



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZCR240400116001

Rev.: 01

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Appendix B.3

WCDMA Band II



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Wireless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band II_EIRP

1.1.1 Test Result

Ant41

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	23.53	-2.21	21.32	<=33.01	Pass
			1880	23.57	-2.21	21.36	<=33.01	Pass
			1907.6	23.48	-2.21	21.27	<=33.01	Pass



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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	3.7	3.177	0.0017	/	Pass
			3.91	2.406	0.0013	/	Pass
			4.4	3.054	0.0016	/	Pass
		-30	3.91	3.070	0.0017	/	Pass
		-20	3.91	3.455	0.0019	/	Pass
		-10	3.91	3.255	0.0018	/	Pass
		0	3.91	3.283	0.0018	/	Pass
		10	3.91	3.358	0.0018	/	Pass
		30	3.91	3.387	0.0018	/	Pass
		40	3.91	3.038	0.0016	/	Pass
		50	3.91	3.195	0.0017	/	Pass
	1880	20	3.7	2.020	0.0011	/	Pass
			3.91	1.832	0.0010	/	Pass
			4.4	2.002	0.0011	/	Pass
		-30	3.91	2.191	0.0012	/	Pass
		-20	3.91	1.919	0.0010	/	Pass
		-10	3.91	1.982	0.0011	/	Pass
		0	3.91	2.372	0.0013	/	Pass
		10	3.91	2.243	0.0012	/	Pass
		30	3.91	2.325	0.0012	/	Pass
		40	3.91	1.992	0.0011	/	Pass
		50	3.91	2.122	0.0011	/	Pass
	1907.6	20	3.7	0.870	0.0005	/	Pass
			3.91	0.830	0.0004	/	Pass
			4.4	0.553	0.0003	/	Pass
		-30	3.91	0.454	0.0002	/	Pass
		-20	3.91	0.962	0.0005	/	Pass
		-10	3.91	0.430	0.0002	/	Pass
		0	3.91	0.664	0.0003	/	Pass
		10	3.91	0.199	0.0001	/	Pass
		30	3.91	0.456	0.0002	/	Pass
		40	3.91	1.100	0.0006	/	Pass
		50	3.91	0.532	0.0003	/	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	4.162	/	Pass
			1880	4.166	/	Pass
			1907.6	4.169	/	Pass



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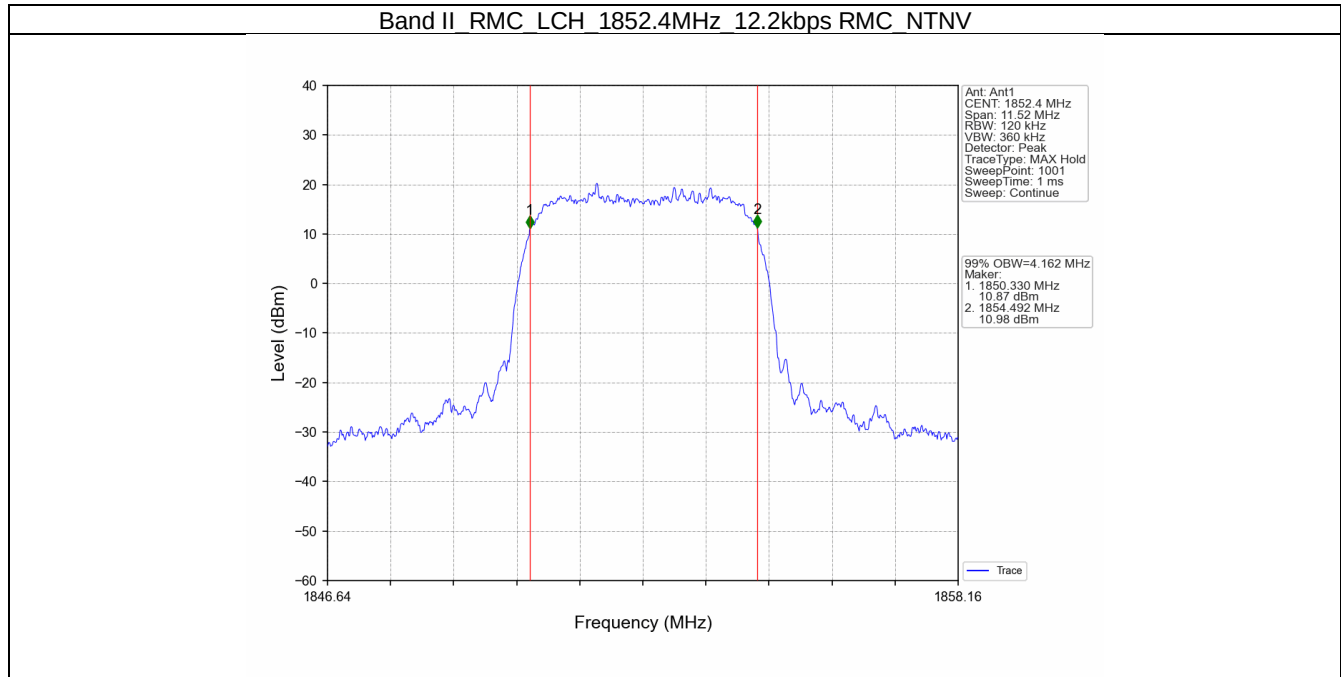
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3.1.2 Test Graph



