



# 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	22.45	20.35	33.00	PASS
Band II	9400	22.68	20.58	33.00	PASS
Band II	9538	22.50	20.40	33.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	22.69	16.94	38.45	PASS
Band V	4182	22.75	17.00	38.45	PASS
Band V	4233	22.84	17.09	38.45	PASS

Remark:

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

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

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



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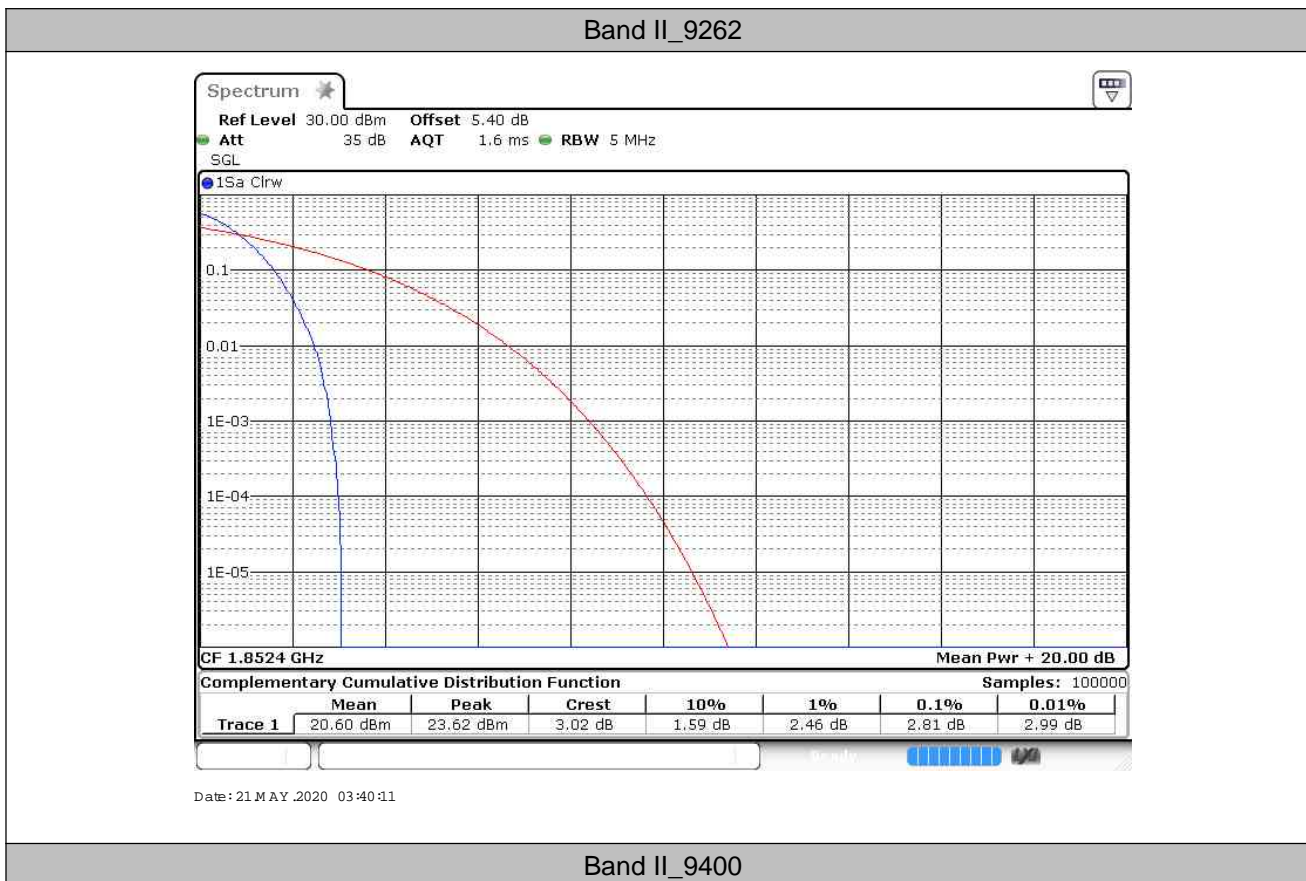


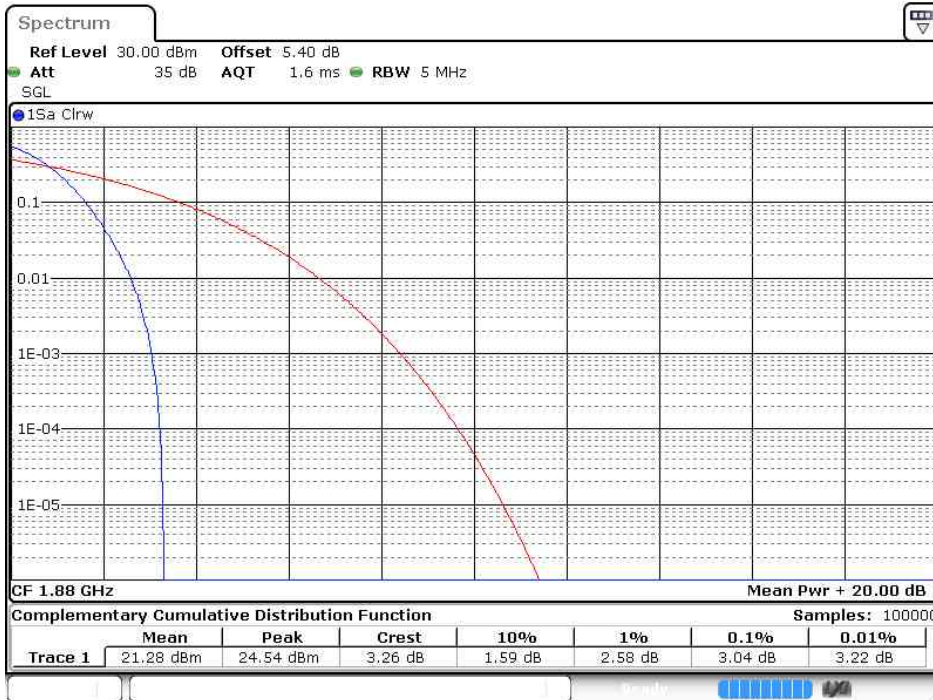
## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.81	13	PASS
Band II	9400	3.04	13	PASS
Band II	9538	2.67	13	PASS
Band V	4132	2.78	13	PASS
Band V	4182	3.19	13	PASS
Band V	4233	3.01	13	PASS

