



Appendix B

WCDMA Band V



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

| Band | Channel | Conducted Power (dBm) | ERP (dBm) | Limit(dBm) | Verdict |
|--------|---------|-----------------------|-----------|------------|---------|
| Band V | 4132 | 23.50 | 19.44 | 38.45 | PASS |
| Band V | 4182 | 23.42 | 19.36 | 38.45 | PASS |
| Band V | 4233 | 23.43 | 19.37 | 38.45 | PASS |

Remark:

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

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

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



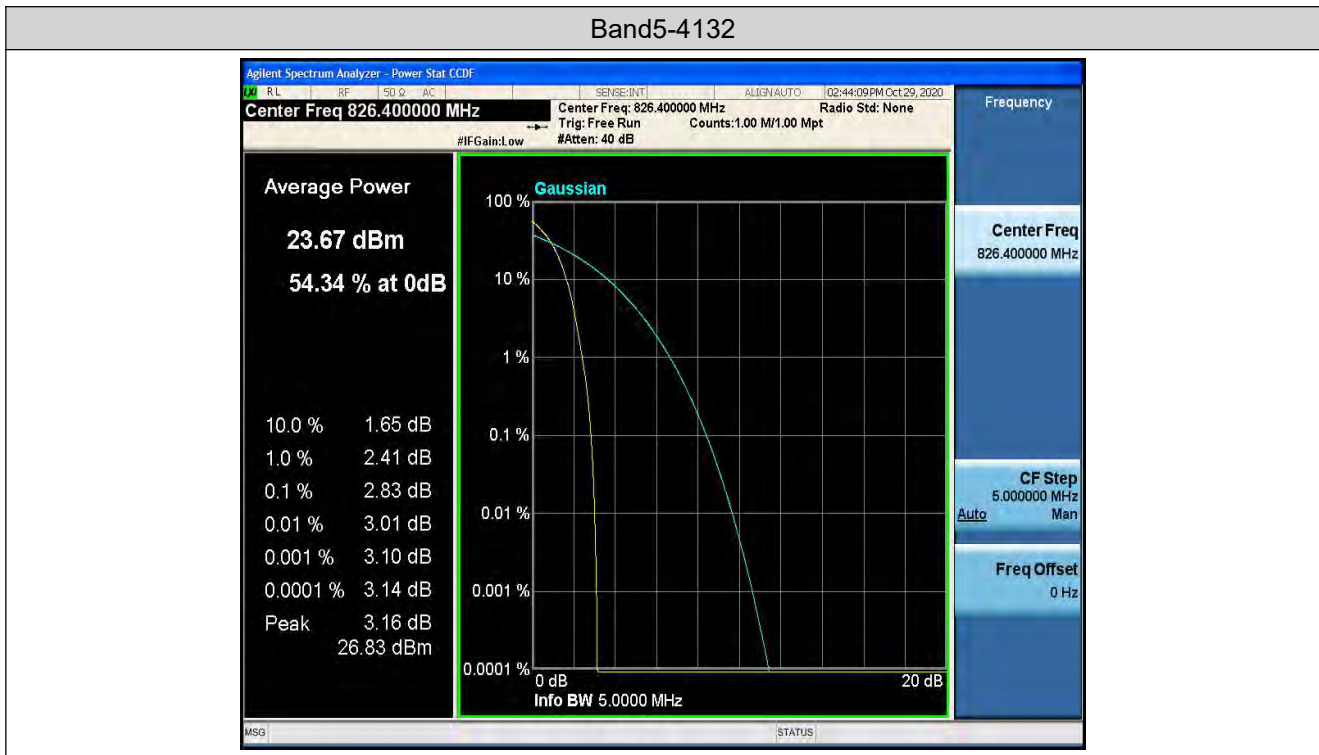
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

| Band | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------------------------|-----------|---------|
| Band5 | 4132 | 2.83 | 13 | PASS |
| Band5 | 4182 | 2.95 | 13 | PASS |
| Band5 | 4233 | 2.85 | 13 | PASS |

