

# 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] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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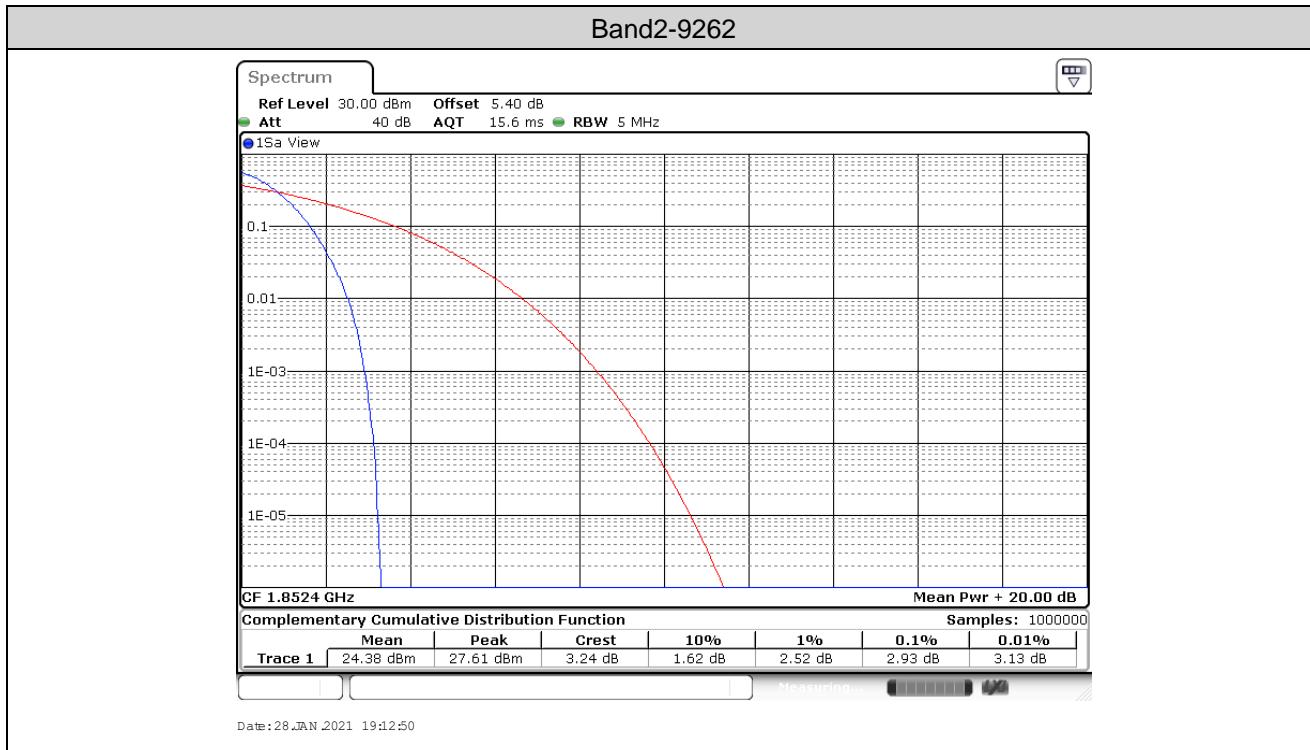
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## 2. Peak-to-Average Ratio(CCDF)

### 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

### 2.2. Test Plots



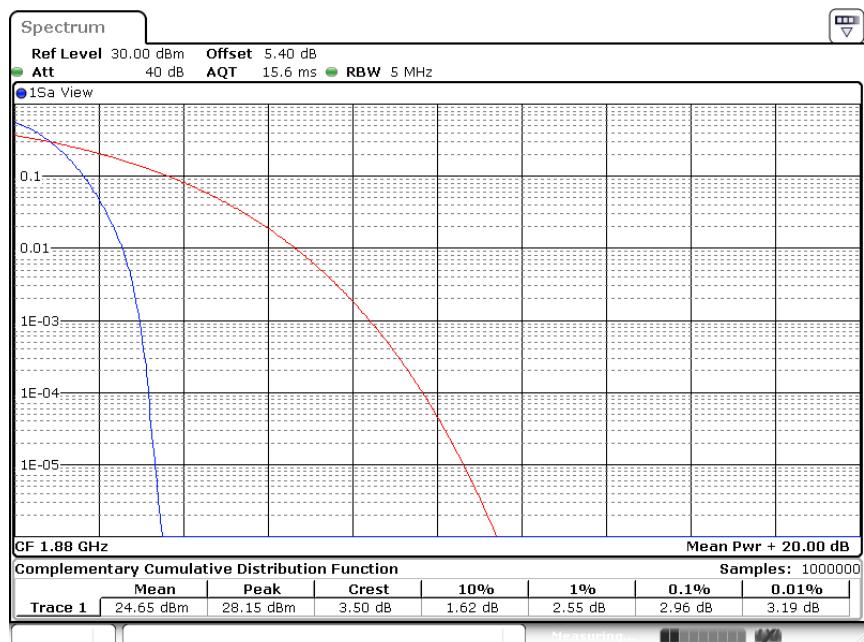
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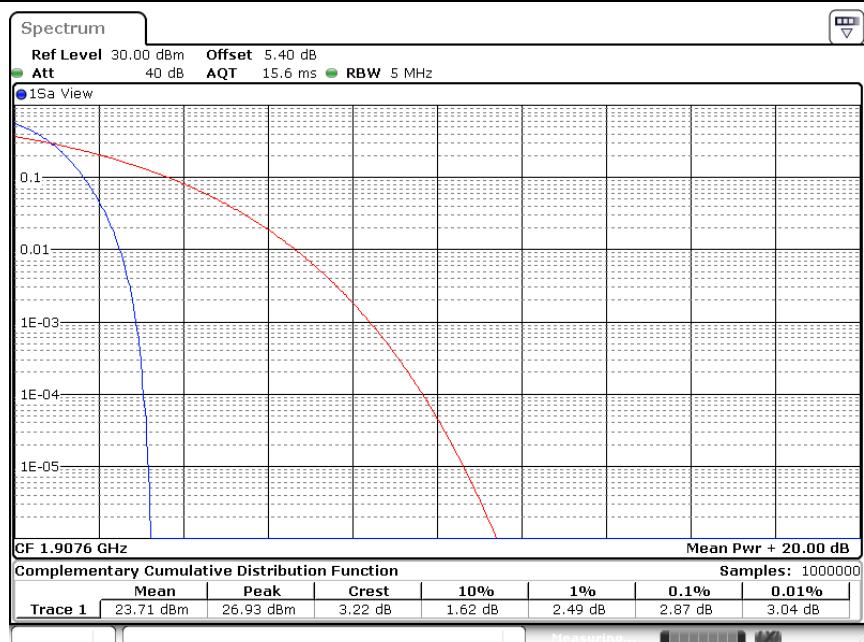
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## Band2-9400



Date: 28 JAN 2021 19:13:06

## Band2-9538



Date: 28 JAN 2021 19:16:00

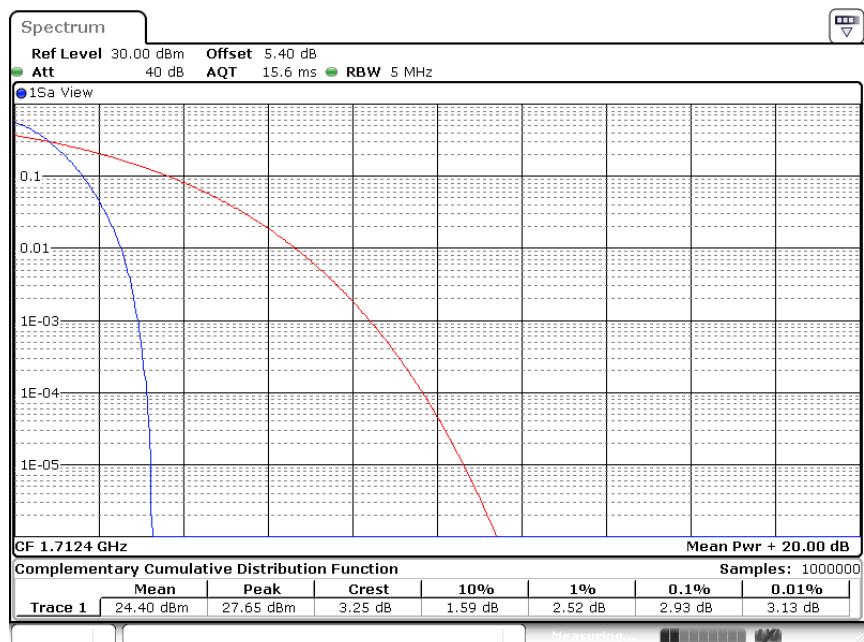
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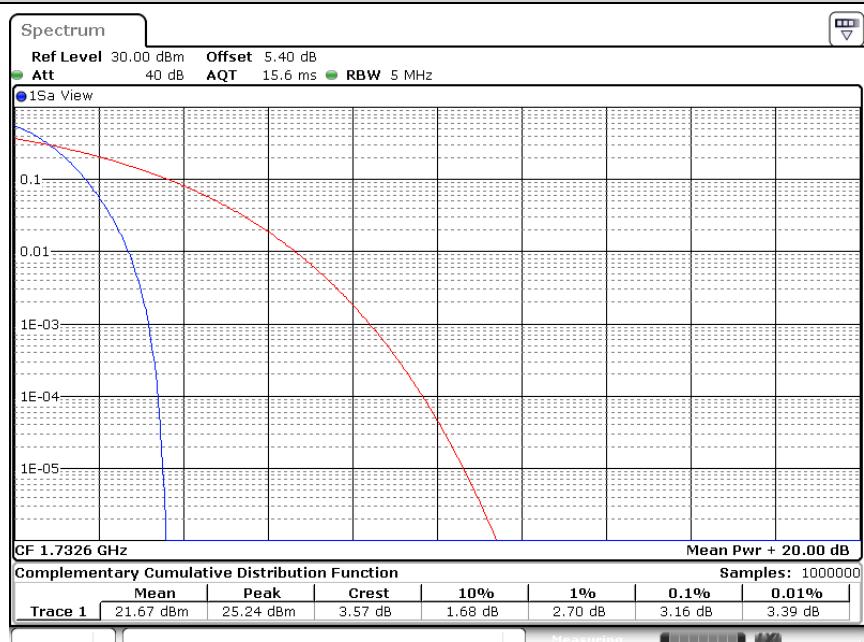
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## Band4-1312



Date: 28 JAN 2021 19:46:33

## Band4-1413



Date: 28 JAN 2021 19:46:49

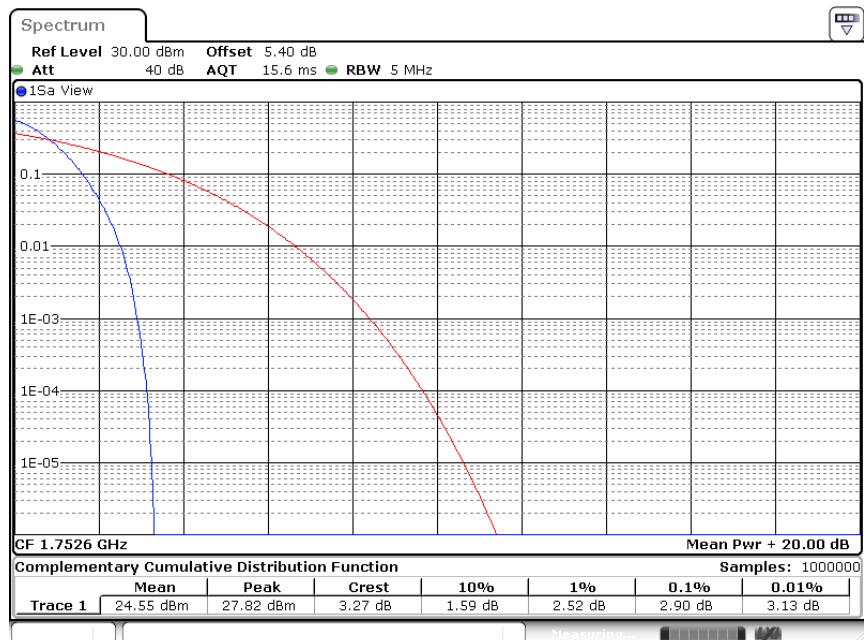
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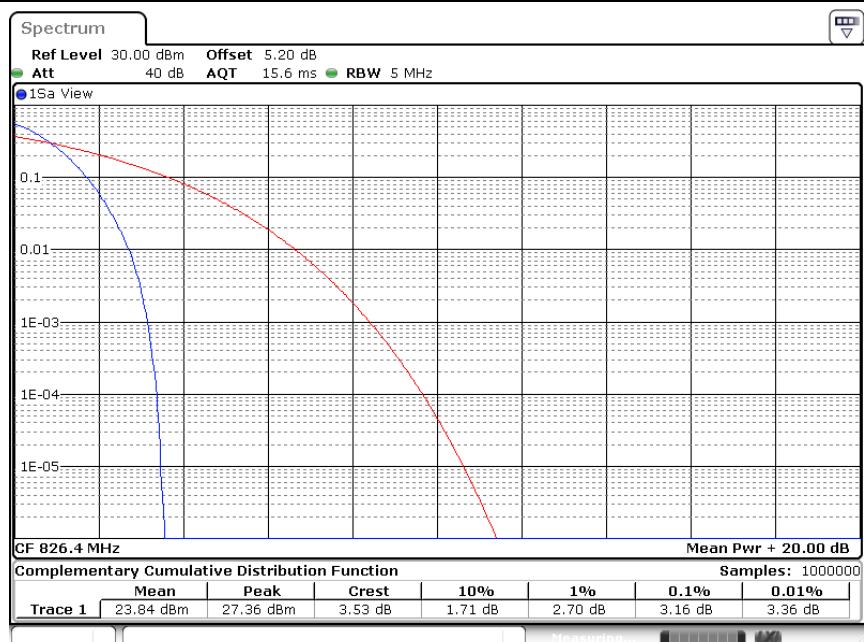
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## Band4-1513



Date: 28 JAN 2021 19:47:52

## Band5-4132



Date: 28 JAN 2021 20:07:11

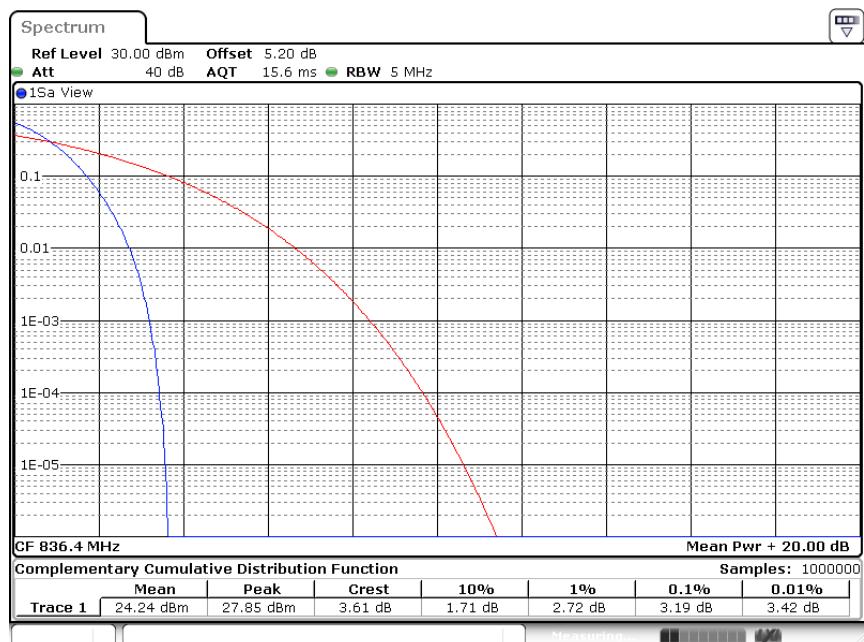
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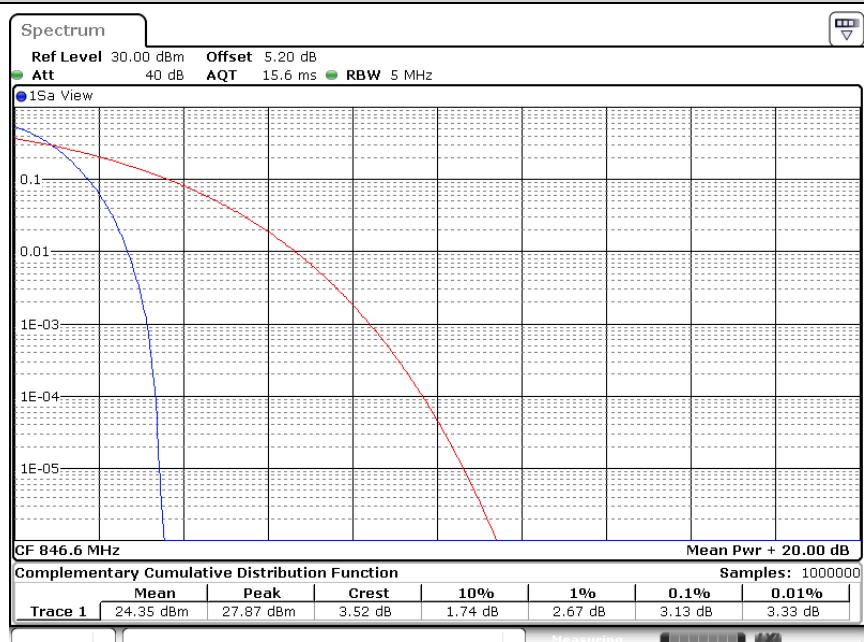
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## Band5-4182



Date: 28 JAN 2021 20:07:27

## Band5-4233



Date: 28 JAN 2021 20:08:53

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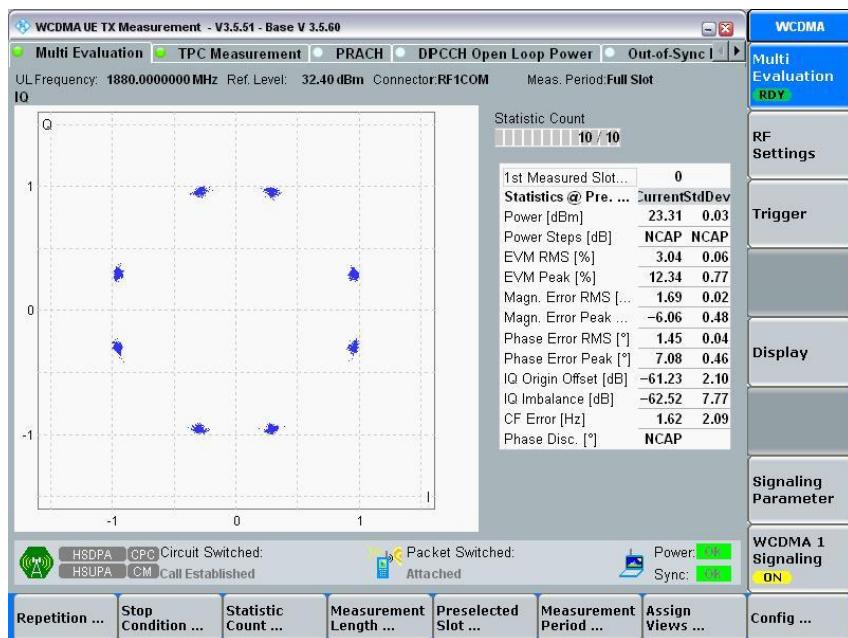
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### 3. Modulation Characteristics

#### 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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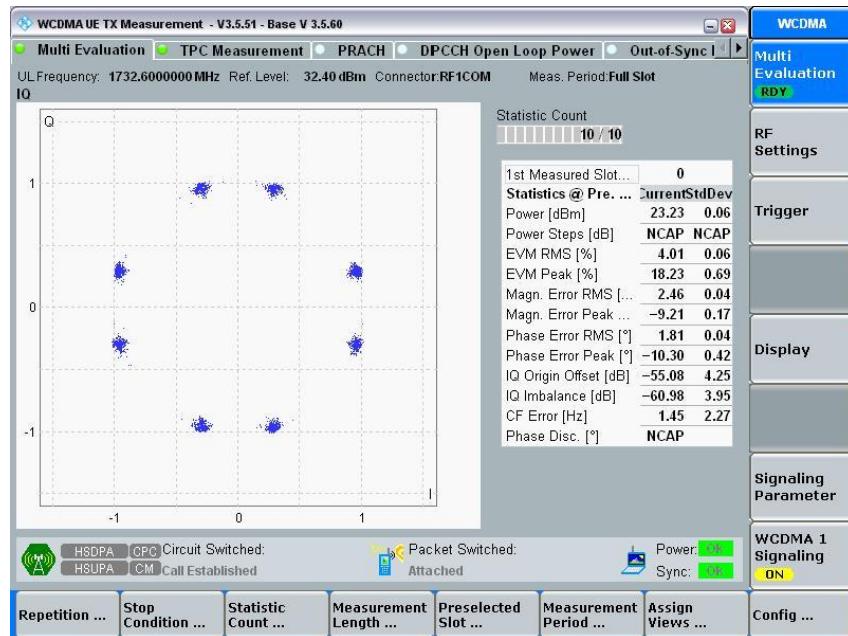
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## 3.2. Test Band = WCDMA Band IV

