

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band2_EIRP

1.1.1 Test Result

Band: 2								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	HSDPA	Subtest 1	1852.4	19.73	0.53	20.26	<=33.01	Pass
		Subtest 2	1852.4	19.72	0.53	20.25	<=33.01	Pass
		Subtest 3	1852.4	19.74	0.53	20.27	<=33.01	Pass
		Subtest 4	1852.4	19.72	0.53	20.25	<=33.01	Pass
		Subtest 1	1880	19.52	0.53	20.05	<=33.01	Pass
		Subtest 2	1880	19.49	0.53	20.02	<=33.01	Pass
		Subtest 3	1880	19.49	0.53	20.02	<=33.01	Pass
		Subtest 4	1880	19.50	0.53	20.03	<=33.01	Pass
		Subtest 1	1907.6	19.67	0.53	20.20	<=33.01	Pass
		Subtest 2	1907.6	19.69	0.53	20.22	<=33.01	Pass
		Subtest 3	1907.6	19.65	0.53	20.18	<=33.01	Pass
		Subtest 4	1907.6	19.68	0.53	20.21	<=33.01	Pass
	HSUPA	Subtest 1	1852.4	17.70	0.53	18.23	<=33.01	Pass
		Subtest 2	1852.4	17.46	0.53	17.99	<=33.01	Pass
		Subtest 3	1852.4	17.47	0.53	18.00	<=33.01	Pass
		Subtest 4	1852.4	17.16	0.53	17.69	<=33.01	Pass
		Subtest 5	1852.4	17.15	0.53	17.68	<=33.01	Pass
		Subtest 1	1880	17.53	0.53	18.06	<=33.01	Pass
		Subtest 2	1880	17.00	0.53	17.53	<=33.01	Pass
		Subtest 3	1880	17.04	0.53	17.57	<=33.01	Pass
		Subtest 4	1880	17.52	0.53	18.05	<=33.01	Pass
		Subtest 5	1880	17.28	0.53	17.81	<=33.01	Pass
		Subtest 1	1907.6	17.68	0.53	18.21	<=33.01	Pass
		Subtest 2	1907.6	17.43	0.53	17.96	<=33.01	Pass
		Subtest 3	1907.6	17.64	0.53	18.17	<=33.01	Pass
		Subtest 4	1907.6	17.17	0.53	17.70	<=33.01	Pass
		Subtest 5	1907.6	17.18	0.53	17.71	<=33.01	Pass
	RMC	12.2kbps RMC	1852.4	22.01	0.53	22.54	<=33.01	Pass
			1880	21.82	0.53	22.35	<=33.01	Pass
			1907.6	21.95	0.53	22.48	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Band2

2.1.1 Test Result

Band: 2							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
HSDPA	1852.4	20	3.27	-9.949	-0.0054	-2.5 to 2.5	Pass
			3.85	-9.584	-0.0052	-2.5 to 2.5	Pass

			4.43	-9.041	-0.0049	-2.5 to 2.5	Pass	
		-30	3.85	-9.520	-0.0051	-2.5 to 2.5	Pass	
		-20	3.85	-8.612	-0.0046	-2.5 to 2.5	Pass	
		-10	3.85	-8.633	-0.0047	-2.5 to 2.5	Pass	
		0	3.85	-8.919	-0.0048	-2.5 to 2.5	Pass	
		10	3.85	-9.434	-0.0051	-2.5 to 2.5	Pass	
		30	3.85	-9.577	-0.0052	-2.5 to 2.5	Pass	
		40	3.85	-10.099	-0.0055	-2.5 to 2.5	Pass	
		50	3.85	-7.753	-0.0041	-2.5 to 2.5	Pass	
		1880	20	3.27	-8.426	-0.0045	-2.5 to 2.5	Pass
				3.85	-7.932	-0.0042	-2.5 to 2.5	Pass
				4.43	-6.652	-0.0035	-2.5 to 2.5	Pass
			-30	3.85	-8.547	-0.0045	-2.5 to 2.5	Pass
			-20	3.85	-8.619	-0.0046	-2.5 to 2.5	Pass
	-10		3.85	-7.267	-0.0039	-2.5 to 2.5	Pass	
	0		3.85	-8.311	-0.0044	-2.5 to 2.5	Pass	
	10		3.85	-8.411	-0.0045	-2.5 to 2.5	Pass	
	30		3.85	-6.852	-0.0036	-2.5 to 2.5	Pass	
	40		3.85	-6.988	-0.0037	-2.5 to 2.5	Pass	
	50	3.85	-8.047	-0.0042	-2.5 to 2.5	Pass		
	1907.6	20	3.27	-8.218	-0.0043	-2.5 to 2.5	Pass	
			3.85	-8.826	-0.0046	-2.5 to 2.5	Pass	
			4.43	-8.254	-0.0043	-2.5 to 2.5	Pass	
		-30	3.85	-8.962	-0.0047	-2.5 to 2.5	Pass	
		-20	3.85	-9.055	-0.0047	-2.5 to 2.5	Pass	
		-10	3.85	-9.692	-0.0051	-2.5 to 2.5	Pass	
		0	3.85	-8.075	-0.0042	-2.5 to 2.5	Pass	
		10	3.85	-8.433	-0.0044	-2.5 to 2.5	Pass	
		30	3.85	-7.703	-0.0040	-2.5 to 2.5	Pass	
		40	3.85	-8.569	-0.0045	-2.5 to 2.5	Pass	
	50	3.85	-9.949	-0.0054	-2.5 to 2.5	Pass		
	HSUPA	1852.4	20	3.27	3.805	0.0021	-2.5 to 2.5	Pass
				3.85	-0.679	-0.0004	-2.5 to 2.5	Pass
4.43				9.520	0.0051	-2.5 to 2.5	Pass	
-30			3.85	4.385	0.0024	-2.5 to 2.5	Pass	
-20			3.85	0.901	0.0005	-2.5 to 2.5	Pass	
-10			3.85	5.686	0.0031	-2.5 to 2.5	Pass	
0			3.85	1.709	0.0009	-2.5 to 2.5	Pass	
10			3.85	5.200	0.0028	-2.5 to 2.5	Pass	
30			3.85	3.977	0.0021	-2.5 to 2.5	Pass	
40			3.85	4.642	0.0025	-2.5 to 2.5	Pass	
50		3.85	0.637	0.0003	-2.5 to 2.5	Pass		
1880		20	3.27	3.140	0.0017	-2.5 to 2.5	Pass	
			3.85	2.618	0.0014	-2.5 to 2.5	Pass	
			4.43	3.498	0.0019	-2.5 to 2.5	Pass	
		-30	3.85	9.227	0.0049	-2.5 to 2.5	Pass	
		-20	3.85	6.852	0.0036	-2.5 to 2.5	Pass	
		-10	3.85	-1.760	-0.0009	-2.5 to 2.5	Pass	
		0	3.85	3.927	0.0021	-2.5 to 2.5	Pass	
		10	3.85	2.260	0.0012	-2.5 to 2.5	Pass	
		30	3.85	4.134	0.0022	-2.5 to 2.5	Pass	
		40	3.85	8.533	0.0045	-2.5 to 2.5	Pass	
50		3.85	5.844	0.0031	-2.5 to 2.5	Pass		
1907.6		20	3.27	4.613	0.0024	-2.5 to 2.5	Pass	
			3.85	6.602	0.0035	-2.5 to 2.5	Pass	
			4.43	1.795	0.0009	-2.5 to 2.5	Pass	
		-30	3.85	4.864	0.0025	-2.5 to 2.5	Pass	

		-20	3.85	5.865	0.0031	-2.5 to 2.5	Pass	
		-10	3.85	7.503	0.0039	-2.5 to 2.5	Pass	
		0	3.85	1.867	0.0010	-2.5 to 2.5	Pass	
		10	3.85	0.465	0.0002	-2.5 to 2.5	Pass	
		30	3.85	2.782	0.0015	-2.5 to 2.5	Pass	
		40	3.85	9.255	0.0049	-2.5 to 2.5	Pass	
		50	3.85	1.266	0.0007	-2.5 to 2.5	Pass	
RMC	1852.4	20	3.27	-1.967	-0.0011	-2.5 to 2.5	Pass	
			3.85	-1.073	-0.0006	-2.5 to 2.5	Pass	
			4.43	-0.715	-0.0004	-2.5 to 2.5	Pass	
		-30	3.85	-1.431	-0.0008	-2.5 to 2.5	Pass	
		-20	3.85	-1.974	-0.0011	-2.5 to 2.5	Pass	
		-10	3.85	-0.622	-0.0003	-2.5 to 2.5	Pass	
		0	3.85	-0.858	-0.0005	-2.5 to 2.5	Pass	
		10	3.85	-0.844	-0.0005	-2.5 to 2.5	Pass	
		30	3.85	-0.544	-0.0003	-2.5 to 2.5	Pass	
		40	3.85	-1.266	-0.0007	-2.5 to 2.5	Pass	
		50	3.85	-0.565	-0.0003	-2.5 to 2.5	Pass	
		1880	20	3.27	0.021	0.0000	-2.5 to 2.5	Pass
				3.85	0.343	0.0002	-2.5 to 2.5	Pass
				4.43	0.157	0.0001	-2.5 to 2.5	Pass
	-30		3.85	0.272	0.0001	-2.5 to 2.5	Pass	
	-20		3.85	0.780	0.0004	-2.5 to 2.5	Pass	
	-10		3.85	0.293	0.0002	-2.5 to 2.5	Pass	
	0		3.85	0.472	0.0003	-2.5 to 2.5	Pass	
	10		3.85	-0.200	-0.0001	-2.5 to 2.5	Pass	
	30		3.85	0.165	0.0001	-2.5 to 2.5	Pass	
	40		3.85	0.837	0.0004	-2.5 to 2.5	Pass	
	50		3.85	0.050	0.0000	-2.5 to 2.5	Pass	
	1907.6		20	3.27	-0.429	-0.0002	-2.5 to 2.5	Pass
				3.85	0.272	0.0001	-2.5 to 2.5	Pass
				4.43	0.887	0.0005	-2.5 to 2.5	Pass
		-30	3.85	1.502	0.0008	-2.5 to 2.5	Pass	
		-20	3.85	-0.615	-0.0003	-2.5 to 2.5	Pass	
		-10	3.85	-2.182	-0.0011	-2.5 to 2.5	Pass	
		0	3.85	-0.901	-0.0005	-2.5 to 2.5	Pass	
		10	3.85	-0.865	-0.0005	-2.5 to 2.5	Pass	
		30	3.85	0.944	0.0005	-2.5 to 2.5	Pass	
		40	3.85	-0.136	-0.0001	-2.5 to 2.5	Pass	
		50	3.85	-1.788	-0.0009	-2.5 to 2.5	Pass	

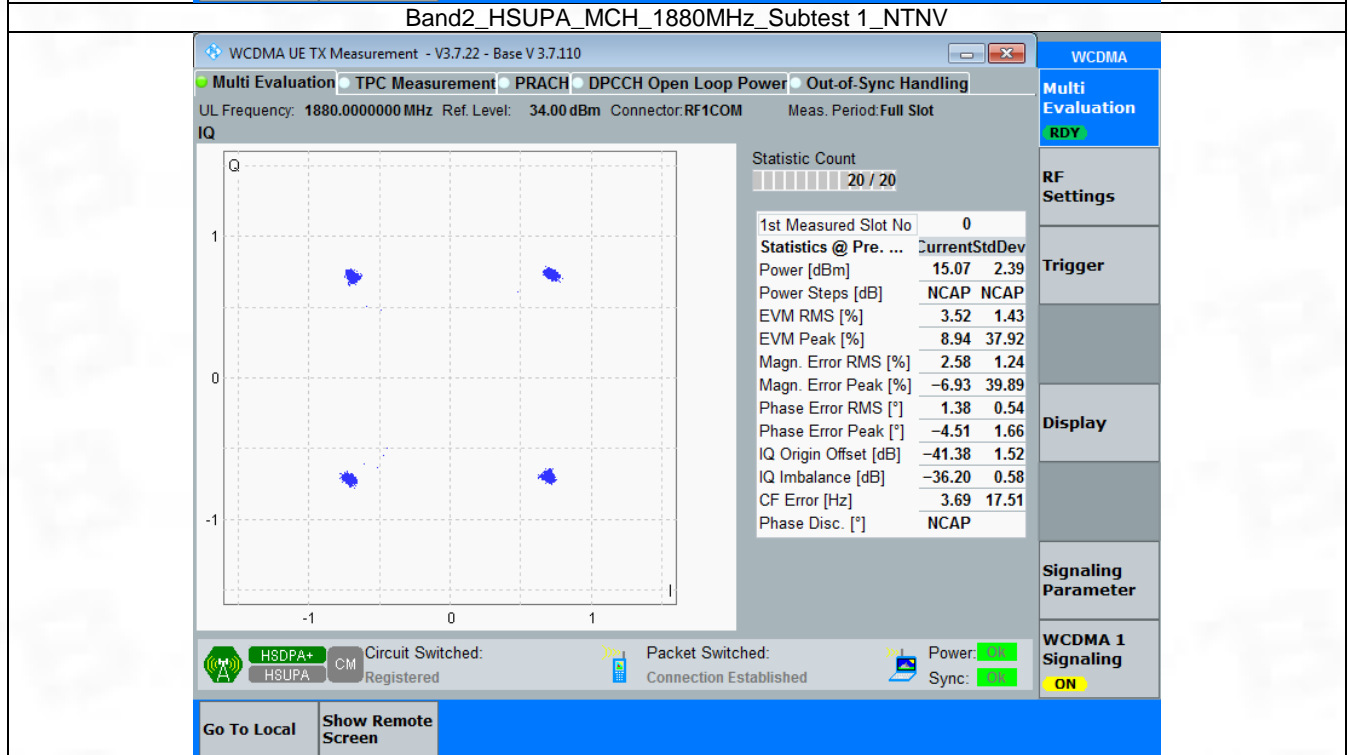
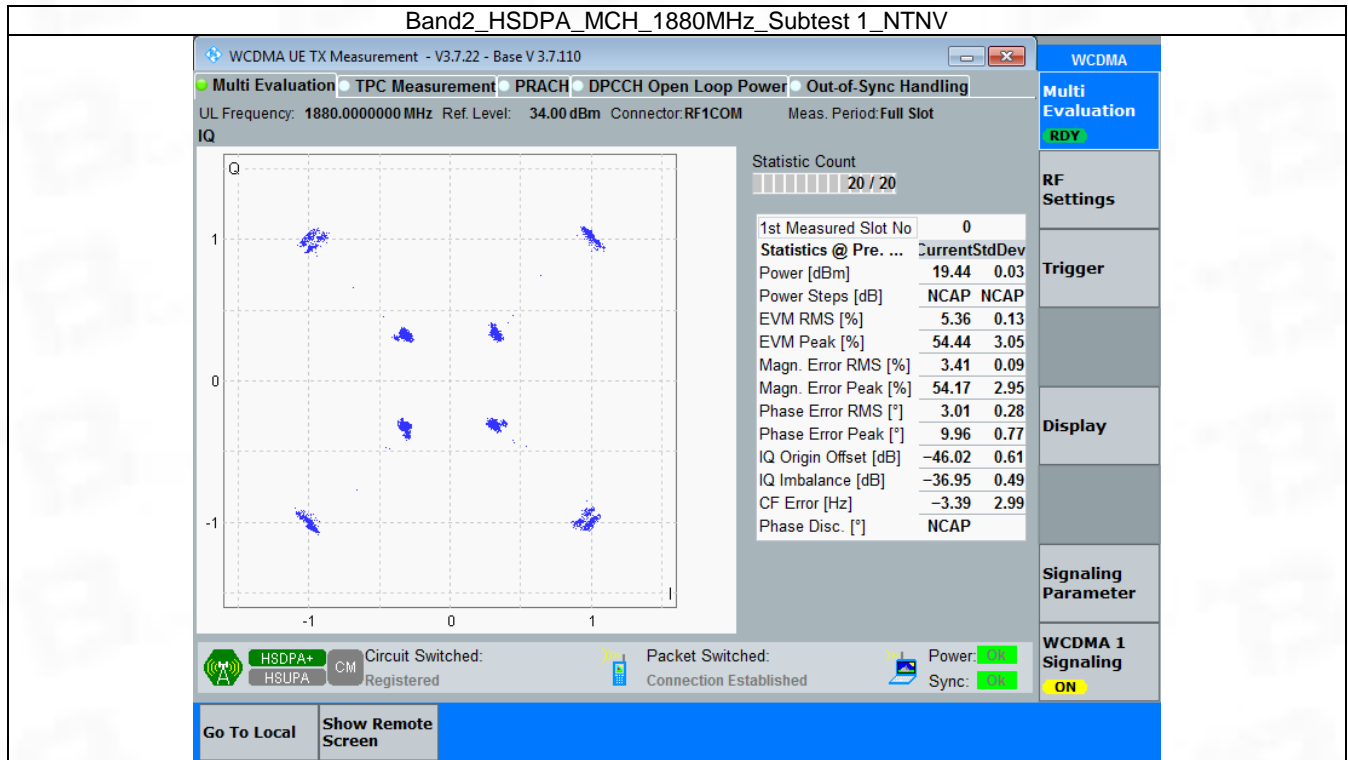
3. Modulation Characteristics

