

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	RMC	12.2kbps RMC	1852.4	20.75	-0.35	20.40	<=33.01	Pass
			1880	20.42	-0.35	20.07	<=33.01	Pass
			1907.6	20.49	-0.35	20.14	<=33.01	Pass
	HSDPA	Subtest 1	1852.4	18.64	-0.35	18.29	<=33.01	Pass
		Subtest 2	1852.4	18.56	-0.35	18.21	<=33.01	Pass
		Subtest 3	1852.4	18.60	-0.35	18.25	<=33.01	Pass
		Subtest 4	1852.4	18.57	-0.35	18.22	<=33.01	Pass
		Subtest 1	1880	18.27	-0.35	17.92	<=33.01	Pass
		Subtest 2	1880	18.29	-0.35	17.94	<=33.01	Pass
		Subtest 3	1880	18.28	-0.35	17.93	<=33.01	Pass
		Subtest 4	1880	18.27	-0.35	17.92	<=33.01	Pass
		Subtest 1	1907.6	18.31	-0.35	17.96	<=33.01	Pass
		Subtest 2	1907.6	18.32	-0.35	17.97	<=33.01	Pass
		Subtest 3	1907.6	18.31	-0.35	17.96	<=33.01	Pass
		Subtest 4	1907.6	18.30	-0.35	17.95	<=33.01	Pass
	HSUPA	Subtest 1	1852.4	16.49	-0.35	16.14	<=33.01	Pass
		Subtest 2	1852.4	16.28	-0.35	15.93	<=33.01	Pass
		Subtest 3	1852.4	16.23	-0.35	15.88	<=33.01	Pass
		Subtest 4	1852.4	16.24	-0.35	15.89	<=33.01	Pass
		Subtest 5	1852.4	16.52	-0.35	16.17	<=33.01	Pass
		Subtest 1	1880	15.91	-0.35	15.56	<=33.01	Pass
		Subtest 2	1880	16.14	-0.35	15.79	<=33.01	Pass
		Subtest 3	1880	15.66	-0.35	15.31	<=33.01	Pass
		Subtest 4	1880	15.91	-0.35	15.56	<=33.01	Pass
		Subtest 5	1880	16.15	-0.35	15.80	<=33.01	Pass
		Subtest 1	1907.6	16.20	-0.35	15.85	<=33.01	Pass
		Subtest 2	1907.6	15.68	-0.35	15.33	<=33.01	Pass
		Subtest 3	1907.6	16.19	-0.35	15.84	<=33.01	Pass
		Subtest 4	1907.6	16.21	-0.35	15.86	<=33.01	Pass
		Subtest 5	1907.6	16.02	-0.35	15.67	<=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	
RMC	1852.4	20	3.27	-11.301	-0.0061	-2.5 to 2.5	Pass
			3.85	-6.616	-0.0036	-2.5 to 2.5	Pass
			4.43	-8.061	-0.0044	-2.5 to 2.5	Pass
		-30	3.85	-8.662	-0.0047	-2.5 to 2.5	Pass
		-20	3.85	-9.305	-0.0050	-2.5 to 2.5	Pass

		-10	3.85	-8.583	-0.0046	-2.5 to 2.5	Pass
		0	3.85	-7.596	-0.0041	-2.5 to 2.5	Pass
		10	3.85	-6.752	-0.0036	-2.5 to 2.5	Pass
		30	3.85	-12.088	-0.0065	-2.5 to 2.5	Pass
		40	3.85	-11.230	-0.0061	-2.5 to 2.5	Pass
		50	3.85	-8.655	-0.0047	-2.5 to 2.5	Pass
	1880	20	3.27	-9.742	-0.0052	-2.5 to 2.5	Pass
			3.85	-8.526	-0.0045	-2.5 to 2.5	Pass
			4.43	-7.231	-0.0038	-2.5 to 2.5	Pass
		-30	3.85	-14.548	-0.0077	-2.5 to 2.5	Pass
		-20	3.85	-5.271	-0.0028	-2.5 to 2.5	Pass
		-10	3.85	-9.677	-0.0051	-2.5 to 2.5	Pass
		0	3.85	-10.958	-0.0058	-2.5 to 2.5	Pass
		10	3.85	-5.622	-0.0030	-2.5 to 2.5	Pass
		30	3.85	-10.493	-0.0056	-2.5 to 2.5	Pass
		40	3.85	-7.088	-0.0038	-2.5 to 2.5	Pass
		50	3.85	-5.307	-0.0028	-2.5 to 2.5	Pass
		1907.6	20	3.27	-8.290	-0.0043	-2.5 to 2.5
	3.85			-11.258	-0.0059	-2.5 to 2.5	Pass
	4.43			-7.582	-0.0040	-2.5 to 2.5	Pass
	-30		3.85	-5.686	-0.0030	-2.5 to 2.5	Pass
	-20		3.85	-6.487	-0.0034	-2.5 to 2.5	Pass
	-10		3.85	-8.569	-0.0045	-2.5 to 2.5	Pass
	0		3.85	-6.673	-0.0035	-2.5 to 2.5	Pass
	10		3.85	-11.029	-0.0058	-2.5 to 2.5	Pass
	30		3.85	-6.616	-0.0035	-2.5 to 2.5	Pass
	40		3.85	-6.001	-0.0031	-2.5 to 2.5	Pass
	50		3.85	-3.047	-0.0016	-2.5 to 2.5	Pass

HSDPA	1852.4	20	3.27	-17.710	-0.0096	-2.5 to 2.5	Pass
			3.85	-10.965	-0.0059	-2.5 to 2.5	Pass
			4.43	-14.141	-0.0076	-2.5 to 2.5	Pass
		-30	3.85	-19.698	-0.0106	-2.5 to 2.5	Pass
		-20	3.85	-12.932	-0.0070	-2.5 to 2.5	Pass
		-10	3.85	-12.753	-0.0069	-2.5 to 2.5	Pass
		0	3.85	-12.660	-0.0068	-2.5 to 2.5	Pass
		10	3.85	-12.224	-0.0066	-2.5 to 2.5	Pass
		30	3.85	-10.207	-0.0055	-2.5 to 2.5	Pass
		40	3.85	-8.883	-0.0048	-2.5 to 2.5	Pass
		50	3.85	-11.022	-0.0060	-2.5 to 2.5	Pass
		1880	20	3.27	-9.913	-0.0053	-2.5 to 2.5
	3.85			-14.706	-0.0078	-2.5 to 2.5	Pass
	4.43			-12.066	-0.0064	-2.5 to 2.5	Pass
	-30		3.85	-10.364	-0.0055	-2.5 to 2.5	Pass
	-20		3.85	-15.993	-0.0085	-2.5 to 2.5	Pass
	-10		3.85	-17.545	-0.0093	-2.5 to 2.5	Pass
	0		3.85	-13.318	-0.0071	-2.5 to 2.5	Pass
	10		3.85	-17.967	-0.0096	-2.5 to 2.5	Pass
	30		3.85	-17.831	-0.0095	-2.5 to 2.5	Pass
	40		3.85	-8.619	-0.0046	-2.5 to 2.5	Pass
	50		3.85	-11.408	-0.0061	-2.5 to 2.5	Pass
	1907.6		20	3.27	-10.529	-0.0055	-2.5 to 2.5
		3.85		-15.142	-0.0079	-2.5 to 2.5	Pass
		4.43		-16.272	-0.0085	-2.5 to 2.5	Pass
		-30	3.85	-14.169	-0.0074	-2.5 to 2.5	Pass
		-20	3.85	-11.051	-0.0058	-2.5 to 2.5	Pass
		-10	3.85	-5.851	-0.0031	-2.5 to 2.5	Pass
		0	3.85	-7.925	-0.0042	-2.5 to 2.5	Pass
		10	3.85	-4.656	-0.0024	-2.5 to 2.5	Pass
		30	3.85	-8.397	-0.0044	-2.5 to 2.5	Pass

HSUPA		40	3.85	-9.477	-0.0050	-2.5 to 2.5	Pass
		50	3.85	-6.459	-0.0034	-2.5 to 2.5	Pass
	1852.4	20	3.27	-8.247	-0.0045	-2.5 to 2.5	Pass
			3.85	-15.771	-0.0085	-2.5 to 2.5	Pass
			4.43	-6.387	-0.0034	-2.5 to 2.5	Pass
		-30	3.85	-11.401	-0.0062	-2.5 to 2.5	Pass
		-20	3.85	-9.313	-0.0050	-2.5 to 2.5	Pass
		-10	3.85	-9.599	-0.0052	-2.5 to 2.5	Pass
		0	3.85	-13.318	-0.0072	-2.5 to 2.5	Pass
		10	3.85	-9.127	-0.0049	-2.5 to 2.5	Pass
		30	3.85	-15.650	-0.0084	-2.5 to 2.5	Pass
		40	3.85	-11.122	-0.0060	-2.5 to 2.5	Pass
		50	3.85	-10.657	-0.0058	-2.5 to 2.5	Pass
	1880	20	3.27	-10.242	-0.0054	-2.5 to 2.5	Pass
			3.85	-12.696	-0.0068	-2.5 to 2.5	Pass
			4.43	-14.062	-0.0075	-2.5 to 2.5	Pass
		-30	3.85	-13.697	-0.0073	-2.5 to 2.5	Pass
		-20	3.85	-16.437	-0.0087	-2.5 to 2.5	Pass
		-10	3.85	-7.675	-0.0041	-2.5 to 2.5	Pass
		0	3.85	-12.596	-0.0067	-2.5 to 2.5	Pass
		10	3.85	-12.817	-0.0068	-2.5 to 2.5	Pass
		30	3.85	-7.989	-0.0042	-2.5 to 2.5	Pass
		40	3.85	-13.139	-0.0070	-2.5 to 2.5	Pass
		50	3.85	-10.850	-0.0058	-2.5 to 2.5	Pass
	1907.6	20	3.27	-8.097	-0.0042	-2.5 to 2.5	Pass
			3.85	-11.487	-0.0060	-2.5 to 2.5	Pass
			4.43	-6.802	-0.0036	-2.5 to 2.5	Pass
		-30	3.85	-15.378	-0.0081	-2.5 to 2.5	Pass
		-20	3.85	-11.394	-0.0060	-2.5 to 2.5	Pass
		-10	3.85	-8.118	-0.0043	-2.5 to 2.5	Pass
		0	3.85	-6.795	-0.0036	-2.5 to 2.5	Pass
		10	3.85	-11.201	-0.0059	-2.5 to 2.5	Pass
		30	3.85	-8.898	-0.0047	-2.5 to 2.5	Pass
		40	3.85	-11.280	-0.0059	-2.5 to 2.5	Pass
		50	3.85	-10.886	-0.0057	-2.5 to 2.5	Pass

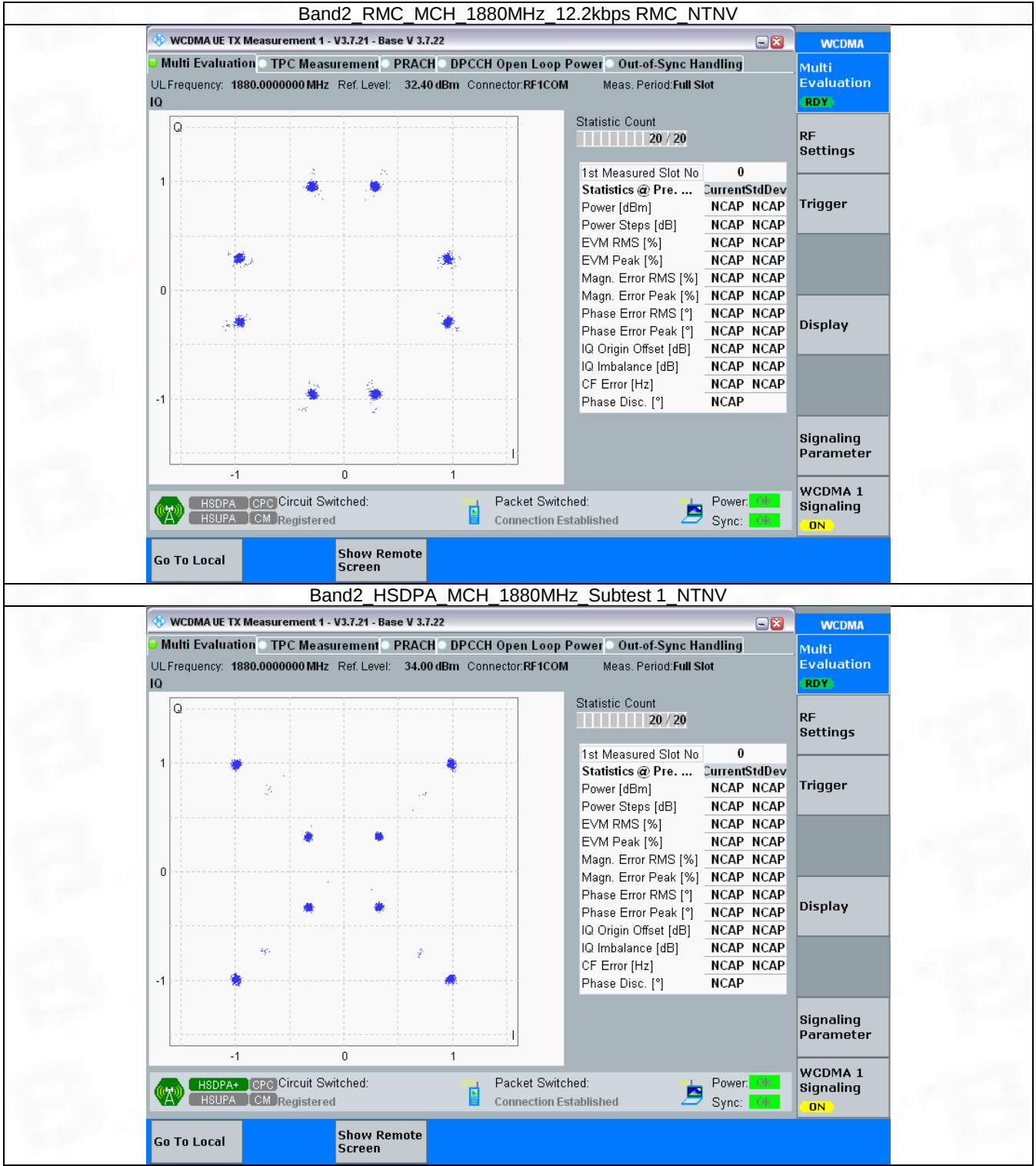
3. Modulation Characteristics

3.1 Band2

3.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	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

3.1.2 Test Graph



Band2 HSUPA MCH 1880MHz Subtest 1 NTN

WCDMA UE TX Measurement 1 - V3.7.21 - Base V 3.7.22

Multi Evaluation

TPC Measurement

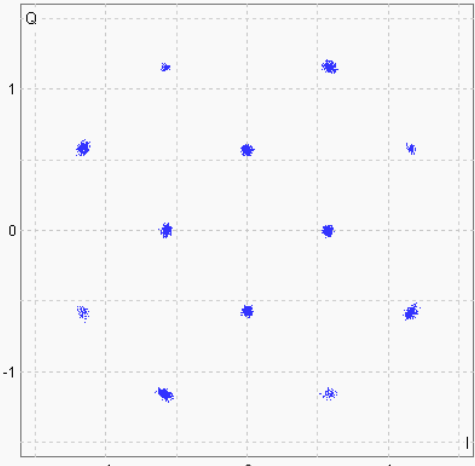
PRACH

DPCCH Open Loop Power

Out-of-Sync Handling

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

IQ



Statistic Count

20 / 20

1st Measured Slot No 0

Statistics @ Pre. ... CurrentStdDev

Power [dBm]	NCAP	NCAP
Power Steps [dB]	NCAP	NCAP
EVM RMS [%]	NCAP	NCAP
EVM Peak [%]	NCAP	NCAP
Magn. Error RMS [%]	NCAP	NCAP
Magn. Error Peak [%]	NCAP	NCAP
Phase Error RMS [°]	NCAP	NCAP
Phase Error Peak [°]	NCAP	NCAP
IQ Origin Offset [dB]	NCAP	NCAP
IQ Imbalance [dB]	NCAP	NCAP
CF Error [Hz]	NCAP	NCAP
Phase Disc. [°]	NCAP	