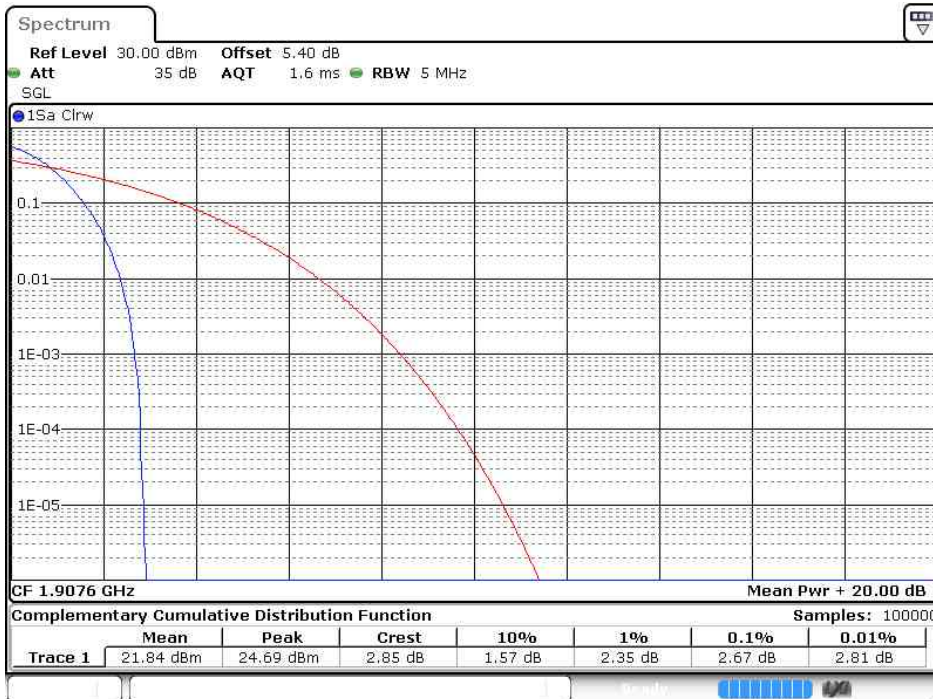
### 2.2. Test Plots





Date: 21 MAY 2020 03:40:29

**Band II\_9538**

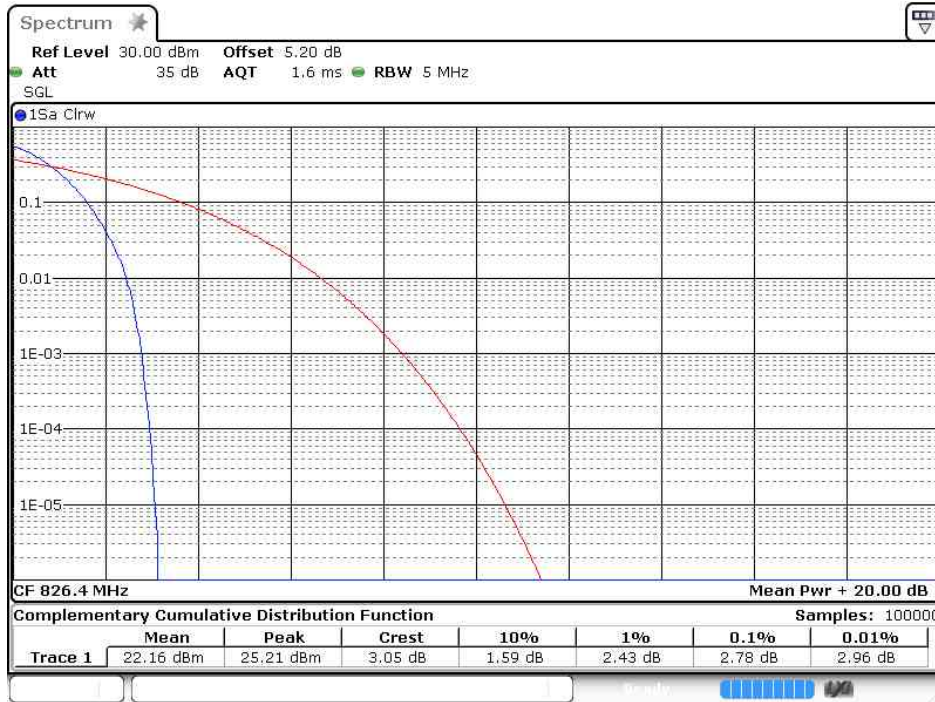


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Band V\_4132



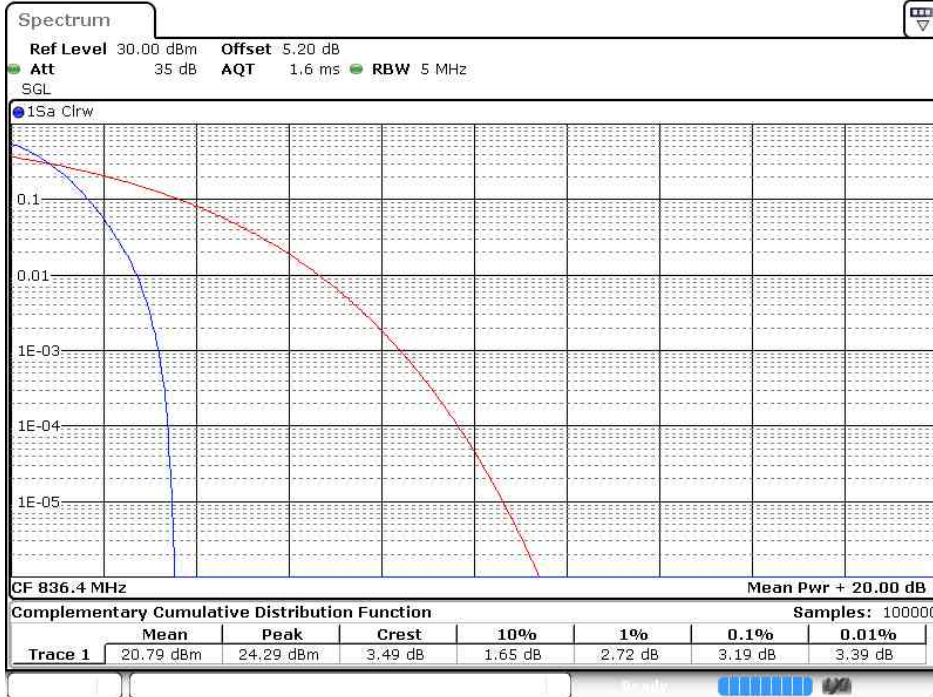
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Band V\_4182



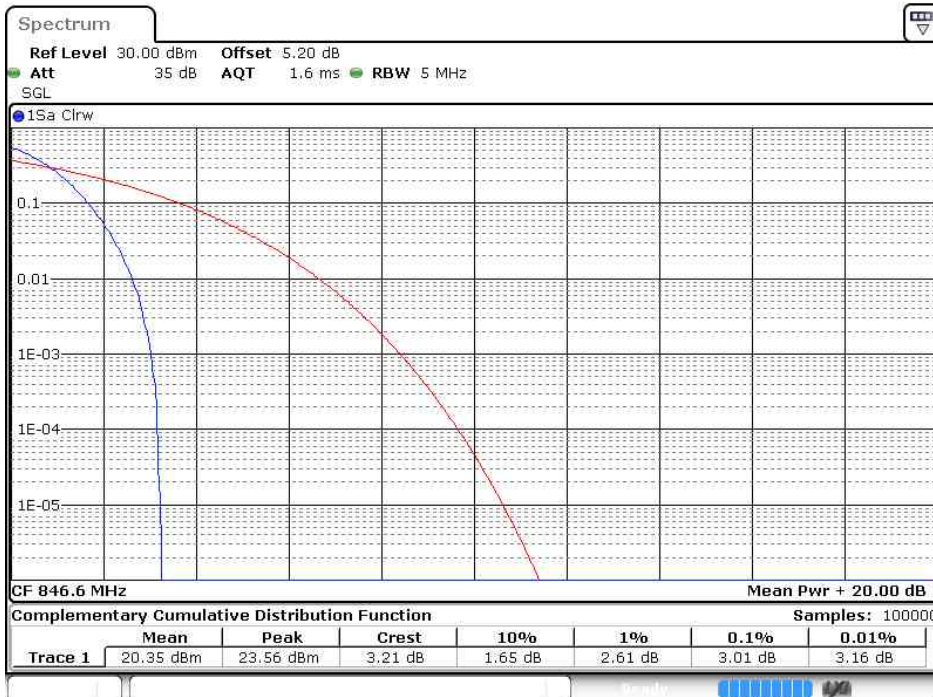
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**Band V\_4233**



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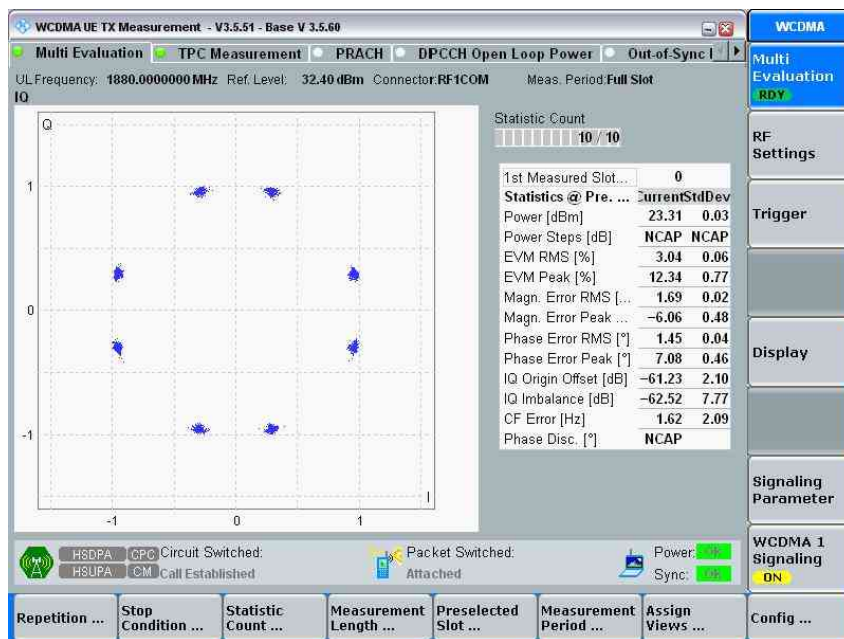


### 3. Modulation Characteristics

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

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

##### 3.1.1.1. Test Channel = MCH



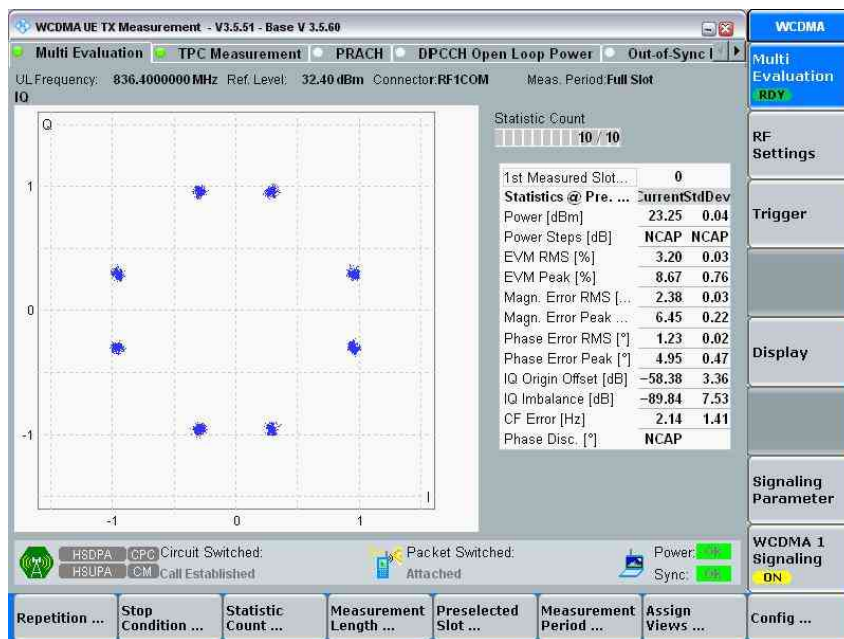
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### 3.2. Test Band = WCDMA Band V

