

Report No.: SEWM2311000466RG01

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Appendix B.3

WCDMA Band II

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band II_EIRPAnt3

1.1.1 Test Result

ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	23.47	0.95	24.42	<=33.00	Pass
			1880	23.71	0.95	24.66	<=33.00	Pass
			1907.6	23.28	0.95	24.23	<=33.00	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
RMC	1852.4	20	3.4	-6.265	-0.0034	Pass
			3.8	-4.302	-0.0023	Pass
			4.4	4.267	0.0023	Pass
			-30	3.8	0.0033	Pass
			-20	3.8	0.0001	Pass
		-10	3.8	-1.946	-0.0011	Pass
			0	-2.462	-0.0013	Pass
			10	-2.027	-0.0011	Pass
			30	-2.470	-0.0013	Pass
			40	-1.800	-0.0010	Pass
		1880	50	-1.742	-0.0009	Pass
			3.4	0.258	0.0001	Pass
			20	-1.008	-0.0005	Pass
			3.8	-0.345	-0.0002	Pass
			-30	3.8	-0.0004	Pass
		-20	-20	3.8	0.0000	Pass
			-10	3.8	0.0003	Pass
			0	3.8	0.0001	Pass
			10	0.200	0.0003	Pass
			30	0.528	0.0006	Pass
		1907.6	40	3.8	0.601	Pass
			50	3.8	0.633	Pass
			3.4	0.350	0.0002	Pass
			20	1.560	0.0008	Pass
			3.8	2.025	0.0011	Pass
		-30	-30	3.8	-0.459	Pass
			-20	3.8	0.0009	Pass
			-10	3.8	0.0007	Pass
			0	3.8	0.0004	Pass
			10	0.852	0.0007	Pass
		-10	30	3.8	0.186	Pass
			40	3.8	1.689	Pass
			50	3.8	0.339	Pass

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3. Field Strength of Spurious Radiation

Test Band = WCDMA Band II_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	39.73	-45.52	28.81	-72.25	-13.00	59.25	Horizontal
2	5557.2000	39.80	-45.14	32.61	-67.99	-13.00	54.99	Horizontal
3	7409.6000	37.44	-43.38	36.35	-64.86	-13.00	51.86	Horizontal
4	9262.0000	34.71	-40.23	36.80	-63.98	-13.00	50.98	Horizontal
5	11114.4000	29.20	-37.88	38.71	-65.23	-13.00	52.23	Horizontal
6	13962	29.05	-35.62	40.83	-61.00	-13.00	48.00	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	39.87	-45.52	28.81	-72.11	-13.00	59.11	Vertical
2	5557.2000	39.49	-45.14	32.61	-68.30	-13.00	55.30	Vertical
3	7409.6000	38.05	-43.38	36.35	-64.25	-13.00	51.25	Vertical
4	9262.0000	34.45	-40.23	36.80	-64.24	-13.00	51.24	Vertical
5	11114.4000	29.40	-37.88	38.71	-65.03	-13.00	52.03	Vertical
6	13717.5	30.10	-36.20	40.39	-60.97	-13.00	47.97	Vertical

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

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	39.99	-45.75	28.86	-72.16	-13.00	59.16	Horizontal
2	5640.0000	38.48	-44.98	32.63	-69.13	-13.00	56.13	Horizontal
3	7520.0000	38.40	-43.10	36.61	-63.35	-13.00	50.35	Horizontal
4	9400.0000	34.24	-39.83	37.06	-63.79	-13.00	50.79	Horizontal
5	11280.0000	29.68	-37.41	38.73	-64.27	-13.00	51.27	Horizontal
6	13430.25	29.53	-36.52	39.87	-62.38	-13.00	49.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	39.81	-45.75	28.86	-72.34	-13.00	59.34	Vertical
2	5640.0000	38.29	-44.98	32.63	-69.32	-13.00	56.32	Vertical
3	7520.0000	36.65	-43.10	36.61	-65.10	-13.00	52.10	Vertical
4	9400.0000	34.30	-39.83	37.06	-63.73	-13.00	50.73	Vertical
5	11280.0000	30.46	-37.41	38.73	-63.49	-13.00	50.49	Vertical
6	13608	29.97	-36.09	40.19	-61.18	-13.00	48.18	Vertical

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

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	40.11	-45.97	28.92	-72.21	-13.00	59.21	Horizontal
2	5722.8000	39.50	-44.83	32.64	-67.94	-13.00	54.94	Horizontal
3	7630.0000	36.90	-42.99	36.65	-64.70	-13.00	51.70	Horizontal
4	9538.0000	32.49	-40.01	37.32	-65.46	-13.00	52.46	Horizontal
5	11445.6000	29.91	-37.34	38.74	-63.95	-13.00	50.95	Horizontal
6	13770.75	30.13	-36.33	40.49	-60.97	-13.00	47.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	40.22	-45.97	28.92	-72.10	-13.00	59.10	Vertical
2	5722.8000	39.63	-44.83	32.64	-67.81	-13.00	54.81	Vertical
3	7630.0000	37.21	-42.99	36.65	-64.39	-13.00	51.39	Vertical
4	9538.0000	32.80	-40.01	37.32	-65.15	-13.00	52.15	Vertical
5	11445.6000	30.42	-37.34	38.74	-63.44	-13.00	50.44	Vertical
6	13701	30.14	-36.16	40.36	-60.92	-13.00	47.92	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

2) All antennas of RSE are tested, and only the worst data is presented.

