

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band2_EIRP

Band: 2								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	23.15	3.50	26.65	<=33.01	Pass
			1880	22.99	3.50	26.49	<=33.01	Pass
			1907.6	23.02	3.50	26.52	<=33.01	Pass
	HSDPA	Subtest 1	1852.4	21.54	3.50	25.04	<=33.01	Pass
		Subtest 2	1852.4	21.55	3.50	25.05	<=33.01	Pass
		Subtest 3	1852.4	21.55	3.50	25.05	<=33.01	Pass
		Subtest 4	1852.4	21.55	3.50	25.05	<=33.01	Pass
		Subtest 1	1880	21.35	3.50	24.85	<=33.01	Pass
		Subtest 2	1880	21.34	3.50	24.84	<=33.01	Pass
		Subtest 3	1880	21.34	3.50	24.84	<=33.01	Pass
		Subtest 4	1880	21.34	3.50	24.84	<=33.01	Pass
		Subtest 1	1907.6	21.26	3.50	24.76	<=33.01	Pass
		Subtest 2	1907.6	21.26	3.50	24.76	<=33.01	Pass
		Subtest 3	1907.6	21.27	3.50	24.77	<=33.01	Pass
		Subtest 4	1907.6	21.27	3.50	24.77	<=33.01	Pass
	HSUPA	Subtest 1	1852.4	19.11	3.50	22.61	<=33.01	Pass
		Subtest 2	1852.4	19.06	3.50	22.56	<=33.01	Pass
		Subtest 3	1852.4	19.06	3.50	22.56	<=33.01	Pass
		Subtest 4	1852.4	19.11	3.50	22.61	<=33.01	Pass
		Subtest 5	1852.4	19.34	3.50	22.84	<=33.01	Pass
		Subtest 1	1880	19.17	3.50	22.67	<=33.01	Pass
		Subtest 2	1880	19.12	3.50	22.62	<=33.01	Pass
		Subtest 3	1880	19.17	3.50	22.67	<=33.01	Pass
		Subtest 4	1880	19.12	3.50	22.62	<=33.01	Pass
		Subtest 5	1880	18.88	3.50	22.38	<=33.01	Pass
		Subtest 1	1907.6	18.74	3.50	22.24	<=33.01	Pass
		Subtest 2	1907.6	18.79	3.50	22.29	<=33.01	Pass
		Subtest 3	1907.6	19.08	3.50	22.58	<=33.01	Pass
		Subtest 4	1907.6	18.80	3.50	22.30	<=33.01	Pass
		Subtest 5	1907.6	19.28	3.50	22.78	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 Band2

Band: 2							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.27	-9.792	-0.0053	-2.5 to 2.5	Pass
			3.85	-8.090	-0.0044	-2.5 to 2.5	Pass
			4.43	-9.992	-0.0054	-2.5 to 2.5	Pass
		-30	3.85	-9.542	-0.0052	-2.5 to 2.5	Pass
		-20	3.85	-9.027	-0.0049	-2.5 to 2.5	Pass
		-10	3.85	-8.290	-0.0045	-2.5 to 2.5	Pass
		0	3.85	-8.690	-0.0047	-2.5 to 2.5	Pass
		10	3.85	-7.553	-0.0041	-2.5 to 2.5	Pass
		30	3.85	-9.420	-0.0051	-2.5 to 2.5	Pass
		40	3.85	-10.486	-0.0057	-2.5 to 2.5	Pass
		50	3.85	-9.406	-0.0051	-2.5 to 2.5	Pass
	1880	20	3.27	-8.461	-0.0045	-2.5 to 2.5	Pass
			3.85	-8.512	-0.0045	-2.5 to 2.5	Pass
			4.43	-8.869	-0.0047	-2.5 to 2.5	Pass
		-30	3.85	-10.271	-0.0055	-2.5 to 2.5	Pass
		-20	3.85	-9.084	-0.0048	-2.5 to 2.5	Pass
		-10	3.85	-8.676	-0.0046	-2.5 to 2.5	Pass
		0	3.85	-9.556	-0.0051	-2.5 to 2.5	Pass
		10	3.85	-9.105	-0.0048	-2.5 to 2.5	Pass
		30	3.85	-8.225	-0.0044	-2.5 to 2.5	Pass
		40	3.85	-8.926	-0.0047	-2.5 to 2.5	Pass
		50	3.85	-8.290	-0.0044	-2.5 to 2.5	Pass
	1907.6	20	3.27	-8.461	-0.0044	-2.5 to 2.5	Pass
			3.85	-7.589	-0.0040	-2.5 to 2.5	Pass
			4.43	-9.155	-0.0048	-2.5 to 2.5	Pass
		-30	3.85	-7.839	-0.0041	-2.5 to 2.5	Pass
		-20	3.85	-8.698	-0.0046	-2.5 to 2.5	Pass
		-10	3.85	-8.240	-0.0043	-2.5 to 2.5	Pass
		0	3.85	-8.948	-0.0047	-2.5 to 2.5	Pass
		10	3.85	-8.419	-0.0044	-2.5 to 2.5	Pass
		30	3.85	-8.469	-0.0044	-2.5 to 2.5	Pass
		40	3.85	-8.912	-0.0047	-2.5 to 2.5	Pass
		50	3.85	-8.955	-0.0047	-2.5 to 2.5	Pass
HSDPA	1852.4	20	3.27	-4.785	-0.0026	-2.5 to 2.5	Pass
			3.85	-2.968	-0.0016	-2.5 to 2.5	Pass
			4.43	-4.513	-0.0024	-2.5 to 2.5	Pass
		-30	3.85	-6.444	-0.0035	-2.5 to 2.5	Pass
		-20	3.85	-4.442	-0.0024	-2.5 to 2.5	Pass
		-10	3.85	-3.712	-0.0020	-2.5 to 2.5	Pass
		0	3.85	-3.898	-0.0021	-2.5 to 2.5	Pass
		10	3.85	-4.227	-0.0023	-2.5 to 2.5	Pass
		30	3.85	-4.413	-0.0024	-2.5 to 2.5	Pass
		40	3.85	-4.678	-0.0025	-2.5 to 2.5	Pass
		50	3.85	-4.935	-0.0027	-2.5 to 2.5	Pass
	1880	20	3.27	-3.333	-0.0018	-2.5 to 2.5	Pass
			3.85	-3.691	-0.0020	-2.5 to 2.5	Pass
			4.43	-3.719	-0.0020	-2.5 to 2.5	Pass
		-30	3.85	-2.260	-0.0012	-2.5 to 2.5	Pass
		-20	3.85	-3.104	-0.0017	-2.5 to 2.5	Pass
		-10	3.85	-2.918	-0.0016	-2.5 to 2.5	Pass

		0	3.85	-3.083	-0.0016	-2.5 to 2.5	Pass
		10	3.85	-3.641	-0.0019	-2.5 to 2.5	Pass
		30	3.85	-2.861	-0.0015	-2.5 to 2.5	Pass
		40	3.85	-3.412	-0.0018	-2.5 to 2.5	Pass
		50	3.85	-3.476	-0.0018	-2.5 to 2.5	Pass
	1907.6	20	3.27	-2.711	-0.0014	-2.5 to 2.5	Pass
			3.85	-3.333	-0.0017	-2.5 to 2.5	Pass
			4.43	-2.840	-0.0015	-2.5 to 2.5	Pass
		-30	3.85	-2.933	-0.0015	-2.5 to 2.5	Pass
		-20	3.85	-3.211	-0.0017	-2.5 to 2.5	Pass
		-10	3.85	-3.111	-0.0016	-2.5 to 2.5	Pass
		0	3.85	-2.775	-0.0015	-2.5 to 2.5	Pass
		10	3.85	-2.654	-0.0014	-2.5 to 2.5	Pass
		30	3.85	-3.047	-0.0016	-2.5 to 2.5	Pass
		40	3.85	-2.947	-0.0015	-2.5 to 2.5	Pass
		50	3.85	-2.511	-0.0013	-2.5 to 2.5	Pass
HSUPA	1852.4	20	3.27	-8.318	-0.0045	-2.5 to 2.5	Pass
			3.85	-7.160	-0.0039	-2.5 to 2.5	Pass
			4.43	-7.746	-0.0042	-2.5 to 2.5	Pass
		-30	3.85	-6.709	-0.0036	-2.5 to 2.5	Pass
		-20	3.85	-7.203	-0.0039	-2.5 to 2.5	Pass
		-10	3.85	-7.703	-0.0042	-2.5 to 2.5	Pass
		0	3.85	-7.639	-0.0041	-2.5 to 2.5	Pass
		10	3.85	-7.739	-0.0042	-2.5 to 2.5	Pass
		30	3.85	-8.640	-0.0047	-2.5 to 2.5	Pass
		40	3.85	-7.474	-0.0040	-2.5 to 2.5	Pass
		50	3.85	-7.539	-0.0041	-2.5 to 2.5	Pass
	1880	20	3.27	-8.533	-0.0045	-2.5 to 2.5	Pass
			3.85	-8.919	-0.0047	-2.5 to 2.5	Pass
			4.43	-8.562	-0.0046	-2.5 to 2.5	Pass
		-30	3.85	-7.732	-0.0041	-2.5 to 2.5	Pass
		-20	3.85	-9.449	-0.0050	-2.5 to 2.5	Pass
		-10	3.85	-8.740	-0.0046	-2.5 to 2.5	Pass
		0	3.85	-9.499	-0.0051	-2.5 to 2.5	Pass
		10	3.85	-8.819	-0.0047	-2.5 to 2.5	Pass
		30	3.85	-9.477	-0.0050	-2.5 to 2.5	Pass
		40	3.85	-8.576	-0.0046	-2.5 to 2.5	Pass
		50	3.85	-9.377	-0.0050	-2.5 to 2.5	Pass
	1907.6	20	3.27	-8.519	-0.0045	-2.5 to 2.5	Pass
			3.85	-8.247	-0.0043	-2.5 to 2.5	Pass
			4.43	-9.441	-0.0049	-2.5 to 2.5	Pass
		-30	3.85	-7.932	-0.0042	-2.5 to 2.5	Pass
		-20	3.85	-8.161	-0.0043	-2.5 to 2.5	Pass
		-10	3.85	-9.084	-0.0048	-2.5 to 2.5	Pass
		0	3.85	-8.433	-0.0044	-2.5 to 2.5	Pass
		10	3.85	-9.477	-0.0050	-2.5 to 2.5	Pass
		30	3.85	-8.290	-0.0043	-2.5 to 2.5	Pass
		40	3.85	-8.161	-0.0043	-2.5 to 2.5	Pass
		50	3.85	-8.562	-0.0045	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 Band2

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

3.2 Test Graph

3.2.1 Band2

Band2_RMC_MCH_1880MHz_12.2kbps_RMC_NTNV

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.172

Multi Evaluation
TPC Measurement
PRACH
DPCCH Open Loop Power
Out-of-Sync Handling

UL Frequency: 1880.000000 MHz Ref. Level: 32.40 dBm Connector: RF1COM Meas. Period: Full Slot

TX Measurement

1st Measured Slot No 0
Statistic Count 20 / 20

Statistics @ Pre. Slot 0	Current	Average	Maximum	StdDev.
Power [dBm]	23.02	23.02	23.02	0.00
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

HSDPA+ CPO Circuit Switched:
 HSUPA CM Registered

Packet Switched:
 Connection Established

Power: ON
 Sync: ON

Go To Local
Show Remote Screen

WCDMA

Multi Evaluation

RDY

RF Settings

Trigger

Display

Signaling Parameter

WCDMA 1 Signaling

ON

Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.172

Multi Evaluation
TPC Measurement
PRACH
DPCCH Open Loop Power
Out-of-Sync Handling

UL Frequency: 1880.000000 MHz Ref. Level: 34.00 dBm Connector: RF1COM Meas. Period: Full Slot

TX Measurement

1st Measured Slot No 0
Statistic Count 20 / 20

Statistics @ Pre. Slot 0	Current	Average	Maximum	StdDev.
Power [dBm]	21.30	21.30	21.32	0.01
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

HSDPA+ CPO Circuit Switched:
 HSUPA CM Registered

Packet Switched:
 Connection Established

Power: ON
 Sync: ON

Go To Local
Show Remote Screen

WCDMA

Multi Evaluation

RDY

RF Settings

Trigger

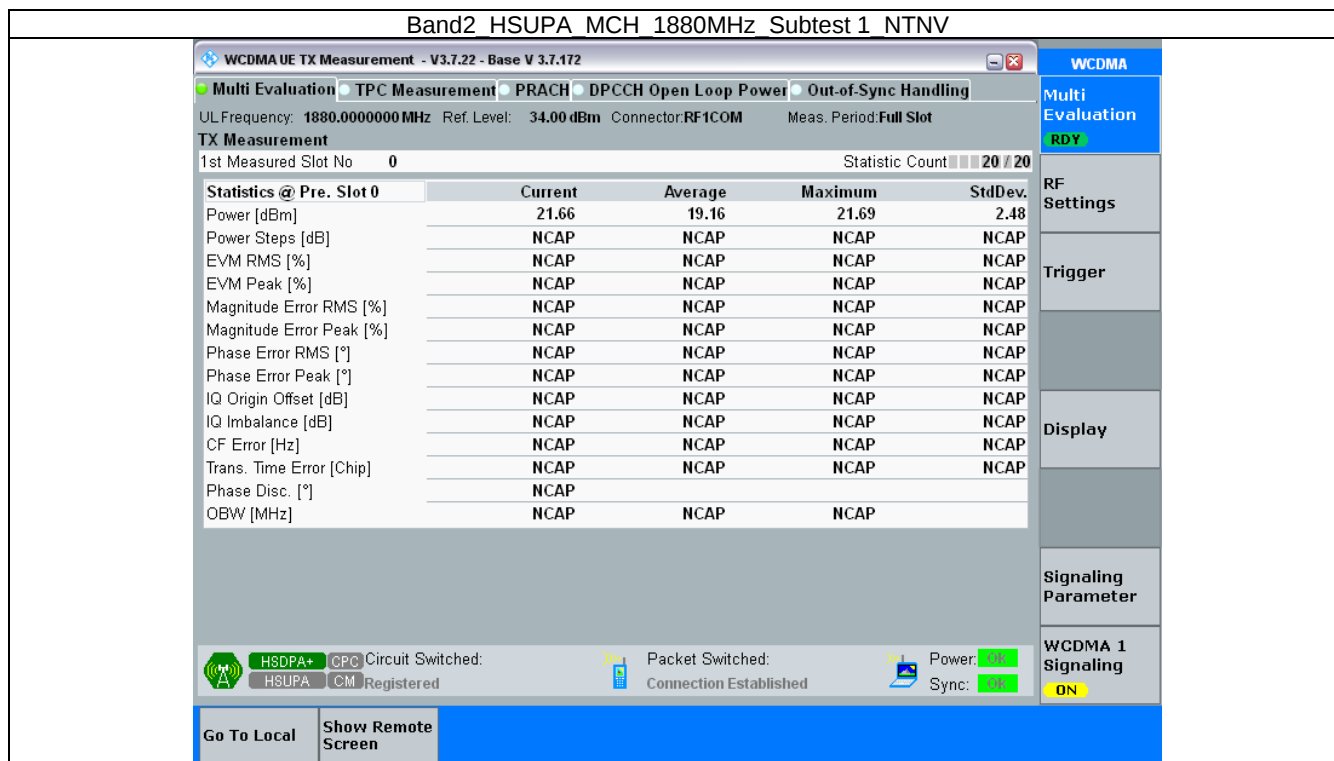
Display

Signaling Parameter

WCDMA 1 Signaling

ON

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4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band2_OBW