### 3.2.1. Test Mode = UMTS/TM1

#### 3.2.1.1. Test Channel = MCH



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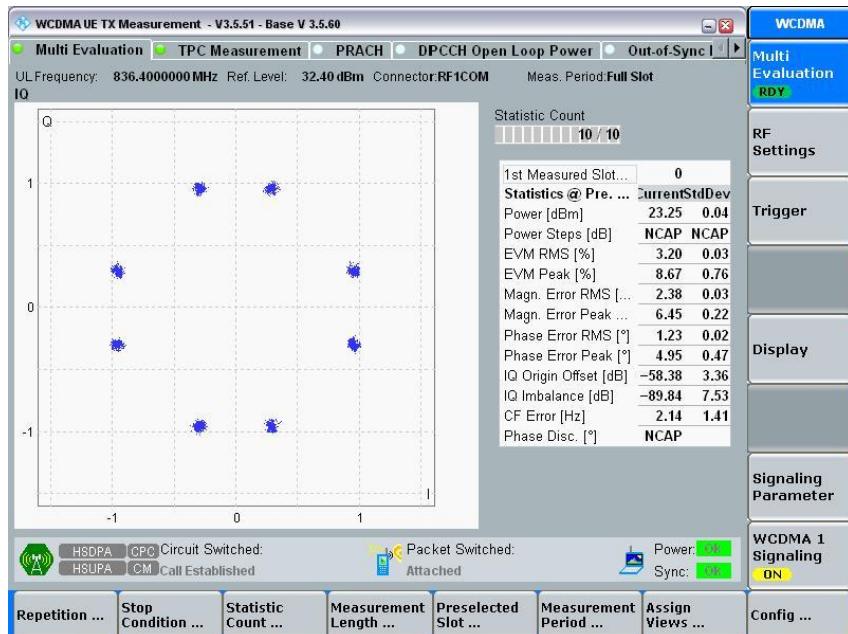
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### 3.3. Test Band = WCDMA Band V

### 3.3.1. Test Mode = UMTS/TM1

### 3.3.1.1. Test Channel = MCH



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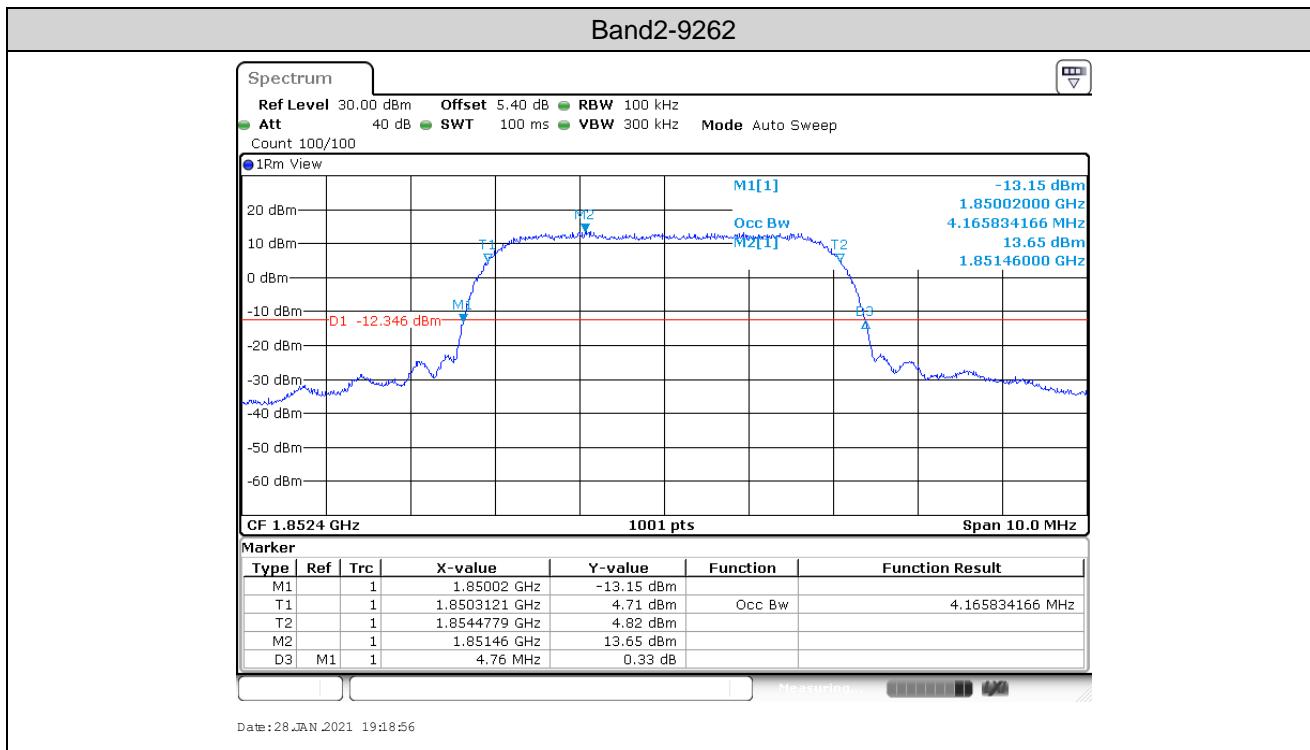
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 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

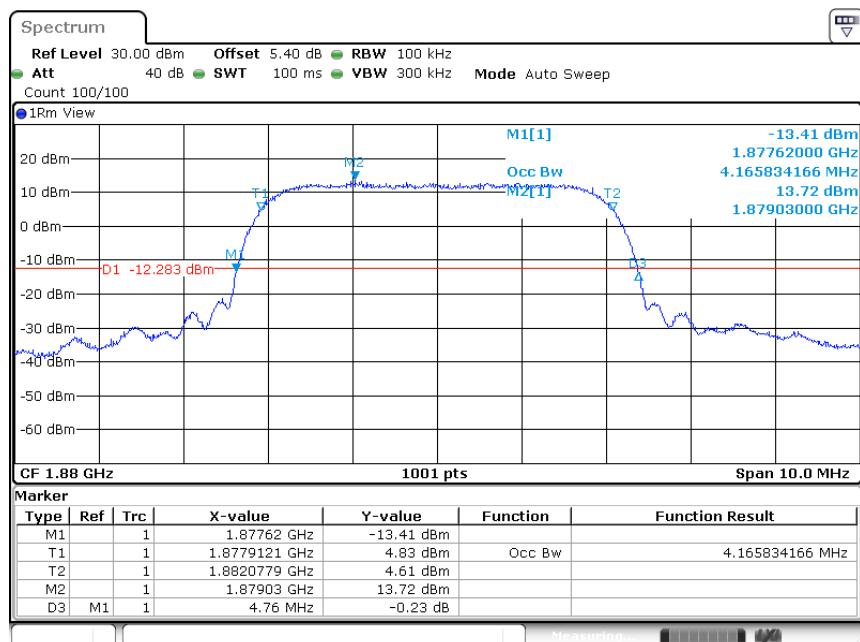


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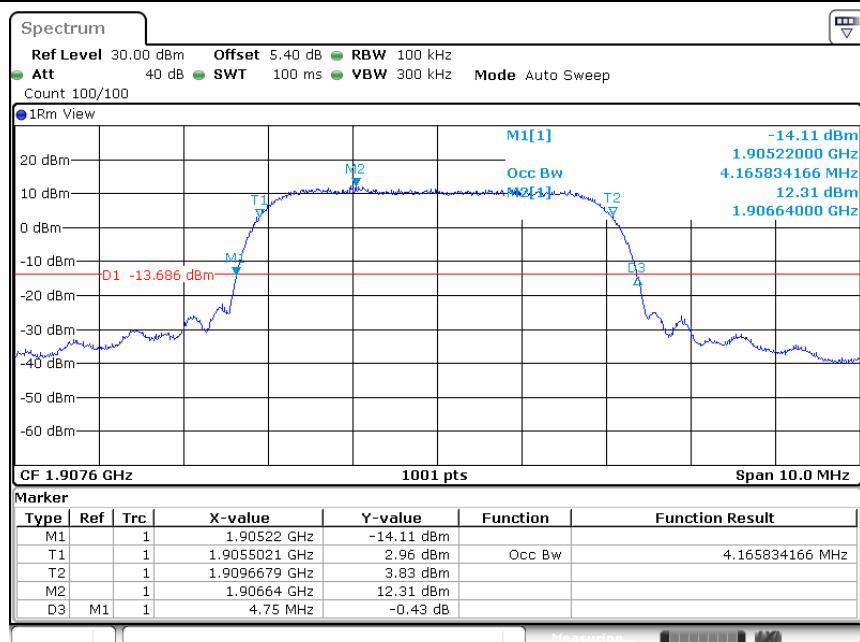


## Band2-9400



Date: 28 JAN 2021 19:19:21

## Band2-9538



Date: 28 JAN 2021 19:19:46

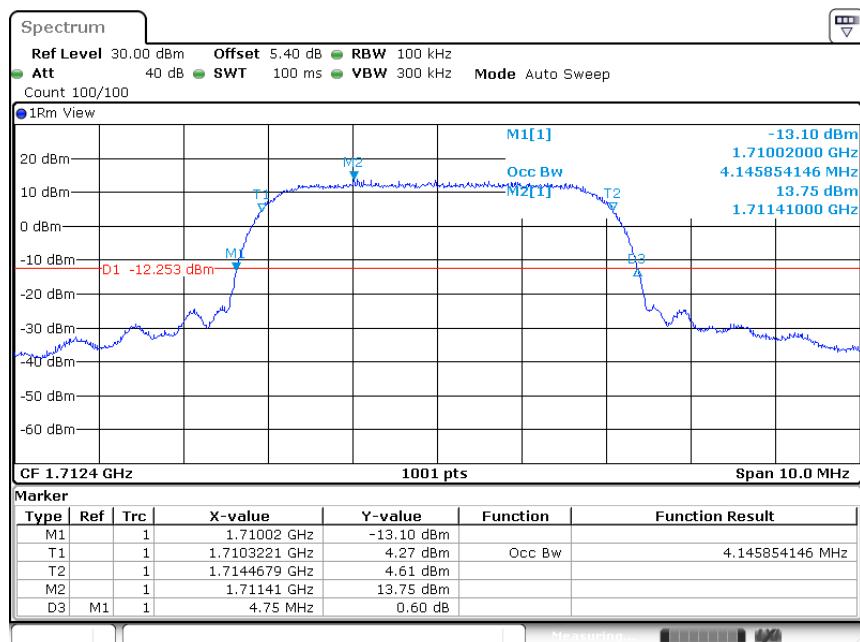
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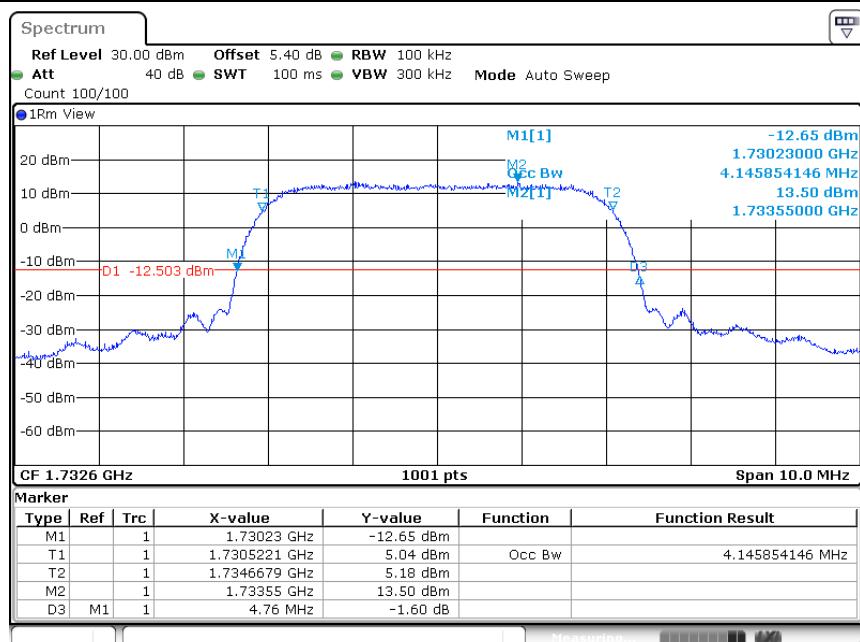
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## Band4-1312



Date: 28 JAN 2021 19:52:33

## Band4-1413



Date: 28 JAN 2021 19:54:01

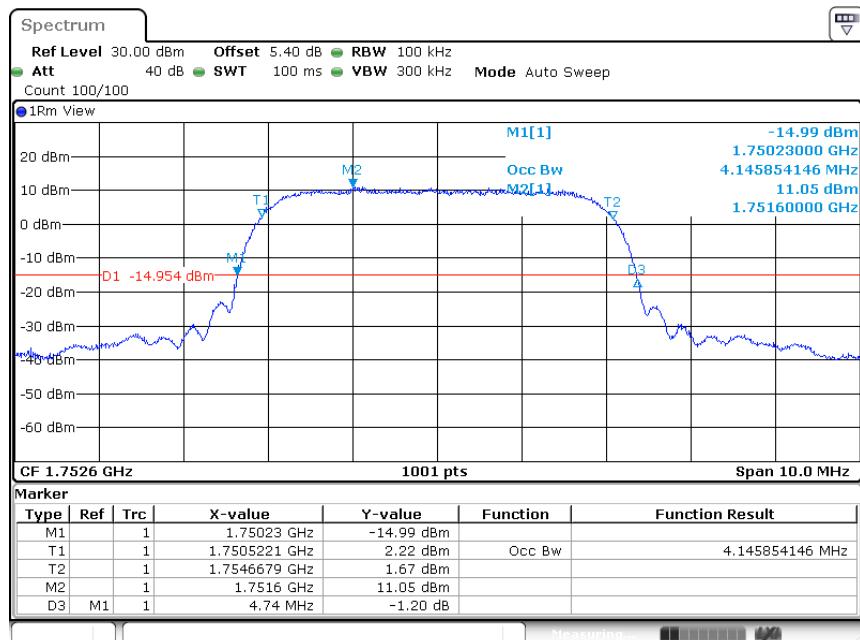
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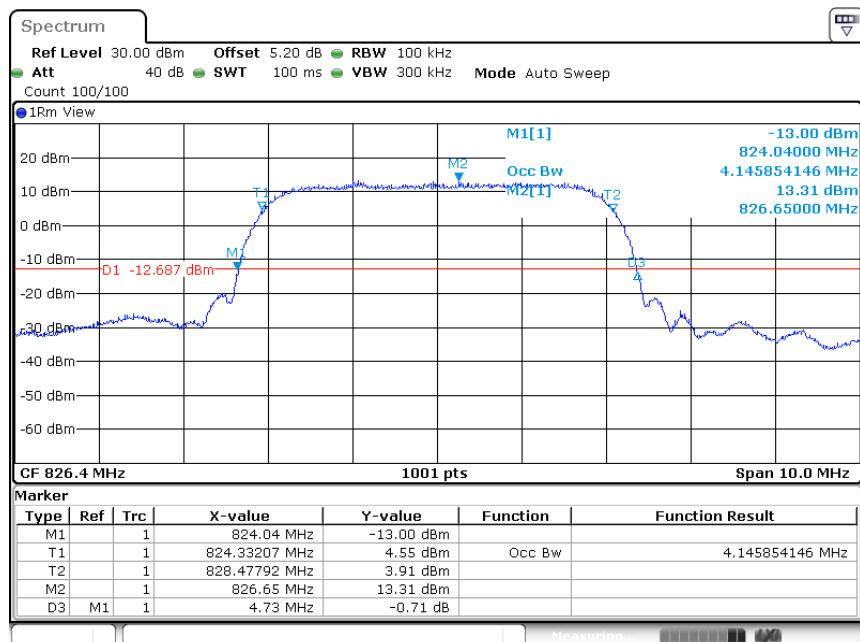
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## Band4-1513



Date: 28 JAN 2021 19:54:26

## Band5-4132



Date: 28 JAN 2021 20:20:02

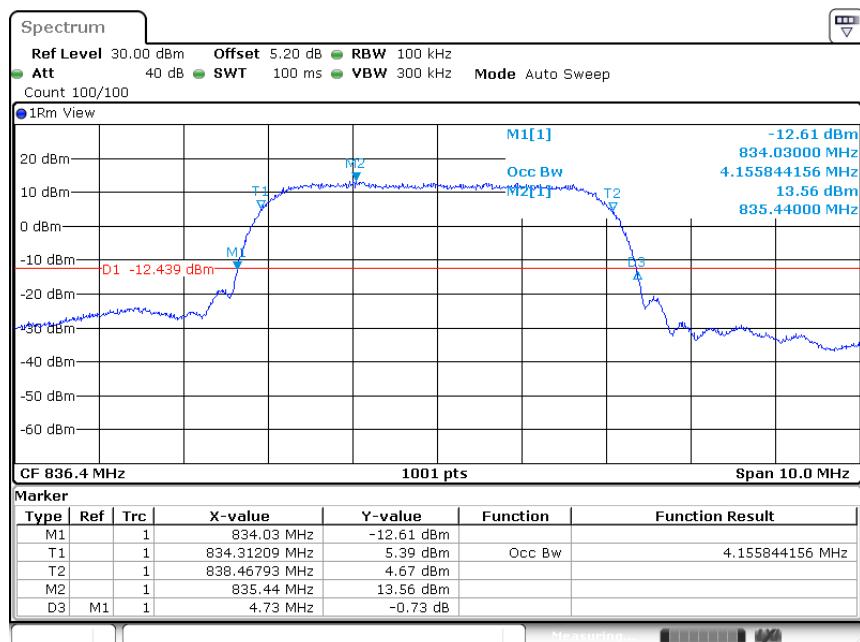
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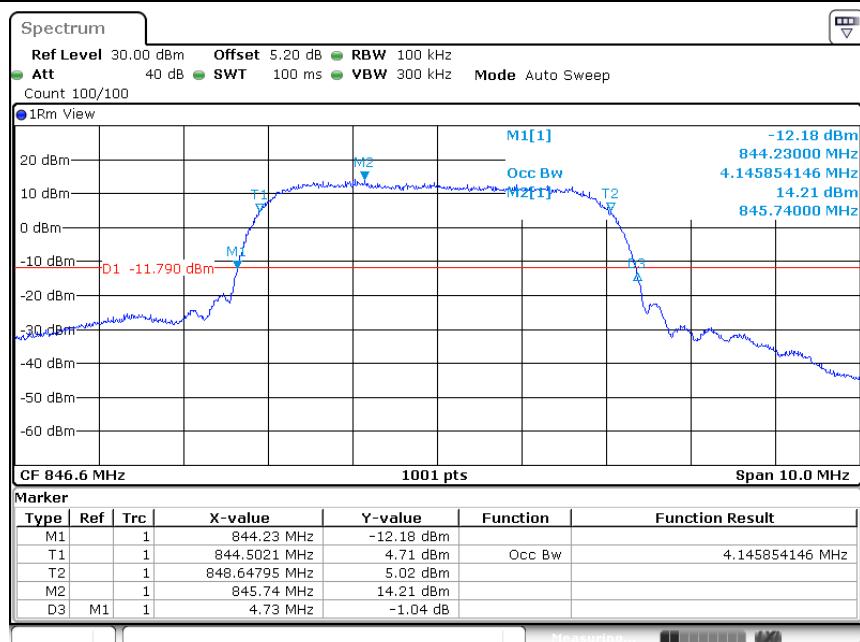
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## Band5-4182