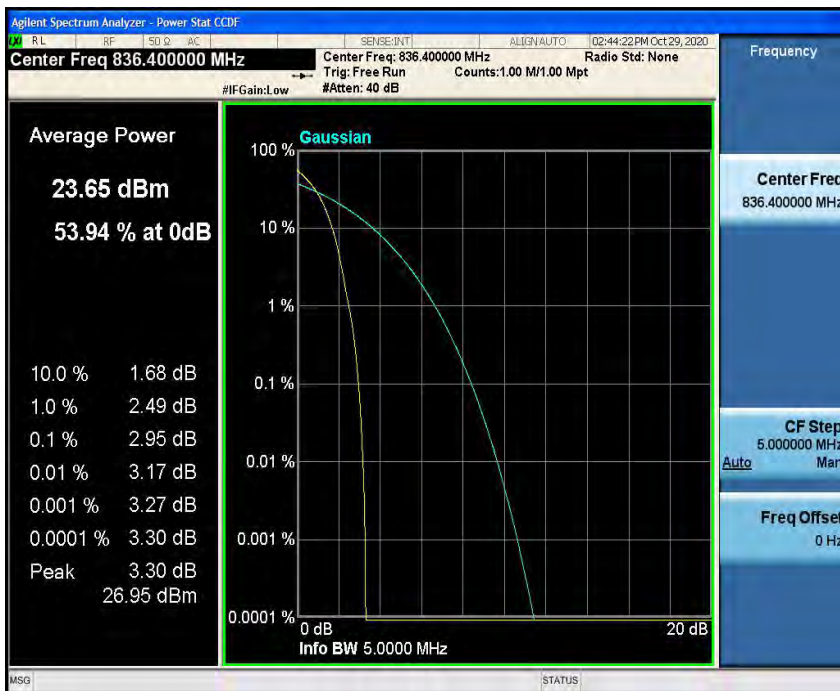
2.2. Test Plots



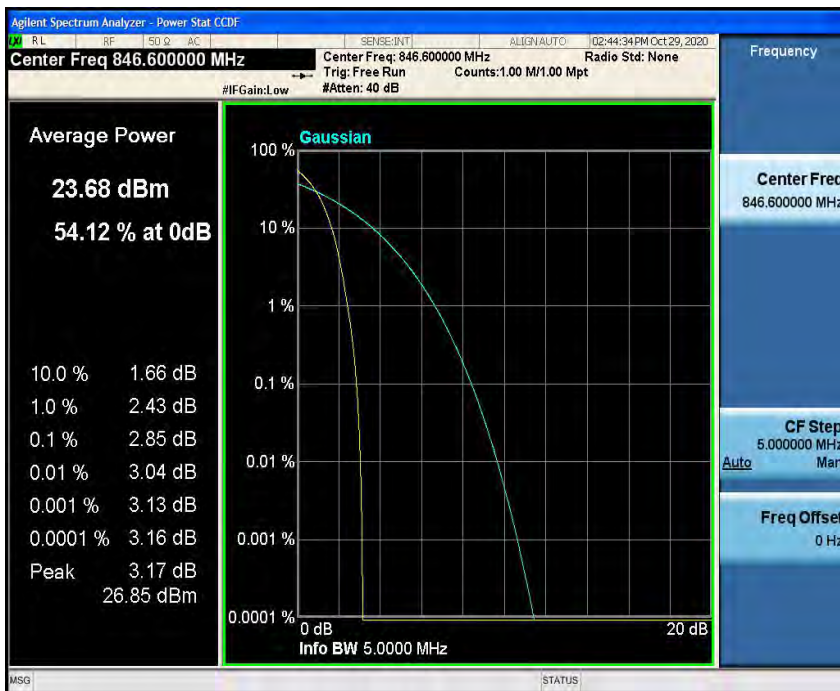
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Band5-4182



Band5-4233



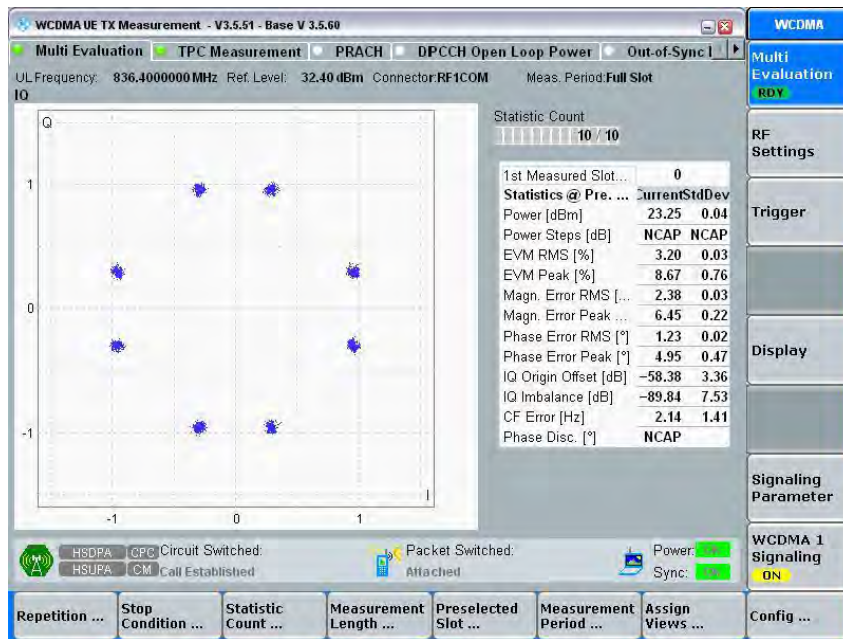
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band V