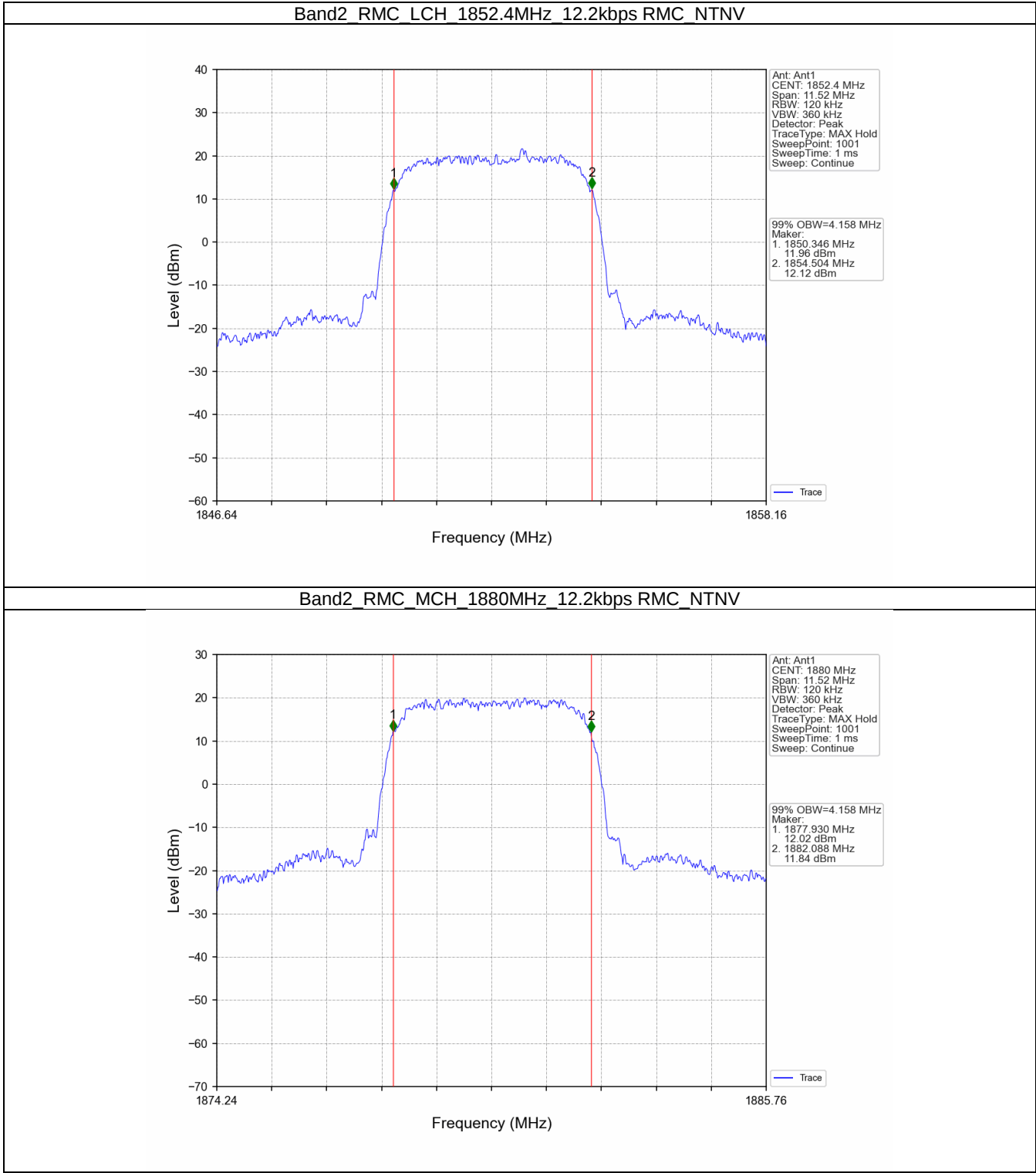
Band: 2						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.158	/	Pass
			1880	4.158	/	Pass
			1907.6	4.140	/	Pass
	HSDPA	Subtest 1	1852.4	4.155	/	Pass
			1880	4.171	/	Pass
			1907.6	4.188	/	Pass
	HSUPA	Subtest 1	1852.4	4.154	/	Pass
			1880	4.130	/	Pass

4.1.2 Band2_XDB

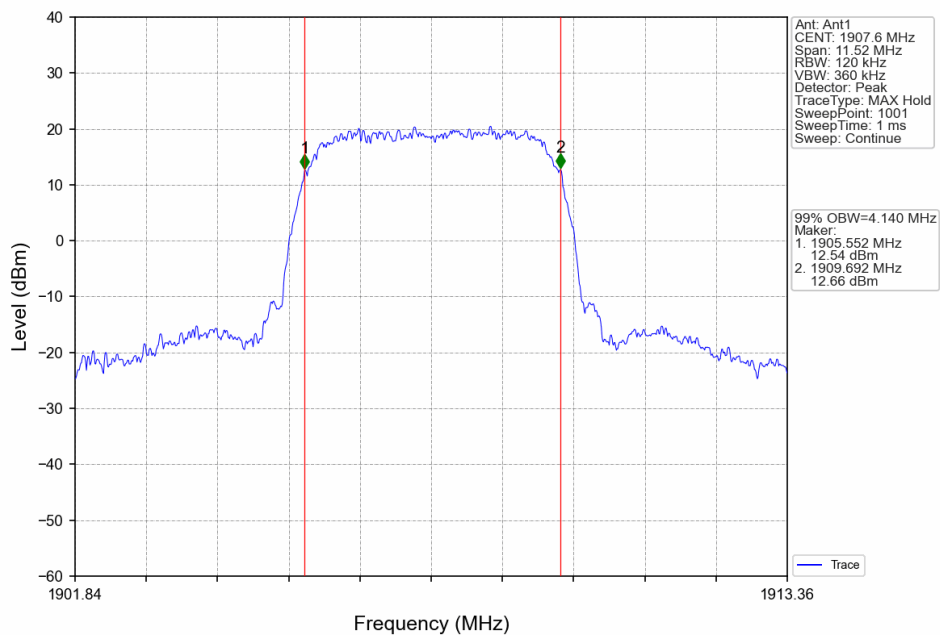
Band: 2						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.719	/	Pass
			1880	4.746	/	Pass
			1907.6	4.746	/	Pass
	HSDPA	Subtest 1	1852.4	4.768	/	Pass
			1880	4.747	/	Pass
			1907.6	4.686	/	Pass
	HSUPA	Subtest 1	1852.4	4.762	/	Pass
			1880	4.739	/	Pass

4.2 Test Graph

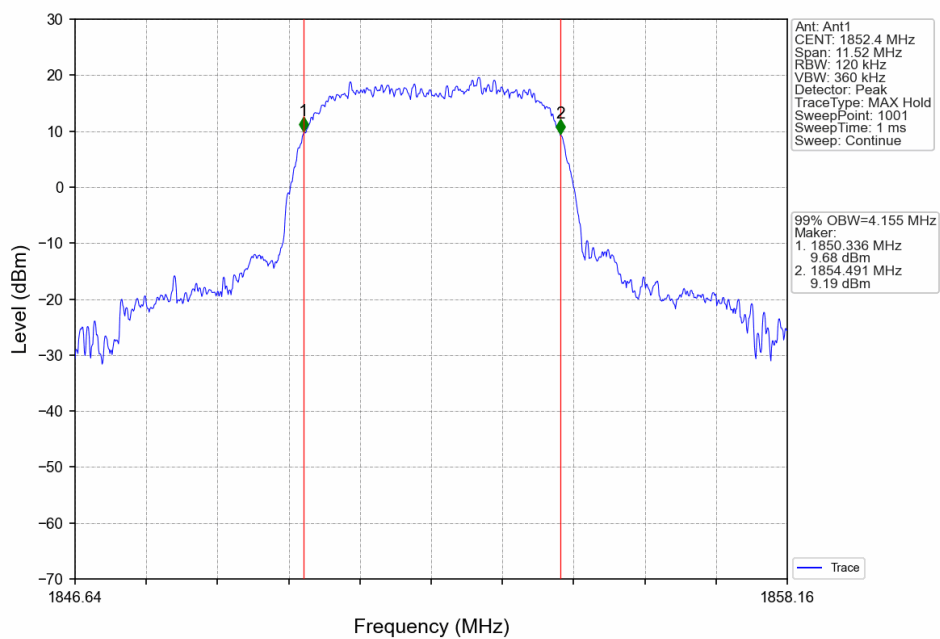
4.2.1 Band2_OBW



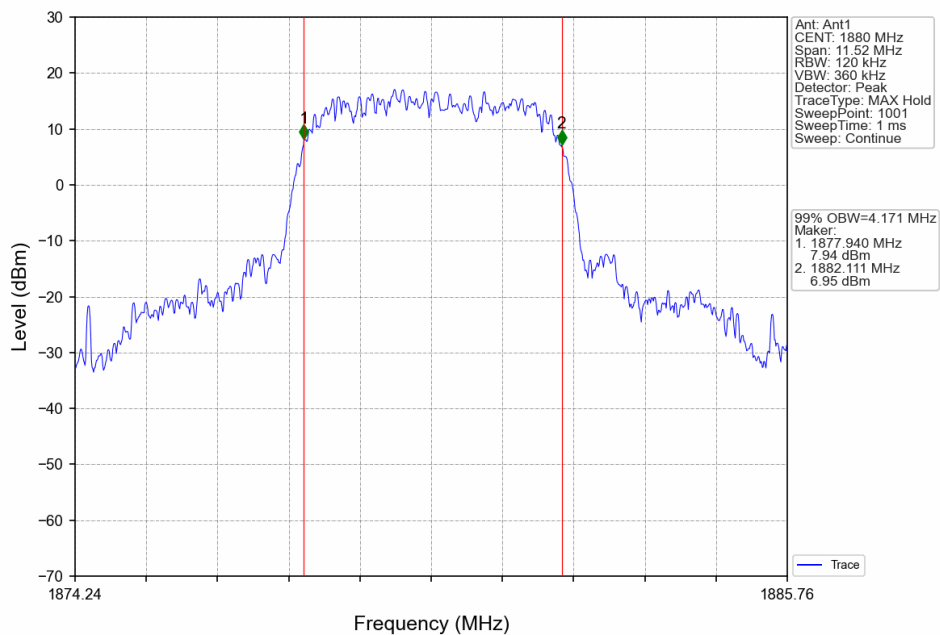
Band2_RMC_HCH_1907.6MHz_12.2kbps_RMC_NTNV



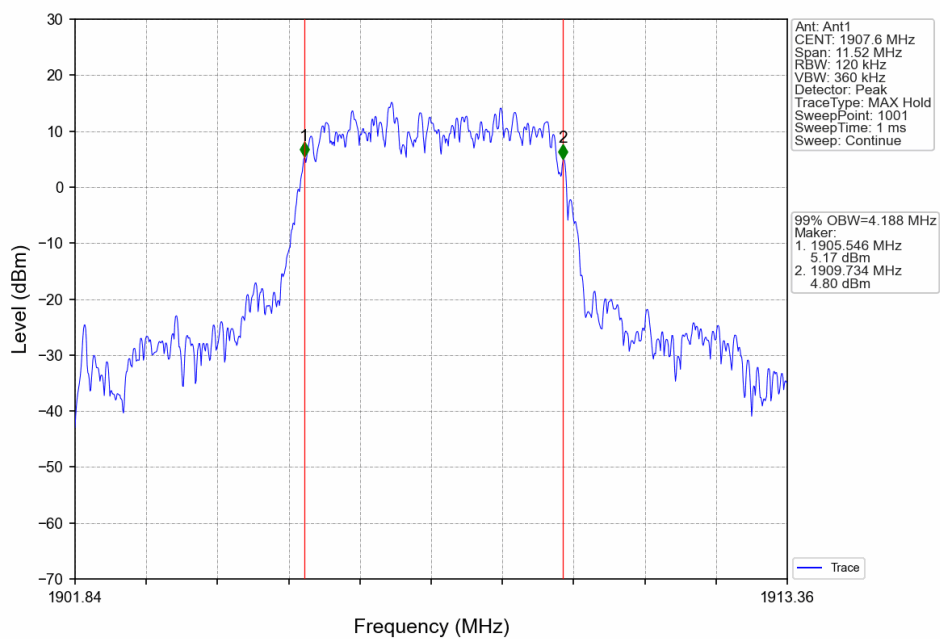
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



