

# Appendix B

## WCDMA Band II & IV & V



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# 1. Effective (Isotropic) Radiated Power

## 1.1. Test Result

### Down Antenna:

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.17	17.77	33.00	PASS
Band II	9400	23.41	18.01	33.00	PASS
Band II	9538	23.42	18.02	33.00	PASS
Band IV	1312	23.11	22.11	30.00	PASS
Band IV	1413	23.07	22.07	30.00	PASS
Band IV	1513	23.00	22	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.20	20.45	38.45	PASS
Band V	4182	23.41	20.66	38.45	PASS
Band V	4233	23.56	20.81	38.45	PASS

### Up Antenna:

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	19.69	16.59	33.00	PASS
Band II	9400	19.67	16.57	33.00	PASS
Band II	9538	19.66	16.56	33.00	PASS
Band IV	1312	19.32	13.02	30.00	PASS
Band IV	1413	19.40	13.1	30.00	PASS
Band IV	1513	19.82	13.52	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.11	15.66	38.45	PASS
Band V	4182	23.31	15.86	38.45	PASS
Band V	4233	23.25	15.8	38.45	PASS

Remark:

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

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

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



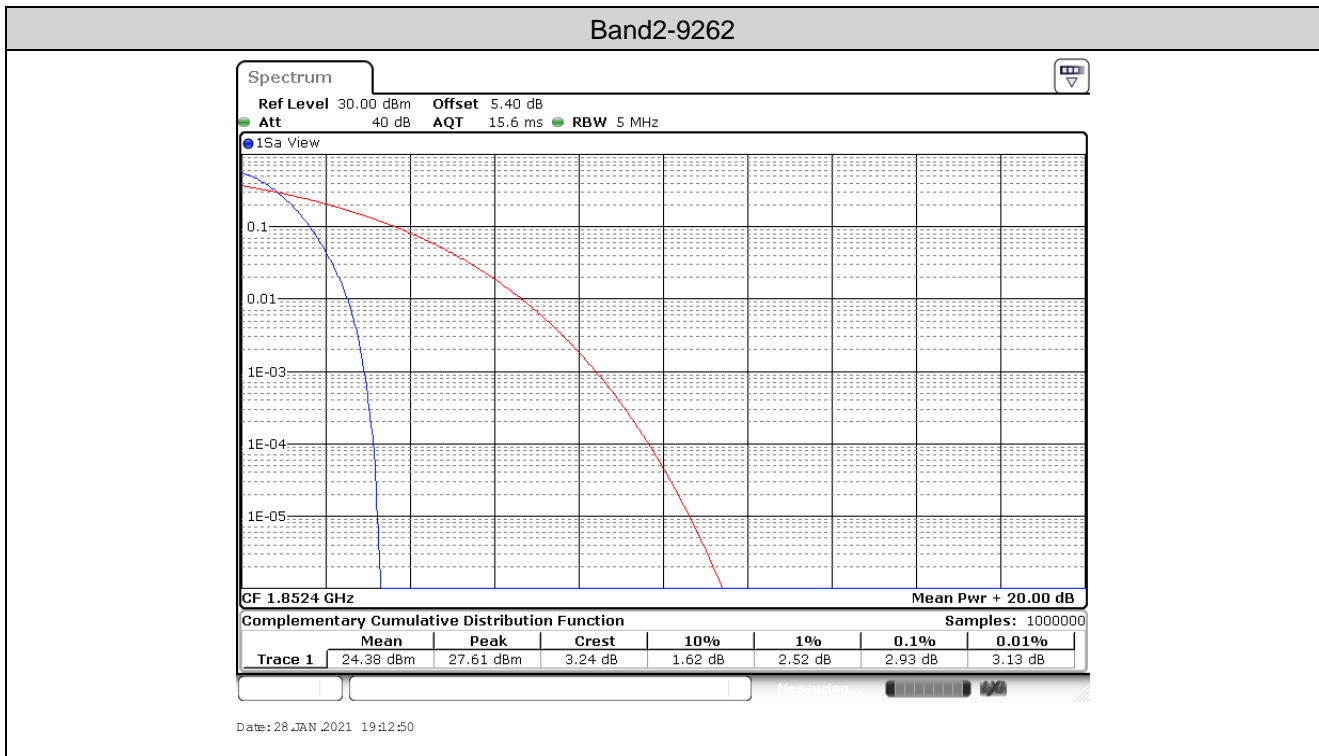
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.93	13	PASS
Band2	9400	2.96	13	PASS
Band2	9538	2.87	13	PASS
Band4	1312	2.93	13	PASS
Band4	1413	3.16	13	PASS
Band4	1513	2.9	13	PASS
Band5	4132	3.16	13	PASS
Band5	4182	3.19	13	PASS
Band5	4233	3.13	13	PASS

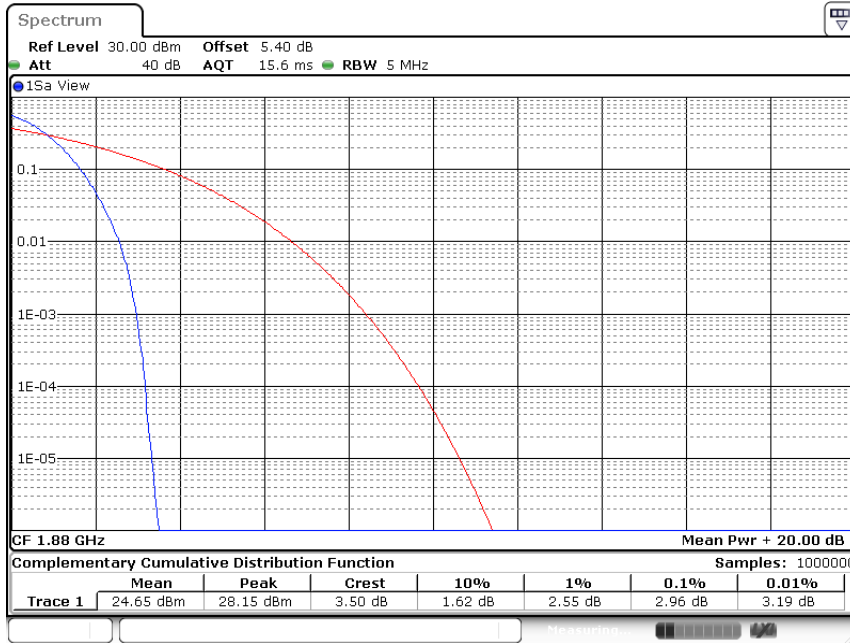
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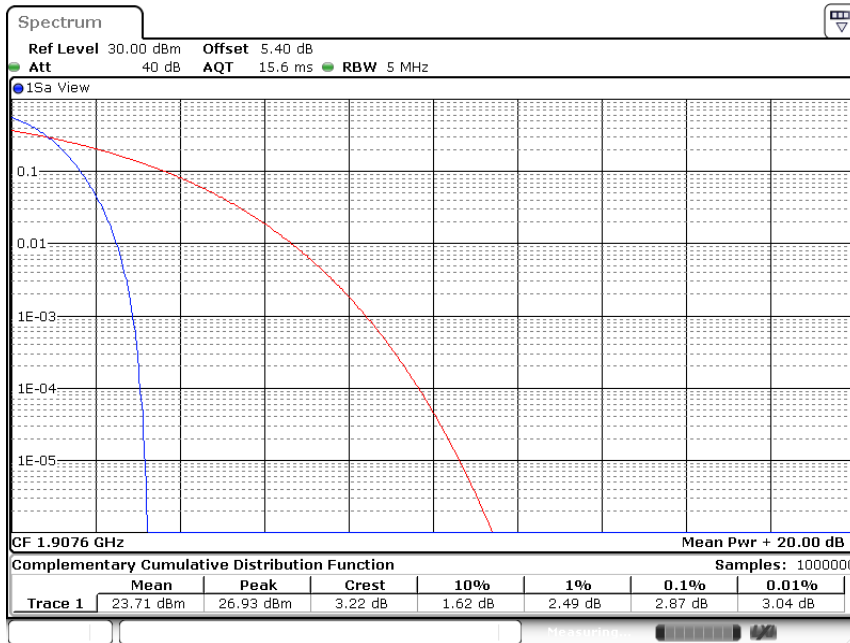
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**Band2-9400**



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**Band2-9538**

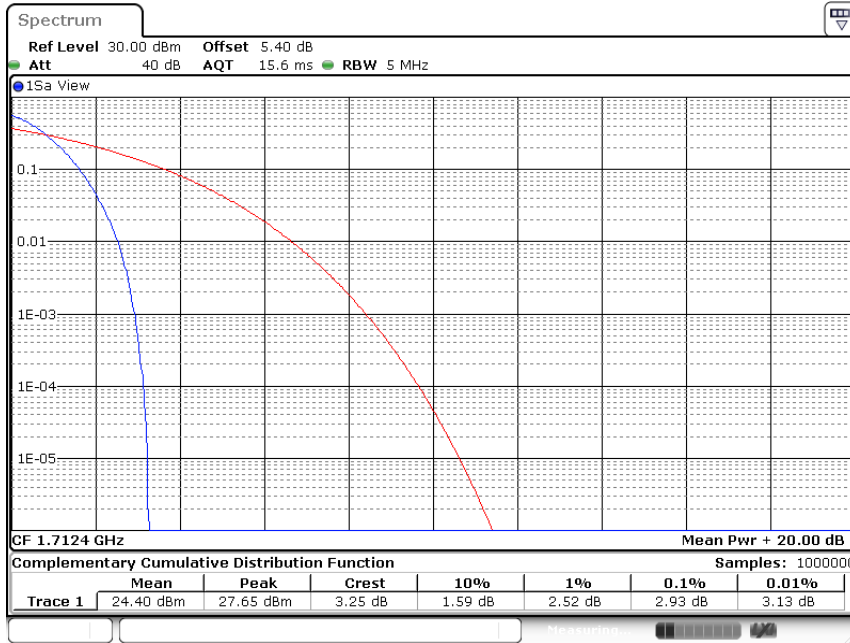


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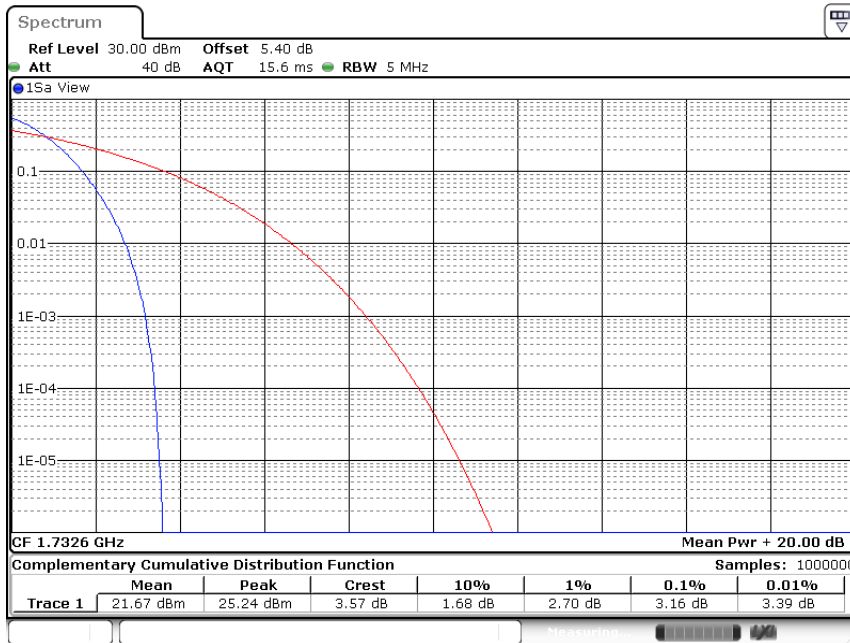
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**Band4-1312**



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**Band4-1413**



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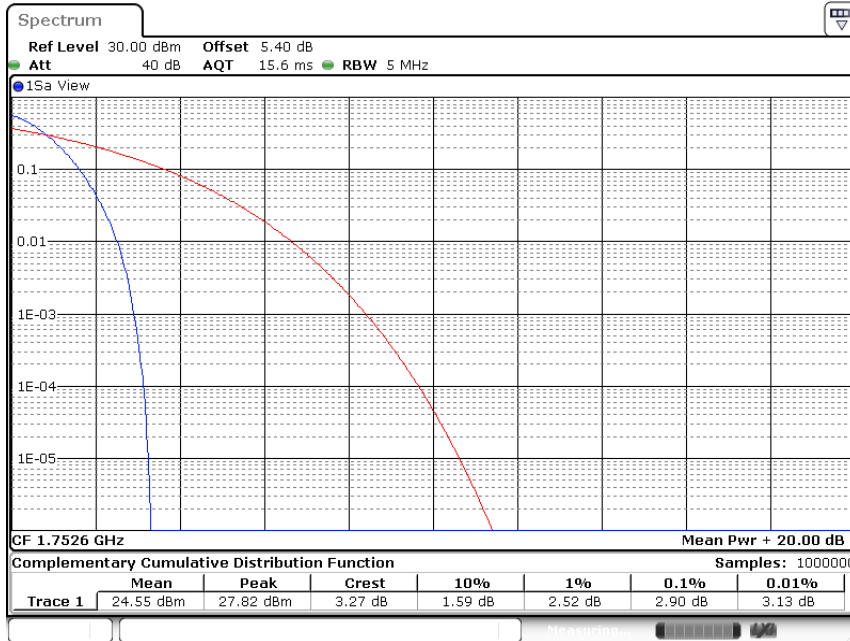


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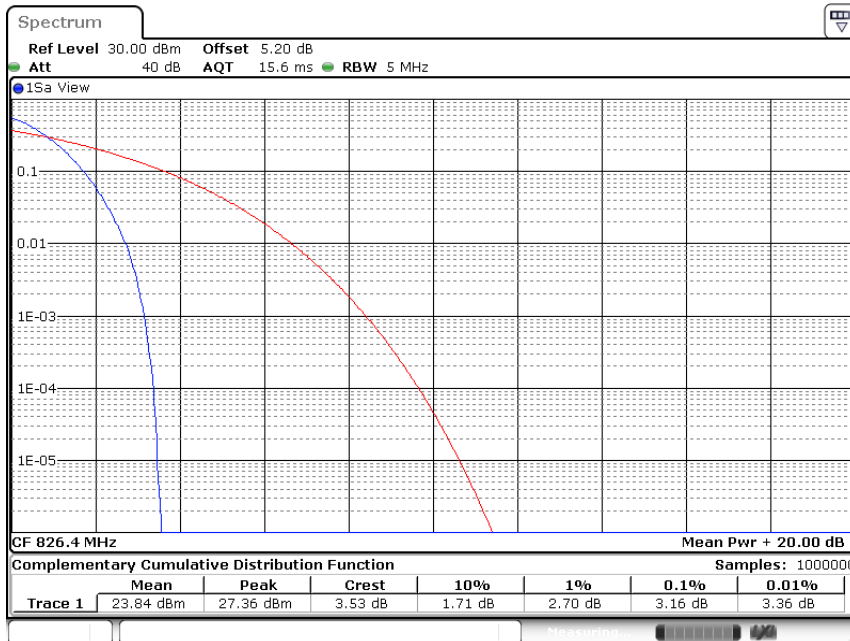


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**Band5-4132**



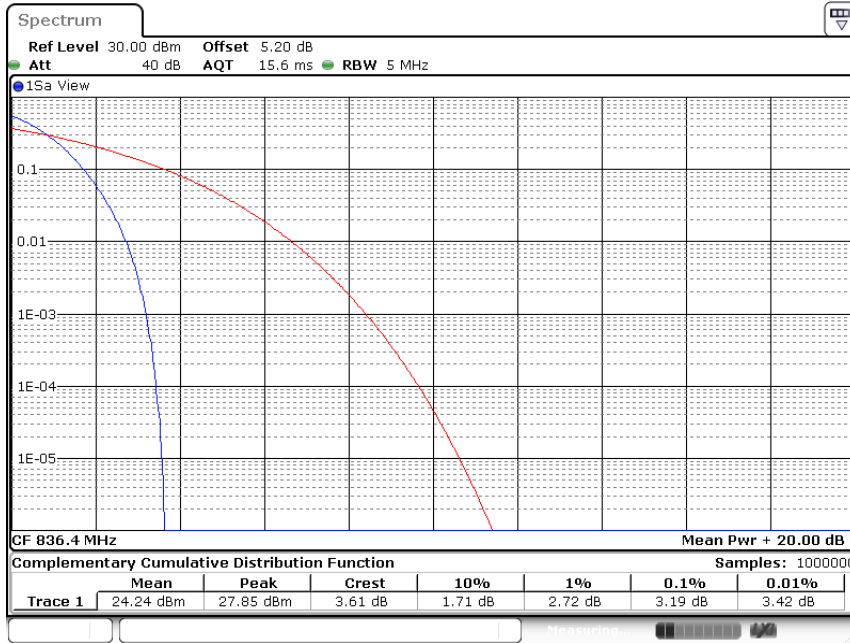
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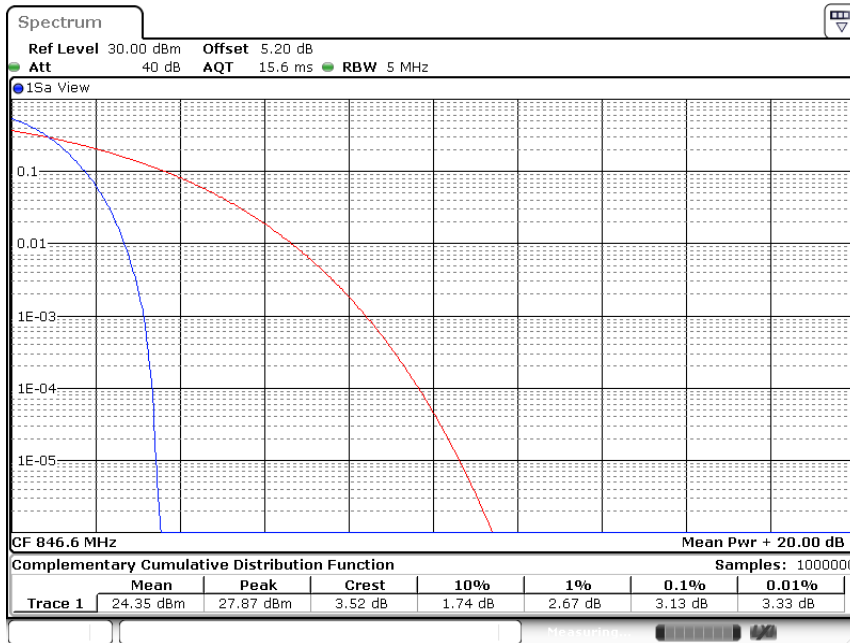
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**Band5-4182**



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**Band5-4233**



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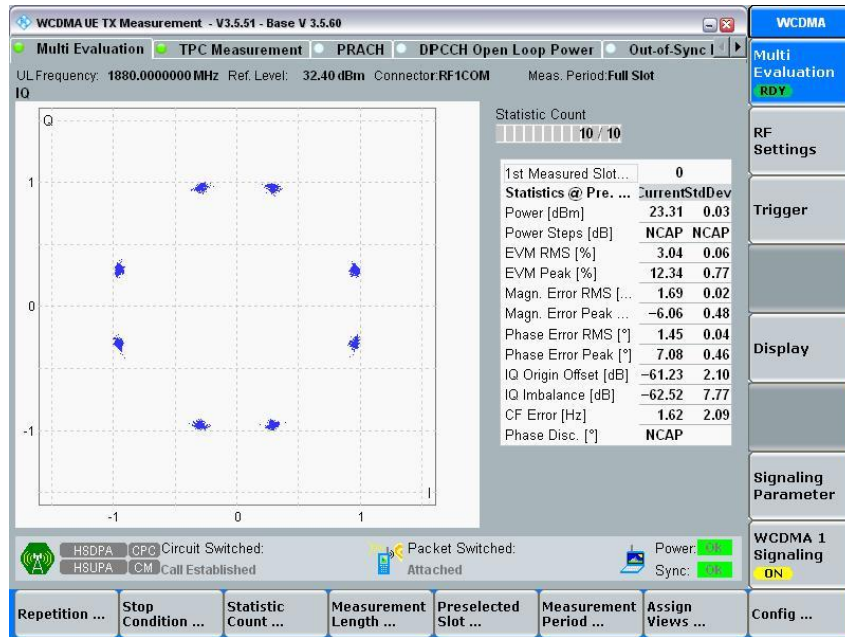
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### 3. Modulation Characteristics

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

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

##### 3.1.1.1. Test Channel = MCH



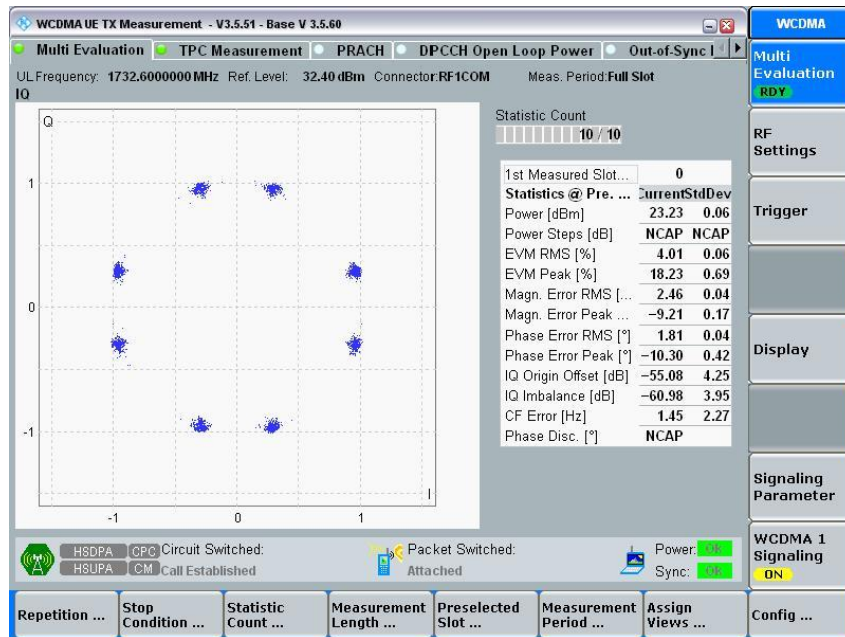
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### 3.2. Test Band = WCDMA Band IV

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

##### 3.2.1.1. Test Channel = MCH



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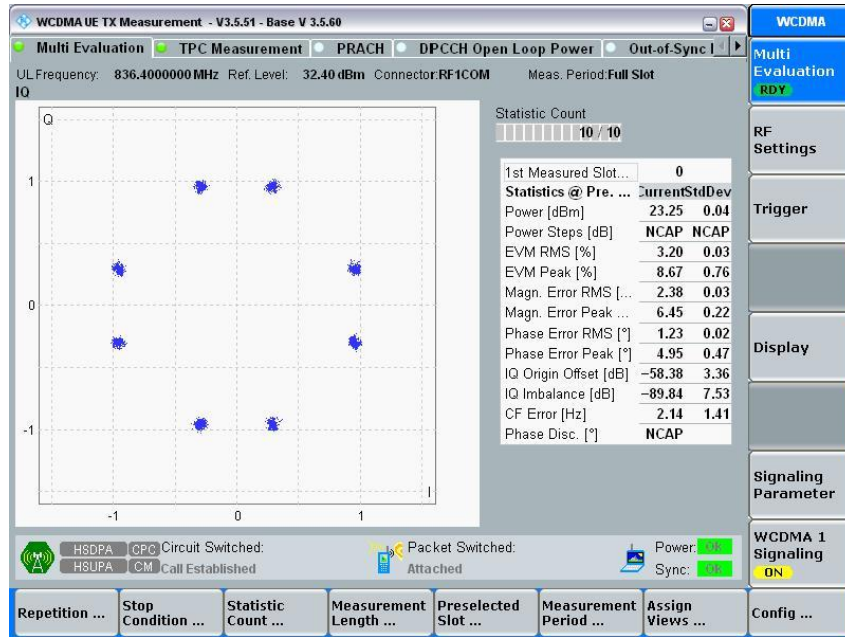
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### 3.3. Test Band = WCDMA Band V

