

# Appendix B

## WCDMA Band II & IV & V



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中国·深圳·科技园中区M-10栋一号厂房

| (86-755) 26012053 f (86-755) 26710594

[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)

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[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.79	24.79	33.00	PASS
Band II	9400	23.80	24.80	33.00	PASS
Band II	9538	23.43	24.43	33.00	PASS
Band IV	1312	23.20	24.20	30.00	PASS
Band IV	1413	23.17	24.17	30.00	PASS
Band IV	1513	23.18	24.18	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.65	22.00	38.45	PASS
Band V	4182	23.58	21.93	38.45	PASS
Band V	4233	23.60	21.95	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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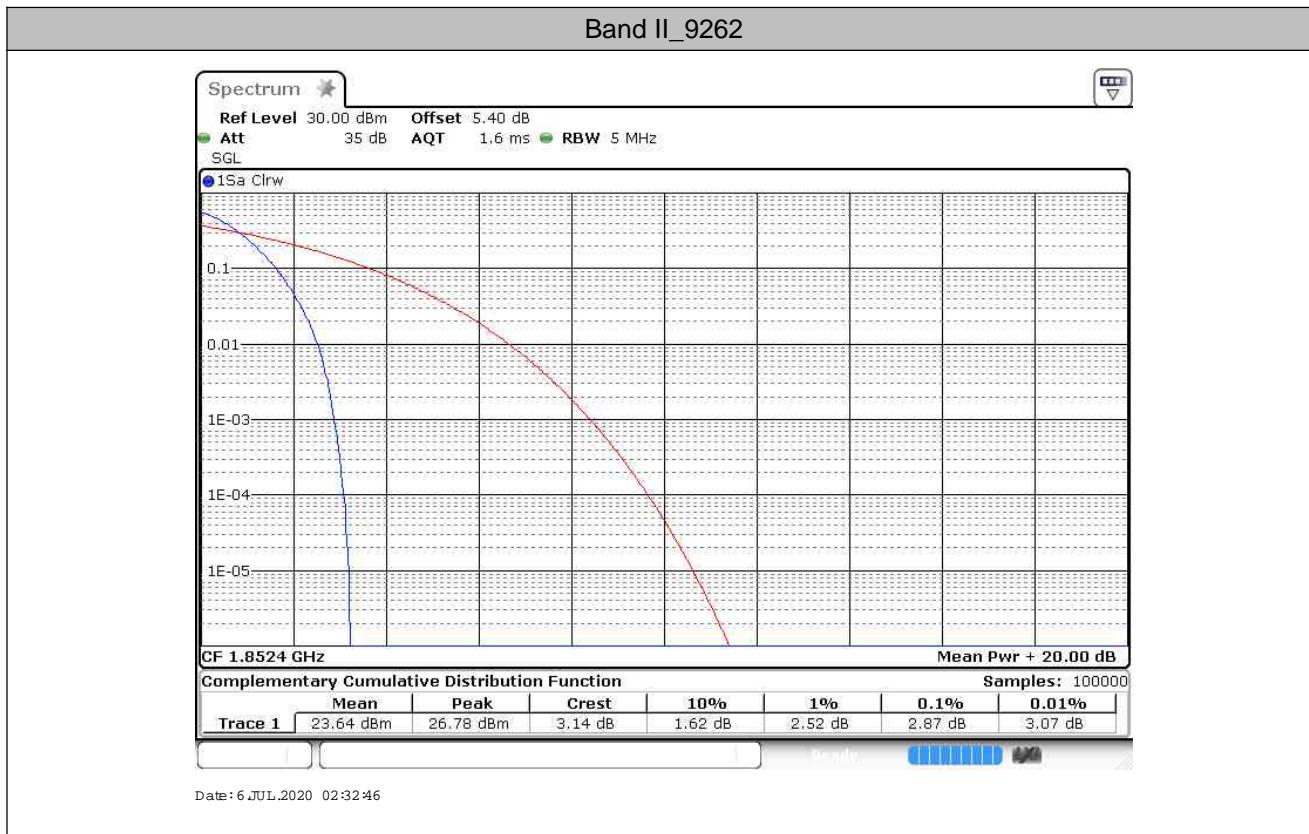
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.87	13	PASS
Band II	9400	8.38	13	PASS
Band II	9538	3.07	13	PASS
Band IV	1312	3.04	13	PASS
Band IV	1413	3.16	13	PASS
Band IV	1513	2.99	13	PASS
Band V	4132	3.22	13	PASS
Band V	4182	3.13	13	PASS
Band V	4233	3.28	13	PASS

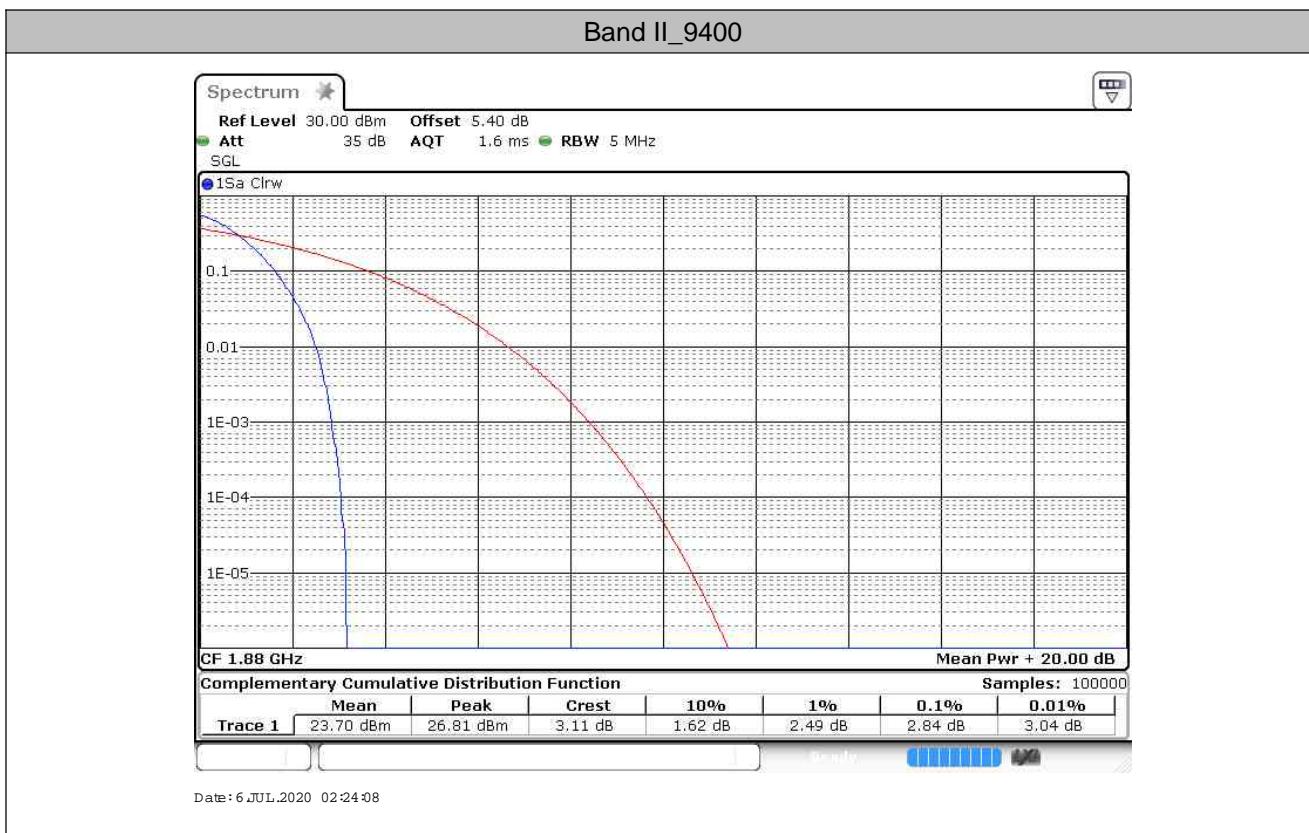
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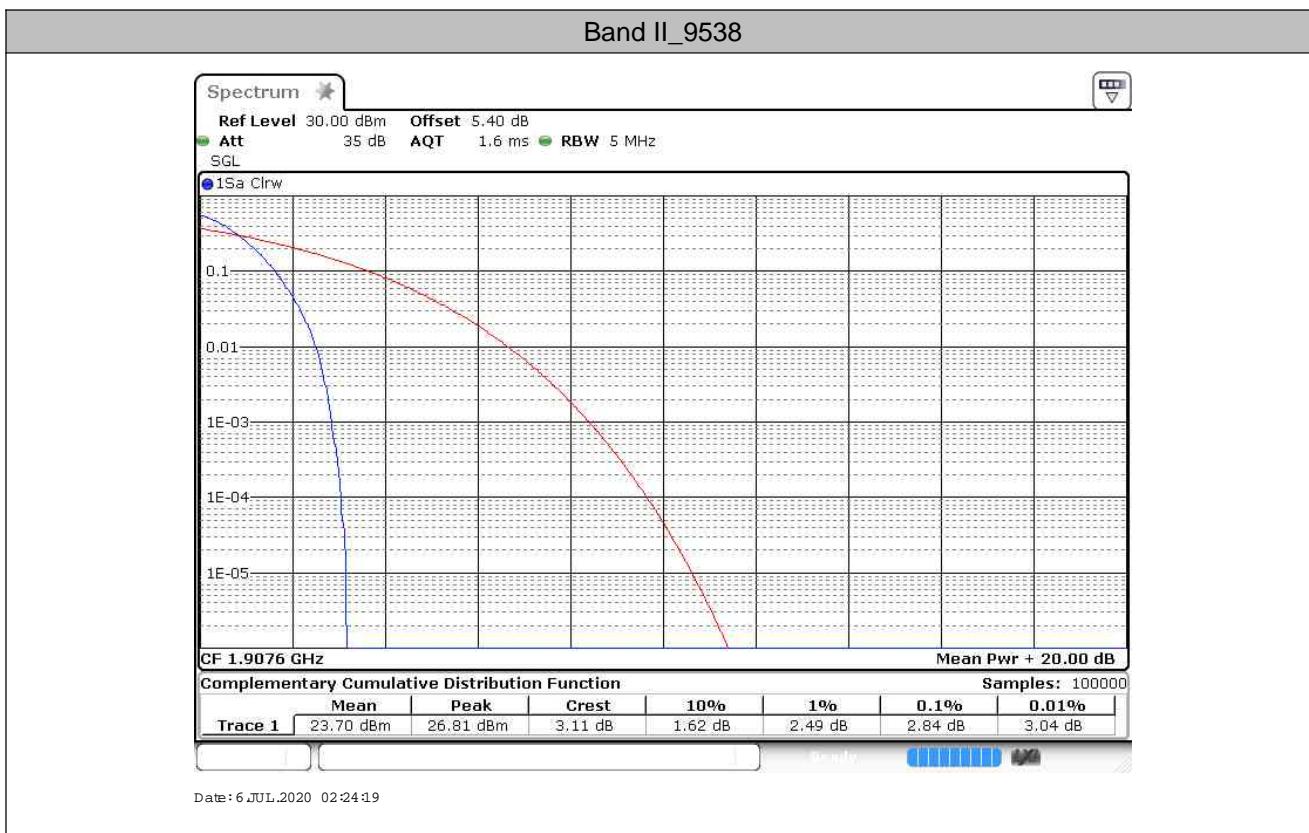


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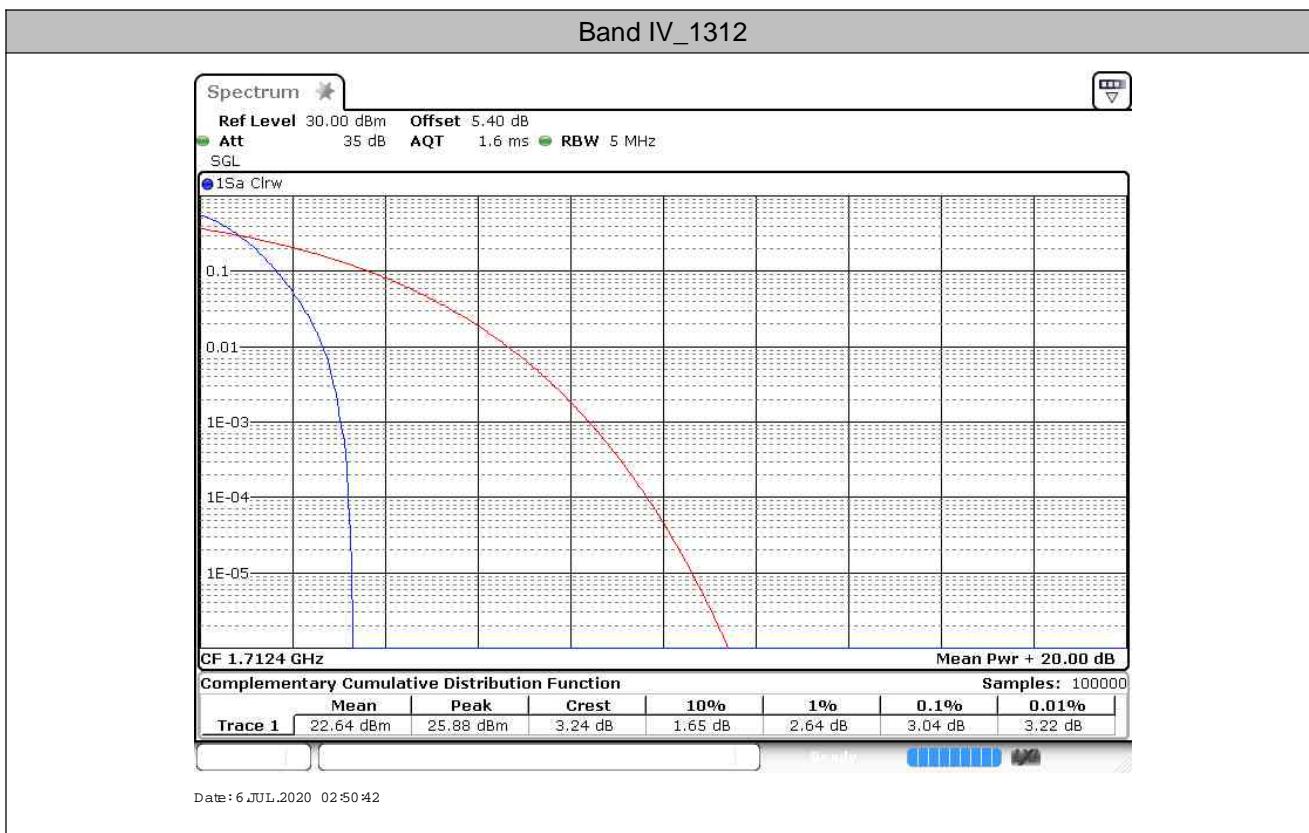


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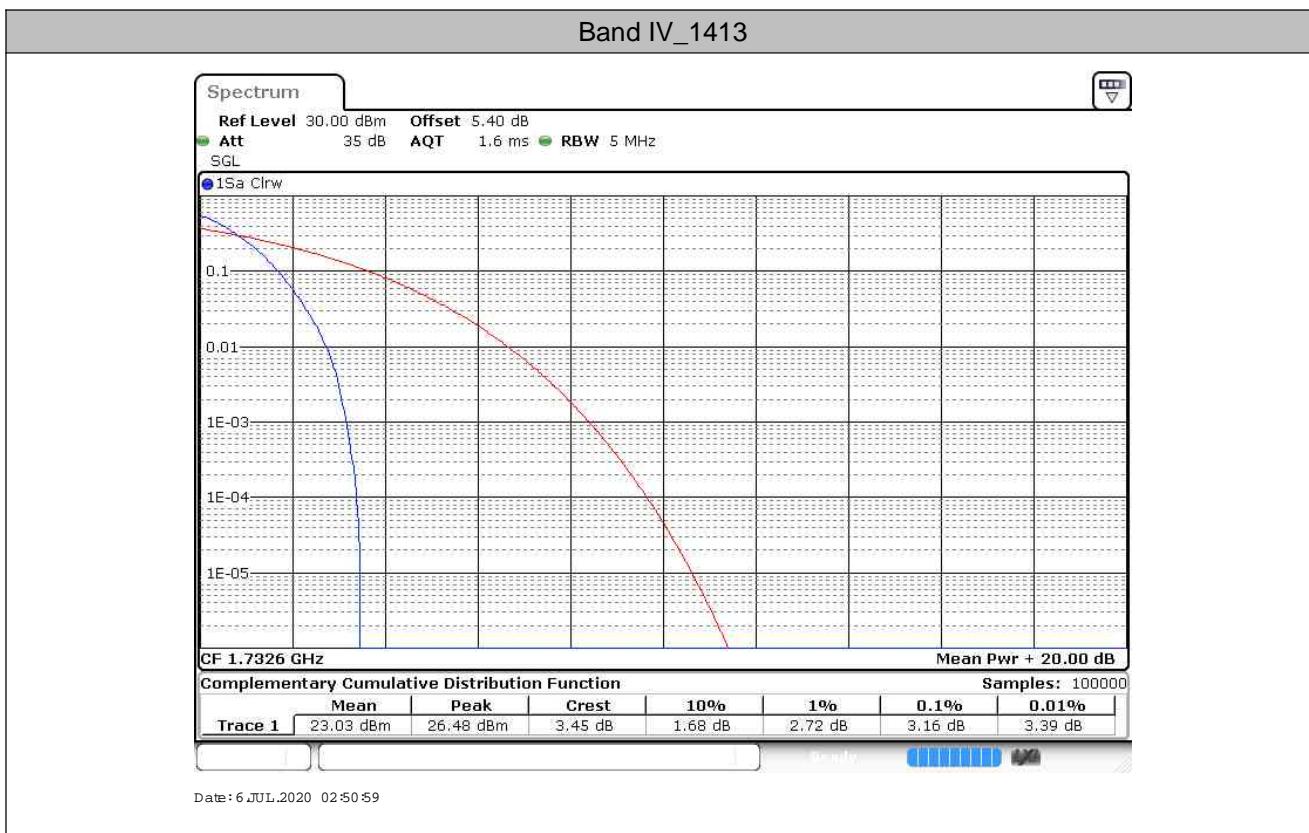


