

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band II_EIRP

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	23.37	-2.00	21.37	<=33.01	Pass
			1880	23.63	-2.00	21.63	<=33.01	Pass
			1907.6	23.58	-2.00	21.58	<=33.01	Pass
	HSDPA	Subtest 1	1852.4	21.63	-2.00	19.63	<=33.01	Pass
		Subtest 2	1852.4	21.59	-2.00	19.59	<=33.01	Pass
		Subtest 3	1852.4	21.61	-2.00	19.61	<=33.01	Pass
		Subtest 4	1852.4	21.64	-2.00	19.64	<=33.01	Pass
		Subtest 1	1880	21.89	-2.00	19.89	<=33.01	Pass
		Subtest 2	1880	21.89	-2.00	19.89	<=33.01	Pass
		Subtest 3	1880	21.86	-2.00	19.86	<=33.01	Pass
		Subtest 4	1880	21.90	-2.00	19.90	<=33.01	Pass
		Subtest 1	1907.6	21.90	-2.00	19.90	<=33.01	Pass
		Subtest 2	1907.6	21.86	-2.00	19.86	<=33.01	Pass
		Subtest 3	1907.6	21.81	-2.00	19.81	<=33.01	Pass
		Subtest 4	1907.6	21.85	-2.00	19.85	<=33.01	Pass
	HSUPA	Subtest 1	1852.4	19.33	-2.00	17.33	<=33.01	Pass
		Subtest 2	1852.4	20.73	-2.00	18.73	<=33.01	Pass
		Subtest 3	1852.4	20.76	-2.00	18.76	<=33.01	Pass
		Subtest 4	1852.4	20.59	-2.00	18.59	<=33.01	Pass
		Subtest 5	1852.4	20.53	-2.00	18.53	<=33.01	Pass
		Subtest 1	1880	20.97	-2.00	18.97	<=33.01	Pass
		Subtest 2	1880	21.00	-2.00	19.00	<=33.01	Pass
		Subtest 3	1880	20.78	-2.00	18.78	<=33.01	Pass
		Subtest 4	1880	20.82	-2.00	18.82	<=33.01	Pass
		Subtest 5	1880	20.81	-2.00	18.81	<=33.01	Pass
		Subtest 1	1907.6	19.56	-2.00	17.56	<=33.01	Pass
		Subtest 2	1907.6	19.51	-2.00	17.51	<=33.01	Pass
		Subtest 3	1907.6	20.97	-2.00	18.97	<=33.01	Pass
		Subtest 4	1907.6	19.80	-2.00	17.80	<=33.01	Pass
		Subtest 5	1907.6	20.75	-2.00	18.75	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 Band II

Band: II							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.6	5.855	0.0032	-2.5 to 2.5	Pass
			3.91	5.999	0.0032	-2.5 to 2.5	Pass
			4.3	5.819	0.0031	-2.5 to 2.5	Pass
		-30	3.91	5.359	0.0029	-2.5 to 2.5	Pass
		-20	3.91	4.888	0.0026	-2.5 to 2.5	Pass
		-10	3.91	5.215	0.0028	-2.5 to 2.5	Pass
		0	3.91	5.408	0.0029	-2.5 to 2.5	Pass
		10	3.91	5.074	0.0027	-2.5 to 2.5	Pass
		30	3.91	4.852	0.0026	-2.5 to 2.5	Pass
		40	3.91	5.254	0.0028	-2.5 to 2.5	Pass
		50	3.91	5.009	0.0027	-2.5 to 2.5	Pass
	1880	20	3.6	1.387	0.0007	-2.5 to 2.5	Pass
			3.91	1.803	0.0010	-2.5 to 2.5	Pass
			4.3	1.859	0.0010	-2.5 to 2.5	Pass
		-30	3.91	1.954	0.0010	-2.5 to 2.5	Pass
		-20	3.91	1.682	0.0009	-2.5 to 2.5	Pass
		-10	3.91	1.876	0.0010	-2.5 to 2.5	Pass
		0	3.91	1.550	0.0008	-2.5 to 2.5	Pass
		10	3.91	1.706	0.0009	-2.5 to 2.5	Pass
		30	3.91	1.627	0.0009	-2.5 to 2.5	Pass
		40	3.91	1.729	0.0009	-2.5 to 2.5	Pass
		50	3.91	1.954	0.0010	-2.5 to 2.5	Pass
	1907.6	20	3.6	-2.086	-0.0011	-2.5 to 2.5	Pass
			3.91	-2.017	-0.0011	-2.5 to 2.5	Pass
			4.3	-1.603	-0.0008	-2.5 to 2.5	Pass
		-30	3.91	-2.157	-0.0011	-2.5 to 2.5	Pass
		-20	3.91	-2.456	-0.0013	-2.5 to 2.5	Pass
		-10	3.91	-2.046	-0.0011	-2.5 to 2.5	Pass
		0	3.91	-2.447	-0.0013	-2.5 to 2.5	Pass
		10	3.91	-1.974	-0.0010	-2.5 to 2.5	Pass
		30	3.91	-2.260	-0.0012	-2.5 to 2.5	Pass
		40	3.91	-2.658	-0.0014	-2.5 to 2.5	Pass
		50	3.91	-2.599	-0.0014	-2.5 to 2.5	Pass
HSDPA	1852.4	20	3.6	7.246	0.0039	-2.5 to 2.5	Pass
			3.91	7.305	0.0039	-2.5 to 2.5	Pass
			4.3	7.170	0.0039	-2.5 to 2.5	Pass
		-30	3.91	7.640	0.0041	-2.5 to 2.5	Pass
		-20	3.91	7.589	0.0041	-2.5 to 2.5	Pass
		-10	3.91	7.316	0.0039	-2.5 to 2.5	Pass
		0	3.91	7.511	0.0041	-2.5 to 2.5	Pass
		10	3.91	7.690	0.0042	-2.5 to 2.5	Pass
		30	3.91	7.191	0.0039	-2.5 to 2.5	Pass
		40	3.91	7.599	0.0041	-2.5 to 2.5	Pass
		50	3.91	6.738	0.0036	-2.5 to 2.5	Pass
	1880	20	3.6	3.015	0.0016	-2.5 to 2.5	Pass
			3.91	3.258	0.0017	-2.5 to 2.5	Pass
			4.3	2.640	0.0014	-2.5 to 2.5	Pass

		-30	3.91	2.839	0.0015	-2.5 to 2.5	Pass
		-20	3.91	3.015	0.0016	-2.5 to 2.5	Pass
		-10	3.91	3.613	0.0019	-2.5 to 2.5	Pass
		0	3.91	4.041	0.0021	-2.5 to 2.5	Pass
		10	3.91	3.673	0.0020	-2.5 to 2.5	Pass
		30	3.91	3.615	0.0019	-2.5 to 2.5	Pass
		40	3.91	3.936	0.0021	-2.5 to 2.5	Pass
		50	3.91	3.689	0.0020	-2.5 to 2.5	Pass
	1907.6	20	3.6	-3.281	-0.0017	-2.5 to 2.5	Pass
			3.91	-3.383	-0.0018	-2.5 to 2.5	Pass
			4.3	-3.192	-0.0017	-2.5 to 2.5	Pass
		-30	3.91	-3.636	-0.0019	-2.5 to 2.5	Pass
		-20	3.91	-3.181	-0.0017	-2.5 to 2.5	Pass
		-10	3.91	-3.499	-0.0018	-2.5 to 2.5	Pass
		0	3.91	-2.954	-0.0015	-2.5 to 2.5	Pass
		10	3.91	-2.897	-0.0015	-2.5 to 2.5	Pass
		30	3.91	-2.784	-0.0015	-2.5 to 2.5	Pass
		40	3.91	-3.038	-0.0016	-2.5 to 2.5	Pass
		50	3.91	-2.924	-0.0015	-2.5 to 2.5	Pass
HSUPA	1852.4	20	3.6	1.686	0.0009	-2.5 to 2.5	Pass
			3.91	2.576	0.0014	-2.5 to 2.5	Pass
			4.3	0.729	0.0004	-2.5 to 2.5	Pass
		-30	3.91	2.911	0.0016	-2.5 to 2.5	Pass
		-20	3.91	-3.943	-0.0021	-2.5 to 2.5	Pass
		-10	3.91	1.868	0.0010	-2.5 to 2.5	Pass
		0	3.91	3.042	0.0016	-2.5 to 2.5	Pass
		10	3.91	5.214	0.0028	-2.5 to 2.5	Pass
		30	3.91	0.816	0.0004	-2.5 to 2.5	Pass
		40	3.91	3.554	0.0019	-2.5 to 2.5	Pass
		50	3.91	3.750	0.0020	-2.5 to 2.5	Pass
	1880	20	3.6	0.554	0.0003	-2.5 to 2.5	Pass
			3.91	-3.277	-0.0017	-2.5 to 2.5	Pass
			4.3	-4.899	-0.0026	-2.5 to 2.5	Pass
		-30	3.91	-3.268	-0.0017	-2.5 to 2.5	Pass
		-20	3.91	-2.939	-0.0016	-2.5 to 2.5	Pass
		-10	3.91	-1.771	-0.0009	-2.5 to 2.5	Pass
		0	3.91	-2.122	-0.0011	-2.5 to 2.5	Pass
		10	3.91	-1.624	-0.0009	-2.5 to 2.5	Pass
		30	3.91	-0.918	-0.0005	-2.5 to 2.5	Pass
		40	3.91	-4.956	-0.0026	-2.5 to 2.5	Pass
		50	3.91	1.706	0.0009	-2.5 to 2.5	Pass
	1907.6	20	3.6	-7.456	-0.0039	-2.5 to 2.5	Pass
			3.91	-6.767	-0.0035	-2.5 to 2.5	Pass
			4.3	-7.110	-0.0037	-2.5 to 2.5	Pass
		-30	3.91	-2.419	-0.0013	-2.5 to 2.5	Pass
		-20	3.91	-4.541	-0.0024	-2.5 to 2.5	Pass
		-10	3.91	-5.038	-0.0026	-2.5 to 2.5	Pass
		0	3.91	-3.603	-0.0019	-2.5 to 2.5	Pass
		10	3.91	-5.480	-0.0029	-2.5 to 2.5	Pass
		30	3.91	-5.945	-0.0031	-2.5 to 2.5	Pass
		40	3.91	-5.339	-0.0028	-2.5 to 2.5	Pass
		50	3.91	-4.410	-0.0023	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band II_OBW

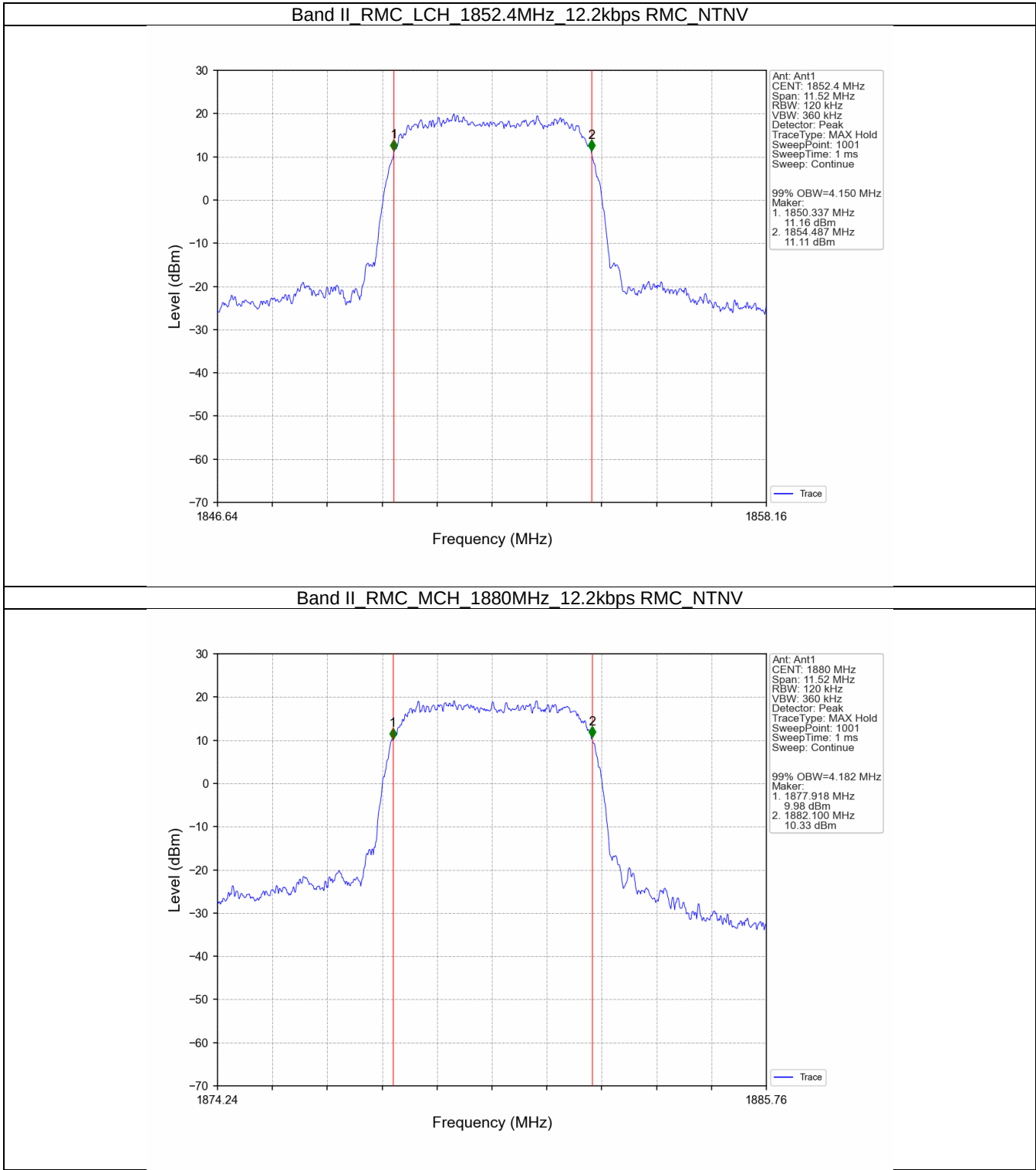
Band: II						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.150	/	Pass
			1880	4.182	/	Pass
			1907.6	4.167	/	Pass
	HSDPA	Subtest 1	1852.4	4.164	/	Pass
			1880	4.154	/	Pass
			1907.6	4.155	/	Pass
	HSUPA	Subtest 1	1852.4	4.157	/	Pass
			1880	4.146	/	Pass
			1907.6	4.162	/	Pass

