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Appendix B.3

WCDMA Band II



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1. Effective (Isotropic) Radiated Power Output Data

1.1 BandII_EIRP_Ant1

1.1.1 Test Result

ENV	Band: II										
	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict			
	Network	Subset				Result	Limit				
NTNV	RMC	12.2kbps RMC	1852.4	24.87	0.10	24.97	<=33.01	Pass			
			1880	24.54	0.10	24.64	<=33.01	Pass			
			1907.6	24.65	0.10	24.75	<=33.01	Pass			
	HSDPA		Subtest 1	1852.4	22.68	0.10	22.78	<=33.01	Pass		
			Subtest 2	1852.4	22.71	0.10	22.81	<=33.01	Pass		
			Subtest 3	1852.4	22.68	0.10	22.78	<=33.01	Pass		
			Subtest 4	1852.4	22.66	0.10	22.76	<=33.01	Pass		
			Subtest 1	1880	22.67	0.10	22.77	<=33.01	Pass		
			Subtest 2	1880	22.67	0.10	22.77	<=33.01	Pass		
			Subtest 3	1880	22.69	0.10	22.79	<=33.01	Pass		
			Subtest 4	1880	22.72	0.10	22.82	<=33.01	Pass		
			Subtest 1	1907.6	22.76	0.10	22.86	<=33.01	Pass		
			Subtest 2	1907.6	22.77	0.10	22.87	<=33.01	Pass		
			Subtest 3	1907.6	22.76	0.10	22.86	<=33.01	Pass		
			Subtest 4	1907.6	22.70	0.10	22.80	<=33.01	Pass		
			HSUPA		Subtest 1	1852.4	20.95	0.10	21.05	<=33.01	Pass
					Subtest 2	1852.4	20.47	0.10	20.57	<=33.01	Pass
					Subtest 3	1852.4	20.28	0.10	20.38	<=33.01	Pass
					Subtest 4	1852.4	20.32	0.10	20.42	<=33.01	Pass
	Subtest 5	1852.4			20.43	0.10	20.53	<=33.01	Pass		
	Subtest 1	1880			20.92	0.10	21.02	<=33.01	Pass		
	Subtest 2	1880			20.32	0.10	20.42	<=33.01	Pass		
	Subtest 3	1880			20.79	0.10	20.89	<=33.01	Pass		
	Subtest 4	1880			20.64	0.10	20.74	<=33.01	Pass		
	Subtest 5	1880			20.33	0.10	20.43	<=33.01	Pass		
	Subtest 1	1907.6			20.88	0.10	20.98	<=33.01	Pass		
	Subtest 2	1907.6			20.43	0.10	20.53	<=33.01	Pass		
	Subtest 3	1907.6			20.84	0.10	20.94	<=33.01	Pass		
	Subtest 4	1907.6			20.69	0.10	20.79	<=33.01	Pass		
	Subtest 5	1907.6			20.88	0.10	20.98	<=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	3.6	-18.461	-0.0100	/	Pass
			3.84	-17.831	-0.0096	/	Pass
			4.3	-18.232	-0.0098	/	Pass
		-30	3.84	-18.682	-0.0101	/	Pass
		-20	3.84	-18.024	-0.0097	/	Pass
		-10	3.84	-15.957	-0.0086	/	Pass
		0	3.84	-16.100	-0.0087	/	Pass
		10	3.84	-15.335	-0.0083	/	Pass
		30	3.84	-13.146	-0.0071	/	Pass
		40	3.84	-15.435	-0.0083	/	Pass
	50	3.84	-14.699	-0.0079	/	Pass	
	1880	20	3.6	-10.657	-0.0057	/	Pass
			3.84	-13.053	-0.0069	/	Pass
			4.3	-10.350	-0.0055	/	Pass
		-30	3.84	-10.757	-0.0057	/	Pass
		-20	3.84	-12.789	-0.0068	/	Pass
		-10	3.84	-14.319	-0.0076	/	Pass
		0	3.84	-11.487	-0.0061	/	Pass
		10	3.84	-12.245	-0.0065	/	Pass
		30	3.84	-13.061	-0.0069	/	Pass
		40	3.84	-10.836	-0.0058	/	Pass
	50	3.84	-11.666	-0.0062	/	Pass	
	1907.6	20	3.6	-14.734	-0.0077	/	Pass
			3.84	-15.886	-0.0083	/	Pass
			4.3	-14.040	-0.0074	/	Pass
		-30	3.84	-11.759	-0.0062	/	Pass
		-20	3.84	-16.079	-0.0084	/	Pass
		-10	3.84	-11.966	-0.0063	/	Pass
		0	3.84	-14.827	-0.0078	/	Pass
		10	3.84	-12.875	-0.0067	/	Pass
30		3.84	-11.587	-0.0061	/	Pass	
40		3.84	-10.765	-0.0056	/	Pass	
50	3.84	-12.295	-0.0064	/	Pass		
HSDPA	1852.4	20	3.6	-19.305	-0.0104	/	Pass
			3.84	-23.410	-0.0126	/	Pass



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HSUPA			4.3	-21.286	-0.0115	/	Pass	
		-30	3.84	-21.207	-0.0114	/	Pass	
		-20	3.84	-22.624	-0.0122	/	Pass	
		-10	3.84	-23.124	-0.0125	/	Pass	
		0	3.84	-24.920	-0.0135	/	Pass	
		10	3.84	-23.468	-0.0127	/	Pass	
		30	3.84	-22.359	-0.0121	/	Pass	
		40	3.84	-23.811	-0.0129	/	Pass	
	50	3.84	-24.734	-0.0134	/	Pass		
	1880	20		3.6	-27.380	-0.0146	/	Pass
				3.84	-27.165	-0.0144	/	Pass
				4.3	-31.750	-0.0169	/	Pass
		-30	3.84	-25.120	-0.0134	/	Pass	
		-20	3.84	-24.533	-0.0130	/	Pass	
		-10	3.84	-24.562	-0.0131	/	Pass	
		0	3.84	-23.139	-0.0123	/	Pass	
		10	3.84	-29.869	-0.0159	/	Pass	
		30	3.84	-19.920	-0.0106	/	Pass	
		40	3.84	-23.768	-0.0126	/	Pass	
	50	3.84	-21.729	-0.0116	/	Pass		
	1907.6	20		3.6	-23.239	-0.0122	/	Pass
				3.84	-29.368	-0.0154	/	Pass
				4.3	-30.513	-0.0160	/	Pass
		-30	3.84	-29.619	-0.0155	/	Pass	
		-20	3.84	-27.359	-0.0143	/	Pass	
		-10	3.84	-28.996	-0.0152	/	Pass	
		0	3.84	-29.597	-0.0155	/	Pass	
		10	3.84	-29.619	-0.0155	/	Pass	
		30	3.84	-25.849	-0.0136	/	Pass	
		40	3.84	-23.961	-0.0126	/	Pass	
	50	3.84	-23.296	-0.0122	/	Pass		
	1852.4	20		3.6	-7.217	-0.0039	/	Pass
				3.84	-16.866	-0.0091	/	Pass
			4.3	-18.725	-0.0101	/	Pass	
-30		3.84	-16.937	-0.0091	/	Pass		
-20		3.84	-16.551	-0.0089	/	Pass		
-10		3.84	-18.504	-0.0100	/	Pass		
0		3.84	-16.801	-0.0091	/	Pass		
10		3.84	-16.344	-0.0088	/	Pass		
30		3.84	-14.262	-0.0077	/	Pass		
40		3.84	-17.531	-0.0095	/	Pass		
50		3.84	-13.797	-0.0074	/	Pass		
1880		20		3.6	-13.890	-0.0074	/	Pass
				3.84	-18.790	-0.0100	/	Pass
				4.3	-17.195	-0.0091	/	Pass
		-30	3.84	-19.805	-0.0105	/	Pass	
	-20	3.84	-20.185	-0.0107	/	Pass		
	-10	3.84	-17.338	-0.0092	/	Pass		



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		0	3.84	-15.957	-0.0085	/	Pass
		10	3.84	-17.560	-0.0093	/	Pass
		30	3.84	-17.767	-0.0095	/	Pass
		40	3.84	-17.159	-0.0091	/	Pass
		50	3.84	-17.610	-0.0094	/	Pass
	1907.6	20	3.6	-11.888	-0.0062	/	Pass
			3.84	-10.993	-0.0058	/	Pass
			4.3	-17.774	-0.0093	/	Pass
		-30	3.84	-16.322	-0.0086	/	Pass
		-20	3.84	-13.204	-0.0069	/	Pass
		-10	3.84	-14.663	-0.0077	/	Pass
		0	3.84	-14.863	-0.0078	/	Pass
		10	3.84	-10.493	-0.0055	/	Pass
		30	3.84	-13.204	-0.0069	/	Pass
		40	3.84	-13.733	-0.0072	/	Pass
		50	3.84	-13.704	-0.0072	/	Pass



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3. 99% & 26dB Bandwidth

3.1 BandII_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	4.175	/	Pass
			1880	4.162	/	Pass
			1907.6	4.176	/	Pass
	HSDPA	Subtest 1	1852.4	4.200	/	Pass
			1880	4.195	/	Pass
			1907.6	4.194	/	Pass
	HSUPA	Subtest 1	1852.4	4.200	/	Pass
			1880	4.193	/	Pass
			1907.6	4.231	/	Pass