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

##### 3.3.1.1. Test Channel = MCH



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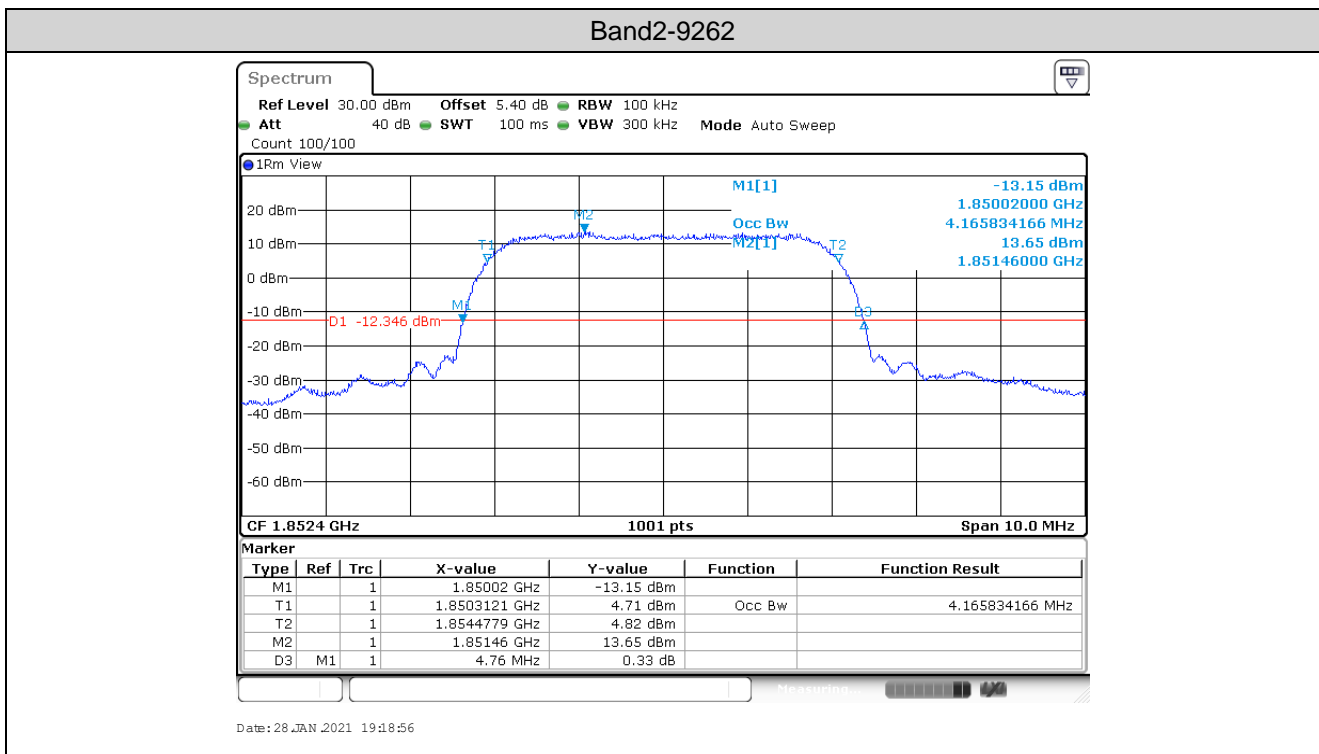
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

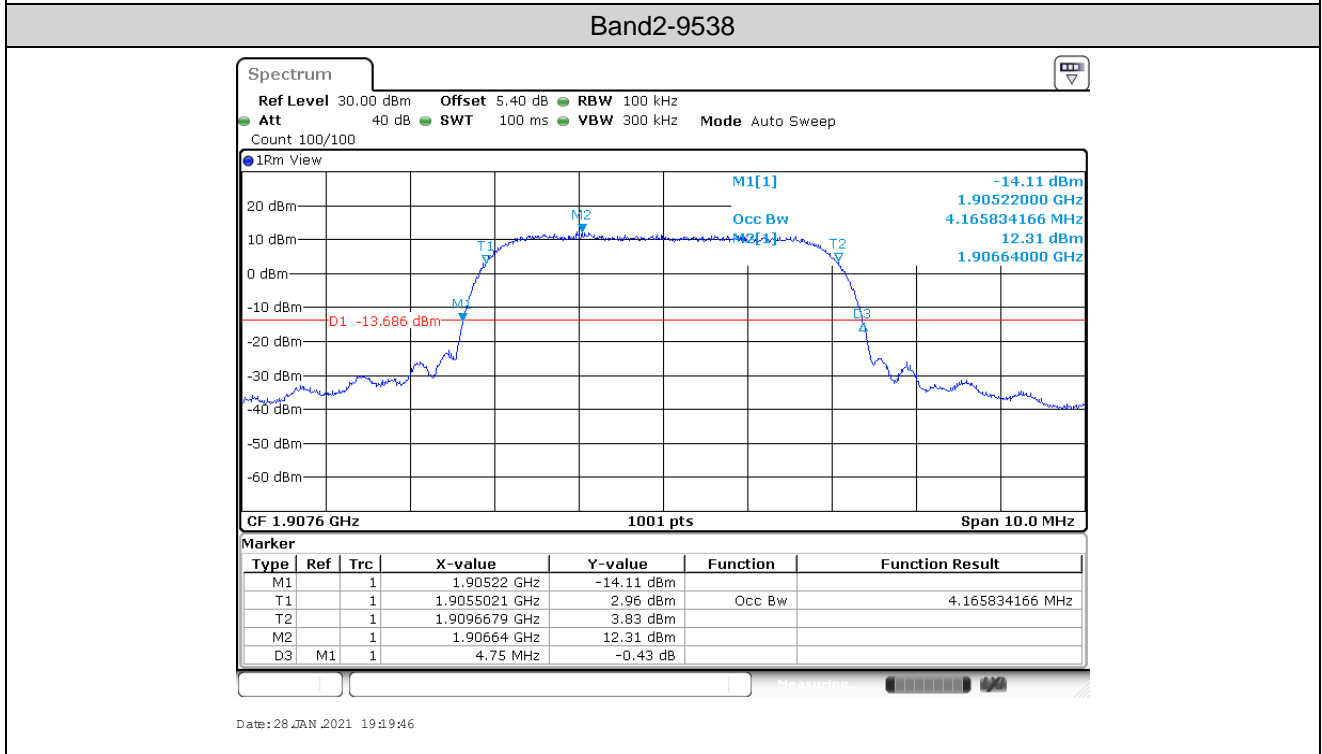
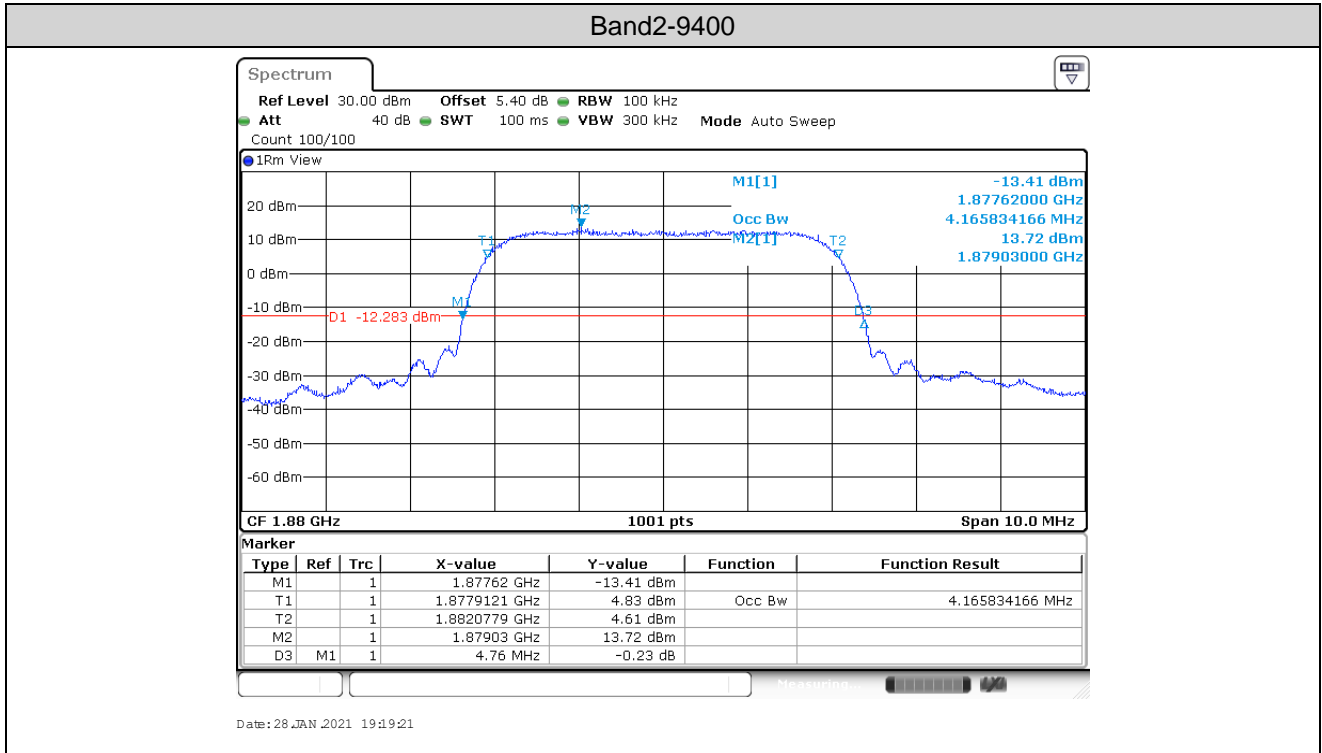
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.166	4.760	---	PASS
Band2	9400	4.166	4.760	---	PASS
Band2	9538	4.166	4.750	---	PASS
Band4	1312	4.146	4.750	---	PASS
Band4	1413	4.146	4.760	---	PASS
Band4	1513	4.146	4.740	---	PASS
Band5	4132	4.146	4.730	---	PASS
Band5	4182	4.156	4.730	---	PASS
Band5	4233	4.146	4.730	---	PASS

### 4.2. Test Plots



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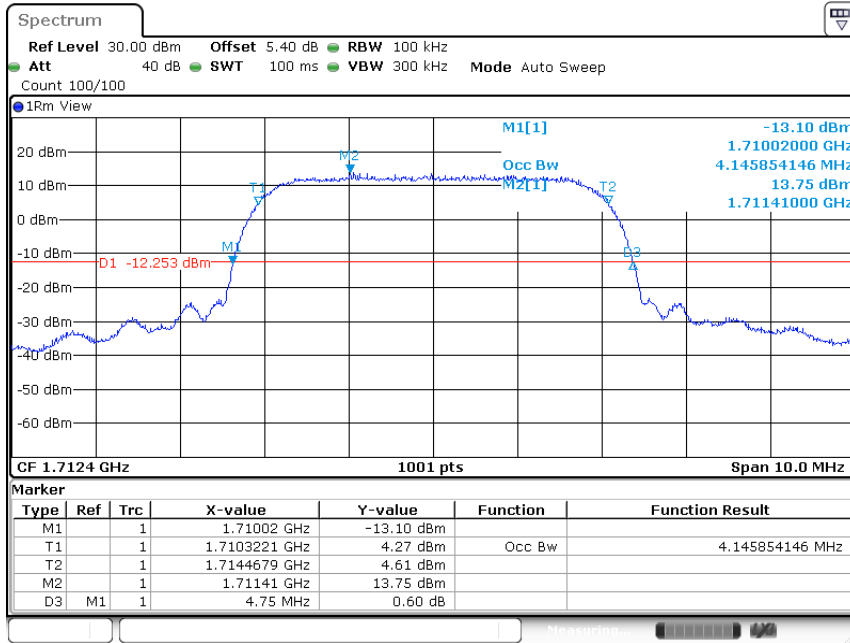


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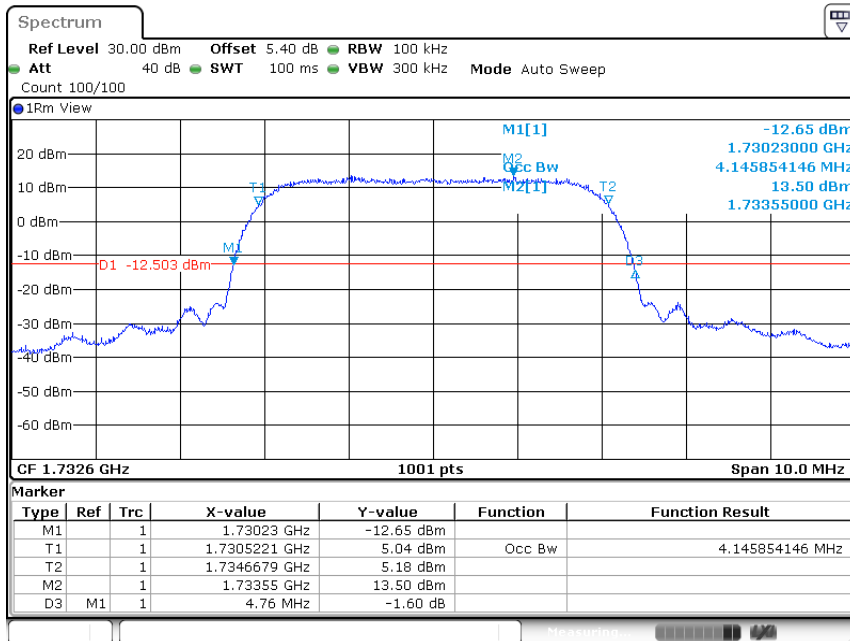
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**Band4-1312**



Date: 28 JAN 2021 19:52:33

**Band4-1413**



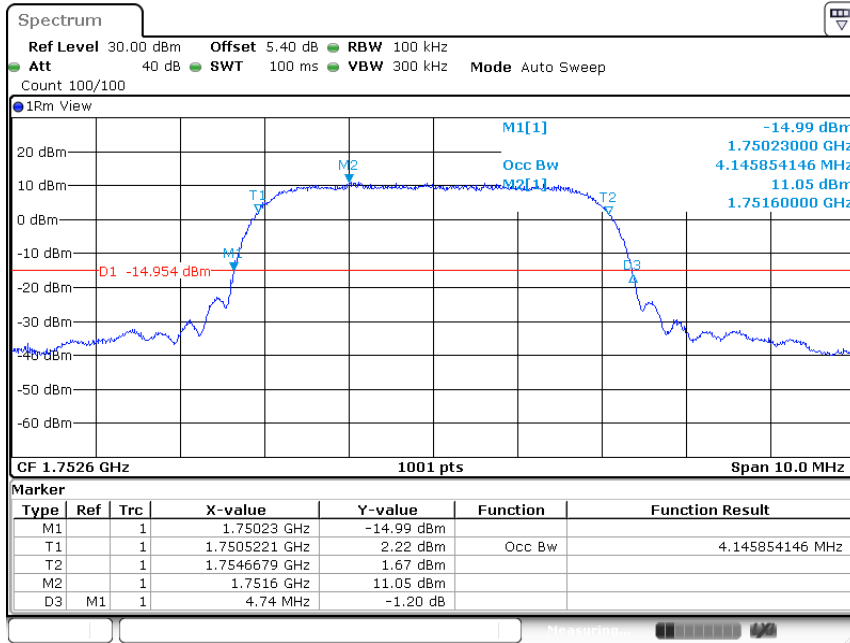
Date: 28 JAN 2021 19:54:01



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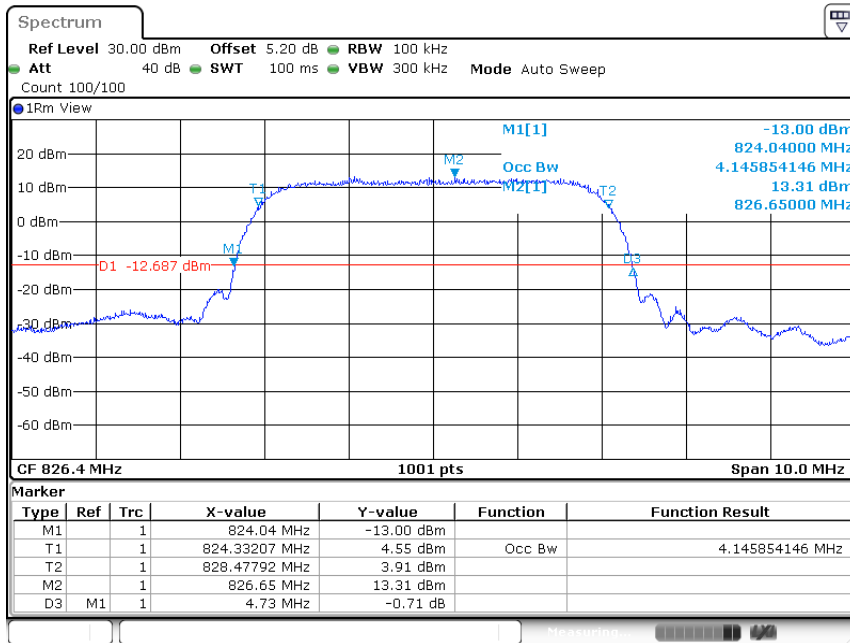


**Band4-1513**



Date: 28 JAN 2021 19:54:26

**Band5-4132**

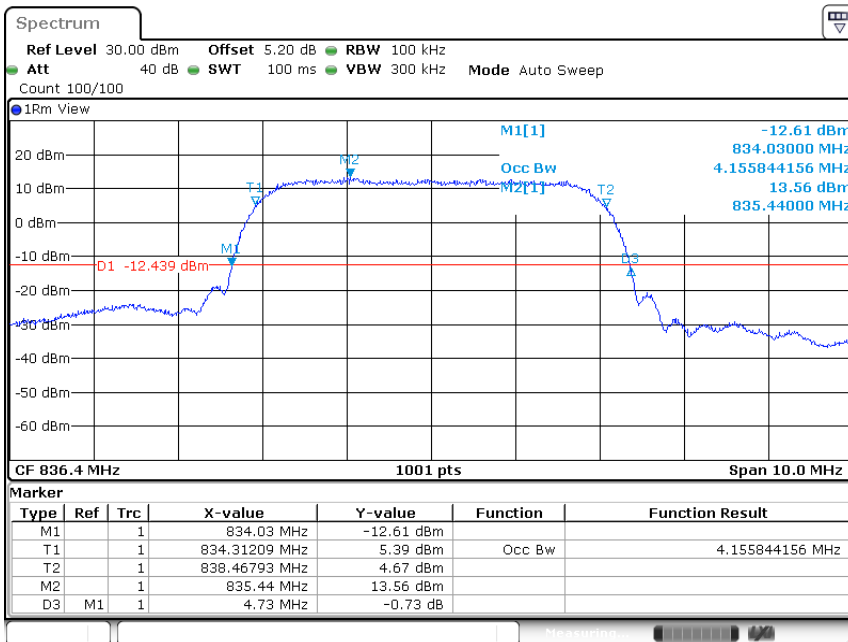


Date: 28 JAN 2021 20:20:02



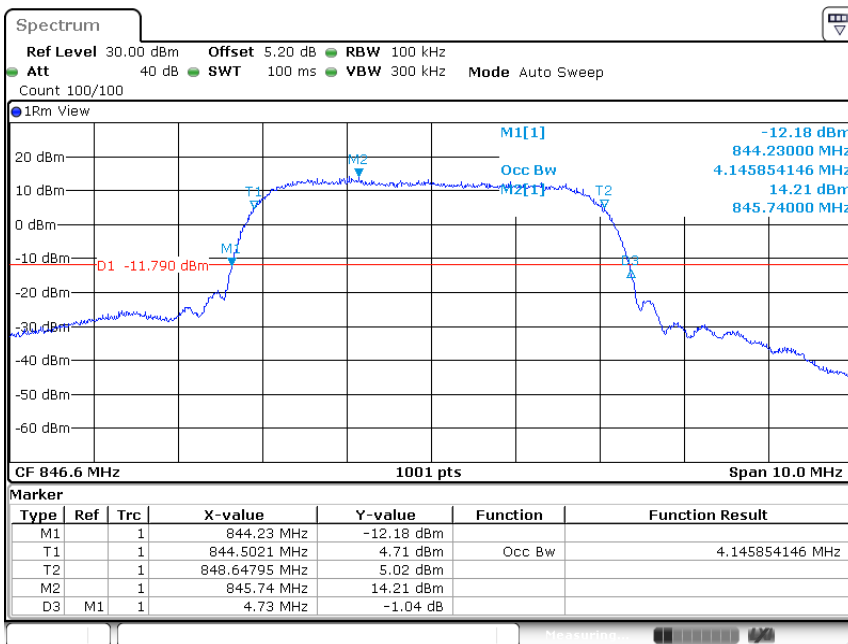
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**Band5-4182**



Date: 28 JAN 2021 20:20:28

**Band5-4233**



Date: 28 JAN 2021 20:22:21



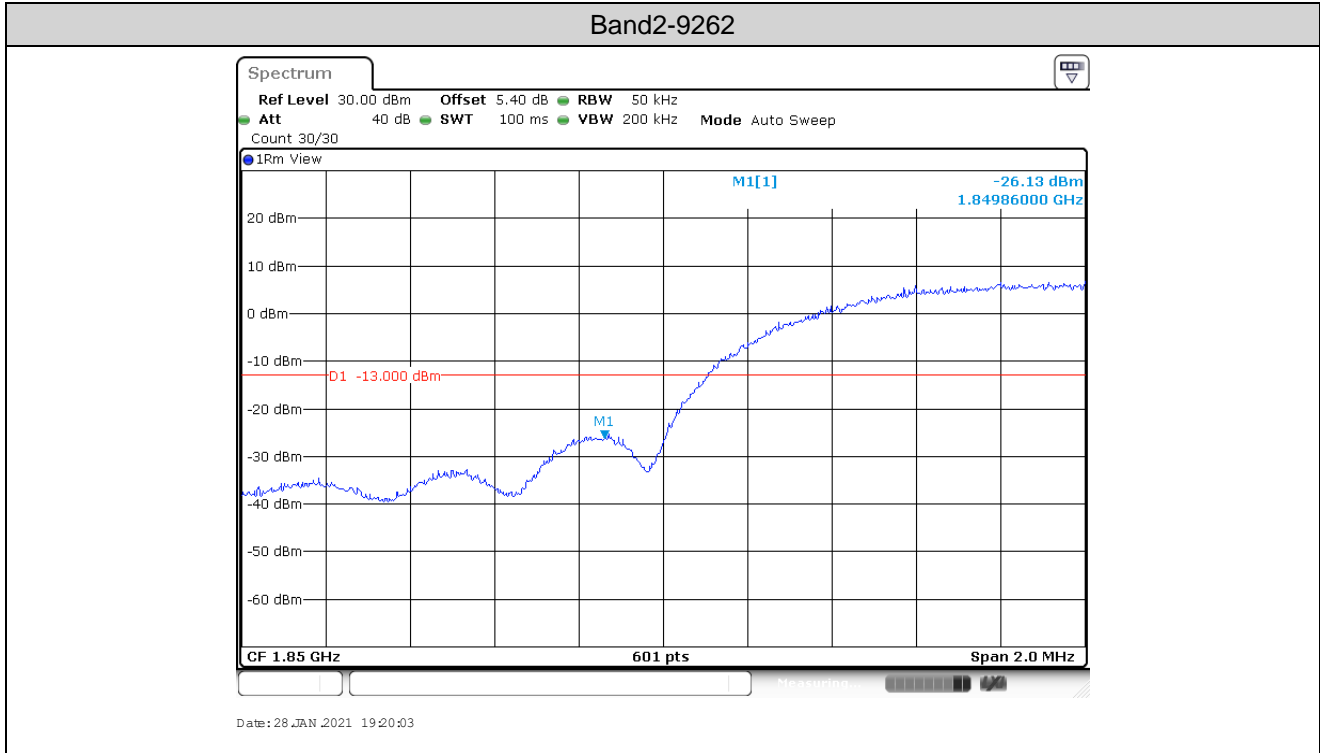
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## 5. Band Edge Compliance

