

# Appendix B

## WCDMA Band II & V



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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

Band	Channel	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band2	9262	23.23	23.93	33	PASS
Band2	9400	23.18	23.88	33	PASS
Band2	9538	23.23	23.93	33	PASS

Band	Channel	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band5	4132	23.77	21.52	38.45	PASS
Band5	4182	23.83	21.58	38.45	PASS
Band5	4233	23.94	21.69	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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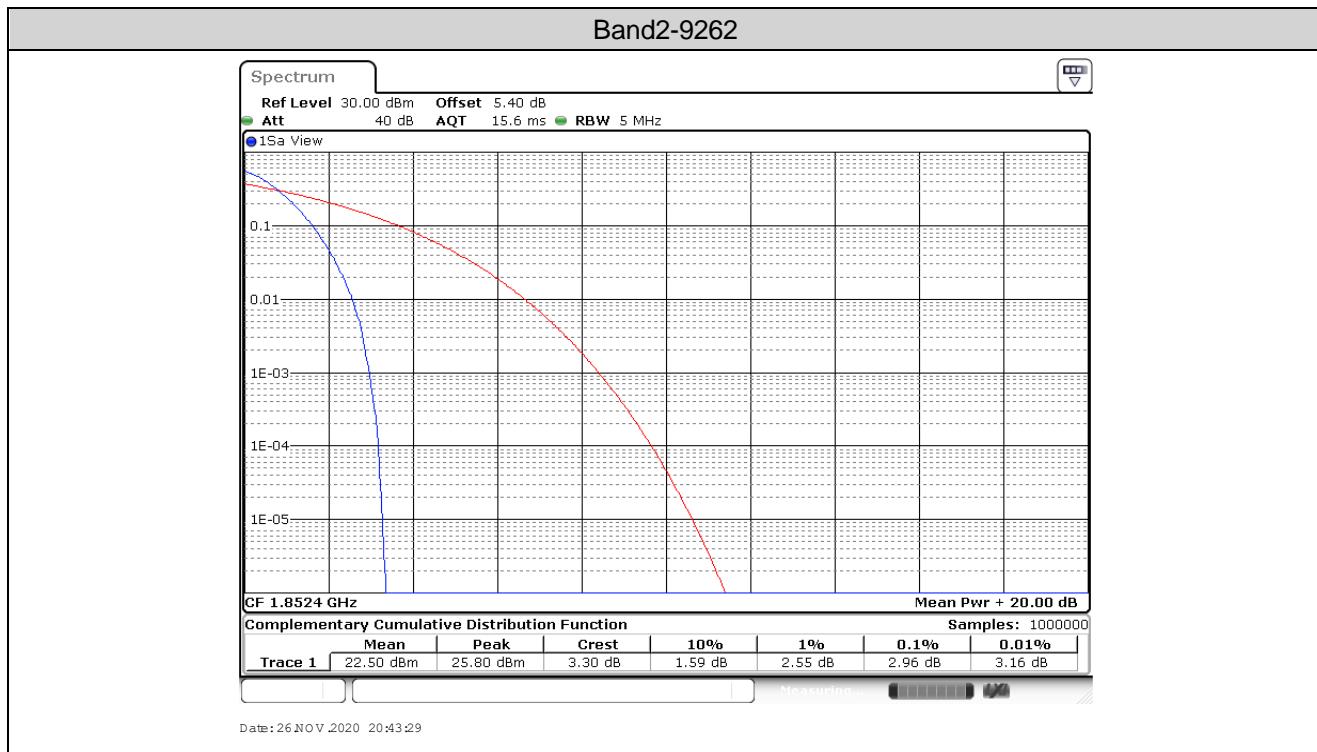
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.96	13	PASS
Band2	9400	3.04	13	PASS
Band2	9538	2.99	13	PASS
Band5	4132	3.13	13	PASS
Band5	4182	2.99	13	PASS
Band5	4233	3.07	13	PASS

### 2.2. Test Plots



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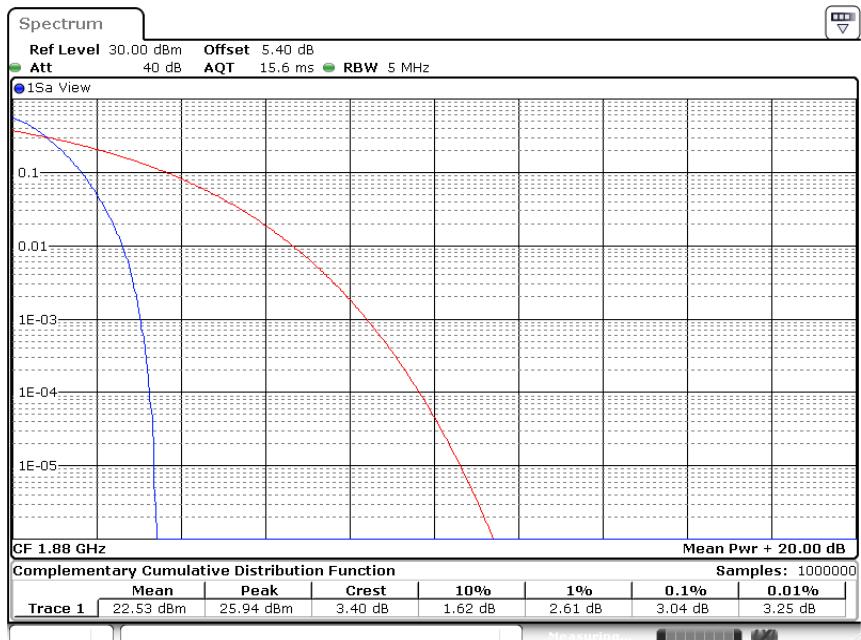
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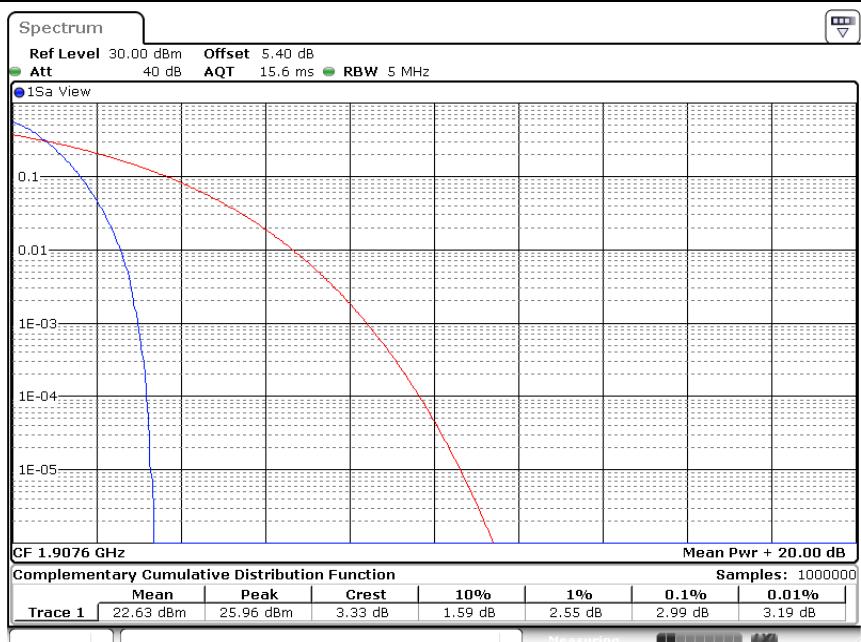
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## Band2-9400



Date: 26 NOV 2020 20:43:44

## Band2-9538



Date: 26 NOV 2020 20:43:59

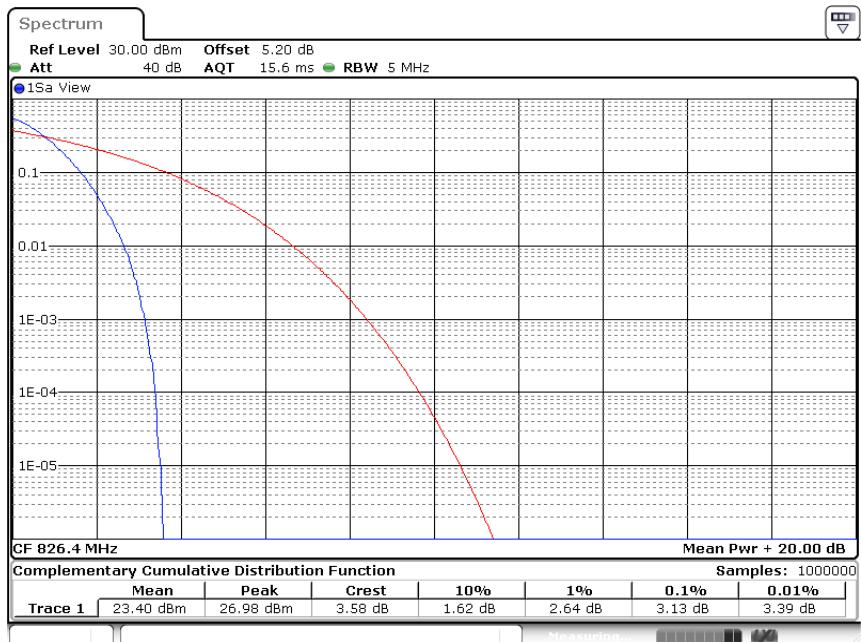
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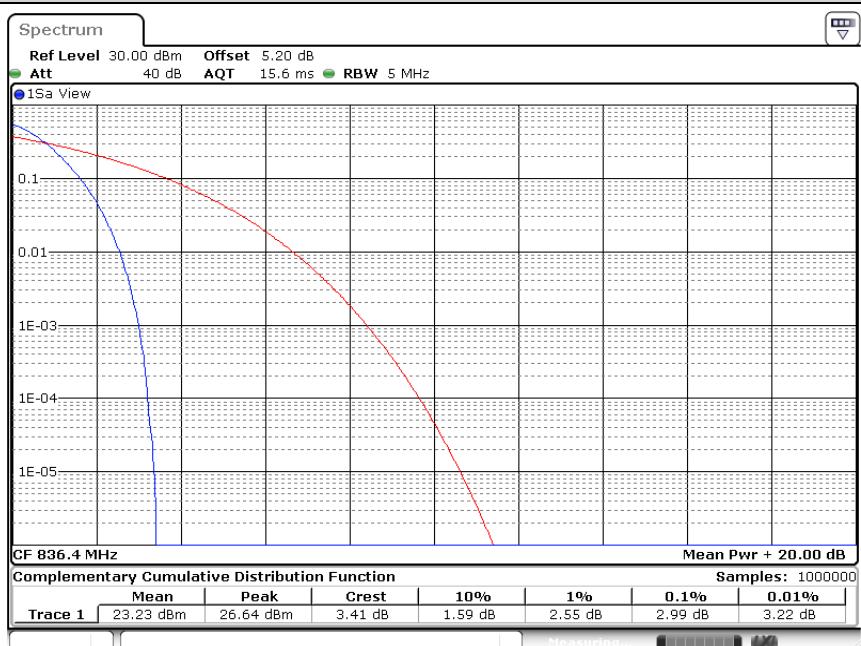
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## Band5-4132



