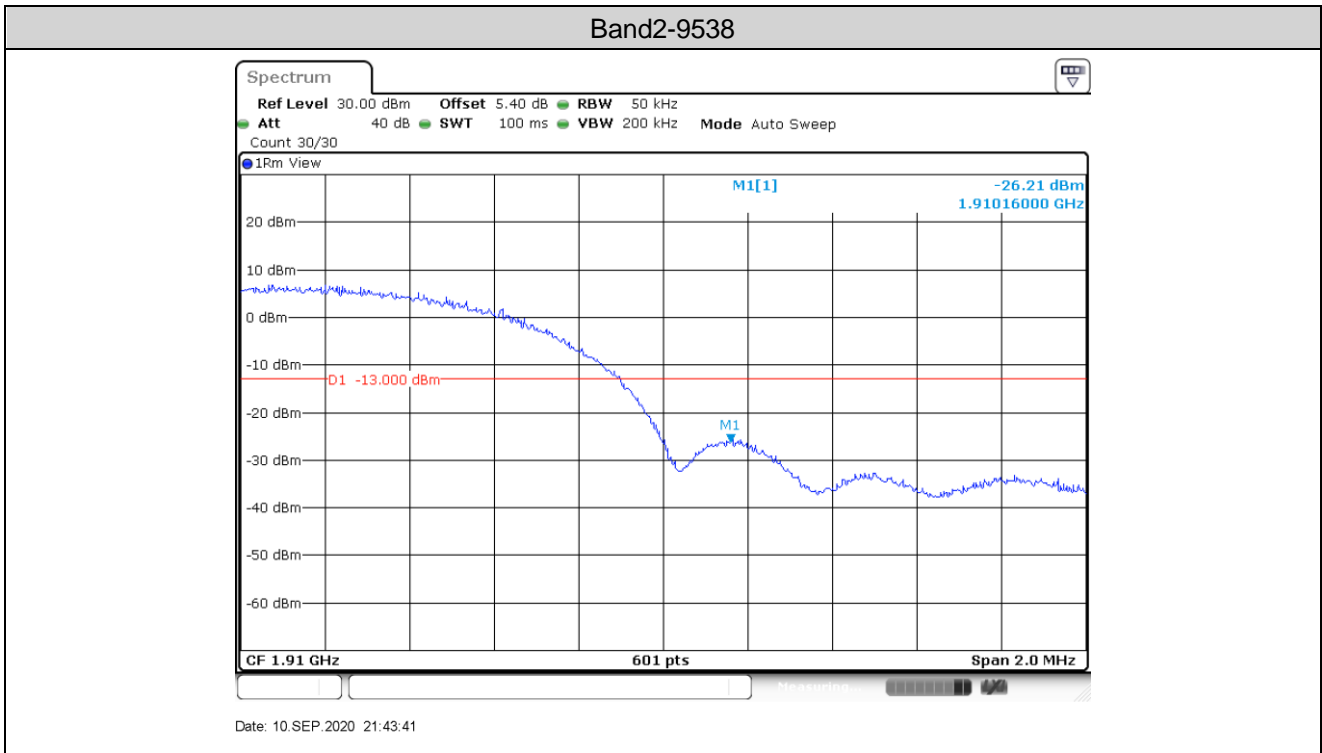
| Band  | Channel | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|-----------------|--------------|------------|---------|
| Band2 | 9262    | 1850.00         | -25.02       | -13        | PASS    |
| Band2 | 9538    | 1910.16         | -25.25       | -13        | PASS    |
| Band4 | 1312    | 1710.00         | -27.75       | -13        | PASS    |
| Band4 | 1513    | 1755.18         | -26.76       | -13        | PASS    |
| Band5 | 4132    | 823.83          | -24.28       | -13        | PASS    |
| Band5 | 4233    | 849.00          | -23.10       | -13        | PASS    |

### 5.2. Test Plots



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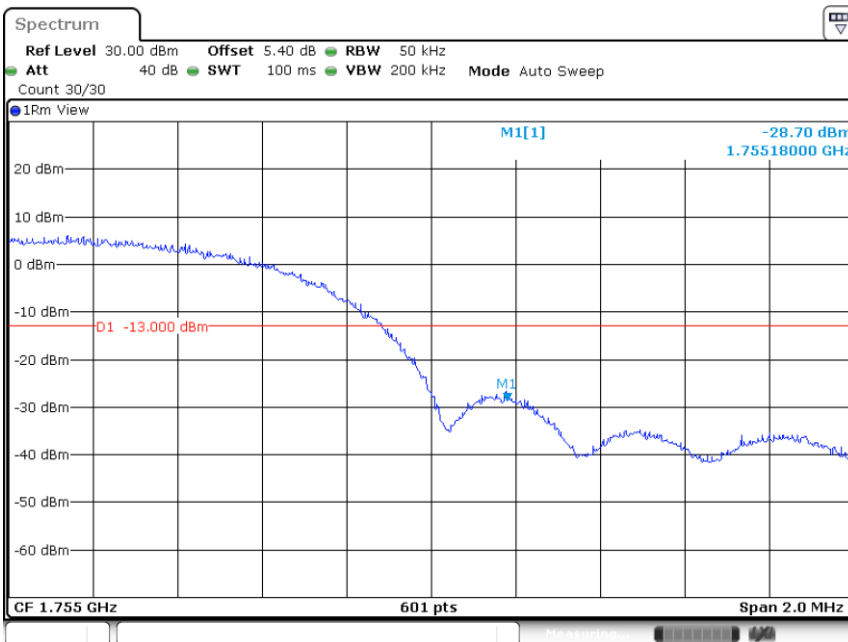
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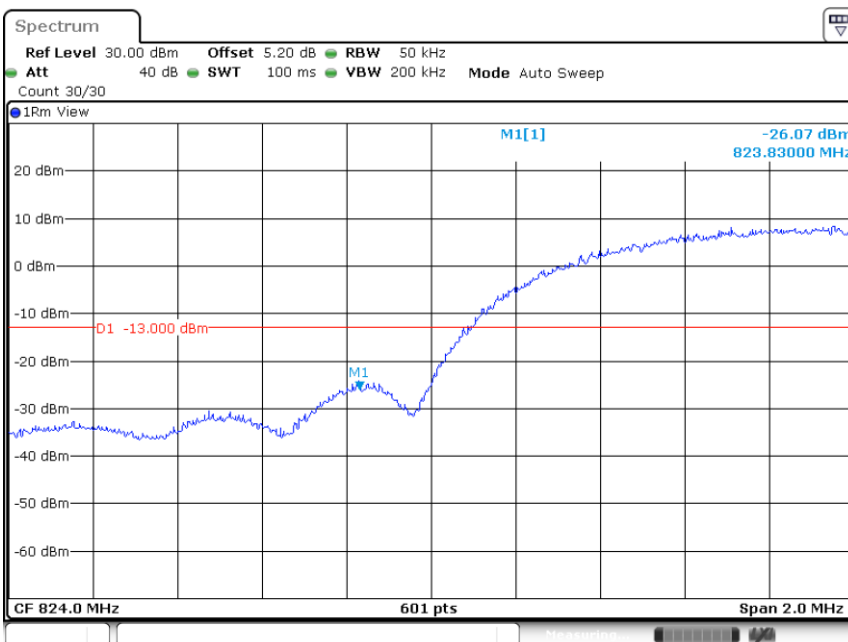
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**Band4-1513**