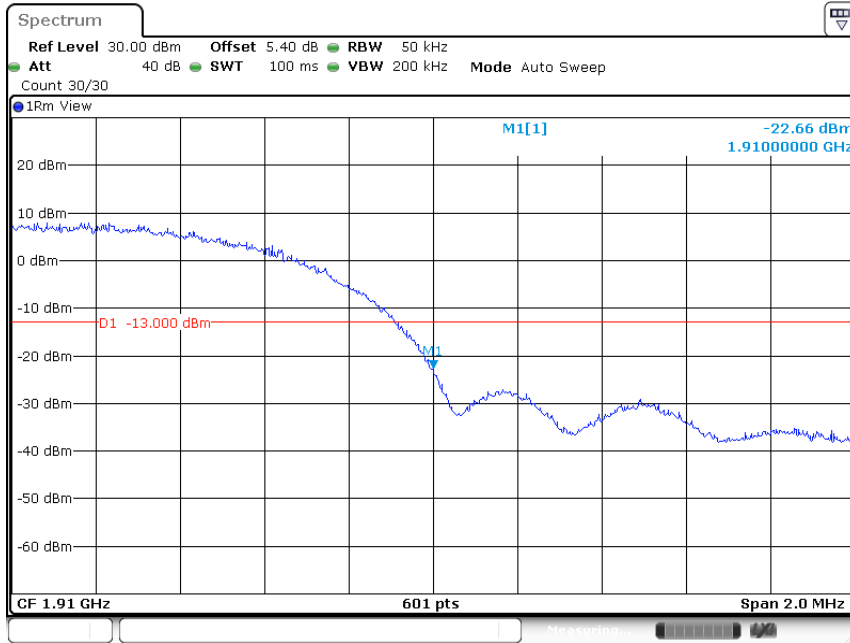
### 5.1. Test Plots



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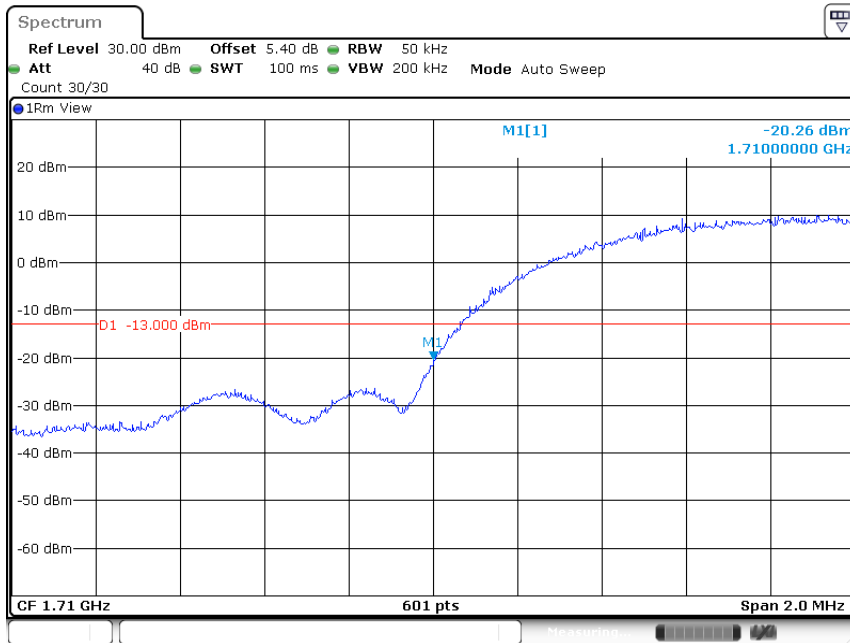
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**Band2-9538**



Date: 28 JAN 2021 19:20:19

**Band4-1312**



Date: 28 JAN 2021 19:54:43

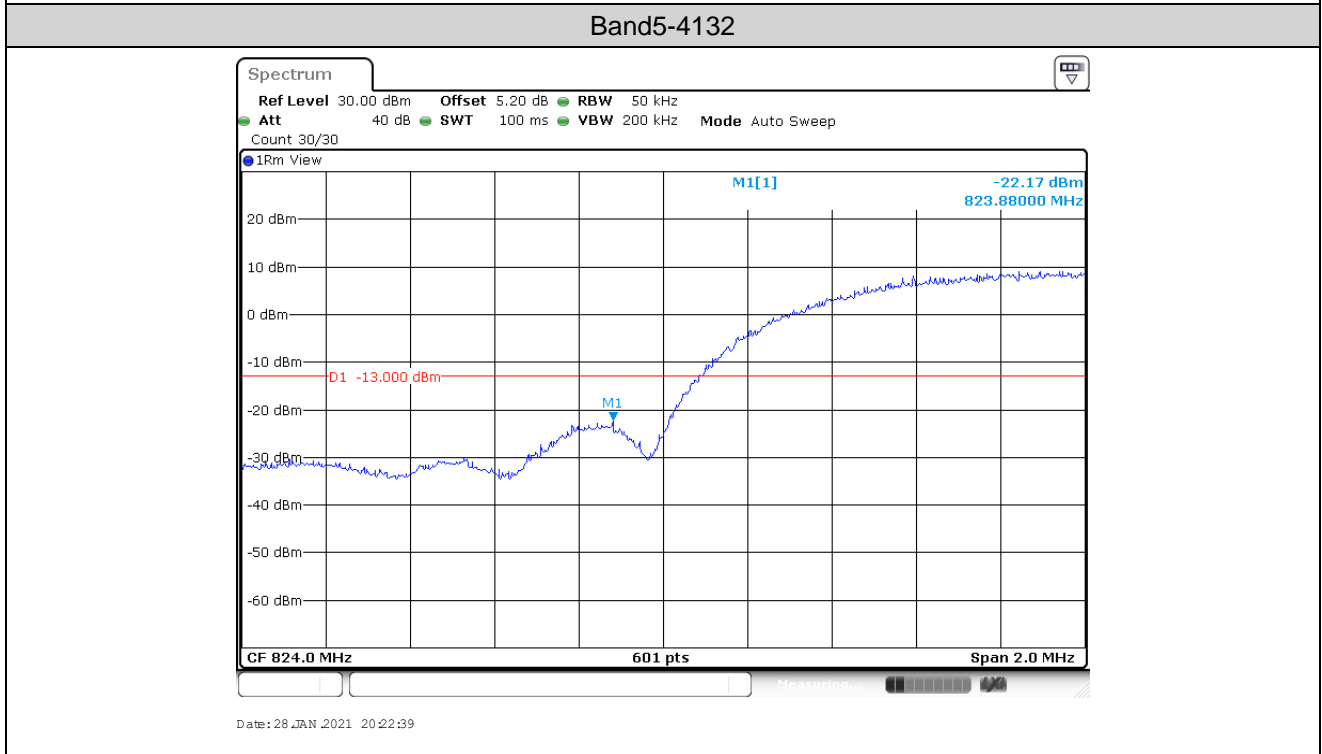
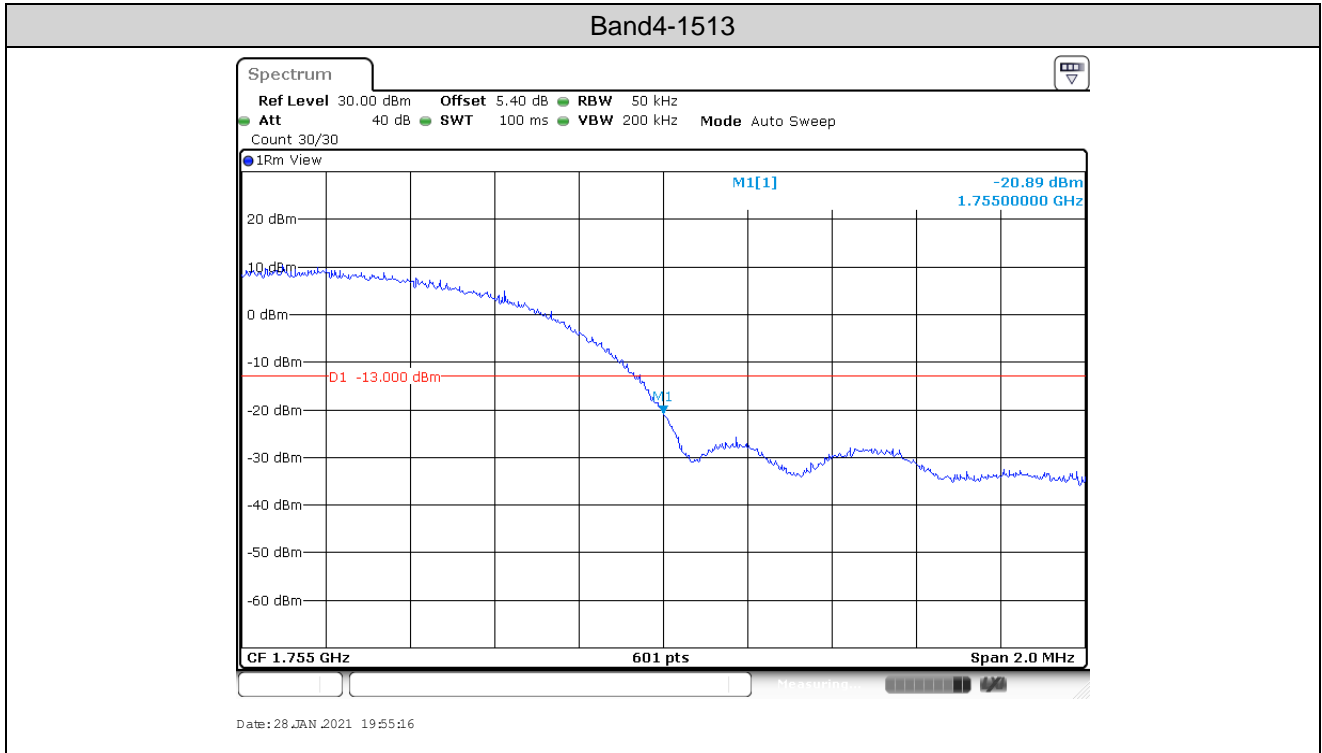


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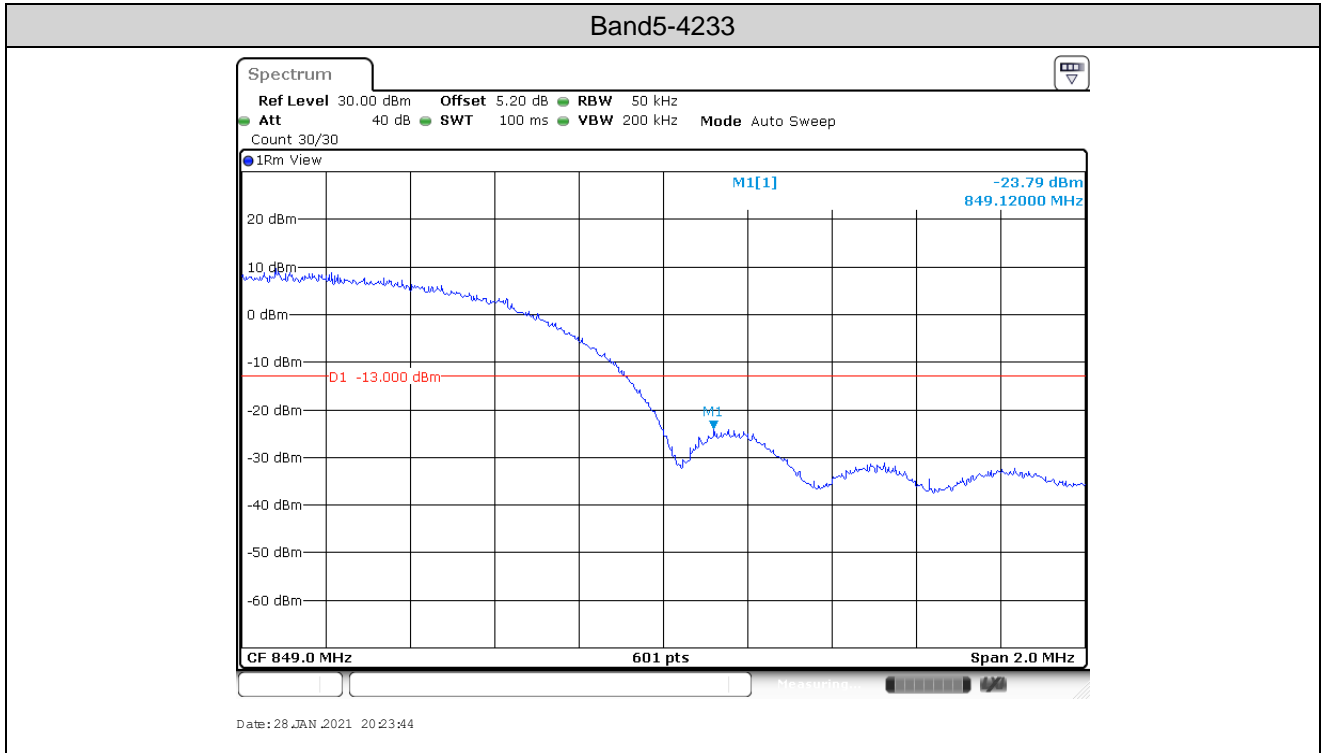




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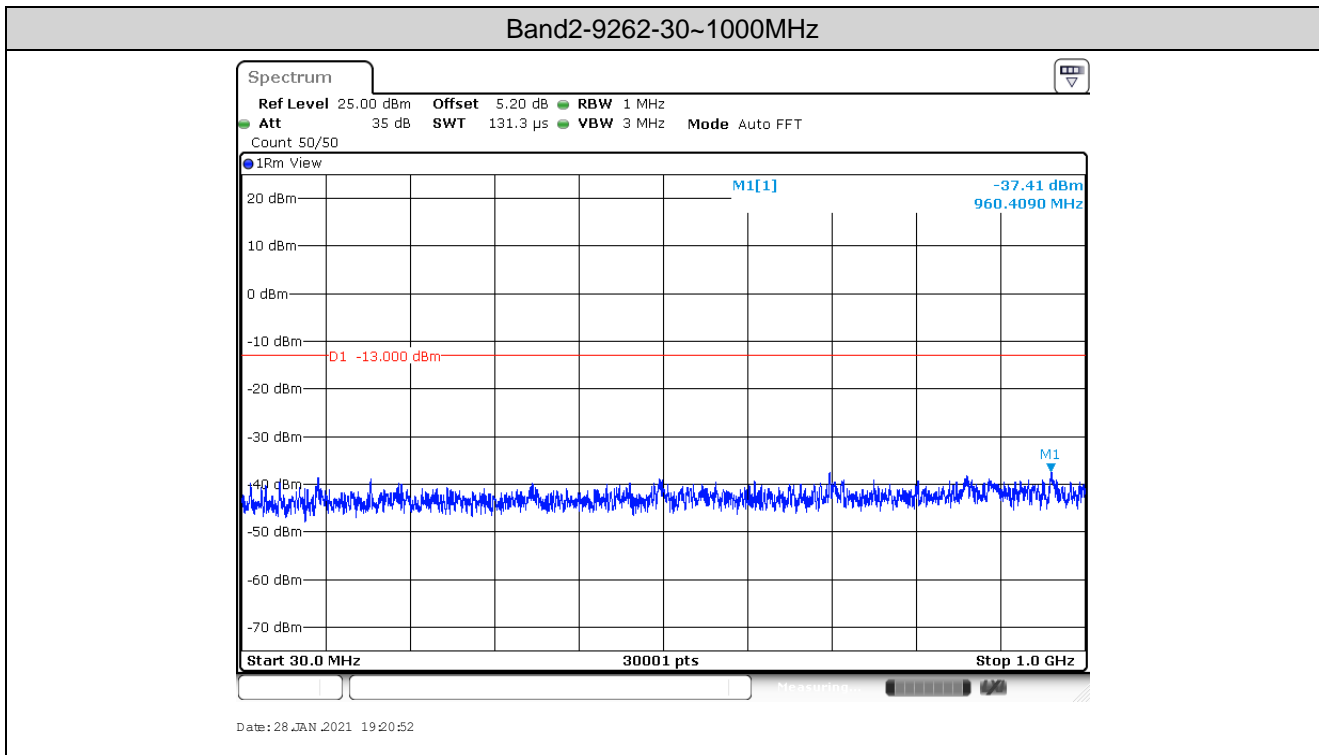
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## 6. Spurious Emission at Antenna Terminal

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.

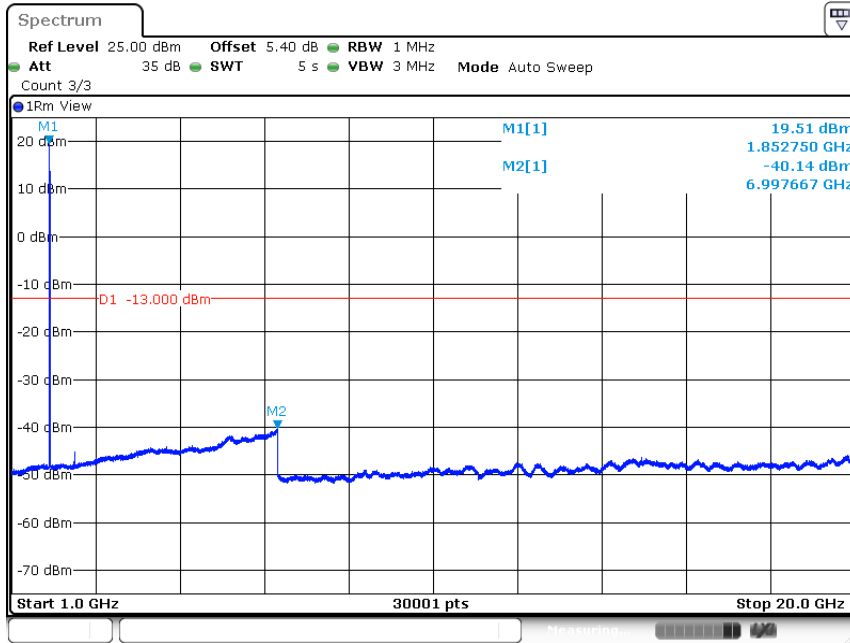
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



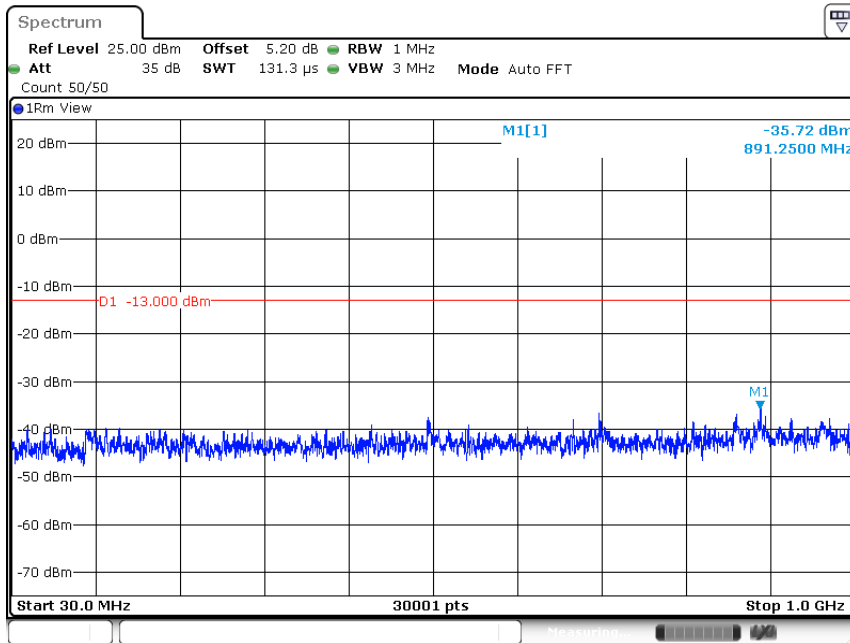
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**Band2-9262-1000~20000MHz**



Date: 28 JAN 2021 19:21:18

**Band2-9400-30~1000MHz**

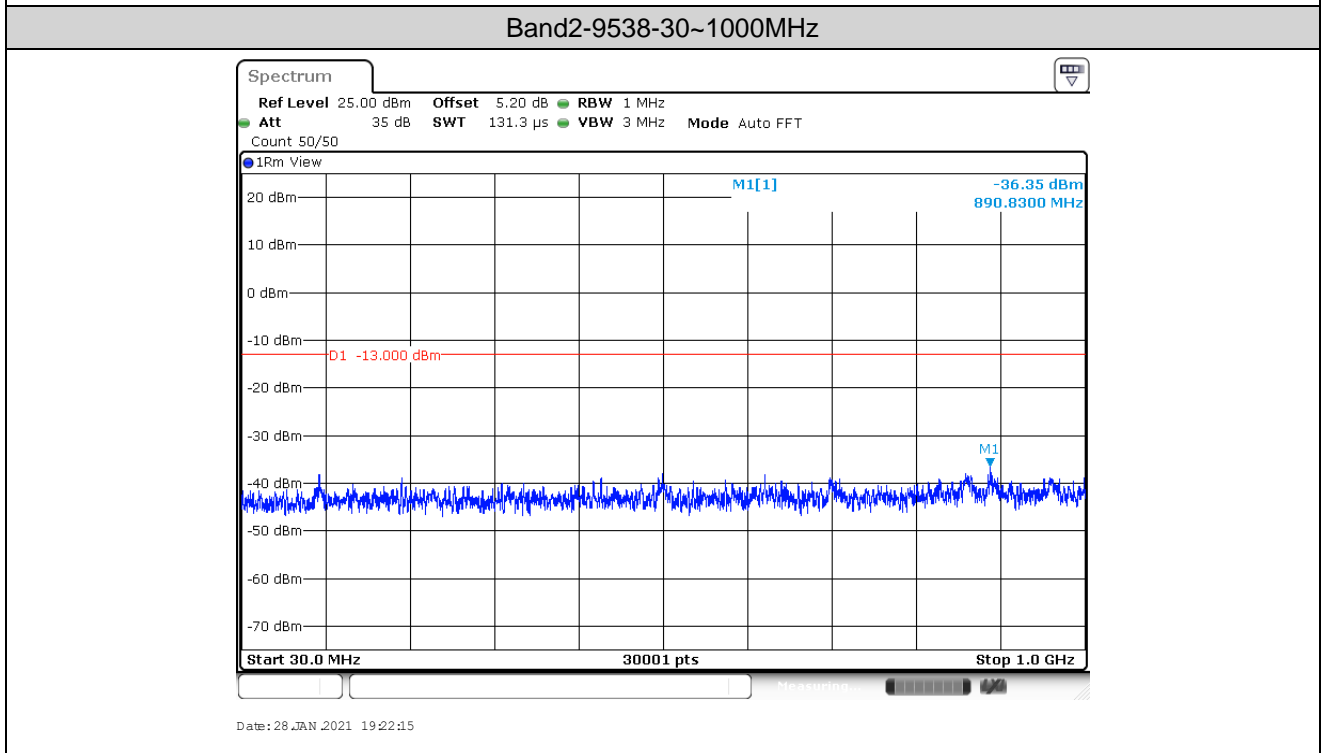
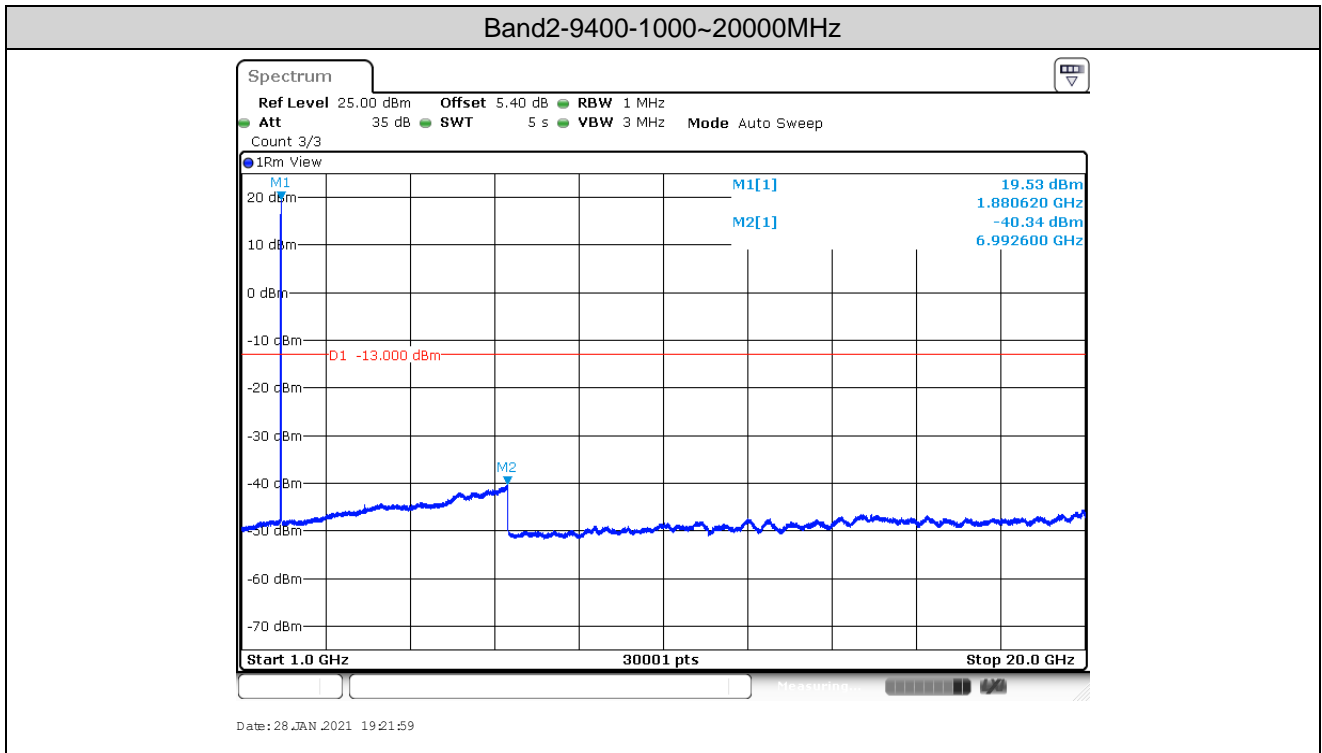


