

## 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	21.73	-0.94	20.79	<=33.01	Pass			
			1880	21.56	-0.94	20.62	<=33.01	Pass			
			1907.6	21.51	-0.94	20.57	<=33.01	Pass			
	HSDPA		Subtest 1	1852.4	20.73	-0.94	19.79	<=33.01	Pass		
			Subtest 2	1852.4	20.78	-0.94	19.84	<=33.01	Pass		
			Subtest 3	1852.4	20.83	-0.94	19.89	<=33.01	Pass		
			Subtest 4	1852.4	20.81	-0.94	19.87	<=33.01	Pass		
			Subtest 1	1880	20.77	-0.94	19.83	<=33.01	Pass		
			Subtest 2	1880	20.73	-0.94	19.79	<=33.01	Pass		
			Subtest 3	1880	20.77	-0.94	19.83	<=33.01	Pass		
			Subtest 4	1880	20.73	-0.94	19.79	<=33.01	Pass		
			Subtest 1	1907.6	20.82	-0.94	19.88	<=33.01	Pass		
			Subtest 2	1907.6	20.80	-0.94	19.86	<=33.01	Pass		
			Subtest 3	1907.6	20.80	-0.94	19.86	<=33.01	Pass		
			Subtest 4	1907.6	20.76	-0.94	19.82	<=33.01	Pass		
			HSUPA		Subtest 1	1852.4	18.84	-0.94	17.90	<=33.01	Pass
					Subtest 2	1852.4	18.64	-0.94	17.70	<=33.01	Pass
					Subtest 3	1852.4	18.81	-0.94	17.87	<=33.01	Pass
	Subtest 4	1852.4			18.80	-0.94	17.86	<=33.01	Pass		
	Subtest 5	1852.4			18.62	-0.94	17.68	<=33.01	Pass		
	Subtest 1	1880			18.72	-0.94	17.78	<=33.01	Pass		
	Subtest 2	1880			18.70	-0.94	17.76	<=33.01	Pass		
	Subtest 3	1880			18.23	-0.94	17.29	<=33.01	Pass		
	Subtest 4	1880			18.74	-0.94	17.80	<=33.01	Pass		
	Subtest 5	1880			18.71	-0.94	17.77	<=33.01	Pass		
	Subtest 1	1907.6			18.82	-0.94	17.88	<=33.01	Pass		
	Subtest 2	1907.6			18.65	-0.94	17.71	<=33.01	Pass		
	Subtest 3	1907.6			18.83	-0.94	17.89	<=33.01	Pass		
	Subtest 4	1907.6			18.82	-0.94	17.88	<=33.01	Pass		
	Subtest 5	1907.6			18.36	-0.94	17.42	<=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	-5.779	-0.0031	-2.5 to 2.5	Pass
			3.85	-7.267	-0.0039	-2.5 to 2.5	Pass
			4.43	-1.123	-0.0006	-2.5 to 2.5	Pass
		-30	3.85	-1.330	-0.0007	-2.5 to 2.5	Pass
		-20	3.85	1.137	0.0006	-2.5 to 2.5	Pass

		-10	3.85	2.832	0.0015	-2.5 to 2.5	Pass		
		0	3.85	-7.617	-0.0041	-2.5 to 2.5	Pass		
		10	3.85	-4.585	-0.0025	-2.5 to 2.5	Pass		
		30	3.85	8.633	0.0047	-2.5 to 2.5	Pass		
		40	3.85	-2.482	-0.0013	-2.5 to 2.5	Pass		
	1880	50	3.85	-2.081	-0.0011	-2.5 to 2.5	Pass		
			20	3.27	13.962	0.0074	-2.5 to 2.5	Pass	
			3.85	0.150	0.0001	-2.5 to 2.5	Pass		
		4.43	2.496	0.0013	-2.5 to 2.5	Pass			
		-30	3.85	1.416	0.0008	-2.5 to 2.5	Pass		
		-20	3.85	-10.035	-0.0053	-2.5 to 2.5	Pass		
		-10	3.85	3.412	0.0018	-2.5 to 2.5	Pass		
		0	3.85	5.736	0.0031	-2.5 to 2.5	Pass		
		10	3.85	6.766	0.0036	-2.5 to 2.5	Pass		
		30	3.85	2.003	0.0011	-2.5 to 2.5	Pass		
		40	3.85	-4.742	-0.0025	-2.5 to 2.5	Pass		
		50	3.85	-4.778	-0.0025	-2.5 to 2.5	Pass		
		1907.6	20	3.27	-3.884	-0.0020	-2.5 to 2.5	Pass	
				3.85	-5.901	-0.0031	-2.5 to 2.5	Pass	
				4.43	9.298	0.0049	-2.5 to 2.5	Pass	
	-30		3.85	-1.945	-0.0010	-2.5 to 2.5	Pass		
	-20		3.85	-0.658	-0.0003	-2.5 to 2.5	Pass		
	-10		3.85	-0.243	-0.0001	-2.5 to 2.5	Pass		
	0		3.85	12.939	0.0068	-2.5 to 2.5	Pass		
	10		3.85	2.117	0.0011	-2.5 to 2.5	Pass		
	30		3.85	1.981	0.0010	-2.5 to 2.5	Pass		
	40		3.85	2.246	0.0012	-2.5 to 2.5	Pass		
	50		3.85	2.217	0.0012	-2.5 to 2.5	Pass		
	HSDPA		1852.4	20	3.27	6.773	0.0037	-2.5 to 2.5	Pass
					3.85	15.392	0.0083	-2.5 to 2.5	Pass
4.43					13.139	0.0071	-2.5 to 2.5	Pass	
-30				3.85	12.016	0.0065	-2.5 to 2.5	Pass	
-20		3.85		11.616	0.0063	-2.5 to 2.5	Pass		
-10		3.85		11.537	0.0062	-2.5 to 2.5	Pass		
0		3.85		11.680	0.0063	-2.5 to 2.5	Pass		
10		3.85		19.755	0.0107	-2.5 to 2.5	Pass		
30		3.85		21.086	0.0114	-2.5 to 2.5	Pass		
40		3.85		20.177	0.0109	-2.5 to 2.5	Pass		
50		3.85		11.773	0.0064	-2.5 to 2.5	Pass		
1880		20		3.27	4.570	0.0024	-2.5 to 2.5	Pass	
				3.85	8.476	0.0045	-2.5 to 2.5	Pass	
				4.43	13.690	0.0073	-2.5 to 2.5	Pass	
		-30		3.85	16.036	0.0085	-2.5 to 2.5	Pass	
		-20	3.85	12.481	0.0066	-2.5 to 2.5	Pass		
		-10	3.85	15.450	0.0082	-2.5 to 2.5	Pass		
		0	3.85	16.215	0.0086	-2.5 to 2.5	Pass		
		10	3.85	15.328	0.0082	-2.5 to 2.5	Pass		
		30	3.85	15.006	0.0080	-2.5 to 2.5	Pass		
		40	3.85	15.893	0.0085	-2.5 to 2.5	Pass		
		50	3.85	11.659	0.0062	-2.5 to 2.5	Pass		
		1907.6	20	3.27	12.367	0.0065	-2.5 to 2.5	Pass	
				3.85	10.757	0.0056	-2.5 to 2.5	Pass	
				4.43	10.993	0.0058	-2.5 to 2.5	Pass	
			-30	3.85	12.431	0.0065	-2.5 to 2.5	Pass	
-20			3.85	11.923	0.0063	-2.5 to 2.5	Pass		
-10			3.85	13.461	0.0071	-2.5 to 2.5	Pass		
0			3.85	13.304	0.0070	-2.5 to 2.5	Pass		
10			3.85	11.795	0.0062	-2.5 to 2.5	Pass		
30	3.85		11.616	0.0061	-2.5 to 2.5	Pass			

		40	3.85	11.652	0.0061	-2.5 to 2.5	Pass
		50	3.85	11.745	0.0062	-2.5 to 2.5	Pass
HSUPA	1852.4	20	3.27	-20.657	-0.0112	-2.5 to 2.5	Pass
			3.85	-22.559	-0.0122	-2.5 to 2.5	Pass
			4.43	-15.972	-0.0086	-2.5 to 2.5	Pass
		-30	3.85	-11.330	-0.0061	-2.5 to 2.5	Pass
		-20	3.85	-10.629	-0.0057	-2.5 to 2.5	Pass
		-10	3.85	-12.724	-0.0069	-2.5 to 2.5	Pass
		0	3.85	-11.058	-0.0060	-2.5 to 2.5	Pass
		10	3.85	-12.424	-0.0067	-2.5 to 2.5	Pass
		30	3.85	-18.597	-0.0100	-2.5 to 2.5	Pass
		40	3.85	-12.417	-0.0067	-2.5 to 2.5	Pass
		50	3.85	-1.624	-0.0009	-2.5 to 2.5	Pass
	1880	20	3.27	-9.692	-0.0052	-2.5 to 2.5	Pass
			3.85	-12.925	-0.0069	-2.5 to 2.5	Pass
			4.43	-17.016	-0.0091	-2.5 to 2.5	Pass
		-30	3.85	-13.168	-0.0070	-2.5 to 2.5	Pass
		-20	3.85	-12.345	-0.0066	-2.5 to 2.5	Pass
		-10	3.85	-3.419	-0.0018	-2.5 to 2.5	Pass
		0	3.85	-4.950	-0.0026	-2.5 to 2.5	Pass
		10	3.85	-7.796	-0.0041	-2.5 to 2.5	Pass
		30	3.85	-1.016	-0.0005	-2.5 to 2.5	Pass
		40	3.85	-7.253	-0.0039	-2.5 to 2.5	Pass
		50	3.85	-12.310	-0.0065	-2.5 to 2.5	Pass
	1907.6	20	3.27	-13.940	-0.0073	-2.5 to 2.5	Pass
			3.85	-12.631	-0.0066	-2.5 to 2.5	Pass
			4.43	-12.295	-0.0064	-2.5 to 2.5	Pass
		-30	3.85	-12.002	-0.0063	-2.5 to 2.5	Pass
		-20	3.85	-13.382	-0.0070	-2.5 to 2.5	Pass
		-10	3.85	-2.611	-0.0014	-2.5 to 2.5	Pass
		0	3.85	0.165	0.0001	-2.5 to 2.5	Pass
		10	3.85	0.751	0.0004	-2.5 to 2.5	Pass
		30	3.85	-6.888	-0.0036	-2.5 to 2.5	Pass
		40	3.85	-6.967	-0.0037	-2.5 to 2.5	Pass
		50	3.85	-13.032	-0.0068	-2.5 to 2.5	Pass

### 3. Modulation Characteristics

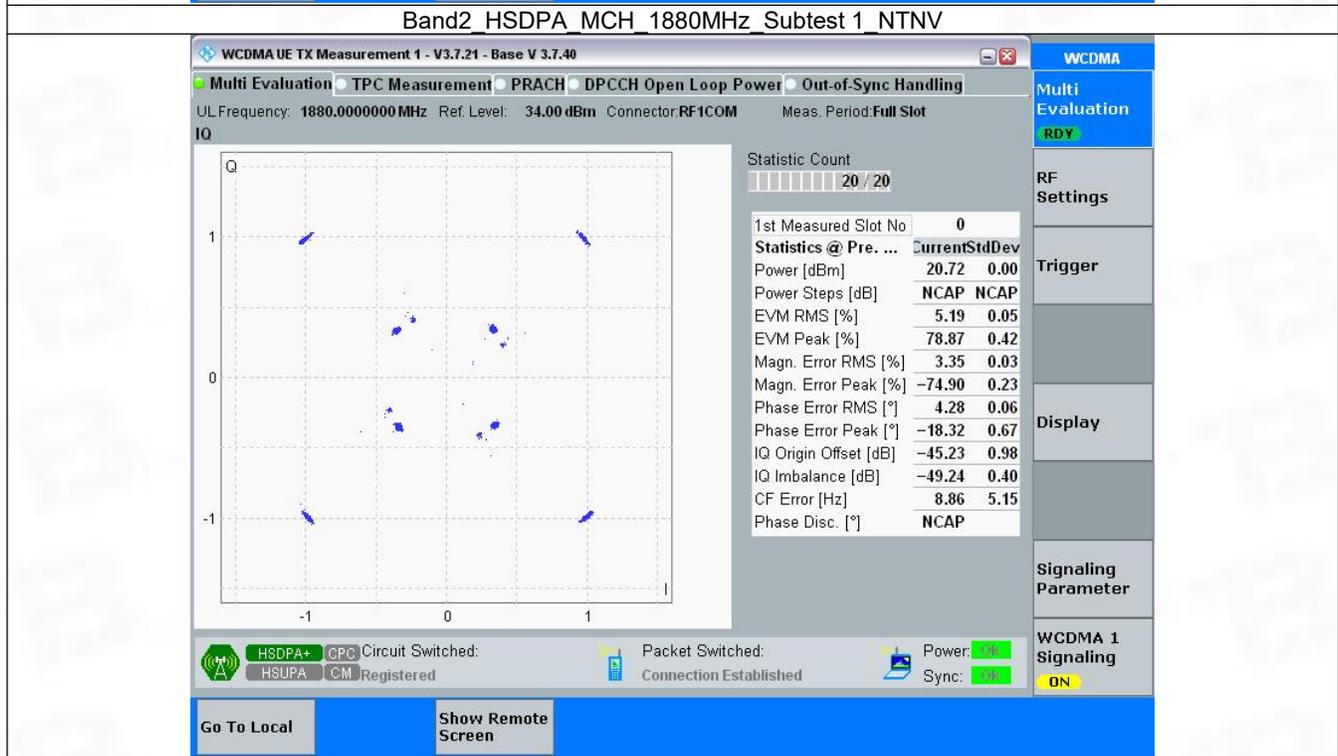
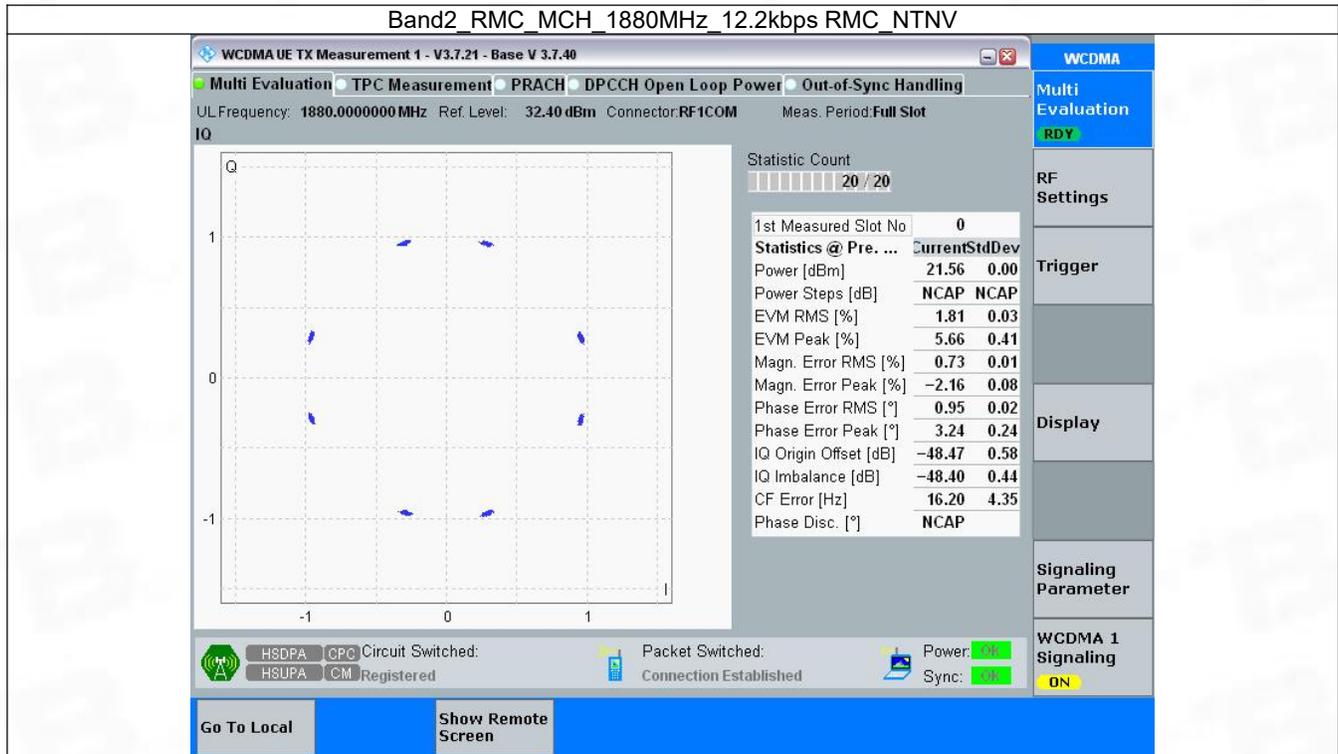
#### 3.1 Test Result

