

FCC ID: 2BBPLWLFTBSPK

Applicant: TRUSTSTONE GROUP, LLC

Address: 1359 Broadway, 3rd Floor New York NY 10018

Manufacturer: TRUSTSTONE GROUP, LLC

Address: 1359 Broadway, 3rd Floor New York NY 10018

Product Name: FOOTBALL SPEAKER

Trade Mark: WONDERLIT

Model Number: WL-FTBSPK-BRW

Date of Receipt: Sep. 08, 2026

Test Date: Sep. 08, 2026 - Sep. 15, 2026

Date of Report: Sep. 15, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC PART 15 C 15.247
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Result: Pass

Report Number: DLE-260908022R

1. Bandwidth

1.1 Test Result

1.1.1 OBW

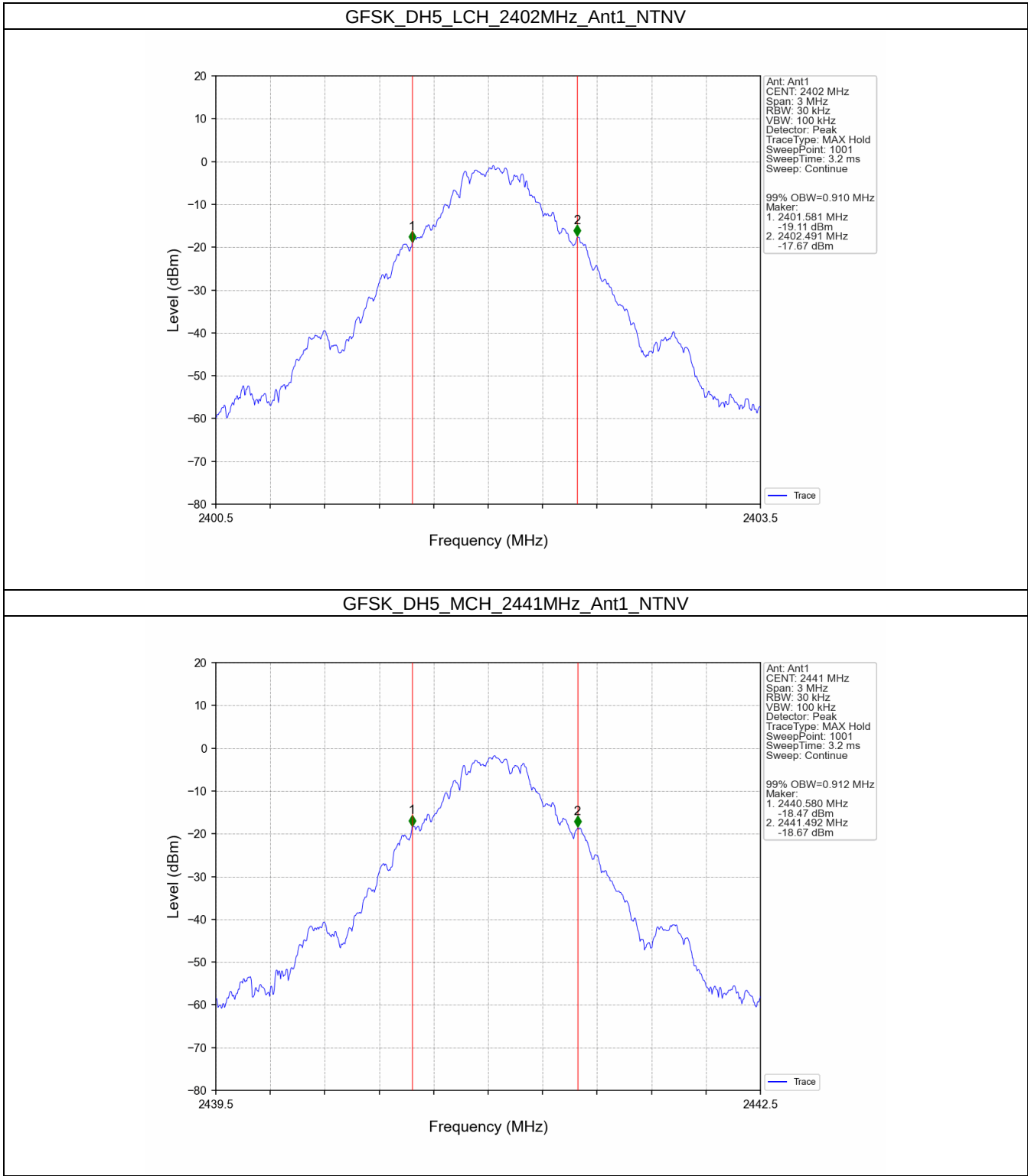
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.910	/	Pass
		2441	DH5	1	0.912	/	Pass
		2480	DH5	1	0.902	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.198	/	Pass
		2441	2DH5	1	1.189	/	Pass
		2480	2DH5	1	1.190	/	Pass
8DPSK	SISO	2402	3DH5	1	1.195	/	Pass
		2441	3DH5	1	1.204	/	Pass
		2480	3DH5	1	1.194	/	Pass

1.1.2 20dB BW

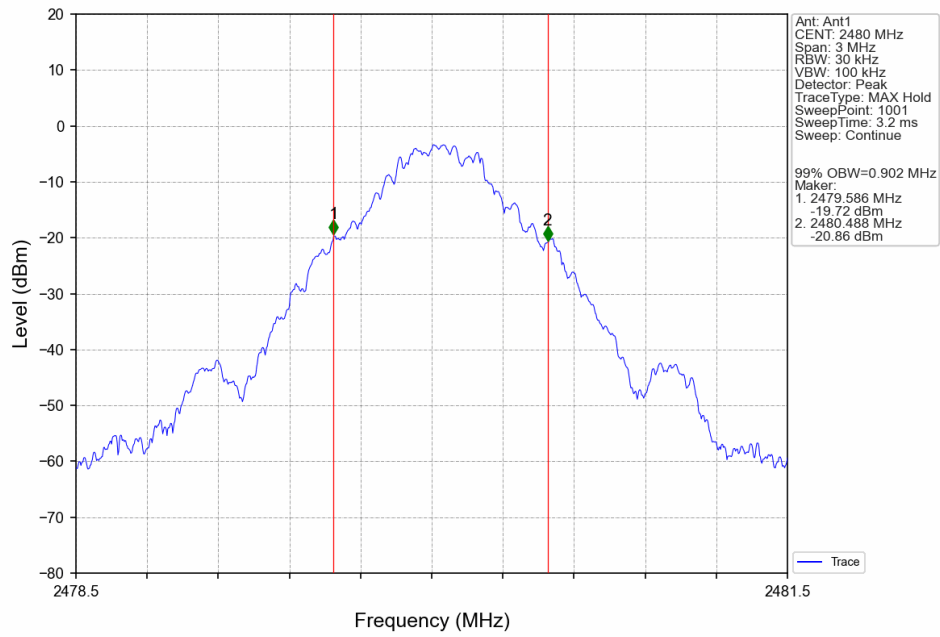
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.030	/	Pass
		2441	DH5	1	1.031	/	Pass
		2480	DH5	1	1.021	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.318	/	Pass
		2441	2DH5	1	1.322	/	Pass
		2480	2DH5	1	1.313	/	Pass
8DPSK	SISO	2402	3DH5	1	1.301	/	Pass
		2441	3DH5	1	1.303	/	Pass
		2480	3DH5	1	1.304	/	Pass

