



## 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	21.78	-0.32	21.46	<=33.01	Pass	
			1880	21.56	-0.32	21.24	<=33.01	Pass	
			1907.6	21.61	-0.32	21.29	<=33.01	Pass	
	HSDPA	Subtest 1	1852.4	22.10	-0.32	21.78	<=33.01	Pass	
		Subtest 2	1852.4	22.18	-0.32	21.86	<=33.01	Pass	
		Subtest 3	1852.4	22.18	-0.32	21.86	<=33.01	Pass	
		Subtest 4	1852.4	22.12	-0.32	21.80	<=33.01	Pass	
		Subtest 1	1880	21.05	-0.32	20.73	<=33.01	Pass	
		Subtest 2	1880	21.05	-0.32	20.73	<=33.01	Pass	
		Subtest 3	1880	21.04	-0.32	20.72	<=33.01	Pass	
		Subtest 4	1880	20.98	-0.32	20.66	<=33.01	Pass	
		Subtest 1	1907.6	21.65	-0.32	21.33	<=33.01	Pass	
		Subtest 2	1907.6	21.65	-0.32	21.33	<=33.01	Pass	
		Subtest 3	1907.6	21.66	-0.32	21.34	<=33.01	Pass	
		Subtest 4	1907.6	21.61	-0.32	21.29	<=33.01	Pass	
		HSUPA	Subtest 1	1852.4	20.26	-0.32	19.94	<=33.01	Pass
			Subtest 2	1852.4	20.18	-0.32	19.86	<=33.01	Pass
			Subtest 3	1852.4	19.97	-0.32	19.65	<=33.01	Pass
			Subtest 4	1852.4	19.95	-0.32	19.63	<=33.01	Pass
	Subtest 5		1852.4	19.95	-0.32	19.63	<=33.01	Pass	
	Subtest 1		1880	18.86	-0.32	18.54	<=33.01	Pass	
	Subtest 2		1880	19.01	-0.32	18.69	<=33.01	Pass	
	Subtest 3		1880	18.76	-0.32	18.44	<=33.01	Pass	
	Subtest 4		1880	18.74	-0.32	18.42	<=33.01	Pass	
	Subtest 5		1880	18.46	-0.32	18.14	<=33.01	Pass	
	Subtest 1		1907.6	19.43	-0.32	19.11	<=33.01	Pass	
	Subtest 2		1907.6	19.15	-0.32	18.83	<=33.01	Pass	
	Subtest 3		1907.6	19.14	-0.32	18.82	<=33.01	Pass	
	Subtest 4		1907.6	19.14	-0.32	18.82	<=33.01	Pass	
	Subtest 5	1907.6	19.46	-0.32	19.14	<=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	9.842	0.0053	-2.5 to 2.5	Pass



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			3.85	-2.875	-0.0016	-2.5 to 2.5	Pass		
			4.43	6.123	0.0033	-2.5 to 2.5	Pass		
		-30	3.85	5.965	0.0032	-2.5 to 2.5	Pass		
		-20	3.85	6.795	0.0037	-2.5 to 2.5	Pass		
		-10	3.85	6.588	0.0036	-2.5 to 2.5	Pass		
		0	3.85	7.553	0.0041	-2.5 to 2.5	Pass		
		10	3.85	4.735	0.0026	-2.5 to 2.5	Pass		
		30	3.85	5.815	0.0031	-2.5 to 2.5	Pass		
		40	3.85	5.229	0.0028	-2.5 to 2.5	Pass		
		50	3.85	5.021	0.0027	-2.5 to 2.5	Pass		
		1880	20		3.27	6.452	0.0034	-2.5 to 2.5	Pass
					3.85	2.782	0.0015	-2.5 to 2.5	Pass
					4.43	4.950	0.0026	-2.5 to 2.5	Pass
			-30	3.85	6.866	0.0037	-2.5 to 2.5	Pass	
			-20	3.85	5.021	0.0027	-2.5 to 2.5	Pass	
	-10		3.85	6.645	0.0035	-2.5 to 2.5	Pass		
	0		3.85	6.523	0.0035	-2.5 to 2.5	Pass		
	10		3.85	6.938	0.0037	-2.5 to 2.5	Pass		
	30		3.85	5.028	0.0027	-2.5 to 2.5	Pass		
	40		3.85	2.775	0.0015	-2.5 to 2.5	Pass		
	50	3.85	4.885	0.0026	-2.5 to 2.5	Pass			
	1907.6	20		3.27	3.204	0.0017	-2.5 to 2.5	Pass	
				3.85	-5.357	-0.0028	-2.5 to 2.5	Pass	
				4.43	6.816	0.0036	-2.5 to 2.5	Pass	
		-30	3.85	5.658	0.0030	-2.5 to 2.5	Pass		
		-20	3.85	4.077	0.0021	-2.5 to 2.5	Pass		
		-10	3.85	4.020	0.0021	-2.5 to 2.5	Pass		
		0	3.85	5.579	0.0029	-2.5 to 2.5	Pass		
		10	3.85	5.100	0.0027	-2.5 to 2.5	Pass		
		30	3.85	3.448	0.0018	-2.5 to 2.5	Pass		
		40	3.85	4.020	0.0021	-2.5 to 2.5	Pass		
	50	3.85	2.761	0.0014	-2.5 to 2.5	Pass			
	HSDPA	1852.4	20		3.27	14.763	0.0080	-2.5 to 2.5	Pass
					3.85	6.595	0.0036	-2.5 to 2.5	Pass
					4.43	4.020	0.0022	-2.5 to 2.5	Pass
-30			3.85	3.648	0.0020	-2.5 to 2.5	Pass		
-20			3.85	3.984	0.0022	-2.5 to 2.5	Pass		
-10			3.85	5.701	0.0031	-2.5 to 2.5	Pass		
0			3.85	4.892	0.0026	-2.5 to 2.5	Pass		
10			3.85	6.809	0.0037	-2.5 to 2.5	Pass		
30			3.85	4.864	0.0026	-2.5 to 2.5	Pass		
40			3.85	6.223	0.0034	-2.5 to 2.5	Pass		
50		3.85	4.249	0.0023	-2.5 to 2.5	Pass			
1880		20		3.27	4.778	0.0025	-2.5 to 2.5	Pass	
				3.85	6.716	0.0036	-2.5 to 2.5	Pass	
				4.43	7.360	0.0039	-2.5 to 2.5	Pass	
		-30	3.85	5.958	0.0032	-2.5 to 2.5	Pass		
		-20	3.85	5.758	0.0031	-2.5 to 2.5	Pass		
		-10	3.85	6.344	0.0034	-2.5 to 2.5	Pass		
		0	3.85	5.536	0.0029	-2.5 to 2.5	Pass		
		10	3.85	6.895	0.0037	-2.5 to 2.5	Pass		
		30	3.85	6.938	0.0037	-2.5 to 2.5	Pass		
		40	3.85	9.592	0.0051	-2.5 to 2.5	Pass		
50		3.85	9.019	0.0048	-2.5 to 2.5	Pass			
1907.6		20		3.27	7.918	0.0042	-2.5 to 2.5	Pass	

			3.85	4.678	0.0025	-2.5 to 2.5	Pass		
			4.43	7.002	0.0037	-2.5 to 2.5	Pass		
		-30	3.85	3.476	0.0018	-2.5 to 2.5	Pass		
		-20	3.85	3.641	0.0019	-2.5 to 2.5	Pass		
		-10	3.85	4.385	0.0023	-2.5 to 2.5	Pass		
		0	3.85	6.108	0.0032	-2.5 to 2.5	Pass		
		10	3.85	4.878	0.0026	-2.5 to 2.5	Pass		
		30	3.85	7.203	0.0038	-2.5 to 2.5	Pass		
		40	3.85	5.143	0.0027	-2.5 to 2.5	Pass		
		50	3.85	6.466	0.0034	-2.5 to 2.5	Pass		
		HSUPA	1852.4	20	3.27	-22.359	-0.0121	-2.5 to 2.5	Pass
					3.85	-11.244	-0.0061	-2.5 to 2.5	Pass
					4.43	-9.999	-0.0054	-2.5 to 2.5	Pass
				-30	3.85	-14.849	-0.0080	-2.5 to 2.5	Pass
-20	3.85			-10.350	-0.0056	-2.5 to 2.5	Pass		
-10	3.85			-11.165	-0.0060	-2.5 to 2.5	Pass		
0	3.85			-12.324	-0.0067	-2.5 to 2.5	Pass		
10	3.85			-10.571	-0.0057	-2.5 to 2.5	Pass		
30	3.85			-9.255	-0.0050	-2.5 to 2.5	Pass		
40	3.85			-14.305	-0.0077	-2.5 to 2.5	Pass		
50	3.85			-10.321	-0.0056	-2.5 to 2.5	Pass		
1880	20			3.27	-7.181	-0.0038	-2.5 to 2.5	Pass	
				3.85	-12.653	-0.0067	-2.5 to 2.5	Pass	
				4.43	-12.653	-0.0067	-2.5 to 2.5	Pass	
	-30	3.85	-13.261	-0.0071	-2.5 to 2.5	Pass			
	-20	3.85	-13.146	-0.0070	-2.5 to 2.5	Pass			
	-10	3.85	-9.177	-0.0049	-2.5 to 2.5	Pass			
	0	3.85	-12.603	-0.0067	-2.5 to 2.5	Pass			
	10	3.85	-8.984	-0.0048	-2.5 to 2.5	Pass			
	30	3.85	-10.965	-0.0058	-2.5 to 2.5	Pass			
	40	3.85	-12.496	-0.0066	-2.5 to 2.5	Pass			
	50	3.85	-12.767	-0.0068	-2.5 to 2.5	Pass			
	1907.6	20	3.27	1.252	0.0007	-2.5 to 2.5	Pass		
			3.85	-5.078	-0.0027	-2.5 to 2.5	Pass		
			4.43	-9.463	-0.0050	-2.5 to 2.5	Pass		
-30		3.85	-5.057	-0.0027	-2.5 to 2.5	Pass			
-20		3.85	4.156	0.0022	-2.5 to 2.5	Pass			
-10		3.85	-2.990	-0.0016	-2.5 to 2.5	Pass			
0		3.85	-9.620	-0.0050	-2.5 to 2.5	Pass			
10		3.85	1.824	0.0010	-2.5 to 2.5	Pass			
30		3.85	-11.909	-0.0062	-2.5 to 2.5	Pass			
40		3.85	-0.787	-0.0004	-2.5 to 2.5	Pass			
50		3.85	-1.202	-0.0006	-2.5 to 2.5	Pass			

### 3. Modulation Characteristics

#### 3.1 Band2

##### 3.1.1 Test Result

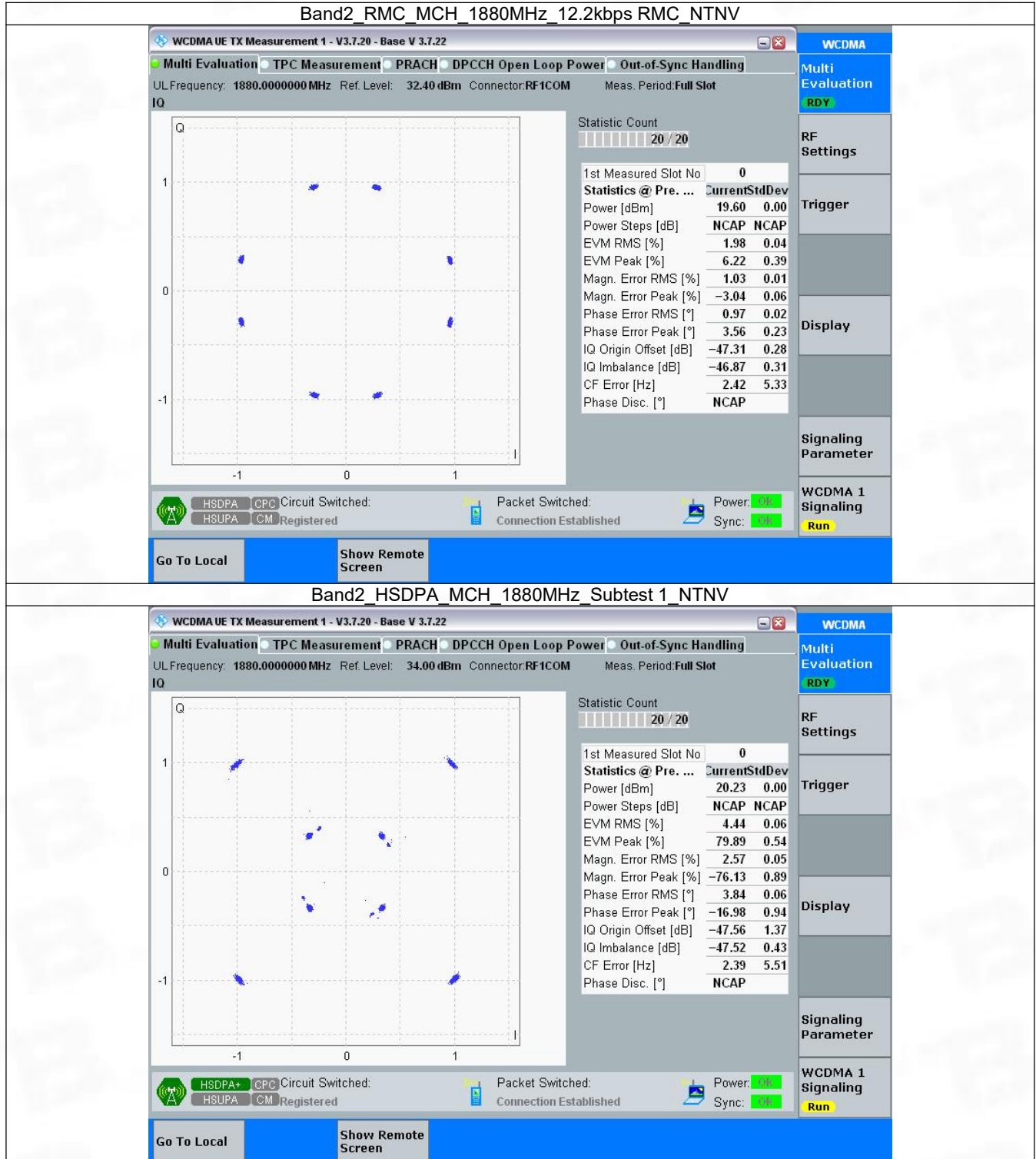
Band: 2						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	