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



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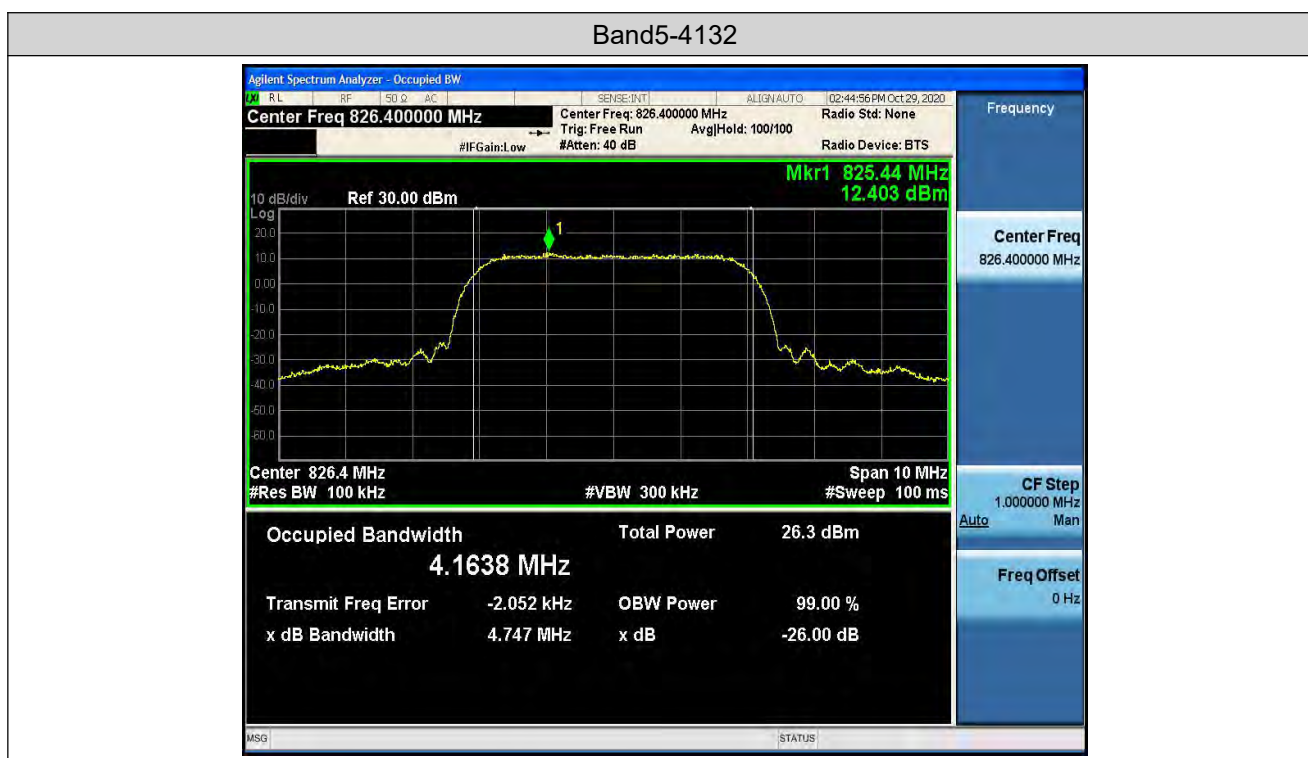


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

| Band | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit(MHz) | Verdict |
|-------|---------|--------------------------|----------------------|------------|---------|
| Band5 | 4132 | 4.1638 | 4.747 | --- | PASS |
| Band5 | 4182 | 4.1736 | 4.742 | --- | PASS |
| Band5 | 4233 | 4.1653 | 4.736 | --- | PASS |