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4. 99% & 26dB Bandwidth

4.1 Band II_OBW

4.1.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.171	/	Pass
			1880	4.164	/	Pass
			1907.6	4.172	/	Pass

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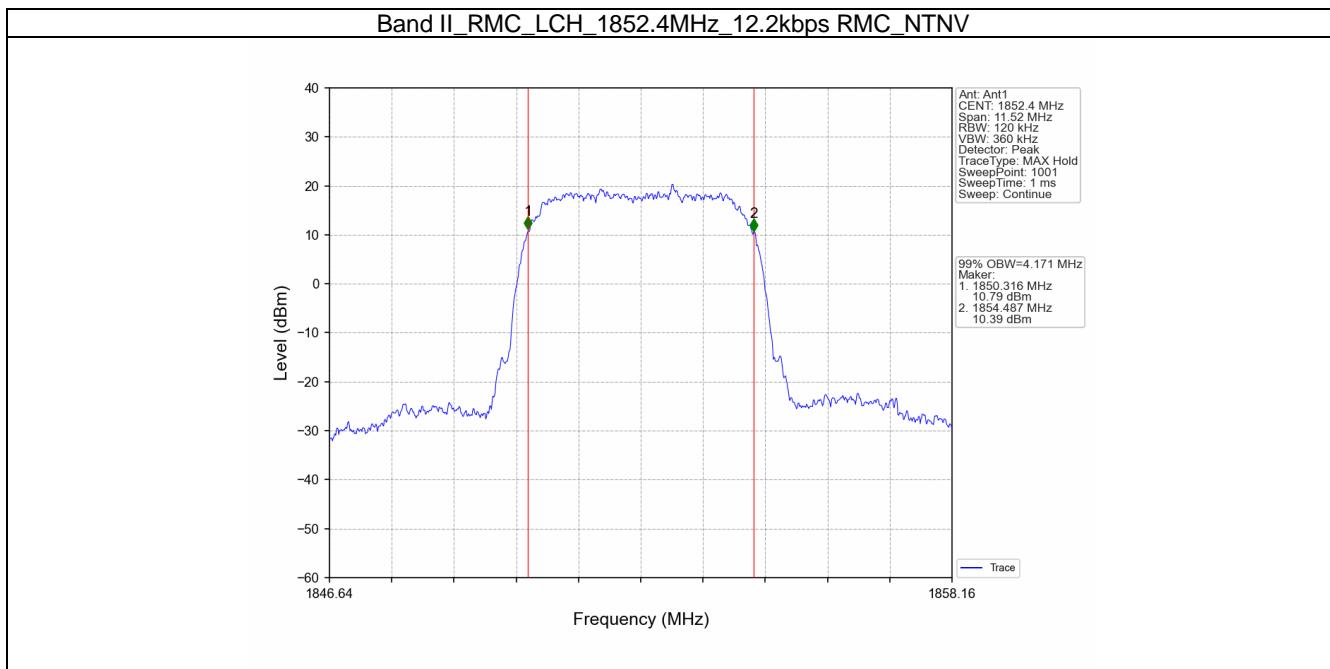
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4.1.2 Test Graph



