

## 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	22.35	0.31	22.66	<=33.01	Pass	
			1880	22.30	0.31	22.61	<=33.01	Pass	
			1907.6	22.42	0.31	22.73	<=33.01	Pass	
	HSDPA	Subtest 1	1852.4	20.59	0.31	20.90	<=33.01	Pass	
		Subtest 2	1852.4	20.56	0.31	20.87	<=33.01	Pass	
		Subtest 3	1852.4	20.57	0.31	20.88	<=33.01	Pass	
		Subtest 4	1852.4	20.58	0.31	20.89	<=33.01	Pass	
		Subtest 1	1880	21.22	0.31	21.53	<=33.01	Pass	
		Subtest 2	1880	21.20	0.31	21.51	<=33.01	Pass	
		Subtest 3	1880	21.20	0.31	21.51	<=33.01	Pass	
		Subtest 4	1880	21.19	0.31	21.50	<=33.01	Pass	
		Subtest 1	1907.6	21.36	0.31	21.67	<=33.01	Pass	
		Subtest 2	1907.6	21.34	0.31	21.65	<=33.01	Pass	
		Subtest 3	1907.6	21.38	0.31	21.69	<=33.01	Pass	
		Subtest 4	1907.6	21.35	0.31	21.66	<=33.01	Pass	
		HSUPA	Subtest 1	1852.4	17.63	0.31	17.94	<=33.01	Pass
			Subtest 2	1852.4	17.67	0.31	17.98	<=33.01	Pass
	Subtest 3		1852.4	18.21	0.31	18.52	<=33.01	Pass	
	Subtest 4		1852.4	17.93	0.31	18.24	<=33.01	Pass	
	Subtest 5		1852.4	18.21	0.31	18.52	<=33.01	Pass	
	Subtest 1		1880	18.42	0.31	18.73	<=33.01	Pass	
	Subtest 2		1880	18.94	0.31	19.25	<=33.01	Pass	
	Subtest 3		1880	18.94	0.31	19.25	<=33.01	Pass	
	Subtest 4		1880	18.66	0.31	18.97	<=33.01	Pass	
	Subtest 5		1880	18.39	0.31	18.70	<=33.01	Pass	
	Subtest 1		1907.6	18.40	0.31	18.71	<=33.01	Pass	
	Subtest 2		1907.6	18.41	0.31	18.72	<=33.01	Pass	
	Subtest 3		1907.6	18.39	0.31	18.70	<=33.01	Pass	
	Subtest 4	1907.6	18.39	0.31	18.70	<=33.01	Pass		
	Subtest 5	1907.6	18.42	0.31	18.73	<=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	3.23	-1.888	-0.0010	-2.5 to 2.5	Pass
			3.8	-0.601	-0.0003	-2.5 to 2.5	Pass
			4.37	-2.303	-0.0012	-2.5 to 2.5	Pass

		-30	3.8	-1.173	-0.0006	-2.5 to 2.5	Pass	
		-20	3.8	2.997	0.0016	-2.5 to 2.5	Pass	
		-10	3.8	3.297	0.0018	-2.5 to 2.5	Pass	
		0	3.8	2.460	0.0013	-2.5 to 2.5	Pass	
		10	3.8	4.284	0.0023	-2.5 to 2.5	Pass	
		30	3.8	5.085	0.0027	-2.5 to 2.5	Pass	
		40	3.8	-7.045	-0.0038	-2.5 to 2.5	Pass	
	50	3.8	-6.595	-0.0036	-2.5 to 2.5	Pass		
	1880	20	3.23	3.970	0.0021	-2.5 to 2.5	Pass	
			3.8	1.931	0.0010	-2.5 to 2.5	Pass	
			4.37	1.087	0.0006	-2.5 to 2.5	Pass	
		-30	3.8	-5.085	-0.0027	-2.5 to 2.5	Pass	
		-20	3.8	-6.359	-0.0034	-2.5 to 2.5	Pass	
		-10	3.8	-3.347	-0.0018	-2.5 to 2.5	Pass	
		0	3.8	-6.824	-0.0036	-2.5 to 2.5	Pass	
		10	3.8	-5.686	-0.0030	-2.5 to 2.5	Pass	
		30	3.8	-5.779	-0.0031	-2.5 to 2.5	Pass	
		40	3.8	-4.270	-0.0023	-2.5 to 2.5	Pass	
		50	3.8	4.556	0.0024	-2.5 to 2.5	Pass	
		1907.6	20	3.23	-3.755	-0.0020	-2.5 to 2.5	Pass
				3.8	10.521	0.0055	-2.5 to 2.5	Pass
	4.37			0.179	0.0001	-2.5 to 2.5	Pass	
	-30		3.8	-0.079	0.0000	-2.5 to 2.5	Pass	
	-20		3.8	-0.808	-0.0004	-2.5 to 2.5	Pass	
	-10		3.8	1.552	0.0008	-2.5 to 2.5	Pass	
	0		3.8	0.815	0.0004	-2.5 to 2.5	Pass	
	10		3.8	4.013	0.0021	-2.5 to 2.5	Pass	
30	3.8		9.506	0.0050	-2.5 to 2.5	Pass		
40	3.8		1.259	0.0007	-2.5 to 2.5	Pass		
50	3.8		3.955	0.0021	-2.5 to 2.5	Pass		
HSDPA	1852.4		20	3.23	8.783	0.0047	-2.5 to 2.5	Pass
				3.8	11.287	0.0061	-2.5 to 2.5	Pass
		4.37		8.805	0.0048	-2.5 to 2.5	Pass	
		-30	3.8	6.223	0.0034	-2.5 to 2.5	Pass	
		-20	3.8	10.722	0.0058	-2.5 to 2.5	Pass	
		-10	3.8	9.742	0.0053	-2.5 to 2.5	Pass	
		0	3.8	8.841	0.0048	-2.5 to 2.5	Pass	
		10	3.8	8.590	0.0046	-2.5 to 2.5	Pass	
		30	3.8	10.042	0.0054	-2.5 to 2.5	Pass	
		40	3.8	9.348	0.0050	-2.5 to 2.5	Pass	
		50	3.8	11.108	0.0060	-2.5 to 2.5	Pass	
		1880	20	3.23	12.589	0.0067	-2.5 to 2.5	Pass
				3.8	12.703	0.0068	-2.5 to 2.5	Pass
	4.37			10.643	0.0057	-2.5 to 2.5	Pass	
	-30		3.8	7.367	0.0039	-2.5 to 2.5	Pass	
	-20		3.8	7.503	0.0040	-2.5 to 2.5	Pass	
	-10		3.8	11.094	0.0059	-2.5 to 2.5	Pass	
	0		3.8	9.835	0.0052	-2.5 to 2.5	Pass	
	10		3.8	13.440	0.0071	-2.5 to 2.5	Pass	
	30		3.8	11.365	0.0060	-2.5 to 2.5	Pass	
	40		3.8	10.142	0.0054	-2.5 to 2.5	Pass	
	50		3.8	8.447	0.0045	-2.5 to 2.5	Pass	
	1907.6		20	3.23	5.300	0.0028	-2.5 to 2.5	Pass
				3.8	5.407	0.0028	-2.5 to 2.5	Pass
		4.37		5.414	0.0028	-2.5 to 2.5	Pass	
		-30	3.8	5.479	0.0029	-2.5 to 2.5	Pass	
		-20	3.8	3.734	0.0020	-2.5 to 2.5	Pass	

		-10	3.8	4.549	0.0024	-2.5 to 2.5	Pass
		0	3.8	6.216	0.0033	-2.5 to 2.5	Pass
		10	3.8	4.914	0.0026	-2.5 to 2.5	Pass
		30	3.8	6.022	0.0032	-2.5 to 2.5	Pass
		40	3.8	4.191	0.0022	-2.5 to 2.5	Pass
		50	3.8	4.263	0.0022	-2.5 to 2.5	Pass
HSUPA	1852.4	20	3.23	-16.422	-0.0089	-2.5 to 2.5	Pass
			3.8	-17.381	-0.0094	-2.5 to 2.5	Pass
			4.37	-14.184	-0.0077	-2.5 to 2.5	Pass
		-30	3.8	-9.627	-0.0052	-2.5 to 2.5	Pass
		-20	3.8	-13.418	-0.0072	-2.5 to 2.5	Pass
		-10	3.8	-15.228	-0.0082	-2.5 to 2.5	Pass
		0	3.8	-12.760	-0.0069	-2.5 to 2.5	Pass
		10	3.8	-12.882	-0.0070	-2.5 to 2.5	Pass
		30	3.8	-12.059	-0.0065	-2.5 to 2.5	Pass
		40	3.8	-15.371	-0.0083	-2.5 to 2.5	Pass
	50	3.8	-15.121	-0.0082	-2.5 to 2.5	Pass	
	1880	20	3.23	-16.630	-0.0088	-2.5 to 2.5	Pass
			3.8	-11.072	-0.0059	-2.5 to 2.5	Pass
			4.37	-9.556	-0.0051	-2.5 to 2.5	Pass
		-30	3.8	-11.044	-0.0059	-2.5 to 2.5	Pass
		-20	3.8	-12.960	-0.0069	-2.5 to 2.5	Pass
		-10	3.8	-16.043	-0.0085	-2.5 to 2.5	Pass
		0	3.8	-13.926	-0.0074	-2.5 to 2.5	Pass
		10	3.8	-14.484	-0.0077	-2.5 to 2.5	Pass
		30	3.8	-12.925	-0.0069	-2.5 to 2.5	Pass
		40	3.8	-12.002	-0.0064	-2.5 to 2.5	Pass
	50	3.8	-11.494	-0.0061	-2.5 to 2.5	Pass	
	1907.6	20	3.23	-12.095	-0.0063	-2.5 to 2.5	Pass
			3.8	-10.579	-0.0055	-2.5 to 2.5	Pass
			4.37	-10.557	-0.0055	-2.5 to 2.5	Pass
		-30	3.8	-8.218	-0.0043	-2.5 to 2.5	Pass
		-20	3.8	-12.503	-0.0066	-2.5 to 2.5	Pass
		-10	3.8	-11.623	-0.0061	-2.5 to 2.5	Pass
		0	3.8	-10.600	-0.0056	-2.5 to 2.5	Pass
		10	3.8	-13.862	-0.0073	-2.5 to 2.5	Pass
30		3.8	-11.237	-0.0059	-2.5 to 2.5	Pass	
40		3.8	-9.692	-0.0051	-2.5 to 2.5	Pass	
50	3.8	-9.627	-0.0050	-2.5 to 2.5	Pass		

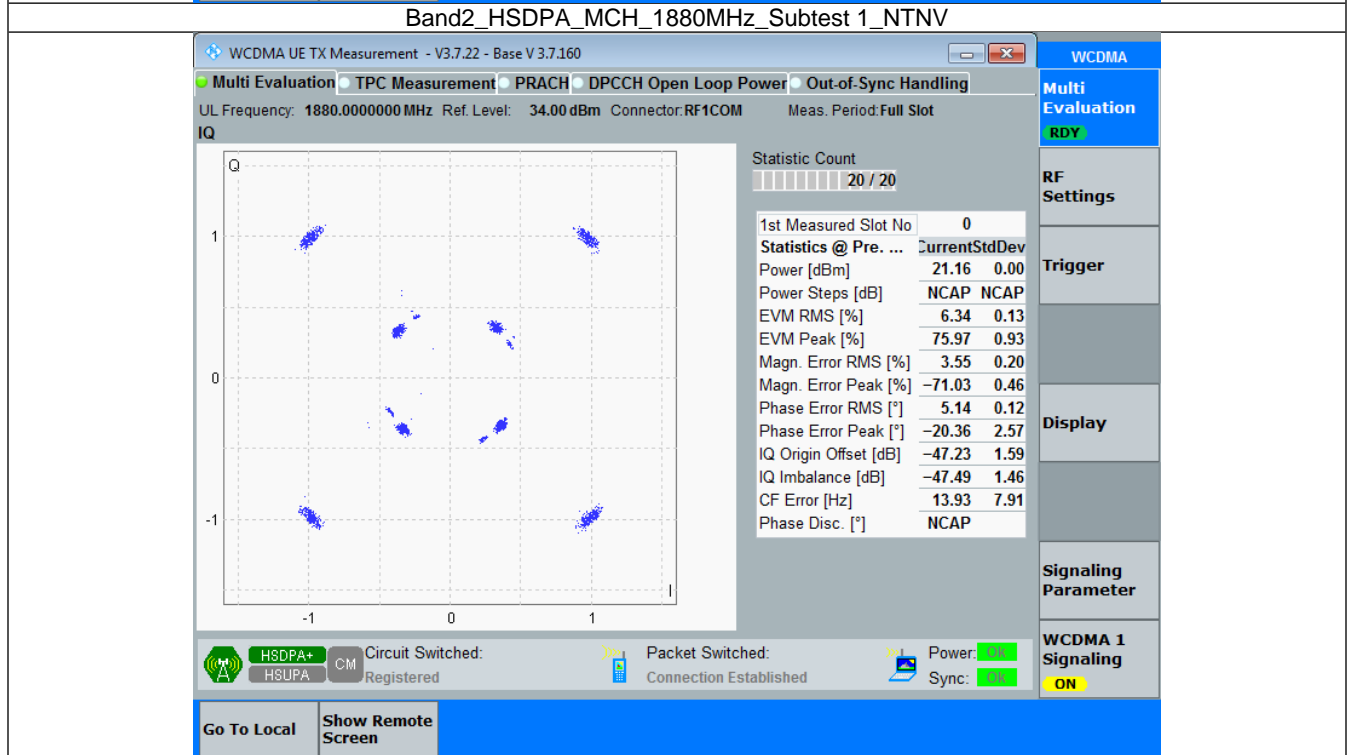
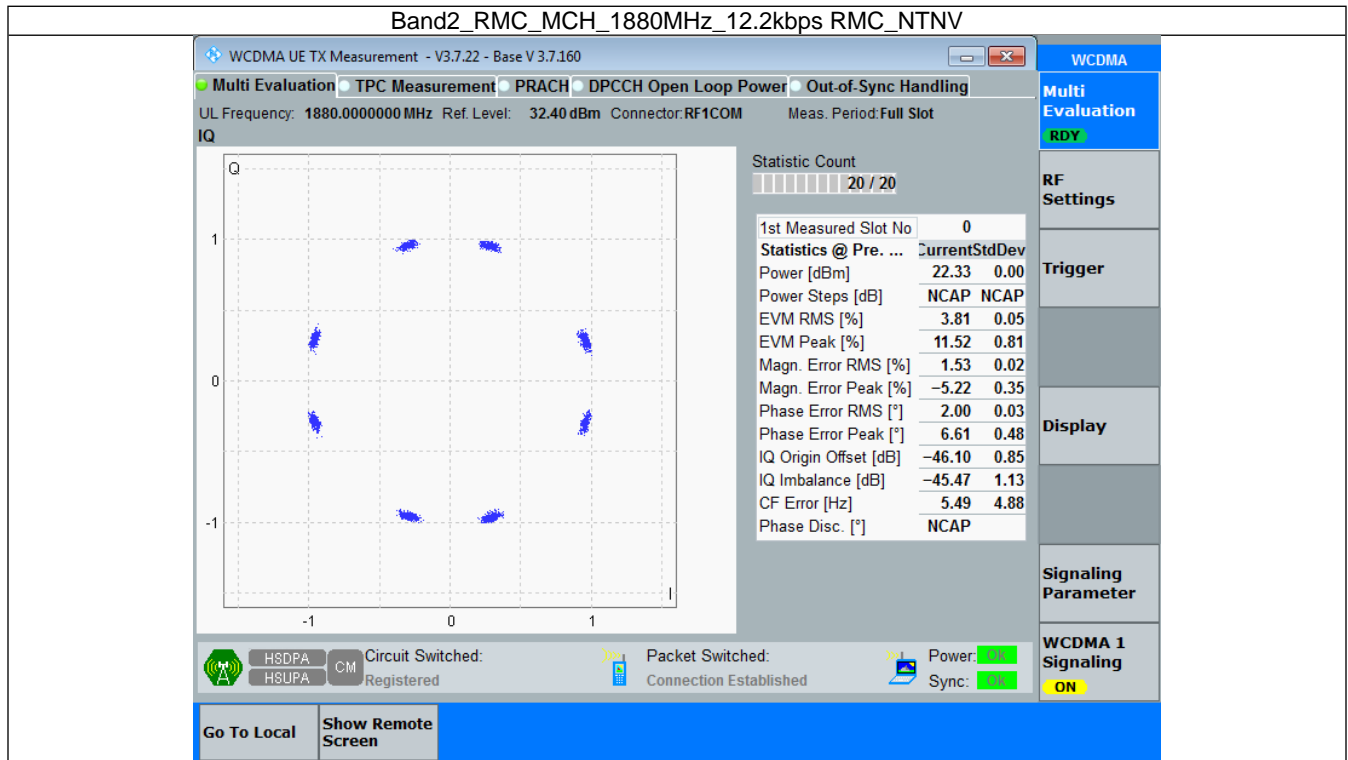
### 3. Modulation Characteristics

