

# 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	23.88	19.88	33.00	PASS
Band II	9400	23.84	19.84	33.00	PASS
Band II	9538	24.09	20.09	33.00	PASS

BAND	Channel	Conducted Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	24.02	17.87	38.45	PASS
Band V	4182	24.14	17.99	38.45	PASS
Band V	4233	24.05	17.90	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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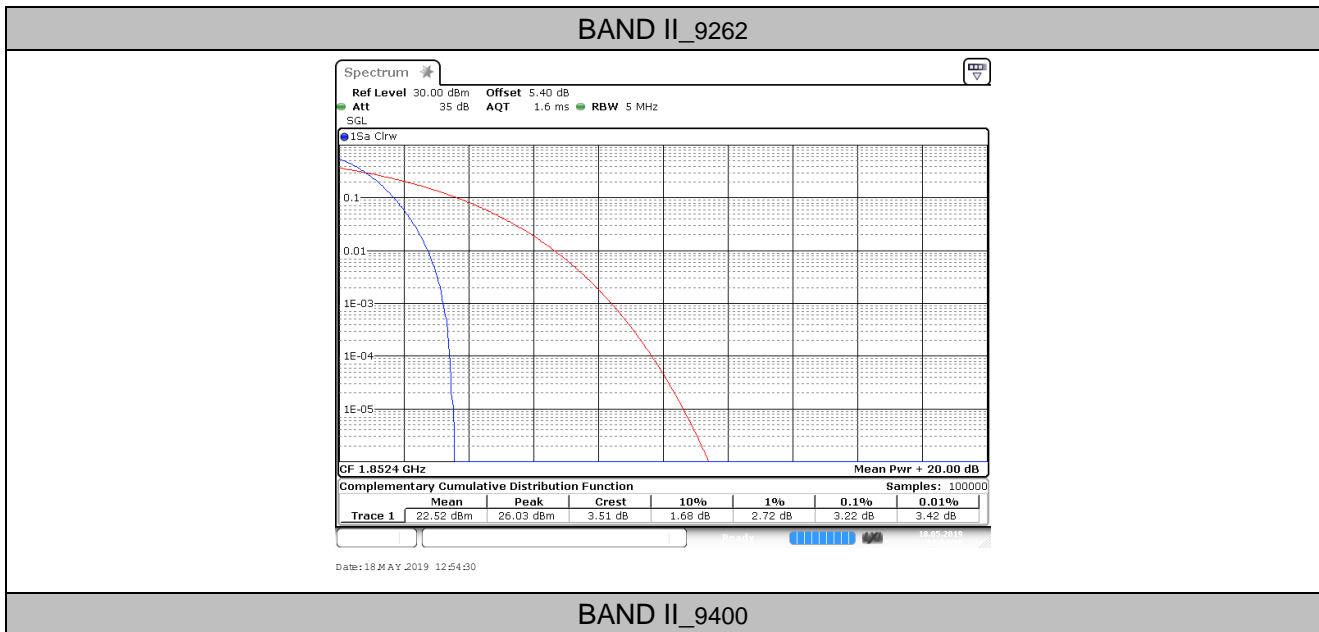
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

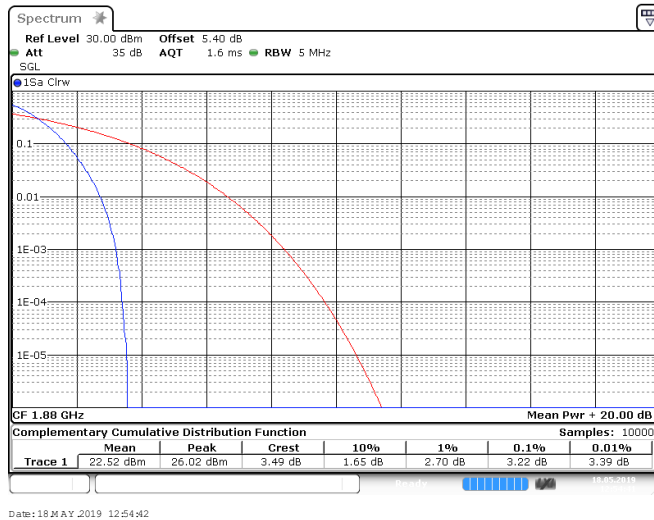
BAND	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.22	13	PASS
Band II	9400	3.22	13	PASS
Band II	9538	3.07	13	PASS
Band V	4132	2.99	13	PASS
Band V	4182	3.57	13	PASS
Band V	4233	3.28	13	PASS

### 2.2. Test Plots



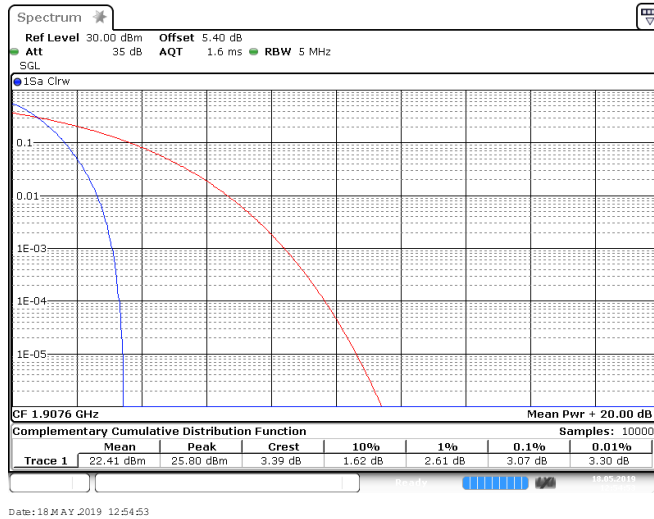
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**BAND II\_9538**

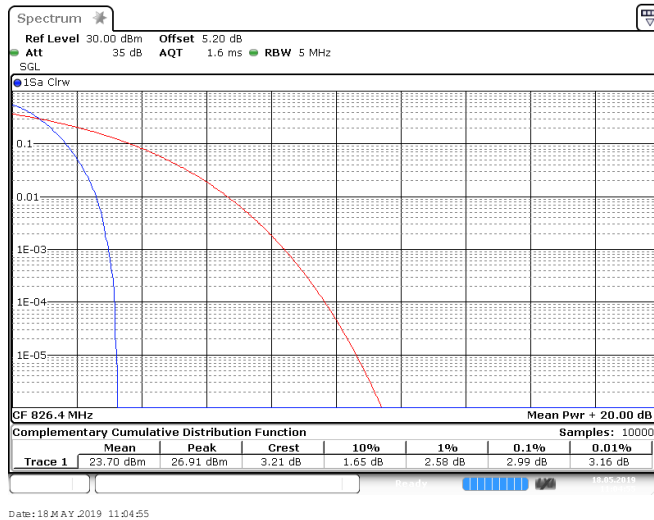


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**BAND V\_4132**

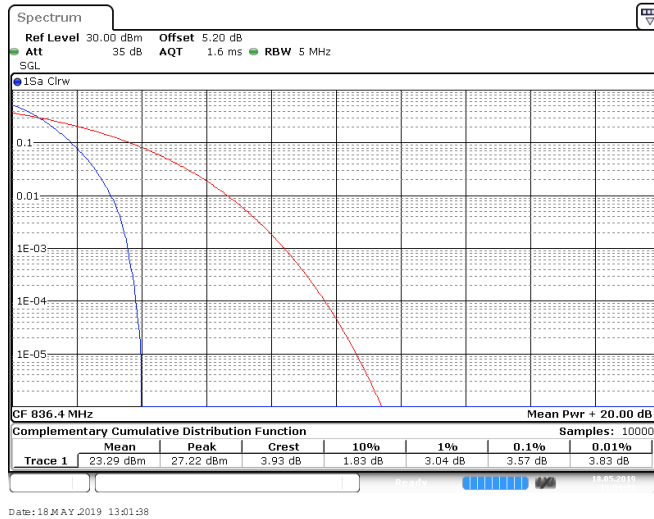


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**BAND V\_4182**



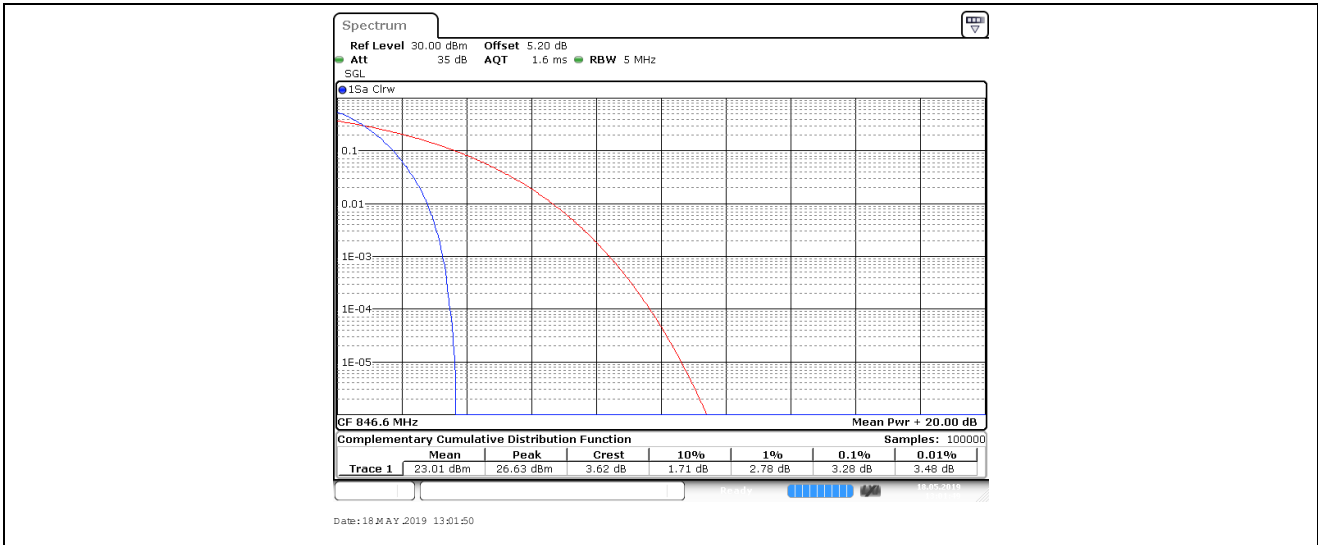
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**BAND V\_4233**



