

10 Appendix

1. Bandwidth

1.1 Test Result

1.1.1 OBW(Report only)

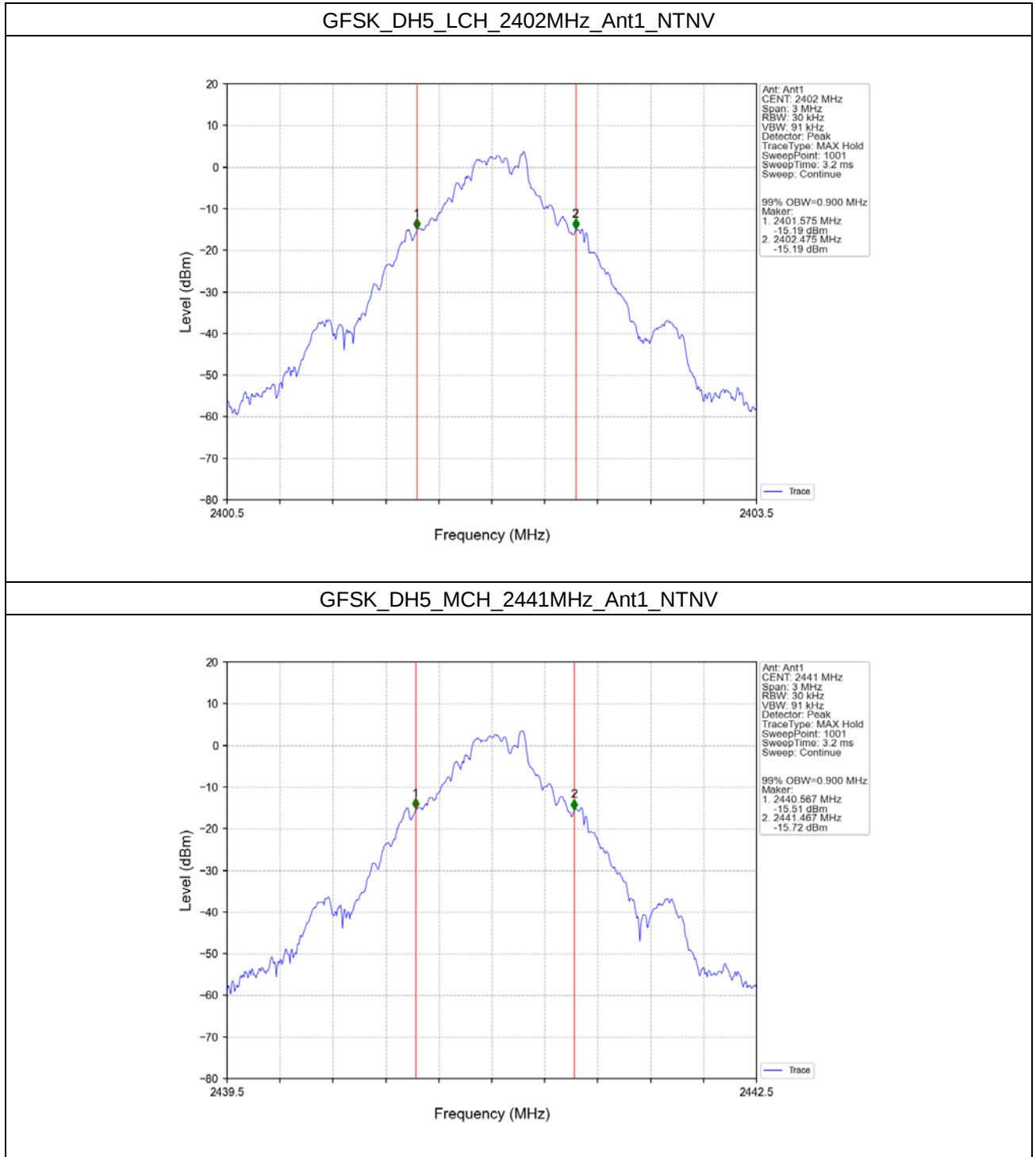
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.900	/	Pass
		2441	DH5	1	0.900	/	Pass
		2480	DH5	1	0.902	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.193	/	Pass
		2441	2DH5	1	1.195	/	Pass
		2480	2DH5	1	1.196	/	Pass
8DPSK	SISO	2402	3DH5	1	1.203	/	Pass
		2441	3DH5	1	1.201	/	Pass
		2480	3DH5	1	1.198	/	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	1.015	/	Pass
		2441	DH5	1	1.027	/	Pass
		2480	DH5	1	1.012	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.357	/	Pass
		2441	2DH5	1	1.346	/	Pass
		2480	2DH5	1	1.348	/	Pass
8DPSK	SISO	2402	3DH5	1	1.326	/	Pass
		2441	3DH5	1	1.315	/	Pass
		2480	3DH5	1	1.317	/	Pass

1.2 Test Graph

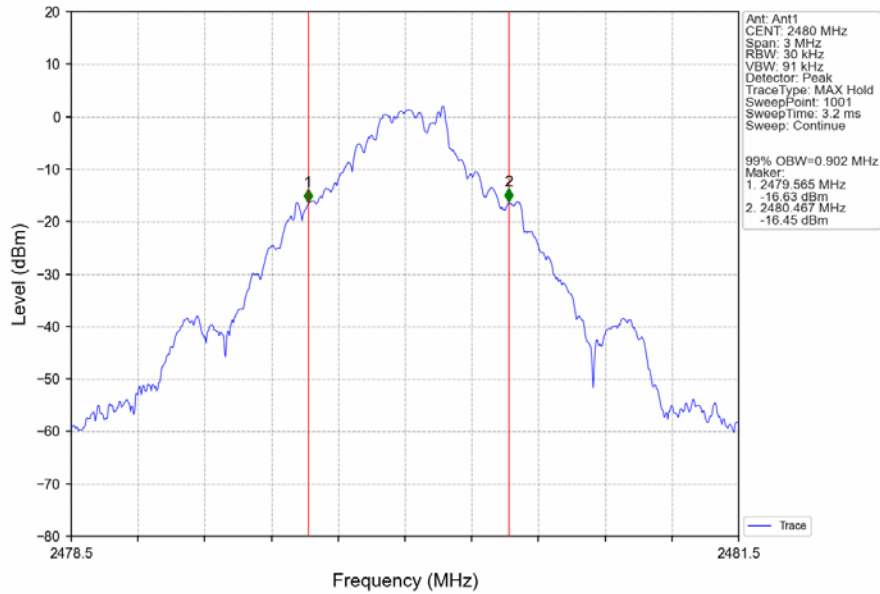
1.2.1 OBW



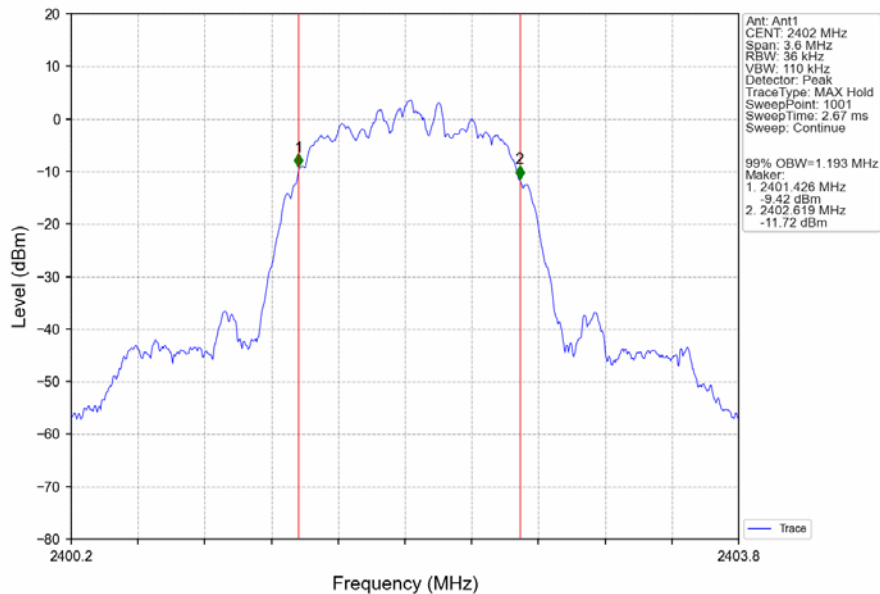
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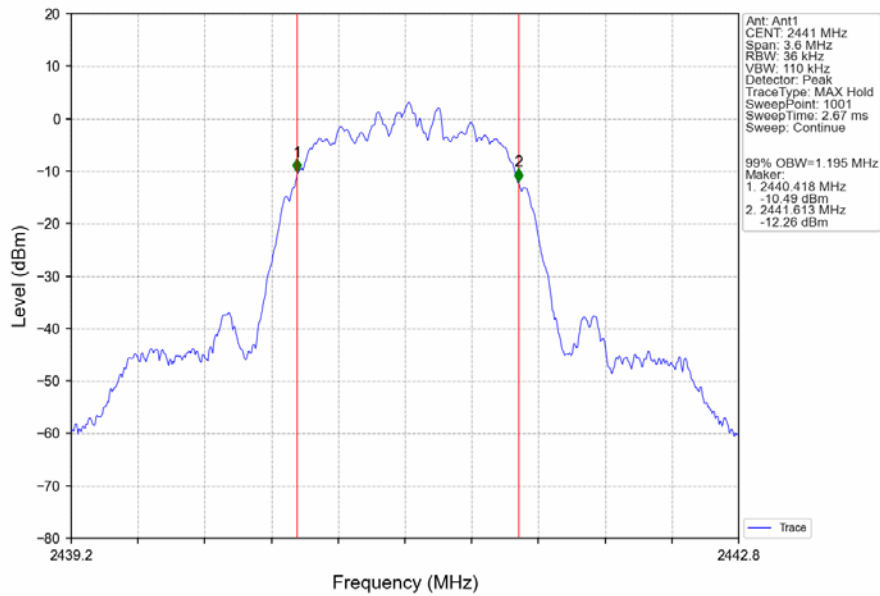
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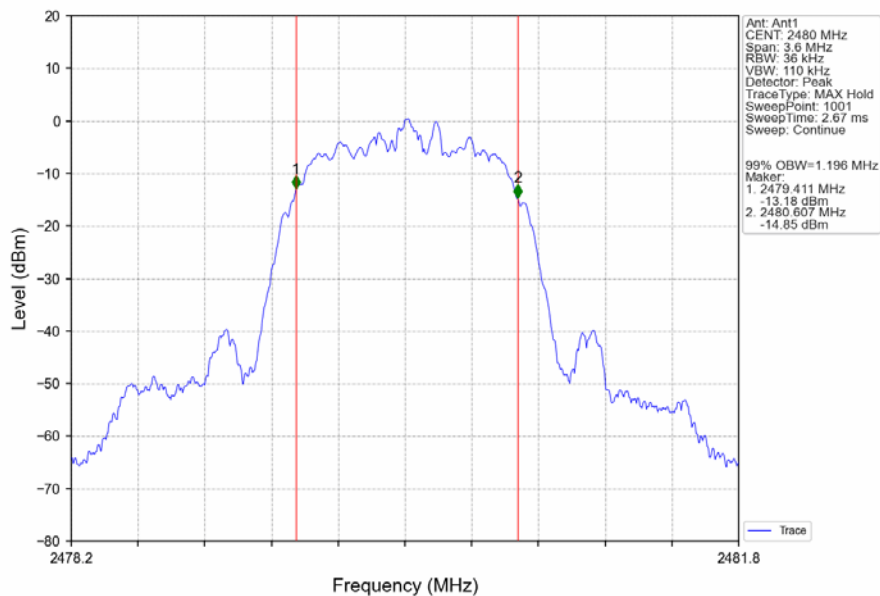
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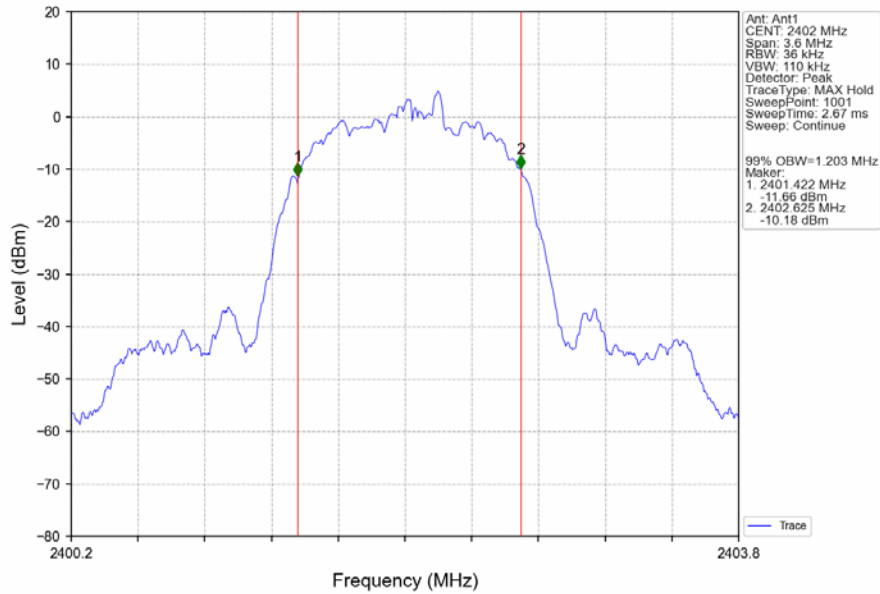
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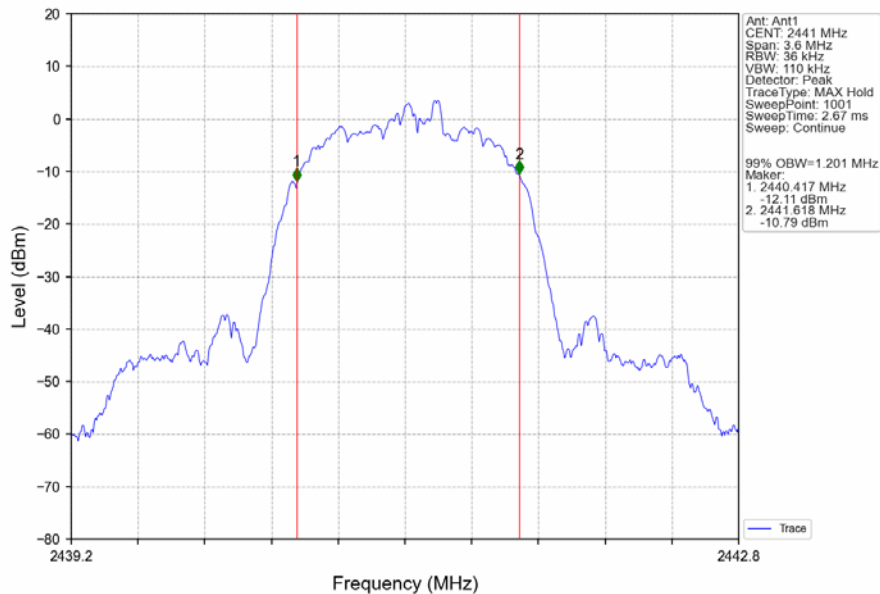
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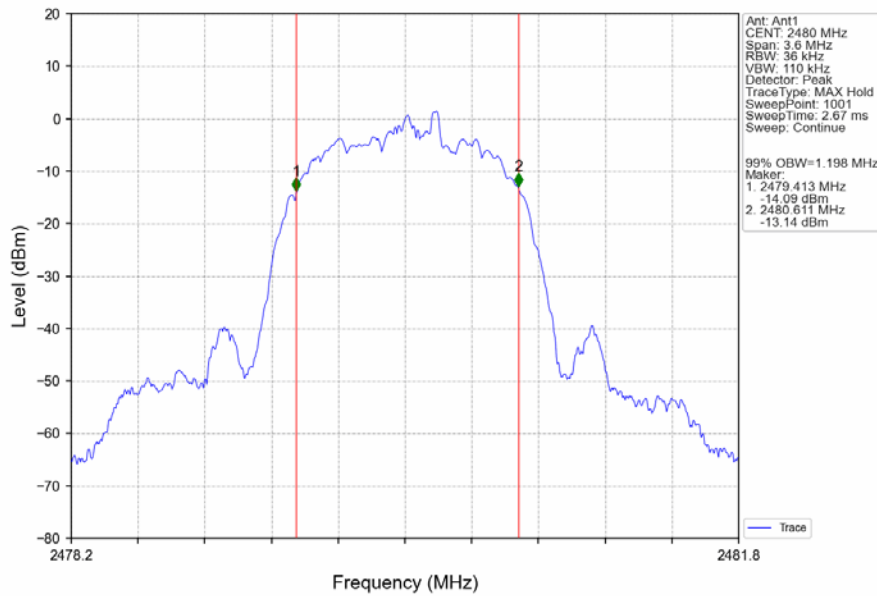
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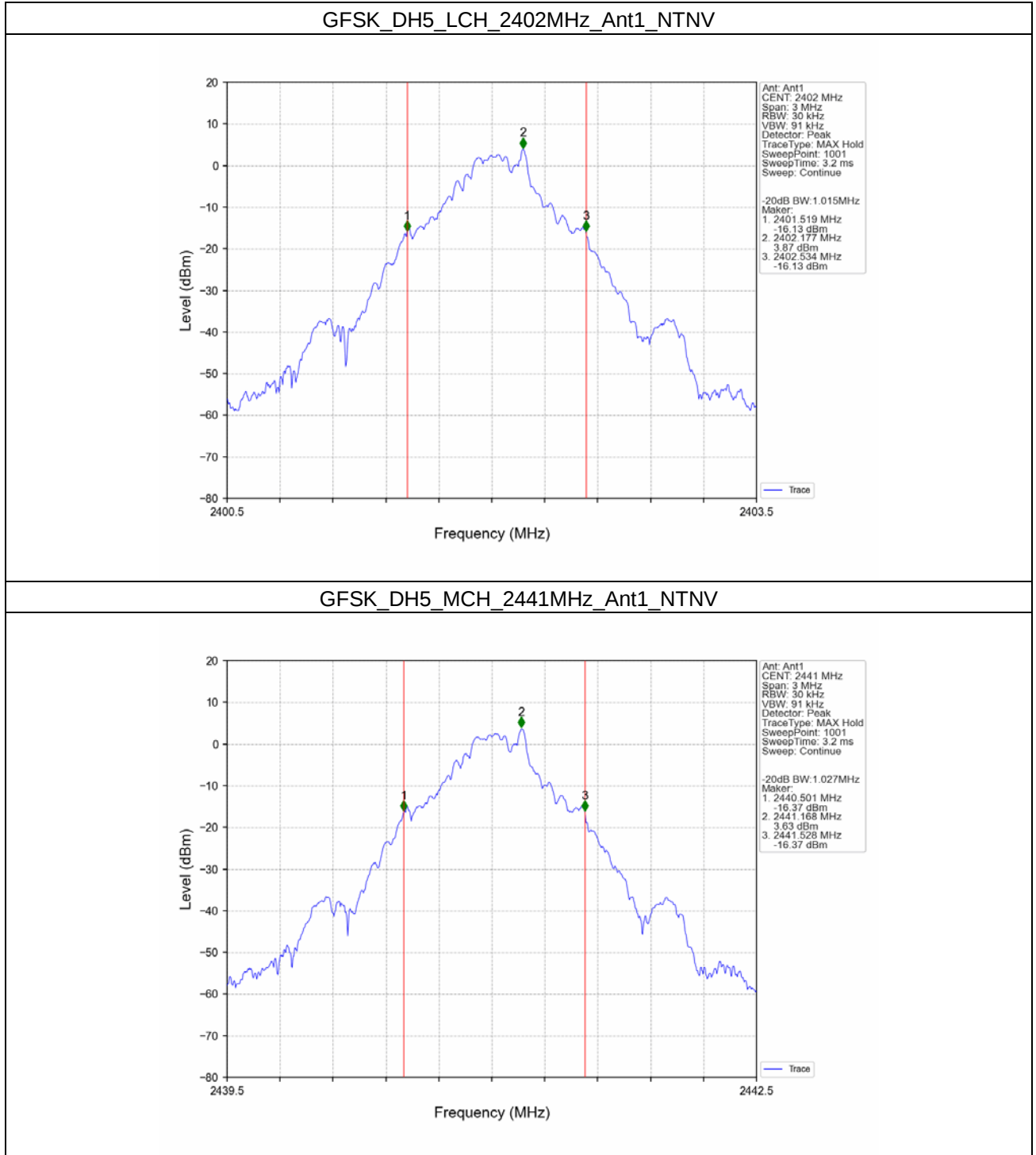
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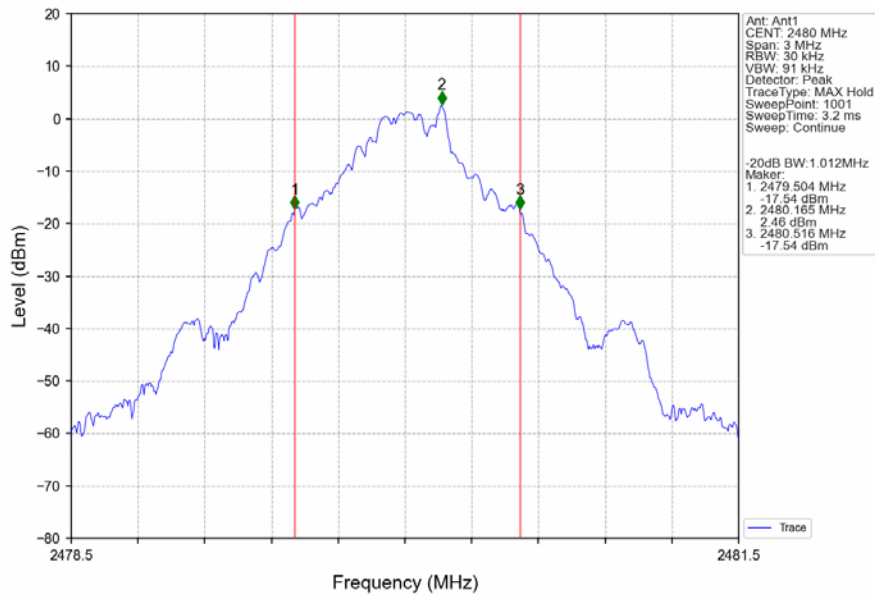
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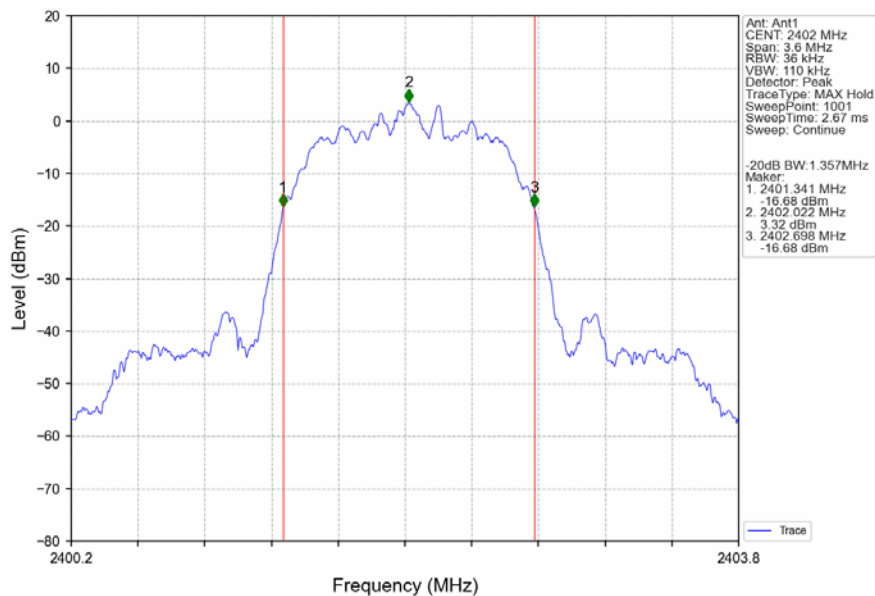
1.2.2 20dB BW