1.2 Test Graph

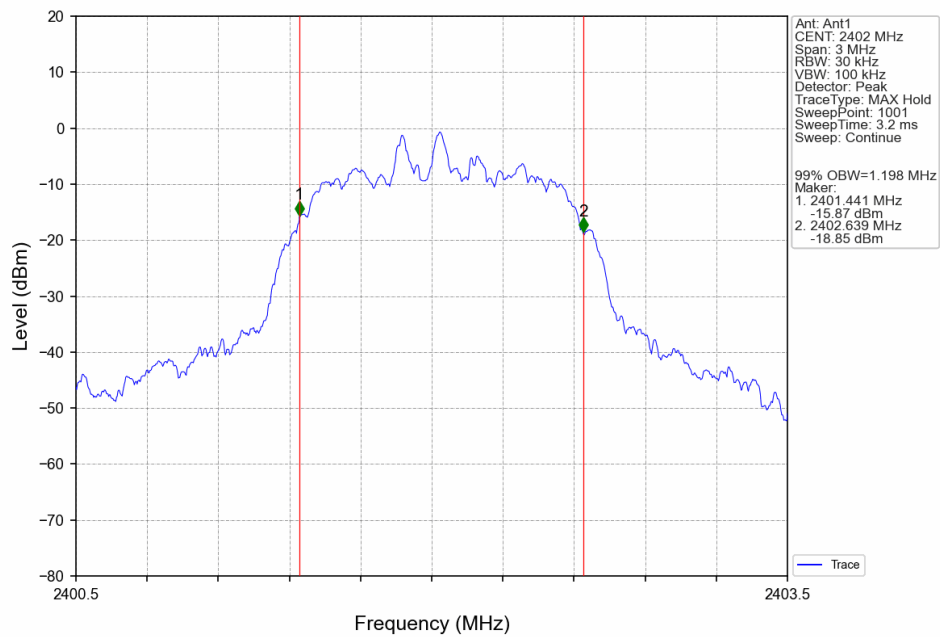
1.2.1 OBW



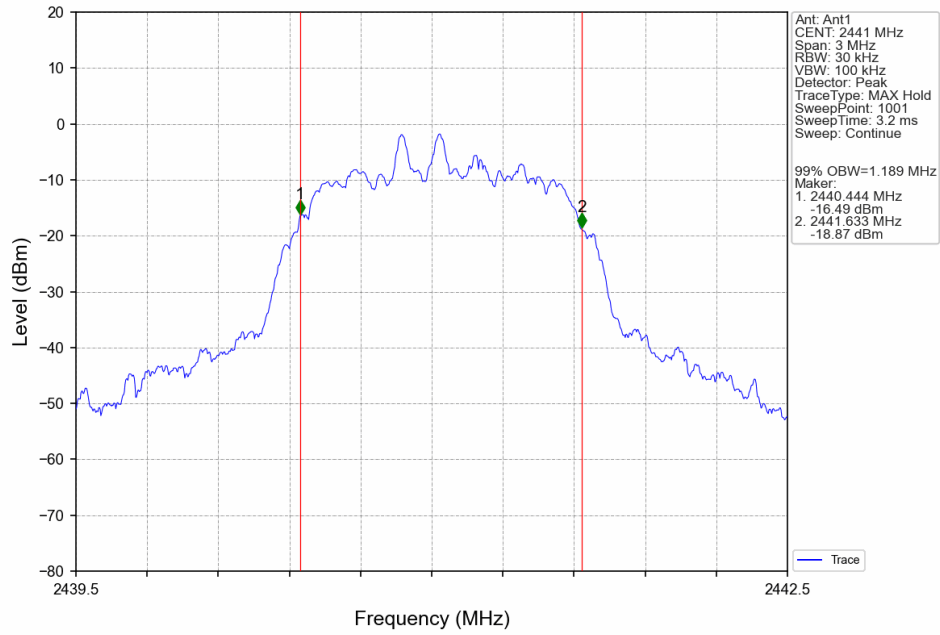
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



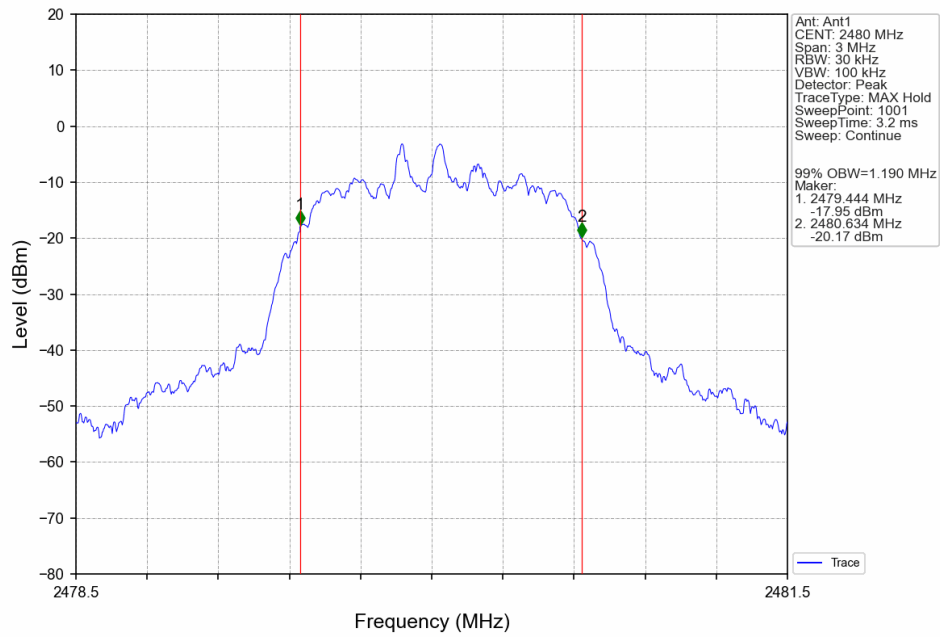
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



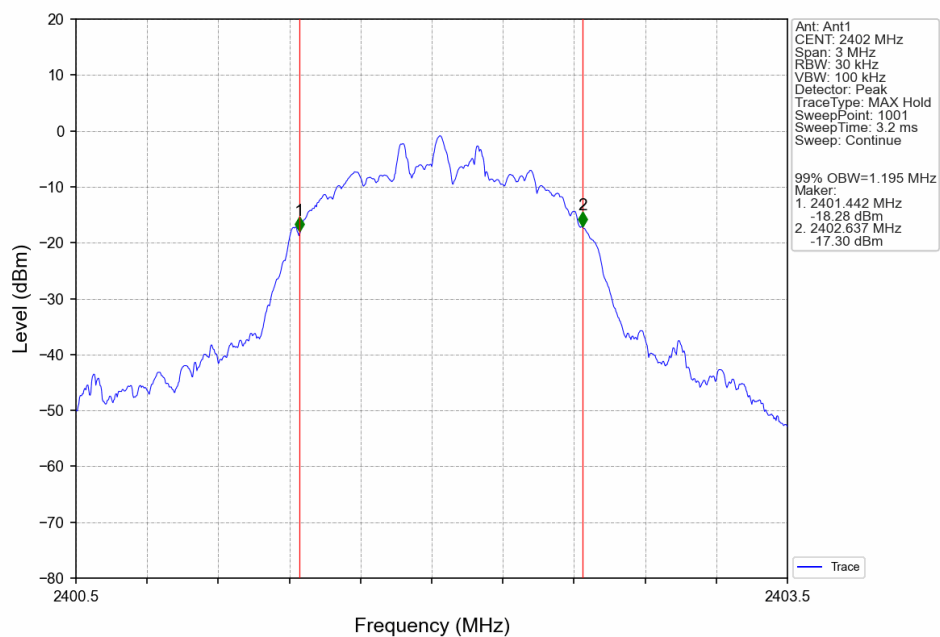
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



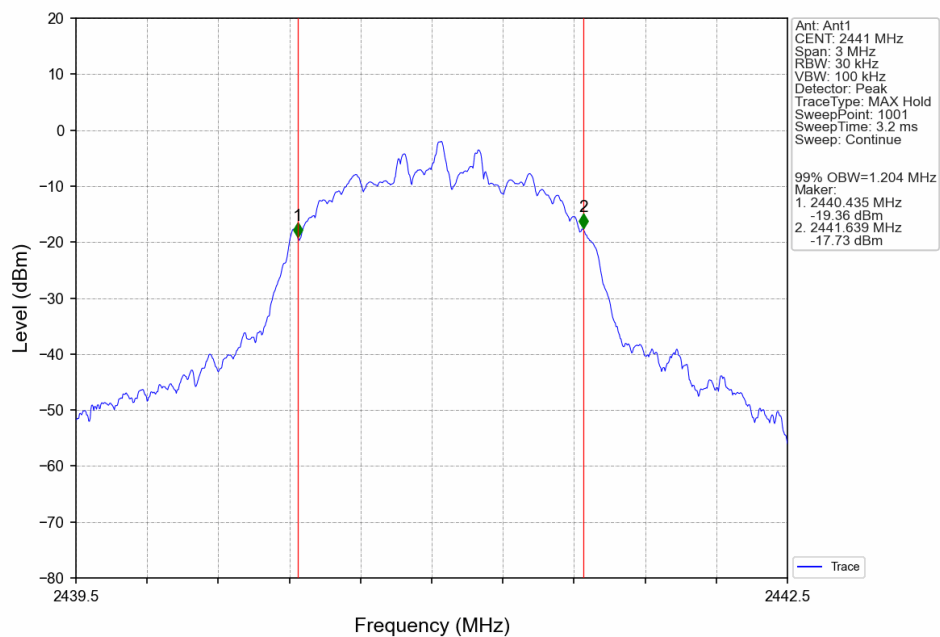
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



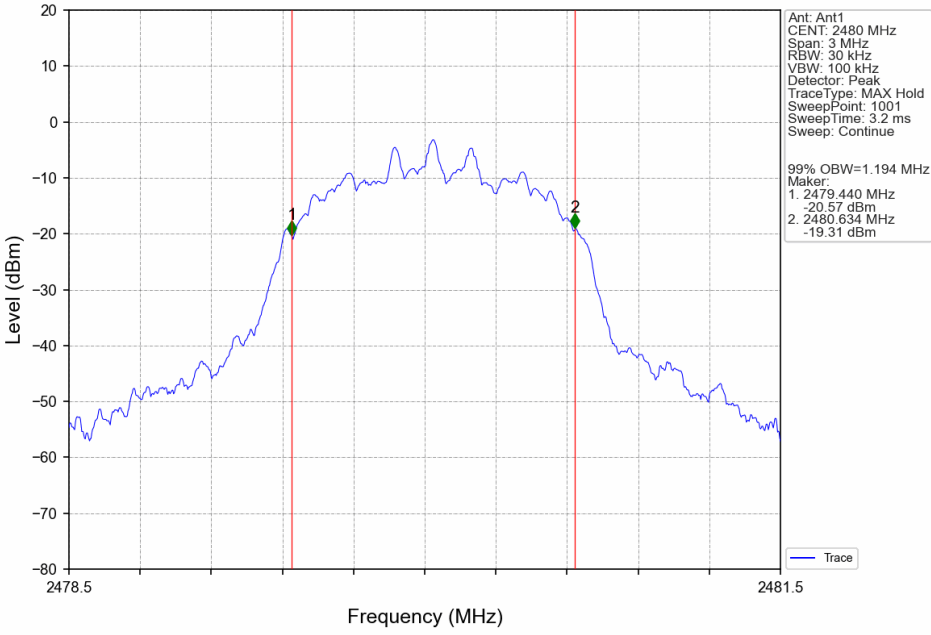
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



