

Appendix for KSEM210900155201(SHEM2107007586CR)

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band2\_EIRP

1.1.1 Test Result

ENV	Band: 2							Verdict		
	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)				
	Network	Subset				Result	Limit			
NTNV	RMC	12.2kbps RMC	1852.4	21.77	3.15	24.92	<=33.01	Pass		
			1880	21.66	3.15	24.81	<=33.01	Pass		
			1907.6	21.28	3.15	24.43	<=33.01	Pass		
	HSDPA	Subtest 1-4	1852.4	18.90	3.15	22.05	<=33.01	Pass		
			1852.4	18.86	3.15	22.01	<=33.01	Pass		
			1852.4	18.82	3.15	21.97	<=33.01	Pass		
			1852.4	18.83	3.15	21.98	<=33.01	Pass		
			1880	19.11	3.15	22.26	<=33.01	Pass		
			1880	19.05	3.15	22.20	<=33.01	Pass		
			1880	19.05	3.15	22.20	<=33.01	Pass		
			1880	19.07	3.15	22.22	<=33.01	Pass		
			1907.6	18.83	3.15	21.98	<=33.01	Pass		
			1907.6	18.77	3.15	21.92	<=33.01	Pass		
			1907.6	18.73	3.15	21.88	<=33.01	Pass		
			1907.6	18.75	3.15	21.90	<=33.01	Pass		
			HSUPA	Subtest 1-5	1852.4	17.39	3.15	20.54	<=33.01	Pass
					1852.4	16.33	3.15	19.48	<=33.01	Pass
					1852.4	16.86	3.15	20.01	<=33.01	Pass
					1852.4	17.60	3.15	20.75	<=33.01	Pass
					1852.4	16.78	3.15	19.93	<=33.01	Pass
	1880	17.11			3.15	20.26	<=33.01	Pass		
	1880	16.77			3.15	19.92	<=33.01	Pass		
	1880	17.09			3.15	20.24	<=33.01	Pass		
	1880	17.63			3.15	20.78	<=33.01	Pass		
	1880	17.14			3.15	20.29	<=33.01	Pass		
	1907.6	17.14			3.15	20.29	<=33.01	Pass		
	1907.6	16.59			3.15	19.74	<=33.01	Pass		
	1907.6	17.26			3.15	20.41	<=33.01	Pass		
	1907.6	16.74	3.15	19.89	<=33.01	Pass				
	1907.6	16.89	3.15	20.04	<=33.01	Pass				

Note1: EIRP=Conducted Power+Antenna Gain



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## 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	13.55	0.01	-2.5 to 2.5	Pass
			3.85	10.48	0.01	-2.5 to 2.5	Pass
			4.43	18.30	0.01	-2.5 to 2.5	Pass
		-30	3.85	11.56	0.01	-2.5 to 2.5	Pass
		-20	3.85	18.50	0.01	-2.5 to 2.5	Pass
		-10	3.85	17.75	0.01	-2.5 to 2.5	Pass
		0	3.85	15.46	0.01	-2.5 to 2.5	Pass
		10	3.85	16.56	0.01	-2.5 to 2.5	Pass
		30	3.85	16.42	0.01	-2.5 to 2.5	Pass
		40	3.85	13.53	0.01	-2.5 to 2.5	Pass
		50	3.85	16.21	0.01	-2.5 to 2.5	Pass
		60	3.85	16.23	0.01	-2.5 to 2.5	Pass
	70	3.85	16.25	0.01	-2.5 to 2.5	Pass	
	1880	20	3.27	13.83	0.01	-2.5 to 2.5	Pass
			3.85	14.00	0.01	-2.5 to 2.5	Pass
			4.43	10.61	0.01	-2.5 to 2.5	Pass
		-30	3.85	9.65	0.01	-2.5 to 2.5	Pass
		-20	3.85	16.54	0.01	-2.5 to 2.5	Pass
		-10	3.85	9.74	0.01	-2.5 to 2.5	Pass
		0	3.85	13.92	0.01	-2.5 to 2.5	Pass
		10	3.85	16.94	0.01	-2.5 to 2.5	Pass
		30	3.85	13.58	0.01	-2.5 to 2.5	Pass
		40	3.85	11.64	0.01	-2.5 to 2.5	Pass
		50	3.85	13.32	0.01	-2.5 to 2.5	Pass
		60	3.85	13.28	0.01	-2.5 to 2.5	Pass
	70	3.85	13.32	0.01	-2.5 to 2.5	Pass	
	1907.6	20	3.27	3.50	0.00	-2.5 to 2.5	Pass
			3.85	0.87	0.00	-2.5 to 2.5	Pass
			4.43	7.76	0.00	-2.5 to 2.5	Pass
		-30	3.85	1.61	0.00	-2.5 to 2.5	Pass
-20		3.85	2.99	0.00	-2.5 to 2.5	Pass	
-10		3.85	4.79	0.00	-2.5 to 2.5	Pass	
0		3.85	1.86	0.00	-2.5 to 2.5	Pass	
10		3.85	-1.67	-0.00	-2.5 to 2.5	Pass	
30		3.85	2.47	0.00	-2.5 to 2.5	Pass	
40		3.85	5.88	0.00	-2.5 to 2.5	Pass	
50		3.85	2.47	0.00	-2.5 to 2.5	Pass	
60		3.85	2.41	0.00	-2.5 to 2.5	Pass	



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HSDPA	1852.4	70	3.85	2.52	0.00	-2.5 to 2.5	Pass	
		20	3.27	8.28	0.00	-2.5 to 2.5	Pass	
			3.85	8.68	0.00	-2.5 to 2.5	Pass	
		20	4.43	9.03	0.00	-2.5 to 2.5	Pass	
			3.85	9.80	0.01	-2.5 to 2.5	Pass	
		-20	3.85	6.62	0.00	-2.5 to 2.5	Pass	
		-10	3.85	9.02	0.00	-2.5 to 2.5	Pass	
		0	3.85	10.78	0.01	-2.5 to 2.5	Pass	
		10	3.85	5.32	0.00	-2.5 to 2.5	Pass	
		30	3.85	8.45	0.00	-2.5 to 2.5	Pass	
		40	3.85	10.66	0.01	-2.5 to 2.5	Pass	
		50	3.85	2.20	0.00	-2.5 to 2.5	Pass	
		60	3.85	2.19	0.00	-2.5 to 2.5	Pass	
		70	3.85	2.22	0.00	-2.5 to 2.5	Pass	
	1880	20	3.27	7.00	0.00	-2.5 to 2.5	Pass	
			3.85	6.42	0.00	-2.5 to 2.5	Pass	
			4.43	5.83	0.00	-2.5 to 2.5	Pass	
		-30	3.85	2.23	0.00	-2.5 to 2.5	Pass	
		-20	3.85	0.33	0.00	-2.5 to 2.5	Pass	
		-10	3.85	7.30	0.00	-2.5 to 2.5	Pass	
		0	3.85	3.03	0.00	-2.5 to 2.5	Pass	
		10	3.85	5.52	0.00	-2.5 to 2.5	Pass	
		30	3.85	7.10	0.00	-2.5 to 2.5	Pass	
		40	3.85	5.08	0.00	-2.5 to 2.5	Pass	
		50	3.85	4.13	0.00	-2.5 to 2.5	Pass	
		60	3.85	4.87	0.00	-2.5 to 2.5	Pass	
		70	3.85	4.93	0.00	-2.5 to 2.5	Pass	
		1907.6	20	3.27	-6.24	-0.00	-2.5 to 2.5	Pass
	3.85			1.90	0.00	-2.5 to 2.5	Pass	
	4.43			-5.98	-0.00	-2.5 to 2.5	Pass	
	-30		3.85	-6.12	-0.00	-2.5 to 2.5	Pass	
	-20		3.85	-9.64	-0.01	-2.5 to 2.5	Pass	
	-10		3.85	-4.67	-0.00	-2.5 to 2.5	Pass	
	0		3.85	-6.13	-0.00	-2.5 to 2.5	Pass	
	10		3.85	-6.16	-0.00	-2.5 to 2.5	Pass	
	30		3.85	-7.48	-0.00	-2.5 to 2.5	Pass	
	40		3.85	-9.83	-0.01	-2.5 to 2.5	Pass	
	50		3.85	-3.41	-0.00	-2.5 to 2.5	Pass	
	60		3.85	-9.79	-0.01	-2.5 to 2.5	Pass	
	70		3.85	-3.46	-0.00	-2.5 to 2.5	Pass	
	HSUPA		1852.4	20	3.27	4.22	0.00	-2.5 to 2.5
		3.85			1.95	0.00	-2.5 to 2.5	Pass
4.43		2.42			0.00	-2.5 to 2.5	Pass	
-30		3.85		7.80	0.00	-2.5 to 2.5	Pass	
-20		3.85		5.39	0.00	-2.5 to 2.5	Pass	
-10		3.85		4.30	0.00	-2.5 to 2.5	Pass	
0		3.85		3.38	0.00	-2.5 to 2.5	Pass	
10		3.85		4.63	0.00	-2.5 to 2.5	Pass	



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	1880	30	3.85	-0.26	-0.00	-2.5 to 2.5	Pass
		40	3.85	-0.77	-0.00	-2.5 to 2.5	Pass
		50	3.85	0.59	0.00	-2.5 to 2.5	Pass
		60	3.85	4.34	0.00	-2.5 to 2.5	Pass
		70	3.85	3.36	0.00	-2.5 to 2.5	Pass
	1880	20	3.27	-1.52	-0.00	-2.5 to 2.5	Pass
			3.85	0.33	0.00	-2.5 to 2.5	Pass
			4.43	4.05	0.00	-2.5 to 2.5	Pass
		-30	3.85	1.38	0.00	-2.5 to 2.5	Pass
		-20	3.85	-0.37	-0.00	-2.5 to 2.5	Pass
		-10	3.85	-0.22	-0.00	-2.5 to 2.5	Pass
		0	3.85	6.00	0.00	-2.5 to 2.5	Pass
		10	3.85	1.61	0.00	-2.5 to 2.5	Pass
		30	3.85	-2.42	-0.00	-2.5 to 2.5	Pass
		40	3.85	-5.42	-0.00	-2.5 to 2.5	Pass
		50	3.85	2.28	0.00	-2.5 to 2.5	Pass
		60	3.85	-2.47	-0.00	-2.5 to 2.5	Pass
		70	3.85	-4.99	-0.00	-2.5 to 2.5	Pass
	1907.6	20	3.27	-6.81	-0.00	-2.5 to 2.5	Pass
			3.85	-13.33	-0.01	-2.5 to 2.5	Pass
			4.43	-13.37	-0.01	-2.5 to 2.5	Pass
		-30	3.85	-6.22	-0.00	-2.5 to 2.5	Pass
		-20	3.85	-11.94	-0.01	-2.5 to 2.5	Pass
		-10	3.85	-8.74	-0.00	-2.5 to 2.5	Pass
		0	3.85	-9.85	-0.01	-2.5 to 2.5	Pass
		10	3.85	-0.46	-0.00	-2.5 to 2.5	Pass
		30	3.85	-4.21	-0.00	-2.5 to 2.5	Pass
		40	3.85	-8.83	-0.00	-2.5 to 2.5	Pass
50	3.85	-17.65	-0.01	-2.5 to 2.5	Pass		
60	3.85	-8.69	-0.00	-2.5 to 2.5	Pass		
70	3.85	-9.92	-0.01	-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

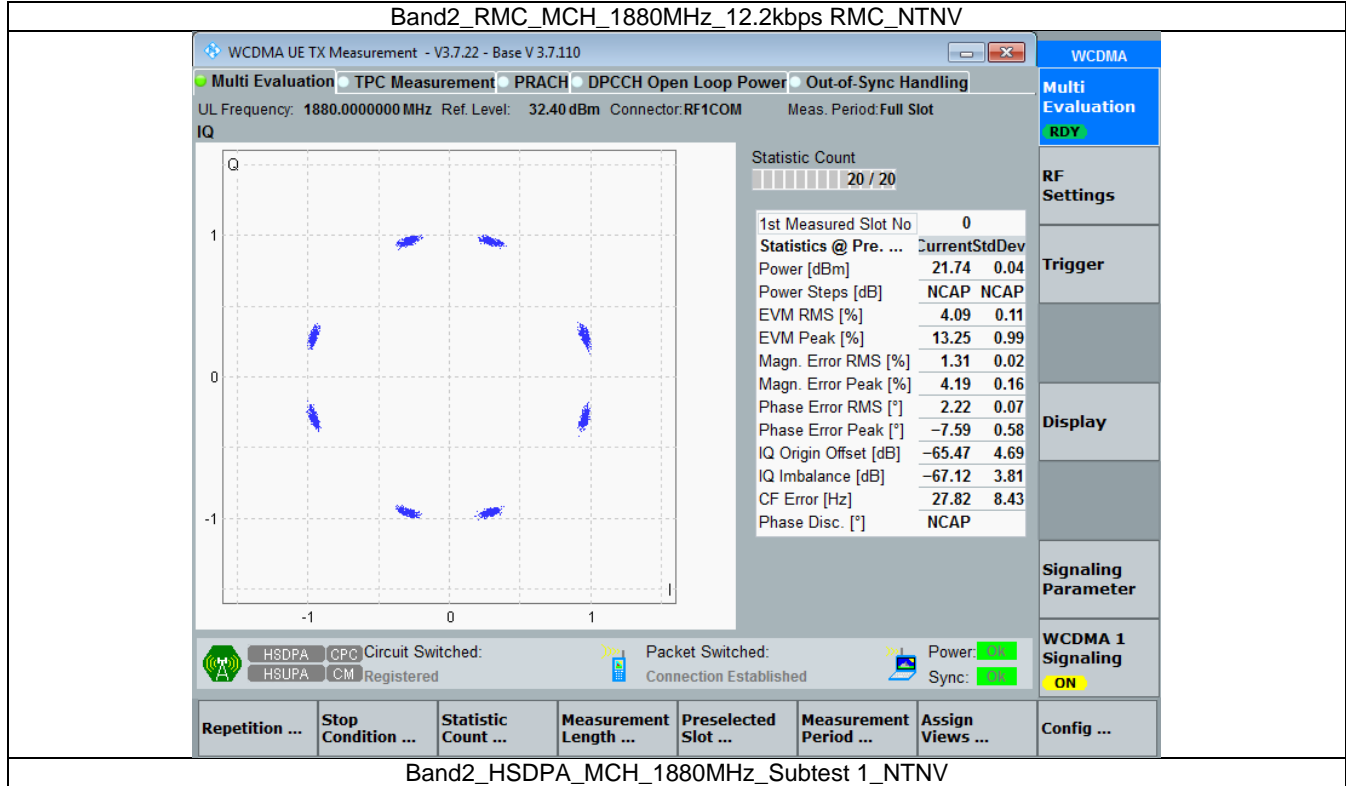


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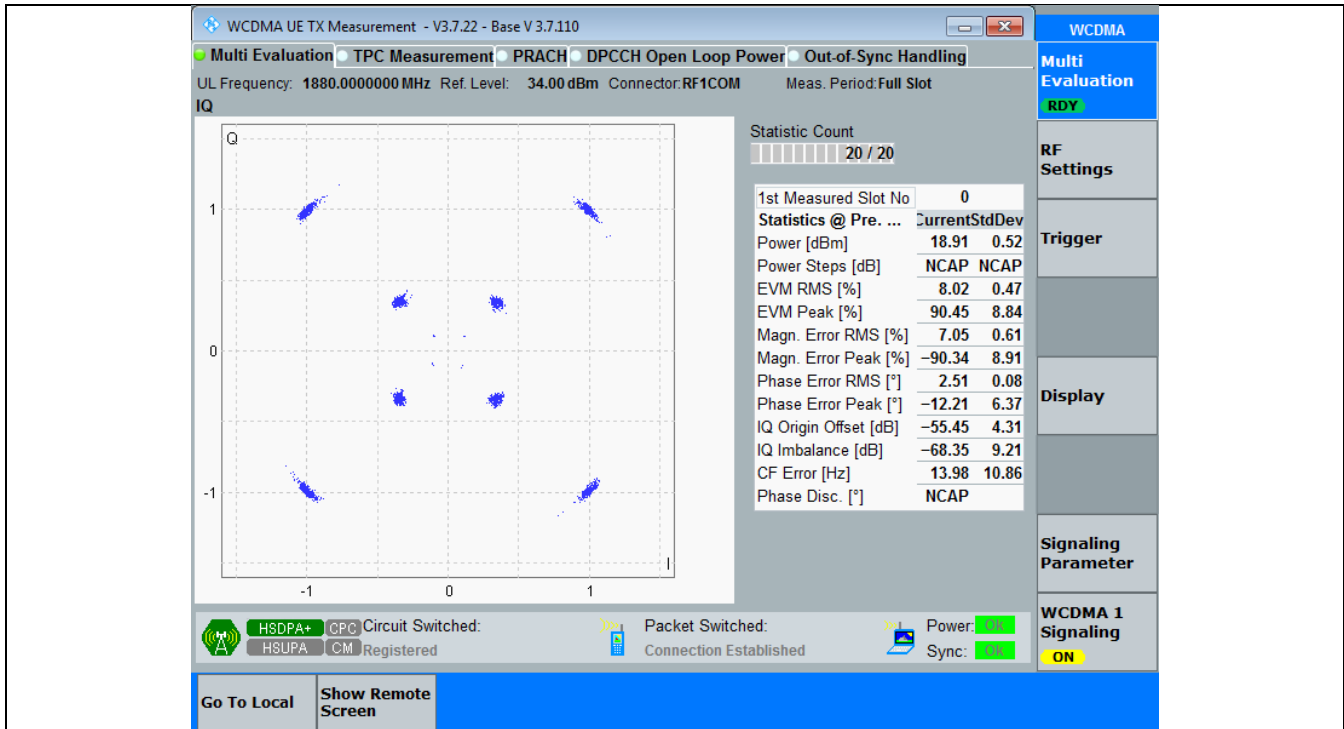
### 3.1.2 Test Graph



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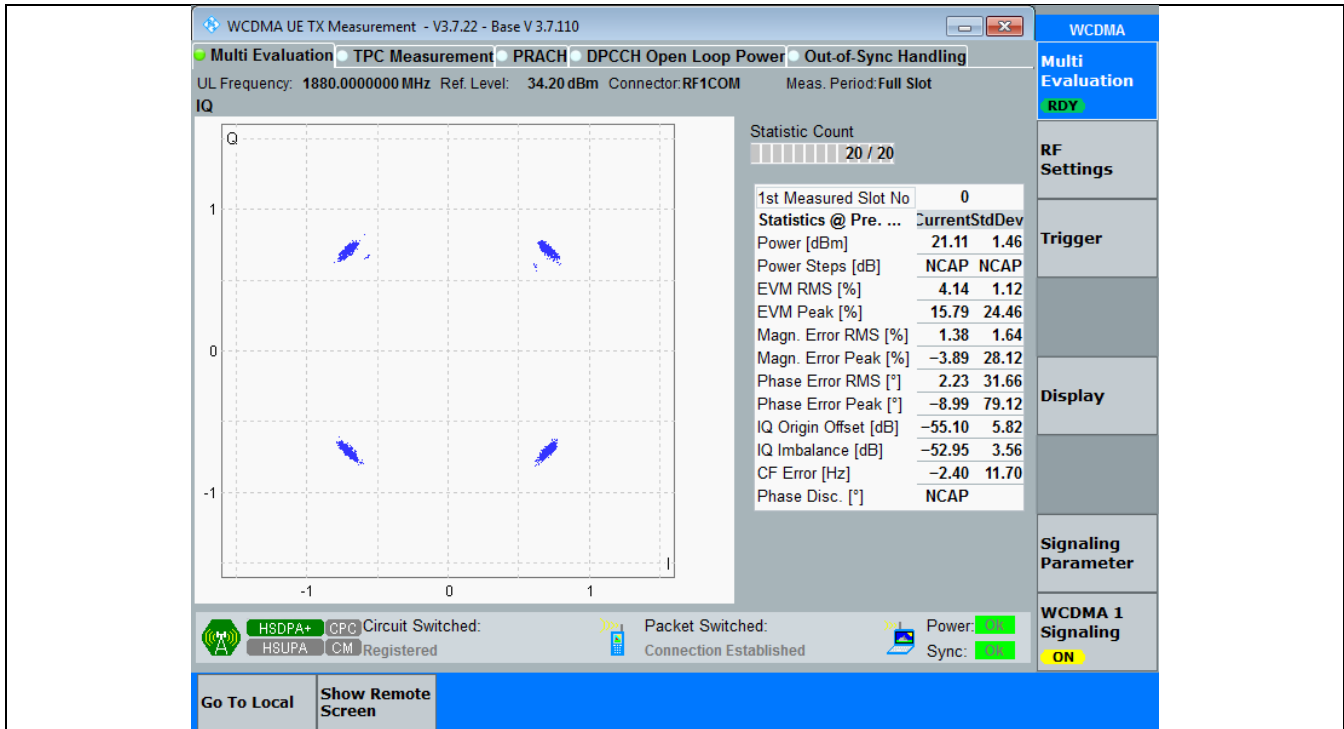
Band2\_HSPA\_MCH\_1880MHz\_Subtest 1\_NTNV



