

Appendix G for KSCR2205000668AT-FCC WCDMA Band2

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band2_EIRP

1.1.1 Test Result

ENV	Band: 2							Verdict	
	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)			
	Network	Subset				Result	Limit		
NTNV	RMC	12.2kbps RMC	1852.4	23.45	-0.56	22.89	<=33.01	Pass	
			1880	23.49	-0.56	22.93	<=33.01	Pass	
			1907.6	23.92	-0.56	23.36	<=33.01	Pass	
	HSDPA	Subtest 1	1852.4	21.59	-0.56	21.03	<=33.01	Pass	
			1852.4	21.64	-0.56	21.08	<=33.01	Pass	
			1852.4	21.63	-0.56	21.07	<=33.01	Pass	
			1852.4	21.57	-0.56	21.01	<=33.01	Pass	
		Subtest 2	1880	21.50	-0.56	20.94	<=33.01	Pass	
			1880	21.50	-0.56	20.94	<=33.01	Pass	
			1880	21.49	-0.56	20.93	<=33.01	Pass	
			1880	21.42	-0.56	20.86	<=33.01	Pass	
		Subtest 3	1907.6	21.78	-0.56	21.22	<=33.01	Pass	
			1907.6	21.80	-0.56	21.24	<=33.01	Pass	
			1907.6	21.78	-0.56	21.22	<=33.01	Pass	
			1907.6	21.74	-0.56	21.18	<=33.01	Pass	
		HSUPA	Subtest 1	1852.4	19.74	-0.56	19.18	<=33.01	Pass
				1852.4	19.50	-0.56	18.94	<=33.01	Pass
				1852.4	19.83	-0.56	19.27	<=33.01	Pass
				1852.4	19.02	-0.56	18.46	<=33.01	Pass
	1852.4			19.62	-0.56	19.06	<=33.01	Pass	
	Subtest 2		1880	19.66	-0.56	19.10	<=33.01	Pass	
			1880	19.01	-0.56	18.45	<=33.01	Pass	
			1880	19.48	-0.56	18.92	<=33.01	Pass	
			1880	19.05	-0.56	18.49	<=33.01	Pass	
			1880	19.53	-0.56	18.97	<=33.01	Pass	
	Subtest 3		1907.6	19.53	-0.56	18.97	<=33.01	Pass	
			1907.6	19.25	-0.56	18.69	<=33.01	Pass	
			1907.6	19.08	-0.56	18.52	<=33.01	Pass	
			1907.6	19.96	-0.56	19.40	<=33.01	Pass	
			1907.6	19.77	-0.56	19.21	<=33.01	Pass	

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Band2

2.1.1 Test Result



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Band: 2											
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict				
					Result	Limit					
RMC	1852.4	20	3.46	-10.450	-0.0056	-2.5 to 2.5	Pass				
			3.8	-11.408	-0.0062	-2.5 to 2.5	Pass				
			4.35	-12.925	-0.0070	-2.5 to 2.5	Pass				
		1880	-30	3.8	-14.527	-0.0078	-2.5 to 2.5	Pass			
				-20	3.8	-12.445	-0.0067	-2.5 to 2.5	Pass		
				-10	3.8	-12.710	-0.0069	-2.5 to 2.5	Pass		
			1907.6	0	3.8	-14.033	-0.0076	-2.5 to 2.5	Pass		
					10	3.8	-13.318	-0.0072	-2.5 to 2.5	Pass	
					30	3.8	-12.689	-0.0069	-2.5 to 2.5	Pass	
	1852.4			40	3.8	-12.932	-0.0070	-2.5 to 2.5	Pass		
					50	3.8	-13.390	-0.0072	-2.5 to 2.5	Pass	
					20	3.46	-10.300	-0.0055	-2.5 to 2.5	Pass	
		1880		20	3.8	-12.481	-0.0066	-2.5 to 2.5	Pass		
					4.35	-13.962	-0.0074	-2.5 to 2.5	Pass		
					-30	3.8	-12.896	-0.0069	-2.5 to 2.5	Pass	
			1907.6	-20	3.8	-9.592	-0.0051	-2.5 to 2.5	Pass		
					-10	3.8	-10.185	-0.0054	-2.5 to 2.5	Pass	
					0	3.8	-10.865	-0.0058	-2.5 to 2.5	Pass	
	1852.4			10	3.8	-12.674	-0.0067	-2.5 to 2.5	Pass		
					30	3.8	-13.032	-0.0069	-2.5 to 2.5	Pass	
					40	3.8	-13.003	-0.0069	-2.5 to 2.5	Pass	
		1880		50	3.8	-14.505	-0.0077	-2.5 to 2.5	Pass		
					20	3.46	-14.334	-0.0075	-2.5 to 2.5	Pass	
					3.8	-13.497	-0.0071	-2.5 to 2.5	Pass		
			HSDPA	1852.4	20	4.35	-15.957	-0.0084	-2.5 to 2.5	Pass	
						-30	3.8	-9.356	-0.0049	-2.5 to 2.5	Pass
						-20	3.8	-11.365	-0.0060	-2.5 to 2.5	Pass
	1880				-10	3.8	-12.503	-0.0066	-2.5 to 2.5	Pass	
						0	3.8	-11.687	-0.0061	-2.5 to 2.5	Pass
						10	3.8	-12.567	-0.0066	-2.5 to 2.5	Pass
		1852.4			30	3.8	-12.667	-0.0066	-2.5 to 2.5	Pass	
						40	3.8	-13.726	-0.0072	-2.5 to 2.5	Pass
						50	3.8	-13.998	-0.0073	-2.5 to 2.5	Pass
			1880	20	3.46	-13.053	-0.0070	-2.5 to 2.5	Pass		
					3.8	-11.680	-0.0063	-2.5 to 2.5	Pass		
					4.35	-10.557	-0.0057	-2.5 to 2.5	Pass		
1852.4	-30			3.8	-9.248	-0.0050	-2.5 to 2.5	Pass			
				-20	3.8	-9.298	-0.0050	-2.5 to 2.5	Pass		
				-10	3.8	-9.913	-0.0054	-2.5 to 2.5	Pass		
	1880	0		3.8	-6.666	-0.0036	-2.5 to 2.5	Pass			
				10	3.8	-7.846	-0.0042	-2.5 to 2.5	Pass		
				30	3.8	-10.793	-0.0058	-2.5 to 2.5	Pass		
		1852.4	40	3.8	-12.445	-0.0067	-2.5 to 2.5	Pass			
				50	3.8	-6.552	-0.0035	-2.5 to 2.5	Pass		
				20	3.46	-14.770	-0.0079	-2.5 to 2.5	Pass		
1880			20	3.8	-13.254	-0.0071	-2.5 to 2.5	Pass			
				4.35	-14.455	-0.0077	-2.5 to 2.5	Pass			
				-30	3.8	-13.397	-0.0071	-2.5 to 2.5	Pass		
	1852.4		-20	3.8	-13.361	-0.0071	-2.5 to 2.5	Pass			
				-10	3.8	-14.076	-0.0075	-2.5 to 2.5	Pass		
				0	3.8	-13.719	-0.0073	-2.5 to 2.5	Pass		

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		10	3.8	-11.680	-0.0062	-2.5 to 2.5	Pass
		30	3.8	-13.025	-0.0069	-2.5 to 2.5	Pass
		40	3.8	-10.364	-0.0055	-2.5 to 2.5	Pass
		50	3.8	-10.822	-0.0058	-2.5 to 2.5	Pass
	1907.6	20	3.46	-17.080	-0.0090	-2.5 to 2.5	Pass
			3.8	-18.890	-0.0099	-2.5 to 2.5	Pass
			4.35	-17.402	-0.0091	-2.5 to 2.5	Pass
		-30	3.8	-20.270	-0.0106	-2.5 to 2.5	Pass
		-20	3.8	-17.023	-0.0089	-2.5 to 2.5	Pass
		-10	3.8	-18.439	-0.0097	-2.5 to 2.5	Pass
		0	3.8	-15.728	-0.0082	-2.5 to 2.5	Pass
		10	3.8	-19.577	-0.0103	-2.5 to 2.5	Pass
		30	3.8	-20.864	-0.0109	-2.5 to 2.5	Pass
		40	3.8	-13.847	-0.0073	-2.5 to 2.5	Pass
50	3.8	-18.382	-0.0096	-2.5 to 2.5	Pass		
HSUPA	1852.4	20	3.46	-14.105	-0.0076	-2.5 to 2.5	Pass
			3.8	-15.886	-0.0086	-2.5 to 2.5	Pass
			4.35	-15.872	-0.0086	-2.5 to 2.5	Pass
		-30	3.8	-15.528	-0.0084	-2.5 to 2.5	Pass
		-20	3.8	-14.584	-0.0079	-2.5 to 2.5	Pass
		-10	3.8	-14.963	-0.0081	-2.5 to 2.5	Pass
		0	3.8	-16.129	-0.0087	-2.5 to 2.5	Pass
		10	3.8	-14.577	-0.0079	-2.5 to 2.5	Pass
		30	3.8	-13.819	-0.0075	-2.5 to 2.5	Pass
		40	3.8	-14.133	-0.0076	-2.5 to 2.5	Pass
	50	3.8	-14.849	-0.0080	-2.5 to 2.5	Pass	
	1880	20	3.46	-9.062	-0.0048	-2.5 to 2.5	Pass
			3.8	-5.114	-0.0027	-2.5 to 2.5	Pass
			4.35	-9.520	-0.0051	-2.5 to 2.5	Pass
		-30	3.8	-9.184	-0.0049	-2.5 to 2.5	Pass
		-20	3.8	-10.021	-0.0053	-2.5 to 2.5	Pass
		-10	3.8	-10.307	-0.0055	-2.5 to 2.5	Pass
		0	3.8	-12.724	-0.0068	-2.5 to 2.5	Pass
		10	3.8	-11.065	-0.0059	-2.5 to 2.5	Pass
		30	3.8	-11.337	-0.0060	-2.5 to 2.5	Pass
		40	3.8	-13.182	-0.0070	-2.5 to 2.5	Pass
	50	3.8	-14.784	-0.0079	-2.5 to 2.5	Pass	
1907.6	20	3.46	-13.847	-0.0073	-2.5 to 2.5	Pass	
		3.8	-14.899	-0.0078	-2.5 to 2.5	Pass	
		4.35	-12.603	-0.0066	-2.5 to 2.5	Pass	
	-30	3.8	-12.081	-0.0063	-2.5 to 2.5	Pass	
	-20	3.8	-11.895	-0.0062	-2.5 to 2.5	Pass	
	-10	3.8	-12.946	-0.0068	-2.5 to 2.5	Pass	
	0	3.8	-15.364	-0.0081	-2.5 to 2.5	Pass	
	10	3.8	-14.355	-0.0075	-2.5 to 2.5	Pass	
	30	3.8	-12.510	-0.0066	-2.5 to 2.5	Pass	
	40	3.8	-10.936	-0.0057	-2.5 to 2.5	Pass	
50	3.8	-12.052	-0.0063	-2.5 to 2.5	Pass		

3. Modulation Characteristics

3.1 Band2



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3.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1880	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1880	Refer To Test Graph		Pass
	HSUPA	Subtest 1	1880	Refer To Test Graph		Pass

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3.1.2 Test Graph

Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

Statistics @ Pre. Slot 0	Current	Average	Maximum	StdDev.
Power [dBm]	NCAP	NCAP	NCAP	NCAP
Power Steps [dB]	NCAP	NCAP	NCAP	NCAP
EVM RMS [%]	NCAP	NCAP	NCAP	NCAP
EVM Peak [%]	NCAP	NCAP	NCAP	NCAP
Magnitude Error RMS [%]	NCAP	NCAP	NCAP	NCAP
Magnitude Error Peak [%]	NCAP	NCAP	NCAP	NCAP
Phase Error RMS [°]	NCAP	NCAP	NCAP	NCAP
Phase Error Peak [°]	NCAP	NCAP	NCAP	NCAP
IQ Origin Offset [dB]	NCAP	NCAP	NCAP	NCAP
IQ Imbalance [dB]	NCAP	NCAP	NCAP	NCAP
CF Error [Hz]	NCAP	NCAP	NCAP	NCAP
Trans. Time Error [Chip]	NCAP	NCAP	NCAP	NCAP
Phase Disc. [°]	NCAP	NCAP	NCAP	NCAP
OBW [MHz]	NCAP	NCAP	NCAP	NCAP

