



Annex for BT

Test Report No.: CTL2403277021-WF

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6.2 CSE 43

6.2.1 Test Result 43

FCCID: 2AC9N-1686124

1. Bandwidth

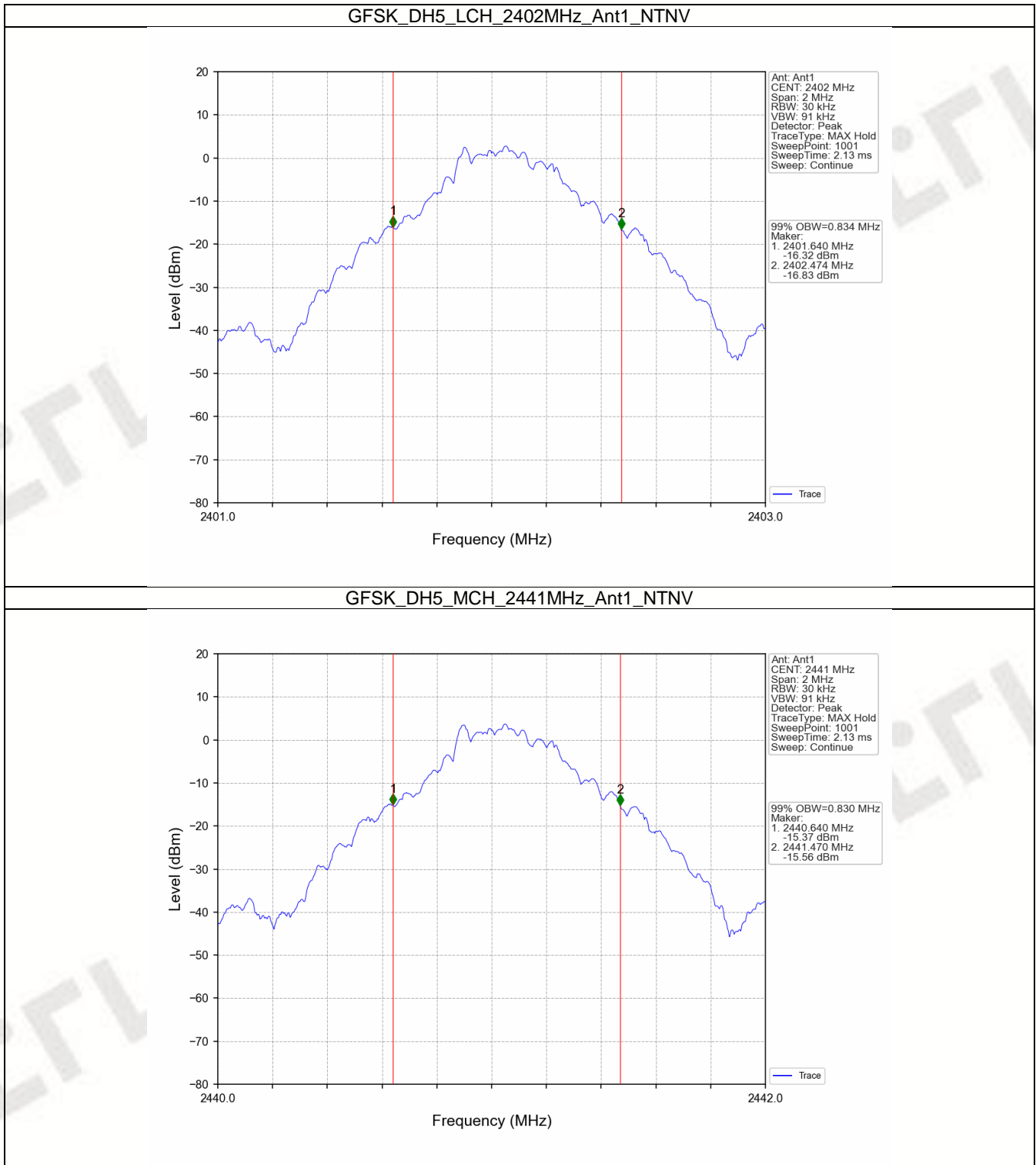
1.1 OBW

1.1.1 Test Result

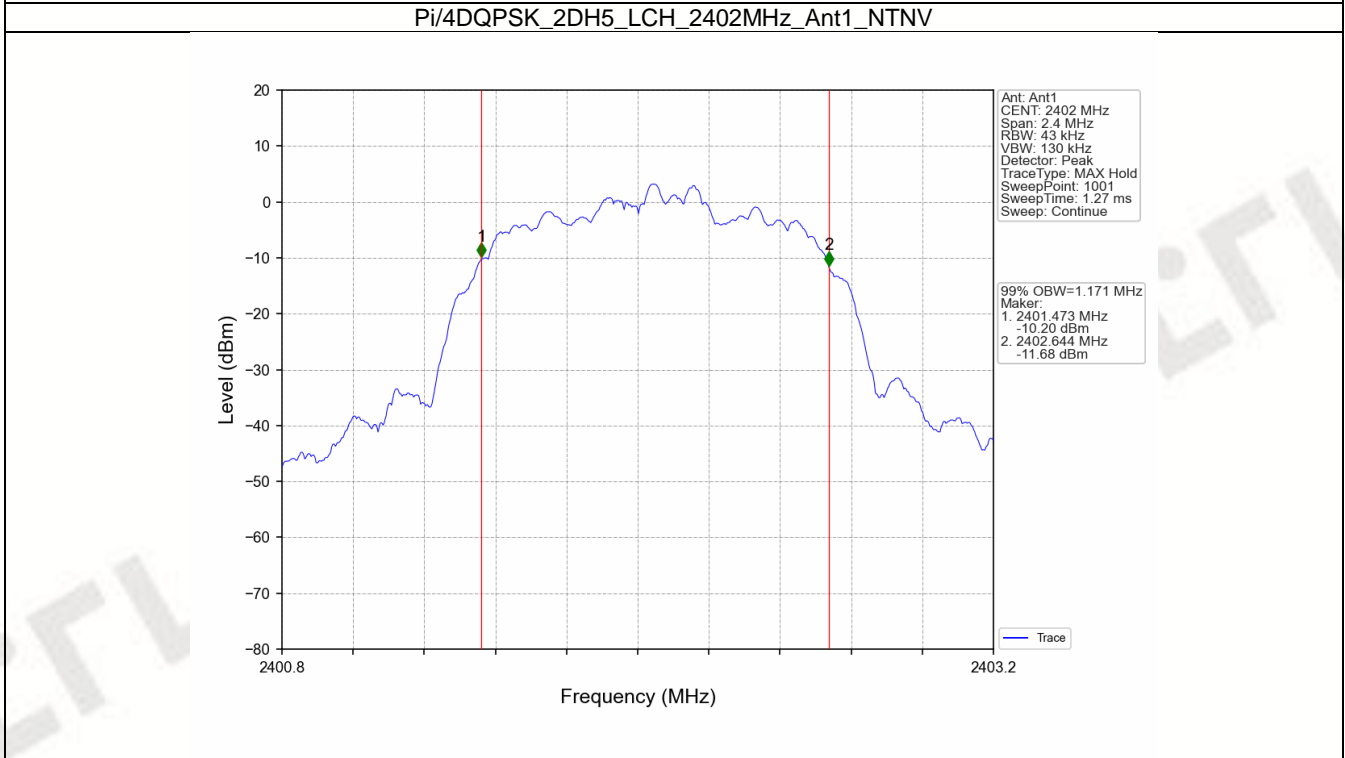
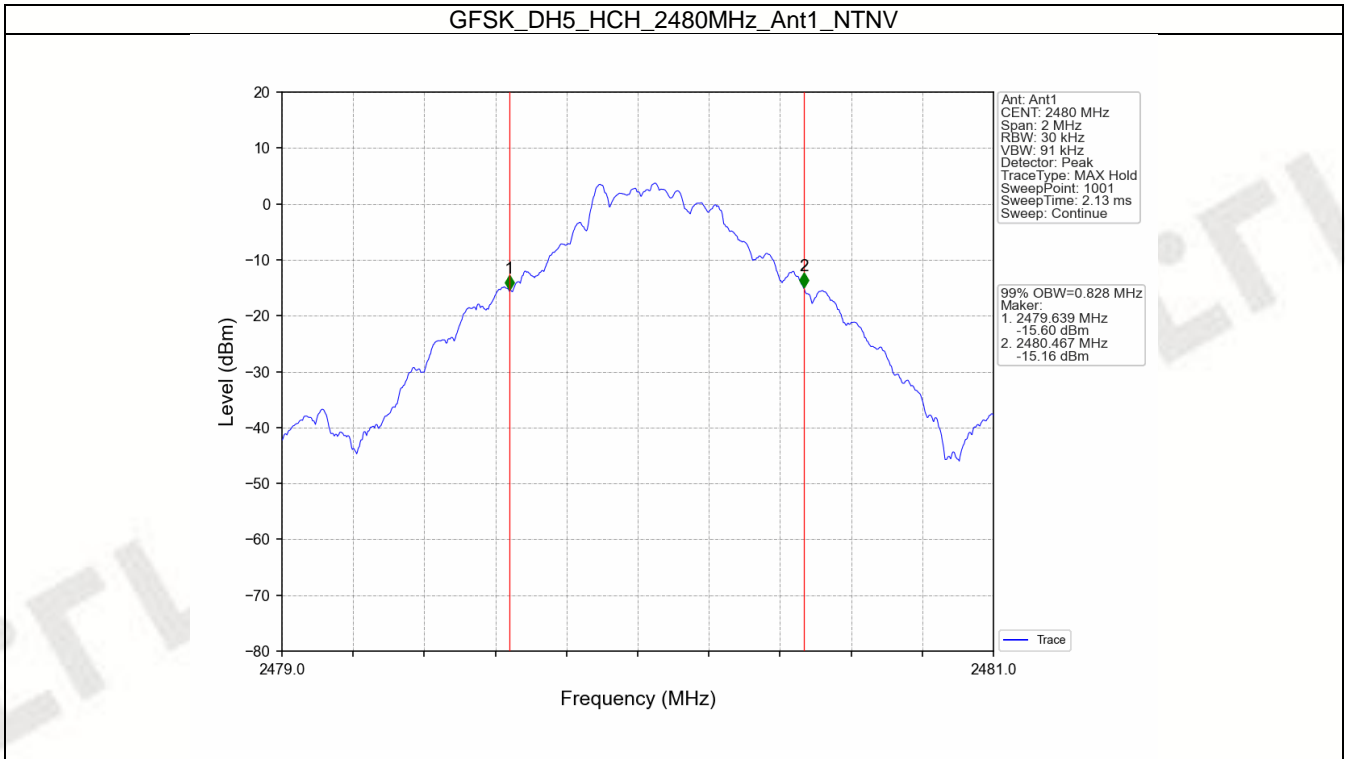
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.834	/	Pass
		2441	DH5	1	0.830	/	Pass
		2480	DH5	1	0.828	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.171	/	Pass
		2441	2DH5	1	1.174	/	Pass
		2480	2DH5	1	1.172	/	Pass
8DPSK	SISO	2402	3DH5	1	1.178	/	Pass
		2441	3DH5	1	1.177	/	Pass
		2480	3DH5	1	1.176	/	Pass

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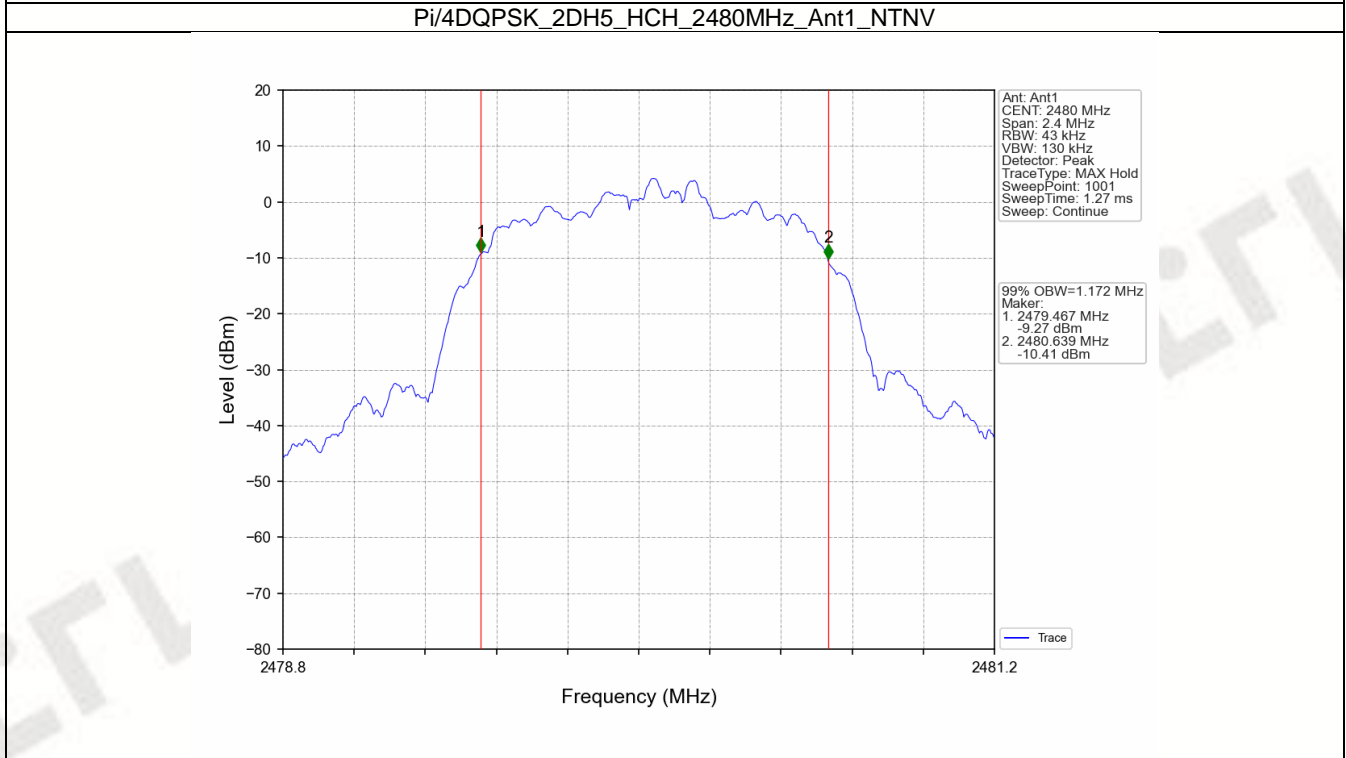
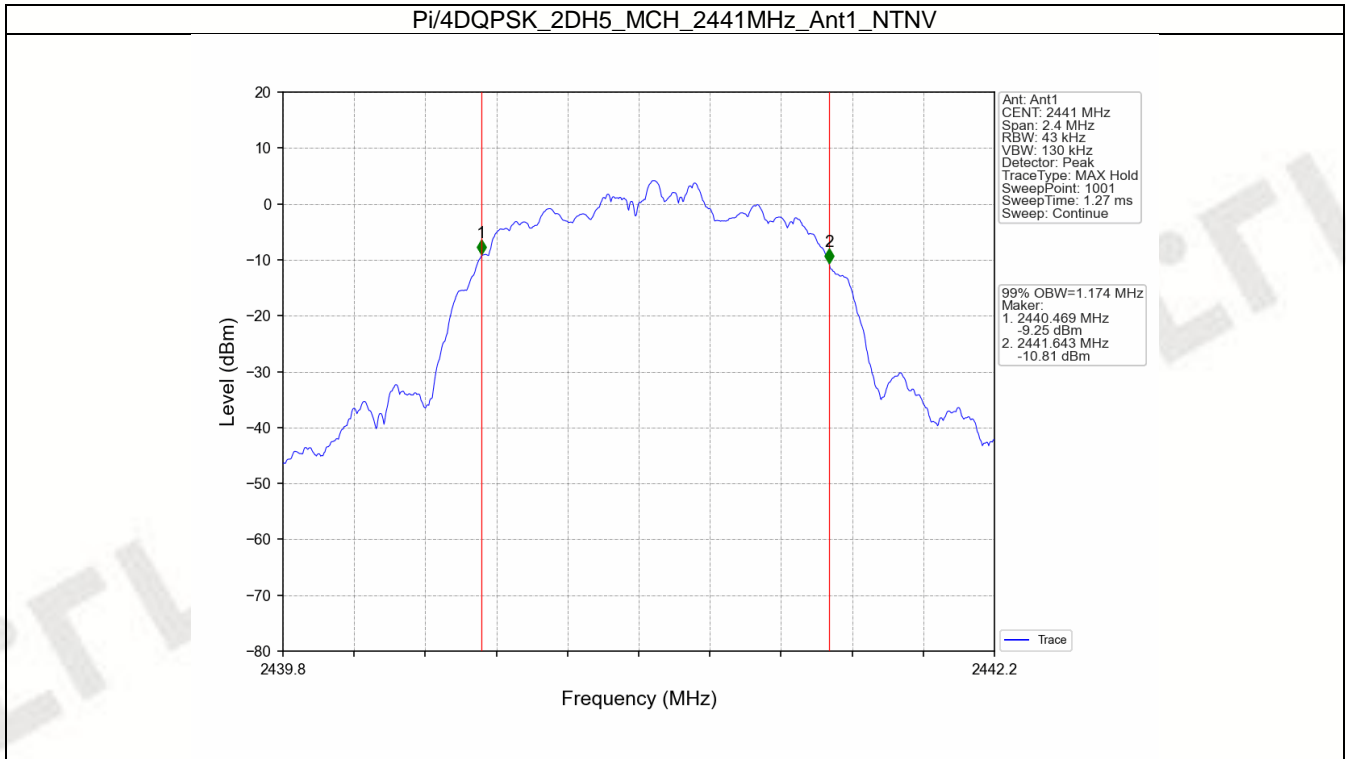
1.1.2 Test Graph



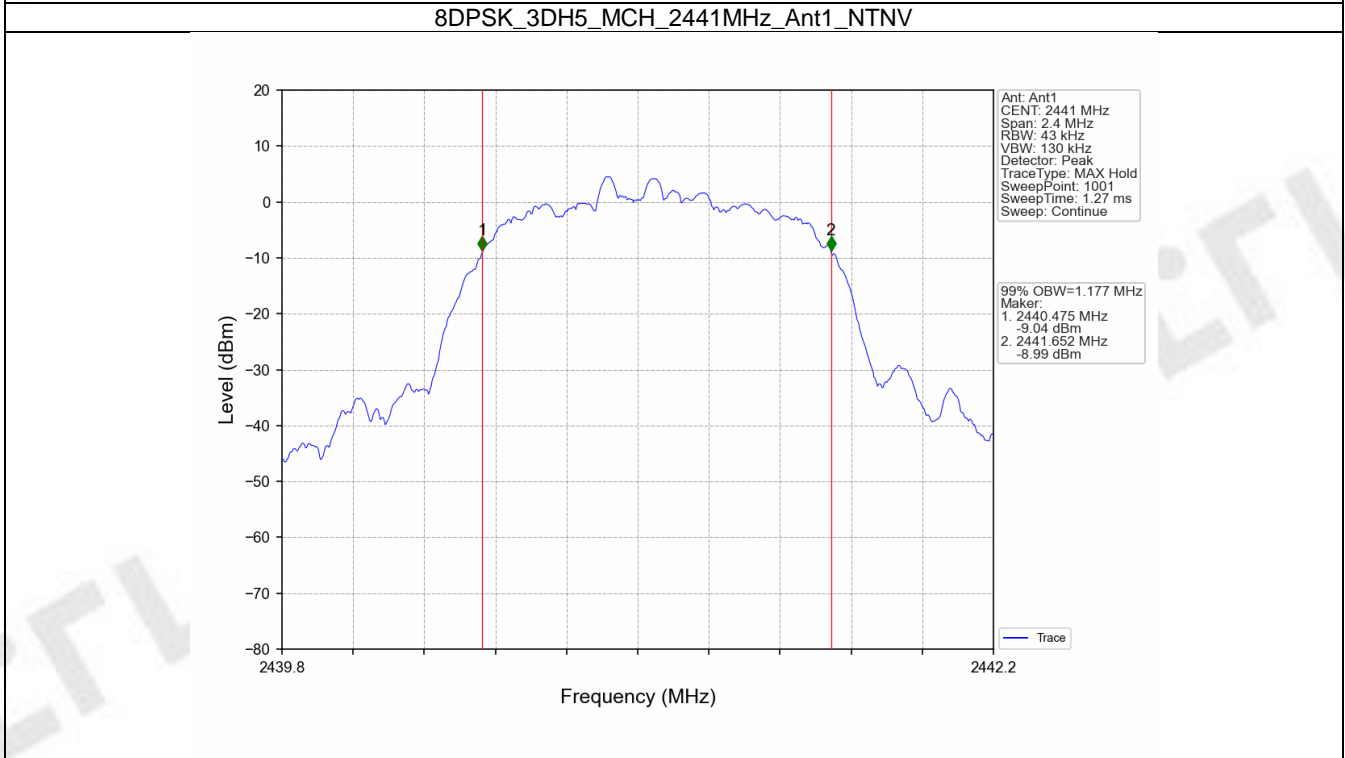
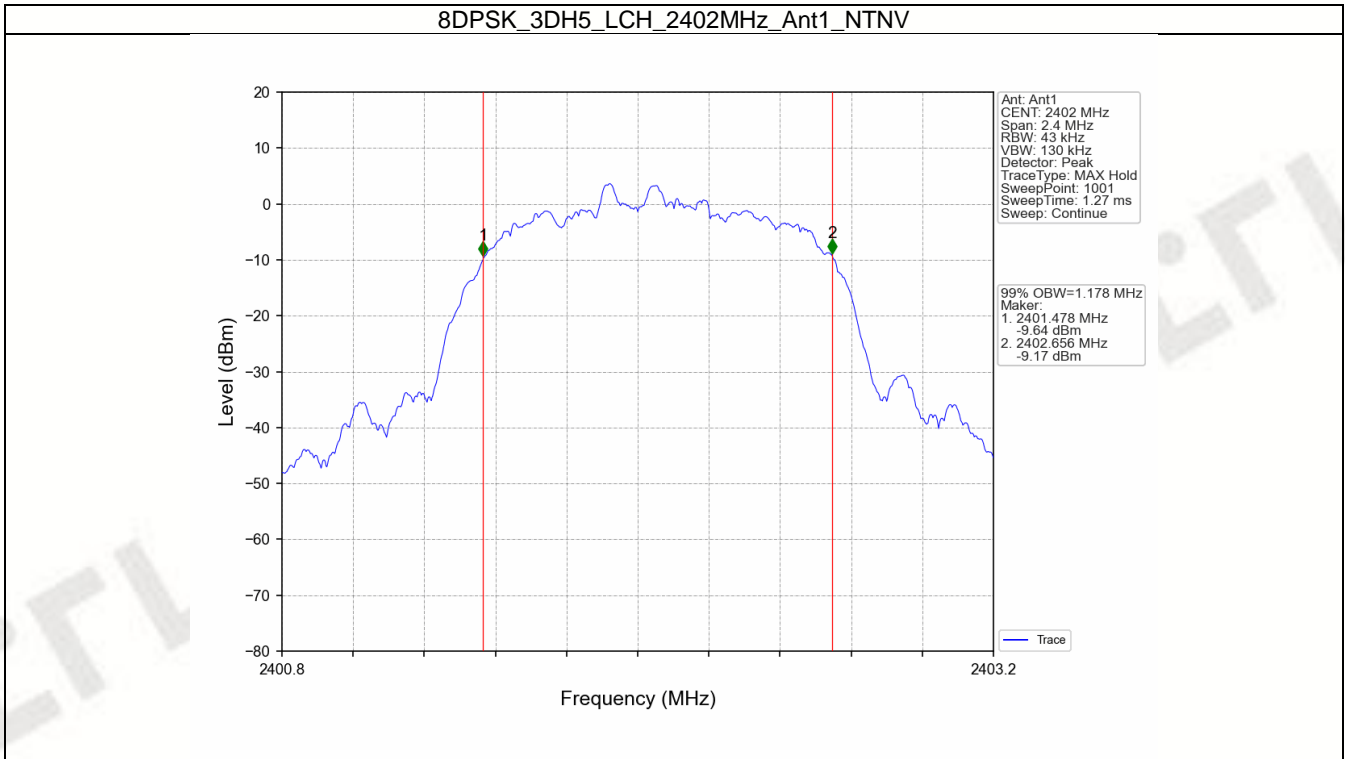
FCCID: 2AC9N-1686124



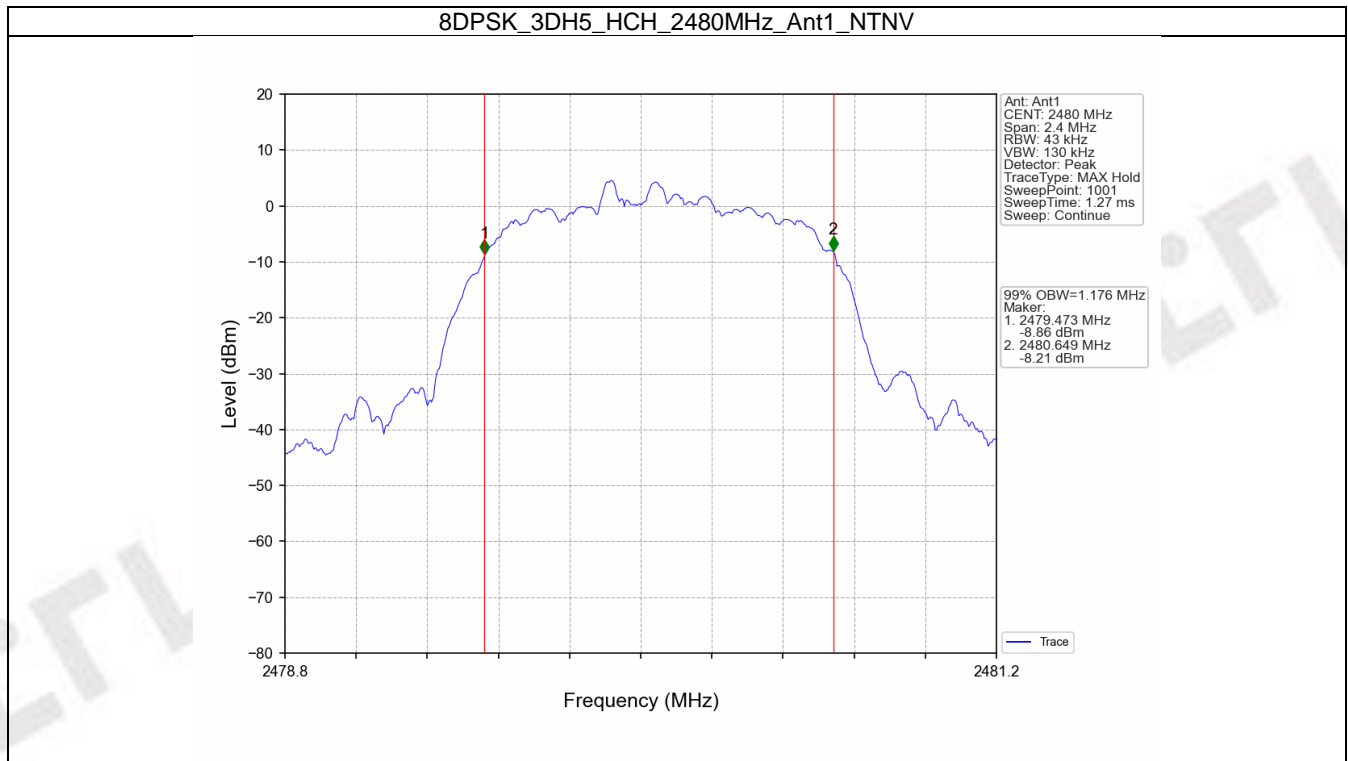
FCCID: 2AC9N-1686124



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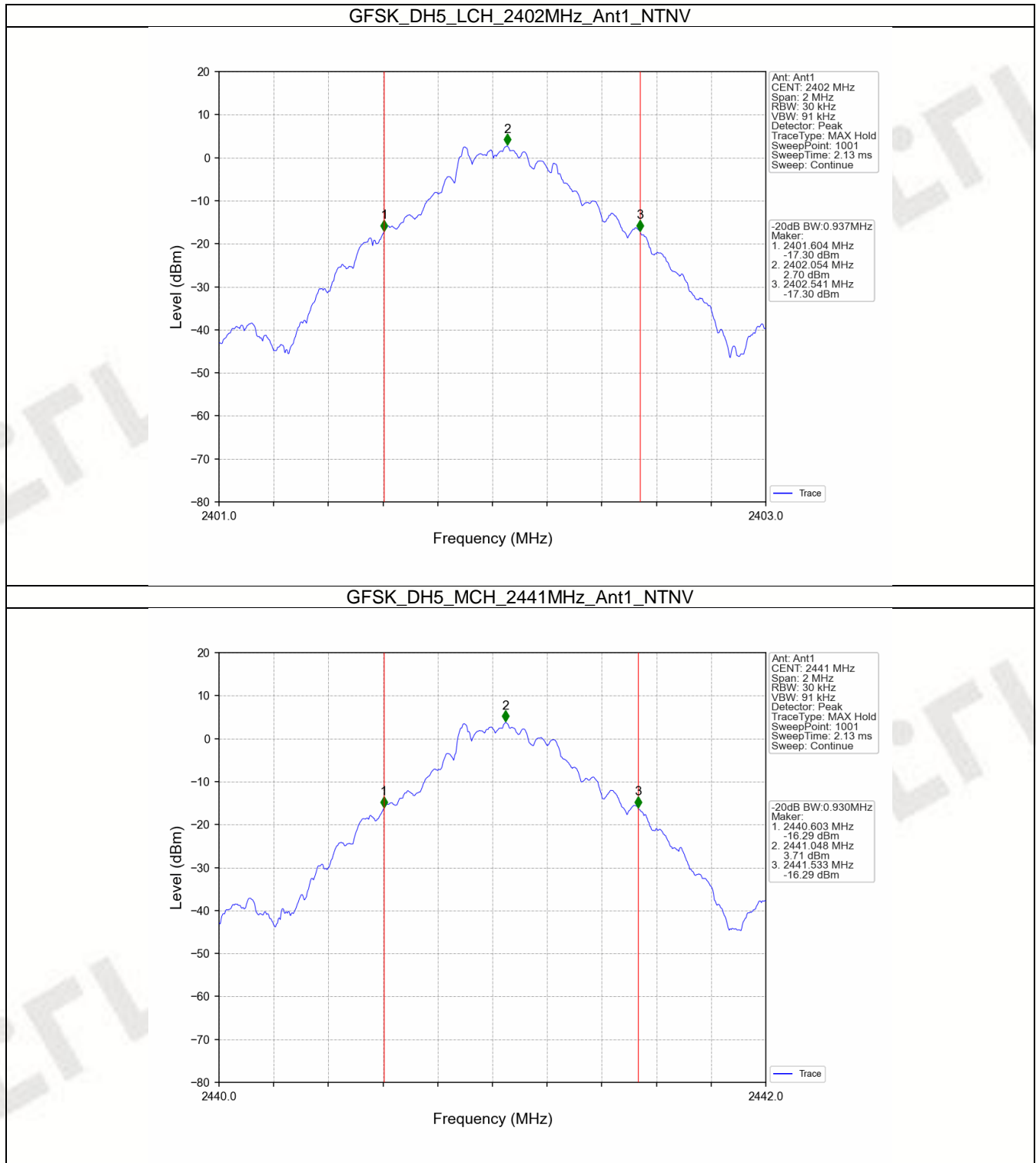
1.2 20dB BW