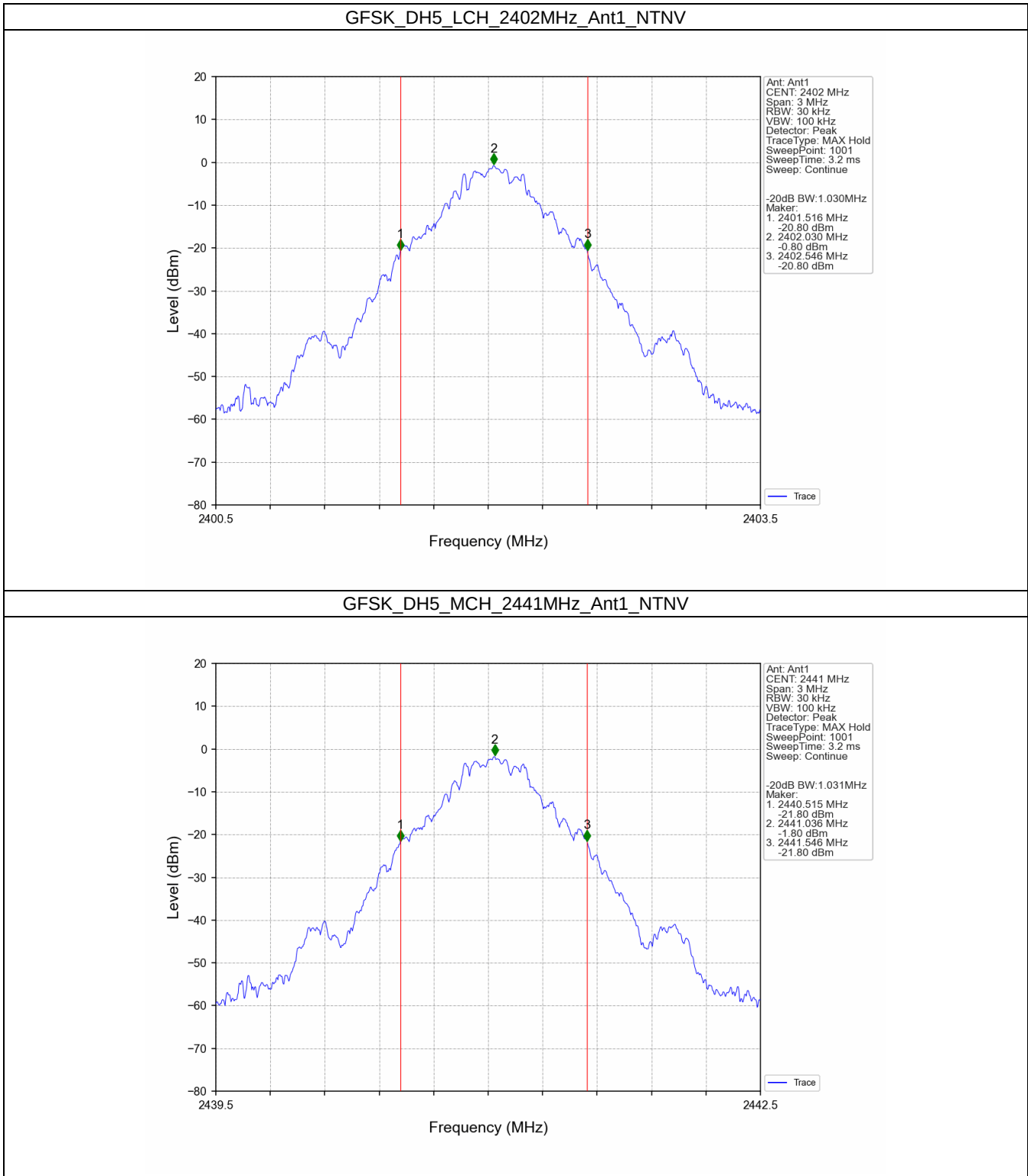
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



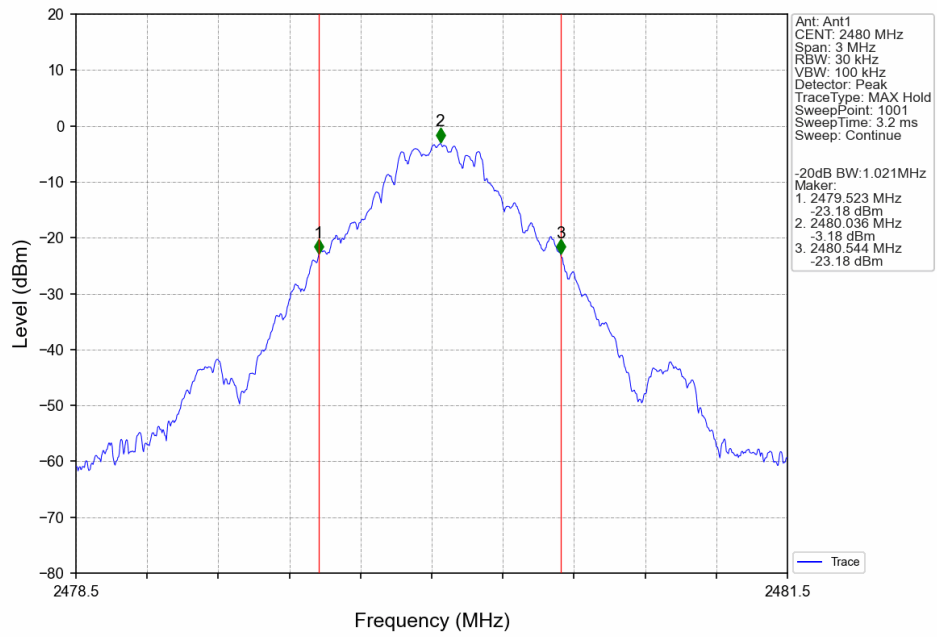
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