##### 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\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV

WCDMA UE TX Measurement 1 - V3.7.21 - Base V 3.7.40

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

WCDMA

Multi Evaluation

RDY

---

RF Settings

---

Trigger

---

Display

---

Signaling Parameter

---

WCDMA 1 Signaling

ON

Statistic Count

██████████ 20 / 20

1st Measured Slot No	0
<b>Statistics @ Pre. ...</b>	<b>CurrentStdDev</b>
Power [dBm]	20.72    2.41
Power Steps [dB]	NCAP    NCAP
EVM RMS [%]	5.16    3.08
EVM Peak [%]	79.30    40.15
Magn. Error RMS [%]	3.40    1.79
Magn. Error Peak [%]	-74.98    40.70
Phase Error RMS [°]	4.21    1.78
Phase Error Peak [°]	-18.49    6.14
IQ Origin Offset [dB]	-45.13    2.29
IQ Imbalance [dB]	-48.18    1.22
CF Error [Hz]	11.86    32.02
Phase Disc. [°]	NCAP

HSDPA+     CPC    Circuit Switched:

HSUPA     CM    Registered

Packet Switched:

Connection Established

Power: 3%

Sync: 3%

Go To Local

Show Remote Screen

## 4. 99% & 26dB Bandwidth

### 4.1 Test Result

#### 4.1.1 Band2\_OBW

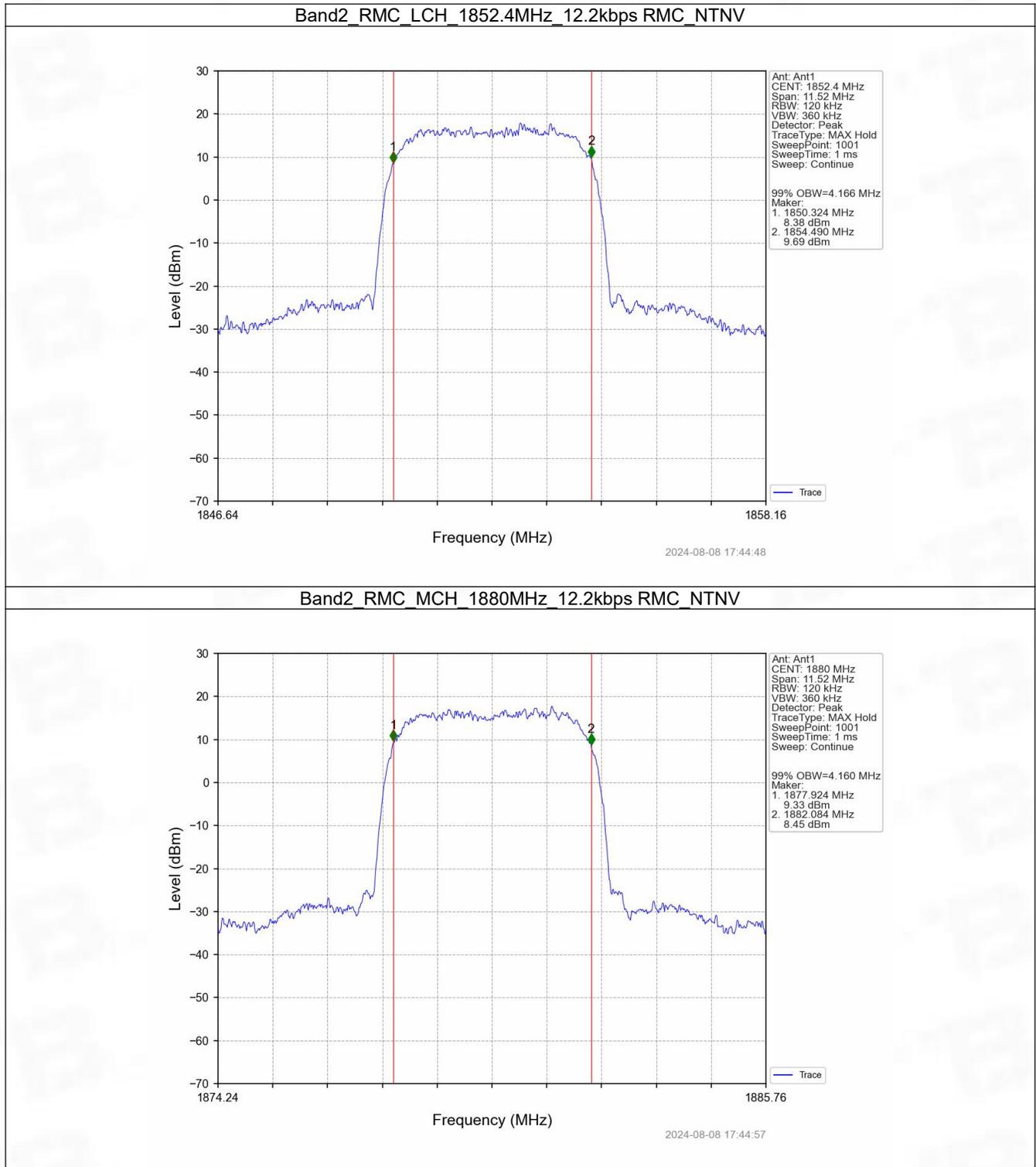
Band: 2						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.166	/	Pass
			1880	4.160	/	Pass
			1907.6	4.158	/	Pass
	HSDPA	Subtest 1	1852.4	4.153	/	Pass
			1880	4.147	/	Pass
			1907.6	4.152	/	Pass
	HSUPA	Subtest 1	1852.4	4.154	/	Pass
			1880	4.158	/	Pass
			1907.6	4.157	/	Pass

#### 4.1.2 Band2\_XDB

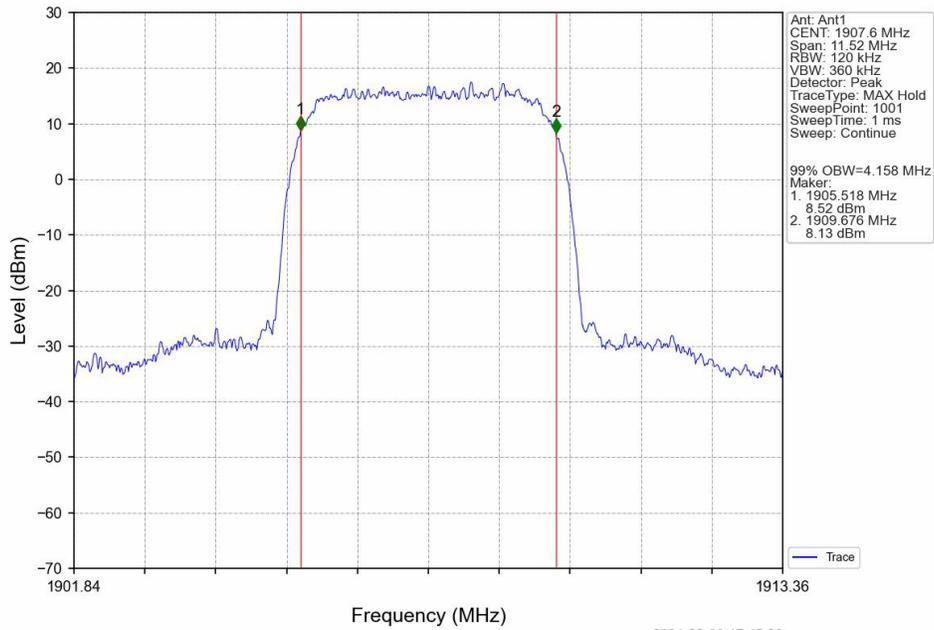
Band: 2						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.734	/	Pass
			1880	4.712	/	Pass
			1907.6	4.718	/	Pass
	HSDPA	Subtest 1	1852.4	4.717	/	Pass
			1880	4.715	/	Pass
			1907.6	4.714	/	Pass
	HSUPA	Subtest 1	1852.4	4.704	/	Pass
			1880	4.701	/	Pass
			1907.6	4.696	/	Pass

## 4.2 Test Graph

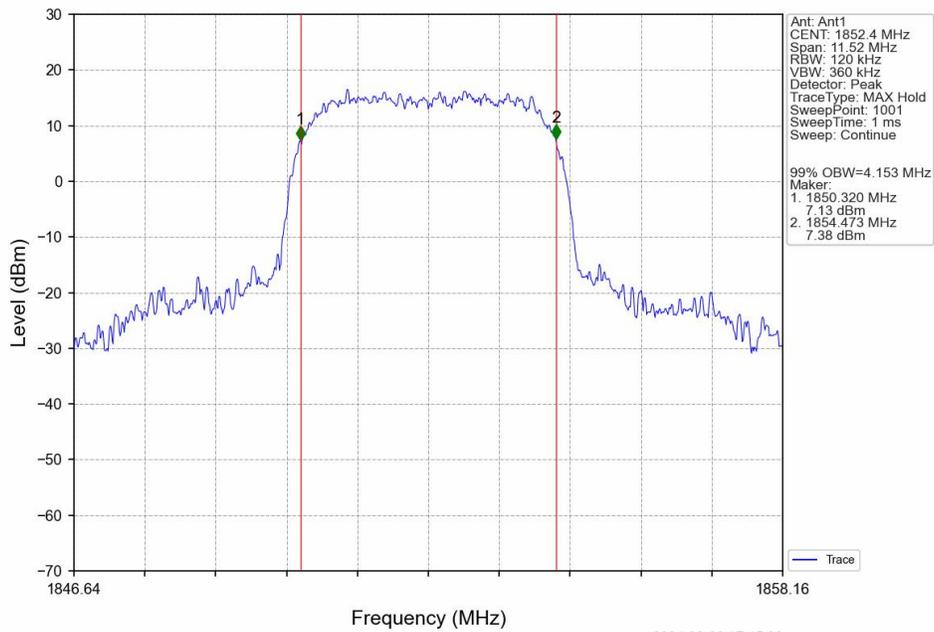
### 4.2.1 Band2\_OBW



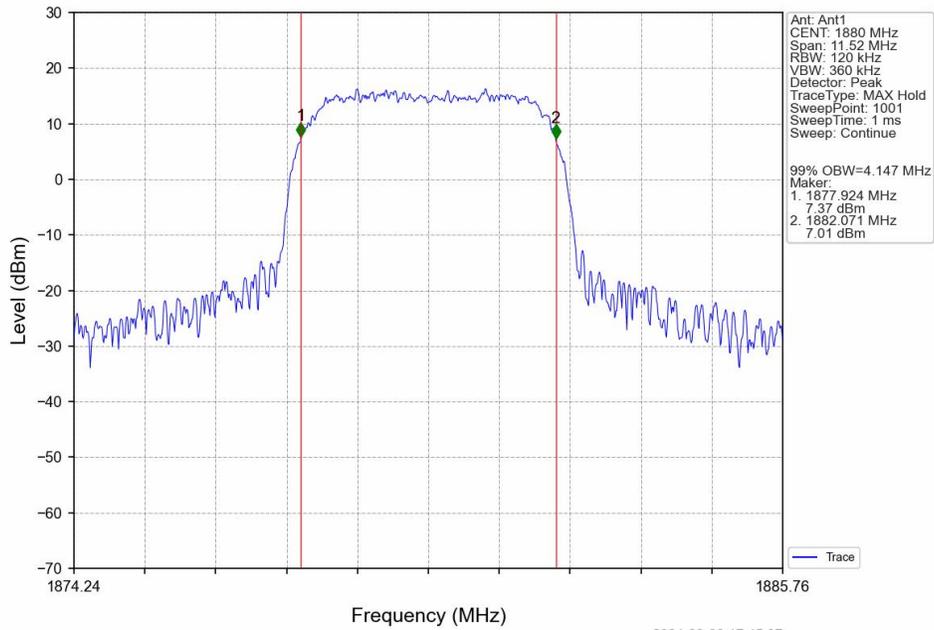
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps\_RMC\_NTNV



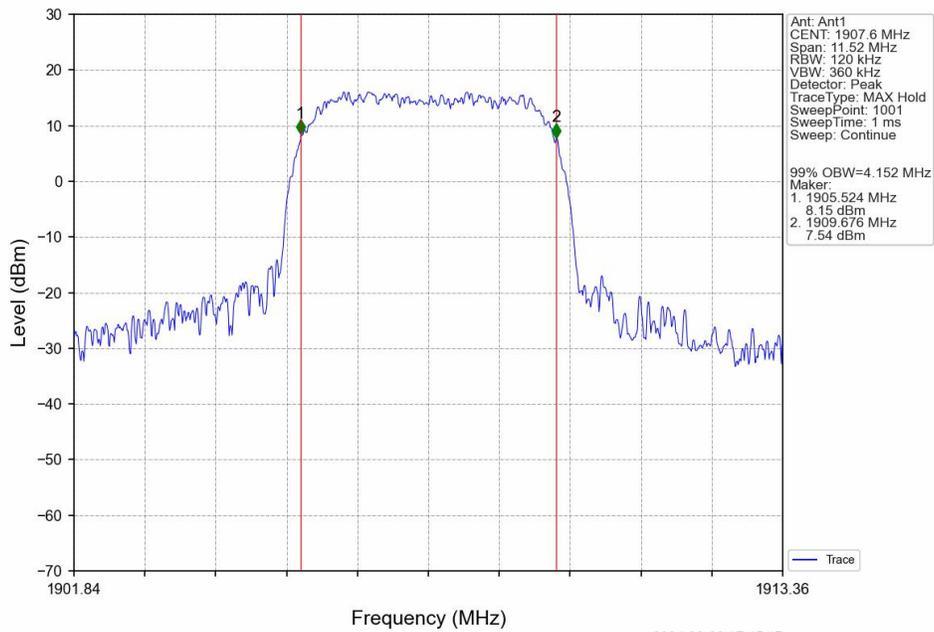
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



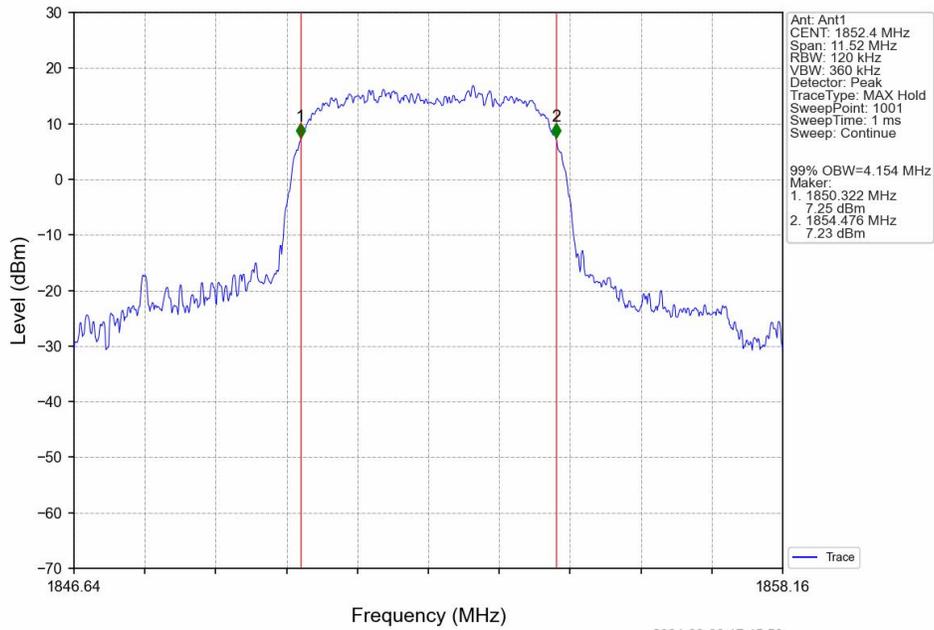
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