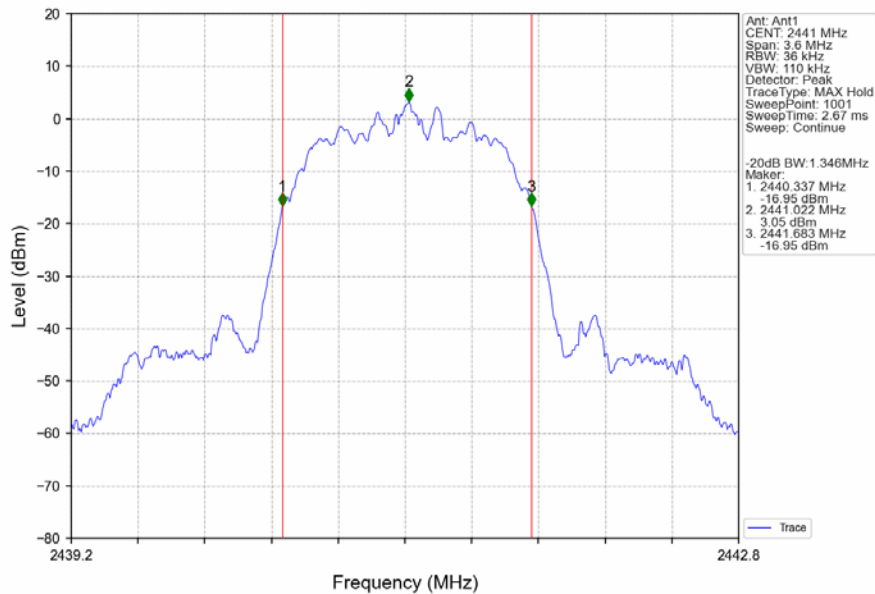
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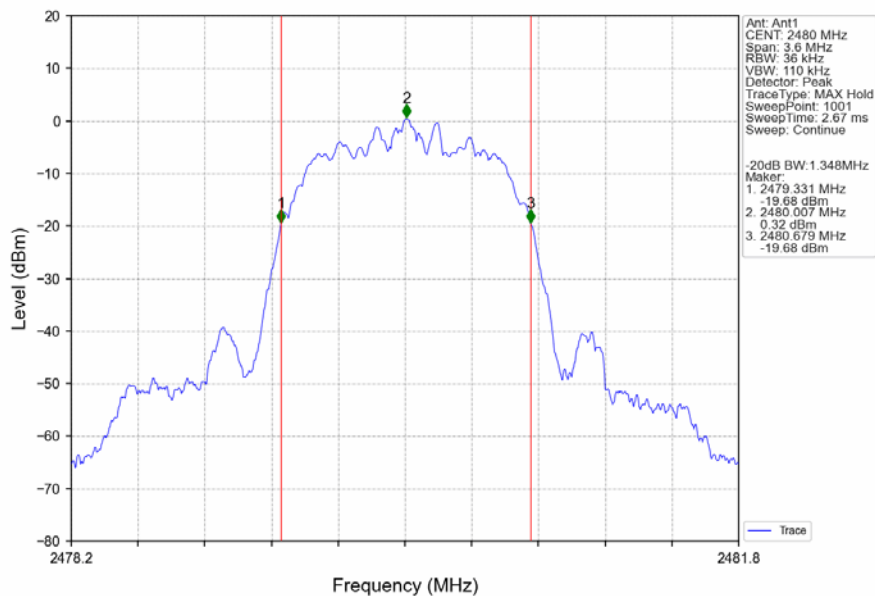
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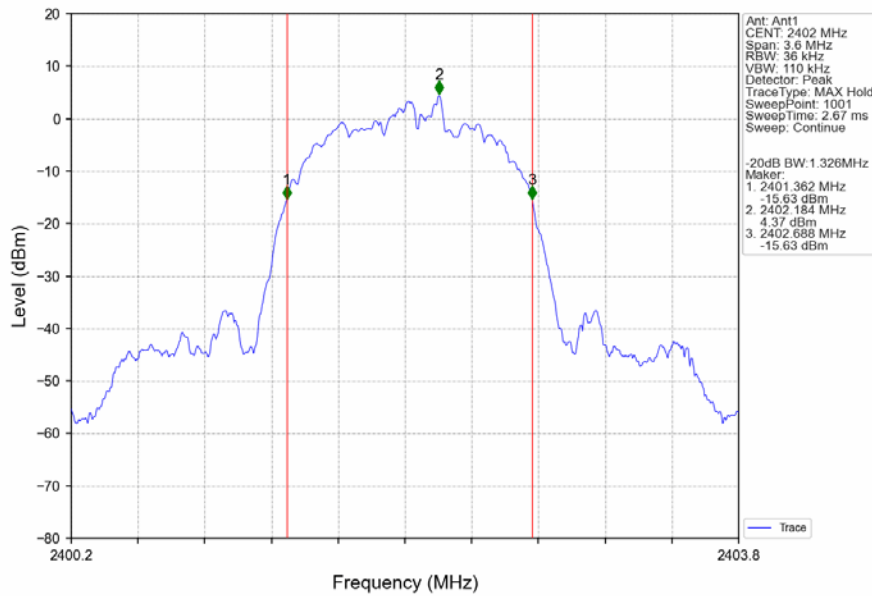
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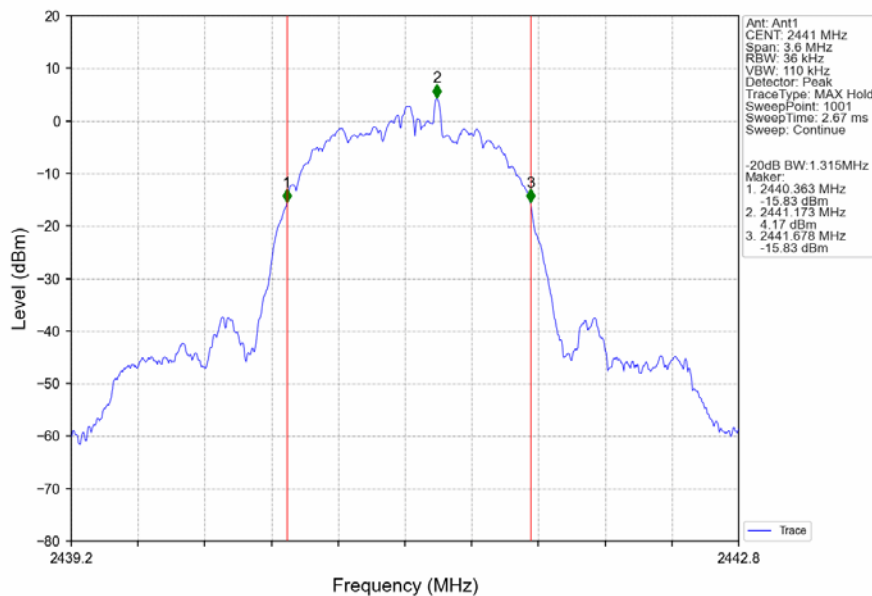
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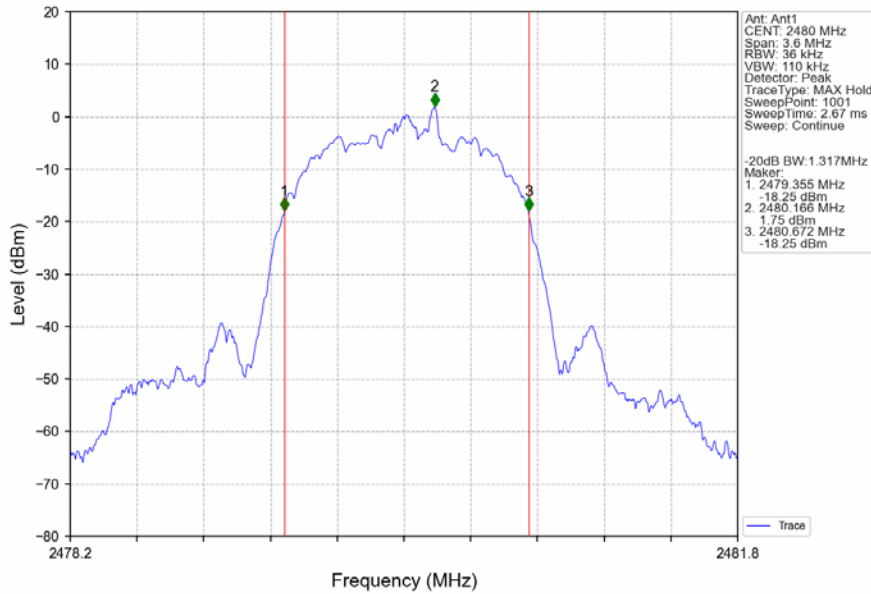
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	5.28	≤ 20.97	Pass
		2441	DH5	5.12	≤ 20.97	Pass
		2480	DH5	3.98	≤ 20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	7.83	≤ 20.97	Pass
		2441	2DH5	7.28	≤ 20.97	Pass
		2480	2DH5	4.89	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	8.19	≤ 20.97	Pass
		2441	3DH5	7.61	≤ 20.97	Pass
		2480	3DH5	5.35	≤ 20.97	Pass