HSDPA+

HSUPA

CPC

CM

Circuit Switched:
Registered

Packet Switched:
Connection Established

Power: 5%

Sync: 100%

Go To Local

Show Remote Screen

WCDMA

Multi Evaluation

RDY

RF Settings

Trigger

Display

Signaling Parameter

WCDMA 1 Signaling

ON

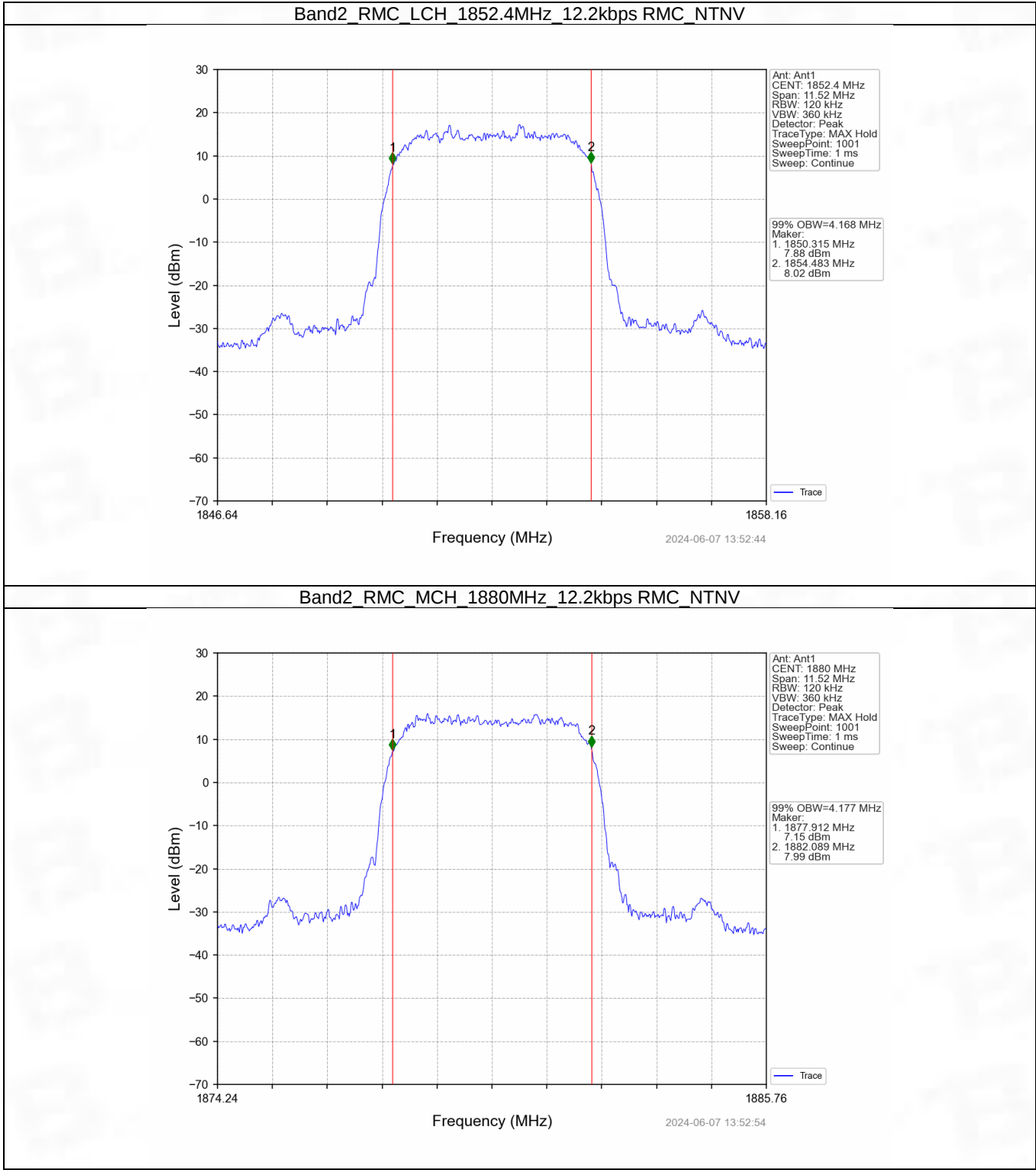
4. 99% & 26dB Bandwidth

4.1 Band2_OBW

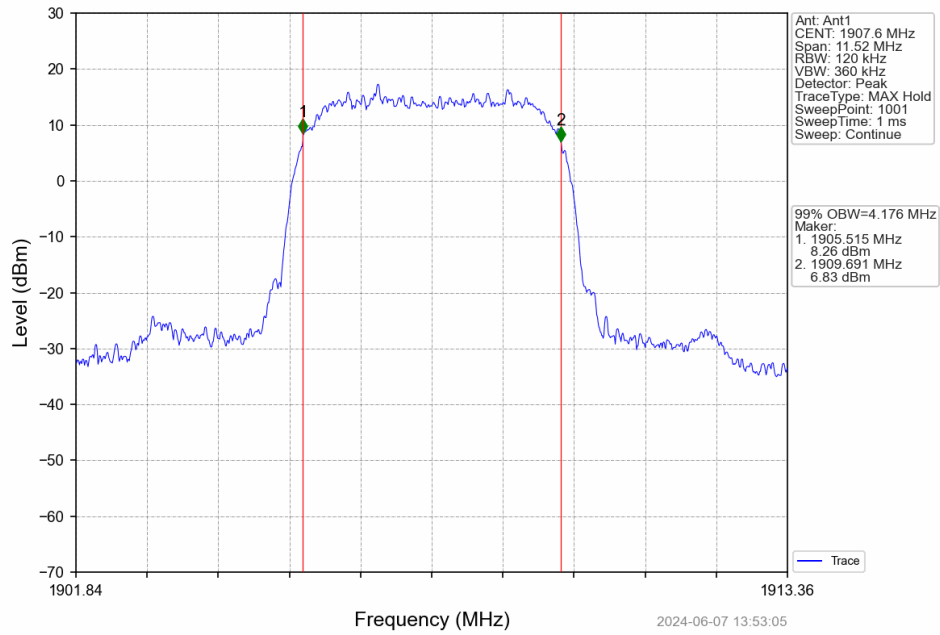
4.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.168	/	Pass
			1880	4.177	/	Pass
			1907.6	4.176	/	Pass
	HSDPA	Subtest 1	1852.4	4.254	/	Pass
			1880	4.251	/	Pass
			1907.6	4.243	/	Pass
	HSUPA	Subtest 1	1852.4	4.252	/	Pass
			1880	4.233	/	Pass
			1907.6	4.279	/	Pass

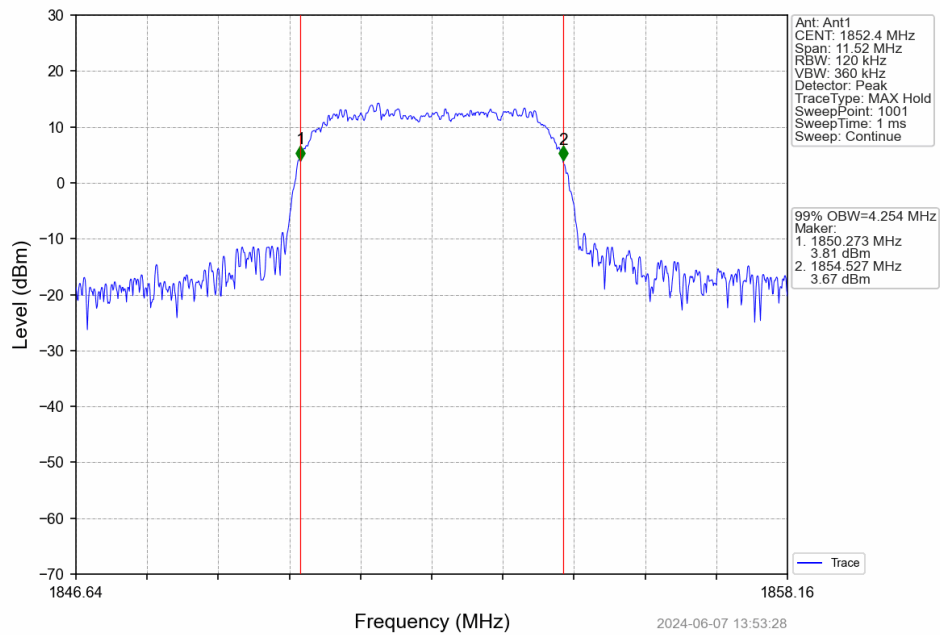
4.1.2 Test Graph



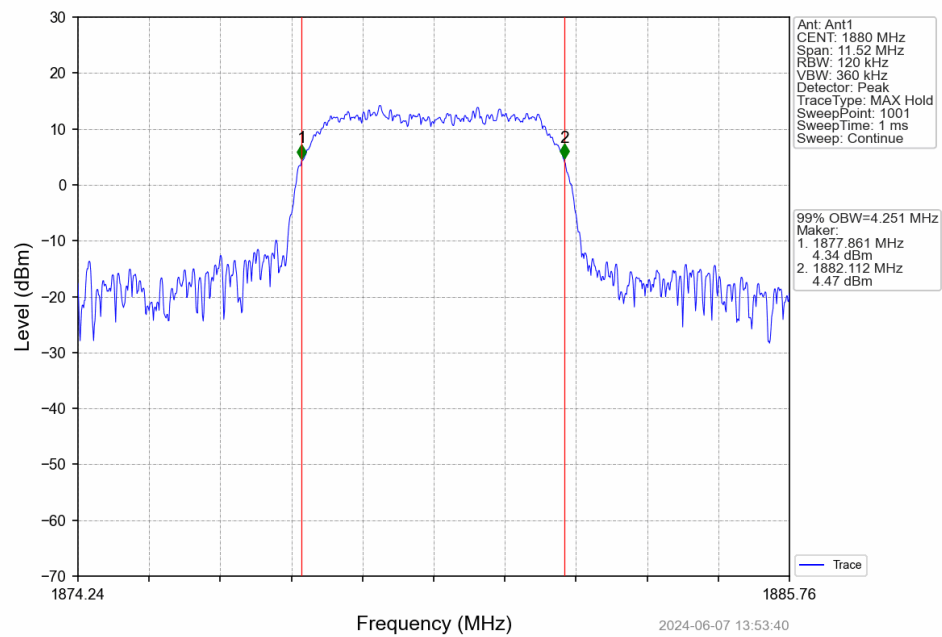
Band2 RMC HCH 1907.6MHz 12.2kbps RMC NTN