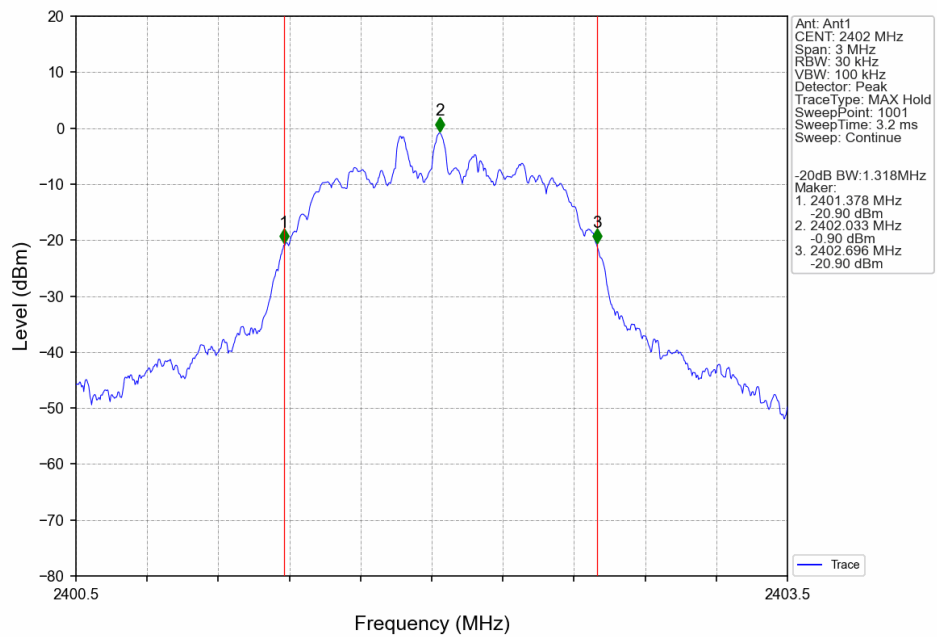
1.2.2 20dB BW



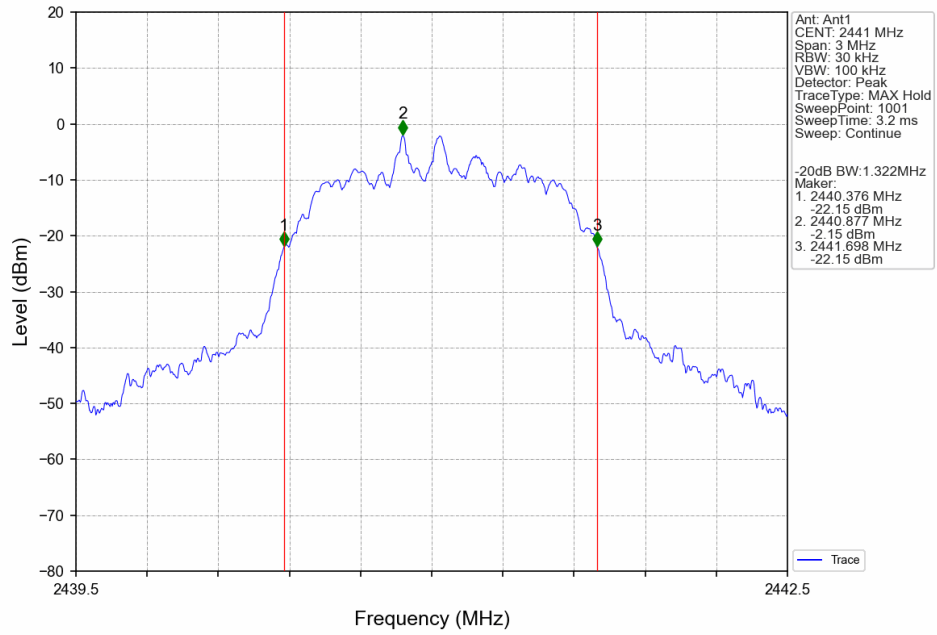
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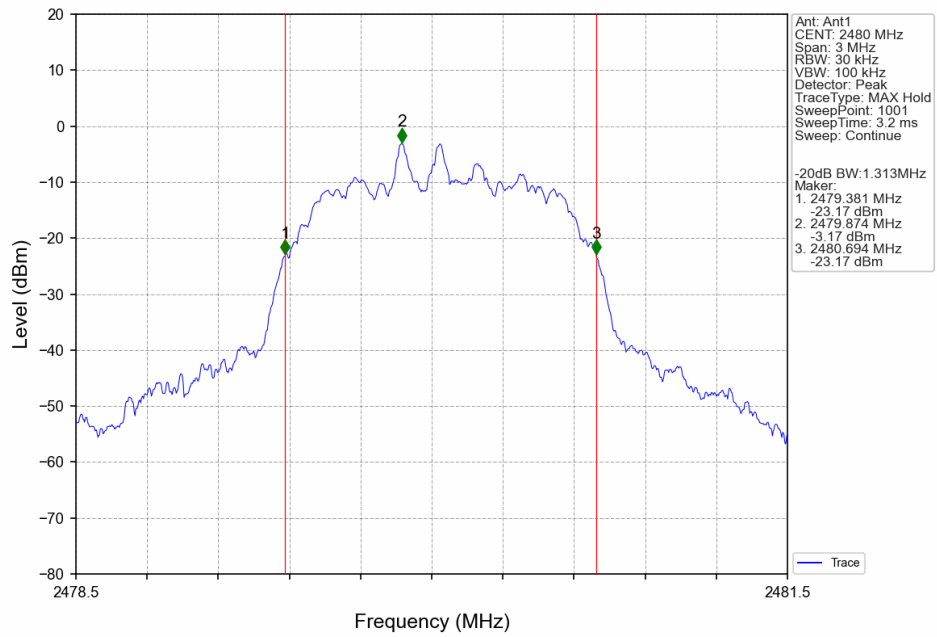
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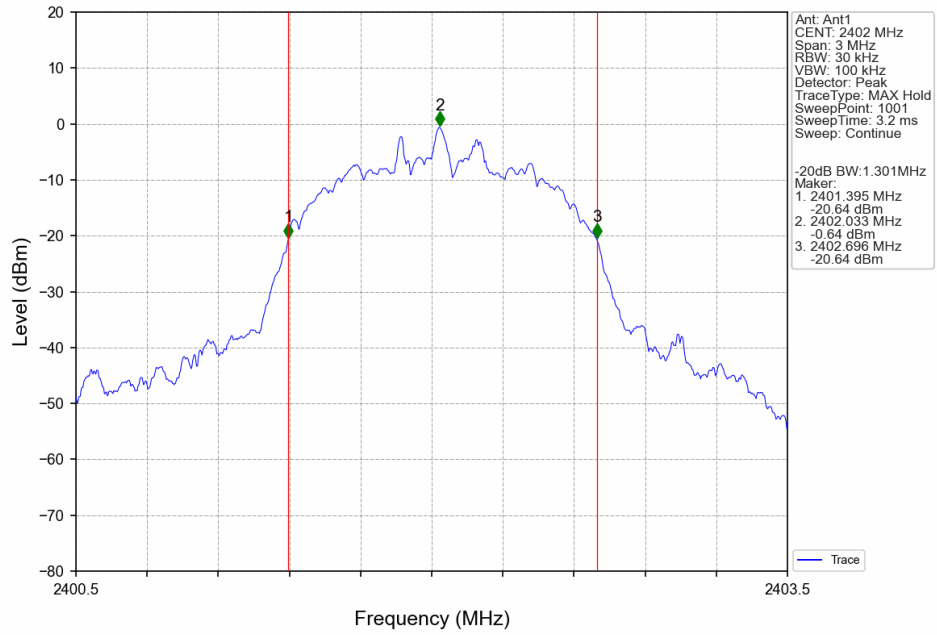
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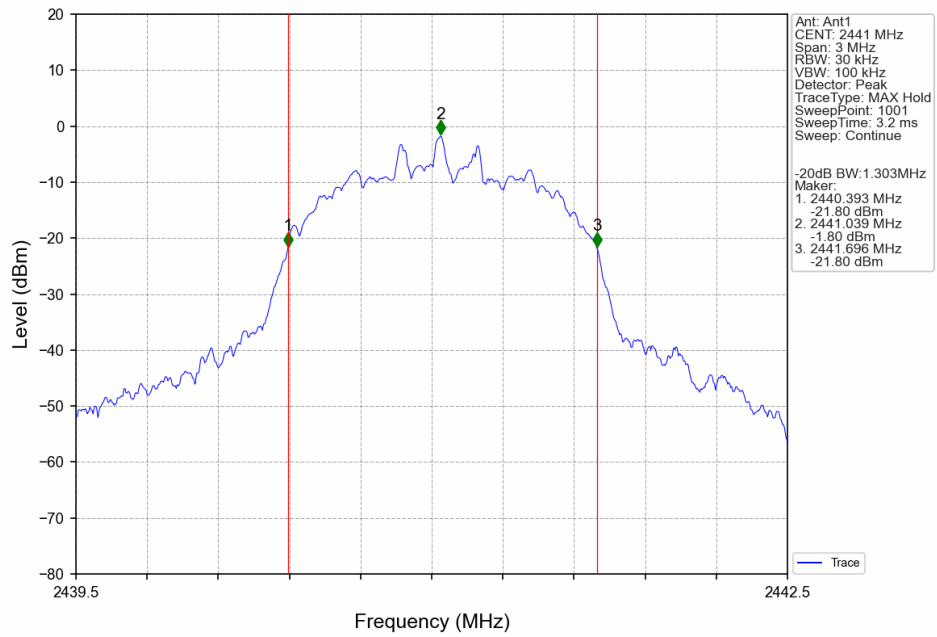
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



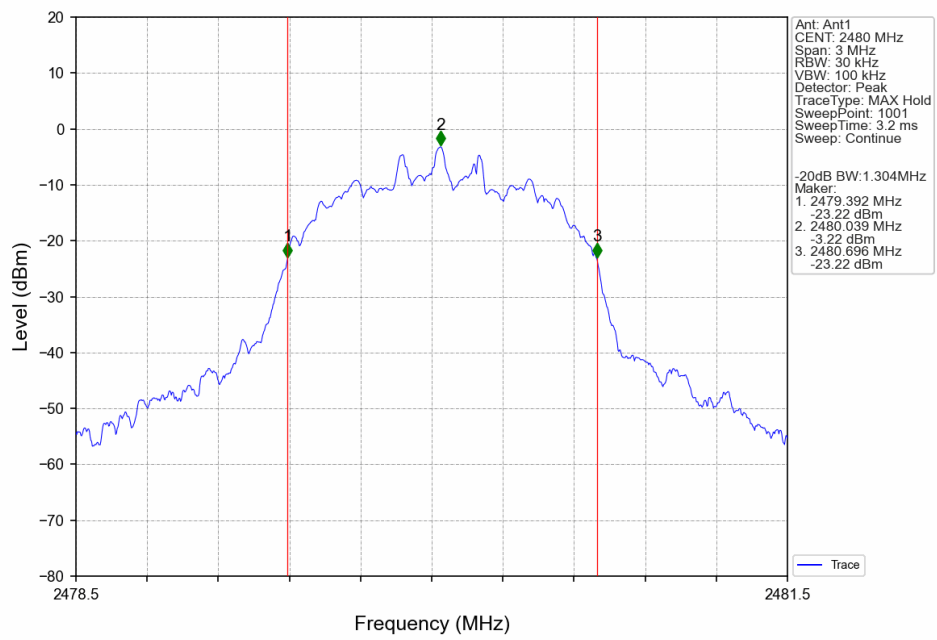
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