3. Carrier Frequency Separation

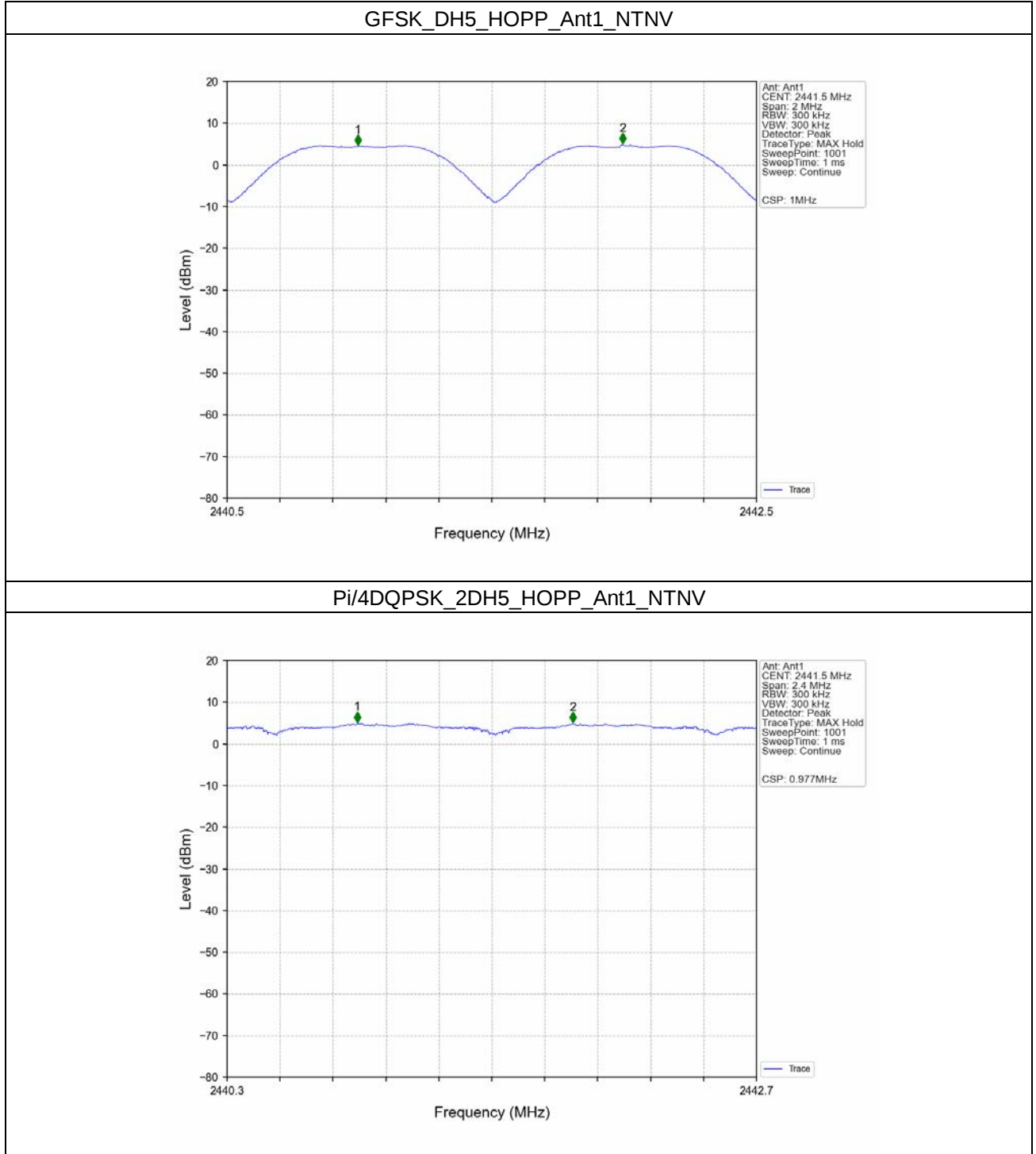
3.1 Test Result

3.1.1 Ant1

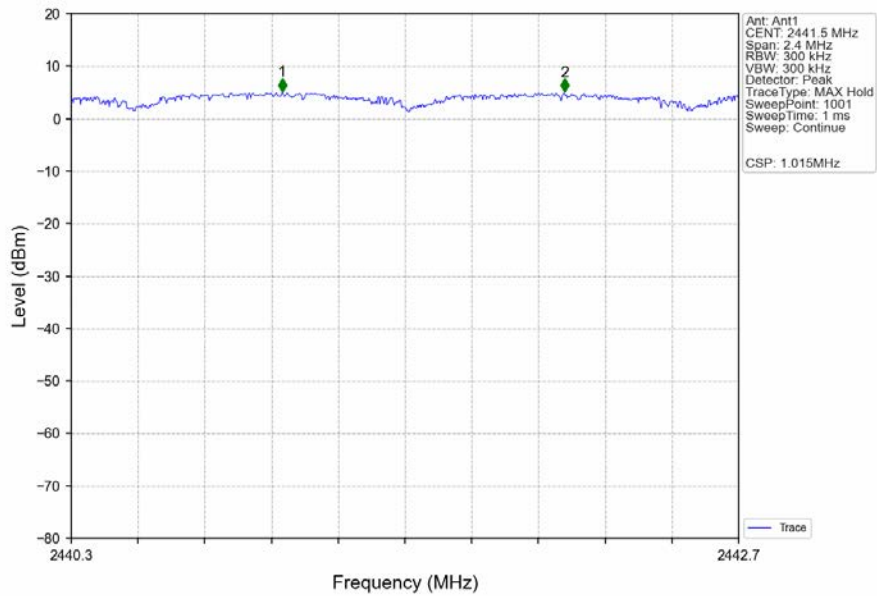
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	1.027	≥ 0.685	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.977	1.357	≥ 0.905	Pass
8DPSK	SISO	HOPP	3DH5	1.015	1.326	≥ 0.884	Pass

3.2 Test Graph

3.2.1 Ant1



8DPSK_3DH5_HOPP_Ant1_NTNV



4. Number of Hopping Frequencies

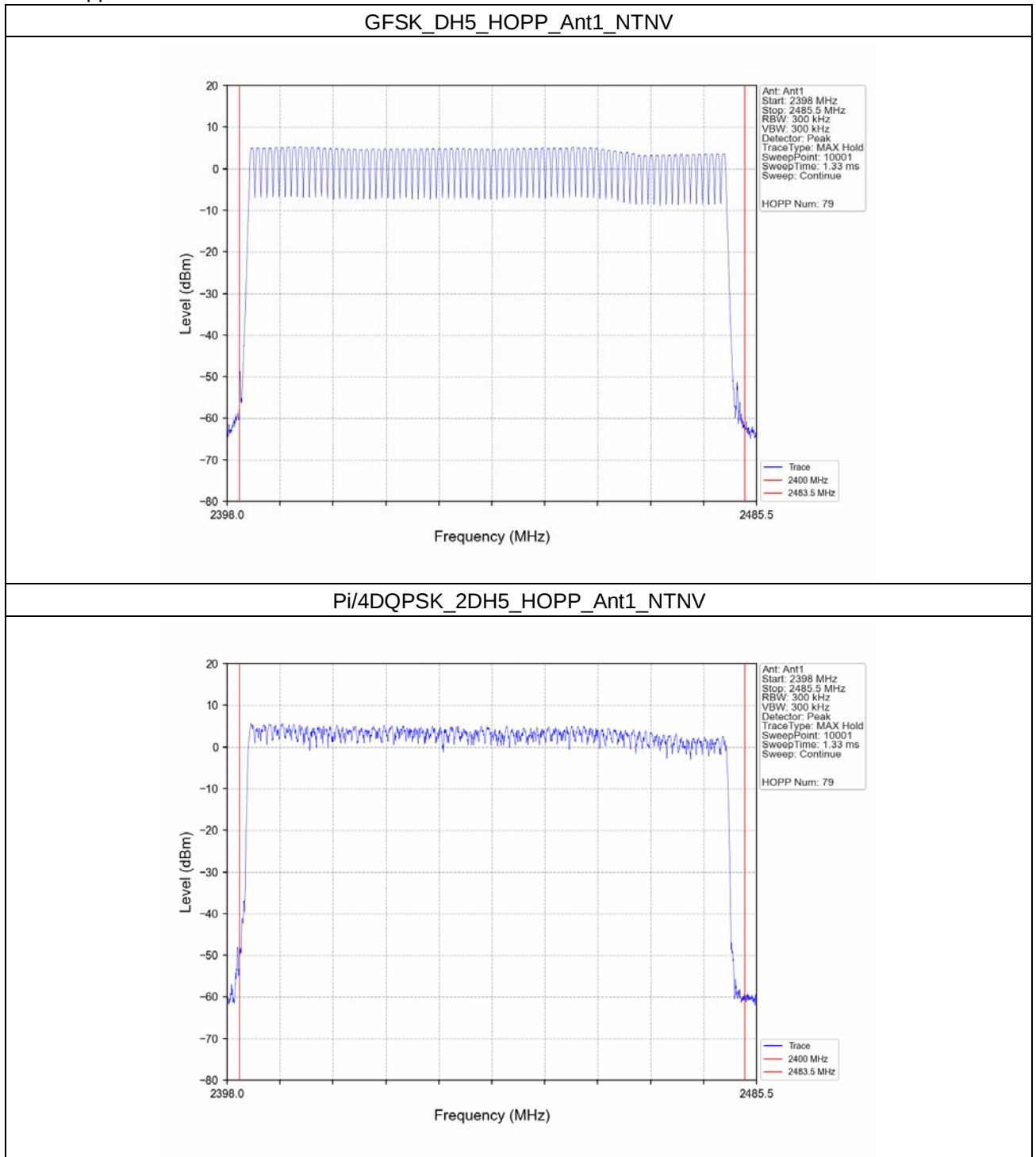
4.1 Test Result

4.1.1 HoppNum

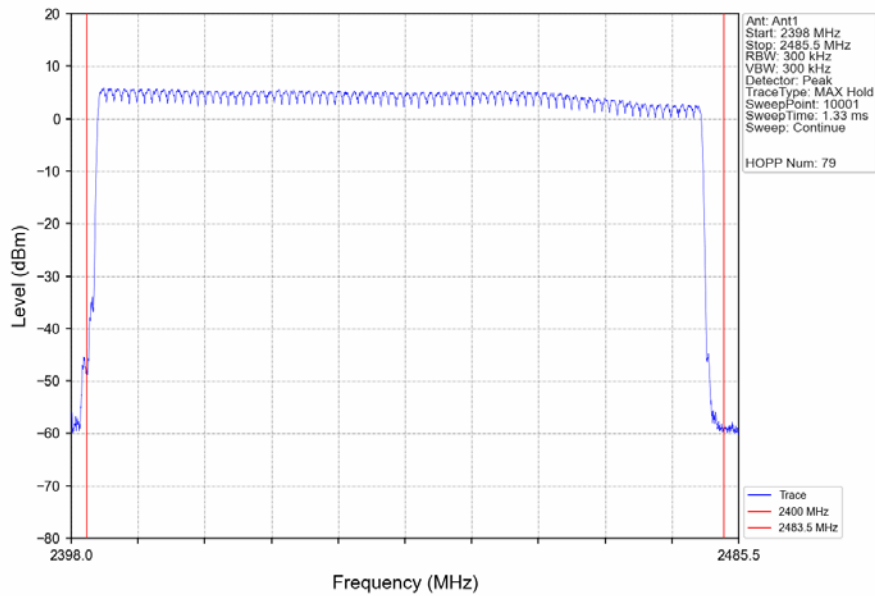
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

4.2 Test Graph

4.2.1 HoppNum



8DPSK_3DH5_HOPP_Ant1_NTNV



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5. Time of Occupancy (Dwell Time)

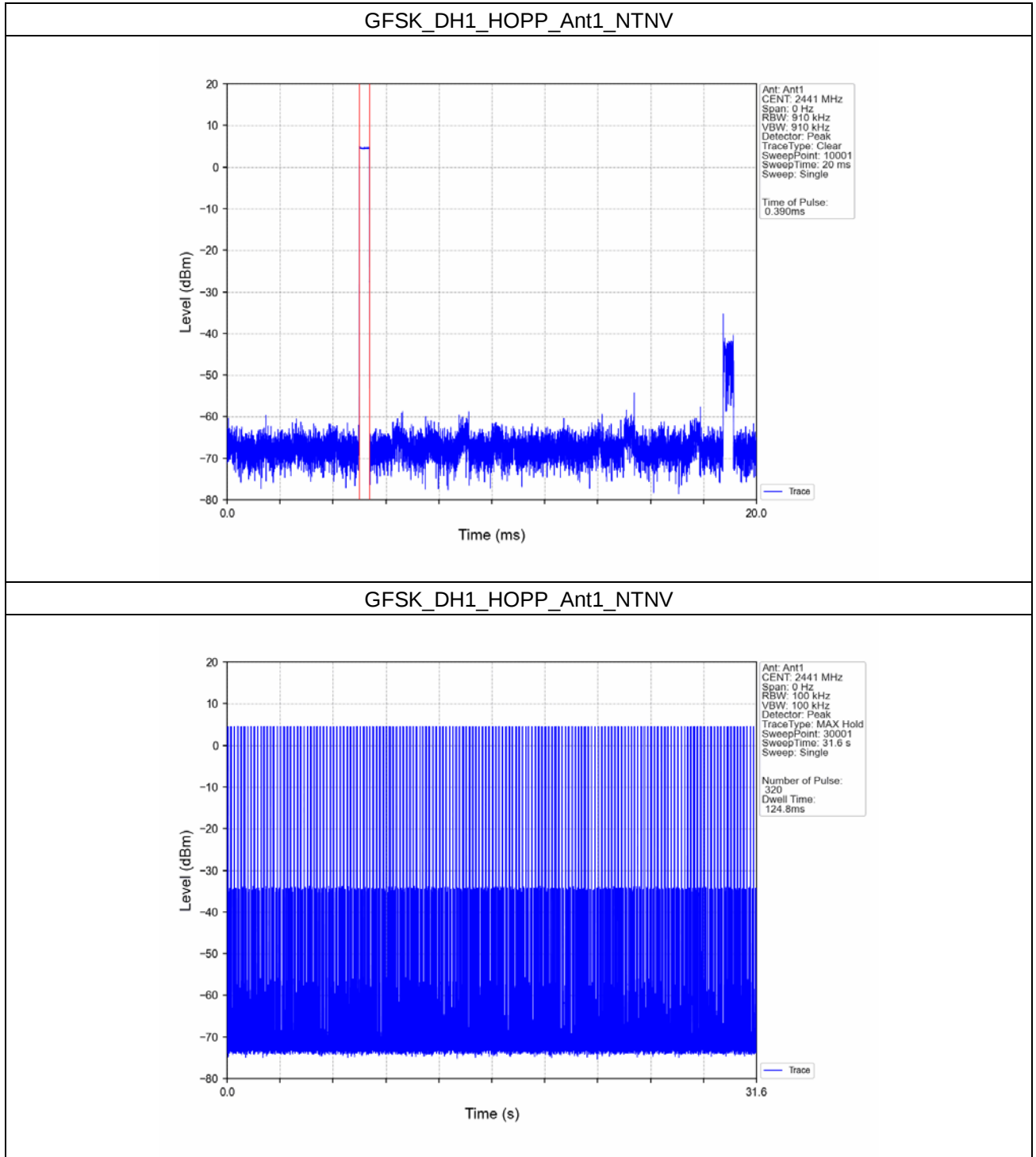
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5.1.1 Ant1

