

# Appendix B

## WCDMA Band II & V





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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	21.75	20.69	33.00	PASS
Band II	9400	21.82	20.76	33.00	PASS
Band II	9538	21.86	20.80	33.00	PASS

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.64	18.19	38.45	PASS
Band V	4182	23.71	18.26	38.45	PASS
Band V	4233	23.74	18.29	38.45	PASS

Remark:

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

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

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



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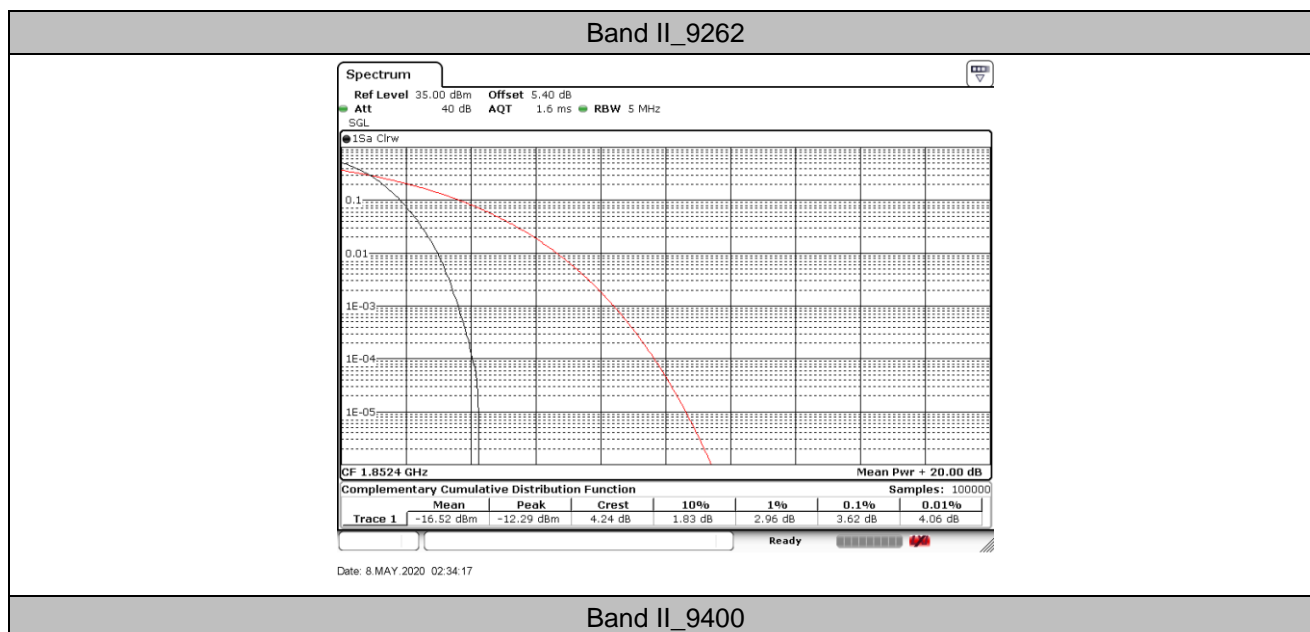
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## 2. Peak-to-Average Ratio(CCDF)

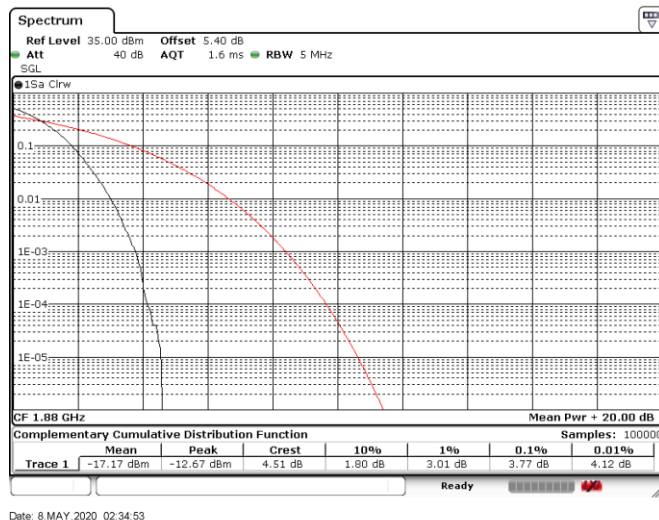
### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.62	13	PASS
Band II	9400	3.77	13	PASS
Band II	9538	3.74	13	PASS
Band V	4132	3.74	13	PASS
Band V	4182	3.91	13	PASS
Band V	4233	3.80	13	PASS

