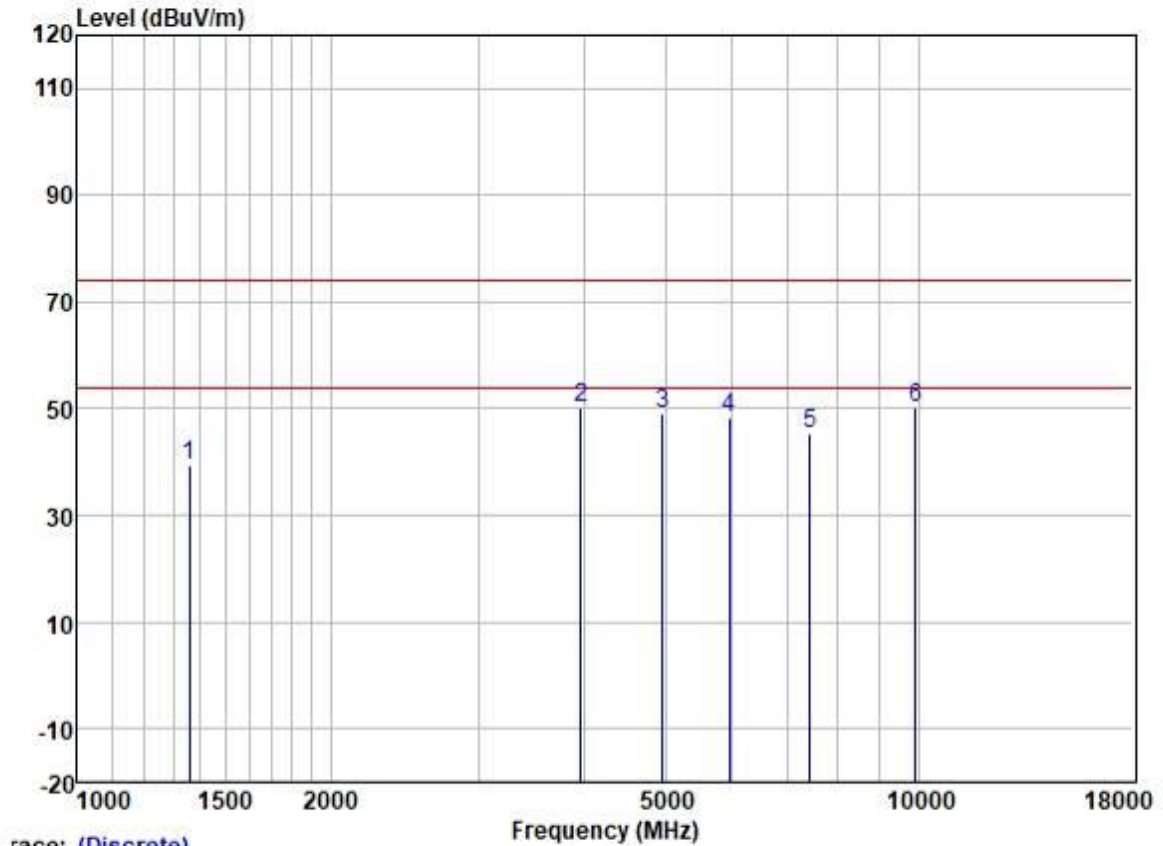


Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: High



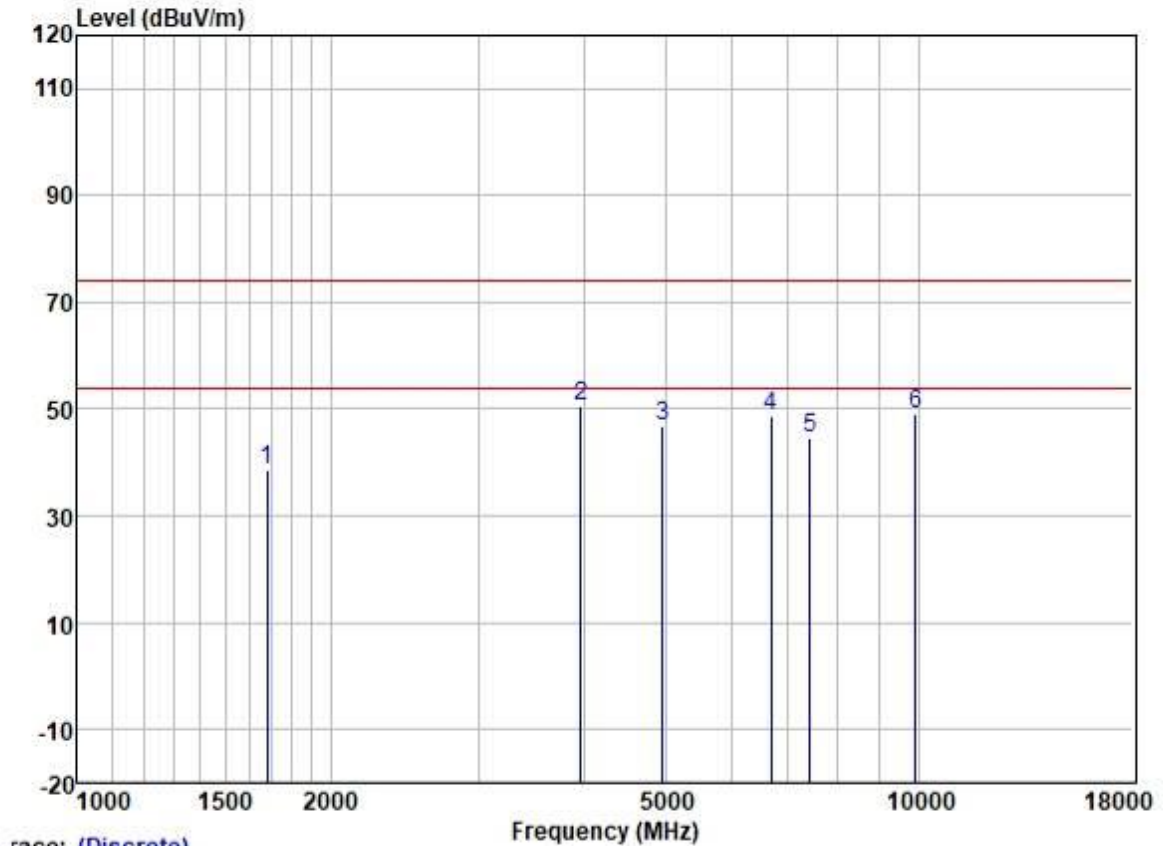
Trace: (Discrete)

	Read Freq	Antenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1358.498	49.86	25.33	2.60	38.27	39.52	74.00	-34.48	VERTICAL	peak
2	3969.767	52.76	29.77	4.60	36.81	50.32	74.00	-23.68	VERTICAL	peak
3	4960.000	48.70	31.65	5.65	36.84	49.16	74.00	-24.84	VERTICAL	peak
4	5949.811	46.86	32.36	6.05	36.90	48.37	74.00	-25.63	VERTICAL	peak
5	7440.000	40.19	36.27	6.22	37.47	45.21	74.00	-28.79	VERTICAL	peak
6	9920.000	41.99	38.65	6.96	37.40	50.20	74.00	-23.80	VERTICAL	peak



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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1682.477	48.08	25.68	2.80	37.91	38.65	74.00	-35.35 HORIZONTAL peak
2	3969.767	53.10	29.77	4.60	36.81	50.66	74.00	-23.34 HORIZONTAL peak
3	4960.000	46.28	31.65	5.65	36.84	46.74	74.00	-27.26 HORIZONTAL peak
4	6679.040	45.73	34.33	5.83	37.07	48.82	74.00	-25.18 HORIZONTAL peak
5	7440.000	39.48	36.27	6.22	37.47	44.50	74.00	-29.50 HORIZONTAL peak
6	9920.000	41.01	38.65	6.96	37.40	49.22	74.00	-24.78 HORIZONTAL peak



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photos for GZCR210802077202



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## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2108020772AT



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## 10 Appendix

### 1. Bandwidth

#### 1.1 20dB BW

##### 1.1.1 Test Result

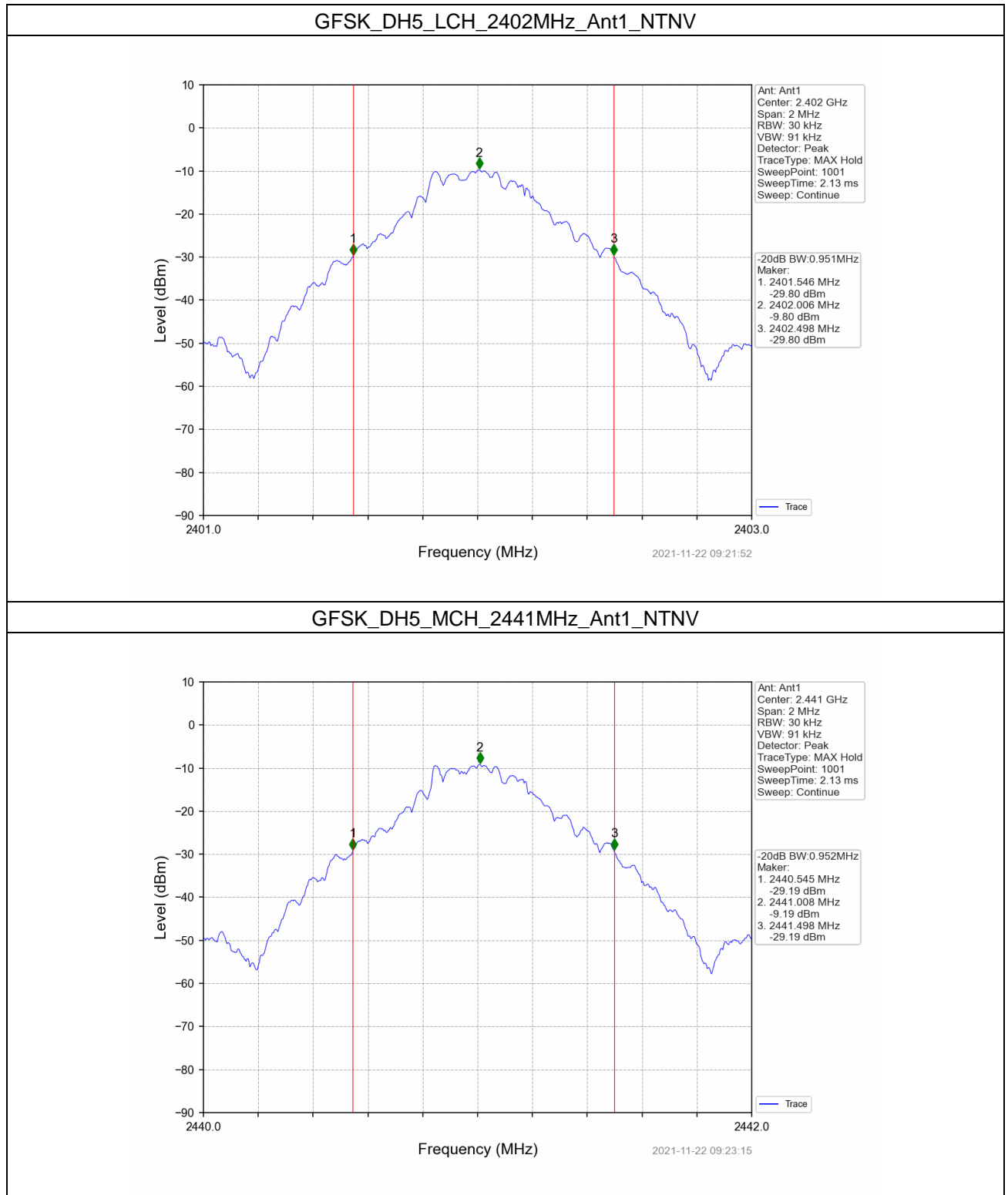
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.951	Pass
		2441	DH5	1	0.952	Pass
		2480	DH5	1	0.952	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.287	Pass
		2441	2DH5	1	1.286	Pass
		2480	2DH5	1	1.288	Pass
8DPSK	SISO	2402	3DH5	1	1.307	Pass
		2441	3DH5	1	1.308	Pass
		2480	3DH5	1	1.307	Pass



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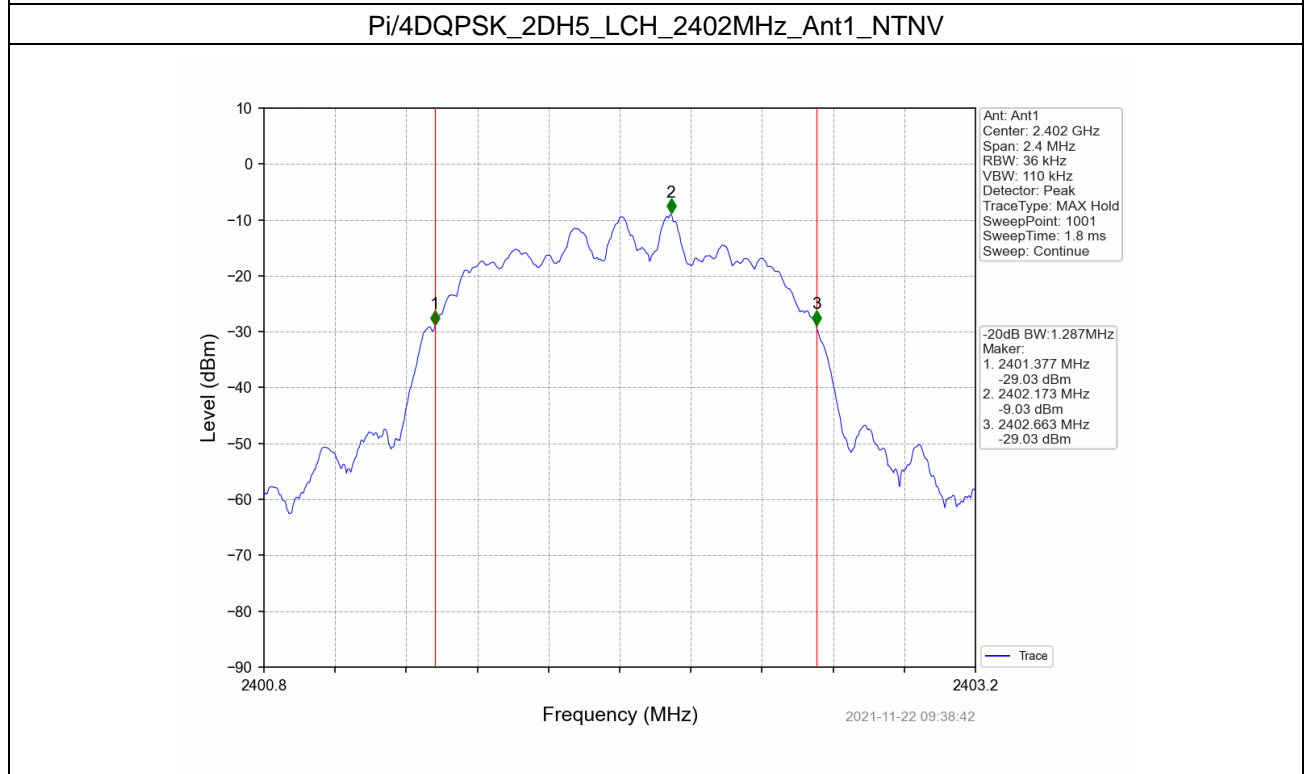
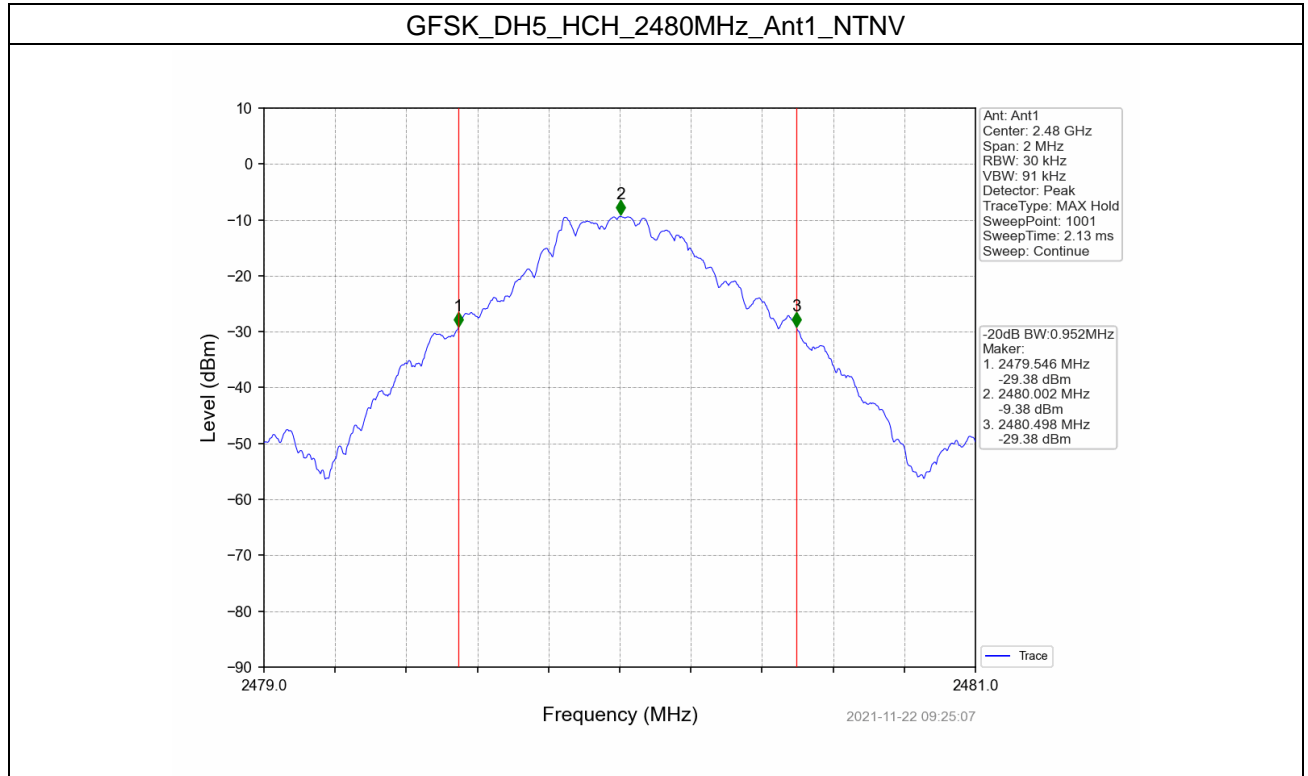
### 1.1.2 Test Graph



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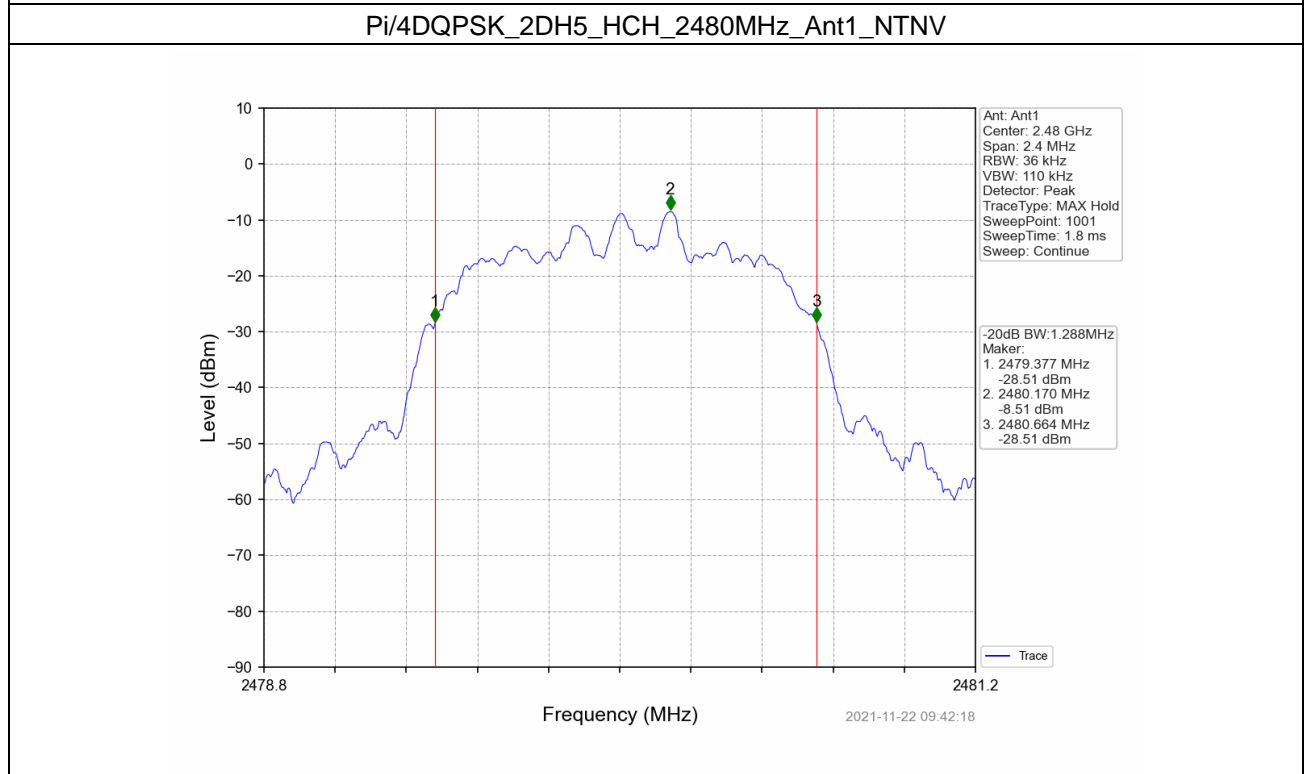
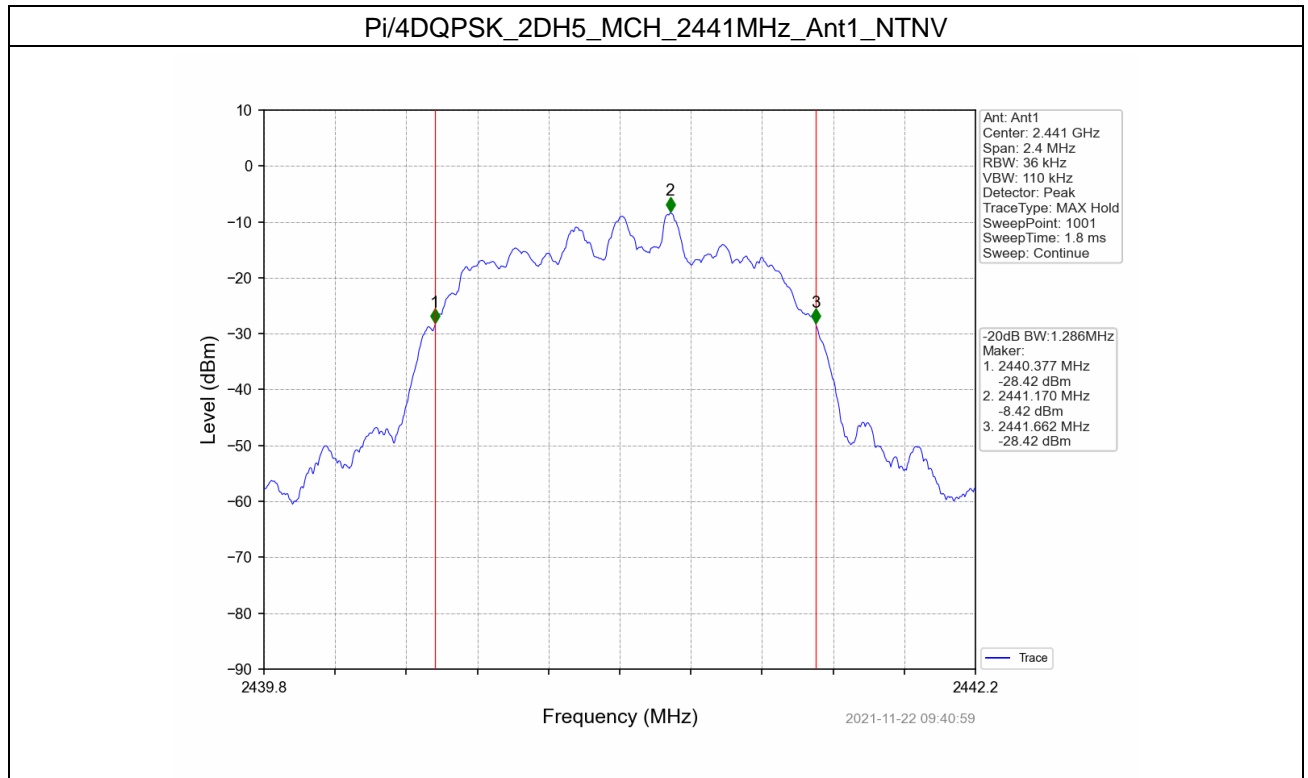
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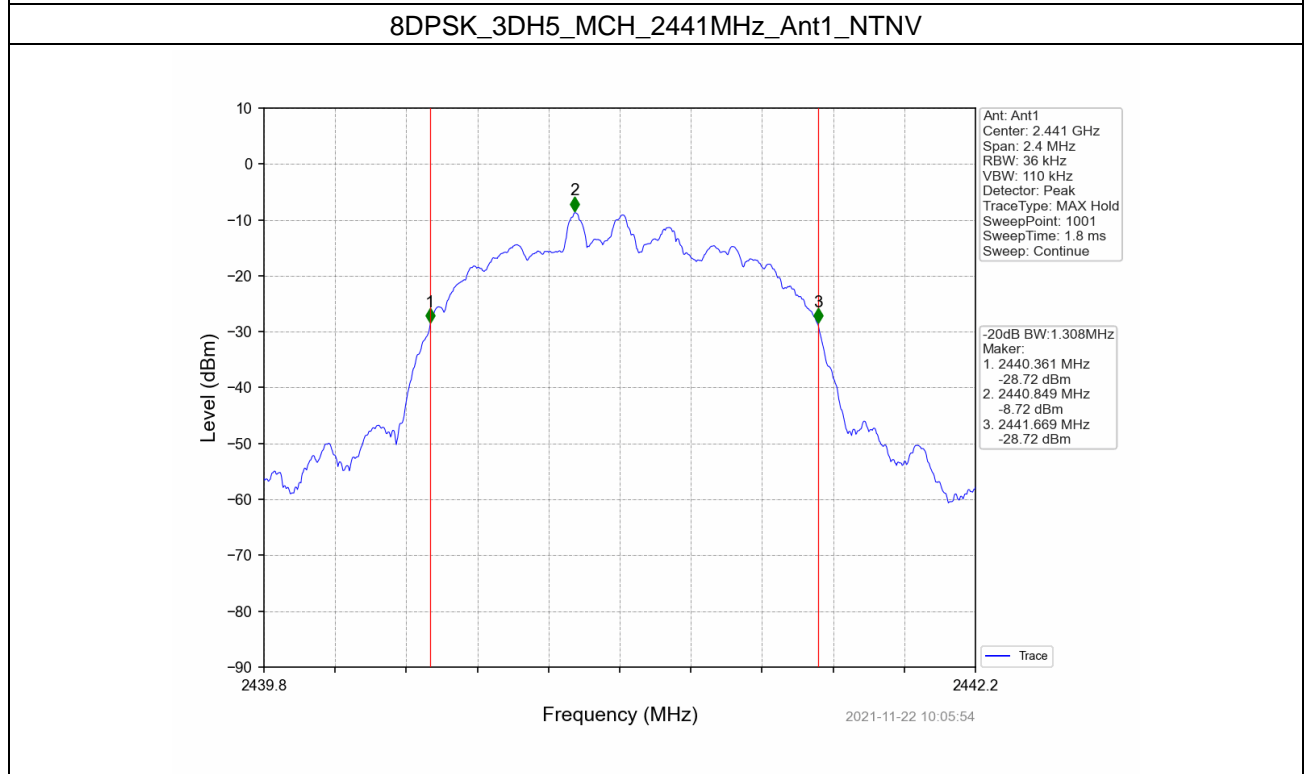
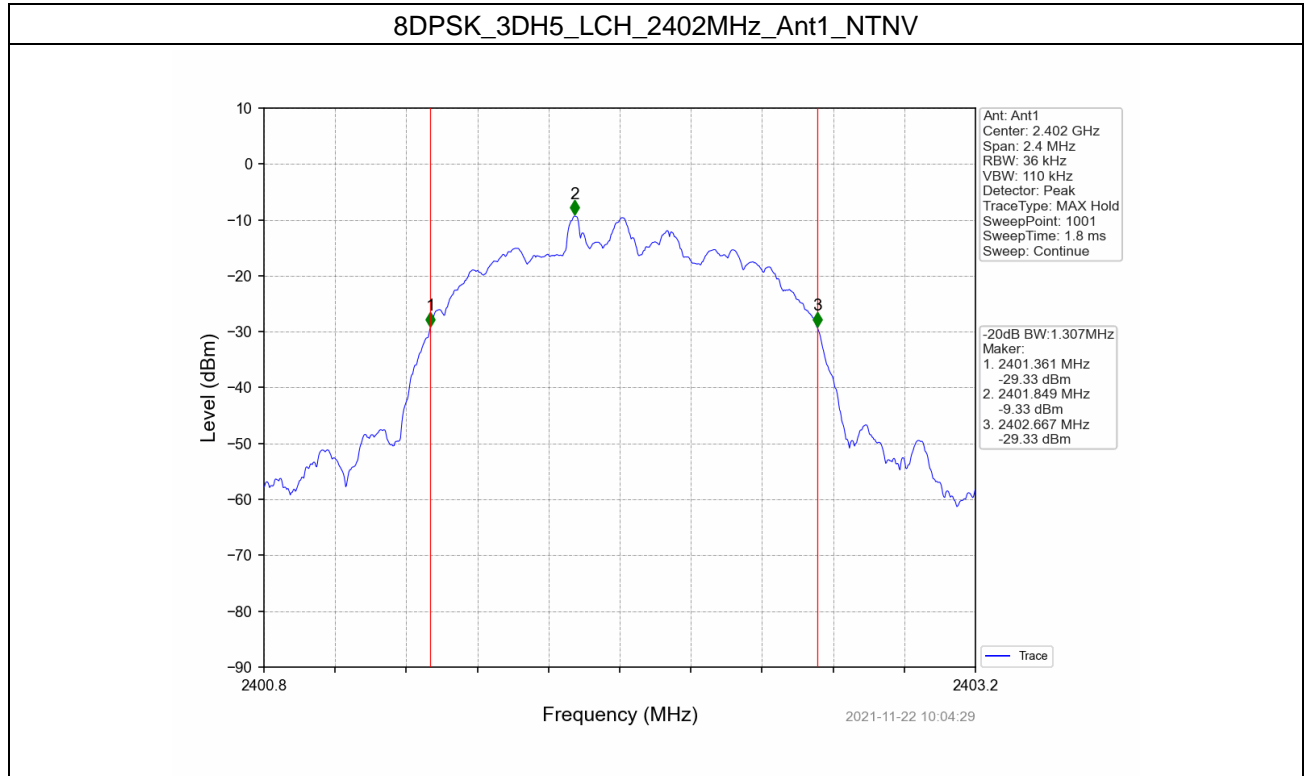
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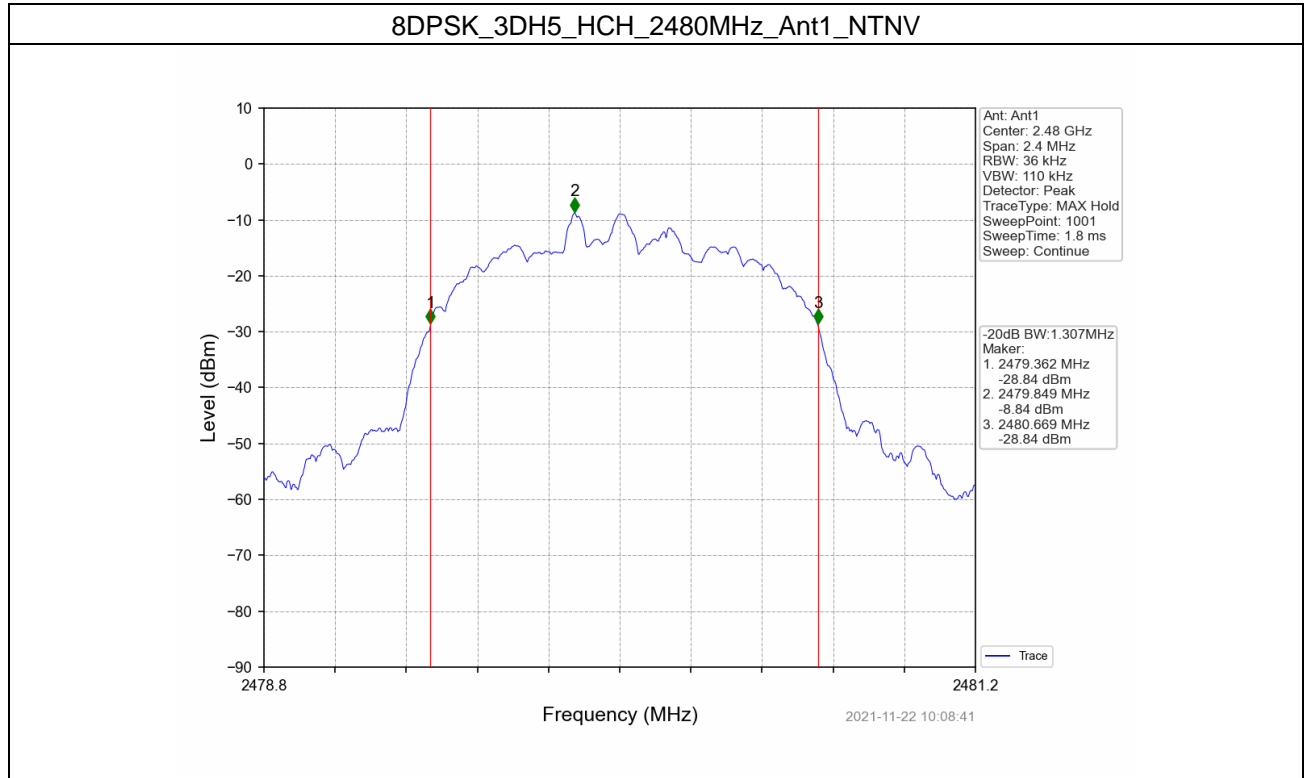
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## 2. Maximum Conducted Output Power

