



# Appendix B

## WCDMA Band II & IV & V



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## CONTENT

|                                                       |           |
|-------------------------------------------------------|-----------|
| <b>1. EFFECTIVE (ISOTROPIC) RADIATED POWER.....</b>   | <b>6</b>  |
| 1.1. TEST RESULT .....                                | 6         |
| <b>2. PEAK-TO-AVERAGE RATIO(CCDF) .....</b>           | <b>7</b>  |
| 2.1. TEST RESULT .....                                | 7         |
| 2.2. TEST PLOTS .....                                 | 7         |
| <b>3. MODULATION CHARACTERISTICS .....</b>            | <b>12</b> |
| 3.1. TEST BAND = WCDMA BAND II.....                   | 12        |
| 3.1.1. TEST MODE = UMTS/TM1.....                      | 12        |
| 3.1.1.1. TEST CHANNEL = MCH .....                     | 12        |
| 3.2. TEST BAND = WCDMA BAND IV .....                  | 13        |
| 3.2.1. TEST MODE = UMTS/TM1.....                      | 13        |
| 3.2.1.1. TEST CHANNEL = MCH .....                     | 13        |
| 3.3. TEST BAND = WCDMA BAND V .....                   | 14        |
| 3.3.1. TEST MODE = UMTS/TM1.....                      | 14        |
| 3.3.1.1. TEST CHANNEL = MCH .....                     | 14        |
| <b>4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH .....</b> | <b>15</b> |
| 4.1. TEST RESULT .....                                | 15        |
| 4.2. TEST PLOTS .....                                 | 15        |
| <b>5. BAND EDGE COMPLIANCE .....</b>                  | <b>20</b> |
| 5.1. TEST PLOTS .....                                 | 20        |
| <b>6. SPURIOUS EMISSION AT ANTENNA TERMINAL .....</b> | <b>24</b> |
| 6.1. TEST PLOTS .....                                 | 24        |
| <b>7. FIELD STRENGTH OF SPURIOUS RADIATION .....</b>  | <b>34</b> |
| 7.1. Test Band = _WCDMA 2_TM1 ANT3.....               | 34        |
| 7.1.1. Test Channel = Low Channel .....               | 34        |
| 7.2. Test Band = _WCDMA 2_TM1 ANT3.....               | 35        |
| 7.2.1. Test Channel = Low Channel .....               | 35        |
| 7.3. Test Band = _WCDMA 2_TM1 ANT3.....               | 36        |



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|         |                                      |    |
|---------|--------------------------------------|----|
| 7.3.1.  | Test Channel = Mid Channel .....     | 36 |
| 7.4.    | Test Band = _WCDMA 2_ TM1 ANT3 ..... | 37 |
| 7.4.1.  | Test Channel = Mid Channel .....     | 37 |
| 7.5.    | Test Band = _WCDMA 2_ TM1 ANT3 ..... | 38 |
| 7.5.1.  | Test Channel = High Channel .....    | 38 |
| 7.6.    | Test Band = _WCDMA 2_ TM1 ANT3 ..... | 39 |
| 7.6.1.  | Test Channel = High Channel .....    | 39 |
| 7.7.    | Test Band = _WCDMA 4_ TM1 ANT3 ..... | 40 |
| 7.7.1.  | Test Channel = Low Channel .....     | 40 |
| 7.8.    | Test Band = _WCDMA 4_ TM1 ANT3 ..... | 41 |
| 7.8.1.  | Test Channel = Low Channel .....     | 41 |
| 7.9.    | Test Band = _WCDMA 4_ TM1 ANT3 ..... | 42 |
| 7.9.1.  | Test Channel = Mid Channel .....     | 42 |
| 7.10.   | Test Band = _WCDMA 4_ TM1 ANT3 ..... | 43 |
| 7.10.1. | Test Channel = Mid Channel .....     | 43 |
| 7.11.   | Test Band = _WCDMA 4_ TM1 ANT3 ..... | 44 |
| 7.11.1. | Test Channel = High Channel .....    | 44 |
| 7.12.   | Test Band = _WCDMA 4_ TM1 ANT3 ..... | 45 |
| 7.12.1. | Test Channel = High Channel .....    | 45 |
| 7.13.   | Test Band = _WCDMA 5_ TM1 ANT0 ..... | 46 |
| 7.13.1. | Test Channel = Low Channel .....     | 46 |
| 7.14.   | Test Band = _WCDMA 5_ TM1 ANT0 ..... | 47 |
| 7.14.1. | Test Channel = Low Channel .....     | 47 |
| 7.15.   | Test Band = _WCDMA 5_ TM1 ANT0 ..... | 48 |
| 7.15.1. | Test Channel = Mid Channel .....     | 48 |
| 7.16.   | Test Band = _WCDMA 5_ TM1 ANT0 ..... | 49 |
| 7.16.1. | Test Channel = Mid Channel .....     | 49 |
| 7.17.   | Test Band = _WCDMA 5_ TM1 ANT0 ..... | 50 |
| 7.17.1. | Test Channel = High Channel .....    | 50 |
| 7.18.   | Test Band = _WCDMA 5_ TM1 ANT0 ..... | 51 |
| 7.18.1. | Test Channel = High Channel .....    | 51 |
| 7.19.   | Test Band = _WCDMA 2_ TM1 ANT4 ..... | 52 |
| 7.19.1. | Test Channel = Low Channel .....     | 52 |
| 7.20.   | Test Band = _WCDMA 2_ TM1 ANT4 ..... | 53 |



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|         |                                    |    |
|---------|------------------------------------|----|
| 7.20.1. | Test Channel = Low Channel.....    | 53 |
| 7.21.   | Test Band = _WCDMA 2_TM1 ANT4..... | 54 |
| 7.21.1. | Test Channel = Mid Channel .....   | 54 |
| 7.22.   | Test Band = _WCDMA 2_TM1 ANT4..... | 55 |
| 7.22.1. | Test Channel = Mid Channel .....   | 55 |
| 7.23.   | Test Band = _WCDMA 2_TM1 ANT4..... | 56 |
| 7.23.1. | Test Channel = High Channel.....   | 56 |
| 7.24.   | Test Band = _WCDMA 2_TM1 ANT4..... | 57 |
| 7.24.1. | Test Channel = High Channel.....   | 57 |
| 7.25.   | Test Band = _WCDMA 4_TM1 ANT4..... | 58 |
| 7.25.1. | Test Channel = Low Channel.....    | 58 |
| 7.26.   | Test Band = _WCDMA 4_TM1 ANT4..... | 59 |
| 7.26.1. | Test Channel = Low Channel.....    | 59 |
| 7.27.   | Test Band = _WCDMA 4_TM1 ANT4..... | 60 |
| 7.27.1. | Test Channel = Mid Channel .....   | 60 |
| 7.28.   | Test Band = _WCDMA 4_TM1 ANT4..... | 61 |
| 7.28.1. | Test Channel = Mid Channel .....   | 61 |
| 7.29.   | Test Band = _WCDMA 4_TM1 ANT4..... | 62 |
| 7.29.1. | Test Channel = High Channel.....   | 62 |
| 7.30.   | Test Band = _WCDMA 4_TM1 ANT4..... | 63 |
| 7.30.1. | Test Channel = High Channel.....   | 63 |
| 7.31.   | Test Band = _WCDMA 5_TM1 ANT1..... | 64 |
| 7.31.1. | Test Channel = Low Channel.....    | 64 |
| 7.32.   | Test Band = _WCDMA 5_TM1 ANT1..... | 65 |
| 7.32.1. | Test Channel = Low Channel.....    | 65 |
| 7.33.   | Test Band = _WCDMA 5_TM1 ANT1..... | 66 |
| 7.33.1. | Test Channel = Mid Channel .....   | 66 |
| 7.34.   | Test Band = _WCDMA 5_TM1 ANT1..... | 67 |
| 7.34.1. | Test Channel = Mid Channel .....   | 67 |
| 7.35.   | Test Band = _WCDMA 5_TM1 ANT1..... | 68 |
| 7.35.1. | Test Channel = High Channel.....   | 68 |
| 7.36.   | Test Band = _WCDMA 5_TM1 ANT1..... | 69 |
| 7.36.1. | Test Channel = High Channel.....   | 69 |

## 8. FREQUENCY STABILITY ..... 70



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|      |                                |    |
|------|--------------------------------|----|
| 8.1. | FREQUENCY VS VOLTAGE .....     | 70 |
| 8.2. | FREQUENCY VS TEMPERATURE ..... | 71 |



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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

#### ANT3:

| Band    | Channel | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|---------|---------|-----------------------|------------|------------|---------|
| Band II | 9262    | 21.25                 | 20.35      | 33.00      | PASS    |
| Band II | 9400    | 21.35                 | 20.45      | 33.00      | PASS    |
| Band II | 9538    | 21.27                 | 20.37      | 33.00      | PASS    |
| Band IV | 1312    | 20.93                 | 19.93      | 30.00      | PASS    |
| Band IV | 1413    | 20.81                 | 19.81      | 30.00      | PASS    |
| Band IV | 1513    | 20.87                 | 19.87      | 30.00      | PASS    |

#### ANT0:

| Band   | Channel | Conducted Power (dBm) | ERP (dBm) | Limit(dBm) | Verdict |
|--------|---------|-----------------------|-----------|------------|---------|
| Band V | 4132    | 23.61                 | 17.16     | 38.45      | PASS    |
| Band V | 4182    | 23.55                 | 17.1      | 38.45      | PASS    |
| Band V | 4233    | 23.62                 | 17.17     | 38.45      | PASS    |

#### ANT4:

| Band    | Channel | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|---------|---------|-----------------------|------------|------------|---------|
| Band II | 9262    | 22.77                 | 21.47      | 33.00      | PASS    |
| Band II | 9400    | 22.86                 | 21.56      | 33.00      | PASS    |
| Band II | 9538    | 22.90                 | 21.6       | 33.00      | PASS    |
| Band IV | 1312    | 23.54                 | 22.44      | 30.00      | PASS    |
| Band IV | 1413    | 23.38                 | 22.28      | 30.00      | PASS    |
| Band IV | 1513    | 23.53                 | 22.43      | 30.00      | PASS    |

#### ANT1:

| Band   | Channel | Conducted Power (dBm) | ERP (dBm) | Limit(dBm) | Verdict |
|--------|---------|-----------------------|-----------|------------|---------|
| Band V | 4132    | 23.87                 | 18.82     | 38.45      | PASS    |
| Band V | 4182    | 23.85                 | 18.8      | 38.45      | PASS    |
| Band V | 4233    | 23.93                 | 18.88     | 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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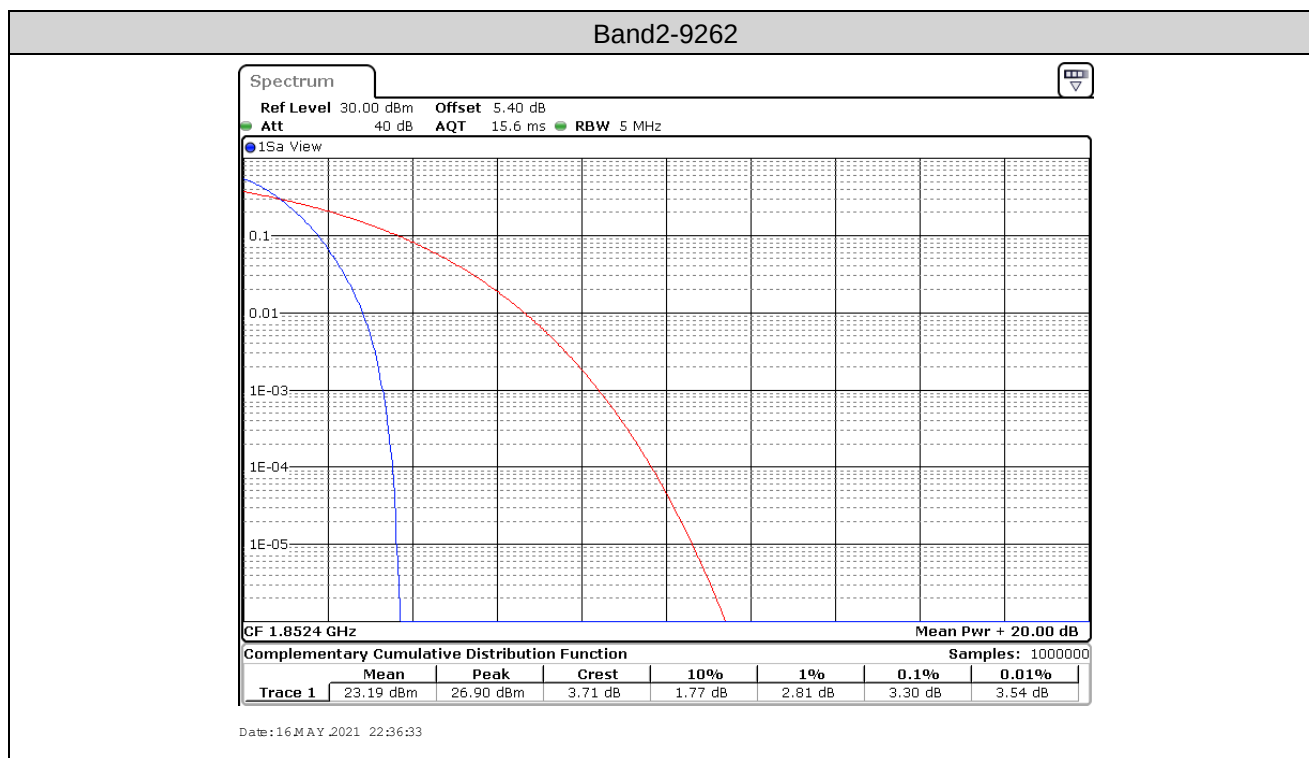


## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------------------------|-----------|---------|
| Band2 | 9262    | 3.3                       | 13        | PASS    |
| Band2 | 9400    | 3.33                      | 13        | PASS    |
| Band2 | 9538    | 3.19                      | 13        | PASS    |
| Band4 | 1312    | 3.07                      | 13        | PASS    |
| Band4 | 1413    | 3.16                      | 13        | PASS    |
| Band4 | 1513    | 3.22                      | 13        | PASS    |
| Band5 | 4132    | 3.16                      | 13        | PASS    |
| Band5 | 4182    | 3.28                      | 13        | PASS    |
| Band5 | 4233    | 3.28                      | 13        | PASS    |

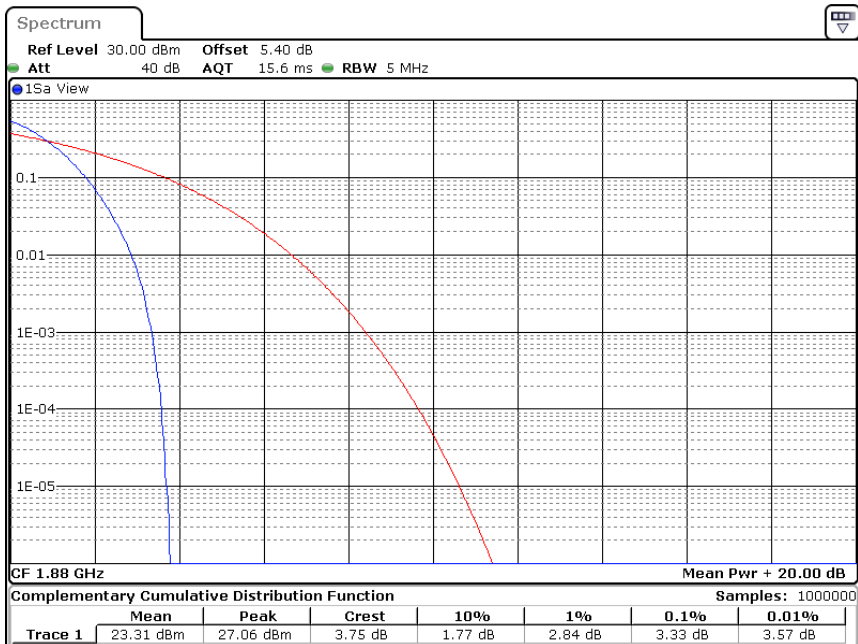
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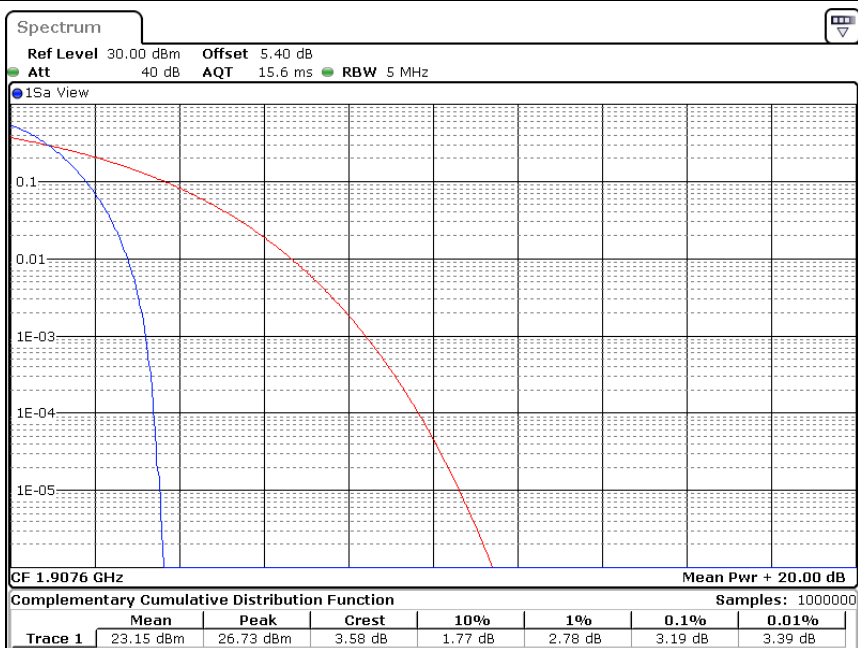
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## Band2-9400