Date: 28 JAN 2021 19:21:33



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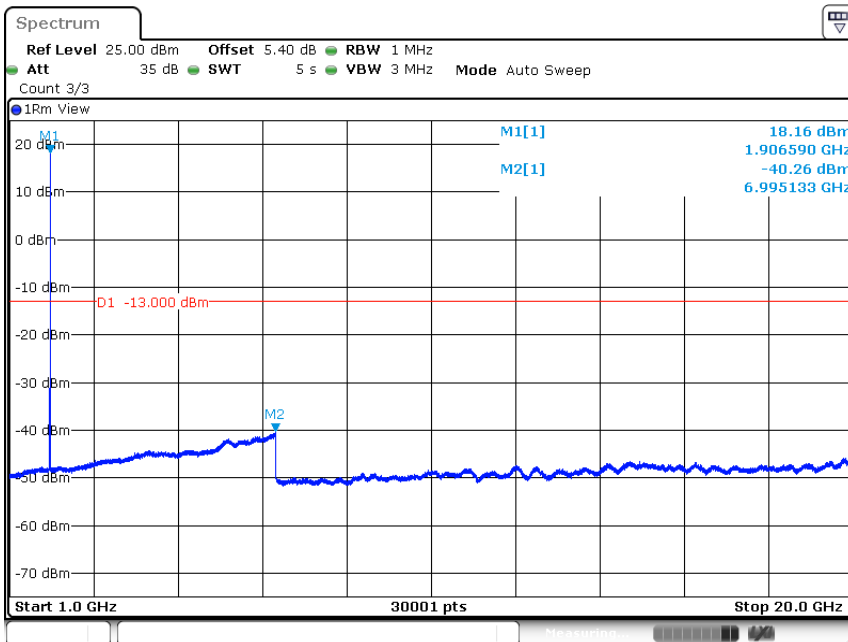




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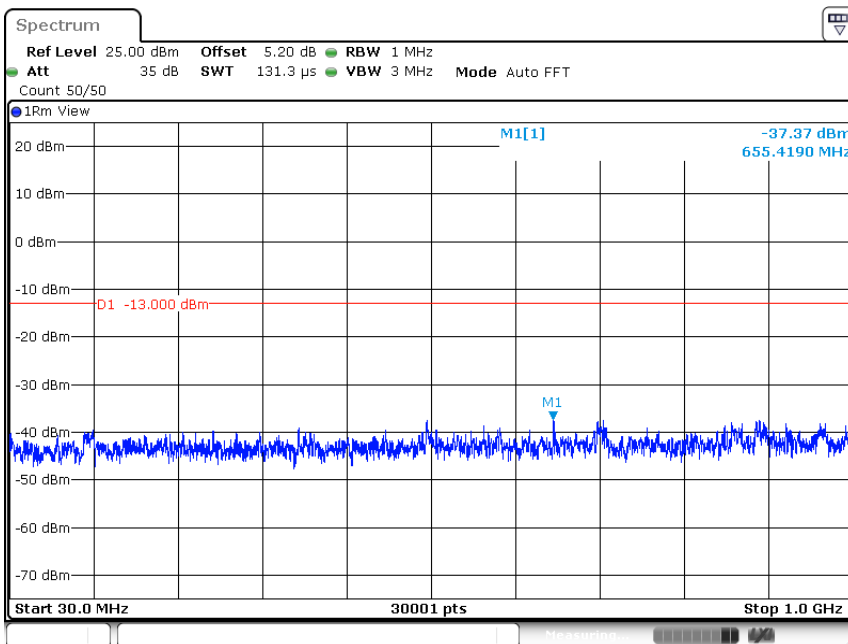
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**Band2-9538-1000~20000MHz**



Date: 28 JAN 2021 19:22:41

**Band4-1312-30~1000MHz**

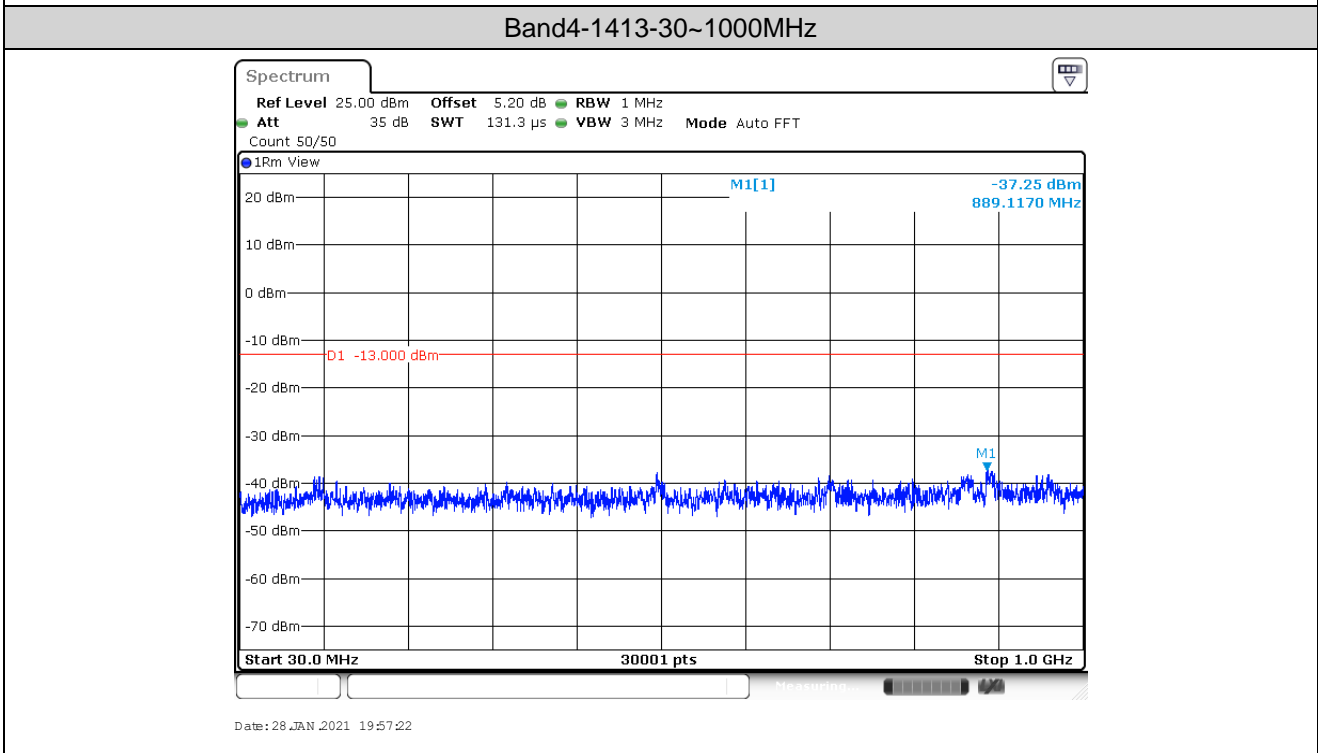
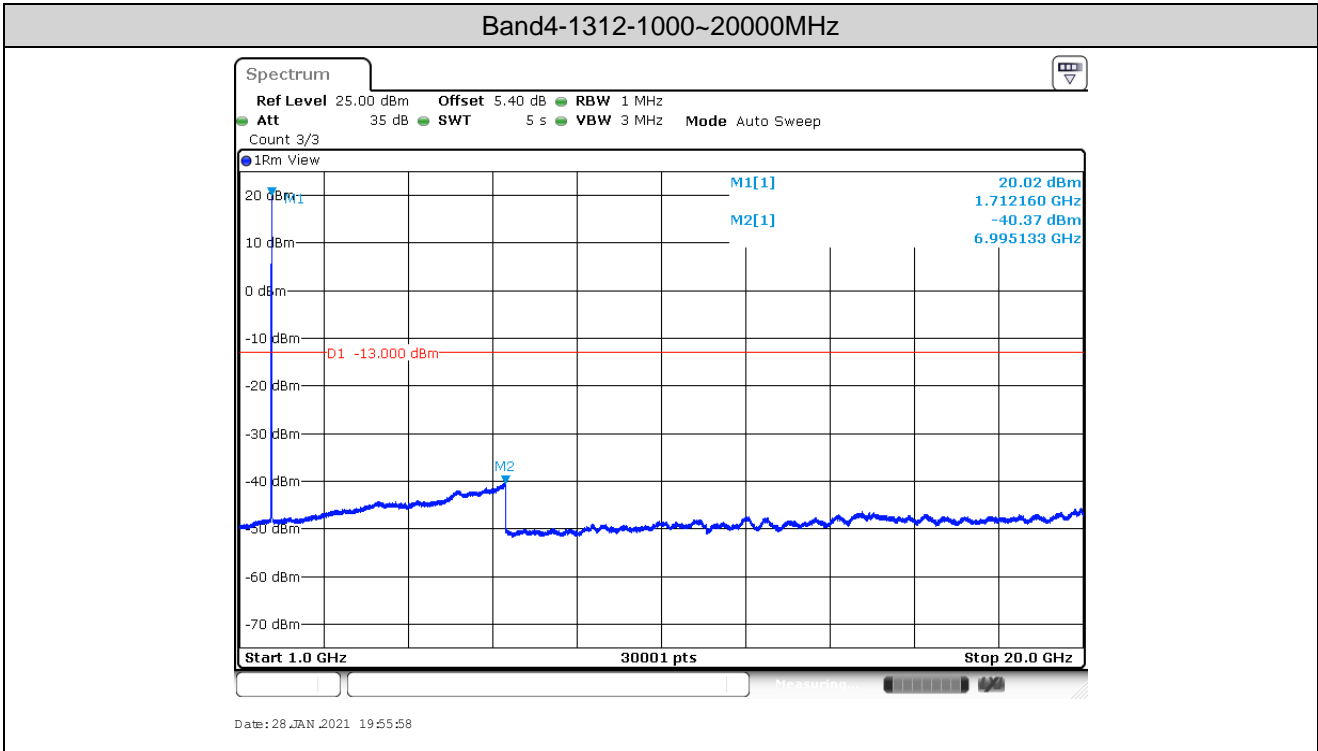


