



Annex for BT

Test Report No.: CTL2405163031-WF01

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FCCID: 2BCUE-P8GLOBAL

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.832	/	Pass
		2441	DH5	1	0.831	/	Pass
		2480	DH5	1	0.834	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.175	/	Pass
		2441	2DH5	1	1.181	/	Pass
		2480	2DH5	1	1.175	/	Pass
8DPSK	SISO	2402	3DH5	1	1.178	/	Pass
		2441	3DH5	1	1.181	/	Pass
		2480	3DH5	1	1.180	/	Pass

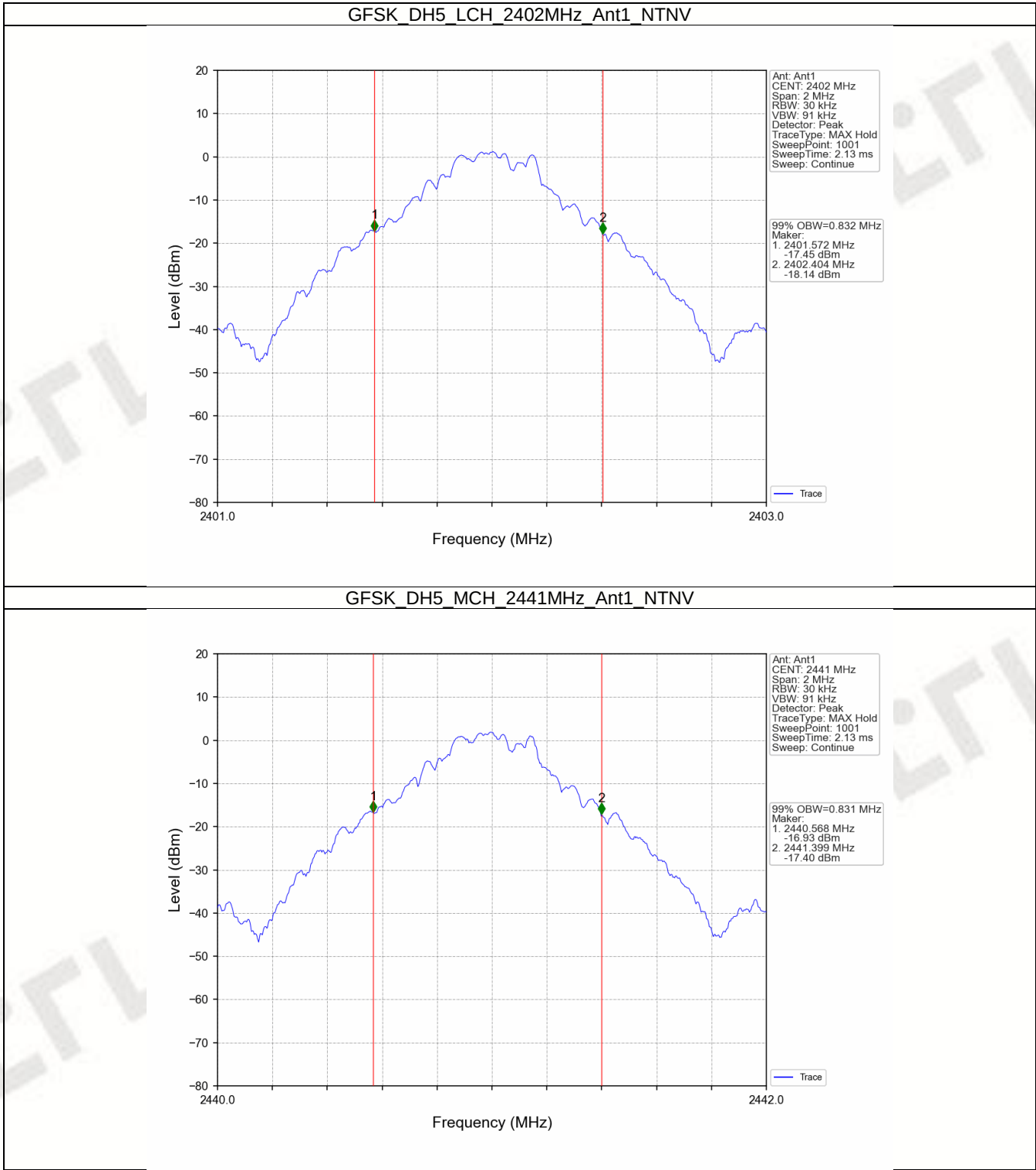
1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.942	/	Pass
		2441	DH5	1	0.943	/	Pass
		2480	DH5	1	0.940	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.296	/	Pass
		2441	2DH5	1	1.295	/	Pass
		2480	2DH5	1	1.293	/	Pass
8DPSK	SISO	2402	3DH5	1	1.309	/	Pass
		2441	3DH5	1	1.310	/	Pass
		2480	3DH5	1	1.310	/	Pass

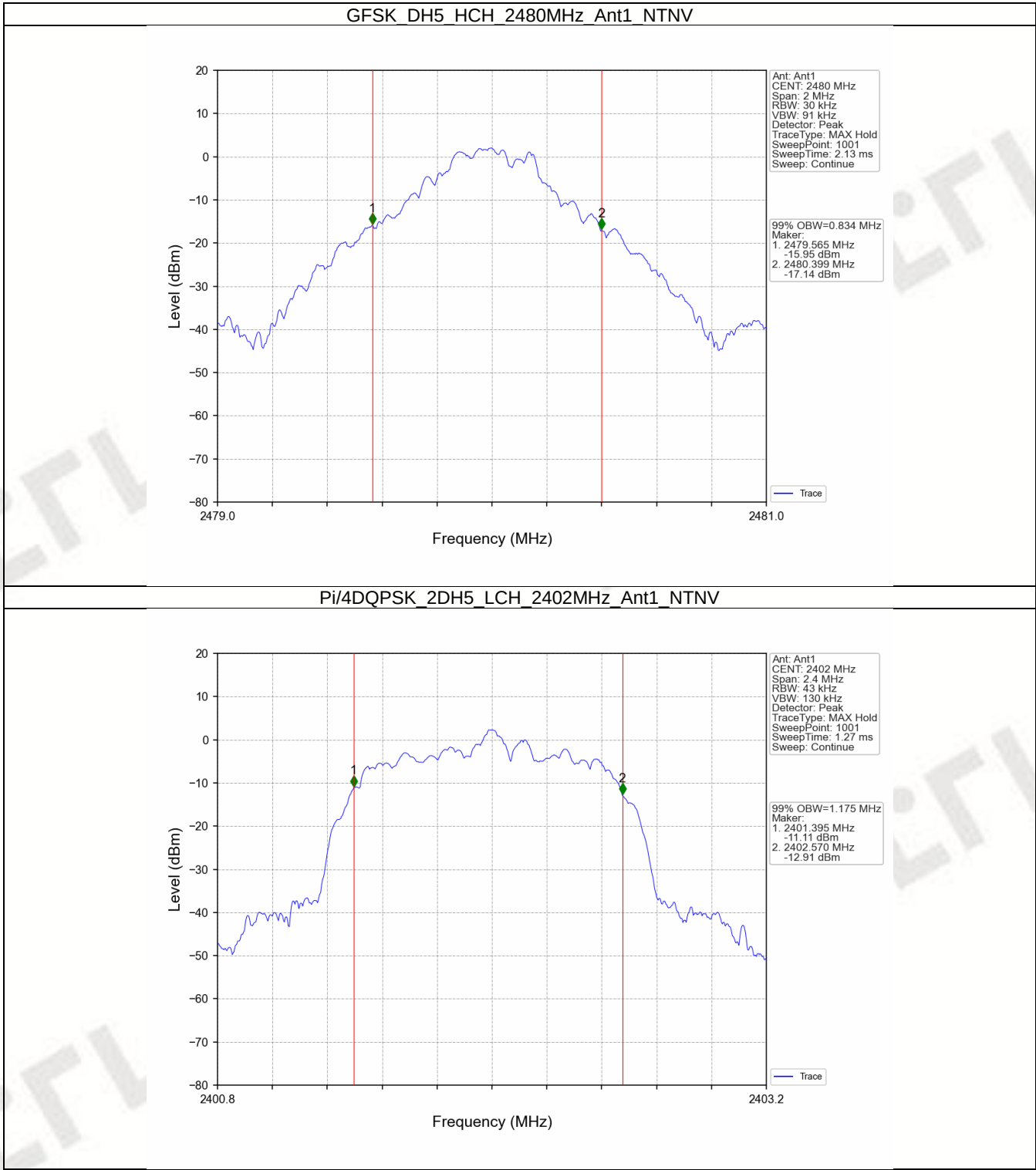
FCCID: 2BCUE-P8GLOBAL

1.2 Test Graph

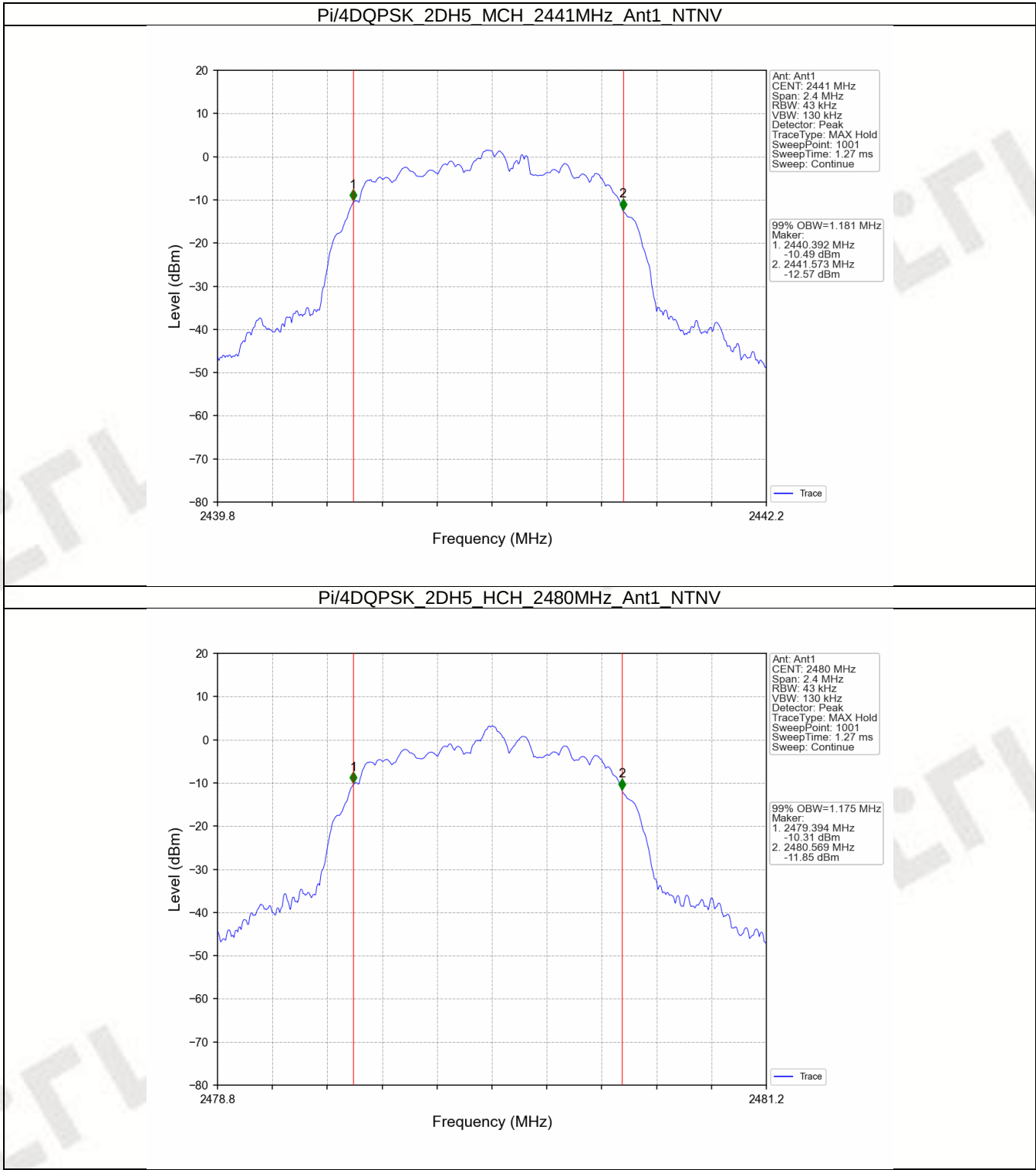
1.2.1 OBW



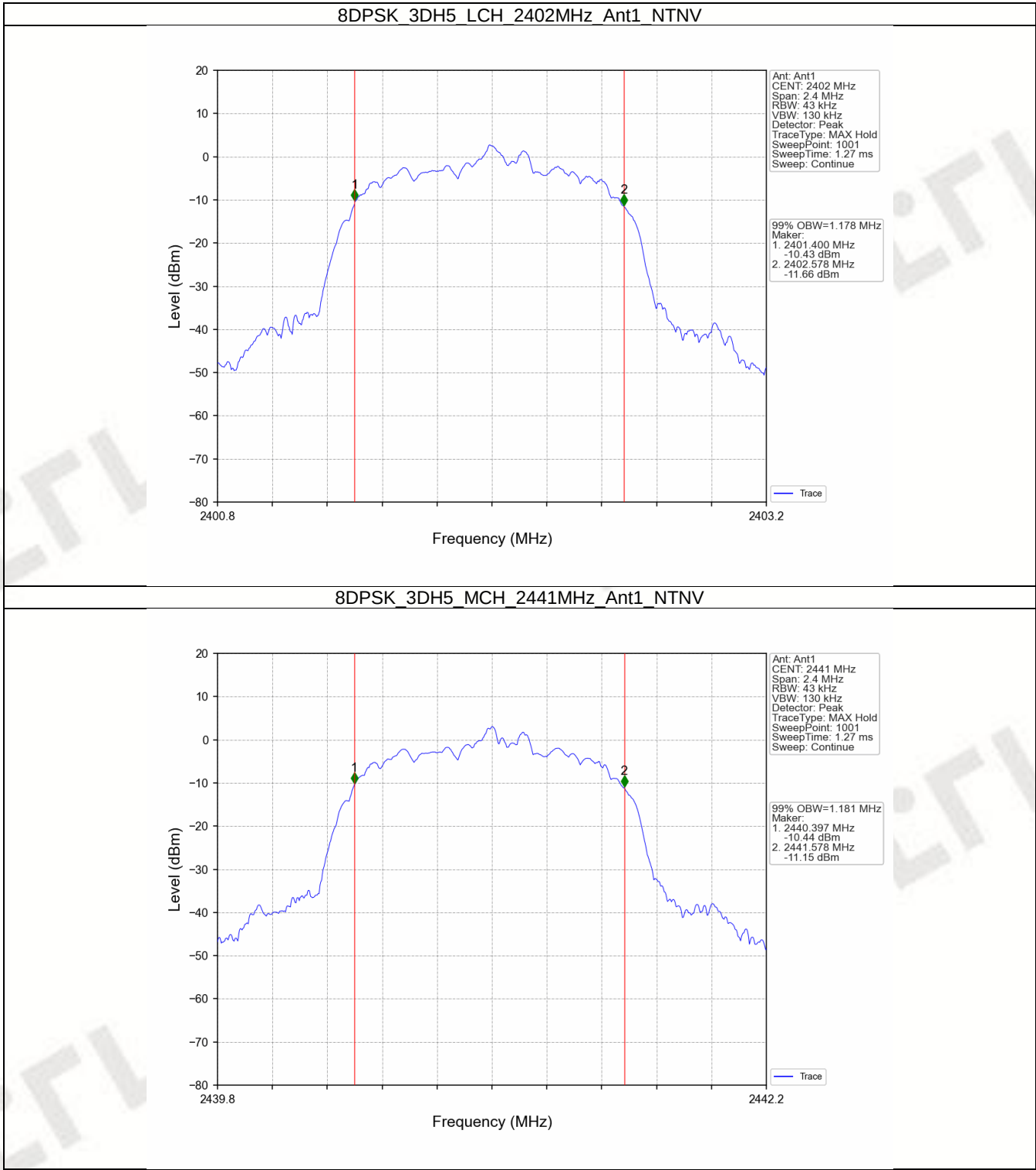
FCCID: 2BCUE-P8GLOBAL



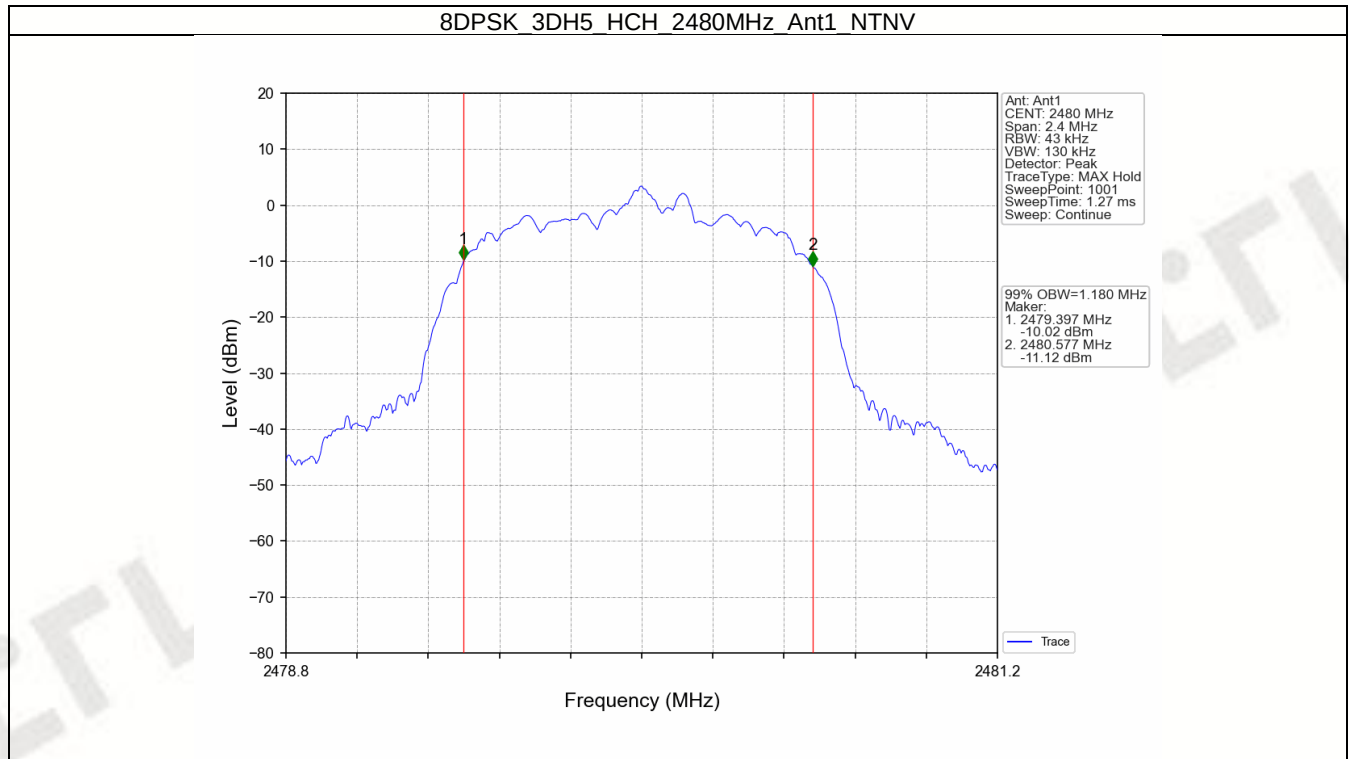
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FCCID: 2BCUE-P8GLOBAL