2. Maximum Conducted Output Power

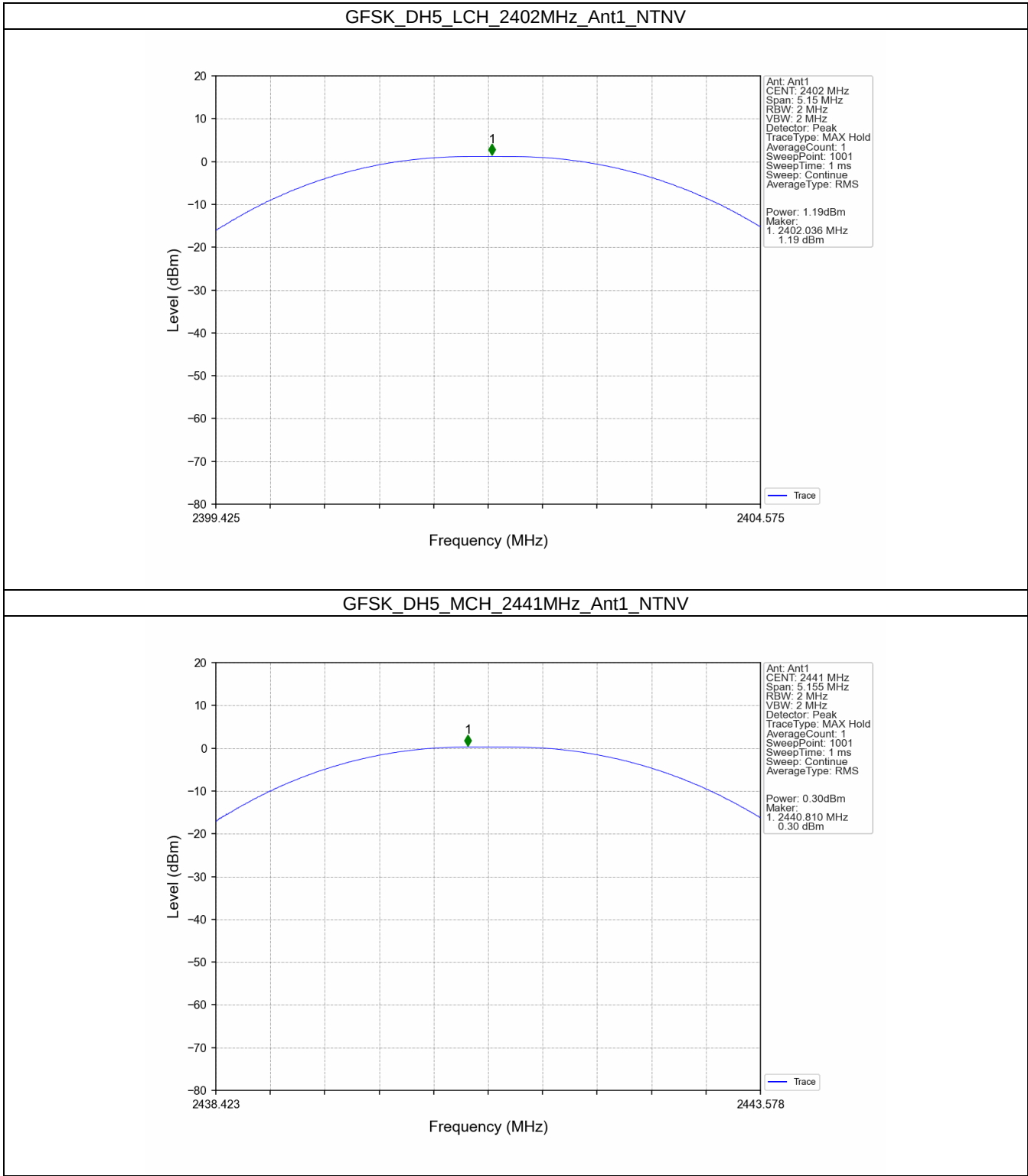
2.1 Test Result

2.1.1 Power

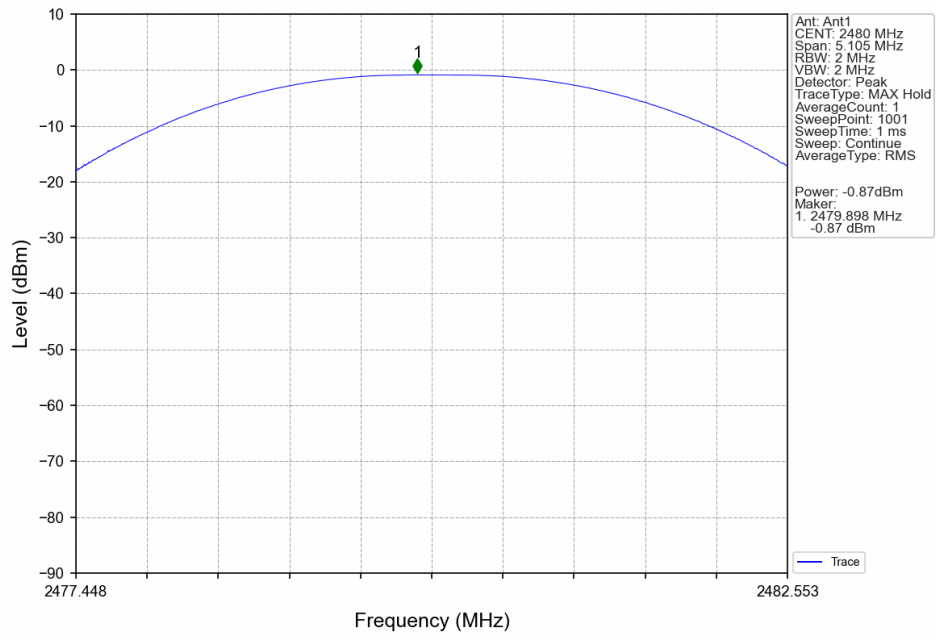
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	1.19	<=20.97	Pass
		2441	DH5	0.30	<=20.97	Pass
		2480	DH5	-0.87	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.05	<=20.97	Pass
		2441	2DH5	1.21	<=20.97	Pass
		2480	2DH5	0.01	<=20.97	Pass
8DPSK	SISO	2402	3DH5	2.47	<=20.97	Pass
		2441	3DH5	1.53	<=20.97	Pass
		2480	3DH5	0.31	<=20.97	Pass

2.2 Test Graph

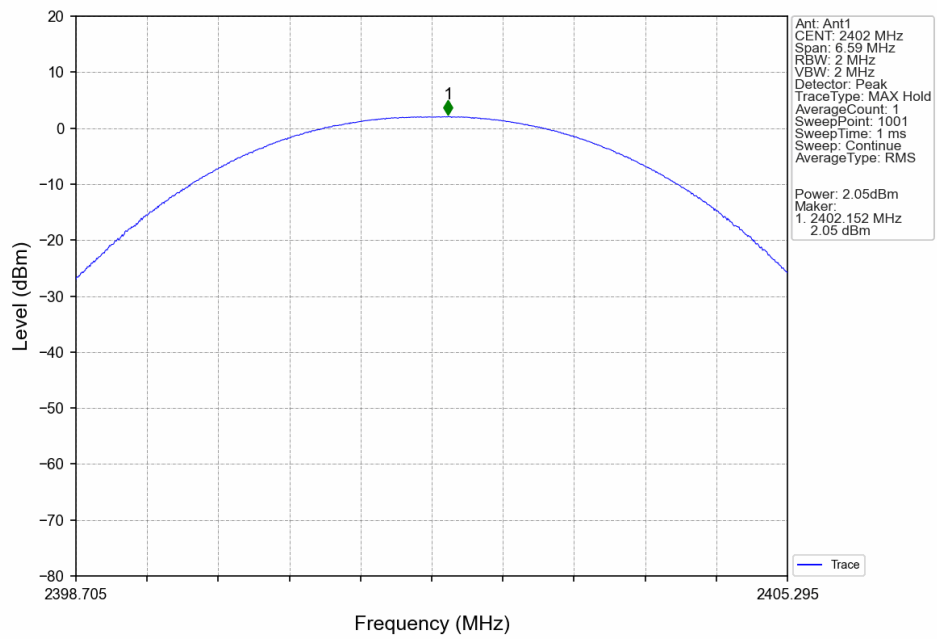
2.2.1 Power



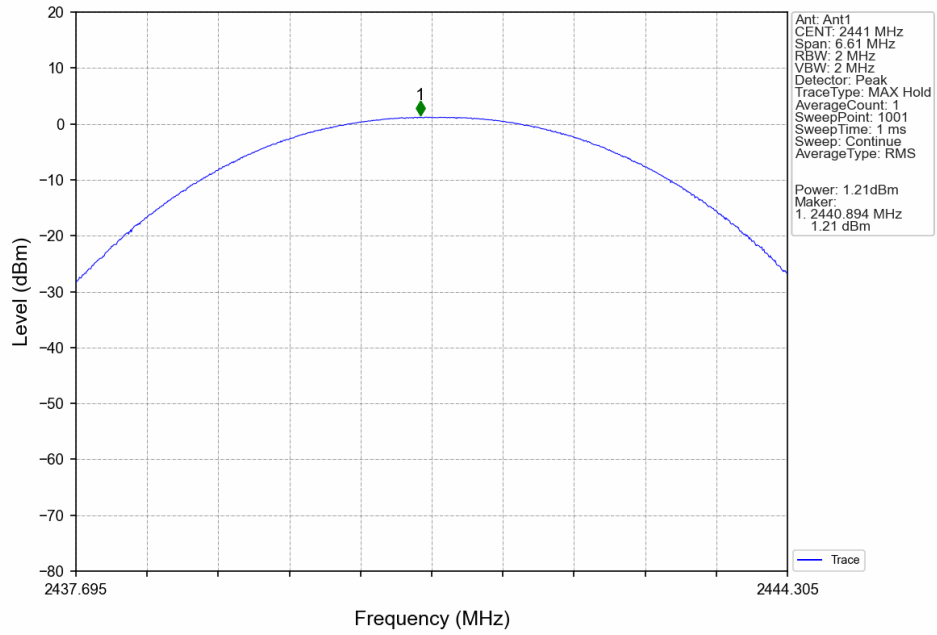
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