Date: 28 JAN 2021 19:55:32



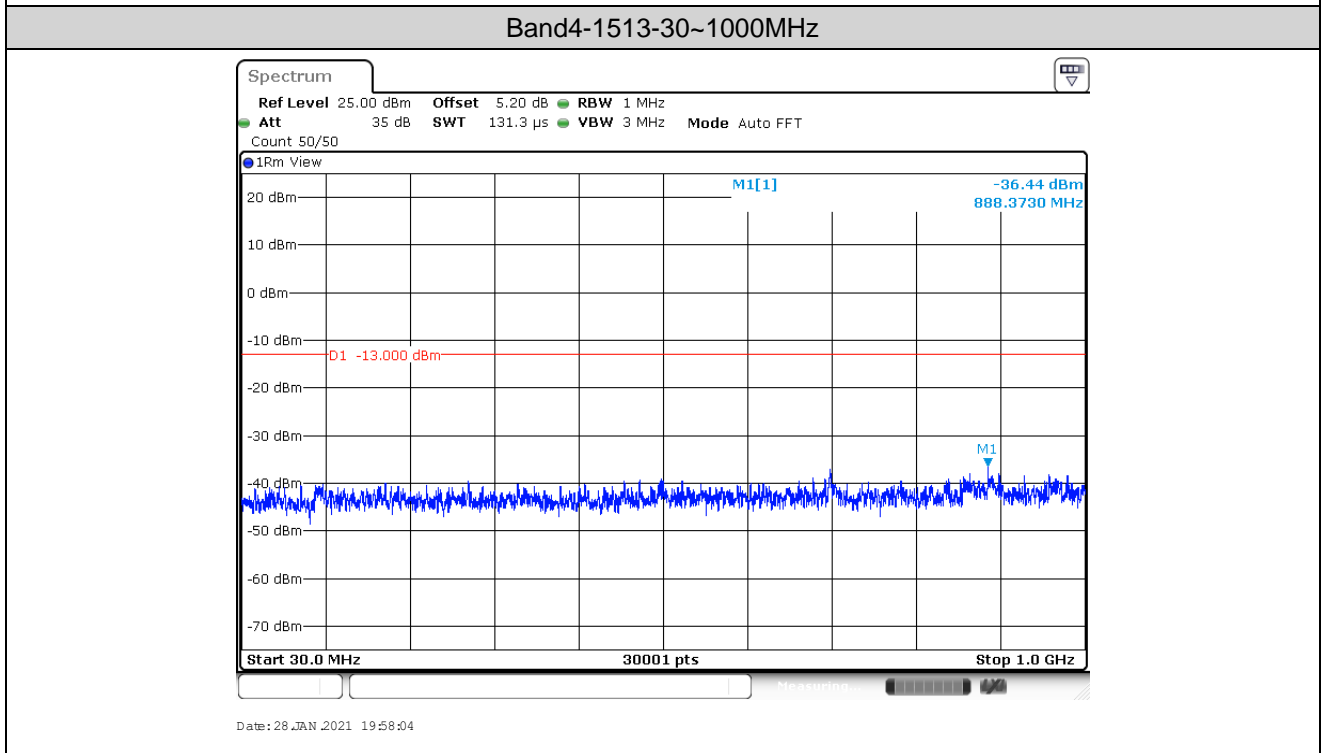
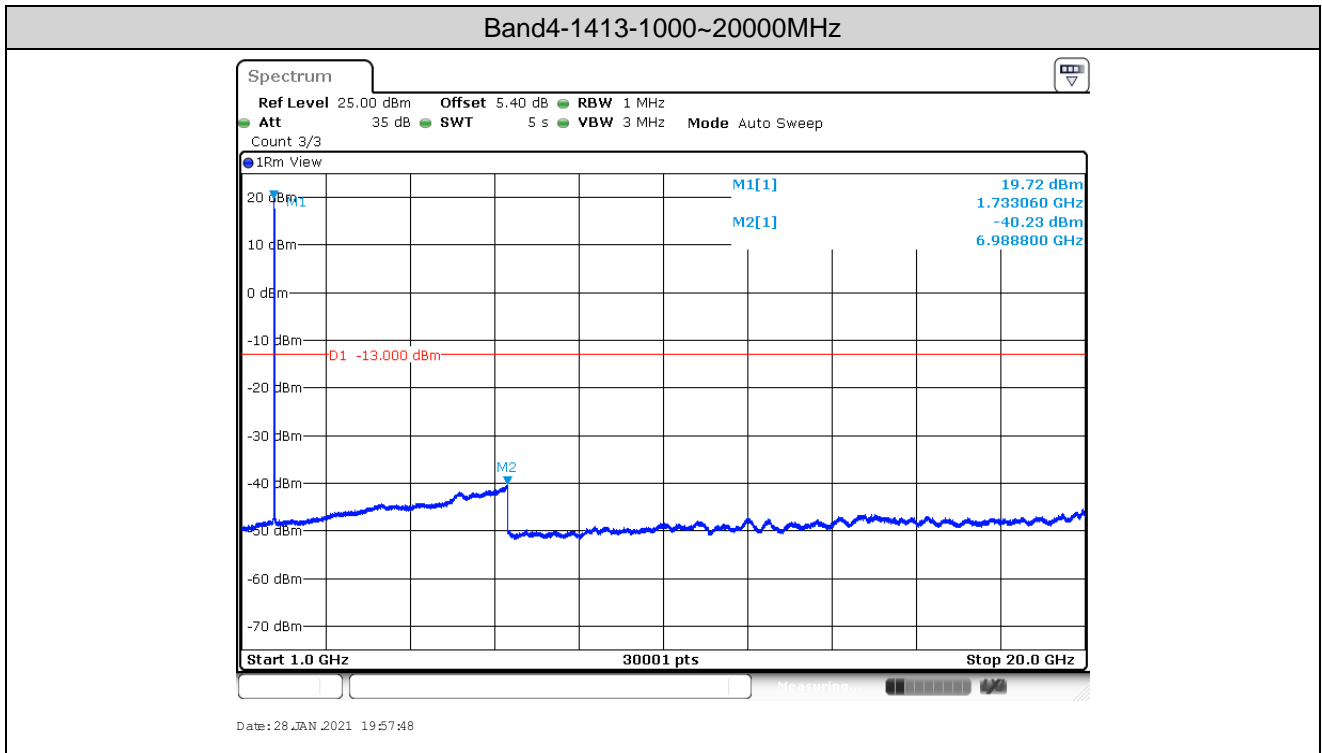
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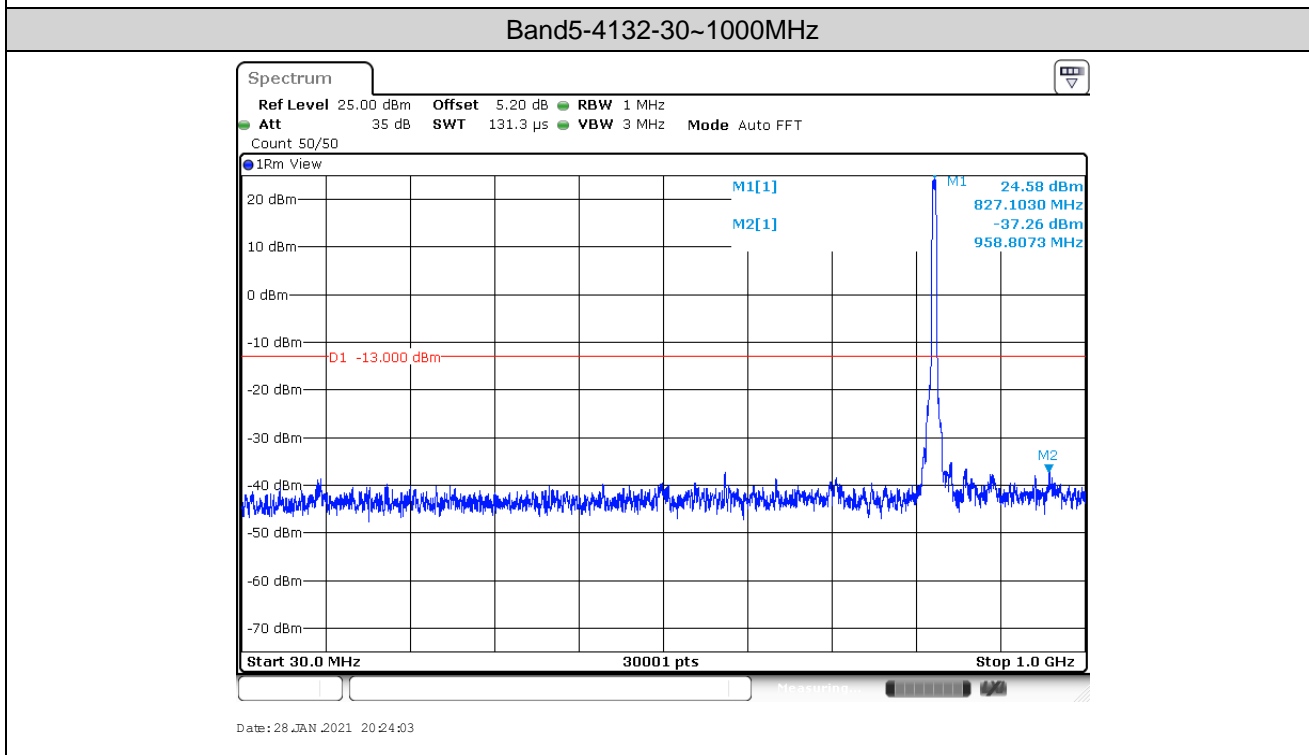
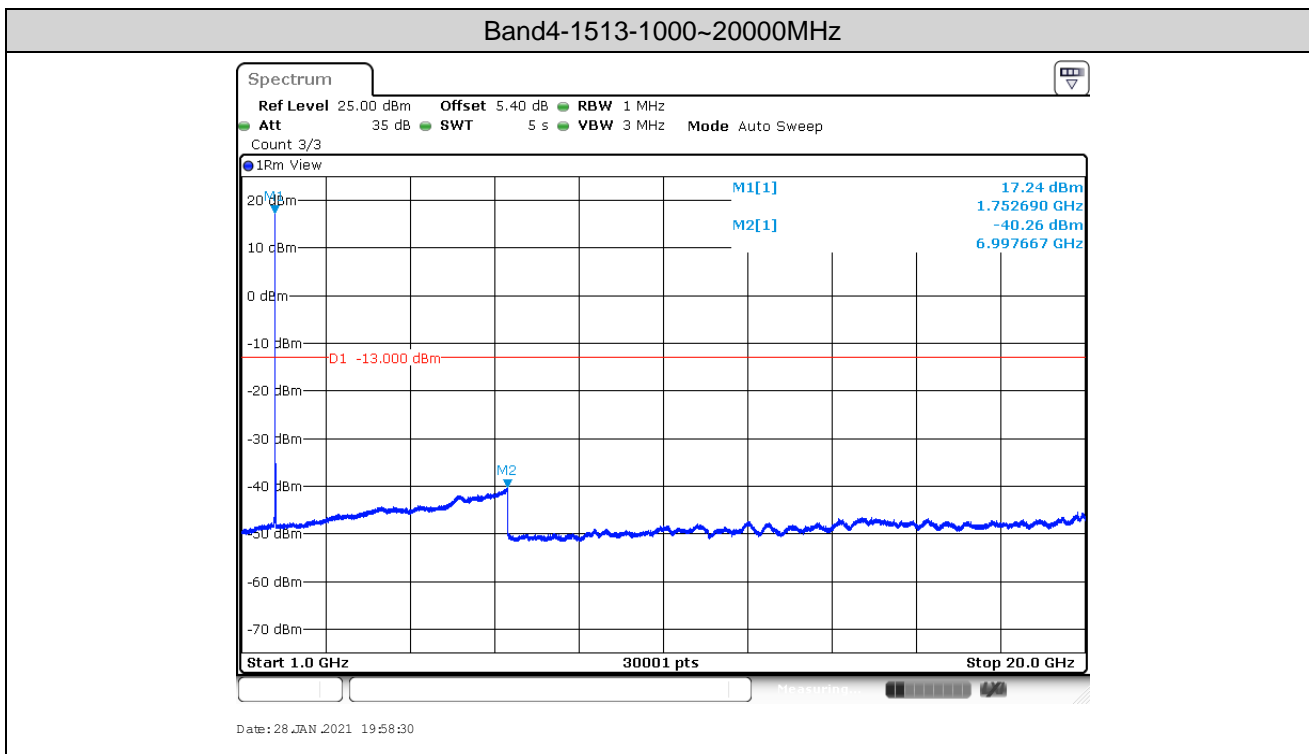
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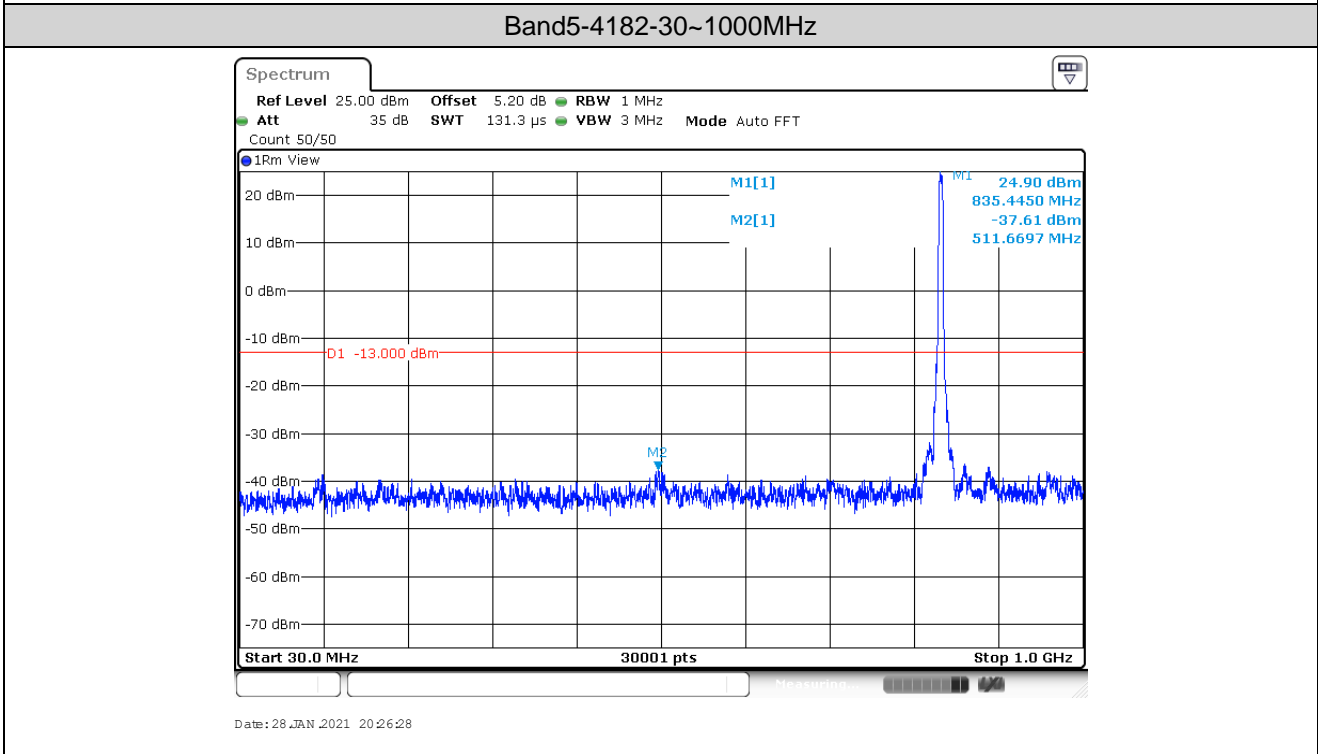
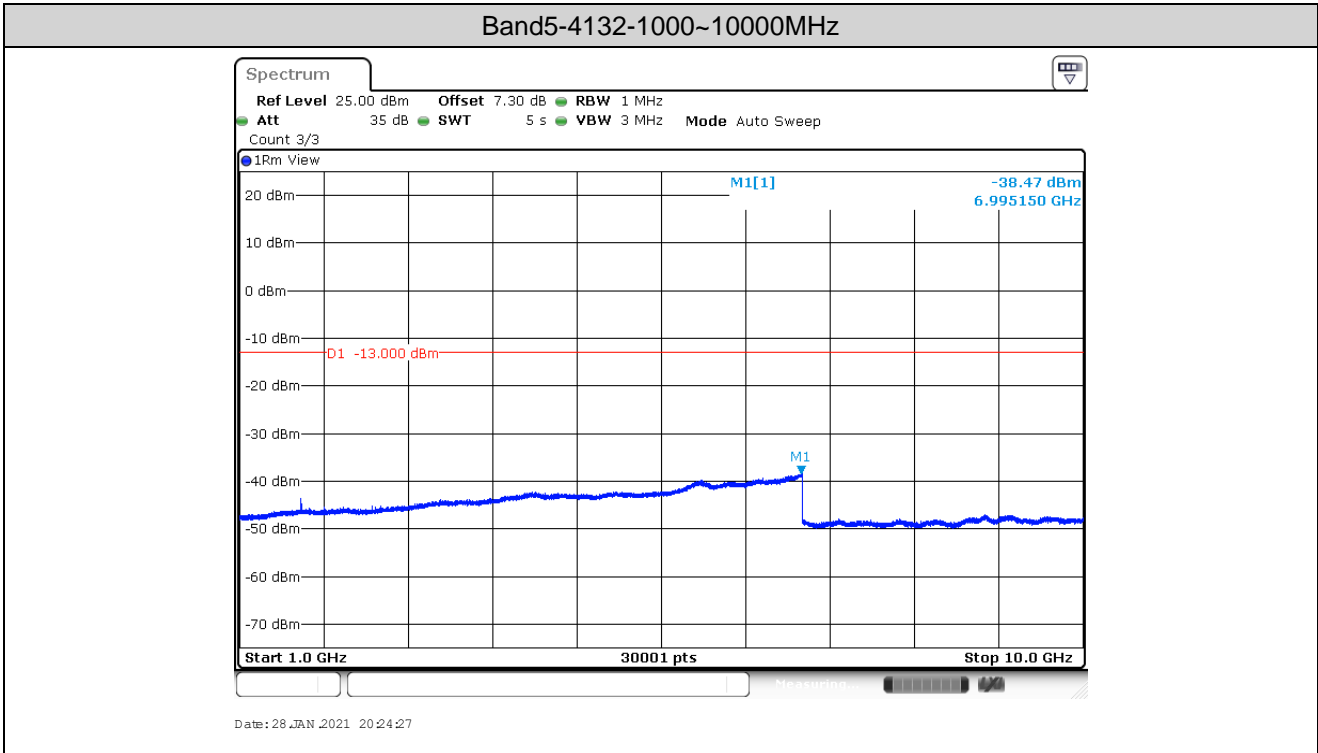
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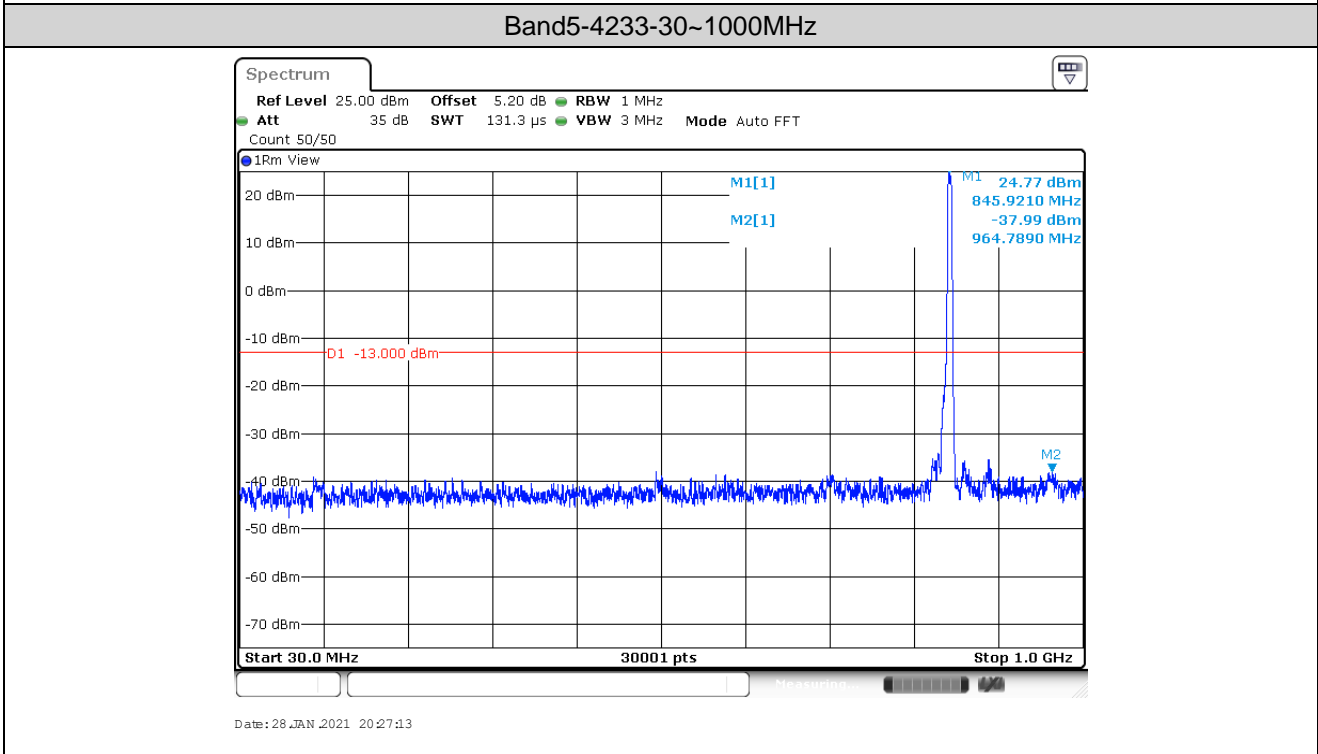
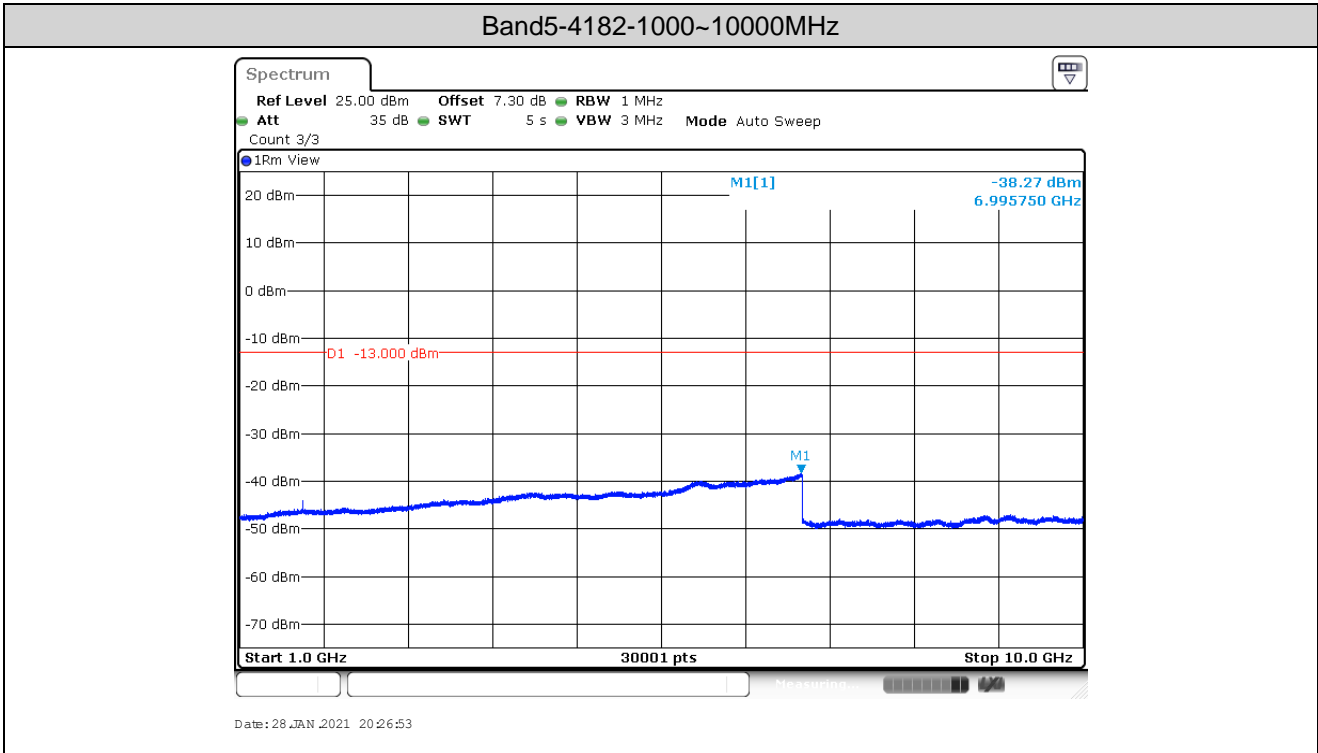
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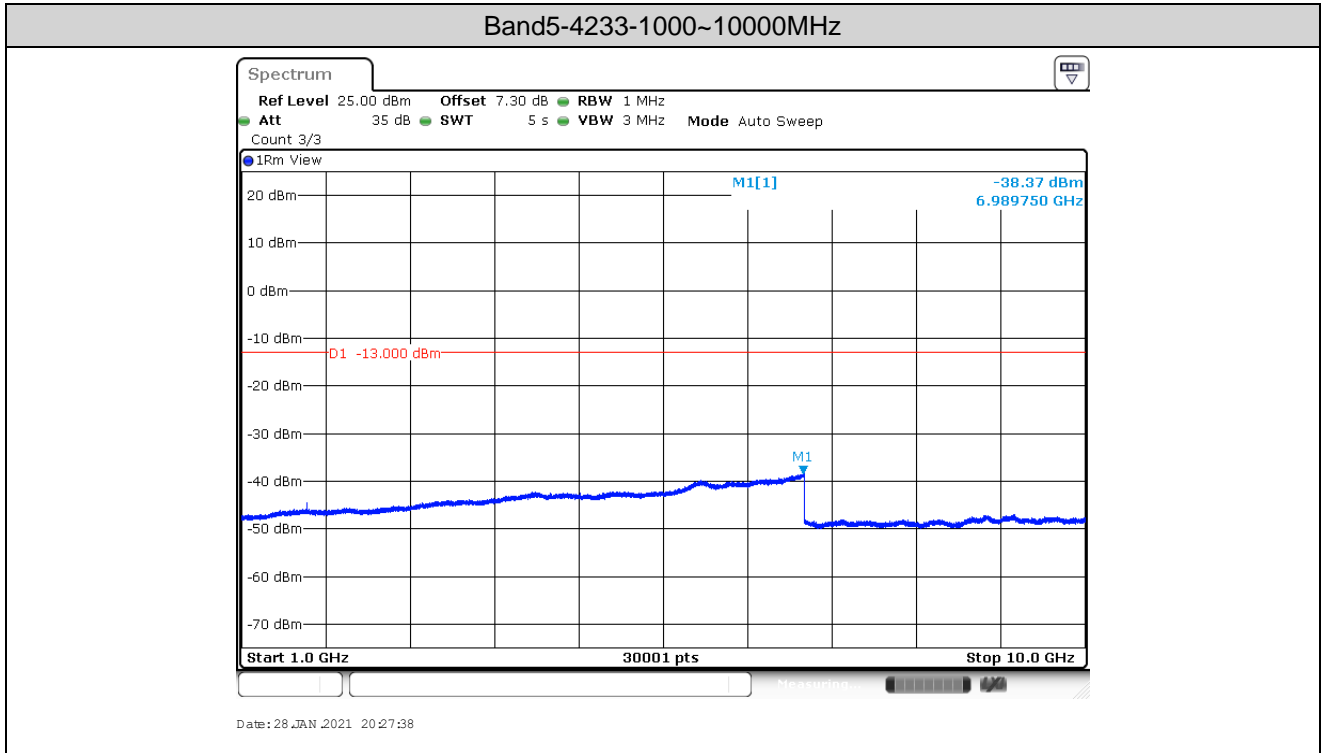
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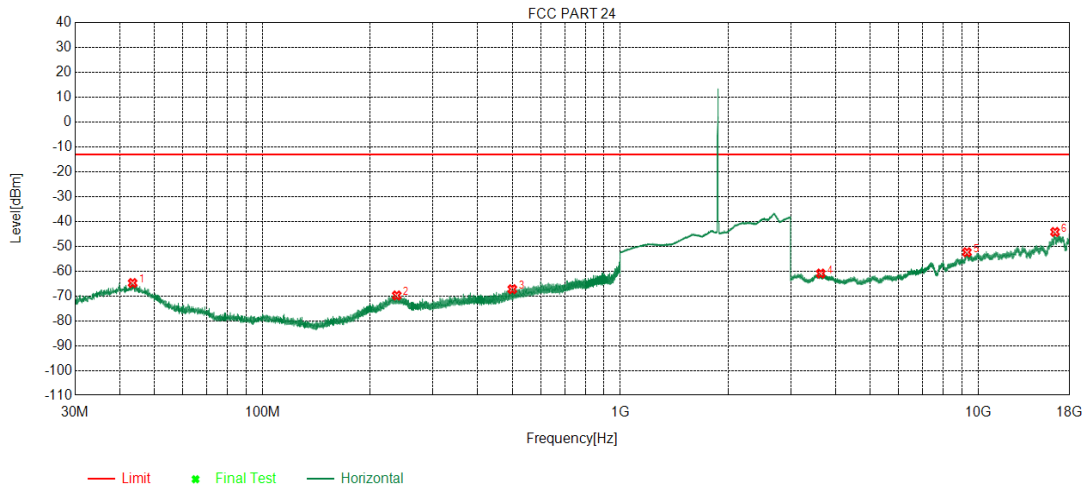


## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA\_II\_TM1 DOWN ANT

#### 7.1.1. Test Channel = Mid Channel

#### Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.4352	-71.72	-64.78	-13.00	51.78	Horizontal
2	237.5904	-72.59	-69.79	-13.00	56.79	Horizontal
3	499.6490	-72.51	-67.27	-13.00	54.27	Horizontal
4	3635.0212	-52.70	-60.95	-13.00	47.95	Horizontal
5	9306.7102	-58.26	-52.38	-13.00	39.38	Horizontal
6	16398.446	-58.62	-44.20	-13.00	31.20	Horizontal

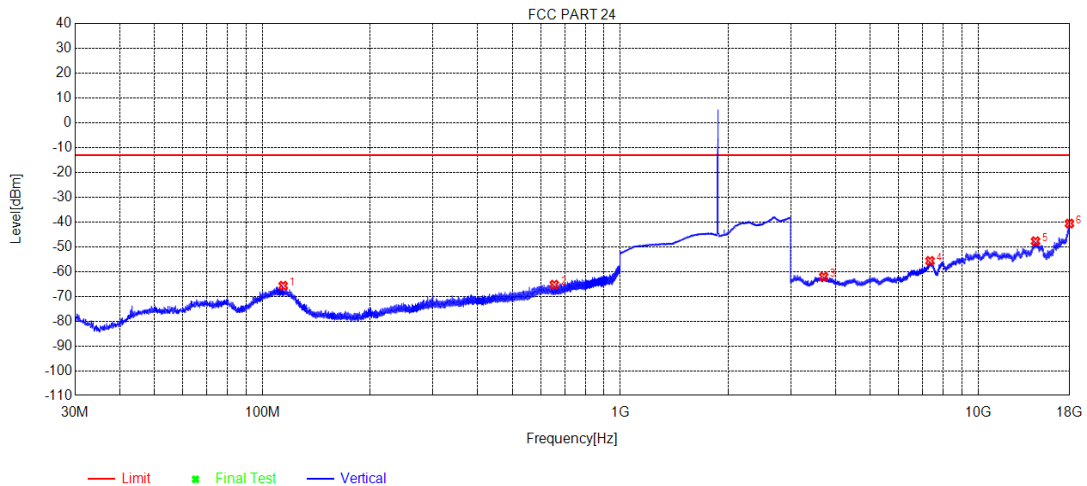


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**7.2. Test Band = WCDMA\_II\_TM1 DOWN ANT**

**7.2.1. Test Channel = Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	114.3942	-71.72	-65.70	-13.00	52.70	Vertical
2	654.6142	-72.81	-65.27	-13.00	52.27	Vertical
3	3703.5235	-52.70	-62.05	-13.00	49.05	Vertical
4	7338.1446	-56.17	-55.67	-13.00	42.67	Vertical
5	14467.382	-59.99	-47.74	-13.00	34.74	Vertical
6	17995.999	-58.38	-40.60	-13.00	27.60	Vertical



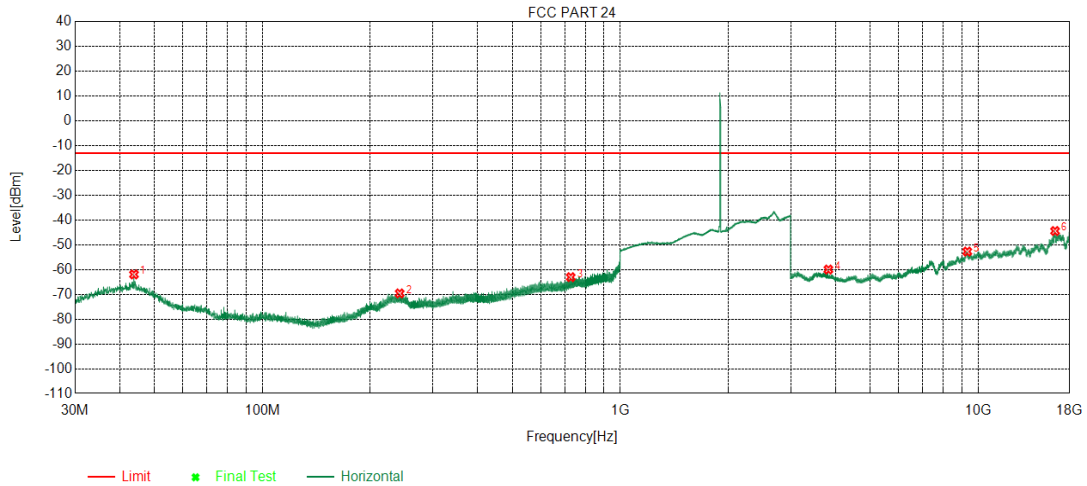
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**7.3. Test Band = WCDMA\_II\_TM1 DOWN ANT**

**7.3.1. Test Channel = High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.8232	-68.90	-61.94	-13.00	48.94	Horizontal
2	242.1011	-72.35	-69.61	-13.00	56.61	Horizontal
3	727.6104	-72.28	-63.05	-13.00	50.05	Horizontal
4	3816.5272	-51.72	-59.96	-13.00	46.96	Horizontal
5	9327.2109	-58.39	-52.71	-13.00	39.71	Horizontal
6	16402.946	-58.79	-44.42	-13.00	31.42	Horizontal



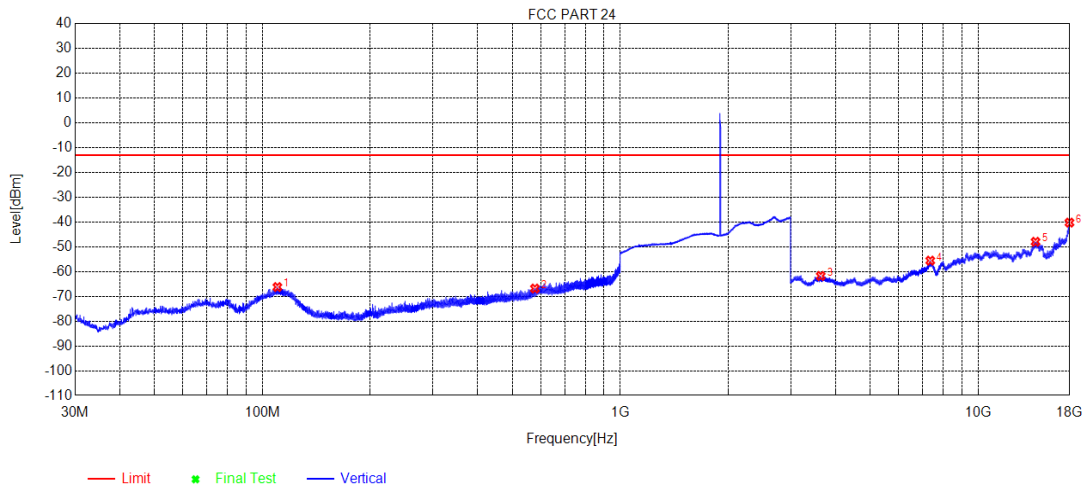
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**7.4. Test Band = WCDMA\_II\_TM1 DOWN ANT**

**7.4.1. Test Channel = High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.2230	-72.62	-66.23	-13.00	53.23	Vertical
2	577.7379	-73.37	-66.83	-13.00	53.83	Vertical
3	3633.5211	-52.58	-61.76	-13.00	48.76	Vertical
4	7350.1450	-56.08	-55.56	-13.00	42.56	Vertical
5	14466.882	-60.19	-47.95	-13.00	34.95	Vertical
6	17997.499	-58.04	-40.22	-13.00	27.22	Vertical



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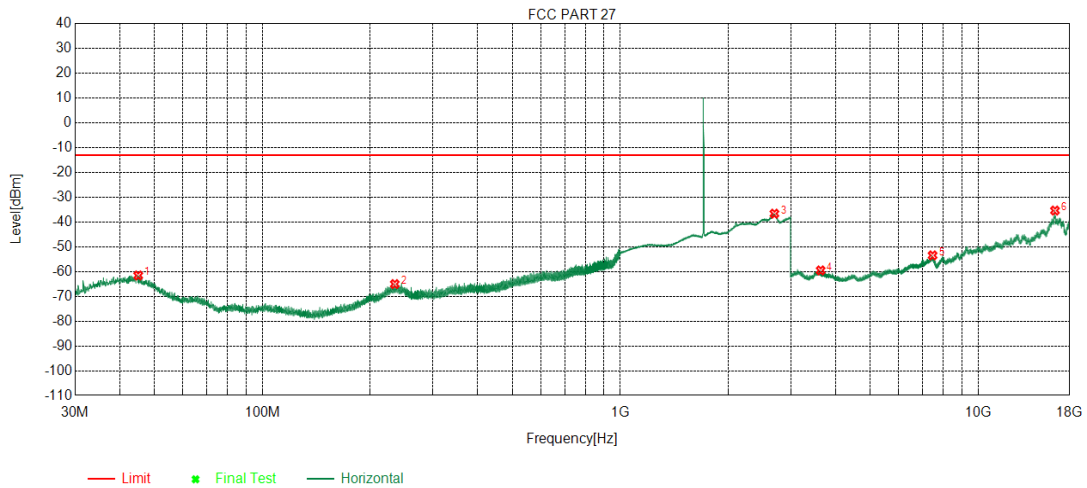
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**7.5. Test Band = WCDMA\_IV\_TM1 DOWN ANT**

**7.5.1. Test Channel = Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.0358	-68.56	-61.56	-13.00	48.56	Horizontal
2	234.6317	-67.83	-65.02	-13.00	52.02	Horizontal
3	2697.5395	-69.46	-36.60	-13.00	23.60	Horizontal
4	3631.0210	-51.28	-59.51	-13.00	46.51	Horizontal
5	7461.1487	-53.42	-53.44	-13.00	40.44	Horizontal
6	16397.946	-49.76	-35.35	-13.00	22.35	Horizontal



