

# Appendix B.1

## WCDMA Band II



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Report No.: SUCR240500014801  
 Rev.: 01  
 Page: 2 of 31

### 1. Effective (Isotropic) Radiated Power Output Data

For report SUCR240400011301:

#### 1.1 Band II\_EIRP (NPANT001)

##### 1.1.1 Test Result

Band II								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	23.19	3.87	27.06	<=33.00	Pass
			1880	23.15	3.87	27.02	<=33.00	Pass
			1907.6	23.15	3.87	27.02	<=33.00	Pass

Note1: EIRP=Conducted Power+Antenna Gain

For report SUCR240500014801:

#### 1.2 Band II\_EIRP (NPANT001)

##### 1.2.1 Test Result

Band II								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	22.72	3.87	26.59	<=33.01	Pass
			1880	22.74	3.87	26.61	<=33.01	Pass
			1907.6	22.81	3.87	26.68	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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## 2. Frequency Stability

### 2.1 Band II

#### 2.1.1 Test Result

Band II							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.135	9.127	0.0049	/	Pass
			3.7	9.360	0.0051	/	Pass
			4.4	9.134	0.0049	/	Pass
		-30	3.7	9.219	0.0050	/	Pass
		-20	3.7	10.366	0.0056	/	Pass
		-10	3.7	9.622	0.0052	/	Pass
		0	3.7	9.967	0.0054	/	Pass
		10	3.7	10.650	0.0057	/	Pass
		30	3.7	10.612	0.0057	/	Pass
		40	3.7	10.313	0.0056	/	Pass
	50	3.7	10.235	0.0055	/	Pass	
	1880	20	3.135	11.026	0.0059	/	Pass
			3.7	11.243	0.0060	/	Pass
			4.4	10.399	0.0055	/	Pass
		-30	3.7	11.579	0.0062	/	Pass
		-20	3.7	10.369	0.0055	/	Pass
		-10	3.7	11.271	0.0060	/	Pass
		0	3.7	10.645	0.0057	/	Pass
		10	3.7	10.880	0.0058	/	Pass
		30	3.7	11.181	0.0059	/	Pass
		40	3.7	11.165	0.0059	/	Pass
	50	3.7	11.324	0.0060	/	Pass	
	1907.6	20	3.135	9.883	0.0052	/	Pass
			3.7	10.431	0.0055	/	Pass
			4.4	10.366	0.0054	/	Pass
		-30	3.7	11.227	0.0059	/	Pass
		-20	3.7	10.959	0.0057	/	Pass
		-10	3.7	10.727	0.0056	/	Pass
		0	3.7	10.112	0.0053	/	Pass
		10	3.7	10.237	0.0054	/	Pass
30		3.7	11.194	0.0059	/	Pass	
40		3.7	10.306	0.0054	/	Pass	
50	3.7	11.207	0.0059	/	Pass		



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### 3. 99% & 26dB Bandwidth

#### 3.1 Band II\_OBW

##### 3.1.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.153	/	Pass
			1880	4.142	/	Pass
			1907.6	4.151	/	Pass



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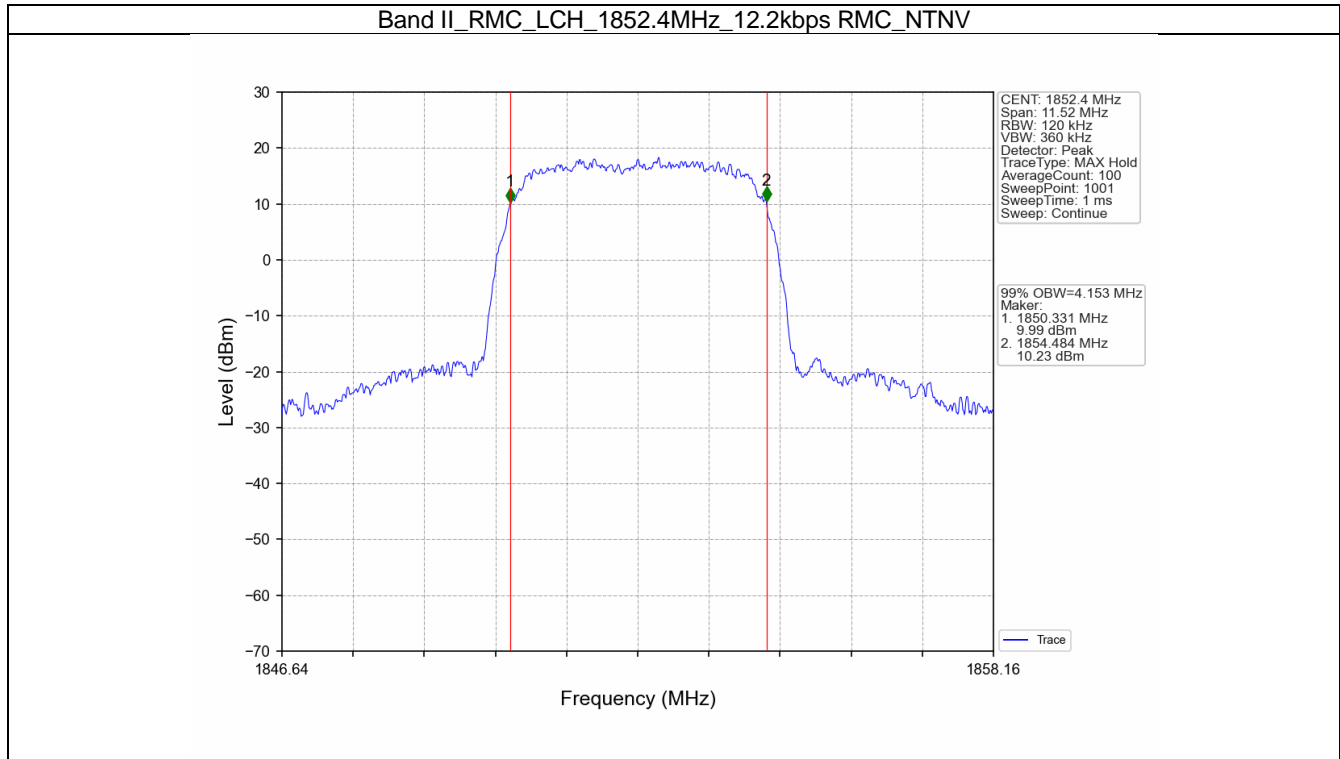
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3.1.2 Test Graph



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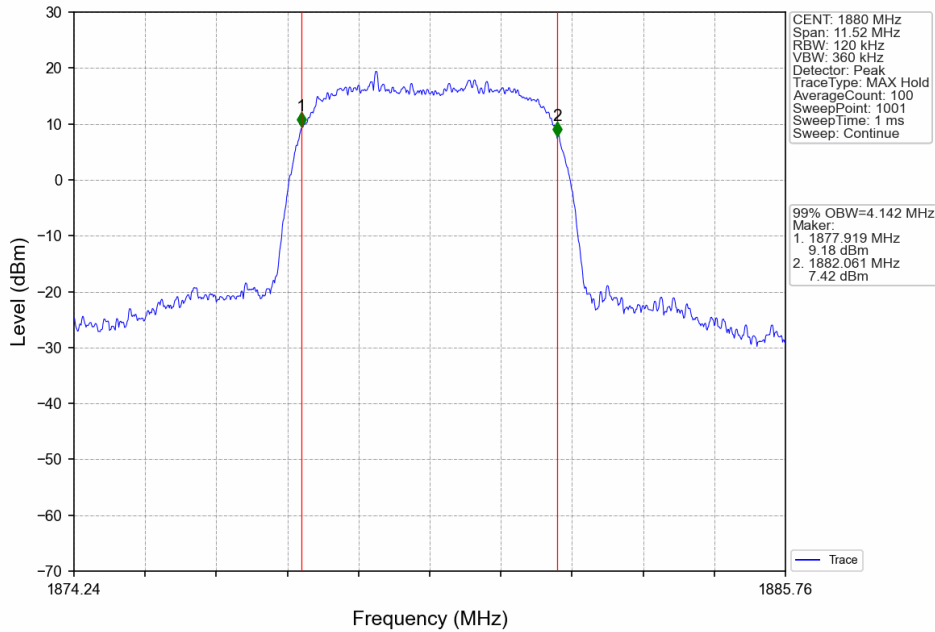
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Band II\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