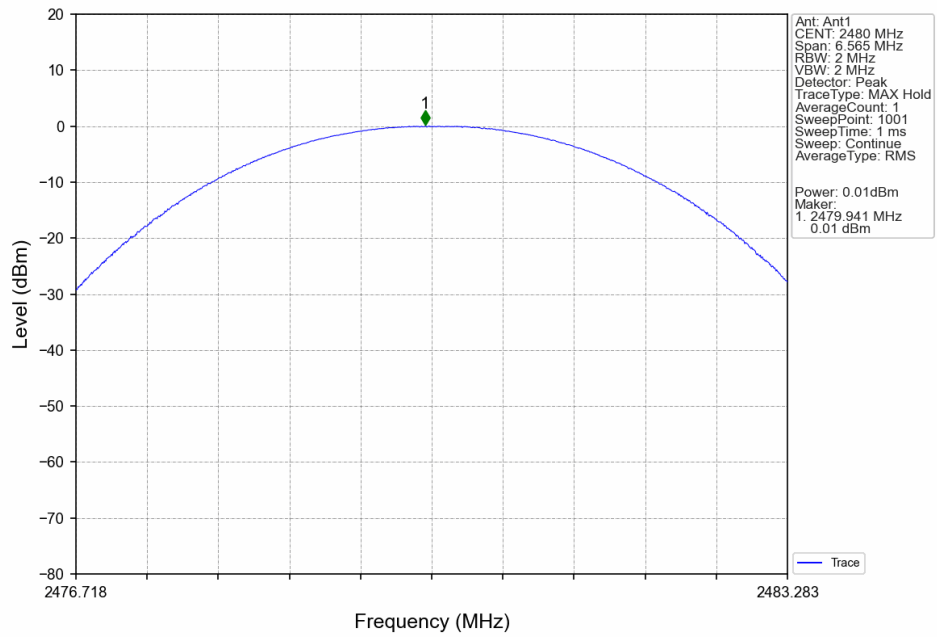
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



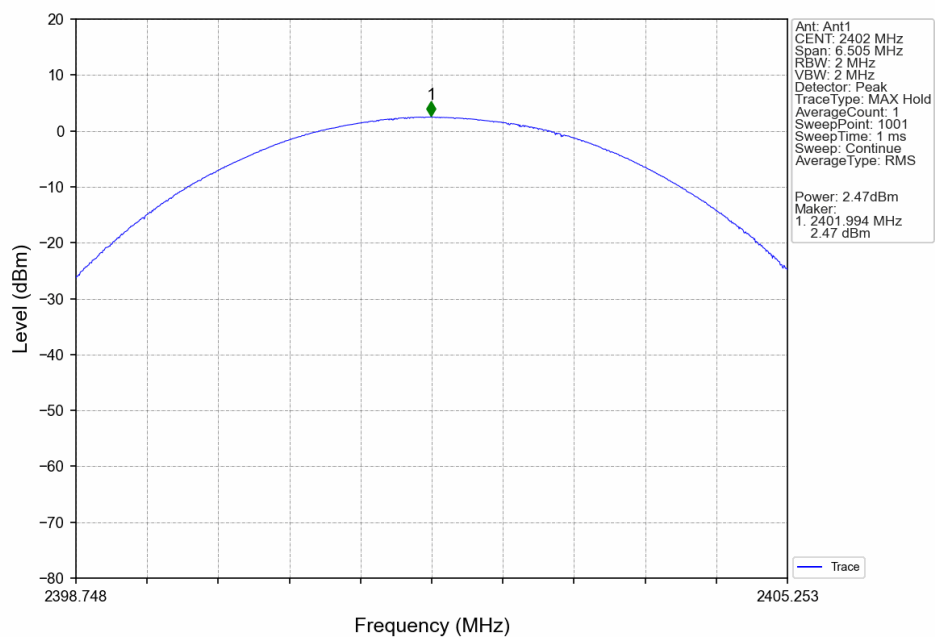
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



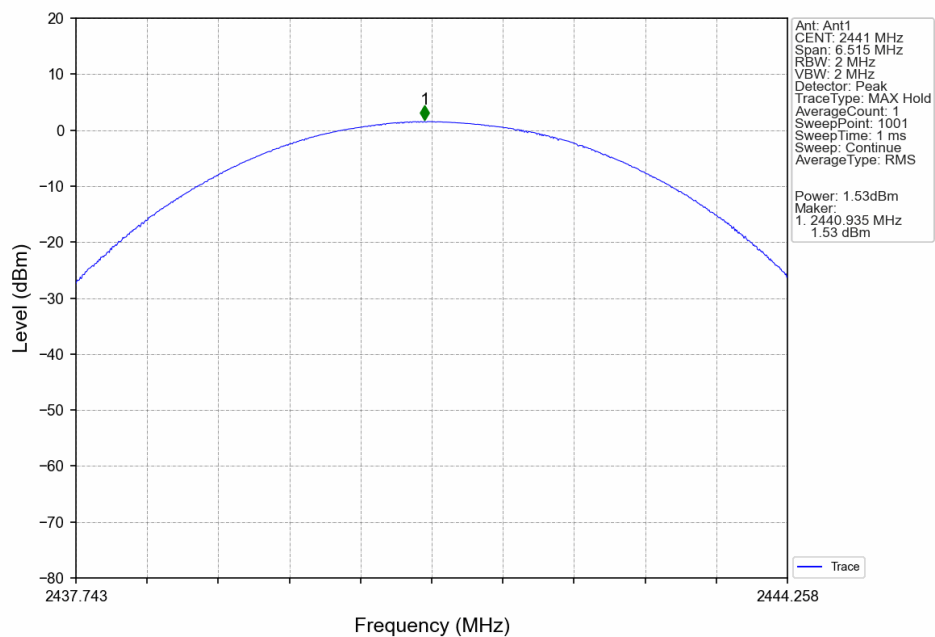
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



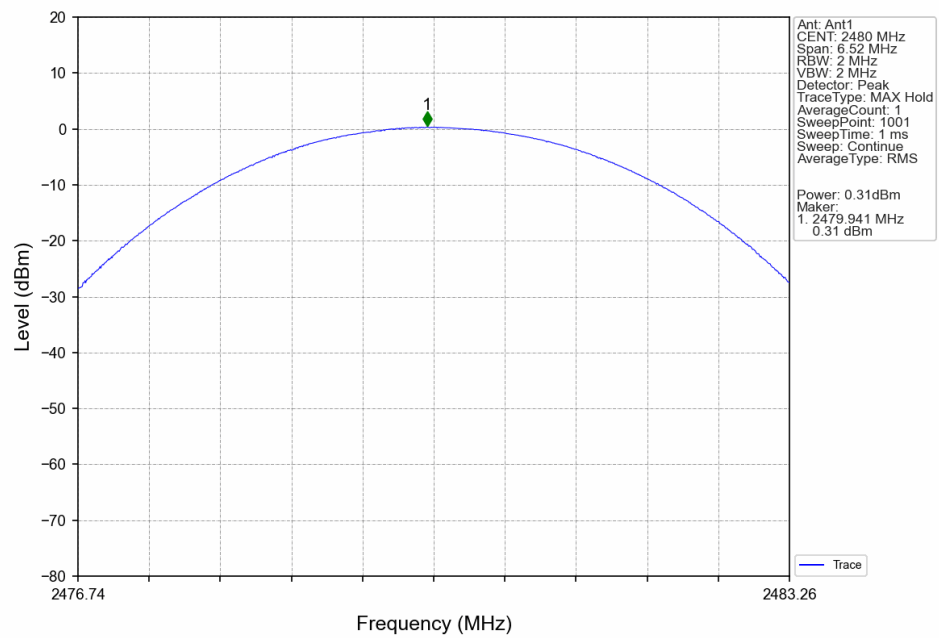
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