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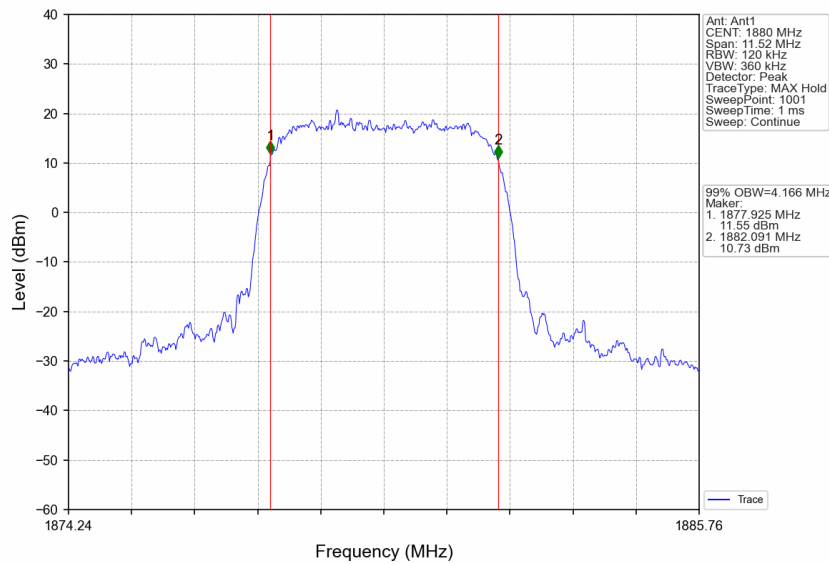
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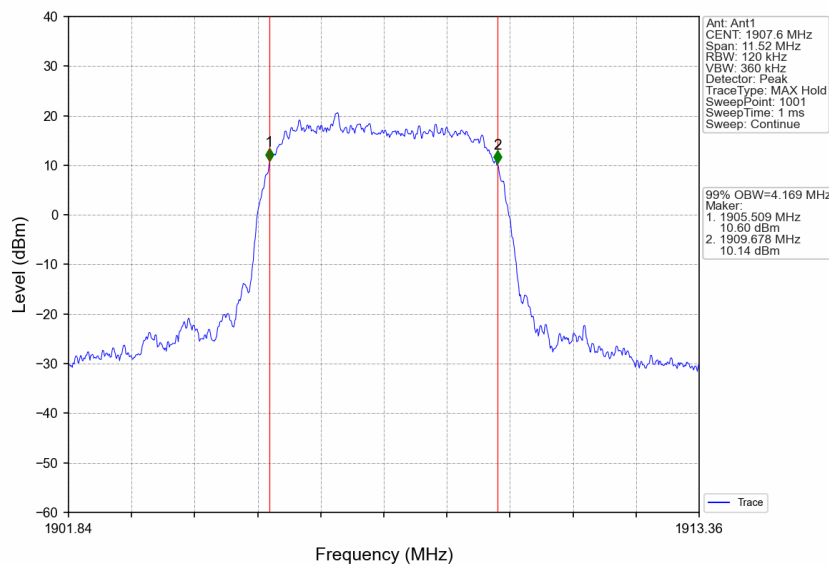
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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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	4.734	/	Pass
			1880	4.725	/	Pass
			1907.6	4.727	/	Pass



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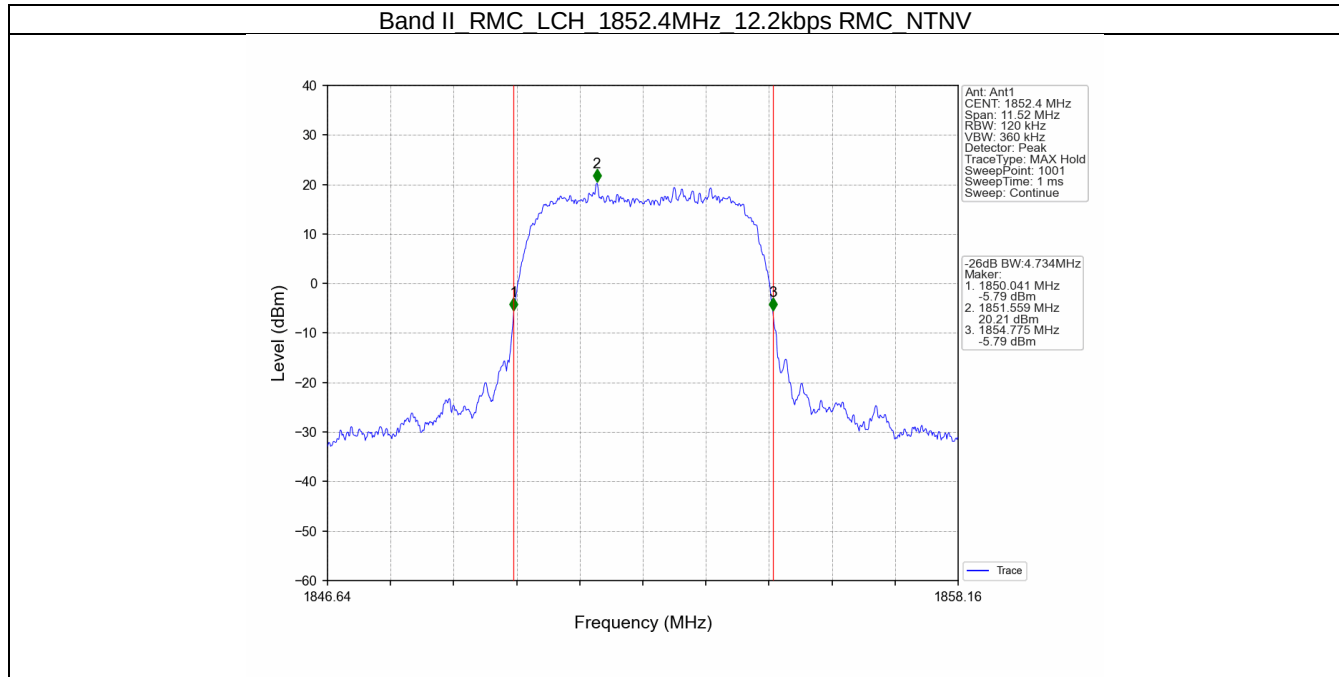
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3.2.2 Test Graph