3.1 Band2

3.1.1 Test Result

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

3.1.2 Test Graph



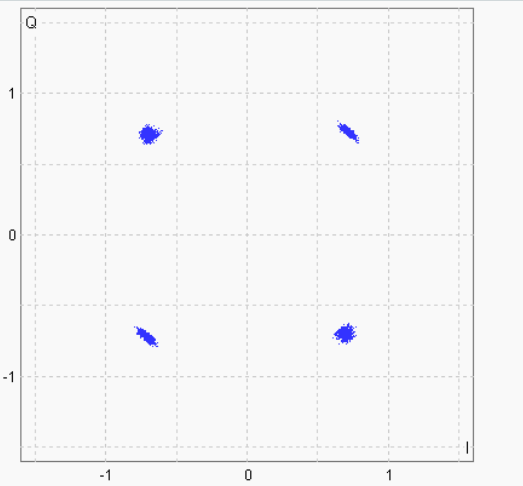
Band2_RMC_MCH_1880MHz_12.2kbps_RMC_NTNV

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110

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

UL Frequency: 1880.000000 MHz Ref. Level: 32.50 dBm Connector: RF1COM Meas. Period: Full Slot

IQ



Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	21.10 0.02
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	4.16 0.05
EVM Peak [%]	11.51 0.47
Magn. Error RMS [%]	2.54 0.08
Magn. Error Peak [%]	-7.38 0.22
Phase Error RMS [°]	1.89 0.01
Phase Error Peak [°]	6.37 0.27
IQ Origin Offset [dB]	-46.19 0.41
IQ Imbalance [dB]	-36.68 0.20
CF Error [Hz]	1.53 2.74
Phase Disc. [°]	NCAP

HSDPA
 HSPA
 CM
 Circuit Switched: Registered

Packet Switched: Connection Established

Power: --- Sync: ---

WCDMA
 Multi Evaluation
 RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 WCDMA 1 Signaling ON

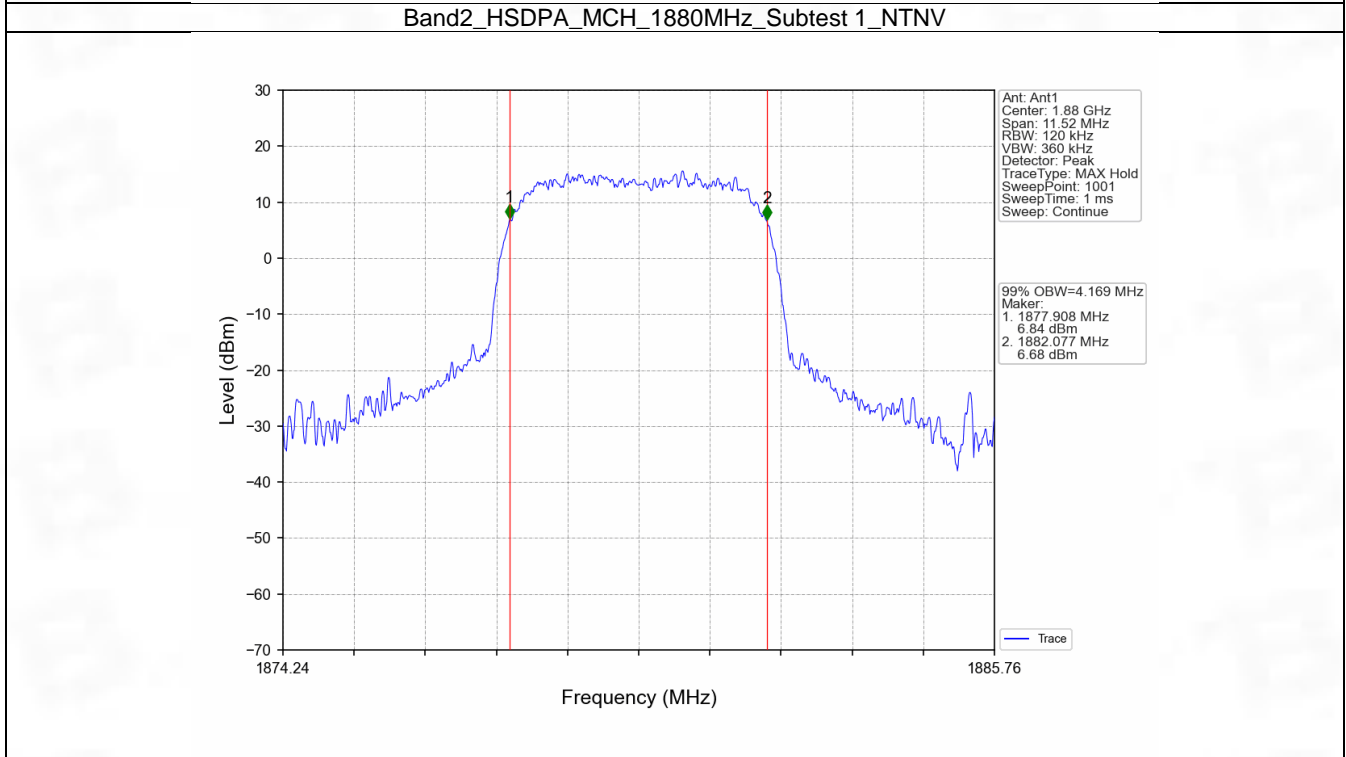
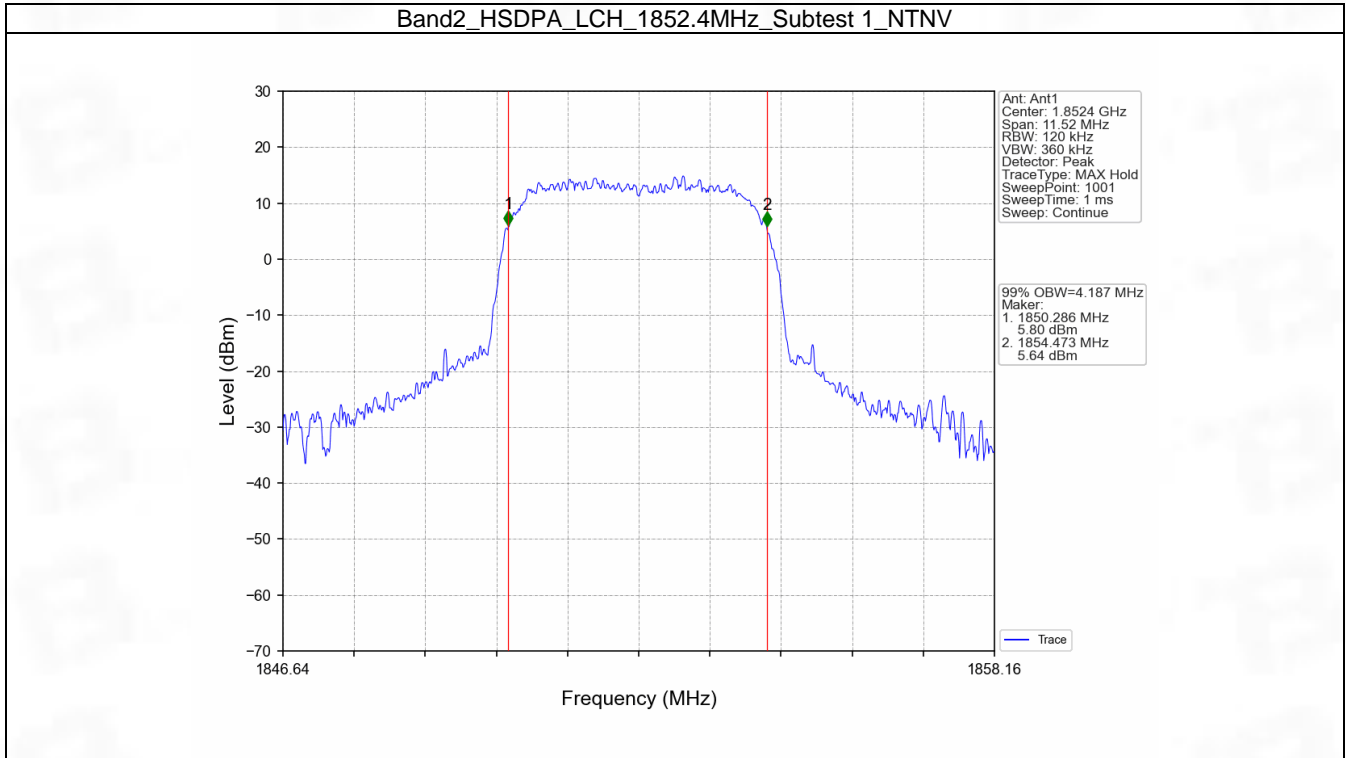
4. 99% & 26dB Bandwidth

4.1 Band2_OBW

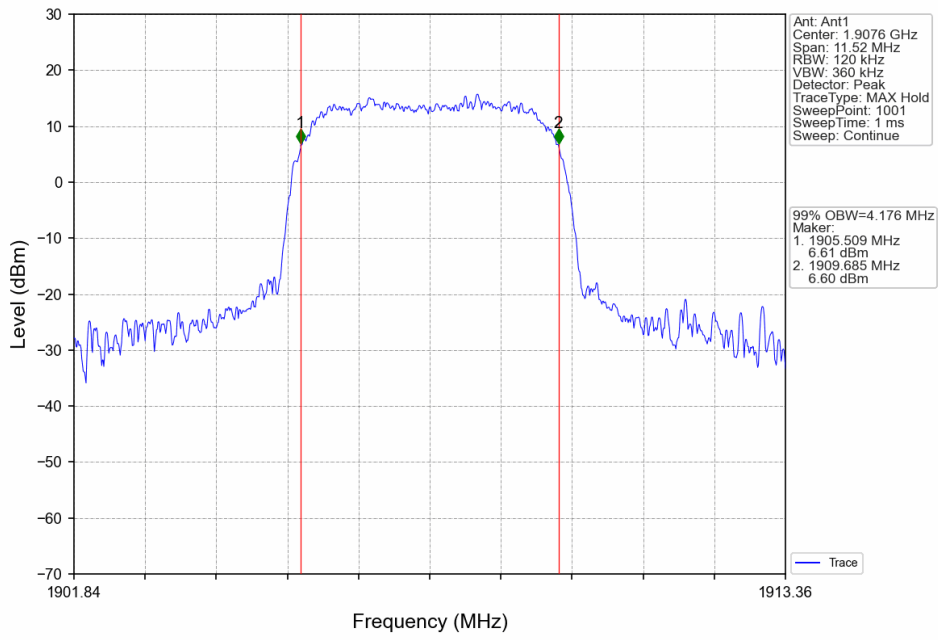
4.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	HSDPA	Subtest 1	1852.4	4.187	/	Pass
			1880	4.169	/	Pass
			1907.6	4.176	/	Pass
	HSUPA	Subtest 1	1852.4	4.170	/	Pass
			1880	4.167	/	Pass
			1907.6	4.175	/	Pass
	RMC	12.2kbps RMC	1852.4	4.175	/	Pass
			1880	4.145	/	Pass
			1907.6	4.176	/	Pass

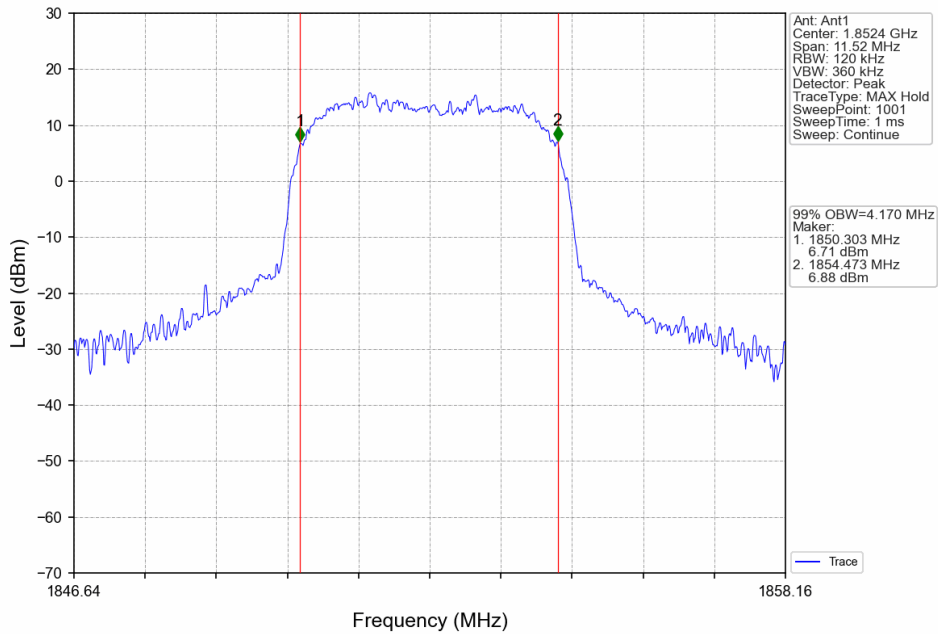
4.1.2 Test Graph



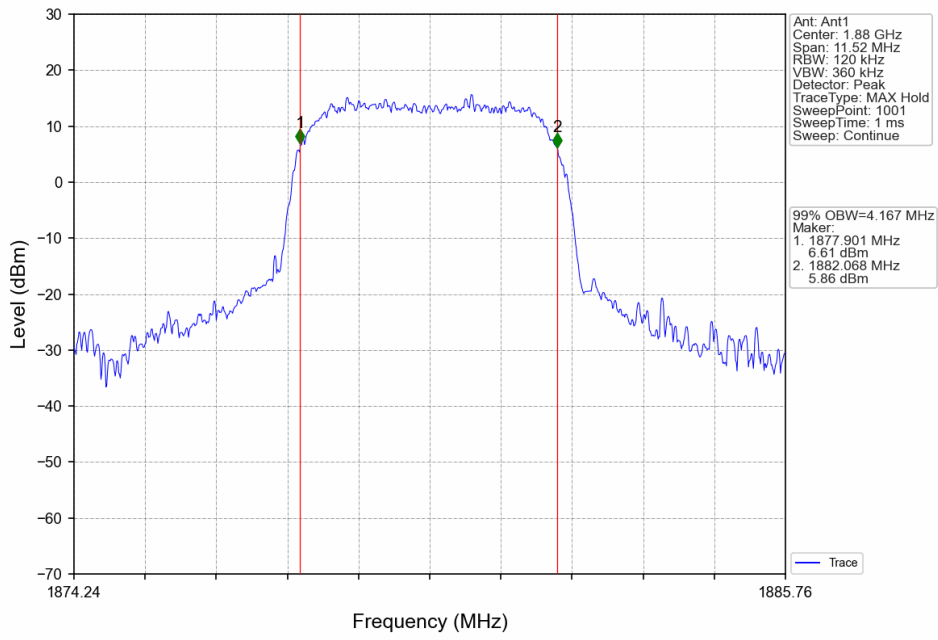
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