3.1.2 Band II_XDB

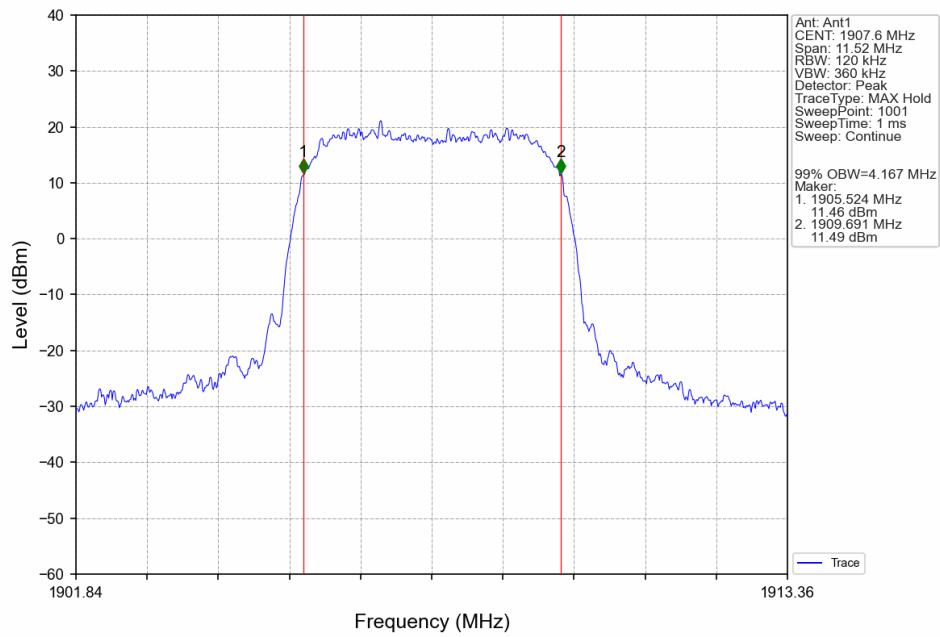
Band: II						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.758	/	Pass
			1880	4.778	/	Pass
			1907.6	4.729	/	Pass
	HSDPA	Subtest 1	1852.4	4.757	/	Pass
			1880	4.763	/	Pass
			1907.6	4.751	/	Pass
	HSUPA	Subtest 1	1852.4	4.763	/	Pass
			1880	4.758	/	Pass
			1907.6	4.755	/	Pass

3.2 Test Graph

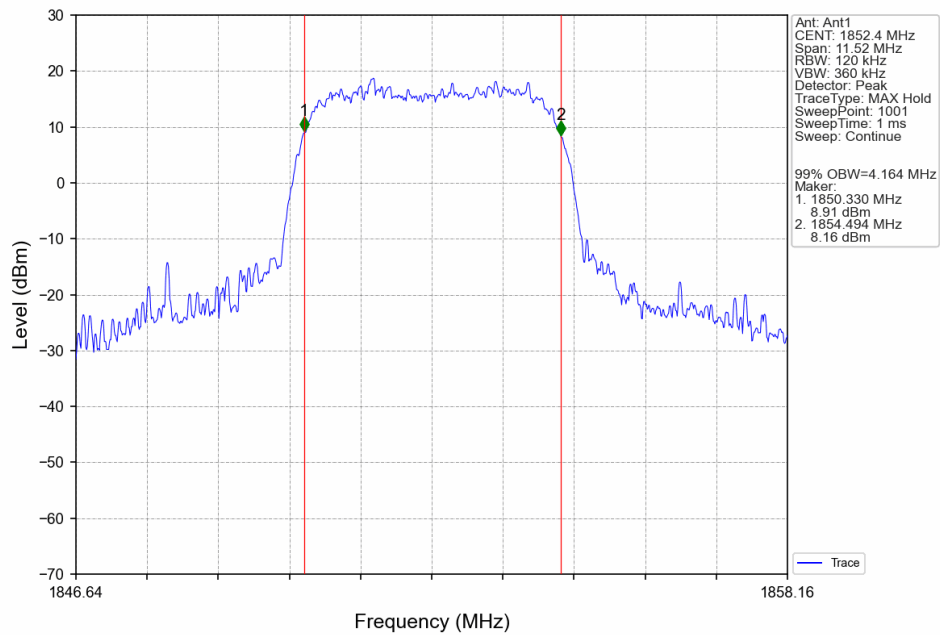
3.2.1 Band II_OBW



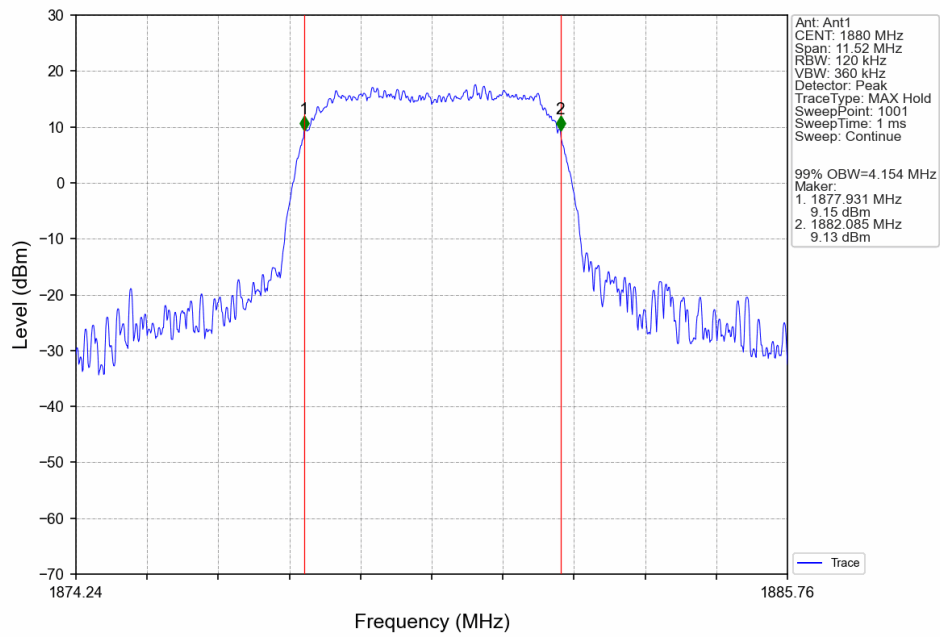
Band II RMC HCH 1907.6MHz 12.2kbps RMC NTN



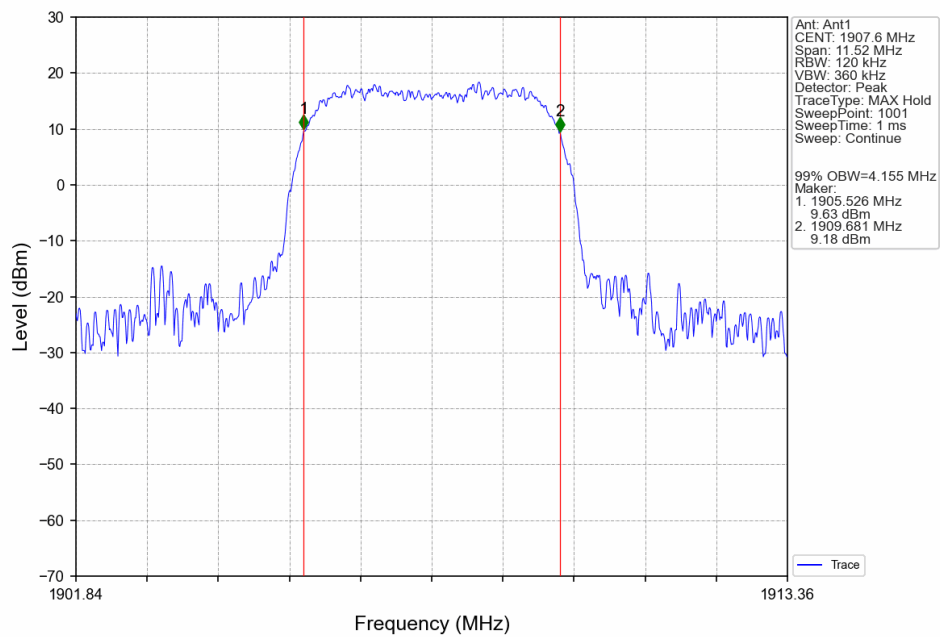
Band II HSDPA LCH 1852.4MHz Subtest 1 NTN



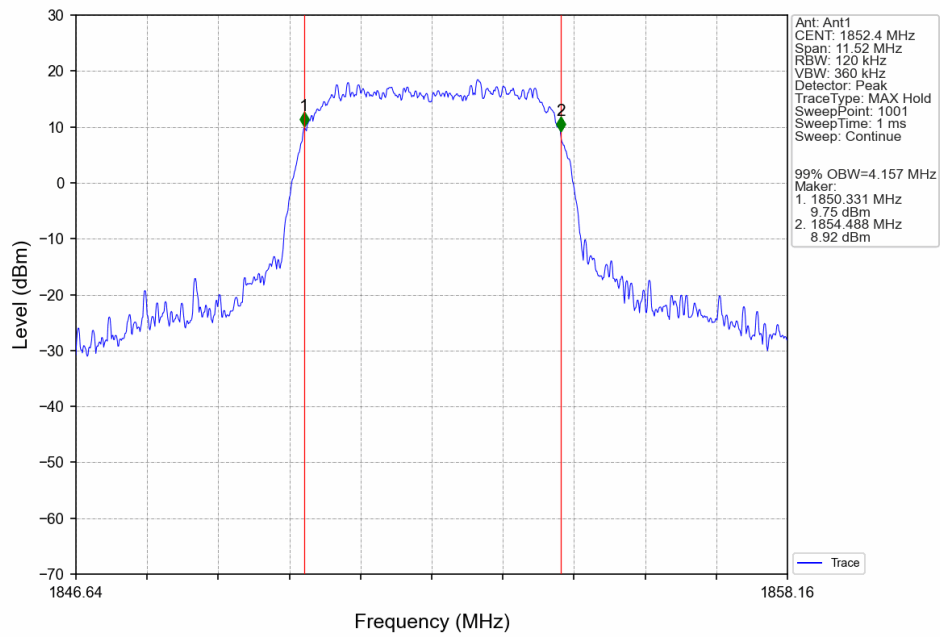
Band II HSDPA MCH 1880MHz Subtest 1 NTN



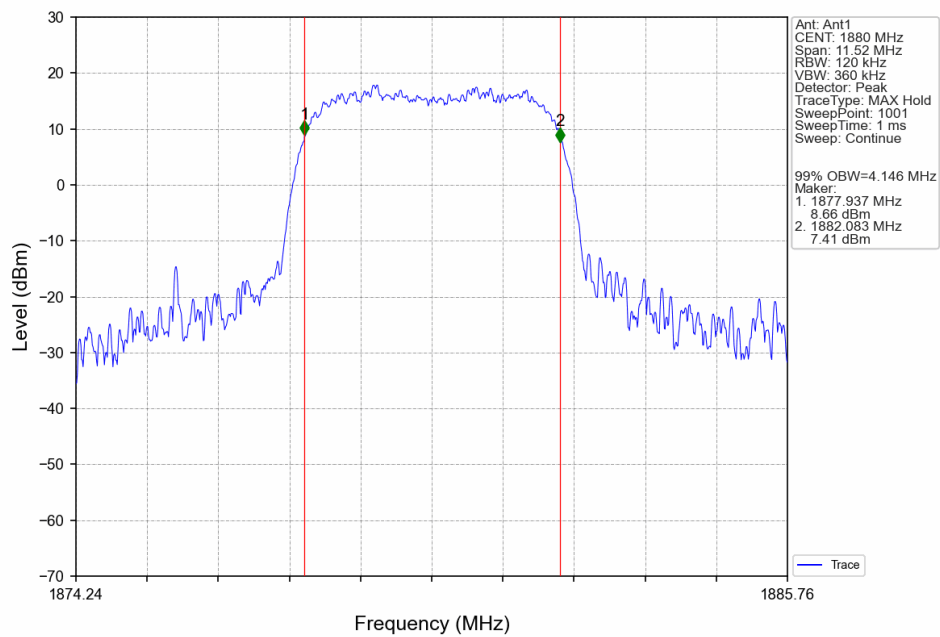
Band II HSDPA HCH 1907.6MHz Subtest 1 NTN



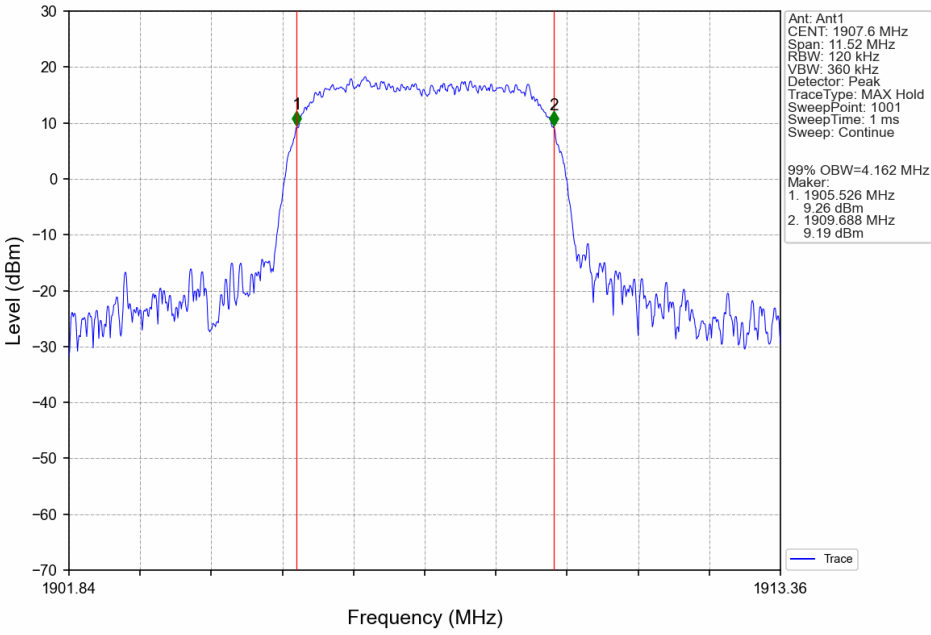
Band II HSUPA LCH 1852.4MHz Subtest 1 NTNV