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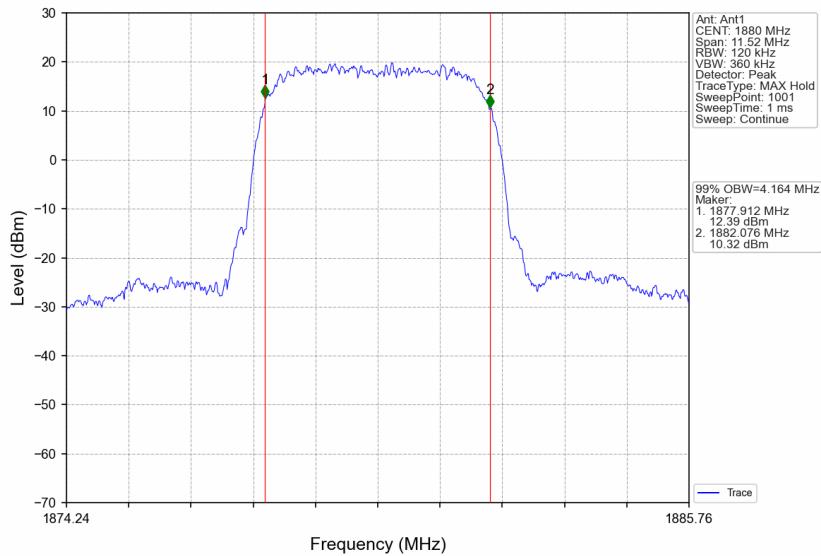
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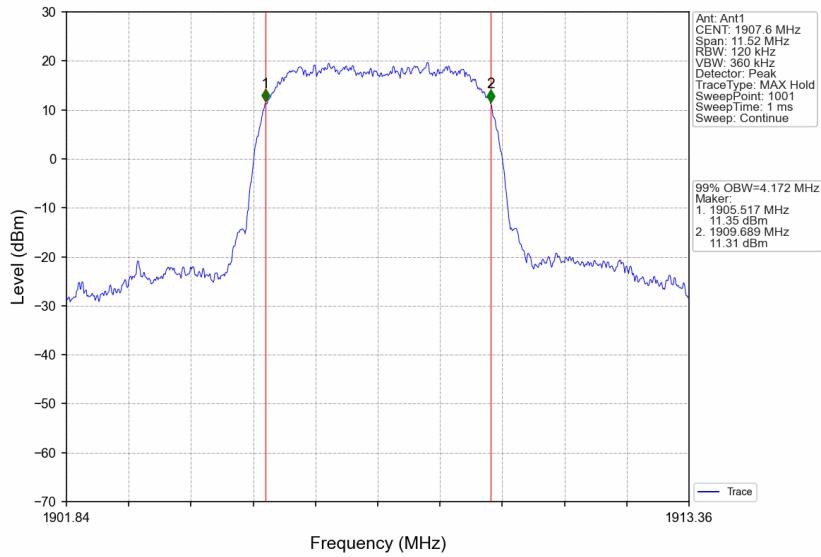
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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4.2 Band II_XDB

4.2.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.728	/	Pass
			1880	4.722	/	Pass
			1907.6	4.741	/	Pass

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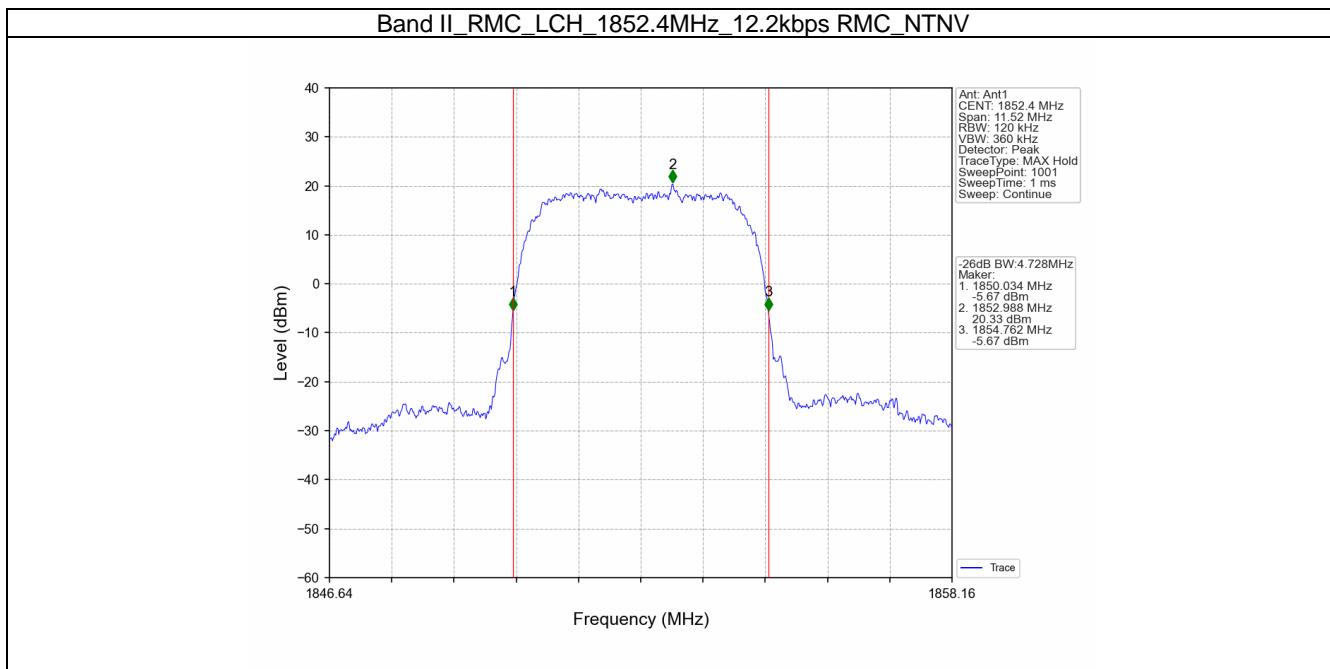
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4.2.2 Test Graph