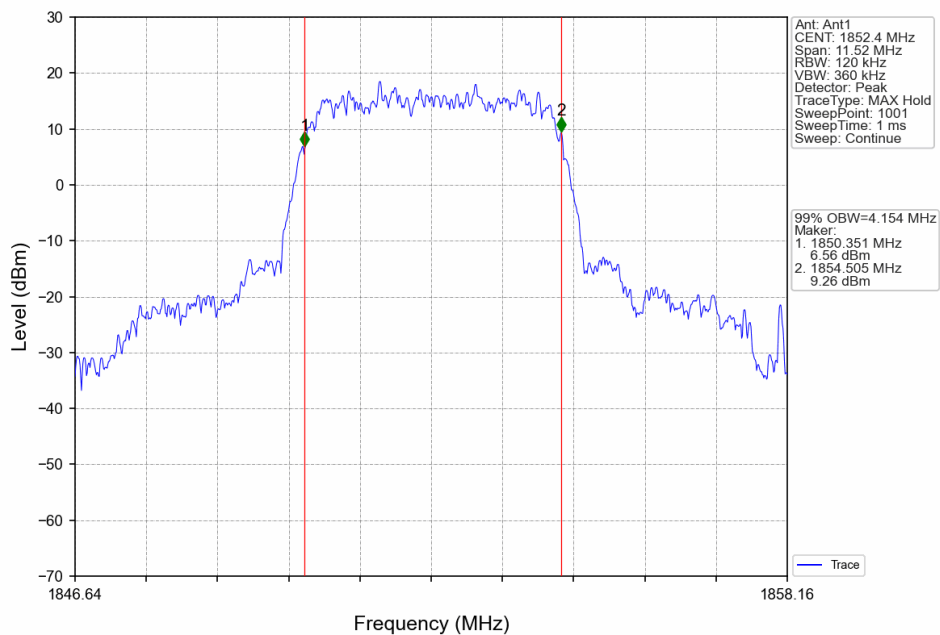
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



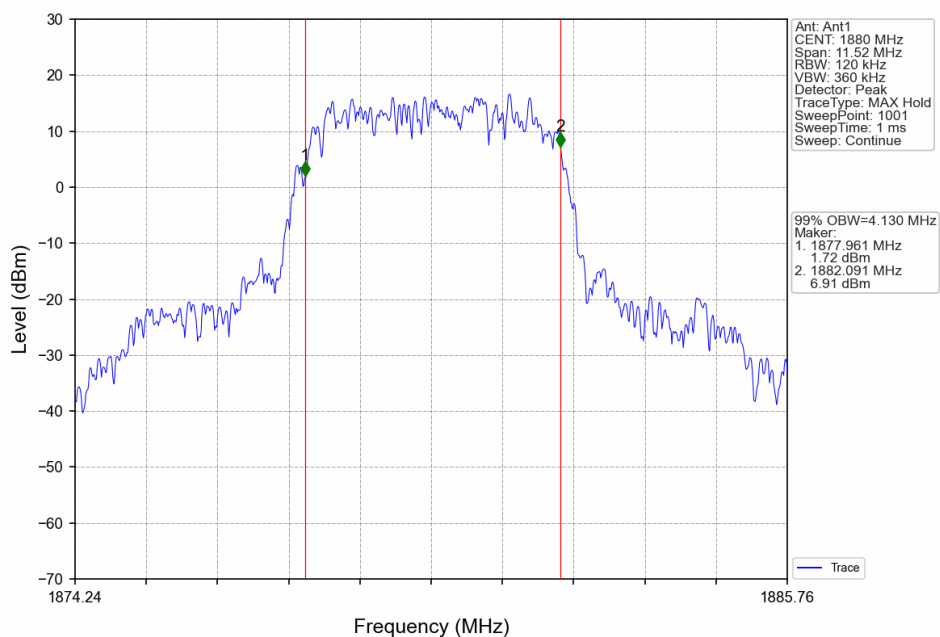
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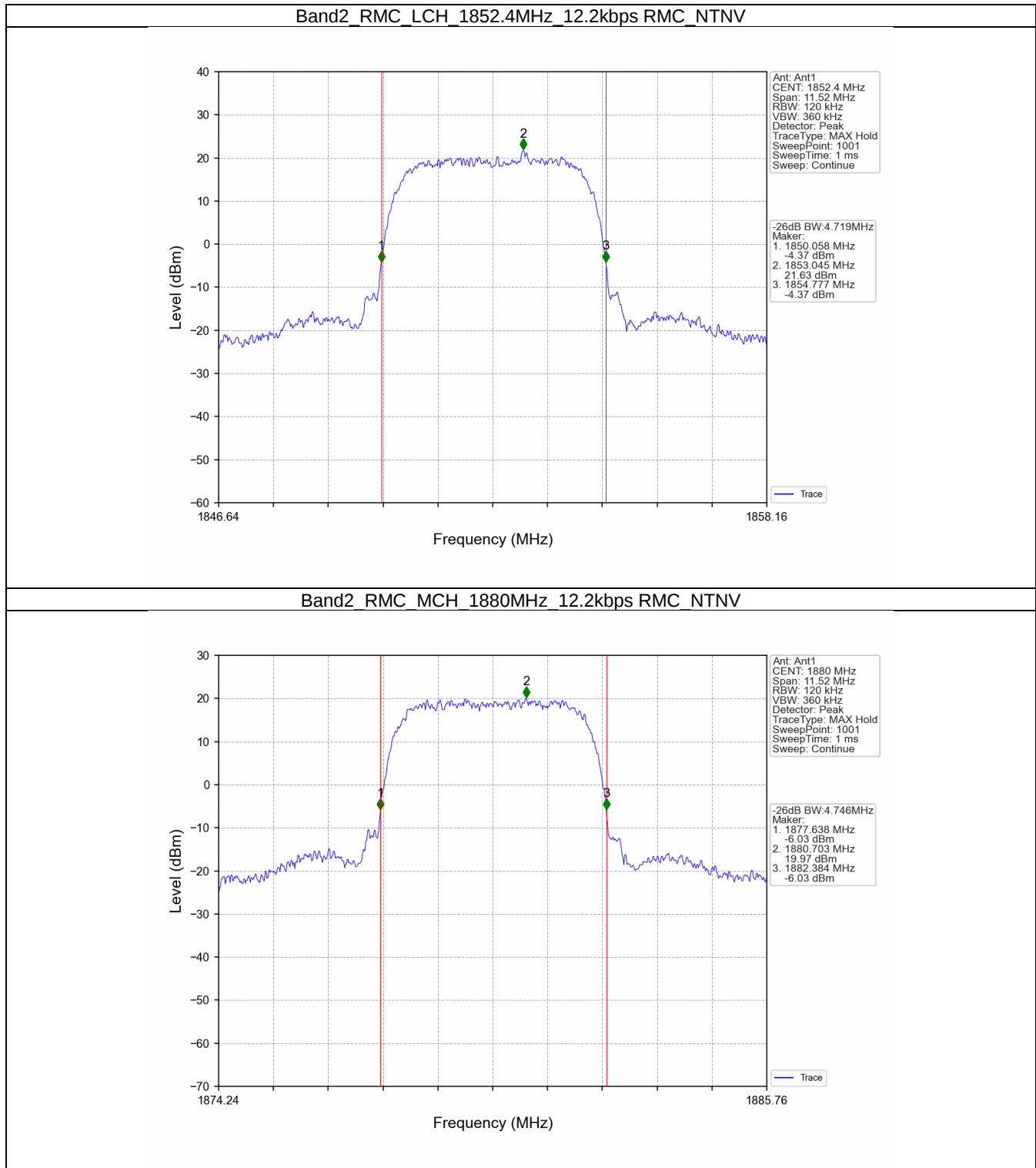
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



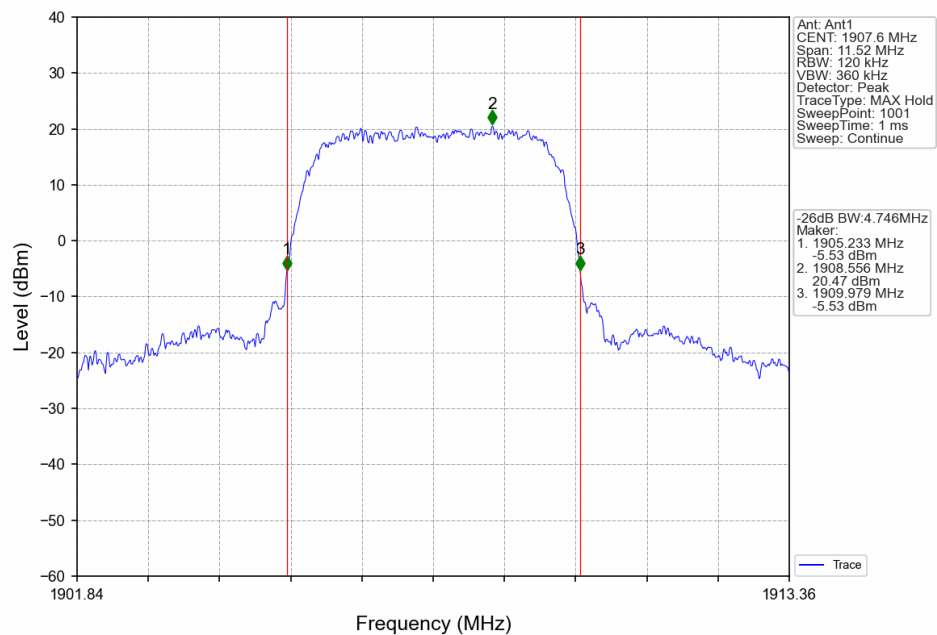
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



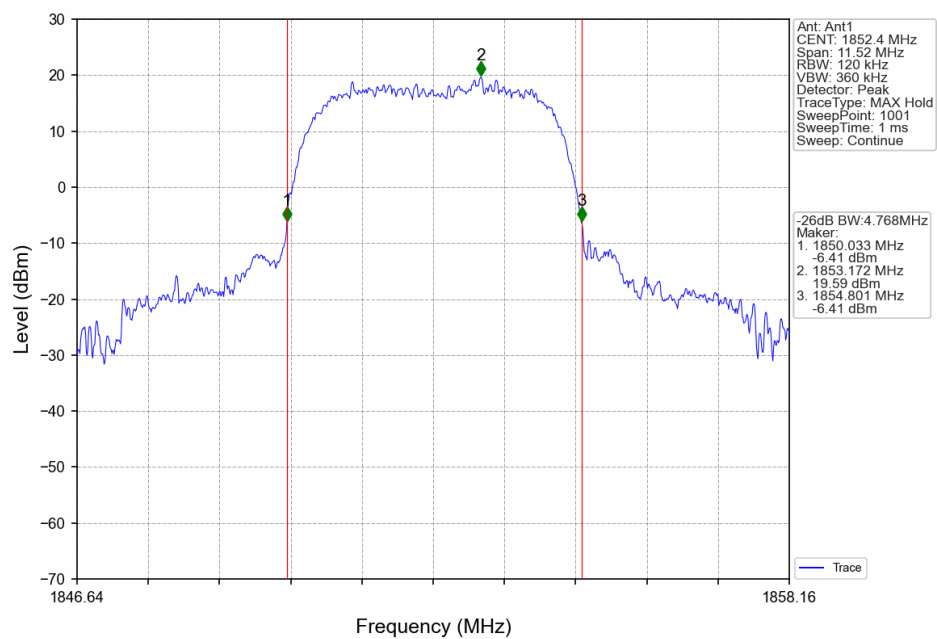
4.2.2 Band2_XDB



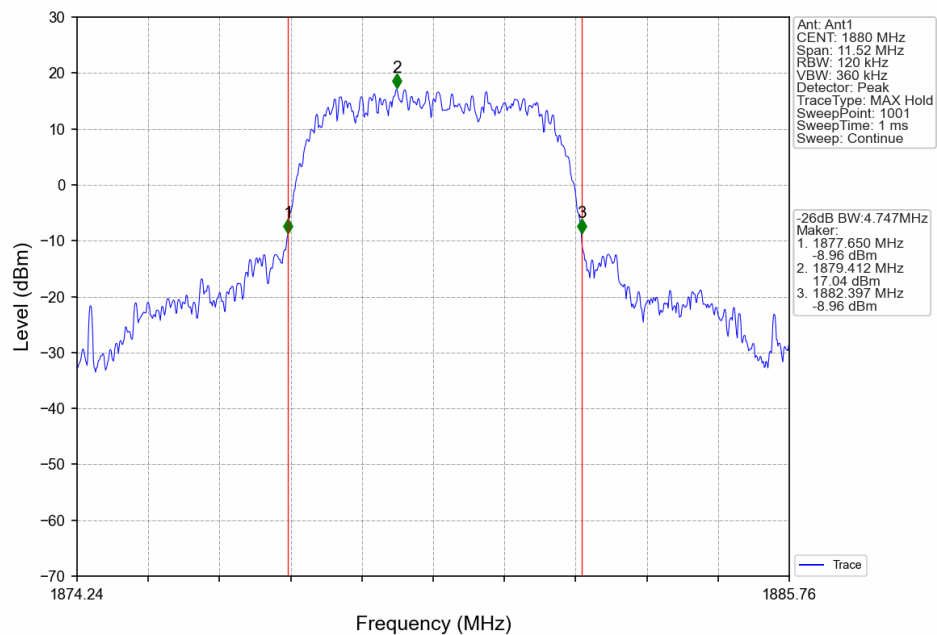
Band2_RMC_HCH_1907.6MHz_12.2kbps_RMC_NTNV



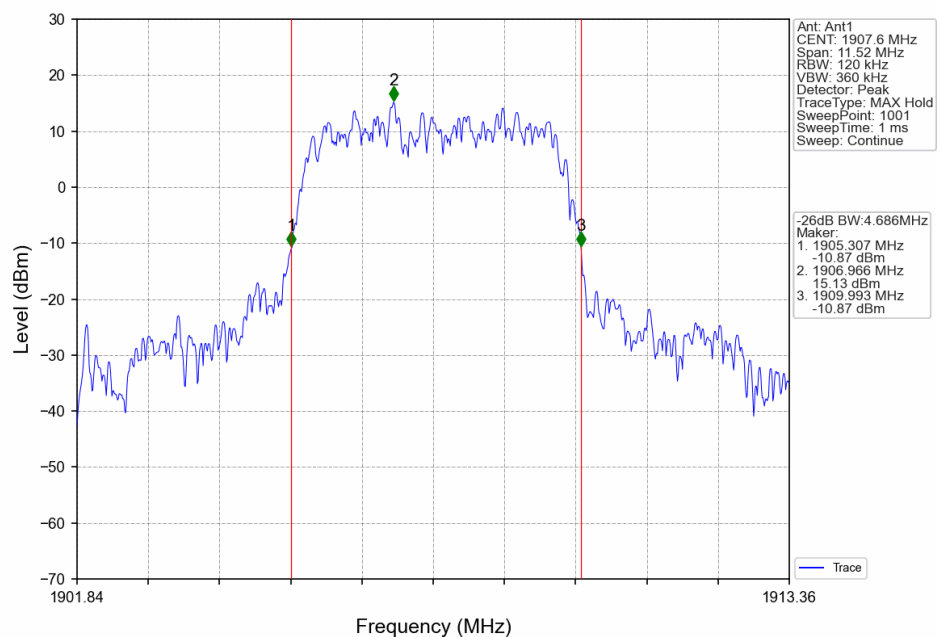
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