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## 4. 99% & 26dB Bandwidth

### 4.1 Band2\_OBW

#### 4.1.1 Test Result

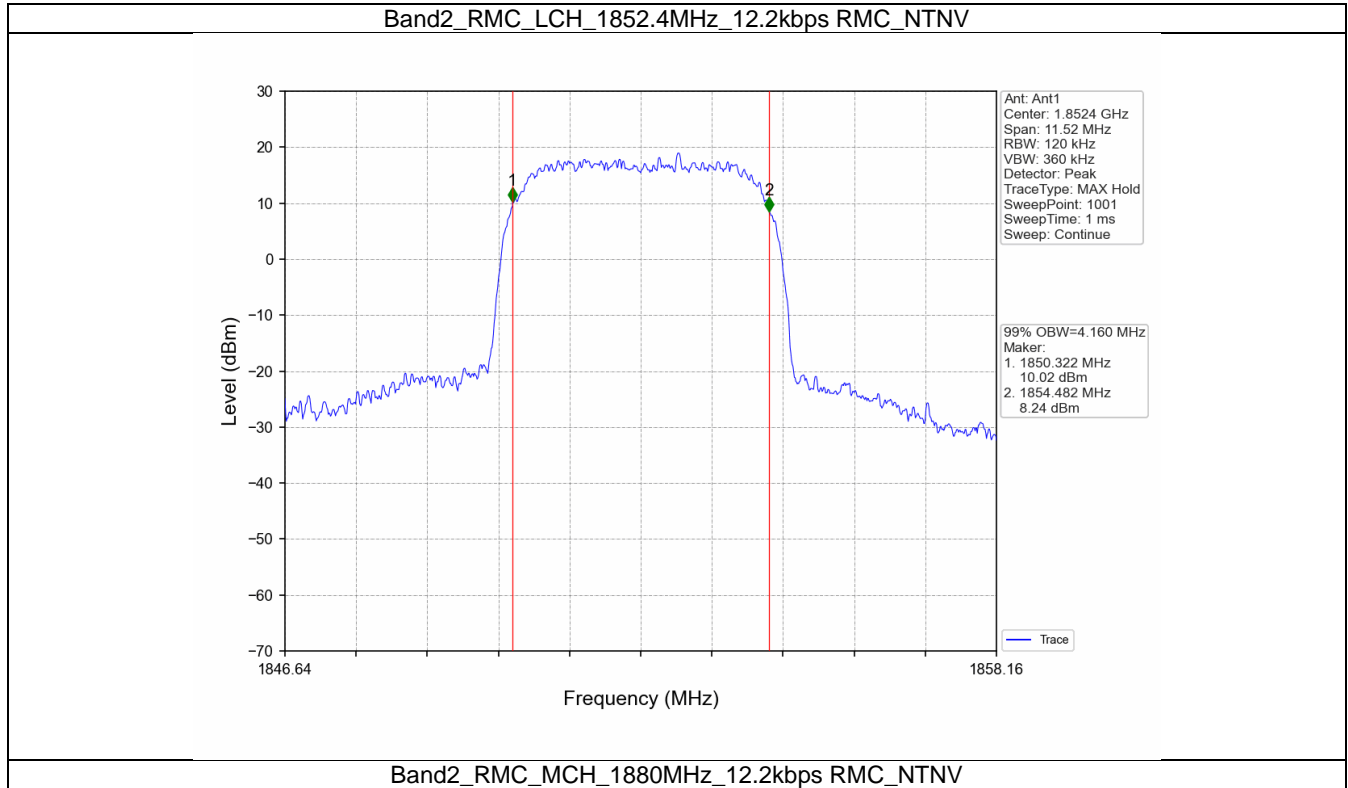
Band: 2						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result		
NTNV	RMC	12.2kbps RMC	1852.4	4.160	Pass	
			1880	4.161	Pass	
			1907.6	4.175	Pass	
	HSDPA	Subtest 1	1852.4	4.171	Pass	
			1880	4.167	Pass	
			1907.6	4.162	Pass	
	HSUPA	Subtest 1	1852.4	4.167	Pass	
			1880	4.152	Pass	
			1907.6	4.147	Pass	



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### 4.1.2 Test Graph



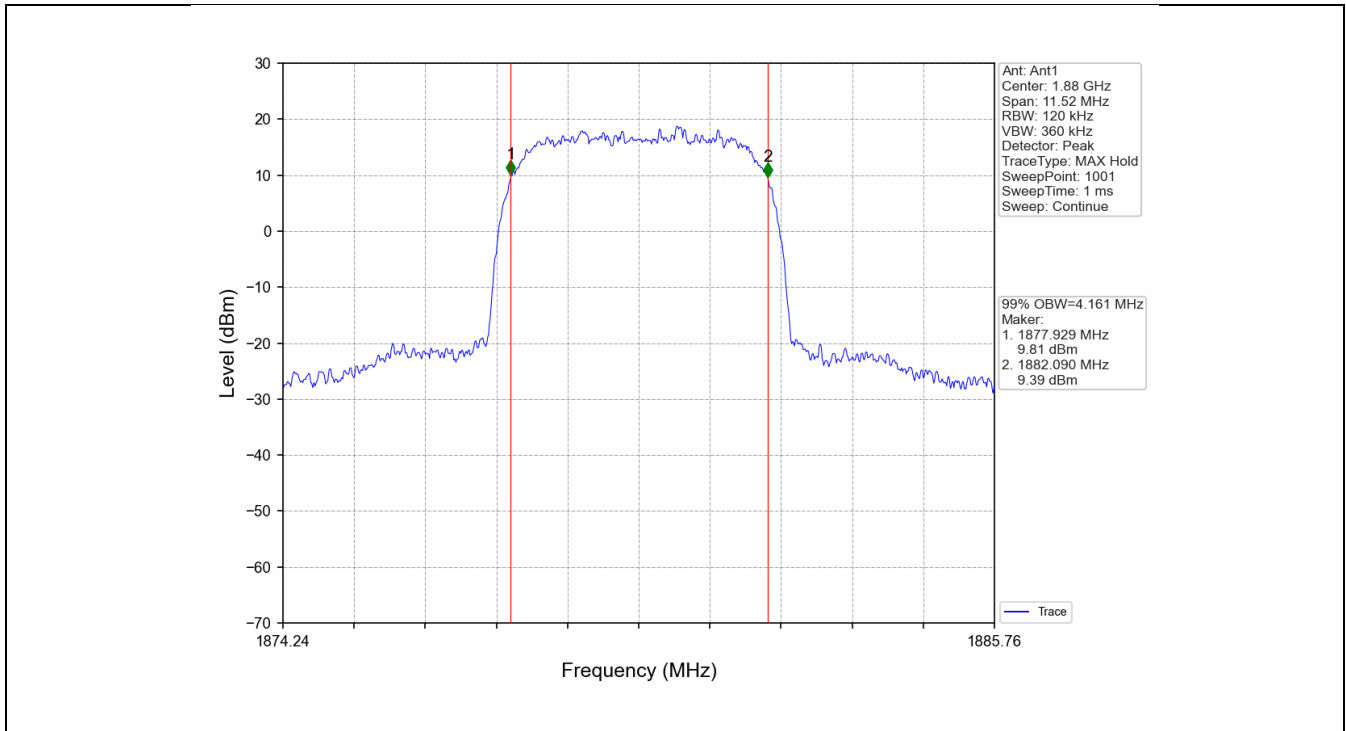
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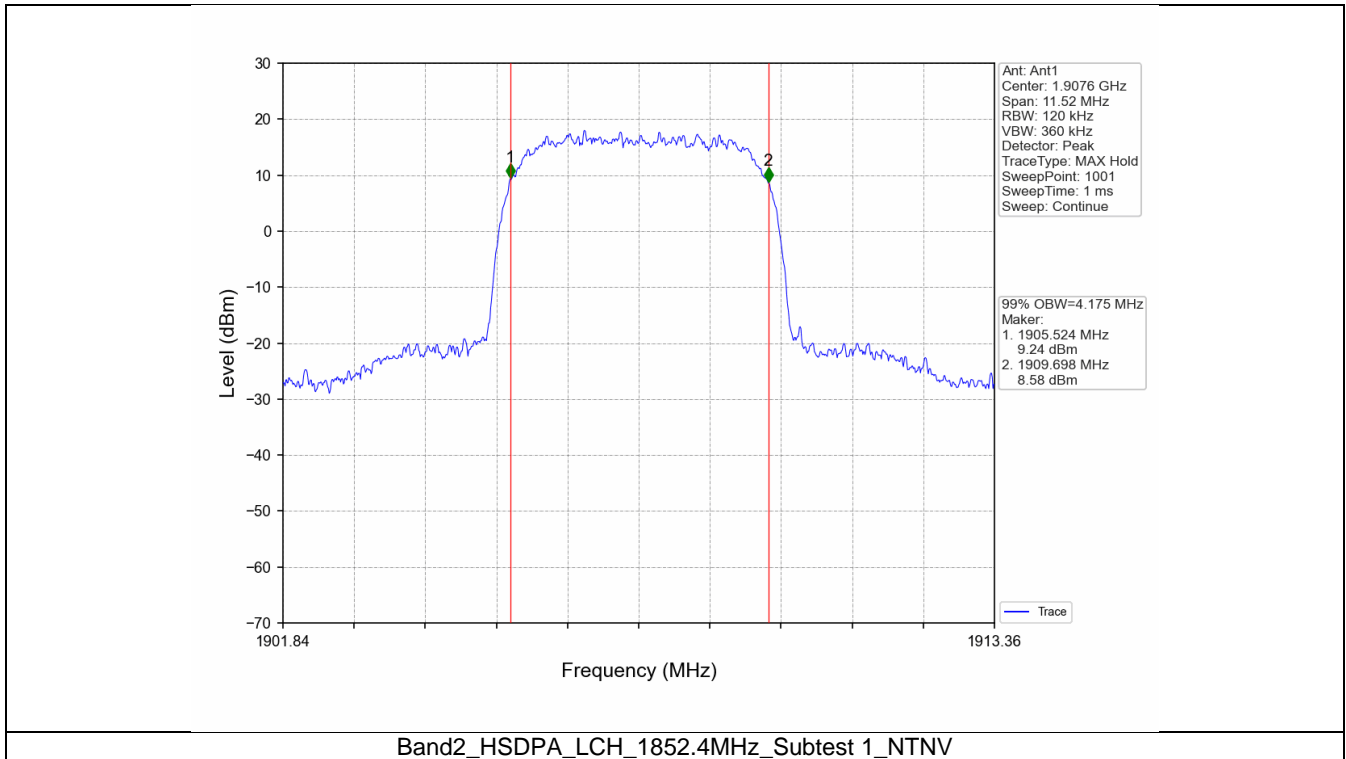


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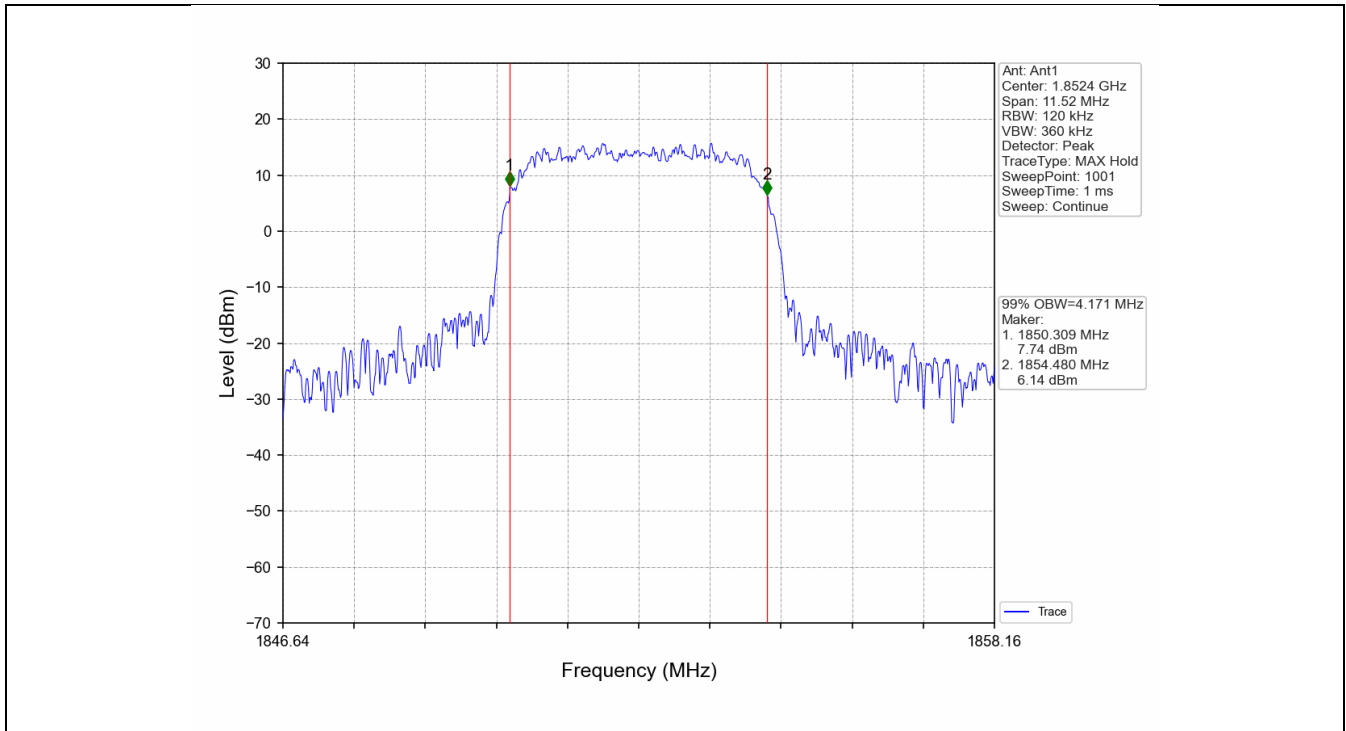


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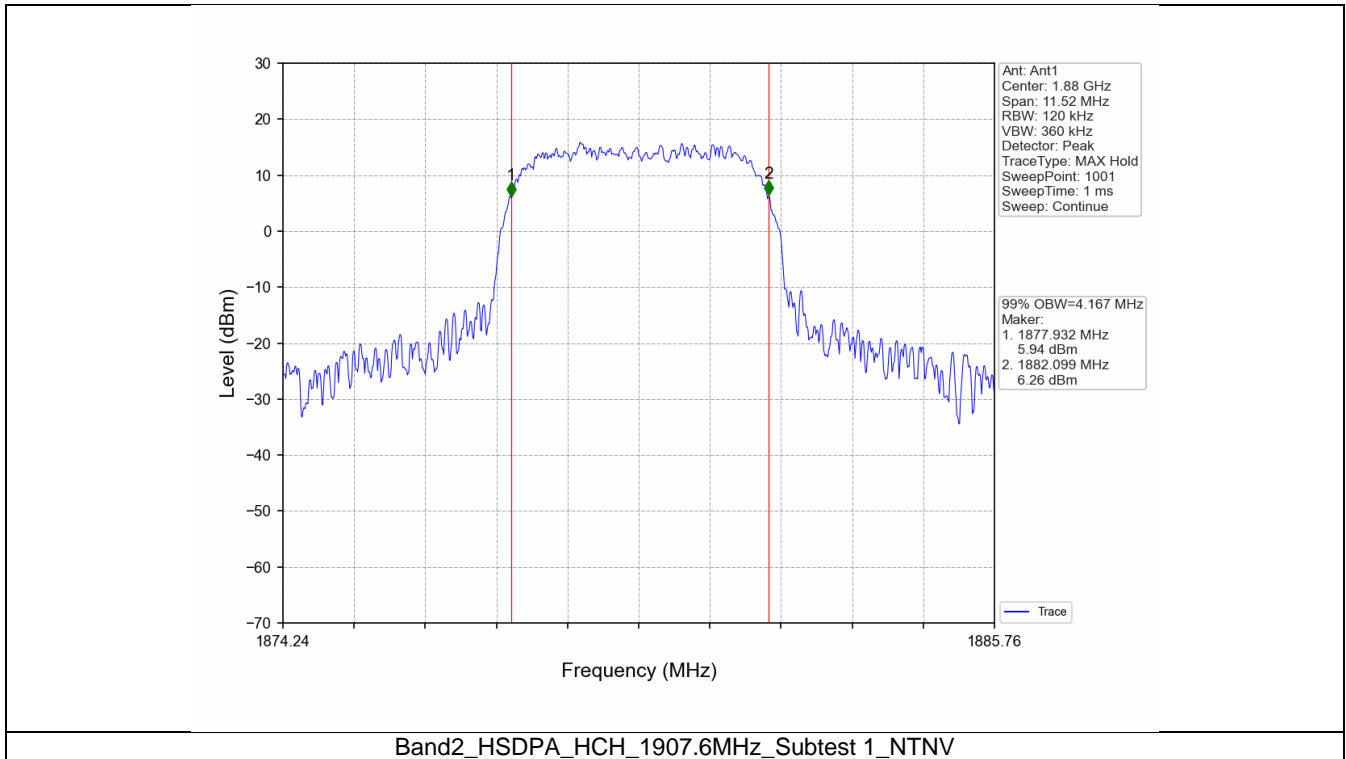