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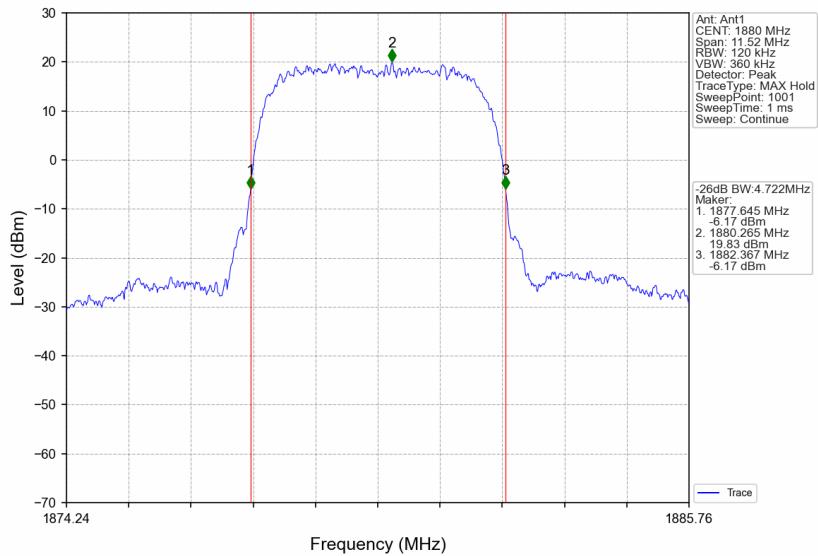
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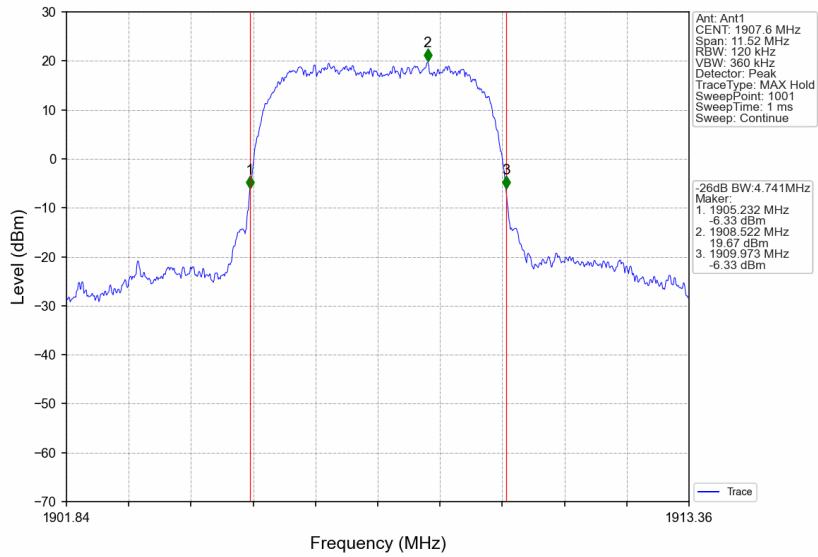
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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5. Peak-Average Ratio

5.1 Band II

5.1.1 Test Result

ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict		
	Network	Subset		Result	Limit			
				1852.4	3.03			
NTNV	RMC	12.2kbps RMC		1880	3.03	<=13	Pass	
				1907.6	3.02	<=13	Pass	
							Pass	

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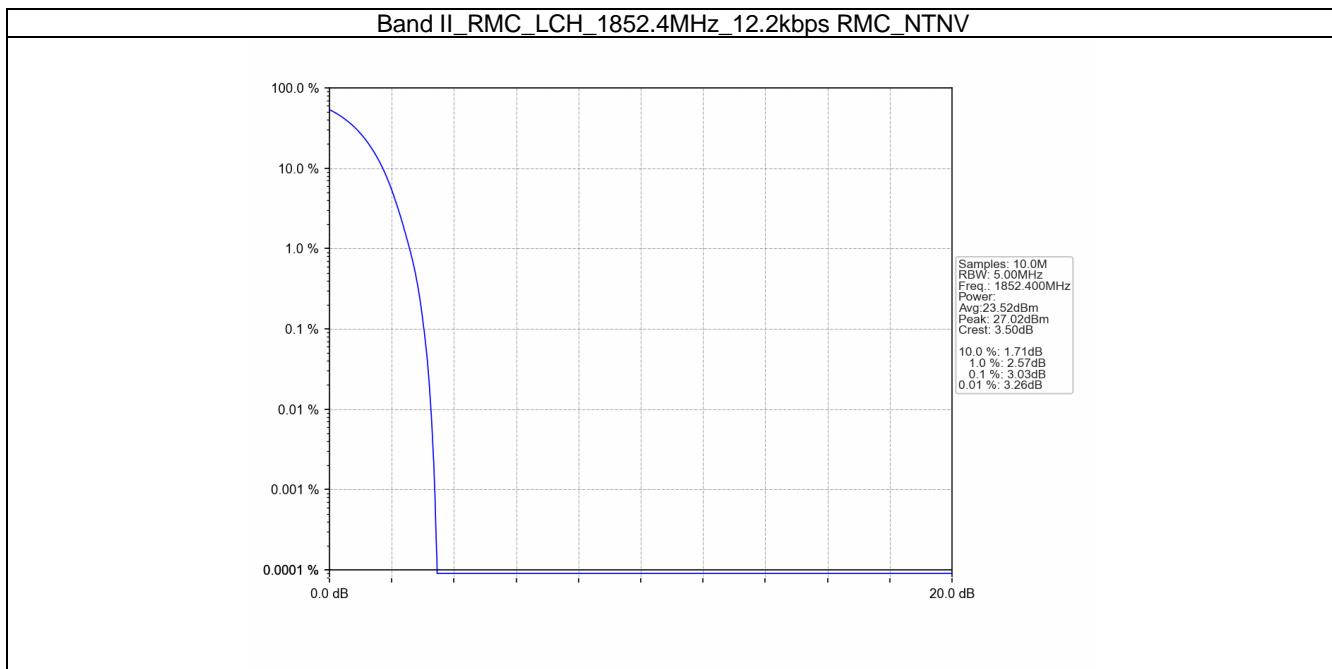
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5.1.2 Test Graph