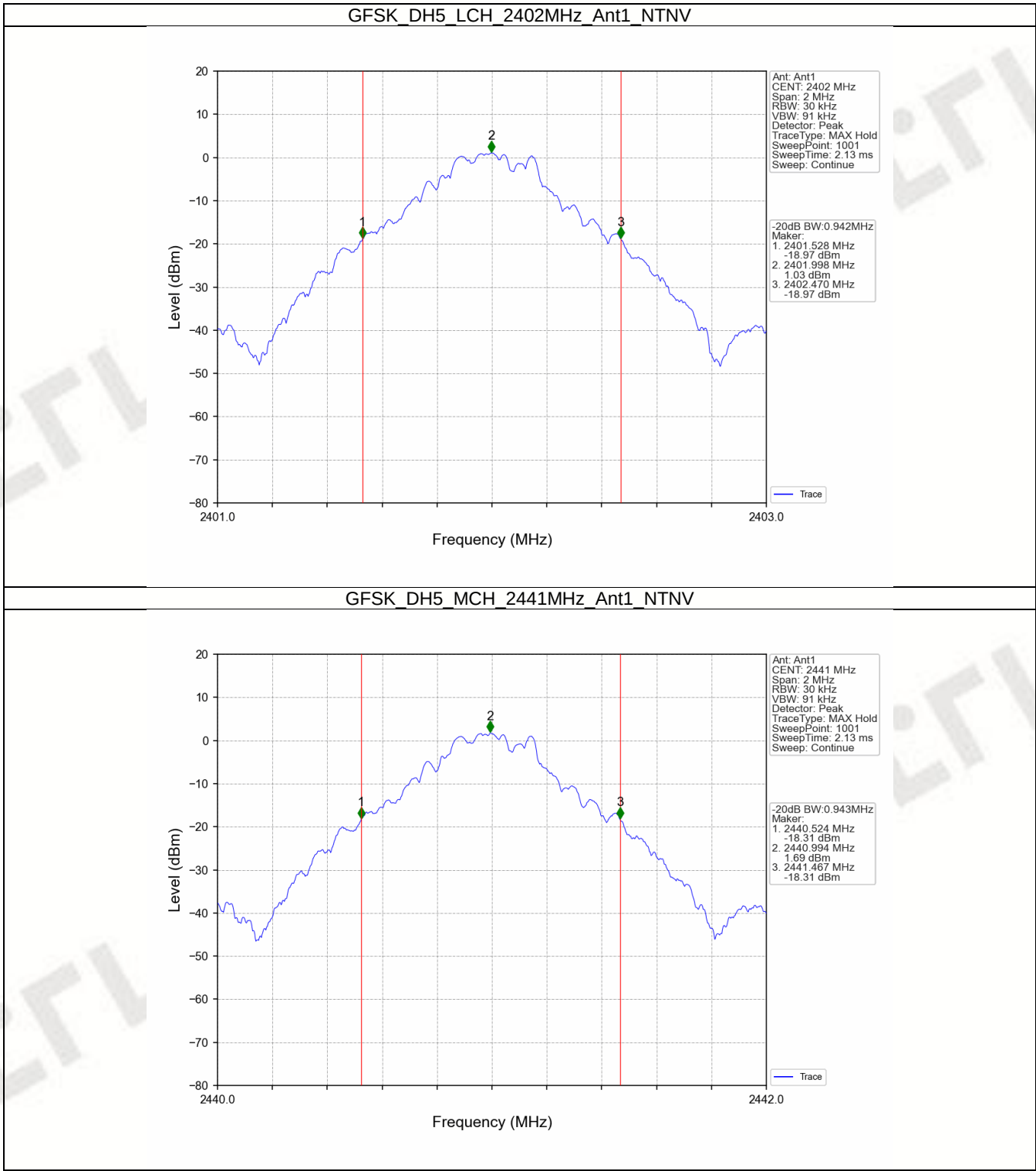


FCCID: 2BCUE-P8GLOBAL

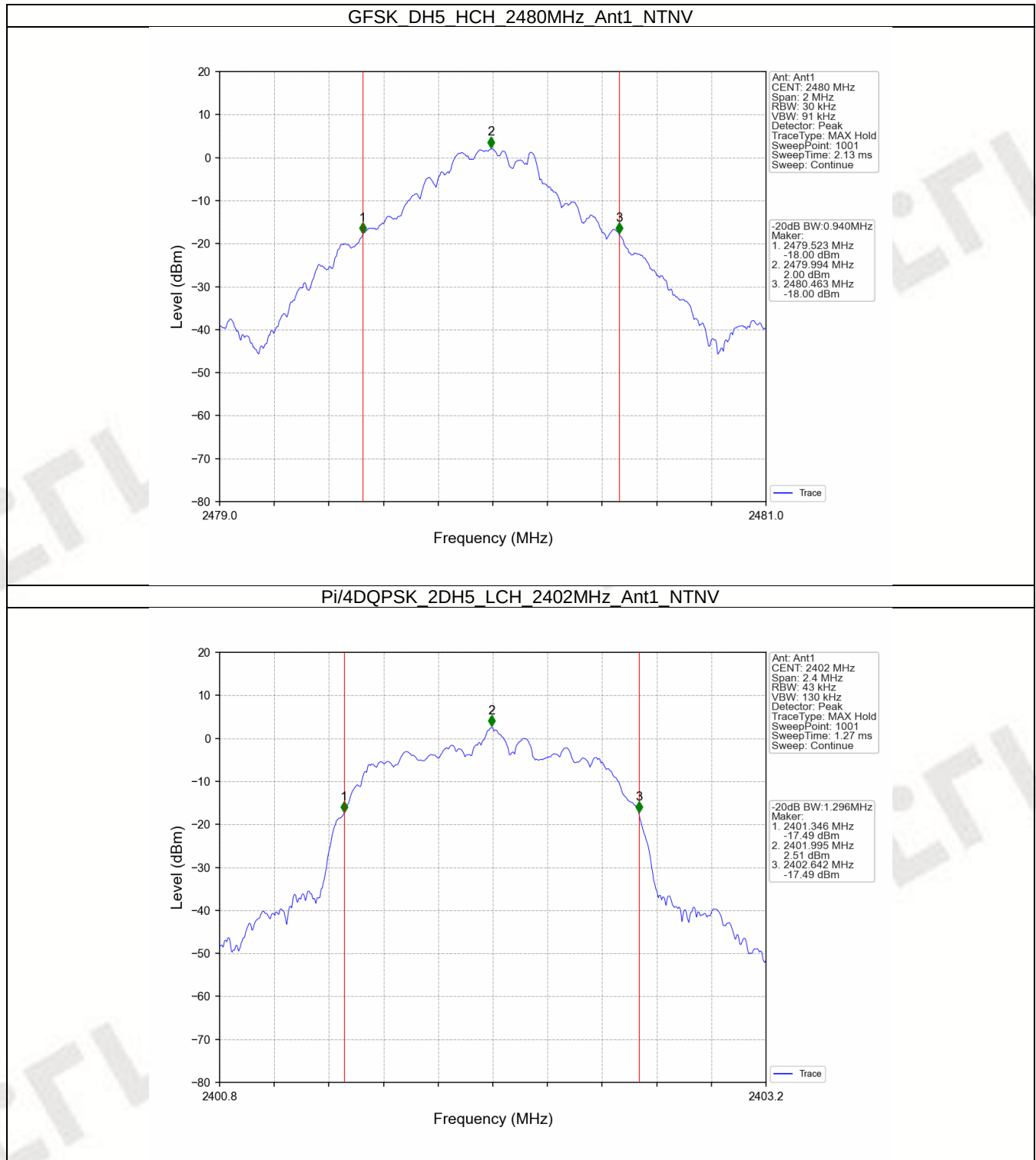


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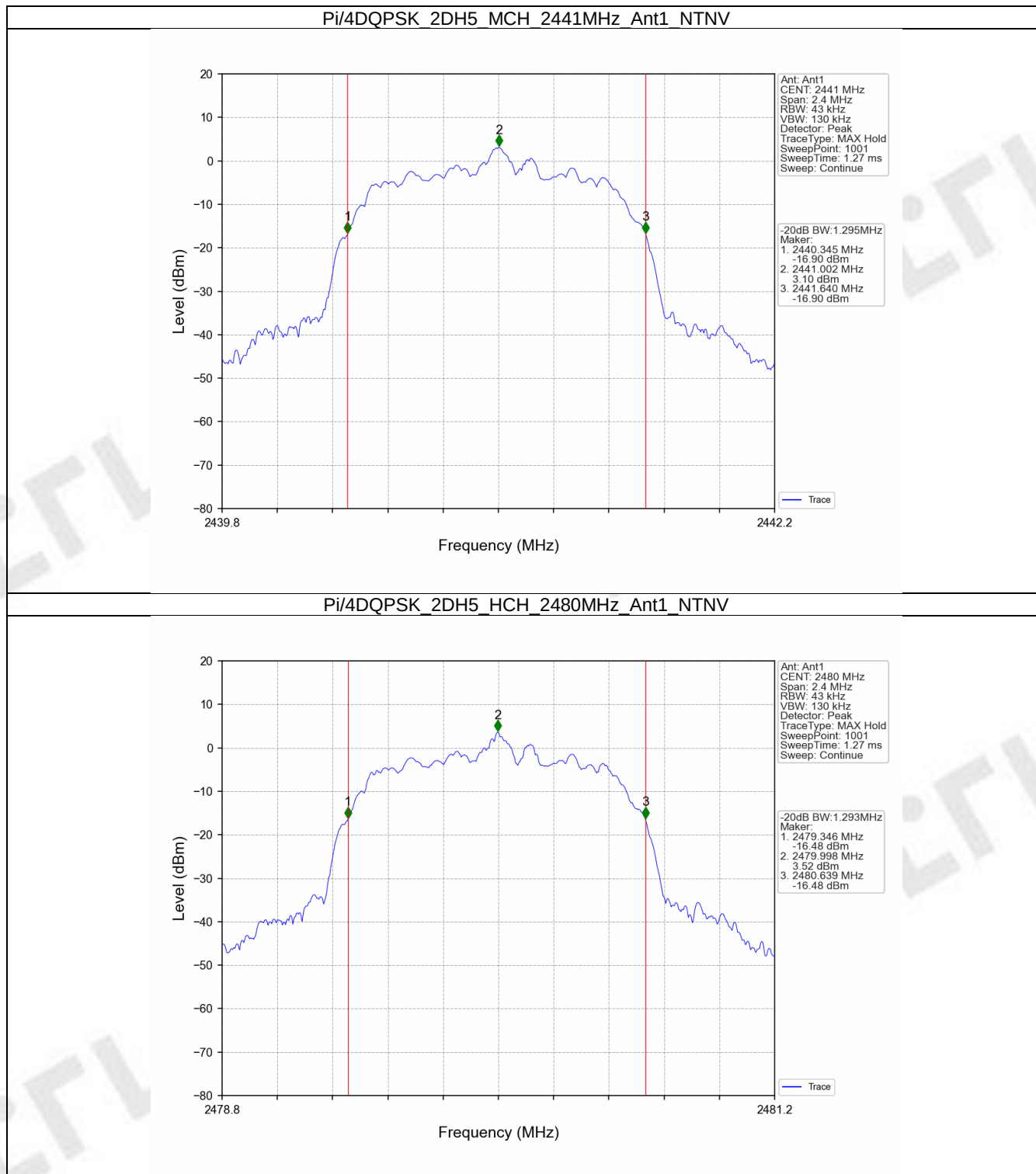
1.2.2 20dB BW



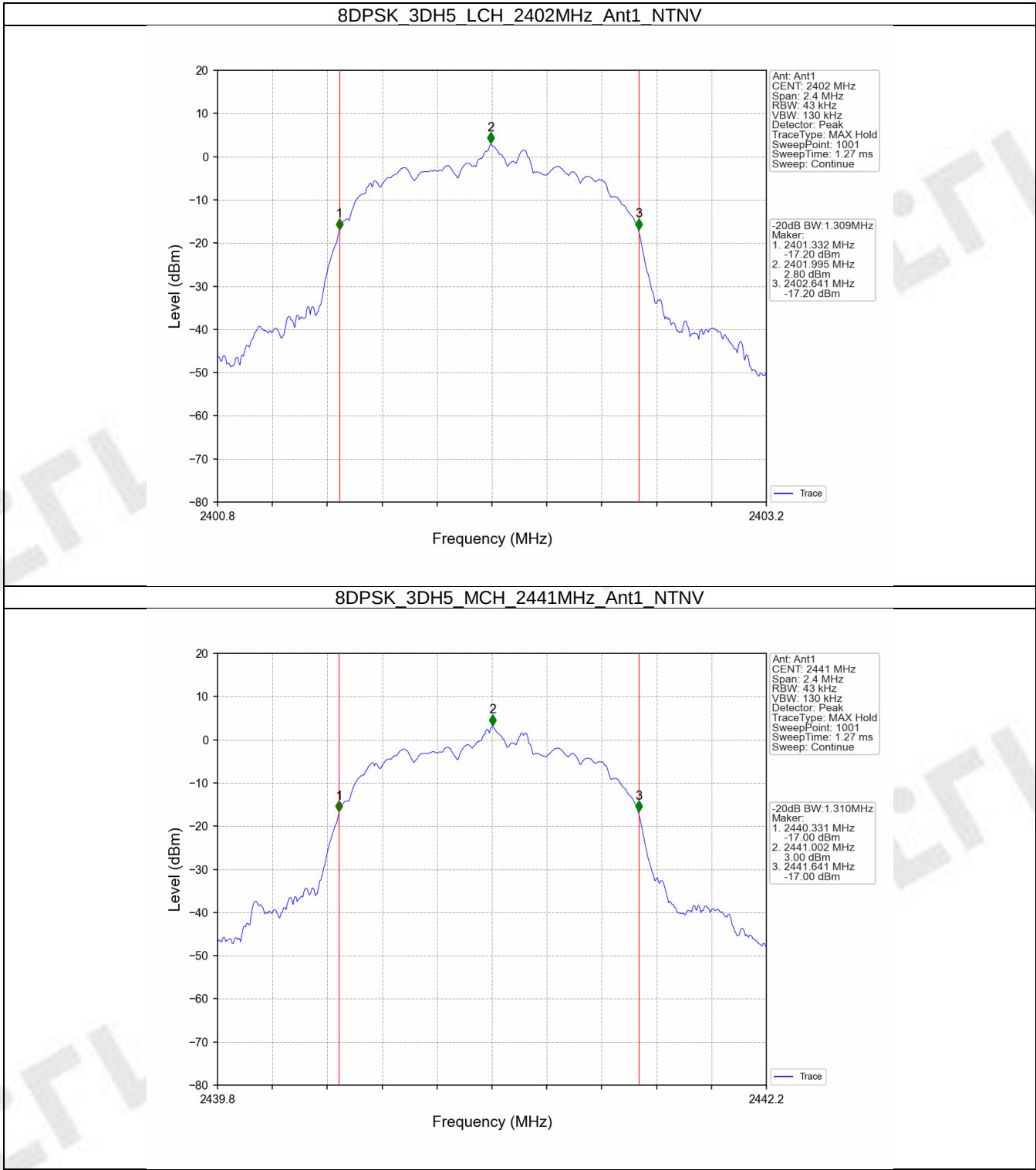
FCCID: 2BCUE-P8GLOBAL



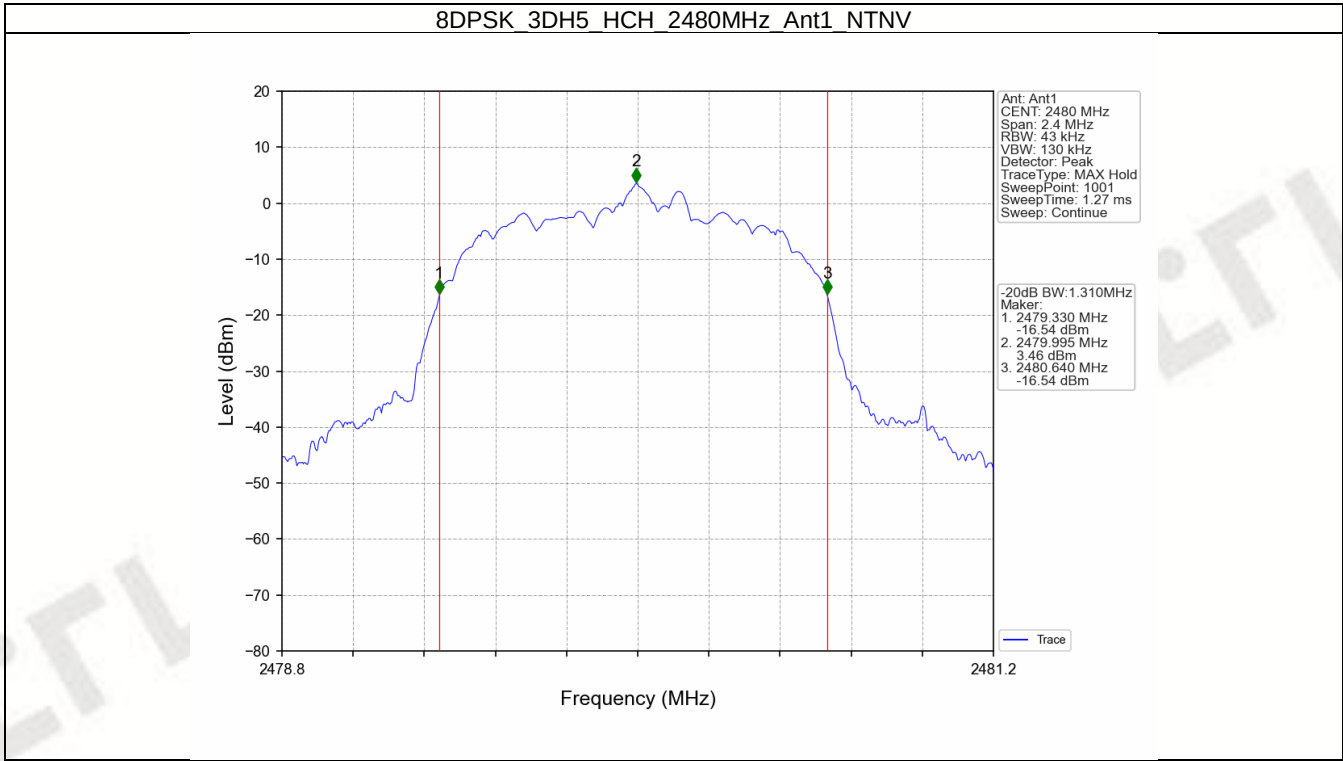
FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL

2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

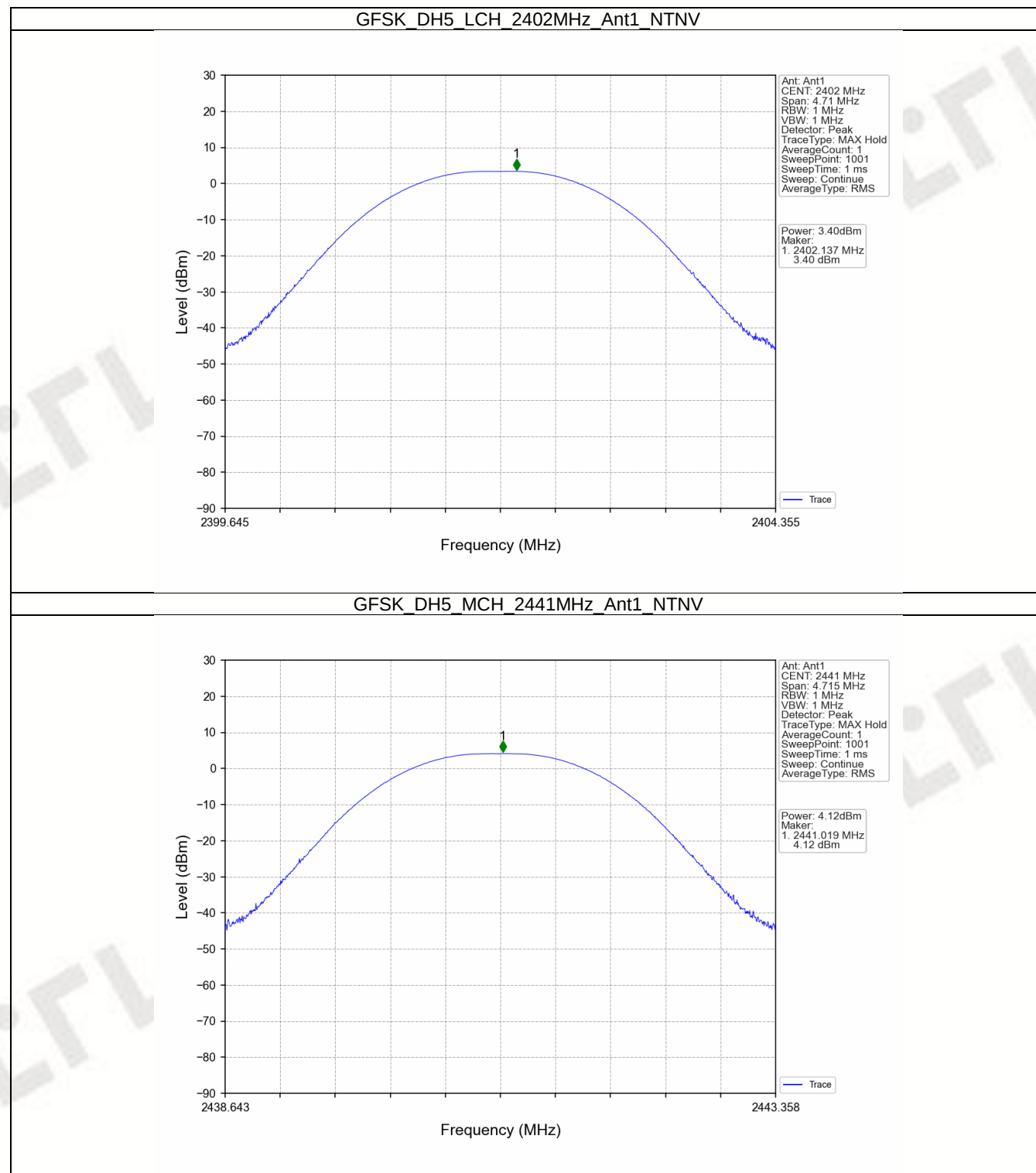
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	3.40	≤ 30	Pass
		2441	DH5	4.12	≤ 30	Pass
		2480	DH5	4.47	≤ 30	Pass
Pi/4DQPSK	SISO	2402	2DH5	5.60	≤ 20.97	Pass
		2441	2DH5	6.26	≤ 20.97	Pass
		2480	2DH5	6.44	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	6.13	≤ 20.97	Pass
		2441	3DH5	6.53	≤ 20.97	Pass
		2480	3DH5	6.73	≤ 20.97	Pass