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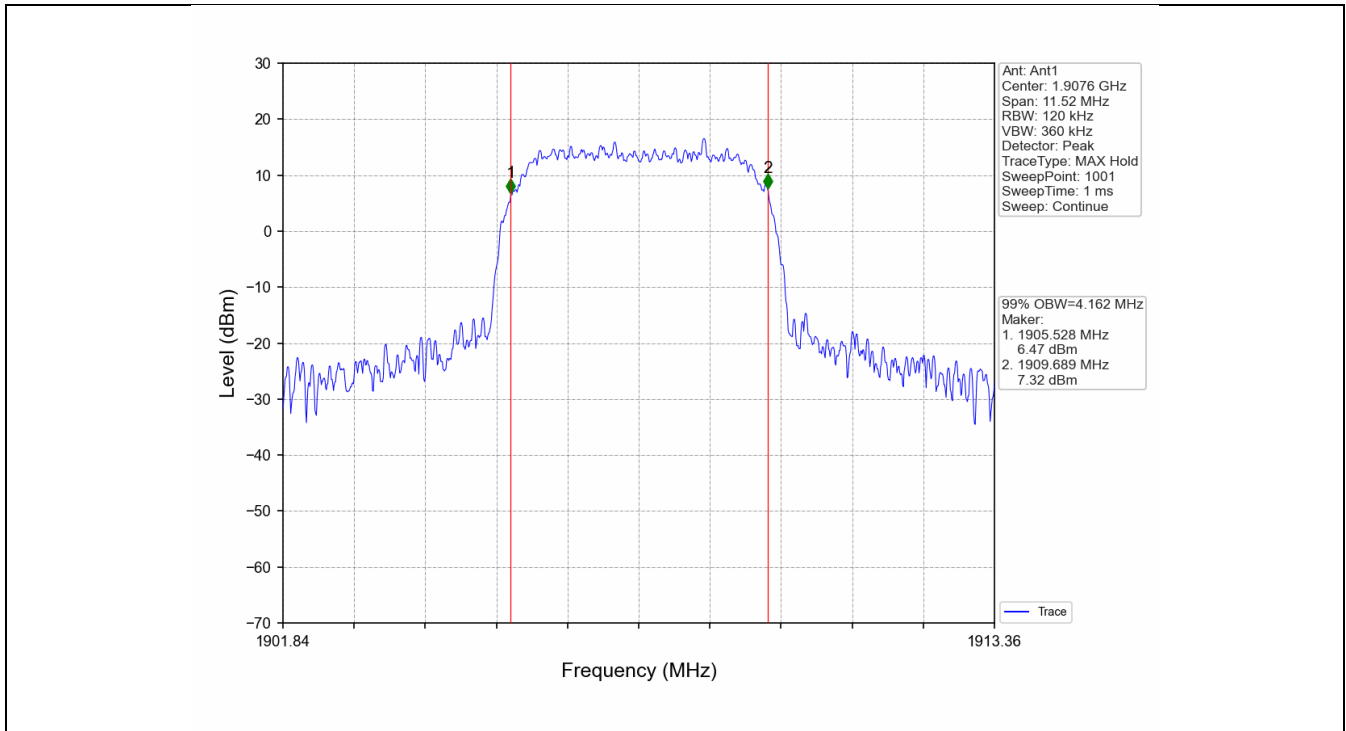
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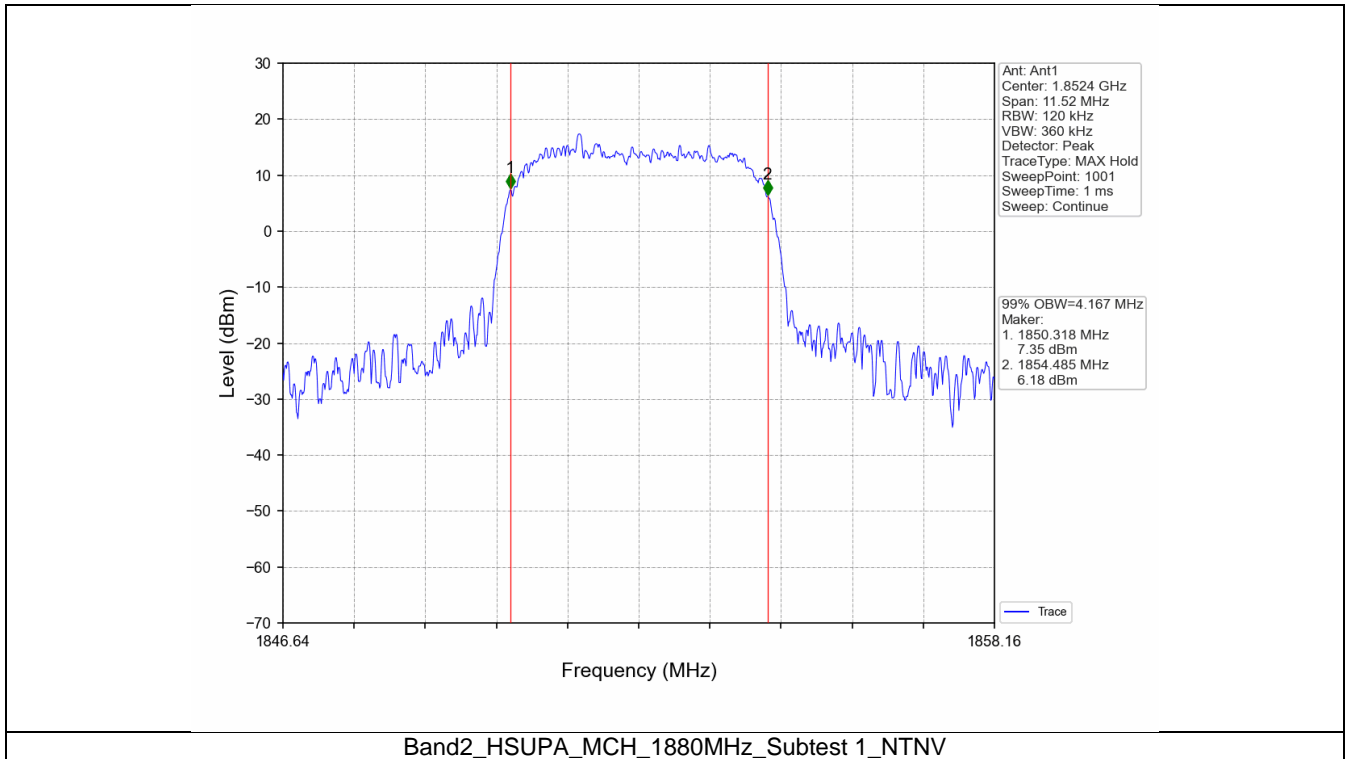


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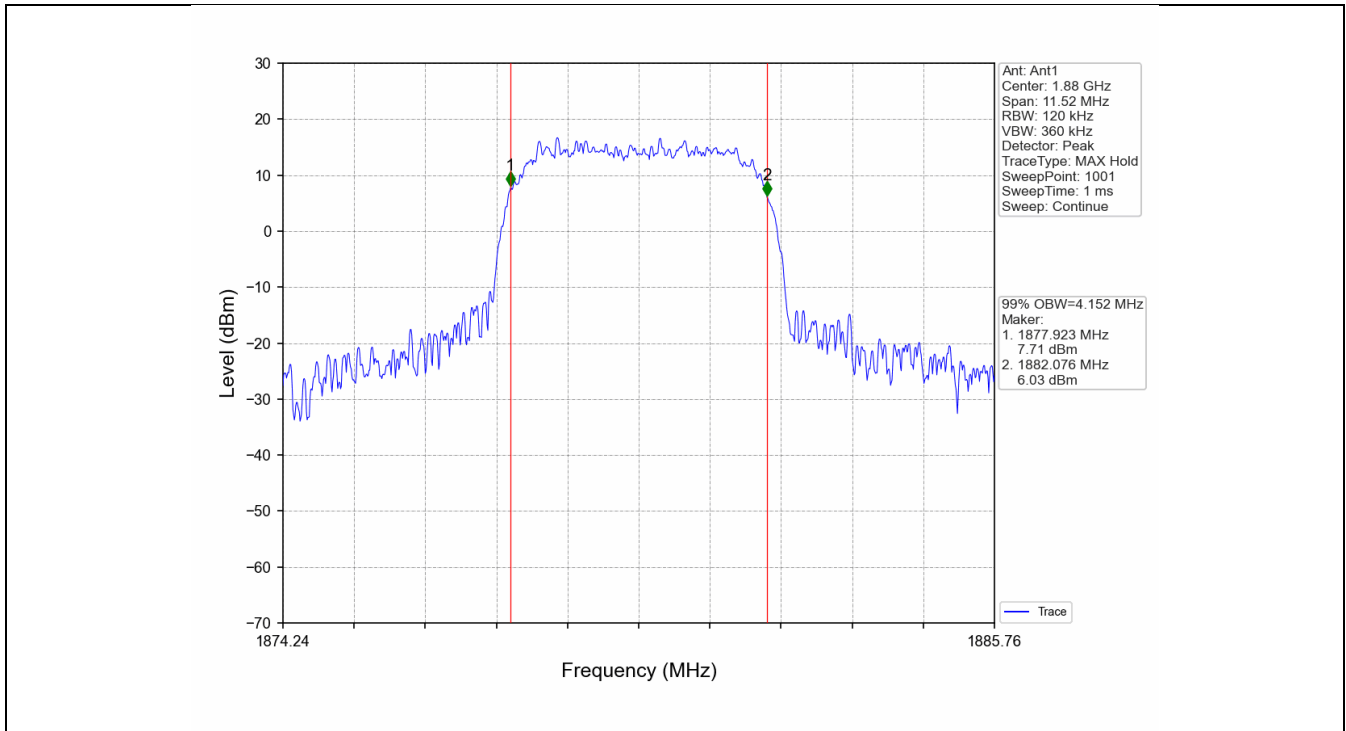


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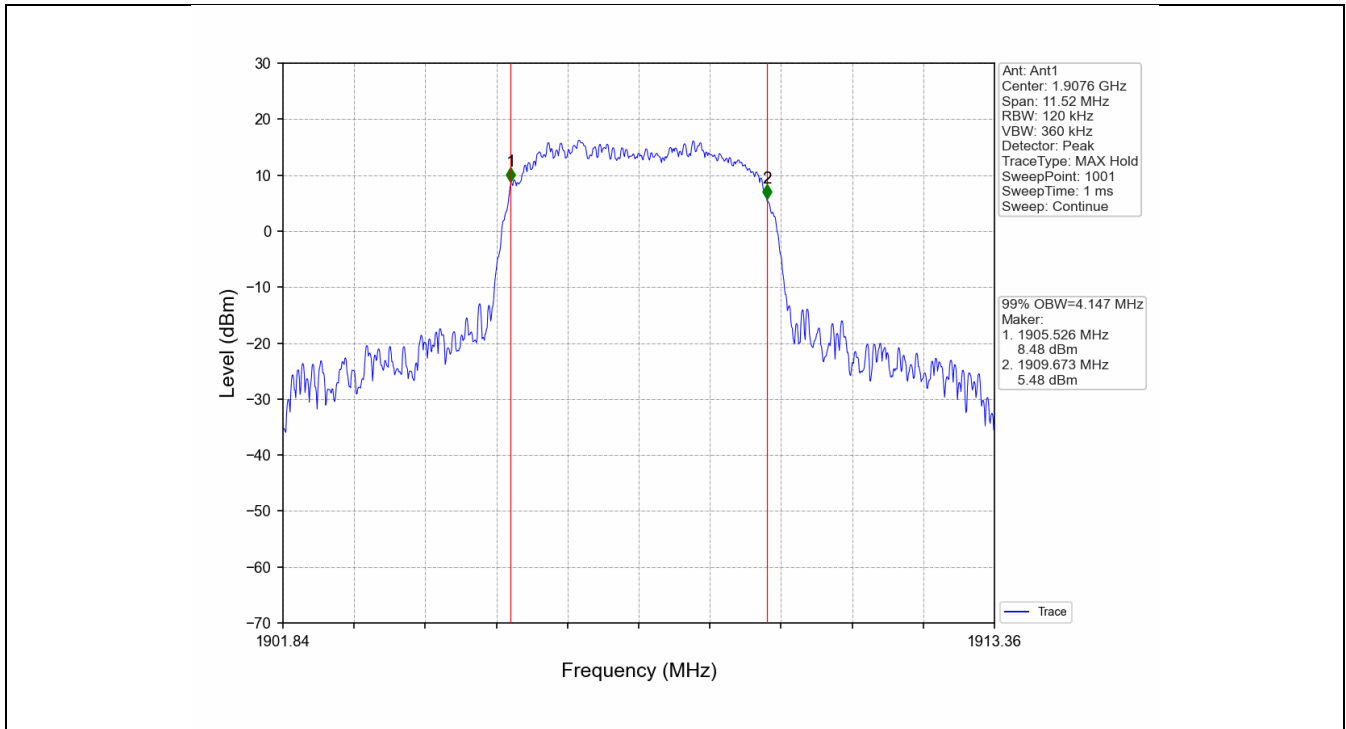
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## 4.2 Band2\_XDB

### 4.2.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.707	Pass
			1880	4.718	Pass
			1907.6	4.726	Pass
	HSDPA	Subtest 1	1852.4	4.693	Pass
			1880	4.702	Pass
			1907.6	4.708	Pass
HSUPA	Subtest 1	1852.4	4.682	Pass	
		1880	4.693	Pass	
		1907.6	4.692	Pass	

### 4.2.2 Test Graph



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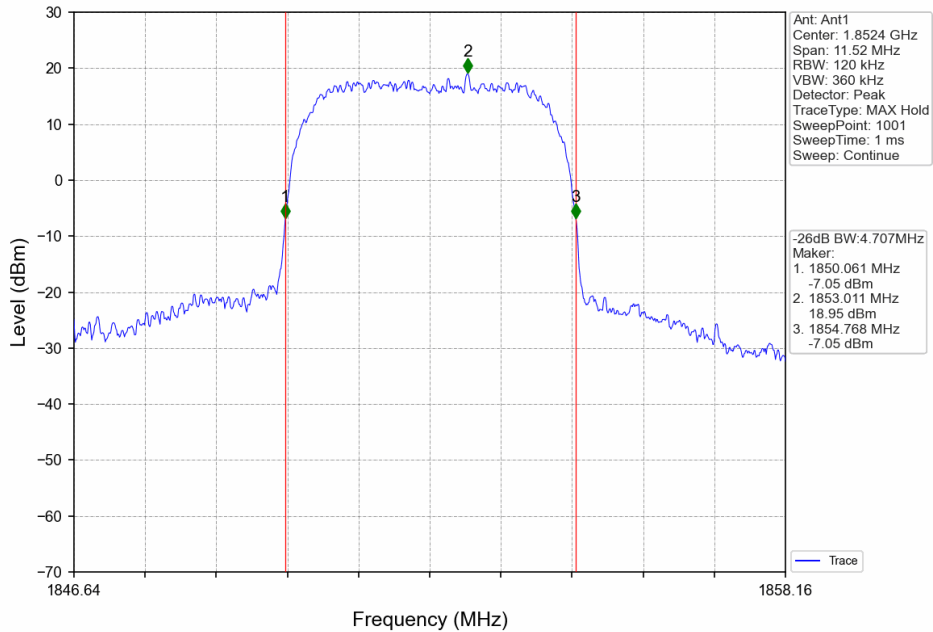
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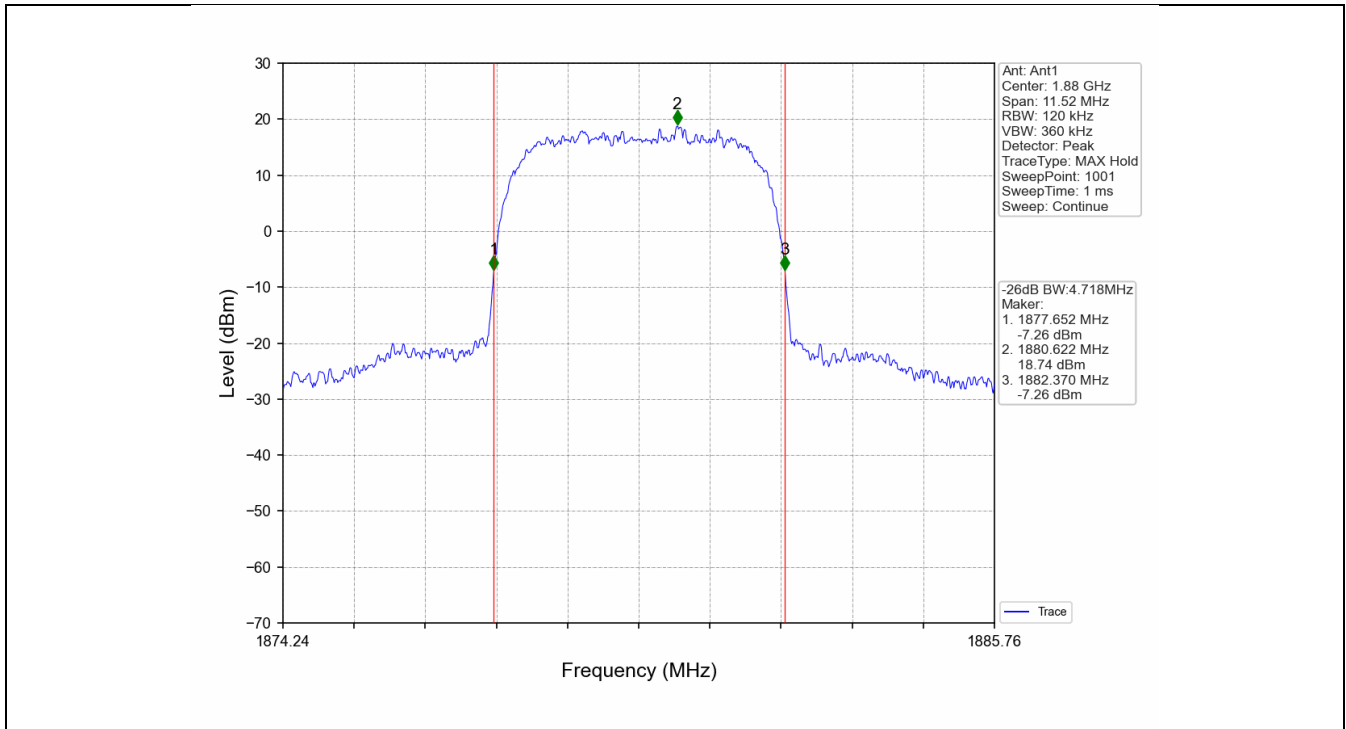
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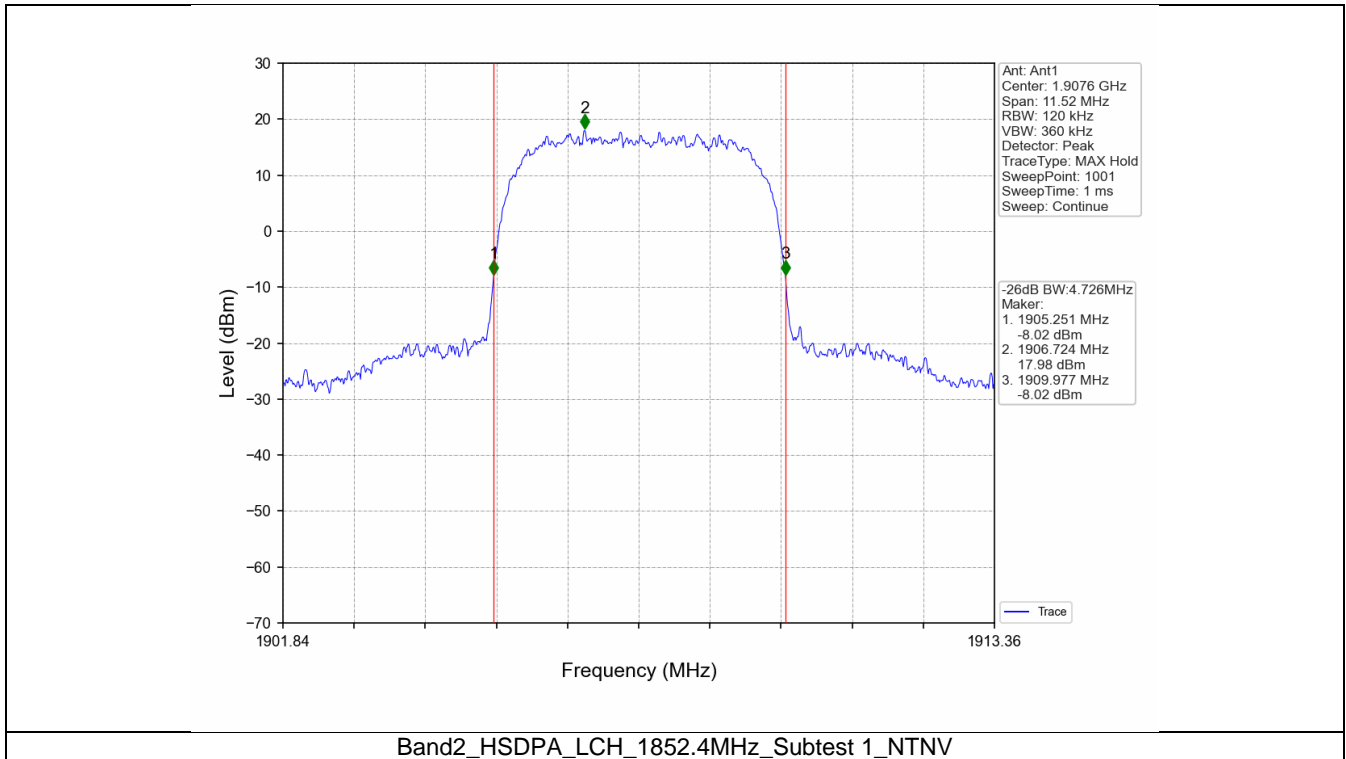
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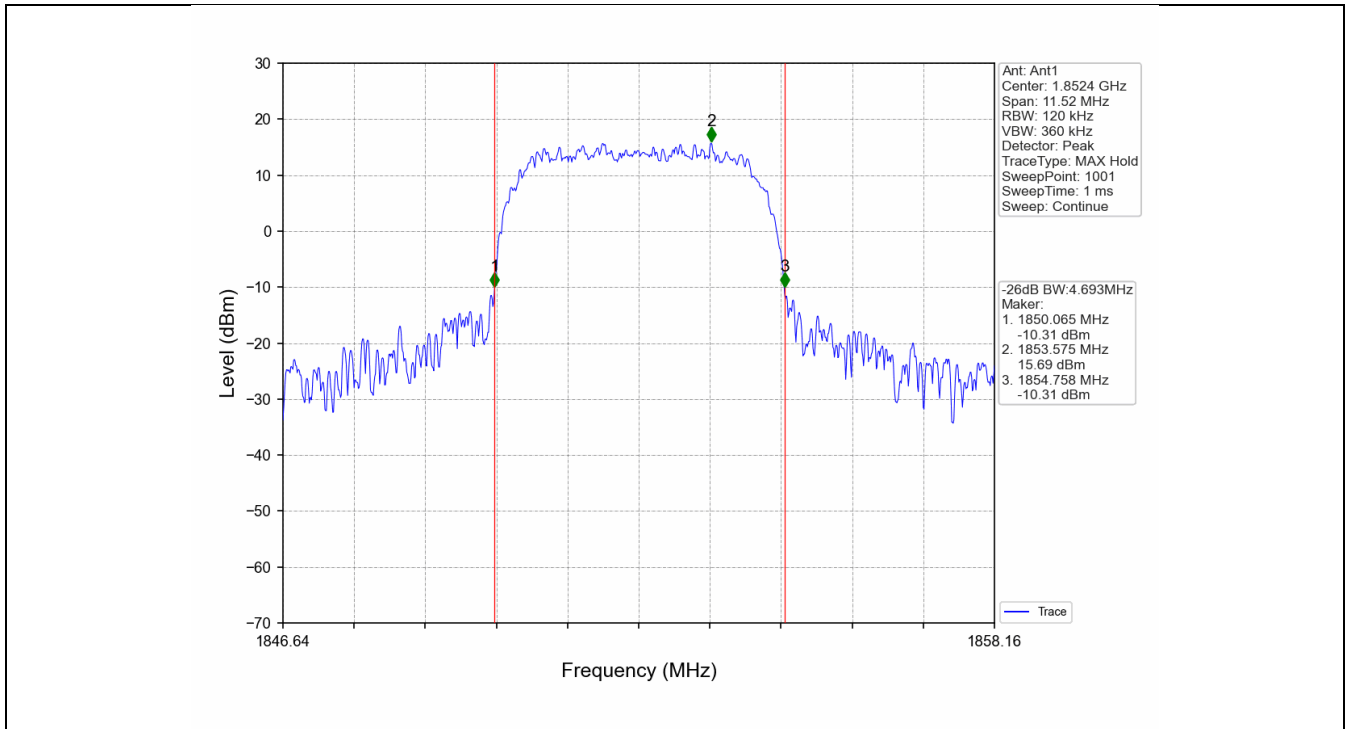