Date: 11.SEP.2020 09:32:39

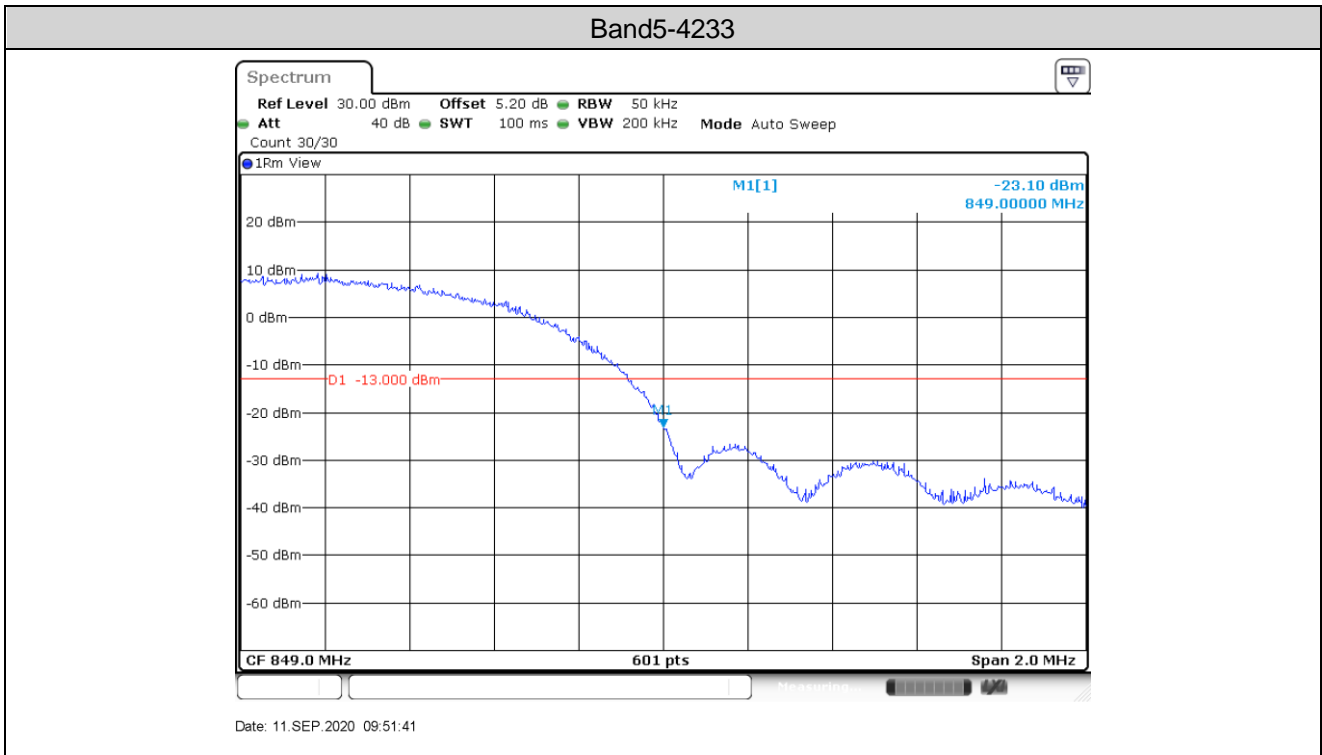
**Band5-4132**



Date: 11.SEP.2020 09:51:27



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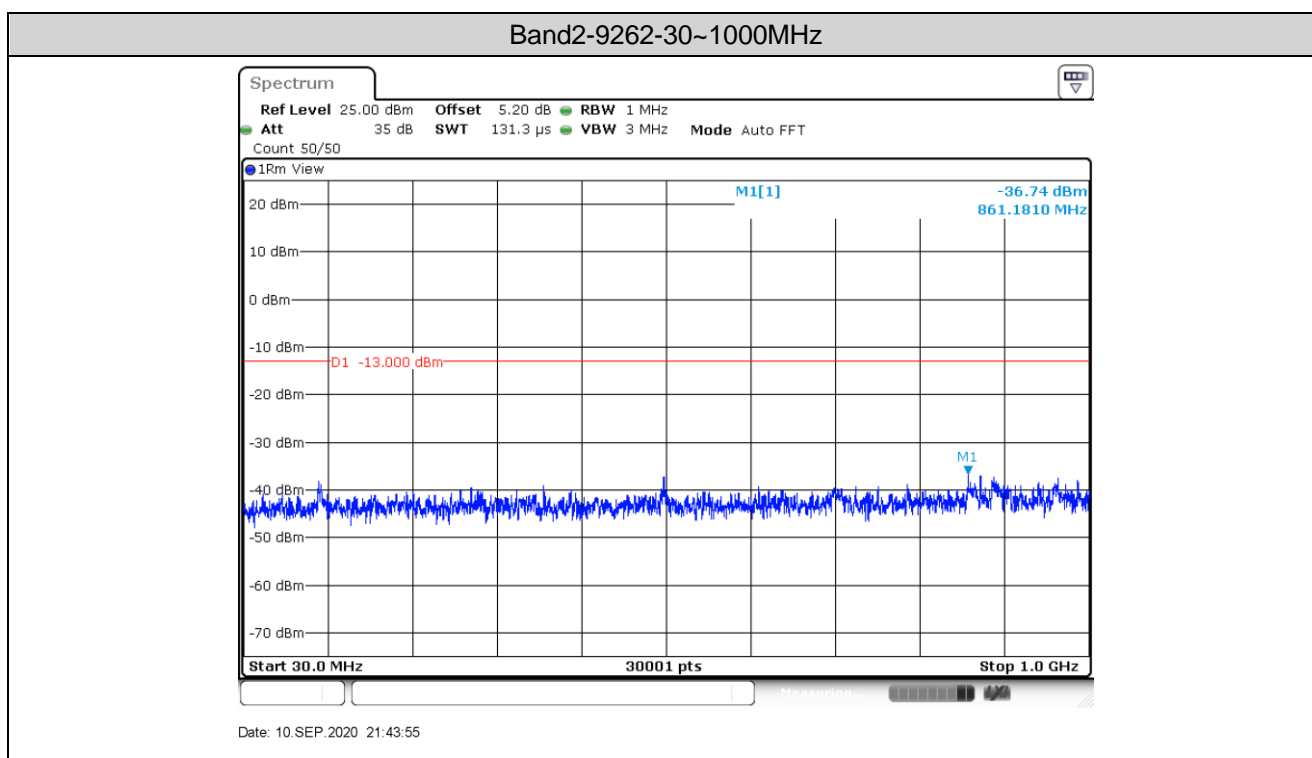
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## 6. Spurious Emission at Antenna Terminal

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  $< RBW/2$  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.

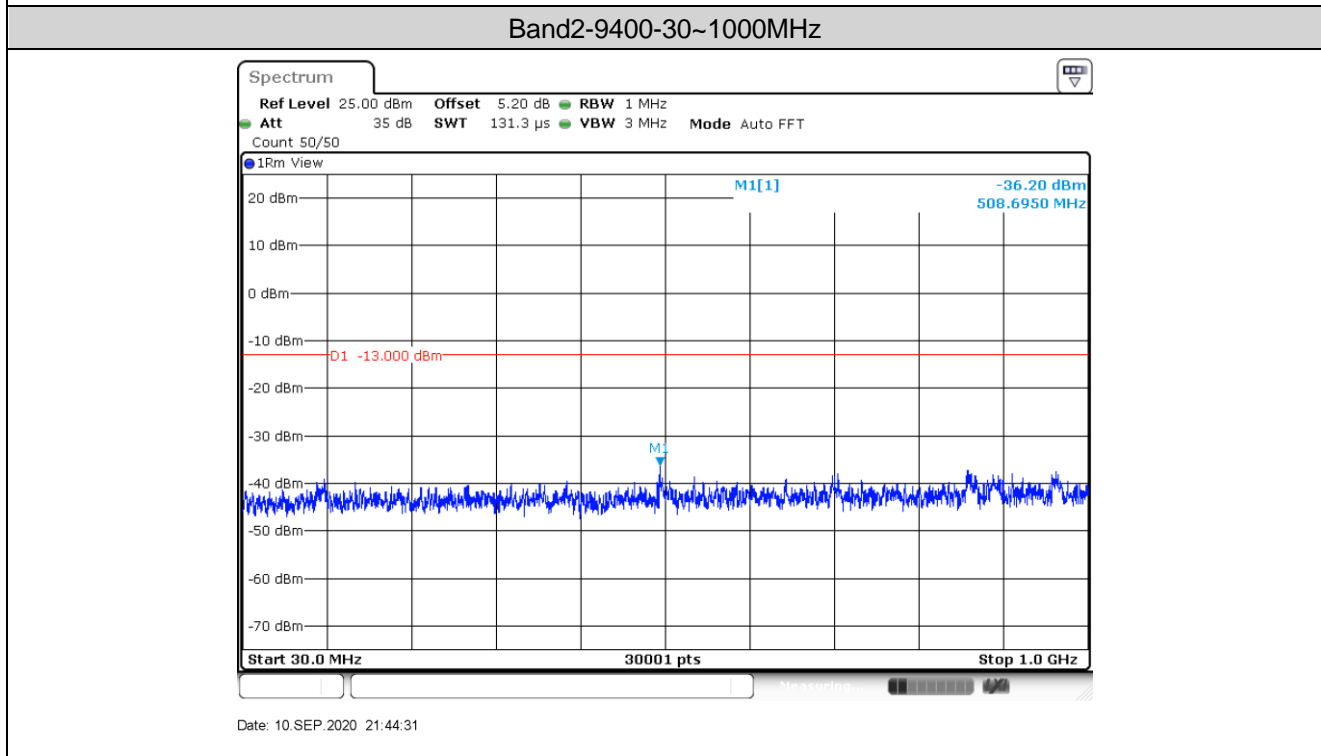
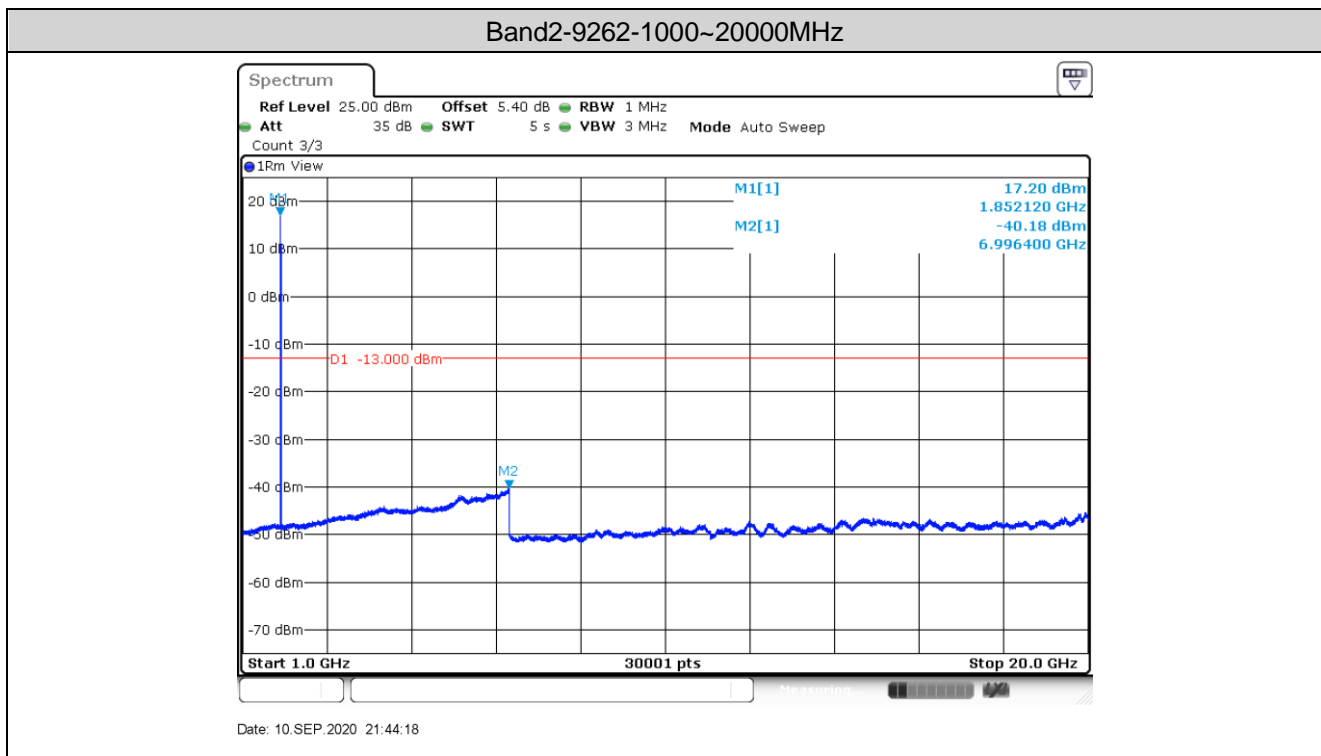
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