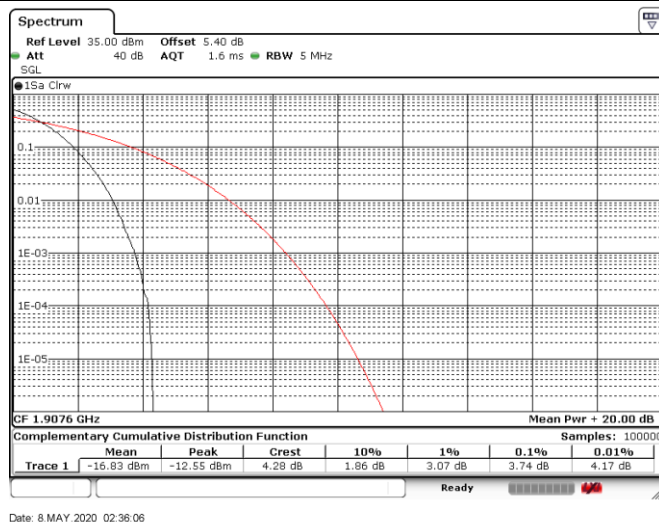
### 2.2. Test Plots







Band II\_9538

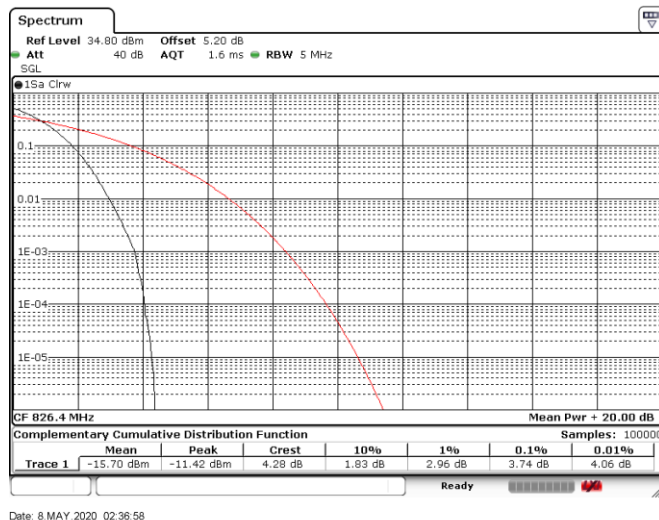


Band V\_4132

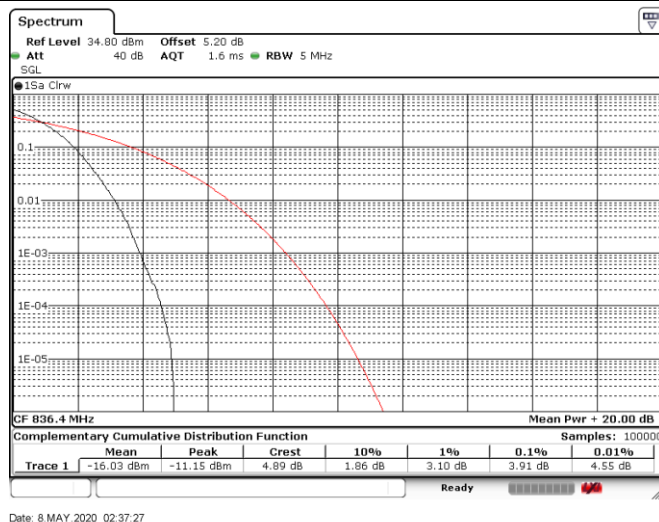


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Band V\_4182



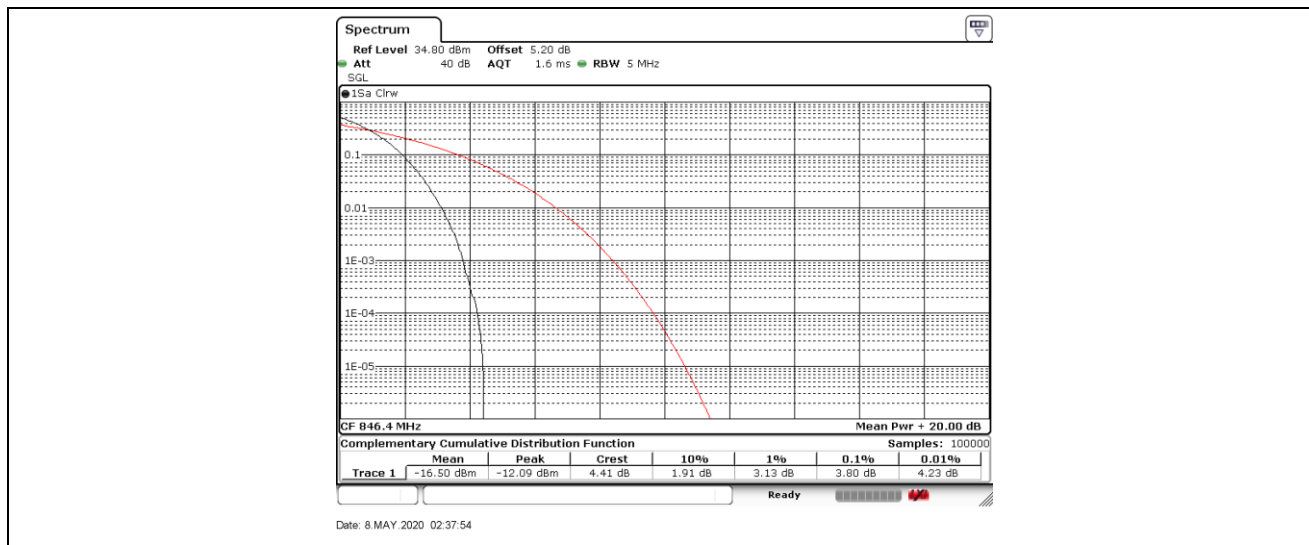
Band V\_4233



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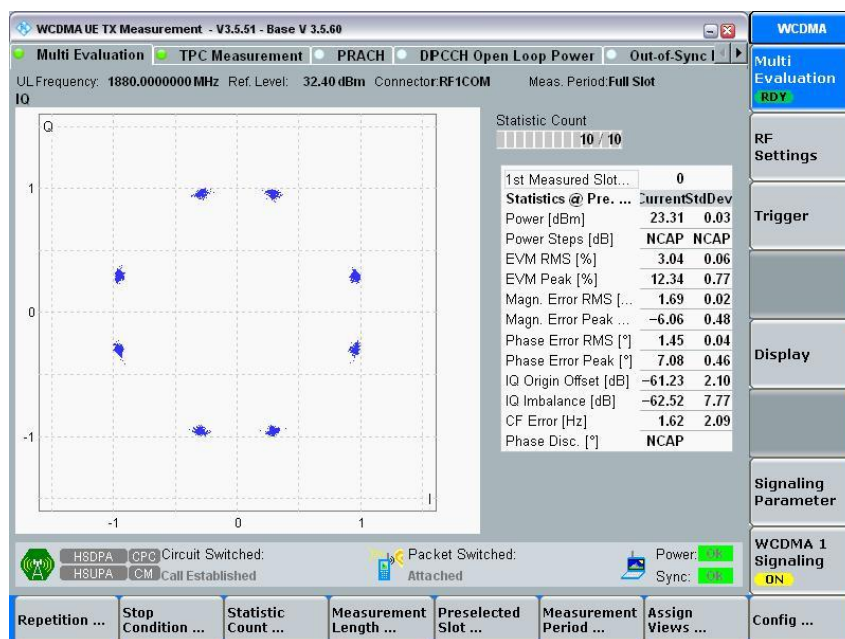


### 3. Modulation Characteristics

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

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

##### 3.1.1.1. Test Channel = MCH

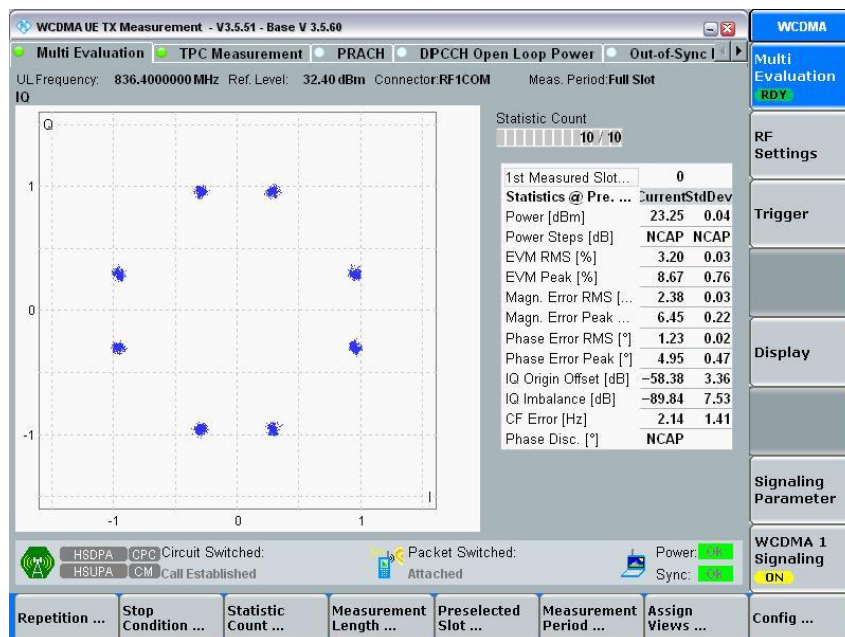


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## 3.2. Test Band = WCDMA Band V

### 3.2.1. Test Mode = UMTS/TM1

#### 3.2.1.1. Test Channel = MCH



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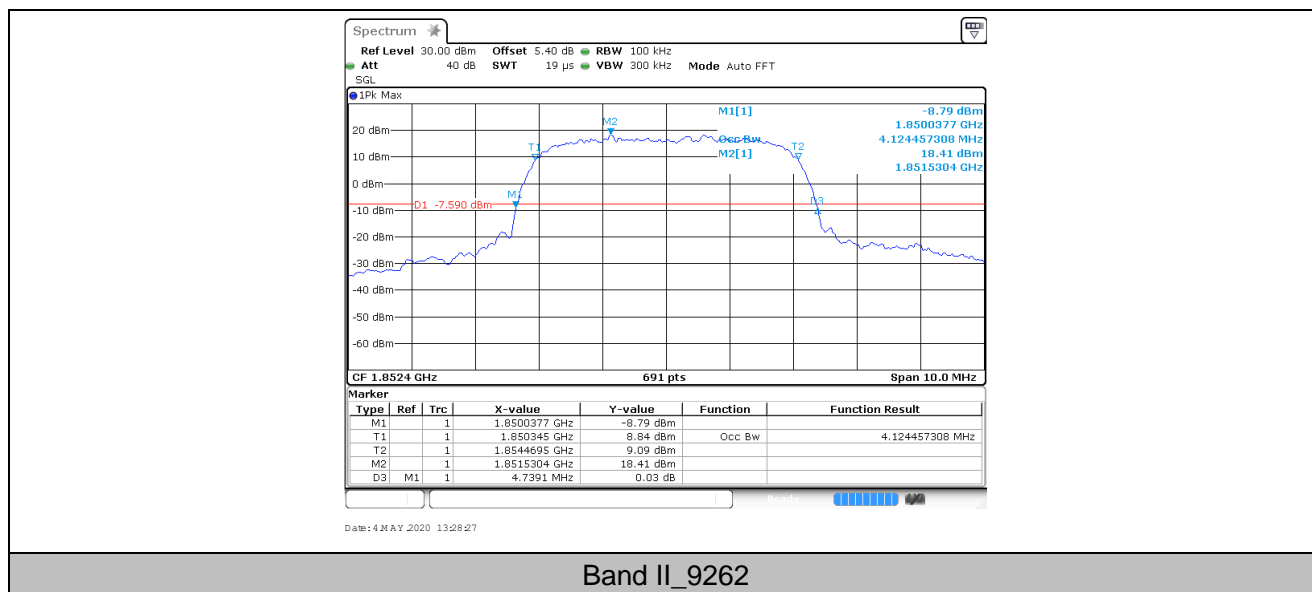
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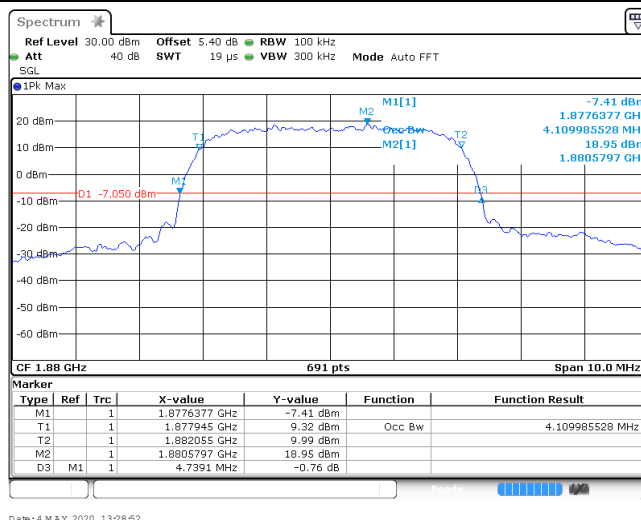
## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

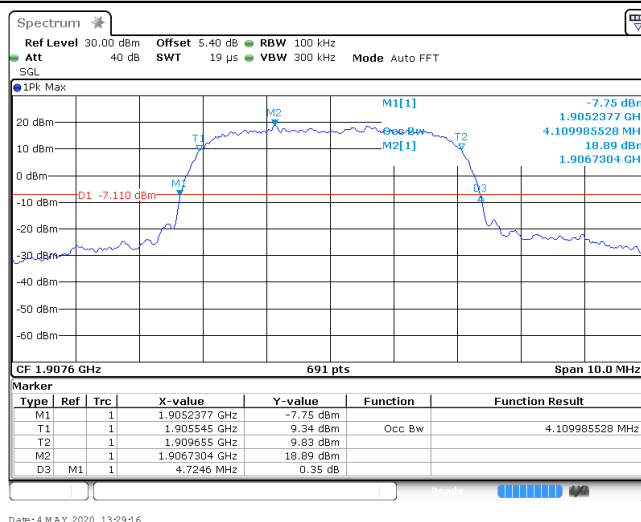
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4124.5	4739	---	PASS
Band II	9400	4110.0	4739	---	PASS
Band II	9538	4110.0	4725	---	PASS
Band V	4132	4124.5	4739	---	PASS
Band V	4182	4110.0	4739	---	PASS
Band V	4233	4110.0	4725	---	PASS