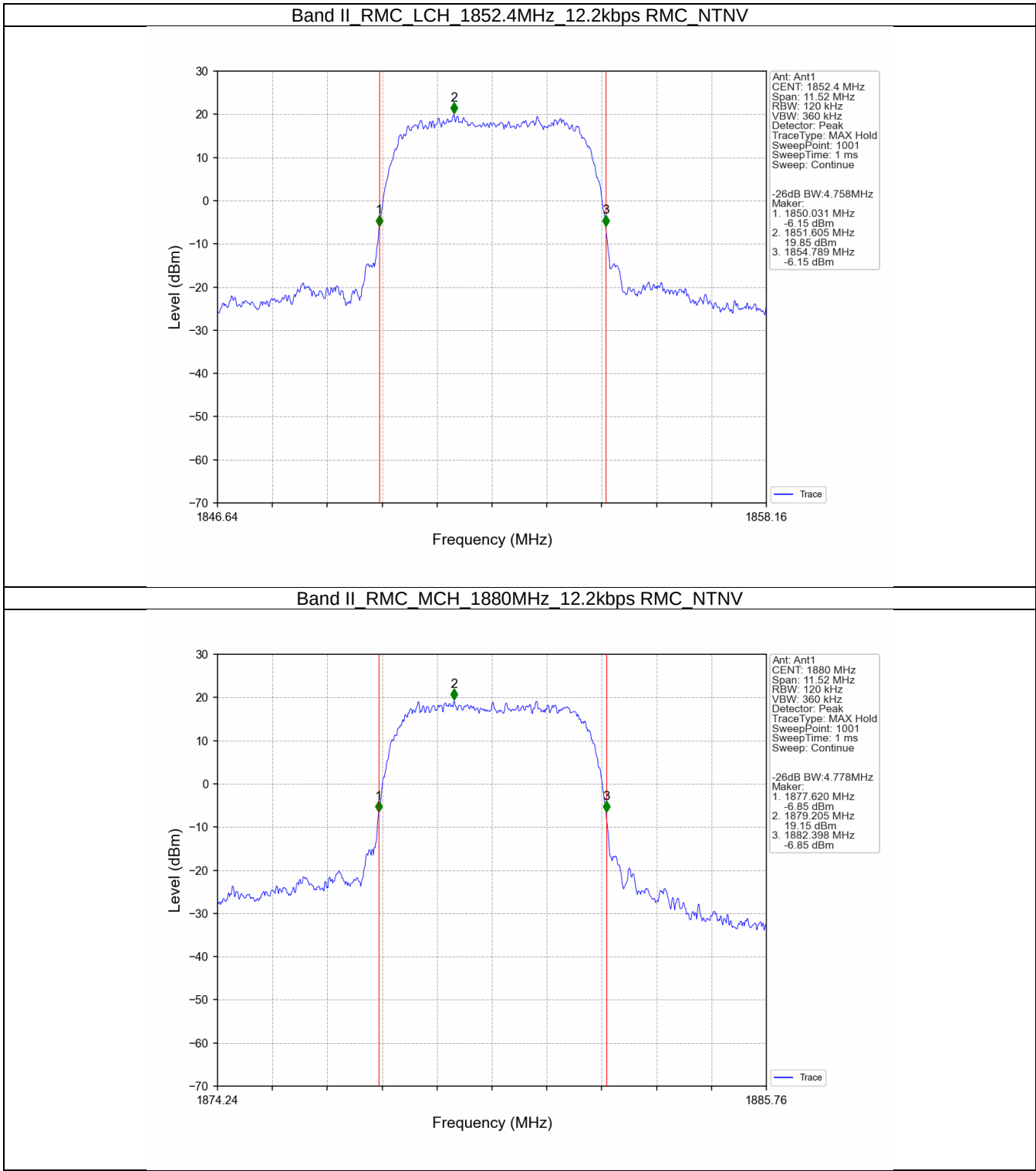
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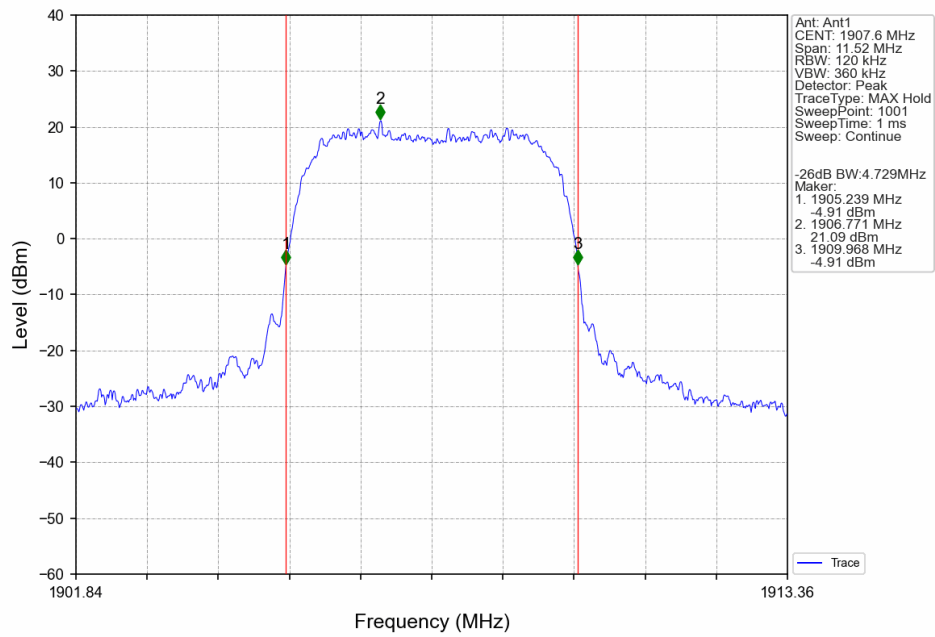
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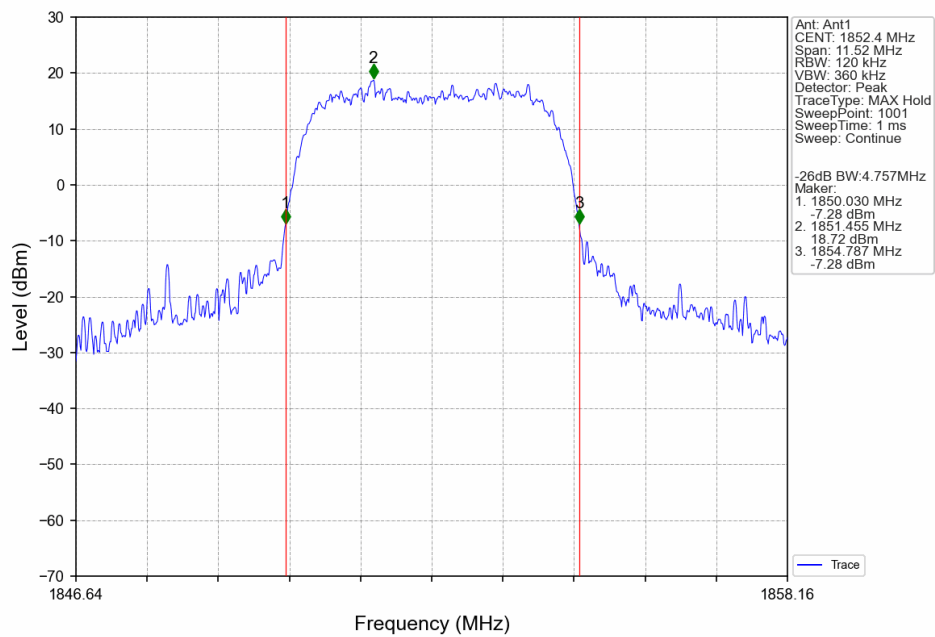
3.2.2 Band II_XDB



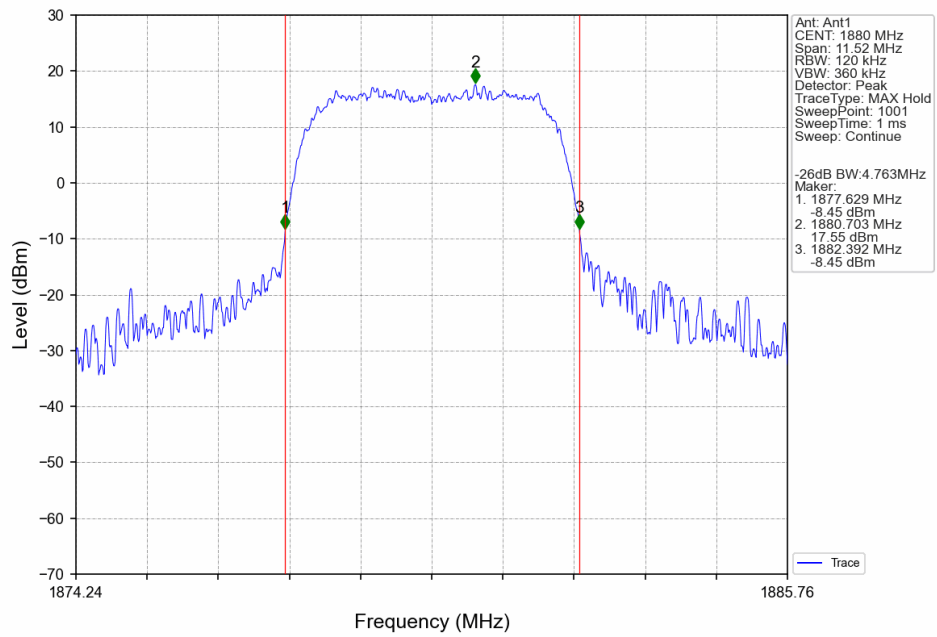
Band II RMC HCH 1907.6MHz 12.2kbps RMC NTN



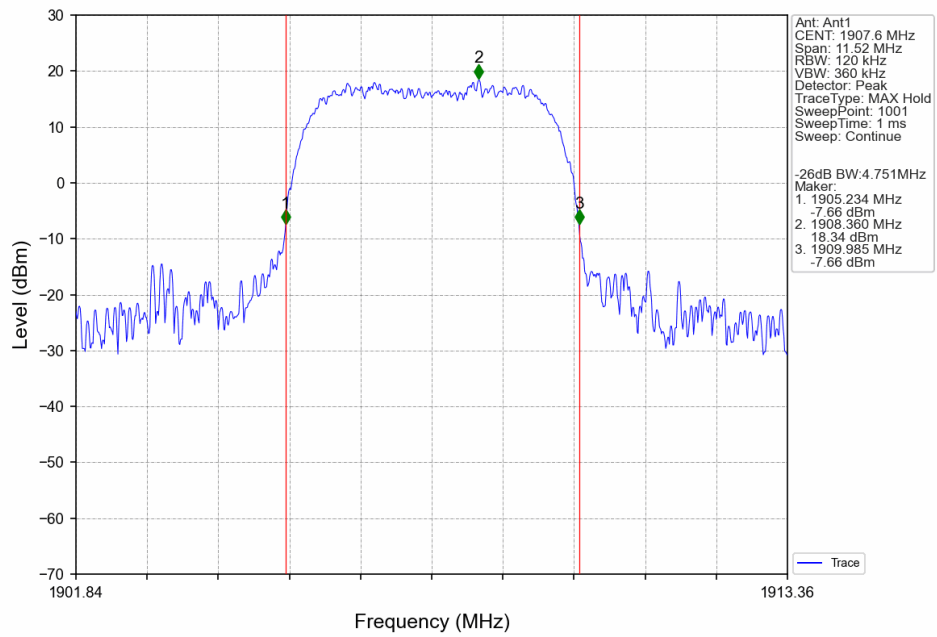
Band II HSDPA LCH 1852.4MHz Subtest 1 NTN



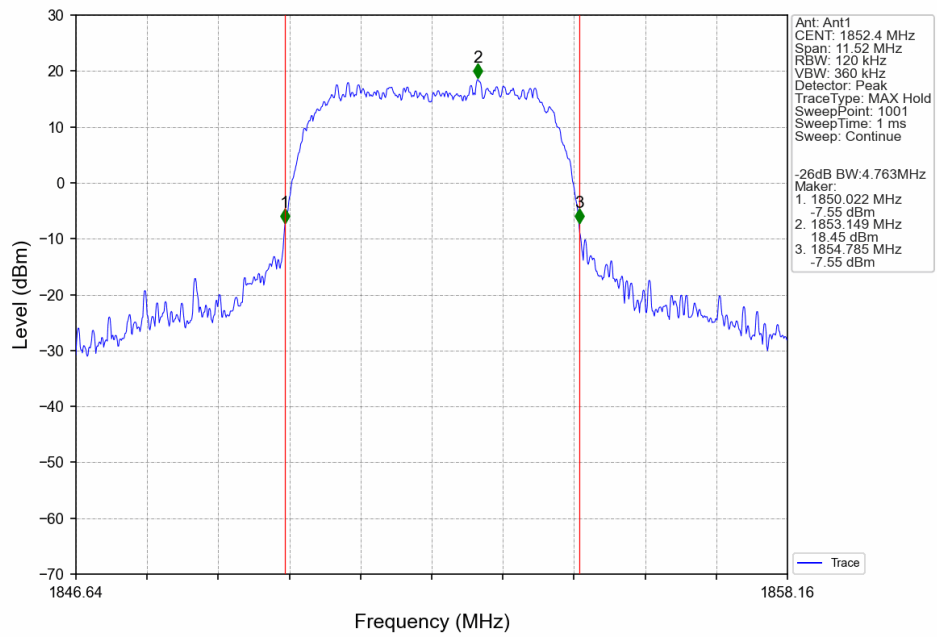
Band II HSDPA MCH 1880MHz Subtest 1 NTN



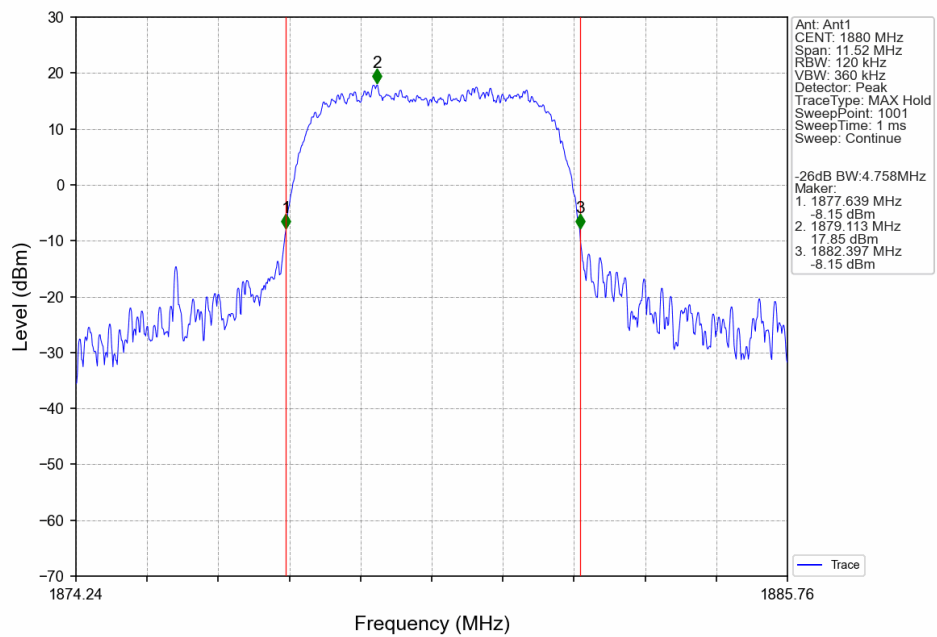
Band II HSDPA HCH 1907.6MHz Subtest 1 NTN



