

## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 Band5\_ERP

#### 1.1.1 Test Result

Band: 5											
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict			
	Network	Subset				Result	Limit				
NTNV	RMC	12.2kbps RMC	826.4	20.90	0.48	19.23	<=38.45	Pass			
			836.6	20.87	0.48	19.20	<=38.45	Pass			
			846.6	20.78	0.48	19.11	<=38.45	Pass			
	HSDPA		Subtest 1	826.4	18.66	0.48	16.99	<=38.45	Pass		
			Subtest 2	826.4	18.65	0.48	16.98	<=38.45	Pass		
			Subtest 3	826.4	18.69	0.48	17.02	<=38.45	Pass		
			Subtest 4	826.4	18.67	0.48	17.00	<=38.45	Pass		
			Subtest 1	836.6	18.61	0.48	16.94	<=38.45	Pass		
			Subtest 2	836.6	18.61	0.48	16.94	<=38.45	Pass		
			Subtest 3	836.6	18.62	0.48	16.95	<=38.45	Pass		
			Subtest 4	836.6	18.61	0.48	16.94	<=38.45	Pass		
			Subtest 1	846.6	18.39	0.48	16.72	<=38.45	Pass		
			Subtest 2	846.6	18.40	0.48	16.73	<=38.45	Pass		
			Subtest 3	846.6	18.40	0.48	16.73	<=38.45	Pass		
			Subtest 4	846.6	18.41	0.48	16.74	<=38.45	Pass		
			HSUPA		Subtest 1	826.4	16.66	0.48	14.99	<=38.45	Pass
					Subtest 2	826.4	16.42	0.48	14.75	<=38.45	Pass
					Subtest 3	826.4	16.18	0.48	14.51	<=38.45	Pass
	Subtest 4	826.4			16.65	0.48	14.98	<=38.45	Pass		
	Subtest 5	826.4			16.46	0.48	14.79	<=38.45	Pass		
	Subtest 1	836.6			16.39	0.48	14.72	<=38.45	Pass		
	Subtest 2	836.6			16.63	0.48	14.96	<=38.45	Pass		
	Subtest 3	836.6			16.62	0.48	14.95	<=38.45	Pass		
	Subtest 4	836.6			16.45	0.48	14.78	<=38.45	Pass		
	Subtest 5	836.6			16.62	0.48	14.95	<=38.45	Pass		
	Subtest 1	846.6			16.51	0.48	14.84	<=38.45	Pass		
	Subtest 2	846.6			16.52	0.48	14.85	<=38.45	Pass		
	Subtest 3	846.6			16.52	0.48	14.85	<=38.45	Pass		
	Subtest 4	846.6			16.56	0.48	14.89	<=38.45	Pass		
	Subtest 5	846.6			16.30	0.48	14.63	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 Band5

## 2.1.1 Test Result

Band: 5										
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
					Result	Limit				
RMC	826.4	20	3.27	-0.072	-0.0001	-2.5 to 2.5	Pass			
			3.85	0.243	0.0003	-2.5 to 2.5	Pass			
			4.43	-0.236	-0.0003	-2.5 to 2.5	Pass			
		836.6	-30	3.85	-0.894	-0.0011	-2.5 to 2.5	Pass		
				-20	3.85	-1.073	-0.0013	-2.5 to 2.5	Pass	
				-10	3.85	-0.808	-0.0010	-2.5 to 2.5	Pass	
			846.6	0	3.85	-1.094	-0.0013	-2.5 to 2.5	Pass	
					10	3.85	-1.602	-0.0019	-2.5 to 2.5	Pass
					30	3.85	-1.044	-0.0013	-2.5 to 2.5	Pass
	826.4			40	3.85	-1.059	-0.0013	-2.5 to 2.5	Pass	
					50	3.85	-0.393	-0.0005	-2.5 to 2.5	Pass
					20	3.27	-0.837	-0.0010	-2.5 to 2.5	Pass
		836.6		20	3.85	-1.602	-0.0019	-2.5 to 2.5	Pass	
					4.43	-0.393	-0.0005	-2.5 to 2.5	Pass	
					-30	3.85	-0.679	-0.0008	-2.5 to 2.5	Pass
			846.6	-20	3.85	-0.451	-0.0005	-2.5 to 2.5	Pass	
					-10	3.85	-0.608	-0.0007	-2.5 to 2.5	Pass
					0	3.85	-0.279	-0.0003	-2.5 to 2.5	Pass
	826.4			10	3.85	-0.508	-0.0006	-2.5 to 2.5	Pass	
					30	3.85	-1.023	-0.0012	-2.5 to 2.5	Pass
					40	3.85	-0.336	-0.0004	-2.5 to 2.5	Pass
		836.6		50	3.85	-0.458	-0.0005	-2.5 to 2.5	Pass	
					20	3.27	0.358	0.0004	-2.5 to 2.5	Pass
					3.85	-0.336	-0.0004	-2.5 to 2.5	Pass	
			846.6	-30	4.43	0.222	0.0003	-2.5 to 2.5	Pass	
					-20	3.85	0.358	0.0004	-2.5 to 2.5	Pass
					-10	3.85	0.465	0.0005	-2.5 to 2.5	Pass
	826.4			0	3.85	0.772	0.0009	-2.5 to 2.5	Pass	
					10	3.85	0.043	0.0001	-2.5 to 2.5	Pass
					30	3.85	0.479	0.0006	-2.5 to 2.5	Pass
836.6		40		3.85	1.166	0.0014	-2.5 to 2.5	Pass		
				50	3.85	0.043	0.0001	-2.5 to 2.5	Pass	
				20	3.85	0.243	0.0003	-2.5 to 2.5	Pass	
		846.6	20	3.27	-0.637	-0.0008	-2.5 to 2.5	Pass		
				3.85	-0.114	-0.0001	-2.5 to 2.5	Pass		
				4.43	-0.343	-0.0004	-2.5 to 2.5	Pass		
	826.4		-30	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass		
				-20	3.85	-0.014	0.0000	-2.5 to 2.5	Pass	
				-10	3.85	-1.194	-0.0014	-2.5 to 2.5	Pass	
836.6			0	3.85	-0.379	-0.0005	-2.5 to 2.5	Pass		
				10	3.85	-1.109	-0.0013	-2.5 to 2.5	Pass	
				30	3.85	-1.552	-0.0019	-2.5 to 2.5	Pass	
		846.6	40	3.85	-0.651	-0.0008	-2.5 to 2.5	Pass		
				50	3.85	-0.951	-0.0012	-2.5 to 2.5	Pass	
				20	3.27	-0.057	-0.0001	-2.5 to 2.5	Pass	
	826.4		20	3.85	0.157	0.0002	-2.5 to 2.5	Pass		
				4.43	-0.229	-0.0003	-2.5 to 2.5	Pass		
				-30	3.85	0.165	0.0002	-2.5 to 2.5	Pass	
836.6			-20	3.85	-0.851	-0.0010	-2.5 to 2.5	Pass		

		-10	3.85	-0.544	-0.0007	-2.5 to 2.5	Pass		
		0	3.85	0.544	0.0007	-2.5 to 2.5	Pass		
		10	3.85	0.029	0.0000	-2.5 to 2.5	Pass		
		30	3.85	-0.193	-0.0002	-2.5 to 2.5	Pass		
		40	3.85	0.236	0.0003	-2.5 to 2.5	Pass		
		50	3.85	-0.250	-0.0003	-2.5 to 2.5	Pass		
	846.6	20	3.27	0.515	0.0006	-2.5 to 2.5	Pass		
			3.85	-0.651	-0.0008	-2.5 to 2.5	Pass		
			4.43	-0.057	-0.0001	-2.5 to 2.5	Pass		
		-30	3.85	0.200	0.0002	-2.5 to 2.5	Pass		
		-20	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass		
		-10	3.85	0.150	0.0002	-2.5 to 2.5	Pass		
		0	3.85	-0.272	-0.0003	-2.5 to 2.5	Pass		
		10	3.85	0.014	0.0000	-2.5 to 2.5	Pass		
		30	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass		
		40	3.85	0.329	0.0004	-2.5 to 2.5	Pass		
		50	3.85	0.393	0.0005	-2.5 to 2.5	Pass		
		HSUPA	826.4	20	3.27	1.466	0.0018	-2.5 to 2.5	Pass
					3.85	1.109	0.0013	-2.5 to 2.5	Pass
4.43	0.229				0.0003	-2.5 to 2.5	Pass		
-30	3.85			0.701	0.0008	-2.5 to 2.5	Pass		
-20	3.85			1.559	0.0019	-2.5 to 2.5	Pass		
-10	3.85			1.388	0.0017	-2.5 to 2.5	Pass		
0	3.85			1.874	0.0023	-2.5 to 2.5	Pass		
10	3.85			1.273	0.0015	-2.5 to 2.5	Pass		
30	3.85			0.644	0.0008	-2.5 to 2.5	Pass		
40	3.85			1.166	0.0014	-2.5 to 2.5	Pass		
50	3.85		0.737	0.0009	-2.5 to 2.5	Pass			
836.6	20		3.27	1.137	0.0014	-2.5 to 2.5	Pass		
			3.85	1.438	0.0017	-2.5 to 2.5	Pass		
			4.43	1.030	0.0012	-2.5 to 2.5	Pass		
	-30		3.85	1.109	0.0013	-2.5 to 2.5	Pass		
	-20		3.85	3.126	0.0037	-2.5 to 2.5	Pass		
	-10		3.85	1.452	0.0017	-2.5 to 2.5	Pass		
	0		3.85	0.908	0.0011	-2.5 to 2.5	Pass		
	10		3.85	1.602	0.0019	-2.5 to 2.5	Pass		
	30	3.85	0.858	0.0010	-2.5 to 2.5	Pass			
	40	3.85	1.395	0.0017	-2.5 to 2.5	Pass			
50	3.85	0.873	0.0010	-2.5 to 2.5	Pass				
846.6	20	3.27	1.674	0.0020	-2.5 to 2.5	Pass			
		3.85	2.167	0.0026	-2.5 to 2.5	Pass			
		4.43	1.445	0.0017	-2.5 to 2.5	Pass			
	-30	3.85	1.481	0.0017	-2.5 to 2.5	Pass			
	-20	3.85	1.266	0.0015	-2.5 to 2.5	Pass			
	-10	3.85	1.531	0.0018	-2.5 to 2.5	Pass			
	0	3.85	1.416	0.0017	-2.5 to 2.5	Pass			
	10	3.85	1.466	0.0017	-2.5 to 2.5	Pass			
	30	3.85	2.339	0.0028	-2.5 to 2.5	Pass			
	40	3.85	1.566	0.0018	-2.5 to 2.5	Pass			
50	3.85	1.903	0.0022	-2.5 to 2.5	Pass				

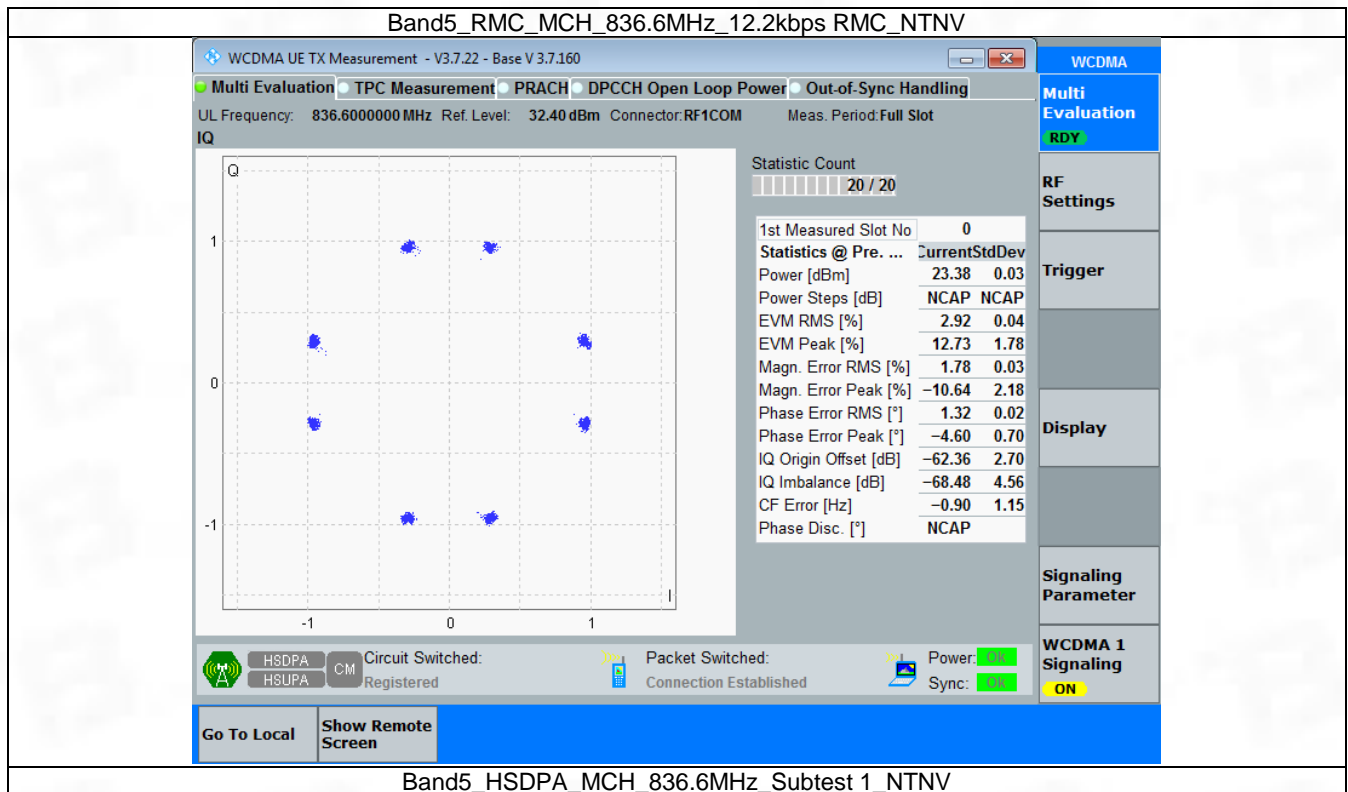
### 3. Modulation Characteristics

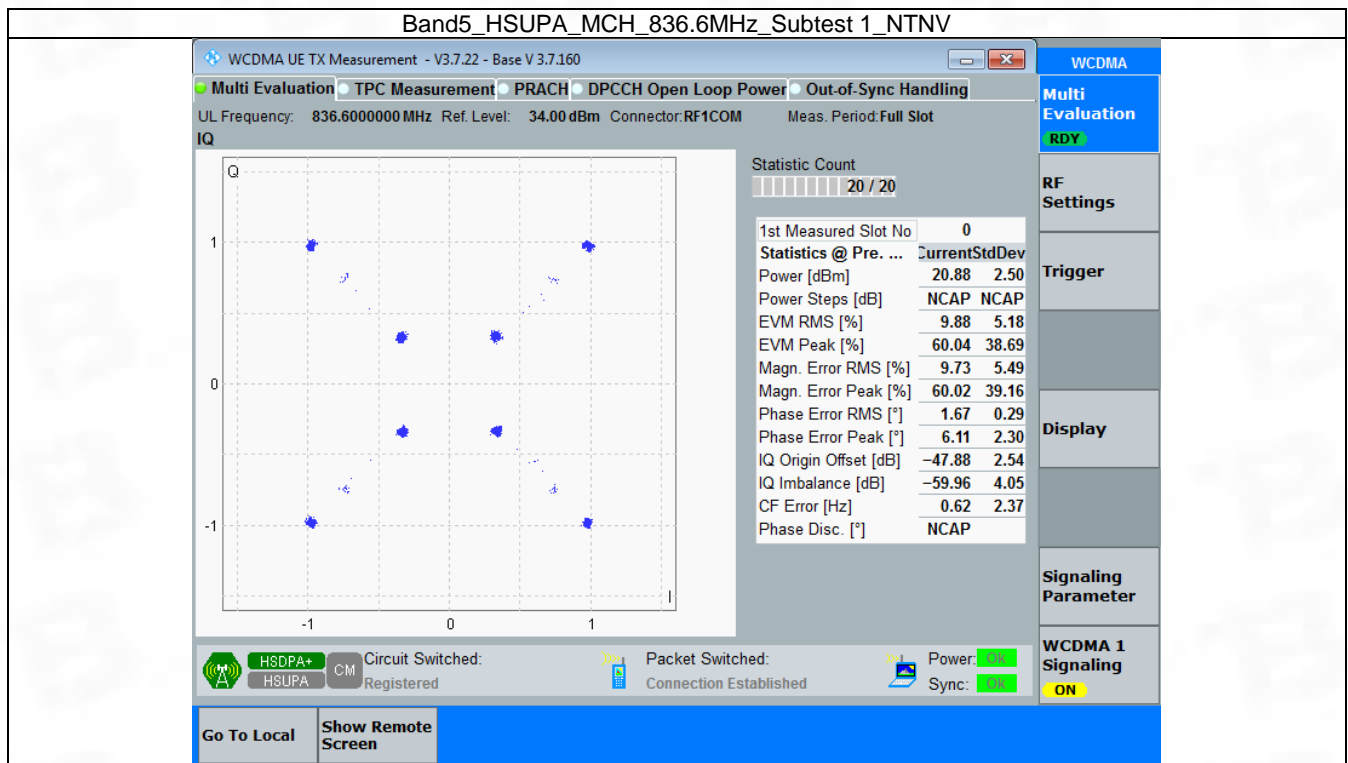
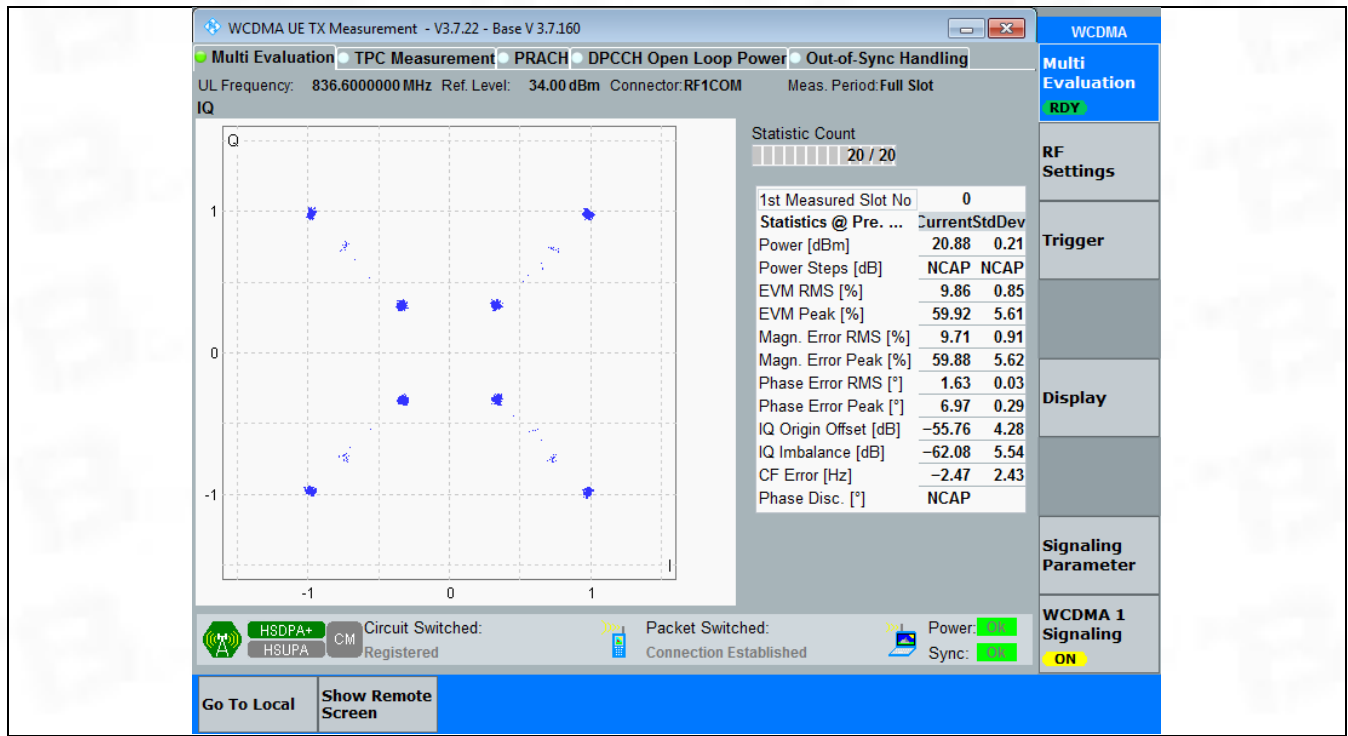
### 3.1 Band5