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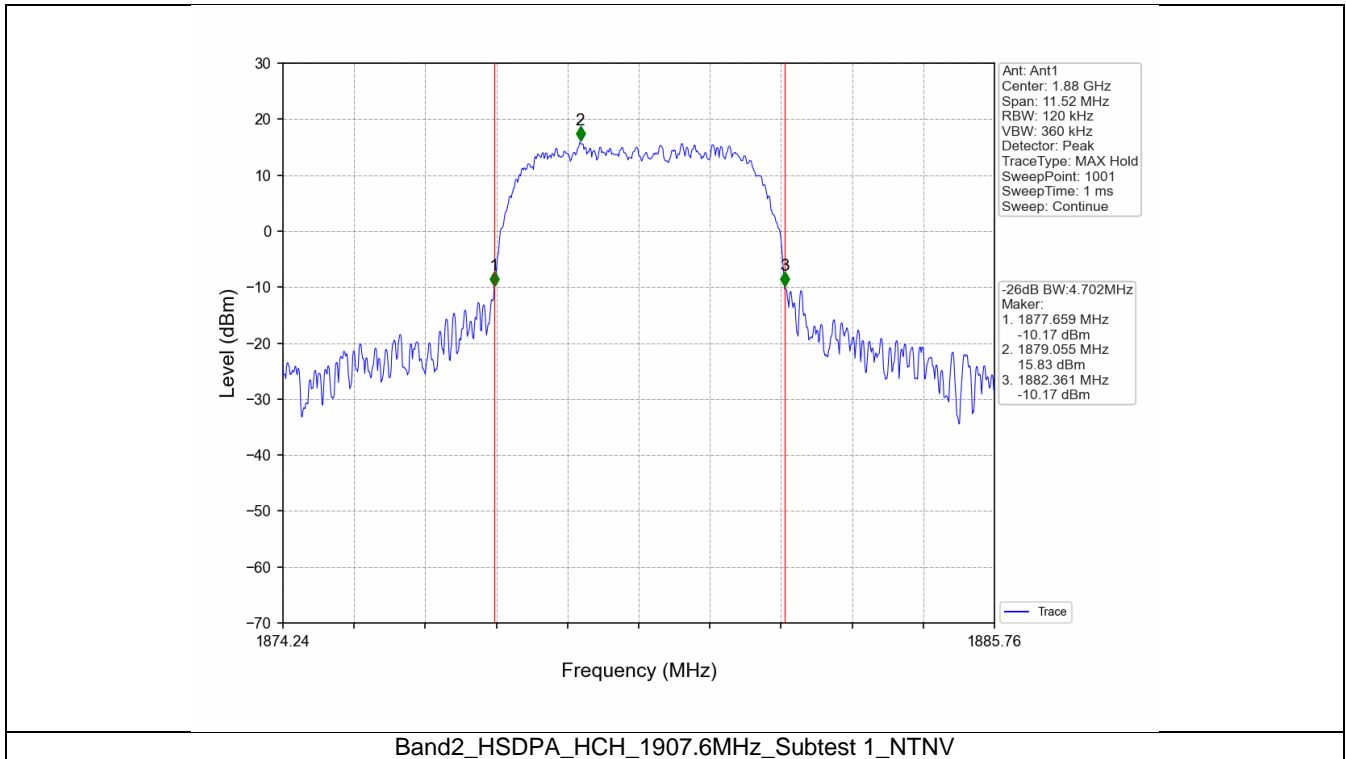
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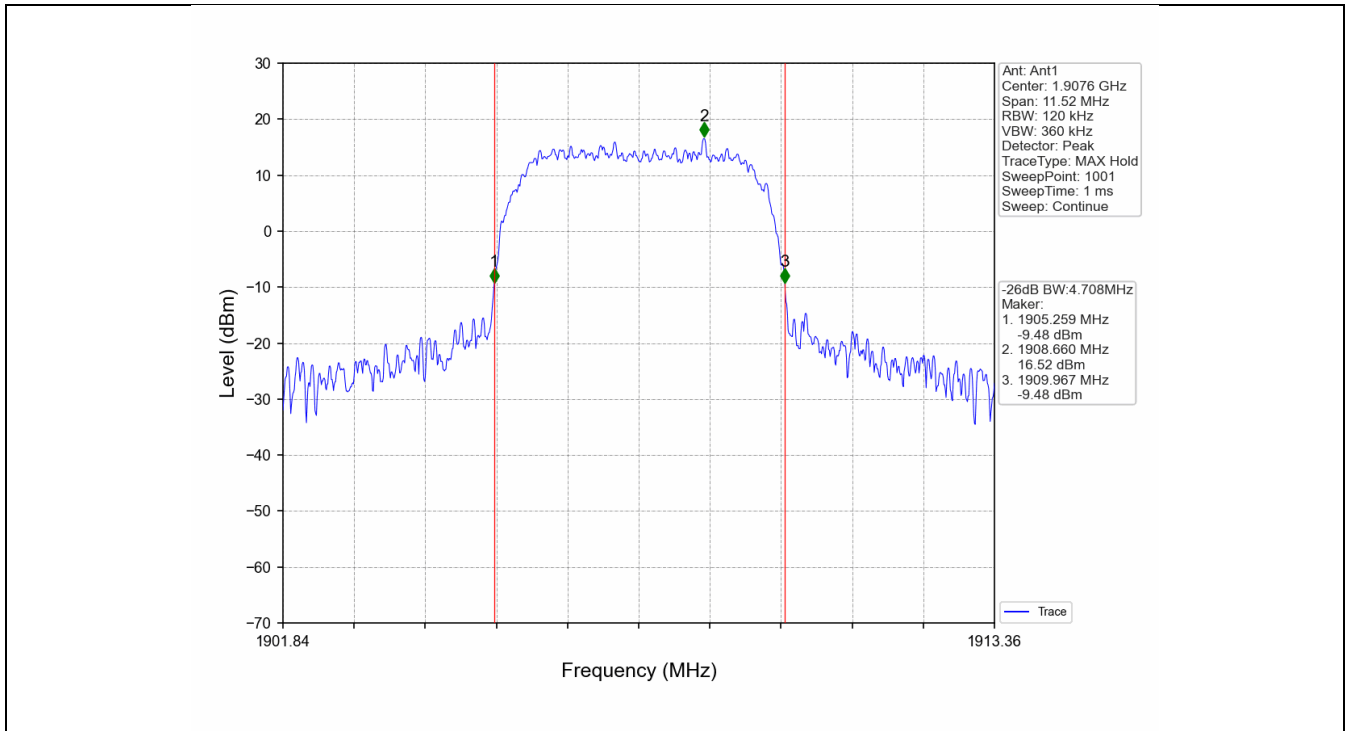


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Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



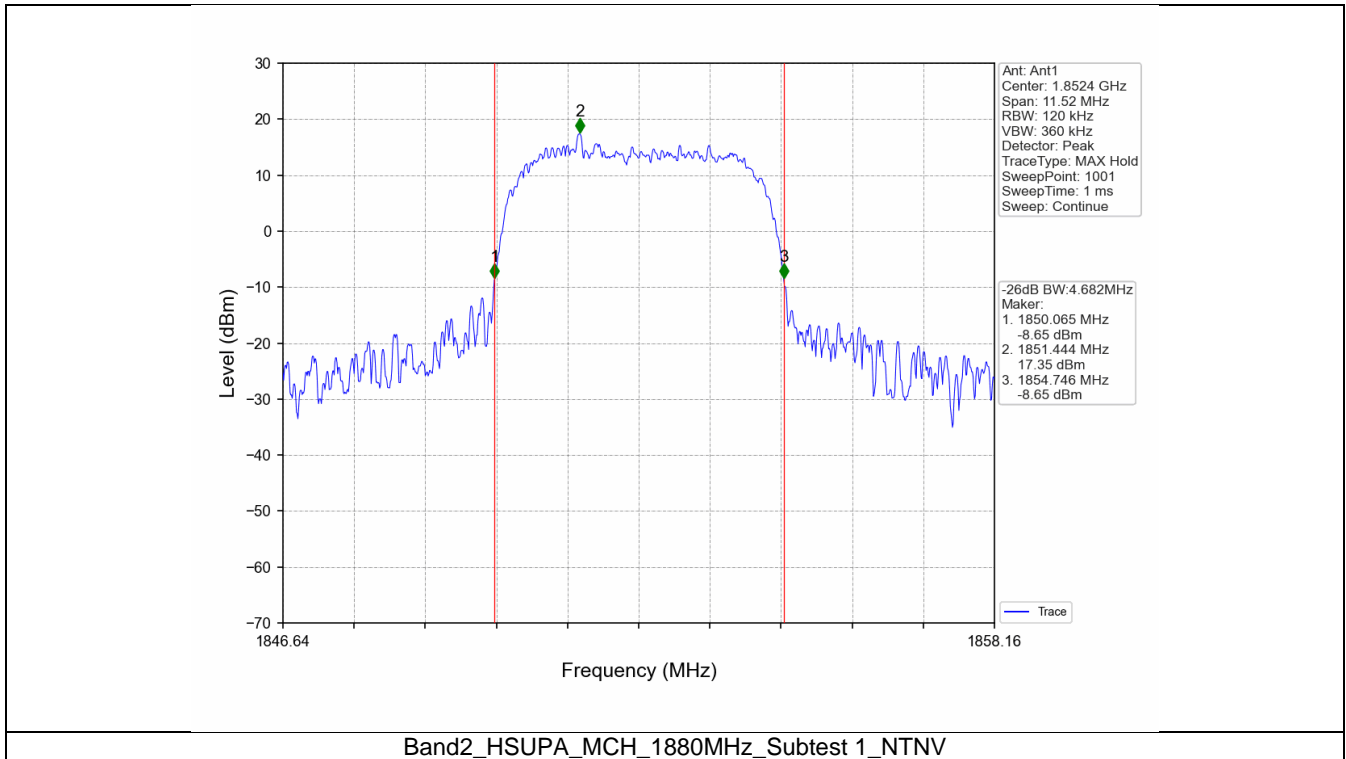
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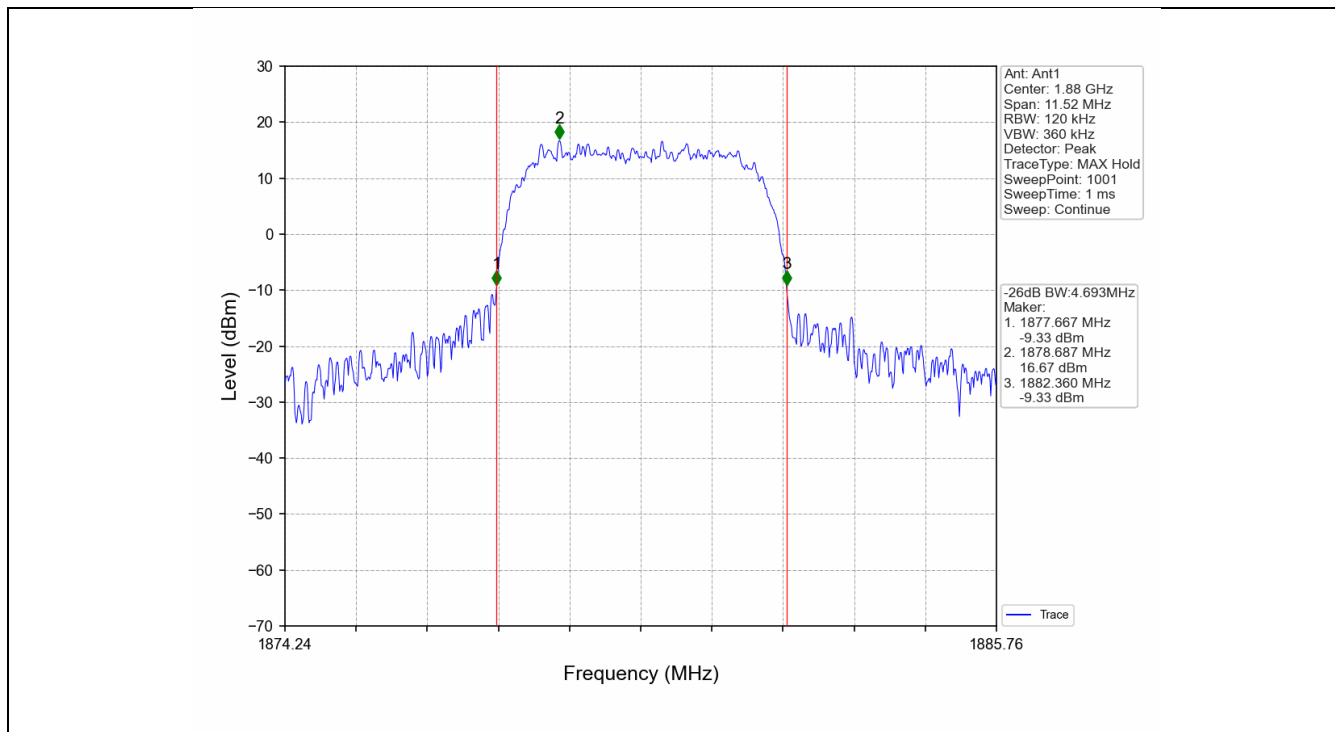


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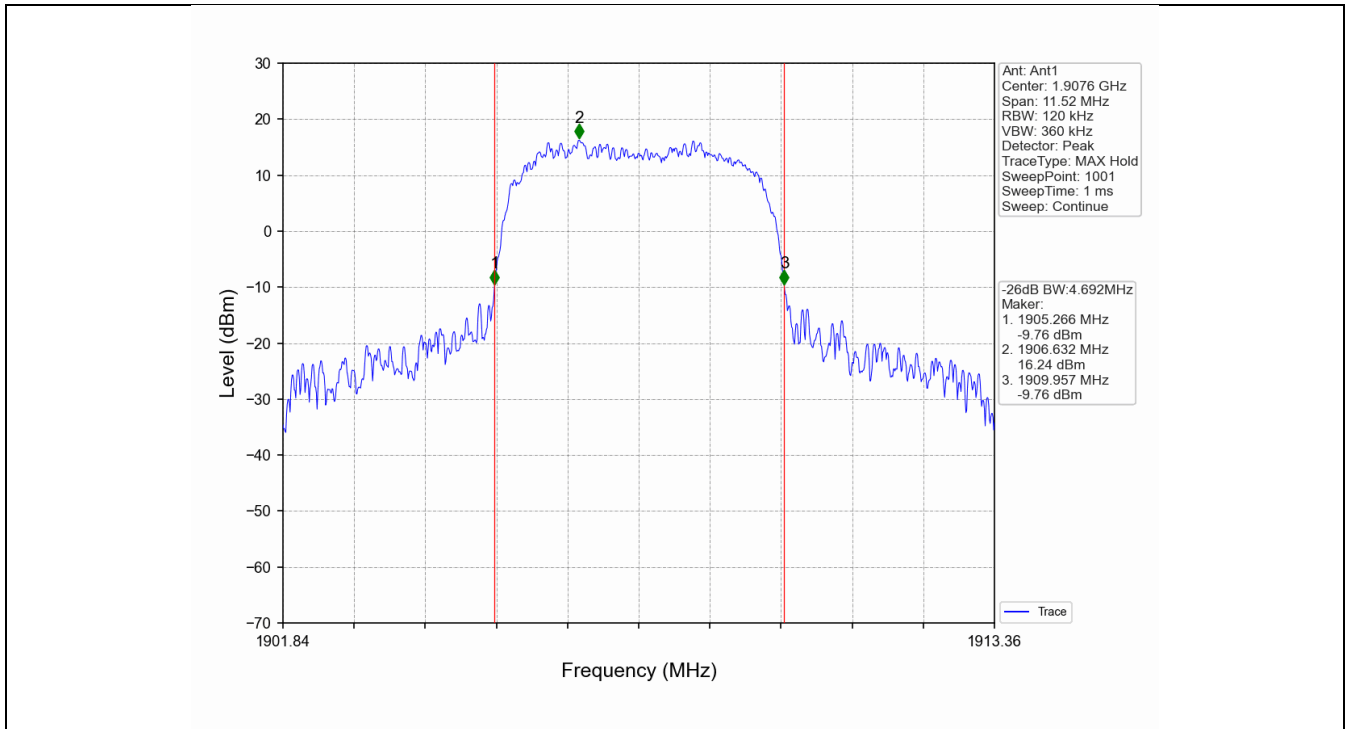
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## 5. Peak-Average Ratio