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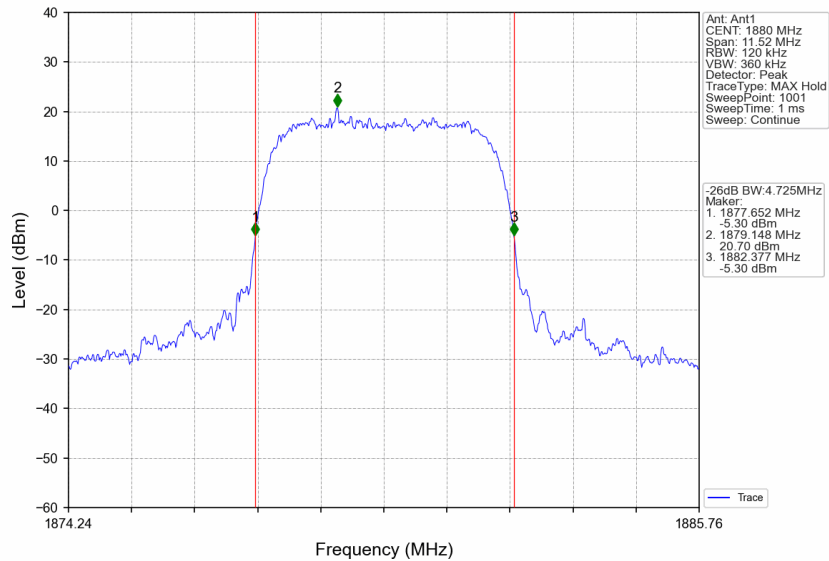
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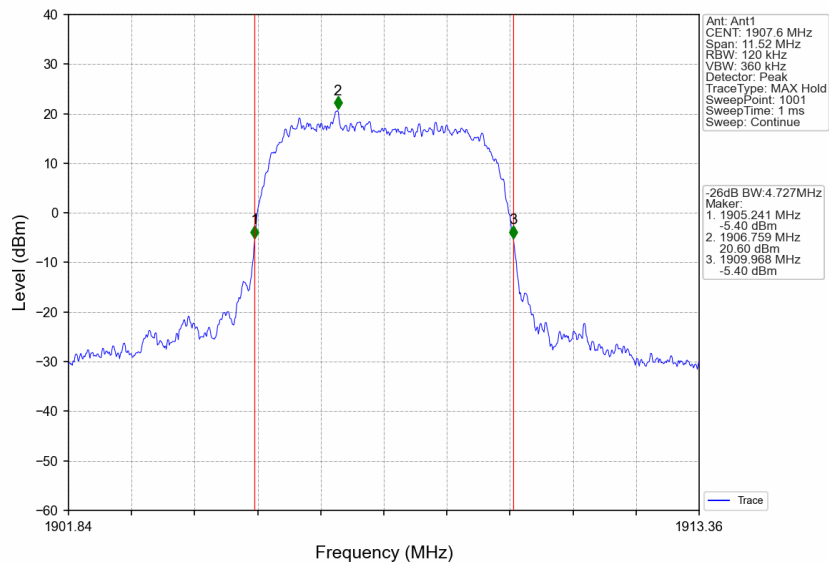
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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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	2.90	<=13	Pass
			1880	2.93	<=13	Pass
			1907.6	2.97	<=13	Pass