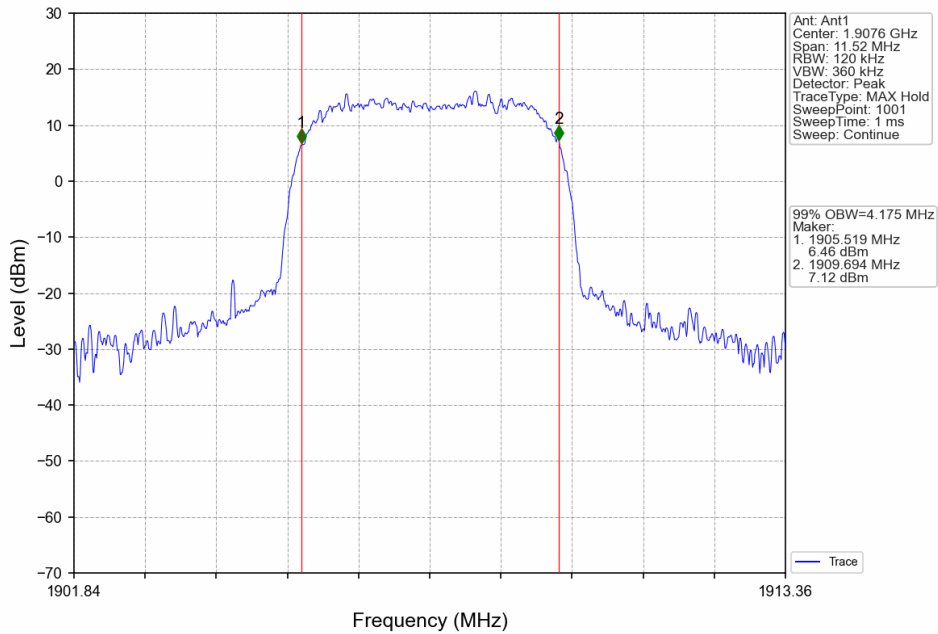
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



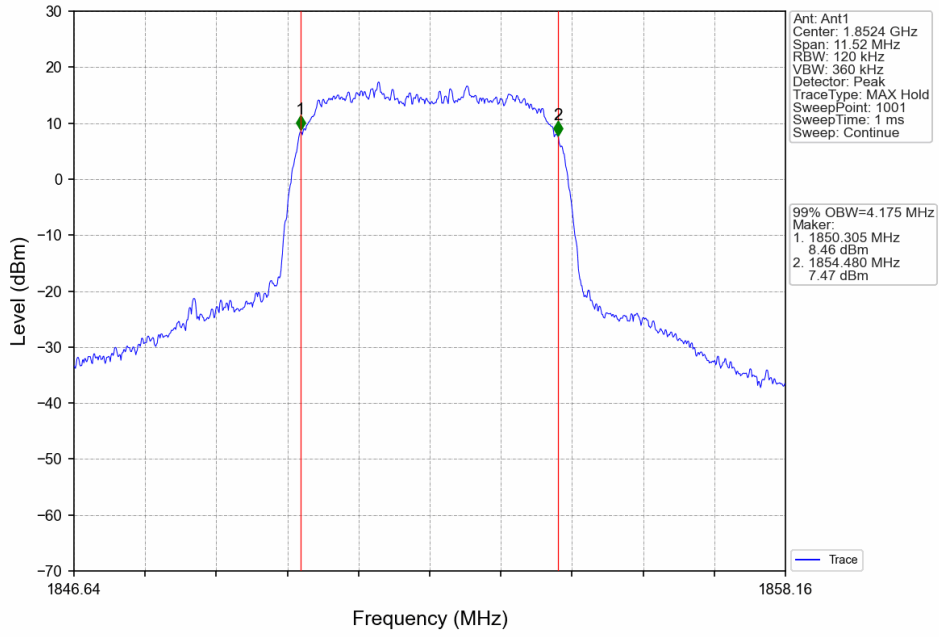
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



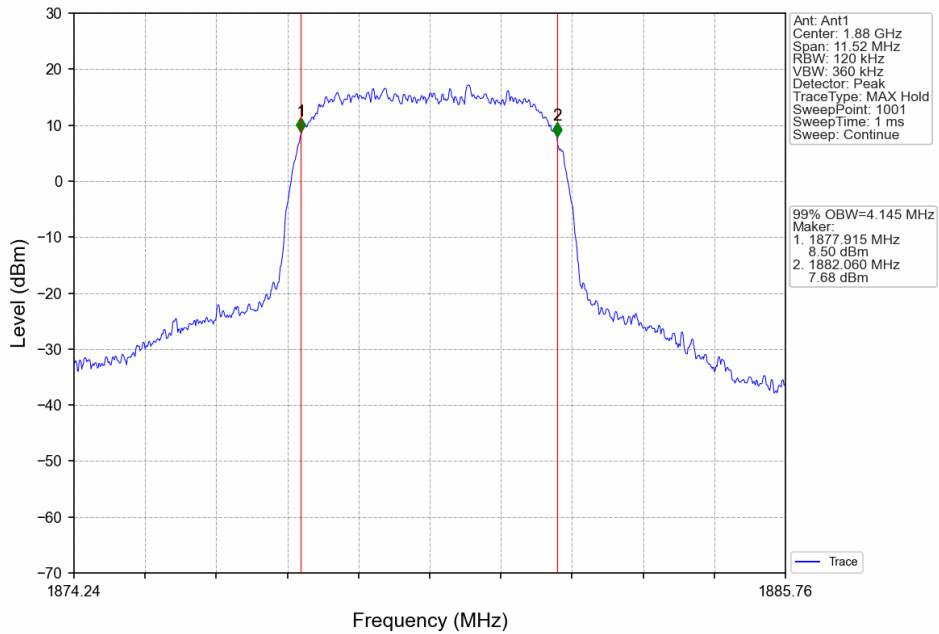
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



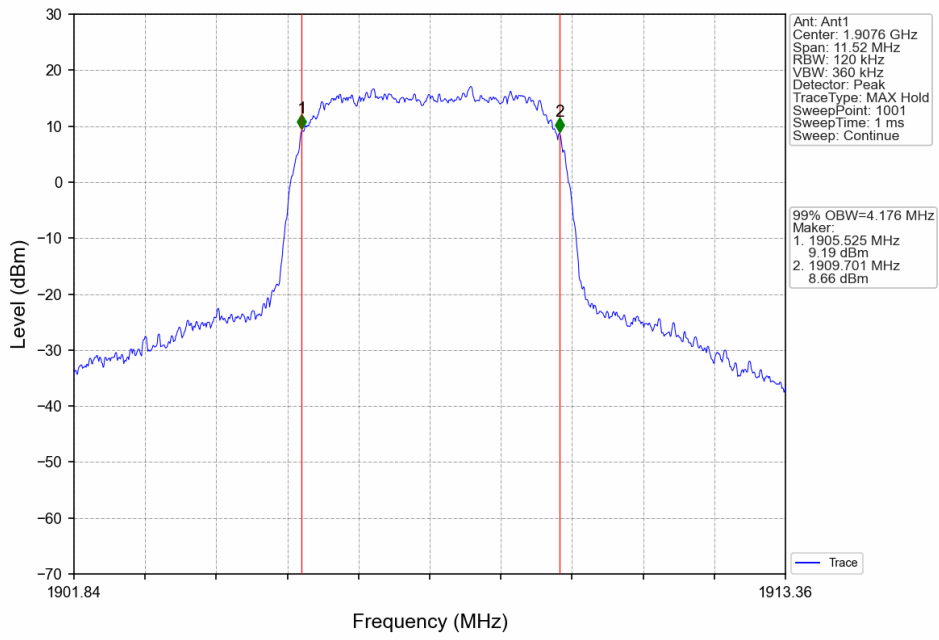
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

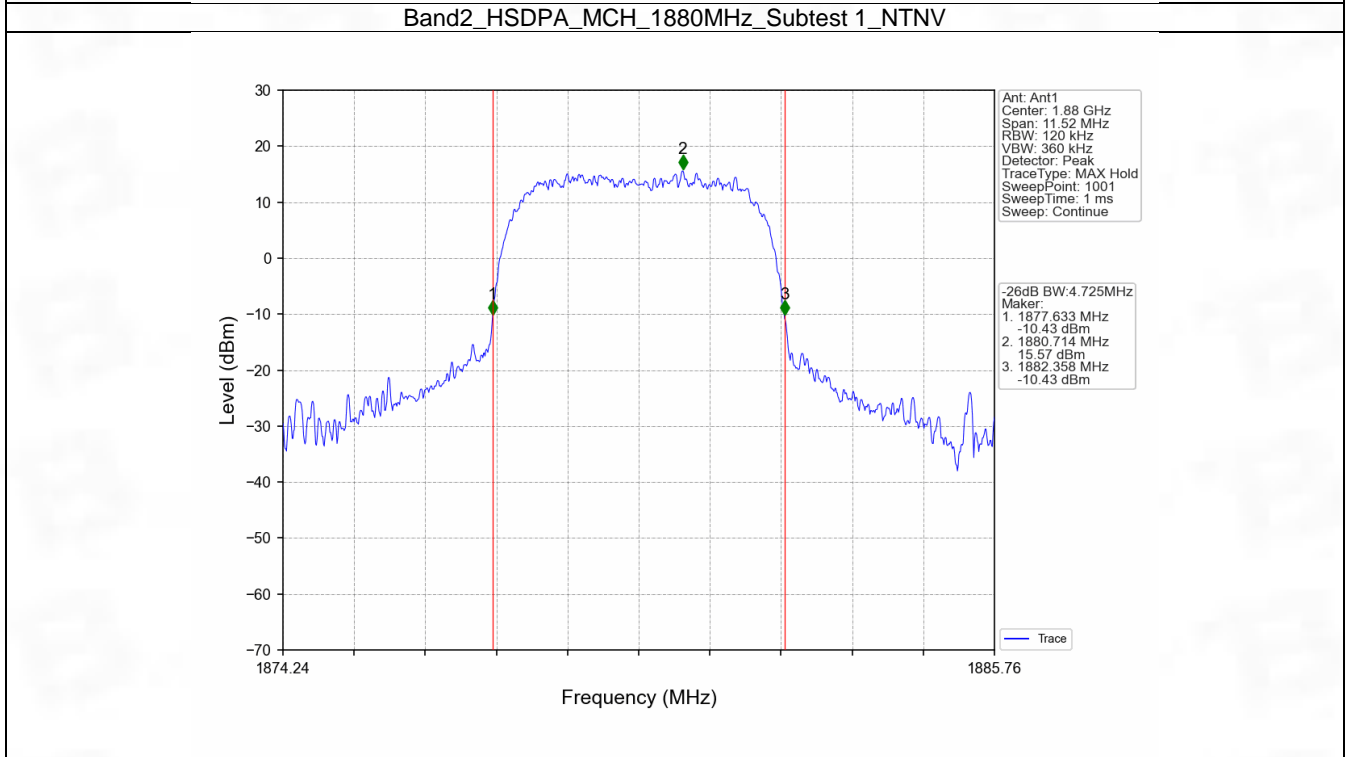
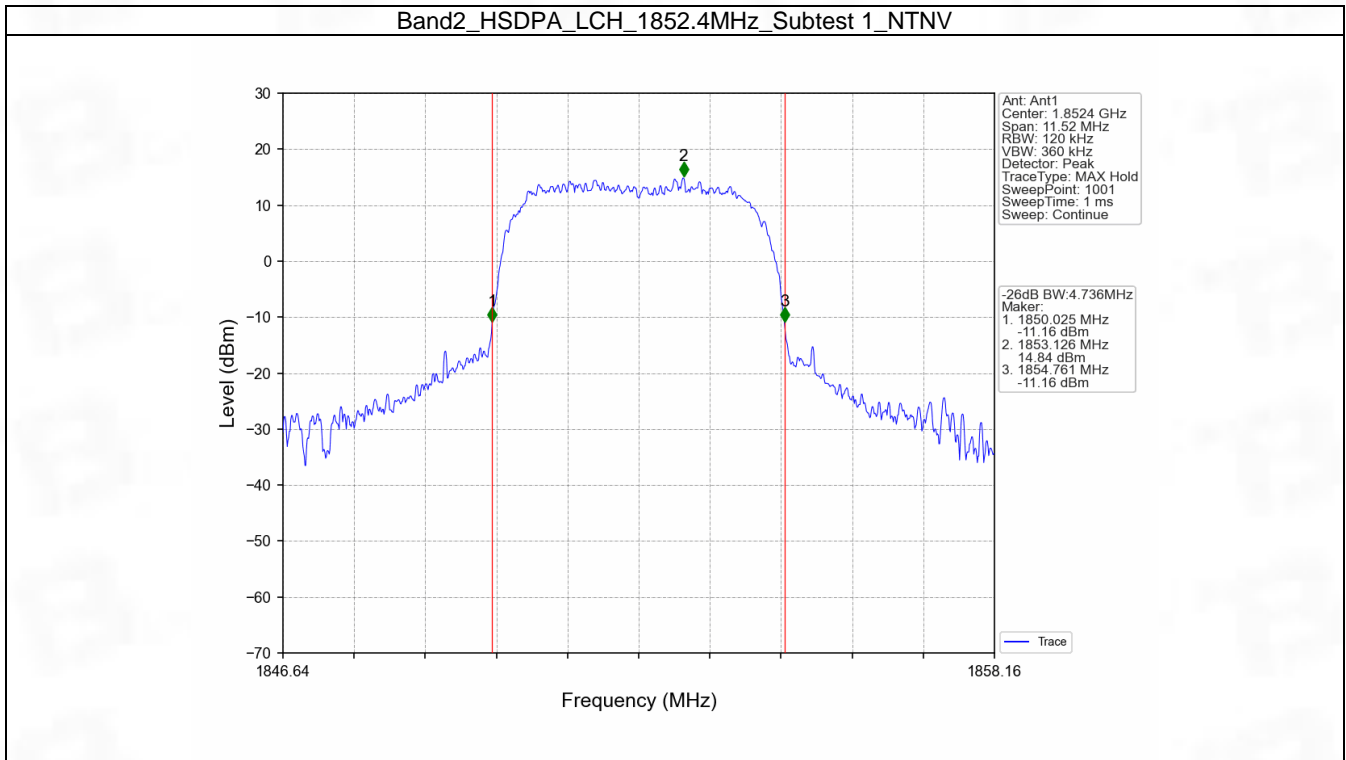