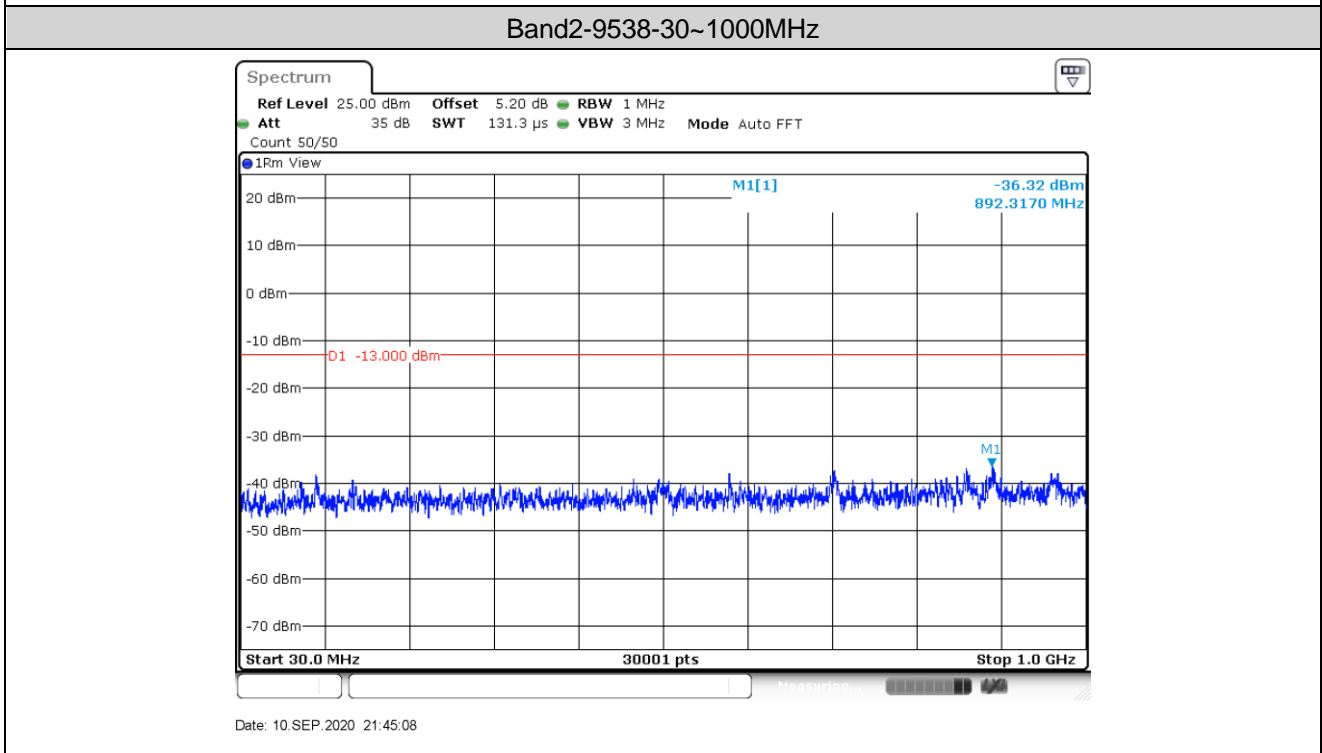
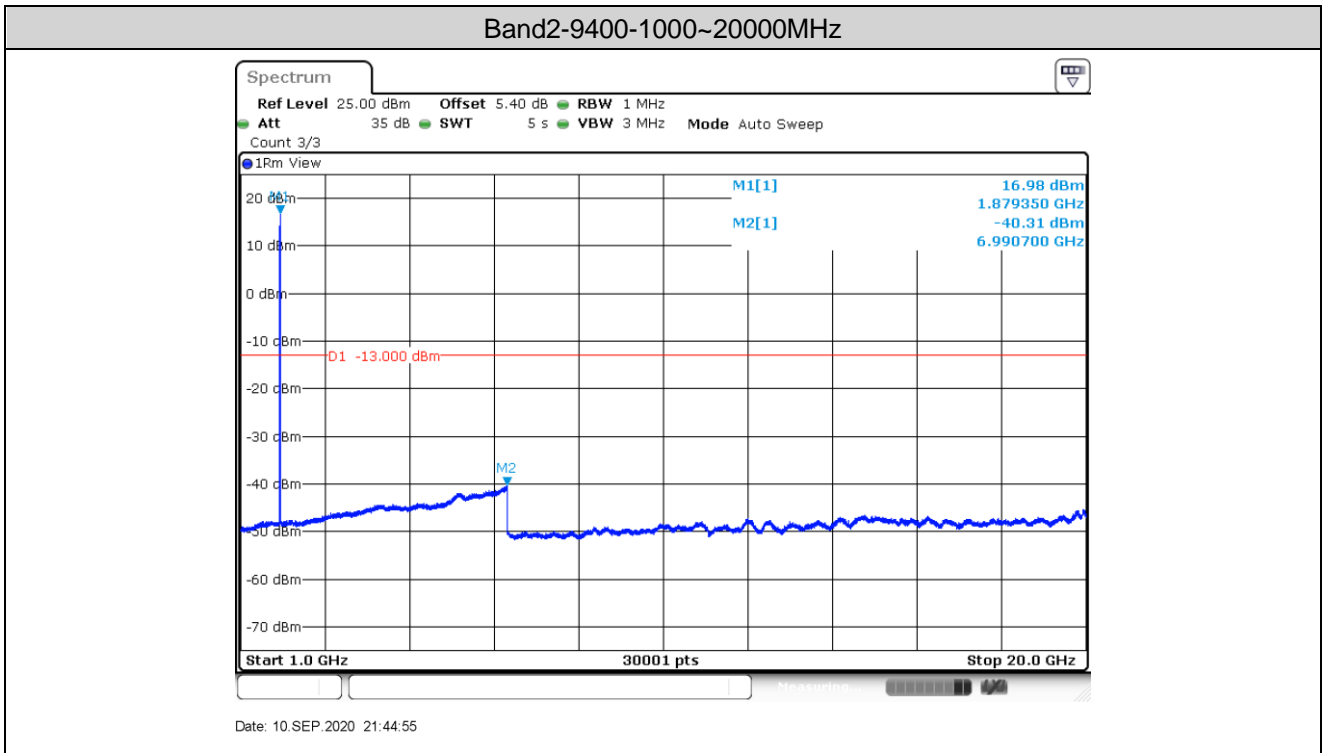


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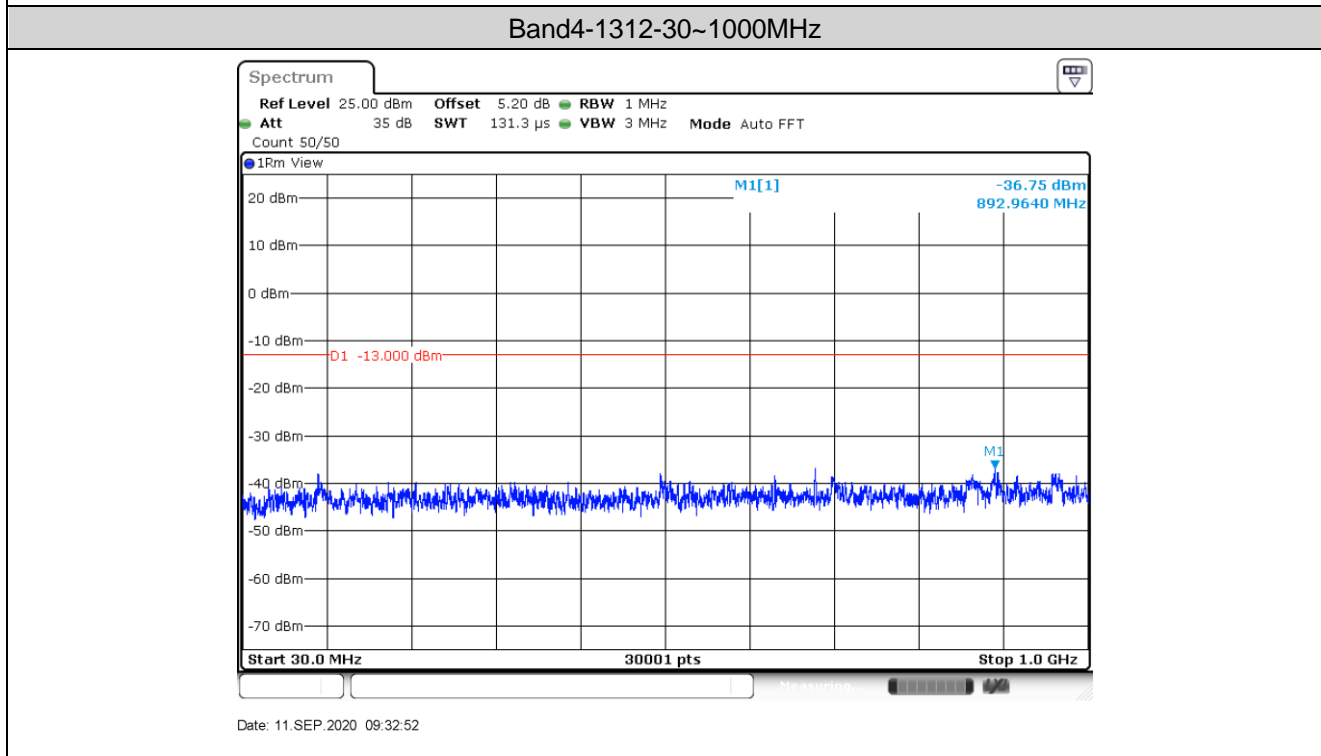
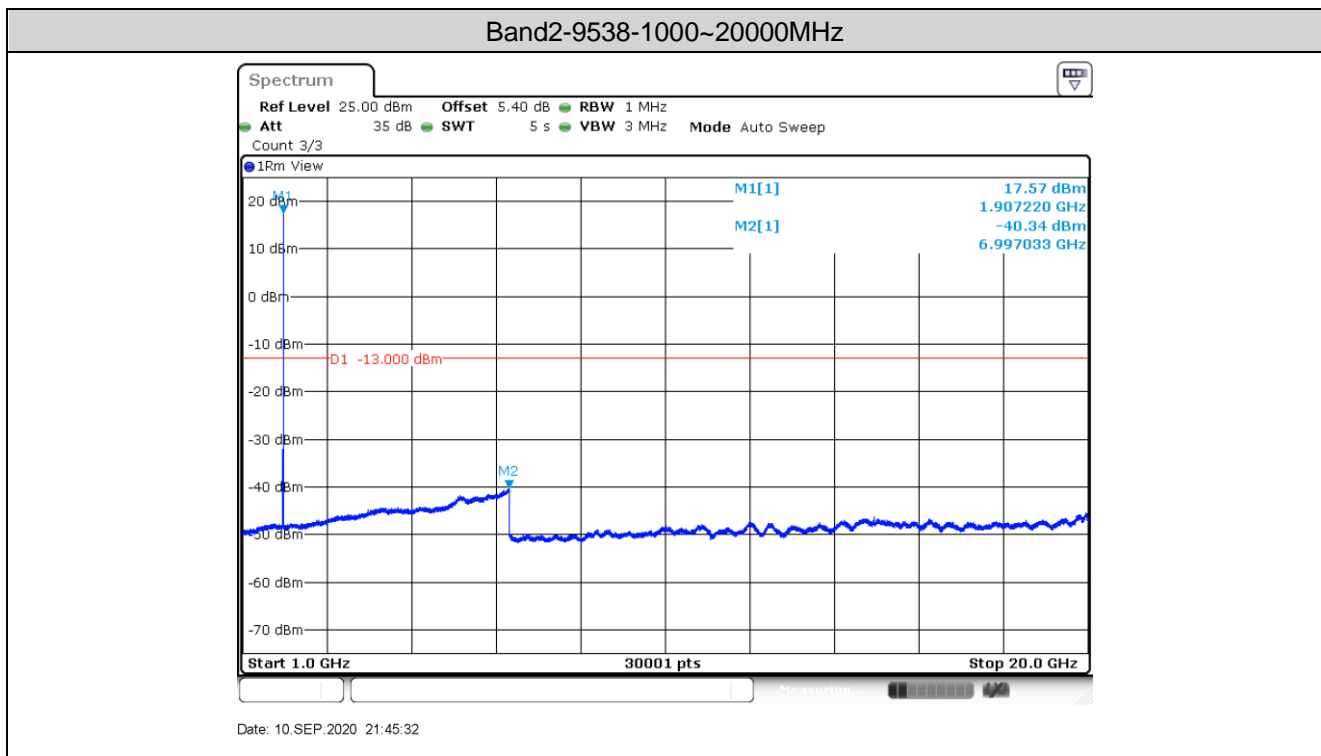