Date: 16 MAY 2021 22:36:49

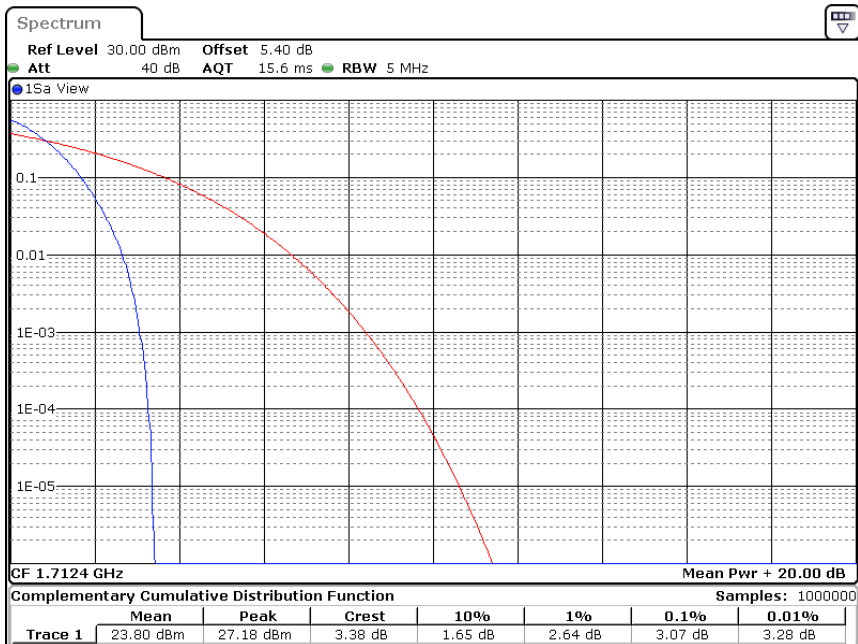
## Band2-9538



Date: 16 MAY 2021 22:37:05

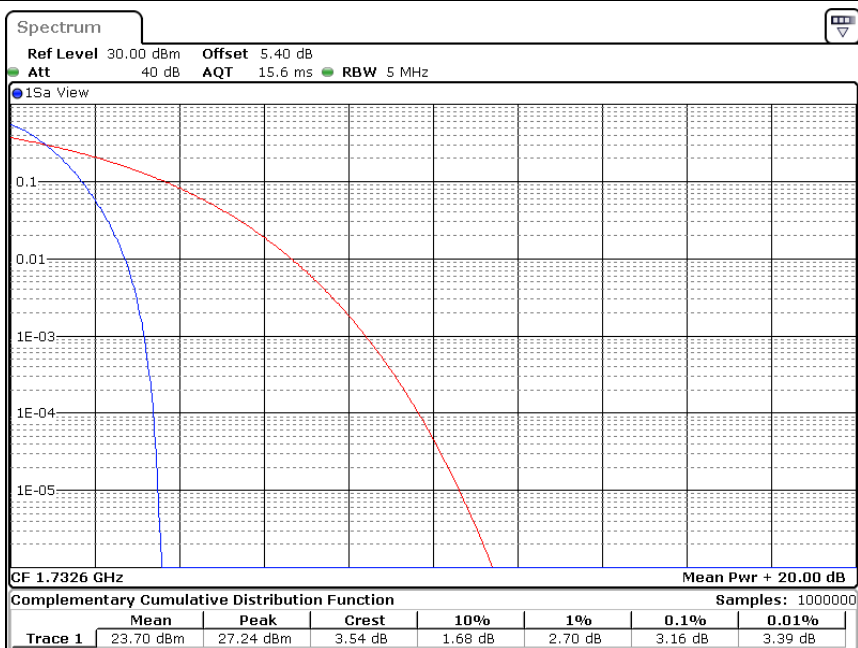


## Band4-1312



Date: 16 MAY 2021 22:44:41

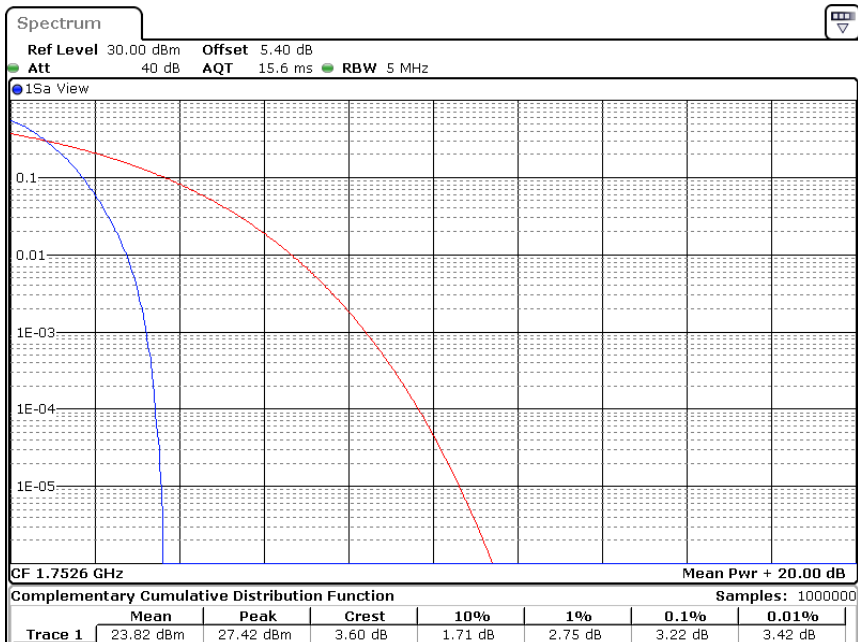
## Band4-1413



Date: 16 MAY 2021 22:44:57

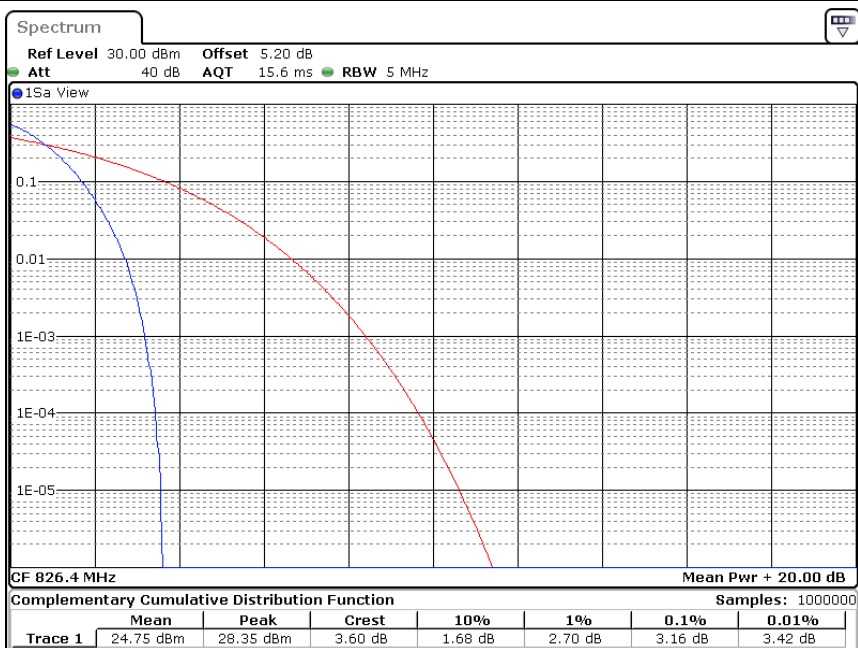


## Band4-1513



Date: 16 MAY 2021 22:45:13

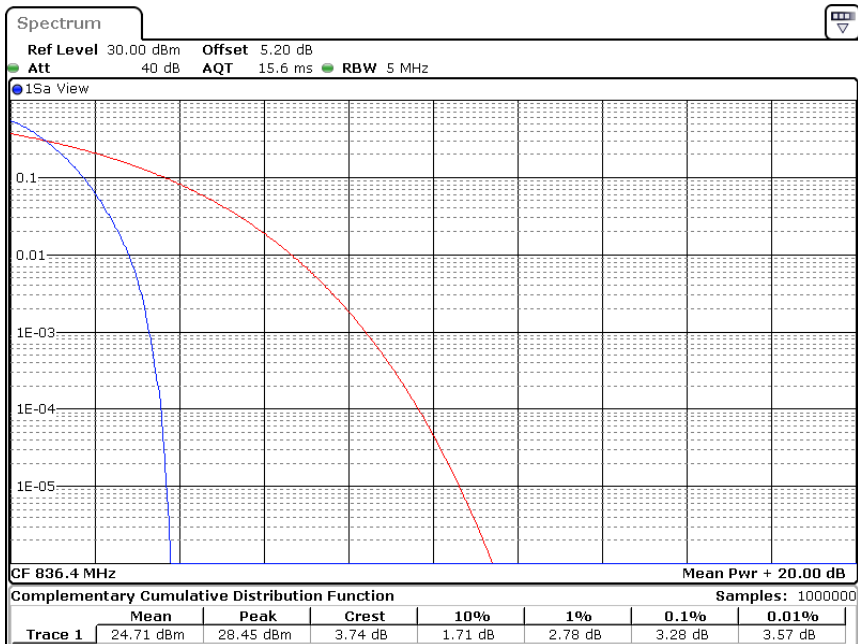
## Band5-4132



Date: 16 MAY 2021 22:28:00

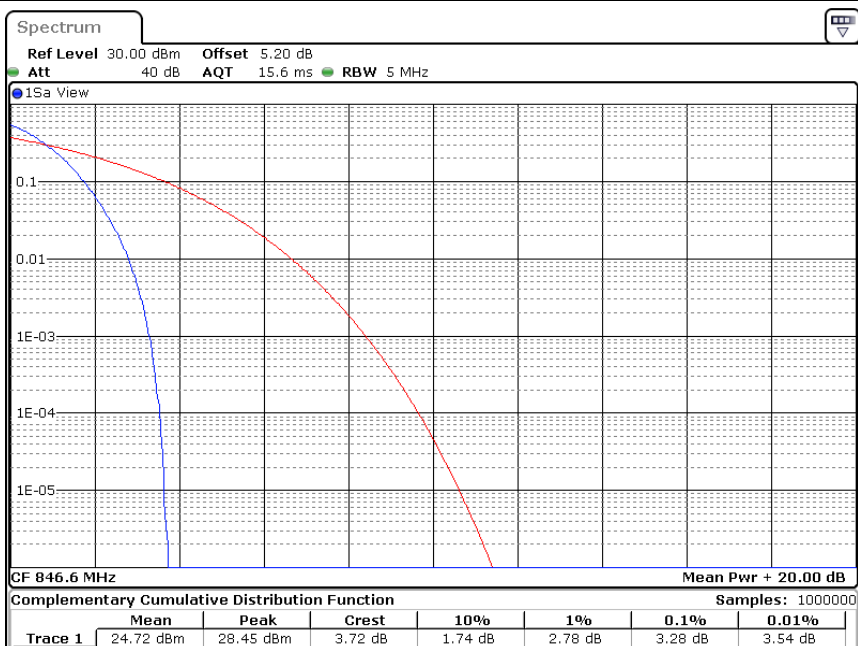


## Band5-4182



Date: 16 MAY 2021 22:28:16

## Band5-4233



Date: 16 MAY 2021 22:28:32

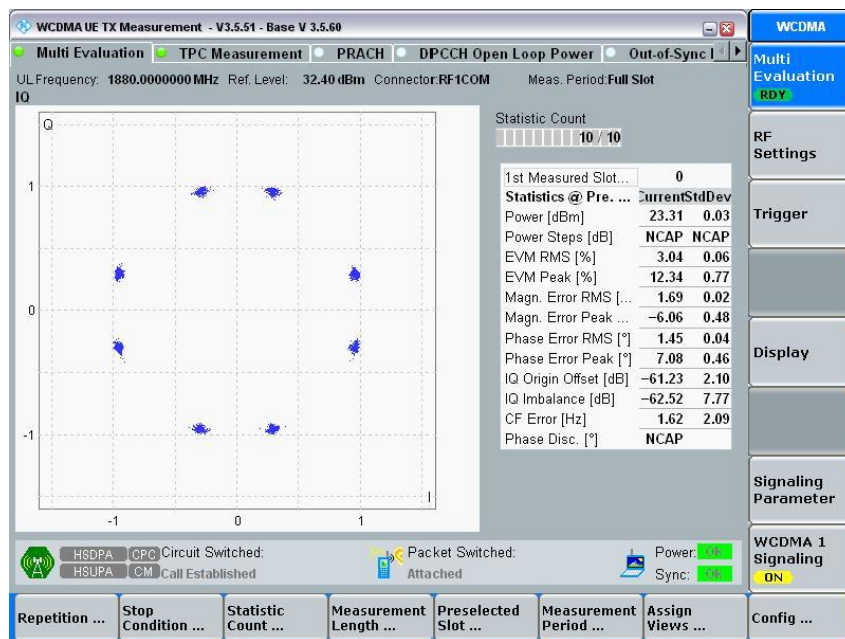


### 3. Modulation Characteristics

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

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

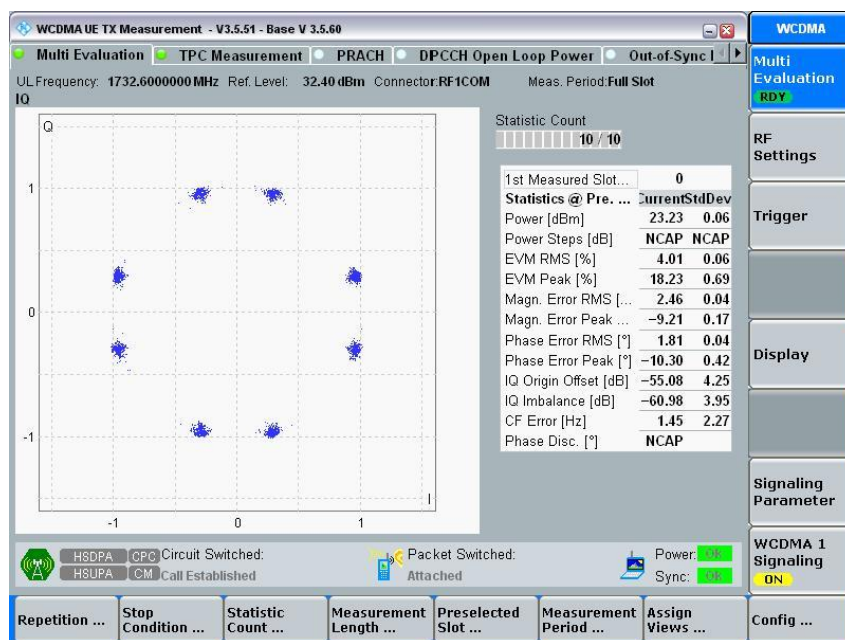
##### 3.1.1.1. Test Channel = MCH



## 3.2. Test Band = WCDMA Band IV

### 3.2.1. Test Mode = UMTS/TM1

#### 3.2.1.1. Test Channel = MCH

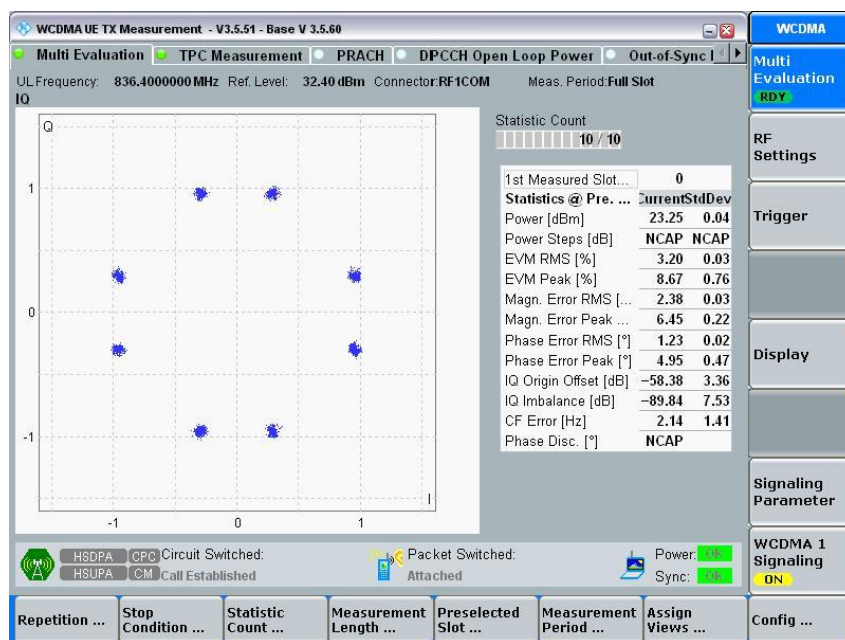


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### 3.3. Test Band = WCDMA Band V