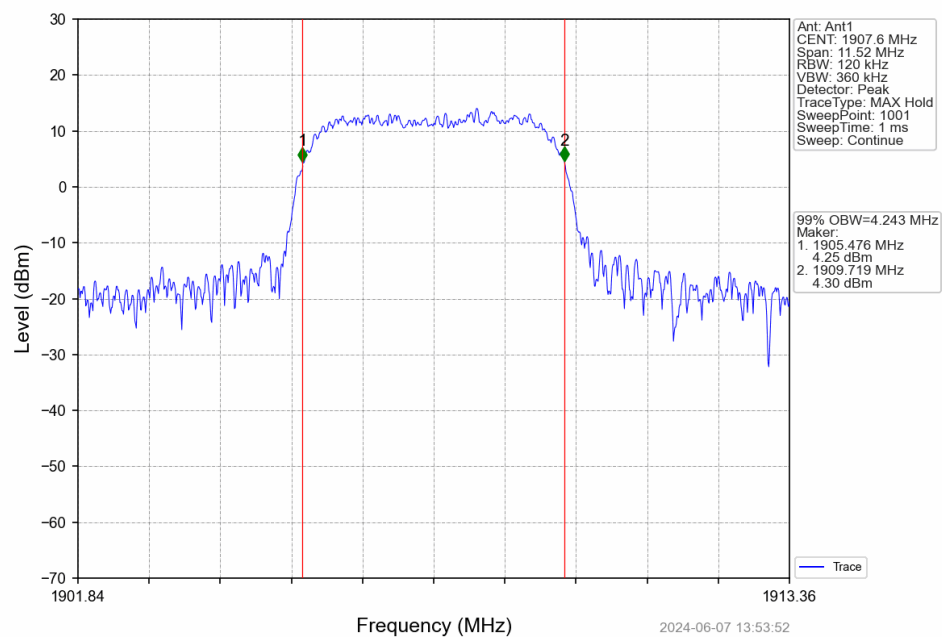
Band2 HSDPA LCH 1852.4MHz Subtest 1 NTN



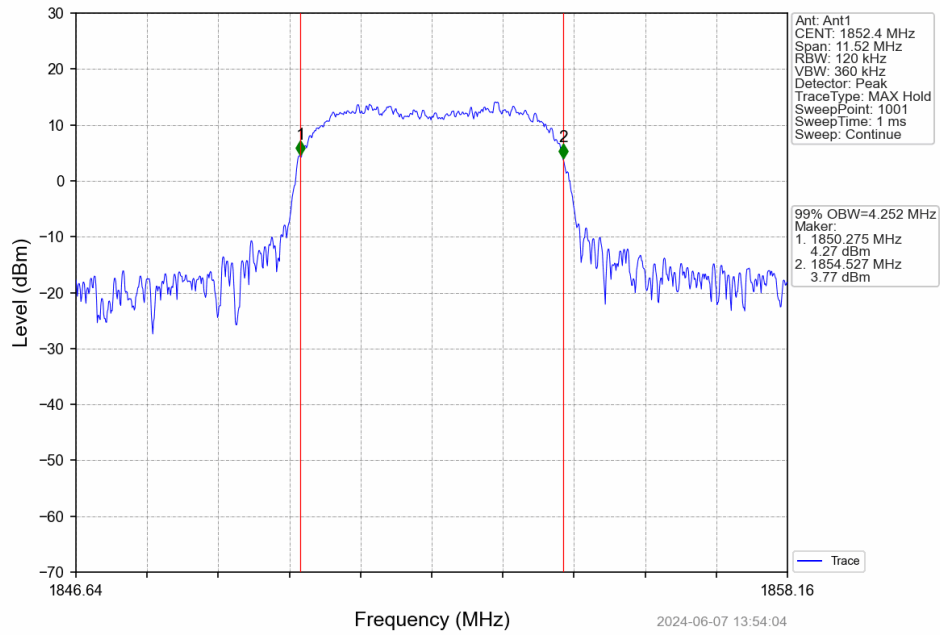
Band2 HSDPA MCH 1880MHz Subtest 1 NTN



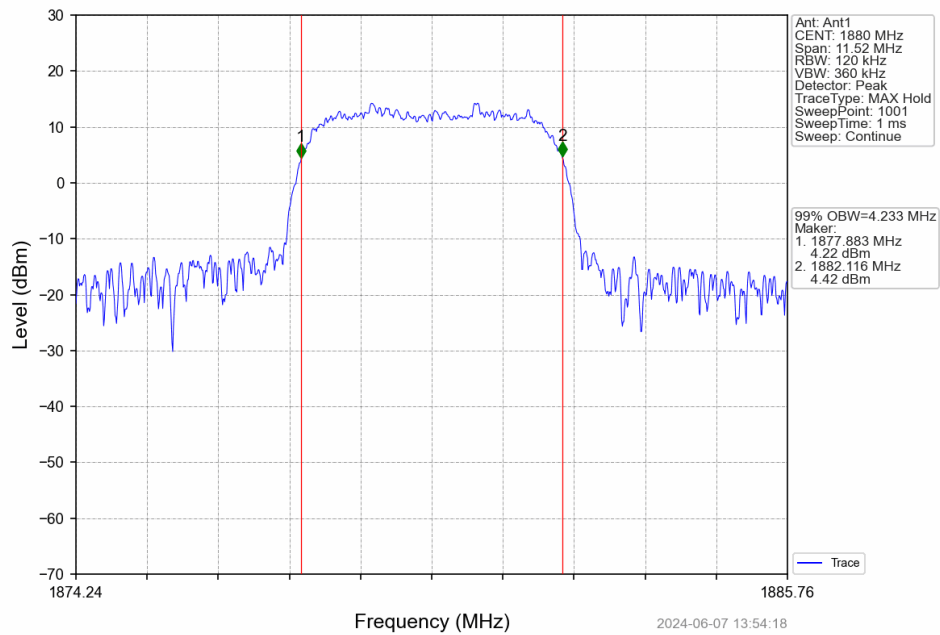
Band2 HSDPA HCH 1907.6MHz Subtest 1 NTN



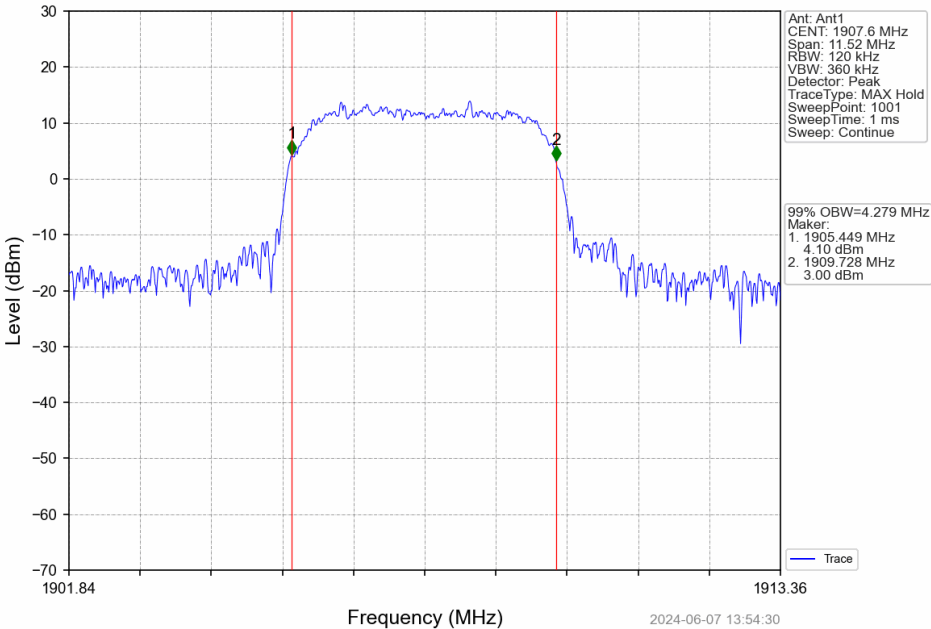
Band2 HSUPA LCH 1852.4MHz Subtest 1 NTN



Band2 HSUPA MCH 1880MHz Subtest 1 NTN



Band2 HSUPA HCH 1907.6MHz Subtest 1 NTN

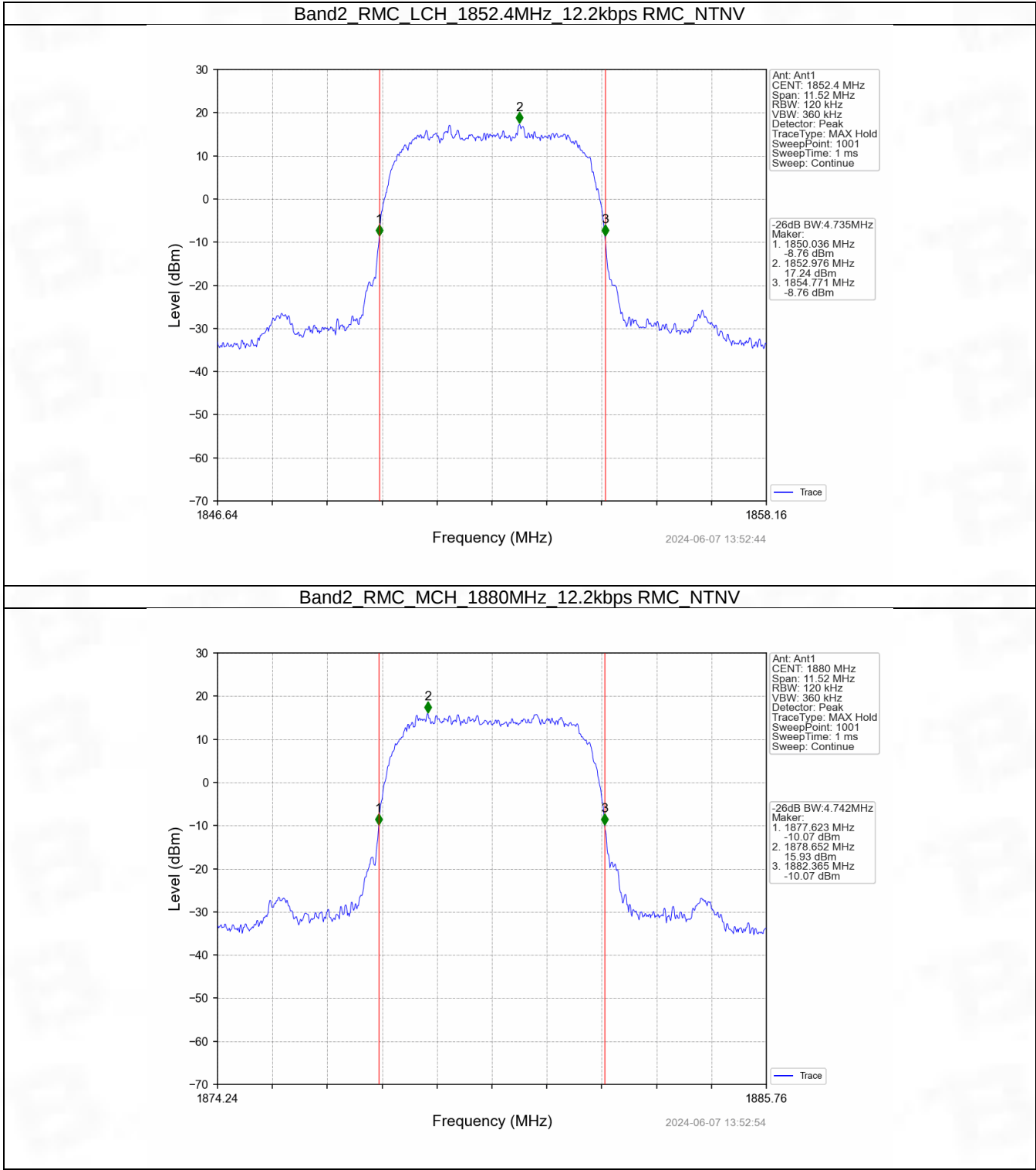


4.2 Band2_XDB

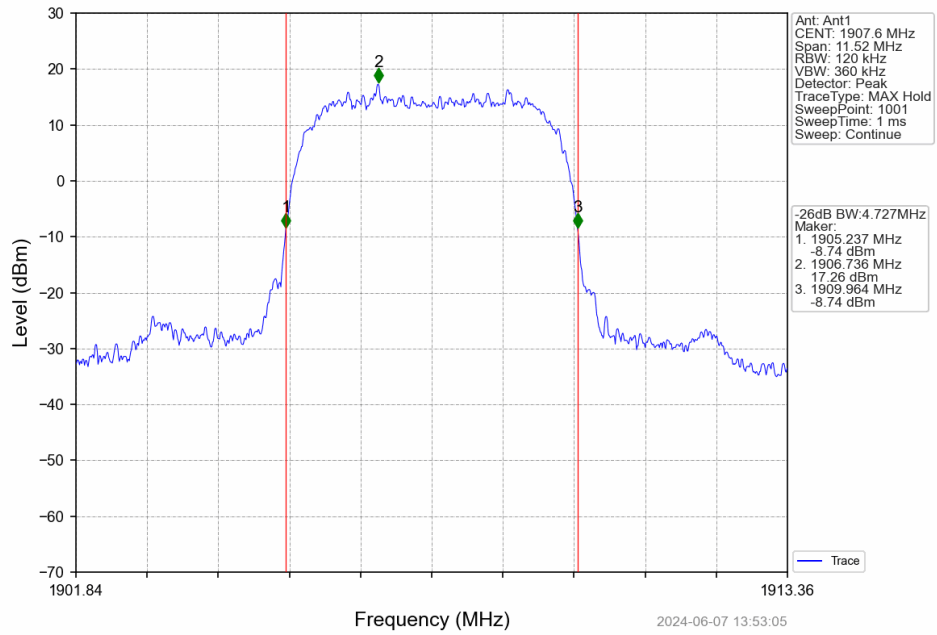
4.2.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.735	/	Pass
			1880	4.742	/	Pass
			1907.6	4.727	/	Pass
	HSDPA	Subtest 1	1852.4	6.007	/	Pass
			1880	5.249	/	Pass
			1907.6	5.492	/	Pass
	HSUPA	Subtest 1	1852.4	5.692	/	Pass
			1880	5.044	/	Pass
			1907.6	5.926	/	Pass

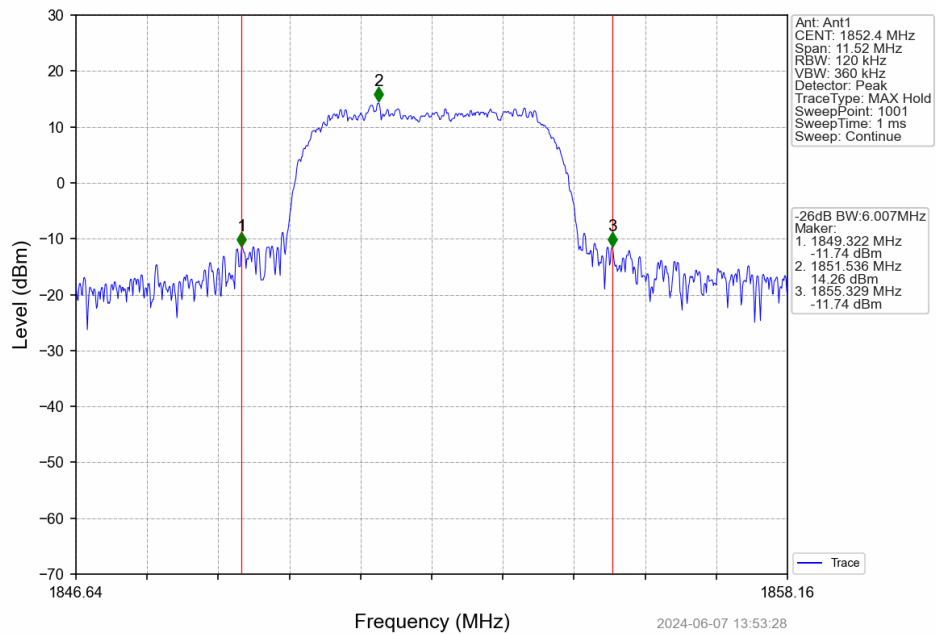
4.2.2 Test Graph



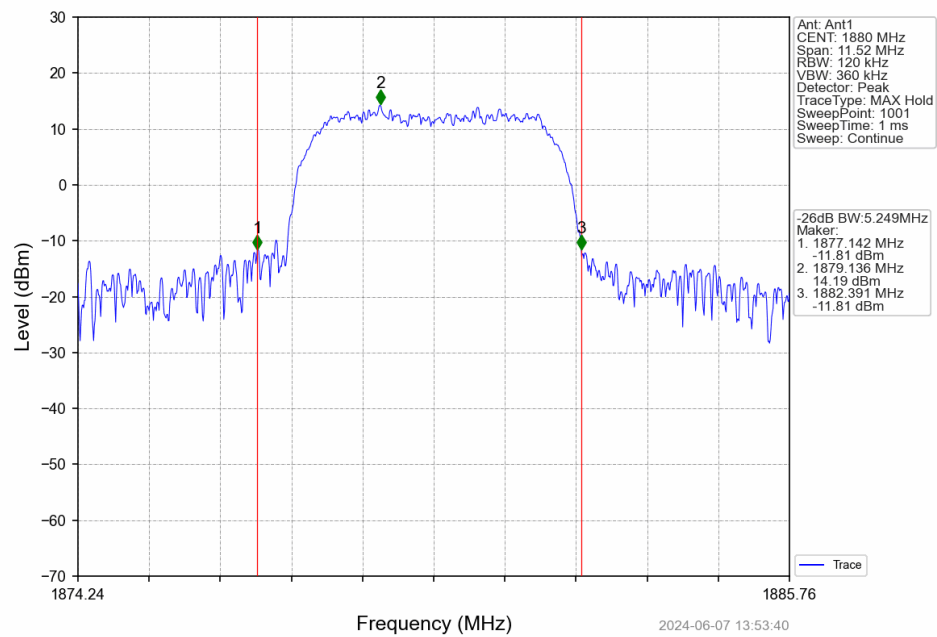
Band2 RMC HCH 1907.6MHz 12.2kbps RMC NTN