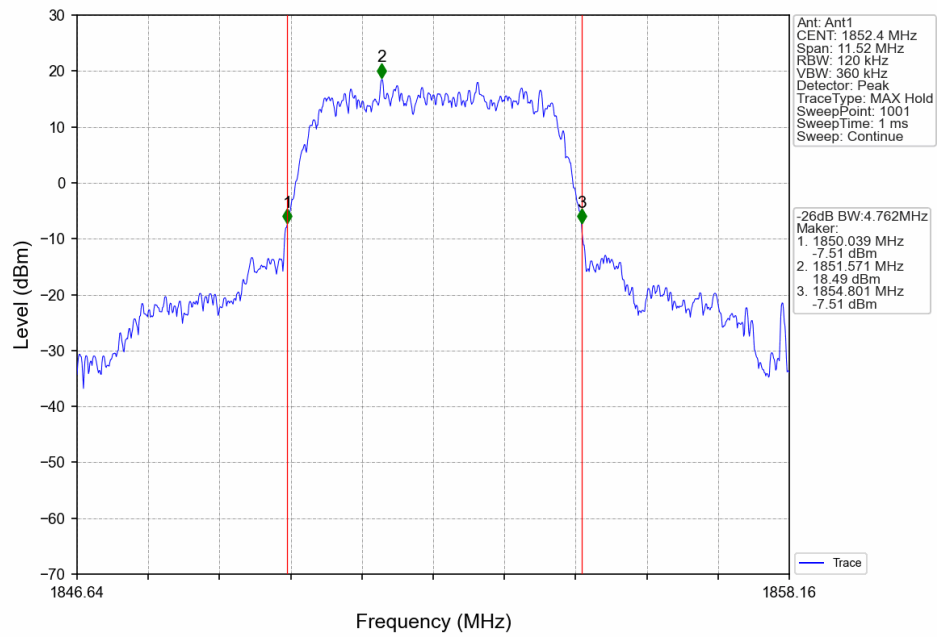
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



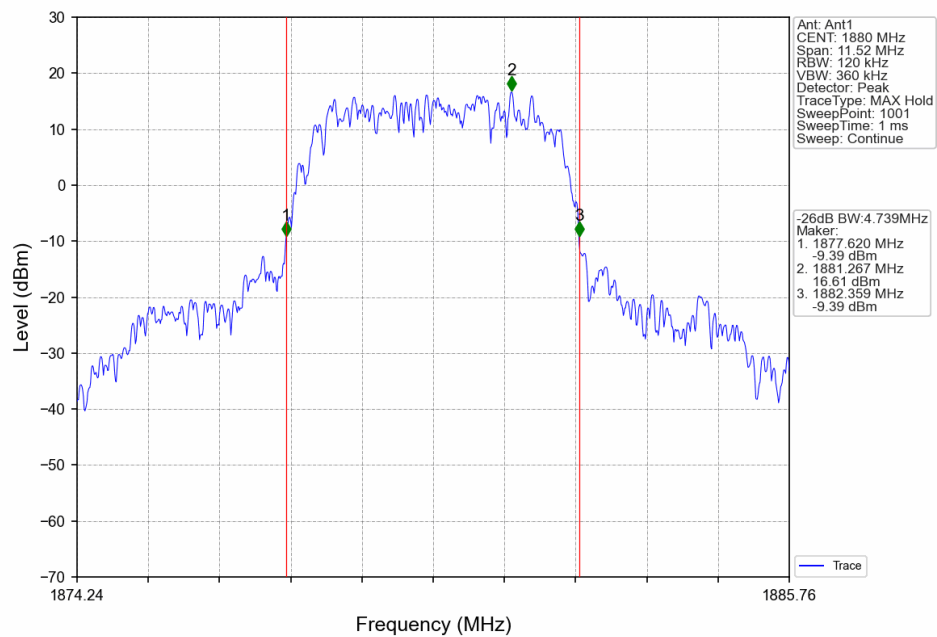
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Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



5. Peak-Average Ratio

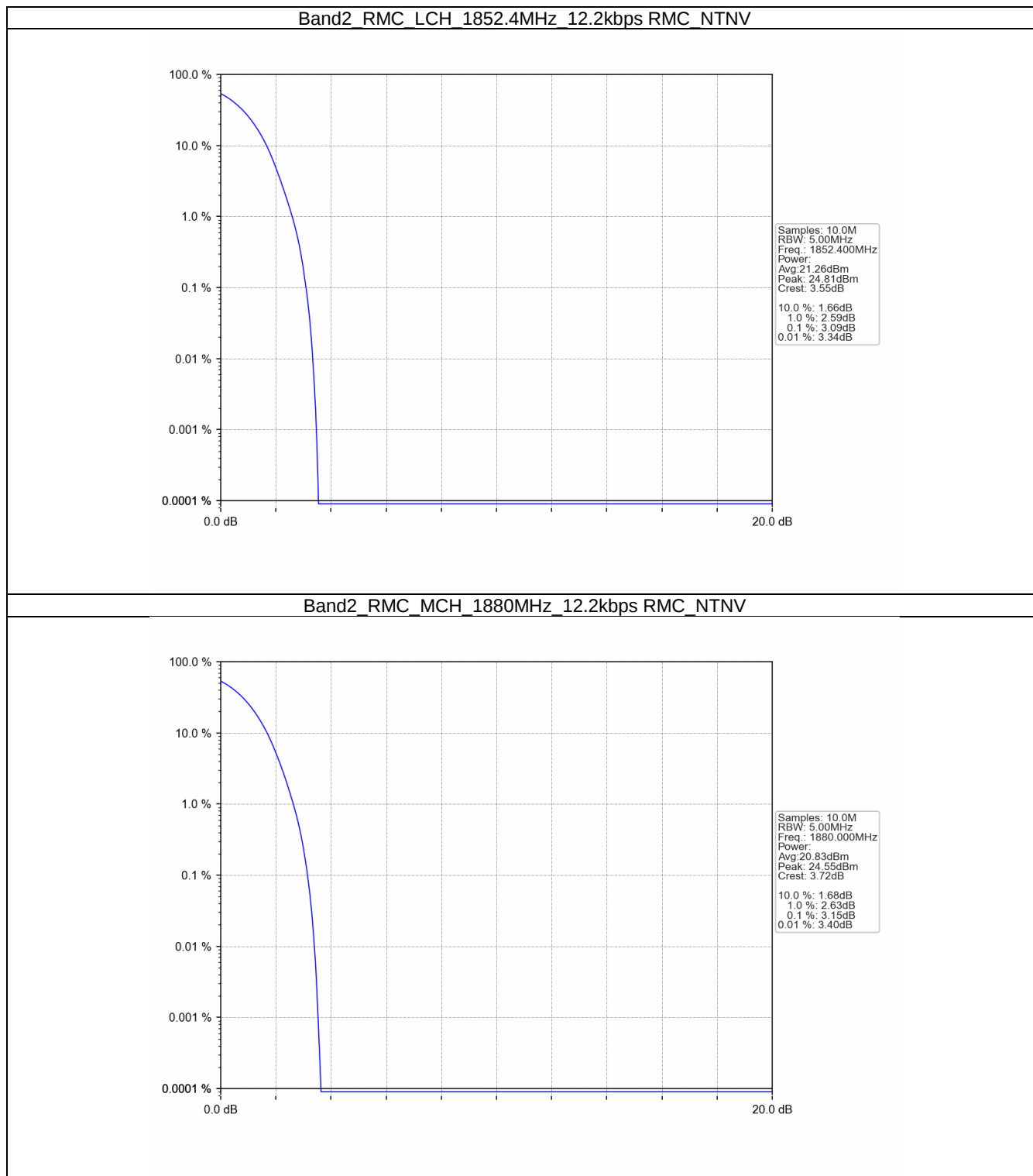
5.1 Test Result

5.1.1 Band2

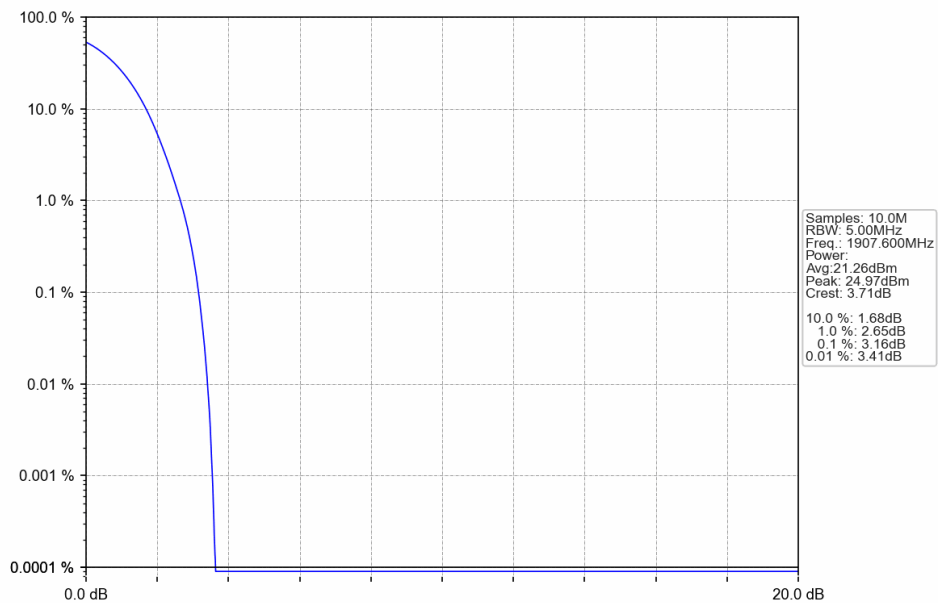
Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	3.09	<=13	Pass
			1880	3.15	<=13	Pass
			1907.6	3.16	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.93	<=13	Pass
			1880	5.86	<=13	Pass
			1907.6	5.92	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.60	<=13	Pass
			1880	5.63	<=13	Pass
			1907.6	5.96	<=13	Pass

5.2 Test Graph

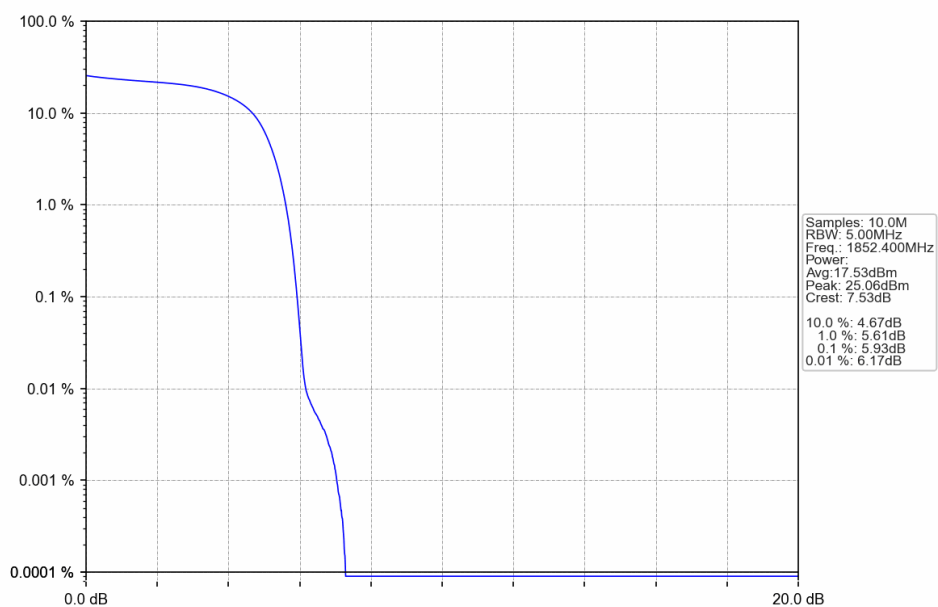
5.2.1 Band2



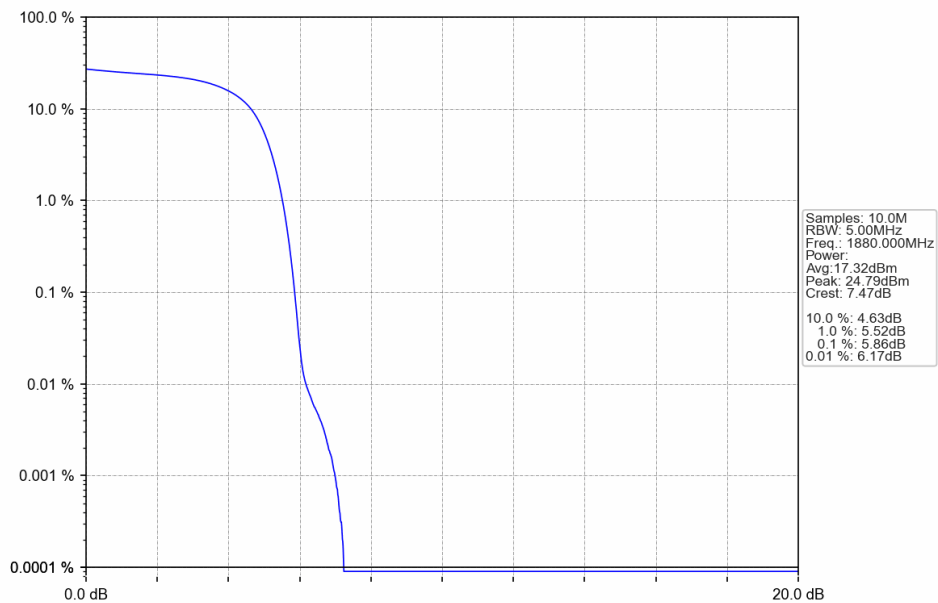
Band2_RMC_HCH_1907.6MHz_12.2kbps_RMC_NTNV



