



Annex for BT

Test Report No.: CTL2401102092-WF

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6.2 CSE 43

6.2.1 Test Result 43

FCCID: 2AU4P-BTS081

1. Bandwidth

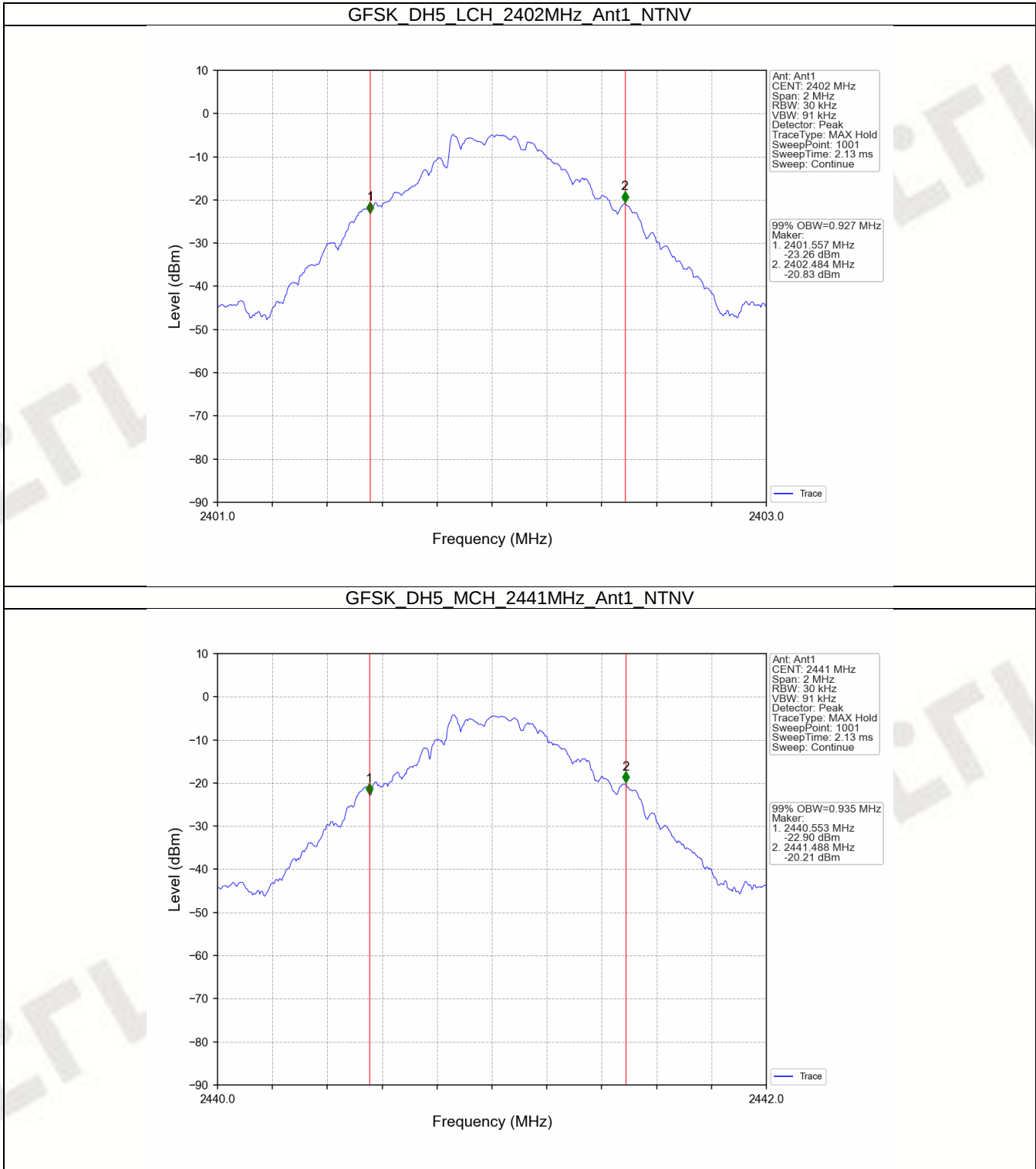
1.1 OBW

1.1.1 Test Result

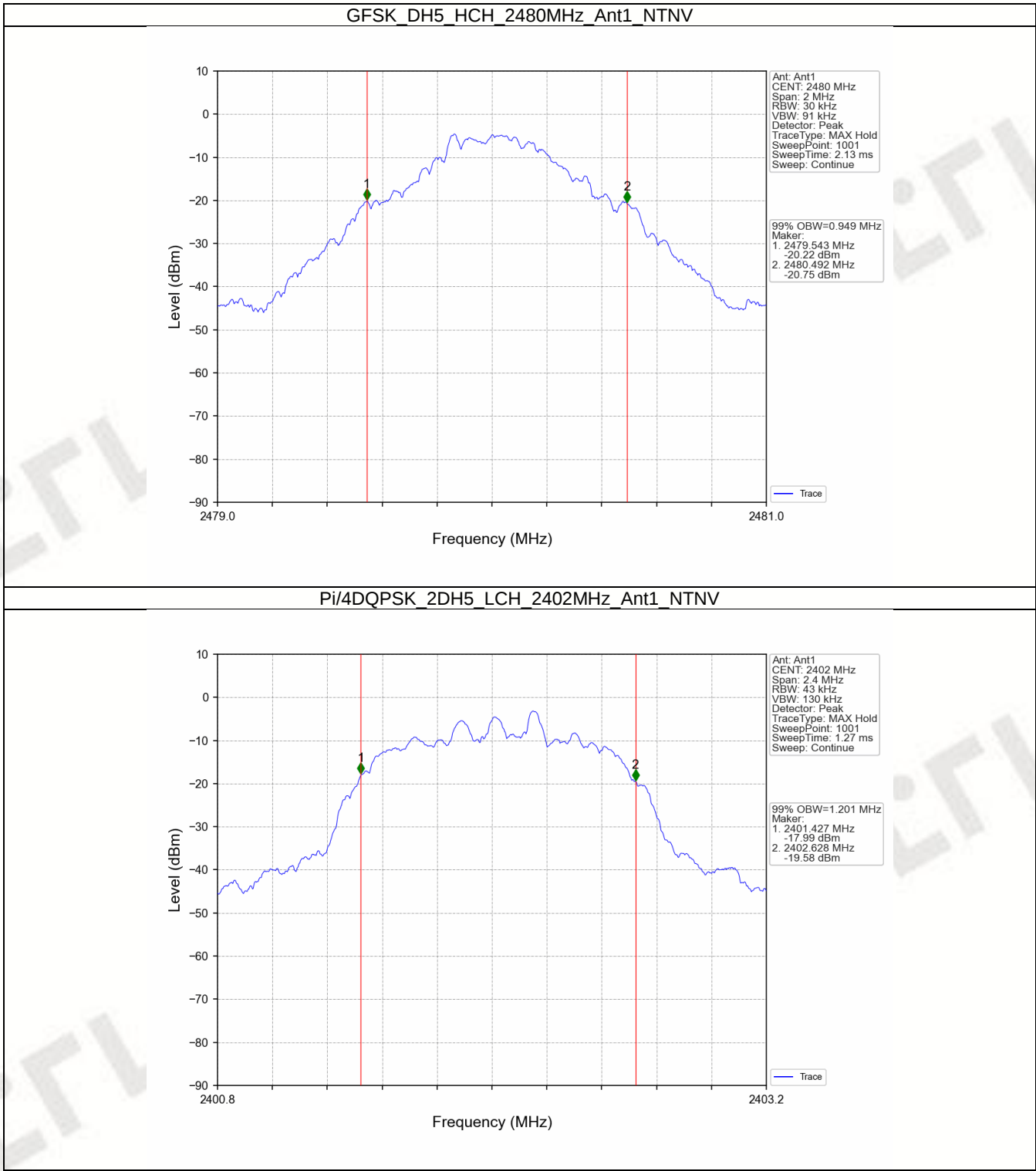
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.927	/	Pass
		2441	DH5	1	0.935	/	Pass
		2480	DH5	1	0.949	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.201	/	Pass
		2441	2DH5	1	1.212	/	Pass
		2480	2DH5	1	1.222	/	Pass
8DPSK	SISO	2402	3DH5	1	1.200	/	Pass
		2441	3DH5	1	1.206	/	Pass
		2480	3DH5	1	1.208	/	Pass

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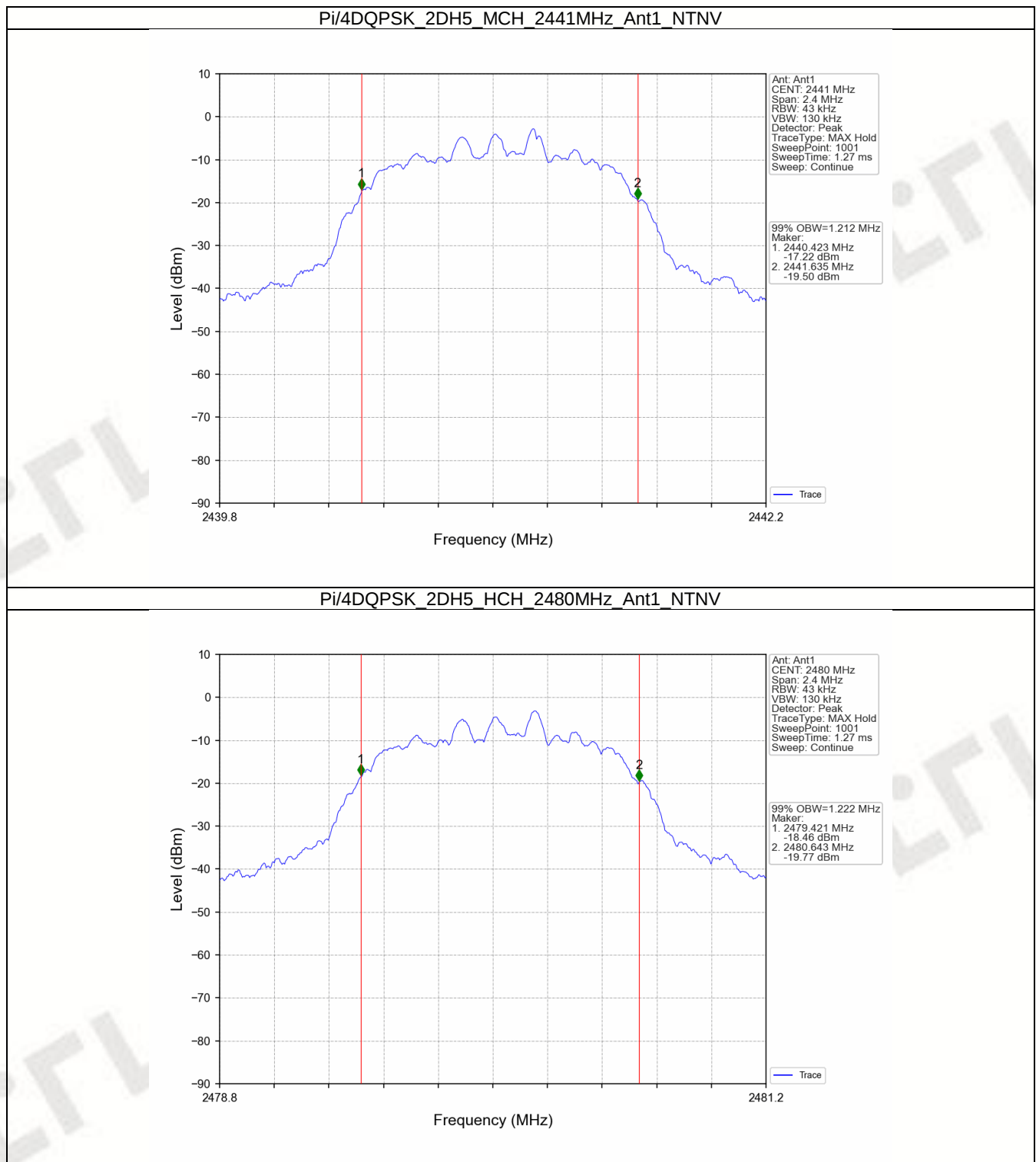
1.1.2 Test Graph