WCDMA

Multi Evaluation
RDY

RF Settings

Trigger

Display

Signaling Parameter

WCDMA 1 Signaling
ON

Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV

Statistics @ Pre. ...	Current	StdDev
Power [dBm]	21.11	0.08
Power Steps [dB]	NCAP	NCAP
EVM RMS [%]	7.65	0.15
EVM Peak [%]	63.67	1.49
Magn. Error RMS [%]	7.43	0.15
Magn. Error Peak [%]	63.53	1.49
Phase Error RMS [°]	1.82	0.23
Phase Error Peak [°]	35.65	20.89
IQ Origin Offset [dB]	-55.06	5.48
IQ Imbalance [dB]	-70.70	4.49
CF Error [Hz]	-14.33	2.36
Phase Disc. [°]	NCAP	

WCDMA

Multi Evaluation
RDY

RF Settings

Trigger

Display

Signaling Parameter

WCDMA 1 Signaling
ON

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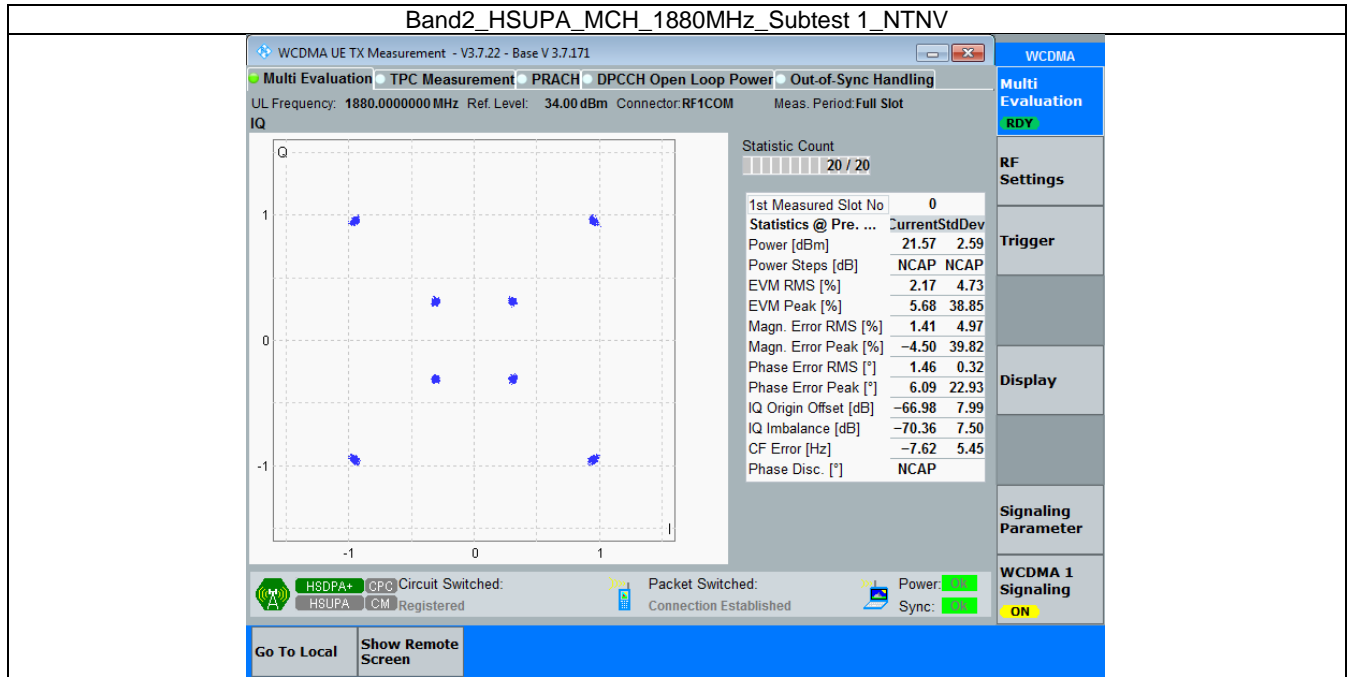
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4. 99% & 26dB Bandwidth

4.1 Band2_OBW

4.1.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.178	Pass
			1880	4.180	Pass
			1907.6	4.185	Pass
	HSDPA	Subtest 1	1852.4	4.242	Pass
			1880	4.229	Pass
			1907.6	4.227	Pass
	HSUPA	Subtest 1	1852.4	4.224	Pass
			1880	4.247	Pass
			1907.6	4.211	Pass

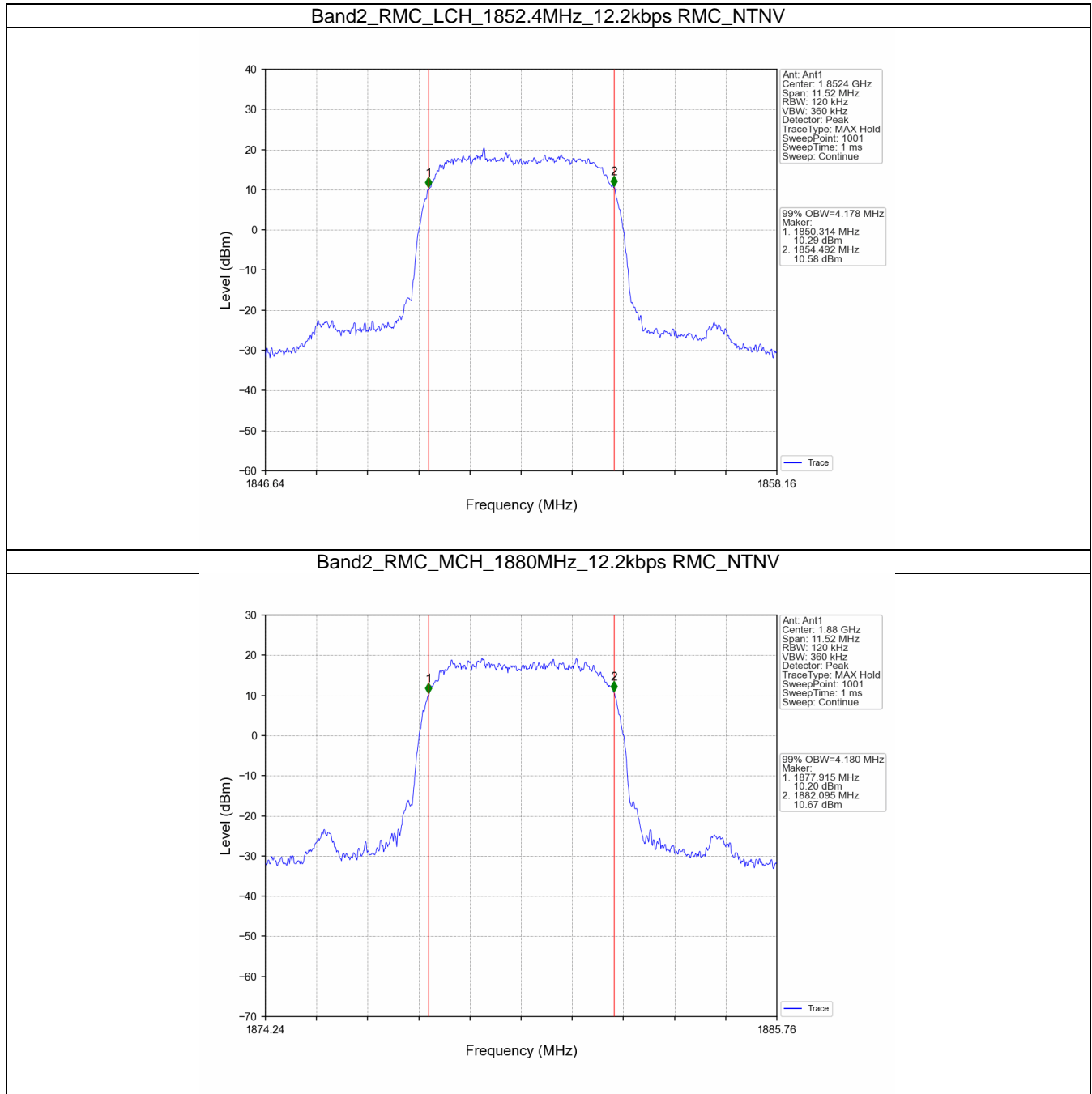


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4.1.2 Test Graph

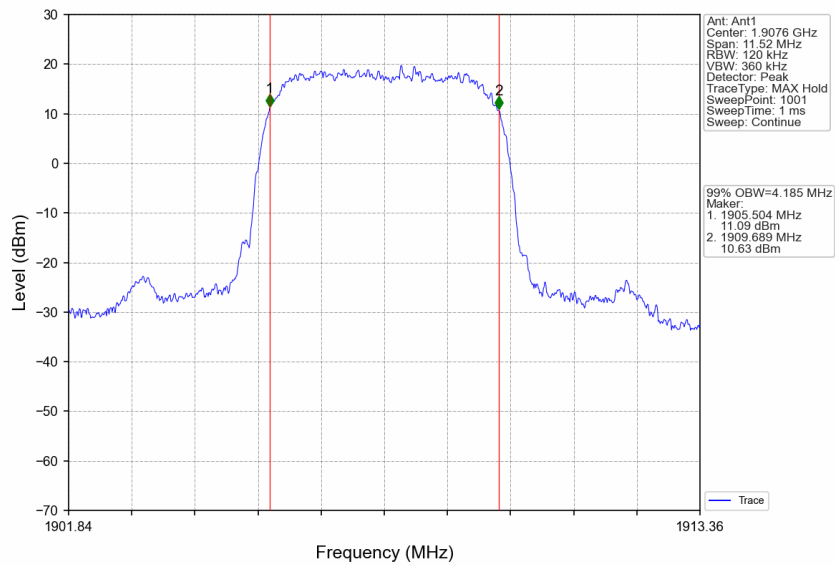


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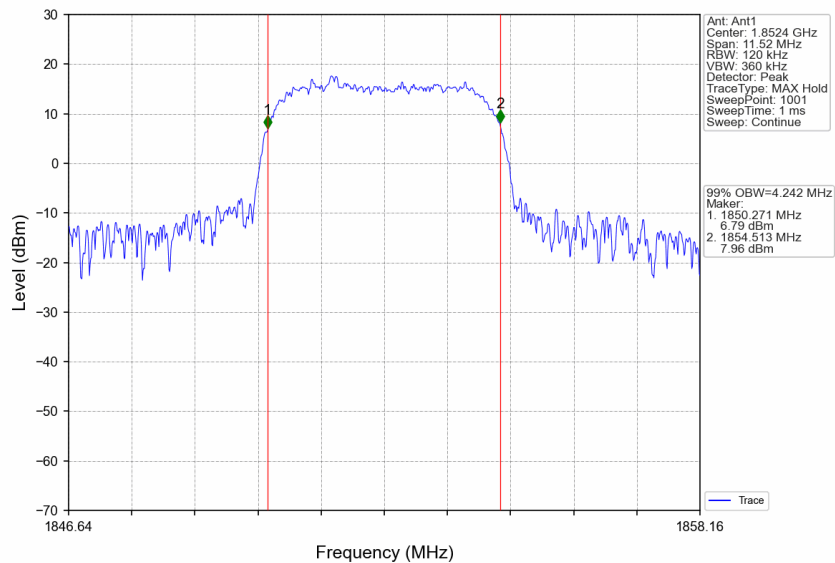
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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