### 4.2. Test Plots





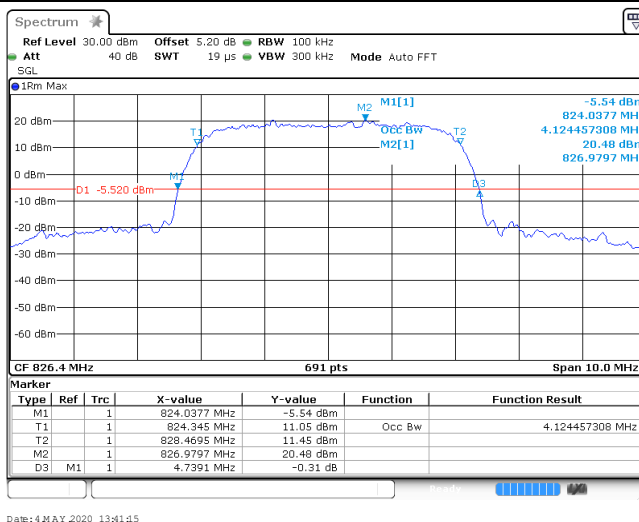
## Band II\_9400



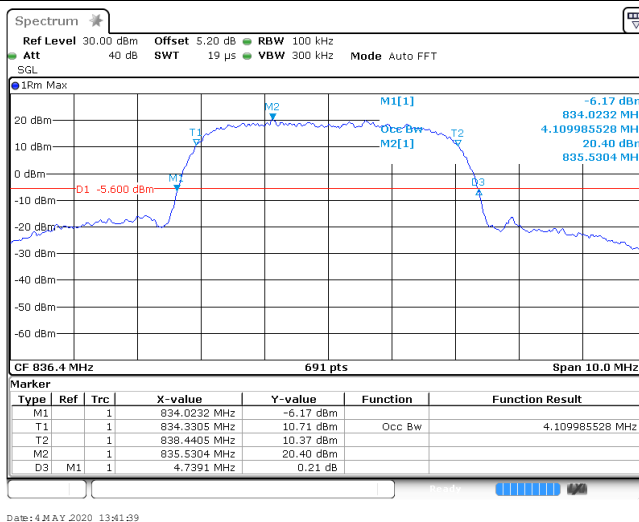
## Band II\_9538







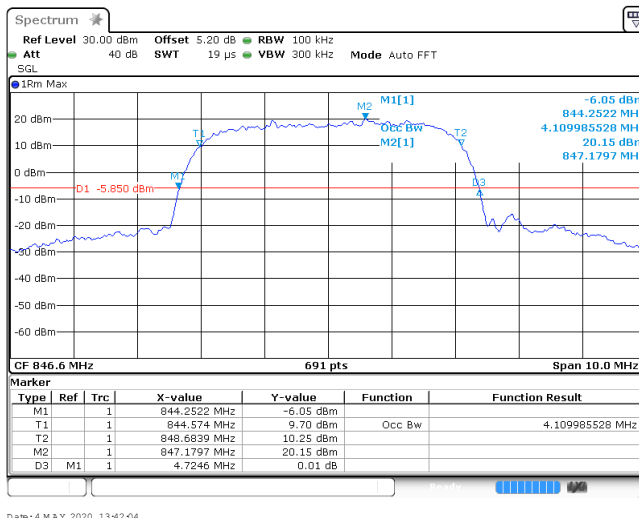
## Band V\_4132



## Band V\_4182







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Band V\_4233



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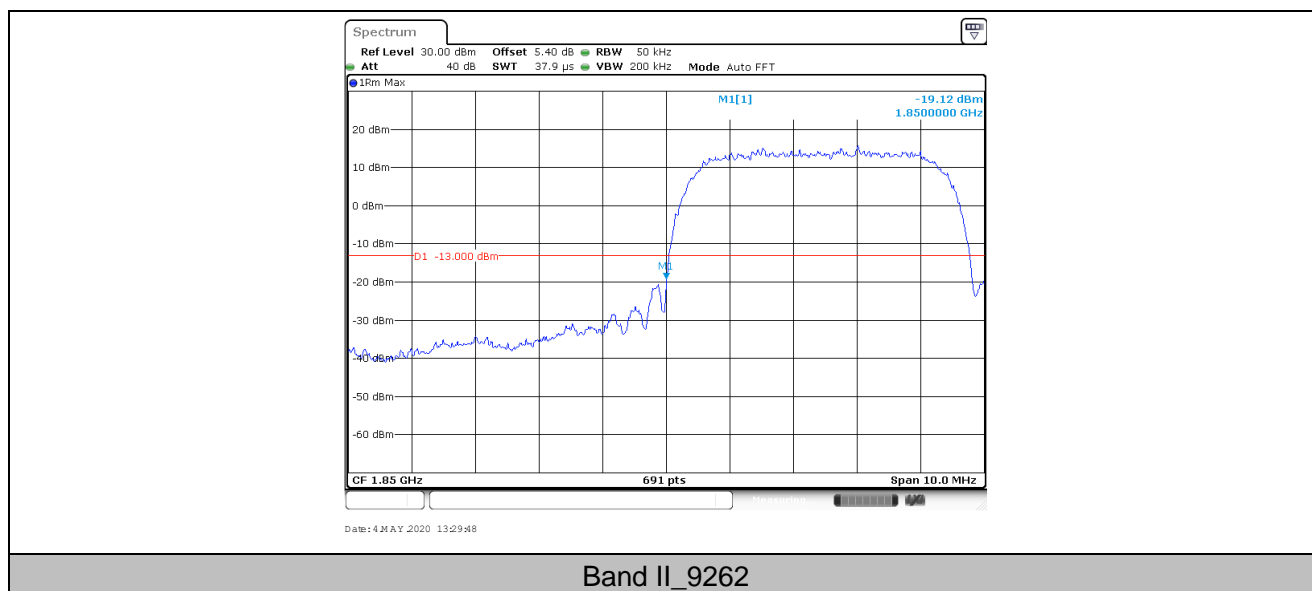
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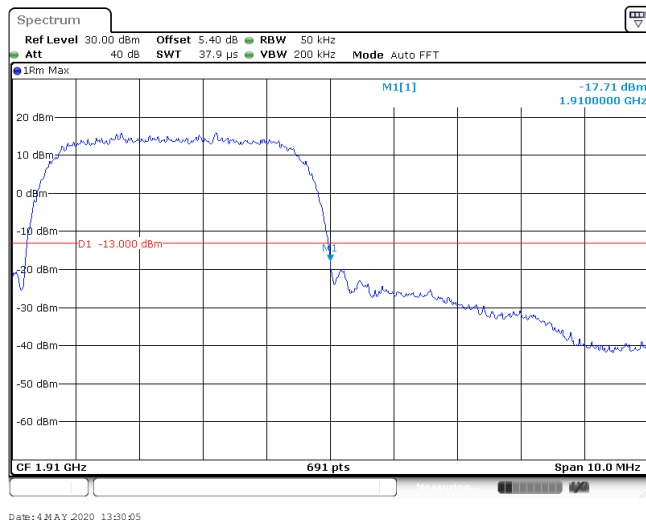
## 5. Band Edge Compliance

### 5.1. Test Result

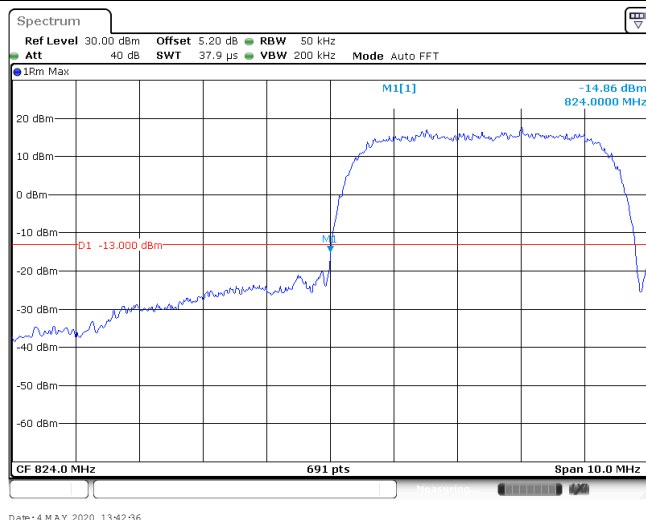
Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-19.12	-13	PASS
Band II	9538	-17.71	-13	PASS
Band V	4132	-14.86	-13	PASS
Band V	4233	-14.15	-13	PASS

### 5.2. Test Plots





**Band II\_9538**



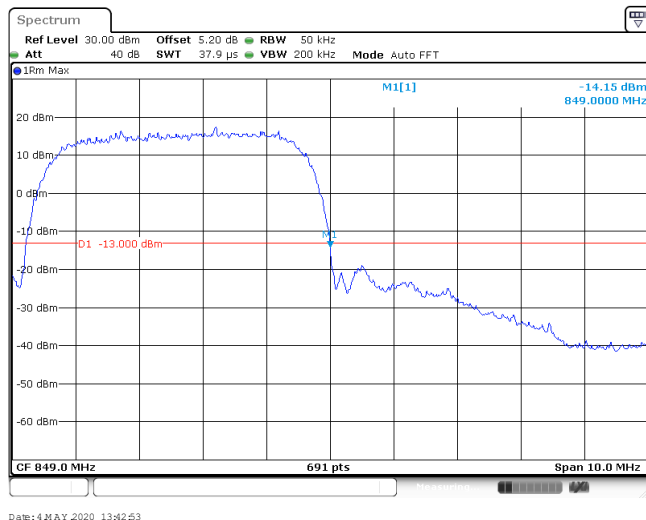
**Band V\_4132**



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Band V\_4233



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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 Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	0.009~0.15	-66.24	-43	PASS
Band II	9262	0.15~30	-56.33	-33	PASS
Band II	9262	30~1000	-45.62	-13	PASS
Band II	9262	1000~7000	-30.45	-13	PASS
Band II	9262	7000~13600	-44.81	-13	PASS
Band II	9262	13600~20000	-42.83	-13	PASS
Band II	9400	0.009~0.15	-65.92	-43	PASS
Band II	9400	0.15~30	-55.12	-33	PASS
Band II	9400	30~1000	-45.69	-13	PASS
Band II	9400	1000~7000	-30.21	-13	PASS
Band II	9400	7000~13600	-44.75	-13	PASS
Band II	9400	13600~20000	-42.74	-13	PASS
Band II	9538	0.009~0.15	-65.82	-43	PASS
Band II	9538	0.15~30	-51.66	-33	PASS
Band II	9538	30~1000	-45.37	-13	PASS
Band II	9538	1000~7000	-30.35	-13	PASS
Band II	9538	7000~13600	-44.45	-13	PASS
Band II	9538	13600~20000	-42.95	-13	PASS
Band V	4132	0.009~0.15	-66.30	-33	PASS
Band V	4132	0.15~30	-55.07	-23	PASS
Band V	4132	30~1000	-44.07	-13	PASS
Band V	4132	1000~9000	-34.07	-13	PASS
Band V	4182	0.009~0.15	-66.27	-33	PASS
Band V	4182	0.15~30	-54.46	-23	PASS
Band V	4182	30~1000	-44.85	-13	PASS
Band V	4182	1000~9000	-34.25	-13	PASS
Band V	4233	0.009~0.15	-66.92	-33	PASS