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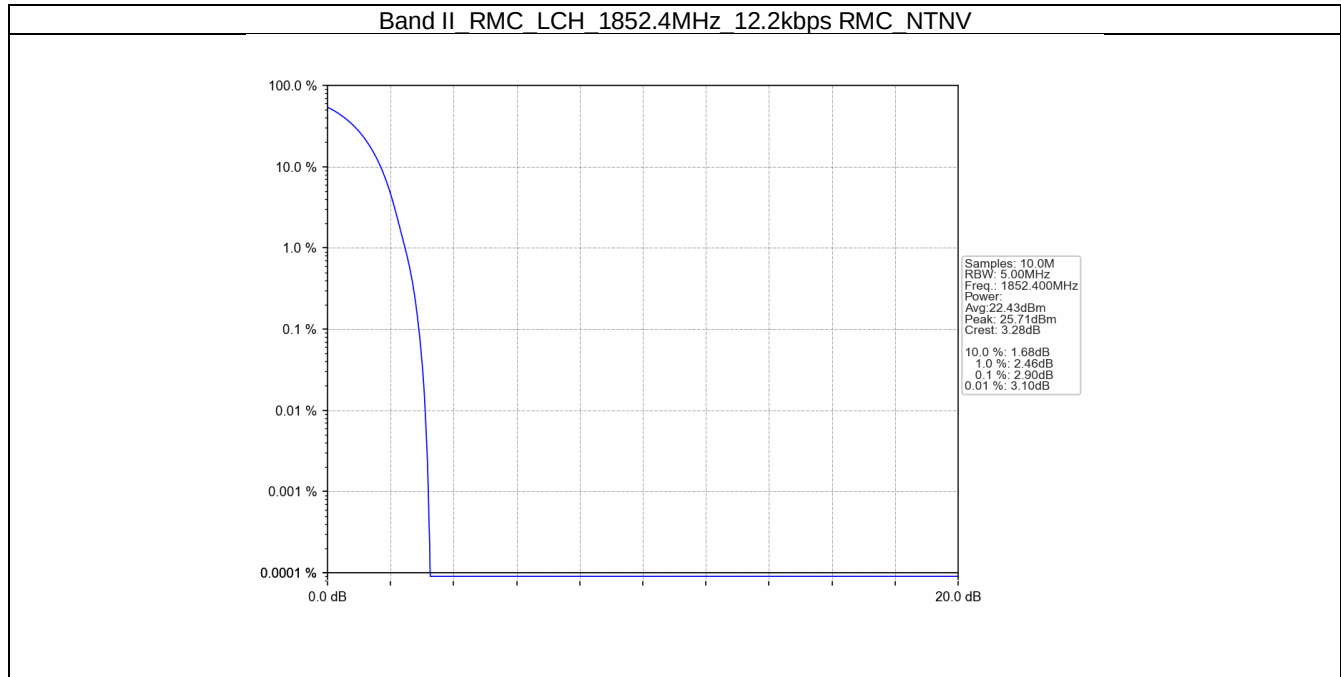
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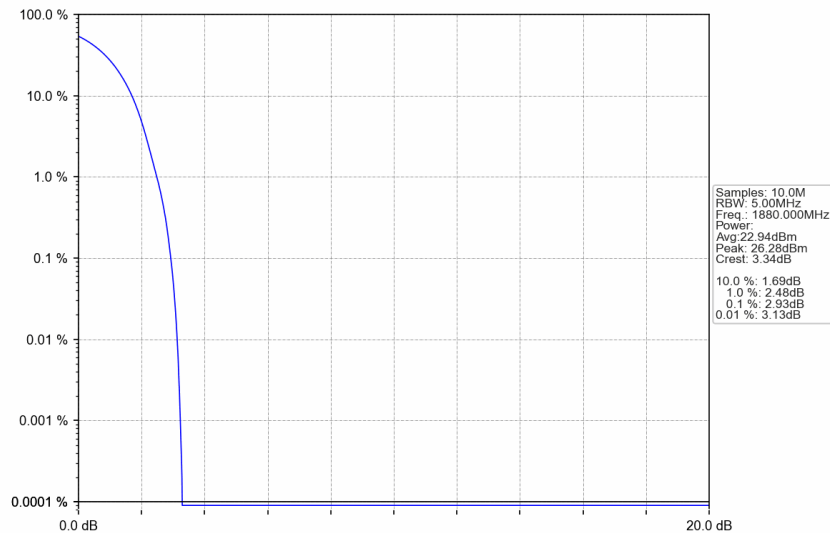
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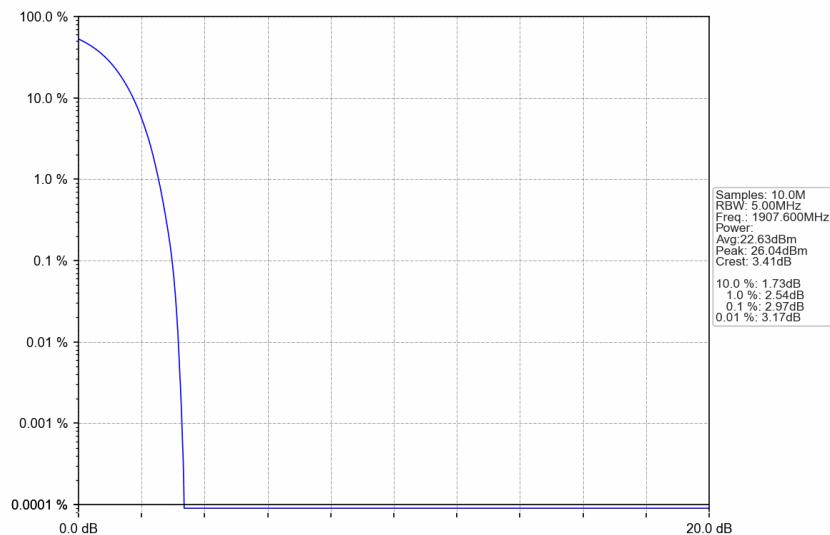
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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5. Spurious Emission & Band Edges