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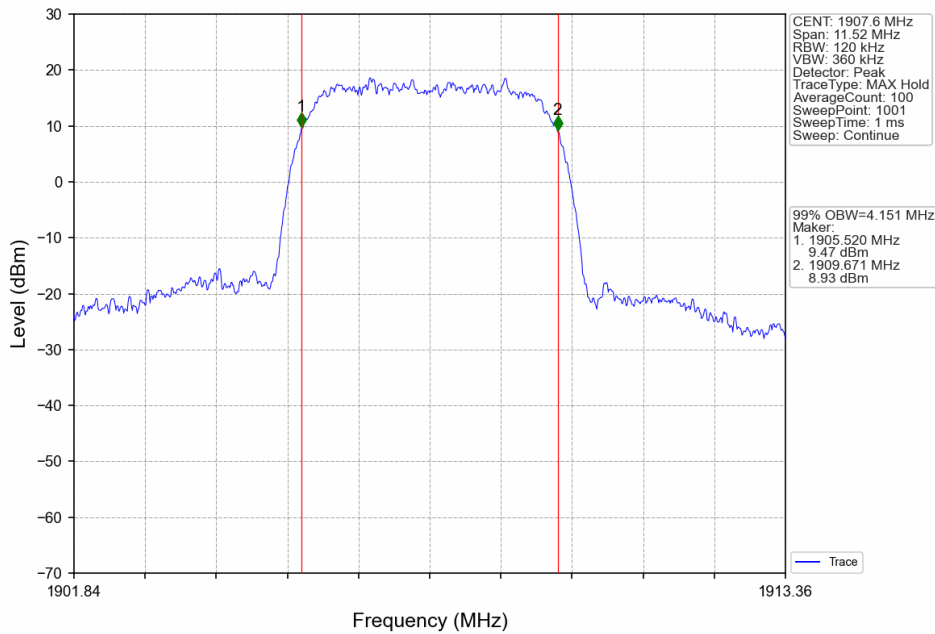
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Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



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 Rev.: 01  
 Page: 8 of 31

### 3.2 Band II\_XDB

#### 3.2.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.790	/	Pass
			1880	4.726	/	Pass
			1907.6	4.773	/	Pass



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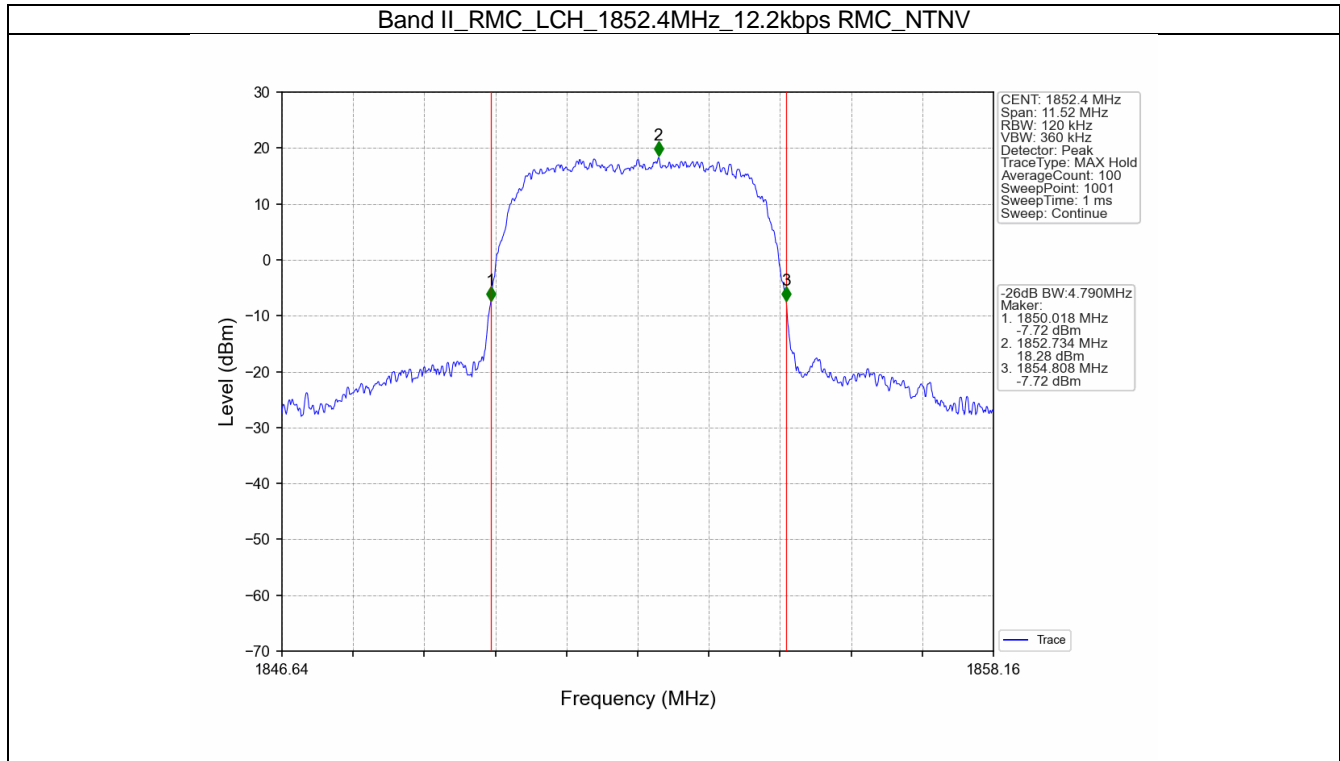
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3.2.2 Test Graph



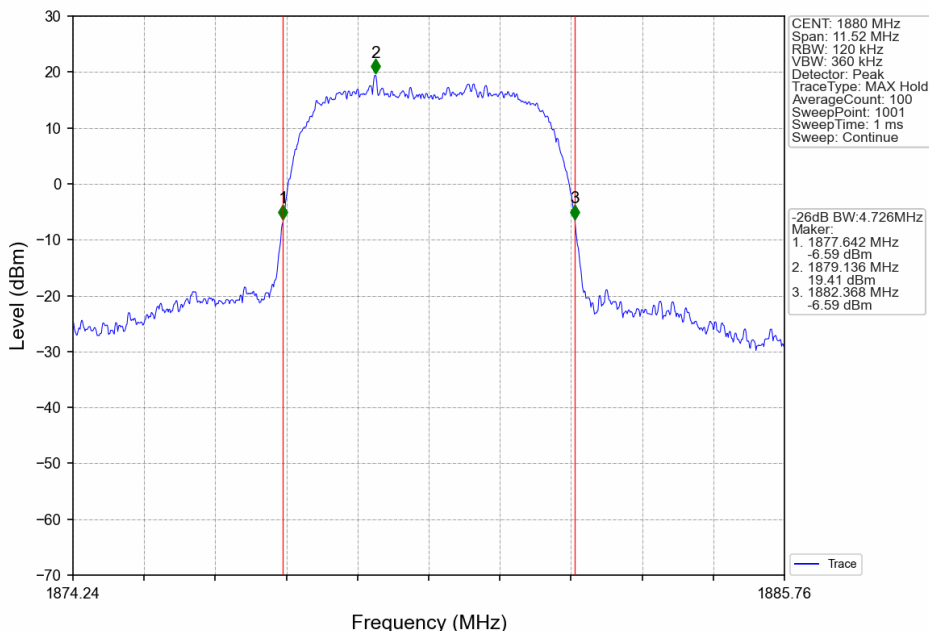
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Band II\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV

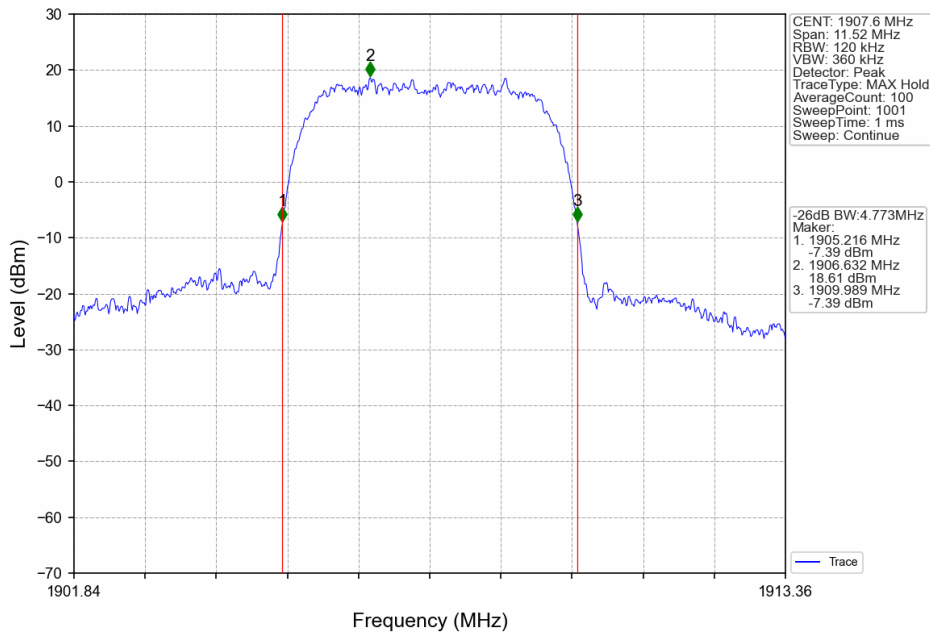


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Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



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## 4. Peak-Average Ratio

### 4.1 Band II

#### 4.1.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.61	<=13	Pass
			1880	2.68	<=13	Pass
			1907.6	2.65	<=13	Pass



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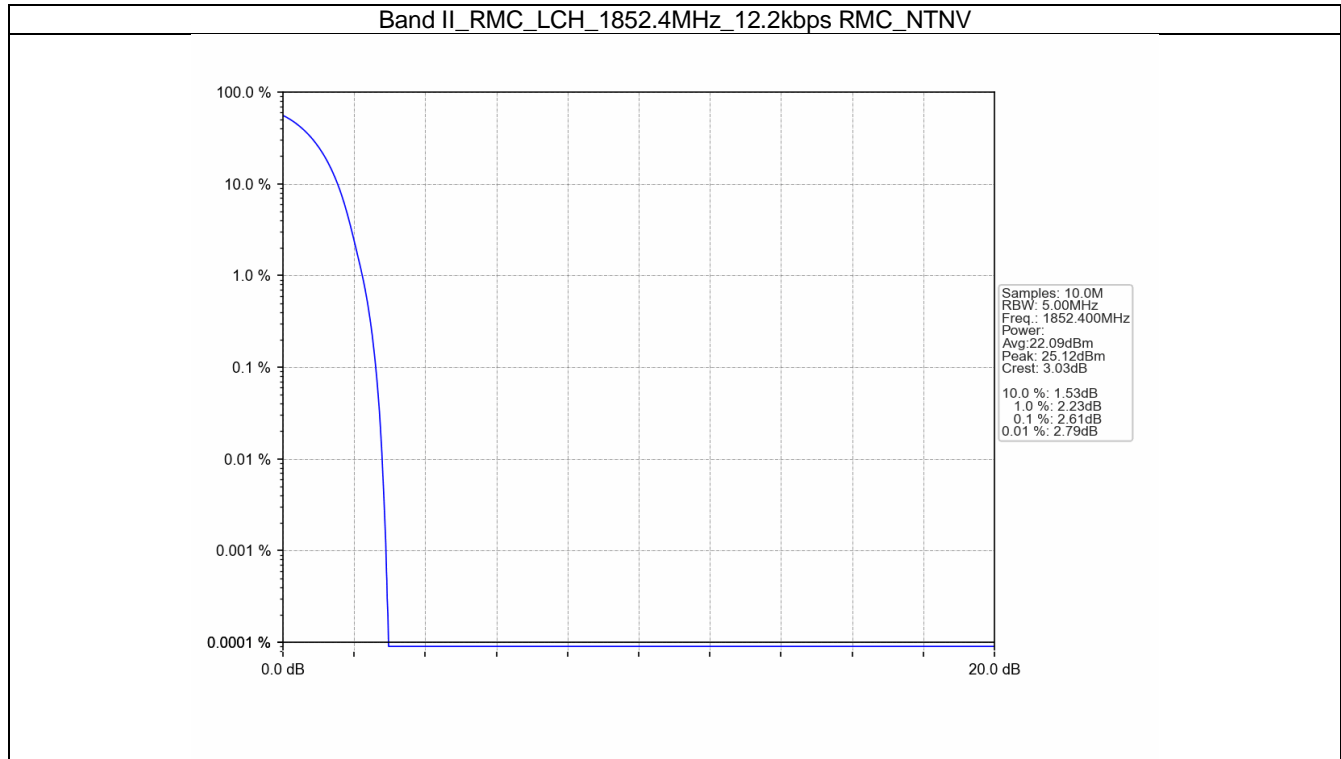
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4.1.2 Test Graph



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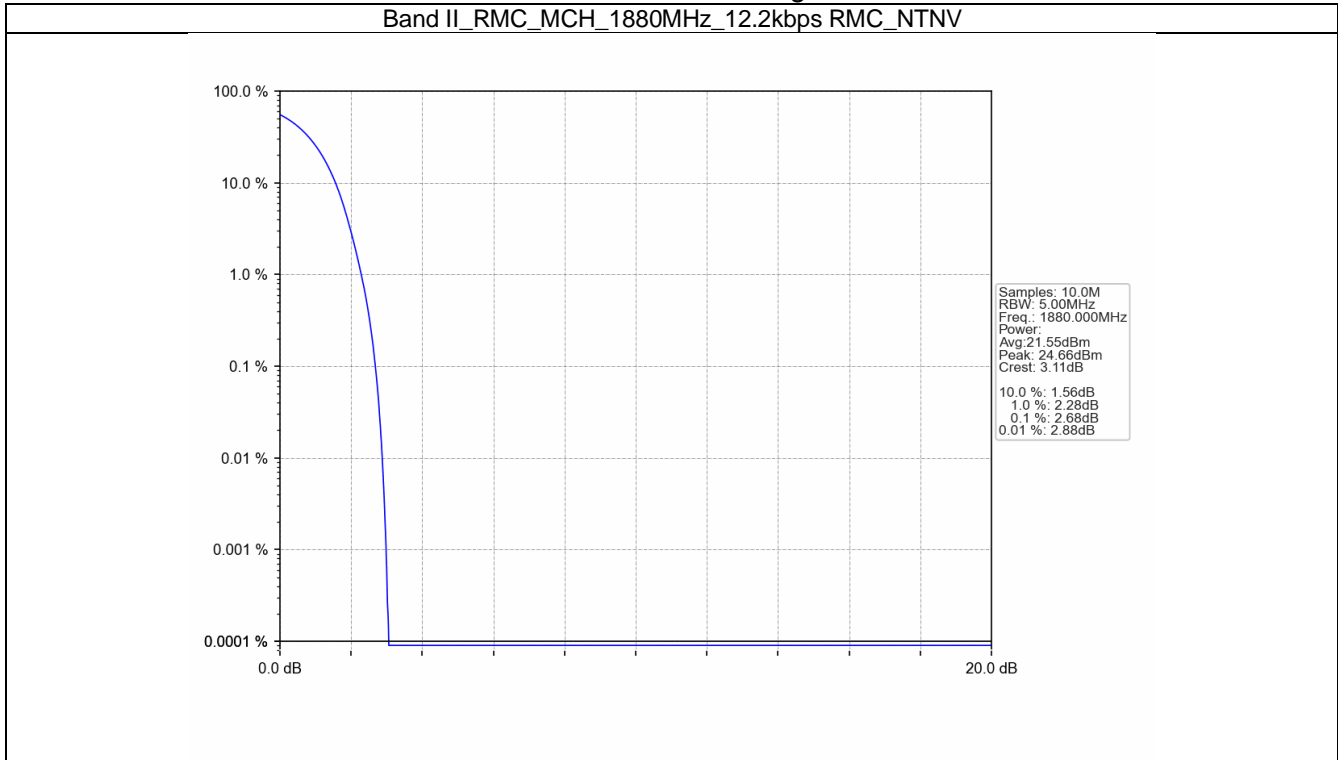
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Rev.: 01