Date: 28 JAN 2021 20:20:28

## Band5-4233



Date: 28 JAN 2021 20:22:21

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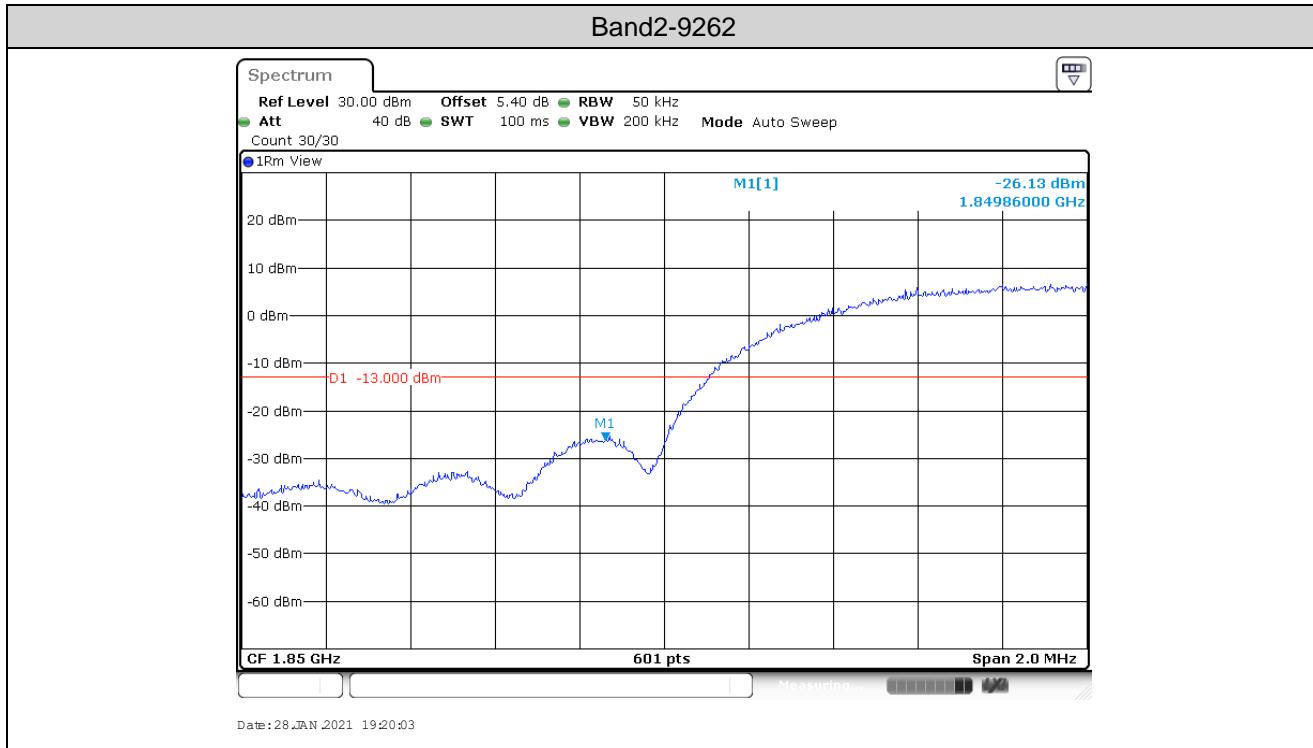


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## 5. Band Edge Compliance

### 5.1. Test Plots



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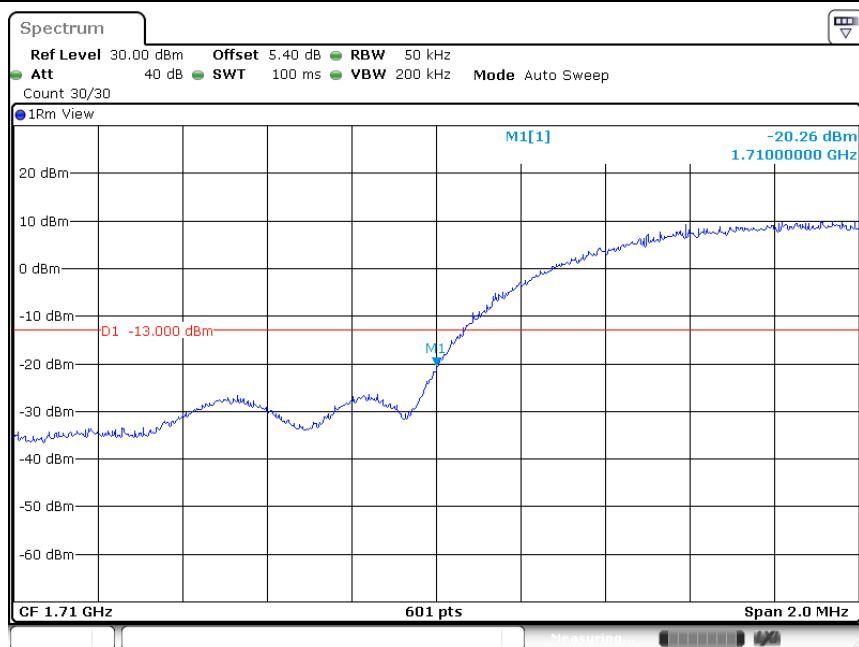
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## Band2-9538



Date: 28 JAN 2021 19:20:19

## Band4-1312



Date: 28 JAN 2021 19:54:43

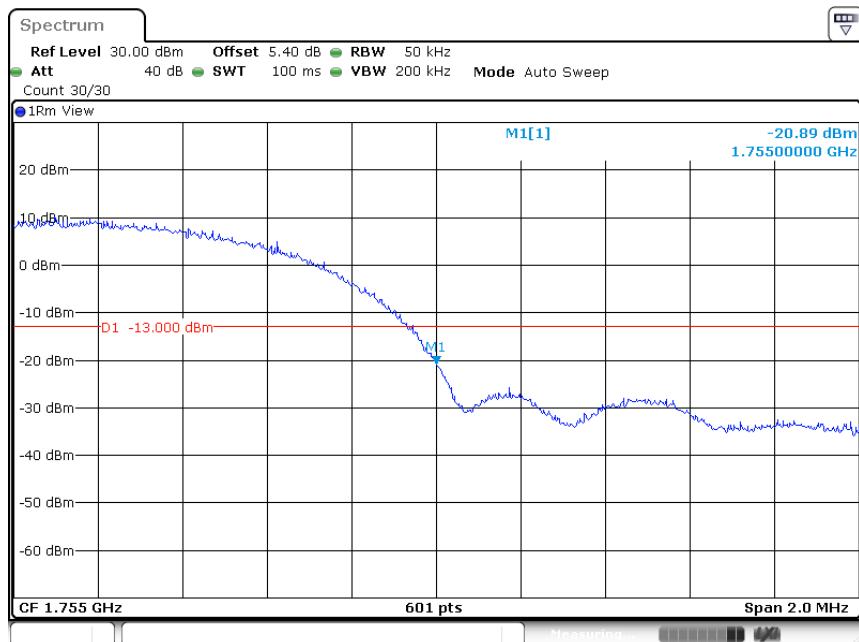
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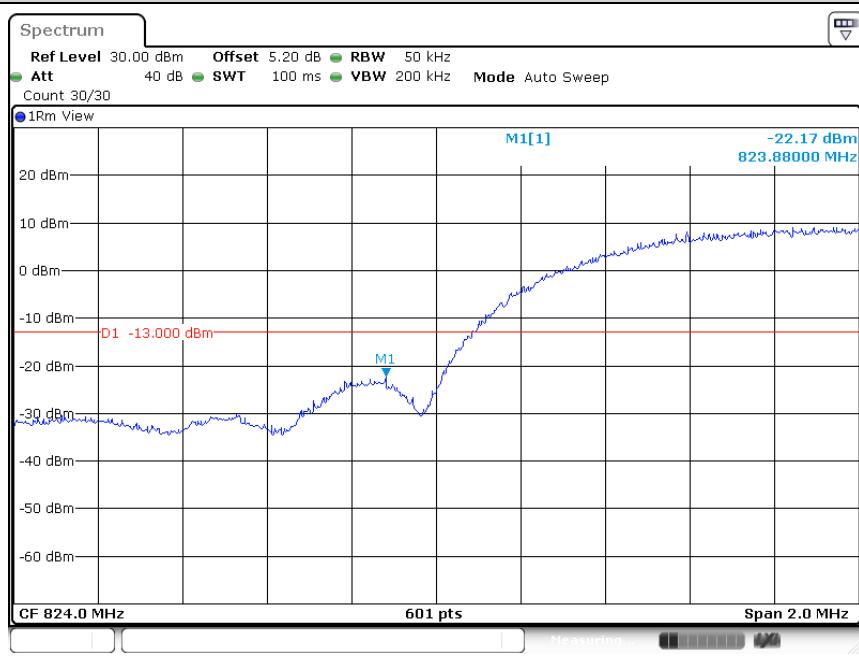


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## Band4-1513



## Band5-4132

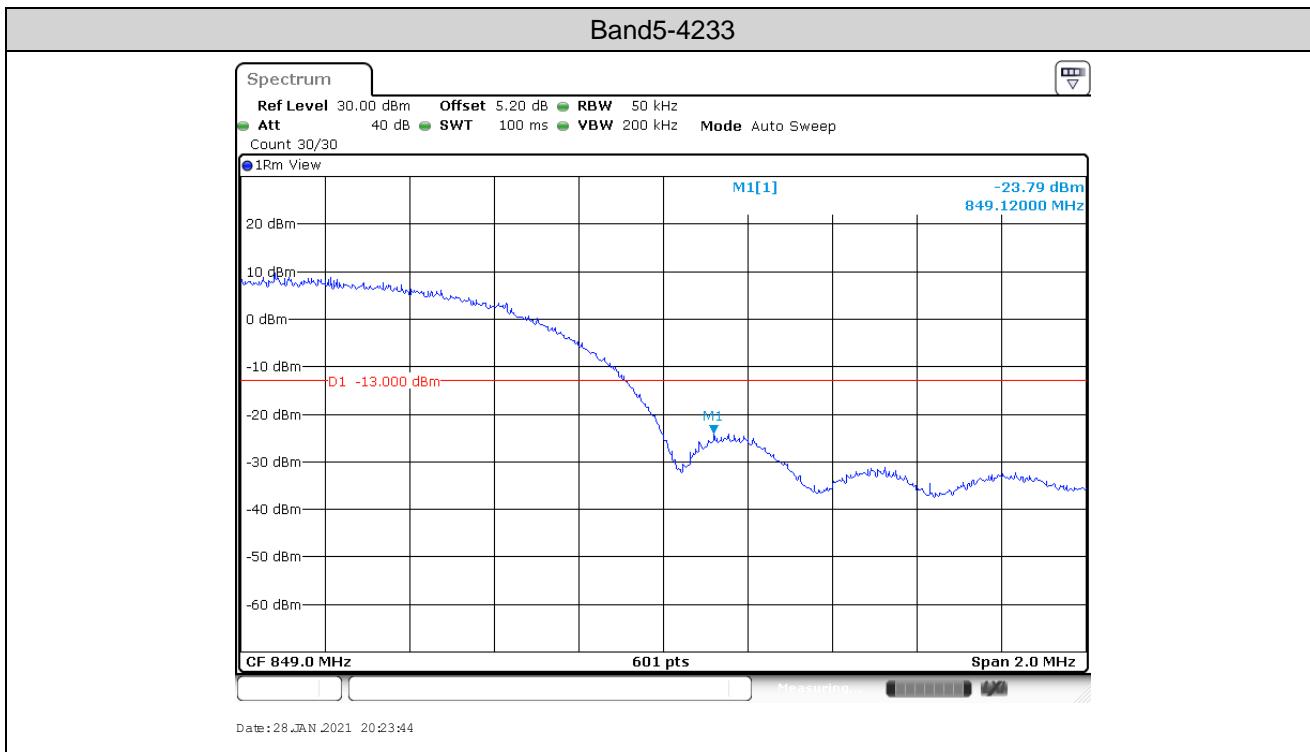


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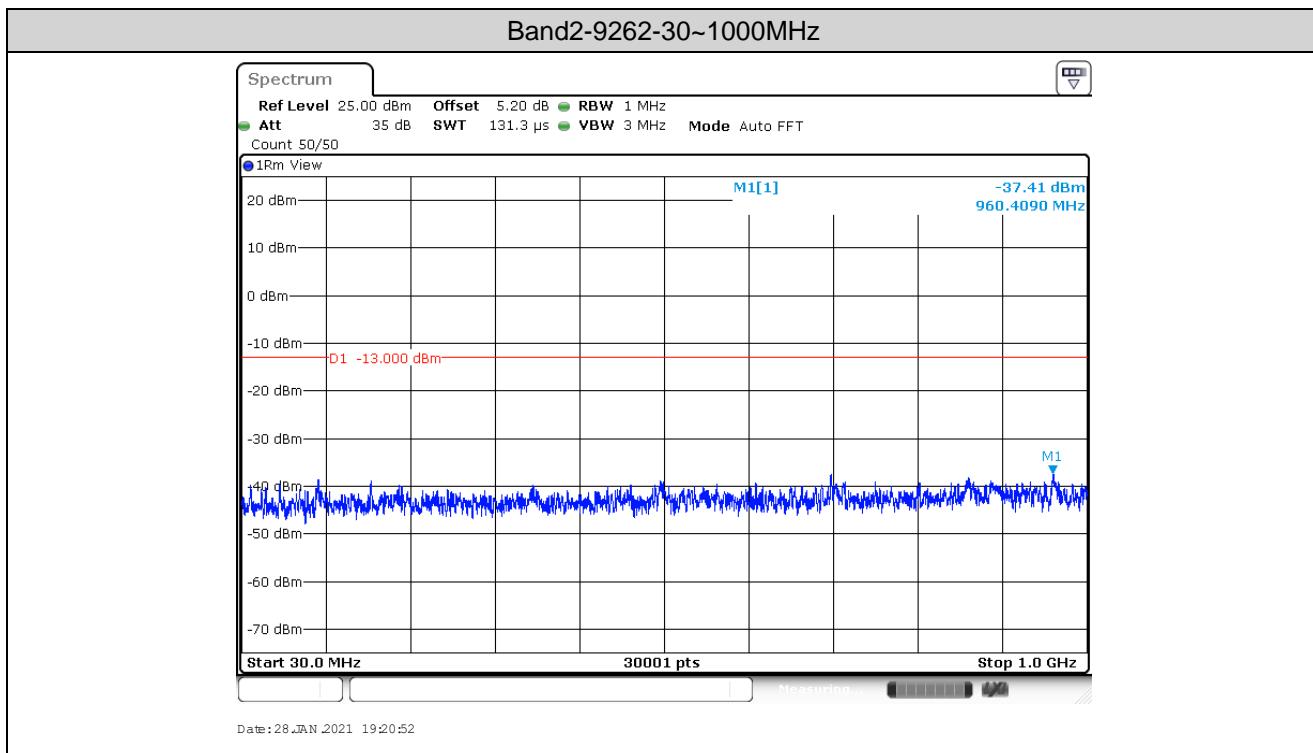
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## 6. Spurious Emission at Antenna Terminal

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  $< \text{RBW}/2$  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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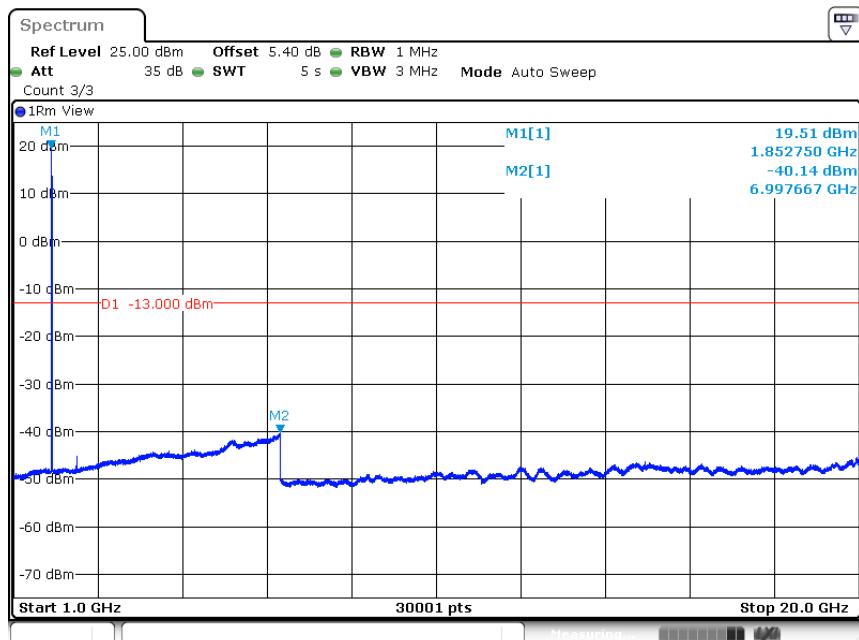
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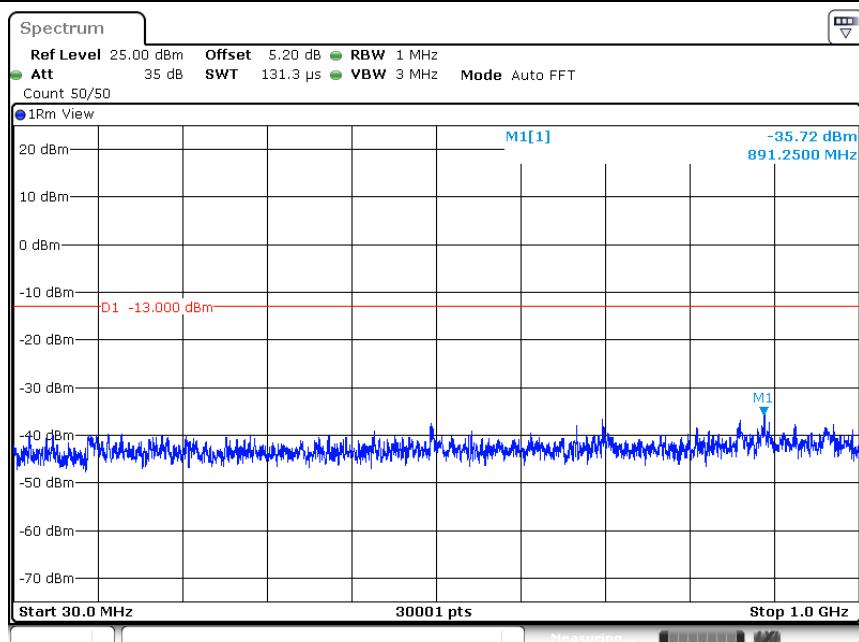
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## Band2-9262-1000~20000MHz



Date: 28 JAN 2021 19:21:18

## Band2-9400-30~1000MHz



Date: 28 JAN 2021 19:21:33

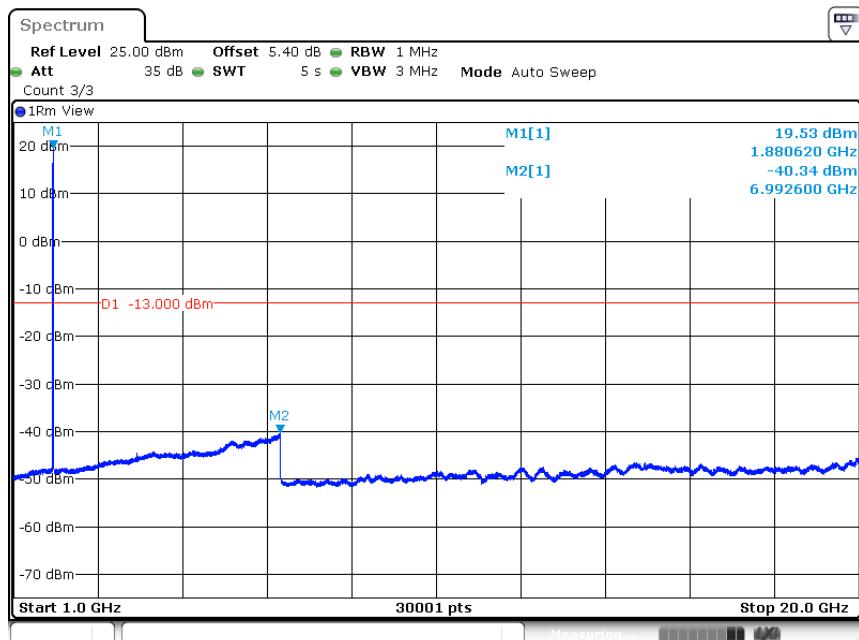
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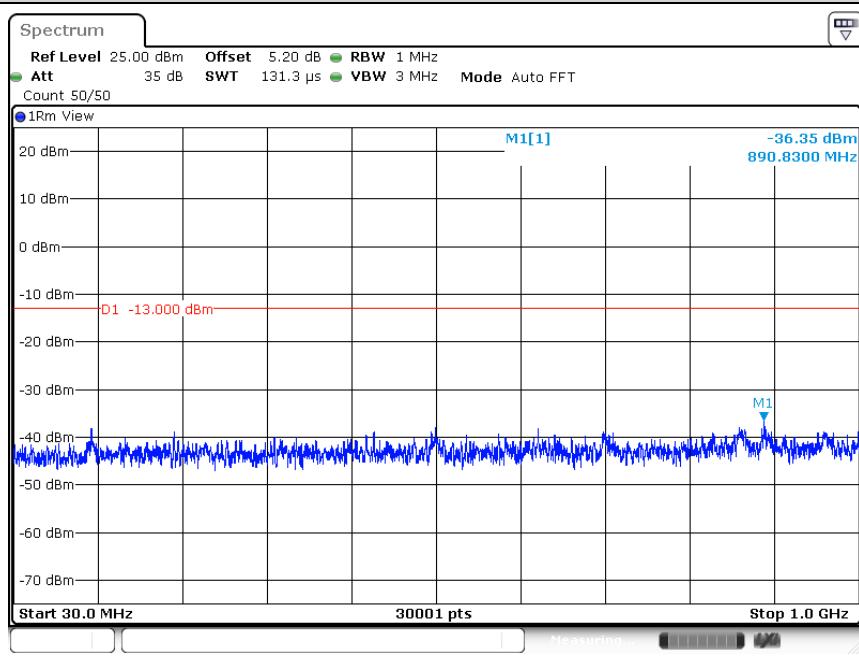