5.1 Band II

5.1.1 Test Result

Band:II						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1907.6	Refer To Test Graph		Pass



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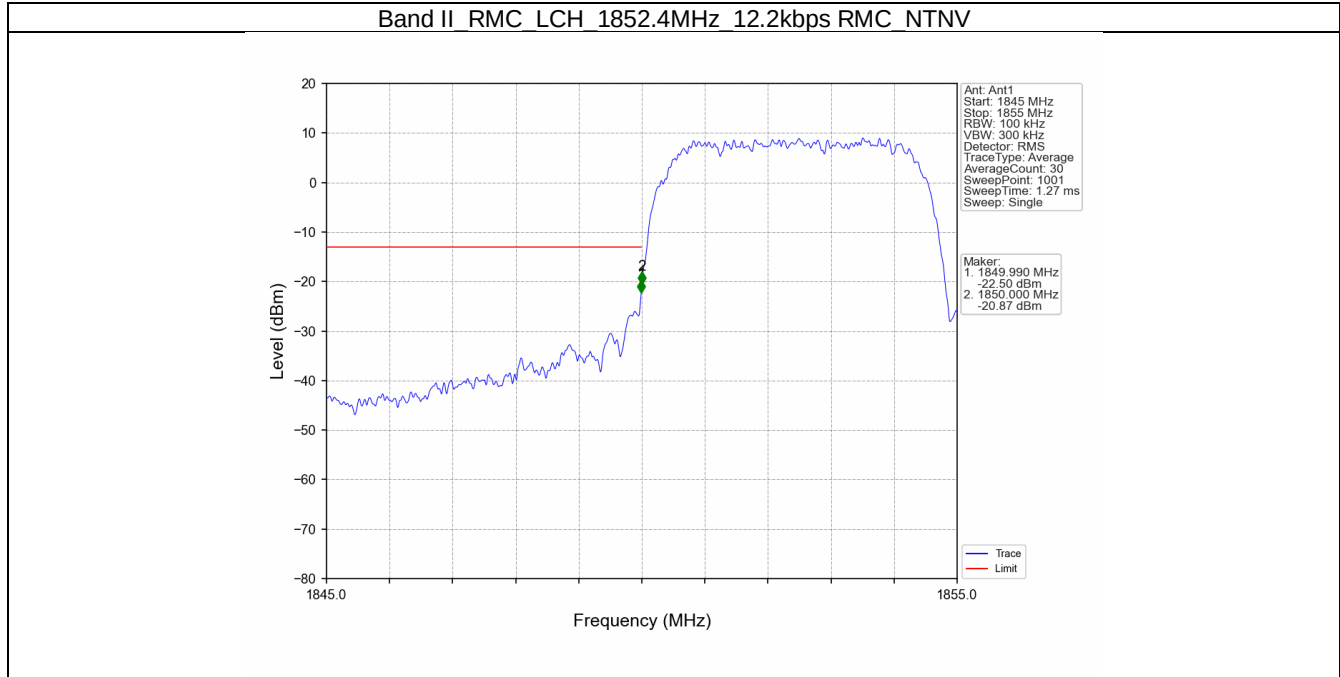
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5.1.2 Test Graph