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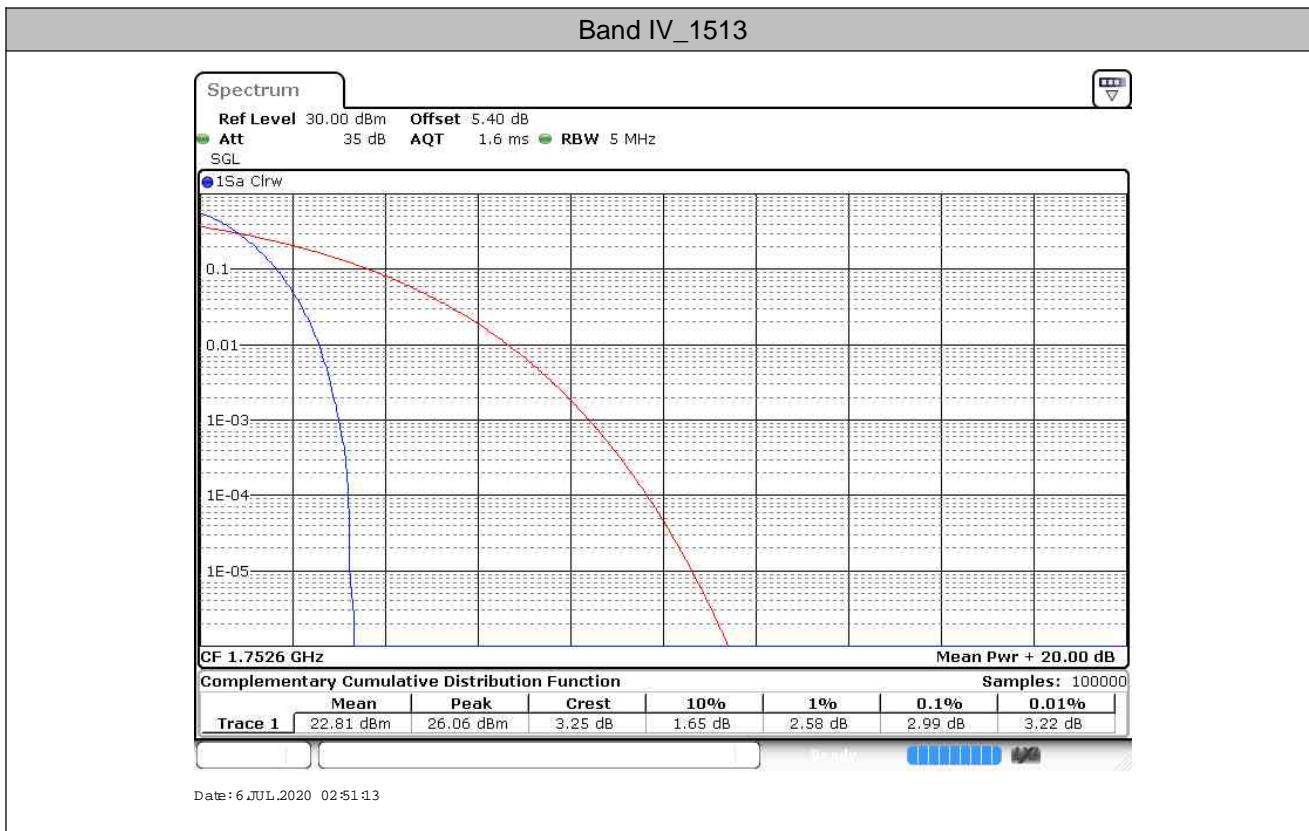
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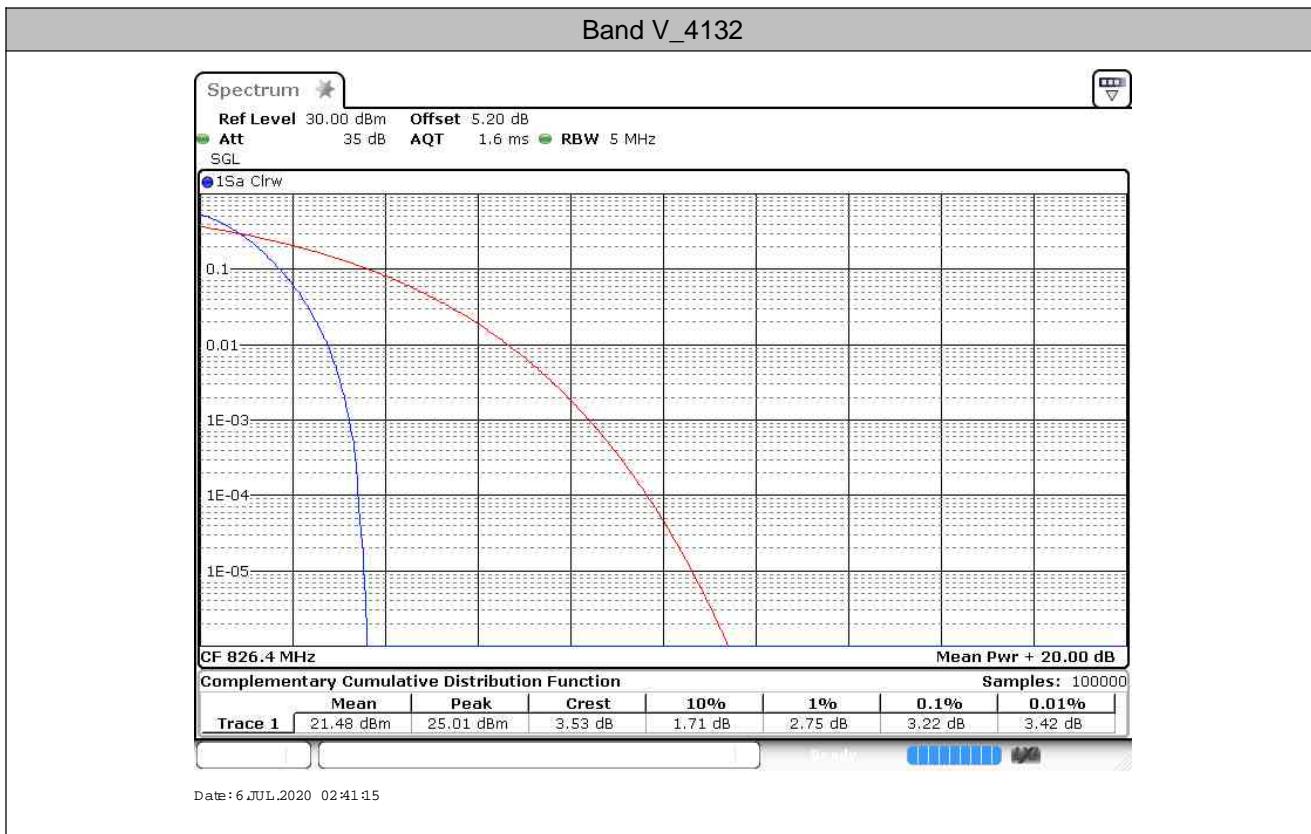


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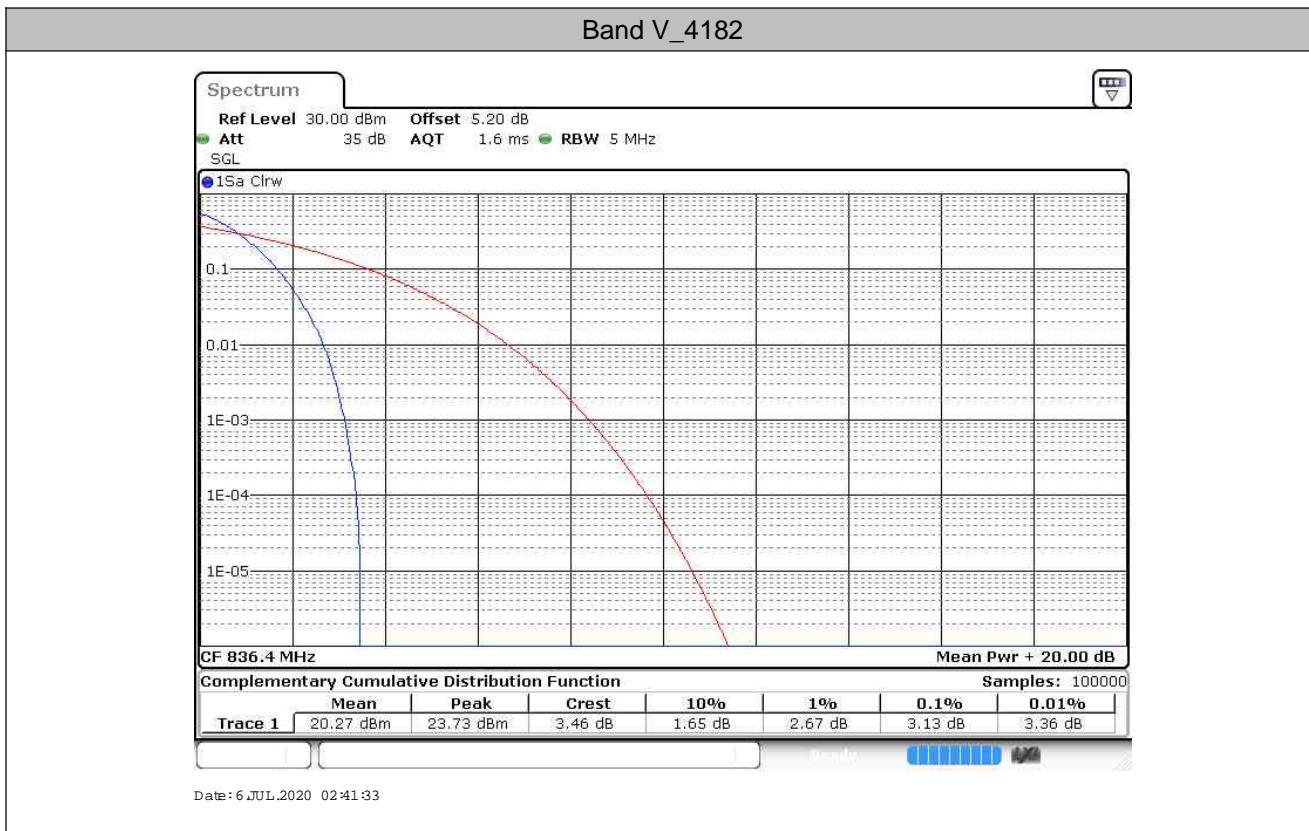


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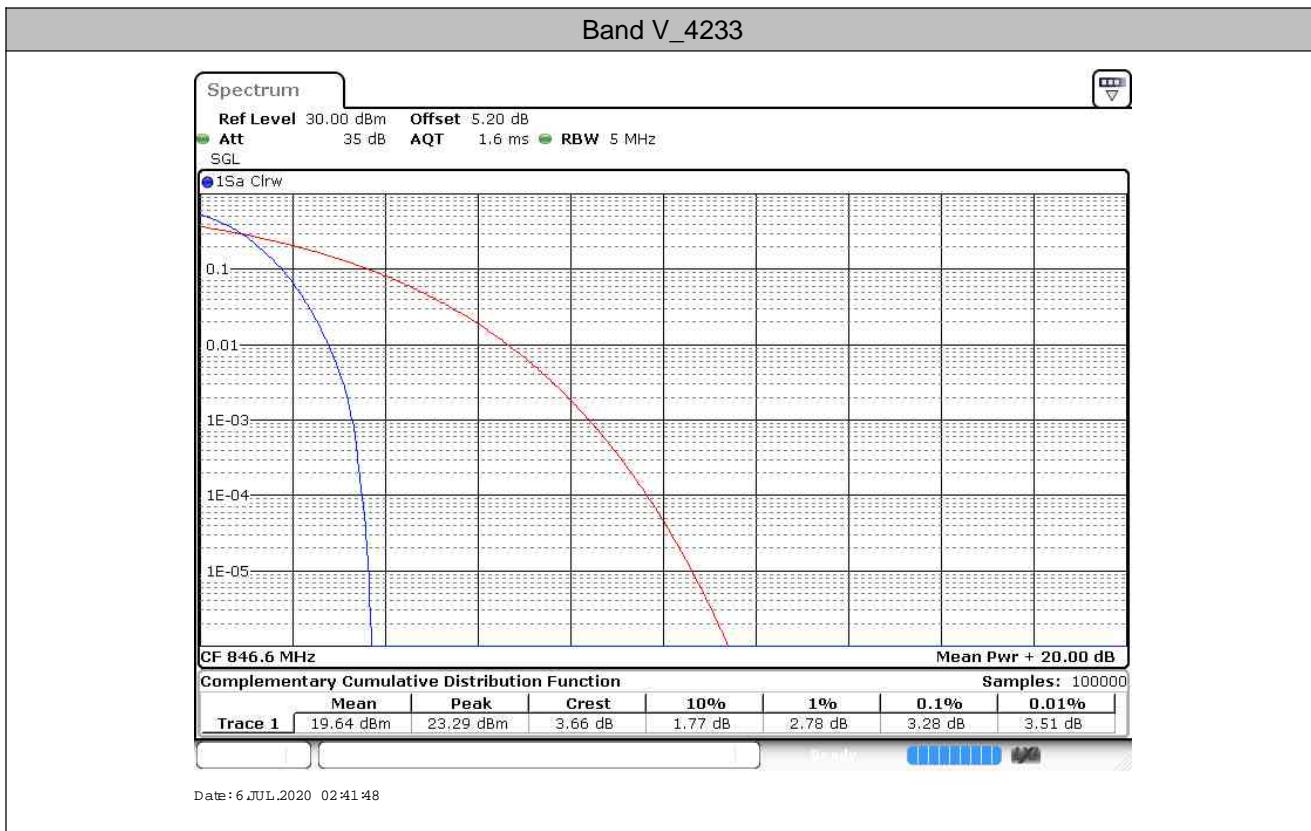


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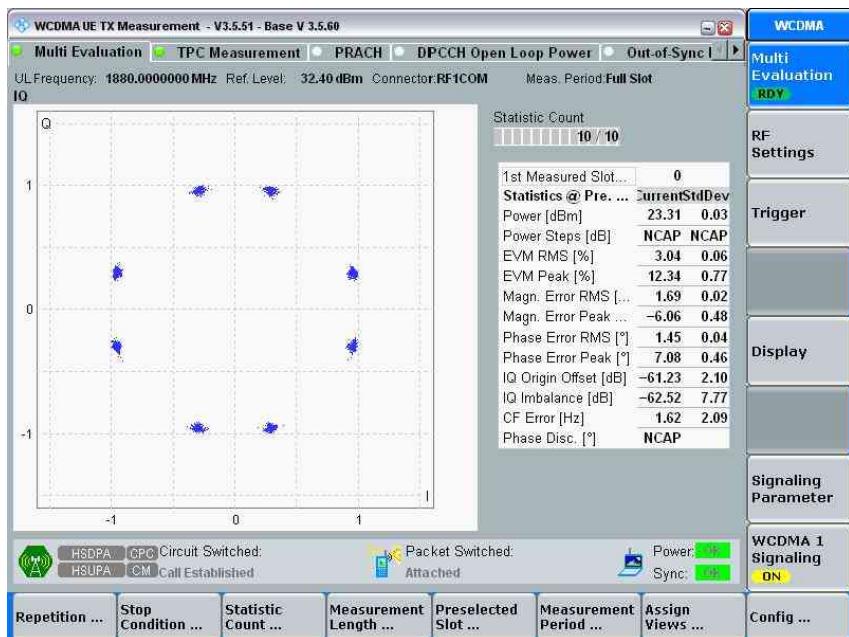


### 3. Modulation Characteristics

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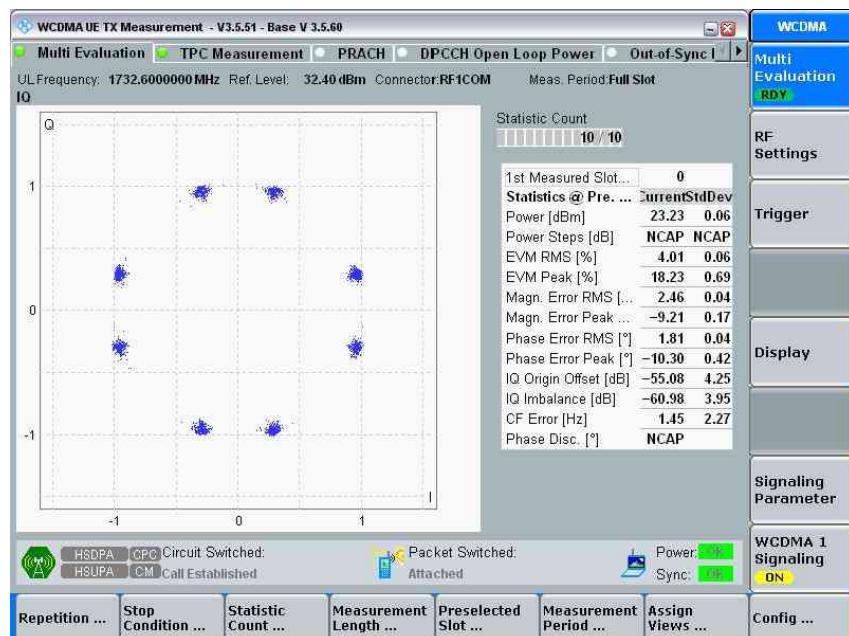
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### 3.2. Test Band = WCDMA Band IV

### 3.2.1. Test Mode = UMTS/TM1

### 3.2.1.1. Test Channel = MCH



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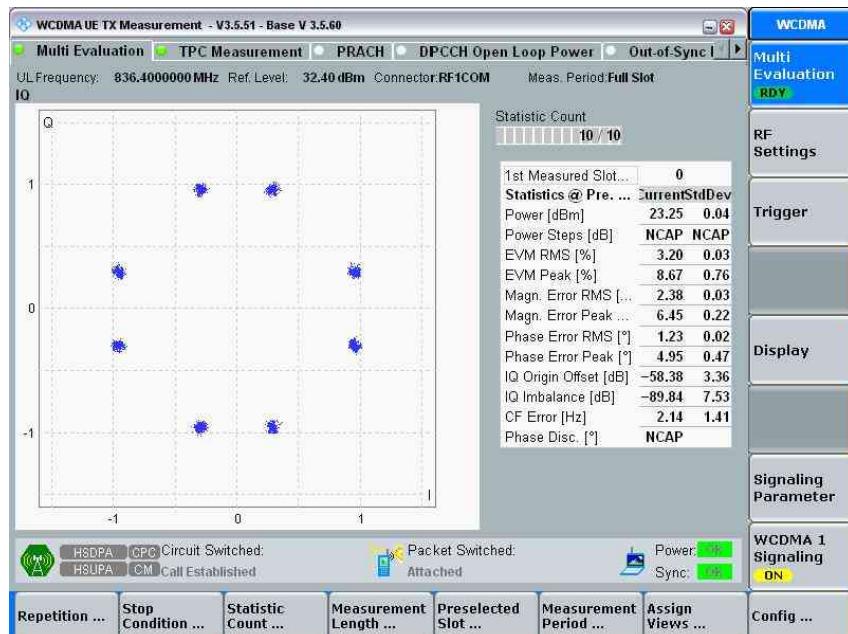
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### 3.3. Test Band = WCDMA Band V

