



# Appendix B

## WCDMA Band 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 IV	1312	22.01	20.61	30.00	PASS
Band IV	1413	22.03	20.63	30.00	PASS
Band IV	1513	21.96	20.56	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.39	17.94	38.45	PASS
Band V	4182	23.40	17.95	38.45	PASS
Band V	4233	23.24	17.79	38.45	PASS

Remark:

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

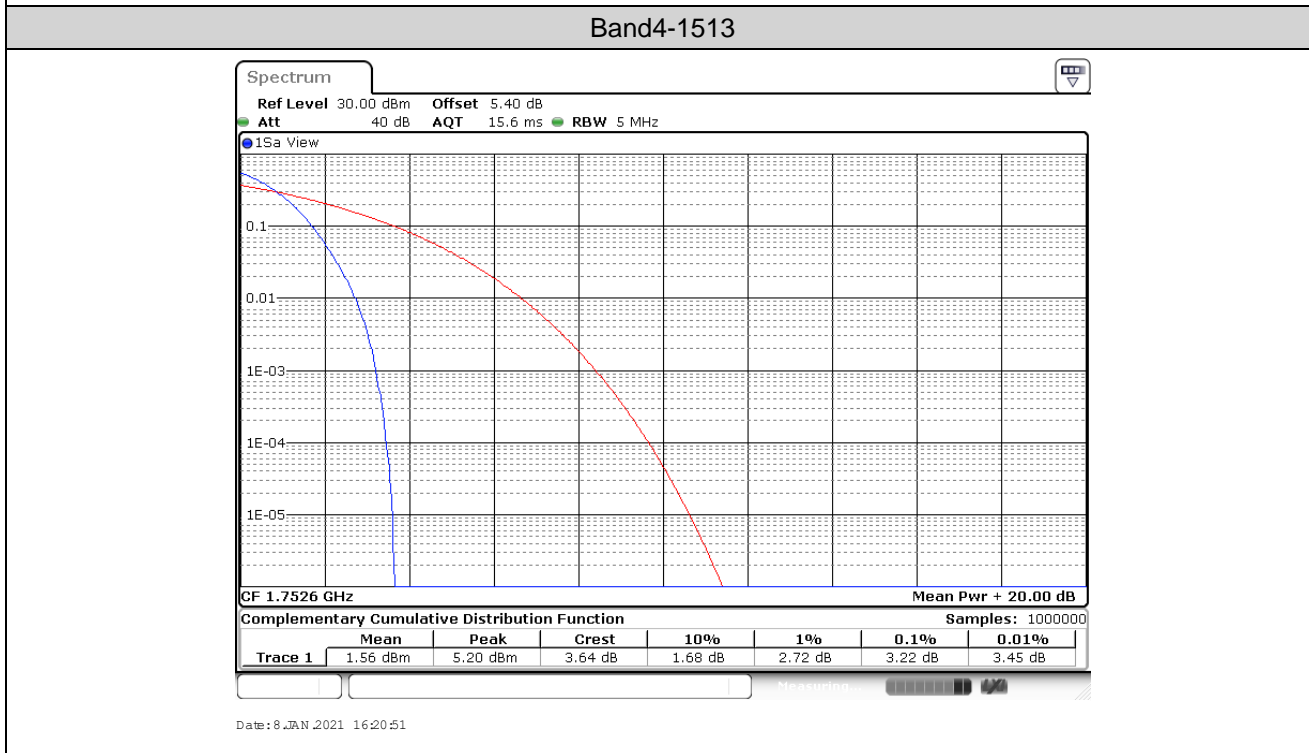
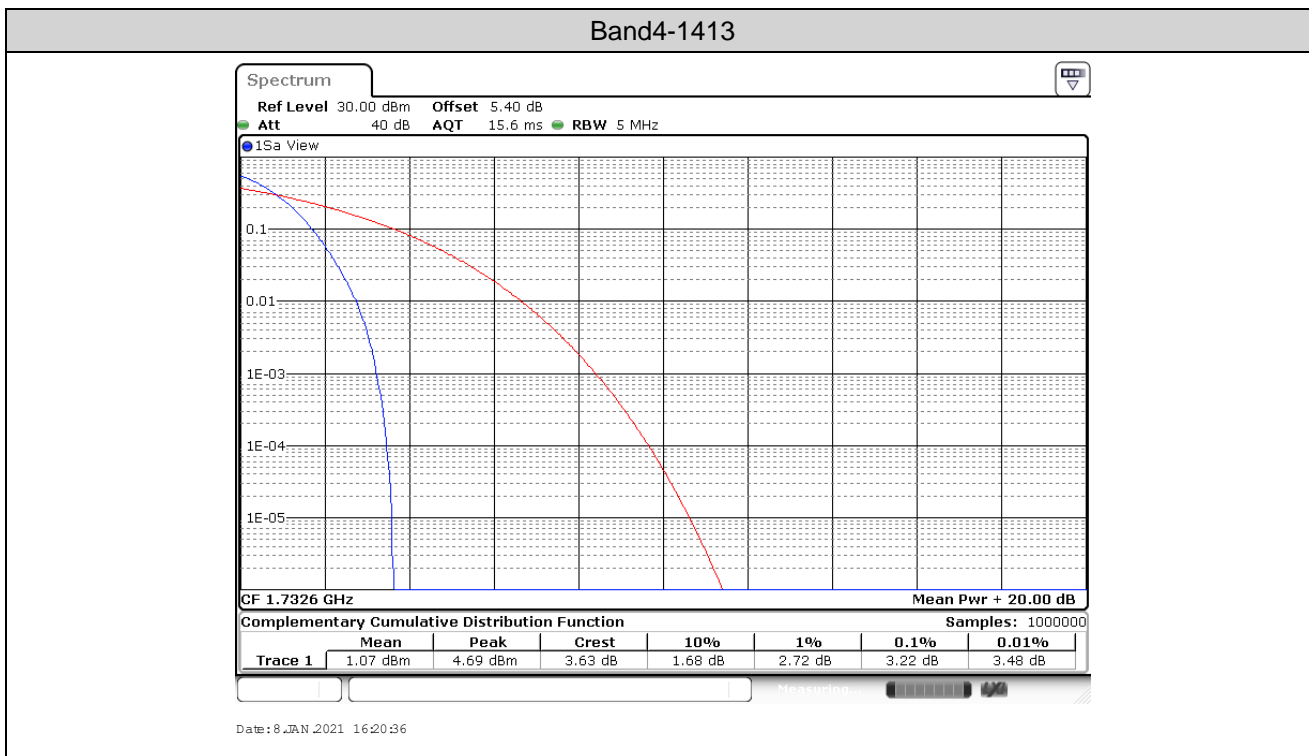
$$ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBd]$$

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



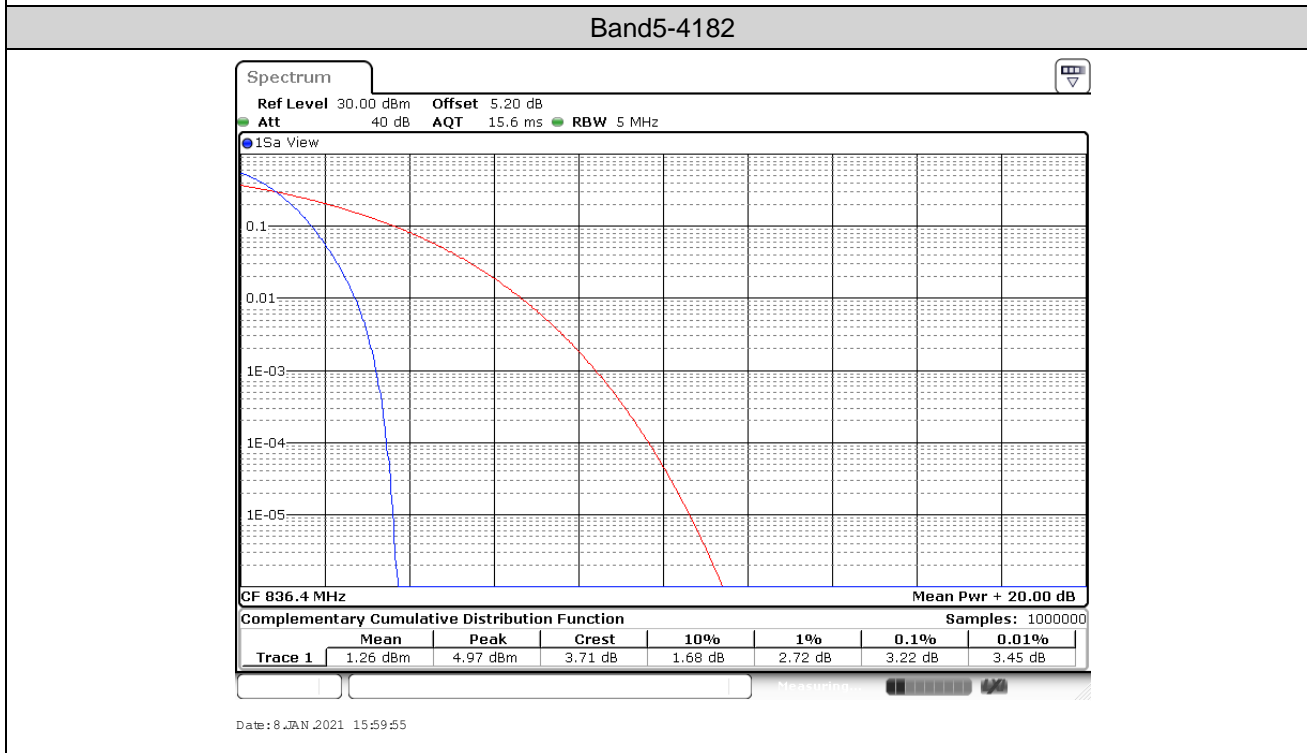
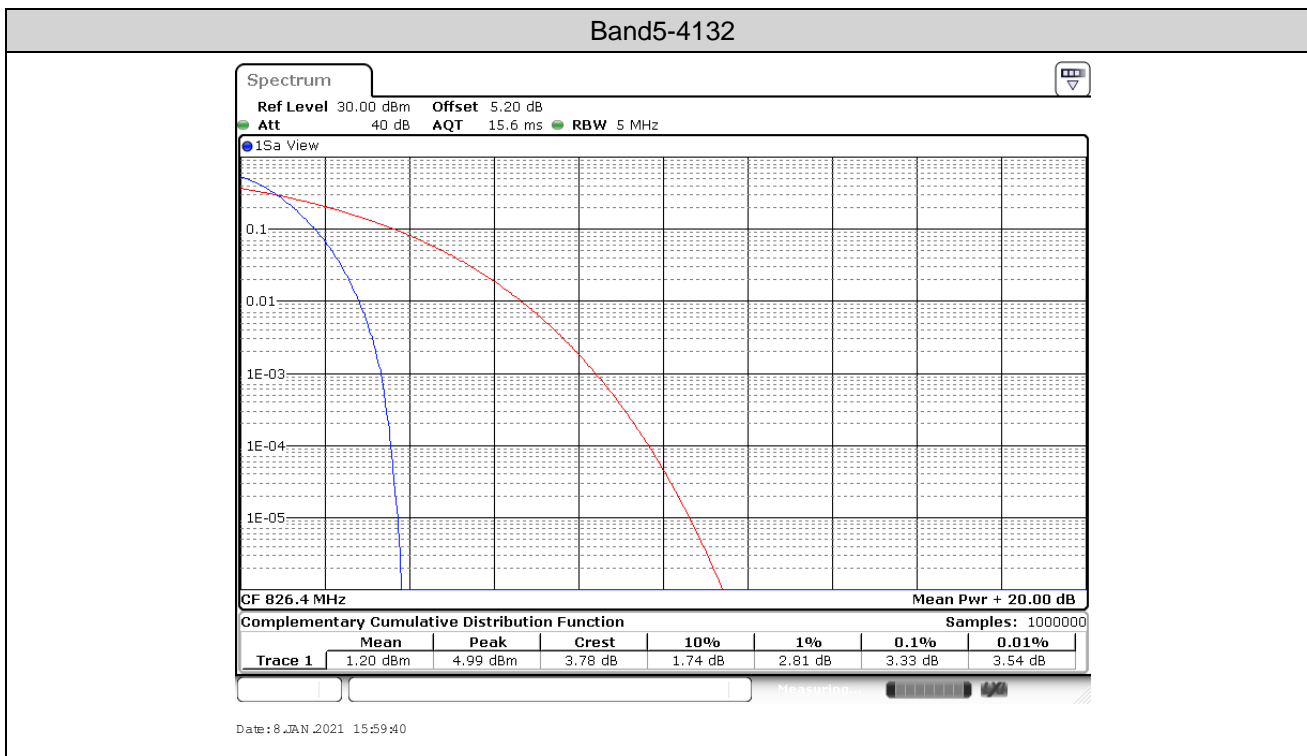
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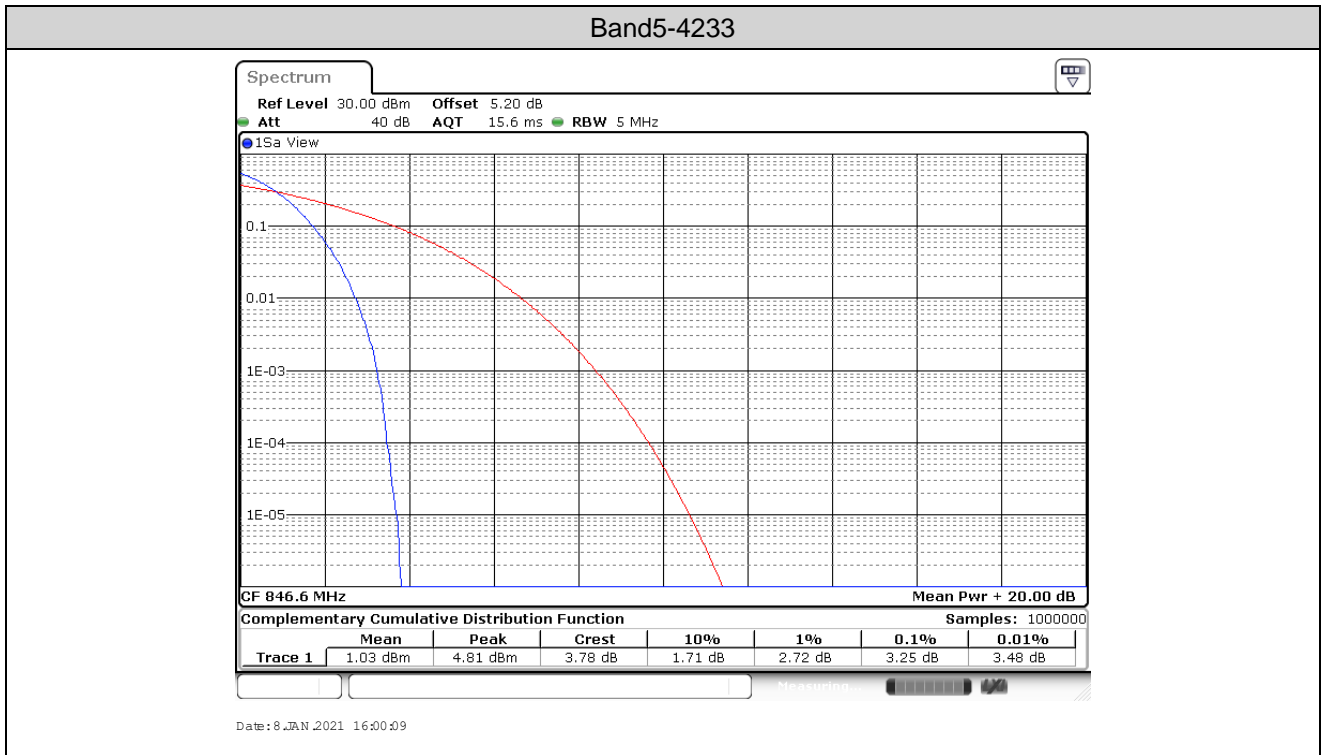
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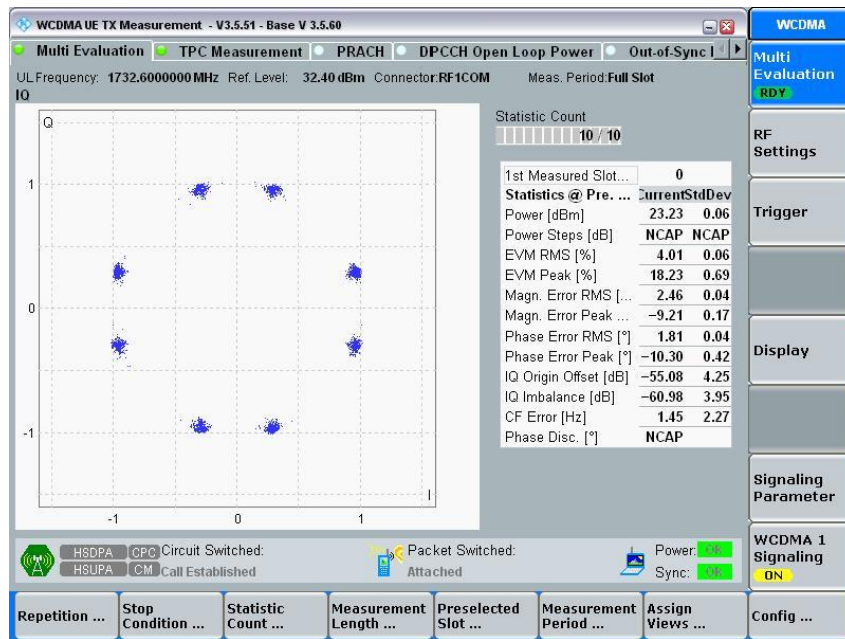