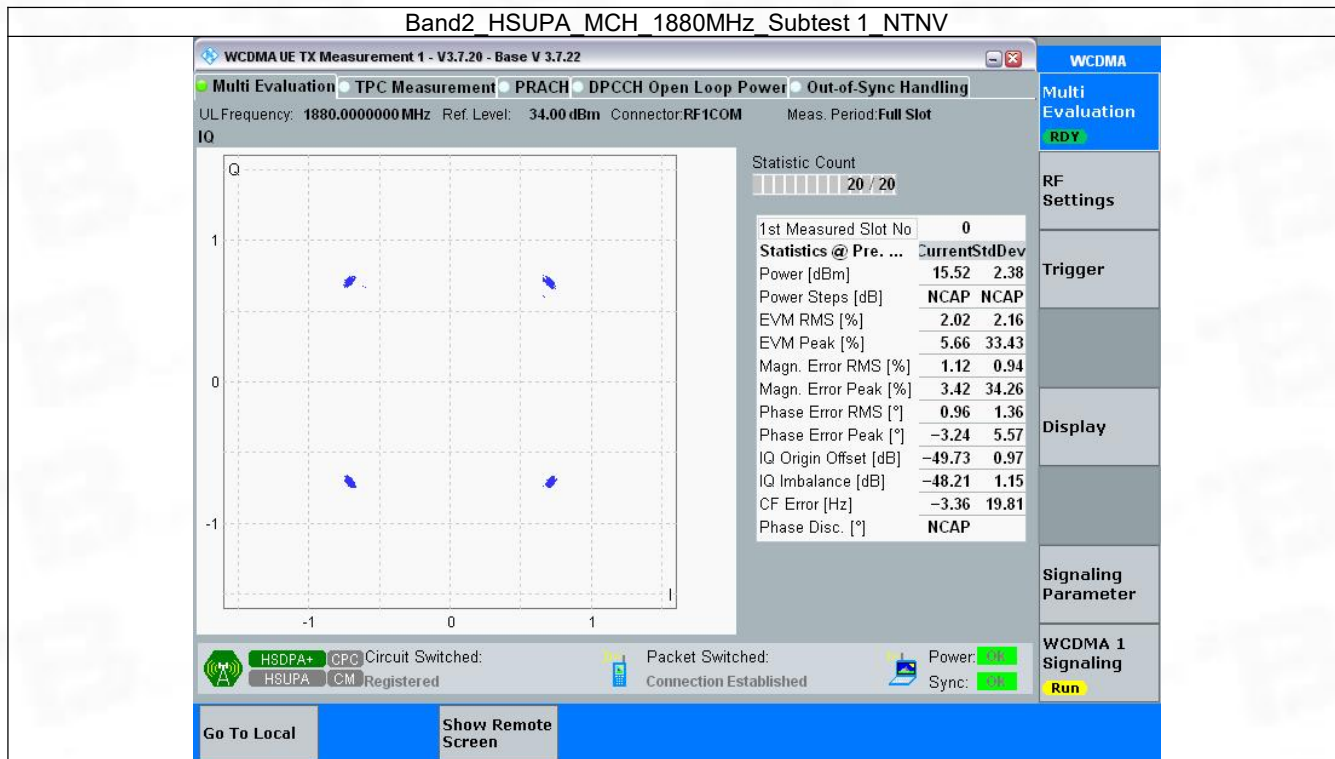


Test Report Number: BTF240419R00204

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







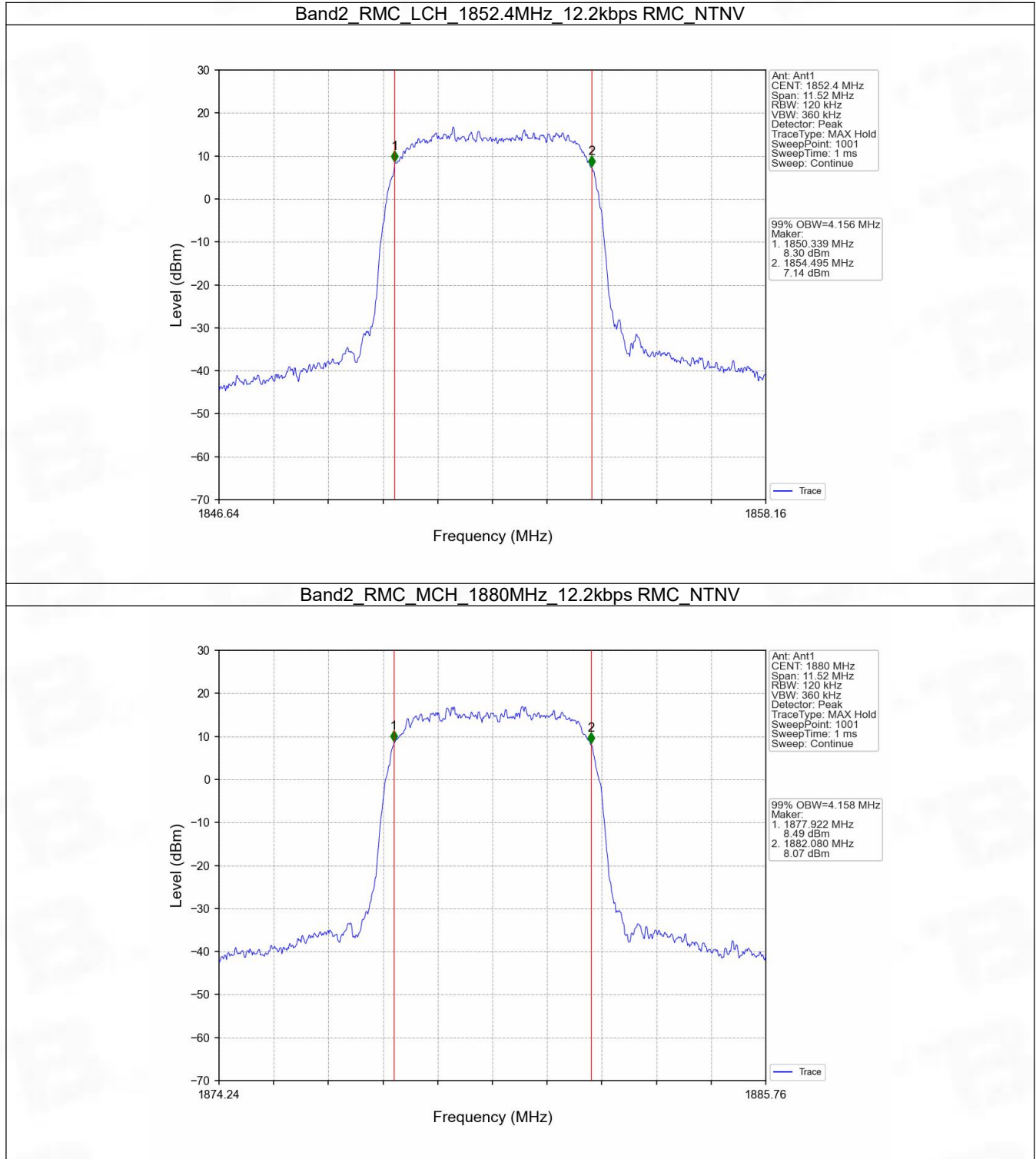
#### 4. 99% & 26dB Bandwidth

##### 4.1 Band2\_OBW

##### 4.1.1 Test Result

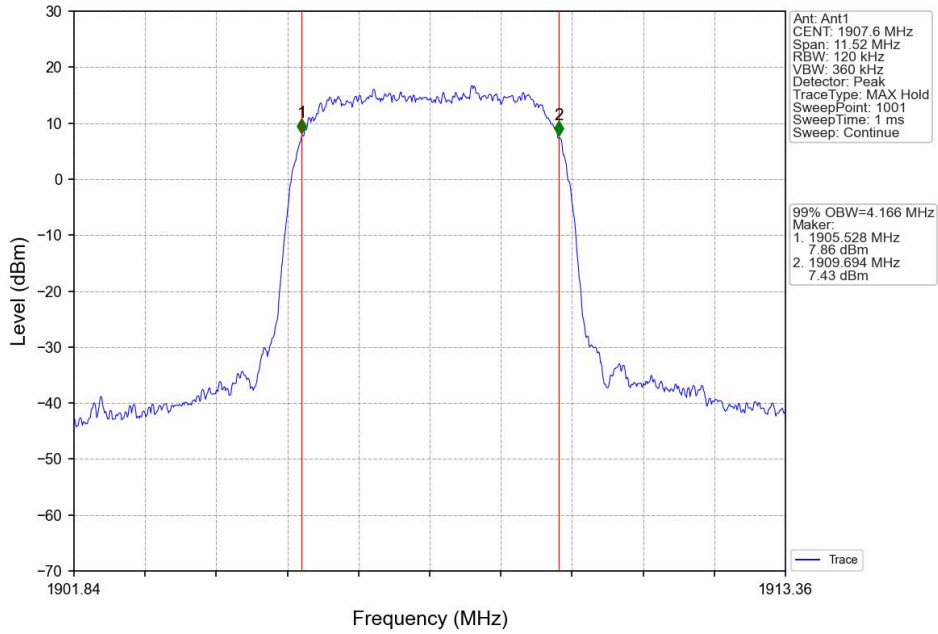
Band: 2						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.156	/	Pass
			1880	4.158	/	Pass
			1907.6	4.166	/	Pass
	HSDPA	Subtest 1	1852.4	4.171	/	Pass
			1880	4.154	/	Pass
			1907.6	4.147	/	Pass
	HSUPA	Subtest 1	1852.4	4.165	/	Pass
			1880	4.165	/	Pass
			1907.6	4.141	/	Pass

4.1.2 Test Graph

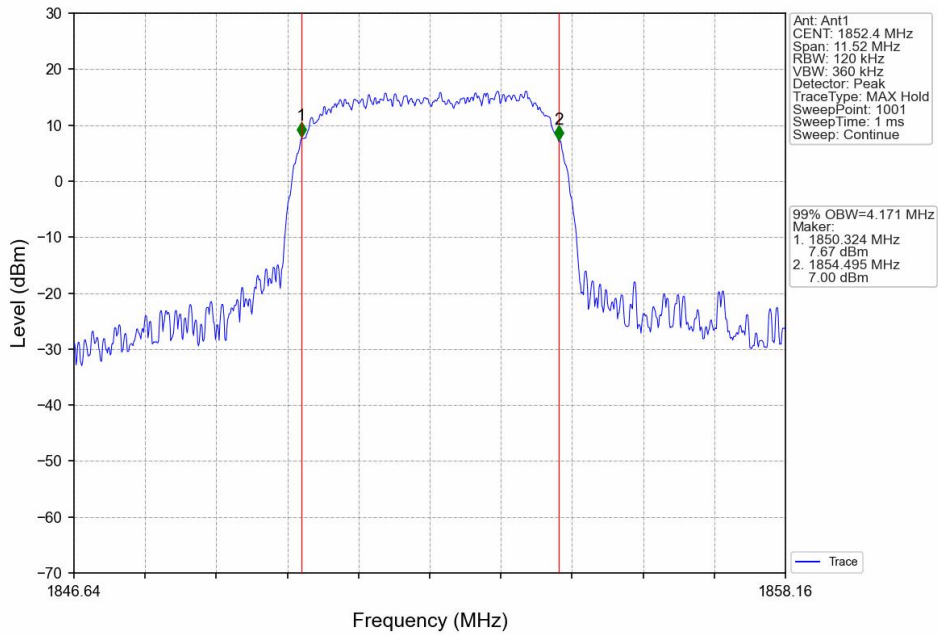




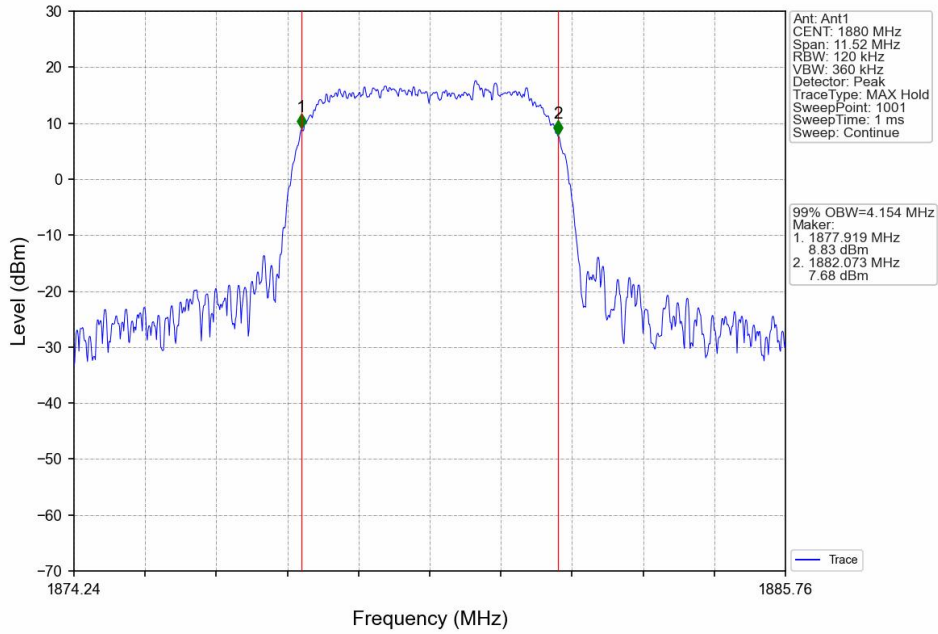
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps\_RMC\_NTNV



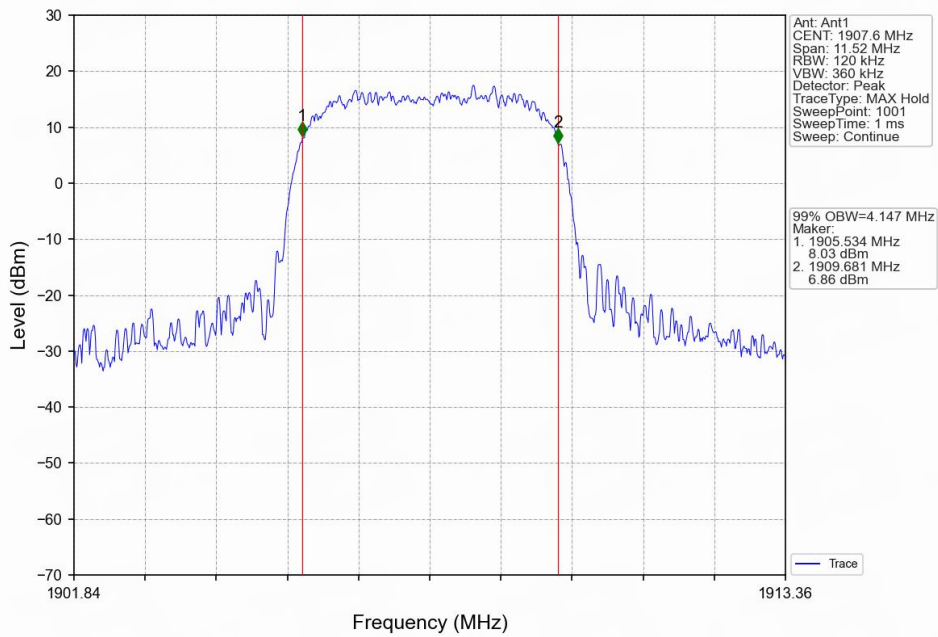
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



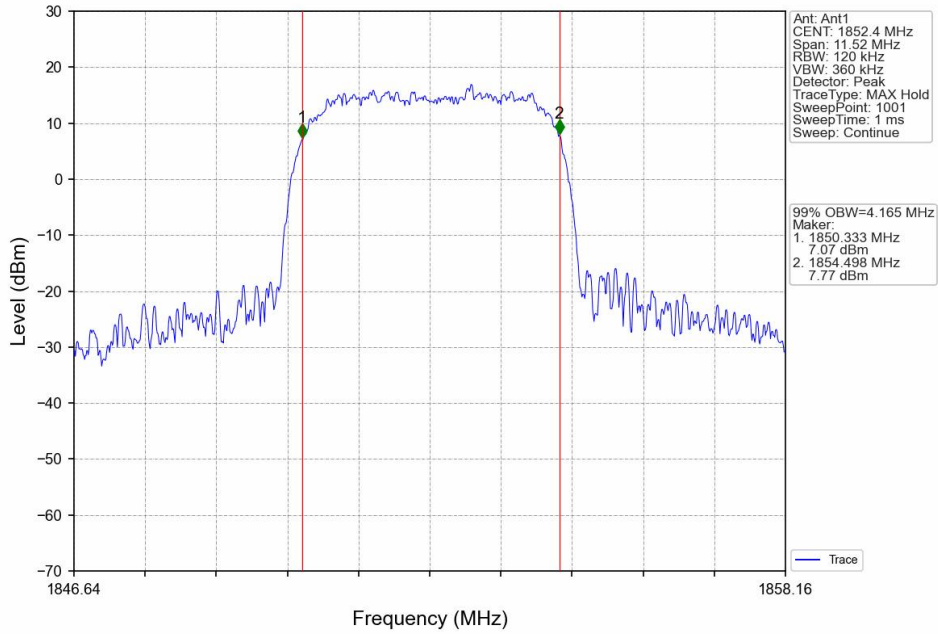
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