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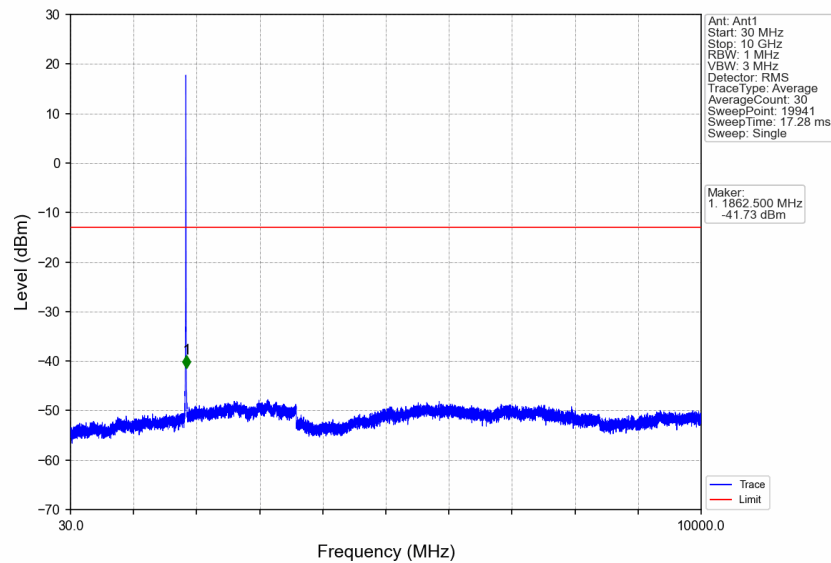
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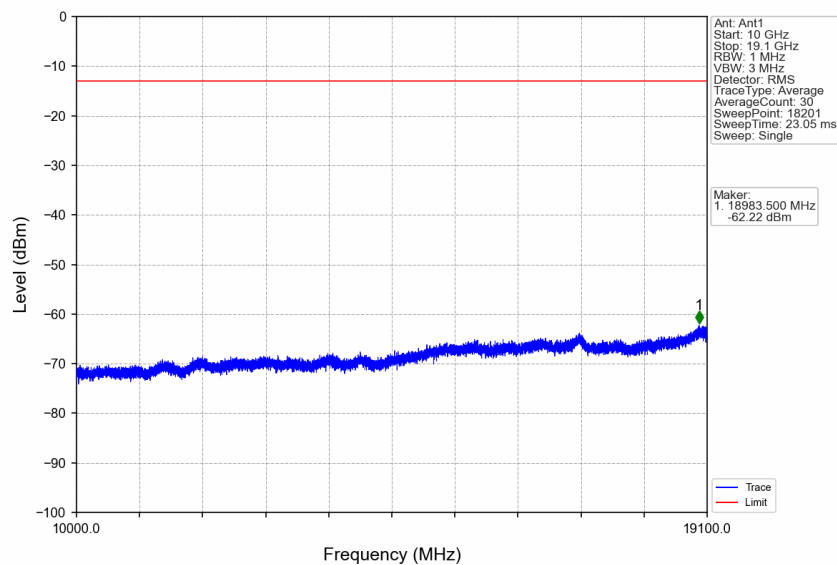
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Band II_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