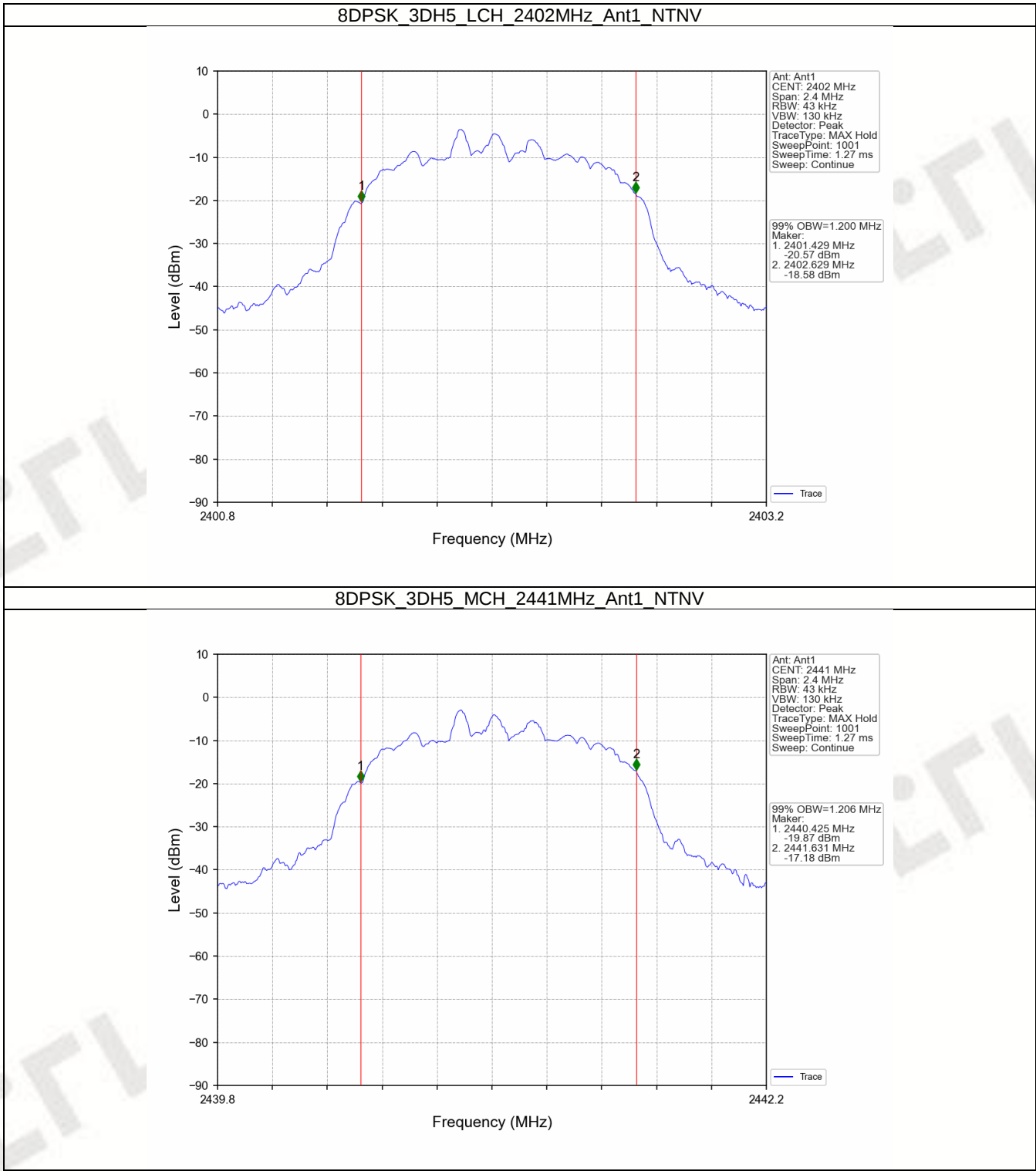
FCCID: 2AU4P-BTS081



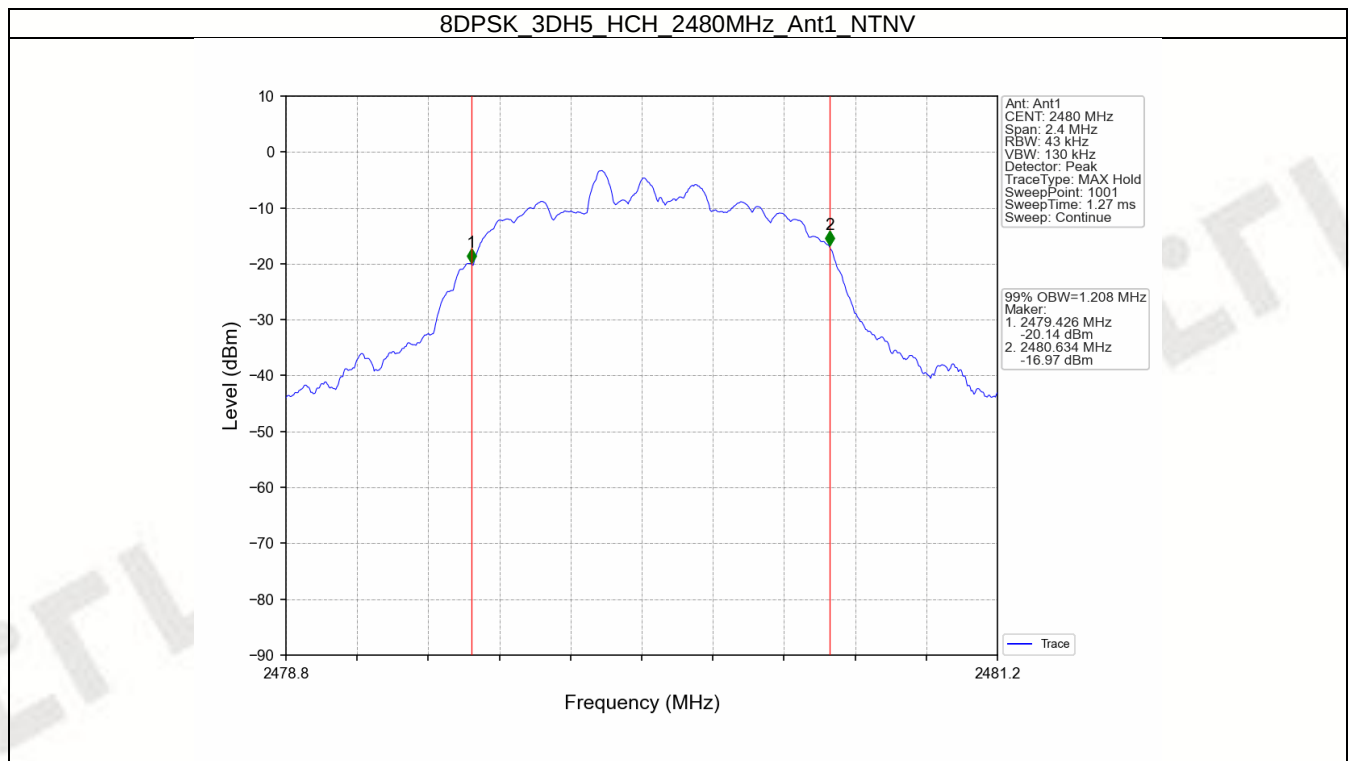
FCCID: 2AU4P-BTS081



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FCCID: 2AU4P-BTS081

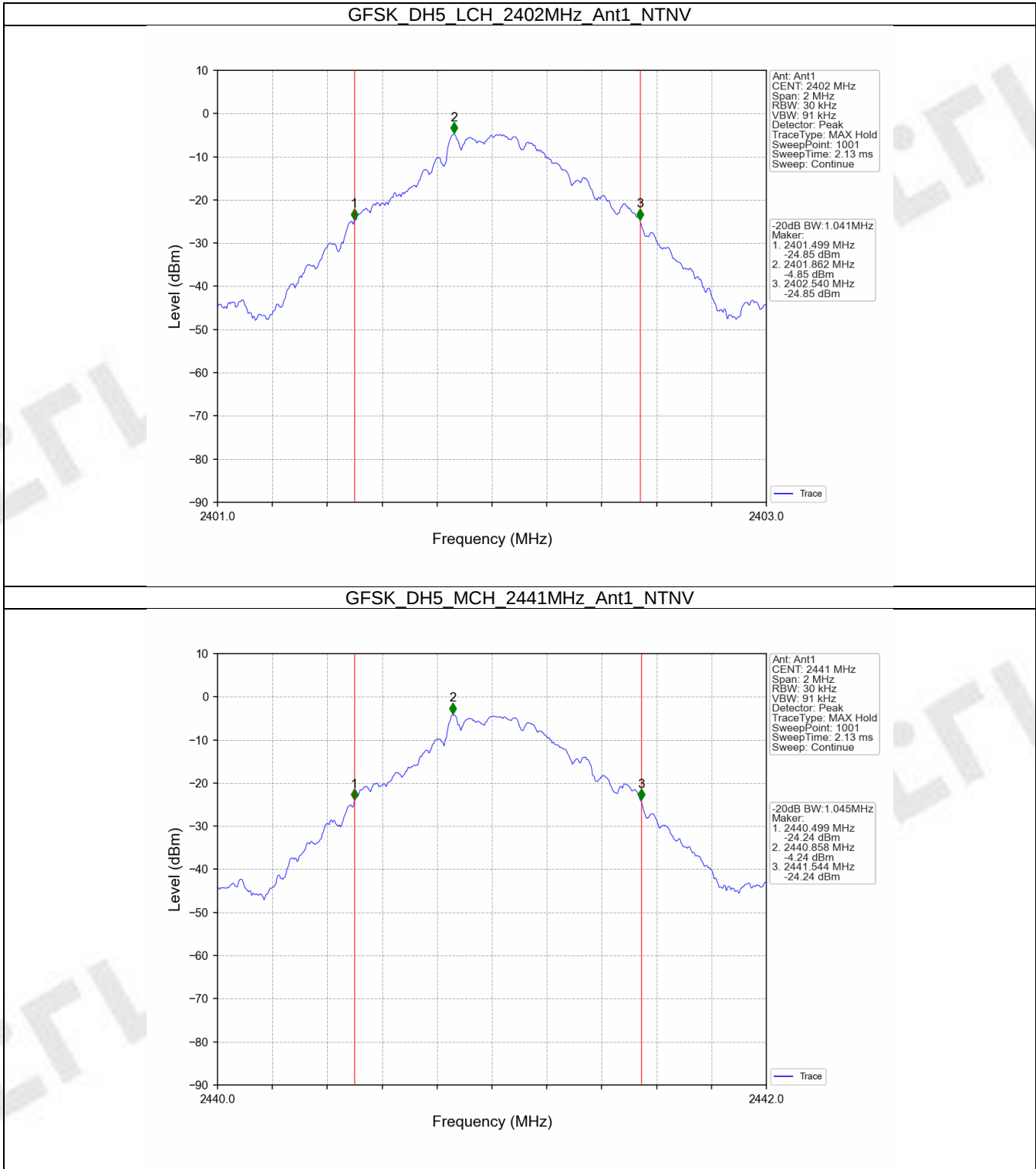
1.2 20dB BW

1.2.1 Test Result

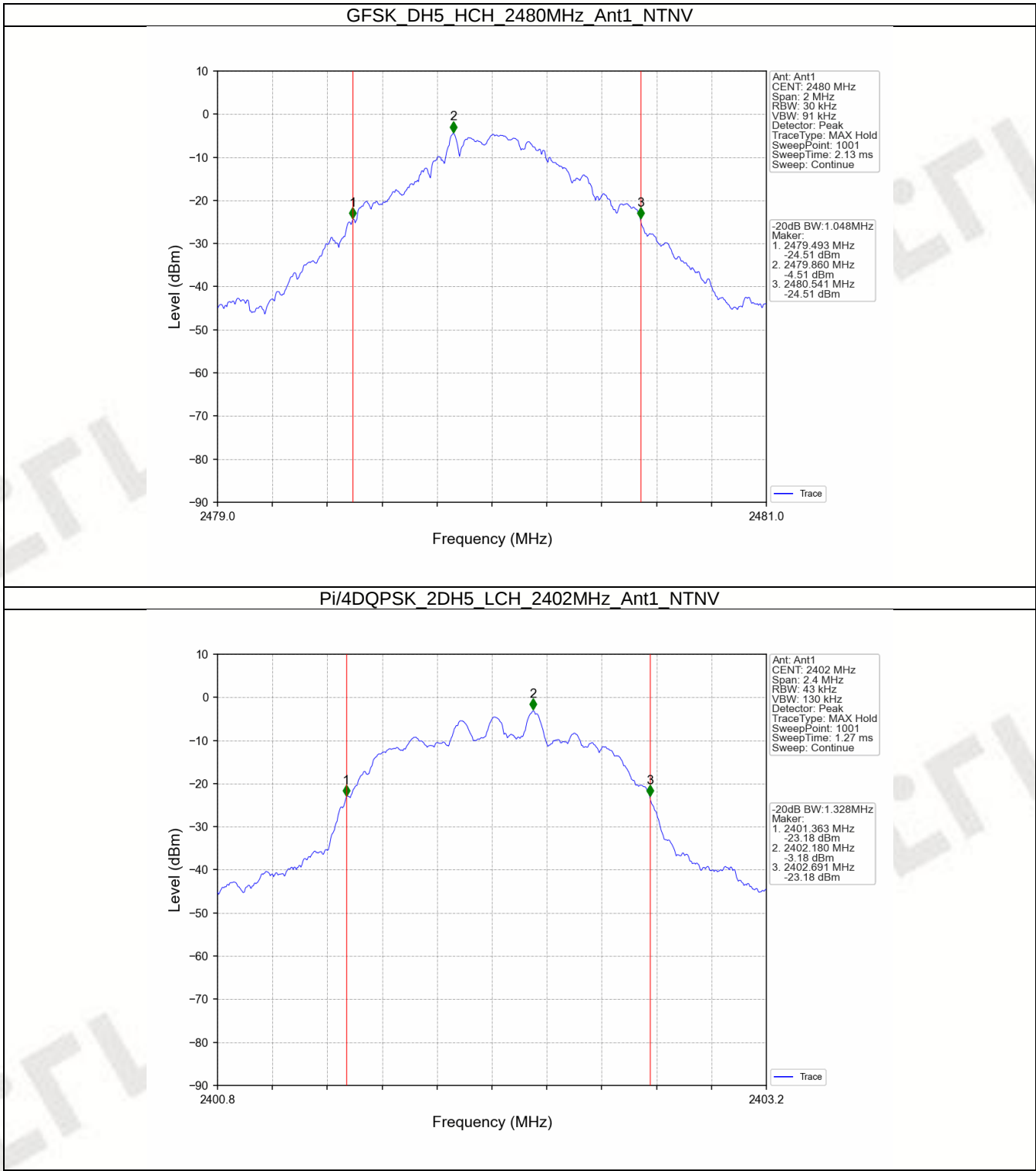
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.041	/	Pass
		2441	DH5	1	1.045	/	Pass
		2480	DH5	1	1.048	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.328	/	Pass
		2441	2DH5	1	1.323	/	Pass
		2480	2DH5	1	1.338	/	Pass
8DPSK	SISO	2402	3DH5	1	1.322	/	Pass
		2441	3DH5	1	1.317	/	Pass
		2480	3DH5	1	1.311	/	Pass

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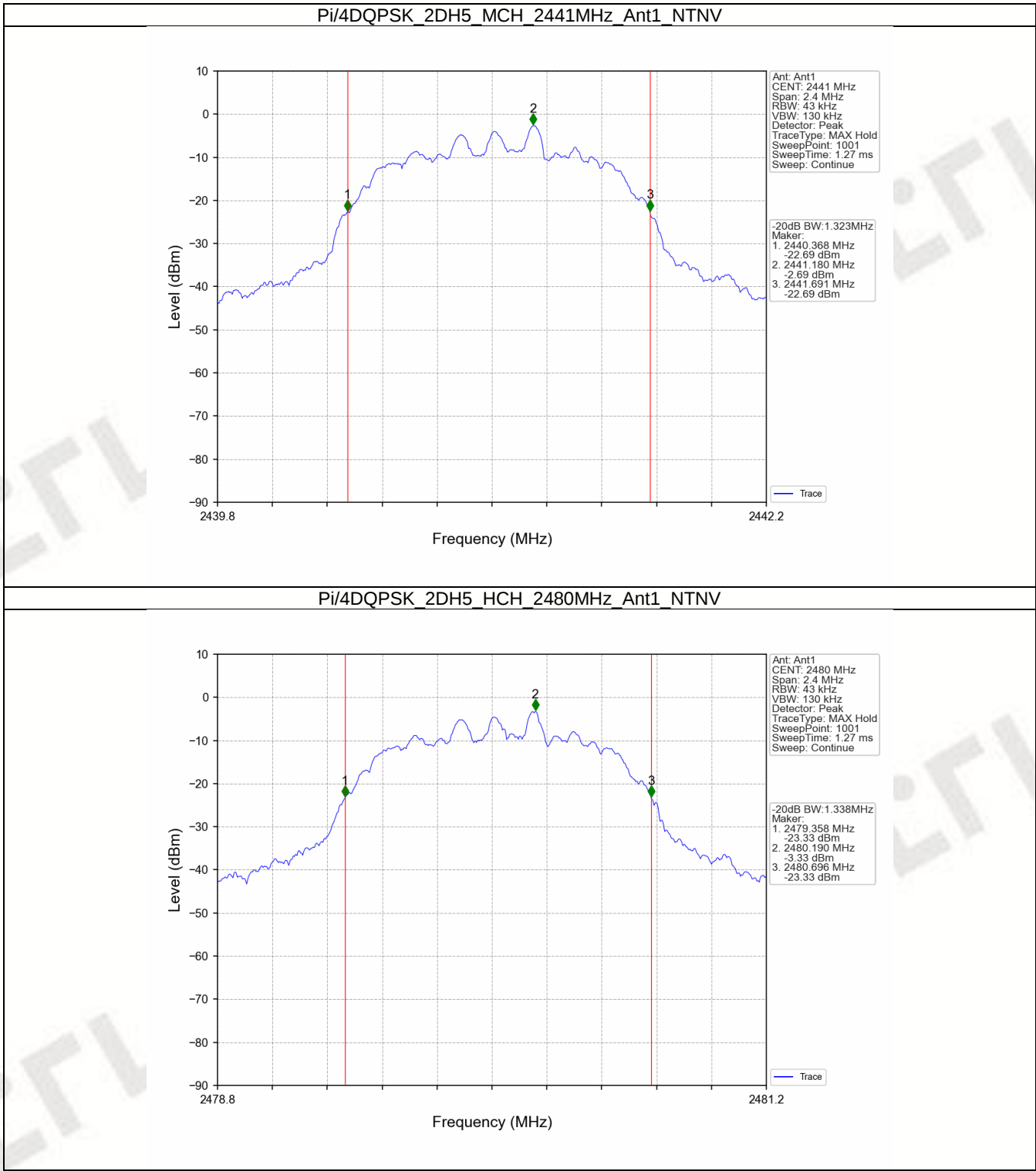
1.2.2 Test Graph



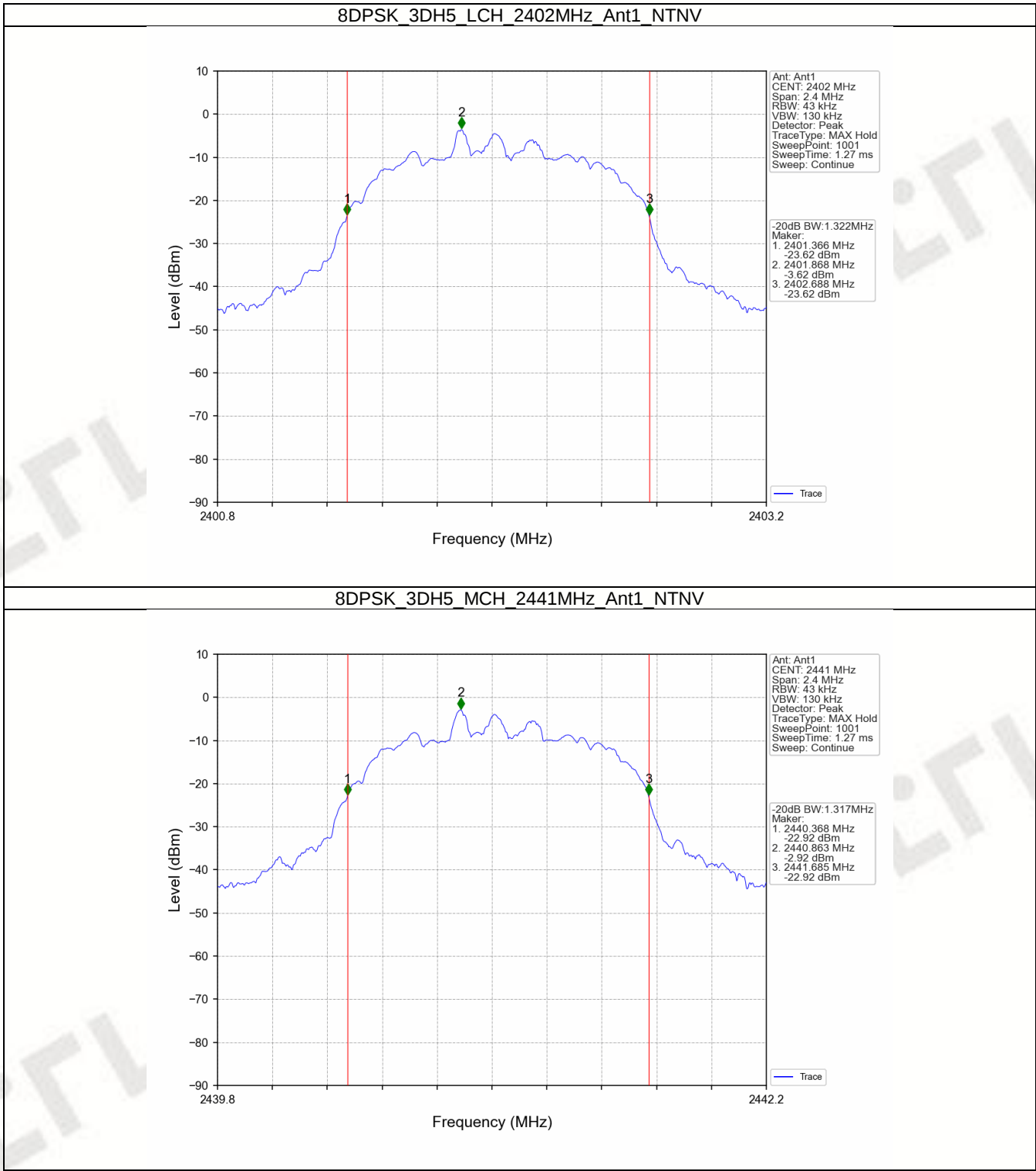
FCCID: 2AU4P-BTS081



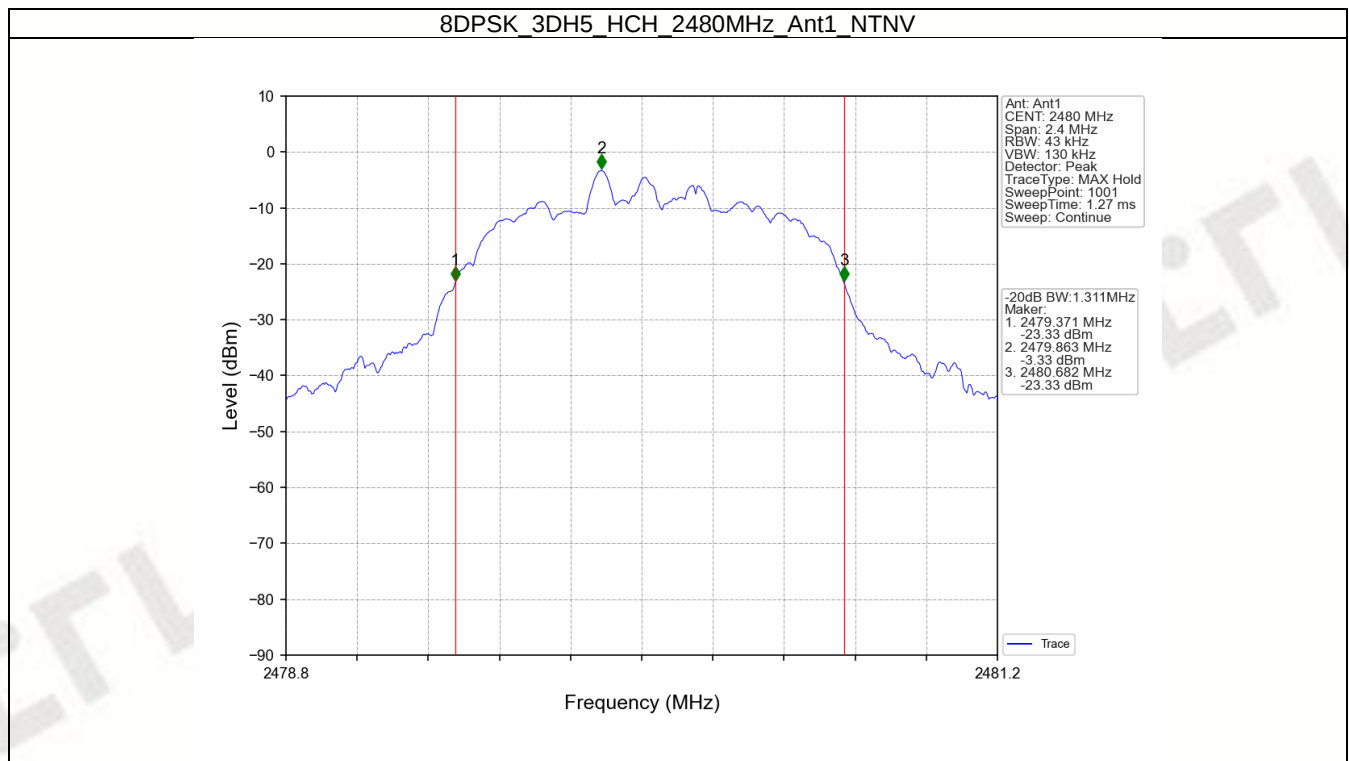
FCCID: 2AU4P-BTS081



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2. Maximum Conducted Output Power

2.1 Power

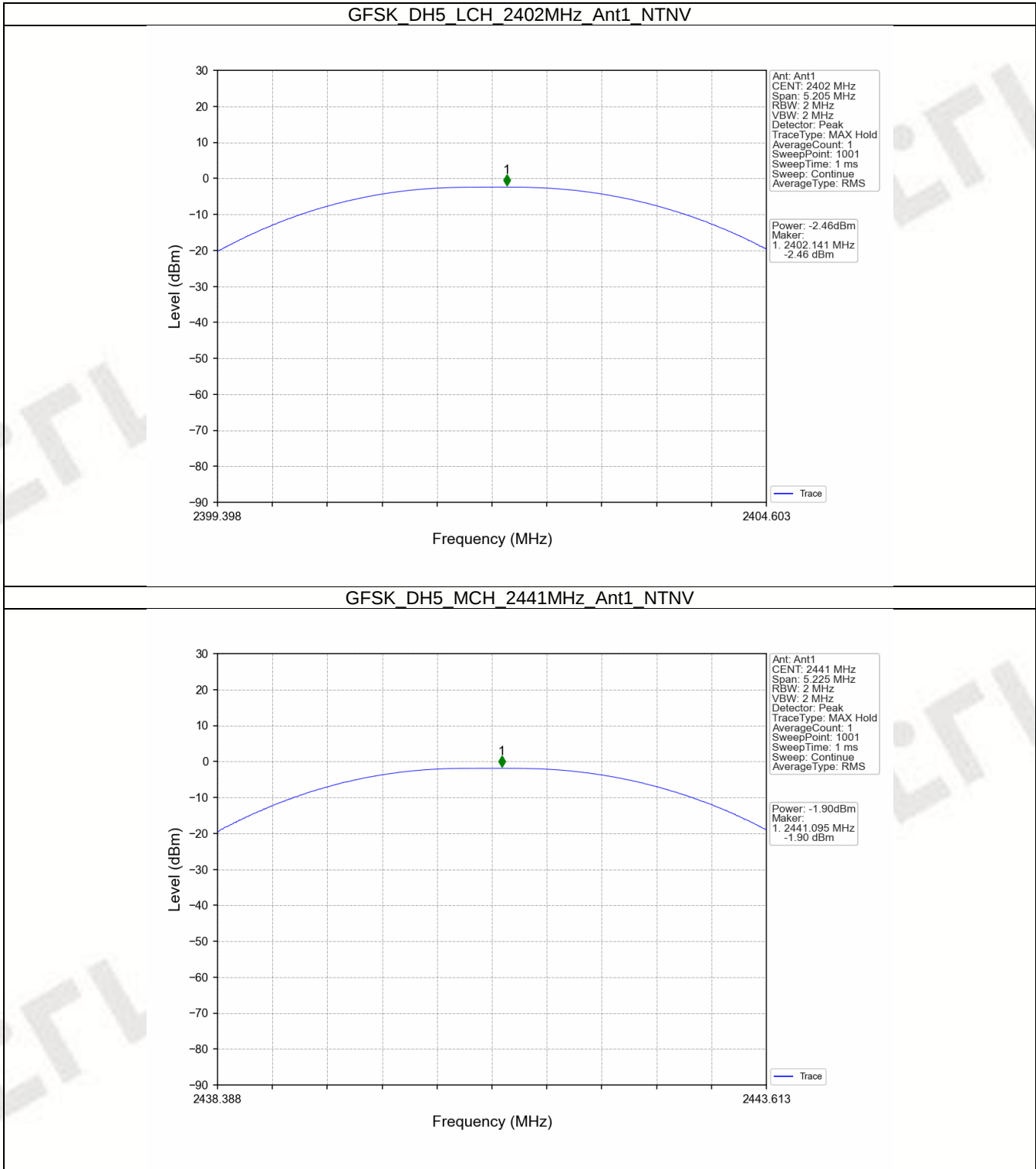
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-2.46	≤ 20.97	Pass
		2441	DH5	-1.90	≤ 20.97	Pass
		2480	DH5	-2.28	≤ 20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	-1.60	≤ 20.97	Pass
		2441	2DH5	-1.07	≤ 20.97	Pass
		2480	2DH5	-1.46	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	-1.21	≤ 20.97	Pass
		2441	3DH5	-0.65	≤ 20.97	Pass
		2480	3DH5	-1.05	≤ 20.97	Pass