4.2 Band2_XDB

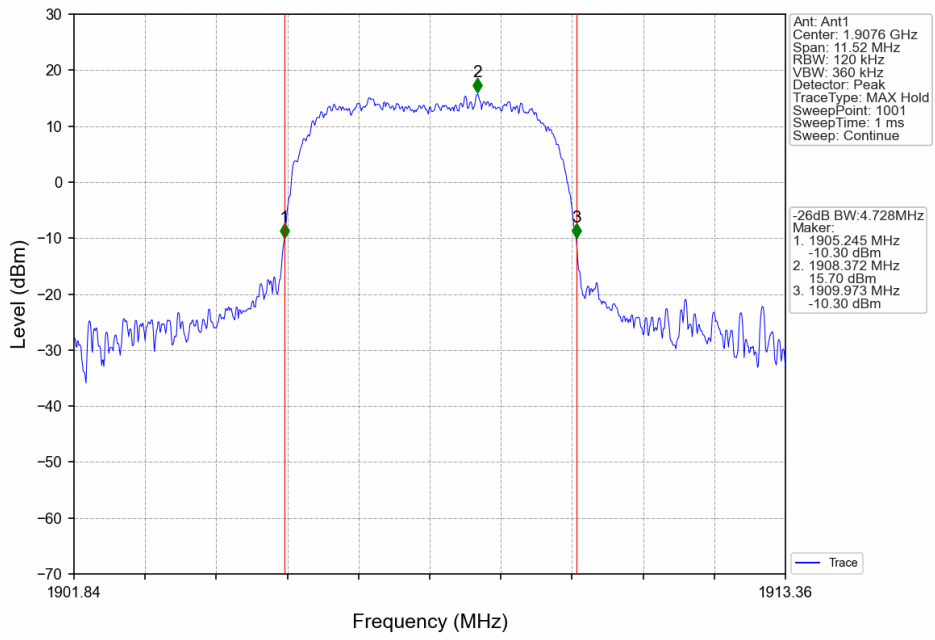
4.2.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	HSDPA	Subtest 1	1852.4	4.736	/	Pass
			1880	4.725	/	Pass
			1907.6	4.728	/	Pass
	HSUPA	Subtest 1	1852.4	4.708	/	Pass
			1880	4.712	/	Pass
			1907.6	4.717	/	Pass
	RMC	12.2kbps RMC	1852.4	4.692	/	Pass
			1880	4.699	/	Pass
			1907.6	4.712	/	Pass

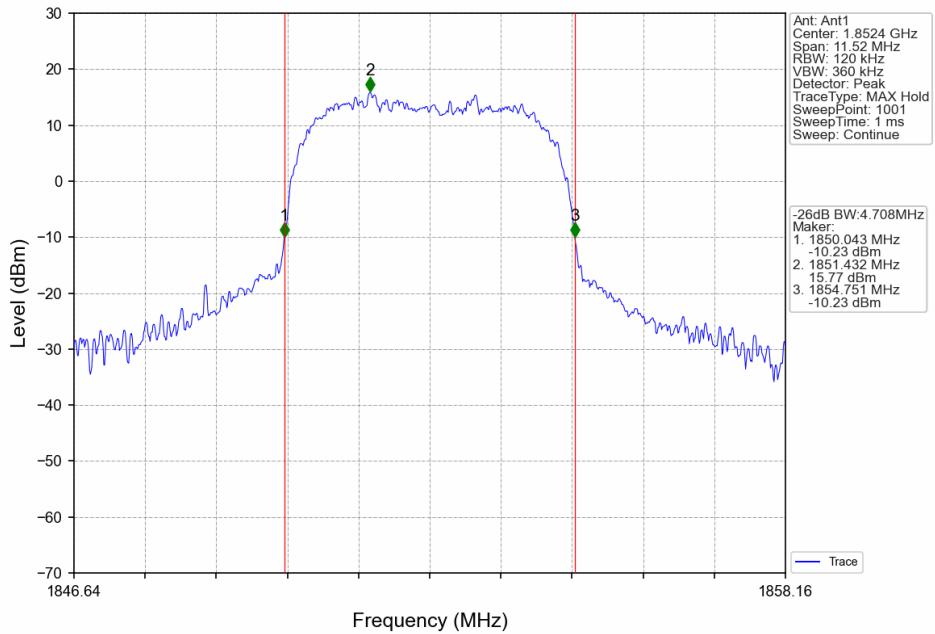
4.2.2 Test Graph



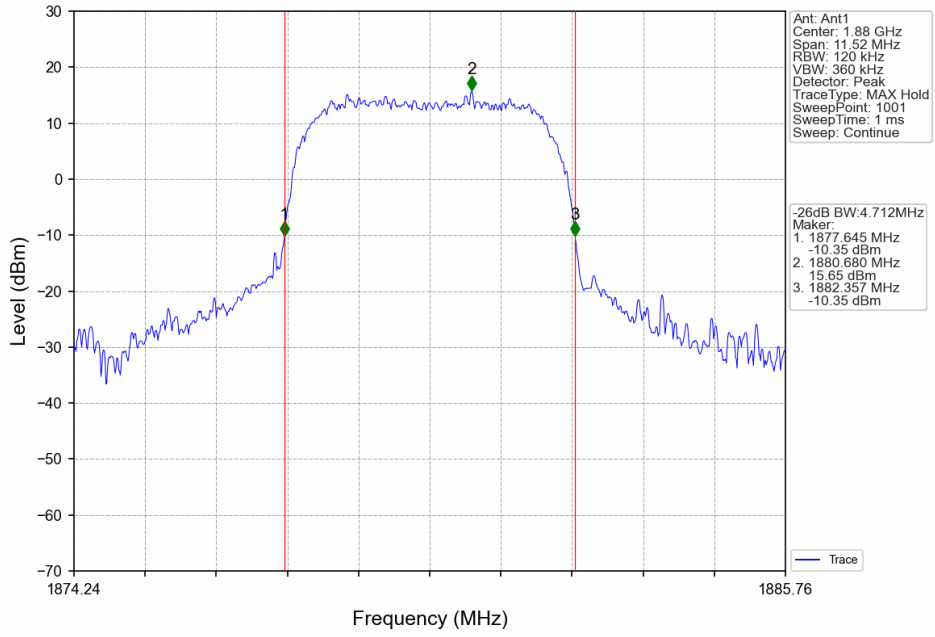
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



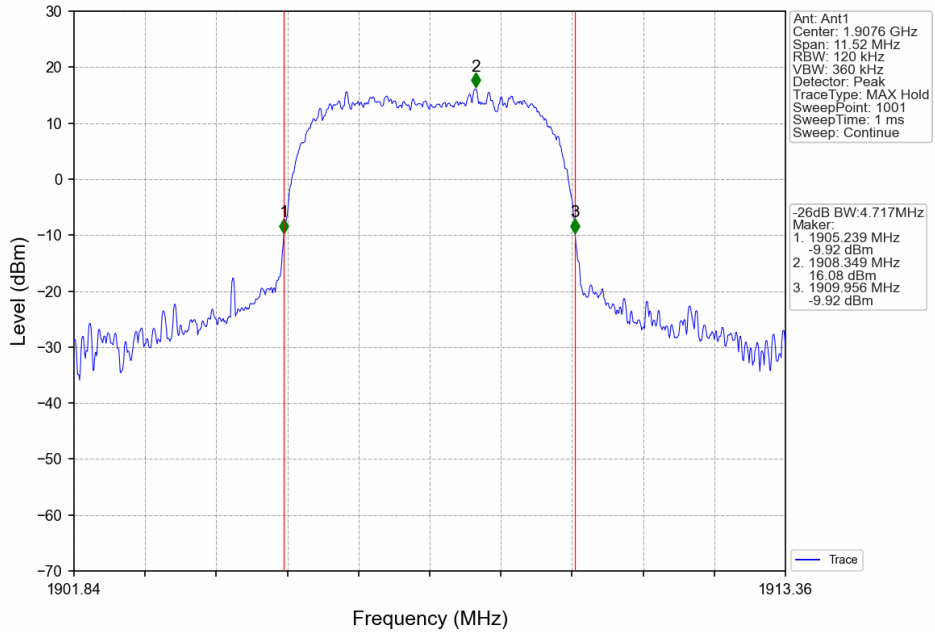
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



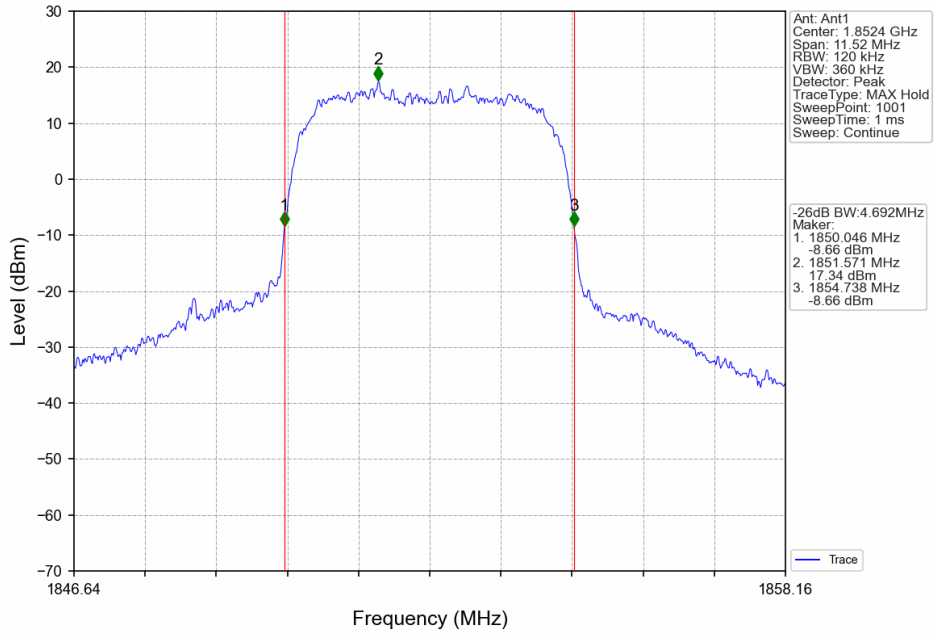
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



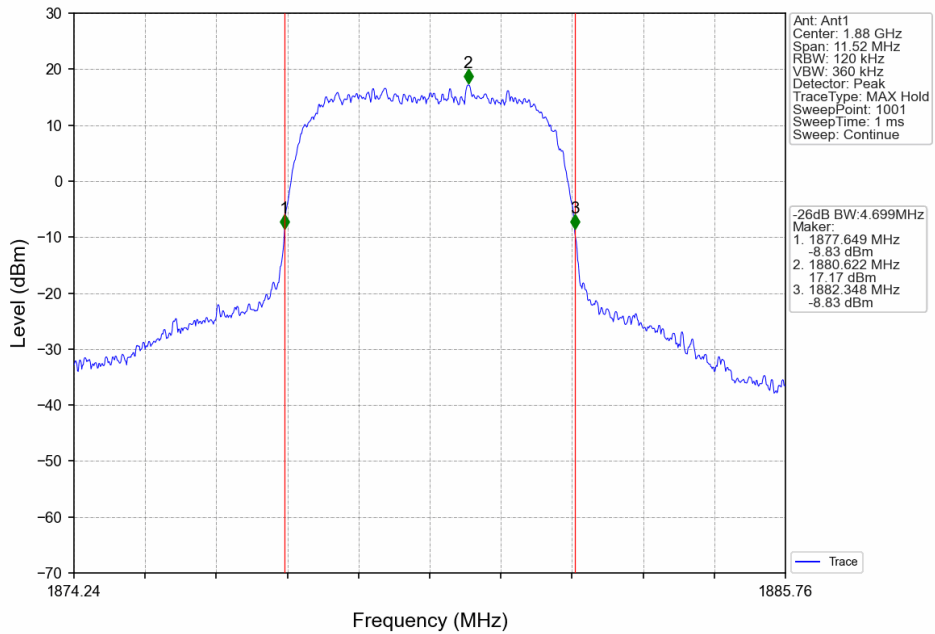
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



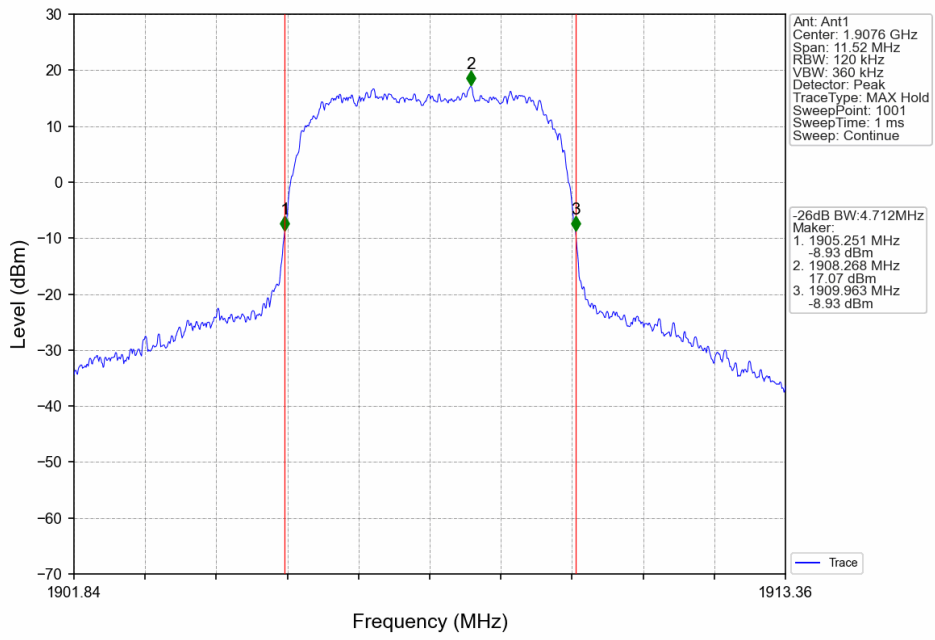
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