1.2.1 Test Result

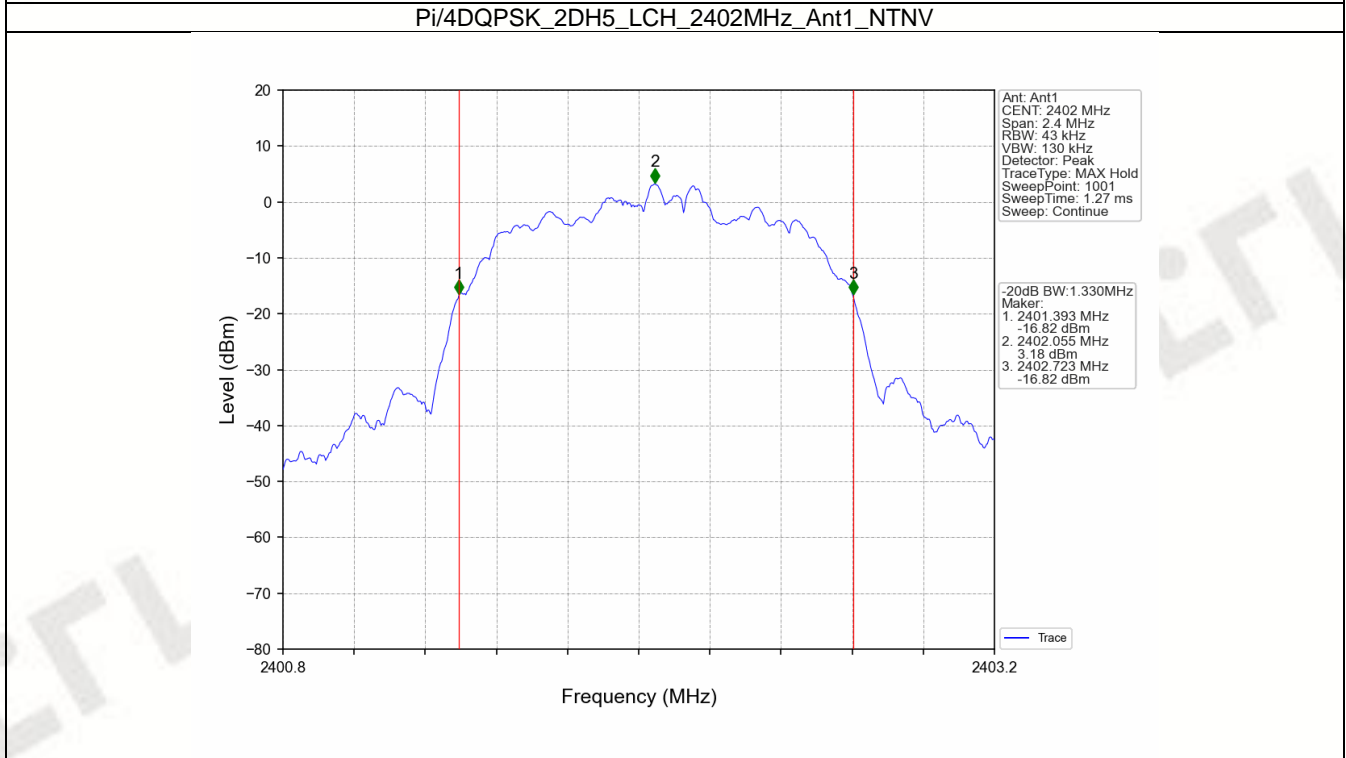
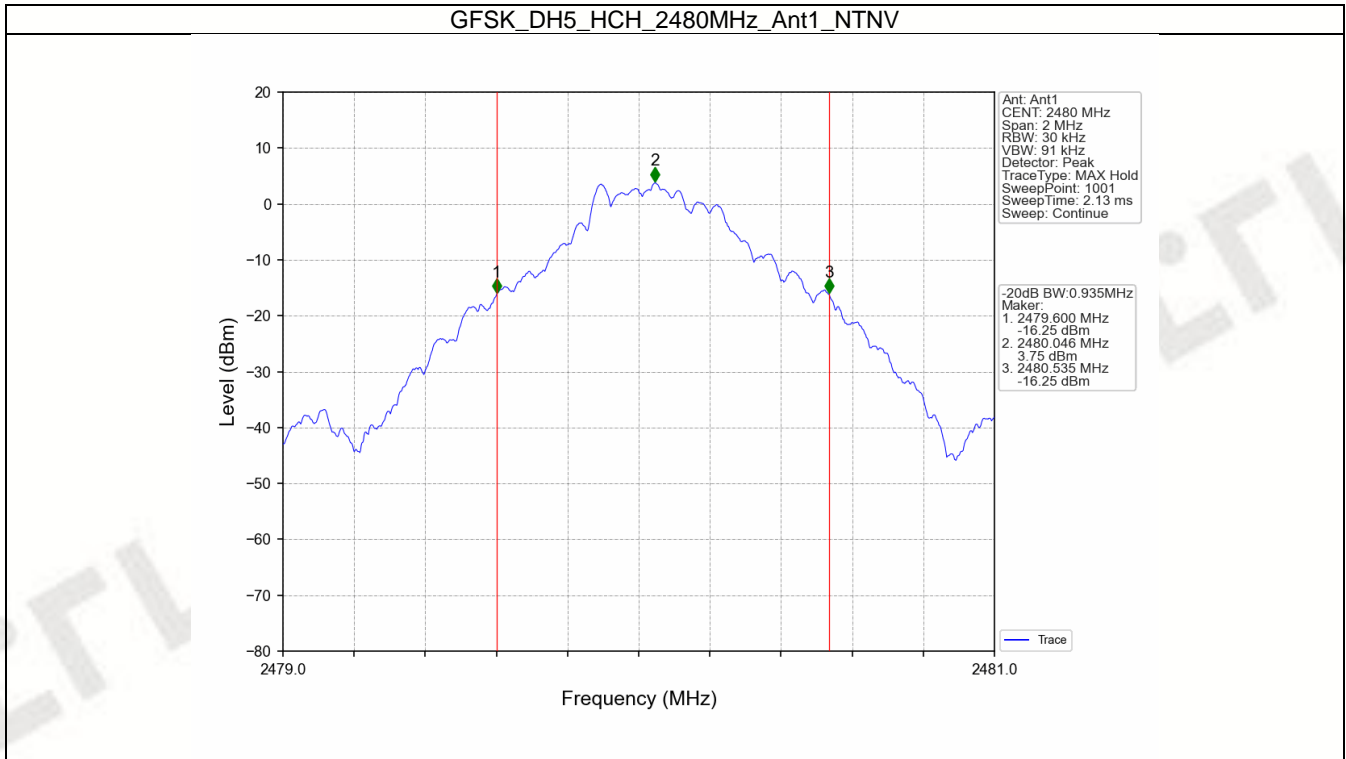
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.937	/	Pass
		2441	DH5	1	0.930	/	Pass
		2480	DH5	1	0.935	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.330	/	Pass
		2441	2DH5	1	1.329	/	Pass
		2480	2DH5	1	1.329	/	Pass
8DPSK	SISO	2402	3DH5	1	1.311	/	Pass
		2441	3DH5	1	1.311	/	Pass
		2480	3DH5	1	1.311	/	Pass

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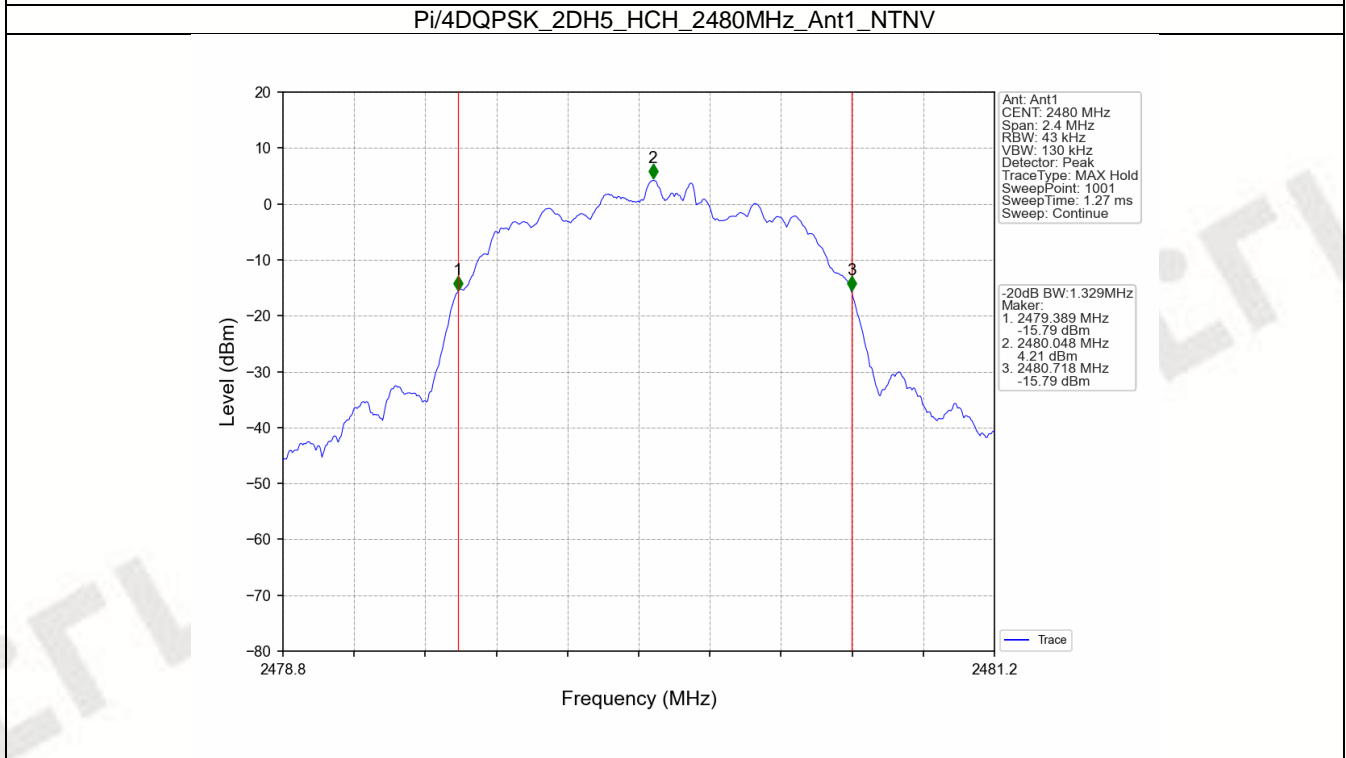
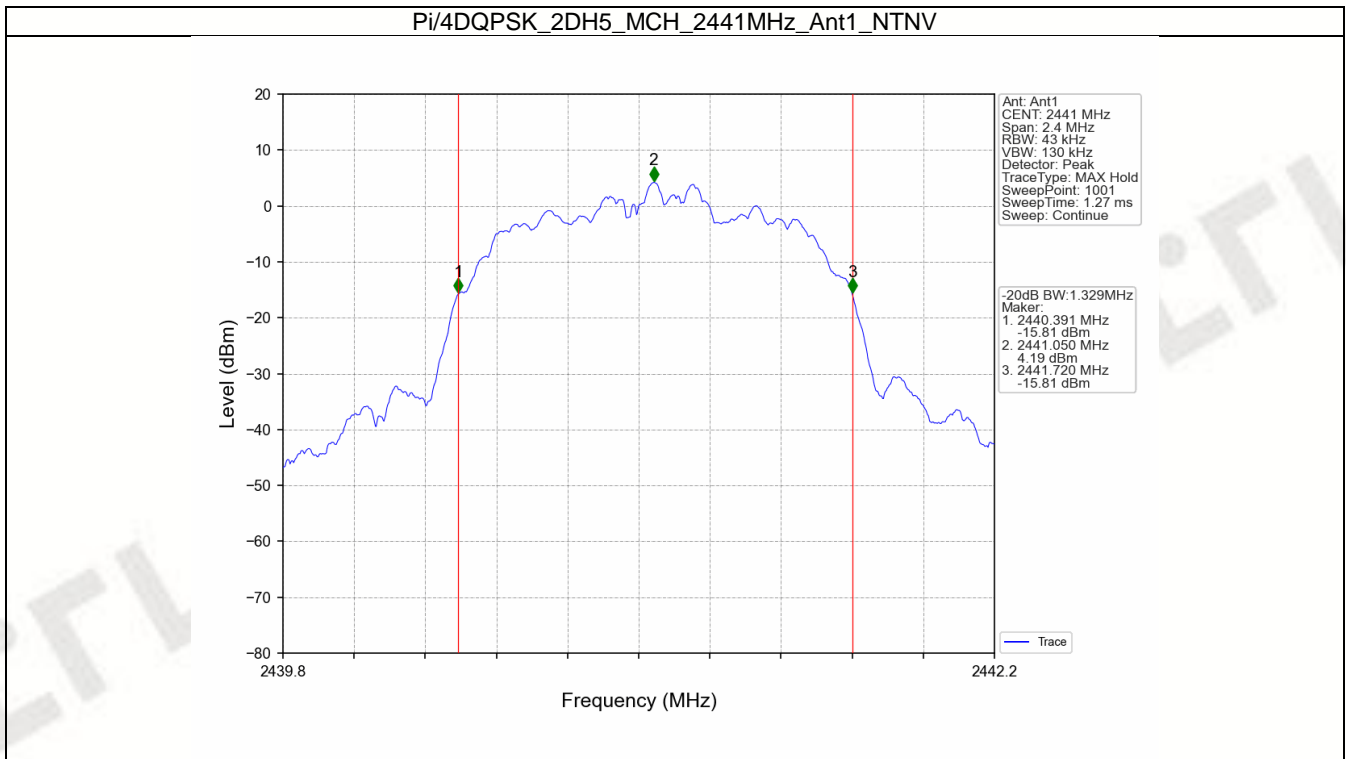
1.2.2 Test Graph



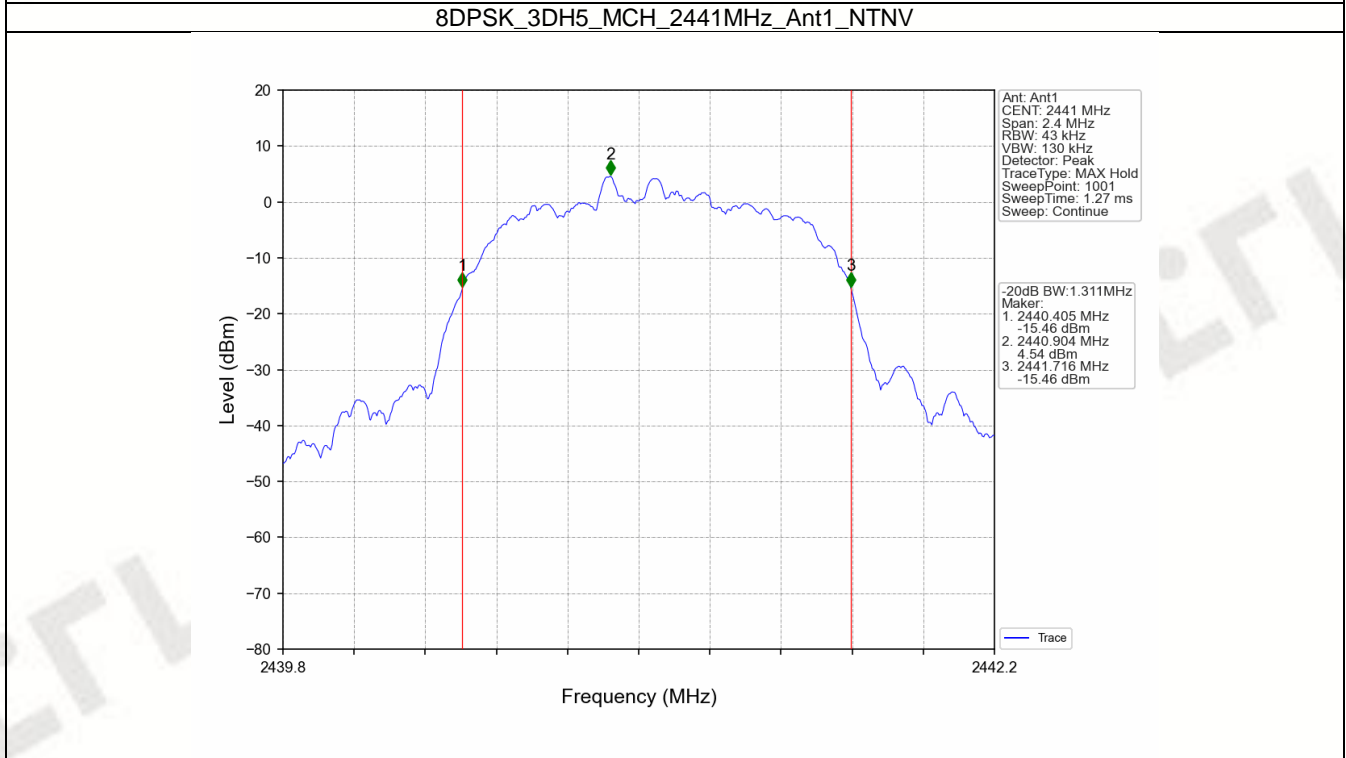
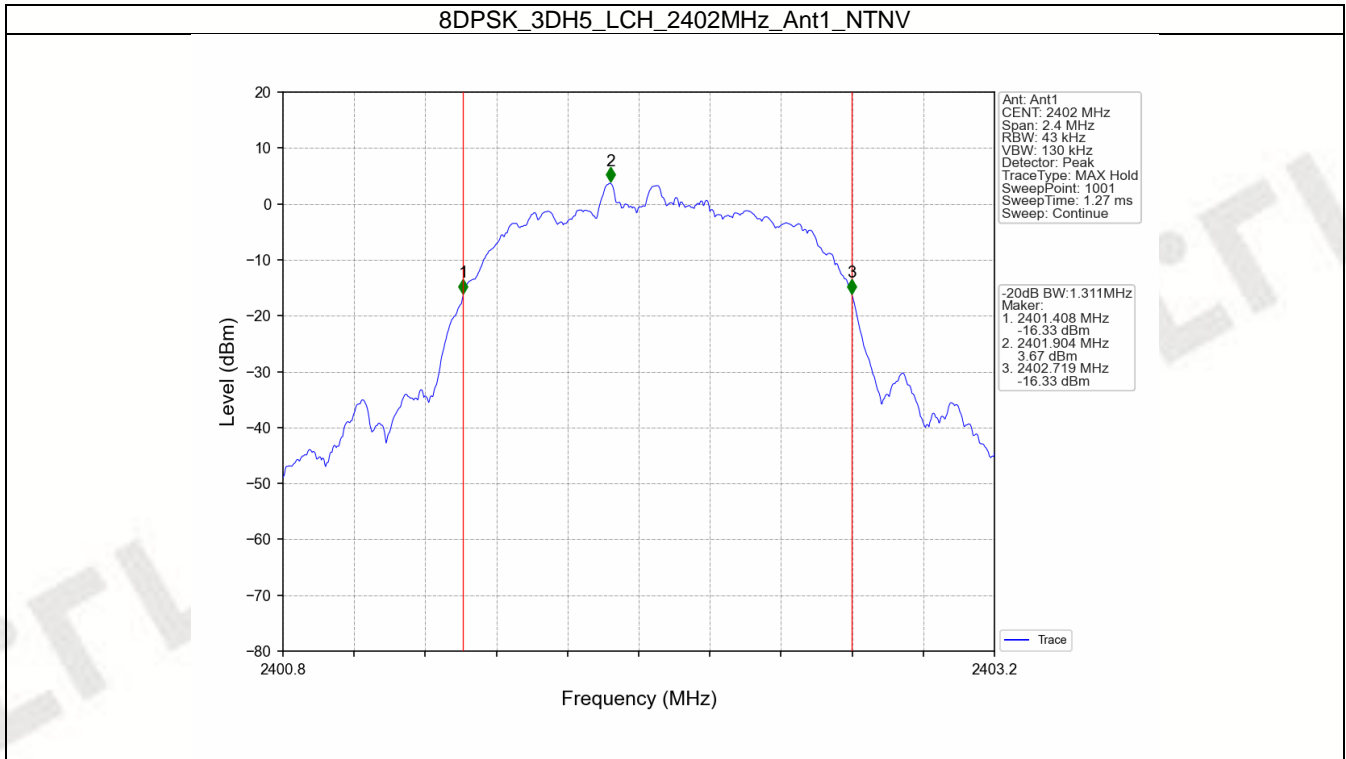
FCCID: 2AC9N-1686124



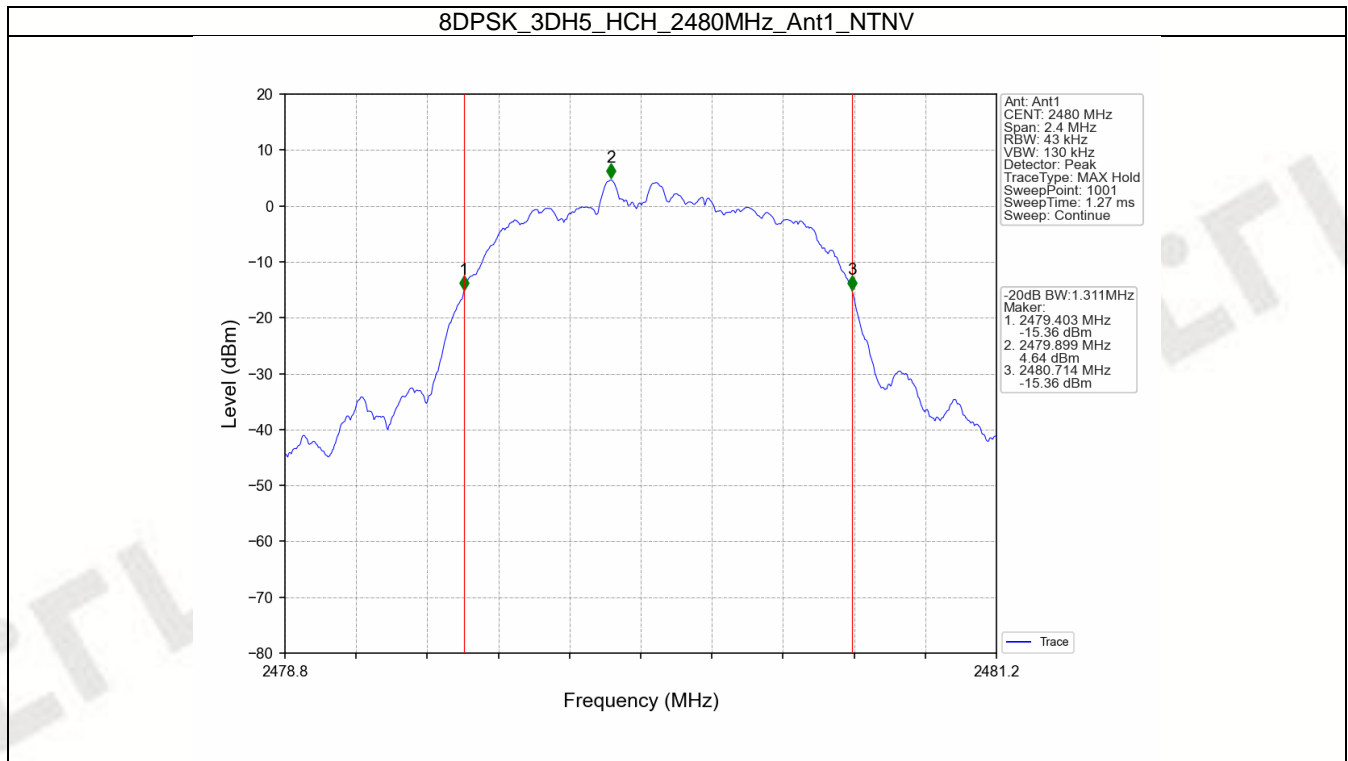
FCCID: 2AC9N-1686124



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FCCID: 2AC9N-1686124

2. Maximum Conducted Output Power

2.1 Power

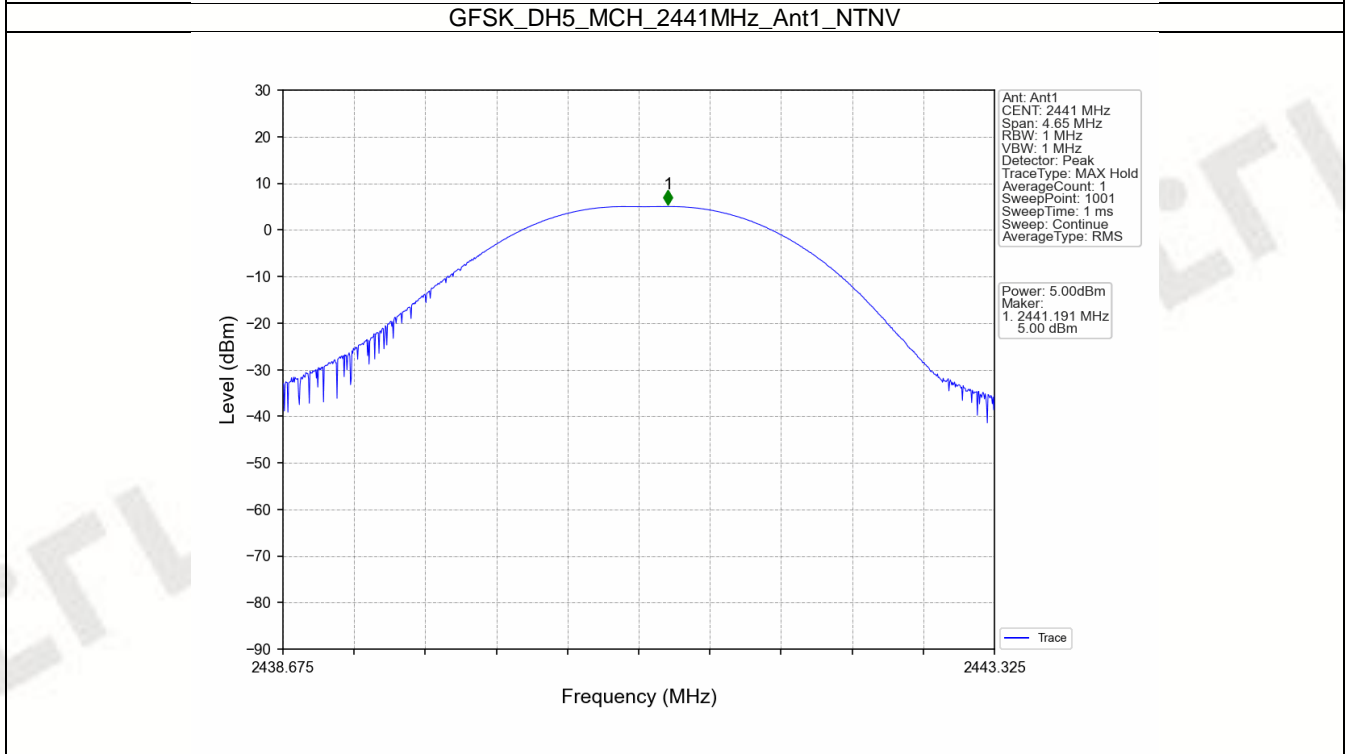
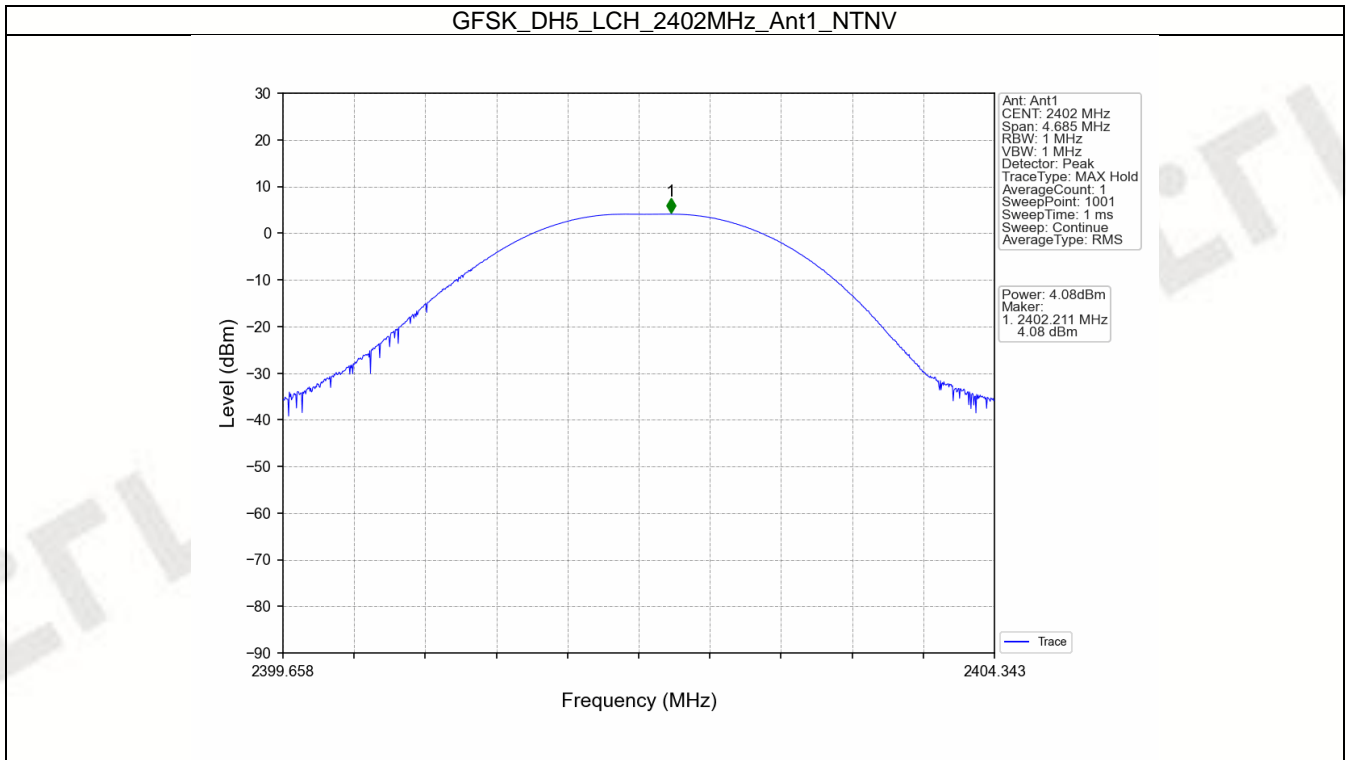
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	4.08	<=30	Pass
		2441	DH5	5.00	<=30	Pass
		2480	DH5	5.04	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	6.58	<=20.97	Pass
		2441	2DH5	7.47	<=20.97	Pass
		2480	2DH5	7.52	<=20.97	Pass
8DPSK	SISO	2402	3DH5	7.04	<=20.97	Pass
		2441	3DH5	7.99	<=20.97	Pass
		2480	3DH5	7.99	<=20.97	Pass