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

##### 3.2.1.1. Test Channel = MCH



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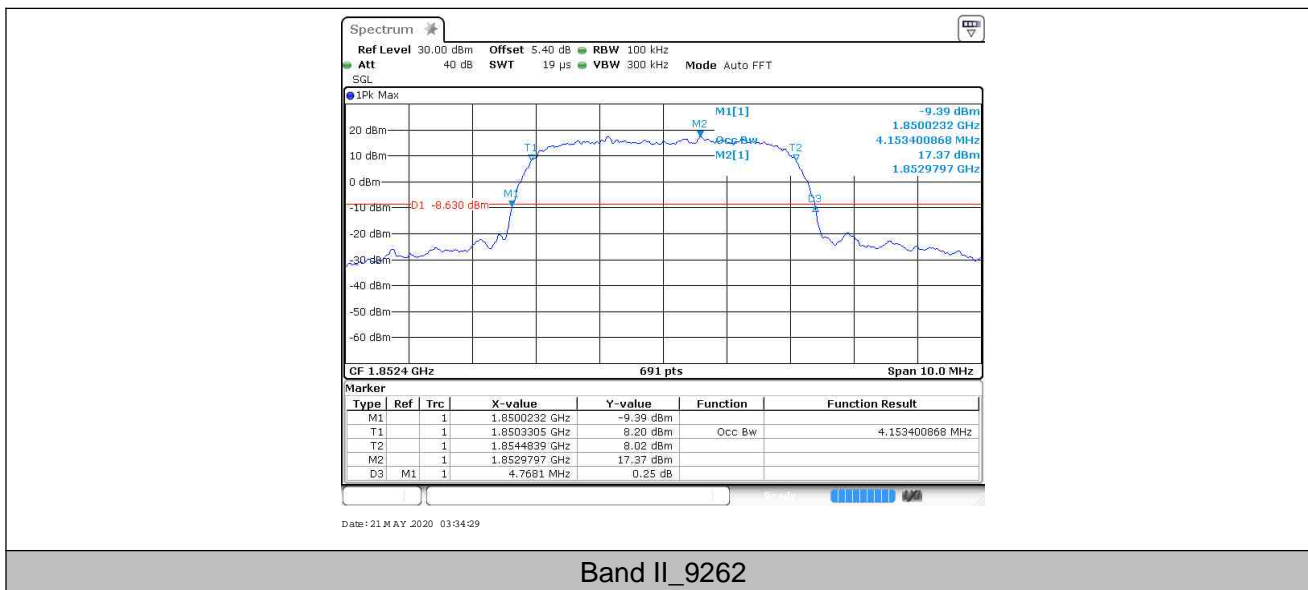


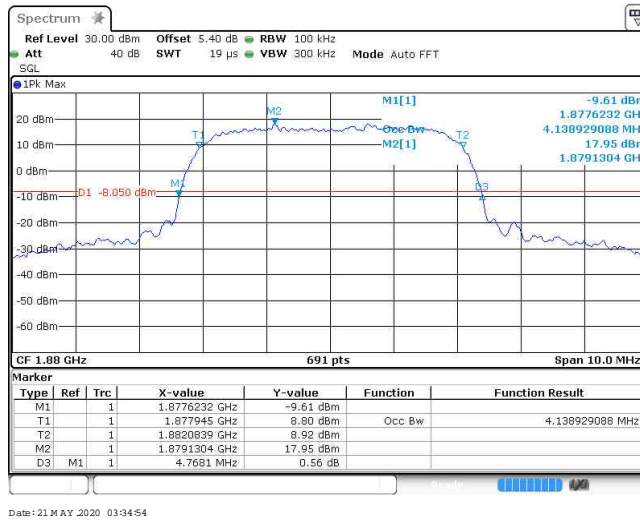
## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

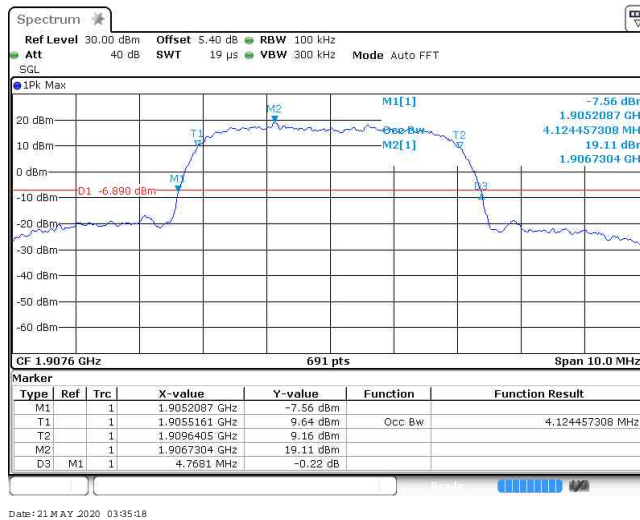
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4153.4	4768	---	PASS
Band II	9400	4138.9	4768	---	PASS
Band II	9538	4124.5	4768	---	PASS
Band V	4132	4138.9	4754	---	PASS
Band V	4182	4124.5	4725	---	PASS
Band V	4233	4124.5	4739	---	PASS

### 4.2. Test Plots





**Band II\_9400**



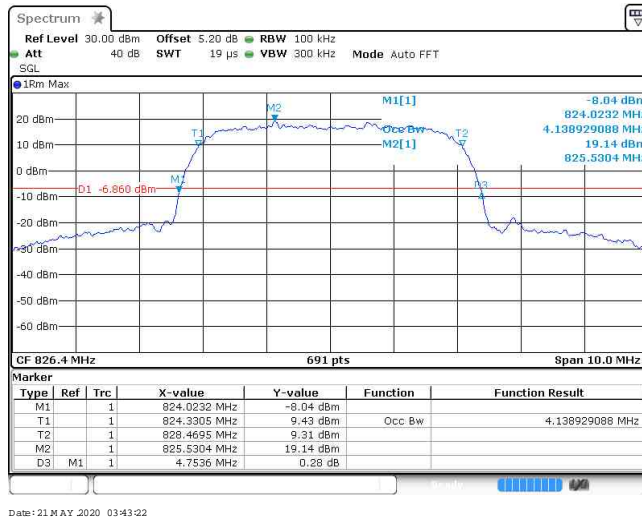
**Band II\_9538**



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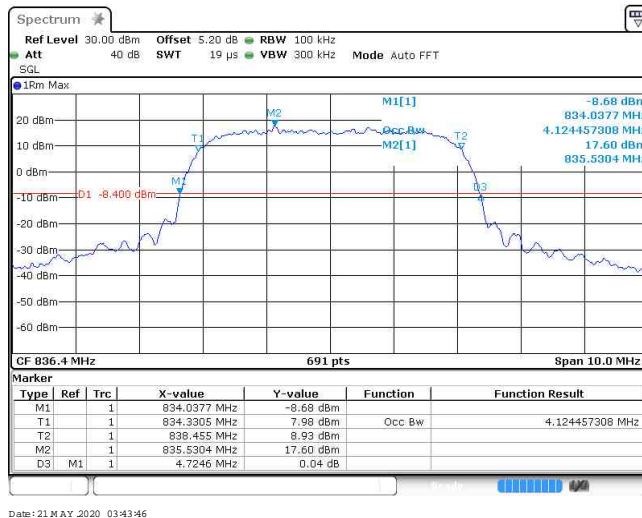
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**Band V\_4132**



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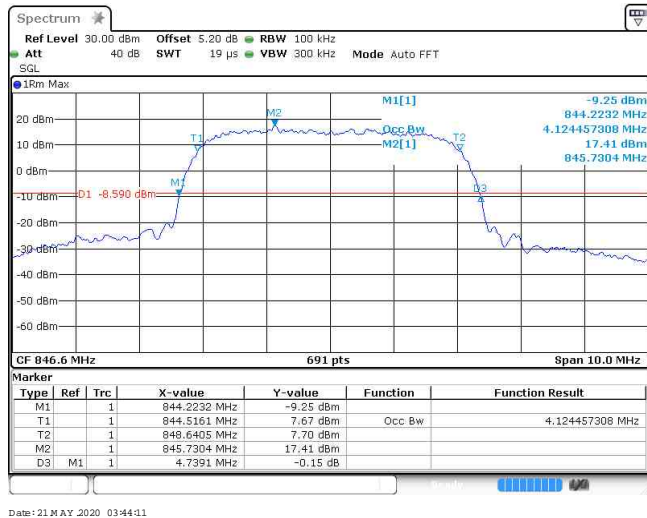
**Band V\_4182**