### 3. Modulation Characteristics

#### 3.1. Test Band = WCDMA Band IV

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

##### 3.1.1.1. Test Channel = MCH

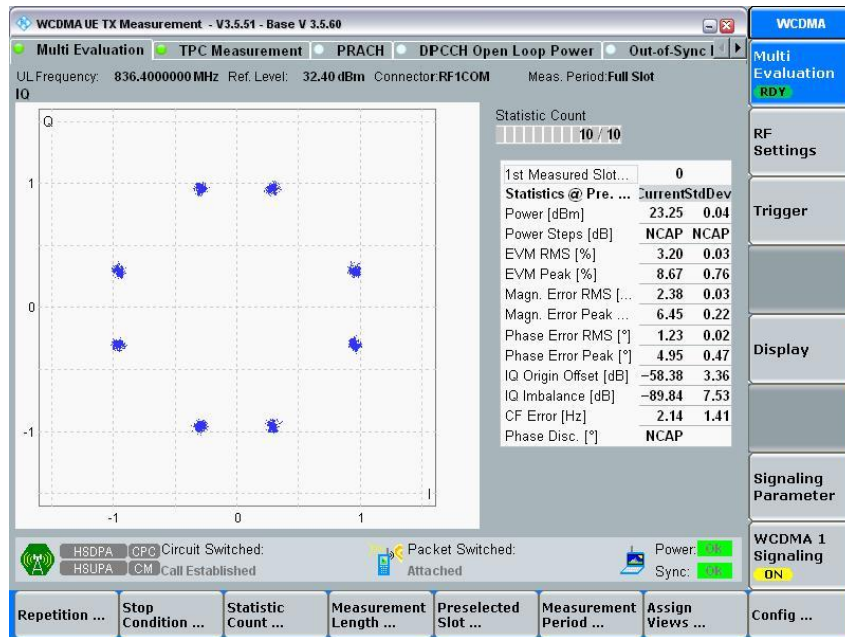


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### 3.2. Test Band = WCDMA Band V

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

##### 3.2.1.1. Test Channel = MCH



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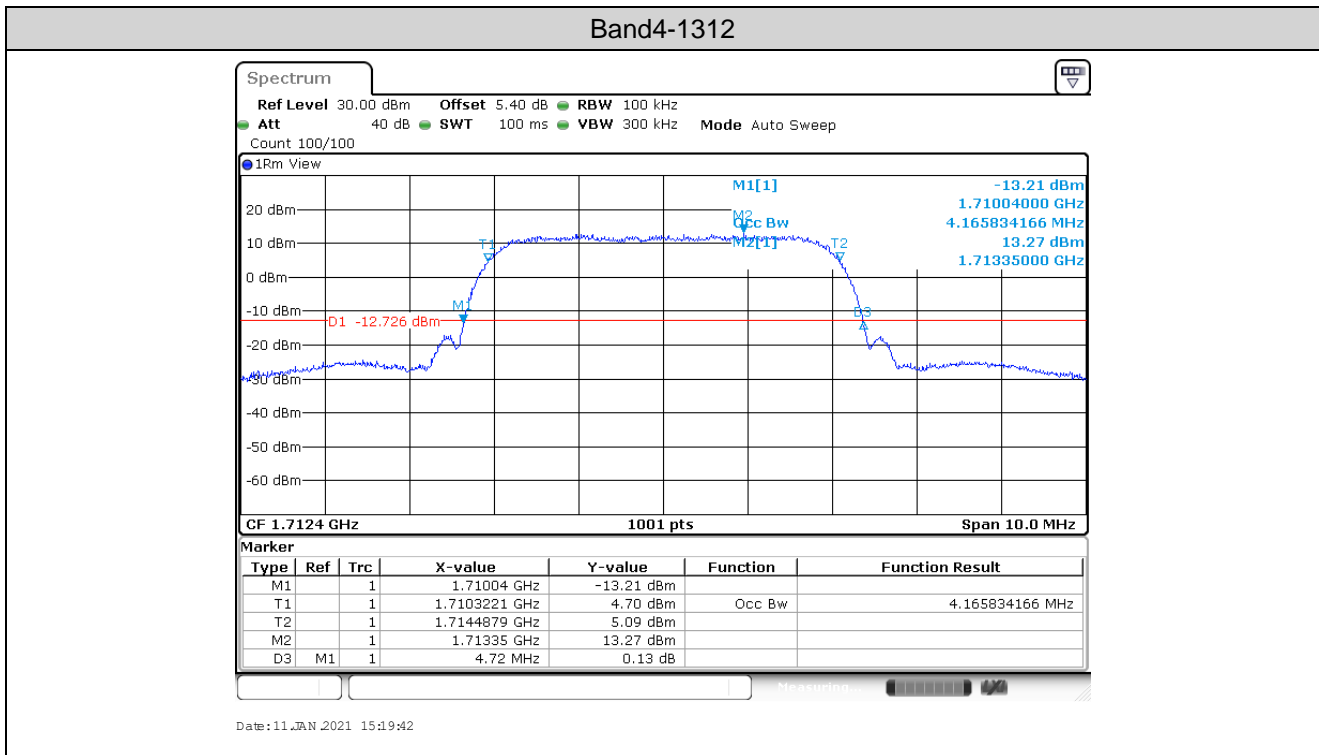
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