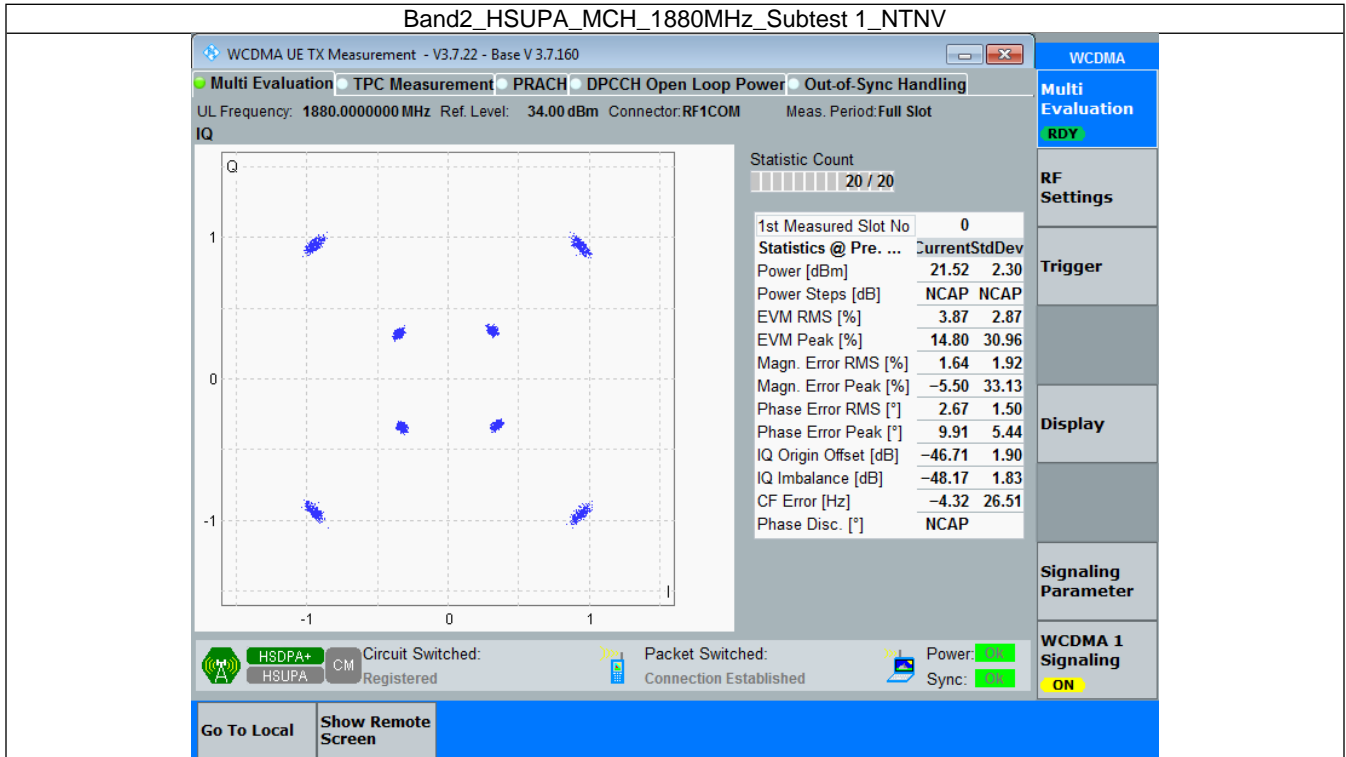
#### 3.1 Band2

##### 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





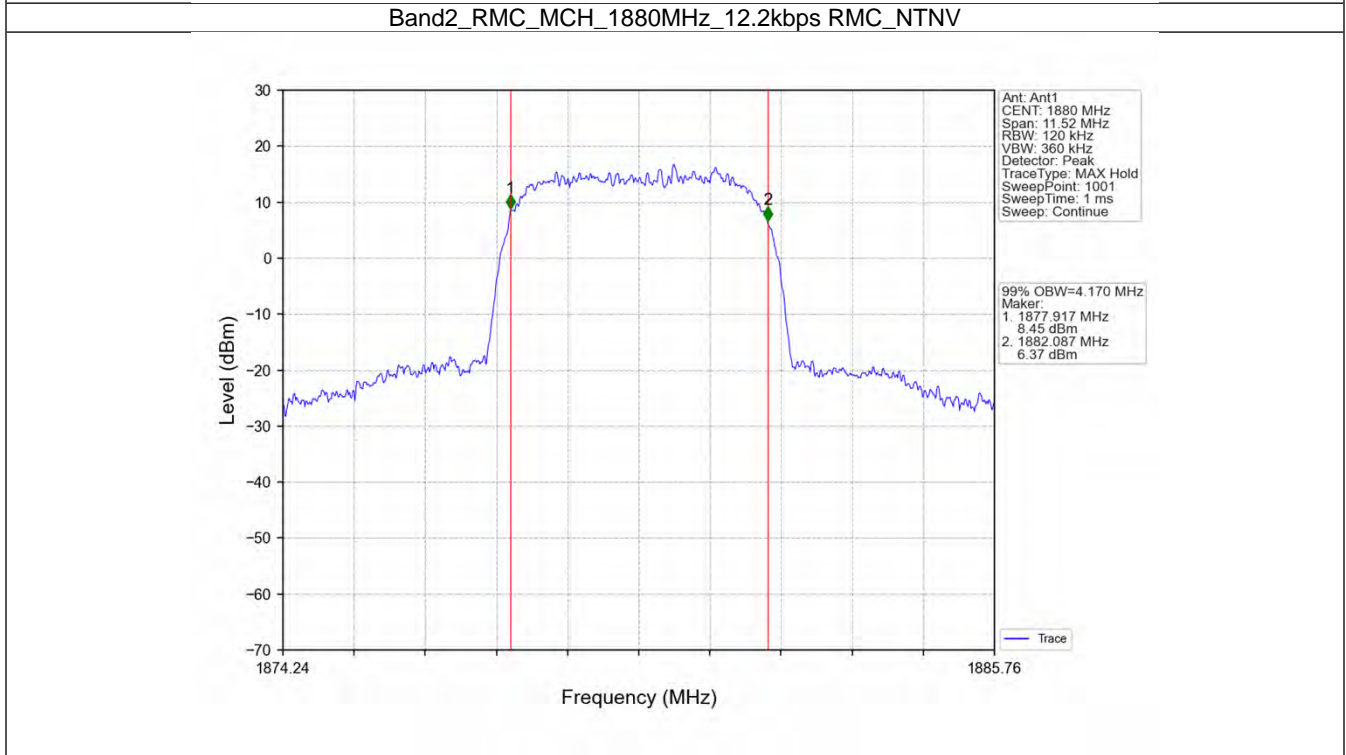
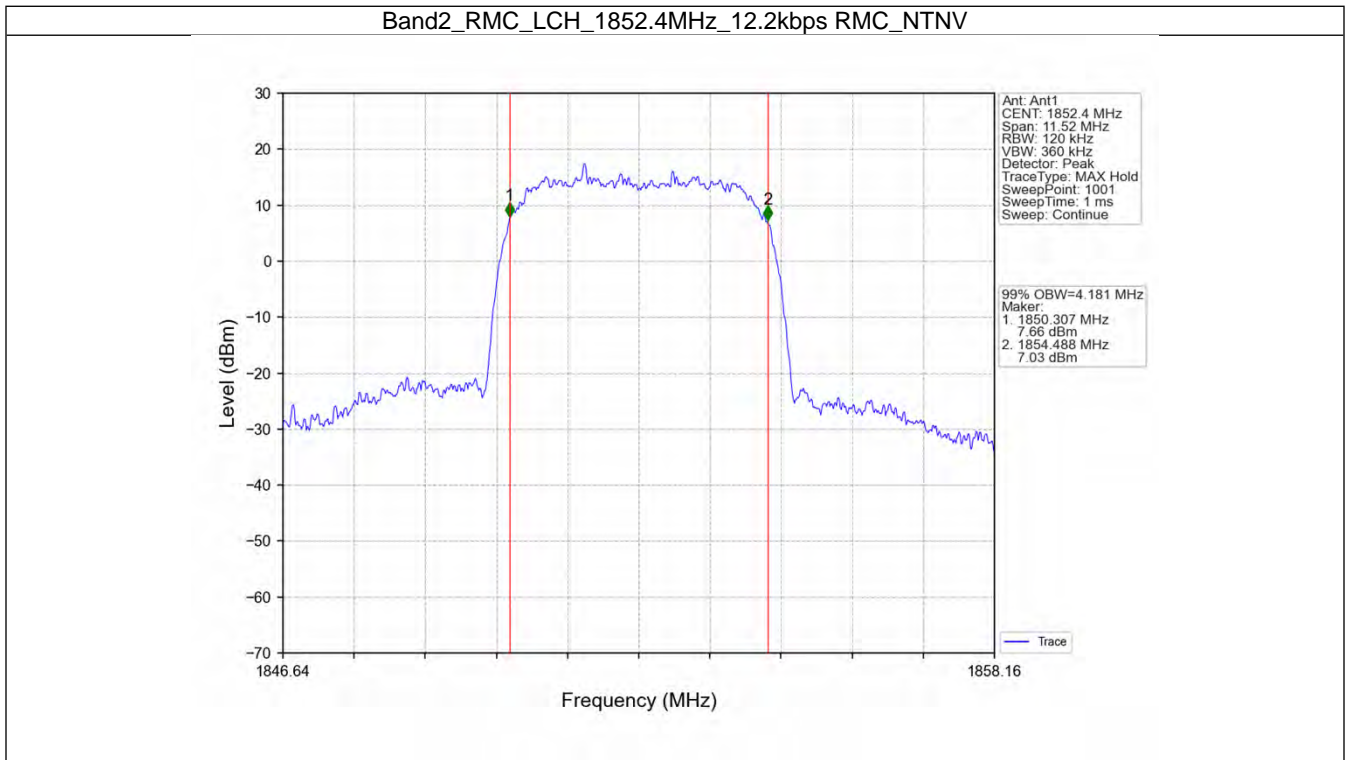
## 4. 99% & 26dB Bandwidth

### 4.1 Band2\_OBW

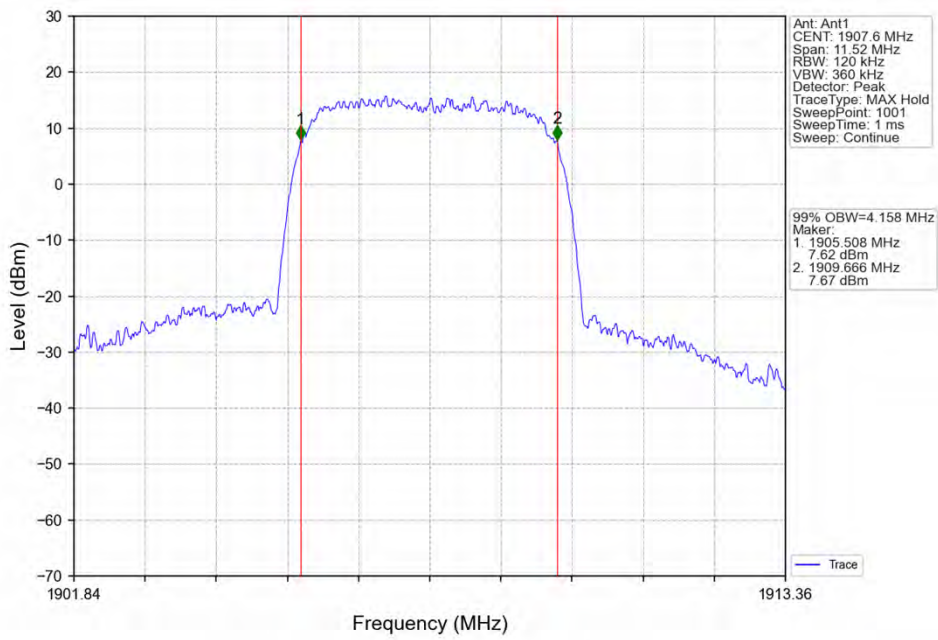
#### 4.1.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.181	Pass
			1880	4.170	Pass
			1907.6	4.158	Pass
	HSDPA	Subtest 1	1852.4	4.171	Pass
			1880	4.172	Pass
			1907.6	4.162	Pass
	HSUPA	Subtest 1	1852.4	4.178	Pass
			1880	4.176	Pass
			1907.6	4.173	Pass