Band II_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



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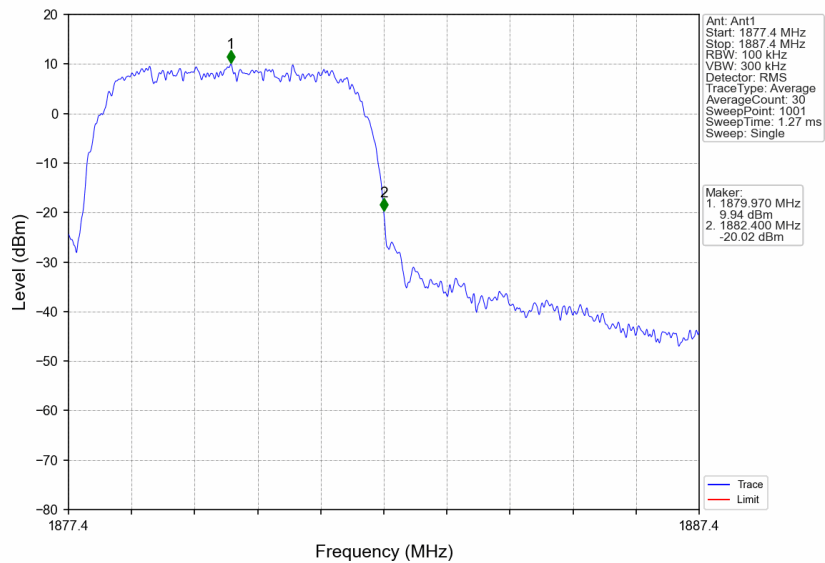
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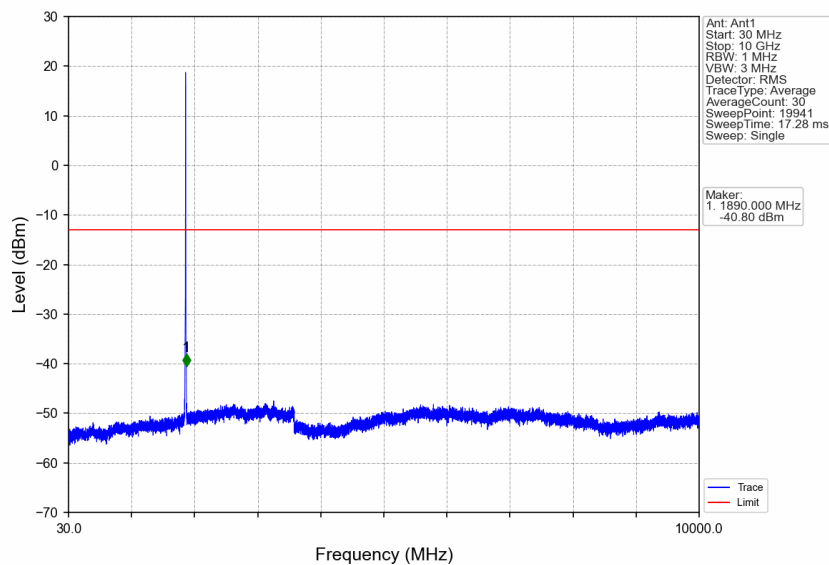
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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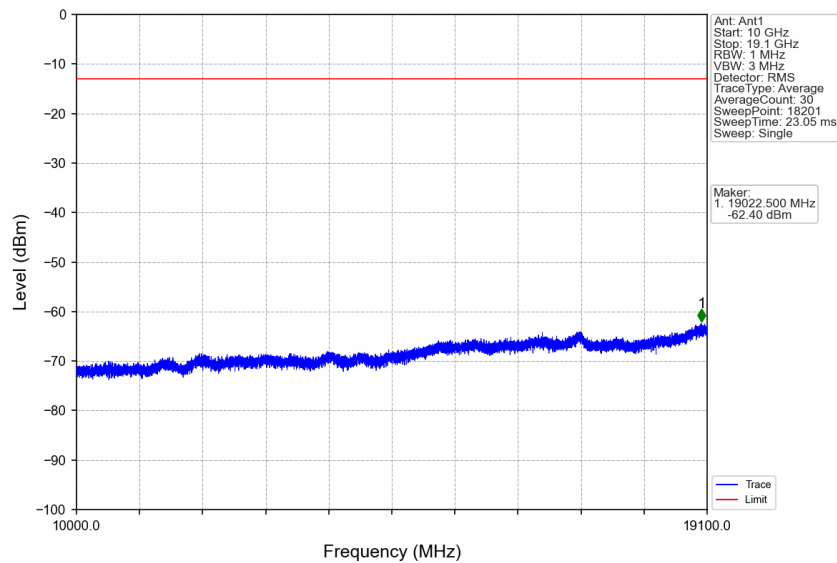
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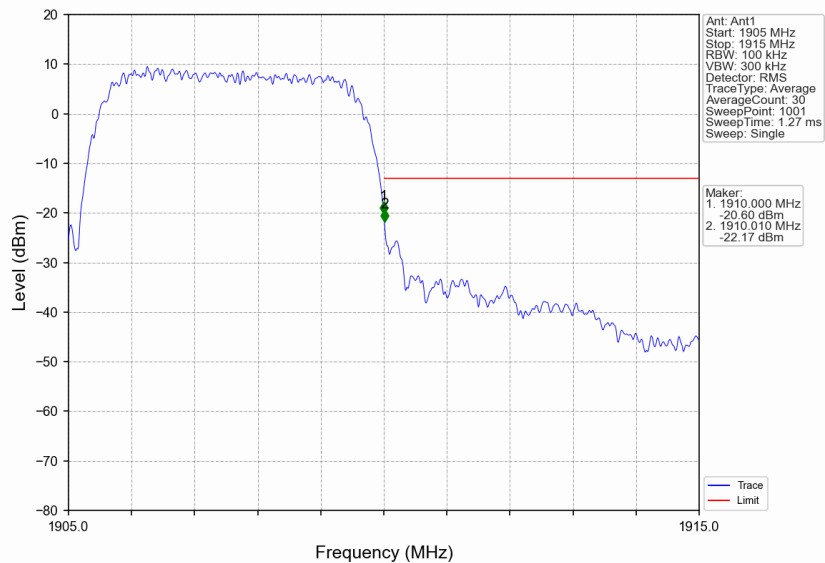
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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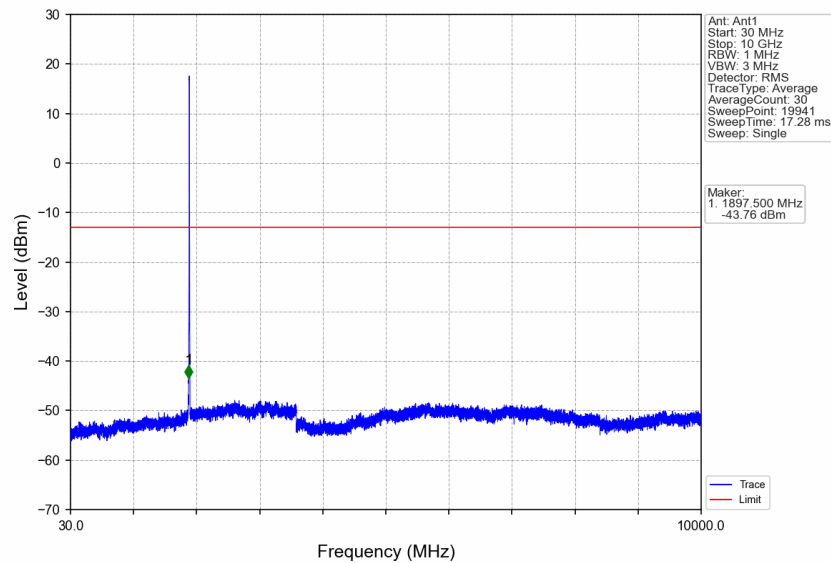
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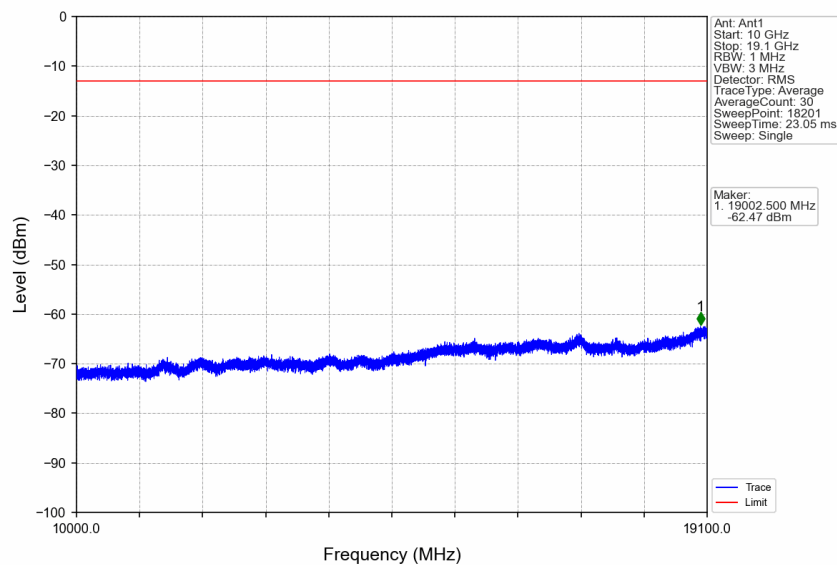
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Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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6. Field Strength of Spurious Radiation