### 2.1 Power

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				Ant1	Limit	
GFSK	SISO	2402	DH5	-7.65	<=30	Pass
		2441	DH5	-7.03	<=30	Pass
		2480	DH5	-7.11	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-6.58	<=20.97	Pass
		2441	2DH5	-6.03	<=20.97	Pass
		2480	2DH5	-6.07	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-6.10	<=20.97	Pass
		2441	3DH5	-5.55	<=20.97	Pass
		2480	3DH5	-5.61	<=20.97	Pass

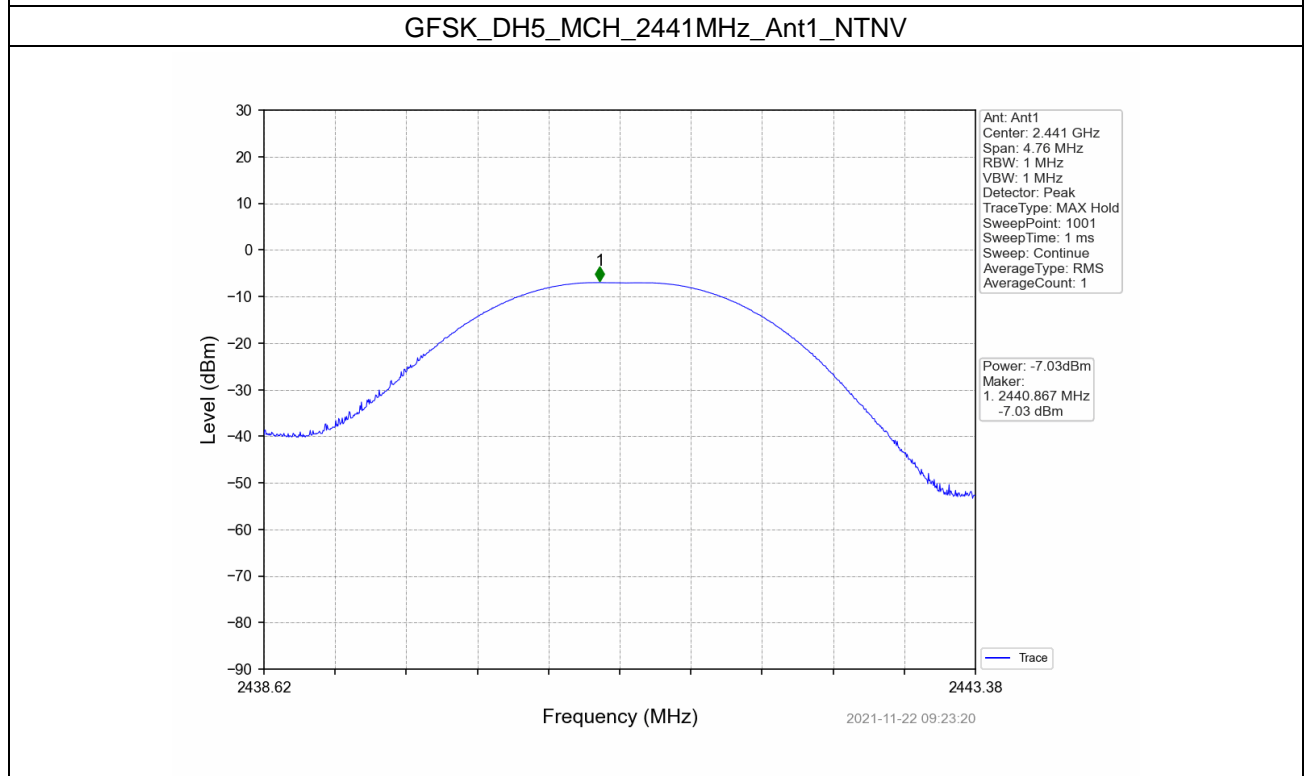
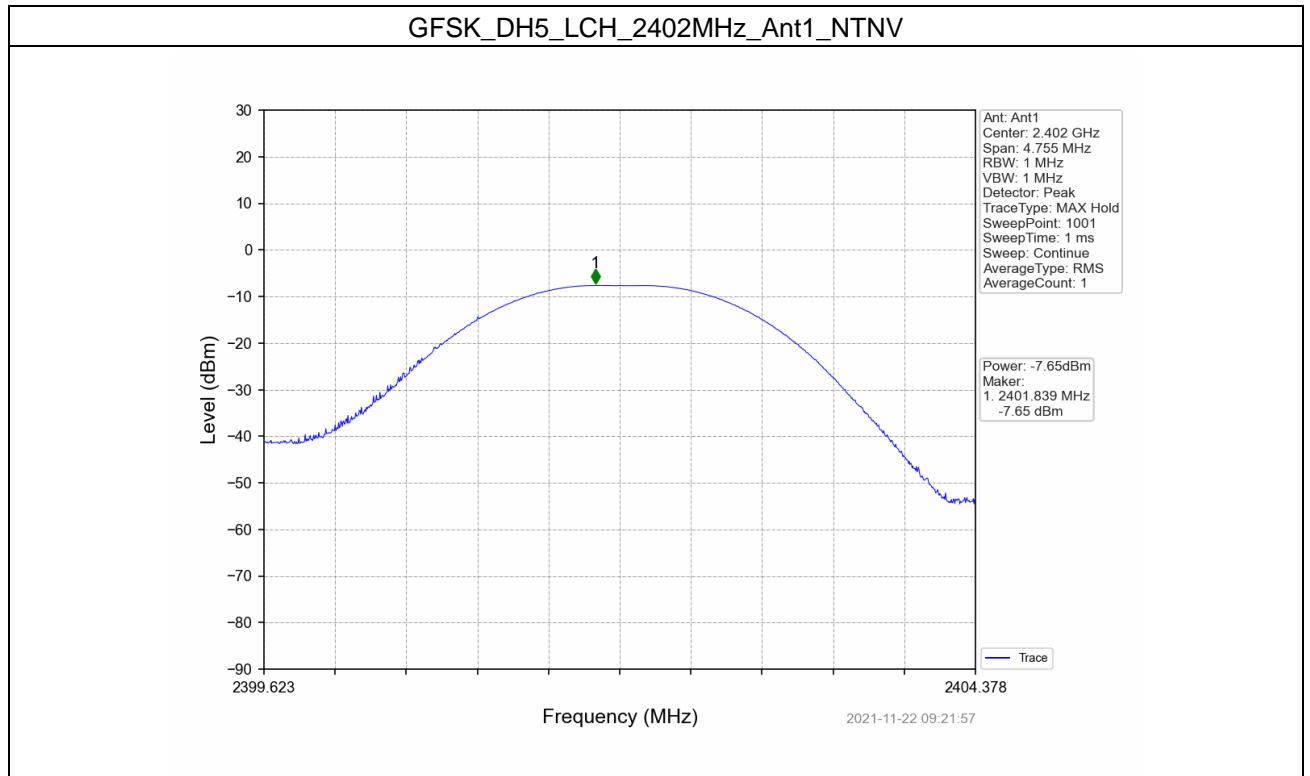
Note1: Antenna Gain: Ant1: 0.00dBi;



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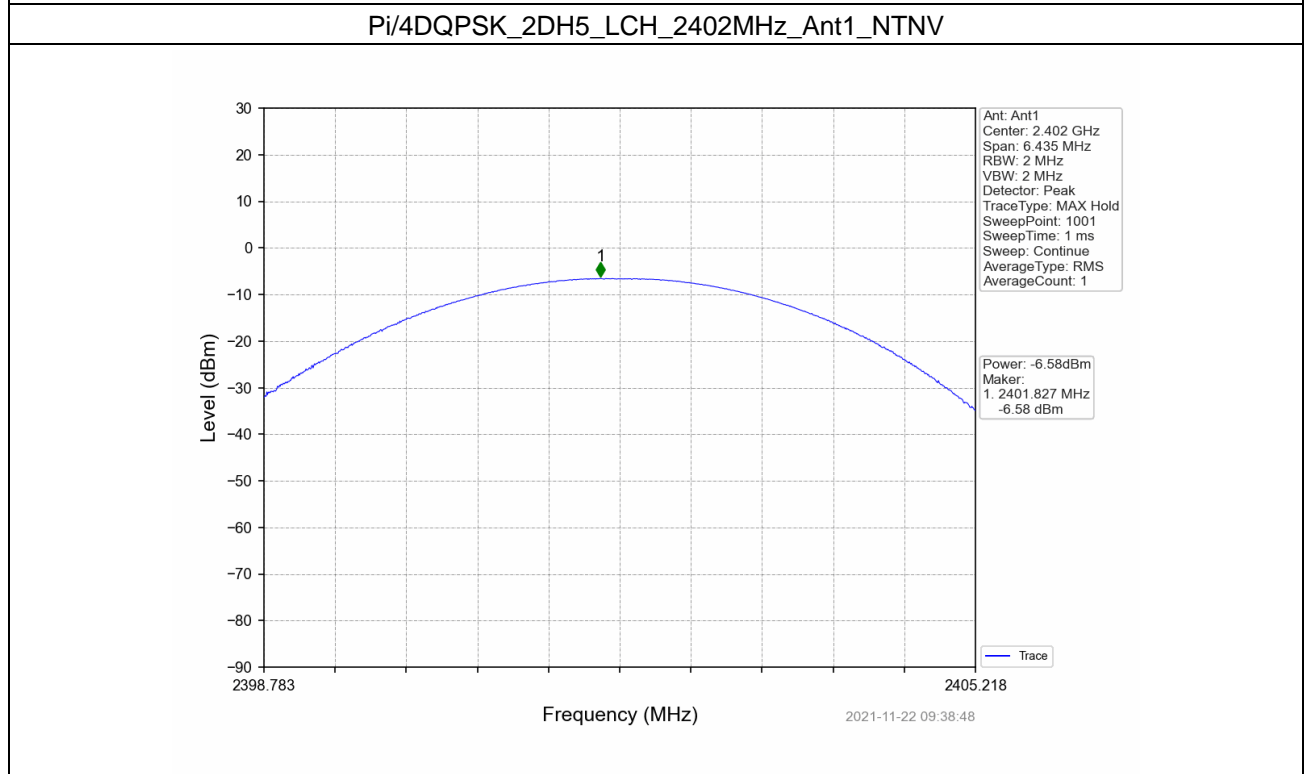
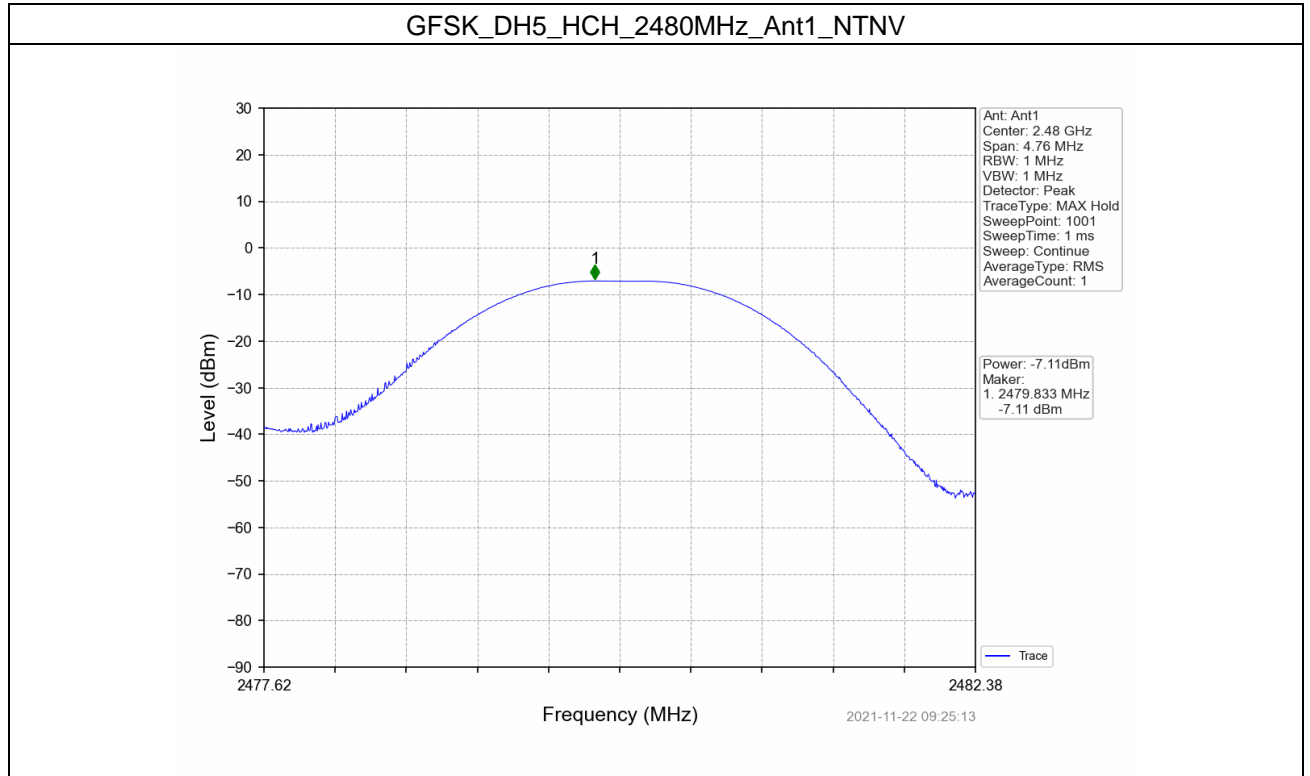
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### 2.1.2 Test Graph

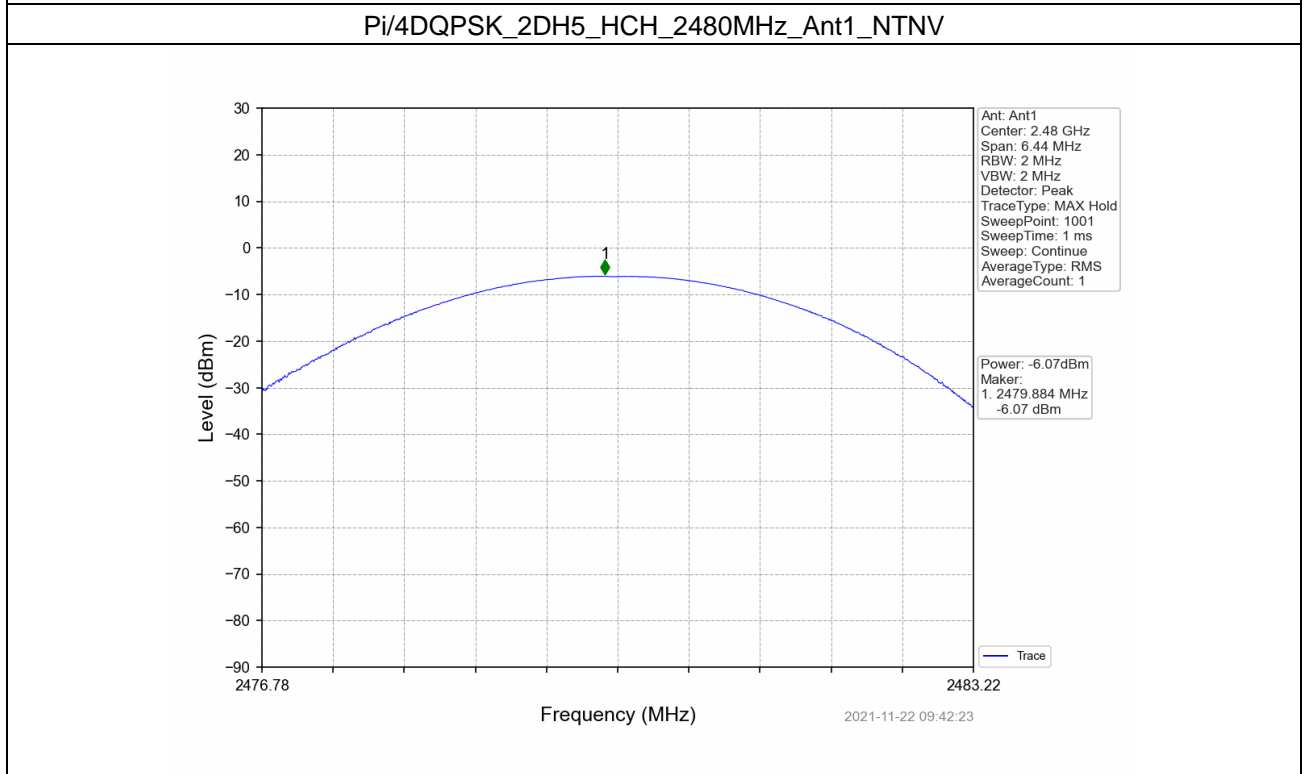
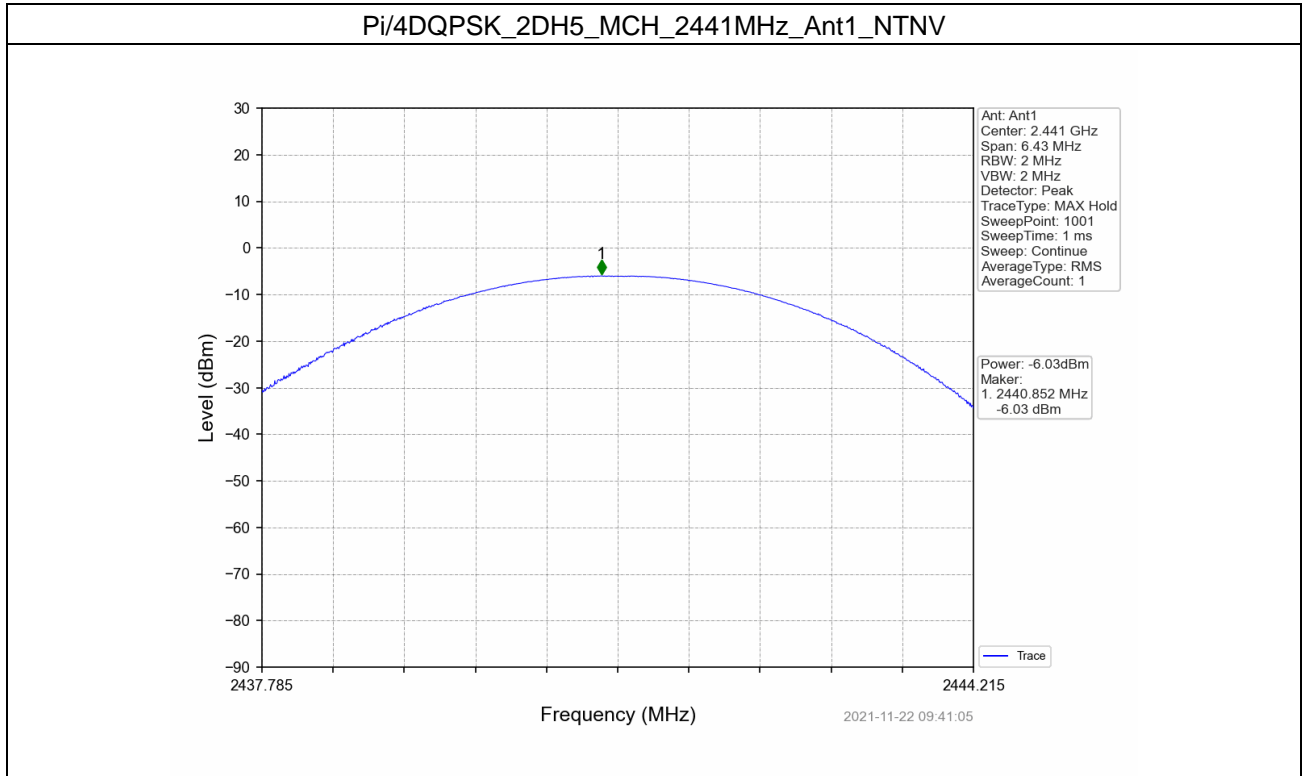