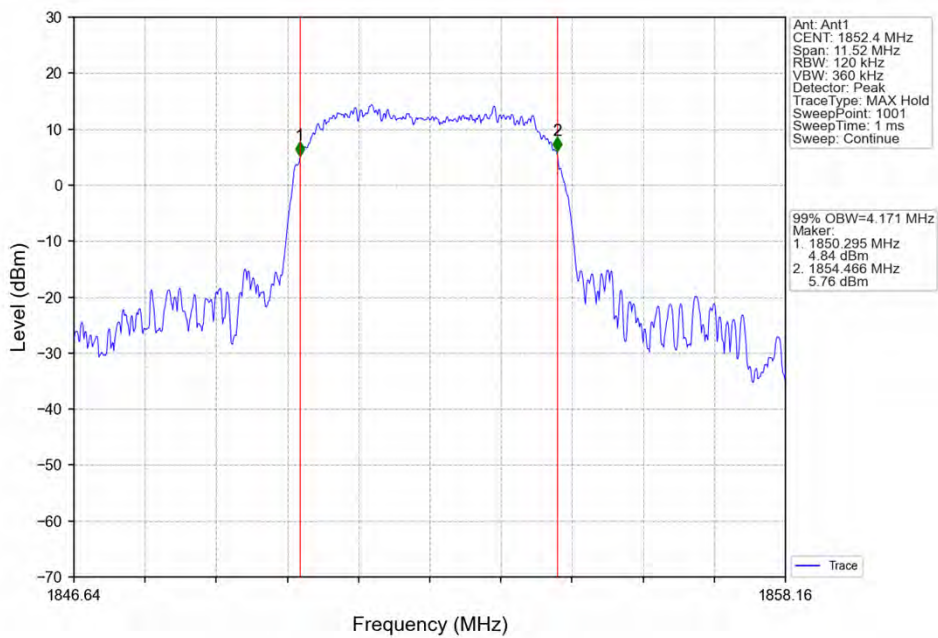
### 4.1.2 Test Graph



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

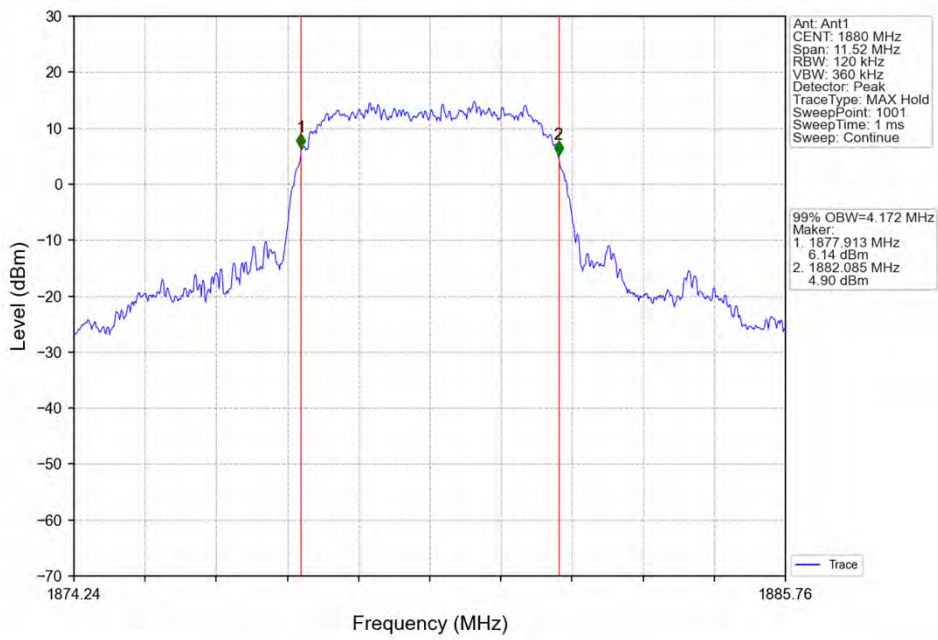


Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV

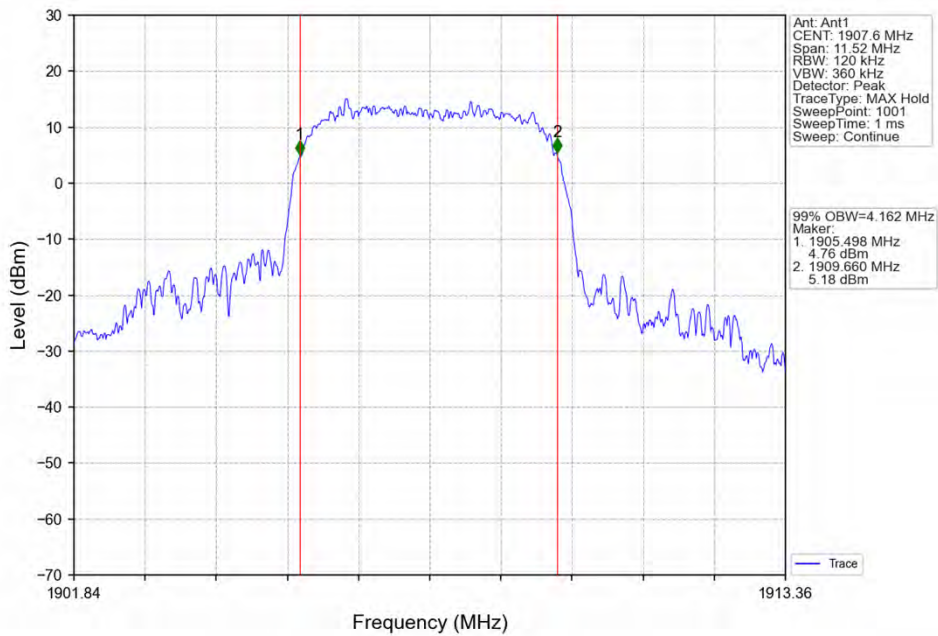




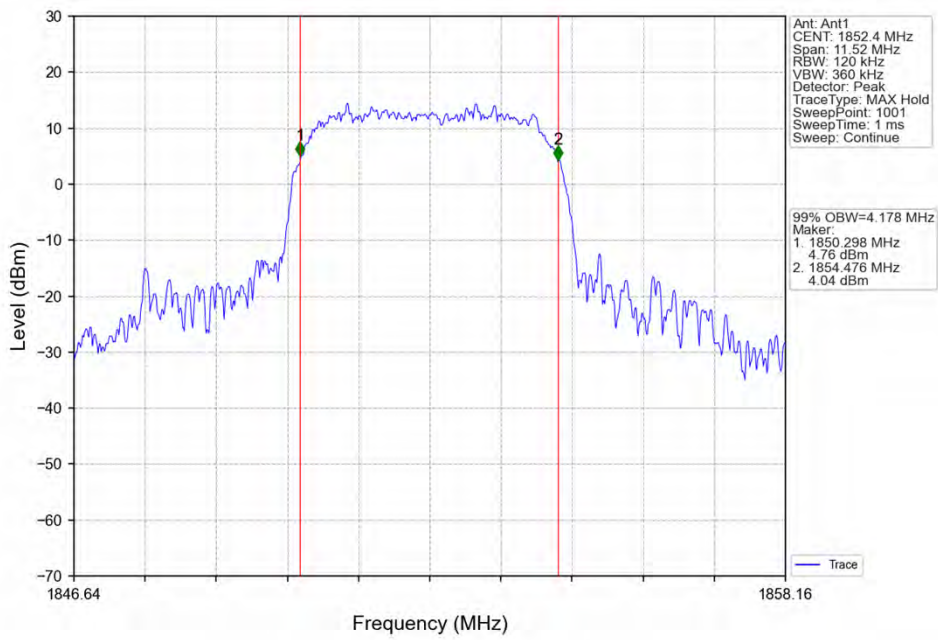
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



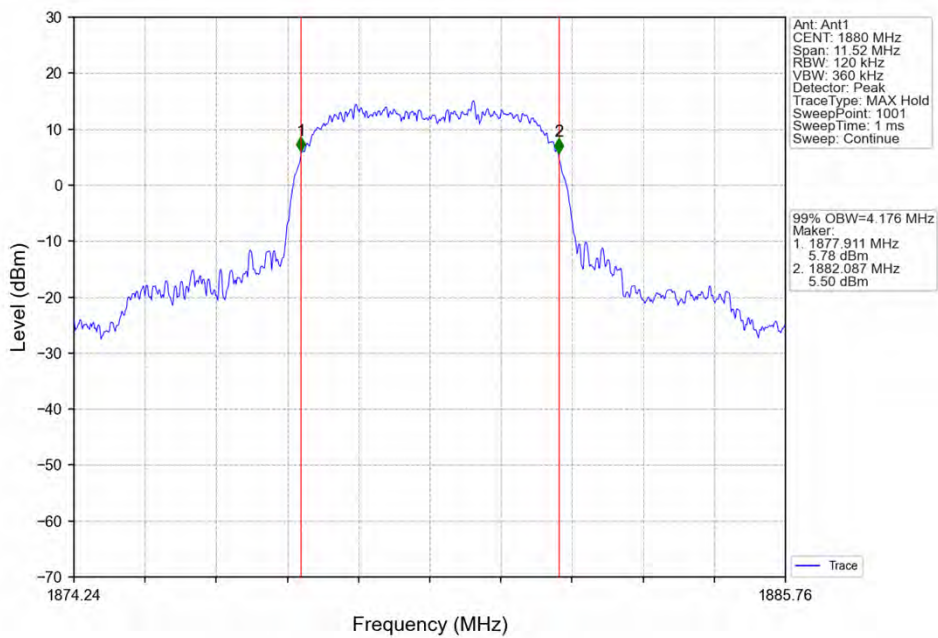
Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



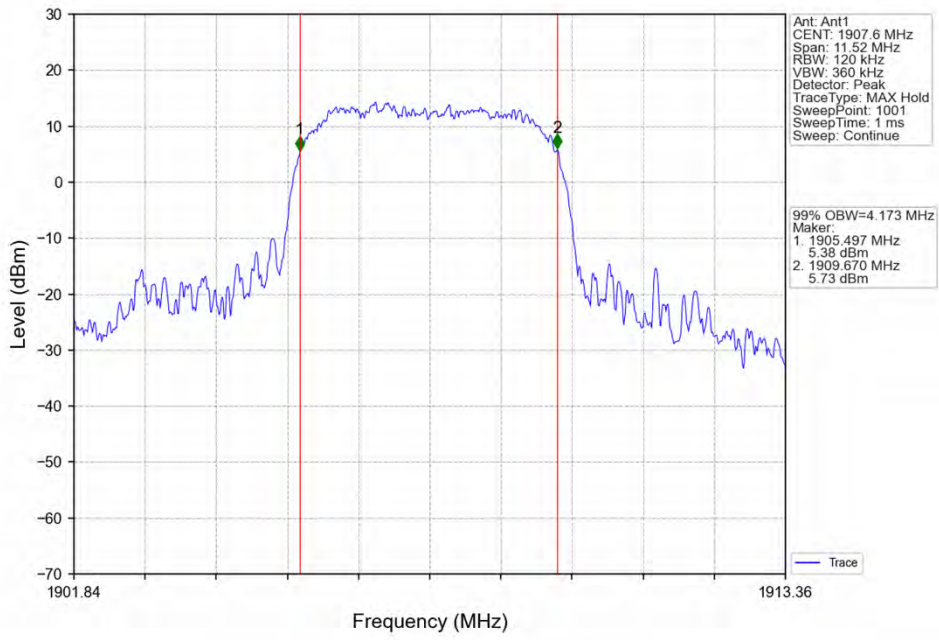
Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



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



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

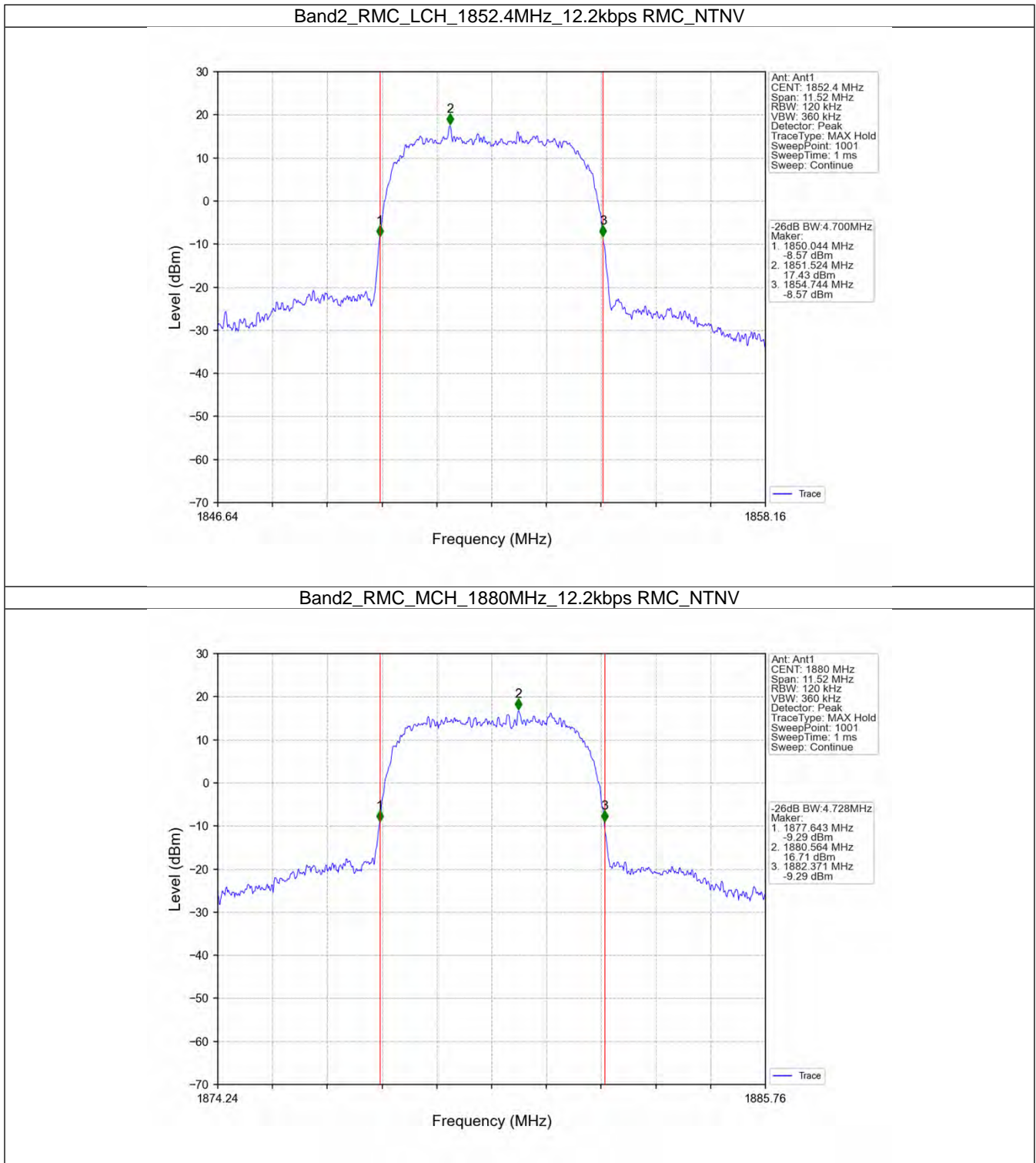


## 4.2 Band2\_XDB

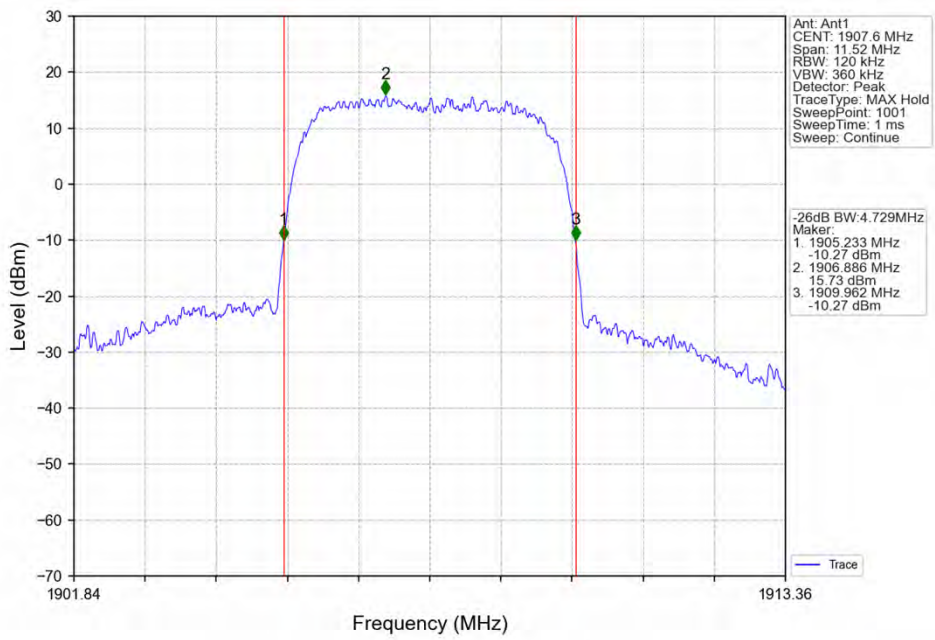
## 4.2.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz) Result	Verdict
	Network	Subset			
NTNV	RMC	12.2kbps RMC	1852.4	4.700	Pass
			1880	4.728	Pass
			1907.6	4.729	Pass
	HSDPA	Subtest 1	1852.4	4.689	Pass
			1880	5.775	Pass
			1907.6	4.692	Pass
	HSUPA	Subtest 1	1852.4	4.700	Pass
			1880	4.894	Pass
			1907.6	4.934	Pass