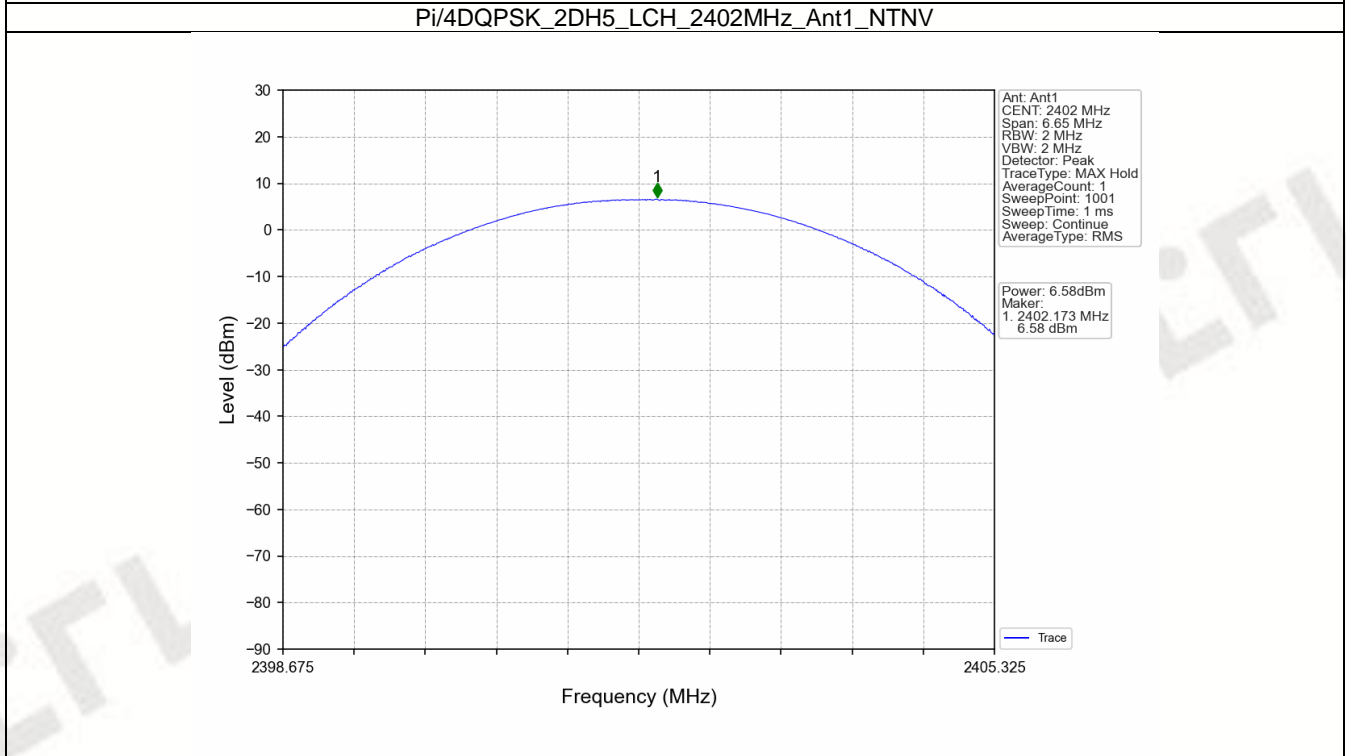
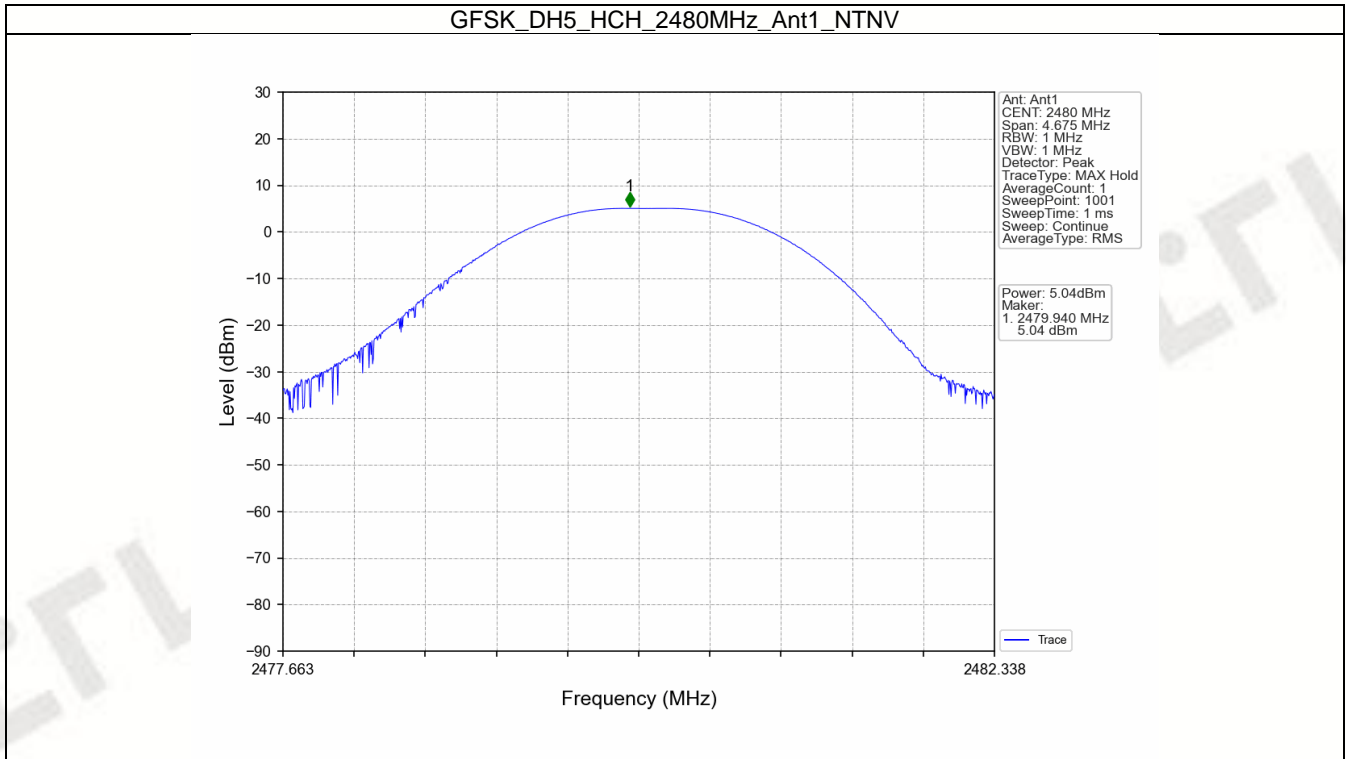
Note1: Antenna Gain: Ant1: -0.58dBi;

FCCID: 2AC9N-1686124

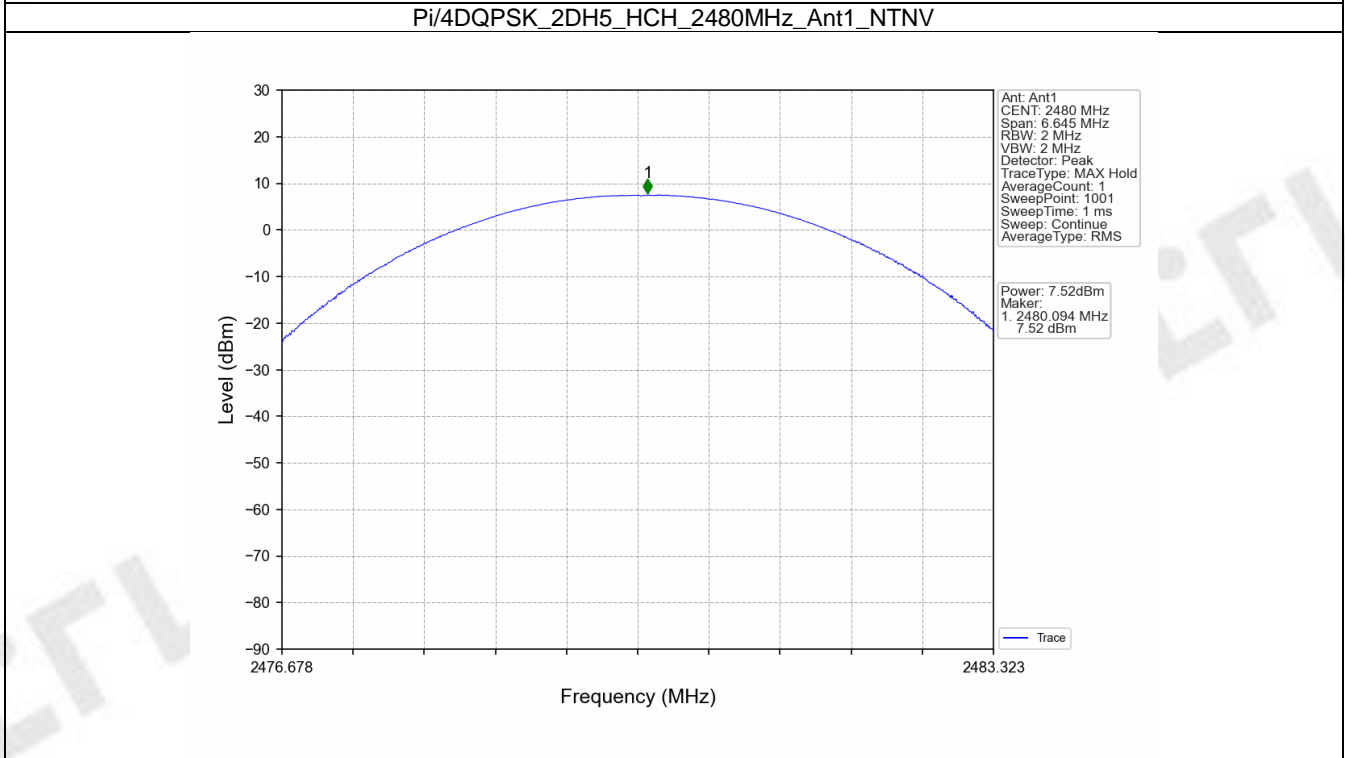
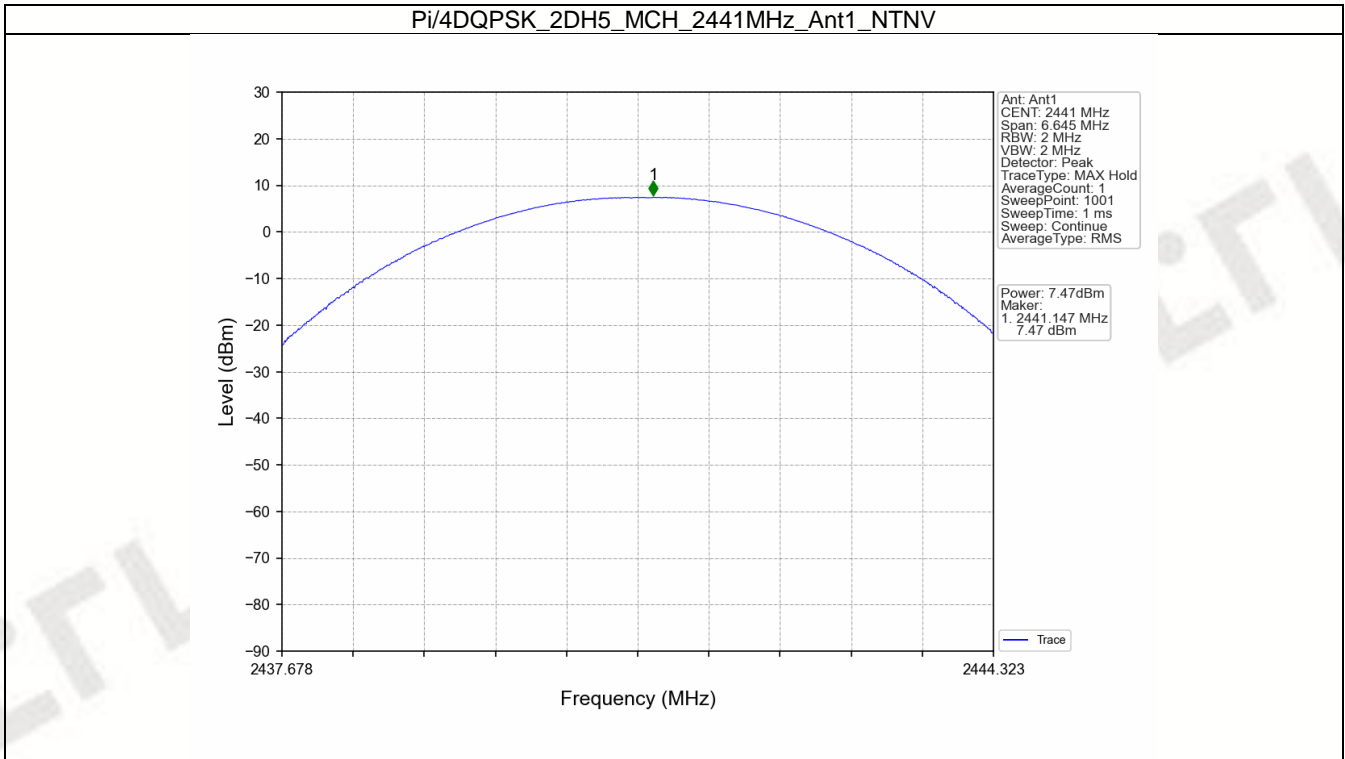
2.1.2 Test Graph



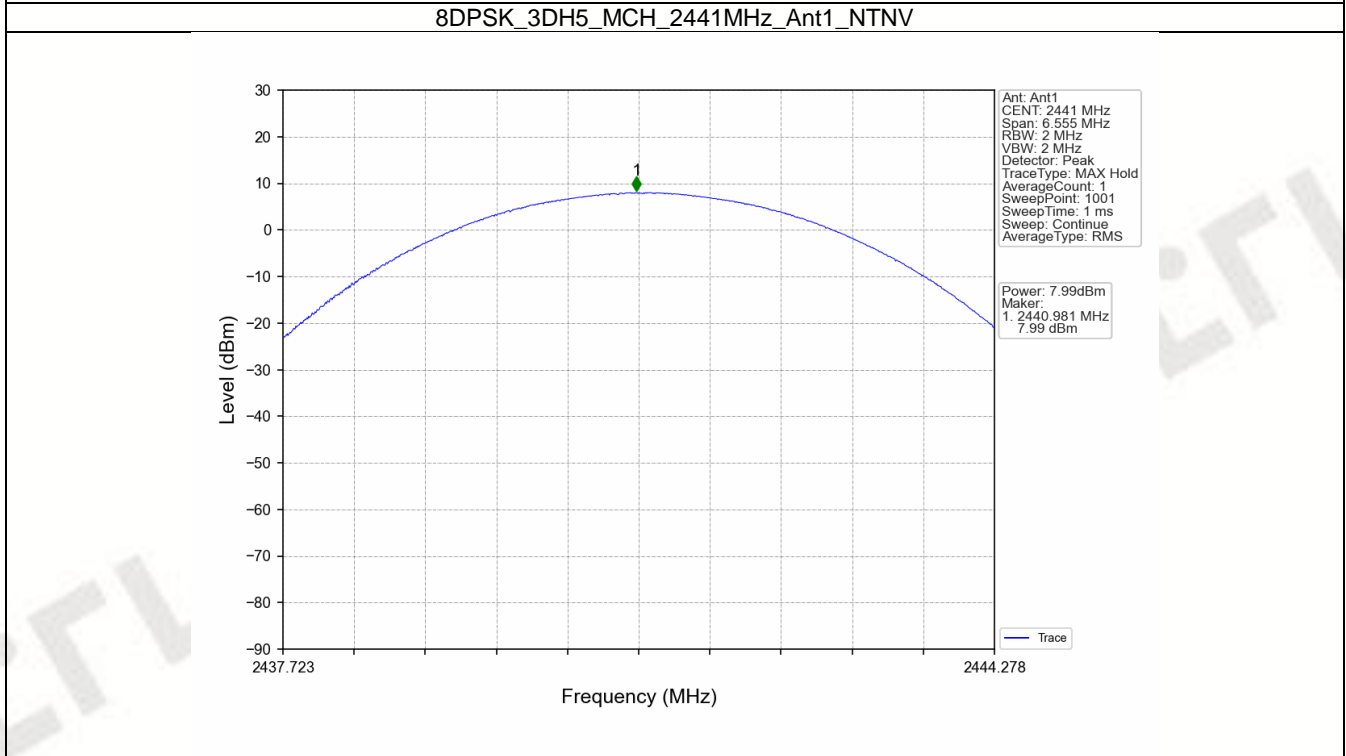
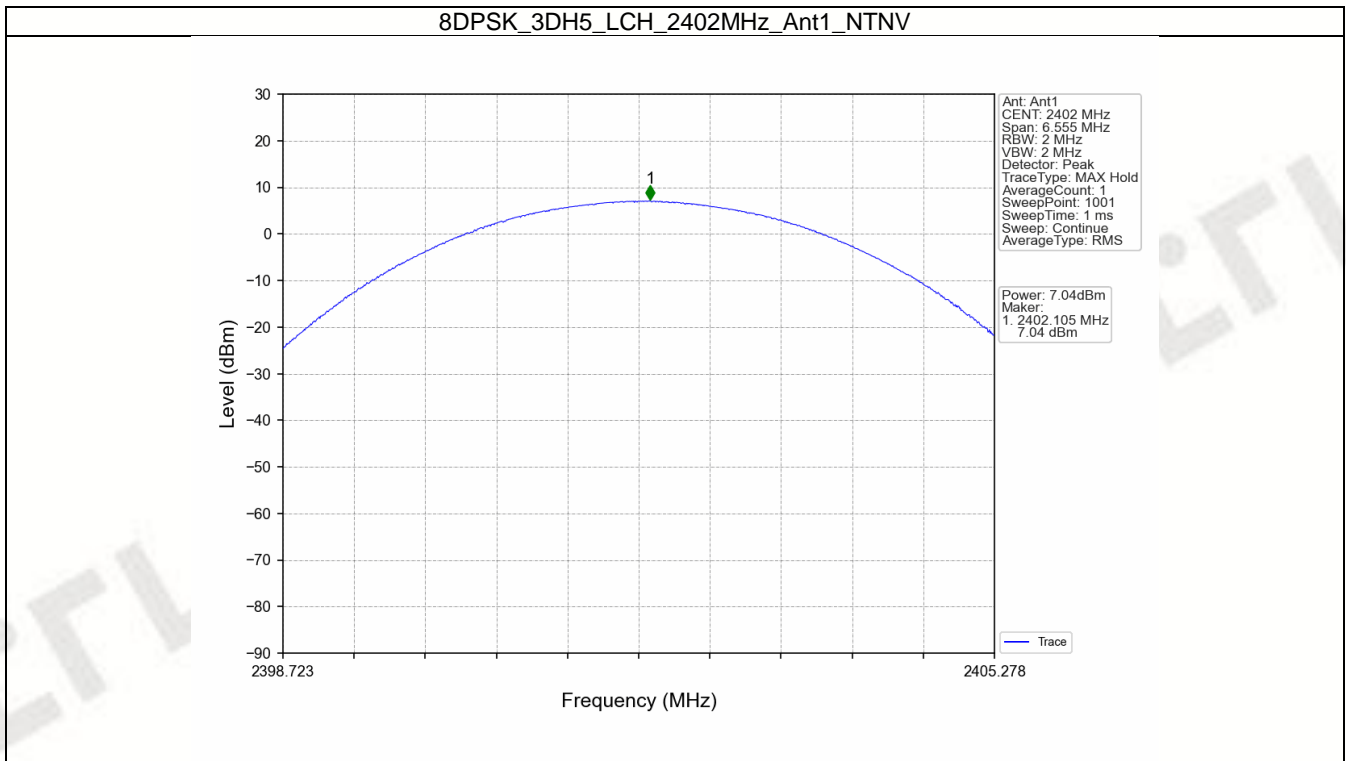
FCCID: 2AC9N-1686124



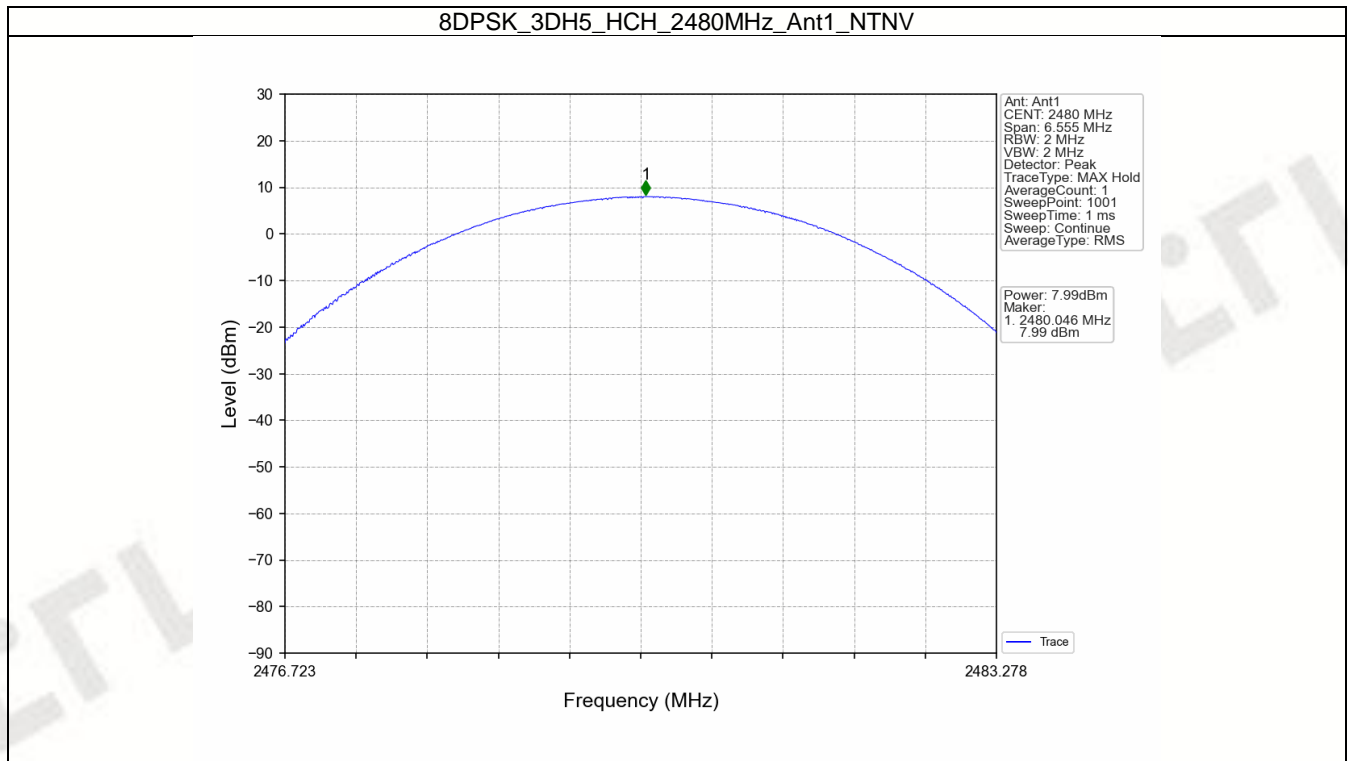
FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124

3. Carrier Frequency Separation

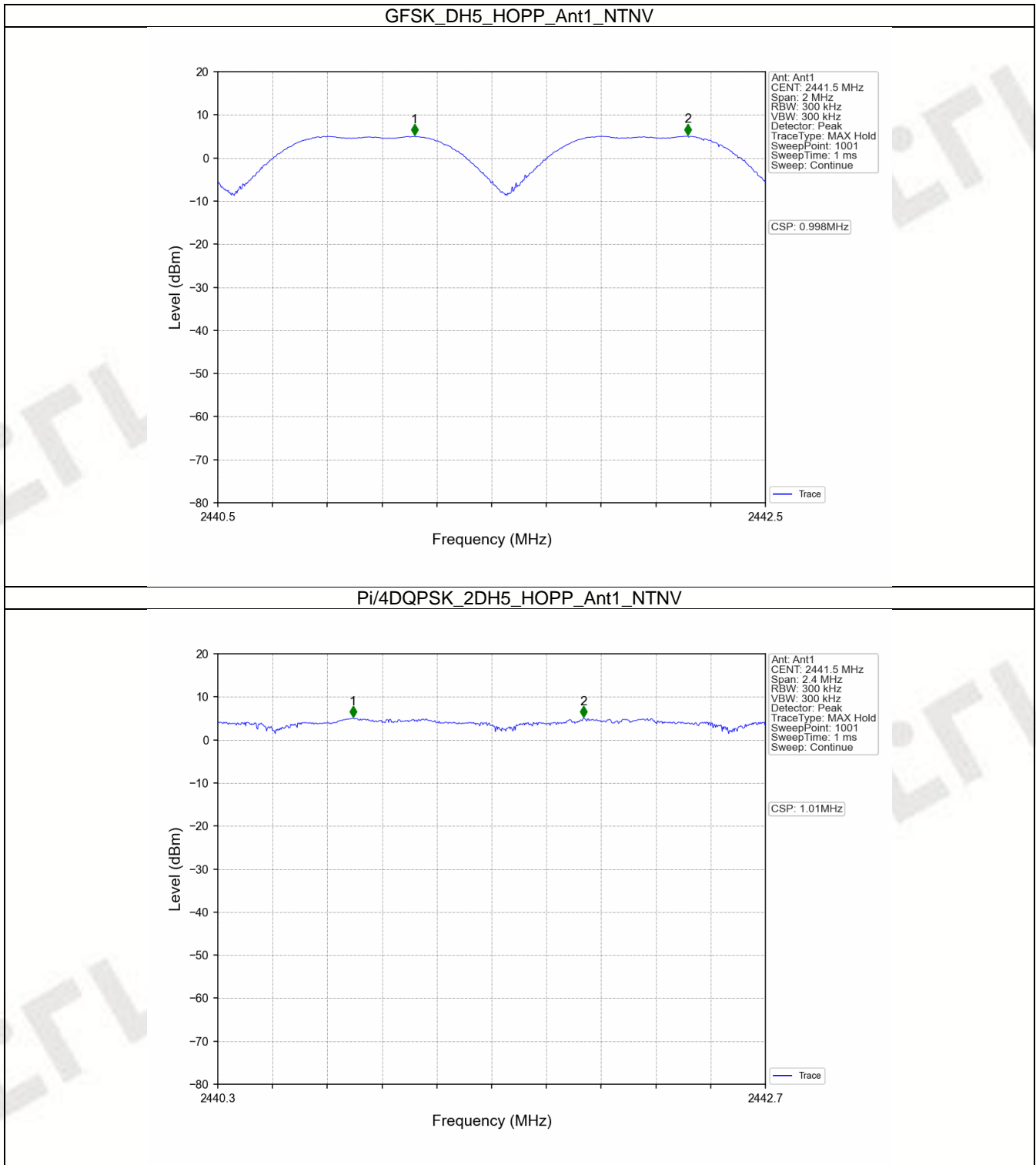
3.1 Ant1

3.1.1 Test Result

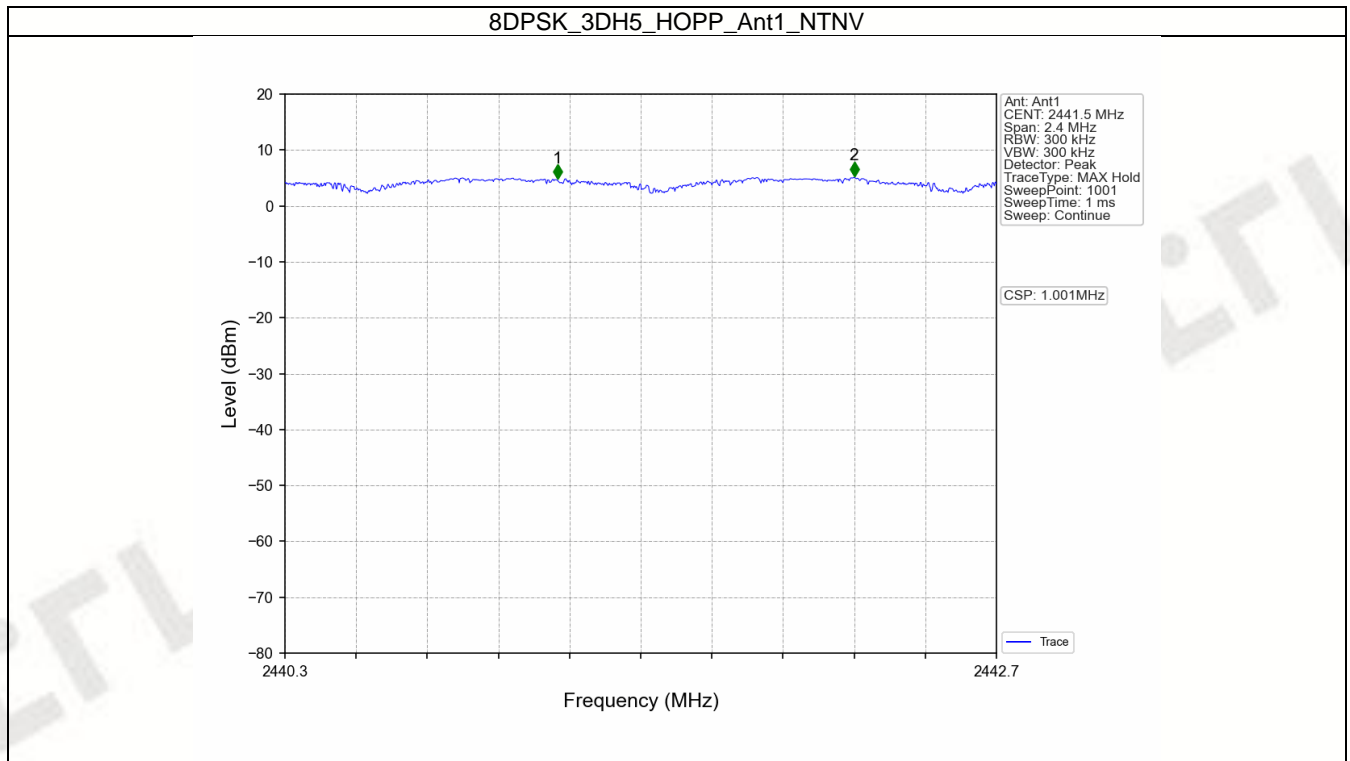
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.998	0.937	≥ 0.937	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.010	1.330	≥ 0.887	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.311	≥ 0.874	Pass