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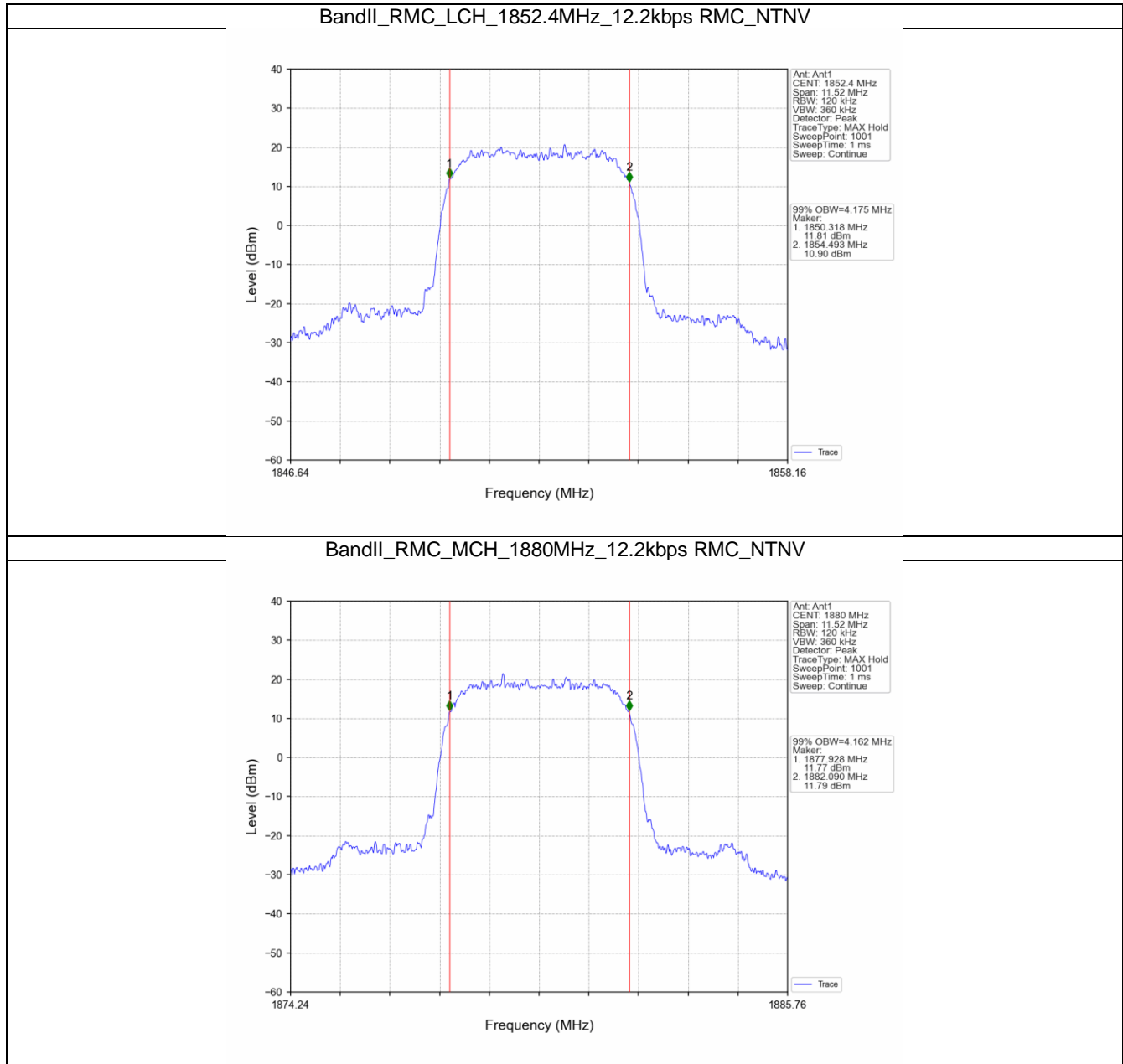
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3.1.2 Test Graph



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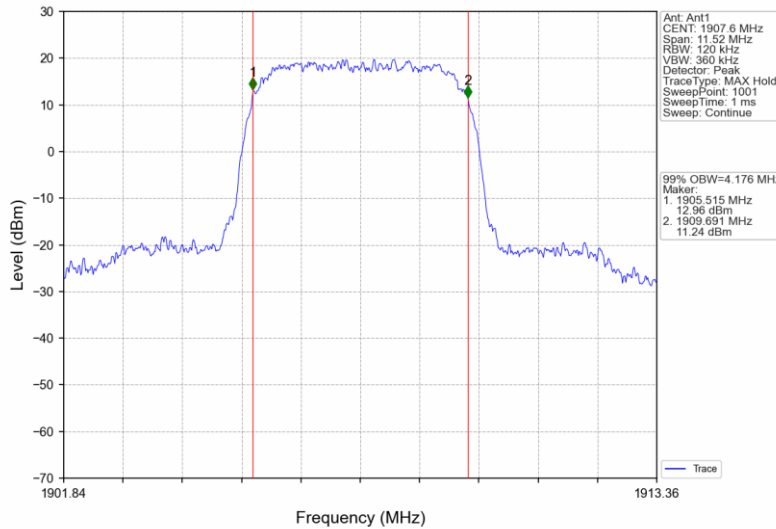
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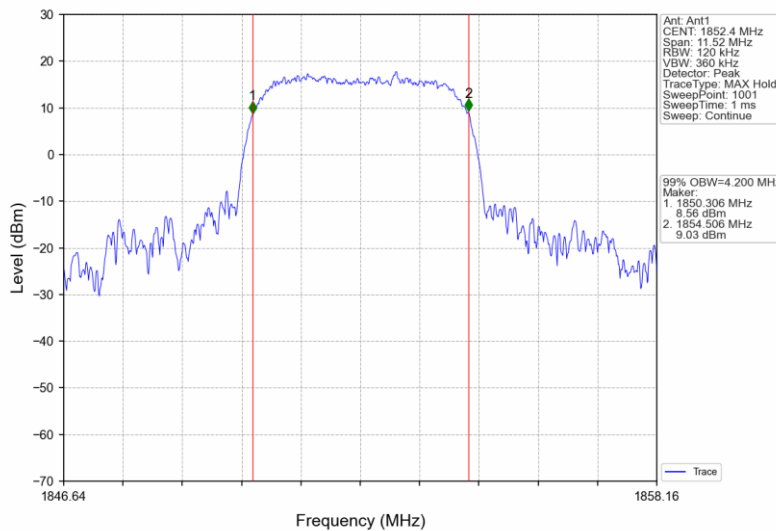
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BandII_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



BandII_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



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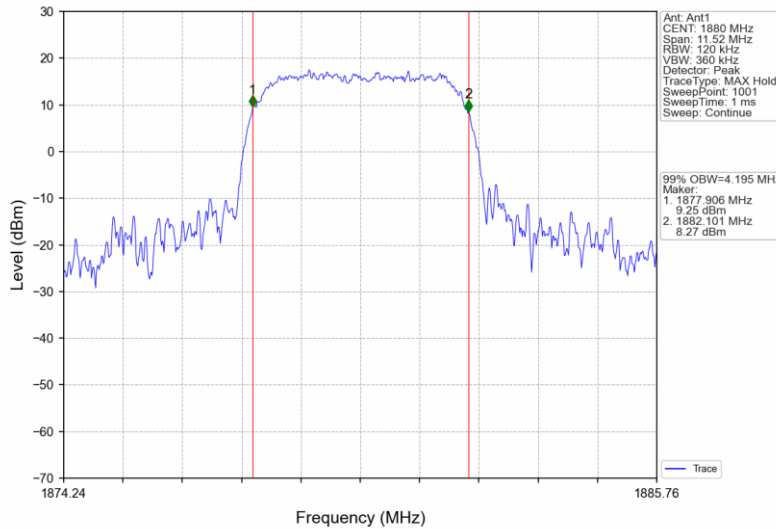
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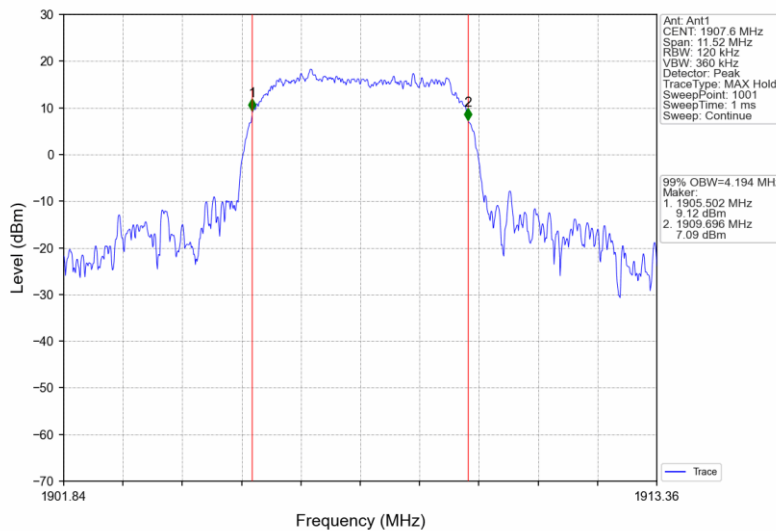
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BandII_HSDPA_MCH_1880MHz_Subtest 1_NTNV



BandII_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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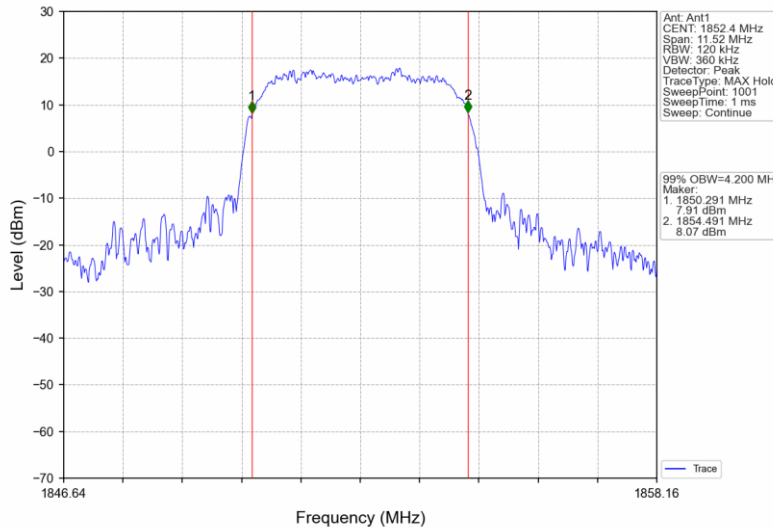
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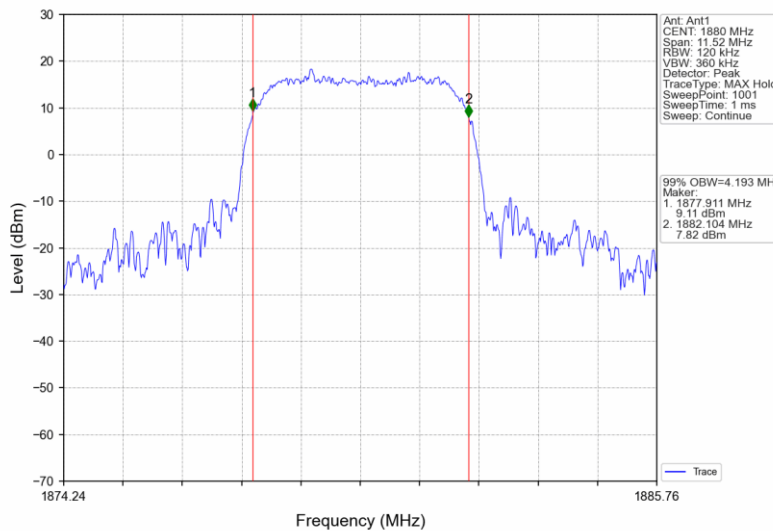
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BandII_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