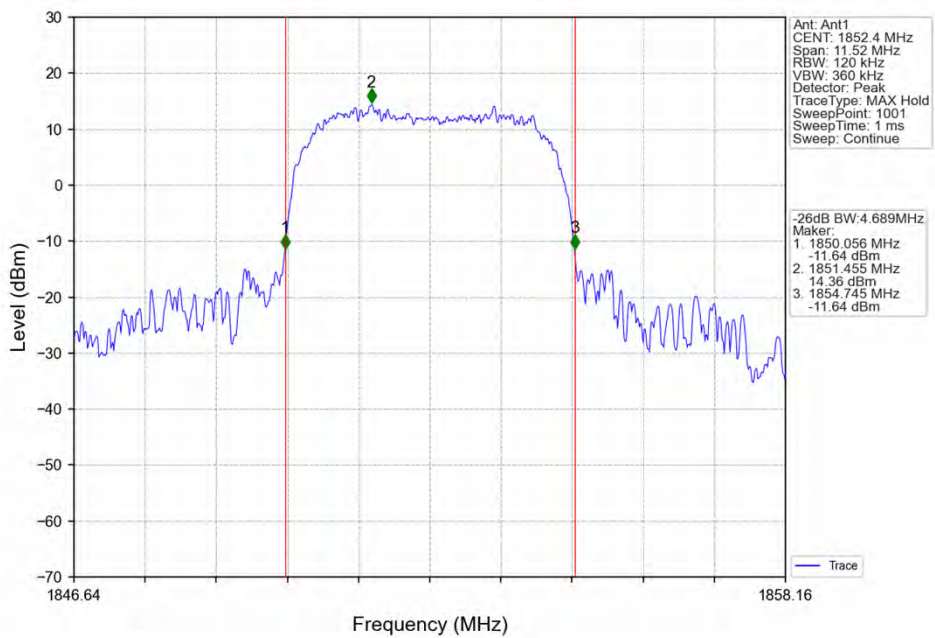
### 4.2.2 Test Graph



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

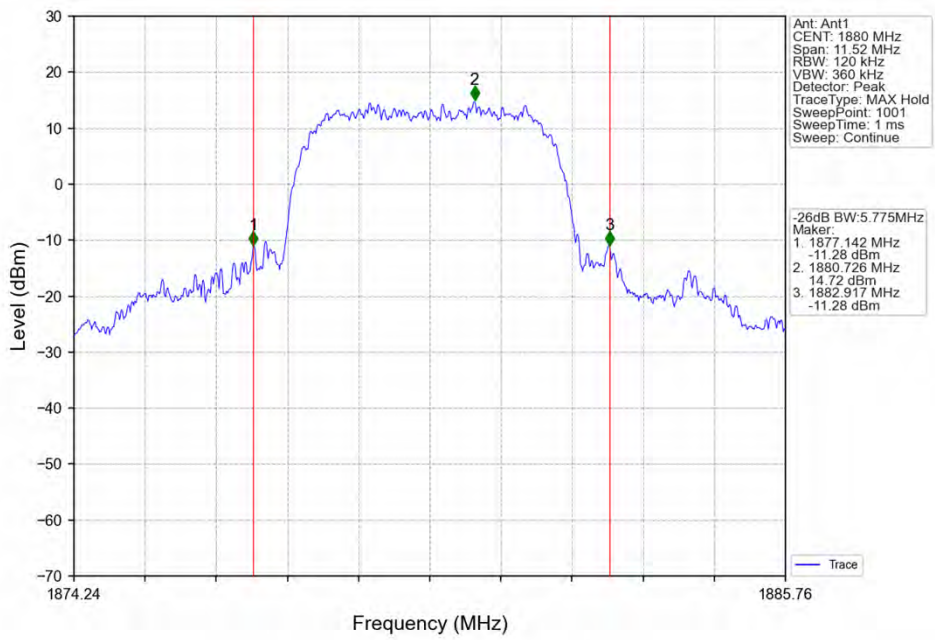


Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV

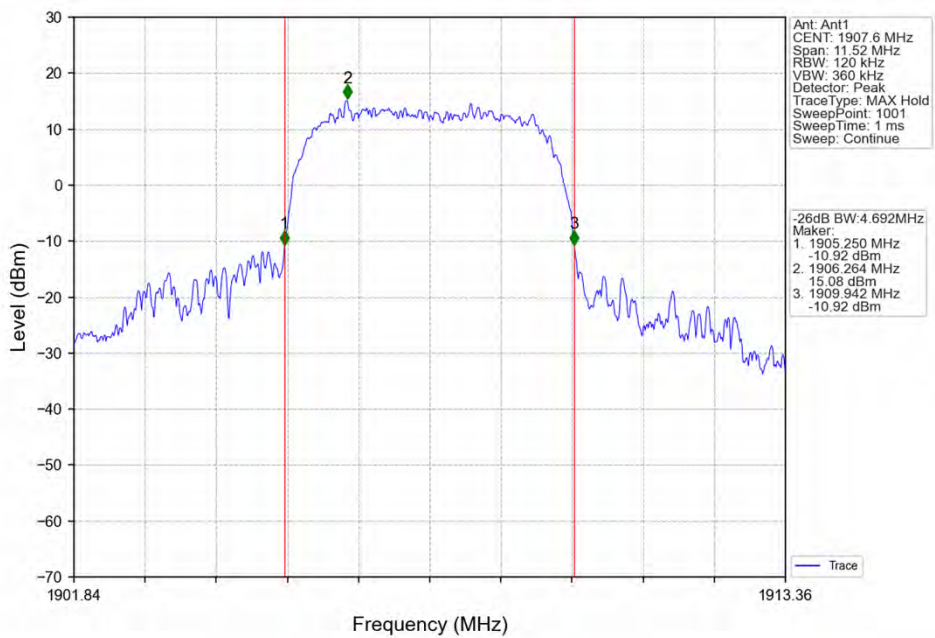




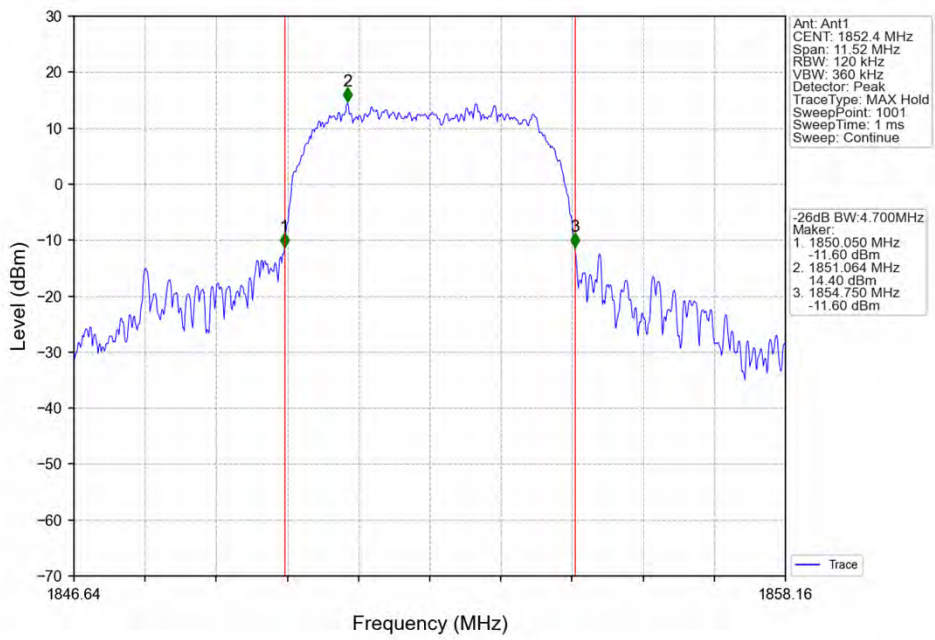
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



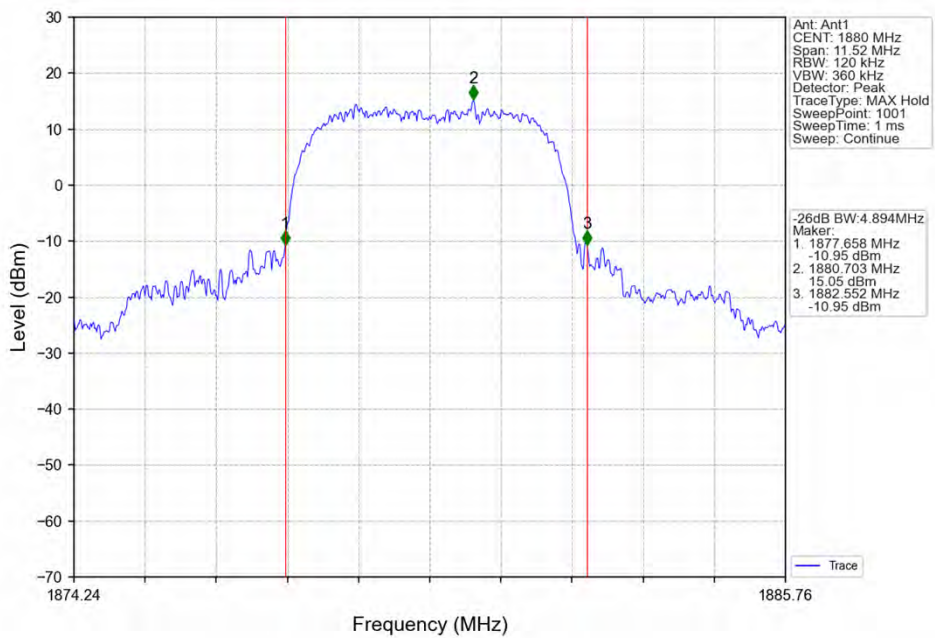
Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



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

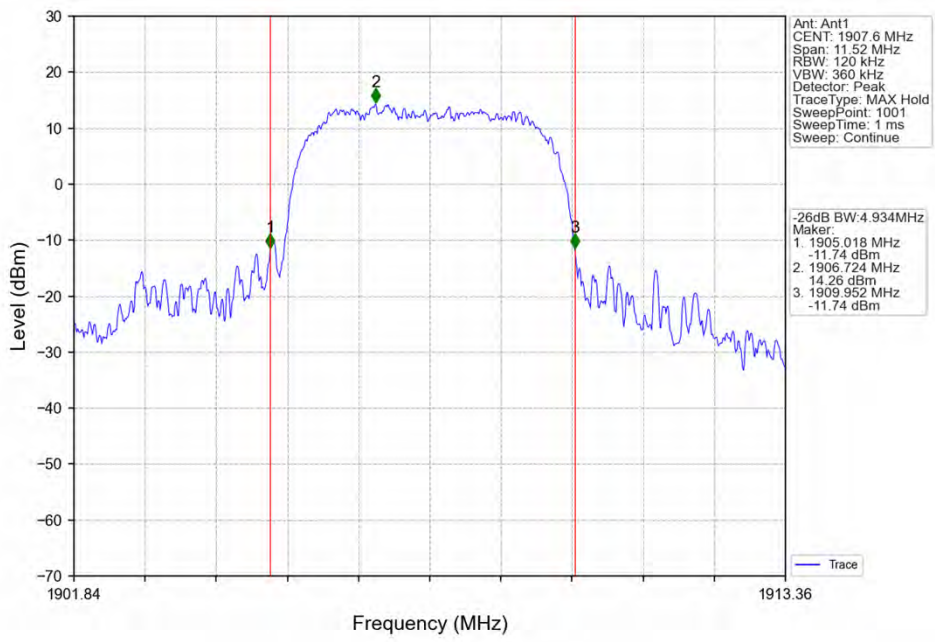


Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV





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



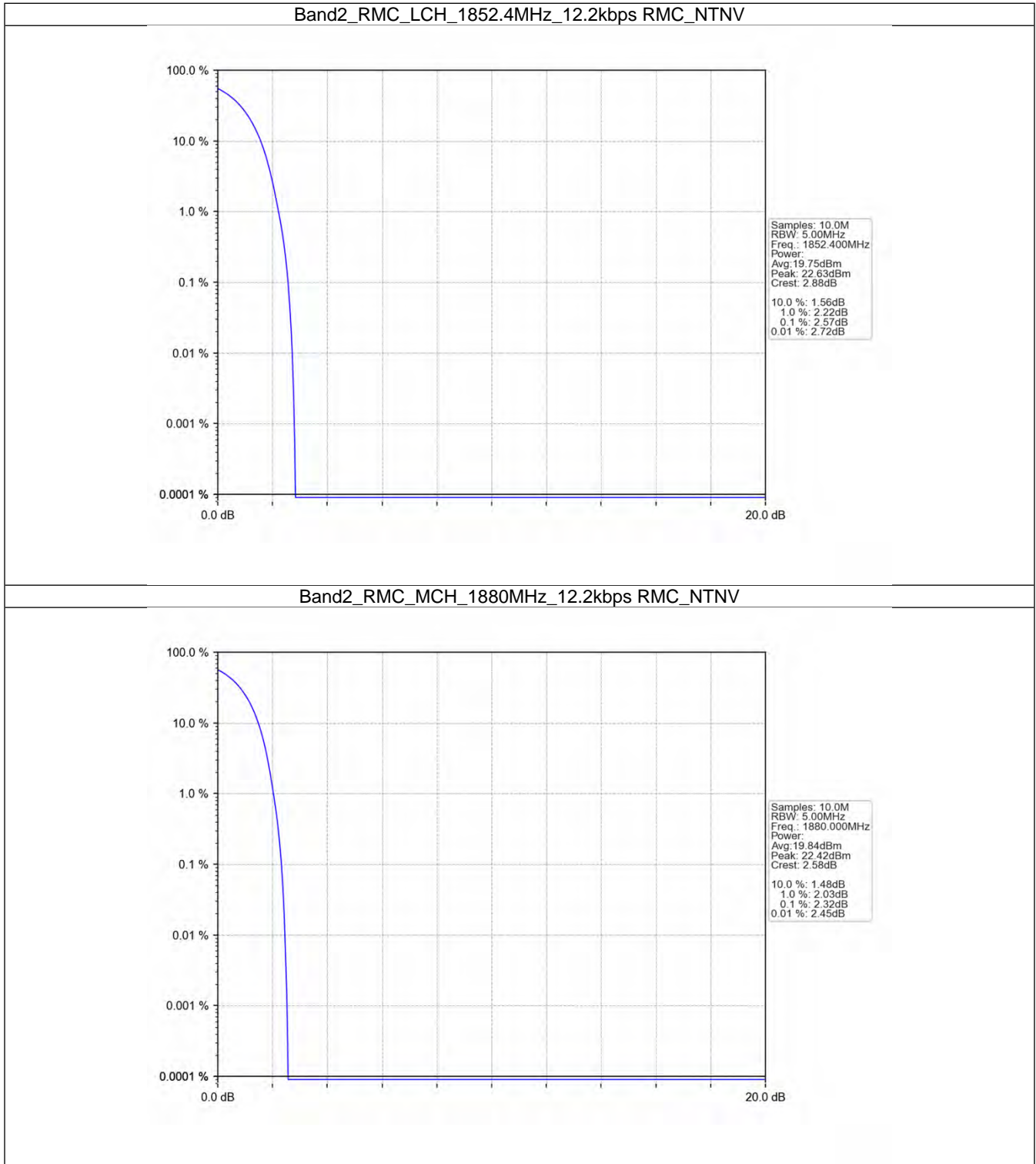
## 5. Peak-Average Ratio

### 5.1 Band2

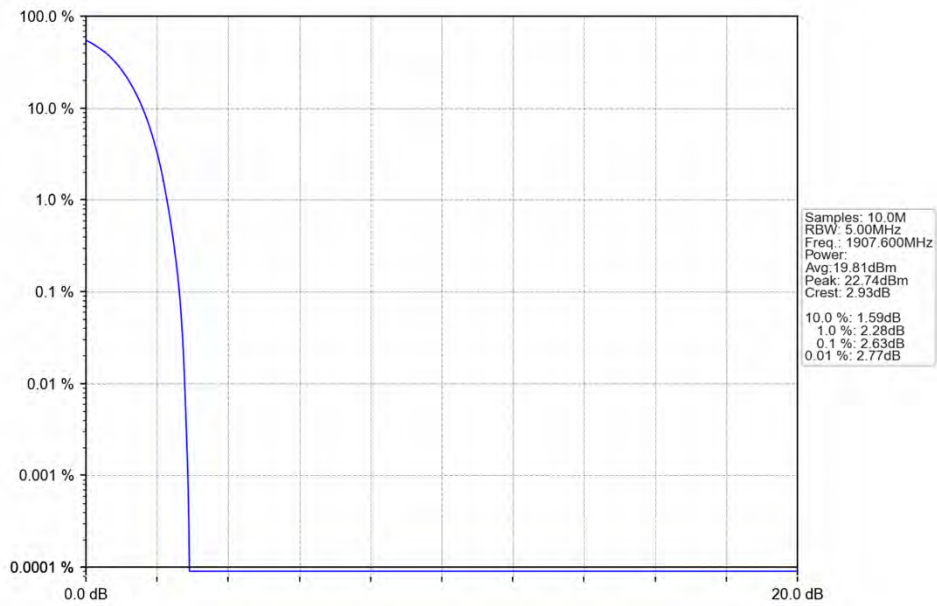
#### 5.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.57	<=13	Pass
			1880	2.32	<=13	Pass
			1907.6	2.63	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.50	<=13	Pass
			1880	5.27	<=13	Pass
			1907.6	5.52	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.55	<=13	Pass
			1880	5.28	<=13	Pass
			1907.6	5.50	<=13	Pass