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

##### 3.3.1.1. Test Channel = MCH



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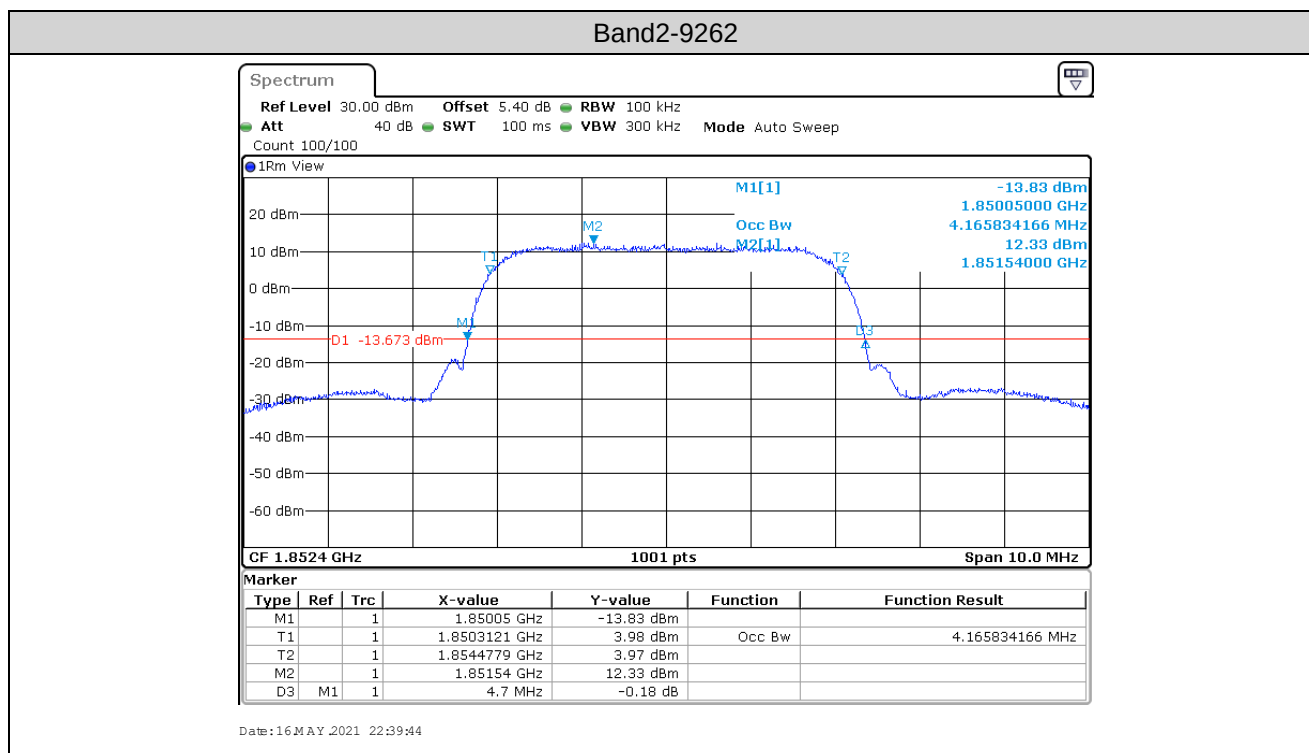


## 4. 26dB Bandwidth and Occupied Bandwidth

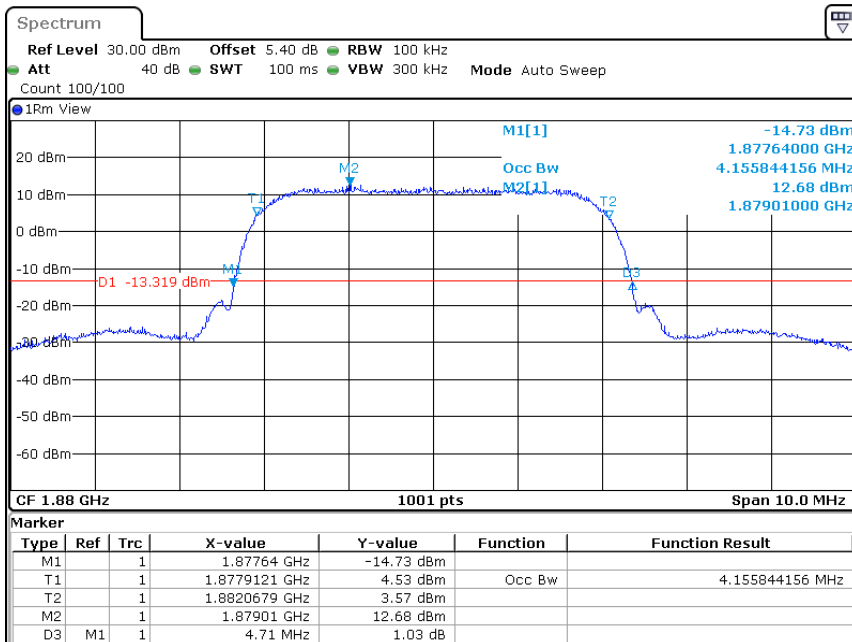
### 4.1. Test Result

| Band  | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit(MHz) | Verdict |
|-------|---------|--------------------------|----------------------|------------|---------|
| Band2 | 9262    | 4.166                    | 4.700                | ---        | PASS    |
| Band2 | 9400    | 4.156                    | 4.710                | ---        | PASS    |
| Band2 | 9538    | 4.156                    | 4.710                | ---        | PASS    |
| Band4 | 1312    | 4.166                    | 4.720                | ---        | PASS    |
| Band4 | 1413    | 4.166                    | 4.710                | ---        | PASS    |
| Band4 | 1513    | 4.166                    | 4.720                | ---        | PASS    |
| Band5 | 4132    | 4.156                    | 4.730                | ---        | PASS    |
| Band5 | 4182    | 4.166                    | 4.720                | ---        | PASS    |
| Band5 | 4233    | 4.176                    | 4.720                | ---        | PASS    |