### 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	3.02	<=13	Pass
			1880	2.88	<=13	Pass
			1907.6	2.77	<=13	Pass
	HSDPA	Subtest 1	1852.4	6.20	<=13	Pass
			1880	6.22	<=13	Pass
			1907.6	6.26	<=13	Pass
	HSUPA	Subtest 1	1852.4	6.22	<=13	Pass
			1880	6.22	<=13	Pass
			1907.6	6.20	<=13	Pass



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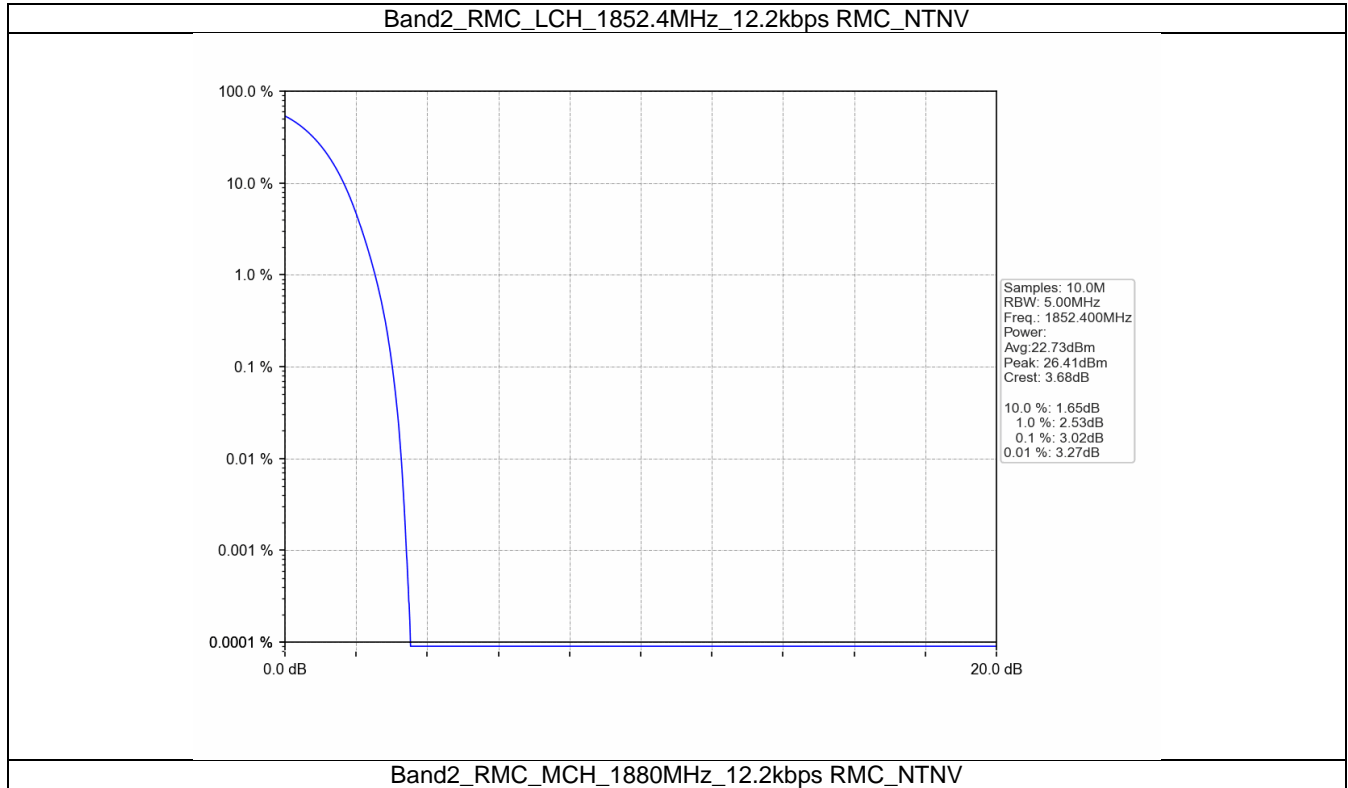
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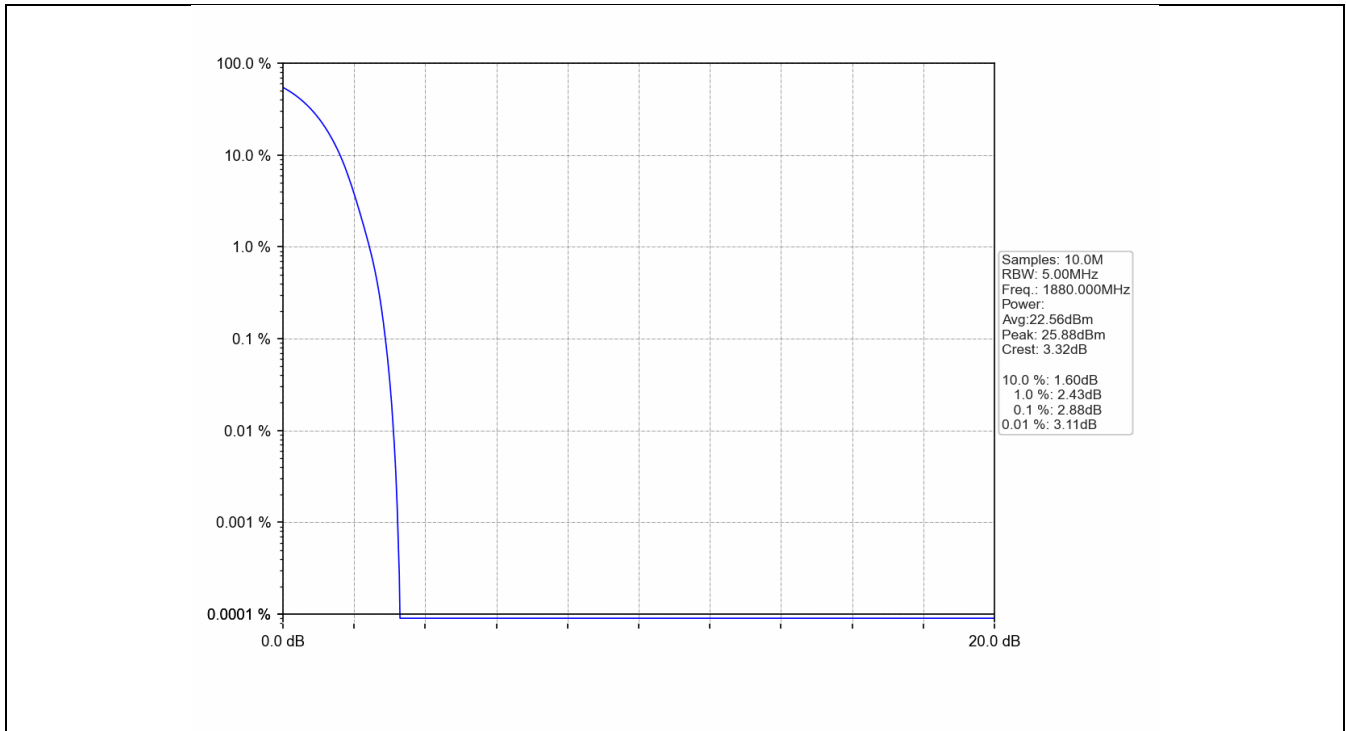
### 5.1.2 Test Graph



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

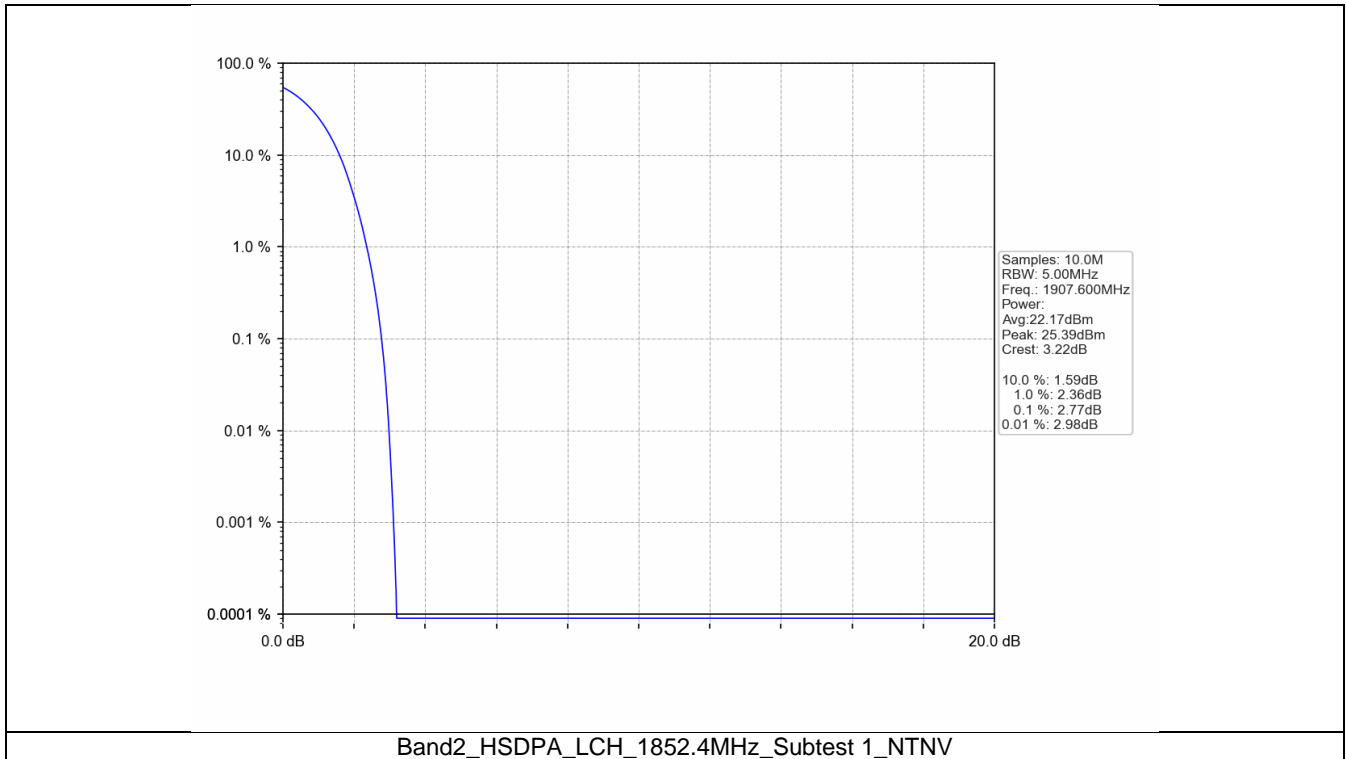


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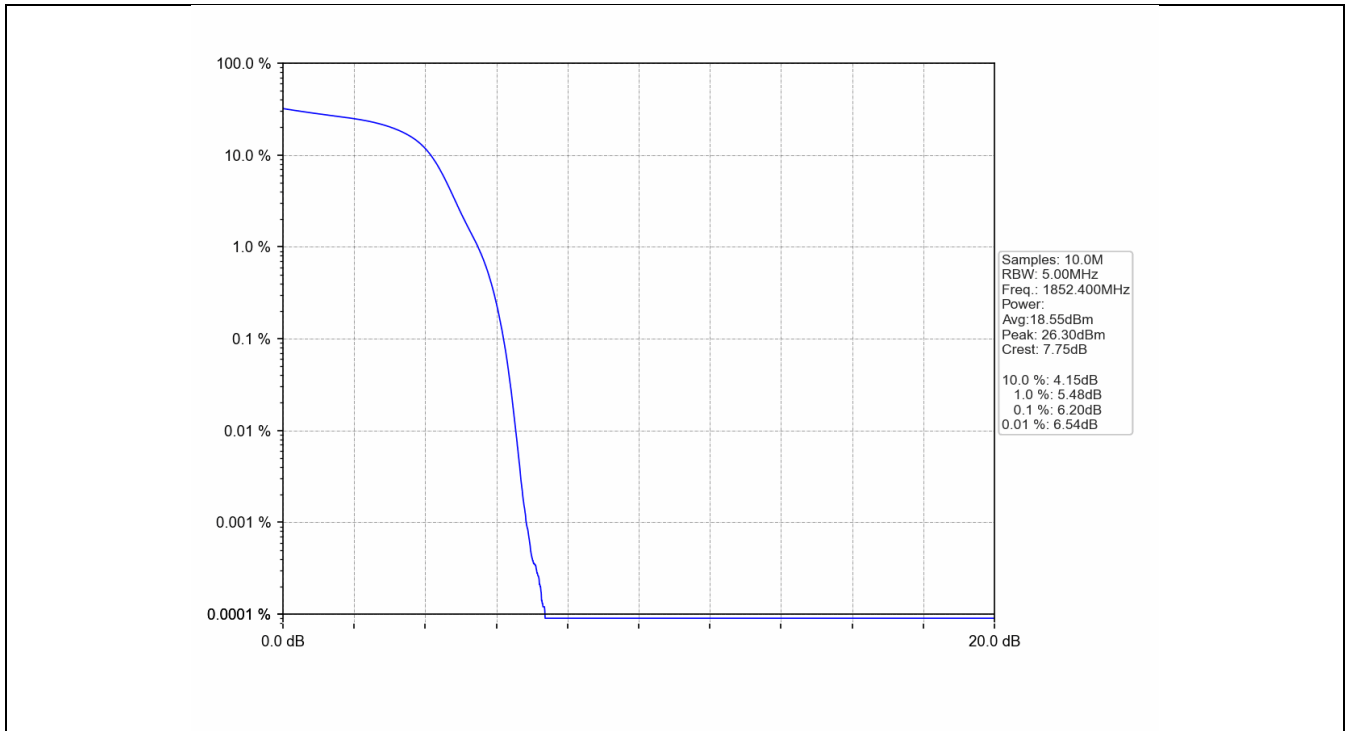
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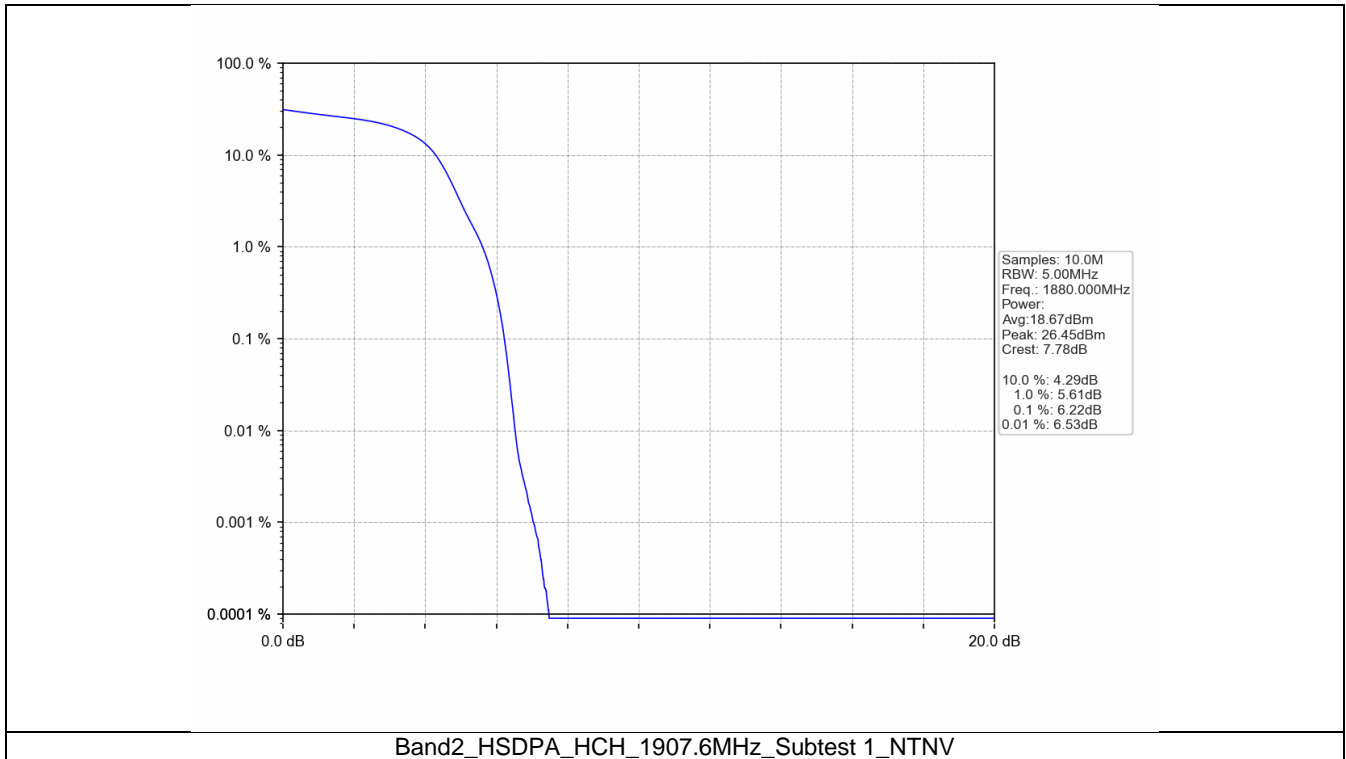