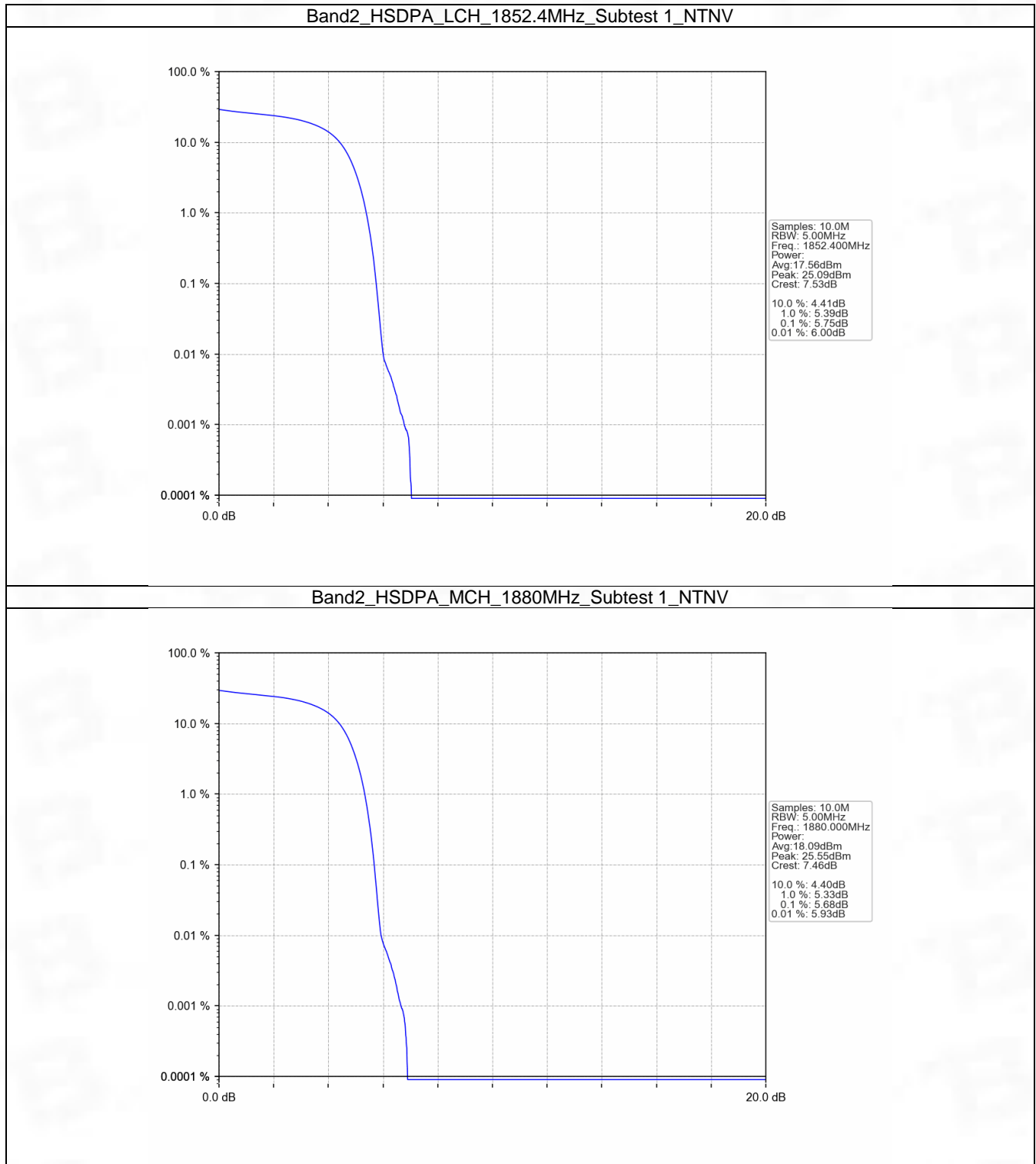
5. Peak-Average Ratio

5.1 Band2

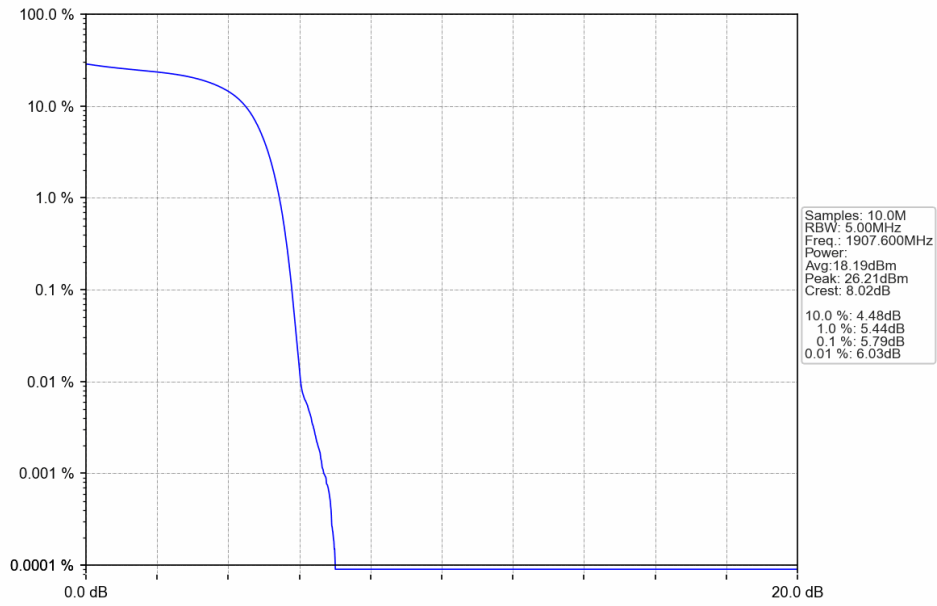
5.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	HSDPA	Subtest 1	1852.4	5.75	<=13	Pass
			1880	5.68	<=13	Pass
			1907.6	5.79	<=13	Pass
	HSUPA	Subtest 1	1852.4	<=13	<=13	Pass
			1880	<=13	<=13	Pass
			1907.6	<=13	<=13	Pass
	RMC	12.2kbps RMC	1852.4	3.18	<=13	Pass
			1880	3.16	<=13	Pass
			1907.6	3.13	<=13	Pass

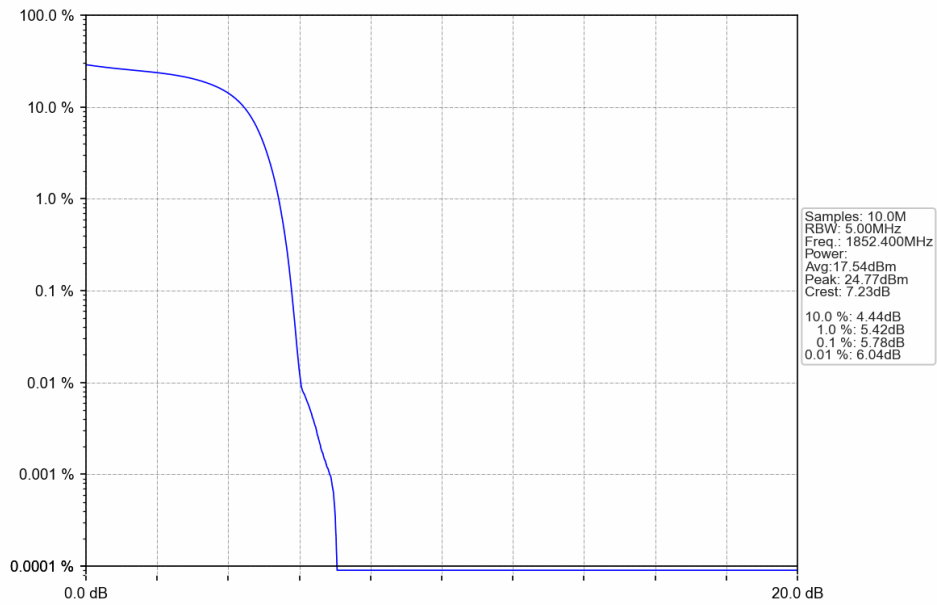
5.1.2 Test Graph



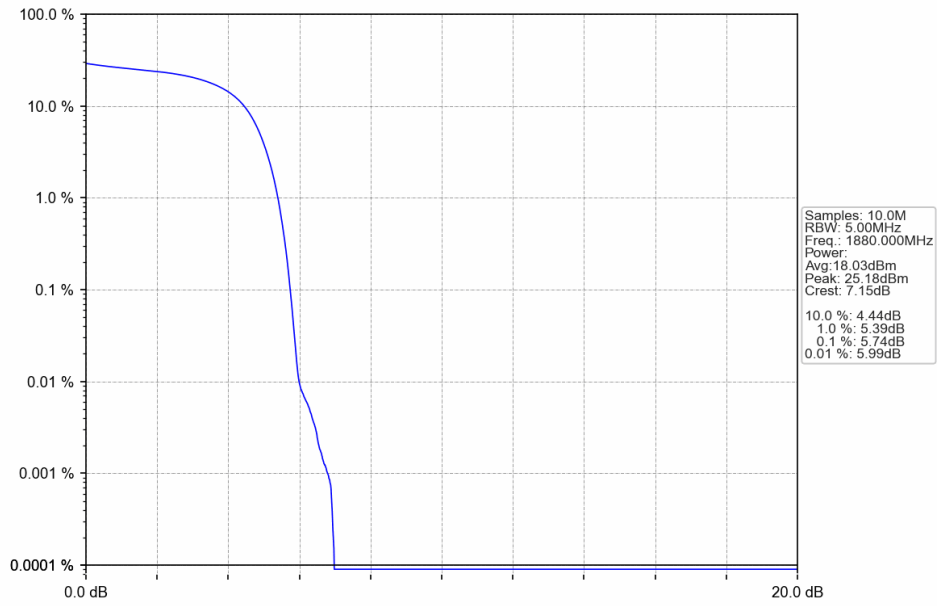
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



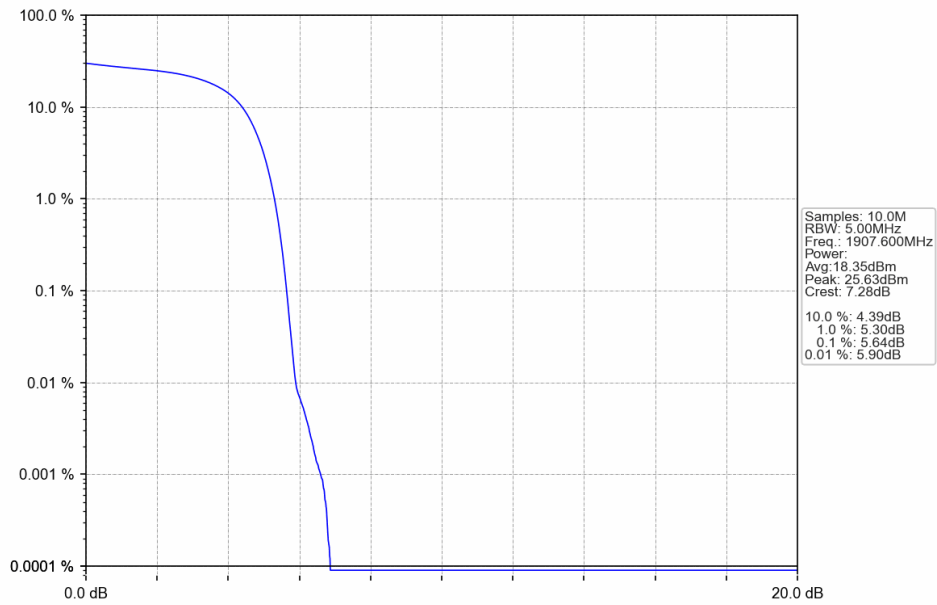
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



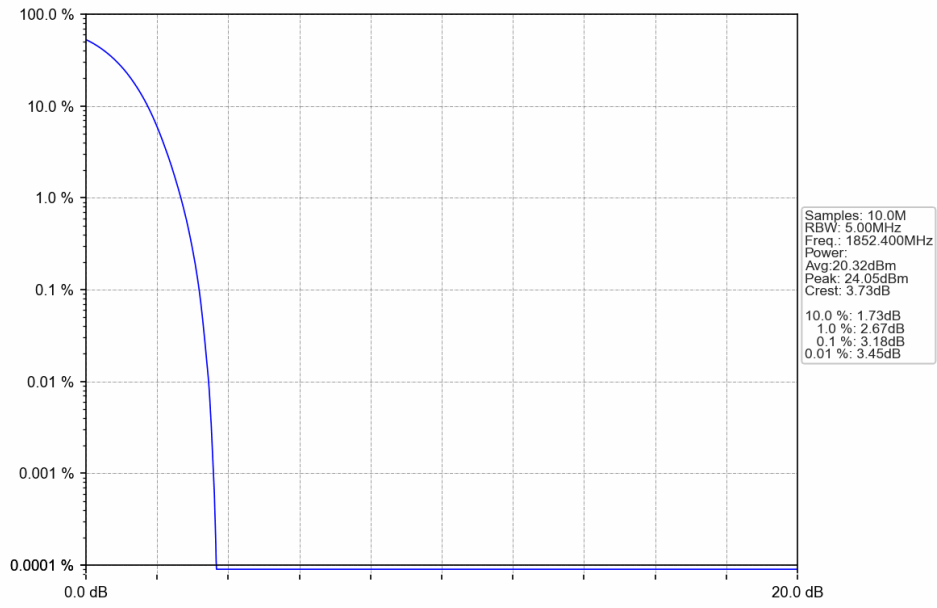
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



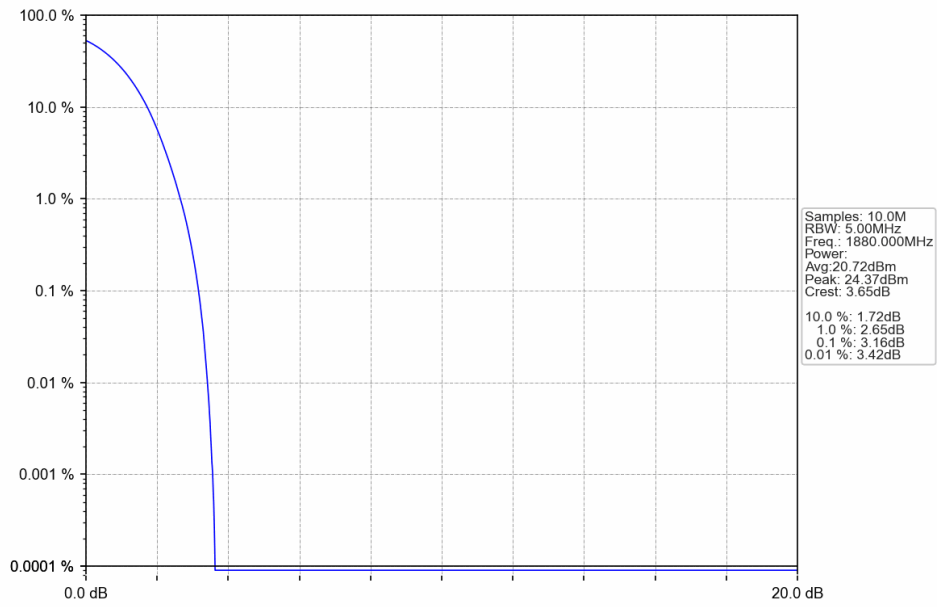
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



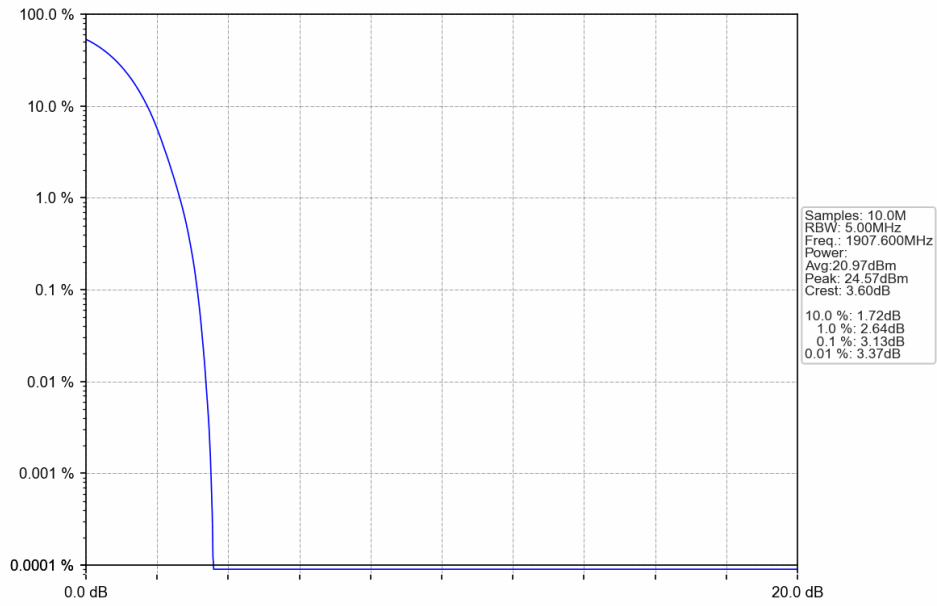
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