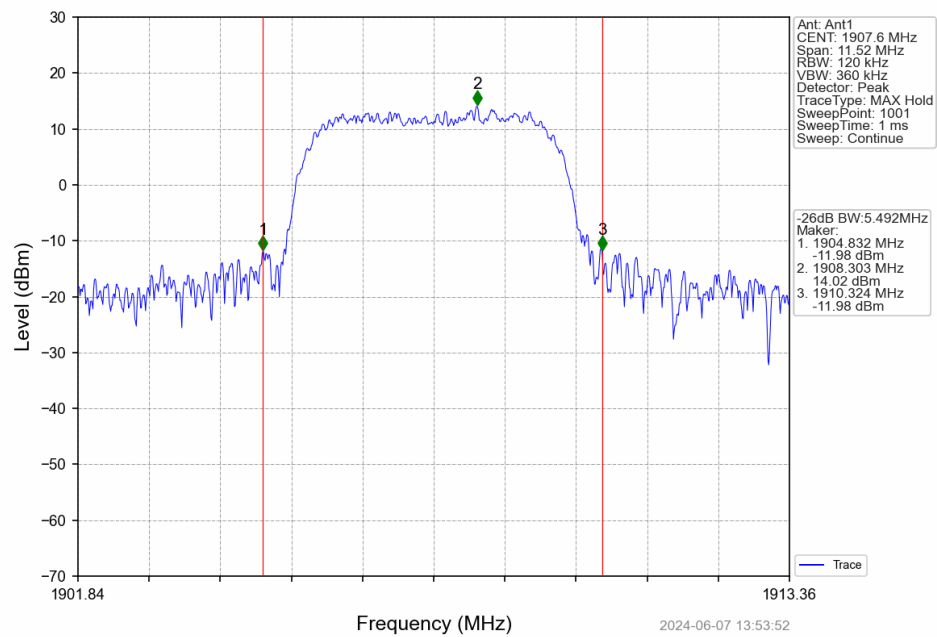
Band2 HSDPA LCH 1852.4MHz Subtest 1 NTN



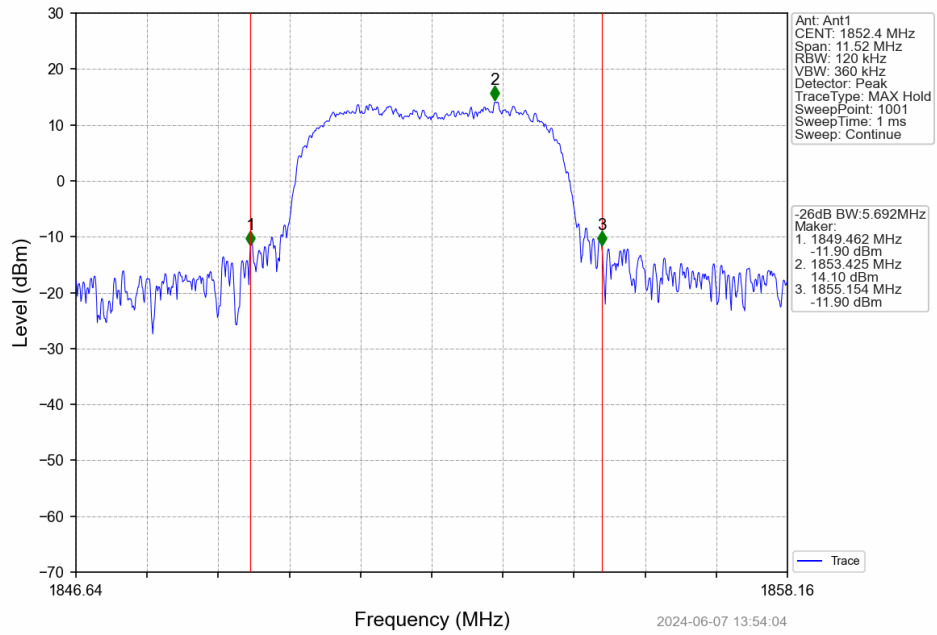
Band2 HSDPA MCH 1880MHz Subtest 1 NTN



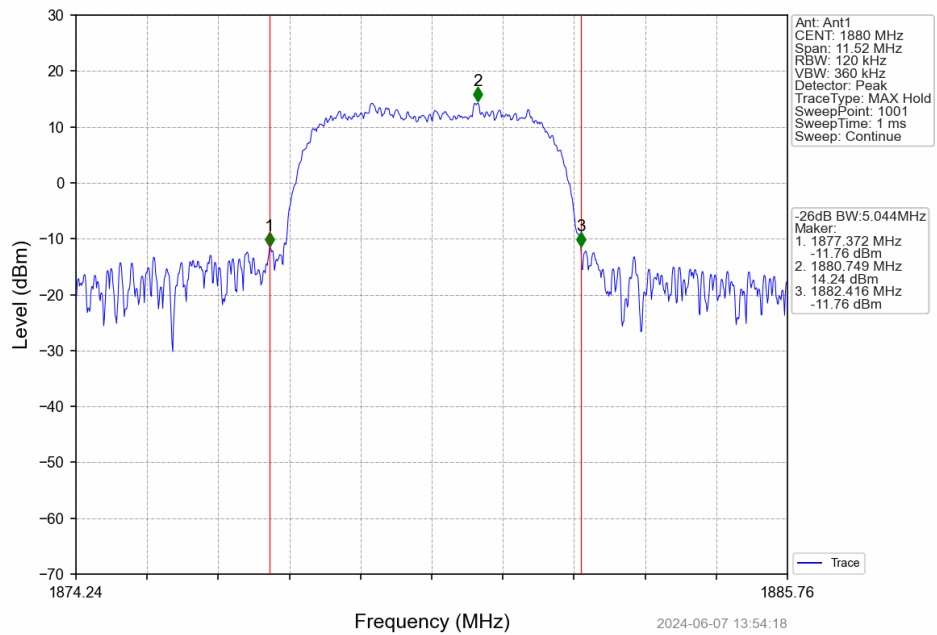
Band2 HSDPA HCH 1907.6MHz Subtest 1 NTN



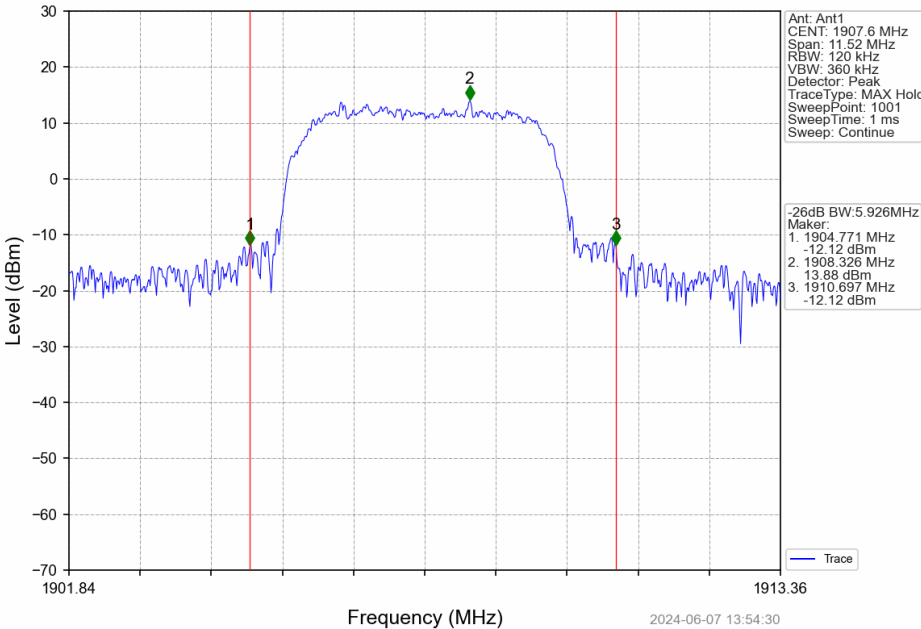
Band2 HSUPA LCH 1852.4MHz Subtest 1 NTN



Band2 HSUPA MCH 1880MHz Subtest 1 NTN



Band2 HSUPA HCH 1907.6MHz Subtest 1 NTN



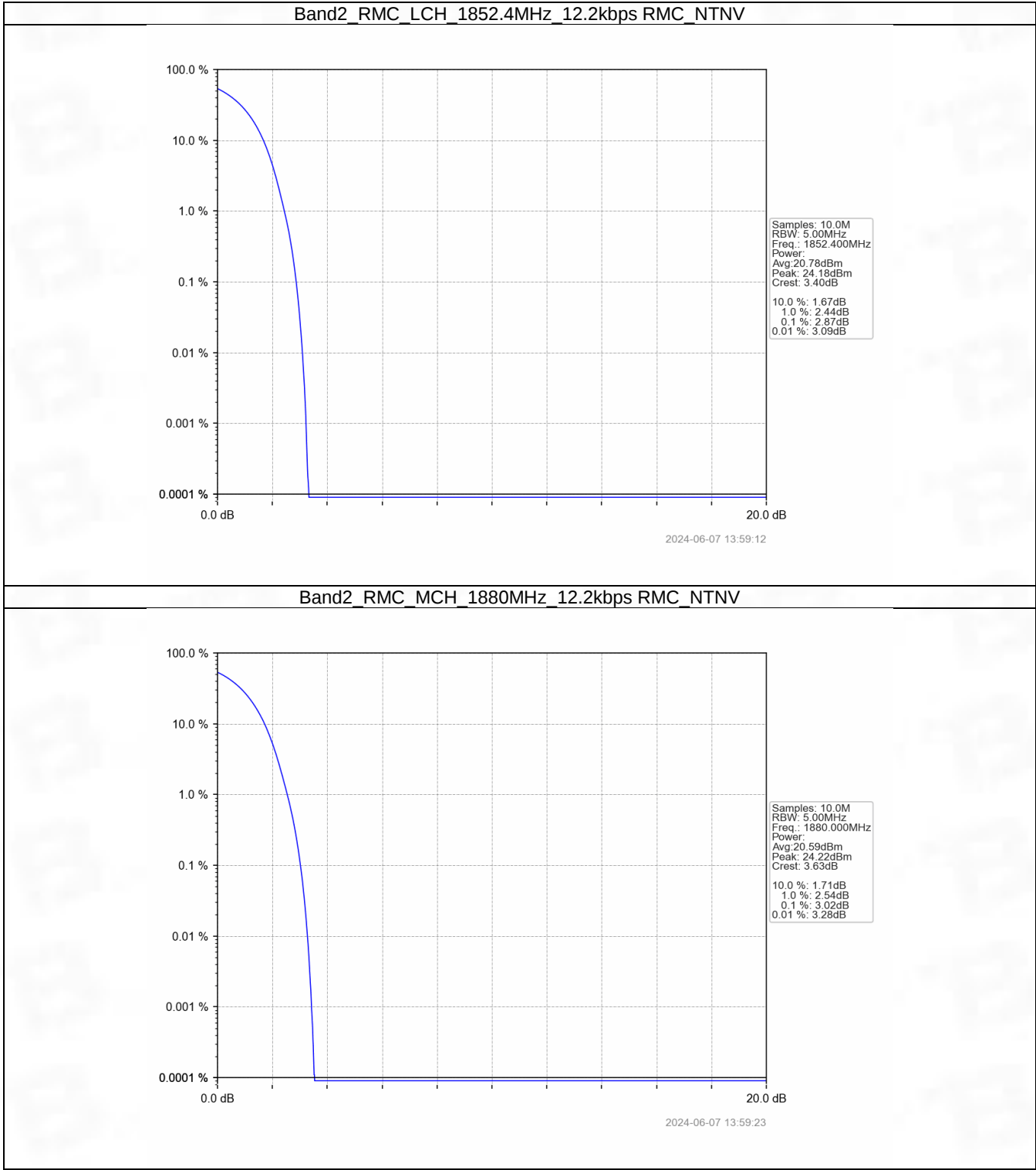
5. Peak-Average Ratio

5.1 Band2

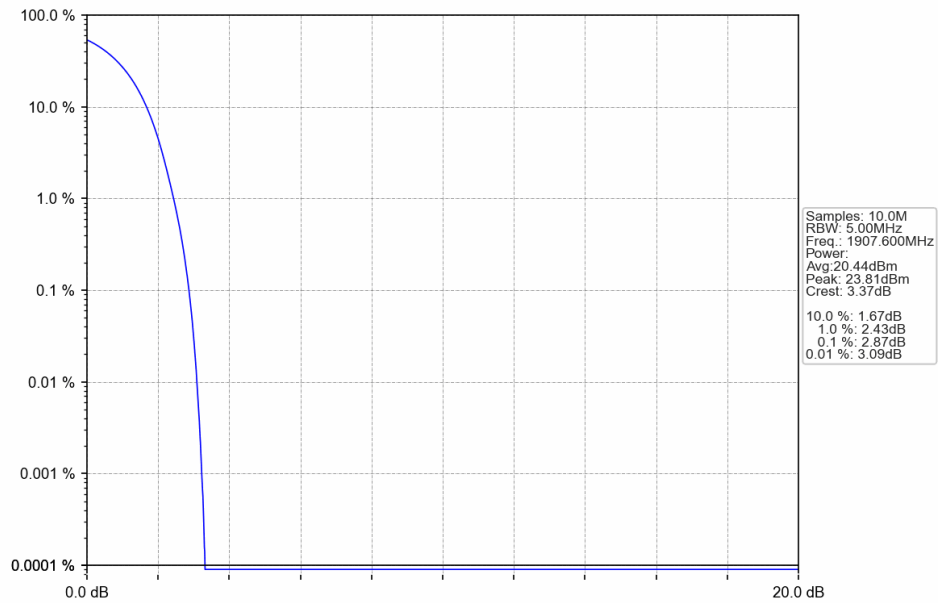
5.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.87	<=13	Pass
			1880	3.02	<=13	Pass
			1907.6	2.87	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.90	<=13	Pass
			1880	6.06	<=13	Pass
			1907.6	5.90	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.89	<=13	Pass
			1880	5.94	<=13	Pass
			1907.6	6.03	<=13	Pass

5.1.2 Test Graph

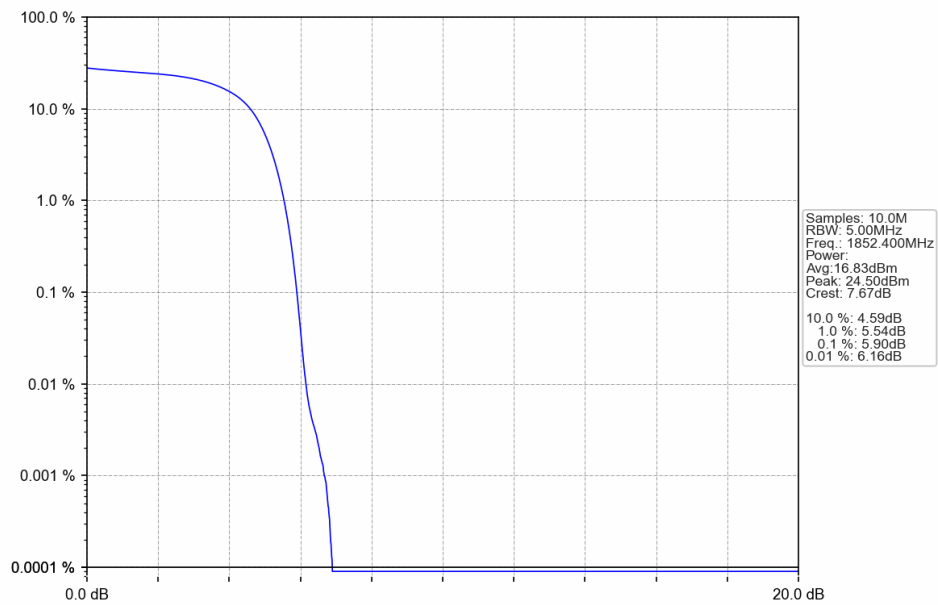


Band2 RMC HCH 1907.6MHz 12.2kbps RMC NTN



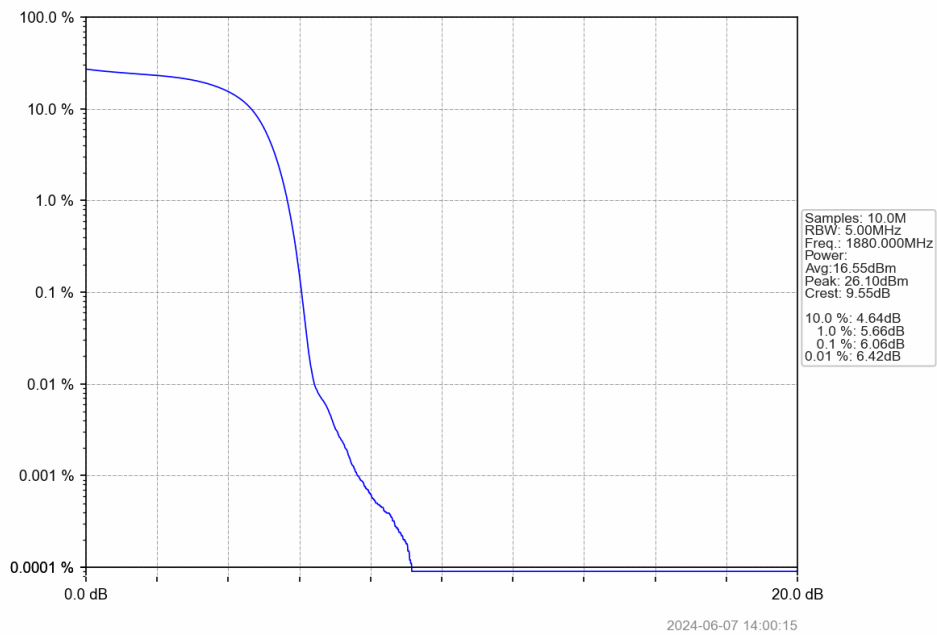
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Band2 HSDPA LCH 1852.4MHz Subtest 1 NTN