#### 3.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	836.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	836.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	836.6	Refer To Test Graph		Pass

#### 3.1.2 Test Graph





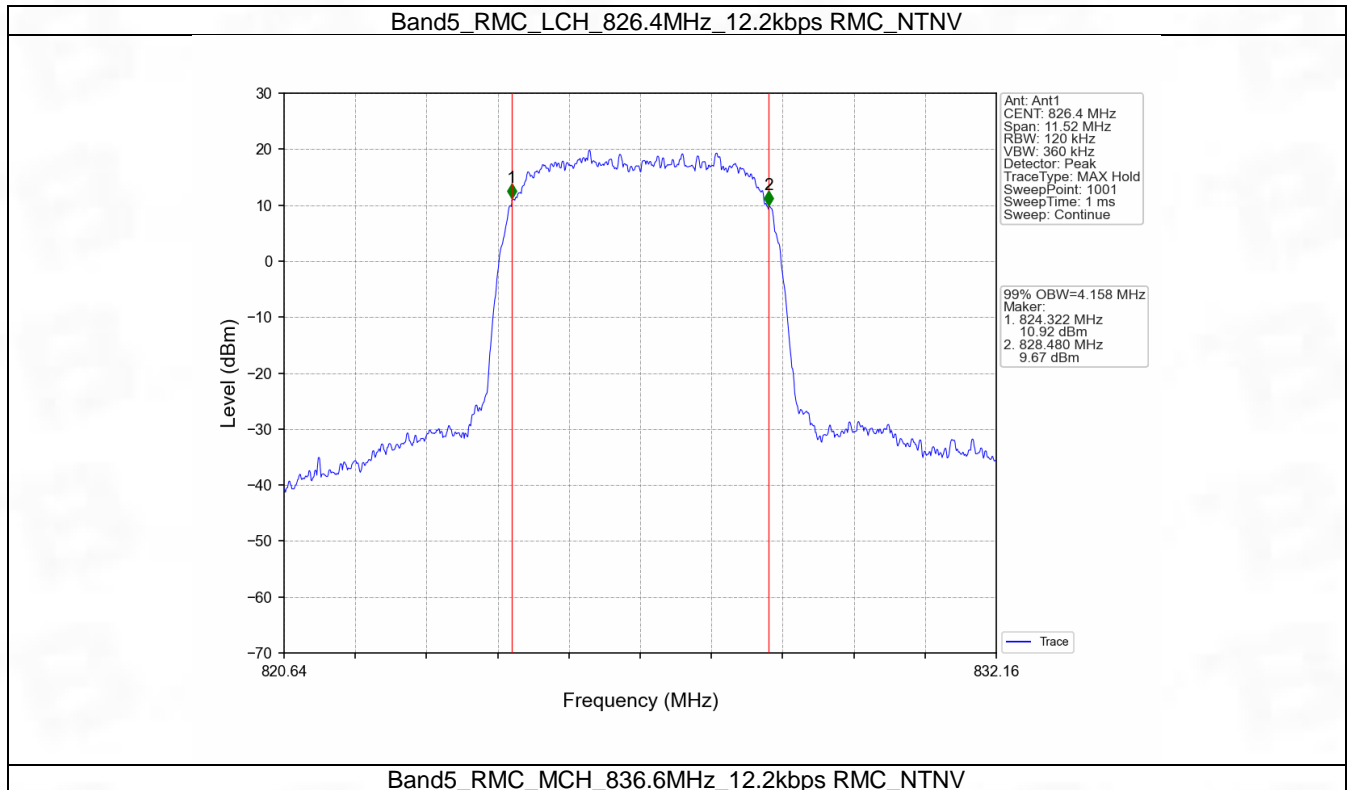
## 4. 99% & 26dB Bandwidth

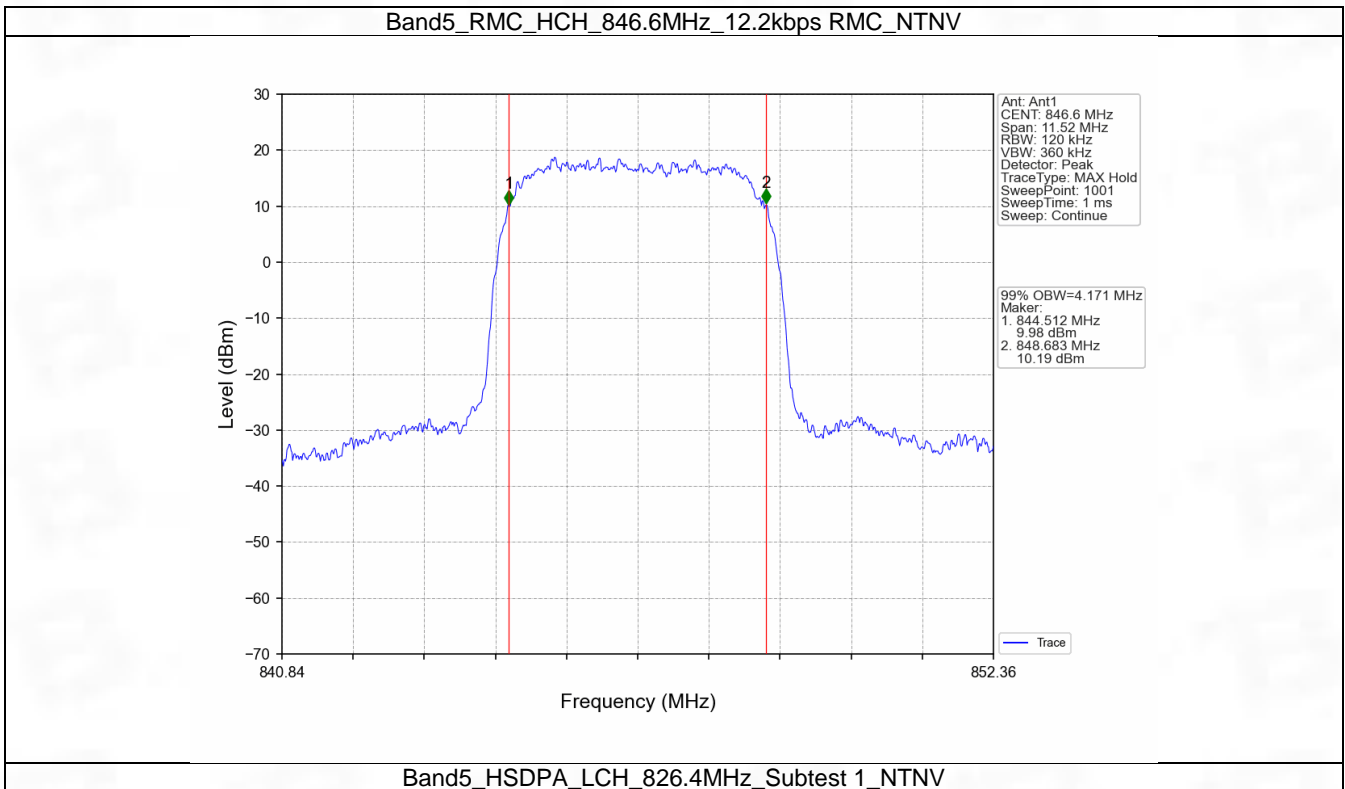
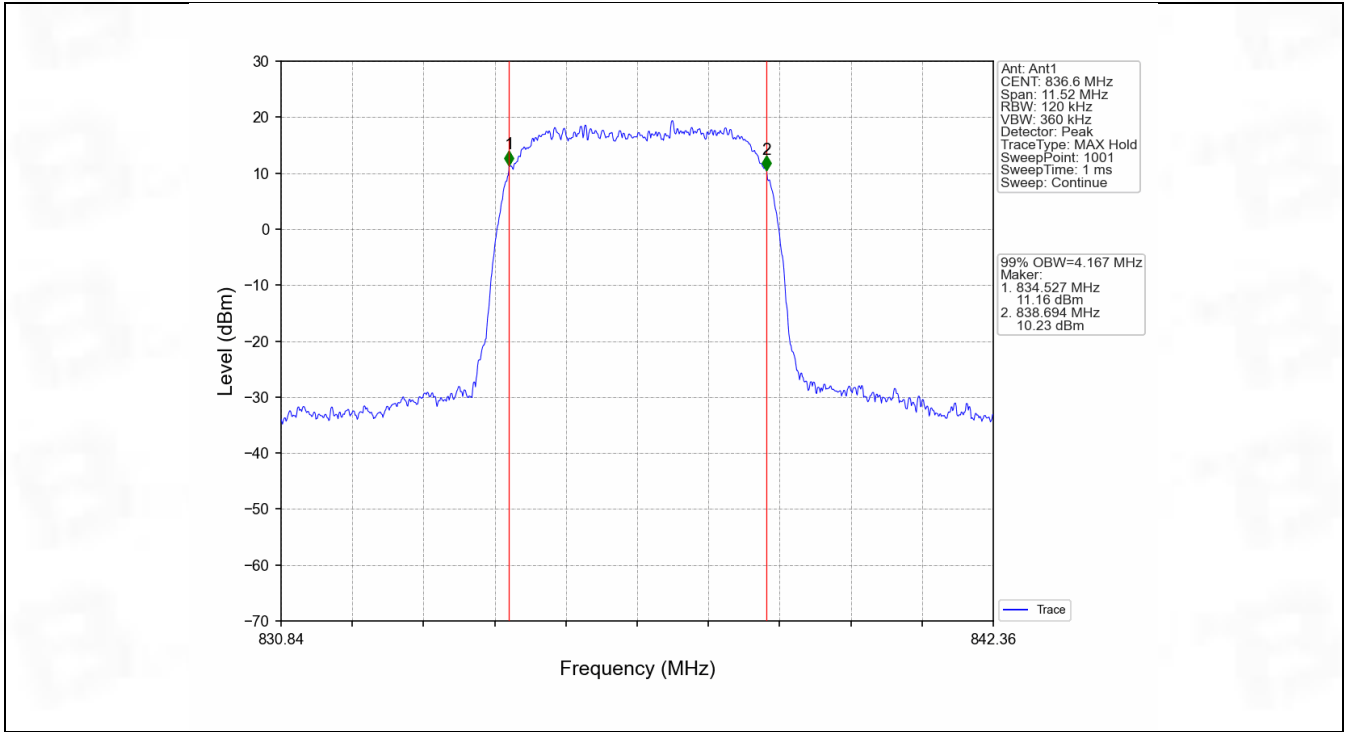
### 4.1 Band5\_OBW

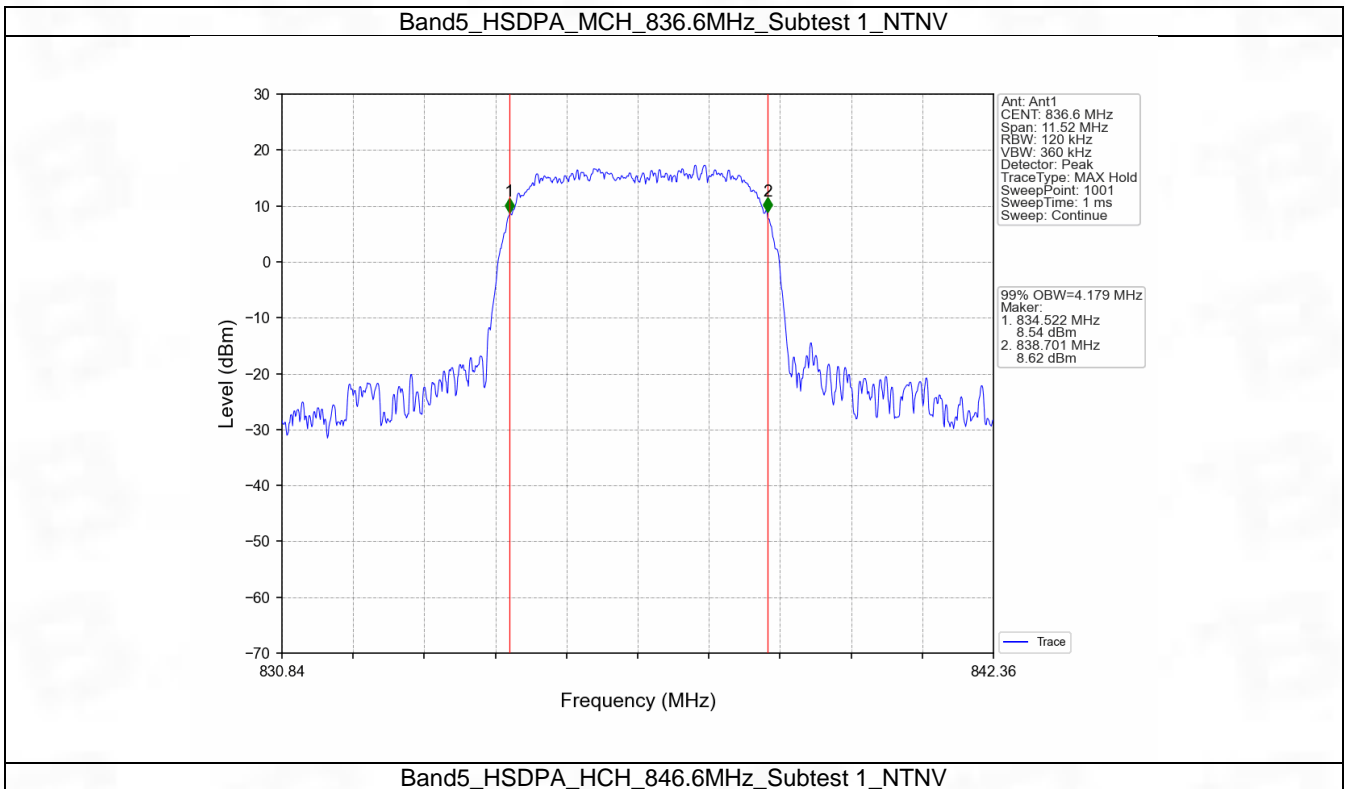
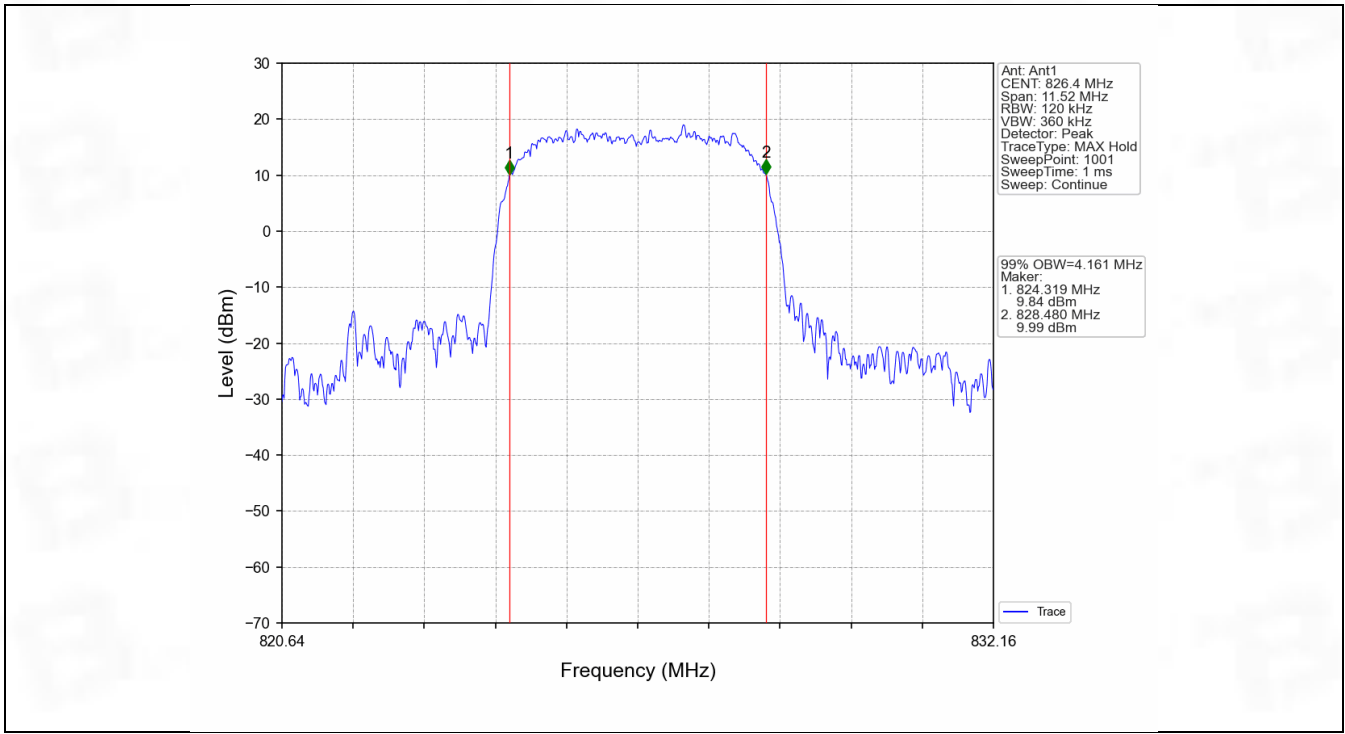
#### 4.1.1 Test Result

Band: 5					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.158	Pass
			836.6	4.167	Pass
			846.6	4.171	Pass
	HSDPA	Subtest 1	826.4	4.161	Pass
			836.6	4.179	Pass
			846.6	4.145	Pass
	HSUPA	Subtest 1	826.4	4.170	Pass
			836.6	4.177	Pass
			846.6	4.159	Pass