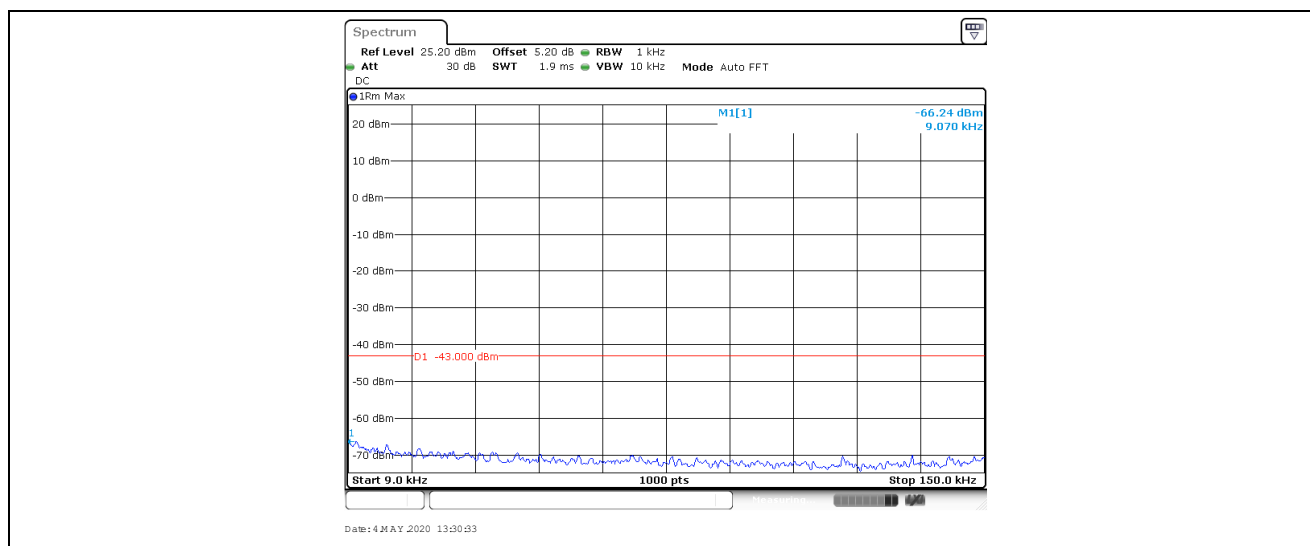




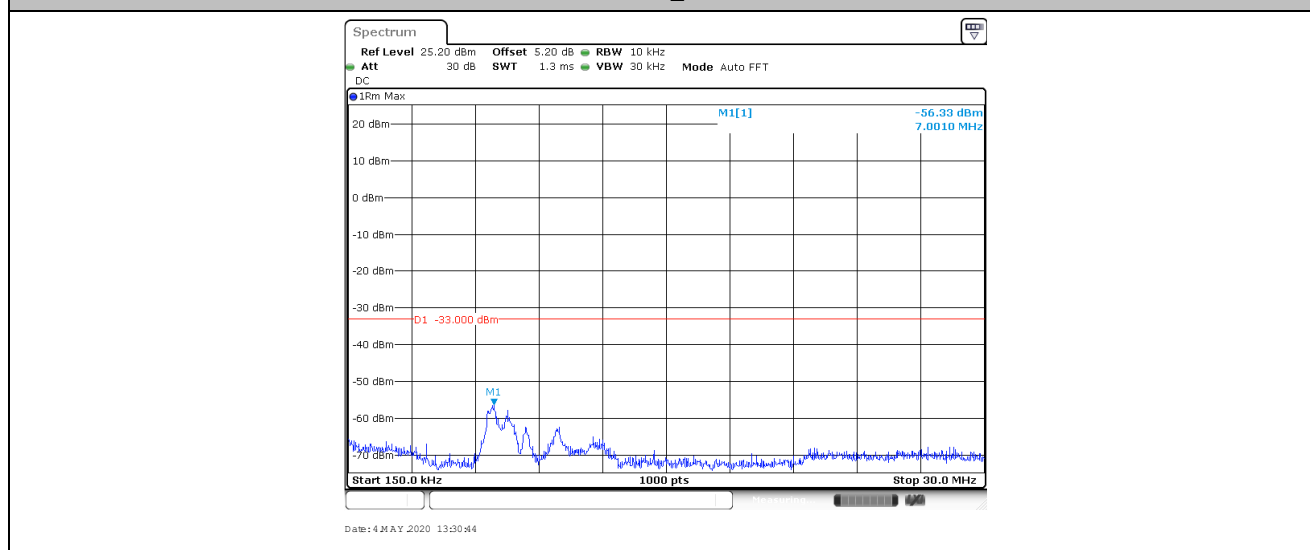


Band V	4233	0.15~30	-47.78	-23	PASS
Band V	4233	30~1000	-45.04	-13	PASS
Band V	4233	1000~9000	-34.03	-13	PASS