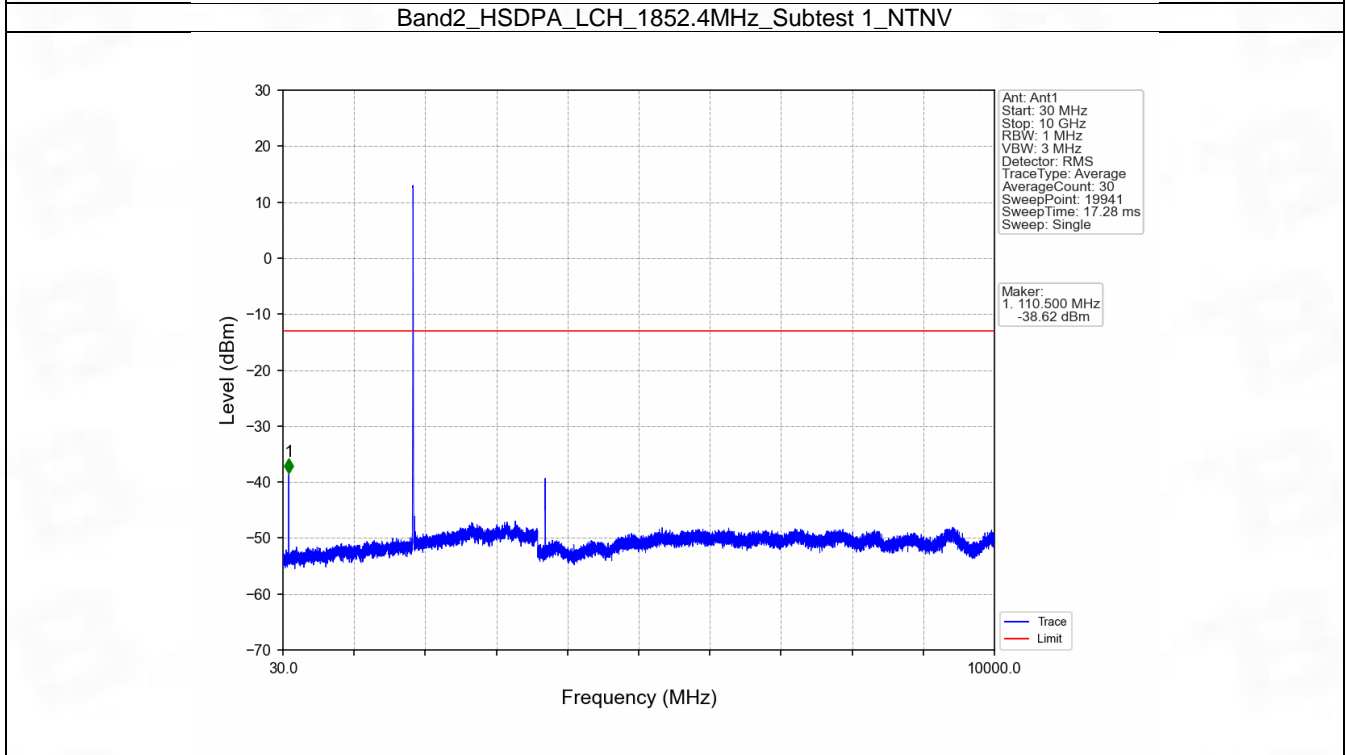
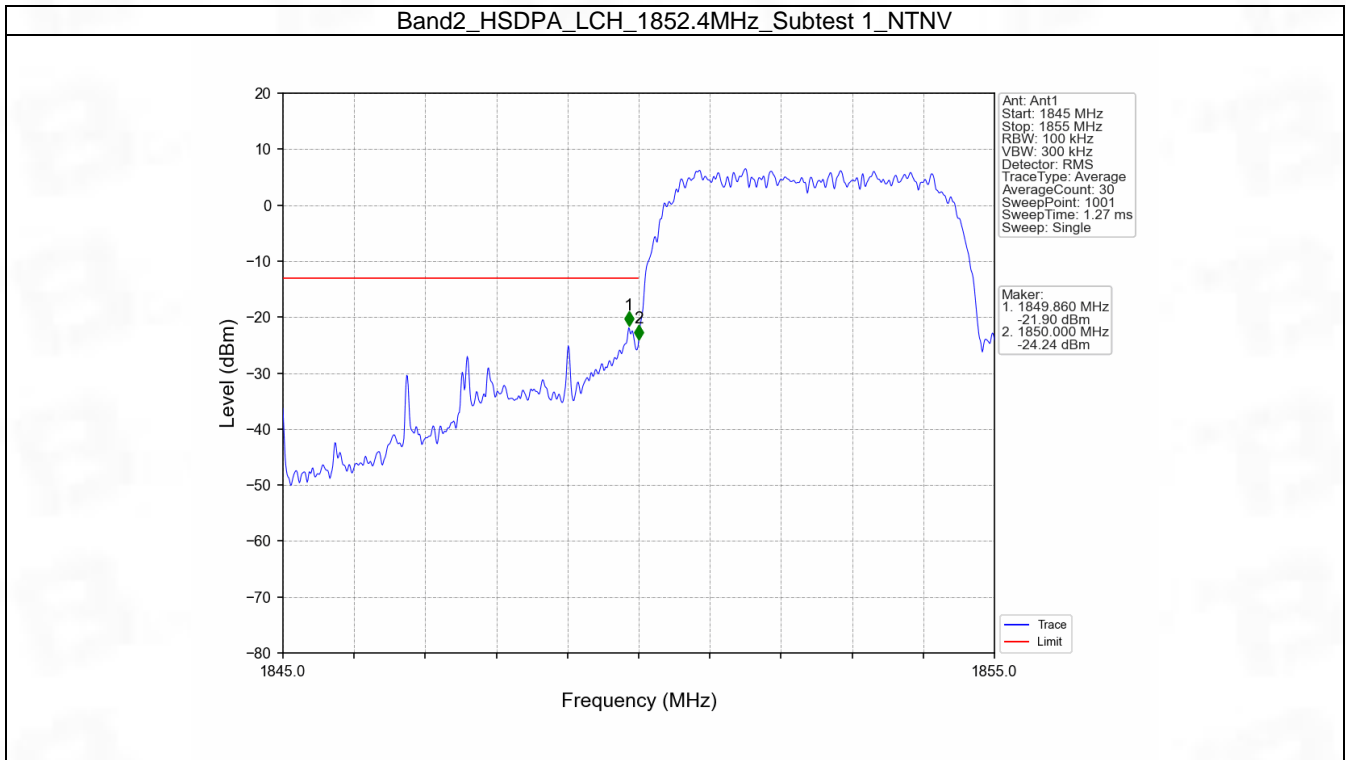
6. Spurious Emission

6.1 Band2

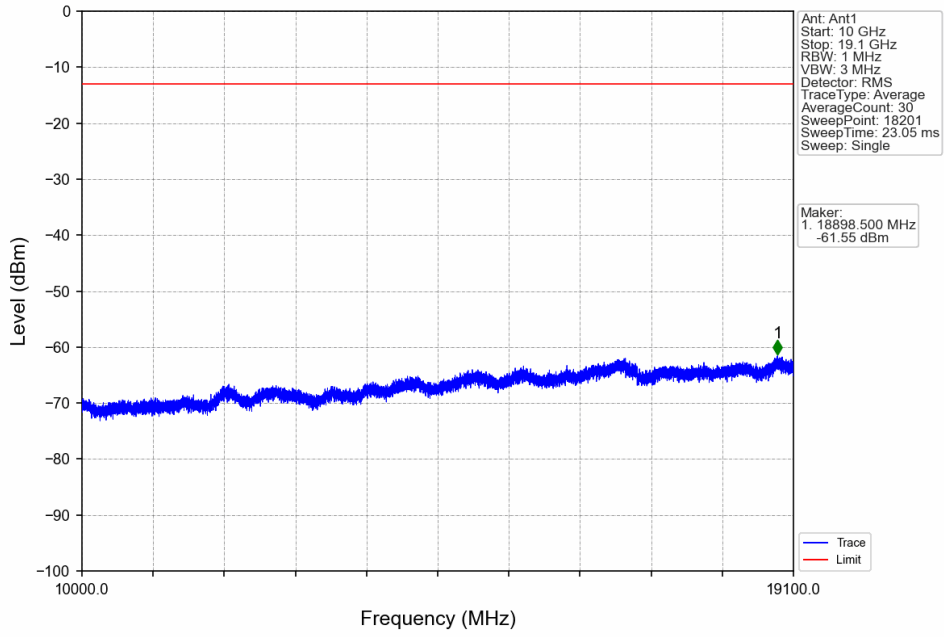
6.1.1 Test Result

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

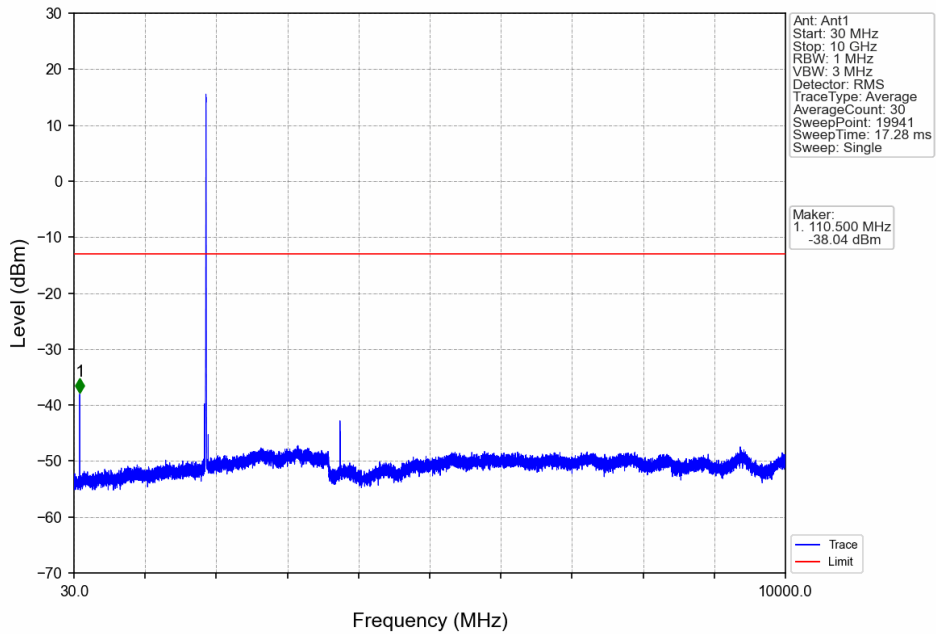
6.1.2 Test Graph



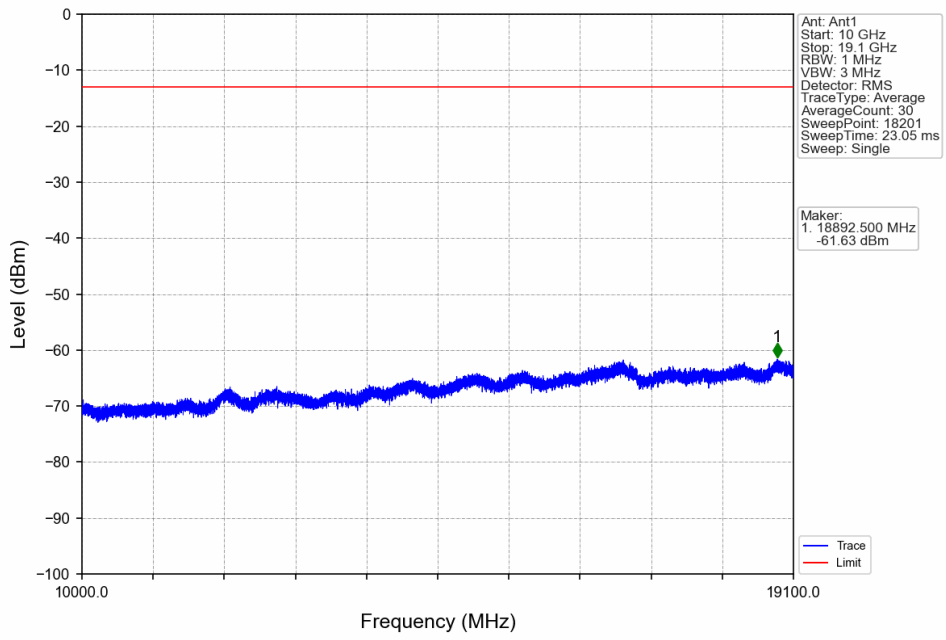
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



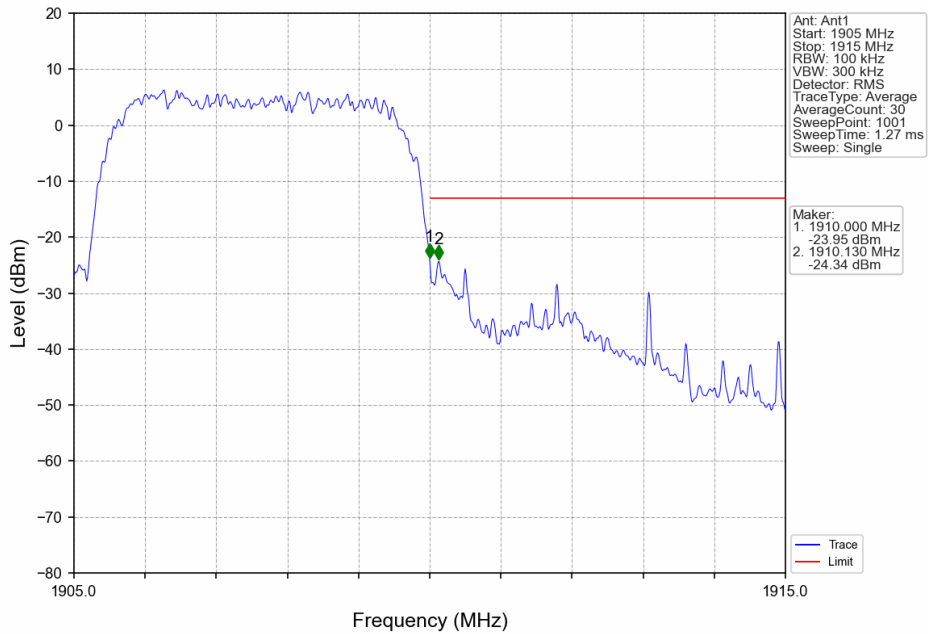
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



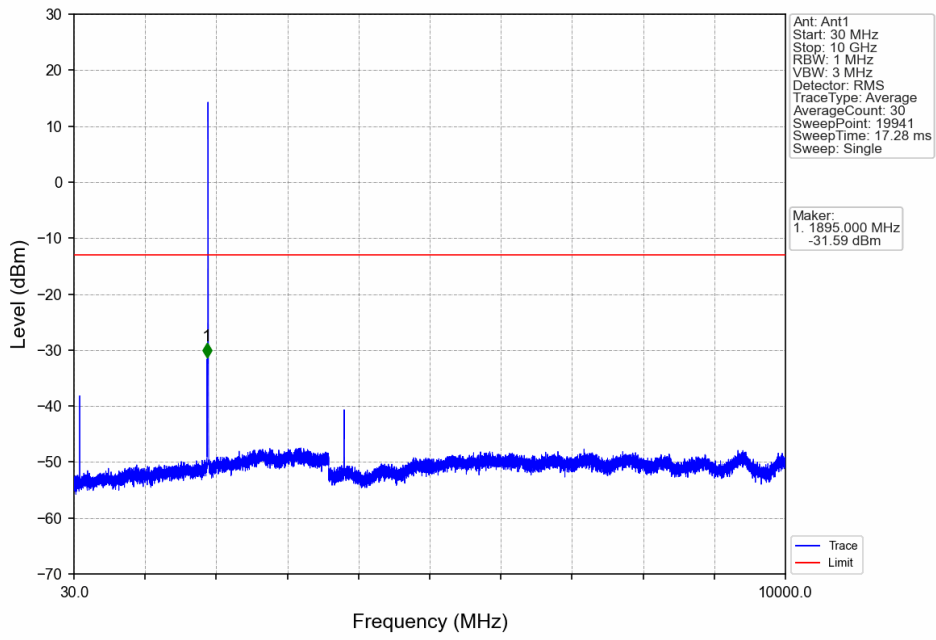
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



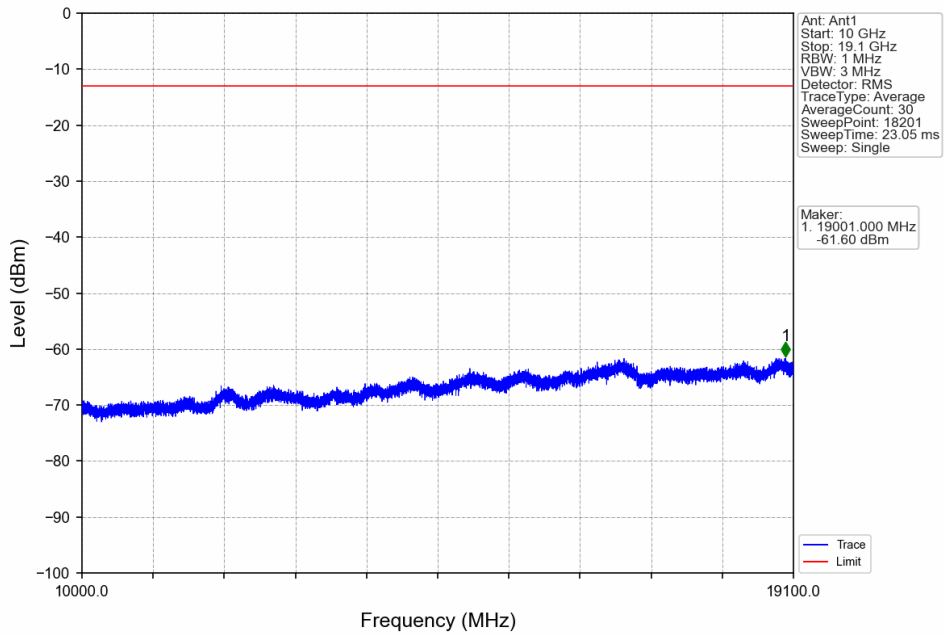
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