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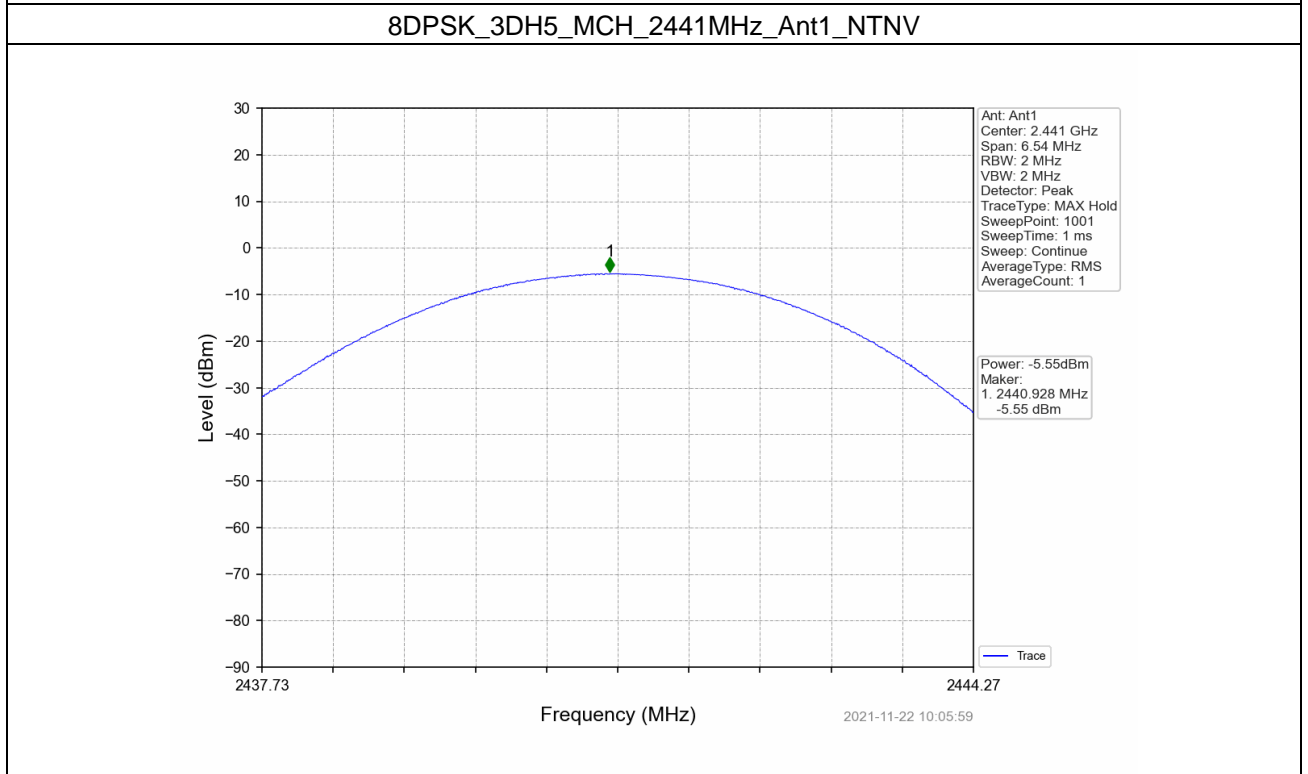
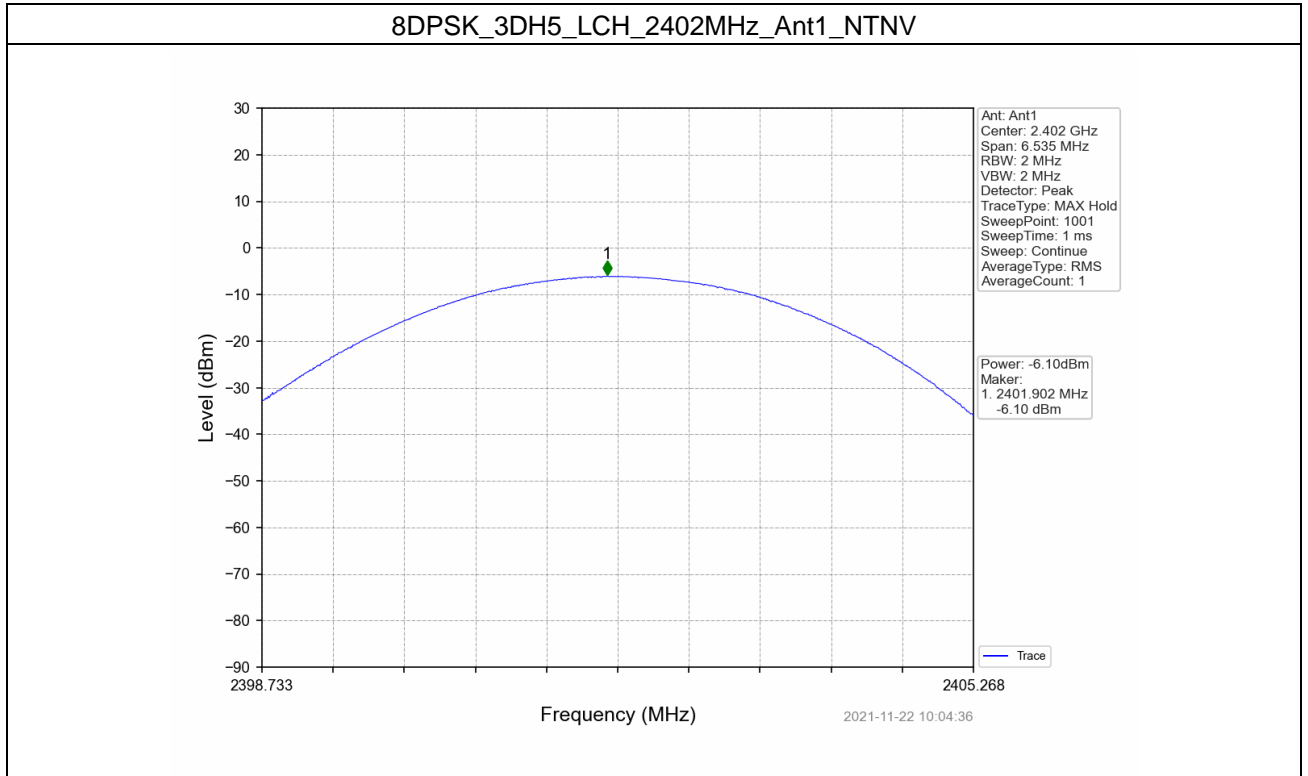
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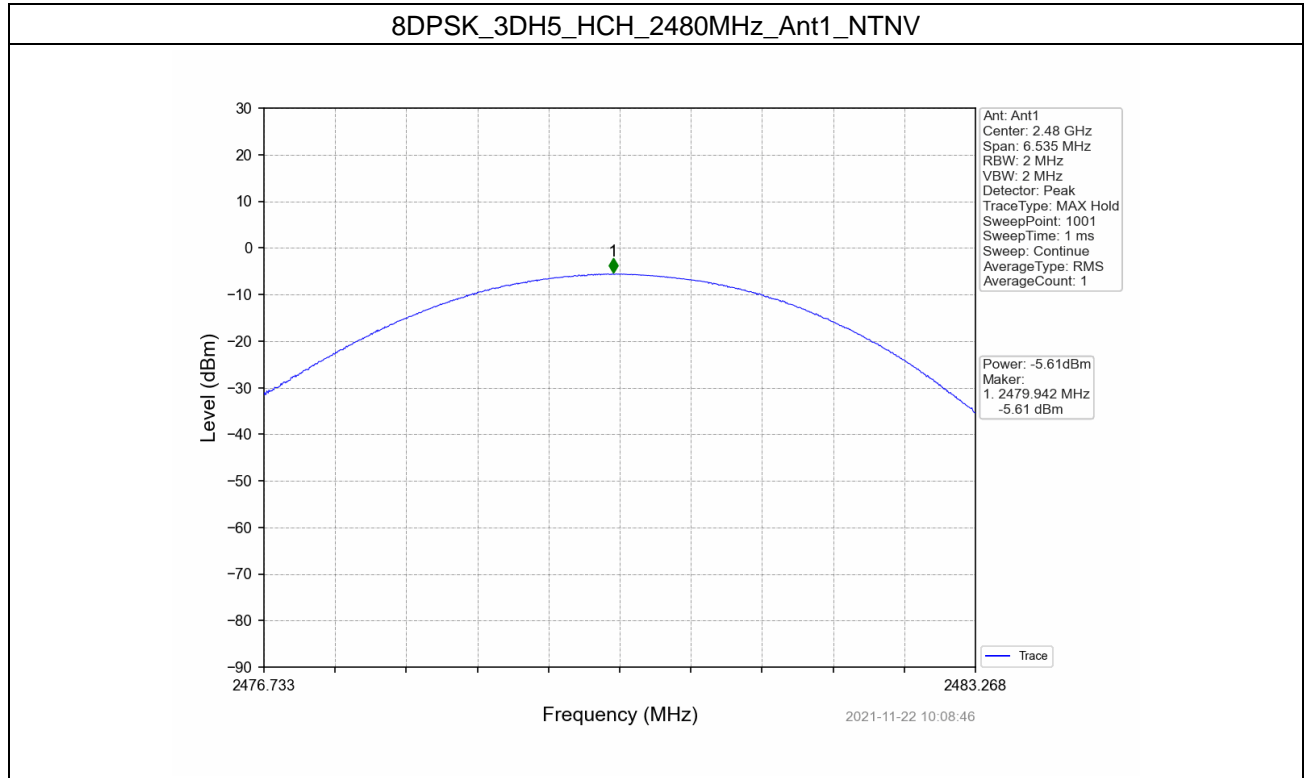
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### 3. Carrier Frequency Separation

#### 3.1 Ant1

##### 3.1.1 Test Result

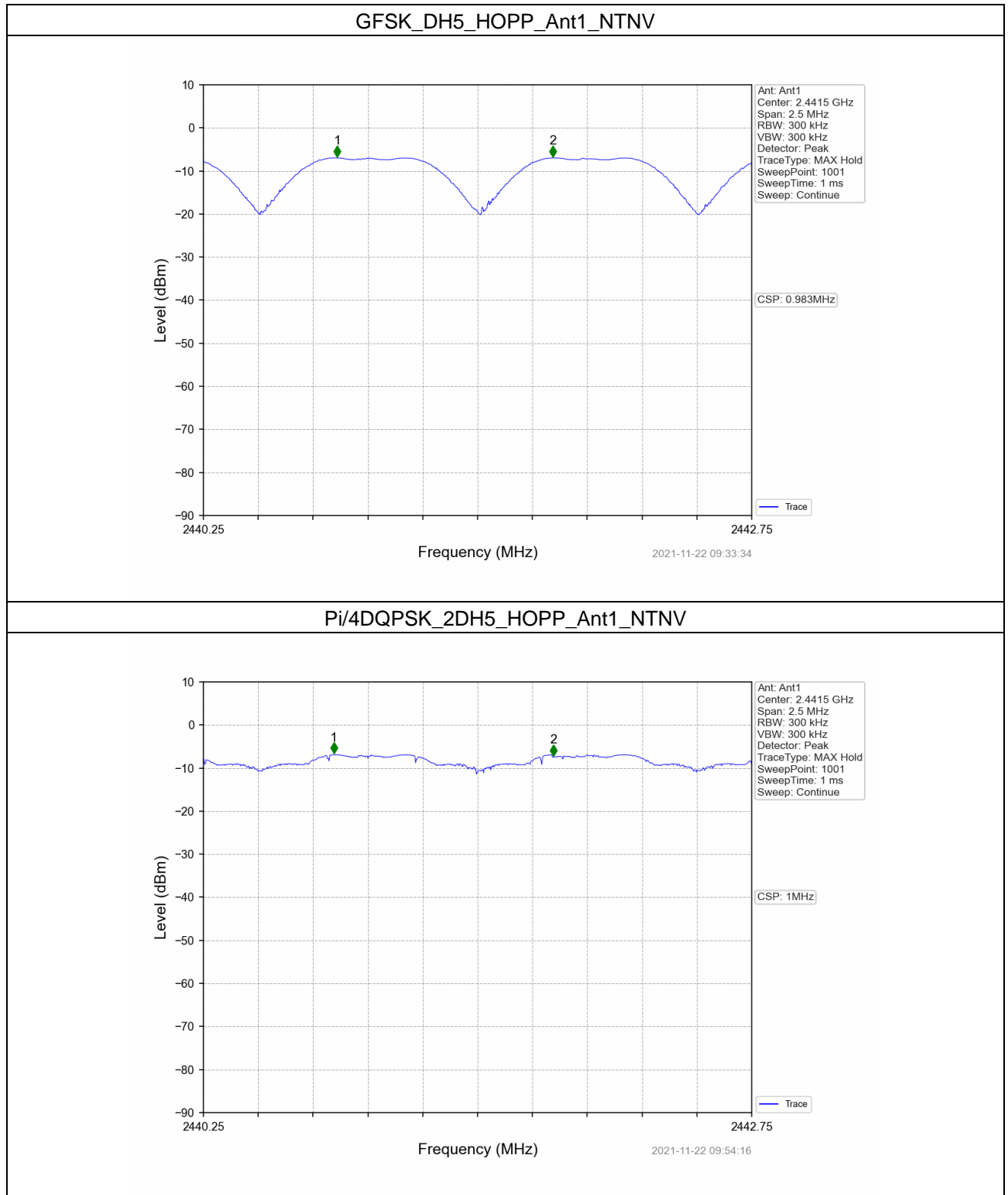
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.983	0.952	$\geq 0.952$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.000	1.288	$\geq 0.859$	Pass
8DPSK	SISO	HOPP	3DH5	0.993	1.308	$\geq 0.872$	Pass



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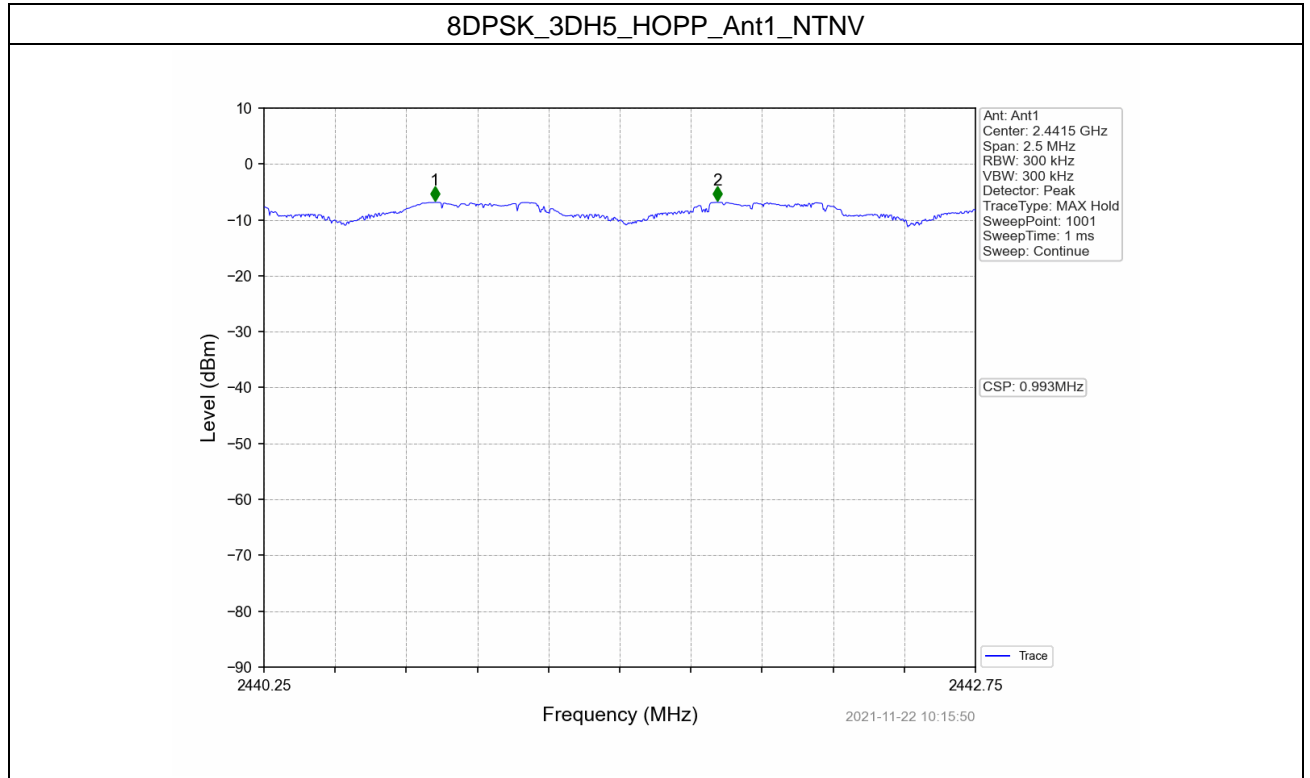
### 3.1.2 Test Graph



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## 4. Number of Hopping Frequencies

### 4.1 HoppNum

#### 4.1.1 Test Result

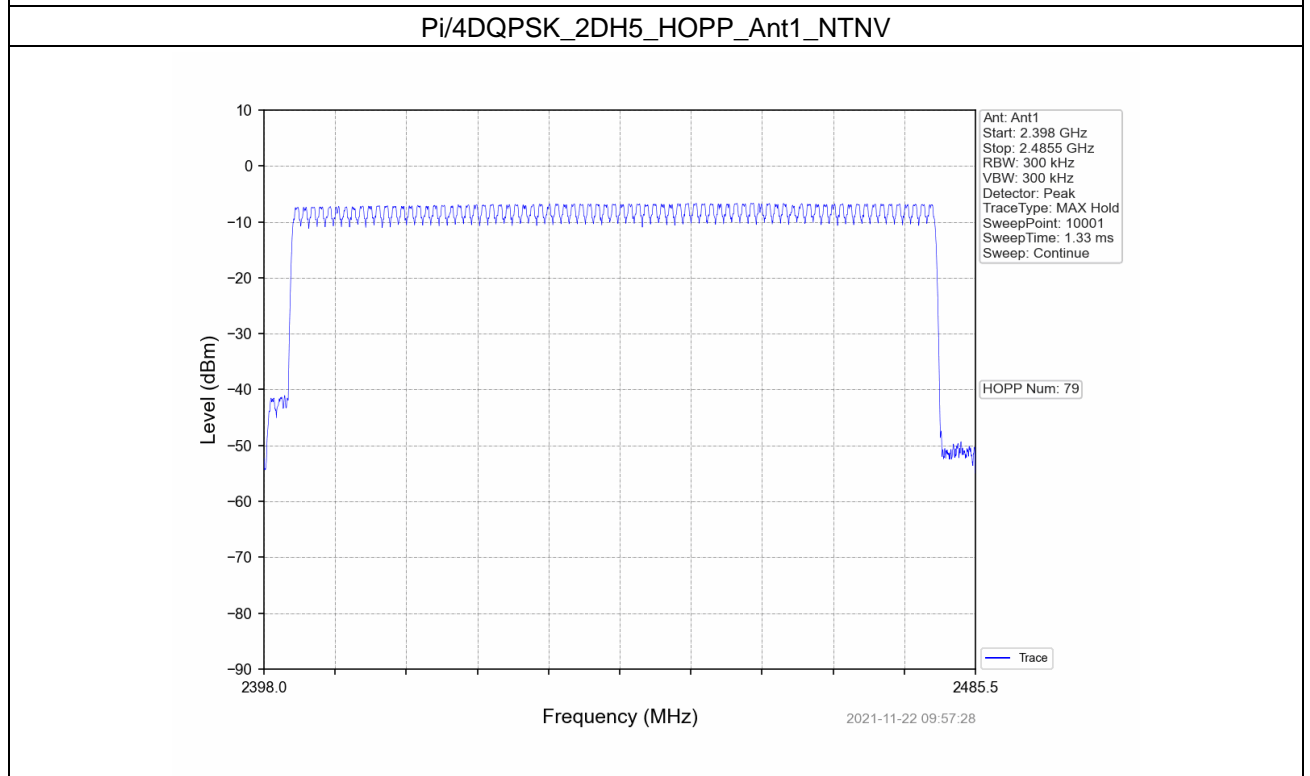
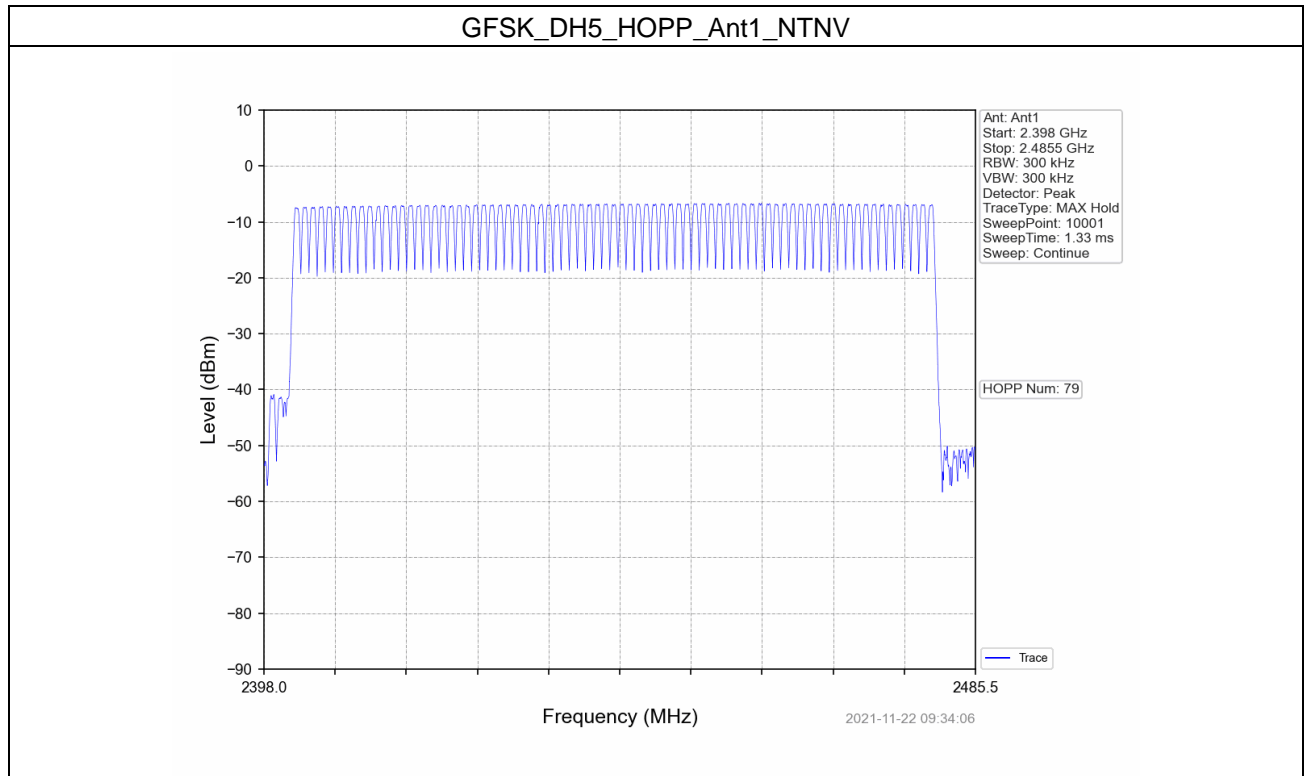
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				Ant1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass



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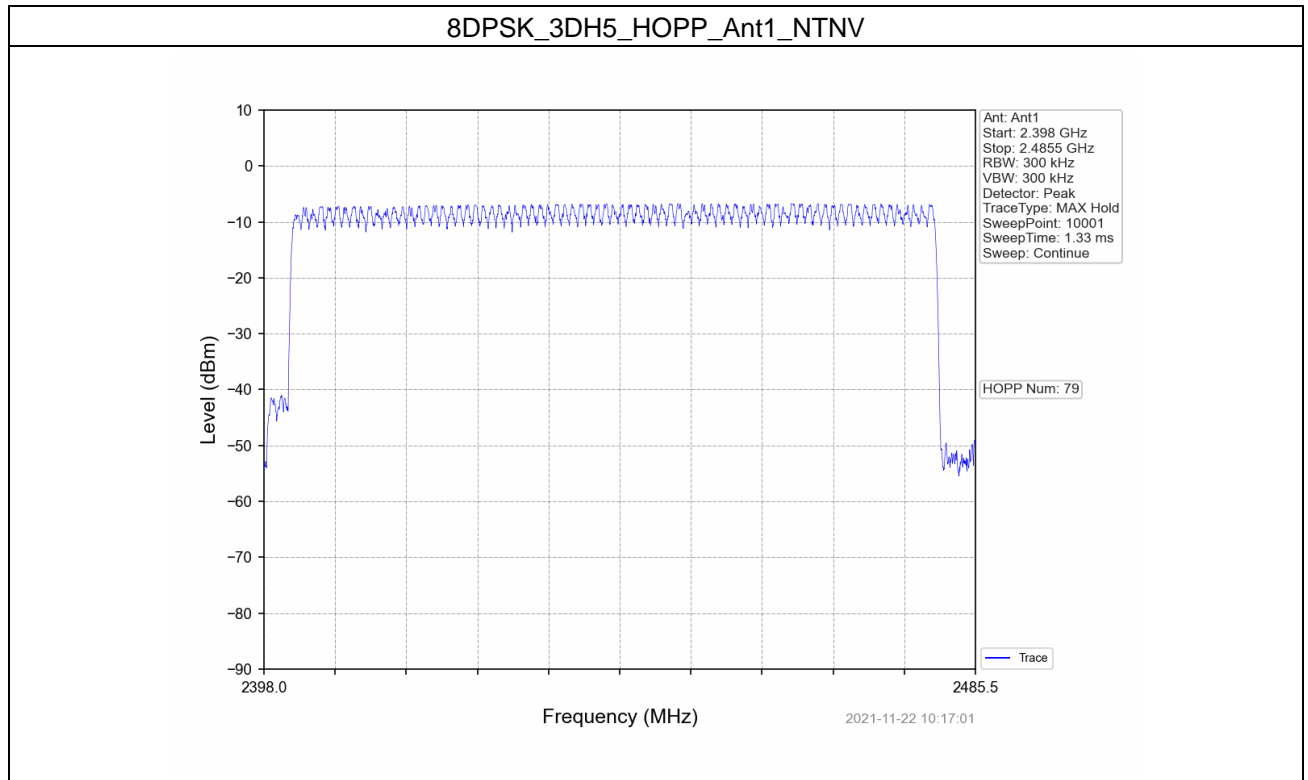
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### 4.1.2 Test Graph



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## 5. Time of Occupancy (Dwell Time)

### 5.1 Ant1

#### 5.1.1 Test Result

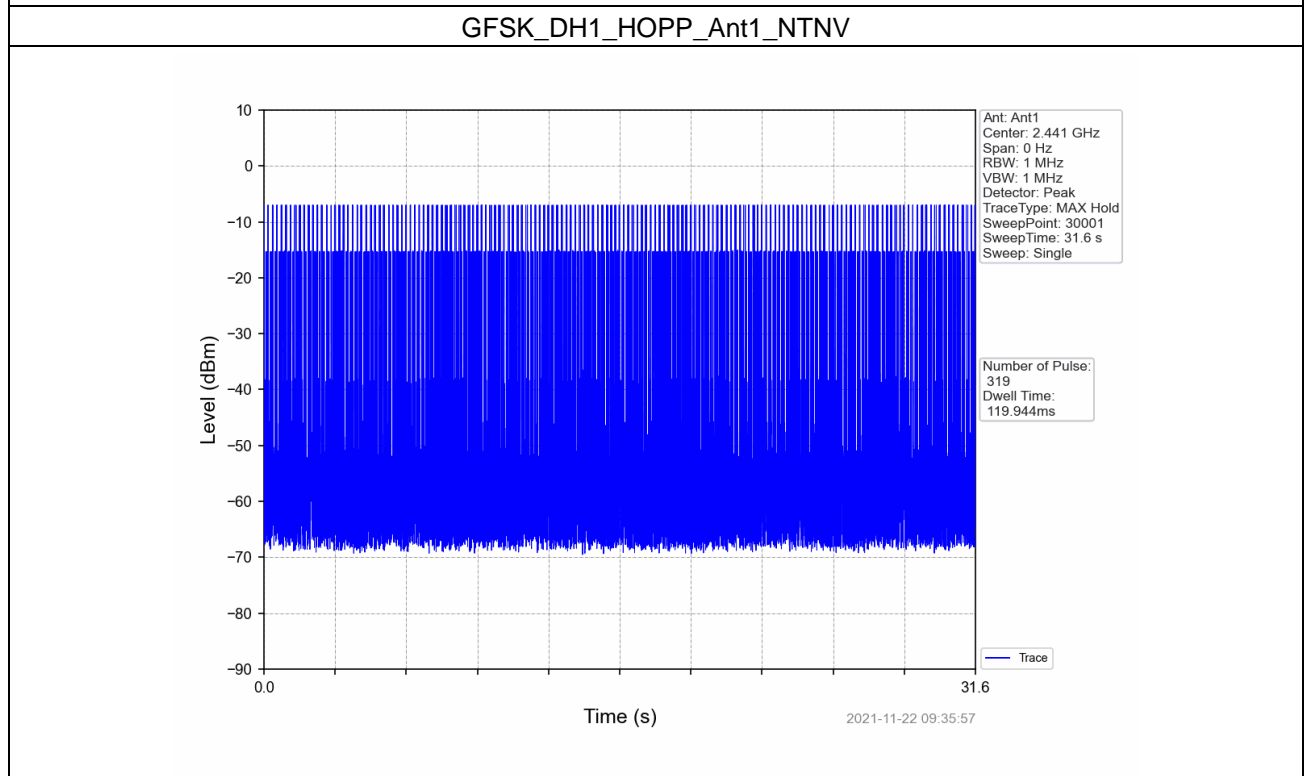
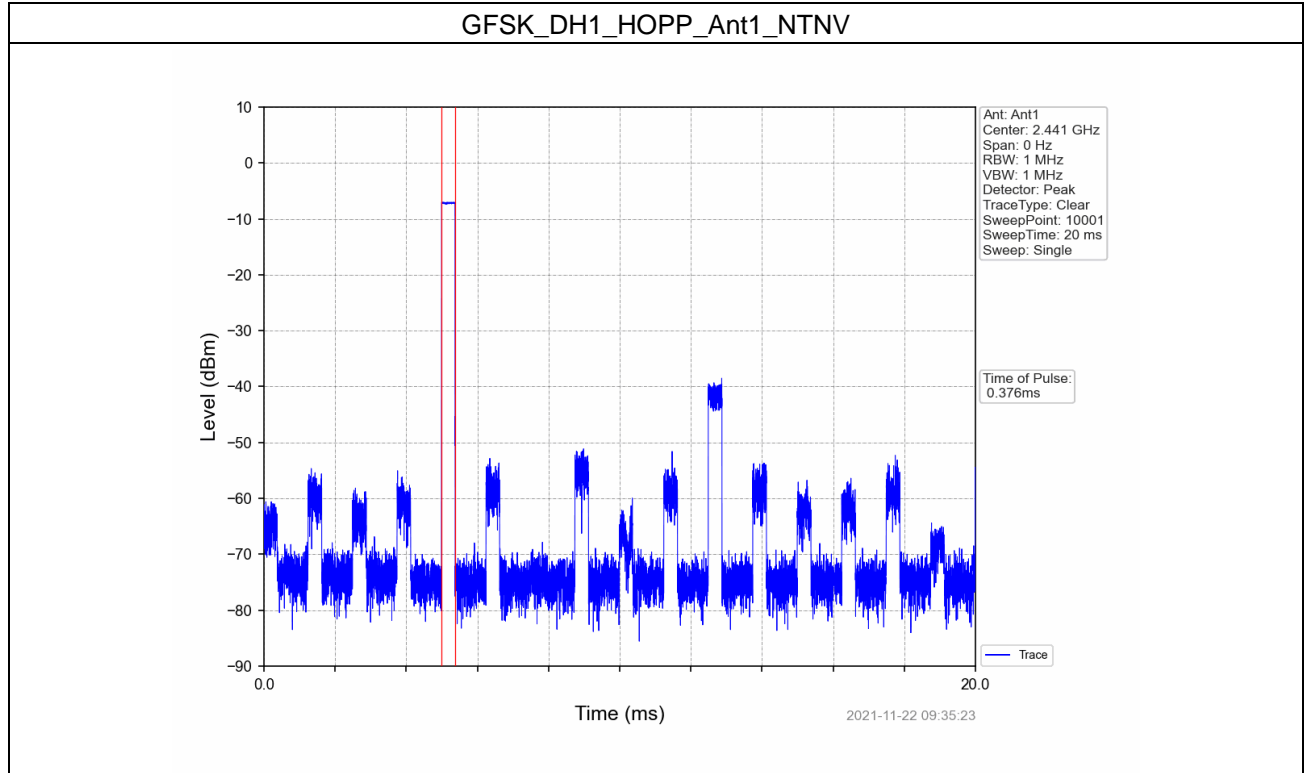
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.376	31.600	319	119.944	<=400	Pass
			DH3	1.634	31.600	157	256.538	<=400	Pass
			DH5	2.882	31.600	91	262.262	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.388	31.600	317	122.996	<=400	Pass
			2DH3	1.640	31.600	164	268.960	<=400	Pass
			2DH5	2.886	31.600	109	314.574	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.388	31.600	317	122.996	<=400	Pass
			3DH3	1.638	31.600	159	260.442	<=400	Pass
			3DH5	2.890	31.600	104	300.560	<=400	Pass