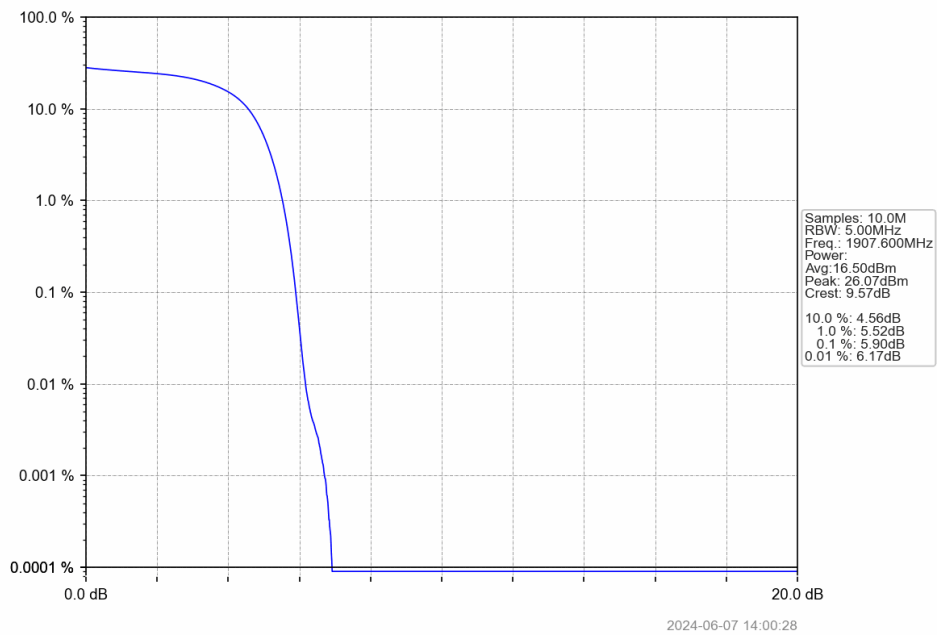


2024-06-07 14:00:00

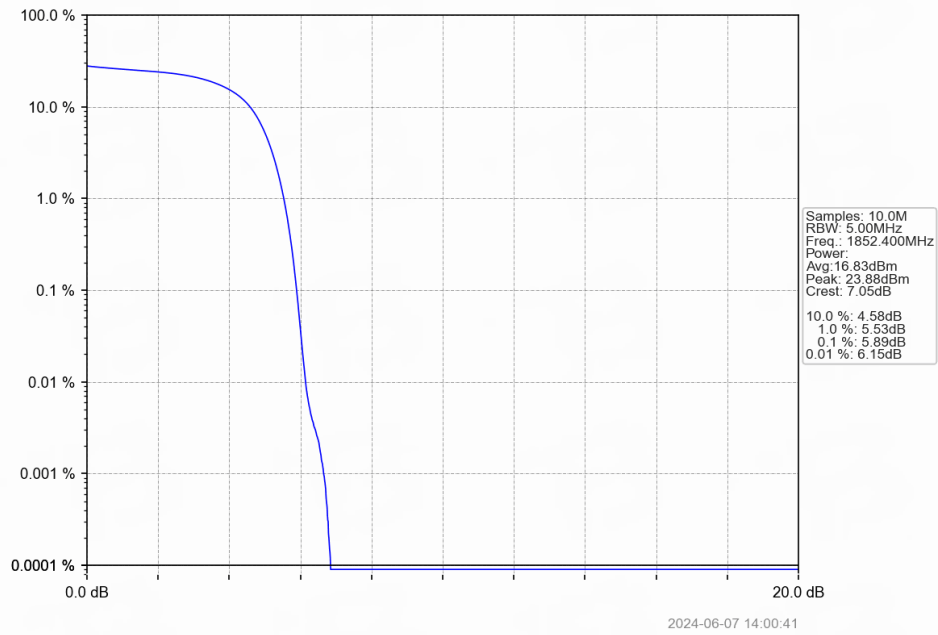
Band2 HSDPA MCH 1880MHz Subtest 1 NTN



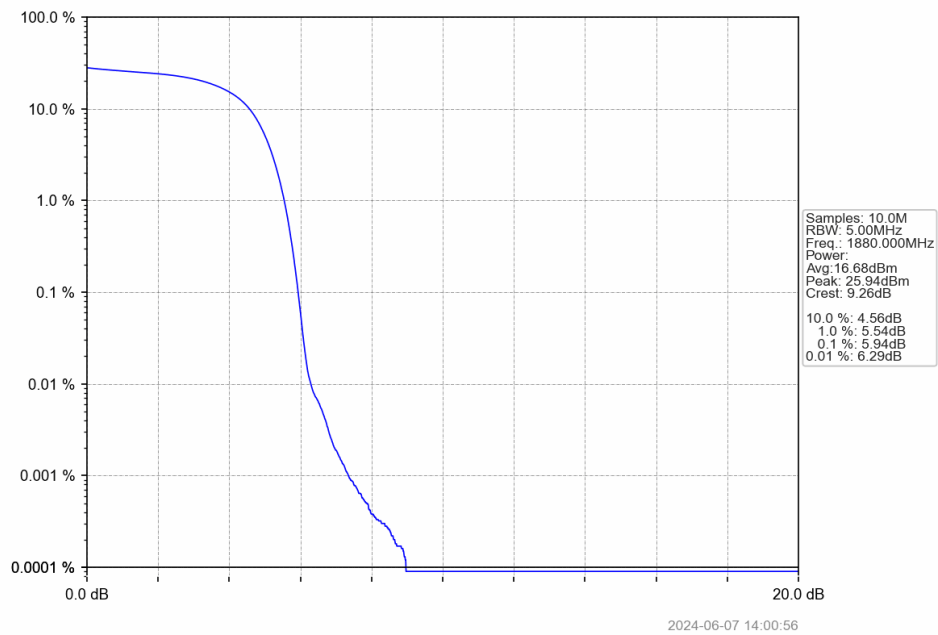
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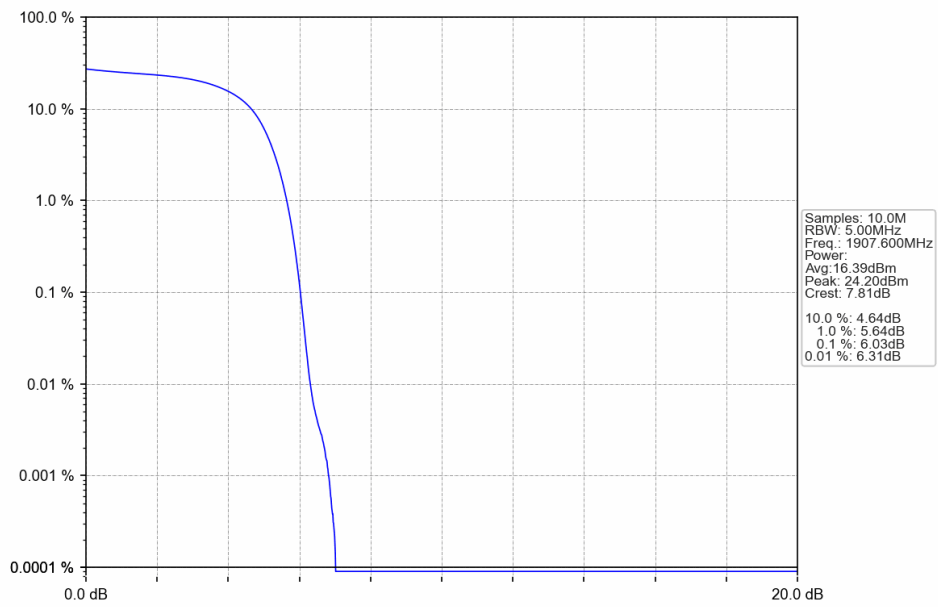
Band2 HSUPA LCH 1852.4MHz Subtest 1 NTN