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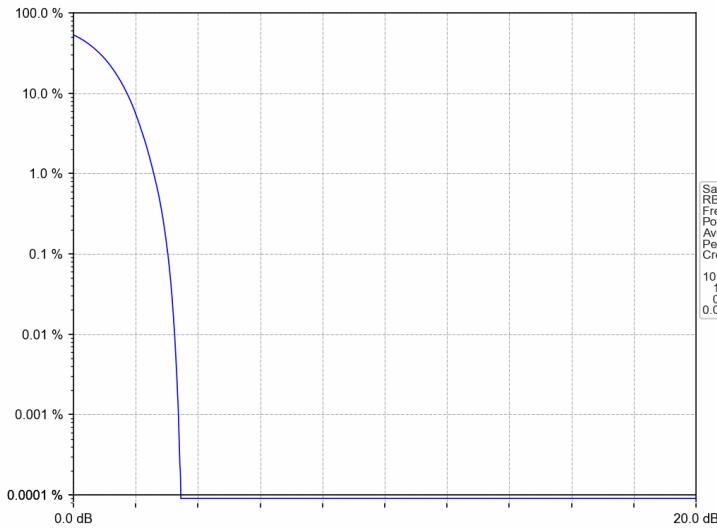
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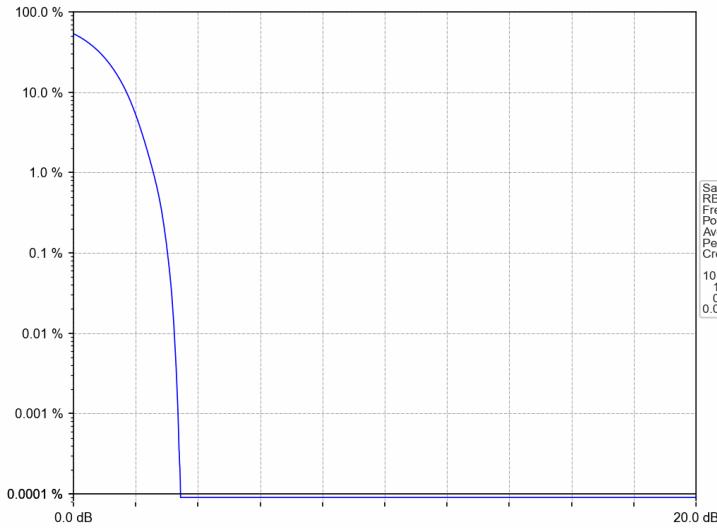
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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6. Spurious Emission & Band Edges

6.1 Band II

6.1.1 Test Result

ENV	Band II			Verdict	
	Mode		Frequency (MHz)		
	Network	Subset			
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph	
			1880	Refer To Test Graph	
			1907.6	Refer To Test Graph	



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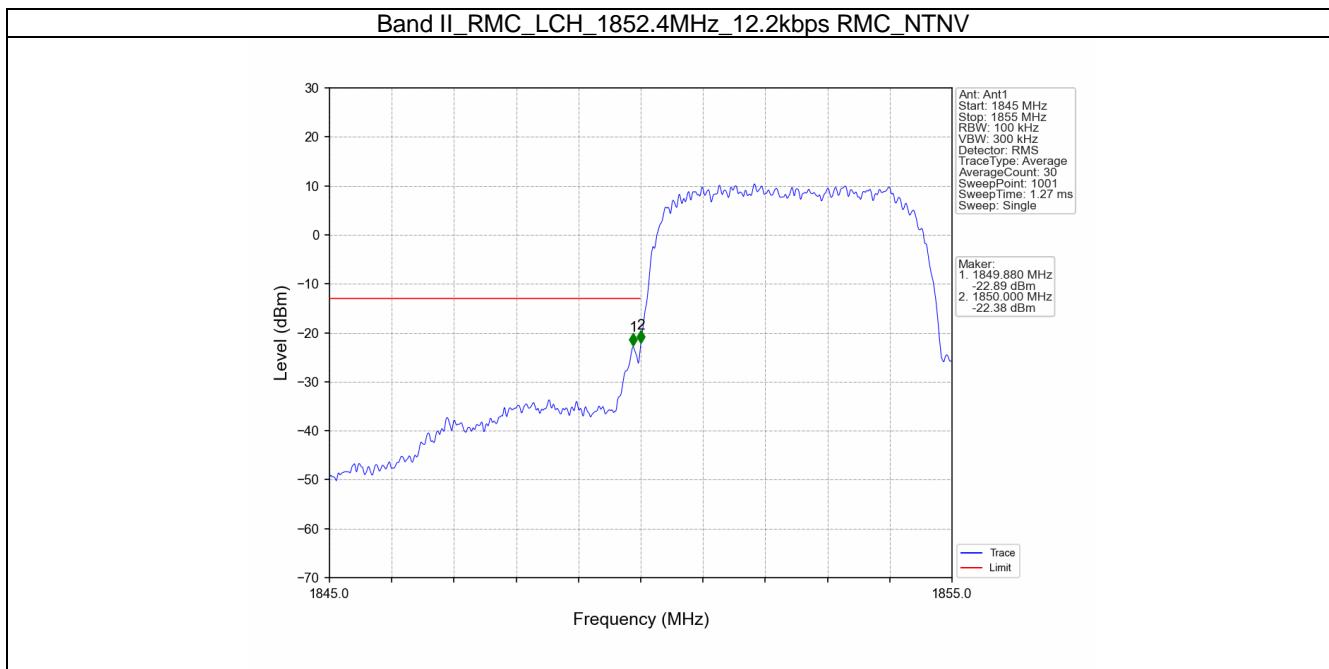
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6.1.2 Test Graph