FCCID: 2AC9N-1686124

3.1.2 Test Graph



FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124

4. Number of Hopping Frequencies

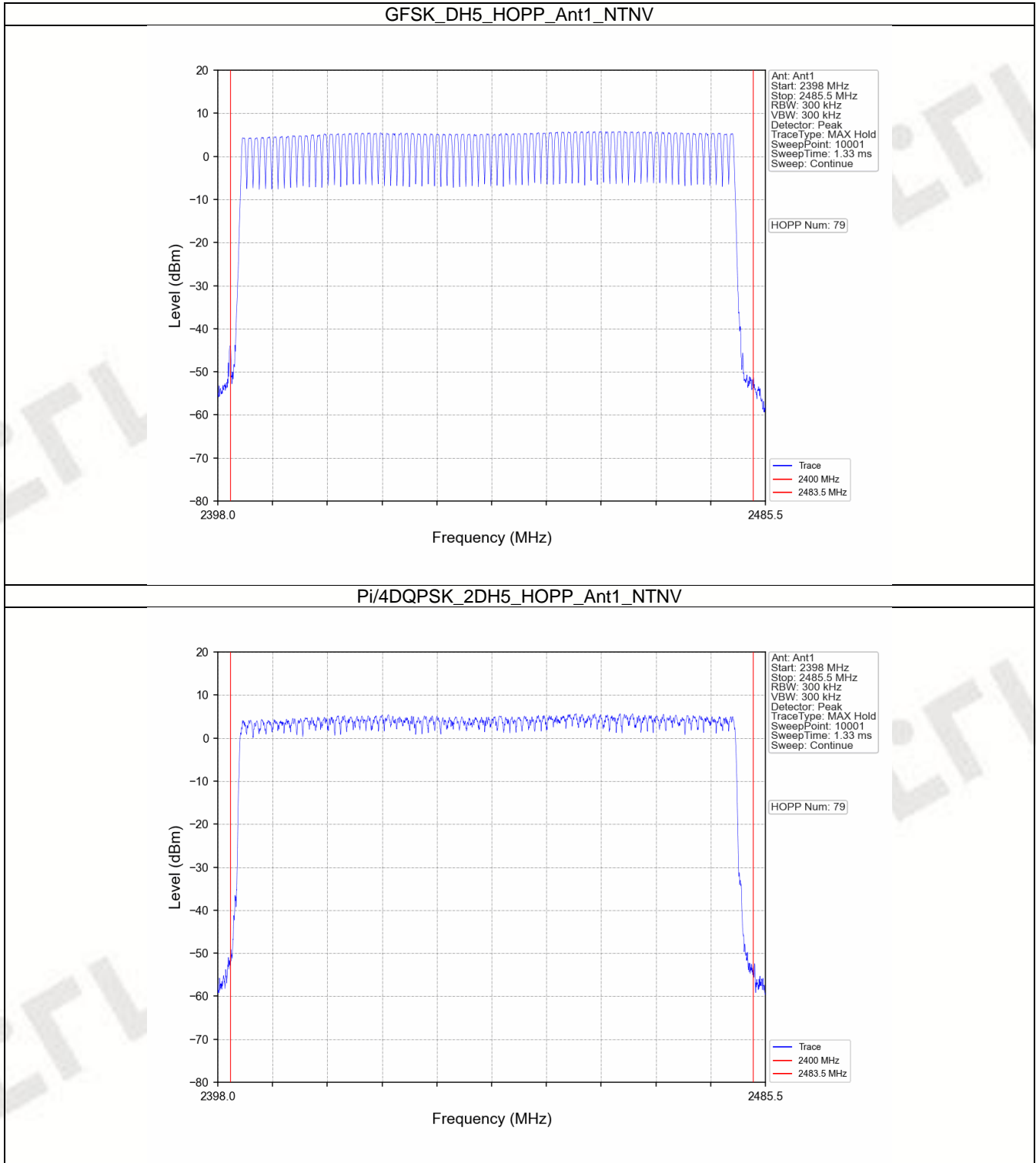
4.1 HoppNum

4.1.1 Test Result

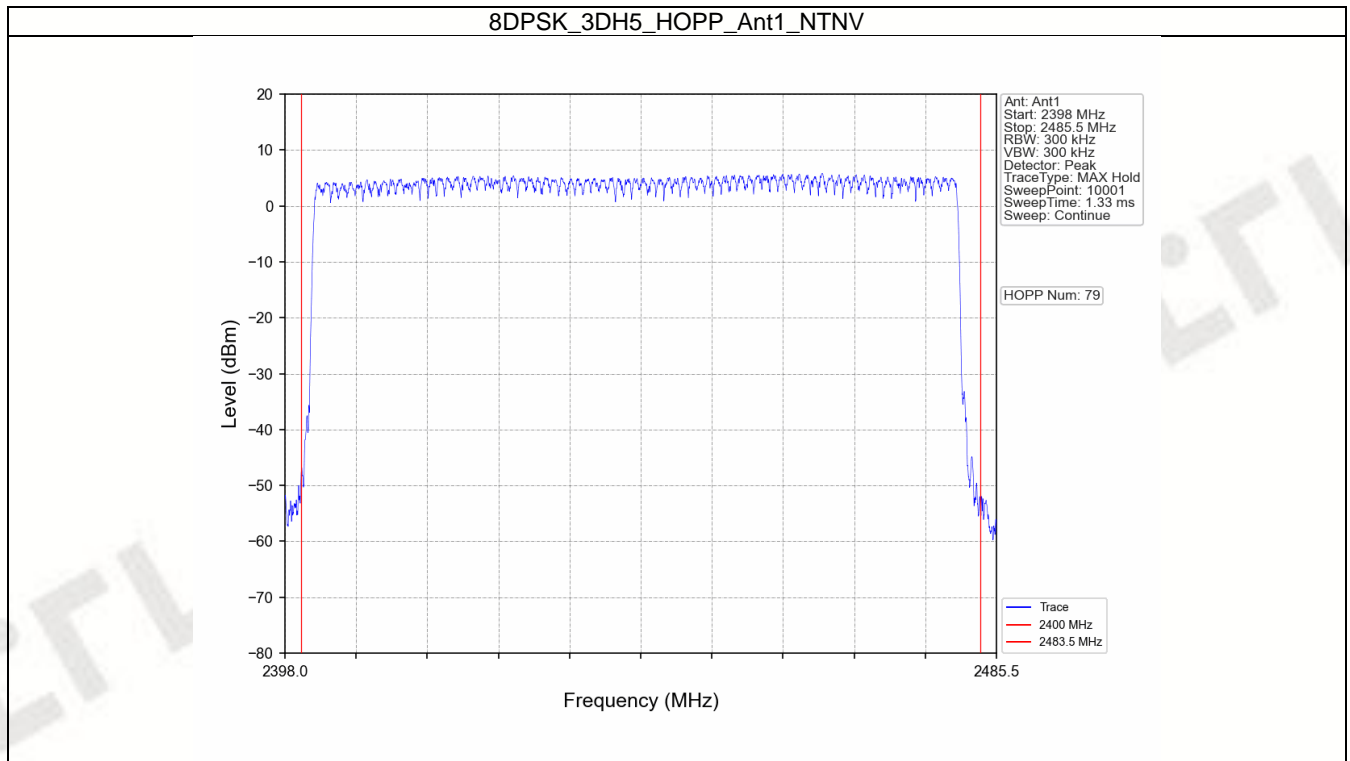
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

FCCID: 2AC9N-1686124

4.1.2 Test Graph



FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124

5. Time of Occupancy (Dwell Time)

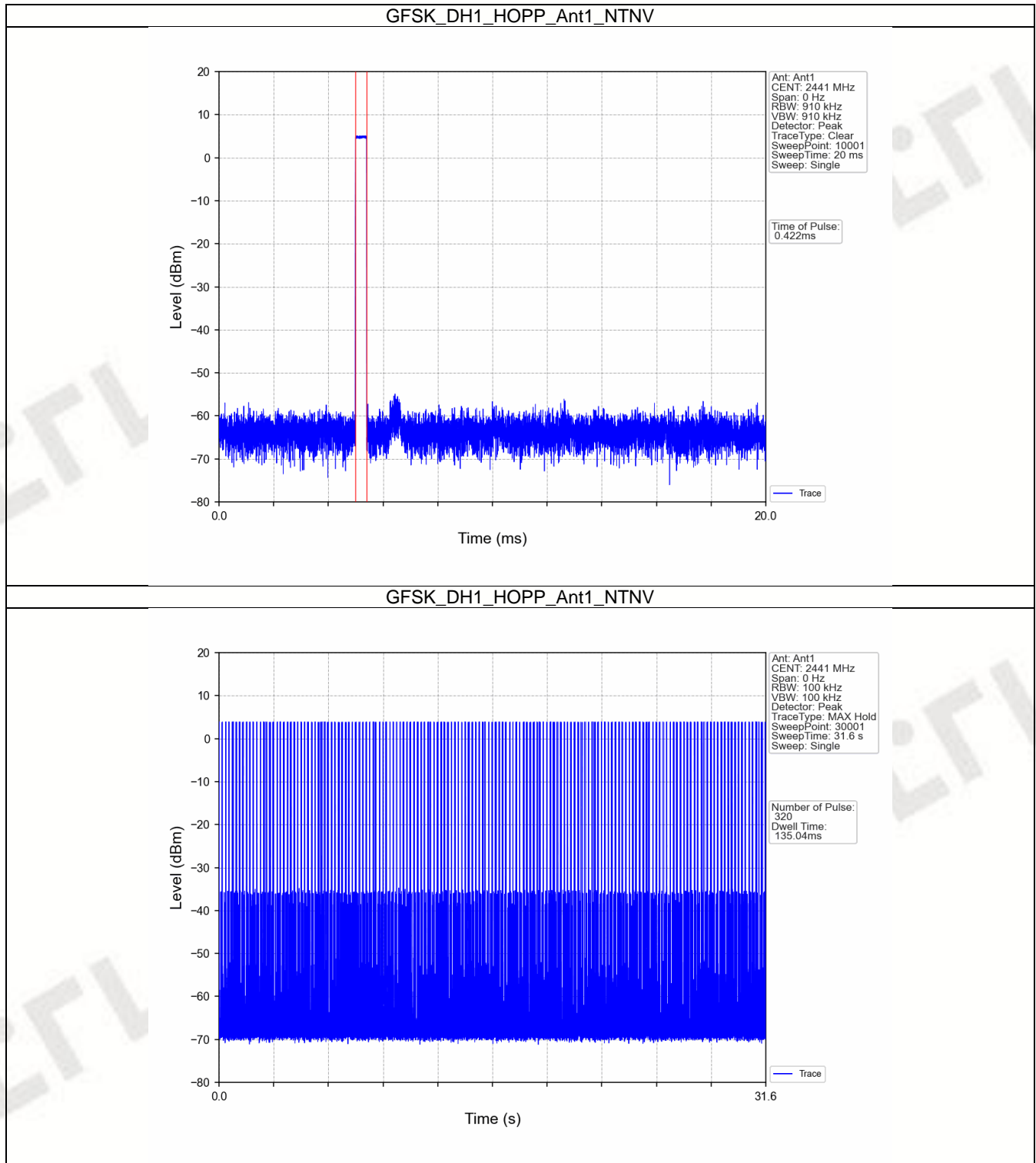
5.1 Ant1

5.1.1 Test Result

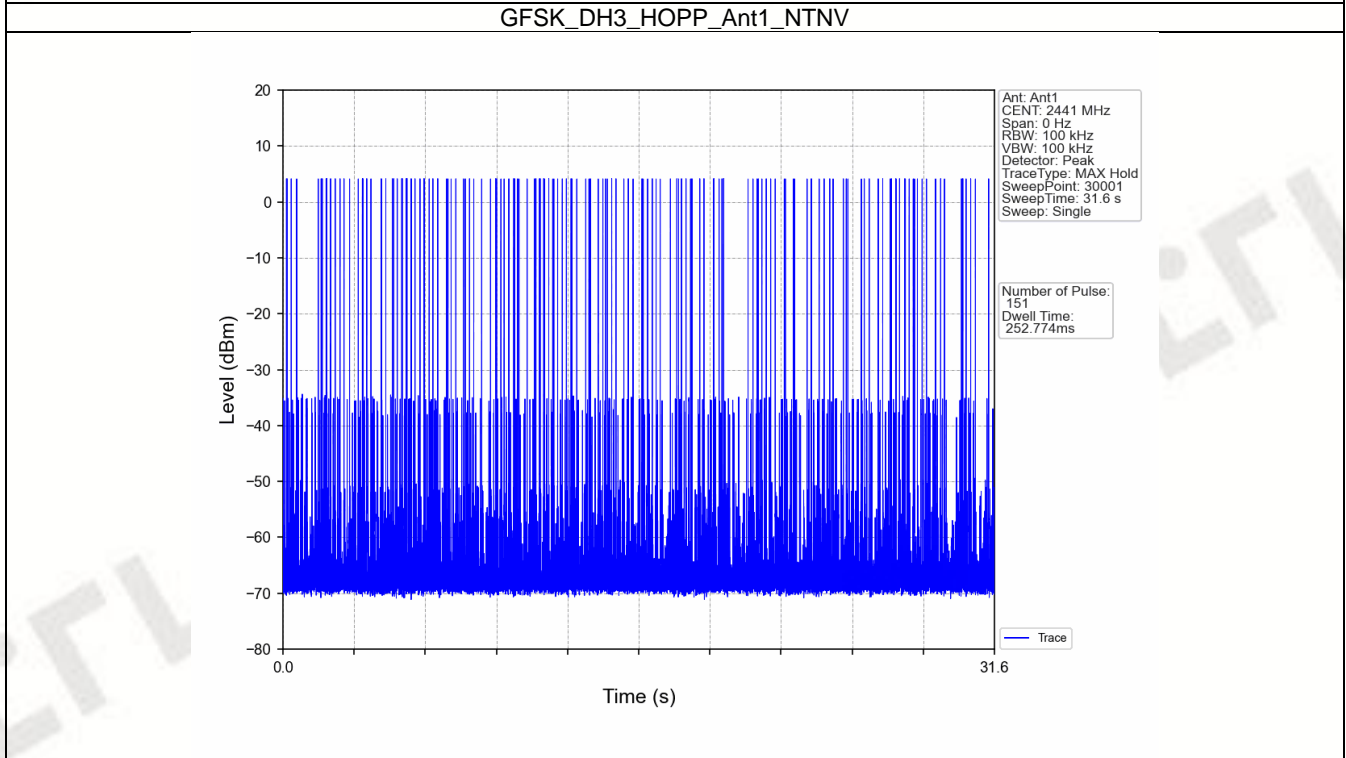
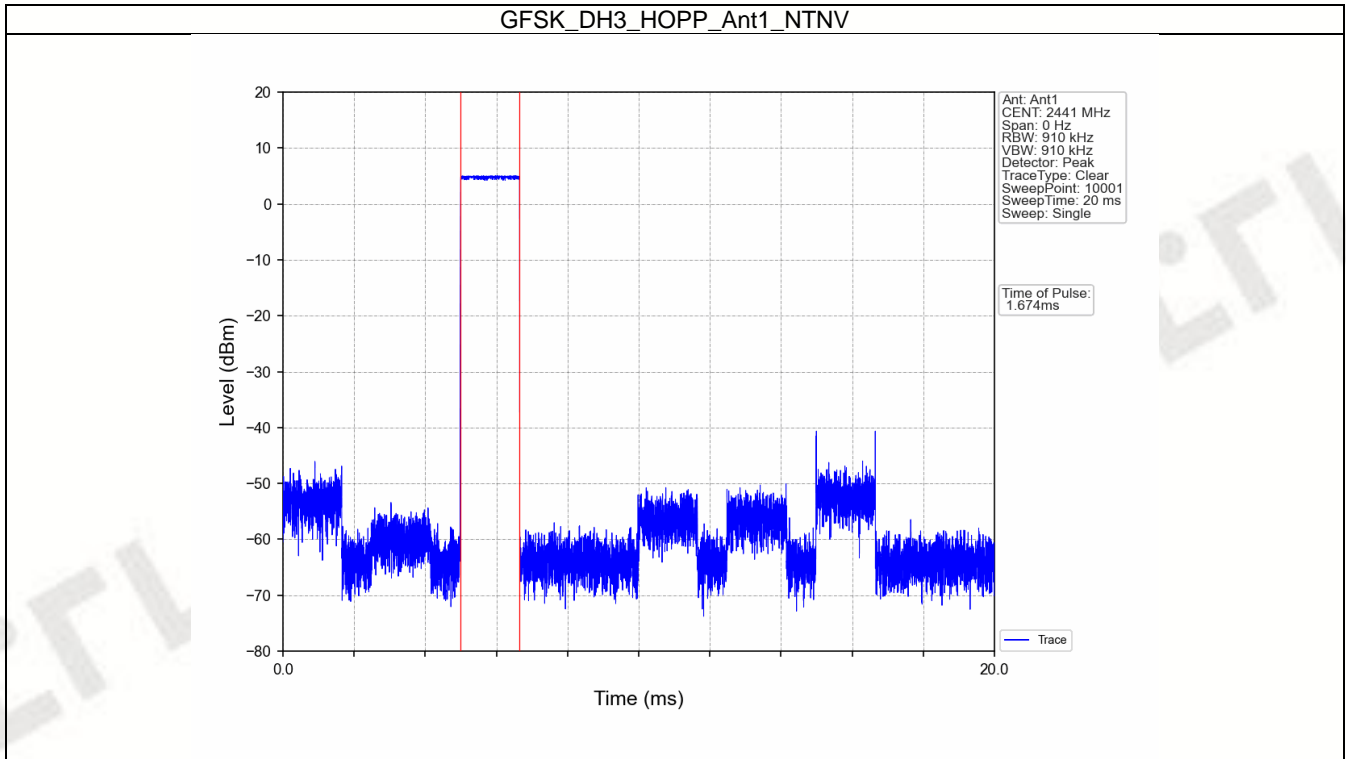
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.422	31.600	320	135.040	<=400	Pass
			DH3	1.674	31.600	151	252.774	<=400	Pass
			DH5	2.924	31.600	100	292.400	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.430	31.600	320	137.600	<=400	Pass
			2DH3	1.682	31.600	152	255.664	<=400	Pass
			2DH5	2.930	31.600	111	325.230	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.432	31.600	320	138.240	<=400	Pass
			3DH3	1.678	31.600	161	270.158	<=400	Pass
			3DH5	2.932	31.600	109	319.588	<=400	Pass

FCCID: 2AC9N-1686124

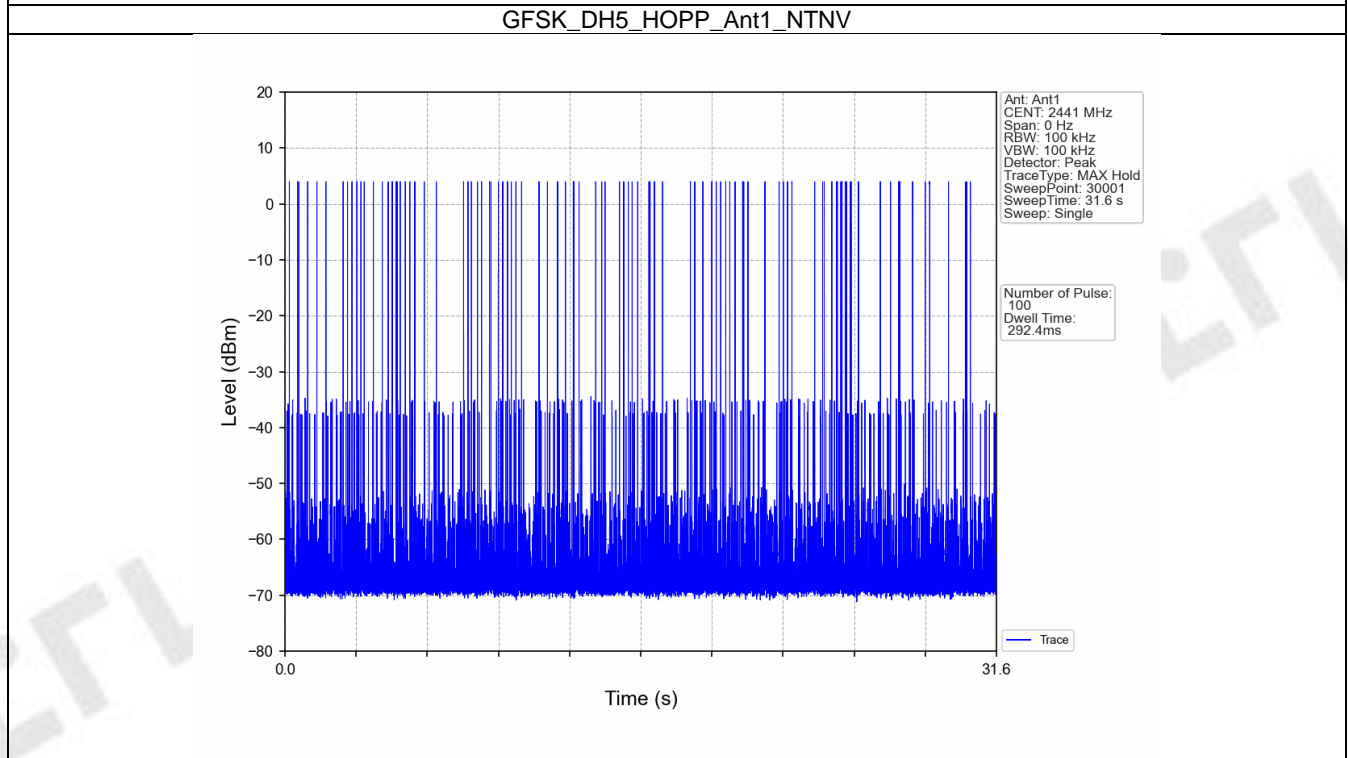
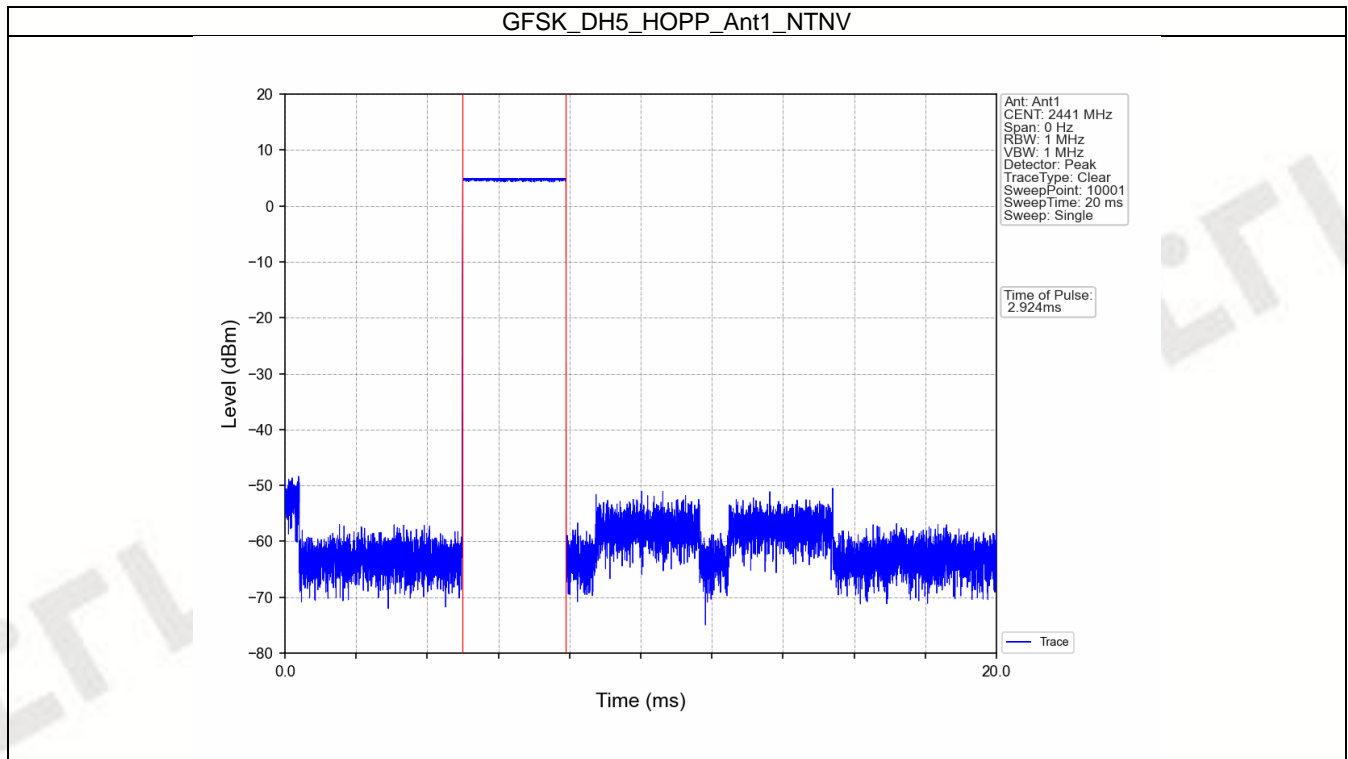
5.1.2 Test Graph



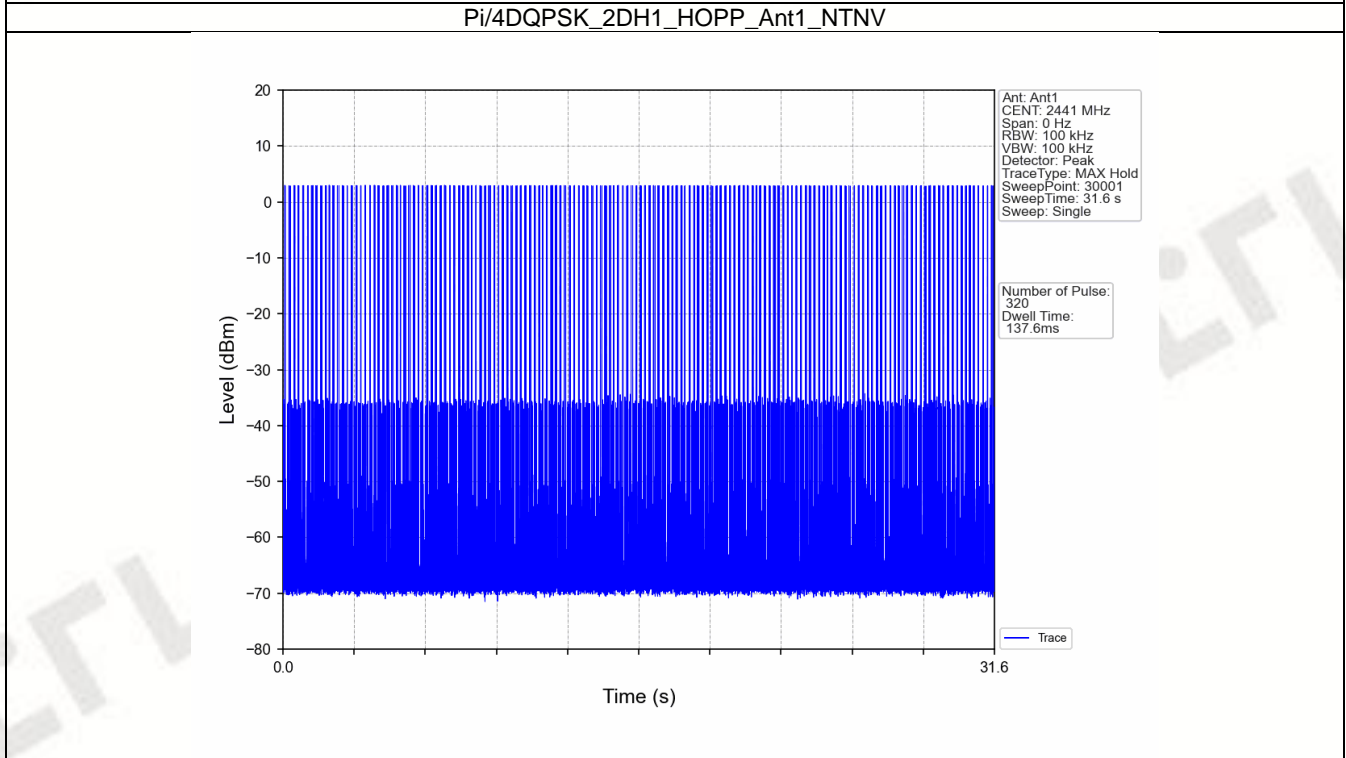
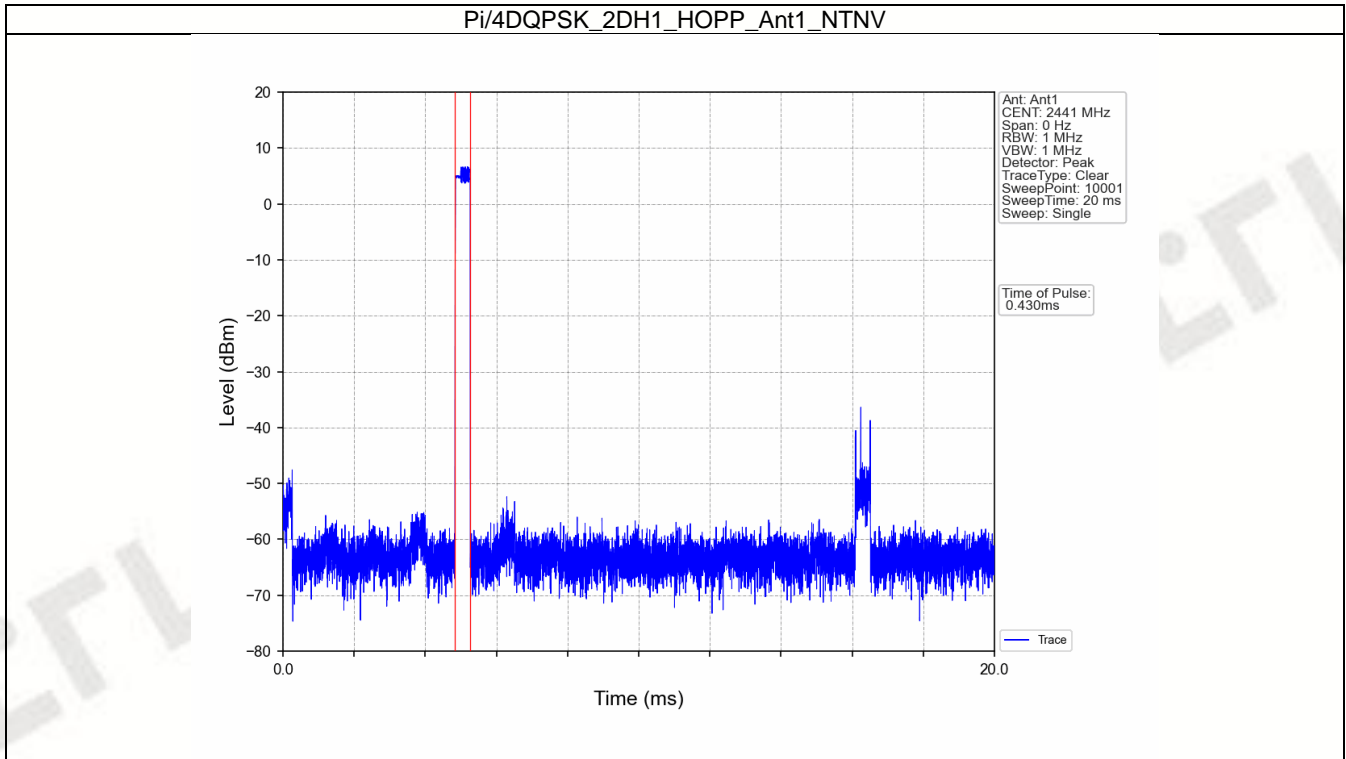
FCCID: 2AC9N-1686124