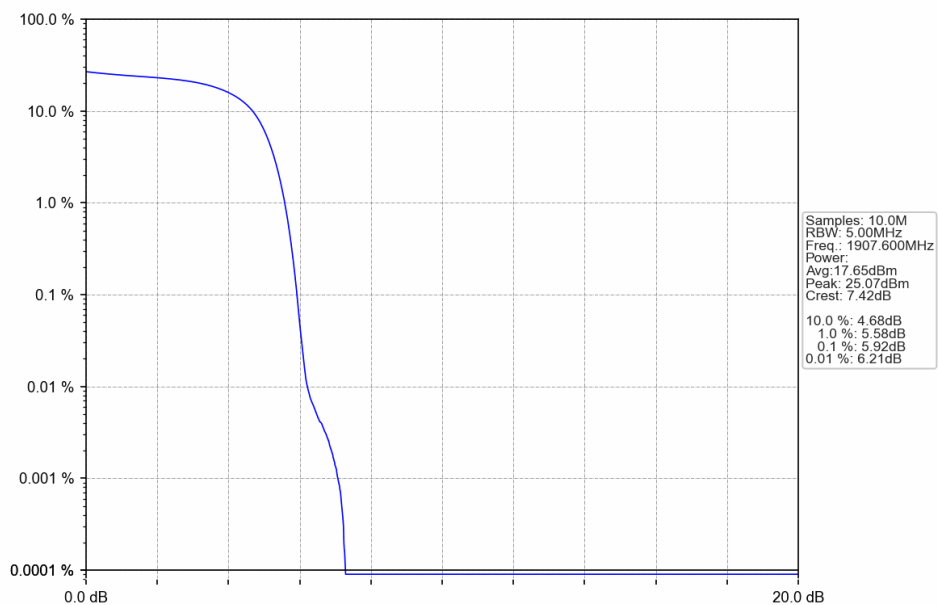
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



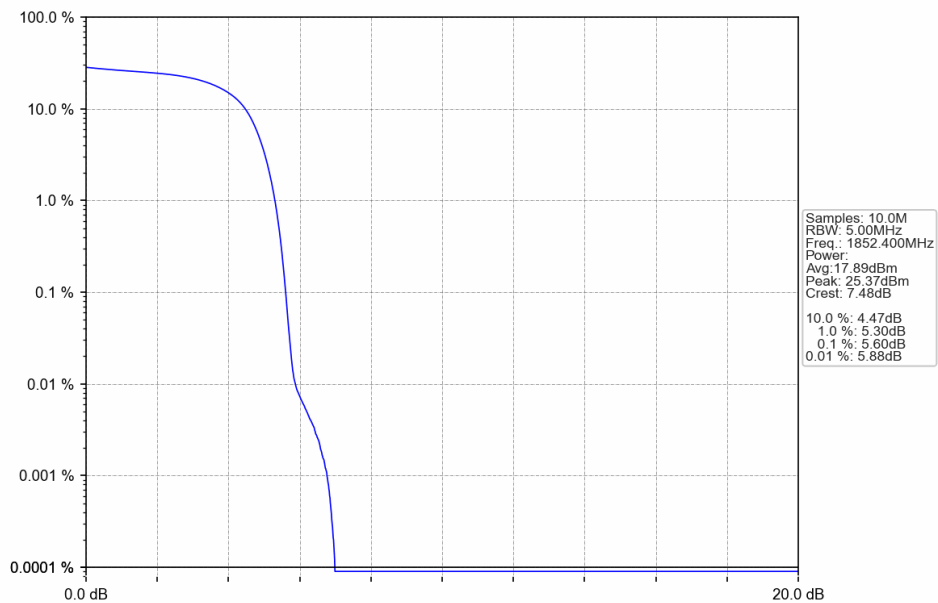
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



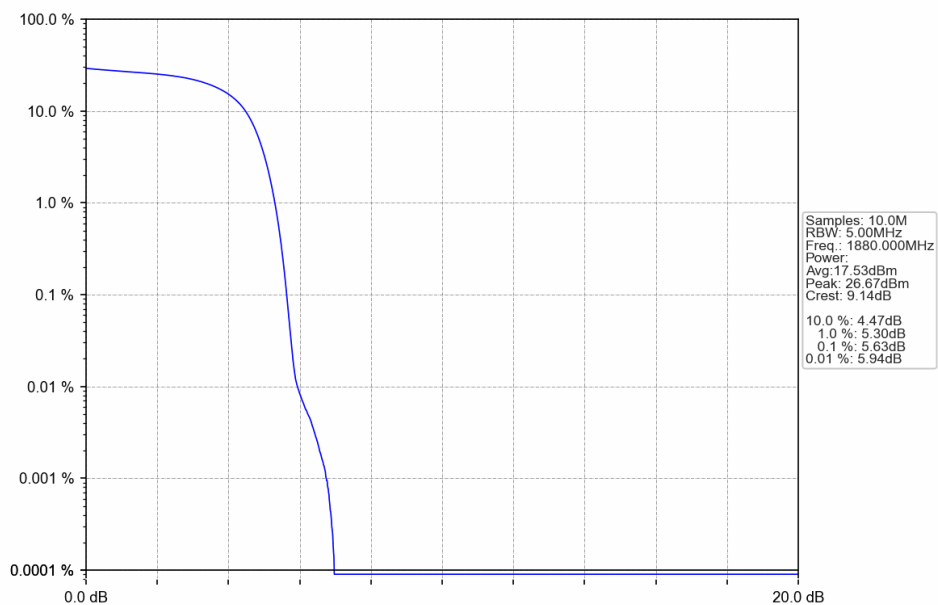
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

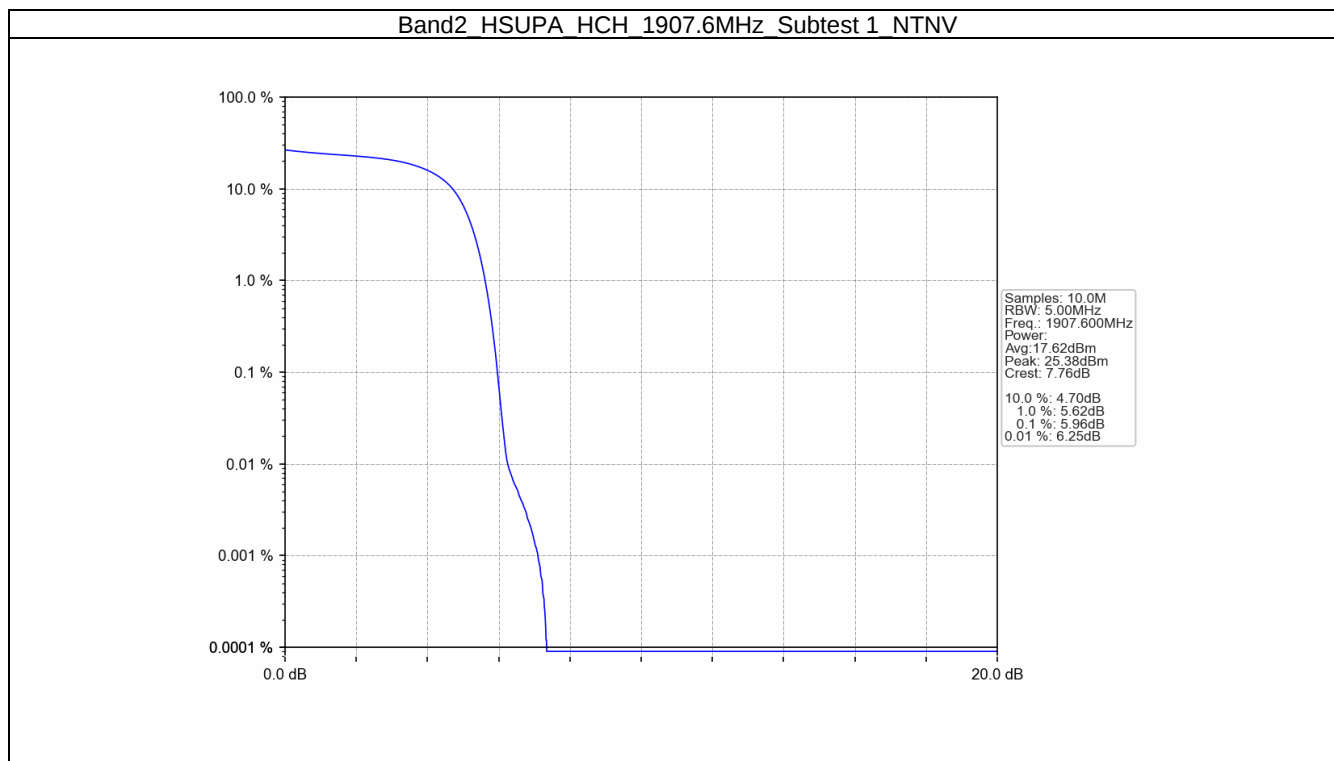


Band2 HSUPA LCH 1852.4MHz Subtest 1 NTNV



Band2 HSUPA MCH 1880MHz Subtest 1 NTNV





6. Spurious Emission

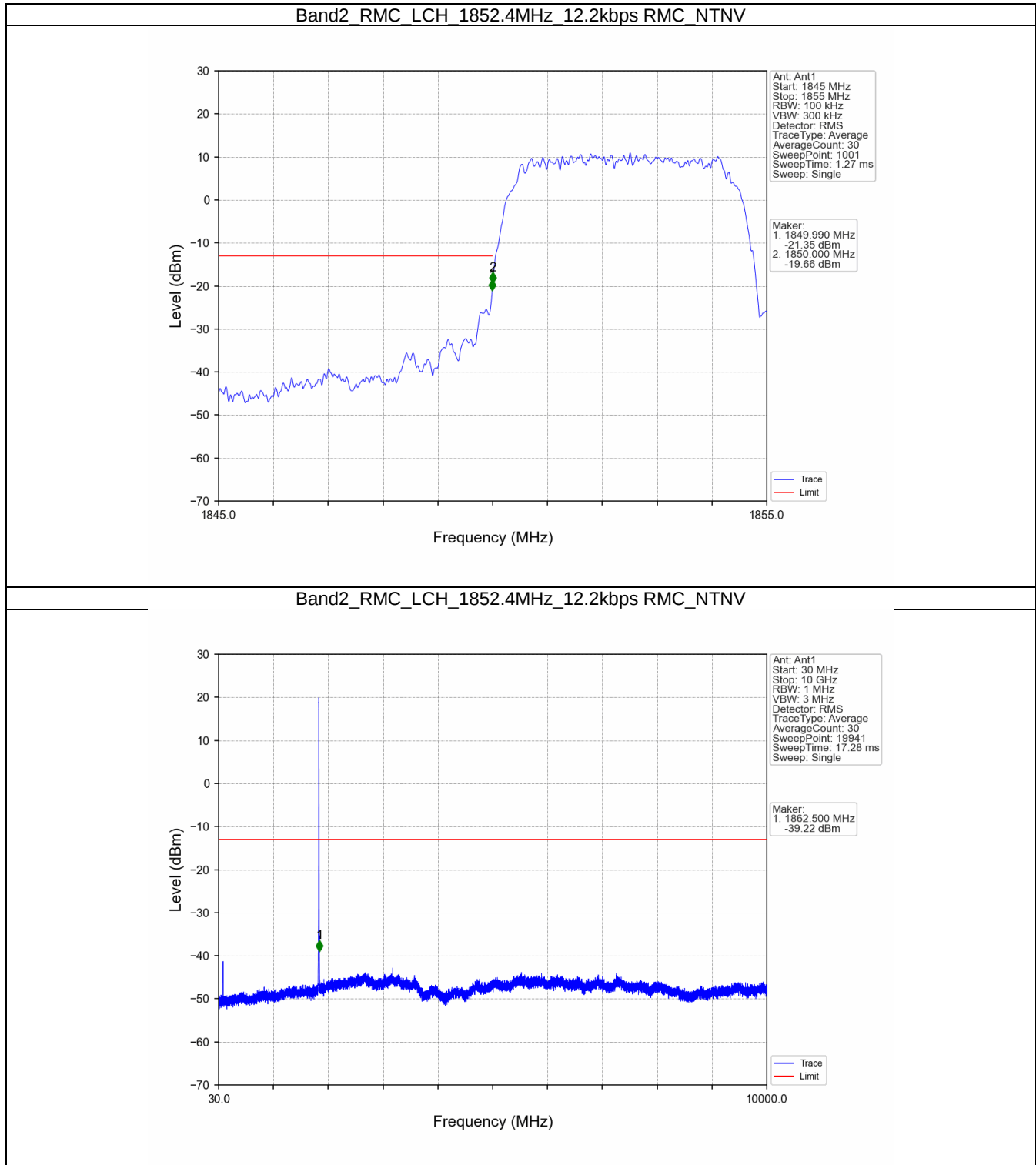
6.1 Test Result

6.1.1 Band2

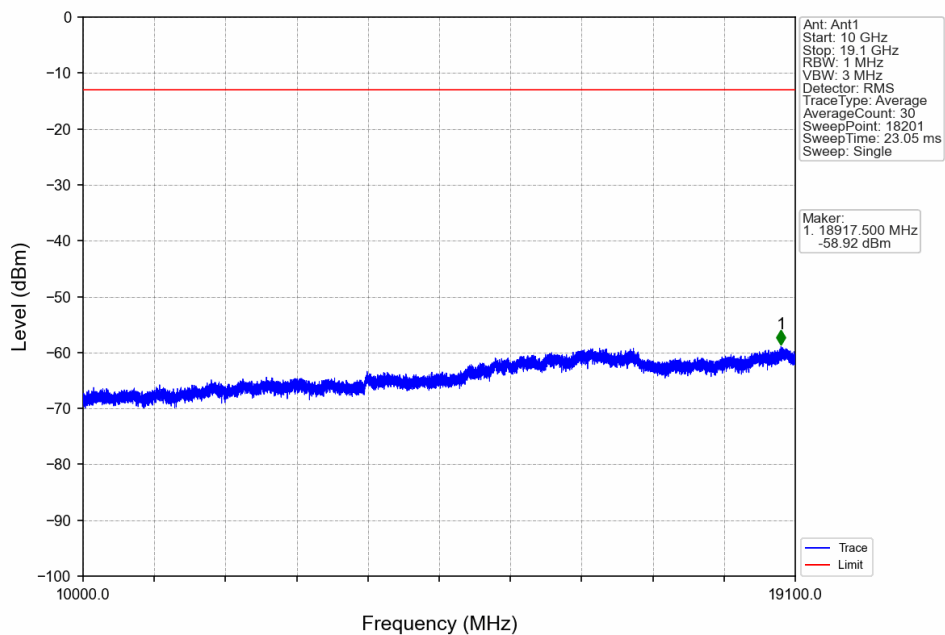
Band: 2						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	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	