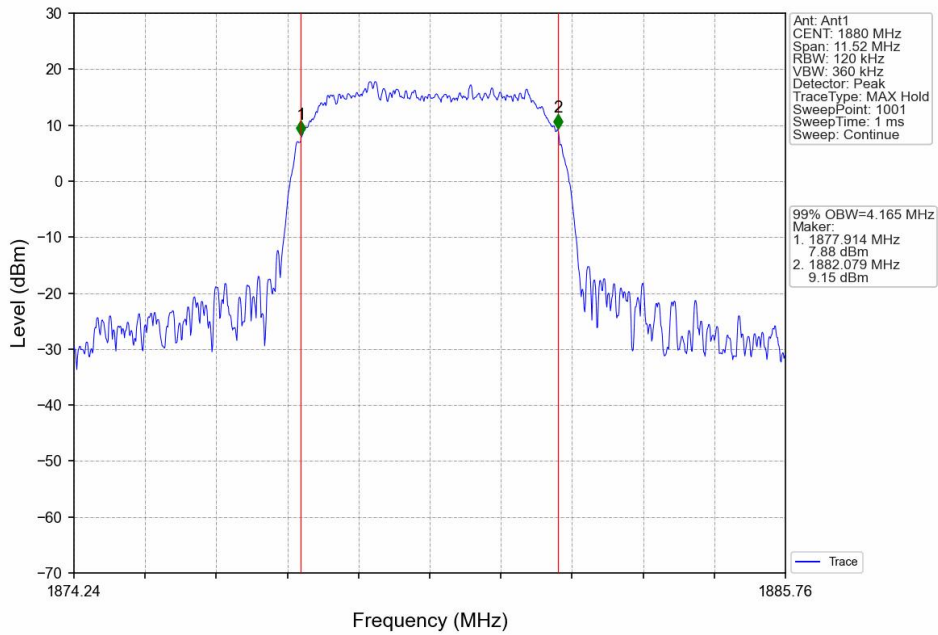
Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



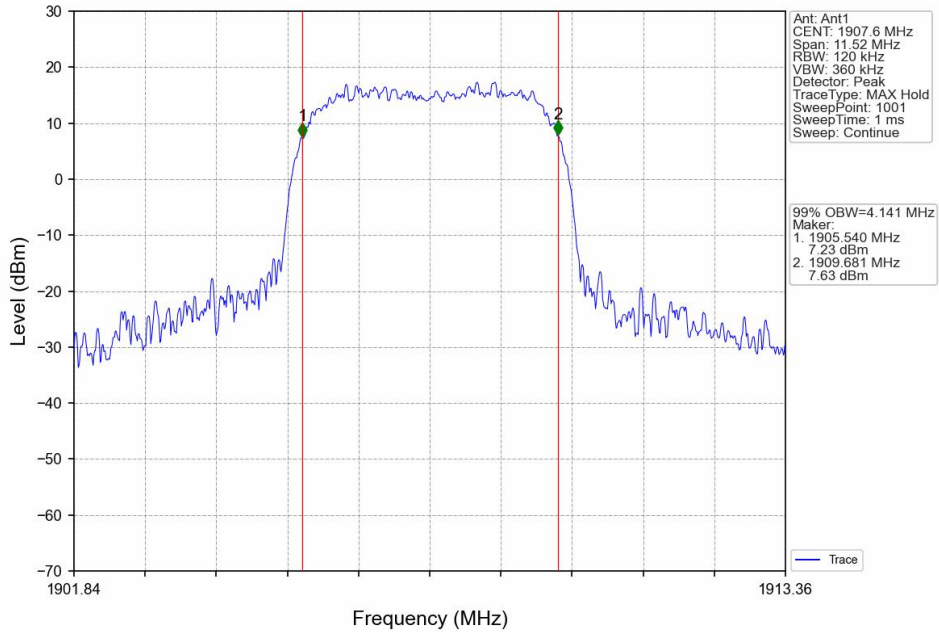
Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



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



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

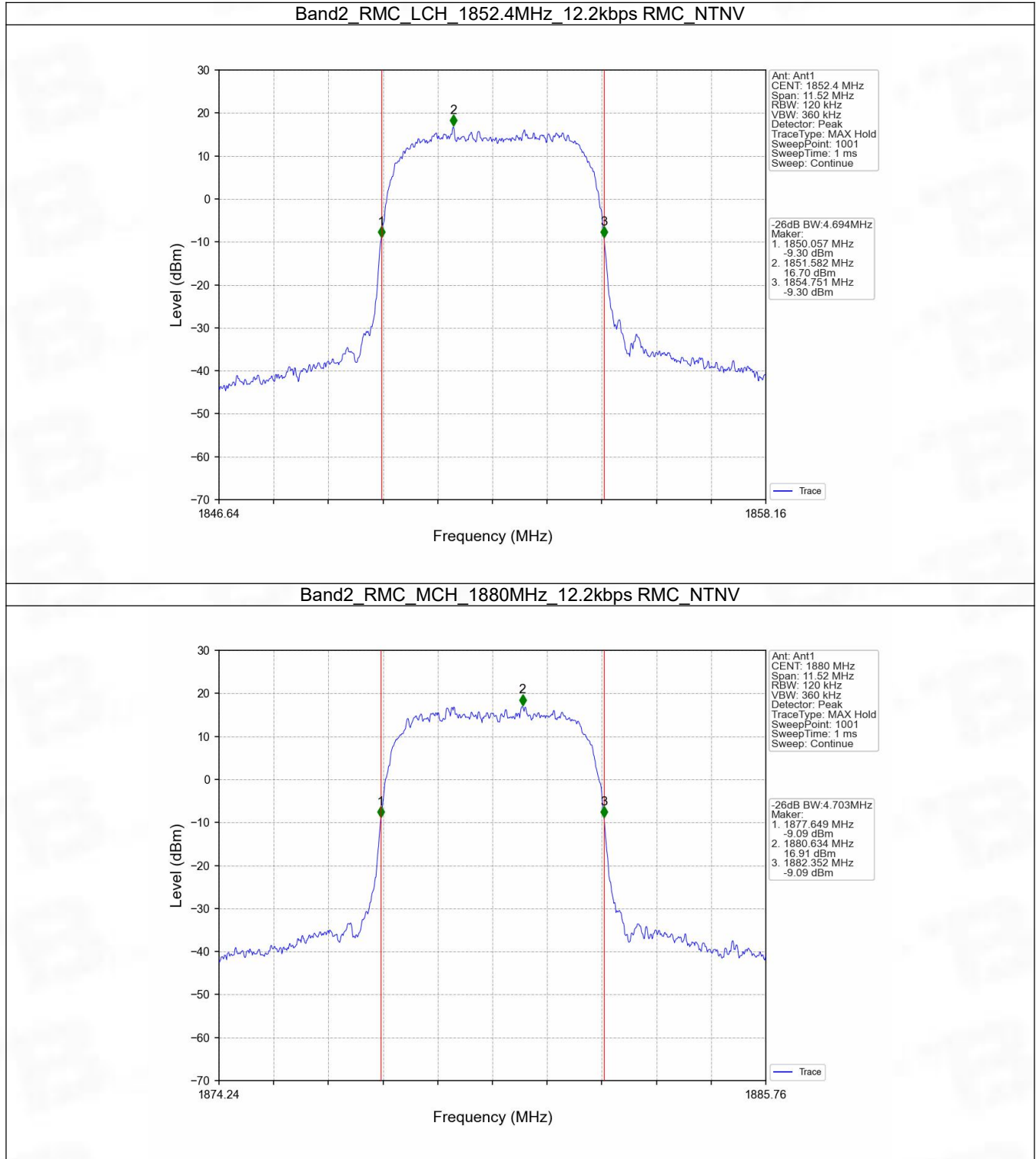


## 4.2 Band2\_XDB

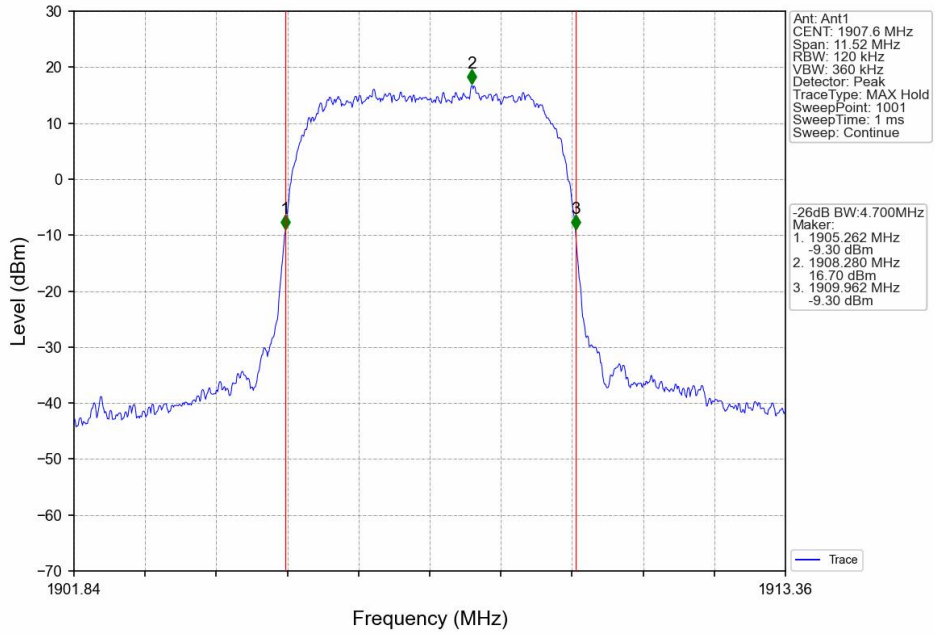
### 4.2.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.694	/	Pass
			1880	4.703	/	Pass
			1907.6	4.700	/	Pass
	HSDPA	Subtest 1	1852.4	4.722	/	Pass
			1880	4.689	/	Pass
			1907.6	4.698	/	Pass
	HSUPA	Subtest 1	1852.4	4.713	/	Pass
			1880	4.690	/	Pass
			1907.6	4.693	/	Pass

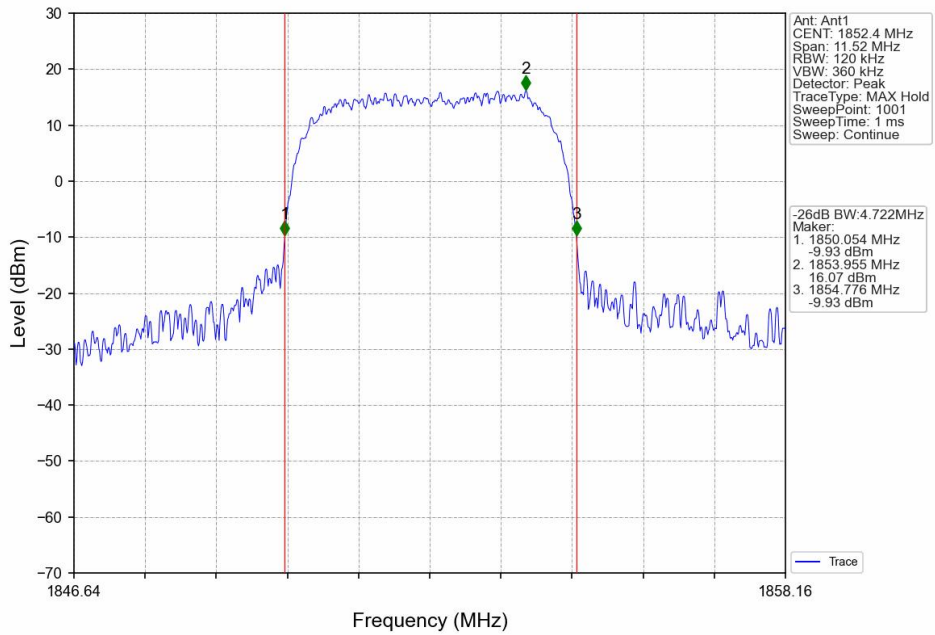
4.2.2 Test Graph



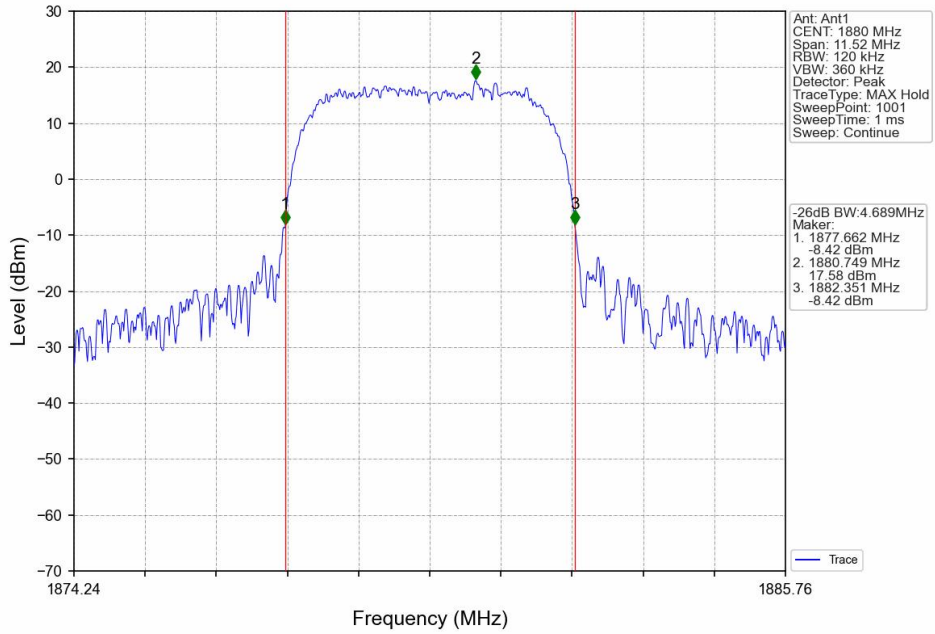
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



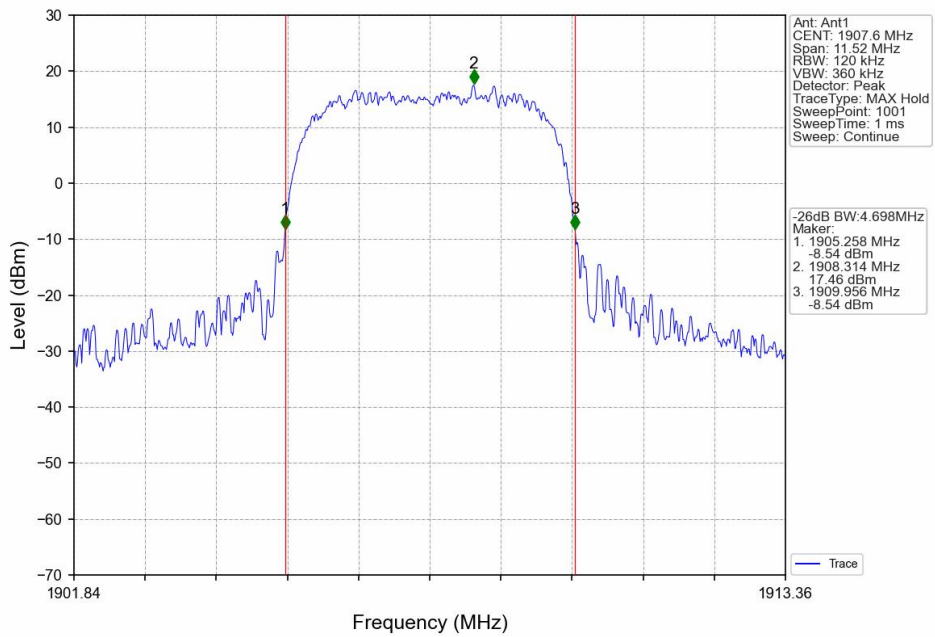
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