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## Band2-9400-1000~20000MHz



## Band2-9538-30~1000MHz

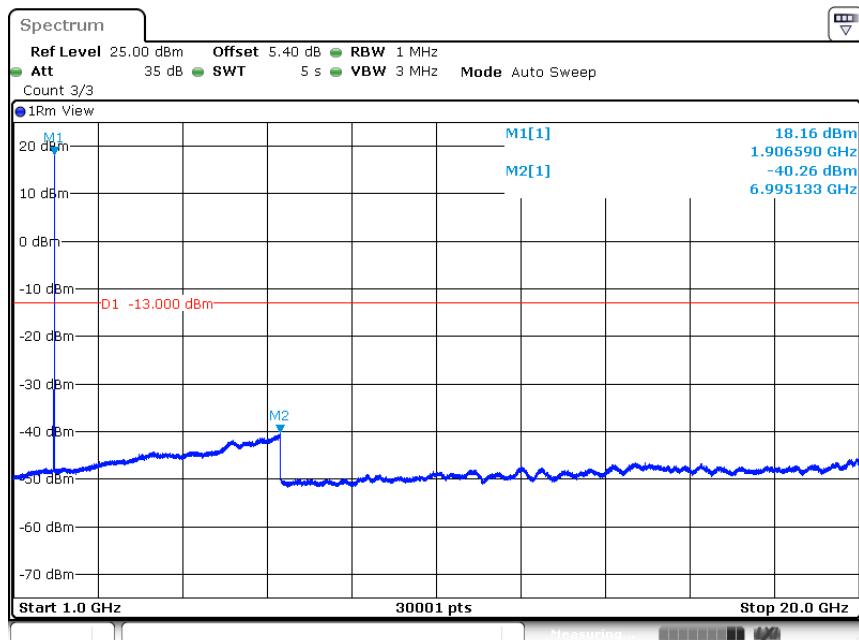


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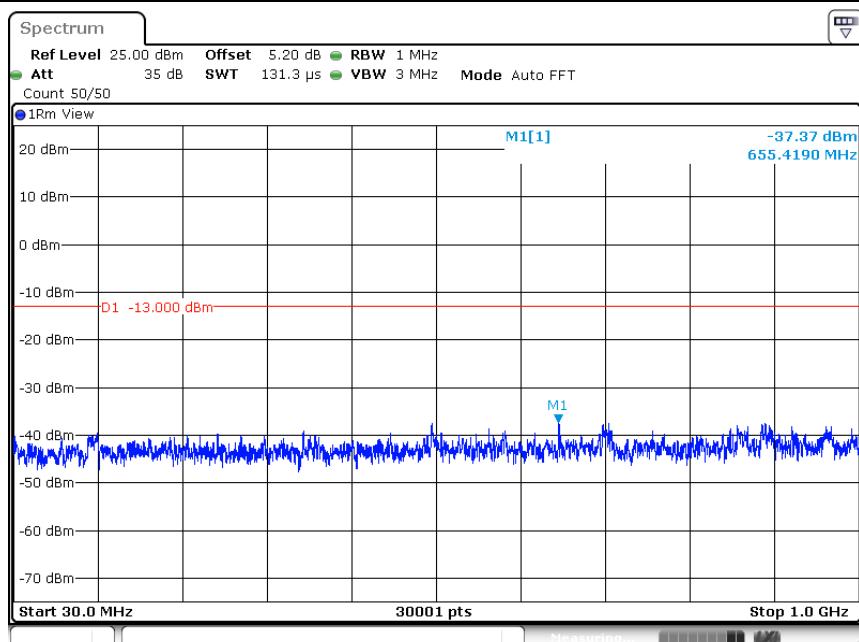


## Band2-9538-1000~20000MHz



Date: 28 JAN 2021 19:22:41

## Band4-1312-30~1000MHz



Date: 28 JAN 2021 19:55:32

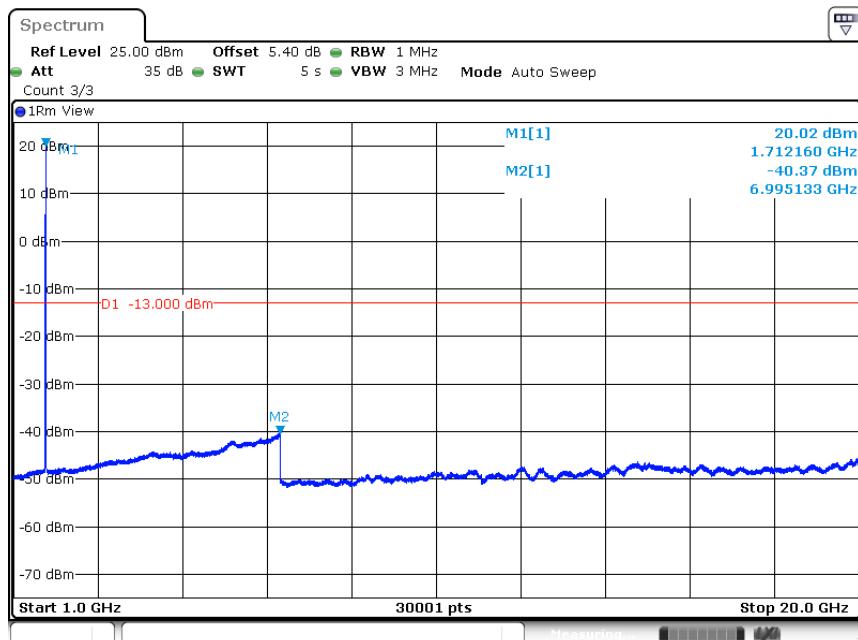
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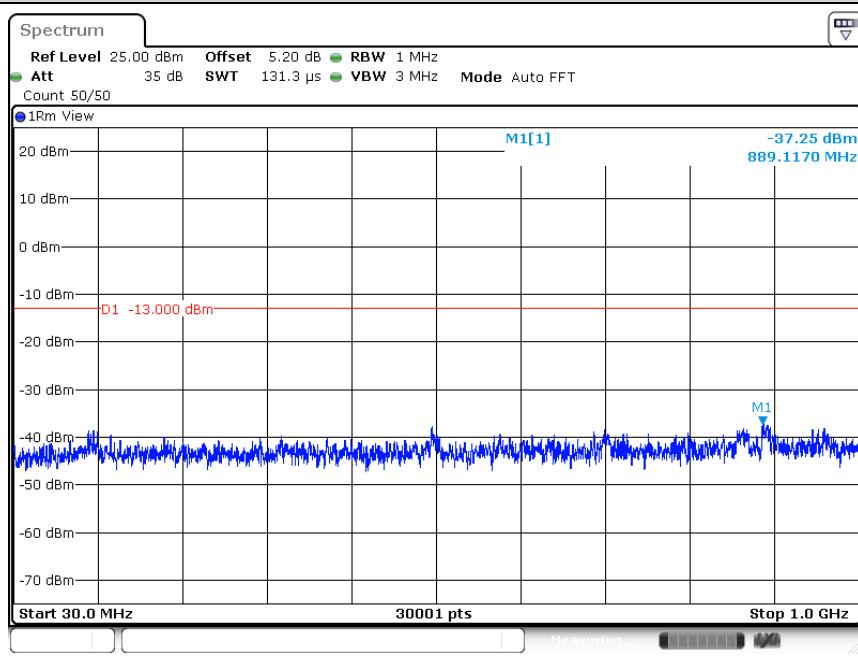


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## Band4-1312-1000~20000MHz



## Band4-1413-30~1000MHz

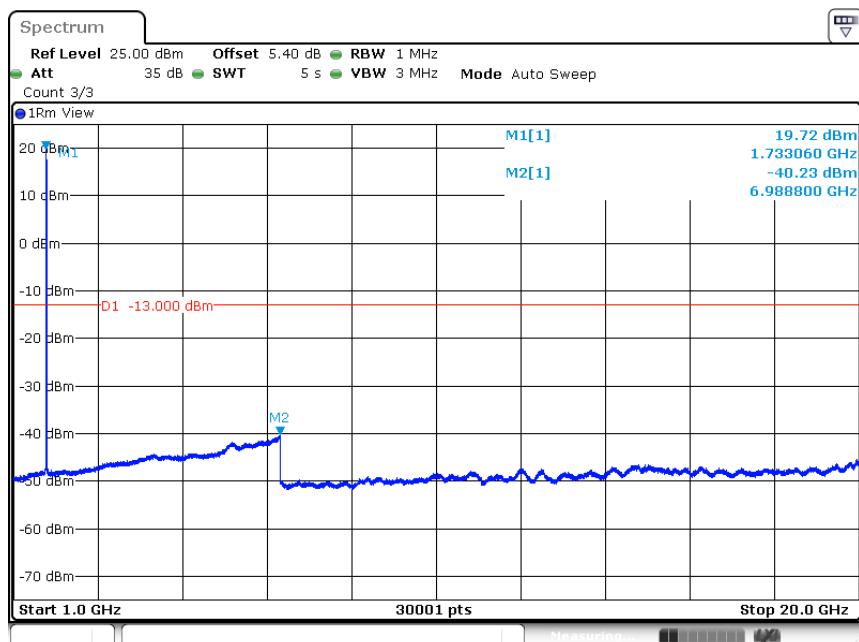


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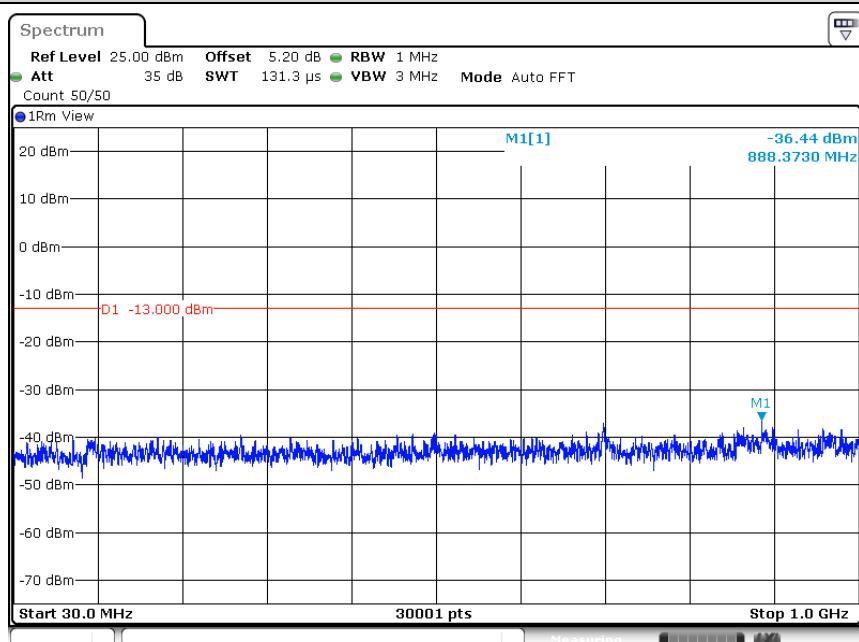


## Band4-1413-1000~20000MHz



Date: 28 JAN 2021 19:57:48

## Band4-1513-30~1000MHz



Date: 28 JAN 2021 19:58:04

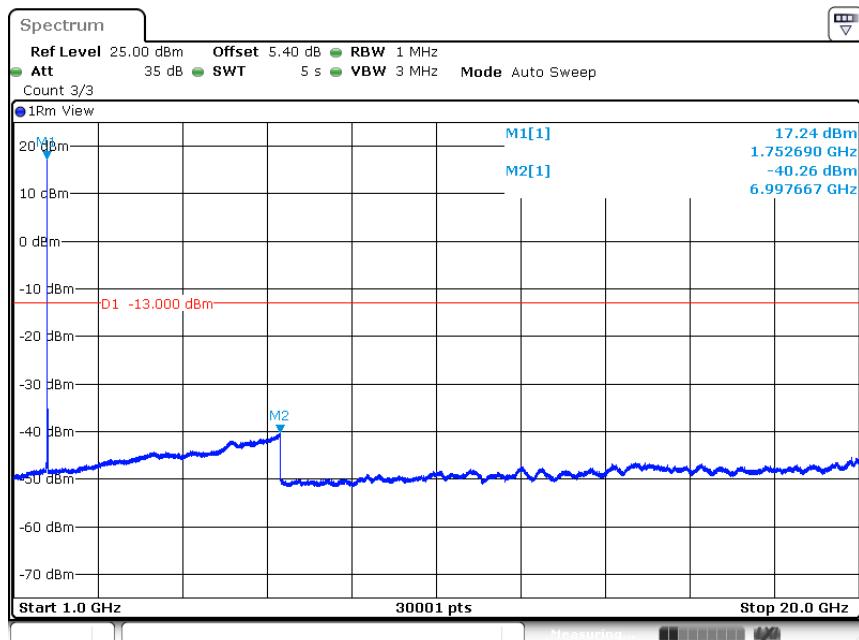
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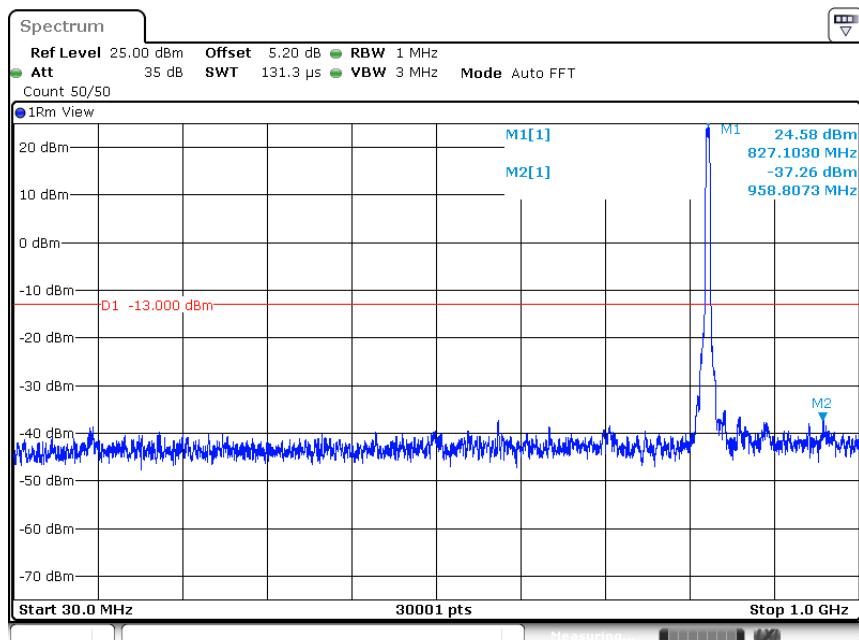
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## Band4-1513-1000~20000MHz



Date: 28 JAN 2021 19:58:30

## Band5-4132-30~1000MHz



Date: 28 JAN 2021 20:24:03

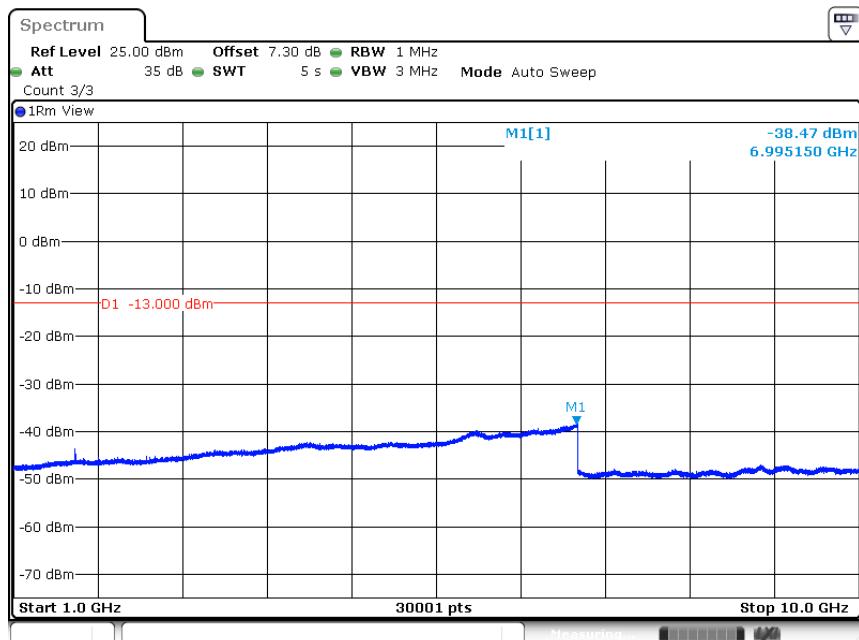
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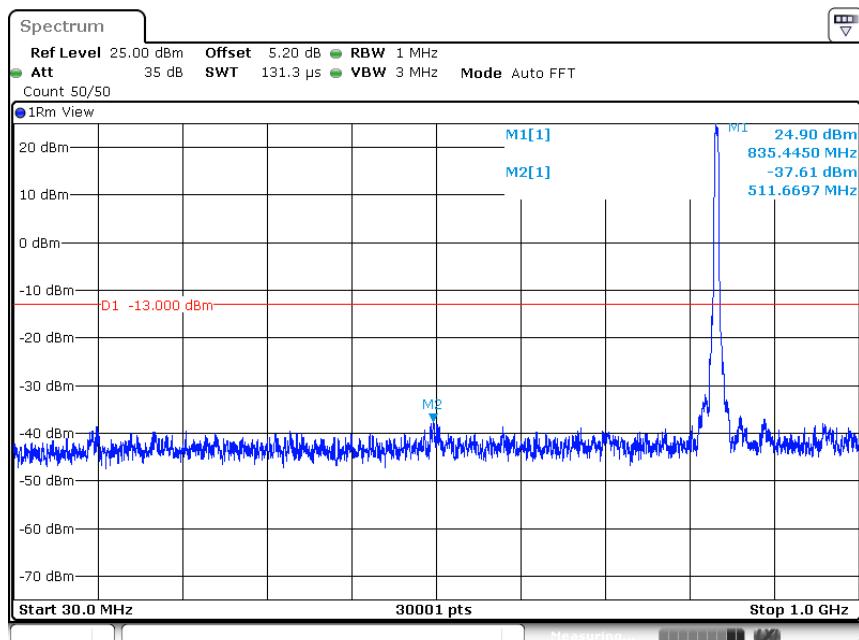
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## Band5-4132-1000~10000MHz



Date: 28 JAN 2021 20:24:27

## Band5-4182-30~1000MHz



Date: 28 JAN 2021 20:26:28

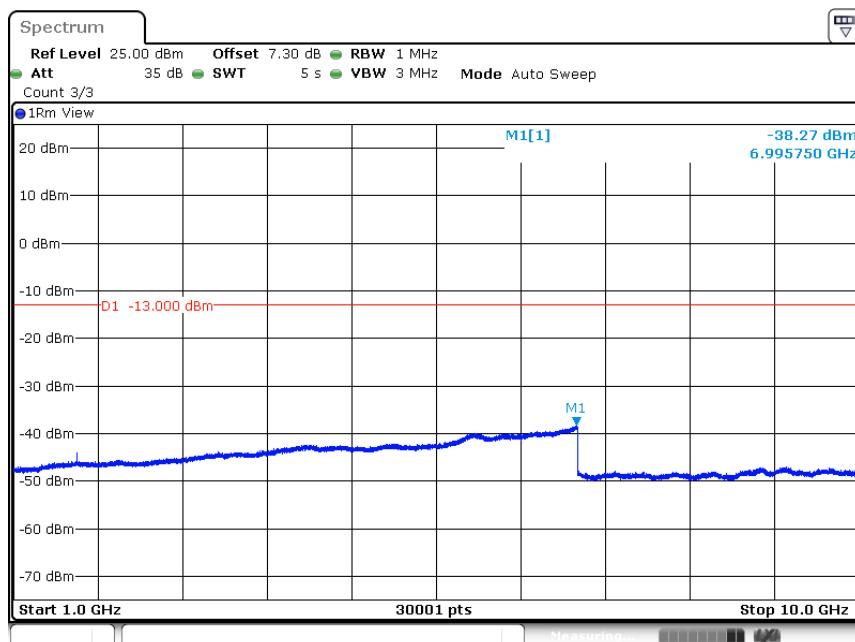
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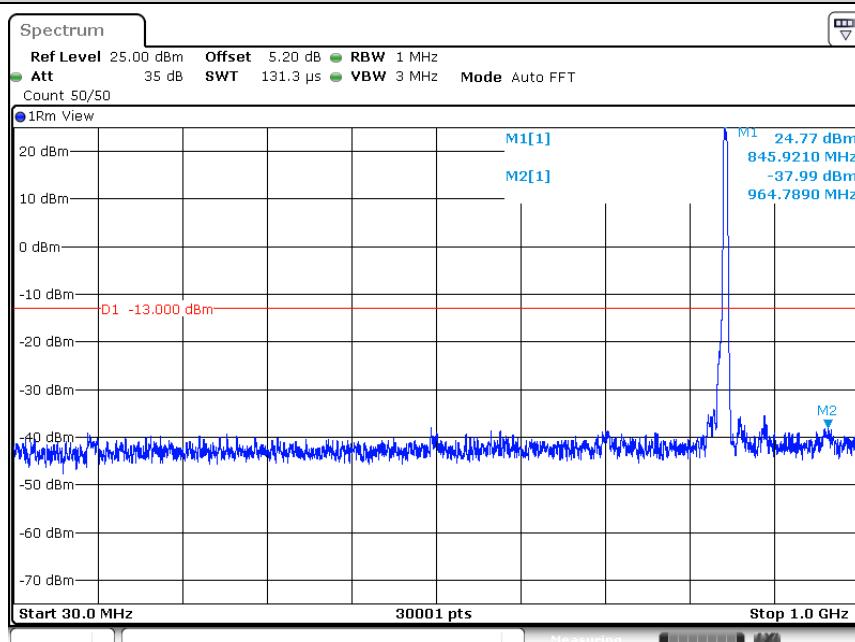
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## Band5-4182-1000~10000MHz