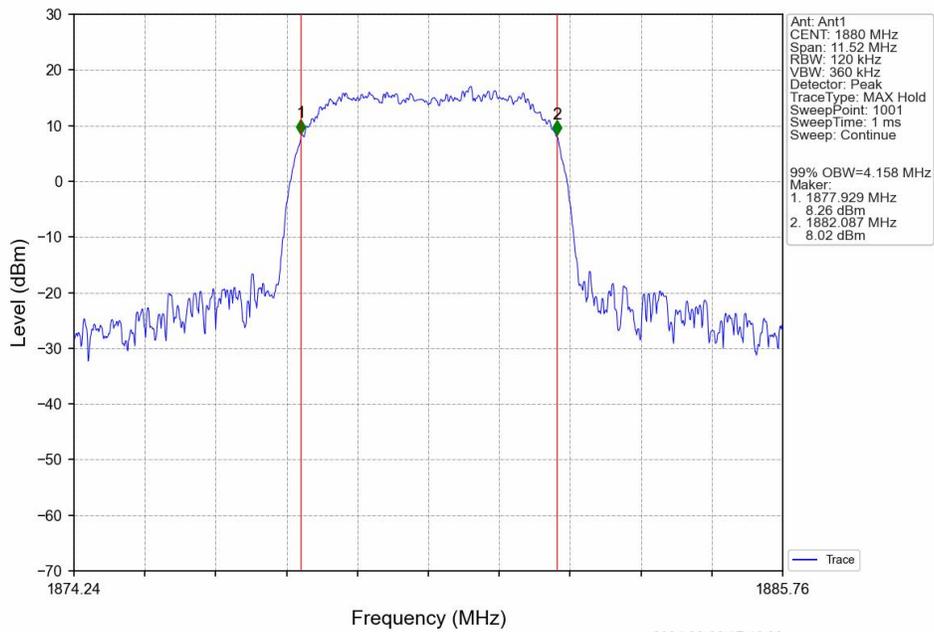
Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV

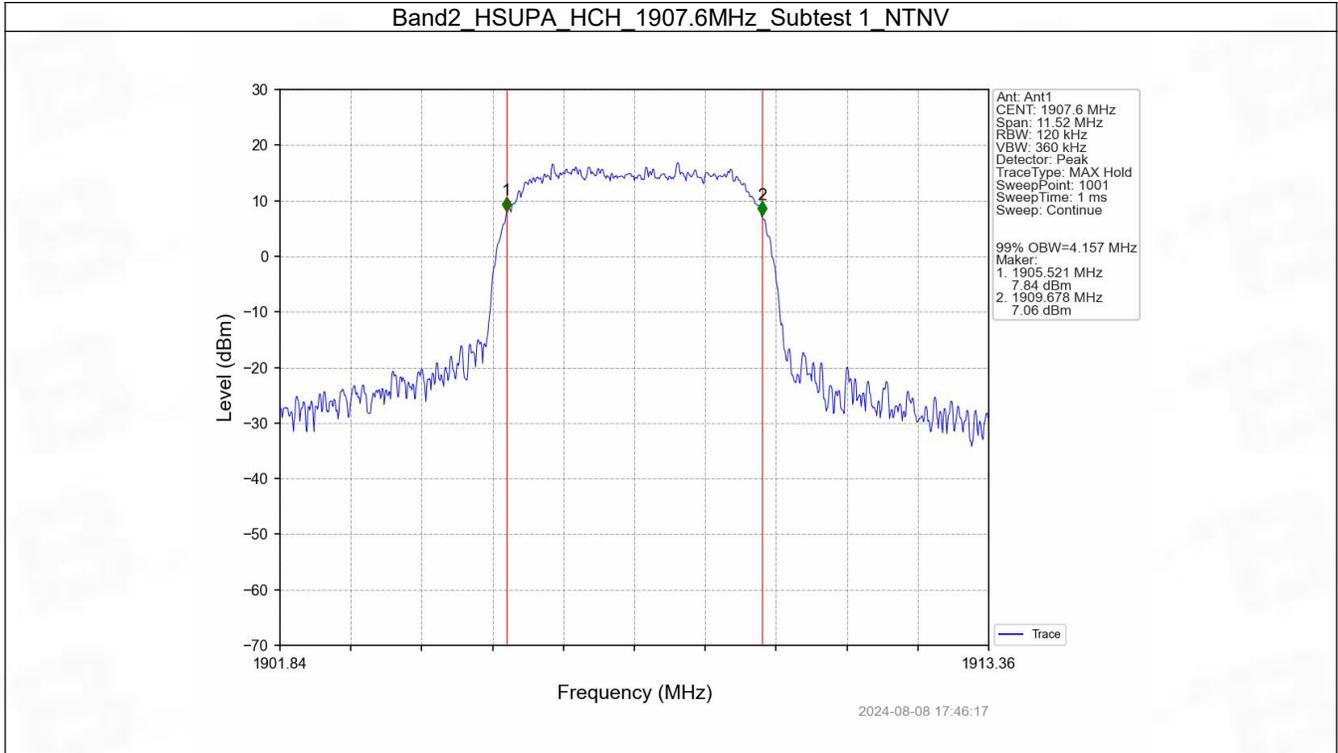


Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV

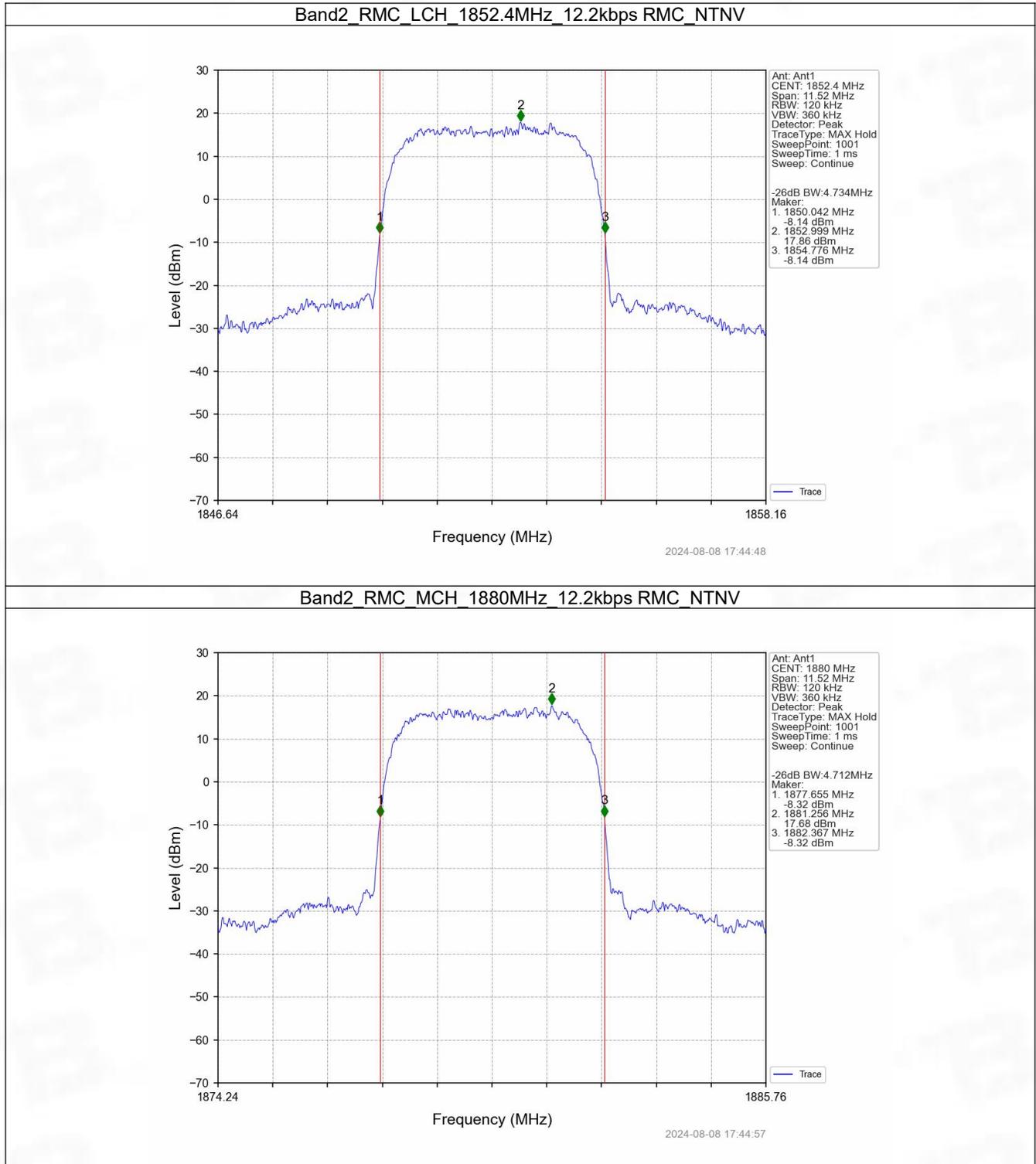


Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV

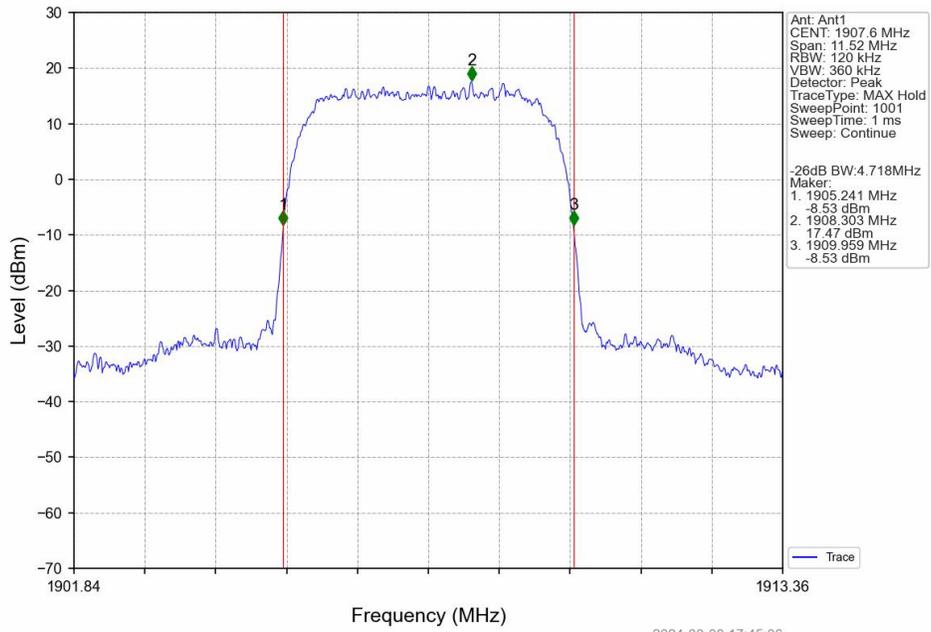




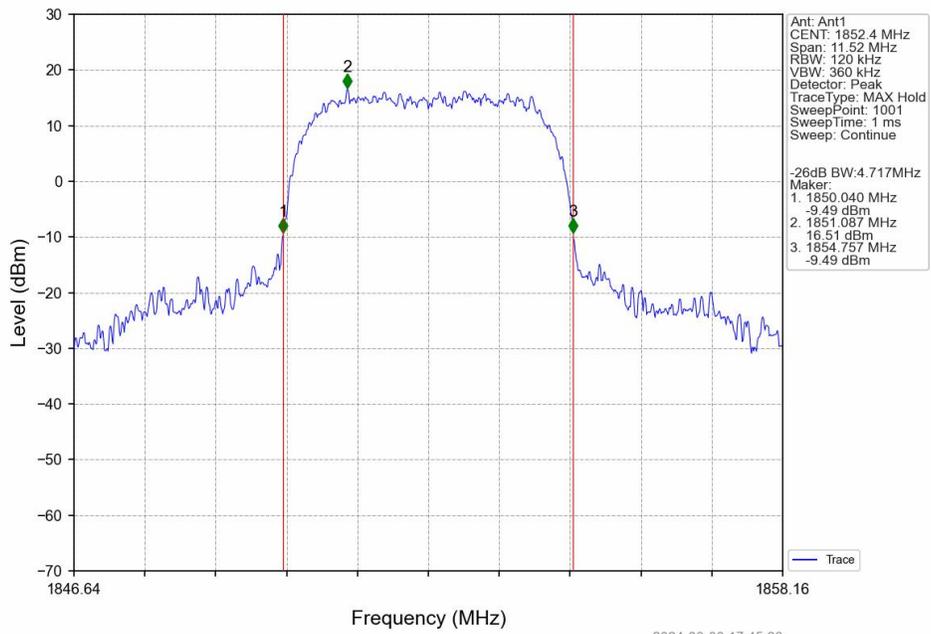
## 4.2.2 Band2\_XDB



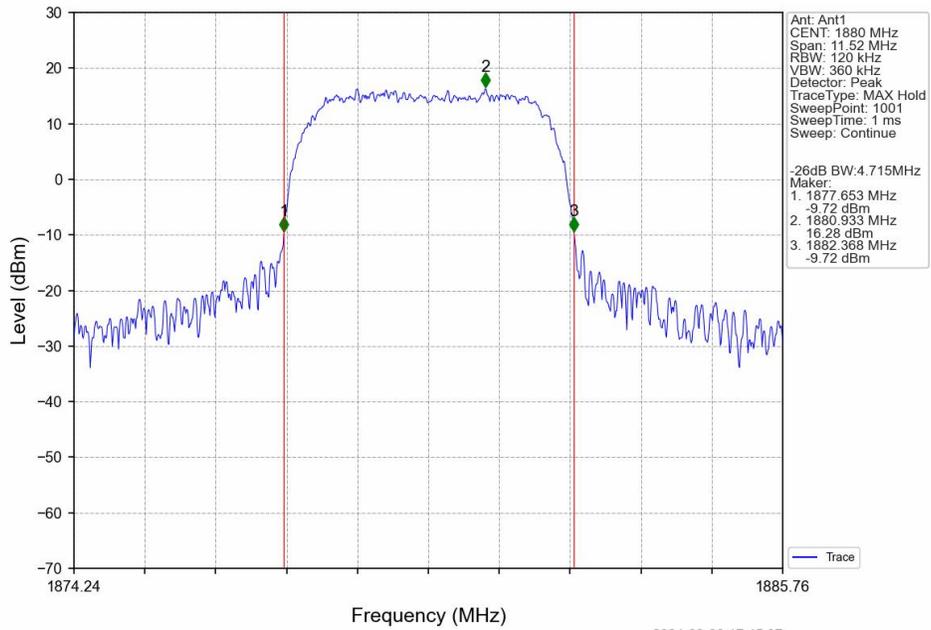
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps\_RMC\_NTNV



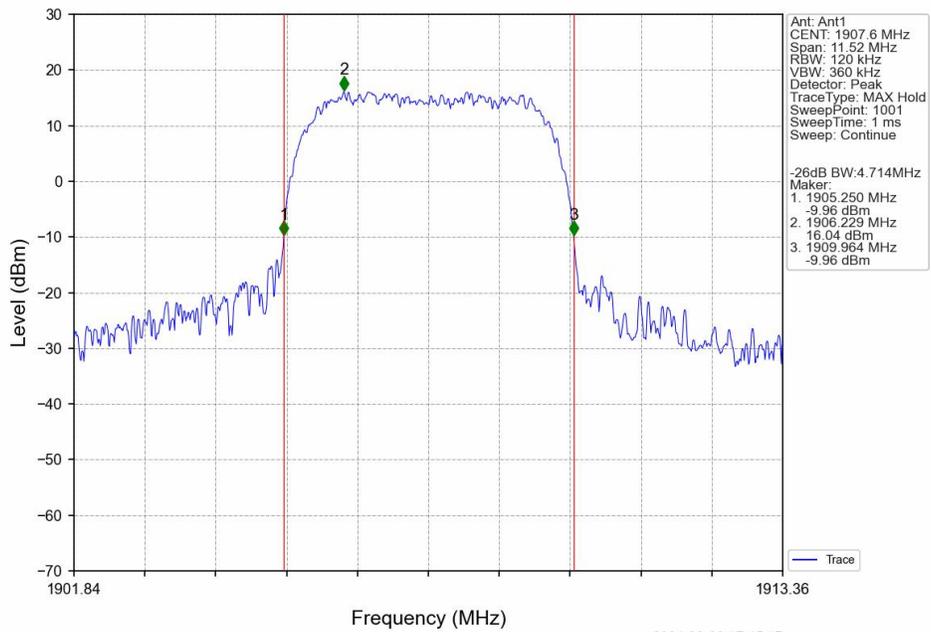
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