### 4.2. Test Plots

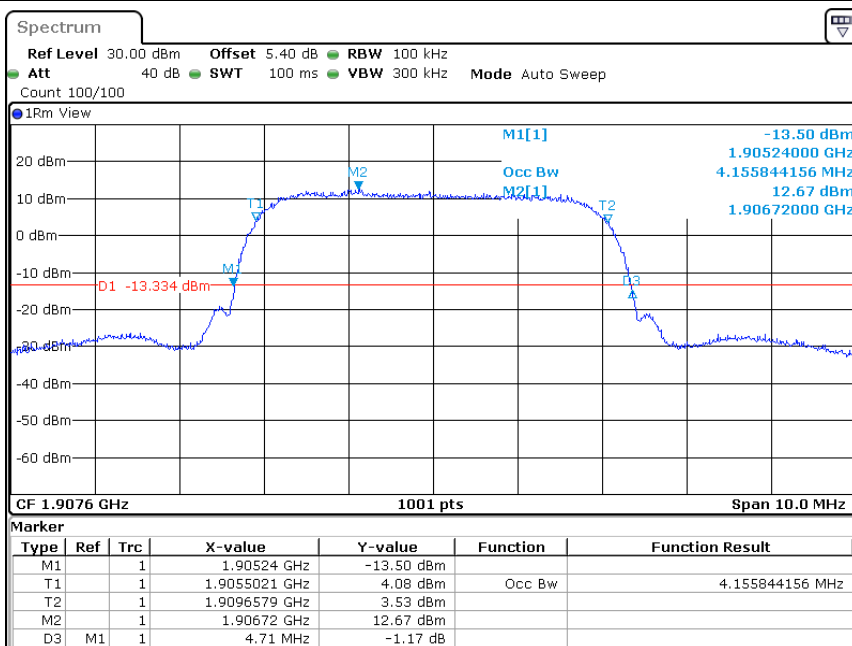


## Band2-9400



Date: 16 MAY 2021 22:40:08

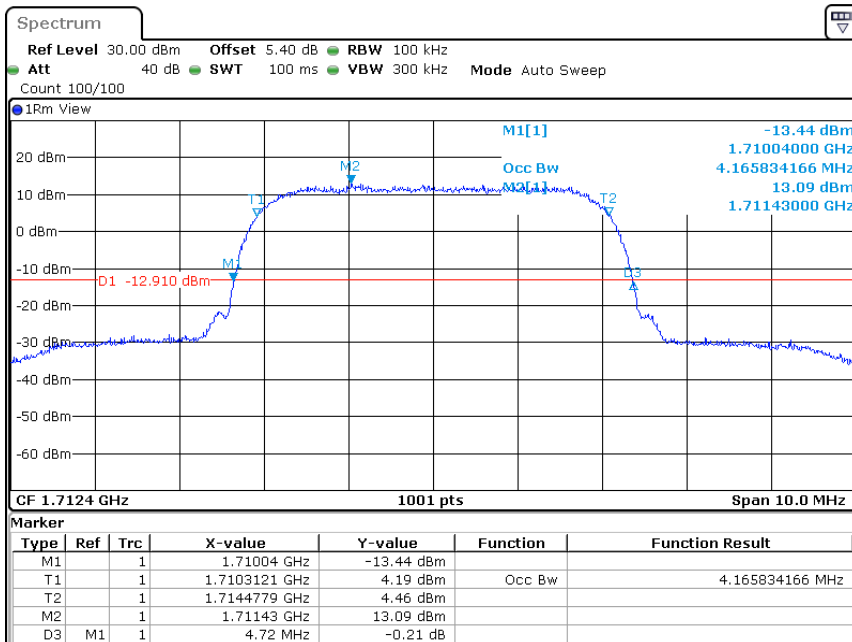
## Band2-9538



Date: 16 MAY 2021 22:40:33

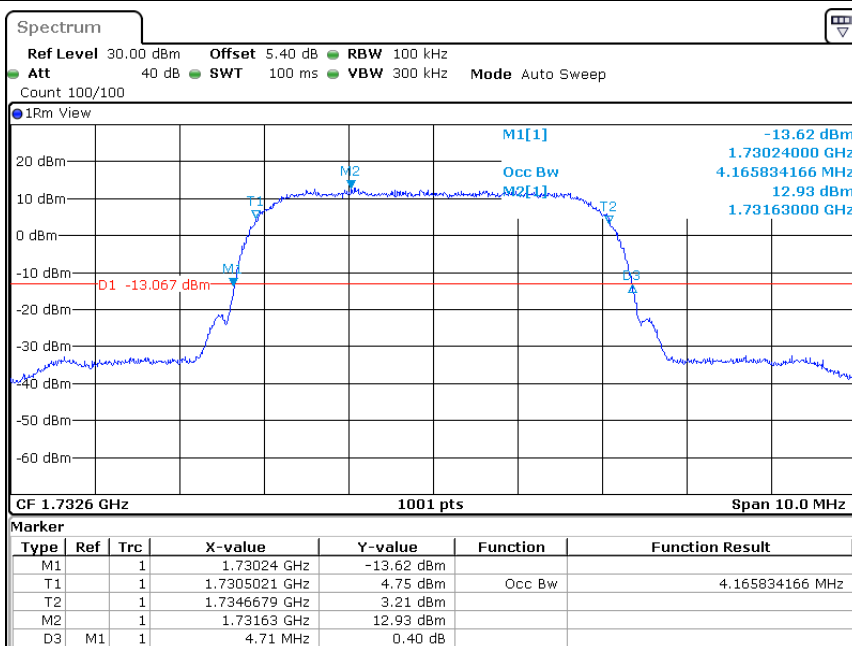


## Band4-1312



Date: 16 MAY 2021 22:47:52

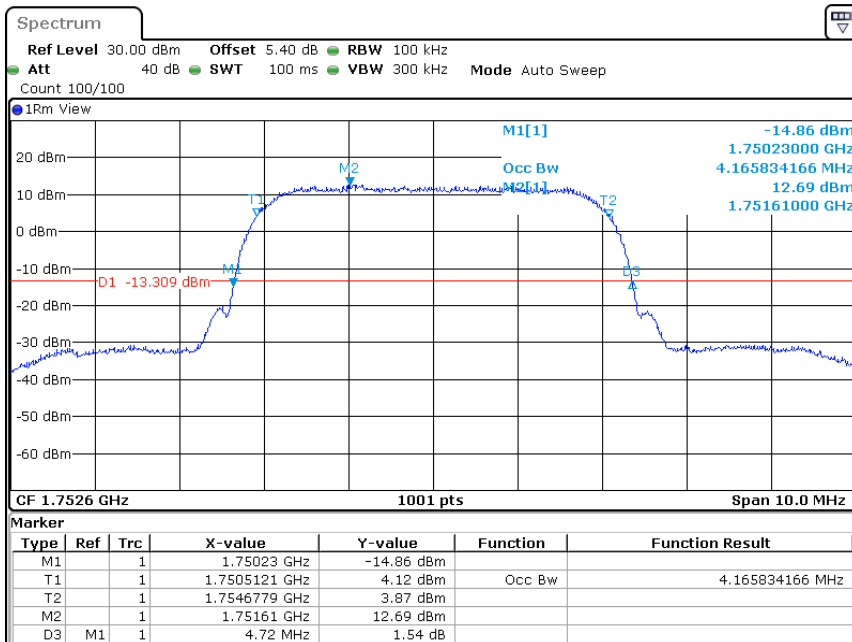
## Band4-1413



Date: 16 MAY 2021 22:48:16

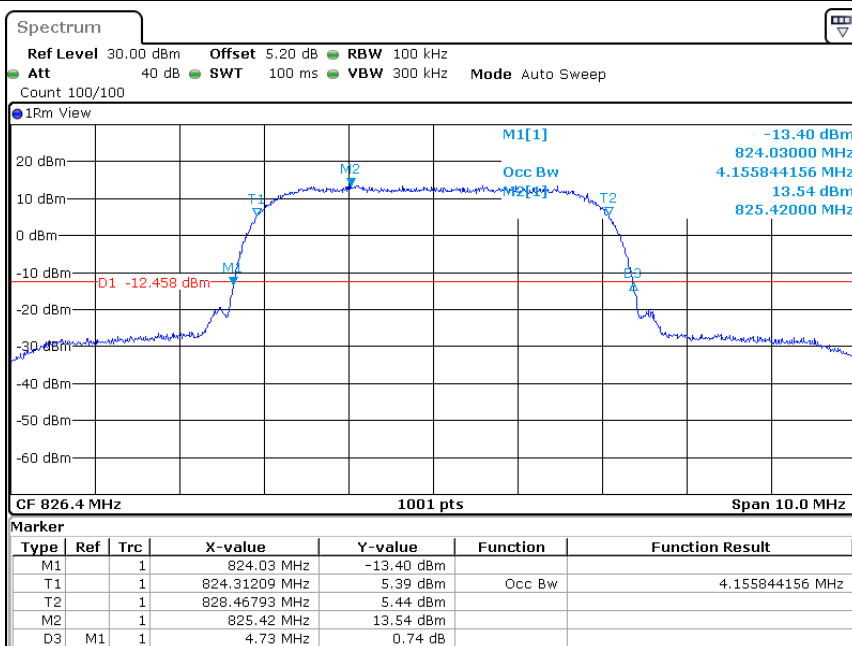


## Band4-1513



Date: 16 MAY 2021 22:48:41

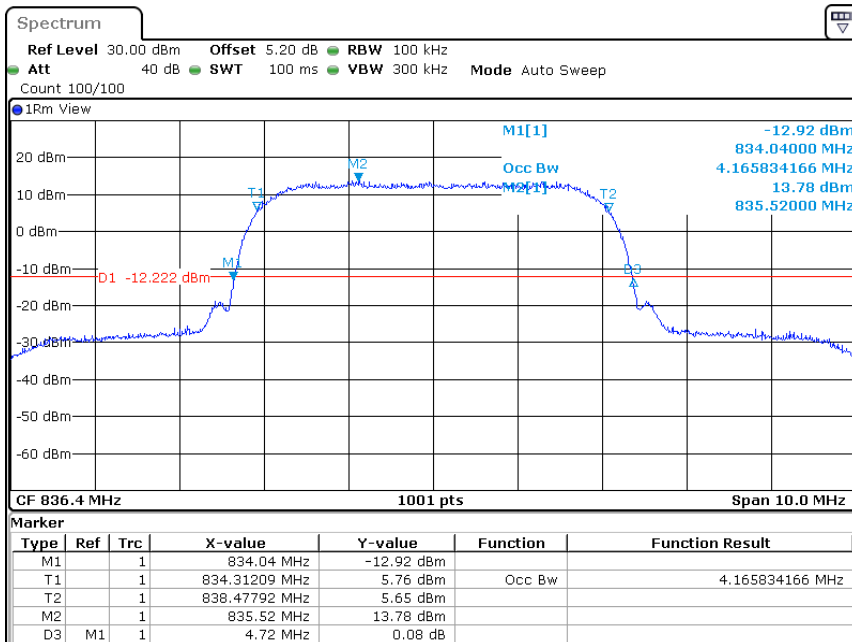
## Band5-4132



Date: 16 MAY 2021 22:31:11

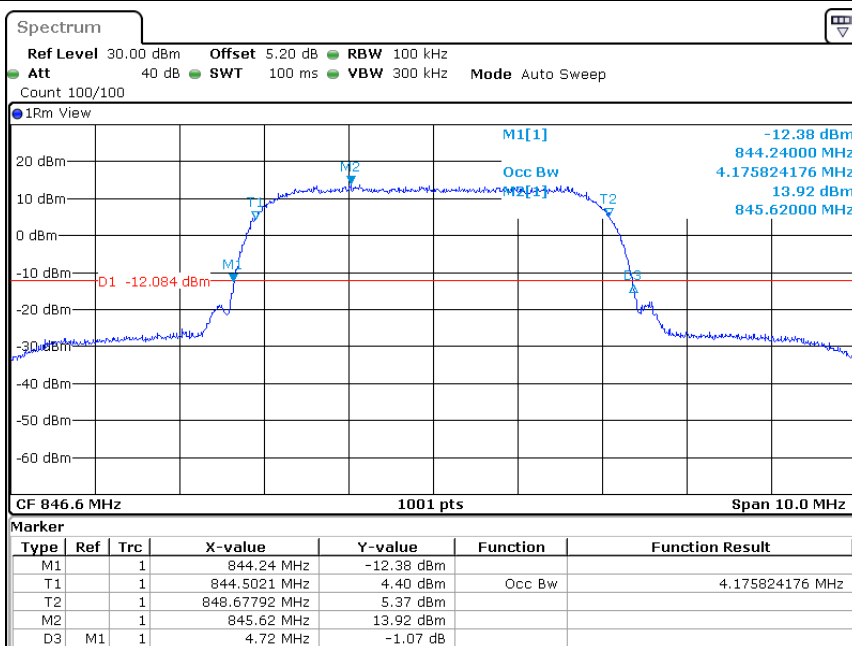


## Band5-4182



Date: 16 MAY 2021 22:31:36

## Band5-4233

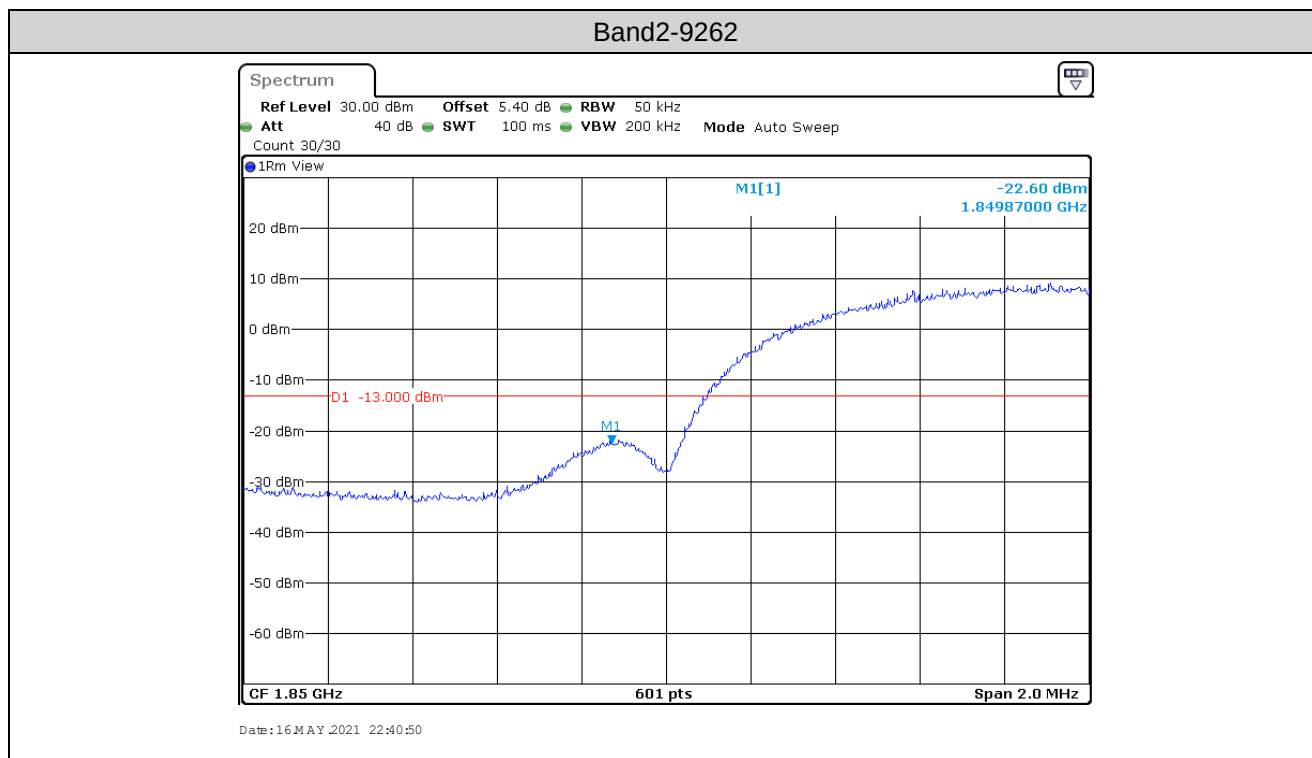


Date: 16 MAY 2021 22:32:00



## 5. Band Edge Compliance

### 5.1. Test Plots



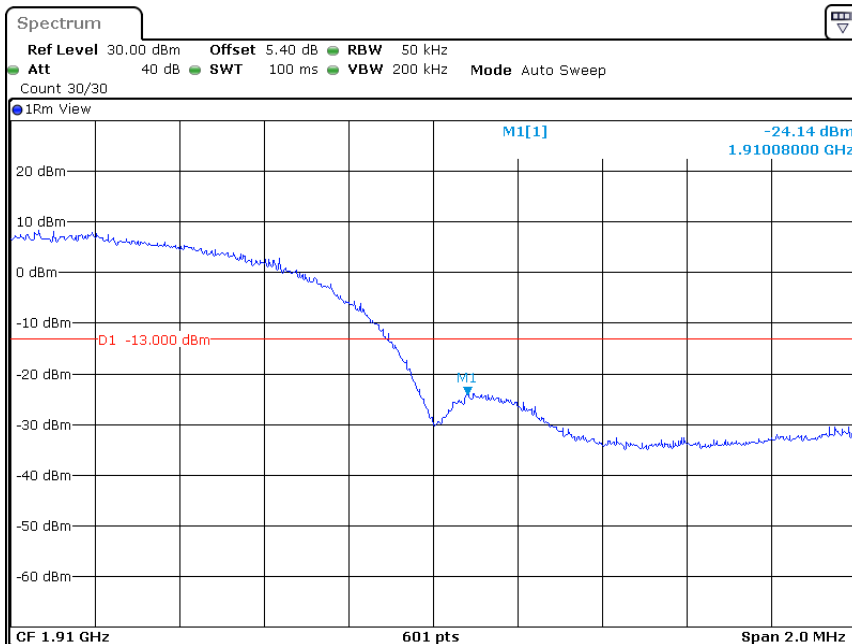
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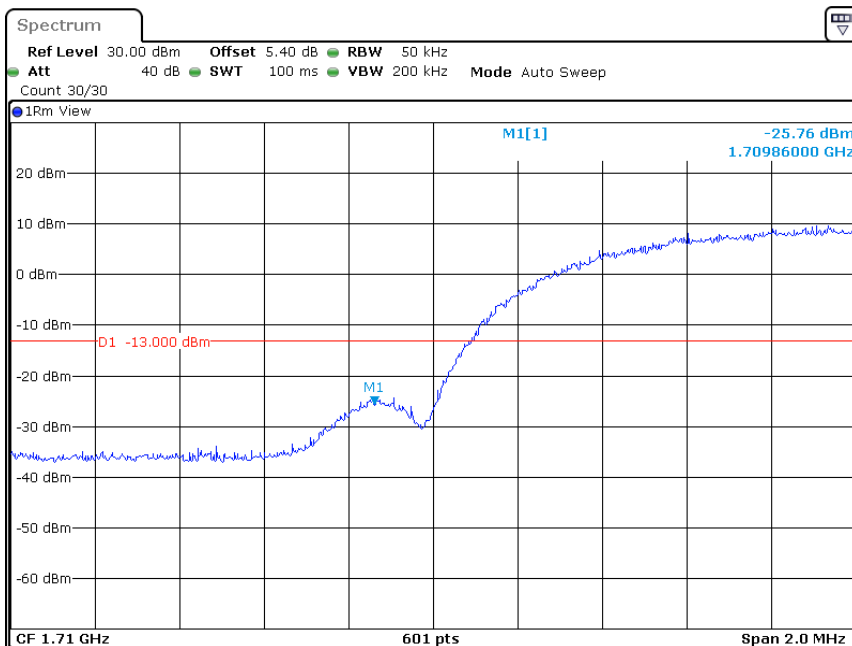
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Band2-9538



Date: 16 MAY 2021 22:41:06

Band4-1312



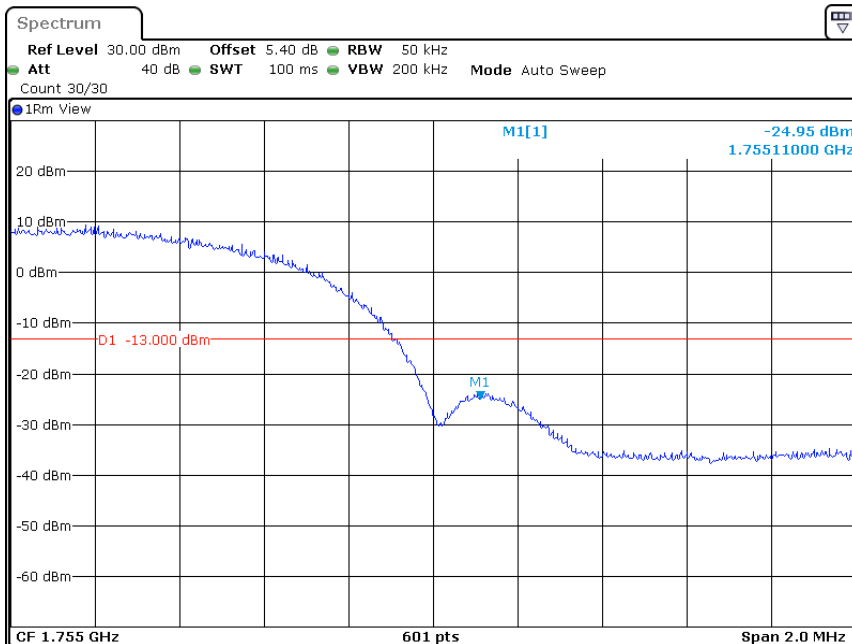
Date: 16 MAY 2021 22:48:58



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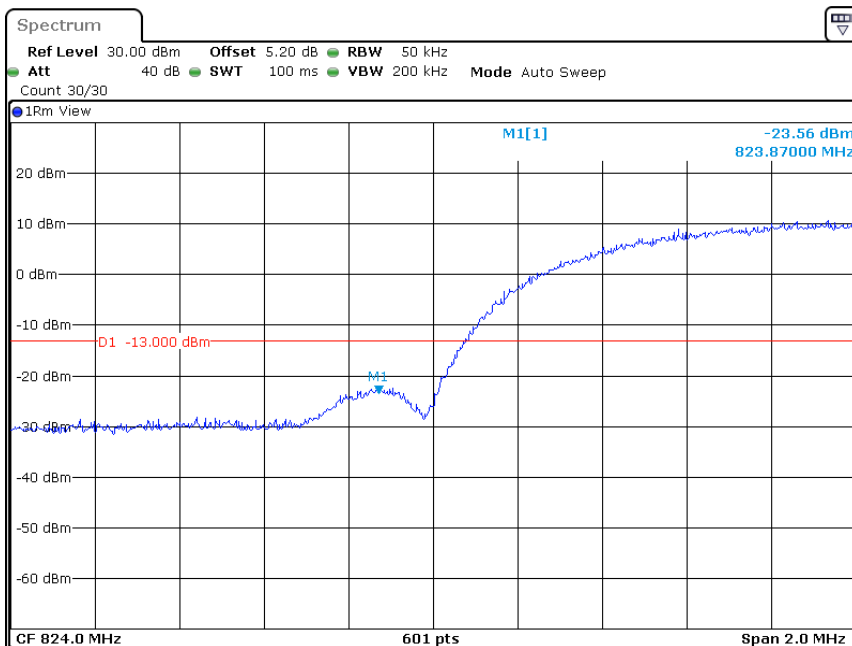
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## Band4-1513



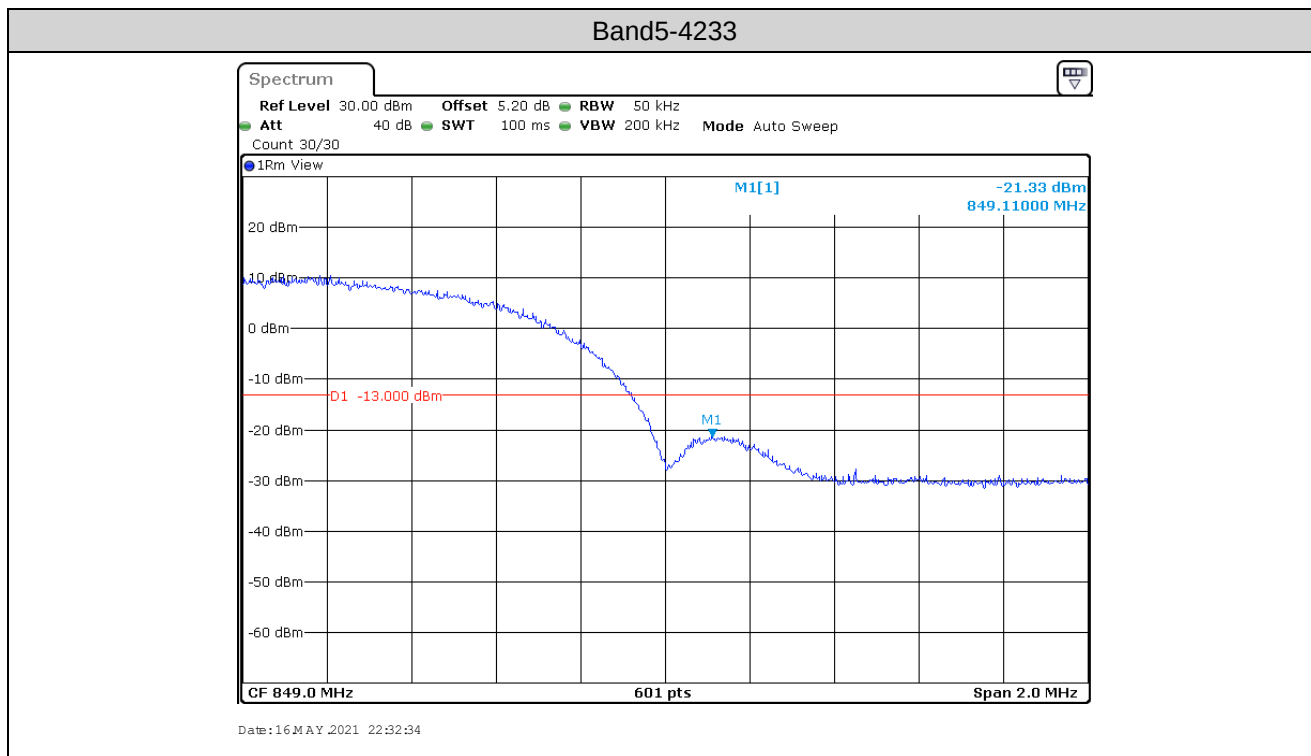
Date: 16 MAY 2021 22:49:14

## Band5-4132



Date: 16 MAY 2021 22:32:17





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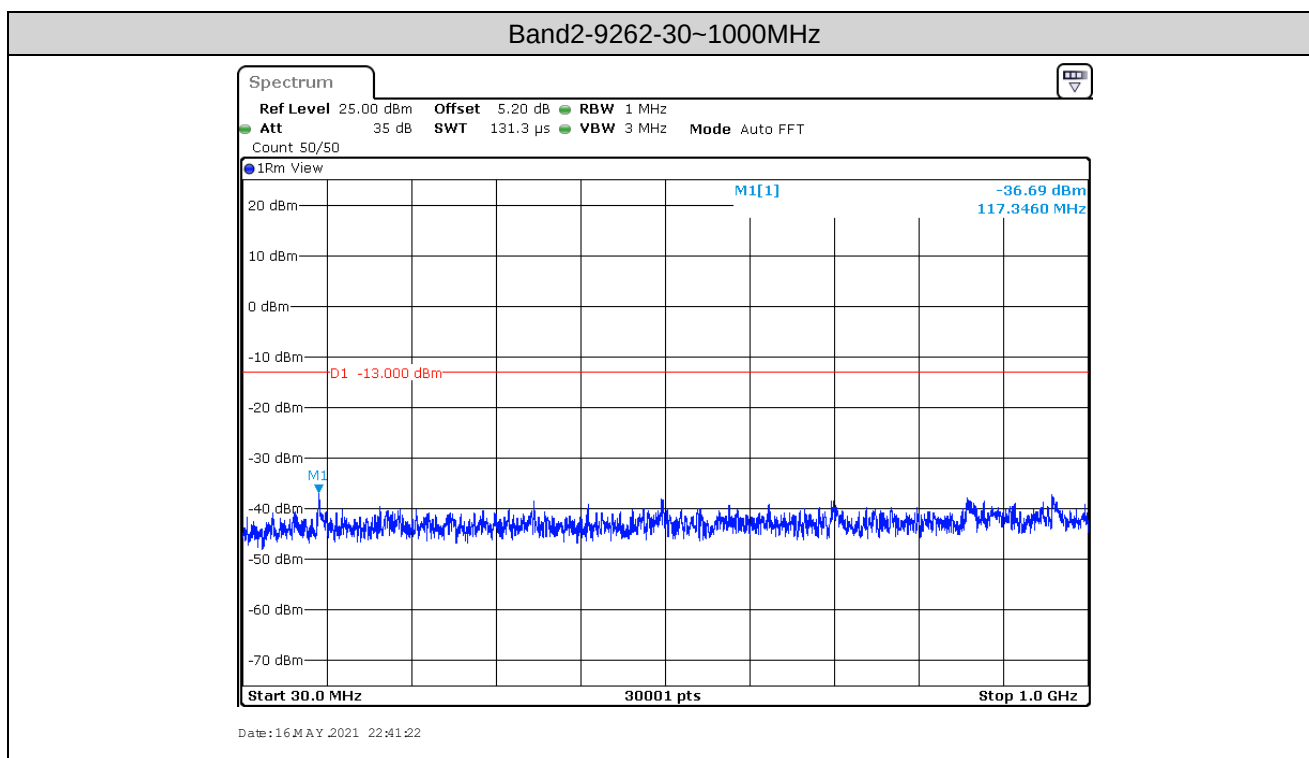