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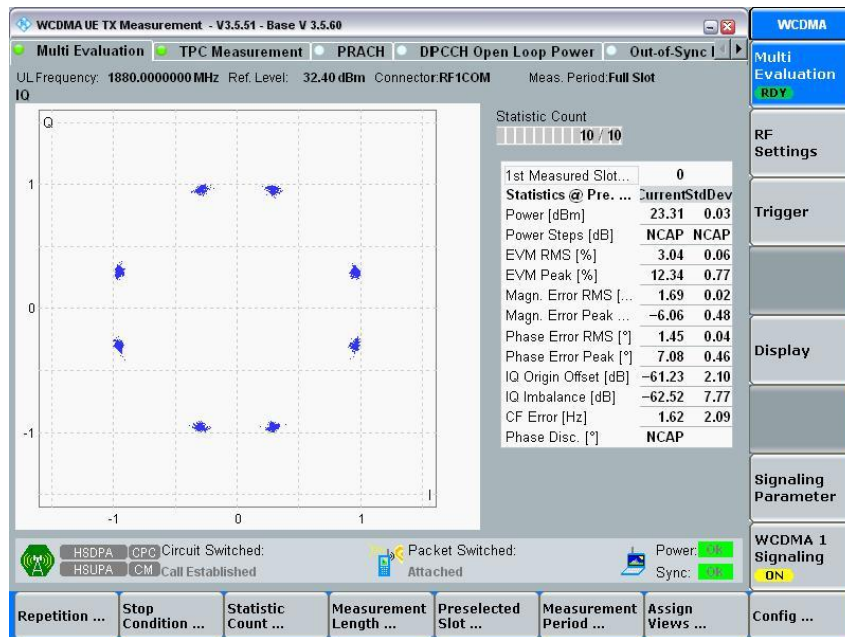
### 3. Modulation Characteristics

#### 3.1. Test BAND = LTE Band 2

#### 3.2. Test BAND = WCDMA BAND II

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

##### 3.2.1.1. Test Channel = MCH

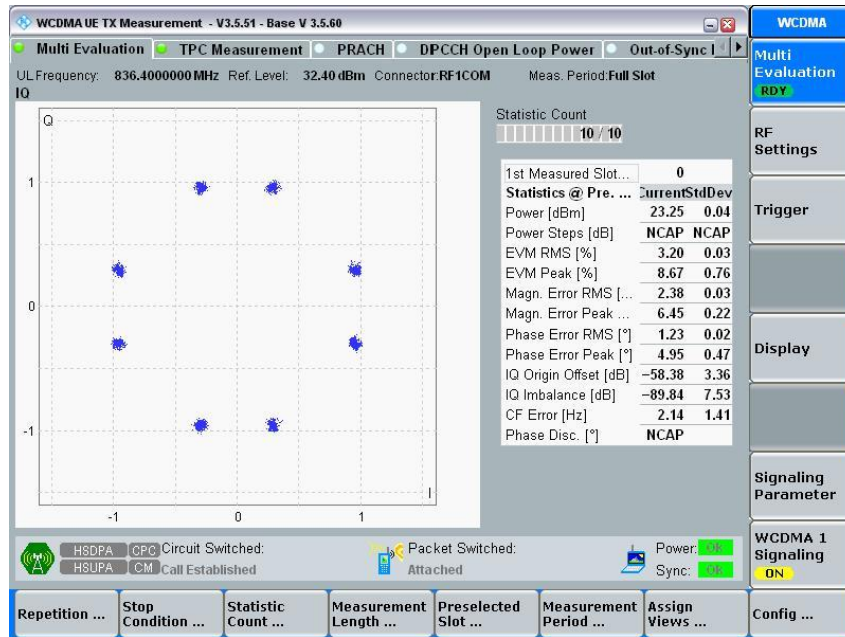


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### 3.3. Test BAND = WCDMA BAND V

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

##### 3.3.1.1. Test Channel = MCH



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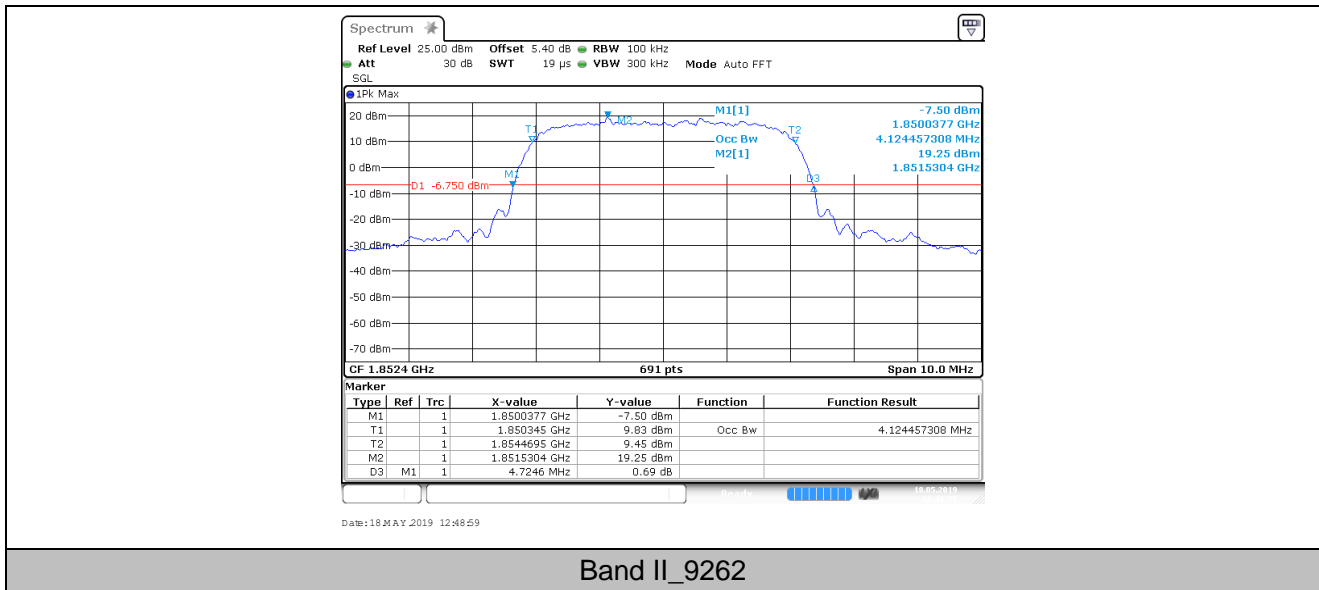
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

BAND	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4124.5	4725	---	PASS
Band II	9400	4138.9	4754	---	PASS
Band II	9538	4124.5	4725	---	PASS
Band V	4132	4124.5	4739	---	PASS
Band V	4182	4110.0	4710	---	PASS
Band V	4233	4124.5	4725	---	PASS