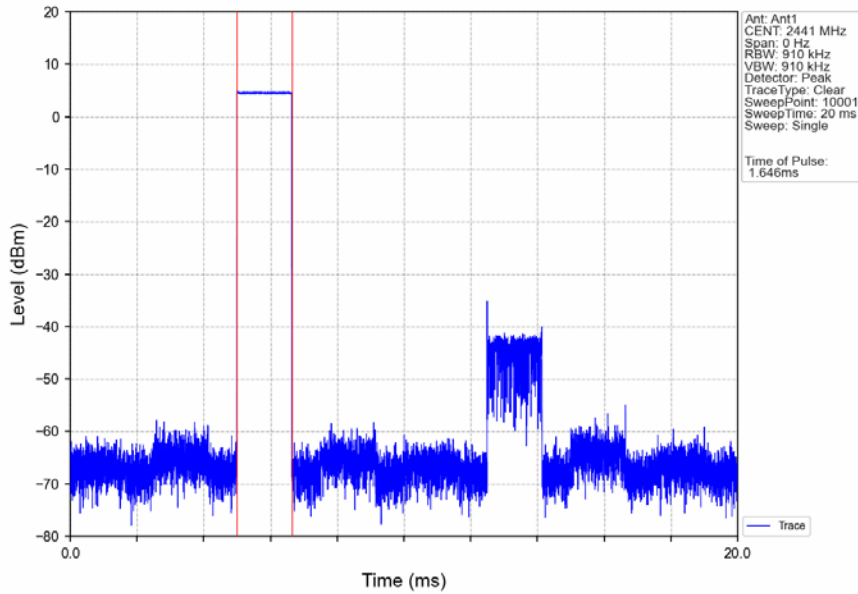
Ant1									
Mode	Tx Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.390	31.600	320	124.800	<=400	Pass
			DH3	1.646	31.600	162	266.652	<=400	Pass
			DH5	2.896	31.600	113	327.248	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	320	126.720	<=400	Pass
			2DH3	1.648	31.600	156	257.088	<=400	Pass
			2DH5	2.896	31.600	107	309.872	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.394	31.600	320	126.080	<=400	Pass
			3DH3	1.648	31.600	163	268.624	<=400	Pass
			3DH5	2.900	31.600	101	292.900	<=400	Pass

5.2 Test Graph

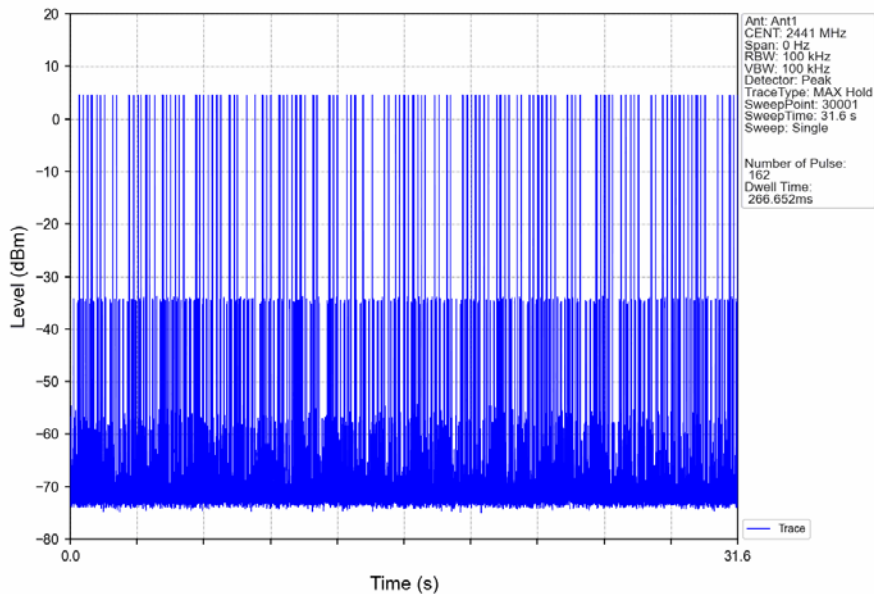
5.2.1 Ant1



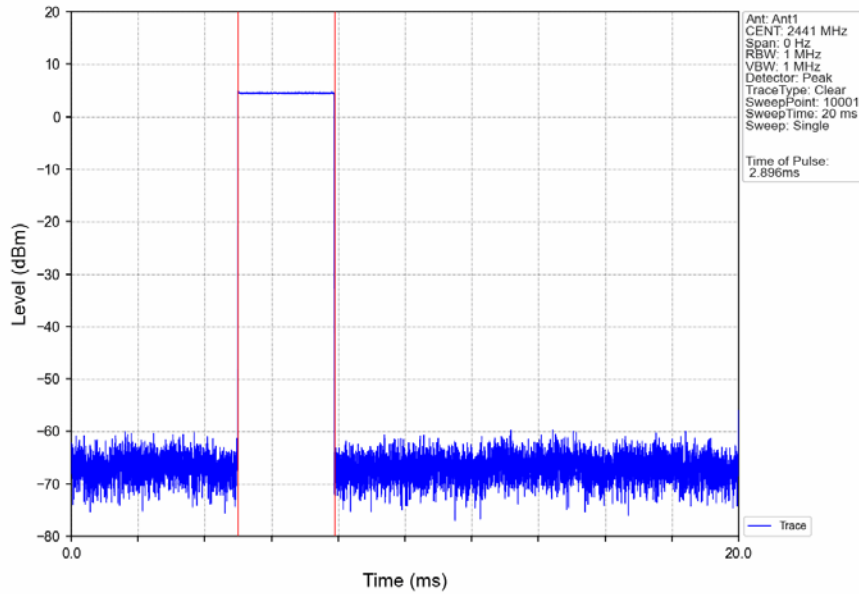
GFSK_DH3_HOPP_Ant1_NTNV



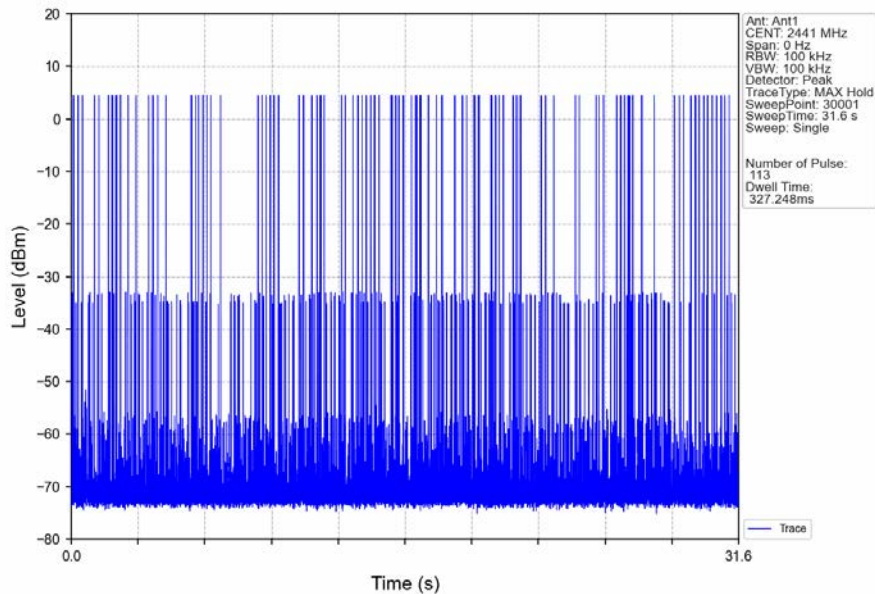
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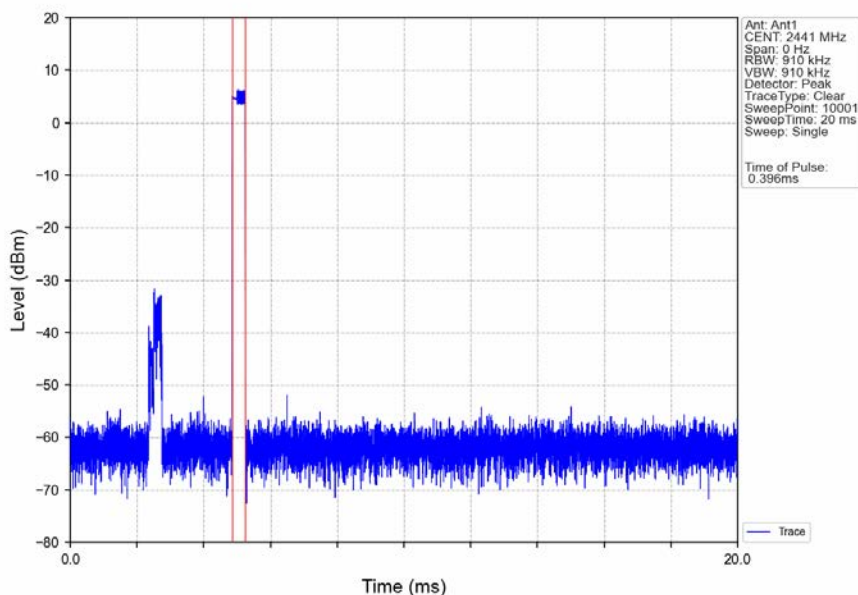
GFSK_DH5_HOPP_Ant1_NTNV