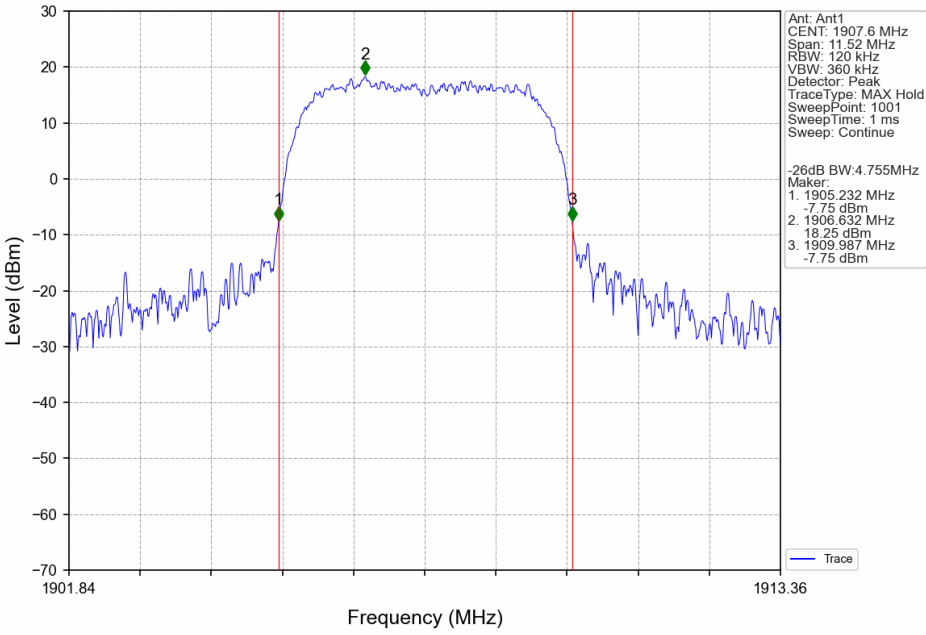
Band II HSUPA LCH 1852.4MHz Subtest 1 NTNV



Band II HSUPA MCH 1880MHz Subtest 1 NTNV



Band II HSUPA HCH 1907.6MHz Subtest 1 NTN



4. Peak-Average Ratio

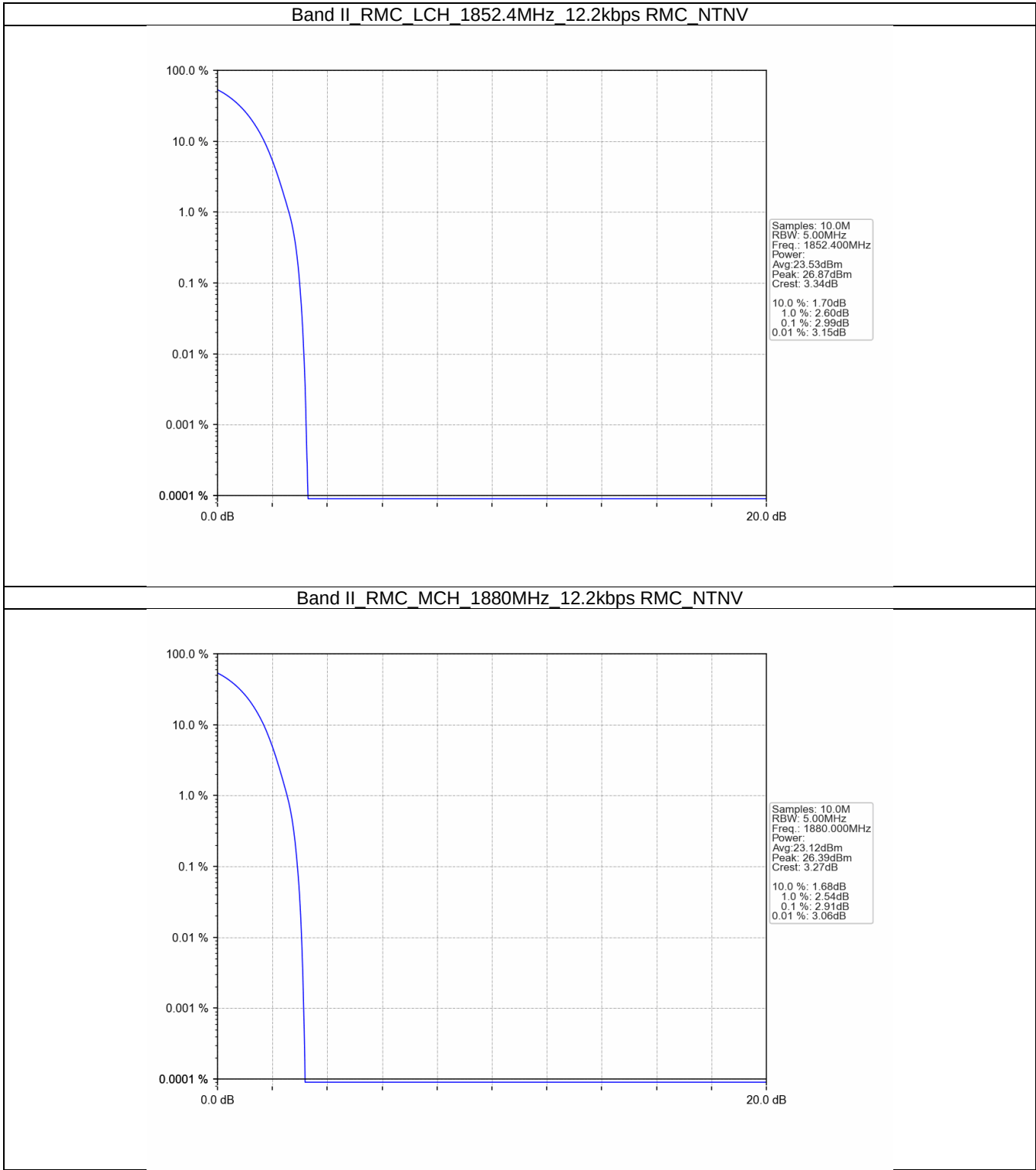
4.1 Test Result

4.1.1 Band II

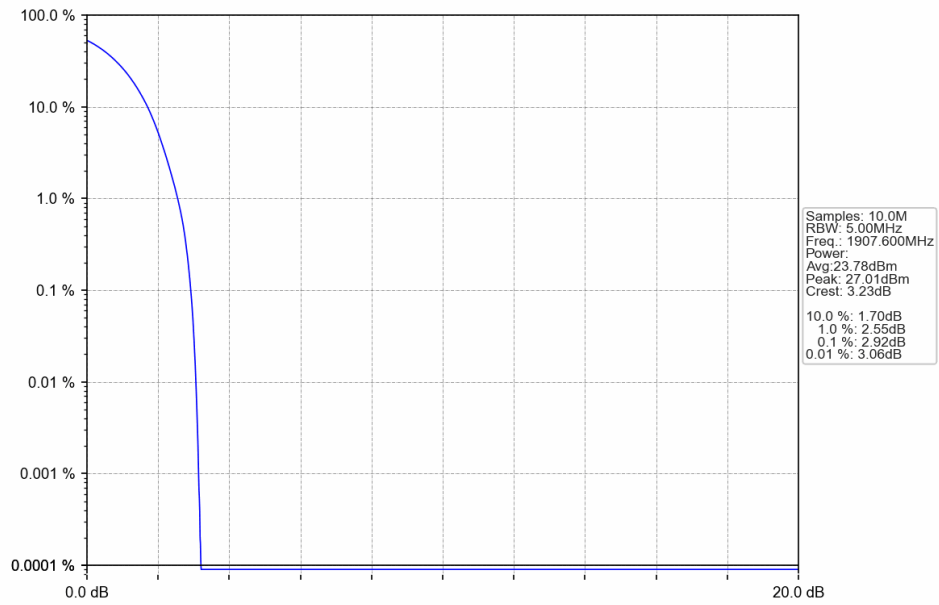
Band: II						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.99	<=13	Pass
			1880	2.91	<=13	Pass
			1907.6	2.92	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.78	<=13	Pass
			1880	5.74	<=13	Pass
			1907.6	5.78	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.77	<=13	Pass
			1880	5.78	<=13	Pass
			1907.6	5.79	<=13	Pass

4.2 Test Graph

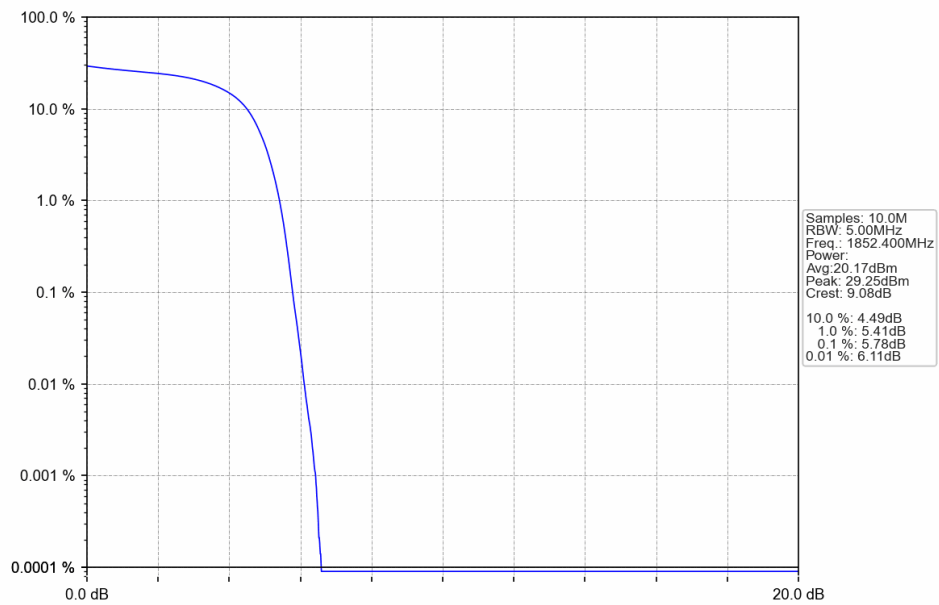
4.2.1 Band II



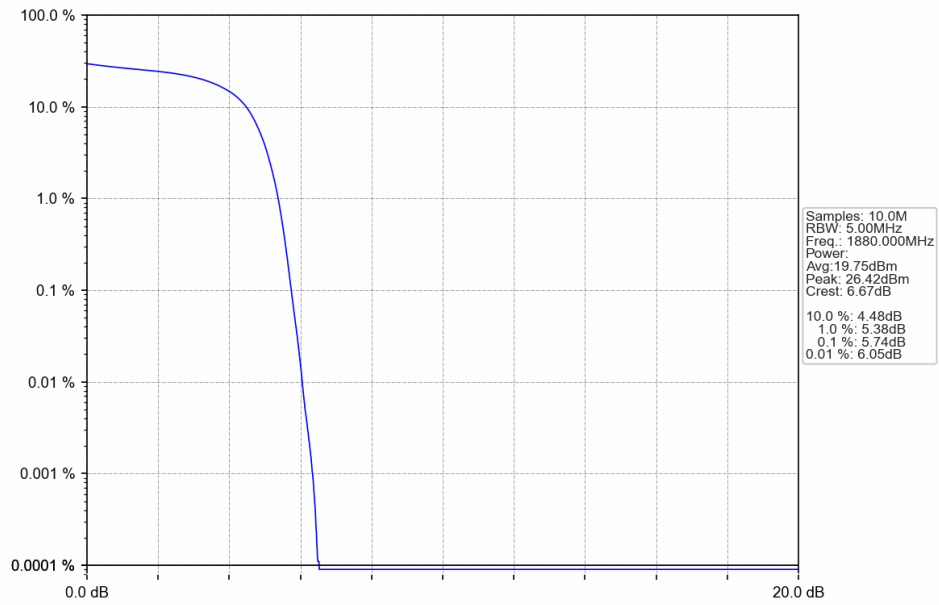
Band II RMC HCH 1907.6MHz 12.2kbps RMC NTN



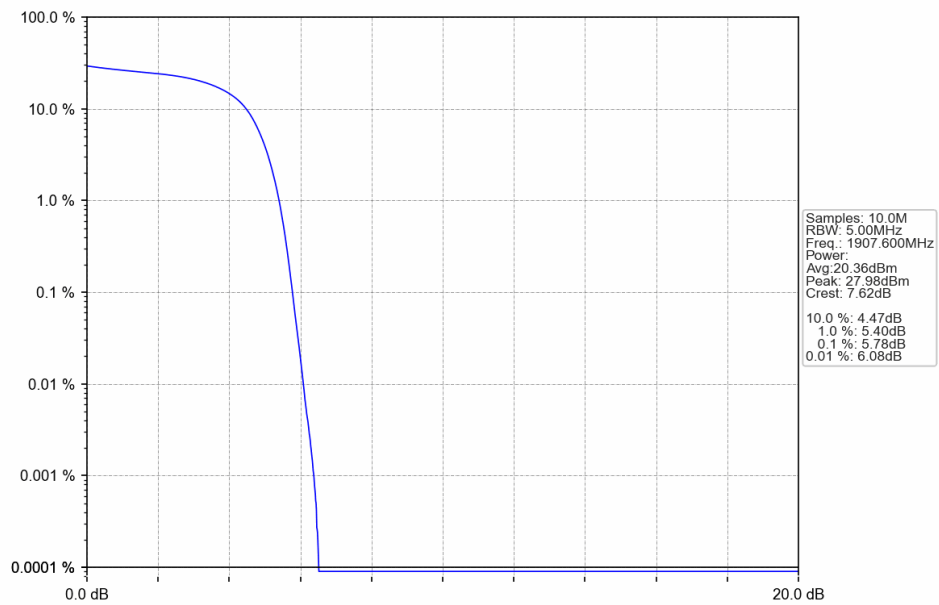
Band II HSDPA LCH 1852.4MHz Subtest 1 NTN