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Band V\_4233



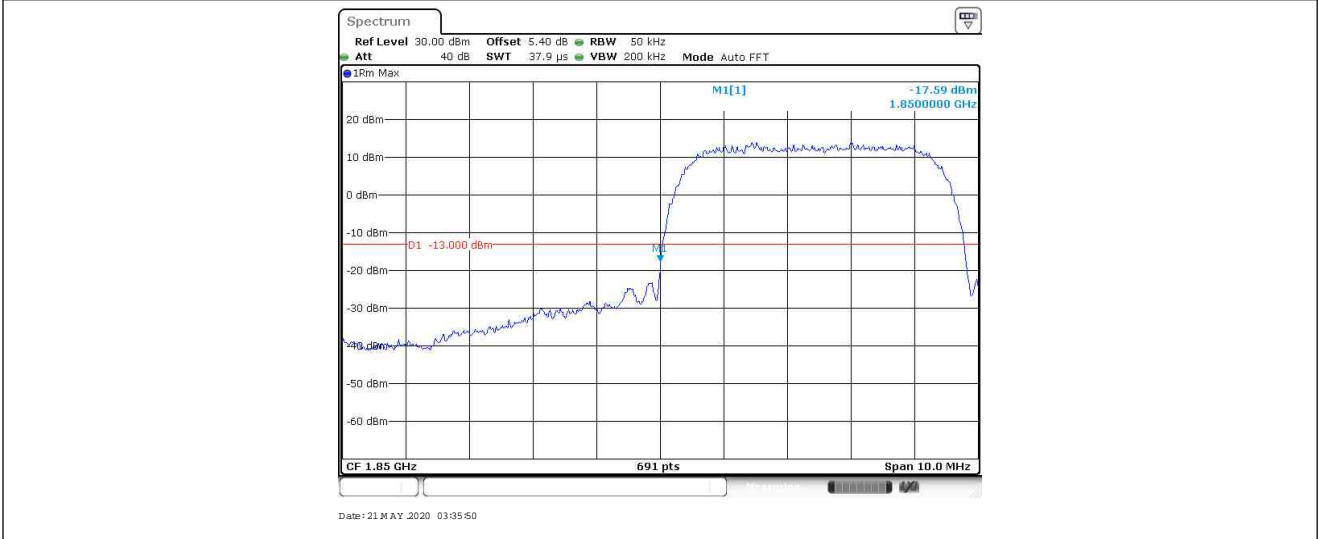
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## 5. Band Edge Compliance

### 5.1. Test Plots



Band II\_9262

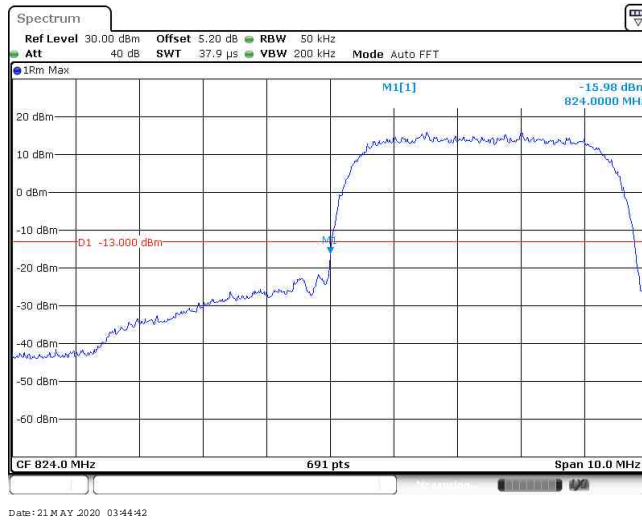


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Band V\_4132



Date: 21 MAY 2020 03:45:00

Band V\_4233



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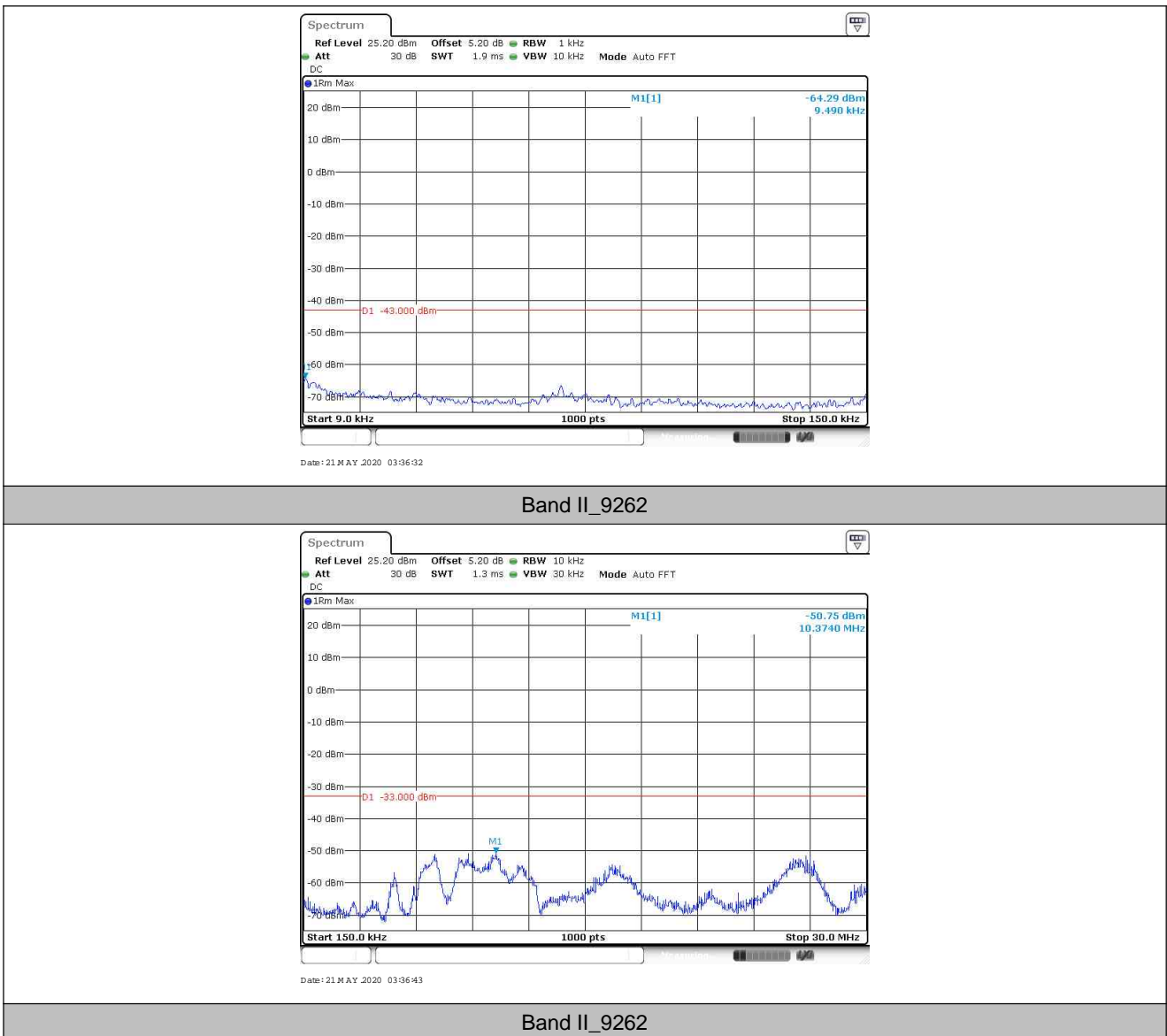


## 6. Spurious Emission at Antenna Terminal

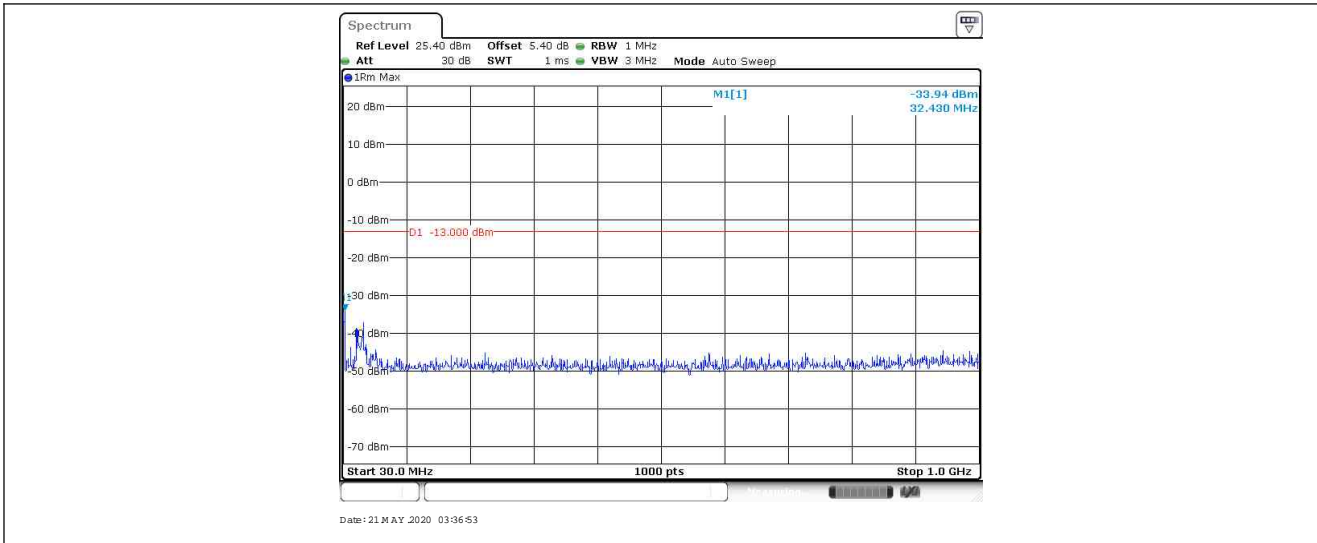
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " 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.