## 6. Spurious Emission at Antenna Terminal

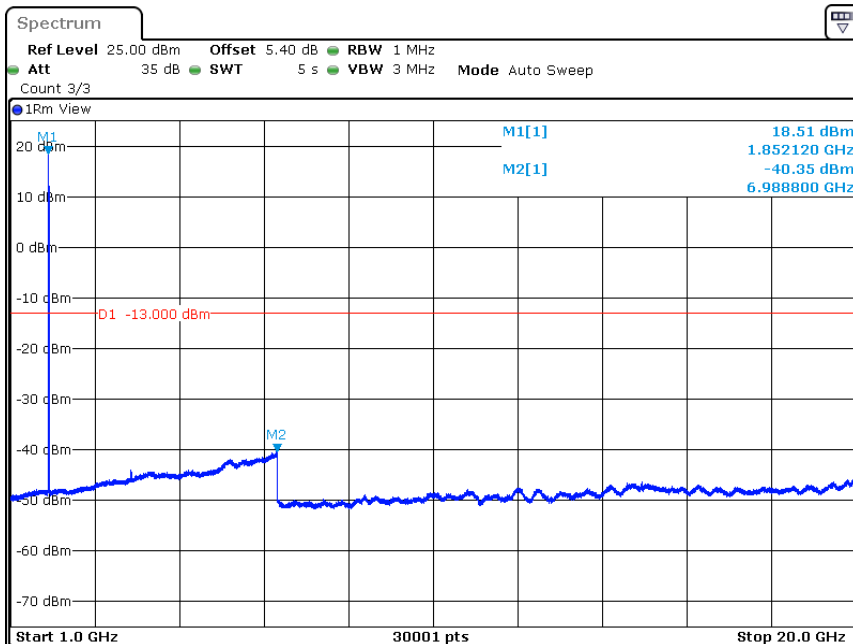
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points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

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

### 6.1. Test Plots

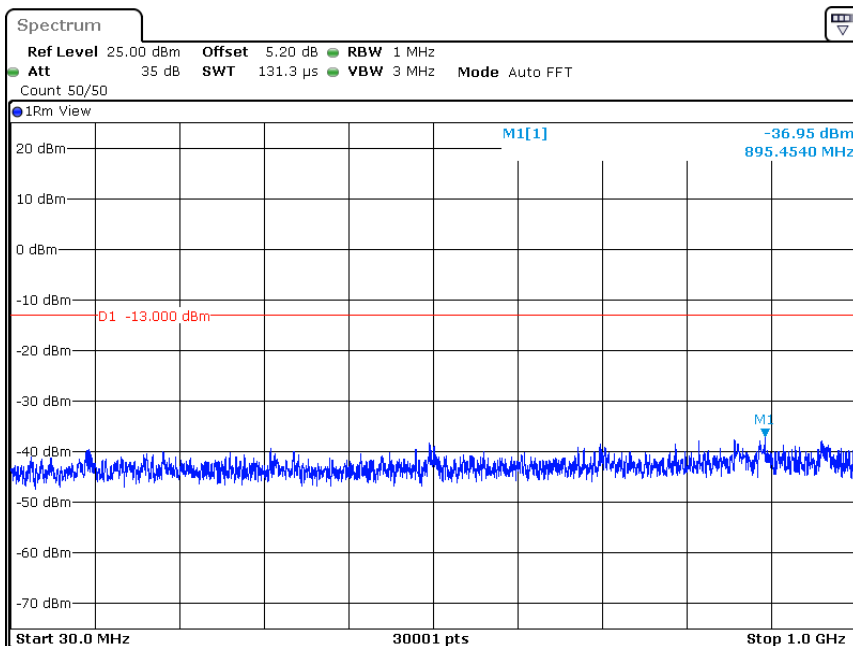


## Band2-9262-1000~20000MHz



Date: 16 MAY 2021 22:41:50

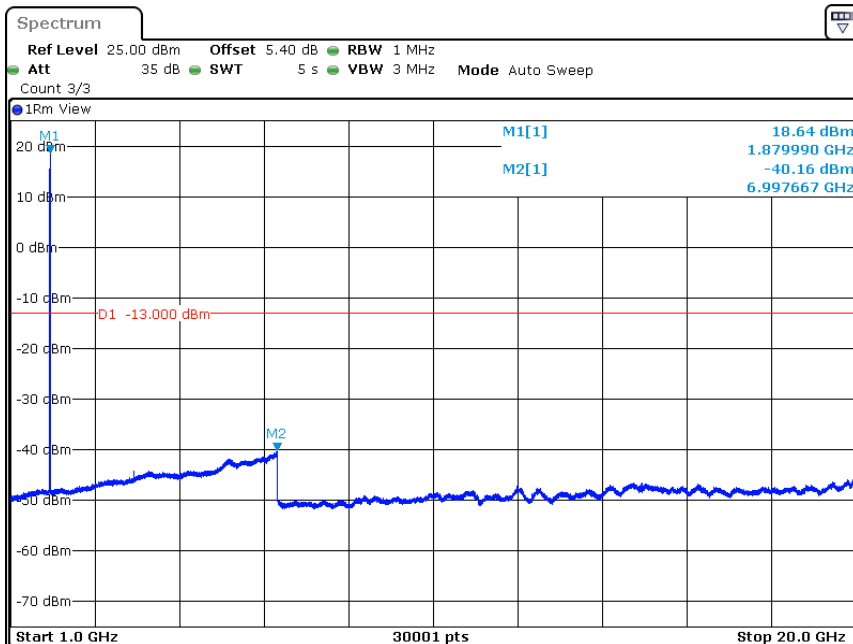
## Band2-9400-30~1000MHz



Date: 16 MAY 2021 22:42:06

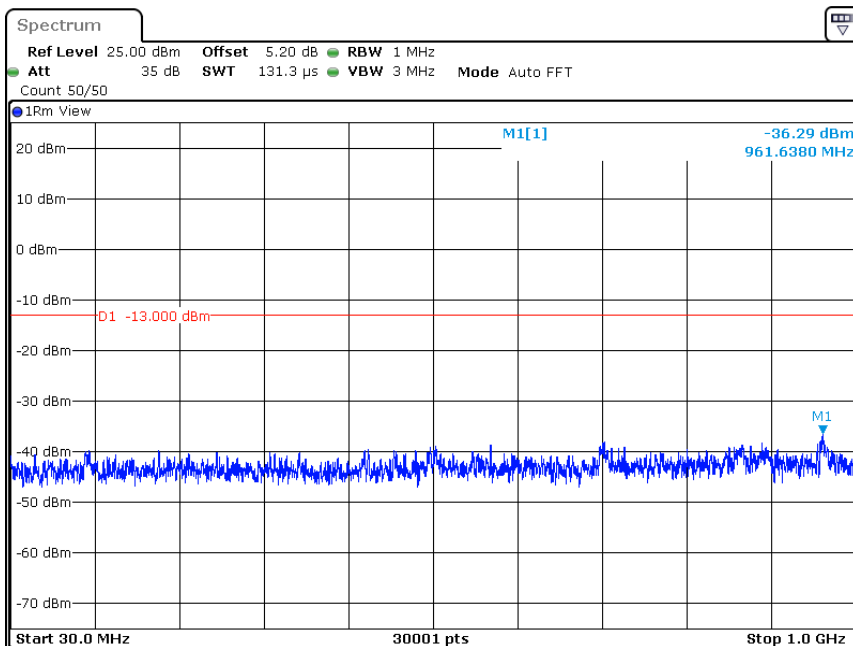


**Band2-9400-1000~20000MHz**



Date: 16 MAY 2021 22:42:31

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



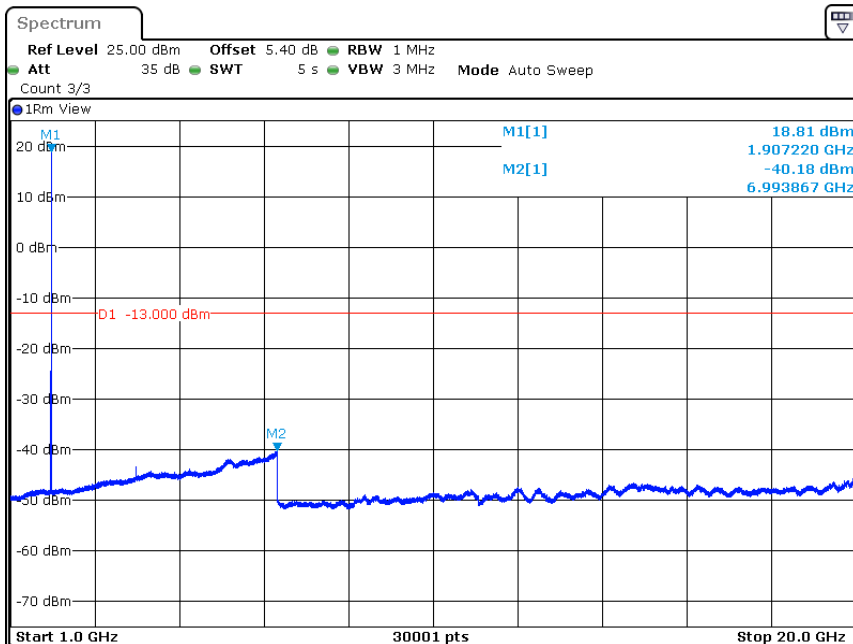
Date: 16 MAY 2021 22:42:47



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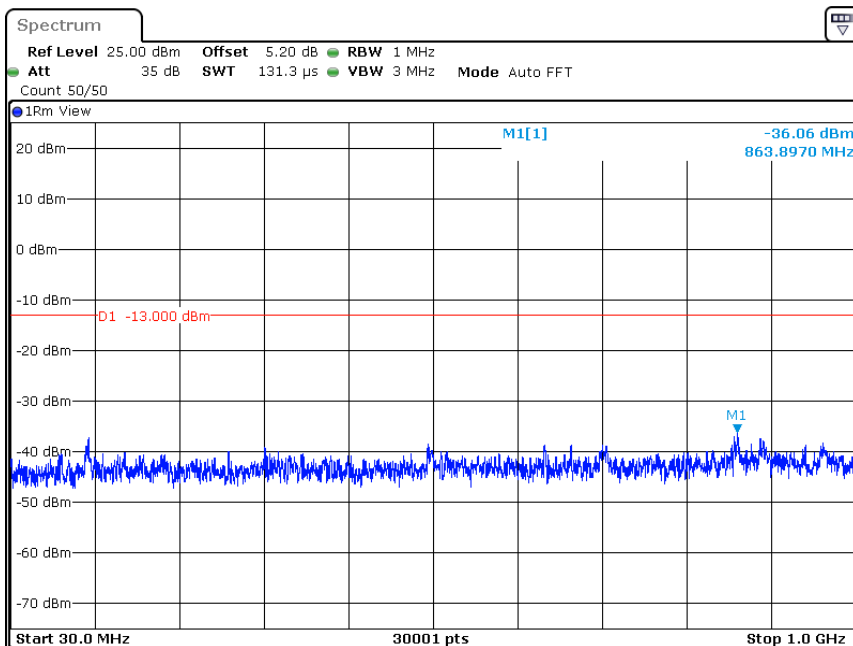
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## Band2-9538-1000~20000MHz