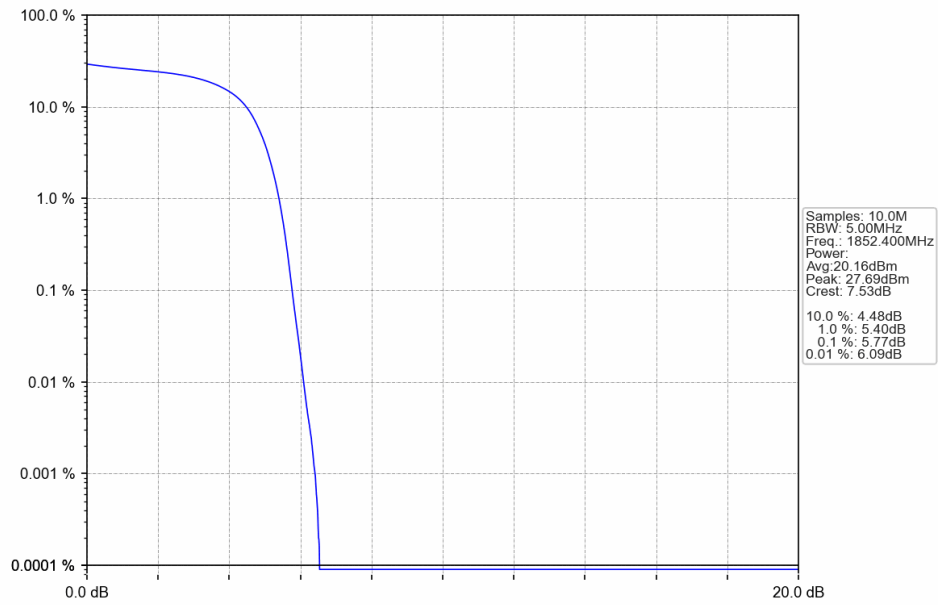
Band II HSDPA MCH 1880MHz Subtest 1 NTN



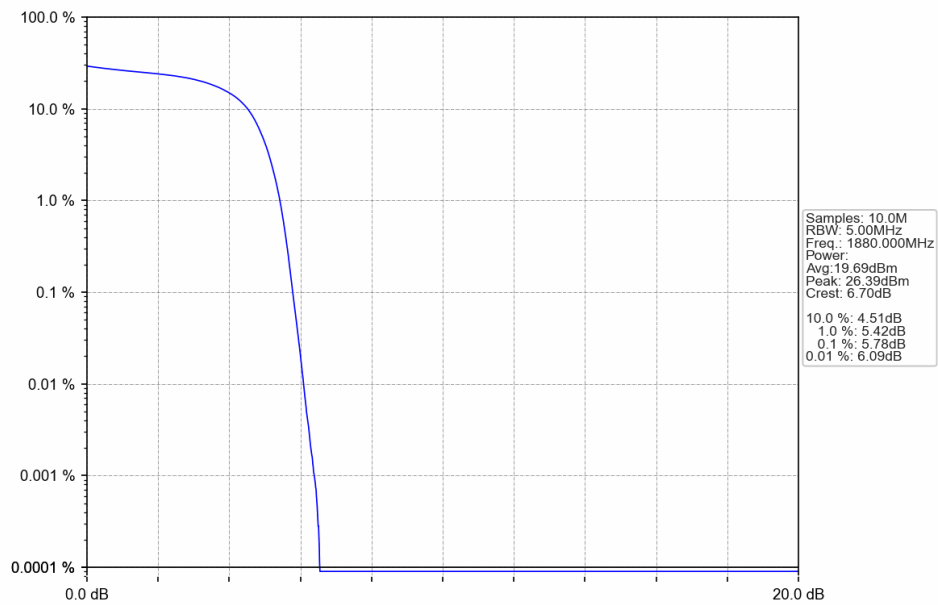
Band II HSDPA HCH 1907.6MHz Subtest 1 NTN



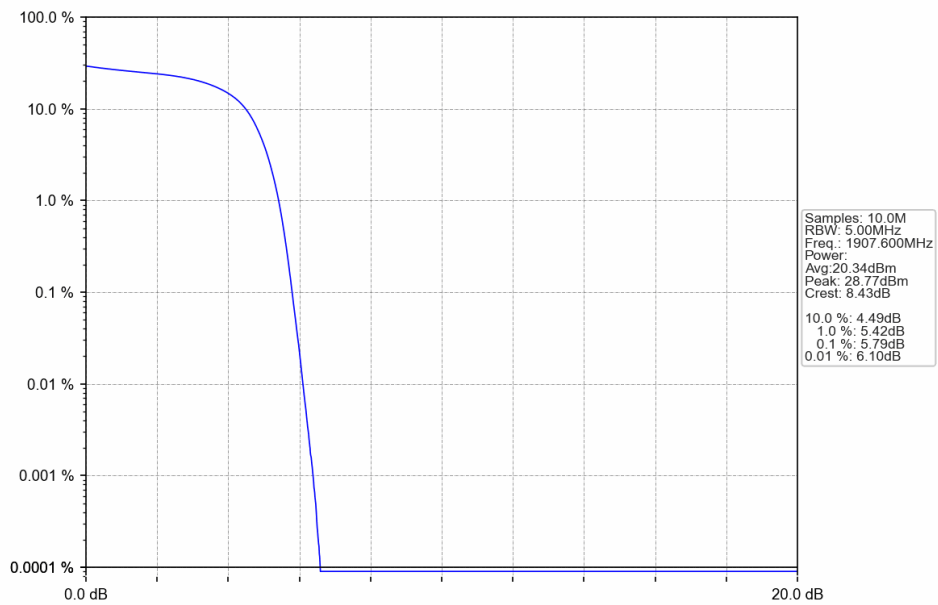
Band II HSUPA LCH 1852.4MHz Subtest 1 NTNV



Band II HSUPA MCH 1880MHz Subtest 1 NTNV



Band II HSUPA HCH 1907.6MHz Subtest 1 NTNV



5. Spurious Emission

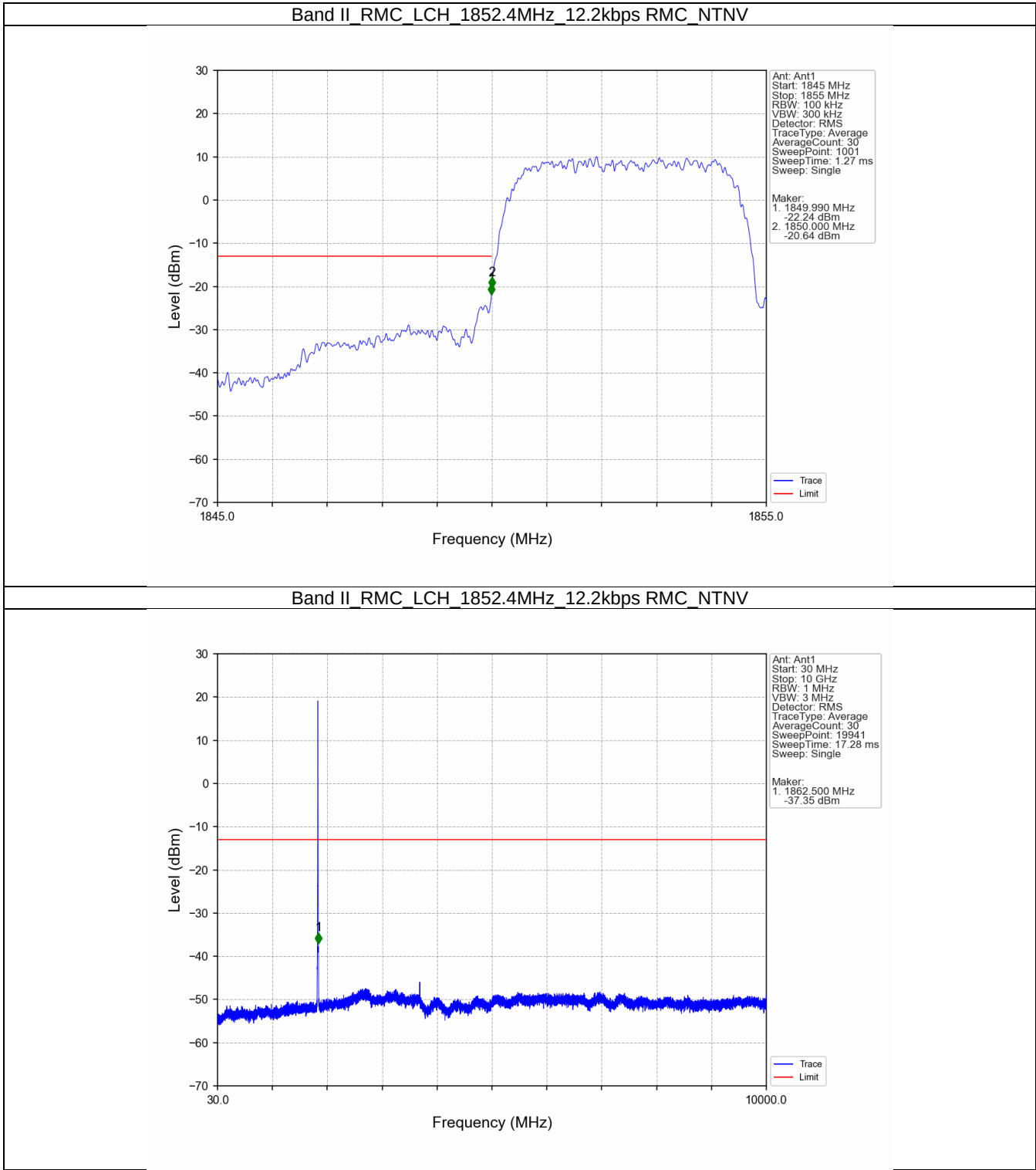
5.1 Test Result

5.1.1 Band II

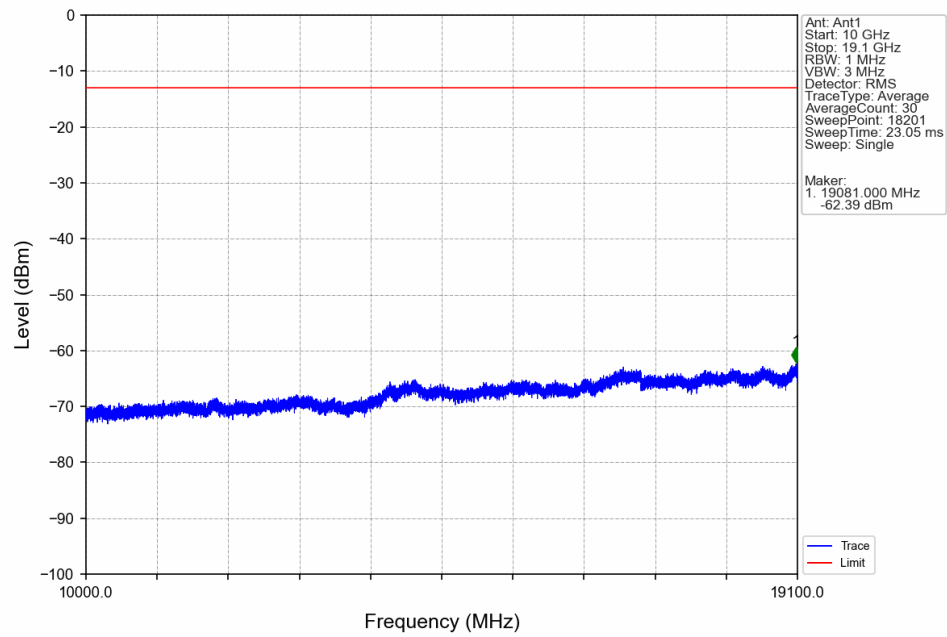
Band: II						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	
	HSUPA	Subtest 1	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	

5.2 Test Graph

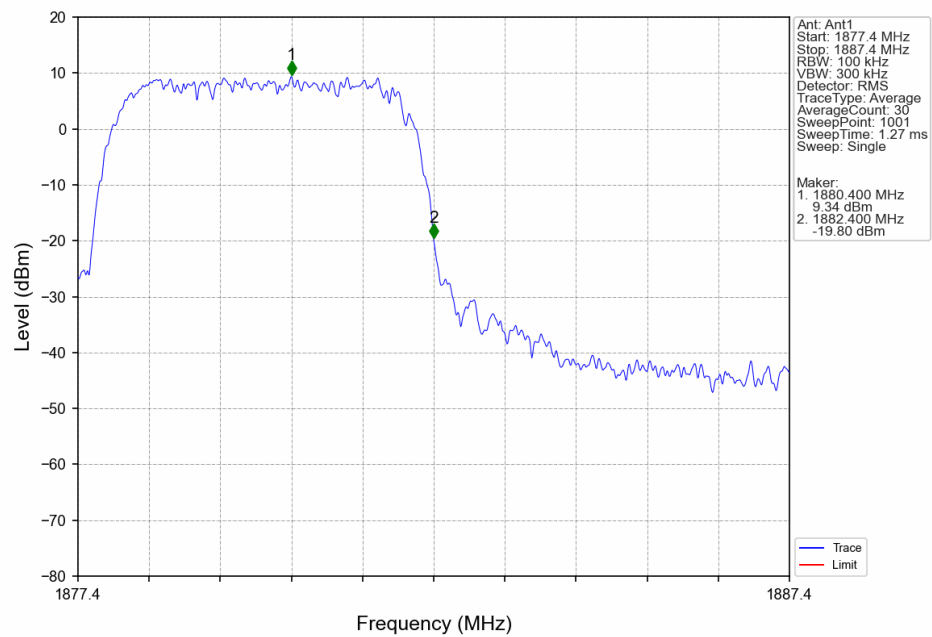
5.2.1 Band II



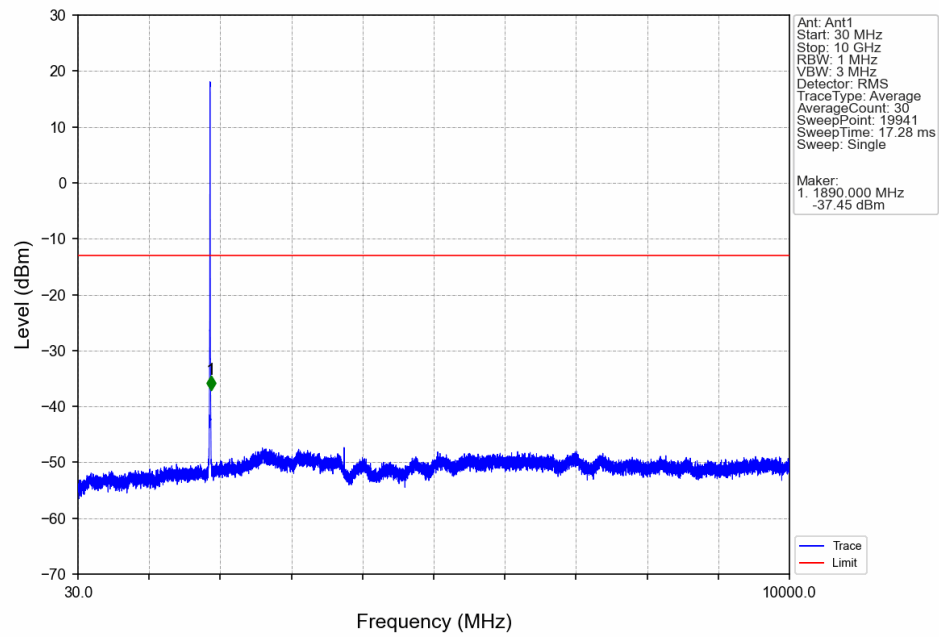
Band II RMC LCH 1852.4MHz 12.2kbps RMC NTNV