## 6.2. Test Plots

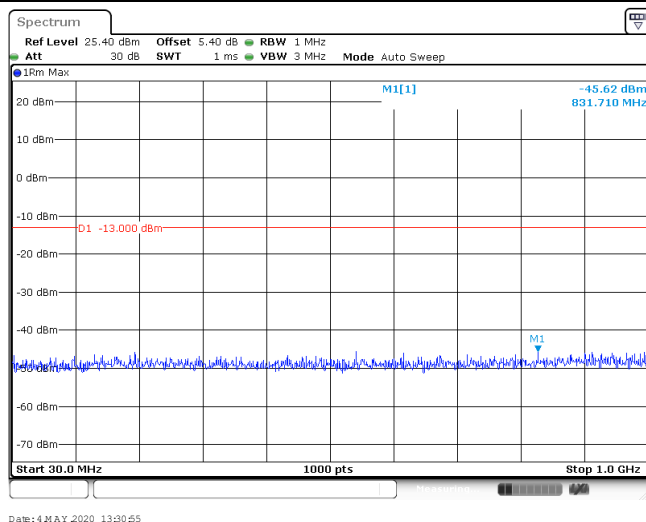


Band II\_9262

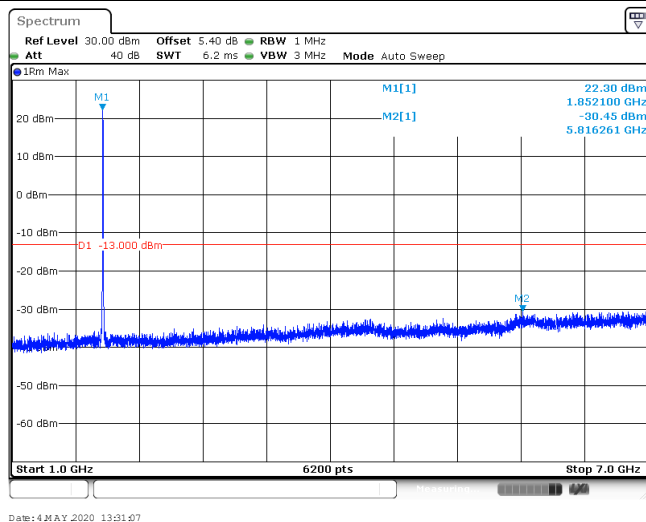


Band II\_9262



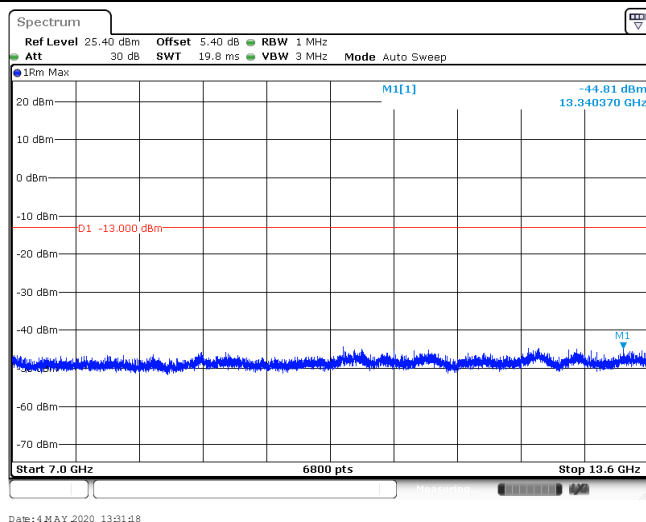


Band II\_9262

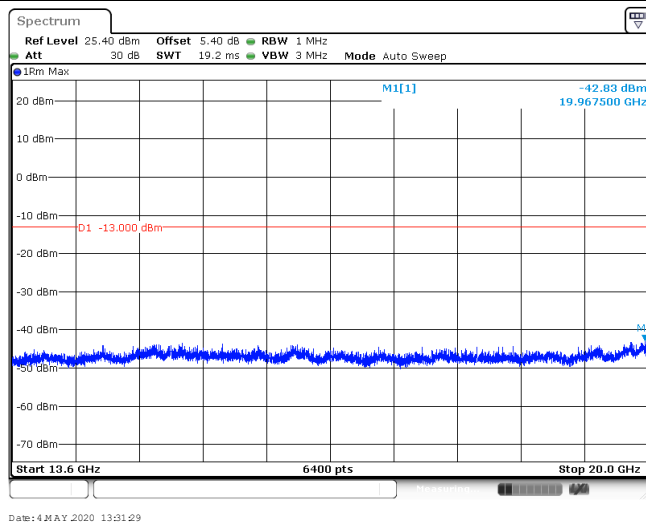


Band II\_9262





Band II\_9262

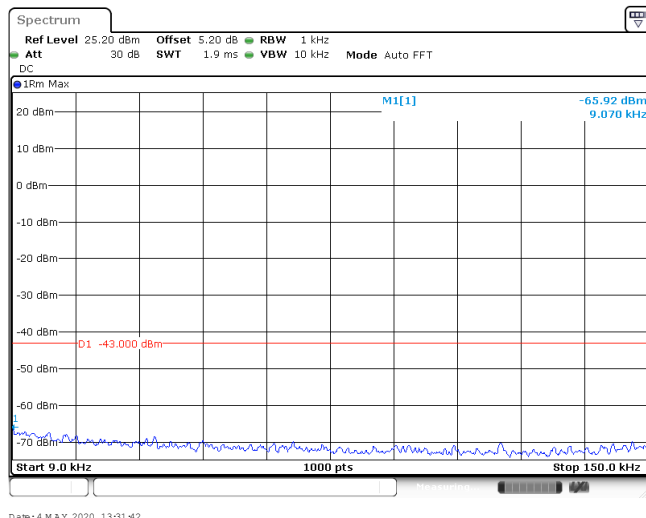


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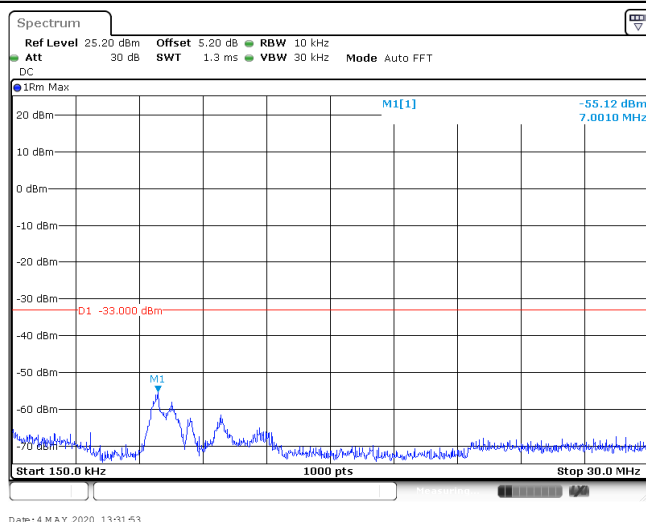


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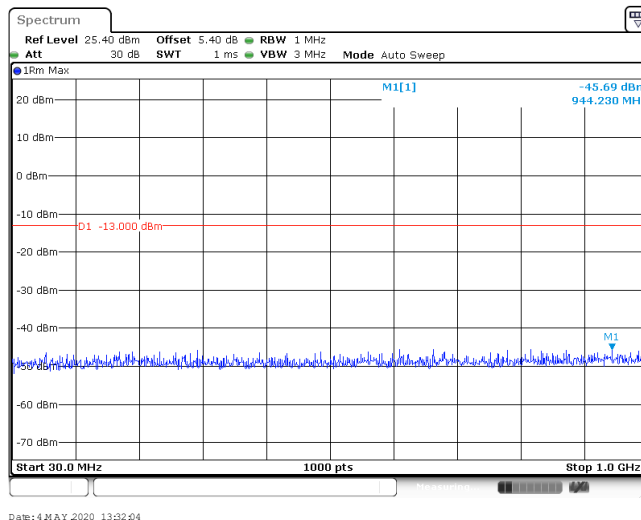


Band II\_9400

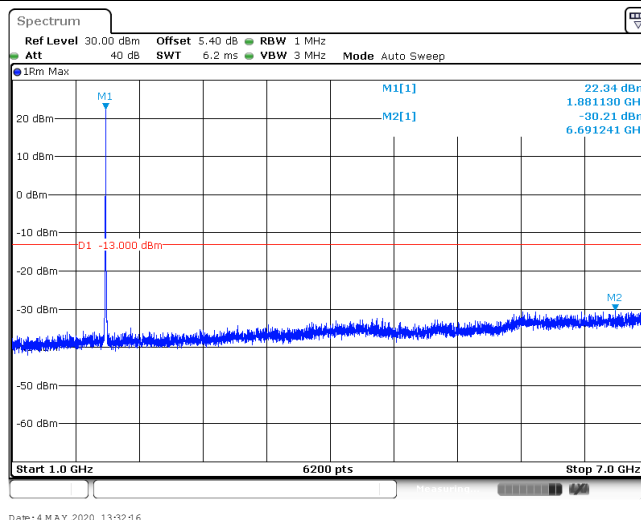


Band II\_9400





Band II\_9400



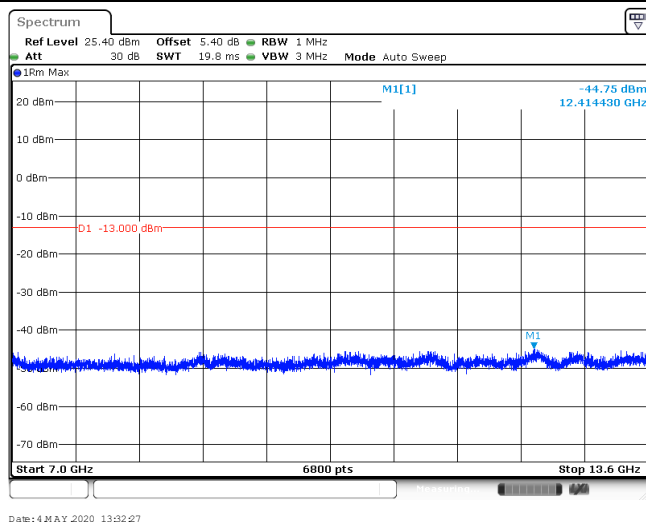
Band II\_9400



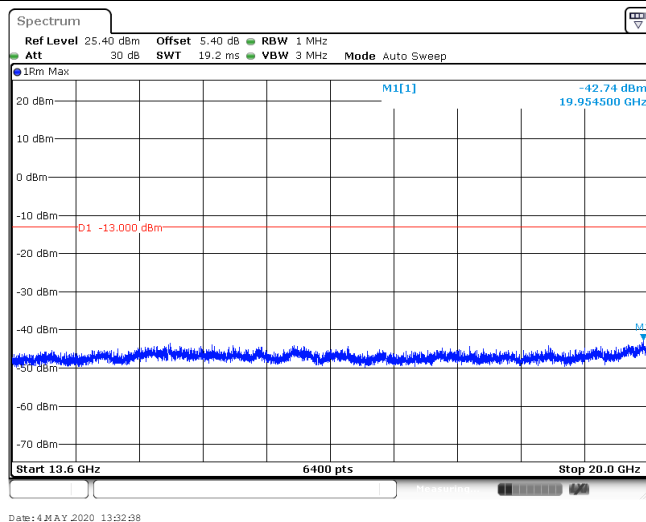
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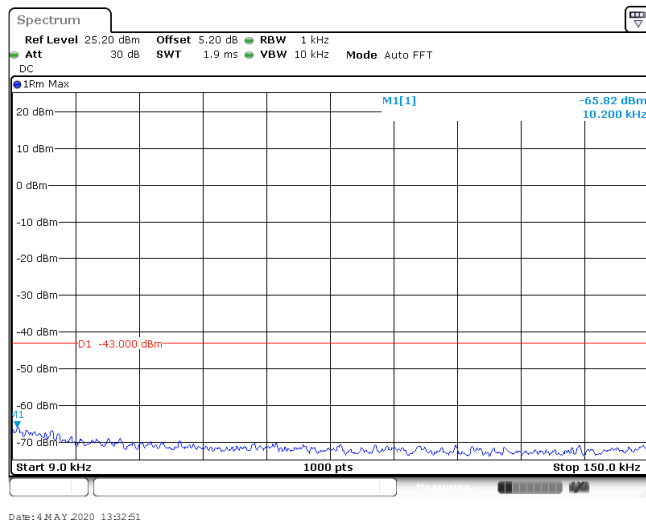
Band II\_9400



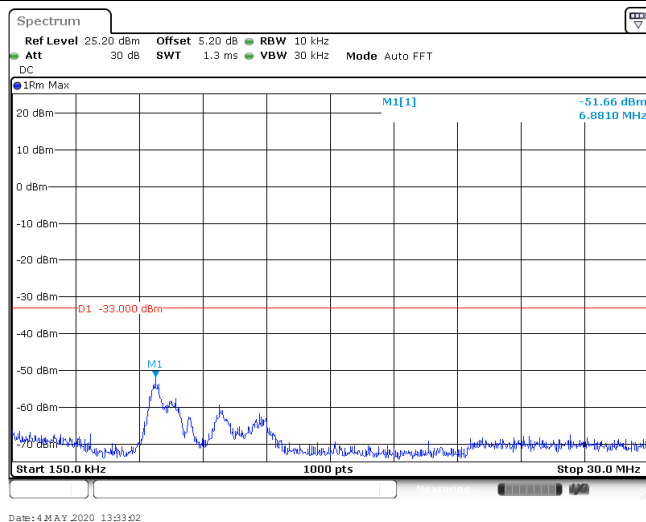
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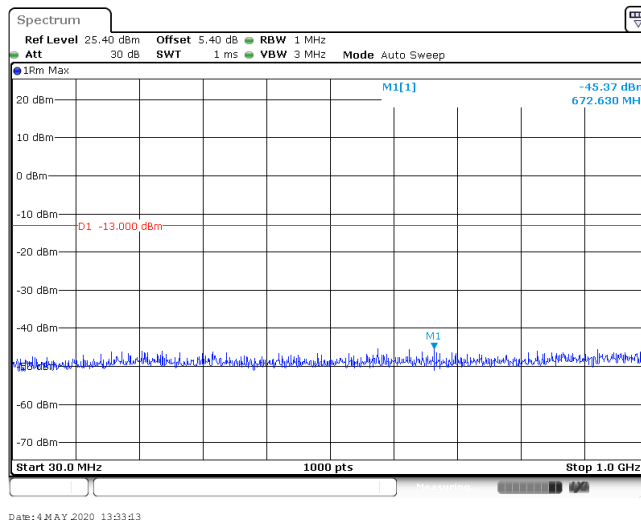