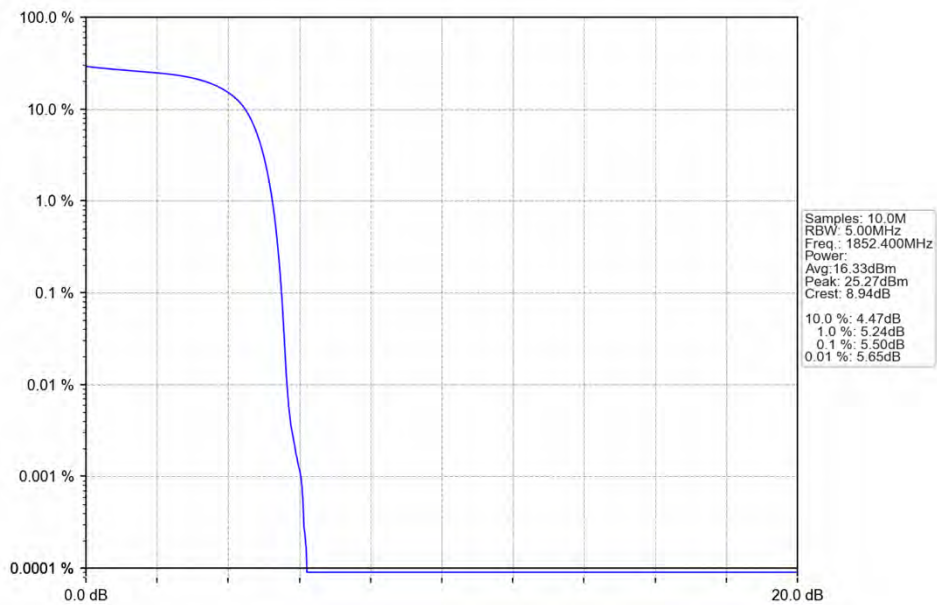
### 5.1.2 Test Graph



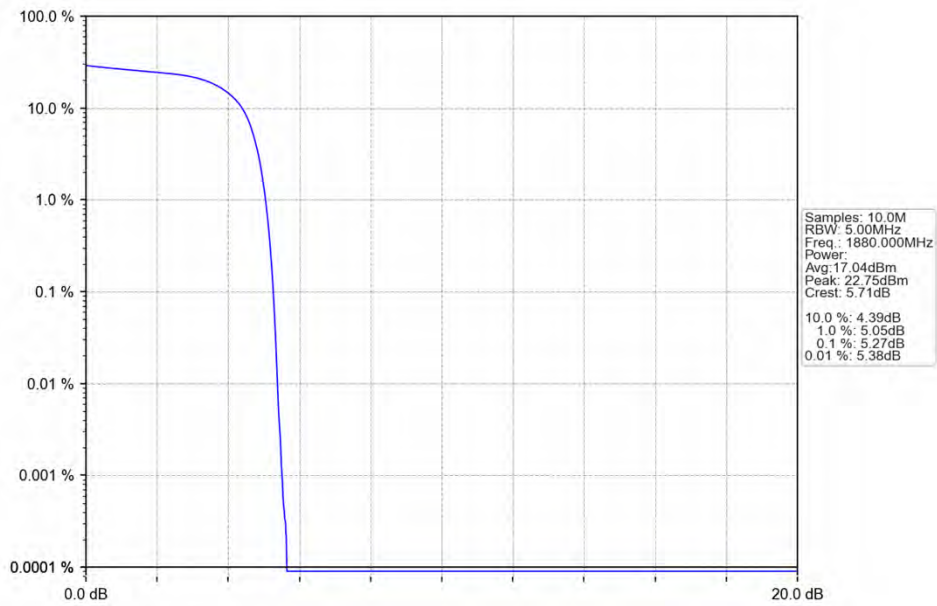
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



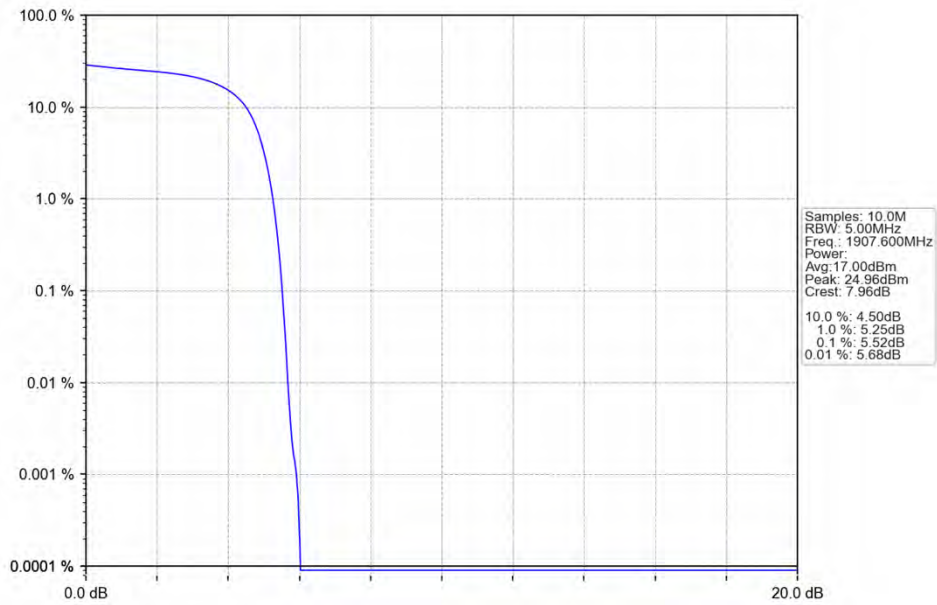
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



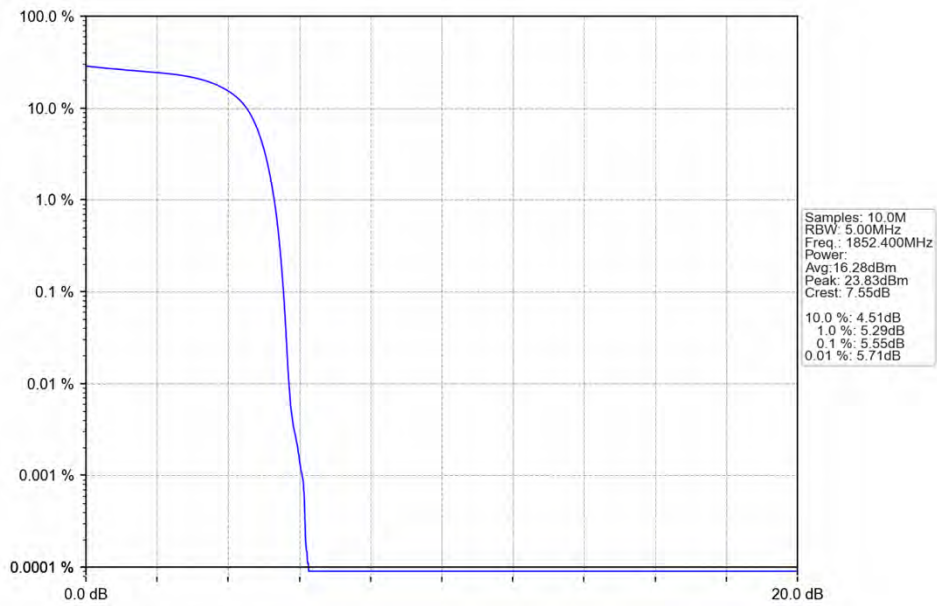
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



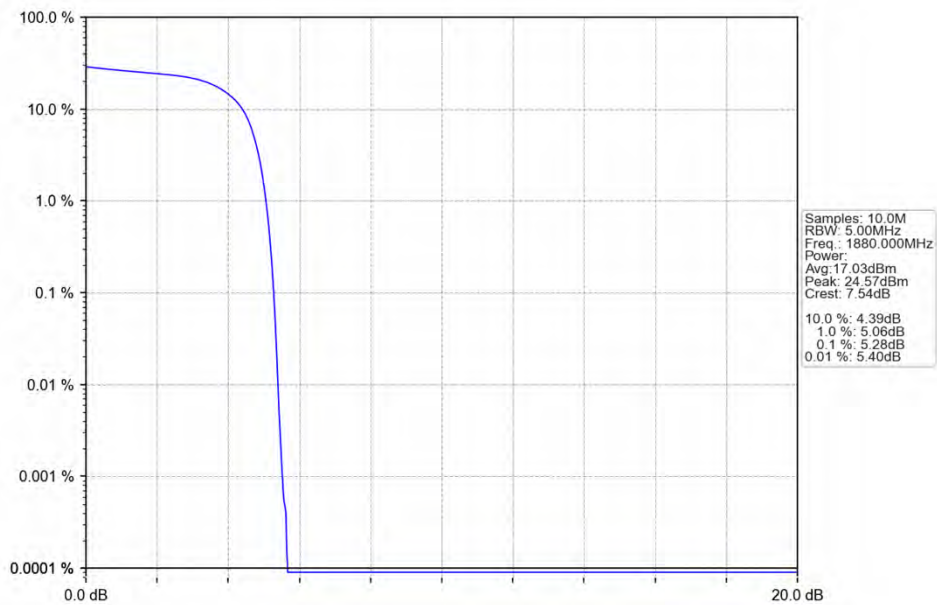
Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



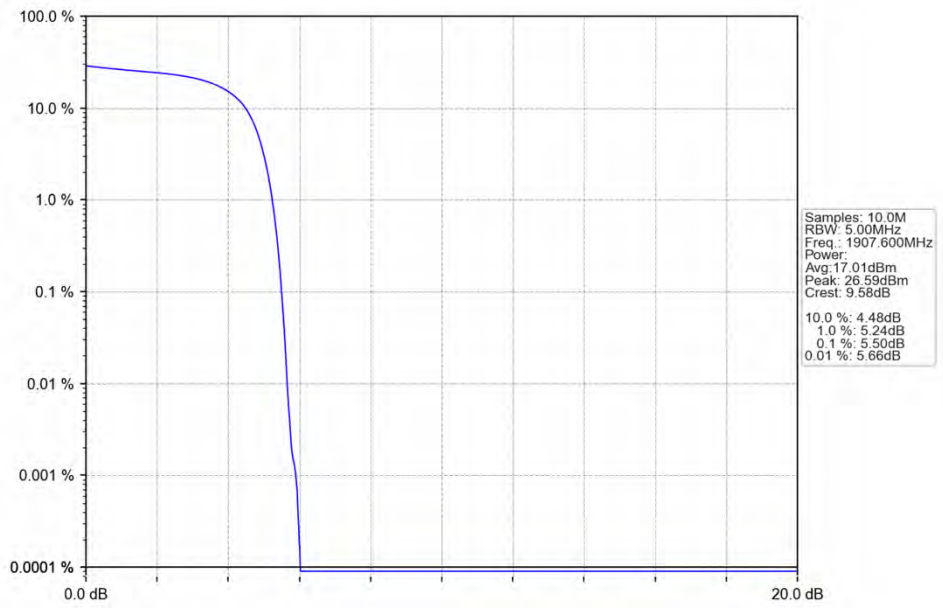
Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