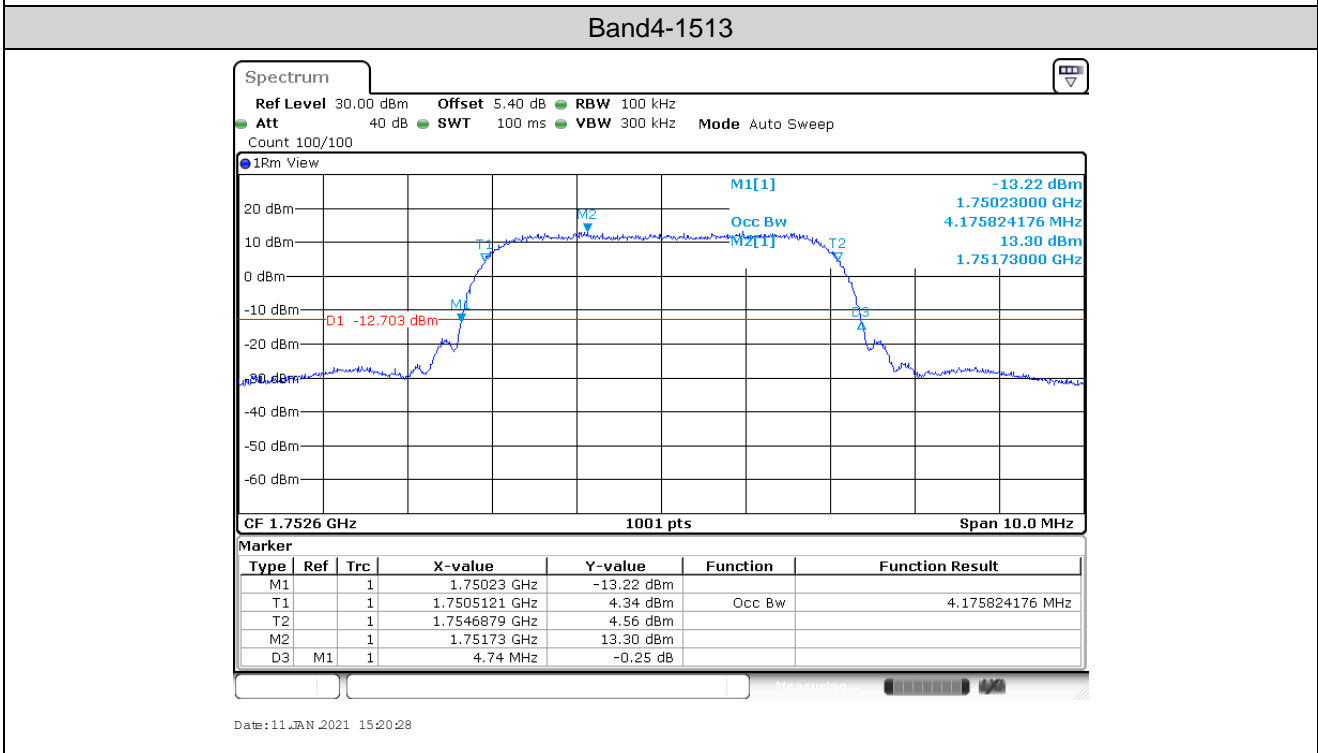
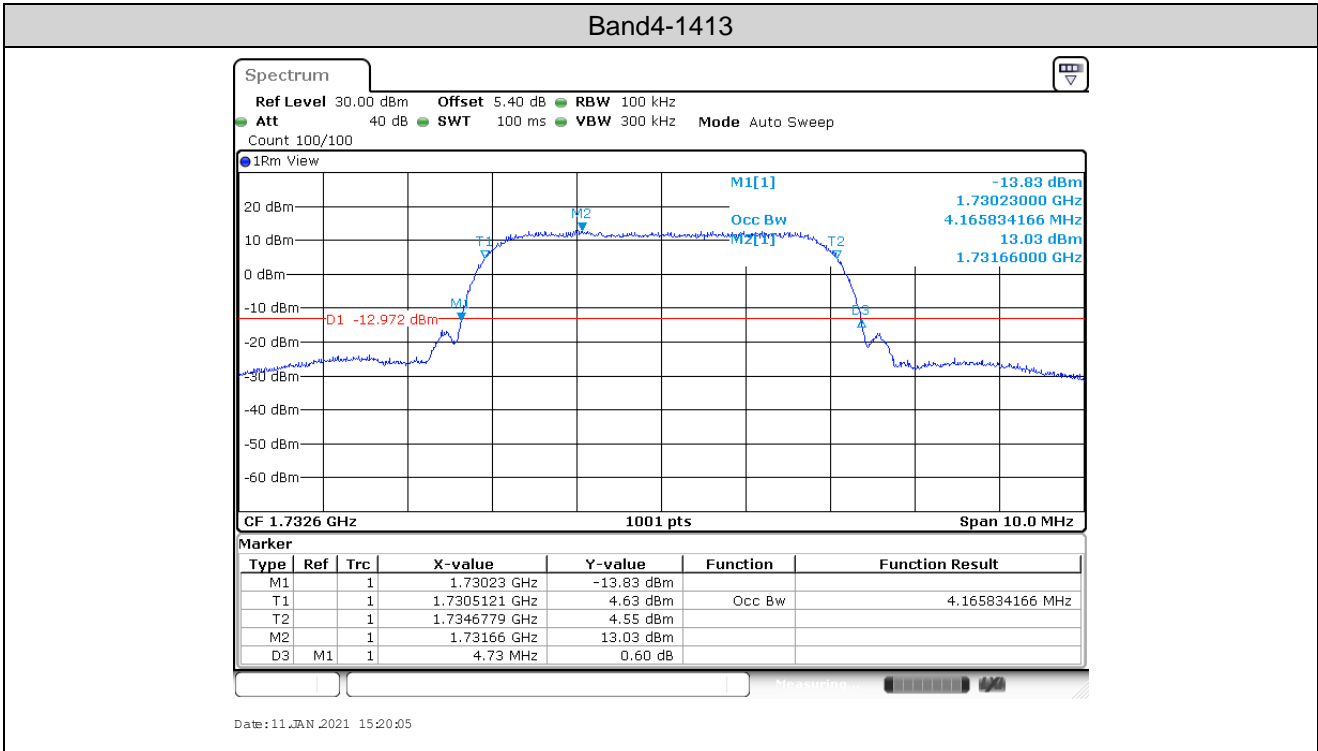
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.166	4.720	---	PASS
Band4	1413	4.166	4.730	---	PASS
Band4	1513	4.176	4.740	---	PASS
Band5	4132	4.156	4.720	---	PASS
Band5	4182	4.146	4.730	---	PASS
Band5	4233	4.146	4.740	---	PASS