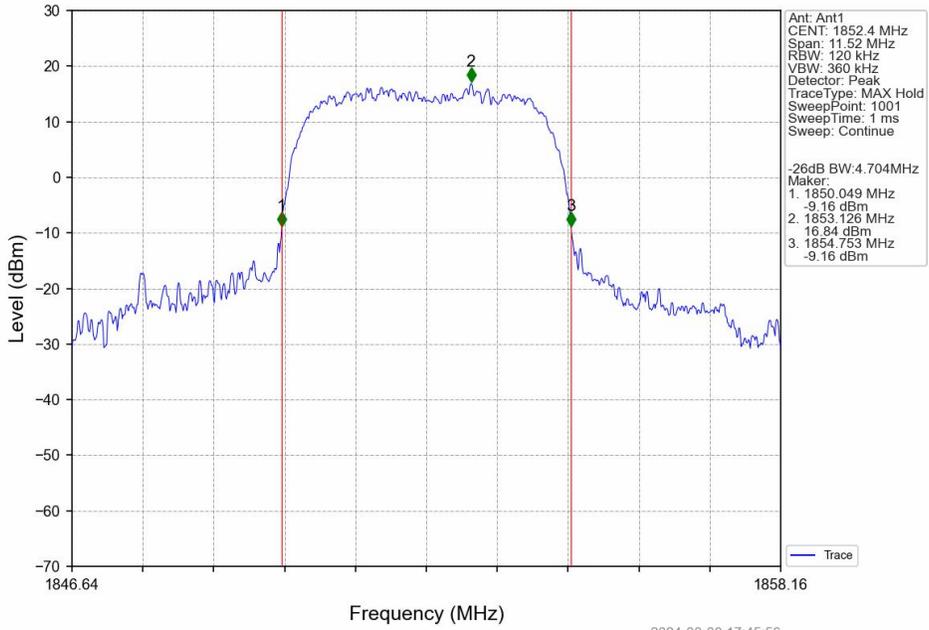
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



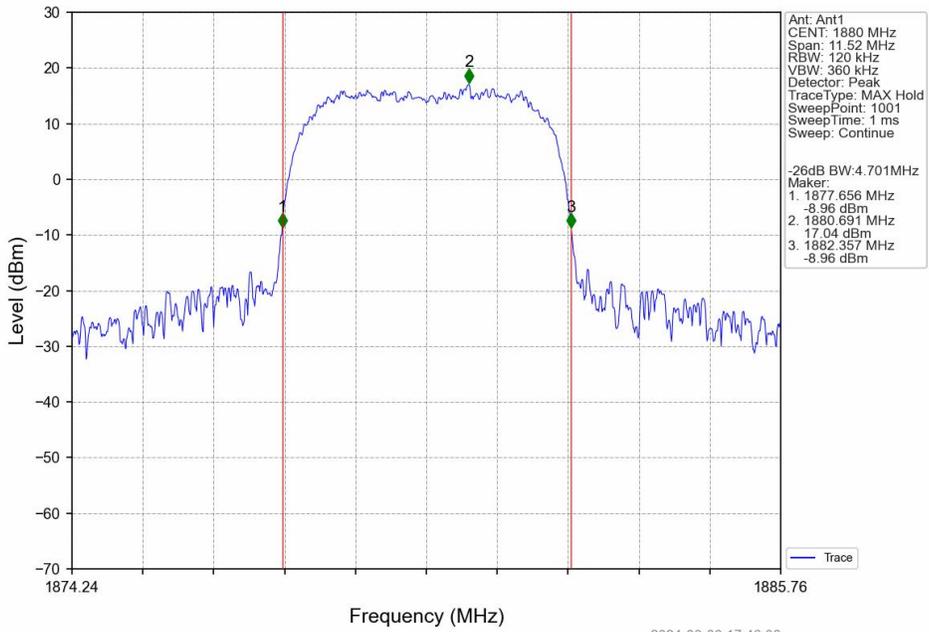
Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV

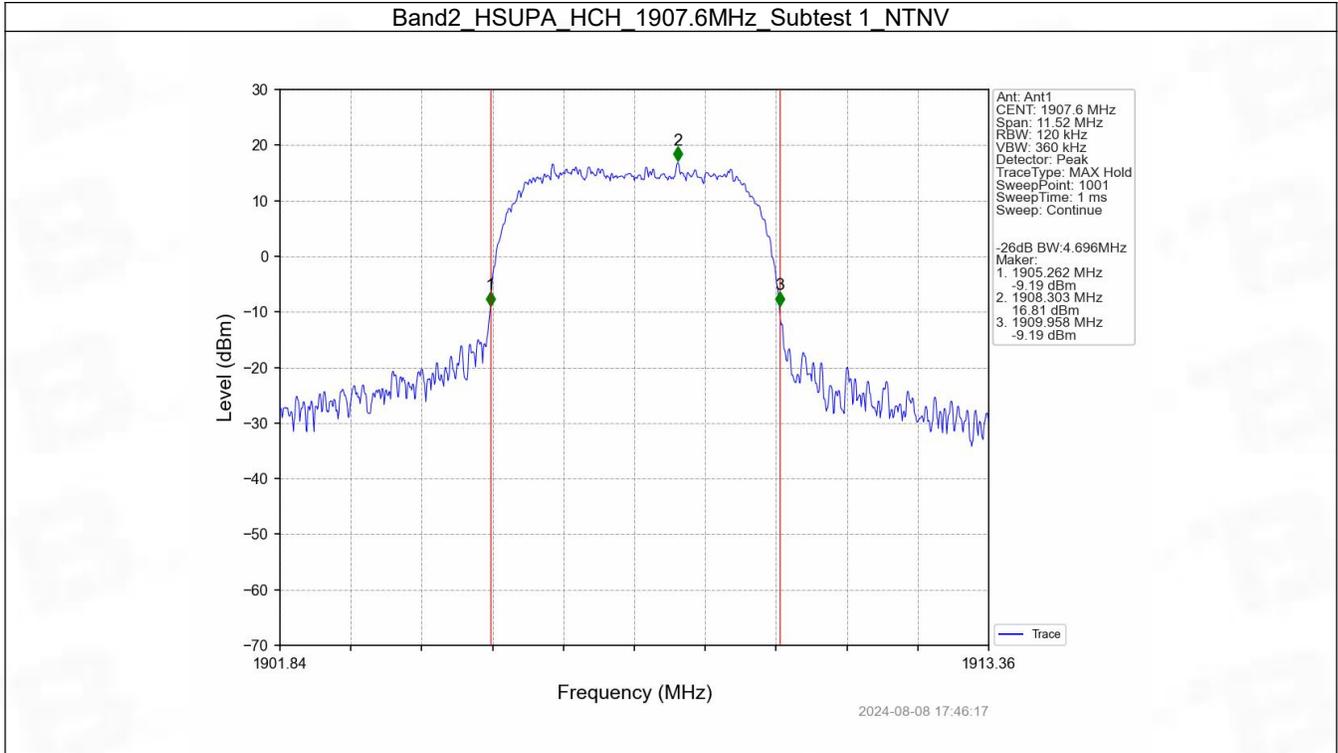


Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV





## 5. Peak-Average Ratio

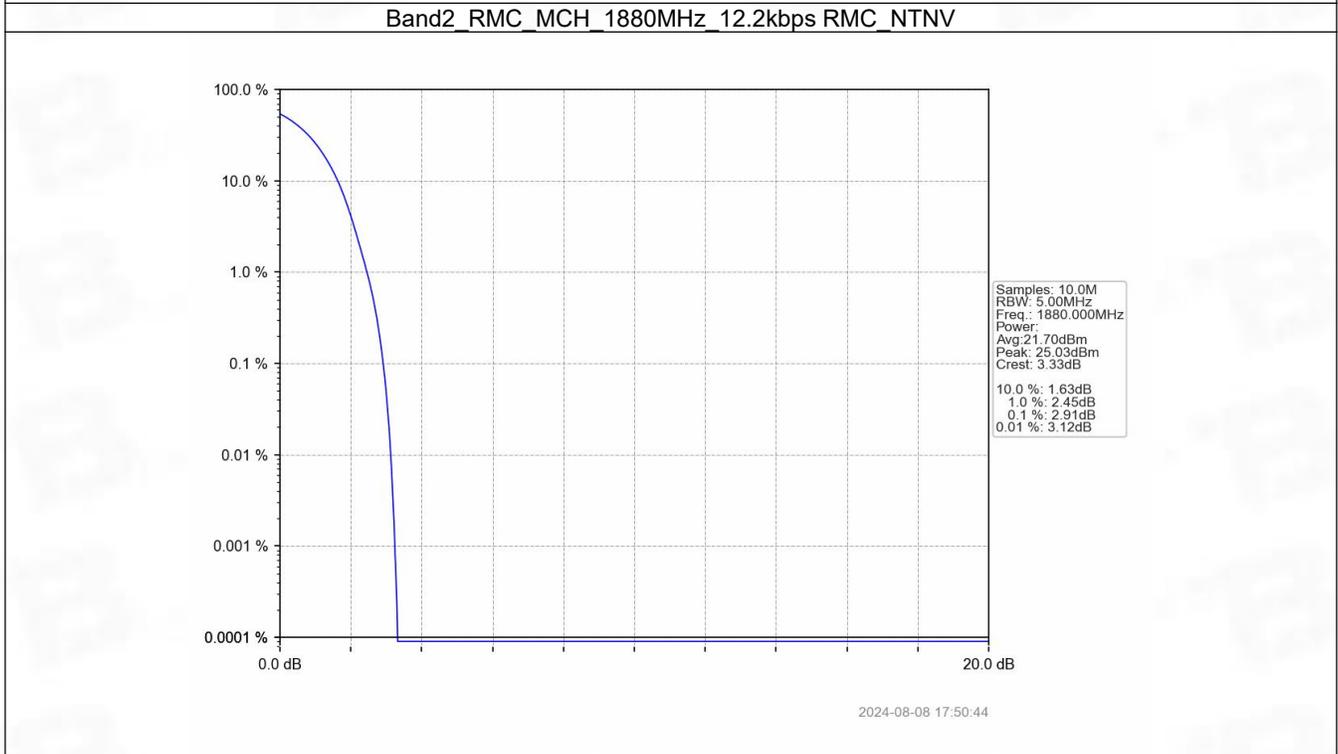
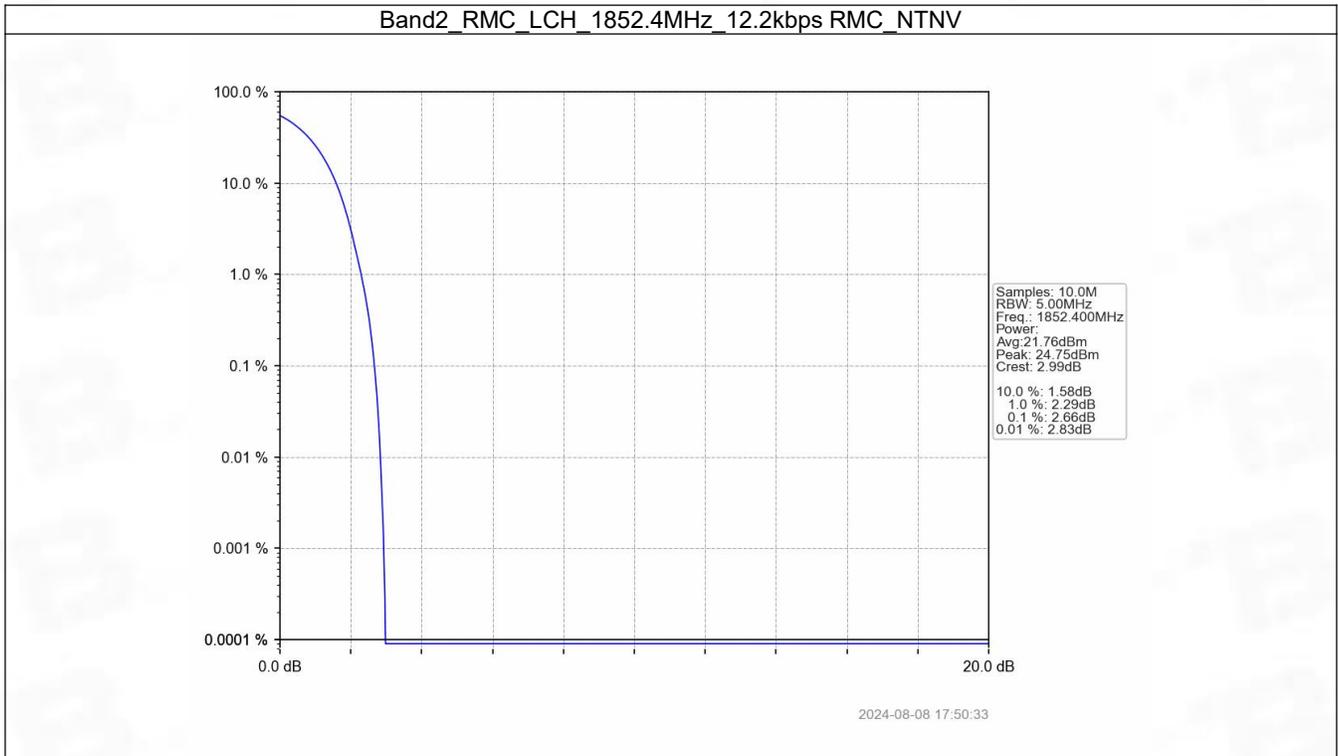
### 5.1 Test Result

#### 5.1.1 Band2

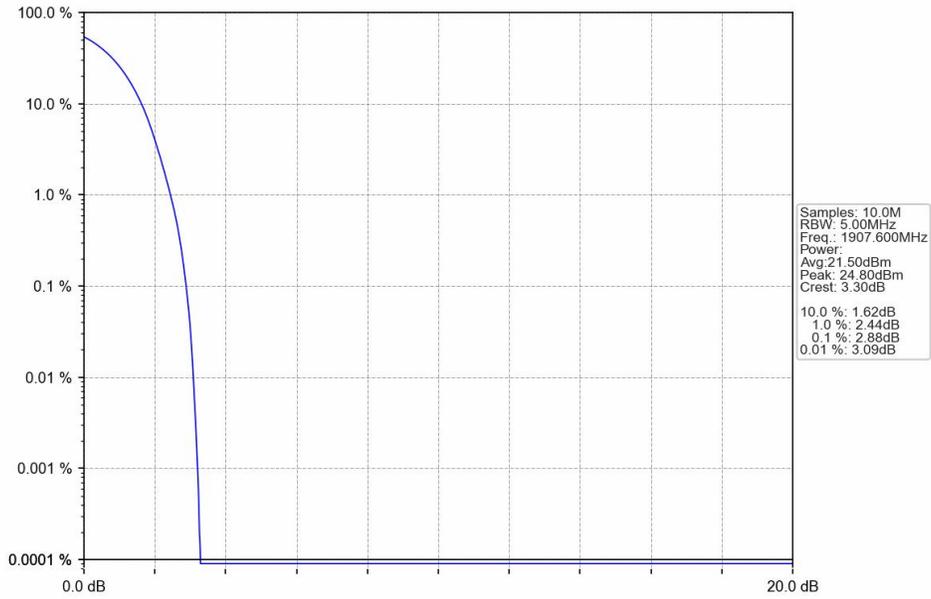
Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.66	<=13	Pass
			1880	2.91	<=13	Pass
			1907.6	2.88	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.52	<=13	Pass
			1880	5.58	<=13	Pass
			1907.6	5.50	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.42	<=13	Pass
			1880	5.31	<=13	Pass
			1907.6	5.75	<=13	Pass