3. Carrier Frequency Separation

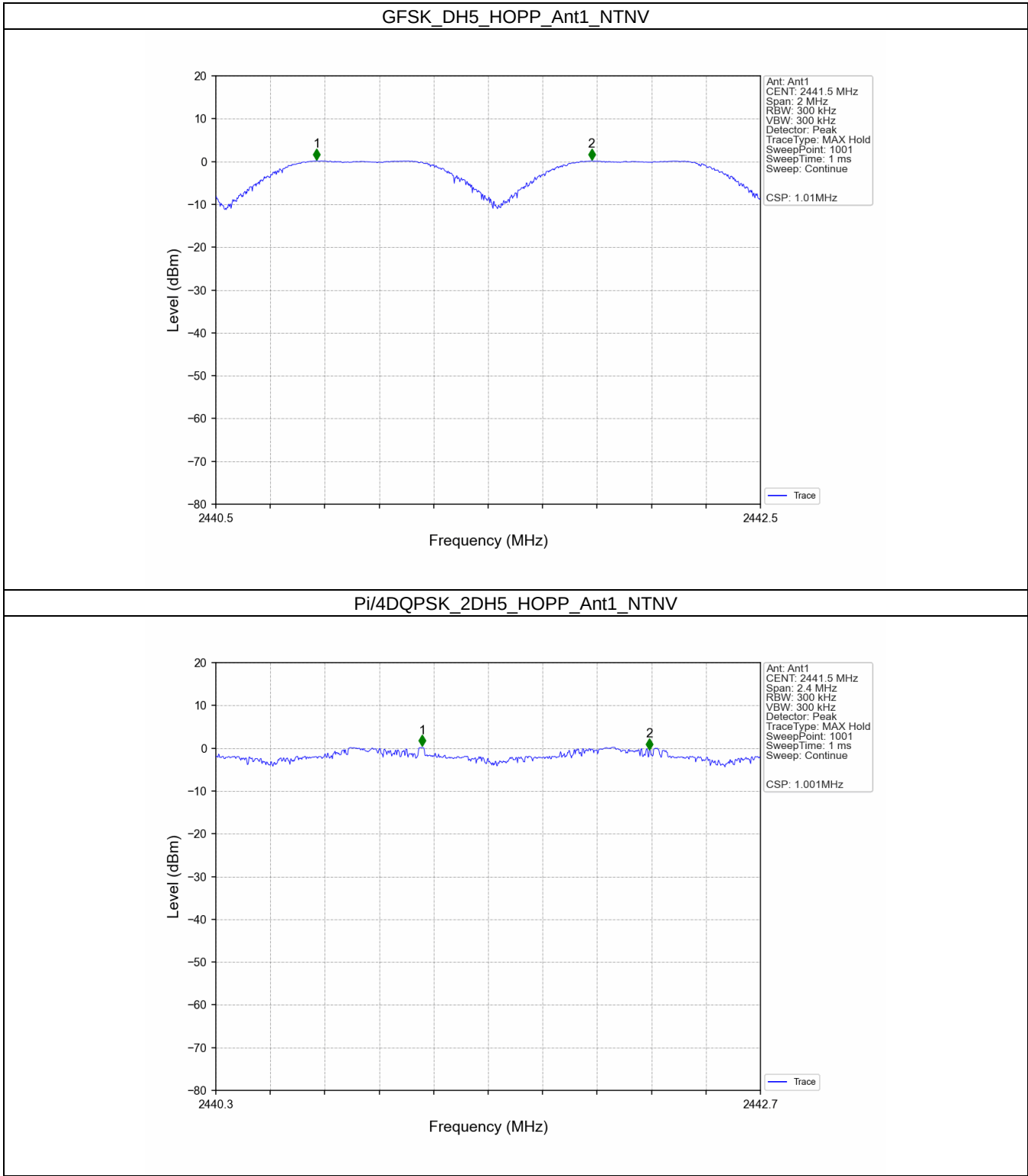
3.1 Test Result

3.1.1 Ant1

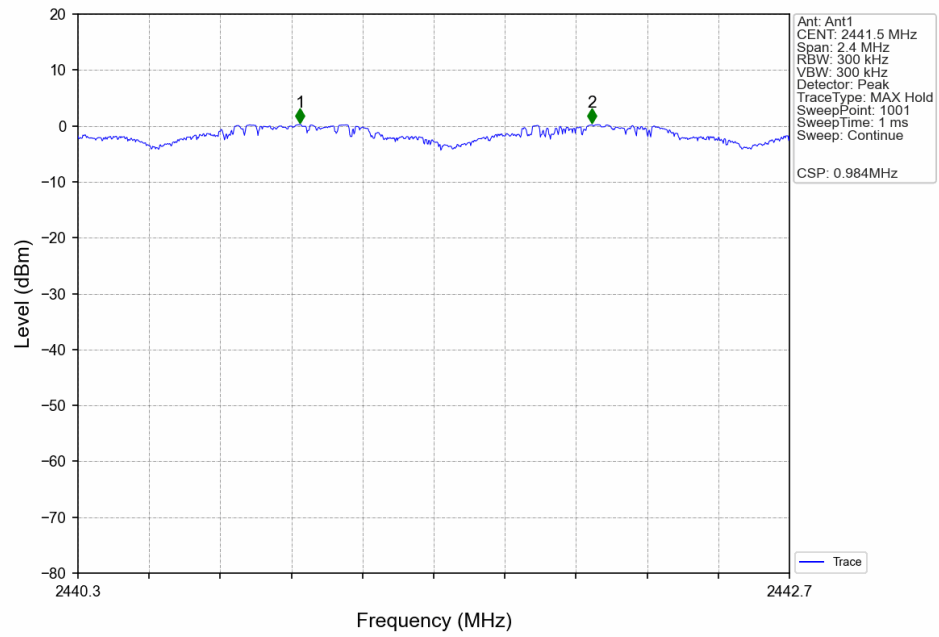
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.010	1.031	≥ 0.687	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.322	≥ 0.881	Pass
8DPSK	SISO	HOPP	3DH5	0.984	1.304	≥ 0.869	Pass