Date: 26 NOV 2020 21:02:20

## Band5-4182



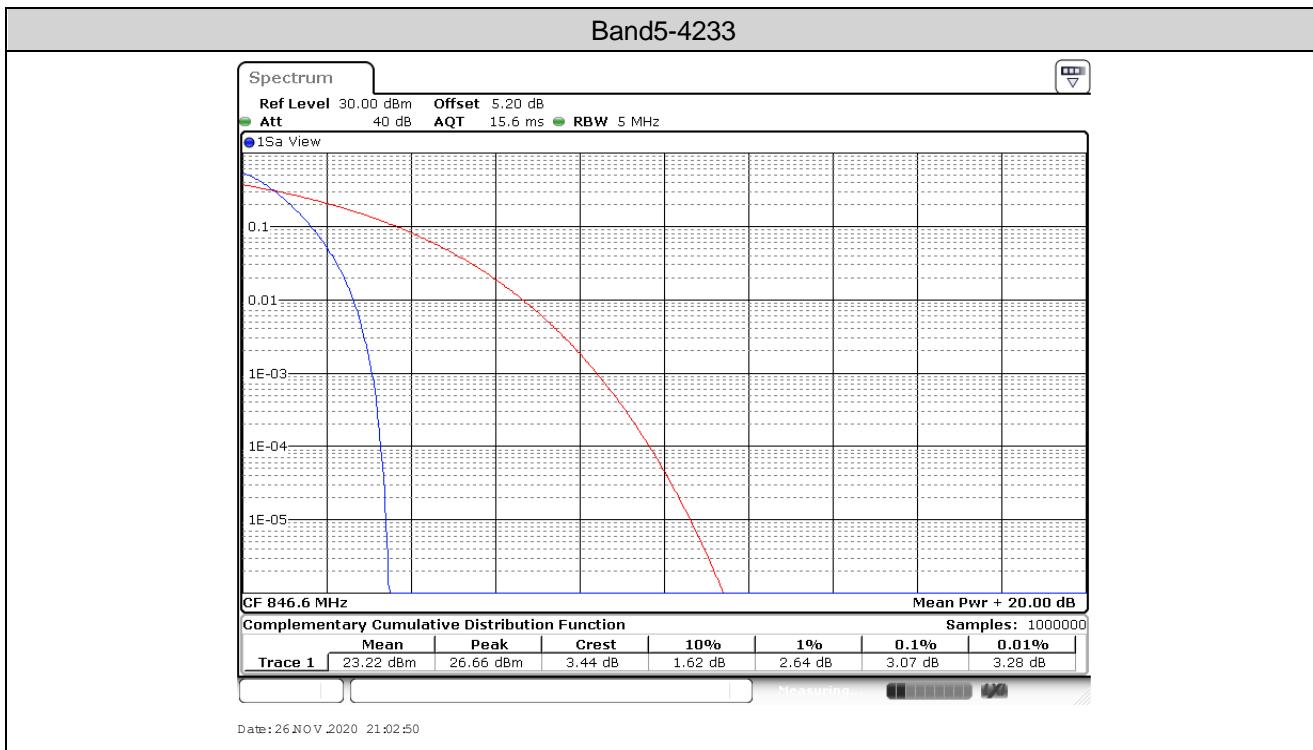
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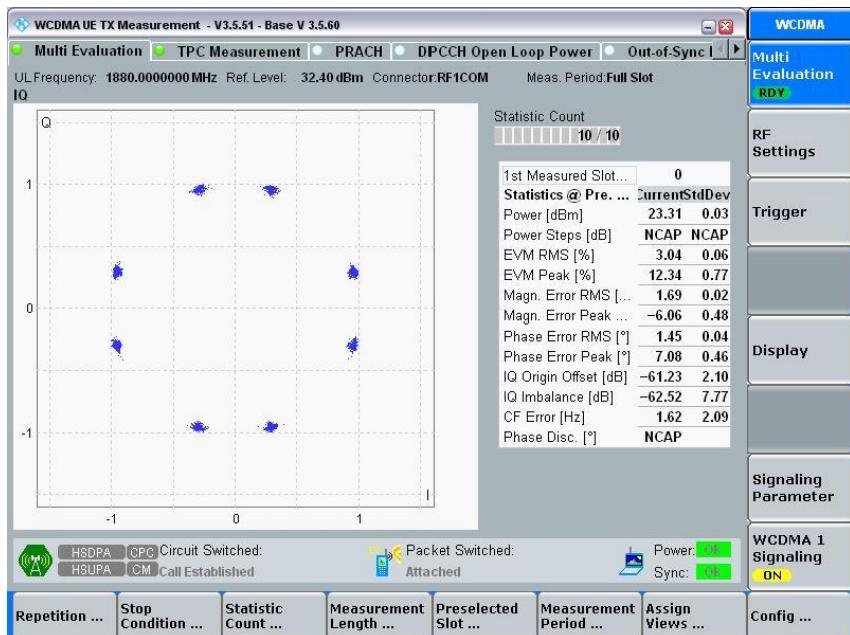
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### 3. Modulation Characteristics

#### 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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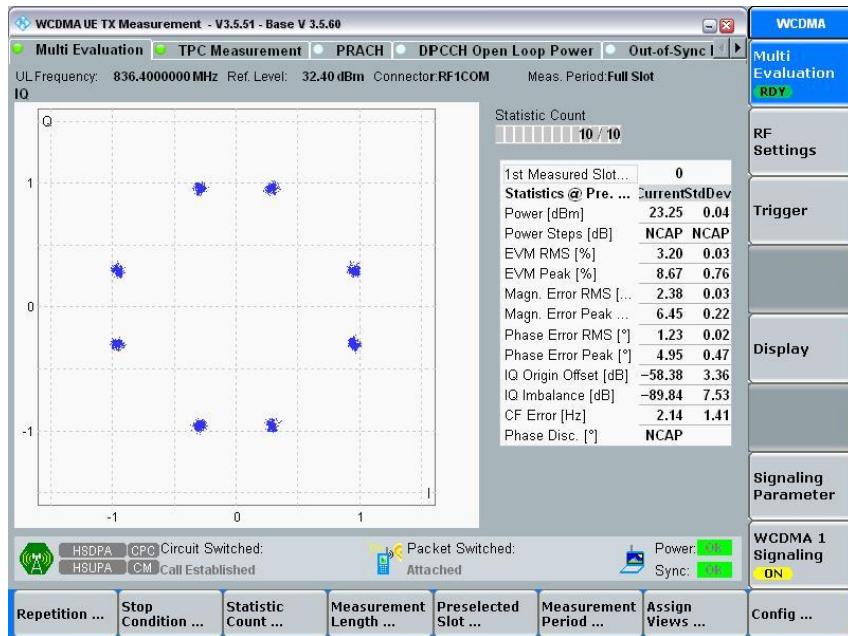


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## 3.2. Test Band = WCDMA Band V

### 3.2.1.1. Test Channel = MCH



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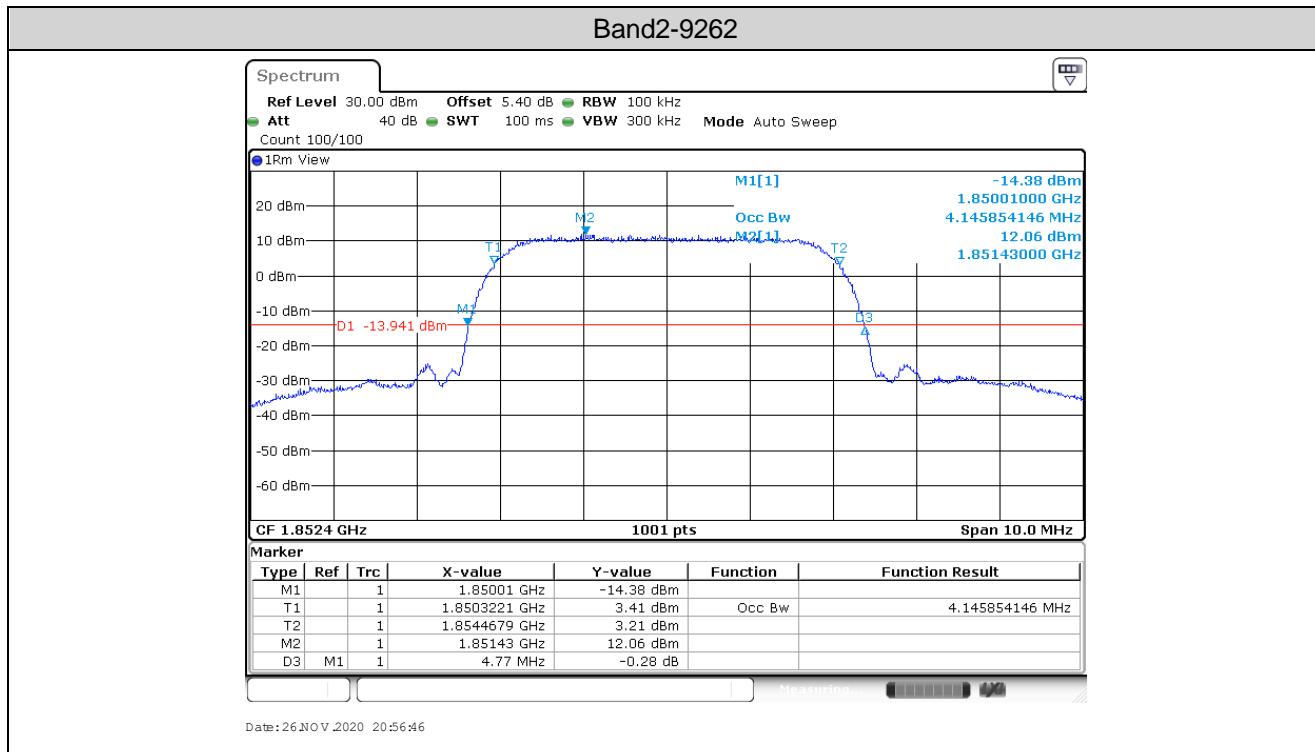
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.146	4.770	---	PASS
Band2	9400	4.146	4.740	---	PASS
Band2	9538	4.126	4.750	---	PASS
Band5	4132	4.166	4.760	---	PASS
Band5	4182	4.136	4.760	---	PASS
Band5	4233	4.096	4.720	---	PASS