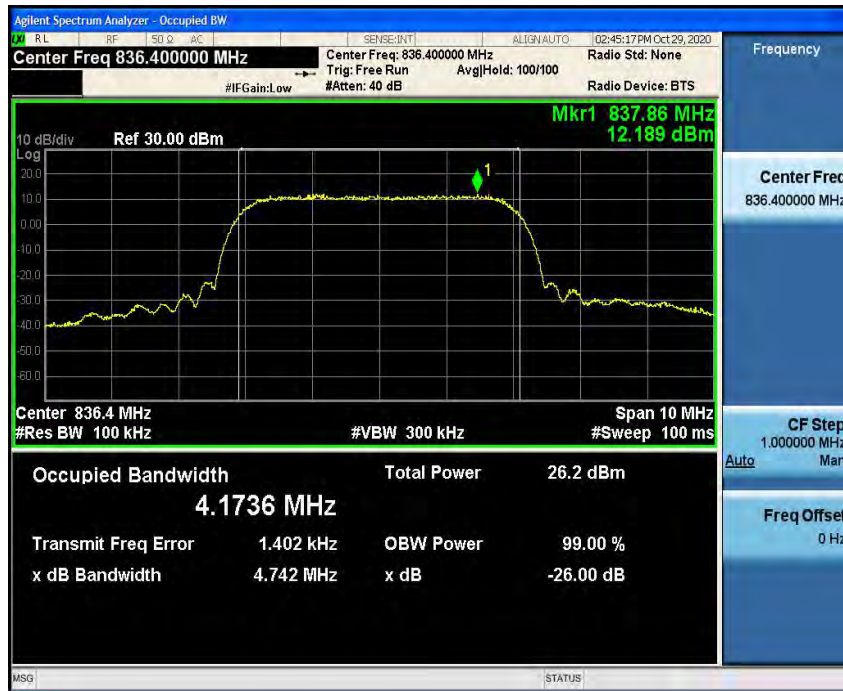
4.2. Test Plots



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Band5-4182



Band5-4233



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5. Band Edge Compliance

5.1. Test Plots



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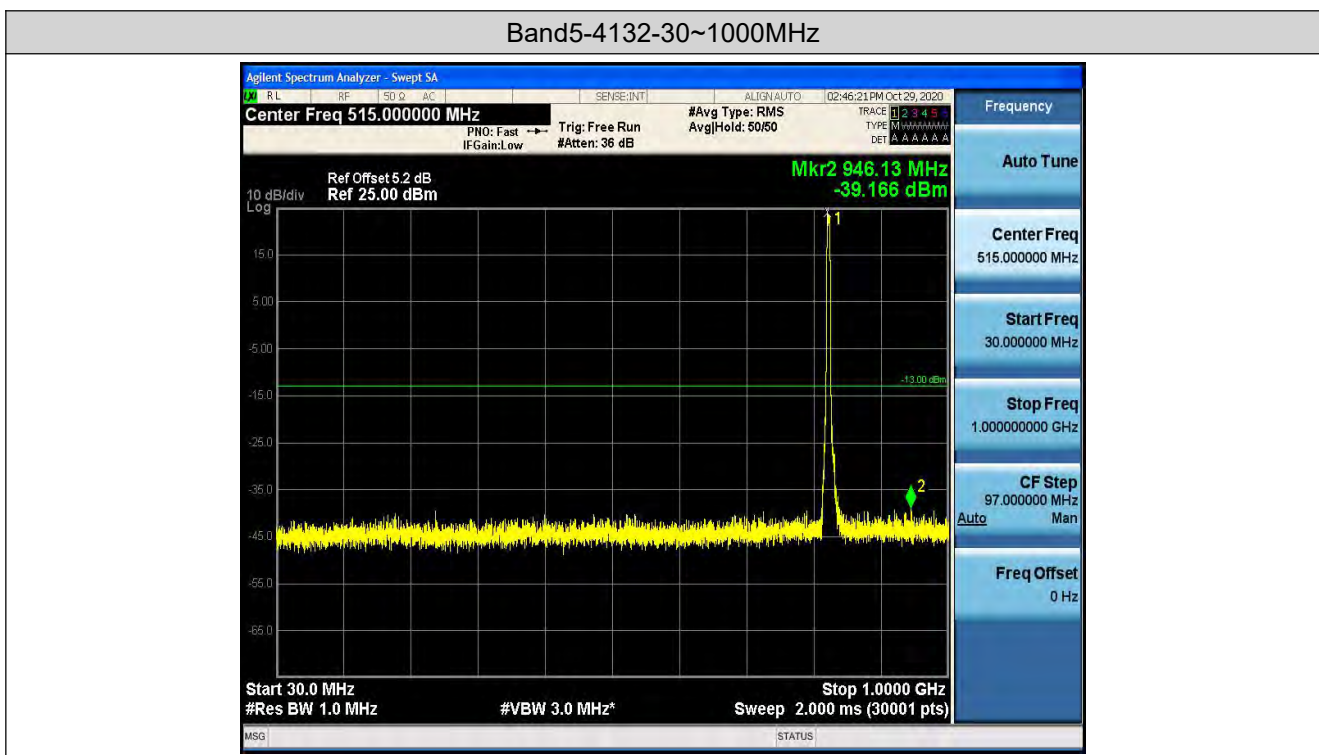
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6. Spurious Emission at Antenna Terminal