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

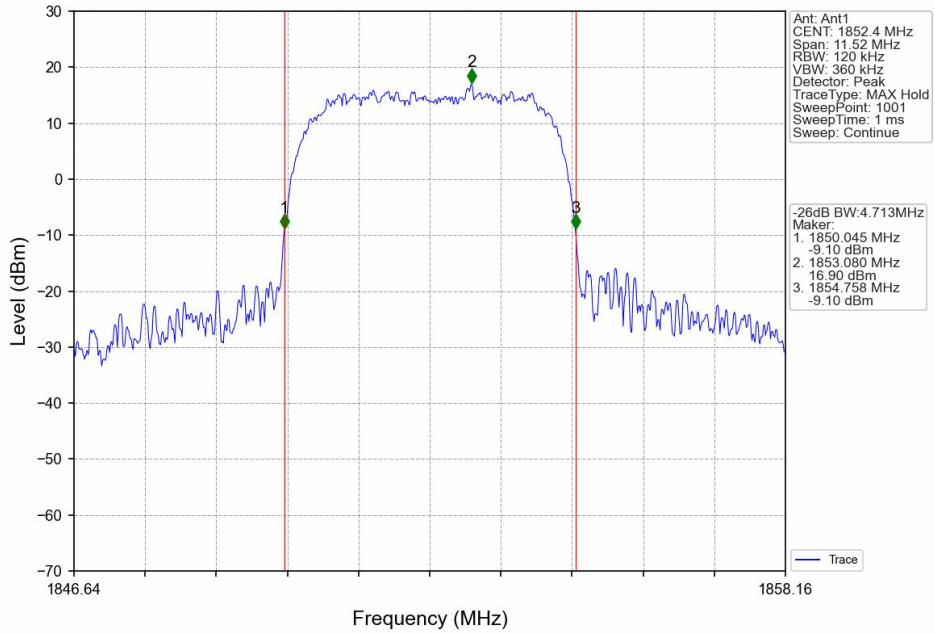


Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV

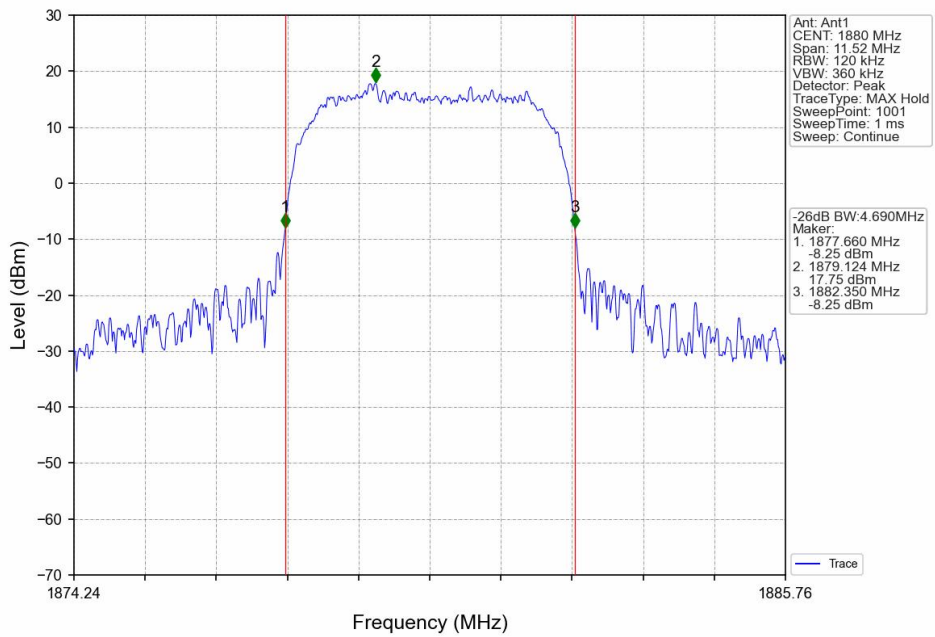


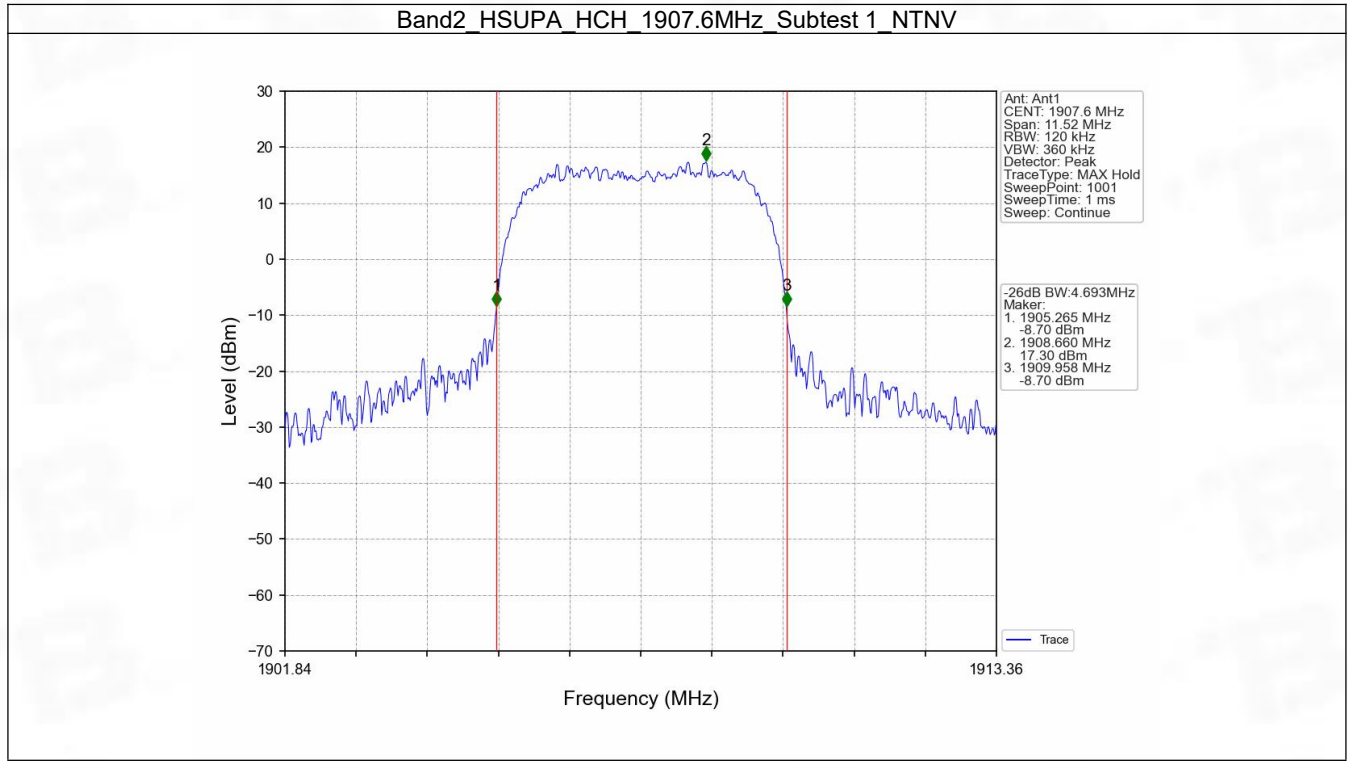


Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



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





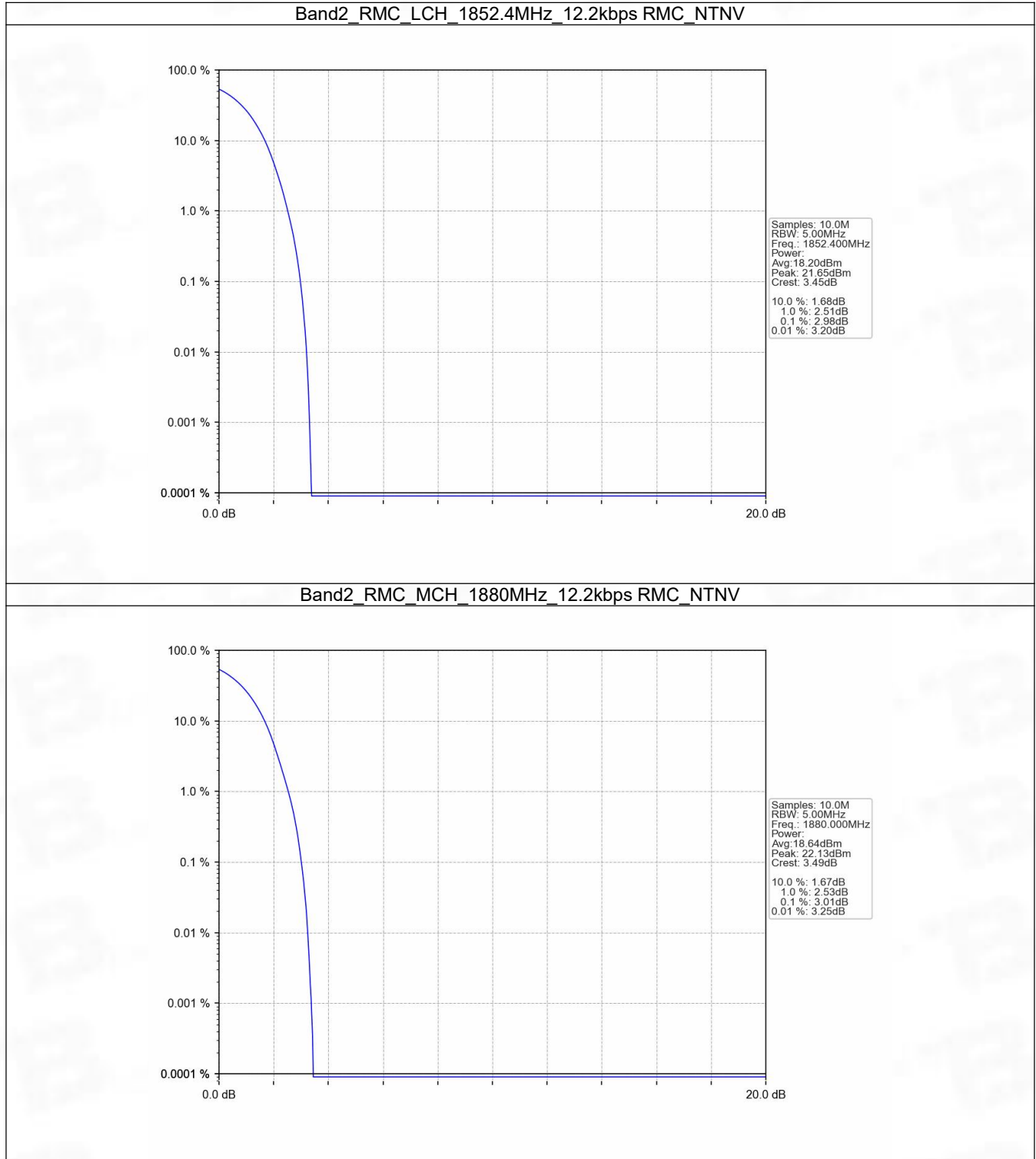
## 5. Peak-Average Ratio

### 5.1 Band2

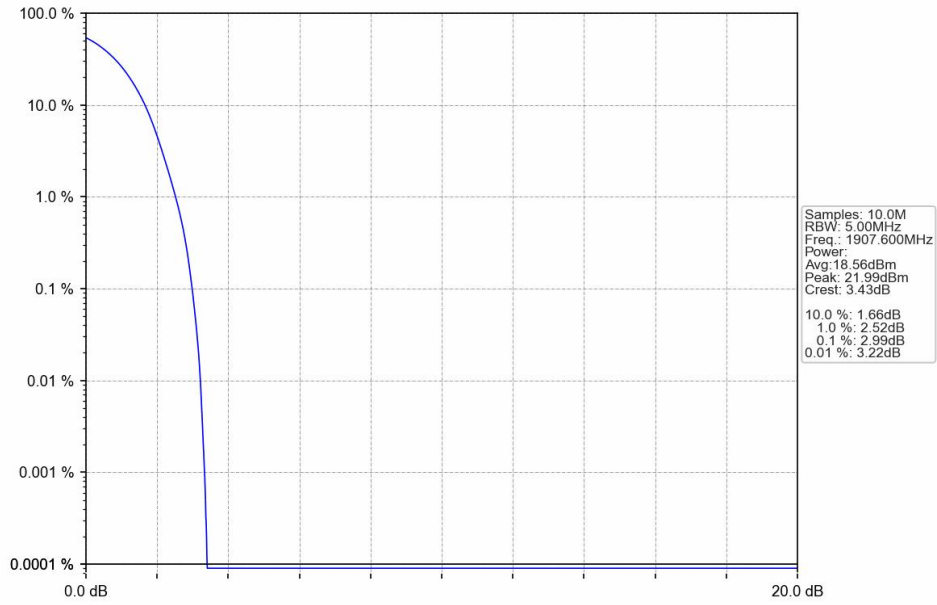
#### 5.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.98	<=13	Pass
			1880	3.01	<=13	Pass
			1907.6	2.99	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.68	<=13	Pass
			1880	5.86	<=13	Pass
			1907.6	5.61	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.64	<=13	Pass
			1880	5.65	<=13	Pass
			1907.6	5.62	<=13	Pass

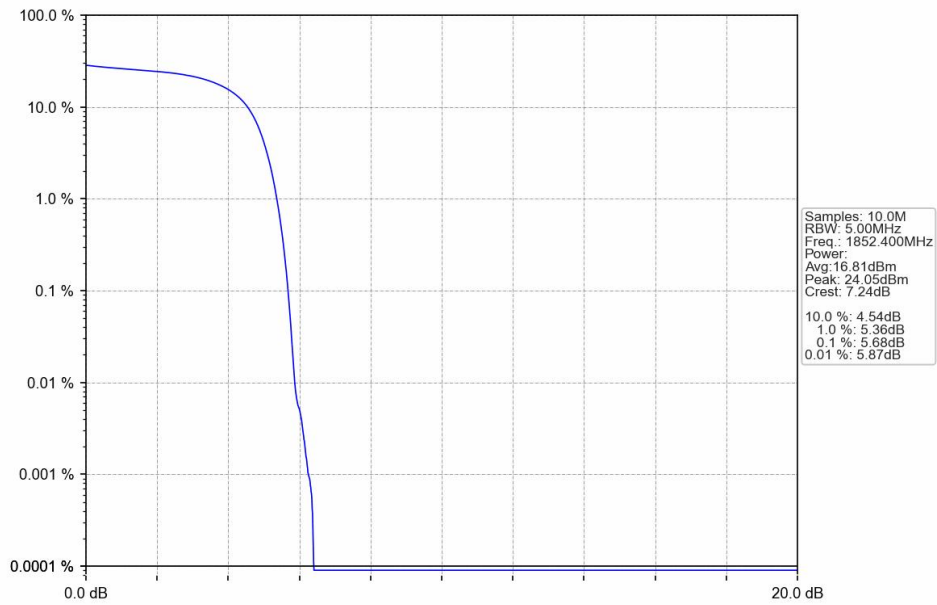
### 5.1.2 Test Graph



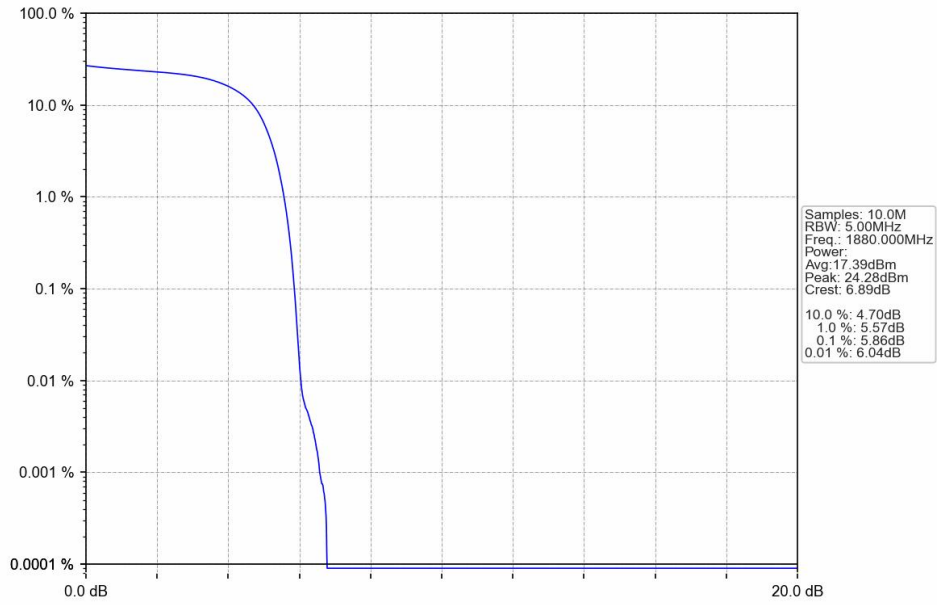
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps\_RMC\_NTNV