BandII_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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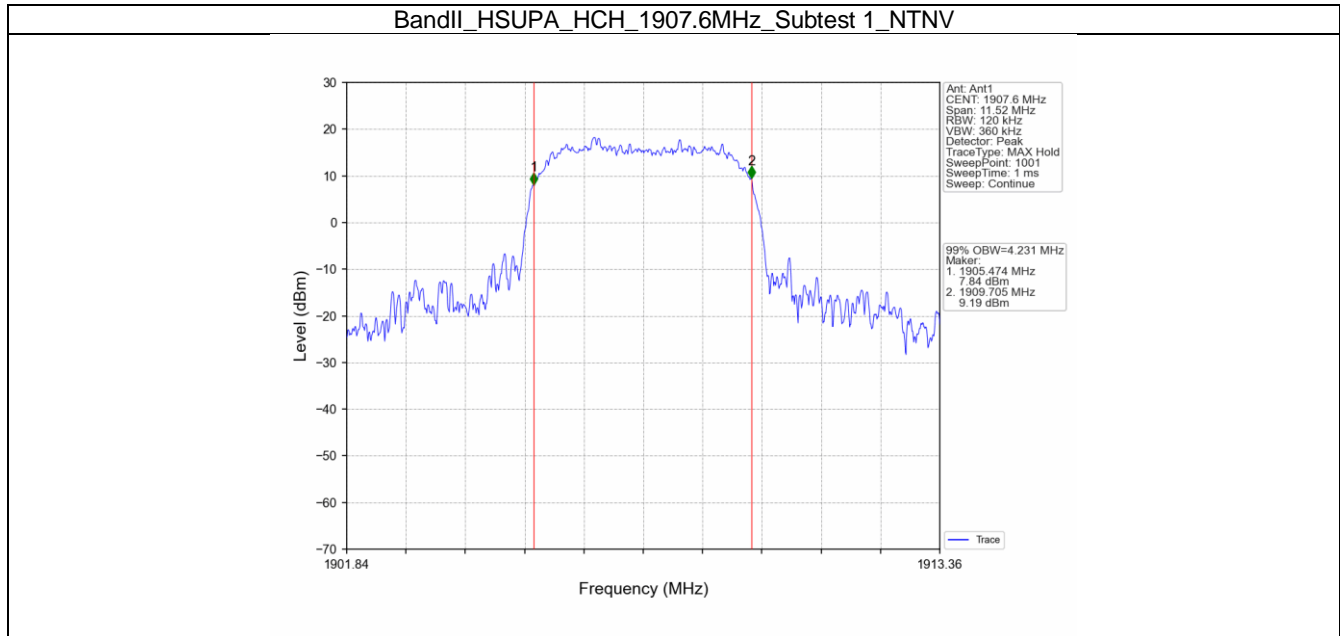


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3.2 BandII_XDB

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	4.727	/	Pass
			1907.6	4.757	/	Pass
	HSDPA	Subtest 1	1852.4	4.989	/	Pass
			1880	5.024	/	Pass
			1907.6	4.730	/	Pass
	HSUPA	Subtest 1	1852.4	4.742	/	Pass
			1880	4.737	/	Pass
			1907.6	5.561	/	Pass



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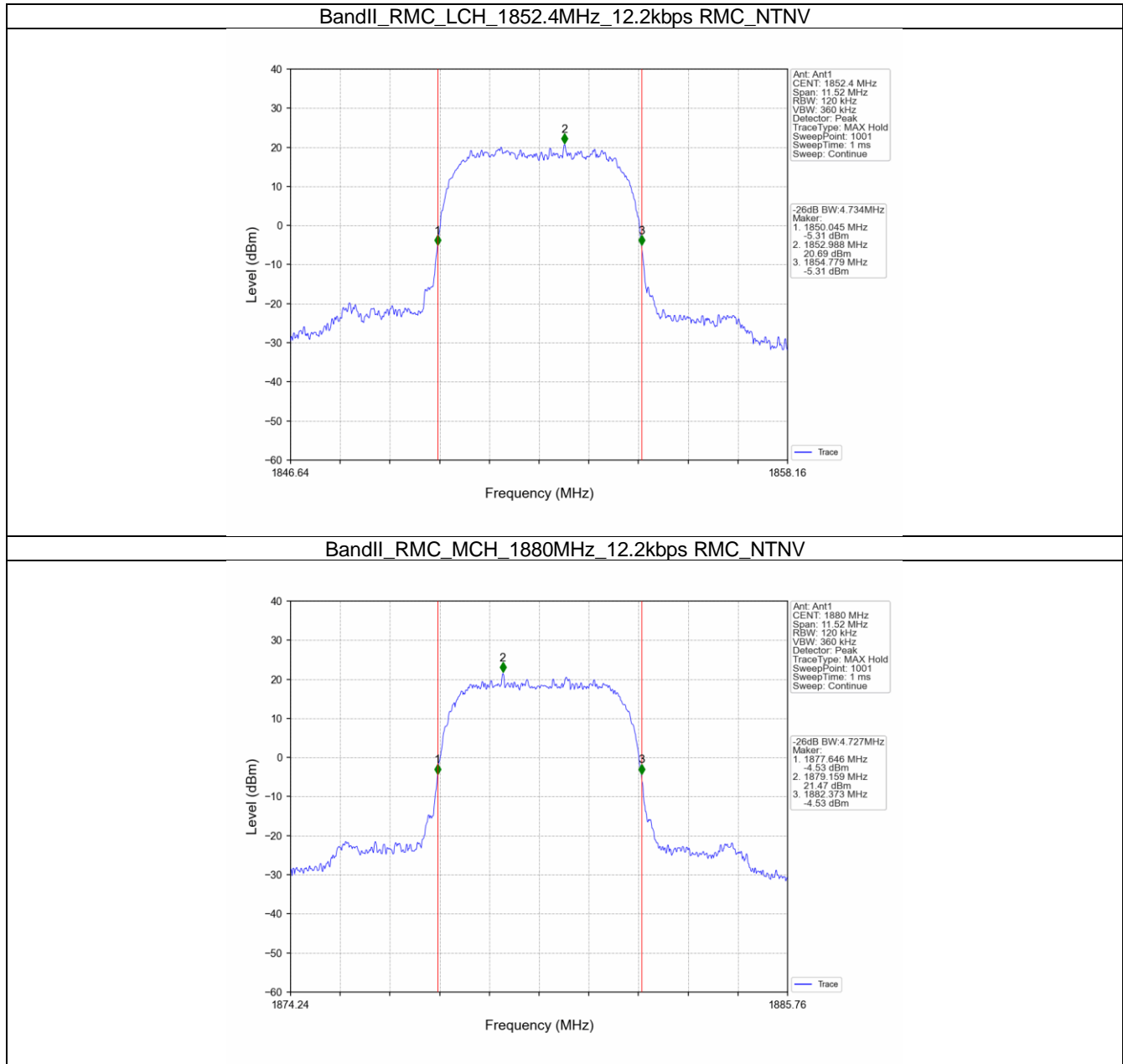
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3.2.2 Test Graph



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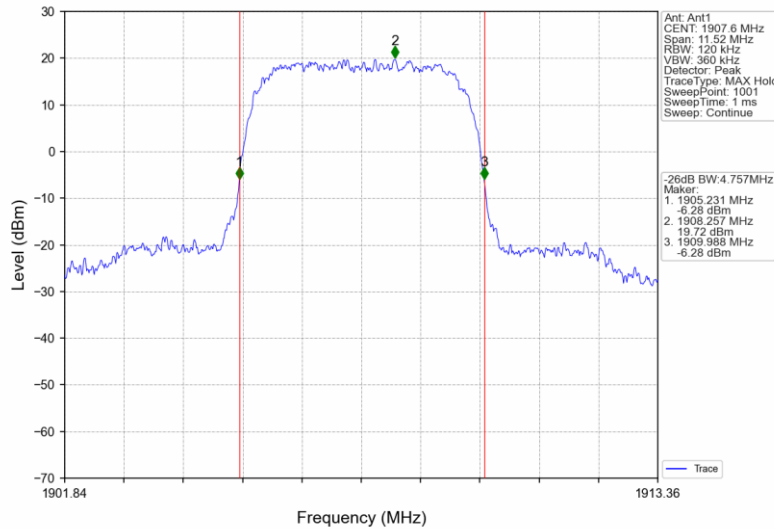
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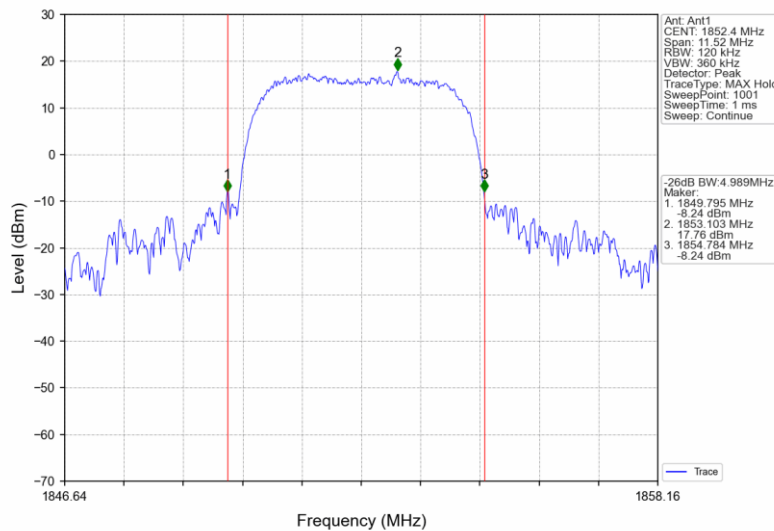
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BandII_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



BandII_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



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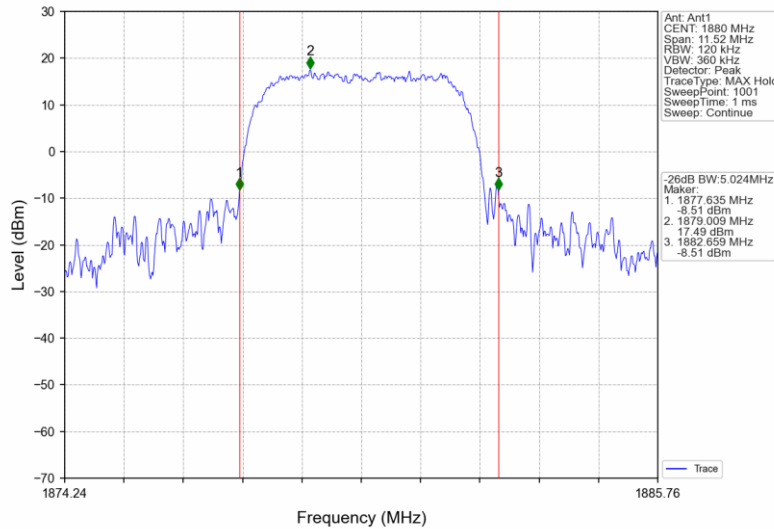
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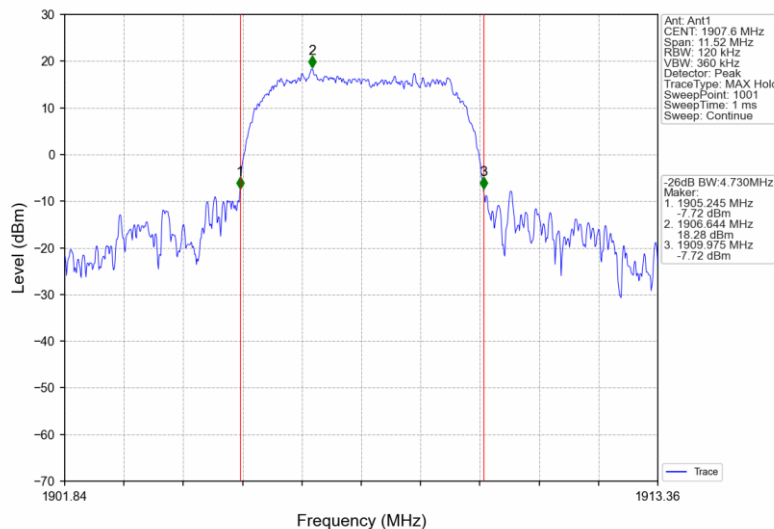
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BandII_HSDPA_MCH_1880MHz_Subtest 1_NTNV