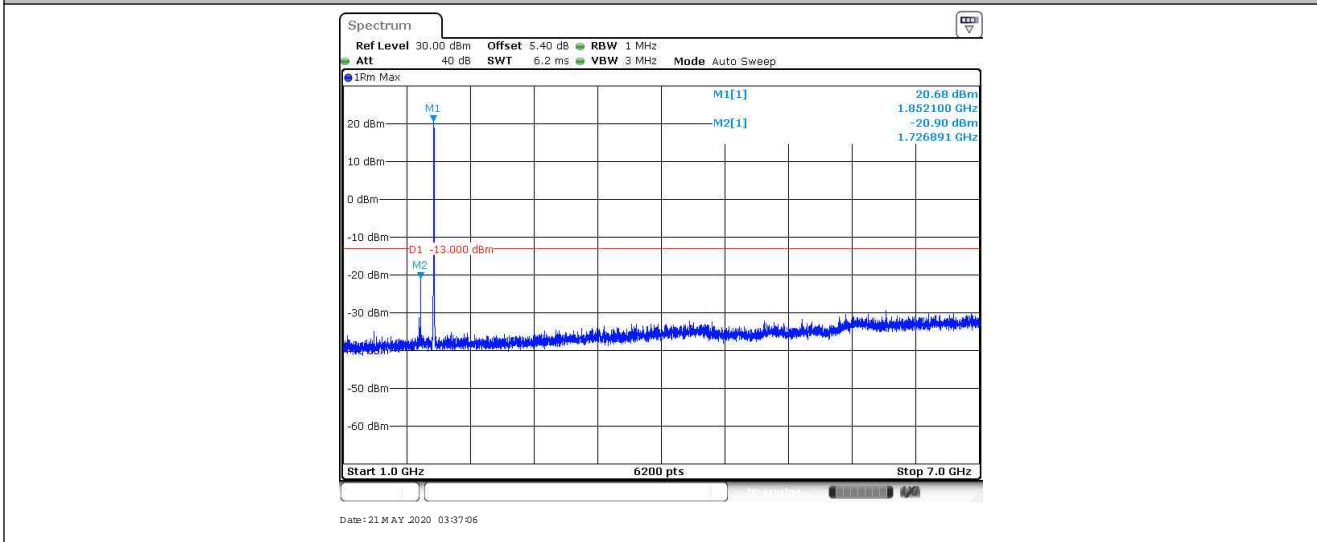
### 6.1. Test Plots



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Band II\_9262

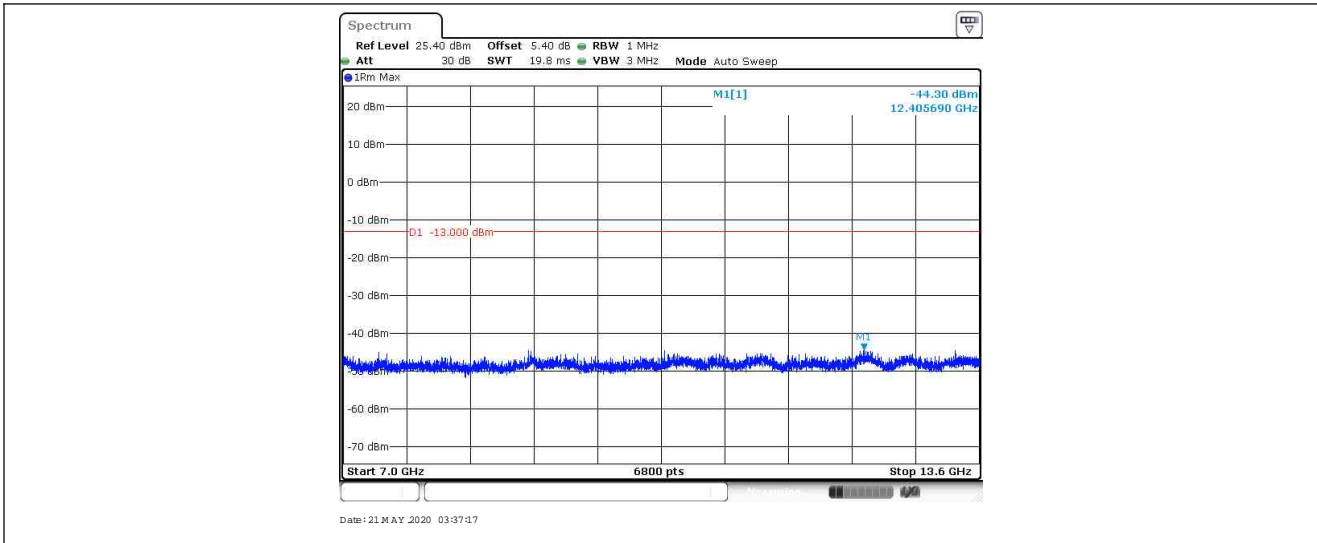


Band II\_9262

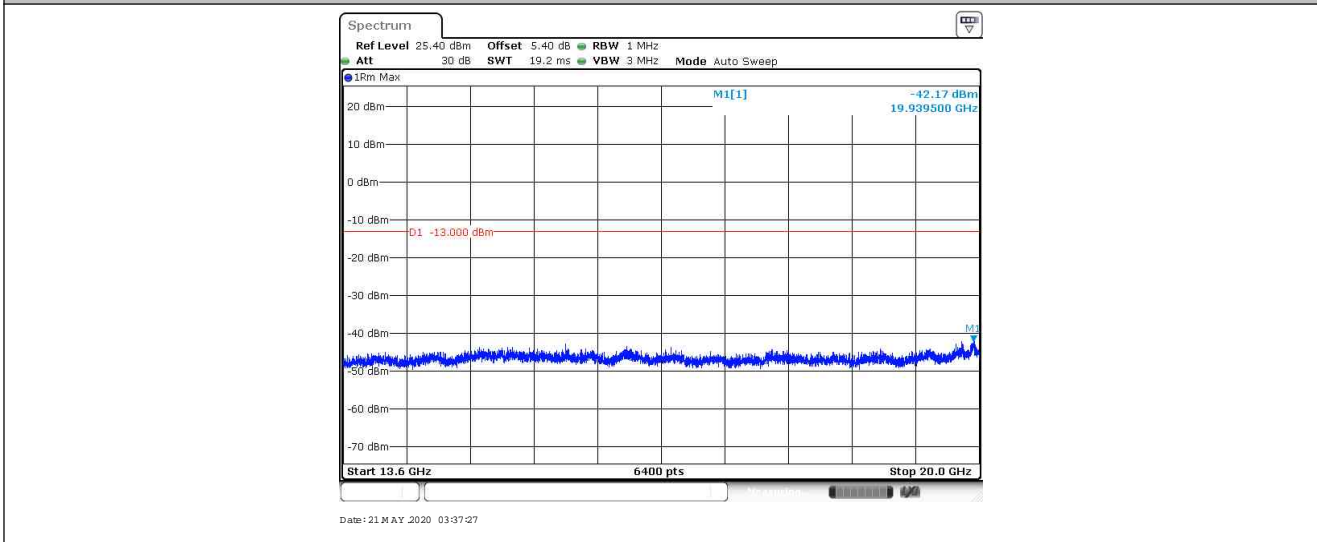


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Band II\_9262

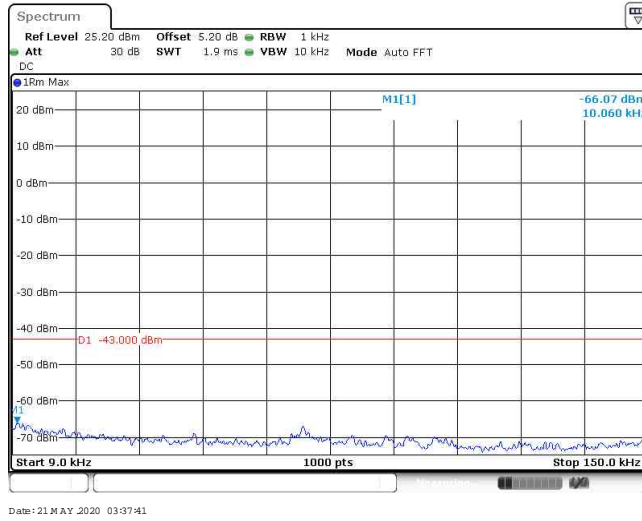


Band II\_9262

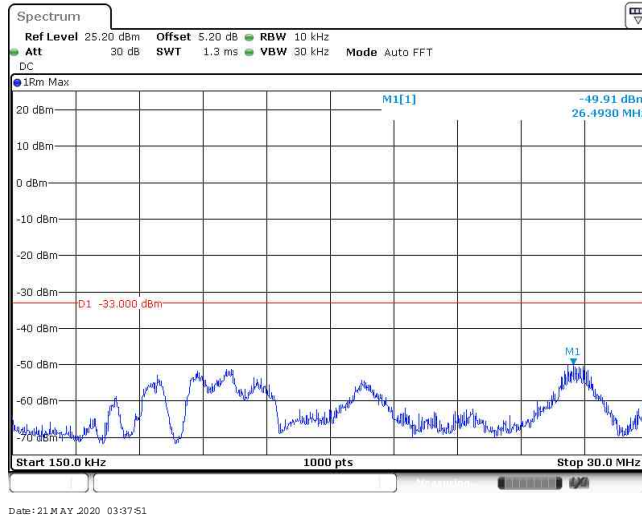


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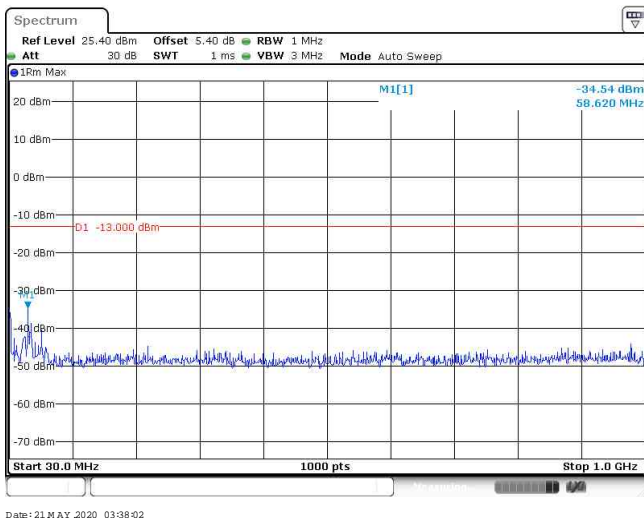