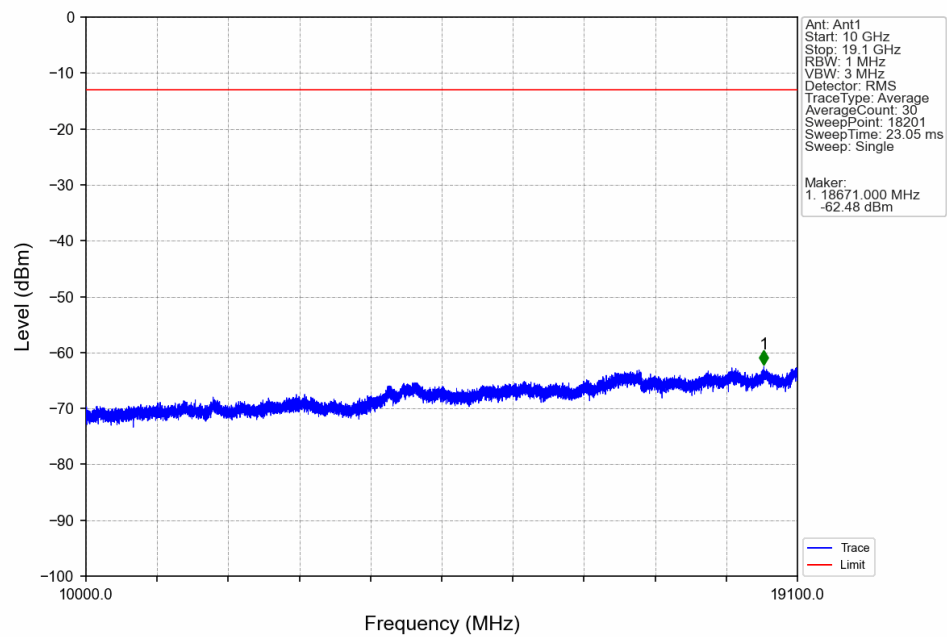
Band II RMC MCH 1880MHz 12.2kbps RMC NTNV



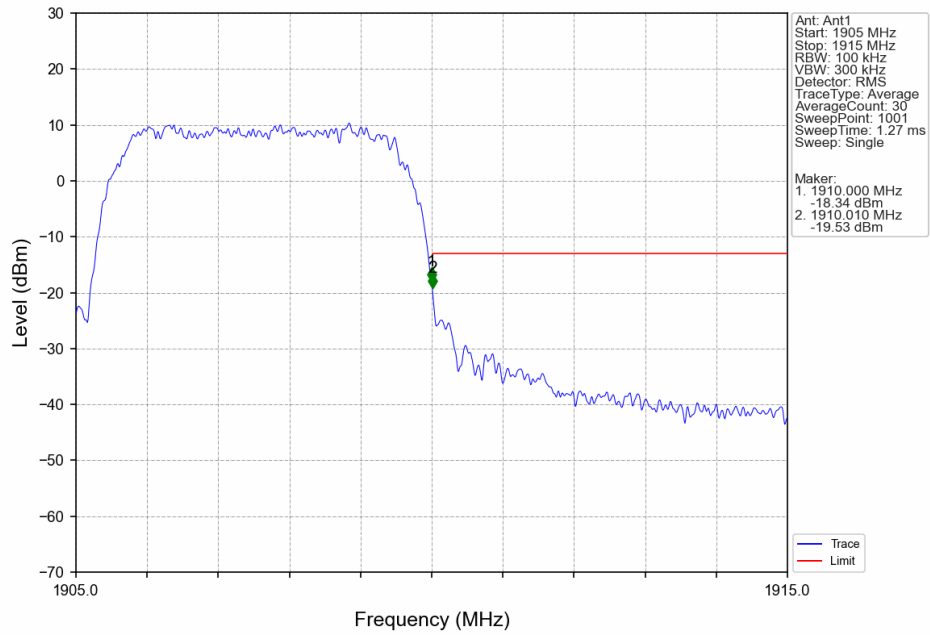
Band II RMC MCH 1880MHz 12.2kbps RMC NTN



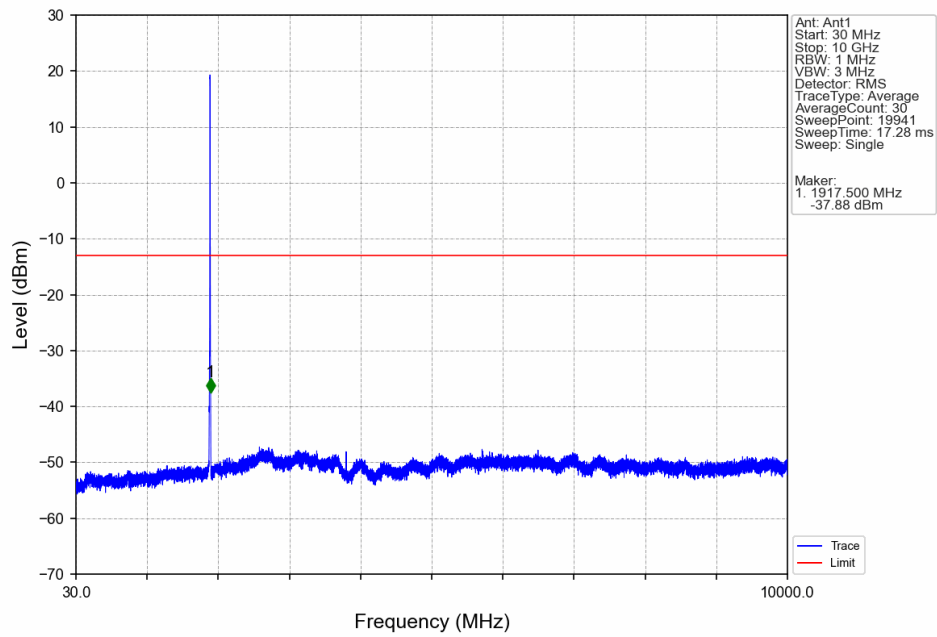
Band II RMC MCH 1880MHz 12.2kbps RMC NTN



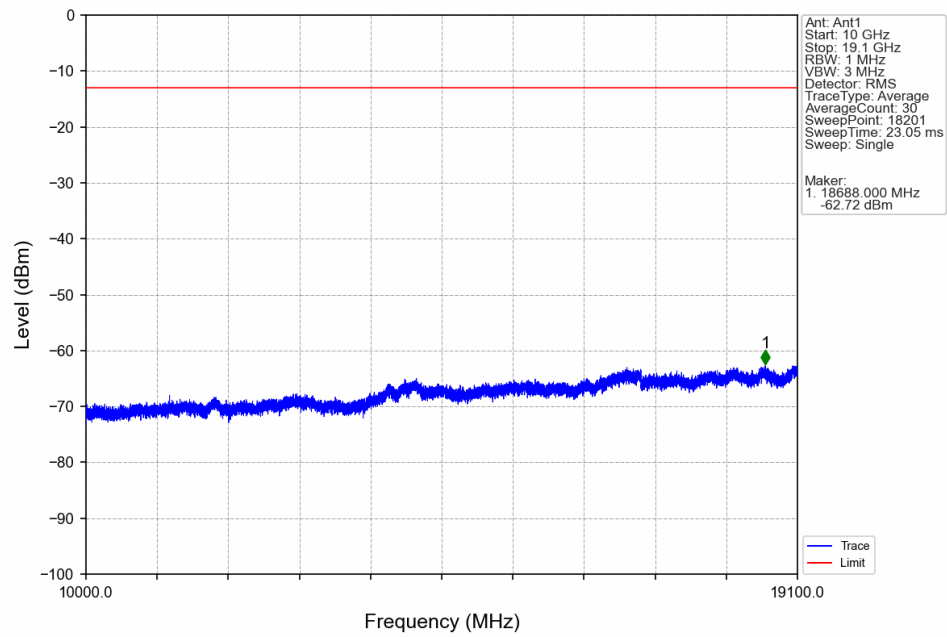
Band II RMC HCH 1907.6MHz 12.2kbps RMC NTN



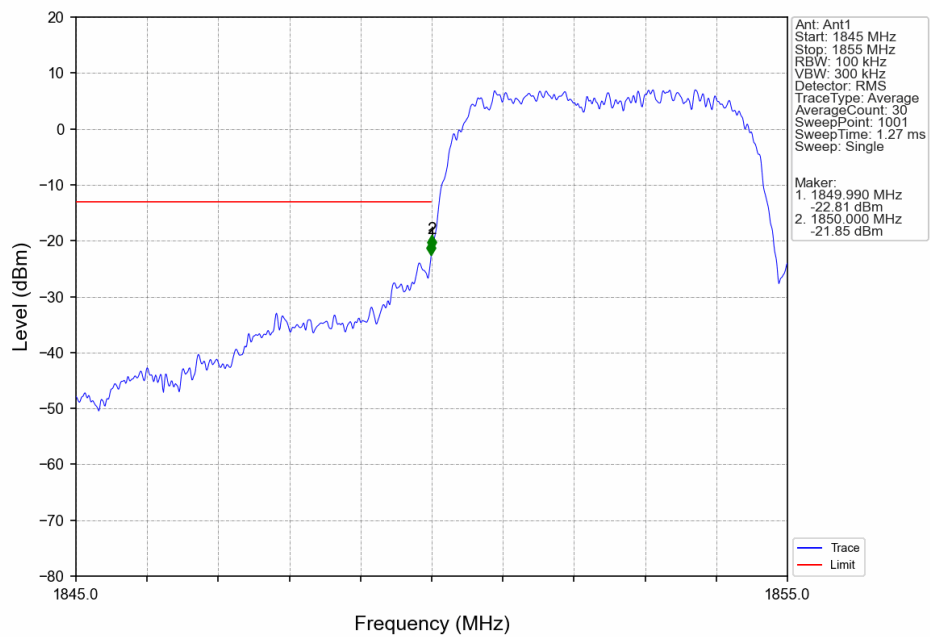
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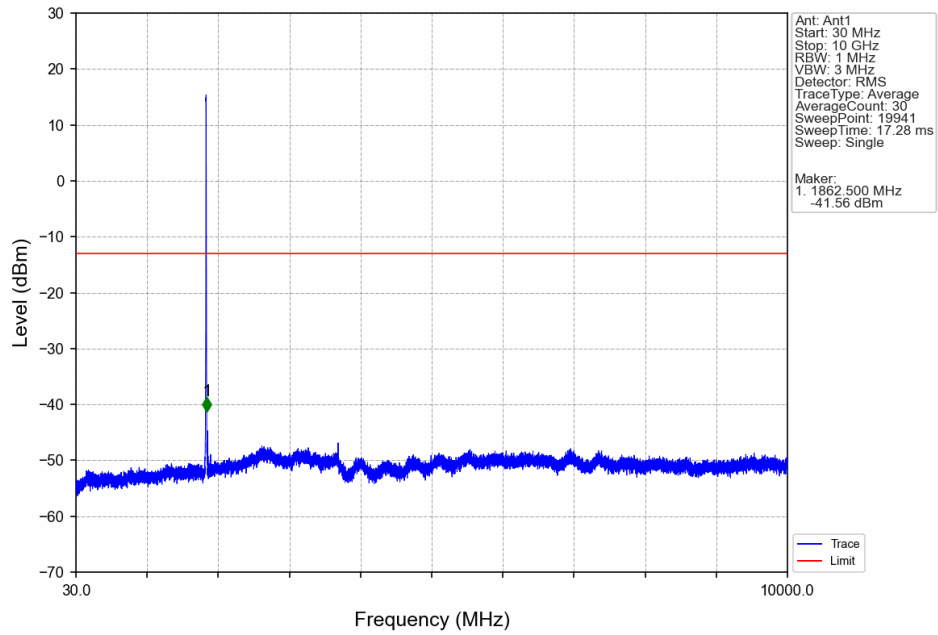
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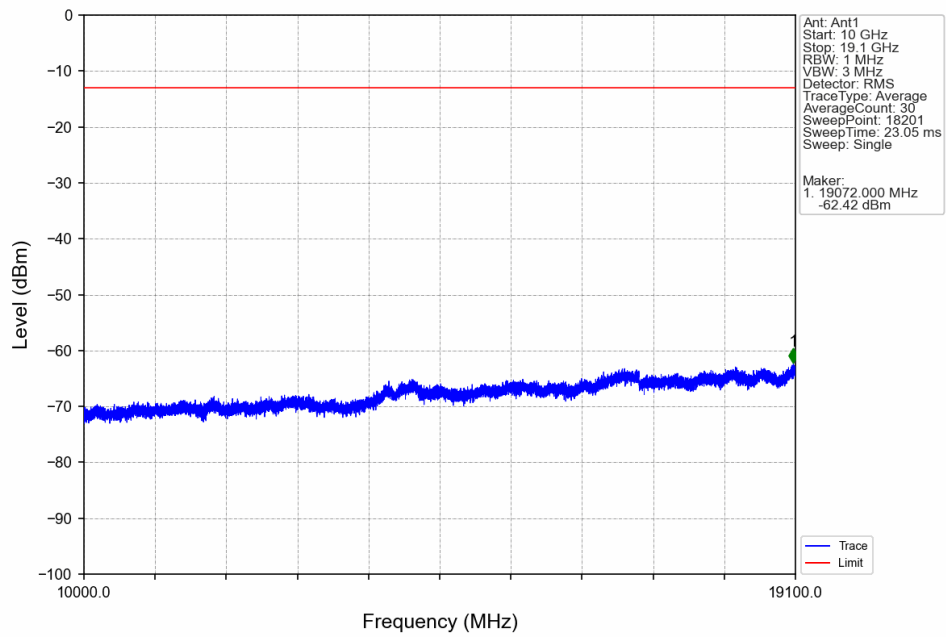
Band II HSDPA LCH 1852.4MHz Subtest 1 NTN