BandII_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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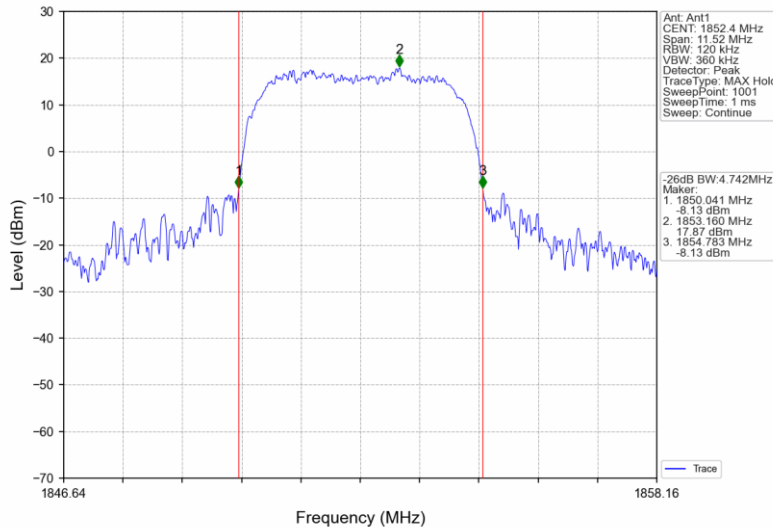
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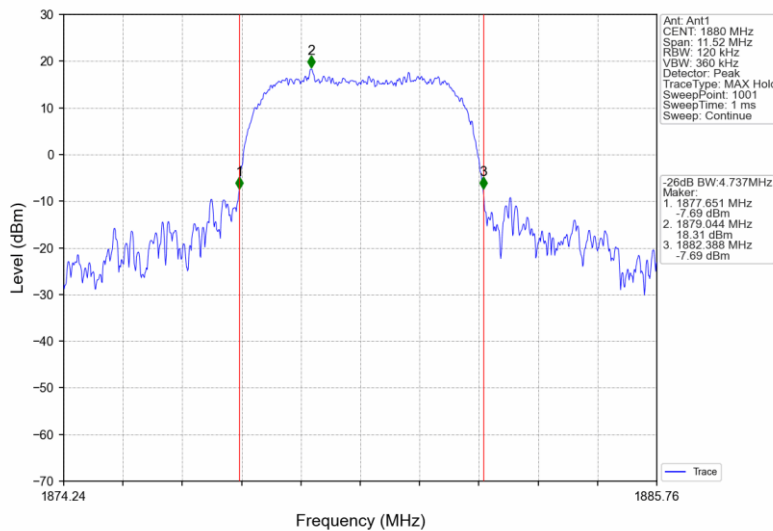
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BandII_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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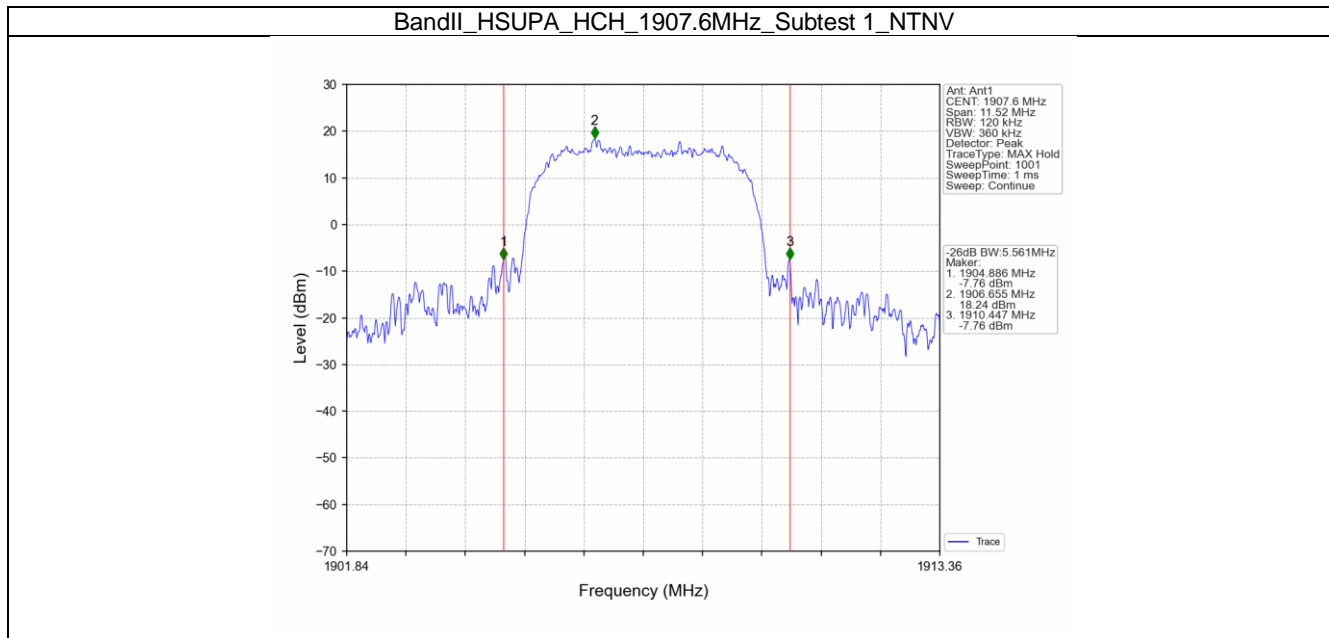
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4. Peak-Average Ratio

4.1 BandII

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	2.89	<=13	Pass
			1880	2.92	<=13	Pass
			1907.6	2.90	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.82	<=13	Pass
			1880	5.87	<=13	Pass
			1907.6	5.87	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.88	<=13	Pass
			1880	5.87	<=13	Pass
			1907.6	5.87	<=13	Pass



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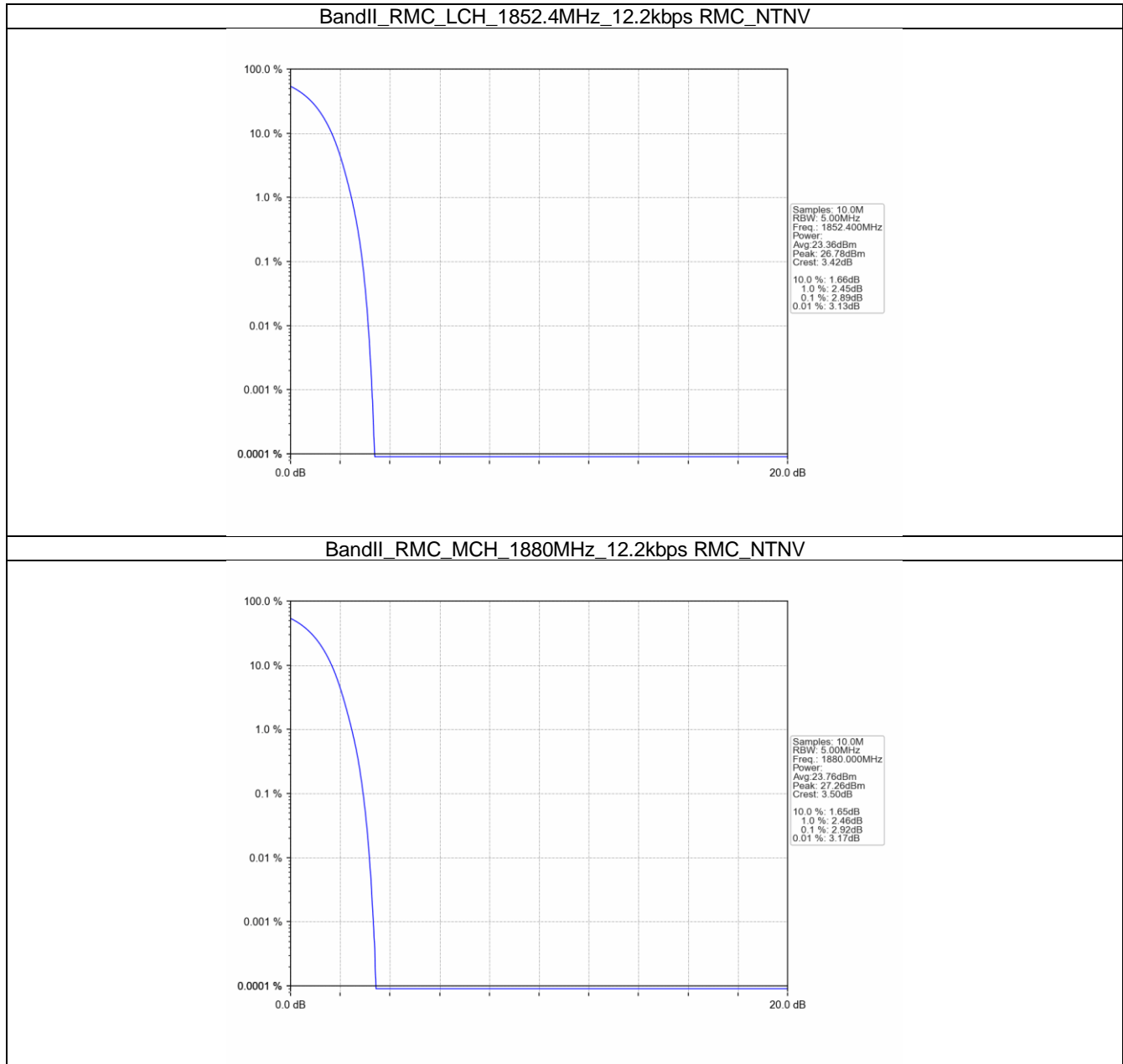
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4.1.2 Test Graph