Page: 14 of 31

Band II\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



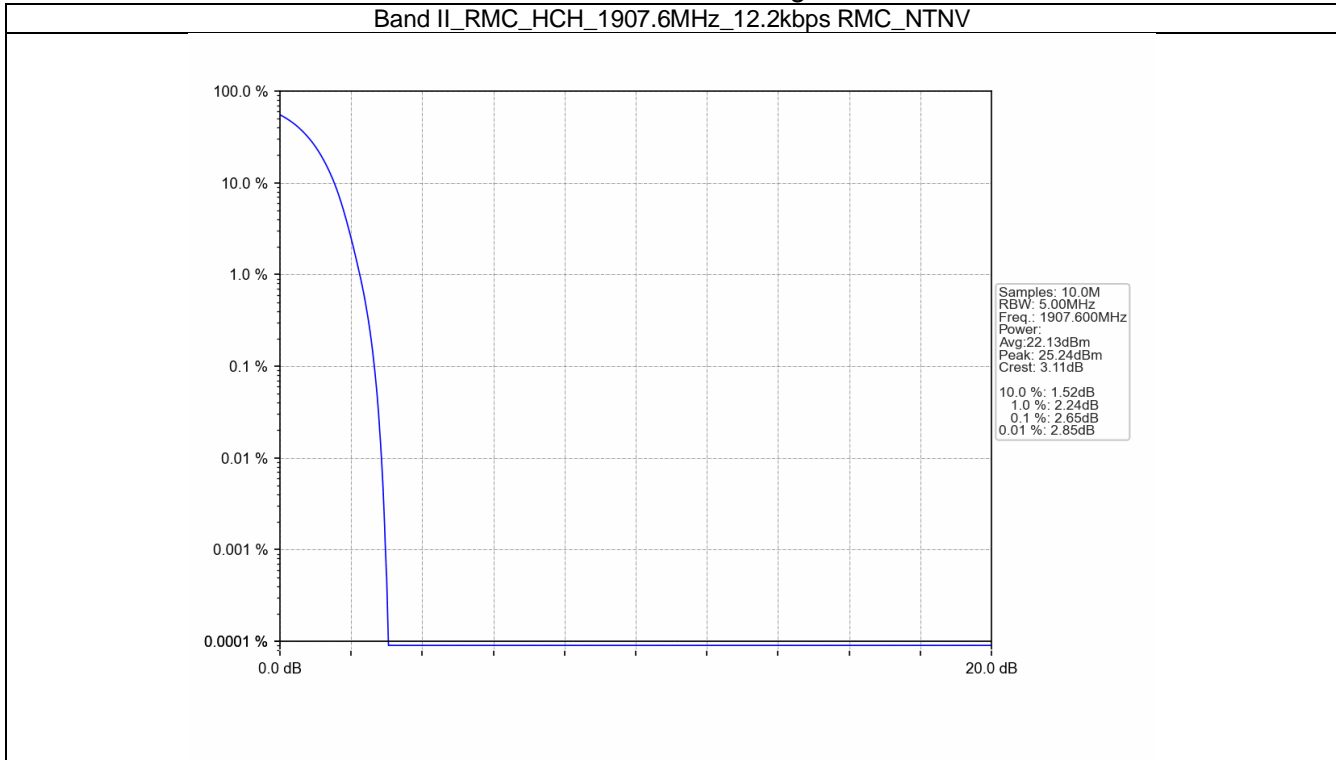
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Report No.: SUCR240500014801
Rev.: 01
Page: 16 of 31

5. Spurious Emission & Band Edge

5.1 Band II

5.1.1 Test Result

Table with 5 columns: ENV, Mode (Network, Subset), Frequency (MHz), Spurious Emission (Result, Limit), and Verdict. It lists test results for NTNV at frequencies 1852.4, 1880, and 1907.6 MHz, all resulting in 'Pass'.



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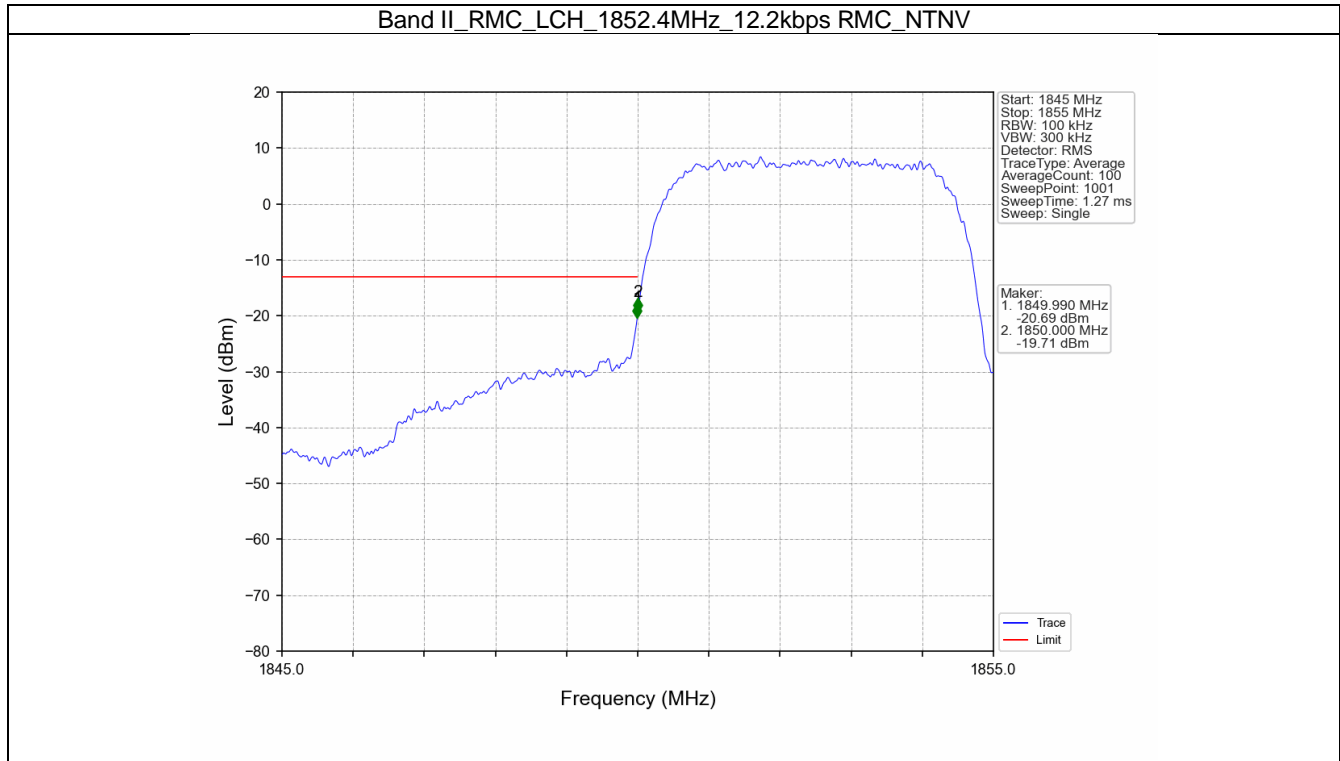
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5.1.2 Test Graph