Band2 HSUPA MCH 1880MHz Subtest 1 NTN



Band2 HSUPA HCH 1907.6MHz Subtest 1 NTNV



2024-06-07 14:01:09

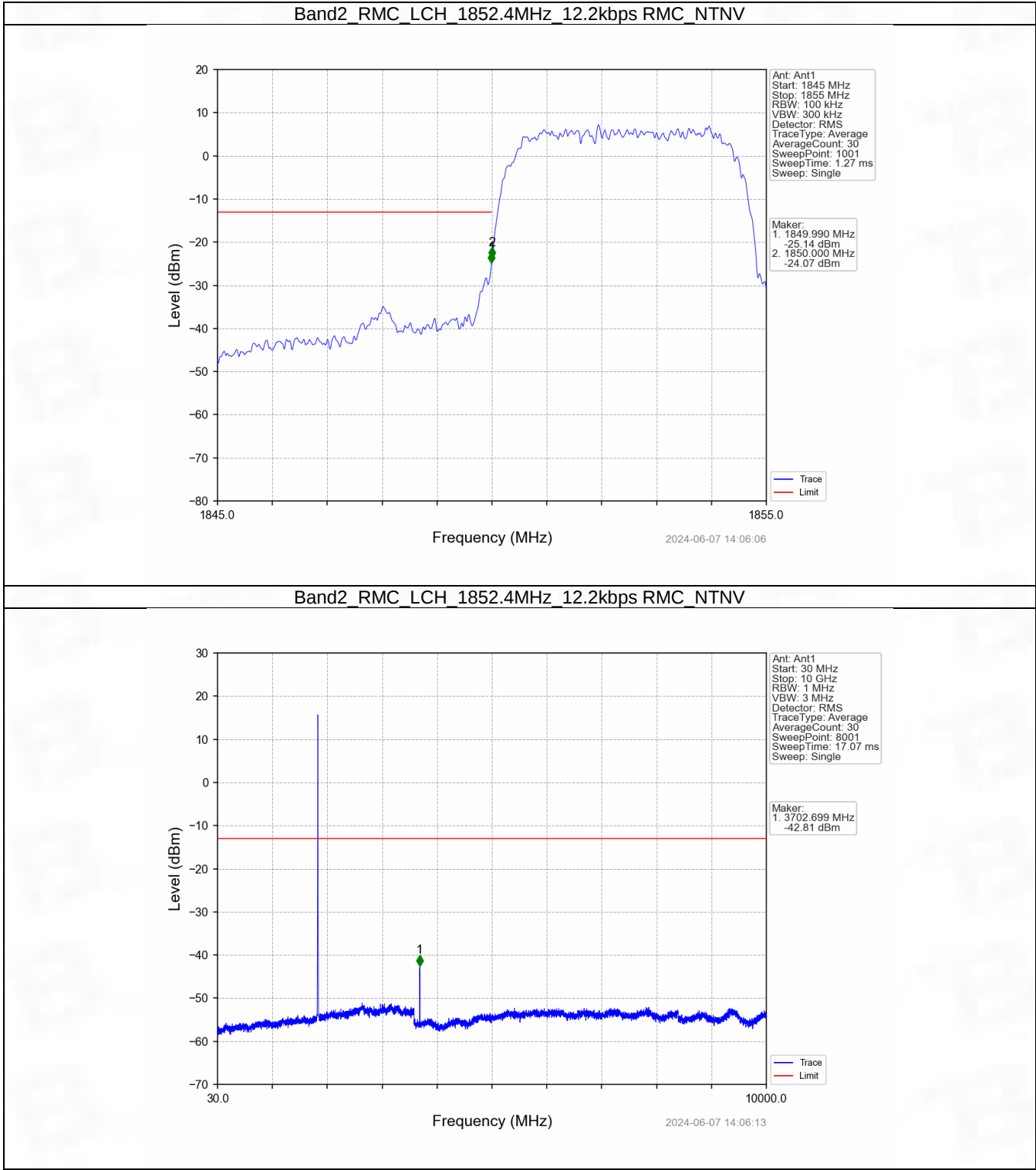
6. Spurious Emission

6.1 Band2

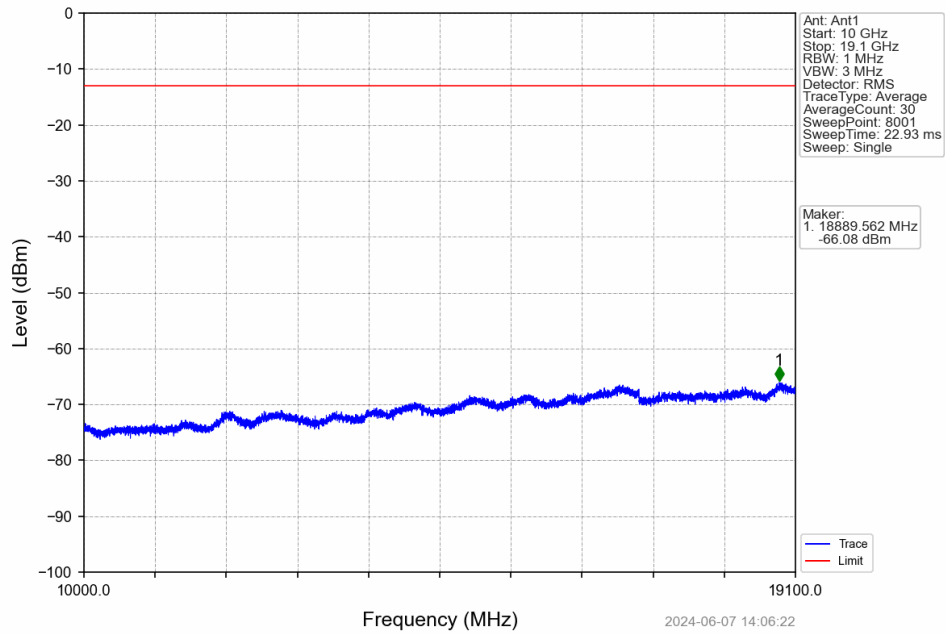
6.1.1 Test Result

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	

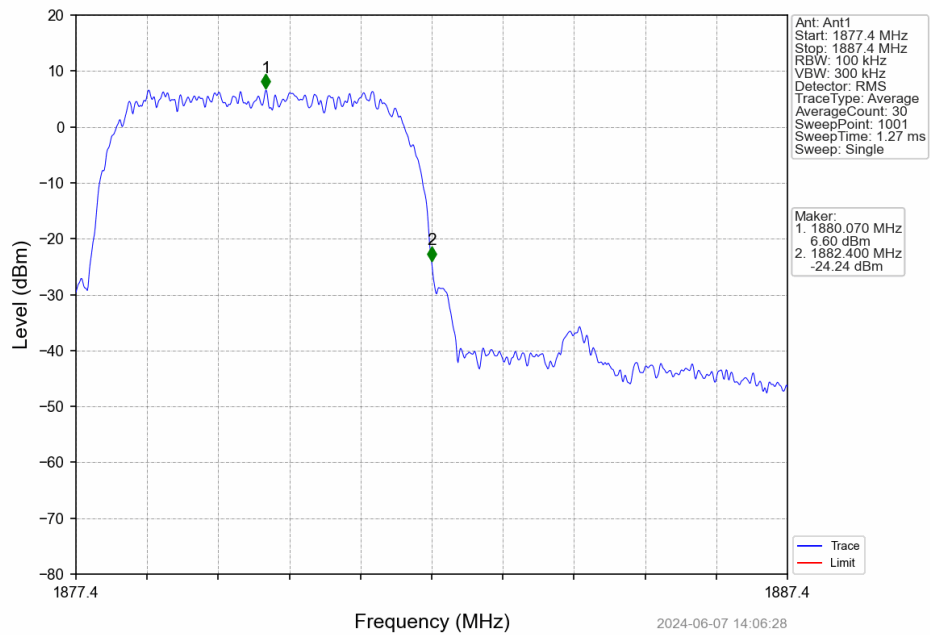
6.1.2 Test Graph



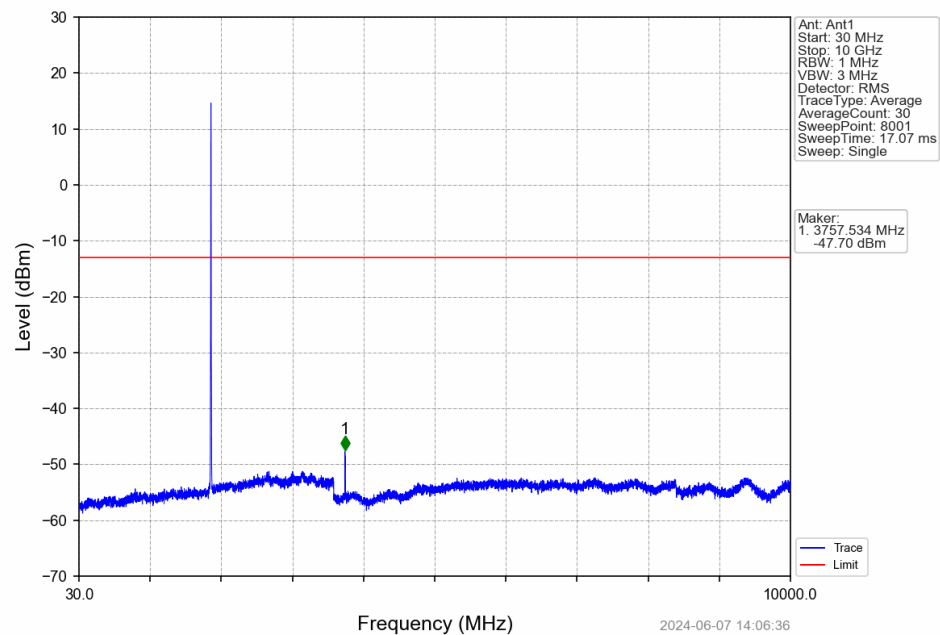
Band2_RMC_LCH_1852.4MHz_12.2kbps_RMC_NTNV



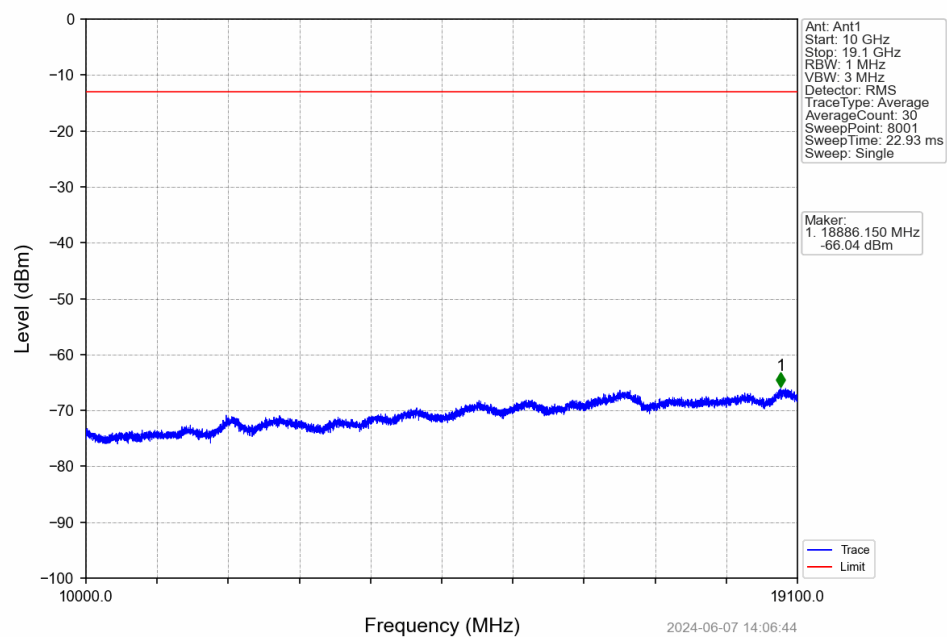
Band2_RMC_MCH_1880MHz_12.2kbps_RMC_NTNV



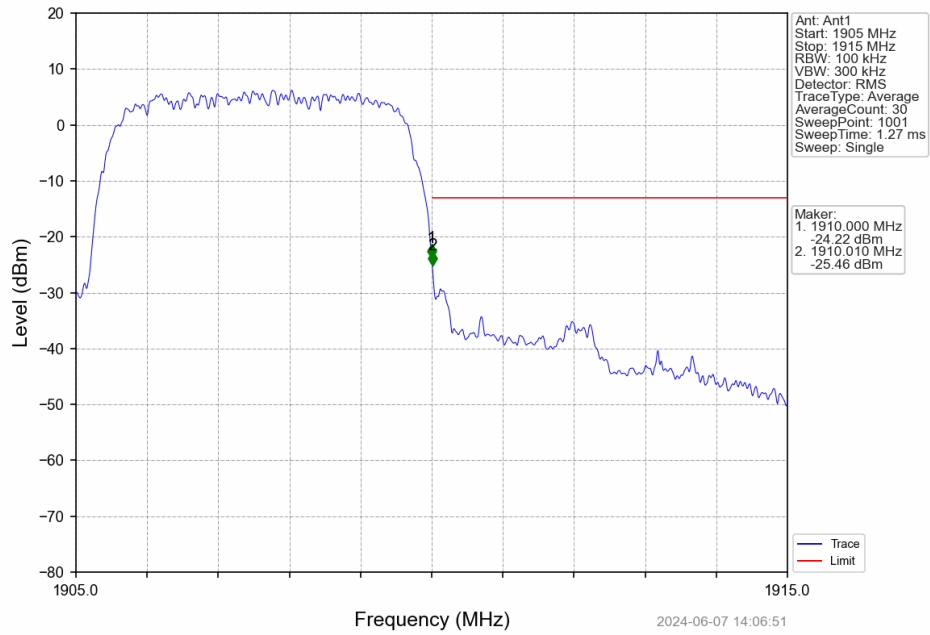
Band2_RMC_MCH_1880MHz_12.2kbps_RMC_NTNV



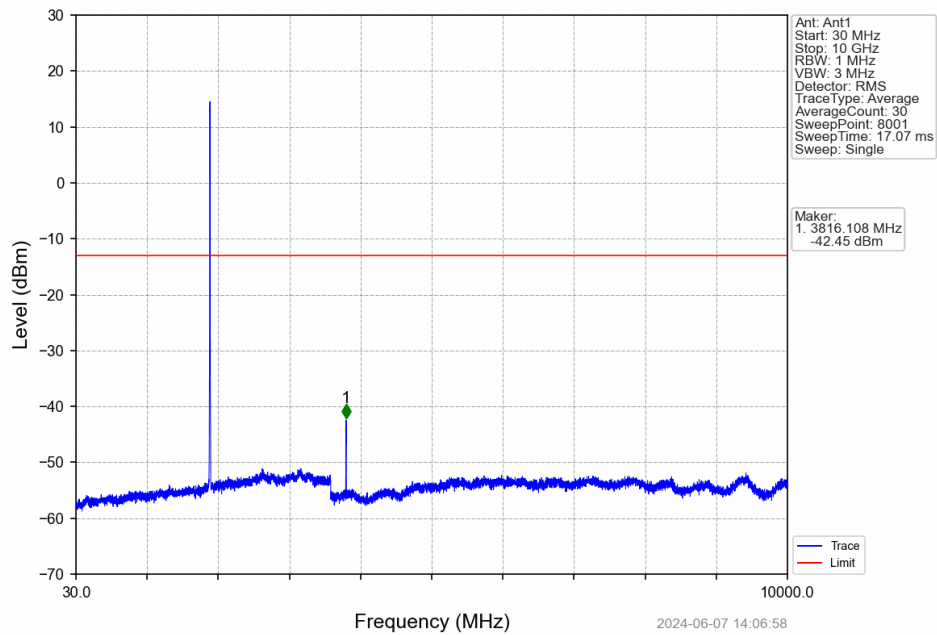
Band2_RMC_MCH_1880MHz_12.2kbps_RMC_NTNV



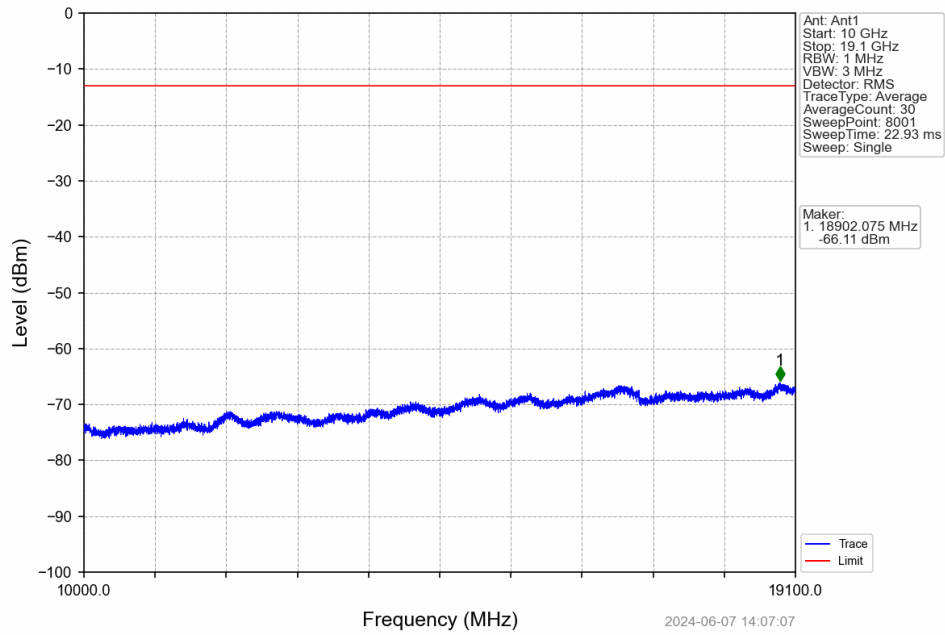
Band2 RMC HCH 1907.6MHz 12.2kbps RMC NTN



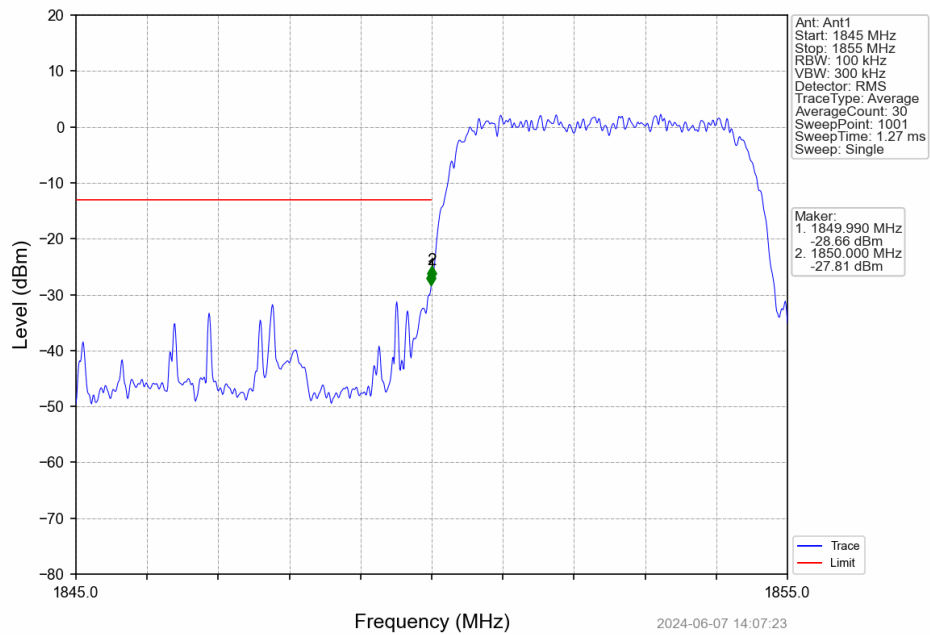
Band2 RMC HCH 1907.6MHz 12.2kbps RMC NTN



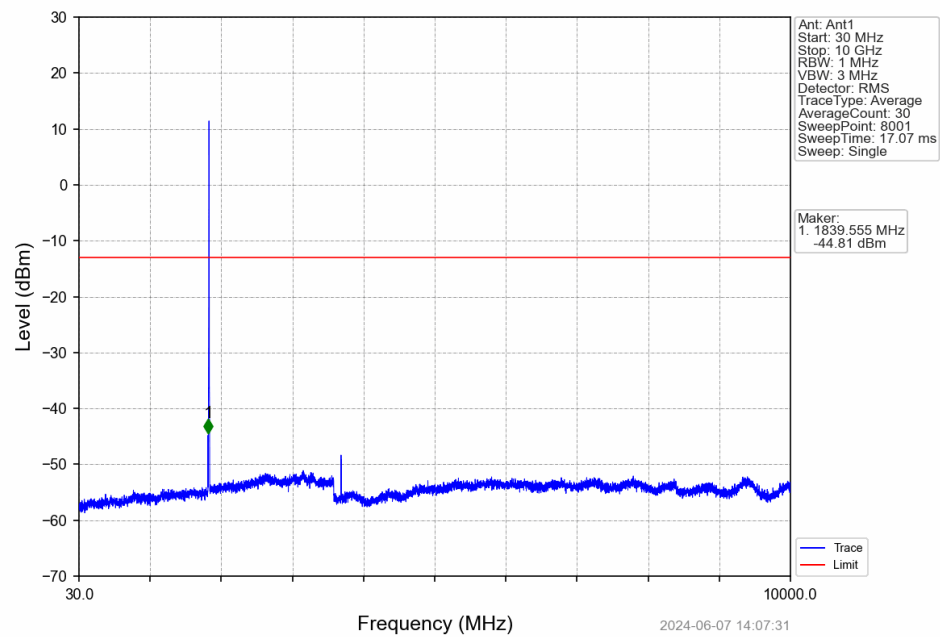
Band2 RMC HCH 1907.6MHz 12.2kbps RMC NTN