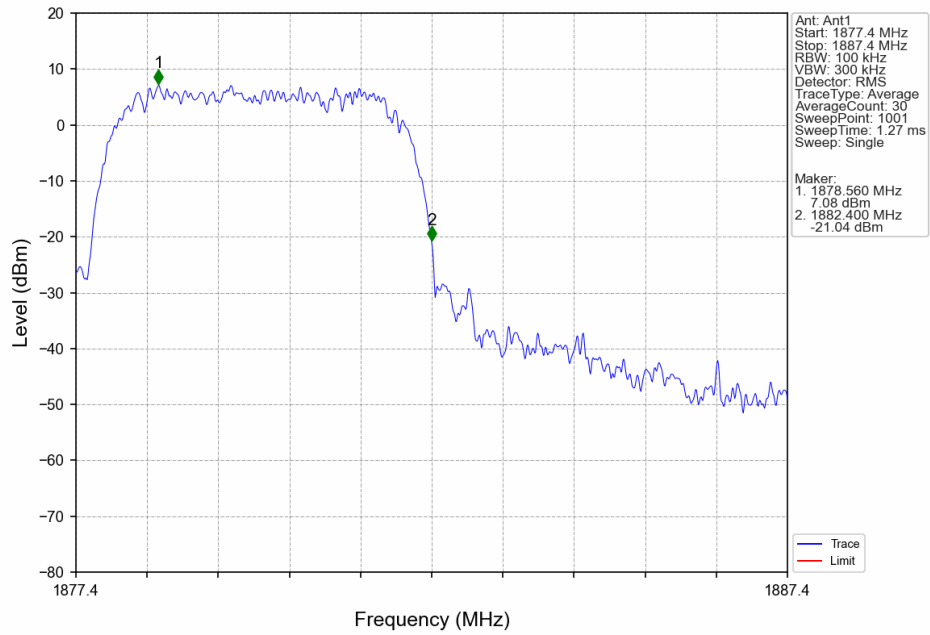
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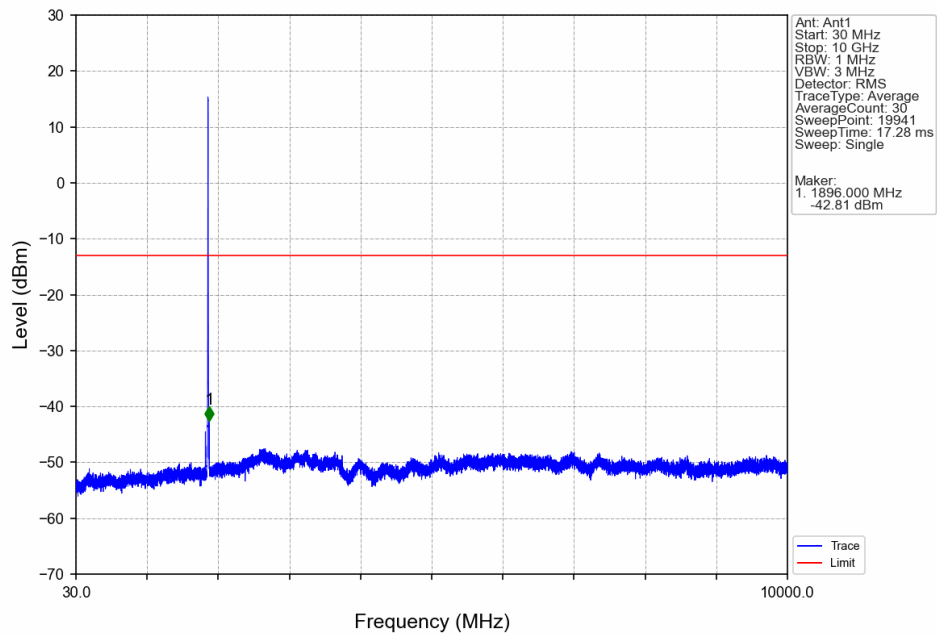
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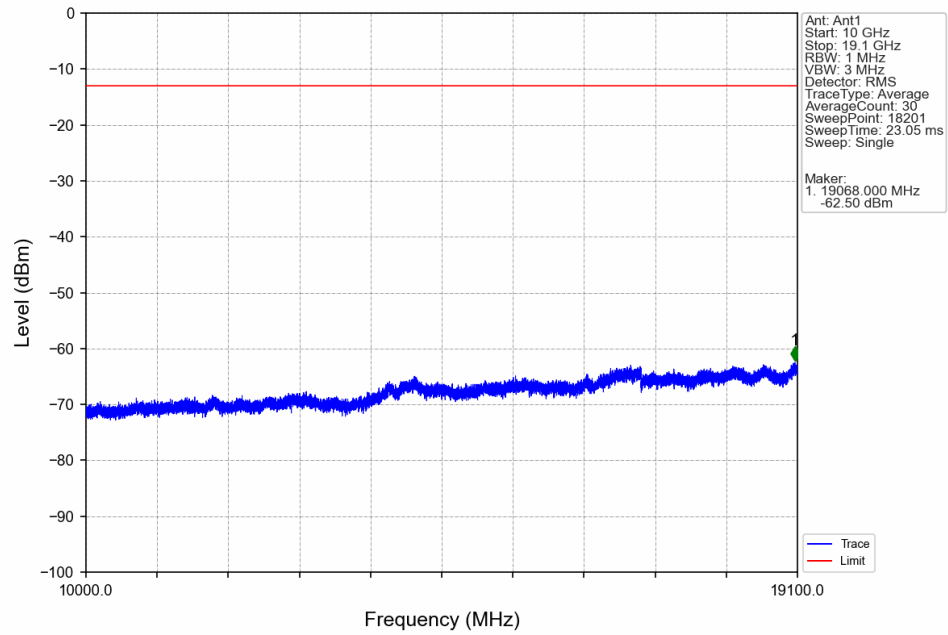
Band II HSDPA MCH 1880MHz Subtest 1 NTNV