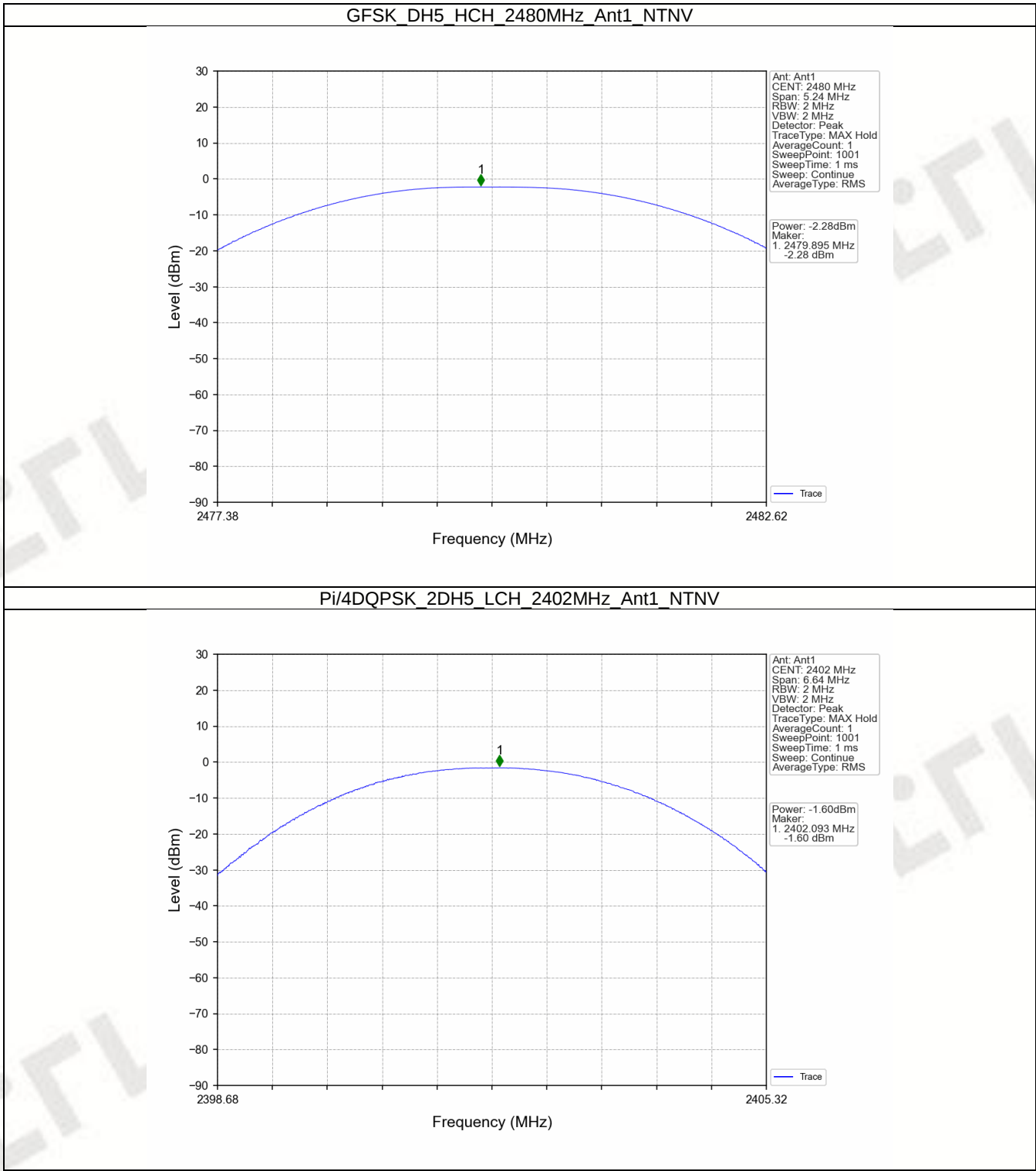
Note1: Antenna Gain: Ant1: -0.58dBi;

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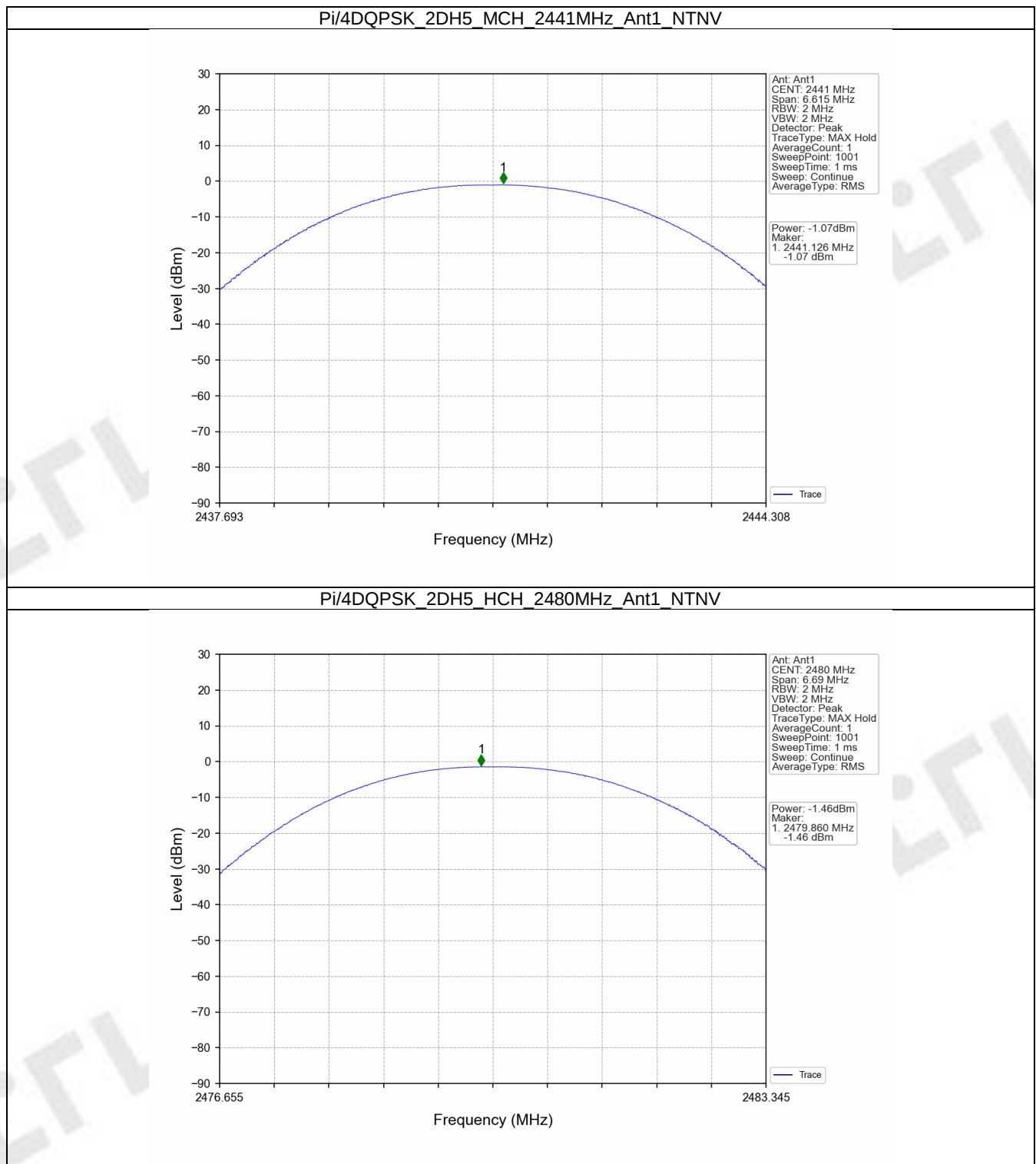
2.1.2 Test Graph



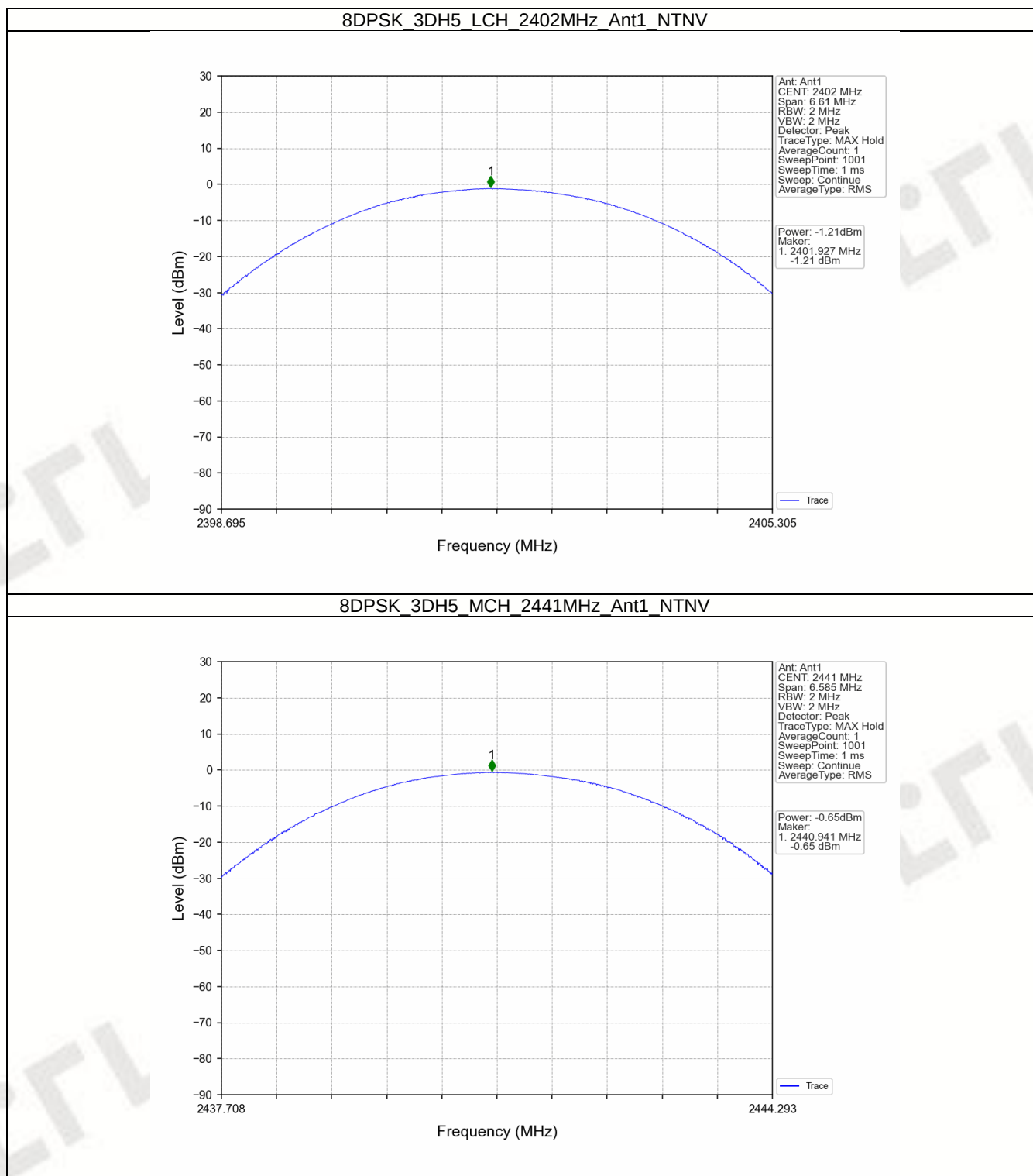
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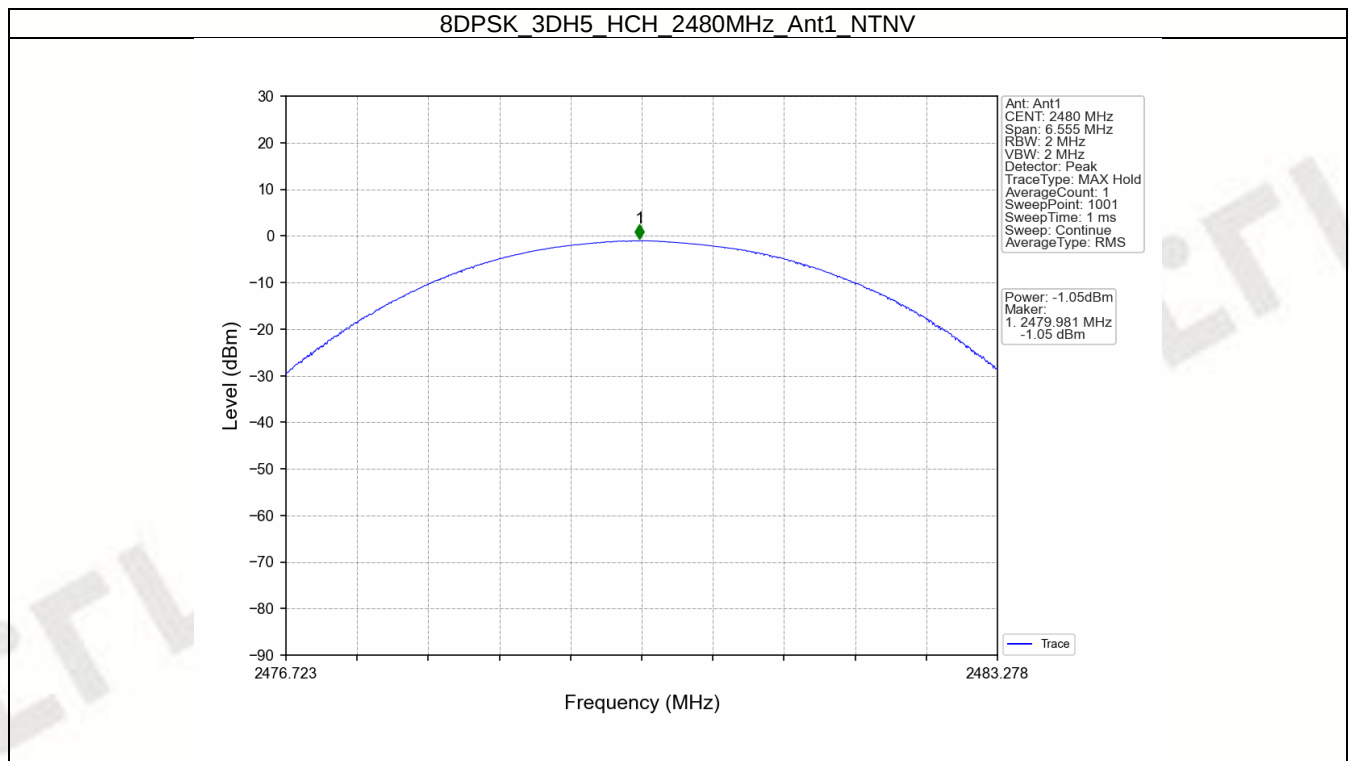
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FCCID: 2AU4P-BTS081



FCCID: 2AU4P-BTS081



3. Carrier Frequency Separation

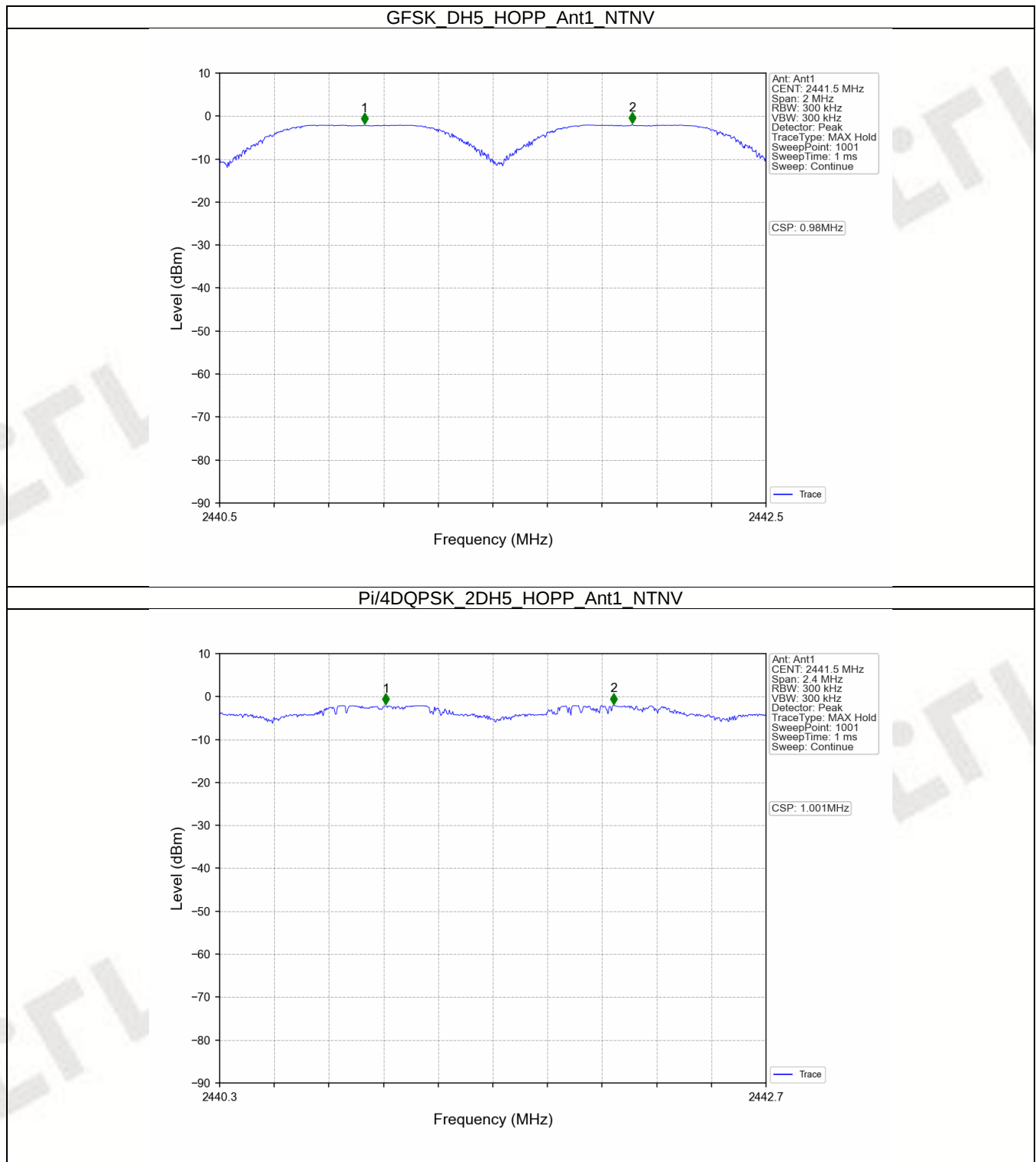
3.1 Ant1

3.1.1 Test Result

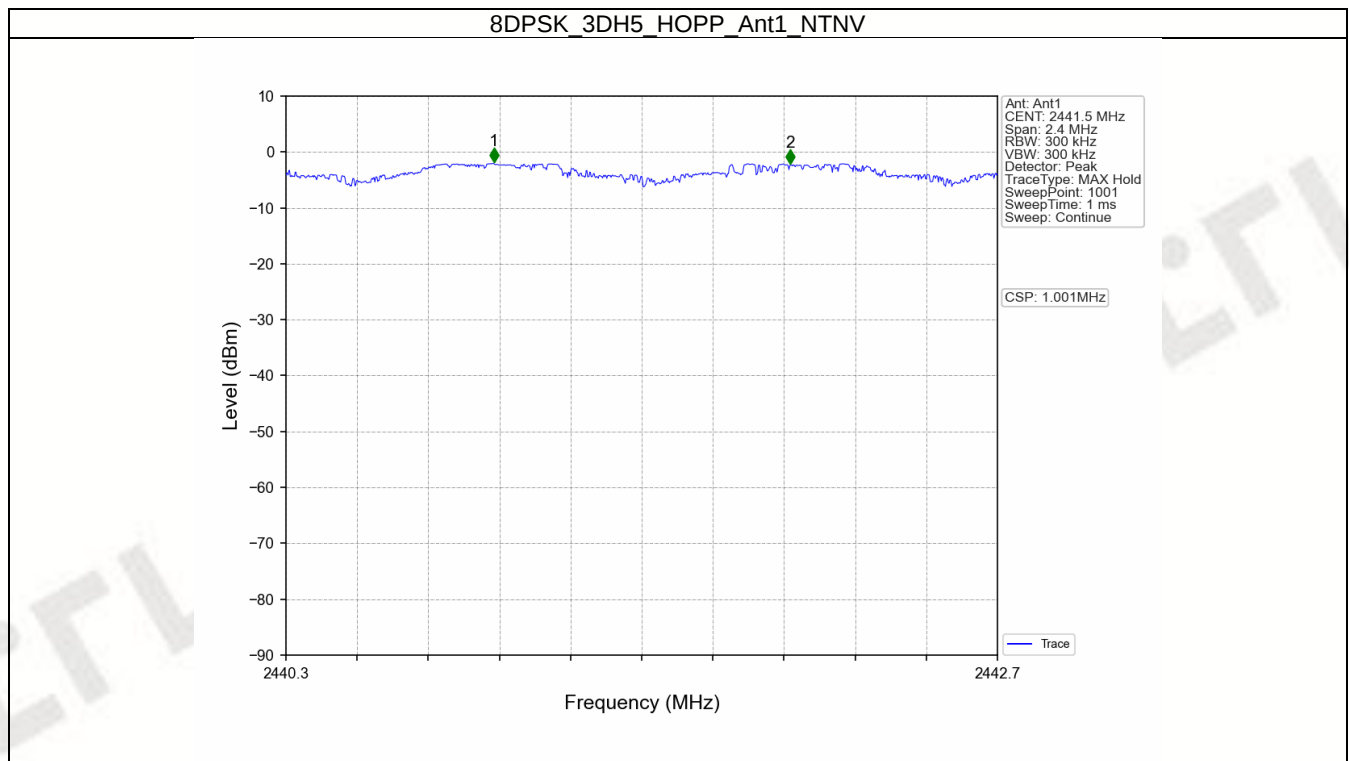
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.980	1.048	≥ 0.699	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.338	≥ 0.892	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.322	≥ 0.881	Pass