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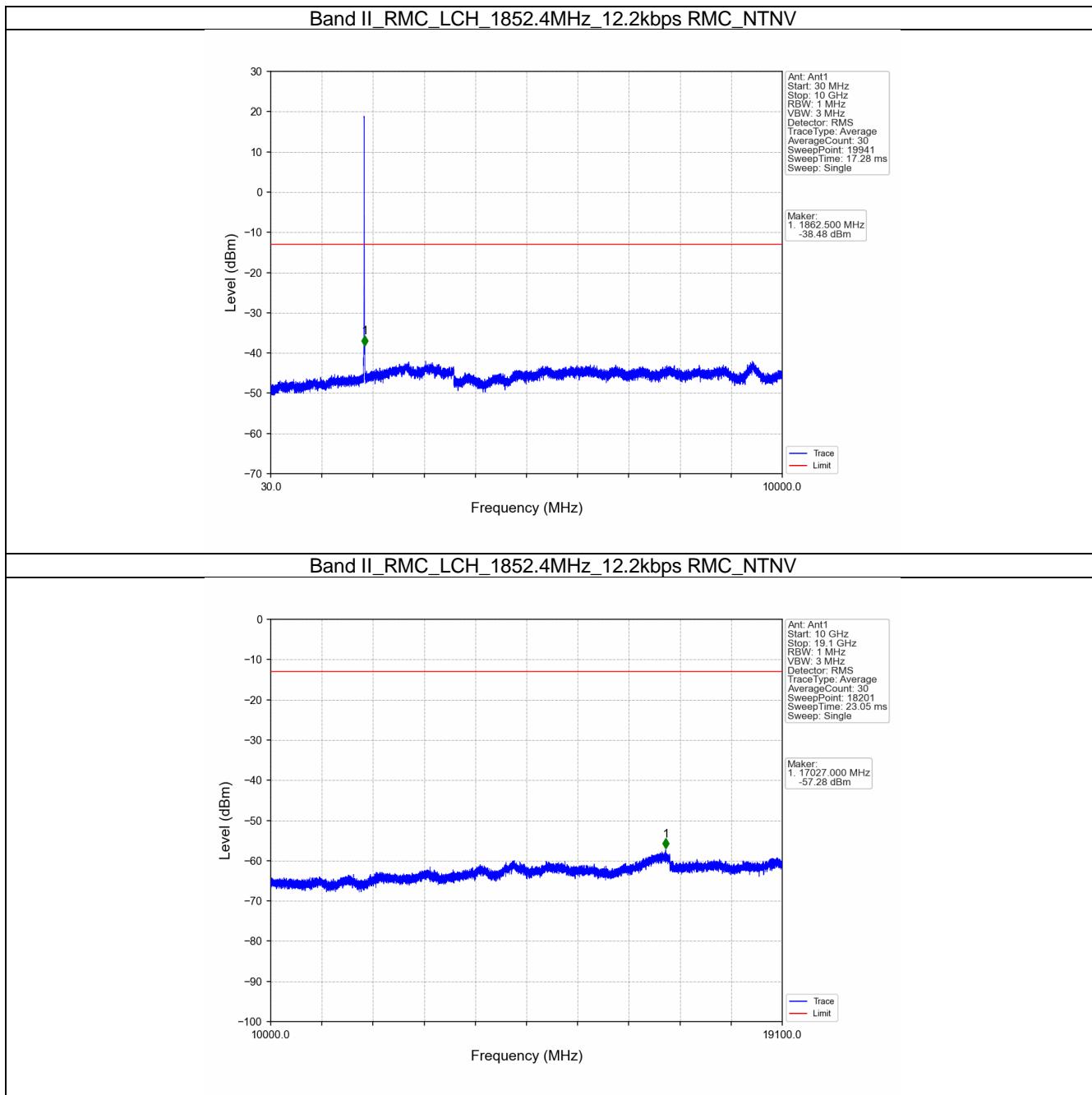
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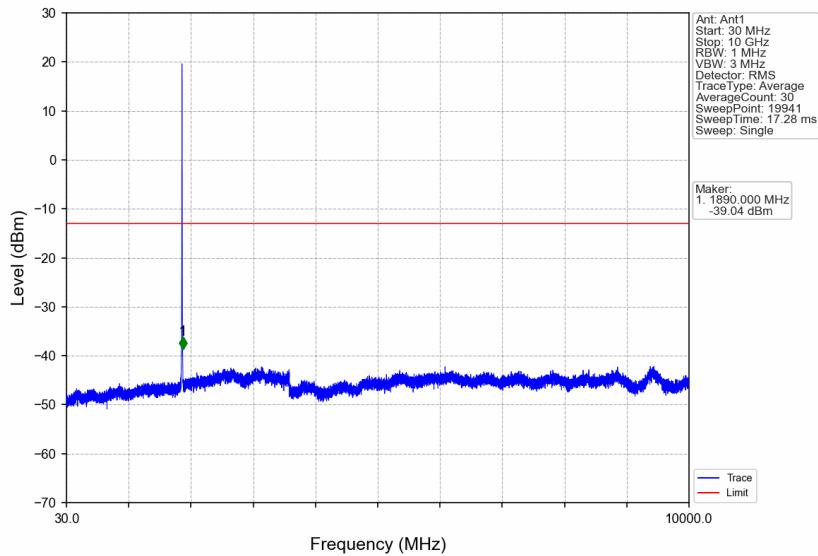