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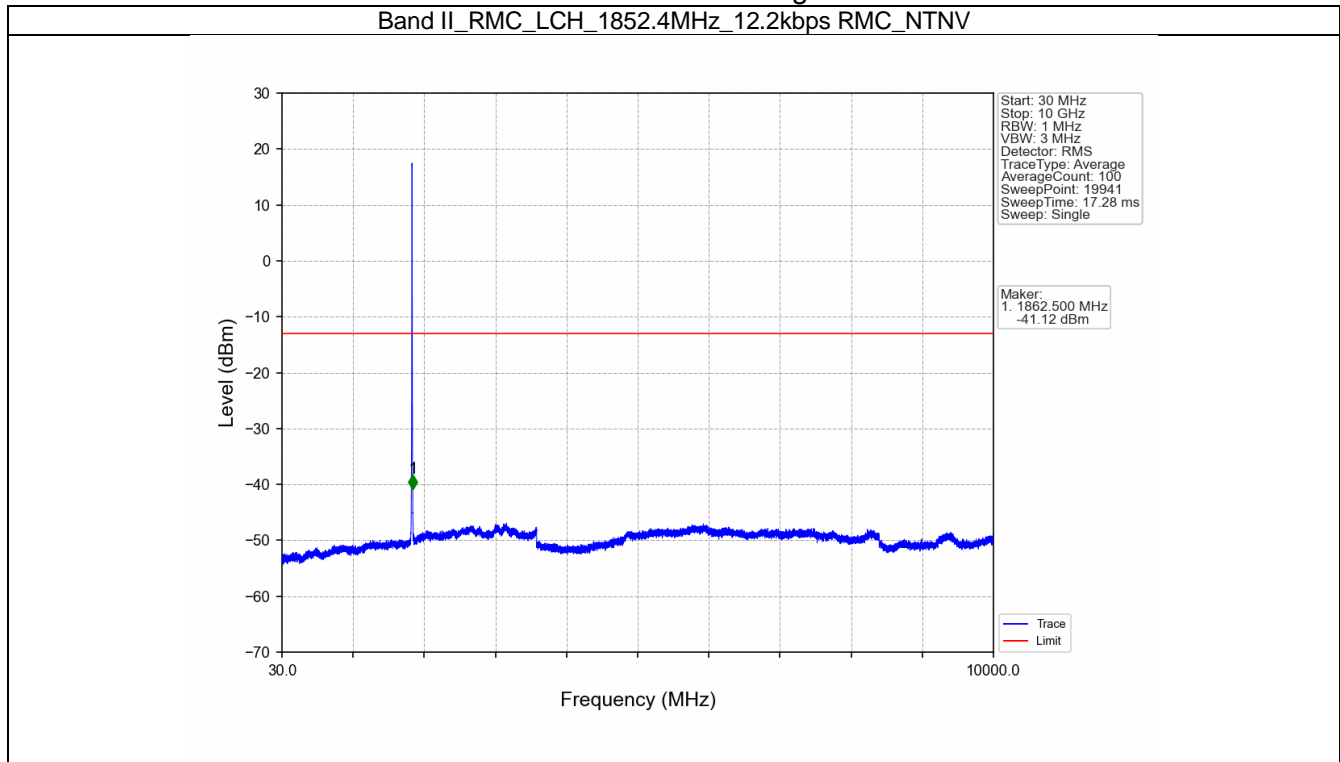
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Band II\_RMC\_LCH\_1852.4MHz\_12.2kbps RMC\_NTNV