### 4.2. Test Plots

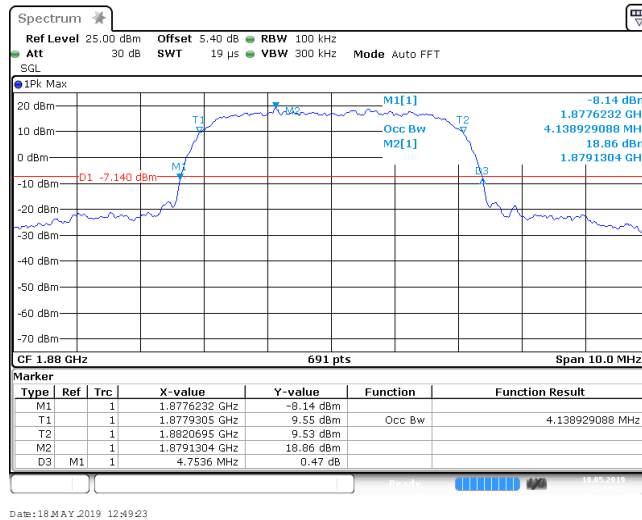


Band II\_9262

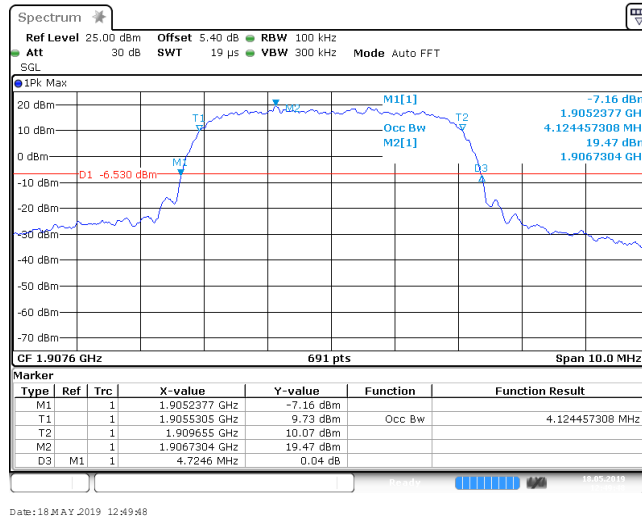


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**Band II\_9400**

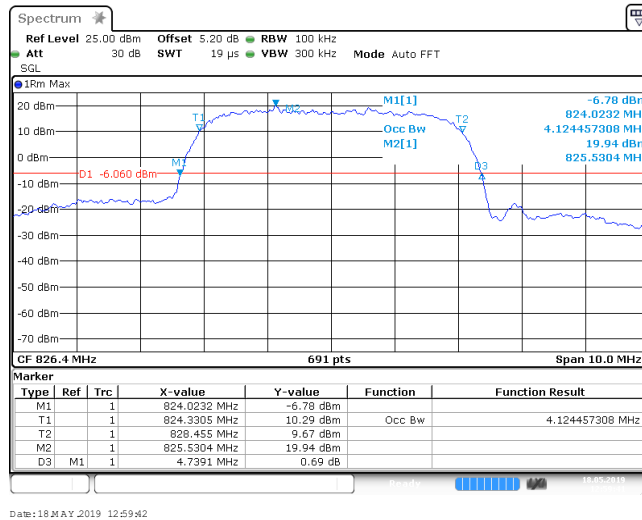


**Band II\_9538**



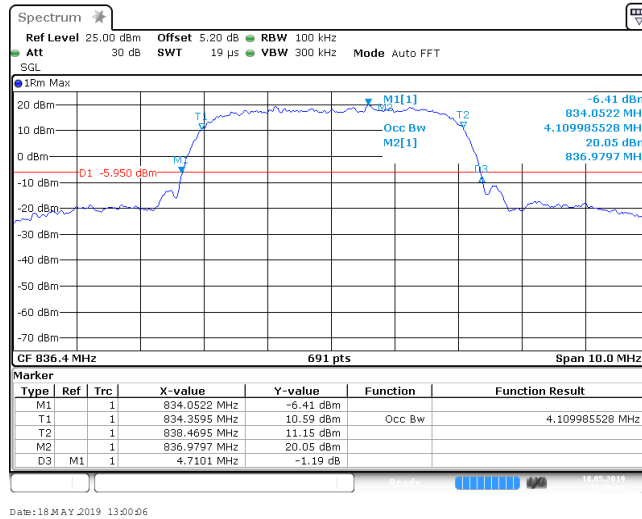
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**Band V\_4132**



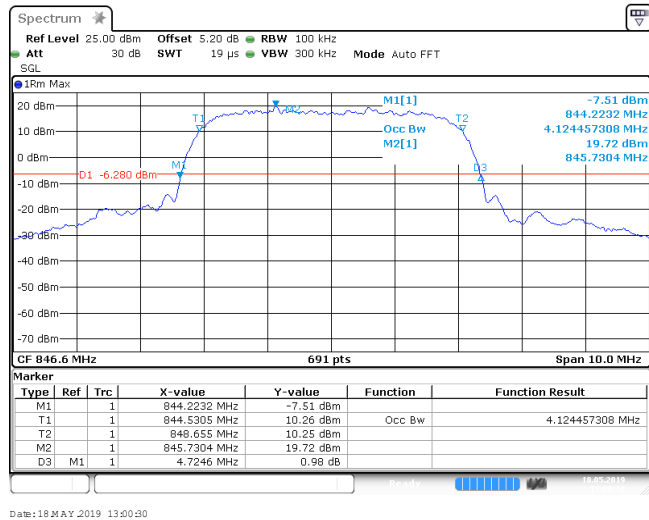
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**Band V\_4182**



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Band V\_4233

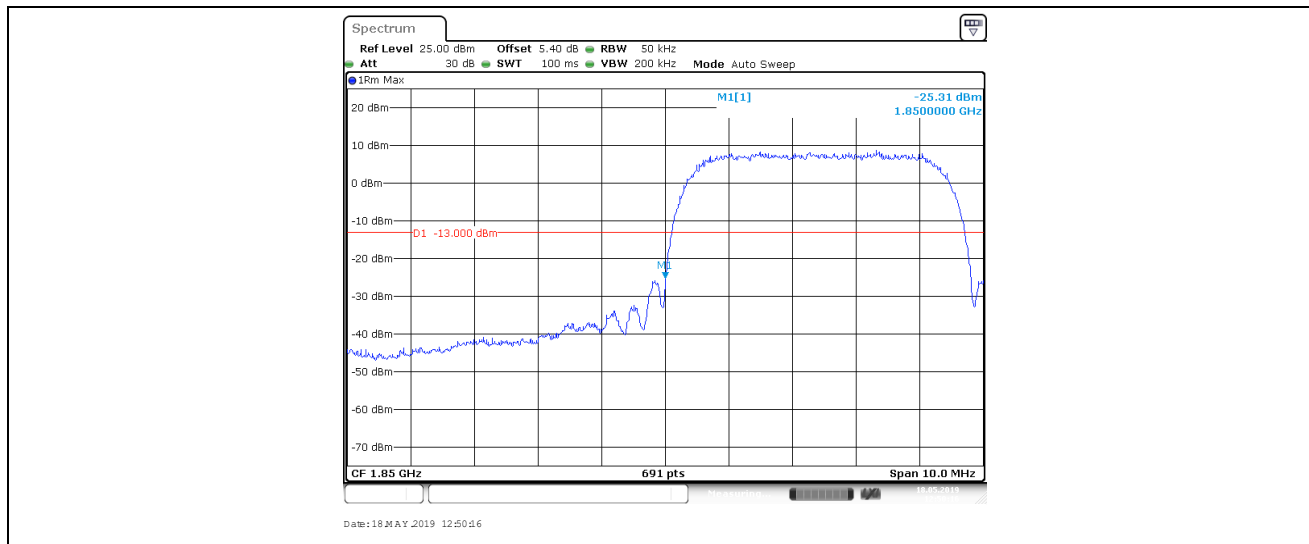


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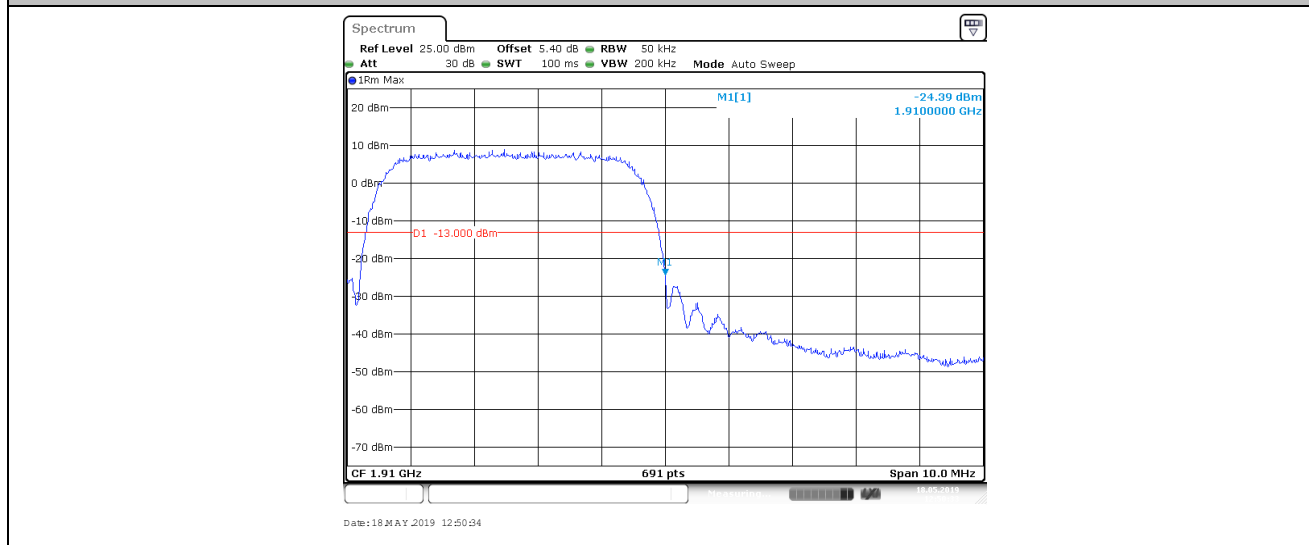
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## 5. Band Edge Compliance