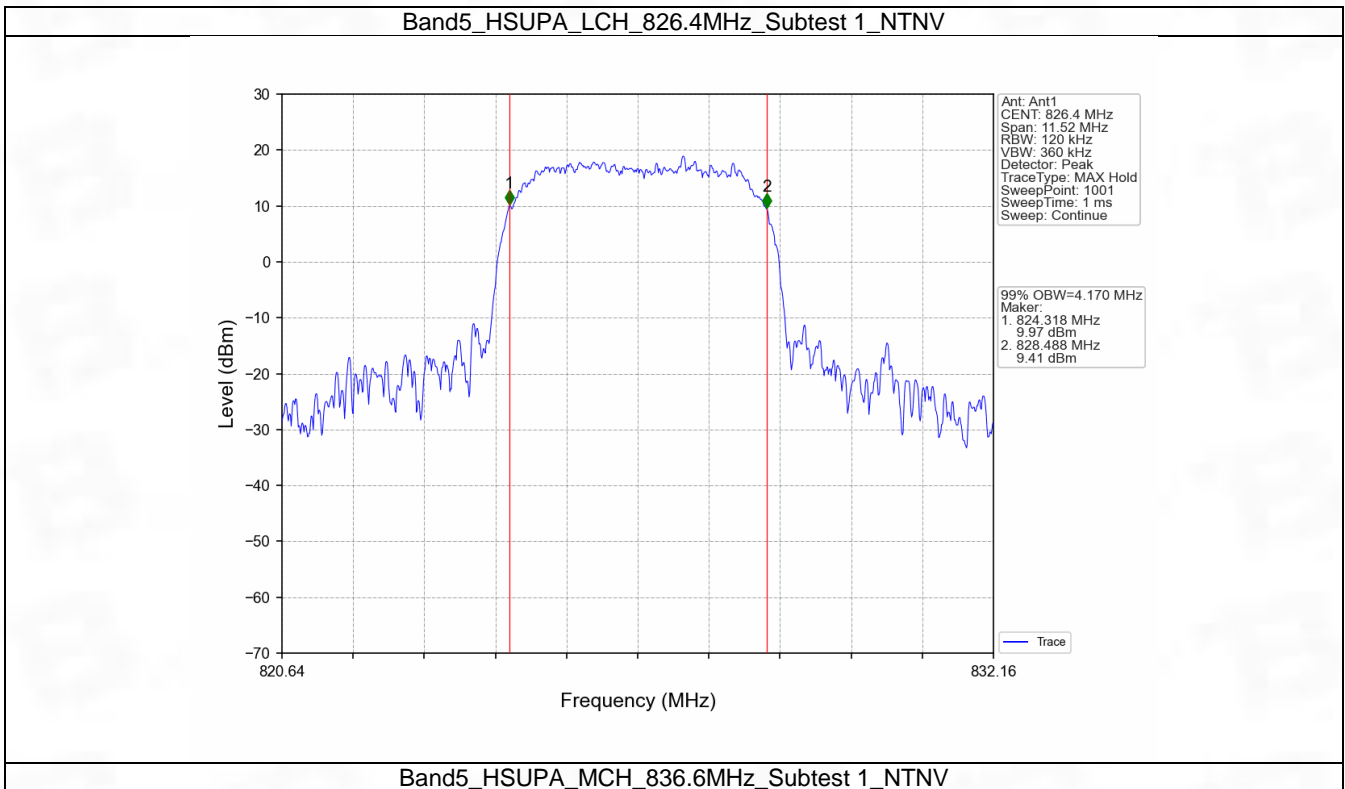
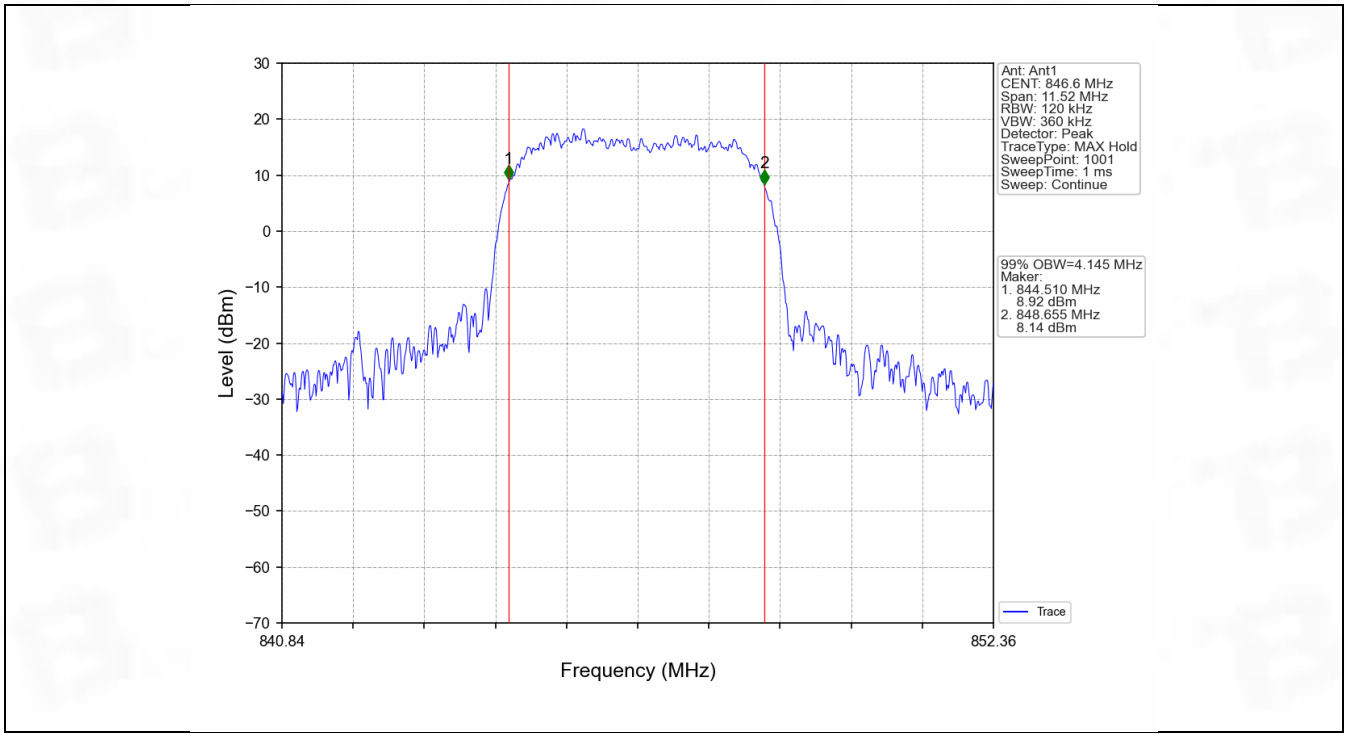
#### 4.1.2 Test Graph

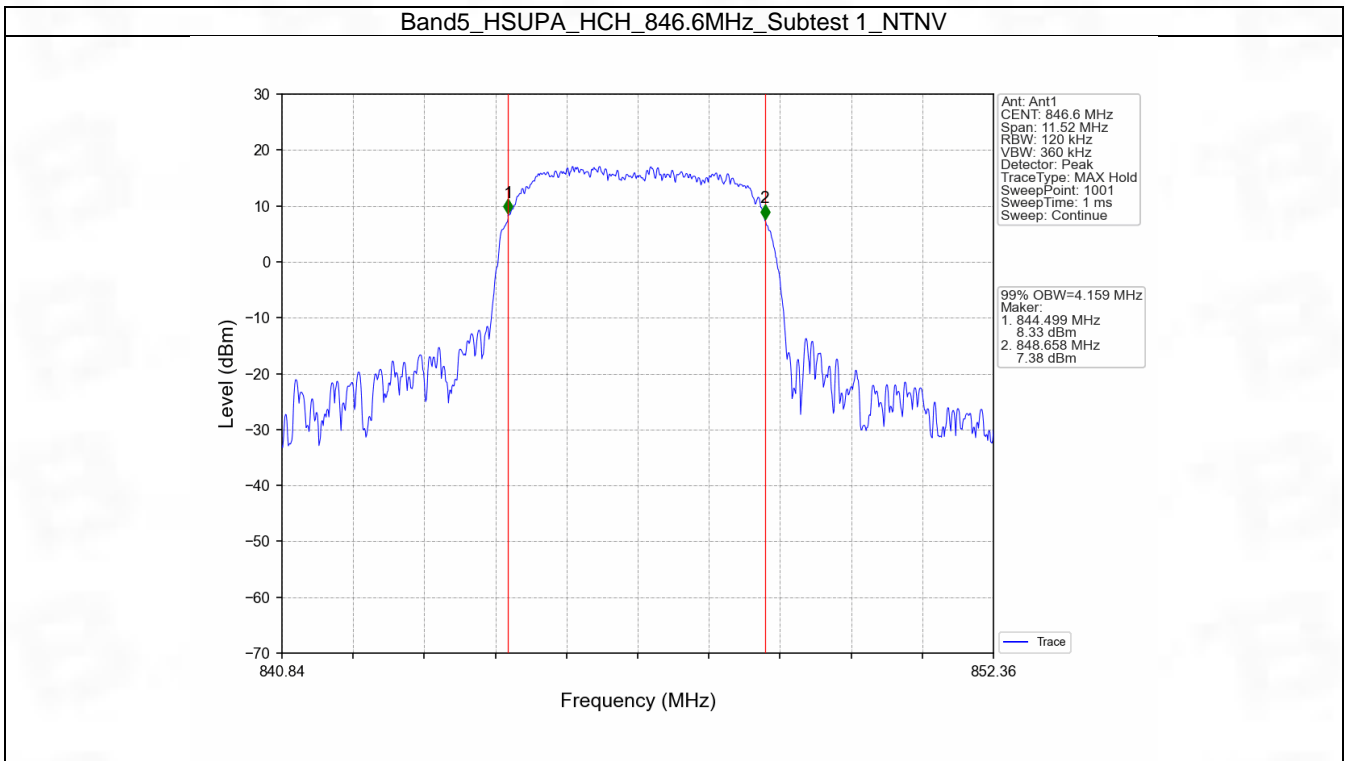
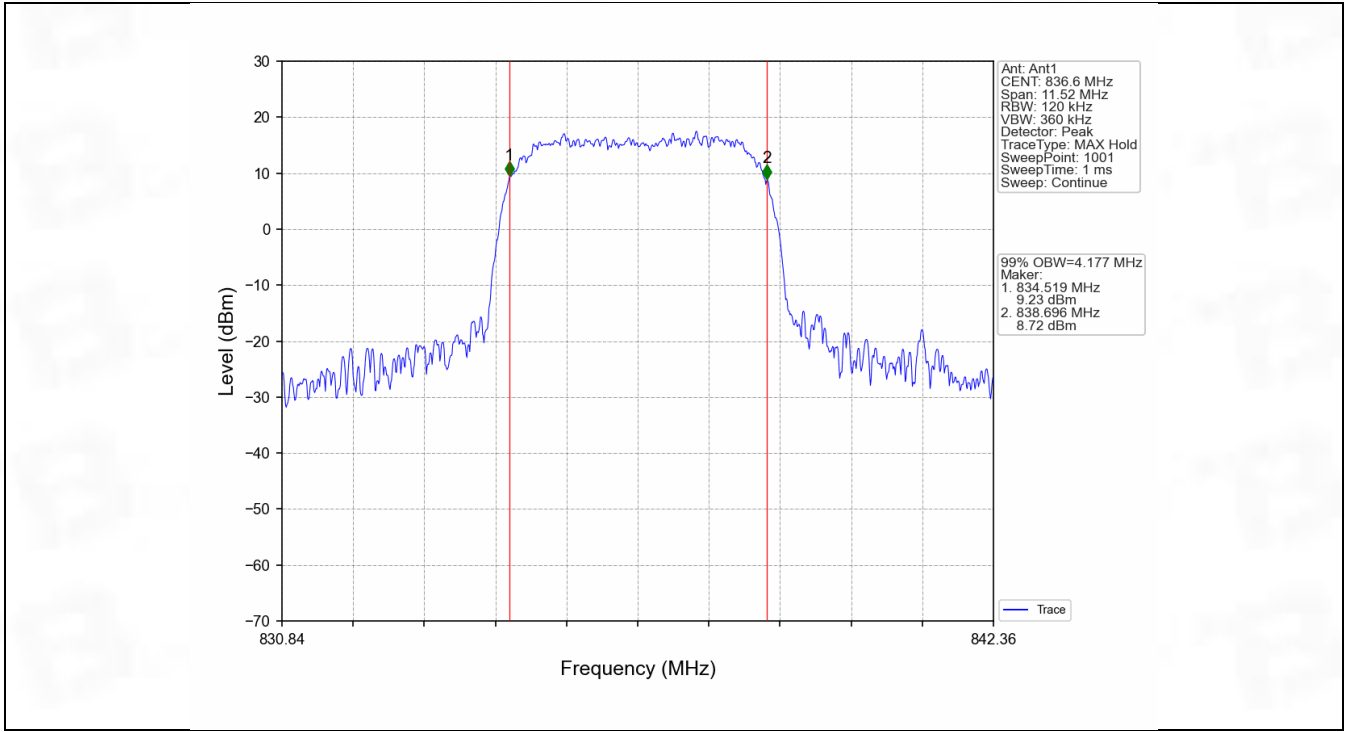










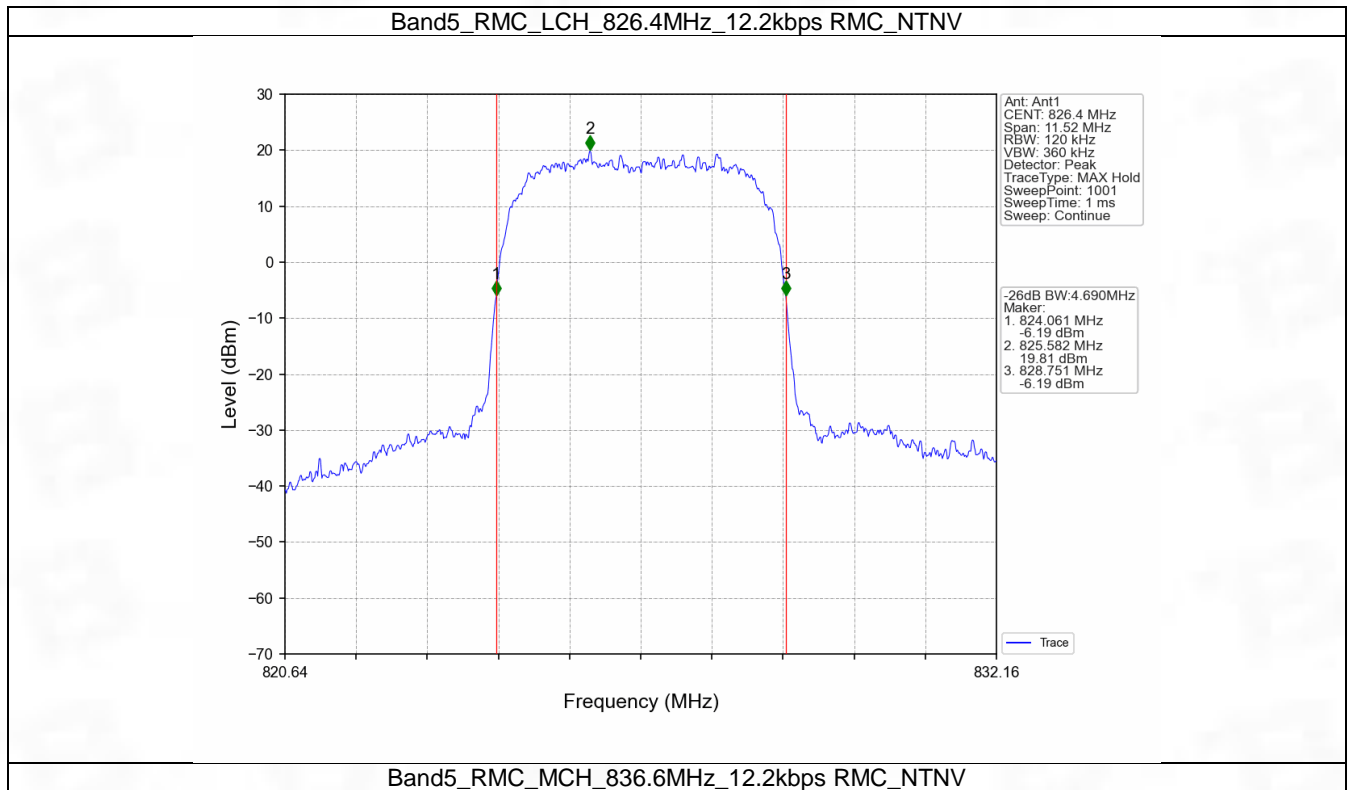


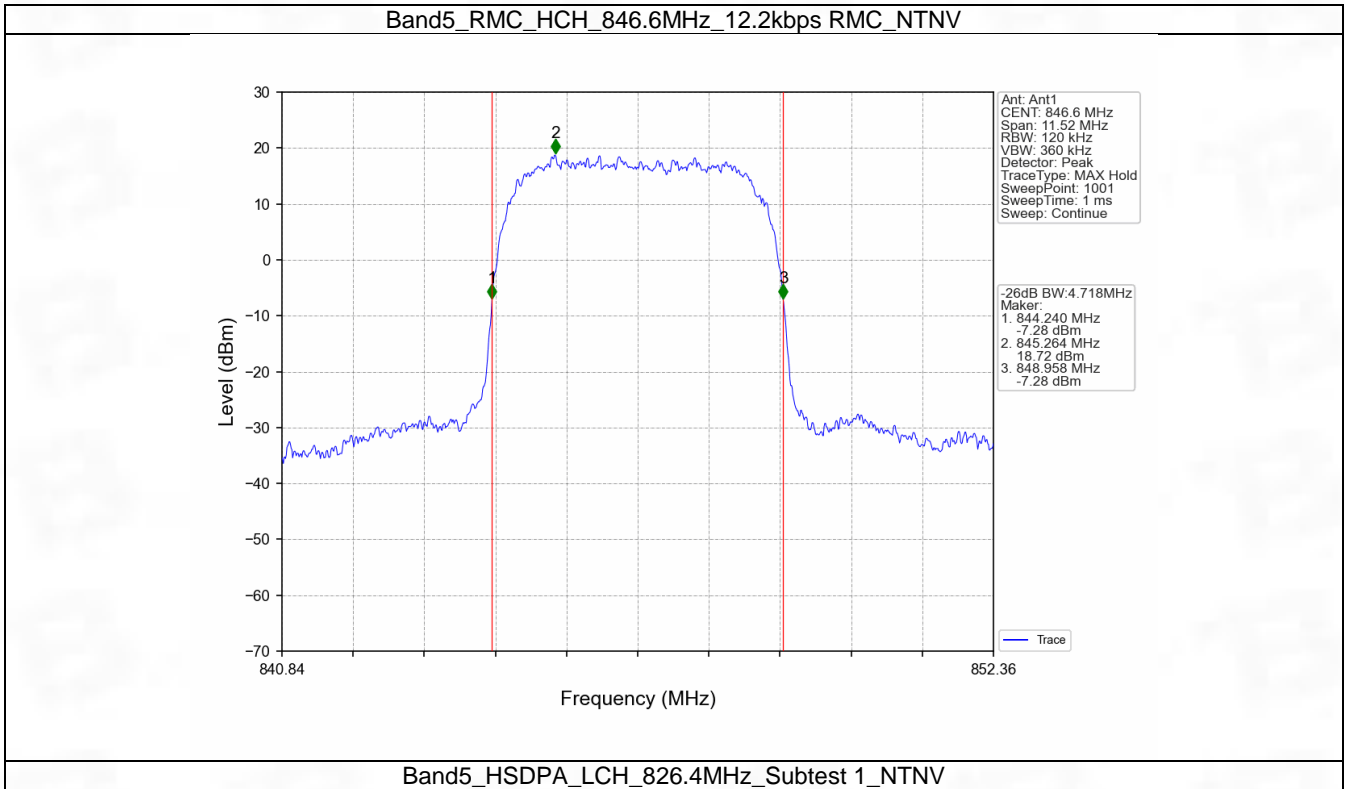
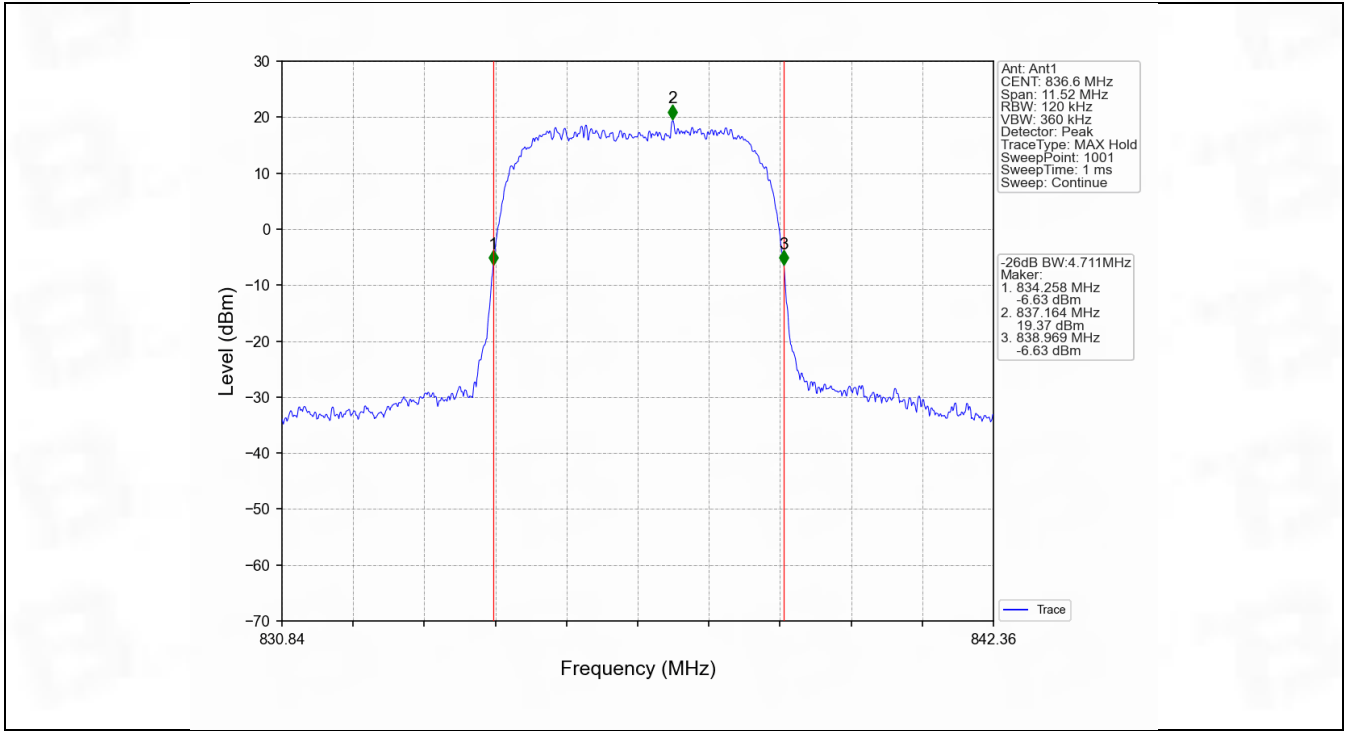
## 4.2 Band5\_XDB