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### 5.1.2 Test Graph

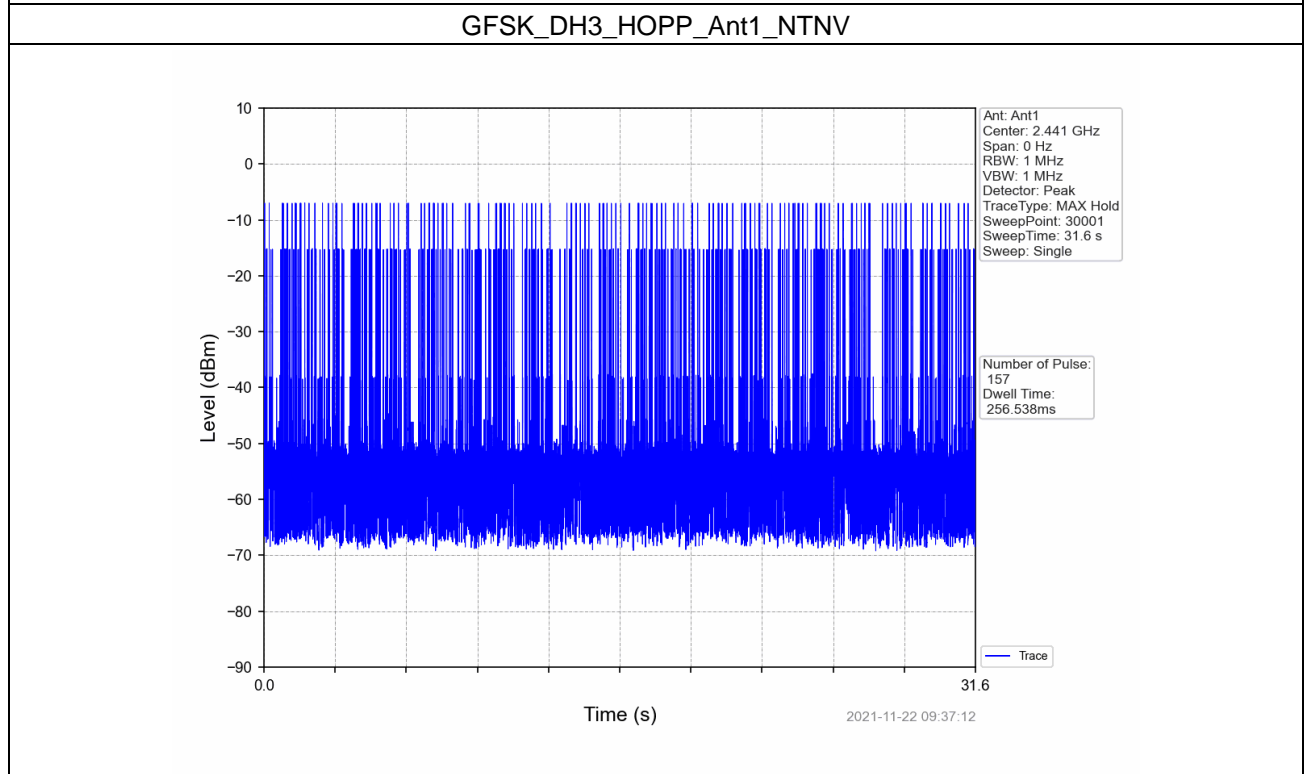
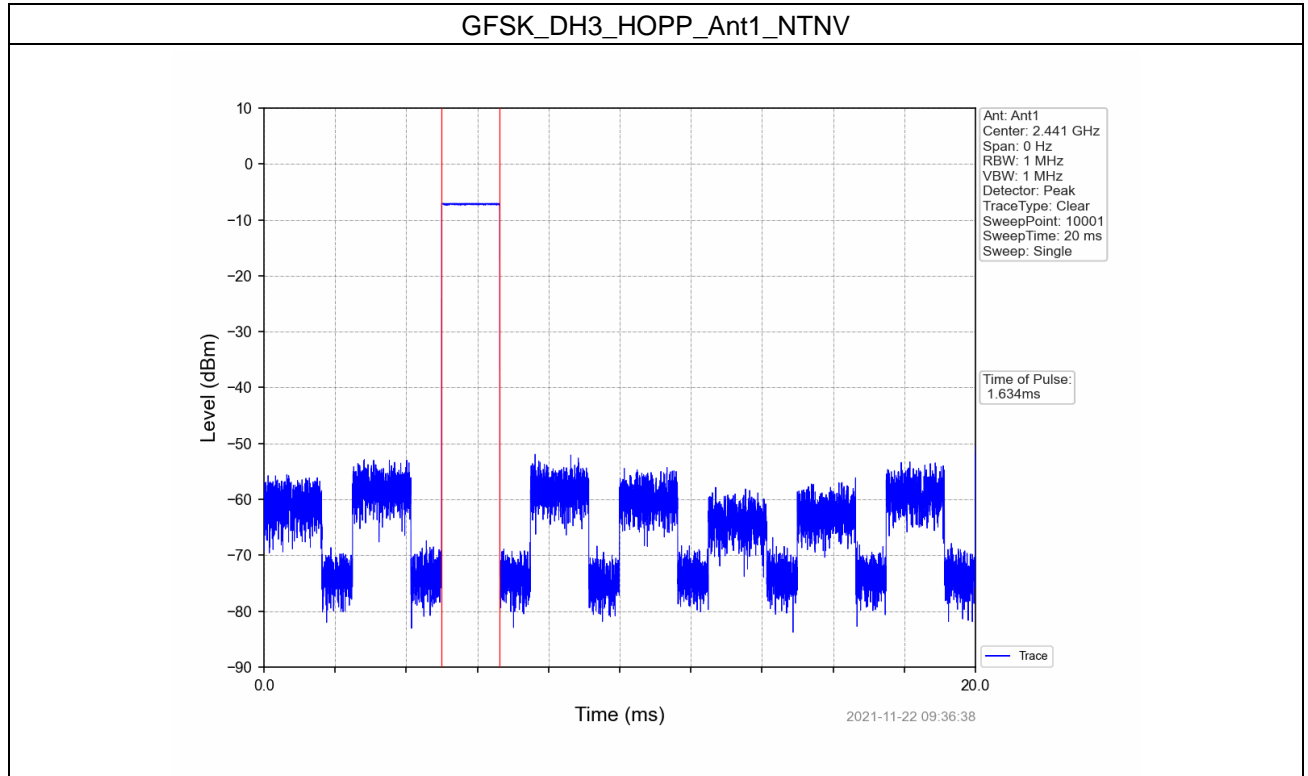


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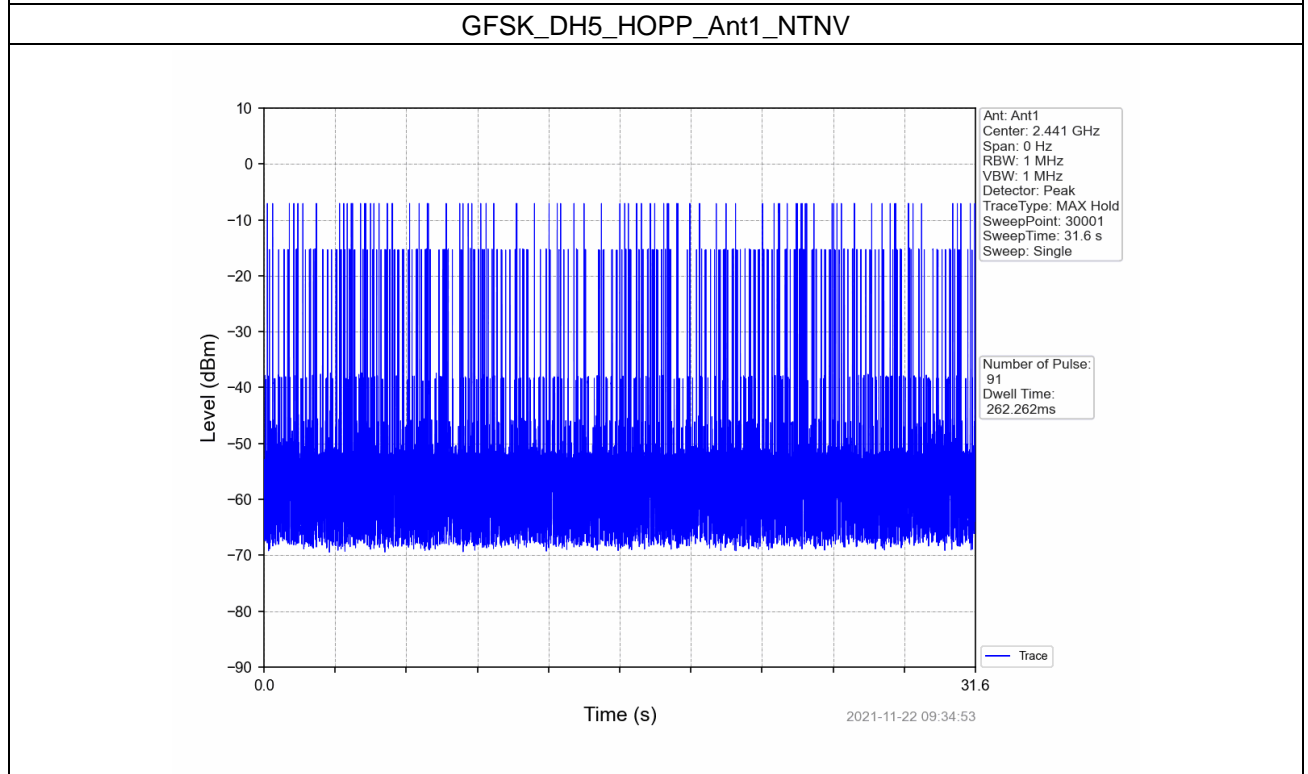
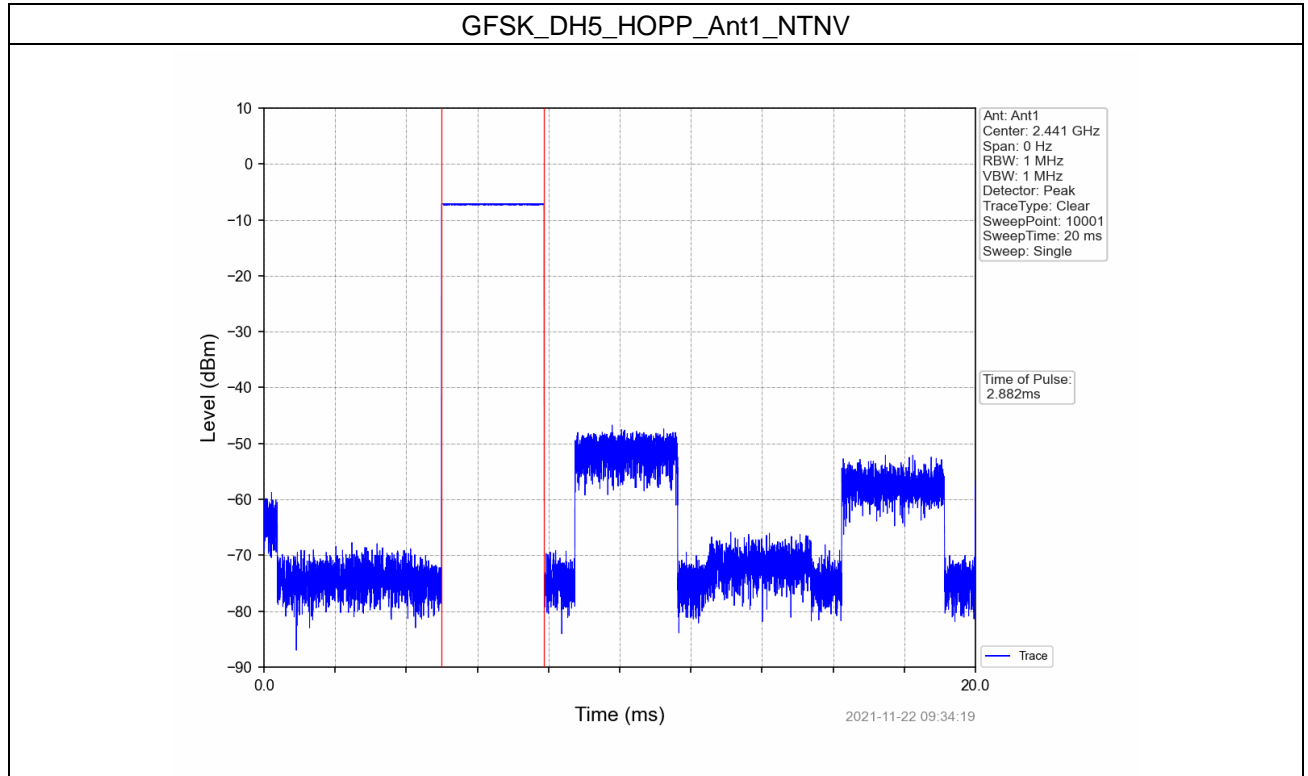
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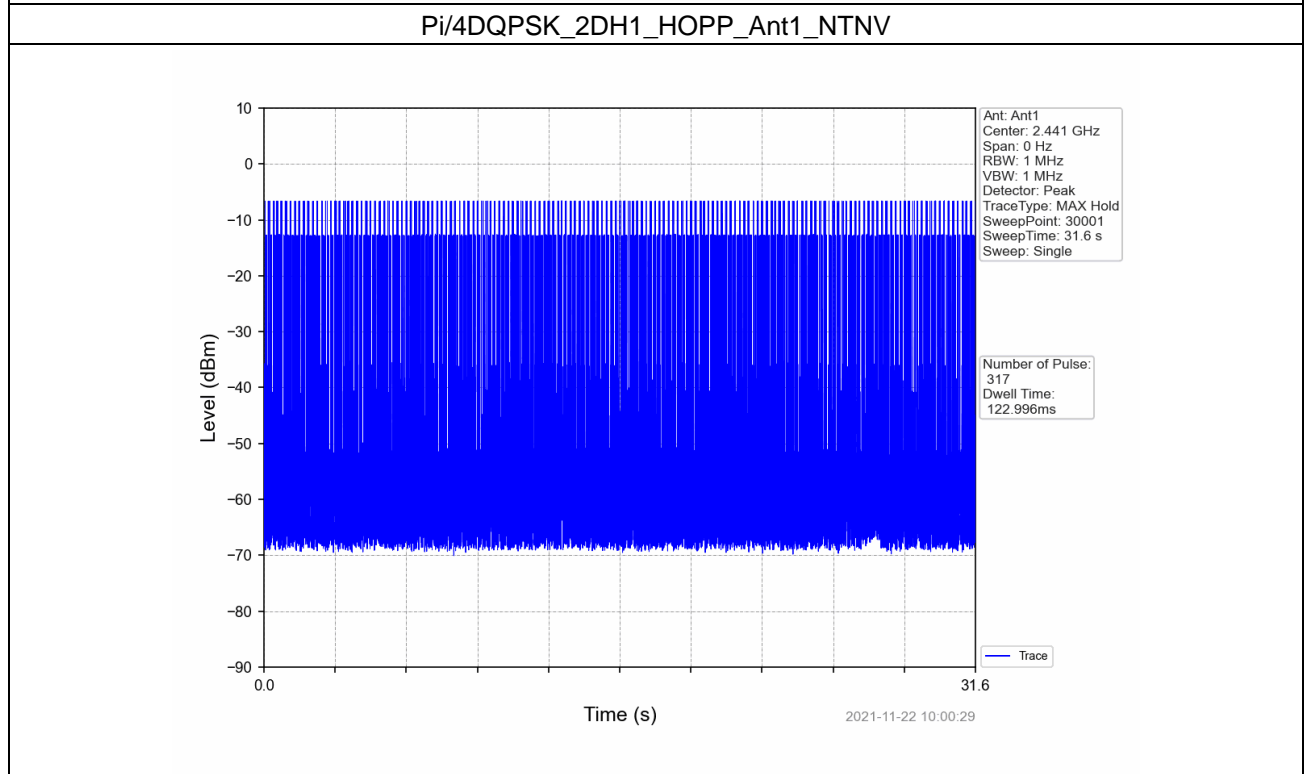
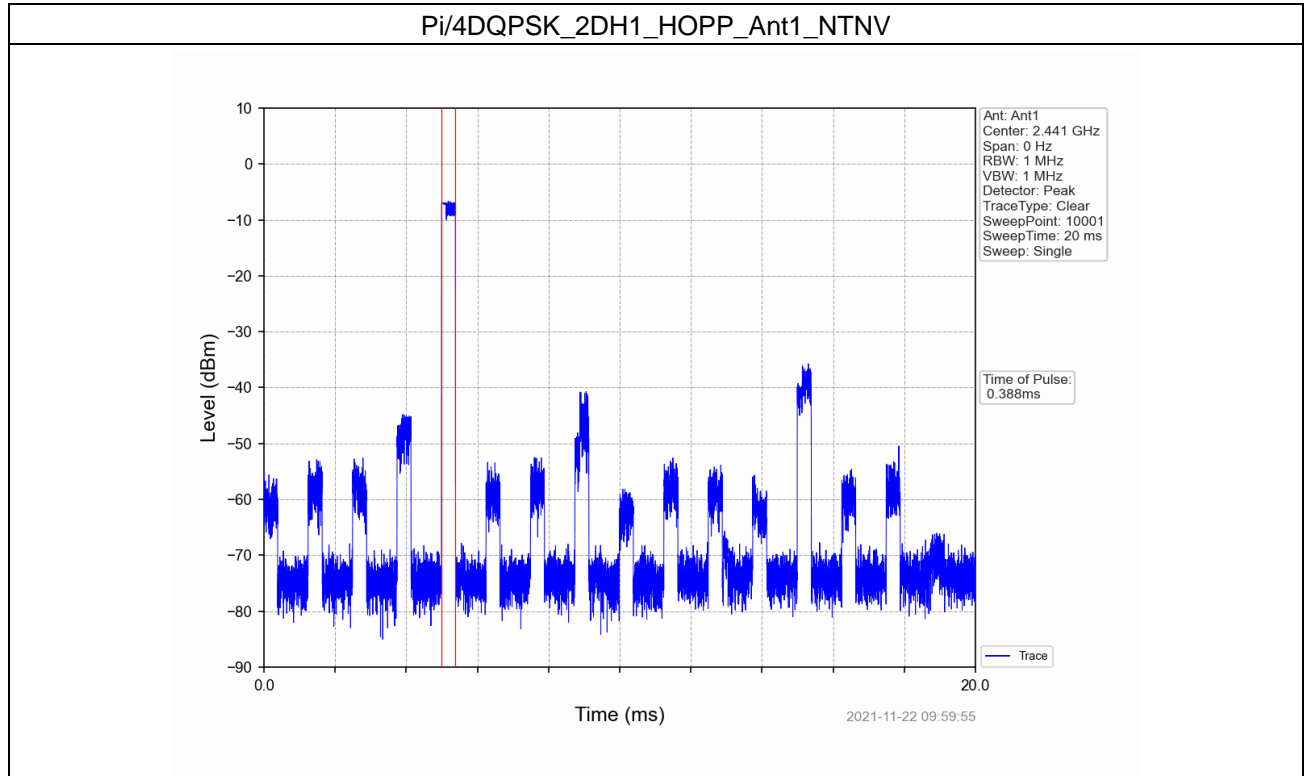