### 4.2. Test Plots



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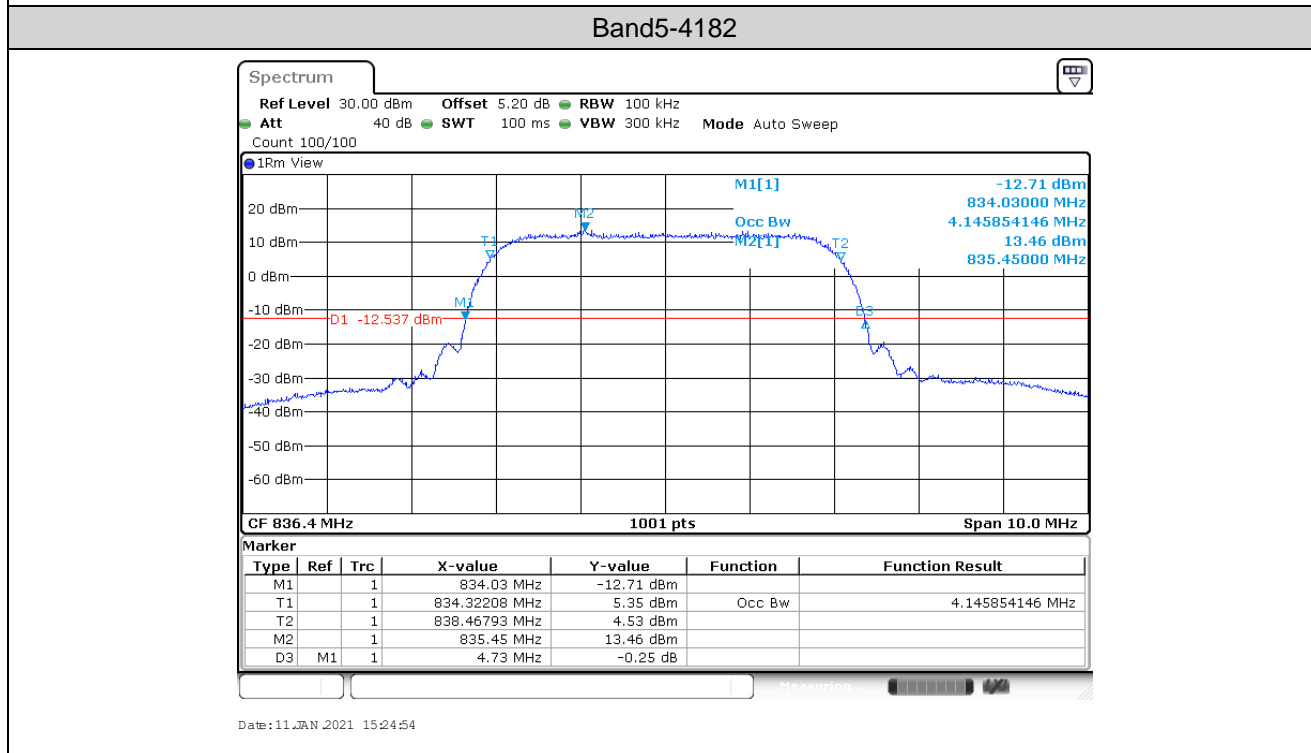
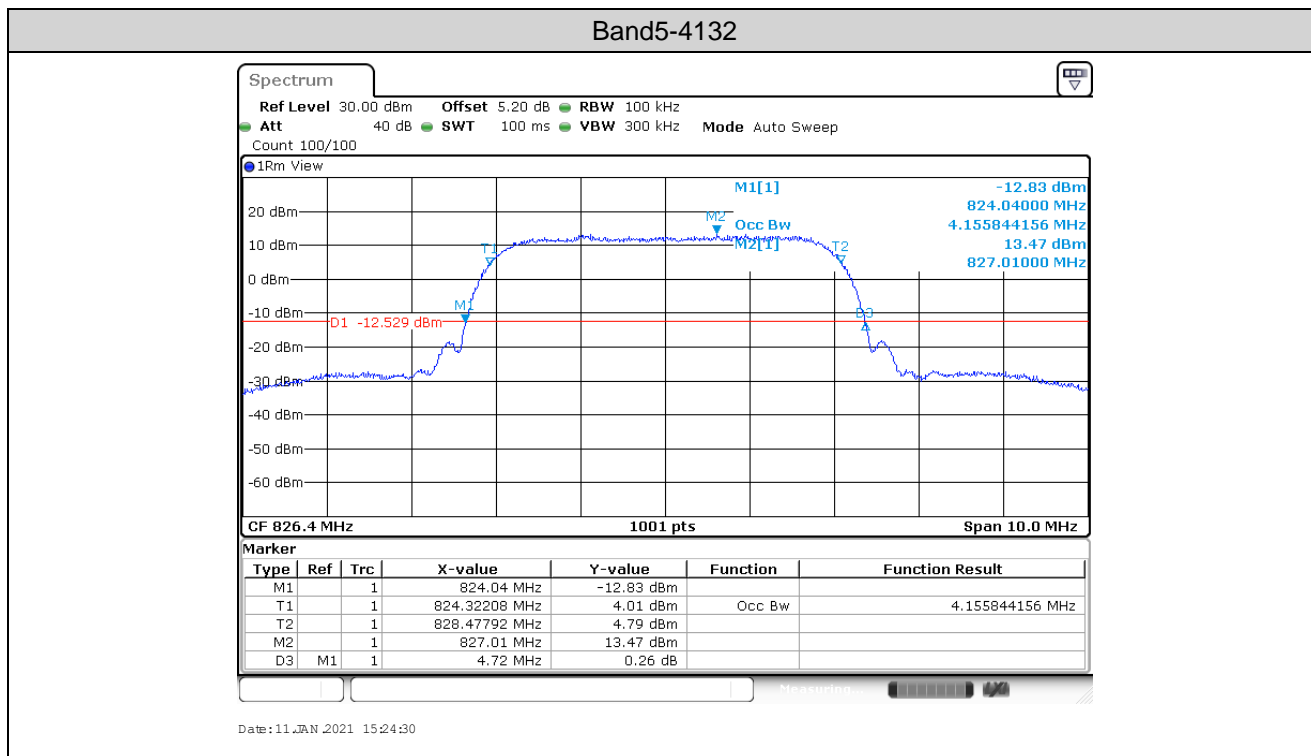
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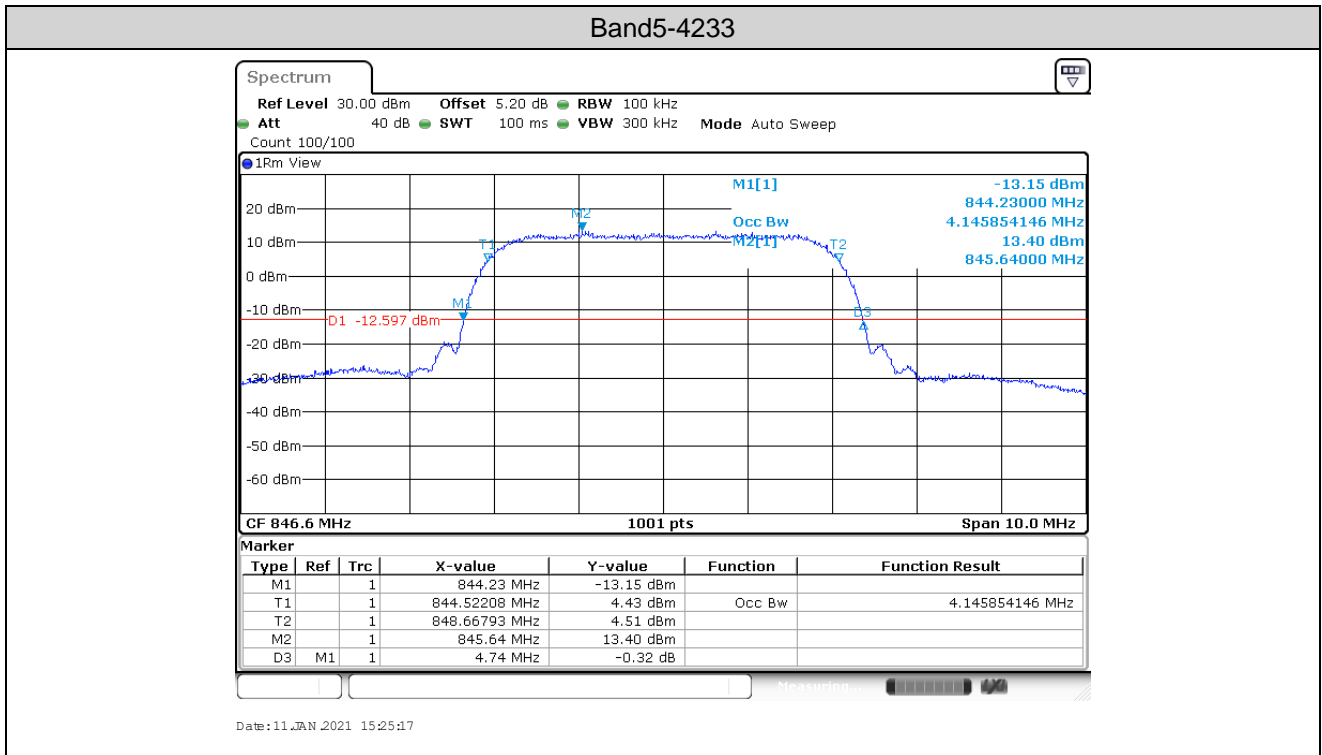
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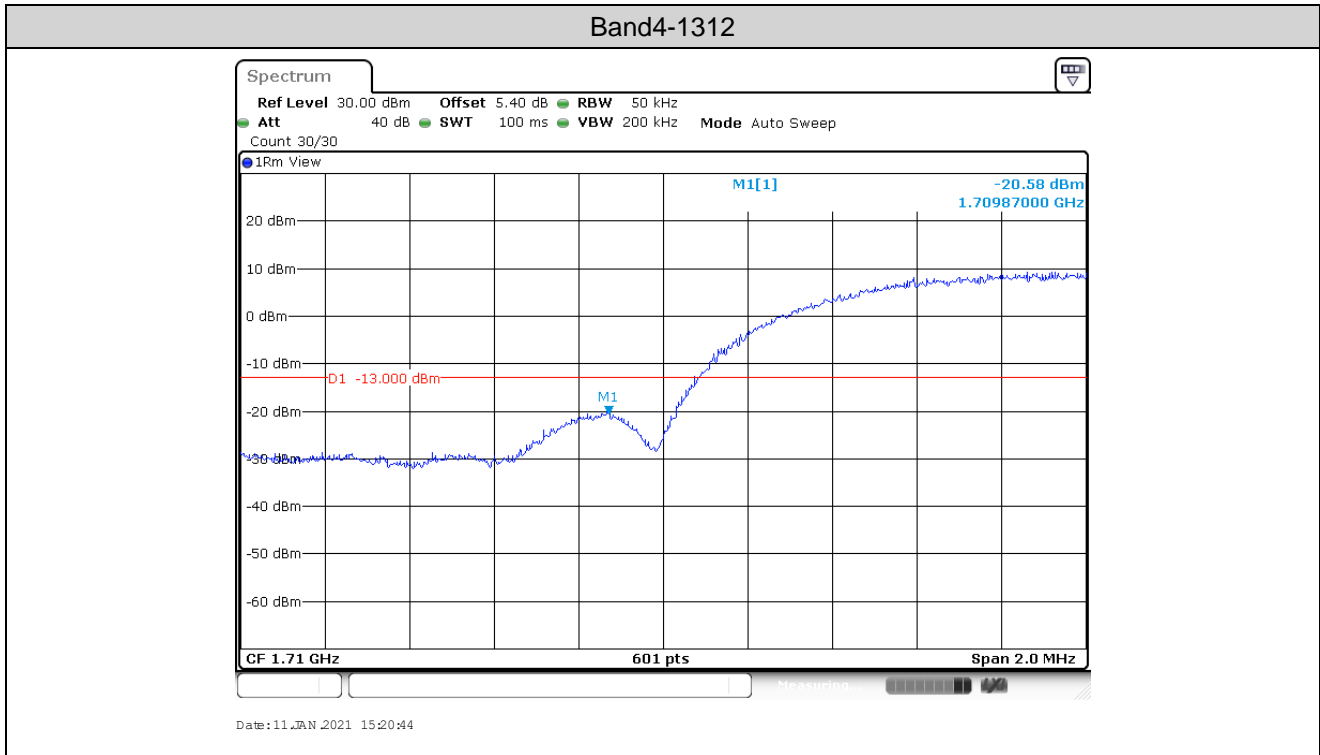
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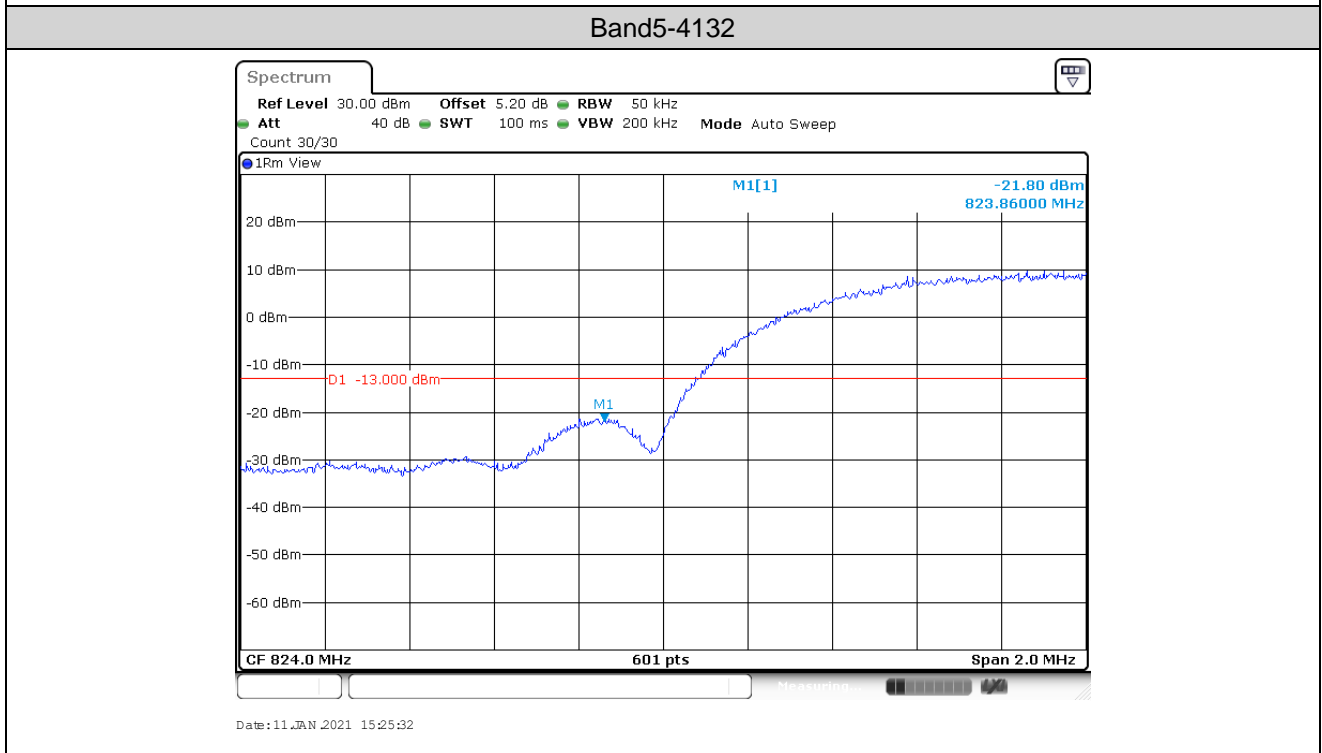
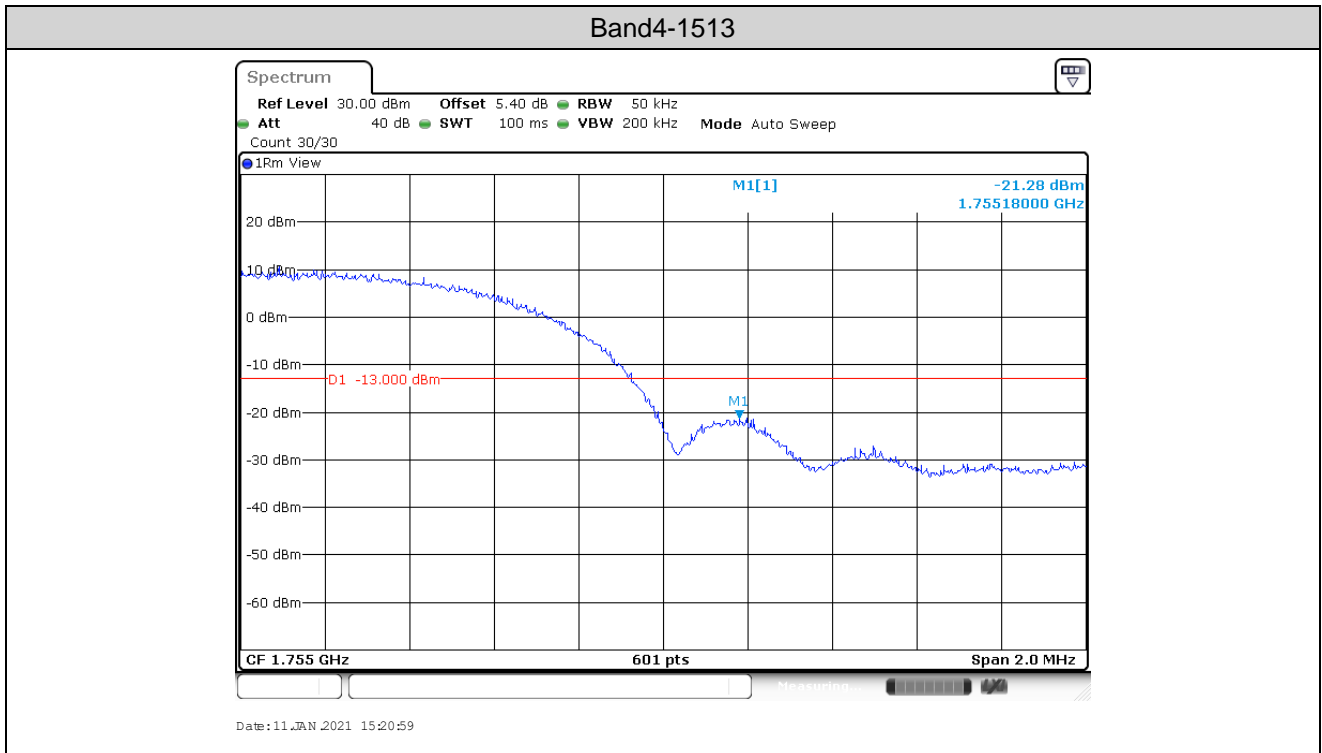
## 5. Band Edge Compliance