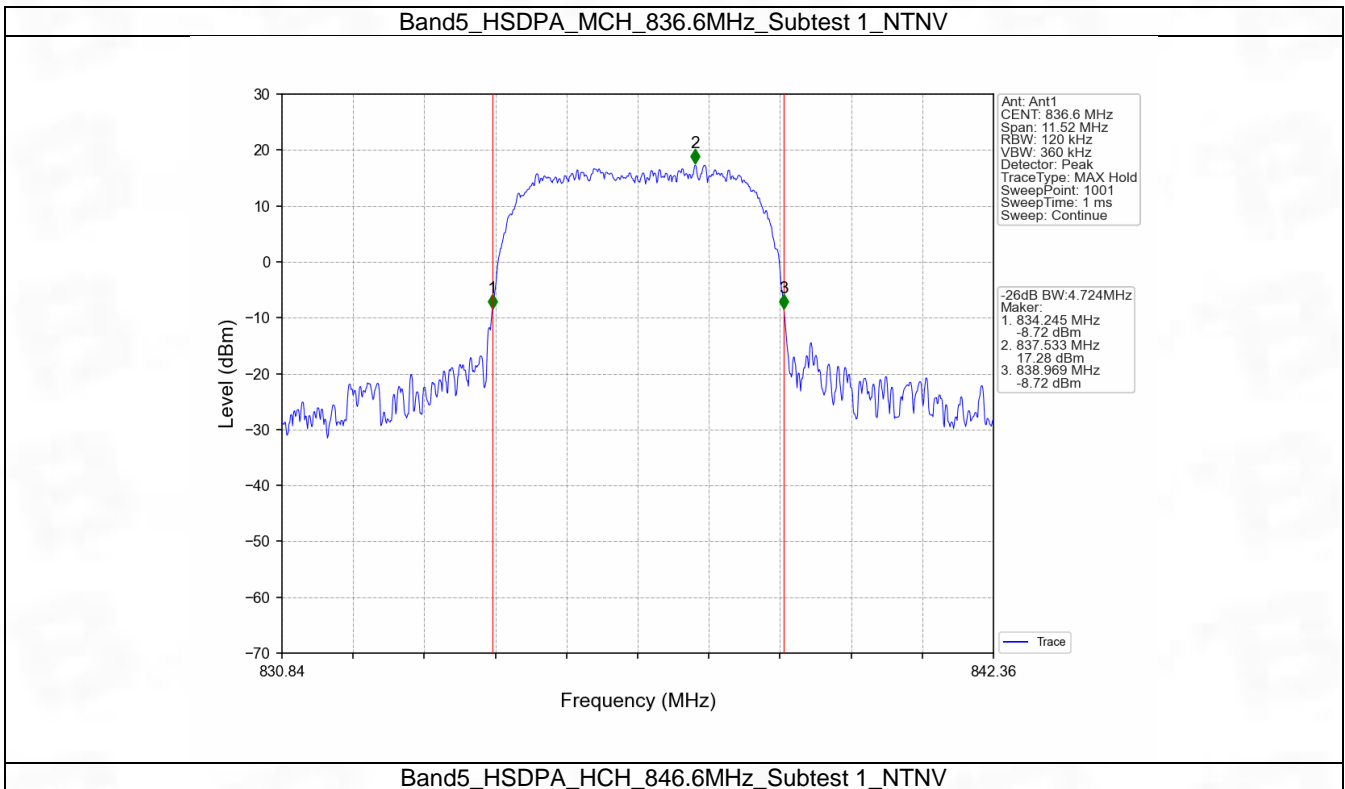
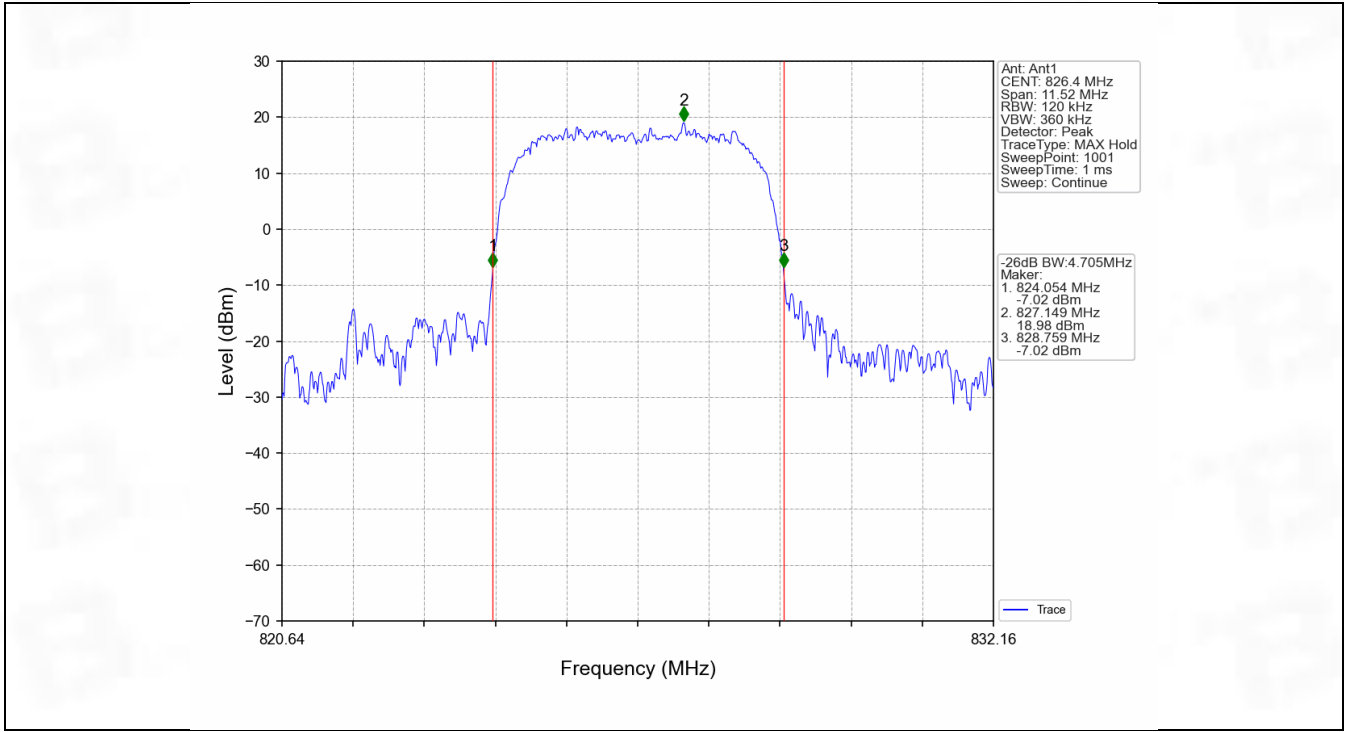
### 4.2.1 Test Result

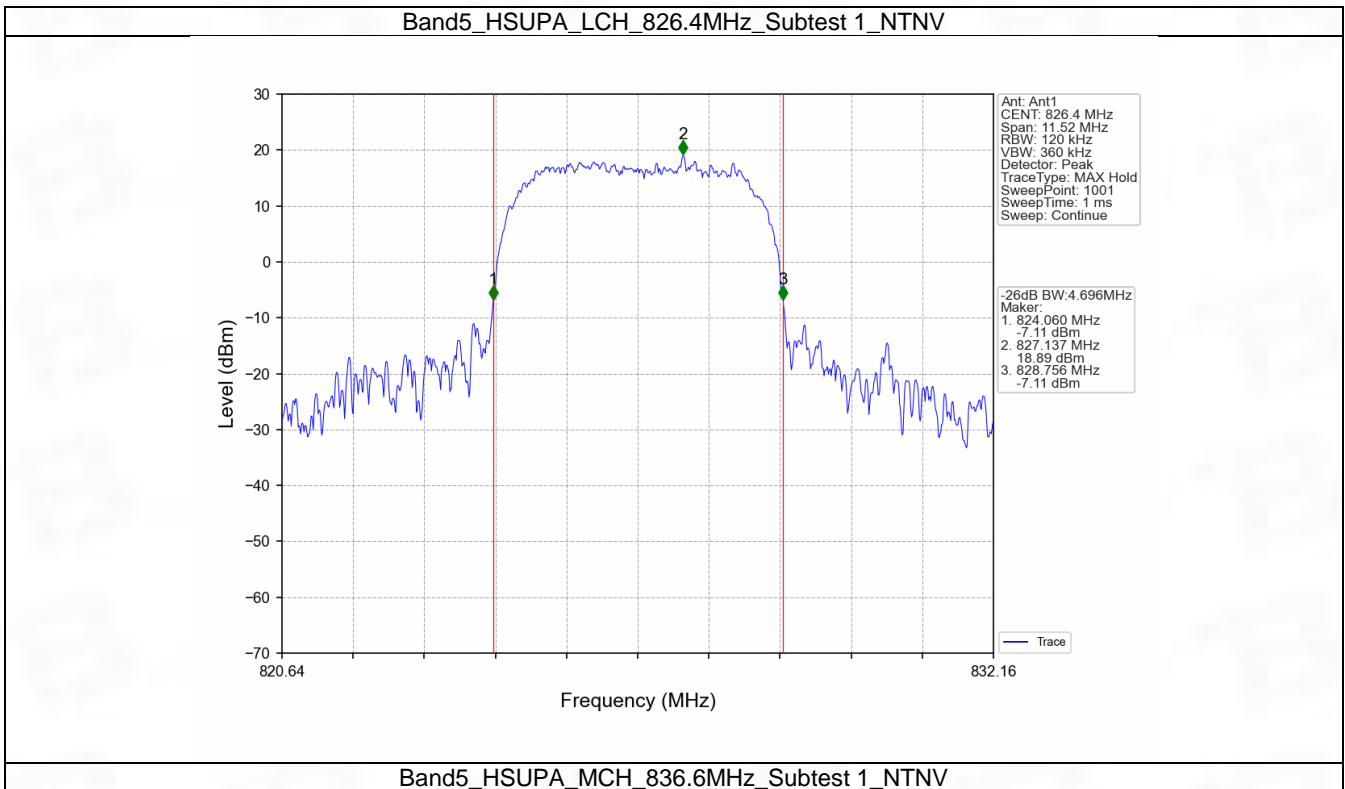
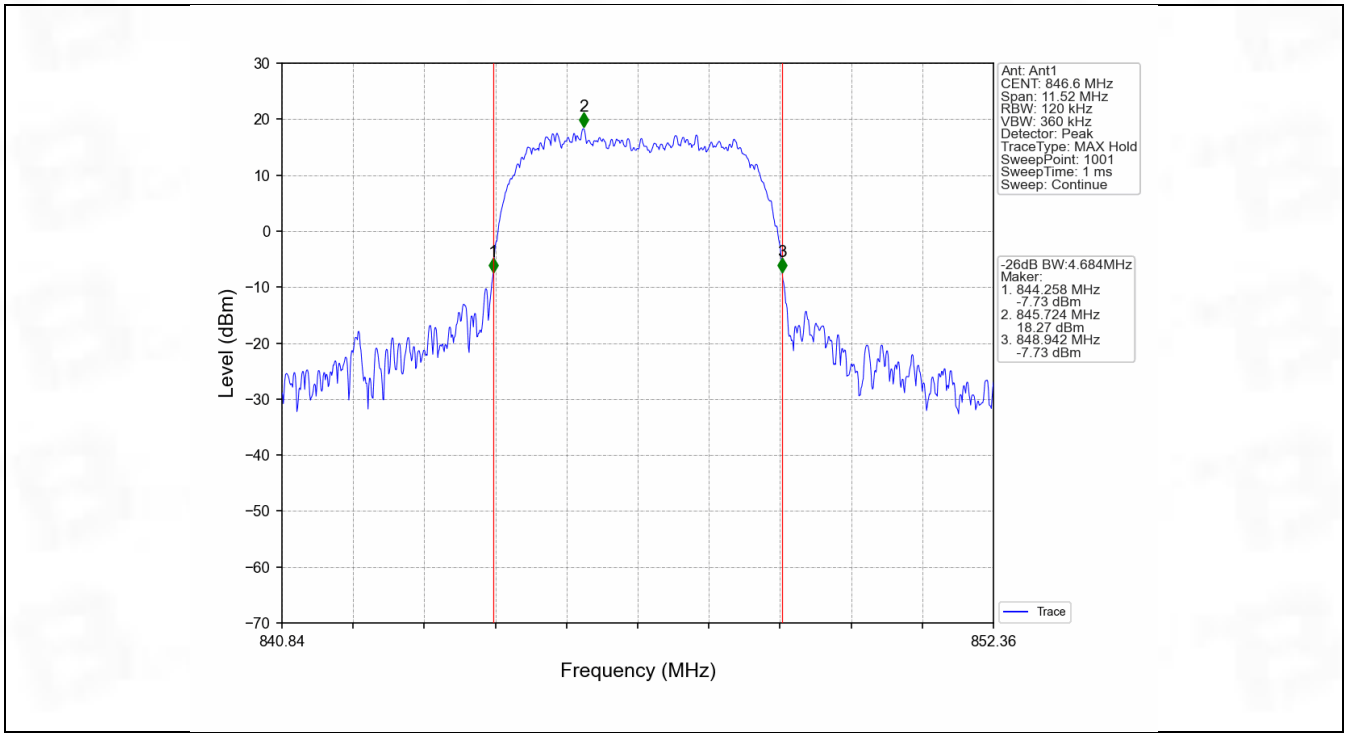
Band: 5					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.690	Pass
			836.6	4.711	Pass
			846.6	4.718	Pass
	HSDPA	Subtest 1	826.4	4.705	Pass
			836.6	4.724	Pass
			846.6	4.684	Pass
	HSUPA	Subtest 1	826.4	4.696	Pass
			836.6	4.731	Pass
			846.6	4.724	Pass

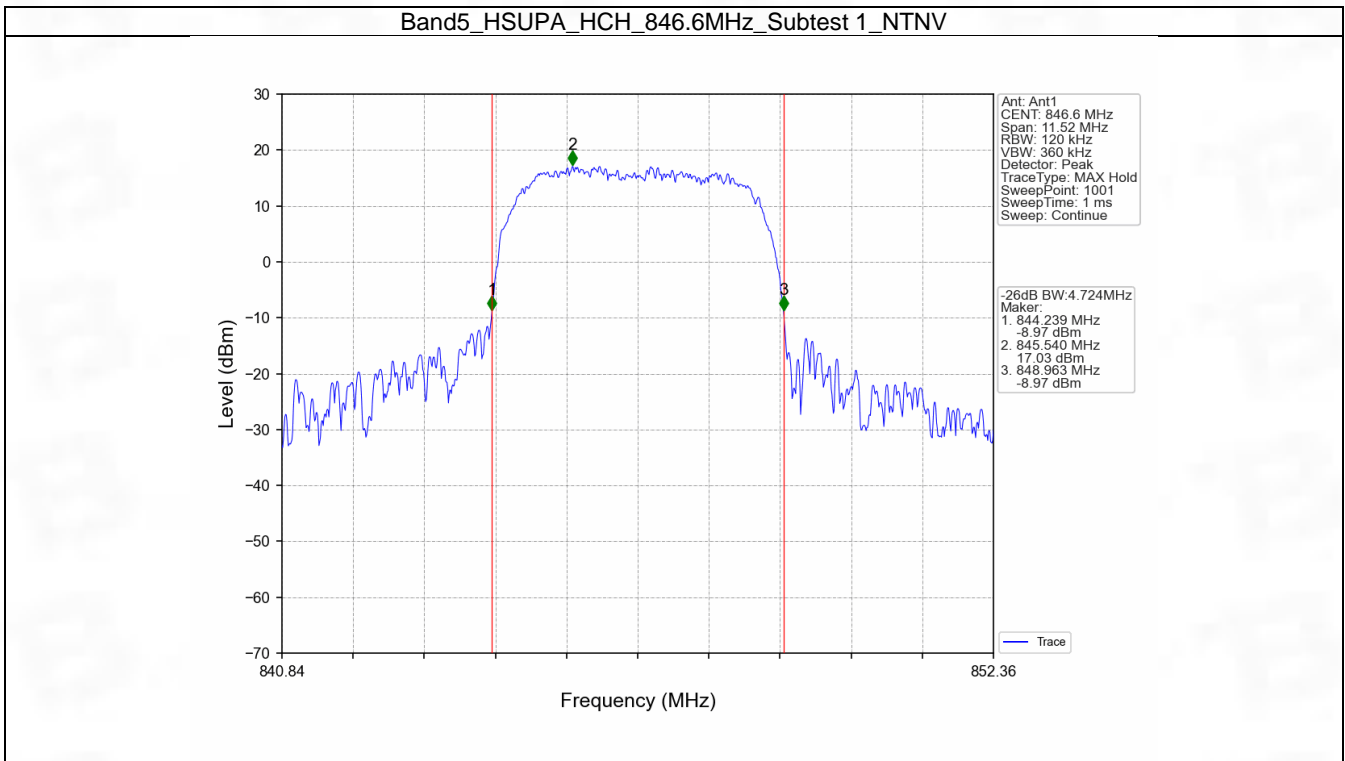
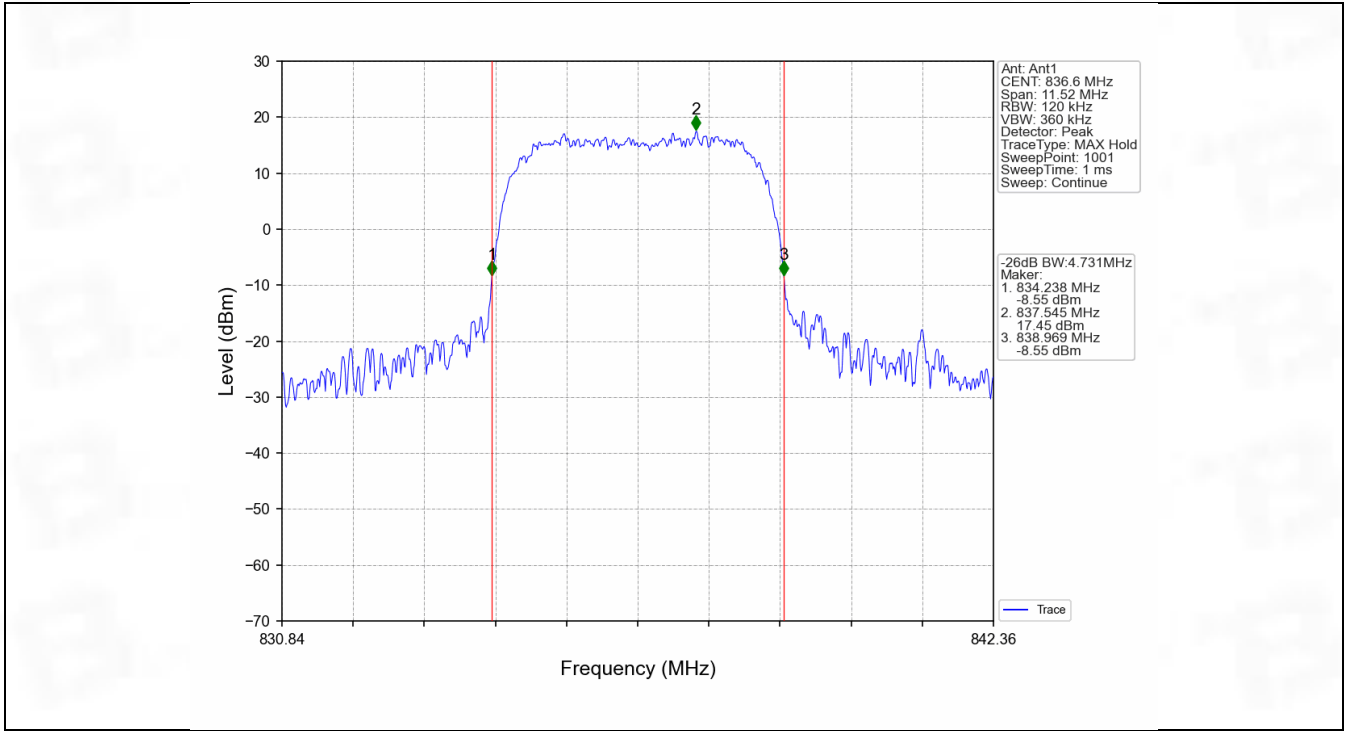
### 4.2.2 Test Graph