Band II\_9400



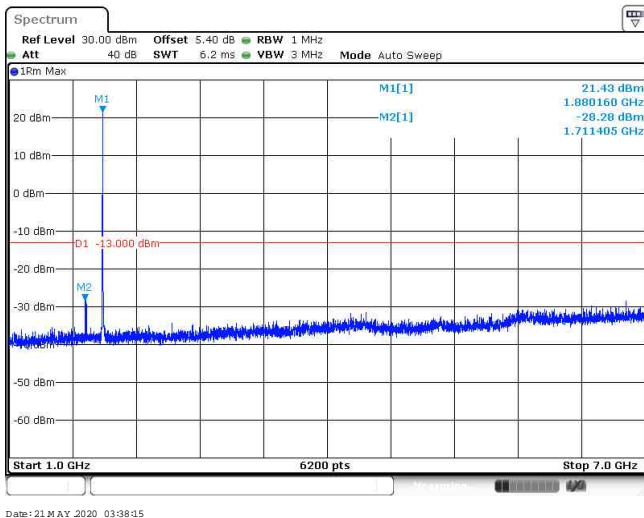
Band II\_9400





Date: 21 MAY 2020 03:38:02

Band II\_9400



Date: 21 MAY 2020 03:38:45

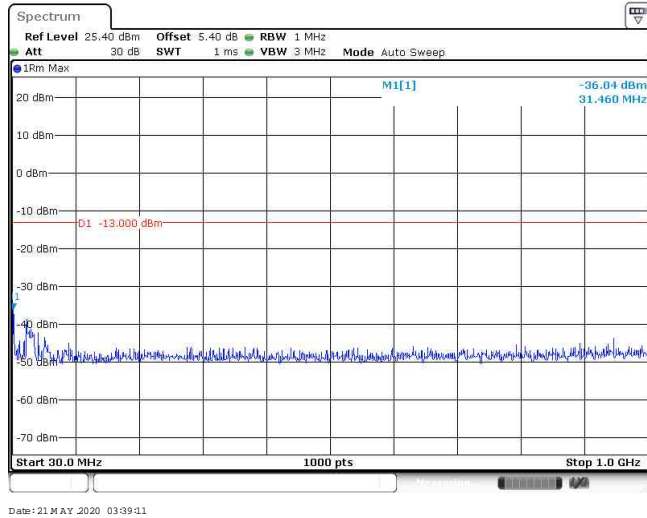
Band II\_9400



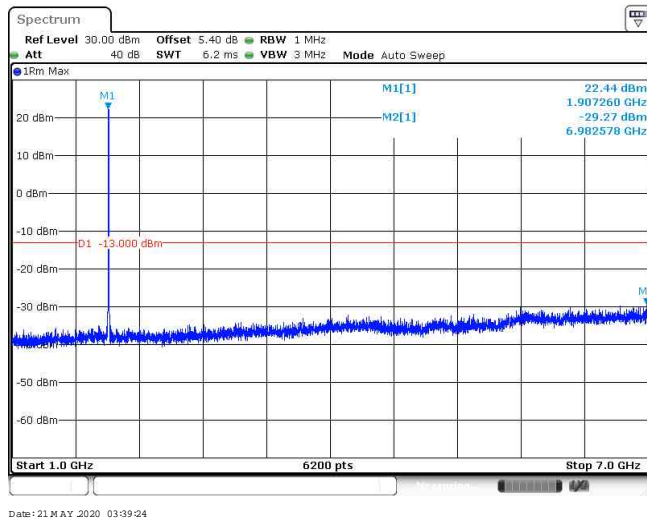
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Band II\_9538



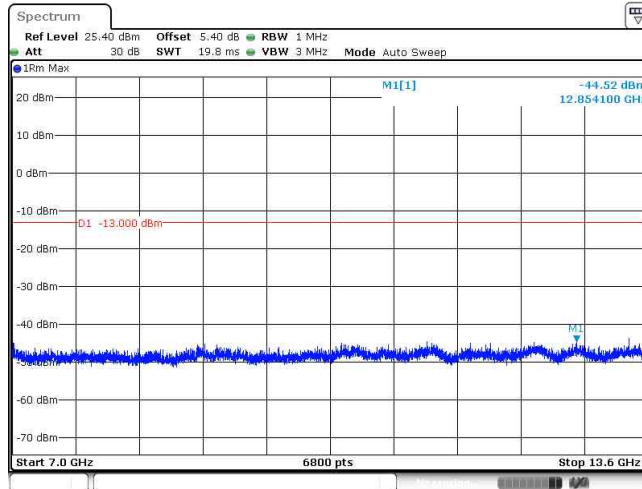
Band II\_9538



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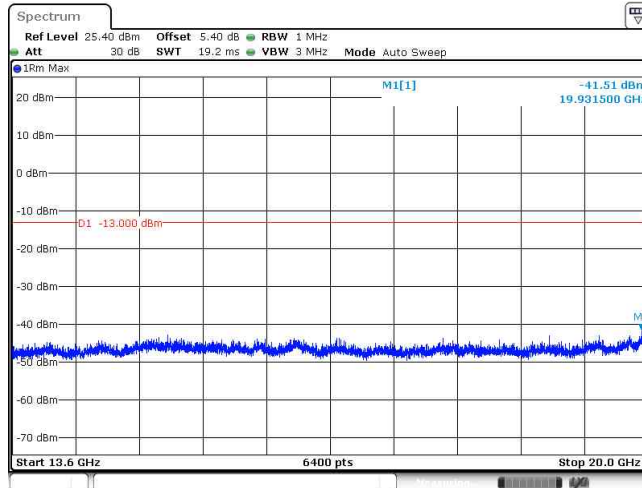
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Date: 21 MAY 2020 03:39:35

**Band II\_9538**



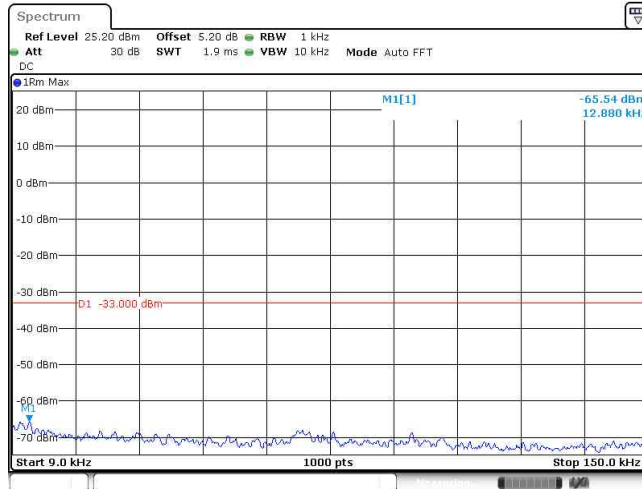
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**Band II\_9538**



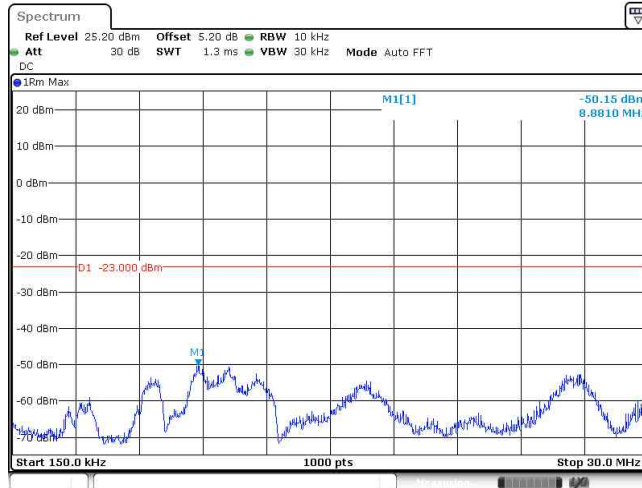
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Date: 21 MAY 2020 03:45:27