### 5.1. Test Plots



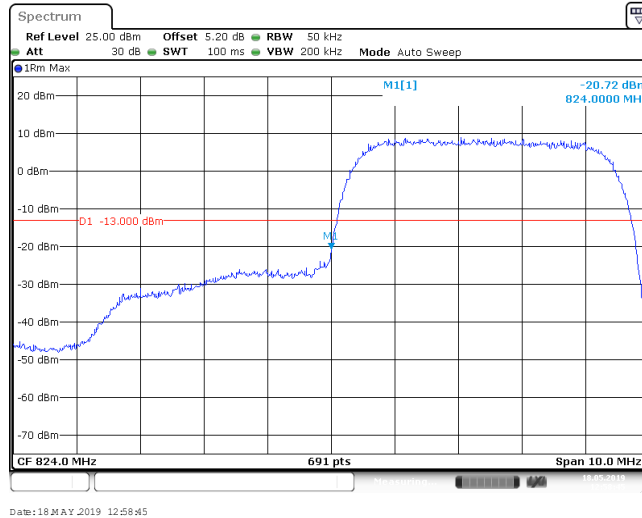
Band II\_9262



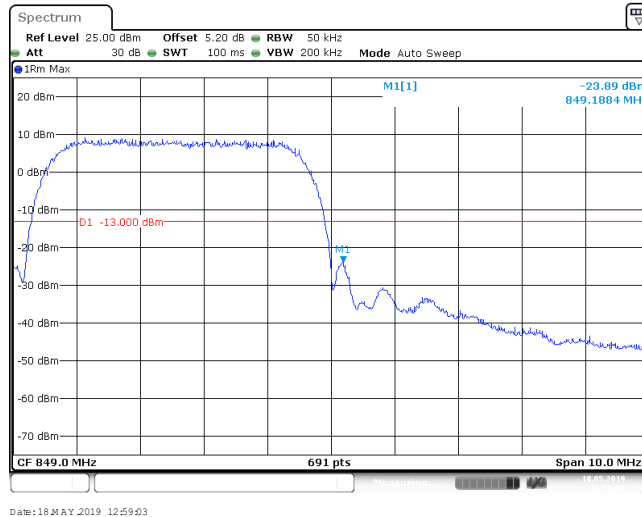
Band II\_9538



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**Band V\_4132**



**Band V\_4233**



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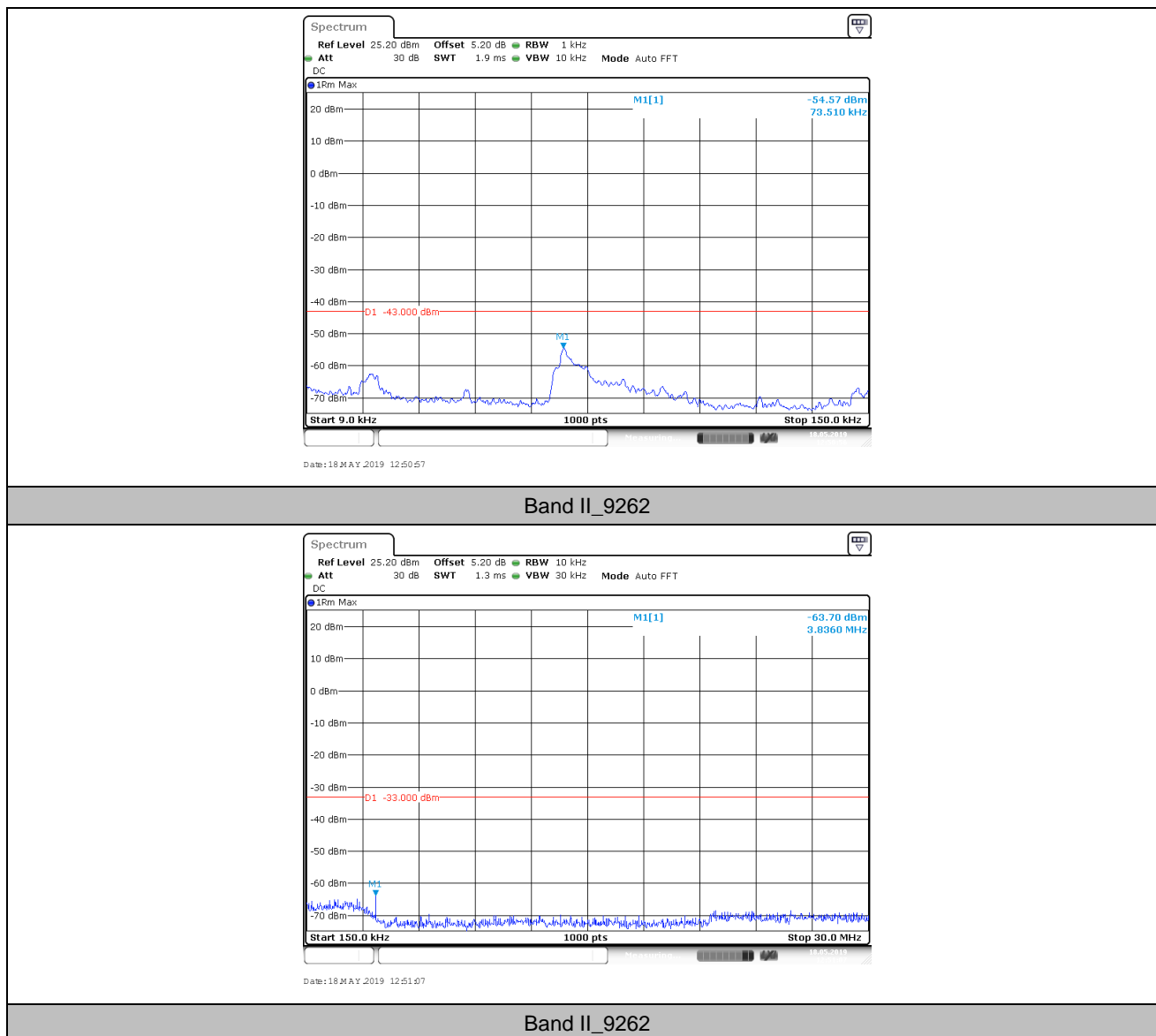


## 6. Spurious Emission at Antenna Terminal

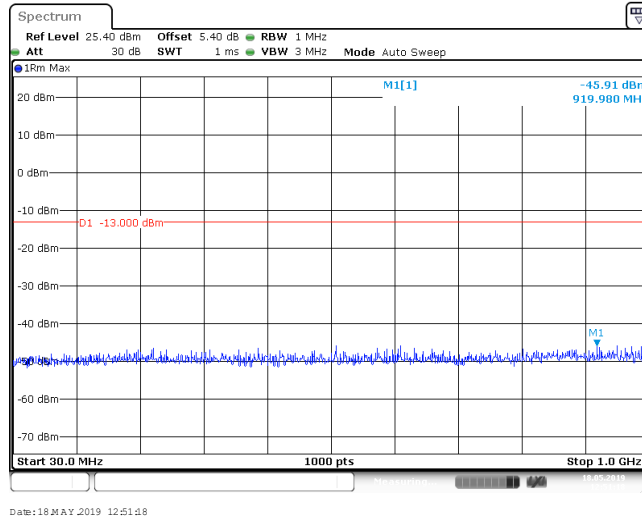
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points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

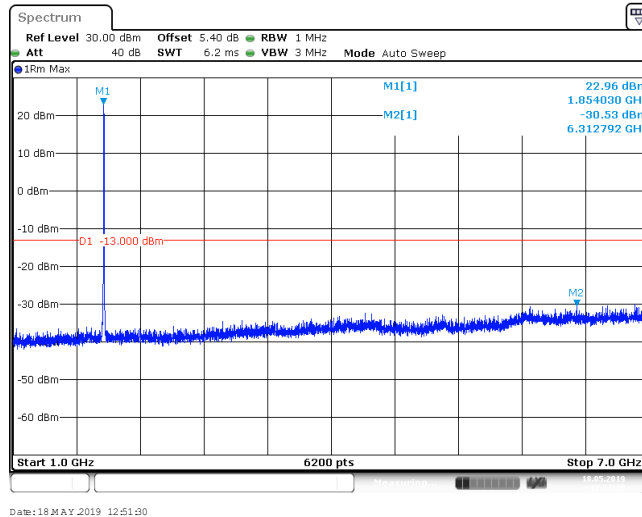
### 6.1. Test Plots



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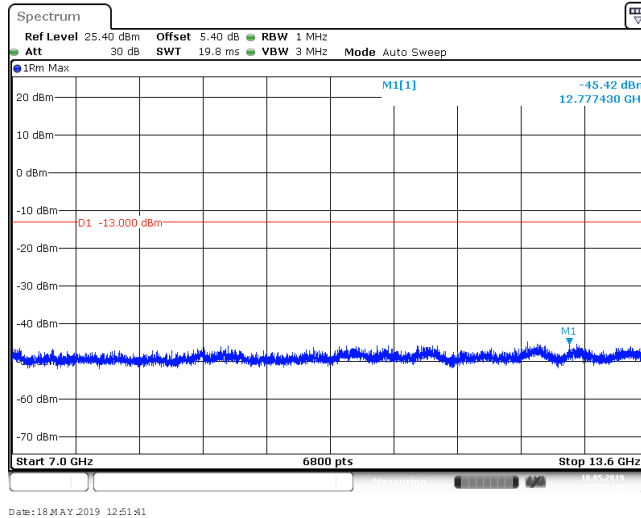