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

##### 3.3.1.1. Test Channel = MCH



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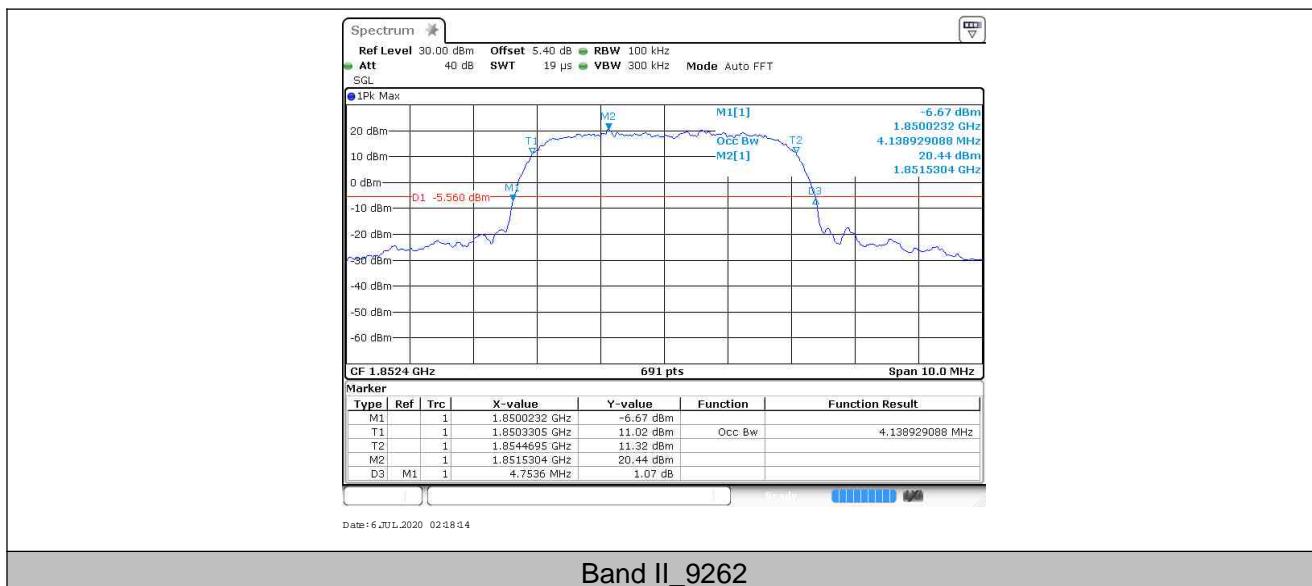
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4138.9	4754	---	PASS
Band II	9400	4124.5	4768	---	PASS
Band II	9538	4138.9	4739	---	PASS
Band IV	1312	4124.5	4739	---	PASS
Band IV	1413	4124.5	4739	---	PASS
Band IV	1513	4138.9	4739	---	PASS
Band V	4132	4124.5	4725	---	PASS
Band V	4182	4110.0	4725	---	PASS
Band V	4233	4138.9	4739	---	PASS

### 4.2. Test Plots



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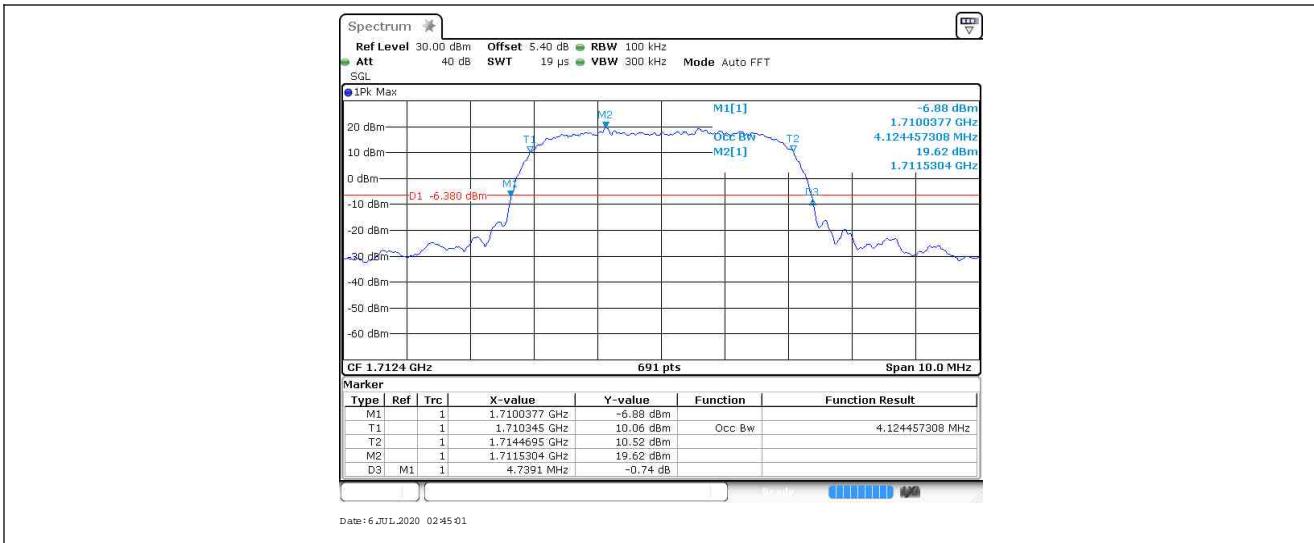
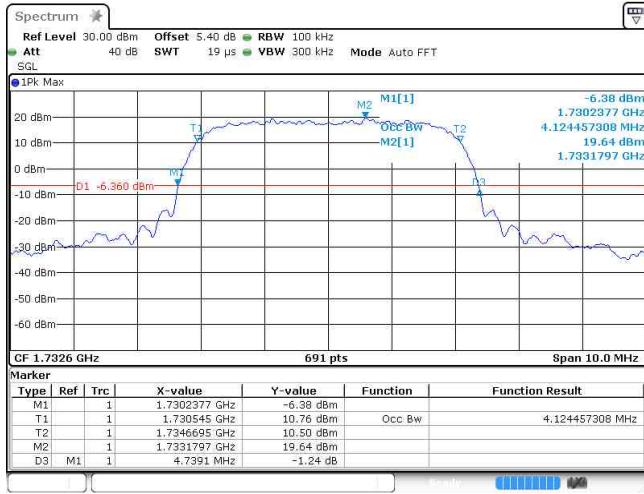




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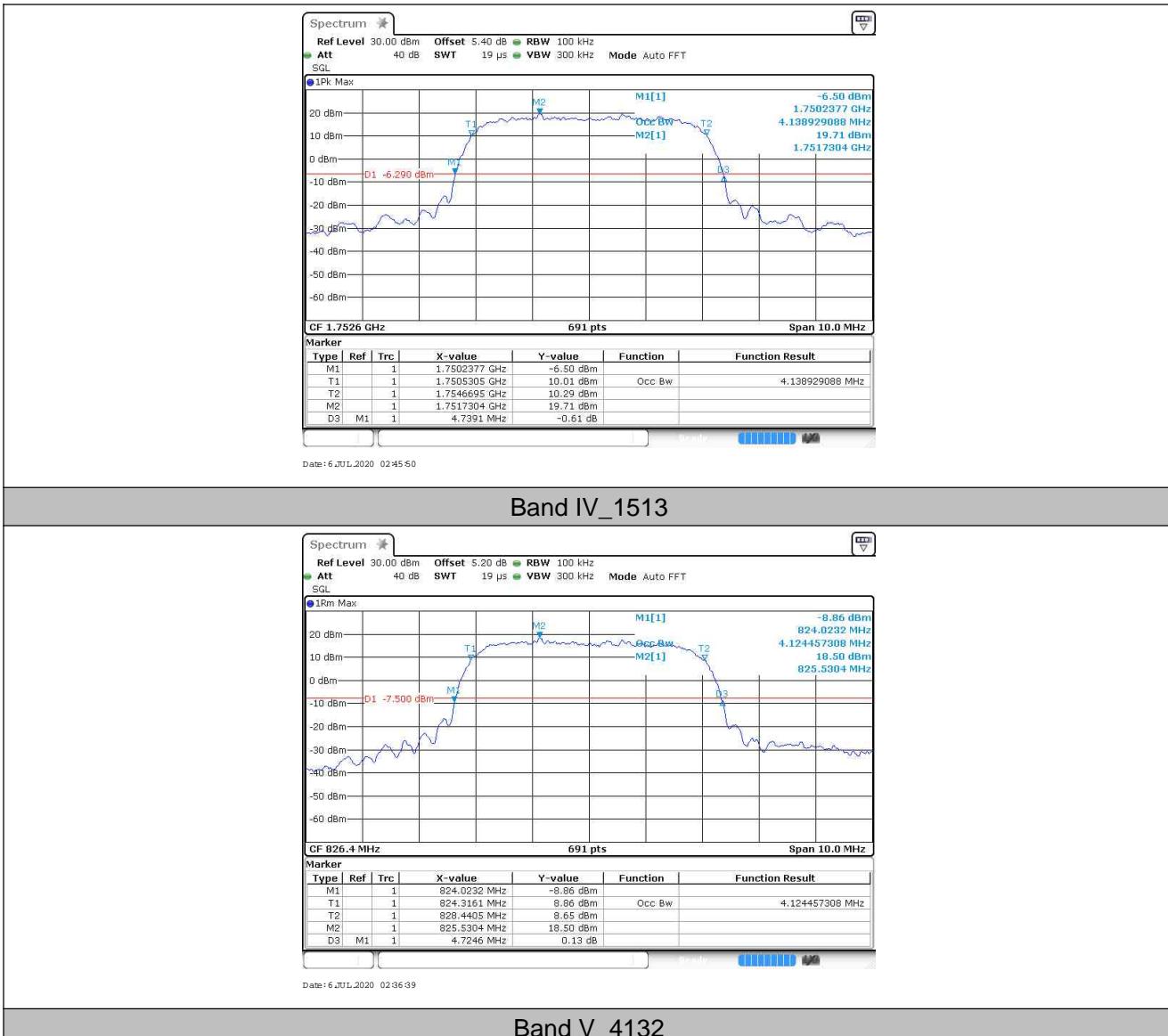


**Band IV\_1312****Band IV\_1413**

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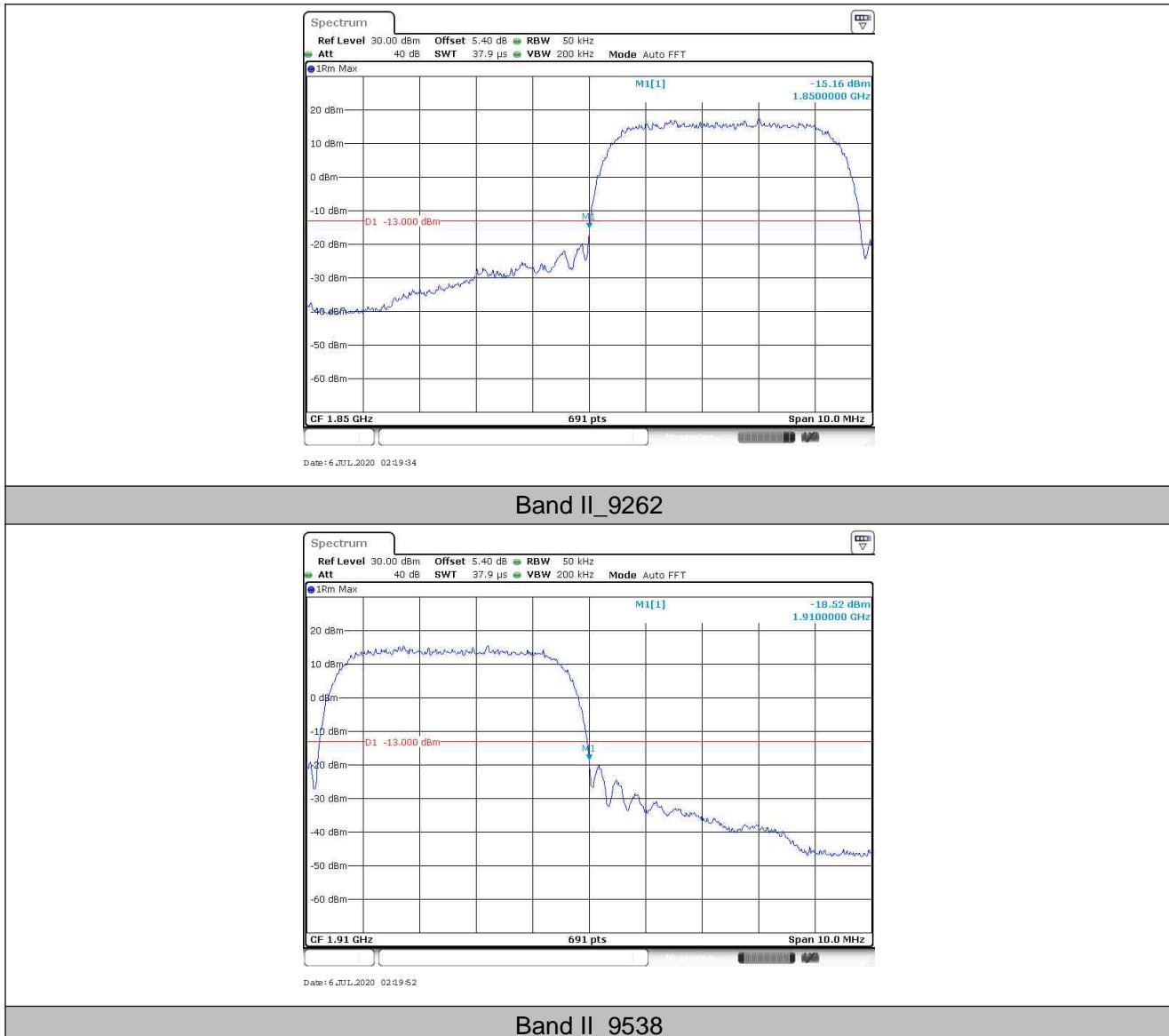
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## 5. Band Edge Compliance