Band II\_9538

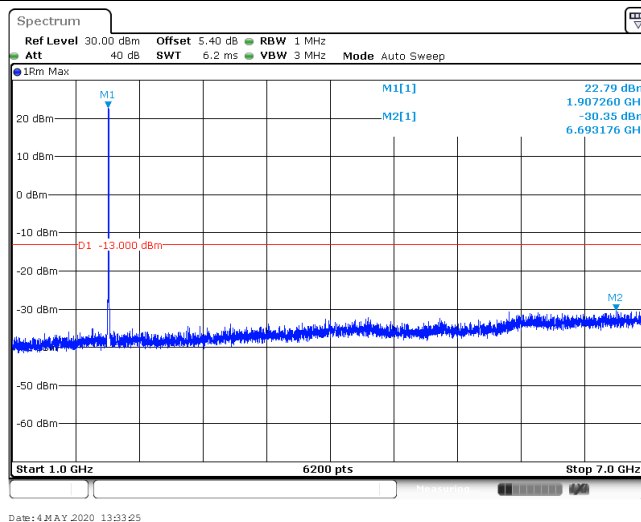


Band II\_9538



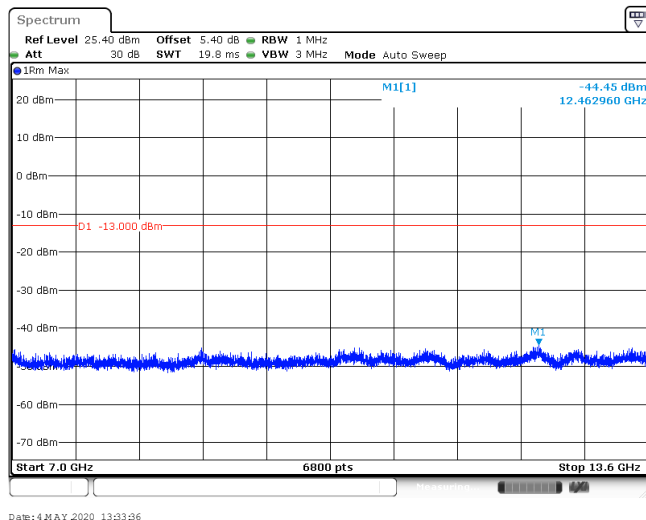


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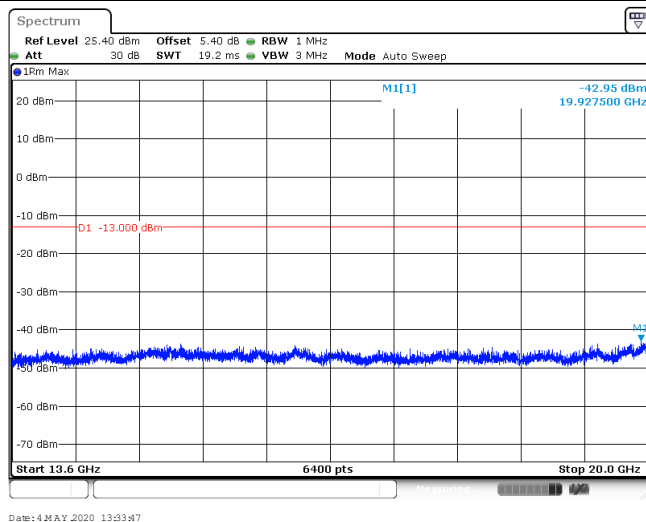


**Band II\_9538**





Band II\_9538

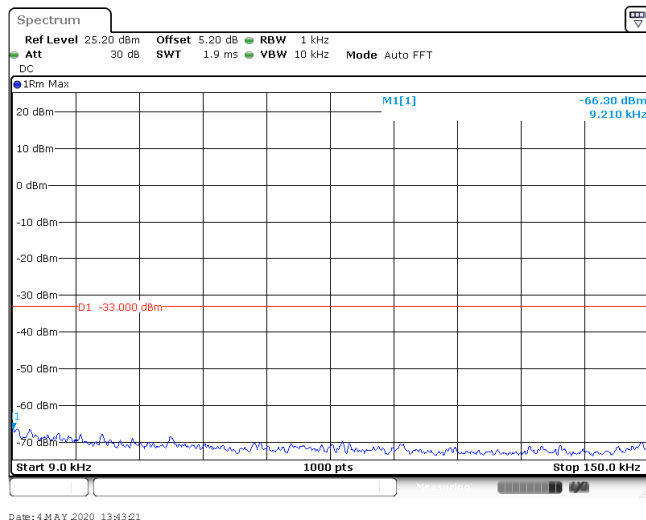


Band II\_9538

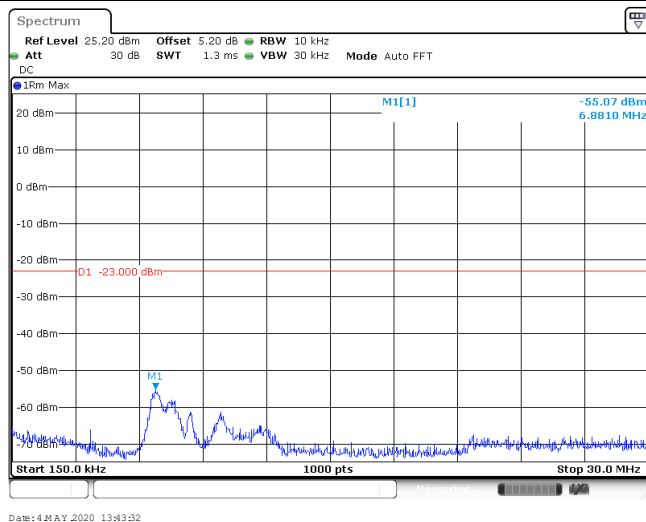


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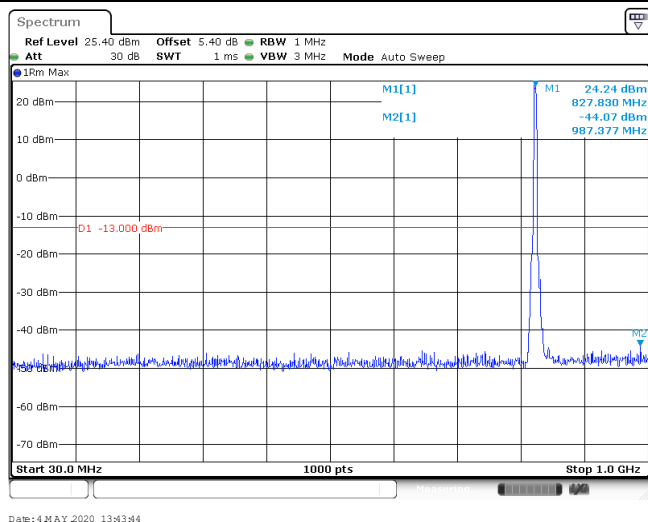
Band V\_4132