## 5.2 Test Graph

### 5.2.1 Band2

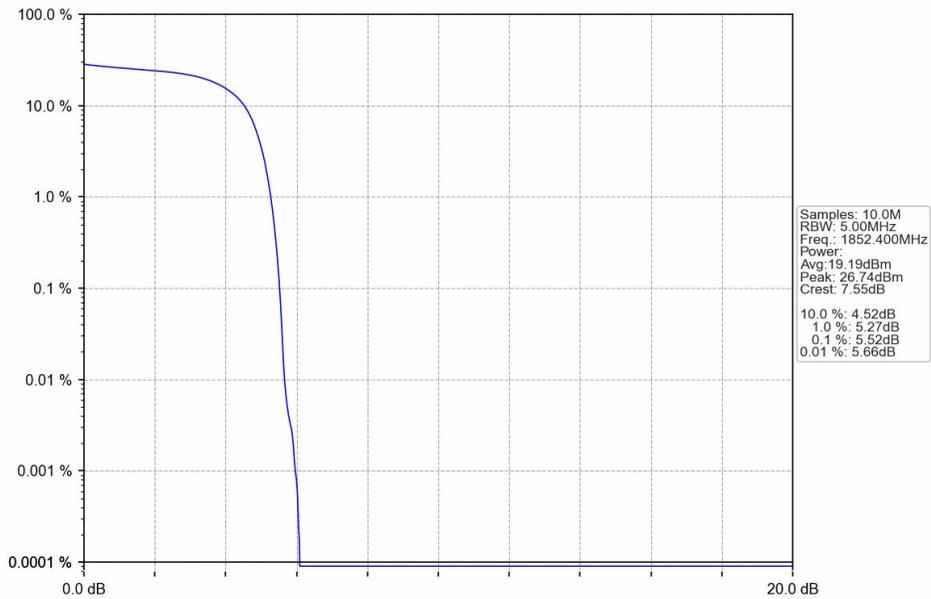


Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps\_RMC\_NTNV



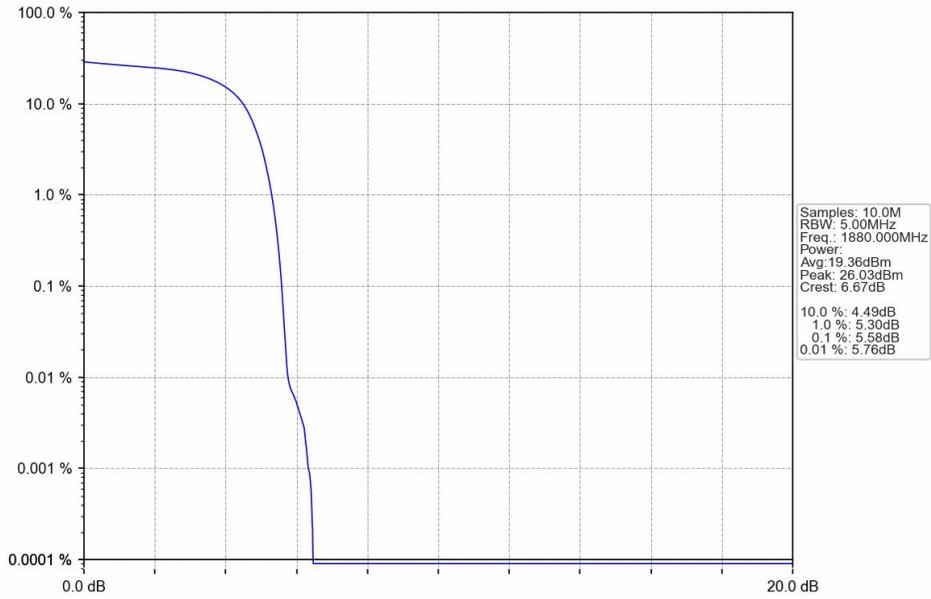
2024-08-08 17:50:54

Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



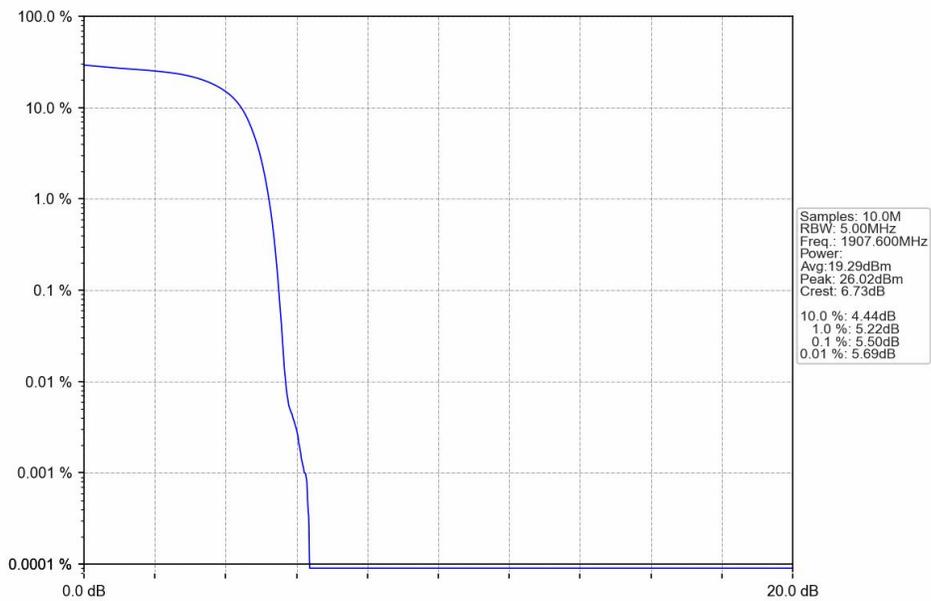
2024-08-08 17:51:17

Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



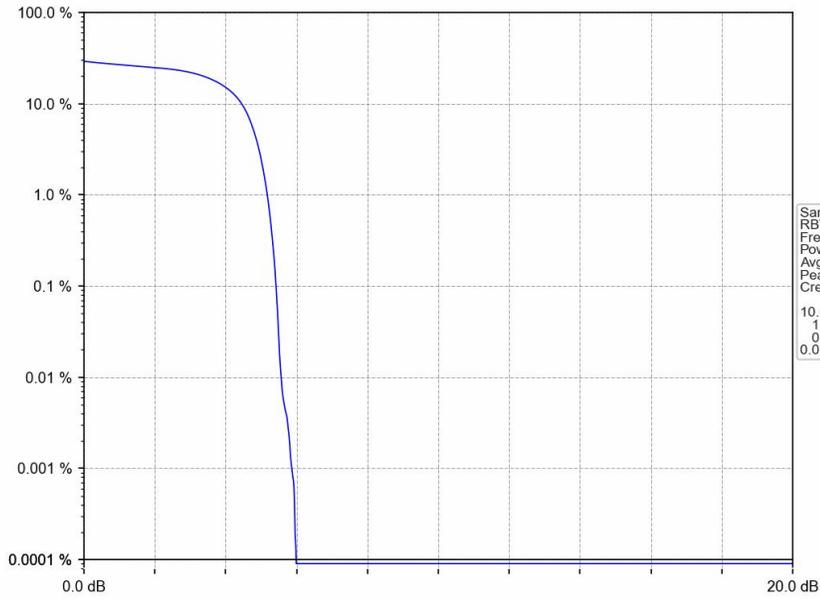
2024-08-08 17:51:30

Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



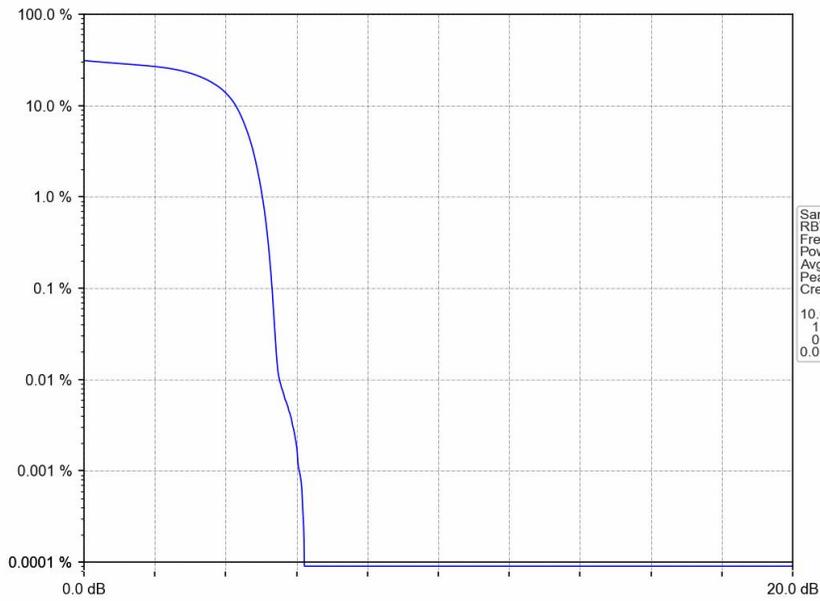
2024-08-08 17:51:41

Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



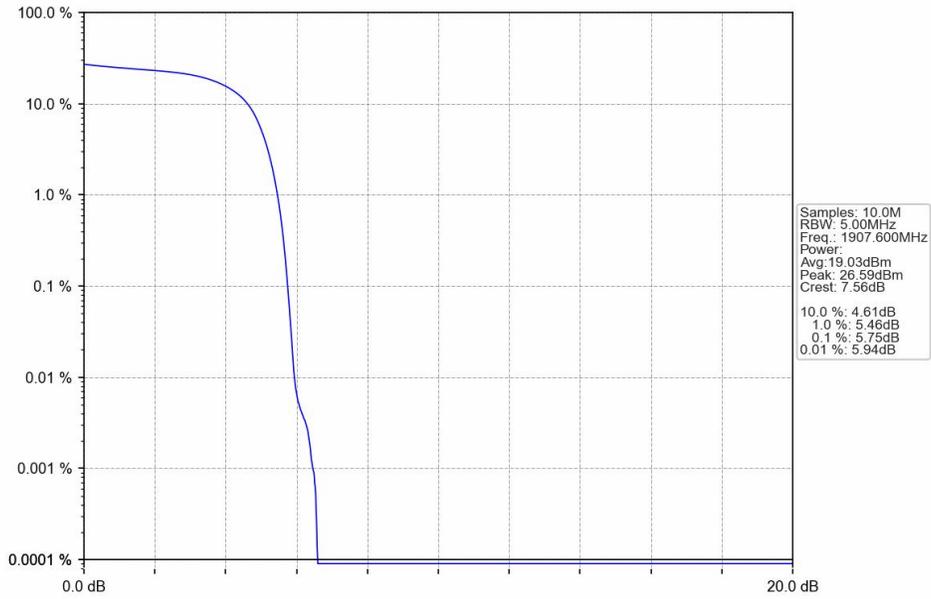
2024-08-08 17:51:52

Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



2024-08-08 17:52:03

Band2\_HSUPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



2024-08-08 17:52:15

## 6. Spurious Emission

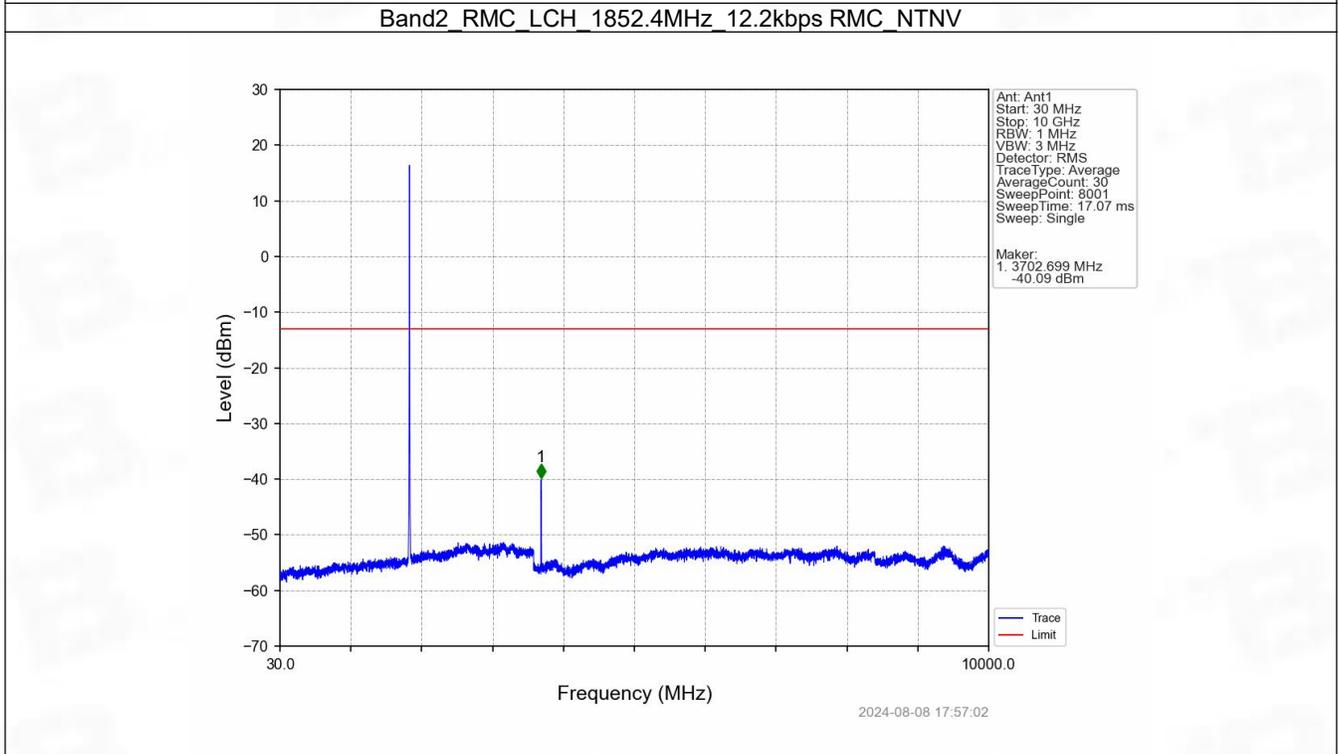
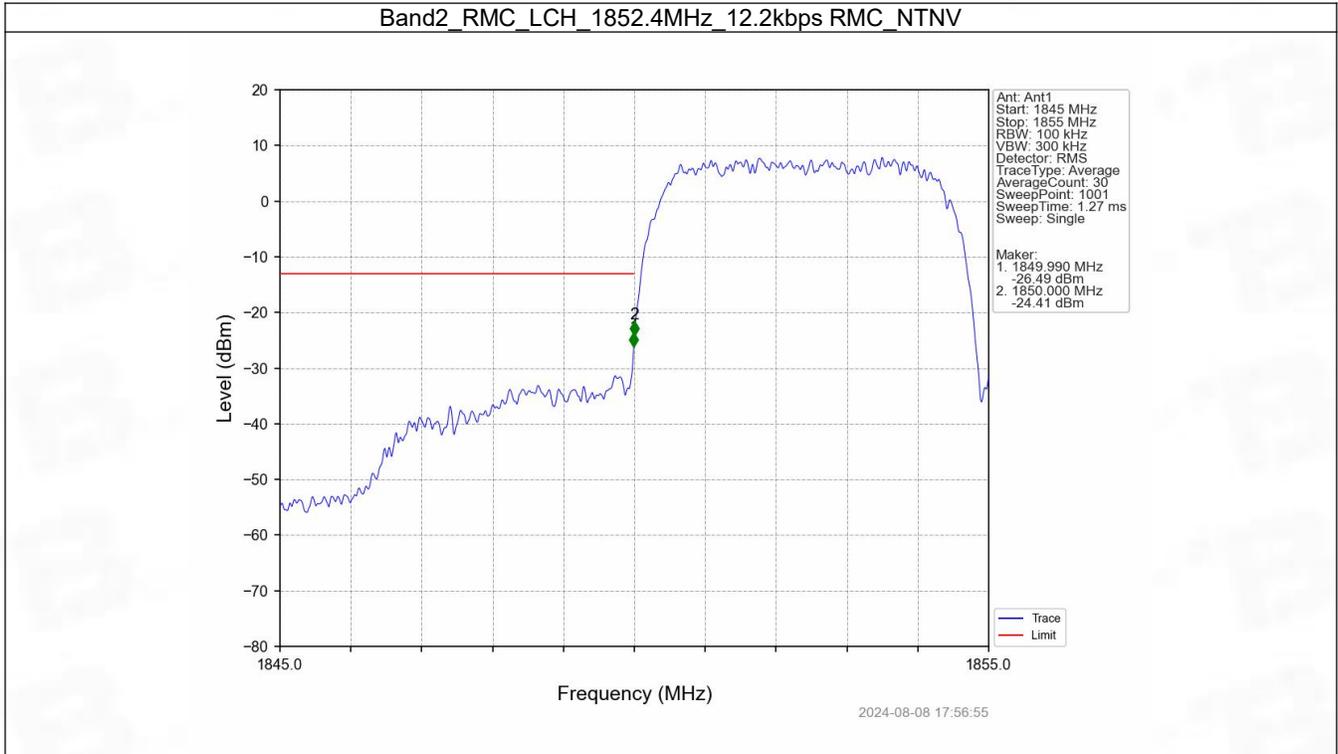
### 6.1 Test Result