Date: 28 JAN 2021 20:26:53

## Band5-4233-30~1000MHz



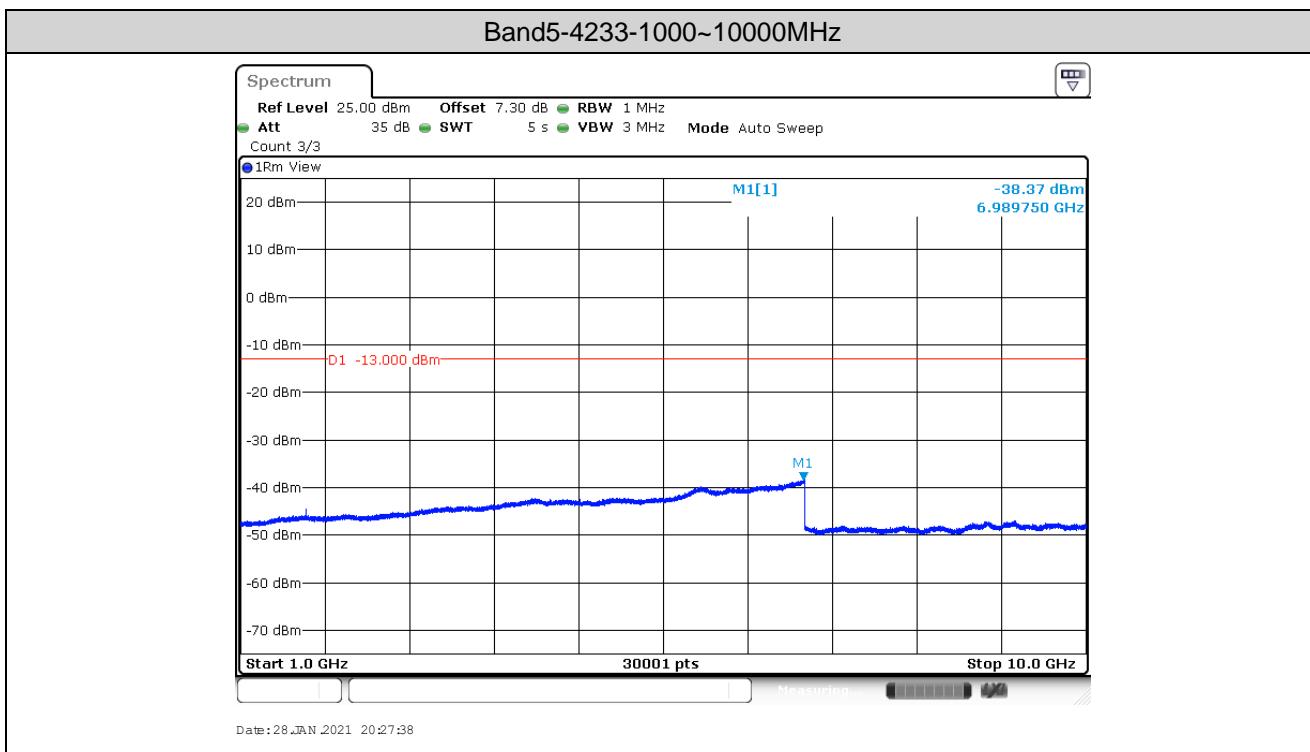
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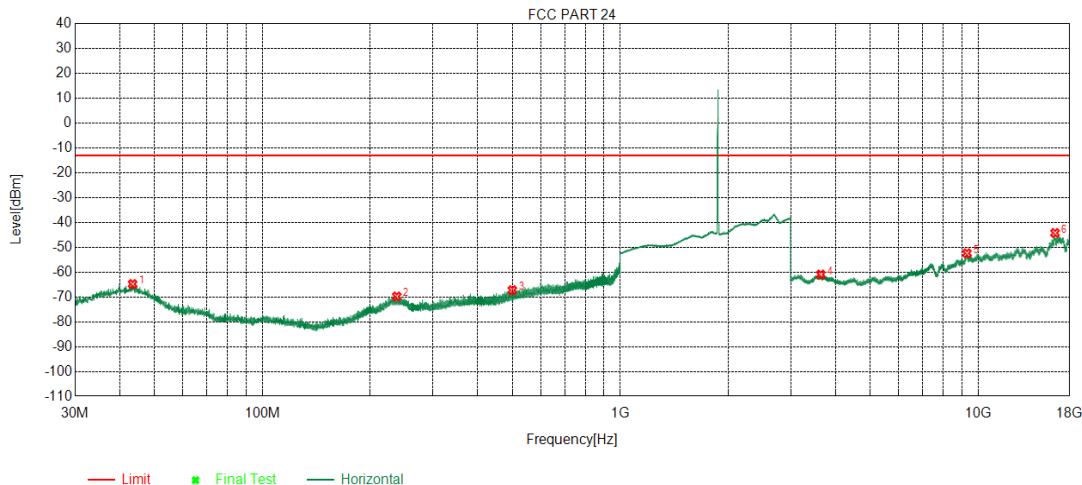
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## 7. Field Strength of Spurious Radiation

### 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]	Height [cm]	Angle [°]	Polarity
1	43.4352	-71.72	-64.78	-13.00	51.78	182	251	Horizontal
2	237.5904	-72.59	-69.79	-13.00	56.79	125	301	Horizontal
3	499.6490	-72.51	-67.27	-13.00	54.27	138	350	Horizontal
4	3635.0212	-52.70	-60.95	-13.00	47.95	176	128	Horizontal
5	9306.7102	-58.26	-52.38	-13.00	39.38	252	128	Horizontal
6	16398.446	-58.62	-44.20	-13.00	31.20	239	128	Horizontal

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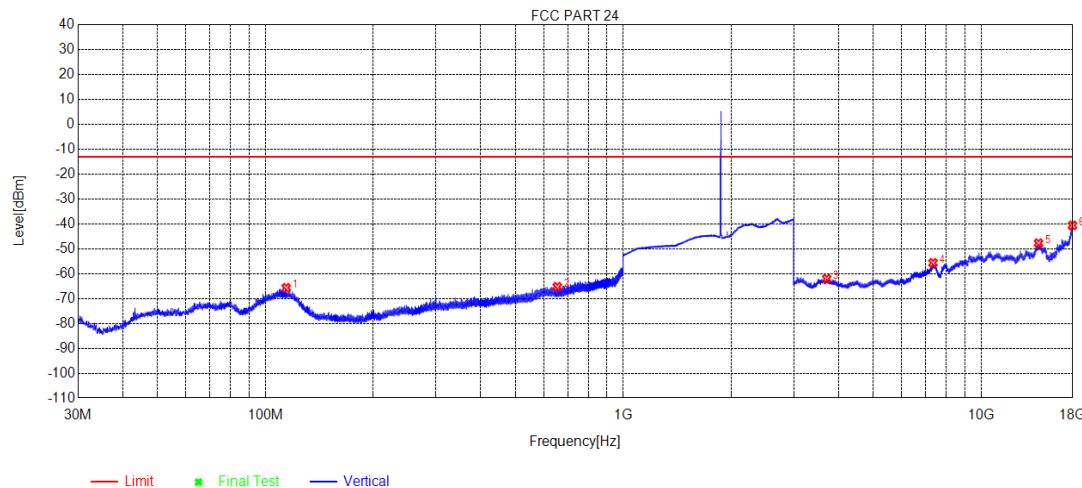
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## 7.2. Test Band = WCDMA\_II\_TM1 DOWN ANT

### 7.2.1. Test Channel = Mid Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	114.3942	-71.72	-65.70	-13.00	52.70	176	53	Vertical
2	654.6142	-72.81	-65.27	-13.00	52.27	133	128	Vertical
3	3703.5235	-52.70	-62.05	-13.00	49.05	152	4	Vertical
4	7338.1446	-56.17	-55.67	-13.00	42.67	296	277	Vertical
5	14467.382	-59.99	-47.74	-13.00	34.74	211	228	Vertical
6	17995.999	-58.38	-40.60	-13.00	27.60	258	29	Vertical

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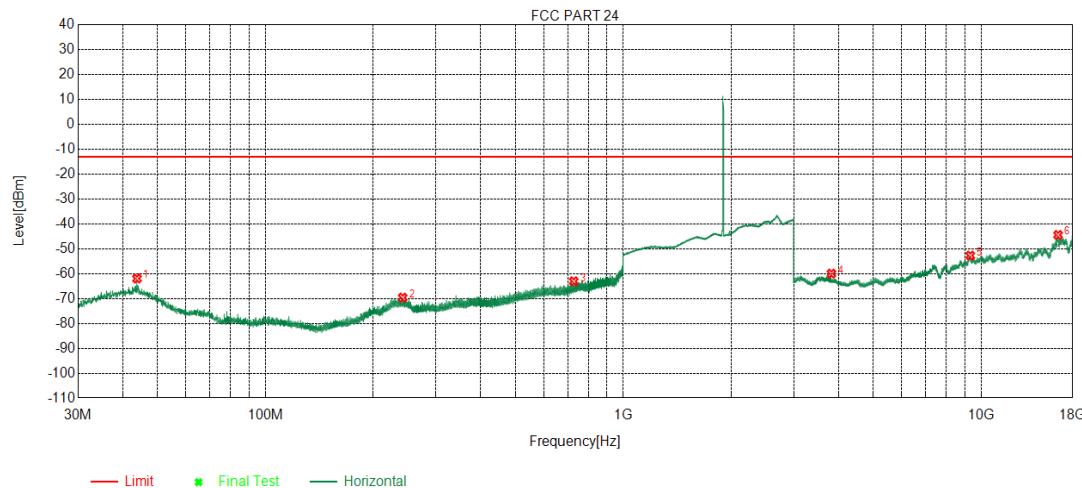
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### 7.3. Test Band = WCDMA\_II\_TM1 DOWN ANT

#### 7.3.1. Test Channel = High Channel

##### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.8232	-68.90	-61.94	-13.00	48.94	118	202	Horizontal
2	242.1011	-72.35	-69.61	-13.00	56.61	123	354	Horizontal
3	727.6104	-72.28	-63.05	-13.00	50.05	285	254	Horizontal
4	3816.5272	-51.72	-59.96	-13.00	46.96	269	202	Horizontal
5	9327.2109	-58.39	-52.71	-13.00	39.71	211	79	Horizontal
6	16402.946	-58.79	-44.42	-13.00	31.42	284	254	Horizontal

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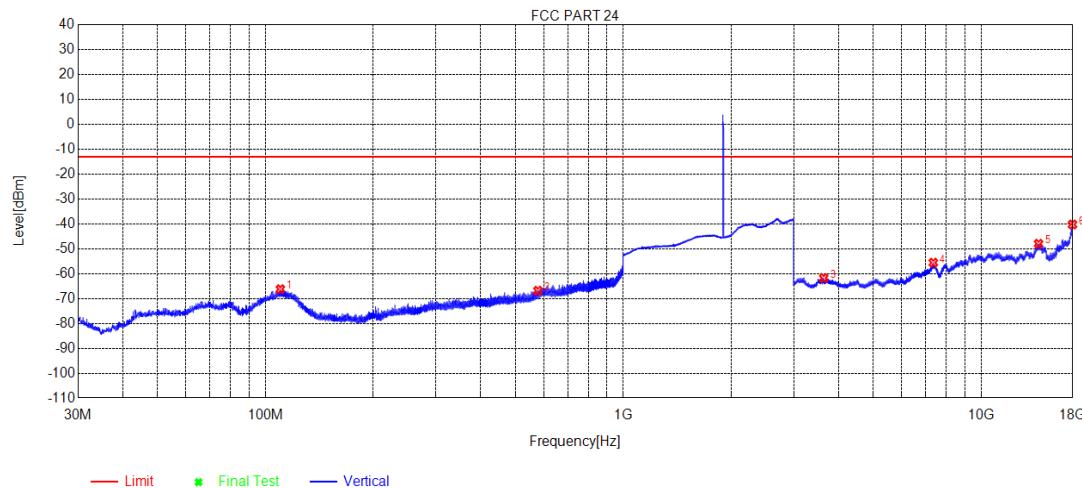
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## 7.4. Test Band = WCDMA\_II\_TM1 DOWN ANT

### 7.4.1. Test Channel = High Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.2230	-72.62	-66.23	-13.00	53.23	166	302	Vertical
2	577.7379	-73.37	-66.83	-13.00	53.83	137	327	Vertical
3	3633.5211	-52.58	-61.76	-13.00	48.76	252	129	Vertical
4	7350.1450	-56.08	-55.56	-13.00	42.56	277	54	Vertical
5	14466.882	-60.19	-47.95	-13.00	34.95	186	228	Vertical
6	17997.499	-58.04	-40.22	-13.00	27.22	296	79	Vertical

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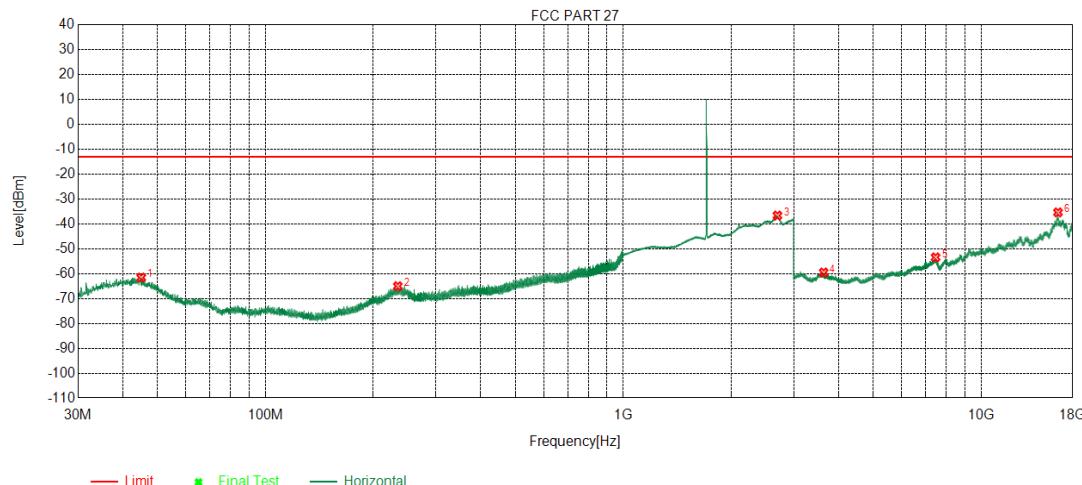
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## 7.5. Test Band = WCDMA\_IV\_TM1 DOWN ANT

### 7.5.1. Test Channel = Low Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.0358	-68.56	-61.56	-13.00	48.56	177	99	Horizontal
2	234.6317	-67.83	-65.02	-13.00	52.02	125	163	Horizontal
3	2697.5395	-69.46	-36.60	-13.00	23.60	236	210	Horizontal
4	3631.0210	-51.28	-59.51	-13.00	46.51	289	163	Horizontal
5	7461.1487	-53.42	-53.44	-13.00	40.44	212	322	Horizontal
6	16397.946	-49.76	-35.35	-13.00	22.35	237	227	Horizontal

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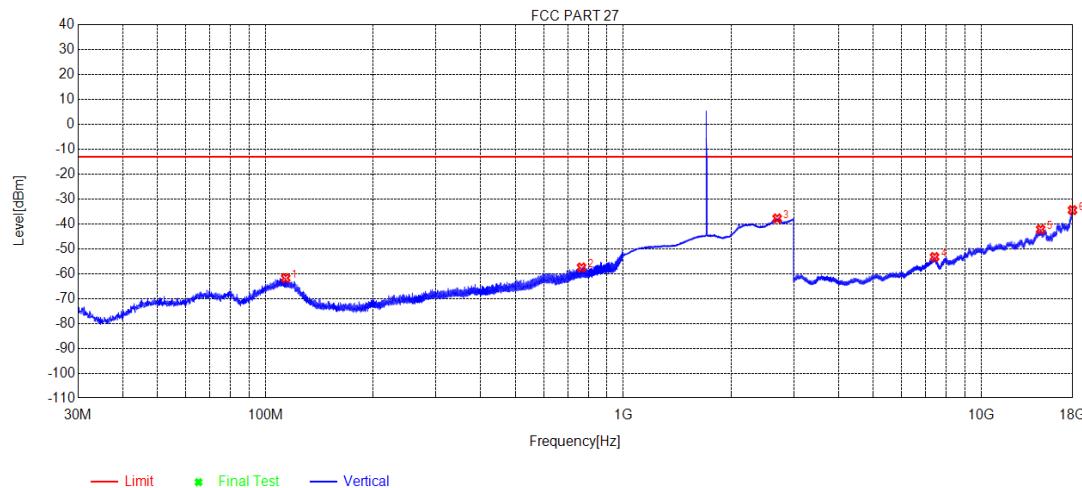
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## 7.6. Test Band = WCDMA\_IV\_TM1 DOWN ANT

### 7.6.1. Test Channel = Low Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	114.0547	-67.82	-61.77	-13.00	48.77	168	67	Vertical
2	764.9087	-67.14	-57.48	-13.00	44.48	145	226	Vertical
3	2692.7385	-69.29	-37.76	-13.00	24.76	225	130	Vertical
4	7410.1470	-53.79	-53.28	-13.00	40.28	296	194	Vertical
5	14669.889	-54.16	-42.17	-13.00	29.17	263	258	Vertical
6	17997.499	-52.26	-34.44	-13.00	21.44	175	354	Vertical

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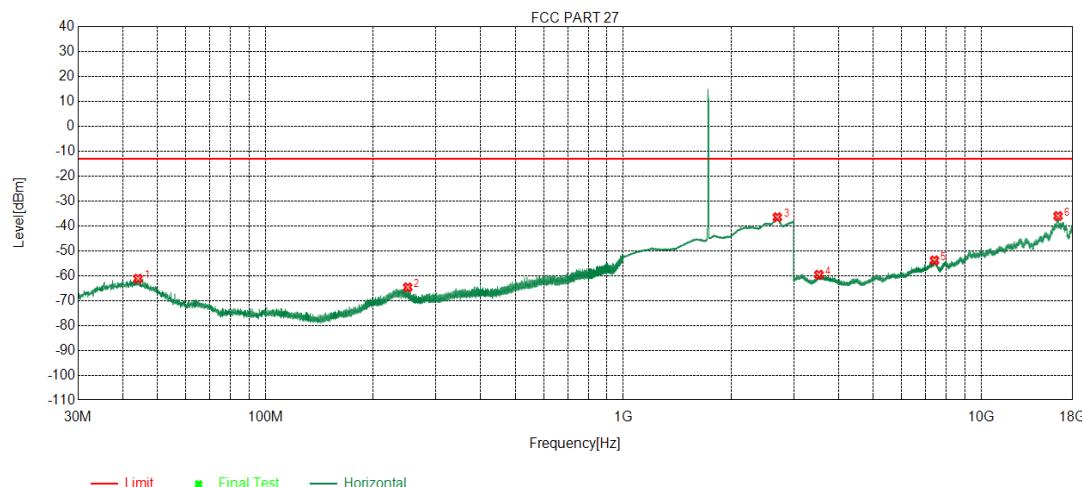
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## 7.7. Test Band = WCDMA\_IV\_TM1 DOWN ANT

### 7.7.1. Test Channel = Mid Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.1142	-68.17	-61.20	-13.00	48.20	187	99	Horizontal
2	250.1040	-67.23	-64.68	-13.00	51.68	172	259	Horizontal
3	2695.9392	-69.30	-36.49	-13.00	23.49	262	343	Horizontal
4	3522.0174	-50.89	-59.64	-13.00	46.64	234	355	Horizontal
5	7408.1469	-53.77	-53.83	-13.00	40.83	245	163	Horizontal
6	16401.946	-50.40	-36.00	-13.00	23.00	217	67	Horizontal