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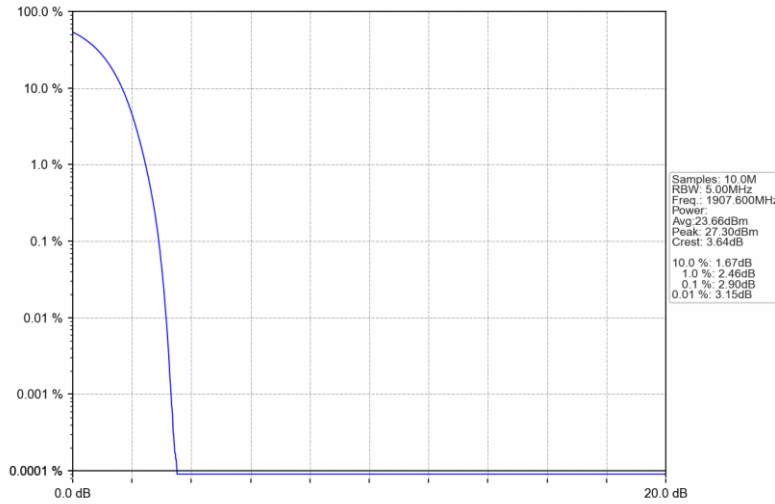
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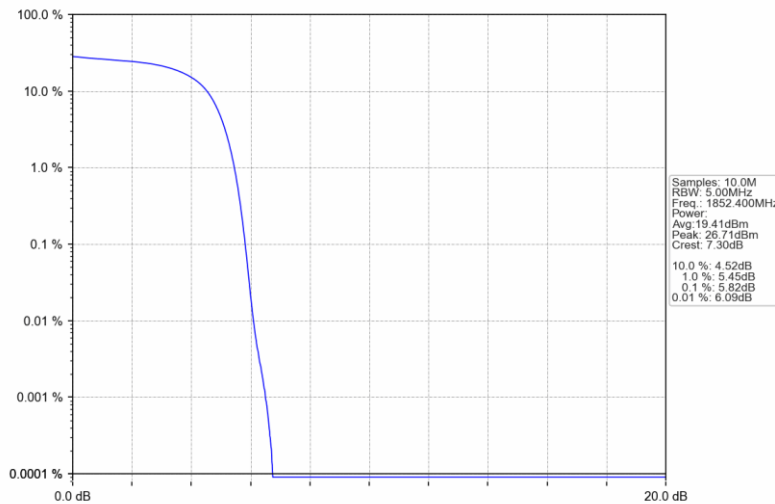
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BandII_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



BandII_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



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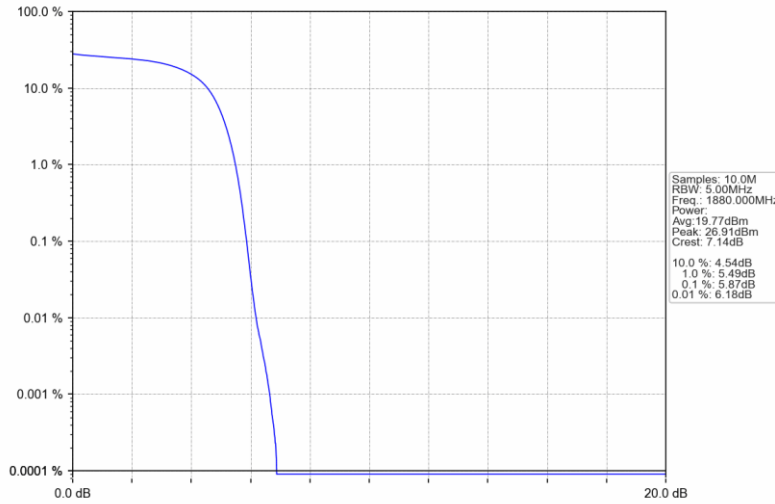
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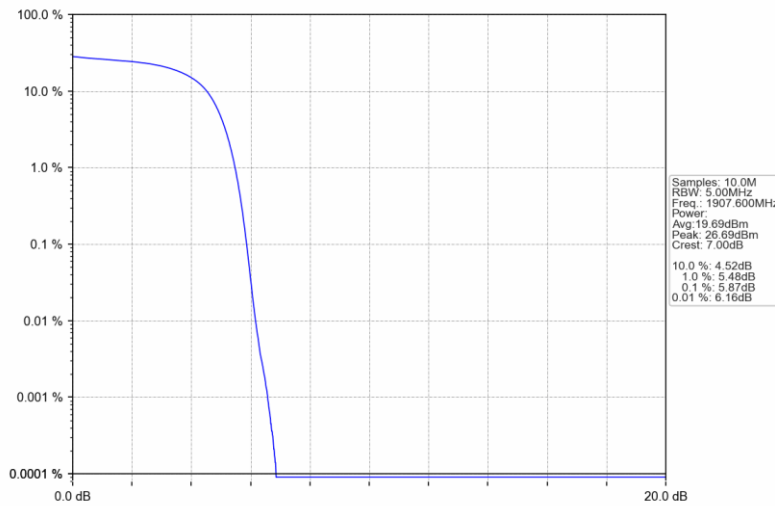
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BandII_HSDPA_MCH_1880MHz_Subtest 1_NTNV



BandII_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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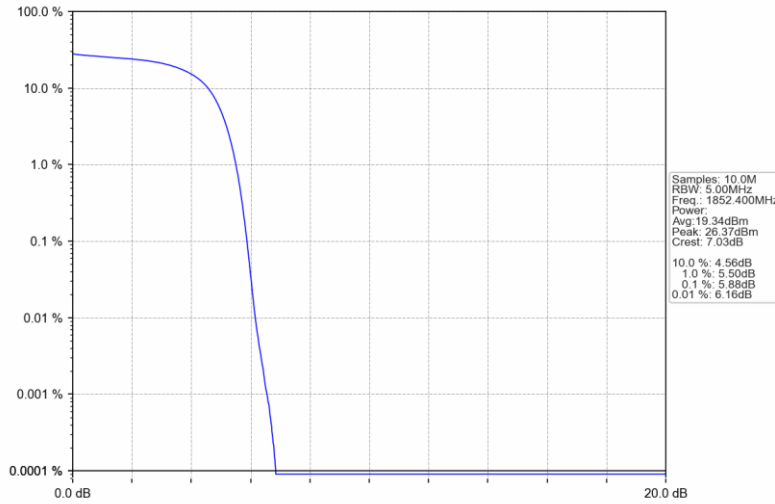
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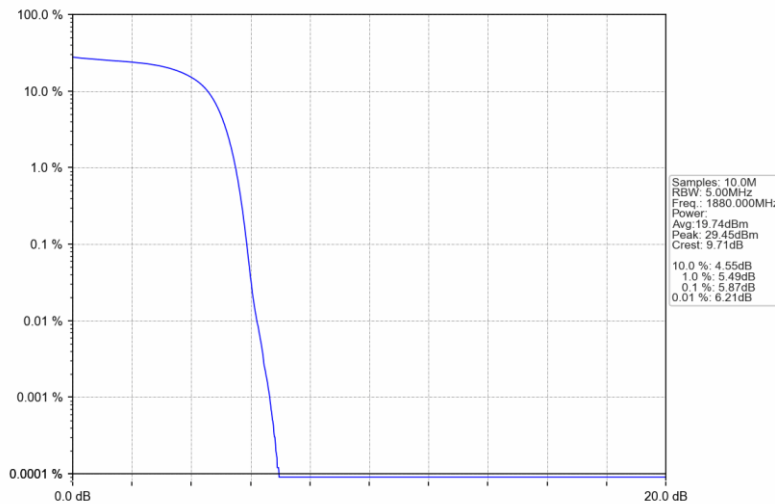
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BandII_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



BandII_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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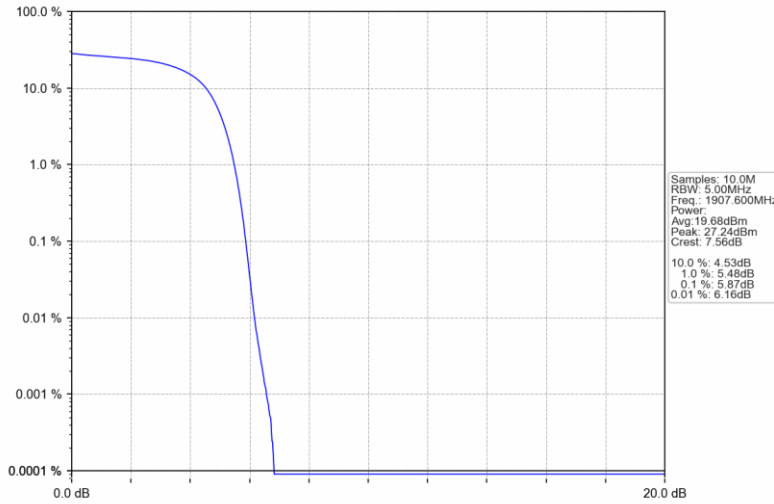
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BandII_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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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	
	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	



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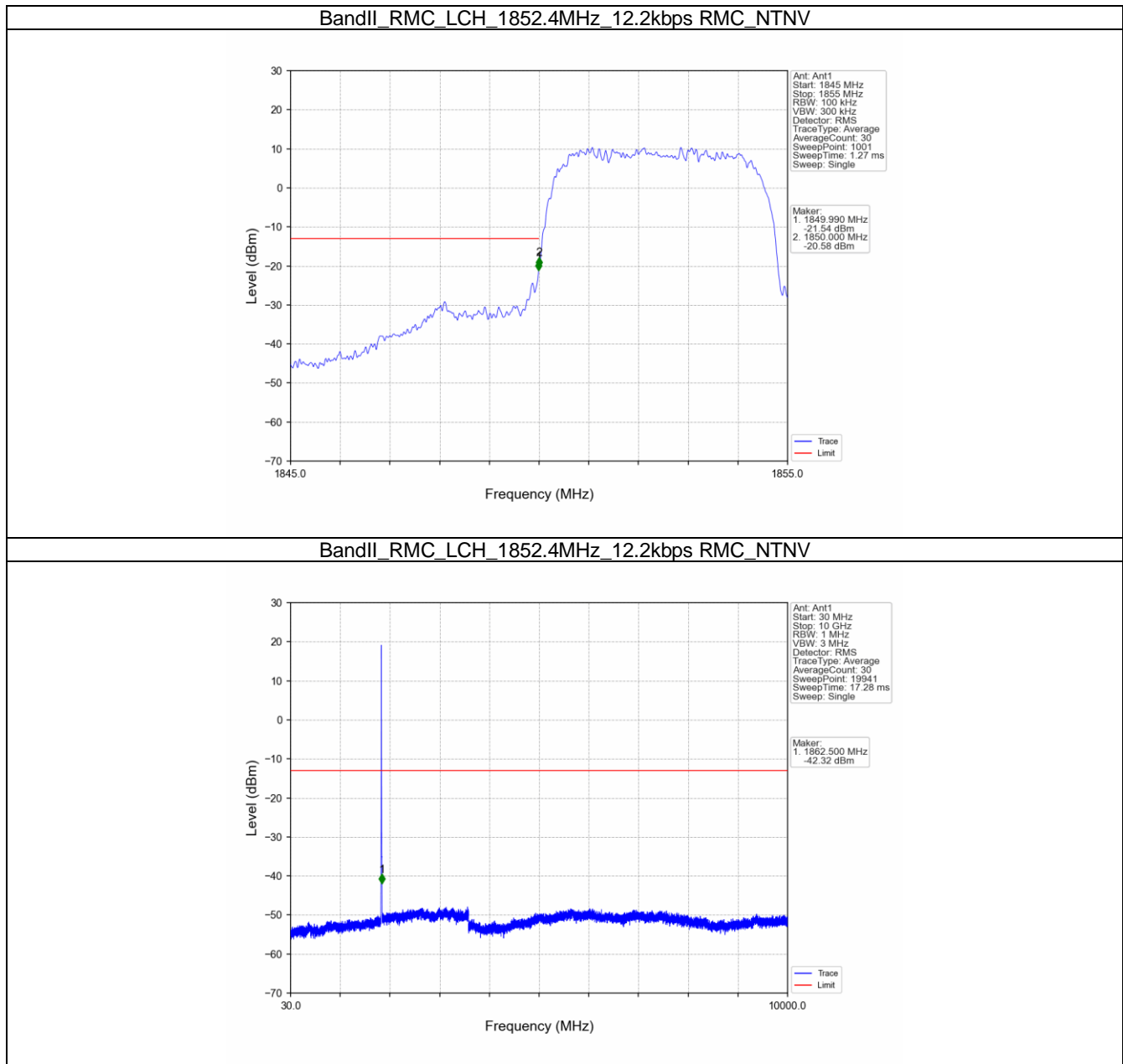
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5.1.2 Test Graph