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



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



## 6. Spurious Emission

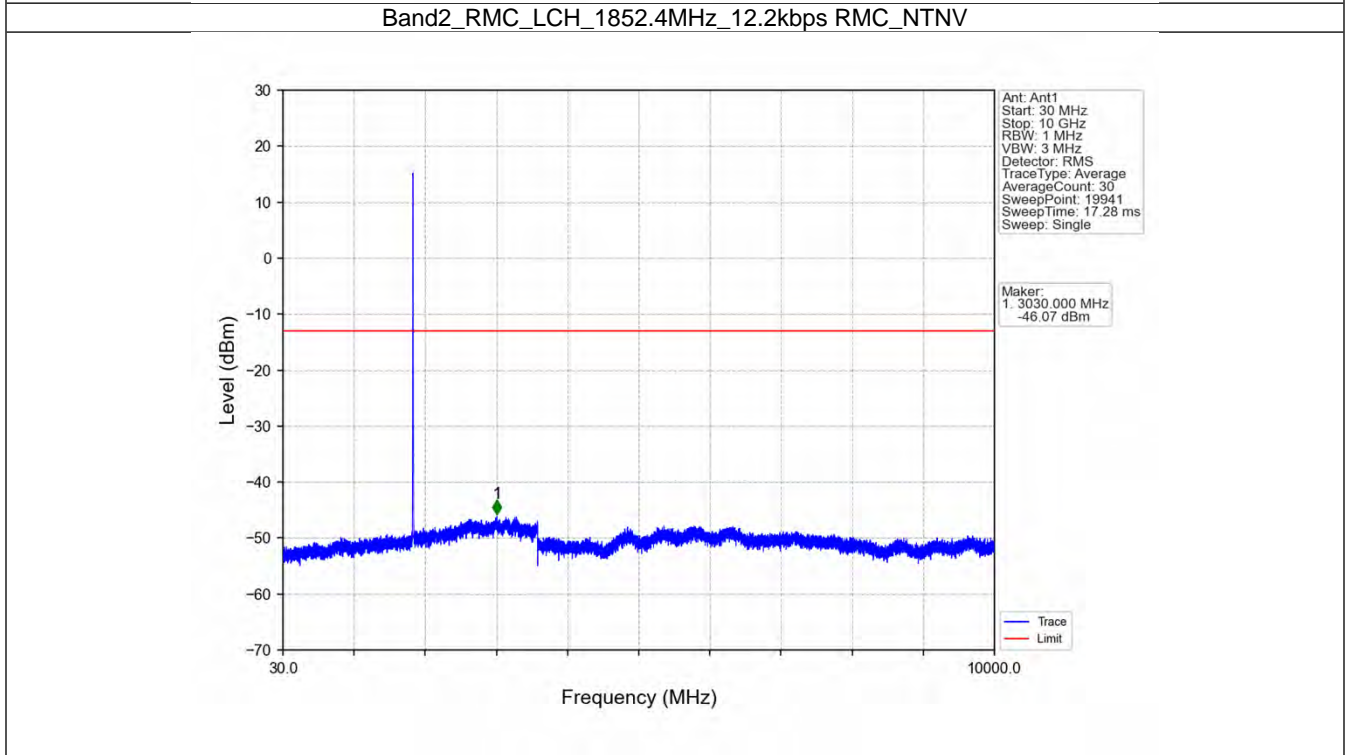
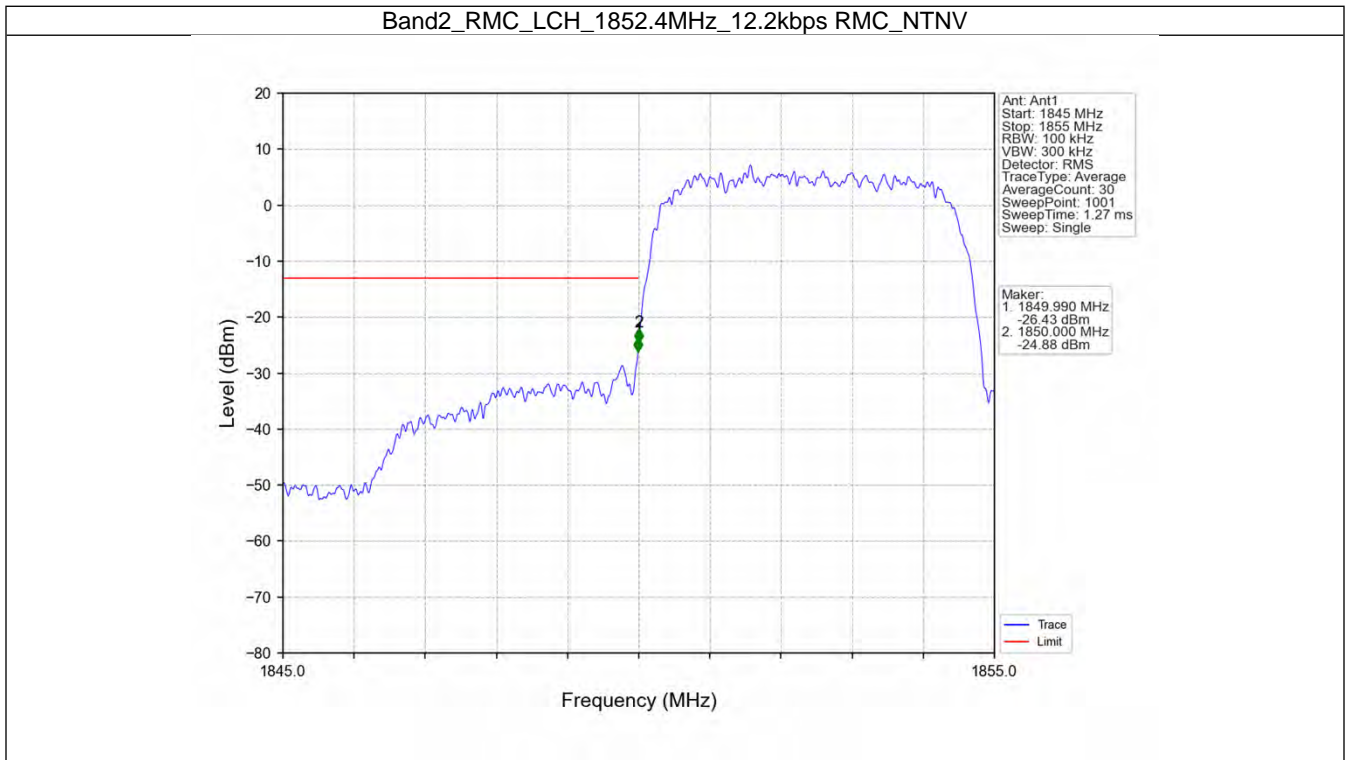
### 6.1 Band2

#### 6.1.1 Test Result

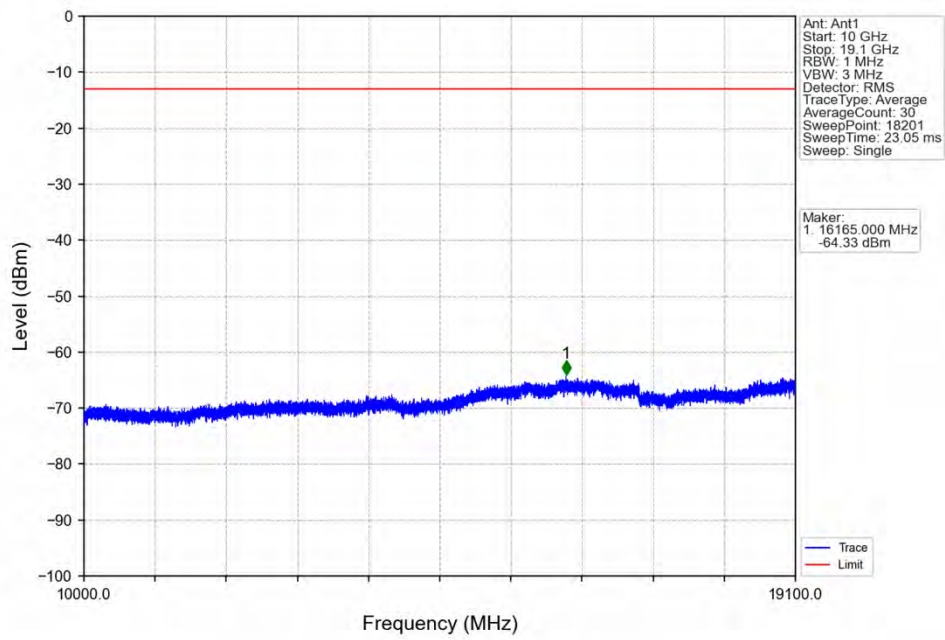
Band: 2						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1907.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph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



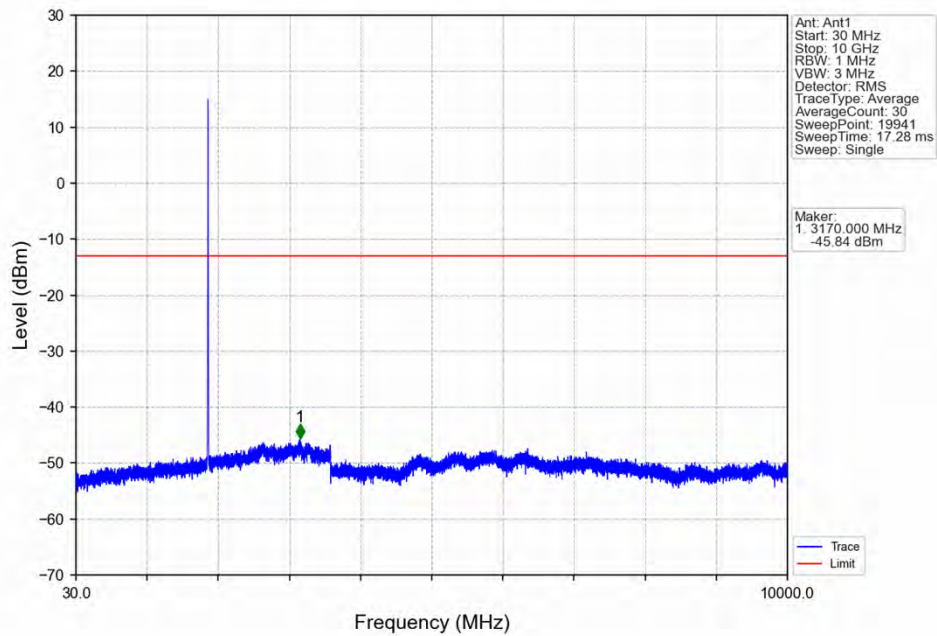
6.1.2 Test Graph



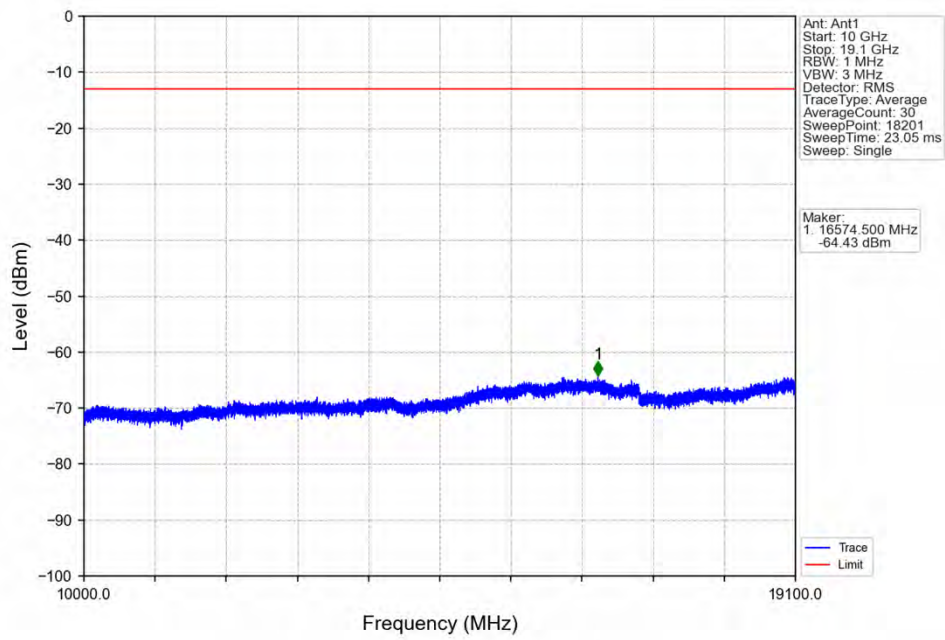
Band2\_RMC\_LCH\_1852.4MHz\_12.2kbps RMC\_NTNV



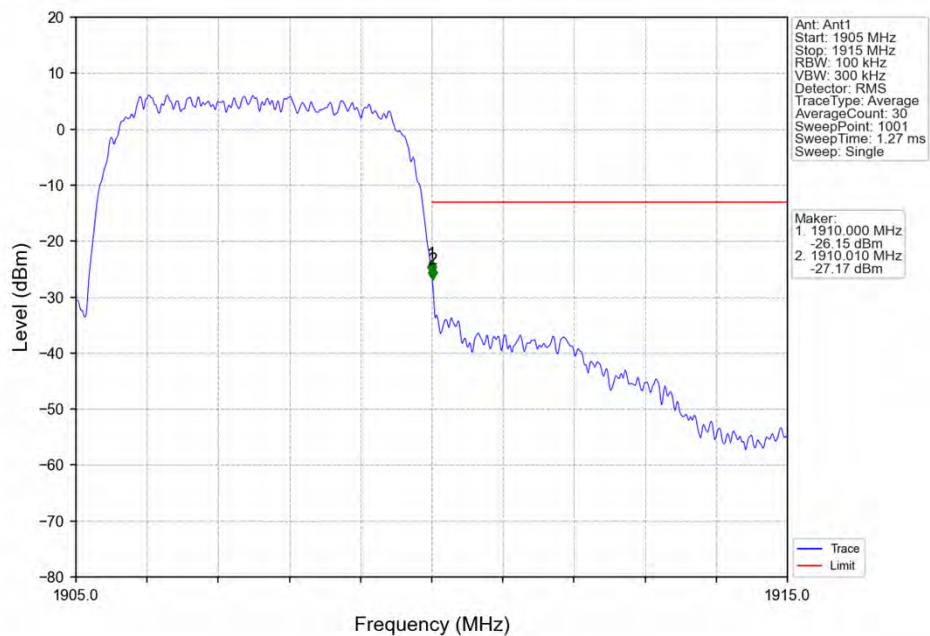
Band2\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



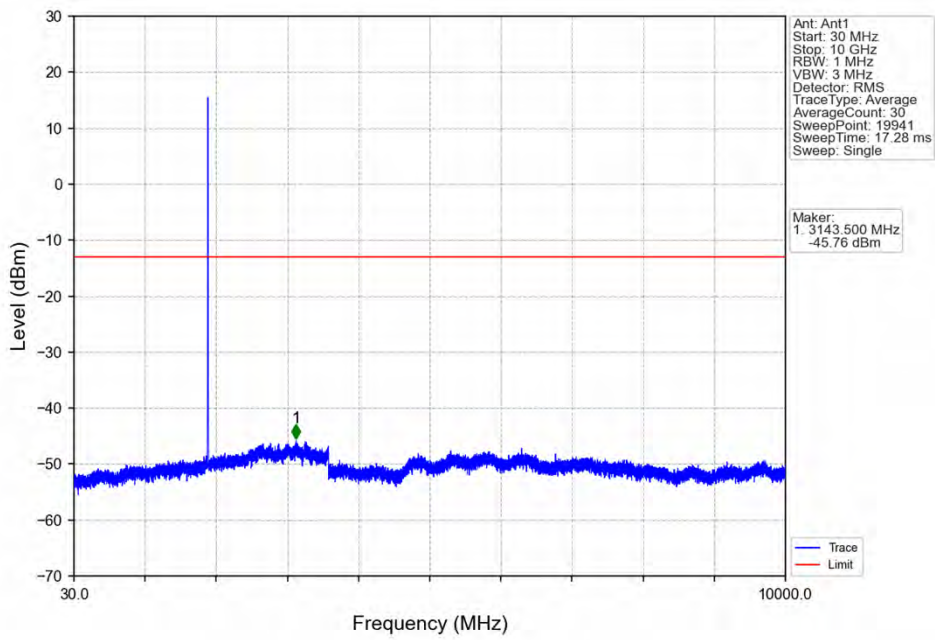
Band2\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



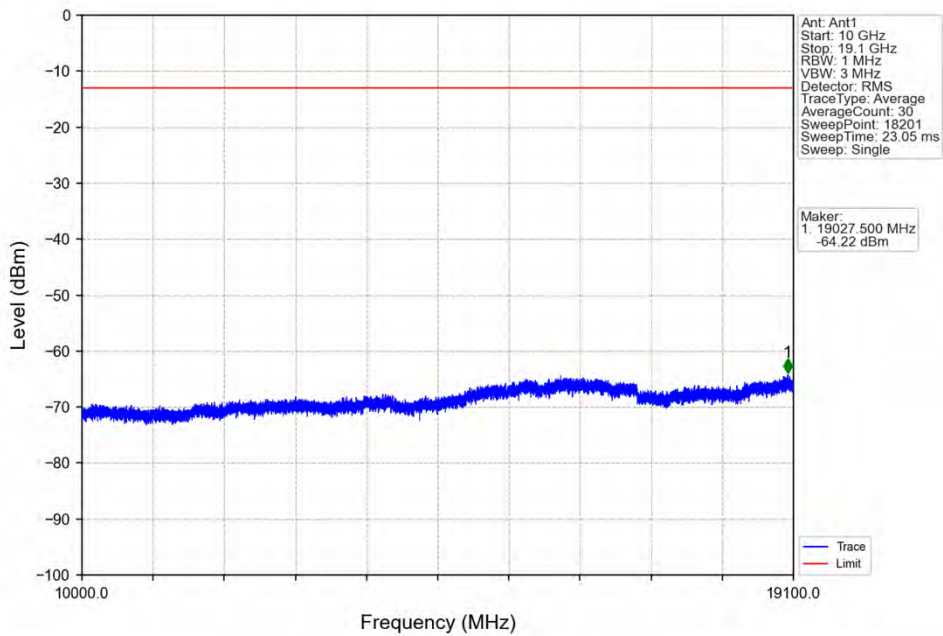
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