6.2 Test Graph

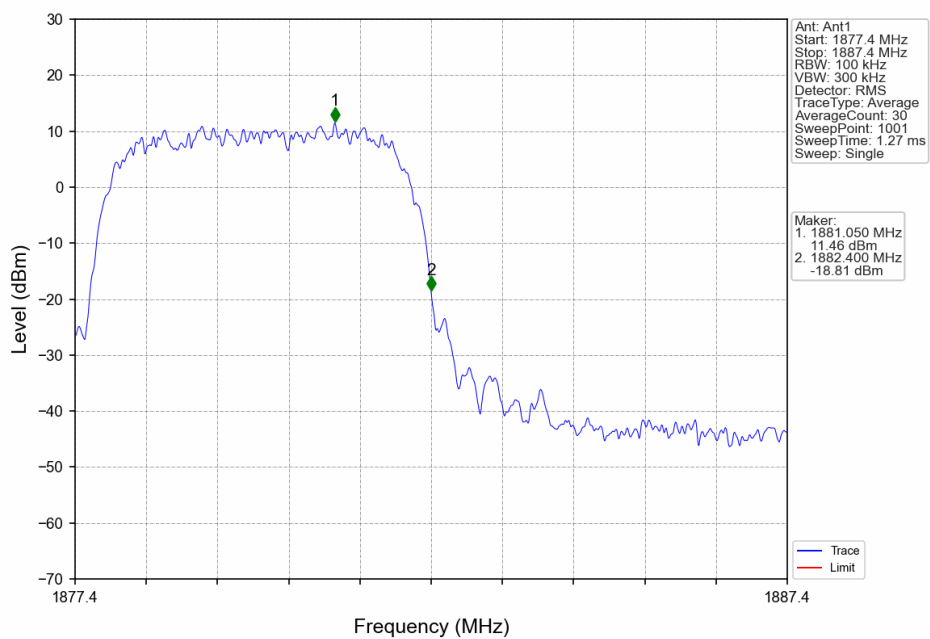
6.2.1 Band2



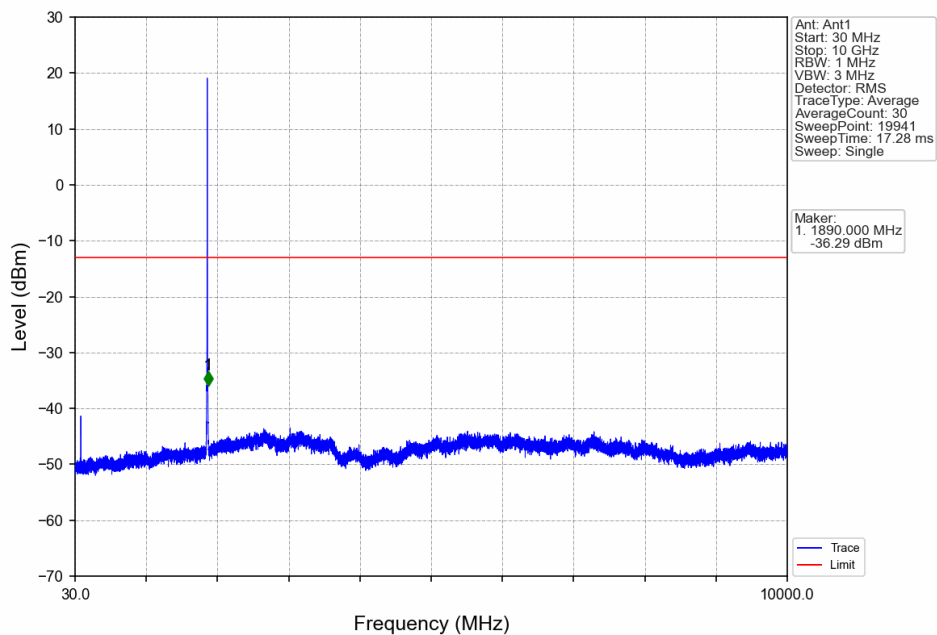
Band2_RMC_LCH_1852.4MHz_12.2kbps_RMC_NTNV



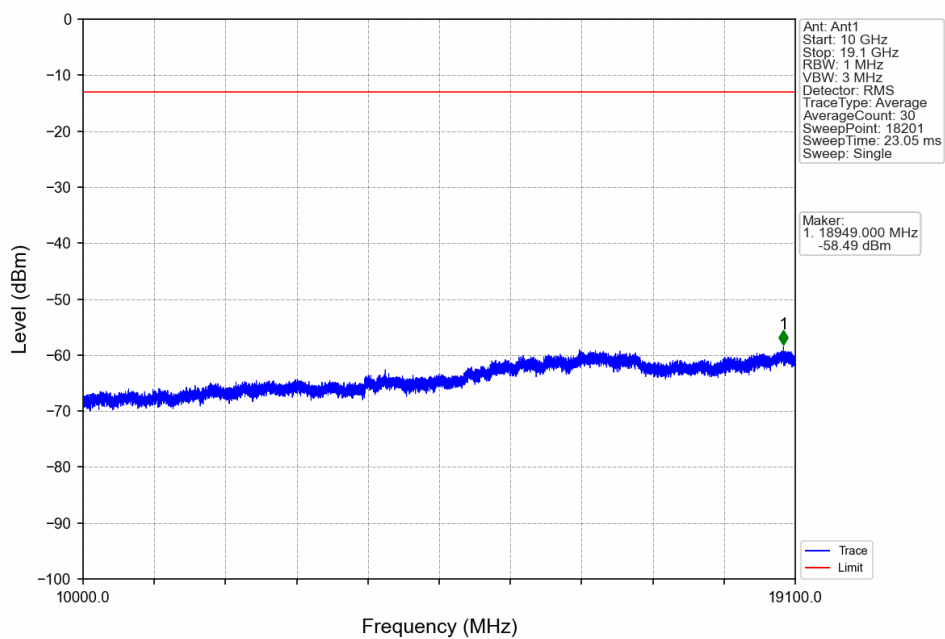
Band2_RMC_MCH_1880MHz_12.2kbps_RMC_NTNV



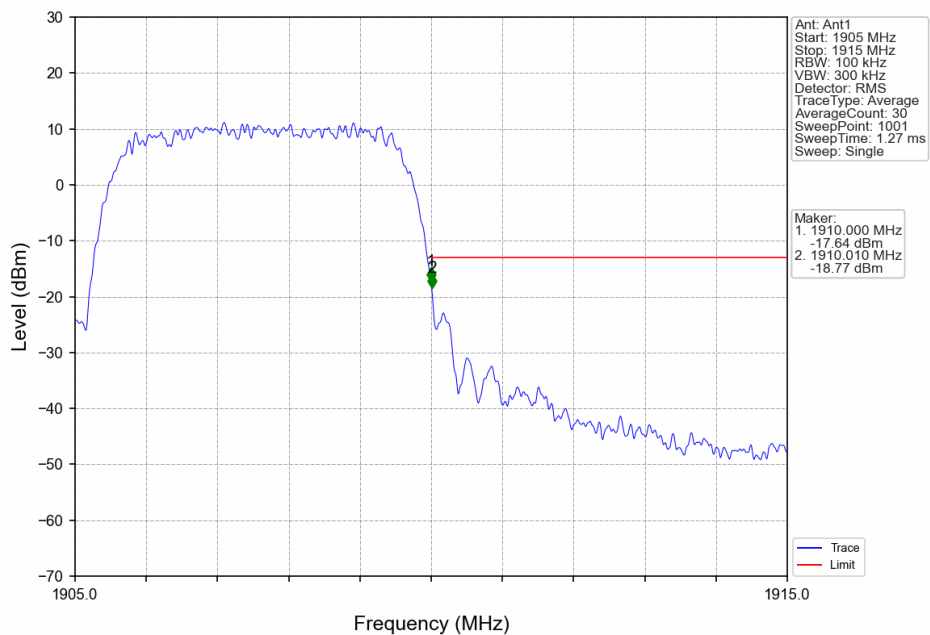
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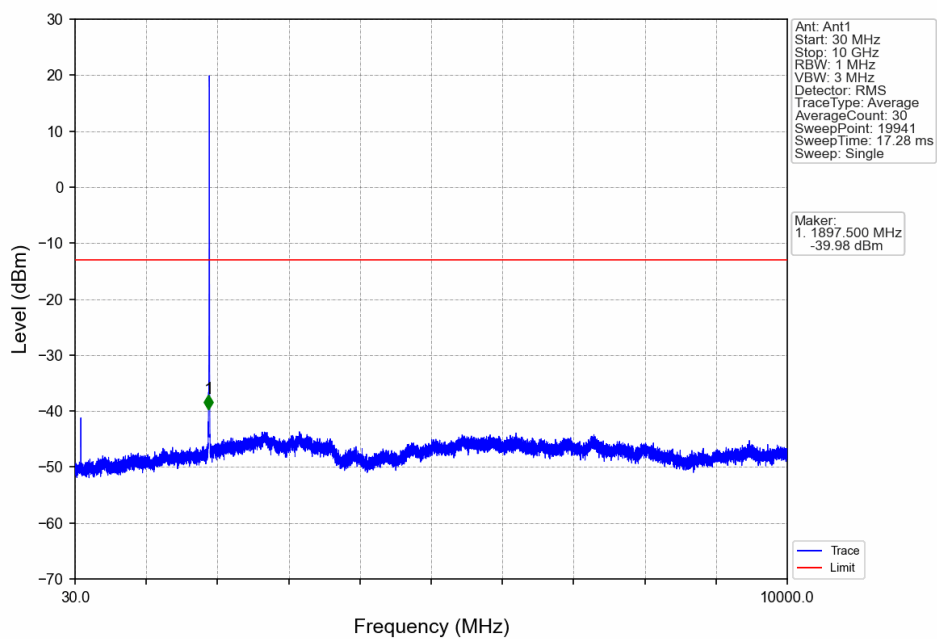
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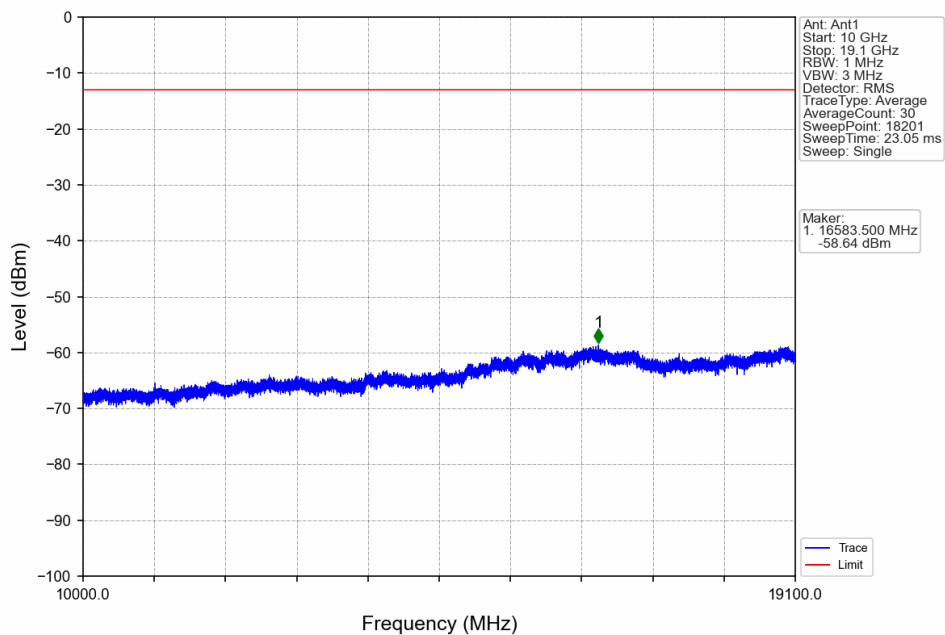
Band2_RMC_HCH_1907.6MHz_12.2kbps_RMC_NTNV