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



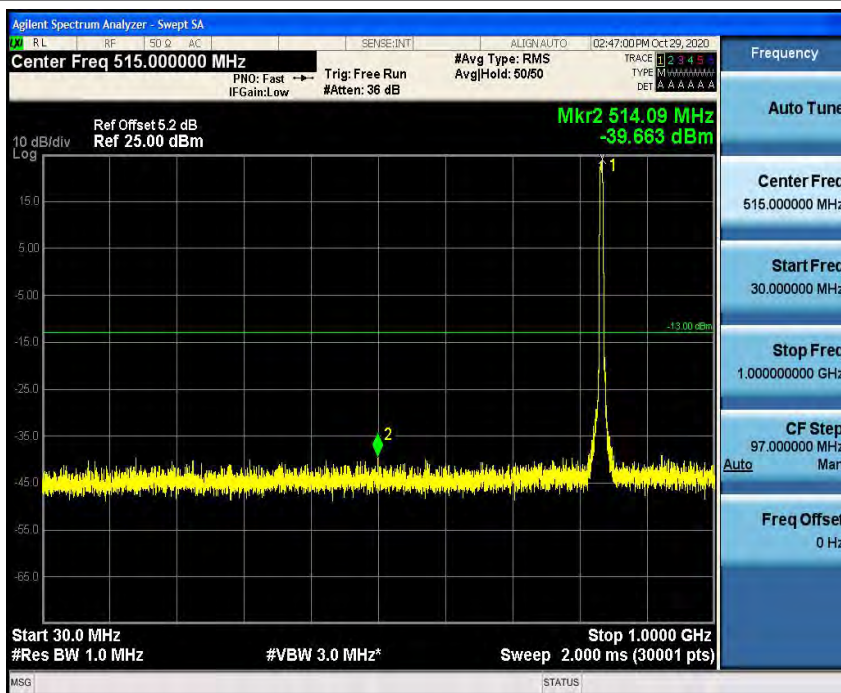
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Band5-4132-1000~10000MHz