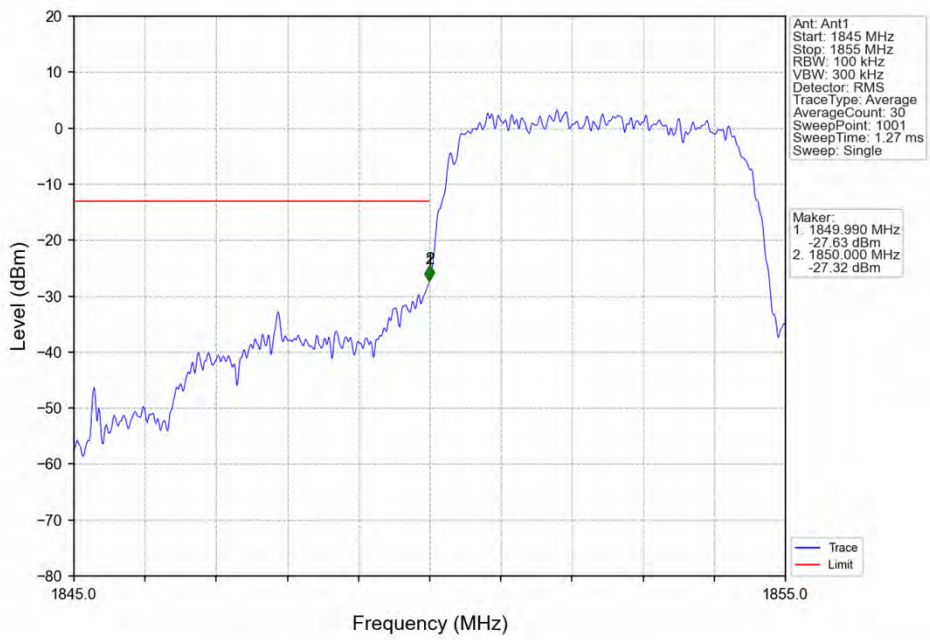
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



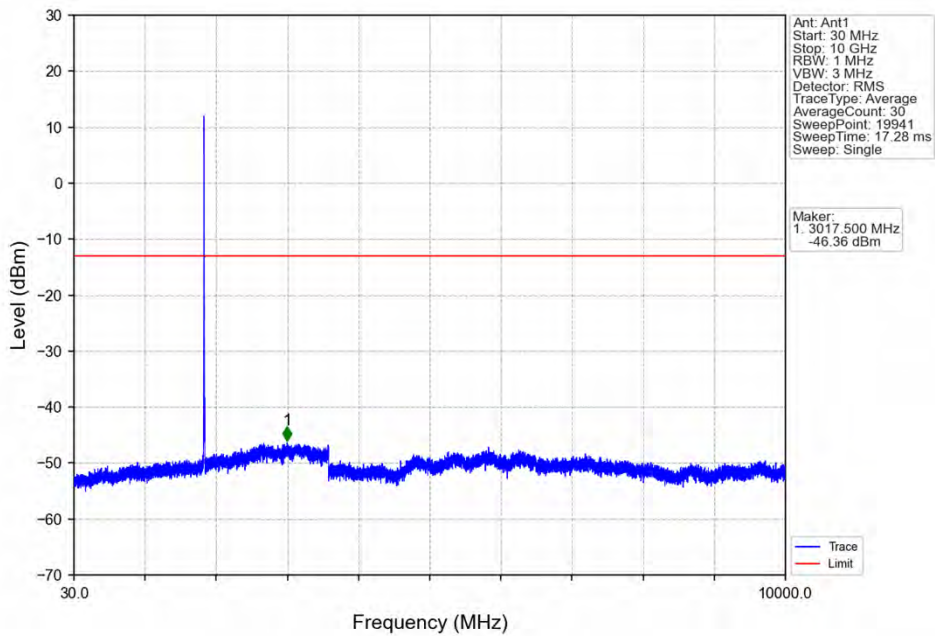
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



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

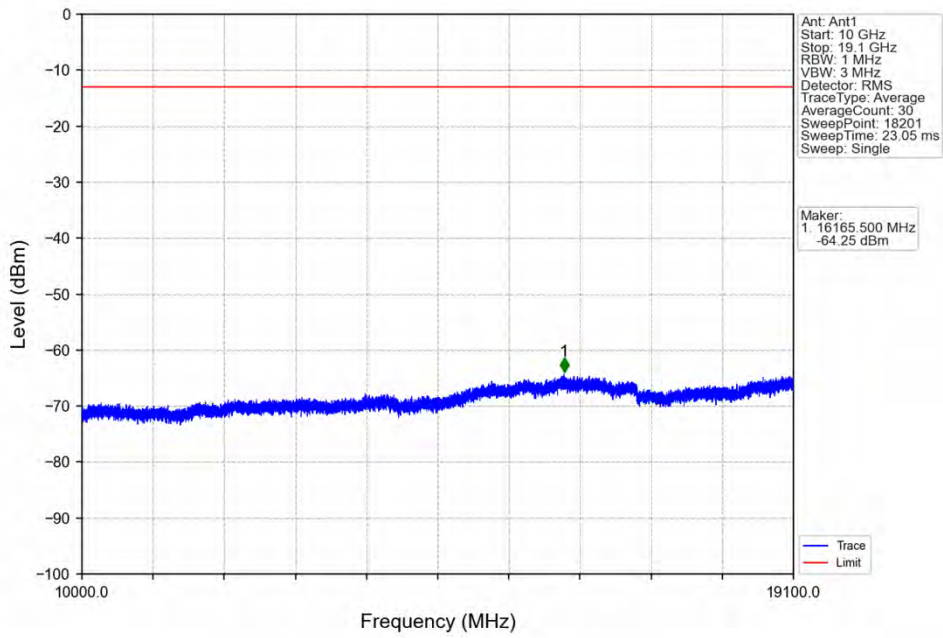


Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV

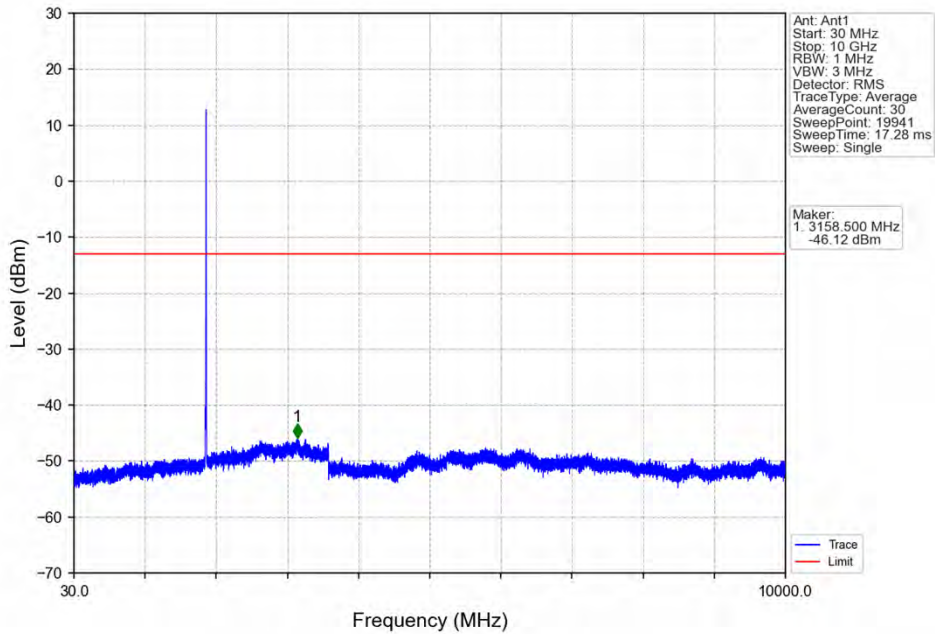




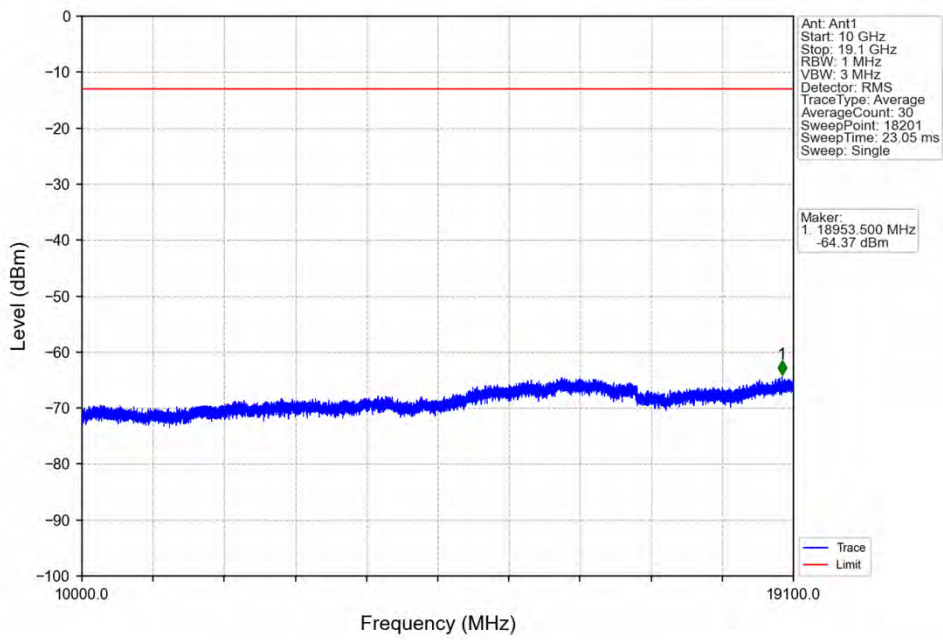
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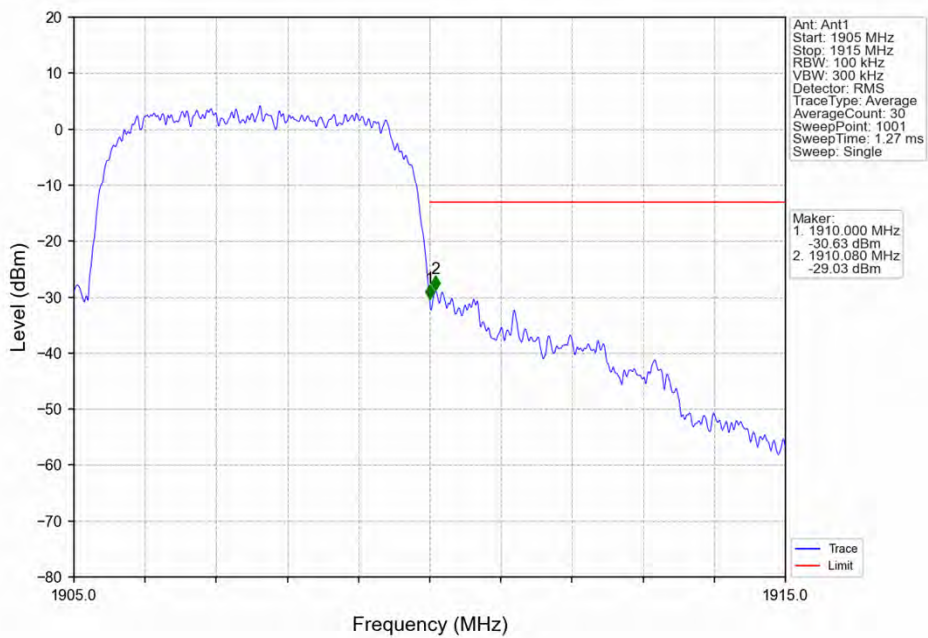
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



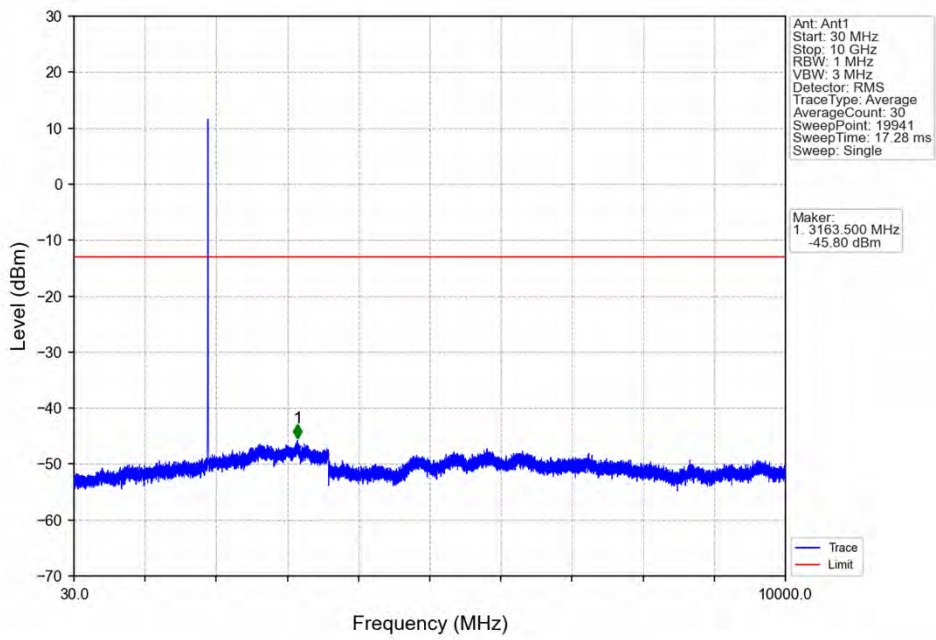
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



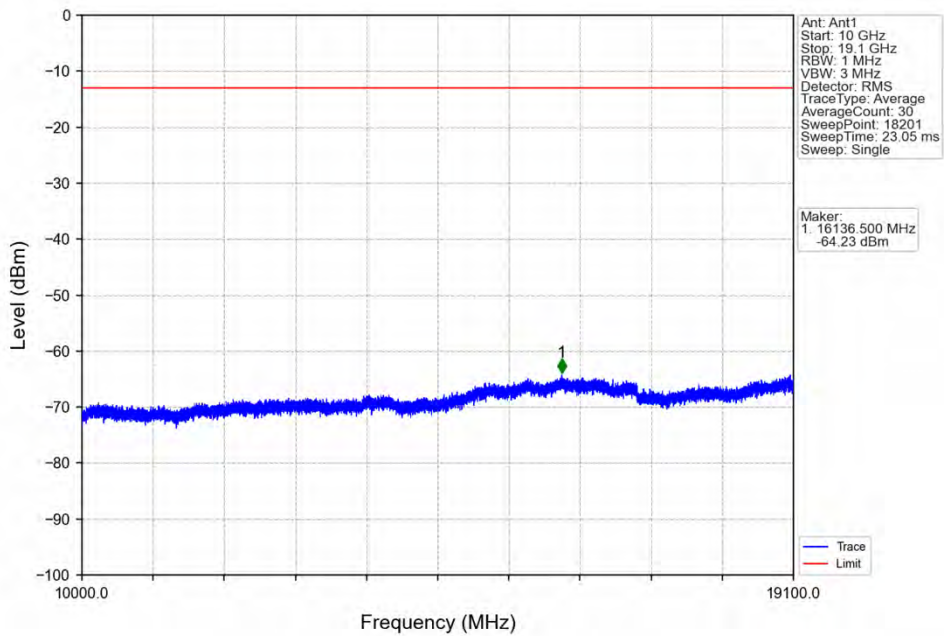
Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