Note1: Antenna Gain: Ant1: 1.08dBi;

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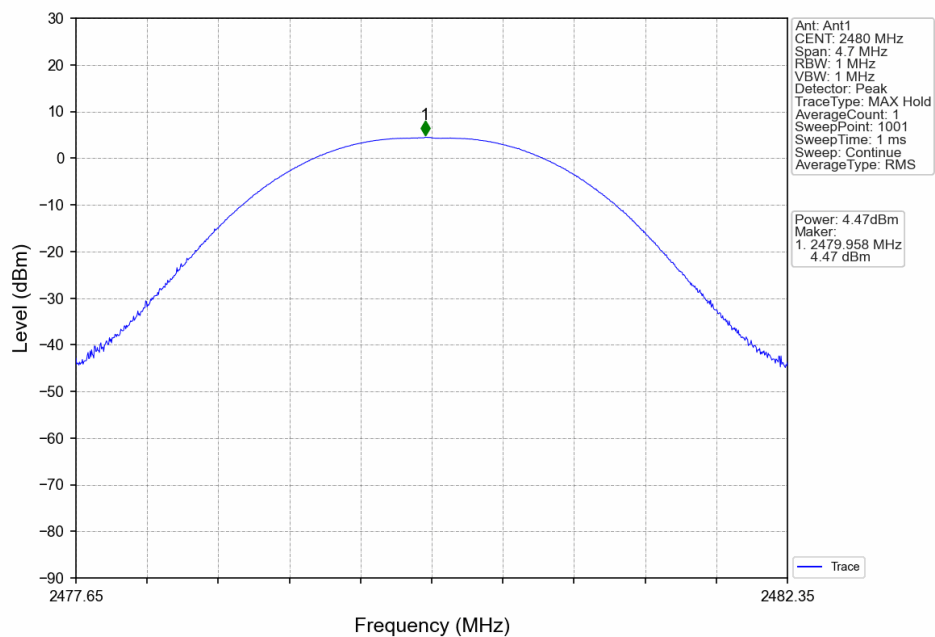
2.2 Test Graph

2.2.1 Power

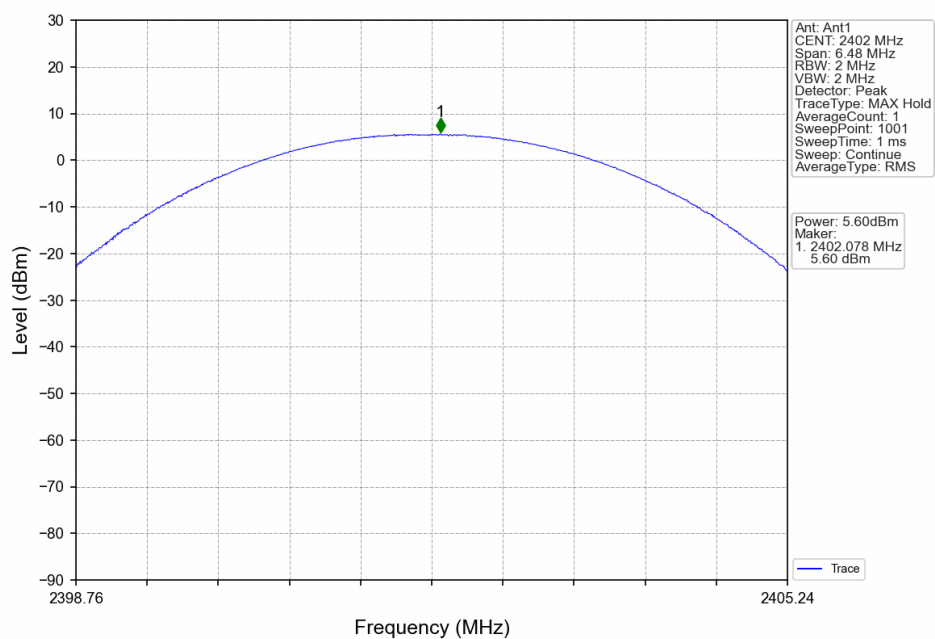


FCCID: 2BCUE-P8GLOBAL

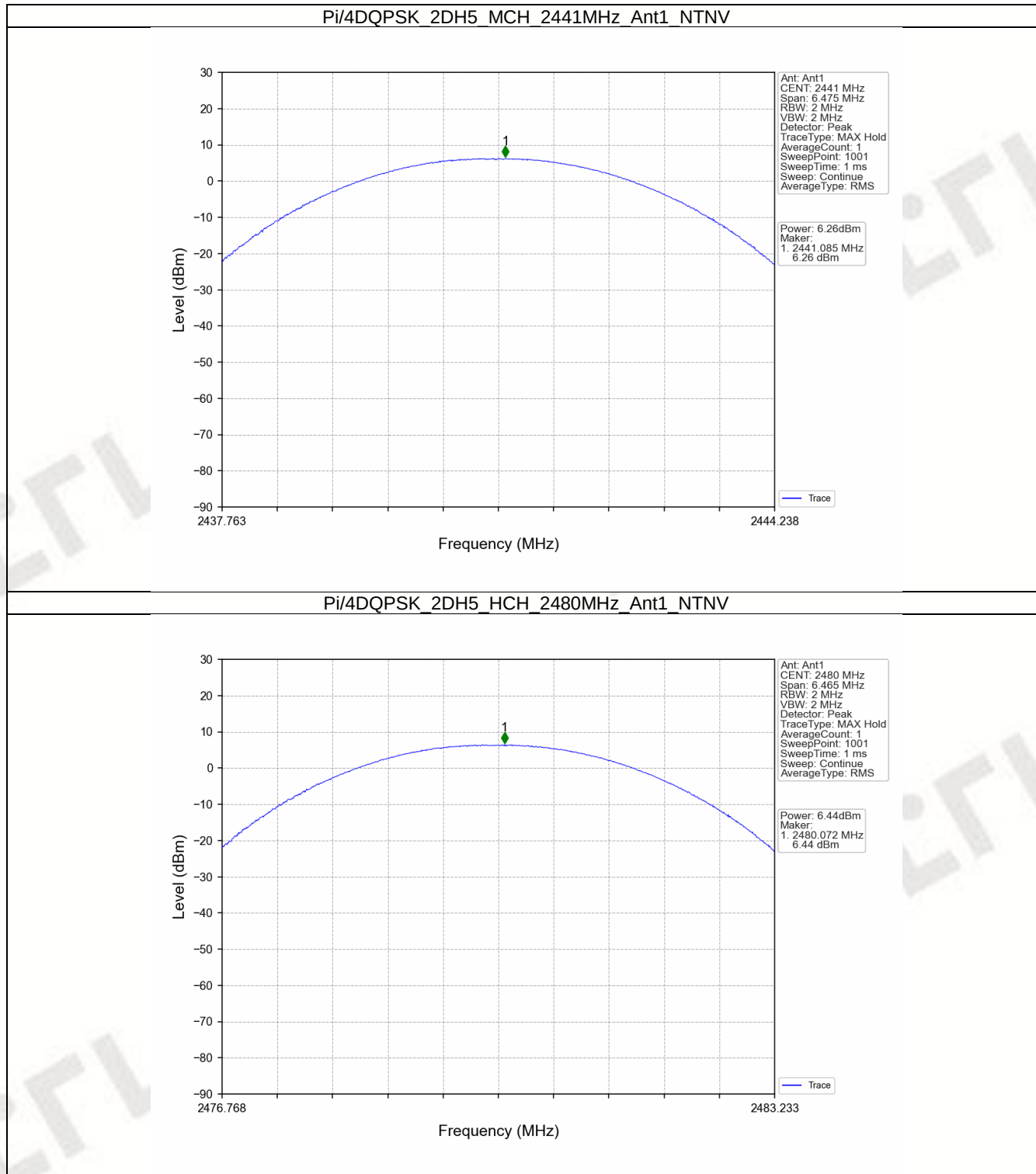
GFSK DH5 HCH 2480MHz Ant1 NTN



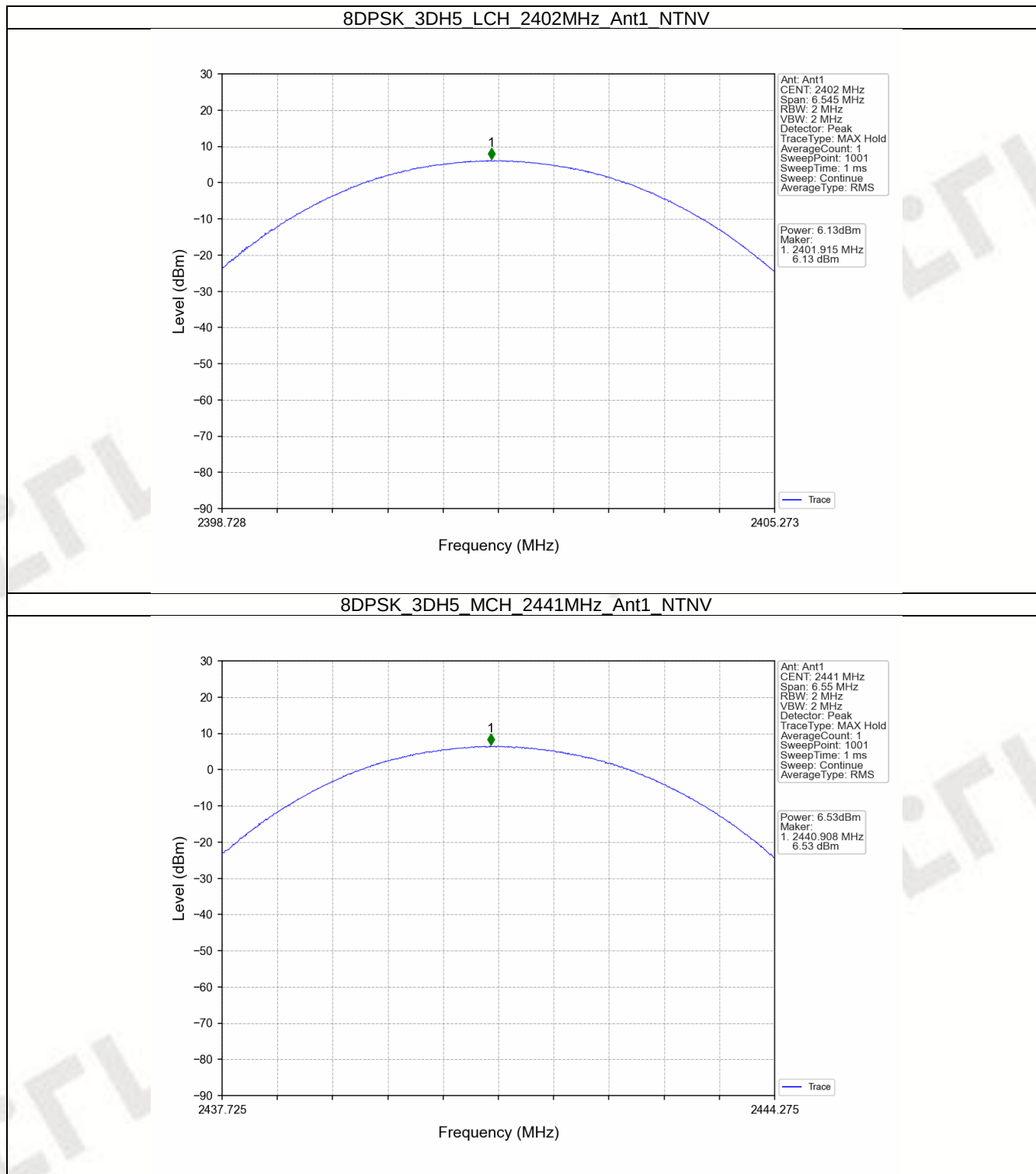
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1 NTN



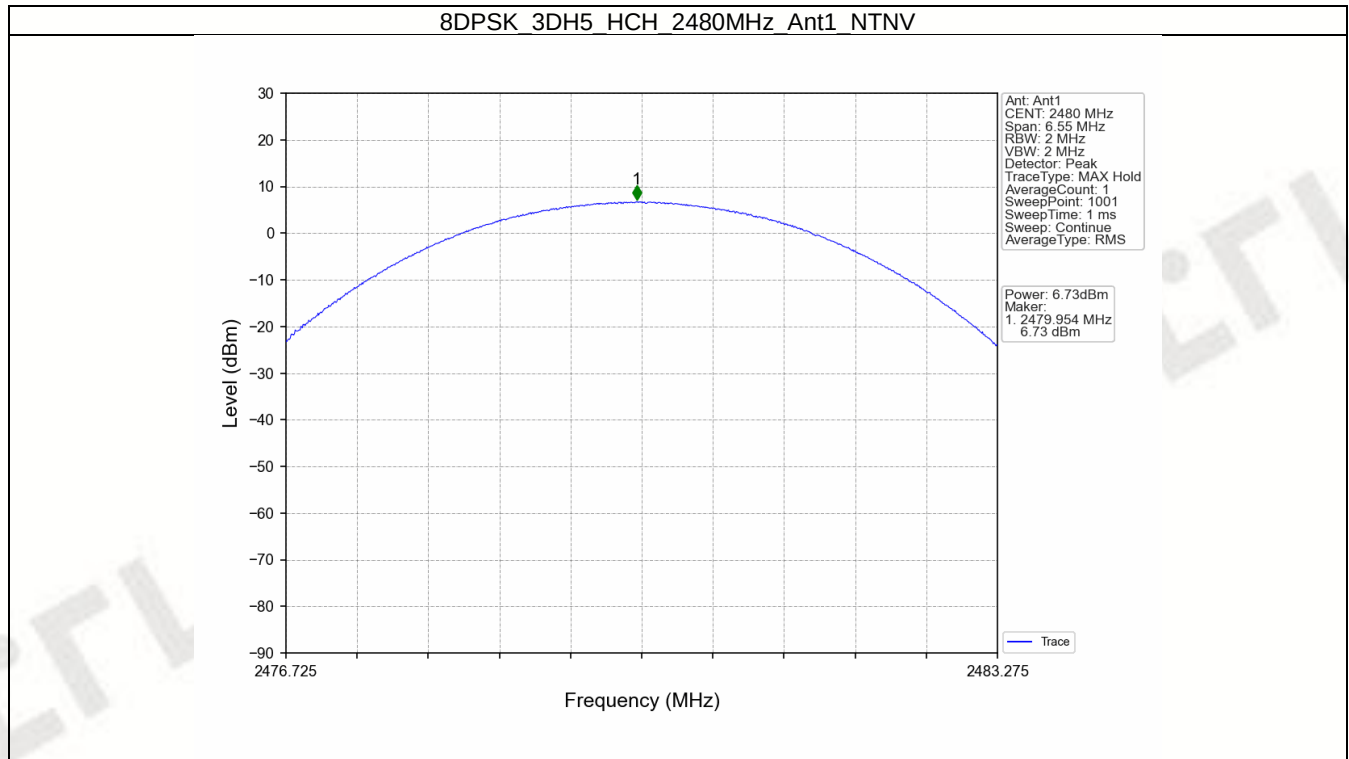
FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL

3. Carrier Frequency Separation

3.1 Test Result

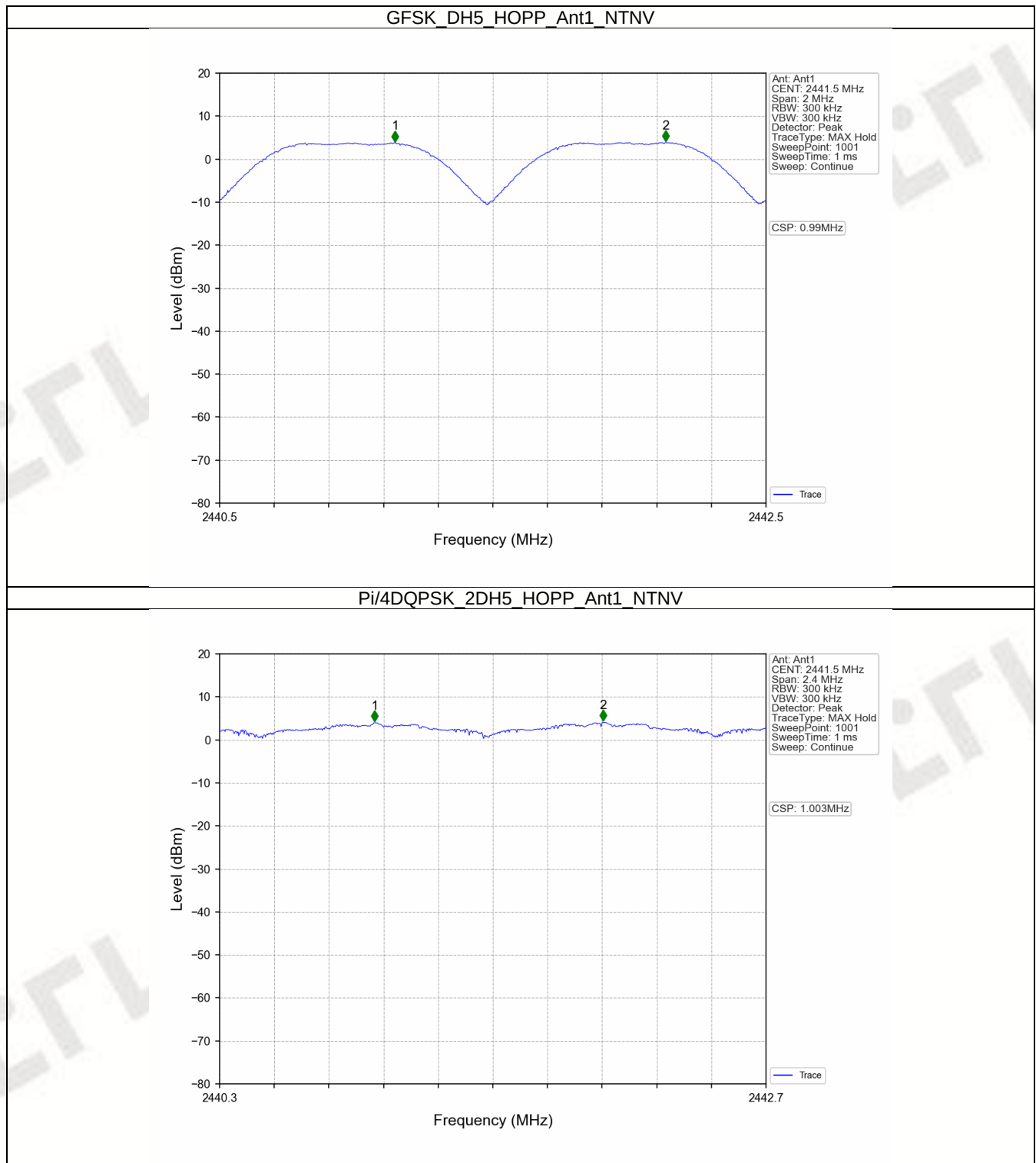
3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.990	0.943	≥ 0.943	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.003	1.296	≥ 0.864	Pass
8DPSK	SISO	HOPP	3DH5	0.991	1.310	≥ 0.873	Pass