Band5-4182-30~1000MHz

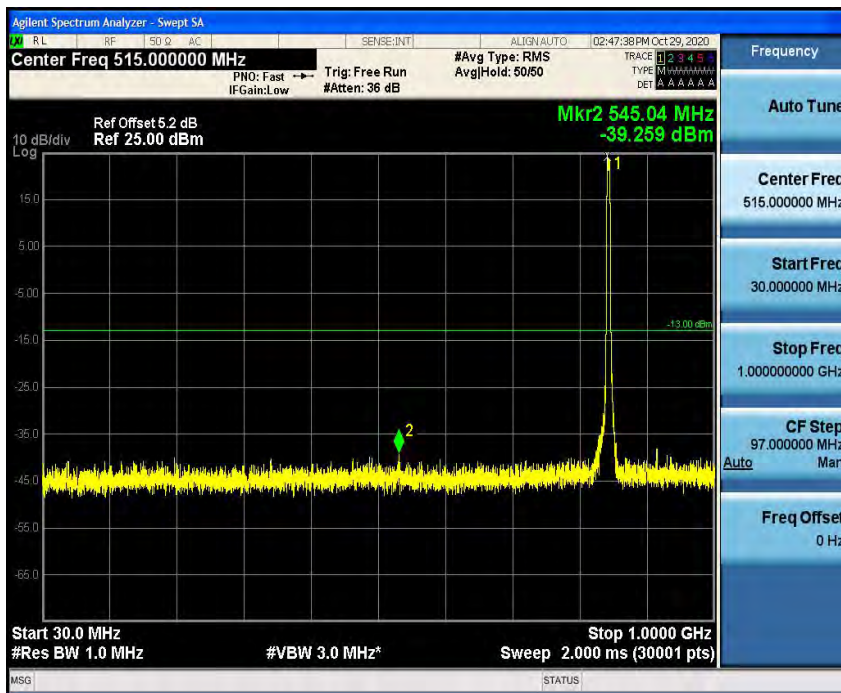


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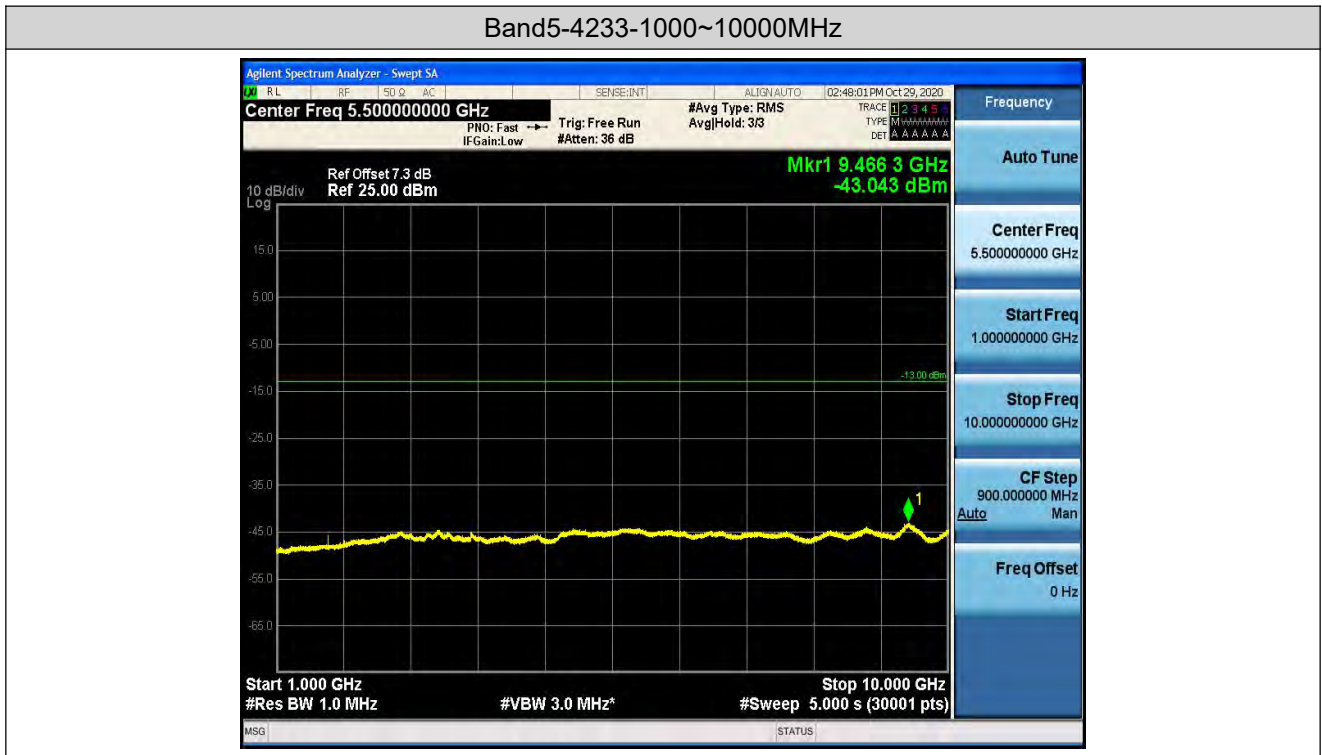
Band5-4182-1000~10000MHz



Band5-4233-30~1000MHz



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7. Field Strength of Spurious Radiation

Firstly Supply:

7.1 Test Band = WCDMA_V_TM1

7.1.1 Test Channel = Low Channel

| Suspected Data List | | | | | |
|---------------------|-------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 41.2526 | -61.43 | -13.00 | 48.43 | Horizontal |
| 2 | 99.2130 | -75.14 | -13.00 | 62.14 | Horizontal |
| 3 | 228.1809 | -68.25 | -13.00 | 55.25 | Horizontal |
| 4 | 1651.3303 | -55.55 | -13.00 | 42.55 | Horizontal |
| 5 | 2480.2961 | -49.18 | -13.00 | 36.18 | Horizontal |
| 6 | 4136.6046 | -59.38 | -13.00 | 46.38 | Horizontal |