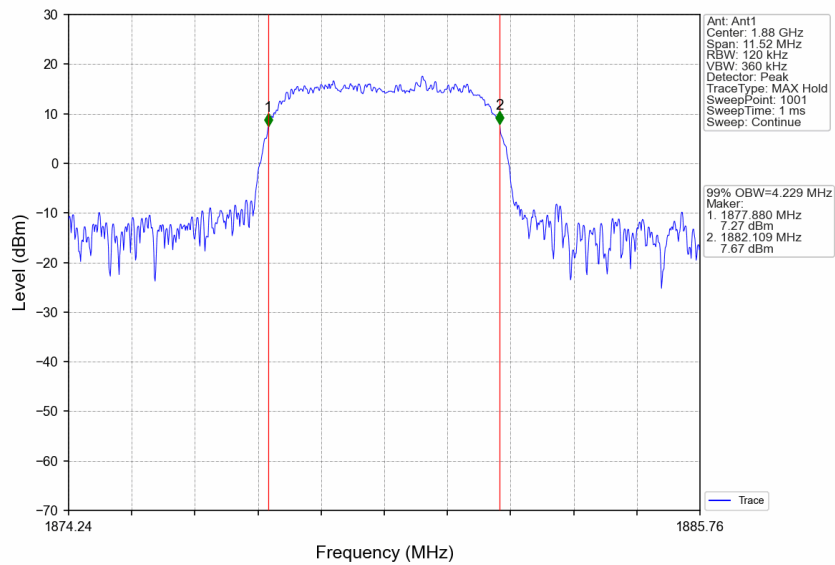
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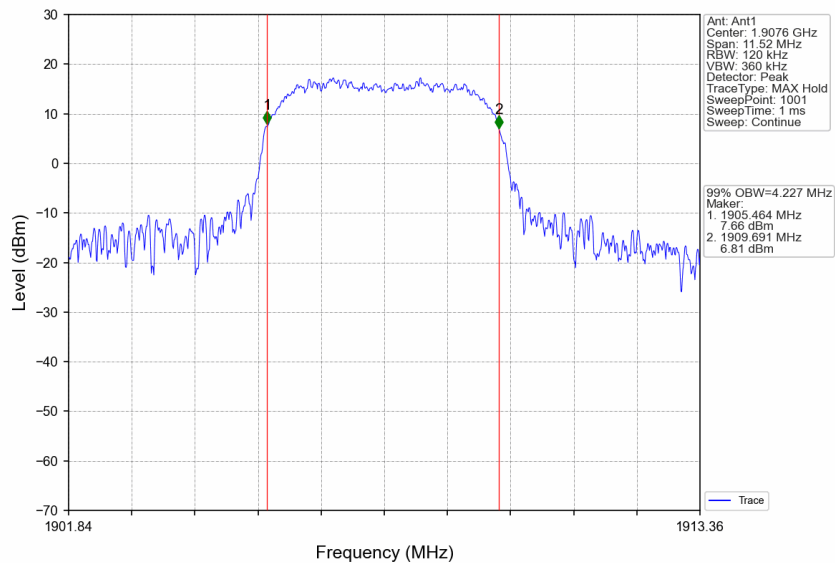
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Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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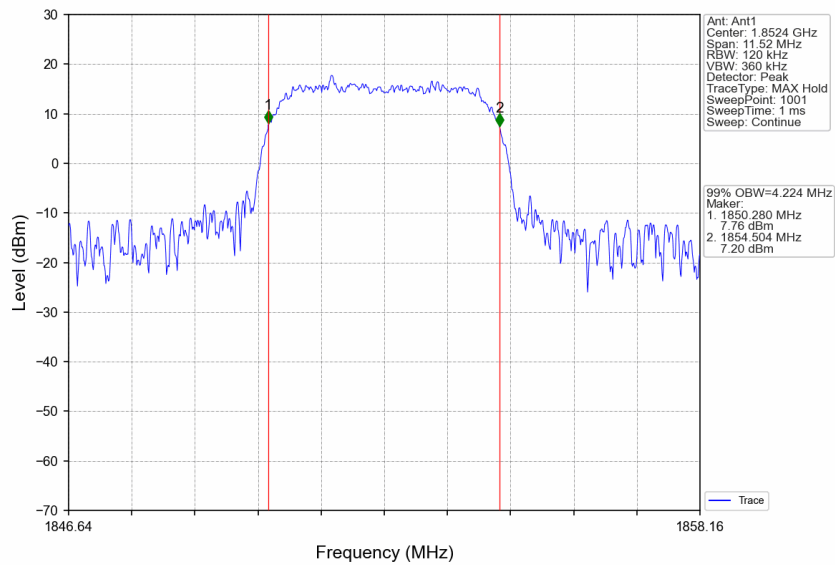
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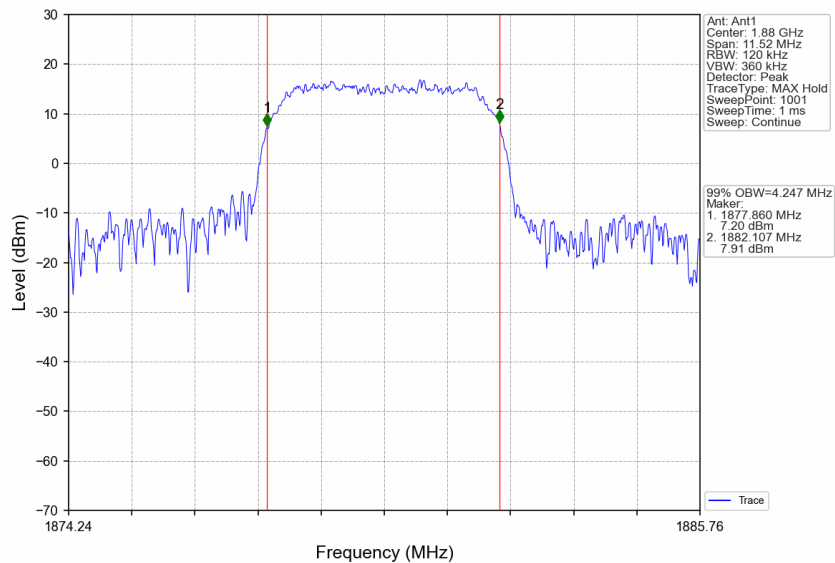
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Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV

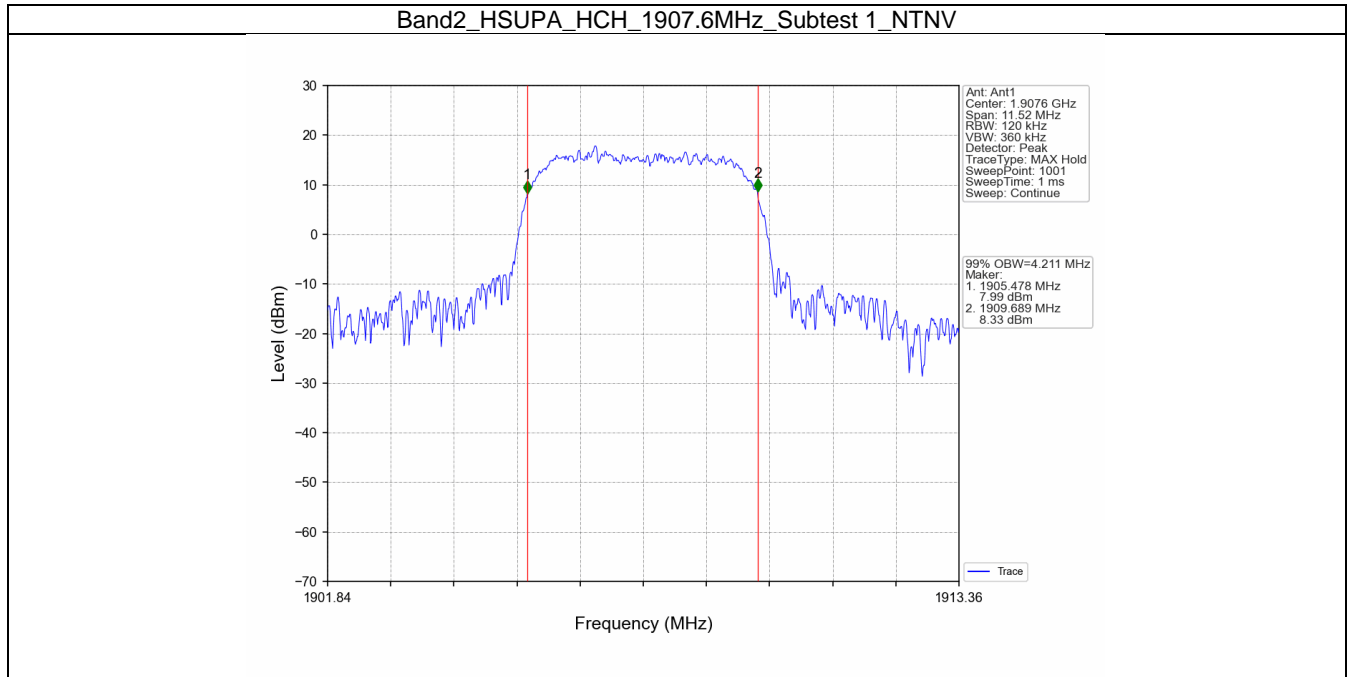


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4.2 Band2_XDB

4.2.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.729	Pass
			1880	4.748	Pass
			1907.6	4.749	Pass
	HSDPA	Subtest 1	1852.4	5.267	Pass
			1880	5.871	Pass
			1907.6	5.210	Pass
	HSUPA	Subtest 1	1852.4	5.375	Pass
			1880	6.156	Pass
			1907.6	5.156	Pass
			1907.6	5.156	Pass



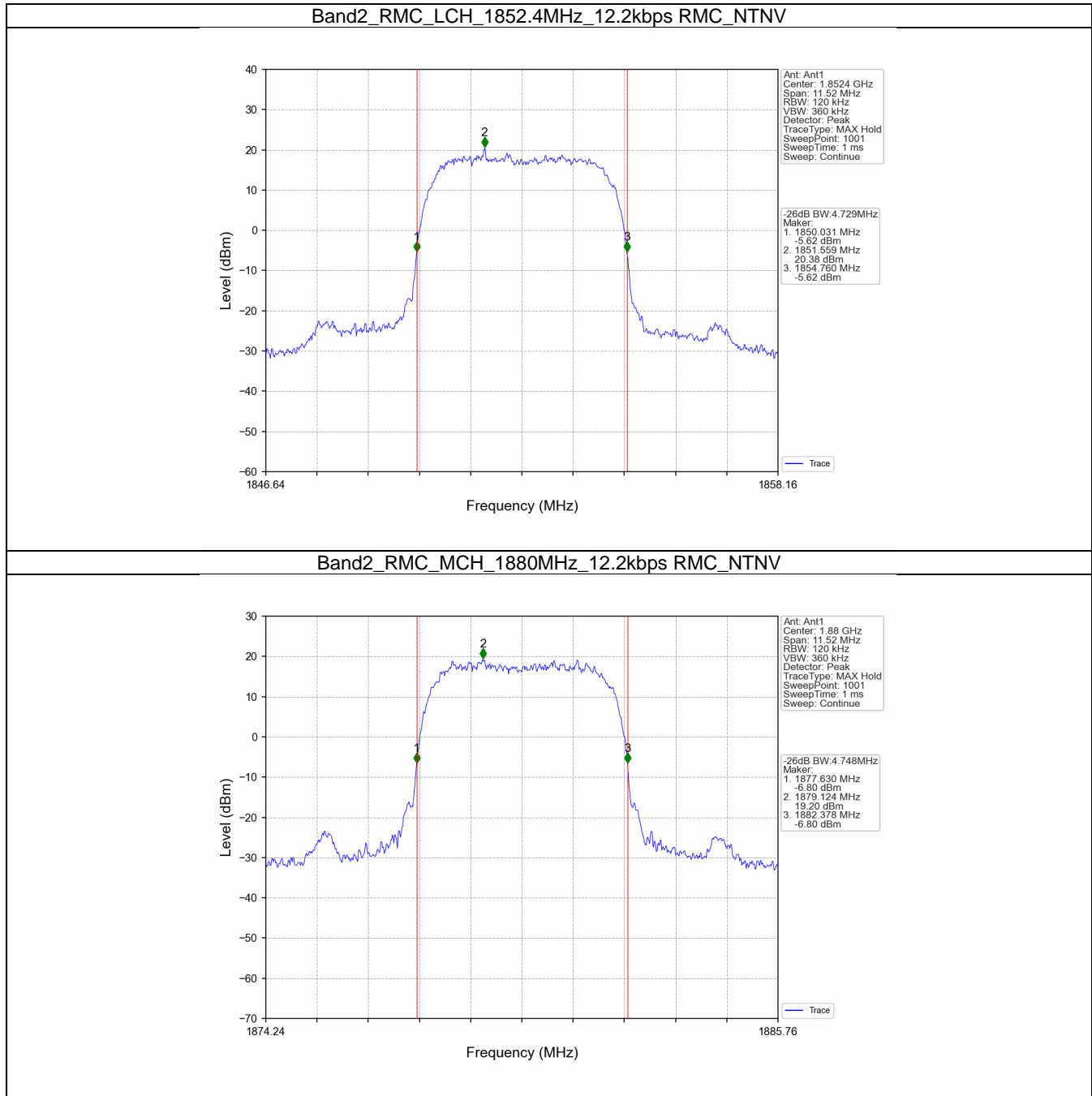
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4.2.2 Test Graph