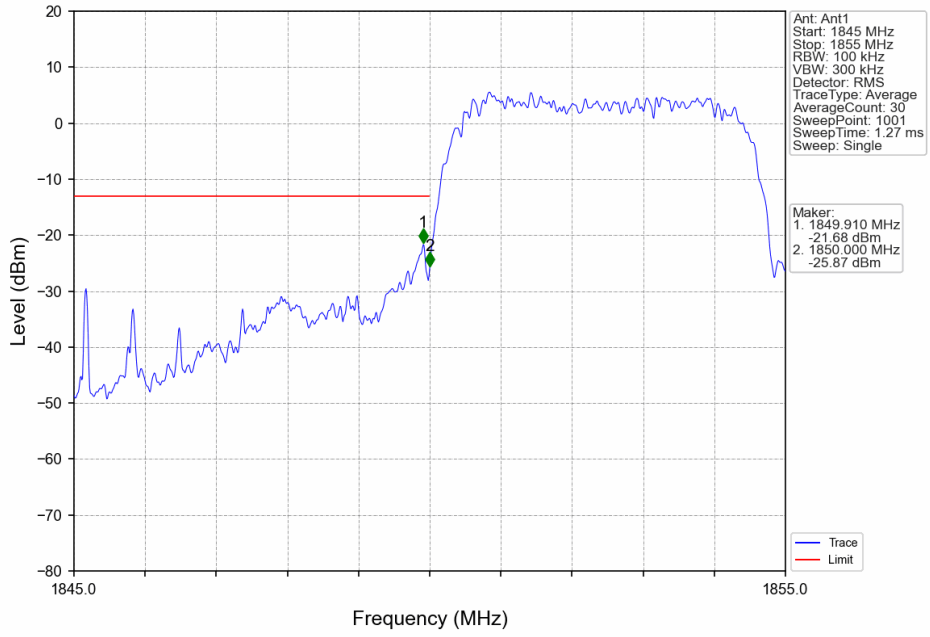
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



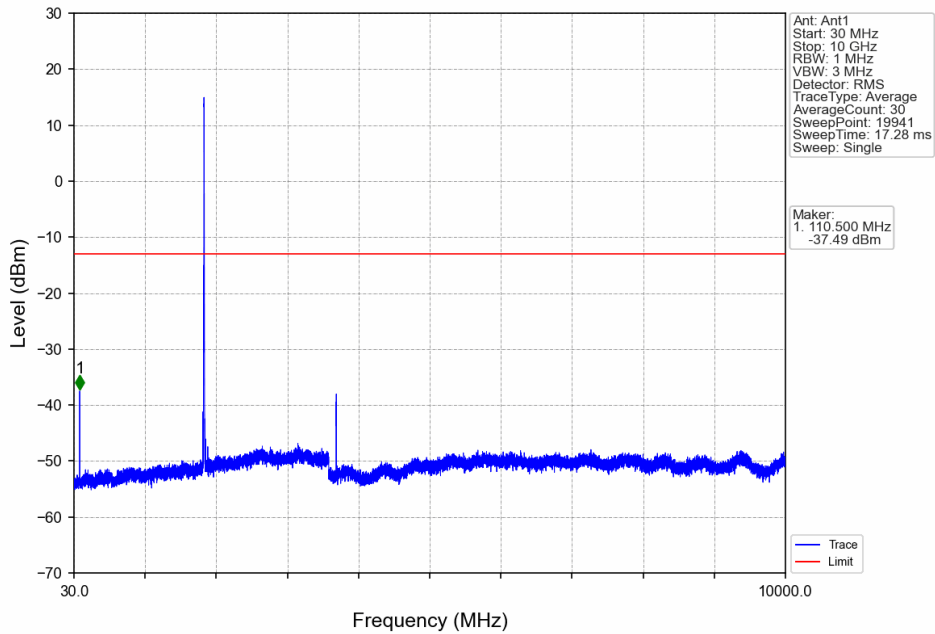
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



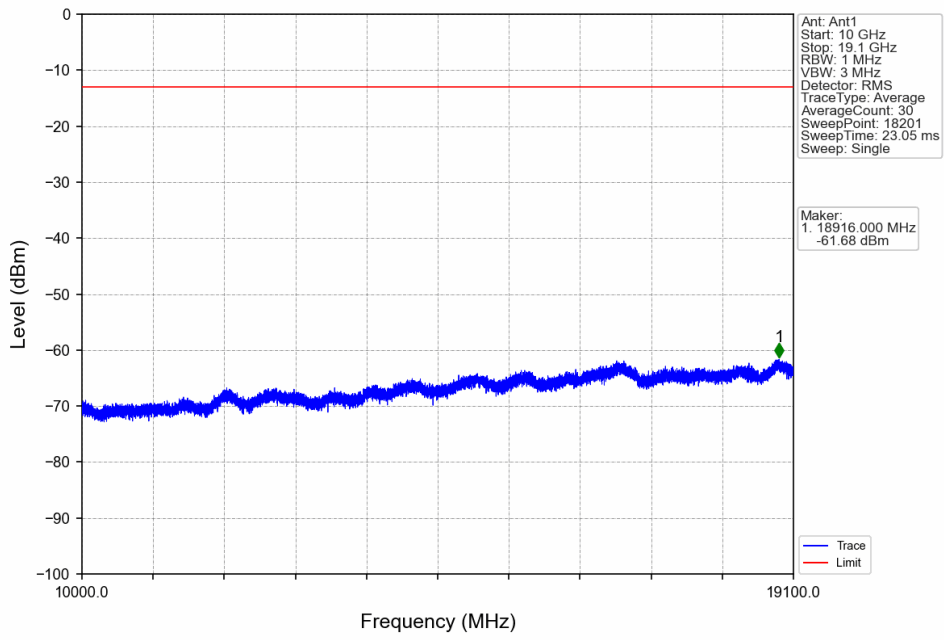
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



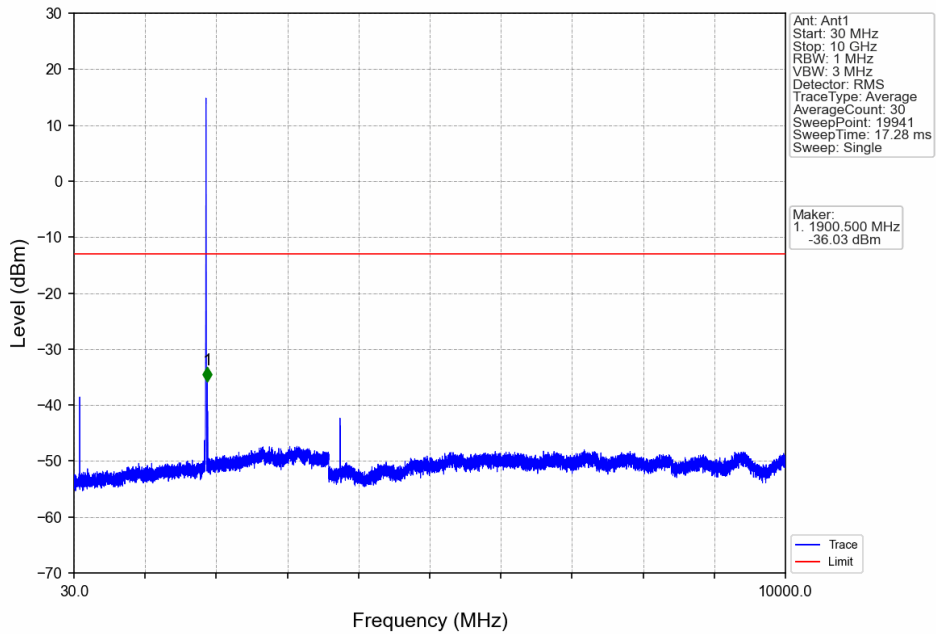
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



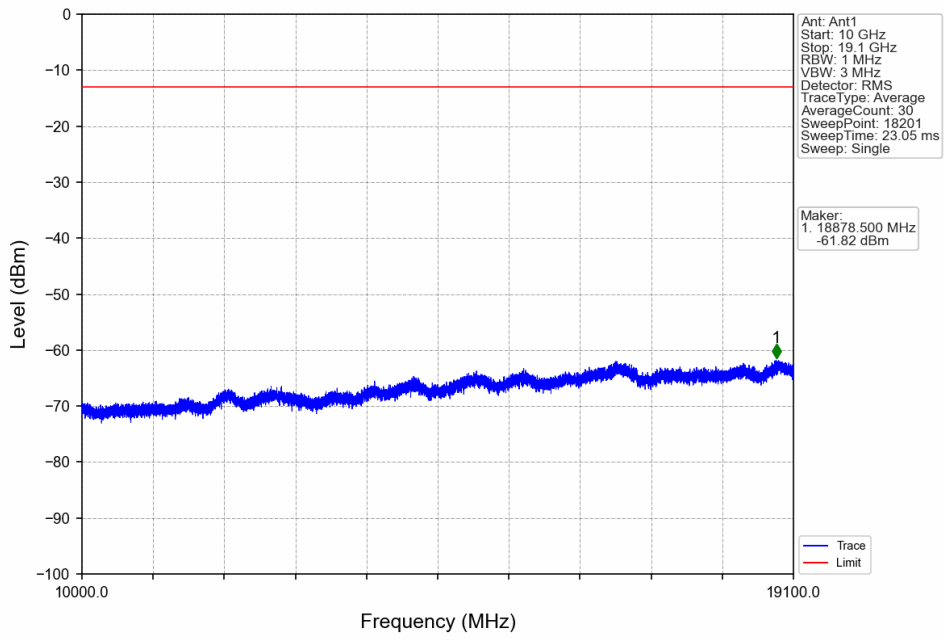
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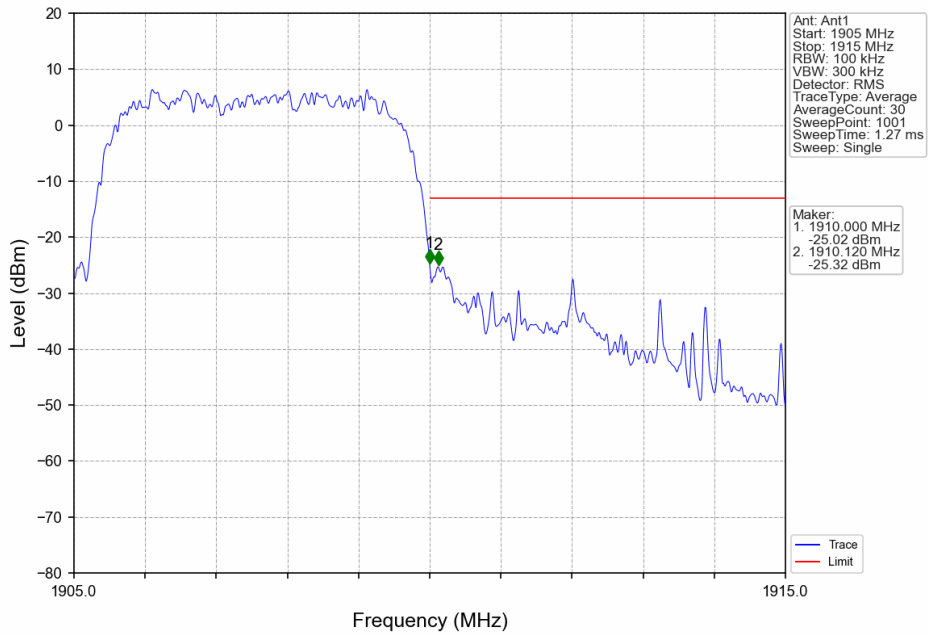
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



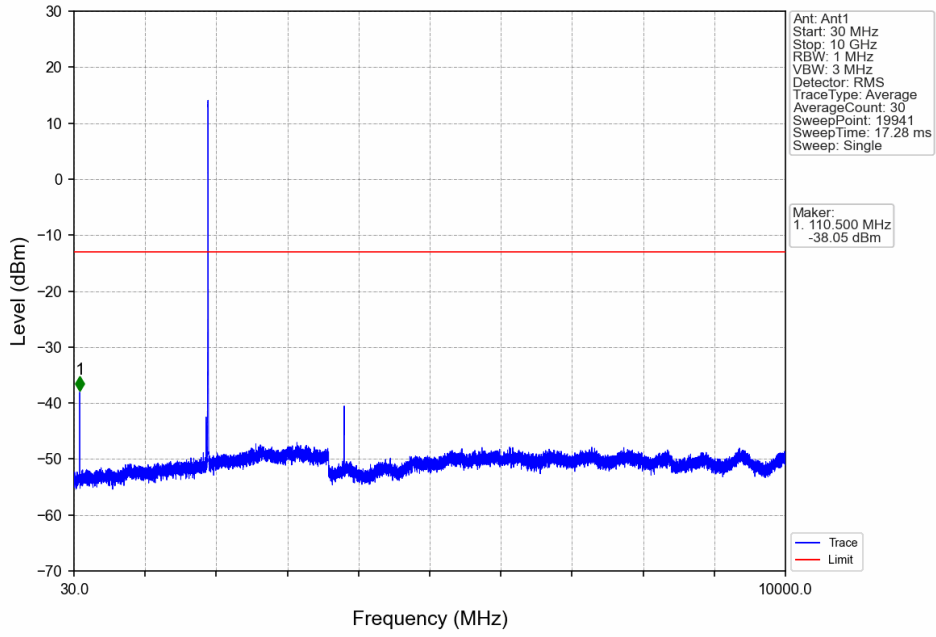
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



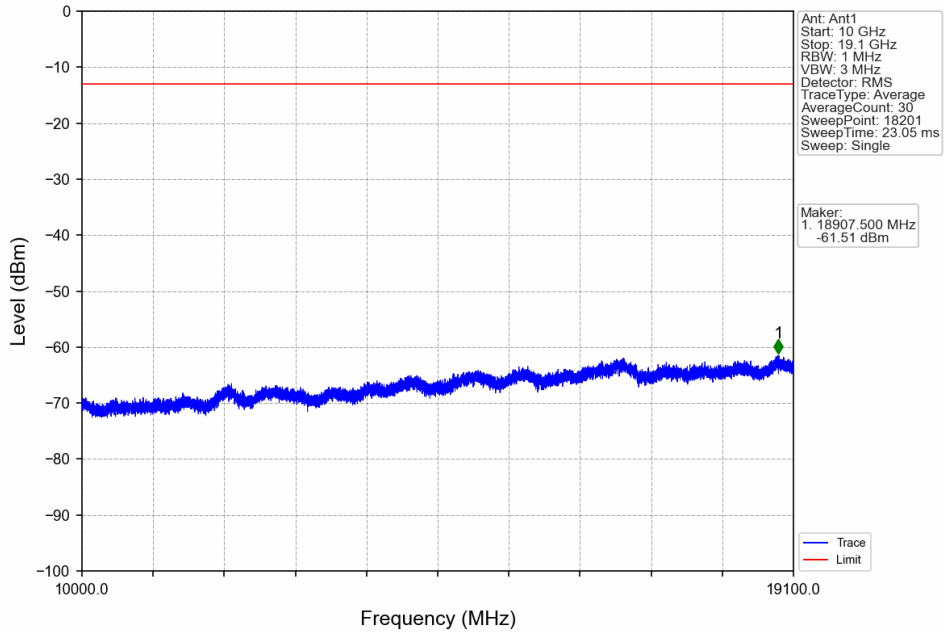
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