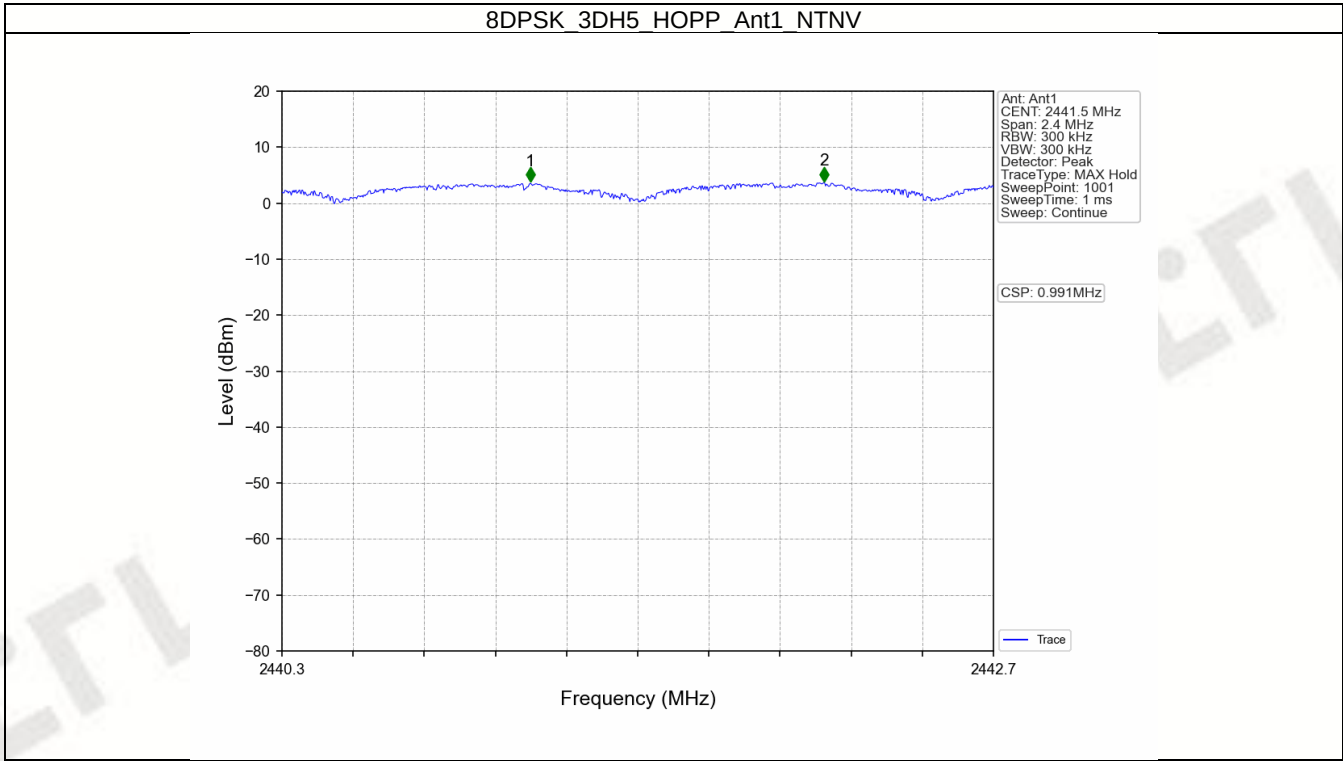
FCCID: 2BCUE-P8GLOBAL

3.2 Test Graph

3.2.1 Ant1



FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL

4. Number of Hopping Frequencies

4.1 Test Result

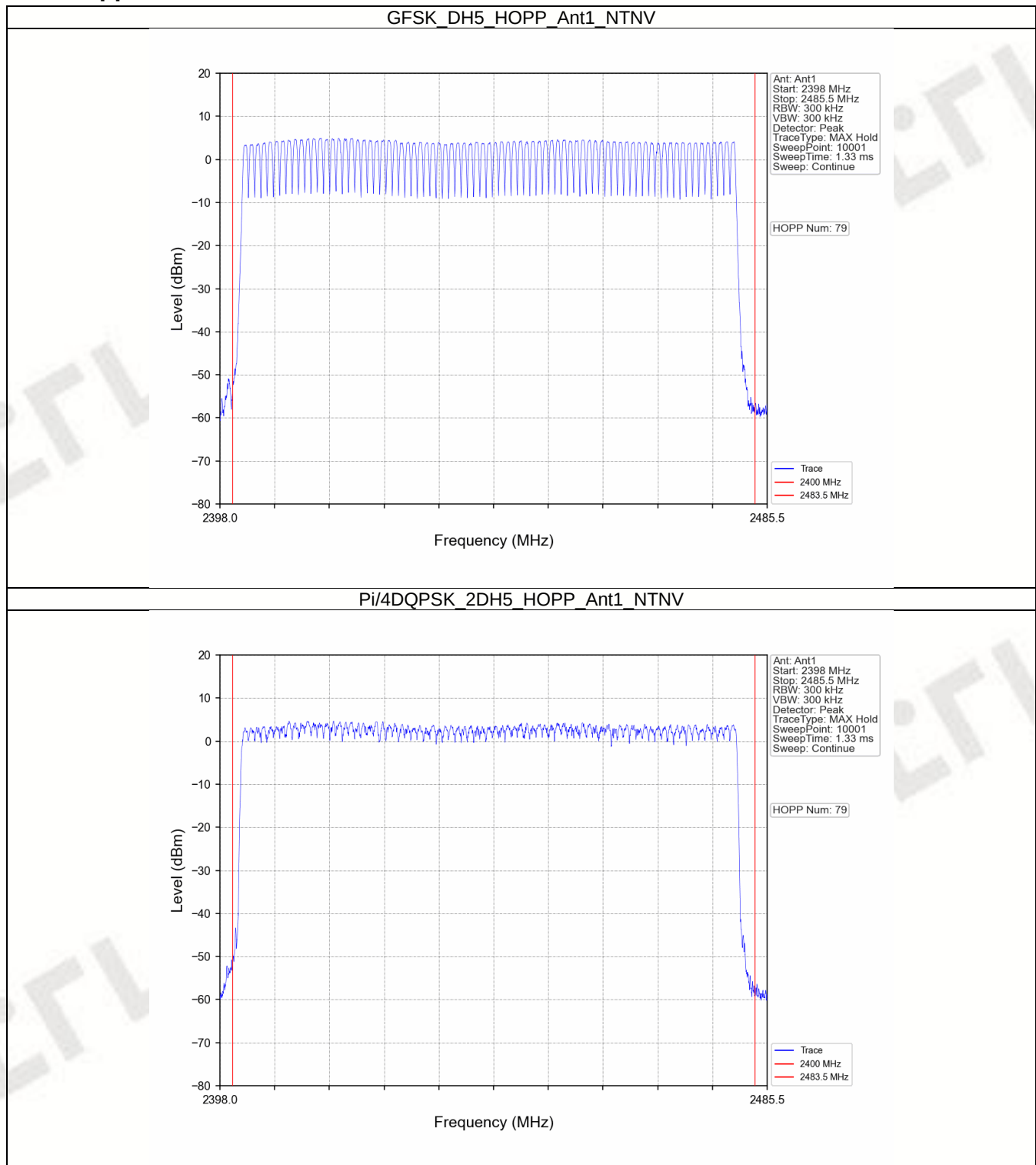
4.1.1 HoppNum

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

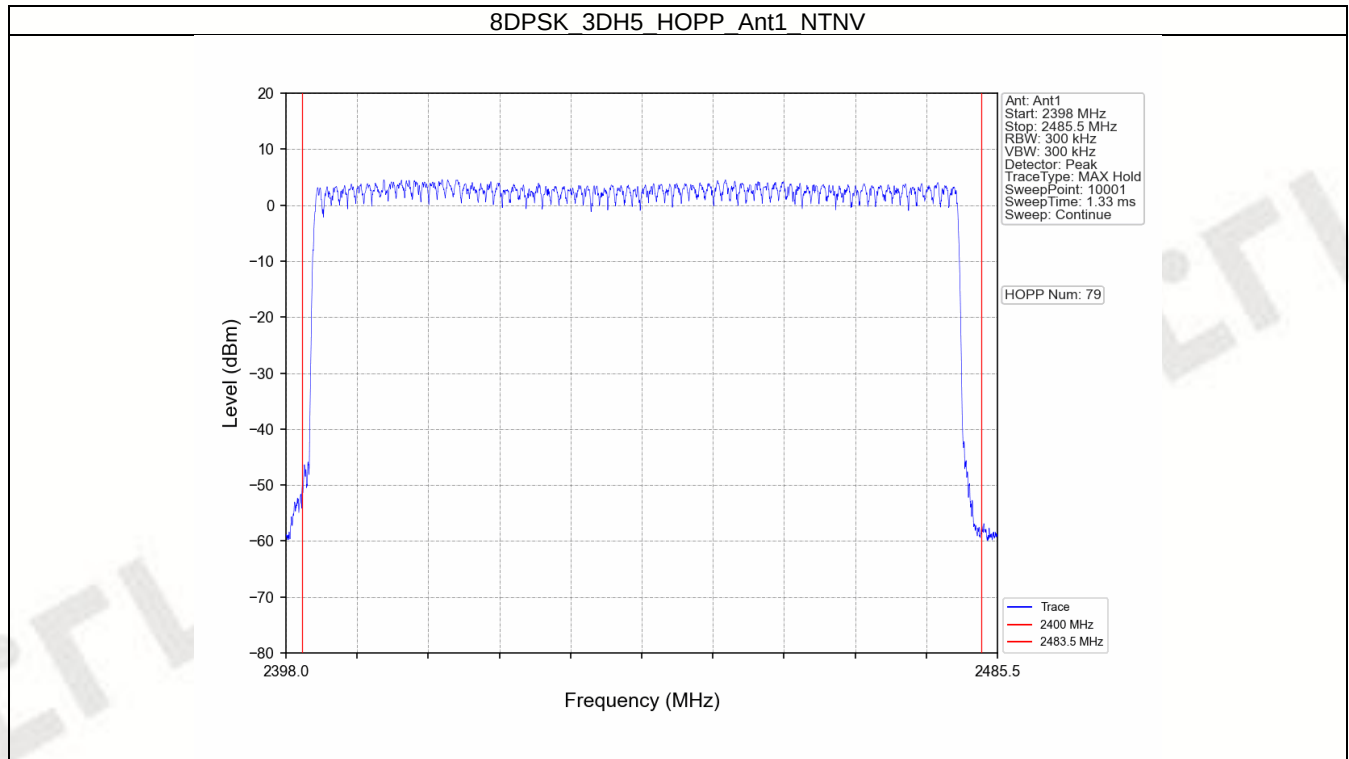
FCCID: 2BCUE-P8GLOBAL

4.2 Test Graph

4.2.1 HoppNum



FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL

5. Time of Occupancy (Dwell Time)

5.1 Test Result

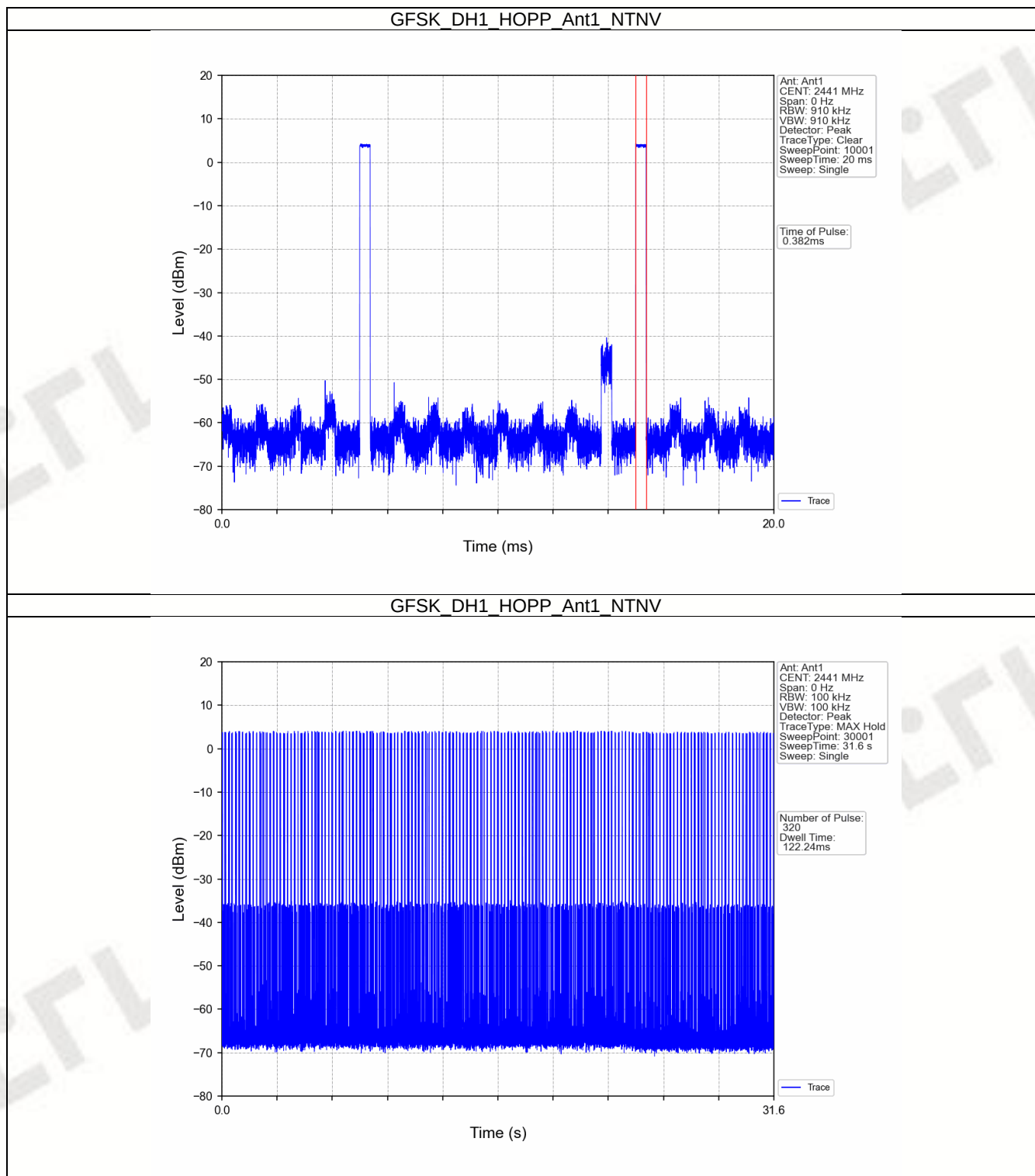
5.1.1 Ant1

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	0.382	31.600	320	122.240	<=400	Pass
			DH3	1.640	31.600	155	254.200	<=400	Pass
			DH5	2.888	31.600	98	283.024	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	320	126.720	<=400	Pass
			2DH3	1.646	31.600	150	246.900	<=400	Pass
			2DH5	2.898	31.600	101	292.698	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.398	31.600	320	127.360	<=400	Pass
			3DH3	1.646	31.600	155	255.130	<=400	Pass
			3DH5	2.896	31.600	93	269.328	<=400	Pass

FCCID: 2BCUE-P8GLOBAL

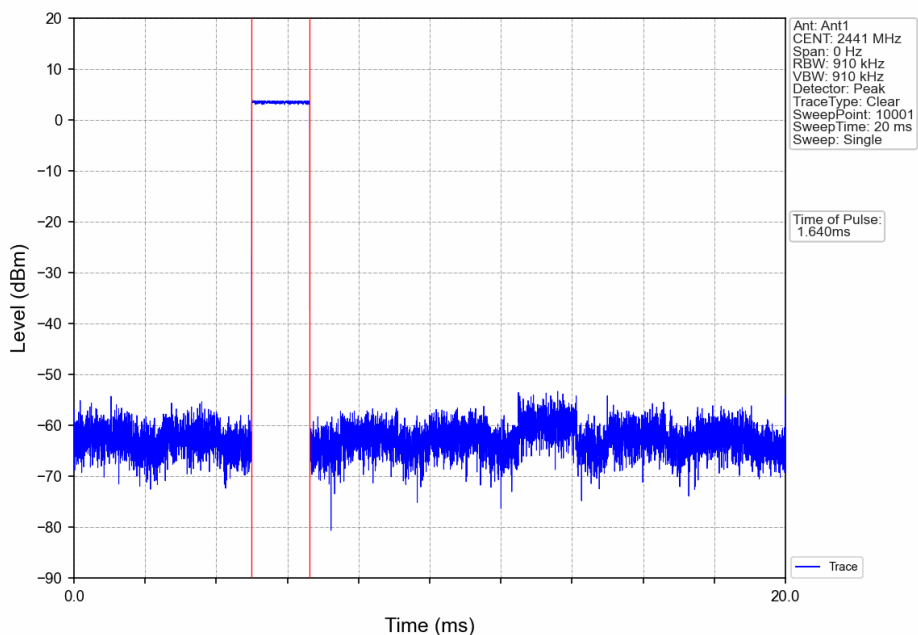
5.2 Test Graph

5.2.1 Ant1

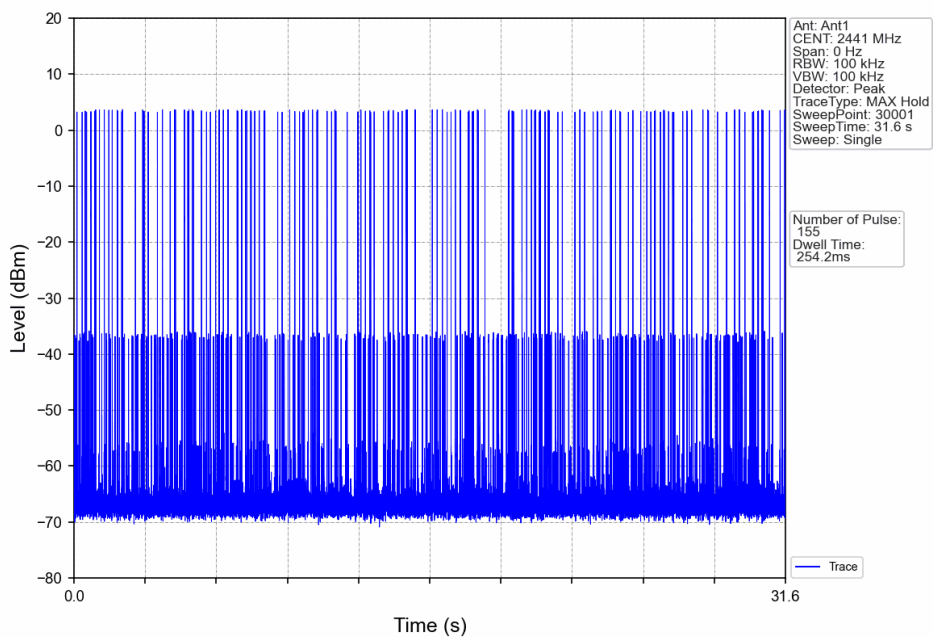


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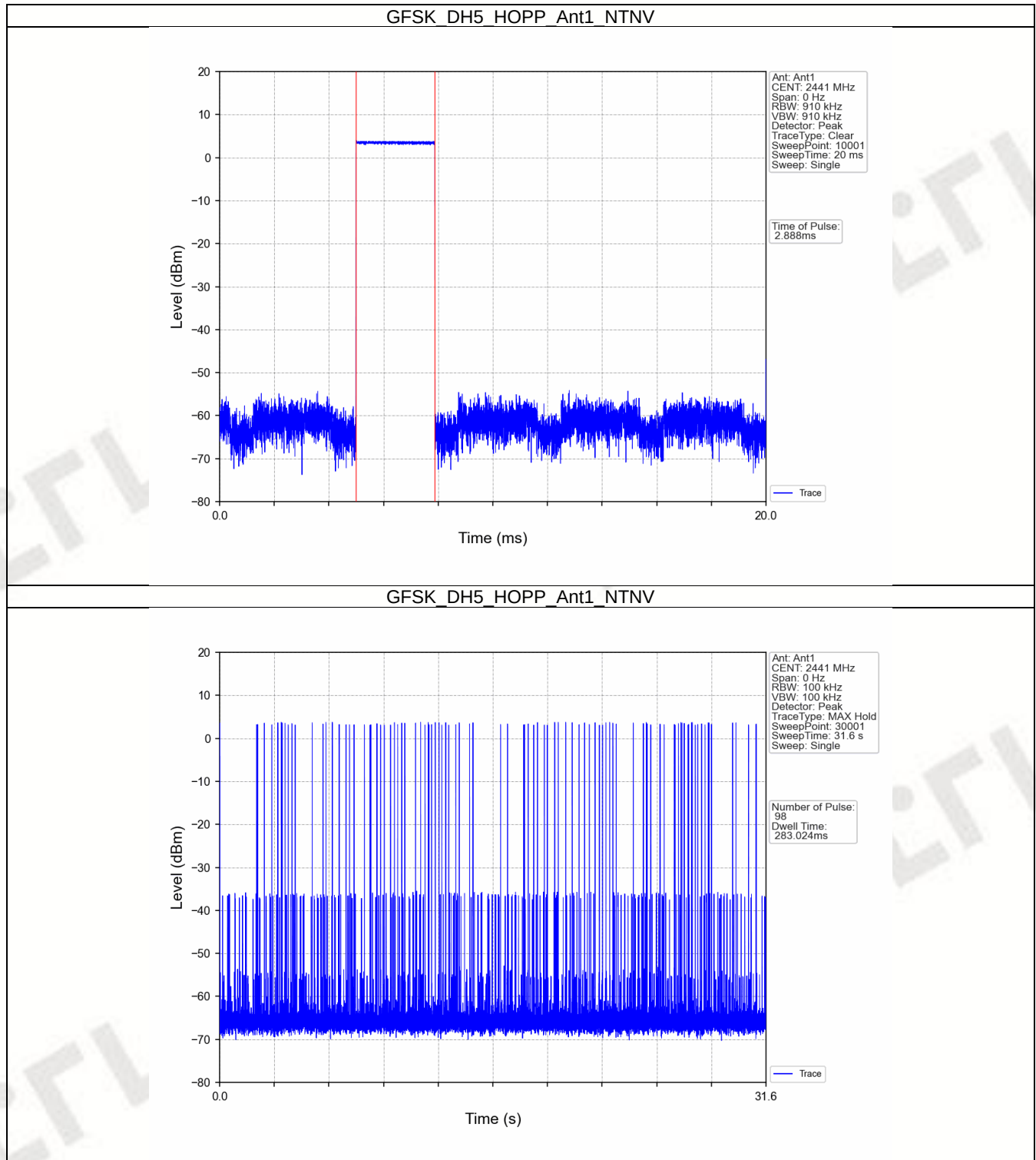
GFSK DH3 HOPP Ant1 NTN