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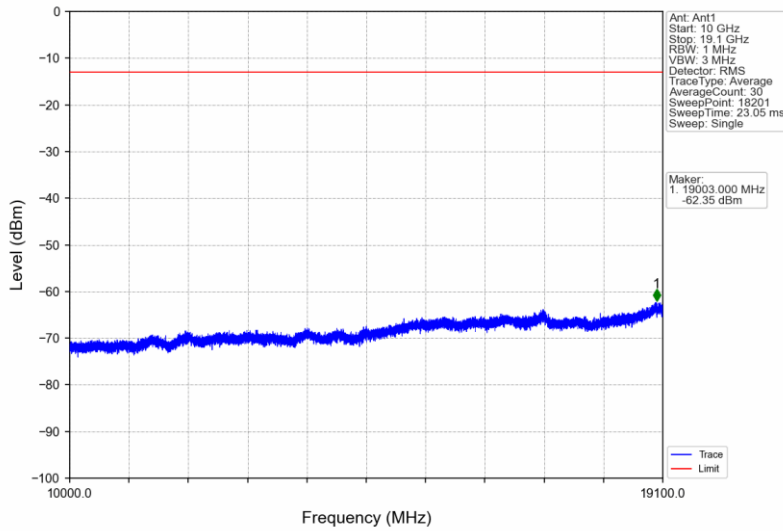
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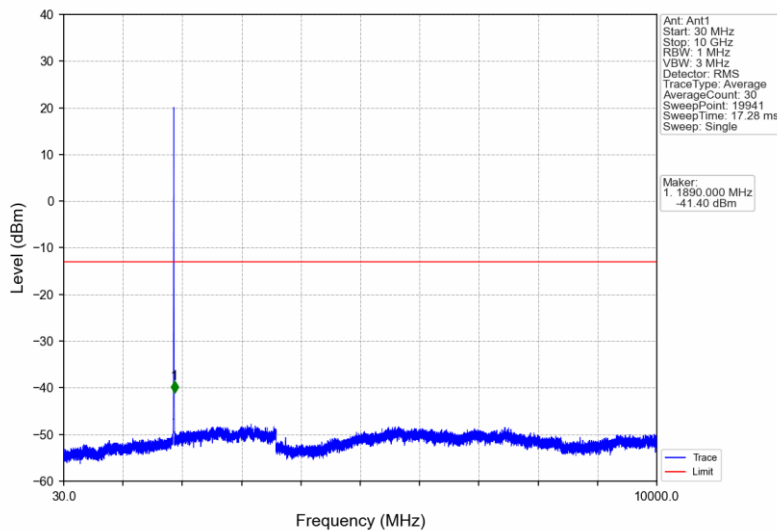
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BandII_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