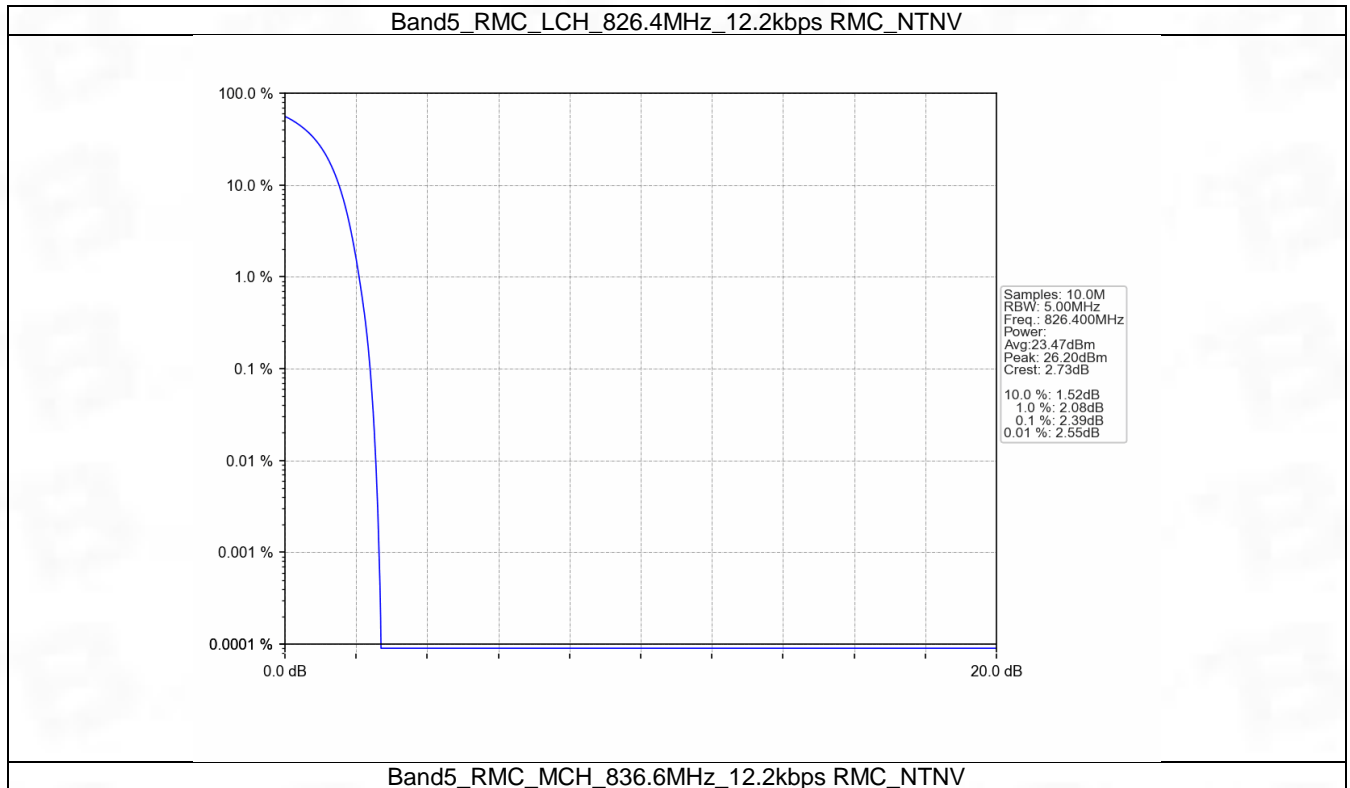
## 5. Peak-Average Ratio

### 5.1 Band5

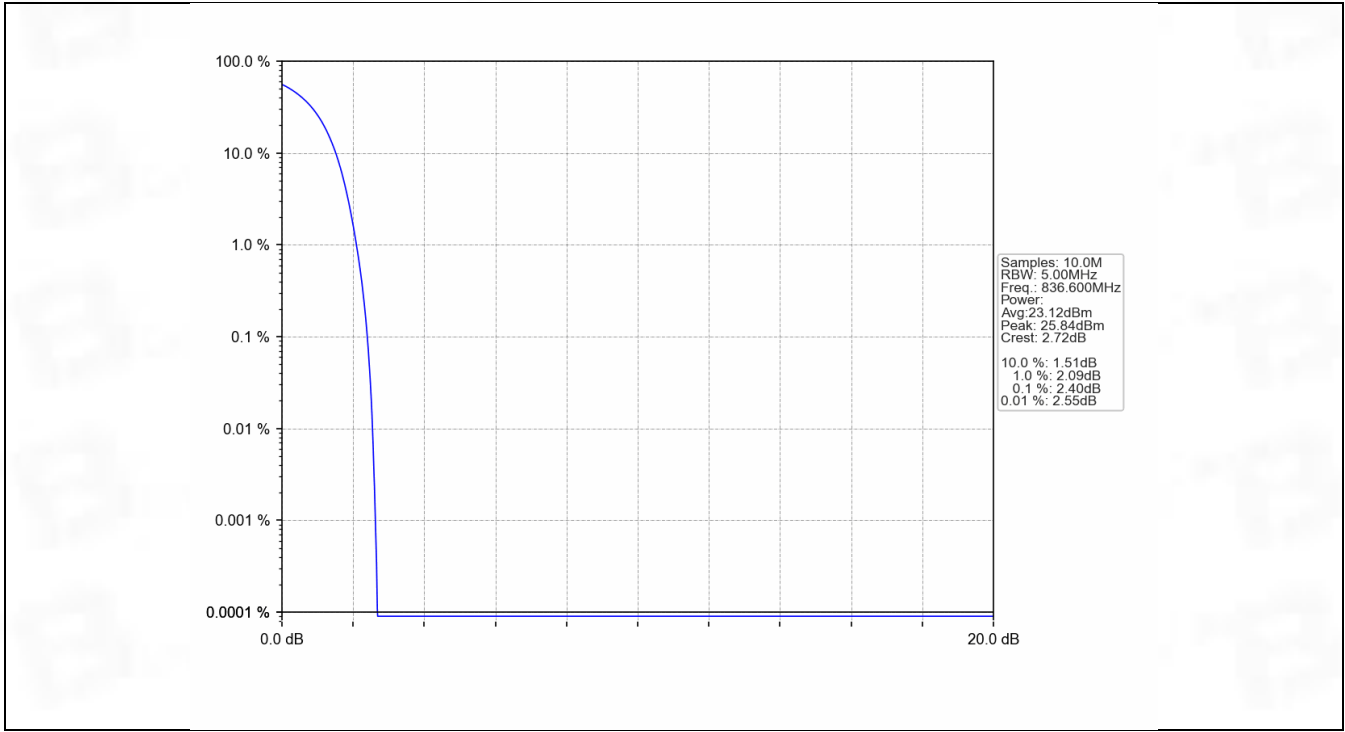
#### 5.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.39	<=13	Pass
			836.6	2.40	<=13	Pass
			846.6	2.43	<=13	Pass
	HSDPA	Subtest 1	826.4	5.47	<=13	Pass
			836.6	5.44	<=13	Pass
			846.6	5.51	<=13	Pass
	HSUPA	Subtest 1	826.4	5.52	<=13	Pass
			836.6	5.43	<=13	Pass
			846.6	5.53	<=13	Pass

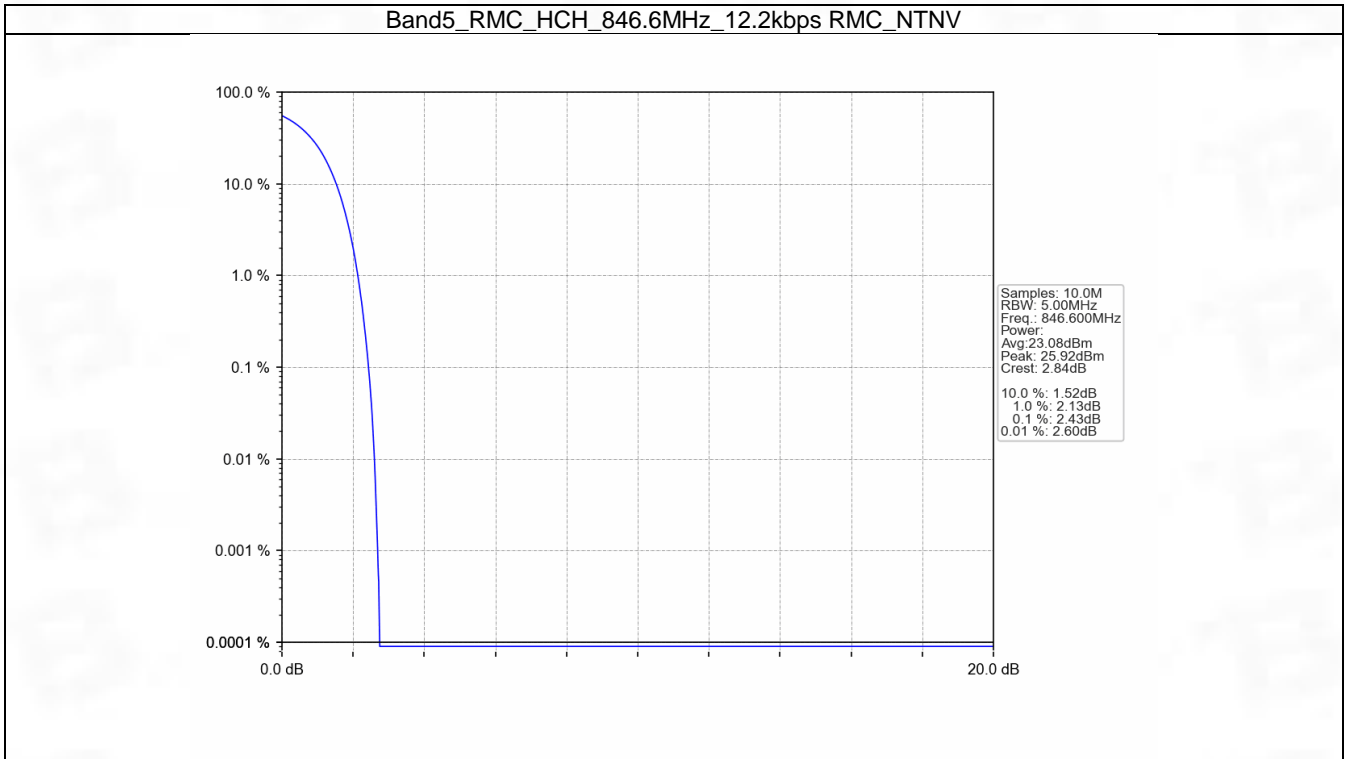
#### 5.1.2 Test Graph



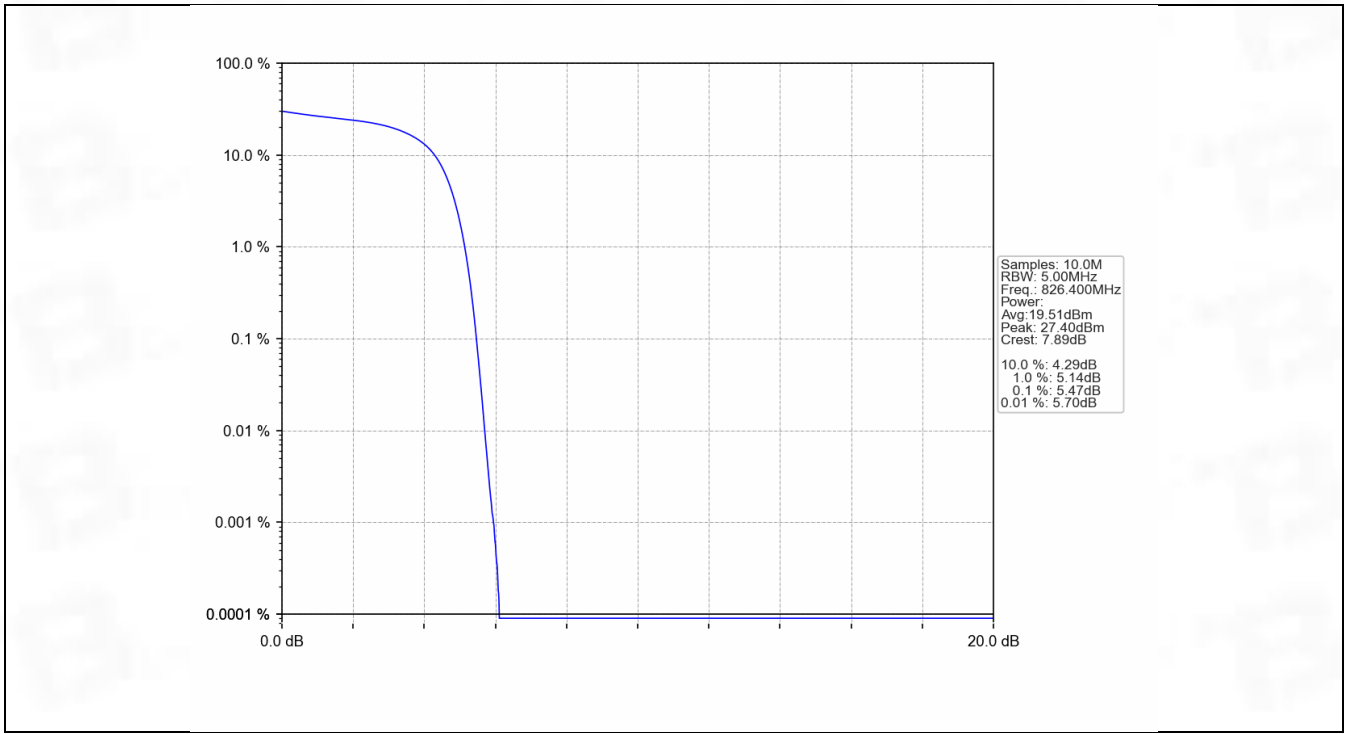




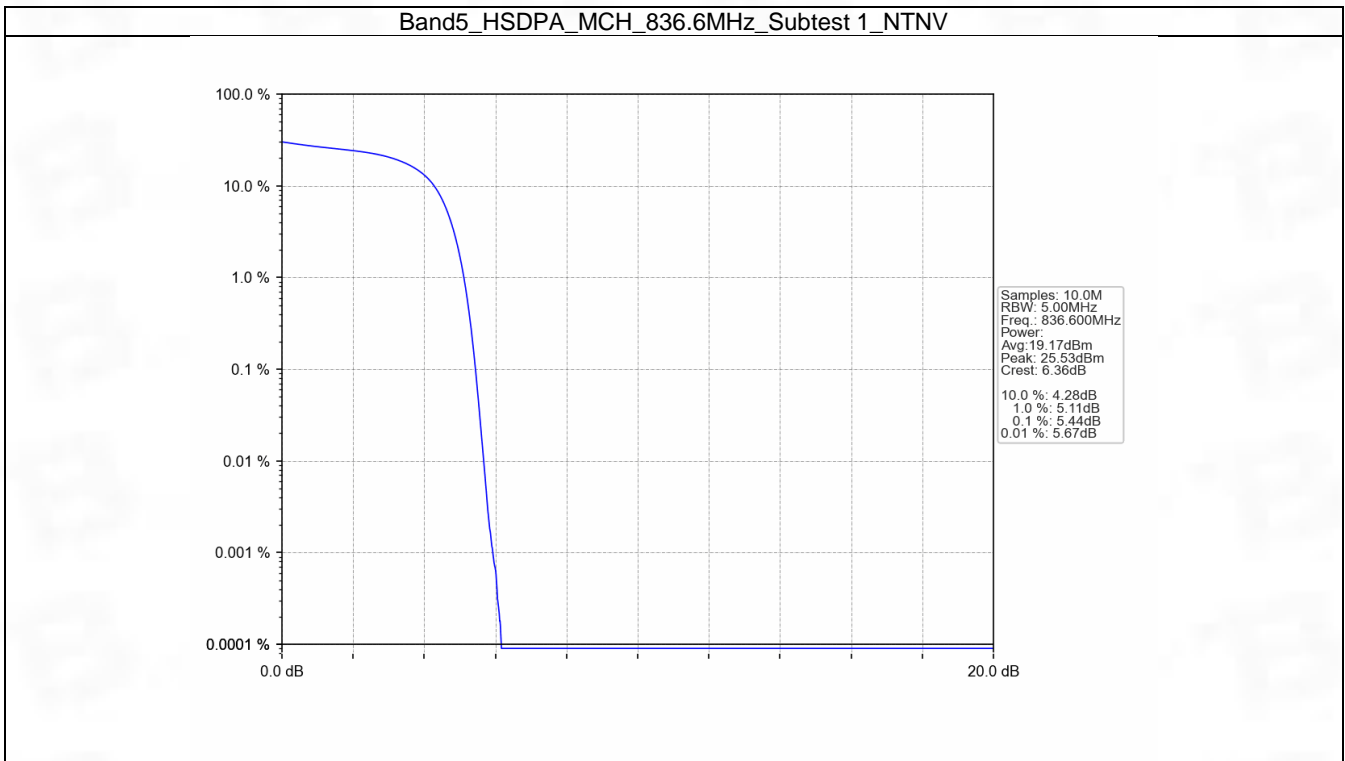
Band5\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



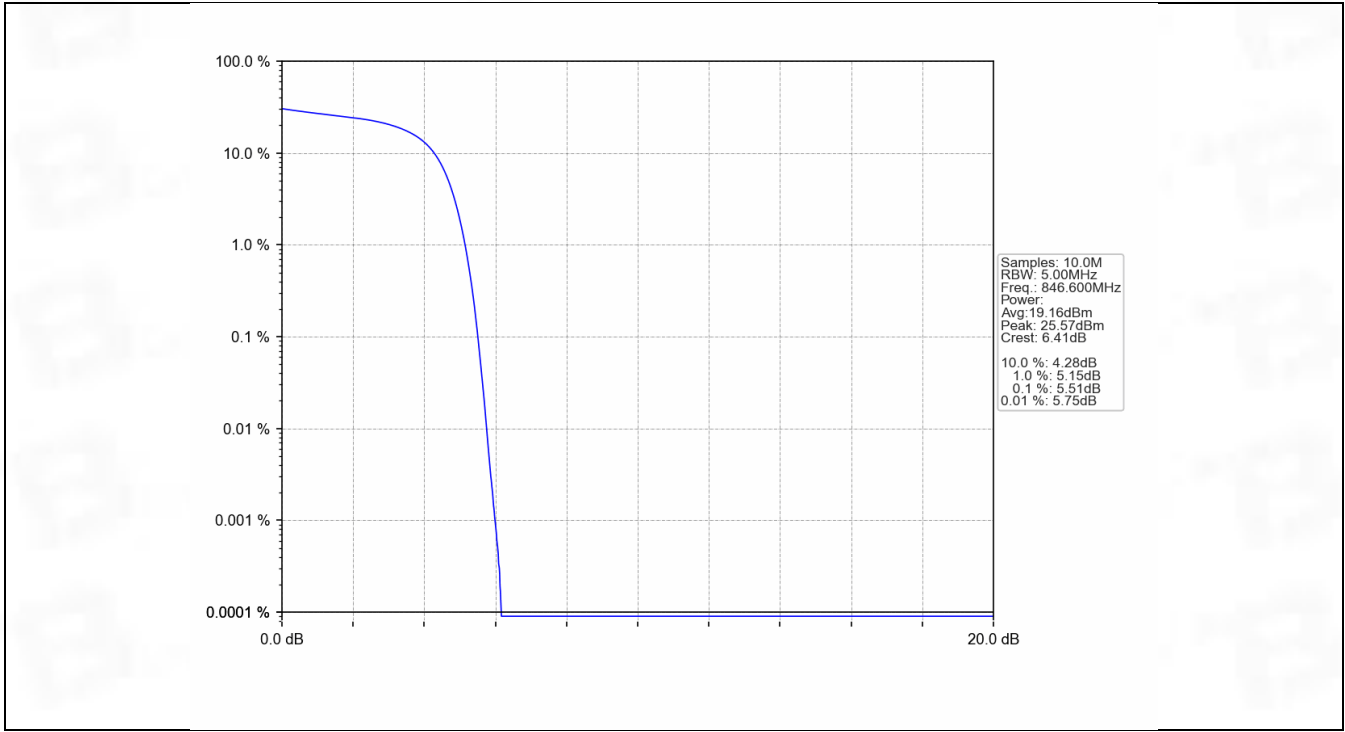
Band5\_HSDPA\_LCH\_826.4MHz\_Subtest 1\_NTNV