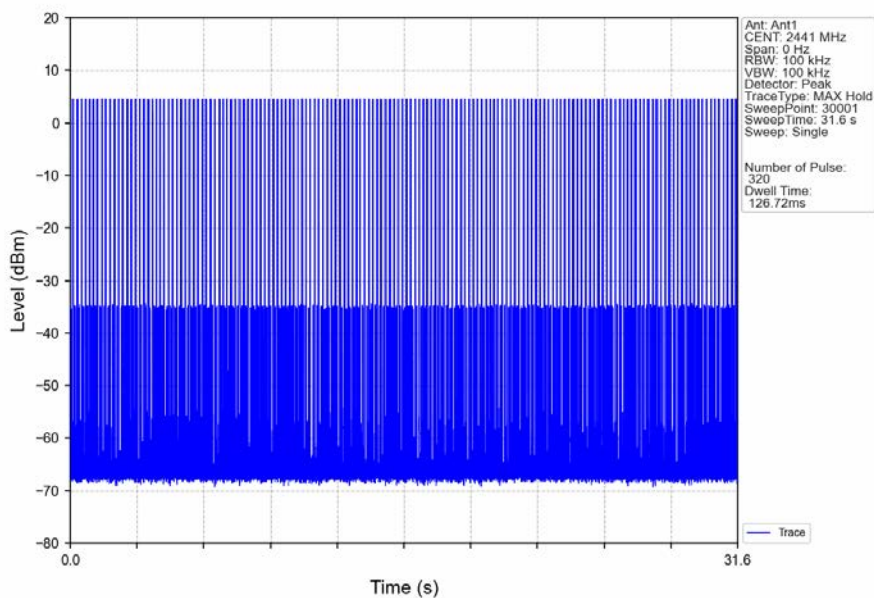
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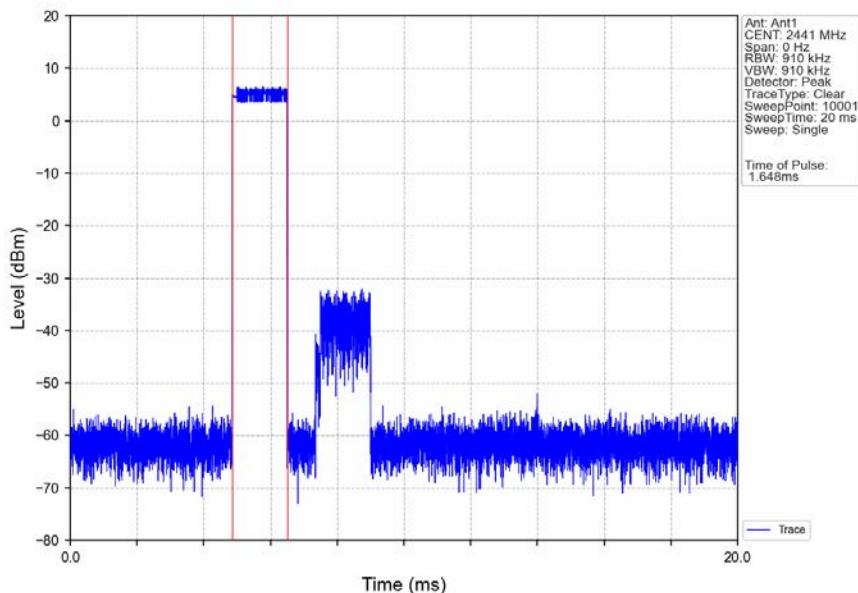
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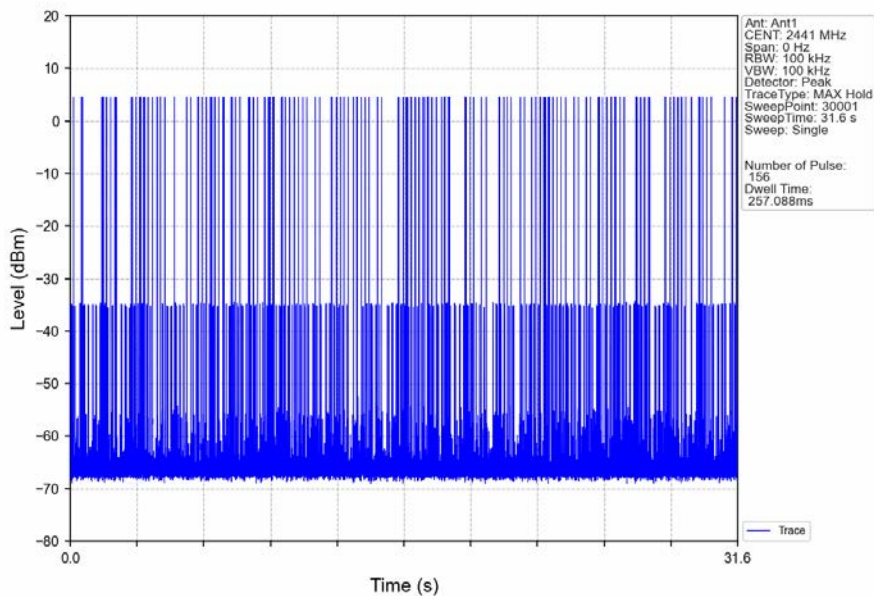
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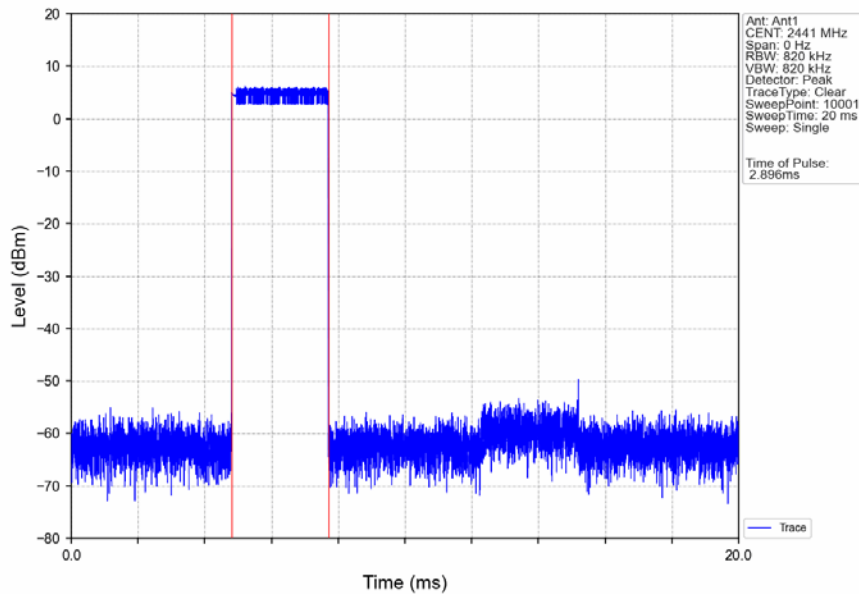
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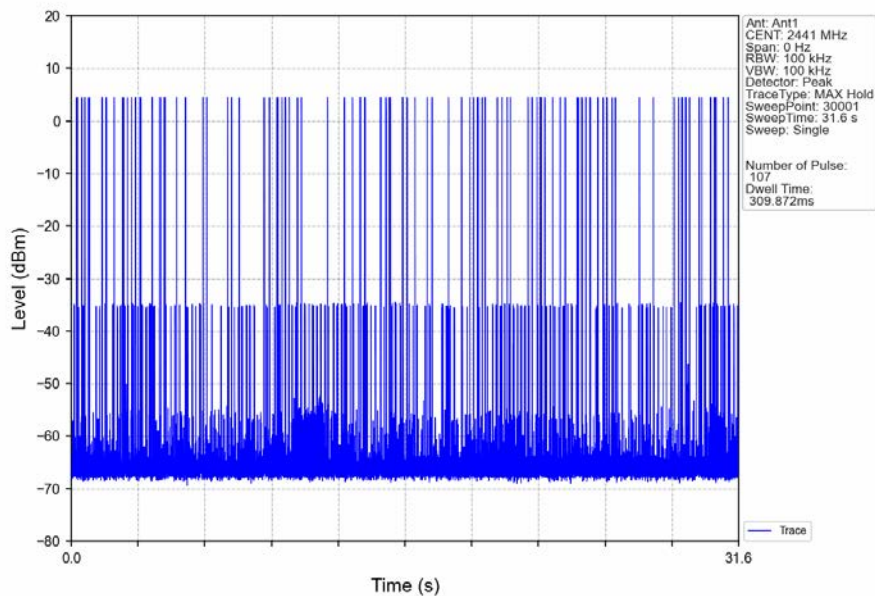
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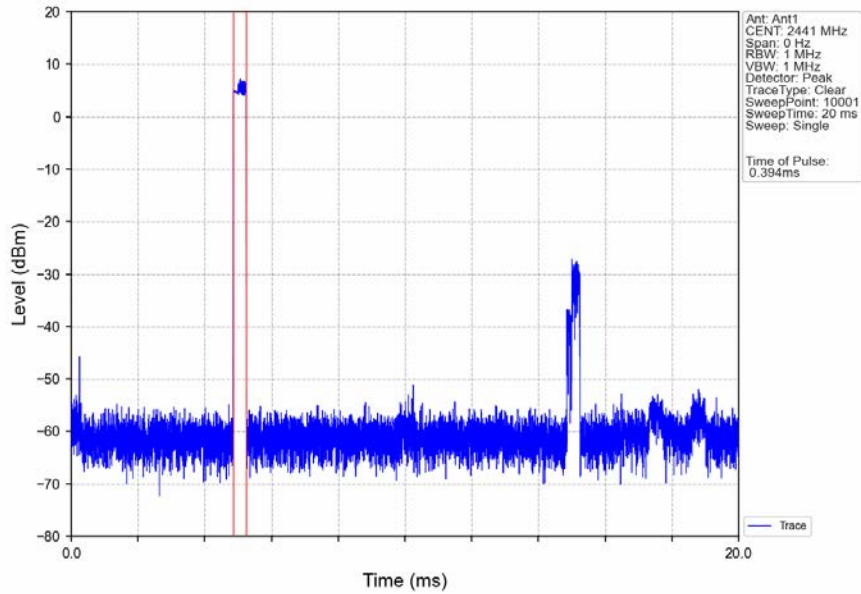
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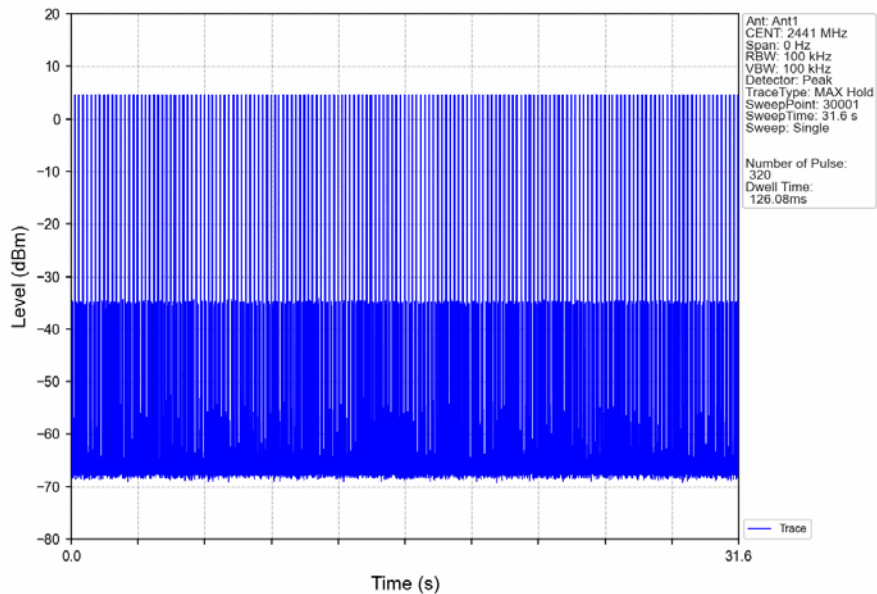
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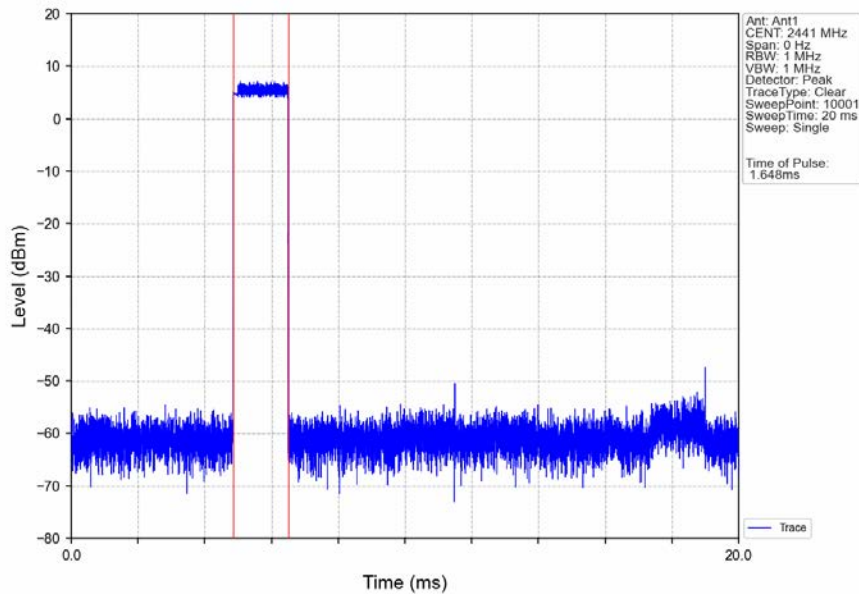
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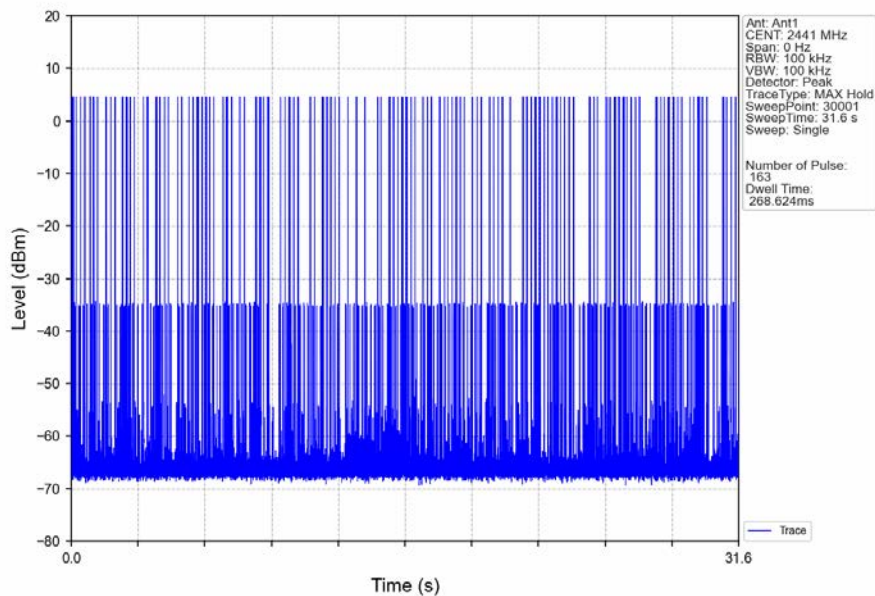
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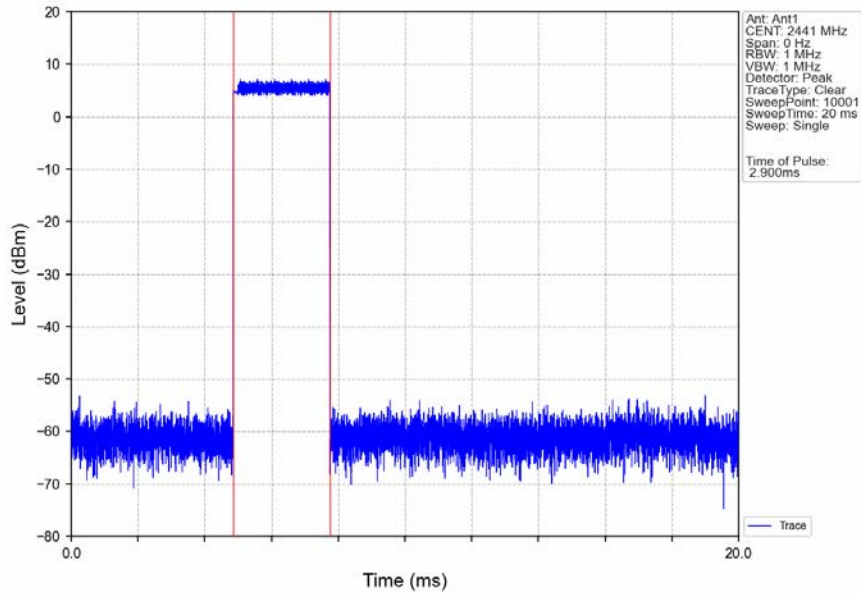
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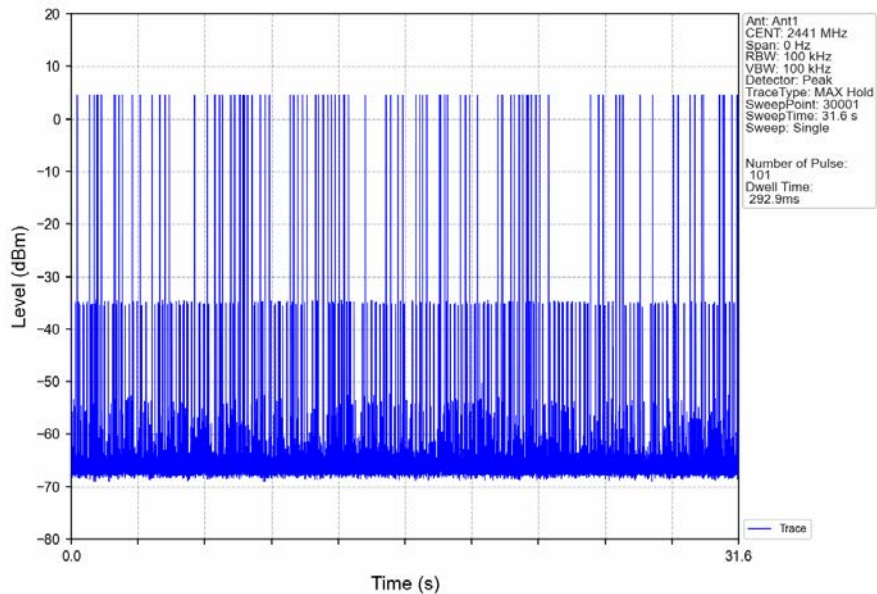
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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	4.94
		2441	DH5	1	4.73
		2480	DH5	1	3.61
Pi/4DQPSK	SISO	2402	2DH5	1	5.43
		2441	2DH5	1	4.79
		2480	2DH5	1	2.27
8DPSK	SISO	2402	3DH5	1	5.37
		2441	3DH5	1	4.71
		2480	3DH5	1	2.35

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800361402

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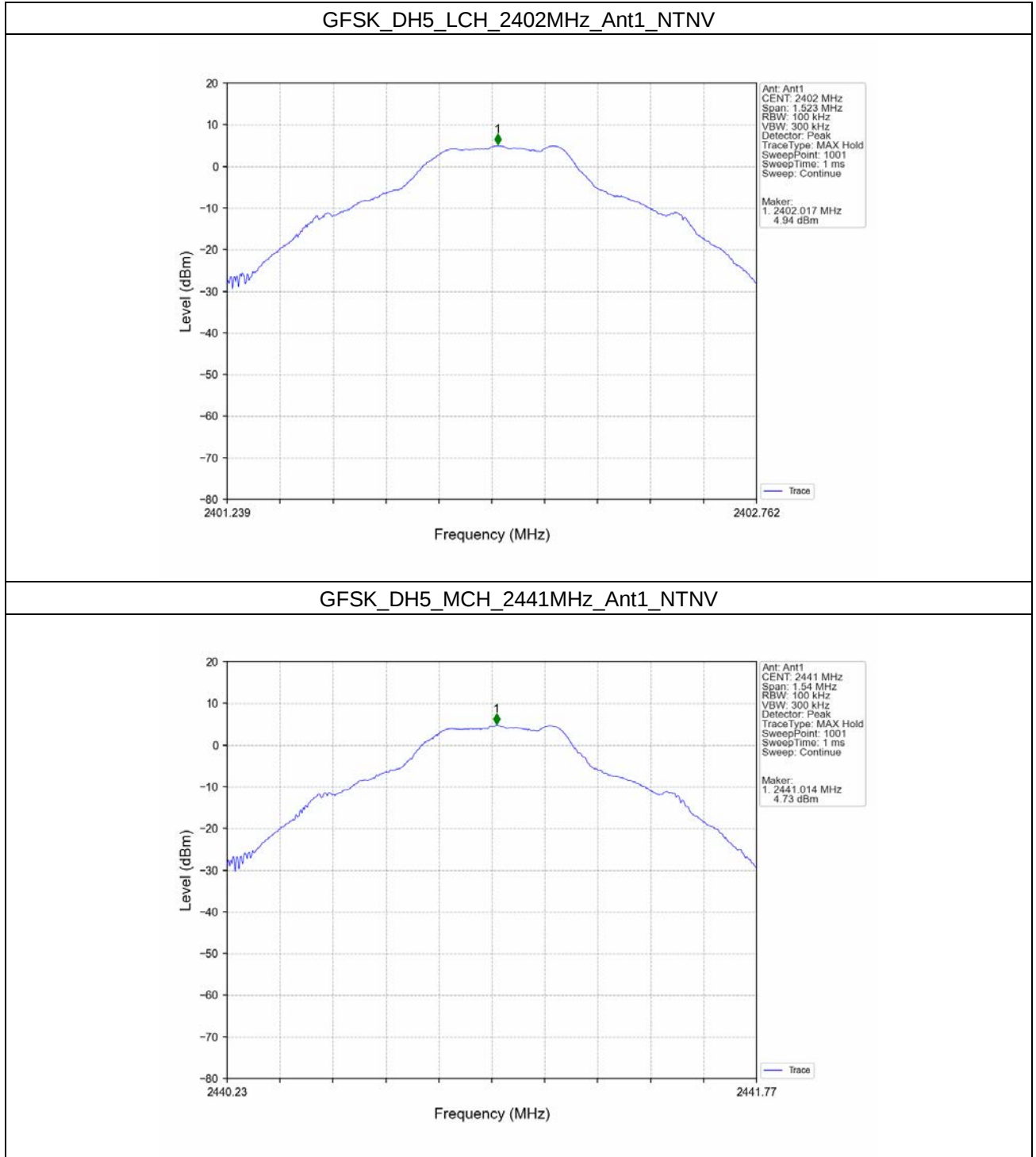
6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	4.94	-15.06	Pass
		2441	DH5	1	4.94	-15.06	Pass
		2480	DH5	1	4.94	-15.06	Pass
		HOPP	DH5	1	4.94	-15.06	Pass
					4.94	-15.06	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	5.43	-14.57	Pass
		2441	2DH5	1	5.43	-14.57	Pass
		2480	2DH5	1	5.43	-14.57	Pass
		HOPP	2DH5	1	5.43	-14.57	Pass
					5.43	-14.57	Pass
8DPSK	SISO	2402	3DH5	1	5.37	-14.63	Pass
		2441	3DH5	1	5.37	-14.63	Pass
		2480	3DH5	1	5.37	-14.63	Pass
		HOPP	3DH5	1	5.37	-14.63	Pass
					5.37	-14.63	Pass