BandII_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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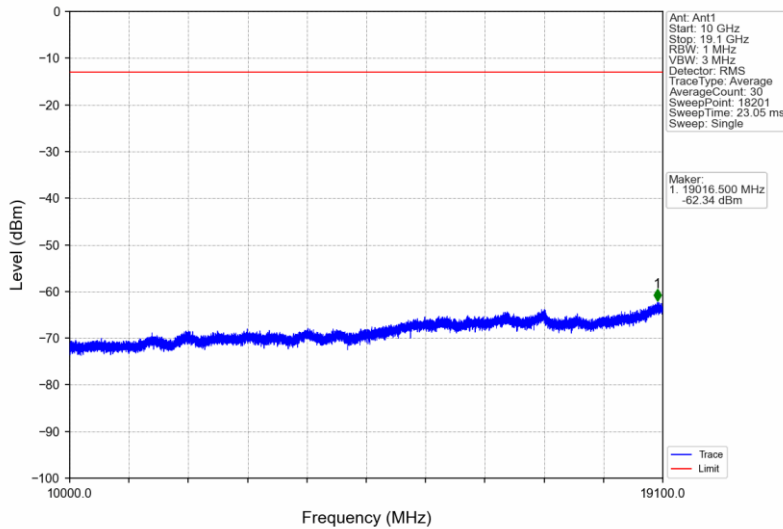
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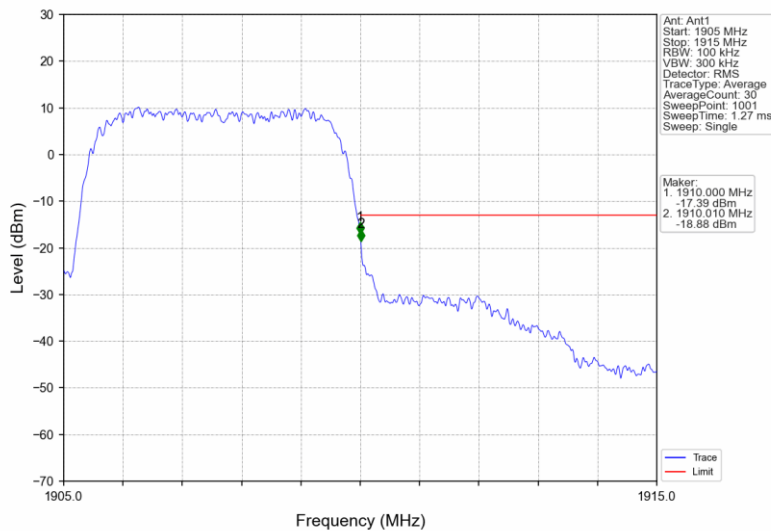
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BandII_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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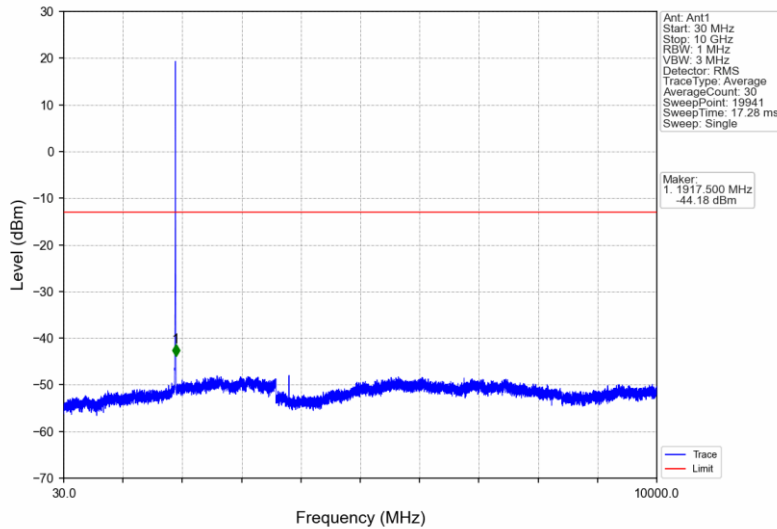
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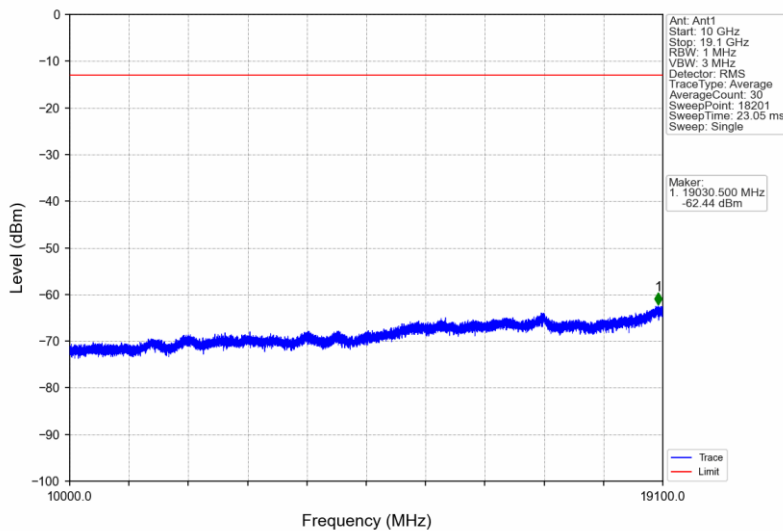
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BandII_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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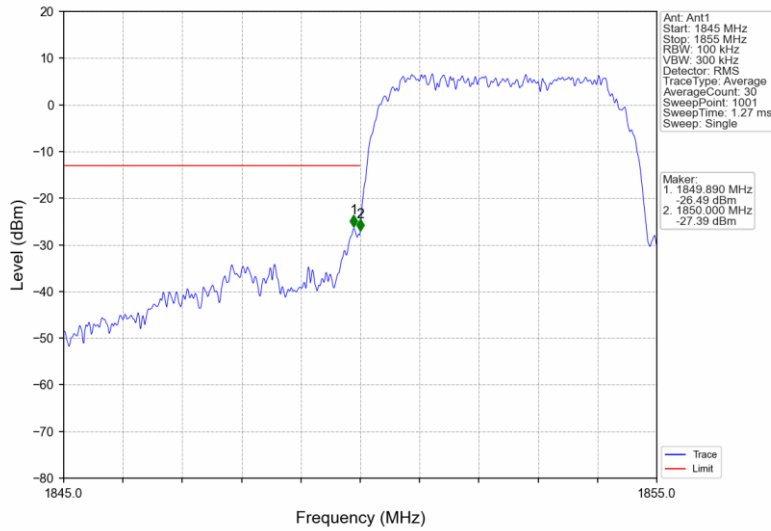
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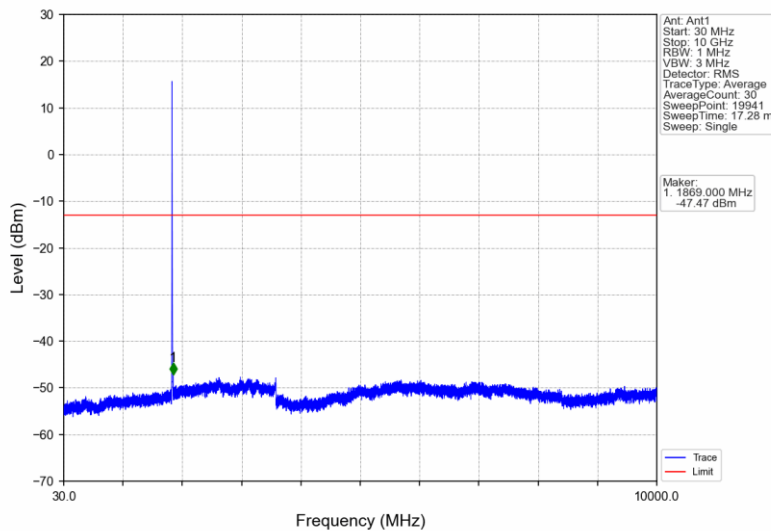
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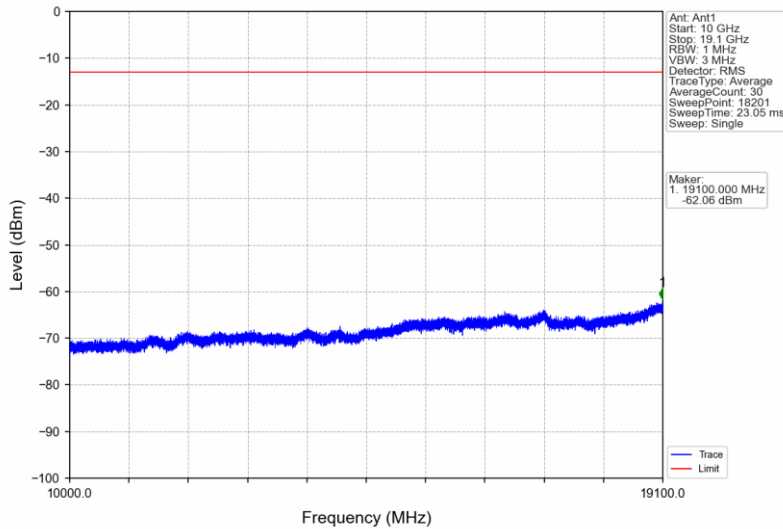
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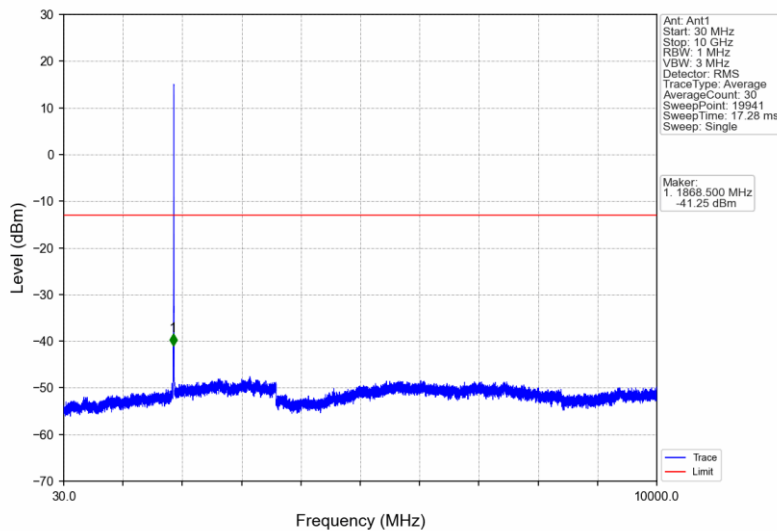
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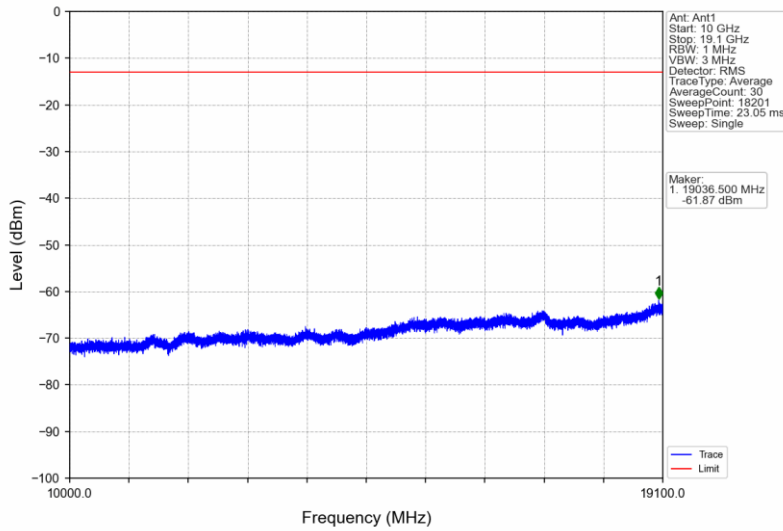
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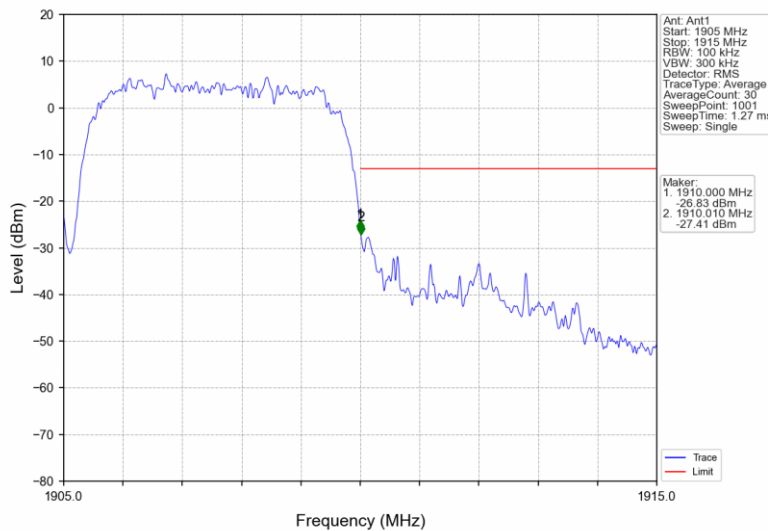
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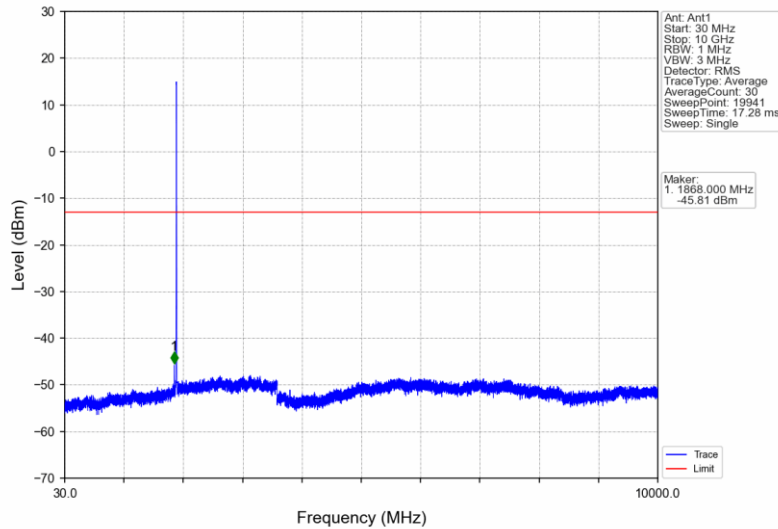
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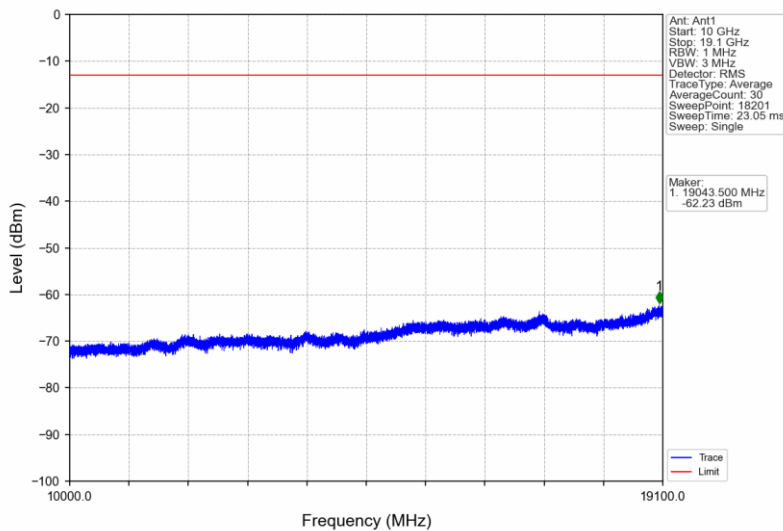
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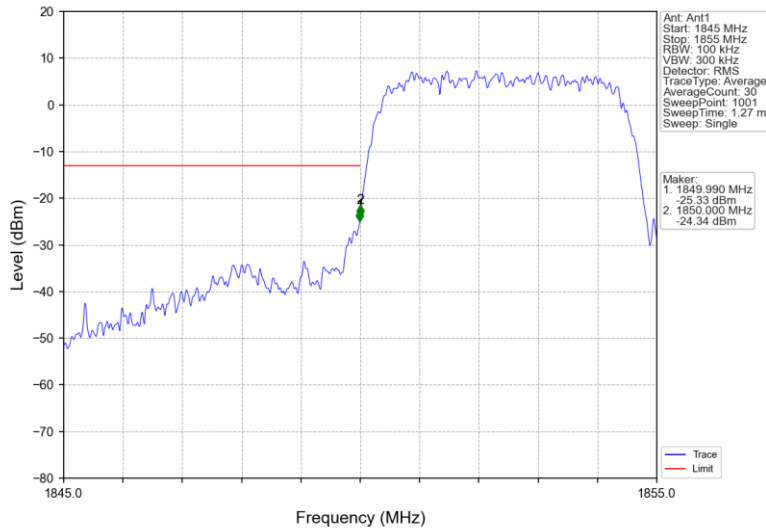
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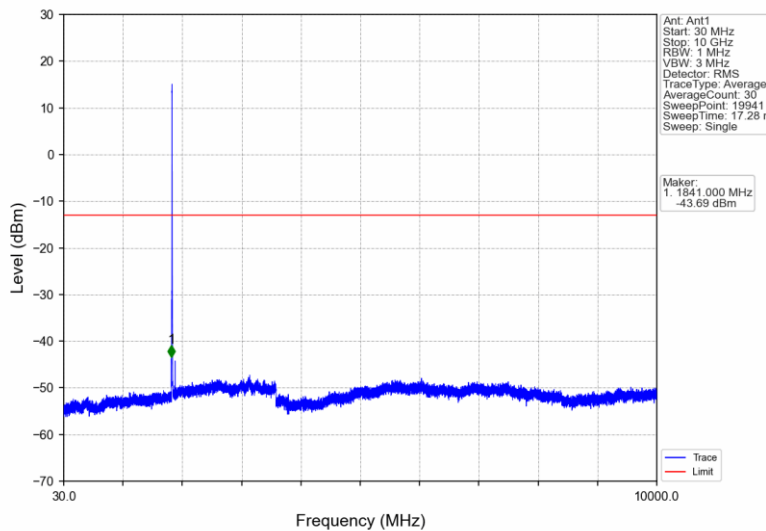
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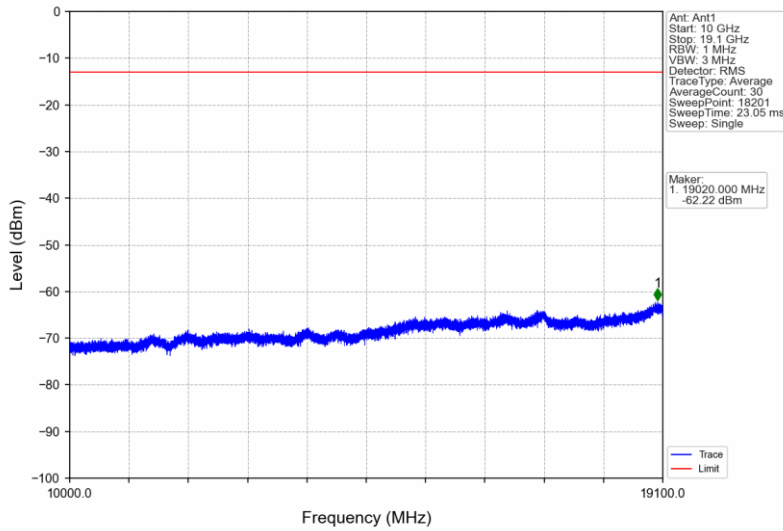
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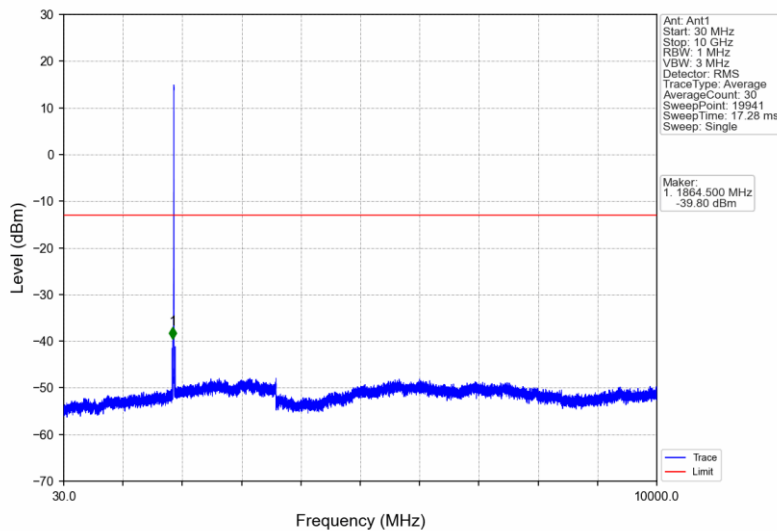
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BandII_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