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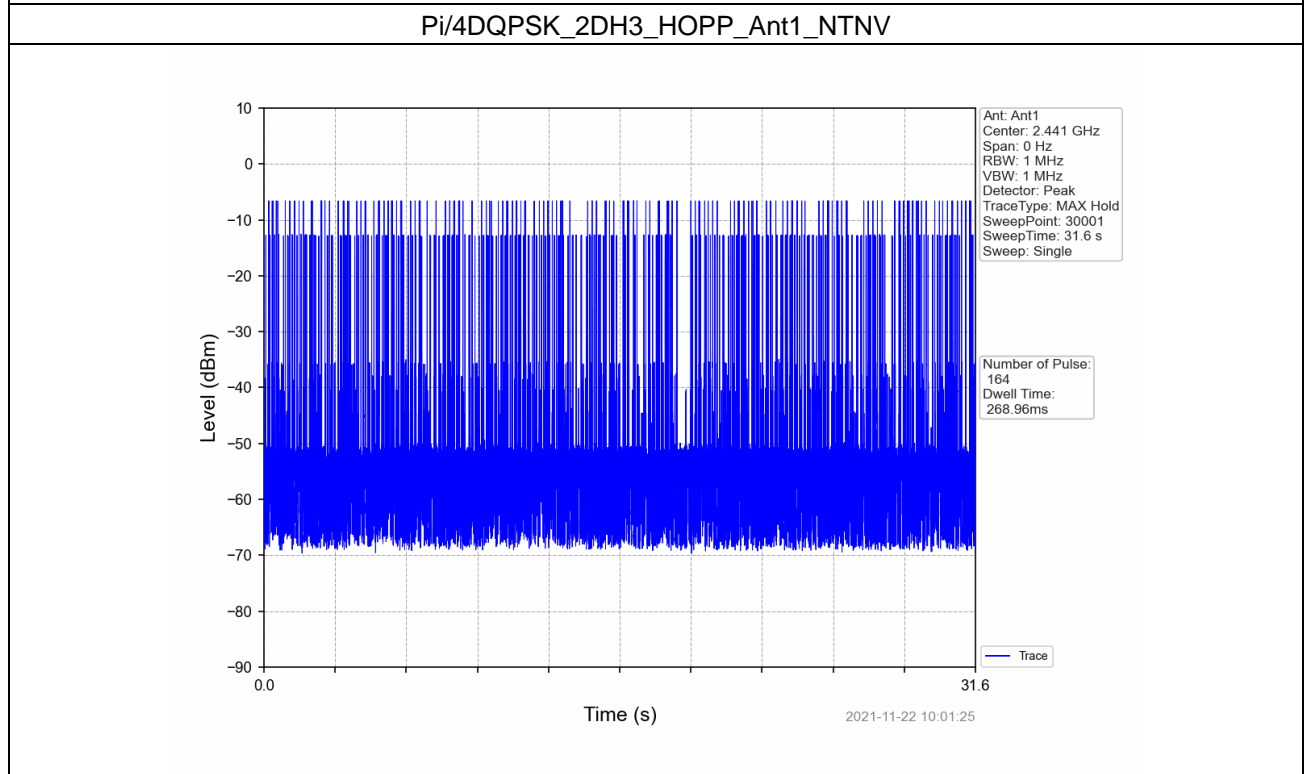
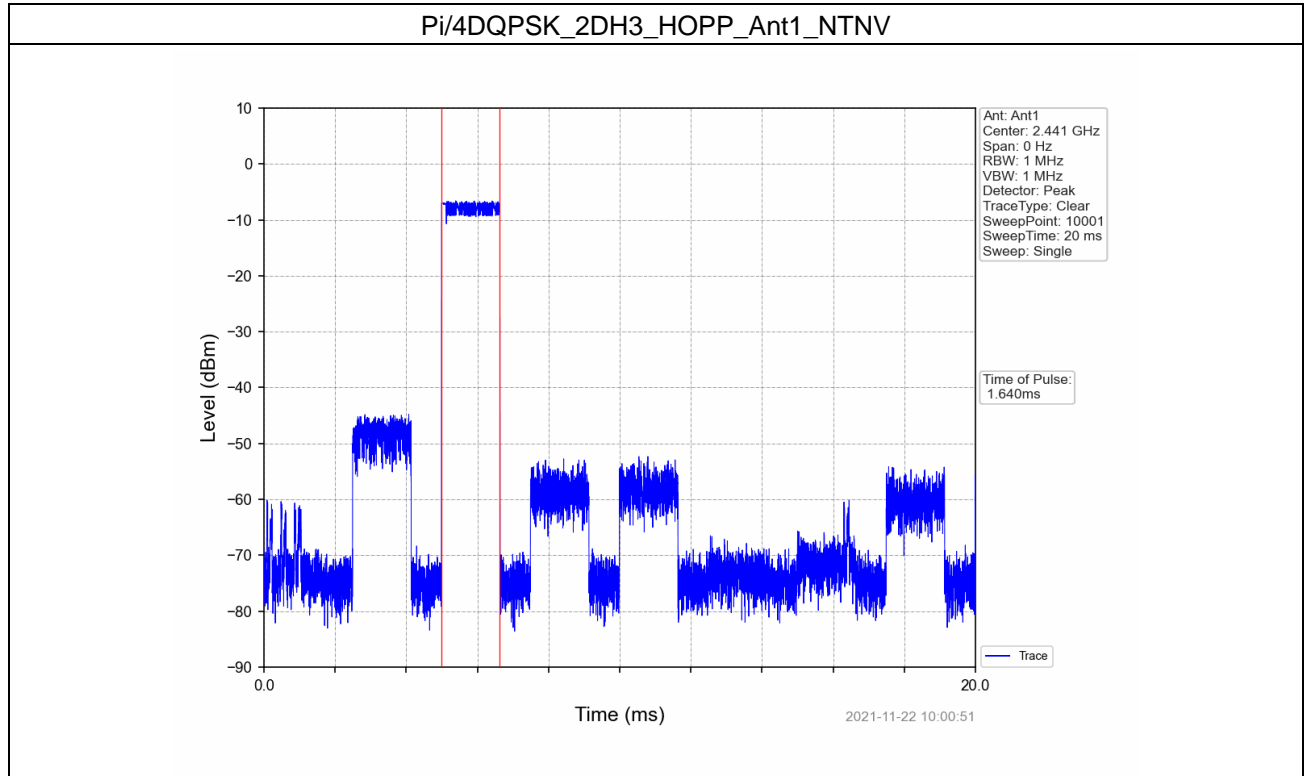
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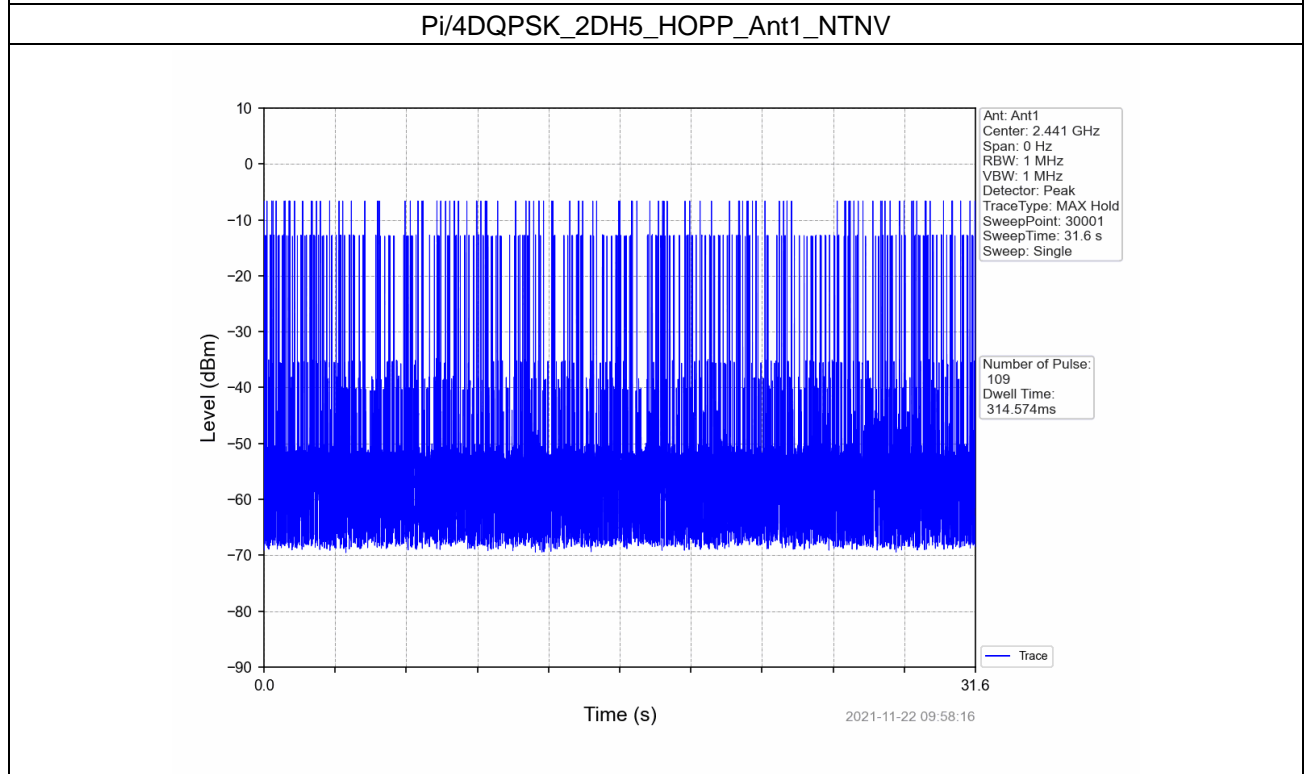
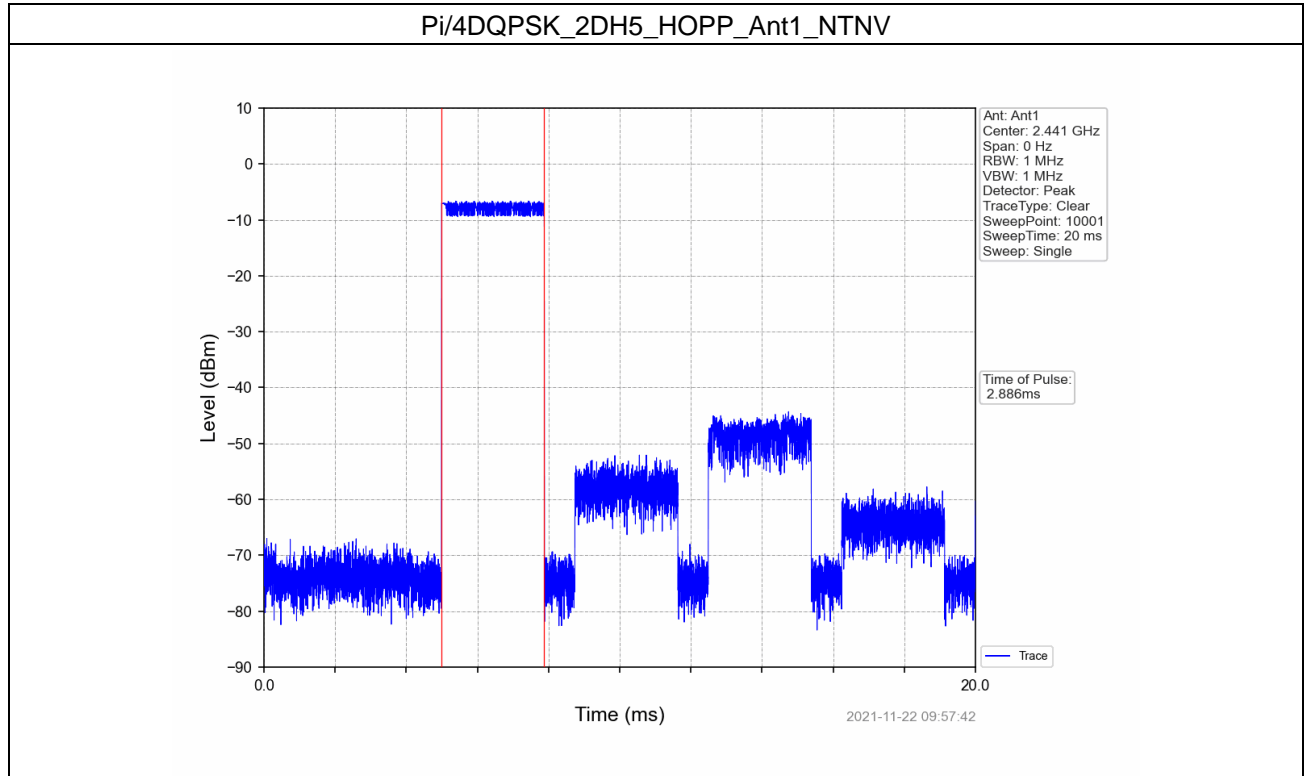
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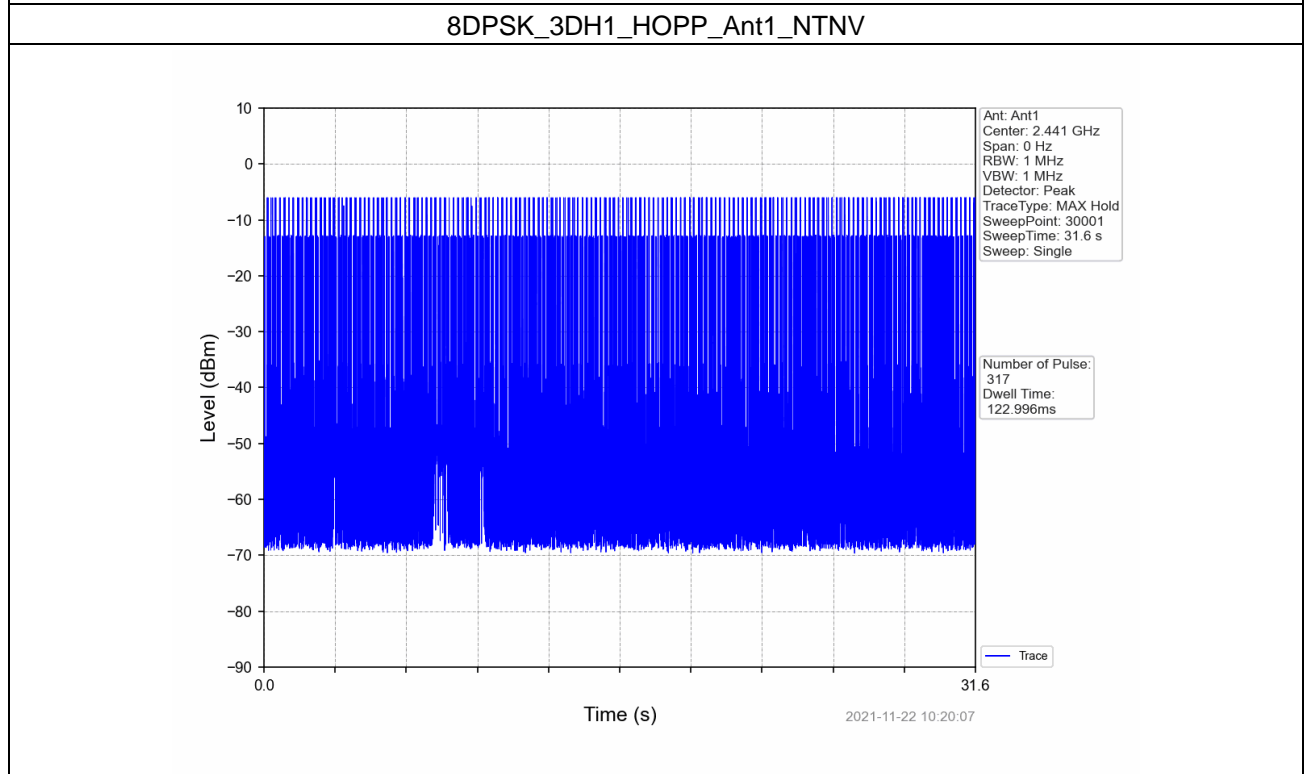
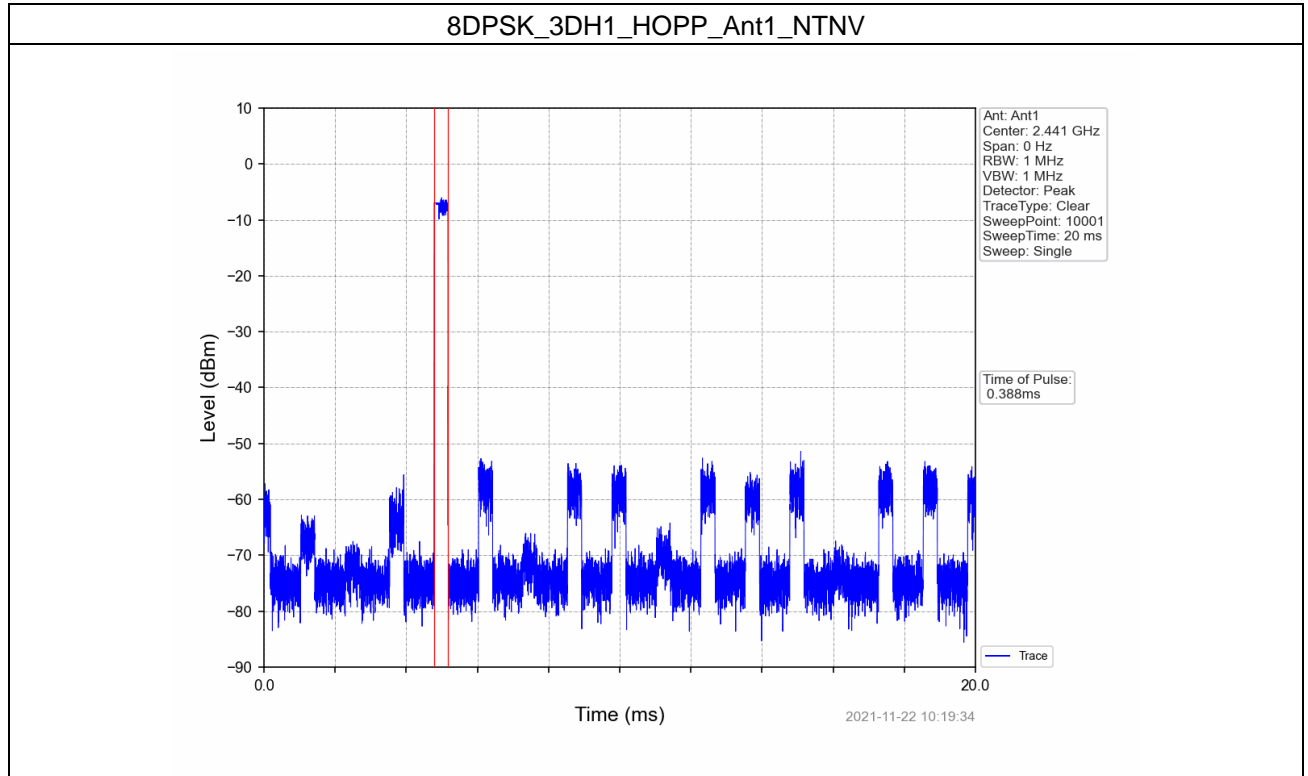
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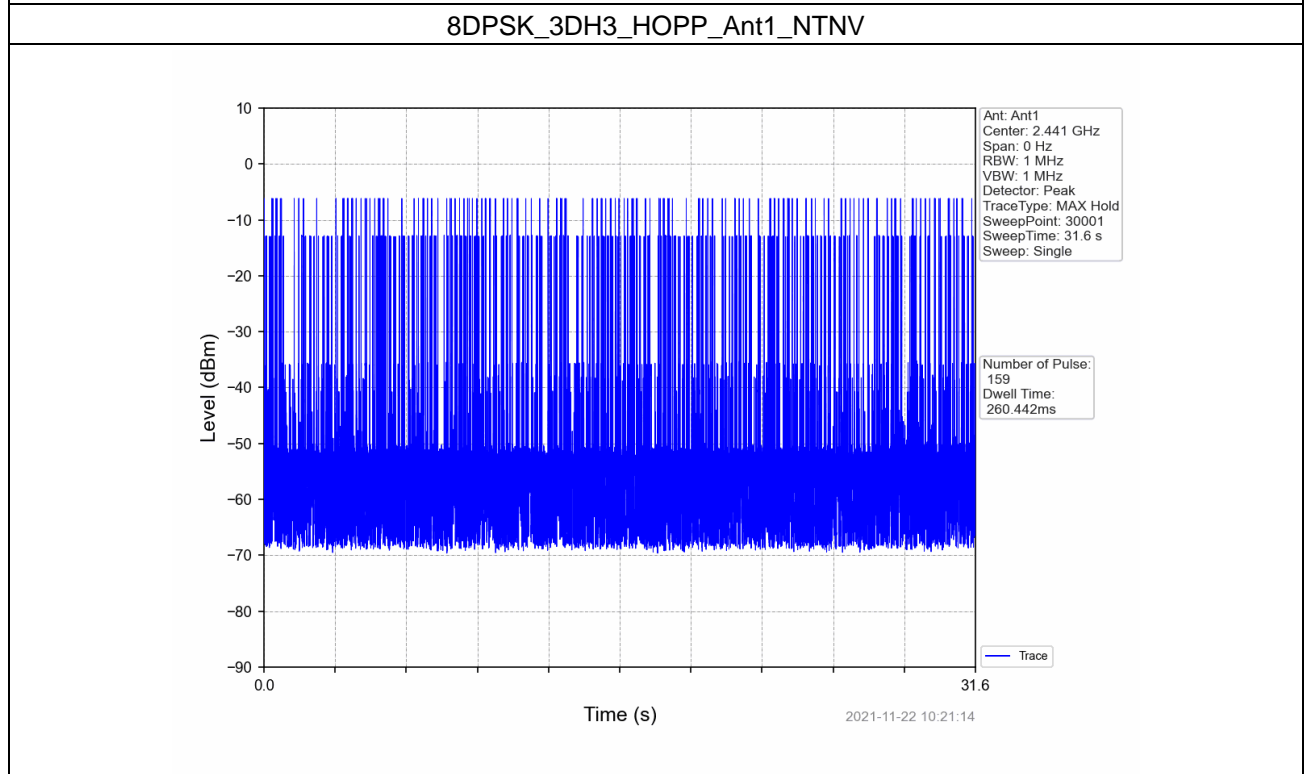
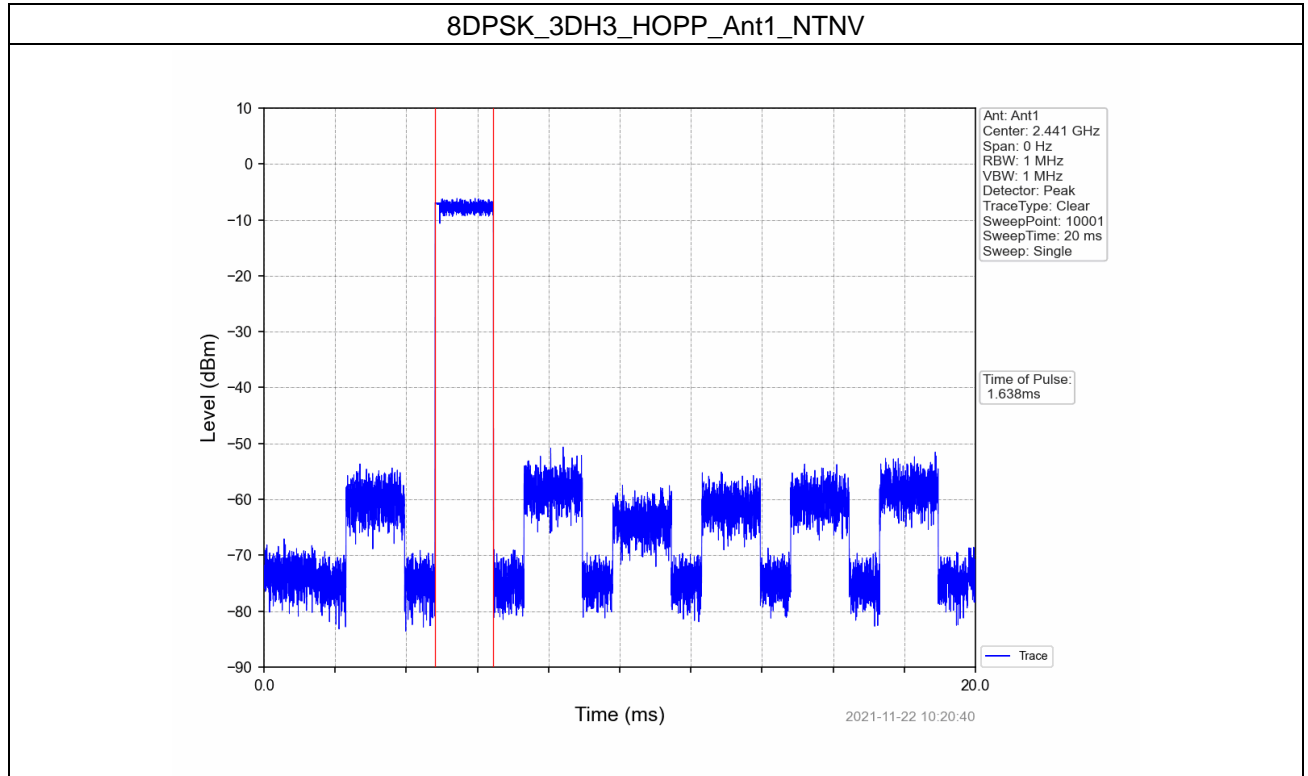


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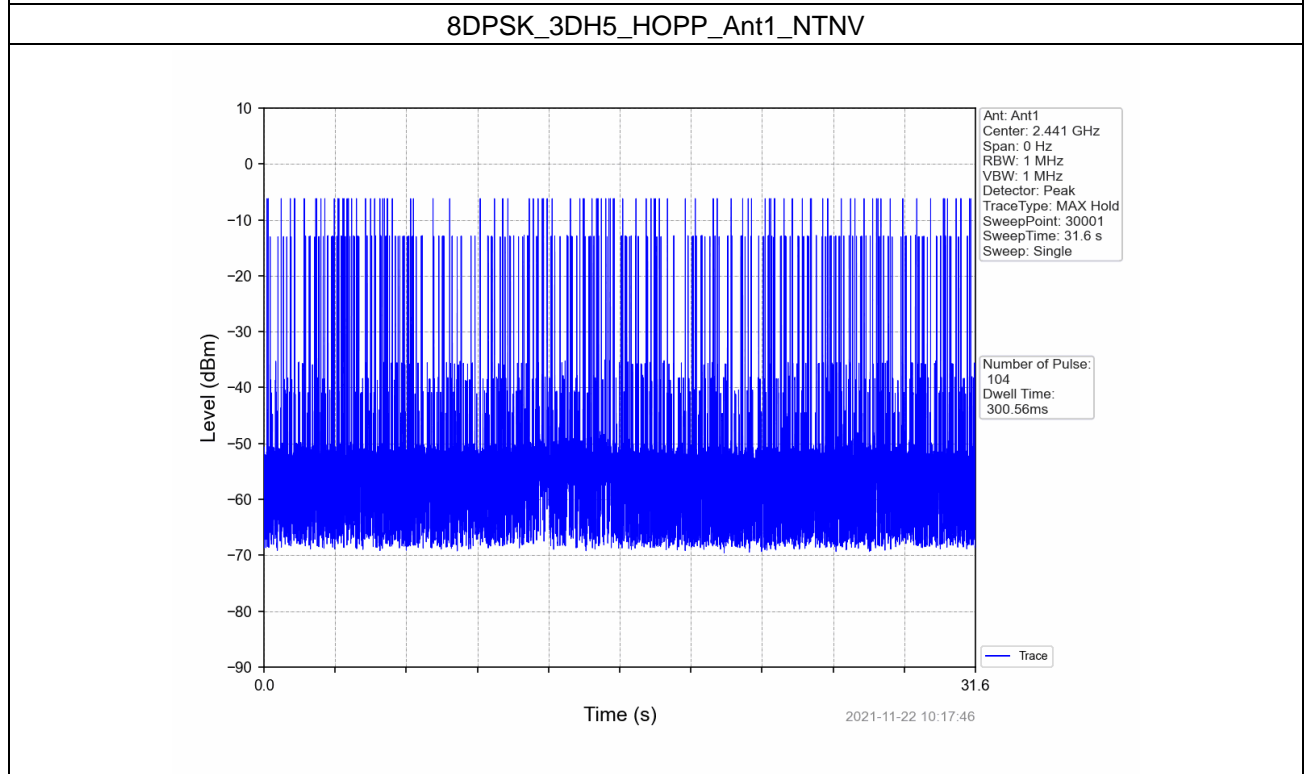
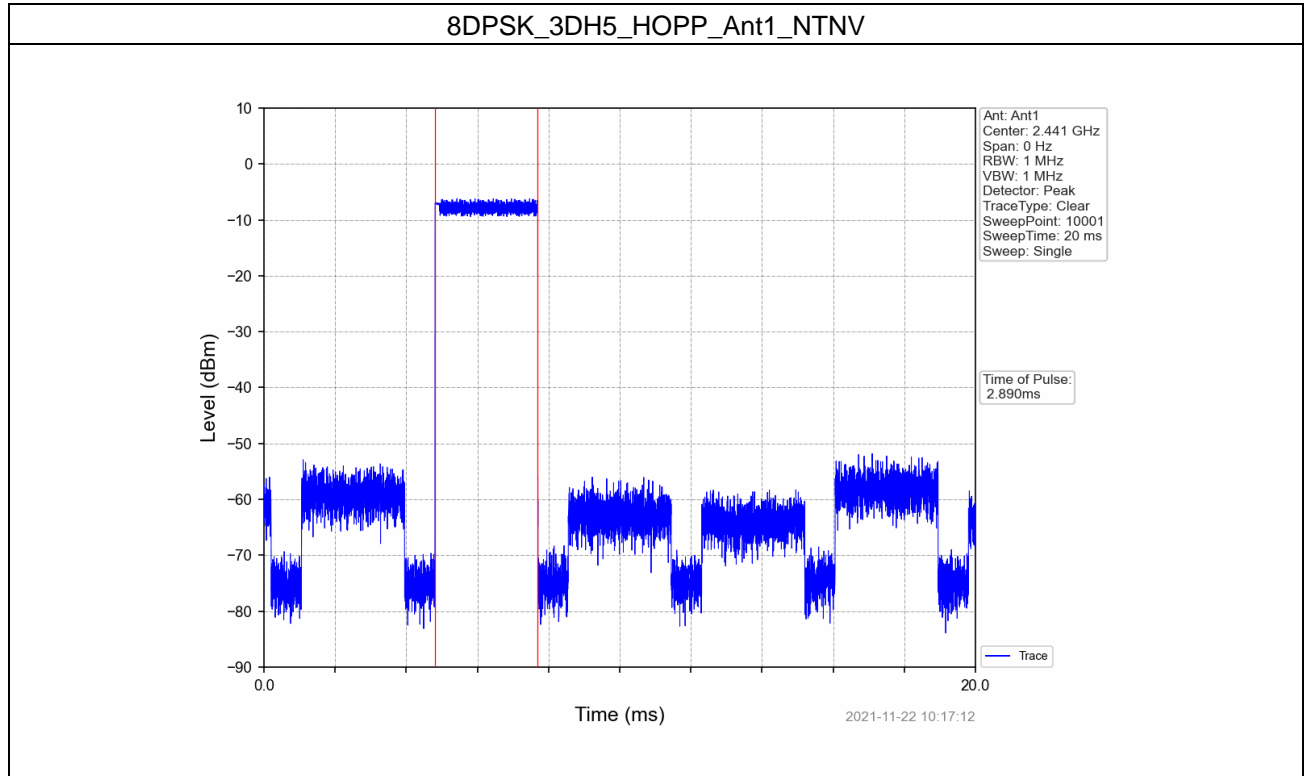


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## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Ref

#### 6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-7.65
		2441	DH5	1	-7.08
		2480	DH5	1	-7.14
Pi/4DQPSK	SISO	2402	2DH5	1	-7.62
		2441	2DH5	1	-7.07
		2480	2DH5	1	-7.12
8DPSK	SISO	2402	3DH5	1	-7.56
		2441	3DH5	1	-6.96
		2480	3DH5	1	-7.03

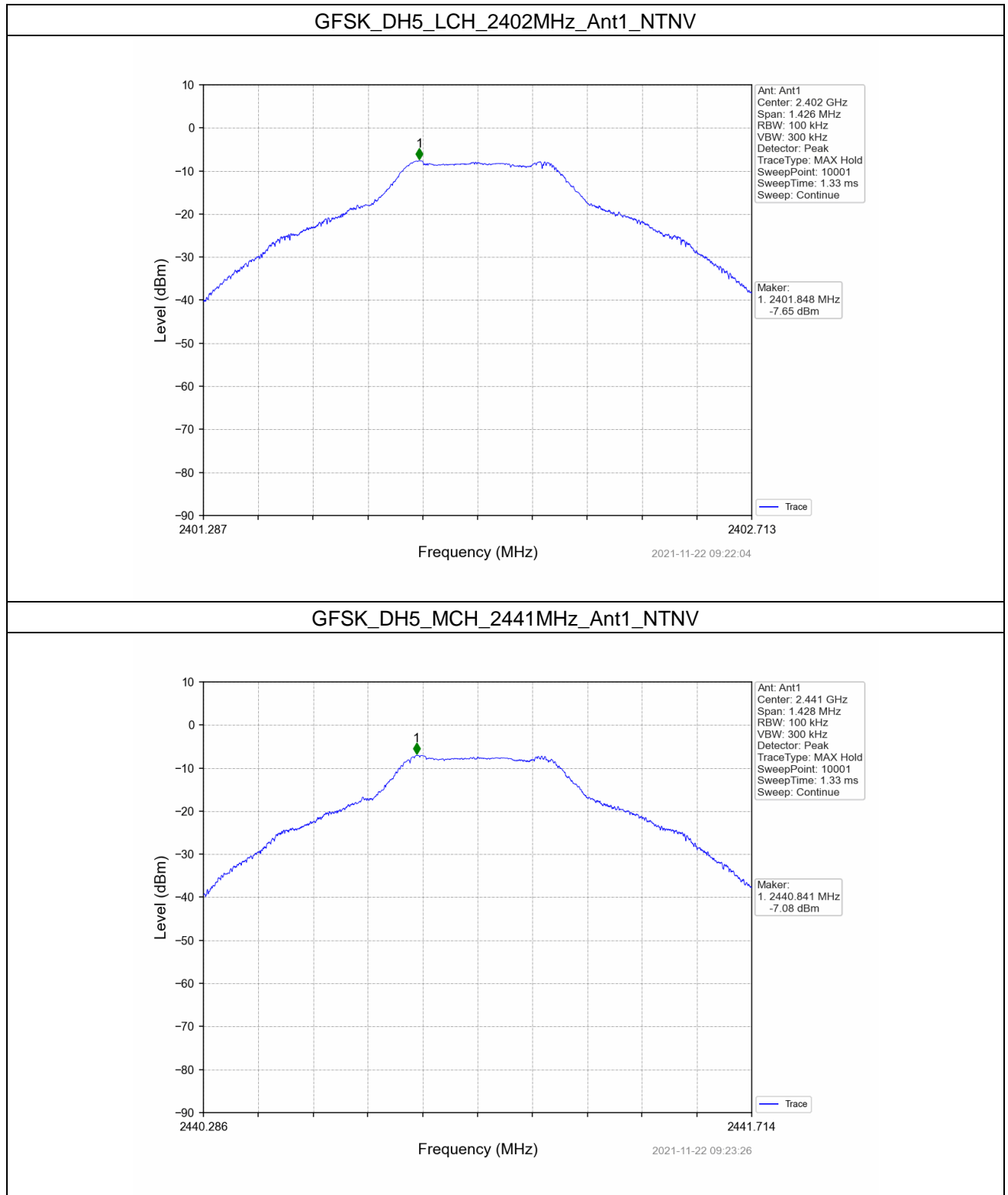
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