### 5.1. Test Plots



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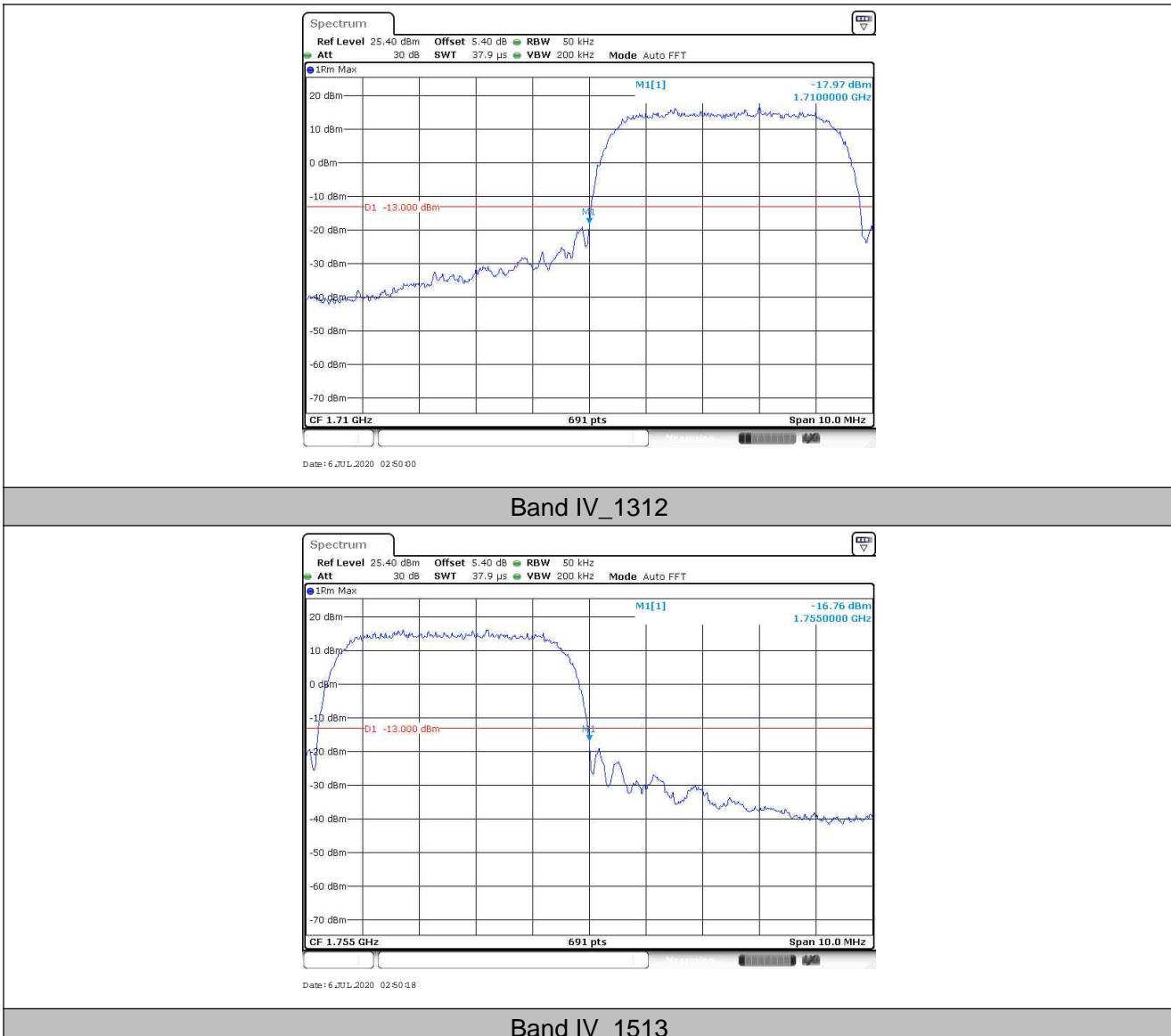
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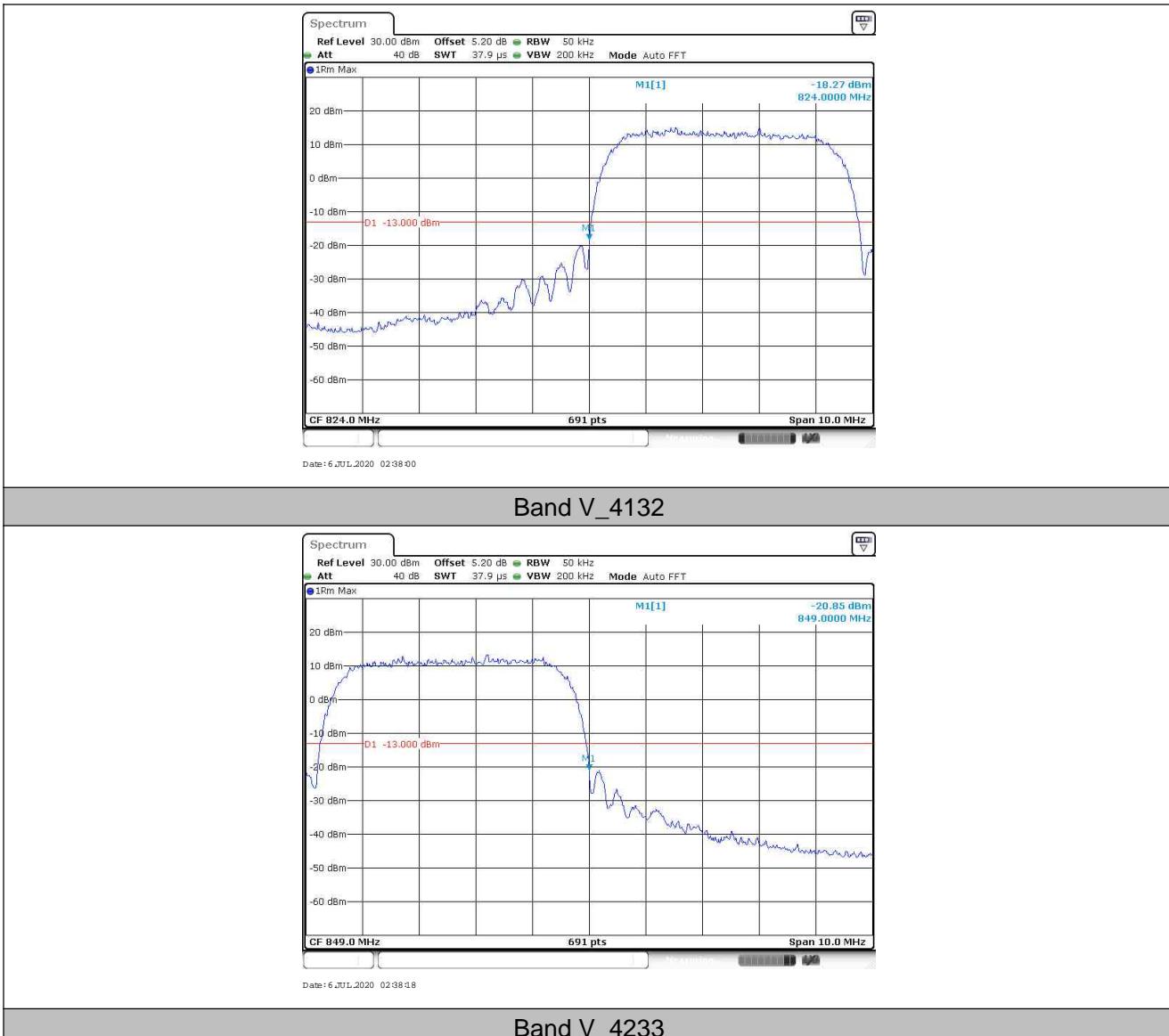
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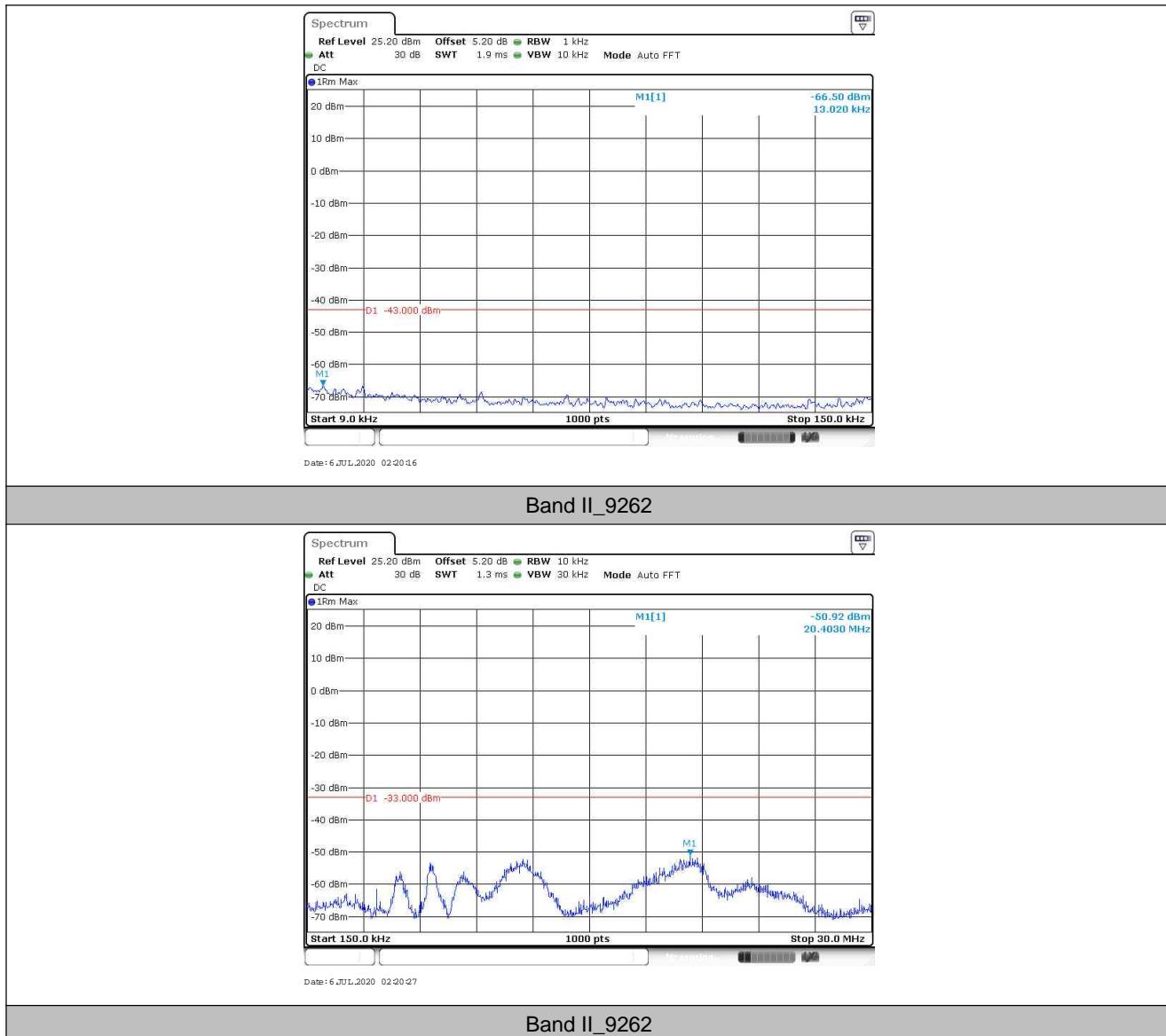
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## 6. Spurious Emission at Antenna Terminal

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 =  $k * (\text{Span} / \text{RBW})$ " 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

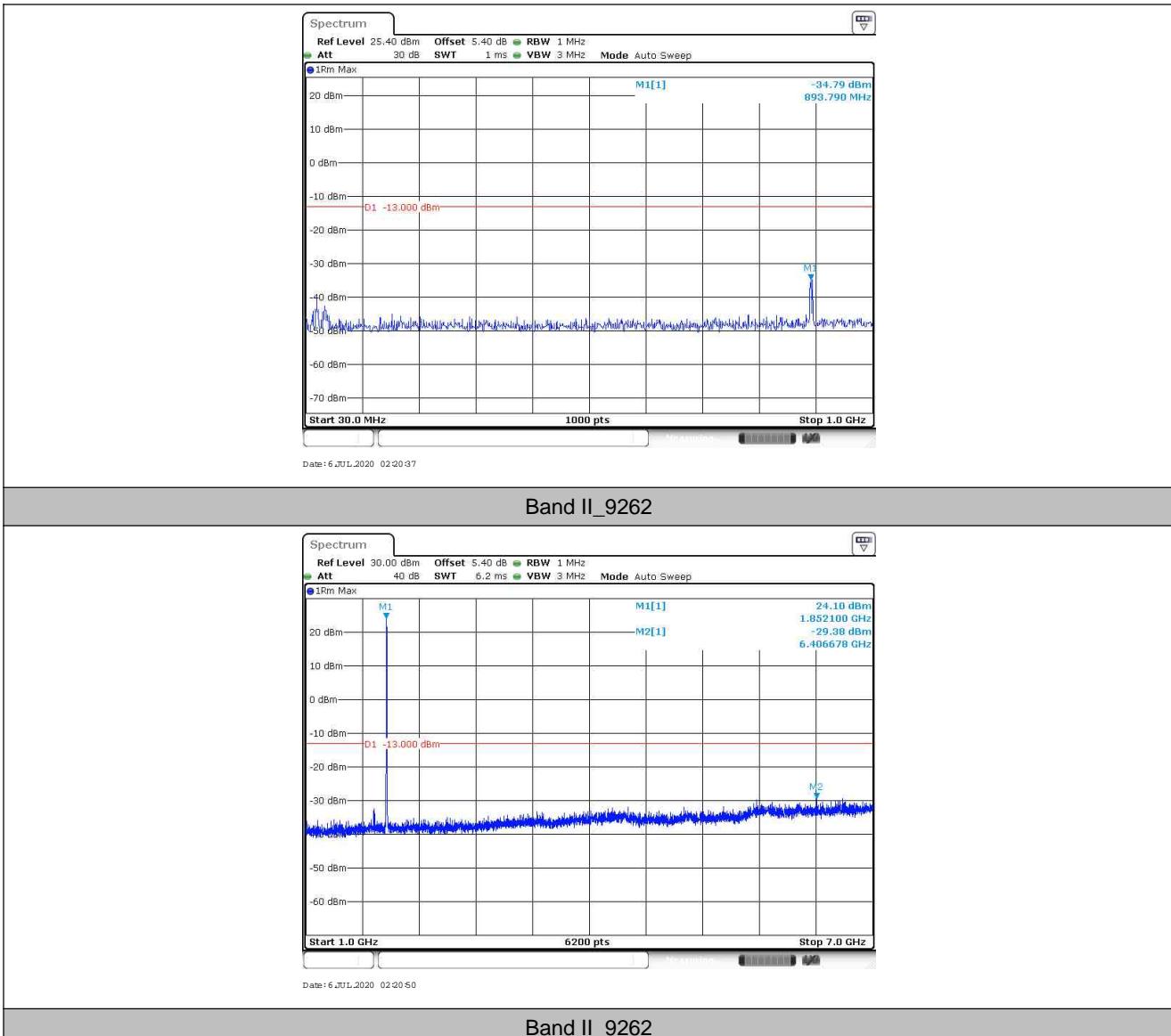


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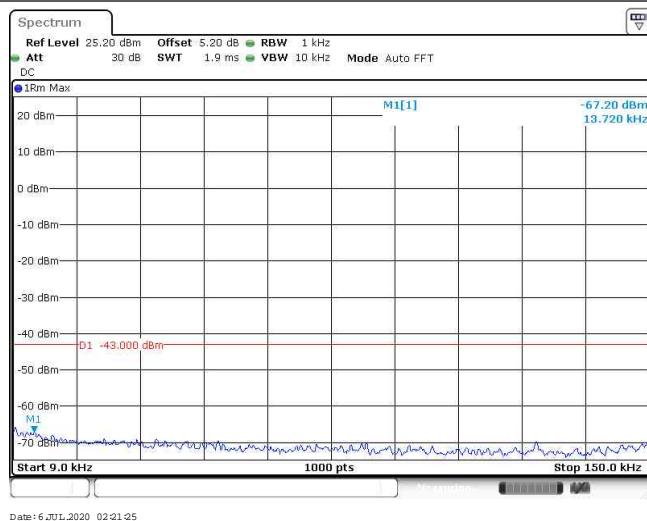
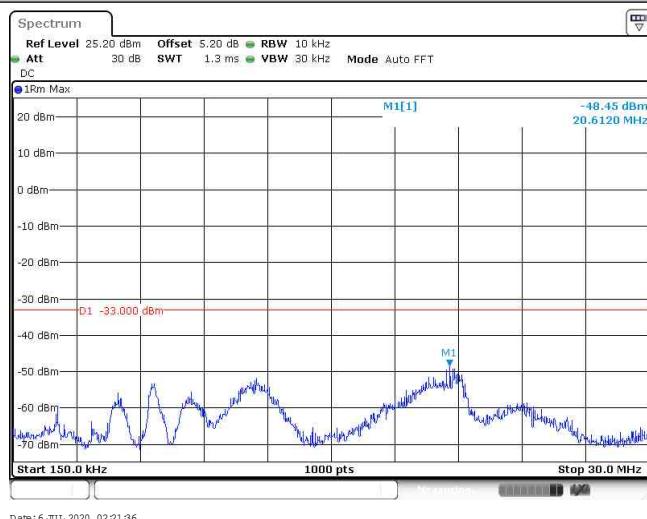
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**Band II\_9400****Band II\_9400**

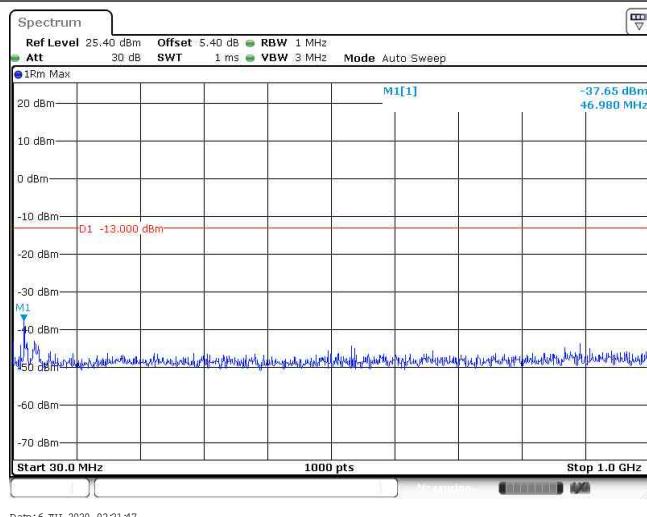
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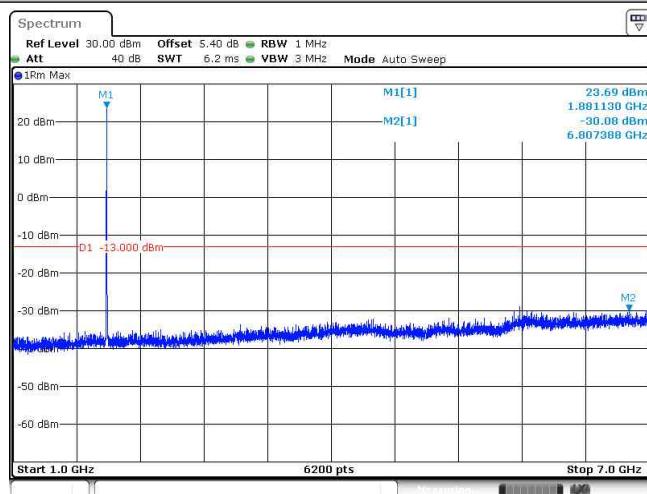


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## Band II\_9400



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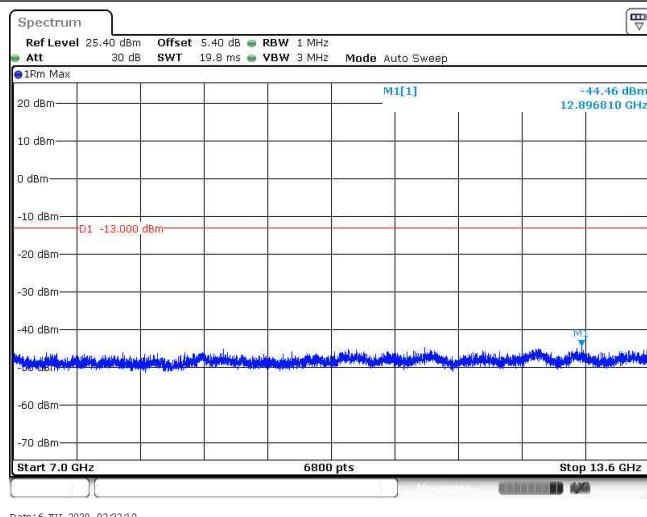
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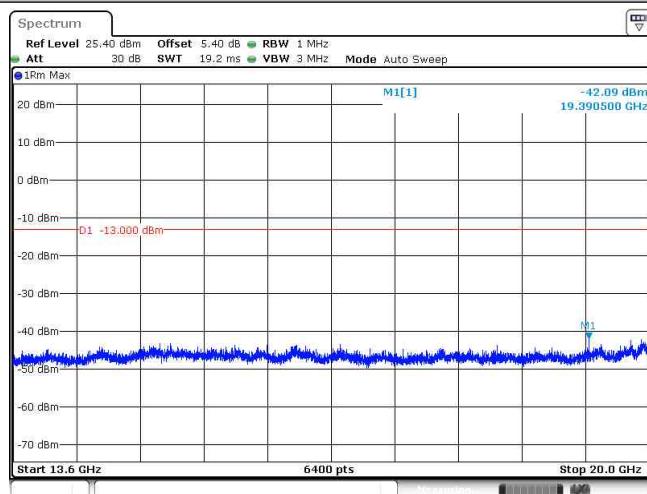