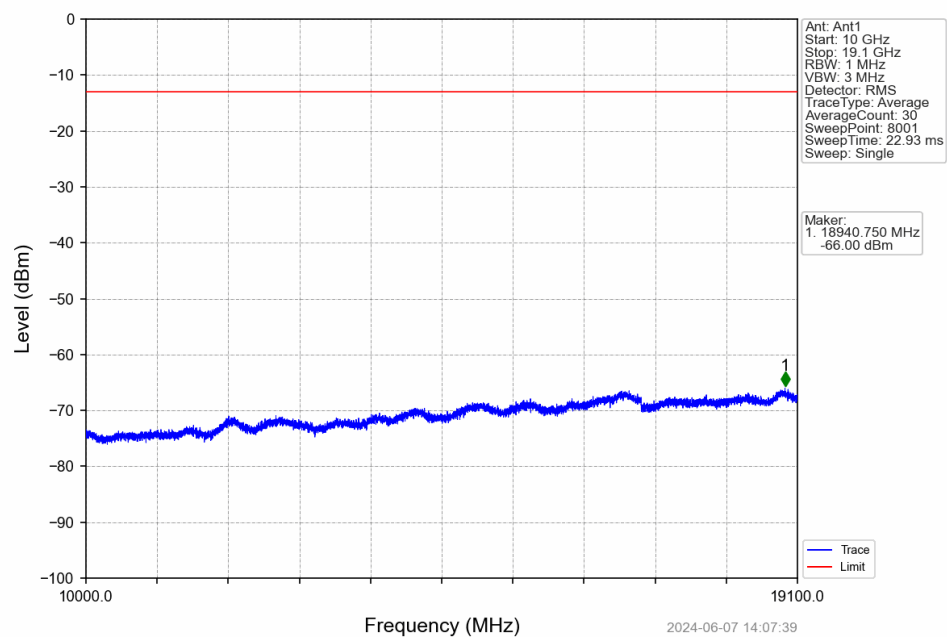
Band2 HSDPA LCH 1852.4MHz Subtest 1 NTN



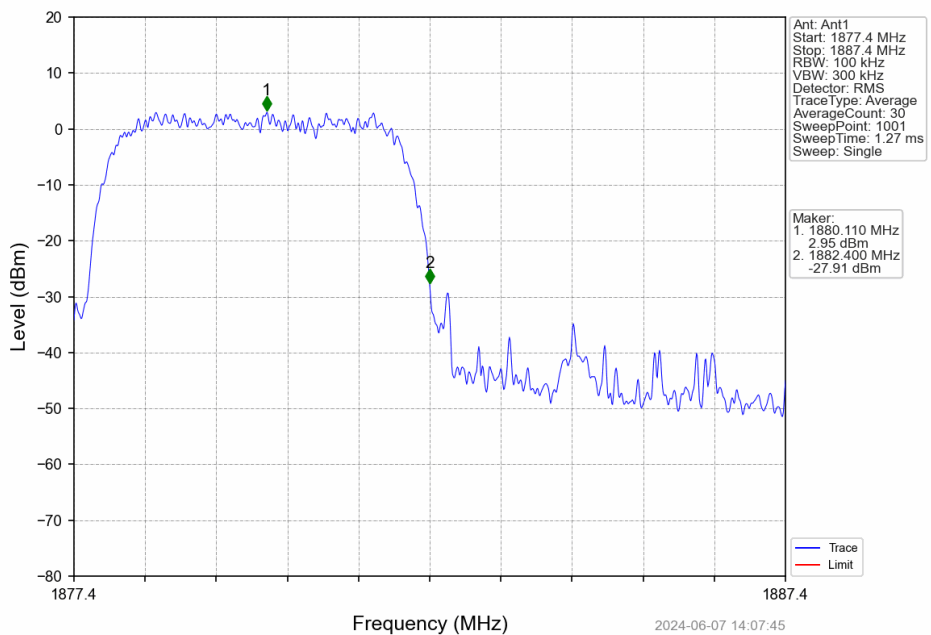
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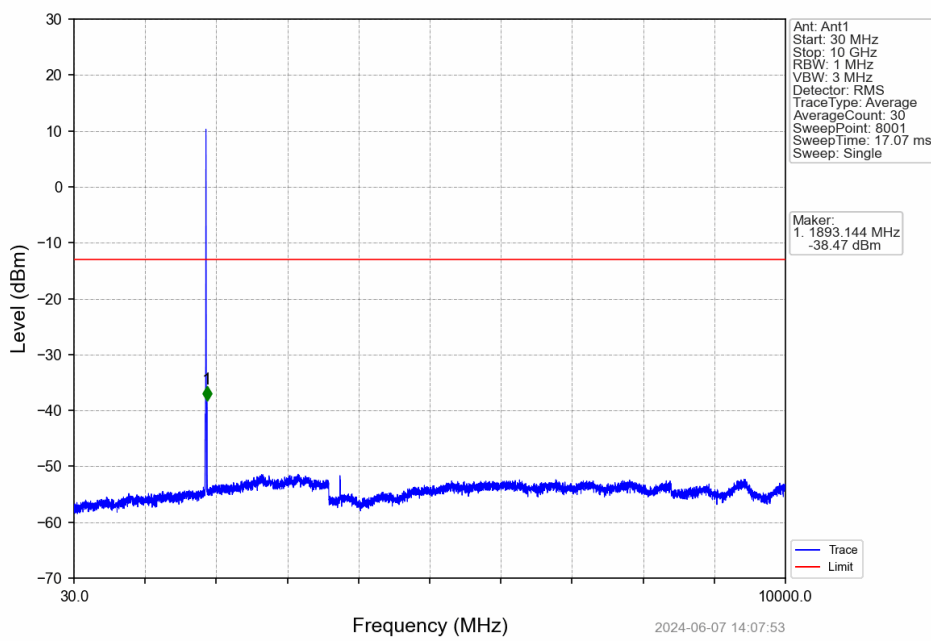
Band2 HSDPA LCH 1852.4MHz Subtest 1 NTN



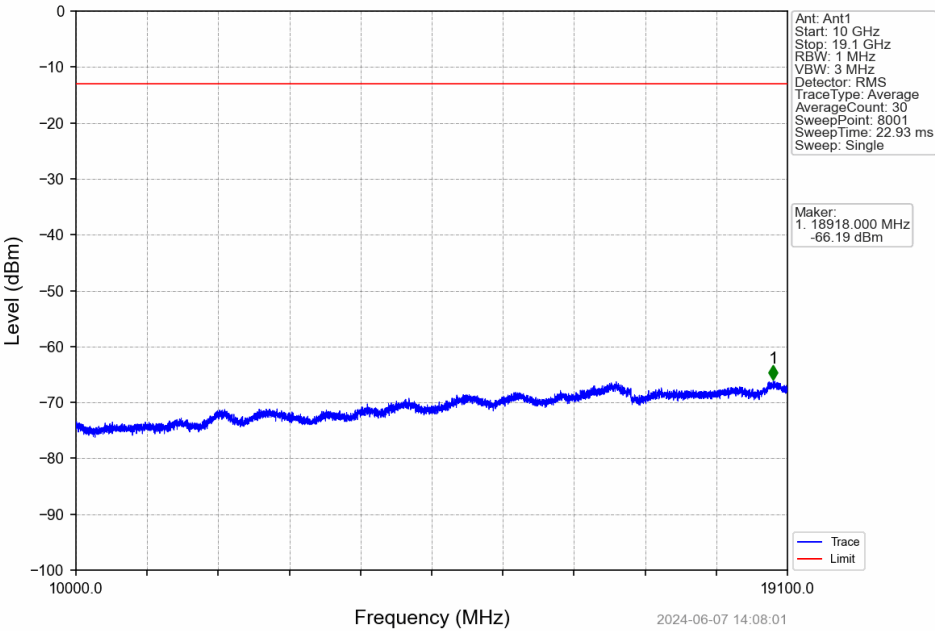
Band2 HSDPA MCH 1880MHz Subtest 1 NTN



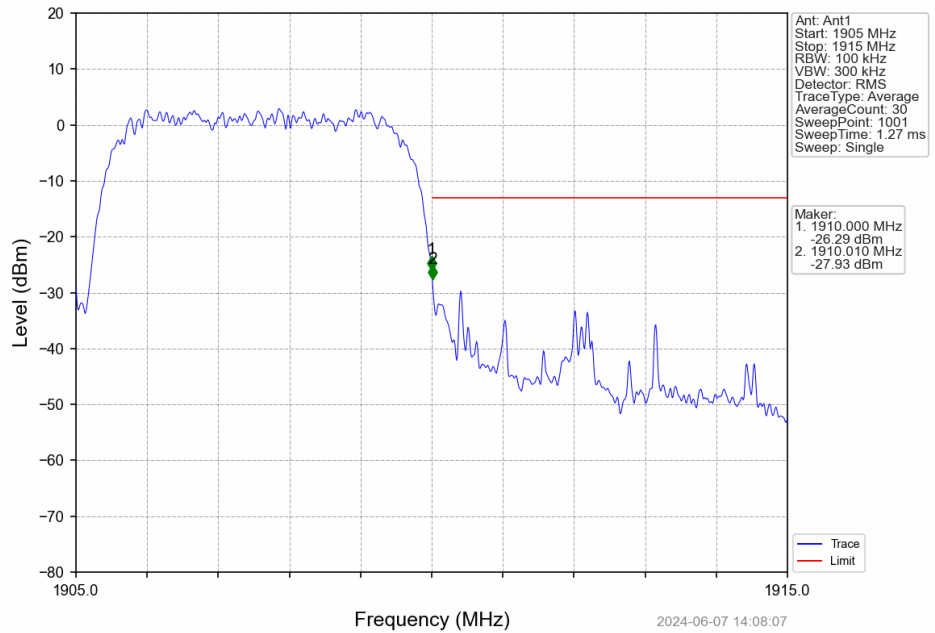
Band2 HSDPA MCH 1880MHz Subtest 1 NTN



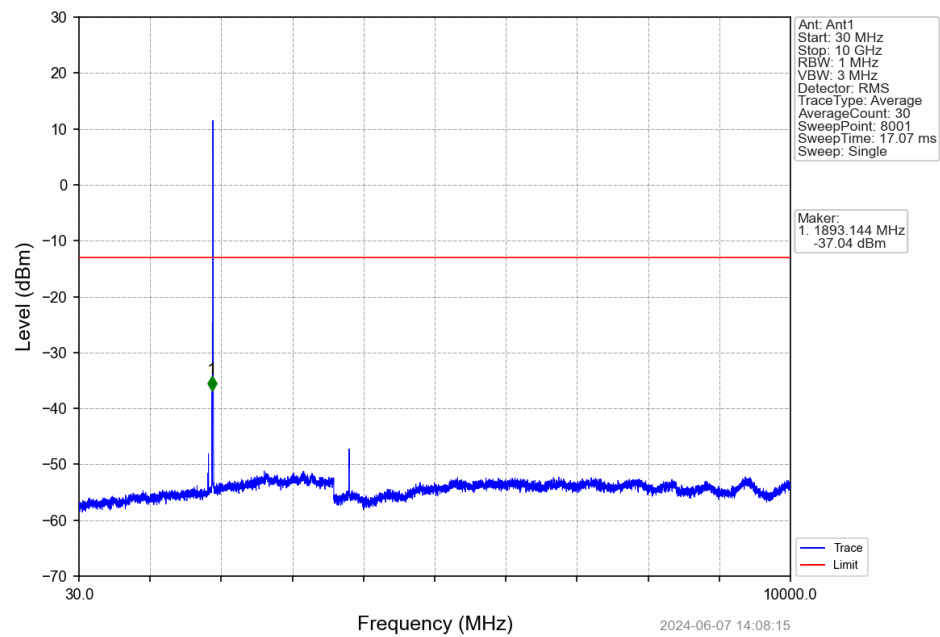
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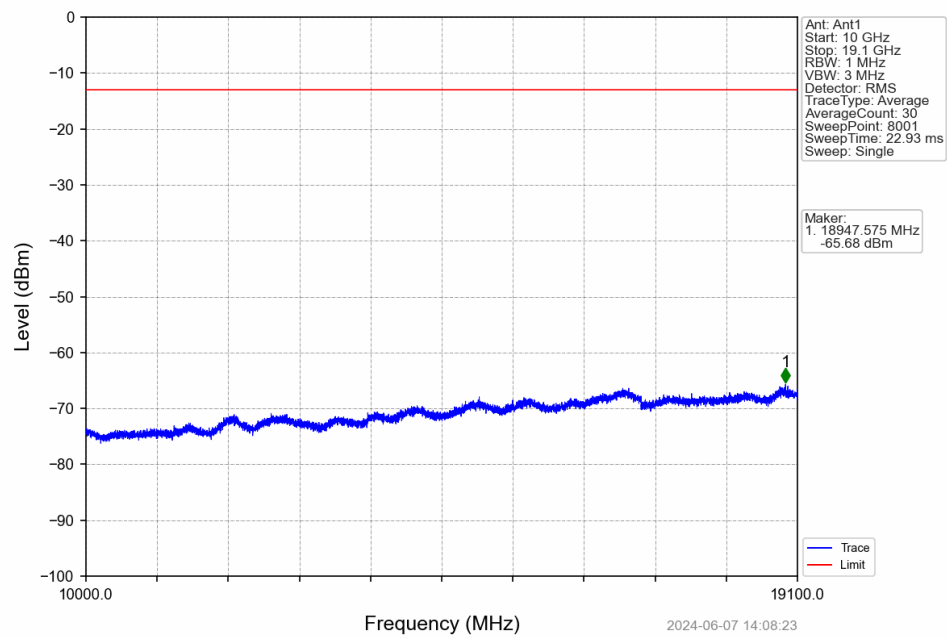
Band2 HSDPA HCH 1907.6MHz Subtest 1 NTN