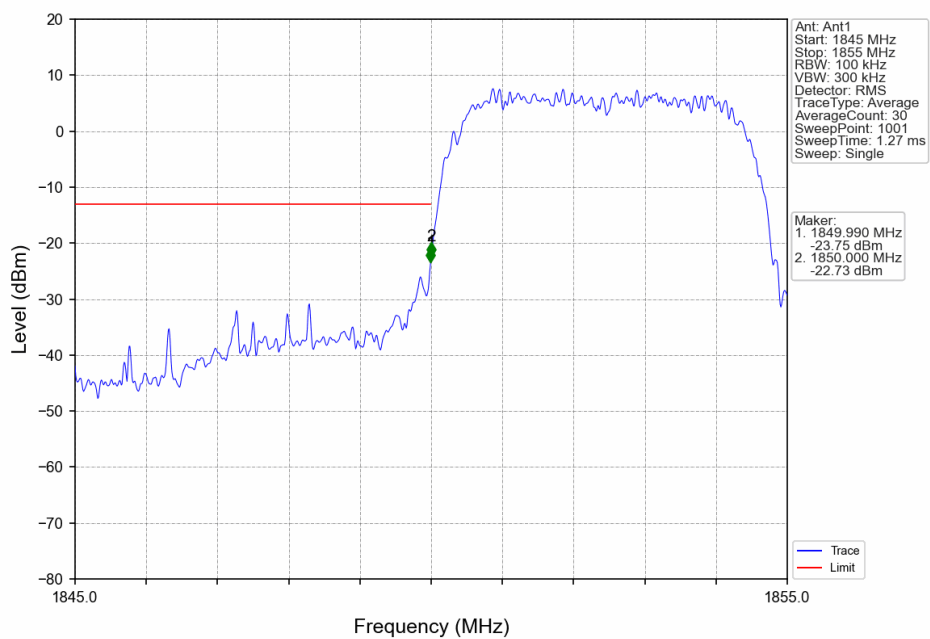
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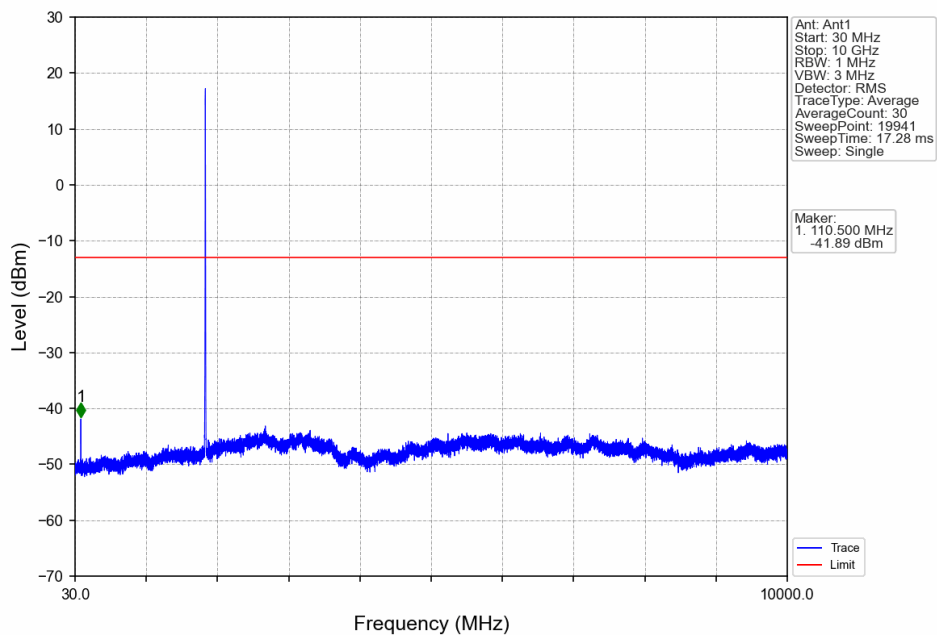
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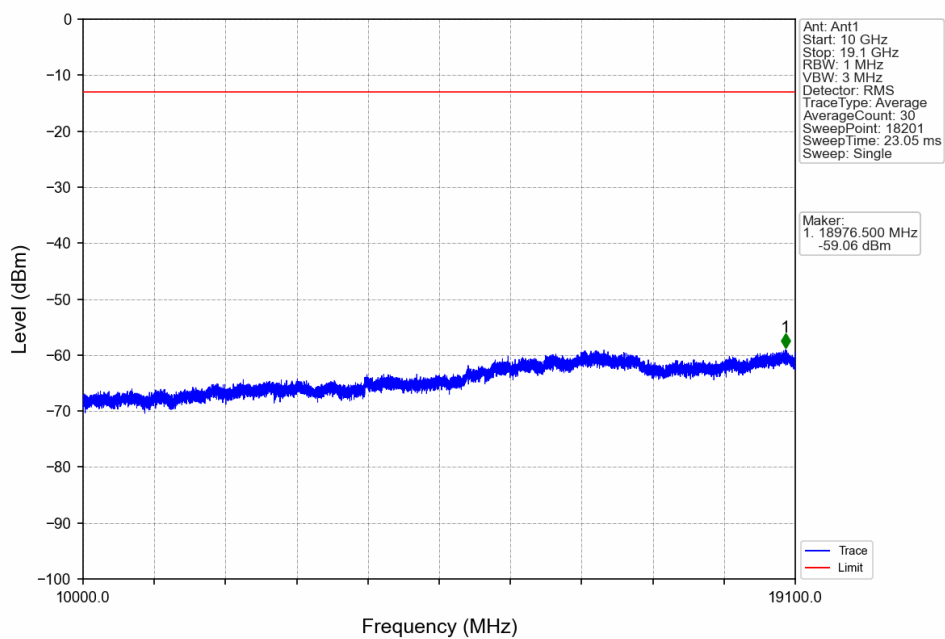
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



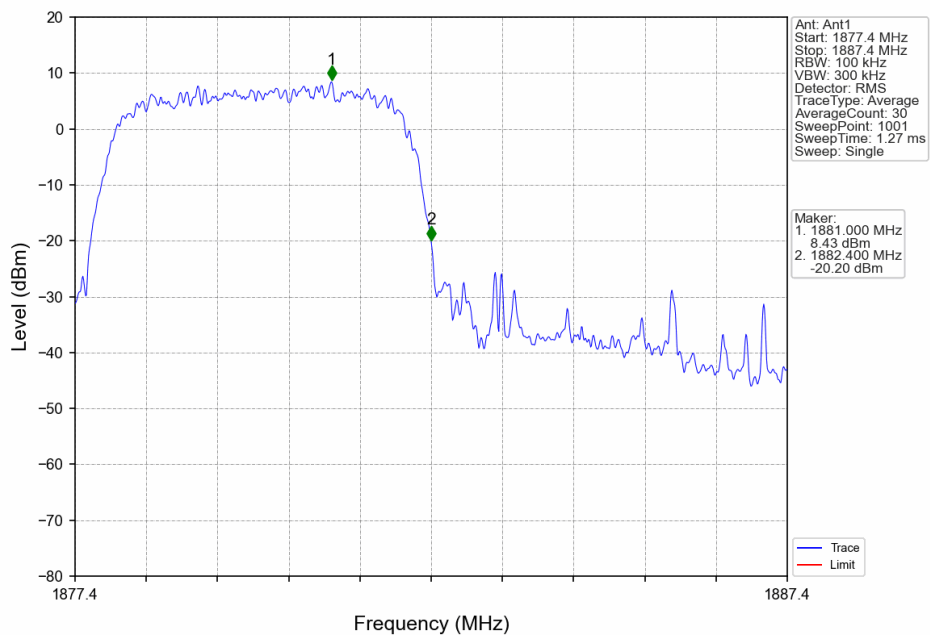
Band2 HSDPA LCH 1852.4MHz Subtest 1 NTNV



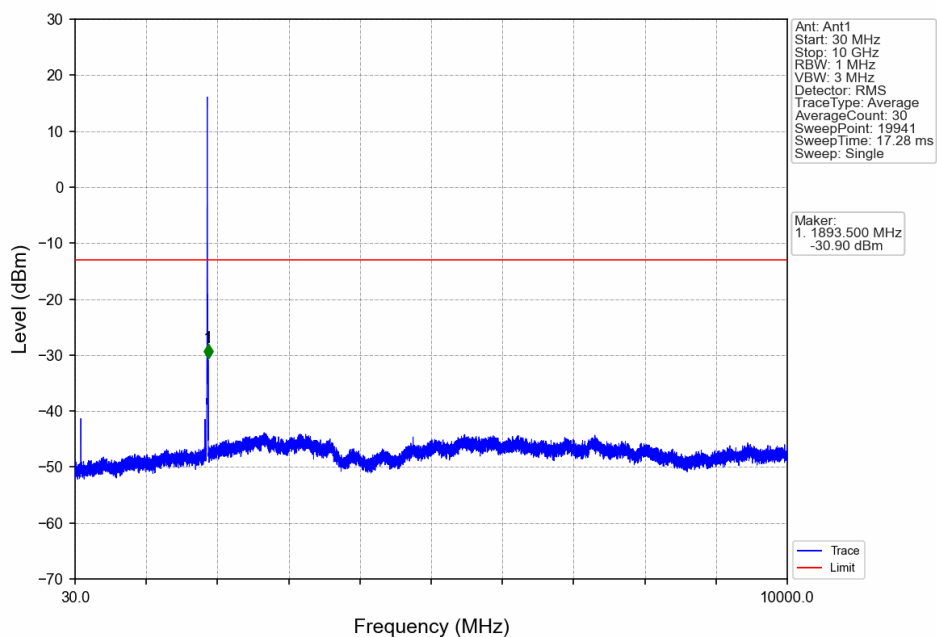
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



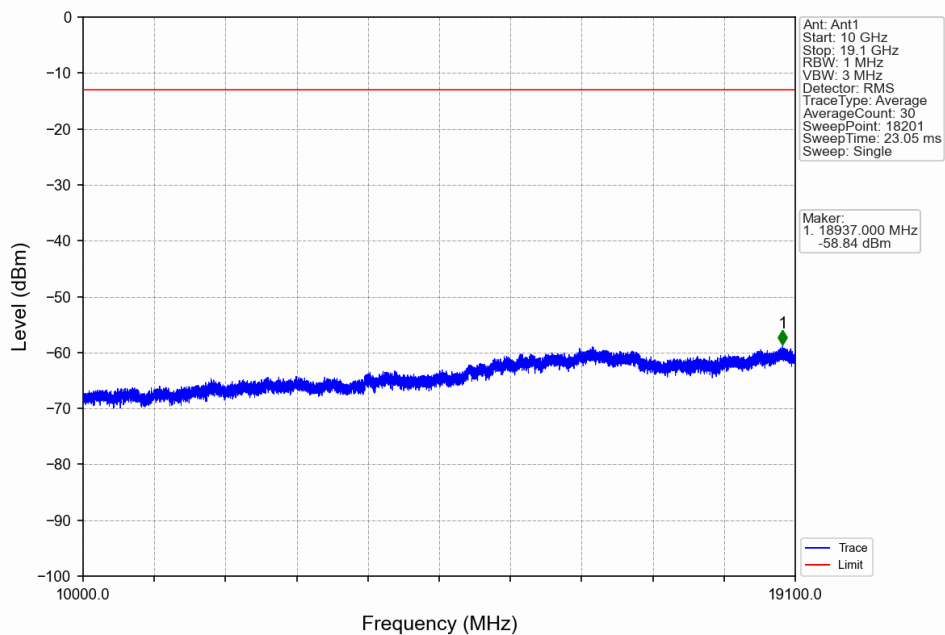
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



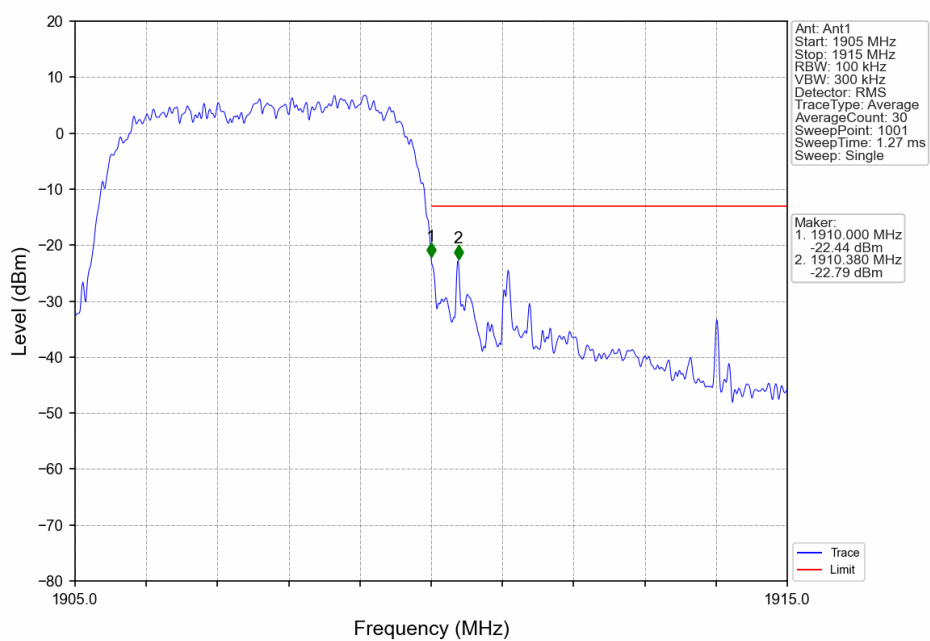
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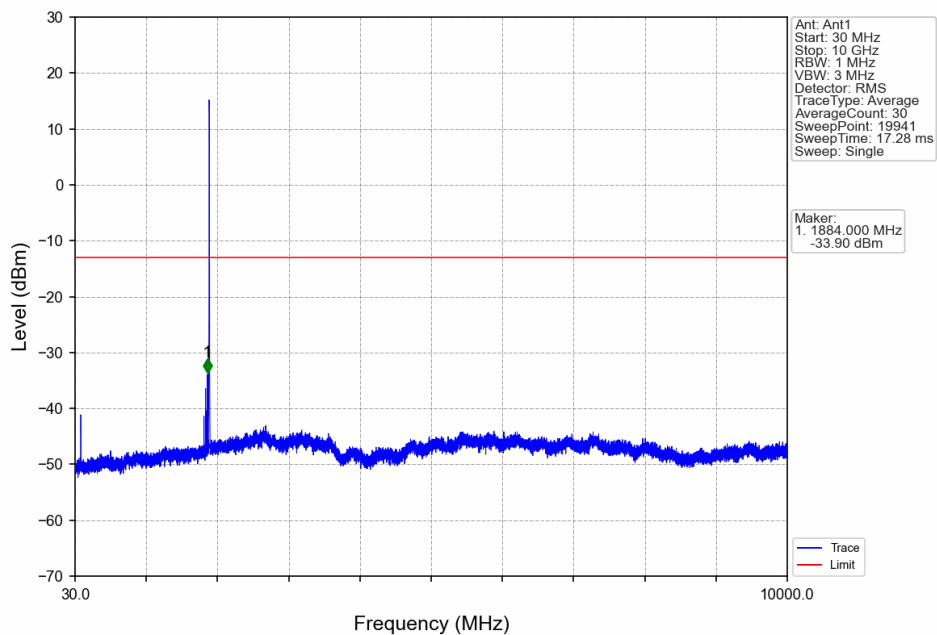
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