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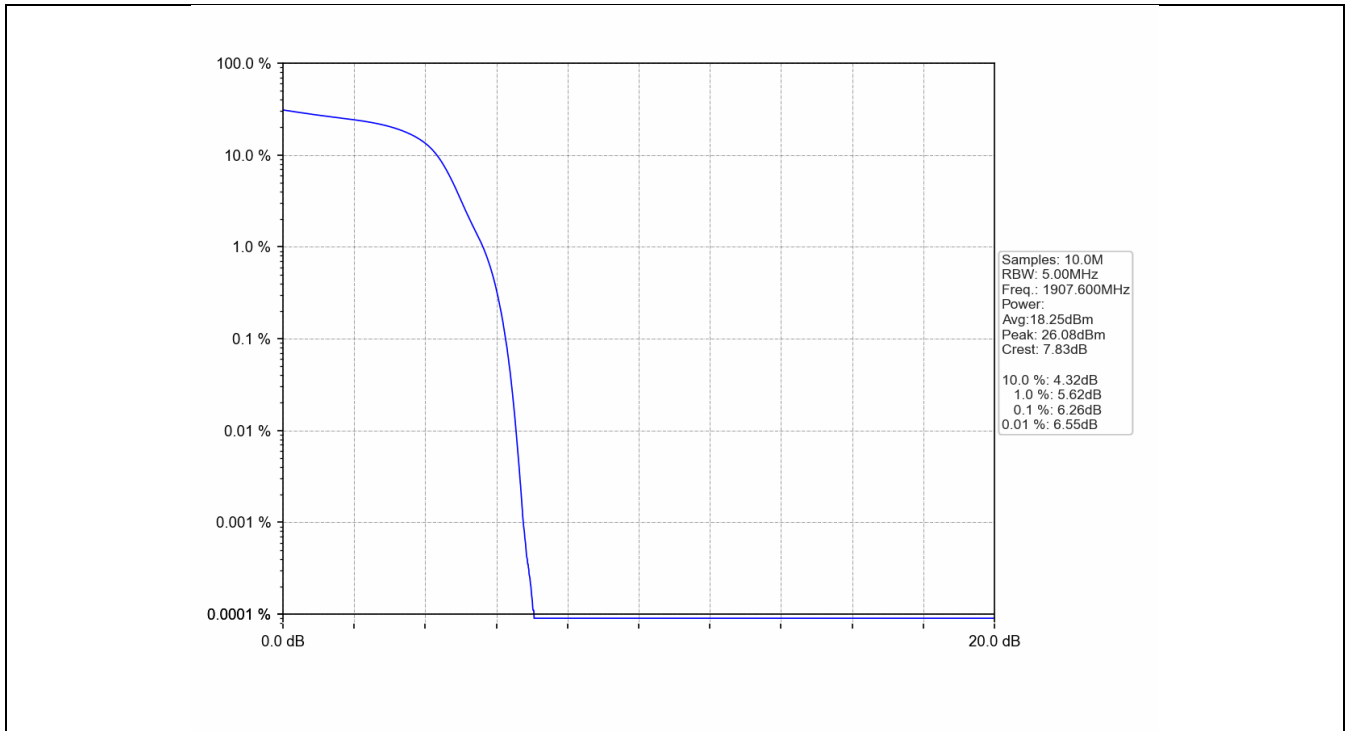
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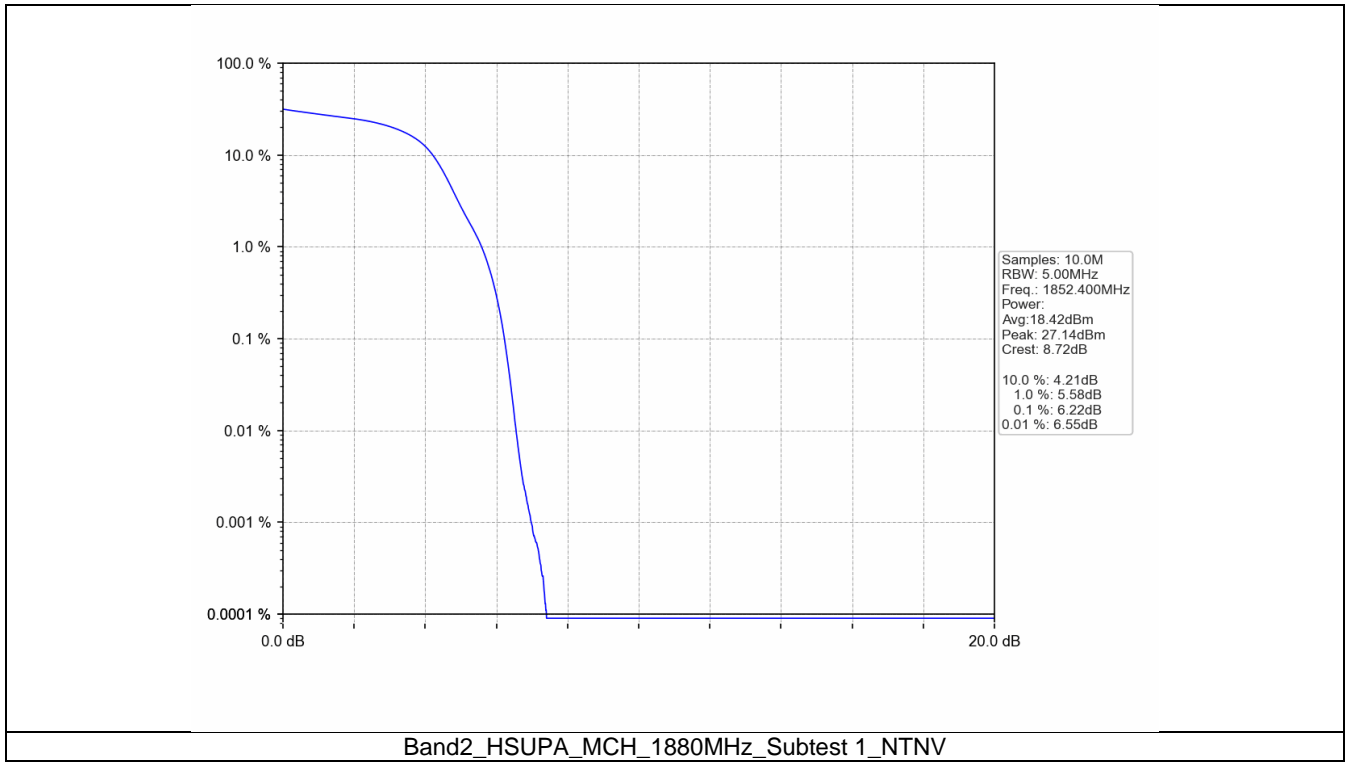
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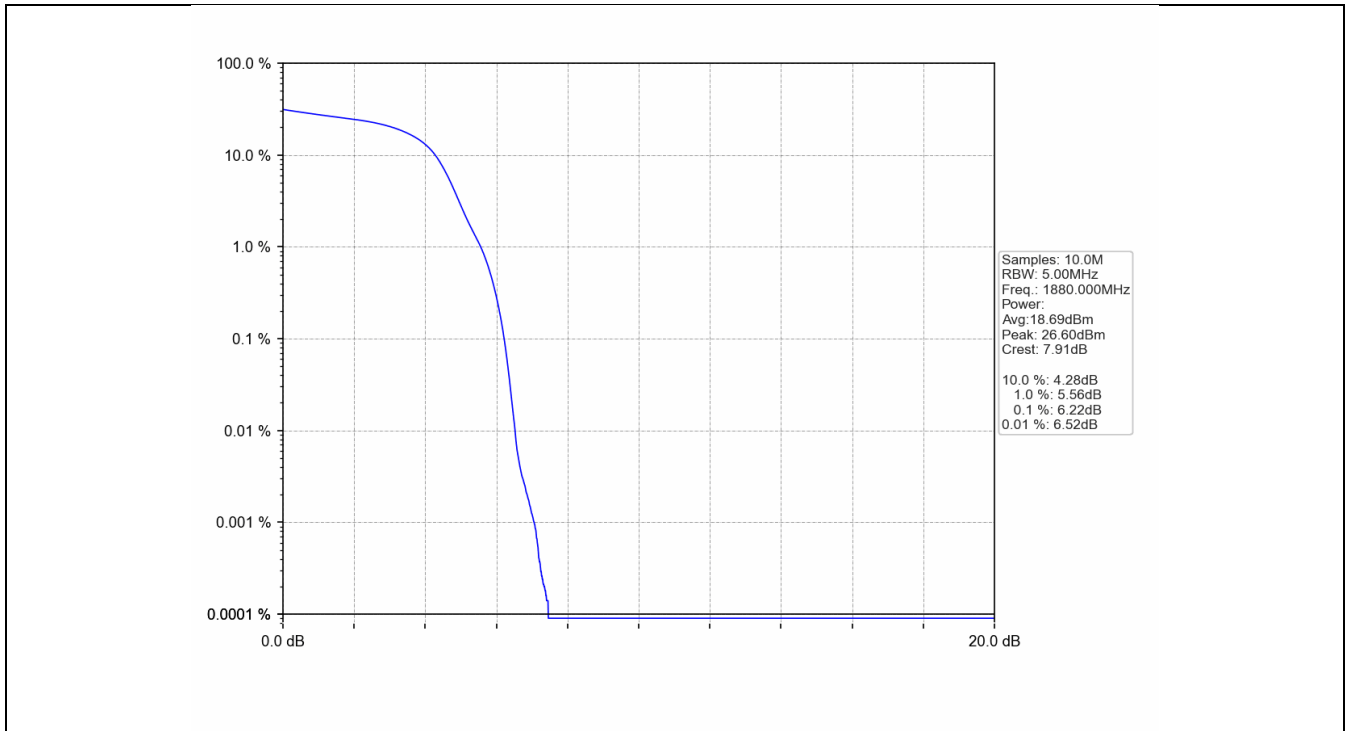


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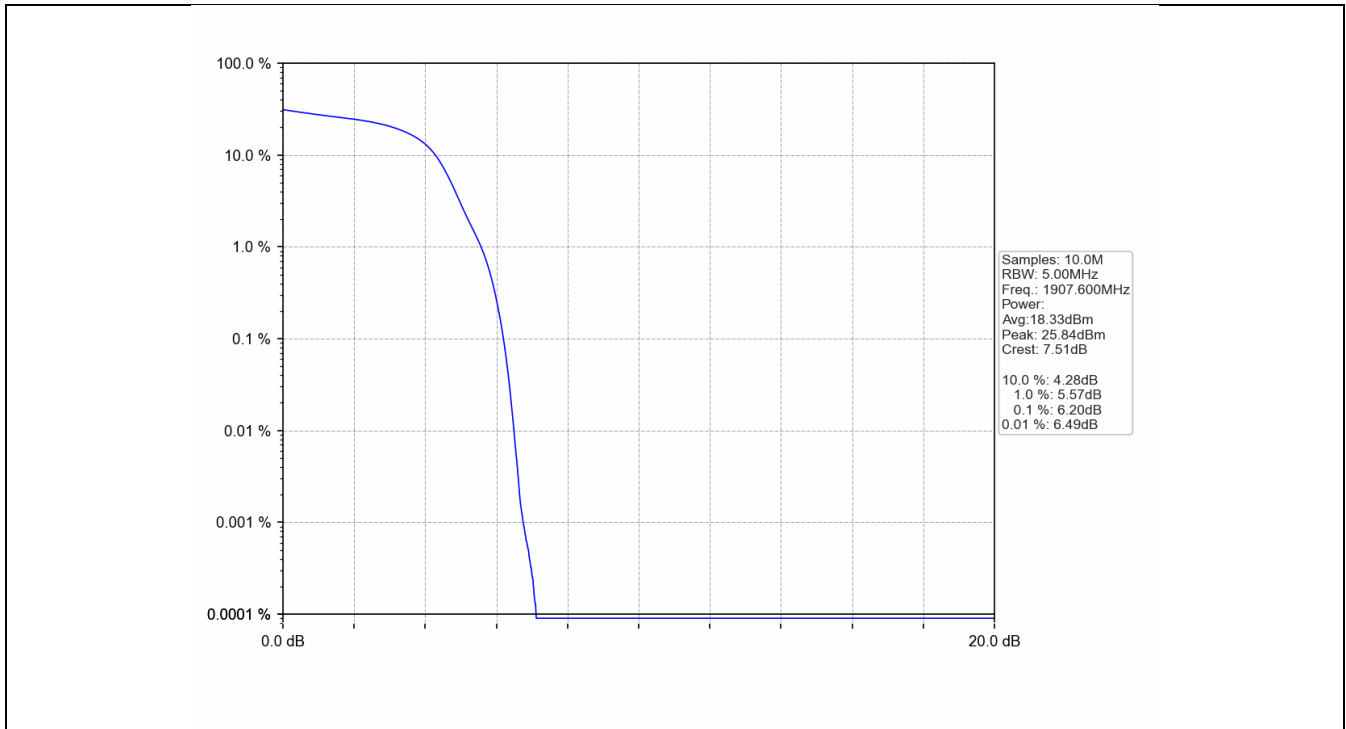
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## 6. Spurious Emission

### 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	



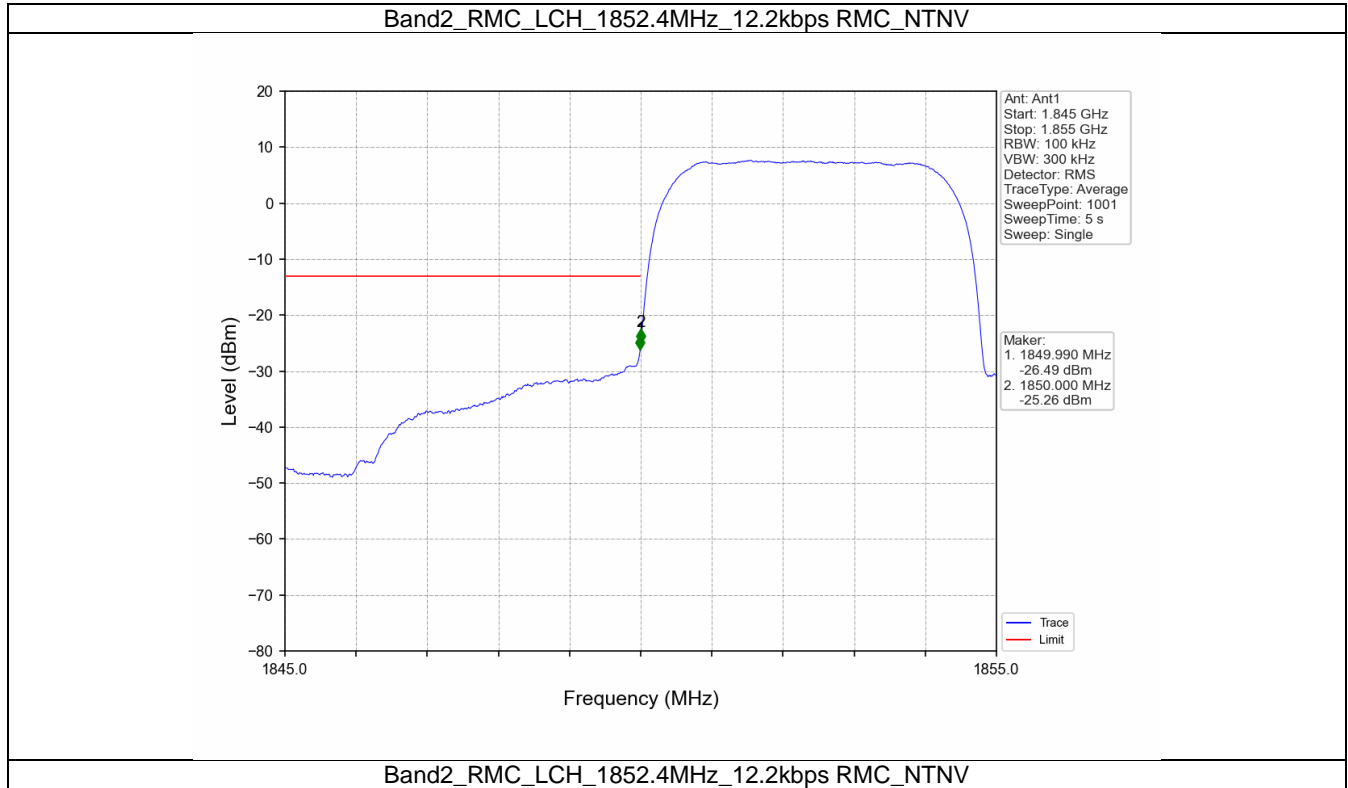
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## 6.1.2 Test Graph



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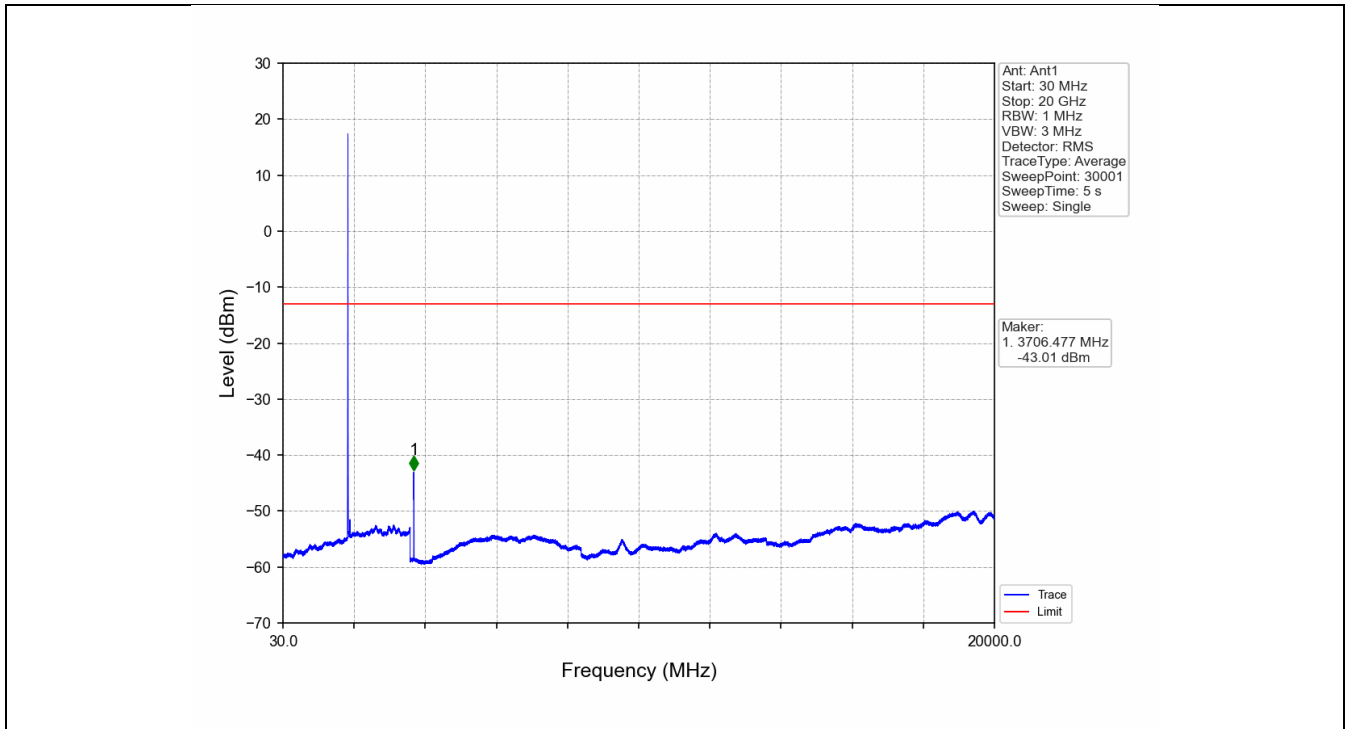
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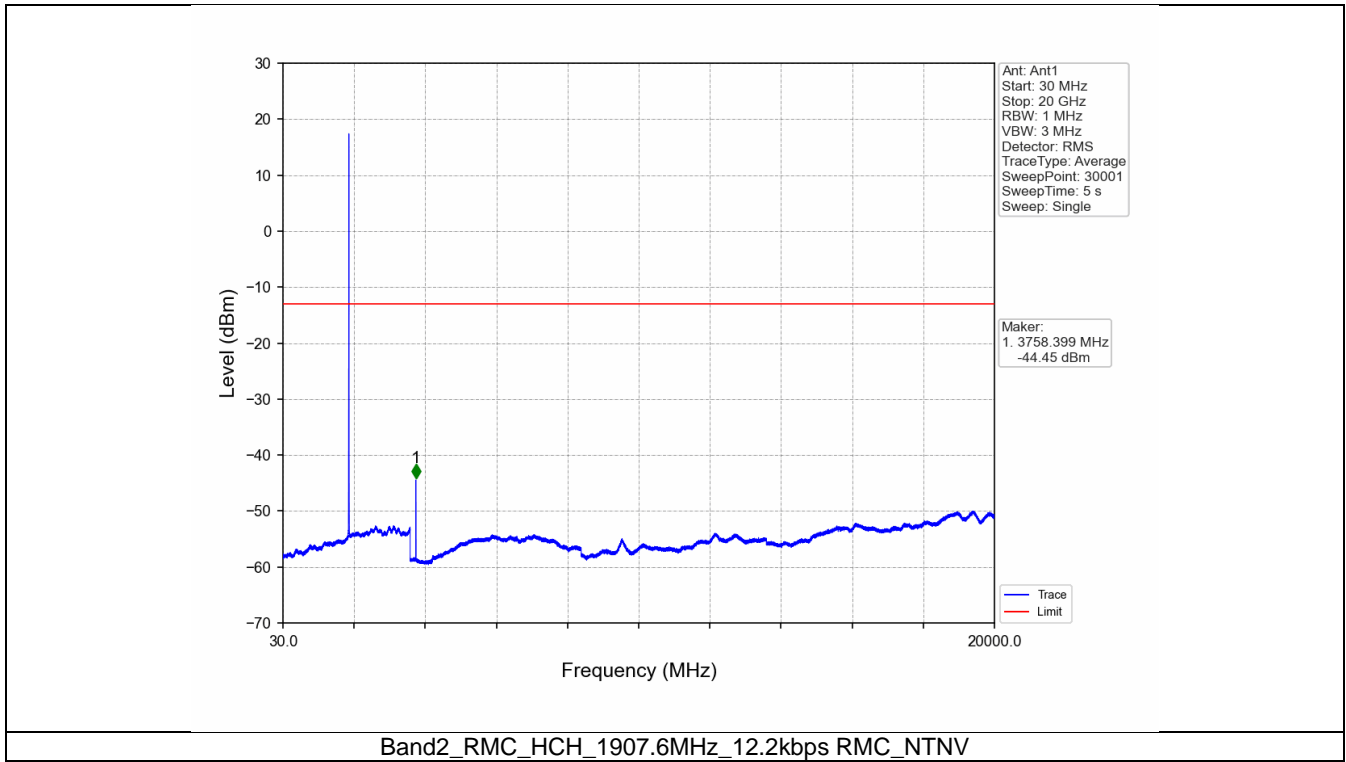
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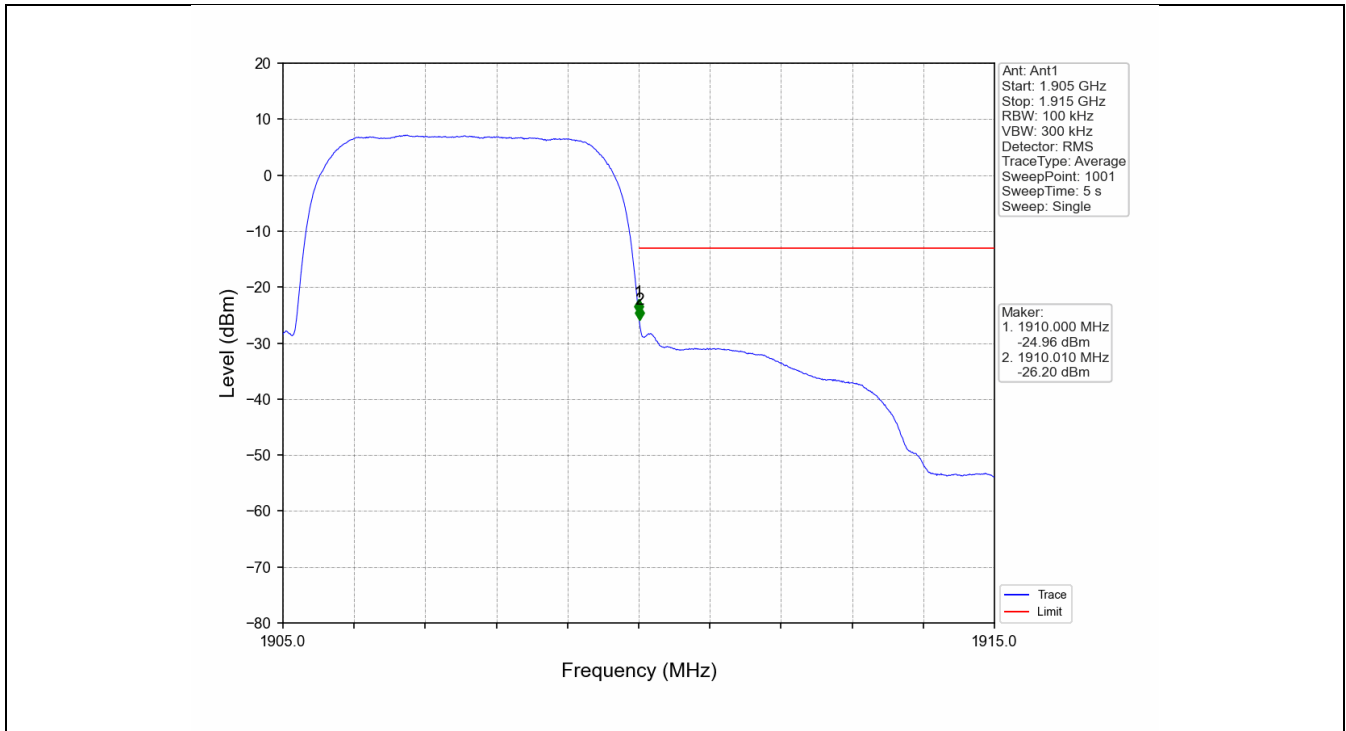