Band II\_9262

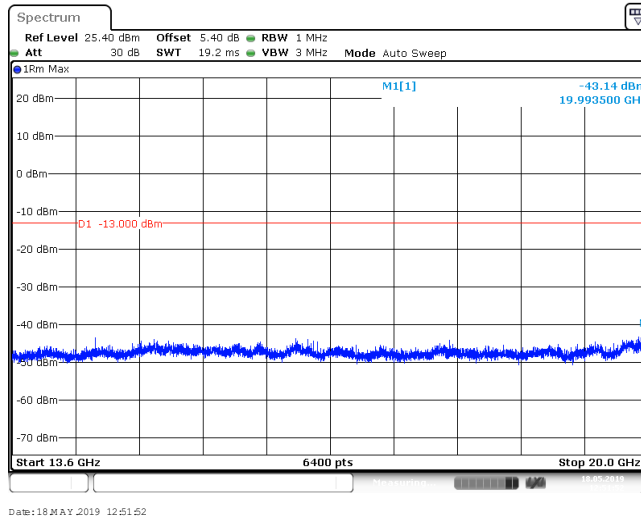


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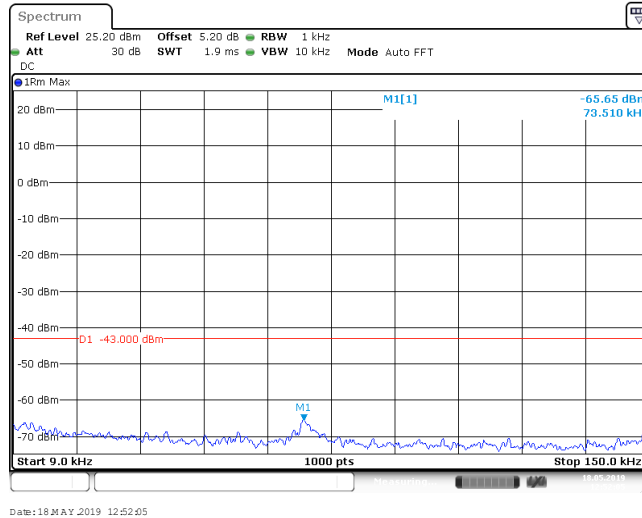
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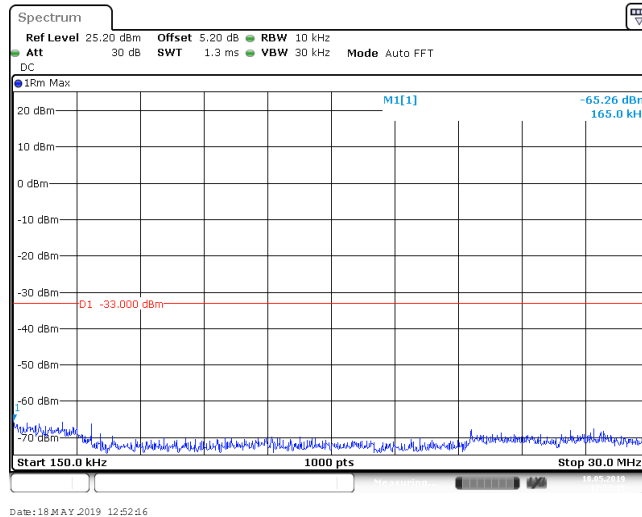
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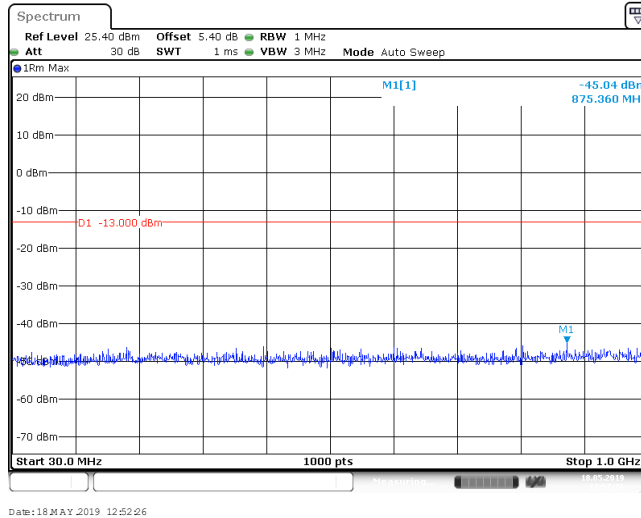
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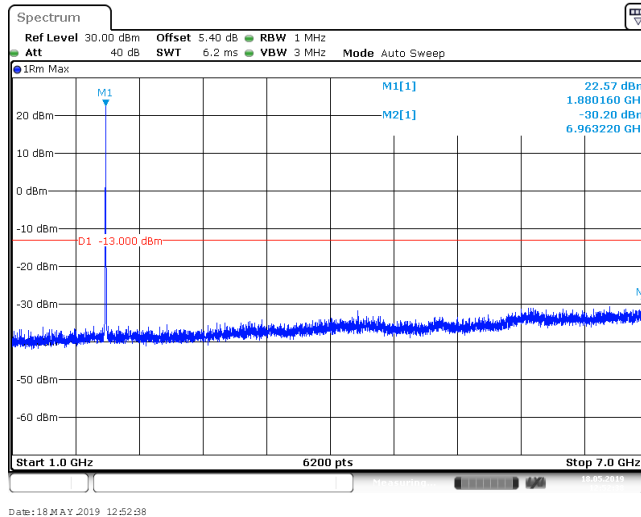
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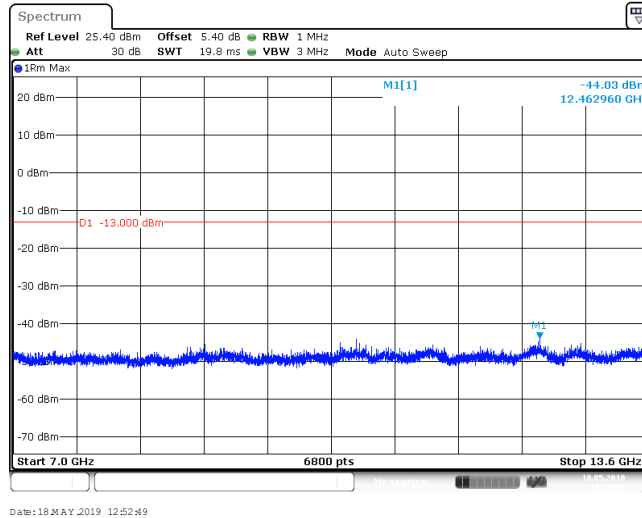


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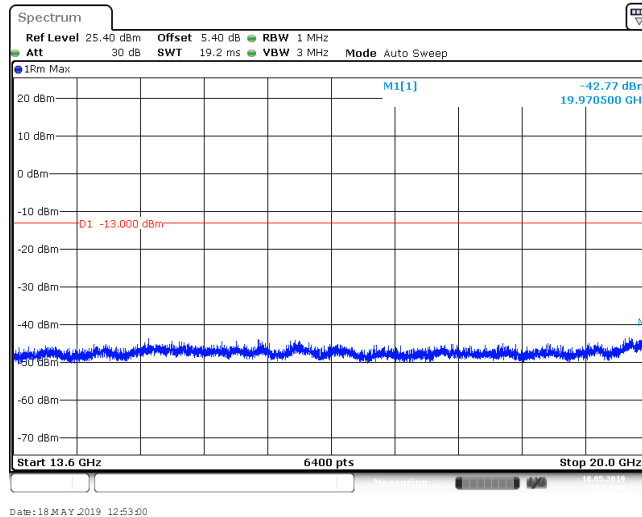