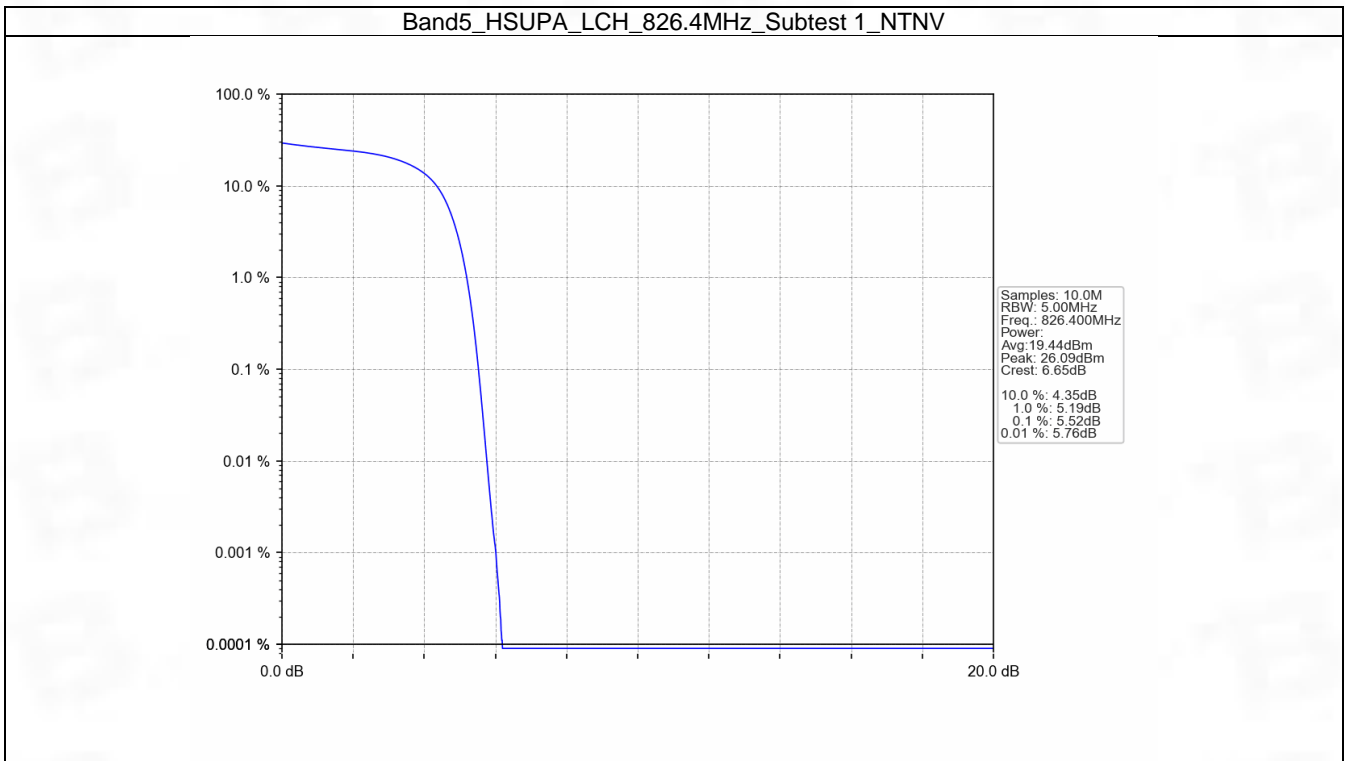
Band5\_HSDPA\_MCH\_836.6MHz\_Subtest 1\_NTNV



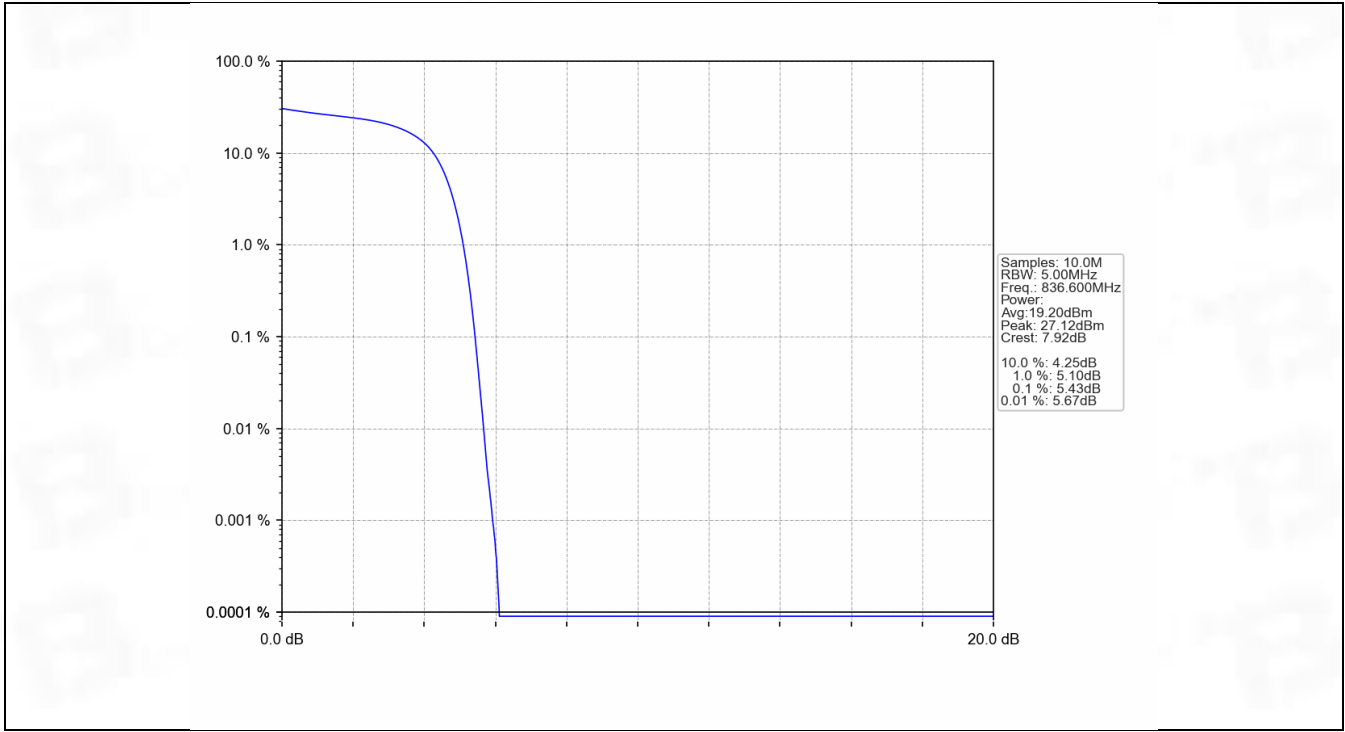
Band5\_HSDPA\_HCH\_846.6MHz\_Subtest 1\_NTNV



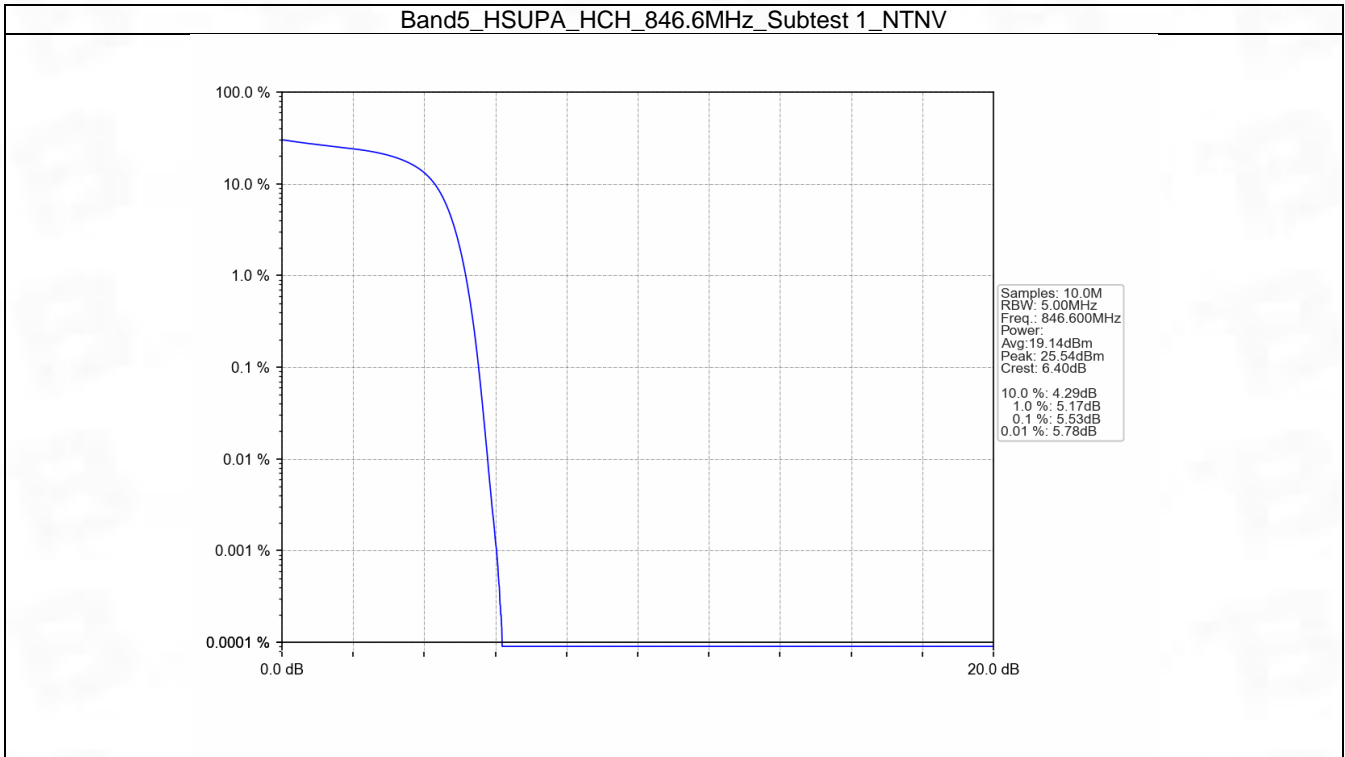
Band5\_HSUPA\_LCH\_826.4MHz\_Subtest 1\_NTNV



Band5\_HSUPA\_MCH\_836.6MHz\_Subtest 1\_NTNV



Band5\_HSUPA\_HCH\_846.6MHz\_Subtest 1\_NTNV



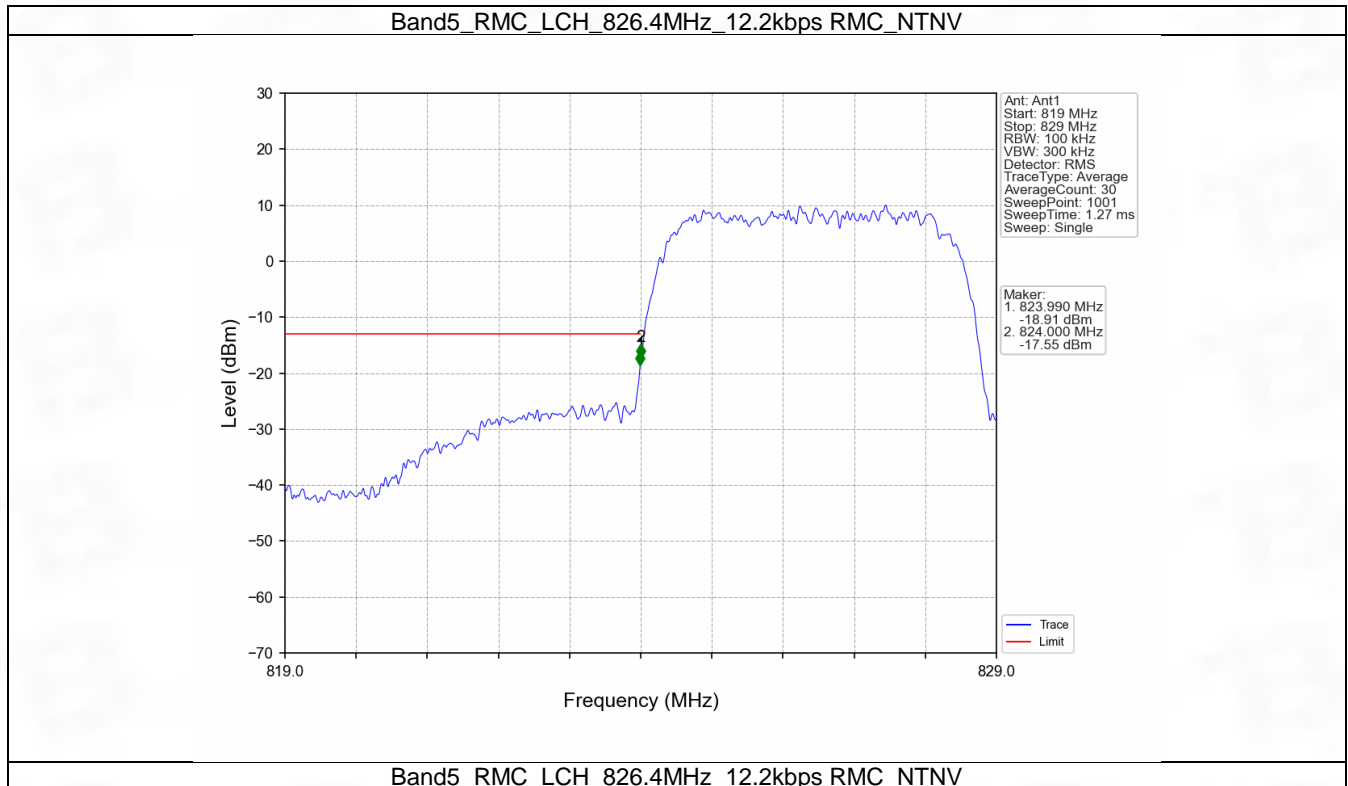
## 6. Spurious Emission

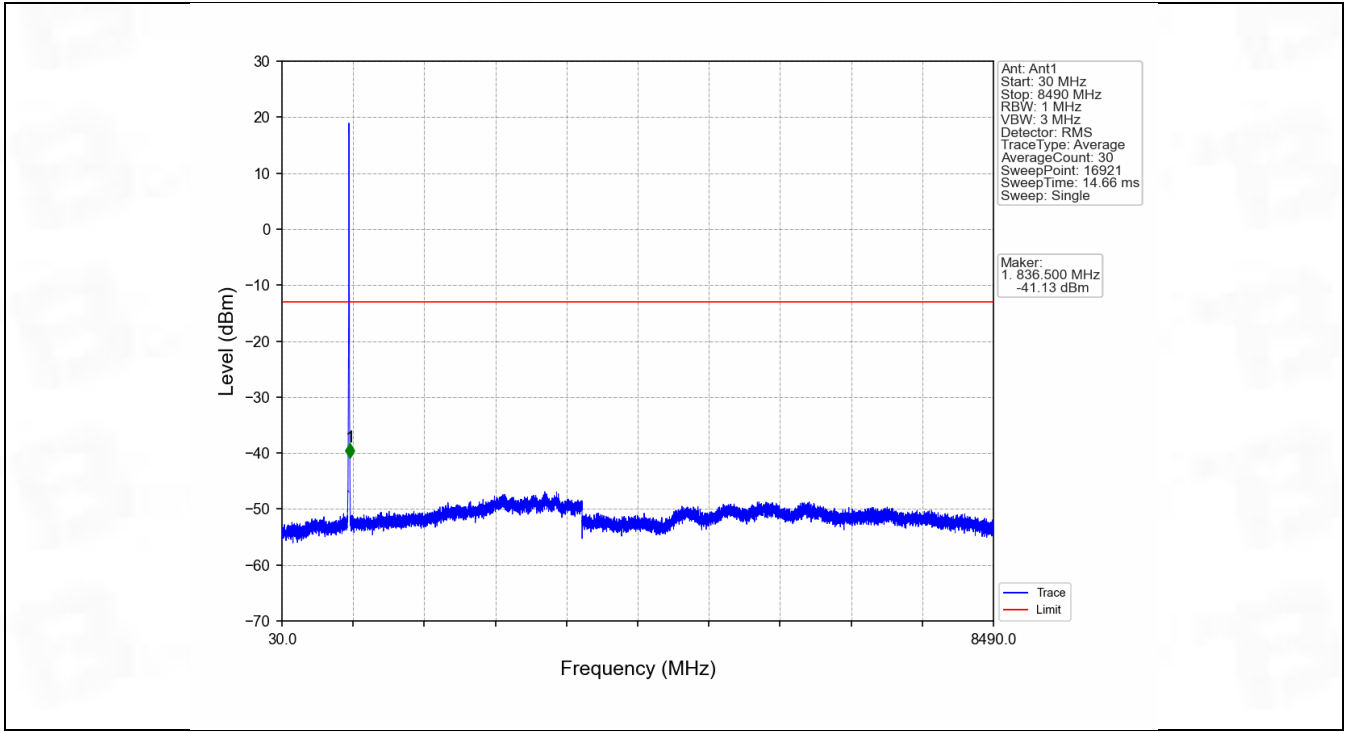
### 6.1 Band5

#### 6.1.1 Test Result

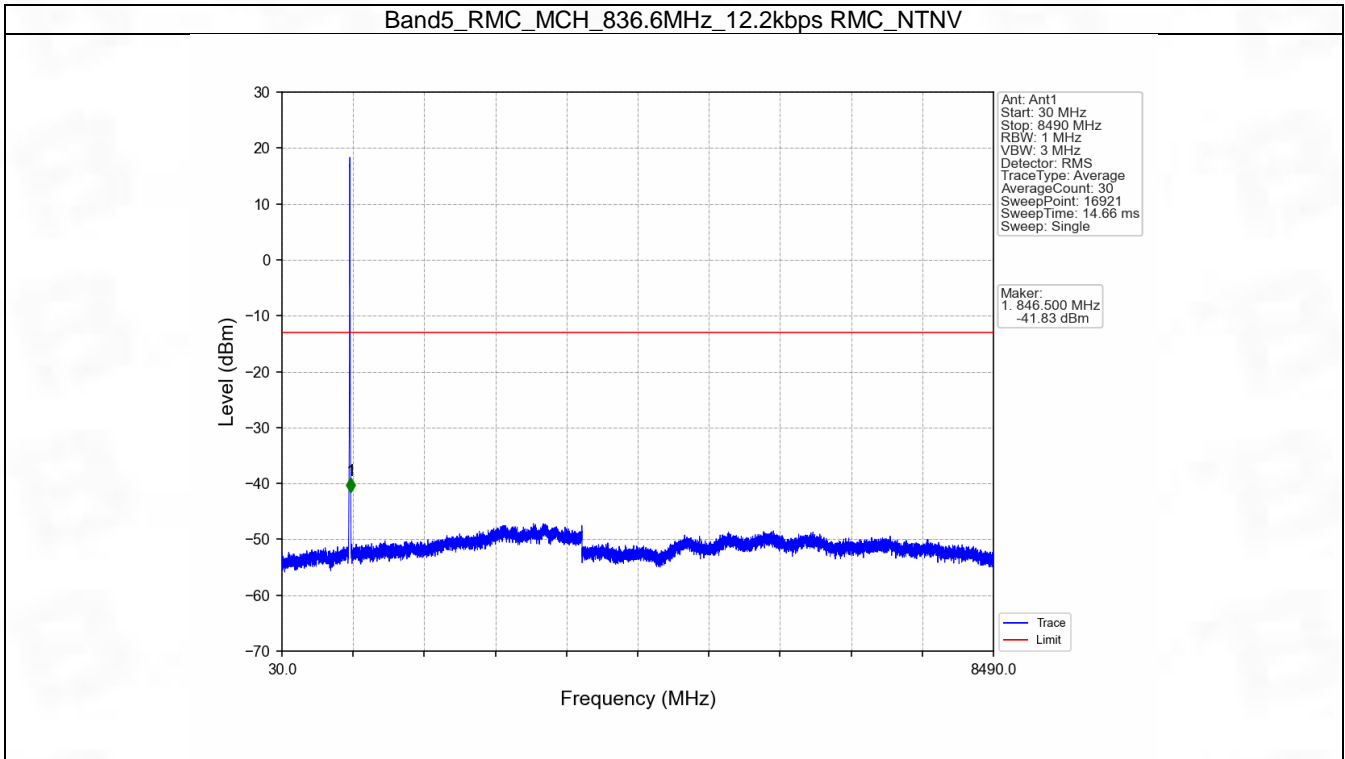
Band: 5						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass