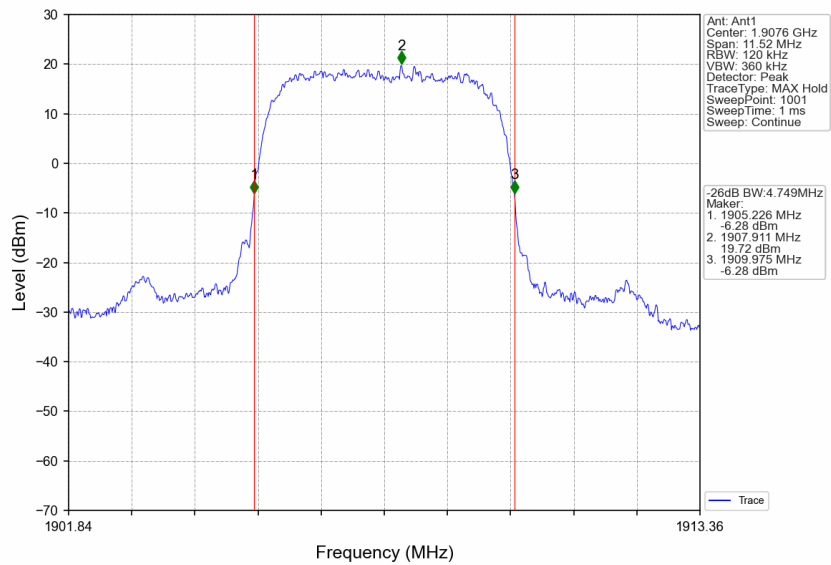
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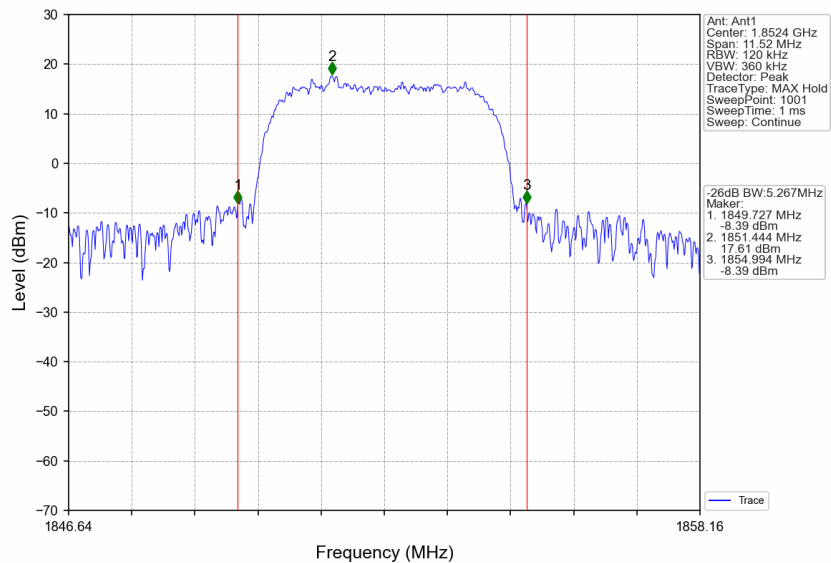
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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



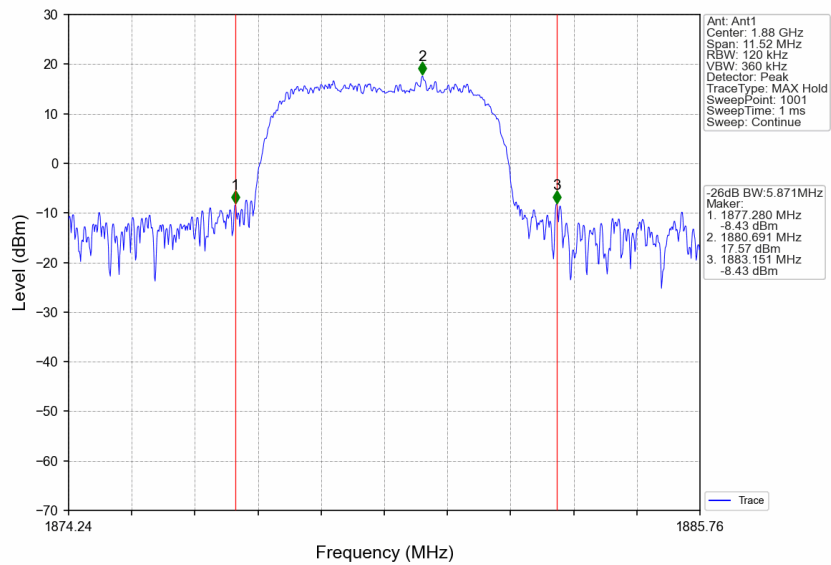
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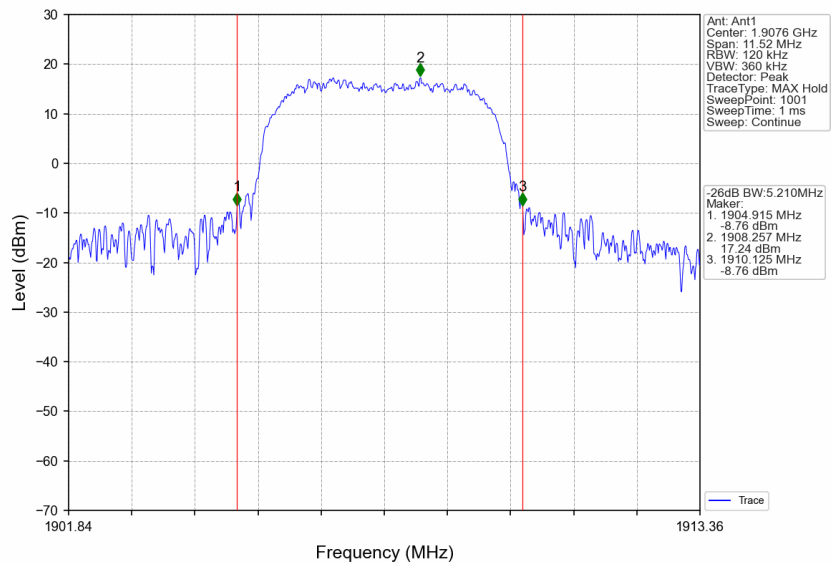
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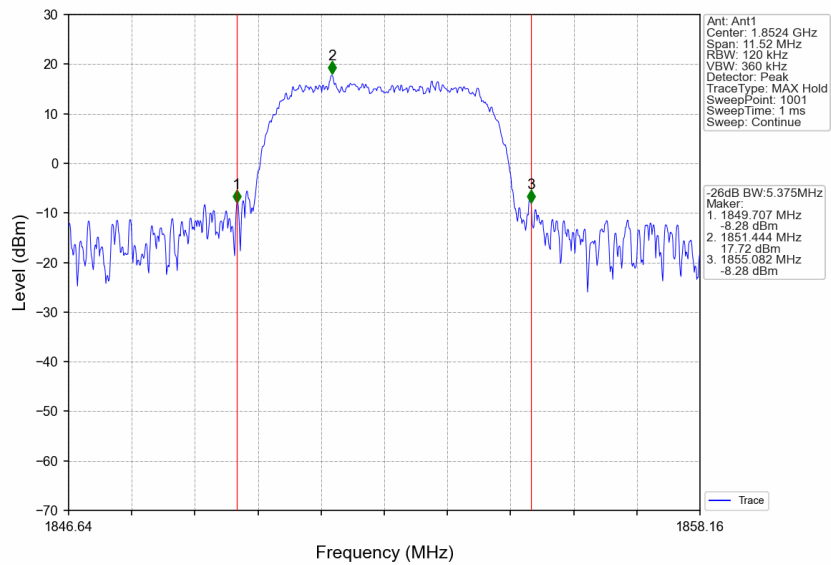
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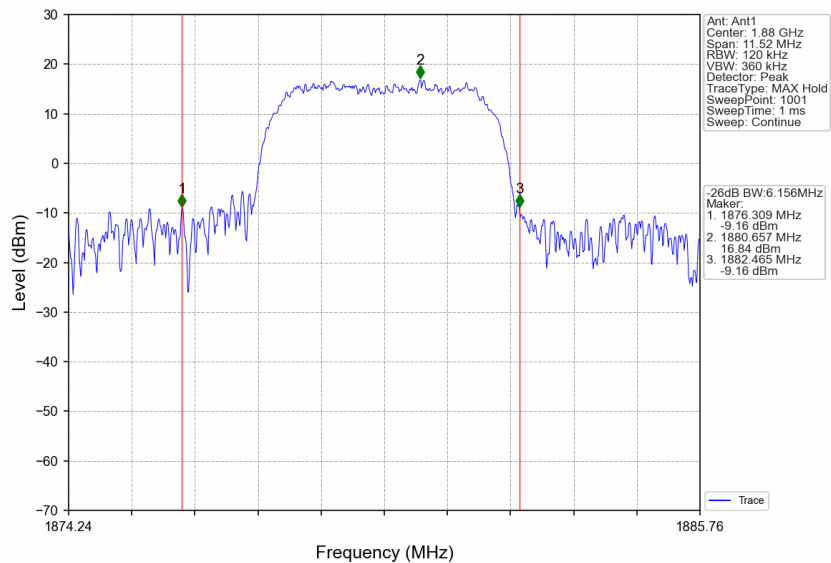
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Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



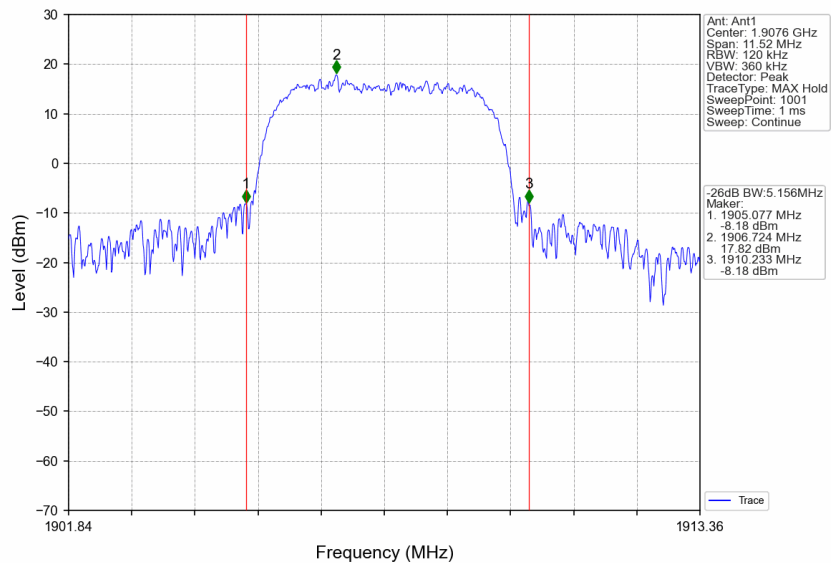
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5. Peak-Average Ratio

5.1 Band2

5.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.79	<=13	Pass
			1880	2.97	<=13	Pass
			1907.6	2.90	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.87	<=13	Pass
			1880	5.91	<=13	Pass
			1907.6	5.94	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.91	<=13	Pass
			1880	5.99	<=13	Pass
			1907.6	6.05	<=13	Pass