GFSK_DH3_HOPP_Ant1_NTNV

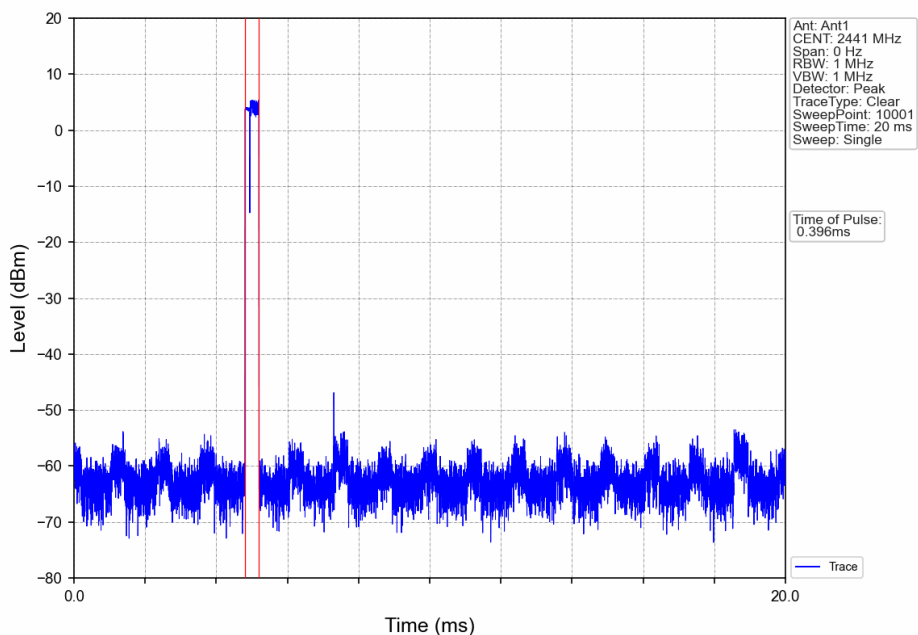


FCCID: 2BCUE-P8GLOBAL

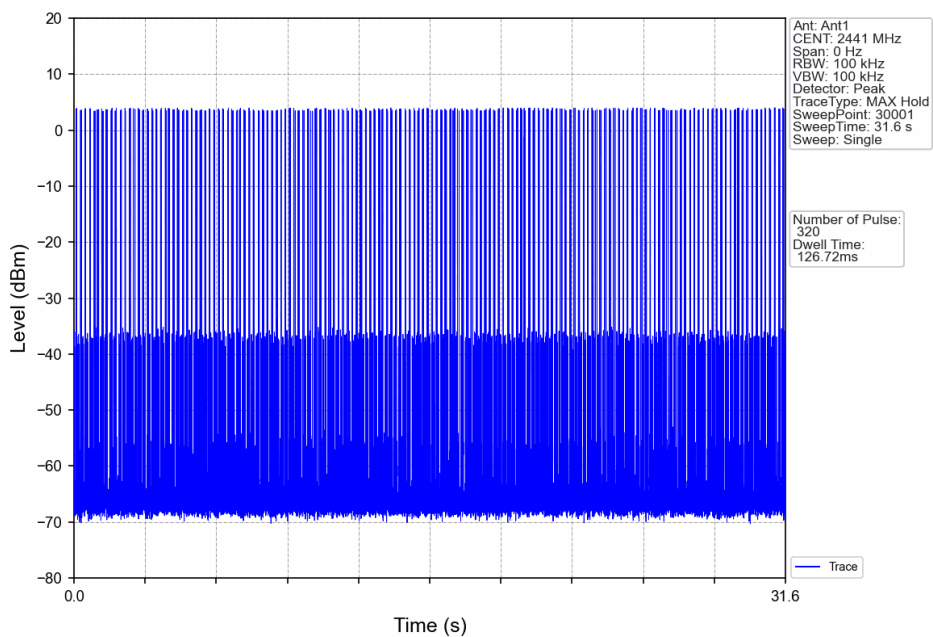


FCCID: 2BCUE-P8GLOBAL

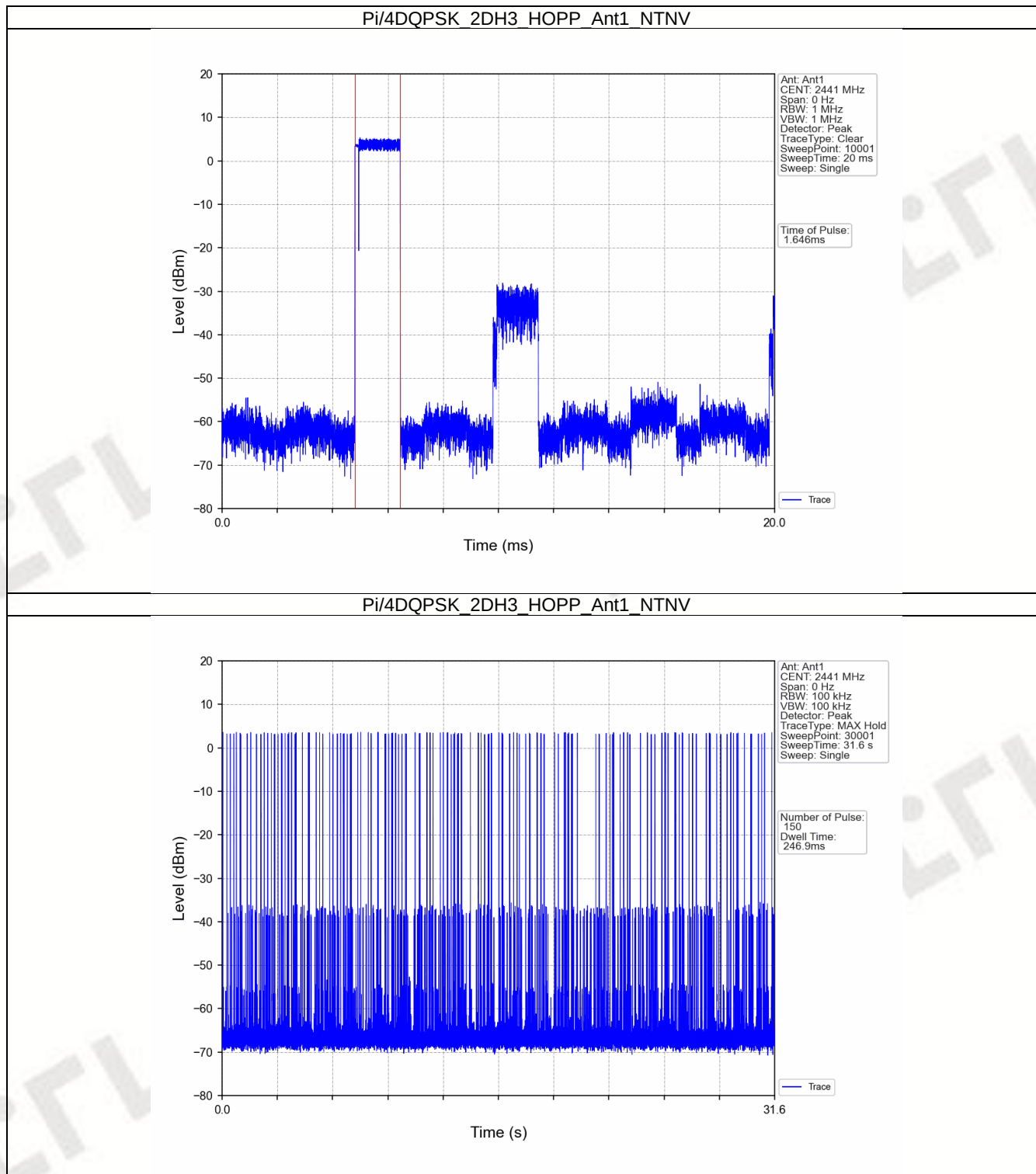
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



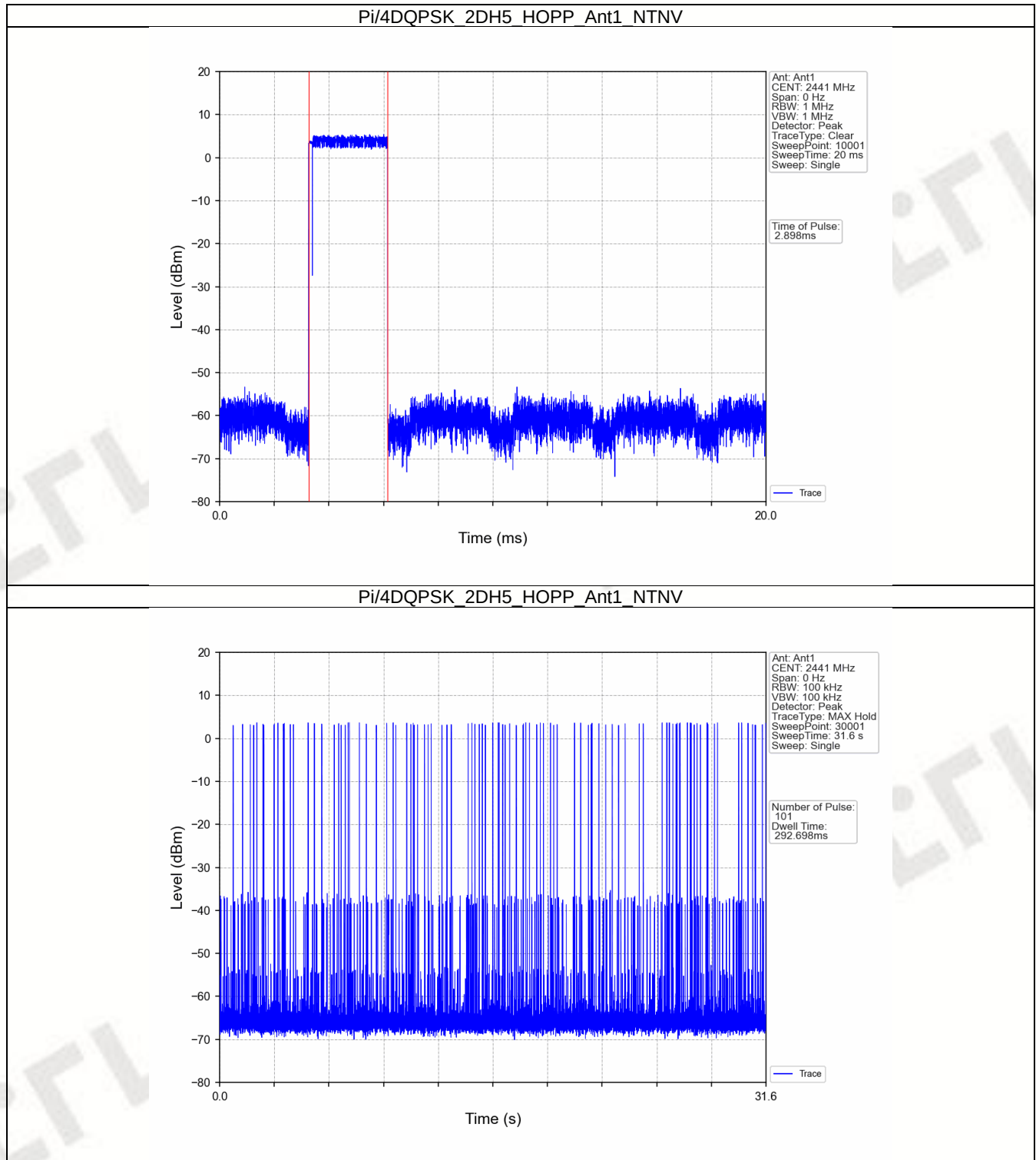
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



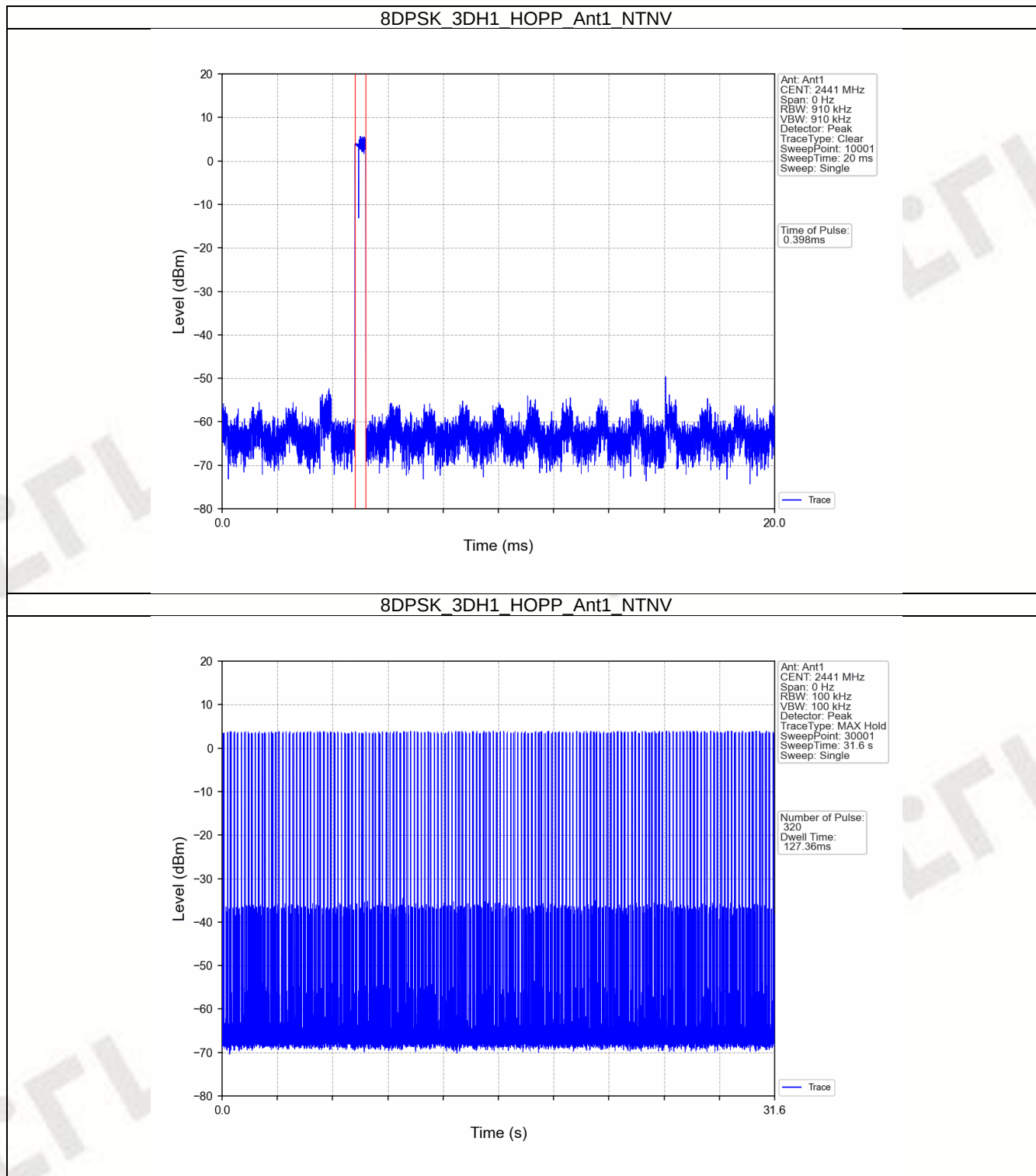
FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL