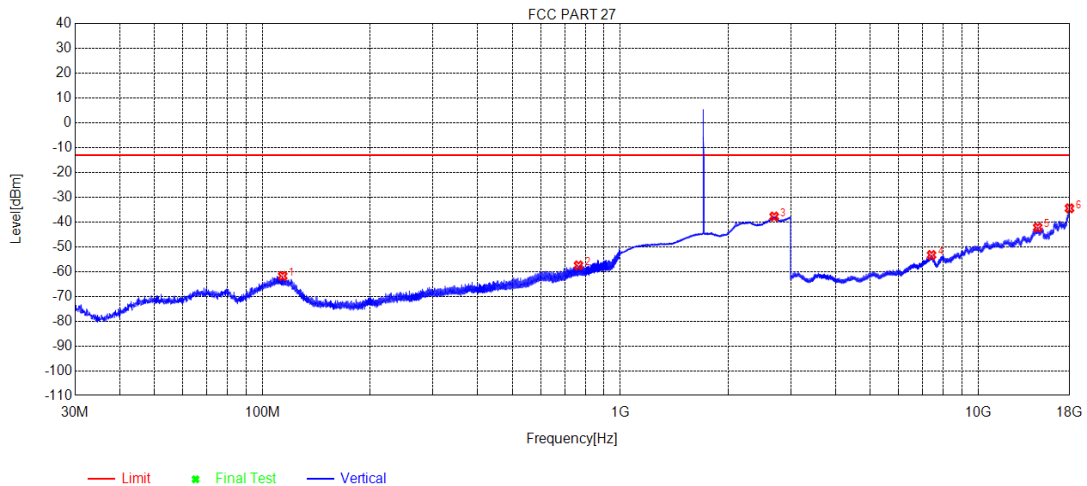
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**7.6. Test Band = WCDMA\_IV\_TM1 DOWN ANT**

**7.6.1. Test Channel = Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	114.0547	-67.82	-61.77	-13.00	48.77	Vertical
2	764.9087	-67.14	-57.48	-13.00	44.48	Vertical
3	2692.7385	-69.29	-37.76	-13.00	24.76	Vertical
4	7410.1470	-53.79	-53.28	-13.00	40.28	Vertical
5	14669.889	-54.16	-42.17	-13.00	29.17	Vertical
6	17997.499	-52.26	-34.44	-13.00	21.44	Vertical



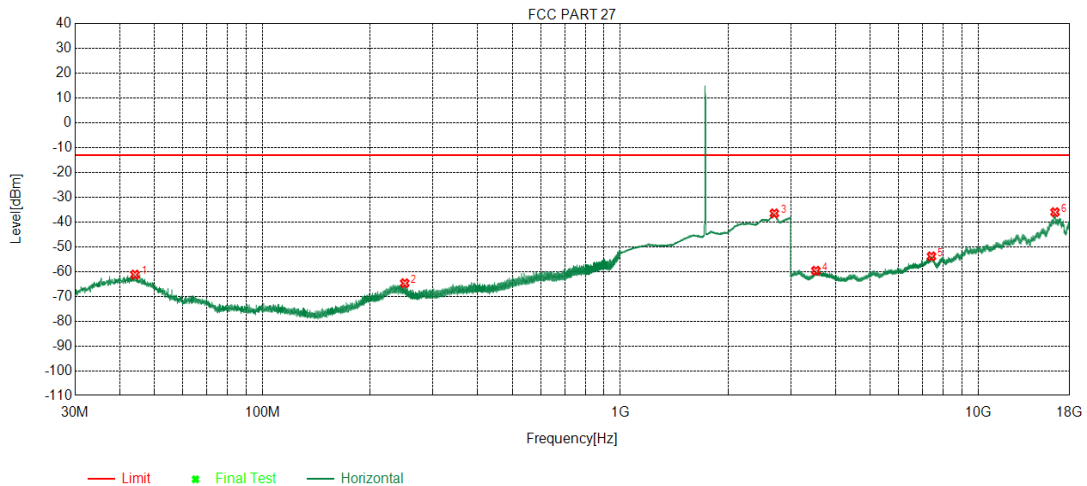
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**7.7. Test Band = WCDMA\_IV\_TM1 DOWN ANT**

**7.7.1. Test Channel = Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.1142	-68.17	-61.20	-13.00	48.20	Horizontal
2	250.1040	-67.23	-64.68	-13.00	51.68	Horizontal
3	2695.9392	-69.30	-36.49	-13.00	23.49	Horizontal
4	3522.0174	-50.89	-59.64	-13.00	46.64	Horizontal
5	7408.1469	-53.77	-53.83	-13.00	40.83	Horizontal
6	16401.946	-50.40	-36.00	-13.00	23.00	Horizontal



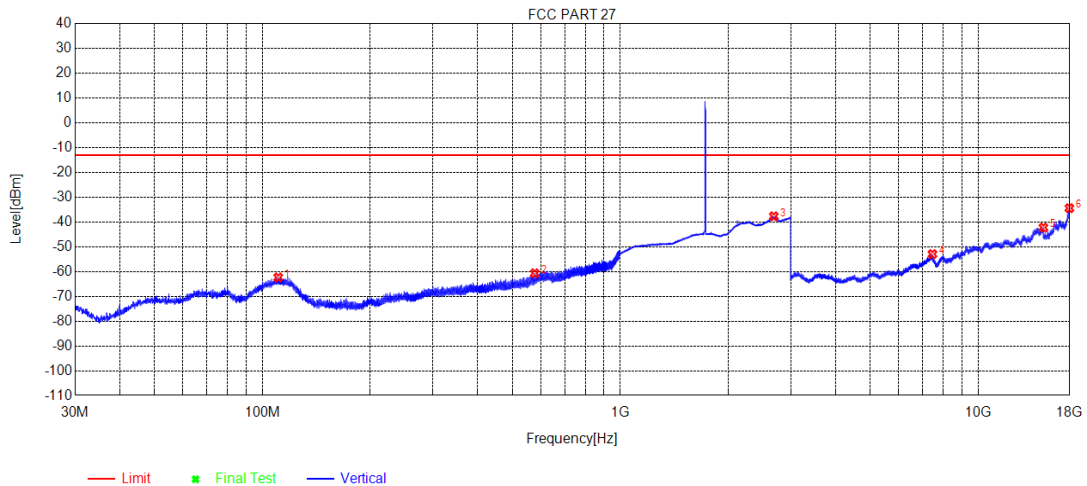
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**7.8. Test Band = WCDMA\_IV\_TM1 DOWN ANT**

**7.8.1. Test Channel = Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.8050	-68.70	-62.36	-13.00	49.36	Vertical
2	577.1559	-67.18	-60.67	-13.00	47.67	Vertical
3	2685.9372	-69.06	-37.66	-13.00	24.66	Vertical
4	7453.6485	-53.23	-52.93	-13.00	39.93	Vertical
5	15216.407	-53.02	-42.21	-13.00	29.21	Vertical
6	17984.499	-51.88	-34.39	-13.00	21.39	Vertical



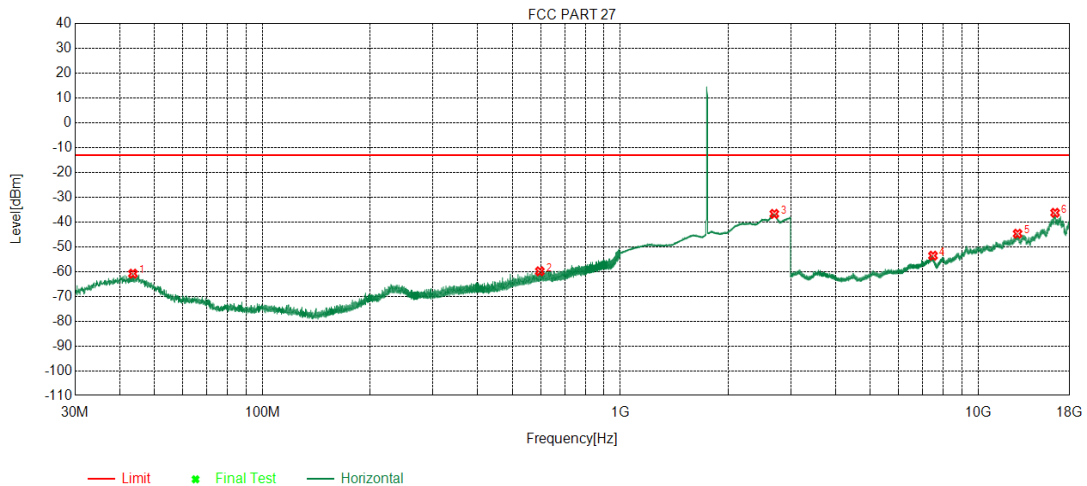
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**7.9. Test Band = WCDMA\_IV\_TM1 DOWN ANT**

**7.9.1. Test Channel = High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.5322	-67.77	-60.83	-13.00	47.83	Horizontal
2	596.5083	-67.42	-59.87	-13.00	46.87	Horizontal
3	2695.9392	-69.49	-36.68	-13.00	23.68	Horizontal
4	7479.6493	-53.56	-53.57	-13.00	40.57	Horizontal
5	12891.829	-54.36	-44.69	-13.00	31.69	Horizontal
6	16407.446	-50.52	-36.26	-13.00	23.26	Horizontal



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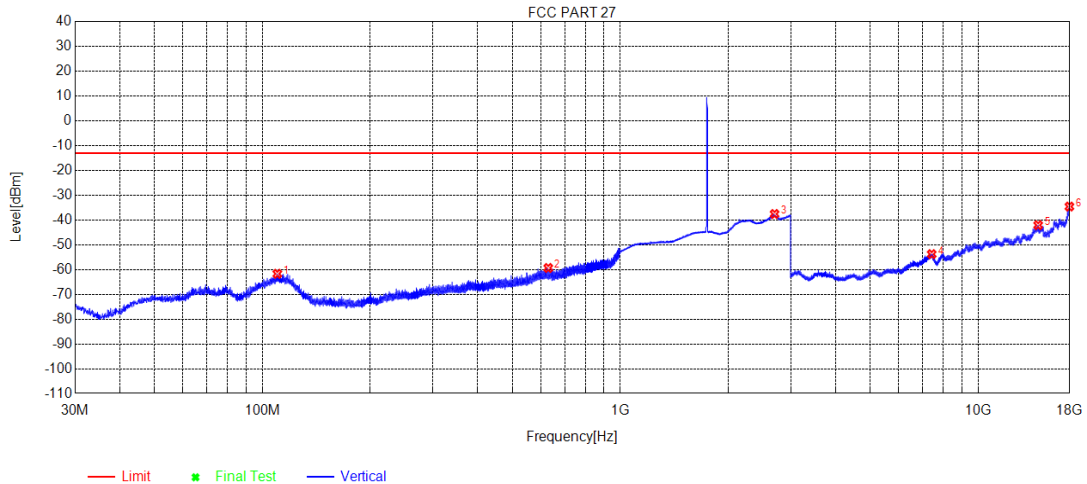
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**7.10. Test Band = WCDMA\_IV\_TM1 DOWN ANT**

**7.10.1. Test Channel = High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.1745	-68.08	-61.69	-13.00	48.69	Vertical
2	629.5870	-66.87	-59.33	-13.00	46.33	Vertical
3	2699.5399	-69.20	-37.54	-13.00	24.54	Vertical
4	7418.6473	-54.23	-53.76	-13.00	40.76	Vertical
5	14713.390	-54.13	-42.05	-13.00	29.05	Vertical
6	17989.999	-52.18	-34.55	-13.00	21.55	Vertical



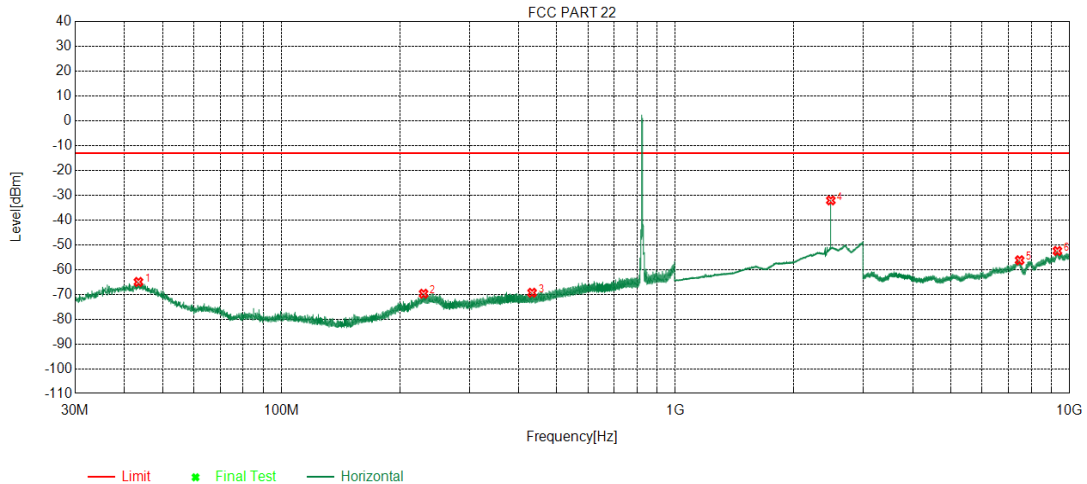
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**7.11. Test Band = WCDMA\_V\_TM1 DOWN ANT**

**7.11.1. Test Channel = Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.4352	-71.90	-64.96	-13.00	51.96	Horizontal
2	229.7815	-72.51	-69.72	-13.00	56.72	Horizontal
3	433.0552	-72.43	-69.32	-13.00	56.32	Horizontal
4	2480.2961	-43.04	-32.07	-13.00	19.07	Horizontal
5	7473.6158	-56.20	-56.22	-13.00	43.22	Horizontal
6	9317.9439	-58.22	-52.45	-13.00	39.45	Horizontal



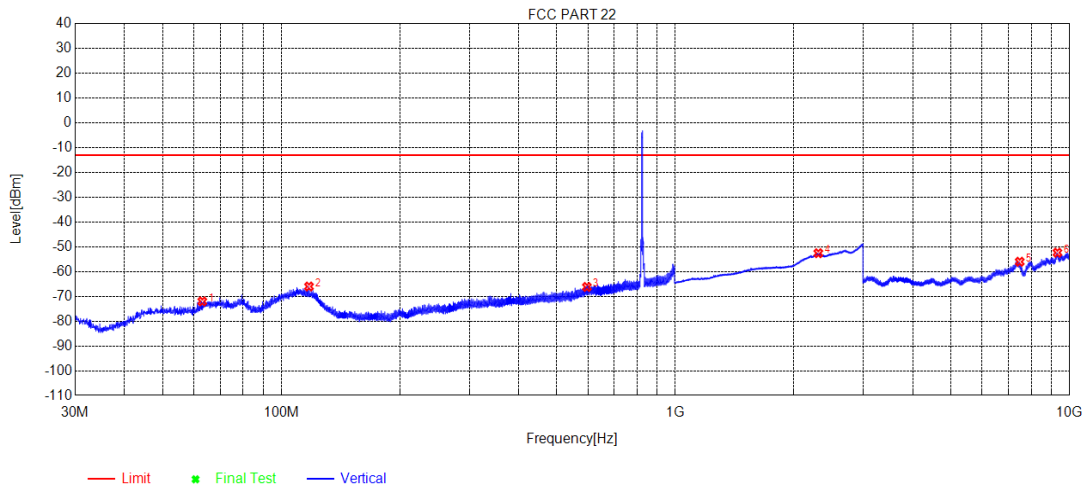
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**7.12. Test Band = WCDMA\_V\_TM1 DOWN ANT**

**7.12.1. Test Channel = Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	63.0787	-72.36	-72.03	-13.00	59.03	Vertical
2	117.6439	-71.75	-66.01	-13.00	53.01	Vertical
3	596.6053	-73.67	-66.20	-13.00	53.20	Vertical
4	2305.4611	-62.75	-52.56	-13.00	39.56	Vertical
5	7478.0493	-56.21	-56.02	-13.00	43.02	Vertical
6	9319.3440	-58.27	-52.35	-13.00	39.35	Vertical

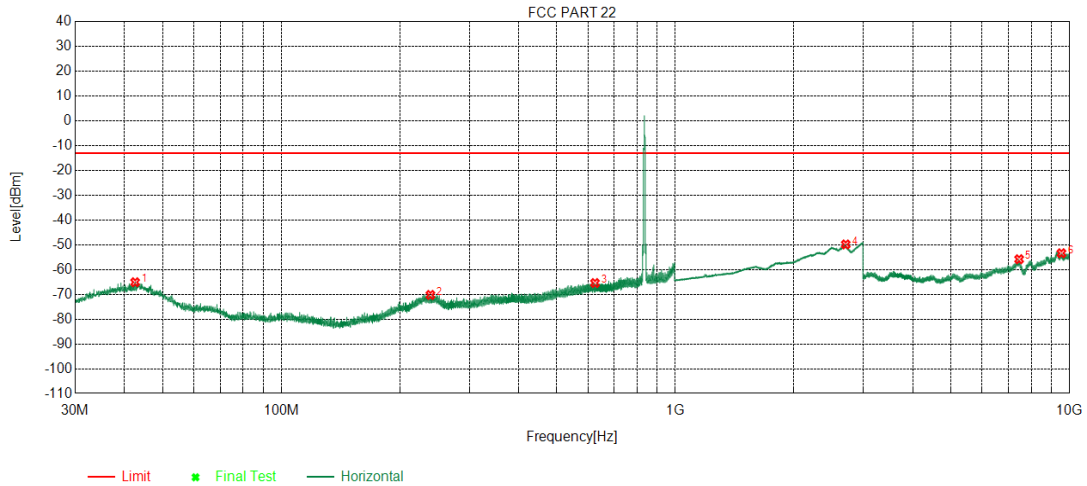


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**7.13. Test Band = WCDMA\_V\_TM1 DOWN ANT**  
**7.13.1. Test Channel = Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.6106	-71.99	-65.09	-13.00	52.09	Horizontal
2	239.1425	-73.01	-70.22	-13.00	57.22	Horizontal
3	625.3673	-73.17	-65.41	-13.00	52.41	Horizontal
4	2705.9412	-62.60	-49.83	-13.00	36.83	Horizontal
5	7450.5150	-55.77	-55.80	-13.00	42.80	Horizontal
6	9540.7847	-58.41	-53.39	-13.00	40.39	Horizontal



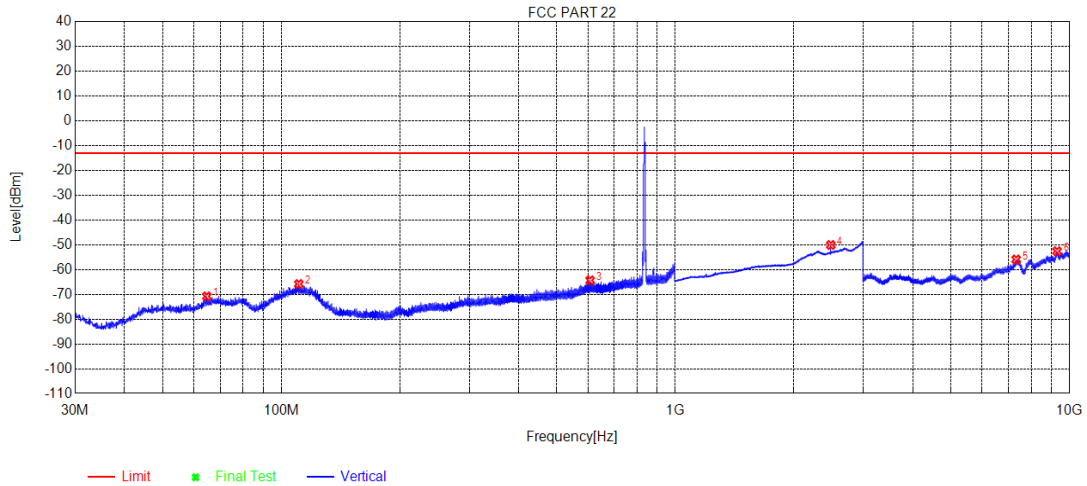
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**7.14. Test Band = WCDMA\_V\_TM1 DOWN ANT**

**7.14.1. Test Channel = Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	64.7762	-72.05	-70.79	-13.00	57.79	Vertical
2	110.8535	-72.15	-65.82	-13.00	52.82	Vertical
3	607.8094	-71.94	-64.33	-13.00	51.33	Vertical
4	2480.2961	-59.50	-50.06	-13.00	37.06	Vertical
5	7323.1108	-56.38	-55.89	-13.00	42.89	Vertical
6	9298.3433	-58.65	-52.57	-13.00	39.57	Vertical



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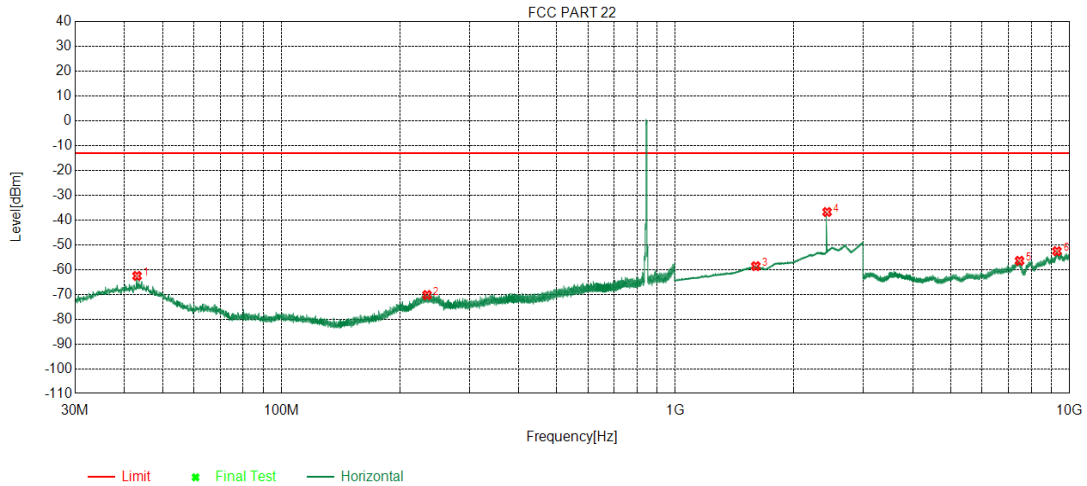
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**7.15. Test Band = WCDMA\_V\_TM1 DOWN ANT**

**7.15.1. Test Channel = High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.0957	-69.46	-62.54	-13.00	49.54	Horizontal
2	234.4862	-73.04	-70.23	-13.00	57.23	Horizontal
3	1600.1200	-63.13	-58.60	-13.00	45.60	Horizontal
4	2426.6853	-46.57	-36.74	-13.00	23.74	Horizontal
5	7469.6490	-56.42	-56.44	-13.00	43.44	Horizontal
6	9294.3765	-58.42	-52.56	-13.00	39.56	Horizontal



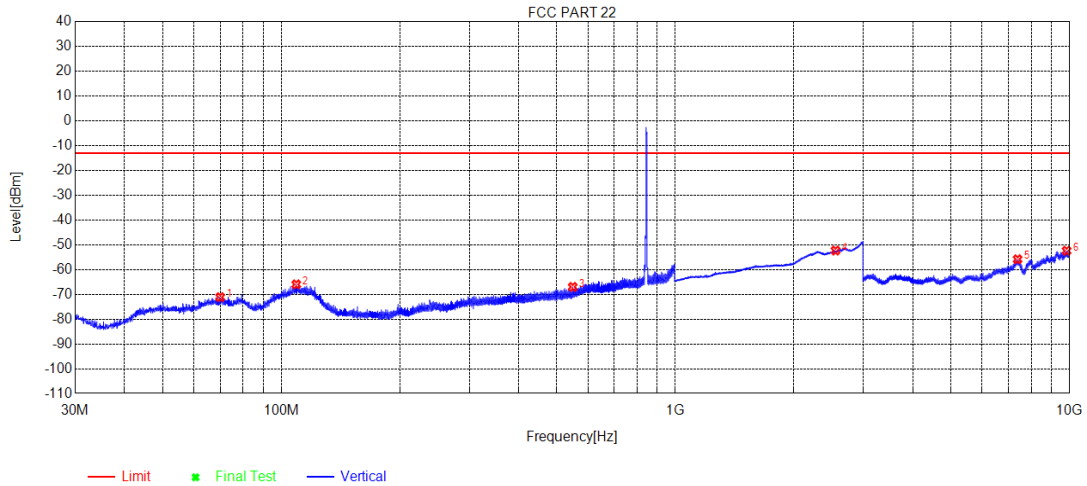
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**7.16. Test Band = WCDMA\_V\_TM1 DOWN ANT**