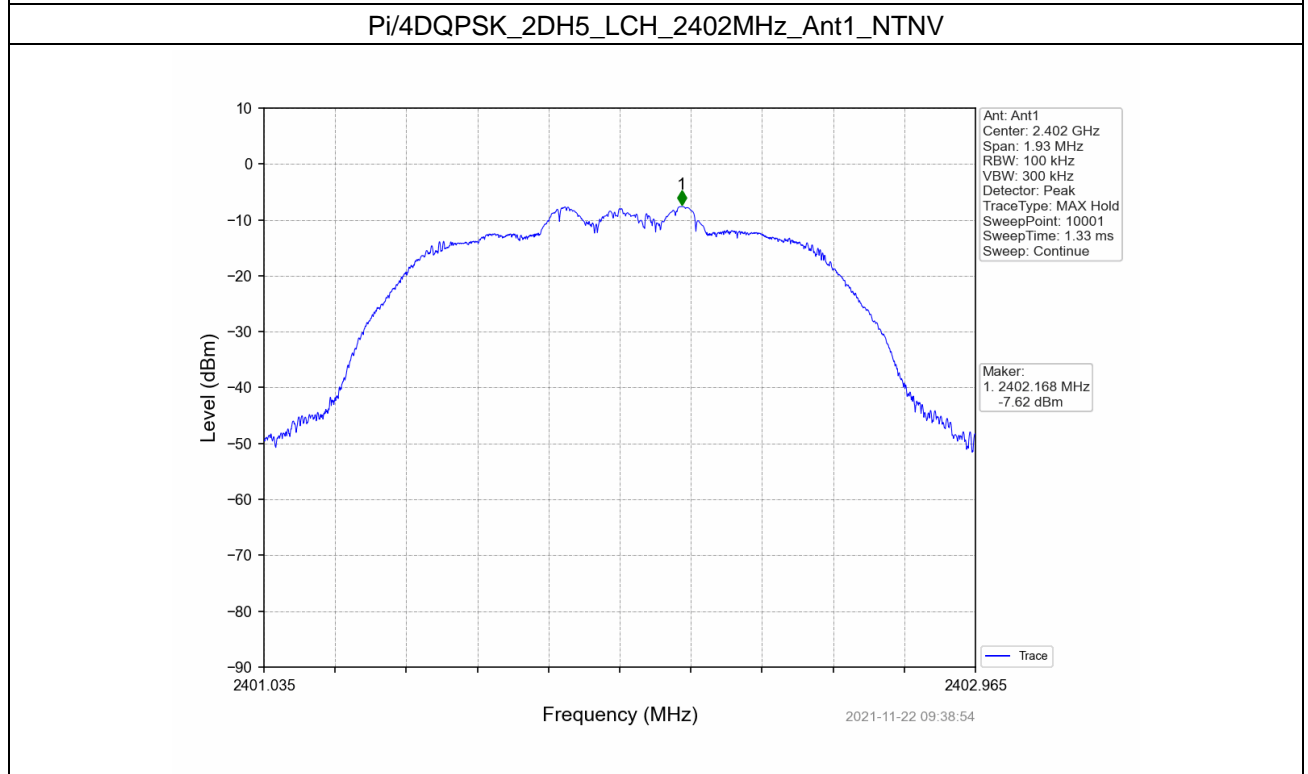
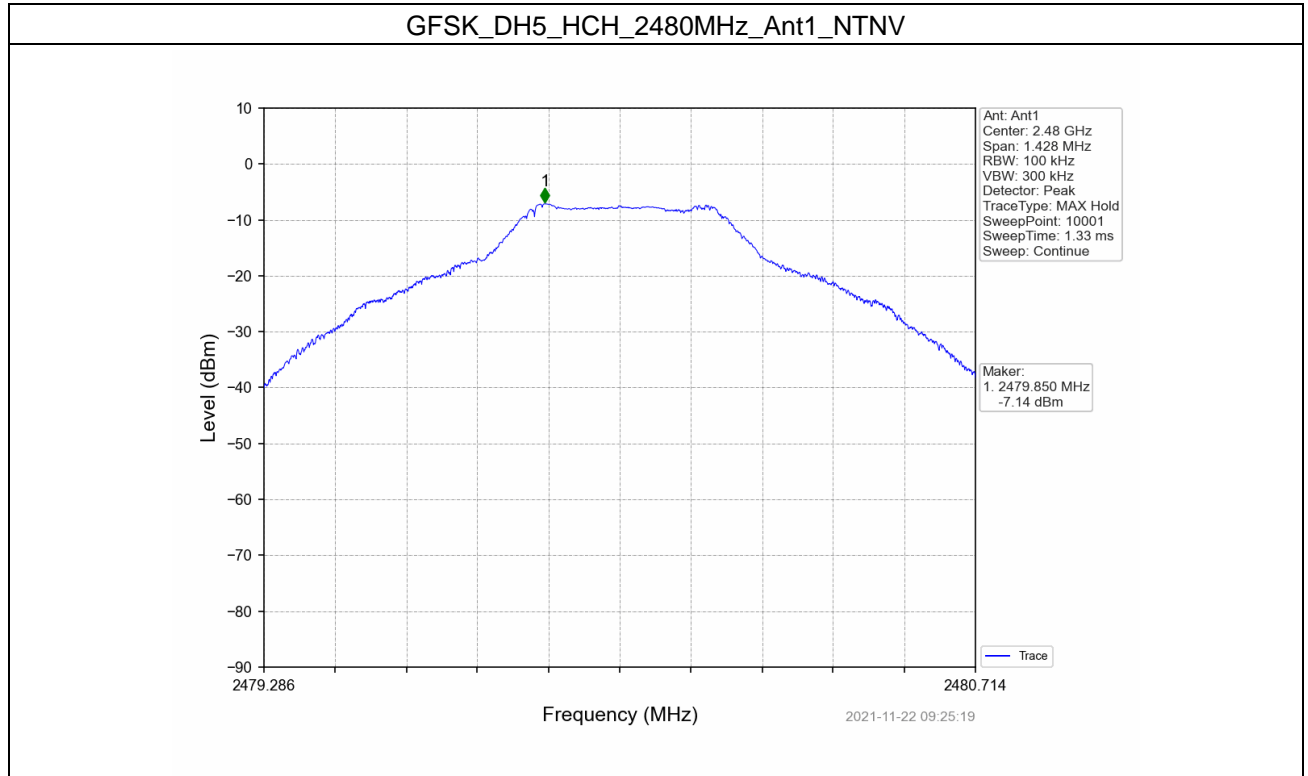
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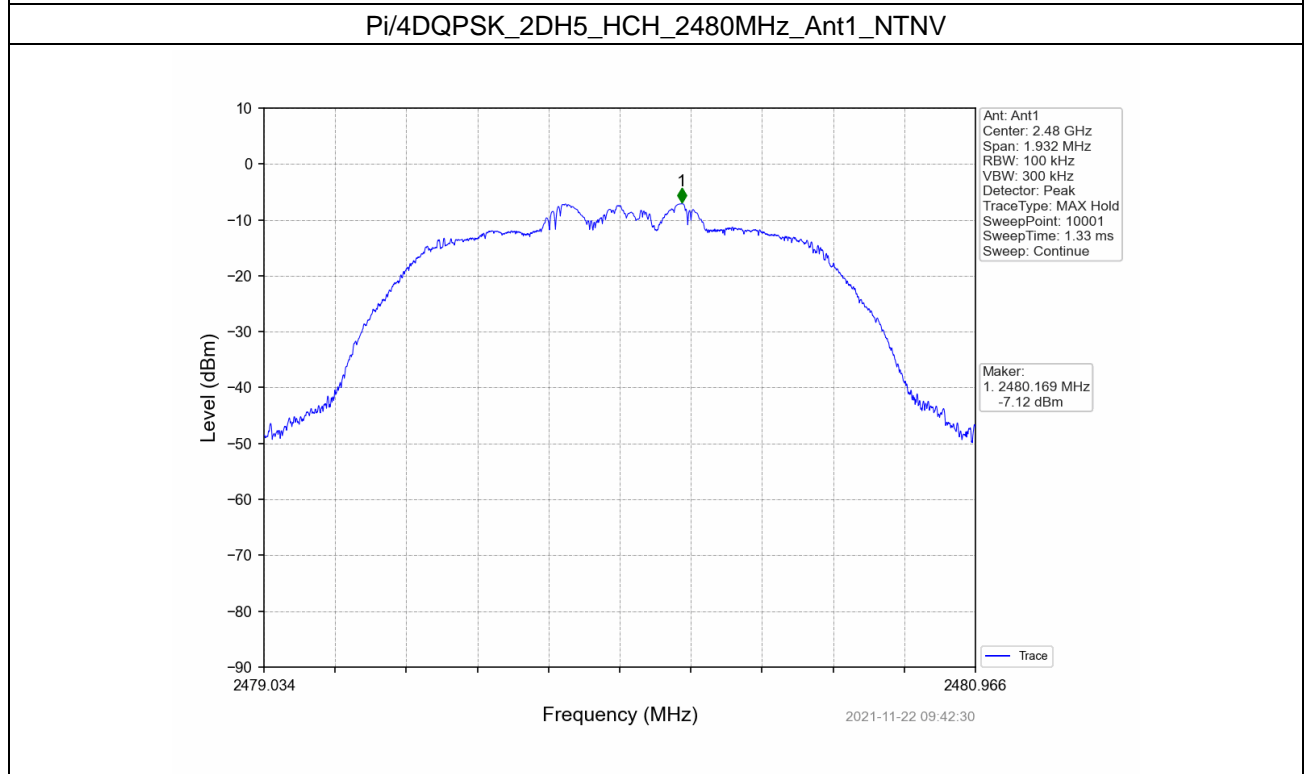
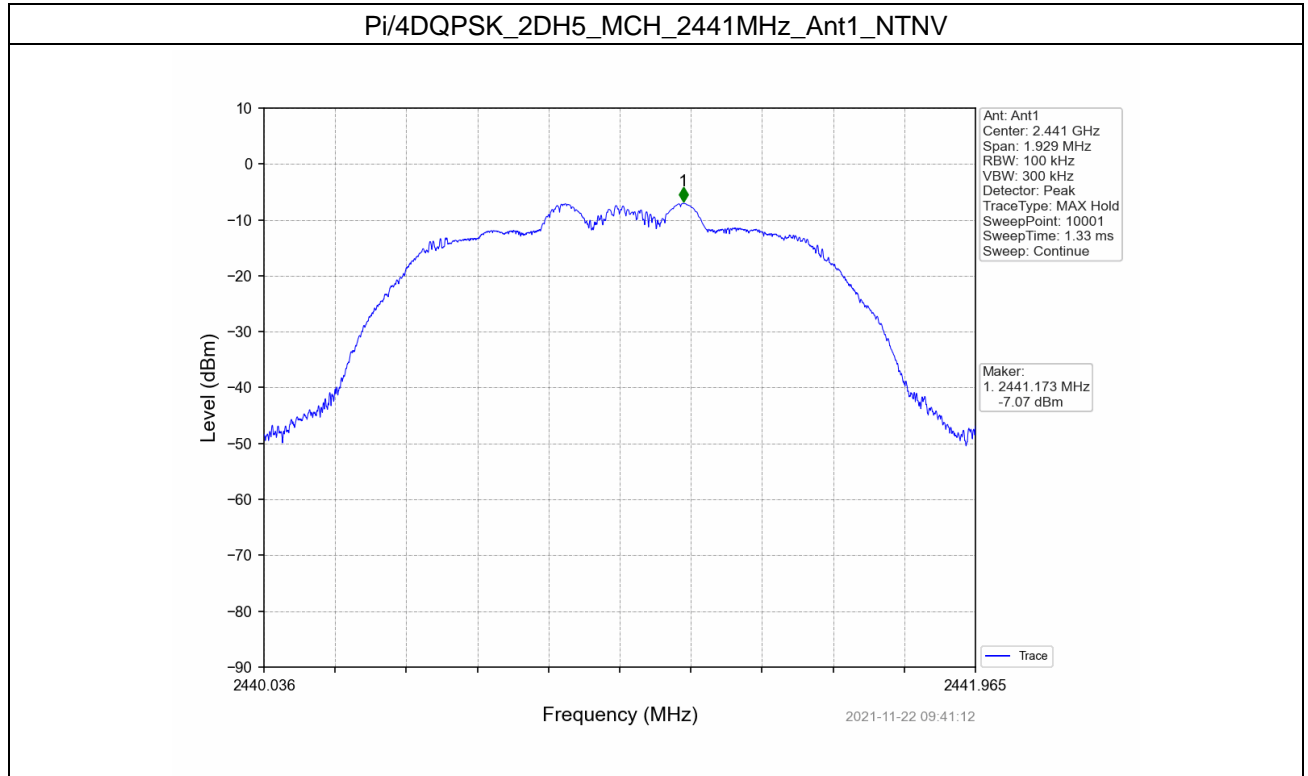
### 6.1.2 Test Graph



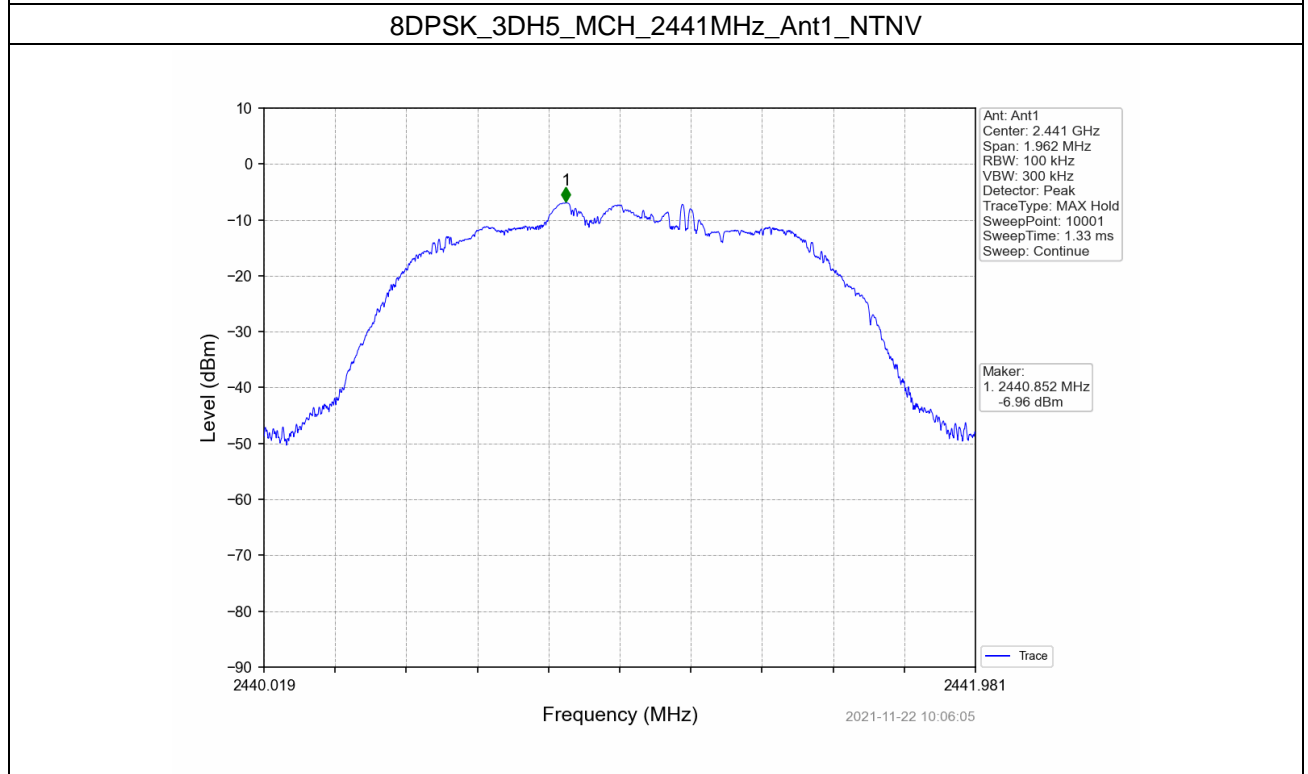
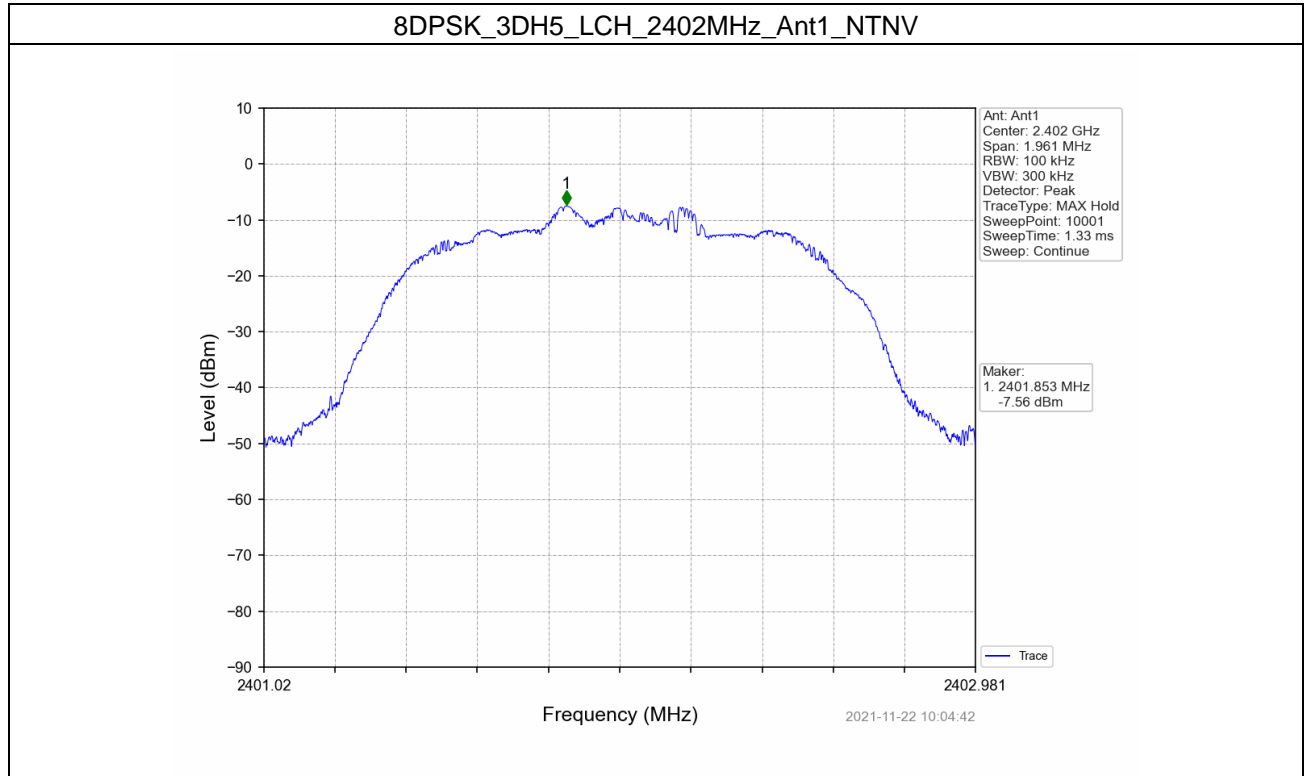
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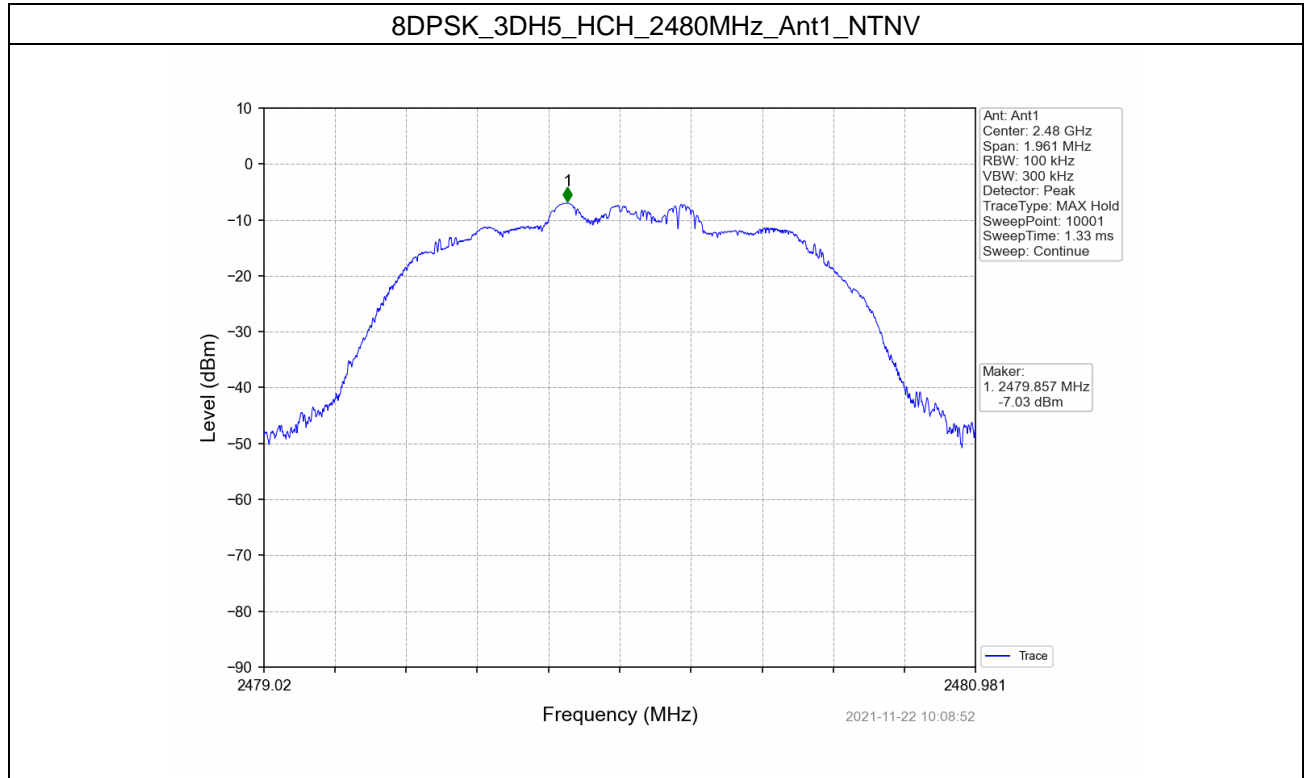


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## 6.2 CSE

### 6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-7.08	-27.08	Pass
		2441	DH5	1	-7.08	-27.08	Pass
		2480	DH5	1	-7.08	-27.08	Pass
		HOPP	DH5	1	-7.08	-27.08	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-7.07	-27.07	Pass
		2441	2DH5	1	-7.07	-27.07	Pass
		2480	2DH5	1	-7.07	-27.07	Pass
		HOPP	2DH5	1	-7.07	-27.07	Pass
8DPSK	SISO	2402	3DH5	1	-6.96	-26.96	Pass
		2441	3DH5	1	-6.96	-26.96	Pass
		2480	3DH5	1	-6.96	-26.96	Pass
		HOPP	3DH5	1	-6.96	-26.96	Pass

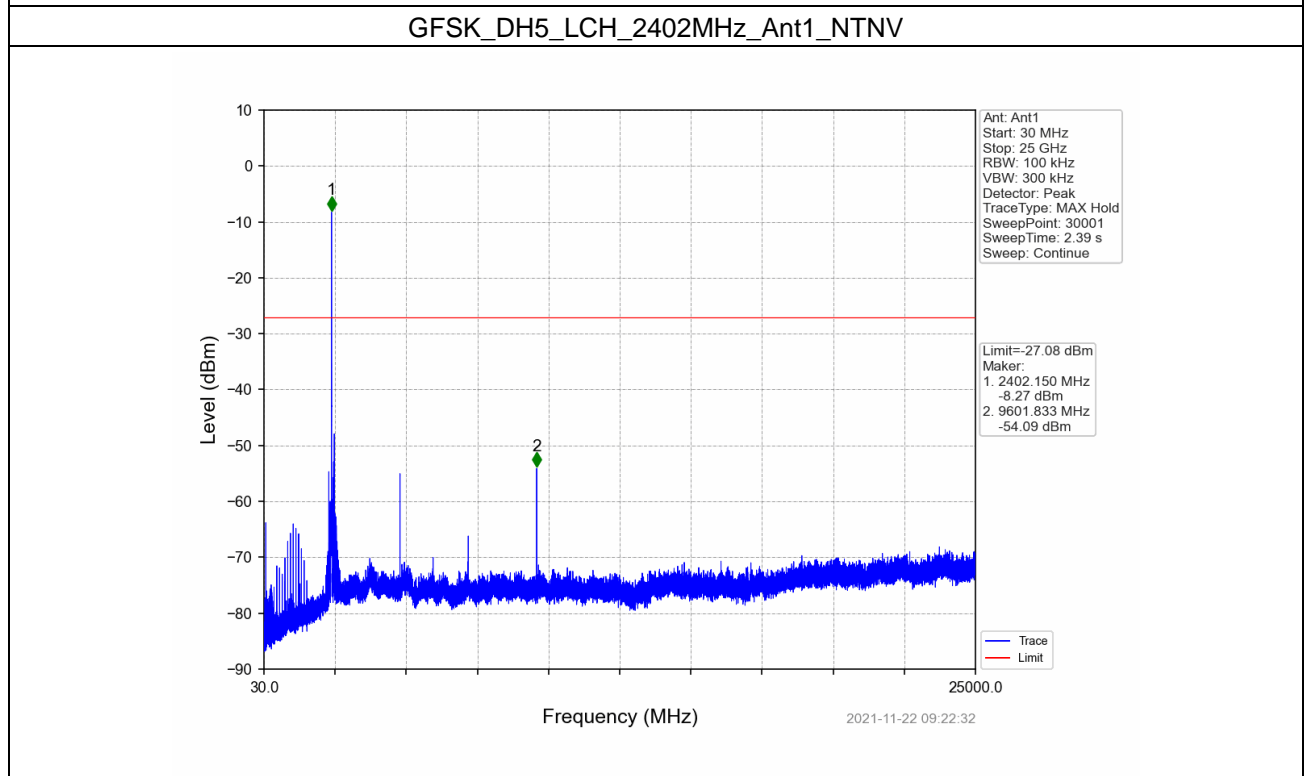
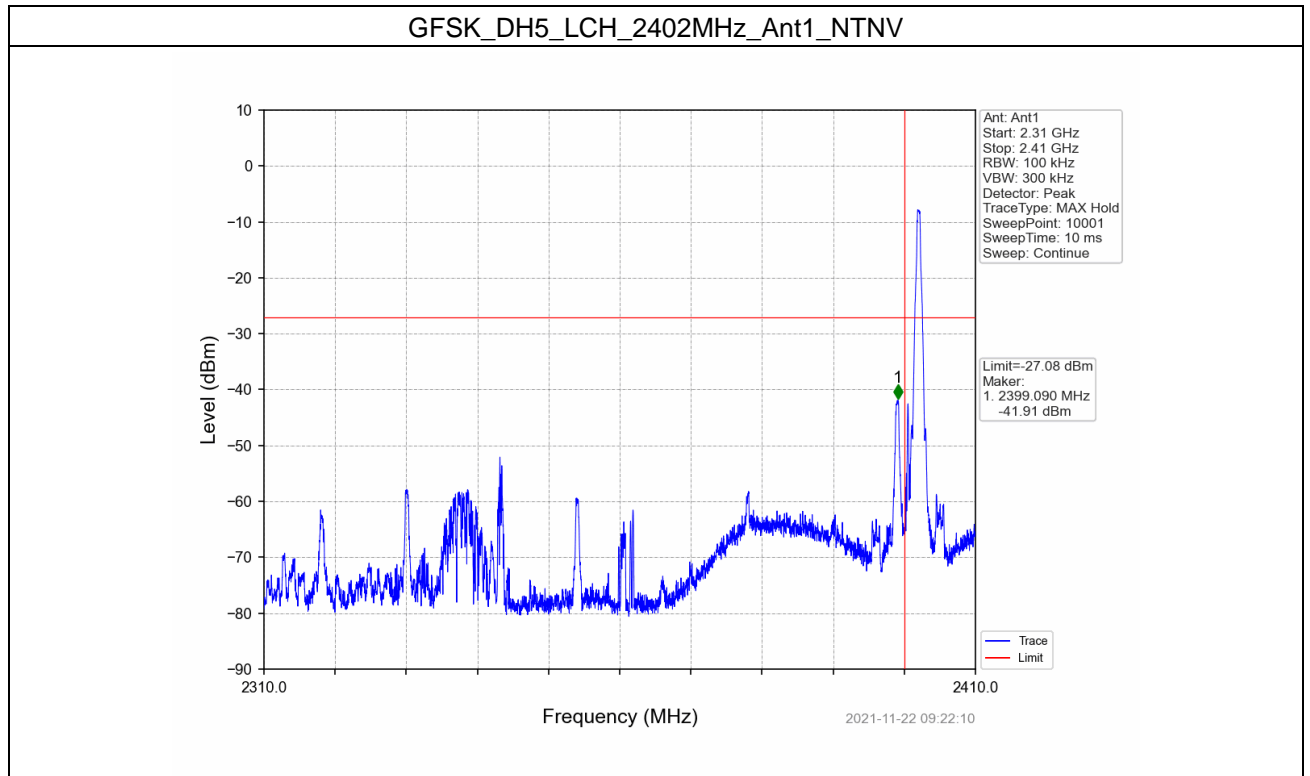
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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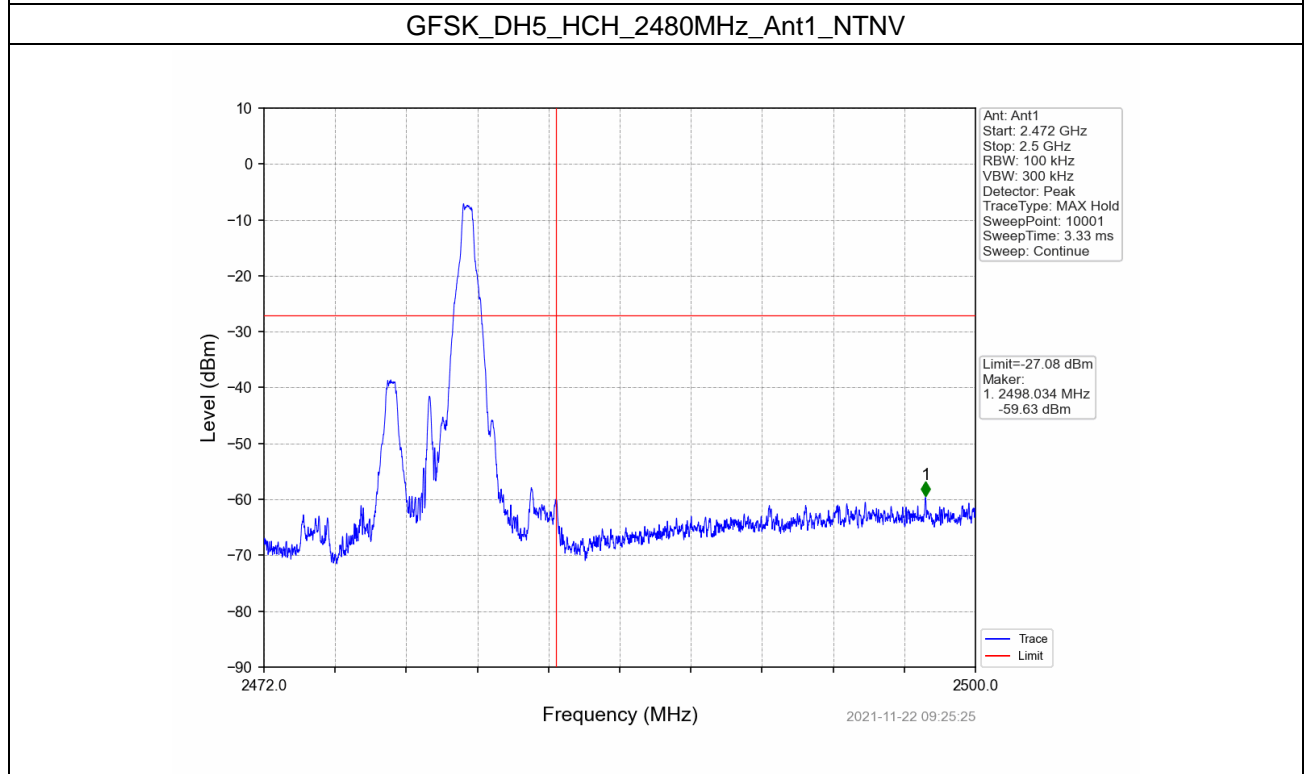
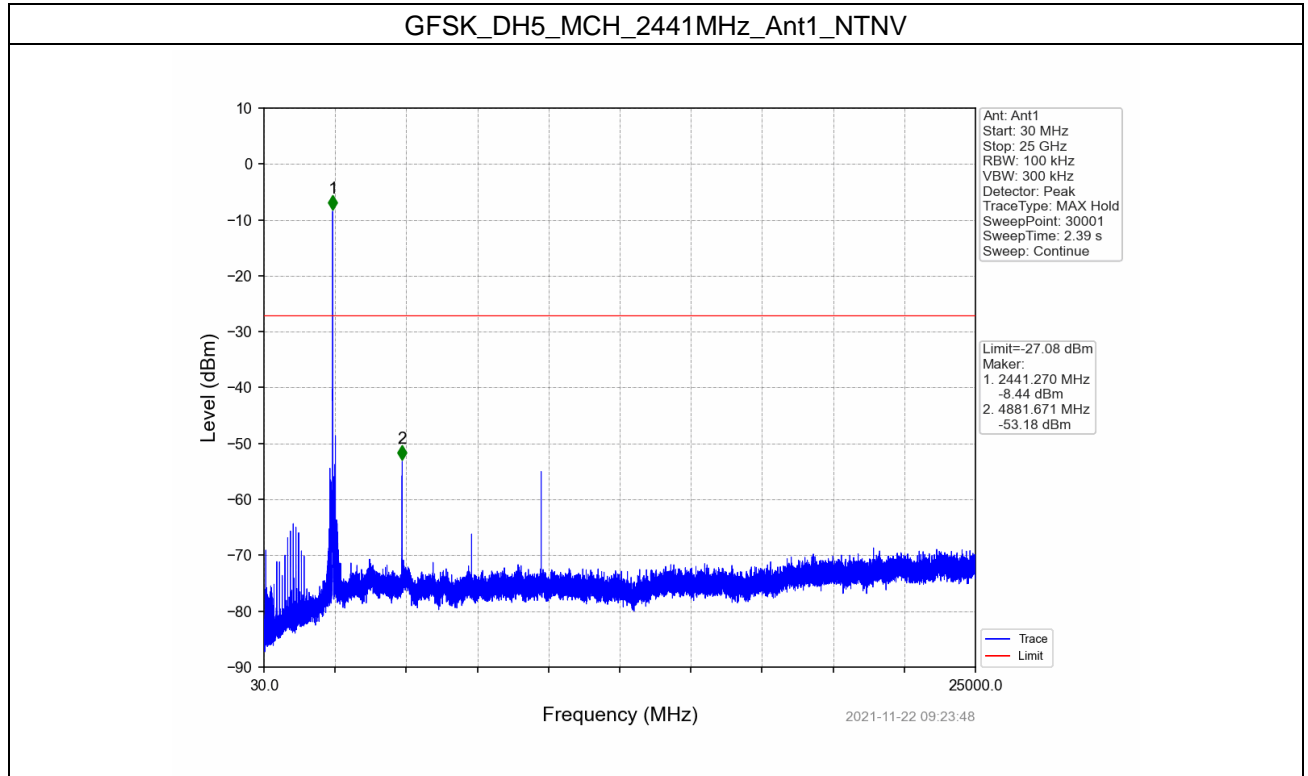
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### 6.2.2 Test Graph