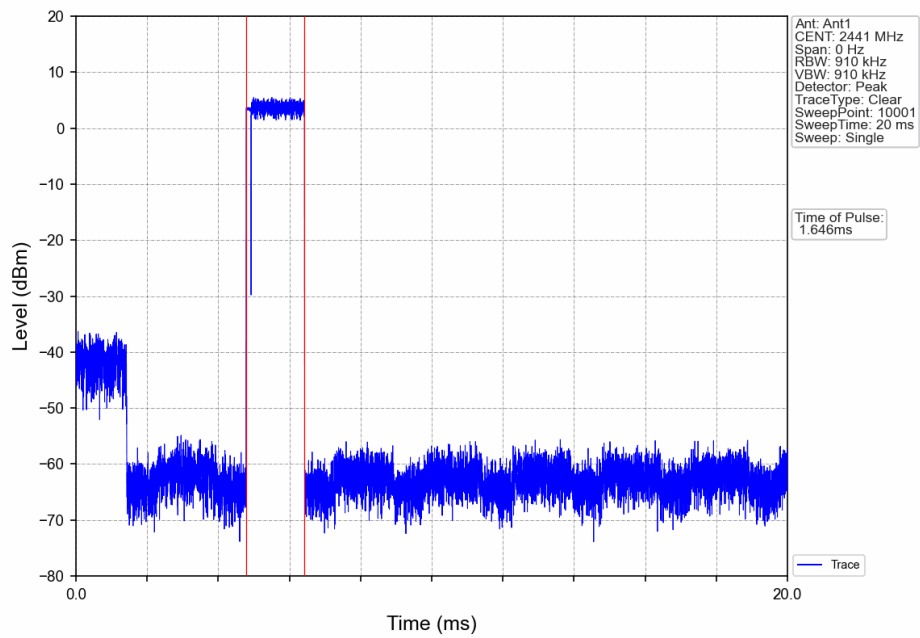


FCCID: 2BCUE-P8GLOBAL

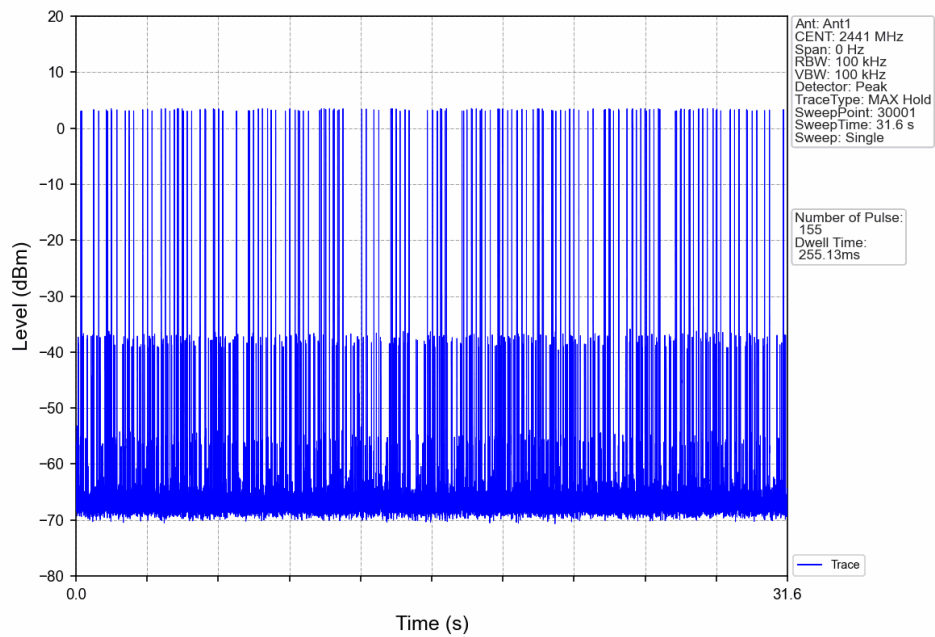


FCCID: 2BCUE-P8GLOBAL

8DPSK 3DH3 HOPP Ant1 NTN

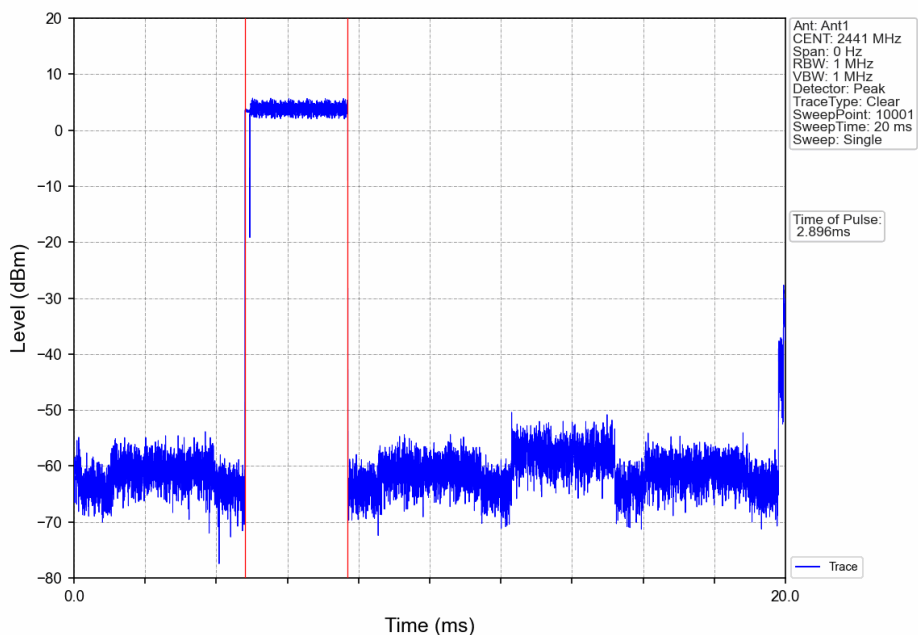


8DPSK_3DH3_HOPP_Ant1 NTN

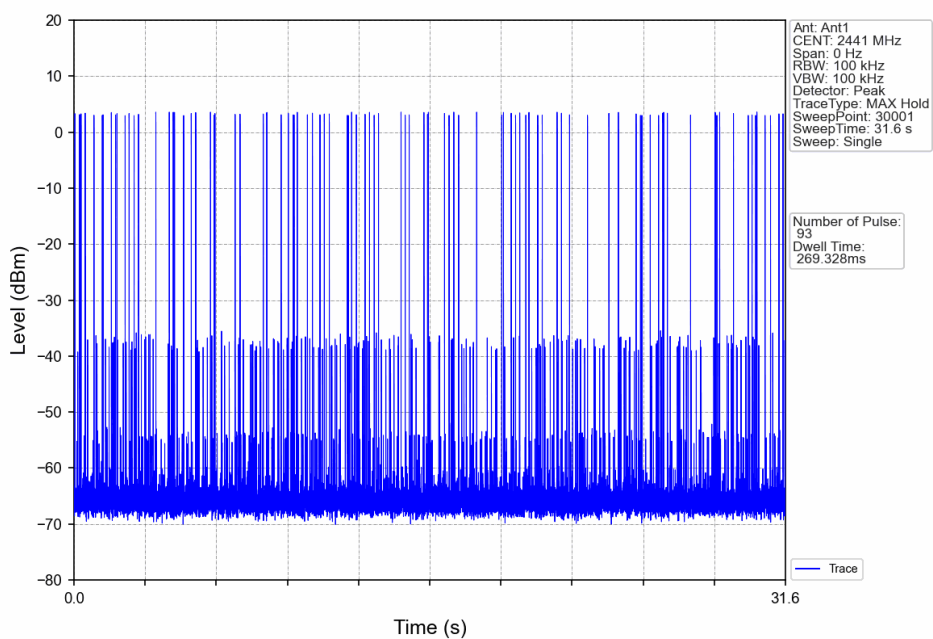


FCCID: 2BCUE-P8GLOBAL

8DPSK 3DH5 HOPP Ant1 NTV



8DPSK 3DH5 HOPP Ant1 NTV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	3.67
		2441	DH5	1	3.83
		2480	DH5	1	4.36
Pi/4DQPSK	SISO	2402	2DH5	1	3.46
		2441	2DH5	1	3.72
		2480	2DH5	1	3.98
8DPSK	SISO	2402	3DH5	1	3.07
		2441	3DH5	1	3.87
		2480	3DH5	1	3.69

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.

6.1.2 CSE

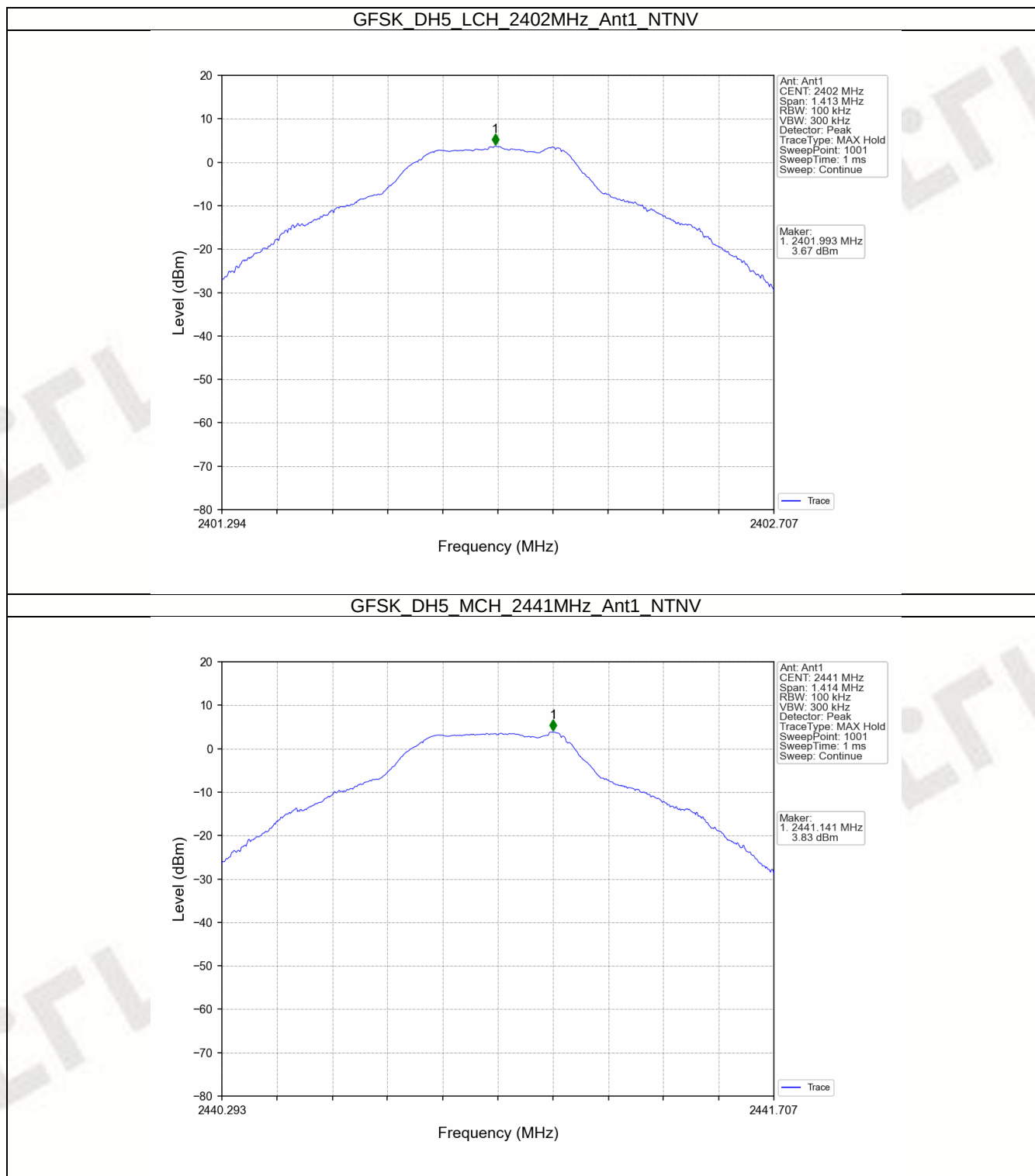
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	4.36	-15.64	Pass
		2441	DH5	1	4.36	-15.64	Pass
		2480	DH5	1	4.36	-15.64	Pass
		HOPP	DH5	1	4.36	-15.64	Pass
					4.36	-15.64	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	3.98	-16.02	Pass
		2441	2DH5	1	3.98	-16.02	Pass
		2480	2DH5	1	3.98	-16.02	Pass
		HOPP	2DH5	1	3.98	-16.02	Pass
					3.98	-16.02	Pass
8DPSK	SISO	2402	3DH5	1	3.87	-16.13	Pass
		2441	3DH5	1	3.87	-16.13	Pass
		2480	3DH5	1	3.87	-16.13	Pass
		HOPP	3DH5	1	3.87	-16.13	Pass
					3.87	-16.13	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.

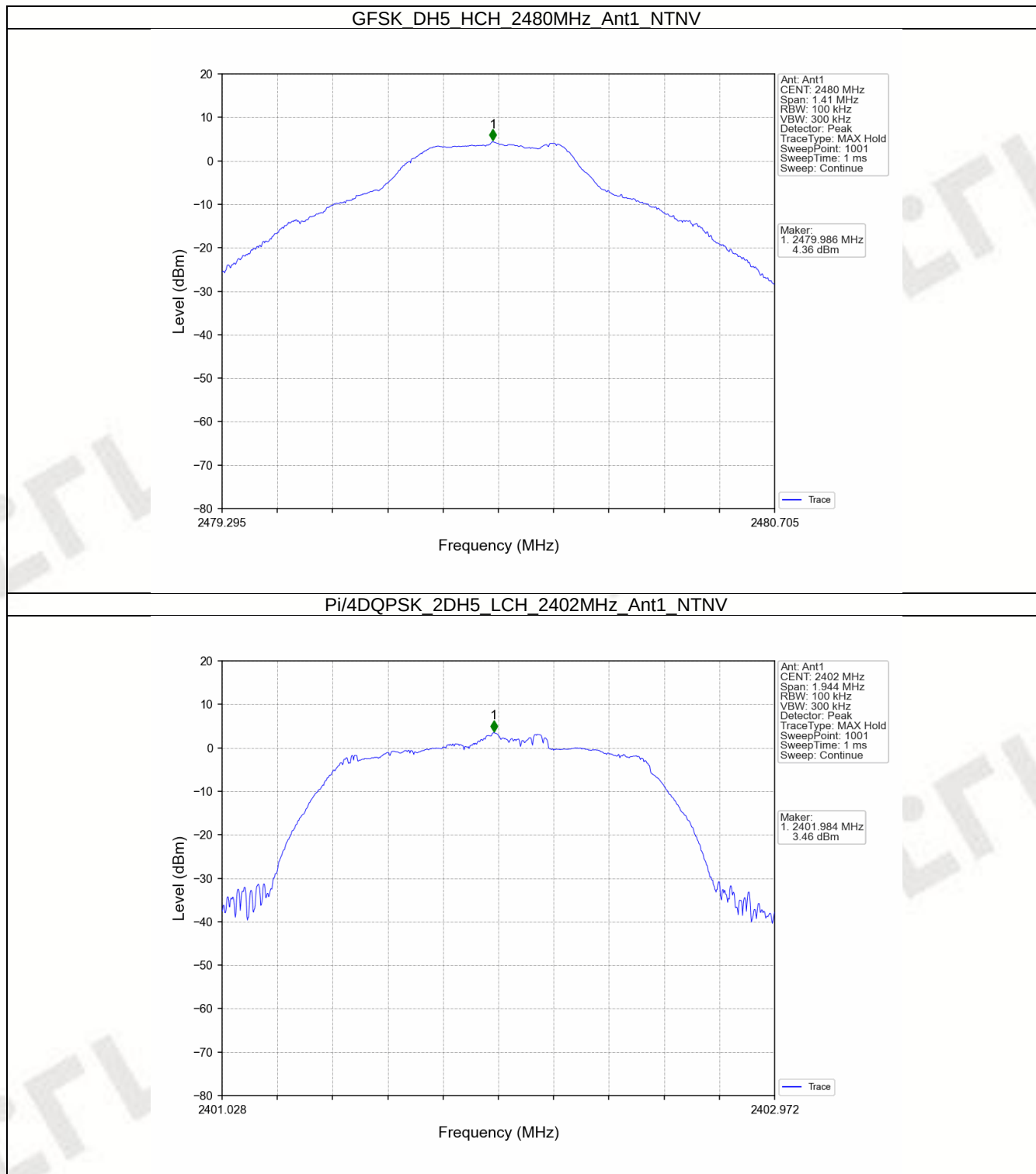
FCCID: 2BCUE-P8GLOBAL

6.2 Test Graph

6.2.1 Ref

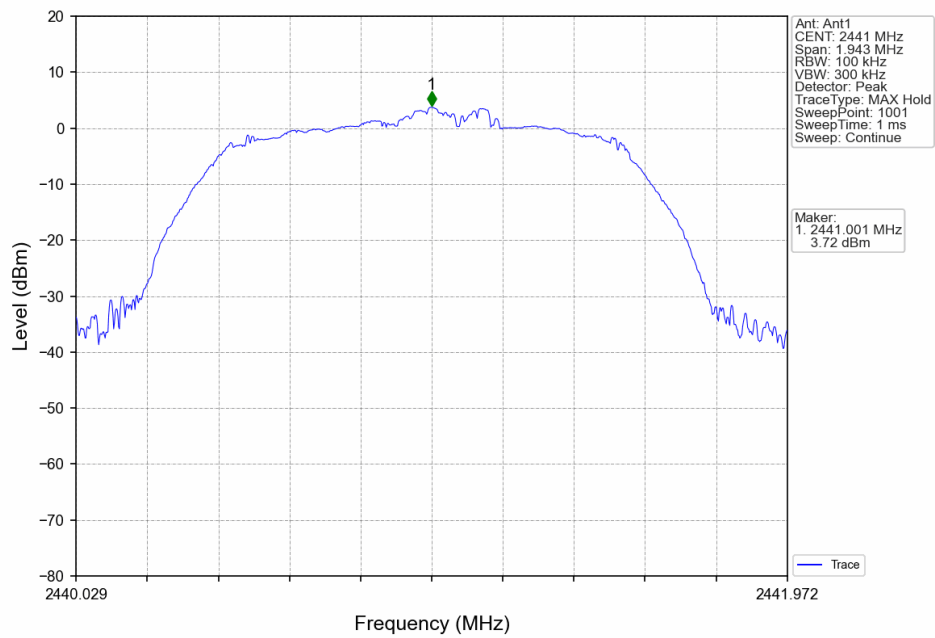


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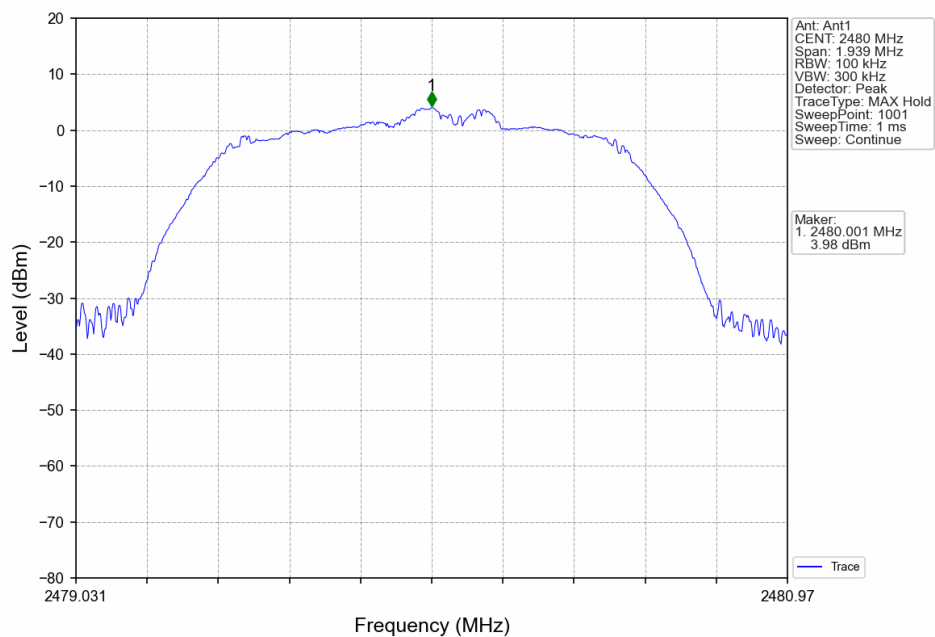


FCCID: 2BCUE-P8GLOBAL

Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTN

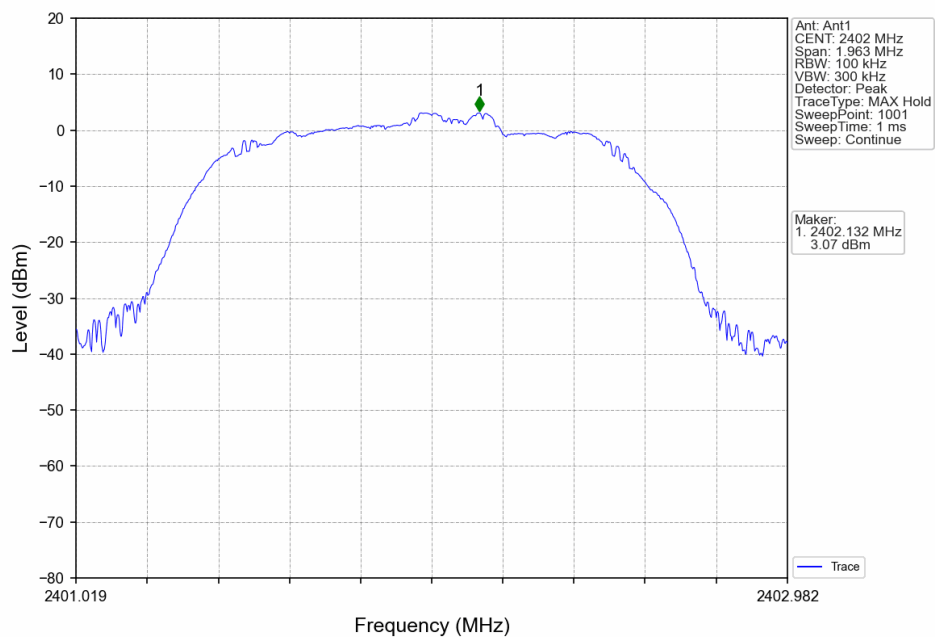


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1 NTN

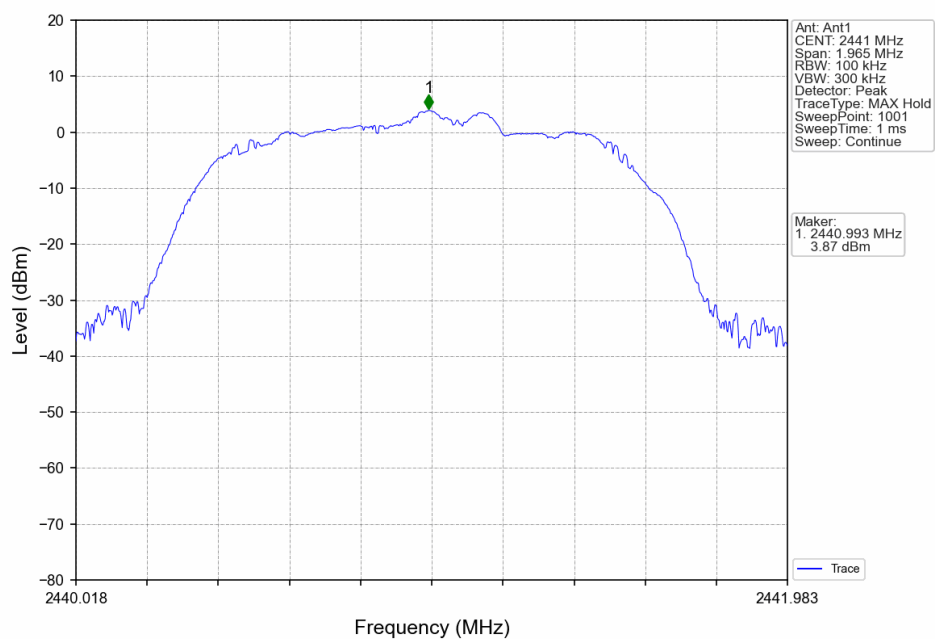


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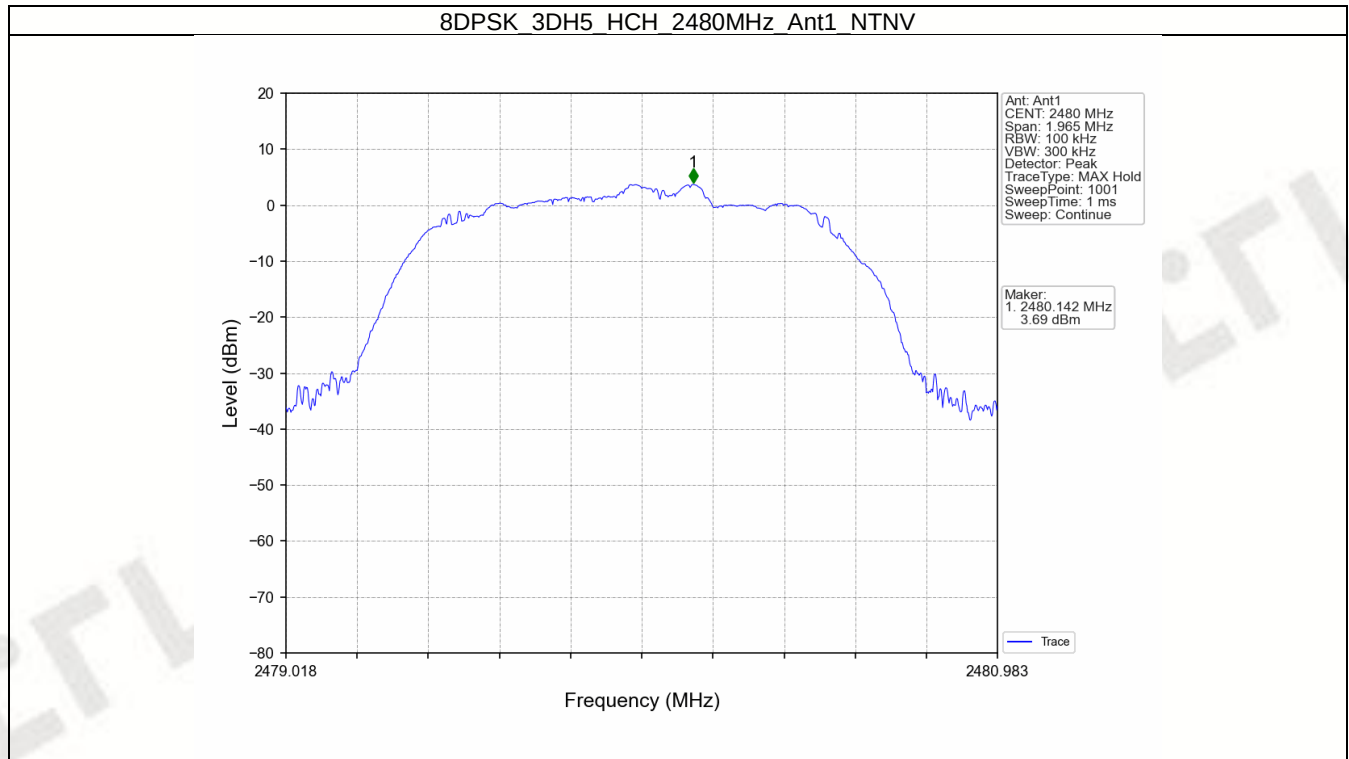
8DPSK 3DH5 LCH 2402MHz Ant1 NTN