#### 6.1.1 Band2

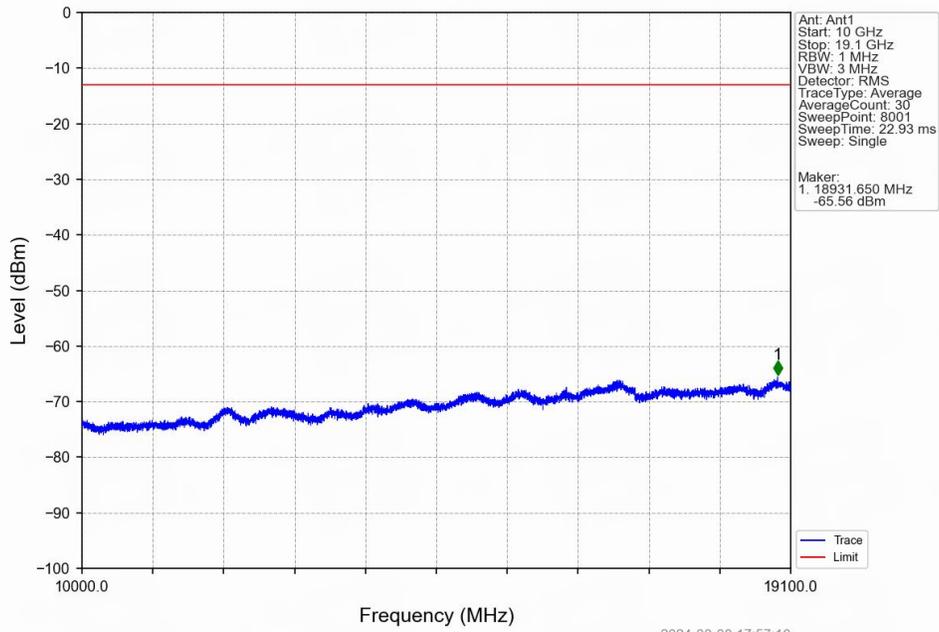
Band: 2						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1907.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph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

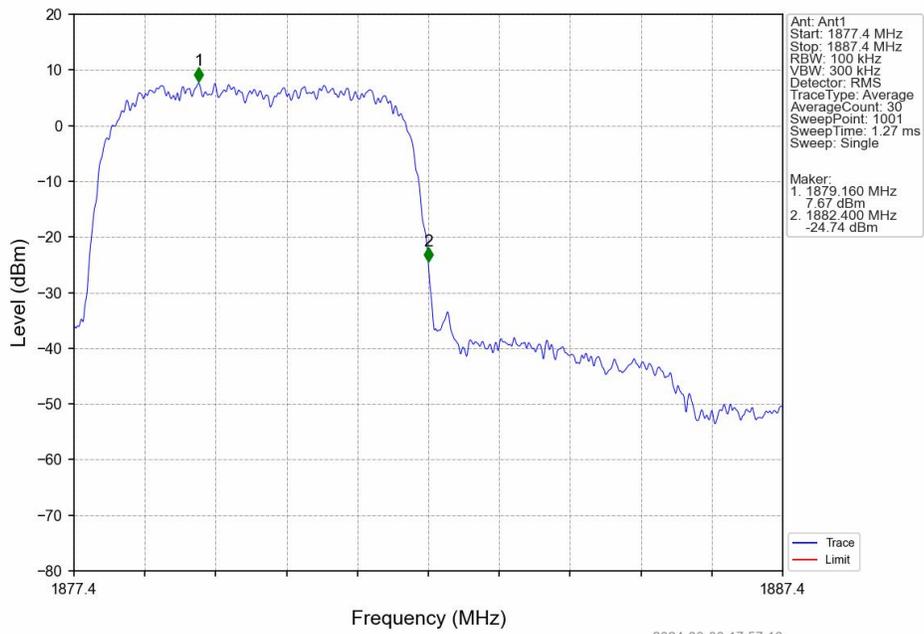
### 6.2.1 Band2



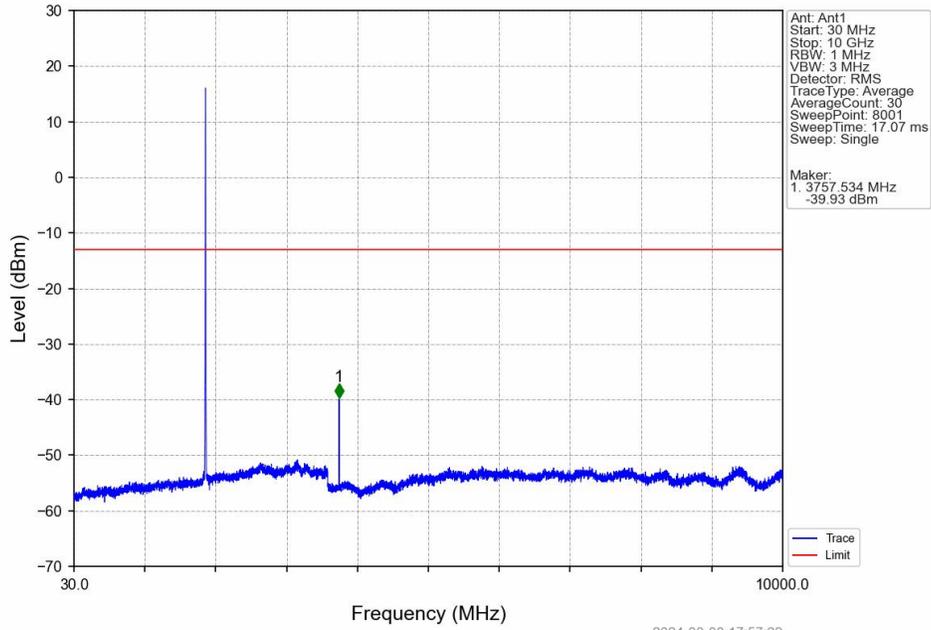
Band2\_RMC\_LCH\_1852.4MHz\_12.2kbps RMC\_NTNV



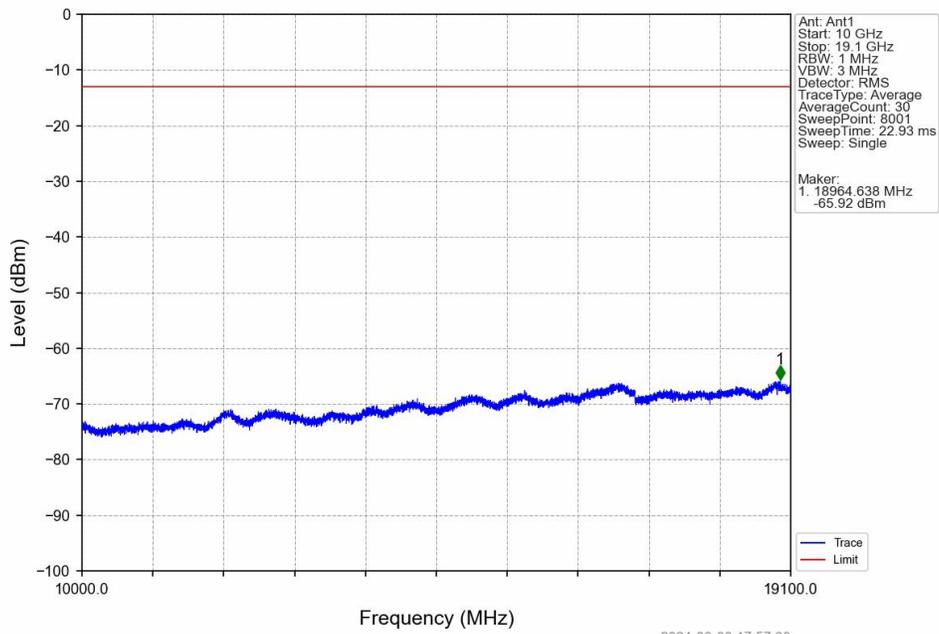
Band2\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



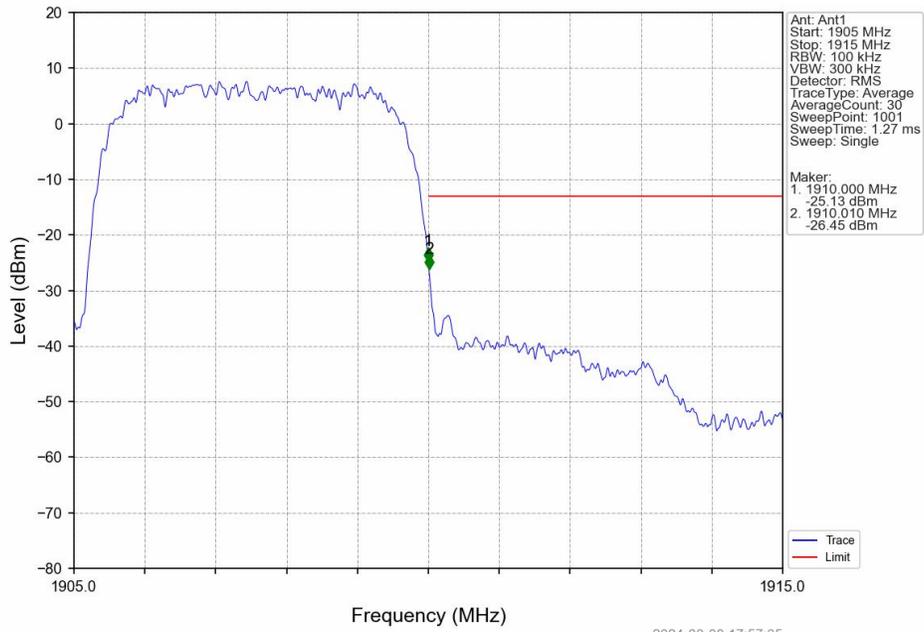
Band2\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



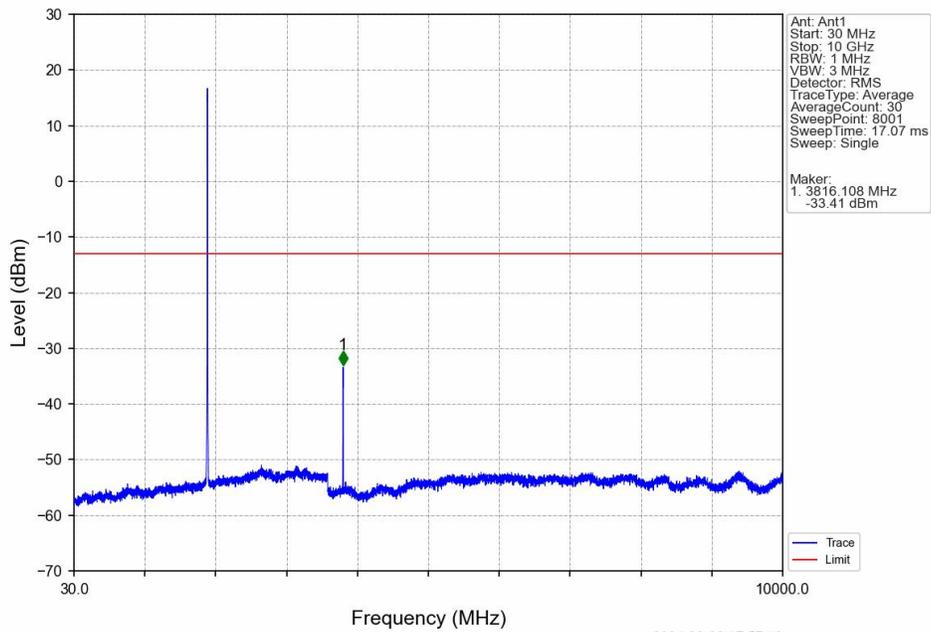
Band2\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



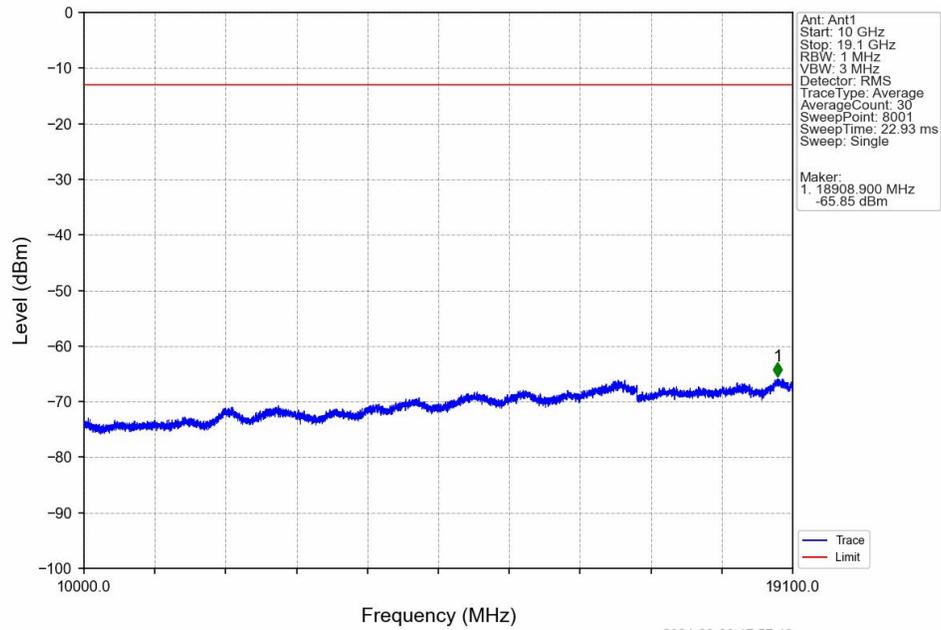
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps\_RMC\_NTNV



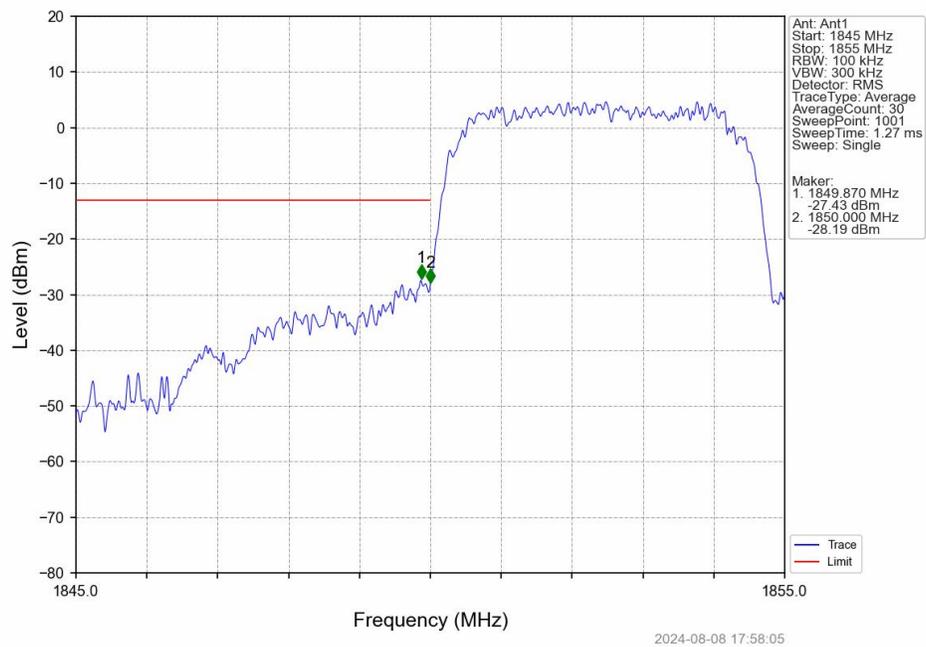
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps\_RMC\_NTNV