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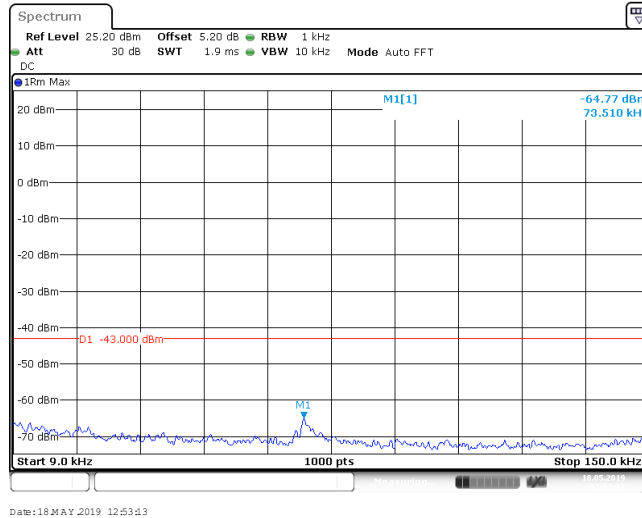
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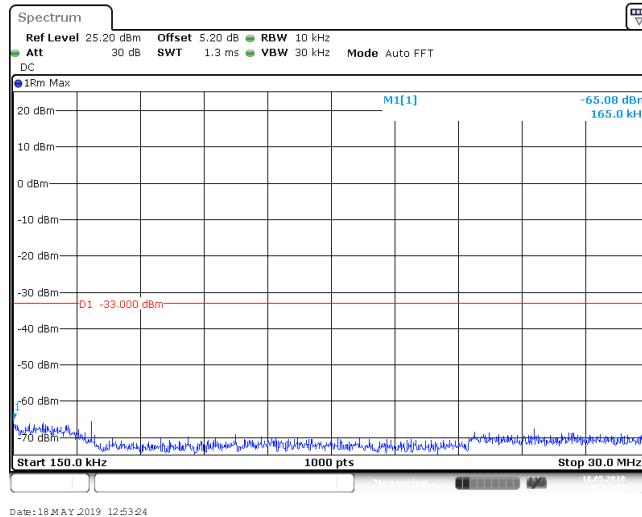
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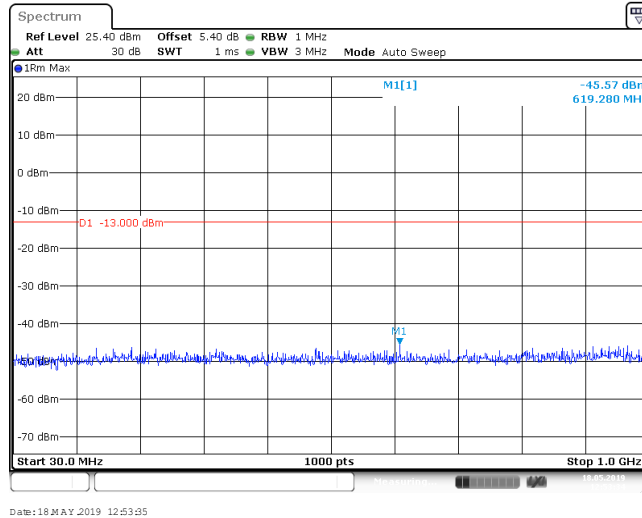
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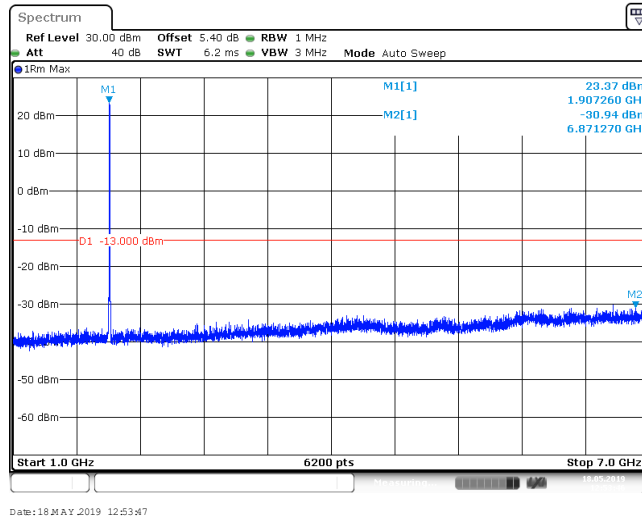
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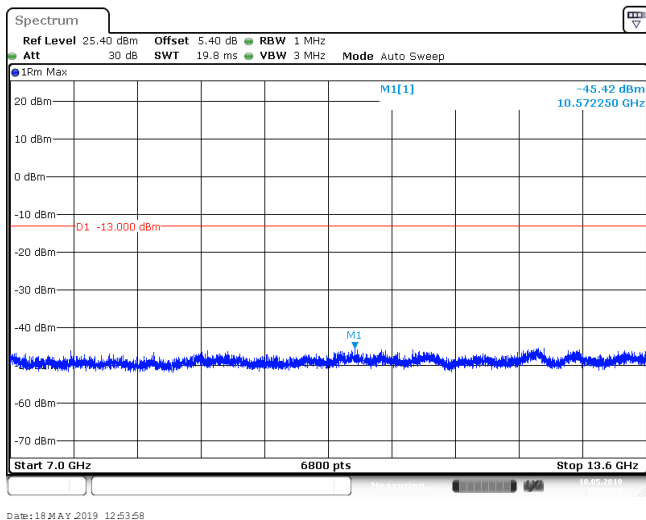


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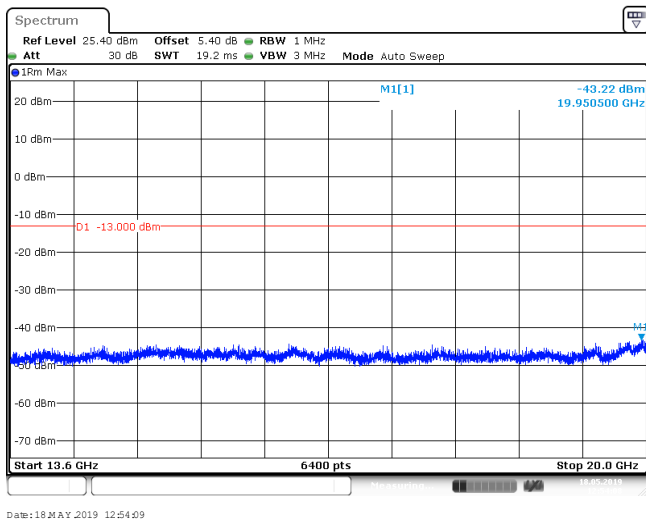


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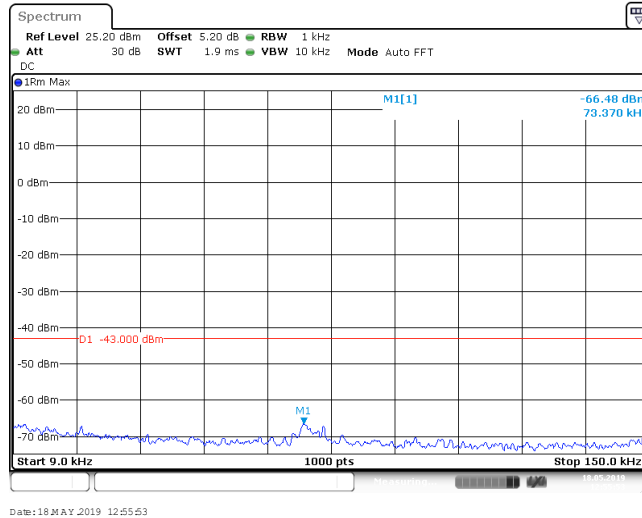


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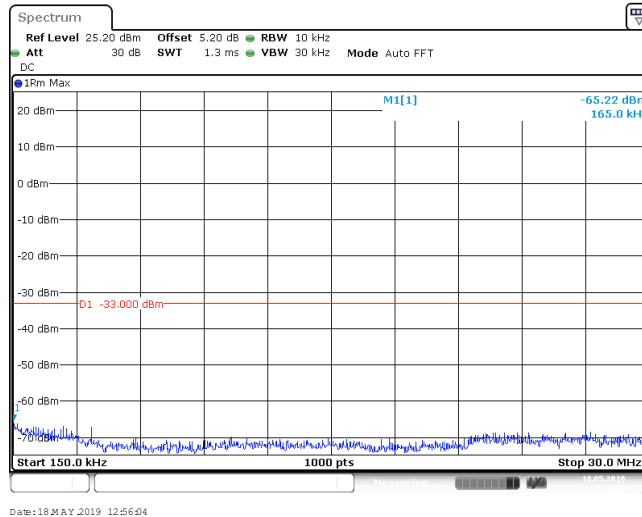


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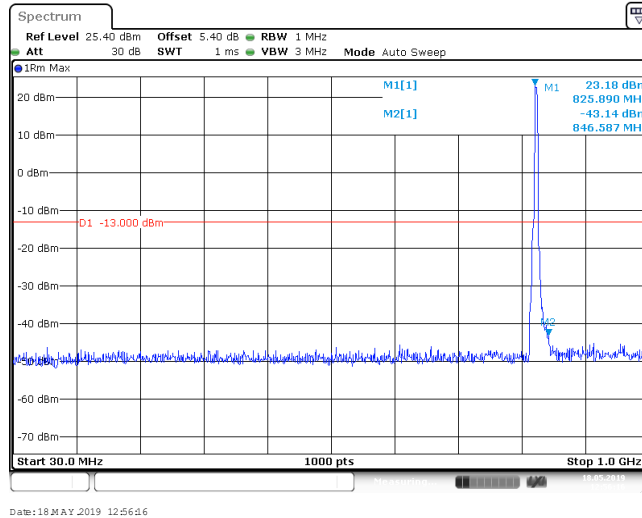


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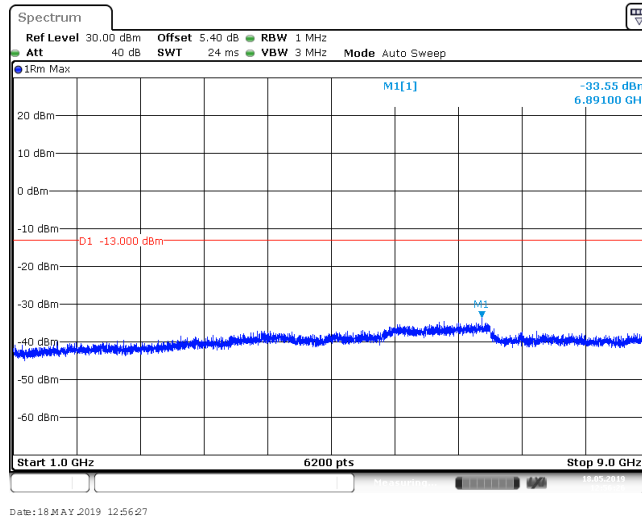