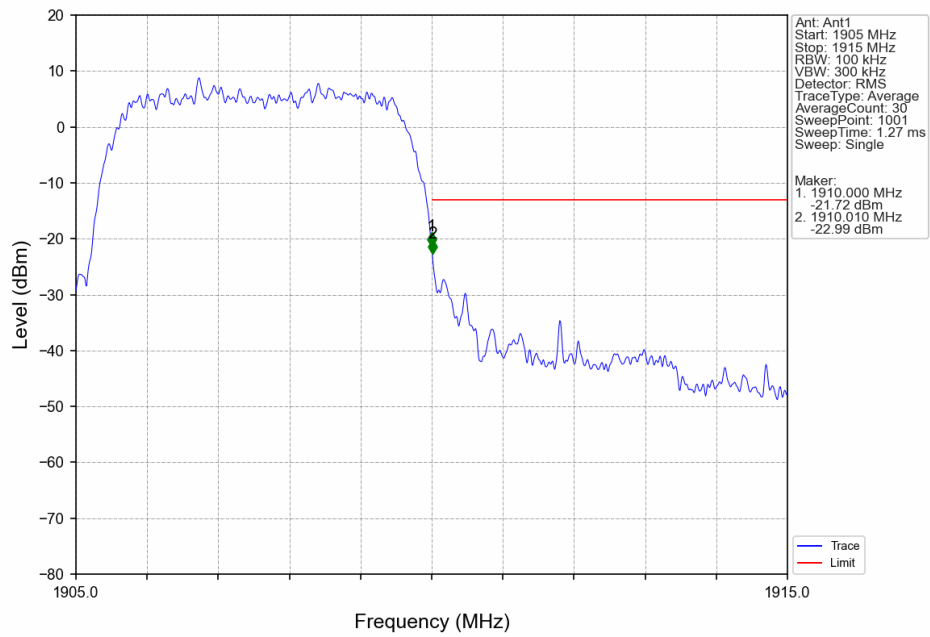
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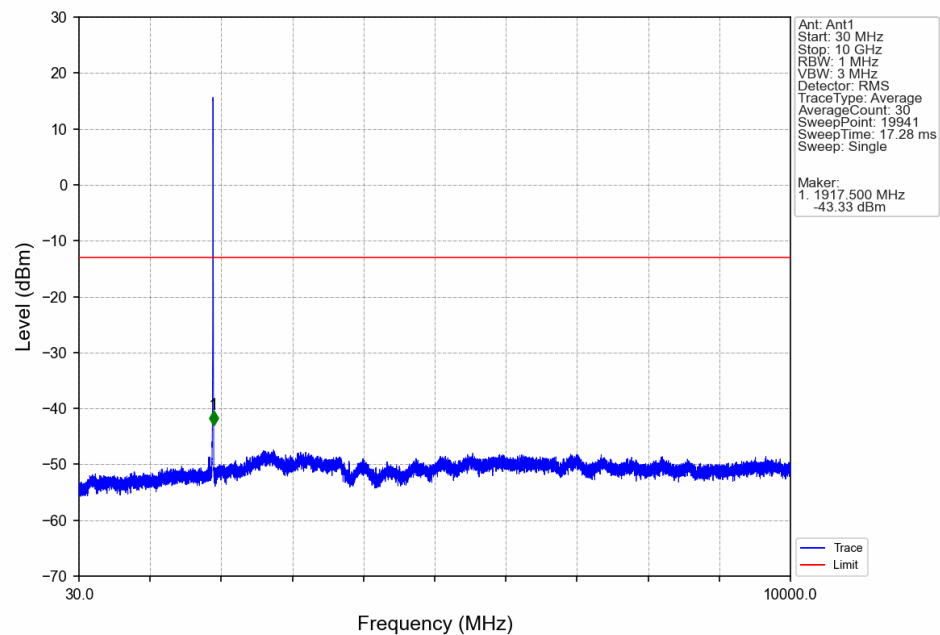
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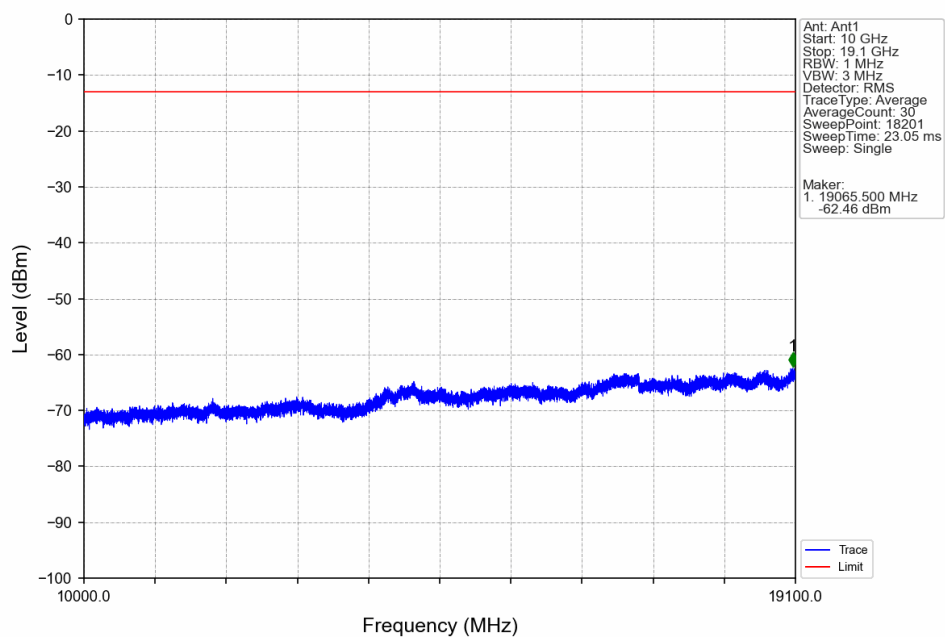
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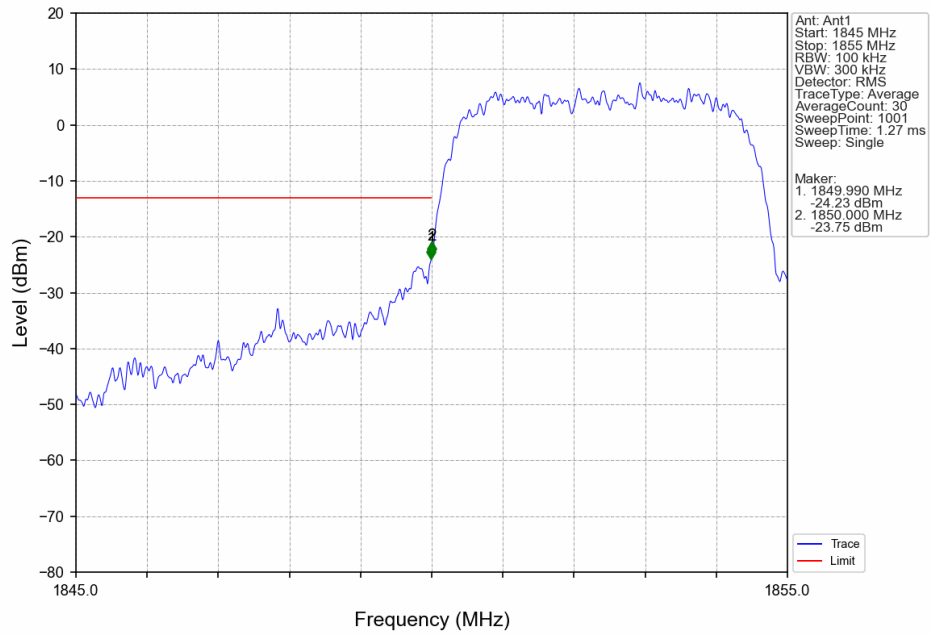
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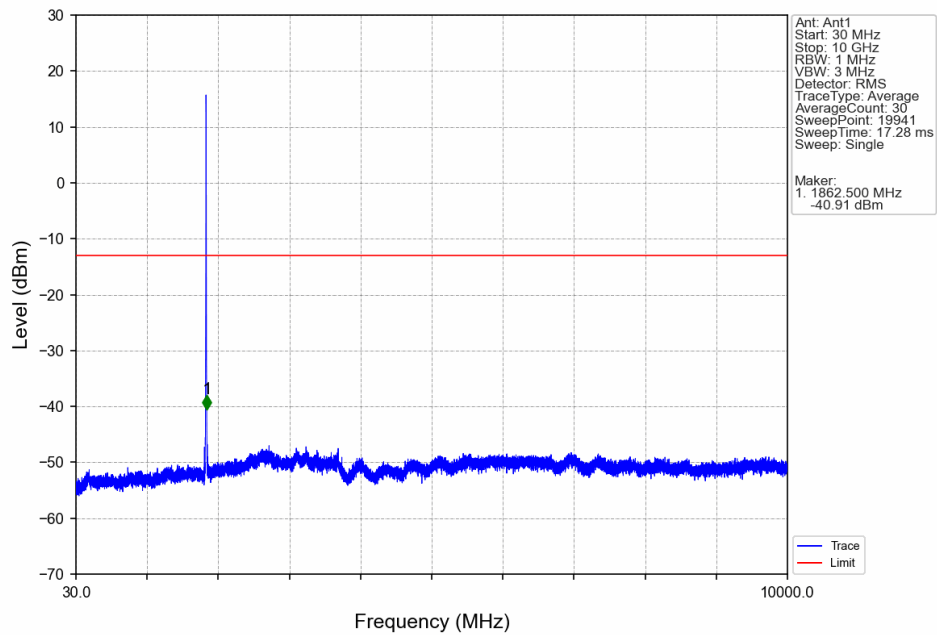
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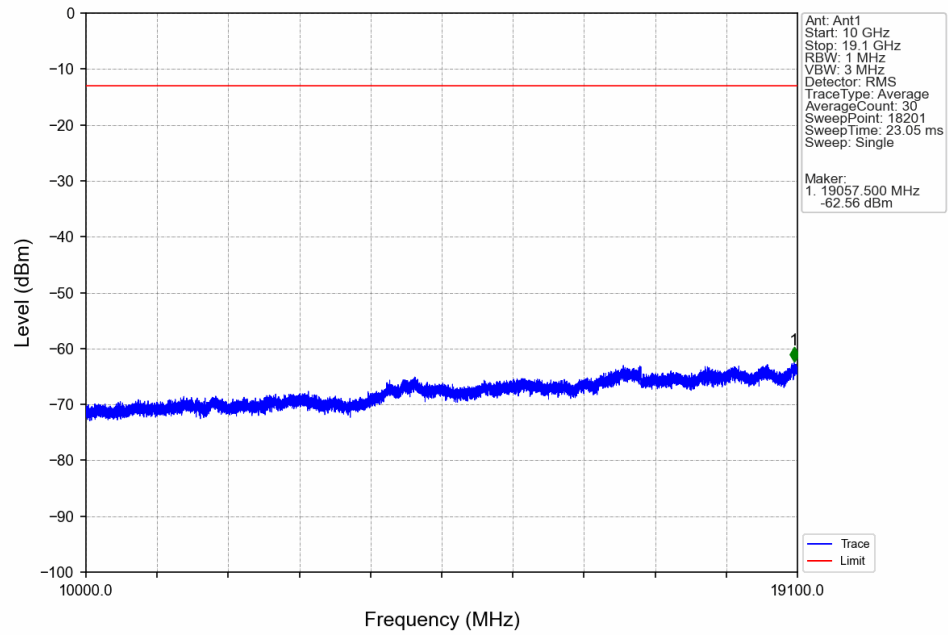
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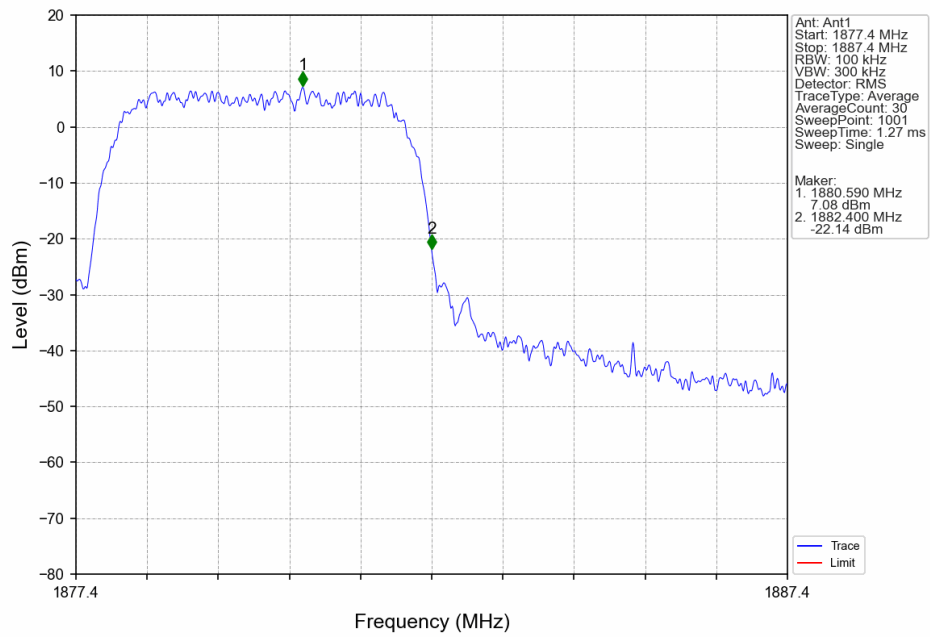
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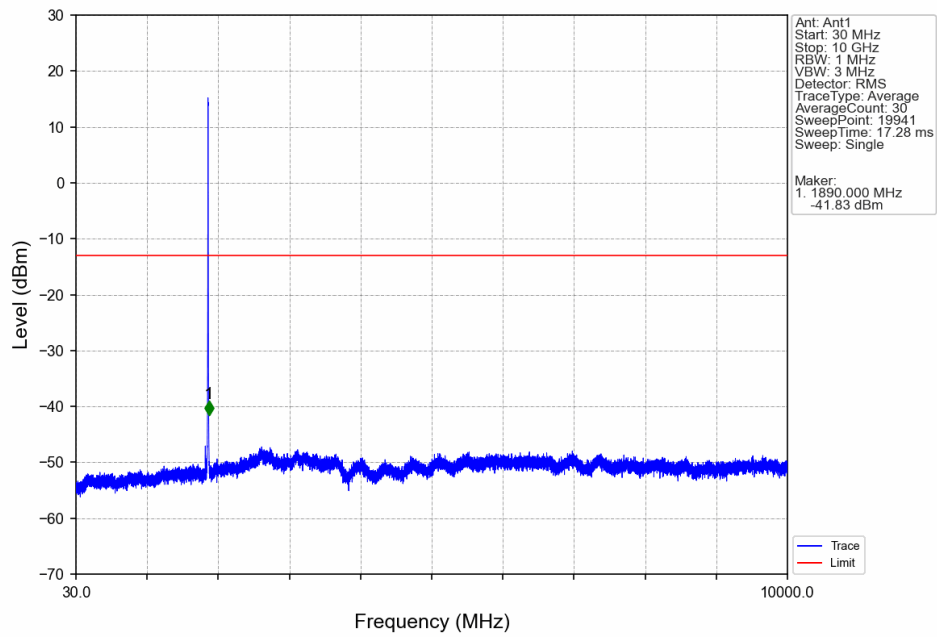
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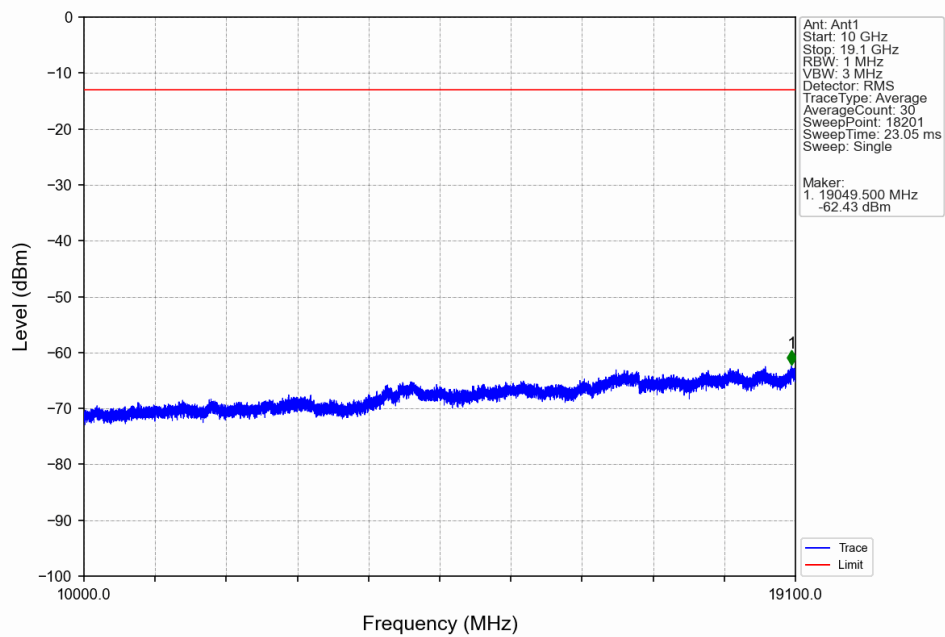
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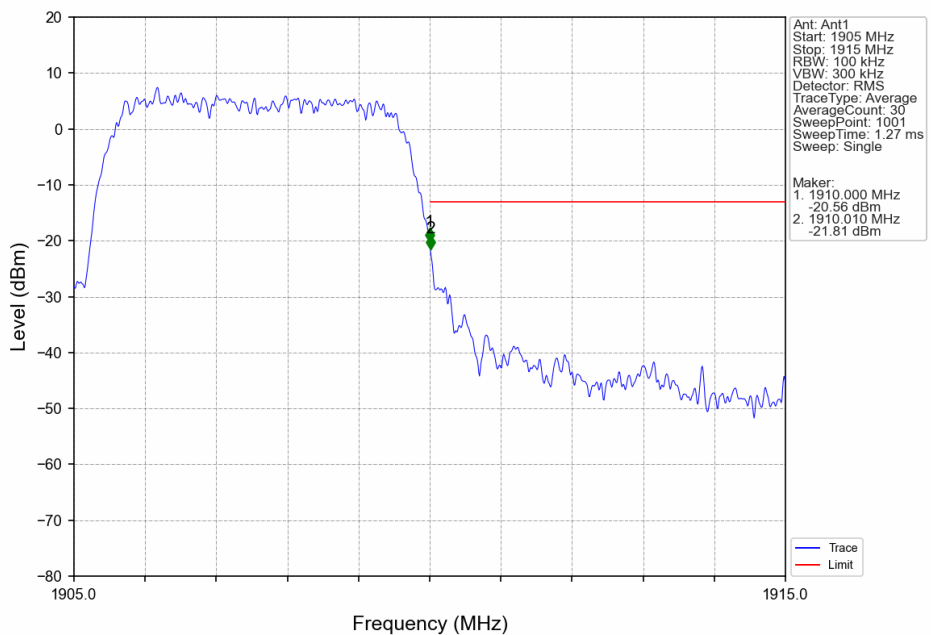
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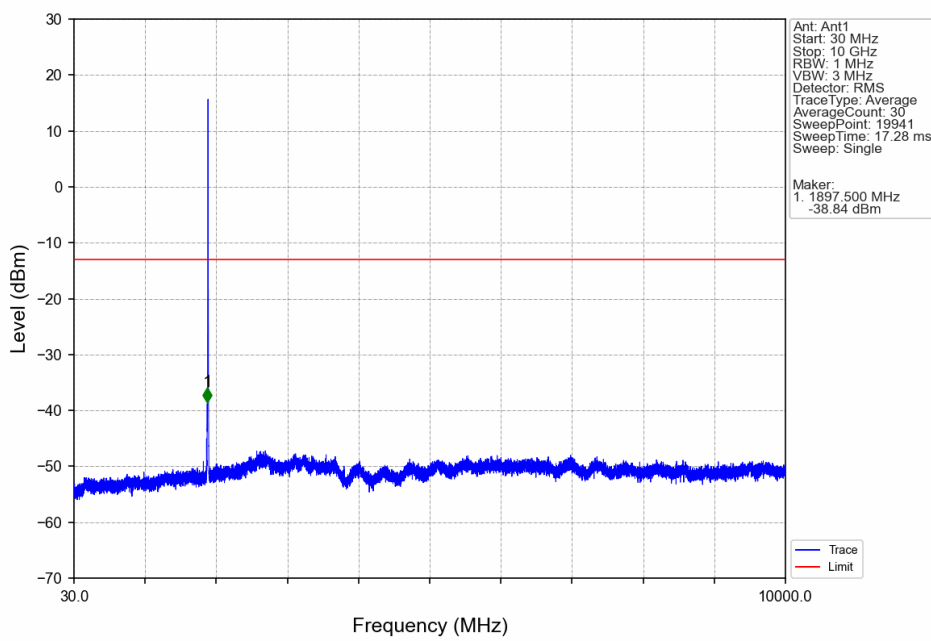
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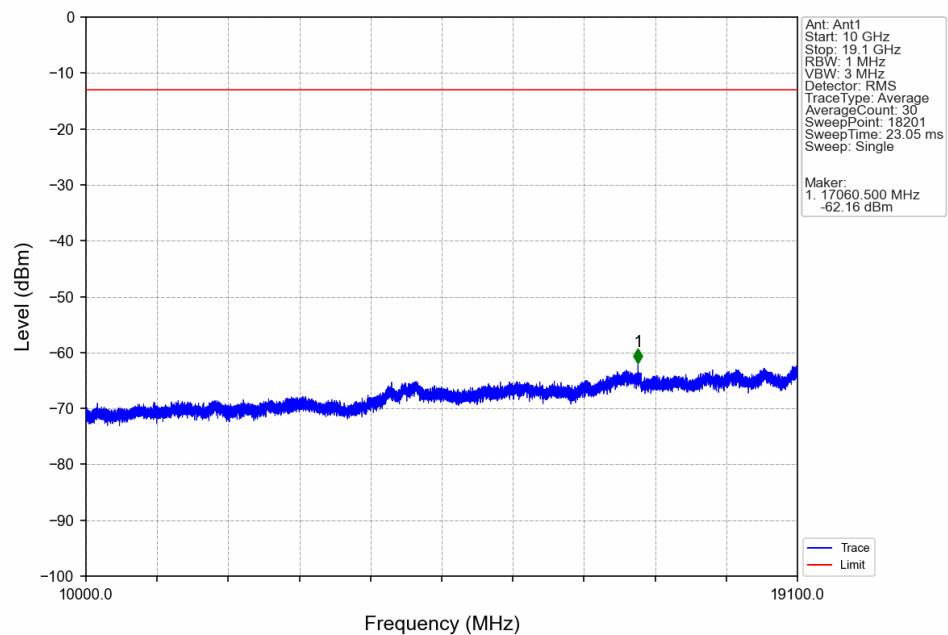
Band II HSUPA HCH 1907.6MHz Subtest 1 NTN



Band II HSUPA HCH 1907.6MHz Subtest 1 NTN



Band II HSUPA HCH 1907.6MHz Subtest 1 NTNV



6. Field Strength of Spurious Radiation

WCDMA Band II ANT5-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3704.8	-54.97	-13	-41.97	-59.83	3.58	8.44	Horizontal	Pass
5557.2	-62.19	-13	-49.19	-67.9	4.74	10.45	Horizontal	Pass
7409.6	-60.45	-13	-47.45	-67.14	4.94	11.63	Horizontal	Pass
3704.8	-59.27	-13	-46.27	-64.13	3.58	8.44	Vertical	Pass
5557.2	-62.55	-13	-49.55	-68.26	4.74	10.45	Vertical	Pass
7409.6	-60.7	-13	-47.7	-67.39	4.94	11.63	Vertical	Pass

WCDMA Band II ANT5-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3760.0	-59.36	-13	-46.36	-64.25	3.63	8.52	Horizontal	Pass
5640.0	-61.28	-13	-48.28	-66.98	4.75	10.45	Horizontal	Pass
7520.0	-60.68	-13	-47.68	-67.5	4.94	11.76	Horizontal	Pass
3760.0	-61.45	-13	-48.45	-66.34	3.63	8.52	Vertical	Pass
5640.0	-60.15	-13	-47.15	-65.85	4.75	10.45	Vertical	Pass
7520.0	-60.96	-13	-47.96	-67.78	4.94	11.76	Vertical	Pass

WCDMA Band II ANT5-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3815.2	-65.55	-13	-52.55	-70.46	3.68	8.59	Horizontal	Pass
5722.8	-62.38	-13	-49.38	-68.07	4.76	10.45	Horizontal	Pass
7630.4	-60.36	-13	-47.36	-67.3	4.95	11.89	Horizontal	Pass
3815.2	-66.35	-13	-53.35	-71.26	3.68	8.59	Vertical	Pass
5722.8	-60.8	-13	-47.8	-66.49	4.76	10.45	Vertical	Pass
7630.4	-60.14	-13	-47.14	-67.08	4.95	11.89	Vertical	Pass