Band V\_4132

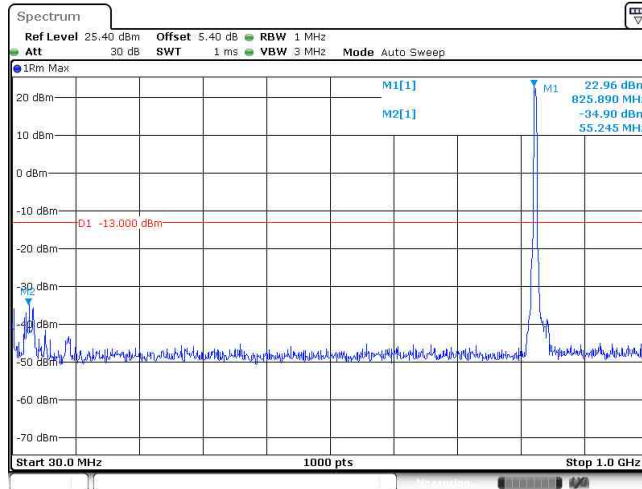


Date: 21 MAY 2020 03:45:38

Band V\_4132

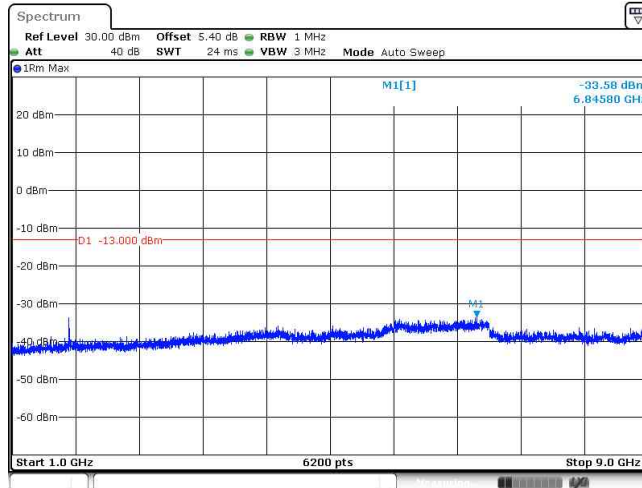


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Date: 21 MAY 2020 03:45:50

Band V\_4132

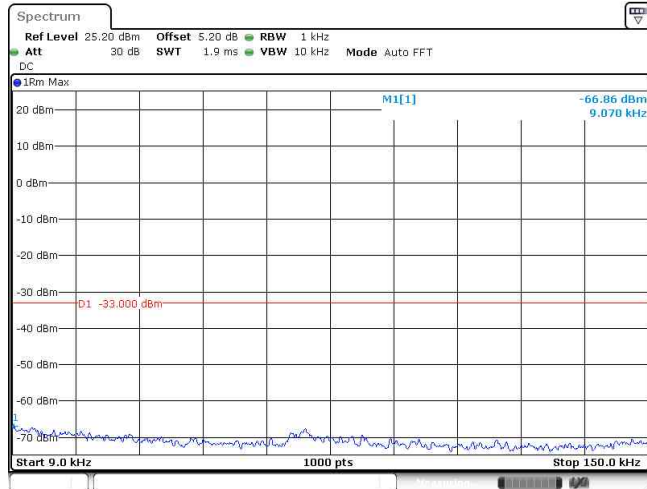


Date: 21 MAY 2020 03:46:01

Band V\_4132

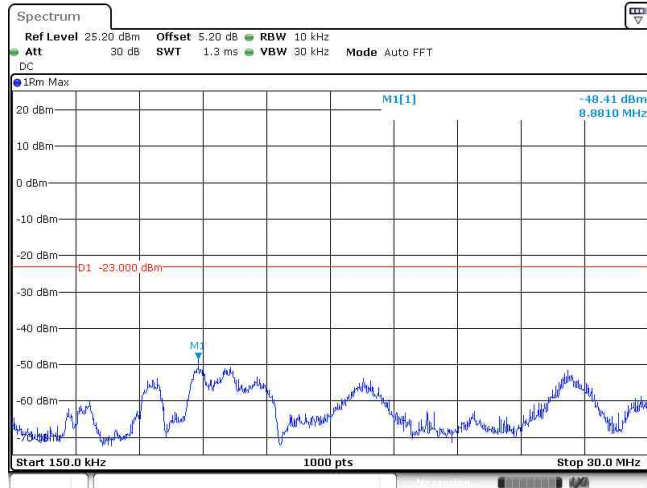


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Date: 21 MAY 2020 03:46:14

**Band V\_4182**

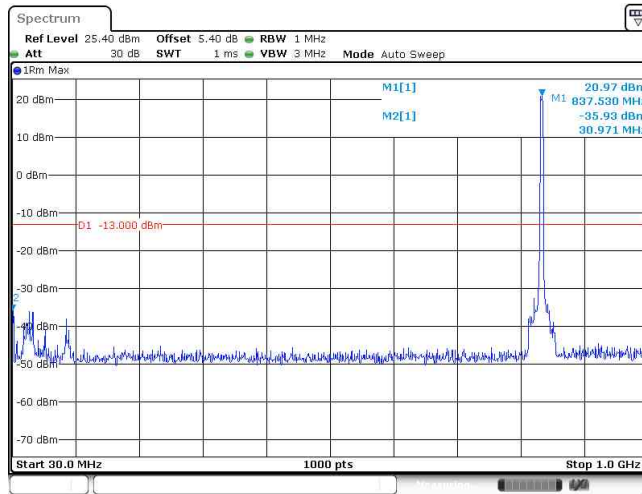


Date: 21 MAY 2020 03:46:25

**Band V\_4182**

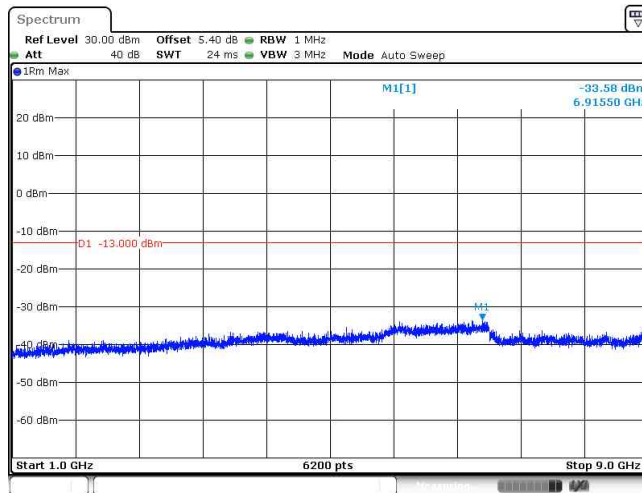


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Date: 21 MAY 2020 03:46:37

**Band V\_4182**



Date: 21 MAY 2020 03:46:48

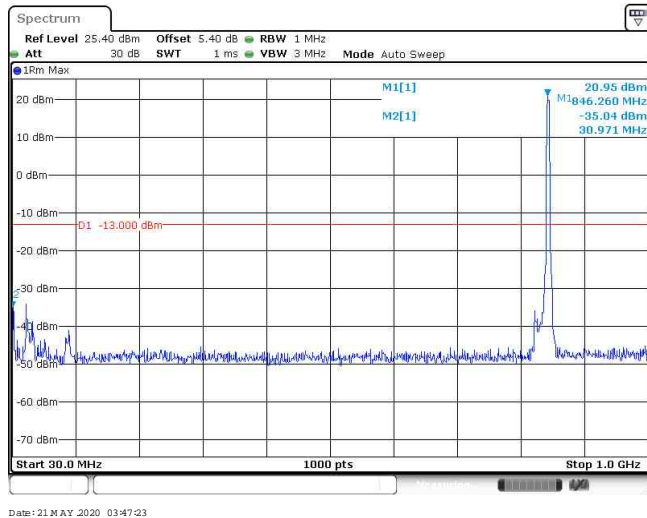
**Band V\_4182**



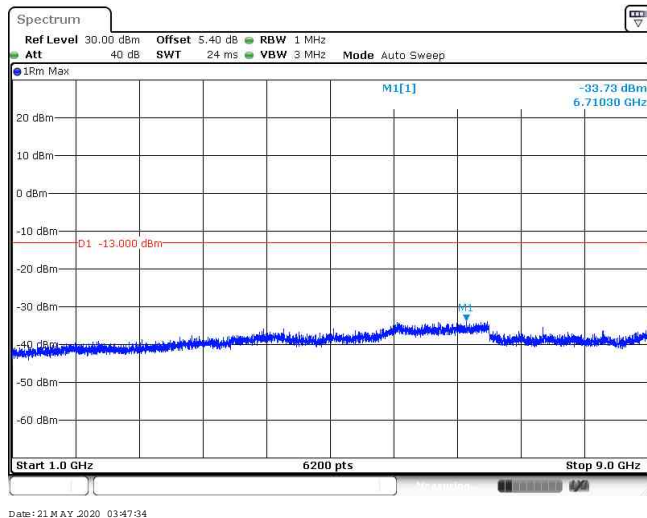
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Band V\_4233



Band V\_4233





## 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
111.3871	-64.99	-13.00	51.99	Vertical
3706.5236	-54.91	-13.00	41.91	Vertical
5555.0852	-53.71	-13.00	40.71	Vertical
7412.6471	-43.56	-13.00	30.56	Vertical
14467.8823	-47.80	-13.00	34.80	Vertical
17997.4999	-40.03	-13.00	27.03	Vertical
42.2711	-64.16	-13.00	51.16	Horizontal
3706.5236	-52.35	-13.00	39.35	Horizontal
5554.0851	-53.01	-13.00	40.01	Horizontal
7406.1469	-43.15	-13.00	30.15	Horizontal
9257.7086	-49.02	-13.00	36.02	Horizontal
16387.4462	-43.76	-13.00	30.76	Horizontal