8DPSK 3DH5 MCH 2441MHz Ant1 NTN

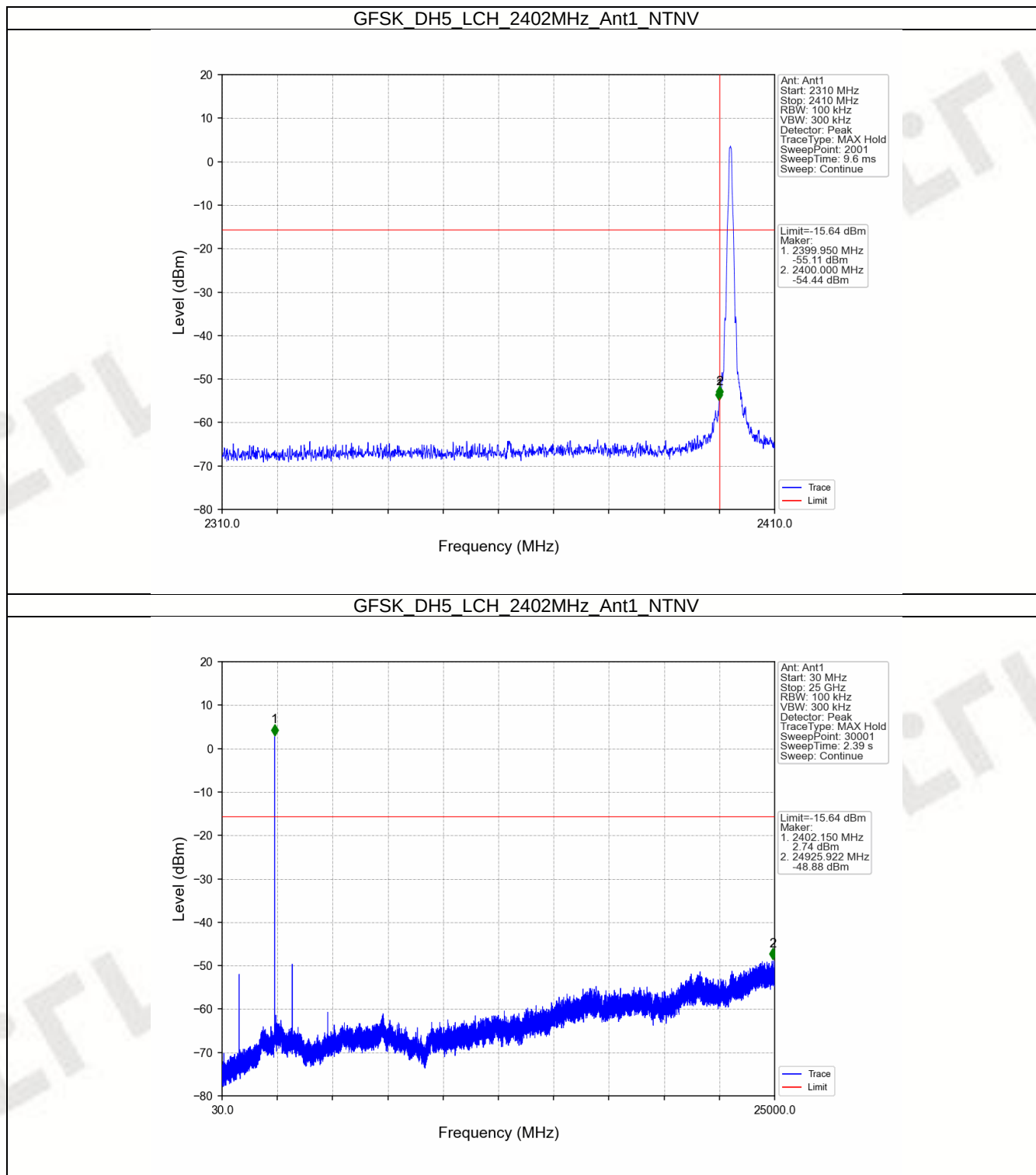


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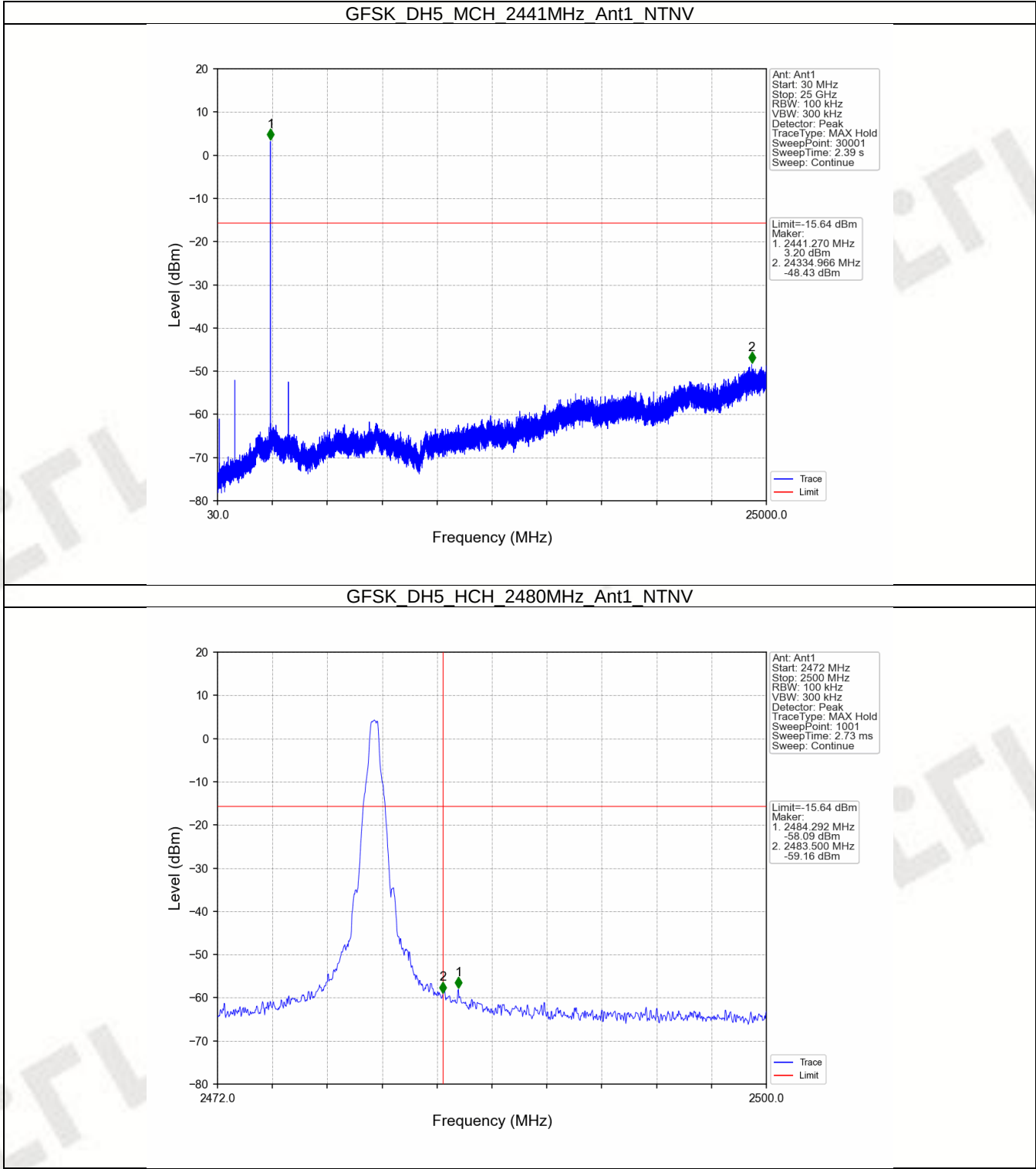


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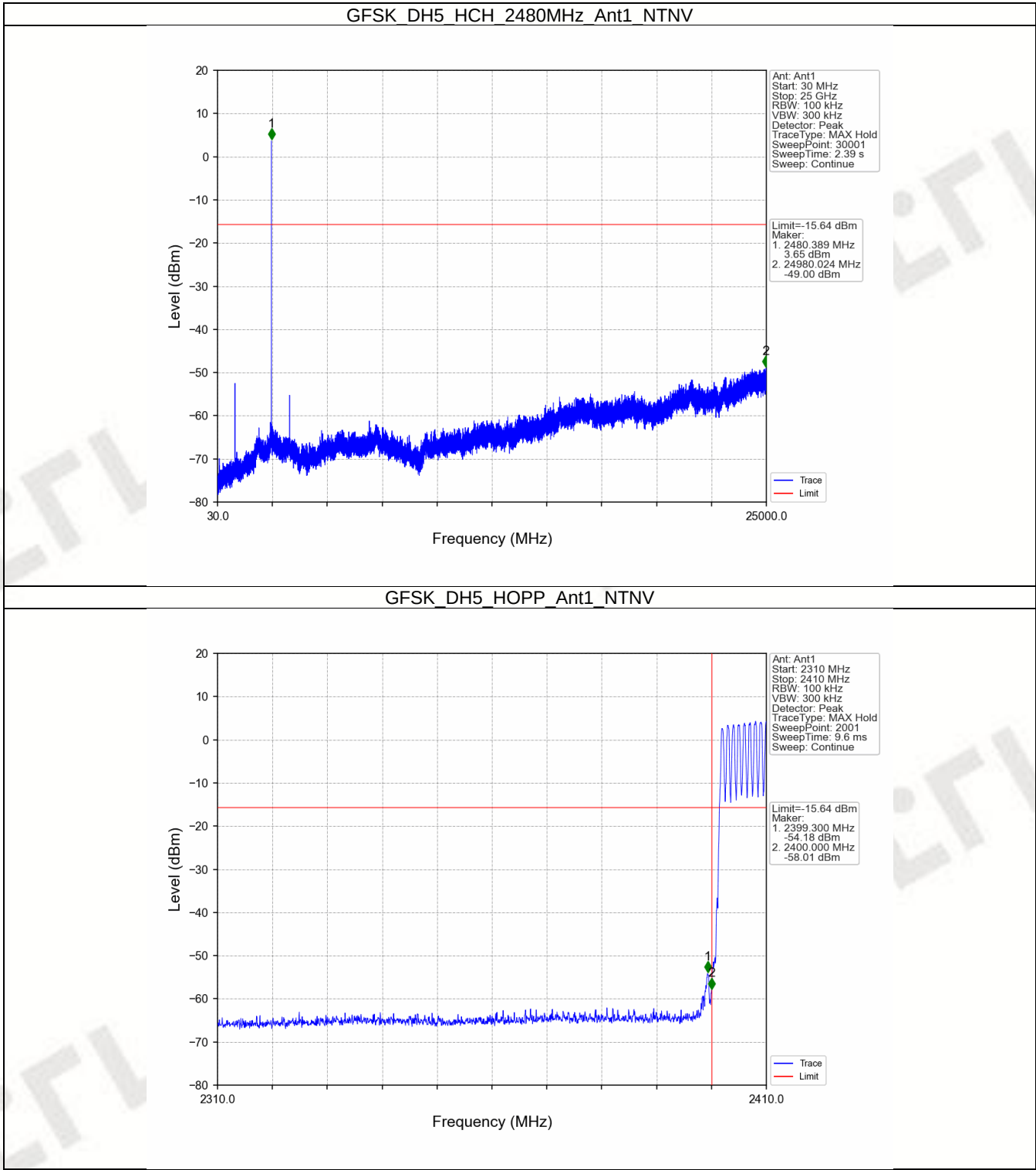
6.2.2 CSE