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3.1.2 Test Graph



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4. Number of Hopping Frequencies

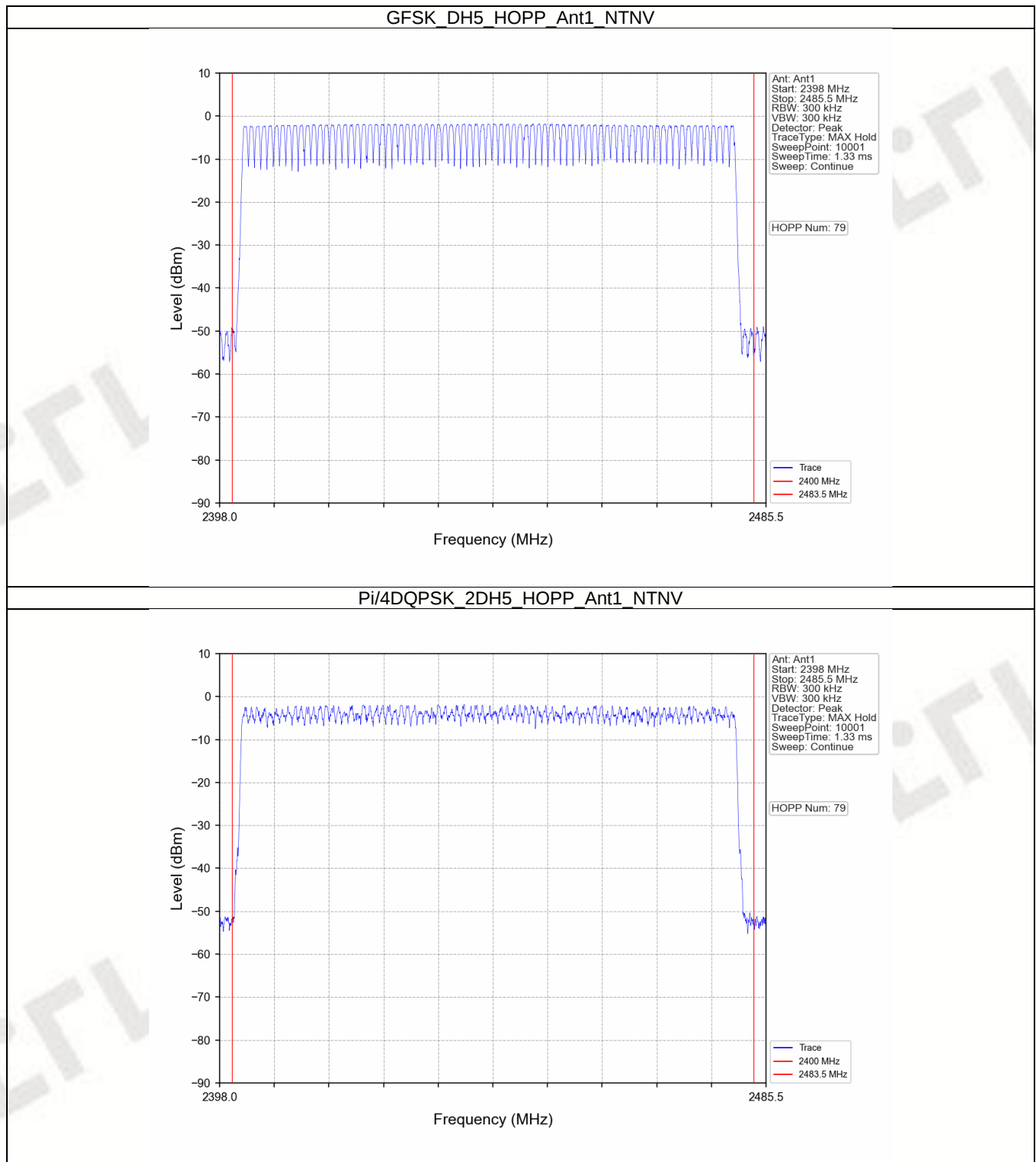
4.1 HoppNum

4.1.1 Test Result

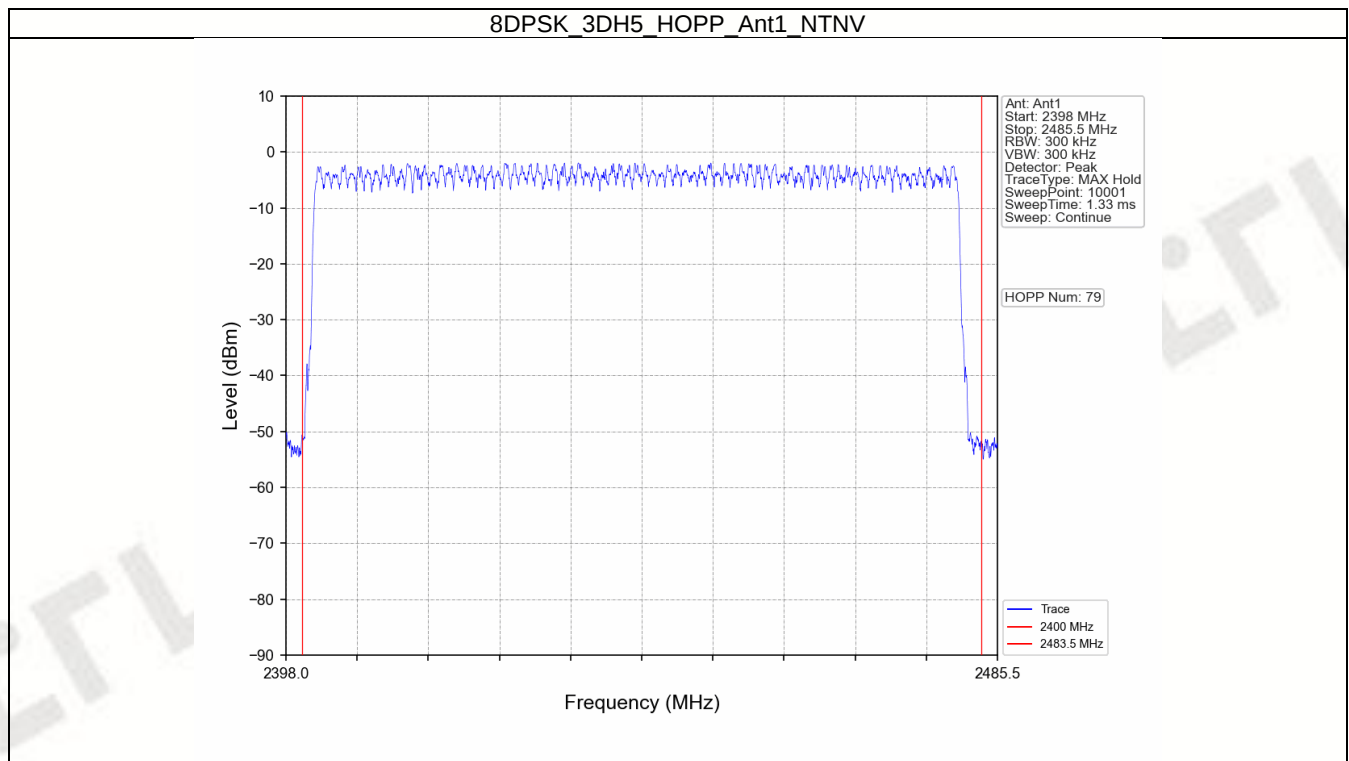
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
PI/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

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4.1.2 Test Graph



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5. Time of Occupancy (Dwell Time)

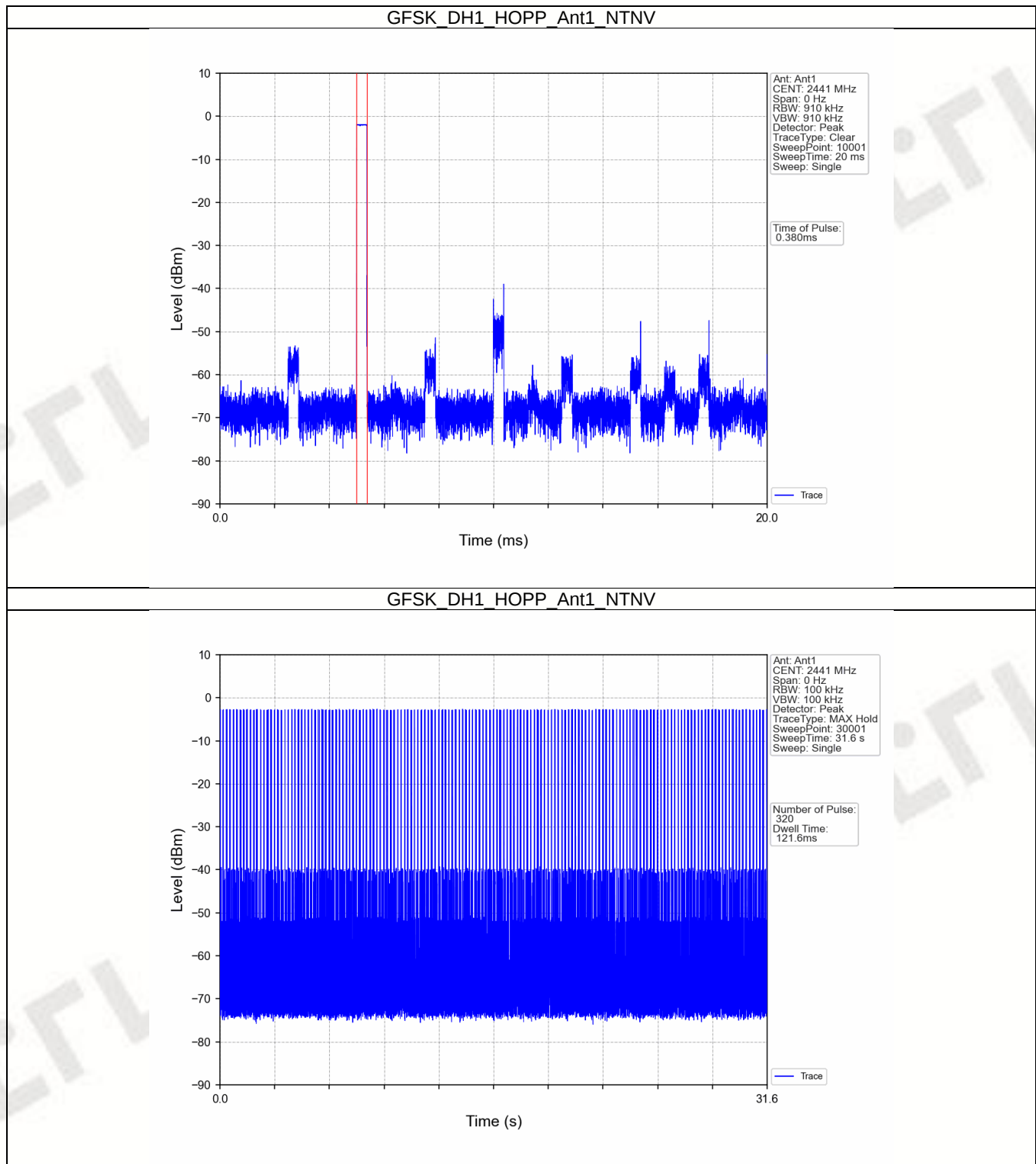
5.1 Ant1

5.1.1 Test Result

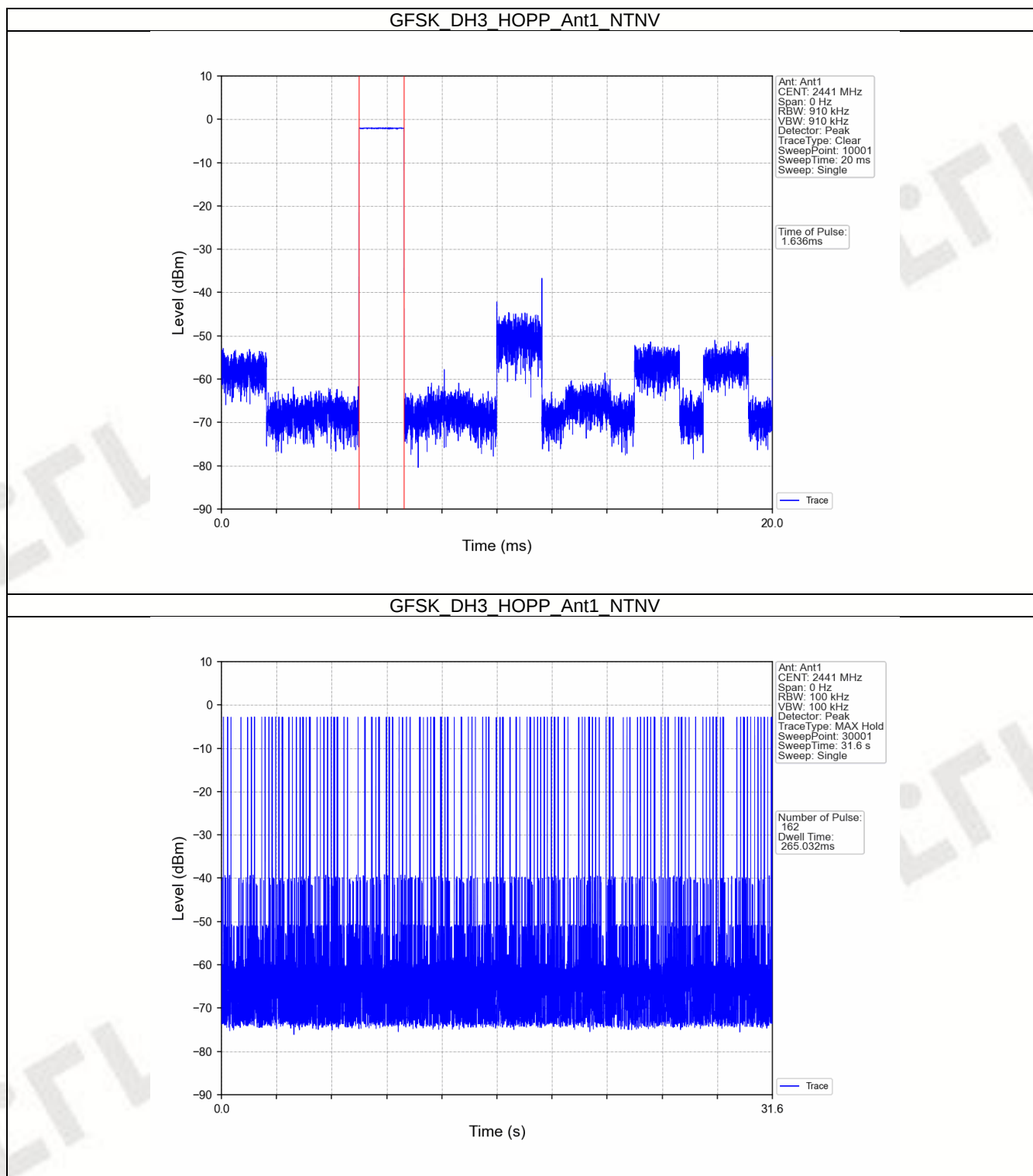
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.380	31.600	320	121.600	<=400	Pass
			DH3	1.636	31.600	162	265.032	<=400	Pass
			DH5	2.888	31.600	113	326.344	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.388	31.600	318	123.384	<=400	Pass
			2DH3	1.642	31.600	159	261.078	<=400	Pass
			2DH5	2.894	31.600	114	329.916	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.392	31.600	320	125.440	<=400	Pass
			3DH3	1.642	31.600	154	252.868	<=400	Pass
			3DH5	2.892	31.600	102	294.984	<=400	Pass