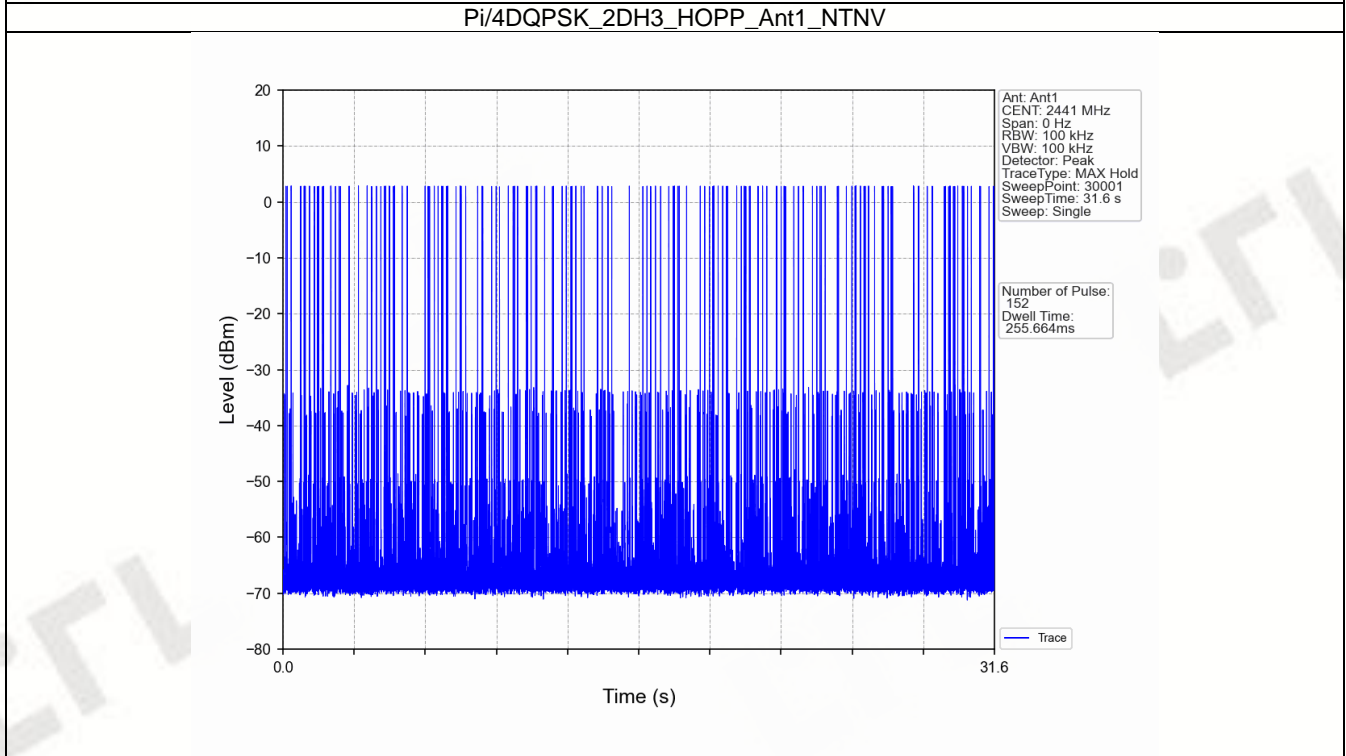
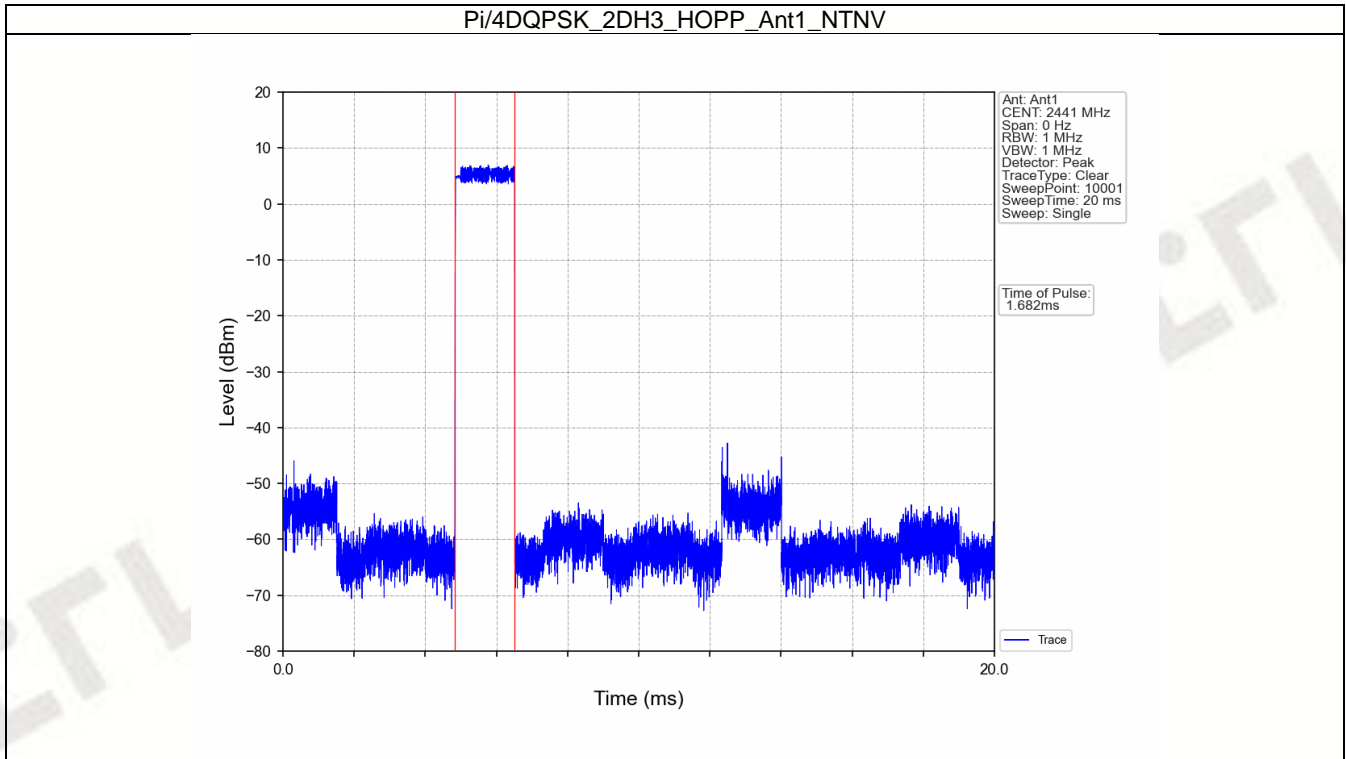
FCCID: 2AC9N-1686124



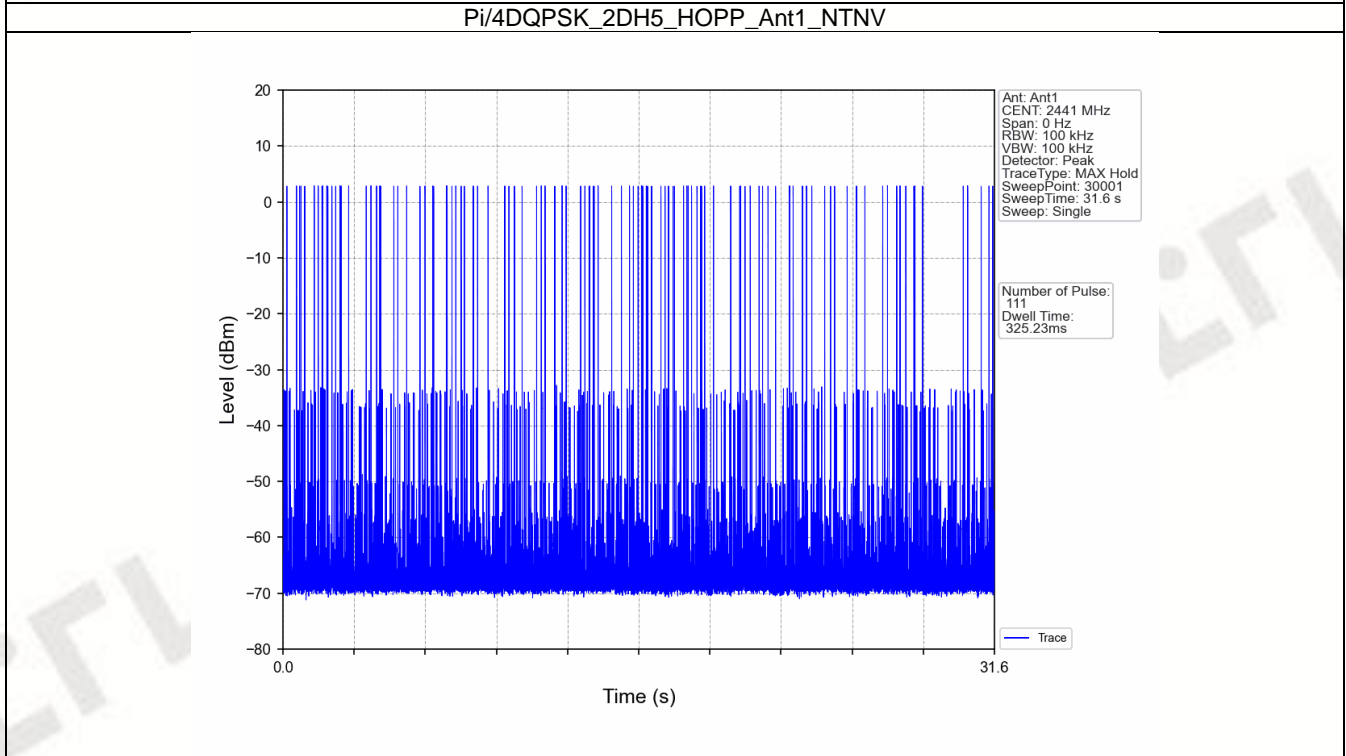
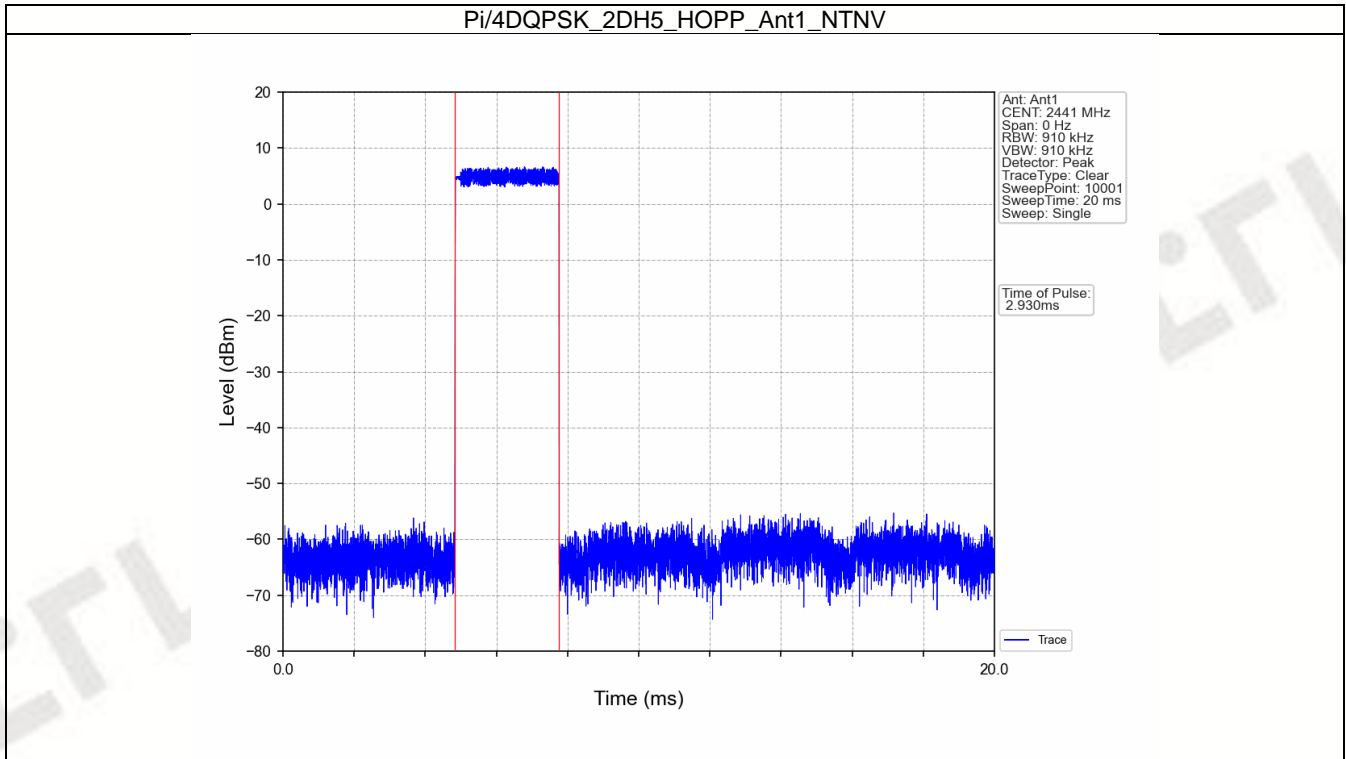
FCCID: 2AC9N-1686124



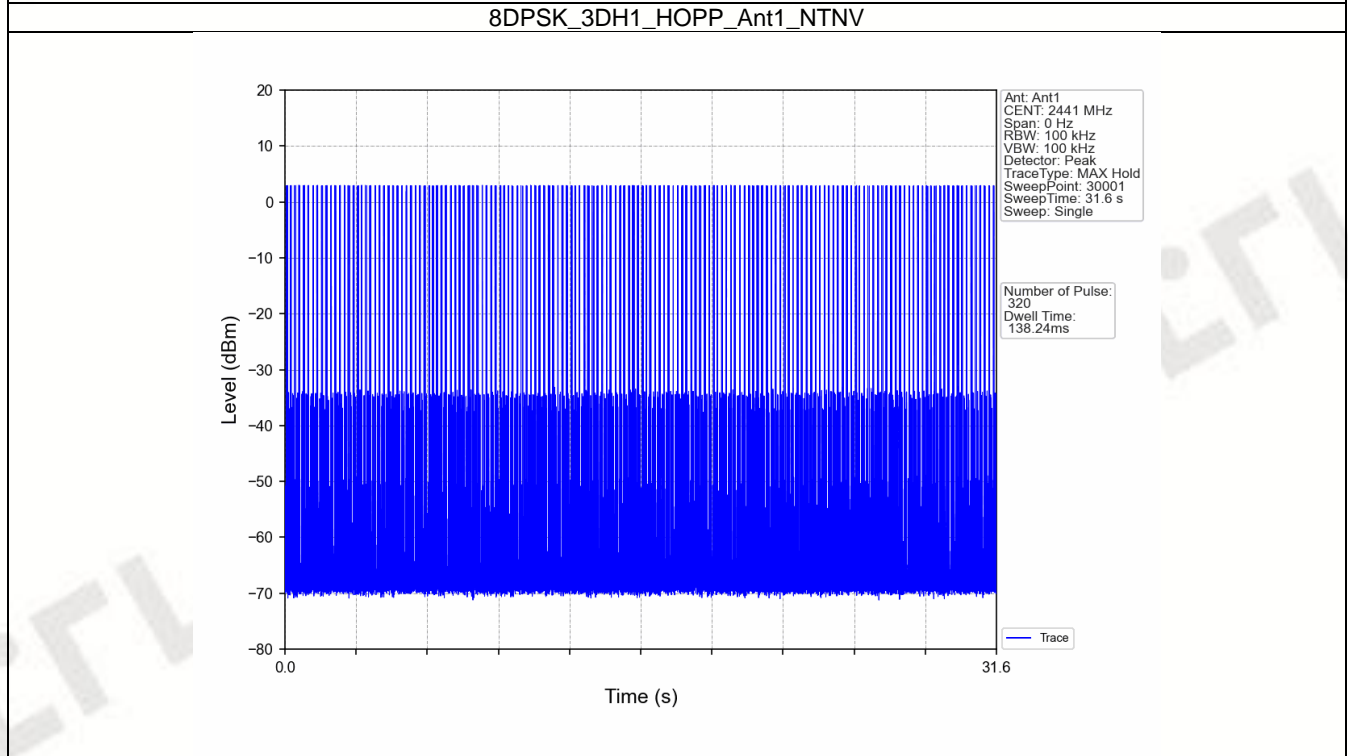
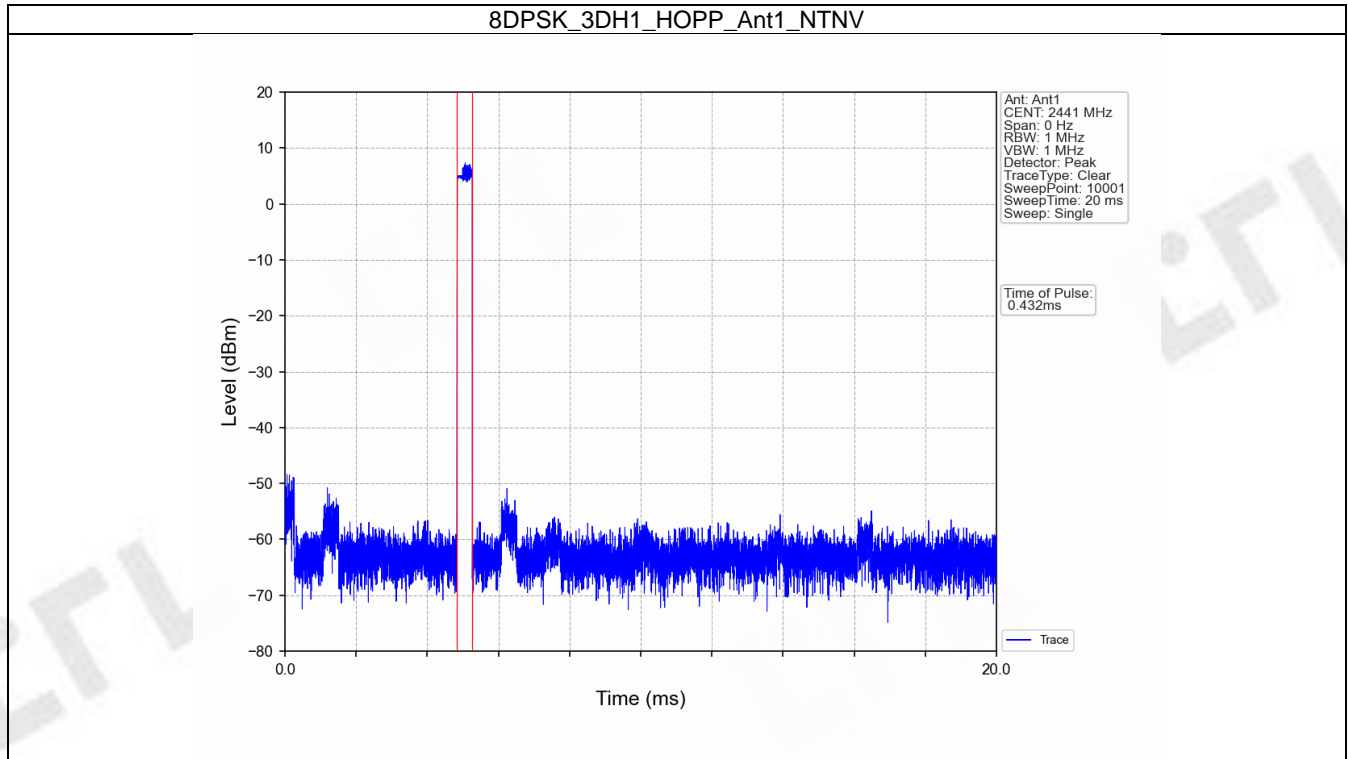
FCCID: 2AC9N-1686124



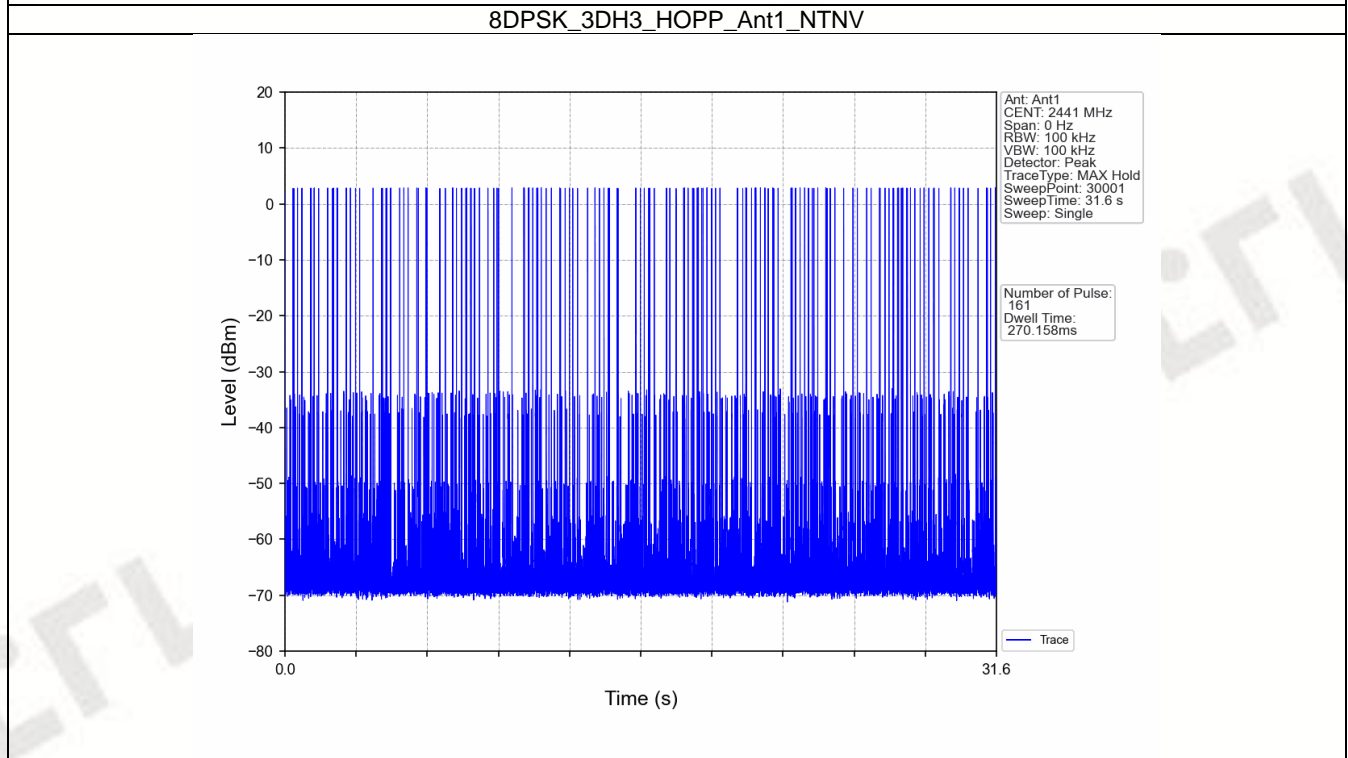
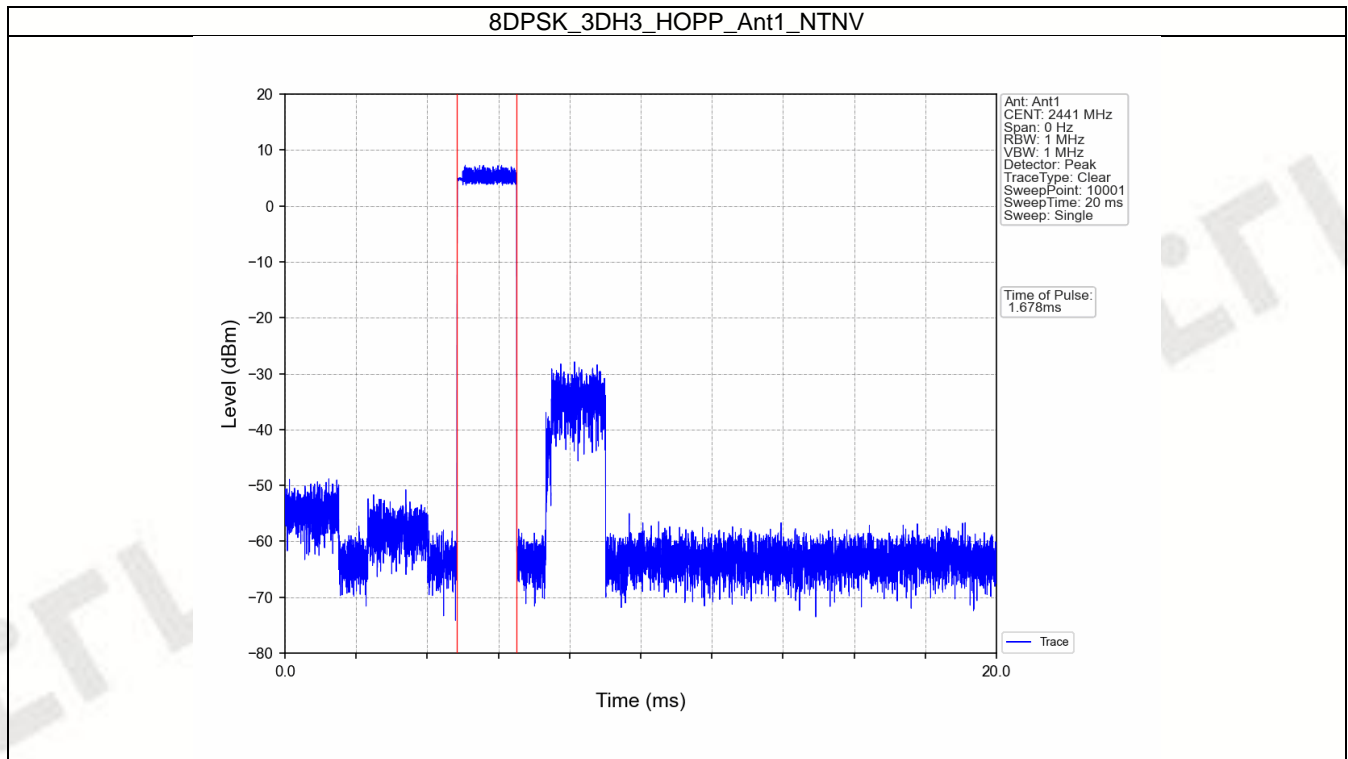
FCCID: 2AC9N-1686124



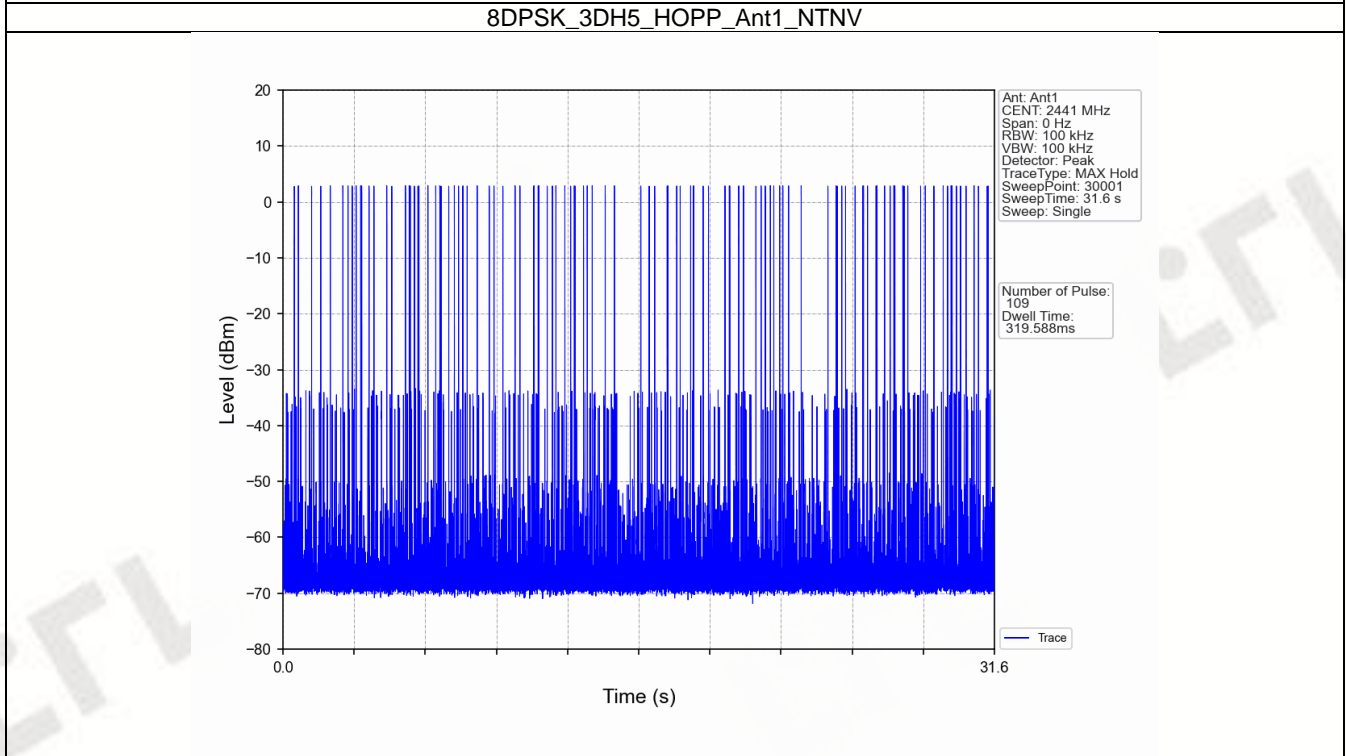
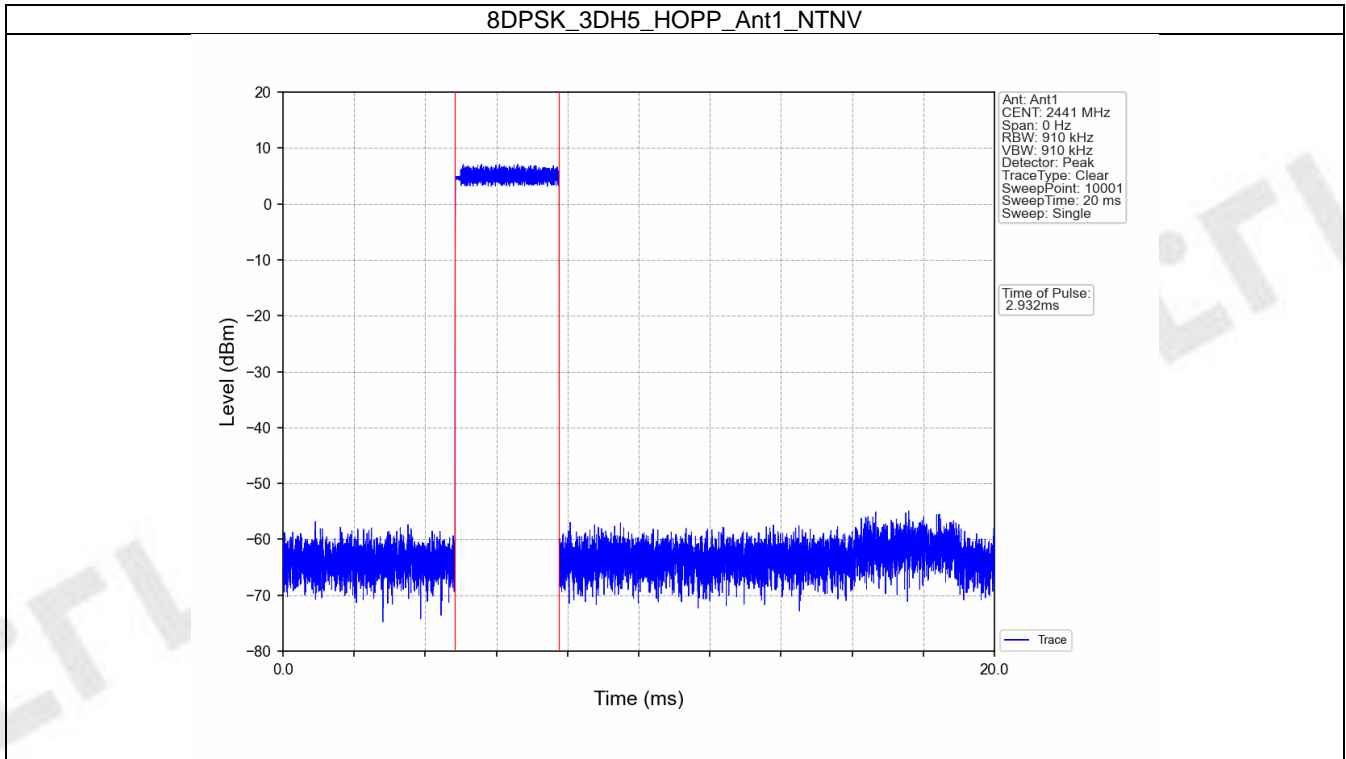
FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124