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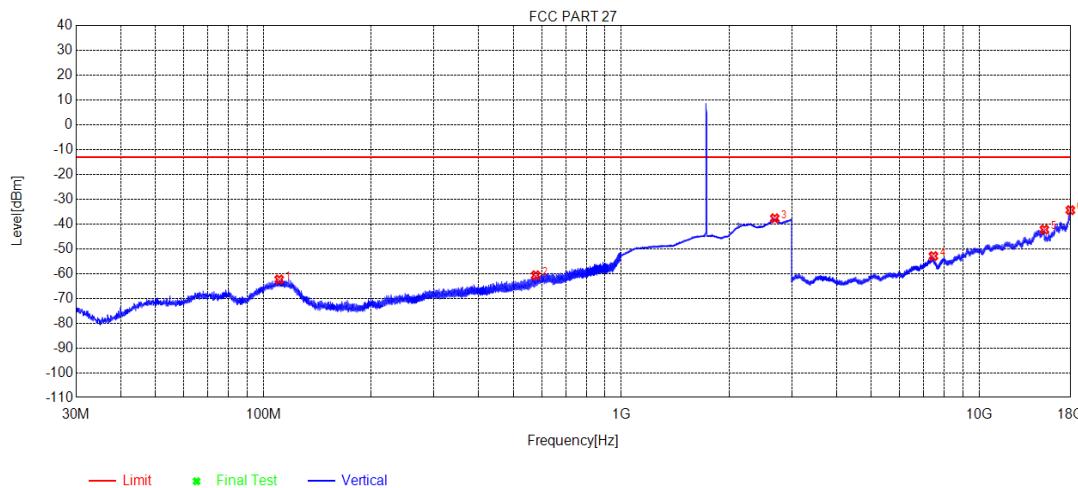
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## 7.8. Test Band = WCDMA\_IV\_TM1 DOWN ANT

### 7.8.1. Test Channel = Mid Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.8050	-68.70	-62.36	-13.00	49.36	152	163	Vertical
2	577.1559	-67.18	-60.67	-13.00	47.67	166	35	Vertical
3	2685.9372	-69.06	-37.66	-13.00	24.66	173	53	Vertical
4	7453.6485	-53.23	-52.93	-13.00	39.93	245	227	Vertical
5	15216.407	-53.02	-42.21	-13.00	29.21	287	195	Vertical
6	17984.499	-51.88	-34.39	-13.00	21.39	255	35	Vertical



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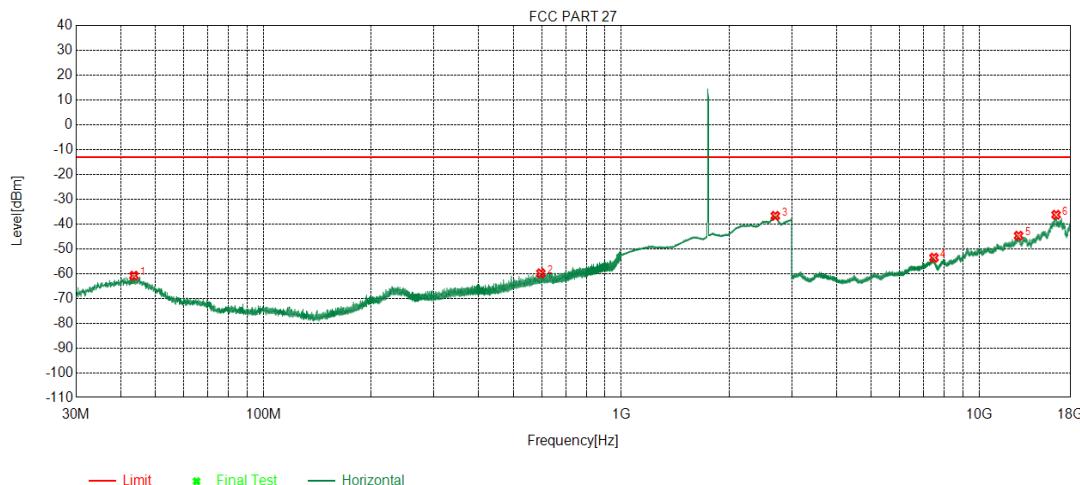
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## 7.9. Test Band = WCDMA\_IV\_TM1 DOWN ANT

### 7.9.1. Test Channel = High Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.5322	-67.77	-60.83	-13.00	47.83	169	322	Horizontal
2	596.5083	-67.42	-59.87	-13.00	46.87	264	35	Horizontal
3	2695.9392	-69.49	-36.68	-13.00	23.68	138	246	Horizontal
4	7479.6493	-53.56	-53.57	-13.00	40.57	176	258	Horizontal
5	12891.829	-54.36	-44.69	-13.00	31.69	252	195	Horizontal
6	16407.446	-50.52	-36.26	-13.00	23.26	284	322	Horizontal

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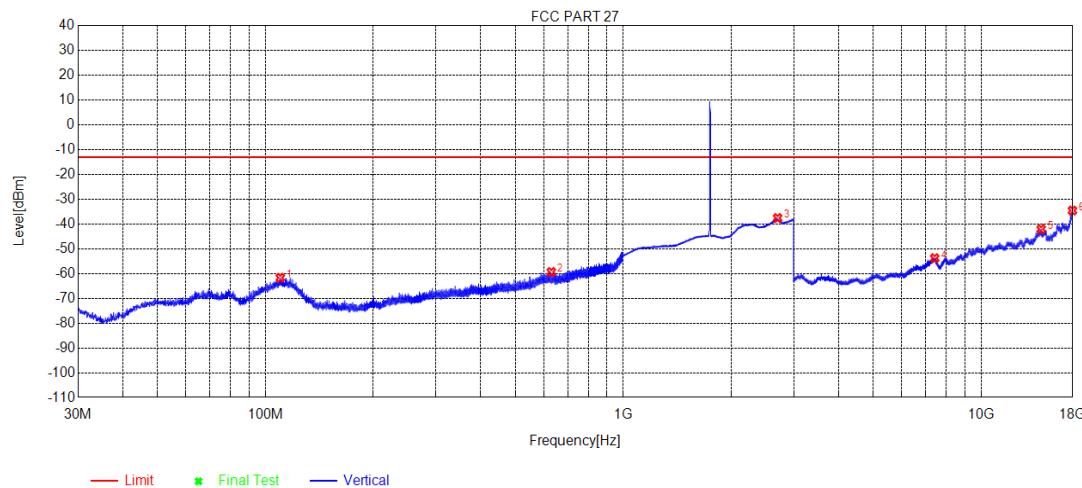
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## 7.10. Test Band = WCDMA\_IV\_TM1 DOWN ANT

### 7.10.1. Test Channel = High Channel

#### Test Graph



#### Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.1745	-68.08	-61.69	-13.00	48.69	163	354	Vertical
2	629.5870	-66.87	-59.33	-13.00	46.33	272	35	Vertical
3	2699.5399	-69.20	-37.54	-13.00	24.54	188	311	Vertical
4	7418.6473	-54.23	-53.76	-13.00	40.76	234	131	Vertical
5	14713.390	-54.13	-42.05	-13.00	29.05	294	227	Vertical
6	17989.999	-52.18	-34.55	-13.00	21.55	185	67	Vertical



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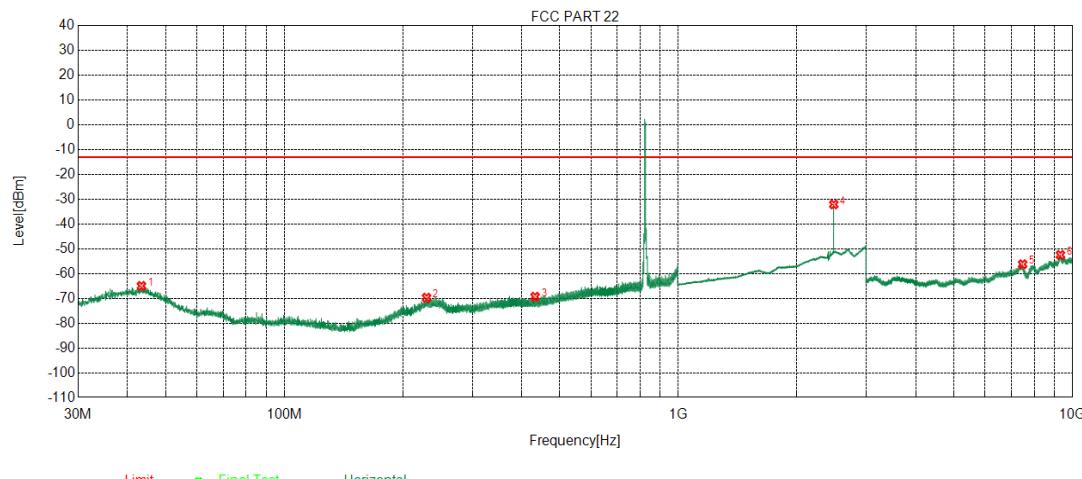
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## 7.11. Test Band = WCDMA\_V\_TM1 DOWN ANT

### 7.11.1. Test Channel = Low Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.4352	-71.90	-64.96	-13.00	51.96	277	131	Horizontal
2	229.7815	-72.51	-69.72	-13.00	56.72	253	301	Horizontal
3	433.0552	-72.43	-69.32	-13.00	56.32	214	36	Horizontal
4	2480.2961	-43.04	-32.07	-13.00	19.07	187	354	Horizontal
5	7473.6158	-56.20	-56.22	-13.00	43.22	199	360	Horizontal
6	9317.9439	-58.22	-52.45	-13.00	39.45	246	333	Horizontal

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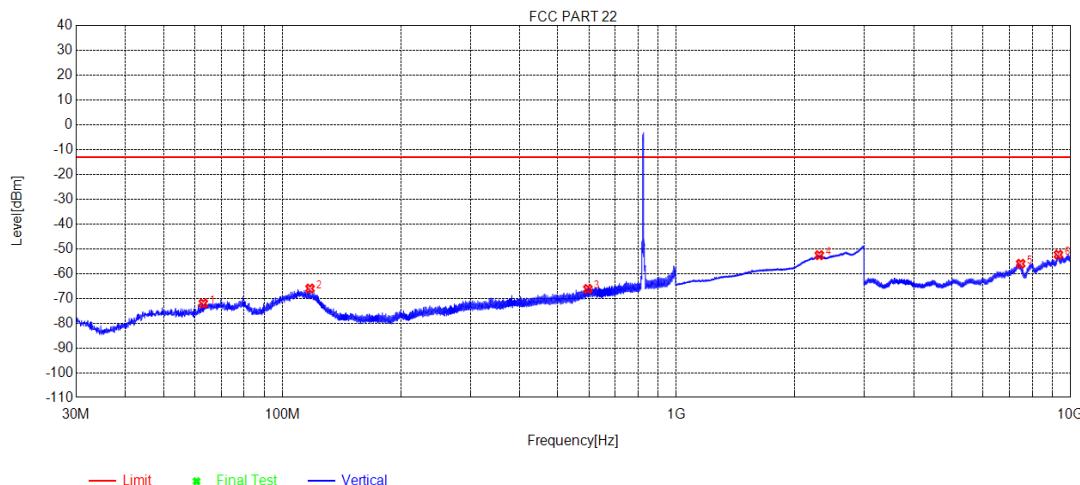
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## 7.12. Test Band = WCDMA\_V\_TM1 DOWN ANT

### 7.12.1. Test Channel = Low Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.0787	-72.36	-72.03	-13.00	59.03	178	132	Vertical
2	117.6439	-71.75	-66.01	-13.00	53.01	163	231	Vertical
3	596.6053	-73.67	-66.20	-13.00	53.20	145	359	Vertical
4	2305.4611	-62.75	-52.56	-13.00	39.56	268	291	Vertical
5	7478.0493	-56.21	-56.02	-13.00	43.02	211	163	Vertical
6	9319.3440	-58.27	-52.35	-13.00	39.35	284	100	Vertical

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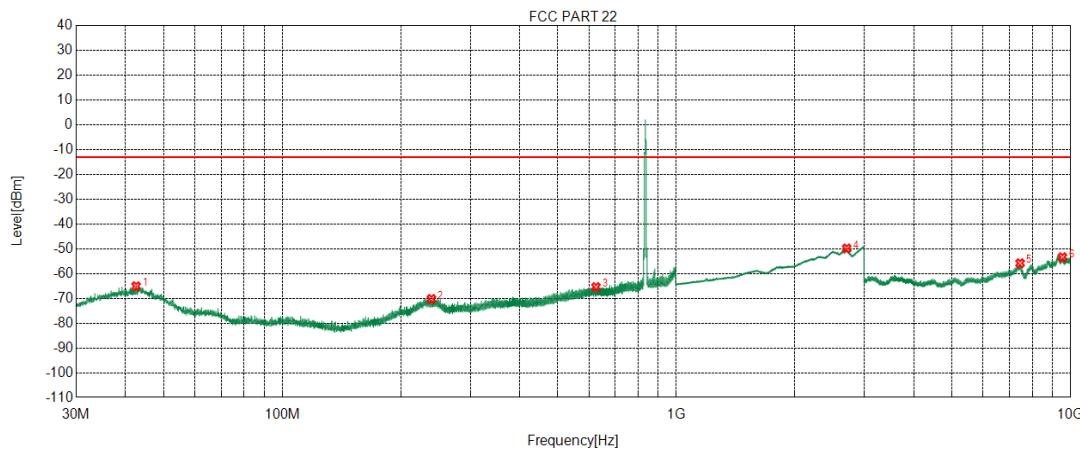
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## 7.13. Test Band = WCDMA\_V\_TM1 DOWN ANT

### 7.13.1. Test Channel = Mid Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.6106	-71.99	-65.09	-13.00	52.09	284	325	Horizontal
2	239.1425	-73.01	-70.22	-13.00	57.22	217	356	Horizontal
3	625.3673	-73.17	-65.41	-13.00	52.41	294	100	Horizontal
4	2705.9412	-62.60	-49.83	-13.00	36.83	185	71	Horizontal
5	7450.5150	-55.77	-55.80	-13.00	42.80	166	196	Horizontal
6	9540.7847	-58.41	-53.39	-13.00	40.39	137	262	Horizontal

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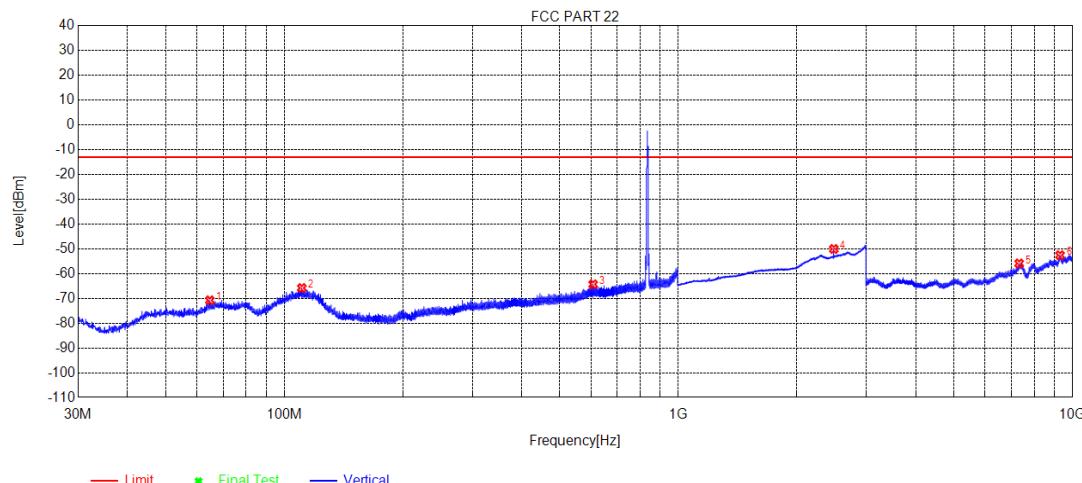
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## 7.14. Test Band = WCDMA\_V\_TM1 DOWN ANT

### 7.14.1. Test Channel = Mid Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	64.7762	-72.05	-70.79	-13.00	57.79	245	323	Vertical
2	110.8535	-72.15	-65.82	-13.00	52.82	127	323	Vertical
3	607.8094	-71.94	-64.33	-13.00	51.33	269	67	Vertical
4	2480.2961	-59.50	-50.06	-13.00	37.06	274	239	Vertical
5	7323.1108	-56.38	-55.89	-13.00	42.89	133	35	Vertical
6	9298.3433	-58.65	-52.57	-13.00	39.57	118	195	Vertical

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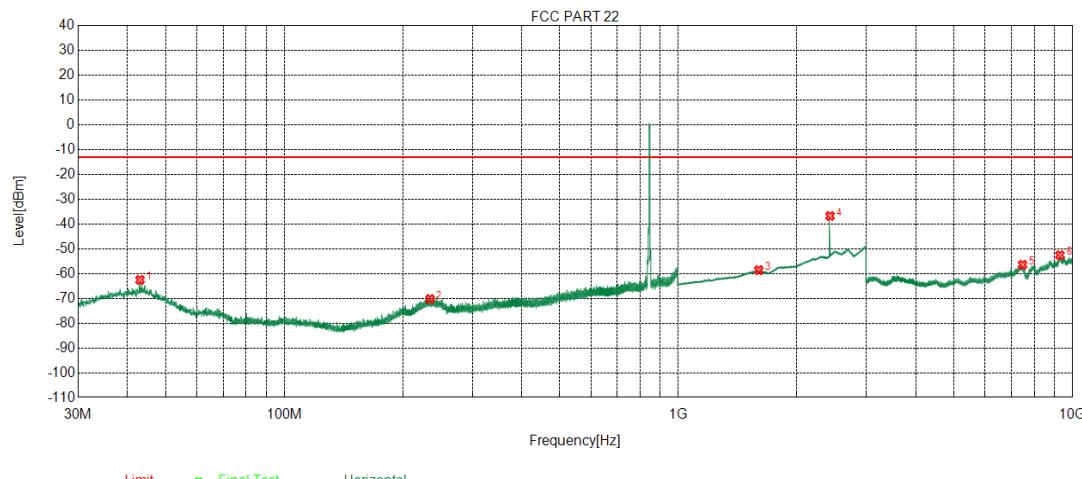
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## 7.15. Test Band = WCDMA\_V\_TM1 DOWN ANT

### 7.15.1. Test Channel = High Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.0957	-69.46	-62.54	-13.00	49.54	236	332	Horizontal
2	234.4862	-73.04	-70.23	-13.00	57.23	178	166	Horizontal
3	1600.1200	-63.13	-58.60	-13.00	45.60	284	21	Horizontal
4	2426.6853	-46.57	-36.74	-13.00	23.74	119	323	Horizontal
5	7469.6490	-56.42	-56.44	-13.00	43.44	264	238	Horizontal
6	9294.3765	-58.42	-52.56	-13.00	39.56	288	332	Horizontal

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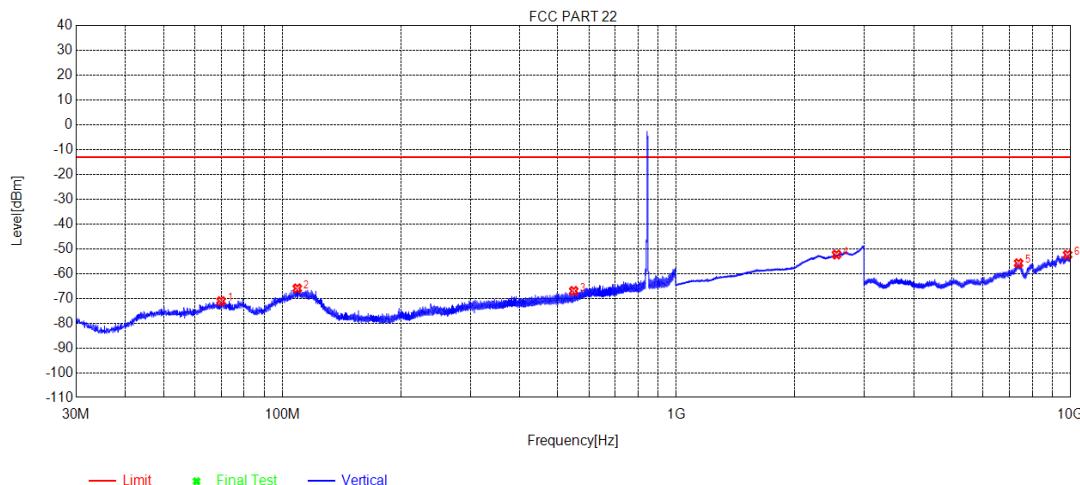
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## 7.16. Test Band = WCDMA\_V\_TM1 DOWN ANT

### 7.16.1. Test Channel = High Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	70.0145	-72.73	-71.13	-13.00	58.13	166	323	Vertical
2	109.2045	-72.18	-65.96	-13.00	52.96	173	4	Vertical
3	549.1215	-72.15	-66.99	-13.00	53.99	242	354	Vertical
4	2549.5099	-61.98	-52.30	-13.00	39.30	225	29	Vertical
5	7384.0128	-56.37	-55.82	-13.00	42.82	287	354	Vertical
6	9832.2277	-58.88	-52.39	-13.00	39.39	269	67	Vertical