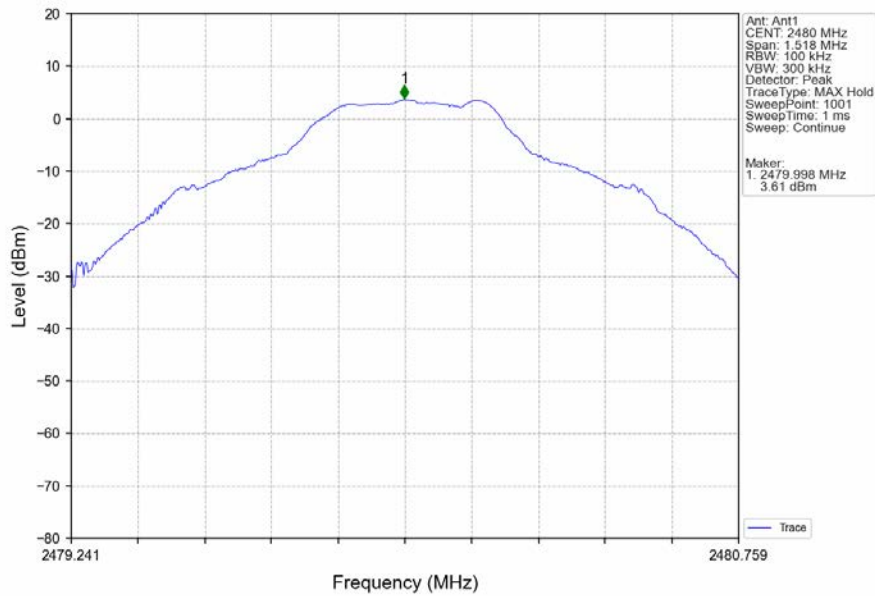
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

6.2 Test Graph

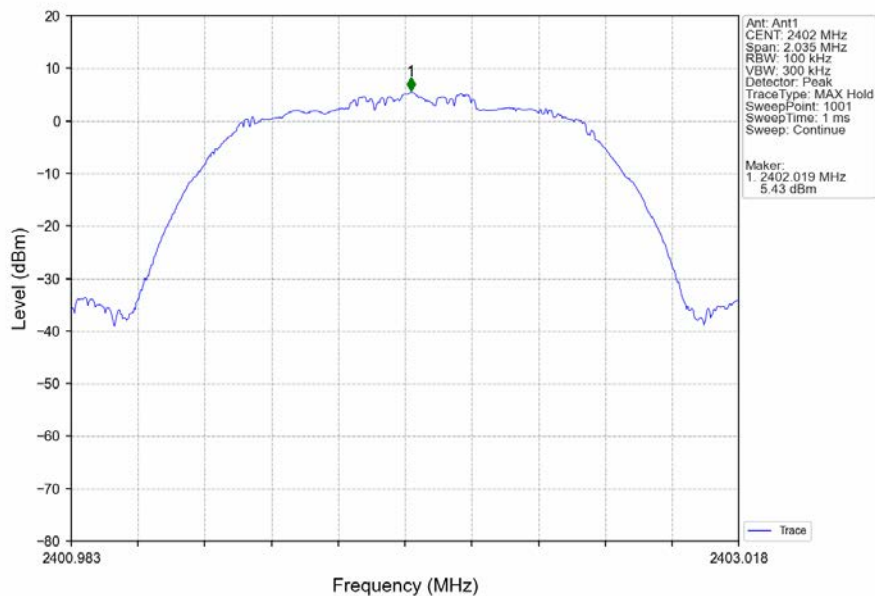
6.2.1 Ref



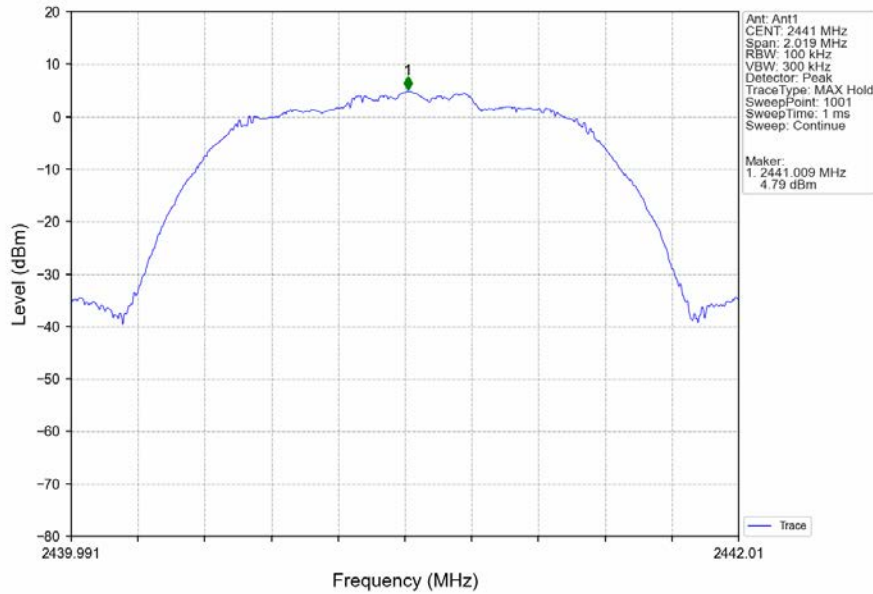
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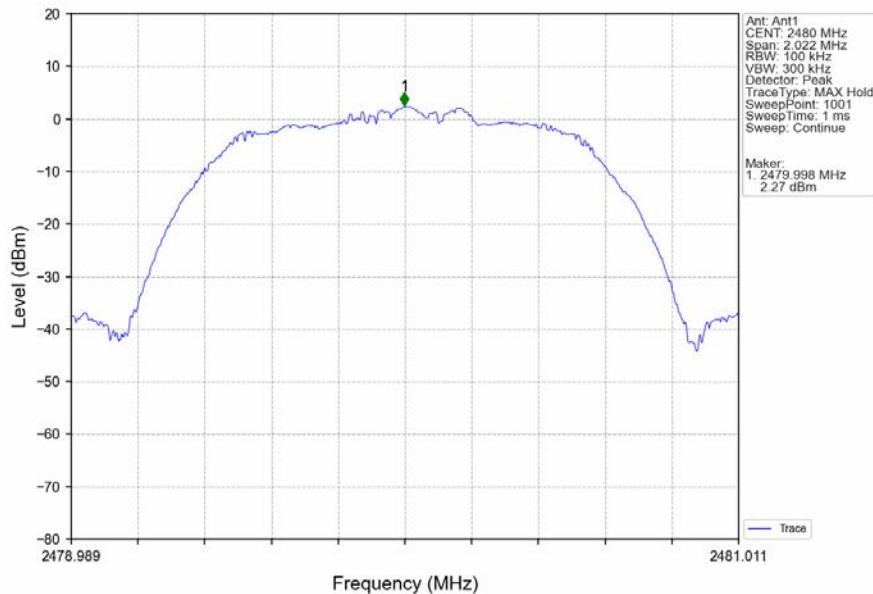
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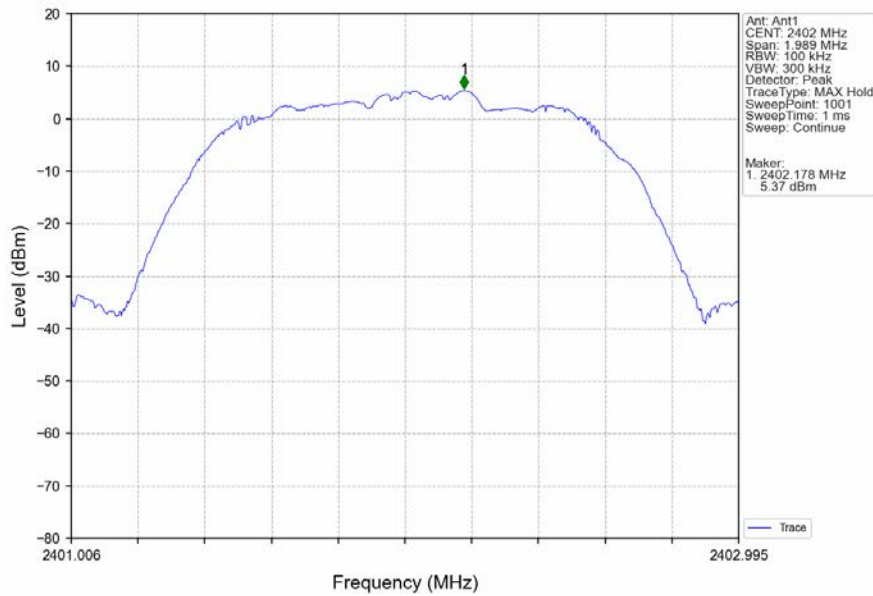
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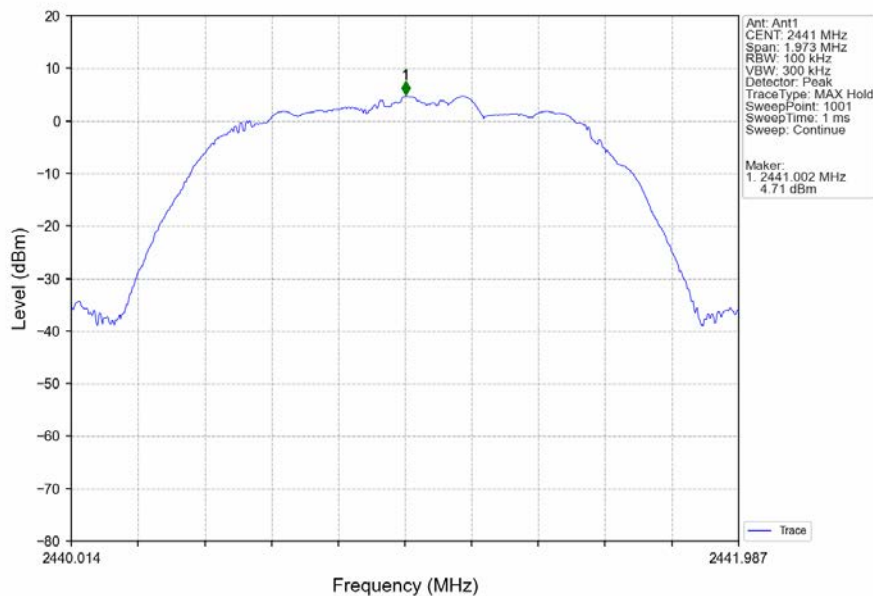
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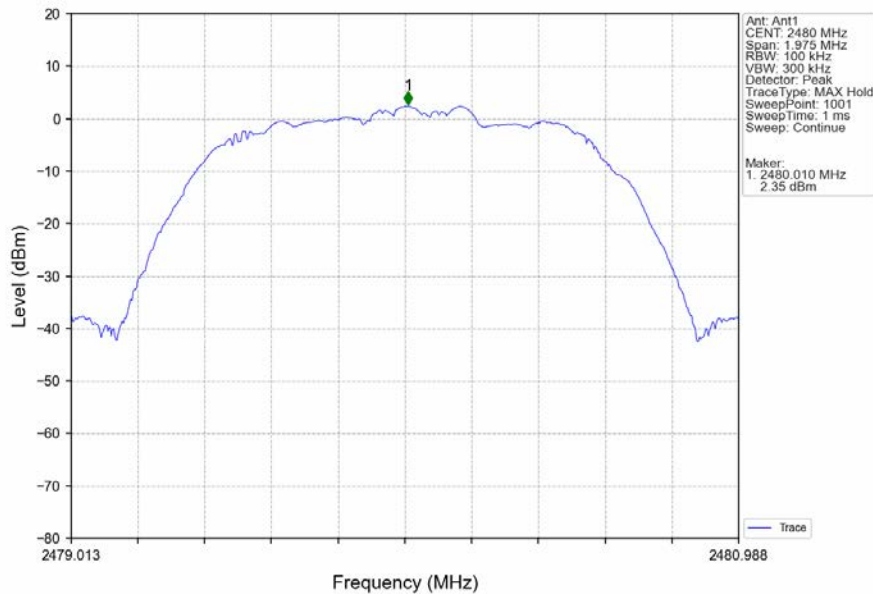
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

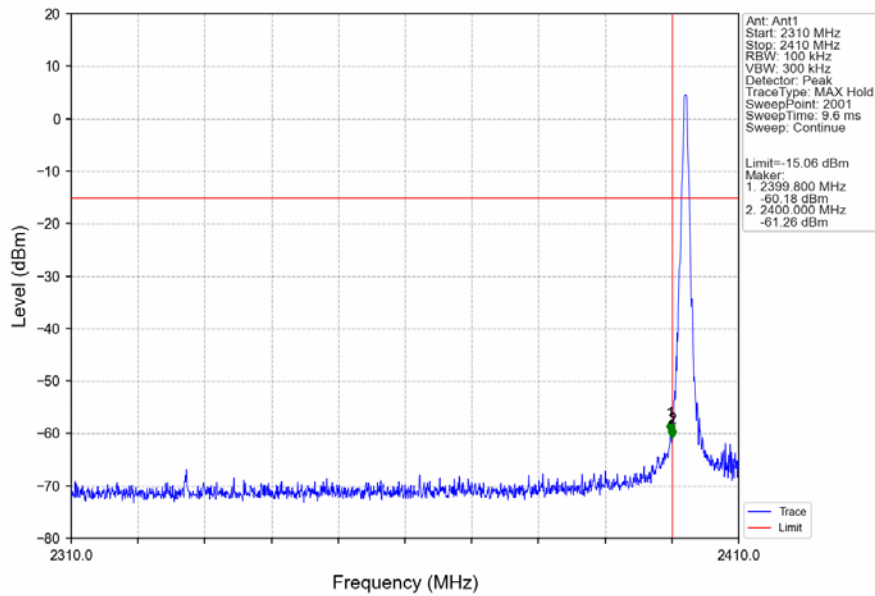


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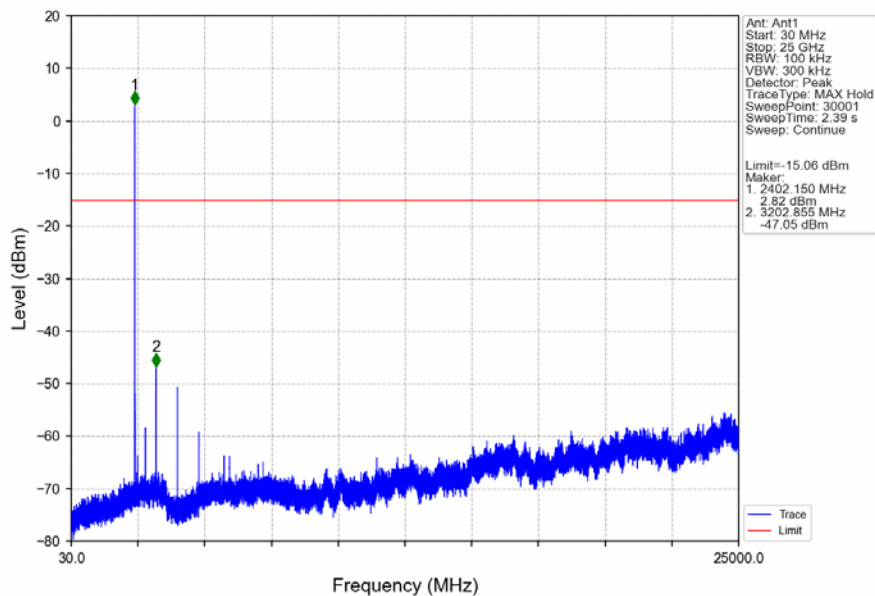