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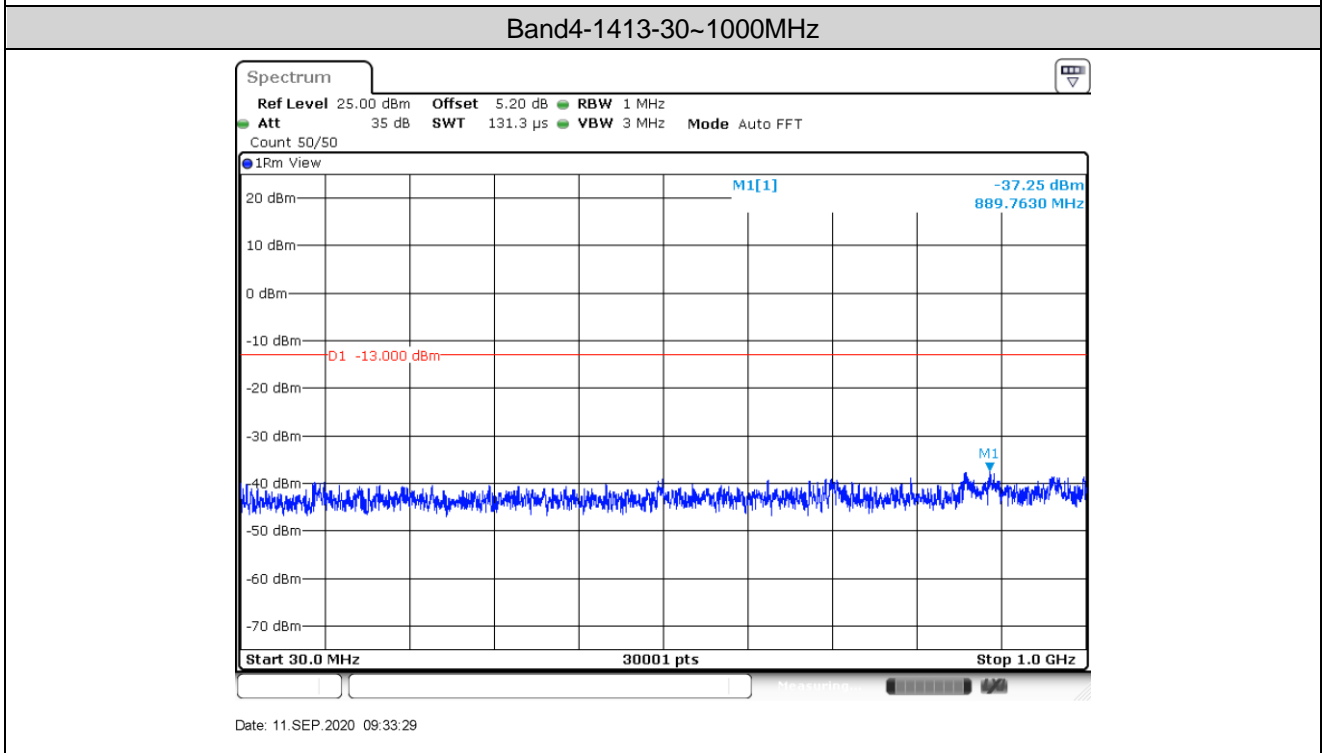
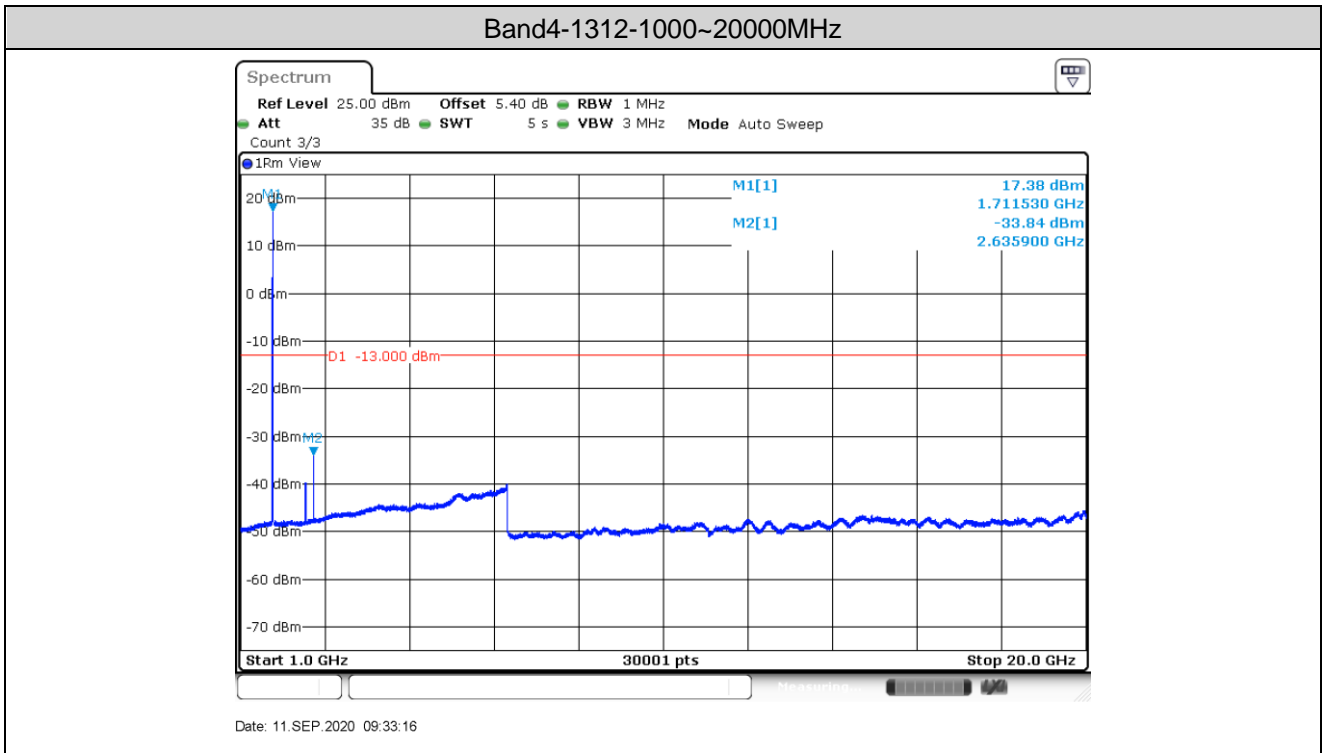


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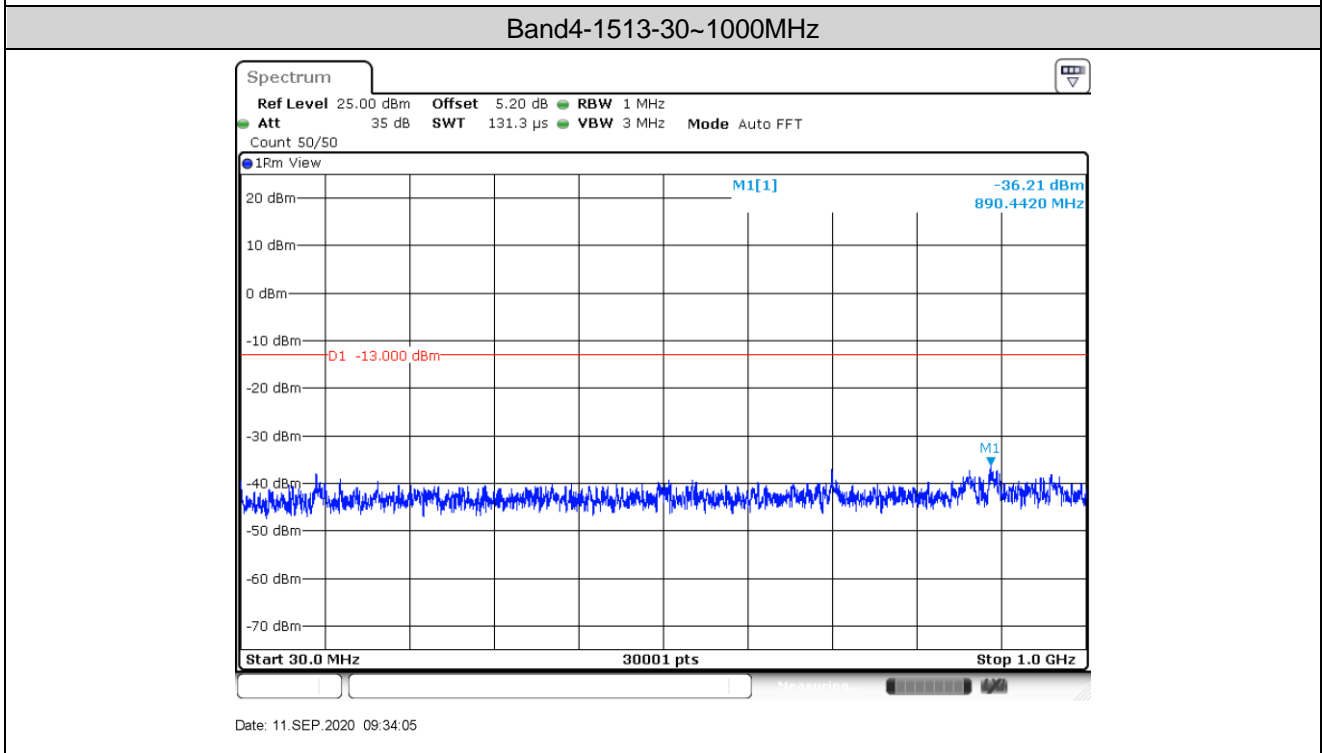
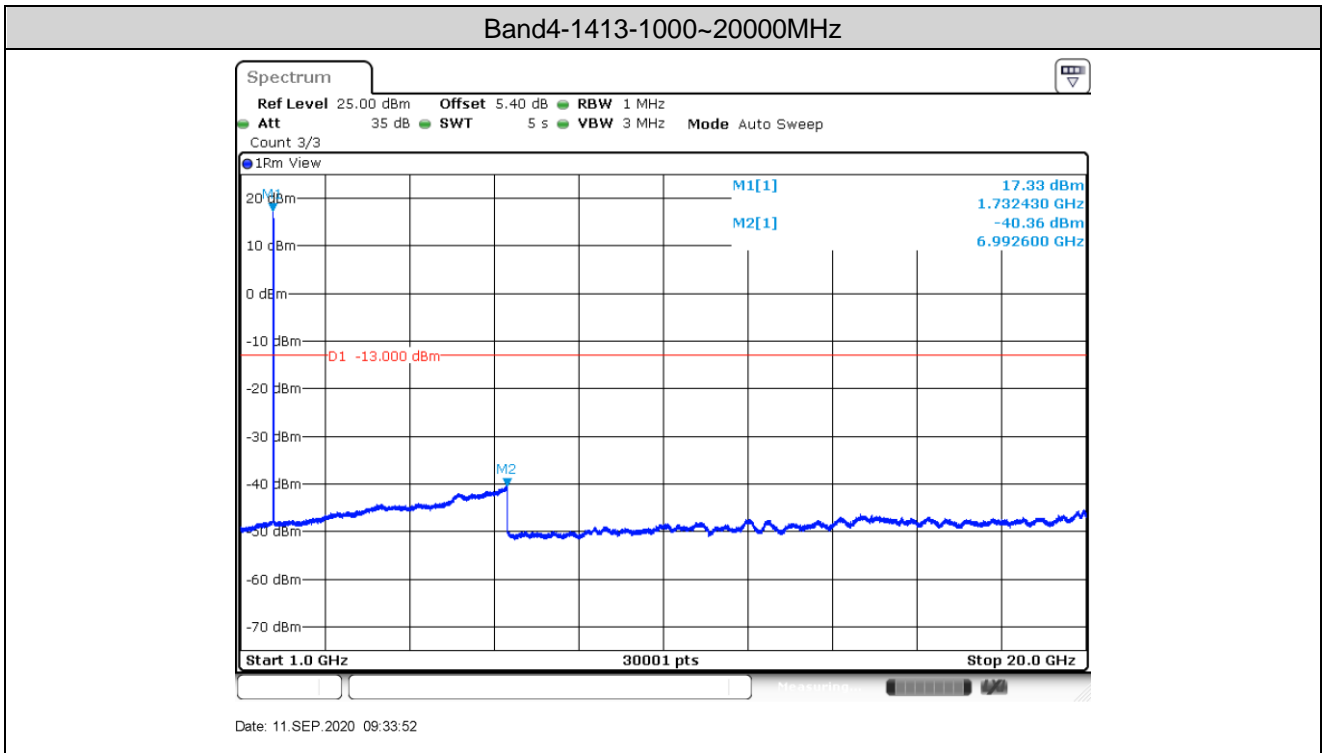