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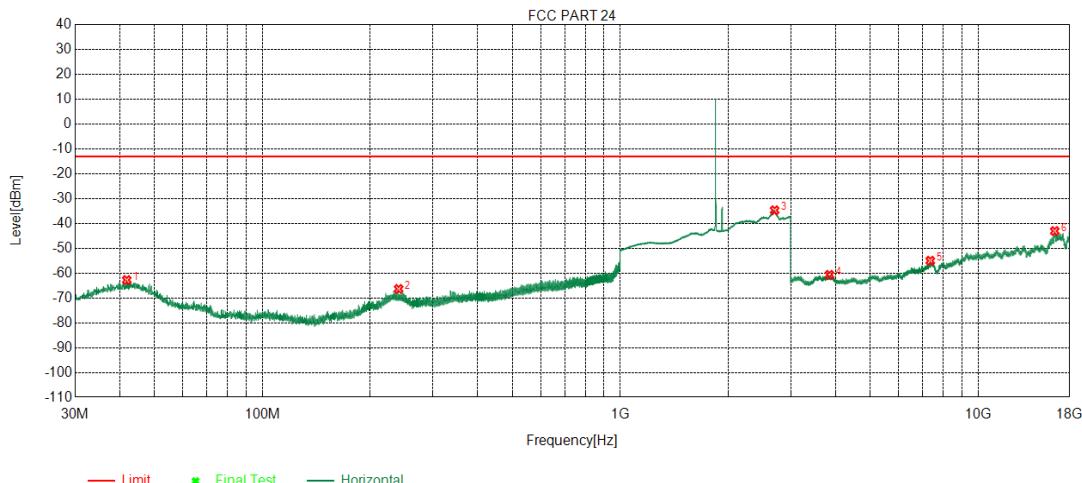
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## 7.17. Test Band = WCDMA\_II\_TM1 UP ANT

## 7.17.1. Test Channel = Low Channel

## Test Graph



## Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.8346	-69.62	-62.76	-13.00	49.76	152	243	Horizontal
2	240.4520	-69.14	-66.36	-13.00	53.36	188	205	Horizontal
3	2701.1402	-67.55	-34.66	-13.00	21.66	169	356	Horizontal
4	3843.0281	-52.51	-60.68	-13.00	47.68	242	120	Horizontal
5	7351.1450	-54.81	-54.99	-13.00	41.99	266	9	Horizontal
6	16371.945	-56.99	-43.04	-13.00	30.04	284	320	Horizontal

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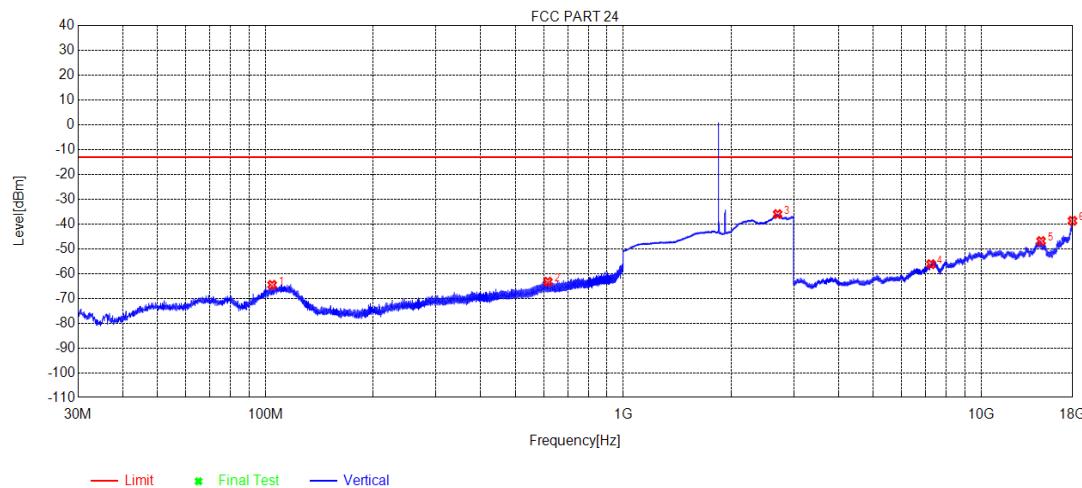
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## 7.18. Test Band = WCDMA\_II \_TM1 UP ANT

### 7.18.1. Test Channel = Low Channel

#### Test Graph



#### Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	104.5482	-69.68	-64.54	-13.00	51.54	266	322	Vertical
2	616.2003	-70.86	-63.28	-13.00	50.28	237	272	Vertical
3	2700.7401	-67.64	-35.98	-13.00	22.98	118	124	Vertical
4	7245.6415	-56.26	-56.18	-13.00	43.18	254	16	Vertical
5	14709.890	-58.95	-46.85	-13.00	33.85	118	196	Vertical
6	17999.500	-56.56	-38.69	-13.00	25.69	269	272	Vertical



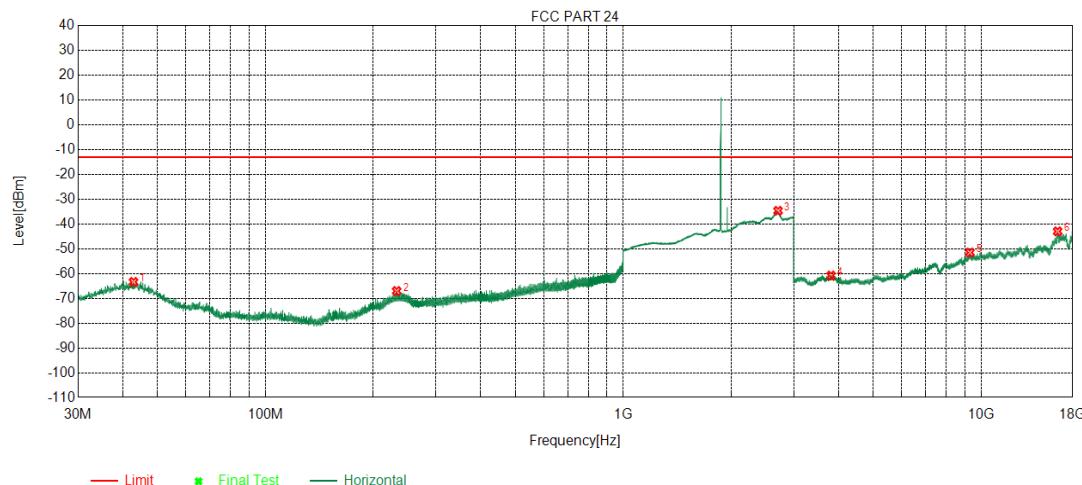
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## 7.19. Test Band = WCDMA\_II\_TM1 UP ANT

### 7.19.1. Test Channel = Mid Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.8531	-70.26	-63.35	-13.00	50.35	186	323	Horizontal
2	232.8856	-69.84	-67.02	-13.00	54.02	294	271	Horizontal
3	2707.9416	-67.31	-34.64	-13.00	21.64	252	18	Horizontal
4	3808.5270	-52.51	-60.77	-13.00	47.77	221	323	Horizontal
5	9303.7101	-57.40	-51.50	-13.00	38.50	262	244	Horizontal
6	16358.945	-56.65	-42.94	-13.00	29.94	284	297	Horizontal

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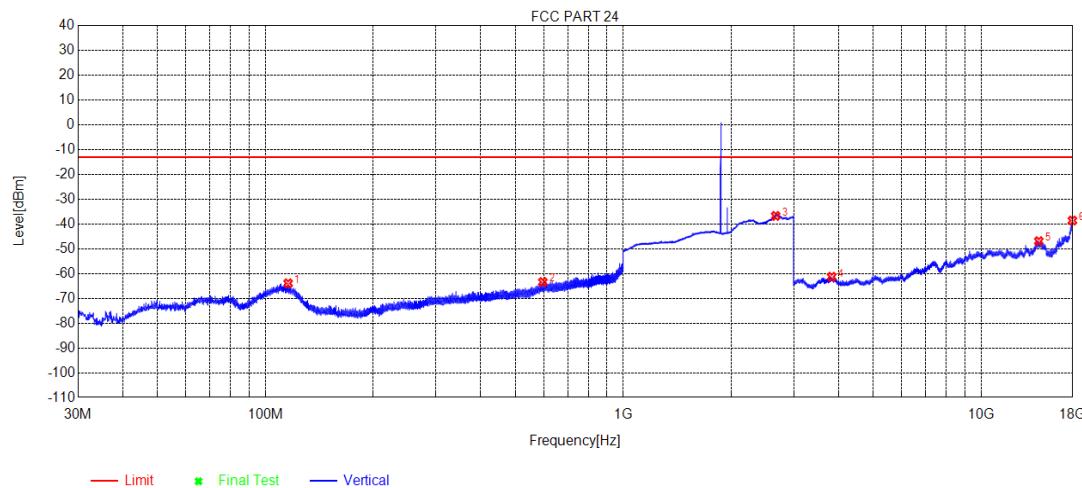
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## 7.20. Test Band = WCDMA\_II\_TM1 UP ANT

### 7.20.1. Test Channel = High Channel

#### Test Graph



#### Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	115.8493	-69.80	-63.90	-13.00	50.90	166	51	Vertical
2	596.3143	-70.85	-63.39	-13.00	50.39	243	83	Vertical
3	2667.1334	-67.74	-36.70	-13.00	23.70	284	118	Vertical
4	3823.5275	-52.47	-61.28	-13.00	48.28	211	107	Vertical
5	14493.883	-59.36	-46.90	-13.00	33.90	289	24	Vertical
6	17992.999	-56.28	-38.58	-13.00	25.58	246	324	Vertical



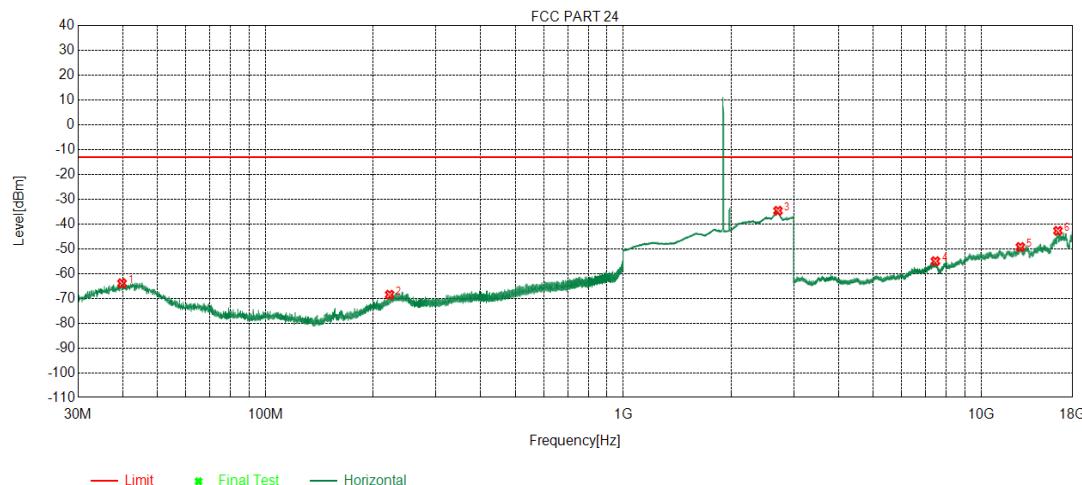
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## 7.21. Test Band = WCDMA\_II\_TM1 UP ANT

## 7.21.1. Test Channel = High Channel

## Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.7975	-70.58	-63.89	-13.00	50.89	188	90	Horizontal
2	222.6516	-70.02	-68.51	-13.00	55.51	266	268	Horizontal
3	2707.1414	-67.33	-34.63	-13.00	21.63	243	298	Horizontal
4	7452.6484	-54.95	-54.98	-13.00	41.98	221	22	Horizontal
5	12872.829	-58.82	-49.26	-13.00	36.26	269	22	Horizontal
6	16397.946	-57.13	-42.72	-13.00	29.72	186	119	Horizontal



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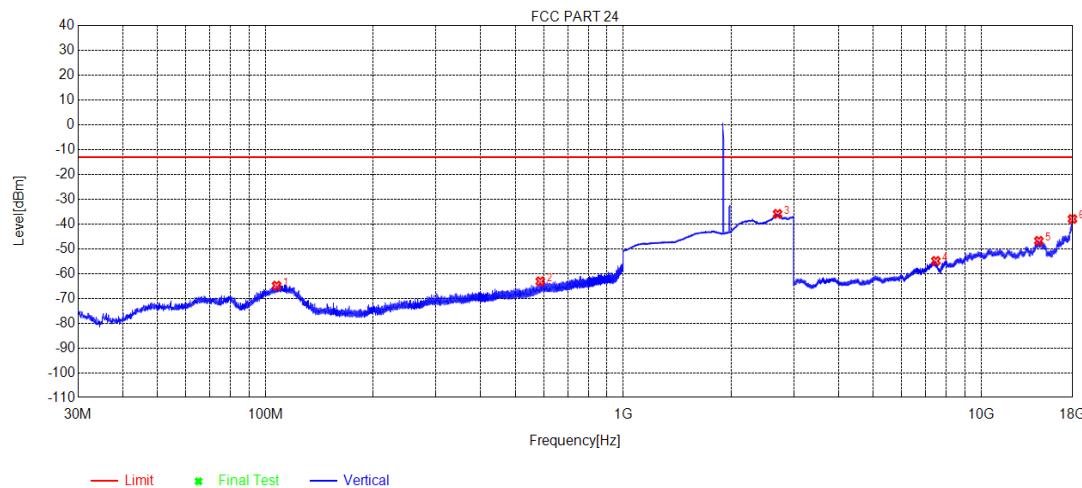
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## 7.22. Test Band = WCDMA\_II\_TM1 UP ANT

### 7.22.1. Test Channel = Mid Channel

#### Test Graph



#### Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	107.6039	-70.70	-64.85	-13.00	51.85	284	2	Vertical
2	586.8563	-70.10	-63.11	-13.00	50.11	266	31	Vertical
3	2700.3401	-67.57	-35.90	-13.00	22.90	152	168	Vertical
4	7474.6492	-55.08	-54.88	-13.00	41.88	166	347	Vertical
5	14500.383	-59.29	-46.78	-13.00	33.78	174	187	Vertical
6	17997.499	-55.77	-37.95	-13.00	24.95	221	128	Vertical



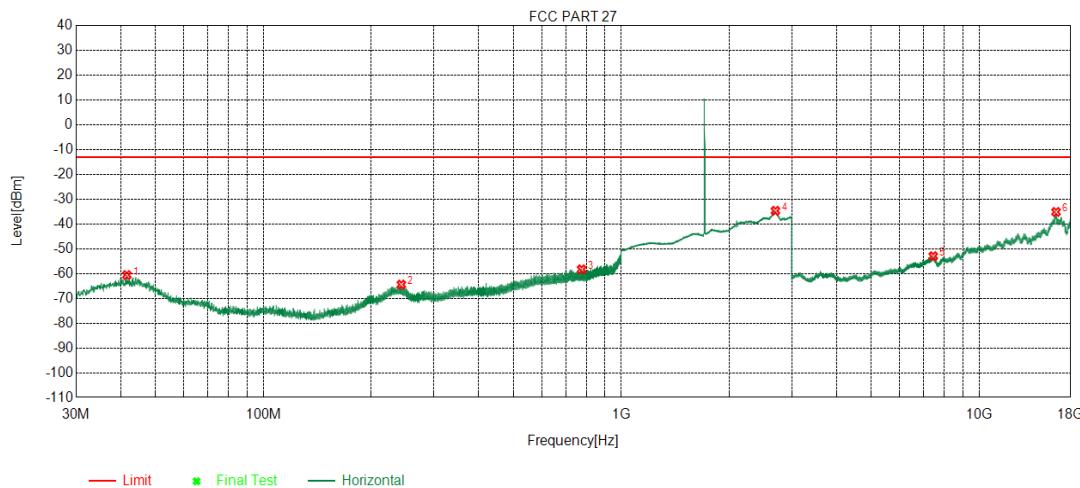
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## 7.23. Test Band = WCDMA\_IV\_TM1 UP ANT

### 7.23.1. Test Channel = Low Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.5921	-67.43	-60.59	-13.00	47.59	262	317	Horizontal
2	243.1197	-67.16	-64.44	-13.00	51.44	251	352	Horizontal
3	775.3853	-68.16	-58.25	-13.00	45.25	228	136	Horizontal
4	2697.5395	-67.50	-34.64	-13.00	21.64	115	90	Horizontal
5	7444.1481	-52.92	-52.95	-13.00	39.95	211	167	Horizontal
6	16401.946	-49.50	-35.10	-13.00	22.10	276	4	Horizontal

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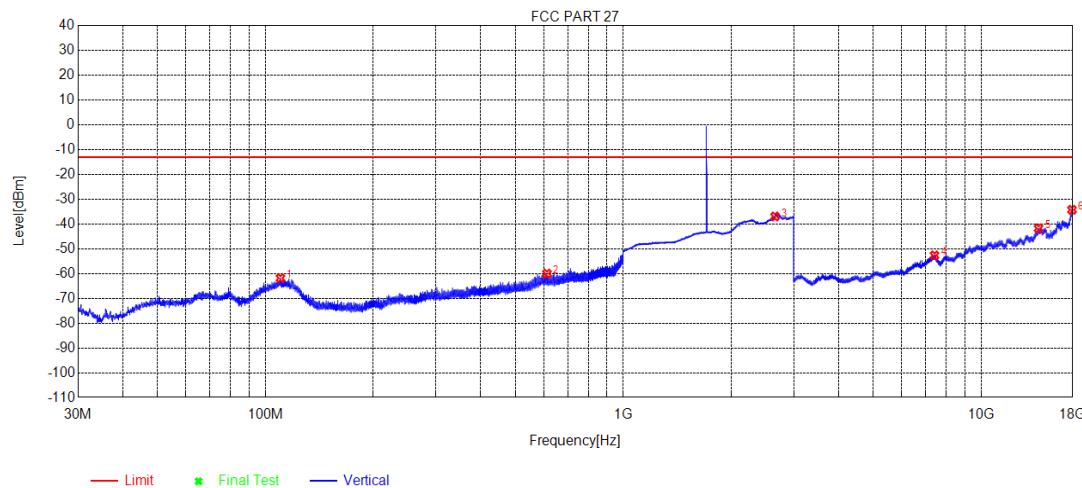
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## 7.24. Test Band = WCDMA\_IV\_TM1 UP ANT

### 7.24.1. Test Channel = Low Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.2715	-68.21	-61.82	-13.00	48.82	176	222	Vertical
2	612.3686	-67.60	-60.00	-13.00	47.00	252	284	Vertical
3	2656.3313	-67.77	-36.93	-13.00	23.93	266	345	Vertical
4	7411.1470	-53.14	-52.63	-13.00	39.63	295	79	Vertical
5	14467.382	-53.98	-41.73	-13.00	28.73	176	146	Vertical
6	17940.498	-50.64	-34.25	-13.00	21.25	226	222	Vertical

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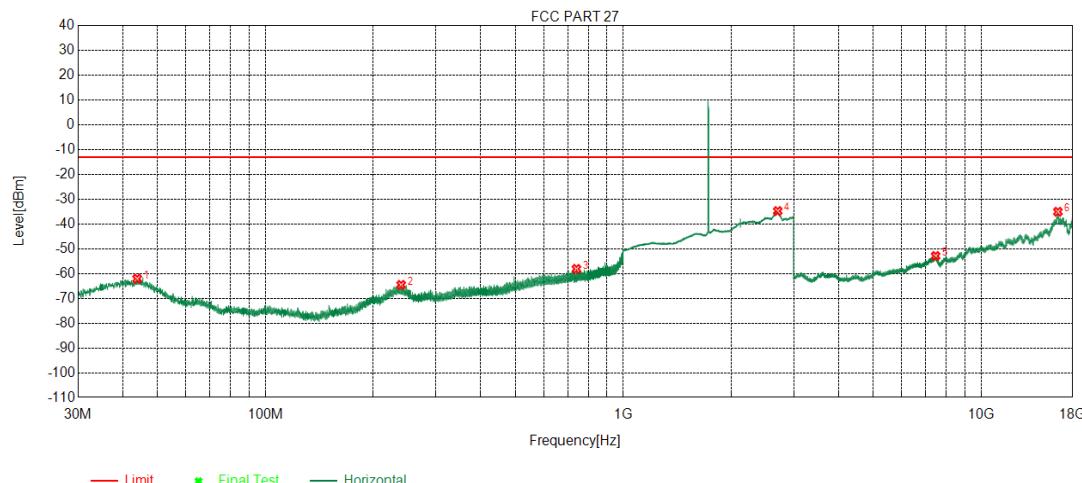
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## 7.25. Test Band = WCDMA\_IV\_TM1 UP ANT

## 7.25.1. Test Channel = Mid Channel

## Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.8717	-69.02	-62.06	-13.00	49.06	261	186	Horizontal
2	239.6760	-67.34	-64.55	-13.00	51.55	284	17	Horizontal
3	740.5120	-67.75	-58.10	-13.00	45.10	225	186	Horizontal
4	2702.3405	-67.60	-34.75	-13.00	21.75	186	163	Horizontal
5	7461.1487	-52.85	-52.87	-13.00	39.87	295	17	Horizontal
6	16385.446	-49.21	-35.02	-13.00	22.02	232	352	Horizontal