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7.2 Test Band = WCDMA_V_TM1

7.2.1 Test Channel = Low Channel

| Suspected Data List | | | | | |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 30.5820 | -67.95 | -13.00 | 54.95 | Vertical |
| 2 | 110.5625 | -64.59 | -13.00 | 51.59 | Vertical |
| 3 | 380.6725 | -67.65 | -13.00 | 54.65 | Vertical |
| 4 | 1650.9302 | -59.28 | -13.00 | 46.28 | Vertical |
| 5 | 2703.1406 | -51.34 | -13.00 | 38.34 | Vertical |
| 6 | 4135.4378 | -62.19 | -13.00 | 49.19 | Vertical |



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7.3 Test Band = WCDMA_V_TM1

7.3.1 Test Channel = Middle Channel

| Suspected Data List | | | | | |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 41.1071 | -63.77 | -13.00 | 50.77 | Horizontal |
| 2 | 109.2530 | -75.70 | -13.00 | 62.70 | Horizontal |
| 3 | 231.0426 | -67.80 | -13.00 | 54.80 | Horizontal |
| 4 | 1674.9350 | -57.03 | -13.00 | 44.03 | Horizontal |
| 5 | 2512.3025 | -46.40 | -13.00 | 33.40 | Horizontal |
| 6 | 4177.4392 | -59.89 | -13.00 | 46.89 | Horizontal |



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7.4 Test Band = WCDMA_V_TM1

7.4.1 Test Channel = Middle Channel

| Suspected Data List | | | | | |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 30.8245 | -68.79 | -13.00 | 55.79 | Vertical |
| 2 | 110.1260 | -64.75 | -13.00 | 51.75 | Vertical |
| 3 | 373.5427 | -67.66 | -13.00 | 54.66 | Vertical |
| 4 | 1866.9734 | -58.89 | -13.00 | 45.89 | Vertical |
| 5 | 2512.7025 | -50.54 | -13.00 | 37.54 | Vertical |
| 6 | 4176.0392 | -61.74 | -13.00 | 48.74 | Vertical |



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7.5 Test Band = WCDMA_V_TM1

7.5.1 Test Channel = High Channel

| Suspected Data List | | | | | |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 42.3196 | -62.76 | -13.00 | 49.76 | Horizontal |
| 2 | 101.2986 | -74.77 | -13.00 | 61.77 | Horizontal |
| 3 | 234.1952 | -68.03 | -13.00 | 55.03 | Horizontal |
| 4 | 1690.9382 | -58.76 | -13.00 | 45.76 | Horizontal |
| 5 | 2695.1390 | -50.25 | -13.00 | 37.25 | Horizontal |
| 6 | 9310.9437 | -52.67 | -13.00 | 39.67 | Horizontal |



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7.6 Test Band = WCDMA_V_TM1

7.6.1 Test Channel = High Channel

| Suspected Data List | | | | | |
|---------------------|-------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 30.6305 | -70.08 | -13.00 | 57.08 | Vertical |
| 2 | 110.2230 | -64.19 | -13.00 | 51.19 | Vertical |
| 3 | 369.1290 | -67.86 | -13.00 | 54.86 | Vertical |
| 4 | 1668.1336 | -60.30 | -13.00 | 47.30 | Vertical |
| 5 | 2696.3393 | -51.31 | -13.00 | 38.31 | Vertical |
| 6 | 9880.0627 | -52.08 | -13.00 | 39.08 | Vertical |



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Secondly Supply:

7.7 Test Band = WCDMA_V_TM1

7.7.1 Test Channel = Middle Channel

| Suspected Data List | | | | | |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 44.5992 | -63.50 | -13.00 | 50.50 | Horizontal |
| 2 | 223.1852 | -69.03 | -13.00 | 56.03 | Horizontal |
| 3 | 507.9429 | -65.24 | -13.00 | 52.24 | Horizontal |
| 4 | 1674.5349 | -59.40 | -13.00 | 46.40 | Horizontal |
| 5 | 2699.9400 | -50.01 | -13.00 | 37.01 | Horizontal |
| 6 | 7391.0130 | -56.12 | -13.00 | 43.12 | Horizontal |