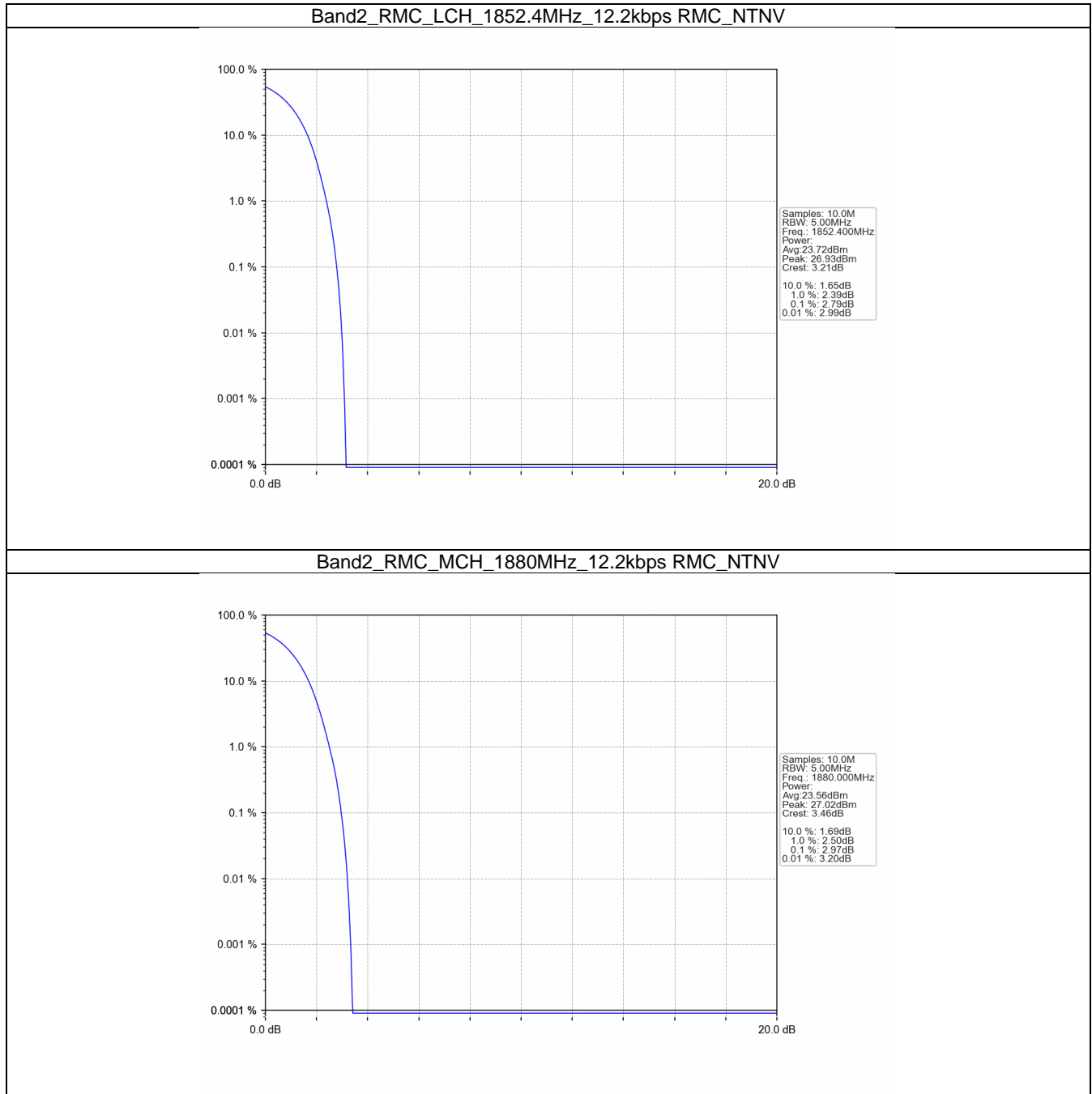
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5.1.2 Test Graph



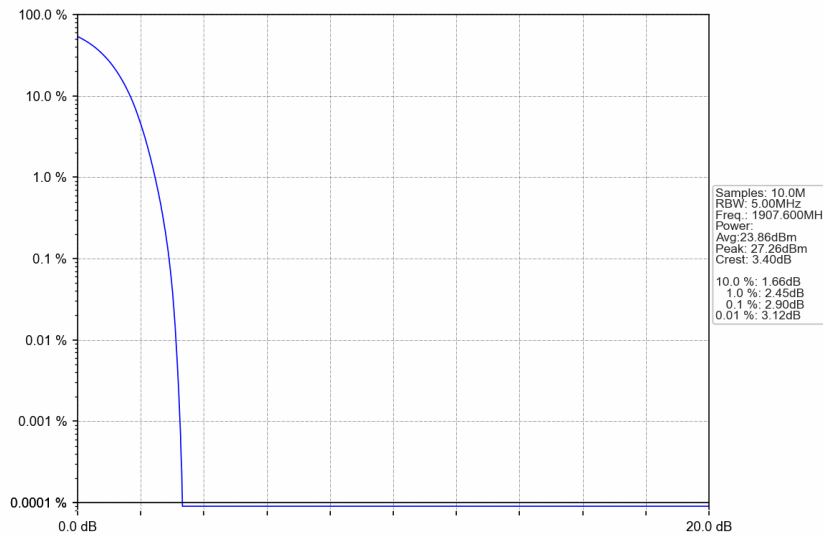
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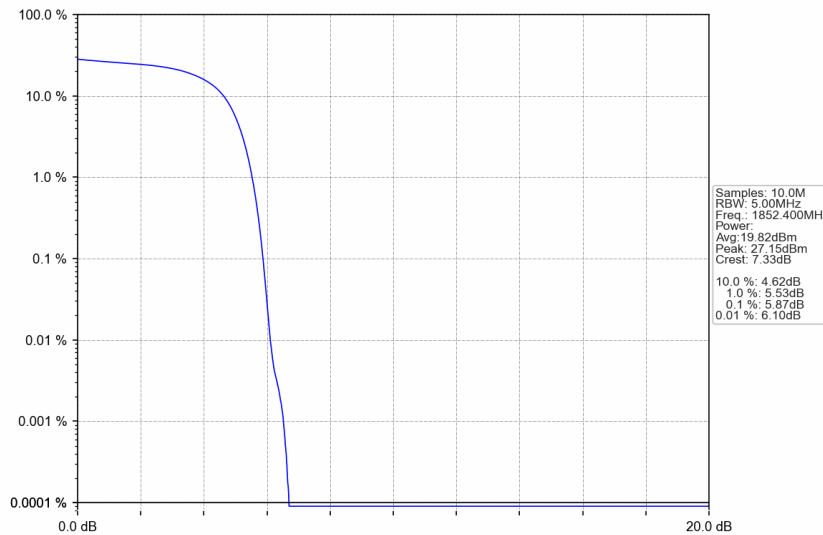
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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



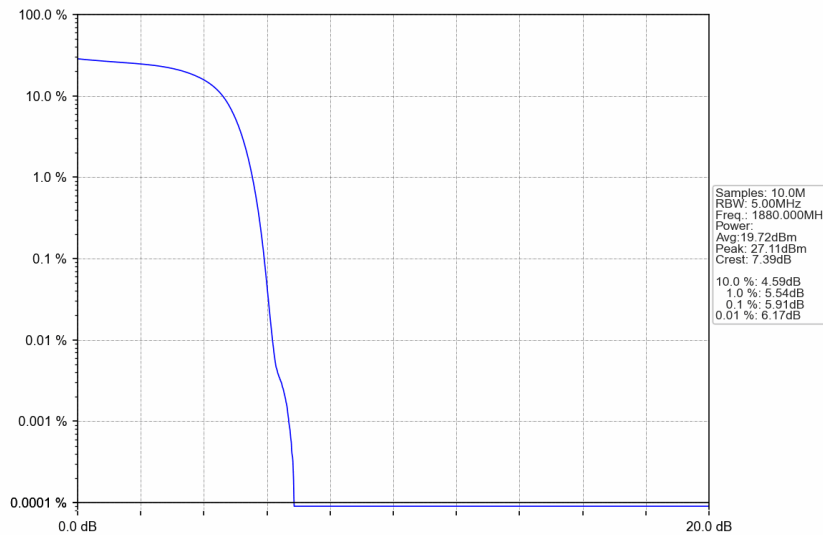
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



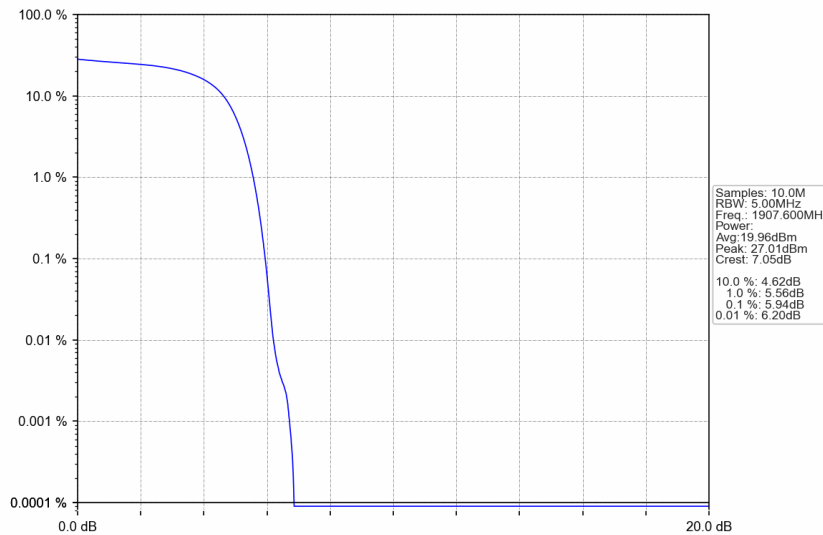
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Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



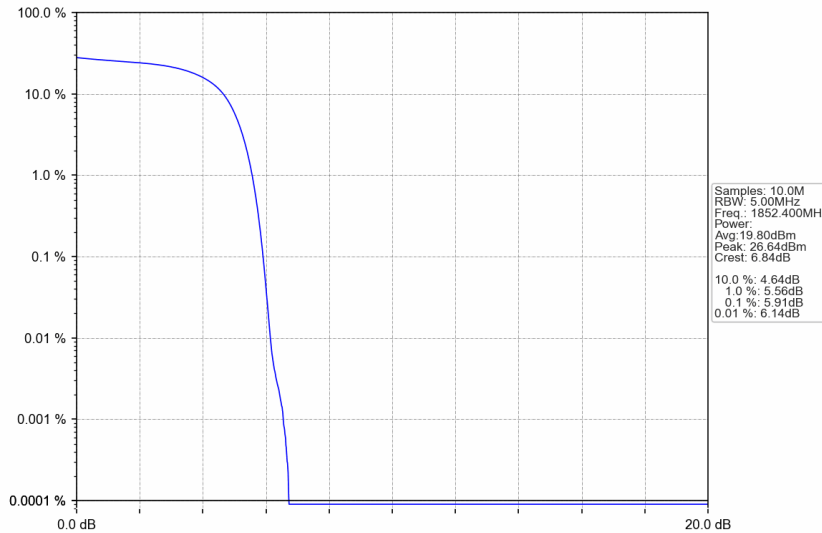
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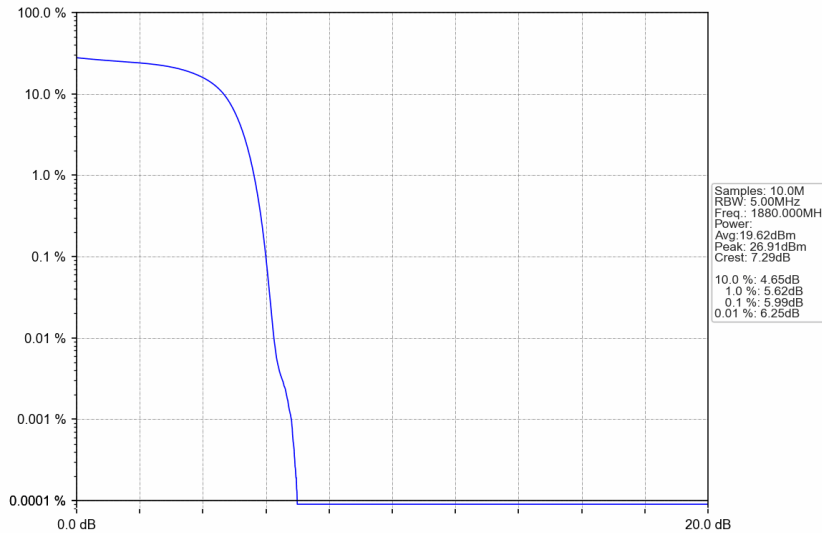
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Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



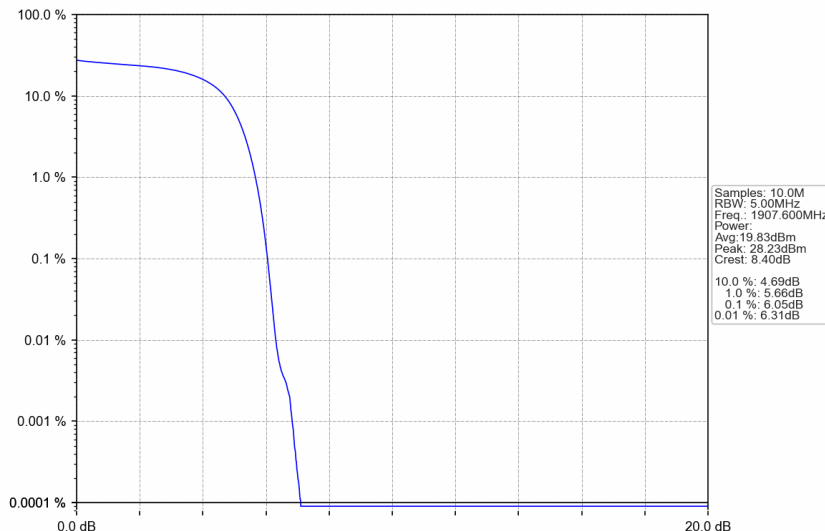
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6. Spurious Emission