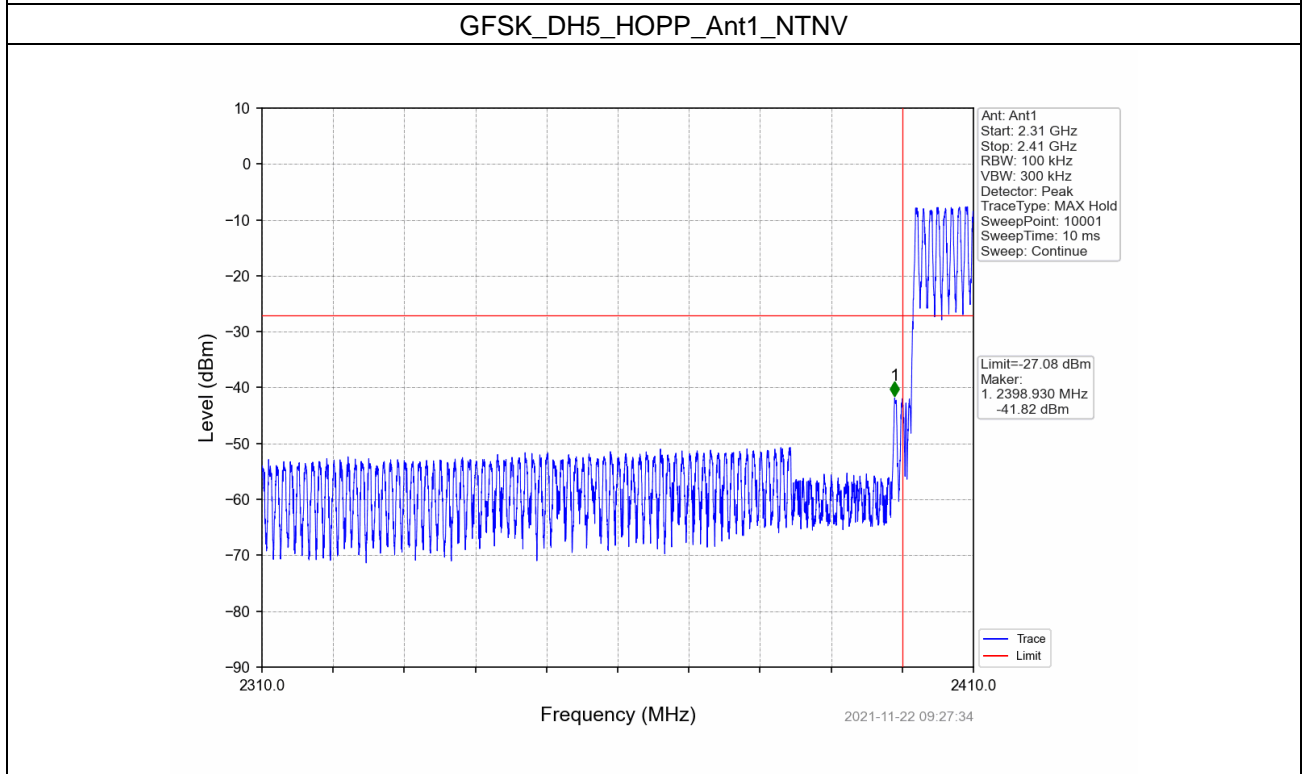
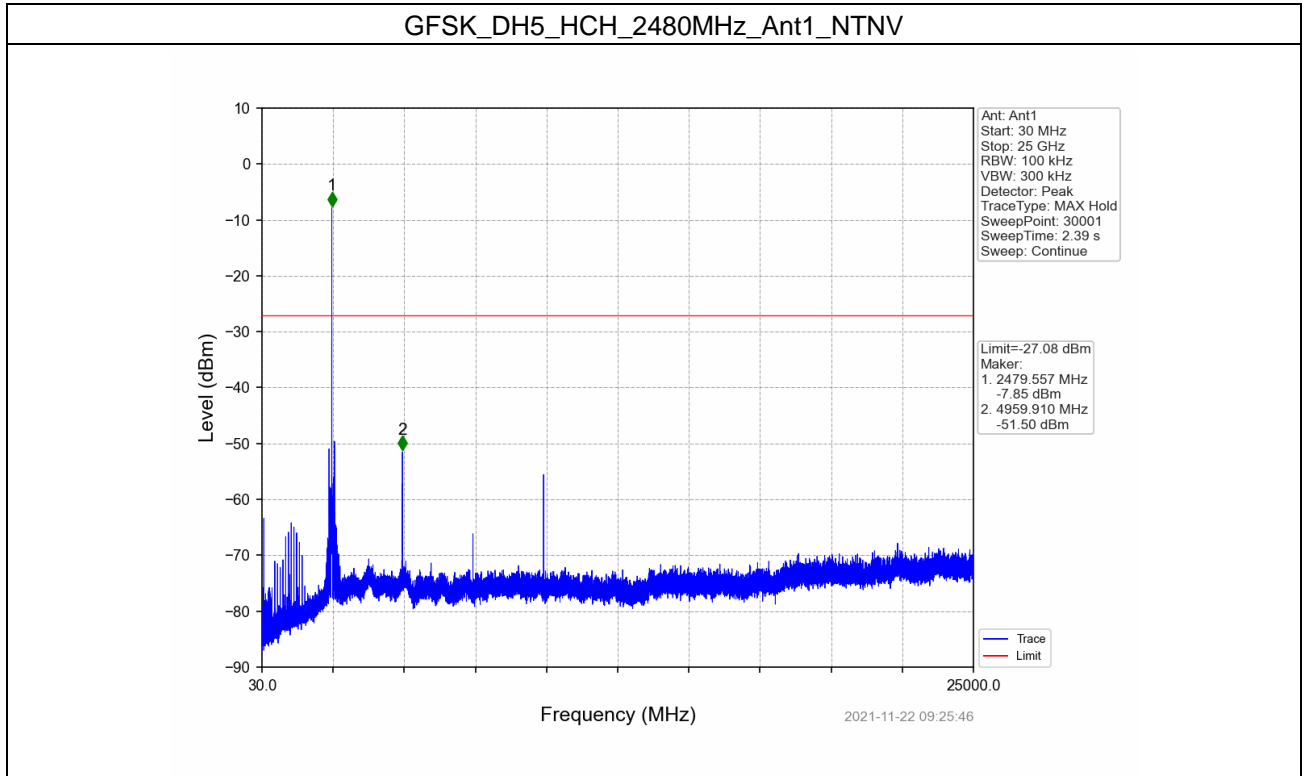