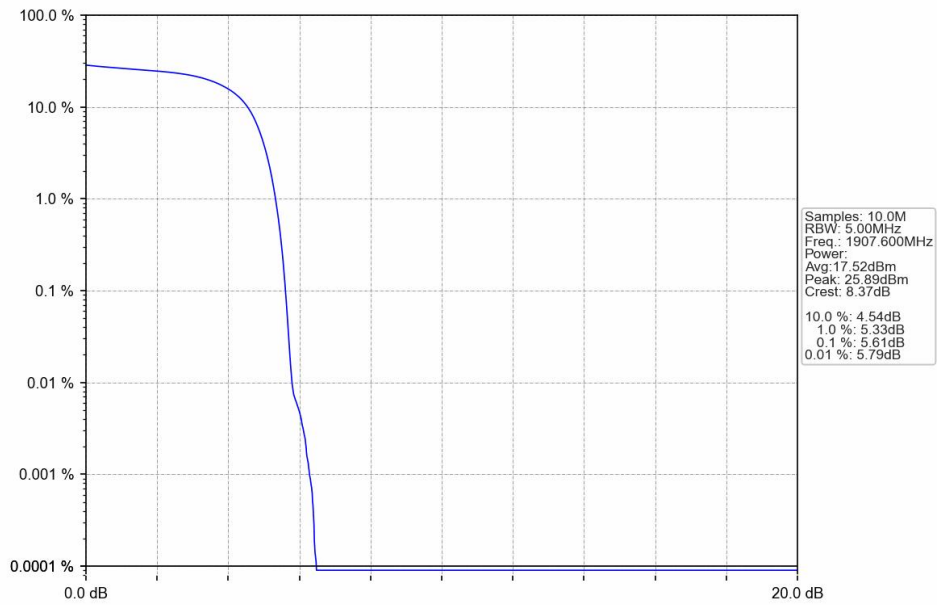
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



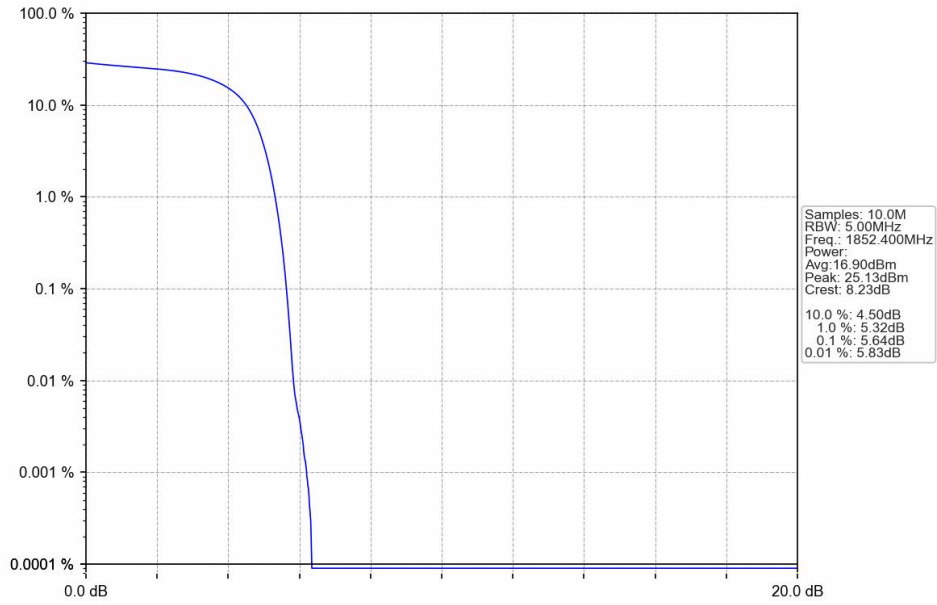
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



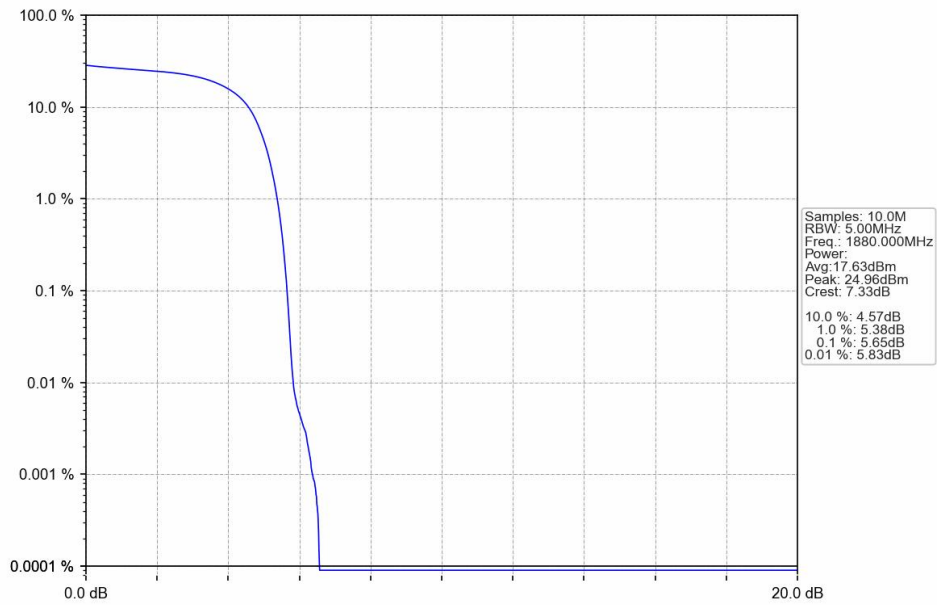
Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



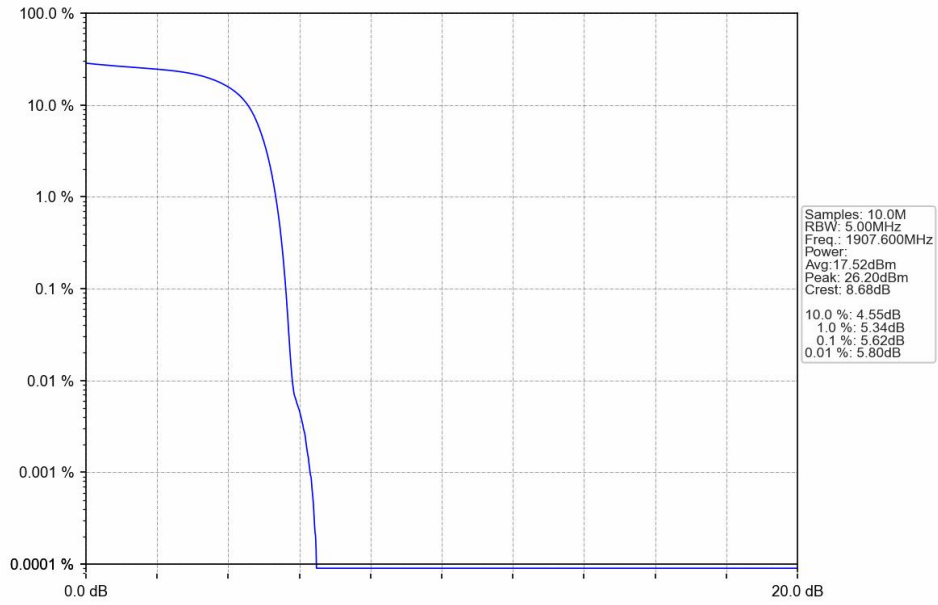
Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



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



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







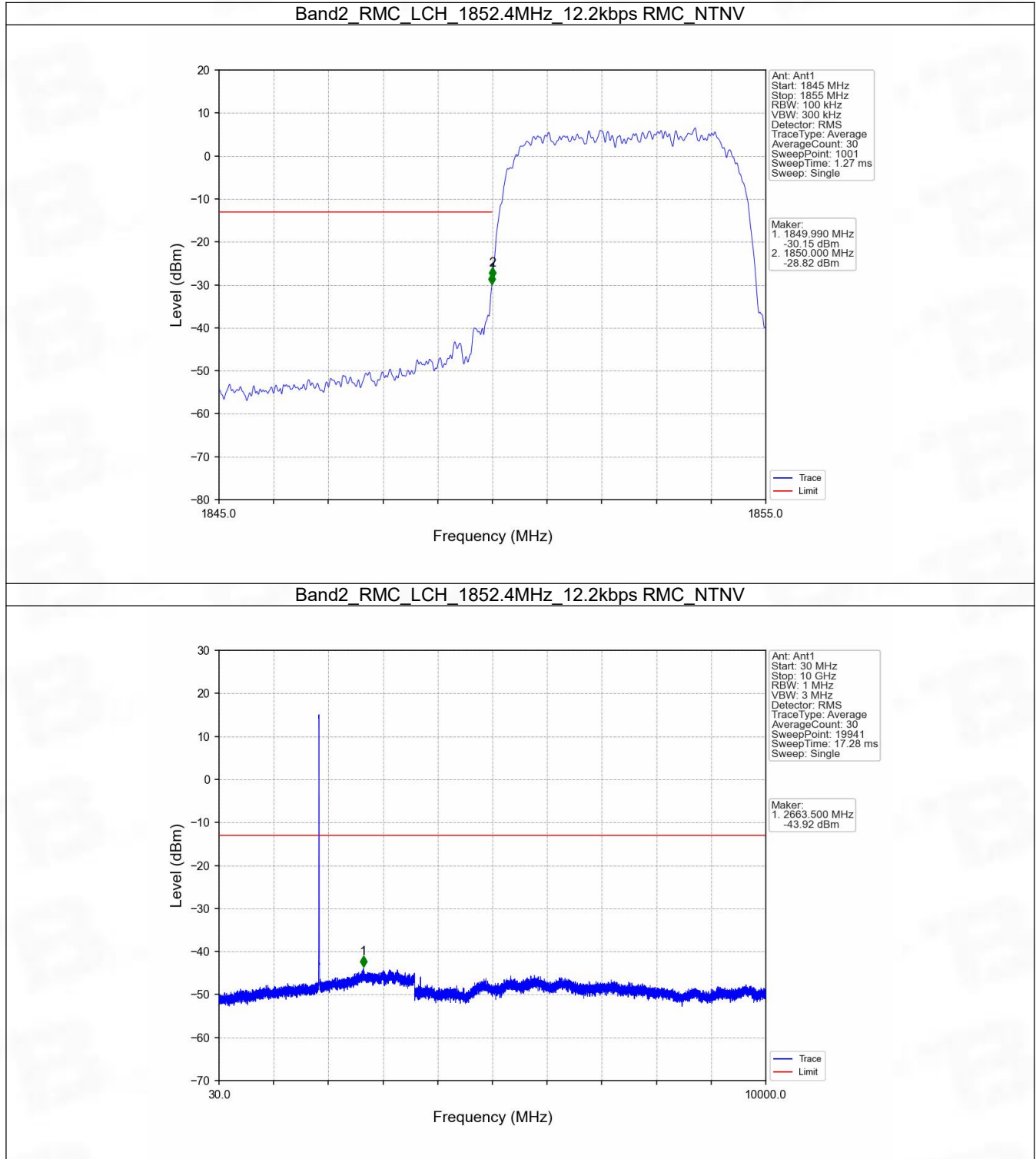
## 6. Spurious Emission

### 6.1 Band2

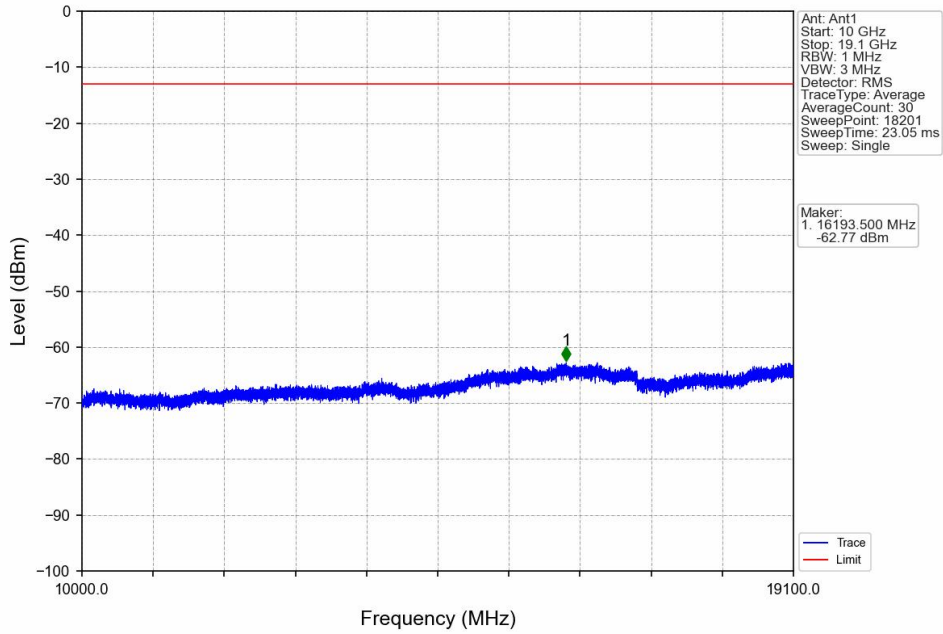
#### 6.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	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