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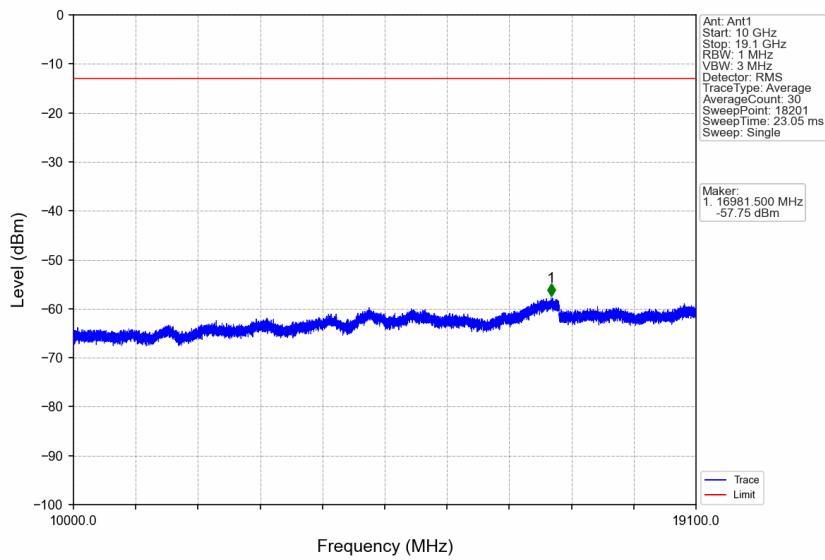
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