6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

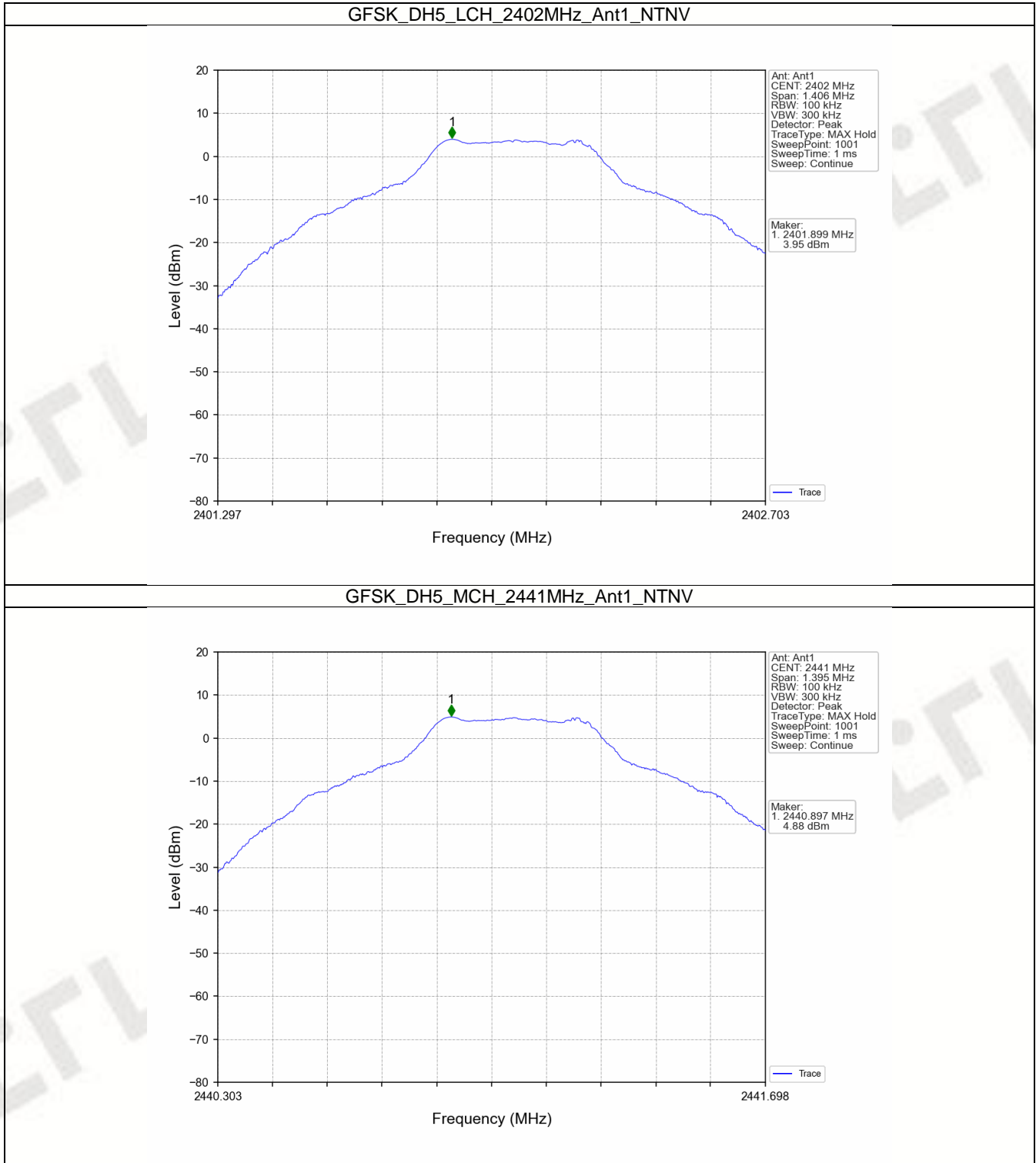
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	3.95
		2441	DH5	1	4.88
		2480	DH5	1	4.90
Pi/4DQPSK	SISO	2402	2DH5	1	3.83
		2441	2DH5	1	4.76
		2480	2DH5	1	4.83
8DPSK	SISO	2402	3DH5	1	3.96
		2441	3DH5	1	4.89
		2480	3DH5	1	4.93

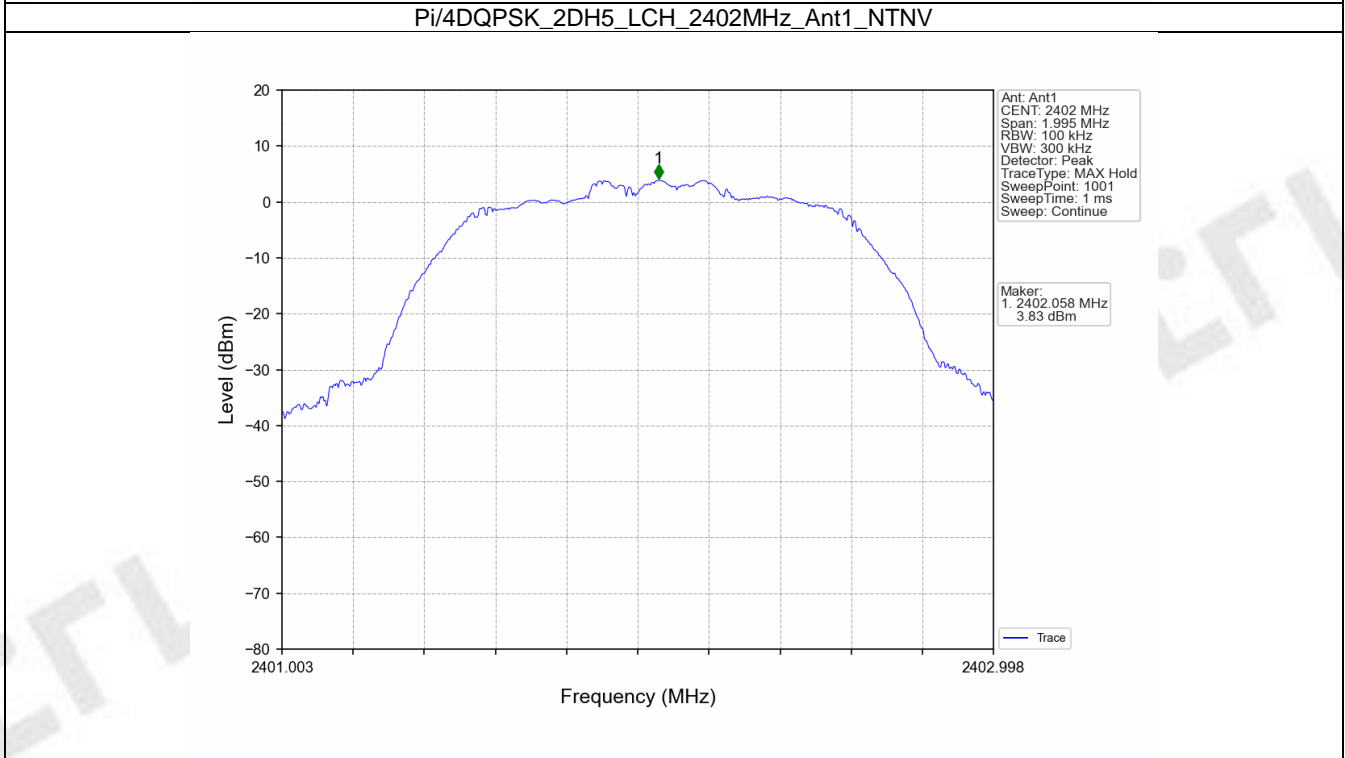
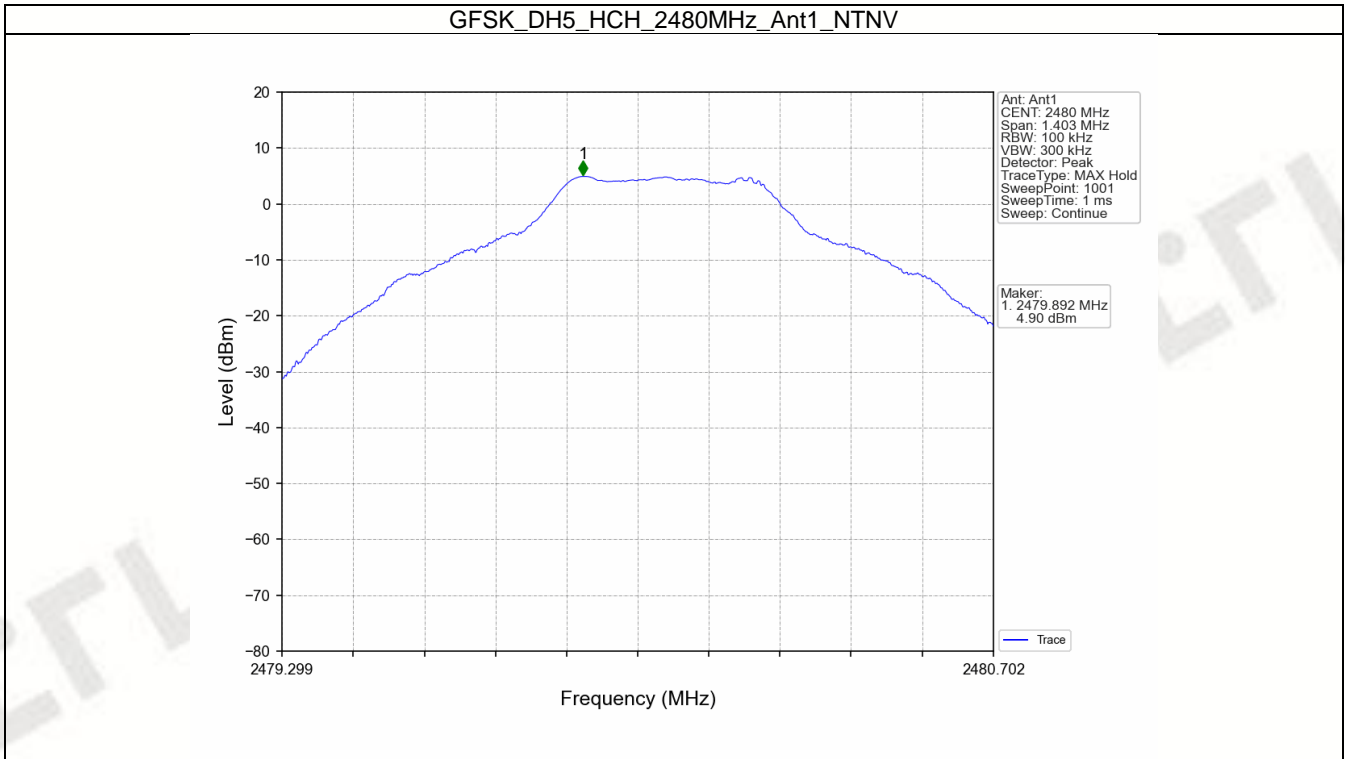
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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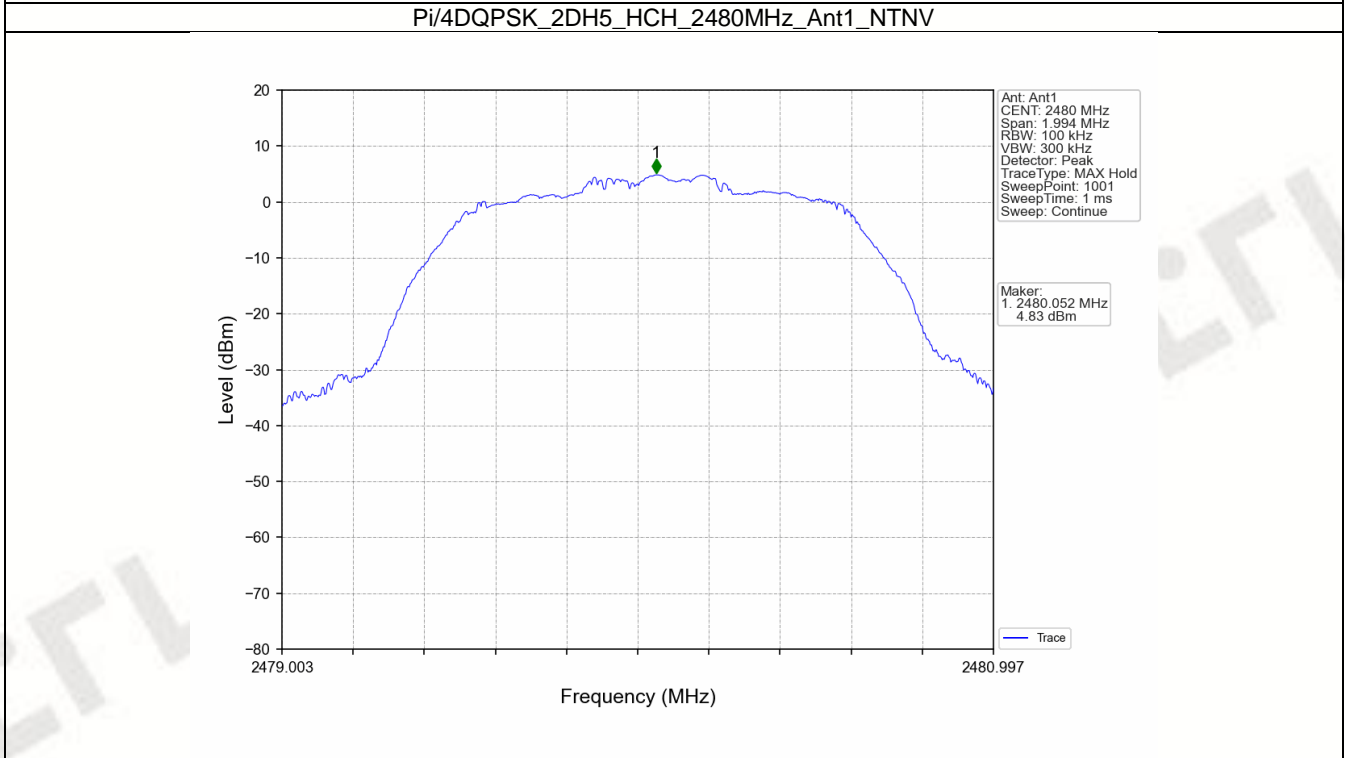
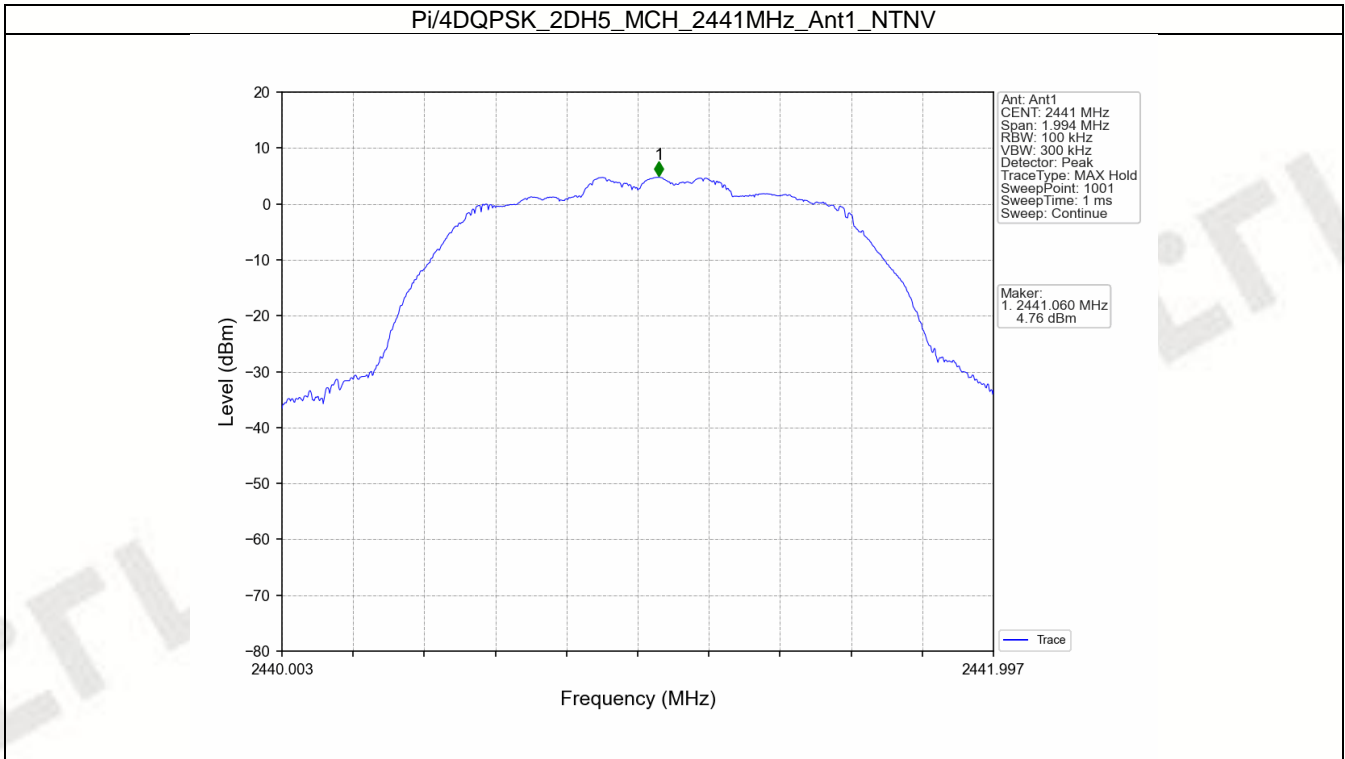
6.1.2 Test Graph



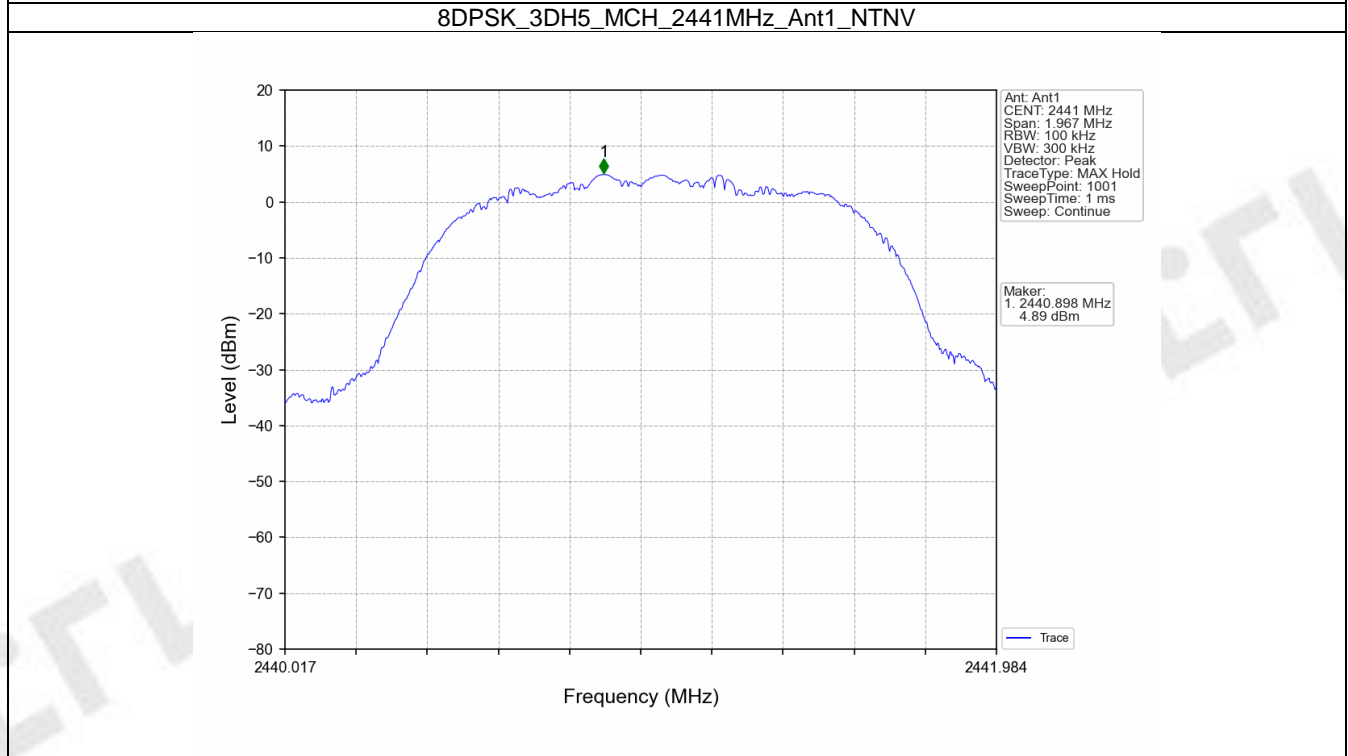
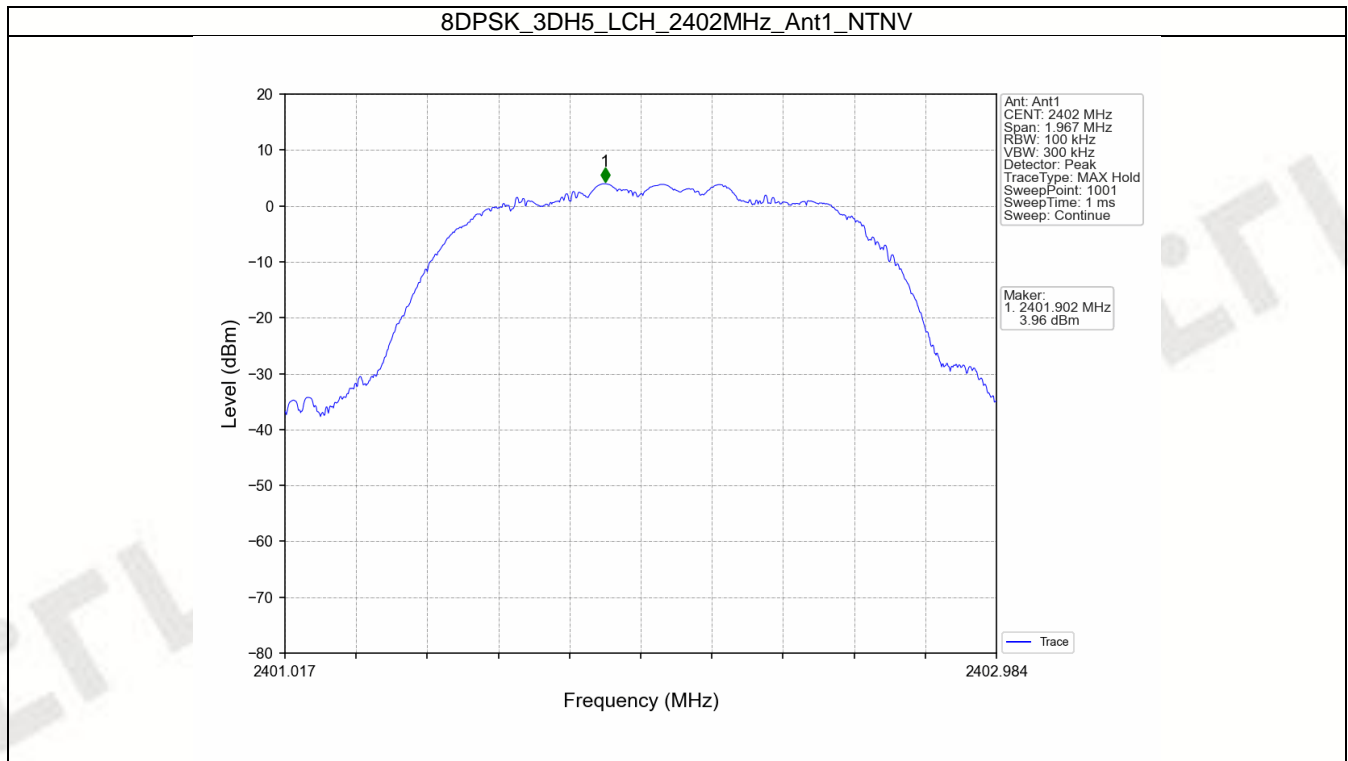
FCCID: 2AC9N-1686124



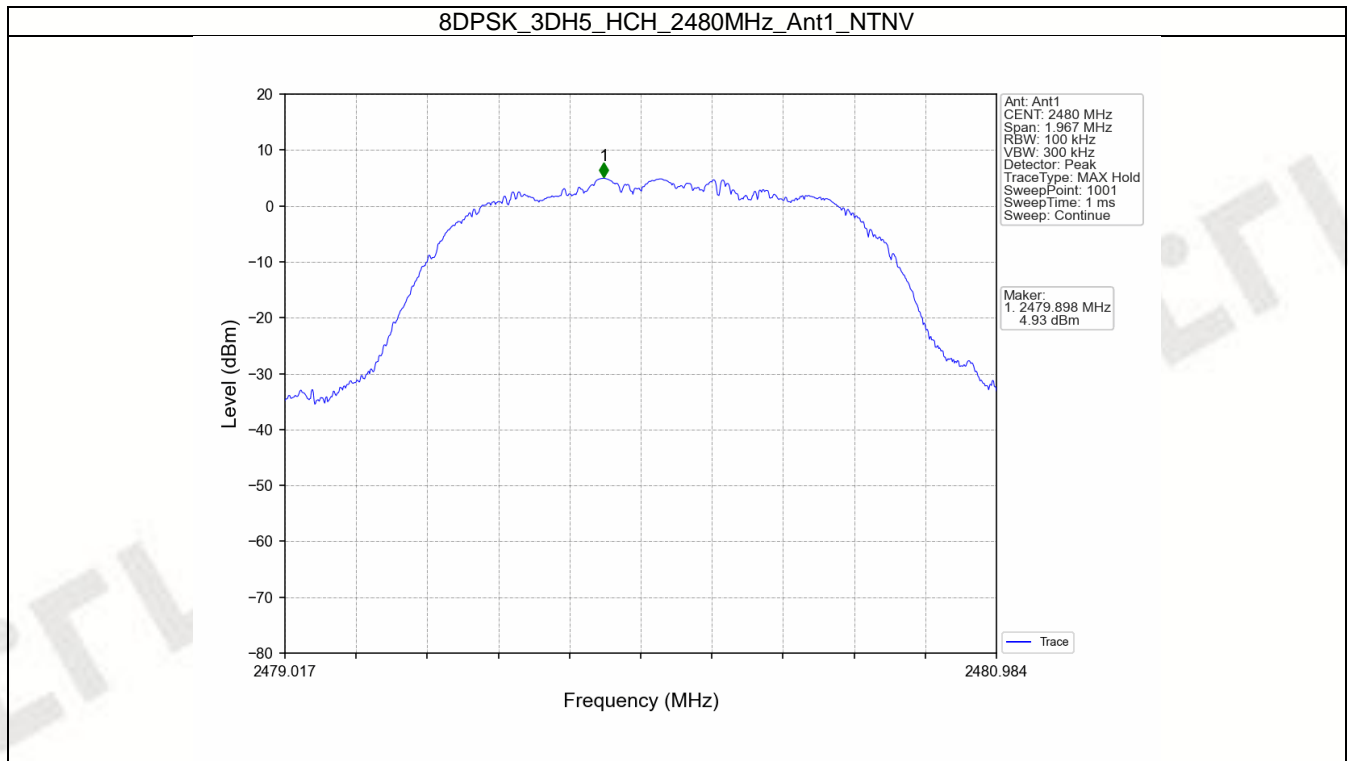
FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124