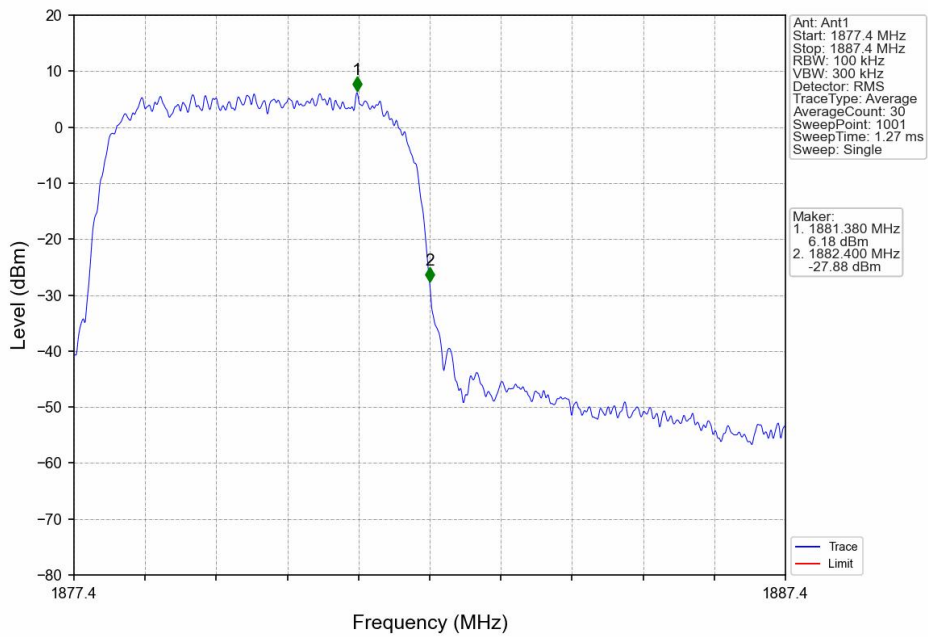
### 6.1.2 Test Graph



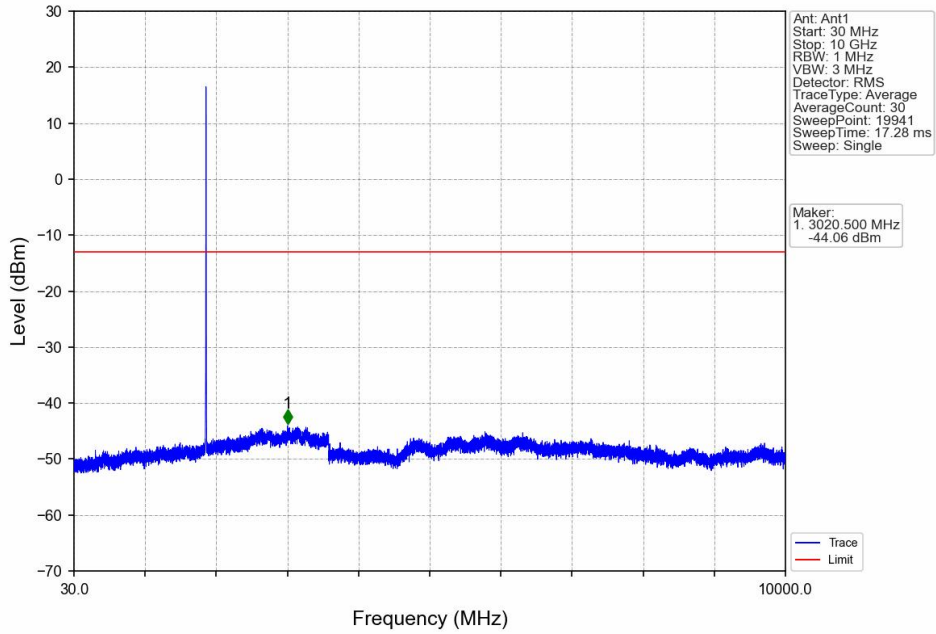
Band2\_RMC\_LCH\_1852.4MHz\_12.2kbps RMC\_NTNV



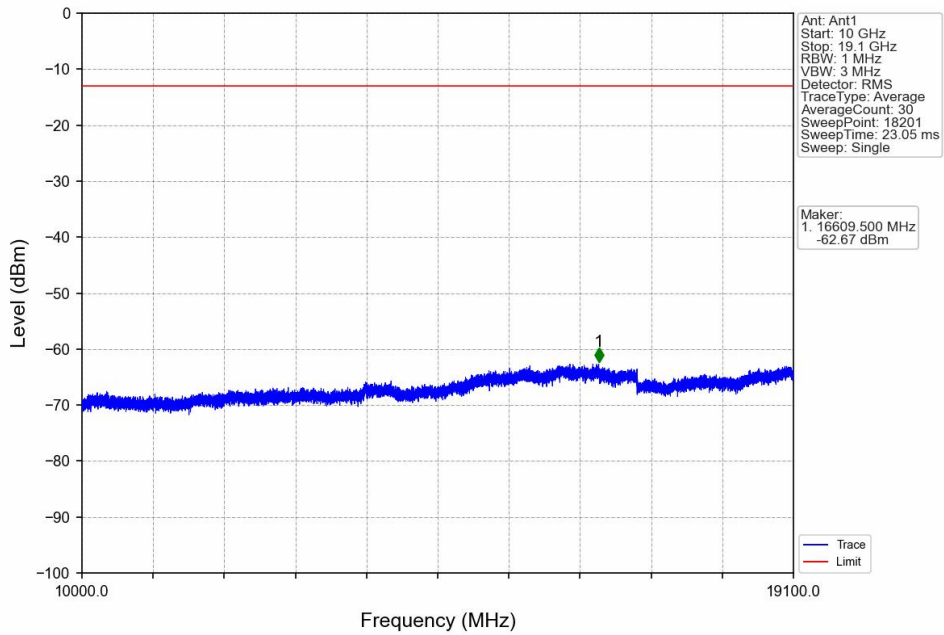
Band2\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



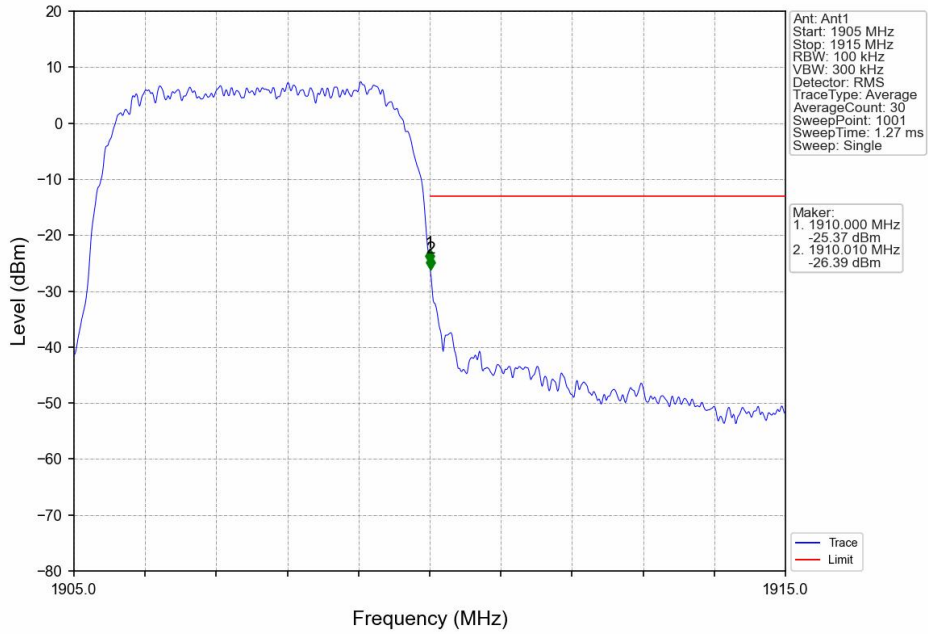
Band2\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



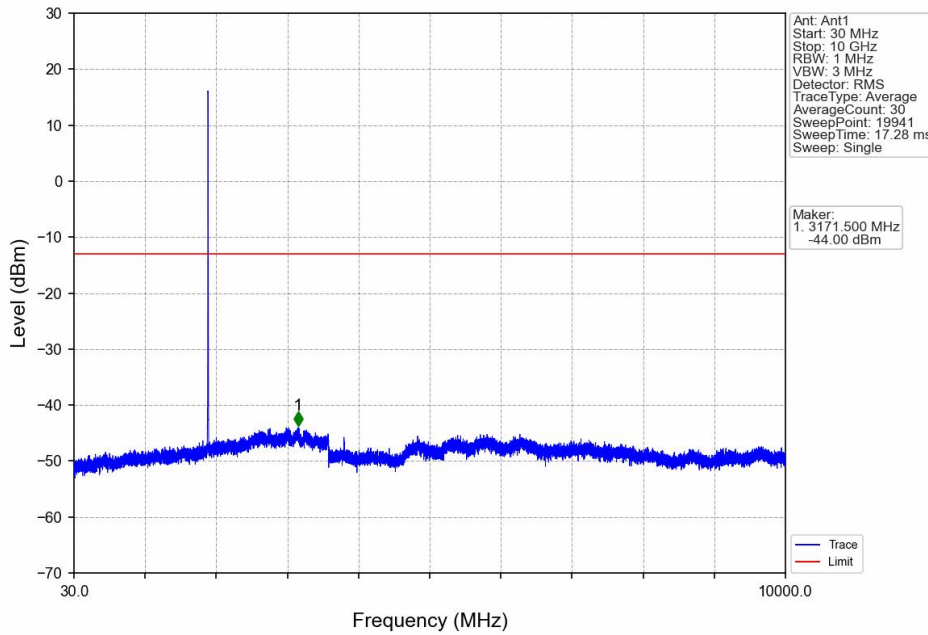
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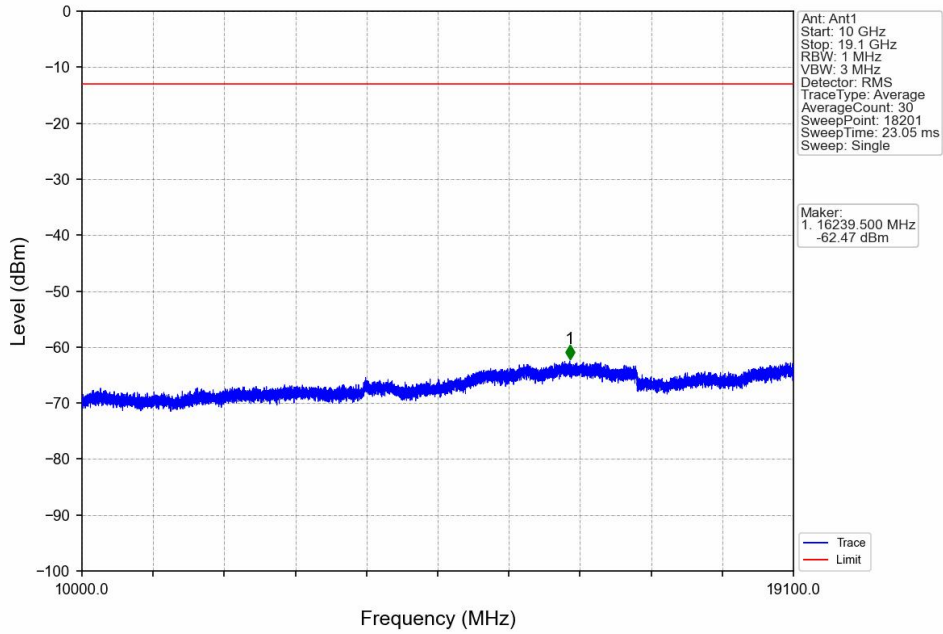
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps\_RMC\_NTNV



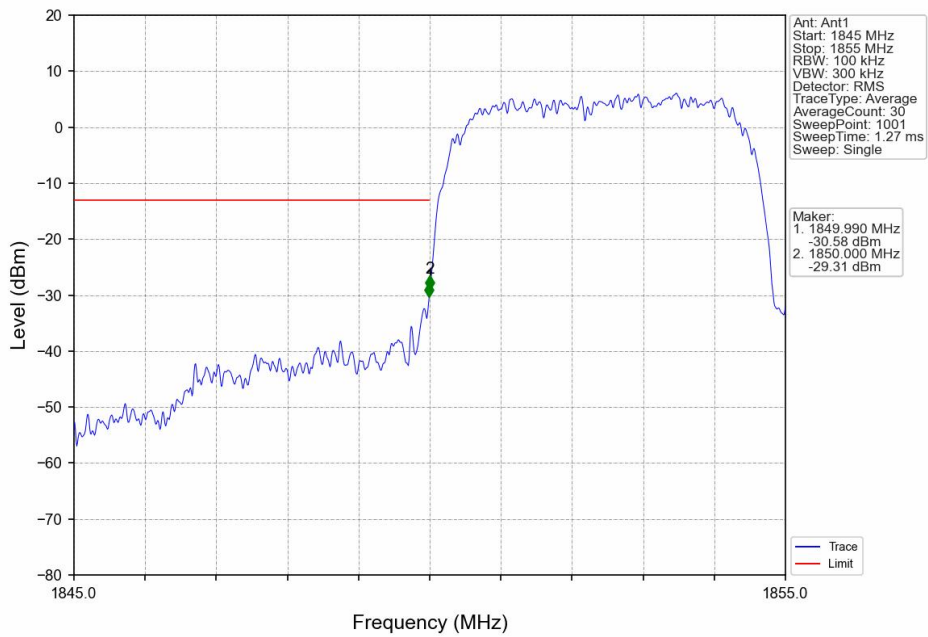
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps\_RMC\_NTNV



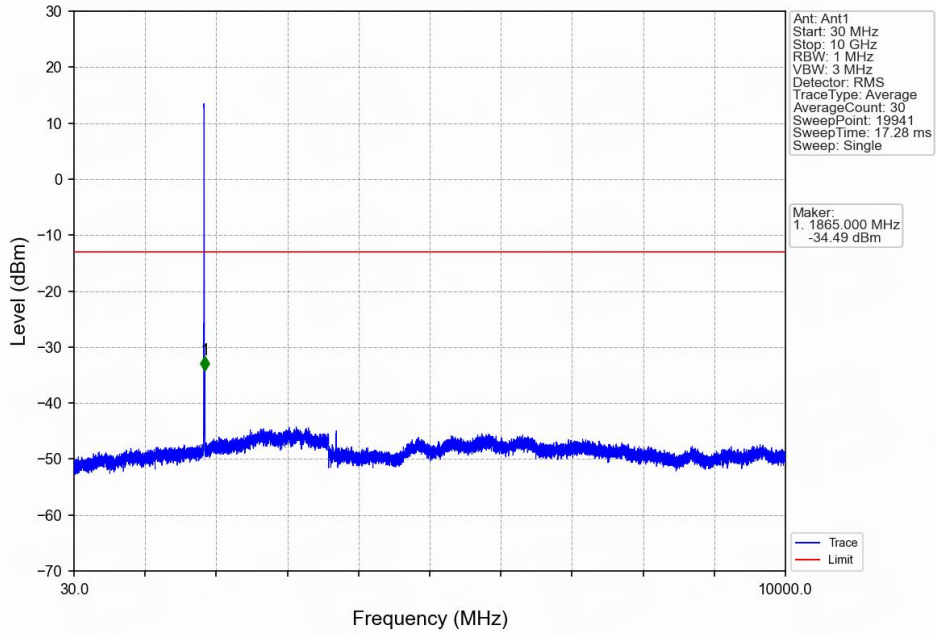
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



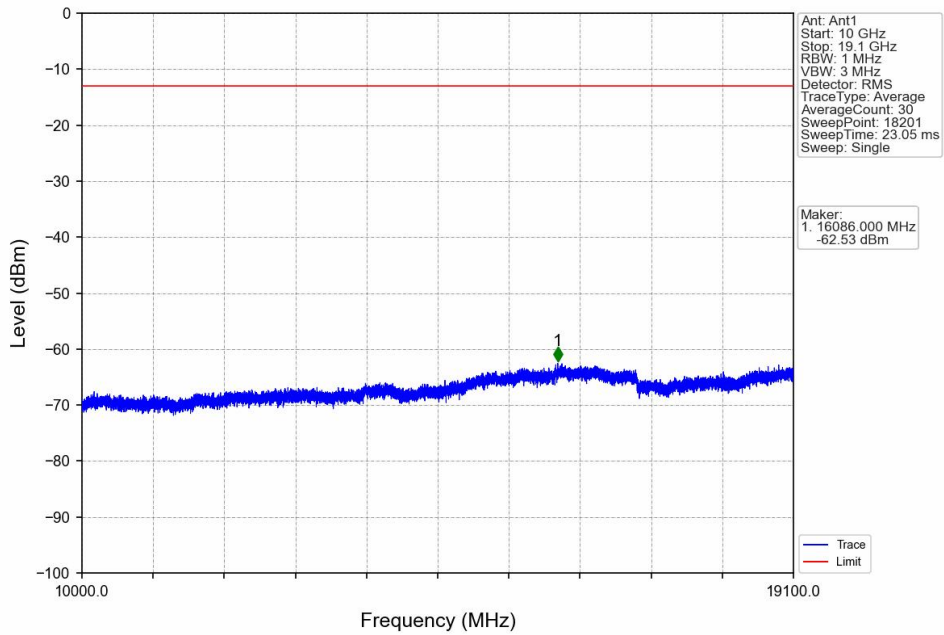
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