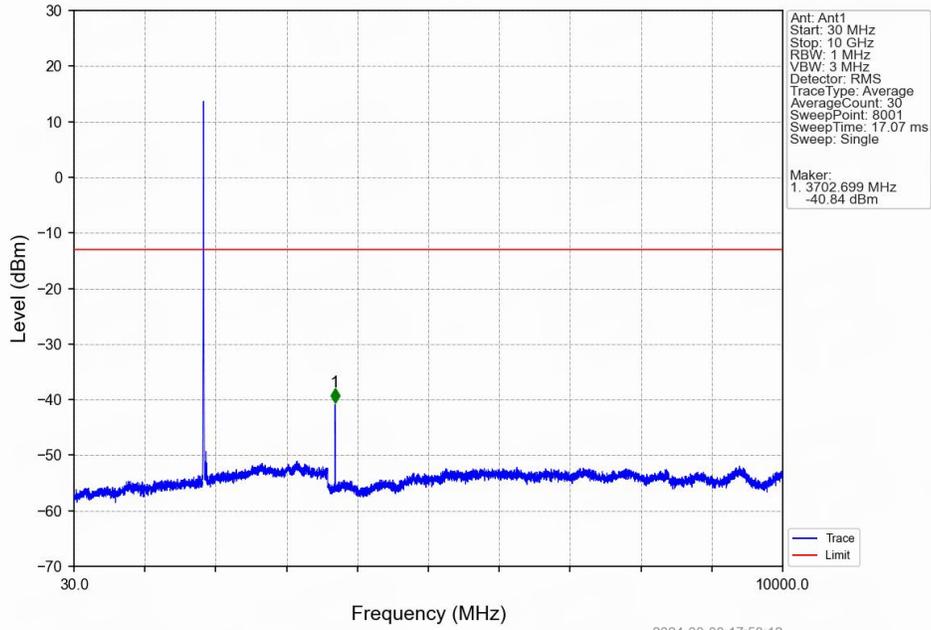
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps\_RMC\_NTNV



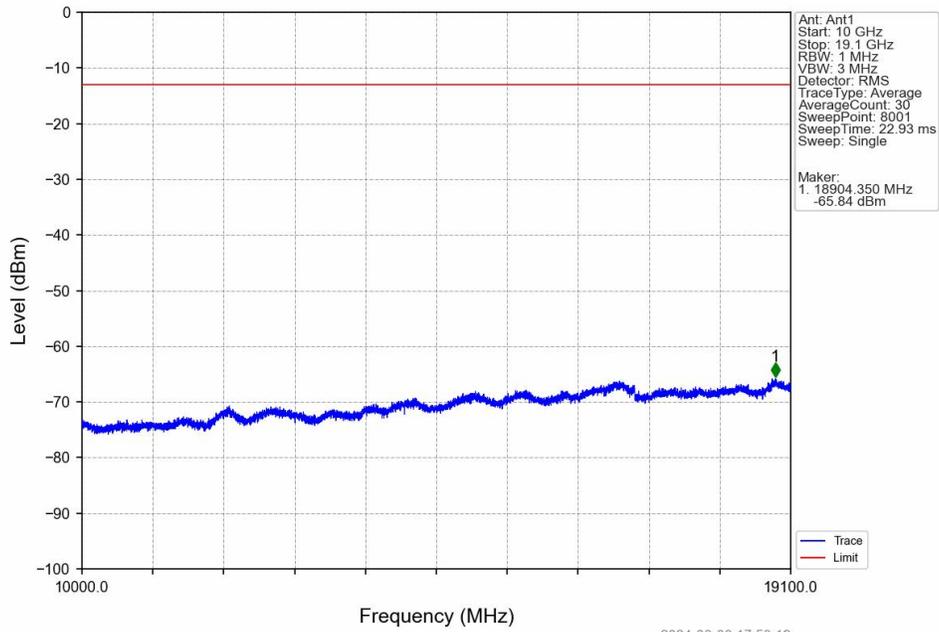
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



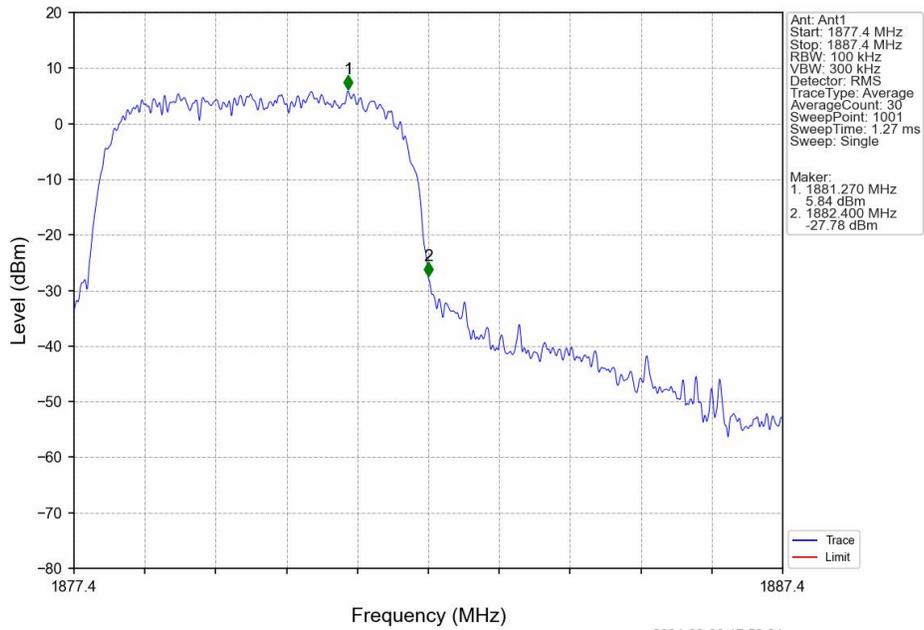
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



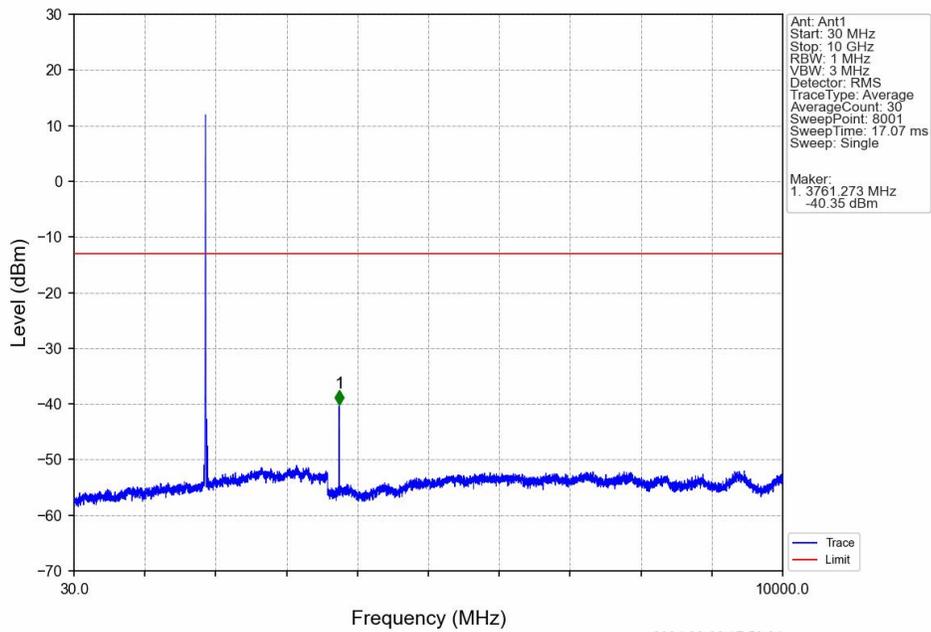
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



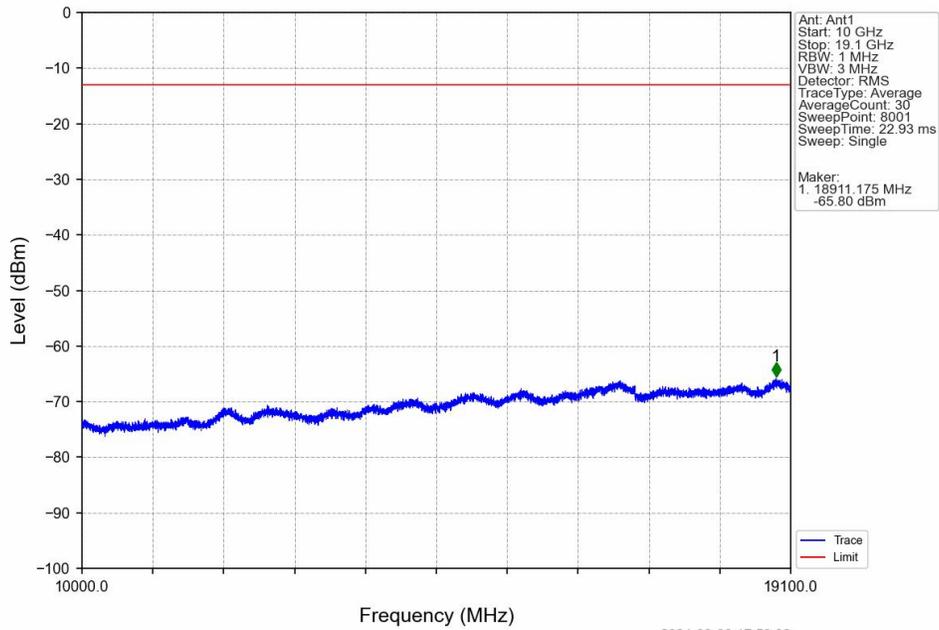
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



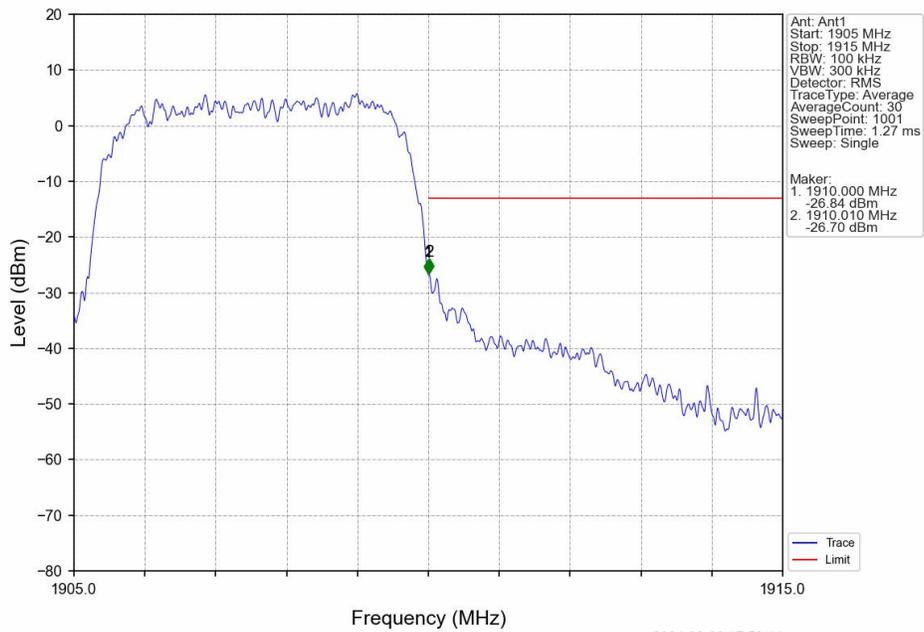
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



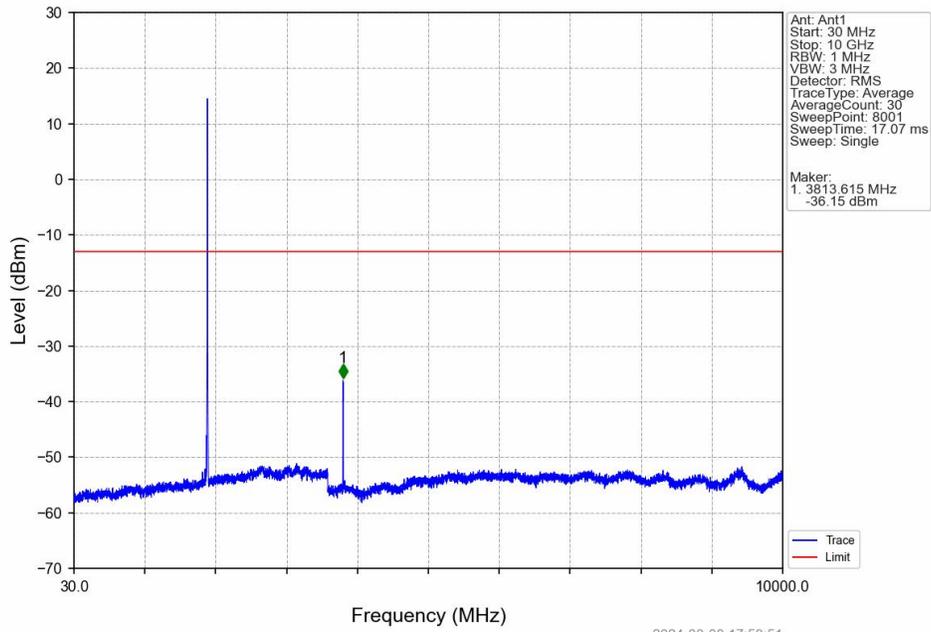
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



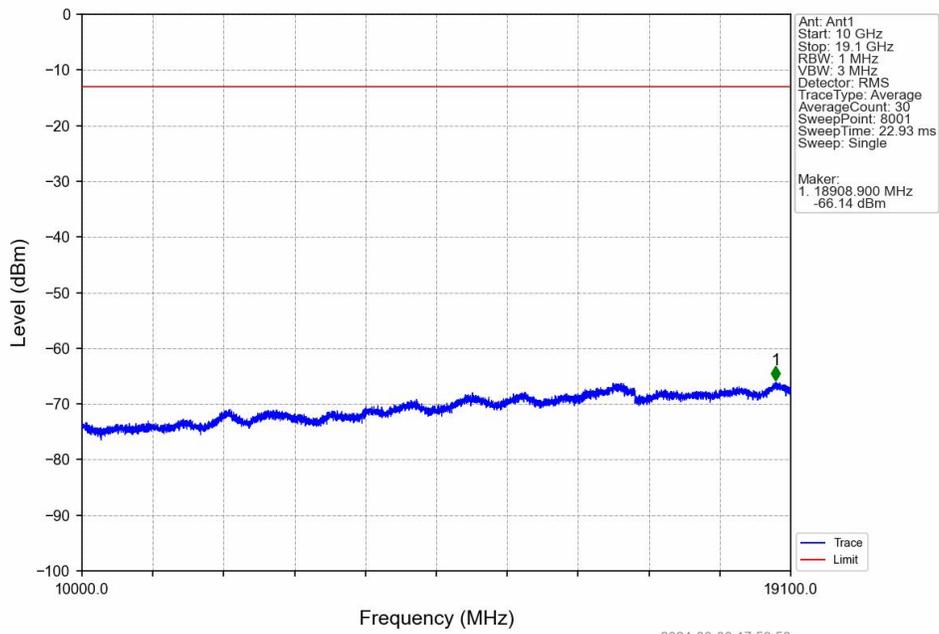
Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



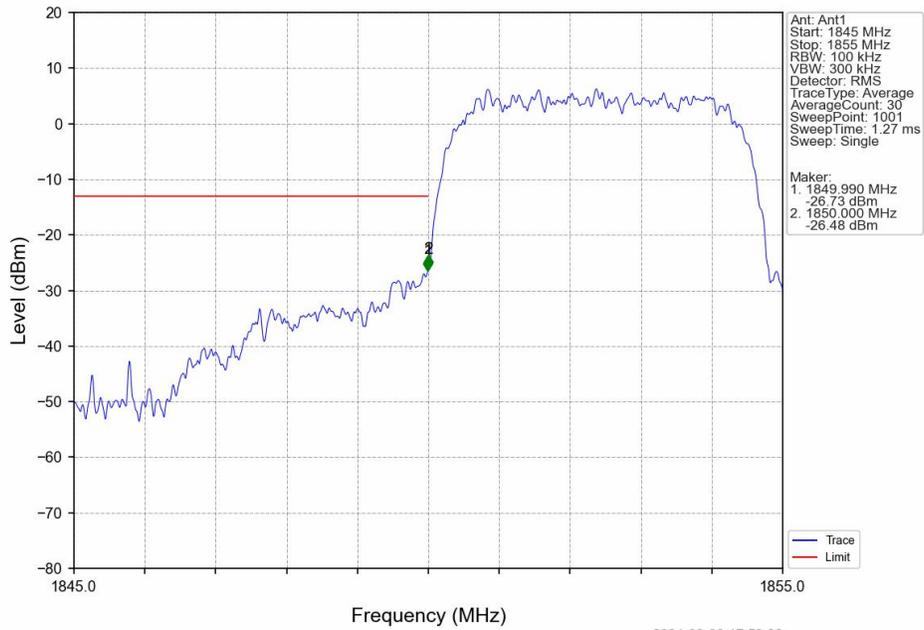
Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