**7.16.1. Test Channel = High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	70.0145	-72.73	-71.13	-13.00	58.13	Vertical
2	109.2045	-72.18	-65.96	-13.00	52.96	Vertical
3	549.1215	-72.15	-66.99	-13.00	53.99	Vertical
4	2549.5099	-61.98	-52.30	-13.00	39.30	Vertical
5	7384.0128	-56.37	-55.82	-13.00	42.82	Vertical
6	9832.2277	-58.88	-52.39	-13.00	39.39	Vertical



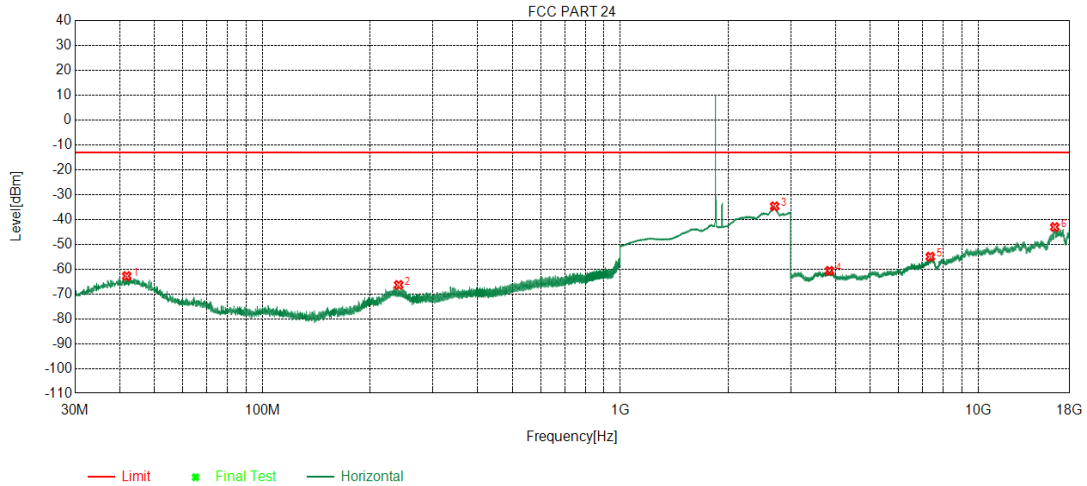
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**7.17. Test Band = WCDMA\_II\_TM1 UP ANT**

**7.17.1. Test Channel = Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.8346	-69.62	-62.76	-13.00	49.76	Horizontal
2	240.4520	-69.14	-66.36	-13.00	53.36	Horizontal
3	2701.1402	-67.55	-34.66	-13.00	21.66	Horizontal
4	3843.0281	-52.51	-60.68	-13.00	47.68	Horizontal
5	7351.1450	-54.81	-54.99	-13.00	41.99	Horizontal
6	16371.945	-56.99	-43.04	-13.00	30.04	Horizontal



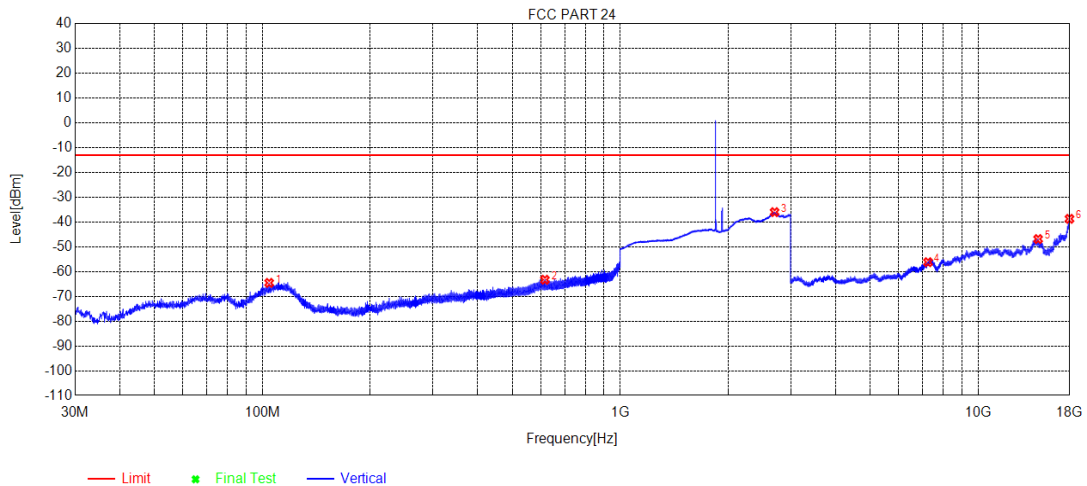
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**7.18. Test Band = WCDMA\_II\_TM1 UP ANT**

**7.18.1. Test Channel = Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	104.5482	-69.68	-64.54	-13.00	51.54	Vertical
2	616.2003	-70.86	-63.28	-13.00	50.28	Vertical
3	2700.7401	-67.64	-35.98	-13.00	22.98	Vertical
4	7245.6415	-56.26	-56.18	-13.00	43.18	Vertical
5	14709.890	-58.95	-46.85	-13.00	33.85	Vertical
6	17999.500	-56.56	-38.69	-13.00	25.69	Vertical



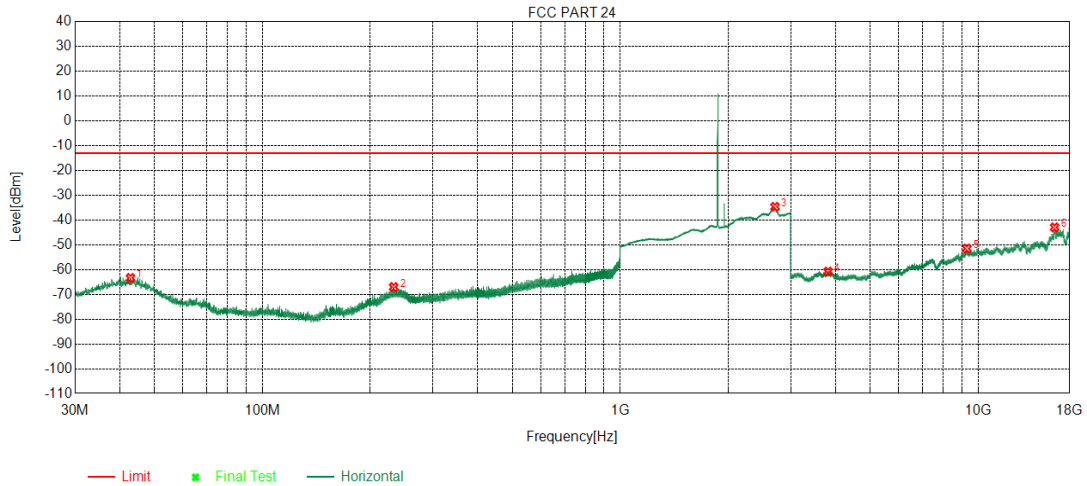
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**7.19. Test Band = WCDMA\_II\_TM1 UP ANT**

**7.19.1. Test Channel = Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.8531	-70.26	-63.35	-13.00	50.35	Horizontal
2	232.8856	-69.84	-67.02	-13.00	54.02	Horizontal
3	2707.9416	-67.31	-34.64	-13.00	21.64	Horizontal
4	3808.5270	-52.51	-60.77	-13.00	47.77	Horizontal
5	9303.7101	-57.40	-51.50	-13.00	38.50	Horizontal
6	16358.945	-56.65	-42.94	-13.00	29.94	Horizontal



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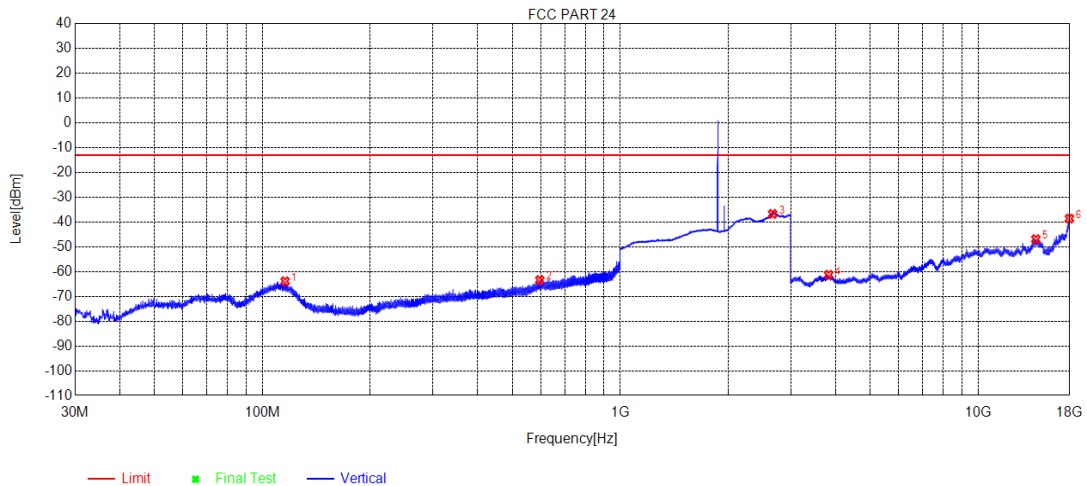
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**7.20. Test Band = WCDMA\_II\_TM1 UP ANT**

**7.20.1. Test Channel = High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	115.8493	-69.80	-63.90	-13.00	50.90	Vertical
2	596.3143	-70.85	-63.39	-13.00	50.39	Vertical
3	2667.1334	-67.74	-36.70	-13.00	23.70	Vertical
4	3823.5275	-52.47	-61.28	-13.00	48.28	Vertical
5	14493.883	-59.36	-46.90	-13.00	33.90	Vertical
6	17992.999	-56.28	-38.58	-13.00	25.58	Vertical



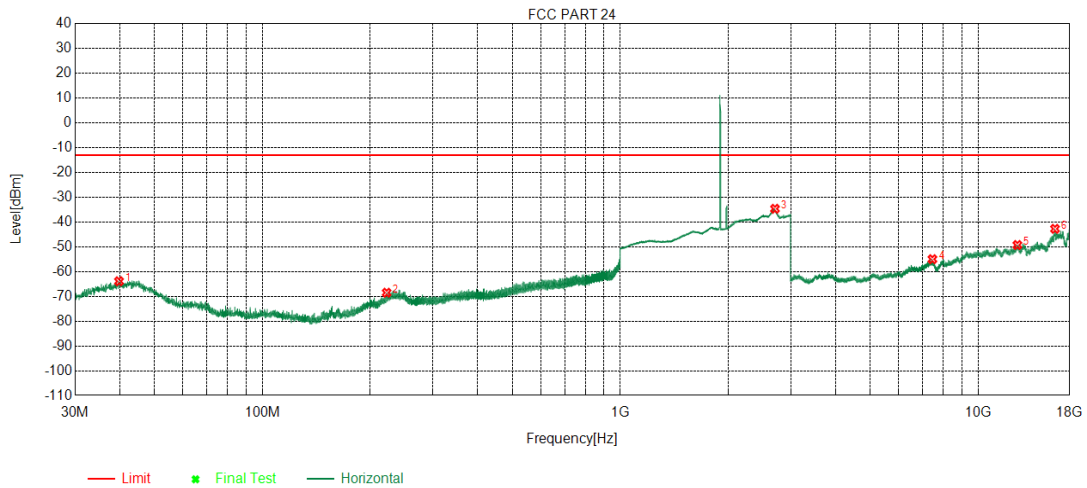
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**7.21. Test Band = WCDMA\_II\_TM1 UP ANT**

**7.21.1. Test Channel = High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	39.7975	-70.58	-63.89	-13.00	50.89	Horizontal
2	222.6516	-70.02	-68.51	-13.00	55.51	Horizontal
3	2707.1414	-67.33	-34.63	-13.00	21.63	Horizontal
4	7452.6484	-54.95	-54.98	-13.00	41.98	Horizontal
5	12872.829	-58.82	-49.26	-13.00	36.26	Horizontal
6	16397.946	-57.13	-42.72	-13.00	29.72	Horizontal



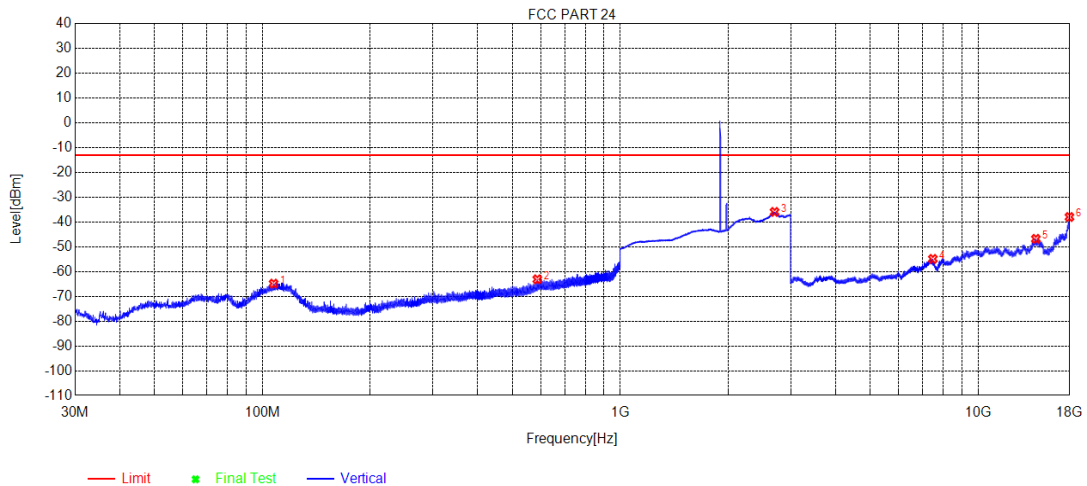
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**7.22. Test Band = WCDMA\_II\_TM1 UP ANT**

**7.22.1. Test Channel = Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	107.6039	-70.70	-64.85	-13.00	51.85	Vertical
2	586.8563	-70.10	-63.11	-13.00	50.11	Vertical
3	2700.3401	-67.57	-35.90	-13.00	22.90	Vertical
4	7474.6492	-55.08	-54.88	-13.00	41.88	Vertical
5	14500.383	-59.29	-46.78	-13.00	33.78	Vertical
6	17997.499	-55.77	-37.95	-13.00	24.95	Vertical



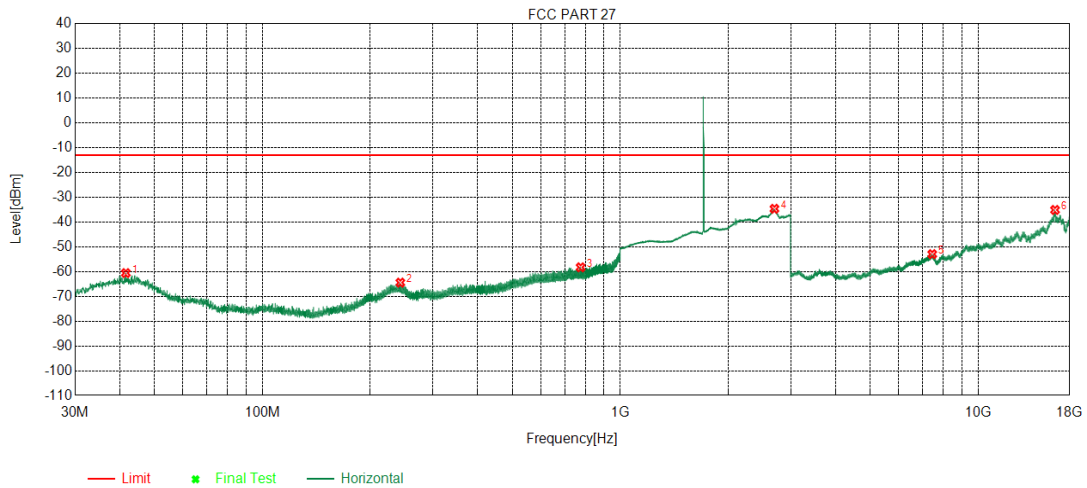
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**7.23. Test Band = WCDMA\_IV\_TM1 UP ANT**

**7.23.1. Test Channel = Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.5921	-67.43	-60.59	-13.00	47.59	Horizontal
2	243.1197	-67.16	-64.44	-13.00	51.44	Horizontal
3	775.3853	-68.16	-58.25	-13.00	45.25	Horizontal
4	2697.5395	-67.50	-34.64	-13.00	21.64	Horizontal
5	7444.1481	-52.92	-52.95	-13.00	39.95	Horizontal
6	16401.946	-49.50	-35.10	-13.00	22.10	Horizontal



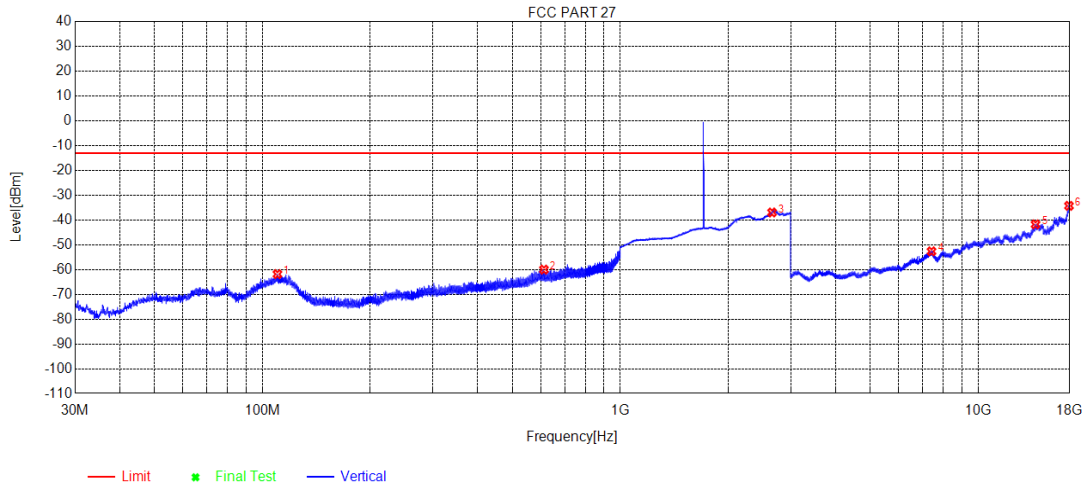
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**7.24. Test Band = WCDMA\_IV\_TM1 UP ANT**

**7.24.1. Test Channel = Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.2715	-68.21	-61.82	-13.00	48.82	Vertical
2	612.3686	-67.60	-60.00	-13.00	47.00	Vertical
3	2656.3313	-67.77	-36.93	-13.00	23.93	Vertical
4	7411.1470	-53.14	-52.63	-13.00	39.63	Vertical
5	14467.382	-53.98	-41.73	-13.00	28.73	Vertical
6	17940.498	-50.64	-34.25	-13.00	21.25	Vertical



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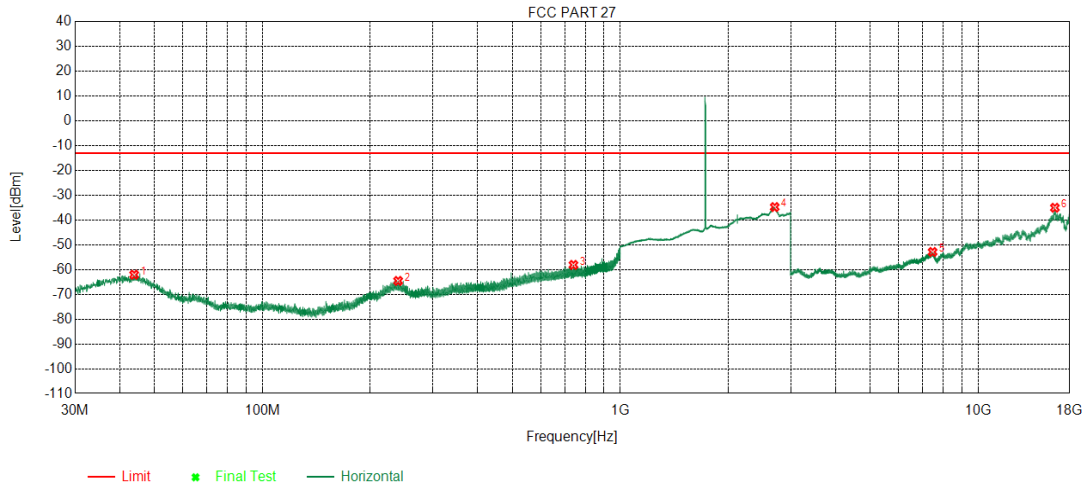
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**7.25. Test Band = WCDMA\_IV\_TM1 UP ANT**

**7.25.1. Test Channel = Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.8717	-69.02	-62.06	-13.00	49.06	Horizontal
2	239.6760	-67.34	-64.55	-13.00	51.55	Horizontal
3	740.5120	-67.75	-58.10	-13.00	45.10	Horizontal
4	2702.3405	-67.60	-34.75	-13.00	21.75	Horizontal
5	7461.1487	-52.85	-52.87	-13.00	39.87	Horizontal
6	16385.446	-49.21	-35.02	-13.00	22.02	Horizontal



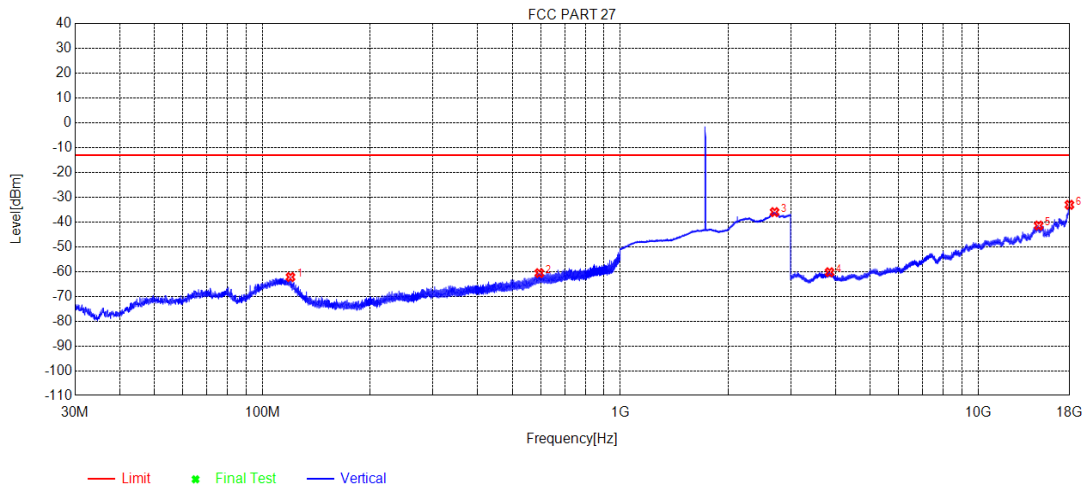
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**7.26. Test Band = WCDMA\_IV\_TM1 UP ANT**

**7.26.1. Test Channel = Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	119.9235	-67.73	-62.19	-13.00	49.19	Vertical
2	594.4712	-67.98	-60.61	-13.00	47.61	Vertical
3	2699.9400	-67.64	-35.97	-13.00	22.97	Vertical
4	3845.5282	-51.46	-60.24	-13.00	47.24	Vertical
5	14763.892	-53.17	-41.41	-13.00	28.41	Vertical
6	17989.499	-50.65	-33.03	-13.00	20.03	Vertical



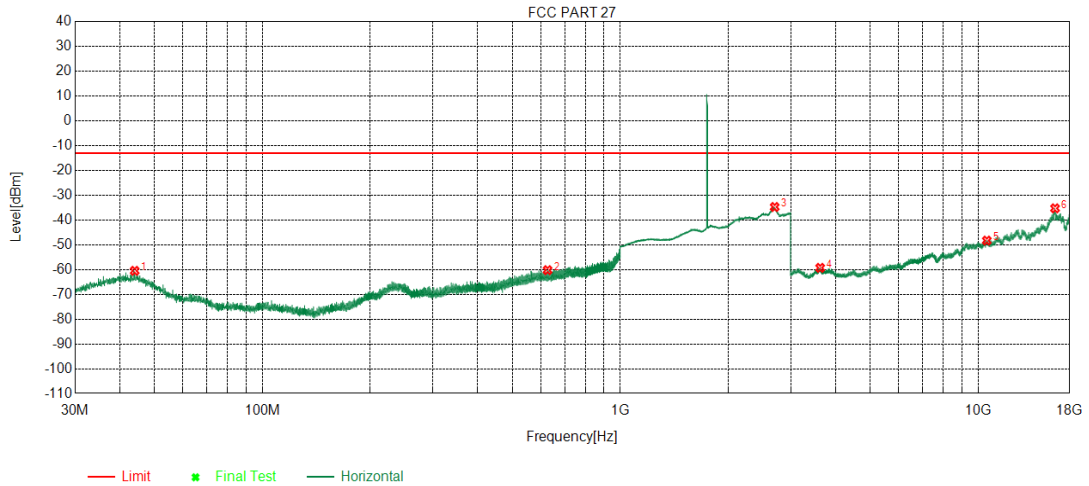
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**7.27. Test Band = WCDMA\_IV\_TM1 UP ANT**