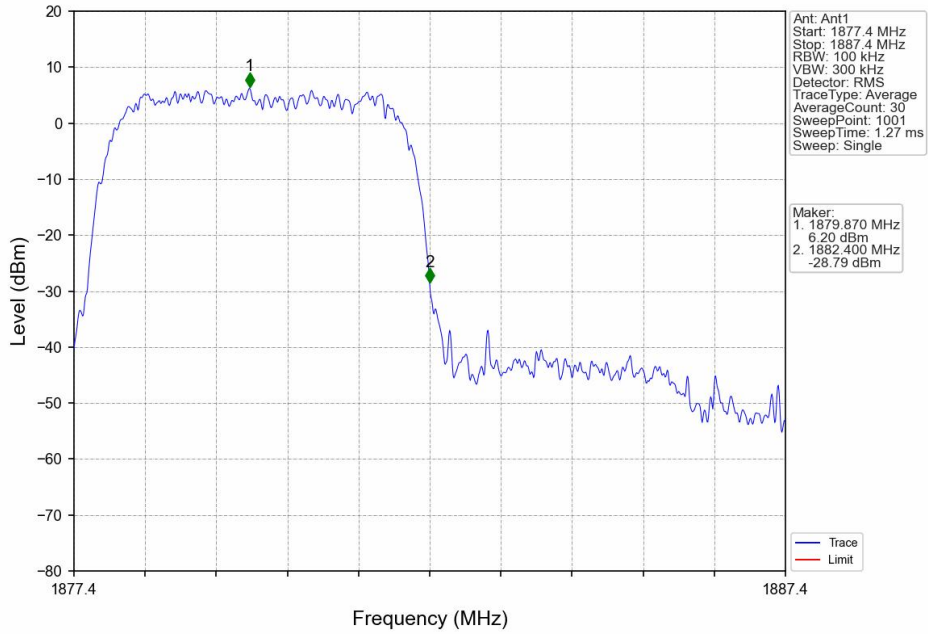
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



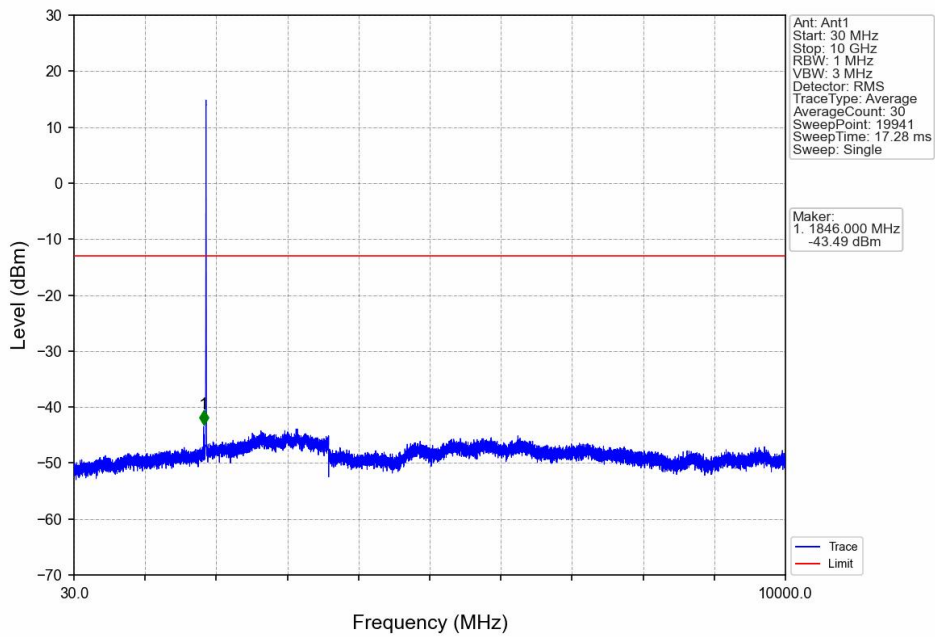
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



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

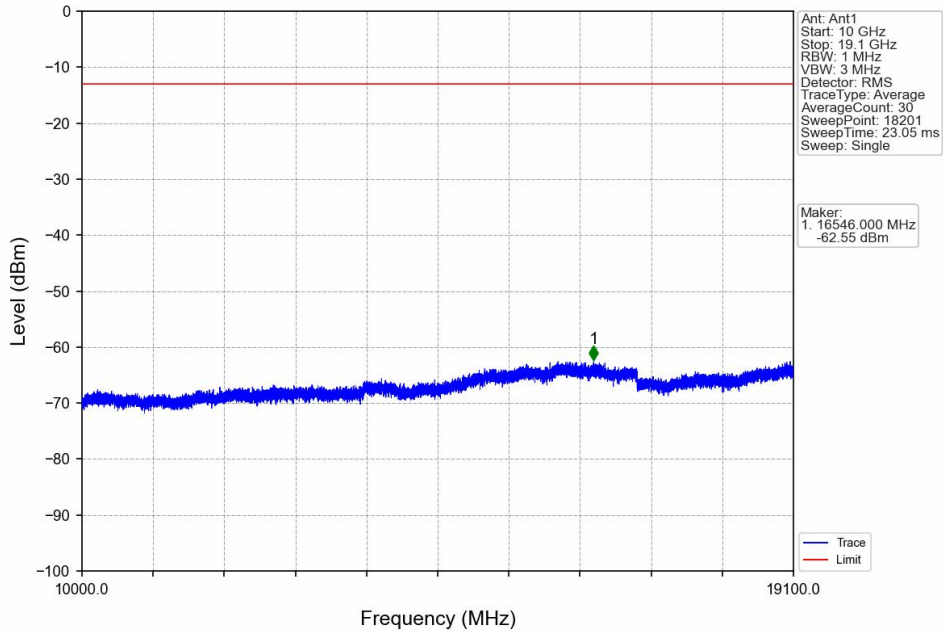


Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV

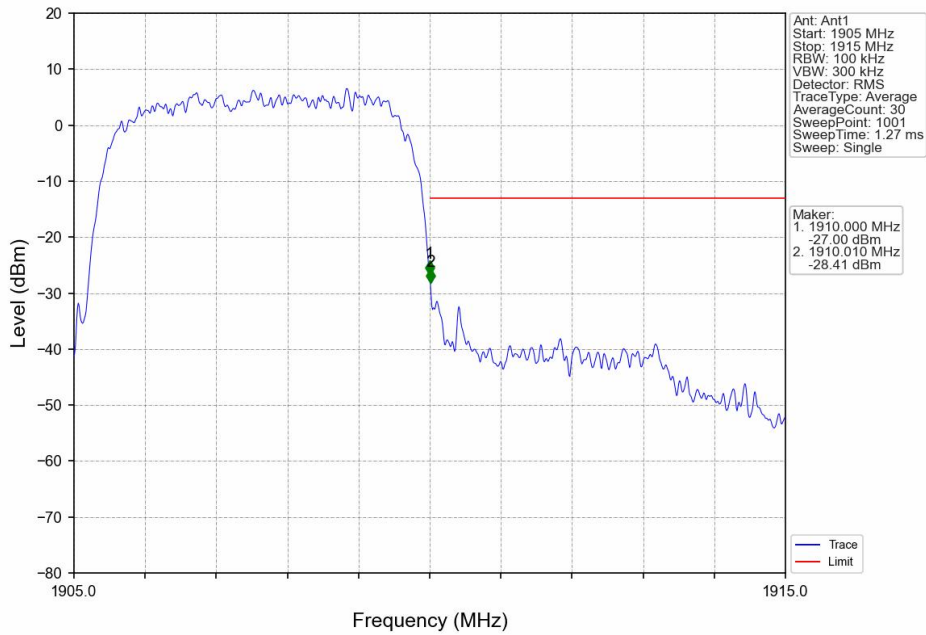




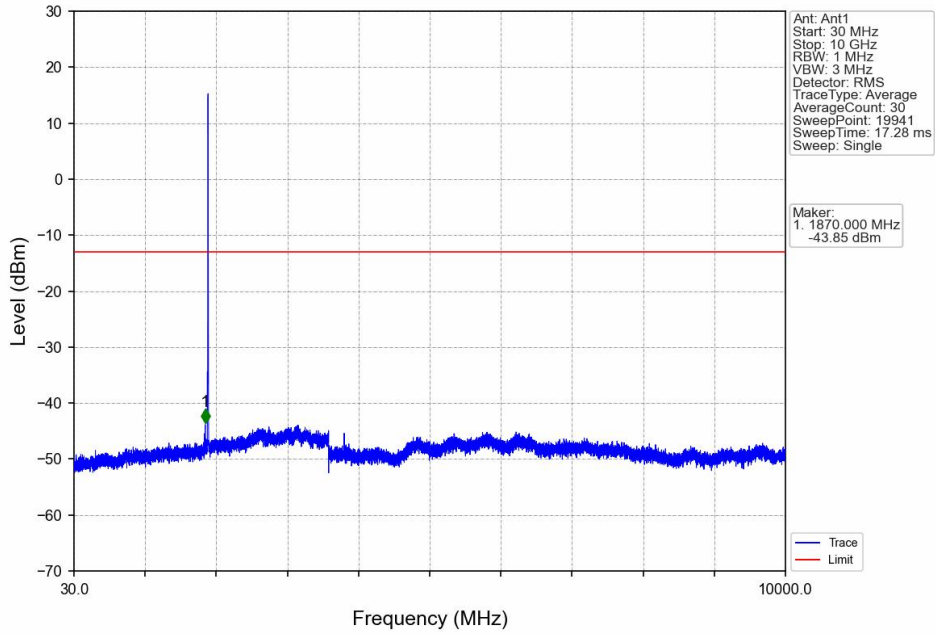
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



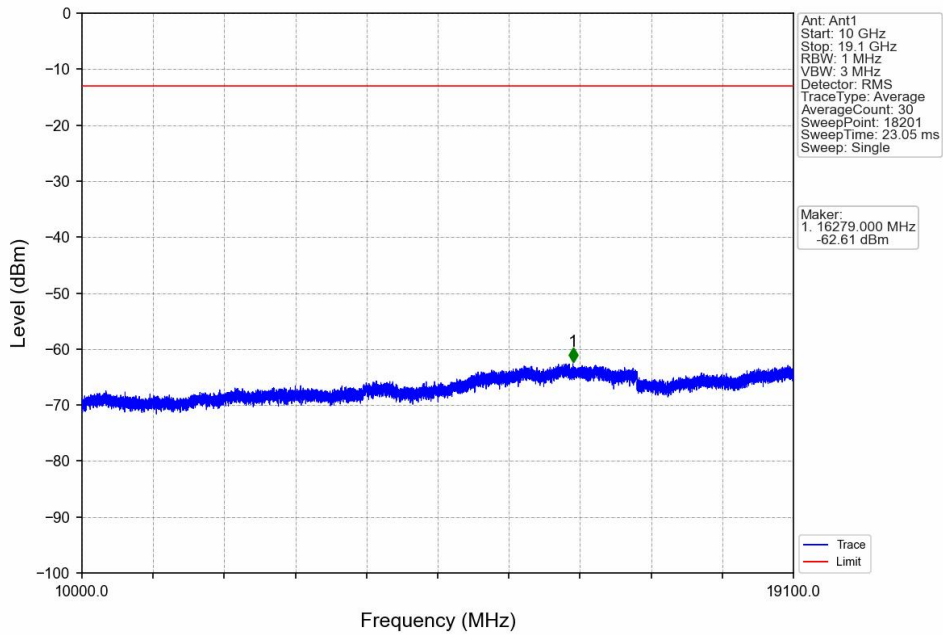
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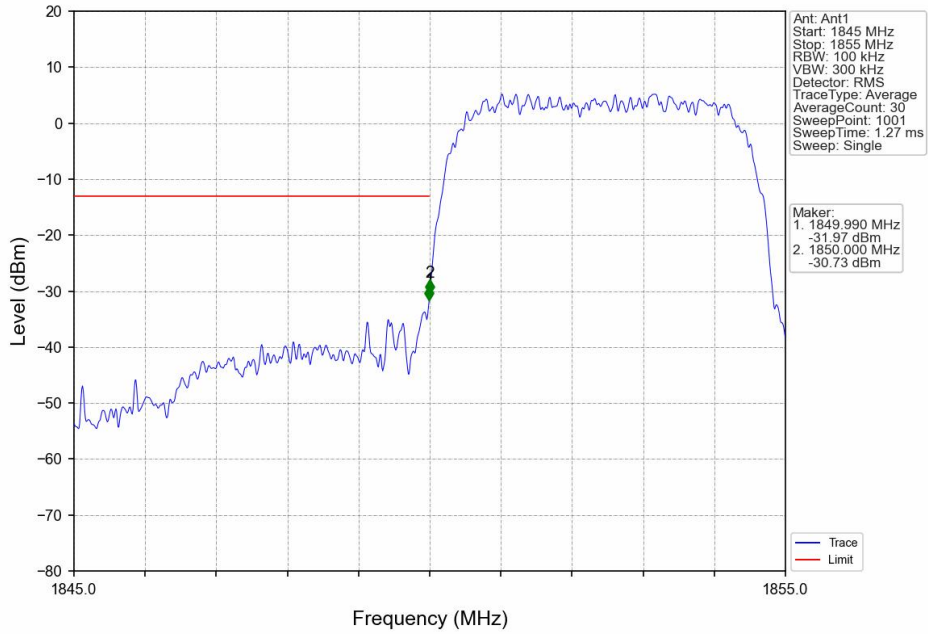
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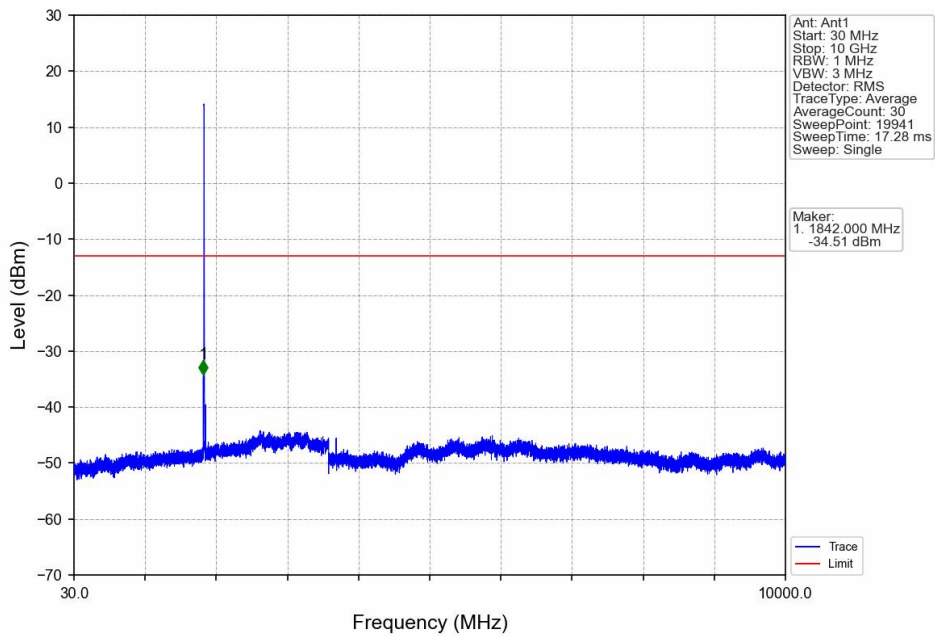
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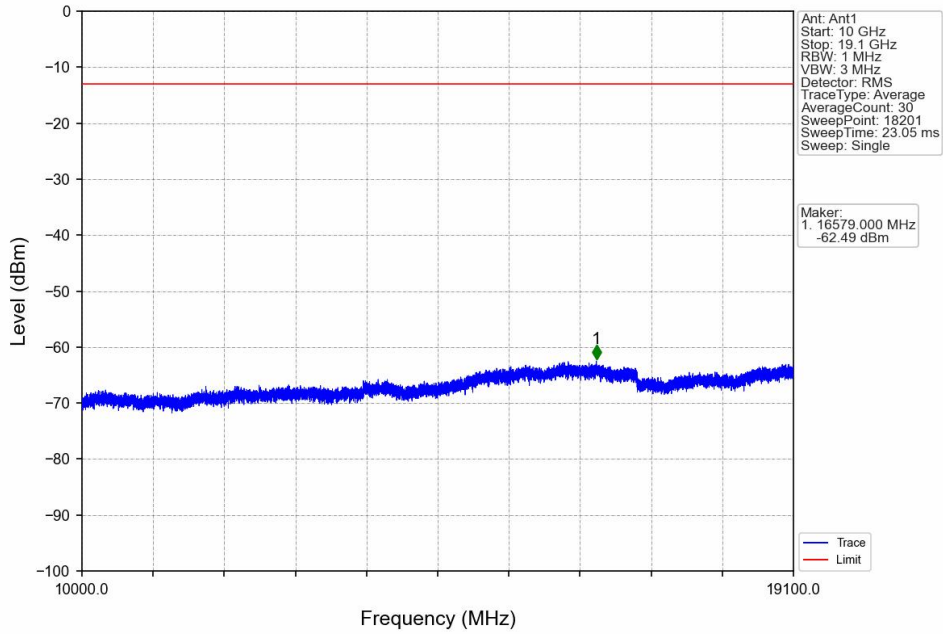
Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