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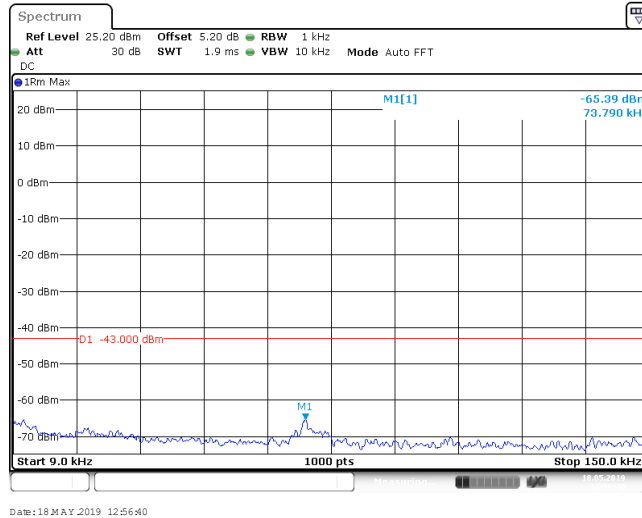


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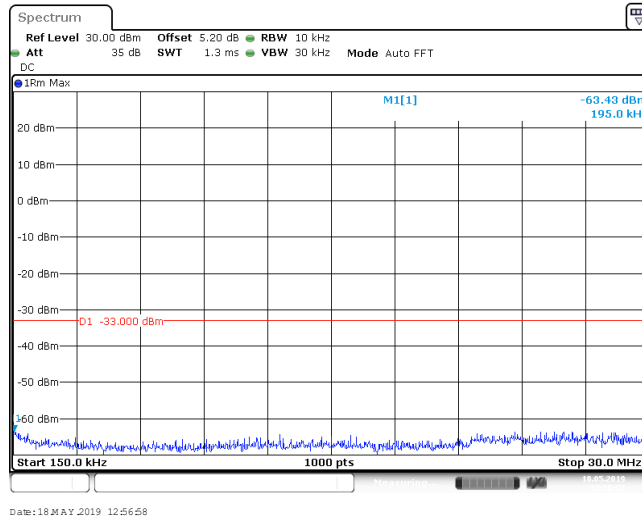


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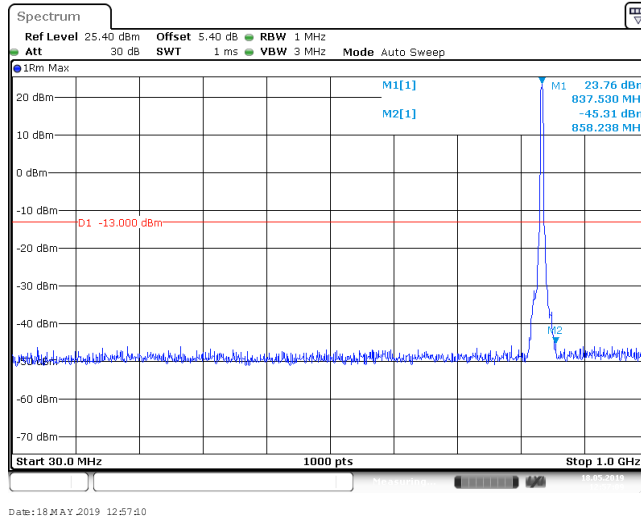


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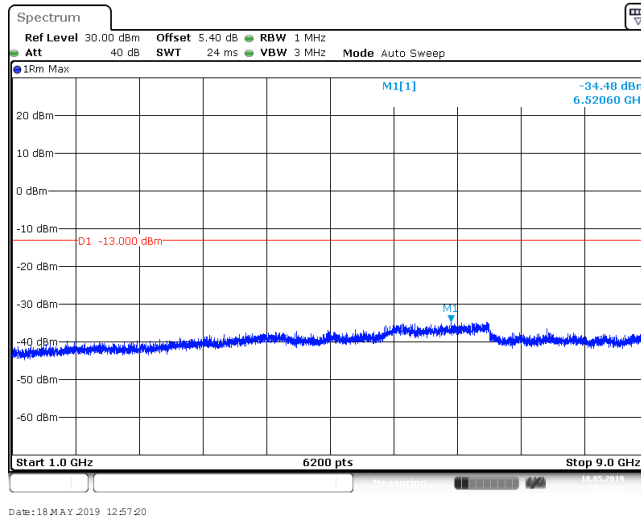


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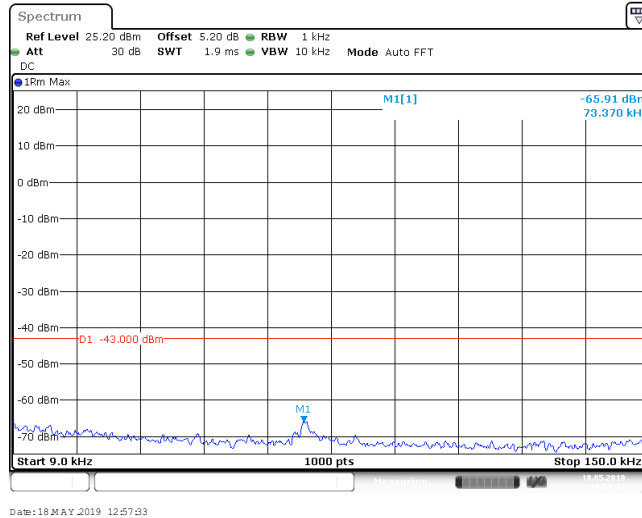


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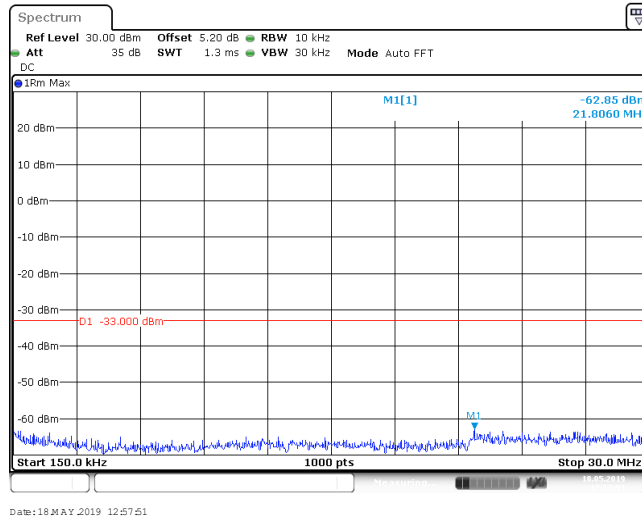


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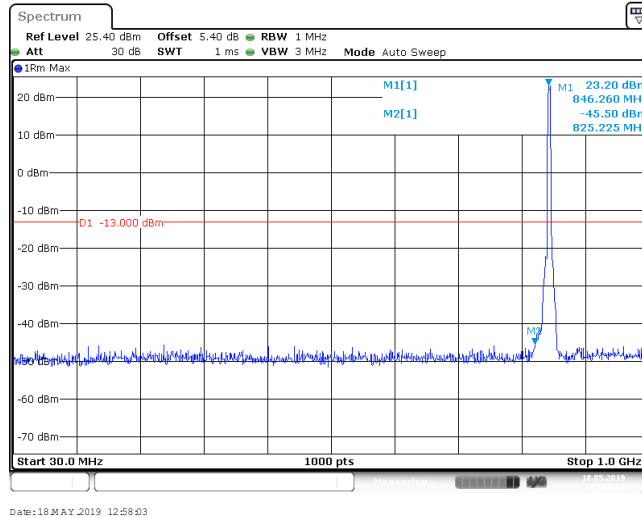
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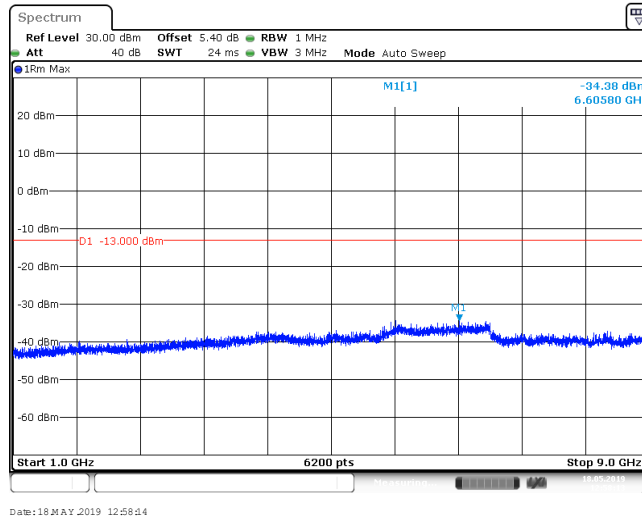
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## 7. Field Strength of Spurious Radiation

### 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
63.150000	-82.26	-13.00	69.26	Vertical
104.250000	-82.64	-13.00	69.64	Vertical
406.200000	-69.95	-13.00	56.95	Vertical
3702.975000	-66.61	-13.00	53.61	Vertical
5559.862500	-59.63	-13.00	46.63	Vertical
7406.512500	-63.56	-13.00	50.56	Vertical
62.350000	-77.45	-13.00	64.45	Horizontal
156.000000	-82.86	-13.00	69.86	Horizontal
406.200000	-65.31	-13.00	52.31	Horizontal
3706.387500	-65.49	-13.00	52.49	Horizontal
5554.500000	-58.24	-13.00	45.24	Horizontal
7405.050000	-63.79	-13.00	50.79	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.400000	-81.08	-13.00	68.08	Vertical
104.250000	-81.70	-13.00	68.70	Vertical
406.200000	-71.17	-13.00	58.17	Vertical
3758.062500	-67.59	-13.00	54.59	Vertical
5642.737500	-59.93	-13.00	46.93	Vertical
8633.062500	-63.63	-13.00	50.63	Vertical
62.100000	-77.53	-13.00	64.53	Horizontal
234.000000	-80.88	-13.00	67.88	Horizontal