FCCID: 2AU4P-BTS081

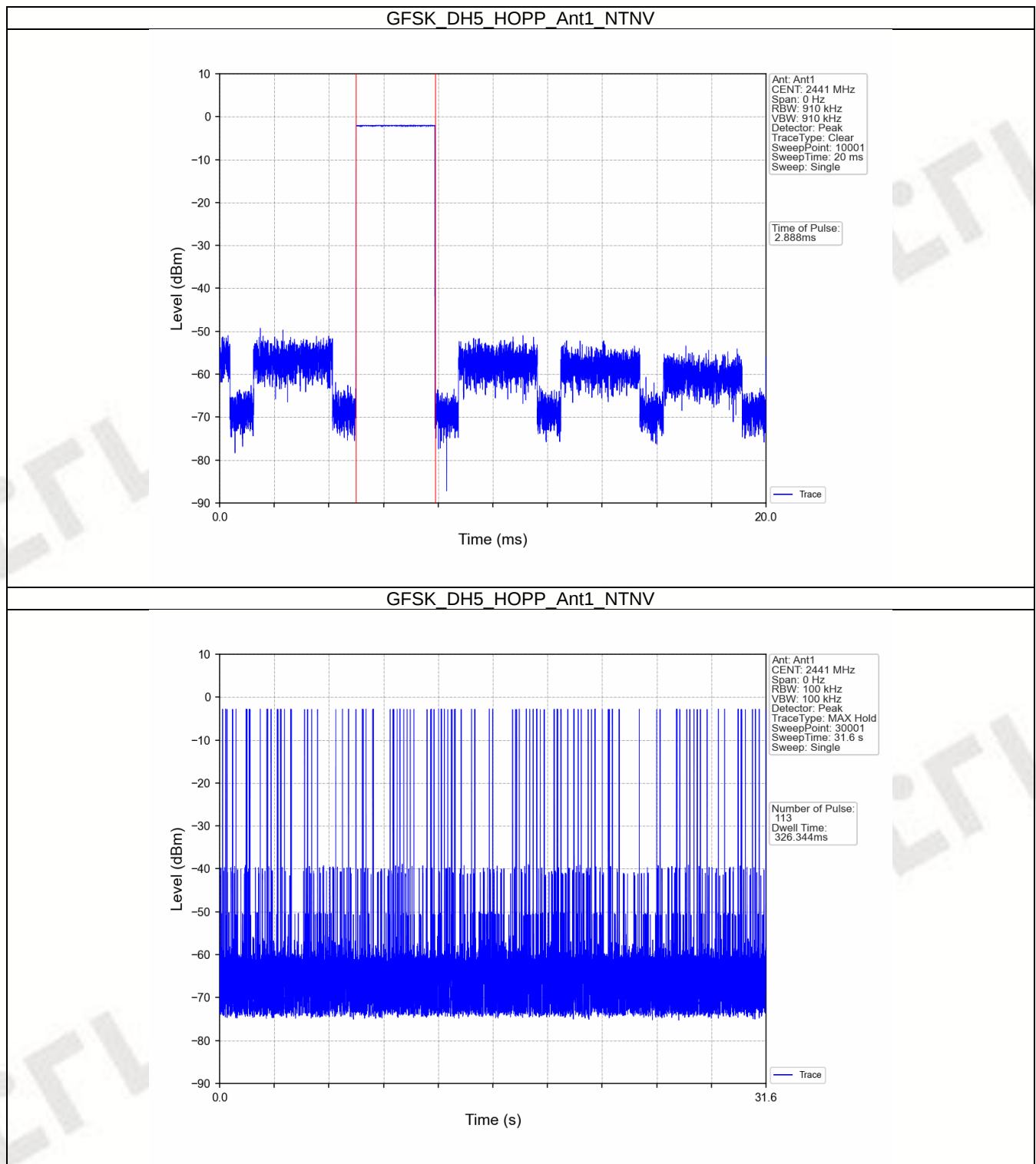
5.1.2 Test Graph



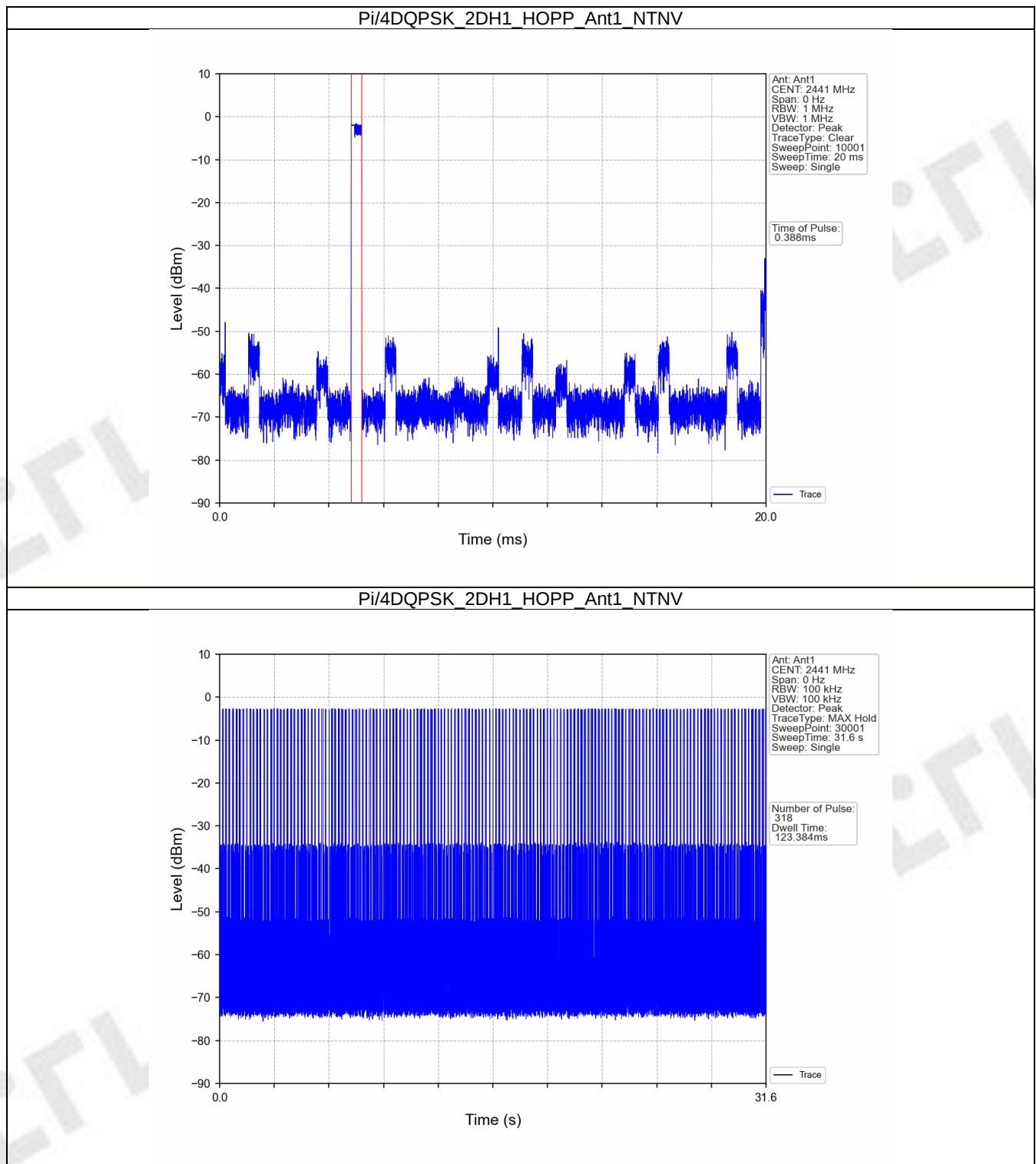
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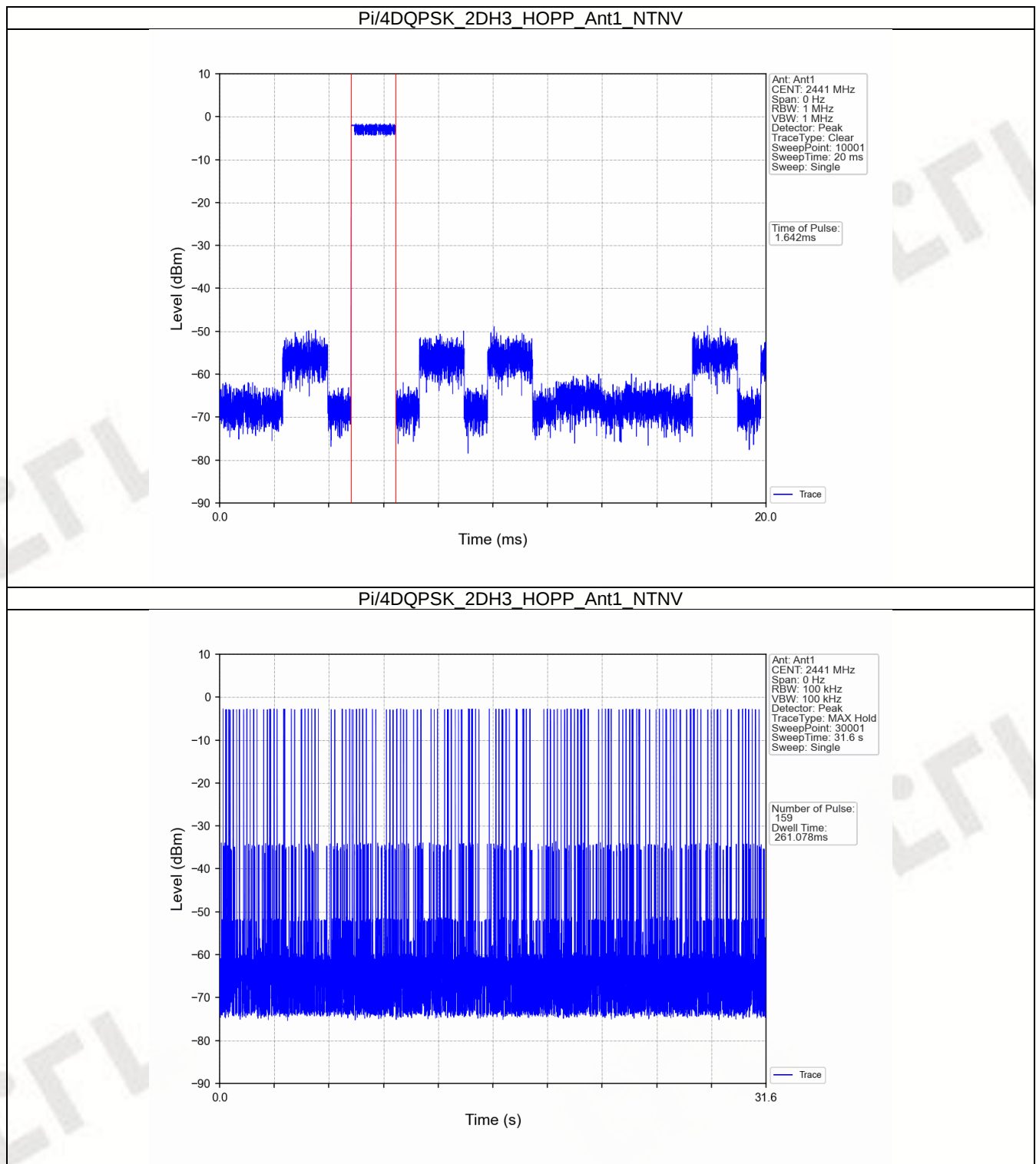
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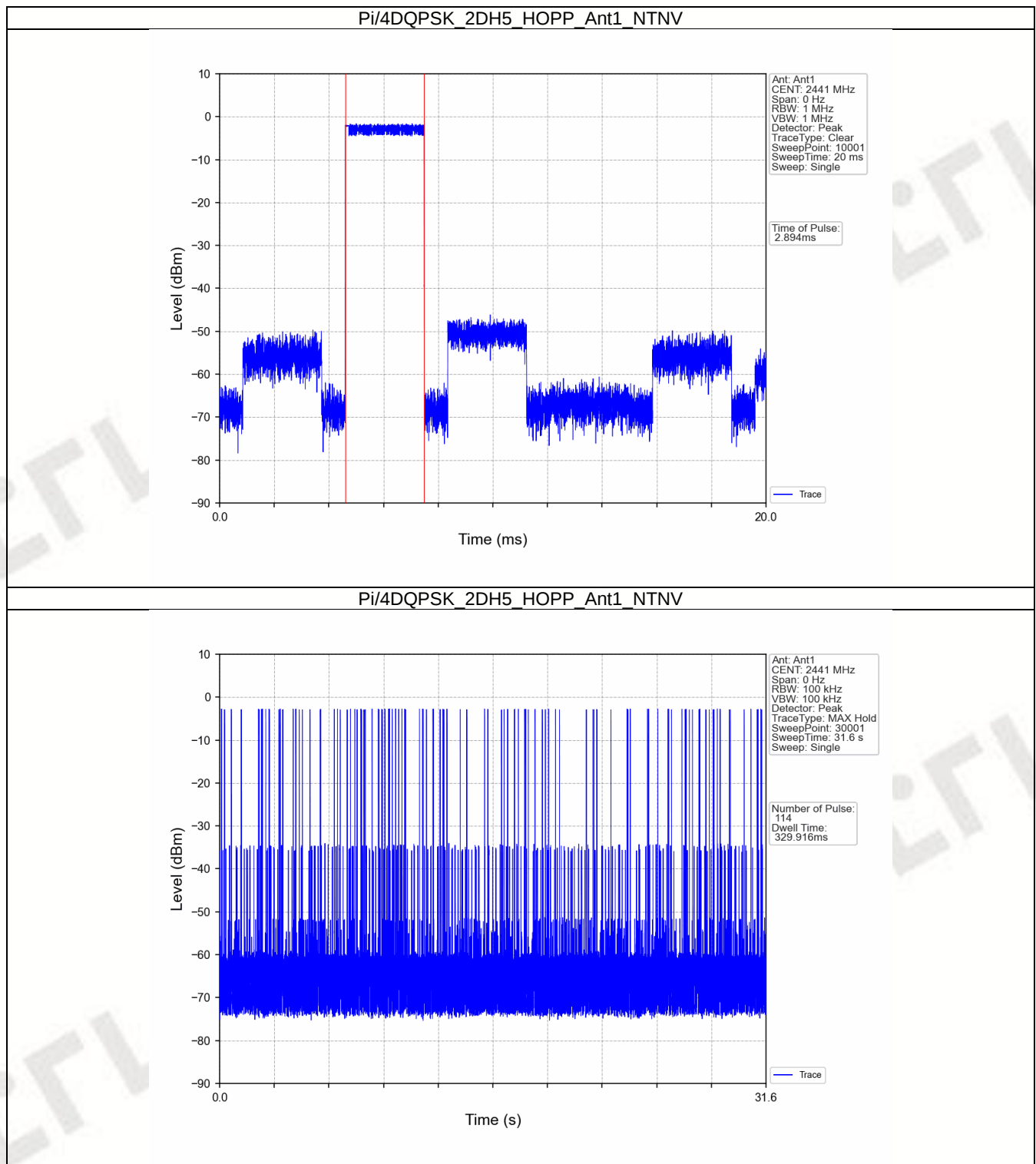
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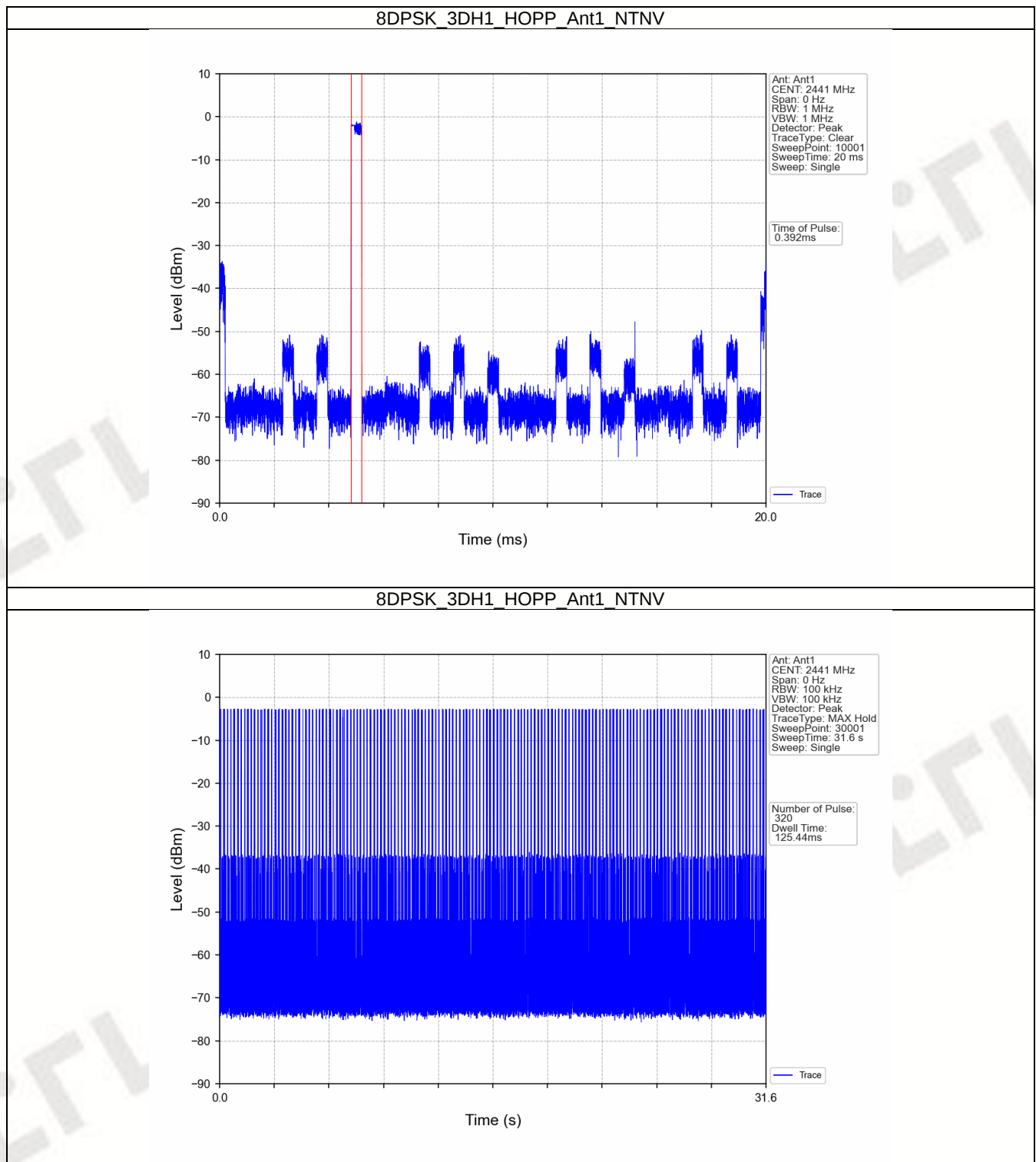
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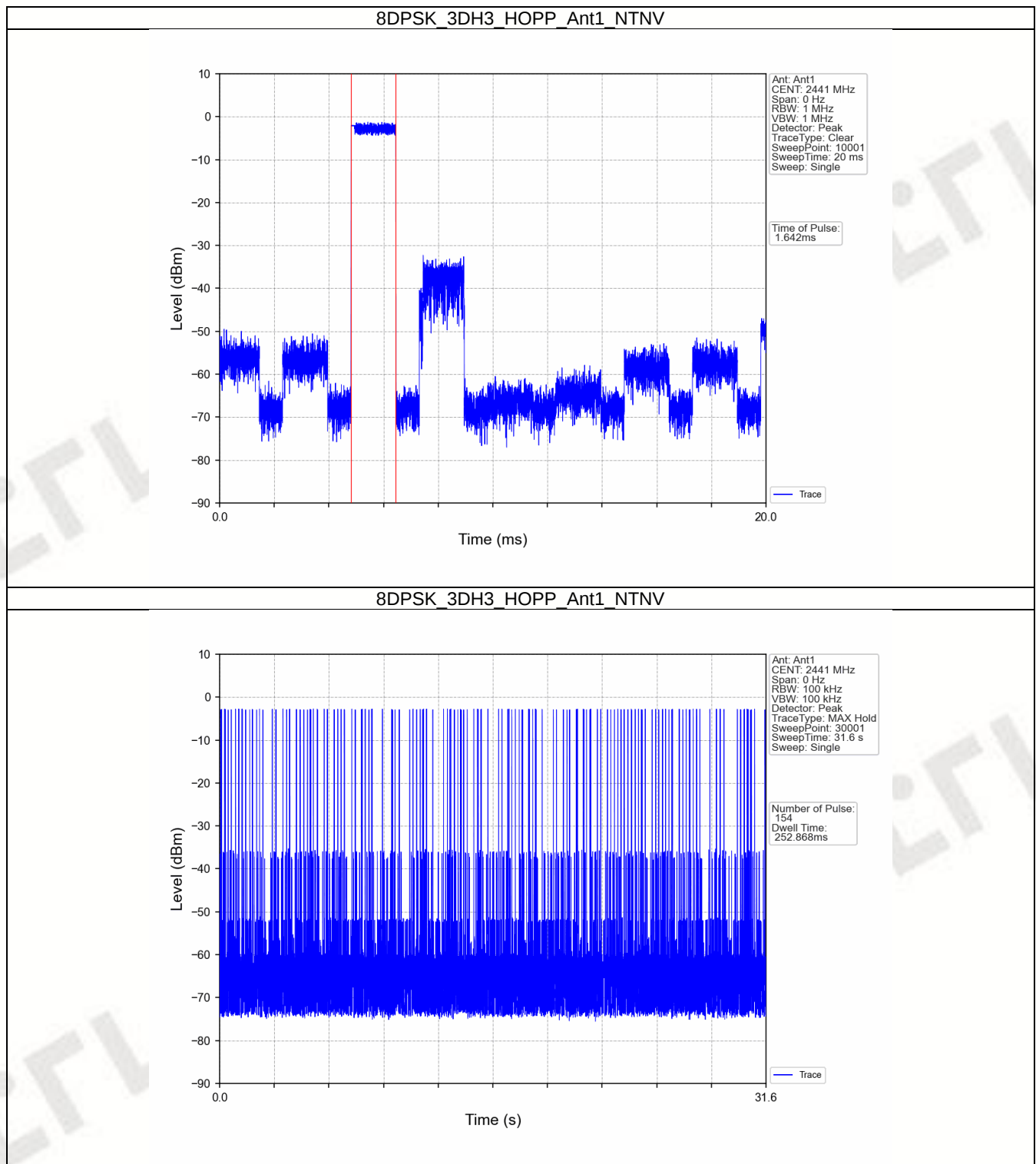
FCCID: 2AU4P-BTS081