### 5.1. Test Plots



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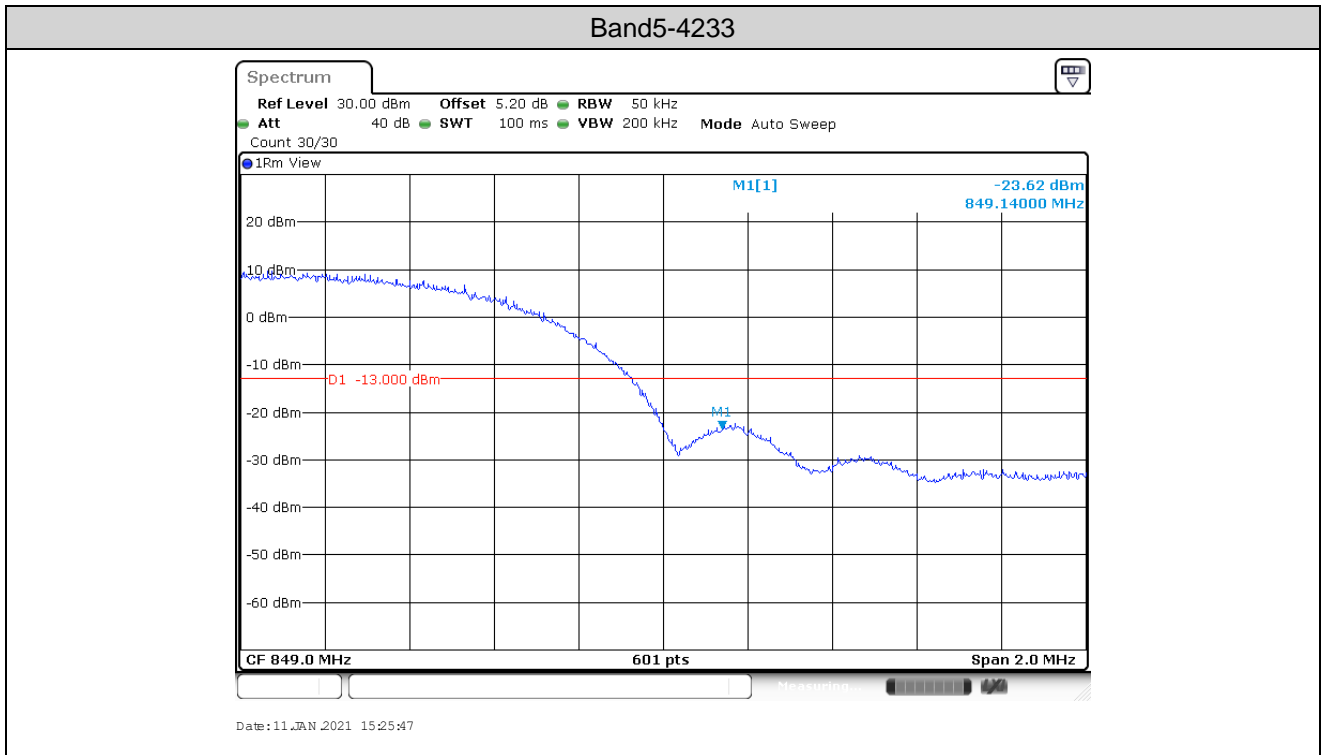
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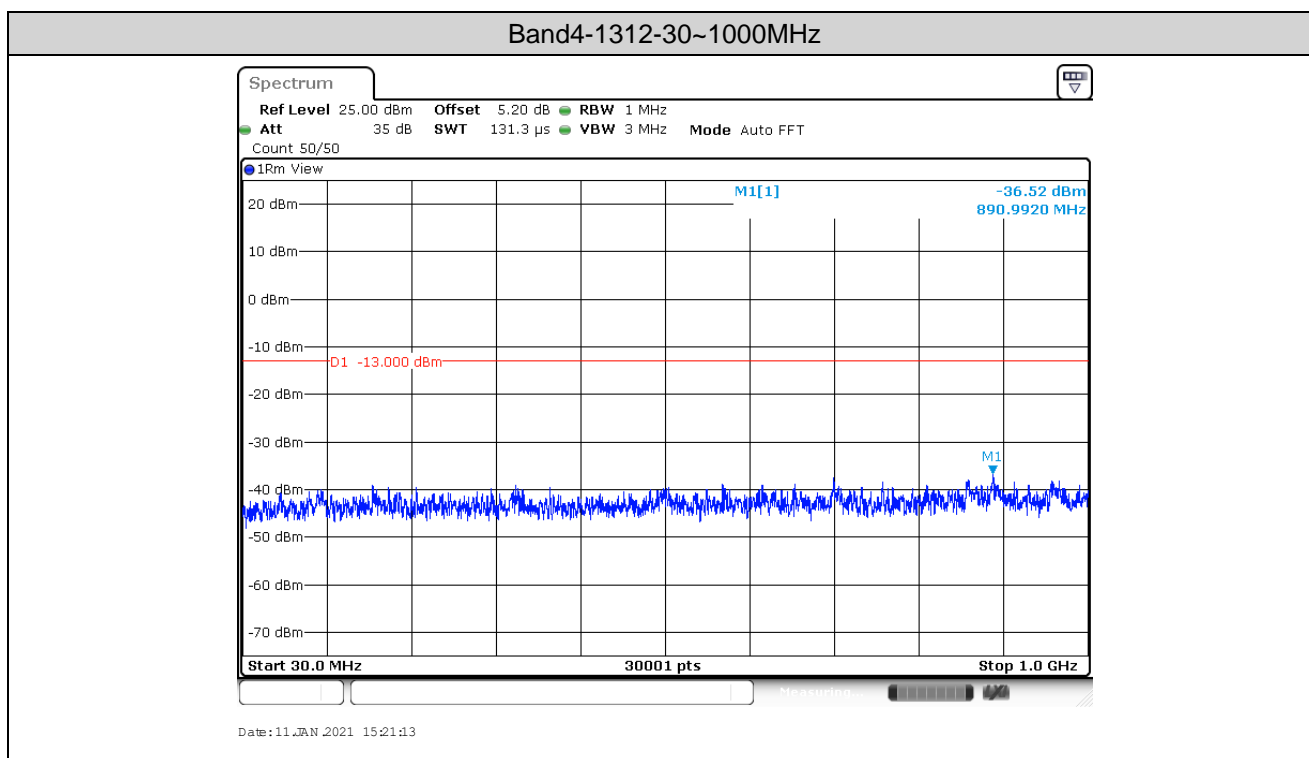
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## 6. Spurious Emission at Antenna Terminal

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.

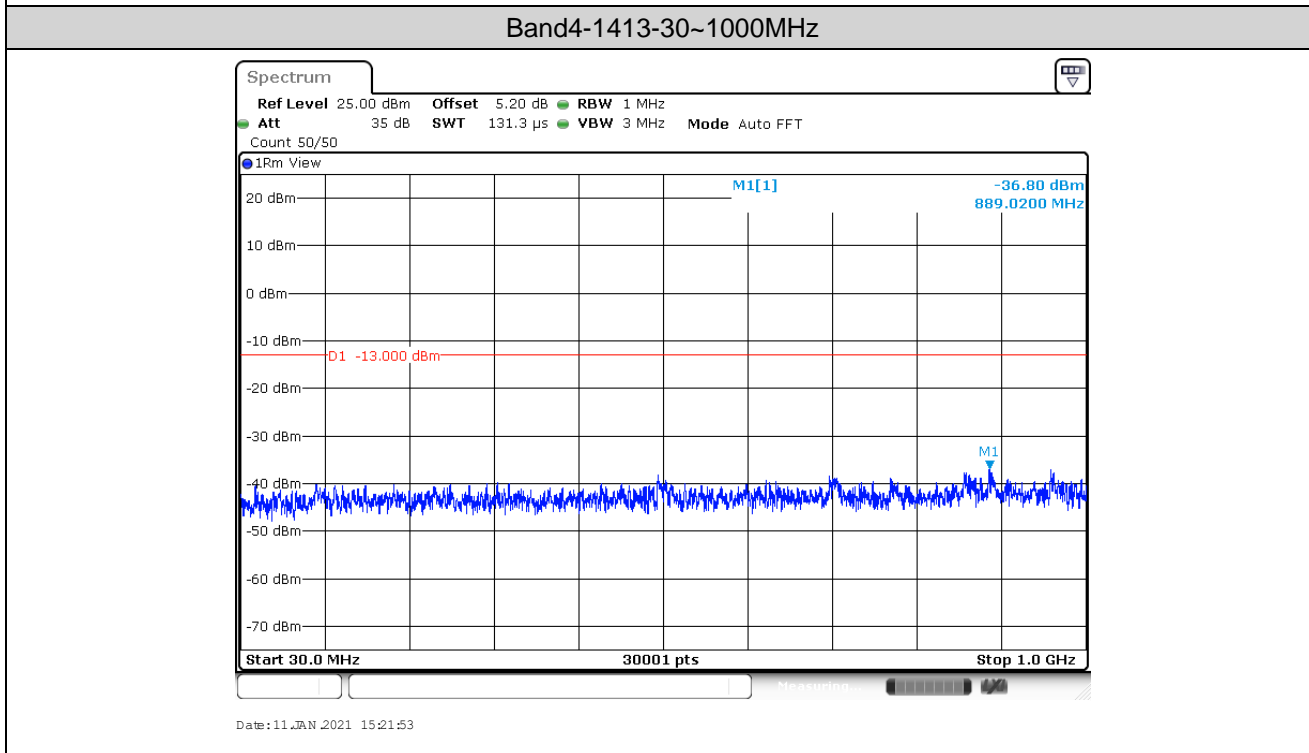
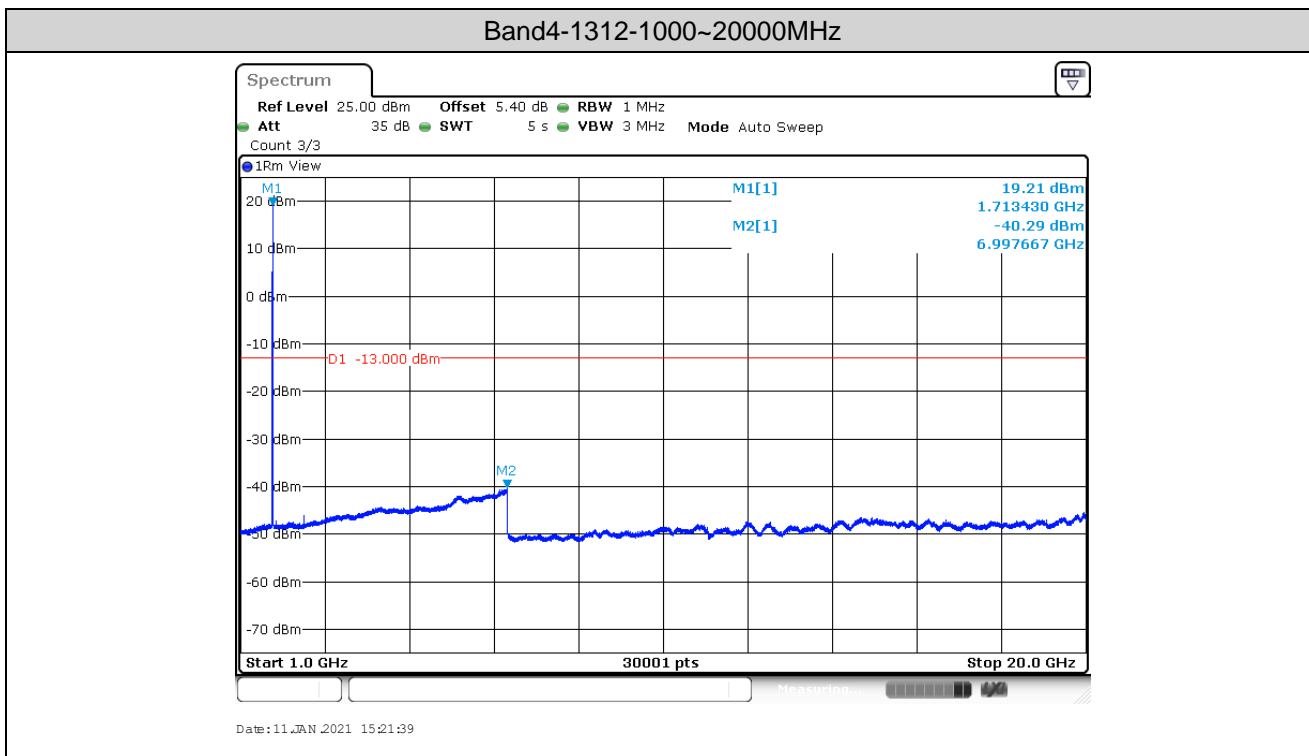
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