6.1 Band2

6.1.1 Test Result

Band: 2						
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	



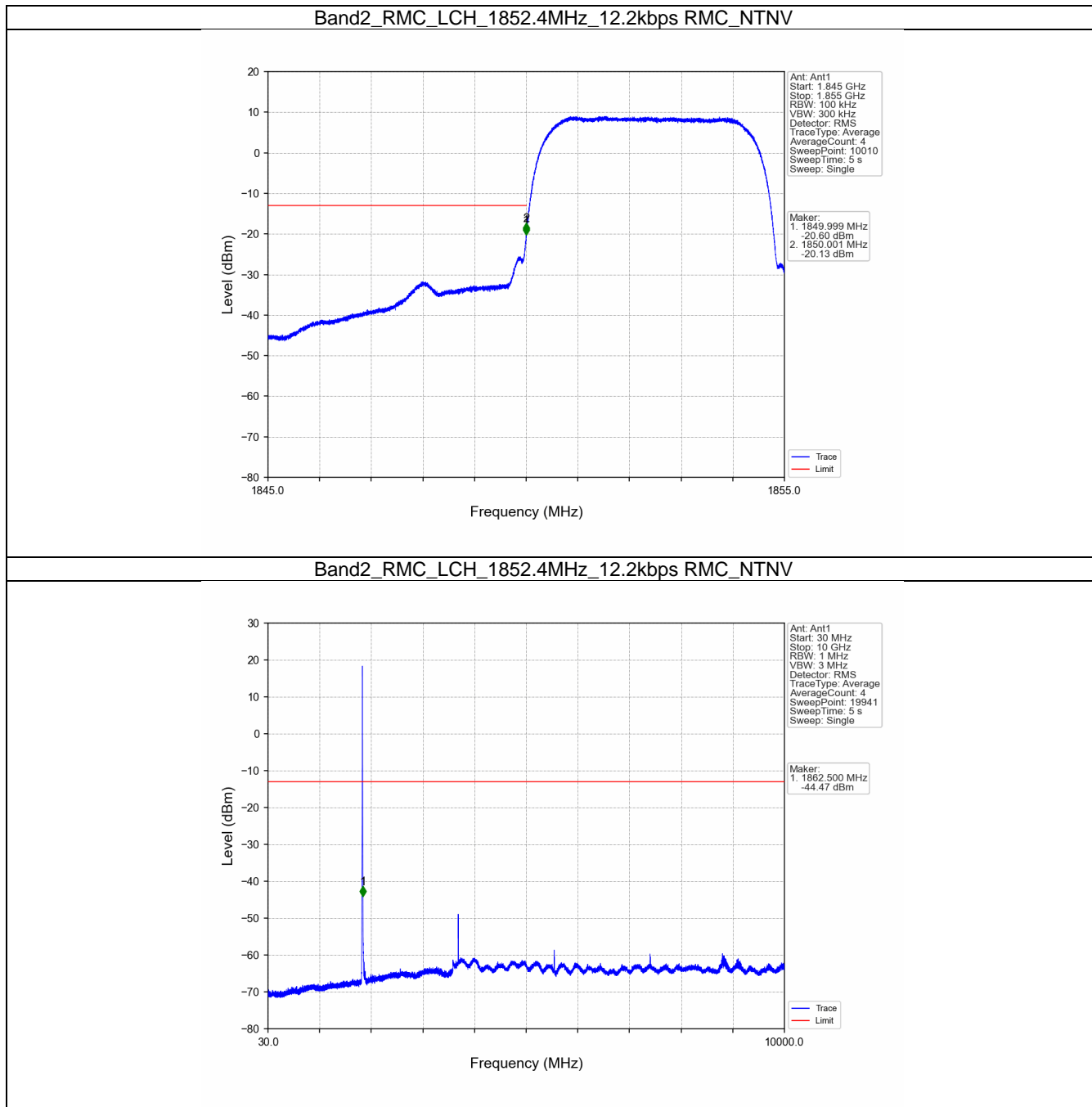
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6.1.2 Test Graph

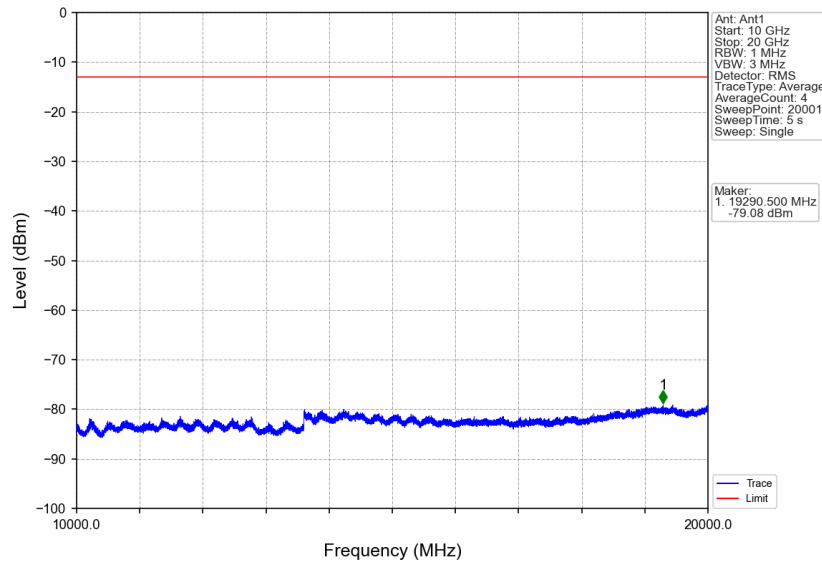


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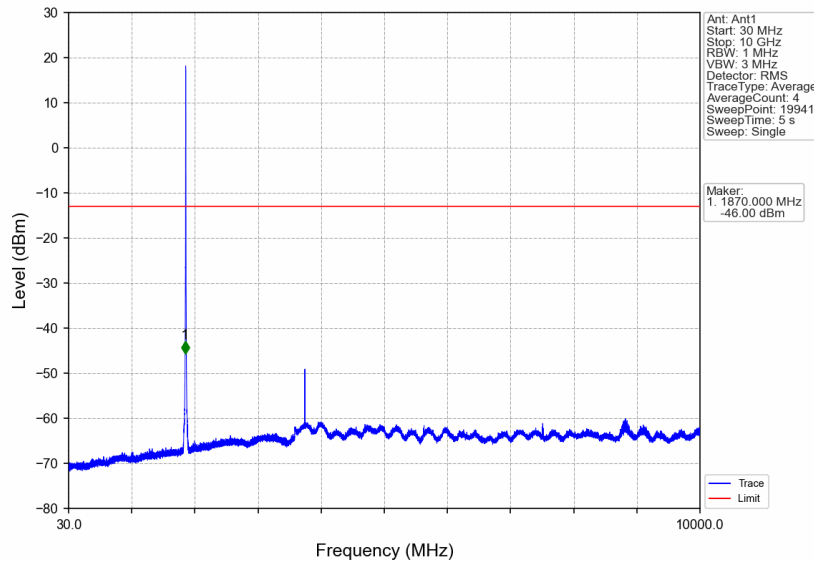
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Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



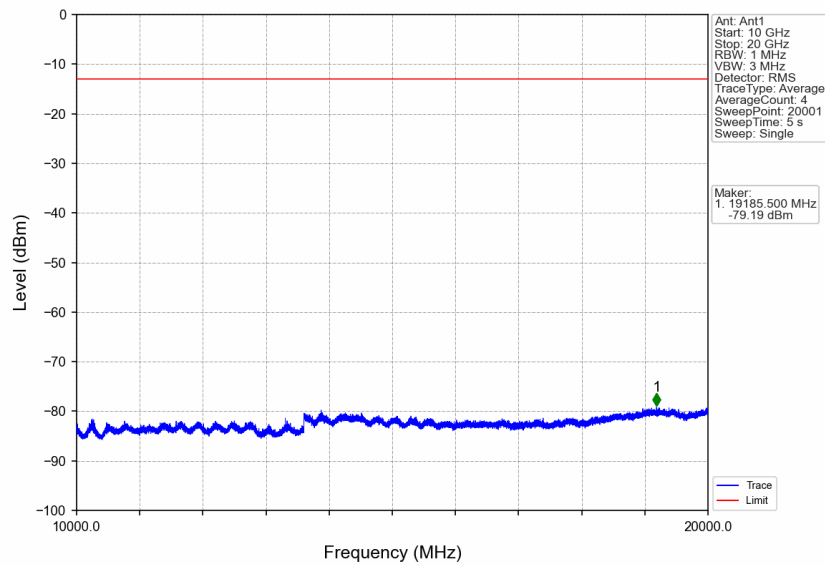
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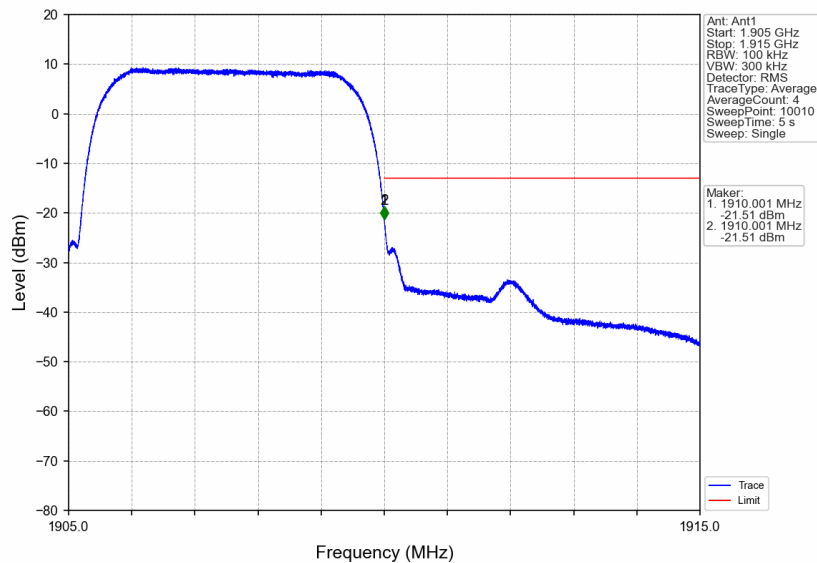
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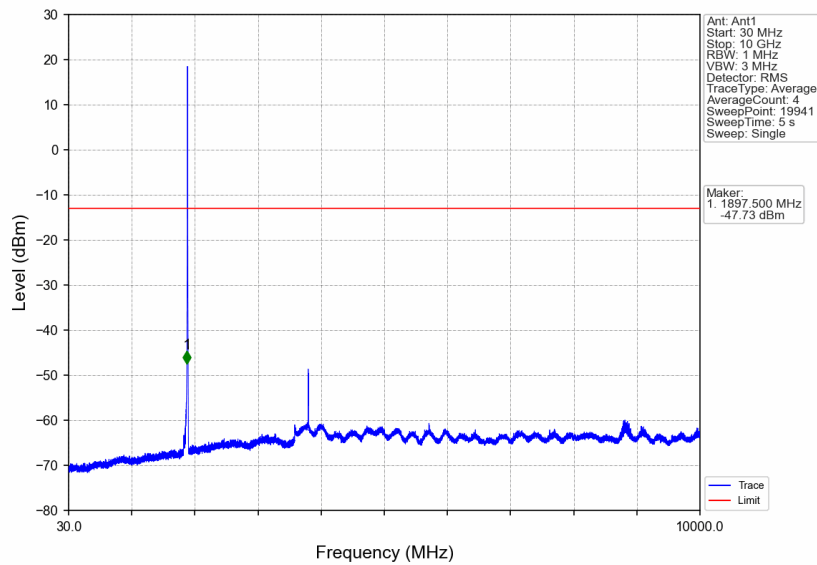
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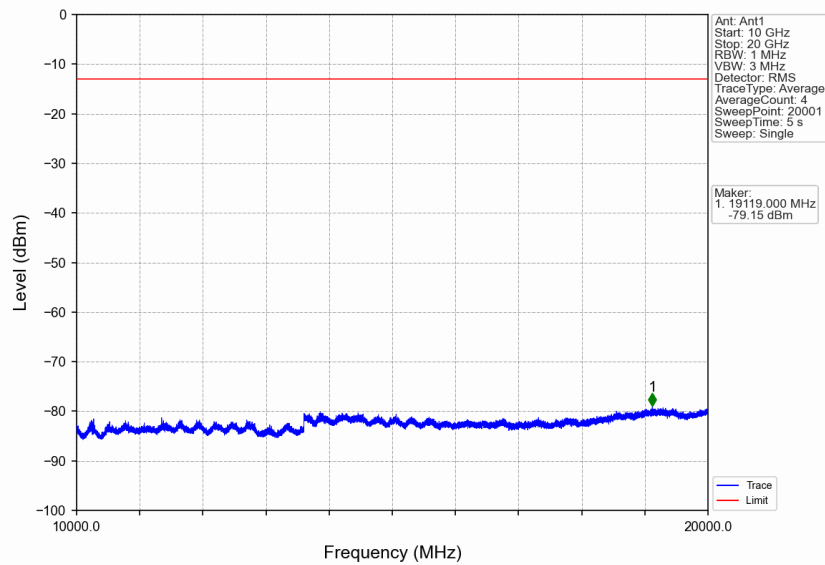
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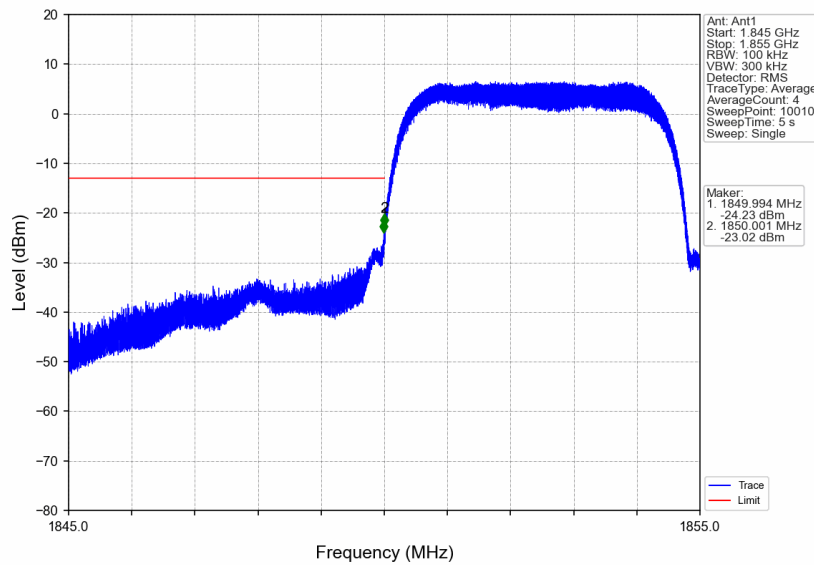
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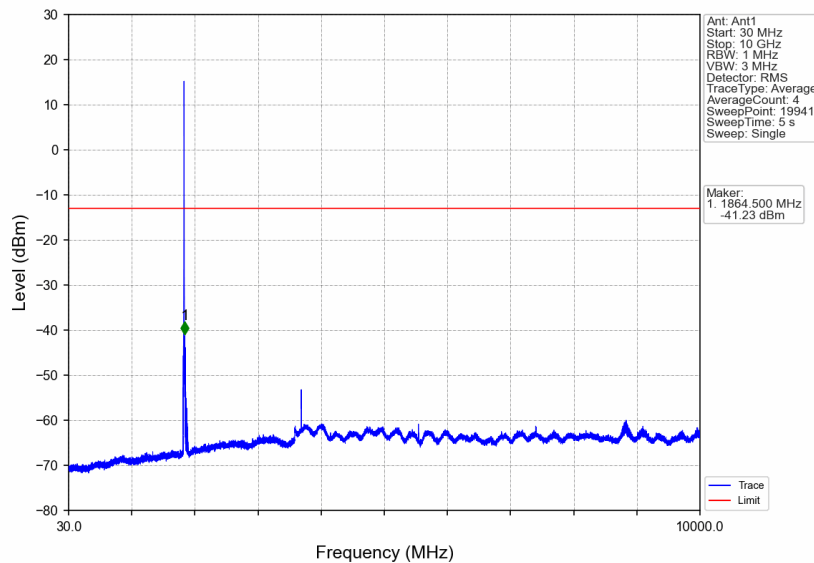