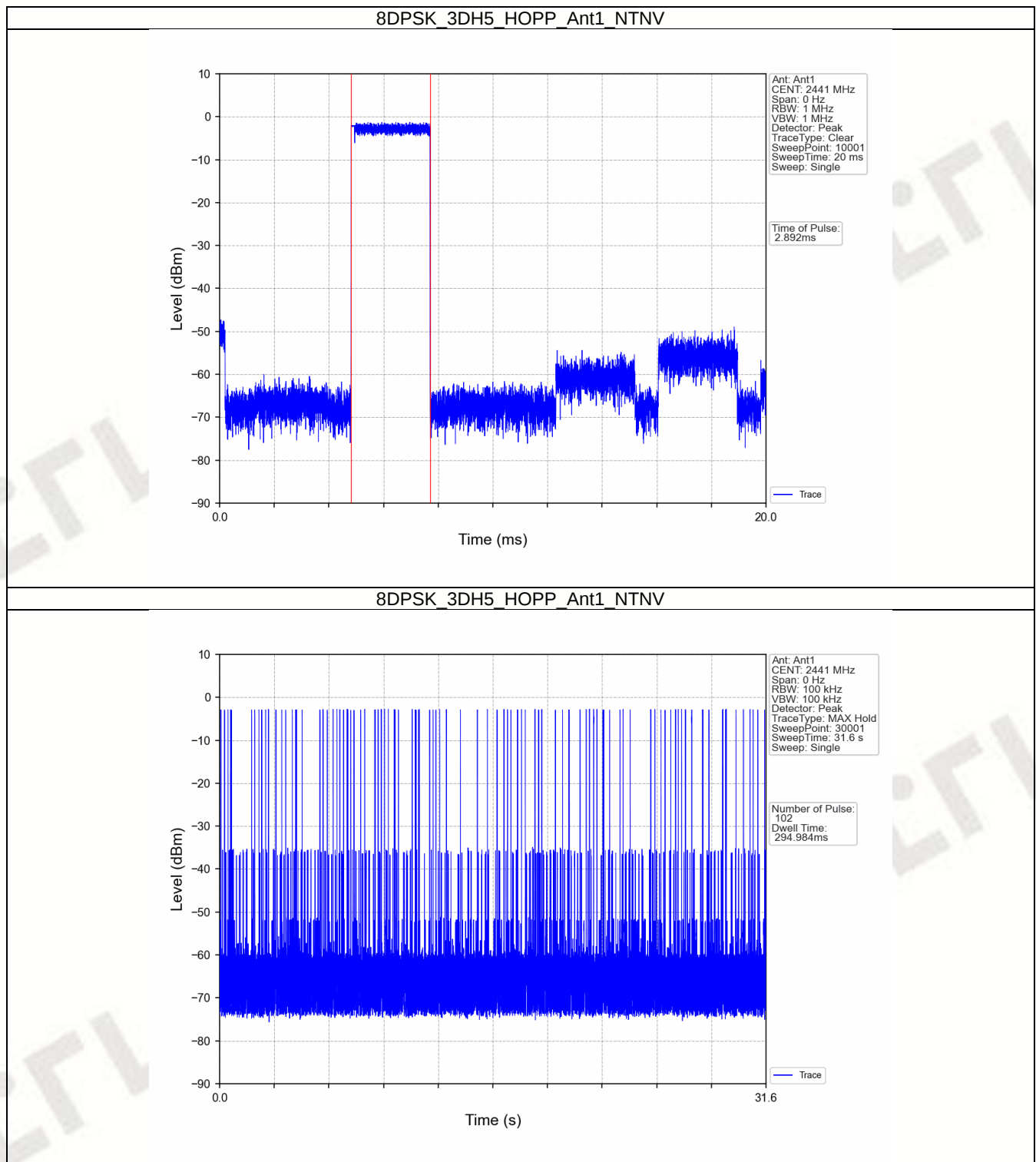
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

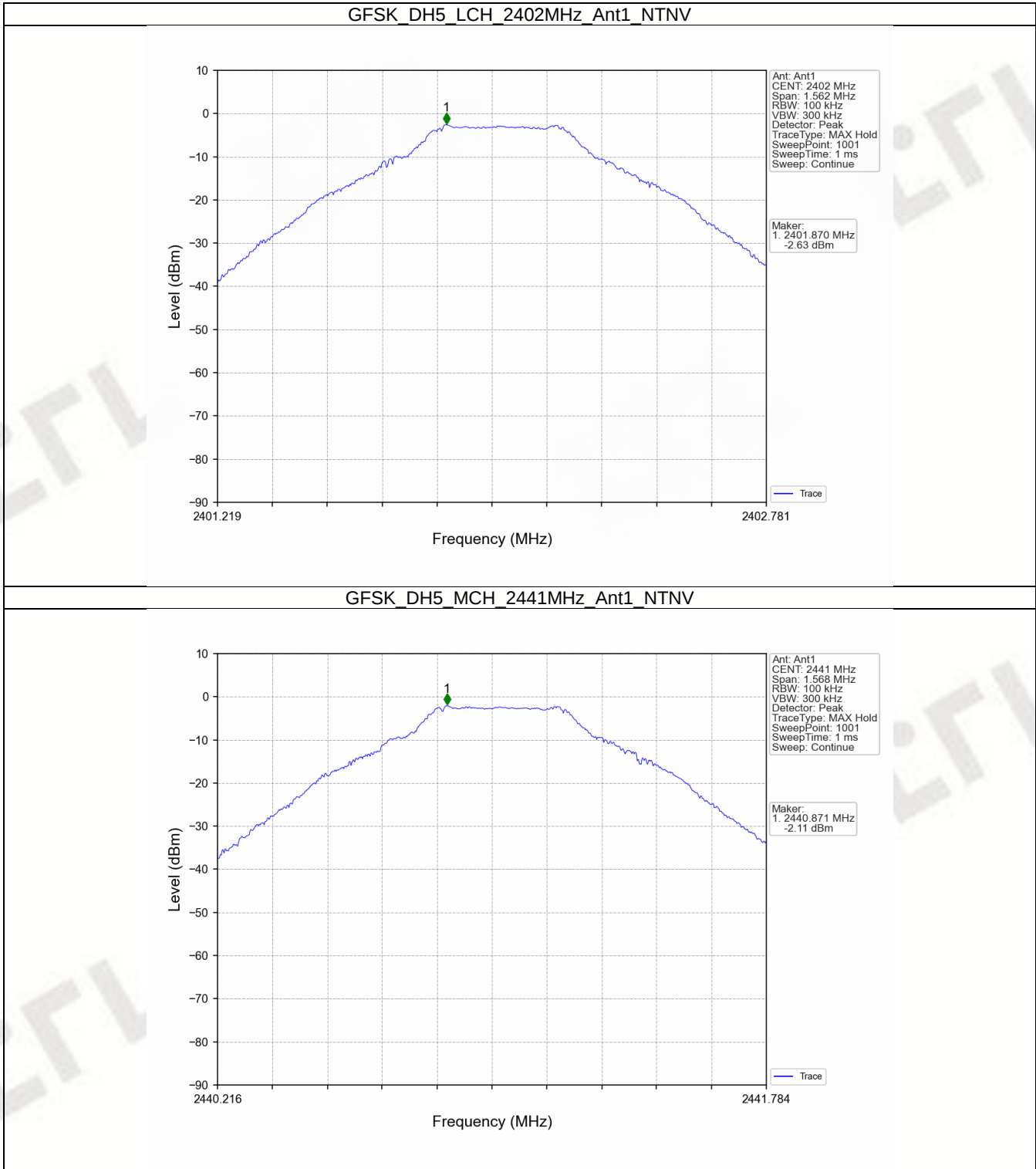
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-2.63
		2441	DH5	1	-2.11
		2480	DH5	1	-2.49
Pi/4DQPSK	SISO	2402	2DH5	1	-2.58
		2441	2DH5	1	-2.10
		2480	2DH5	1	-2.54
8DPSK	SISO	2402	3DH5	1	-2.61
		2441	3DH5	1	-2.25
		2480	3DH5	1	-2.53

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.

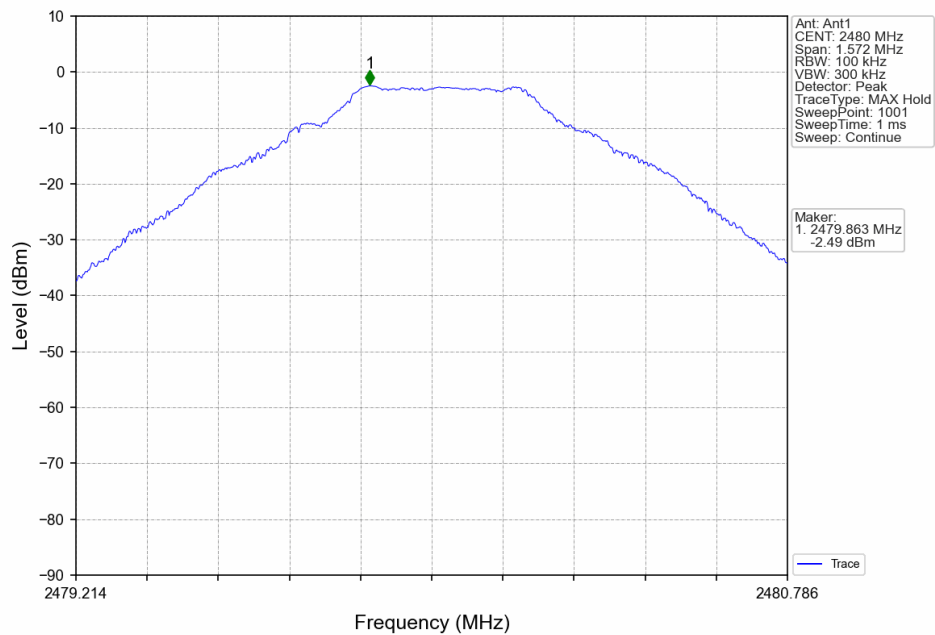
FCCID: 2AU4P-BTS081

6.1.2 Test Graph

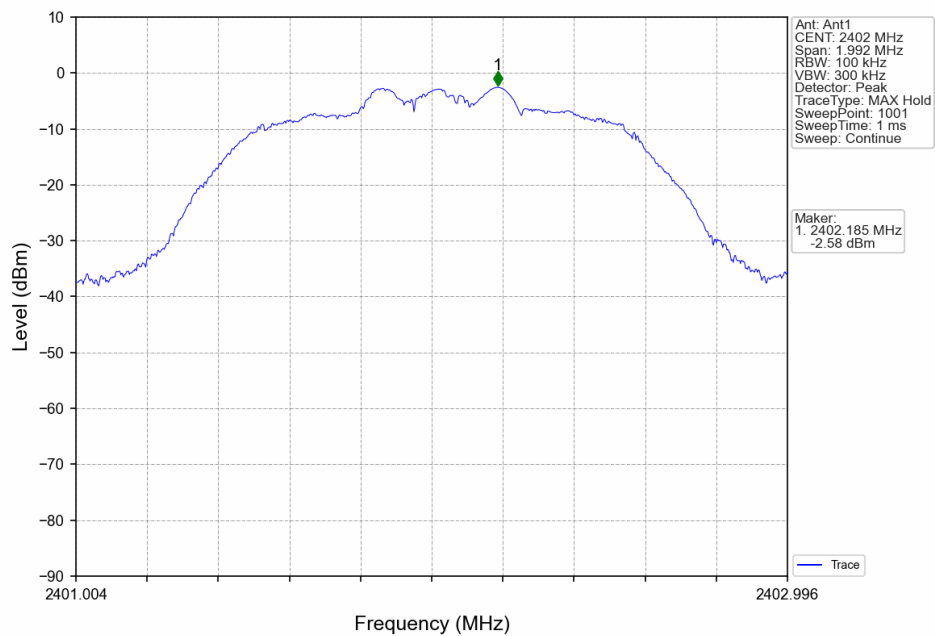


FCCID: 2AU4P-BTS081

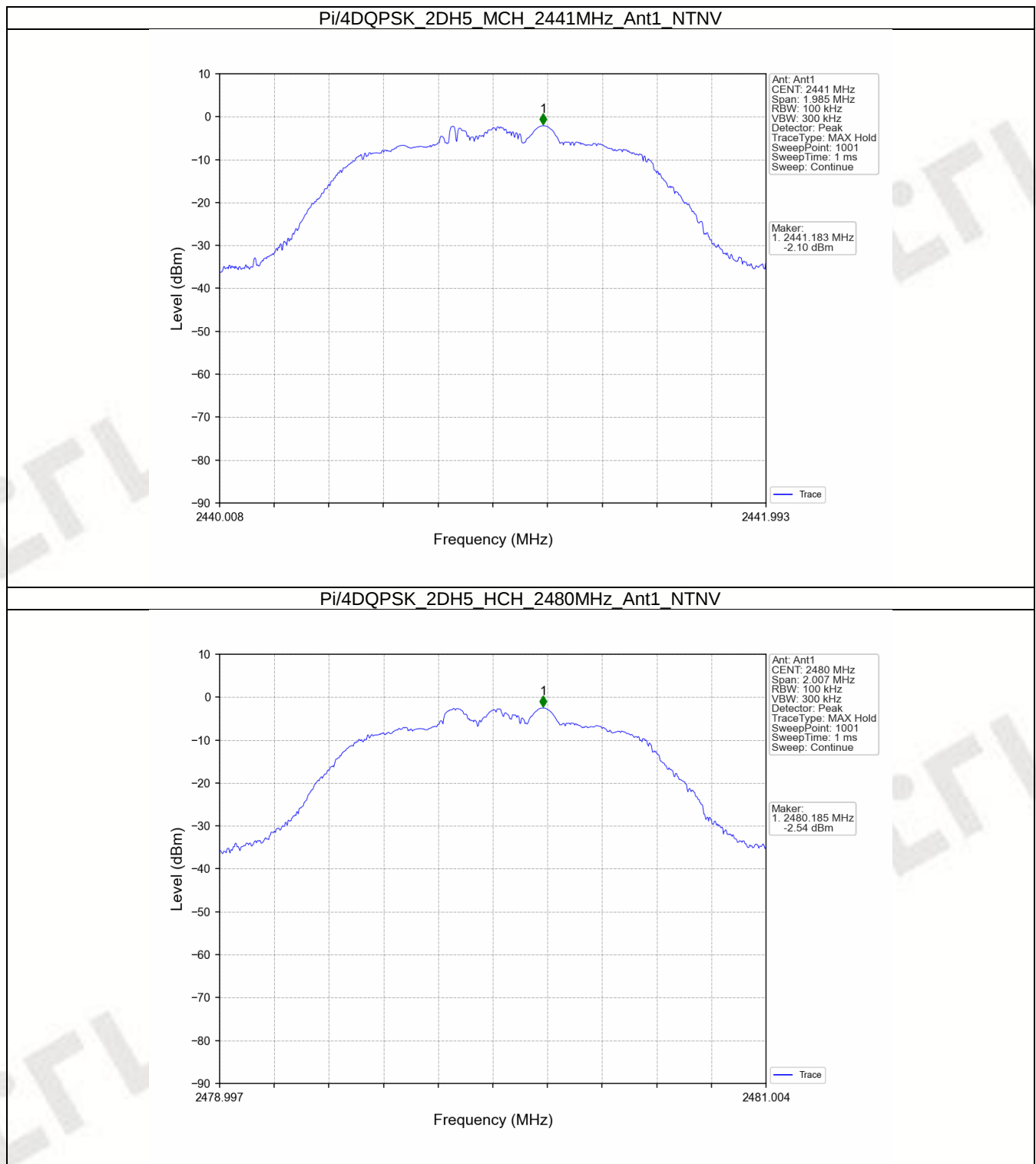
GFSK DH5 HCH 2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

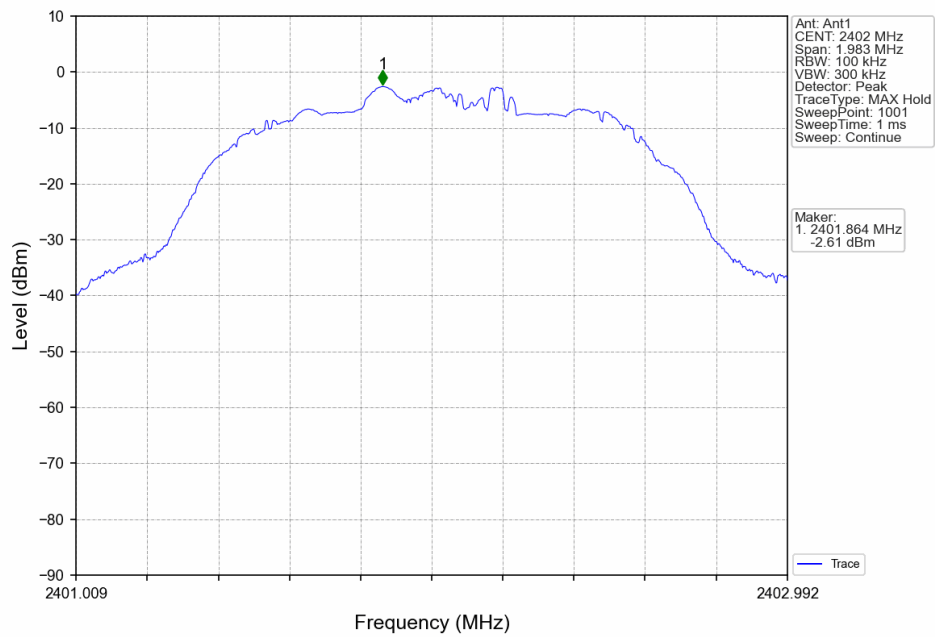


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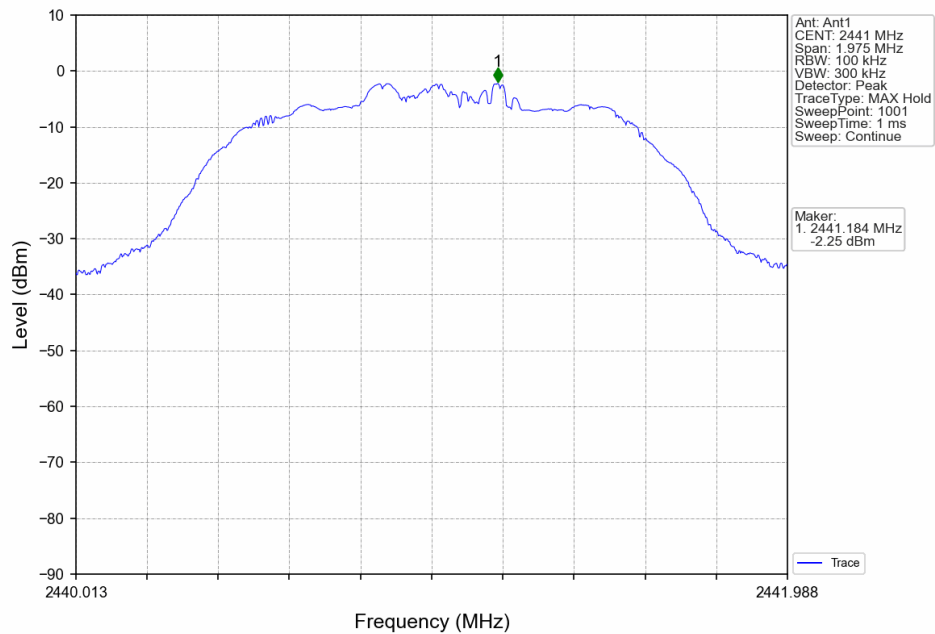