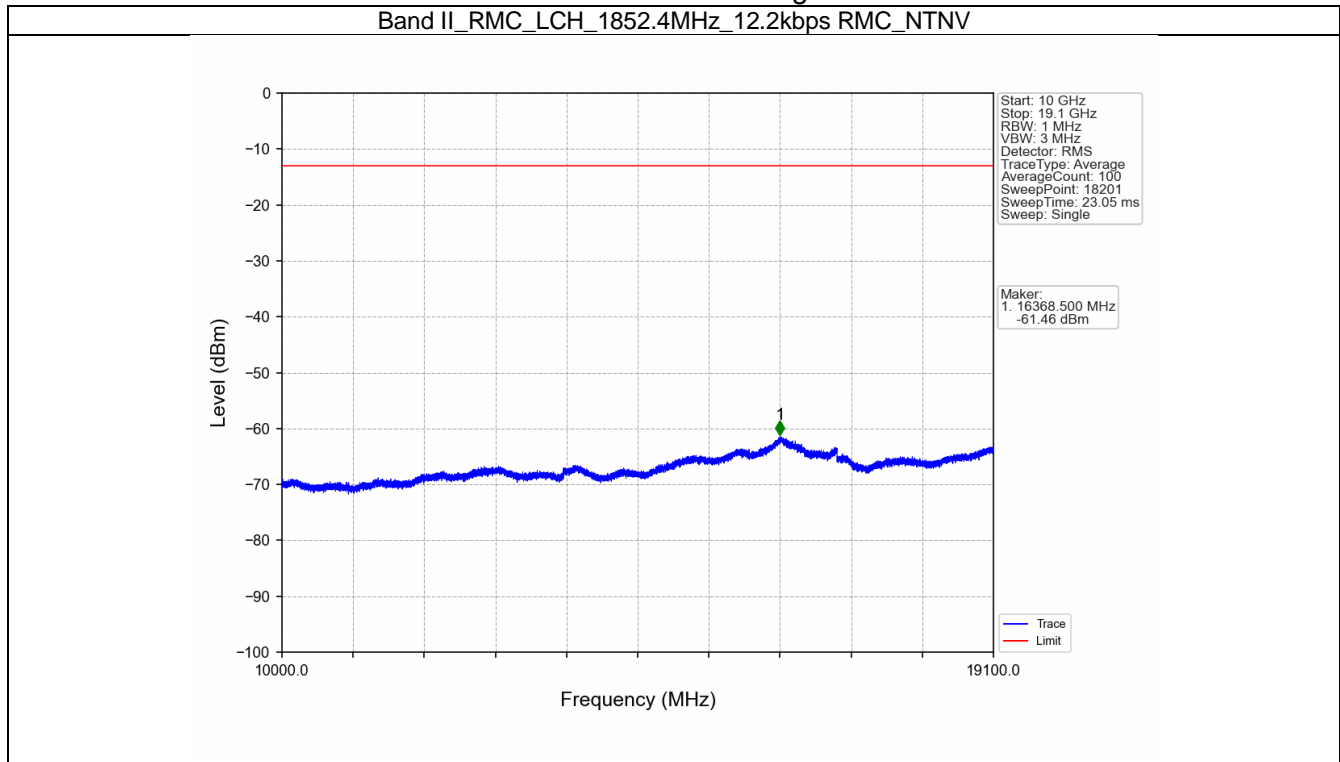
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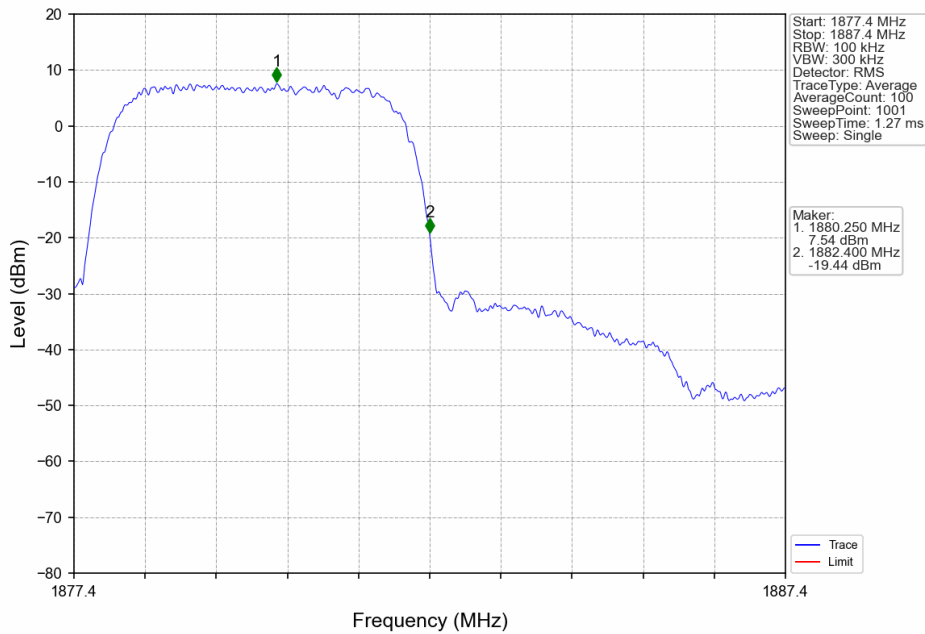
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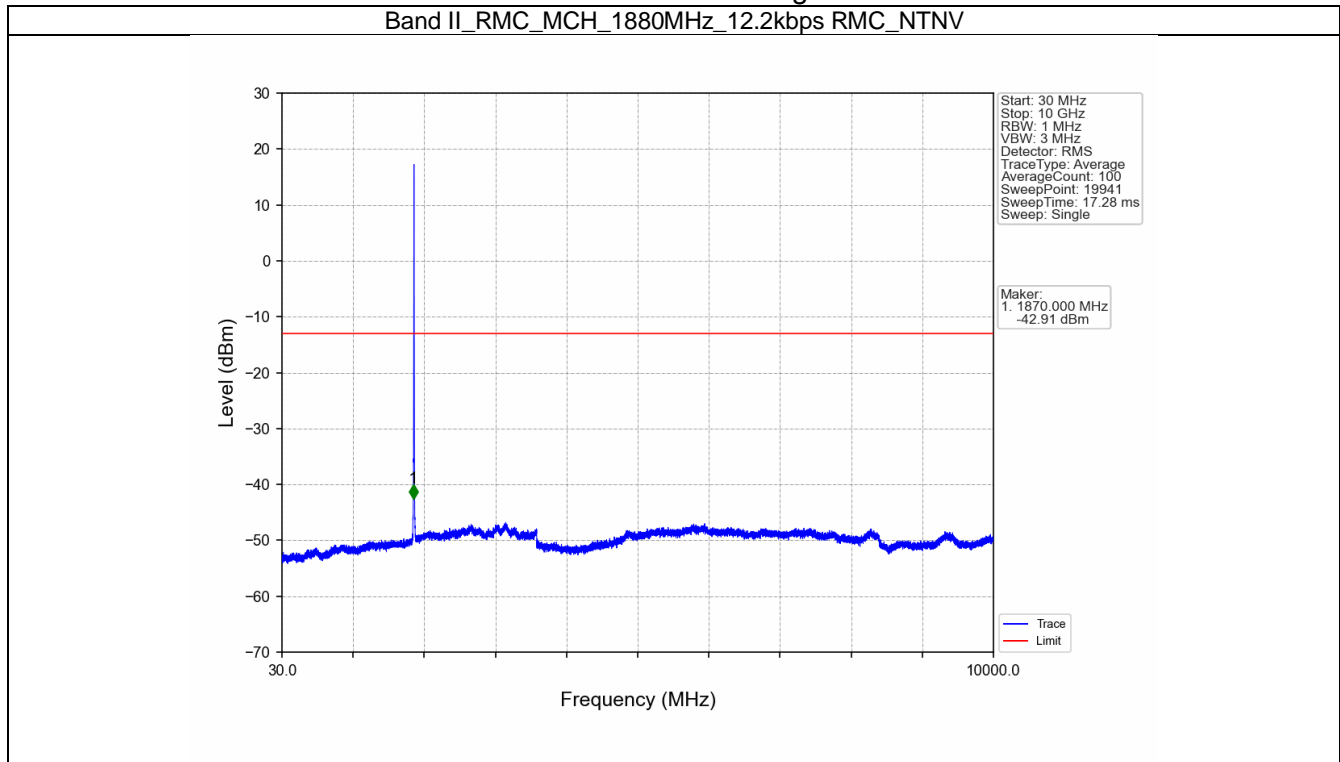
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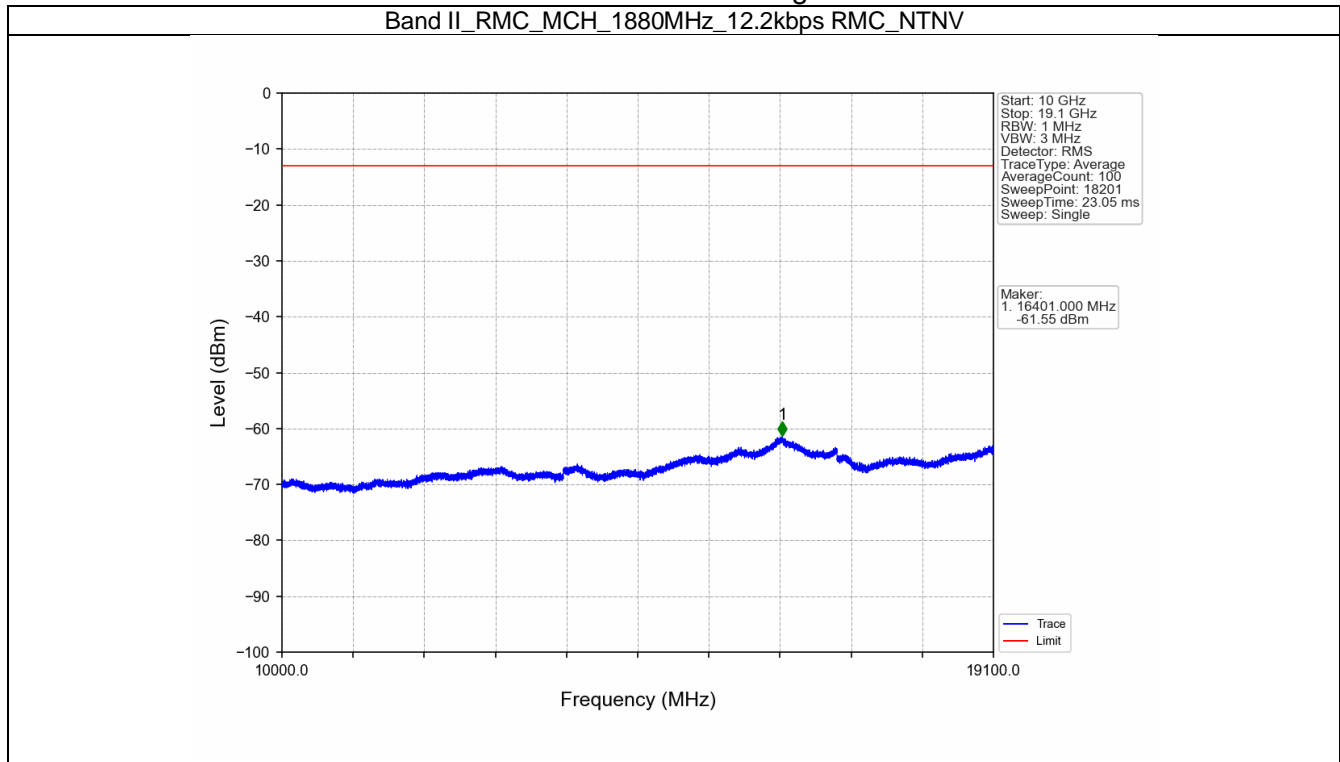