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Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



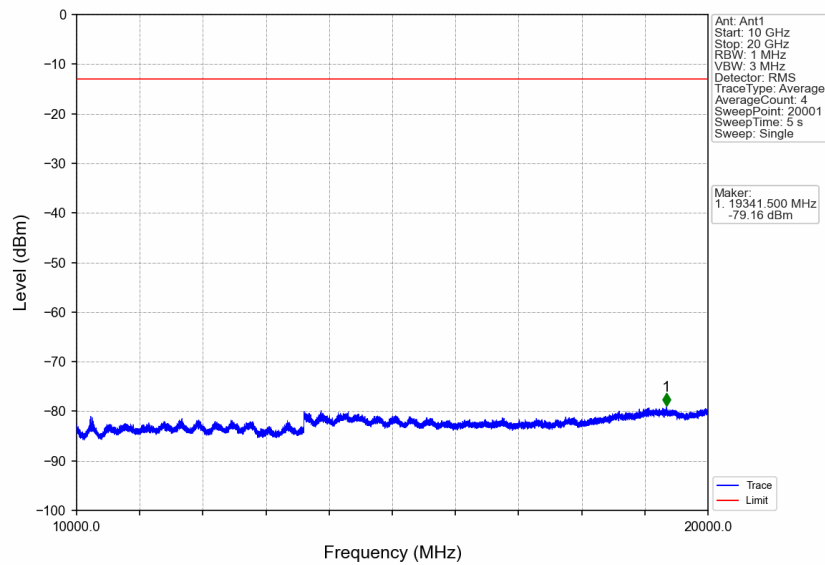
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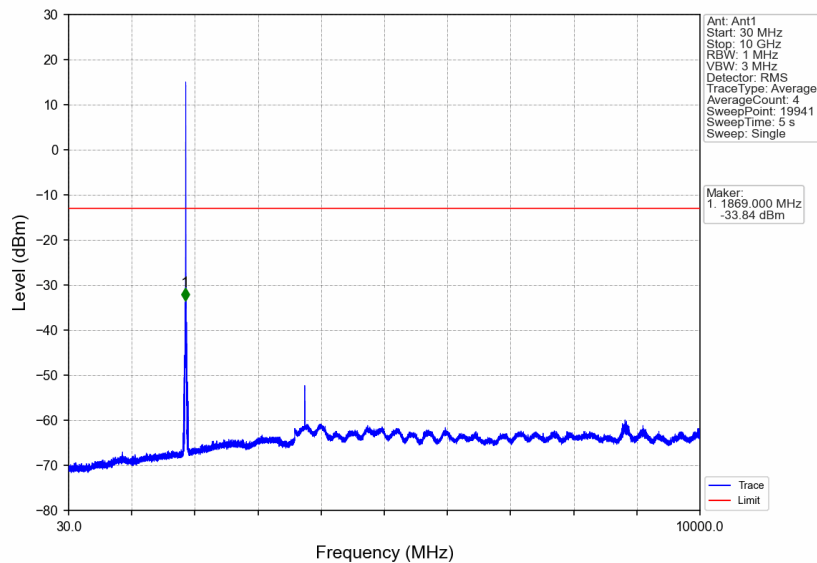
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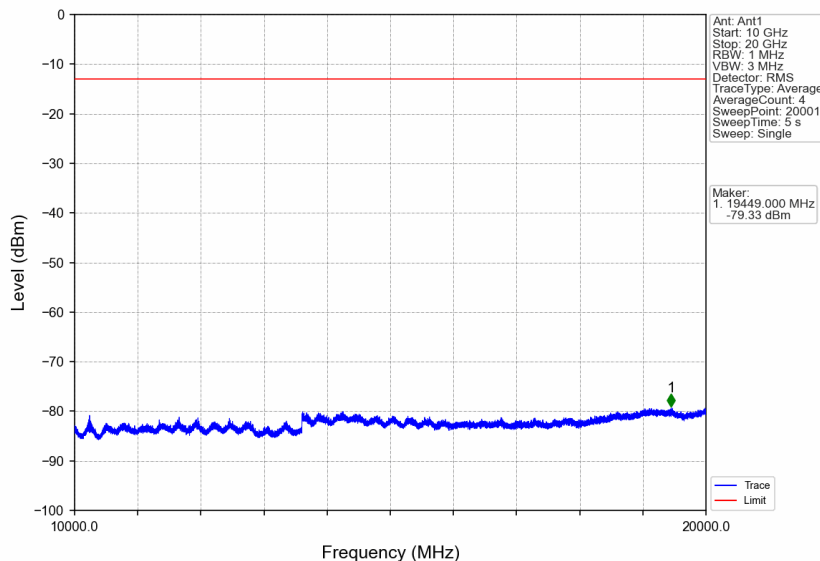
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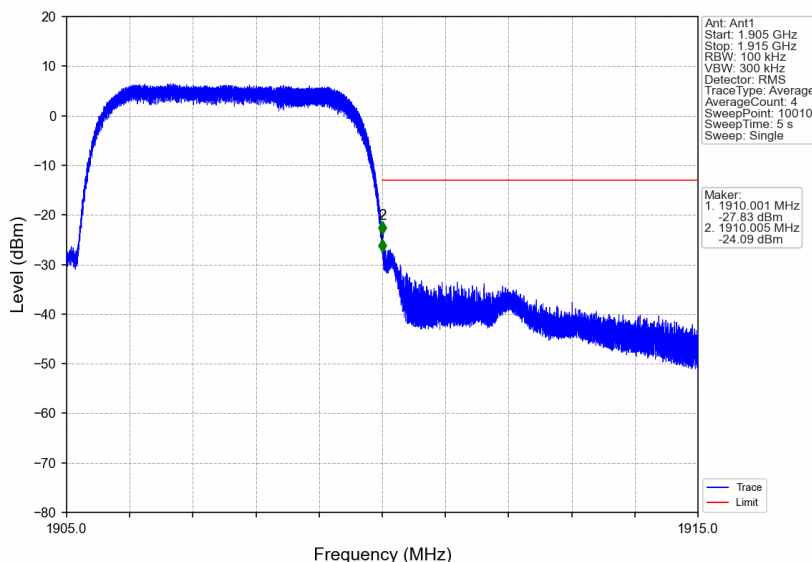
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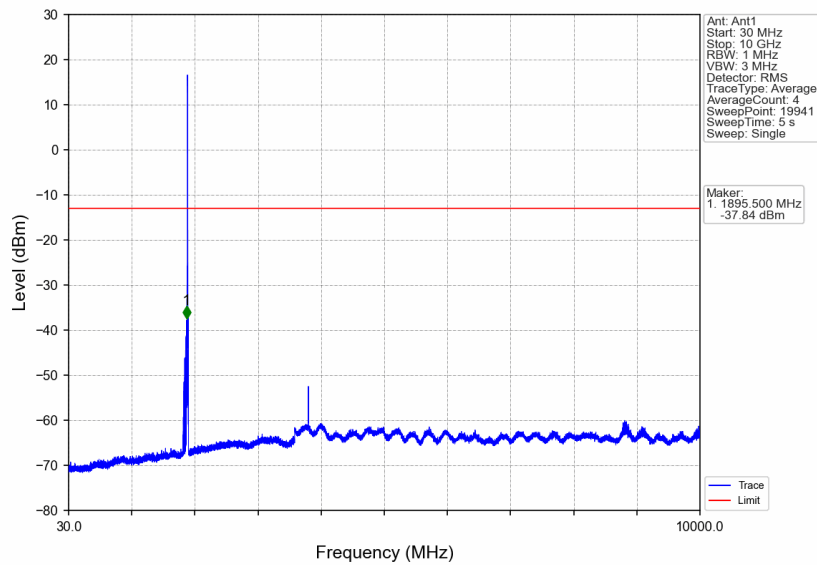
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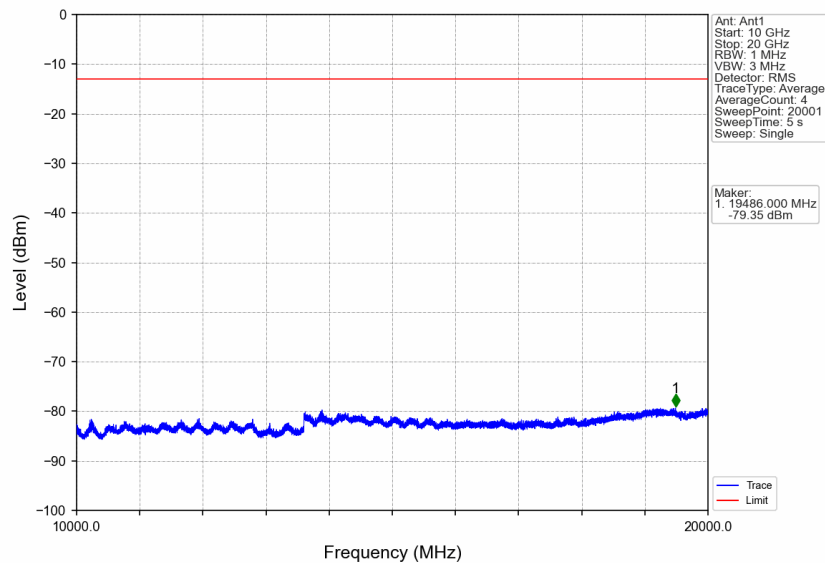
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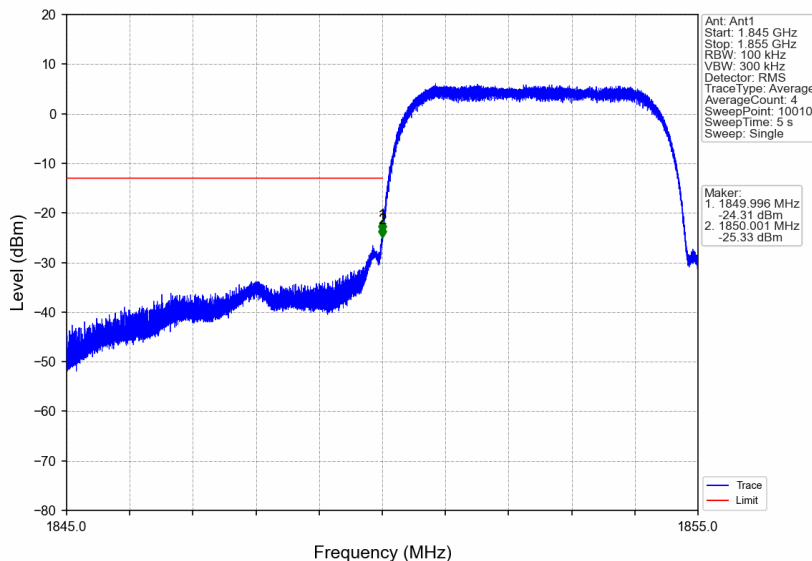
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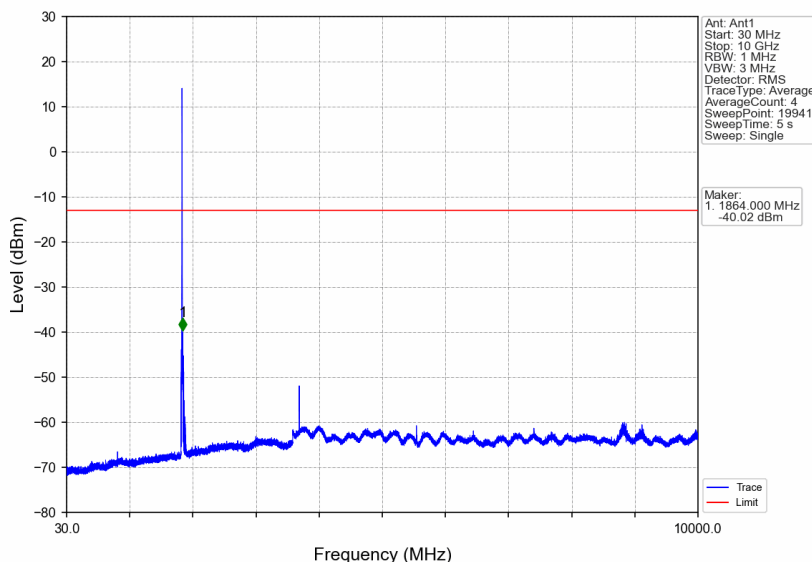
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Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