#### 6.1.2 Test Graph

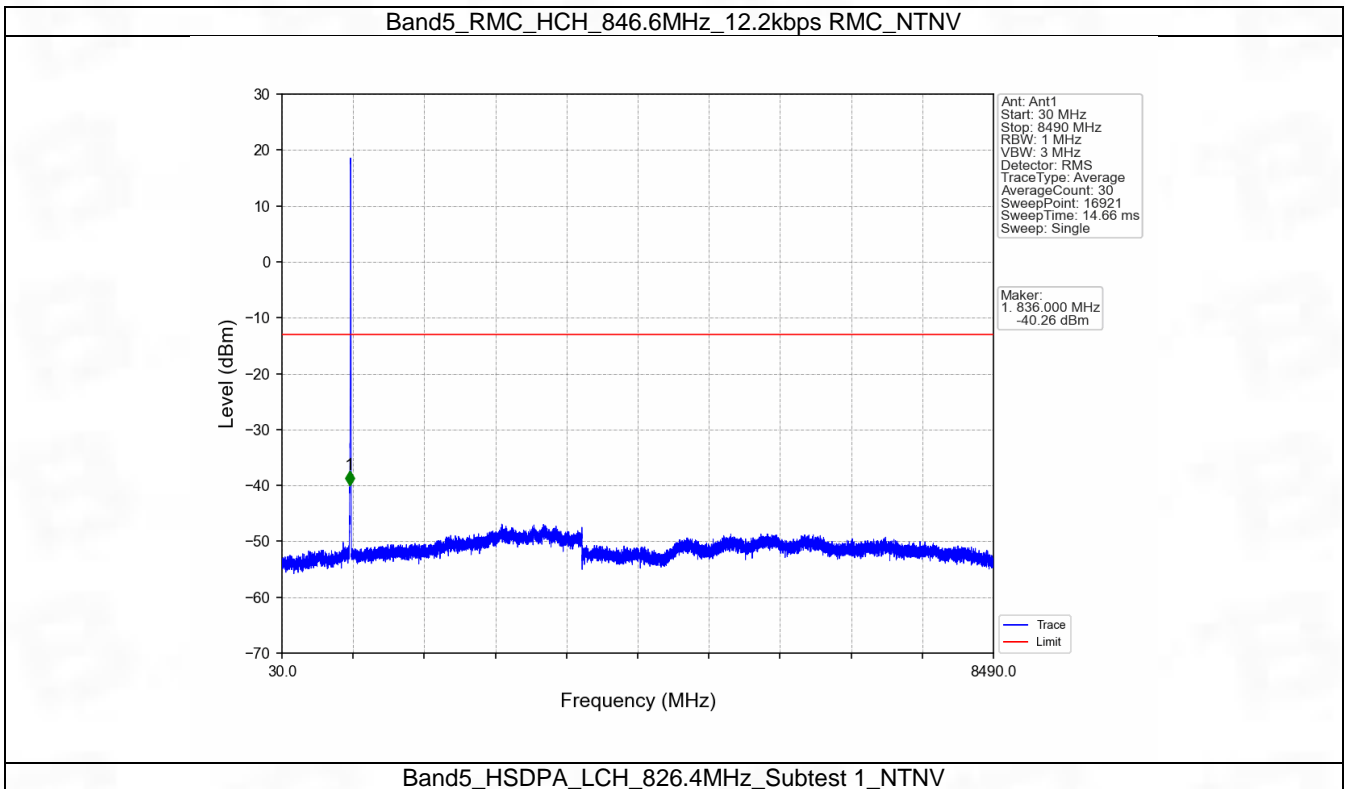
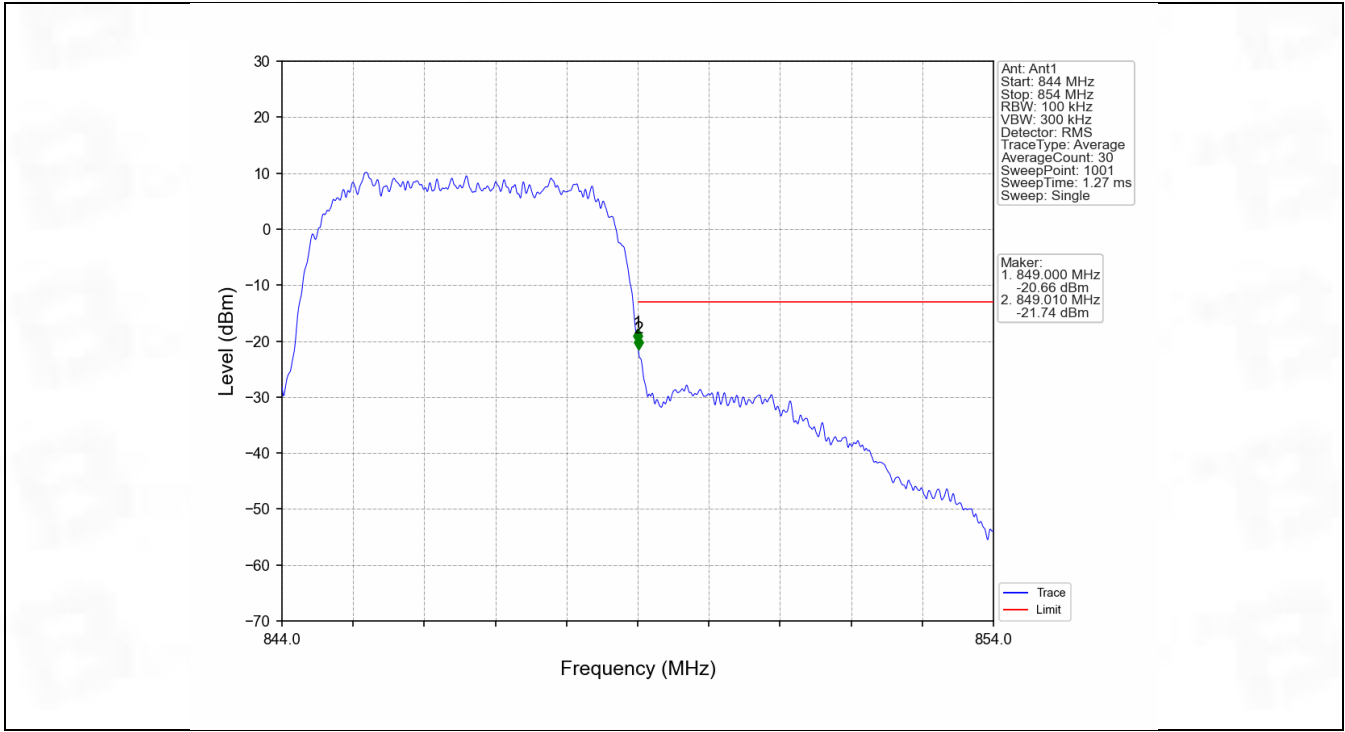


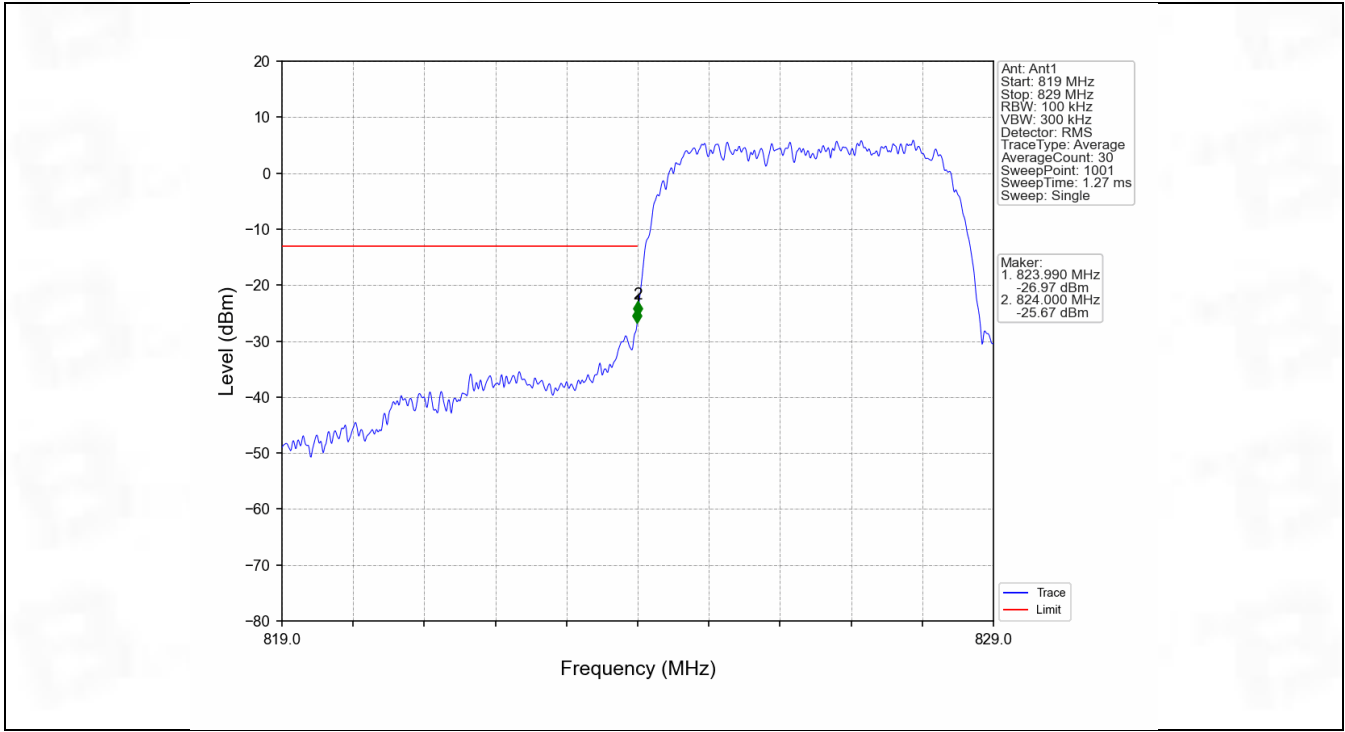


Band5\_RMC\_MCH\_836.6MHz\_12.2kbps RMC\_NTNV

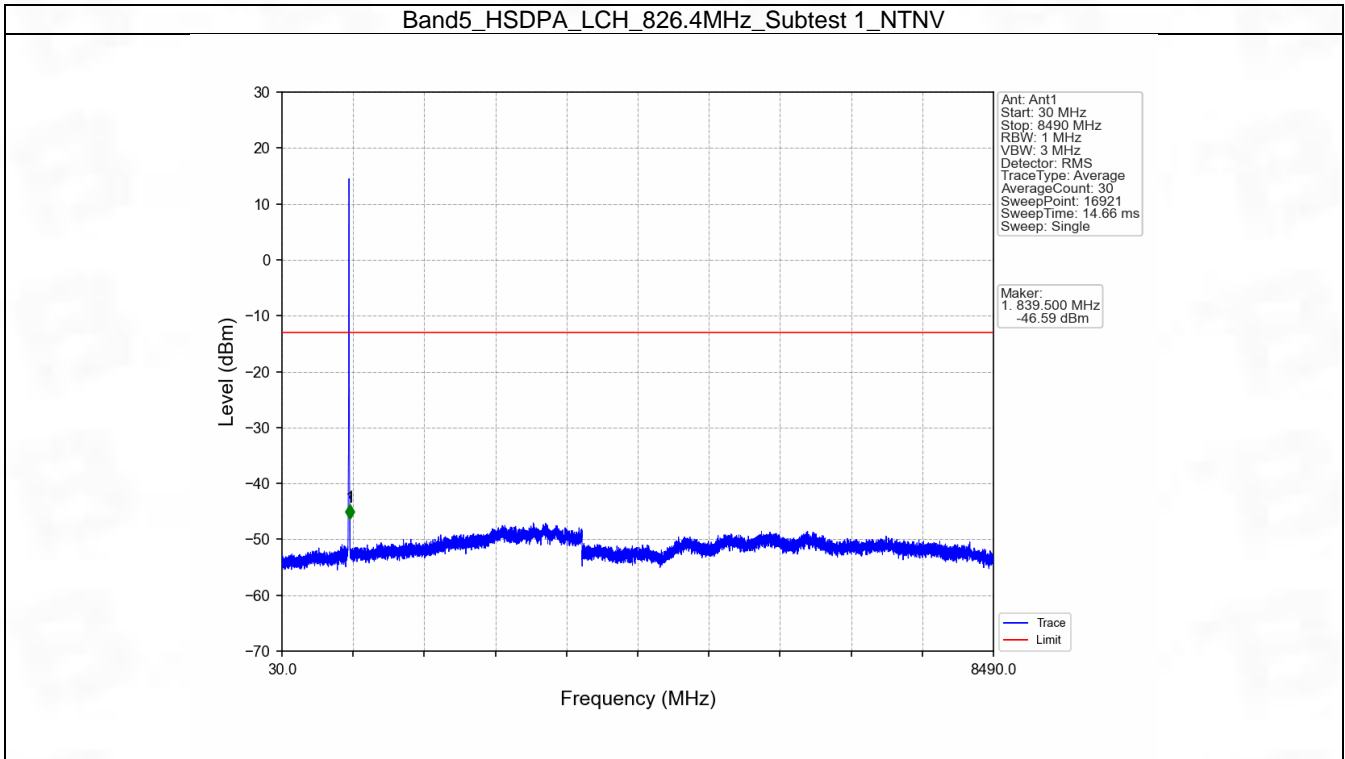


Band5\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



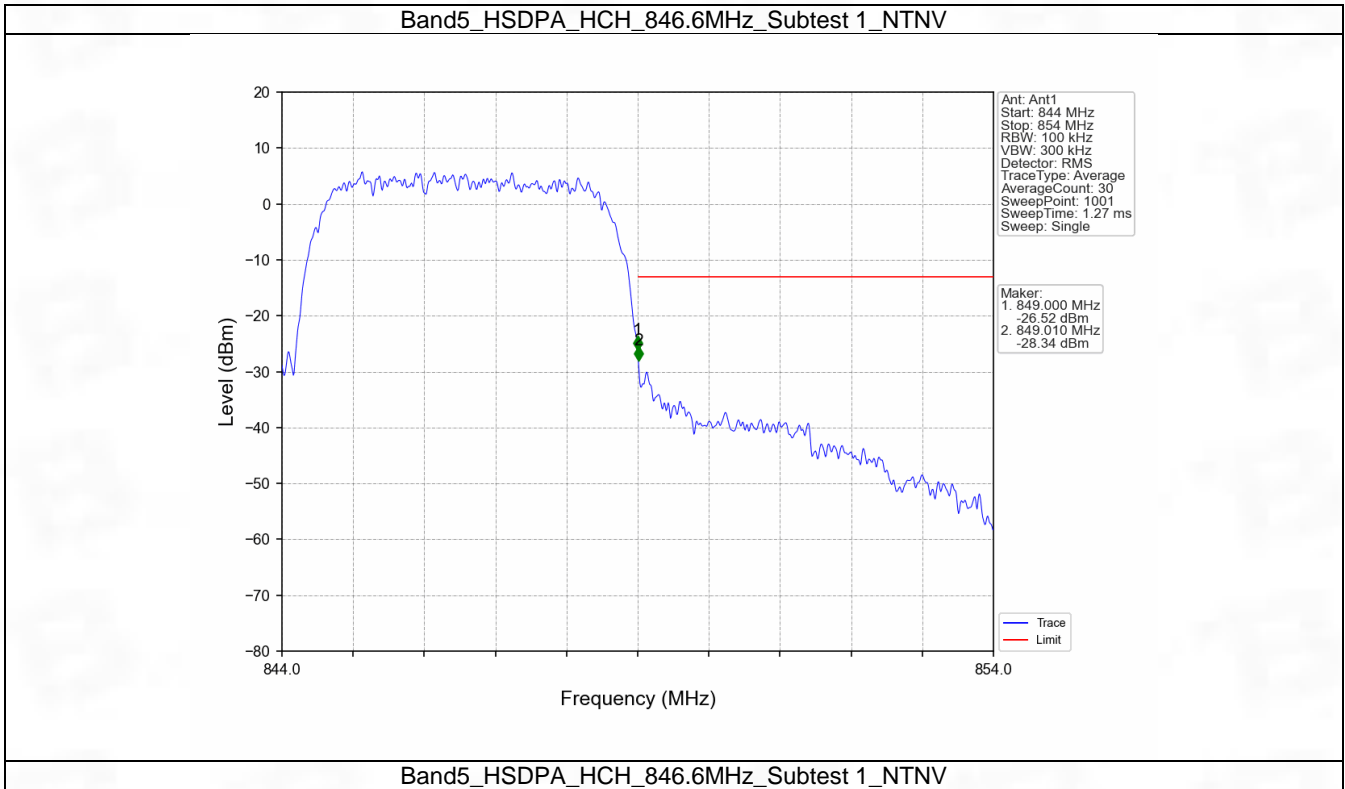
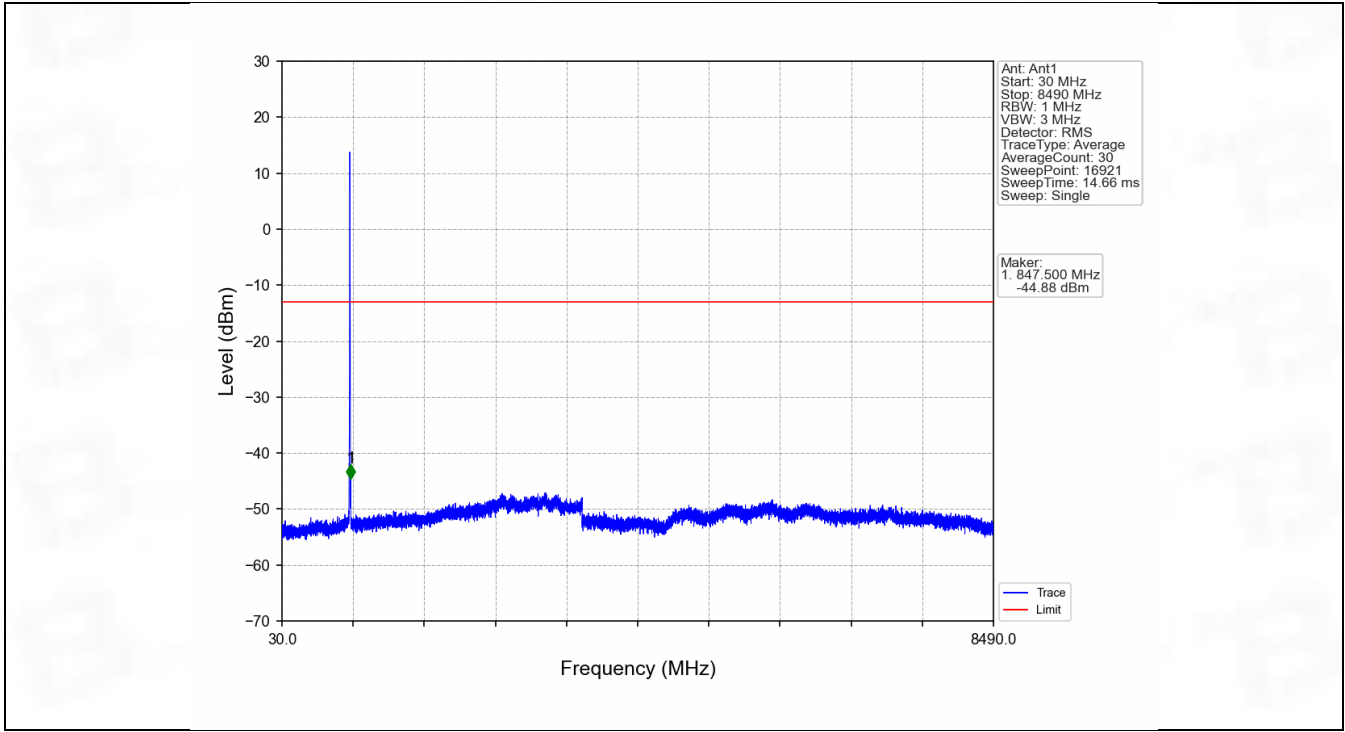