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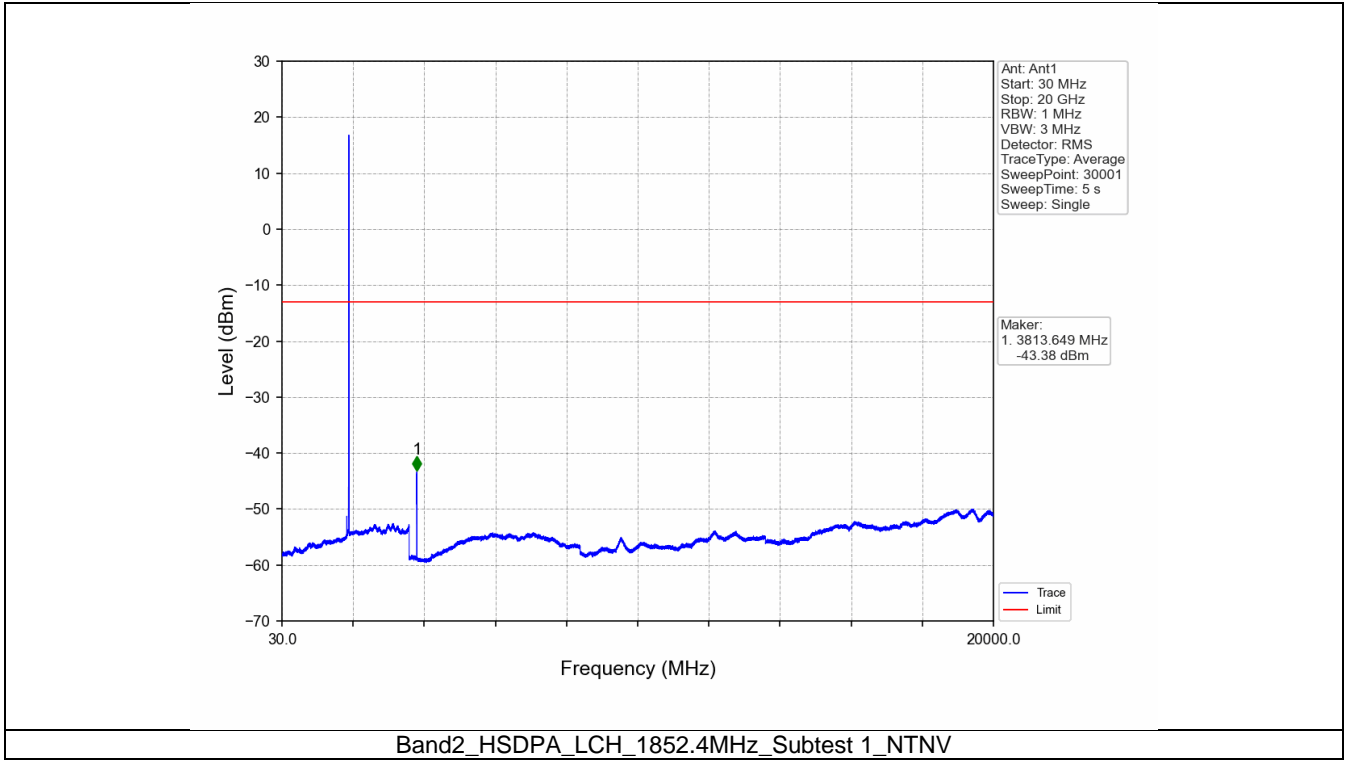
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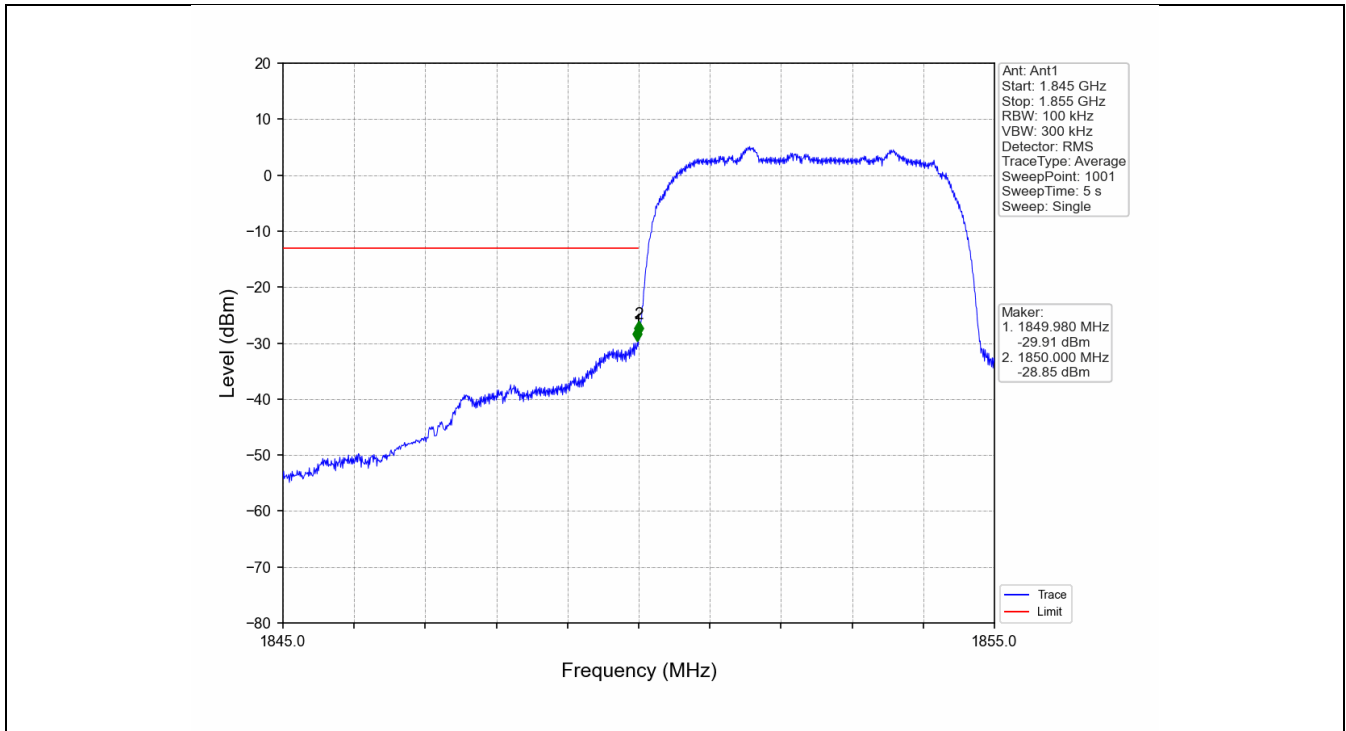


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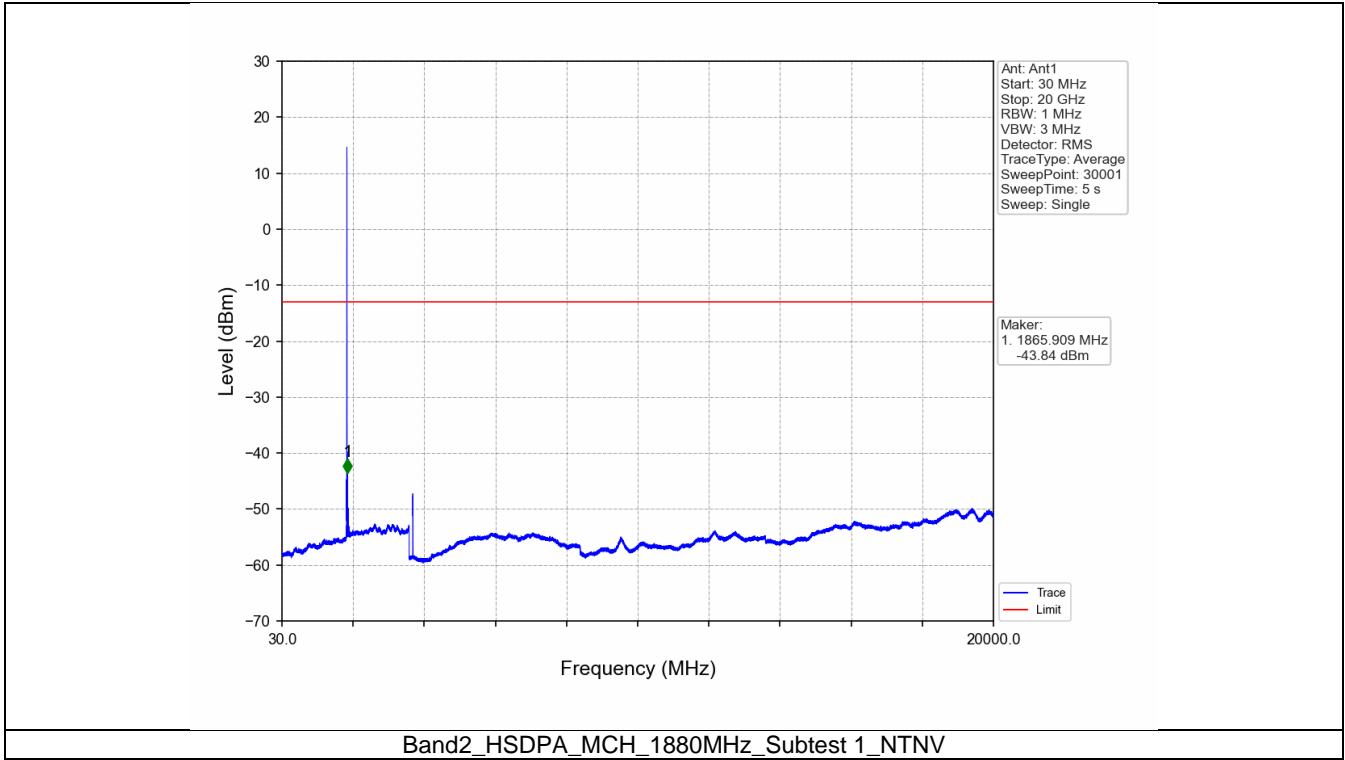
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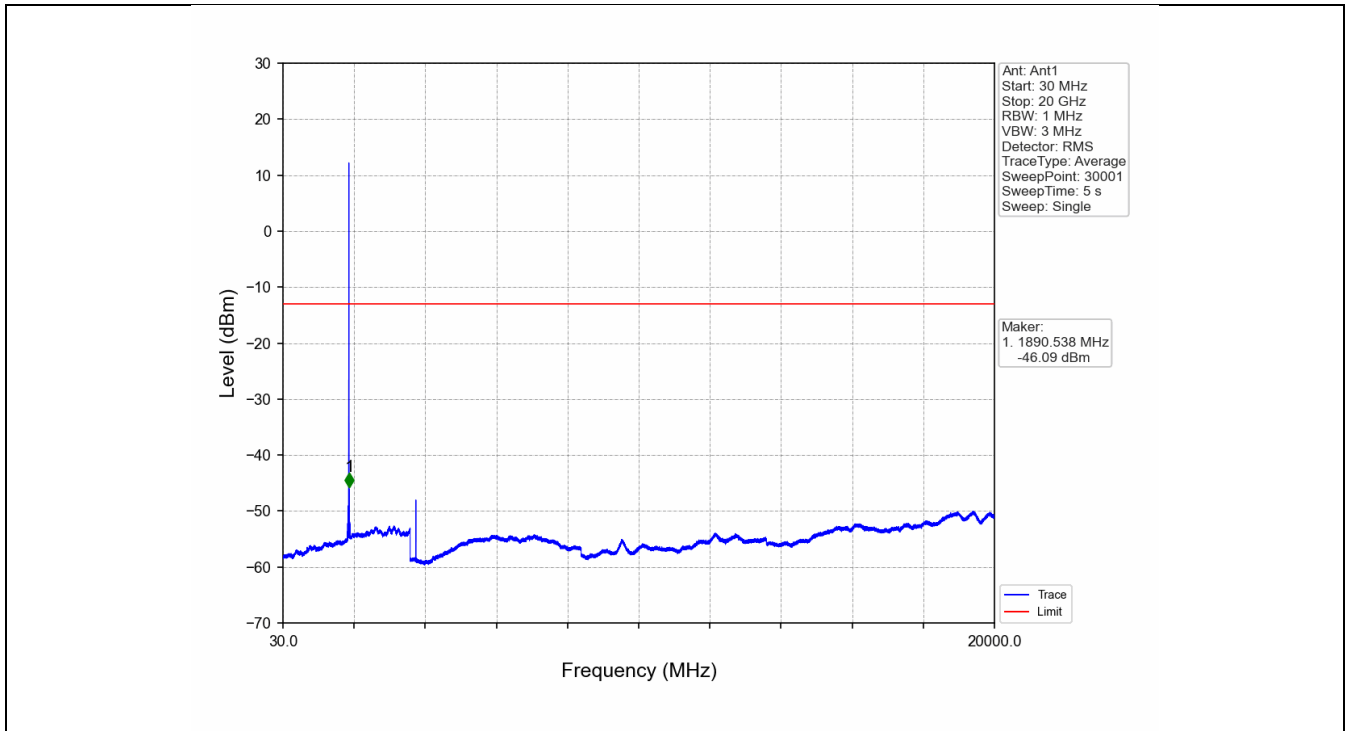