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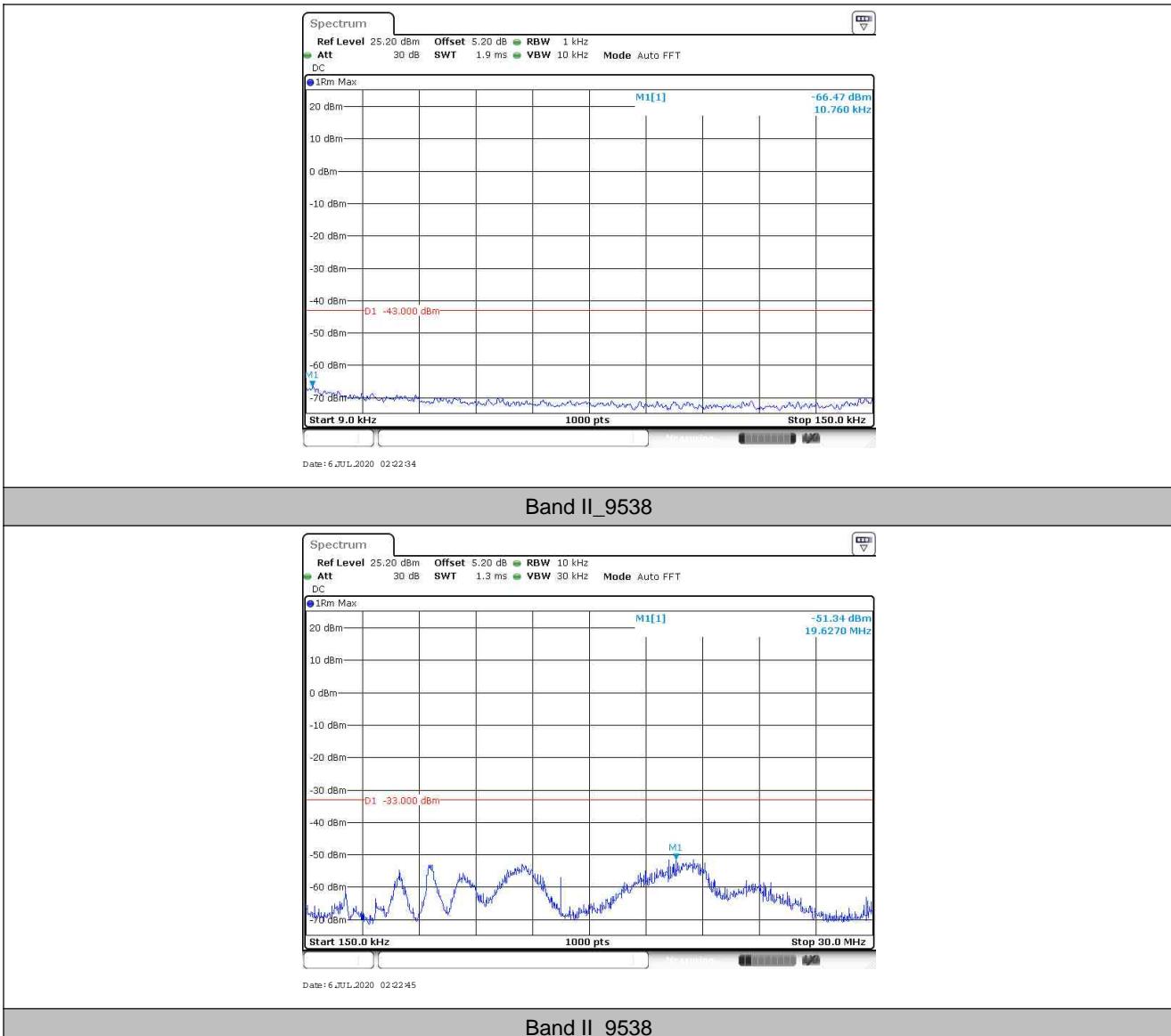


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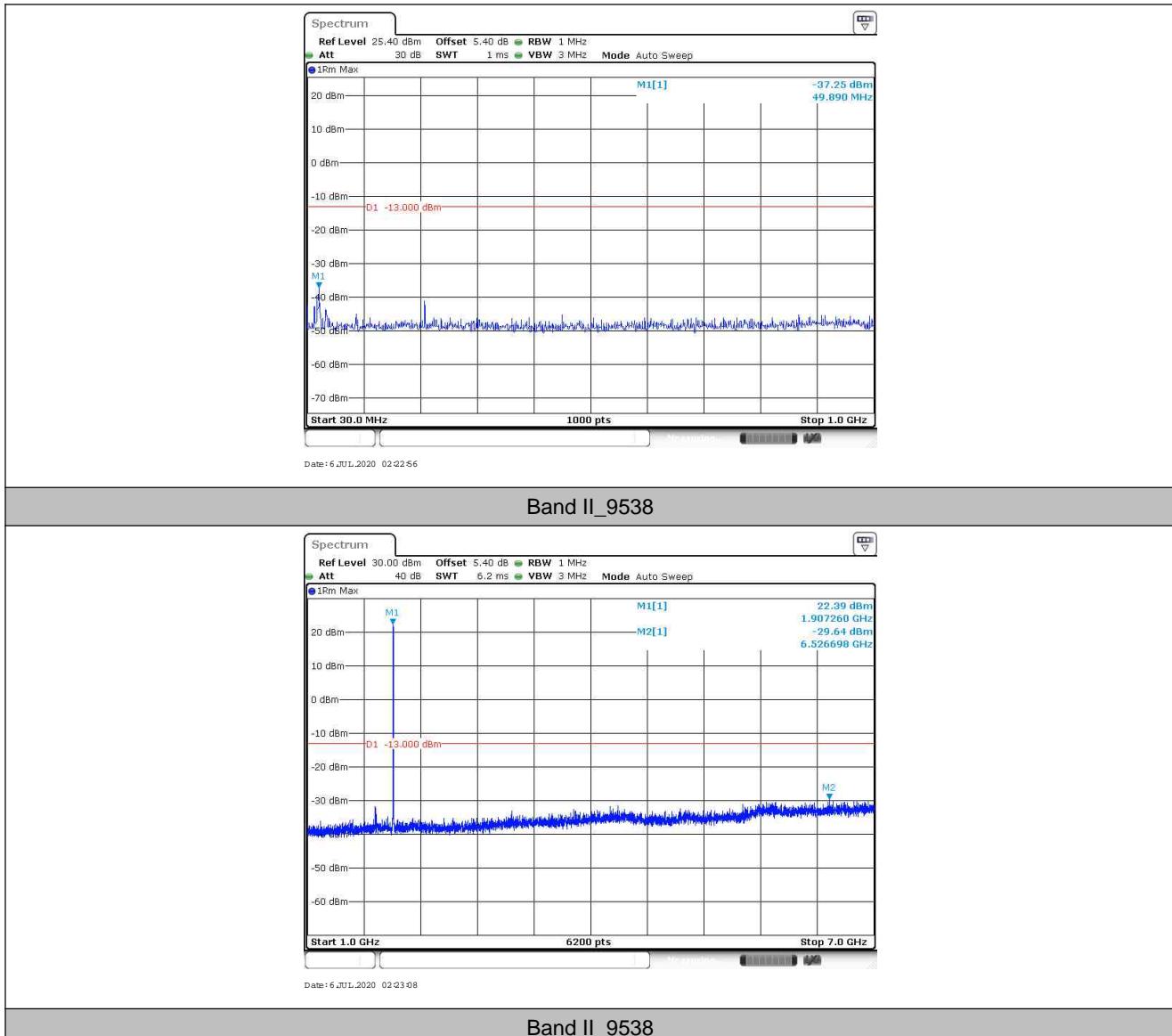
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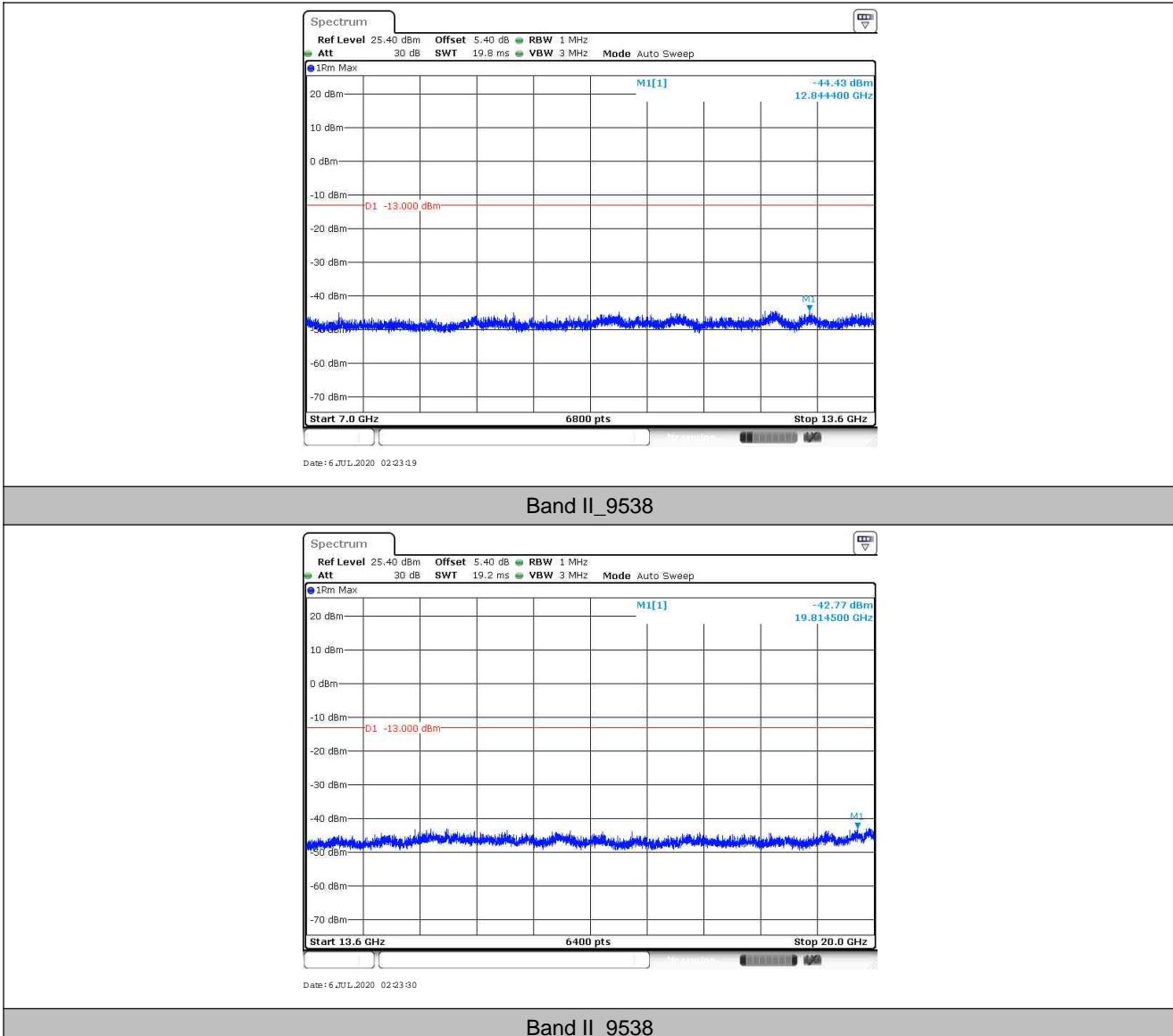
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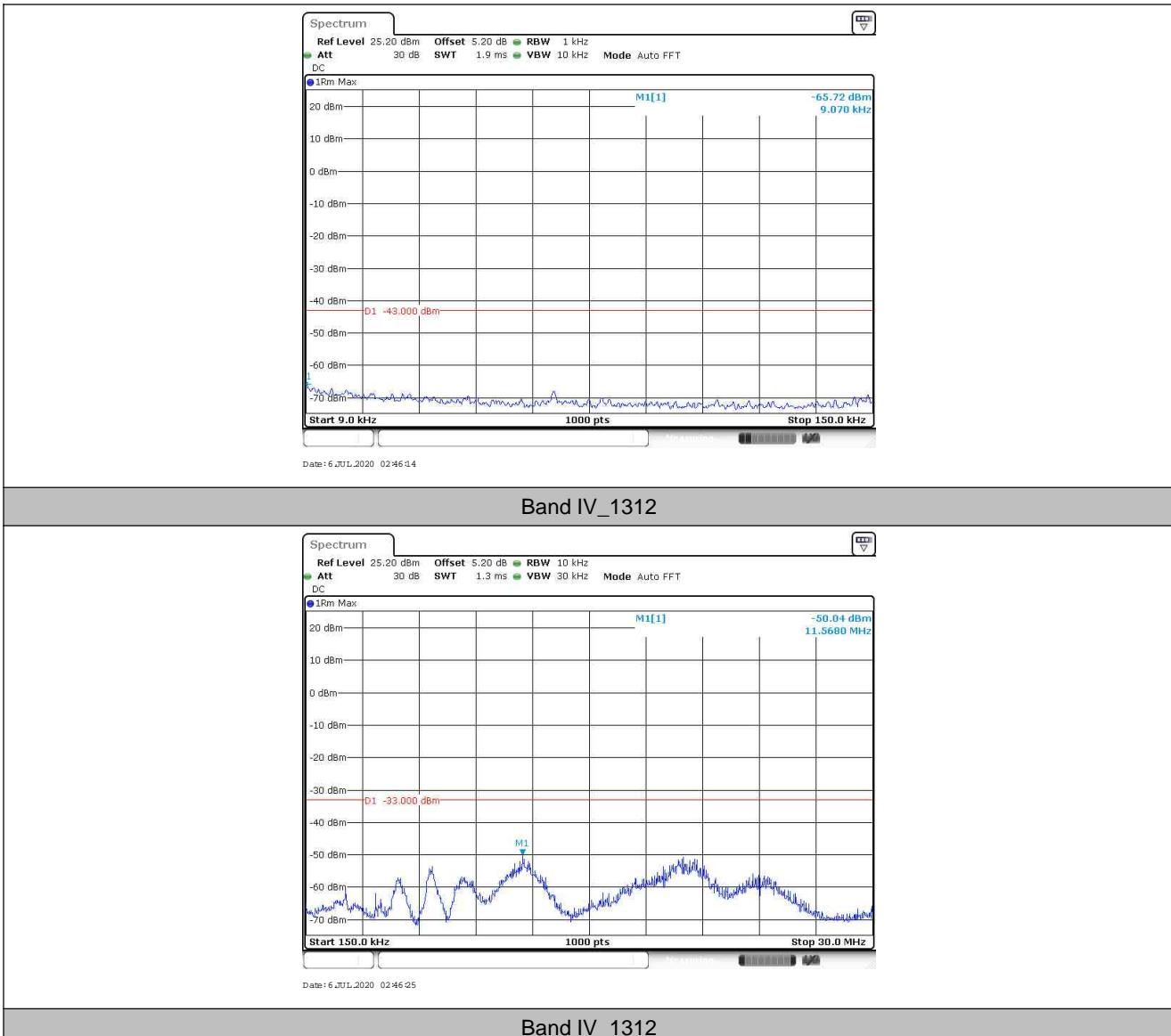
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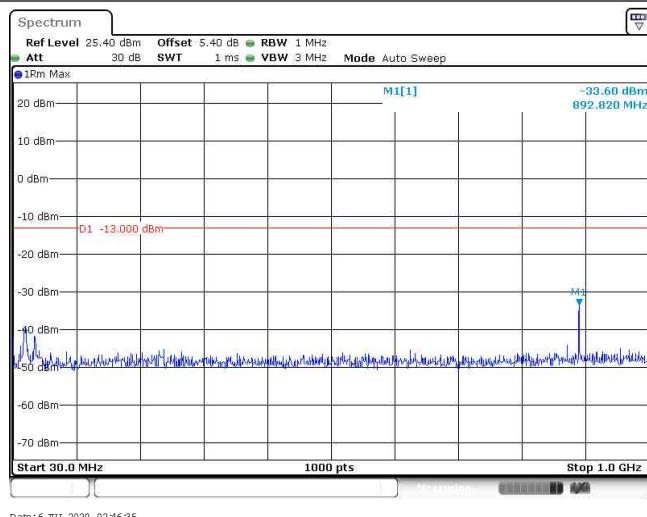