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7.8 Test Band = WCDMA_V_TM1

7.8.1 Test Channel = Middle Channel

| Suspected Data List | | | | | |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 79.1330 | -66.62 | -13.00 | 53.62 | Vertical |
| 2 | 111.6296 | -64.19 | -13.00 | 51.19 | Vertical |
| 3 | 602.3286 | -63.50 | -13.00 | 50.50 | Vertical |
| 4 | 2695.9392 | -51.29 | -13.00 | 38.29 | Vertical |
| 5 | 8018.4673 | -55.05 | -13.00 | 42.05 | Vertical |
| 6 | 9572.2857 | -51.97 | -13.00 | 38.97 | 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 |
| Band5 | 4132 | VL | NT | 0.53 | 0.000641 | ±2.5 | PASS |
| Band5 | 4132 | VN | NT | 0.26 | 0.000315 | ±2.5 | PASS |
| Band5 | 4132 | VH | NT | 0.51 | 0.000617 | ±2.5 | PASS |
| Band5 | 4182 | VL | NT | -0.09 | -0.000108 | ±2.5 | PASS |
| Band5 | 4182 | VN | NT | -0.09 | -0.000108 | ±2.5 | PASS |
| Band5 | 4182 | VH | NT | -0.04 | -0.000048 | ±2.5 | PASS |
| Band5 | 4233 | VL | NT | -1.51 | -0.001784 | ±2.5 | PASS |
| Band5 | 4233 | VN | NT | -1.32 | -0.001559 | ±2.5 | PASS |
| Band5 | 4233 | VH | NT | -1.36 | -0.001606 | ±2.5 | PASS |

8.2. Frequency Vs Temperature

| Temperature | | | | | | | |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5 | 4132 | NV | -30 | 0.66 | 0.000799 | ±2.5 | PASS |
| Band5 | 4132 | NV | -20 | 0.93 | 0.001125 | ±2.5 | PASS |
| Band5 | 4132 | NV | -10 | 0.67 | 0.000811 | ±2.5 | PASS |
| Band5 | 4132 | NV | 0 | 0.97 | 0.001174 | ±2.5 | PASS |
| Band5 | 4132 | NV | 10 | 1.22 | 0.001476 | ±2.5 | PASS |
| Band5 | 4132 | NV | 20 | 1.08 | 0.001307 | ±2.5 | PASS |
| Band5 | 4132 | NV | 30 | 0.91 | 0.001101 | ±2.5 | PASS |
| Band5 | 4132 | NV | 40 | 1.02 | 0.001234 | ±2.5 | PASS |
| Band5 | 4132 | NV | 50 | 1.20 | 0.001452 | ±2.5 | PASS |
| Band5 | 4182 | NV | -30 | -0.17 | -0.000203 | ±2.5 | PASS |
| Band5 | 4182 | NV | -20 | -0.06 | -0.000072 | ±2.5 | PASS |
| Band5 | 4182 | NV | -10 | -0.16 | -0.000191 | ±2.5 | PASS |
| Band5 | 4182 | NV | 0 | 0.04 | 0.000048 | ±2.5 | PASS |
| Band5 | 4182 | NV | 10 | -0.06 | -0.000072 | ±2.5 | PASS |
| Band5 | 4182 | NV | 20 | -0.19 | -0.000227 | ±2.5 | PASS |
| Band5 | 4182 | NV | 30 | -0.14 | -0.000167 | ±2.5 | PASS |



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| | | | | | | | |
|-------|------|----|-----|-------|-----------|------|------|
| Band5 | 4182 | NV | 40 | 0.03 | 0.000036 | ±2.5 | PASS |
| Band5 | 4182 | NV | 50 | 0.03 | 0.000036 | ±2.5 | PASS |
| Band5 | 4233 | NV | -30 | -1.29 | -0.001524 | ±2.5 | PASS |
| Band5 | 4233 | NV | -20 | -1.27 | -0.001500 | ±2.5 | PASS |
| Band5 | 4233 | NV | -10 | -1.34 | -0.001583 | ±2.5 | PASS |
| Band5 | 4233 | NV | 0 | -1.39 | -0.001642 | ±2.5 | PASS |
| Band5 | 4233 | NV | 10 | -1.48 | -0.001748 | ±2.5 | PASS |
| Band5 | 4233 | NV | 20 | -1.39 | -0.001642 | ±2.5 | PASS |
| Band5 | 4233 | NV | 30 | -1.53 | -0.001807 | ±2.5 | PASS |
| Band5 | 4233 | NV | 40 | -1.42 | -0.001677 | ±2.5 | PASS |
| Band5 | 4233 | NV | 50 | -1.66 | -0.001961 | ±2.5 | PASS |

The End



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