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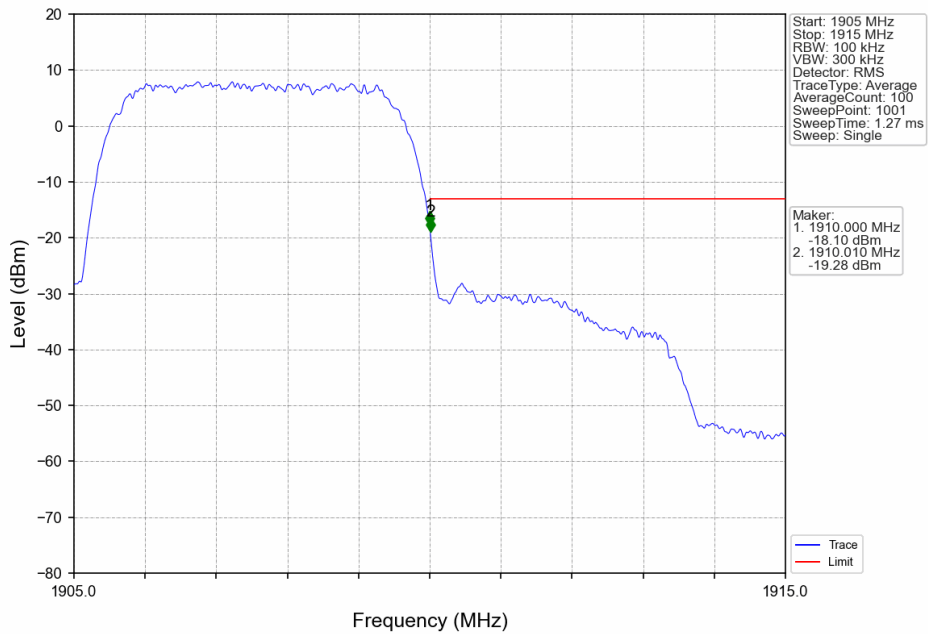
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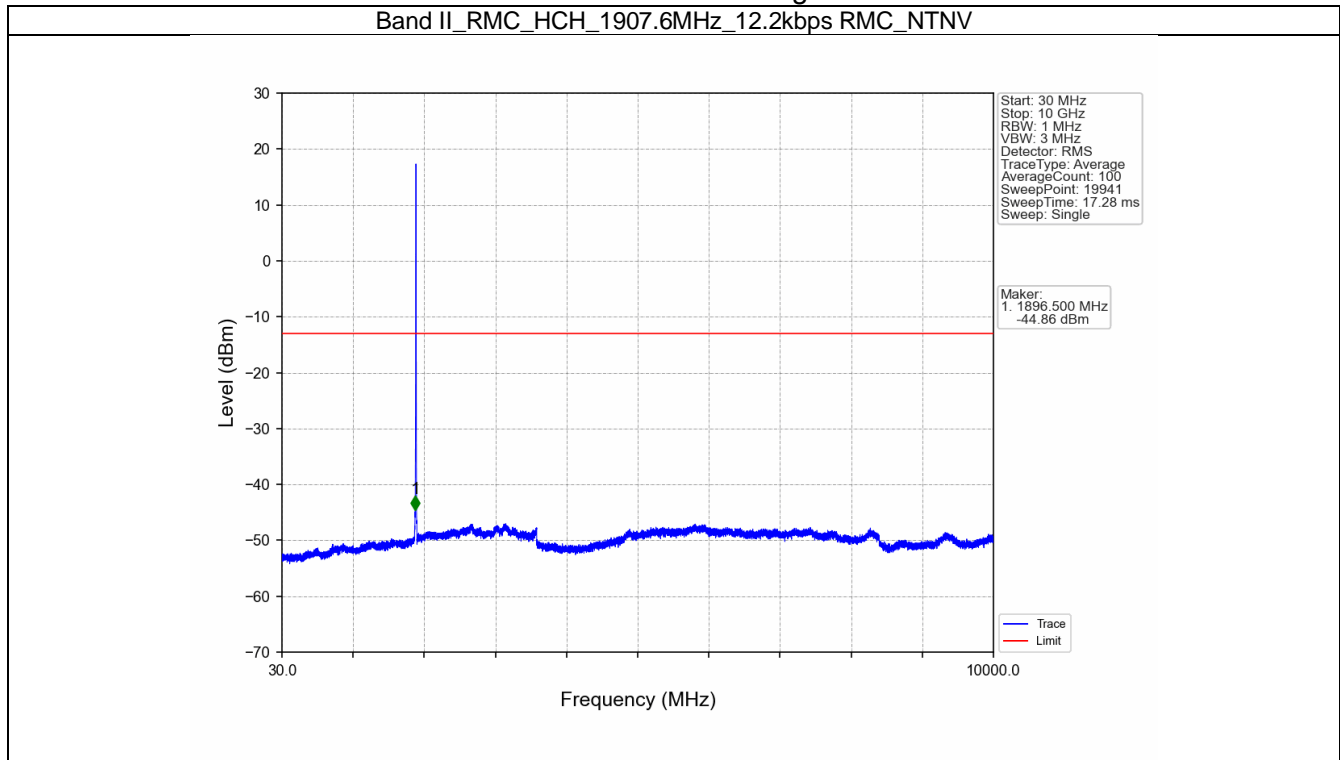
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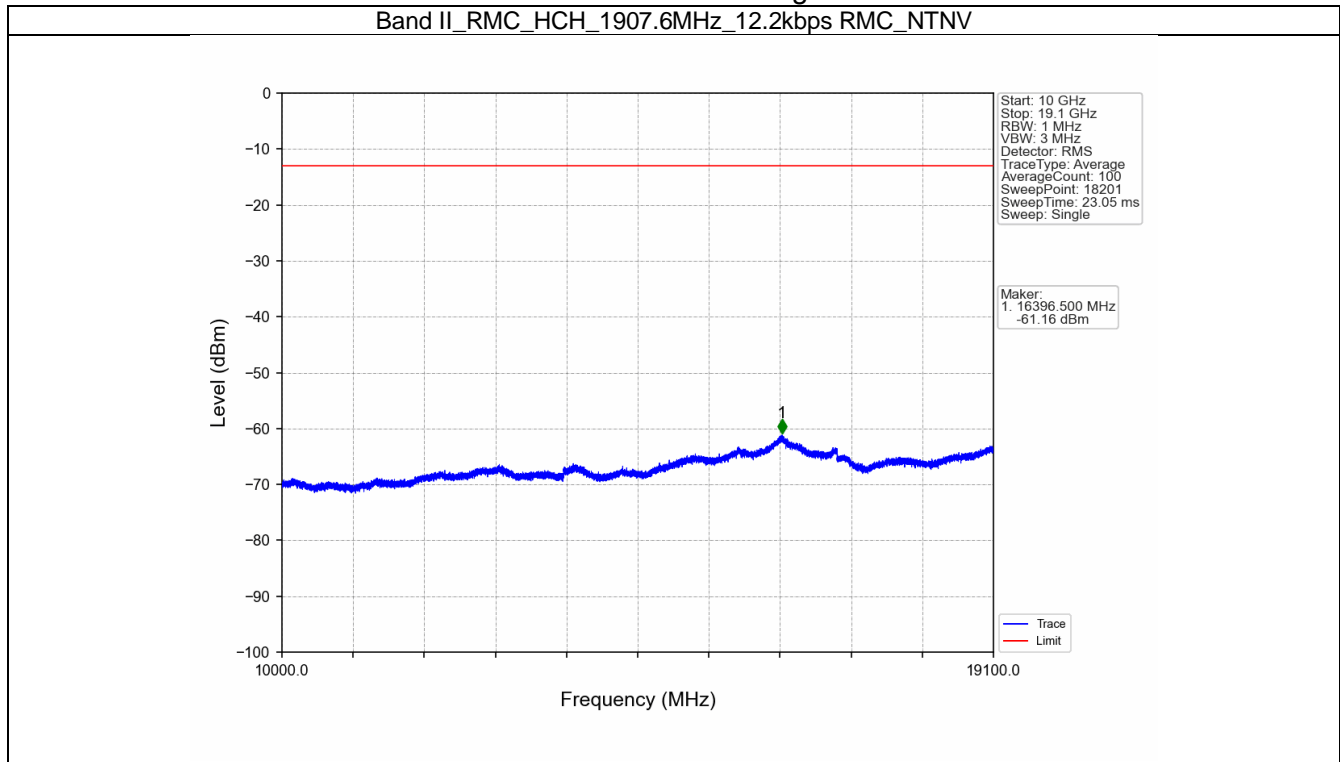
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## 6. Field Strength of Spurious Radiation