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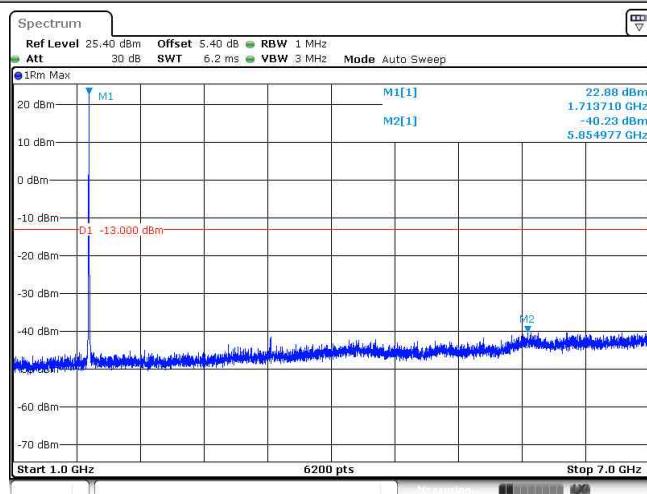
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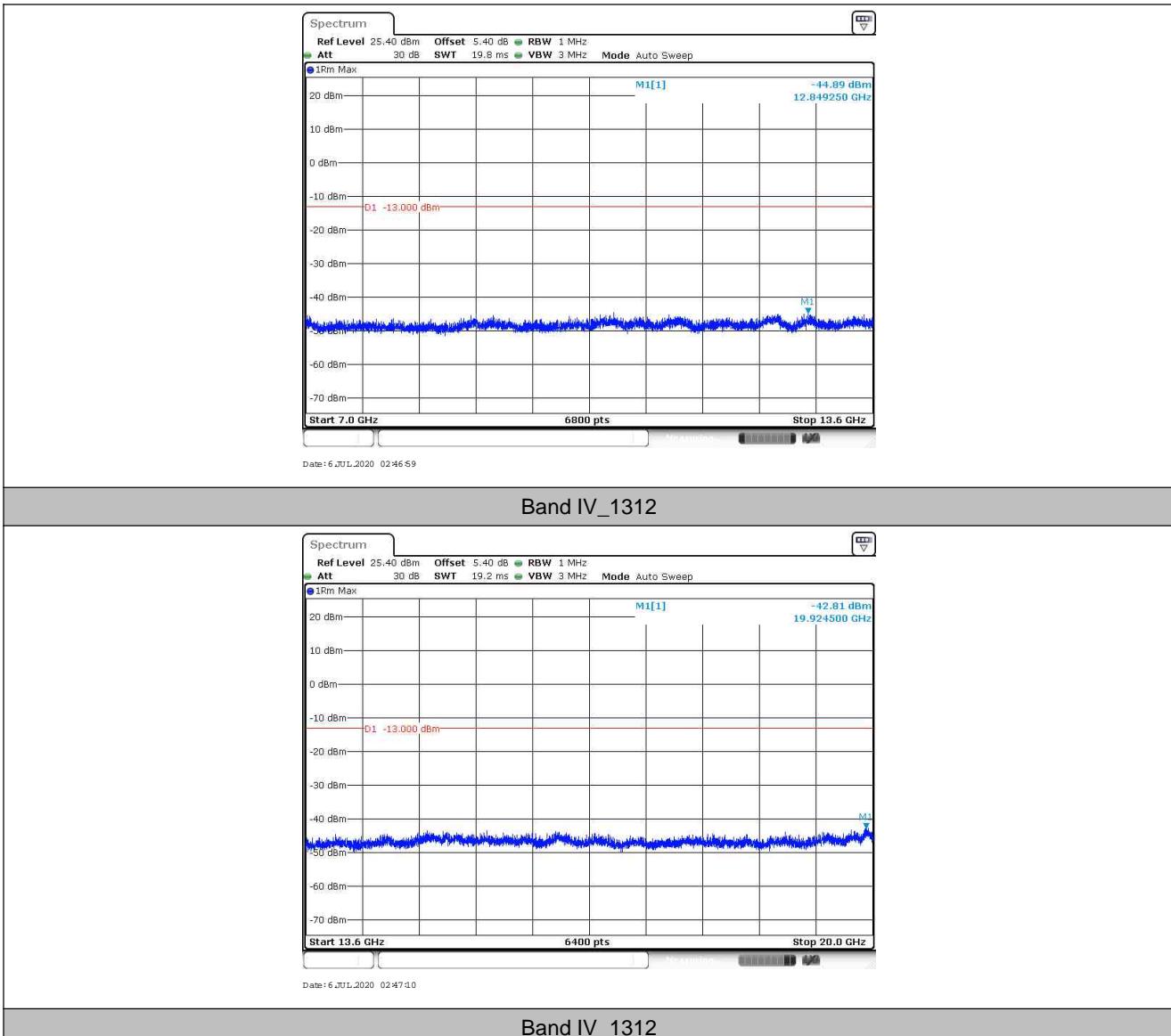
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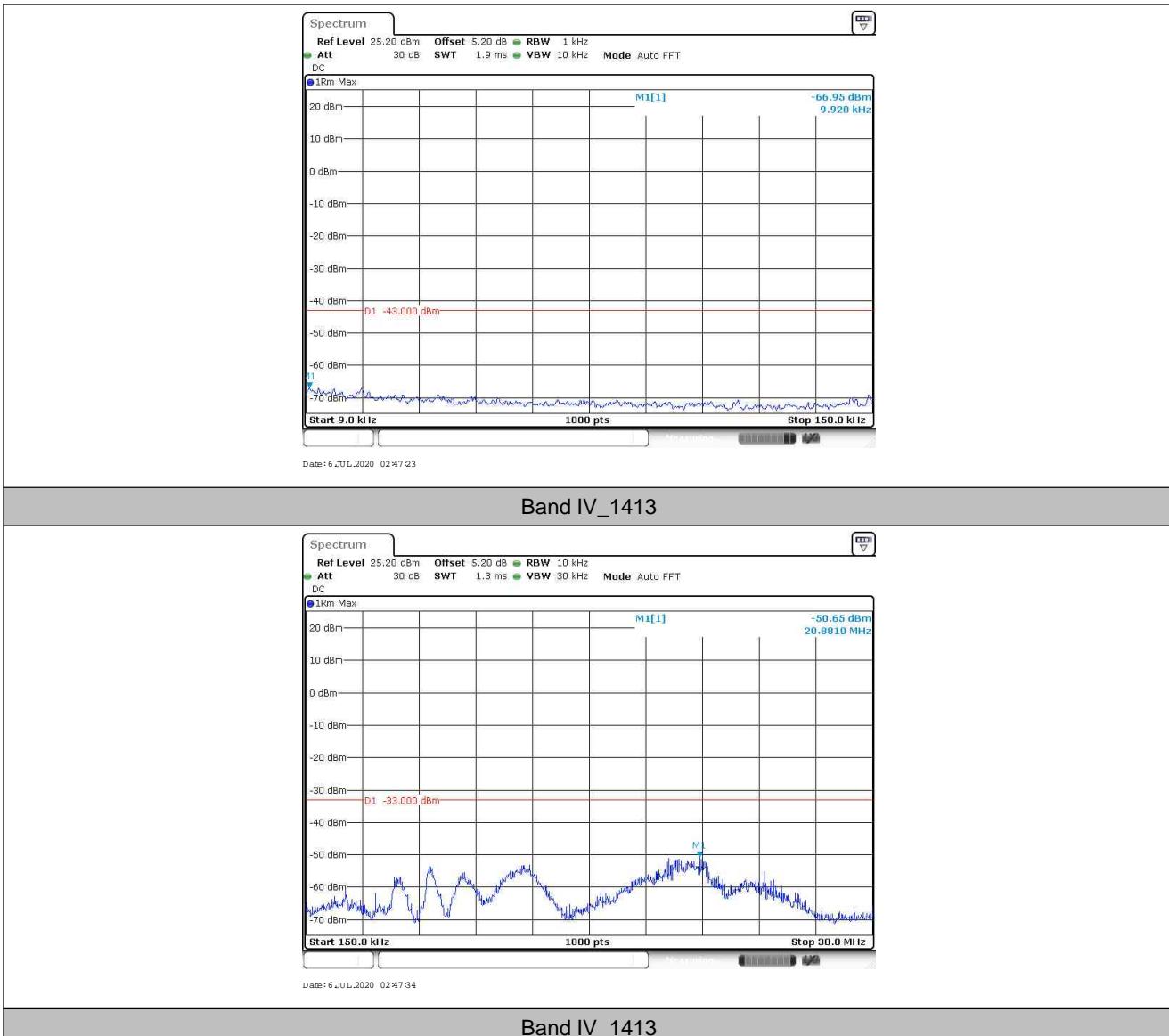


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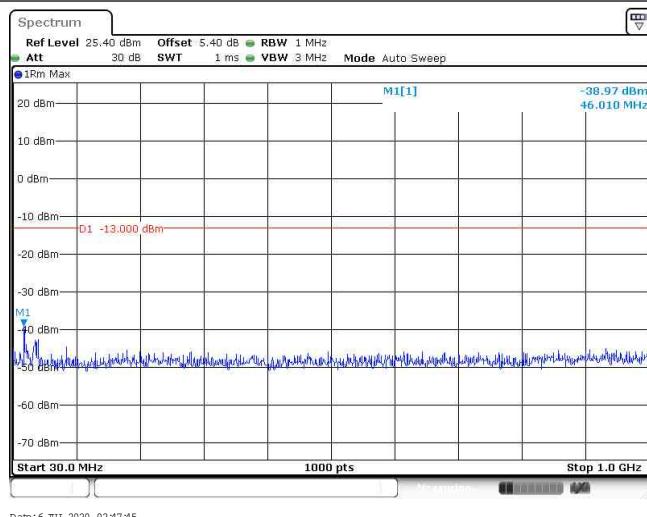


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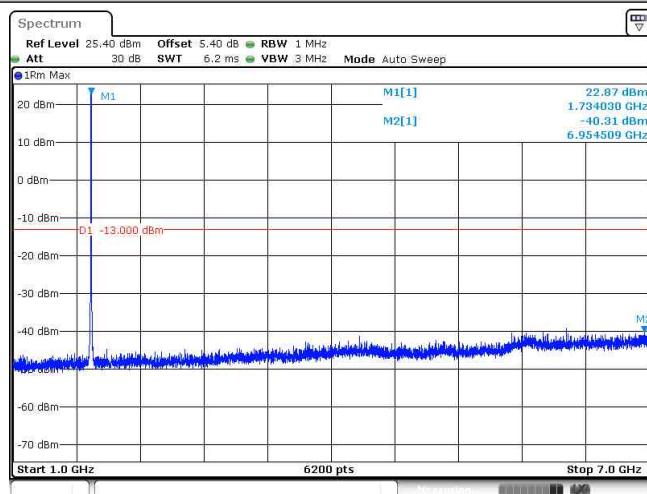


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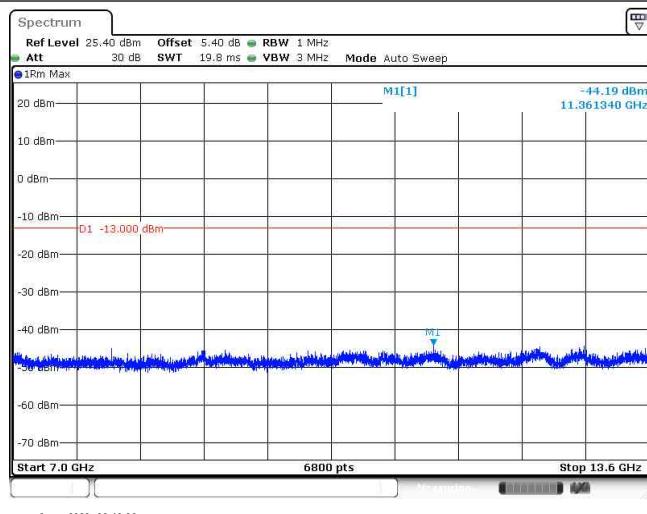
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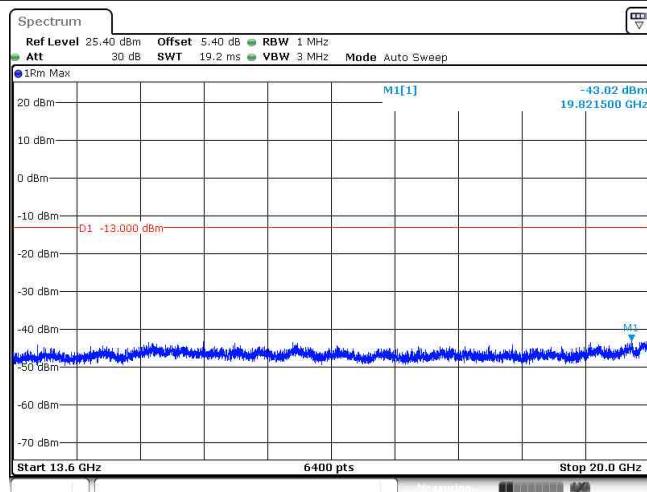


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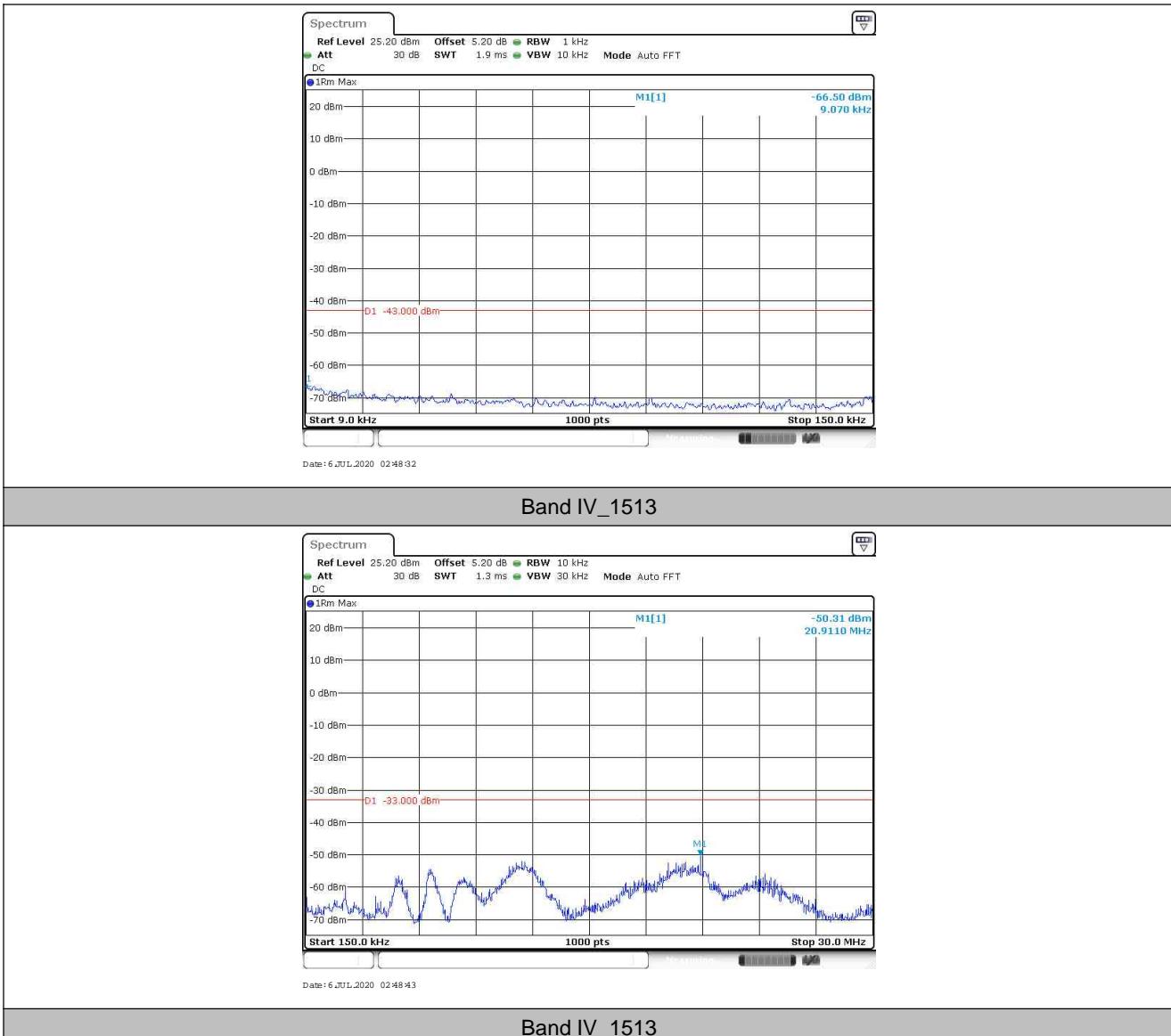
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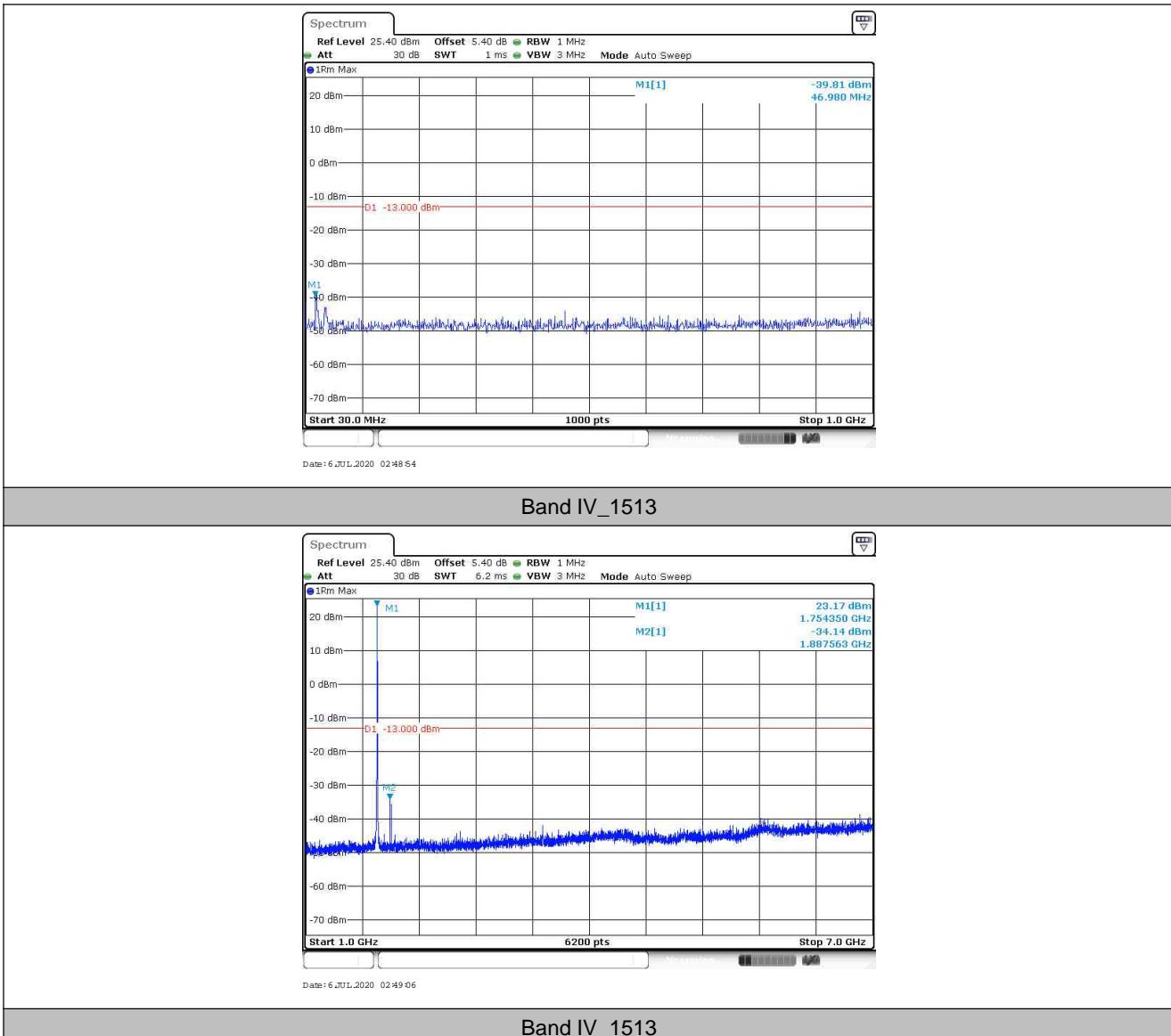
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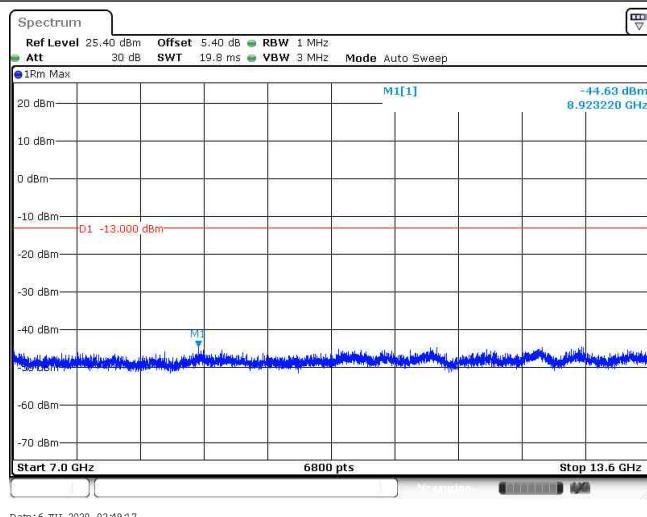
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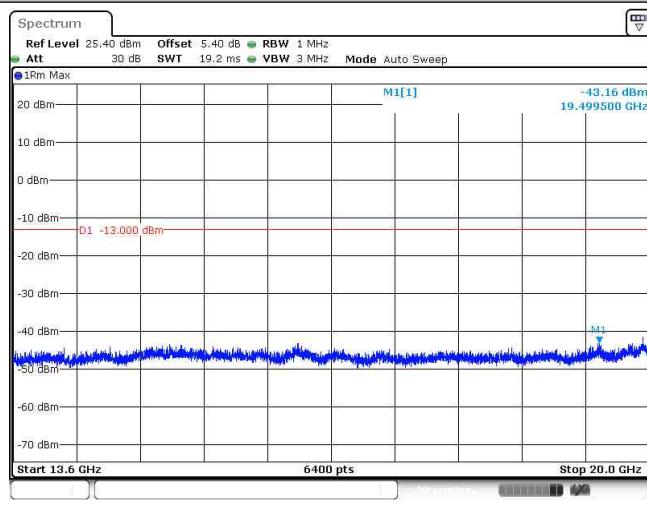