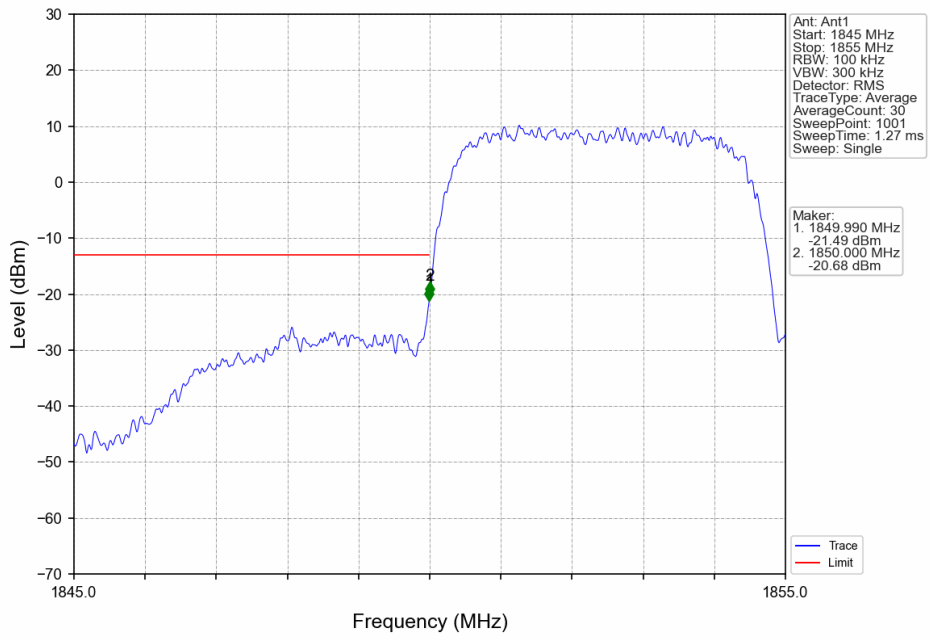
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



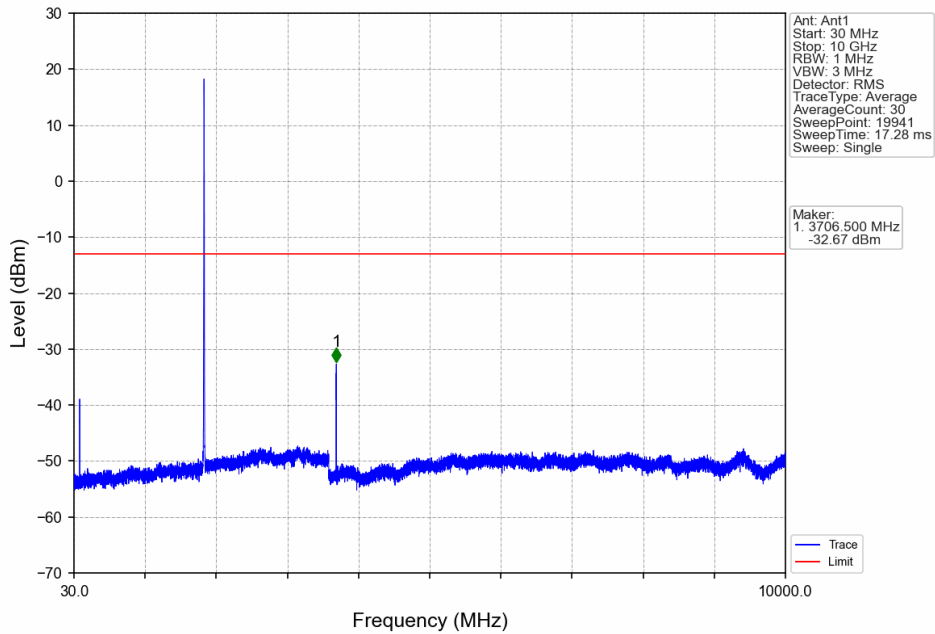
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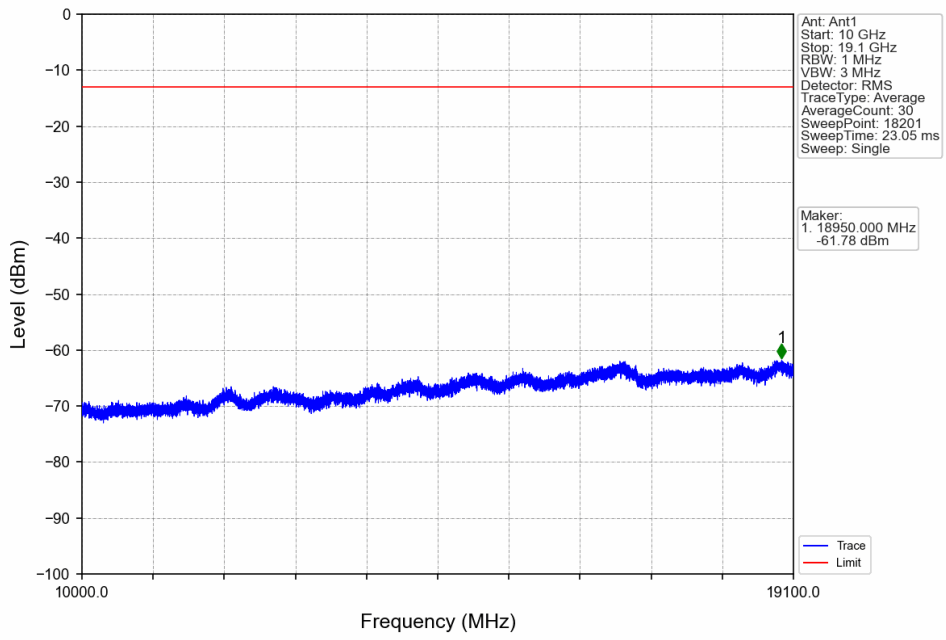
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



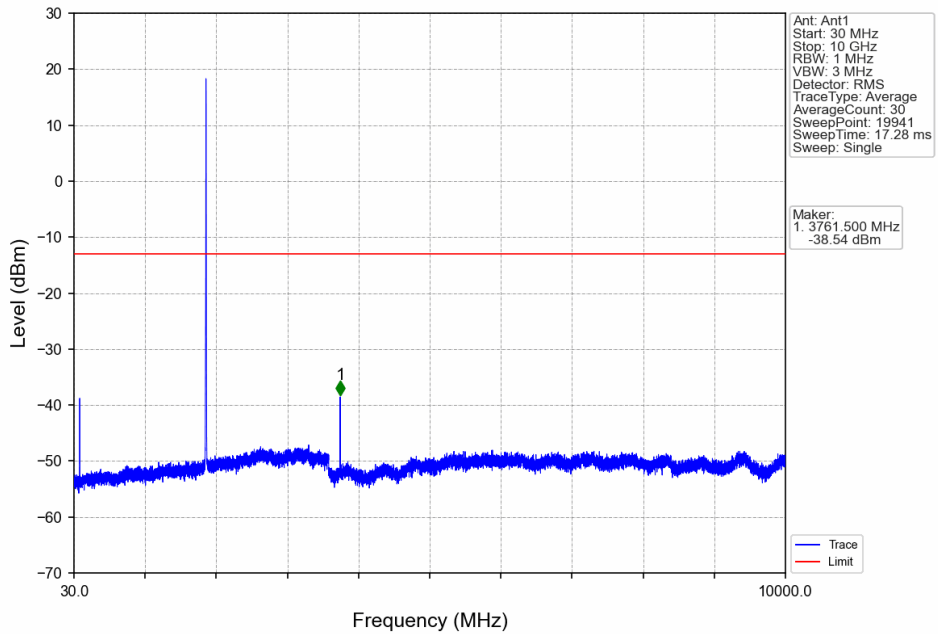
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



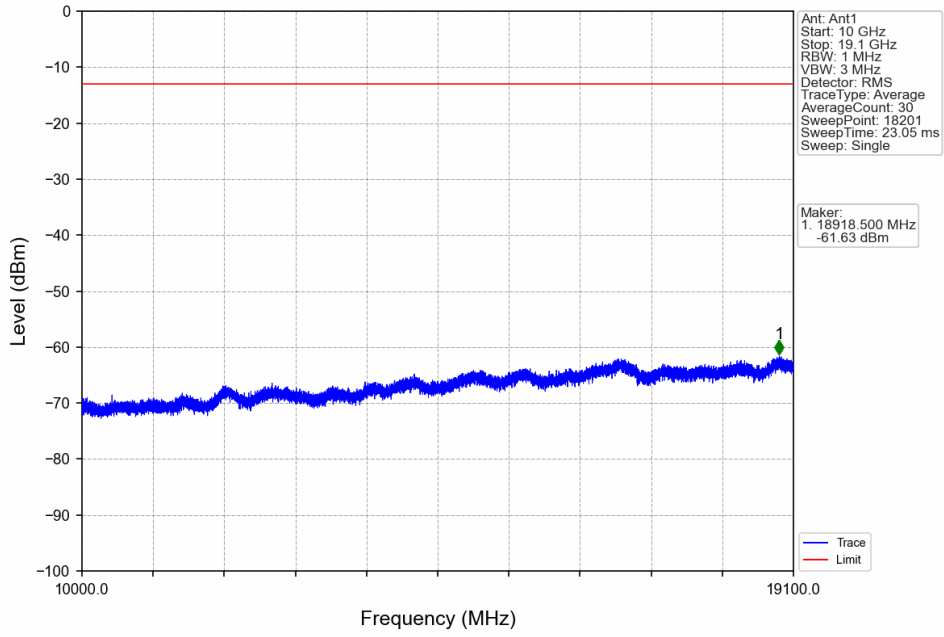
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



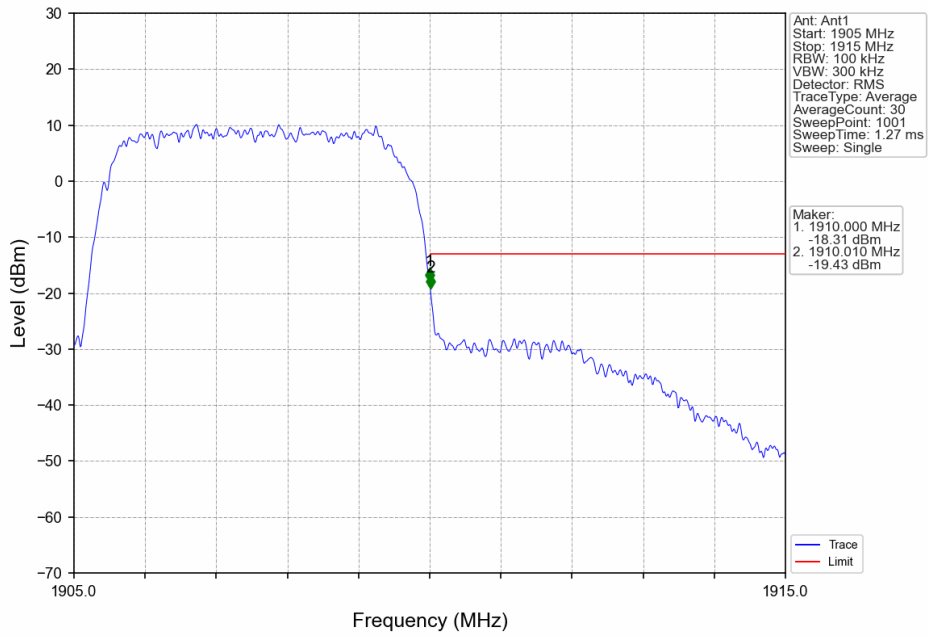
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



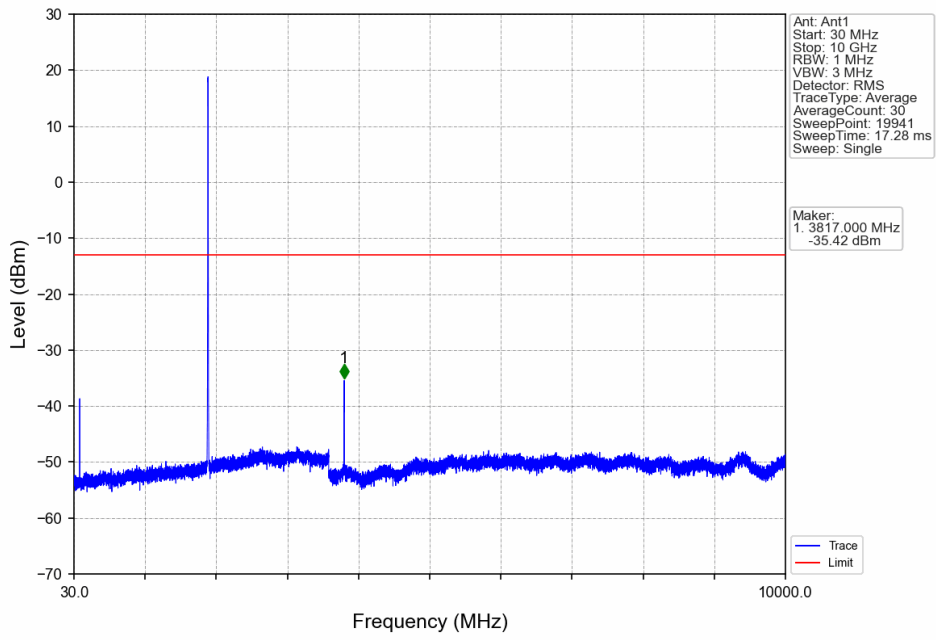
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



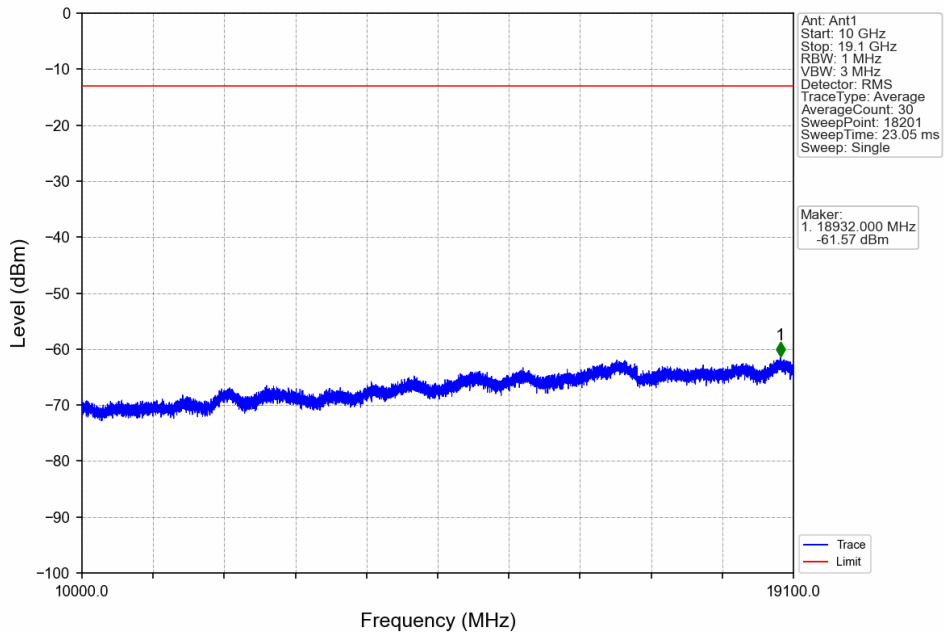
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
2	3.84	1852.4	1907.6	0.1589	0.0055	ppm	4M19F9W	24E	22.01

7.2 Form731_EIRP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
2	3.84	1852.4	1907.6	0.1795	0.0055	ppm	4M19F9W	24E	22.54