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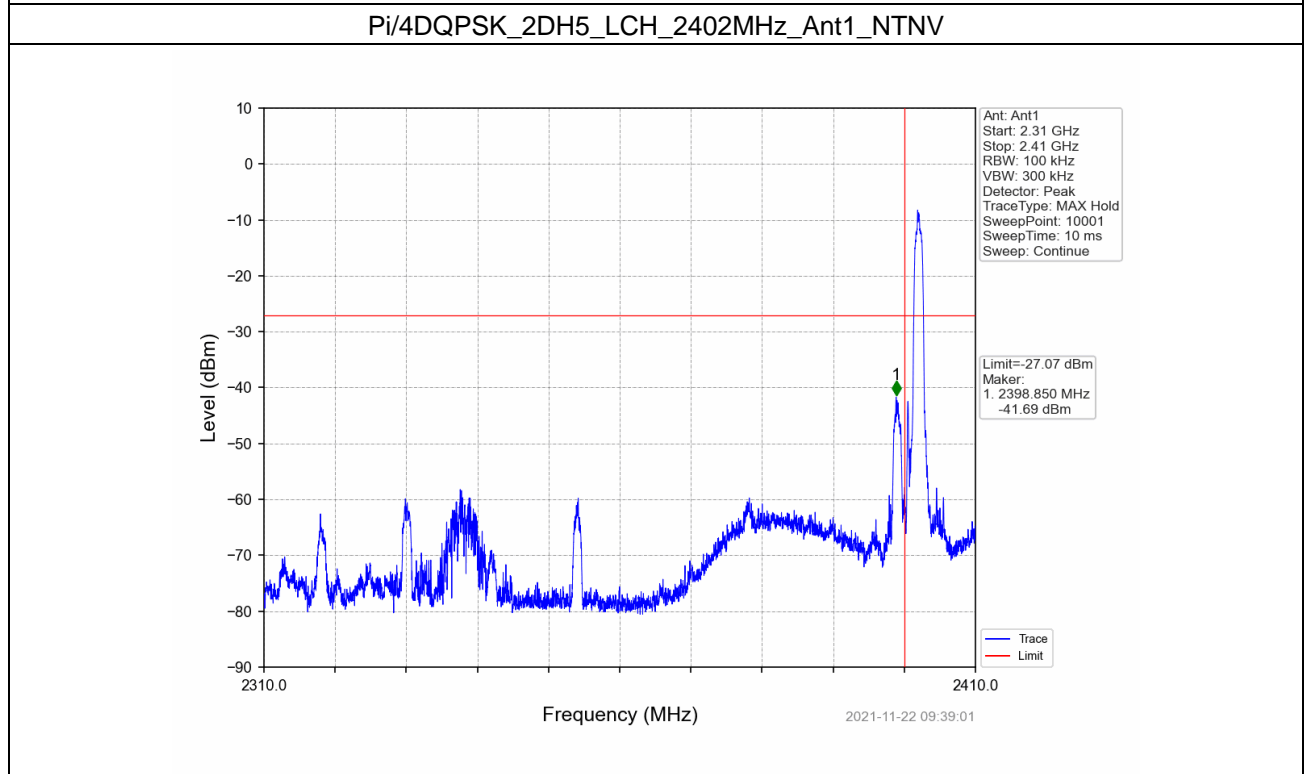
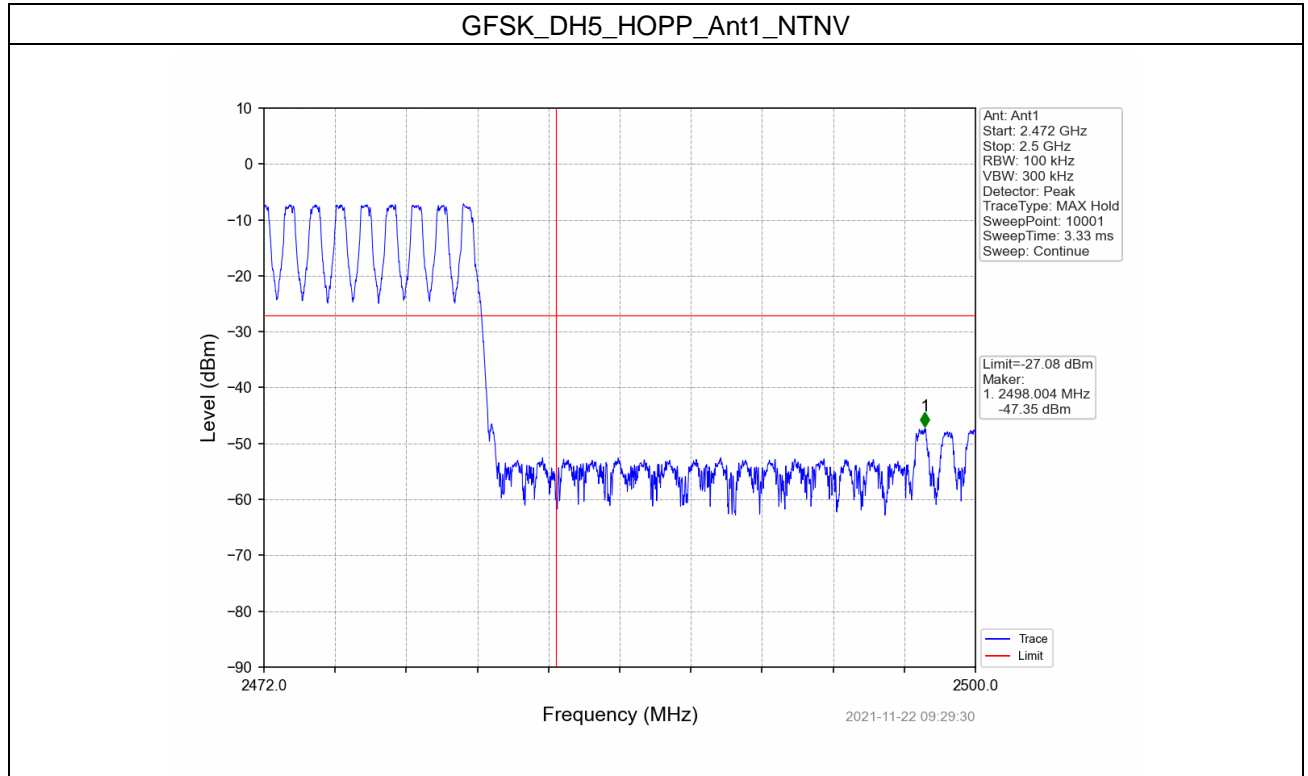
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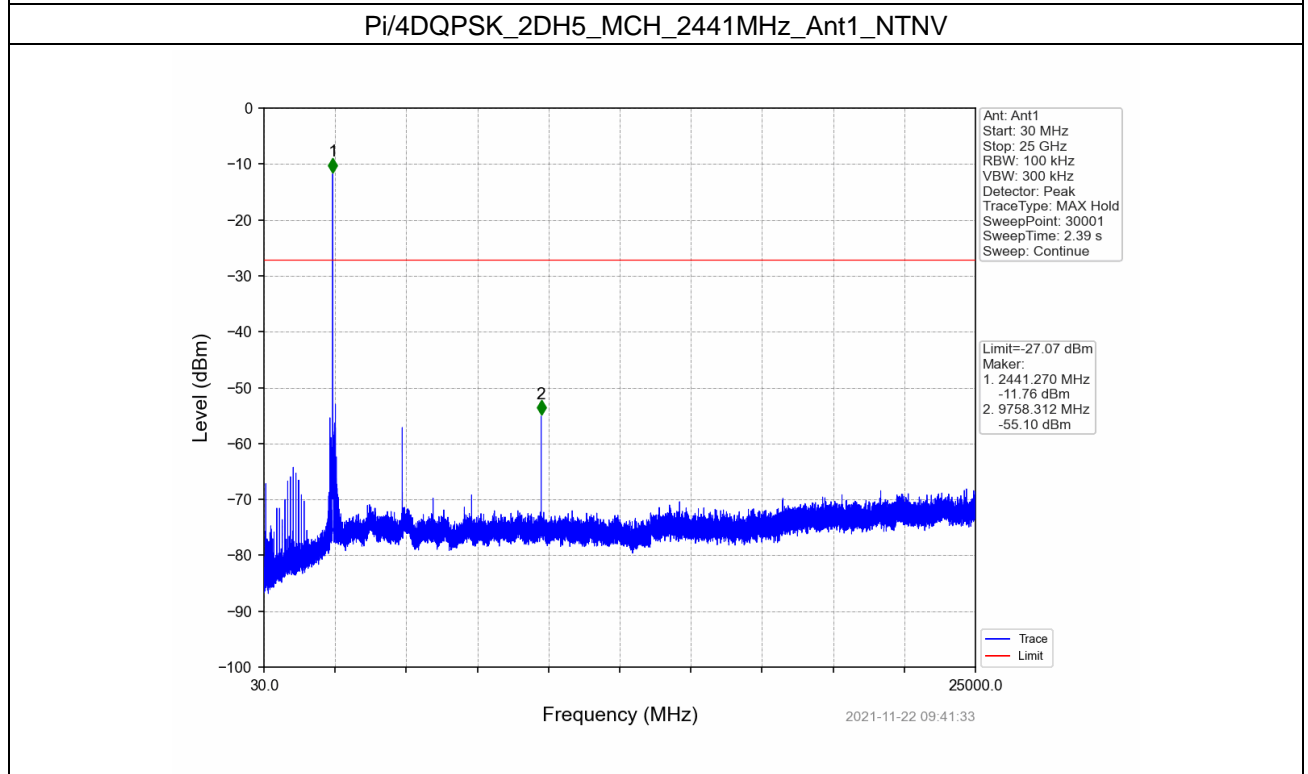
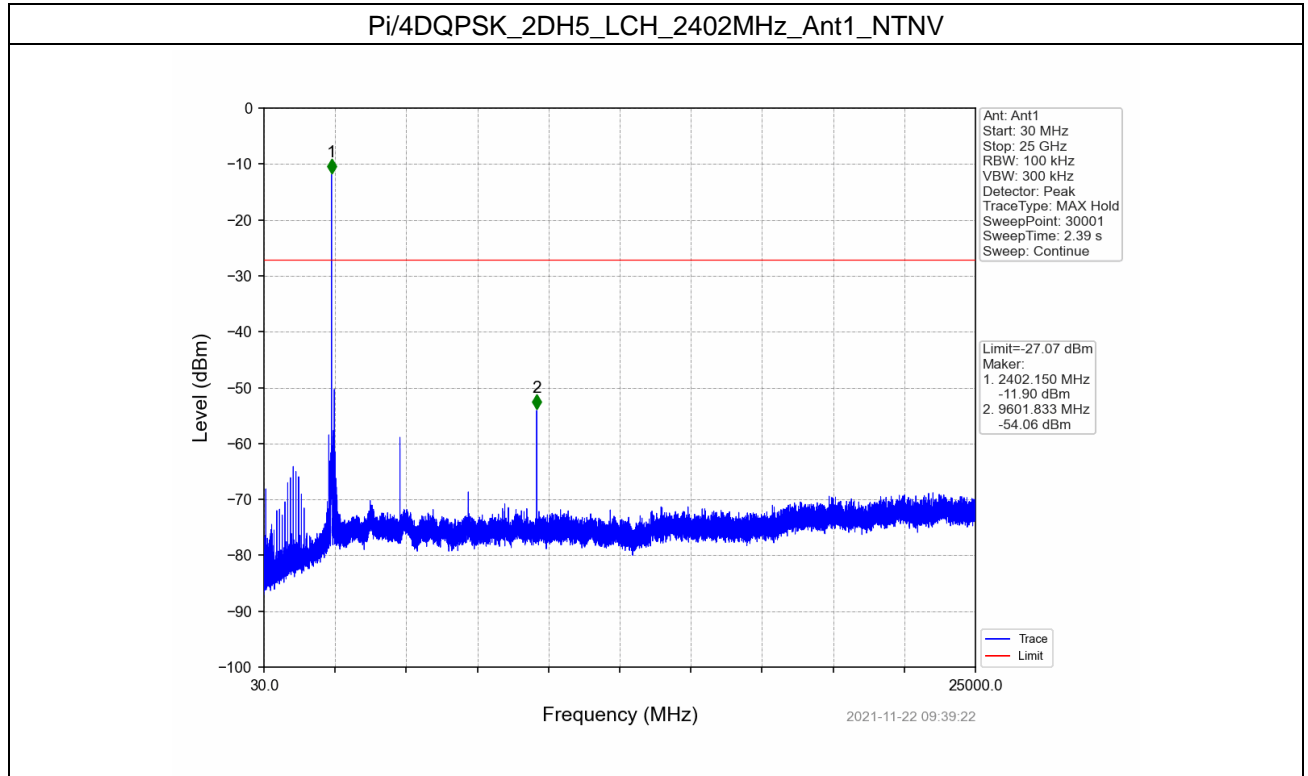
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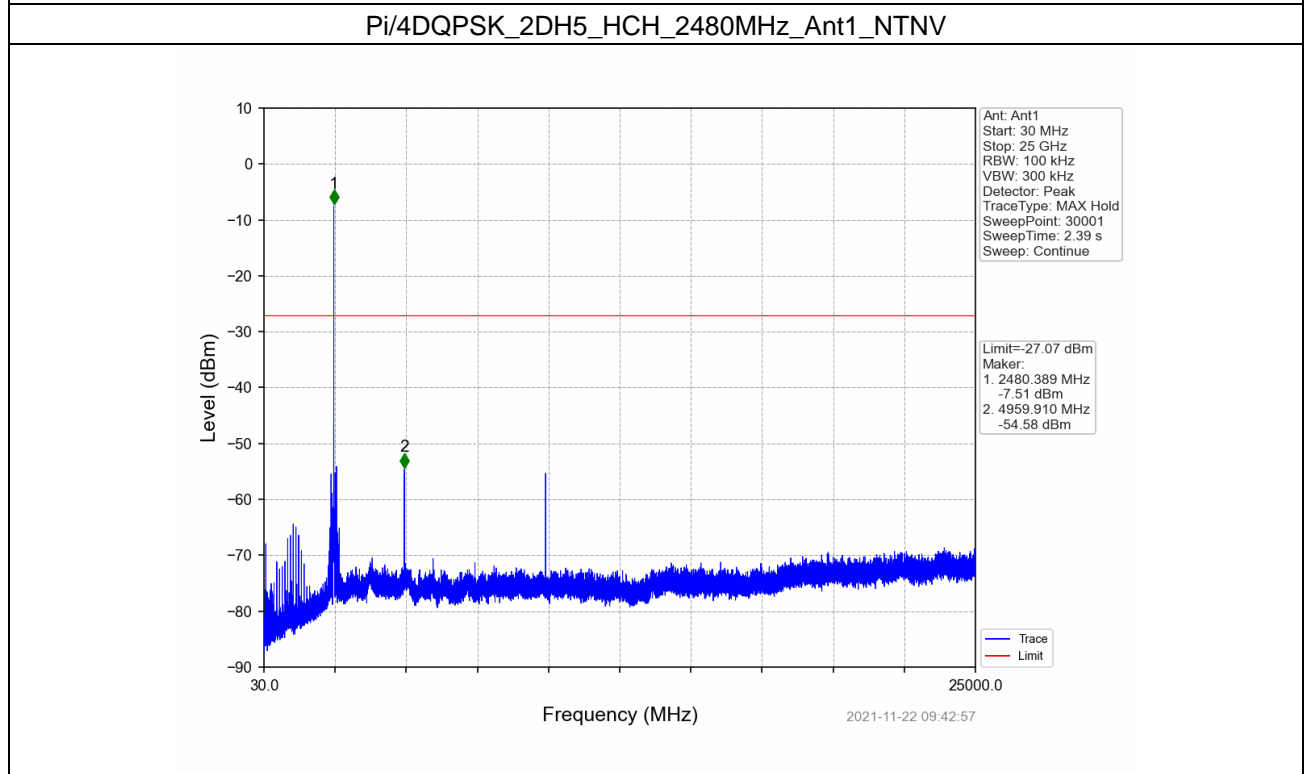
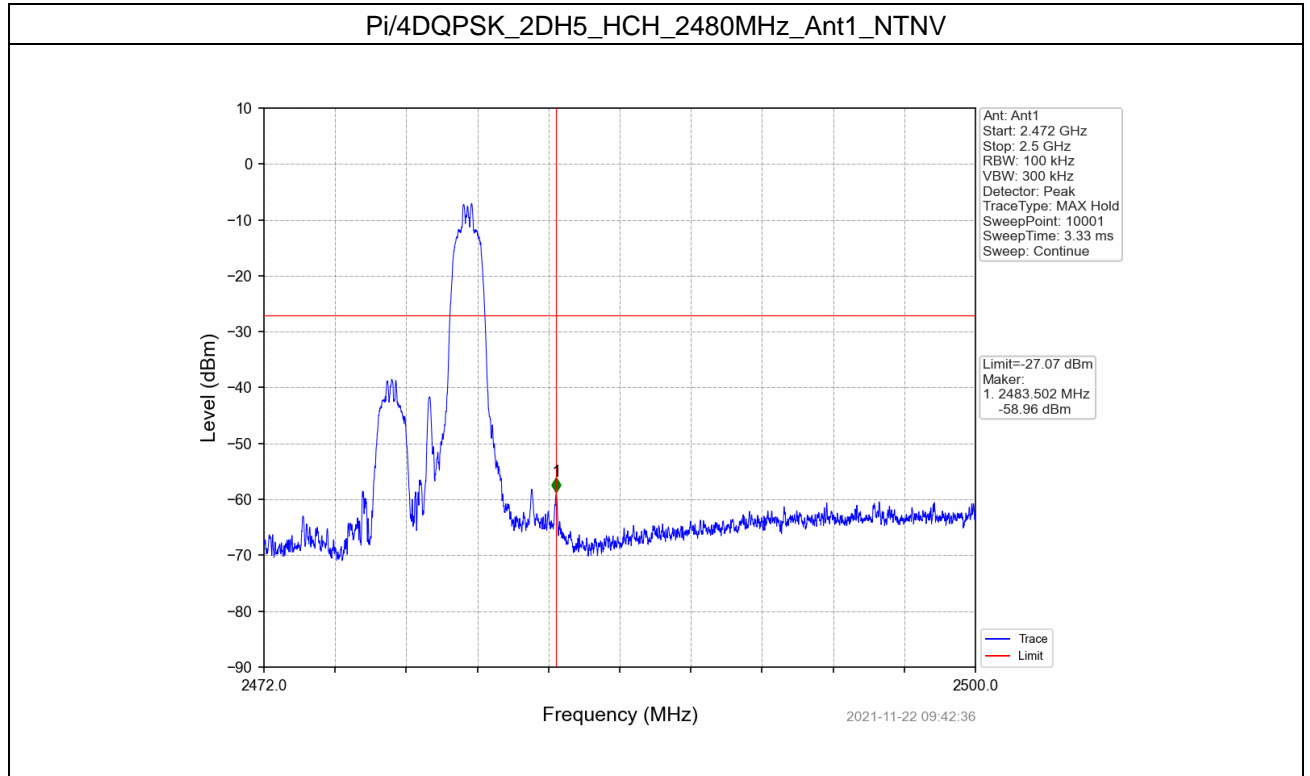
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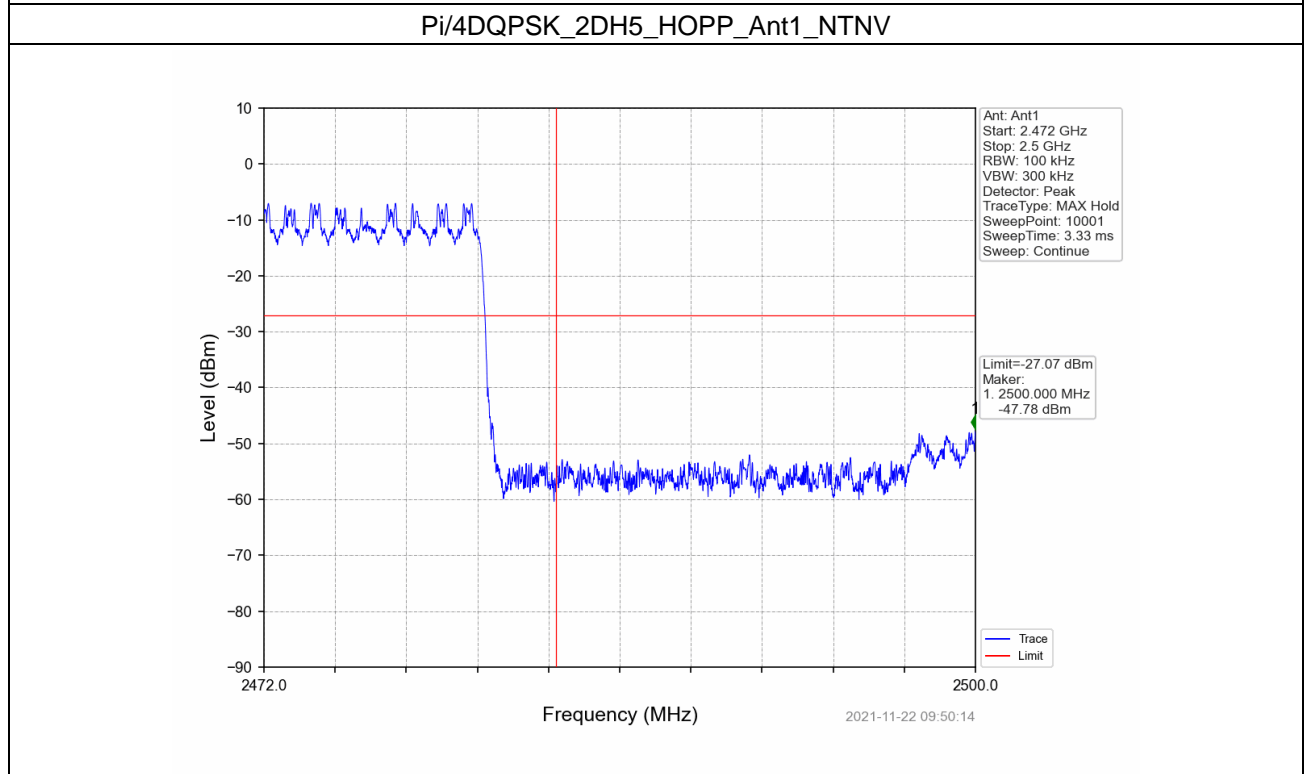
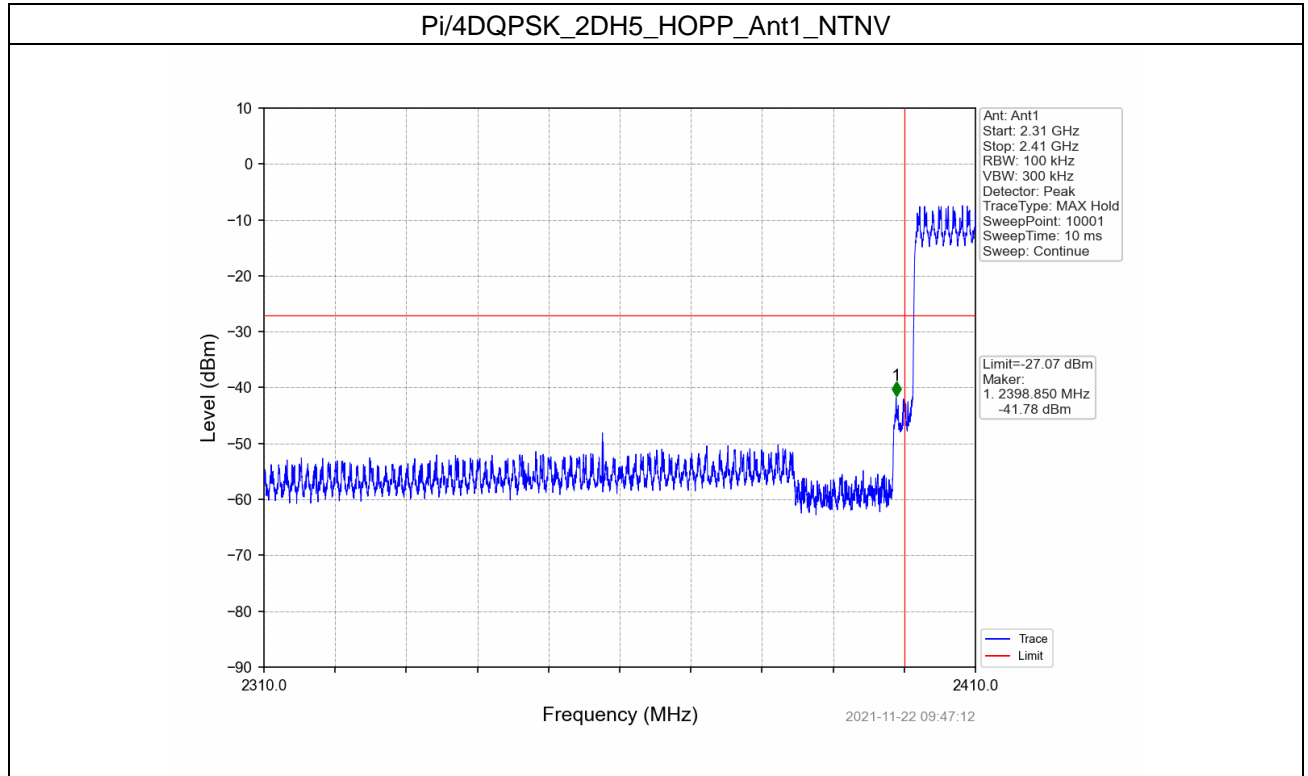
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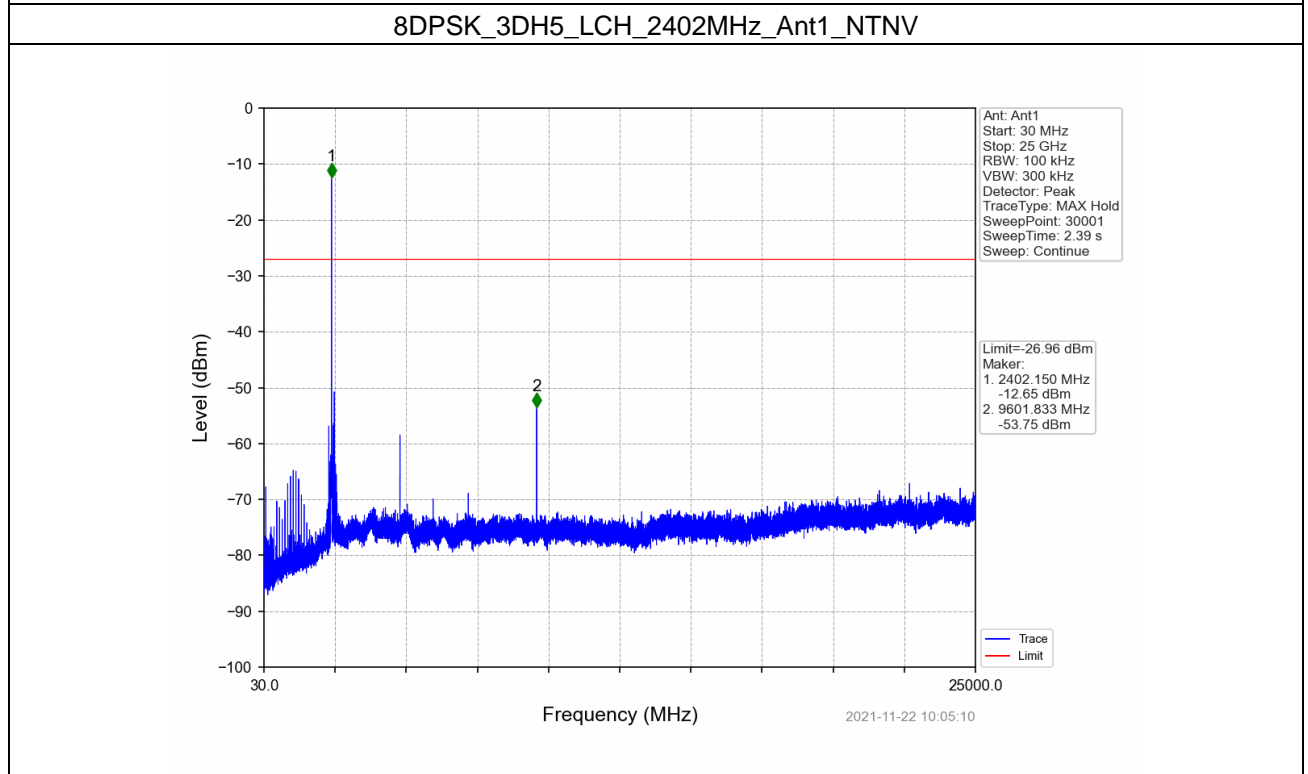
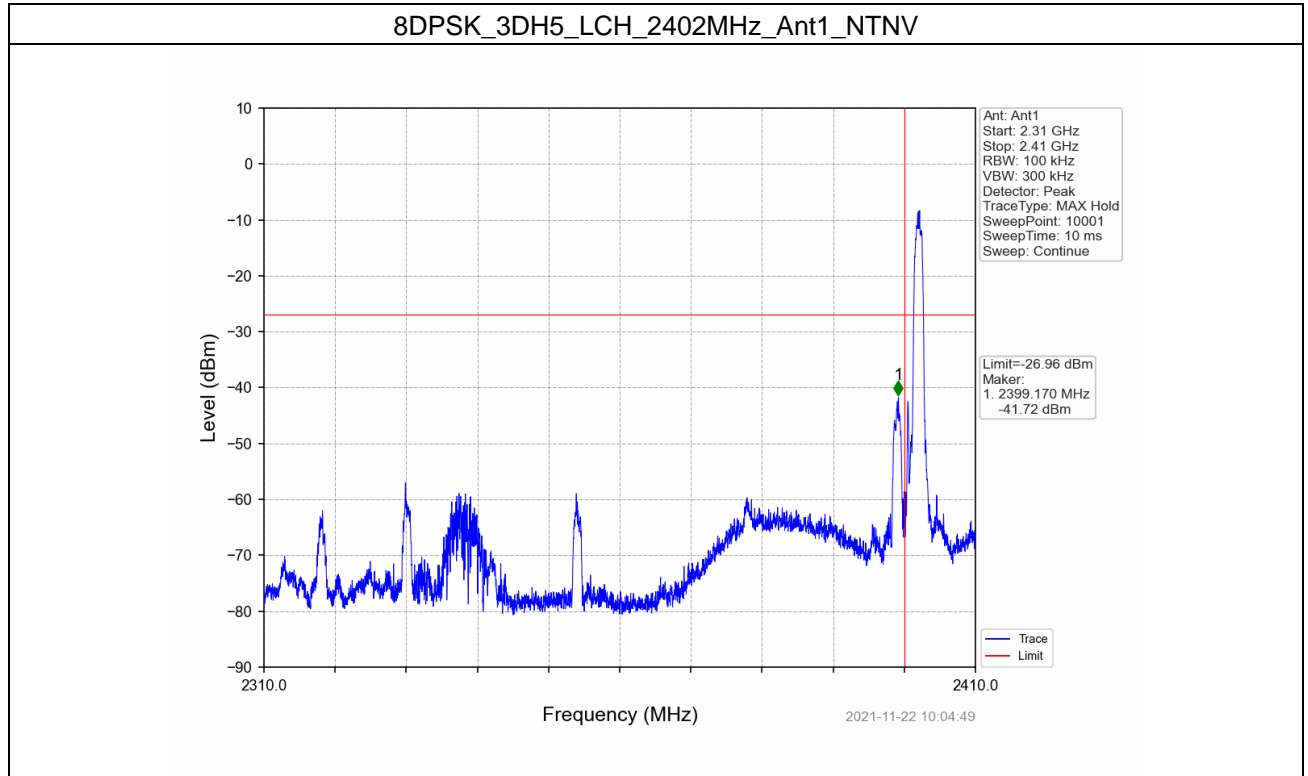
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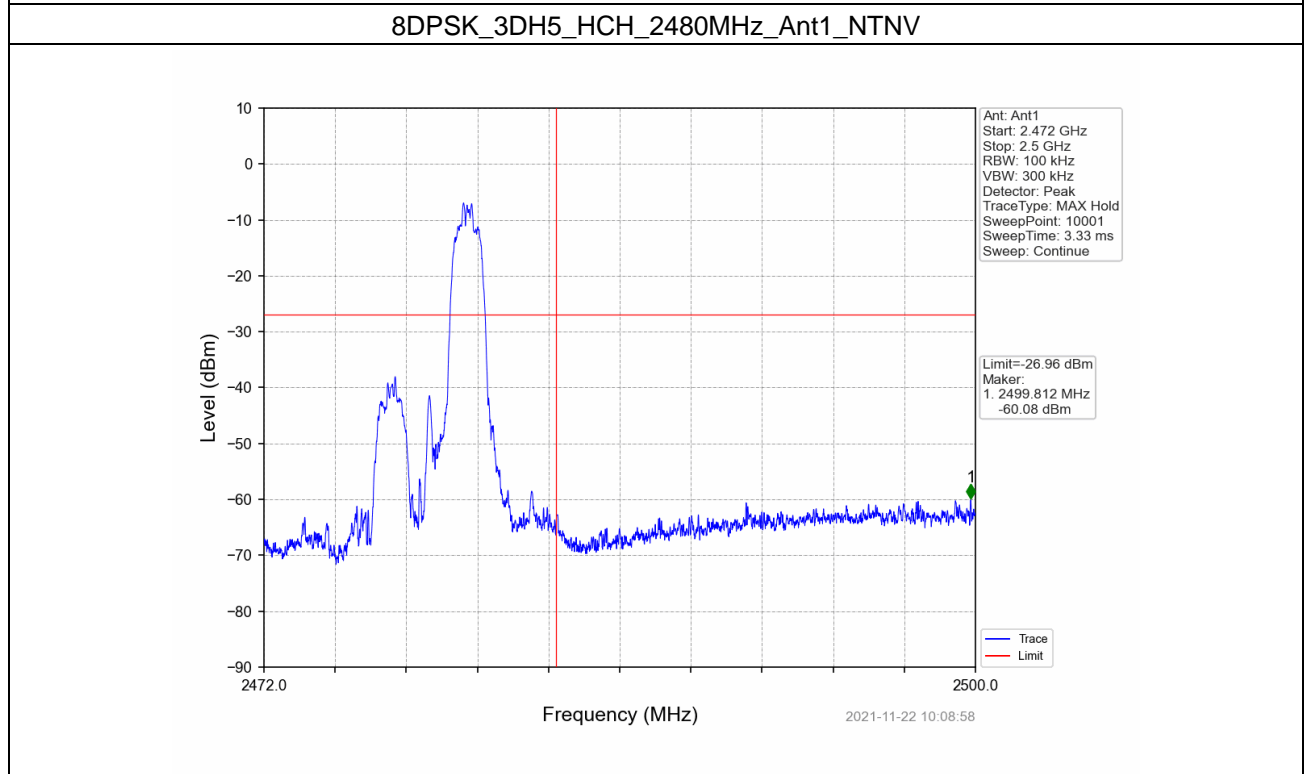
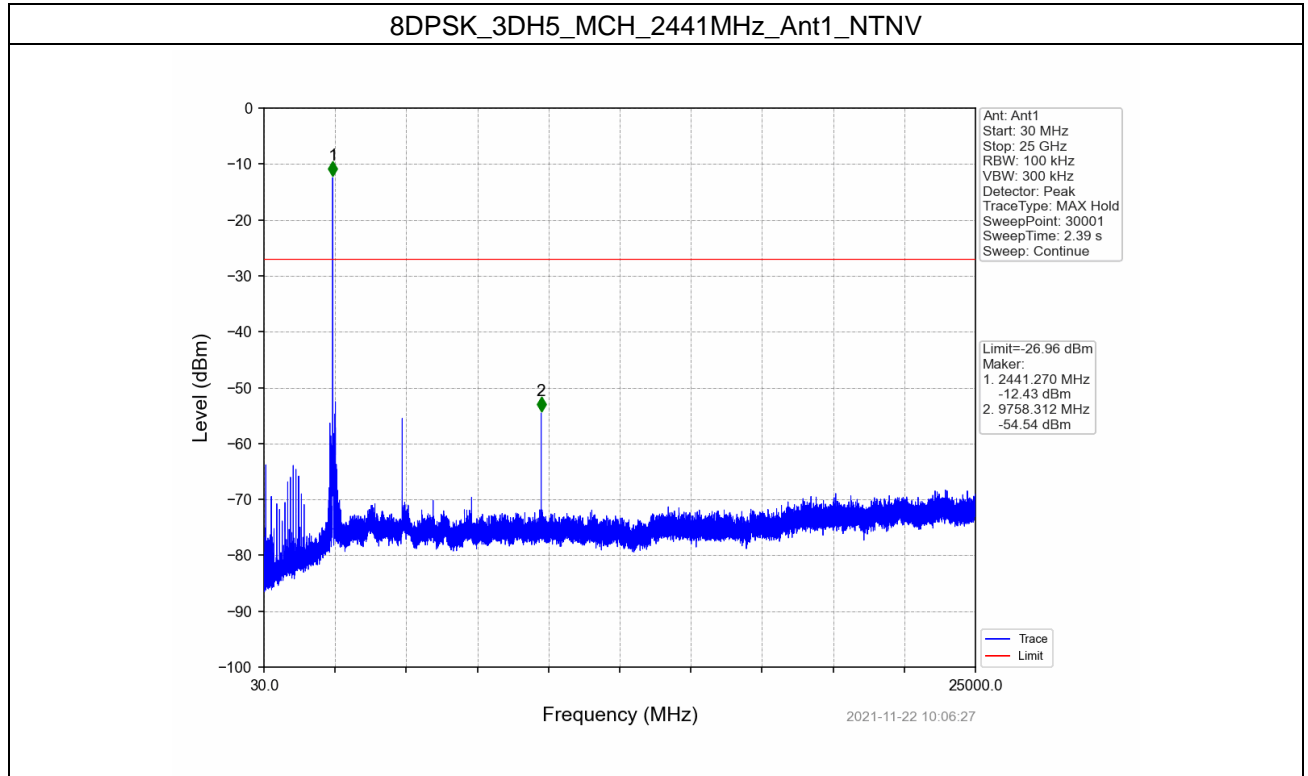
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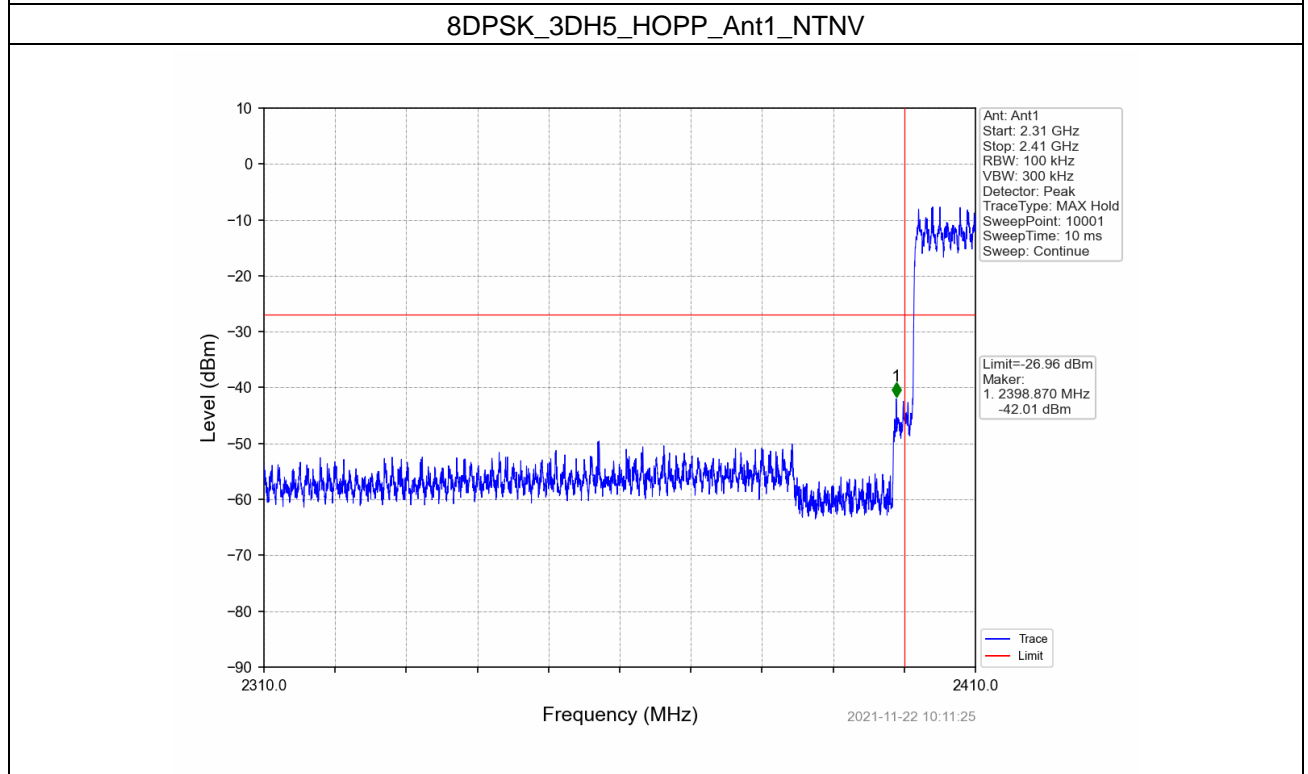
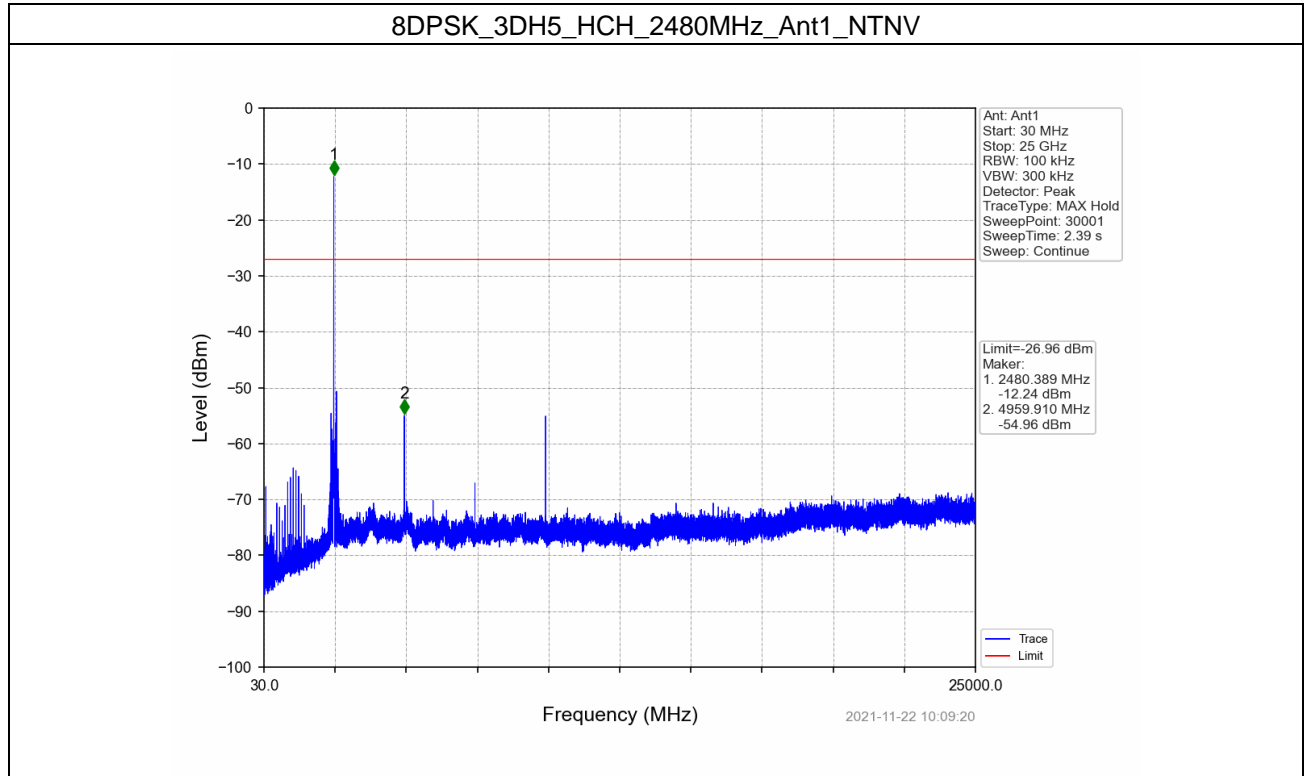
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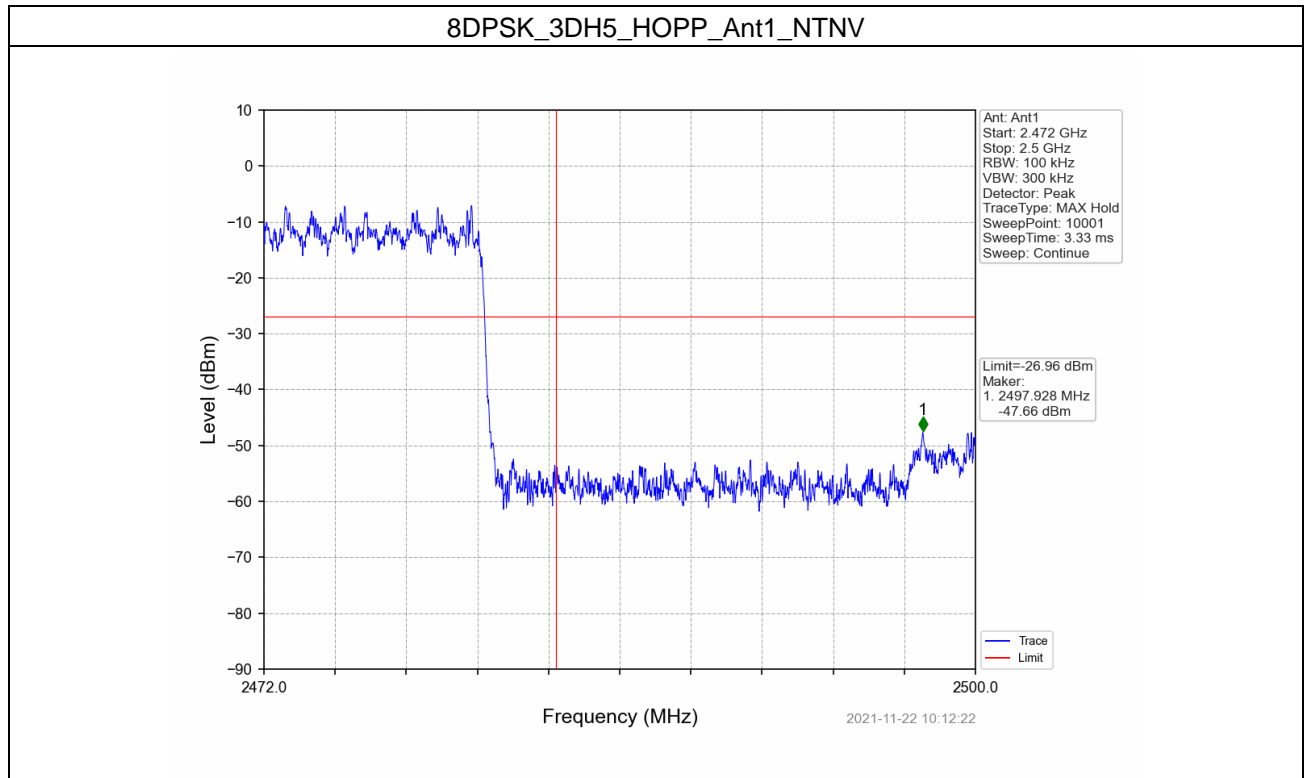




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