Date: 16 MAY 2021 22:43:13

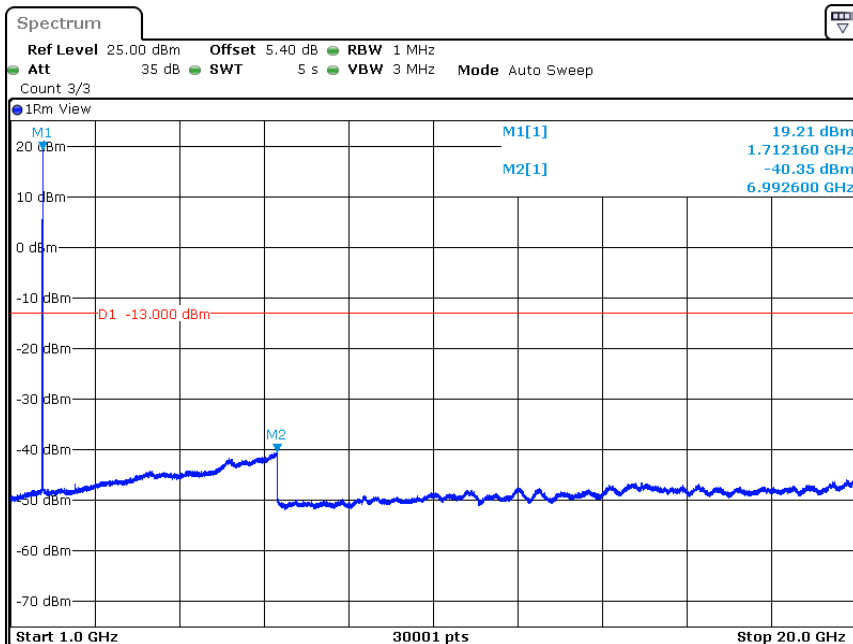
## Band4-1312-30~1000MHz



Date: 16 MAY 2021 22:52:09

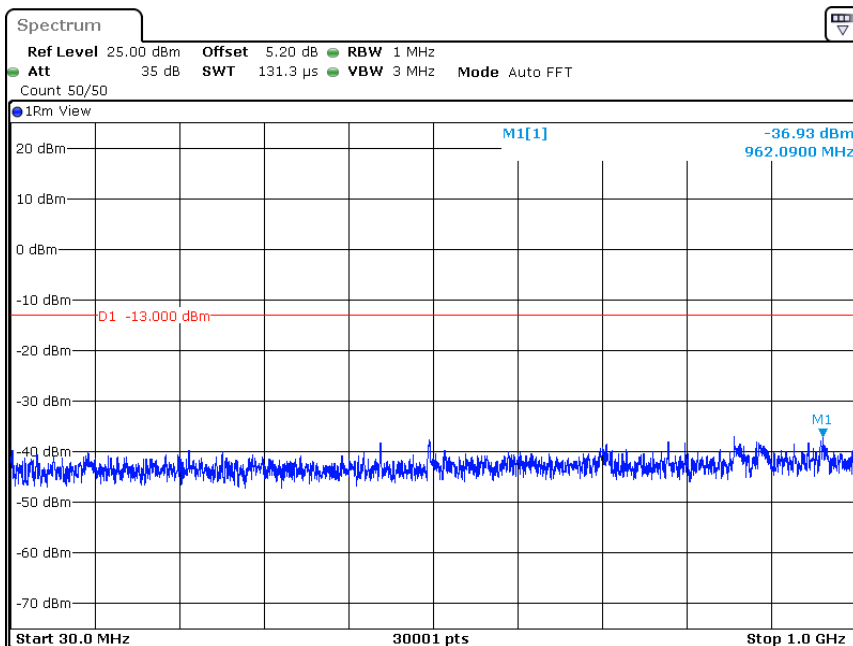


**Band4-1312-1000~20000MHz**



Date: 16 MAY 2021 22:52:35

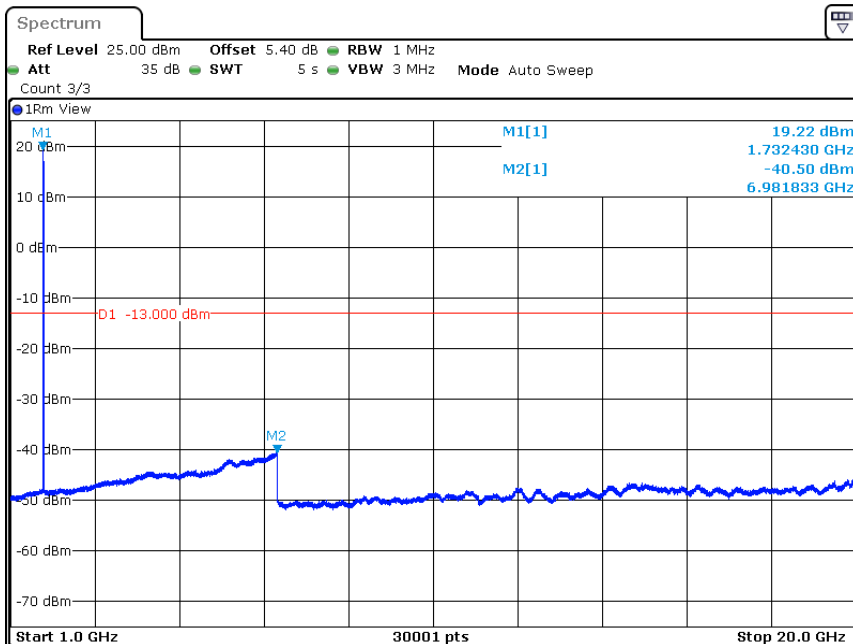
**Band4-1413-30~1000MHz**



Date: 16 MAY 2021 22:52:50

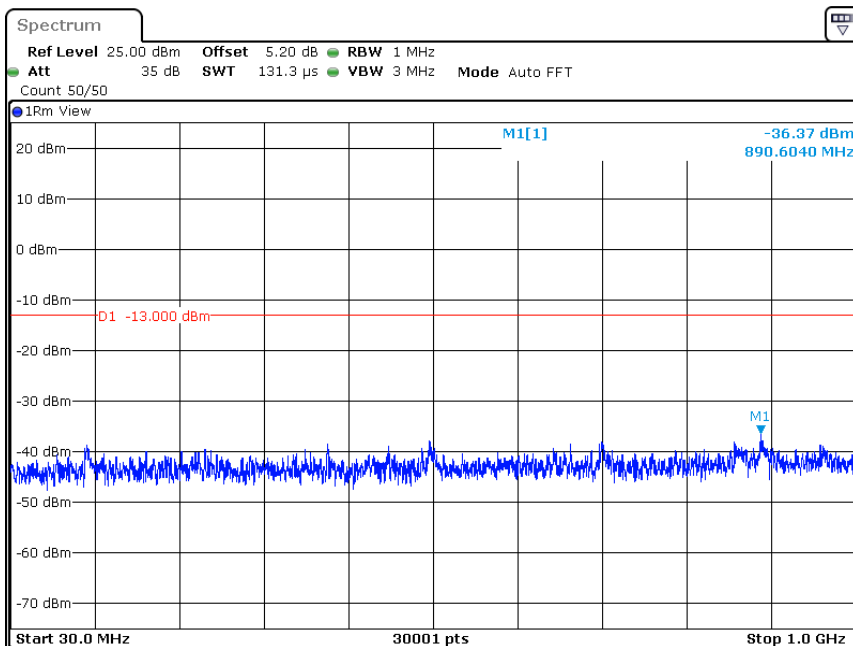


Band4-1413-1000~20000MHz



Date: 16 MAY 2021 22:53:16

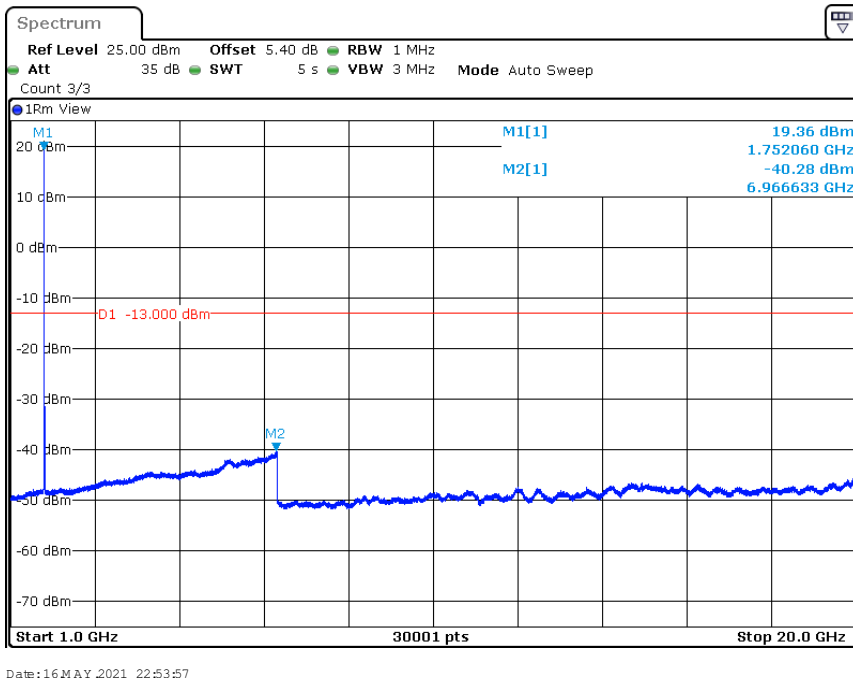
Band4-1513-30~1000MHz



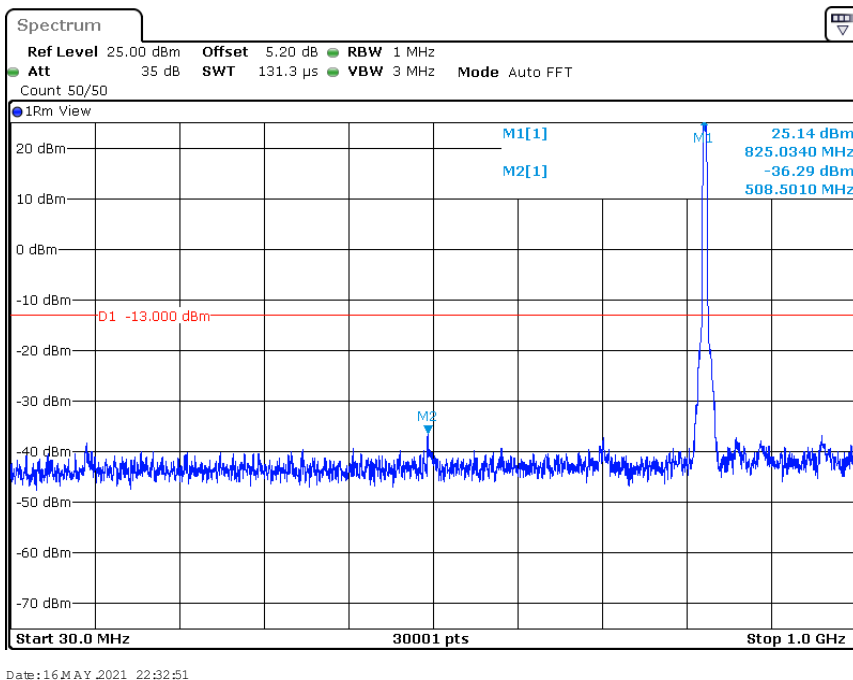
Date: 16 MAY 2021 22:53:31



**Band4-1513-1000~20000MHz**



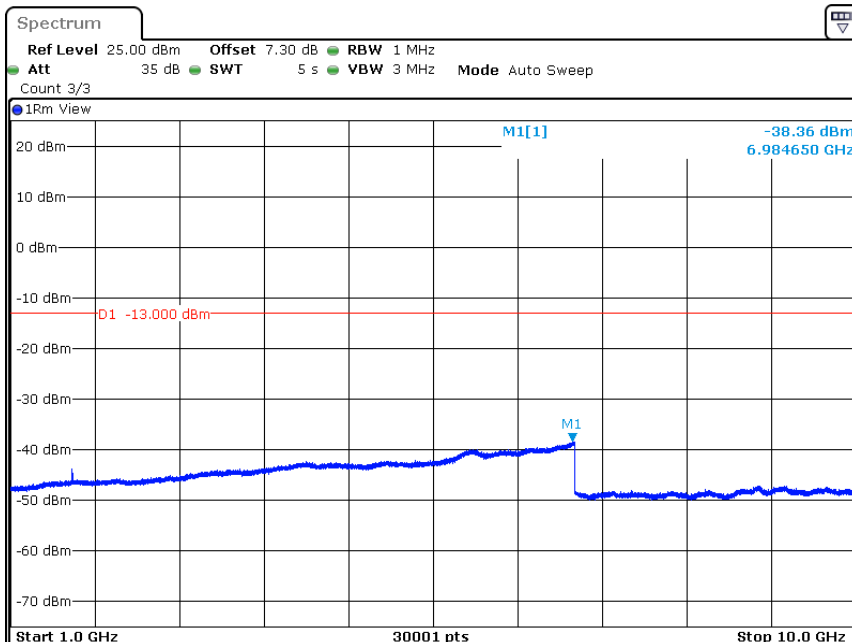
**Band5-4132-30~1000MHz**



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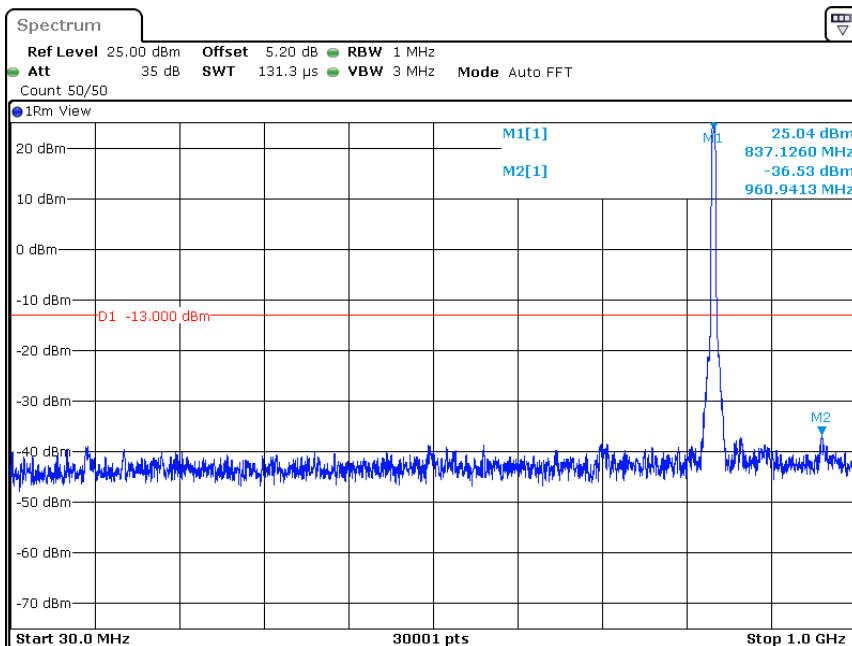
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**Band5-4132-1000~10000MHz**



Date: 16 MAY 2021 22:33:16

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



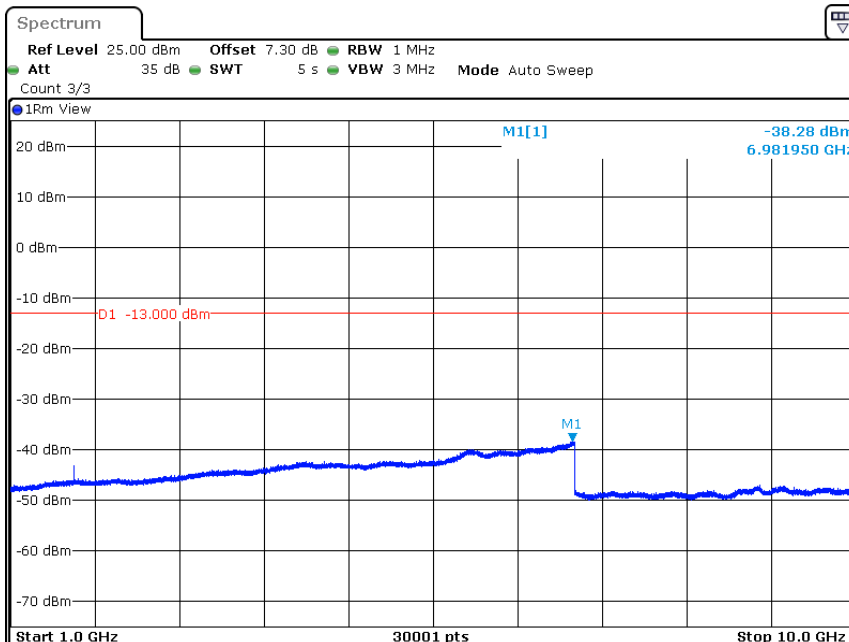
Date: 16 MAY 2021 22:33:32



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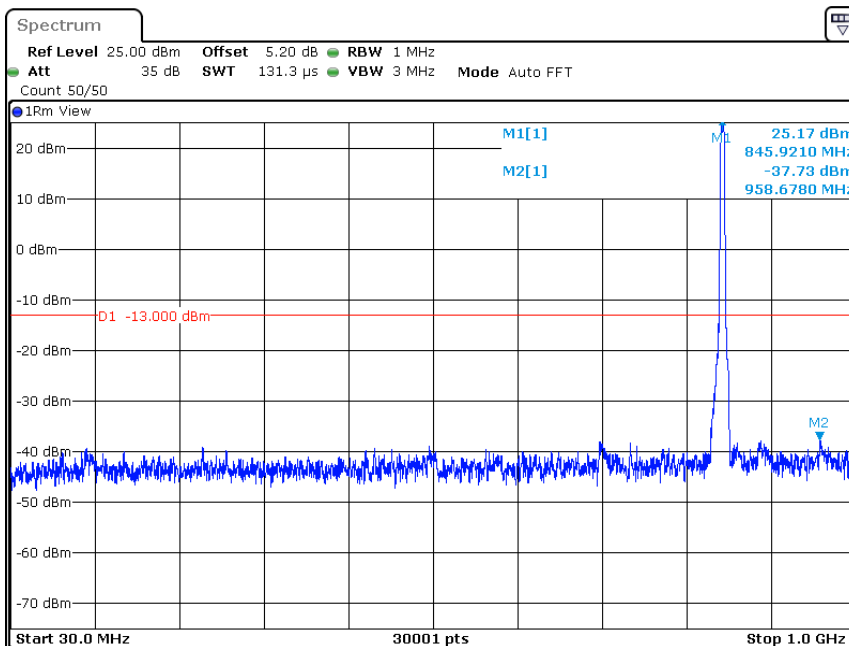
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**Band5-4182-1000~10000MHz**



Date: 16 MAY 2021 22:33:57

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

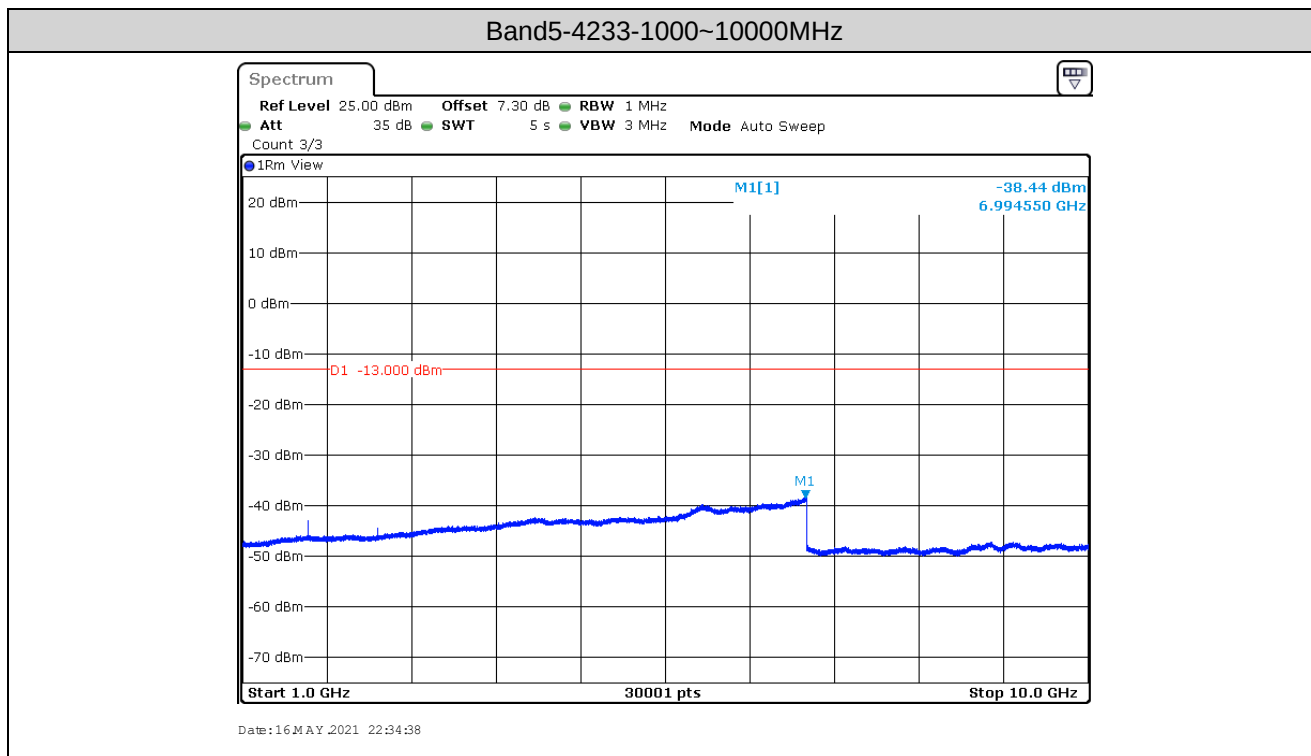


Date: 16 MAY 2021 22:34:13



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = \_WCDMA 2\_TM1 ANT3

#### 7.1.1. Test Channel = Low Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1274.2843      | 20.60            | -49.93         | -13.00         | 36.93          | Horizontal |
| 2                   | 2502.6878      | 21.46            | -45.10         | -13.00         | 32.10          | Horizontal |
| 3                   | 3703.5352      | 57.80            | -57.48         | -13.00         | 44.48          | Horizontal |
| 4                   | 5709.1355      | 49.90            | -57.09         | -13.00         | 44.09          | Horizontal |
| 5                   | 11237.6619     | 47.03            | -48.77         | -13.00         | 35.77          | Horizontal |
| 6                   | 17986.499      | 48.32            | -45.28         | -13.00         | 32.28          | Horizontal |



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## 7.2. Test Band = \_WCDMA 2\_TM1 ANT3

### 7.2.1. Test Channel = Low Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1239.7800      | 20.61            | -49.79         | -13.00         | 36.79          | Vertical |
| 2                   | 2687.7110      | 21.06            | -44.84         | -13.00         | 31.84          | Vertical |
| 3                   | 3705.7853      | 56.98            | -58.27         | -13.00         | 45.27          | Vertical |
| 4                   | 6751.6876      | 48.43            | -55.46         | -13.00         | 42.46          | Vertical |
| 5                   | 11235.4118     | 47.00            | -48.79         | -13.00         | 35.79          | Vertical |
| 6                   | 17994.749      | 48.48            | -45.29         | -13.00         | 32.29          | Vertical |