**7.27.1. Test Channel = High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.0172	-67.45	-60.48	-13.00	47.48	Horizontal
2	626.8708	-67.97	-60.21	-13.00	47.21	Horizontal
3	2701.9404	-67.59	-34.72	-13.00	21.72	Horizontal
4	3620.0207	-51.10	-59.28	-13.00	46.28	Horizontal
5	10575.252	-54.40	-48.27	-13.00	35.27	Horizontal
6	16401.946	-49.66	-35.26	-13.00	22.26	Horizontal



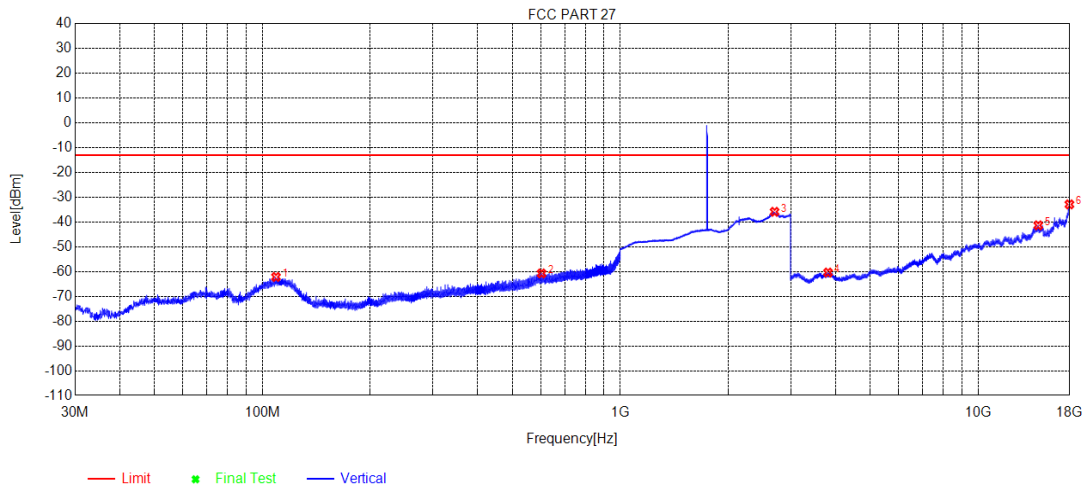
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**7.28. Test Band = WCDMA\_IV\_TM1 UP ANT**

**7.28.1. Test Channel = Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	109.2530	-68.40	-62.16	-13.00	49.16	Vertical
2	603.0077	-68.36	-60.73	-13.00	47.73	Vertical
3	2700.3401	-67.52	-35.85	-13.00	22.85	Vertical
4	3807.5269	-51.54	-60.38	-13.00	47.38	Vertical
5	14723.890	-53.32	-41.31	-13.00	28.31	Vertical
6	17993.999	-50.59	-32.86	-13.00	19.86	Vertical

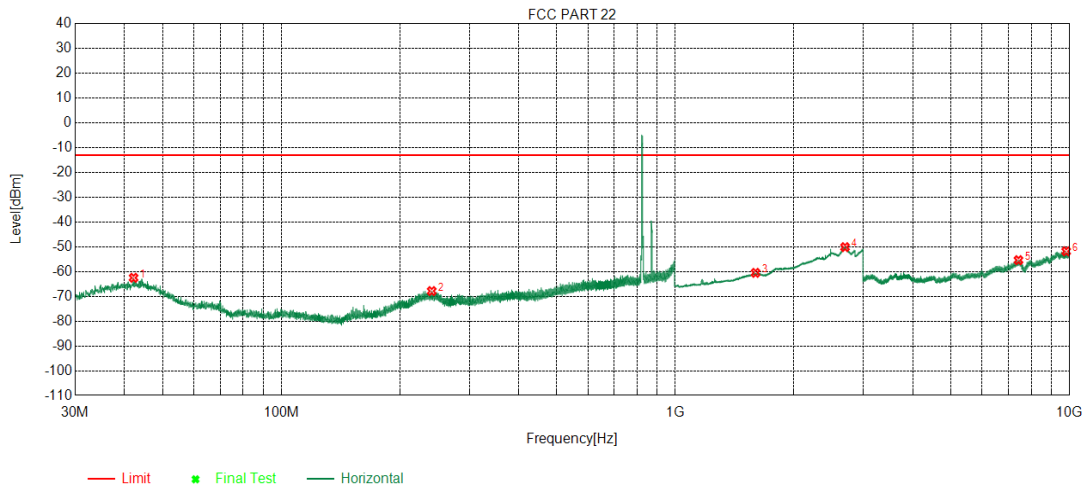


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**7.29. Test Band = WCDMA\_V\_TM1 UP ANT**  
**7.29.1. Test Channel = Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.2226	-69.37	-62.49	-13.00	49.49	Horizontal
2	240.9855	-70.62	-67.85	-13.00	54.85	Horizontal
3	1597.7195	-65.00	-60.49	-13.00	47.49	Horizontal
4	2694.7389	-62.90	-50.12	-13.00	37.12	Horizontal
5	7423.4474	-55.32	-55.37	-13.00	42.37	Horizontal
6	9809.8270	-57.34	-51.80	-13.00	38.80	Horizontal



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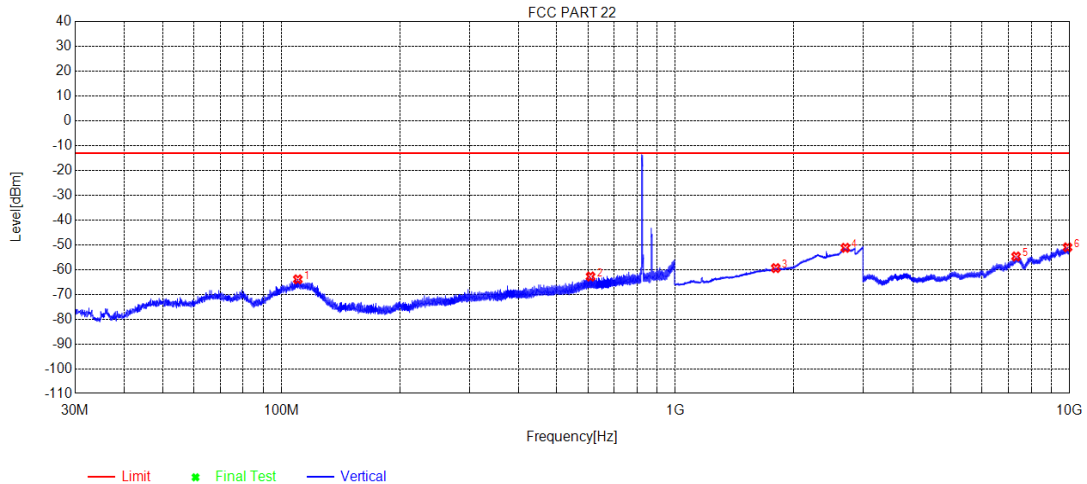
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**7.30. Test Band = WCDMA\_V\_TM1 UP ANT**

**7.30.1. Test Channel = Low Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.2230	-70.31	-63.92	-13.00	50.92	Vertical
2	609.5070	-70.38	-62.77	-13.00	49.77	Vertical
3	1798.1596	-64.60	-59.38	-13.00	46.38	Vertical
4	2700.3401	-62.88	-51.21	-13.00	38.21	Vertical
5	7320.7774	-55.19	-54.70	-13.00	41.70	Vertical
6	9886.5962	-57.39	-51.00	-13.00	38.00	Vertical



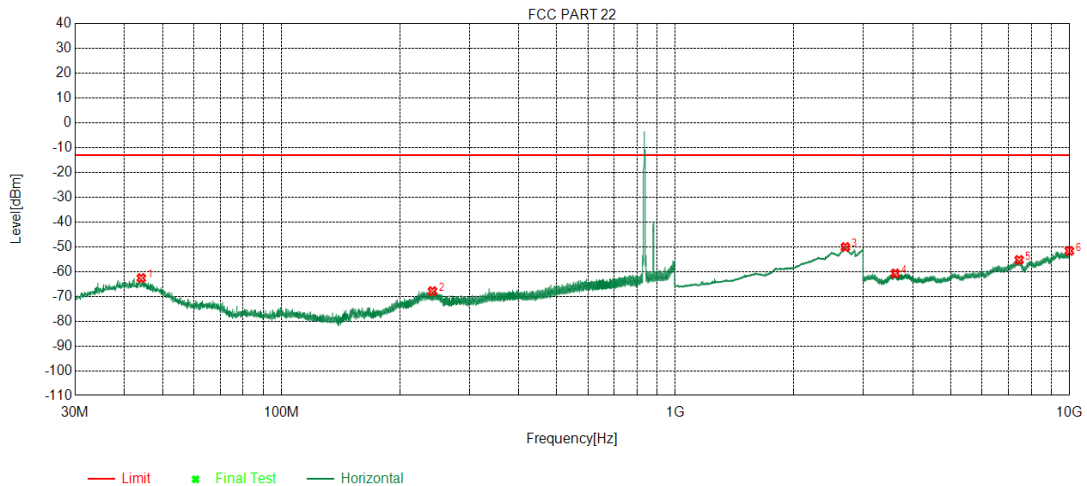
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**7.31. Test Band = WCDMA\_V\_TM1 UP ANT**

**7.31.1. Test Channel = Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.1627	-69.57	-62.59	-13.00	49.59	Horizontal
2	242.0526	-70.64	-67.90	-13.00	54.90	Horizontal
3	2700.7401	-62.99	-50.08	-13.00	37.08	Horizontal
4	3614.1538	-52.58	-60.73	-13.00	47.73	Horizontal
5	7450.0483	-55.26	-55.29	-13.00	42.29	Horizontal
6	9992.2997	-57.15	-51.61	-13.00	38.61	Horizontal



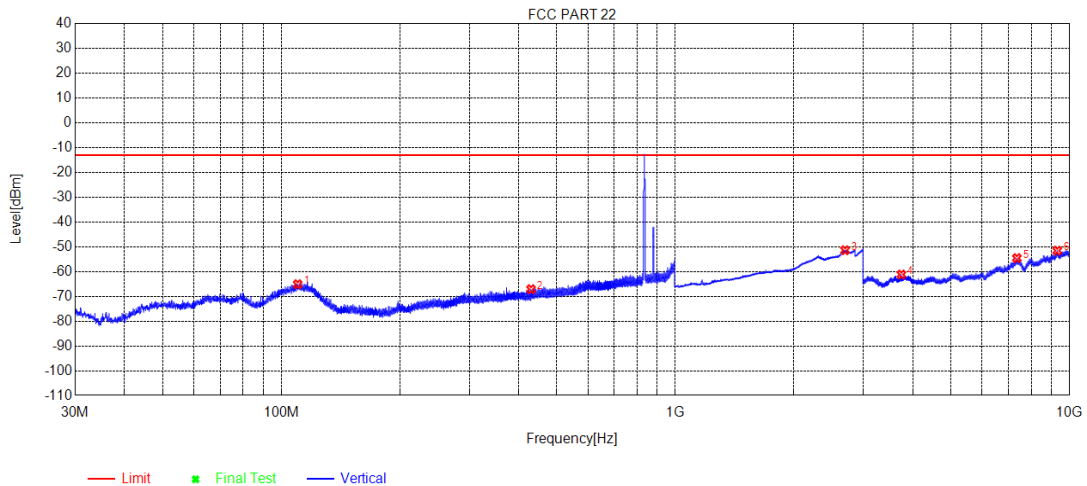
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**7.32. Test Band = WCDMA\_V\_TM1 UP ANT**

**7.32.1. Test Channel = Mid Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.1260	-71.50	-65.10	-13.00	52.10	Vertical
2	430.4845	-70.51	-67.09	-13.00	54.09	Vertical
3	2695.5391	-62.96	-51.37	-13.00	38.37	Vertical
4	3745.5249	-52.04	-61.17	-13.00	48.17	Vertical
5	7352.9784	-55.07	-54.55	-13.00	41.55	Vertical
6	9309.3103	-57.55	-51.53	-13.00	38.53	Vertical



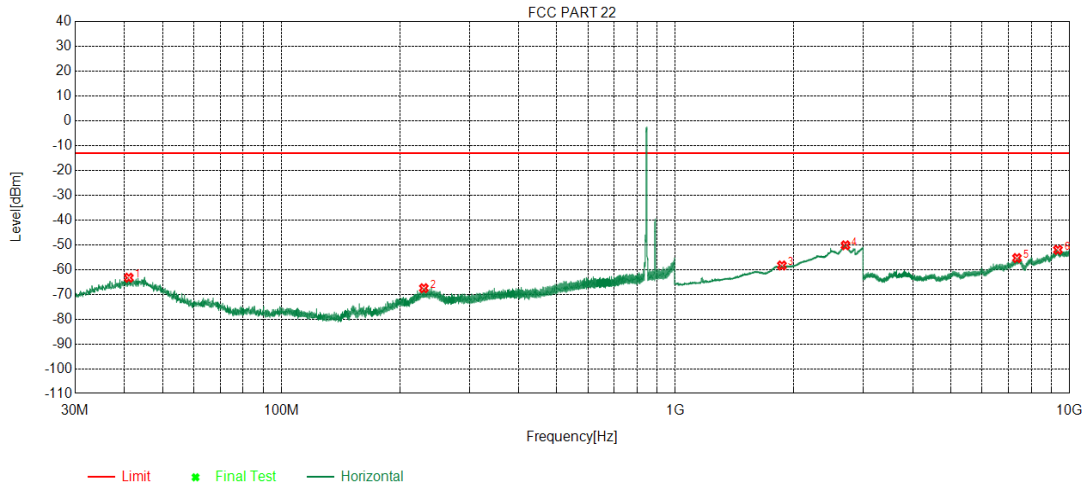
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**7.33. Test Band = WCDMA\_V\_TM1 UP ANT**

**7.33.1. Test Channel = High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.0586	-70.08	-63.26	-13.00	50.26	Horizontal
2	230.0725	-70.32	-67.49	-13.00	54.49	Horizontal
3	1863.7728	-64.35	-58.32	-13.00	45.32	Horizontal
4	2702.3405	-63.04	-50.17	-13.00	37.17	Horizontal
5	7358.8120	-55.16	-55.32	-13.00	42.32	Horizontal
6	9347.5783	-57.50	-52.01	-13.00	39.01	Horizontal



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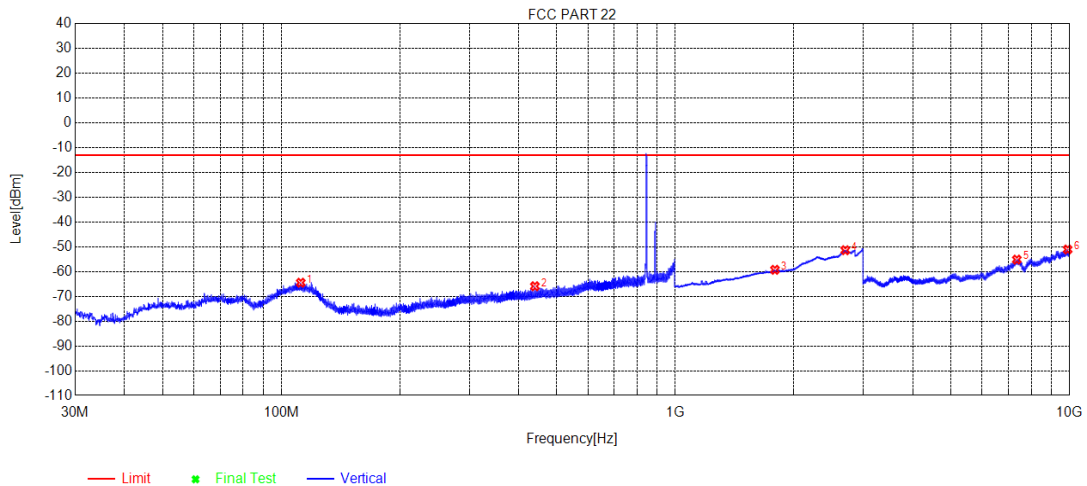
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**7.34. Test Band = WCDMA\_V\_TM1 UP ANT**

**7.34.1. Test Channel = High Channel**

**Test Graph**



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	112.1146	-70.70	-64.48	-13.00	51.48	Vertical
2	440.2335	-69.65	-65.90	-13.00	52.90	Vertical
3	1789.3579	-64.45	-59.26	-13.00	46.26	Vertical
4	2699.1398	-63.02	-51.37	-13.00	38.37	Vertical
5	7352.0451	-55.66	-55.14	-13.00	42.14	Vertical
6	9893.1298	-57.44	-51.06	-13.00	38.06	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	17.23	0.009301	±2.5	PASS
Band2	9262	VN	NT	17.96	0.009696	±2.5	PASS
Band2	9262	VH	NT	14.94	0.008065	±2.5	PASS
Band2	9400	VL	NT	11.58	0.006160	±2.5	PASS
Band2	9400	VN	NT	16.20	0.008617	±2.5	PASS
Band2	9400	VH	NT	14.92	0.007936	±2.5	PASS
Band2	9538	VL	NT	12.45	0.006527	±2.5	PASS
Band2	9538	VN	NT	9.80	0.005137	±2.5	PASS
Band2	9538	VH	NT	11.83	0.006202	±2.5	PASS
Band4	1312	VL	NT	15.47	0.009034	±2.5	PASS
Band4	1312	VN	NT	16.11	0.009408	±2.5	PASS
Band4	1312	VH	NT	7.52	0.004391	±2.5	PASS
Band4	1413	VL	NT	5.58	0.003221	±2.5	PASS
Band4	1413	VN	NT	3.25	0.001876	±2.5	PASS
Band4	1413	VH	NT	8.21	0.004739	±2.5	PASS
Band4	1513	VL	NT	0.92	0.000525	±2.5	PASS
Band4	1513	VN	NT	5.66	0.003229	±2.5	PASS
Band4	1513	VH	NT	1.56	0.000890	±2.5	PASS
Band5	4132	VL	NT	-2.20	-0.002662	±2.5	PASS
Band5	4132	VN	NT	1.45	0.001755	±2.5	PASS
Band5	4132	VH	NT	-2.59	-0.003134	±2.5	PASS
Band5	4182	VL	NT	3.85	0.004603	±2.5	PASS
Band5	4182	VN	NT	9.61	0.011490	±2.5	PASS
Band5	4182	VH	NT	8.06	0.009637	±2.5	PASS
Band5	4233	VL	NT	4.39	0.005185	±2.5	PASS
Band5	4233	VN	NT	2.18	0.002575	±2.5	PASS
Band5	4233	VH	NT	4.21	0.004973	±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	17.91	0.009669	±2.5	PASS
Band2	9262	NV	-20	16.75	0.009042	±2.5	PASS
Band2	9262	NV	-10	15.01	0.008103	±2.5	PASS
Band2	9262	NV	0	14.01	0.007563	±2.5	PASS
Band2	9262	NV	10	16.91	0.009129	±2.5	PASS
Band2	9262	NV	20	14.11	0.007617	±2.5	PASS
Band2	9262	NV	30	13.43	0.007250	±2.5	PASS
Band2	9262	NV	40	14.85	0.008017	±2.5	PASS
Band2	9262	NV	50	14.31	0.007725	±2.5	PASS
Band2	9400	NV	-30	16.07	0.008548	±2.5	PASS
Band2	9400	NV	-20	13.09	0.006963	±2.5	PASS
Band2	9400	NV	-10	13.43	0.007144	±2.5	PASS
Band2	9400	NV	0	11.47	0.006101	±2.5	PASS
Band2	9400	NV	10	13.49	0.007176	±2.5	PASS
Band2	9400	NV	20	14.05	0.007473	±2.5	PASS
Band2	9400	NV	30	11.69	0.006218	±2.5	PASS
Band2	9400	NV	40	15.26	0.008117	±2.5	PASS
Band2	9400	NV	50	12.68	0.006745	±2.5	PASS
Band2	9538	NV	-30	12.08	0.006333	±2.5	PASS
Band2	9538	NV	-20	9.95	0.005216	±2.5	PASS
Band2	9538	NV	-10	7.60	0.003984	±2.5	PASS
Band2	9538	NV	0	7.55	0.003958	±2.5	PASS
Band2	9538	NV	10	10.41	0.005457	±2.5	PASS
Band2	9538	NV	20	13.64	0.007150	±2.5	PASS
Band2	9538	NV	30	9.49	0.004975	±2.5	PASS
Band2	9538	NV	40	6.99	0.003664	±2.5	PASS
Band2	9538	NV	50	8.39	0.004398	±2.5	PASS
Band4	1312	NV	-30	15.24	0.008900	±2.5	PASS
Band4	1312	NV	-20	13.64	0.007965	±2.5	PASS
Band4	1312	NV	-10	7.90	0.004613	±2.5	PASS
Band4	1312	NV	0	11.58	0.006762	±2.5	PASS
Band4	1312	NV	10	11.67	0.006815	±2.5	PASS
Band4	1312	NV	20	13.41	0.007831	±2.5	PASS



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Band4	1312	NV	30	14.89	0.008695	±2.5	PASS
Band4	1312	NV	40	17.64	0.010301	±2.5	PASS
Band4	1312	NV	50	12.37	0.007224	±2.5	PASS
Band4	1413	NV	-30	7.05	0.004069	±2.5	PASS
Band4	1413	NV	-20	6.48	0.003740	±2.5	PASS
Band4	1413	NV	-10	3.20	0.001847	±2.5	PASS
Band4	1413	NV	0	4.91	0.002834	±2.5	PASS
Band4	1413	NV	10	4.76	0.002747	±2.5	PASS
Band4	1413	NV	20	6.87	0.003965	±2.5	PASS
Band4	1413	NV	30	5.13	0.002961	±2.5	PASS
Band4	1413	NV	40	4.87	0.002811	±2.5	PASS
Band4	1413	NV	50	8.50	0.004906	±2.5	PASS
Band4	1513	NV	-30	4.71	0.002687	±2.5	PASS
Band4	1513	NV	-20	2.66	0.001518	±2.5	PASS
Band4	1513	NV	-10	0.81	0.000462	±2.5	PASS
Band4	1513	NV	0	2.73	0.001558	±2.5	PASS
Band4	1513	NV	10	2.70	0.001541	±2.5	PASS
Band4	1513	NV	20	3.36	0.001917	±2.5	PASS
Band4	1513	NV	30	5.77	0.003292	±2.5	PASS
Band4	1513	NV	40	2.79	0.001592	±2.5	PASS
Band4	1513	NV	50	6.15	0.003509	±2.5	PASS
Band5	4132	NV	-30	0.34	0.000411	±2.5	PASS
Band5	4132	NV	-20	-2.11	-0.002553	±2.5	PASS
Band5	4132	NV	-10	-0.15	-0.000182	±2.5	PASS
Band5	4132	NV	0	-0.52	-0.000629	±2.5	PASS
Band5	4132	NV	10	-1.50	-0.001815	±2.5	PASS
Band5	4132	NV	20	-2.94	-0.003558	±2.5	PASS
Band5	4132	NV	30	0.24	0.000290	±2.5	PASS
Band5	4132	NV	40	1.83	0.002214	±2.5	PASS
Band5	4132	NV	50	-3.16	-0.003824	±2.5	PASS
Band5	4182	NV	-30	6.76	0.008082	±2.5	PASS
Band5	4182	NV	-20	6.09	0.007281	±2.5	PASS
Band5	4182	NV	-10	4.00	0.004782	±2.5	PASS
Band5	4182	NV	0	7.83	0.009362	±2.5	PASS
Band5	4182	NV	10	4.41	0.005273	±2.5	PASS
Band5	4182	NV	20	3.19	0.003814	±2.5	PASS
Band5	4182	NV	30	4.26	0.005093	±2.5	PASS



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Band5	4182	NV	40	5.26	0.006289	±2.5	PASS
Band5	4182	NV	50	4.94	0.005906	±2.5	PASS
Band5	4233	NV	-30	4.99	0.005894	±2.5	PASS
Band5	4233	NV	-20	4.73	0.005587	±2.5	PASS
Band5	4233	NV	-10	4.93	0.005823	±2.5	PASS
Band5	4233	NV	0	2.84	0.003355	±2.5	PASS
Band5	4233	NV	10	4.26	0.005032	±2.5	PASS
Band5	4233	NV	20	1.92	0.002268	±2.5	PASS
Band5	4233	NV	30	2.82	0.003331	±2.5	PASS
Band5	4233	NV	40	3.25	0.003839	±2.5	PASS
Band5	4233	NV	50	3.92	0.004630	±2.5	PASS

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