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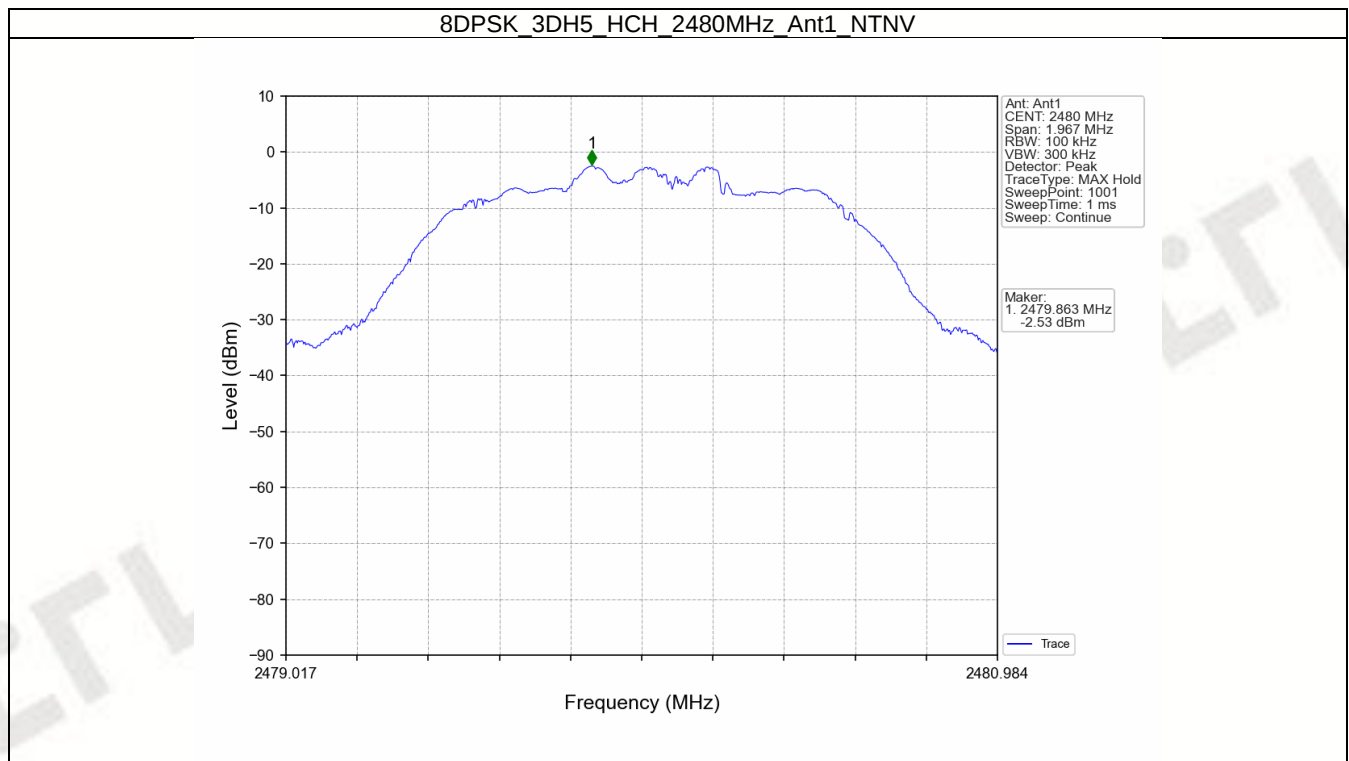
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



FCCID: 2AU4P-BTS081



FCCID: 2AU4P-BTS081

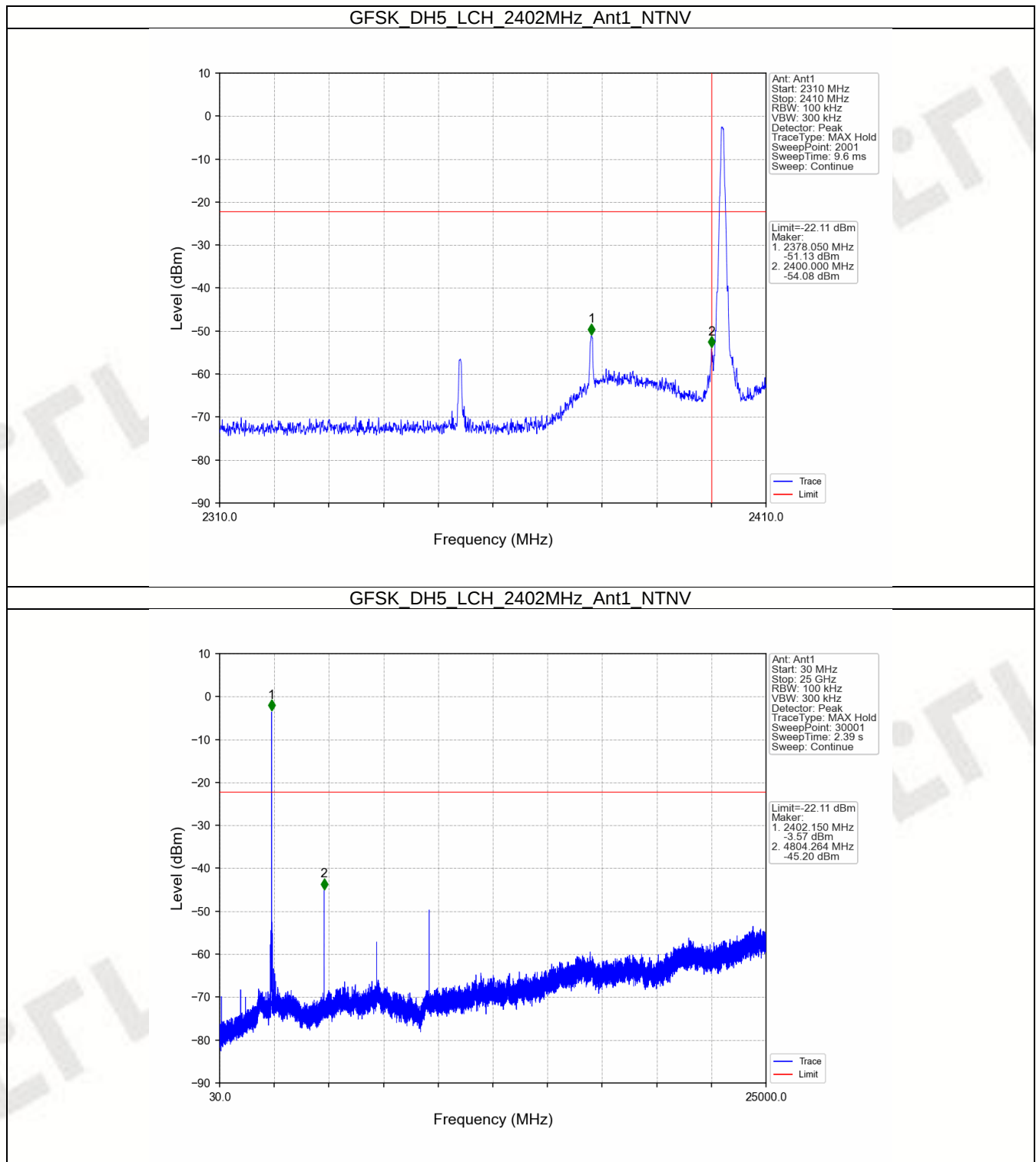
6.2 CSE

6.2.1 Test Result

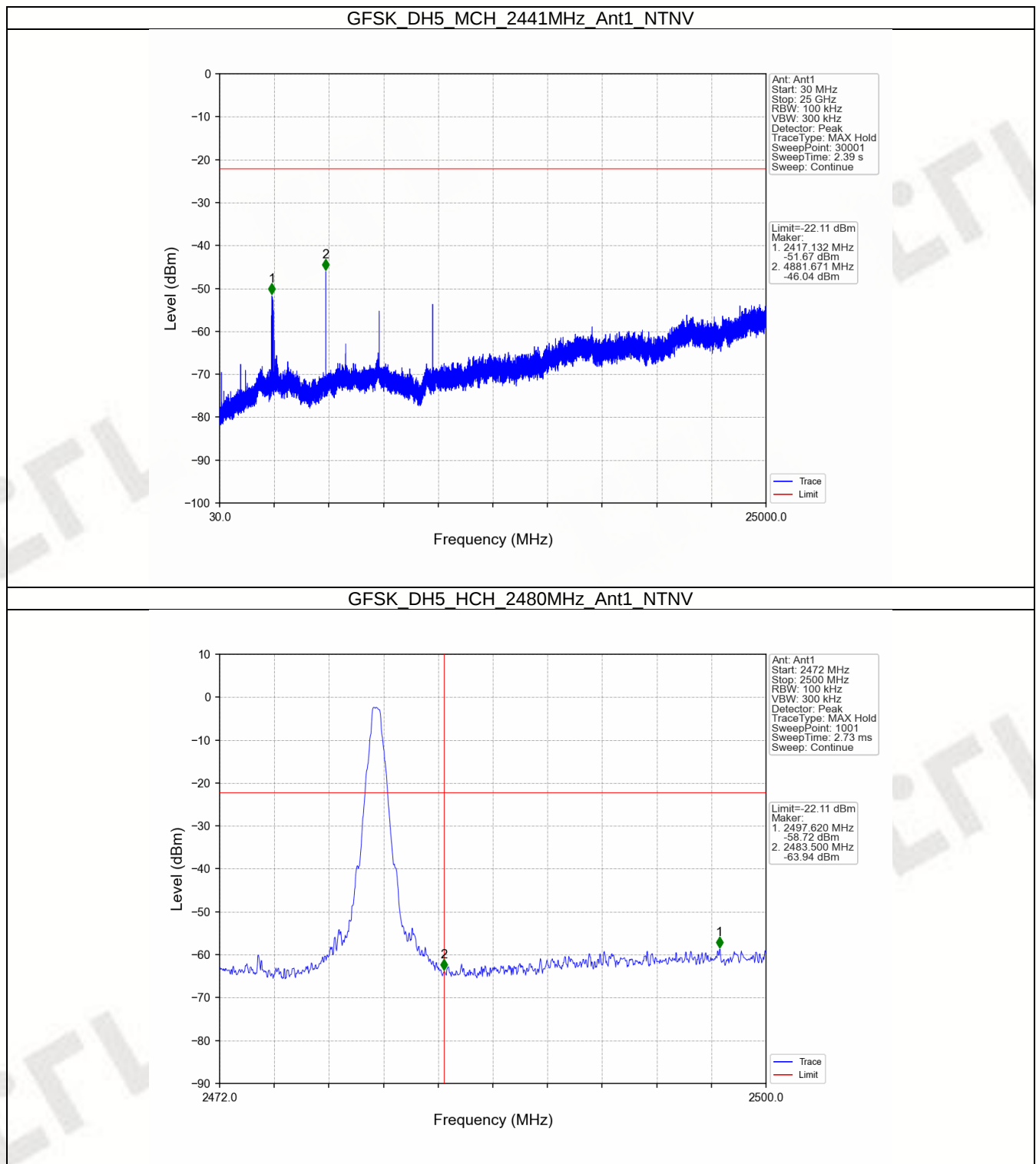
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-2.11	-22.11	Pass
		2441	DH5	1	-2.11	-22.11	Pass
		2480	DH5	1	-2.11	-22.11	Pass
		HOPP	DH5	1	-2.11	-22.11	Pass
					-2.11	-22.11	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-2.10	-22.10	Pass
		2441	2DH5	1	-2.10	-22.10	Pass
		2480	2DH5	1	-2.10	-22.10	Pass
		HOPP	2DH5	1	-2.10	-22.10	Pass
					-2.10	-22.10	Pass
8DPSK	SISO	2402	3DH5	1	-2.25	-22.25	Pass
		2441	3DH5	1	-2.25	-22.25	Pass
		2480	3DH5	1	-2.25	-22.25	Pass
		HOPP	3DH5	1	-2.25	-22.25	Pass
					-2.25	-22.25	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.							

FCCID: 2AU4P-BTS081

6.2.2 Test Graph

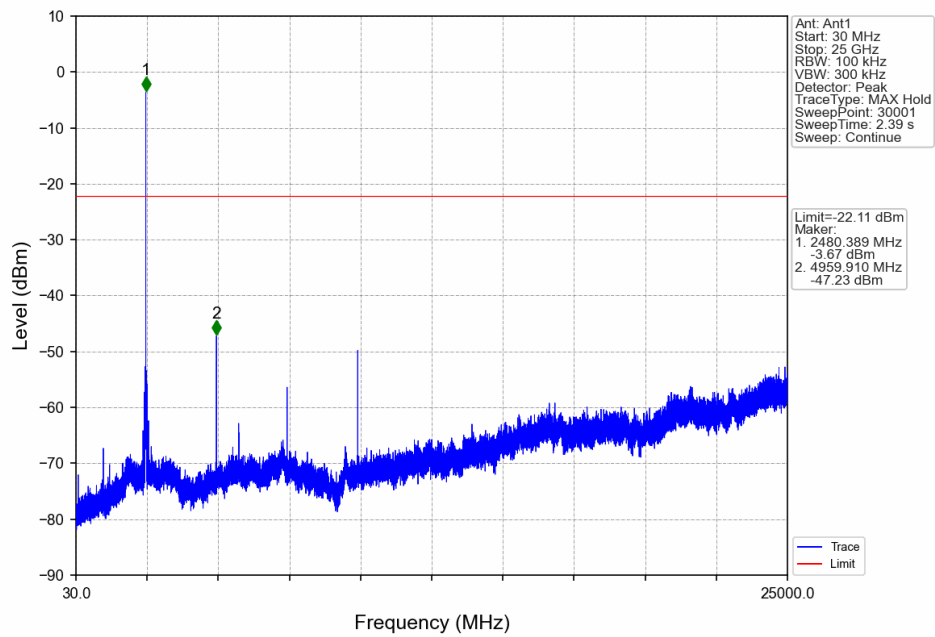


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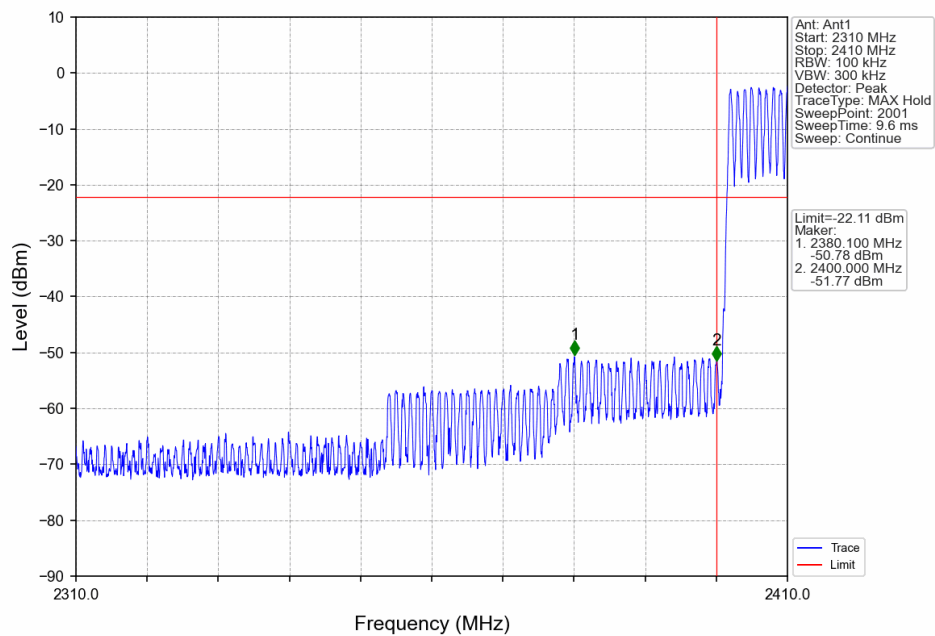


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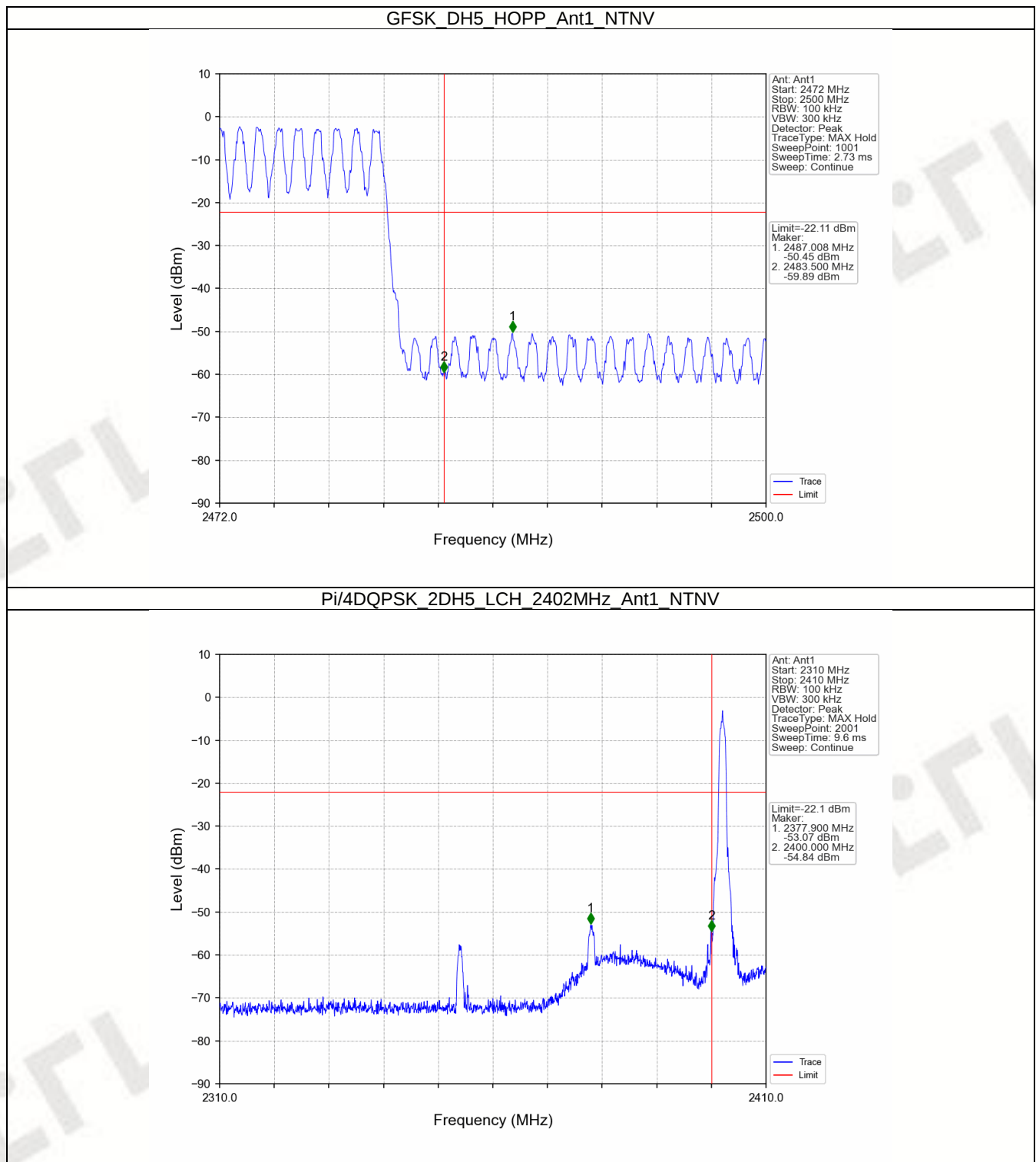
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV

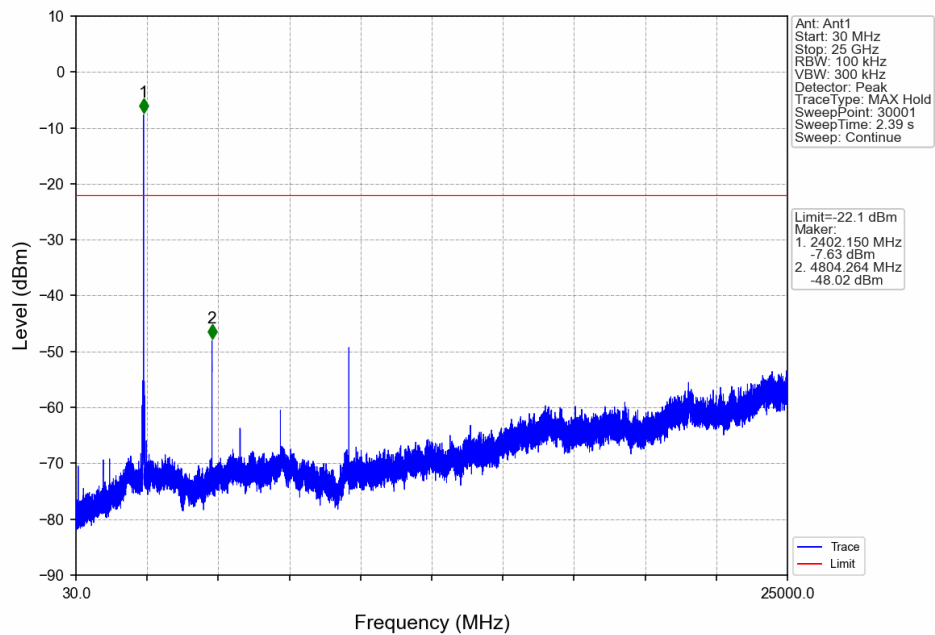


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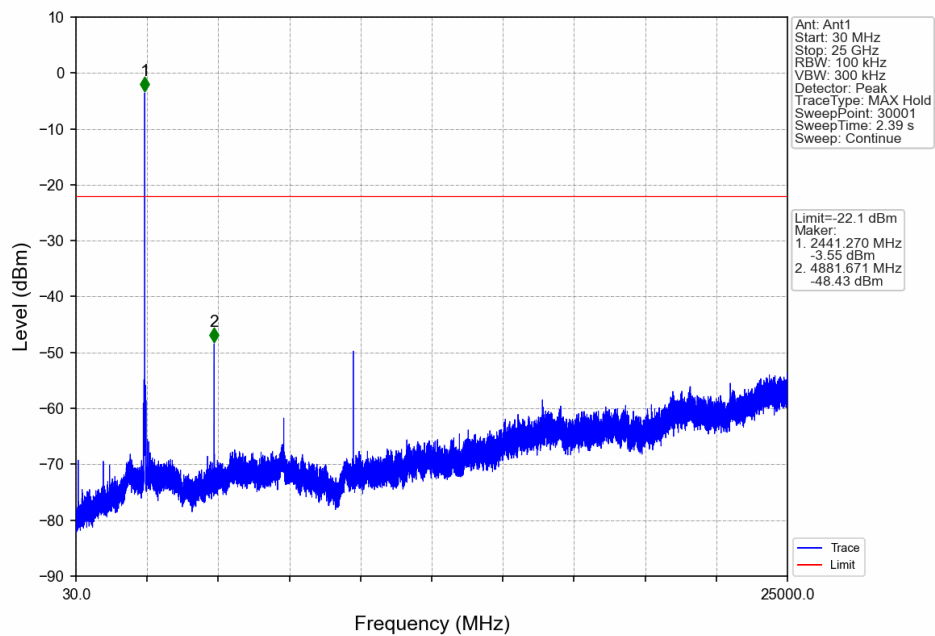