6.2 CSE

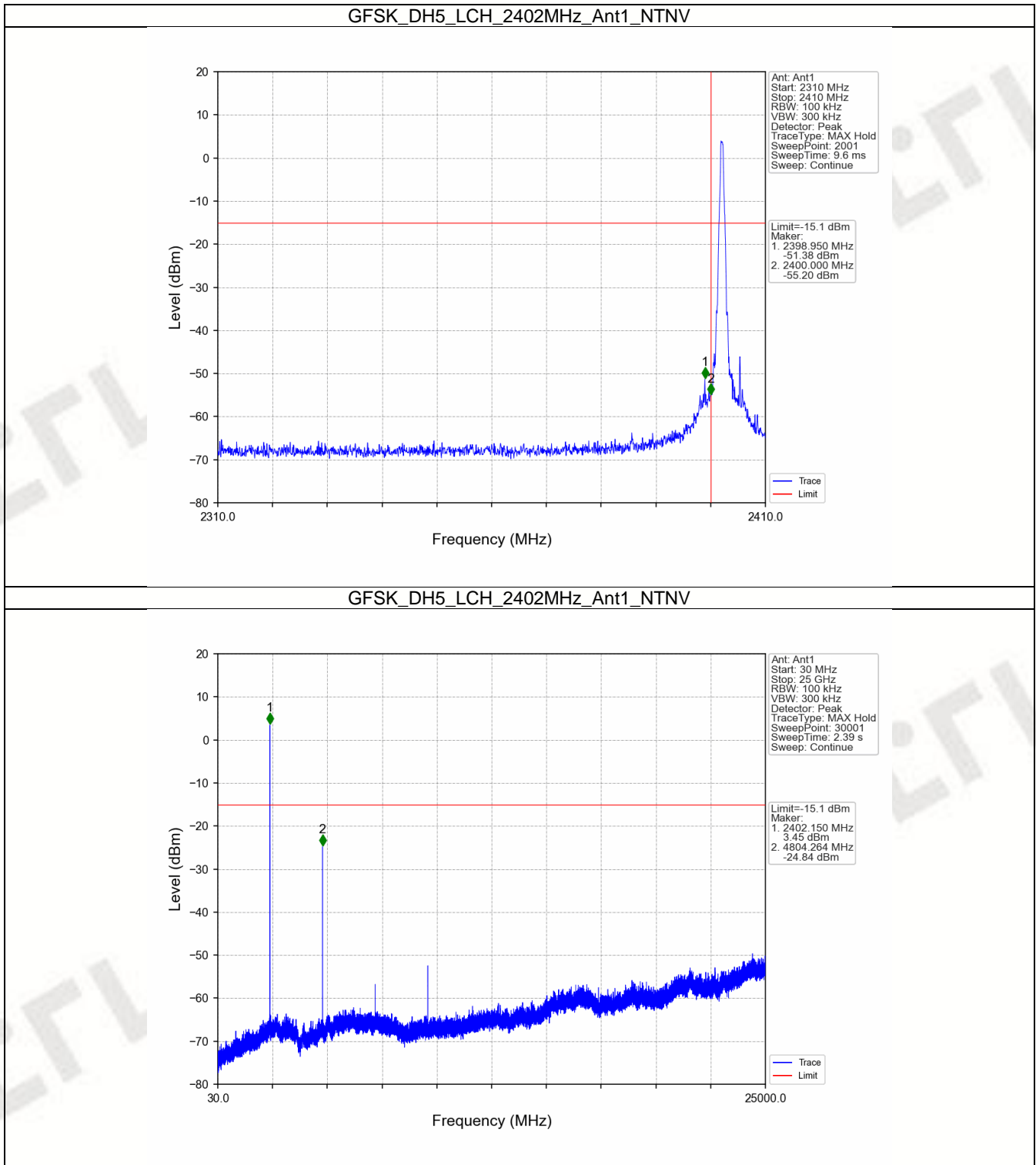
6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	4.90	-15.10	Pass
		2441	DH5	1	4.90	-15.10	Pass
		2480	DH5	1	4.90	-15.10	Pass
		HOPP	DH5	1	4.90	-15.10	Pass
					4.90	-15.10	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	4.83	-15.17	Pass
		2441	2DH5	1	4.83	-15.17	Pass
		2480	2DH5	1	4.83	-15.17	Pass
		HOPP	2DH5	1	4.83	-15.17	Pass
					4.83	-15.17	Pass
8DPSK	SISO	2402	3DH5	1	4.93	-15.07	Pass
		2441	3DH5	1	4.93	-15.07	Pass
		2480	3DH5	1	4.93	-15.07	Pass
		HOPP	3DH5	1	4.93	-15.07	Pass
					4.93	-15.07	Pass

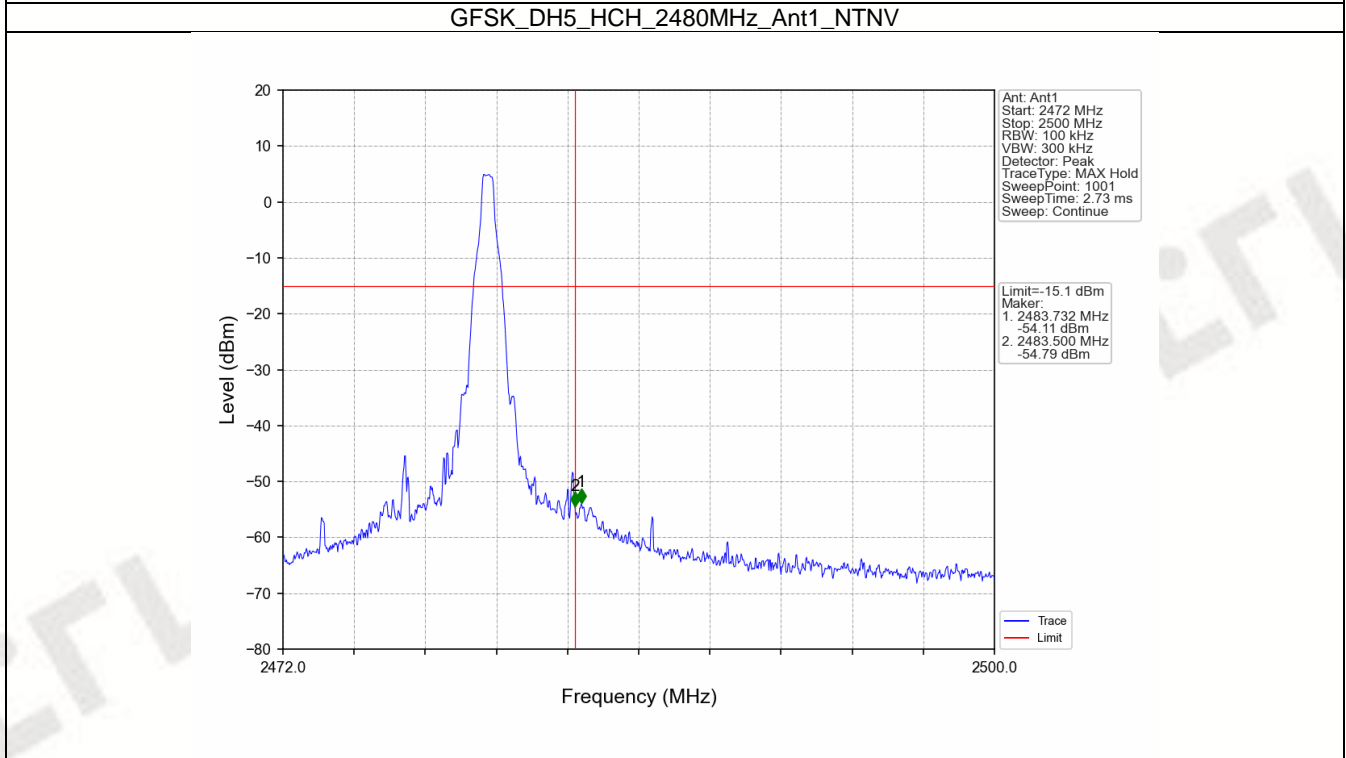
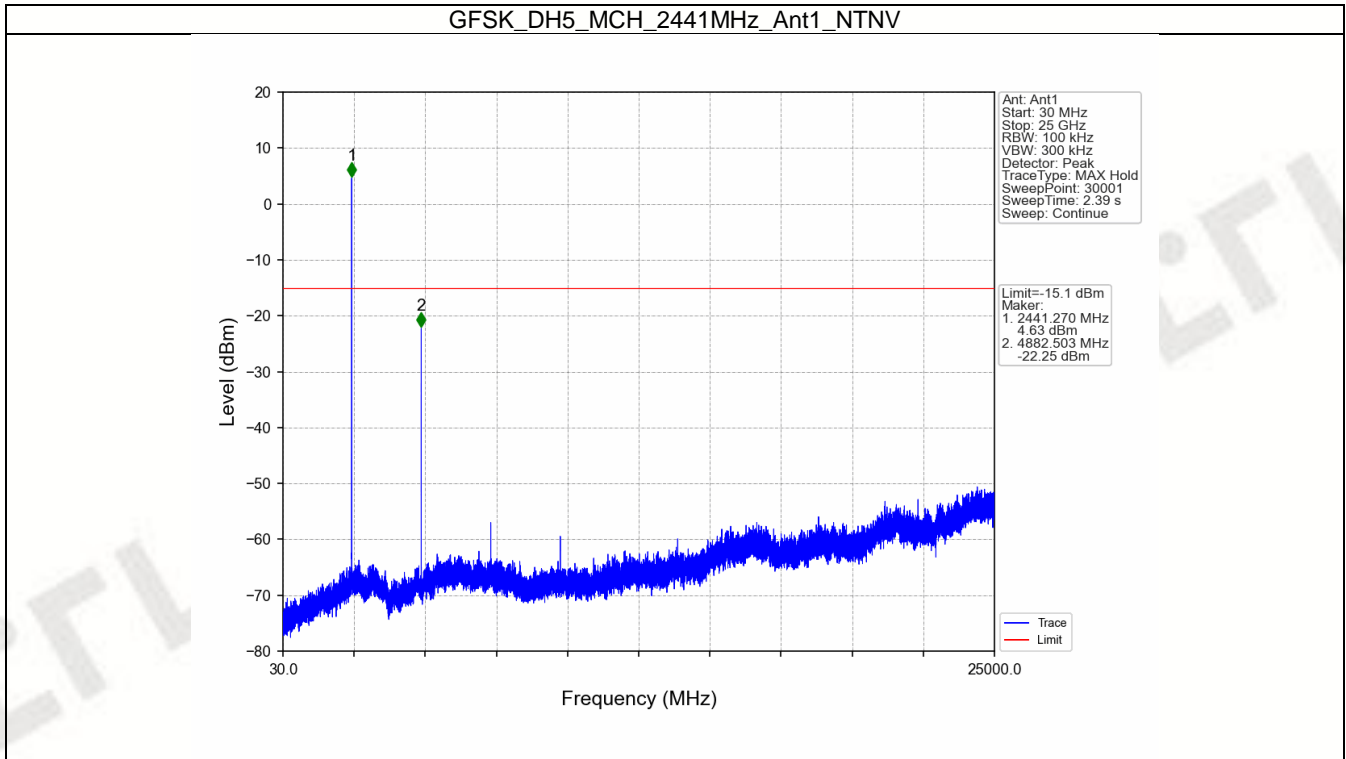
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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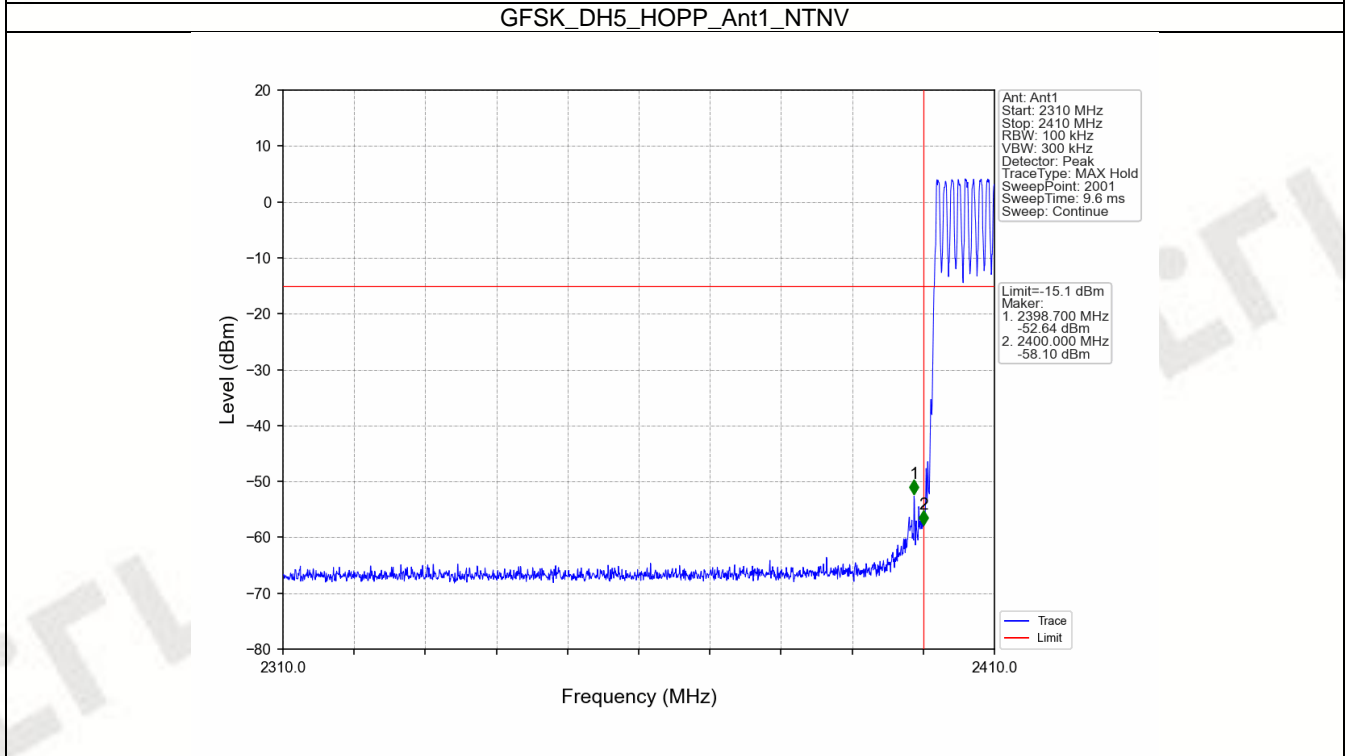
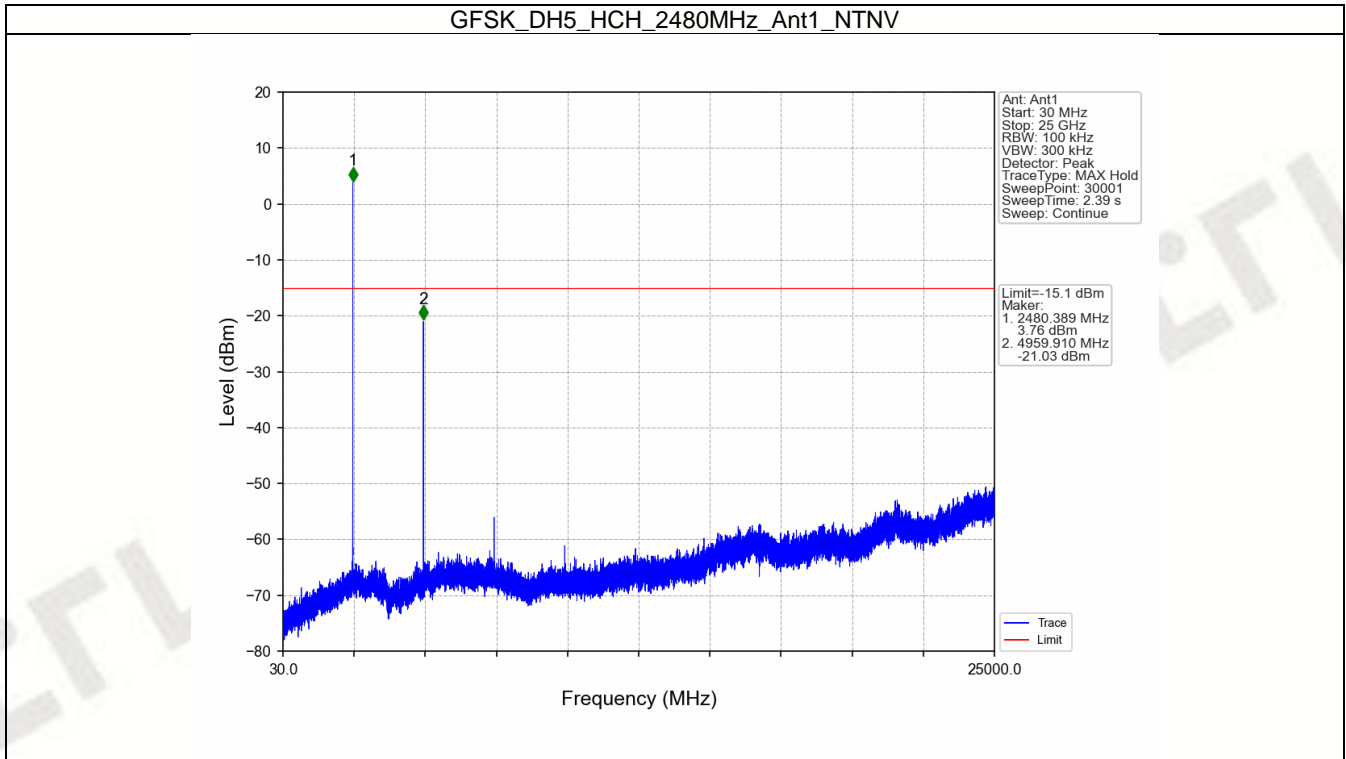
6.2.2 Test Graph



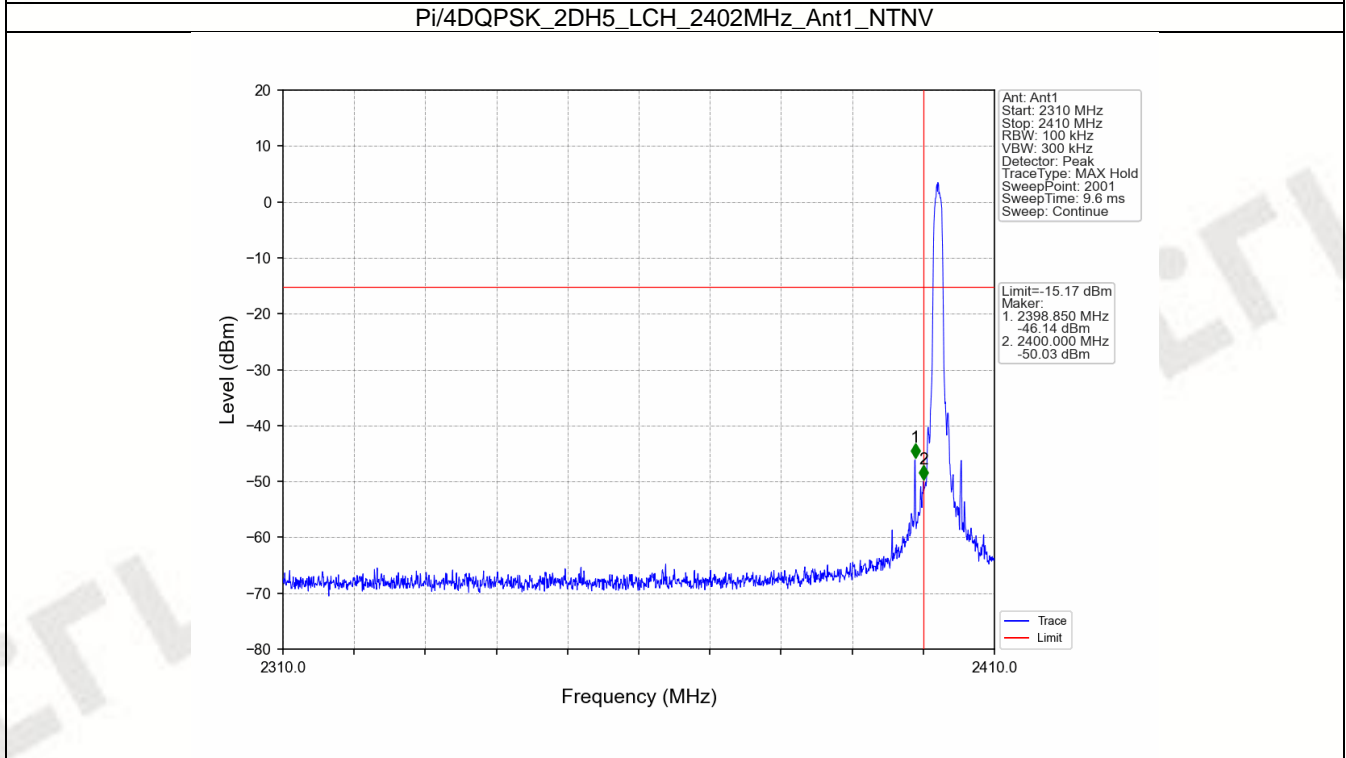
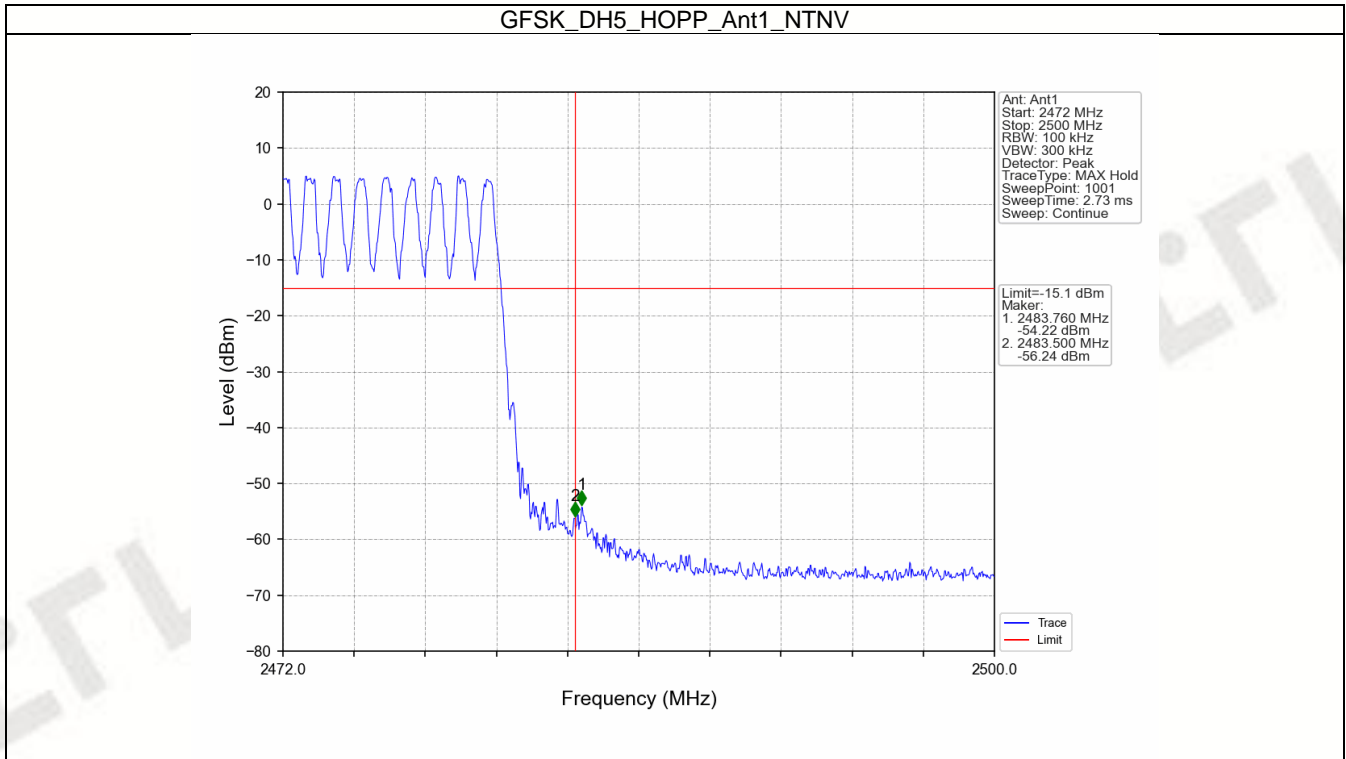
FCCID: 2AC9N-1686124



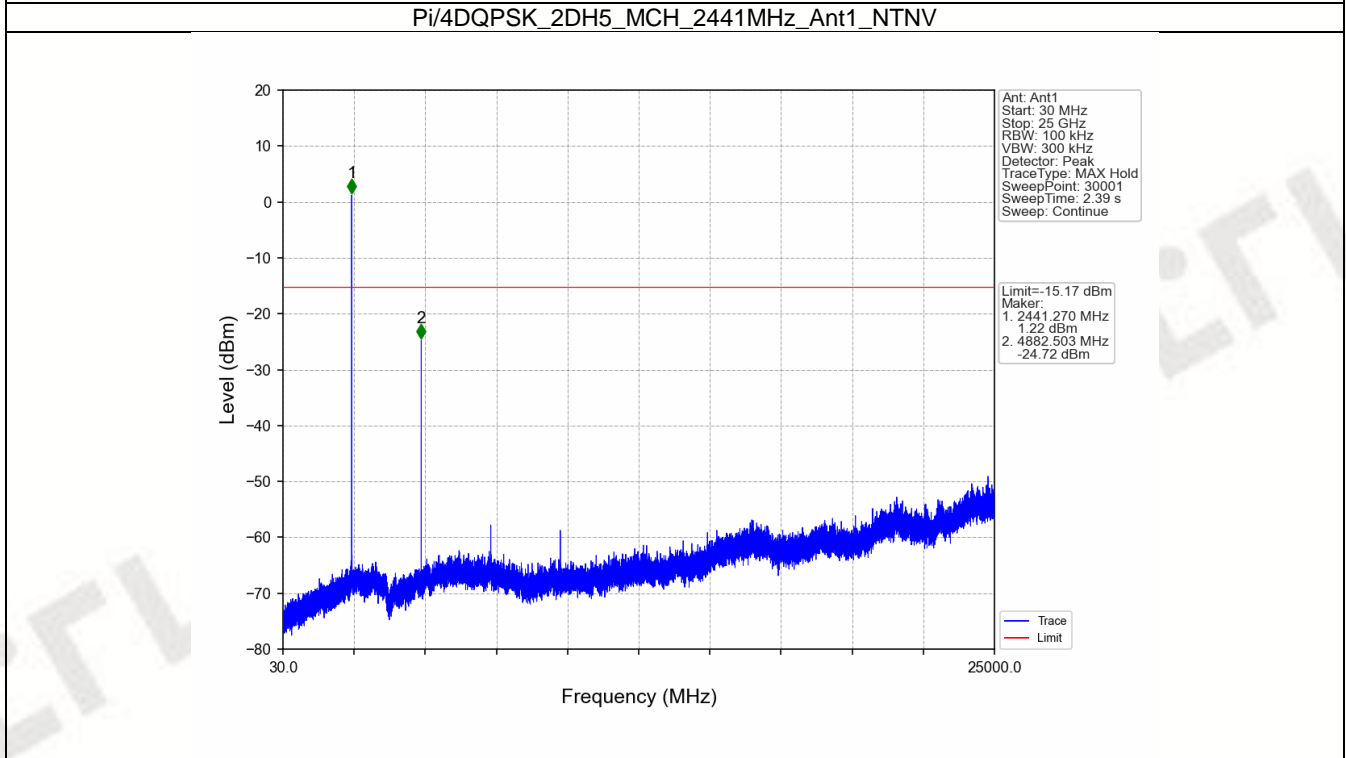
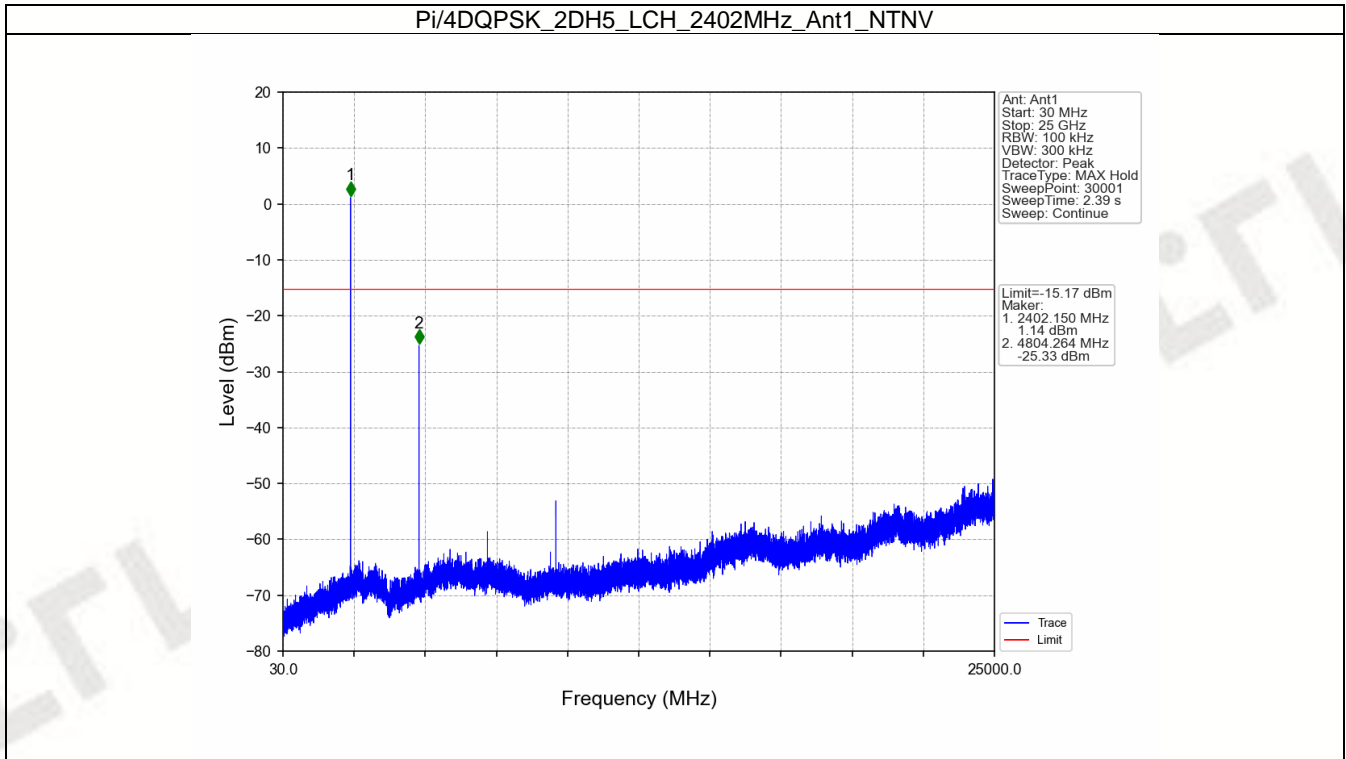
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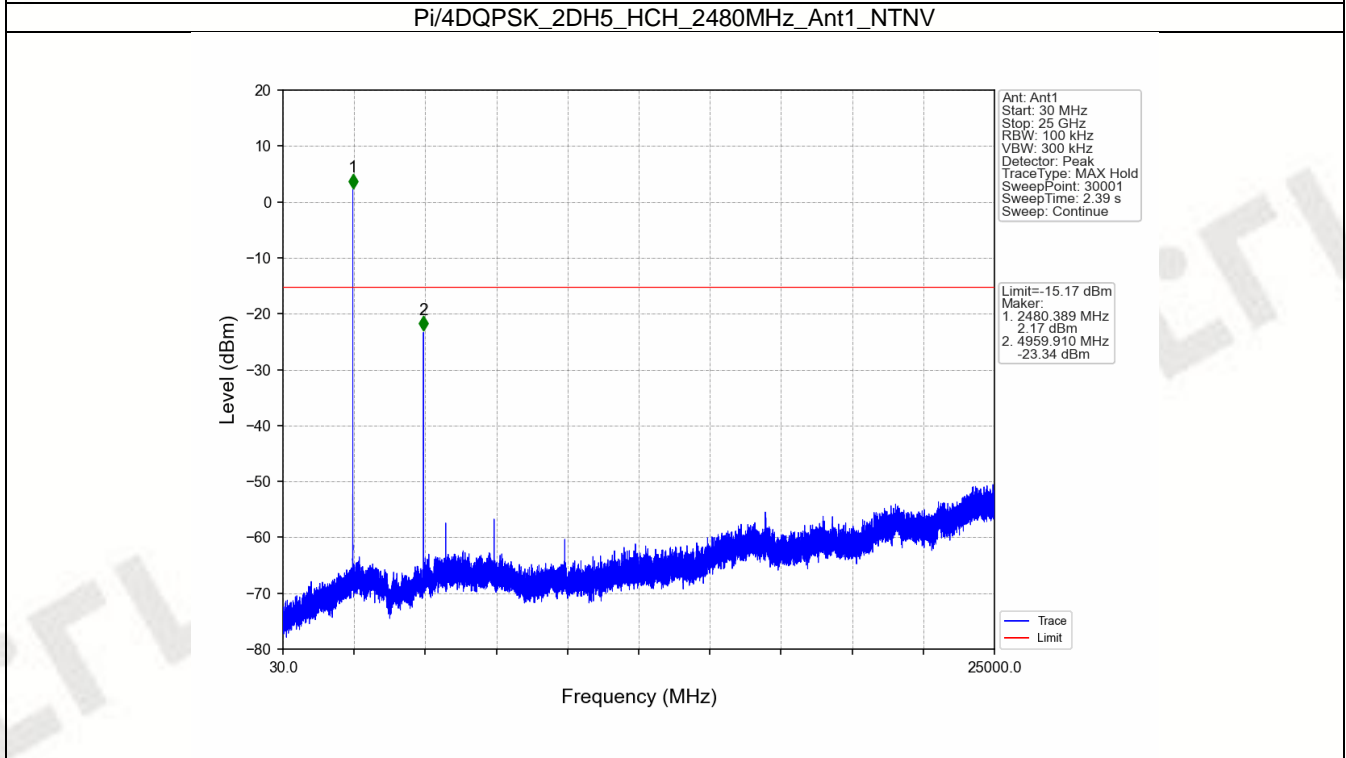
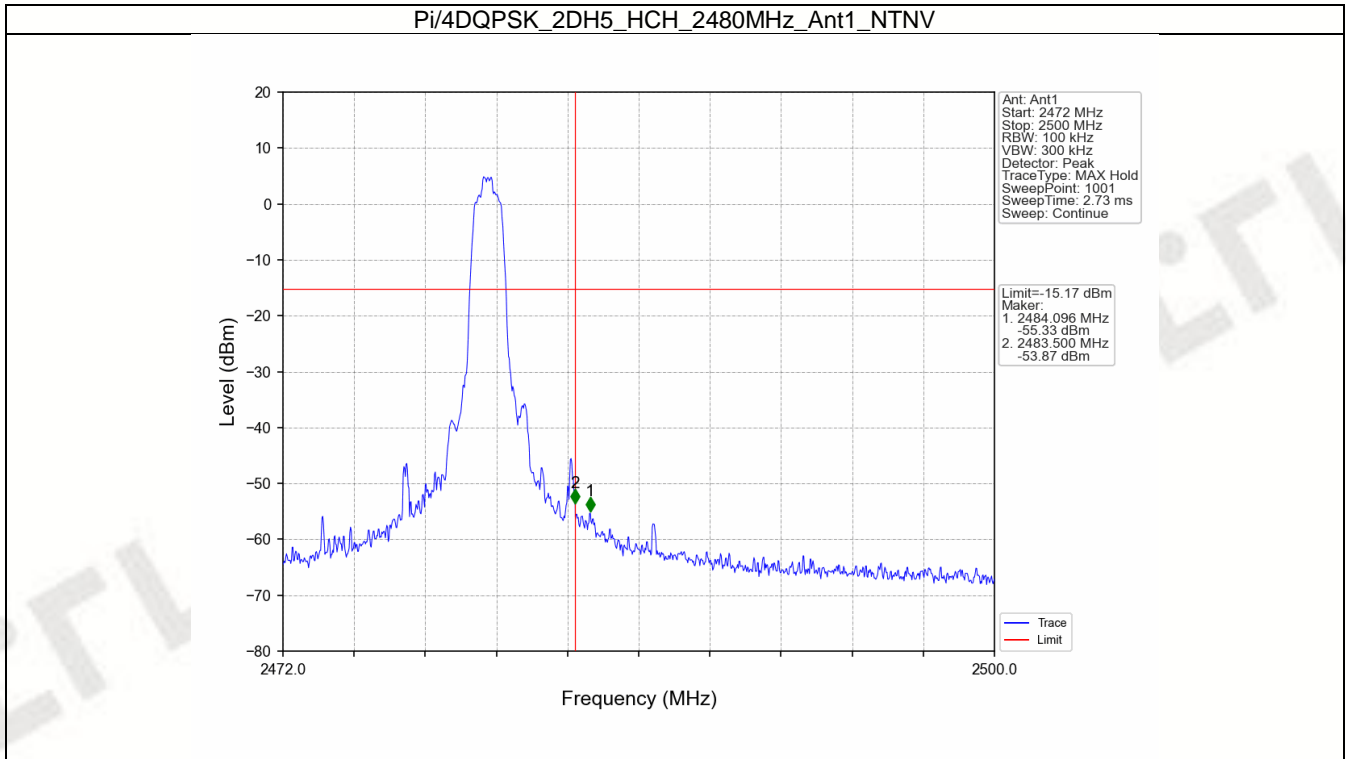