Test Band = BII ANT13_ TM1

Test Channel = low

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	44.67	29.03	-47.47	-69.03	-13.00	56.03	Horizontal
2	5557.2000	44.14	32.58	-47.04	-65.58	-13.00	52.58	Horizontal
3	7409.6000	42.72	36.29	-45.07	-61.32	-13.00	48.32	Horizontal
4	9262.0000	40.30	36.70	-42.42	-60.68	-13.00	47.68	Horizontal
5	11114.400	37.48	39.62	-39.32	-57.48	-13.00	44.48	Horizontal
6	12966.800	36.68	39.70	-38.63	-57.51	-13.00	44.51	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	44.61	29.03	-47.47	-69.09	-13.00	56.09	Vertical
2	5557.2000	44.69	32.58	-47.04	-65.03	-13.00	52.03	Vertical
3	7409.6000	43.12	36.29	-45.07	-60.92	-13.00	47.92	Vertical
4	9262.0000	40.17	36.70	-42.42	-60.81	-13.00	47.81	Vertical
5	11114.400	37.78	39.62	-39.32	-57.18	-13.00	44.18	Vertical
6	12966.800	36.49	39.70	-38.63	-57.70	-13.00	44.70	Vertical



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Test Band = BII ANT13_ TM1
Test Channel = mid

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	44.39	29.12	-47.32	-69.07	-13.00	56.07	Horizontal
2	5640.0000	43.77	32.54	-46.87	-65.82	-13.00	52.82	Horizontal
3	7520.0000	43.05	36.39	-45.00	-60.82	-13.00	47.82	Horizontal
4	9400.0000	39.72	37.02	-41.56	-60.08	-13.00	47.08	Horizontal
5	11280.000	37.60	39.66	-39.28	-57.28	-13.00	44.28	Horizontal
6	13160.000	36.47	39.99	-38.47	-57.27	-13.00	44.27	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	44.38	29.12	-47.32	-69.08	-13.00	56.08	Vertical
2	5640.0000	44.03	32.54	-46.87	-65.56	-13.00	52.56	Vertical
3	7520.0000	42.78	36.39	-45.00	-61.09	-13.00	48.09	Vertical
4	9400.0000	40.03	37.02	-41.56	-59.77	-13.00	46.77	Vertical
5	11280.000	37.28	39.66	-39.28	-57.60	-13.00	44.60	Vertical
6	13160.000	36.40	39.99	-38.47	-57.34	-13.00	44.34	Vertical



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Test Band = BII ANT13_ TM1
Test Channel = high

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	43.94	29.20	-47.19	-69.31	-13.00	56.31	Horizontal
2	5722.8000	43.40	32.51	-46.78	-66.13	-13.00	53.13	Horizontal
3	7630.4000	42.86	36.35	-44.44	-60.49	-13.00	47.49	Horizontal
4	9538.0000	39.37	37.34	-41.98	-60.53	-13.00	47.53	Horizontal
5	11445.600	37.20	39.69	-38.84	-57.21	-13.00	44.21	Horizontal
6	13353.200	36.36	40.34	-38.61	-57.17	-13.00	44.17	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	44.25	29.20	-47.19	-69.00	-13.00	56.00	Vertical
2	5722.8000	43.56	32.51	-46.78	-65.97	-13.00	52.97	Vertical
3	7630.4000	42.52	36.35	-44.44	-60.83	-13.00	47.83	Vertical
4	9538.0000	39.12	37.34	-41.98	-60.78	-13.00	47.78	Vertical
5	11445.600	36.85	39.69	-38.84	-57.56	-13.00	44.56	Vertical
6	13353.200	36.17	40.34	-38.61	-57.36	-13.00	44.36	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.

---End of Attachment---



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