### 4.2. Test Plots

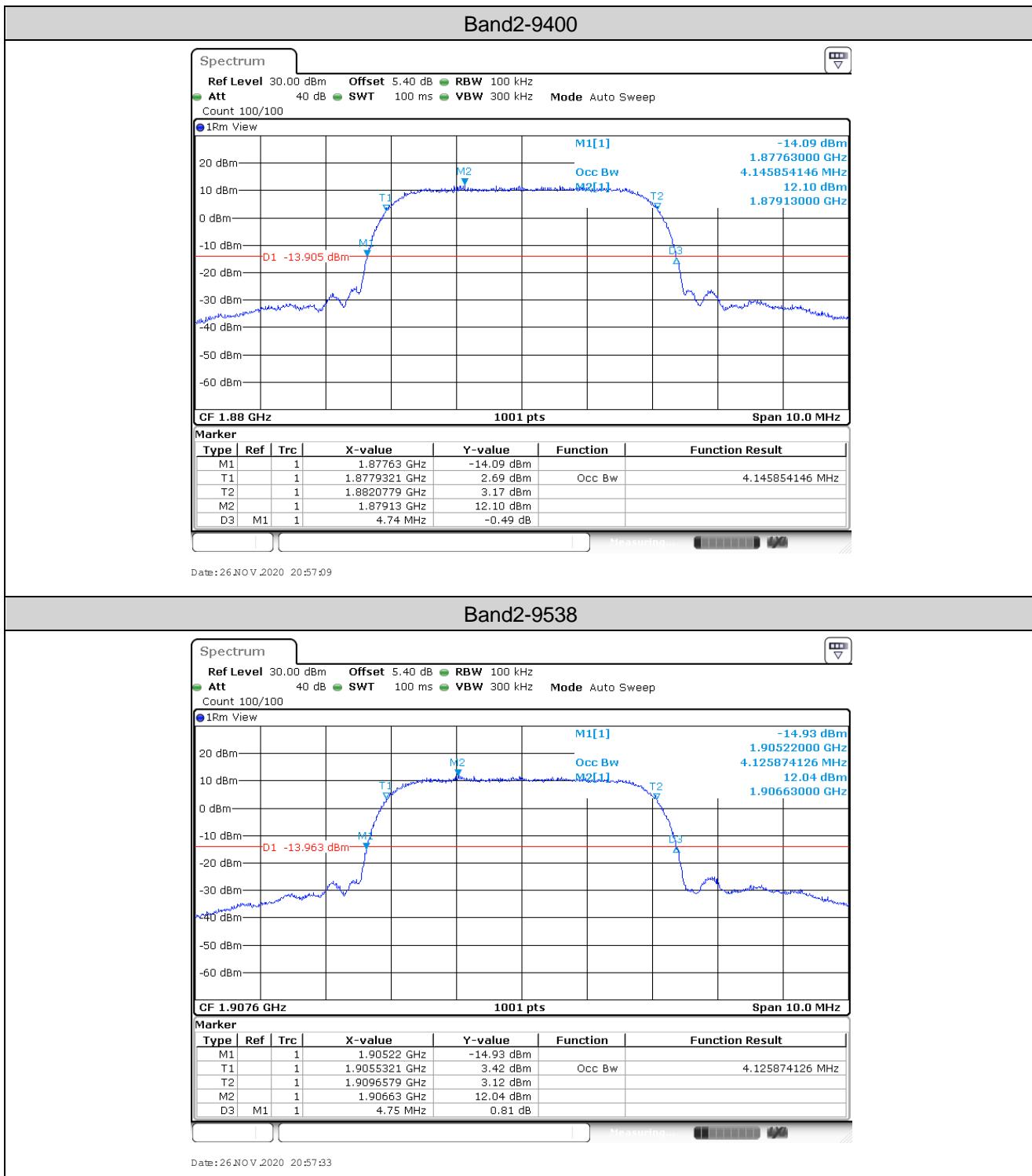


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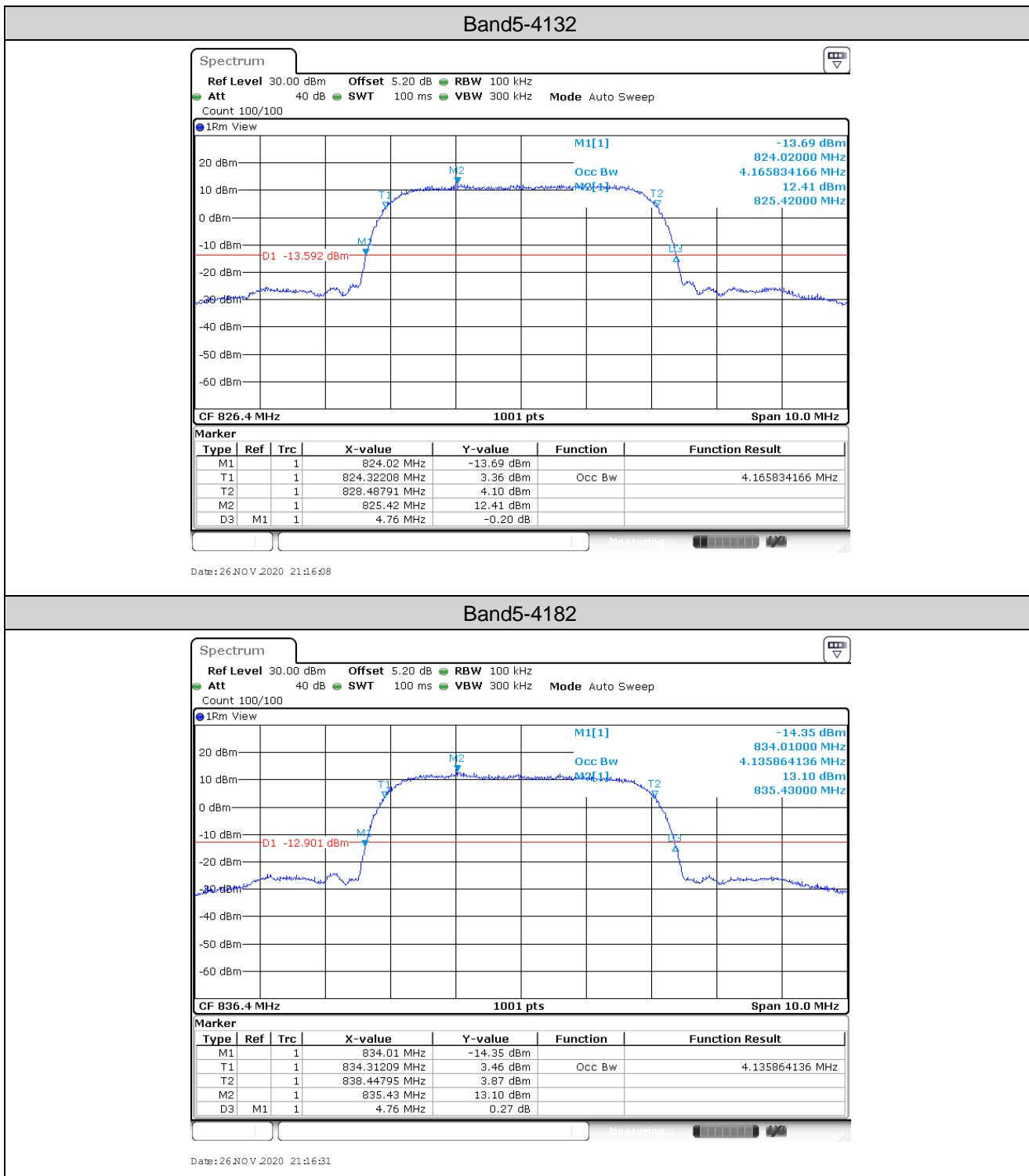