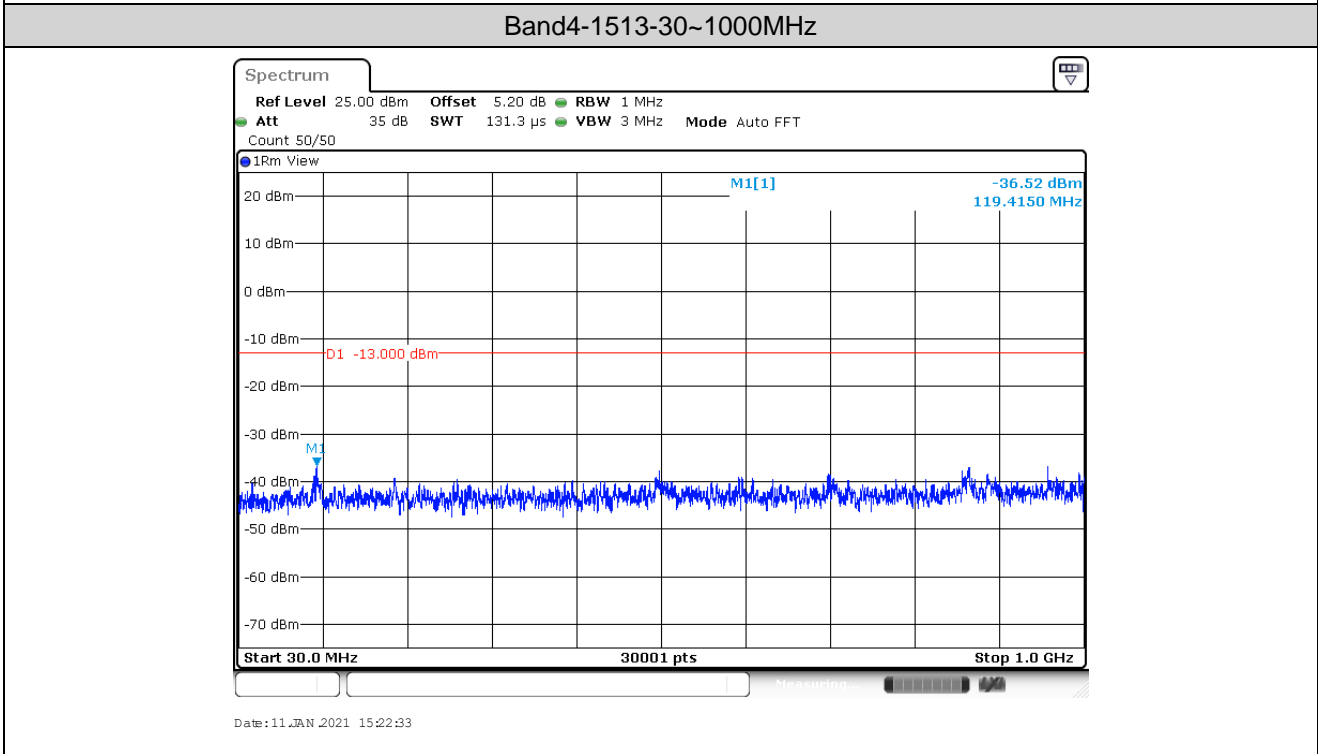
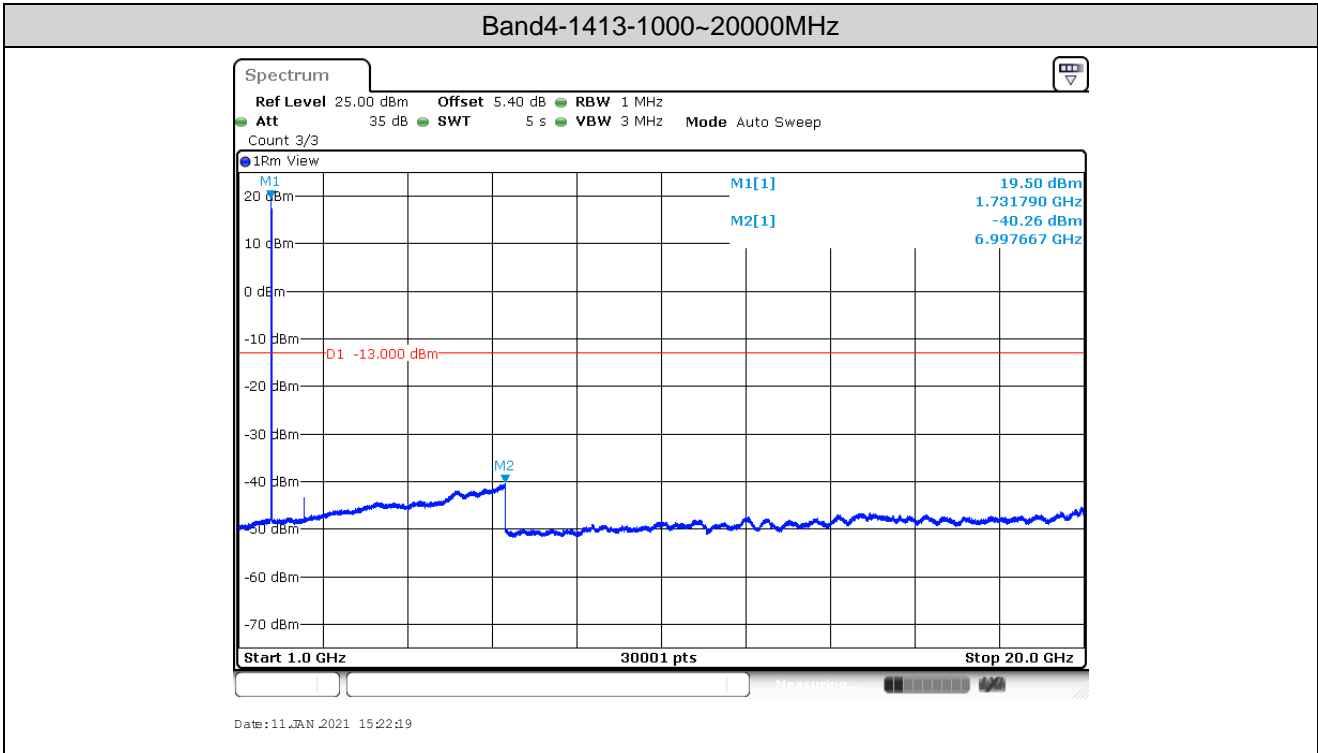
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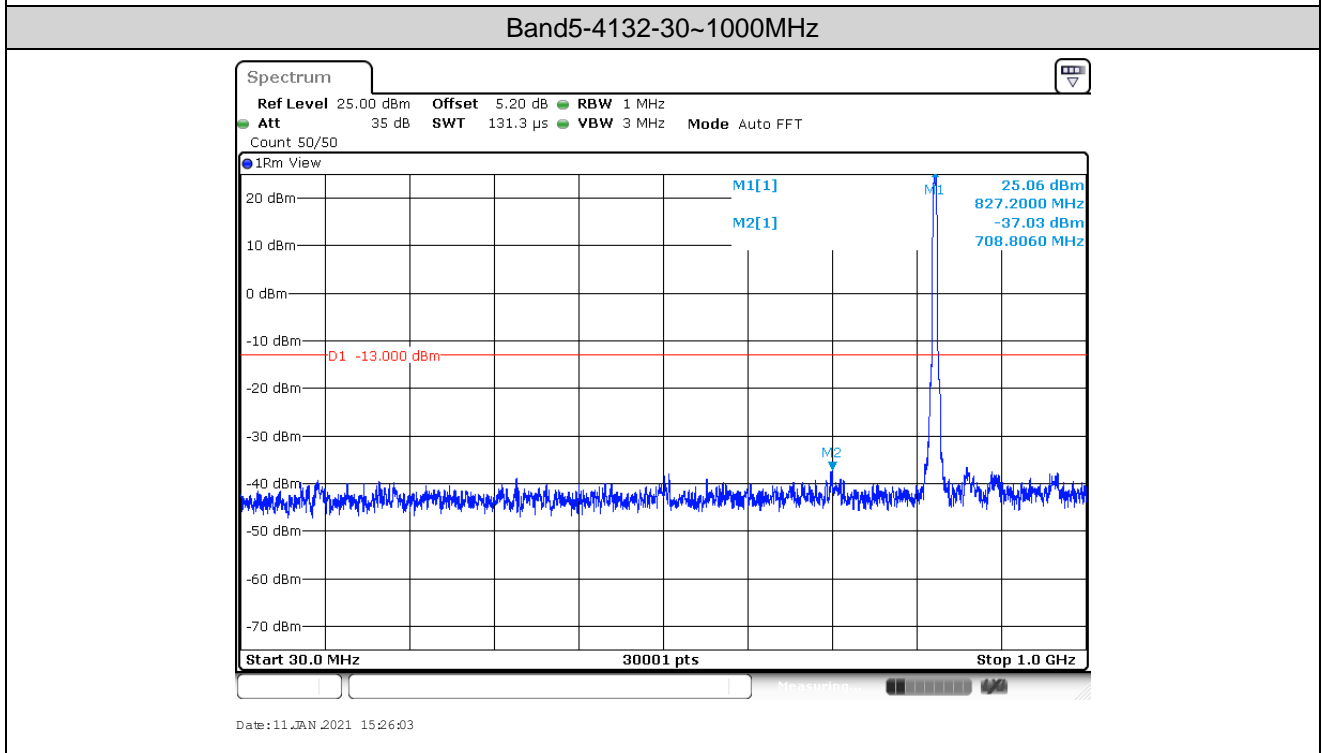
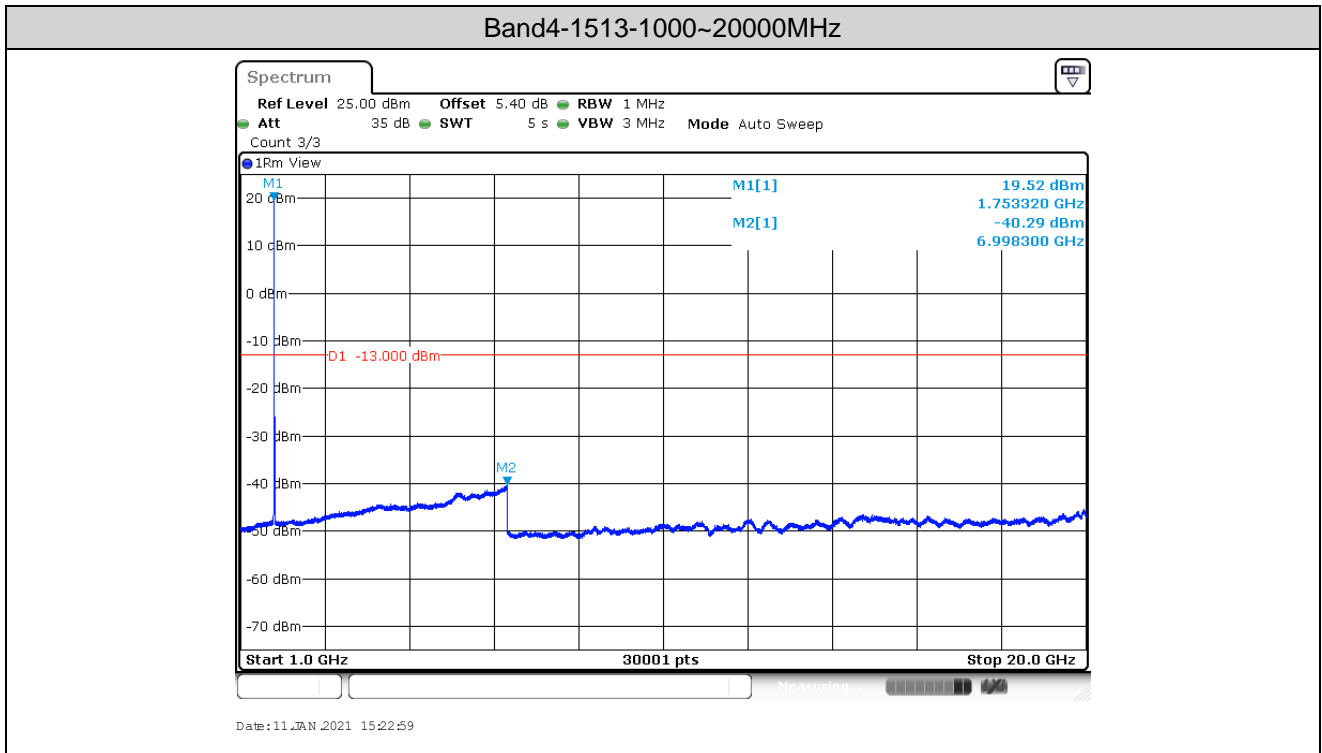
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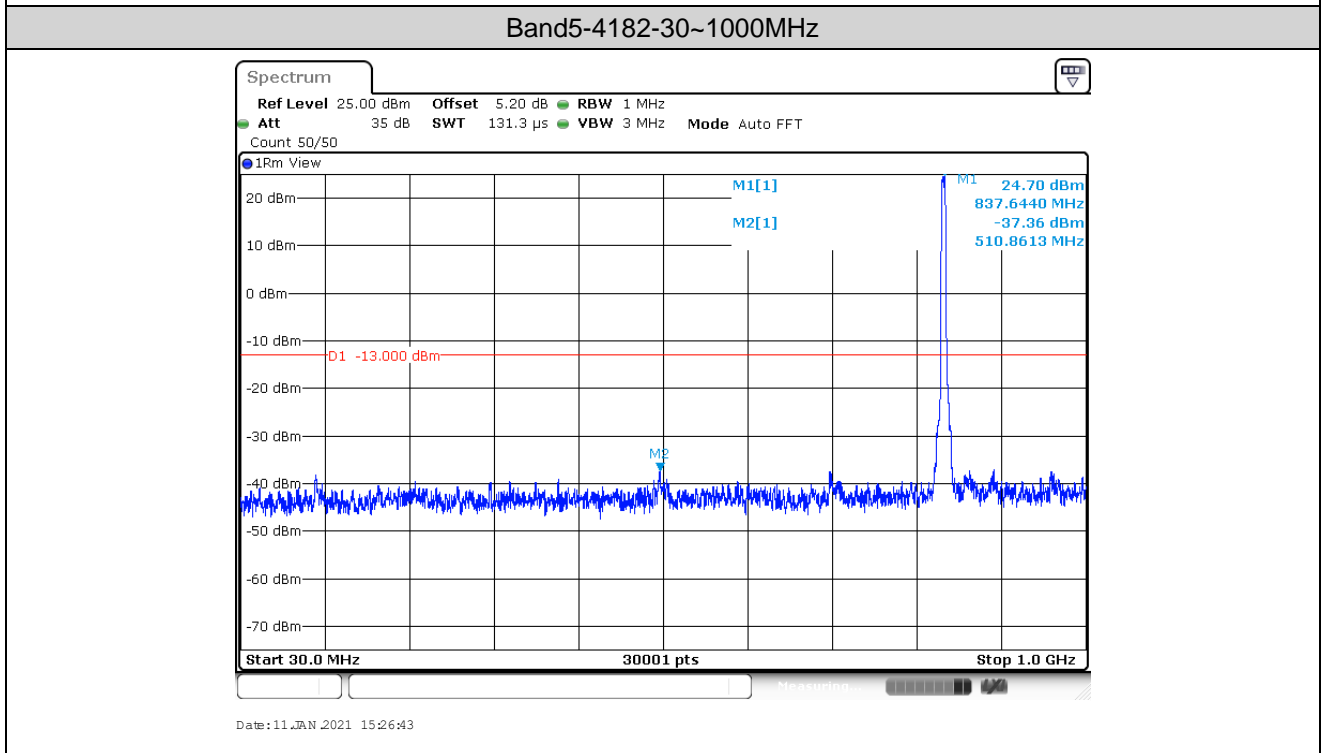
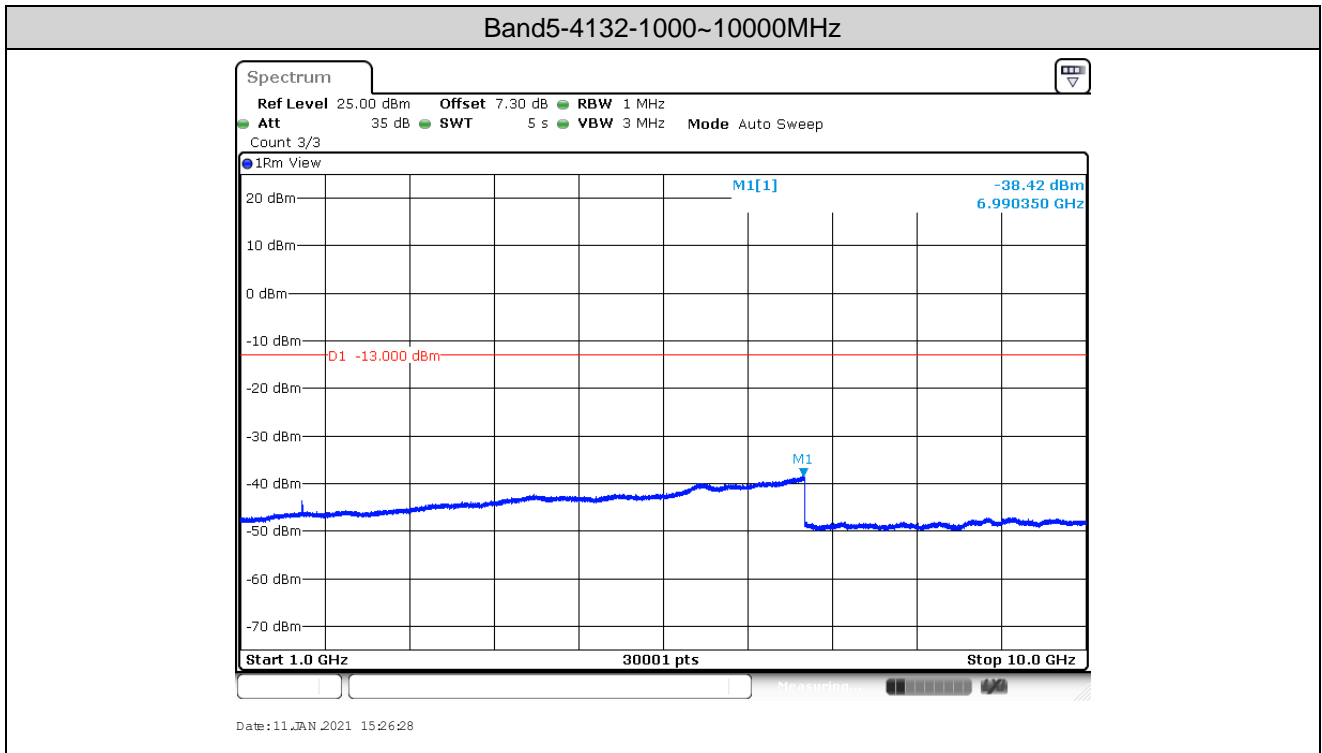