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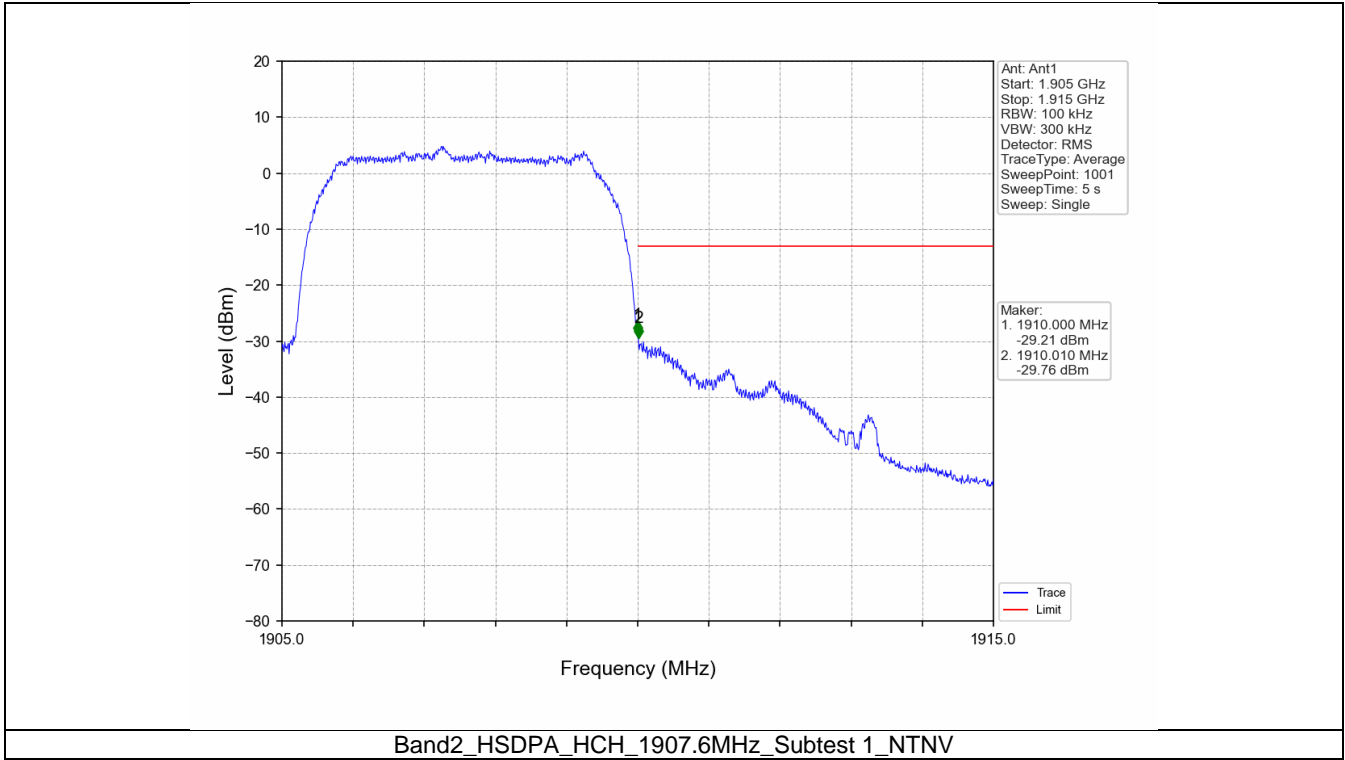
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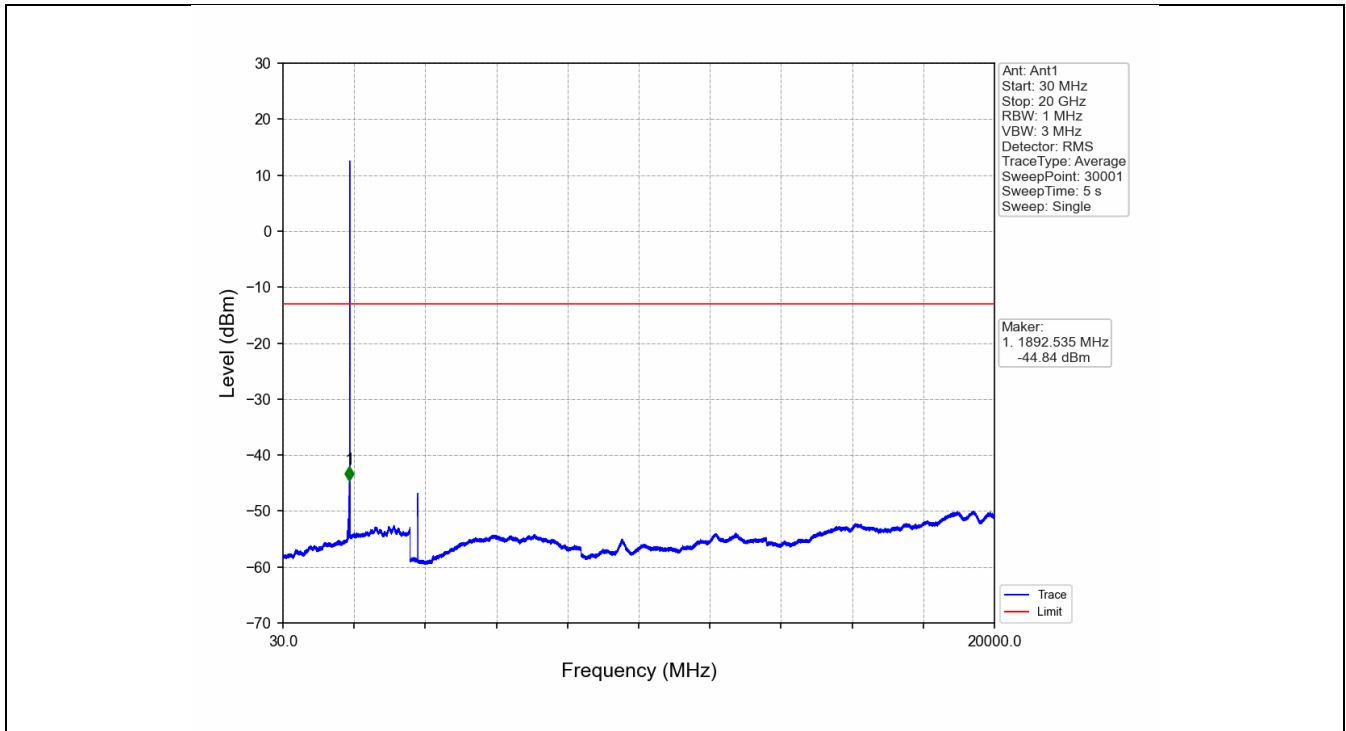


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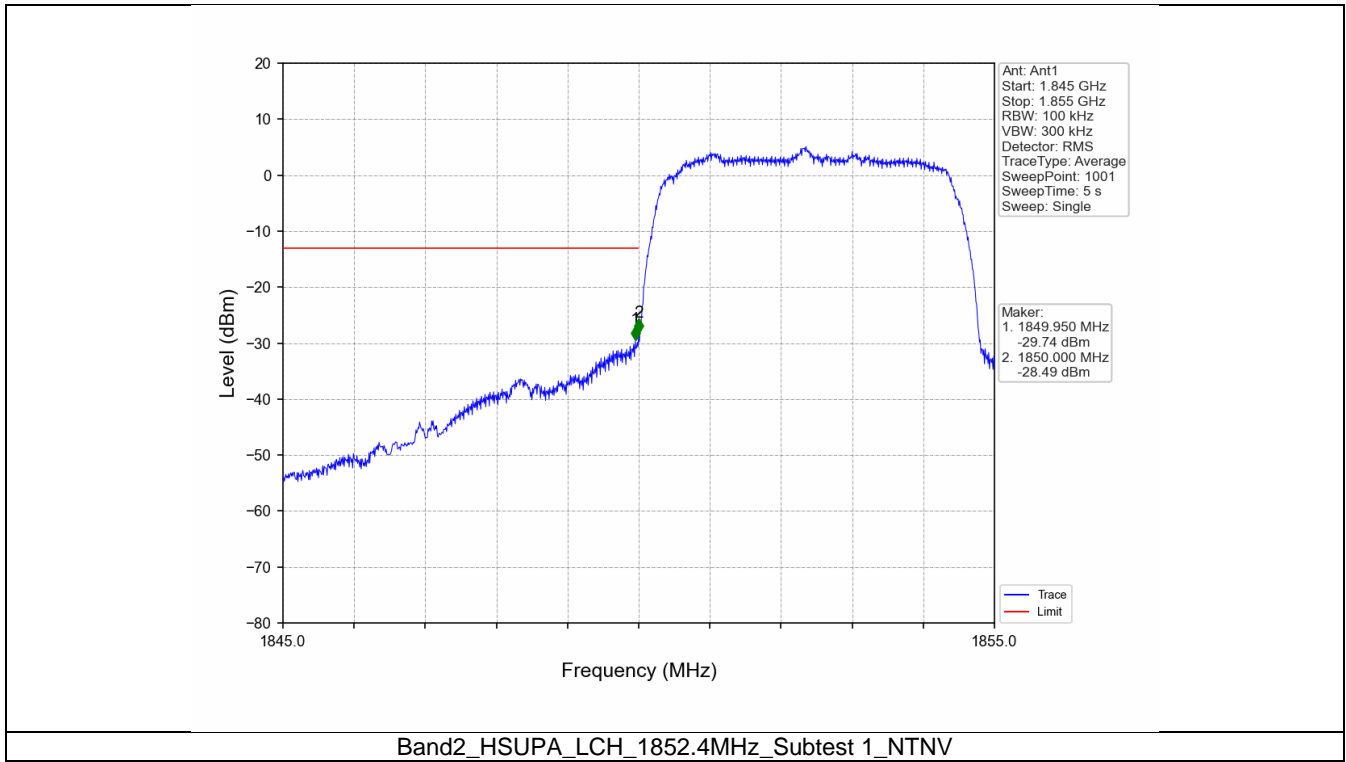
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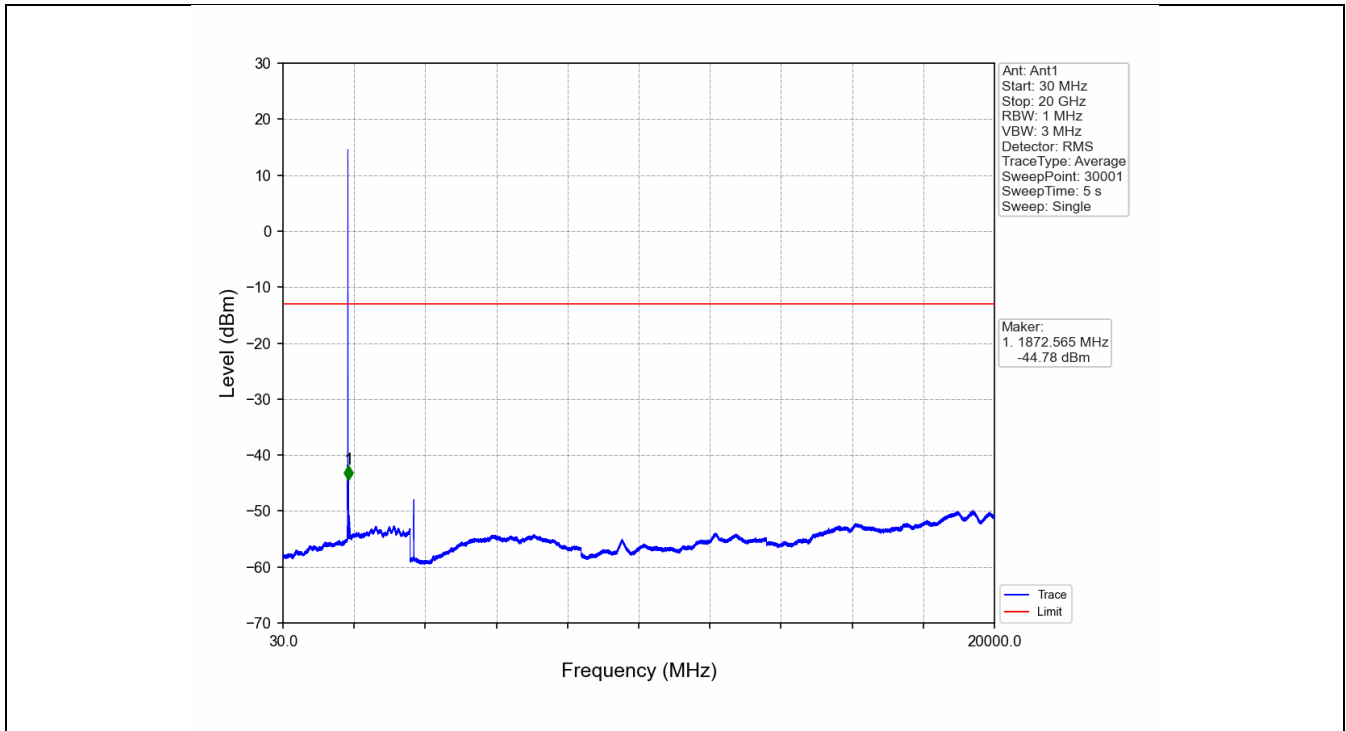
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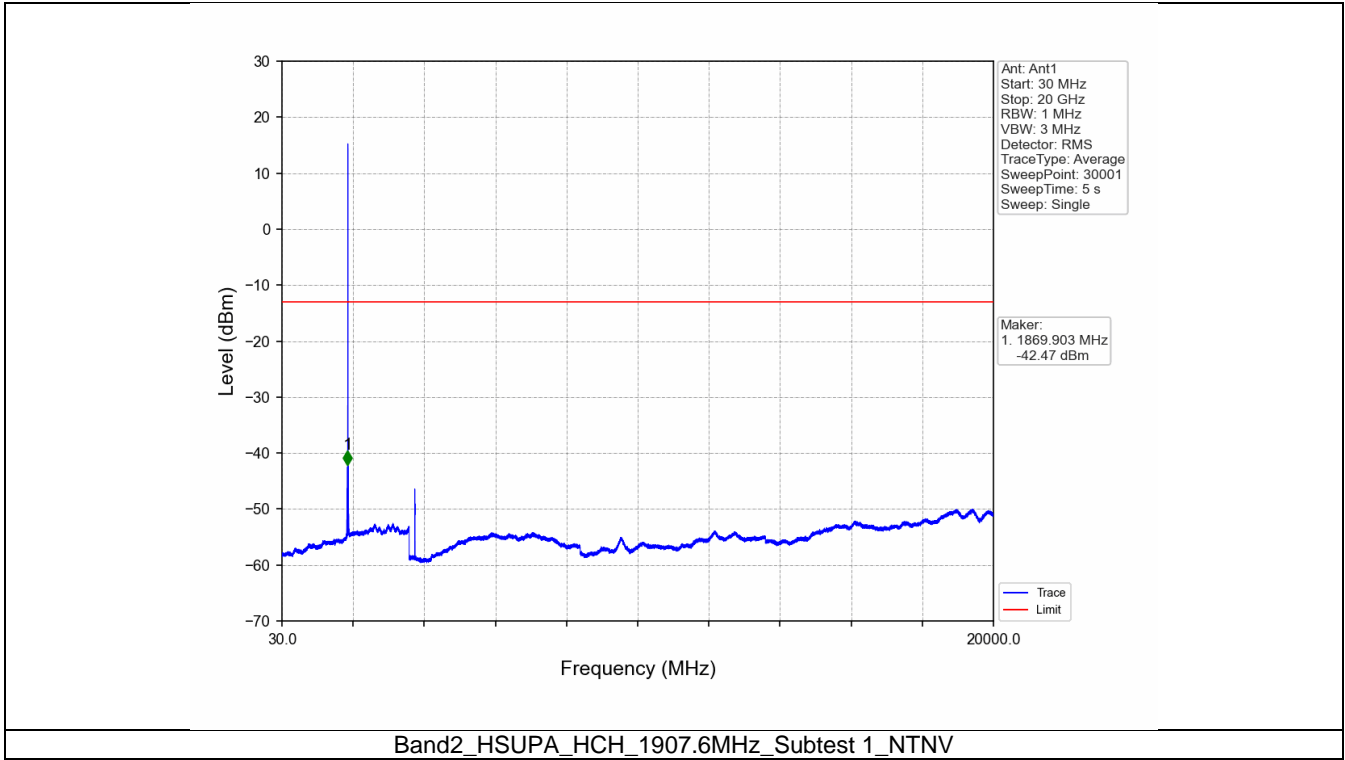


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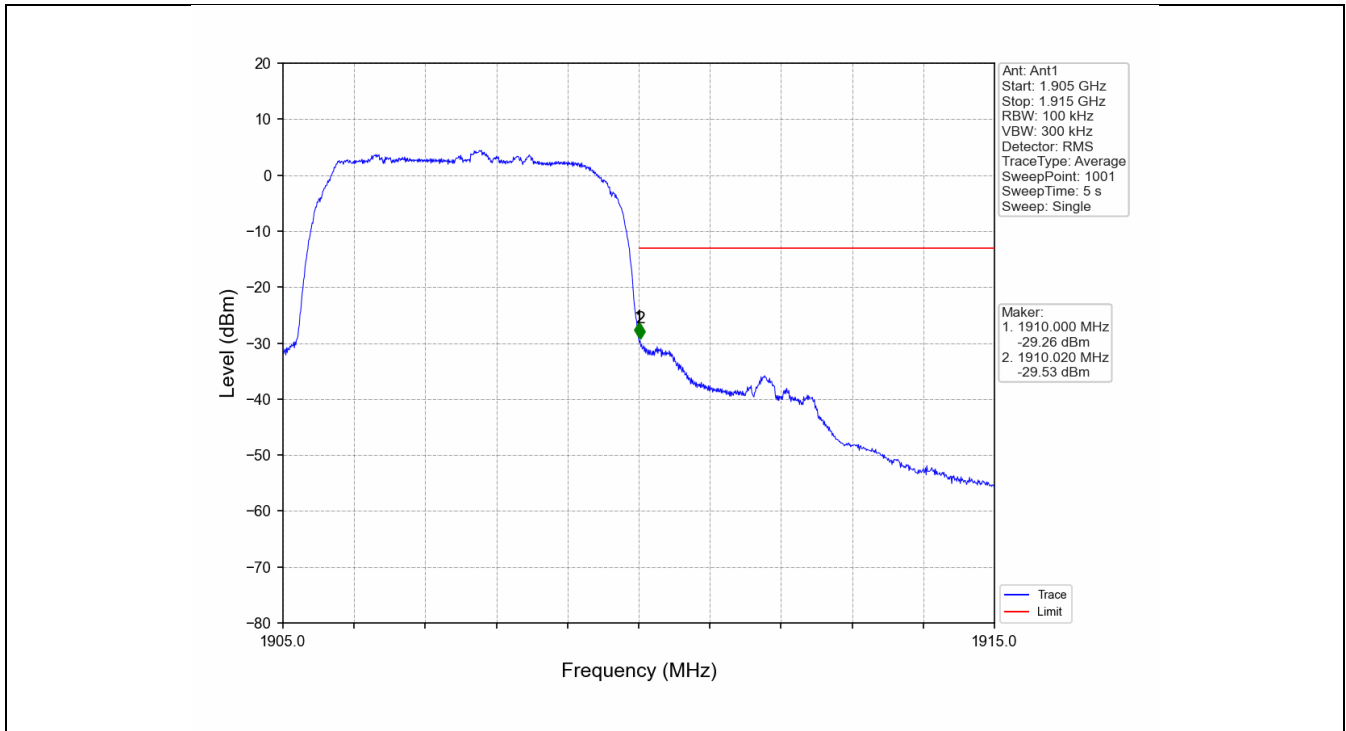


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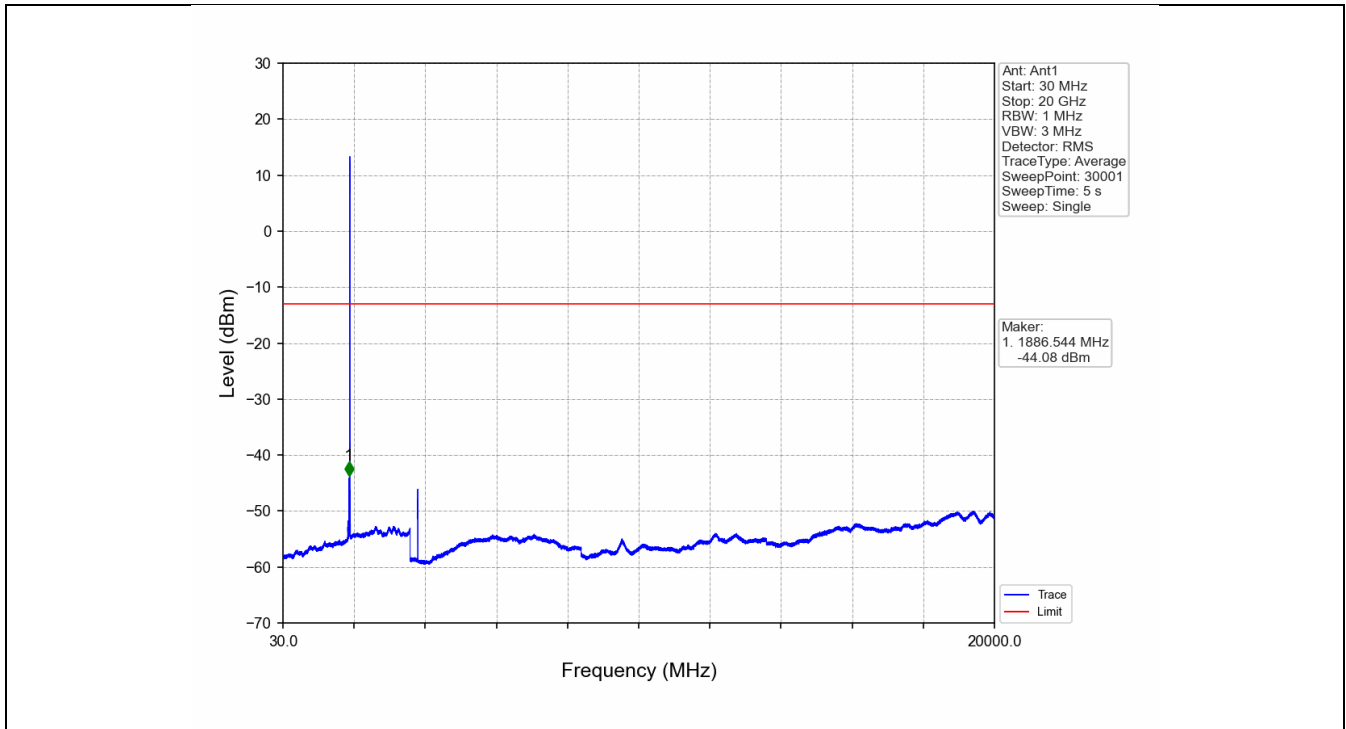
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