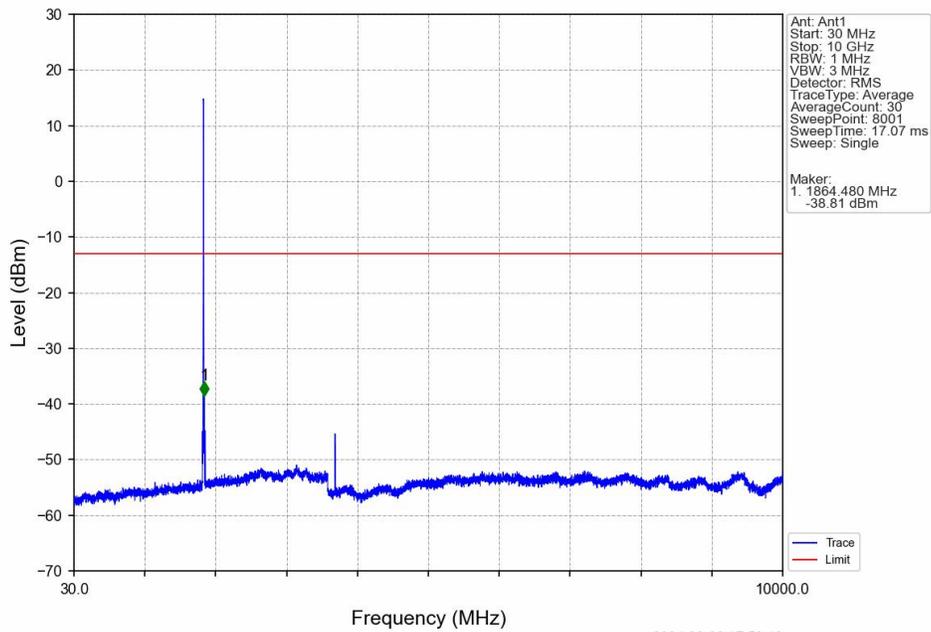
Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



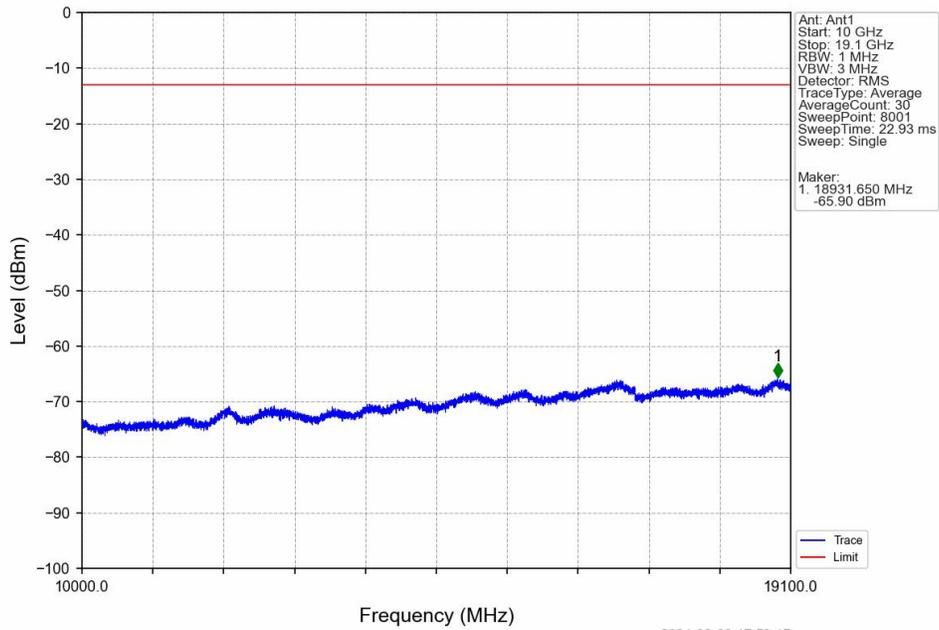
Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



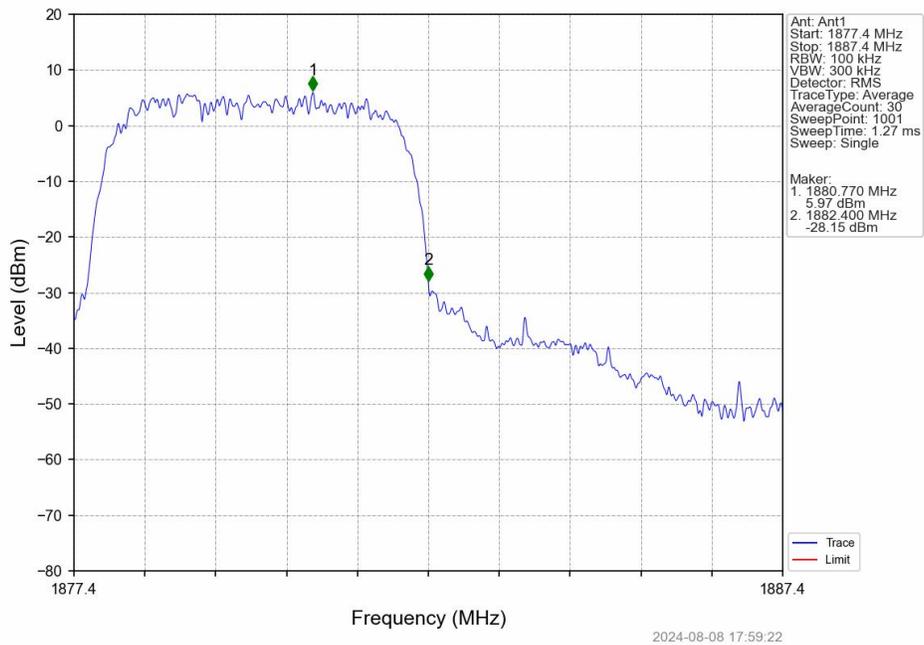
Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



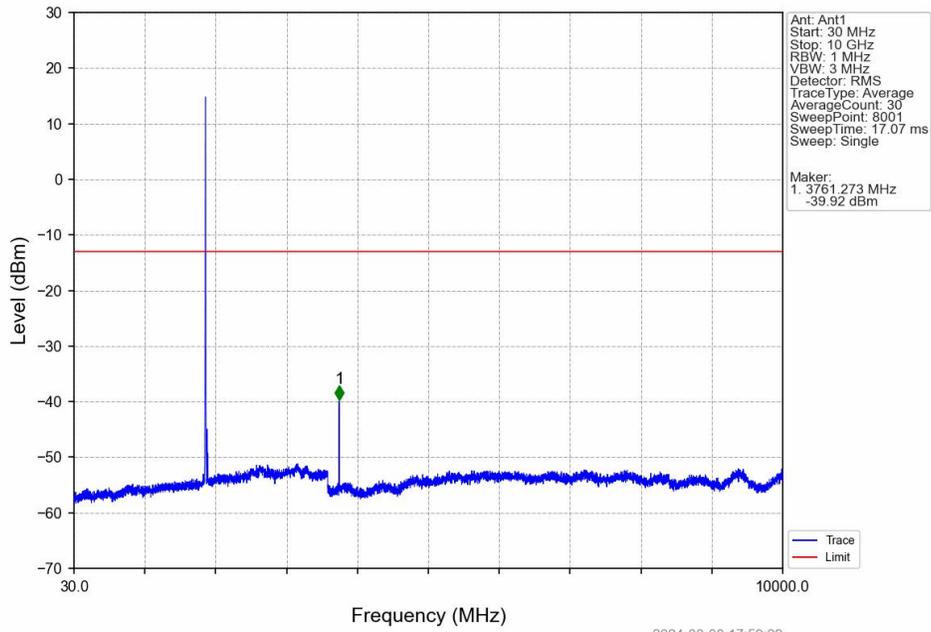
Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



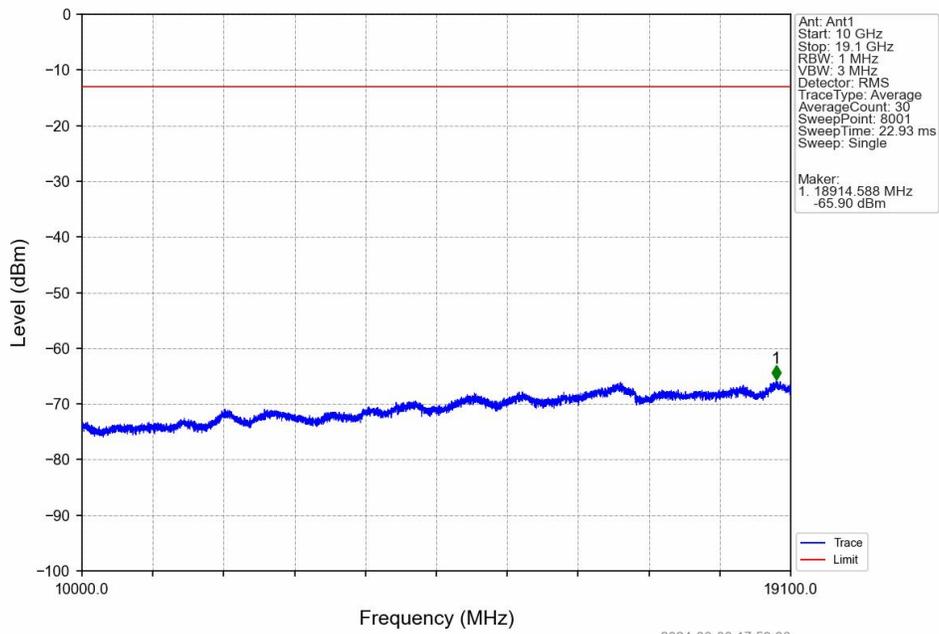
Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



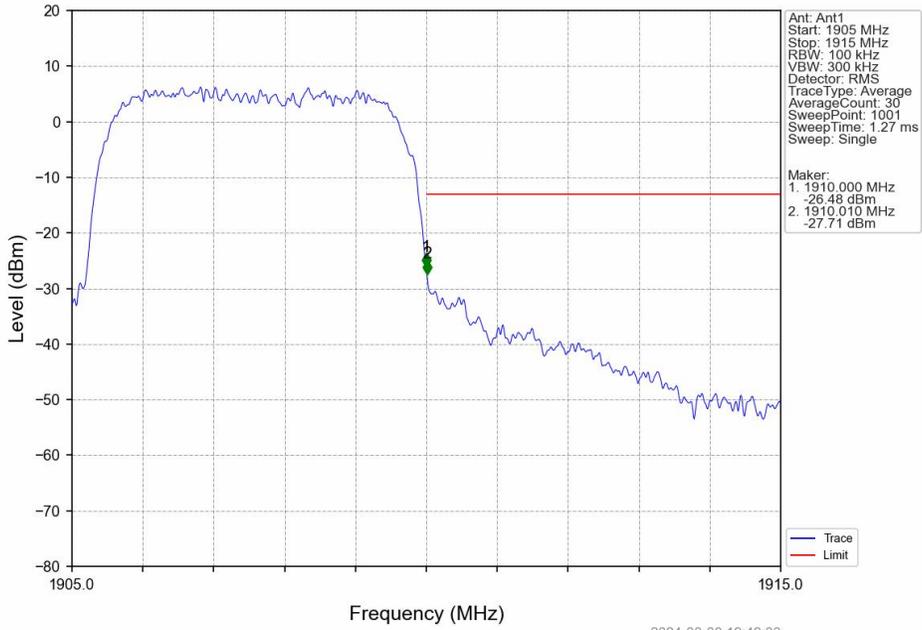
Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



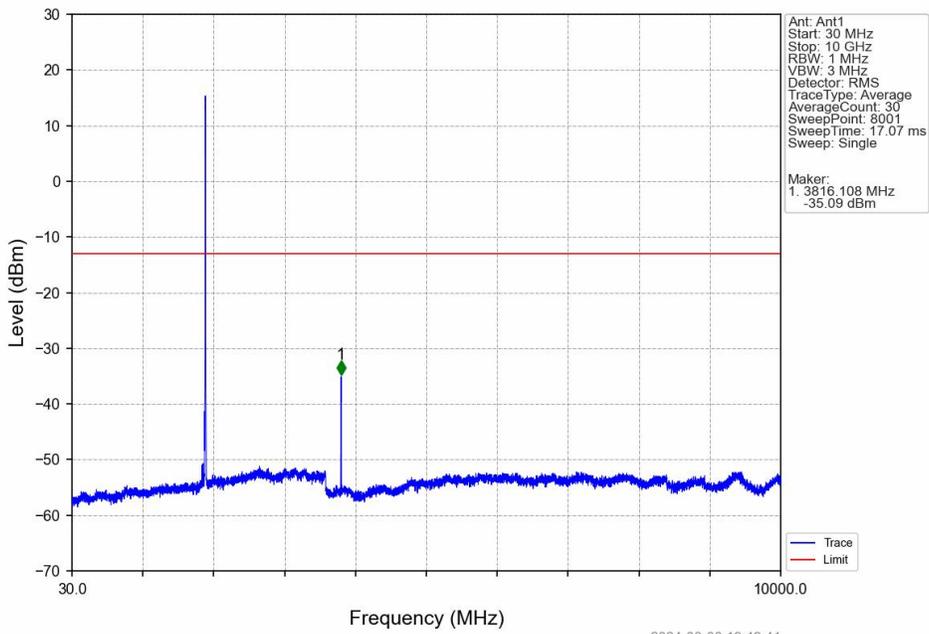
Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



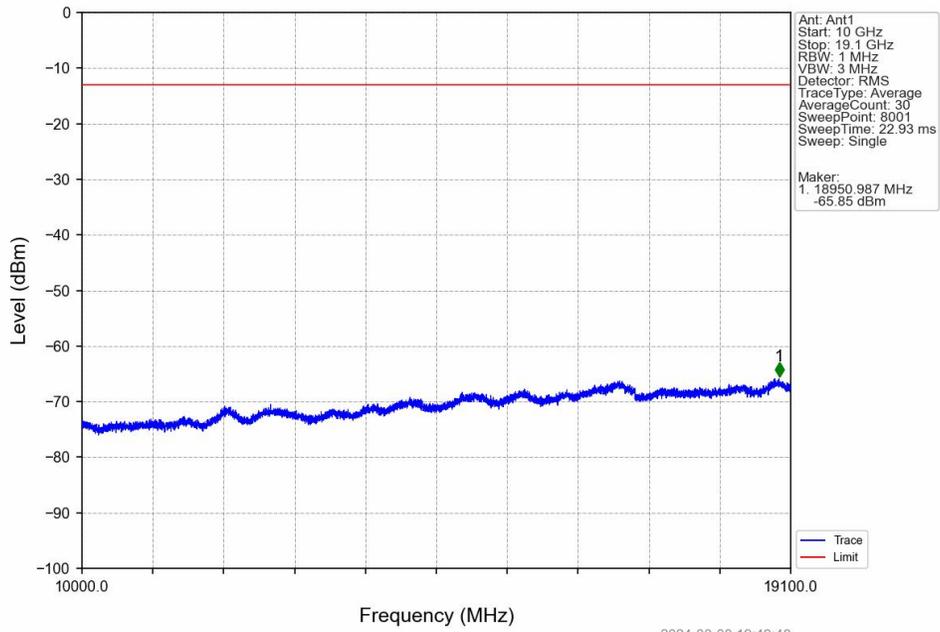
Band2\_HSUPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



Band2\_HSUPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



Band2\_HSUPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



## 7. Form731

### 7.1 Test Result

#### 7.1.1 Form731\_Power

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	0.1489	0.0122	ppm	4M17F9W	24E	21.73

#### 7.1.2 Form731\_EIRP

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	0.1199	0.0122	ppm	4M17F9W	24E	20.79