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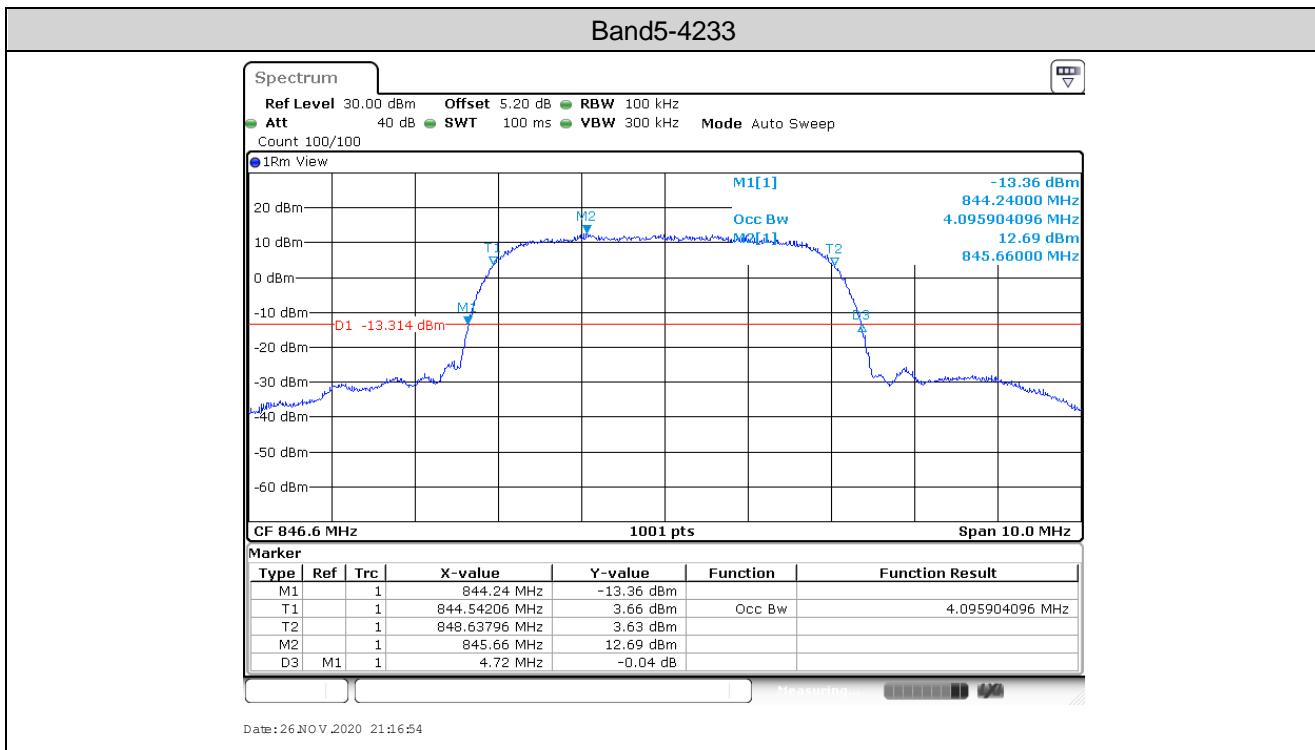


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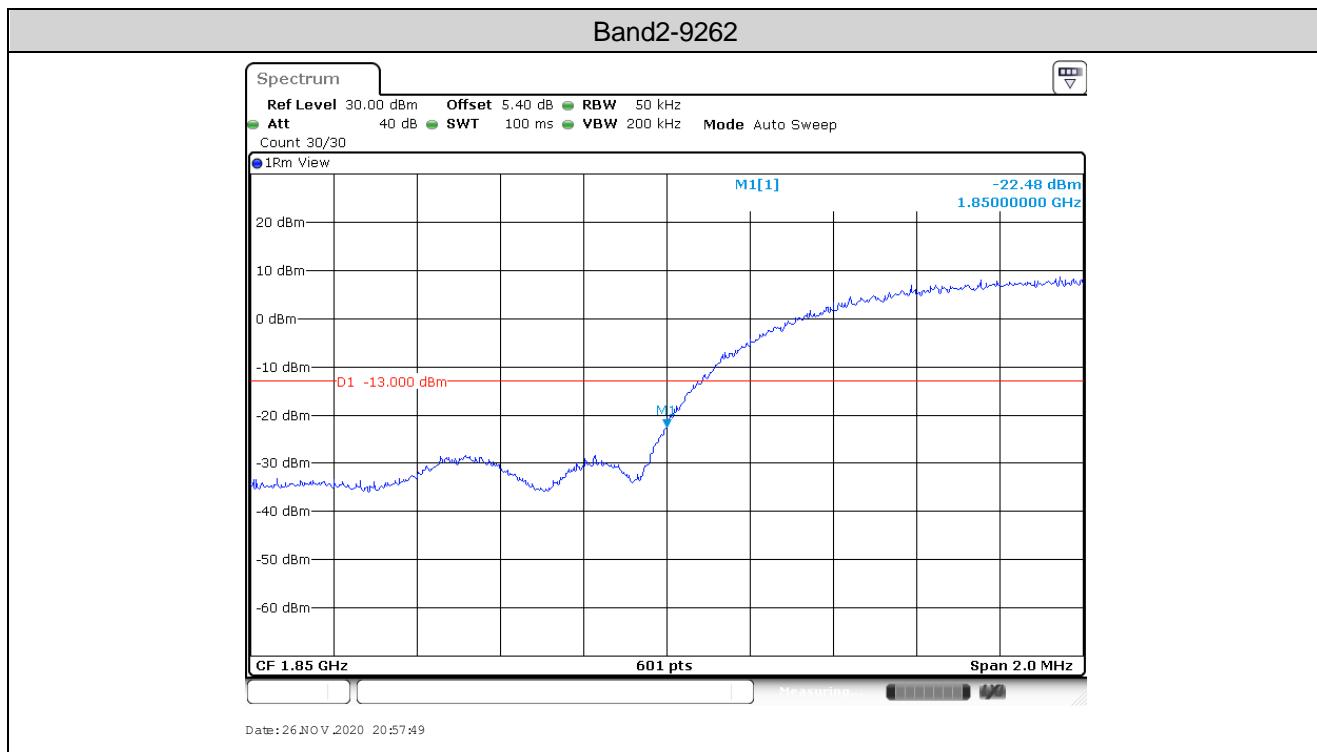
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## 5. Band Edge Compliance

### 5.1. Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.48	-13	PASS
Band2	9538	1910.00	-20.38	-13	PASS
Band5	4132	824.00	-21.70	-13	PASS
Band5	4233	849.00	-22.48	-13	PASS

### 5.2. Test Plots



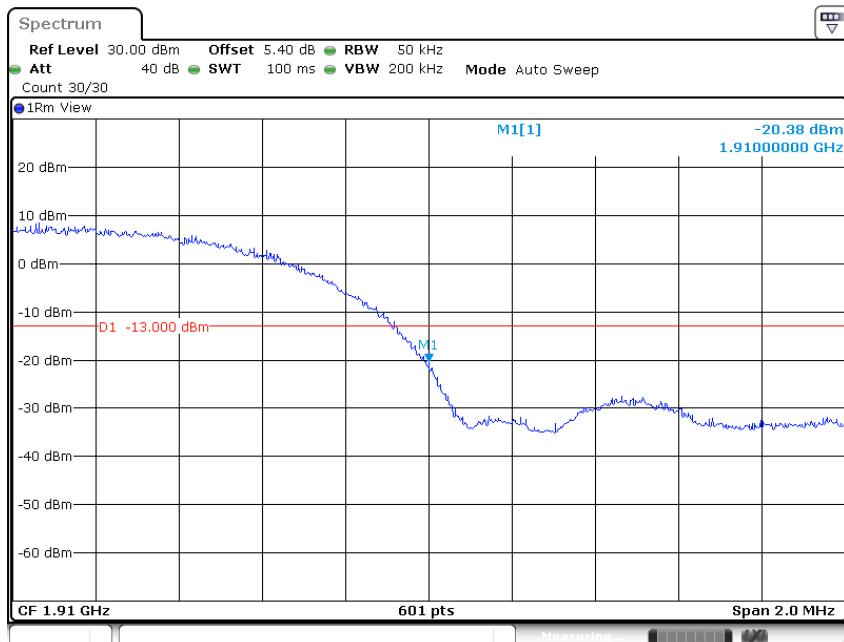
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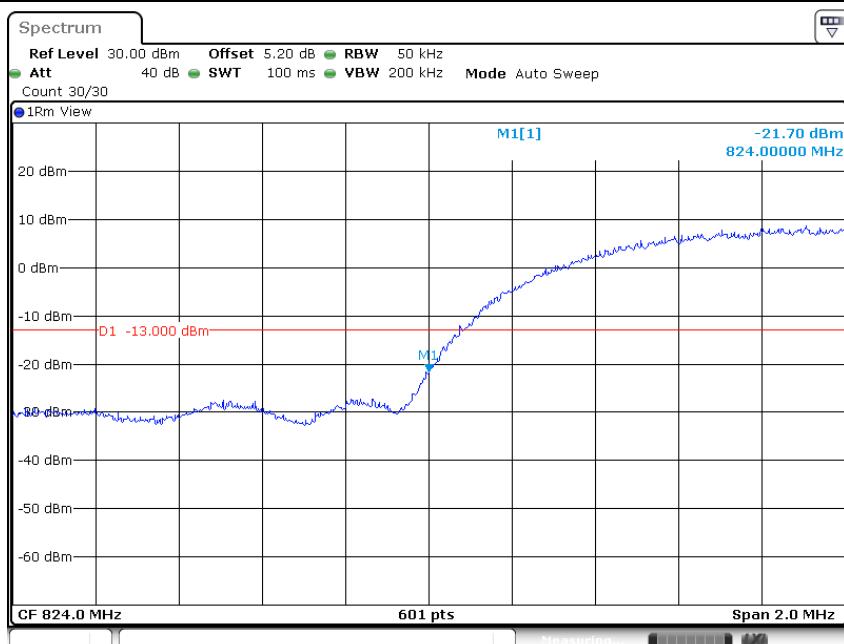
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## Band2-9538