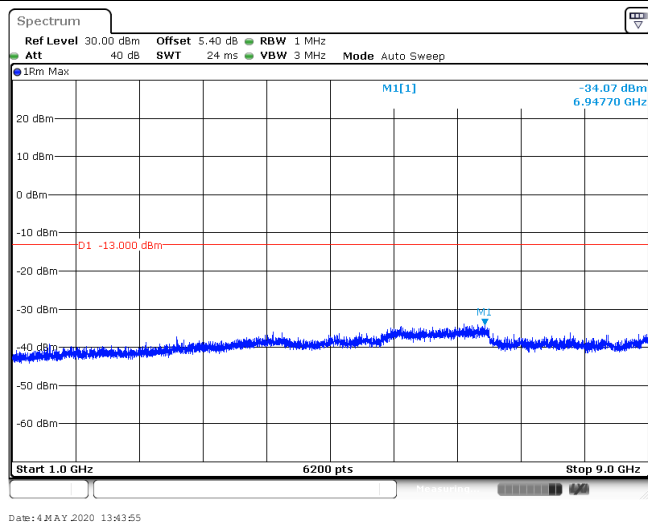
Band V\_4132







Band V\_4132



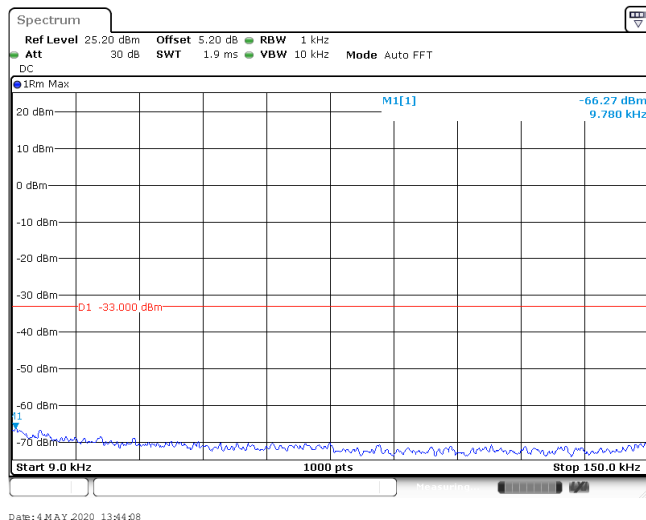
Band V\_4132



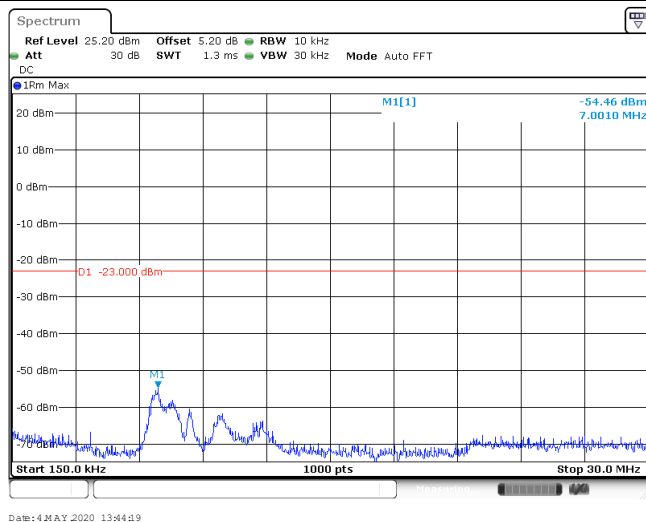
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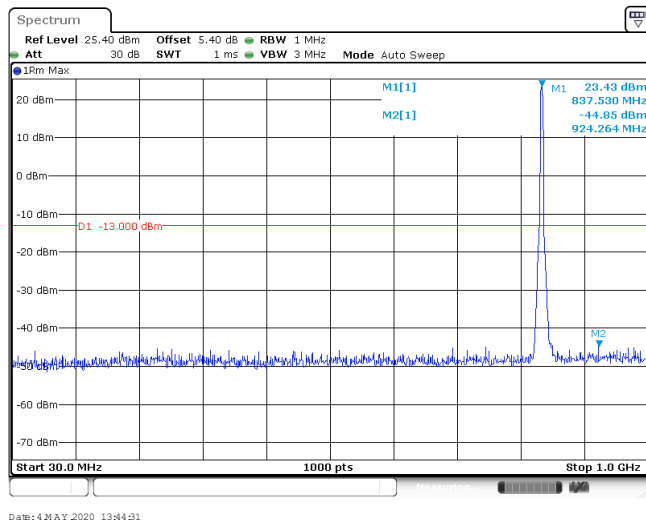


Band V\_4182

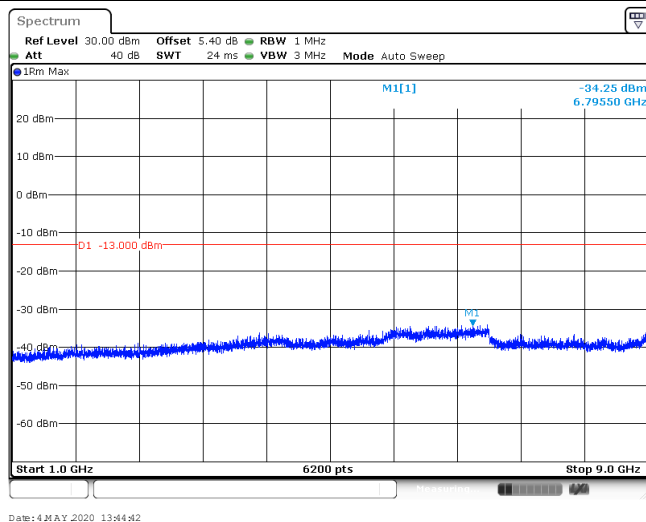


Band V\_4182





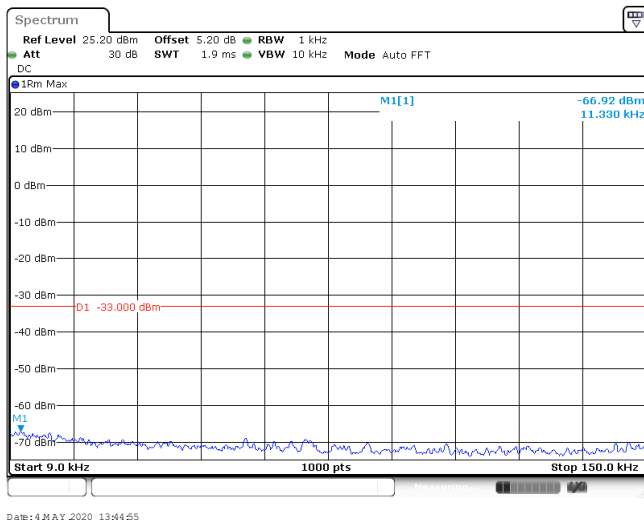
Band V\_4182



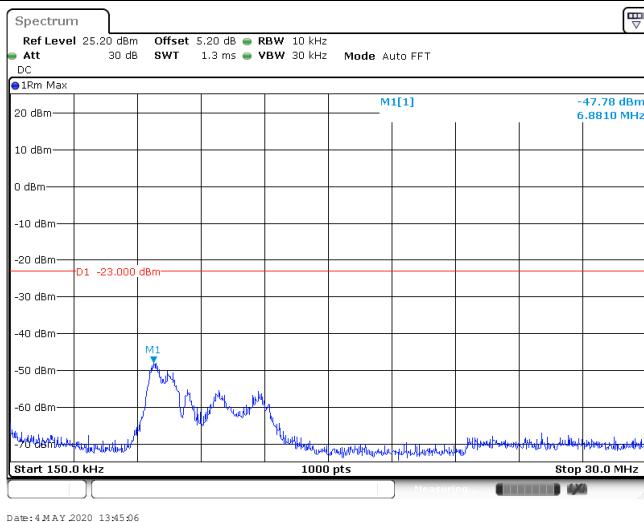
Band V\_4182



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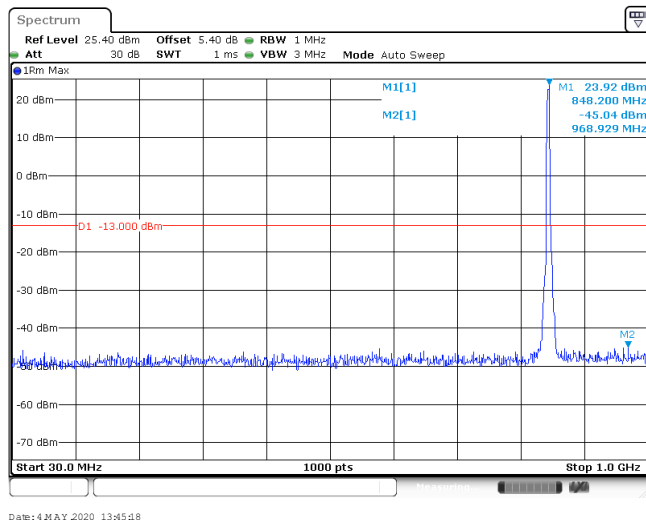


Band V\_4233

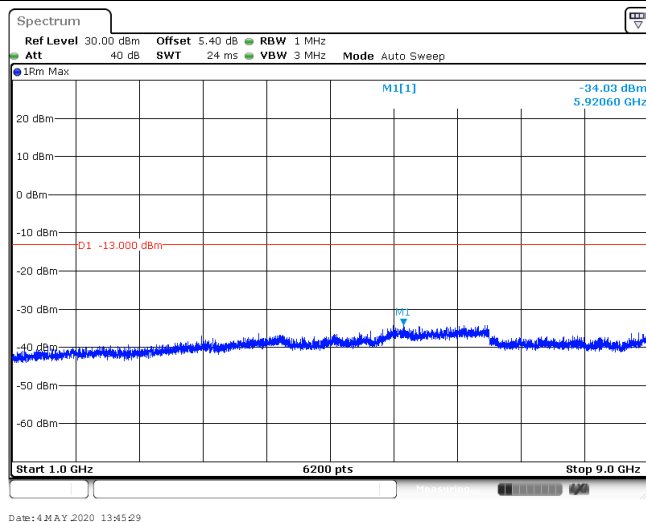


Band V\_4233





Band V\_4233



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)	Height [cm]	Angle [°]	Polarization
56.600000	-78.88	-13.00	65.88	232	23	Vertical
333.600000	-83.62	-13.00	70.62	238	53	Vertical
955.129167	-75.16	-13.00	62.16	177	74	Vertical
3854.100000	-66.78	-13.00	53.78	292	182	Vertical
5948.400000	-64.35	-13.00	51.35	136	142	Vertical
7991.512500	-62.59	-13.00	49.59	142	302	Vertical
57.100000	-74.99	-13.00	61.99	261	254	Horizontal
225.950000	-82.69	-13.00	69.69	300	109	Horizontal
932.945833	-75.24	-13.00	62.24	207	275	Horizontal
3706.875000	-66.83	-13.00	53.83	183	215	Horizontal
5827.012500	-65.31	-13.00	52.31	192	165	Horizontal
7865.250000	-62.41	-13.00	49.41	124	41	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
56.600000	-78.95	-13.00	65.95	286	48	Vertical
361.850000	-84.09	-13.00	71.09	146	212	Vertical
936.612500	-75.20	-13.00	62.20	235	117	Vertical
3830.700000	-66.89	-13.00	53.89	225	233	Vertical
5631.525000	-65.56	-13.00	52.56	103	319	Vertical
7703.887500	-63.42	-13.00	50.42	149	120	Vertical



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55.400000	-75.35	-13.00	62.35	226	209	Horizontal
227.250000	-82.54	-13.00	69.54	236	186	Horizontal
938.354167	-74.93	-13.00	61.93	232	135	Horizontal
3995.475000	-66.37	-13.00	53.37	263	294	Horizontal
5830.912500	-65.52	-13.00	52.52	140	334	Horizontal
7806.262500	-62.68	-13.00	49.68	116	106	Horizontal