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## Band IV\_1513



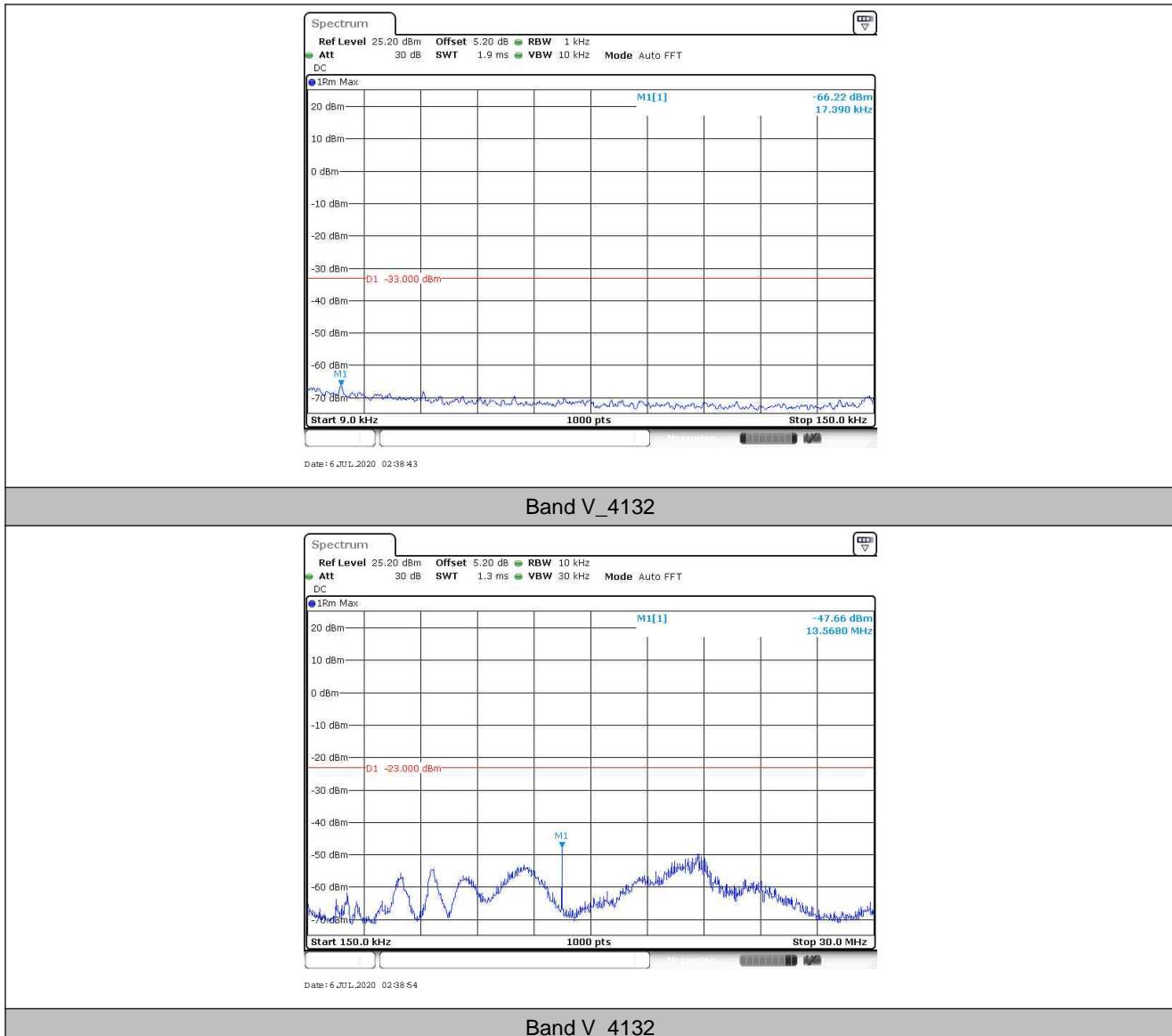
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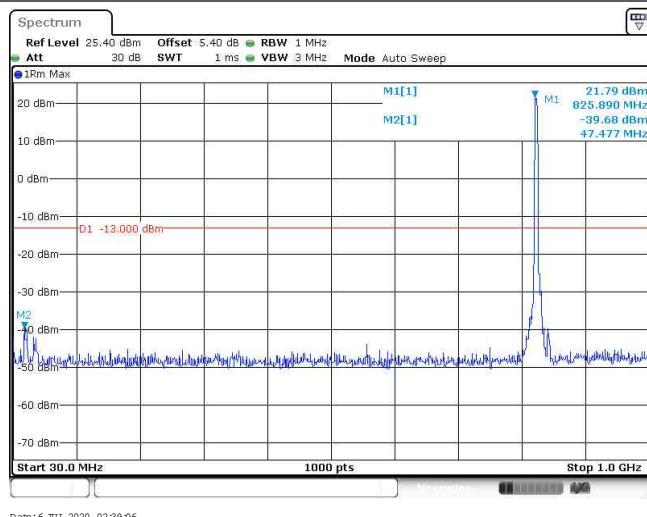
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邮编: 518057

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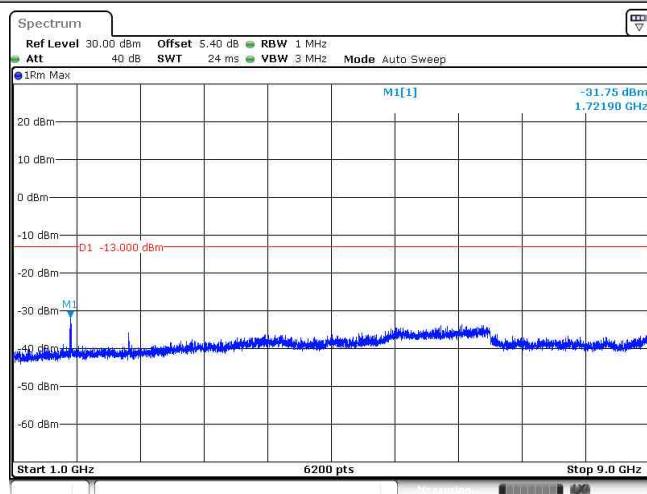
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## Band V\_4132



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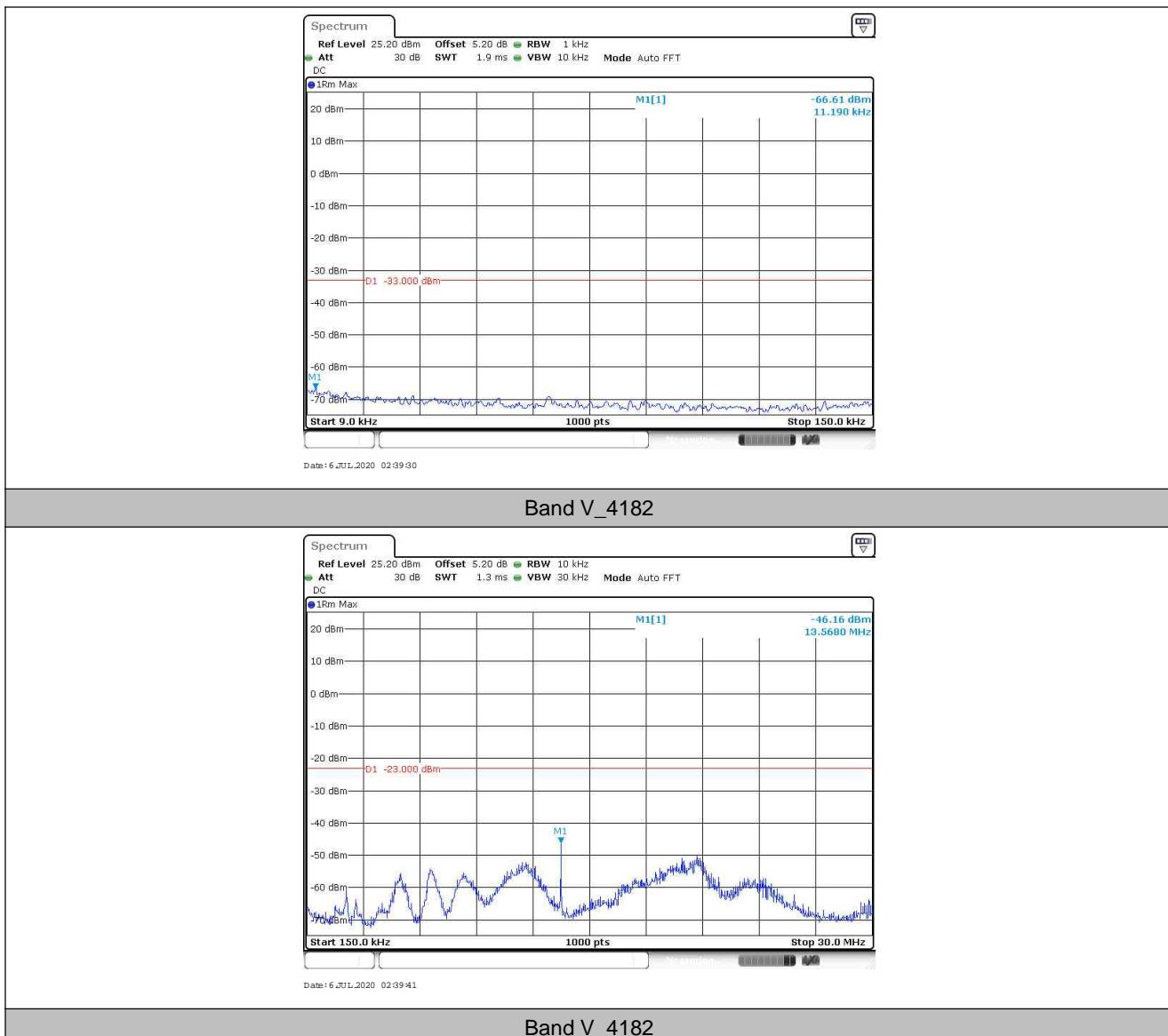
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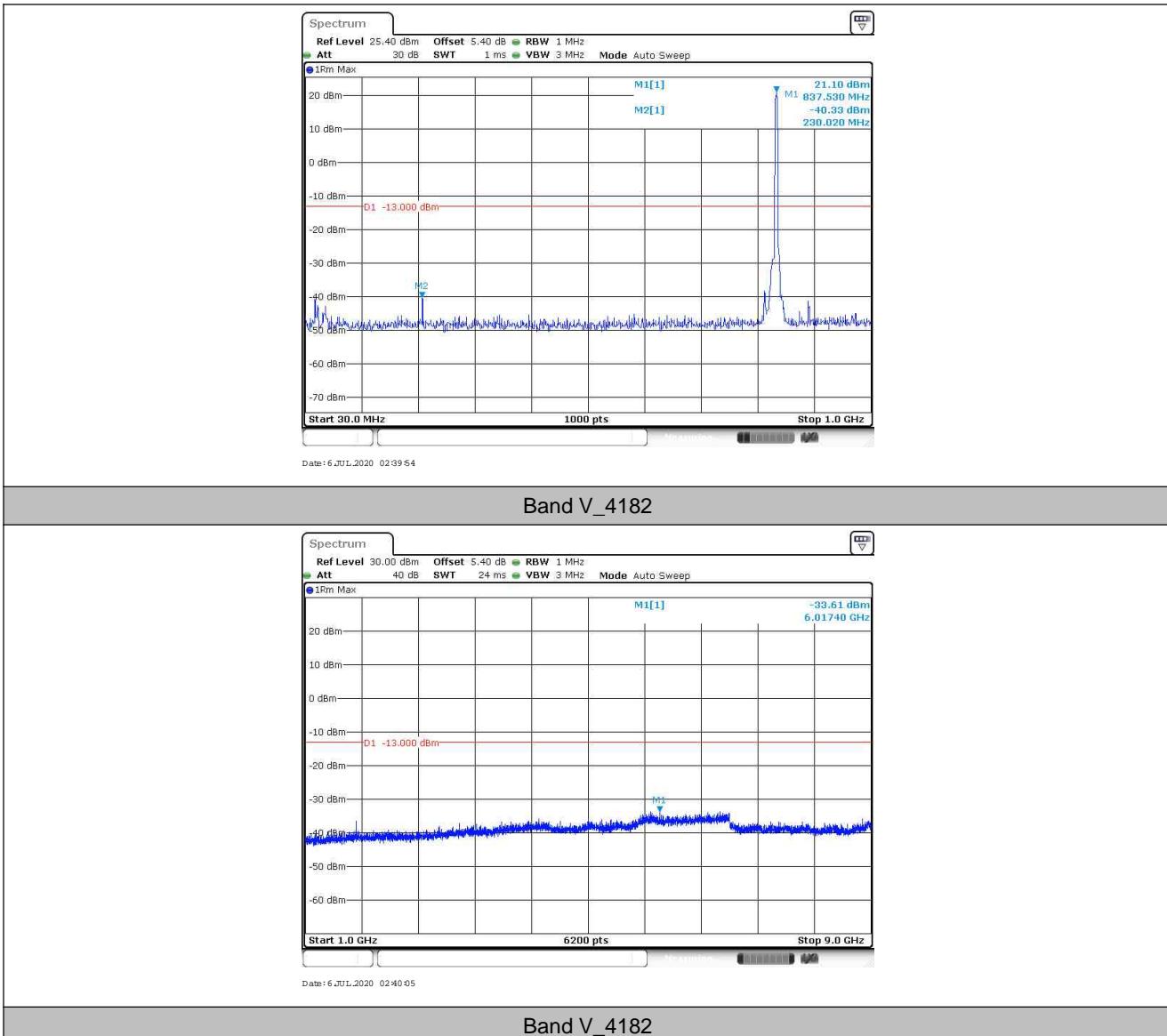


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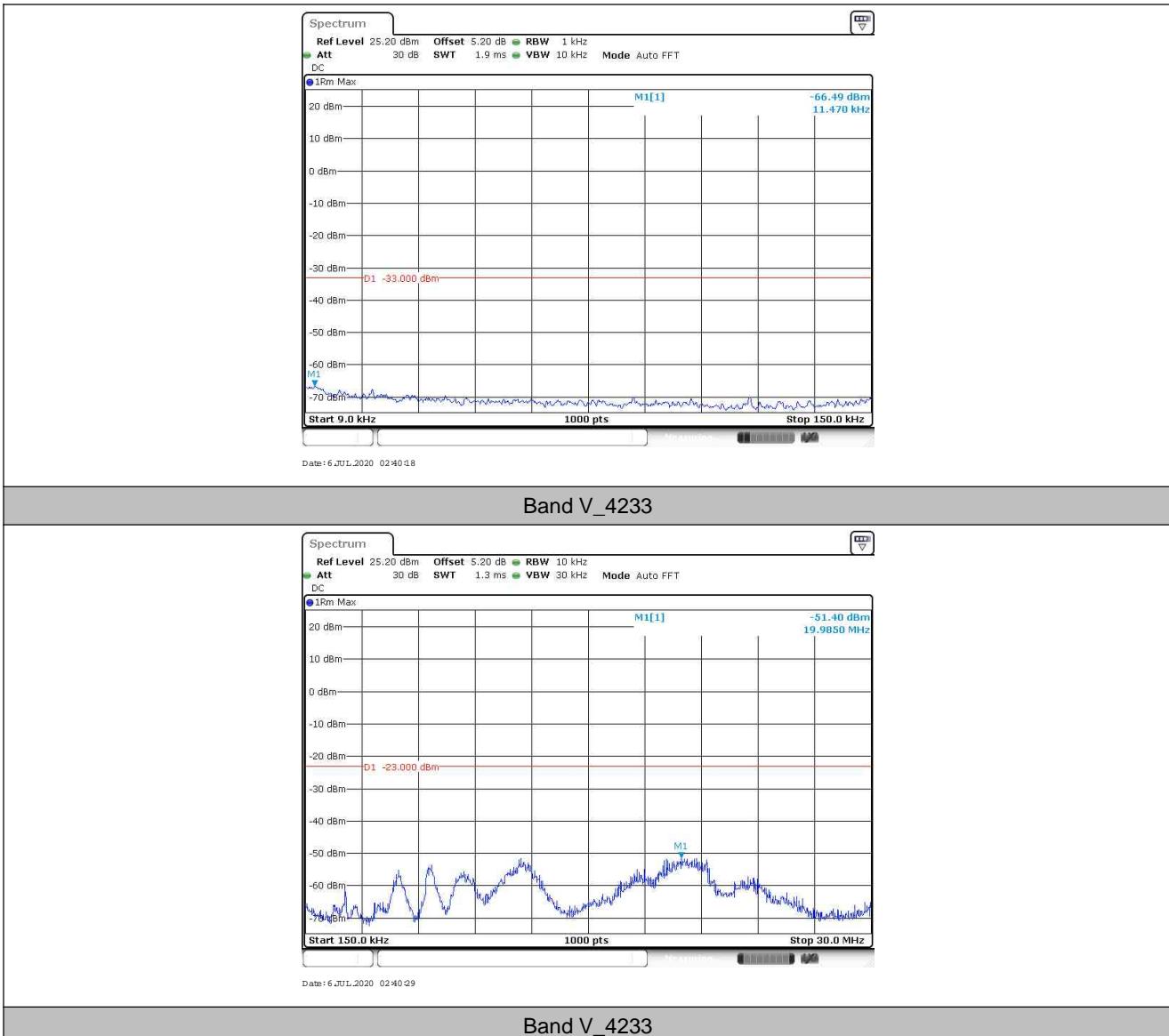