Date: 26 NOV 2020 20:58:04

## Band5-4132



Date: 26 NOV 2020 21:17:10

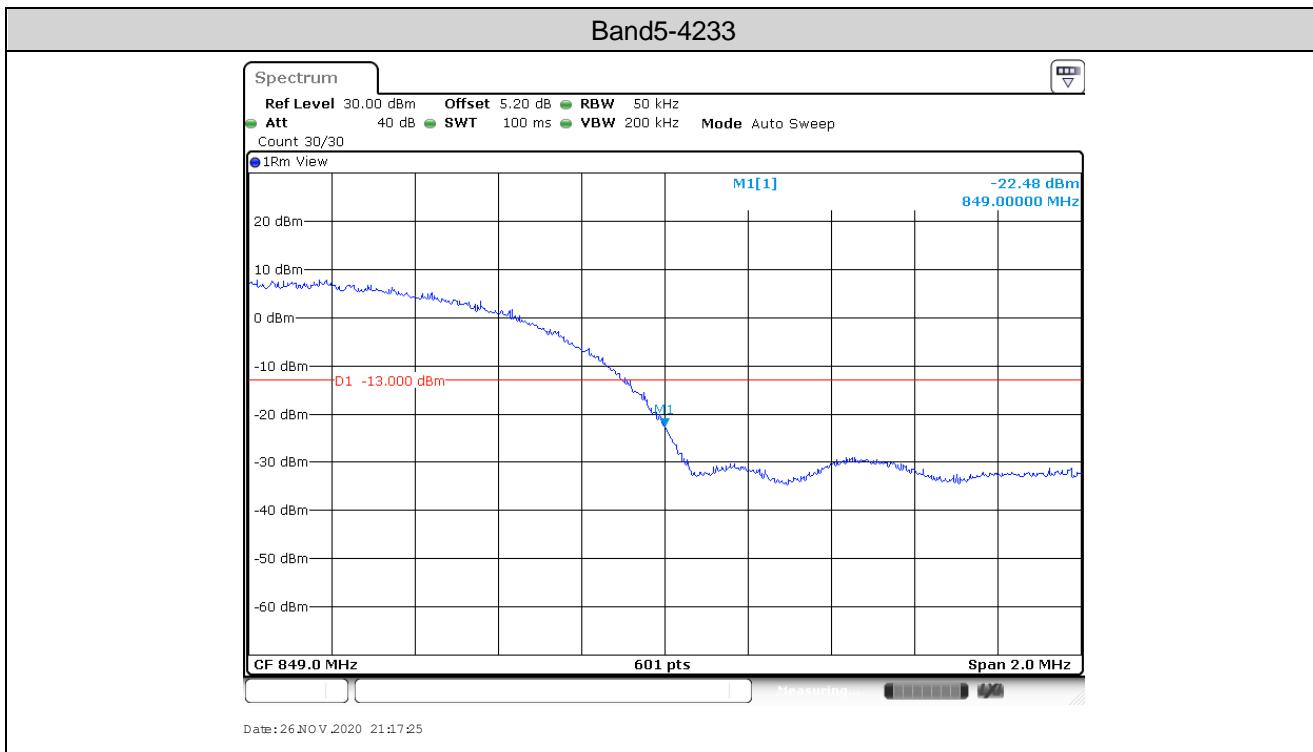
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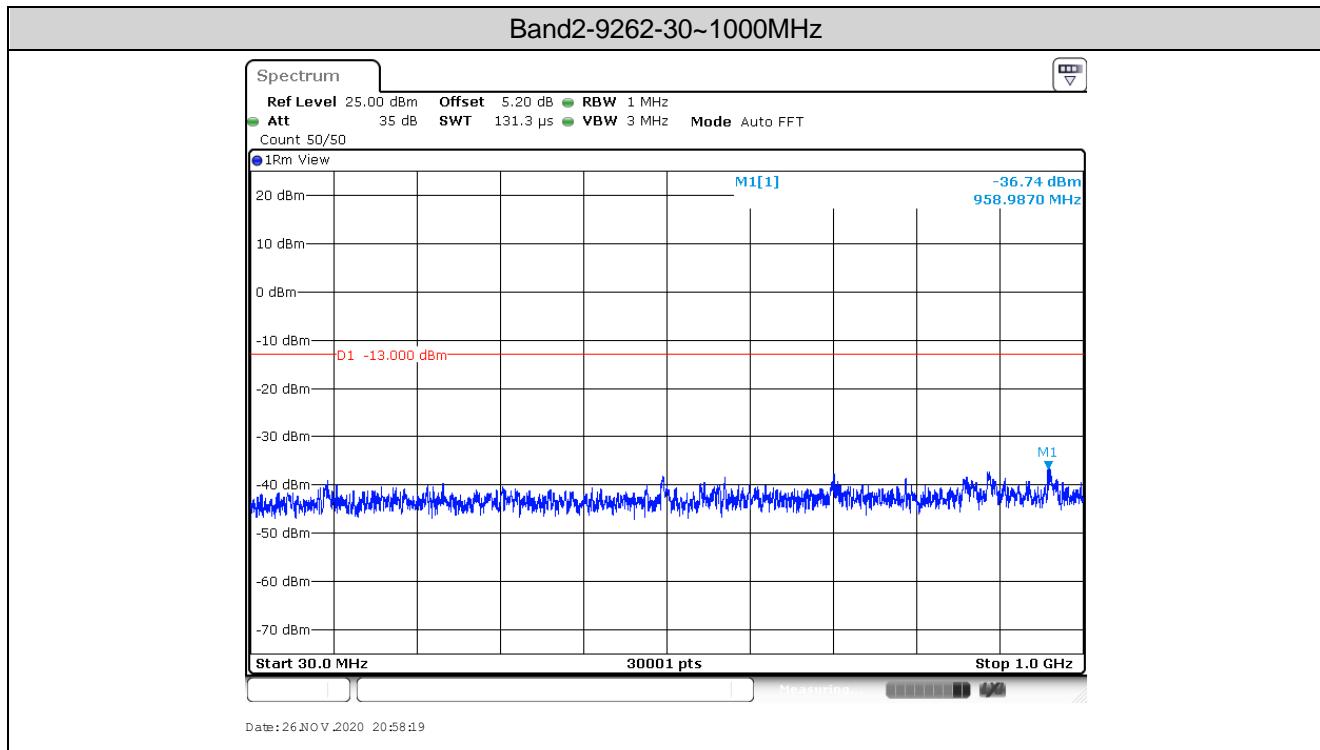
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## 6. Spurious Emission at Antenna Terminal

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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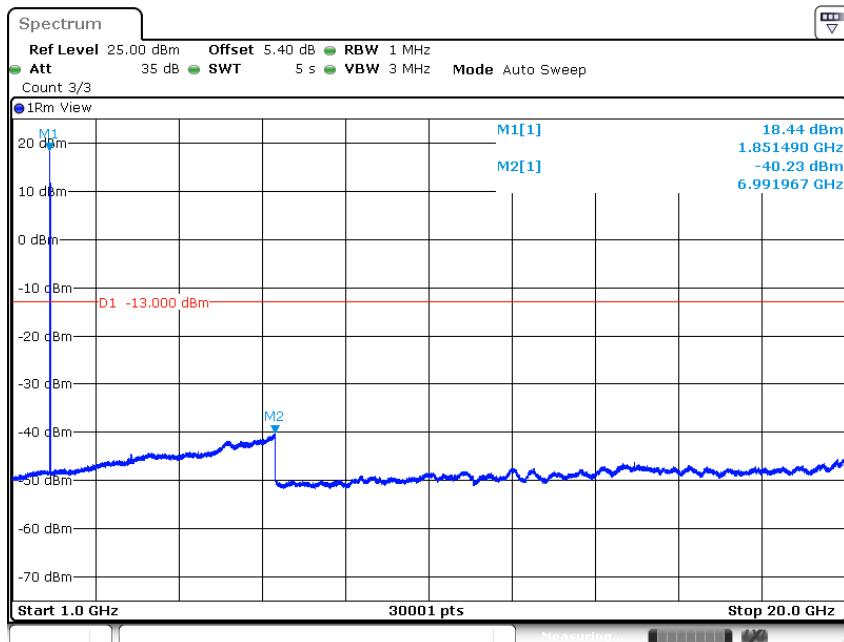
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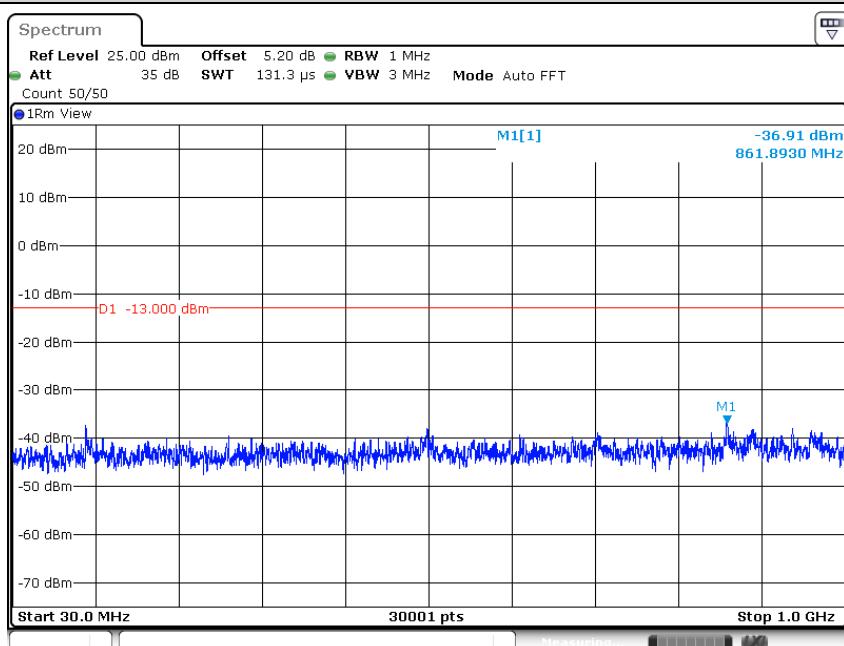
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## Band2-9262-1000~20000MHz