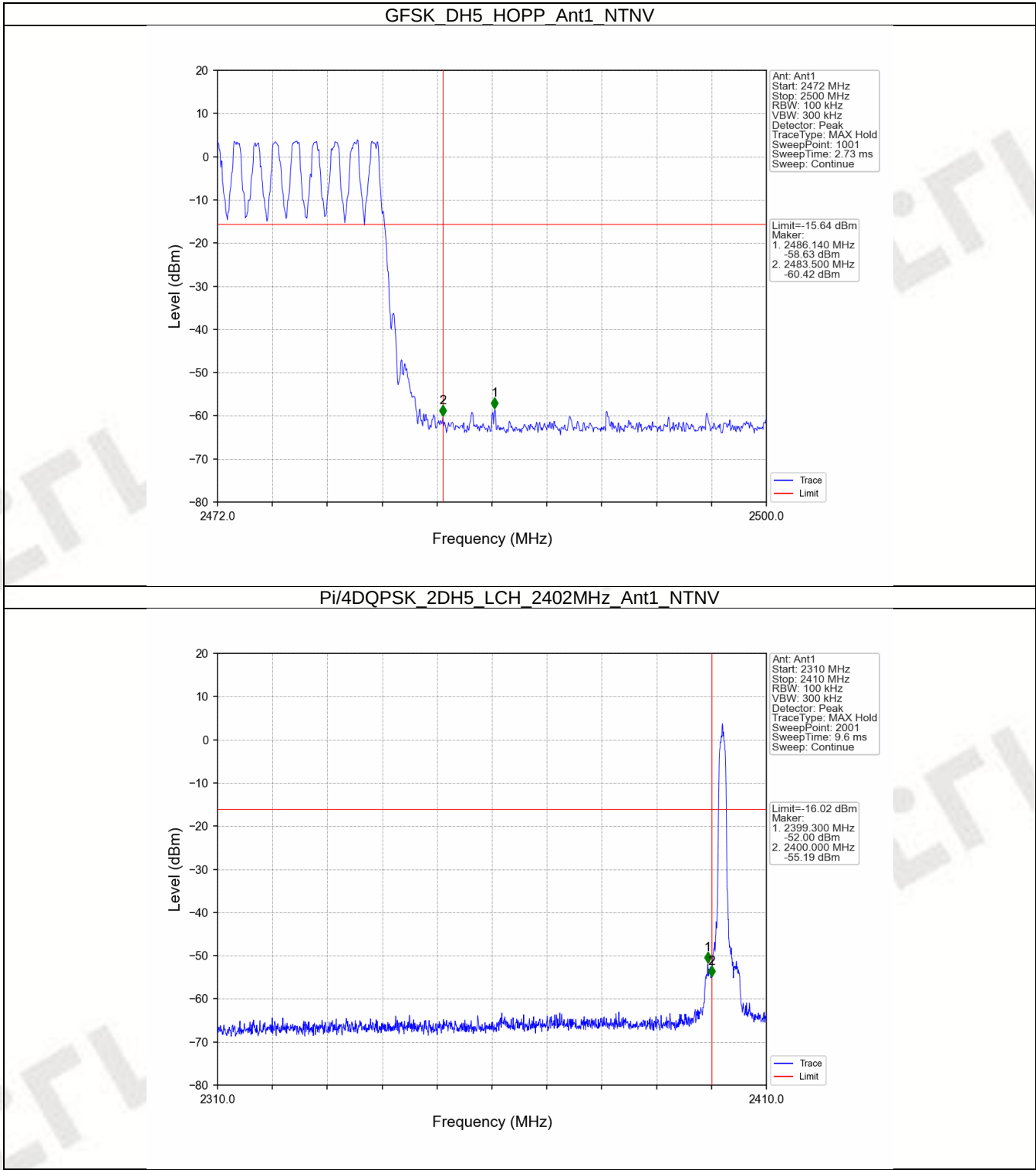
FCCID: 2BCUE-P8GLOBAL



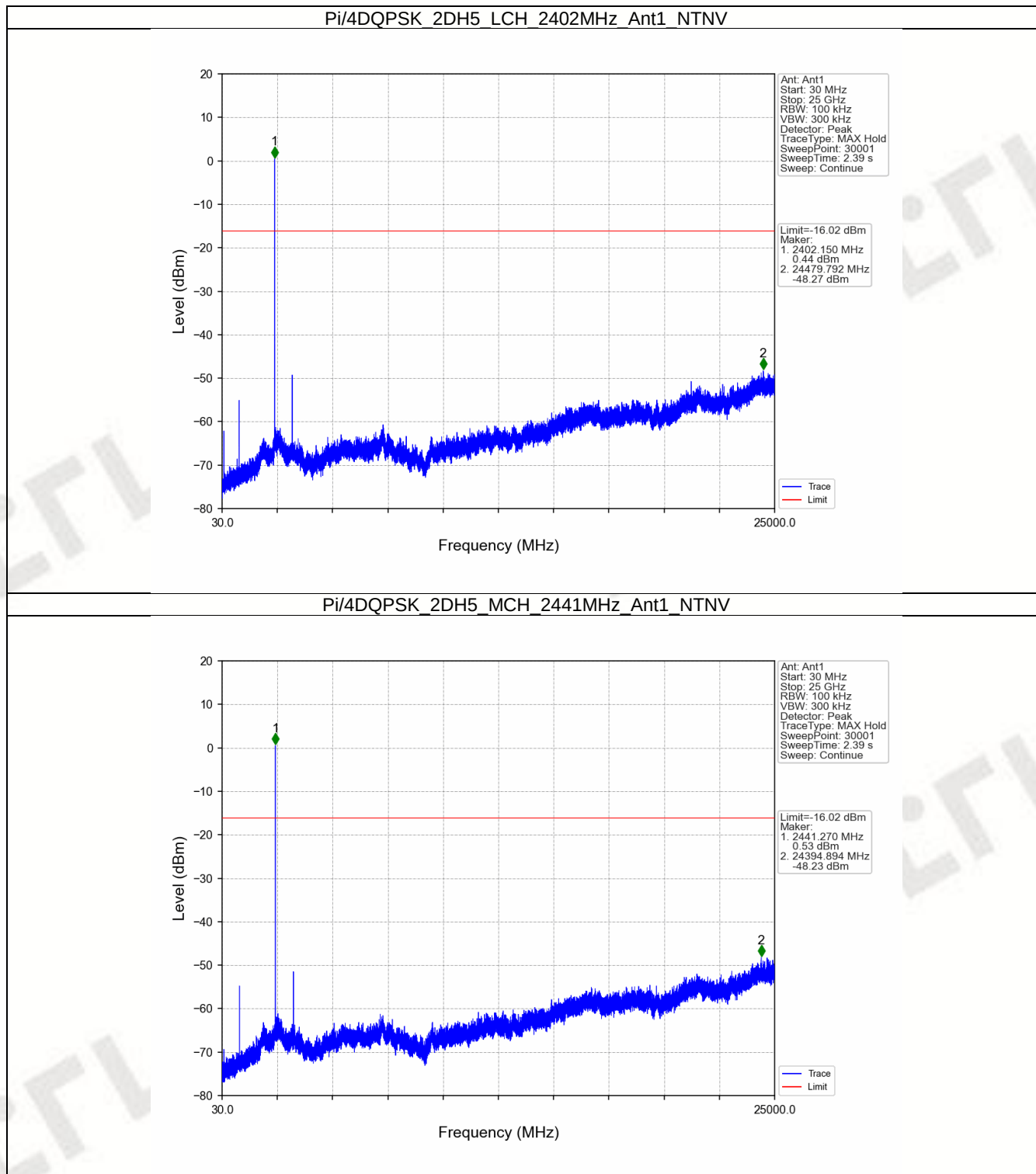
FCCID: 2BCUE-P8GLOBAL



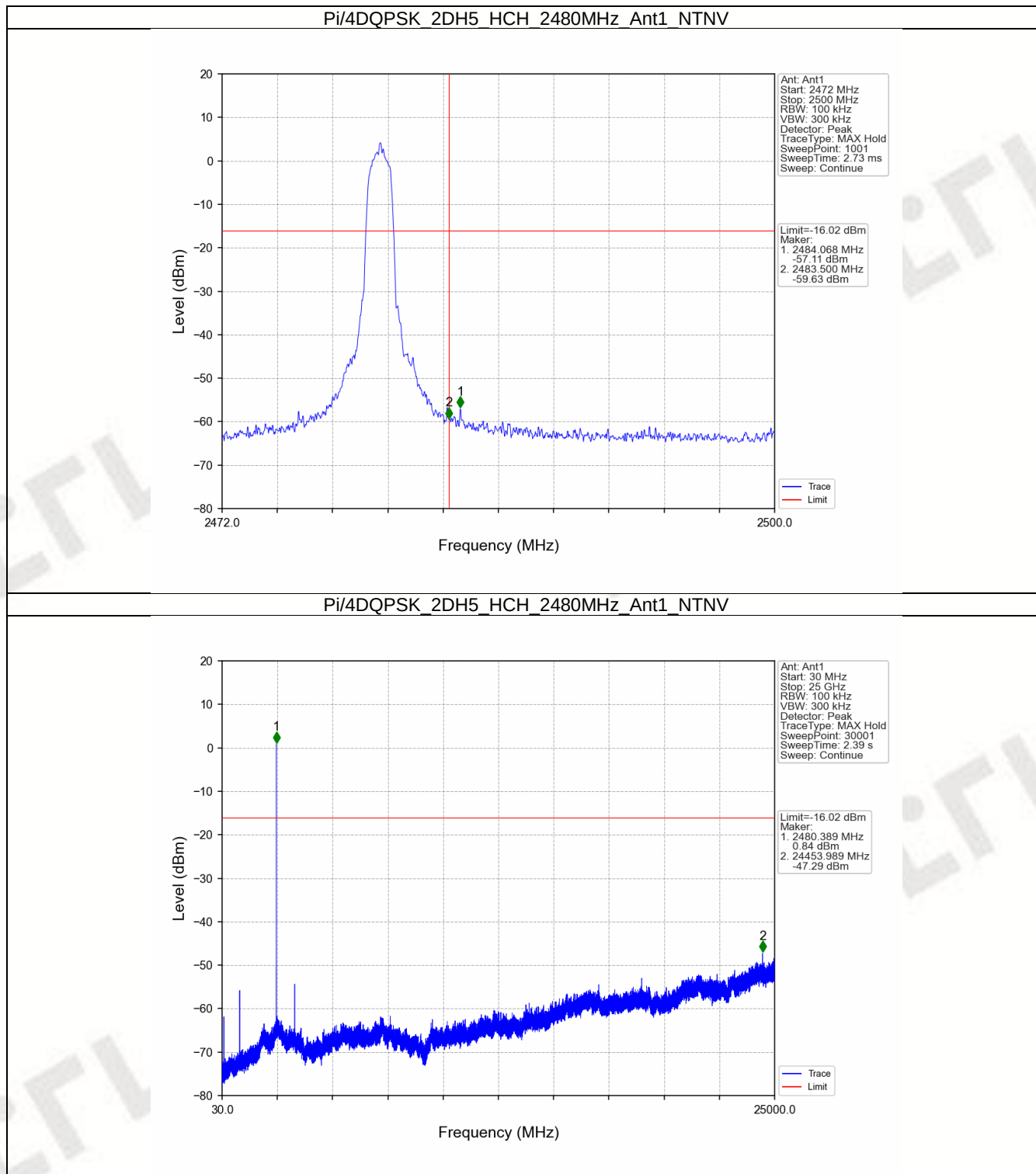
FCCID: 2BCUE-P8GLOBAL



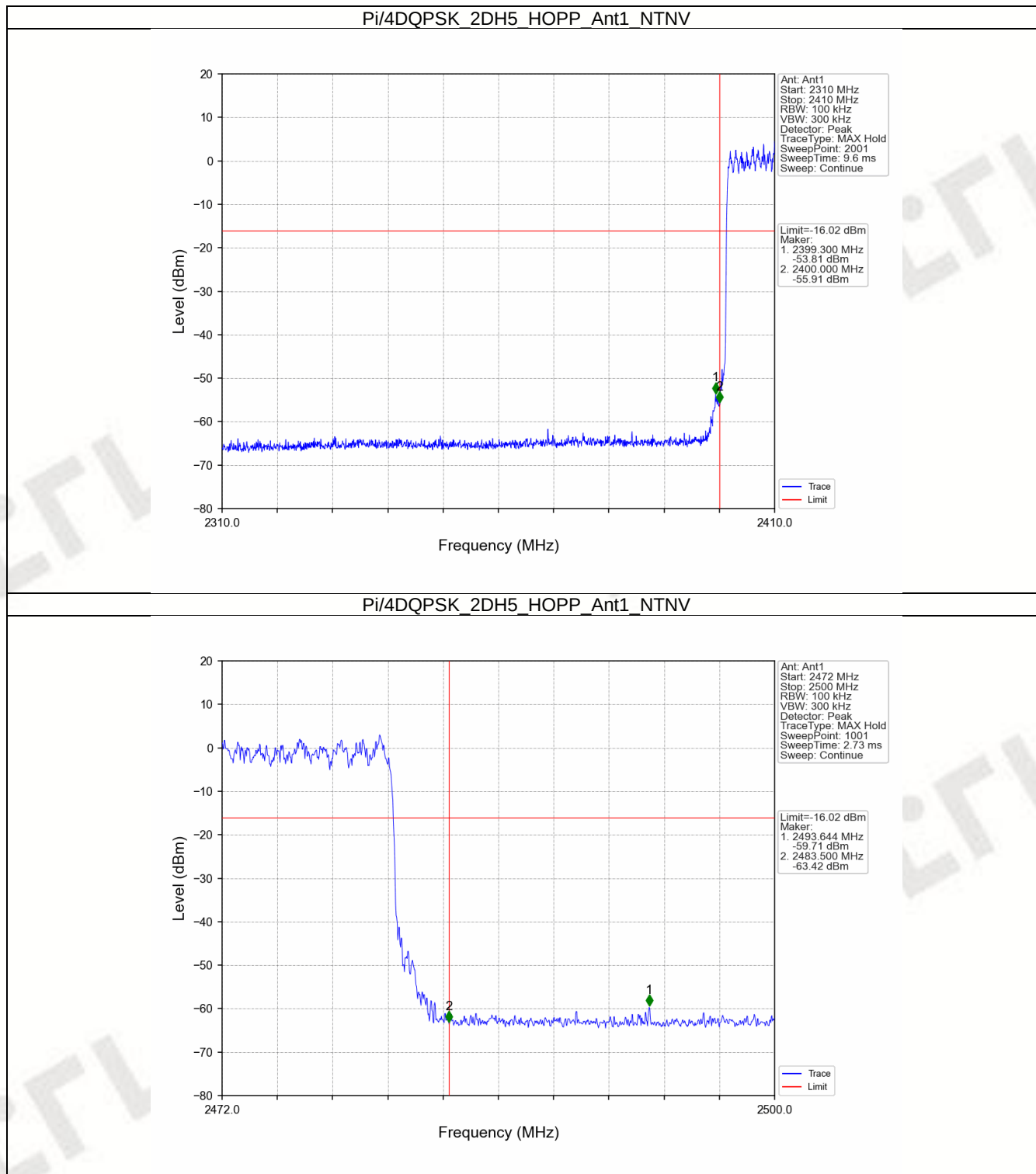
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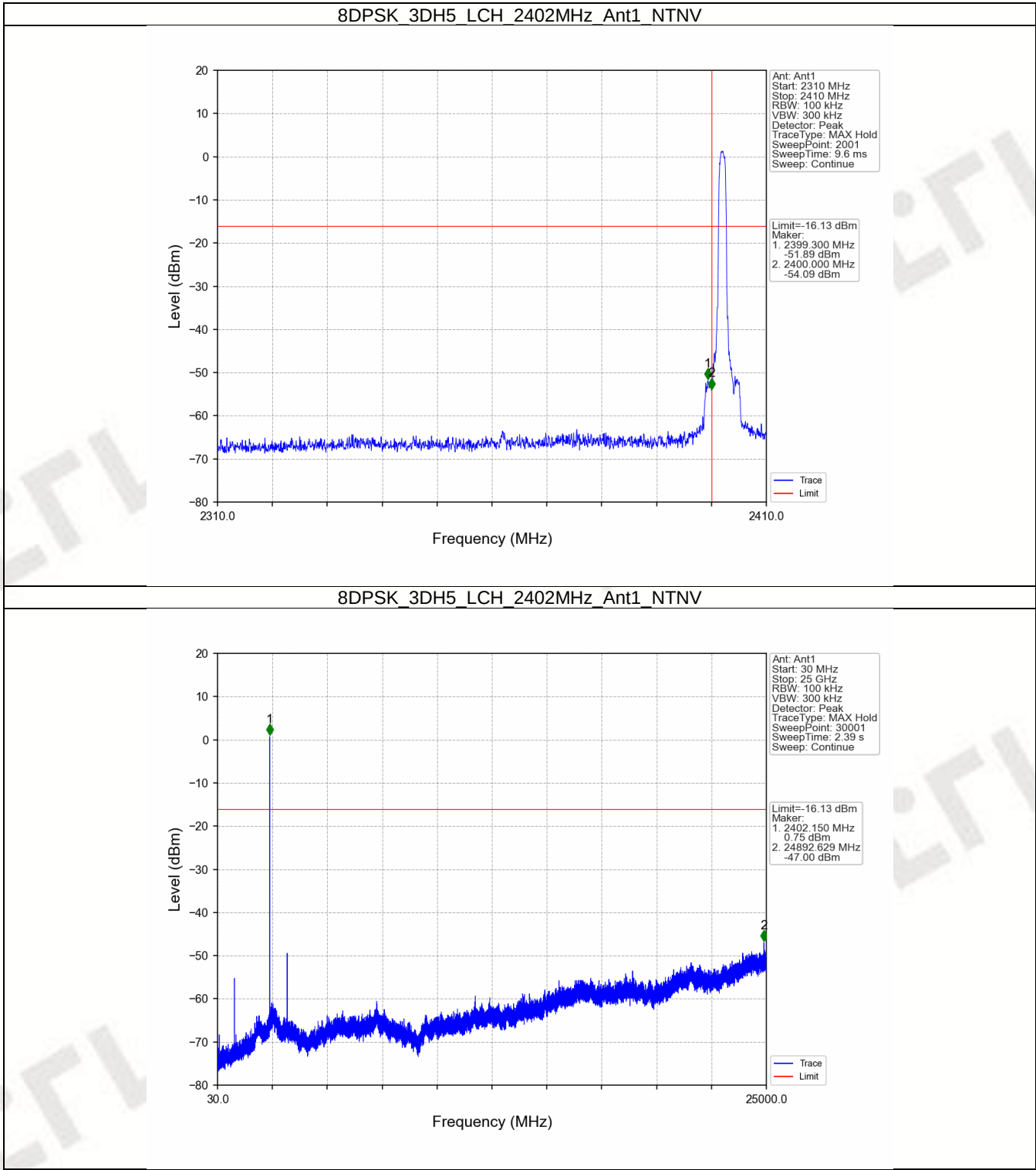
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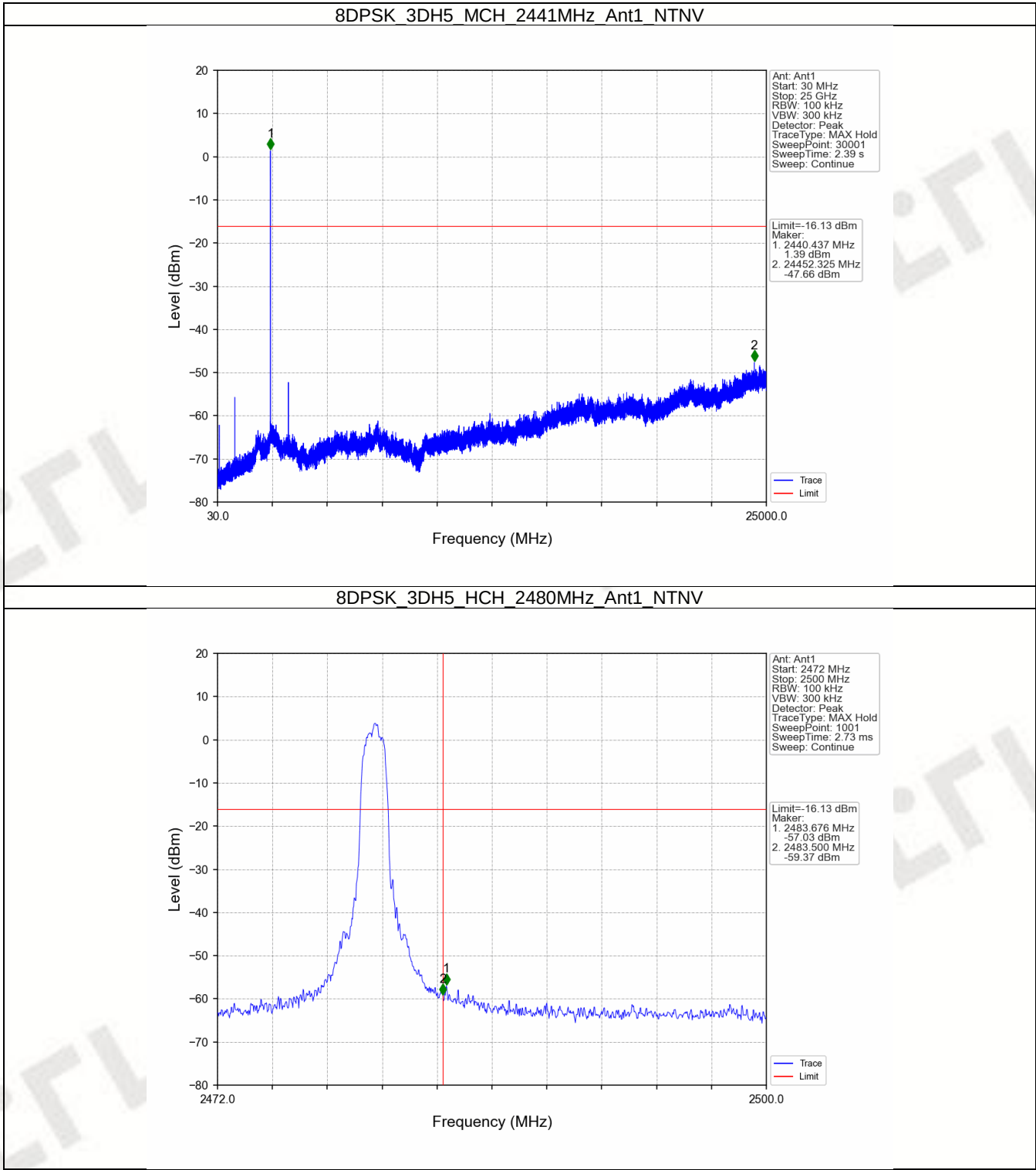
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FCCID: 2BCUE-P8GLOBAL

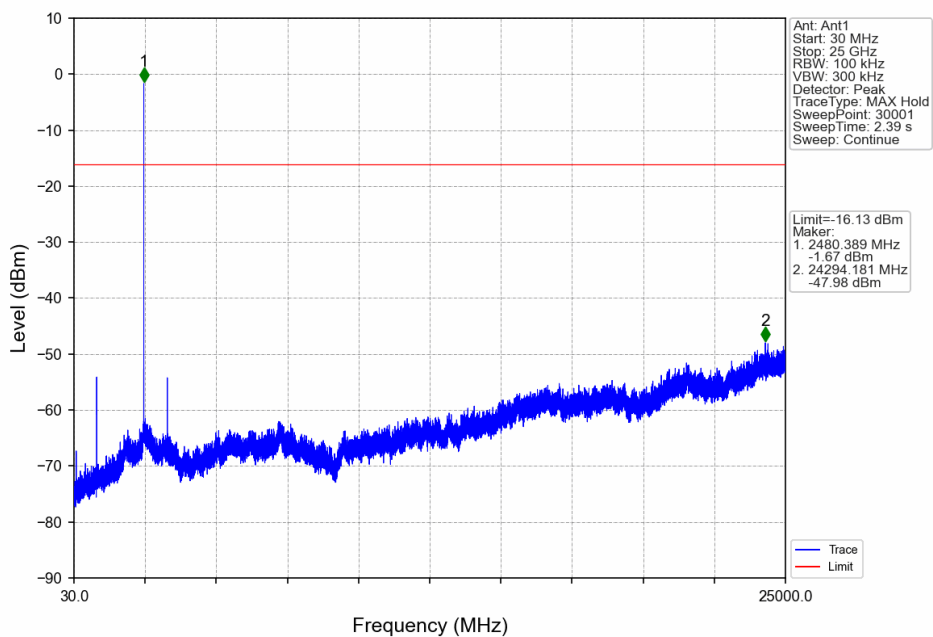


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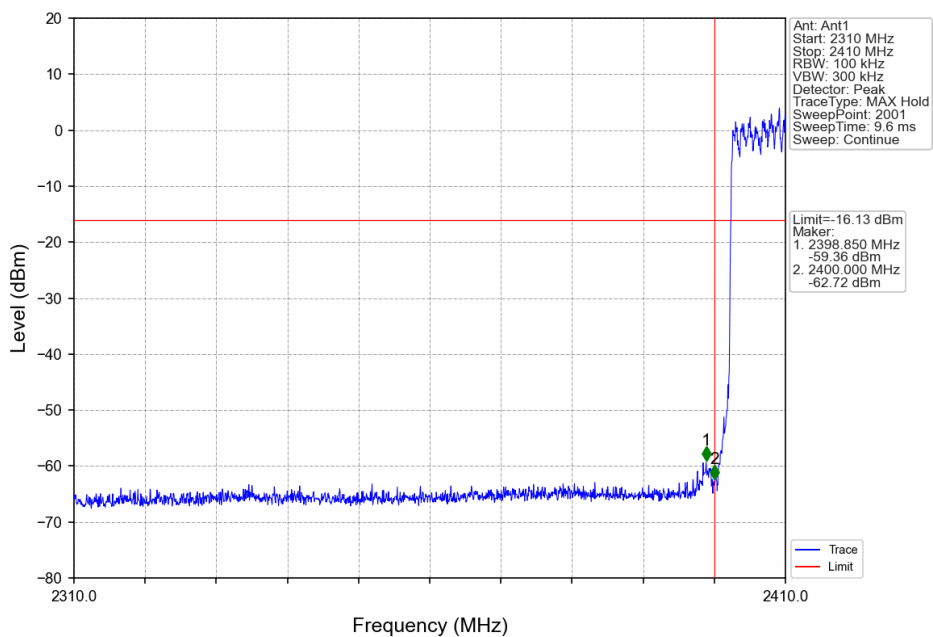


FCCID: 2BCUE-P8GLOBAL

8DPSK 3DH5 HCH 2480MHz Ant1 NTN



8DPSK 3DH5 HOPP Ant1 NTN



FCCID: 2BCUE-P8GLOBAL