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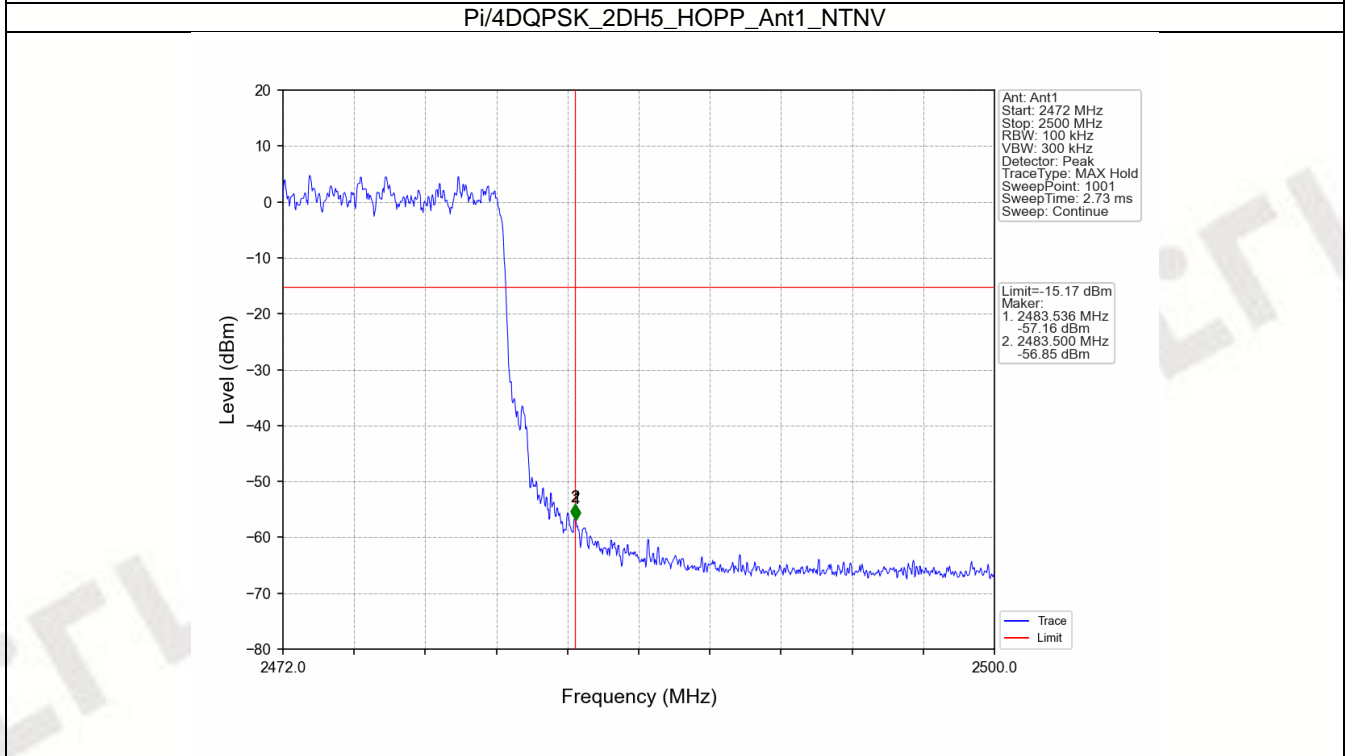
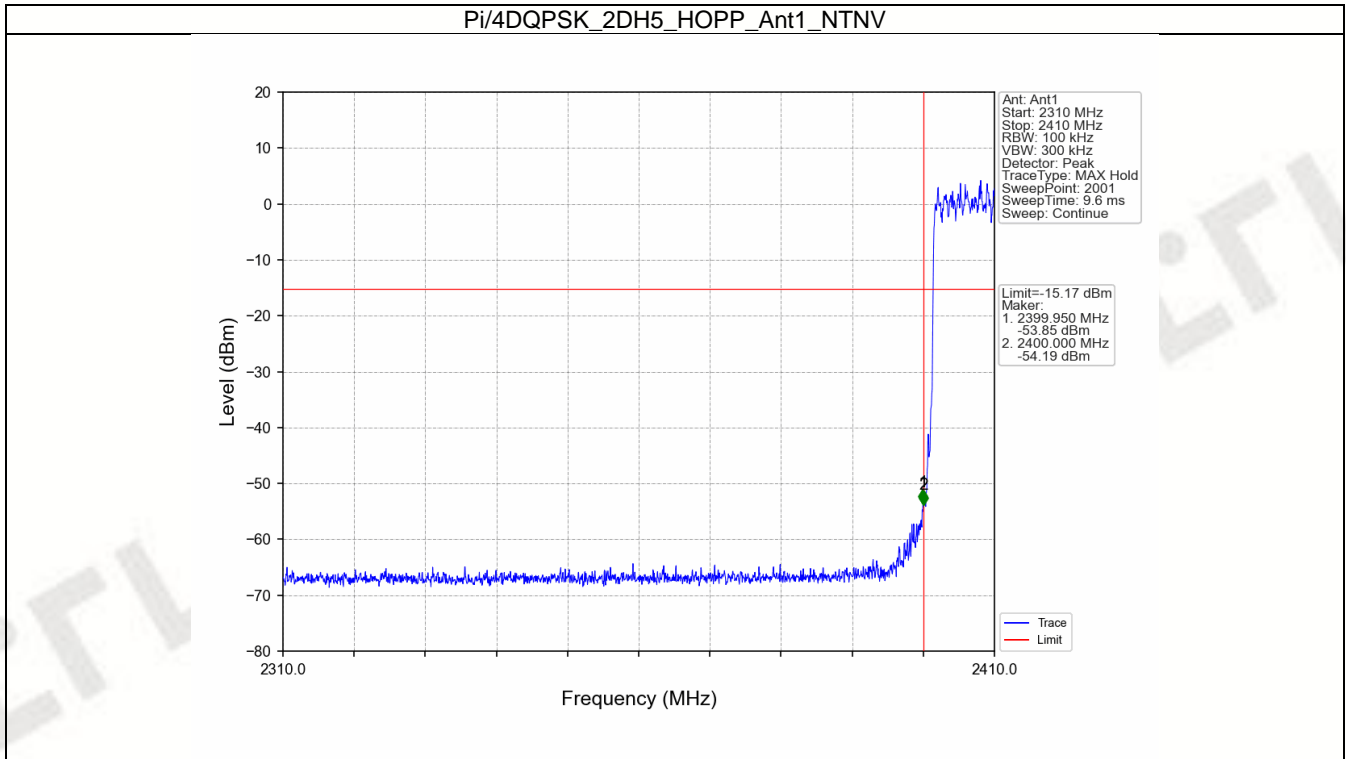


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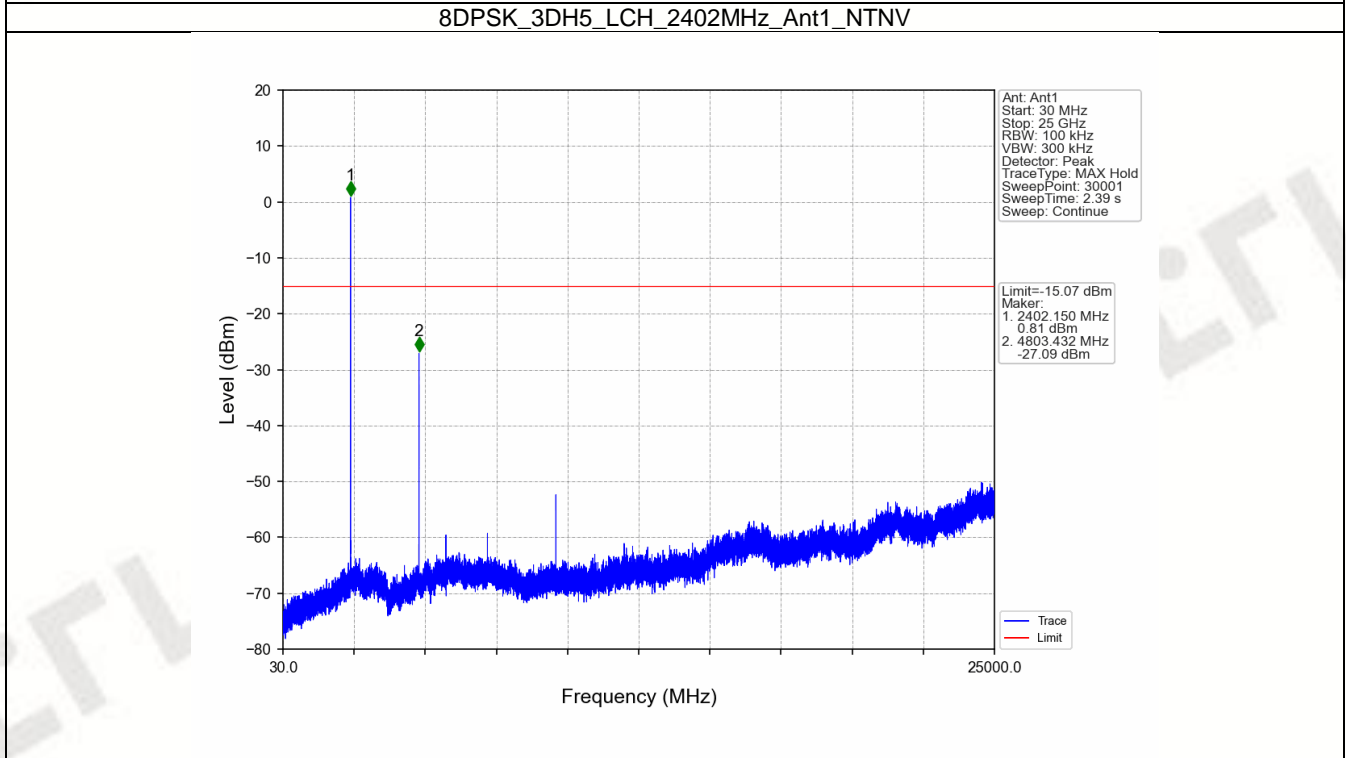
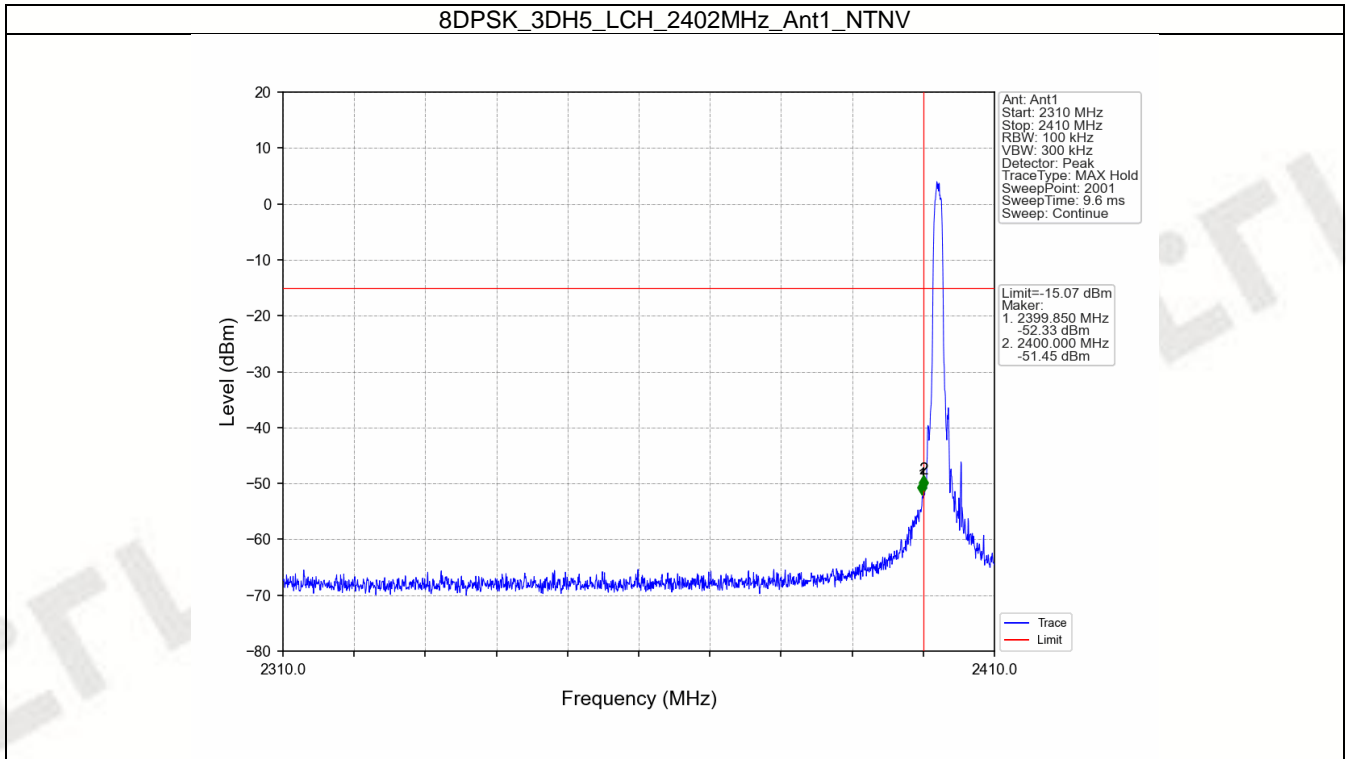




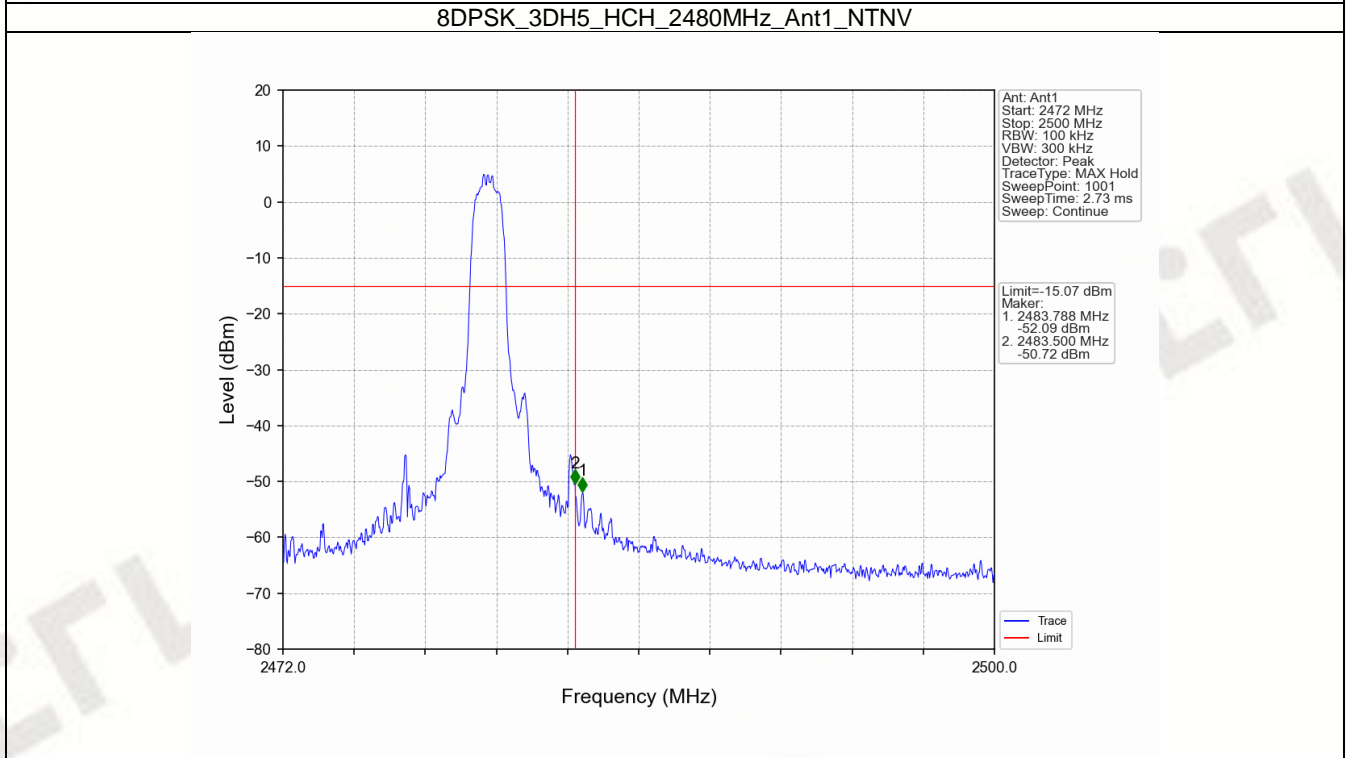
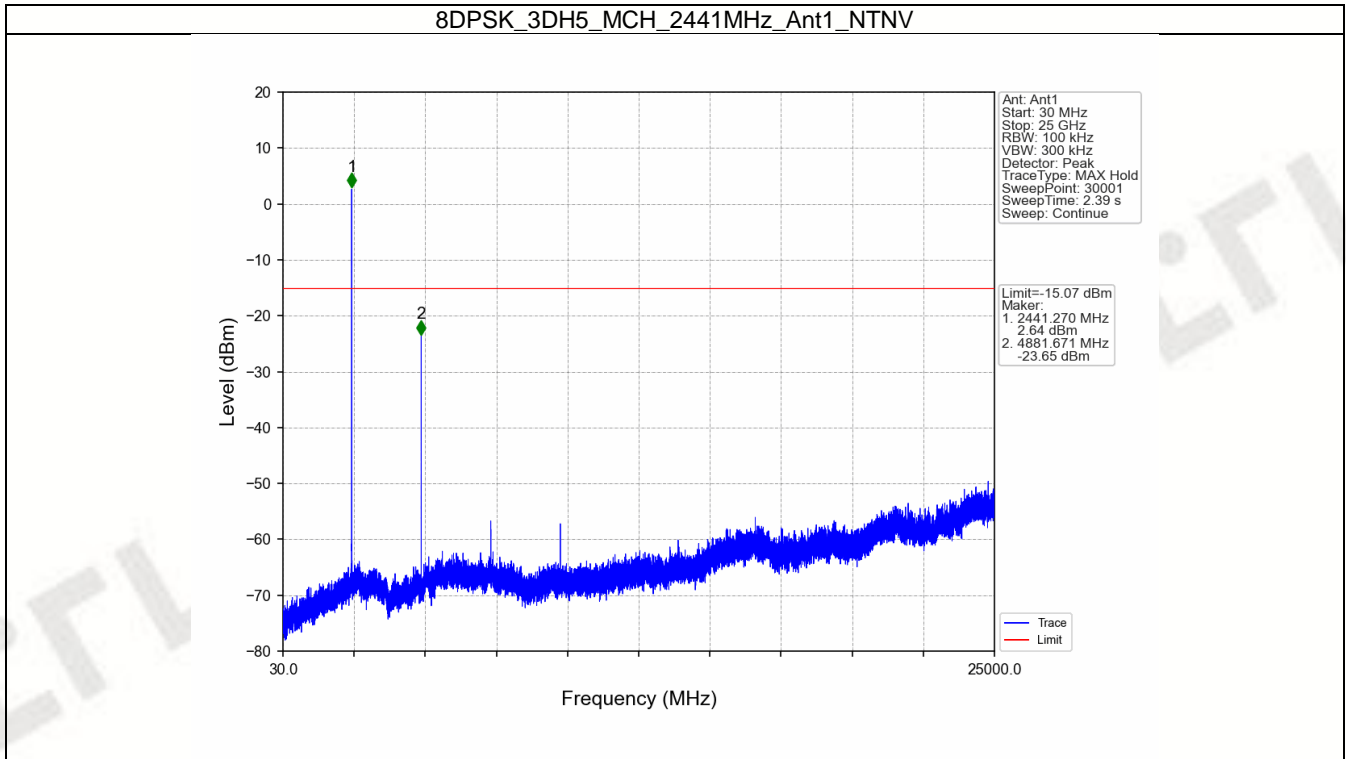
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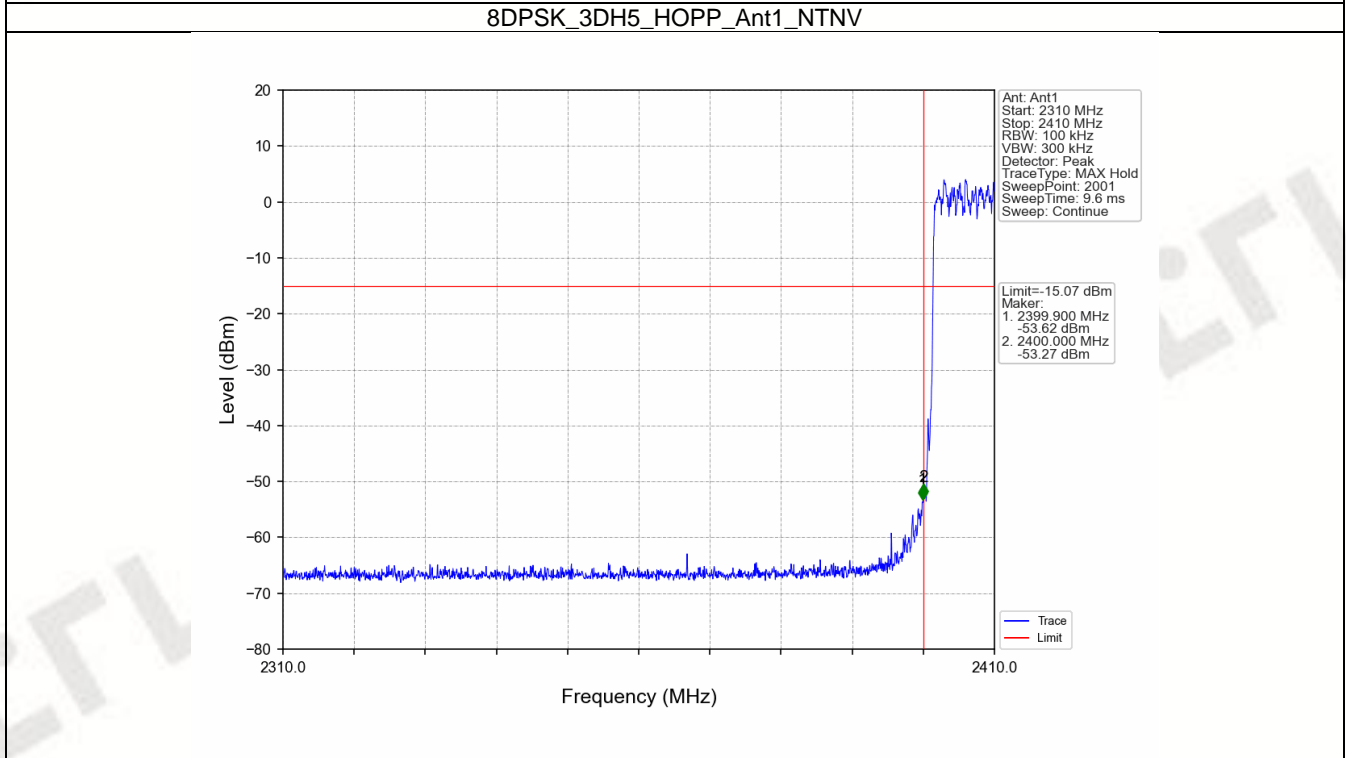
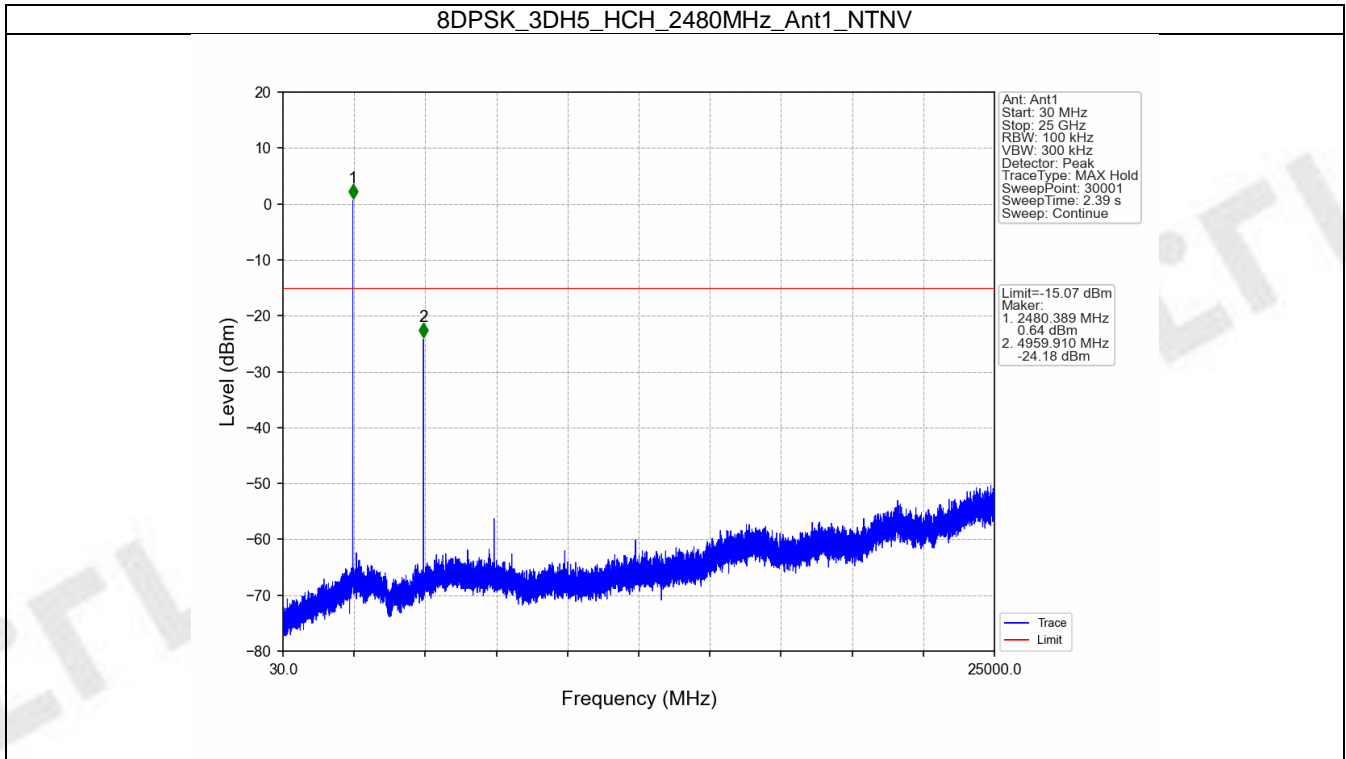
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FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124



FCCID: 2AC9N-1686124