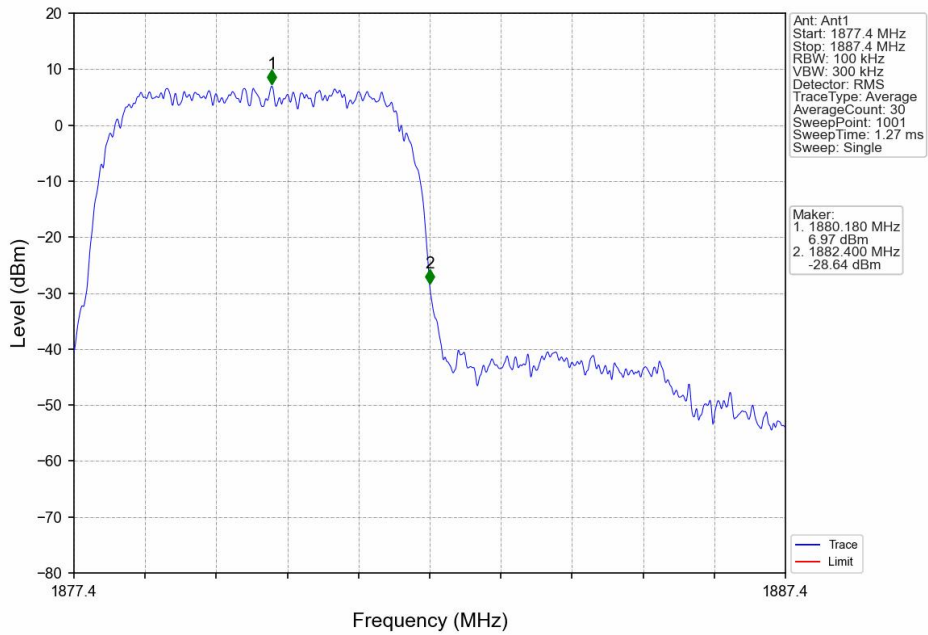
Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



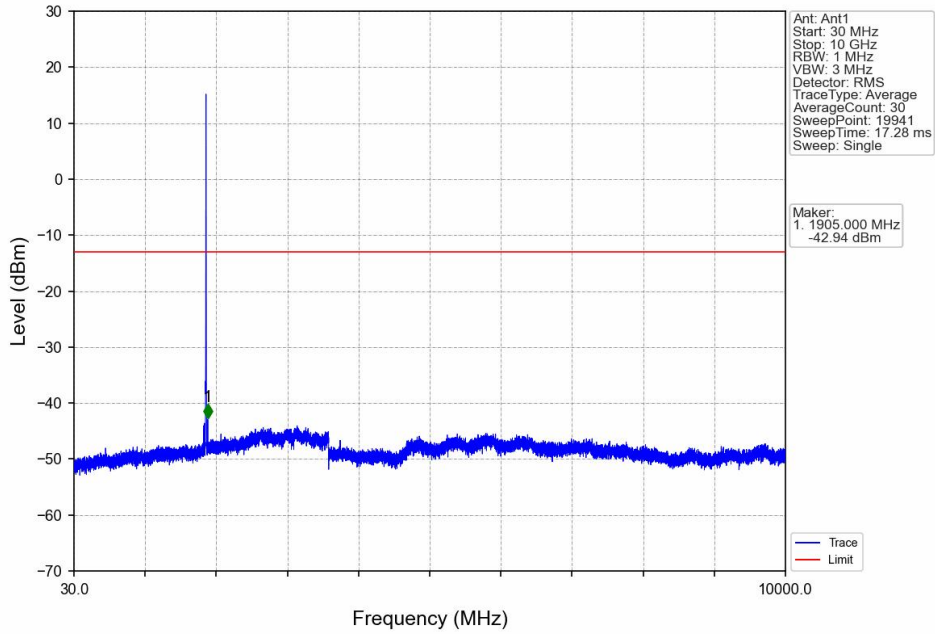
Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



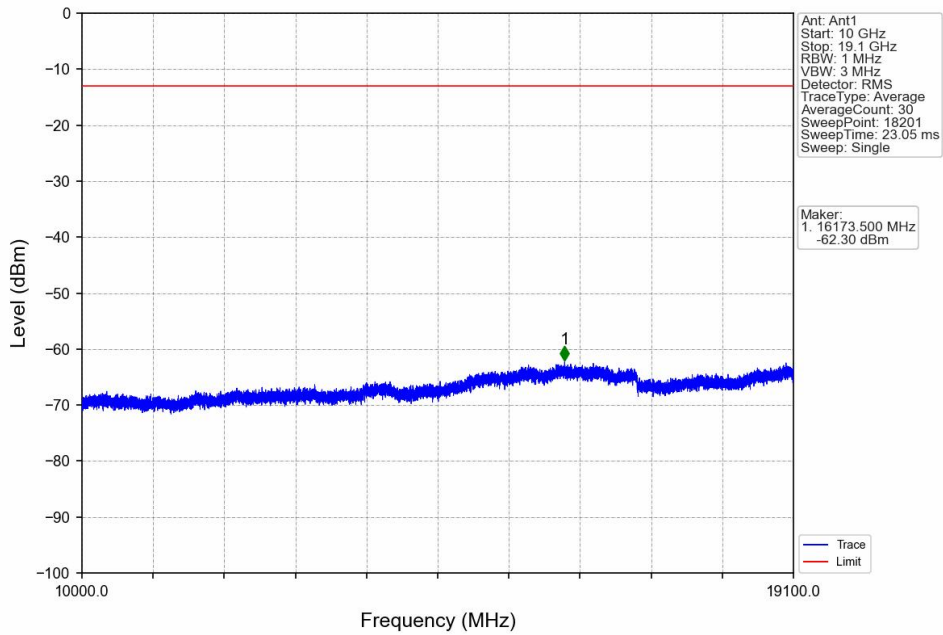
Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



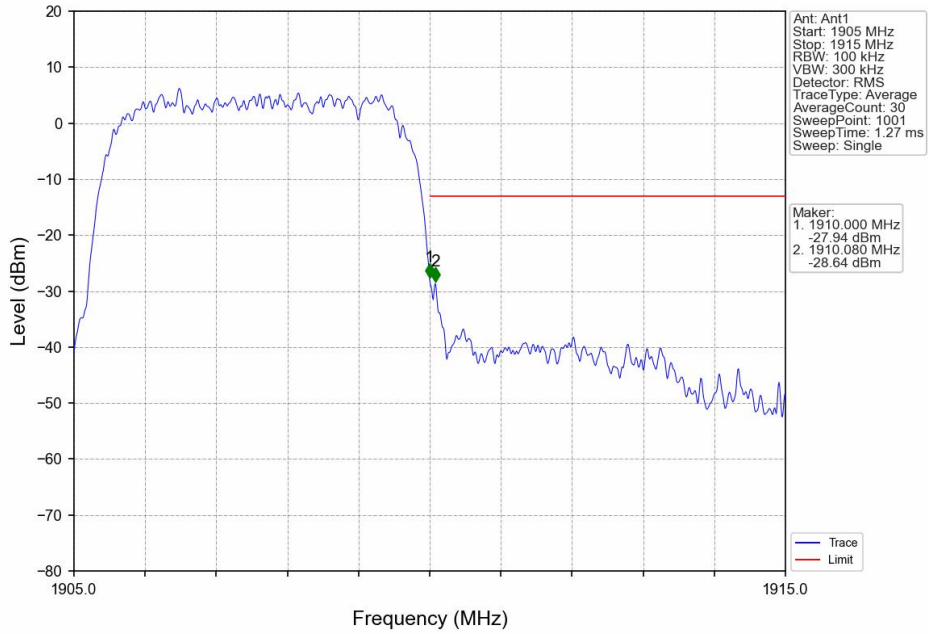
Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



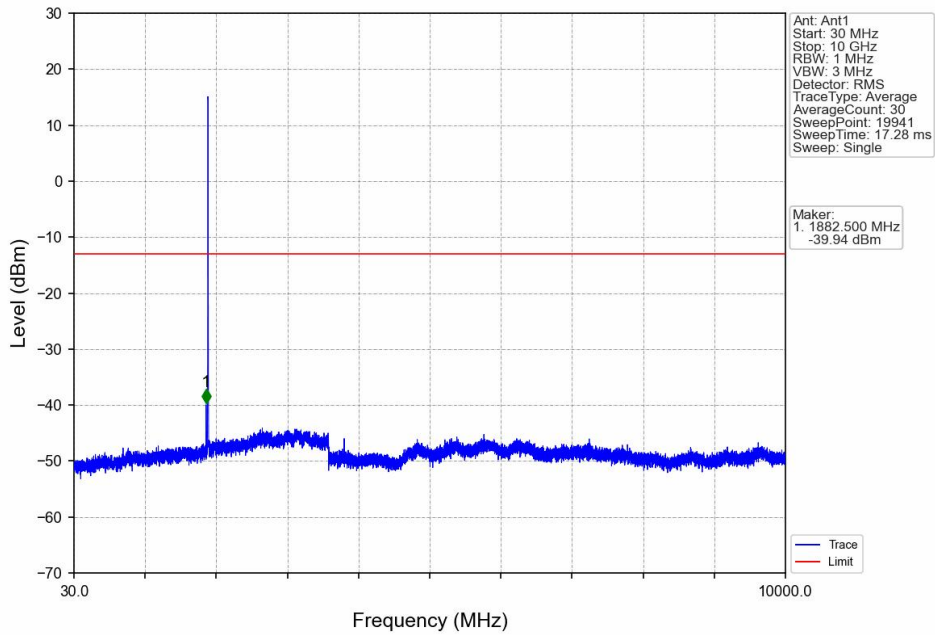
Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV

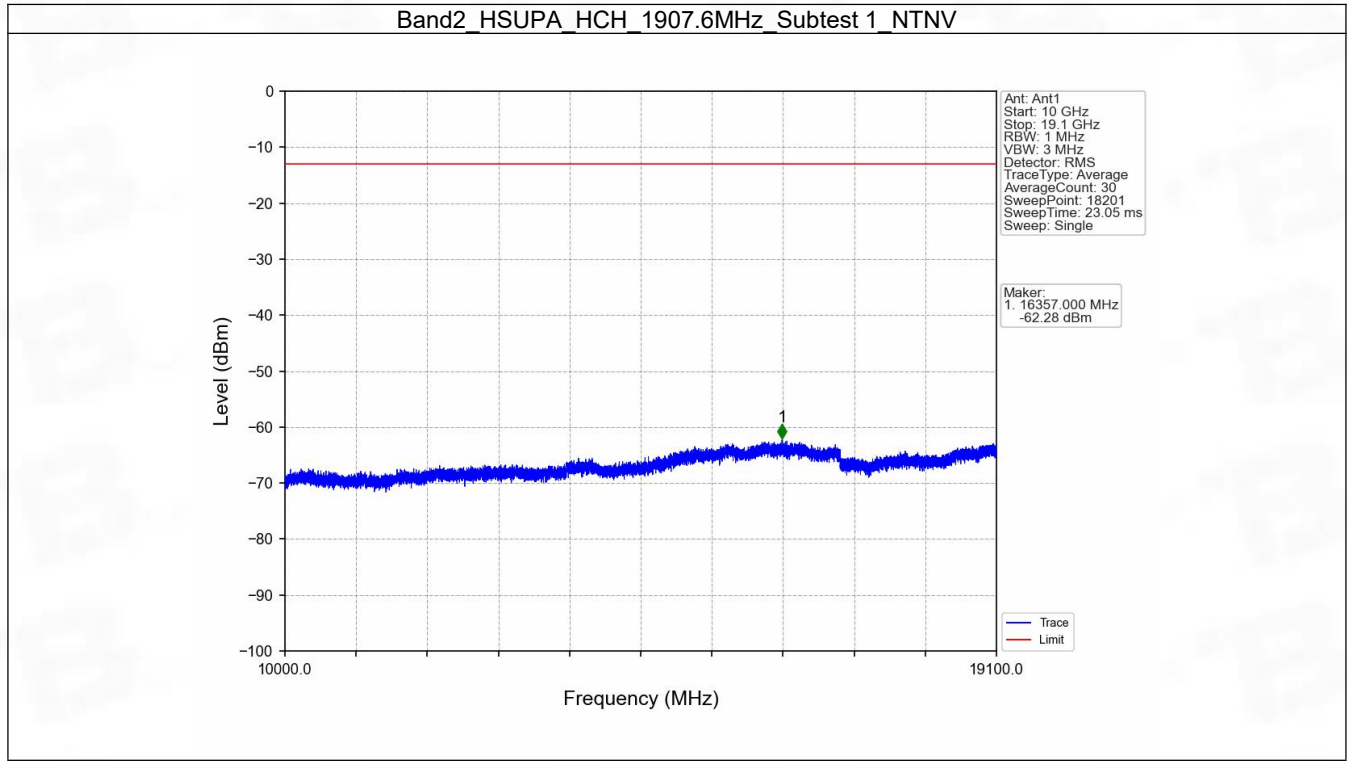


Band2\_HSUPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



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







## 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	0.1652	0.0121	ppm	4M17F9W	24E	22.18

### 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	0.1535	0.0121	ppm	4M17F9W	24E	21.86