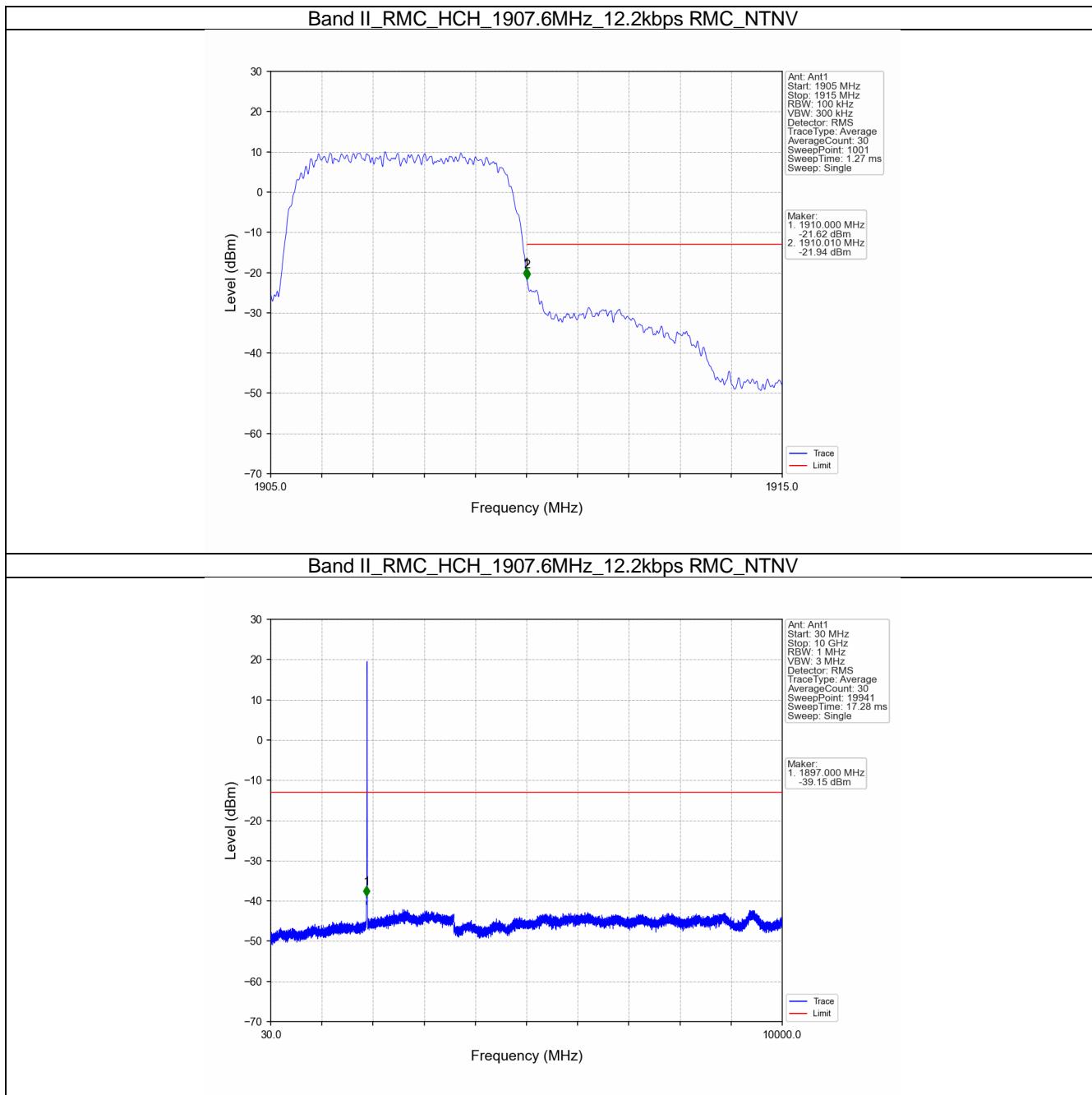
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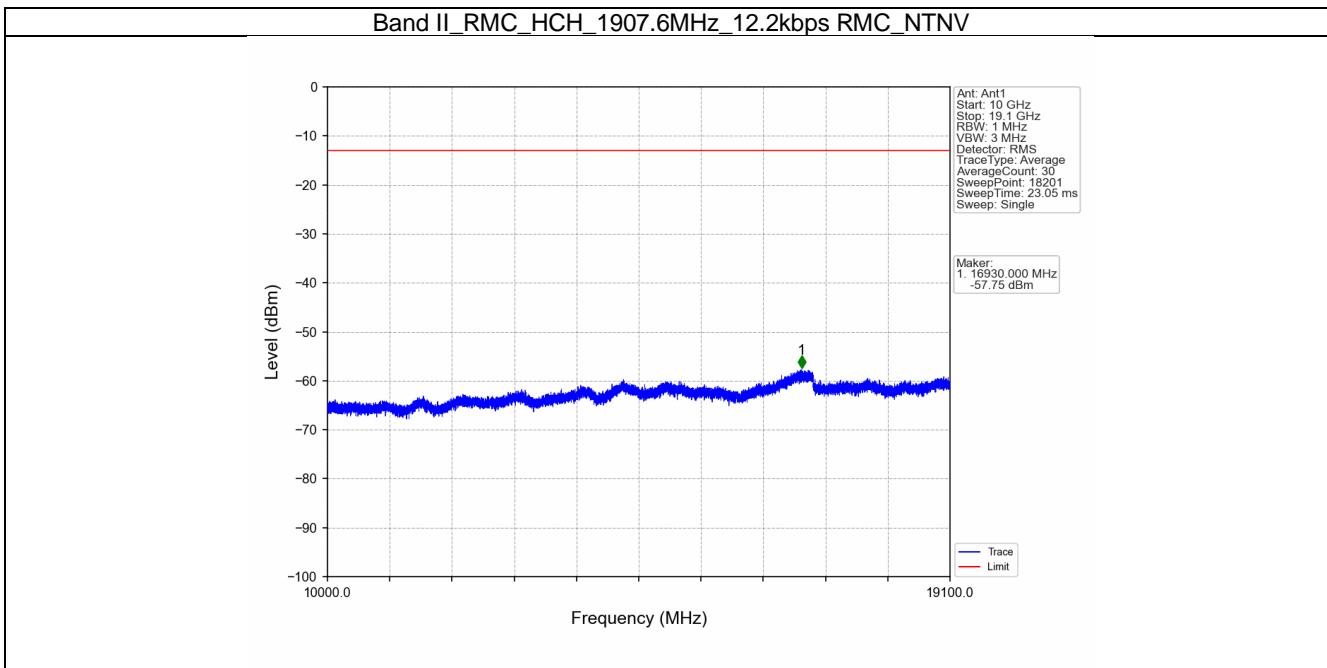
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