6.2.2 CSE

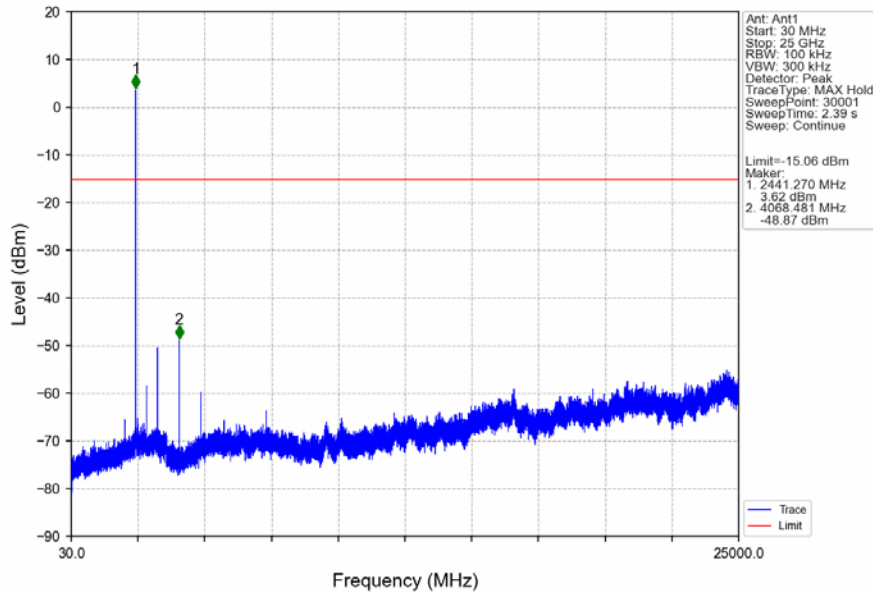
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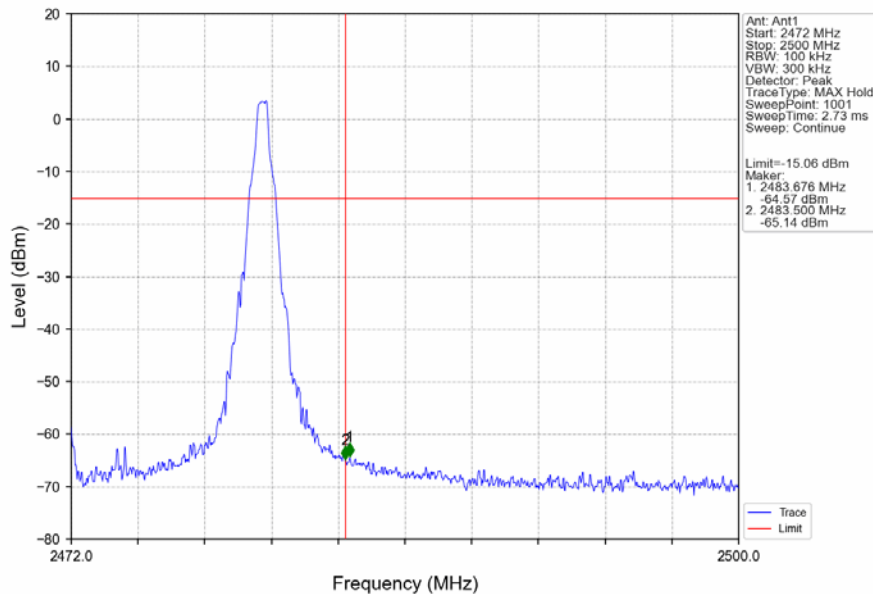
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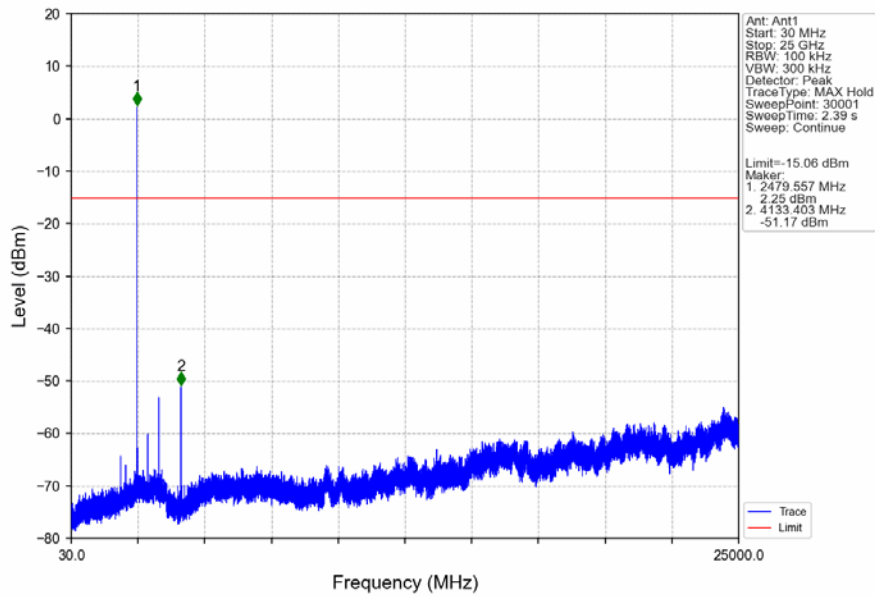
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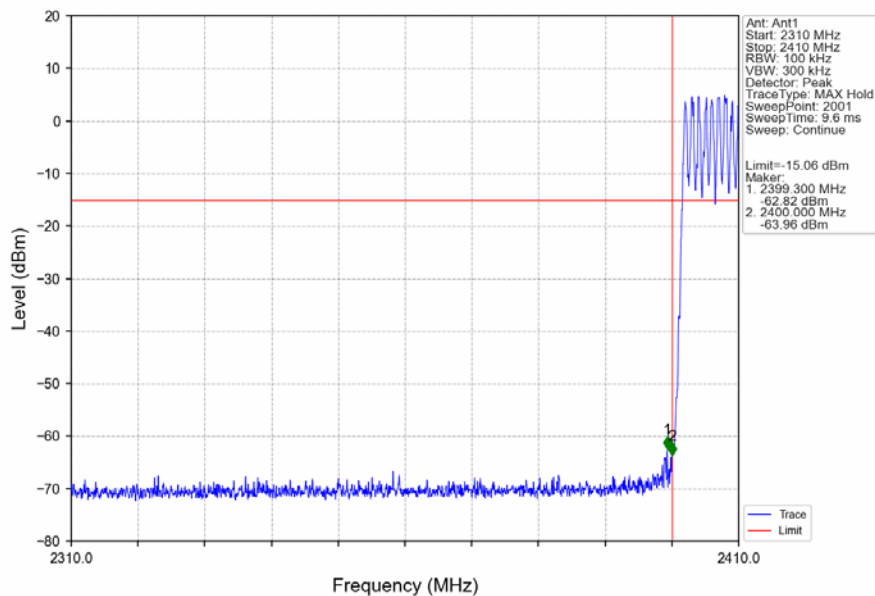
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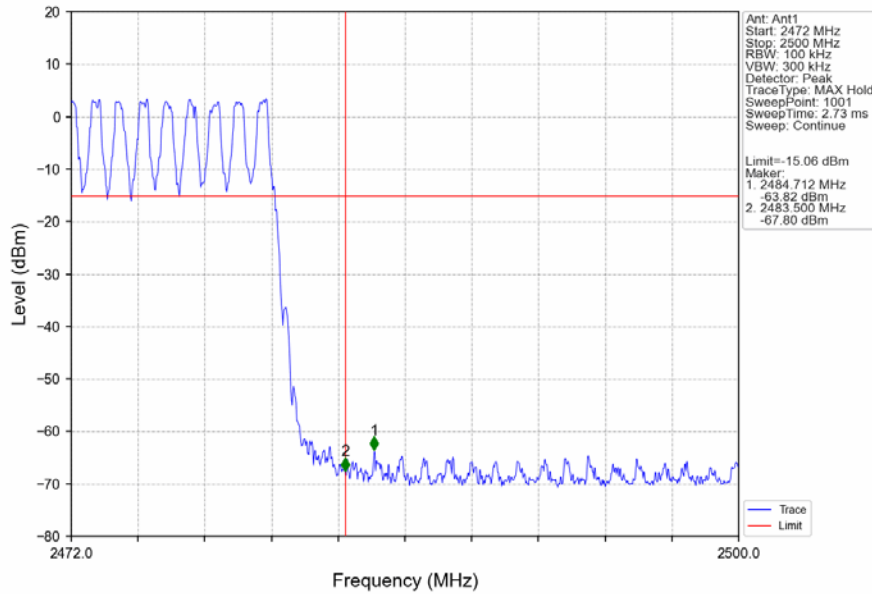
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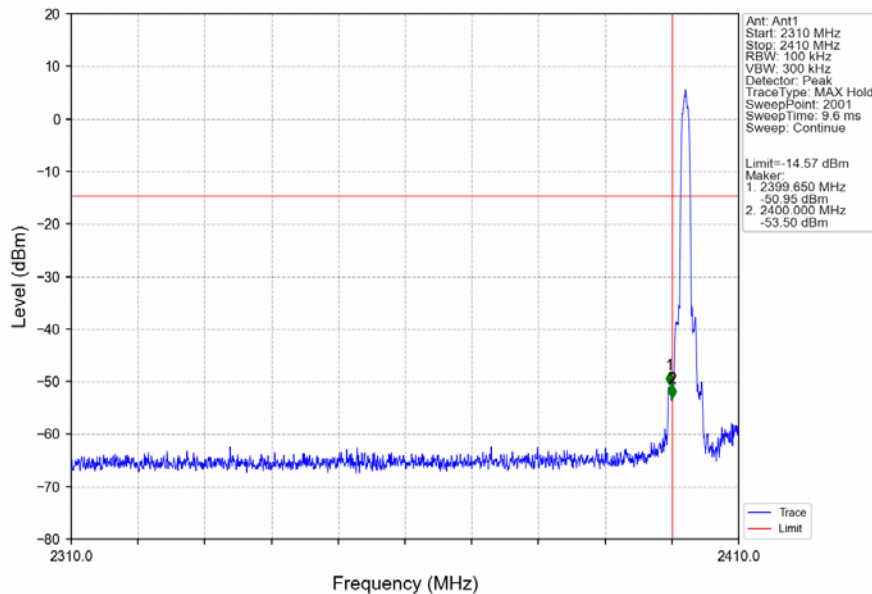
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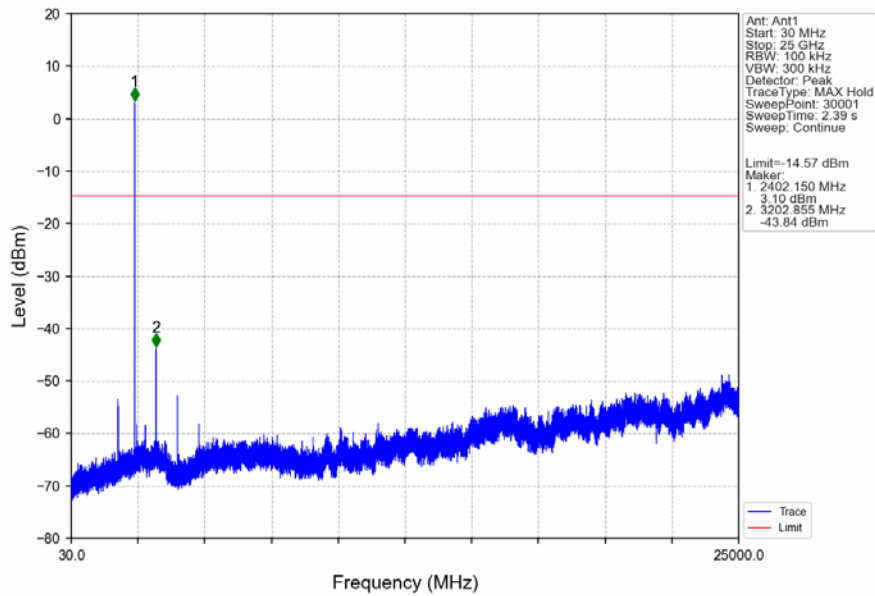
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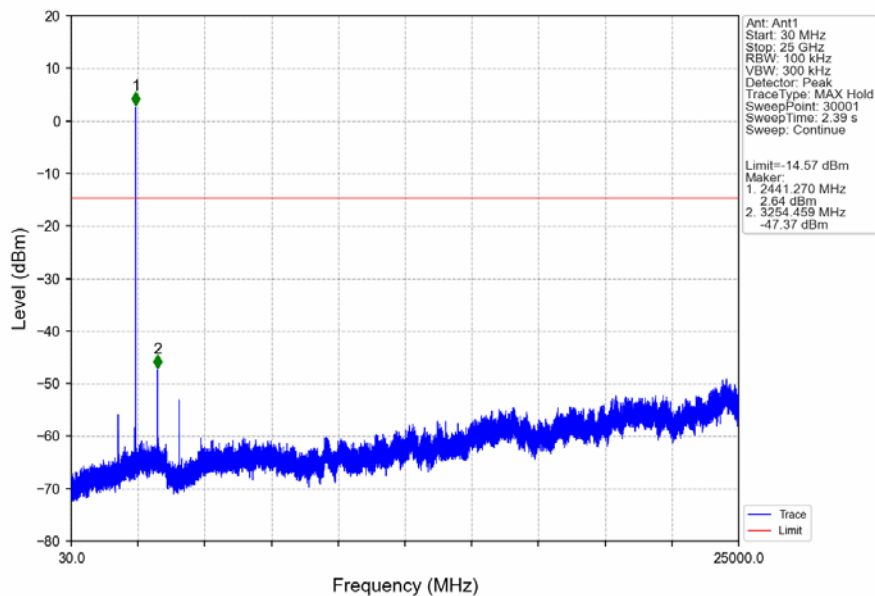
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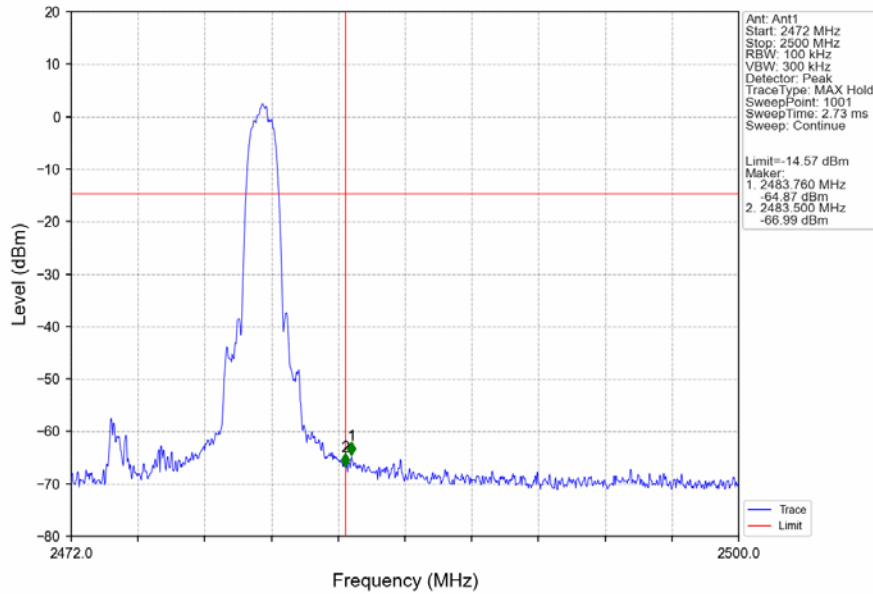
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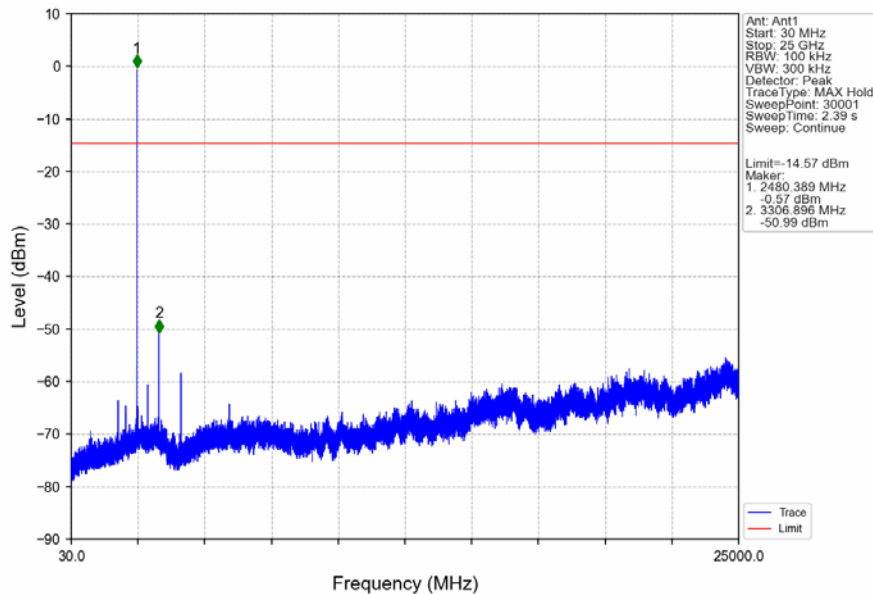