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

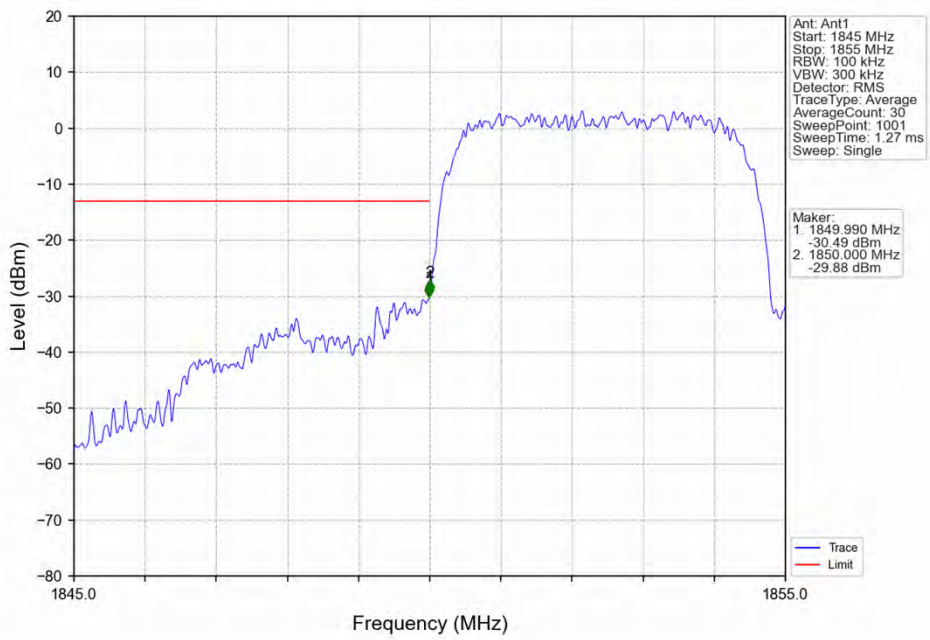


Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV

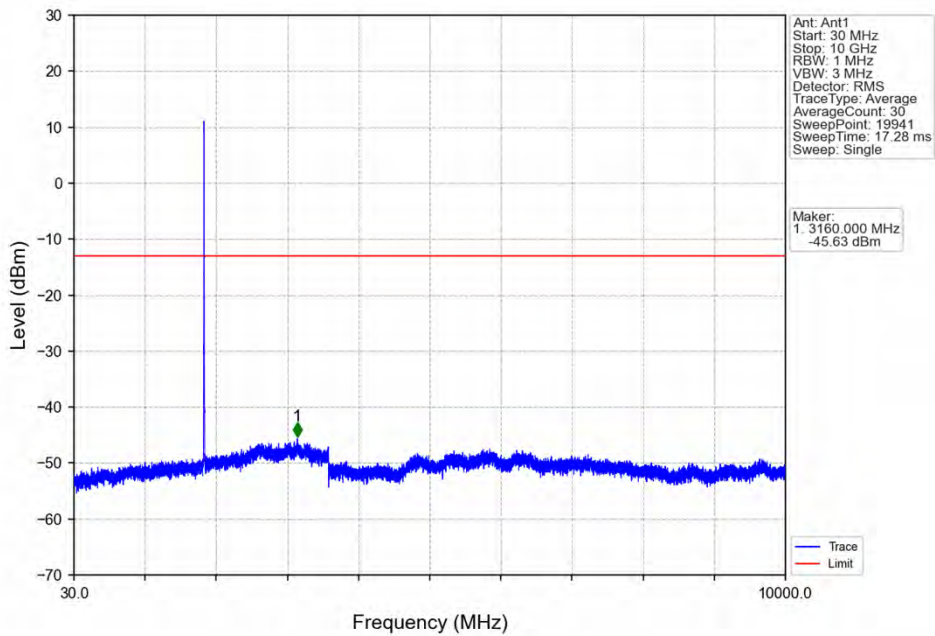




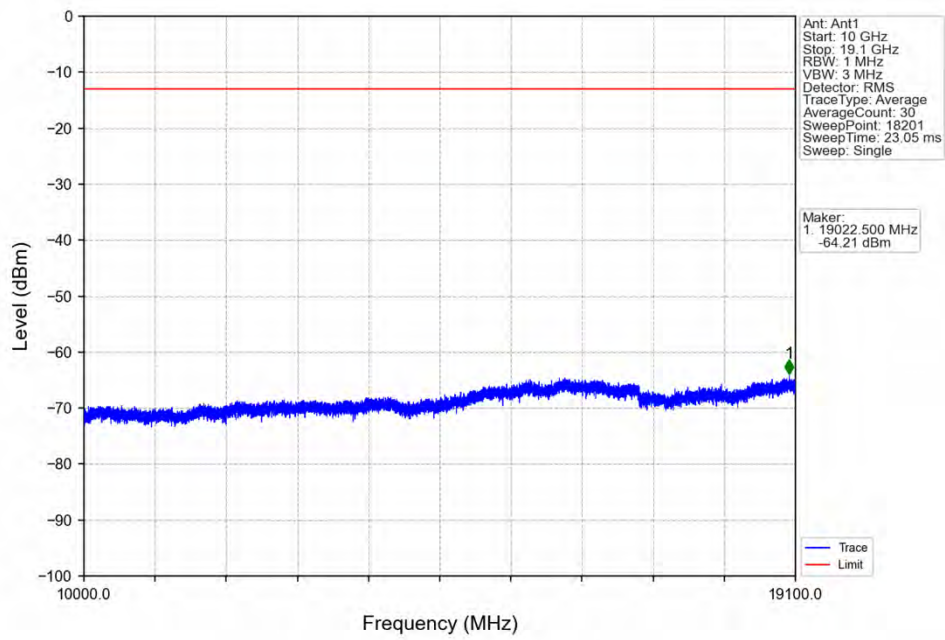
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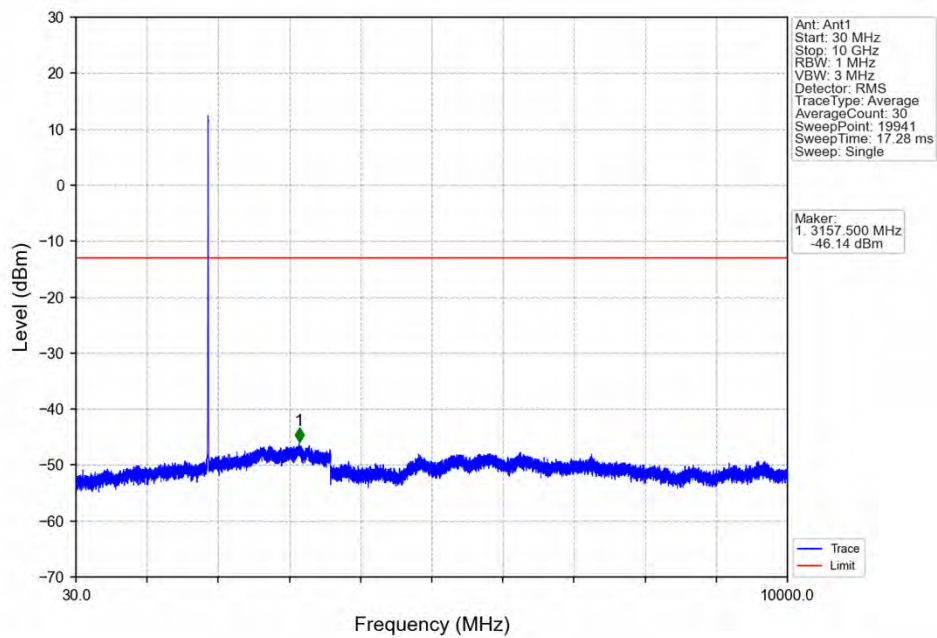
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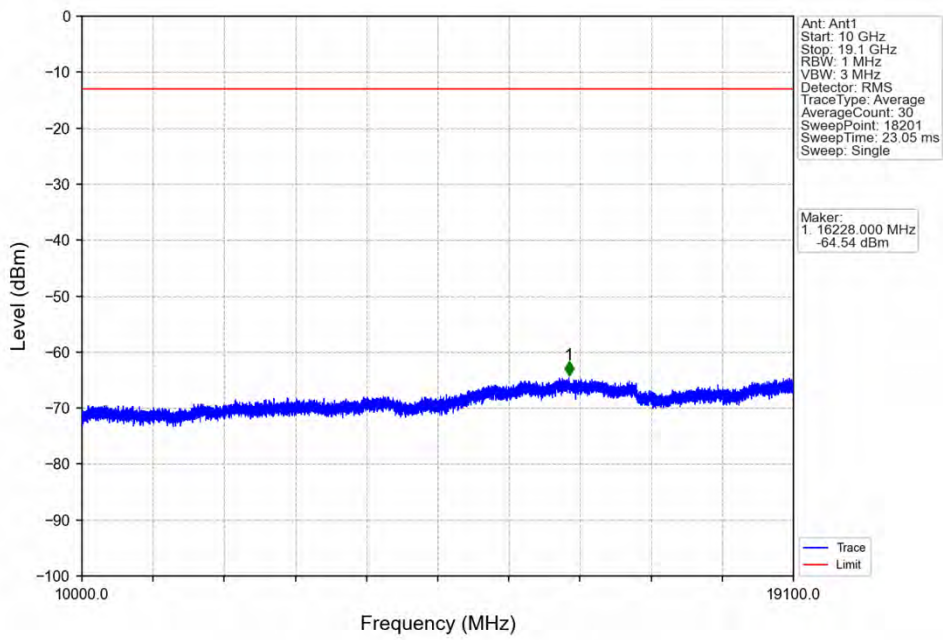
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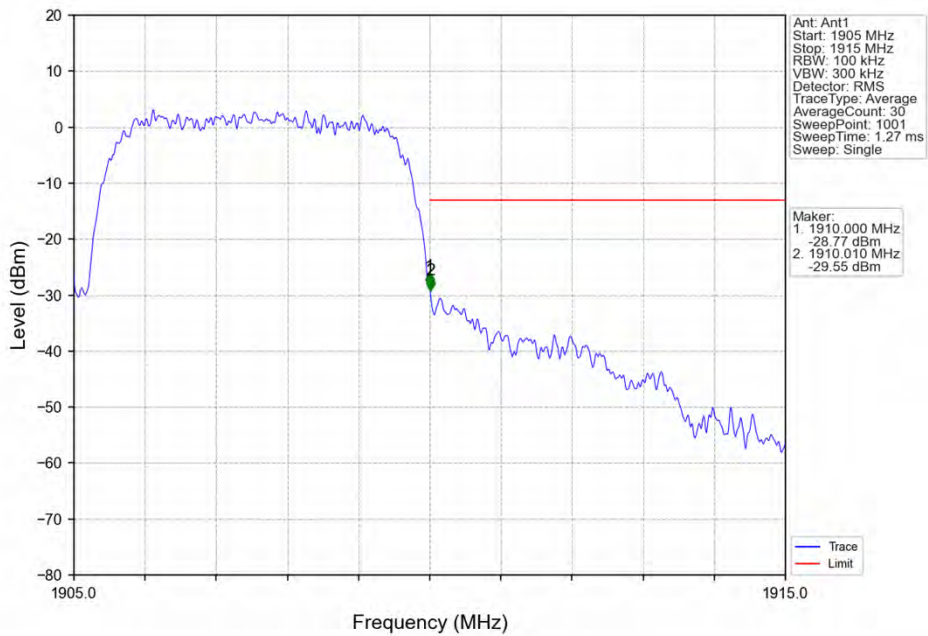
Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



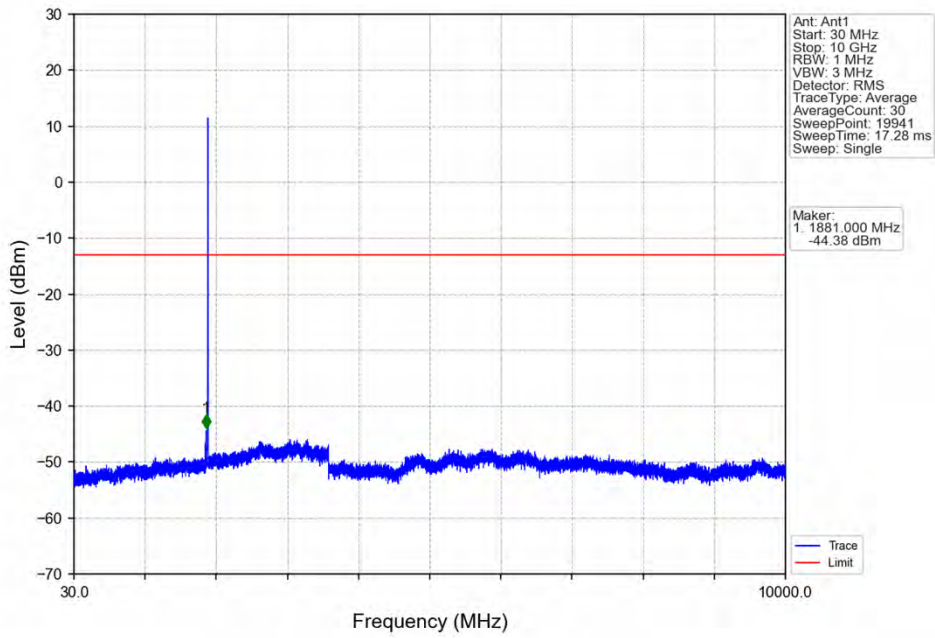
Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



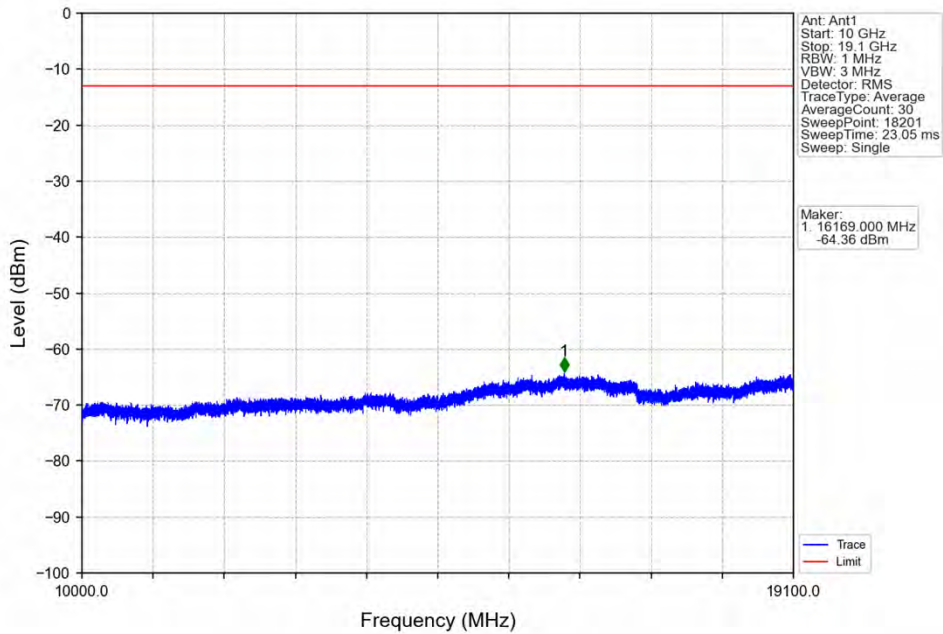
Band2\_HSUPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



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



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



## 7. Form731

### 7.1 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	0.1746	0.0094	ppm	4M18F9W	24E	22.42

### 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	0.1875	0.0094	ppm	4M18F9W	24E	22.73