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406.200000	-70.12	-13.00	57.12	Horizontal
3761.475000	-67.18	-13.00	54.18	Horizontal
5642.737500	-58.73	-13.00	45.73	Horizontal
9258.525000	-62.70	-13.00	49.70	Horizontal

**7.1.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.250000	-81.32	-13.00	68.32	Vertical
104.250000	-83.55	-13.00	70.55	Vertical
406.200000	-68.29	-13.00	55.29	Vertical
3816.562500	-64.73	-13.00	51.73	Vertical
5719.762500	-59.81	-13.00	46.81	Vertical
7960.800000	-63.69	-13.00	50.69	Vertical
62.850000	-77.49	-13.00	64.49	Horizontal
156.000000	-83.47	-13.00	70.47	Horizontal
406.200000	-64.70	-13.00	51.70	Horizontal
3813.637500	-62.10	-13.00	49.10	Horizontal
5719.762500	-59.69	-13.00	46.69	Horizontal
9239.025000	-62.82	-13.00	49.82	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)	Polarization
65.850000	-82.13	-13.00	69.13	Vertical
104.250000	-82.75	-13.00	69.75	Vertical
406.200000	-70.13	-13.00	57.13	Vertical
1654.500000	-64.02	-13.00	51.02	Vertical
3308.100000	-67.02	-13.00	54.02	Vertical
4127.587500	-53.52	-13.00	40.52	Vertical



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62.450000	-77.39	-13.00	64.39	Horizontal
156.000000	-83.42	-13.00	70.42	Horizontal
406.200000	-65.34	-13.00	52.34	Horizontal
1654.500000	-63.00	-13.00	50.00	Horizontal
3308.100000	-66.33	-13.00	53.33	Horizontal
4127.587500	-58.88	-13.00	45.88	Horizontal

**7.2.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.150000	-81.49	-13.00	68.49	Vertical
406.200000	-69.22	-13.00	56.22	Vertical
1674.000000	-63.90	-13.00	50.90	Vertical
2651.000000	-57.75	-13.00	44.75	Vertical
3342.225000	-67.42	-13.00	54.42	Vertical
4186.087500	-51.36	-13.00	38.36	Vertical
62.400000	-77.54	-13.00	64.54	Horizontal
406.200000	-65.53	-13.00	52.53	Horizontal
1674.500000	-63.48	-13.00	50.48	Horizontal
2679.500000	-57.86	-13.00	44.86	Horizontal
3342.225000	-66.43	-13.00	53.43	Horizontal
4186.087500	-60.47	-13.00	47.47	Horizontal

**7.2.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.950000	-81.43	-13.00	68.43	Vertical
406.150000	-70.56	-13.00	57.56	Vertical
1695.000000	-63.78	-13.00	50.78	Vertical
2653.000000	-57.72	-13.00	44.72	Vertical
3381.712500	-66.76	-13.00	53.76	Vertical
4228.012500	-57.13	-13.00	44.13	Vertical
62.550000	-77.33	-13.00	64.33	Horizontal



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406.200000	-65.71	-13.00	52.71	Horizontal
1691.000000	-62.65	-13.00	49.65	Horizontal
2650.500000	-58.25	-13.00	45.25	Horizontal
3381.712500	-65.78	-13.00	52.78	Horizontal
4227.525000	-64.28	-13.00	51.28	Horizontal

**Remark:**

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.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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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	2.93	0.001583	2.5	PASS
Band II	9262	VN	TN	2.45	0.001321	2.5	PASS
Band II	9262	VH	TN	1.89	0.001019	2.5	PASS
Band II	9400	VL	TN	-0.92	-0.000487	2.5	PASS
Band II	9400	VN	TN	-0.71	-0.000377	2.5	PASS
Band II	9400	VH	TN	0.69	0.000369	2.5	PASS
Band II	9538	VL	TN	-2.32	-0.001215	2.5	PASS
Band II	9538	VN	TN	-3.70	-0.001938	2.5	PASS
Band II	9538	VH	TN	-3.78	-0.001980	2.5	PASS
Band V	4132	VL	TN	0.72	0.000866	2.5	PASS
Band V	4132	VN	TN	1.04	0.001255	2.5	PASS
Band V	4132	VH	TN	1.09	0.001324	2.5	PASS
Band V	4182	VL	TN	-0.12	-0.000145	2.5	PASS
Band V	4182	VN	TN	0.24	0.000282	2.5	PASS
Band V	4182	VH	TN	-0.96	-0.001146	2.5	PASS
Band V	4233	VL	TN	-1.52	-0.001791	2.5	PASS
Band V	4233	VN	TN	-1.15	-0.001360	2.5	PASS
Band V	4233	VH	TN	-1.97	-0.002332	2.5	PASS

### 8.2. Frequency Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	3.54	0.001911	2.5	PASS
Band II	9262	VN	-20	2.80	0.001510	2.5	PASS
Band II	9262	VN	-10	3.43	0.001850	2.5	PASS
Band II	9262	VN	0	2.62	0.001417	2.5	PASS
Band II	9262	VN	10	2.22	0.001197	2.5	PASS
Band II	9262	VN	20	3.08	0.001664	2.5	PASS
Band II	9262	VN	30	3.95	0.002131	2.5	PASS
Band II	9262	VN	40	4.39	0.002371	2.5	PASS



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Band II	9262	VN	50	1.61	0.000869	2.5	PASS
Band II	9400	VN	-30	-0.16	-0.000084	2.5	PASS
Band II	9400	VN	-20	-0.58	-0.000308	2.5	PASS
Band II	9400	VN	-10	0.39	0.000205	2.5	PASS
Band II	9400	VN	0	-0.13	-0.000068	2.5	PASS
Band II	9400	VN	10	-1.07	-0.000567	2.5	PASS
Band II	9400	VN	20	-1.37	-0.000727	2.5	PASS
Band II	9400	VN	30	-0.83	-0.000441	2.5	PASS
Band II	9400	VN	40	0.06	0.000030	2.5	PASS
Band II	9400	VN	50	-0.23	-0.000122	2.5	PASS
Band II	9538	VN	-30	-3.16	-0.001657	2.5	PASS
Band II	9538	VN	-20	-4.76	-0.002493	2.5	PASS
Band II	9538	VN	-10	-3.19	-0.001672	2.5	PASS
Band II	9538	VN	0	-3.77	-0.001976	2.5	PASS
Band II	9538	VN	10	-4.37	-0.002291	2.5	PASS
Band II	9538	VN	20	-3.18	-0.001669	2.5	PASS
Band II	9538	VN	30	-4.08	-0.002137	2.5	PASS
Band II	9538	VN	40	-3.45	-0.001811	2.5	PASS
Band II	9538	VN	50	-3.14	-0.001646	2.5	PASS
Band V	4132	VN	-30	1.72	0.002077	2.5	PASS
Band V	4132	VN	-20	1.79	0.002164	2.5	PASS
Band V	4132	VN	-10	1.18	0.001428	2.5	PASS
Band V	4132	VN	0	1.86	0.002250	2.5	PASS
Band V	4132	VN	10	0.94	0.001134	2.5	PASS
Band V	4132	VN	20	1.03	0.001246	2.5	PASS
Band V	4132	VN	30	-0.06	-0.000069	2.5	PASS
Band V	4132	VN	40	0.67	0.000814	2.5	PASS
Band V	4132	VN	50	1.39	0.001679	2.5	PASS
Band V	4182	VN	-30	-1.01	-0.001206	2.5	PASS
Band V	4182	VN	-20	-0.41	-0.000496	2.5	PASS
Band V	4182	VN	-10	-0.58	-0.000693	2.5	PASS
Band V	4182	VN	0	-0.13	-0.000154	2.5	PASS
Band V	4182	VN	10	-0.98	-0.001172	2.5	PASS
Band V	4182	VN	20	-0.01	-0.000017	2.5	PASS
Band V	4182	VN	30	-0.92	-0.001095	2.5	PASS
Band V	4182	VN	40	-0.10	-0.000120	2.5	PASS
Band V	4182	VN	50	0.09	0.000111	2.5	PASS
Band V	4233	VN	-30	-1.49	-0.001766	2.5	PASS



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Band V	4233	VN	-20	-1.38	-0.001631	2.5	PASS
Band V	4233	VN	-10	-1.52	-0.001800	2.5	PASS
Band V	4233	VN	0	-1.38	-0.001631	2.5	PASS
Band V	4233	VN	10	-1.12	-0.001318	2.5	PASS
Band V	4233	VN	20	-1.00	-0.001183	2.5	PASS
Band V	4233	VN	30	-1.60	-0.001884	2.5	PASS
Band V	4233	VN	40	-1.13	-0.001335	2.5	PASS
Band V	4233	VN	50	-1.87	-0.002205	2.5	PASS

The End



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