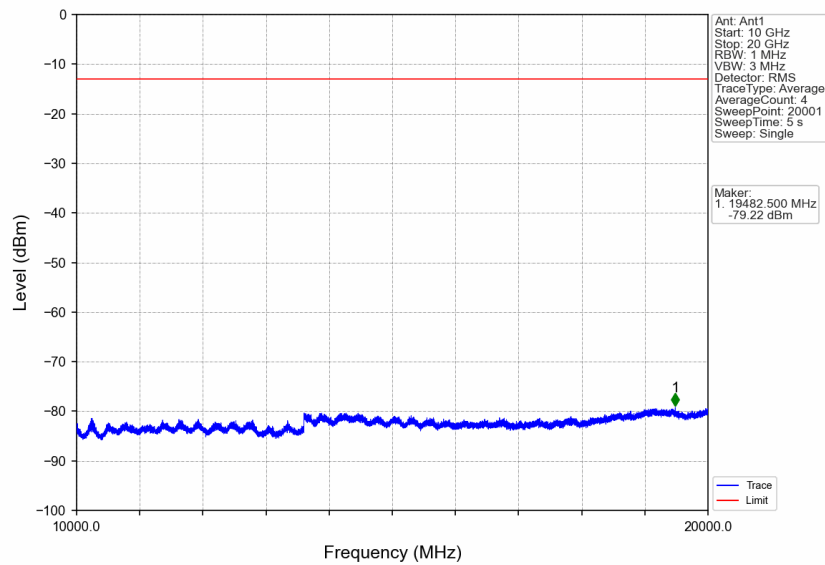
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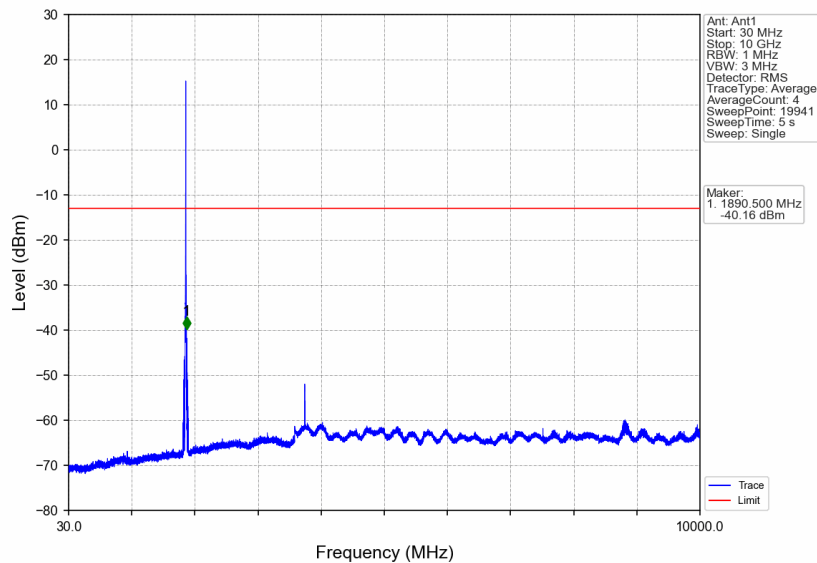
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Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



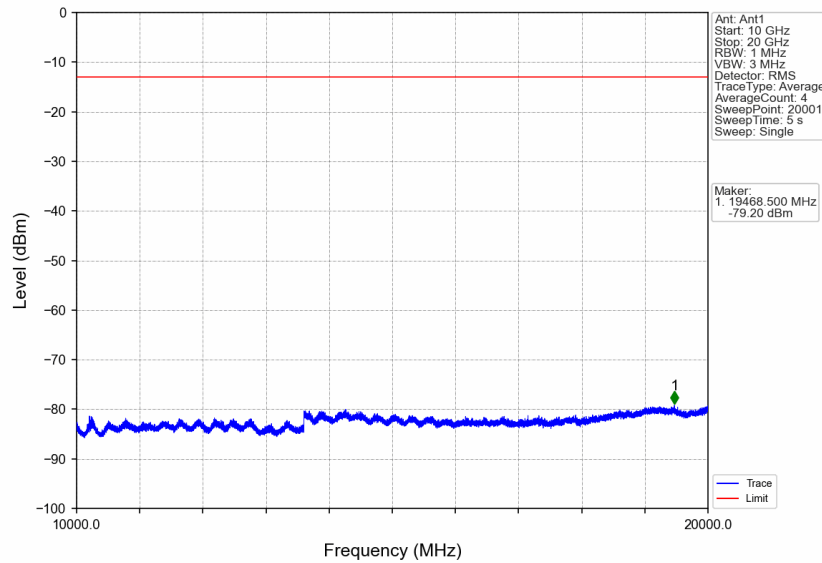
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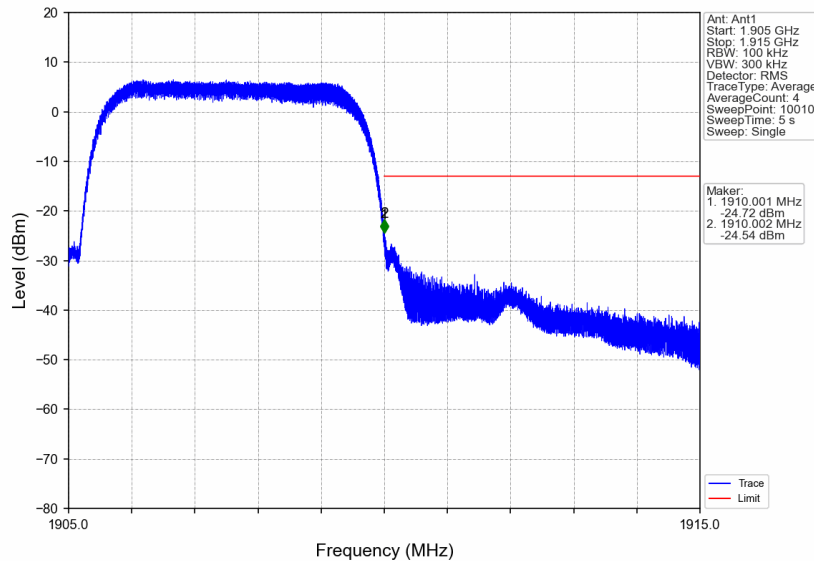
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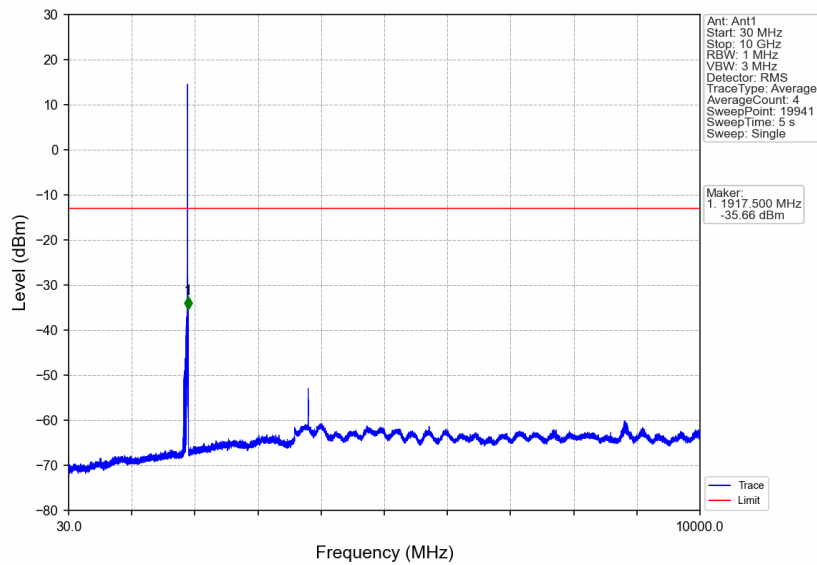
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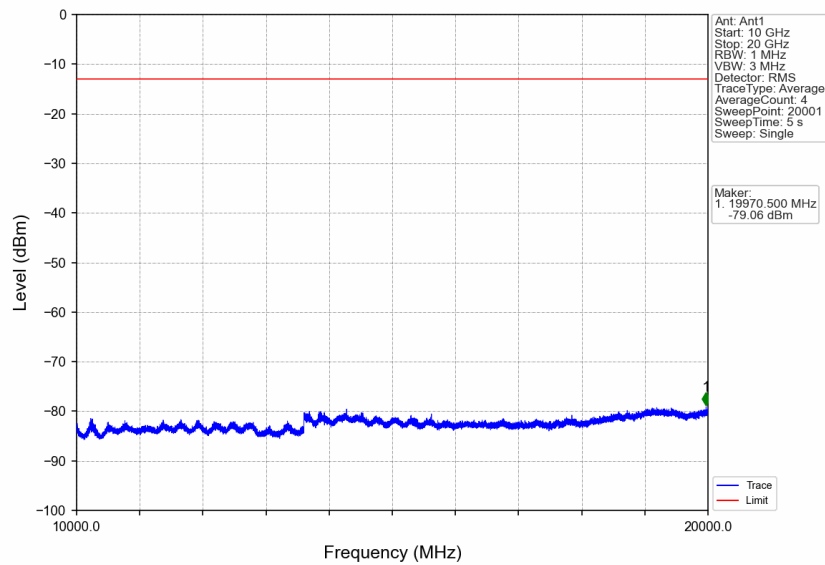
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