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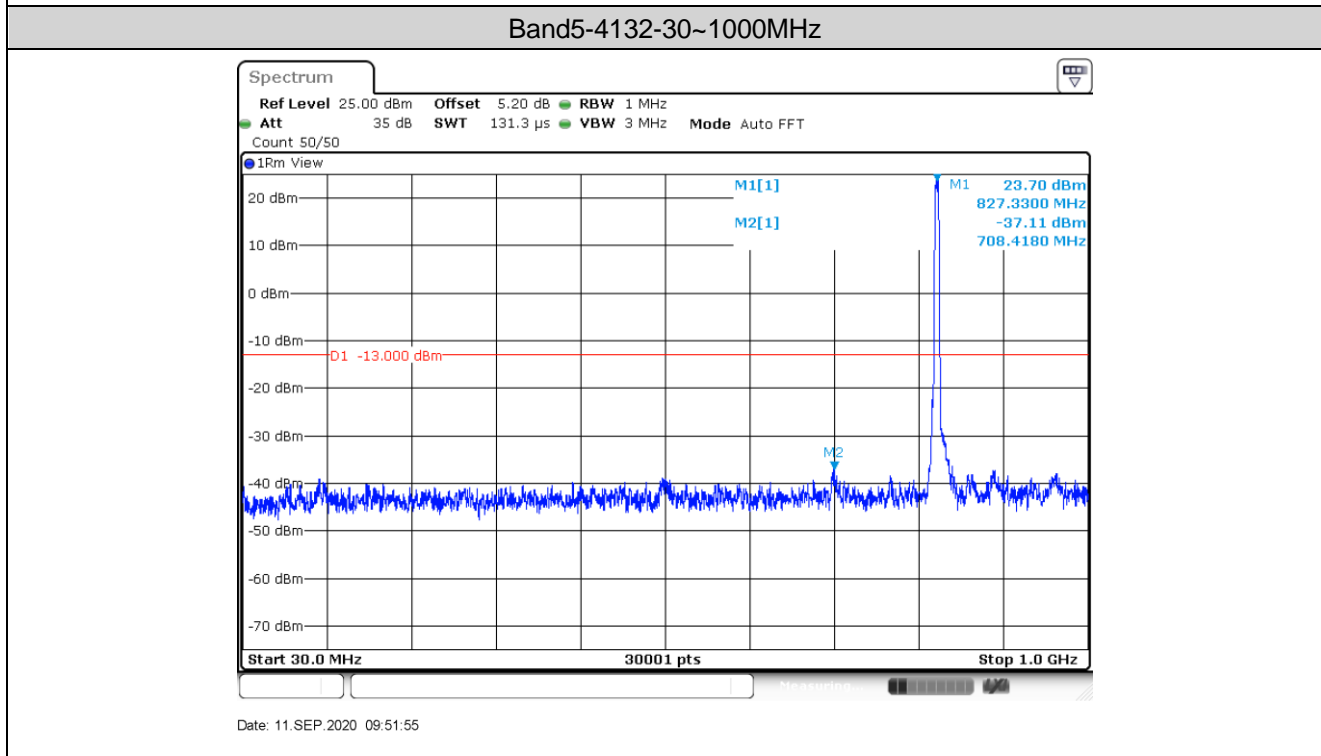
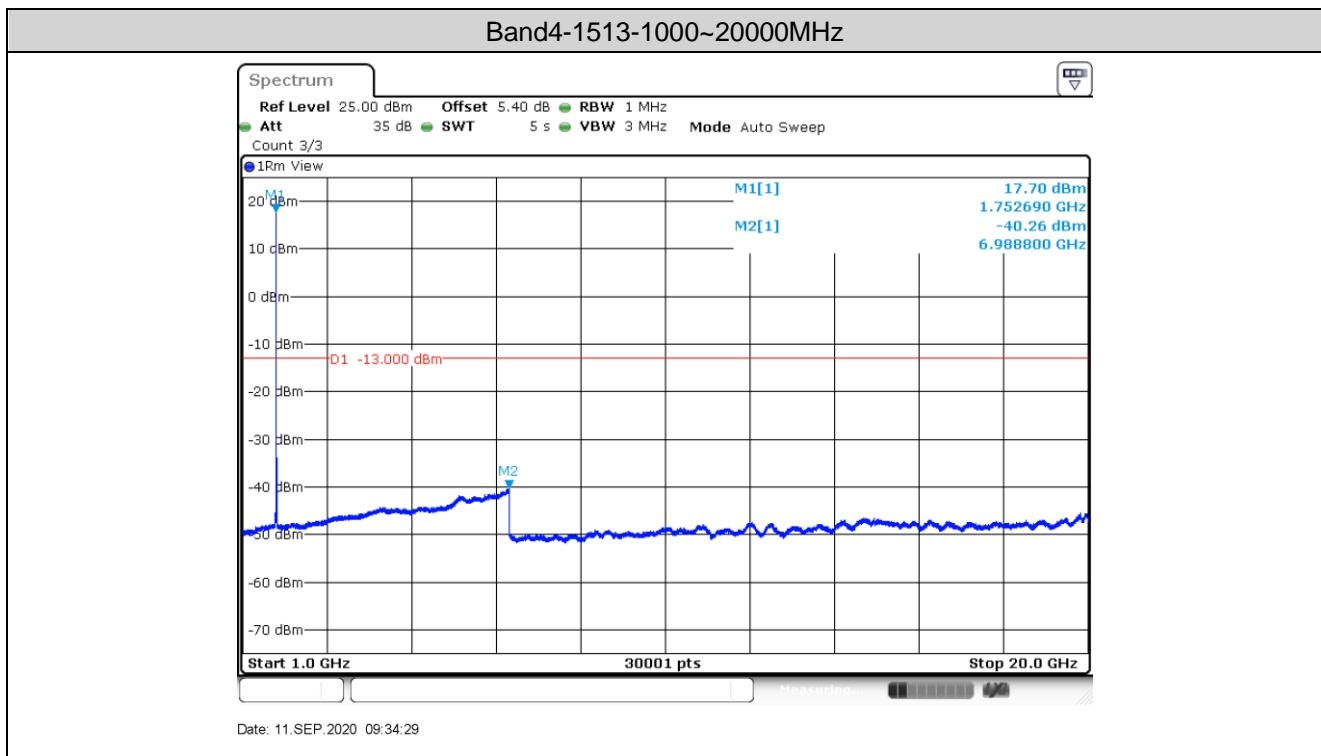
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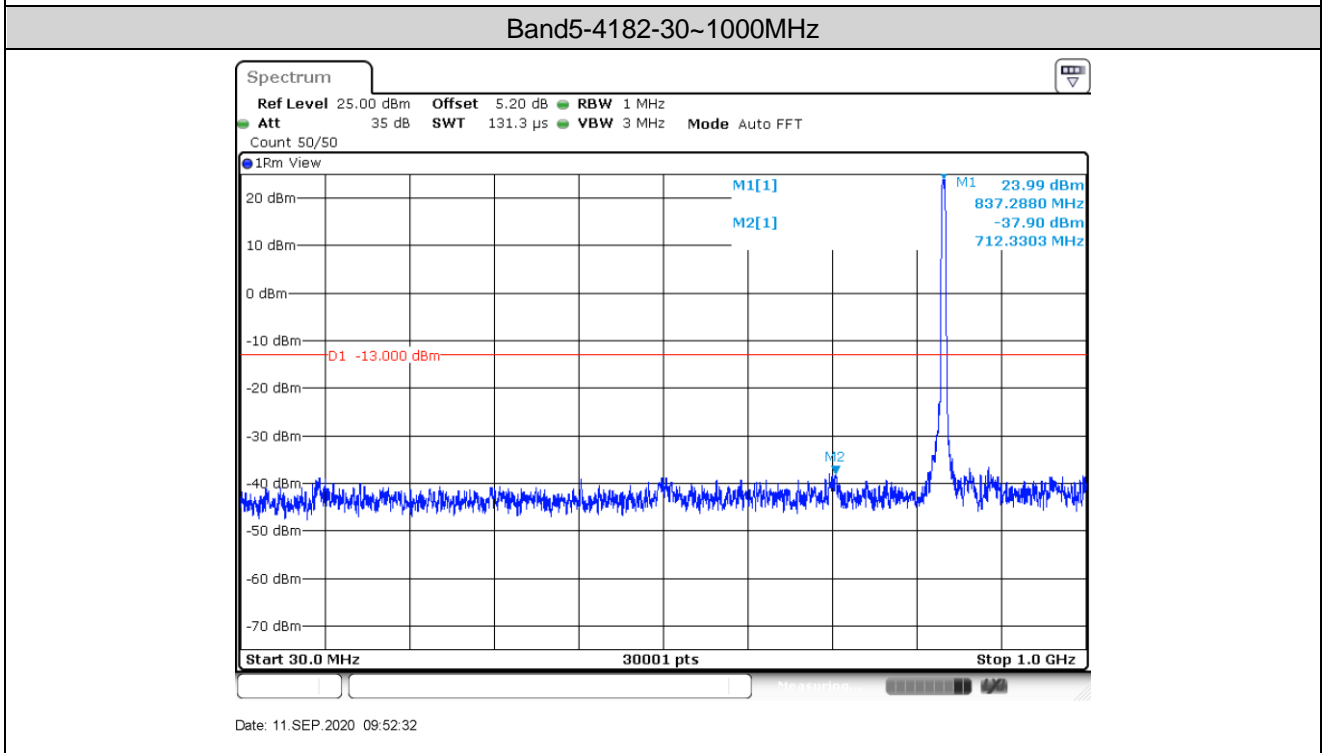
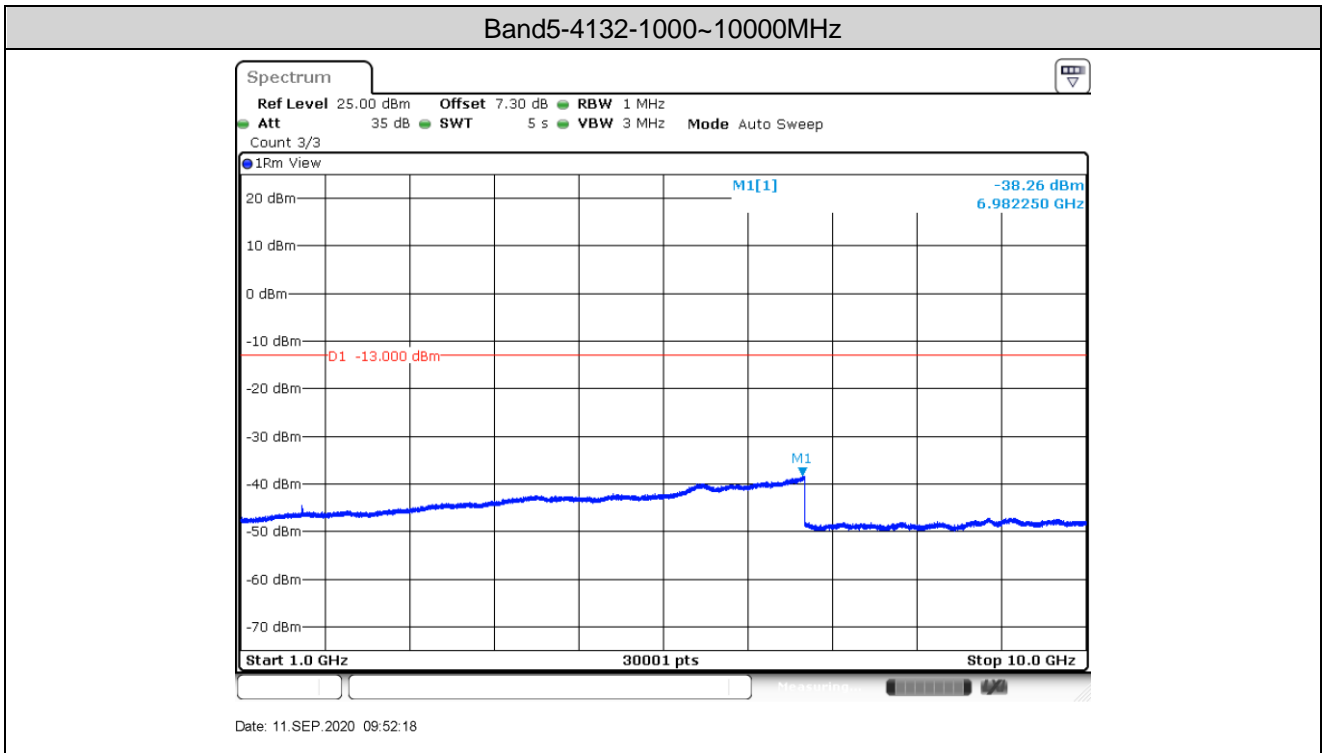
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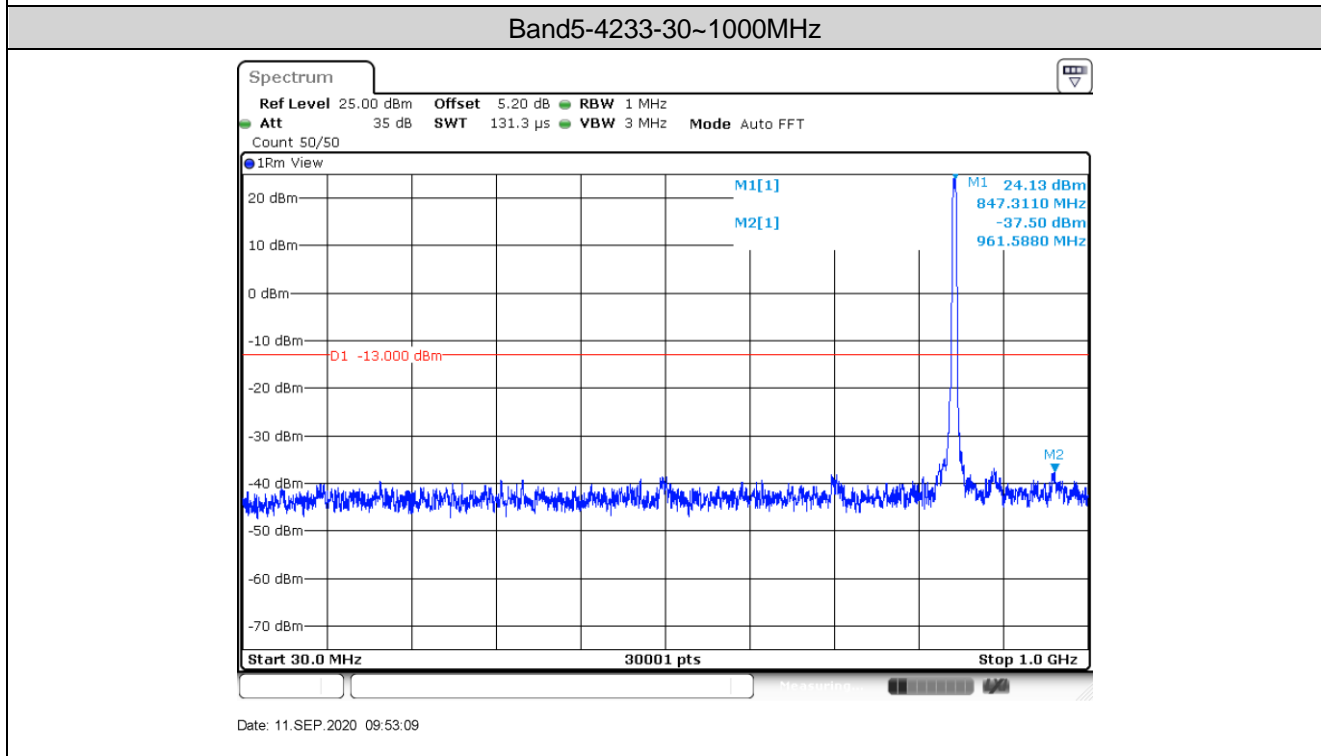
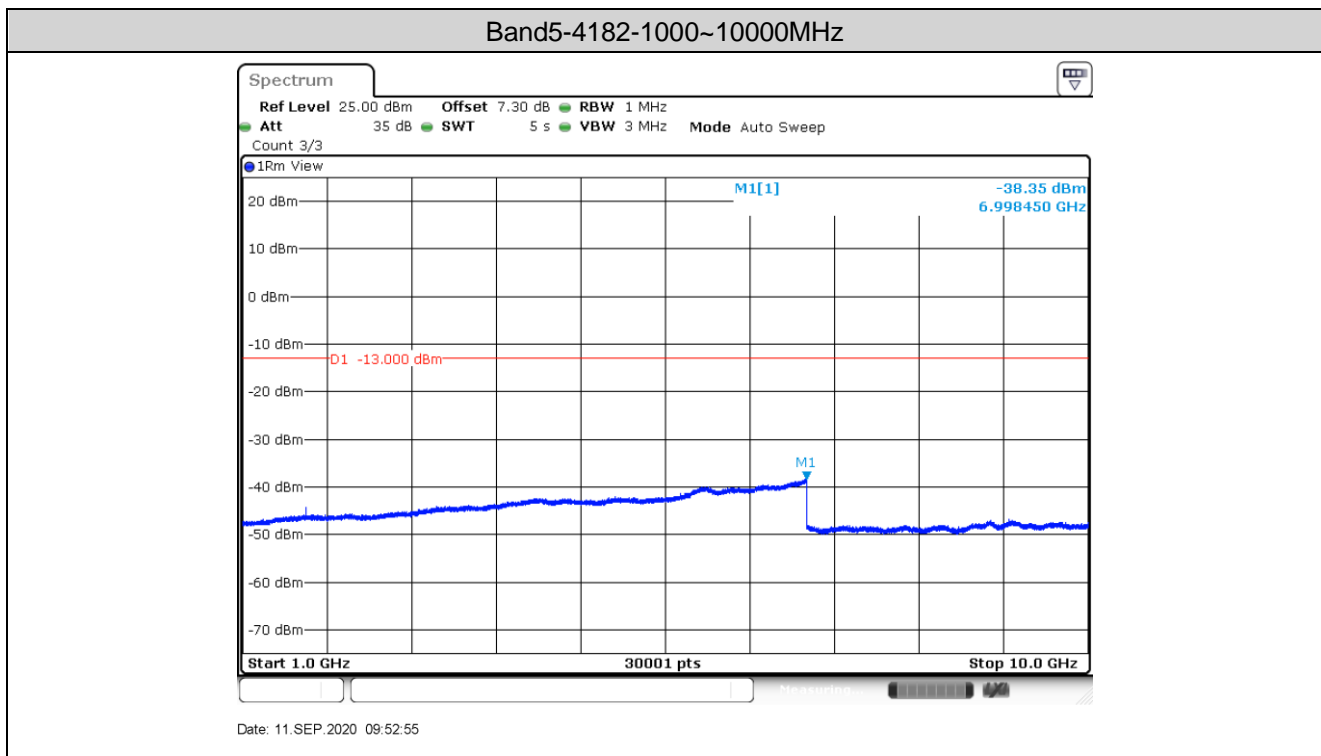