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### 7.3. Test Band = \_WCDMA 2\_TM1 ANT3

#### 7.3.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1240.7801      | 20.68            | -49.74         | -13.00         | 36.74          | Horizontal |
| 2                   | 2433.4292      | 24.21            | -42.84         | -13.00         | 29.84          | Horizontal |
| 3                   | 3758.2879      | 57.45            | -57.11         | -13.00         | 44.11          | Horizontal |
| 4                   | 6505.6753      | 49.06            | -55.41         | -13.00         | 42.41          | Horizontal |
| 5                   | 10647.382      | 46.99            | -49.85         | -13.00         | 36.85          | Horizontal |
| 6                   | 17991.749      | 47.85            | -45.86         | -13.00         | 32.86          | Horizontal |



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#### 7.4. Test Band = \_WCDMA 2\_TM1 ANT3

##### 7.4.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1344.0430      | 20.55            | -49.83         | -13.00         | 36.83          | Vertical |
| 2                   | 2501.4377      | 21.33            | -45.22         | -13.00         | 32.22          | Vertical |
| 3                   | 3761.2881      | 56.04            | -58.53         | -13.00         | 45.53          | Vertical |
| 4                   | 7482.9741      | 48.80            | -53.37         | -13.00         | 40.37          | Vertical |
| 5                   | 11235.4118     | 47.50            | -48.29         | -13.00         | 35.29          | Vertical |
| 6                   | 17993.999      | 47.65            | -46.10         | -13.00         | 33.10          | Vertical |



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## 7.5. Test Band = \_WCDMA 2\_TM1 ANT3

### 7.5.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1349.7937      | 20.35            | -49.84         | -13.00         | 36.84          | Horizontal |
| 2                   | 2908.9886      | 20.92            | -44.12         | -13.00         | 31.12          | Horizontal |
| 3                   | 3813.7907      | 59.59            | -55.06         | -13.00         | 42.06          | Horizontal |
| 4                   | 8355.2678      | 48.00            | -53.24         | -13.00         | 40.24          | Horizontal |
| 5                   | 12371.718      | 46.30            | -48.01         | -13.00         | 35.01          | Horizontal |
| 6                   | 17993.999      | 48.11            | -45.64         | -13.00         | 32.64          | Horizontal |



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## 7.6. Test Band = \_WCDMA 2\_TM1 ANT3

### 7.6.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1240.0300      | 20.75            | -49.64         | -13.00         | 36.64          | Vertical |
| 2                   | 2430.6788      | 25.83            | -41.19         | -13.00         | 28.19          | Vertical |
| 3                   | 3816.7908      | 58.43            | -56.22         | -13.00         | 43.22          | Vertical |
| 4                   | 7466.4733      | 48.76            | -53.55         | -13.00         | 40.55          | Vertical |
| 5                   | 13389.519      | 45.45            | -47.02         | -13.00         | 34.02          | Vertical |
| 6                   | 17245.462      | 66.76            | -29.97         | -13.00         | 16.97          | Vertical |



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## 7.7. Test Band = \_WCDMA 4\_TM1 ANT3

### 7.7.1. Test Channel = Low Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 2353.4192      | 21.13            | -46.43         | -13.00         | 33.43          | Horizontal |
| 2                   | 4590.0795      | 51.06            | -60.50         | -13.00         | 47.50          | Horizontal |
| 3                   | 7455.2228      | 48.89            | -53.51         | -13.00         | 40.51          | Horizontal |
| 4                   | 9005.5503      | 47.36            | -51.58         | -13.00         | 38.58          | Horizontal |
| 5                   | 14054.802      | 45.12            | -46.88         | -13.00         | 33.88          | Horizontal |
| 6                   | 17912.995      | 47.34            | -45.61         | -13.00         | 32.61          | Horizontal |



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## 7.8. Test Band = \_WCDMA 4\_TM1 ANT3

### 7.8.1. Test Channel = Low Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 2113.3892      | 24.94            | -43.59         | -13.00         | 30.59          | Vertical |
| 2                   | 3659.2830      | 52.13            | -62.58         | -13.00         | 49.58          | Vertical |
| 3                   | 4452.0726      | 51.04            | -60.90         | -13.00         | 47.90          | Vertical |
| 4                   | 8428.7714      | 48.43            | -52.63         | -13.00         | 39.63          | Vertical |
| 5                   | 12304.965      | 45.12            | -48.94         | -13.00         | 35.94          | Vertical |
| 6                   | 17988.749      | 47.87            | -45.77         | -13.00         | 32.77          | Vertical |



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## 7.9. Test Band = \_WCDMA 4\_TM1 ANT3

### 7.9.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 2502.9379      | 21.14            | -45.42         | -13.00         | 32.42          | Horizontal |
| 2                   | 3379.5190      | 53.07            | -62.83         | -13.00         | 49.83          | Horizontal |
| 3                   | 6777.1889      | 48.36            | -55.93         | -13.00         | 42.93          | Horizontal |
| 4                   | 9561.3281      | 46.71            | -51.92         | -13.00         | 38.92          | Horizontal |
| 5                   | 14057.052      | 44.94            | -47.08         | -13.00         | 34.08          | Horizontal |
| 6                   | 17912.995      | 46.78            | -46.17         | -13.00         | 33.17          | Horizontal |



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## 7.10. Test Band = \_WCDMA 4\_TM1 ANT3

### 7.10.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 2641.2052      | 21.00            | -45.28         | -13.00         | 32.28          | Vertical |
| 2                   | 3599.2800      | 52.47            | -62.72         | -13.00         | 49.72          | Vertical |
| 3                   | 5673.8837      | 49.49            | -57.63         | -13.00         | 44.63          | Vertical |
| 4                   | 8308.0154      | 47.50            | -53.85         | -13.00         | 40.85          | Vertical |
| 5                   | 10618.130      | 46.56            | -50.29         | -13.00         | 37.29          | Vertical |
| 6                   | 15020.101      | 44.73            | -46.96         | -13.00         | 33.96          | Vertical |



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## 7.11. Test Band = \_WCDMA 4\_TM1 ANT3

### 7.11.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 2619.7025      | 21.06            | -45.16         | -13.00         | 32.16          | Horizontal |
| 2                   | 3375.0188      | 52.40            | -63.47         | -13.00         | 50.47          | Horizontal |
| 3                   | 5688.8844      | 49.22            | -57.71         | -13.00         | 44.71          | Horizontal |
| 4                   | 8313.2657      | 48.06            | -53.28         | -13.00         | 40.28          | Horizontal |
| 5                   | 12412.220      | 45.92            | -48.15         | -13.00         | 35.15          | Horizontal |
| 6                   | 17997.749      | 48.19            | -45.64         | -13.00         | 32.64          | Horizontal |



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## 7.12. Test Band = \_WCDMA 4\_TM1 ANT3

### 7.12.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 2440.1800      | 21.24            | -45.86         | -13.00         | 32.86          | Vertical |
| 2                   | 3747.7874      | 51.70            | -62.88         | -13.00         | 49.88          | Vertical |
| 3                   | 4992.8496      | 49.60            | -59.81         | -13.00         | 46.81          | Vertical |
| 4                   | 10442.622      | 45.62            | -51.62         | -13.00         | 38.62          | Vertical |
| 5                   | 15917.895      | 45.01            | -48.75         | -13.00         | 35.75          | Vertical |
| 6                   | 17983.499      | 47.93            | -45.60         | -13.00         | 32.60          | Vertical |



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### 7.13. Test Band = \_WCDMA 5\_TM1 ANT0

#### 7.13.1. Test Channel = Low Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1414.4207      | 21.66            | -67.39         | -13.00         | 54.39          | Horizontal |
| 2                   | 2222.0611      | 21.88            | -64.54         | -13.00         | 51.54          | Horizontal |
| 3                   | 3534.8267      | 52.71            | -62.50         | -13.00         | 49.50          | Horizontal |
| 4                   | 5516.9758      | 49.80            | -58.17         | -13.00         | 45.17          | Horizontal |
| 5                   | 6969.8985      | 48.94            | -54.79         | -13.00         | 41.79          | Horizontal |
| 6                   | 9008.4004      | 47.27            | -51.68         | -13.00         | 38.68          | Horizontal |



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#### 7.14. Test Band = \_WCDMA 5\_TM1 ANT0

##### 7.14.1. Test Channel = Low Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1157.5079      | 22.17            | -66.61         | -13.00         | 53.61          | Vertical |
| 2                   | 2107.5554      | 21.88            | -65.26         | -13.00         | 52.26          | Vertical |
| 3                   | 2459.5730      | 24.94            | -60.58         | -13.00         | 47.58          | Vertical |
| 4                   | 3934.1967      | 51.47            | -62.36         | -13.00         | 49.36          | Vertical |
| 5                   | 5411.6206      | 49.36            | -59.02         | -13.00         | 46.02          | Vertical |
| 6                   | 8368.5684      | 48.24            | -52.93         | -13.00         | 39.93          | Vertical |



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## 7.15. Test Band = \_WCDMA 5\_TM1 ANT0

### 7.15.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1236.4118      | 21.95            | -67.48         | -13.00         | 54.48          | Horizontal |
| 2                   | 1941.3471      | 23.55            | -64.38         | -13.00         | 51.38          | Horizontal |
| 3                   | 3147.0074      | 52.25            | -63.58         | -13.00         | 50.58          | Horizontal |
| 4                   | 4980.3990      | 49.90            | -59.61         | -13.00         | 46.61          | Horizontal |
| 5                   | 6750.7875      | 48.24            | -55.63         | -13.00         | 42.63          | Horizontal |
| 6                   | 9558.9779      | 47.44            | -51.21         | -13.00         | 38.21          | Horizontal |



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## 7.16. Test Band = \_WCDMA 5\_TM1 ANT0

### 7.16.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1227.8114      | 21.77            | -67.56         | -13.00         | 54.56          | Vertical |
| 2                   | 2410.7705      | 25.10            | -60.31         | -13.00         | 47.31          | Vertical |
| 3                   | 3880.6440      | 51.20            | -62.99         | -13.00         | 49.99          | Vertical |
| 4                   | 5478.1239      | 49.75            | -58.30         | -13.00         | 45.30          | Vertical |
| 5                   | 6779.4890      | 48.79            | -55.54         | -13.00         | 42.54          | Vertical |
| 6                   | 9931.3966      | 46.09            | -52.14         | -13.00         | 39.14          | Vertical |



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## 7.17. Test Band = \_WCDMA 5\_TM1 ANT0

### 7.17.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1000.1000      | 21.42            | -65.49         | -13.00         | 52.49          | Horizontal |
| 2                   | 2450.4725      | 26.00            | -59.48         | -13.00         | 46.48          | Horizontal |
| 3                   | 2971.4986      | 21.95            | -61.07         | -13.00         | 48.07          | Horizontal |
| 4                   | 4819.3910      | 50.79            | -59.81         | -13.00         | 46.81          | Horizontal |
| 5                   | 6970.5985      | 48.72            | -55.00         | -13.00         | 42.00          | Horizontal |
| 6                   | 9946.0973      | 46.34            | -51.87         | -13.00         | 38.87          | Horizontal |



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## 7.18. Test Band = \_WCDMA 5\_TM1 ANT0

### 7.18.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1000.4000      | 21.31            | -65.62         | -13.00         | 52.62          | Vertical |
| 2                   | 1998.3499      | 21.94            | -65.77         | -13.00         | 52.77          | Vertical |
| 3                   | 2999.9000      | 22.23            | -60.64         | -13.00         | 47.64          | Vertical |
| 4                   | 5499.8250      | 50.08            | -57.93         | -13.00         | 44.93          | Vertical |
| 5                   | 7471.1236      | 48.96            | -53.31         | -13.00         | 40.31          | Vertical |
| 6                   | 9592.5796      | 46.70            | -51.60         | -13.00         | 38.60          | Vertical |



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## 7.19. Test Band = \_WCDMA 2\_TM1 ANT4

### 7.19.1. Test Channel = Low Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1028.7536      | 20.40            | -50.46         | -13.00         | 37.46          | Horizontal |
| 2                   | 1634.5793      | 20.66            | -49.57         | -13.00         | 36.57          | Horizontal |
| 3                   | 2998.7498      | 20.77            | -43.72         | -13.00         | 30.72          | Horizontal |
| 4                   | 4142.3071      | 51.78            | -61.16         | -13.00         | 48.16          | Horizontal |
| 5                   | 8839.0420      | 47.72            | -52.13         | -13.00         | 39.13          | Horizontal |
| 6                   | 17988.749      | 47.94            | -45.70         | -13.00         | 32.70          | Horizontal |



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## 7.20. Test Band = \_WCDMA 2\_TM1 ANT4

### 7.20.1. Test Channel = Low Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1038.0048      | 20.70            | -50.07         | -13.00         | 37.07          | Vertical |
| 2                   | 1529.5662      | 20.56            | -49.28         | -13.00         | 36.28          | Vertical |
| 3                   | 2998.7498      | 20.72            | -43.77         | -13.00         | 30.77          | Vertical |
| 4                   | 4224.0612      | 51.19            | -61.51         | -13.00         | 48.51          | Vertical |
| 5                   | 7483.7242      | 48.65            | -53.51         | -13.00         | 40.51          | Vertical |
| 6                   | 17918.245      | 47.43            | -45.51         | -13.00         | 32.51          | Vertical |



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## 7.21. Test Band = \_WCDMA 2\_TM1 ANT4

### 7.21.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1472.5591      | 20.34            | -49.75         | -13.00         | 36.75          | Horizontal |
| 2                   | 2698.9624      | 20.95            | -44.84         | -13.00         | 31.84          | Horizontal |
| 3                   | 5409.1205      | 49.28            | -59.12         | -13.00         | 46.12          | Horizontal |
| 4                   | 9008.5504      | 47.47            | -51.49         | -13.00         | 38.49          | Horizontal |
| 5                   | 14024.801      | 45.32            | -47.01         | -13.00         | 34.01          | Horizontal |
| 6                   | 17989.499      | 48.13            | -45.53         | -13.00         | 32.53          | Horizontal |



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## 7.22. Test Band = \_WCDMA 2\_TM1 ANT4

### 7.22.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1509.8137      | 20.40            | -49.42         | -13.00         | 36.42          | Vertical |
| 2                   | 2777.9722      | 21.05            | -44.74         | -13.00         | 31.74          | Vertical |
| 3                   | 4804.5902      | 50.20            | -60.47         | -13.00         | 47.47          | Vertical |
| 4                   | 7472.4736      | 48.97            | -53.29         | -13.00         | 40.29          | Vertical |
| 5                   | 11216.6608     | 46.92            | -48.80         | -13.00         | 35.80          | Vertical |
| 6                   | 17989.499      | 48.13            | -45.53         | -13.00         | 32.53          | Vertical |



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7.23. Test Band = \_WCDMA 2\_TM1 ANT4

7.23.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1524.8156      | 20.73            | -49.27         | -13.00         | 36.27          | Horizontal |
| 2                   | 2838.7298      | 20.87            | -44.78         | -13.00         | 31.78          | Horizontal |
| 3                   | 5692.6346      | 49.20            | -57.68         | -13.00         | 44.68          | Horizontal |
| 4                   | 10612.880      | 47.21            | -49.64         | -13.00         | 36.64          | Horizontal |
| 5                   | 14588.079      | 45.80            | -46.62         | -13.00         | 33.62          | Horizontal |
| 6                   | 17997.749      | 48.25            | -45.58         | -13.00         | 32.58          | Horizontal |



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## 7.24. Test Band = \_WCDMA 2\_TM1 ANT4

### 7.24.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1435.8045      | 20.56            | -49.51         | -13.00         | 36.51          | Vertical |
| 2                   | 2704.4631      | 20.89            | -44.95         | -13.00         | 31.95          | Vertical |
| 3                   | 4432.5716      | 51.06            | -61.02         | -13.00         | 48.02          | Vertical |
| 4                   | 8362.7681      | 48.11            | -53.09         | -13.00         | 40.09          | Vertical |
| 5                   | 13034.751      | 45.04            | -47.61         | -13.00         | 34.61          | Vertical |
| 6                   | 17988.749      | 47.53            | -46.11         | -13.00         | 33.11          | Vertical |



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## 7.25. Test Band = \_WCDMA 4\_TM1 ANT4

### 7.25.1. Test Channel = Low Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1393.0491      | 20.47            | -49.81         | -13.00         | 36.81          | Horizontal |
| 2                   | 2782.4728      | 21.04            | -44.75         | -13.00         | 31.75          | Horizontal |
| 3                   | 5675.3838      | 49.66            | -57.44         | -13.00         | 44.44          | Horizontal |
| 4                   | 10419.371      | 45.70            | -51.38         | -13.00         | 38.38          | Horizontal |
| 5                   | 16867.443      | 46.42            | -47.48         | -13.00         | 34.48          | Horizontal |
| 6                   | 17995.499      | 48.52            | -45.27         | -13.00         | 32.27          | Horizontal |



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## 7.26. Test Band = \_WCDMA 4\_TM1 ANT4

### 7.26.1. Test Channel = Low Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1395.2994      | 20.24            | -50.04         | -13.00         | 37.04          | Vertical |
| 2                   | 2761.7202      | 20.91            | -44.97         | -13.00         | 31.97          | Vertical |
| 3                   | 4161.8081      | 50.76            | -62.04         | -13.00         | 49.04          | Vertical |
| 4                   | 8403.2702      | 48.37            | -52.63         | -13.00         | 39.63          | Vertical |
| 5                   | 13016.750      | 44.87            | -47.68         | -13.00         | 34.68          | Vertical |
| 6                   | 17803.490      | 47.24            | -46.95         | -13.00         | 33.95          | Vertical |