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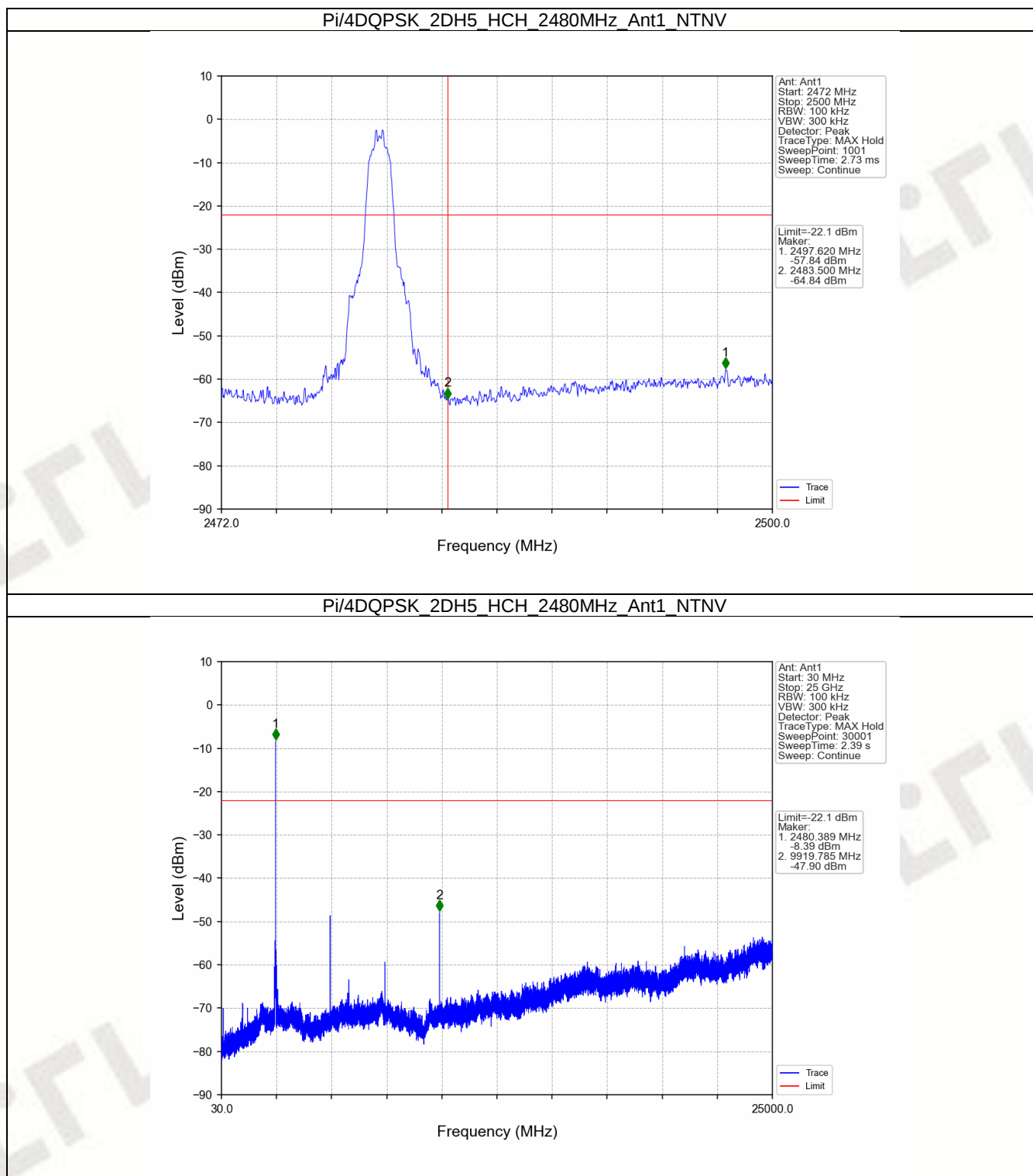
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



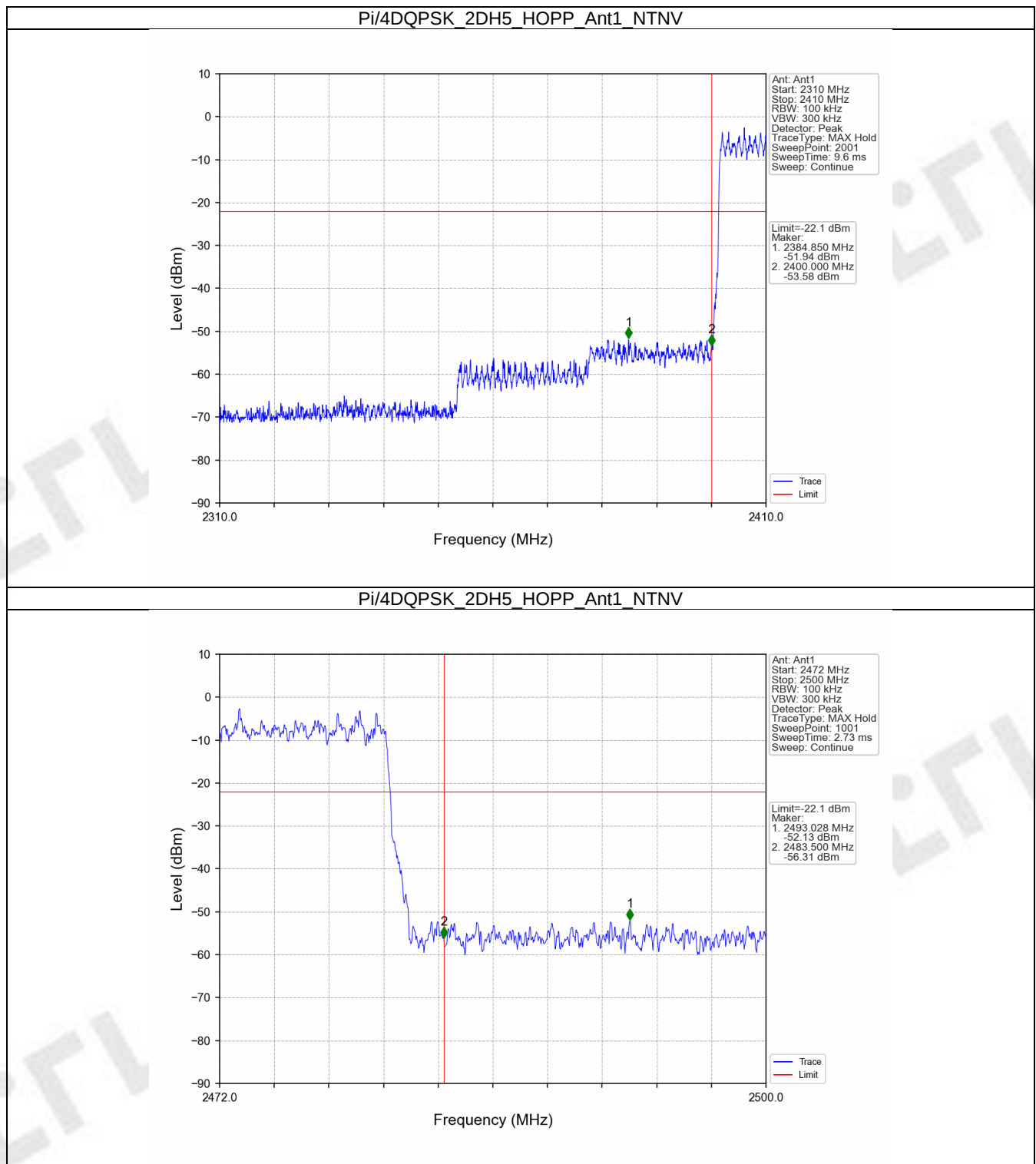
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



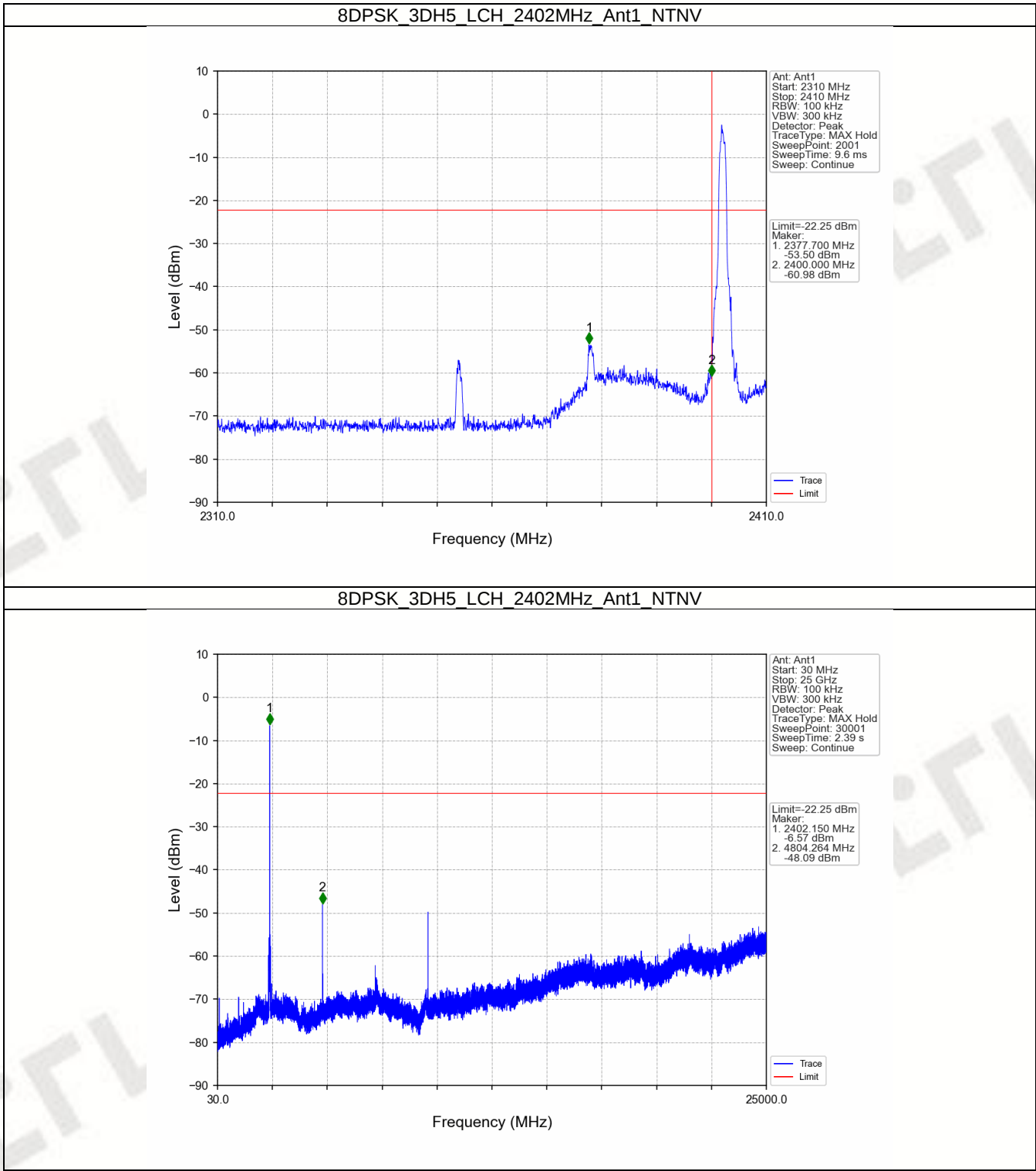
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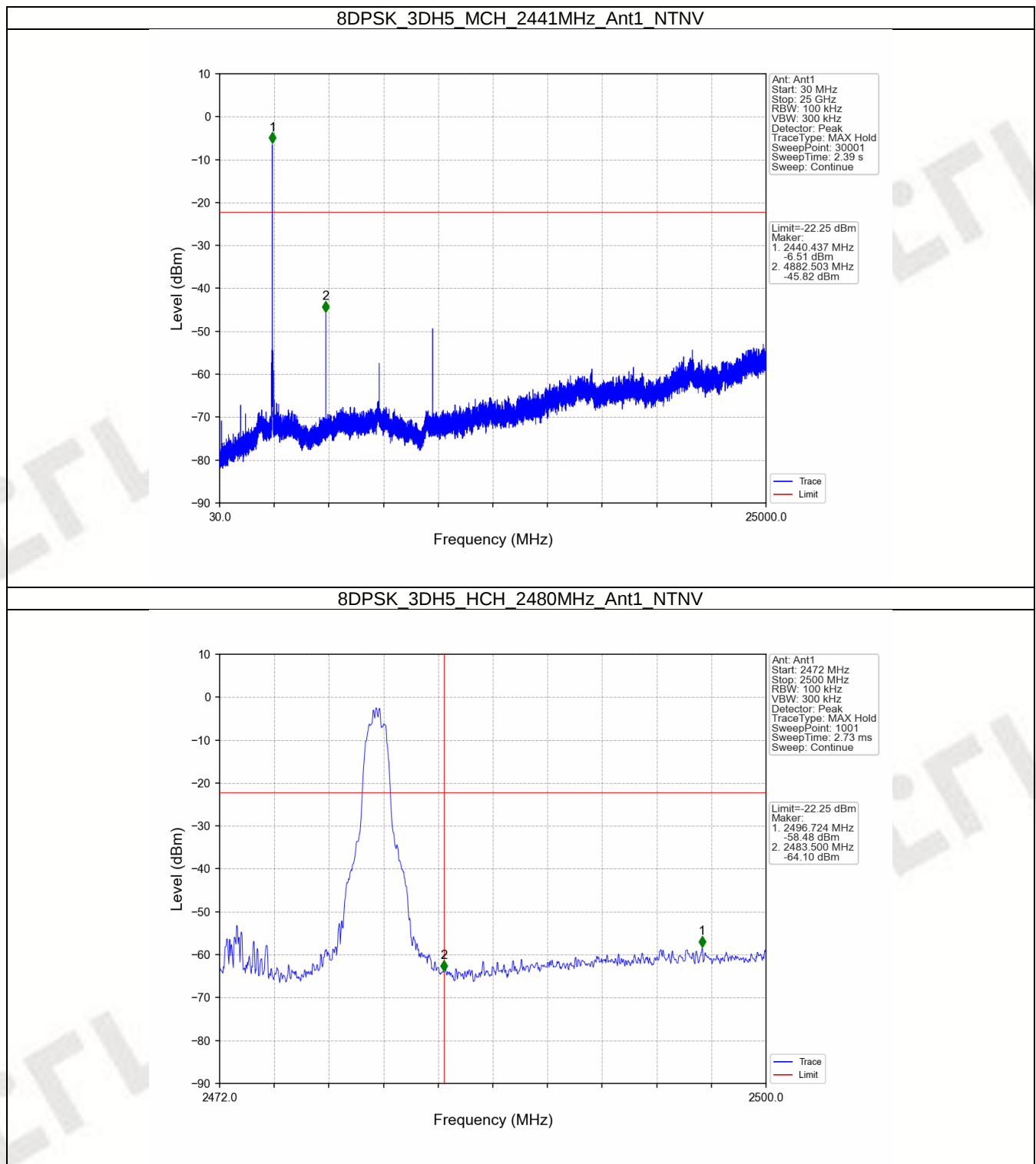
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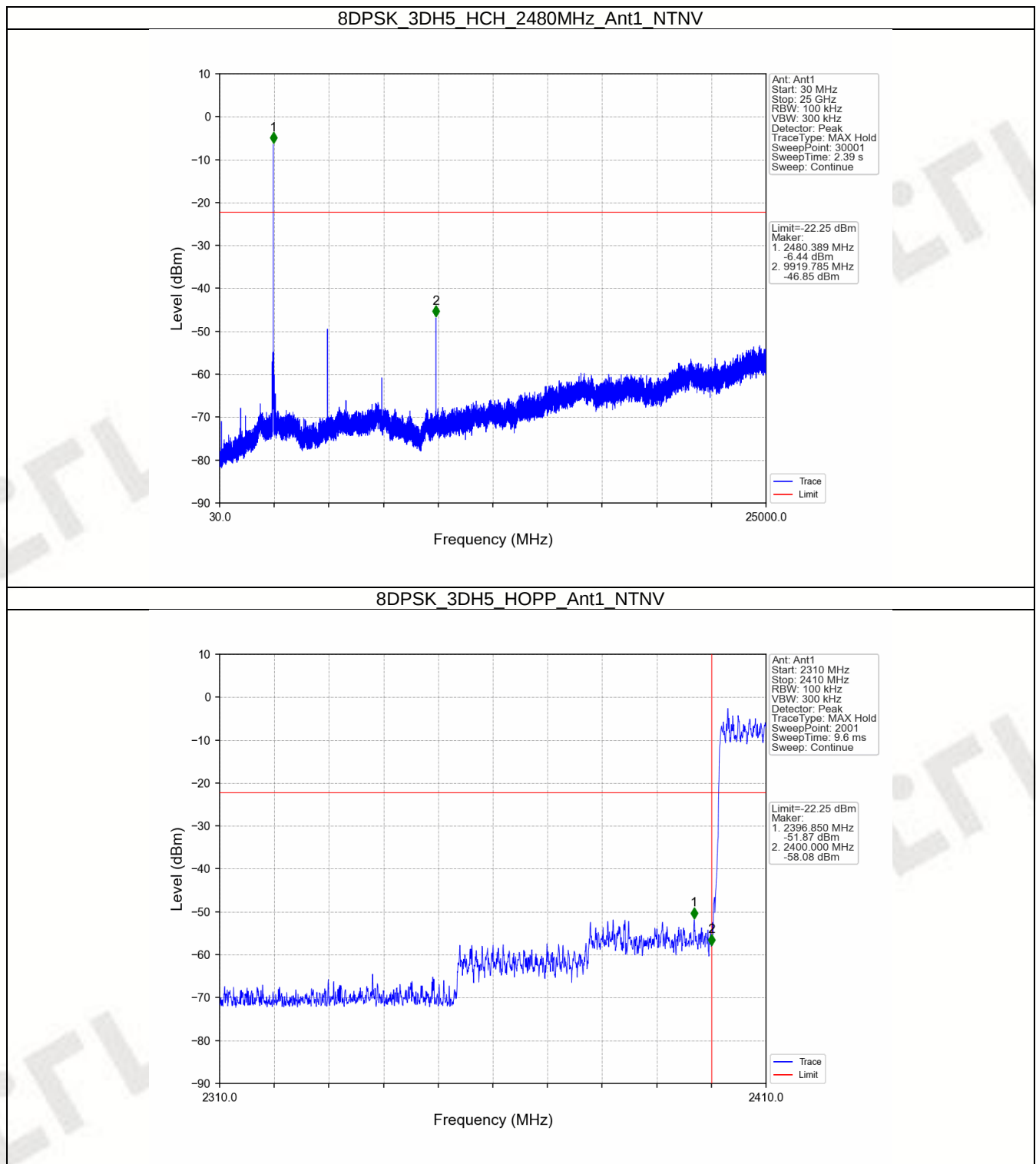
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