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## 7. Field Strength of Spurious Radiation

### 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) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 58.1799         | -71.10      | -13.00           | 58.10       | 222         | 35        | Vertical     |
| 109.5440        | -64.86      | -13.00           | 51.86       | 284         | 257       | Vertical     |
| 734.6917        | -62.88      | -13.00           | 49.88       | 274         | 193       | Vertical     |
| 3748.5250       | -61.52      | -13.00           | 48.52       | 259         | 352       | Vertical     |
| 7359.1453       | -55.60      | -13.00           | 42.60       | 256         | 35        | Vertical     |
| 17997.9999      | -40.37      | -13.00           | 27.37       | 281         | 352       | Vertical     |
| 43.2412         | -64.04      | -13.00           | 51.04       | 178         | 130       | Horizontal   |
| 80.1030         | -74.88      | -13.00           | 61.88       | 169         | 130       | Horizontal   |
| 229.1025        | -68.61      | -13.00           | 55.61       | 184         | 289       | Horizontal   |
| 4519.5507       | -61.55      | -13.00           | 48.55       | 175         | 352       | Horizontal   |
| 7434.1478       | -56.44      | -13.00           | 43.44       | 169         | 130       | Horizontal   |
| 16391.4464      | -43.26      | -13.00           | 30.26       | 199         | 289       | Horizontal   |