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**7.1.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.9206	-63.60	-13.00	50.60	Vertical
3761.5254	-55.92	-13.00	42.92	Vertical
5637.5879	-55.71	-13.00	42.71	Vertical
7517.1506	-42.44	-13.00	29.44	Vertical
14478.8826	-47.90	-13.00	34.90	Vertical
17996.9999	-40.72	-13.00	27.72	Vertical
38.5849	-63.78	-13.00	50.78	Horizontal
3762.0254	-54.13	-13.00	41.13	Horizontal
5642.5881	-53.16	-13.00	40.16	Horizontal
7523.1508	-42.35	-13.00	29.35	Horizontal
16394.4465	-43.64	-13.00	30.64	Horizontal
17997.4999	-45.14	-13.00	32.14	Horizontal

**7.1.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.2829	-64.28	-13.00	51.28	Vertical
3813.0271	-56.82	-13.00	43.82	Vertical
5725.5909	-54.31	-13.00	41.31	Vertical
7627.1542	-44.70	-13.00	31.70	Vertical
14486.3829	-47.55	-13.00	34.55	Vertical
17999.0000	-40.14	-13.00	27.14	Vertical
44.8417	-63.38	-13.00	50.38	Horizontal
248.3579	-68.54	-13.00	55.54	Horizontal
3813.5271	-54.23	-13.00	41.23	Horizontal
5720.5907	-53.33	-13.00	40.33	Horizontal
7625.6542	-44.19	-13.00	31.19	Horizontal
9542.7181	-51.81	-13.00	38.81	Horizontal



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## 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)	Polarization
105.2273	-66.20	-13.00	53.20	Vertical
1651.3303	-59.35	-13.00	46.35	Vertical
4136.5379	-62.88	-13.00	49.88	Vertical
4965.0655	-60.15	-13.00	47.15	Vertical
5793.0931	-59.13	-13.00	46.13	Vertical
17997.4999	-40.28	-13.00	27.28	Vertical
39.3125	-63.74	-13.00	50.74	Horizontal
1651.3303	-58.42	-13.00	45.42	Horizontal
4127.5376	-60.83	-13.00	47.83	Horizontal
4960.5654	-57.99	-13.00	44.99	Horizontal
5791.5931	-56.23	-13.00	43.23	Horizontal
16399.4466	-43.88	-13.00	30.88	Horizontal



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**7.2.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
116.5768	-65.79	-13.00	52.79	Vertical
1674.5349	-57.11	-13.00	44.11	Vertical
5011.0670	-60.76	-13.00	47.76	Vertical
5851.5951	-61.30	-13.00	48.30	Vertical
10615.2538	-51.89	-13.00	38.89	Vertical
17995.9999	-40.12	-13.00	27.12	Vertical
39.4580	-64.81	-13.00	51.81	Horizontal
521.2811	-65.07	-13.00	52.07	Horizontal
1674.5349	-58.35	-13.00	45.35	Horizontal
5016.0672	-59.19	-13.00	46.19	Horizontal
5848.0949	-59.20	-13.00	46.20	Horizontal
16396.4465	-44.14	-13.00	31.14	Horizontal

**7.2.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.5625	-65.26	-13.00	52.26	Vertical
1691.7383	-57.70	-13.00	44.70	Vertical
5085.5695	-59.99	-13.00	46.99	Vertical
5933.5978	-59.65	-13.00	46.65	Vertical
14478.3826	-47.95	-13.00	34.95	Vertical
17999.0000	-40.01	-13.00	27.01	Vertical
41.2526	-64.22	-13.00	51.22	Horizontal
580.3570	-63.75	-13.00	50.75	Horizontal
1691.3383	-58.91	-13.00	45.91	Horizontal
5081.0694	-56.92	-13.00	43.92	Horizontal
5922.5974	-57.67	-13.00	44.67	Horizontal
16399.9467	-43.71	-13.00	30.71	Horizontal

Remark:



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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	-3.53	-0.001906	±2.5	PASS
Band II	9262	VN	TN	-1.74	-0.000941	±2.5	PASS
Band II	9262	VH	TN	-5.17	-0.002793	±2.5	PASS
Band II	9400	VL	TN	-4.80	-0.002551	±2.5	PASS
Band II	9400	VN	TN	-9.00	-0.004789	±2.5	PASS
Band II	9400	VH	TN	-10.21	-0.005432	±2.5	PASS
Band II	9538	VL	TN	-15.00	-0.007861	±2.5	PASS
Band II	9538	VN	TN	-14.11	-0.007395	±2.5	PASS
Band II	9538	VH	TN	5.55	0.002907	±2.5	PASS
Band V	4132	VL	TN	-0.54	-0.000648	±2.5	PASS
Band V	4132	VN	TN	1.52	0.001843	±2.5	PASS
Band V	4132	VH	TN	11.84	0.014333	±2.5	PASS
Band V	4182	VL	TN	-5.89	-0.007044	±2.5	PASS
Band V	4182	VN	TN	14.47	0.017303	±2.5	PASS
Band V	4182	VH	TN	8.89	0.010628	±2.5	PASS
Band V	4233	VL	TN	-1.54	-0.001816	±2.5	PASS
Band V	4233	VN	TN	3.51	0.004152	±2.5	PASS
Band V	4233	VH	TN	-1.04	-0.001224	±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	4.53	0.002445	±2.5	PASS
Band II	9262	VN	-20	-6.31	-0.003409	±2.5	PASS
Band II	9262	VN	-10	-1.86	-0.001002	±2.5	PASS
Band II	9262	VN	0	0.36	0.000196	±2.5	PASS
Band II	9262	VN	10	-12.52	-0.006757	±2.5	PASS
Band II	9262	VN	20	-4.31	-0.002324	±2.5	PASS
Band II	9262	VN	30	-12.26	-0.006619	±2.5	PASS
Band II	9262	VN	40	8.35	0.004510	±2.5	PASS
Band II	9262	VN	50	5.08	0.002742	±2.5	PASS
Band II	9400	VN	-30	-9.05	-0.004815	±2.5	PASS
Band II	9400	VN	-20	14.47	0.007699	±2.5	PASS
Band II	9400	VN	-10	8.04	0.004277	±2.5	PASS
Band II	9400	VN	0	-4.80	-0.002555	±2.5	PASS
Band II	9400	VN	10	-8.08	-0.004297	±2.5	PASS
Band II	9400	VN	20	5.27	0.002802	±2.5	PASS
Band II	9400	VN	30	-7.43	-0.003953	±2.5	PASS
Band II	9400	VN	40	-12.95	-0.006890	±2.5	PASS
Band II	9400	VN	50	-13.99	-0.007442	±2.5	PASS
Band II	9538	VN	-30	-1.56	-0.000819	±2.5	PASS
Band II	9538	VN	-20	-5.87	-0.003079	±2.5	PASS
Band II	9538	VN	-10	-8.67	-0.004547	±2.5	PASS
Band II	9538	VN	0	9.60	0.005033	±2.5	PASS
Band II	9538	VN	10	-3.11	-0.001632	±2.5	PASS
Band II	9538	VN	20	-2.58	-0.001351	±2.5	PASS
Band II	9538	VN	30	1.44	0.000757	±2.5	PASS
Band II	9538	VN	40	-9.41	-0.004933	±2.5	PASS
Band II	9538	VN	50	3.97	0.002079	±2.5	PASS
Band V	4132	VN	-30	-12.38	-0.014975	±2.5	PASS
Band V	4132	VN	-20	-9.11	-0.011023	±2.5	PASS
Band V	4132	VN	-10	3.76	0.004545	±2.5	PASS
Band V	4132	VN	0	-12.14	-0.014691	±2.5	PASS
Band V	4132	VN	10	-13.18	-0.015953	±2.5	PASS



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Band V	4132	VN	20	11.80	0.014278	±2.5	PASS
Band V	4132	VN	30	8.01	0.009692	±2.5	PASS
Band V	4132	VN	40	7.19	0.008695	±2.5	PASS
Band V	4132	VN	50	13.64	0.016505	±2.5	PASS
Band V	4182	VN	-30	13.06	0.015611	±2.5	PASS
Band V	4182	VN	-20	5.65	0.006751	±2.5	PASS
Band V	4182	VN	-10	-9.70	-0.011602	±2.5	PASS
Band V	4182	VN	0	-7.93	-0.009478	±2.5	PASS
Band V	4182	VN	10	-8.25	-0.009858	±2.5	PASS
Band V	4182	VN	20	-6.93	-0.008283	±2.5	PASS
Band V	4182	VN	30	12.61	0.015081	±2.5	PASS
Band V	4182	VN	40	13.45	0.016076	±2.5	PASS
Band V	4182	VN	50	14.67	0.017536	±2.5	PASS
Band V	4233	VN	-30	12.00	0.014174	±2.5	PASS
Band V	4233	VN	-20	7.54	0.008907	±2.5	PASS
Band V	4233	VN	-10	6.22	0.007348	±2.5	PASS
Band V	4233	VN	0	7.57	0.008947	±2.5	PASS
Band V	4233	VN	10	-11.59	-0.013687	±2.5	PASS
Band V	4233	VN	20	6.20	0.007322	±2.5	PASS
Band V	4233	VN	30	-6.96	-0.008222	±2.5	PASS
Band V	4233	VN	40	10.45	0.012343	±2.5	PASS
Band V	4233	VN	50	-10.43	-0.012320	±2.5	PASS

The End



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