**Test Band = WCDMA Band II\_ TM1**

**Test Channel = Low Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8	37.93	-43.00	30.30	-70.04	-13.00	57.04	Horizontal
2	5557.2	36.93	-40.67	33.30	-65.71	-13.00	52.71	Horizontal
3	7409.6	34.23	-37.88	36.49	-62.42	-13.00	49.42	Horizontal
4	9262	29.77	-34.26	37.68	-62.07	-13.00	49.07	Horizontal
5	11114.4	28.78	-30.26	38.40	-58.34	-13.00	45.34	Horizontal
6	12966.8	30.04	-29.67	39.56	-55.32	-13.00	42.32	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8	36.57	-43.00	30.30	-71.40	-13.00	58.40	Vertical
2	5557.2	35.44	-40.67	33.30	-67.20	-13.00	54.20	Vertical
3	7409.6	33.35	-37.88	36.49	-63.30	-13.00	50.30	Vertical
4	9262	30.12	-34.26	37.68	-61.72	-13.00	48.72	Vertical
5	11114.4	28.34	-30.26	38.40	-58.78	-13.00	45.78	Vertical
6	12966.8	29.89	-29.67	39.56	-55.47	-13.00	42.47	Vertical



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Member of the SGS Group (SGS SA)

Test Band = WCDMA Band II\_ TM1  
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	37.51	-42.94	30.49	-70.21	-13.00	57.21	Horizontal
2	5640	35.25	-40.63	33.58	-67.06	-13.00	54.06	Horizontal
3	7520	33.96	-37.77	36.62	-62.45	-13.00	49.45	Horizontal
4	9400	31.22	-33.75	37.72	-60.07	-13.00	47.07	Horizontal
5	11280	29.13	-30.09	38.40	-57.82	-13.00	44.82	Horizontal
6	13160	28.29	-29.29	39.71	-56.55	-13.00	43.55	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	36.37	-42.94	30.49	-71.35	-13.00	58.35	Vertical
2	5640	34.87	-40.63	33.58	-67.44	-13.00	54.44	Vertical
3	7520	32.98	-37.77	36.62	-63.43	-13.00	50.43	Vertical
4	9400	30.98	-33.75	37.72	-60.31	-13.00	47.31	Vertical
5	11280	28.84	-30.09	38.40	-58.11	-13.00	45.11	Vertical
6	13160	28.49	-29.29	39.71	-56.35	-13.00	43.35	Vertical



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Test Band = WCDMA Band II\_ TM1  
 Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2	37.22	-42.89	30.67	-70.26	-13.00	57.26	Horizontal
2	5722.8	35.07	-40.44	33.86	-66.77	-13.00	53.77	Horizontal
3	7630	32.79	-37.60	36.73	-63.34	-13.00	50.34	Horizontal
4	9538	32.51	-33.73	37.76	-58.72	-13.00	45.72	Horizontal
5	11445.6	28.53	-30.19	38.40	-58.52	-13.00	45.52	Horizontal
6	13353.2	28.66	-29.74	39.85	-56.49	-13.00	43.49	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2	36.62	-42.89	30.67	-70.86	-13.00	57.86	Vertical
2	5722.8	34.53	-40.44	33.86	-67.31	-13.00	54.31	Vertical
3	7630	33.10	-37.60	36.73	-63.03	-13.00	50.03	Vertical
4	9538	32.24	-33.73	37.76	-58.99	-13.00	45.99	Vertical
5	11445.6	28.35	-30.19	38.40	-58.70	-13.00	45.70	Vertical
6	13353.2	28.32	-29.74	39.85	-56.83	-13.00	43.83	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Test on the worst case:

**Test Band = WCDMA BAND II \_ TM1**  
**Test Channel = Low Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8	44.09	-48.49	28.99	-70.68	-13.00	57.68	Horizontal
2	5557.2	43.56	-47.66	32.71	-66.65	-13.00	53.65	Horizontal
3	7409.6	42.47	-46.17	36.58	-62.38	-13.00	49.38	Horizontal
4	9262	38.72	-43.13	37.84	-61.83	-13.00	48.83	Horizontal
5	11114.4	37.62	-40.36	39.38	-58.62	-13.00	45.62	Horizontal
6	12966.8	35.80	-39.40	38.62	-60.24	-13.00	47.24	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8	44.06	-48.49	28.99	-70.71	-13.00	57.71	Vertical
2	5557.2	43.50	-47.66	32.71	-66.71	-13.00	53.71	Vertical
3	7409.6	43.13	-46.17	36.58	-61.72	-13.00	48.72	Vertical
4	9262	38.77	-43.13	37.84	-61.78	-13.00	48.78	Vertical
5	11114.4	36.81	-40.36	39.38	-59.43	-13.00	46.43	Vertical
6	12966.8	35.94	-39.40	38.62	-60.10	-13.00	47.10	Vertical



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Report No.: SUCR240500014801  
 Rev.: 01  
 Page: 30 of 31

Test Band = WCDMA BAND II \_ TM1  
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	44.58	-48.31	29.06	-69.93	-13.00	56.93	Horizontal
2	5640	43.11	-47.62	32.73	-67.04	-13.00	54.04	Horizontal
3	7520	42.50	-45.85	36.78	-61.83	-13.00	48.83	Horizontal
4	9400	39.37	-43.05	37.96	-60.98	-13.00	47.98	Horizontal
5	11280	37.00	-40.44	39.34	-59.35	-13.00	46.35	Horizontal
6	13160	35.10	-38.58	38.97	-59.77	-13.00	46.77	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3758.25	47.52	-48.32	29.06	-67.00	-13.00	54.00	Vertical
2	5640	43.11	-47.62	32.73	-67.04	-13.00	54.04	Vertical
3	7520	42.56	-45.85	36.78	-61.77	-13.00	48.77	Vertical
4	9400	39.99	-43.05	37.96	-60.36	-13.00	47.36	Vertical
5	11280	37.11	-40.44	39.34	-59.24	-13.00	46.24	Vertical
6	13160	34.69	-38.58	38.97	-60.18	-13.00	47.18	Vertical



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Test Band = WCDMA BAND II \_ TM1  
 Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2	44.74	-48.20	29.14	-69.58	-13.00	56.58	Horizontal
2	5722.8	43.92	-47.53	32.74	-66.12	-13.00	53.12	Horizontal
3	7630	41.43	-44.77	36.64	-61.95	-13.00	48.95	Horizontal
4	9538	39.02	-42.32	38.08	-60.48	-13.00	47.48	Horizontal
5	11445.6	37.32	-40.07	39.31	-58.70	-13.00	45.70	Horizontal
6	13353.2	36.22	-39.13	39.41	-58.76	-13.00	45.76	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2	44.53	-48.20	29.14	-69.79	-13.00	56.79	Vertical
2	5722.8	44.34	-47.53	32.74	-65.70	-13.00	52.70	Vertical
3	7630	41.89	-44.77	36.64	-61.49	-13.00	48.49	Vertical
4	9538	39.68	-42.32	38.08	-59.82	-13.00	46.82	Vertical
5	11445.6	37.69	-40.07	39.31	-58.33	-13.00	45.33	Vertical
6	13353.2	35.57	-39.13	39.41	-59.41	-13.00	46.41	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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