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## 7.27. Test Band = \_WCDMA 4\_TM1 ANT4

### 7.27.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1321.2902      | 20.65            | -49.89         | -13.00         | 36.89          | Horizontal |
| 2                   | 2863.4829      | 20.80            | -44.58         | -13.00         | 31.58          | Horizontal |
| 3                   | 5700.1350      | 49.10            | -57.69         | -13.00         | 44.69          | Horizontal |
| 4                   | 9594.3297      | 46.40            | -51.89         | -13.00         | 38.89          | Horizontal |
| 5                   | 12908.745      | 45.83            | -47.70         | -13.00         | 34.70          | Horizontal |
| 6                   | 17989.499      | 48.15            | -45.51         | -13.00         | 32.51          | Horizontal |



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## 7.28. Test Band = \_WCDMA 4\_TM1 ANT4

### 7.28.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1310.5388      | 20.56            | -49.93         | -13.00         | 36.93          | Vertical |
| 2                   | 2703.2129      | 20.93            | -44.89         | -13.00         | 31.89          | Vertical |
| 3                   | 5493.8747      | 49.70            | -58.32         | -13.00         | 45.32          | Vertical |
| 4                   | 10185.359      | 46.24            | -51.41         | -13.00         | 38.41          | Vertical |
| 5                   | 15043.352      | 44.86            | -47.05         | -13.00         | 34.05          | Vertical |
| 6                   | 17991.749      | 47.89            | -45.82         | -13.00         | 32.82          | Vertical |



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7.29. Test Band = \_WCDMA 4\_TM1 ANT4

7.29.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1302.0378      | 20.51            | -50.00         | -13.00         | 37.00          | Horizontal |
| 2                   | 2691.4614      | 21.14            | -44.71         | -13.00         | 31.71          | Horizontal |
| 3                   | 4572.0786      | 51.13            | -60.57         | -13.00         | 47.57          | Horizontal |
| 4                   | 7969.7485      | 48.20            | -53.74         | -13.00         | 40.74          | Horizontal |
| 5                   | 12772.988      | 44.89            | -48.21         | -13.00         | 35.21          | Horizontal |
| 6                   | 17980.499      | 47.79            | -45.68         | -13.00         | 32.68          | Horizontal |



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### 7.30. Test Band = \_WCDMA 4\_TM1 ANT4

#### 7.30.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1349.2937      | 20.28            | -49.93         | -13.00         | 36.93          | Vertical |
| 2                   | 2750.7188      | 20.93            | -44.81         | -13.00         | 31.81          | Vertical |
| 3                   | 5674.6337      | 49.82            | -57.29         | -13.00         | 44.29          | Vertical |
| 4                   | 9049.0525      | 47.93            | -51.19         | -13.00         | 38.19          | Vertical |
| 5                   | 13363.268      | 45.89            | -46.82         | -13.00         | 33.82          | Vertical |
| 6                   | 17980.499      | 47.74            | -45.73         | -13.00         | 32.73          | Vertical |



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### 7.31. Test Band = \_WCDMA 5\_TM1 ANT1

#### 7.31.1. Test Channel = Low Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1167.5084      | 22.28            | -66.56         | -13.00         | 53.56          | Horizontal |
| 2                   | 2668.9834      | 22.51            | -62.17         | -13.00         | 49.17          | Horizontal |
| 3                   | 4423.8712      | 50.73            | -61.42         | -13.00         | 48.42          | Horizontal |
| 4                   | 7472.1736      | 48.91            | -53.35         | -13.00         | 40.35          | Horizontal |
| 5                   | 9010.1505      | 48.20            | -50.76         | -13.00         | 37.76          | Horizontal |
| 6                   | 9954.4977      | 46.87            | -51.34         | -13.00         | 38.34          | Horizontal |



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### 7.32. Test Band = \_WCDMA 5\_TM1 ANT1

#### 7.32.1. Test Channel = Low Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1374.6187      | 21.26            | -67.84         | -13.00         | 54.84          | Vertical |
| 2                   | 2647.1824      | 22.48            | -62.23         | -13.00         | 49.23          | Vertical |
| 3                   | 4556.1778      | 51.62            | -60.20         | -13.00         | 47.20          | Vertical |
| 4                   | 7489.6745      | 48.99            | -53.13         | -13.00         | 40.13          | Vertical |
| 5                   | 9023.4512      | 47.81            | -51.21         | -13.00         | 38.21          | Vertical |
| 6                   | 9940.1470      | 46.36            | -51.86         | -13.00         | 38.86          | Vertical |



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### 7.33. Test Band = \_WCDMA 5\_TM1 ANT1

#### 7.33.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1445.7223      | 21.41            | -67.58         | -13.00         | 54.58          | Horizontal |
| 2                   | 2685.3843      | 22.07            | -62.60         | -13.00         | 49.60          | Horizontal |
| 3                   | 5510.6755      | 49.91            | -58.07         | -13.00         | 45.07          | Horizontal |
| 4                   | 7453.9727      | 48.86            | -53.55         | -13.00         | 40.55          | Horizontal |
| 5                   | 9039.2020      | 47.79            | -51.29         | -13.00         | 38.29          | Horizontal |
| 6                   | 9860.3430      | 46.64            | -51.64         | -13.00         | 38.64          | Horizontal |



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### 7.34. Test Band = \_WCDMA 5\_TM1 ANT1

#### 7.34.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1506.6253      | 21.89            | -66.94         | -13.00         | 53.94          | Vertical |
| 2                   | 2781.4891      | 21.93            | -61.85         | -13.00         | 48.85          | Vertical |
| 3                   | 5503.3252      | 49.86            | -58.14         | -13.00         | 45.14          | Vertical |
| 4                   | 7481.6241      | 48.97            | -53.21         | -13.00         | 40.21          | Vertical |
| 5                   | 8978.6489      | 47.83            | -51.30         | -13.00         | 38.30          | Vertical |
| 6                   | 9562.4781      | 47.07            | -51.55         | -13.00         | 38.55          | Vertical |



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7.35. Test Band = \_WCDMA 5\_TM1 ANT1

7.35.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 1404.5202      | 21.22            | -67.85         | -13.00         | 54.85          | Horizontal |
| 2                   | 2786.6893      | 22.22            | -61.50         | -13.00         | 48.50          | Horizontal |
| 3                   | 5160.6580      | 49.88            | -59.50         | -13.00         | 46.50          | Horizontal |
| 4                   | 7488.9744      | 49.57            | -52.55         | -13.00         | 39.55          | Horizontal |
| 5                   | 9034.3017      | 47.75            | -51.31         | -13.00         | 38.31          | Horizontal |
| 6                   | 9942.9471      | 46.50            | -51.71         | -13.00         | 38.71          | Horizontal |



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### 7.36. Test Band = \_WCDMA 5\_TM1 ANT1

#### 7.36.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 1521.9261      | 21.67            | -67.31         | -13.00         | 54.31          | Vertical |
| 2                   | 2738.1869      | 21.86            | -62.37         | -13.00         | 49.37          | Vertical |
| 3                   | 3521.1761      | 52.73            | -62.33         | -13.00         | 49.33          | Vertical |
| 4                   | 5682.5341      | 49.51            | -57.50         | -13.00         | 44.50          | Vertical |
| 5                   | 7469.7235      | 49.01            | -53.27         | -13.00         | 40.27          | Vertical |
| 6                   | 9009.1005      | 47.97            | -50.99         | -13.00         | 37.99          | Vertical |

#### 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               | 13.76          | 0.007428        | ±2.5        | PASS    |
| Band2   | 9262    | VN            | NT               | 17.70          | 0.009555        | ±2.5        | PASS    |
| Band2   | 9262    | VH            | NT               | 16.45          | 0.008880        | ±2.5        | PASS    |
| Band2   | 9400    | VL            | NT               | 19.97          | 0.010622        | ±2.5        | PASS    |
| Band2   | 9400    | VN            | NT               | 20.25          | 0.010771        | ±2.5        | PASS    |
| Band2   | 9400    | VH            | NT               | 18.86          | 0.010032        | ±2.5        | PASS    |
| Band2   | 9538    | VL            | NT               | 17.78          | 0.009321        | ±2.5        | PASS    |
| Band2   | 9538    | VN            | NT               | 20.71          | 0.010857        | ±2.5        | PASS    |
| Band2   | 9538    | VH            | NT               | 19.70          | 0.010327        | ±2.5        | PASS    |
| Band4   | 1312    | VL            | NT               | 17.44          | 0.010185        | ±2.5        | PASS    |
| Band4   | 1312    | VN            | NT               | 16.45          | 0.009606        | ±2.5        | PASS    |
| Band4   | 1312    | VH            | NT               | 17.62          | 0.010290        | ±2.5        | PASS    |
| Band4   | 1413    | VL            | NT               | 15.95          | 0.009206        | ±2.5        | PASS    |
| Band4   | 1413    | VN            | NT               | 10.35          | 0.005974        | ±2.5        | PASS    |
| Band4   | 1413    | VH            | NT               | 14.56          | 0.008404        | ±2.5        | PASS    |
| Band4   | 1513    | VL            | NT               | 15.38          | 0.008776        | ±2.5        | PASS    |
| Band4   | 1513    | VN            | NT               | 15.05          | 0.008587        | ±2.5        | PASS    |
| Band4   | 1513    | VH            | NT               | 15.70          | 0.008958        | ±2.5        | PASS    |
| Band5   | 4132    | VL            | NT               | 3.37           | 0.004078        | ±2.5        | PASS    |
| Band5   | 4132    | VN            | NT               | 4.53           | 0.005482        | ±2.5        | PASS    |
| Band5   | 4132    | VH            | NT               | 4.23           | 0.005119        | ±2.5        | PASS    |
| Band5   | 4182    | VL            | NT               | 3.39           | 0.004053        | ±2.5        | PASS    |
| Band5   | 4182    | VN            | NT               | 1.53           | 0.001829        | ±2.5        | PASS    |
| Band5   | 4182    | VH            | NT               | 5.81           | 0.006946        | ±2.5        | PASS    |
| Band5   | 4233    | VL            | NT               | 9.45           | 0.011162        | ±2.5        | PASS    |
| Band5   | 4233    | VN            | NT               | 6.15           | 0.007264        | ±2.5        | PASS    |
| Band5   | 4233    | VH            | NT               | 6.45           | 0.007619        | ±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              | 18.71          | 0.010100        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | -20              | 20.42          | 0.011024        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | -10              | 17.67          | 0.009539        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 0                | 16.69          | 0.009010        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 10               | 18.40          | 0.009933        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 20               | 17.26          | 0.009318        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 30               | 19.61          | 0.010586        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 40               | 16.68          | 0.009005        | ±2.5        | PASS    |
| Band2       | 9262    | NV            | 50               | 17.33          | 0.009355        | ±2.5        | PASS    |
| Band2       | 9400    | NV            | -30              | 19.01          | 0.010112        | ±2.5        | PASS    |
| Band2       | 9400    | NV            | -20              | 20.37          | 0.010835        | ±2.5        | PASS    |
| Band2       | 9400    | NV            | -10              | 17.17          | 0.009133        | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 0                | 15.61          | 0.008303        | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 10               | 18.49          | 0.009835        | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 20               | 17.53          | 0.009324        | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 30               | 17.70          | 0.009415        | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 40               | 18.52          | 0.009851        | ±2.5        | PASS    |
| Band2       | 9400    | NV            | 50               | 14.34          | 0.007628        | ±2.5        | PASS    |
| Band2       | 9538    | NV            | -30              | 20.11          | 0.010542        | ±2.5        | PASS    |
| Band2       | 9538    | NV            | -20              | 17.78          | 0.009321        | ±2.5        | PASS    |
| Band2       | 9538    | NV            | -10              | 17.68          | 0.009268        | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 0                | 19.56          | 0.010254        | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 10               | 19.07          | 0.009997        | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 20               | 20.98          | 0.010998        | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 30               | 14.10          | 0.007391        | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 40               | 20.28          | 0.010631        | ±2.5        | PASS    |
| Band2       | 9538    | NV            | 50               | 17.82          | 0.009342        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | -30              | 17.33          | 0.010120        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | -20              | 14.47          | 0.008450        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | -10              | 16.42          | 0.009589        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 0                | 19.18          | 0.011201        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 10               | 18.28          | 0.010675        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 20               | 14.88          | 0.008690        | ±2.5        | PASS    |



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|       |      |    |     |       |          |      |      |
|-------|------|----|-----|-------|----------|------|------|
| Band4 | 1312 | NV | 30  | 20.20 | 0.011796 | ±2.5 | PASS |
| Band4 | 1312 | NV | 40  | 18.36 | 0.010722 | ±2.5 | PASS |
| Band4 | 1312 | NV | 50  | 21.16 | 0.012357 | ±2.5 | PASS |
| Band4 | 1413 | NV | -30 | 20.51 | 0.011838 | ±2.5 | PASS |
| Band4 | 1413 | NV | -20 | 16.95 | 0.009783 | ±2.5 | PASS |
| Band4 | 1413 | NV | -10 | 17.72 | 0.010227 | ±2.5 | PASS |
| Band4 | 1413 | NV | 0   | 15.15 | 0.008744 | ±2.5 | PASS |
| Band4 | 1413 | NV | 10  | 19.32 | 0.011151 | ±2.5 | PASS |
| Band4 | 1413 | NV | 20  | 16.85 | 0.009725 | ±2.5 | PASS |
| Band4 | 1413 | NV | 30  | 12.68 | 0.007318 | ±2.5 | PASS |
| Band4 | 1413 | NV | 40  | 17.88 | 0.010320 | ±2.5 | PASS |
| Band4 | 1413 | NV | 50  | 12.68 | 0.007318 | ±2.5 | PASS |
| Band4 | 1513 | NV | -30 | 13.82 | 0.007885 | ±2.5 | PASS |
| Band4 | 1513 | NV | -20 | 14.60 | 0.008330 | ±2.5 | PASS |
| Band4 | 1513 | NV | -10 | 14.16 | 0.008079 | ±2.5 | PASS |
| Band4 | 1513 | NV | 0   | 13.05 | 0.007446 | ±2.5 | PASS |
| Band4 | 1513 | NV | 10  | 10.35 | 0.005906 | ±2.5 | PASS |
| Band4 | 1513 | NV | 20  | 12.50 | 0.007132 | ±2.5 | PASS |
| Band4 | 1513 | NV | 30  | 15.06 | 0.008593 | ±2.5 | PASS |
| Band4 | 1513 | NV | 40  | 14.74 | 0.008410 | ±2.5 | PASS |
| Band4 | 1513 | NV | 50  | 12.94 | 0.007383 | ±2.5 | PASS |
| Band5 | 4132 | NV | -30 | 7.60  | 0.009197 | ±2.5 | PASS |
| Band5 | 4132 | NV | -20 | 5.33  | 0.006450 | ±2.5 | PASS |
| Band5 | 4132 | NV | -10 | 7.39  | 0.008942 | ±2.5 | PASS |
| Band5 | 4132 | NV | 0   | 10.16 | 0.012294 | ±2.5 | PASS |
| Band5 | 4132 | NV | 10  | 7.35  | 0.008894 | ±2.5 | PASS |
| Band5 | 4132 | NV | 20  | 6.77  | 0.008192 | ±2.5 | PASS |
| Band5 | 4132 | NV | 30  | 5.78  | 0.006994 | ±2.5 | PASS |
| Band5 | 4132 | NV | 40  | 4.56  | 0.005518 | ±2.5 | PASS |
| Band5 | 4132 | NV | 50  | 3.43  | 0.004151 | ±2.5 | PASS |
| Band5 | 4182 | NV | -30 | 8.03  | 0.009601 | ±2.5 | PASS |
| Band5 | 4182 | NV | -20 | 9.46  | 0.011310 | ±2.5 | PASS |
| Band5 | 4182 | NV | -10 | 5.00  | 0.005978 | ±2.5 | PASS |
| Band5 | 4182 | NV | 0   | 9.40  | 0.011239 | ±2.5 | PASS |
| Band5 | 4182 | NV | 10  | 4.07  | 0.004866 | ±2.5 | PASS |
| Band5 | 4182 | NV | 20  | 4.43  | 0.005297 | ±2.5 | PASS |
| Band5 | 4182 | NV | 30  | 4.90  | 0.005858 | ±2.5 | PASS |



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|       |      |    |     |      |          |      |      |
|-------|------|----|-----|------|----------|------|------|
| Band5 | 4182 | NV | 40  | 5.04 | 0.006026 | ±2.5 | PASS |
| Band5 | 4182 | NV | 50  | 5.78 | 0.006911 | ±2.5 | PASS |
| Band5 | 4233 | NV | -30 | 7.00 | 0.008268 | ±2.5 | PASS |
| Band5 | 4233 | NV | -20 | 2.41 | 0.002847 | ±2.5 | PASS |
| Band5 | 4233 | NV | -10 | 3.22 | 0.003803 | ±2.5 | PASS |
| Band5 | 4233 | NV | 0   | 1.85 | 0.002185 | ±2.5 | PASS |
| Band5 | 4233 | NV | 10  | 7.46 | 0.008812 | ±2.5 | PASS |
| Band5 | 4233 | NV | 20  | 6.64 | 0.007843 | ±2.5 | PASS |
| Band5 | 4233 | NV | 30  | 2.98 | 0.003520 | ±2.5 | PASS |
| Band5 | 4233 | NV | 40  | 5.95 | 0.007028 | ±2.5 | PASS |
| Band5 | 4233 | NV | 50  | 5.36 | 0.006331 | ±2.5 | PASS |

The End