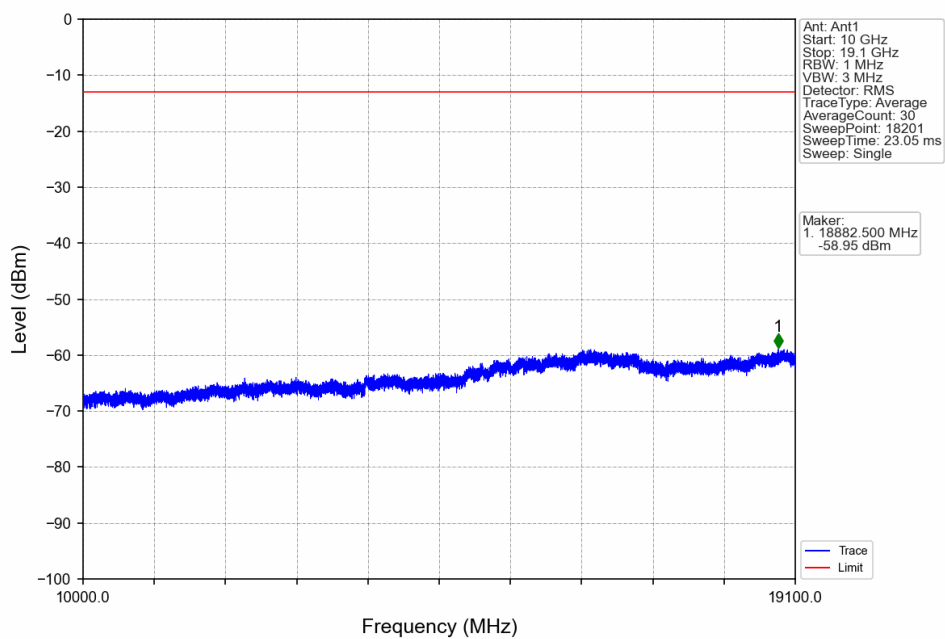
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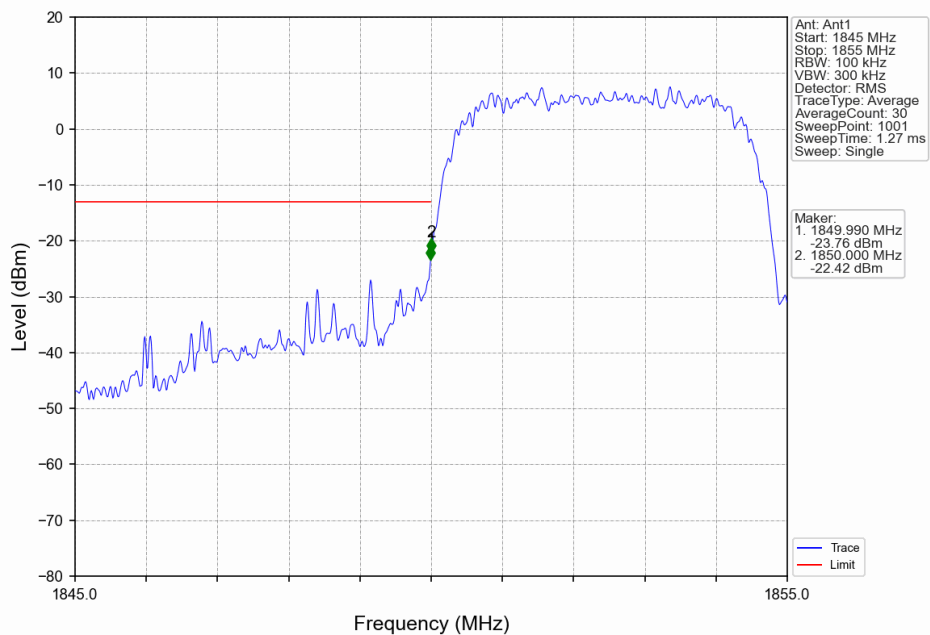
Band2 HSDPA HCH 1907.6MHz Subtest 1 NTNV



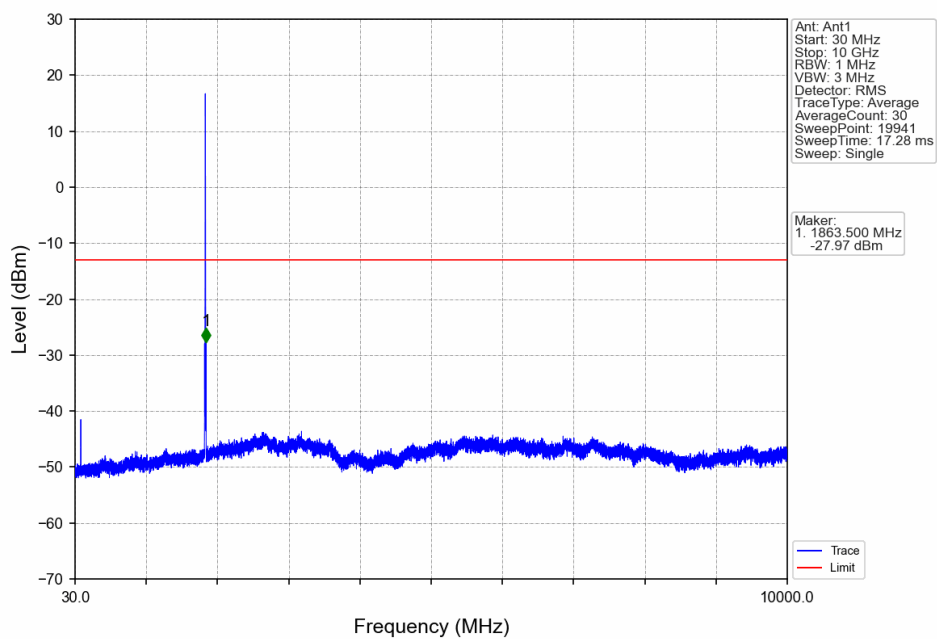
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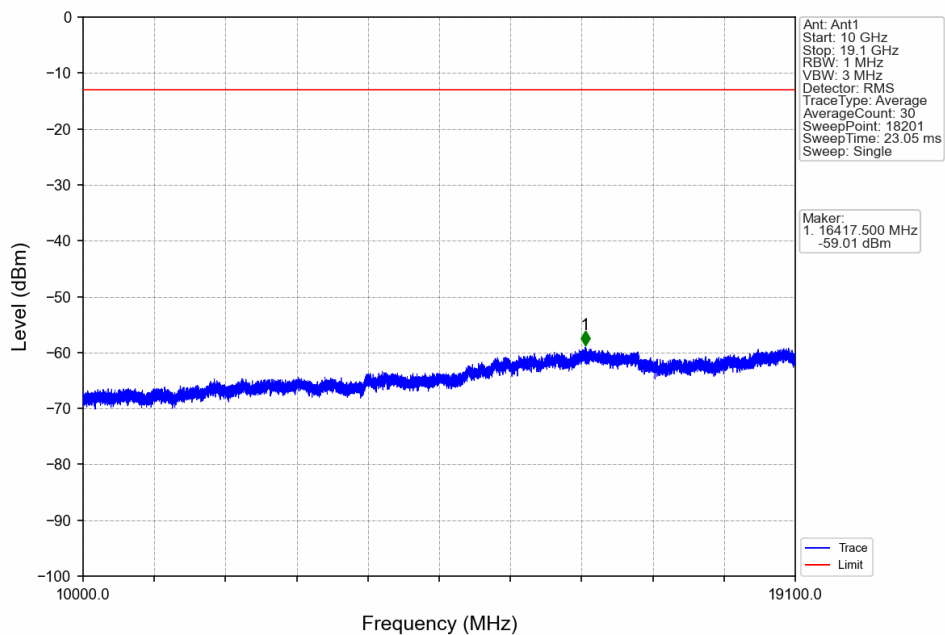
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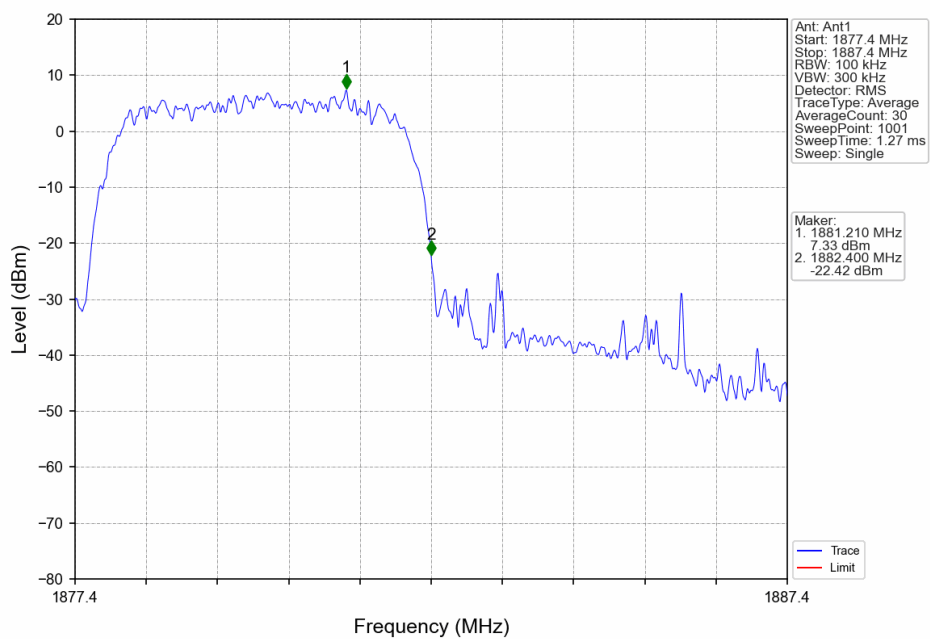
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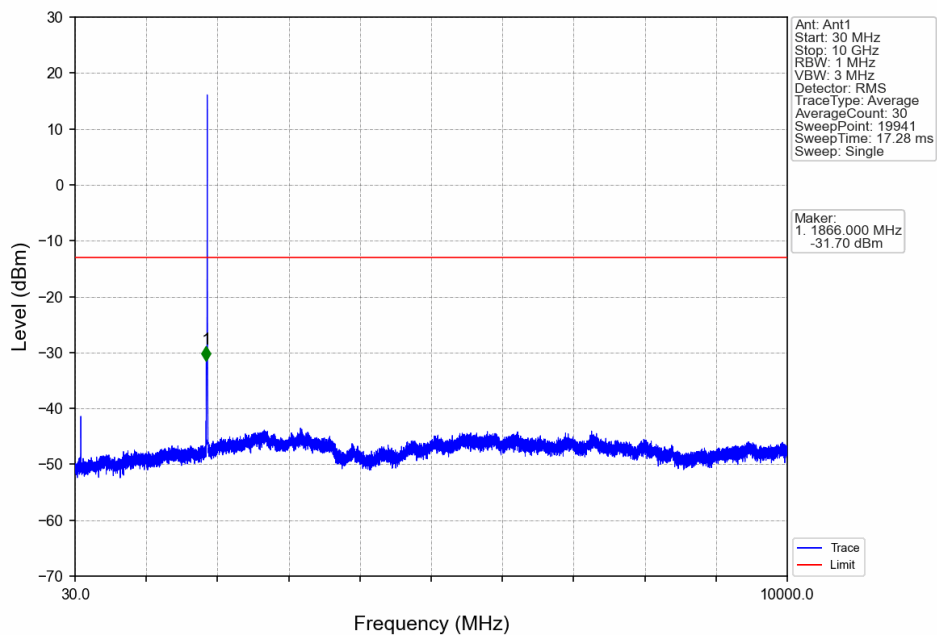
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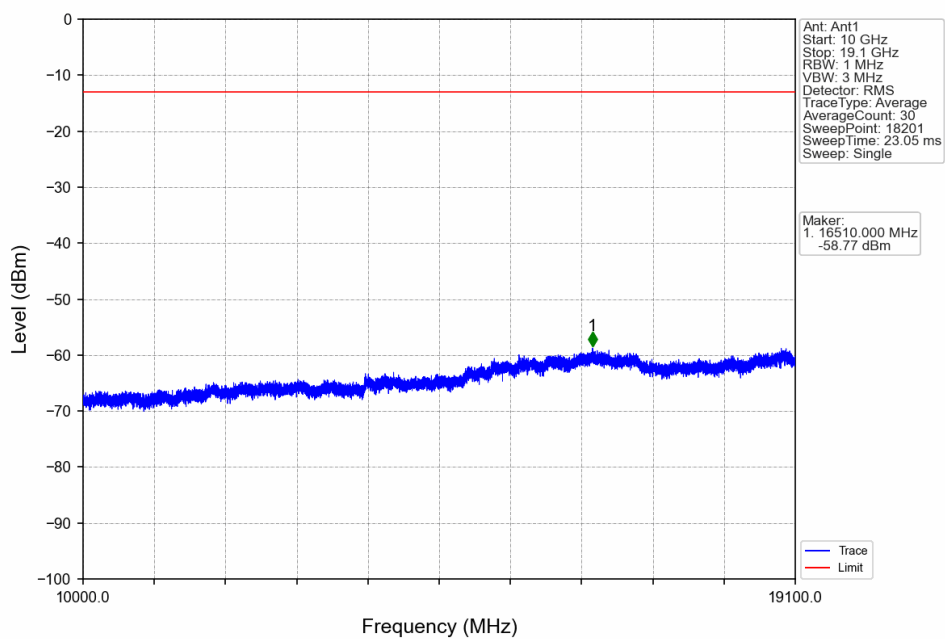
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



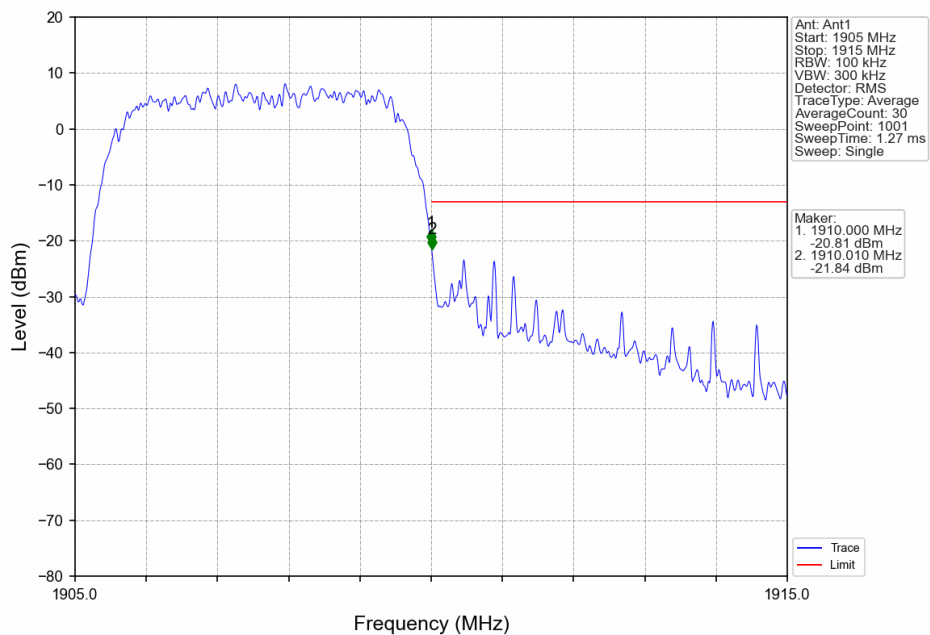
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band2 HSUPA HCH 1907.6MHz Subtest 1 NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV