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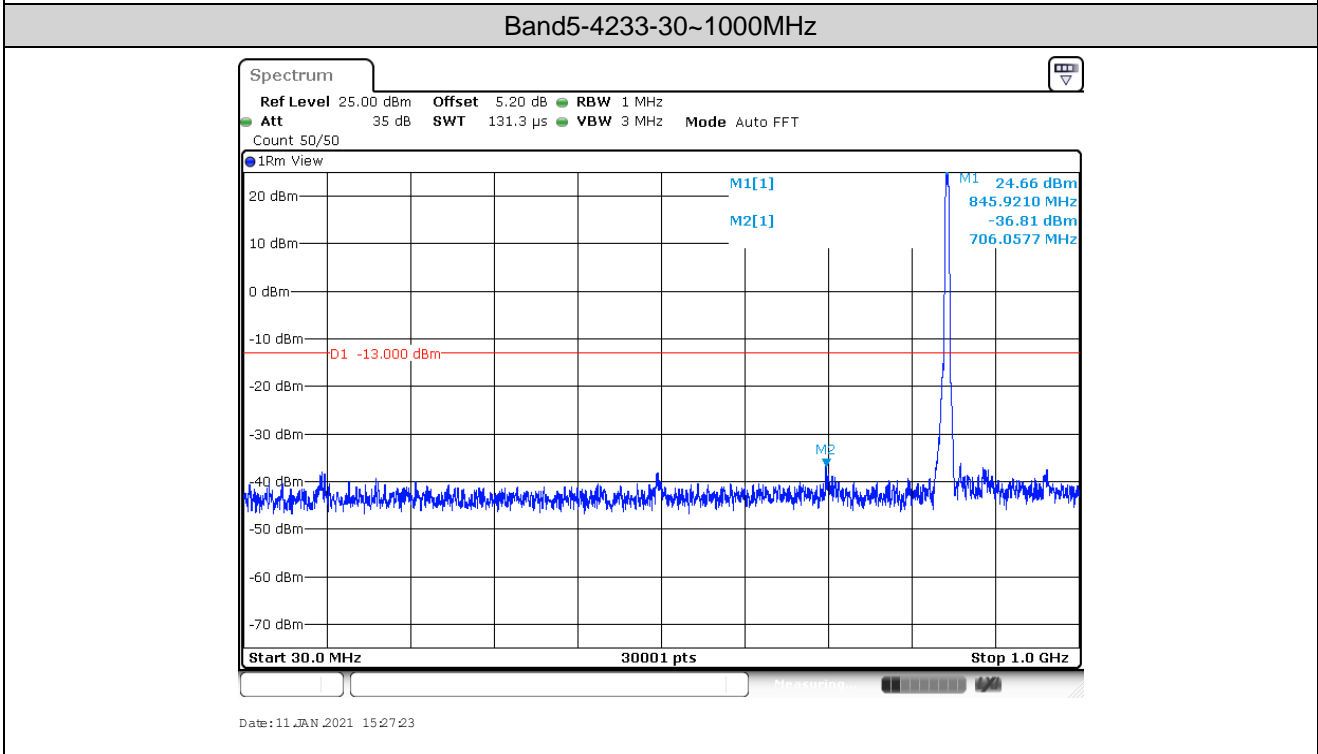
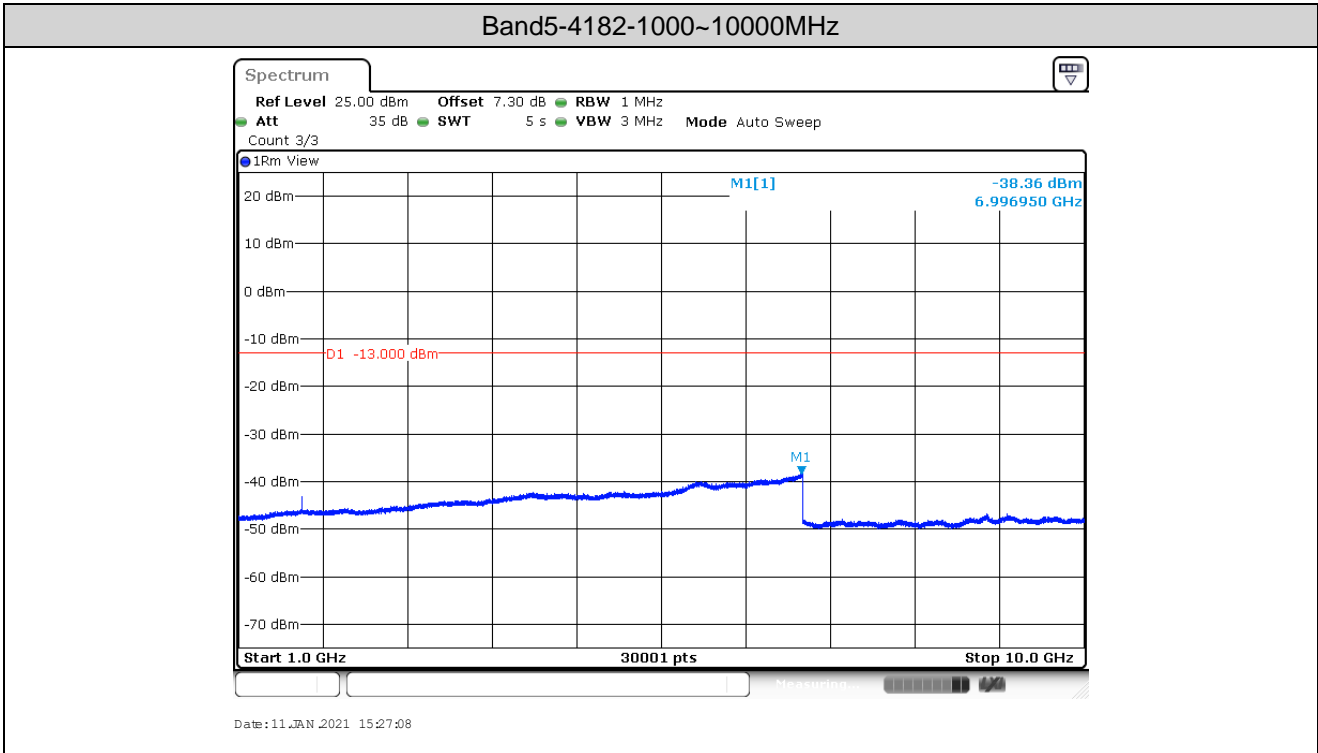
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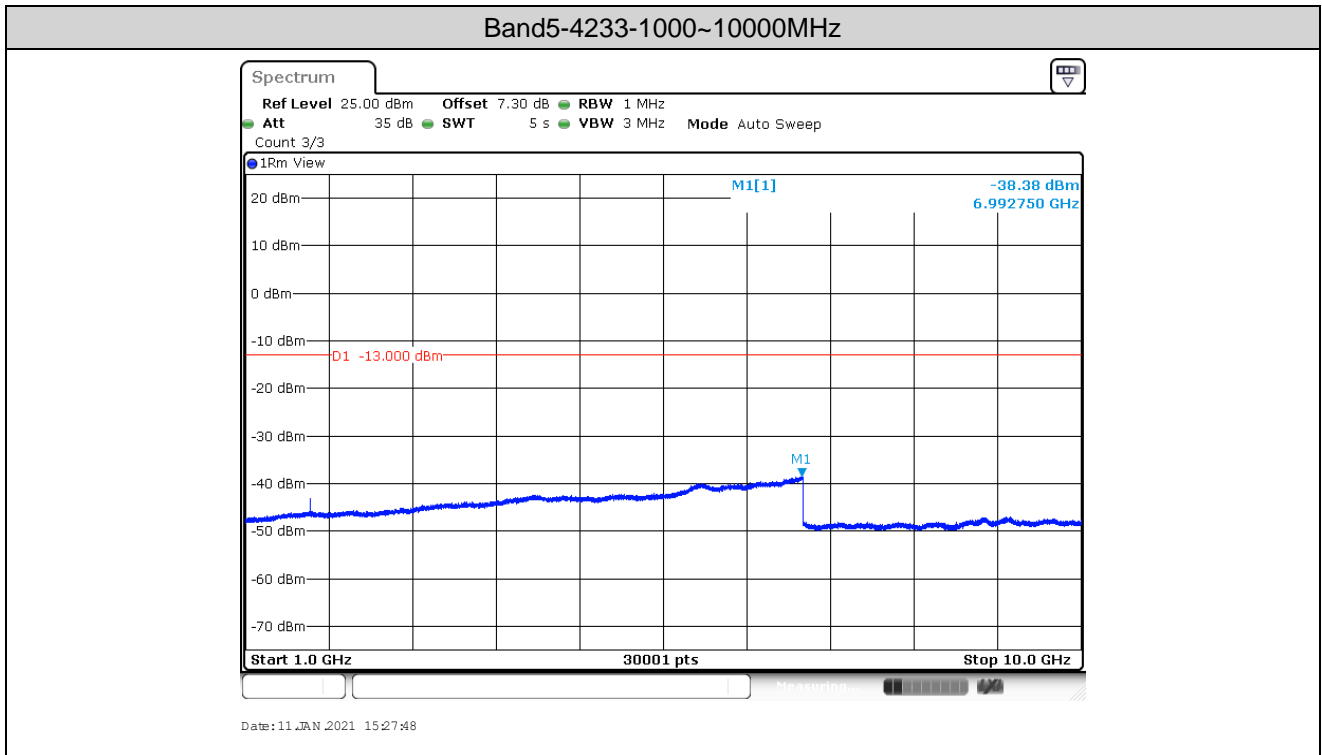
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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA\_IV\_TM1