Date: 26 NOV 2020 20:58:45

## Band2-9400-30~1000MHz



Date: 26 NOV 2020 20:58:59

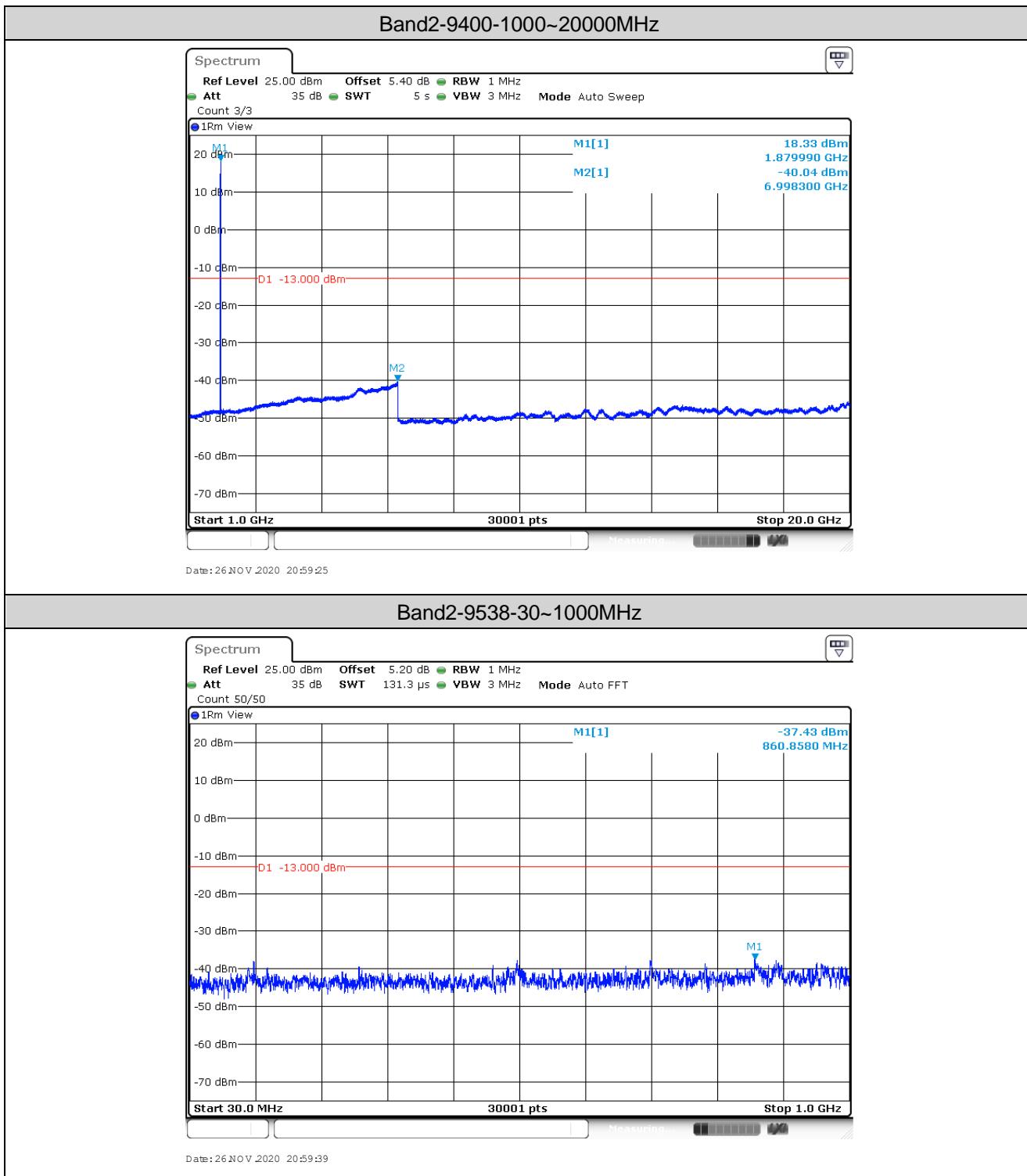
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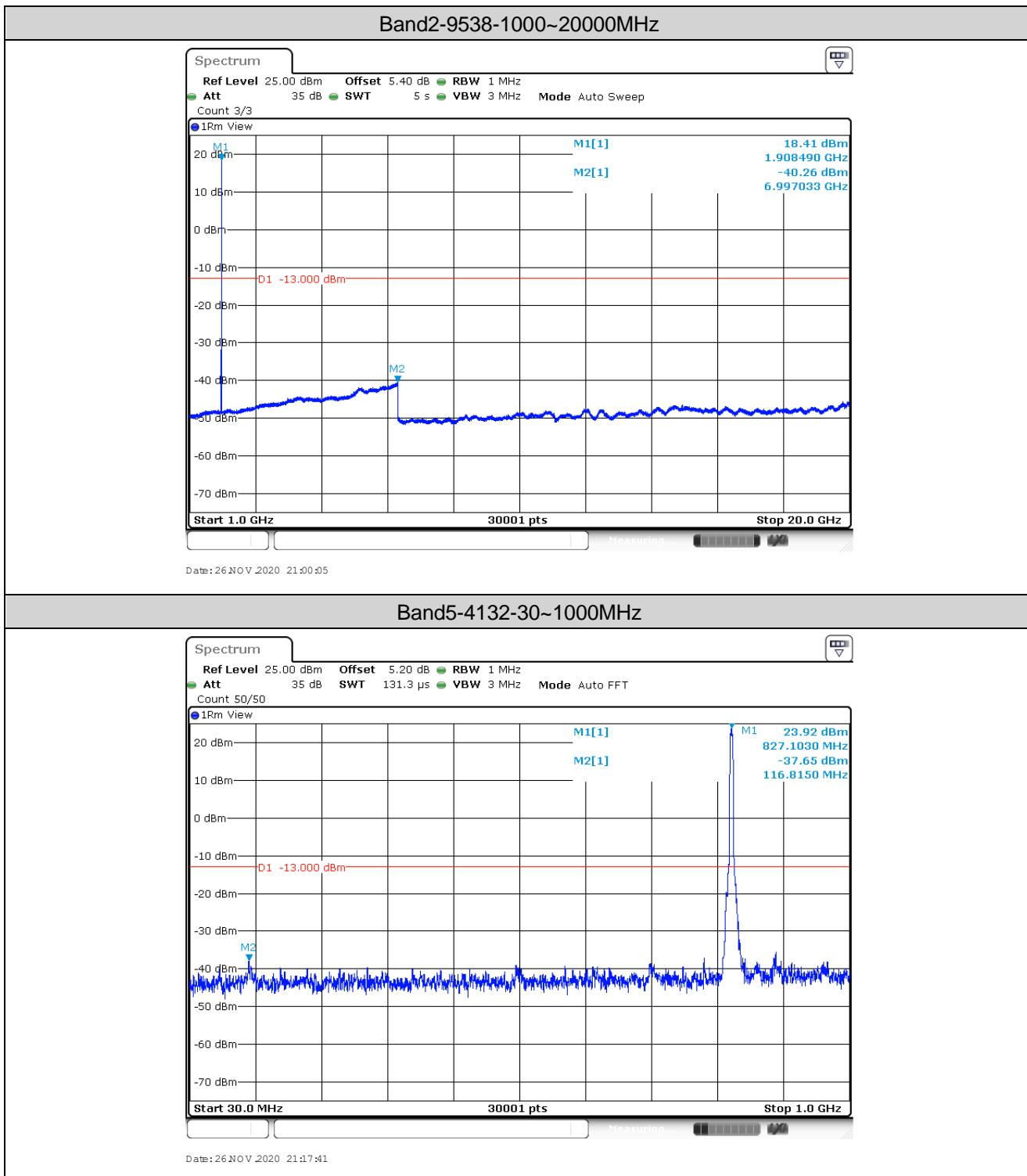
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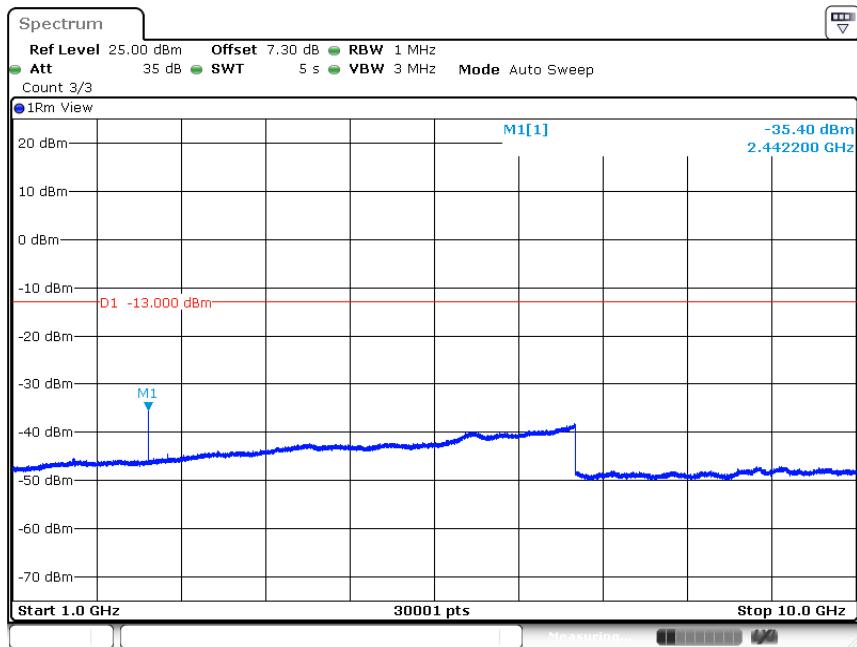
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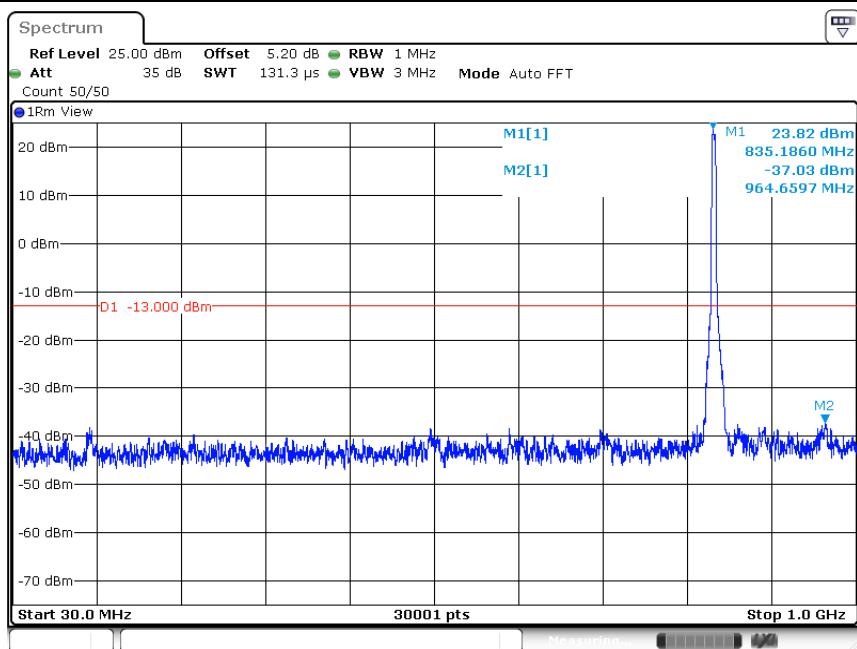
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## Band5-4132-1000~10000MHz