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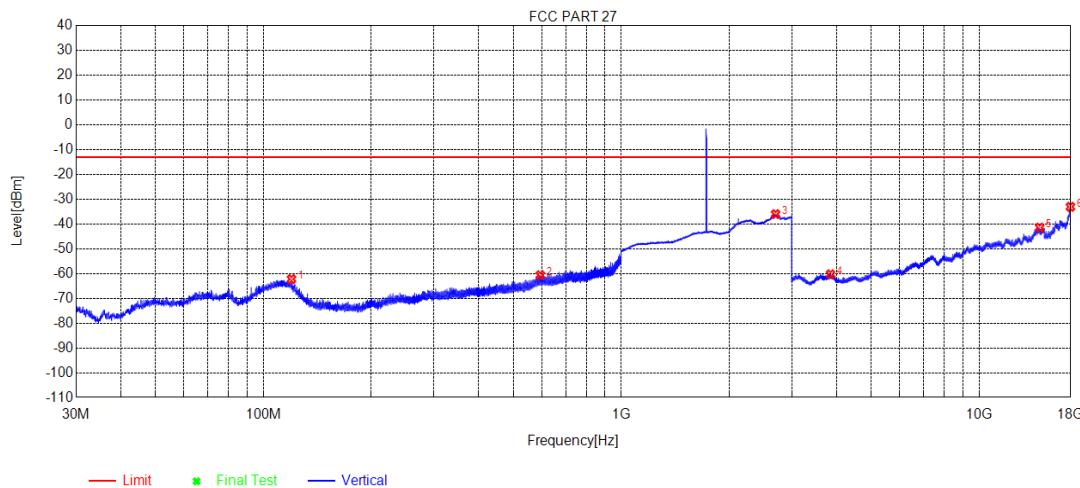
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## 7.26. Test Band = WCDMA\_IV\_TM1 UP ANT

## 7.26.1. Test Channel = Mid Channel

## Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	119.9235	-67.73	-62.19	-13.00	49.19	185	81	Vertical
2	594.4712	-67.98	-60.61	-13.00	47.61	166	14	Vertical
3	2699.9400	-67.64	-35.97	-13.00	22.97	212	241	Vertical
4	3845.5282	-51.46	-60.24	-13.00	47.24	296	49	Vertical
5	14763.892	-53.17	-41.41	-13.00	28.41	238	14	Vertical
6	17989.499	-50.65	-33.03	-13.00	20.03	211	49	Vertical

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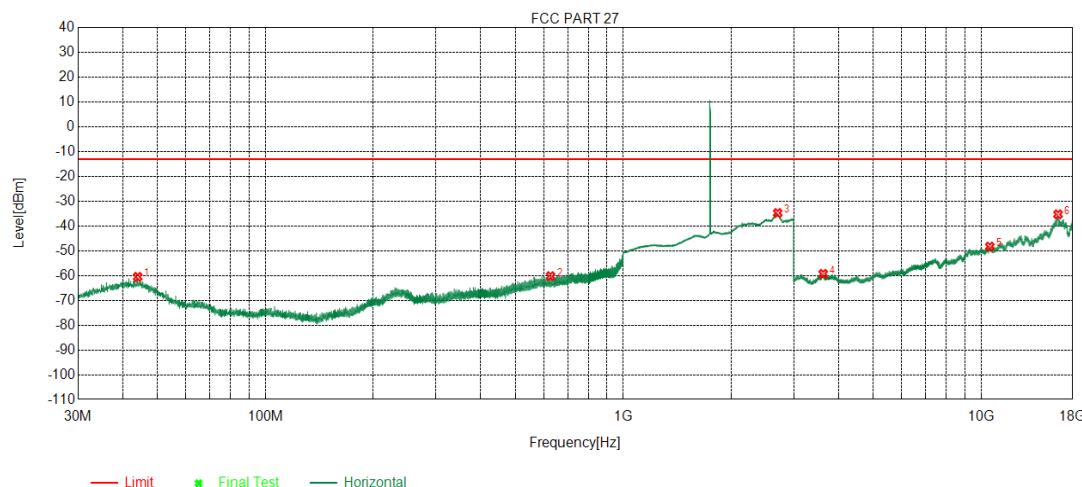
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## 7.27. Test Band = WCDMA\_IV\_TM1 UP ANT

## 7.27.1. Test Channel = High Channel

## Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.0172	-67.45	-60.48	-13.00	47.48	176	254	Horizontal
2	626.8708	-67.97	-60.21	-13.00	47.21	342	157	Horizontal
3	2701.9404	-67.59	-34.72	-13.00	21.72	252	94	Horizontal
4	3620.0207	-51.10	-59.28	-13.00	46.28	168	51	Horizontal
5	10575.252	-54.40	-48.27	-13.00	35.27	116	51	Horizontal
6	16401.946	-49.66	-35.26	-13.00	22.26	294	286	Horizontal

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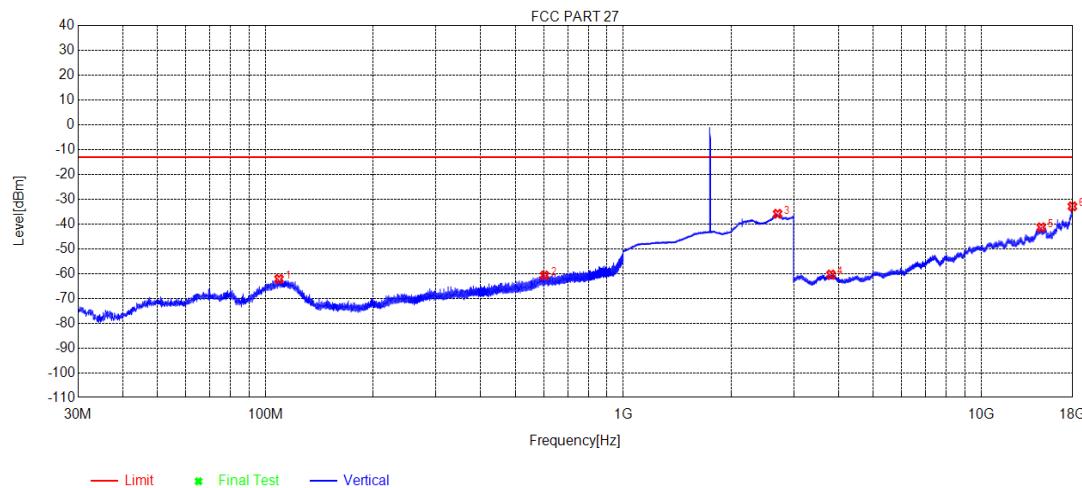
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## 7.28. Test Band = WCDMA\_IV\_TM1 UP ANT

### 7.28.1. Test Channel = Mid Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	109.2530	-68.40	-62.16	-13.00	49.16	166	0	Vertical
2	603.0077	-68.36	-60.73	-13.00	47.73	132	0	Vertical
3	2700.3401	-67.52	-35.85	-13.00	22.85	172	23	Vertical
4	3807.5269	-51.54	-60.38	-13.00	47.38	286	356	Vertical
5	14723.890	-53.32	-41.31	-13.00	28.31	296	253	Vertical
6	17993.999	-50.59	-32.86	-13.00	19.86	215	0	Vertical

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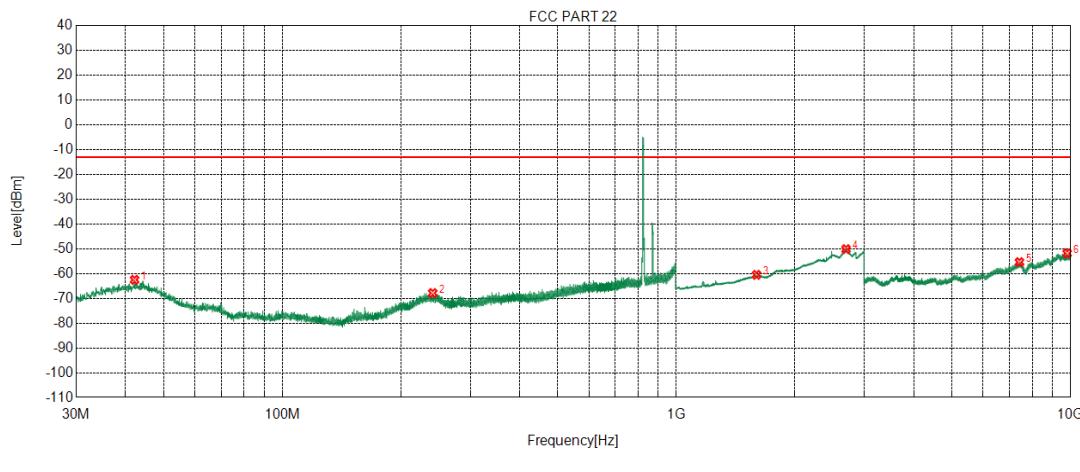
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## 7.29. Test Band = WCDMA\_V\_TM1 UP ANT

### 7.29.1. Test Channel = Low Channel

#### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.2226	-69.37	-62.49	-13.00	49.49	198	16	Horizontal
2	240.9855	-70.62	-67.85	-13.00	54.85	172	186	Horizontal
3	1597.7195	-65.00	-60.49	-13.00	47.49	212	287	Horizontal
4	2694.7389	-62.90	-50.12	-13.00	37.12	256	173	Horizontal
5	7423.4474	-55.32	-55.37	-13.00	42.37	266	16	Horizontal
6	9809.8270	-57.34	-51.80	-13.00	38.80	234	86	Horizontal

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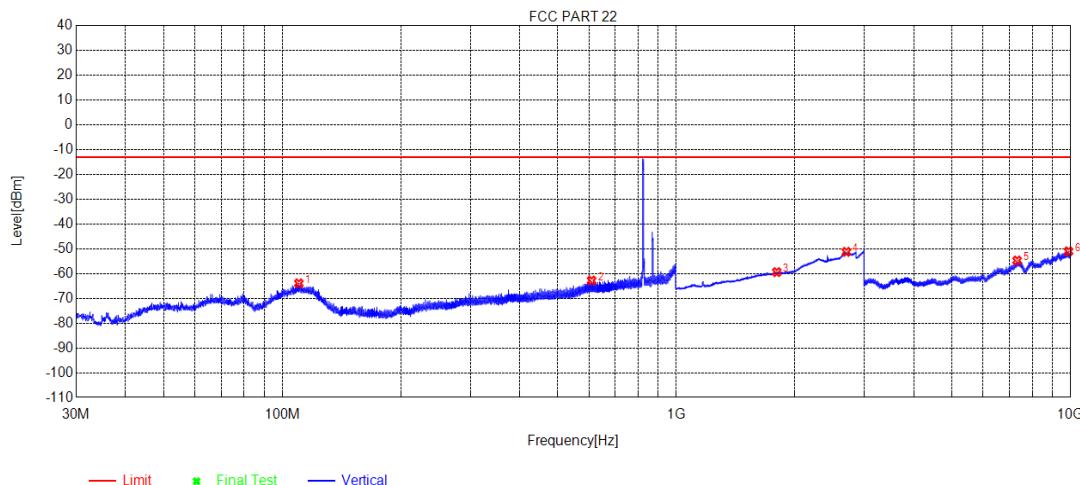
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### 7.30. Test Band = WCDMA\_V\_TM1 UP ANT

#### 7.30.1. Test Channel = Low Channel

##### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.2230	-70.31	-63.92	-13.00	50.92	116	88	Vertical
2	609.5070	-70.38	-62.77	-13.00	49.77	172	285	Vertical
3	1798.1596	-64.60	-59.38	-13.00	46.38	242	318	Vertical
4	2700.3401	-62.88	-51.21	-13.00	38.21	266	318	Vertical
5	7320.7774	-55.19	-54.70	-13.00	41.70	237	350	Vertical
6	9886.5962	-57.39	-51.00	-13.00	38.00	218	20	Vertical



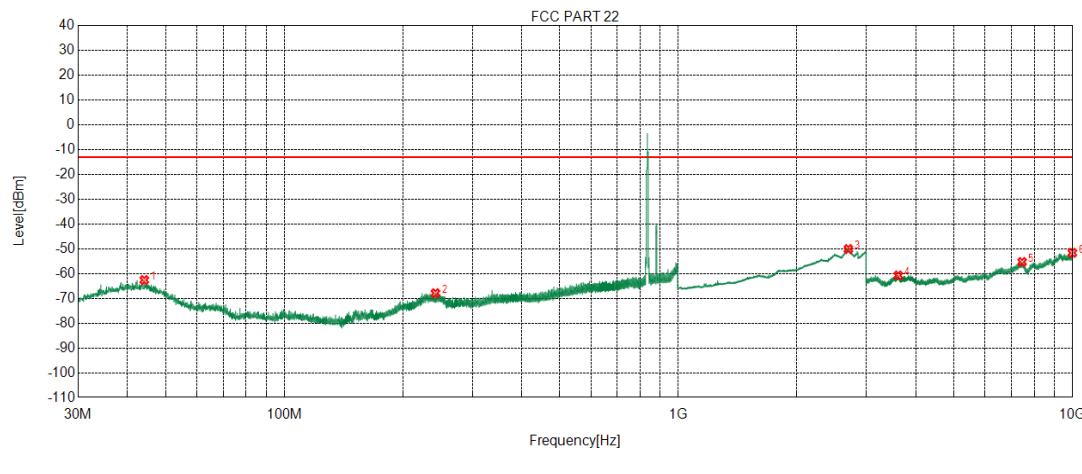
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## 7.31. Test Band = WCDMA\_V\_TM1 UP ANT

## 7.31.1. Test Channel = Mid Channel

## Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.1627	-69.57	-62.59	-13.00	49.59	116	356	Horizontal
2	242.0526	-70.64	-67.90	-13.00	54.90	295	323	Horizontal
3	2700.7401	-62.99	-50.08	-13.00	37.08	223	7	Horizontal
4	3614.1538	-52.58	-60.73	-13.00	47.73	238	38	Horizontal
5	7450.0483	-55.26	-55.29	-13.00	42.29	284	250	Horizontal
6	9992.2997	-57.15	-51.61	-13.00	38.61	268	73	Horizontal

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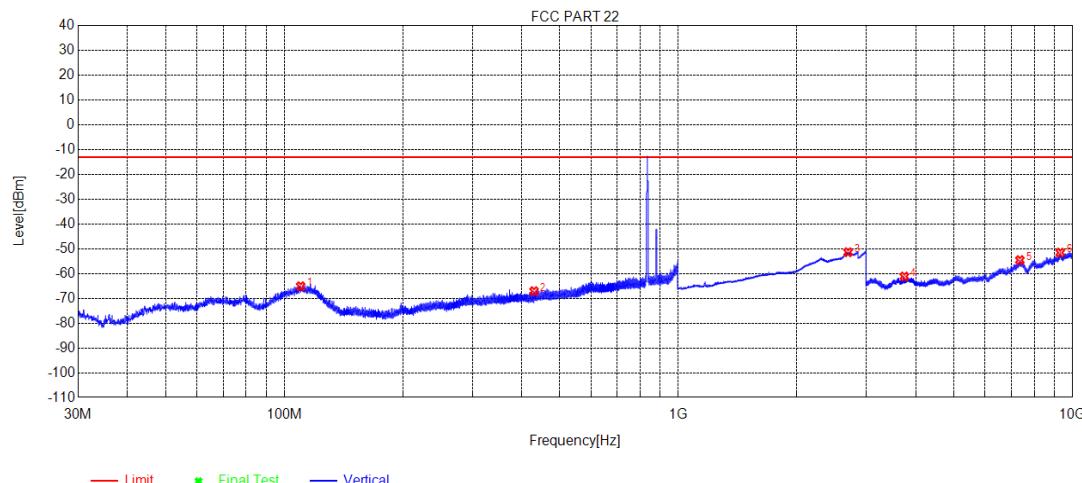
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### 7.32. Test Band = WCDMA\_V\_TM1 UP ANT

#### 7.32.1. Test Channel = Mid Channel

##### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.1260	-71.50	-65.10	-13.00	52.10	299	262	Vertical
2	430.4845	-70.51	-67.09	-13.00	54.09	272	293	Vertical
3	2695.5391	-62.96	-51.37	-13.00	38.37	185	116	Vertical
4	3745.5249	-52.04	-61.17	-13.00	48.17	124	114	Vertical
5	7352.9784	-55.07	-54.55	-13.00	41.55	166	43	Vertical
6	9309.3103	-57.55	-51.53	-13.00	38.53	138	158	Vertical



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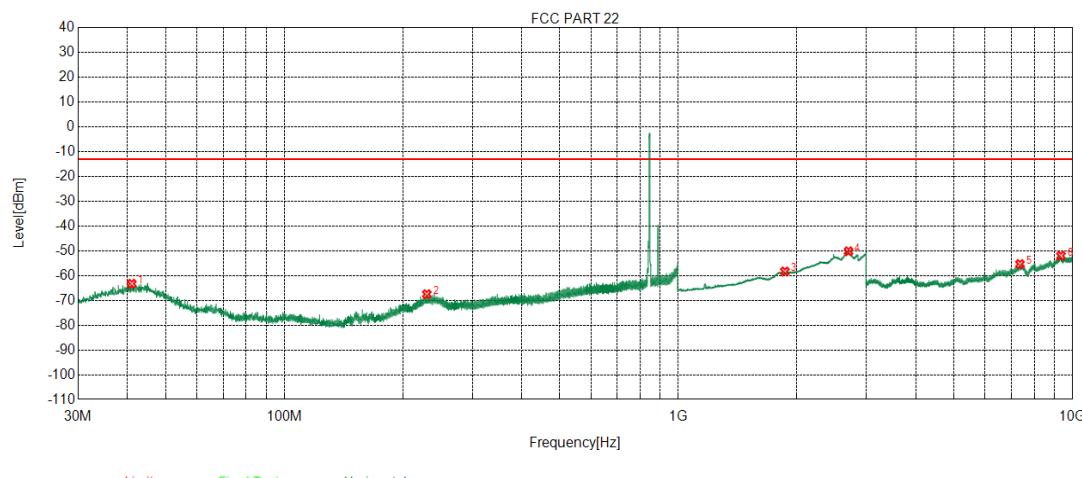
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### 7.33. Test Band = WCDMA\_V\_TM1 UP ANT

#### 7.33.1. Test Channel = High Channel

##### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.0586	-70.08	-63.26	-13.00	50.26	161	197	Horizontal
2	230.0725	-70.32	-67.49	-13.00	54.49	175	272	Horizontal
3	1863.7728	-64.35	-58.32	-13.00	45.32	296	93	Horizontal
4	2702.3405	-63.04	-50.17	-13.00	37.17	211	332	Horizontal
5	7358.8120	-55.16	-55.32	-13.00	42.32	285	197	Horizontal
6	9347.5783	-57.50	-52.01	-13.00	39.01	263	0	Horizontal



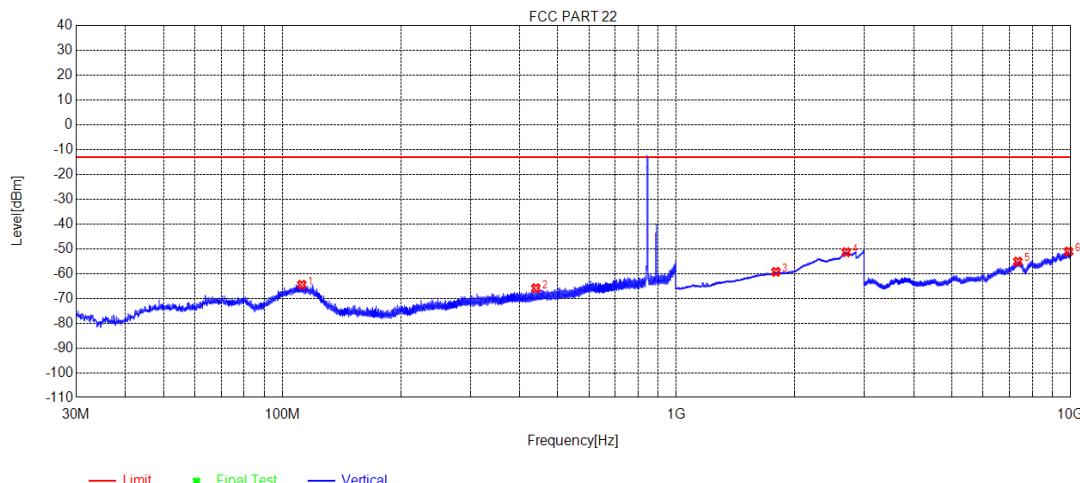
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### 7.34. Test Band = WCDMA\_V\_TM1 UP ANT

#### 7.34.1. Test Channel = High Channel

##### Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	112.1146	-70.70	-64.48	-13.00	51.48	188	102	Vertical
2	440.2335	-69.65	-65.90	-13.00	52.90	196	278	Vertical
3	1789.3579	-64.45	-59.26	-13.00	46.26	112	136	Vertical
4	2699.1398	-63.02	-51.37	-13.00	38.37	286	57	Vertical
5	7352.0451	-55.66	-55.14	-13.00	42.14	234	134	Vertical
6	9893.1298	-57.44	-51.06	-13.00	38.06	244	22	Vertical

##### Remark:

- 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.
- 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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The End

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