### 7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
56.400000	-79.07	-13.00	66.07	197	345	Vertical
351.650000	-84.22	-13.00	71.22	146	297	Vertical
958.658333	-74.38	-13.00	61.38	129	69	Vertical
3816.562500	-65.85	-13.00	52.85	234	307	Vertical
5917.687500	-64.84	-13.00	51.84	217	56	Vertical
8077.312500	-63.09	-13.00	50.09	298	189	Vertical
56.800000	-74.83	-13.00	61.83	175	235	Horizontal
226.500000	-82.62	-13.00	69.62	199	60	Horizontal
959.850000	-74.22	-13.00	61.22	192	157	Horizontal
3805.350000	-66.83	-13.00	53.83	111	293	Horizontal
5508.675000	-65.41	-13.00	52.41	218	99	Horizontal
7487.925000	-63.47	-13.00	50.47	294	174	Horizontal

## 7.2. Test Band = WCDMA Band V

### 7.2.1. Test Mode = WCDMA/TM1

#### 7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
56.300000	-77.54	-13.00	64.54	113	98	Vertical
121.450000	-86.69	-13.00	73.69	241	86	Vertical
503.075000	-79.14	-13.00	66.14	278	281	Vertical



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1651.000000	-58.11	-13.00	45.11	119	290	Vertical
2652.500000	-56.96	-13.00	43.96	100	263	Vertical
3481.162500	-67.58	-13.00	54.58	139	30	Vertical
56.450000	-74.00	-13.00	61.00	263	341	Horizontal
229.400000	-81.64	-13.00	68.64	161	139	Horizontal
1654.500000	-60.62	-13.00	47.62	205	45	Horizontal
2581.500000	-58.34	-13.00	45.34	264	317	Horizontal
3357.337500	-67.96	-13.00	54.96	148	93	Horizontal
5939.137500	-64.47	-13.00	51.47	205	312	Horizontal

### 7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
55.850000	-76.73	-13.00	63.73	119	349	Vertical
125.000000	-86.03	-13.00	73.03	256	77	Vertical
322.900000	-83.04	-13.00	70.04	207	86	Vertical
1674.500000	-55.01	-13.00	42.01	162	318	Vertical
2616.000000	-54.41	-13.00	41.41	299	17	Vertical
4318.200000	-65.45	-13.00	52.45	249	250	Vertical
55.900000	-73.93	-13.00	60.93	290	153	Horizontal
223.600000	-80.62	-13.00	67.62	188	176	Horizontal
1671.500000	-57.67	-13.00	44.67	214	192	Horizontal
2617.000000	-52.92	-13.00	39.92	278	7	Horizontal
3836.550000	-66.60	-13.00	53.60	191	116	Horizontal
6154.612500	-64.35	-13.00	51.35	128	80	Horizontal

### 7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
56.000000	-77.92	-13.00	64.92	184	107	Vertical
125.000000	-85.89	-13.00	72.89	184	114	Vertical
471.175000	-79.62	-13.00	66.62	240	25	Vertical



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1691.500000	-57.40	-13.00	44.40	228	89	Vertical
2583.000000	-57.85	-13.00	44.85	279	37	Vertical
3459.712500	-67.42	-13.00	54.42	200	31	Vertical
56.250000	-74.36	-13.00	61.36	232	8	Horizontal
227.650000	-81.50	-13.00	68.50	178	322	Horizontal
614.679167	-75.72	-13.00	62.72	291	252	Horizontal
1691.500000	-58.99	-13.00	45.99	179	58	Horizontal
2584.000000	-58.36	-13.00	45.36	138	191	Horizontal
3358.312500	-67.91	-13.00	54.91	108	72	Horizontal

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

Band	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VL	TN	15.00	0.008096	±2.5	PASS
Band II	QPSK	9262	VN	TN	3.37	0.001821	±2.5	PASS
Band II	QPSK	9262	VH	TN	-9.47	-0.005113	±2.5	PASS
Band II	QPSK	9400	VL	TN	-9.67	-0.005144	±2.5	PASS
Band II	QPSK	9400	VN	TN	-5.25	-0.002791	±2.5	PASS
Band II	QPSK	9400	VH	TN	10.41	0.005536	±2.5	PASS
Band II	QPSK	9538	VL	TN	9.87	0.005174	±2.5	PASS
Band II	QPSK	9538	VN	TN	-4.83	-0.002531	±2.5	PASS
Band II	QPSK	9538	VH	TN	-7.73	-0.004053	±2.5	PASS
Band V	QPSK	4132	VL	TN	6.63	0.008022	±2.5	PASS
Band V	QPSK	4132	VN	TN	-11.92	-0.014428	±2.5	PASS
Band V	QPSK	4132	VH	TN	1.79	0.002161	±2.5	PASS
Band V	QPSK	4182	VL	TN	-10.74	-0.012842	±2.5	PASS
Band V	QPSK	4182	VN	TN	13.05	0.015608	±2.5	PASS
Band V	QPSK	4182	VH	TN	-6.13	-0.007329	±2.5	PASS
Band V	QPSK	4233	VL	TN	6.11	0.007222	±2.5	PASS
Band V	QPSK	4233	VN	TN	-8.64	-0.010210	±2.5	PASS
Band V	QPSK	4233	VH	TN	-13.33	-0.015742	±2.5	PASS

### 8.1. Frequency Vs Temperature

Band	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VN	-30	2.09	0.001127	±2.5	PASS
Band II	QPSK	9262	VN	-20	2.56	0.001382	±2.5	PASS
Band II	QPSK	9262	VN	-10	13.36	0.007214	±2.5	PASS
Band II	QPSK	9262	VN	0	0.96	0.000519	±2.5	PASS
Band II	QPSK	9262	VN	10	-8.66	-0.004678	±2.5	PASS
Band II	QPSK	9262	VN	20	7.52	0.004059	±2.5	PASS
Band II	QPSK	9262	VN	30	3.95	0.002134	±2.5	PASS
Band II	QPSK	9262	VN	40	10.32	0.005571	±2.5	PASS
Band II	QPSK	9262	VN	50	8.36	0.004511	±2.5	PASS



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Band II	QPSK	9400	VN	-30	1.83	0.000974	±2.5	PASS
Band II	QPSK	9400	VN	-20	9.43	0.005016	±2.5	PASS
Band II	QPSK	9400	VN	-10	0.26	0.000137	±2.5	PASS
Band II	QPSK	9400	VN	0	-8.06	-0.004287	±2.5	PASS
Band II	QPSK	9400	VN	10	12.62	0.006712	±2.5	PASS
Band II	QPSK	9400	VN	20	2.59	0.001379	±2.5	PASS
Band II	QPSK	9400	VN	30	-8.18	-0.004350	±2.5	PASS
Band II	QPSK	9400	VN	40	-0.05	-0.000025	±2.5	PASS
Band II	QPSK	9400	VN	50	1.62	0.000859	±2.5	PASS
Band II	QPSK	9538	VN	-30	-1.38	-0.000723	±2.5	PASS
Band II	QPSK	9538	VN	-20	13.16	0.006900	±2.5	PASS
Band II	QPSK	9538	VN	-10	-2.04	-0.001070	±2.5	PASS
Band II	QPSK	9538	VN	0	-13.28	-0.006961	±2.5	PASS
Band II	QPSK	9538	VN	10	-10.79	-0.005656	±2.5	PASS
Band II	QPSK	9538	VN	20	-13.31	-0.006979	±2.5	PASS
Band II	QPSK	9538	VN	30	8.98	0.004710	±2.5	PASS
Band II	QPSK	9538	VN	40	-1.45	-0.000758	±2.5	PASS
Band II	QPSK	9538	VN	50	-0.56	-0.000294	±2.5	PASS
Band V	QPSK	4132	VN	-30	0.32	0.000391	±2.5	PASS
Band V	QPSK	4132	VN	-20	1.79	0.002161	±2.5	PASS
Band V	QPSK	4132	VN	-10	-1.37	-0.001653	±2.5	PASS
Band V	QPSK	4132	VN	0	-10.63	-0.012864	±2.5	PASS
Band V	QPSK	4132	VN	10	1.49	0.001803	±2.5	PASS
Band V	QPSK	4132	VN	20	1.00	0.001209	±2.5	PASS
Band V	QPSK	4132	VN	30	11.00	0.013315	±2.5	PASS
Band V	QPSK	4132	VN	40	2.91	0.003527	±2.5	PASS
Band V	QPSK	4132	VN	50	12.63	0.015281	±2.5	PASS
Band V	QPSK	4182	VN	-30	8.11	0.009692	±2.5	PASS
Band V	QPSK	4182	VN	-20	-6.06	-0.007248	±2.5	PASS
Band V	QPSK	4182	VN	-10	1.42	0.001700	±2.5	PASS
Band V	QPSK	4182	VN	0	6.78	0.008111	±2.5	PASS
Band V	QPSK	4182	VN	10	0.04	0.000054	±2.5	PASS
Band V	QPSK	4182	VN	20	2.32	0.002772	±2.5	PASS
Band V	QPSK	4182	VN	30	-3.23	-0.003867	±2.5	PASS
Band V	QPSK	4182	VN	40	6.11	0.007310	±2.5	PASS
Band V	QPSK	4182	VN	50	-10.47	-0.012521	±2.5	PASS
Band V	QPSK	4233	VN	-30	7.29	0.008614	±2.5	PASS
Band V	QPSK	4233	VN	-20	-12.42	-0.014667	±2.5	PASS



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Band V	QPSK	4233	VN	-10	4.44	0.005250	±2.5	PASS
Band V	QPSK	4233	VN	0	-8.56	-0.010109	±2.5	PASS
Band V	QPSK	4233	VN	10	2.25	0.002654	±2.5	PASS
Band V	QPSK	4233	VN	20	0.89	0.001048	±2.5	PASS
Band V	QPSK	4233	VN	30	-9.92	-0.011714	±2.5	PASS
Band V	QPSK	4233	VN	40	-7.17	-0.008469	±2.5	PASS
Band V	QPSK	4233	VN	50	11.37	0.013431	±2.5	PASS

The End