Date: 26 NOV 2020 21:18:06

## Band5-4182-30~1000MHz



Date: 26 NOV 2020 21:18:21

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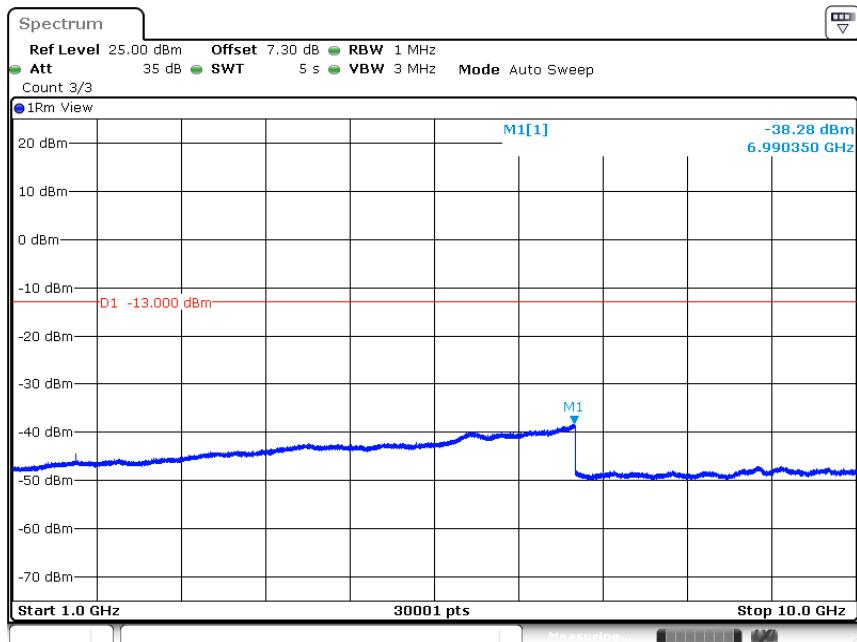
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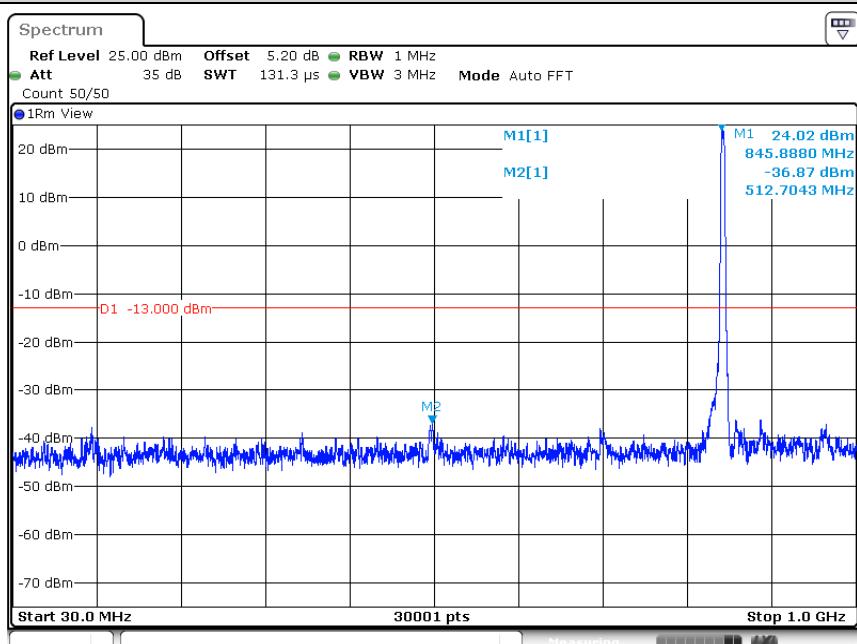
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## Band5-4182-1000~10000MHz



Date: 26 NOV 2020 21:18:46

## Band5-4233-30~1000MHz



Date: 26 NOV 2020 21:19:01

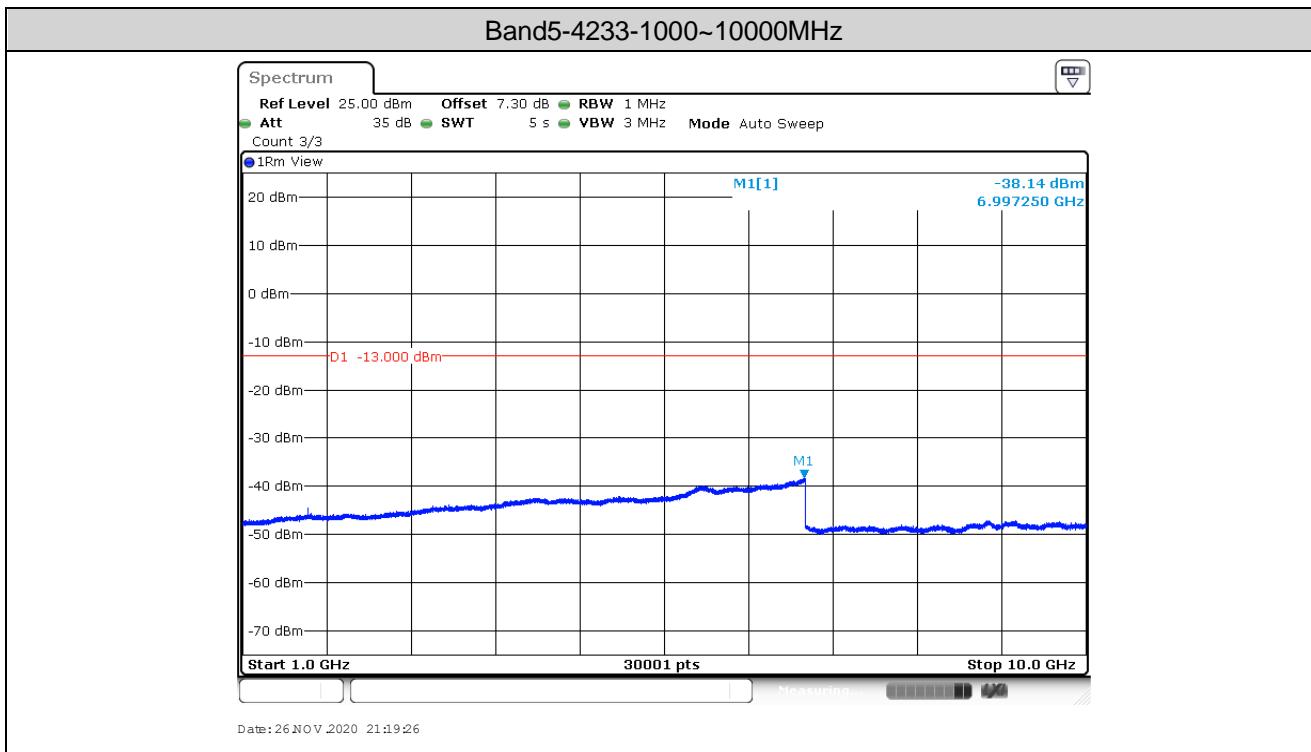
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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA Band II

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

##### 7.1.1.1. Test Channel = LCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
48.0429	-58.05	-13.00	45.05	188	198	Horizontal
246.2723	-66.37	-13.00	53.37	163	293	Horizontal
2699.1398	-34.83	-13.00	21.83	121	27	Horizontal
3706.5236	-53.34	-13.00	40.34	174	0	Horizontal
9313.2104	-52.82	-13.00	39.82	222	58	Horizontal
16394.4465	-44.15	-13.00	31.15	196	293	Horizontal
49.6435	-58.63	-13.00	45.63	252	42	Vertical
116.8678	-61.44	-13.00	48.44	111	11	Vertical
2702.7405	-35.99	-13.00	22.99	163	202	Vertical
3703.5235	-54.98	-13.00	41.98	198	74	Vertical
5554.5852	-54.04	-13.00	41.04	175	294	Vertical
17998.5000	-40.95	-13.00	27.95	222	325	Vertical