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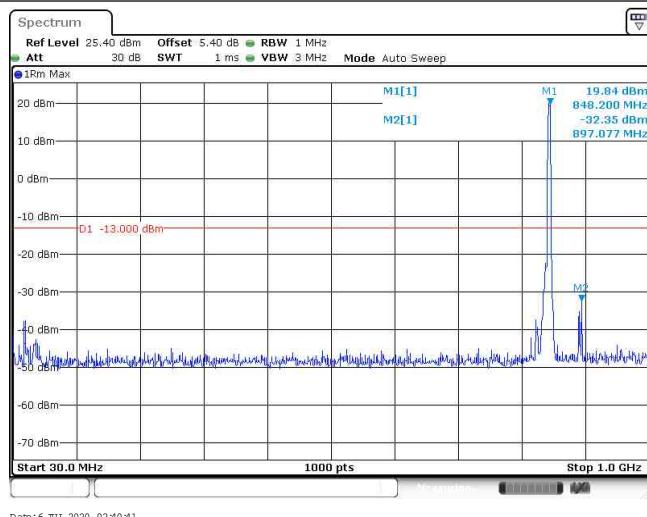


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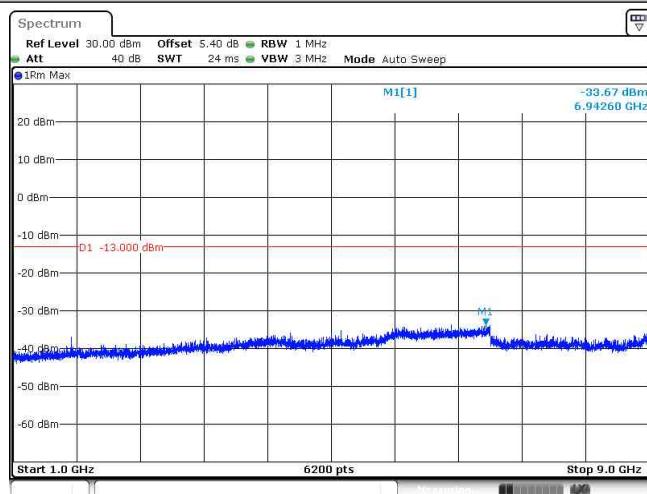
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中国·深圳·科技园中区M-10栋一号厂房  
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t (86-755) 26012053 f (86-755) 26710594  
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## Band V\_4233



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA Band II

#### 7.1.1. Test Mode =WCDMA/TM1

##### 7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
115.3158	-76.31	-13.00	63.31	Vertical
679.0595	-70.66	-13.00	57.66	Vertical
2699.9400	-39.20	-13.00	26.20	Vertical
7379.1460	-55.89	-13.00	42.89	Vertical
14485.8829	-47.51	-13.00	34.51	Vertical
17997.9999	-39.33	-13.00	26.33	Vertical
39.5550	-77.21	-13.00	64.21	Horizontal
576.5738	-72.41	-13.00	59.41	Horizontal
2696.3393	-37.86	-13.00	24.86	Horizontal
3936.0312	-61.36	-13.00	48.36	Horizontal
16387.4462	-43.97	-13.00	30.97	Horizontal
17997.4999	-45.21	-13.00	32.21	Horizontal

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### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.1745	-76.03	-13.00	63.03	Vertical
620.7595	-72.81	-13.00	59.81	Vertical
2685.9372	-38.96	-13.00	25.96	Vertical
7361.6454	-56.05	-13.00	43.05	Vertical
14434.8812	-47.86	-13.00	34.86	Vertical
17999.0000	-39.97	-13.00	26.97	Vertical
42.4166	-77.19	-13.00	64.19	Horizontal
714.0297	-71.39	-13.00	58.39	Horizontal
2699.9400	-37.92	-13.00	24.92	Horizontal
3761.5254	-58.72	-13.00	45.72	Horizontal
9310.7104	-52.71	-13.00	39.71	Horizontal
16397.4466	-43.86	-13.00	30.86	Horizontal

### 7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.9691	-75.86	-13.00	62.86	Vertical
710.1980	-71.28	-13.00	58.28	Vertical
2700.3401	-39.24	-13.00	26.24	Vertical
7358.6453	-55.81	-13.00	42.81	Vertical
14458.3819	-47.96	-13.00	34.96	Vertical
17997.4999	-40.24	-13.00	27.24	Vertical
45.6663	-76.09	-13.00	63.09	Horizontal
617.4614	-72.61	-13.00	59.61	Horizontal
2681.5363	-38.22	-13.00	25.22	Horizontal
7237.6413	-57.74	-13.00	44.74	Horizontal
16389.4463	-43.93	-13.00	30.93	Horizontal
17995.4999	-45.11	-13.00	32.11	Horizontal

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## 7.2. Test Band = WCDMA Band IV

### 7.2.1. Test Mode =WCDMA/TM1

#### 7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
103.7237	-66.56	-13.00	53.56	Vertical
658.8339	-63.36	-13.00	50.36	Vertical
2696.3393	-32.68	-13.00	19.68	Vertical
7312.1437	-53.86	-13.00	40.86	Vertical
14705.3902	-41.94	-13.00	28.94	Vertical
17986.4996	-33.89	-13.00	20.89	Vertical
44.3567	-67.22	-13.00	54.22	Horizontal
582.7336	-63.03	-13.00	50.03	Horizontal
2699.9400	-31.52	-13.00	18.52	Horizontal
3423.0141	-53.94	-13.00	40.94	Horizontal
9264.2088	-50.35	-13.00	37.35	Horizontal
16402.4467	-35.54	-13.00	22.54	Horizontal

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### 7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.7451	-66.41	-13.00	53.41	Vertical
722.4206	-61.65	-13.00	48.65	Vertical
2686.3373	-32.93	-13.00	19.93	Vertical
5195.5732	-56.56	-13.00	43.56	Vertical
14715.3905	-41.95	-13.00	28.95	Vertical
17999.0000	-34.03	-13.00	21.03	Vertical
42.6591	-67.41	-13.00	54.41	Horizontal
559.1615	-64.34	-13.00	51.34	Horizontal
2697.9396	-31.59	-13.00	18.59	Horizontal
3466.5156	-57.18	-13.00	44.18	Horizontal
5195.0732	-52.02	-13.00	39.02	Horizontal
16400.4467	-35.16	-13.00	22.16	Horizontal

### 7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
107.9434	-66.04	-13.00	53.04	Vertical
656.0208	-63.81	-13.00	50.81	Vertical
2703.9408	-32.89	-13.00	19.89	Vertical
7309.1436	-53.81	-13.00	40.81	Vertical
14465.8822	-42.89	-13.00	29.89	Vertical
17994.9998	-33.40	-13.00	20.40	Vertical
39.8945	-67.33	-13.00	54.33	Horizontal
724.7002	-61.84	-13.00	48.84	Horizontal
2697.5395	-31.60	-13.00	18.60	Horizontal
3506.5169	-56.44	-13.00	43.44	Horizontal
5261.0754	-52.22	-13.00	39.22	Horizontal
16394.4465	-35.15	-13.00	22.15	Horizontal

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## 7.3. Test Band = WCDMA Band V

### 7.3.1. Test Mode =WCDMA/TM1

#### 7.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.1585	-83.79	-13.00	70.79	Vertical
114.4912	-75.06	-13.00	62.06	Vertical
2480.2961	-54.08	-13.00	41.08	Vertical
8032.1677	-55.83	-13.00	42.83	Vertical
14496.3832	-47.43	-13.00	34.43	Vertical
17999.0000	-40.19	-13.00	27.19	Vertical
42.4651	-75.86	-13.00	62.86	Horizontal
234.0982	-77.52	-13.00	64.52	Horizontal
1799.7600	-61.06	-13.00	48.06	Horizontal
2702.3405	-51.54	-13.00	38.54	Horizontal
7258.1419	-57.65	-13.00	44.65	Horizontal
16363.4454	-44.06	-13.00	31.06	Horizontal

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### 7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.5650	-85.06	-13.00	72.06	Vertical
113.9092	-75.66	-13.00	62.66	Vertical
384.6497	-78.24	-13.00	65.24	Vertical
2683.1366	-52.96	-13.00	39.96	Vertical
7453.1484	-55.46	-13.00	42.46	Vertical
17997.9999	-40.00	-13.00	27.00	Vertical
39.1185	-76.87	-13.00	63.87	Horizontal
232.6916	-78.00	-13.00	65.00	Horizontal
1817.3635	-60.55	-13.00	47.55	Horizontal
2701.9404	-51.45	-13.00	38.45	Horizontal
7471.1490	-56.52	-13.00	43.52	Horizontal
16392.9464	-43.80	-13.00	30.80	Horizontal

### 7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.3710	-84.61	-13.00	71.61	Vertical
110.3200	-76.23	-13.00	63.23	Vertical
1699.7399	-62.13	-13.00	49.13	Vertical
2997.9996	-52.34	-13.00	39.34	Vertical
7453.1484	-55.68	-13.00	42.68	Vertical
17997.4999	-40.22	-13.00	27.22	Vertical
44.5507	-75.69	-13.00	62.69	Horizontal
234.2922	-78.38	-13.00	65.38	Horizontal
1747.3495	-62.77	-13.00	49.77	Horizontal
2537.1074	-51.52	-13.00	38.52	Horizontal
7448.1483	-56.37	-13.00	43.37	Horizontal
16393.9465	-43.84	-13.00	30.84	Horizontal

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- 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
Band II	9262	VL	TN	3.21	0.001733	±2.5	PASS
Band II	9262	VN	TN	8.27	0.004464	±2.5	PASS
Band II	9262	VH	TN	4.71	0.002541	±2.5	PASS
Band II	9400	VL	TN	8.19	0.004357	±2.5	PASS
Band II	9400	VN	TN	0.81	0.000433	±2.5	PASS
Band II	9400	VH	TN	-12.65	-0.006727	±2.5	PASS
Band II	9538	VL	TN	-0.82	-0.000427	±2.5	PASS
Band II	9538	VN	TN	4.81	0.002521	±2.5	PASS
Band II	9538	VH	TN	-7.32	-0.003840	±2.5	PASS
Band IV	1312	VL	TN	-10.24	-0.005983	±2.5	PASS
Band IV	1312	VN	TN	-1.85	-0.001080	±2.5	PASS
Band IV	1312	VH	TN	-14.89	-0.008693	±2.5	PASS
Band IV	1413	VL	TN	7.78	0.004491	±2.5	PASS
Band IV	1413	VN	TN	9.67	0.005582	±2.5	PASS
Band IV	1413	VH	TN	11.39	0.006577	±2.5	PASS
Band IV	1513	VL	TN	5.76	0.003286	±2.5	PASS
Band IV	1513	VN	TN	-12.20	-0.006961	±2.5	PASS
Band IV	1513	VH	TN	-5.40	-0.003083	±2.5	PASS
Band V	4132	VL	TN	-3.81	-0.004608	±2.5	PASS
Band V	4132	VN	TN	-10.41	-0.012595	±2.5	PASS
Band V	4132	VH	TN	11.33	0.013708	±2.5	PASS
Band V	4182	VL	TN	-11.59	-0.013857	±2.5	PASS
Band V	4182	VN	TN	4.42	0.005283	±2.5	PASS
Band V	4182	VH	TN	0.34	0.000409	±2.5	PASS
Band V	4233	VL	TN	-3.82	-0.004514	±2.5	PASS
Band V	4233	VN	TN	1.35	0.001595	±2.5	PASS
Band V	4233	VH	TN	7.86	0.009280	±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
Band II	9262	VN	-30	4.56	0.002462	±2.5	PASS
Band II	9262	VN	-20	7.22	0.003895	±2.5	PASS
Band II	9262	VN	-10	10.82	0.005844	±2.5	PASS
Band II	9262	VN	0	-6.30	-0.003399	±2.5	PASS
Band II	9262	VN	10	11.60	0.006260	±2.5	PASS
Band II	9262	VN	20	5.84	0.003153	±2.5	PASS
Band II	9262	VN	30	-5.14	-0.002777	±2.5	PASS
Band II	9262	VN	40	-14.28	-0.007707	±2.5	PASS
Band II	9262	VN	50	10.69	0.005770	±2.5	PASS
Band II	9400	VN	-30	-14.28	-0.007598	±2.5	PASS
Band II	9400	VN	-20	-10.90	-0.005797	±2.5	PASS
Band II	9400	VN	-10	-0.26	-0.000137	±2.5	PASS
Band II	9400	VN	0	10.65	0.005665	±2.5	PASS
Band II	9400	VN	10	7.55	0.004018	±2.5	PASS
Band II	9400	VN	20	8.55	0.004548	±2.5	PASS
Band II	9400	VN	30	-8.03	-0.004273	±2.5	PASS
Band II	9400	VN	40	-6.68	-0.003552	±2.5	PASS
Band II	9400	VN	50	-7.14	-0.003798	±2.5	PASS
Band II	9538	VN	-30	8.32	0.004361	±2.5	PASS
Band II	9538	VN	-20	-3.51	-0.001838	±2.5	PASS
Band II	9538	VN	-10	-6.37	-0.003341	±2.5	PASS
Band II	9538	VN	0	2.18	0.001141	±2.5	PASS
Band II	9538	VN	10	-13.05	-0.006842	±2.5	PASS
Band II	9538	VN	20	-3.13	-0.001640	±2.5	PASS
Band II	9538	VN	30	-3.65	-0.001915	±2.5	PASS
Band II	9538	VN	40	-2.64	-0.001386	±2.5	PASS
Band II	9538	VN	50	-11.80	-0.006184	±2.5	PASS
Band IV	1312	VN	-30	-4.77	-0.002784	±2.5	PASS
Band IV	1312	VN	-20	10.10	0.005899	±2.5	PASS
Band IV	1312	VN	-10	4.87	0.002842	±2.5	PASS
Band IV	1312	VN	0	-3.07	-0.001793	±2.5	PASS
Band IV	1312	VN	10	14.26	0.008325	±2.5	PASS

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Band IV	1312	VN	20	-11.88	-0.006937	±2.5	PASS
Band IV	1312	VN	30	7.87	0.004596	±2.5	PASS
Band IV	1312	VN	40	-13.00	-0.007593	±2.5	PASS
Band IV	1312	VN	50	-12.11	-0.007073	±2.5	PASS
Band IV	1413	VN	-30	-7.60	-0.004385	±2.5	PASS
Band IV	1413	VN	-20	2.09	0.001208	±2.5	PASS
Band IV	1413	VN	-10	11.69	0.006748	±2.5	PASS
Band IV	1413	VN	0	-8.71	-0.005028	±2.5	PASS
Band IV	1413	VN	10	-1.49	-0.000859	±2.5	PASS
Band IV	1413	VN	20	4.17	0.002408	±2.5	PASS
Band IV	1413	VN	30	-9.87	-0.005696	±2.5	PASS
Band IV	1413	VN	40	8.44	0.004869	±2.5	PASS
Band IV	1413	VN	50	5.45	0.003148	±2.5	PASS
Band IV	1513	VN	-30	-10.17	-0.005801	±2.5	PASS
Band IV	1513	VN	-20	13.89	0.007923	±2.5	PASS
Band IV	1513	VN	-10	14.69	0.008380	±2.5	PASS
Band IV	1513	VN	0	-4.63	-0.002640	±2.5	PASS
Band IV	1513	VN	10	-10.17	-0.005801	±2.5	PASS
Band IV	1513	VN	20	11.38	0.006492	±2.5	PASS
Band IV	1513	VN	30	-4.09	-0.002333	±2.5	PASS
Band IV	1513	VN	40	-5.19	-0.002962	±2.5	PASS
Band IV	1513	VN	50	-4.66	-0.002656	±2.5	PASS
Band V	4132	VN	-30	11.82	0.014298	±2.5	PASS
Band V	4132	VN	-20	-1.96	-0.002377	±2.5	PASS
Band V	4132	VN	-10	-3.34	-0.004038	±2.5	PASS
Band V	4132	VN	0	14.43	0.017462	±2.5	PASS
Band V	4132	VN	10	-1.71	-0.002075	±2.5	PASS
Band V	4132	VN	20	10.94	0.013237	±2.5	PASS
Band V	4132	VN	30	7.69	0.009309	±2.5	PASS
Band V	4132	VN	40	5.02	0.006078	±2.5	PASS
Band V	4132	VN	50	-14.78	-0.017880	±2.5	PASS
Band V	4182	VN	-30	5.18	0.006190	±2.5	PASS
Band V	4182	VN	-20	-9.27	-0.011086	±2.5	PASS
Band V	4182	VN	-10	-2.22	-0.002652	±2.5	PASS
Band V	4182	VN	0	-3.74	-0.004472	±2.5	PASS
Band V	4182	VN	10	9.68	0.011571	±2.5	PASS
Band V	4182	VN	20	12.85	0.015366	±2.5	PASS

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Band V	4182	VN	30	2.94	0.003511	±2.5	PASS
Band V	4182	VN	40	-7.30	-0.008730	±2.5	PASS
Band V	4182	VN	50	3.06	0.003660	±2.5	PASS
Band V	4233	VN	-30	-5.02	-0.005926	±2.5	PASS
Band V	4233	VN	-20	8.78	0.010372	±2.5	PASS
Band V	4233	VN	-10	-1.05	-0.001243	±2.5	PASS
Band V	4233	VN	0	14.02	0.016555	±2.5	PASS
Band V	4233	VN	10	5.05	0.005967	±2.5	PASS
Band V	4233	VN	20	9.91	0.011709	±2.5	PASS
Band V	4233	VN	30	8.81	0.010409	±2.5	PASS
Band V	4233	VN	40	2.27	0.002682	±2.5	PASS
Band V	4233	VN	50	-5.28	-0.006239	±2.5	PASS

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