#### 7.1.1. Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.0358	-61.36	-13.00	48.36	Horizontal
2	230.2180	-65.76	-13.00	52.76	Horizontal
3	625.7068	-59.89	-13.00	46.89	Horizontal
4	3625.5209	-59.05	-13.00	46.05	Horizontal
5	7471.1490	-53.63	-13.00	40.63	Horizontal
6	16399.946	-35.58	-13.00	22.58	Horizontal



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**7.2. Test Band = WCDMA\_IV\_TM1**

**7.2.1. Test Channel = Low Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.6305	-70.64	-13.00	57.64	Vertical
2	107.9434	-62.32	-13.00	49.32	Vertical
3	586.5653	-59.90	-13.00	46.90	Vertical
4	3581.0194	-60.19	-13.00	47.19	Vertical
5	7436.6479	-53.56	-13.00	40.56	Vertical
6	17999.500	-34.51	-13.00	21.51	Vertical



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**7.3. Test Band = WCDMA\_IV\_TM1**  
**7.3.1. Test Channel = Mid Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.0472	-61.36	-13.00	48.36	Horizontal
2	97.6124	-72.54	-13.00	59.54	Horizontal
3	246.9999	-65.10	-13.00	52.10	Horizontal
4	3606.5202	-59.13	-13.00	46.13	Horizontal
5	7458.6486	-53.82	-13.00	40.82	Horizontal
6	16399.946	-35.83	-13.00	22.83	Horizontal



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**7.4. Test Band = WCDMA\_IV\_TM1**

**7.4.1. Test Channel = Mid Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.6305	-70.72	-13.00	57.72	Vertical
2	112.7451	-61.23	-13.00	48.23	Vertical
3	589.1845	-60.18	-13.00	47.18	Vertical
4	5018.0673	-59.91	-13.00	46.91	Vertical
5	7445.6482	-53.03	-13.00	40.03	Vertical
6	17993.499	-34.72	-13.00	21.72	Vertical



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**7.5. Test Band = WCDMA\_IV\_TM1**

**7.5.1. Test Channel = High Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.0957	-61.58	-13.00	48.58	Horizontal
2	83.4012	-71.80	-13.00	58.80	Horizontal
3	231.3336	-65.06	-13.00	52.06	Horizontal
4	3590.0197	-59.03	-13.00	46.03	Horizontal
5	7464.1488	-53.90	-13.00	40.90	Horizontal
6	16402.446	-35.69	-13.00	22.69	Horizontal



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**7.6. Test Band = WCDMA\_IV\_TM1**

**7.6.1. Test Channel = High Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.1940	-71.04	-13.00	58.04	Vertical
2	115.3643	-62.19	-13.00	49.19	Vertical
3	462.2051	-63.35	-13.00	50.35	Vertical
4	3586.5196	-60.08	-13.00	47.08	Vertical
5	7352.1451	-53.63	-13.00	40.63	Vertical
6	17999.000	-34.55	-13.00	21.55	Vertical



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**7.7. Test Band = WCDMA\_V\_TM1**

**7.7.1. Test Channel = Low Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.6591	-63.47	-13.00	50.47	Horizontal
2	98.7764	-74.92	-13.00	61.92	Horizontal
3	241.5676	-68.34	-13.00	55.34	Horizontal
4	1600.1200	-60.49	-13.00	47.49	Horizontal
5	2695.1390	-50.15	-13.00	37.15	Horizontal
6	9303.4768	-52.41	-13.00	39.41	Horizontal



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**7.8. Test Band = WCDMA\_V\_TM1**

**7.8.1. Test Channel = Low Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.0485	-72.77	-13.00	59.77	Vertical
2	109.7380	-64.09	-13.00	51.09	Vertical
3	428.1079	-66.56	-13.00	53.56	Vertical
4	1783.3567	-57.52	-13.00	44.52	Vertical
5	2689.1378	-51.22	-13.00	38.22	Vertical
6	9559.4520	-52.71	-13.00	39.71	Vertical



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**7.9. Test Band = WCDMA\_V\_TM1**

**7.9.1. Test Channel = Mid Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.9573	-63.43	-13.00	50.43	Horizontal
2	101.4441	-74.71	-13.00	61.71	Horizontal
3	248.8914	-68.22	-13.00	55.22	Horizontal
4	1500.1000	-61.07	-13.00	48.07	Horizontal
5	2702.7405	-50.22	-13.00	37.22	Horizontal
6	9300.6767	-52.52	-13.00	39.52	Horizontal



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**7.10. Test Band = WCDMA\_V\_TM1**

**7.10.1. Test Channel = Mid Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.7275	-73.30	-13.00	60.30	Vertical
2	114.8792	-63.85	-13.00	50.85	Vertical
3	386.8323	-67.10	-13.00	54.10	Vertical
4	1663.7327	-59.94	-13.00	46.94	Vertical
5	2848.3697	-51.17	-13.00	38.17	Vertical
6	9839.6947	-52.57	-13.00	39.57	Vertical



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**7.11. Test Band = WCDMA\_V\_TM1**

**7.11.1. Test Channel = High Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.3082	-63.14	-13.00	50.14	Horizontal
2	88.4454	-74.70	-13.00	61.70	Horizontal
3	247.2424	-68.91	-13.00	55.91	Horizontal
4	1818.9638	-58.53	-13.00	45.53	Horizontal
5	2699.9400	-50.06	-13.00	37.06	Horizontal
6	9327.7443	-52.67	-13.00	39.67	Horizontal



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**7.12. Test Band = WCDMA\_V\_TM1**

**7.12.1. Test Channel = High Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.5335	-72.58	-13.00	59.58	Vertical
2	111.5326	-63.98	-13.00	50.98	Vertical
3	609.2160	-62.96	-13.00	49.96	Vertical
4	1602.5205	-60.54	-13.00	47.54	Vertical
5	2448.2897	-51.07	-13.00	38.07	Vertical
6	9310.9437	-52.33	-13.00	39.33	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
Band4	1312	VL	NT	13.53	0.007901	±2.5	PASS
Band4	1312	VN	NT	14.05	0.008205	±2.5	PASS
Band4	1312	VH	NT	13.16	0.007685	±2.5	PASS
Band4	1413	VL	NT	-3.21	-0.001853	±2.5	PASS
Band4	1413	VN	NT	-3.40	-0.001962	±2.5	PASS
Band4	1413	VH	NT	-3.23	-0.001864	±2.5	PASS
Band4	1513	VL	NT	-10.59	-0.006042	±2.5	PASS
Band4	1513	VN	NT	-10.74	-0.006128	±2.5	PASS
Band4	1513	VH	NT	-10.51	-0.005997	±2.5	PASS
Band5	4132	VL	NT	1.93	0.002335	±2.5	PASS
Band5	4132	VN	NT	2.07	0.002505	±2.5	PASS
Band5	4132	VH	NT	1.93	0.002335	±2.5	PASS
Band5	4182	VL	NT	0.01	0.000012	±2.5	PASS
Band5	4182	VN	NT	-0.01	-0.000012	±2.5	PASS
Band5	4182	VH	NT	-0.10	-0.000120	±2.5	PASS
Band5	4233	VL	NT	-1.41	-0.001665	±2.5	PASS
Band5	4233	VN	NT	-1.37	-0.001618	±2.5	PASS
Band5	4233	VH	NT	-1.42	-0.001677	±2.5	PASS

### 8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	12.76	0.007452	±2.5	PASS
Band4	1312	NV	-20	12.73	0.007434	±2.5	PASS
Band4	1312	NV	-10	12.92	0.007545	±2.5	PASS
Band4	1312	NV	0	12.75	0.007446	±2.5	PASS
Band4	1312	NV	10	12.82	0.007487	±2.5	PASS
Band4	1312	NV	20	12.48	0.007288	±2.5	PASS
Band4	1312	NV	30	12.44	0.007265	±2.5	PASS



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Band4	1312	NV	40	12.52	0.007311	±2.5	PASS
Band4	1312	NV	50	12.47	0.007282	±2.5	PASS
Band4	1413	NV	-30	-3.25	-0.001876	±2.5	PASS
Band4	1413	NV	-20	-3.35	-0.001934	±2.5	PASS
Band4	1413	NV	-10	-3.03	-0.001749	±2.5	PASS
Band4	1413	NV	0	-3.09	-0.001783	±2.5	PASS
Band4	1413	NV	10	-3.44	-0.001985	±2.5	PASS
Band4	1413	NV	20	-3.25	-0.001876	±2.5	PASS
Band4	1413	NV	30	-3.23	-0.001864	±2.5	PASS
Band4	1413	NV	40	-3.21	-0.001853	±2.5	PASS
Band4	1413	NV	50	-3.29	-0.001899	±2.5	PASS
Band4	1513	NV	-30	-10.46	-0.005968	±2.5	PASS
Band4	1513	NV	-20	-10.53	-0.006008	±2.5	PASS
Band4	1513	NV	-10	-10.52	-0.006003	±2.5	PASS
Band4	1513	NV	0	-10.43	-0.005951	±2.5	PASS
Band4	1513	NV	10	-10.51	-0.005997	±2.5	PASS
Band4	1513	NV	20	-10.44	-0.005957	±2.5	PASS
Band4	1513	NV	30	-10.64	-0.006071	±2.5	PASS
Band4	1513	NV	40	-10.51	-0.005997	±2.5	PASS
Band4	1513	NV	50	-10.57	-0.006031	±2.5	PASS
Band5	4132	NV	-30	1.85	0.002239	±2.5	PASS
Band5	4132	NV	-20	1.76	0.002130	±2.5	PASS
Band5	4132	NV	-10	1.60	0.001936	±2.5	PASS
Band5	4132	NV	0	1.69	0.002045	±2.5	PASS
Band5	4132	NV	10	1.70	0.002057	±2.5	PASS
Band5	4132	NV	20	1.52	0.001839	±2.5	PASS
Band5	4132	NV	30	1.66	0.002009	±2.5	PASS
Band5	4132	NV	40	1.61	0.001948	±2.5	PASS
Band5	4132	NV	50	1.52	0.001839	±2.5	PASS
Band5	4182	NV	-30	0.03	0.000036	±2.5	PASS
Band5	4182	NV	-20	-0.04	-0.000048	±2.5	PASS
Band5	4182	NV	-10	0.01	0.000012	±2.5	PASS
Band5	4182	NV	0	-0.21	-0.000251	±2.5	PASS
Band5	4182	NV	10	0.04	0.000048	±2.5	PASS
Band5	4182	NV	20	-0.11	-0.000132	±2.5	PASS
Band5	4182	NV	30	-0.01	-0.000012	±2.5	PASS
Band5	4182	NV	40	0.01	0.000012	±2.5	PASS



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Band5	4182	NV	50	-0.01	-0.000012	±2.5	PASS
Band5	4233	NV	-30	-1.54	-0.001819	±2.5	PASS
Band5	4233	NV	-20	-1.36	-0.001606	±2.5	PASS
Band5	4233	NV	-10	-1.41	-0.001665	±2.5	PASS
Band5	4233	NV	0	-1.40	-0.001654	±2.5	PASS
Band5	4233	NV	10	-1.42	-0.001677	±2.5	PASS
Band5	4233	NV	20	-1.41	-0.001665	±2.5	PASS
Band5	4233	NV	30	-1.36	-0.001606	±2.5	PASS
Band5	4233	NV	40	-1.40	-0.001654	±2.5	PASS
Band5	4233	NV	50	-1.23	-0.001453	±2.5	PASS

The End



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