##### 7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 49.8860         | -72.65      | -13.00           | 59.65       | 241         | 130       | Vertical     |
| 103.7722        | -65.49      | -13.00           | 52.49       | 259         | 193       | Vertical     |
| 372.5726        | -67.05      | -13.00           | 54.05       | 271         | 162       | Vertical     |
| 3576.0192       | -62.04      | -13.00           | 49.04       | 256         | 193       | Vertical     |
| 7967.1656       | -55.81      | -13.00           | 42.81       | 288         | 320       | Vertical     |
| 17997.4999      | -40.29      | -13.00           | 27.29       | 247         | 35        | Vertical     |
| 44.4052         | -63.62      | -13.00           | 50.62       | 187         | 98        | Horizontal   |



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|            |        |        |       |     |     |            |
|------------|--------|--------|-------|-----|-----|------------|
| 99.1160    | -75.63 | -13.00 | 62.63 | 169 | 290 | Horizontal |
| 242.1011   | -68.69 | -13.00 | 55.69 | 175 | 130 | Horizontal |
| 5556.0852  | -61.55 | -13.00 | 48.55 | 184 | 290 | Horizontal |
| 7462.6488  | -56.04 | -13.00 | 43.04 | 162 | 354 | Horizontal |
| 16398.4466 | -43.31 | -13.00 | 30.31 | 198 | 256 | Horizontal |

**7.1.1.3. Test Channel = HCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 48.4309         | -72.86      | -13.00           | 59.86       | 222         | 193       | Vertical     |
| 116.6738        | -64.83      | -13.00           | 51.83       | 247         | 352       | Vertical     |
| 393.1377        | -68.27      | -13.00           | 55.27       | 259         | 288       | Vertical     |
| 3714.5238       | -62.20      | -13.00           | 49.20       | 262         | 35        | Vertical     |
| 7460.1487       | -55.73      | -13.00           | 42.73       | 258         | 225       | Vertical     |
| 17996.4999      | -39.93      | -13.00           | 26.93       | 262         | 4         | Vertical     |
| 39.4095         | -63.93      | -13.00           | 50.93       | 198         | 259       | Horizontal   |
| 111.3386        | -75.48      | -13.00           | 62.48       | 174         | 259       | Horizontal   |
| 240.6945        | -67.86      | -13.00           | 54.86       | 165         | 66        | Horizontal   |
| 3841.5281       | -61.09      | -13.00           | 48.09       | 185         | 196       | Horizontal   |
| 7482.6494       | -56.28      | -13.00           | 43.28       | 162         | 326       | Horizontal   |
| 16394.9465      | -44.01      | -13.00           | 31.01       | 198         | 165       | 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) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 47.0729         | -71.07      | -13.00           | 58.07       | 241         | 320       | Vertical     |
| 112.2601        | -62.50      | -13.00           | 49.50       | 259         | 162       | Vertical     |
| 610.4285        | -61.50      | -13.00           | 48.50       | 262         | 130       | Vertical     |
| 3702.0234       | -60.43      | -13.00           | 47.43       | 278         | 130       | Vertical     |



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|            |        |        |       |     |     |            |
|------------|--------|--------|-------|-----|-----|------------|
| 7453.1484  | -53.33 | -13.00 | 40.33 | 265 | 288 | Vertical   |
| 17986.4996 | -33.89 | -13.00 | 20.89 | 248 | 320 | Vertical   |
| 44.8417    | -62.25 | -13.00 | 49.25 | 147 | 67  | Horizontal |
| 101.8321   | -73.20 | -13.00 | 60.20 | 198 | 232 | Horizontal |
| 242.8286   | -64.99 | -13.00 | 51.99 | 175 | 359 | Horizontal |
| 3542.0181  | -59.54 | -13.00 | 46.54 | 162 | 200 | Horizontal |
| 7465.1488  | -53.56 | -13.00 | 40.56 | 184 | 359 | Horizontal |
| 16404.9468 | -35.09 | -13.00 | 22.09 | 175 | 169 | Horizontal |

**7.2.1.2. Test Channel = MCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 50.2740         | -70.83      | -13.00           | 57.83       | 222         | 320       | Vertical     |
| 107.3614        | -63.29      | -13.00           | 50.29       | 257         | 352       | Vertical     |
| 287.4024        | -66.27      | -13.00           | 53.27       | 265         | 257       | Vertical     |
| 3571.5191       | -60.48      | -13.00           | 47.48       | 248         | 320       | Vertical     |
| 7412.1471       | -53.34      | -13.00           | 40.34       | 291         | 67        | Vertical     |
| 17998.5000      | -34.22      | -13.00           | 21.22       | 258         | 320       | Vertical     |
| 41.8346         | -62.58      | -13.00           | 49.58       | 187         | 236       | Horizontal   |
| 98.8249         | -73.38      | -13.00           | 60.38       | 139         | 268       | Horizontal   |
| 227.5019        | -65.82      | -13.00           | 52.82       | 187         | 74        | Horizontal   |
| 3631.0210       | -59.47      | -13.00           | 46.47       | 195         | 236       | Horizontal   |
| 7475.6492       | -53.74      | -13.00           | 40.74       | 175         | 300       | Horizontal   |
| 16398.9466      | -35.26      | -13.00           | 22.26       | 169         | 359       | Horizontal   |

**7.2.1.3. Test Channel = HCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 48.5279         | -71.01      | -13.00           | 58.01       | 222         | 224       | Vertical     |
| 109.8350        | -62.58      | -13.00           | 49.58       | 257         | 287       | Vertical     |
| 395.4173        | -65.84      | -13.00           | 52.84       | 286         | 129       | Vertical     |
| 3521.5174       | -60.54      | -13.00           | 47.54       | 284         | 4         | Vertical     |



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|            |        |        |       |     |     |            |
|------------|--------|--------|-------|-----|-----|------------|
| 7450.1483  | -53.37 | -13.00 | 40.37 | 259 | 160 | Vertical   |
| 17997.4999 | -34.23 | -13.00 | 21.23 | 275 | 255 | Vertical   |
| 44.0172    | -62.32 | -13.00 | 49.32 | 187 | 352 | Horizontal |
| 99.0190    | -73.15 | -13.00 | 60.15 | 196 | 98  | Horizontal |
| 242.3436   | -65.59 | -13.00 | 52.59 | 184 | 67  | Horizontal |
| 3599.5200  | -59.49 | -13.00 | 46.49 | 175 | 130 | Horizontal |
| 7497.1499  | -53.41 | -13.00 | 40.41 | 169 | 225 | Horizontal |
| 16403.4468 | -35.45 | -13.00 | 22.45 | 199 | 256 | 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) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 50.5165         | -72.13      | -13.00           | 59.13       | 284         | 67        | Vertical     |
| 112.6481        | -65.24      | -13.00           | 52.24       | 259         | 256       | Vertical     |
| 354.7722        | -69.30      | -13.00           | 56.30       | 265         | 288       | Vertical     |
| 1651.7303       | -60.27      | -13.00           | 47.27       | 287         | 232       | Vertical     |
| 2465.8932       | -46.19      | -13.00           | 33.19       | 214         | 149       | Vertical     |
| 7360.2120       | -56.03      | -13.00           | 43.03       | 259         | 98        | Vertical     |
| 44.4052         | -64.57      | -13.00           | 51.57       | 178         | 131       | Horizontal   |
| 554.4567        | -63.81      | -13.00           | 50.81       | 169         | 68        | Horizontal   |
| 1654.1308       | -56.36      | -13.00           | 43.36       | 174         | 55        | Horizontal   |
| 2700.7401       | -50.99      | -13.00           | 37.99       | 185         | 96        | Horizontal   |
| 5640.0213       | -61.05      | -13.00           | 48.05       | 167         | 321       | Horizontal   |
| 9338.9446       | -52.89      | -13.00           | 39.89       | 199         | 195       | Horizontal   |

##### 7.3.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 115.8978        | -65.50      | -13.00           | 52.50       | 254         | 322       | Vertical     |



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|           |        |        |       |     |     |            |
|-----------|--------|--------|-------|-----|-----|------------|
| 488.9784  | -66.22 | -13.00 | 53.22 | 259 | 195 | Vertical   |
| 1670.5341 | -60.33 | -13.00 | 47.33 | 257 | 232 | Vertical   |
| 2465.4931 | -47.02 | -13.00 | 34.02 | 265 | 187 | Vertical   |
| 7417.3806 | -56.01 | -13.00 | 43.01 | 284 | 163 | Vertical   |
| 9897.3299 | -52.69 | -13.00 | 39.69 | 256 | 68  | Vertical   |
| 45.0843   | -63.98 | -13.00 | 50.98 | 187 | 4   | Horizontal |
| 236.1838  | -67.86 | -13.00 | 54.86 | 169 | 351 | Horizontal |
| 1670.9342 | -58.29 | -13.00 | 45.29 | 175 | 154 | Horizontal |
| 2465.4931 | -46.38 | -13.00 | 33.38 | 184 | 356 | Horizontal |
| 7444.9148 | -55.98 | -13.00 | 42.98 | 162 | 256 | Horizontal |
| 9324.7108 | -52.57 | -13.00 | 39.57 | 187 | 351 | Horizontal |

**7.3.1.3. Test Channel = HCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 50.3225         | -72.42      | -13.00           | 59.42       | 187         | 348       | Vertical     |
| 115.8978        | -65.60      | -13.00           | 52.60       | 169         | 223       | Vertical     |
| 461.9141        | -67.07      | -13.00           | 54.07       | 174         | 317       | Vertical     |
| 1942.9886       | -58.12      | -13.00           | 45.12       | 185         | 0         | Vertical     |
| 2688.7377       | -52.20      | -13.00           | 39.20       | 162         | 83        | Vertical     |
| 8021.7341       | -55.52      | -13.00           | 42.52       | 187         | 35        | Vertical     |
| 39.0215         | -64.61      | -13.00           | 51.61       | 147         | 164       | Horizontal   |
| 103.2872        | -75.27      | -13.00           | 62.27       | 165         | 266       | Horizontal   |
| 239.1910        | -67.70      | -13.00           | 54.70       | 184         | 66        | Horizontal   |
| 1691.3383       | -58.91      | -13.00           | 45.91       | 195         | 60        | Horizontal   |
| 2700.7401       | -50.93      | -13.00           | 37.93       | 178         | 162       | Horizontal   |
| 9314.9105       | -52.53      | -13.00           | 39.53       | 162         | 132       | Horizontal   |