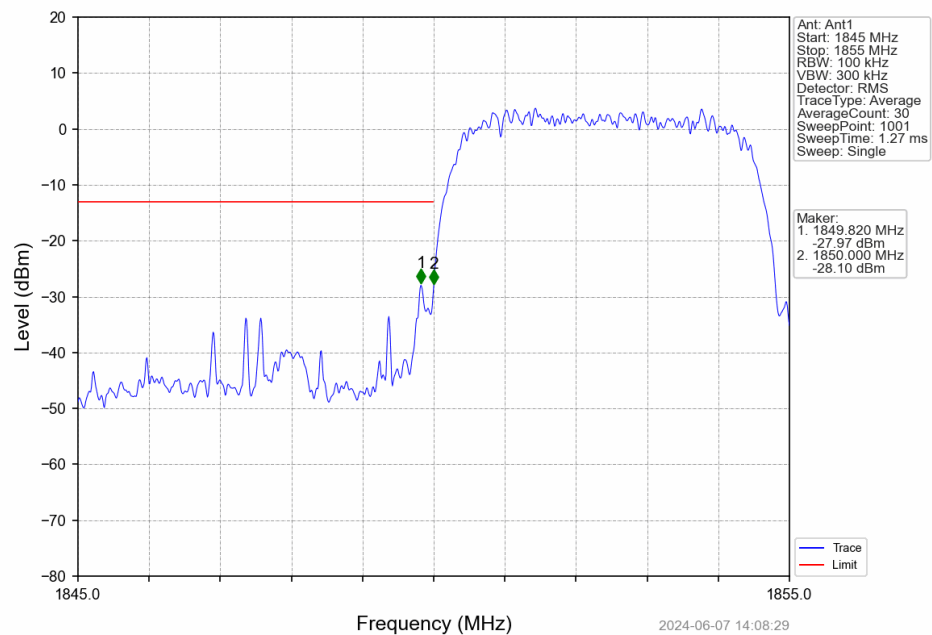
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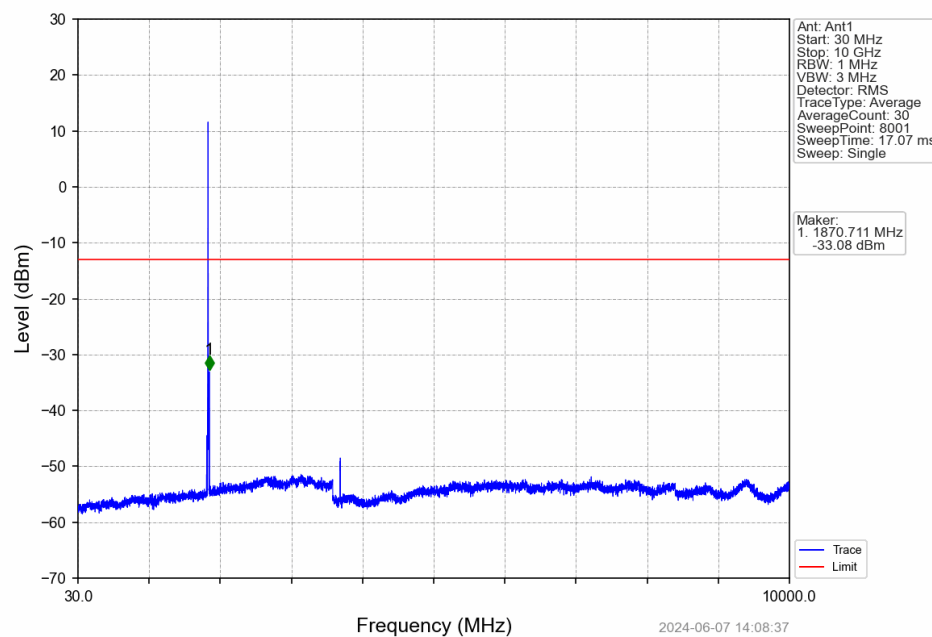
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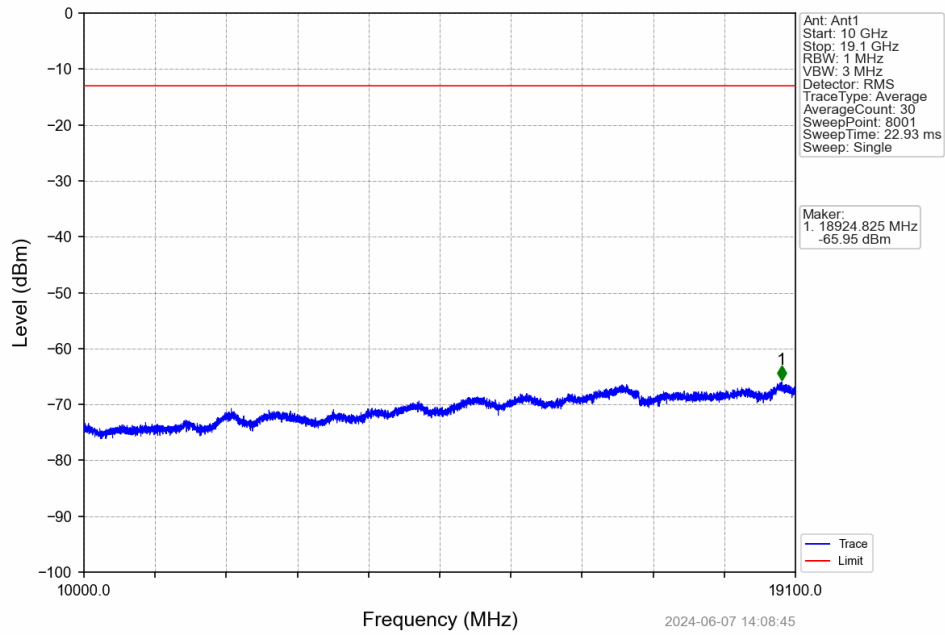
Band2 HSUPA LCH 1852.4MHz Subtest 1 NTNV



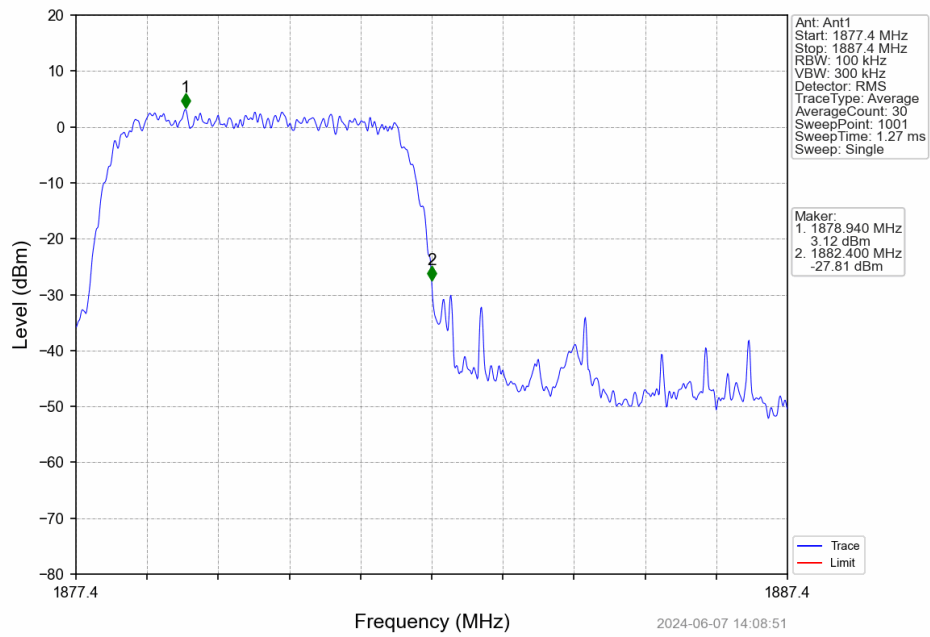
Band2 HSUPA LCH 1852.4MHz Subtest 1 NTNV



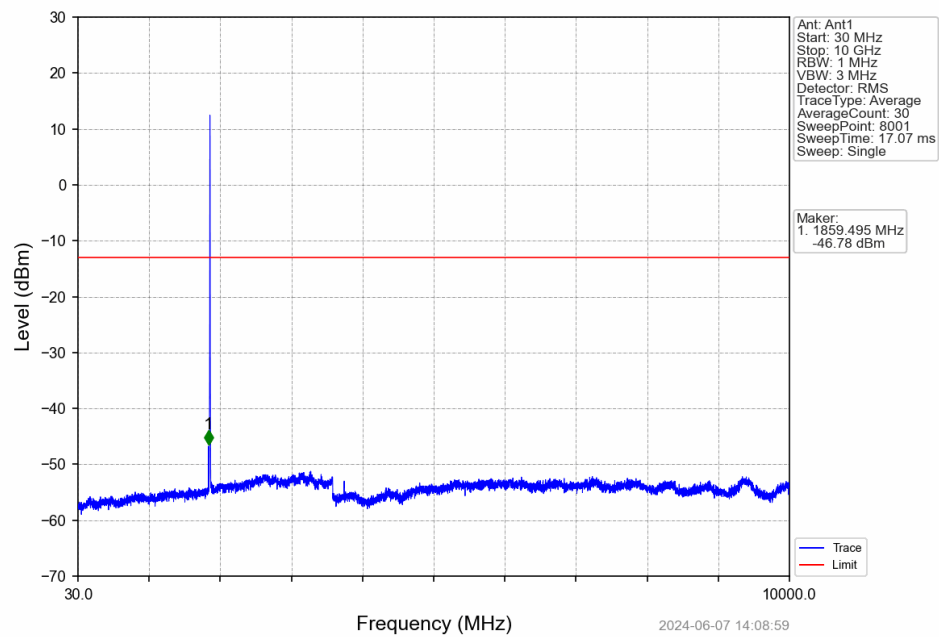
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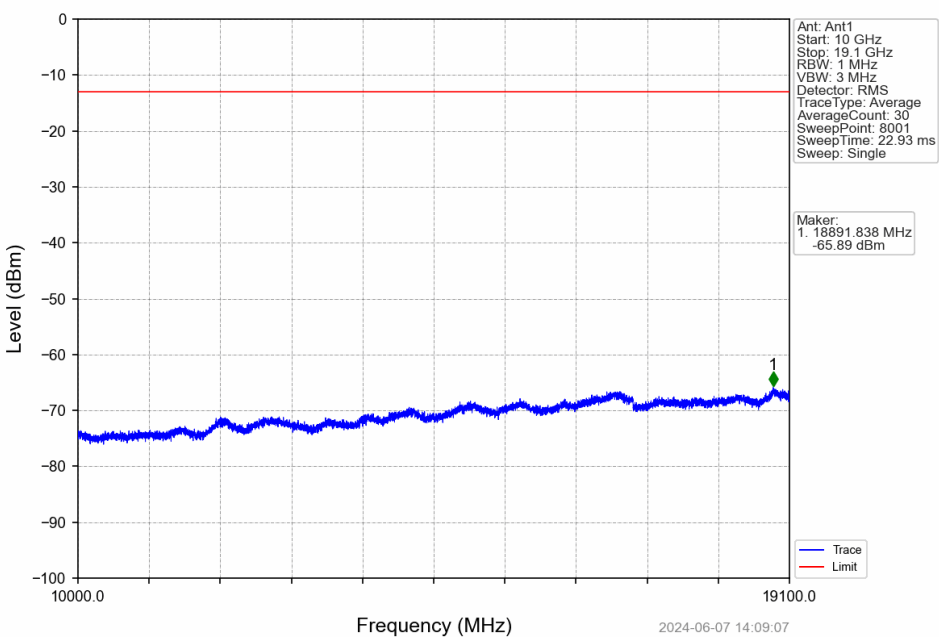
Band2 HSUPA MCH 1880MHz Subtest 1 NTNV



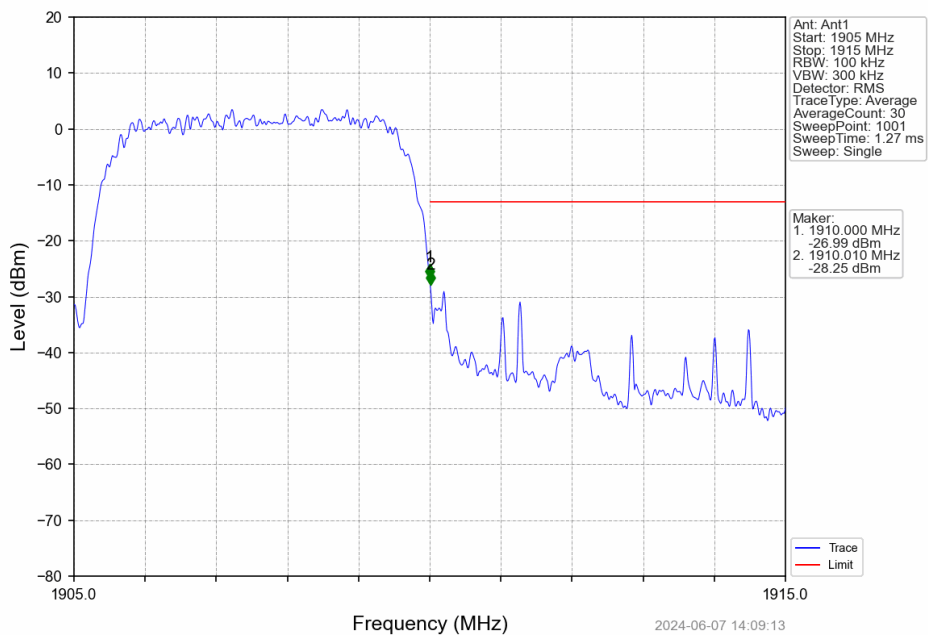
Band2 HSUPA MCH 1880MHz Subtest 1 NTN



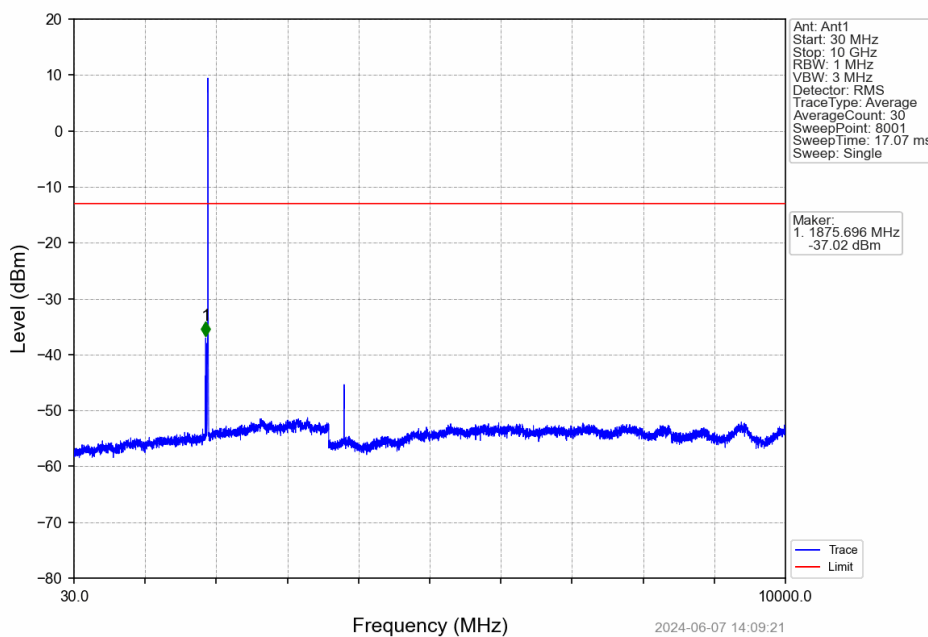
Band2 HSUPA MCH 1880MHz Subtest 1 NTN



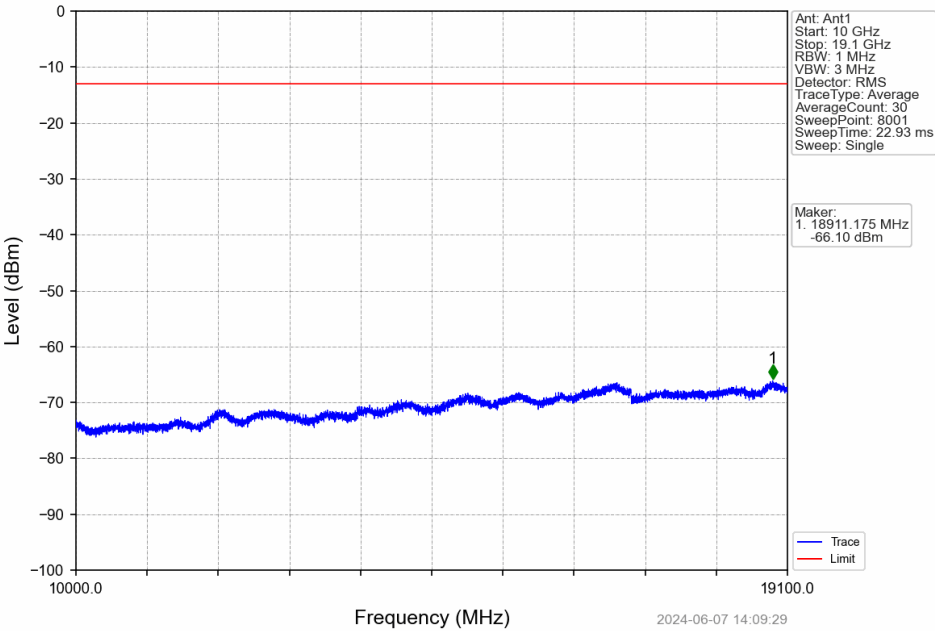
Band2 HSUPA HCH 1907.6MHz Subtest 1 NTV



Band2 HSUPA HCH 1907.6MHz Subtest 1 NTV



Band2 HSUPA HCH 1907.6MHz Subtest 1 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	0.1189	0.0106	ppm	4M28F9W	24E	20.75

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	0.1096	0.0106	ppm	4M28F9W	24E	20.40