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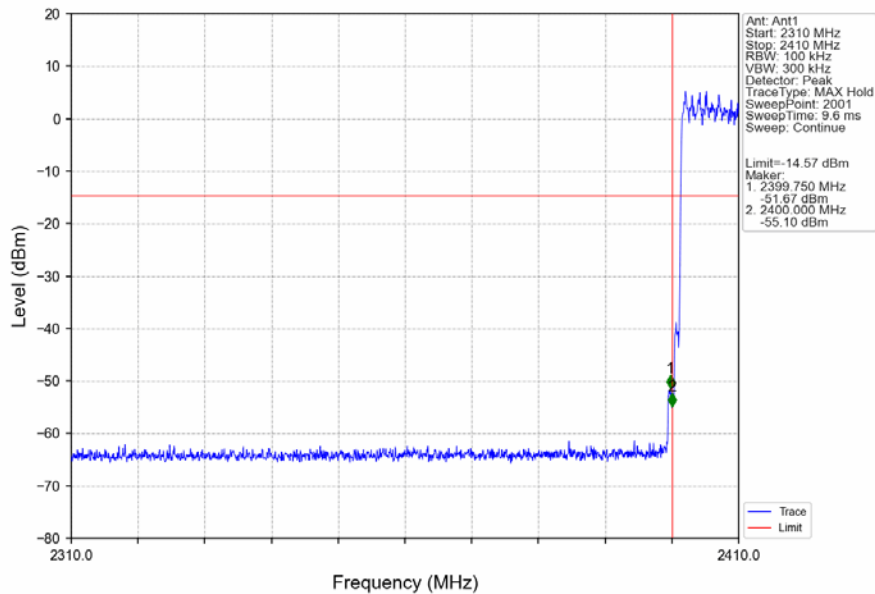
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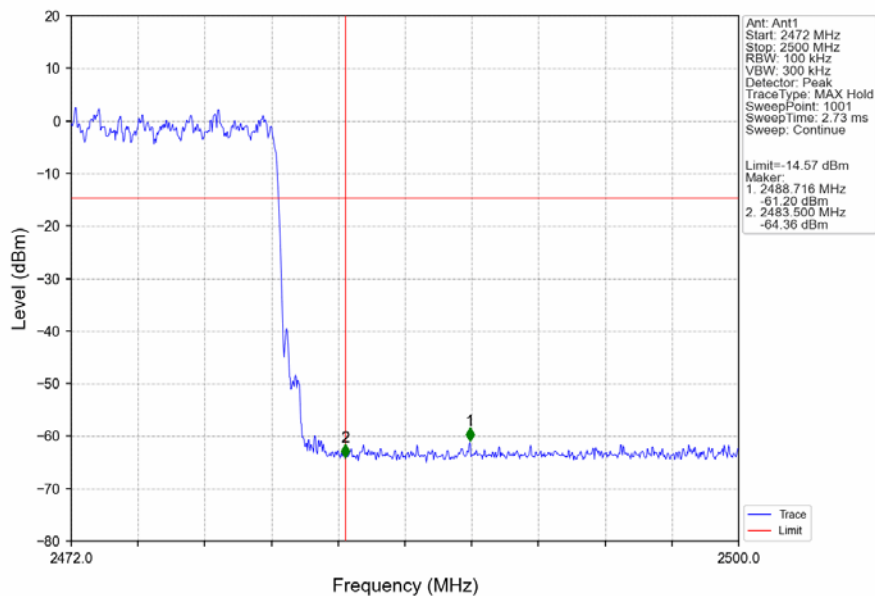
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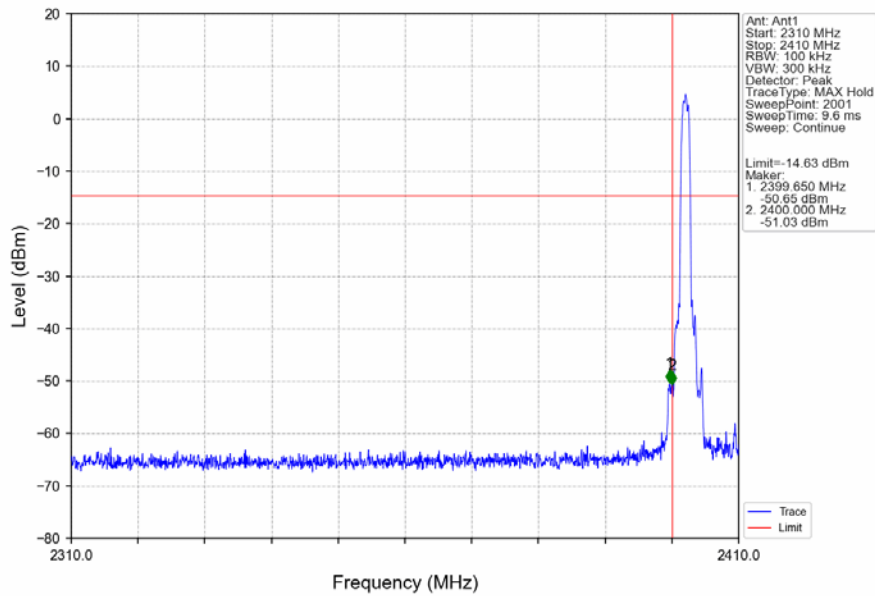
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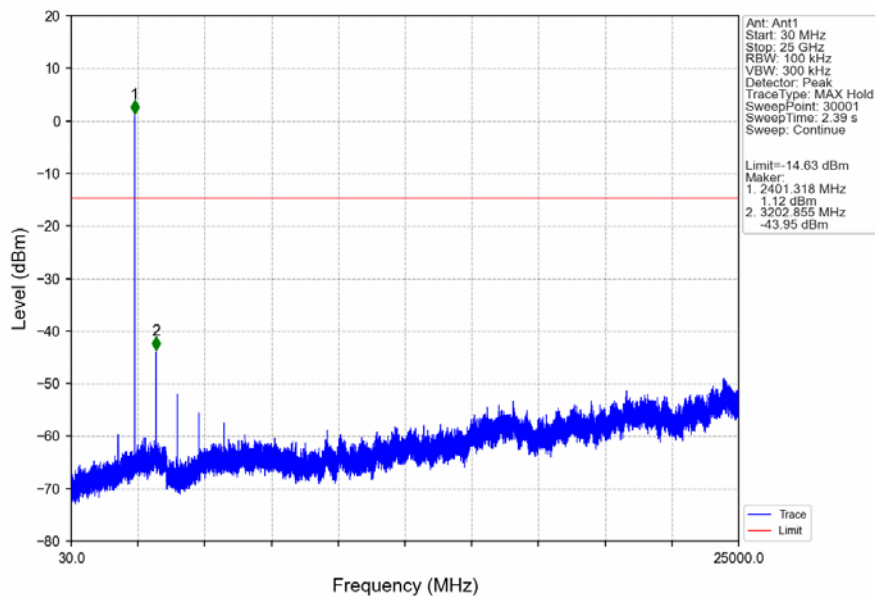
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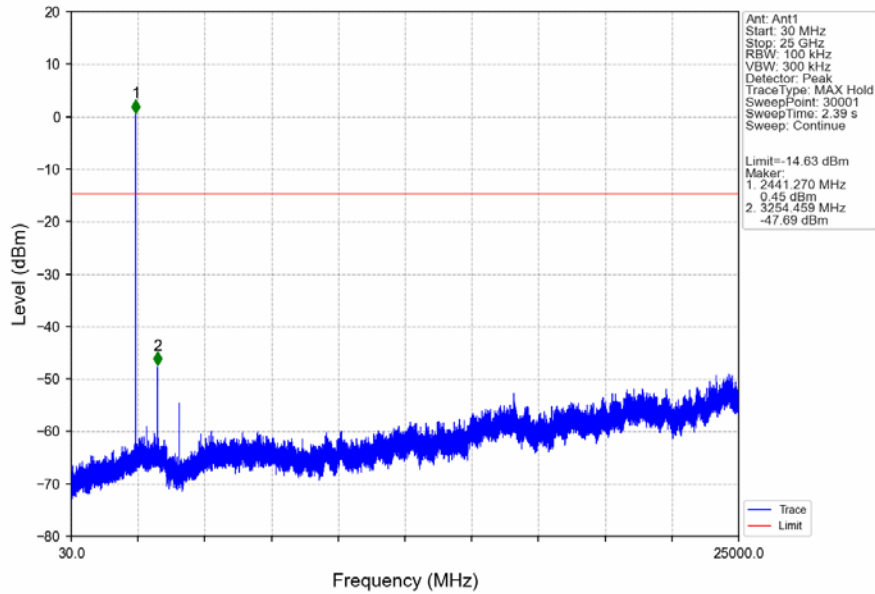
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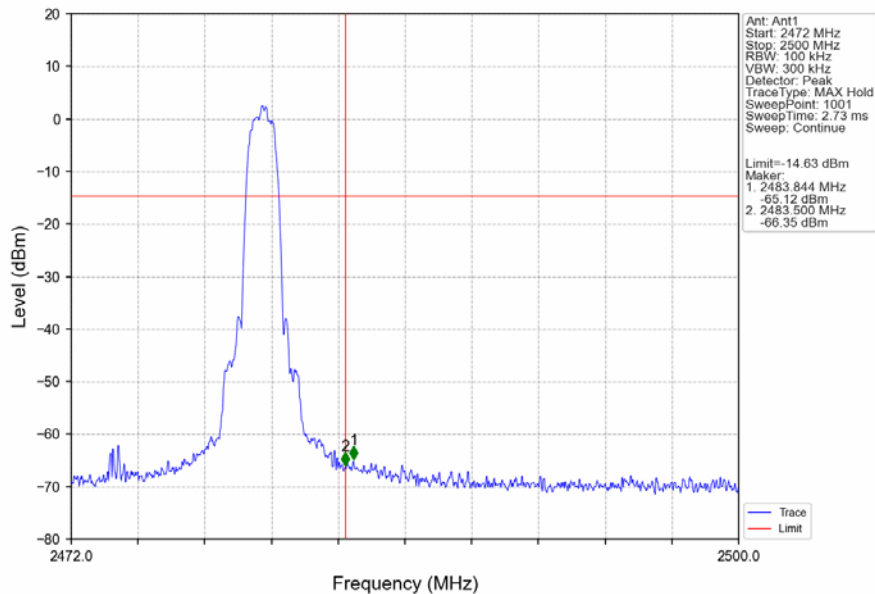
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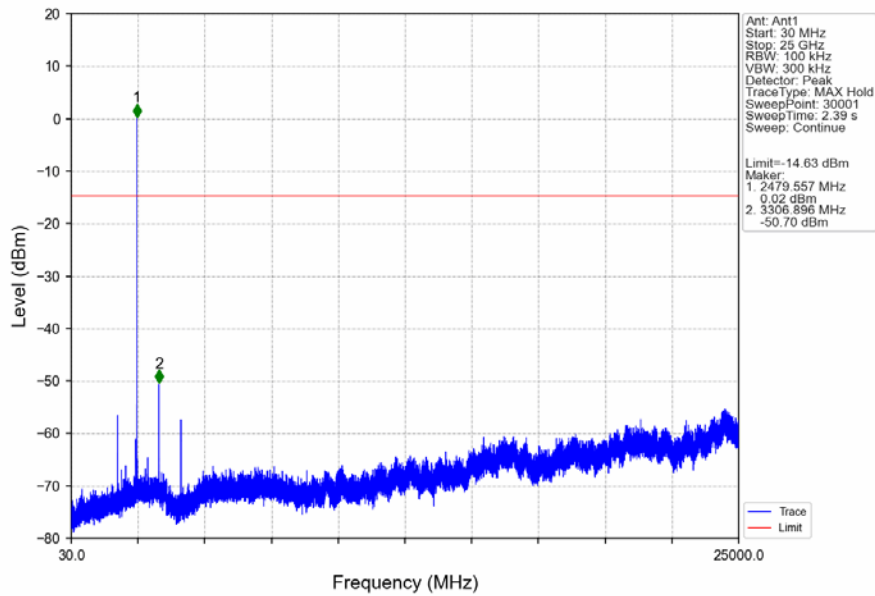
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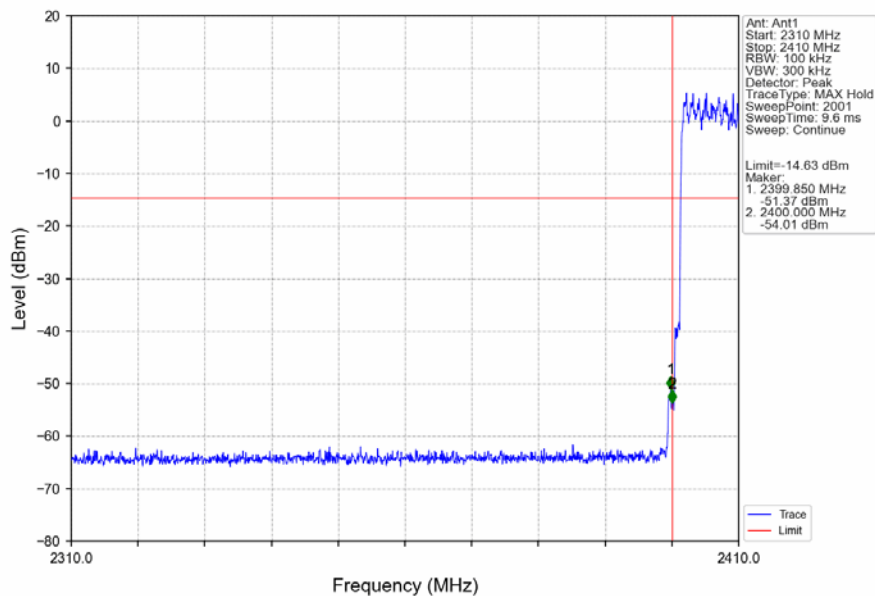
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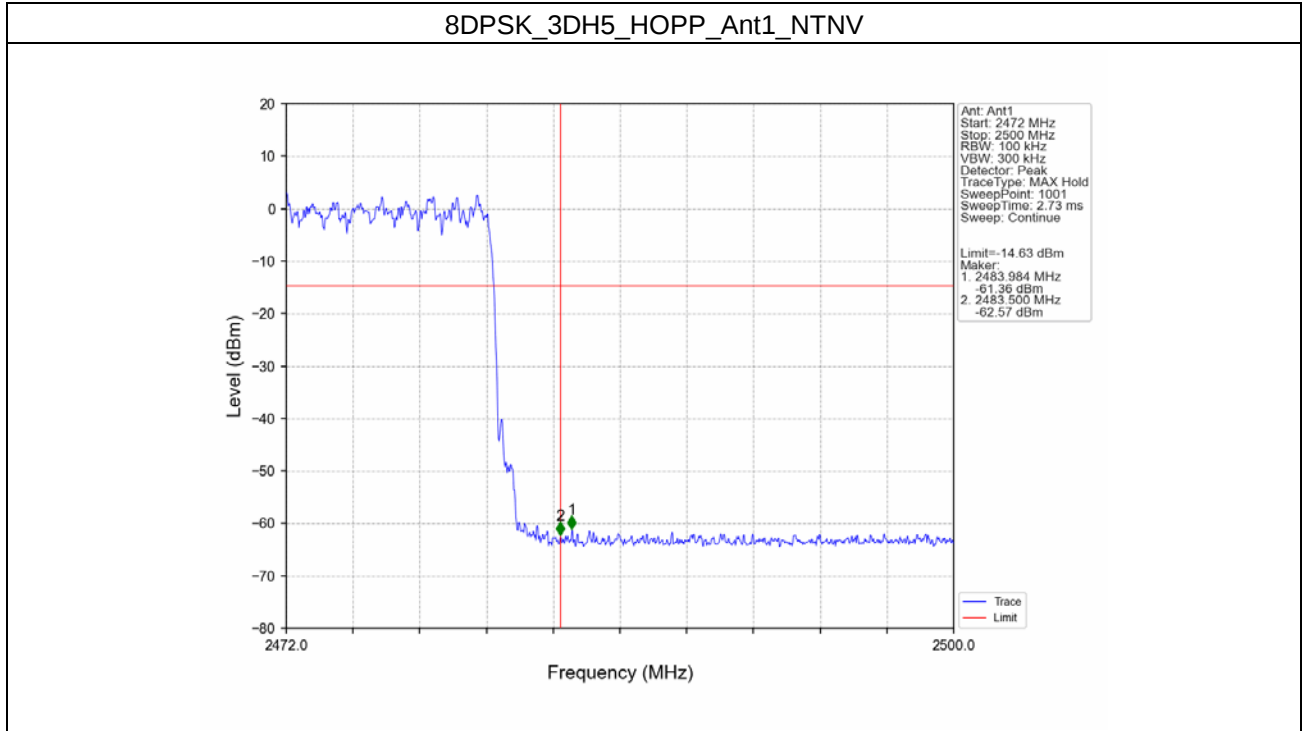


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





- End of the Report -