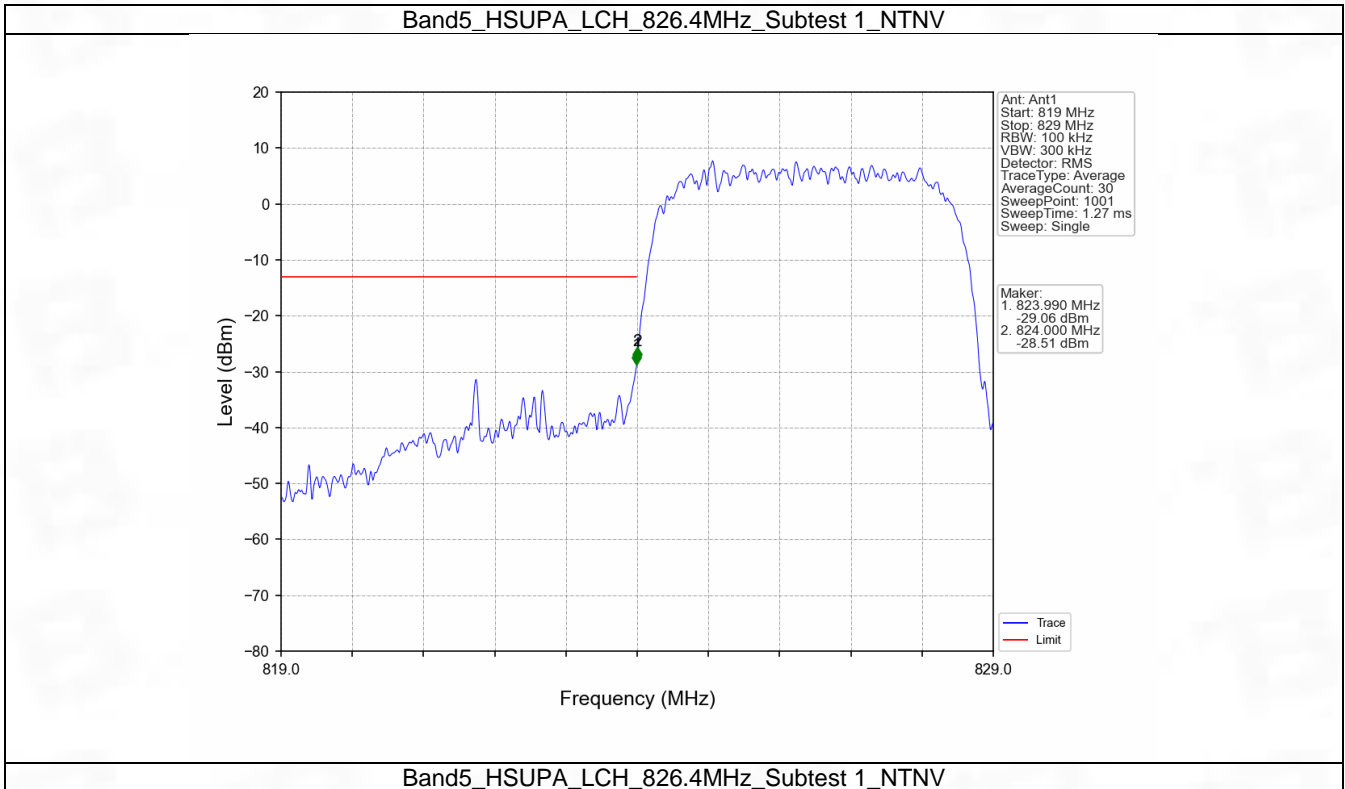
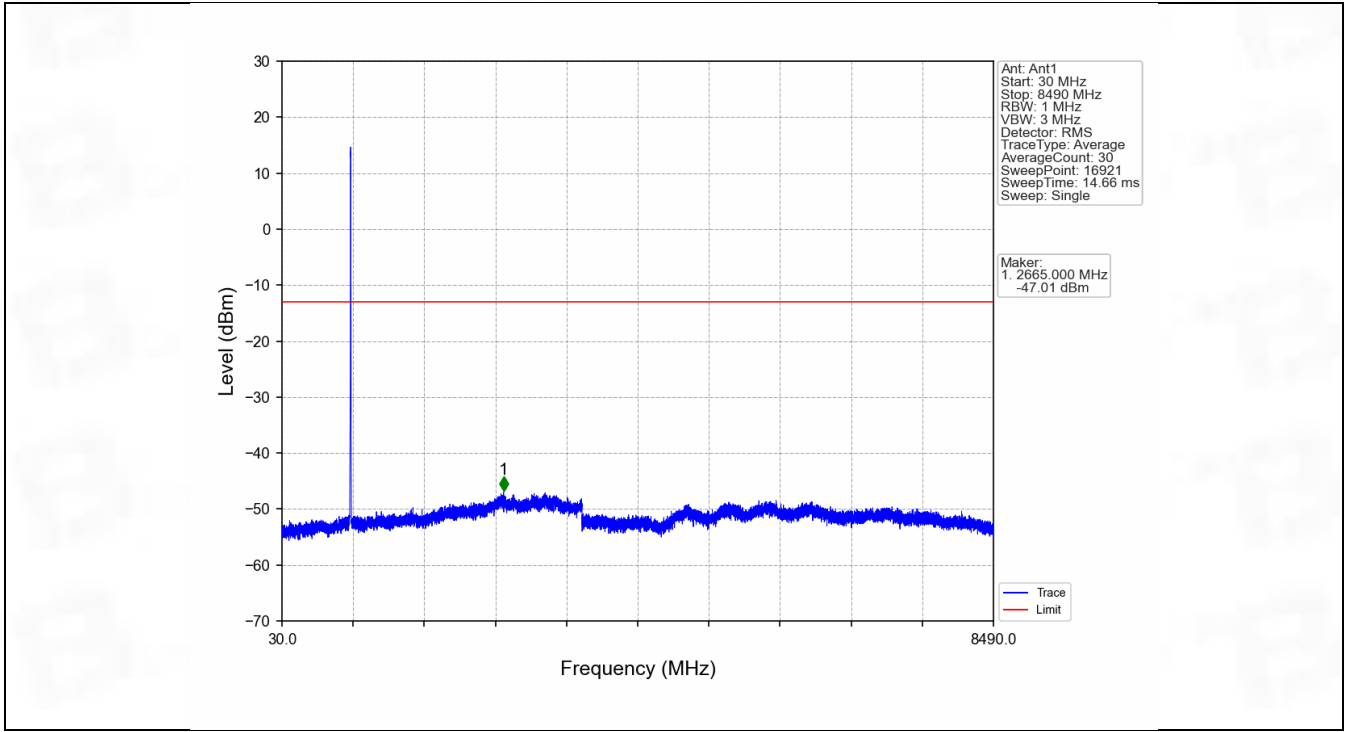
Band5\_HSDPA\_LCH\_826.4MHz\_Subtest 1\_NTNV

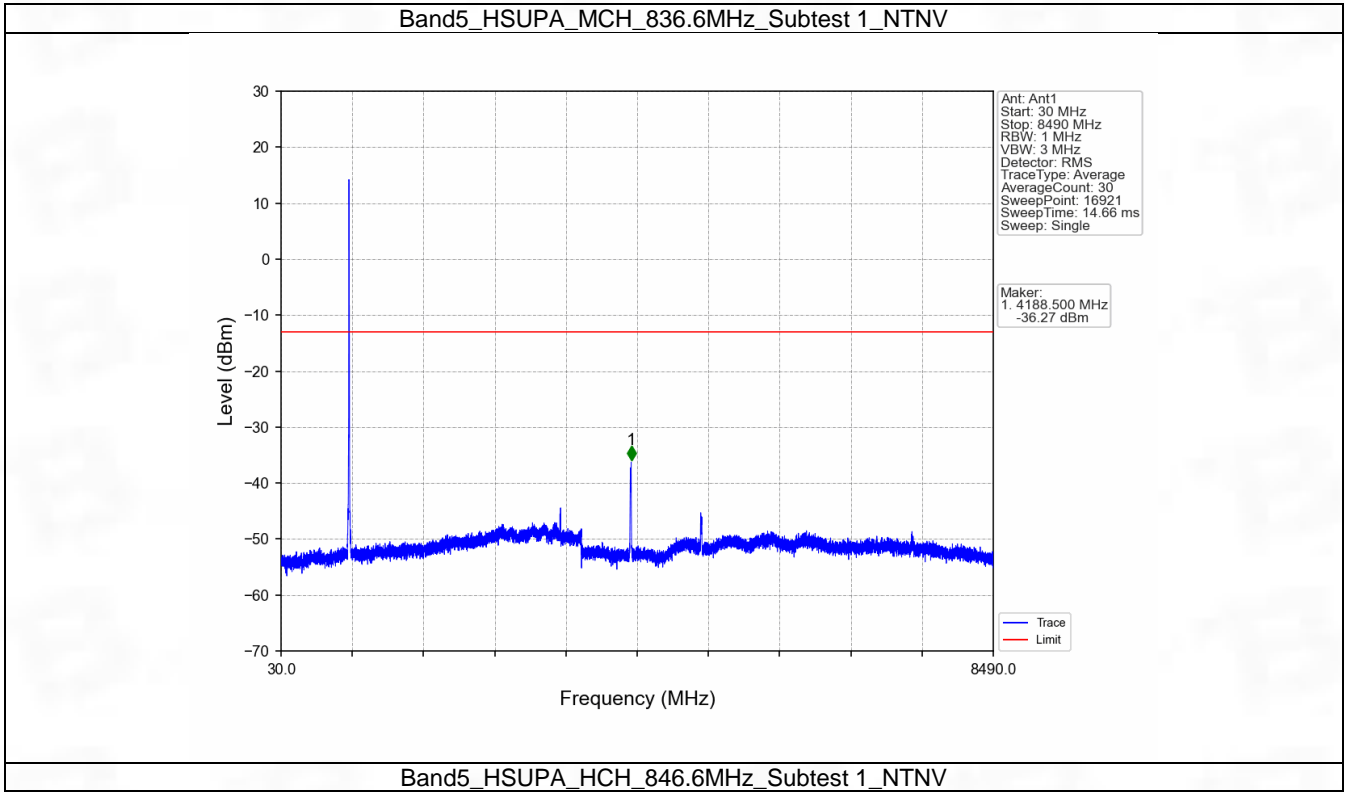
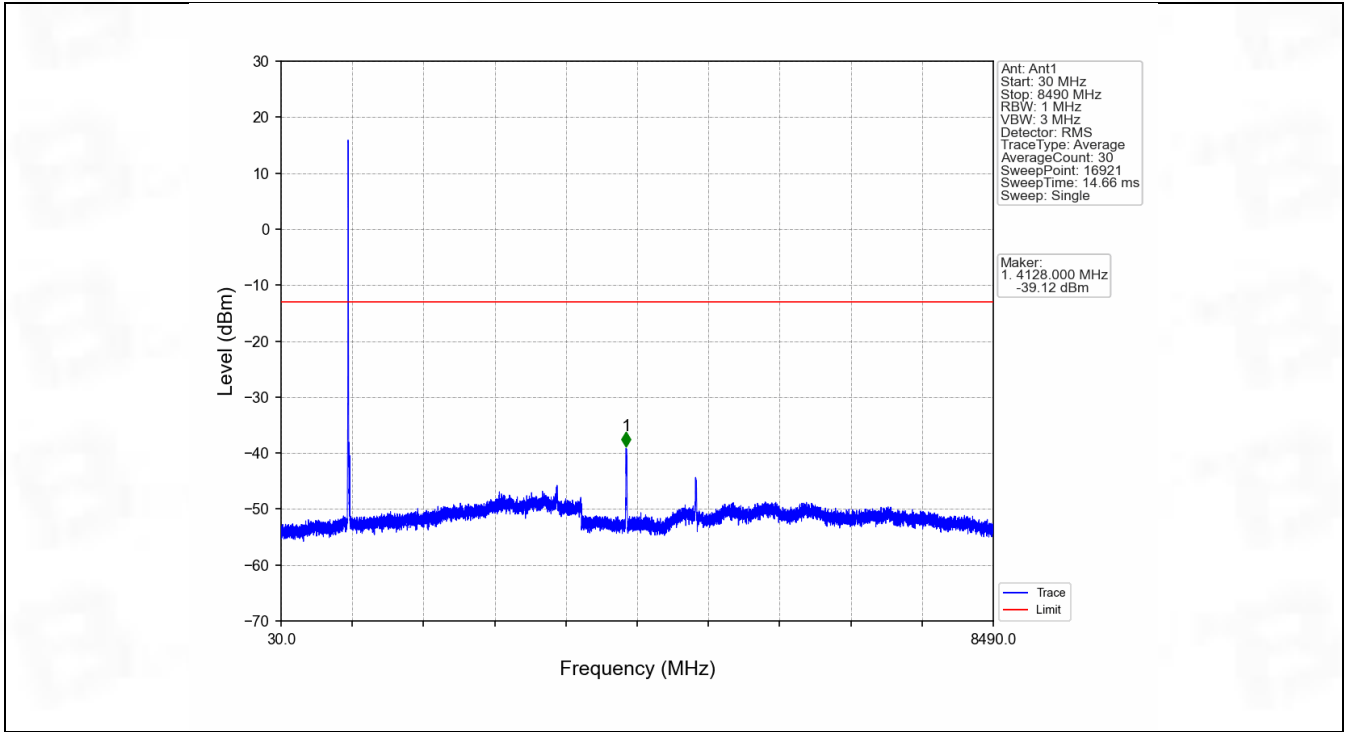


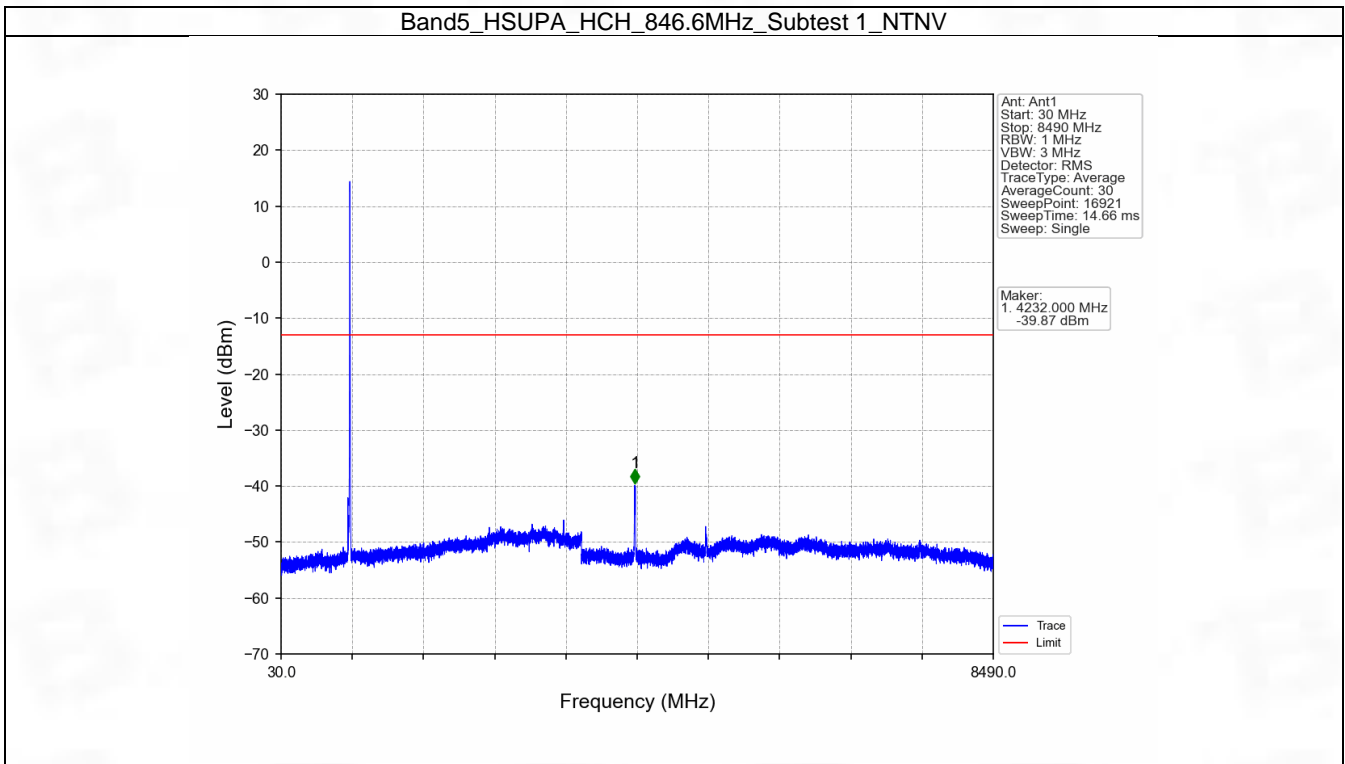
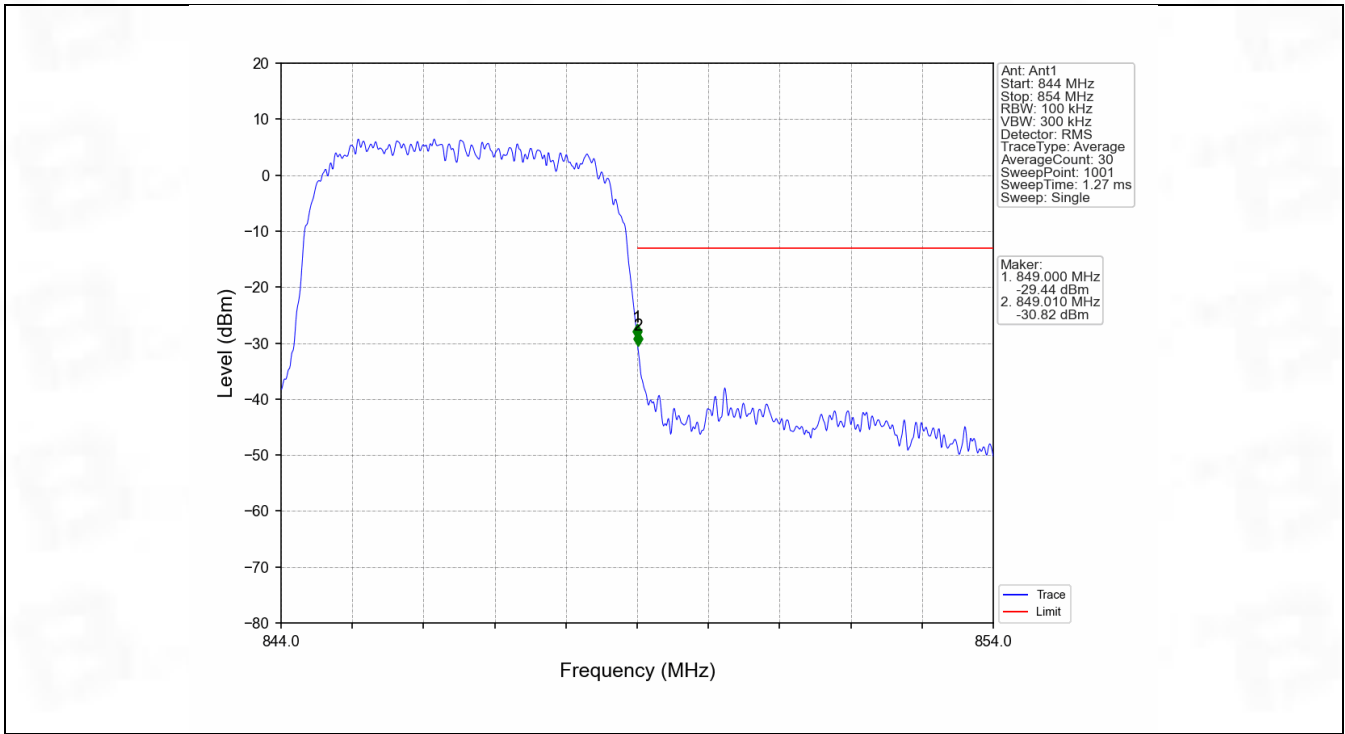
Band5\_HSDPA\_MCH\_836.6MHz\_Subtest 1\_NTNV











## 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)
5	3.84	826.4	846.6	0.1230	0.0070	ppm	4M18F9W	22H	20.90

### 7.2 Form731\_ERP

#### 7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
5	3.84	826.4	846.6	0.0838	0.0070	ppm	4M18F9W	22H	19.23