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**Test on the worst case:**

**7.4. Test Band = WCDMA Band V**

**7.4.1. Test Mode =WCDMA/TM1**

**7.4.1.1. Test Channel = LCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 32.1826         | -72.61      | -13.00           | 59.61       | 258         | 95        | Vertical     |
| 113.2302        | -65.00      | -13.00           | 52.00       | 296         | 0         | Vertical     |
| 347.8849        | -68.39      | -13.00           | 55.39       | 158         | 227       | Vertical     |
| 1616.1232       | -61.20      | -13.00           | 48.20       | 184         | 208       | Vertical     |
| 2846.3693       | -52.02      | -13.00           | 39.02       | 258         | 137       | Vertical     |
| 9322.1441       | -52.12      | -13.00           | 39.12       | 262         | 227       | Vertical     |
| 41.4466         | -63.65      | -13.00           | 50.65       | 188         | 69        | Horizontal   |
| 85.7778         | -73.28      | -13.00           | 60.28       | 196         | 261       | Horizontal   |
| 236.3778        | -68.34      | -13.00           | 55.34       | 231         | 229       | Horizontal   |
| 1567.7135       | -61.77      | -13.00           | 48.77       | 251         | 326       | Horizontal   |
| 2693.5387       | -50.75      | -13.00           | 37.75       | 184         | 134       | Horizontal   |
| 7477.3492       | -55.88      | -13.00           | 42.88       | 174         | 325       | 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               | 1.54           | 0.000831        | ±2.5        | PASS    |
| Band2   | 9262    | VN            | NT               | 0.97           | 0.000524        | ±2.5        | PASS    |
| Band2   | 9262    | VH            | NT               | 1.54           | 0.000831        | ±2.5        | PASS    |
| Band2   | 9400    | VL            | NT               | -2.25          | -0.001197       | ±2.5        | PASS    |
| Band2   | 9400    | VN            | NT               | -2.34          | -0.001245       | ±2.5        | PASS    |
| Band2   | 9400    | VH            | NT               | -2.60          | -0.001383       | ±2.5        | PASS    |
| Band2   | 9538    | VL            | NT               | -8.28          | -0.004341       | ±2.5        | PASS    |
| Band2   | 9538    | VN            | NT               | -8.07          | -0.004230       | ±2.5        | PASS    |
| Band2   | 9538    | VH            | NT               | -8.00          | -0.004194       | ±2.5        | PASS    |
| Band4   | 1312    | VL            | NT               | 16.77          | 0.009793        | ±2.5        | PASS    |
| Band4   | 1312    | VN            | NT               | 16.79          | 0.009805        | ±2.5        | PASS    |
| Band4   | 1312    | VH            | NT               | 17.02          | 0.009939        | ±2.5        | PASS    |
| Band4   | 1413    | VL            | NT               | -1.97          | -0.001137       | ±2.5        | PASS    |
| Band4   | 1413    | VN            | NT               | -1.93          | -0.001114       | ±2.5        | PASS    |
| Band4   | 1413    | VH            | NT               | -2.02          | -0.001166       | ±2.5        | PASS    |
| Band4   | 1513    | VL            | NT               | -16.21         | -0.009249       | ±2.5        | PASS    |
| Band4   | 1513    | VN            | NT               | -16.14         | -0.009209       | ±2.5        | PASS    |
| Band4   | 1513    | VH            | NT               | -16.26         | -0.009278       | ±2.5        | PASS    |
| Band5   | 4132    | VL            | NT               | 0.87           | 0.001053        | ±2.5        | PASS    |
| Band5   | 4132    | VN            | NT               | 0.71           | 0.000859        | ±2.5        | PASS    |
| Band5   | 4132    | VH            | NT               | 0.65           | 0.000787        | ±2.5        | PASS    |
| Band5   | 4182    | VL            | NT               | -0.09          | -0.000108       | ±2.5        | PASS    |
| Band5   | 4182    | VN            | NT               | -0.16          | -0.000191       | ±2.5        | PASS    |
| Band5   | 4182    | VH            | NT               | -0.31          | -0.000371       | ±2.5        | PASS    |
| Band5   | 4233    | VL            | NT               | -2.66          | -0.003142       | ±2.5        | PASS    |
| Band5   | 4233    | VN            | NT               | -2.43          | -0.002870       | ±2.5        | PASS    |
| Band5   | 4233    | VH            | NT               | -2.54          | -0.003000       | ±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              | 1.86           | 0.001004        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | -20              | 1.94           | 0.001047        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | -10              | 2.12           | 0.001144        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 0                | 2.13           | 0.001150        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 10               | 2.18           | 0.001177        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 20               | 2.27           | 0.001225        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 30               | 2.49           | 0.001344        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 40               | 2.60           | 0.001404        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 50               | 2.50           | 0.001350        | ±2.5        | PASS    |
| Band2       | 9400    | NV            | -30              | -2.55          | -0.001356       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | -20              | -2.67          | -0.001420       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | -10              | -2.44          | -0.001298       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 0                | -2.68          | -0.001426       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 10               | -2.53          | -0.001346       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 20               | -2.96          | -0.001574       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 30               | -2.73          | -0.001452       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 40               | -2.73          | -0.001452       | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 50               | -2.65          | -0.001410       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | -30              | -8.08          | -0.004236       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | -20              | -8.08          | -0.004236       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | -10              | -7.77          | -0.004073       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 0                | -7.54          | -0.003953       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 10               | -7.82          | -0.004099       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 20               | -7.78          | -0.004078       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 30               | -7.86          | -0.004120       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 40               | -8.00          | -0.004194       | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 50               | -7.86          | -0.004120       | ±2.5        | PASS    |
| Band4       | 1312    | NV            | -30              | 17.19          | 0.010039        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | -20              | 17.24          | 0.010068        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | -10              | 17.26          | 0.010079        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 0                | 17.32          | 0.010114        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 10               | 17.19          | 0.010039        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 20               | 17.26          | 0.010079        | ±2.5        | PASS    |



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|       |      |    |     |        |           |      |      |
|-------|------|----|-----|--------|-----------|------|------|
| Band4 | 1312 | NV | 30  | 17.38  | 0.010149  | ±2.5 | PASS |
| Band4 | 1312 | NV | 40  | 16.97  | 0.009910  | ±2.5 | PASS |
| Band4 | 1312 | NV | 50  | 17.16  | 0.010021  | ±2.5 | PASS |
| Band4 | 1413 | NV | -30 | -1.87  | -0.001079 | ±2.5 | PASS |
| Band4 | 1413 | NV | -20 | -1.92  | -0.001108 | ±2.5 | PASS |
| Band4 | 1413 | NV | -10 | -1.81  | -0.001045 | ±2.5 | PASS |
| Band4 | 1413 | NV | 0   | -2.06  | -0.001189 | ±2.5 | PASS |
| Band4 | 1413 | NV | 10  | -1.57  | -0.000906 | ±2.5 | PASS |
| Band4 | 1413 | NV | 20  | -1.85  | -0.001068 | ±2.5 | PASS |
| Band4 | 1413 | NV | 30  | -1.97  | -0.001137 | ±2.5 | PASS |
| Band4 | 1413 | NV | 40  | -2.04  | -0.001177 | ±2.5 | PASS |
| Band4 | 1413 | NV | 50  | -1.78  | -0.001027 | ±2.5 | PASS |
| Band4 | 1513 | NV | -30 | -16.24 | -0.009266 | ±2.5 | PASS |
| Band4 | 1513 | NV | -20 | -16.31 | -0.009306 | ±2.5 | PASS |
| Band4 | 1513 | NV | -10 | -16.42 | -0.009369 | ±2.5 | PASS |
| Band4 | 1513 | NV | 0   | -16.54 | -0.009437 | ±2.5 | PASS |
| Band4 | 1513 | NV | 10  | -16.40 | -0.009358 | ±2.5 | PASS |
| Band4 | 1513 | NV | 20  | -16.39 | -0.009352 | ±2.5 | PASS |
| Band4 | 1513 | NV | 30  | -16.29 | -0.009295 | ±2.5 | PASS |
| Band4 | 1513 | NV | 40  | -16.28 | -0.009289 | ±2.5 | PASS |
| Band4 | 1513 | NV | 50  | -16.27 | -0.009283 | ±2.5 | PASS |
| Band5 | 4132 | NV | -30 | 0.94   | 0.001137  | ±2.5 | PASS |
| Band5 | 4132 | NV | -20 | 0.88   | 0.001065  | ±2.5 | PASS |
| Band5 | 4132 | NV | -10 | 0.93   | 0.001125  | ±2.5 | PASS |
| Band5 | 4132 | NV | 0   | 1.05   | 0.001271  | ±2.5 | PASS |
| Band5 | 4132 | NV | 10  | 1.02   | 0.001234  | ±2.5 | PASS |
| Band5 | 4132 | NV | 20  | 1.04   | 0.001258  | ±2.5 | PASS |
| Band5 | 4132 | NV | 30  | 0.98   | 0.001186  | ±2.5 | PASS |
| Band5 | 4132 | NV | 40  | 1.11   | 0.001343  | ±2.5 | PASS |
| Band5 | 4132 | NV | 50  | 1.10   | 0.001331  | ±2.5 | PASS |
| Band5 | 4182 | NV | -30 | -0.24  | -0.000287 | ±2.5 | PASS |
| Band5 | 4182 | NV | -20 | -0.19  | -0.000227 | ±2.5 | PASS |
| Band5 | 4182 | NV | -10 | -0.21  | -0.000251 | ±2.5 | PASS |
| Band5 | 4182 | NV | 0   | -0.24  | -0.000287 | ±2.5 | PASS |
| Band5 | 4182 | NV | 10  | -0.10  | -0.000120 | ±2.5 | PASS |
| Band5 | 4182 | NV | 20  | -0.36  | -0.000430 | ±2.5 | PASS |
| Band5 | 4182 | NV | 30  | -0.29  | -0.000347 | ±2.5 | PASS |



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|       |      |    |     |       |           |      |      |
|-------|------|----|-----|-------|-----------|------|------|
| Band5 | 4182 | NV | 40  | -0.31 | -0.000371 | ±2.5 | PASS |
| Band5 | 4182 | NV | 50  | -0.18 | -0.000215 | ±2.5 | PASS |
| Band5 | 4233 | NV | -30 | -2.50 | -0.002953 | ±2.5 | PASS |
| Band5 | 4233 | NV | -20 | -2.57 | -0.003036 | ±2.5 | PASS |
| Band5 | 4233 | NV | -10 | -2.54 | -0.003000 | ±2.5 | PASS |
| Band5 | 4233 | NV | 0   | -2.52 | -0.002977 | ±2.5 | PASS |
| Band5 | 4233 | NV | 10  | -2.57 | -0.003036 | ±2.5 | PASS |
| Band5 | 4233 | NV | 20  | -2.75 | -0.003248 | ±2.5 | PASS |
| Band5 | 4233 | NV | 30  | -2.52 | -0.002977 | ±2.5 | PASS |
| Band5 | 4233 | NV | 40  | -2.63 | -0.003107 | ±2.5 | PASS |
| Band5 | 4233 | NV | 50  | -2.47 | -0.002918 | ±2.5 | PASS |

The End



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