BandII_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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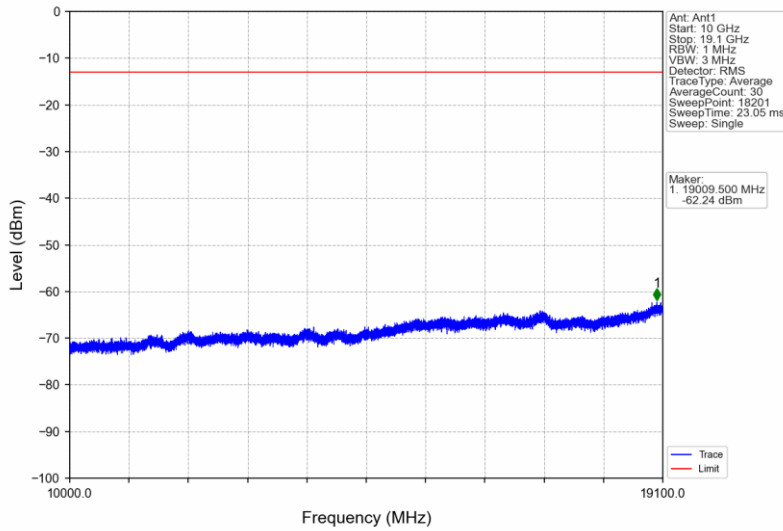
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Report No.: SZCR240100035201

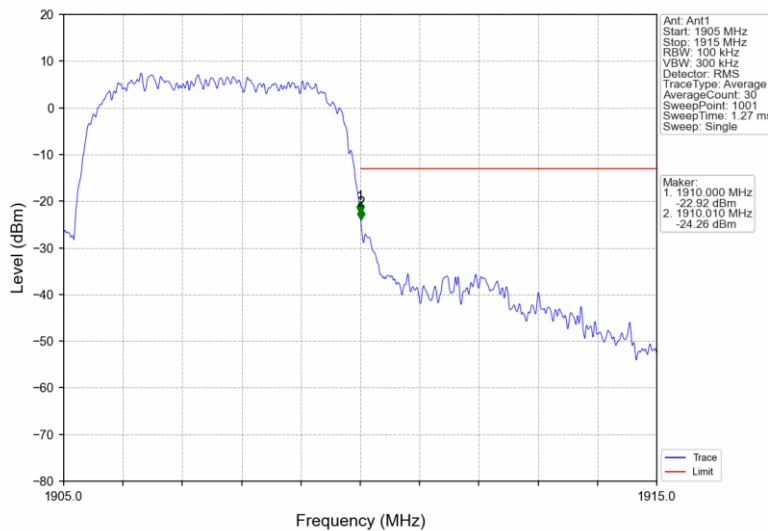
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BandII_HSUPA_MCH_1880MHz_Subtest 1_NTNV



BandII_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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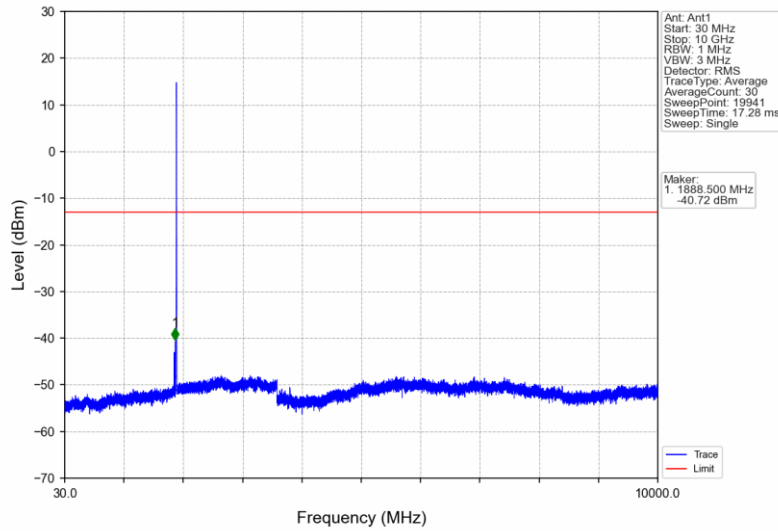
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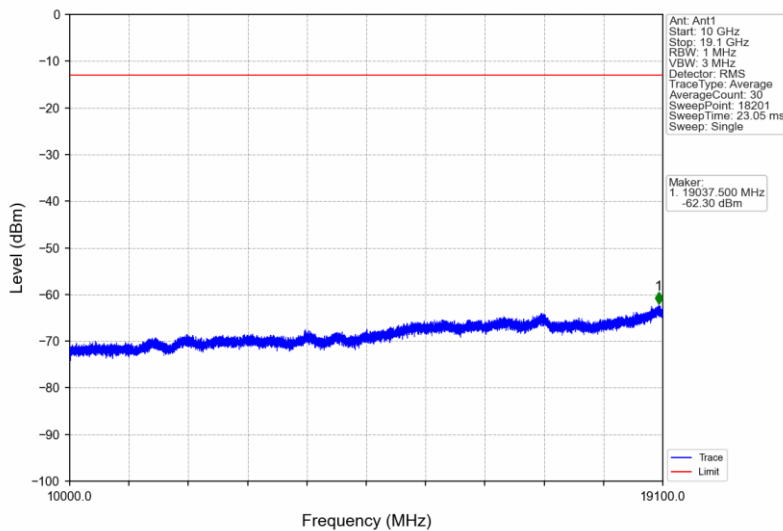
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BandII_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



BandII_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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6. Field Strength of Spurious Radiation

Test Band = BII _ TM1

Test Channel = low

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	54.91	29.03	-47.47	-58.79	-13.00	45.79	Horizontal
2	5557.2000	51.64	32.58	-47.04	-58.08	-13.00	45.08	Horizontal
3	7409.6000	45.36	36.29	-45.07	-58.68	-13.00	45.68	Horizontal
4	9262.0000	40.27	36.70	-42.42	-60.71	-13.00	47.71	Horizontal
5	11114.4000	37.31	39.62	-39.32	-57.65	-13.00	44.65	Horizontal
6	12966.8000	36.52	39.70	-38.63	-57.67	-13.00	44.67	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	53.41	29.03	-47.47	-60.29	-13.00	47.29	Vertical
2	5557.2000	48.80	32.58	-47.04	-60.92	-13.00	47.92	Vertical
3	7409.6000	43.61	36.29	-45.07	-60.43	-13.00	47.43	Vertical
4	9262.0000	40.47	36.70	-42.42	-60.51	-13.00	47.51	Vertical
5	11114.4000	37.34	39.62	-39.32	-57.62	-13.00	44.62	Vertical
6	12966.8000	36.46	39.70	-38.63	-57.73	-13.00	44.73	Vertical



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Test Band = BII _ 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	57.96	29.12	-47.32	-55.50	-13.00	42.50	Horizontal
2	5640.0000	55.08	32.54	-46.87	-54.51	-13.00	41.51	Horizontal
3	7520.0000	46.26	36.39	-45.00	-57.61	-13.00	44.61	Horizontal
4	9400.0000	40.31	37.02	-41.56	-59.49	-13.00	46.49	Horizontal
5	11280.0000	37.35	39.66	-39.28	-57.53	-13.00	44.53	Horizontal
6	13160.0000	36.31	39.99	-38.47	-57.43	-13.00	44.43	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	55.29	29.12	-47.32	-58.17	-13.00	45.17	Vertical
2	5640.0000	51.41	32.54	-46.87	-58.18	-13.00	45.18	Vertical
3	7520.0000	43.66	36.39	-45.00	-60.21	-13.00	47.21	Vertical
4	9400.0000	39.90	37.02	-41.56	-59.90	-13.00	46.90	Vertical
5	11280.0000	37.24	39.66	-39.28	-57.64	-13.00	44.64	Vertical
6	13160.0000	36.49	39.99	-38.47	-57.25	-13.00	44.25	Vertical



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Test Band = BII _ 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	60.79	29.20	-47.19	-52.46	-13.00	39.46	Horizontal
2	5722.8000	55.85	32.51	-46.78	-53.68	-13.00	40.68	Horizontal
3	7630.4000	45.99	36.35	-44.44	-57.36	-13.00	44.36	Horizontal
4	9538.0000	39.07	37.34	-41.98	-60.83	-13.00	47.83	Horizontal
5	11445.6000	37.46	39.69	-38.84	-56.95	-13.00	43.95	Horizontal
6	13353.2000	37.18	40.34	-38.61	-56.35	-13.00	43.35	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	56.92	29.20	-47.19	-56.33	-13.00	43.33	Vertical
2	5722.8000	52.27	32.51	-46.78	-57.26	-13.00	44.26	Vertical
3	7630.4000	43.84	36.35	-44.44	-59.51	-13.00	46.51	Vertical
4	9538.0000	39.69	37.34	-41.98	-60.21	-13.00	47.21	Vertical
5	11445.6000	36.94	39.69	-38.84	-57.47	-13.00	44.47	Vertical
6	13353.2000	36.65	40.34	-38.61	-56.88	-13.00	43.88	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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