##### 7.1.1.2. Test Channel = MCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
46.6363	-57.67	-13.00	44.67	219	196	Horizontal
245.4963	-66.76	-13.00	53.76	263	196	Horizontal
2699.5399	-34.65	-13.00	21.65	116	252	Horizontal
3758.0253	-52.10	-13.00	39.10	274	292	Horizontal
5637.5879	-56.35	-13.00	43.35	197	196	Horizontal
16393.4464	-44.67	-13.00	31.67	162	163	Horizontal
46.0543	-58.51	-13.00	45.51	163	8	Vertical
118.7109	-60.98	-13.00	47.98	252	293	Vertical
2698.3397	-35.91	-13.00	22.91	184	190	Vertical
3758.0253	-53.49	-13.00	40.49	263	40	Vertical
5637.5879	-54.48	-13.00	41.48	222	293	Vertical
17997.9999	-40.48	-13.00	27.48	194	261	Vertical

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### 7.1.1.3. Test Channel = HCH

## 7.2. Test Band = WCDMA Band V

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
46.7333	-59.25	-13.00	46.25	211	196	Horizontal
242.7801	-66.92	-13.00	53.92	263	292	Horizontal
818.1644	-60.75	-13.00	47.75	237	196	Horizontal
3817.0272	-51.10	-13.00	38.10	154	63	Horizontal
5726.0909	-55.65	-13.00	42.65	175	196	Horizontal
16388.4463	-44.70	-13.00	31.70	196	292	Horizontal
47.0729	-58.01	-13.00	45.01	152	8	Vertical
119.0990	-60.41	-13.00	47.41	322	325	Vertical
719.2195	-61.50	-13.00	48.50	263	325	Vertical
3813.5271	-58.29	-13.00	45.29	222	103	Vertical
5720.0907	-48.74	-13.00	35.74	196	135	Vertical
17993.4998	-40.91	-13.00	27.91	176	166	Vertical

### 7.2.1. Test Mode =WCDMA/TM1

#### 7.2.1.1. Test Channel = LCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
46.8788	-56.47	-13.00	43.47	189	191	Horizontal
234.8257	-66.81	-13.00	53.81	252	291	Horizontal
1651.3303	-58.93	-13.00	45.93	163	323	Horizontal
2476.6953	-49.78	-13.00	36.78	127	51	Horizontal
7453.0818	-56.49	-13.00	43.49	294	0	Horizontal
9522.5841	-53.11	-13.00	40.11	255	158	Horizontal
48.3824	-57.78	-13.00	44.78	222	40	Vertical
119.9720	-60.70	-13.00	47.70	218	293	Vertical
639.8695	-63.10	-13.00	50.10	196	230	Vertical
1779.7560	-57.32	-13.00	44.32	305	40	Vertical
2581.9164	-50.17	-13.00	37.17	221	107	Vertical
9806.7936	-52.33	-13.00	39.33	187	73	Vertical

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### 7.2.1.2. Test Channel = MCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
45.9088	-58.27	-13.00	45.27	185	154	Horizontal
231.5276	-66.82	-13.00	53.82	166	316	Horizontal
639.1420	-62.88	-13.00	49.88	203	185	Horizontal
2512.3025	-50.47	-13.00	37.47	296	77	Horizontal
3636.0879	-60.00	-13.00	47.00	218	0	Horizontal
9334.2778	-52.98	-13.00	39.98	188	316	Horizontal
47.4609	-58.46	-13.00	45.46	186	7	Vertical
117.2074	-62.53	-13.00	49.53	222	294	Vertical
398.7639	-66.90	-13.00	53.90	122	262	Vertical
1767.3535	-57.94	-13.00	44.94	198	154	Vertical
2689.9380	-51.01	-13.00	38.01	124	17	Vertical
9893.8298	-52.22	-13.00	39.22	254	294	Vertical

### 7.2.1.3. Test Channel = HCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
48.5764	-58.25	-13.00	45.25	116	161	Horizontal
227.7444	-67.63	-13.00	54.63	252	66	Horizontal
620.7110	-63.20	-13.00	50.20	145	324	Horizontal
1690.9382	-58.48	-13.00	45.48	197	261	Horizontal
2536.3073	-50.78	-13.00	37.78	166	82	Horizontal
9292.7431	-52.62	-13.00	39.62	258	129	Horizontal
50.6620	-58.08	-13.00	45.08	254	262	Vertical
116.7223	-62.62	-13.00	49.62	172	42	Vertical
683.9582	-62.71	-13.00	49.71	136	199	Vertical
1700.1400	-58.93	-13.00	45.93	296	321	Vertical
2702.7405	-51.20	-13.00	38.20	234	44	Vertical
9328.6776	-52.46	-13.00	39.46	125	136	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	0.04	0.000022	±2.5	PASS
Band2	9262	VN	NT	-0.62	-0.000335	±2.5	PASS
Band2	9262	VH	NT	0.42	0.000227	±2.5	PASS
Band2	9400	VL	NT	-0.46	-0.000245	±2.5	PASS
Band2	9400	VN	NT	-0.60	-0.000319	±2.5	PASS
Band2	9400	VH	NT	-0.69	-0.000367	±2.5	PASS
Band2	9538	VL	NT	-4.70	-0.002464	±2.5	PASS
Band2	9538	VN	NT	-4.93	-0.002584	±2.5	PASS
Band2	9538	VH	NT	-4.63	-0.002427	±2.5	PASS
Band5	4132	VL	NT	1.60	0.001936	±2.5	PASS
Band5	4132	VN	NT	1.38	0.001670	±2.5	PASS
Band5	4132	VH	NT	1.66	0.002009	±2.5	PASS
Band5	4182	VL	NT	-0.14	-0.000167	±2.5	PASS
Band5	4182	VN	NT	0.04	0.000048	±2.5	PASS
Band5	4182	VH	NT	-0.16	-0.000191	±2.5	PASS
Band5	4233	VL	NT	-2.23	-0.002634	±2.5	PASS
Band5	4233	VN	NT	-2.21	-0.002610	±2.5	PASS
Band5	4233	VH	NT	-2.07	-0.002445	±2.5	PASS

### 8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	0.82	0.000443	±2.5	PASS
Band2	9262	NV	-20	1.17	0.000632	±2.5	PASS
Band2	9262	NV	-10	1.62	0.000875	±2.5	PASS
Band2	9262	NV	0	1.57	0.000848	±2.5	PASS
Band2	9262	NV	10	1.62	0.000875	±2.5	PASS
Band2	9262	NV	20	2.05	0.001107	±2.5	PASS
Band2	9262	NV	30	2.14	0.001155	±2.5	PASS

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Band2	9262	NV	40	2.45	0.001323	±2.5	PASS
Band2	9262	NV	50	2.40	0.001296	±2.5	PASS
Band2	9400	NV	-30	-1.03	-0.000548	±2.5	PASS
Band2	9400	NV	-20	-0.60	-0.000319	±2.5	PASS
Band2	9400	NV	-10	-0.90	-0.000479	±2.5	PASS
Band2	9400	NV	0	-0.64	-0.000340	±2.5	PASS
Band2	9400	NV	10	-0.79	-0.000420	±2.5	PASS
Band2	9400	NV	20	-0.79	-0.000420	±2.5	PASS
Band2	9400	NV	30	-0.69	-0.000367	±2.5	PASS
Band2	9400	NV	40	-0.66	-0.000351	±2.5	PASS
Band2	9400	NV	50	-0.59	-0.000314	±2.5	PASS
Band2	9538	NV	-30	-4.74	-0.002485	±2.5	PASS
Band2	9538	NV	-20	-4.58	-0.002401	±2.5	PASS
Band2	9538	NV	-10	-4.81	-0.002521	±2.5	PASS
Band2	9538	NV	0	-4.91	-0.002574	±2.5	PASS
Band2	9538	NV	10	-4.67	-0.002448	±2.5	PASS
Band2	9538	NV	20	-5.05	-0.002647	±2.5	PASS
Band2	9538	NV	30	-5.18	-0.002715	±2.5	PASS
Band2	9538	NV	40	-4.89	-0.002563	±2.5	PASS
Band2	9538	NV	50	-4.73	-0.002480	±2.5	PASS
Band5	4132	NV	-30	1.68	0.002033	±2.5	PASS
Band5	4132	NV	-20	1.69	0.002045	±2.5	PASS
Band5	4132	NV	-10	1.76	0.002130	±2.5	PASS
Band5	4132	NV	0	1.65	0.001997	±2.5	PASS
Band5	4132	NV	10	1.57	0.001900	±2.5	PASS
Band5	4132	NV	20	1.81	0.002190	±2.5	PASS
Band5	4132	NV	30	1.77	0.002142	±2.5	PASS
Band5	4132	NV	40	1.69	0.002045	±2.5	PASS
Band5	4132	NV	50	1.72	0.002081	±2.5	PASS
Band5	4182	NV	-30	-0.16	-0.000191	±2.5	PASS
Band5	4182	NV	-20	-0.07	-0.000084	±2.5	PASS
Band5	4182	NV	-10	-0.15	-0.000179	±2.5	PASS
Band5	4182	NV	0	-0.10	-0.000120	±2.5	PASS
Band5	4182	NV	10	-0.18	-0.000215	±2.5	PASS
Band5	4182	NV	20	-0.20	-0.000239	±2.5	PASS
Band5	4182	NV	30	-0.21	-0.000251	±2.5	PASS
Band5	4182	NV	40	-0.27	-0.000323	±2.5	PASS

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Band5	4182	NV	50	-0.33	-0.000395	±2.5	PASS
Band5	4233	NV	-30	-2.10	-0.002481	±2.5	PASS
Band5	4233	NV	-20	-2.02	-0.002386	±2.5	PASS
Band5	4233	NV	-10	-2.03	-0.002398	±2.5	PASS
Band5	4233	NV	0	-2.17	-0.002563	±2.5	PASS
Band5	4233	NV	10	-2.10	-0.002481	±2.5	PASS
Band5	4233	NV	20	-2.25	-0.002658	±2.5	PASS
Band5	4233	NV	30	-2.10	-0.002481	±2.5	PASS
Band5	4233	NV	40	-2.10	-0.002481	±2.5	PASS
Band5	4233	NV	50	-2.26	-0.002670	±2.5	PASS

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