3.2 Test Graph

3.2.1 Ant1



8DPSK_3DH5_HOPP_Ant1_NTNV



4. Number of Hopping Frequencies

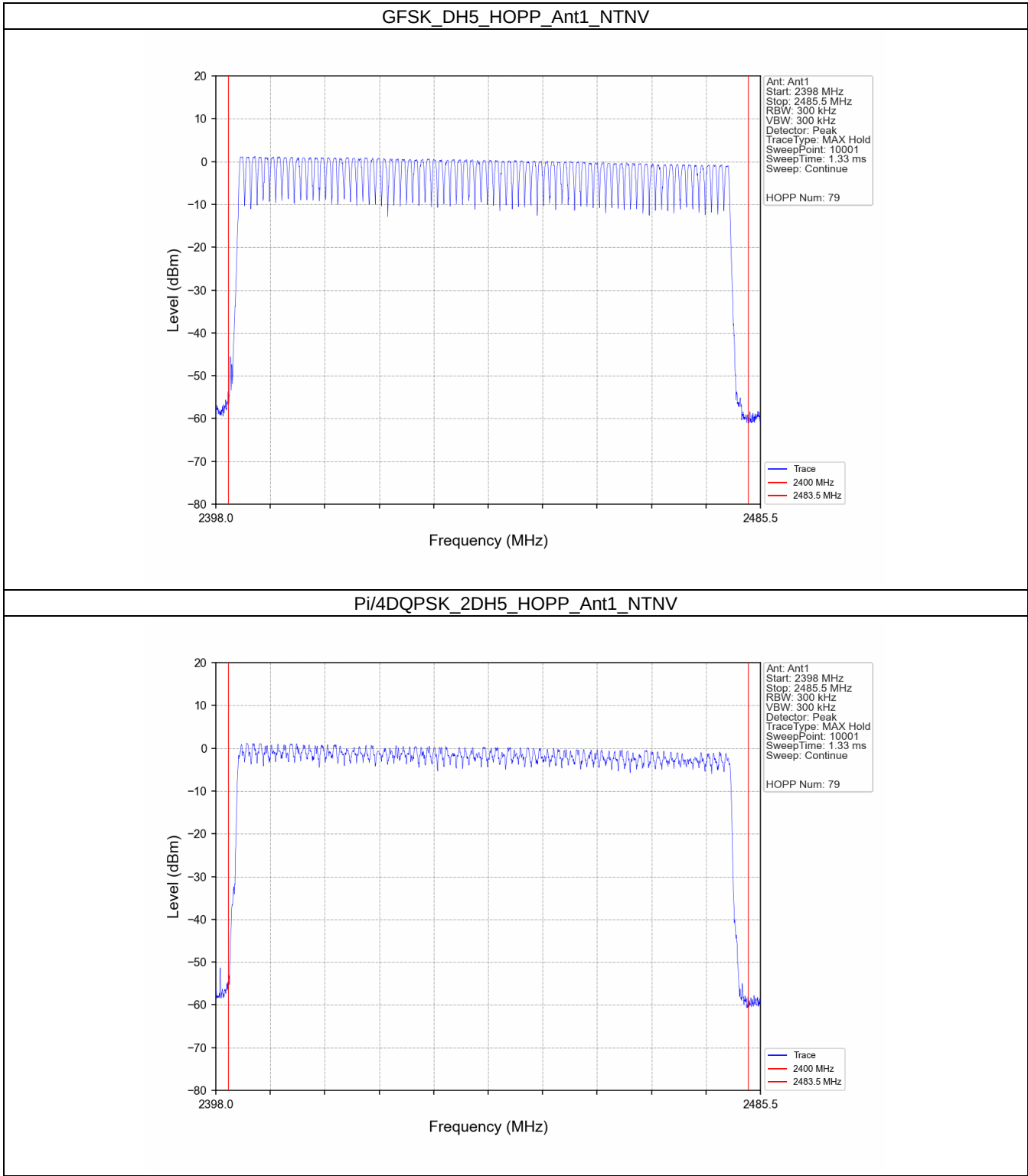
4.1 Test Result

4.1.1 HoppNum

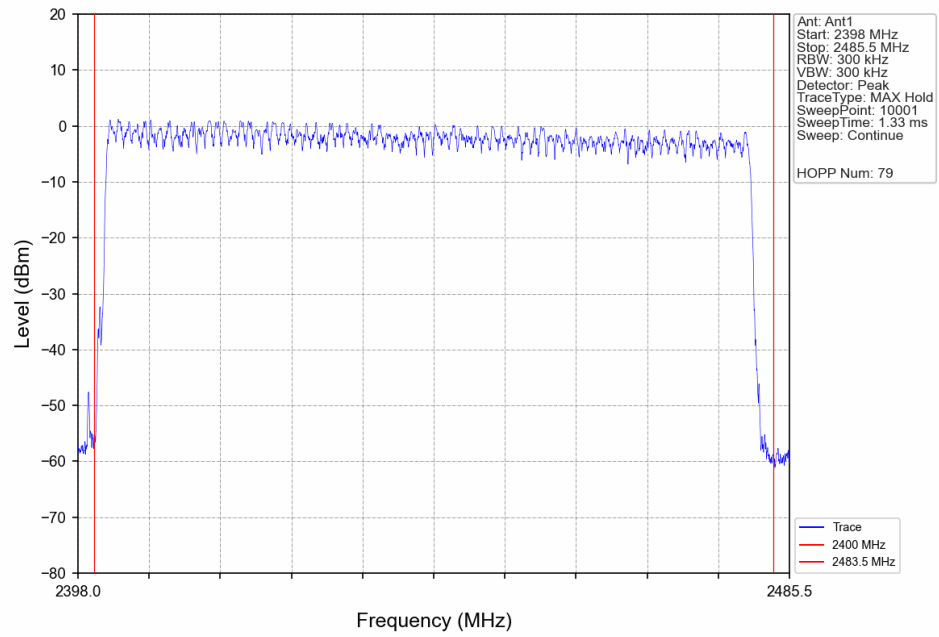
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

4.2 Test Graph

4.2.1 HoppNum



8DPSK_3DH5_HOPP_Ant1_NTNV



5. Time of Occupancy (Dwell Time)

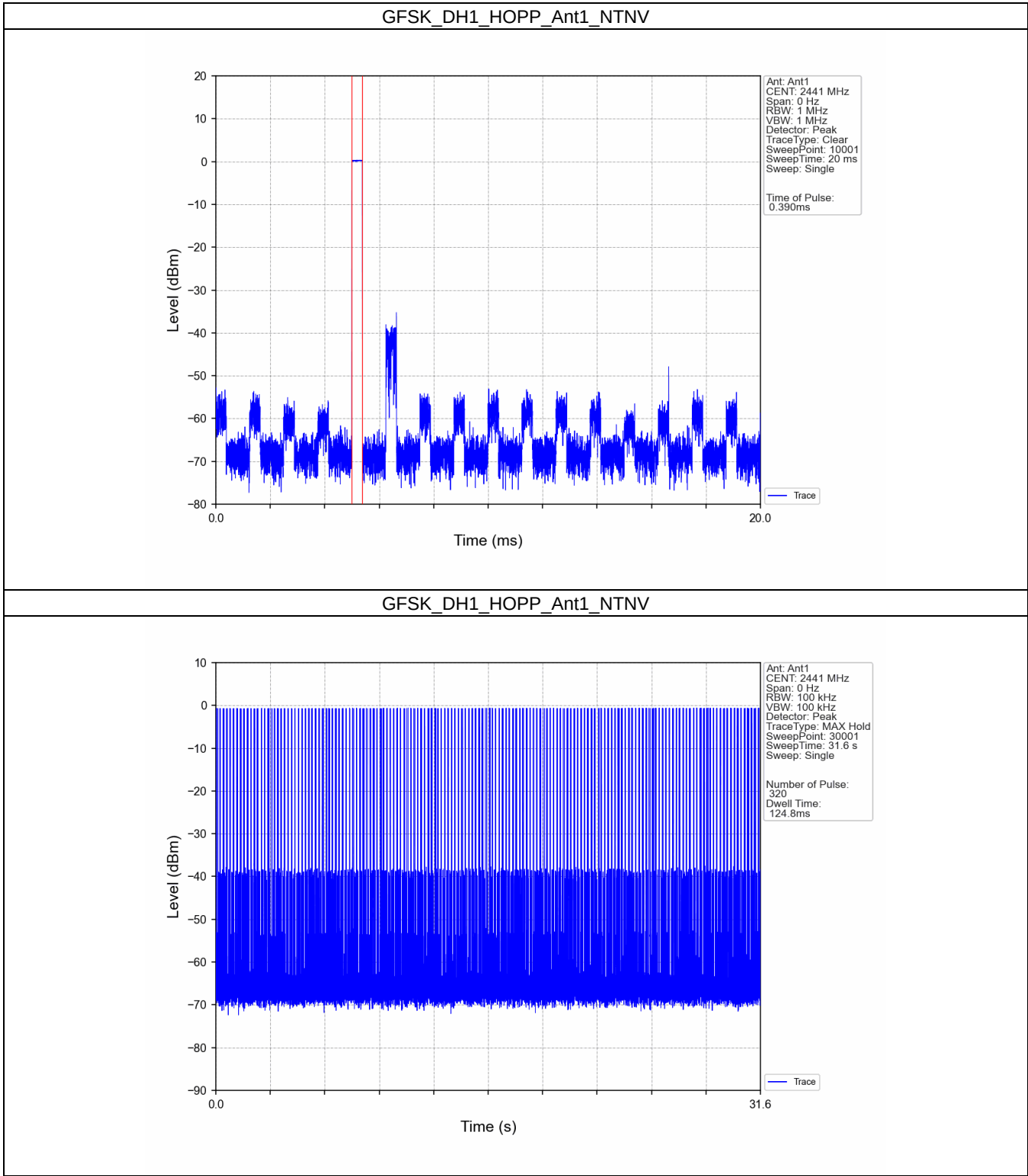
5.1 Test Result

5.1.1 Ant1

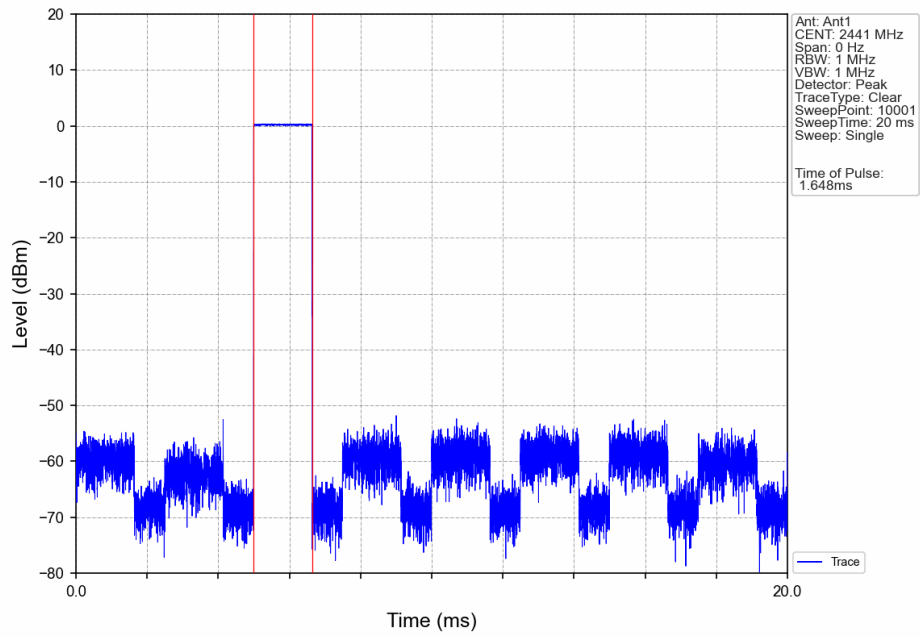
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.390	31.600	320	124.800	<=400	Pass
			DH3	1.648	31.600	164	270.272	<=400	Pass
			DH5	2.896	31.600	100	289.600	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.394	31.600	319	125.686	<=400	Pass
			2DH3	1.654	31.600	155	256.370	<=400	Pass
			2DH5	2.902	31.600	122	354.044	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.400	31.600	318	127.200	<=400	Pass
			3DH3	1.652	31.600	156	257.712	<=400	Pass
			3DH5	2.904	31.600	110	319.440	<=400	Pass

5.2 Test Graph

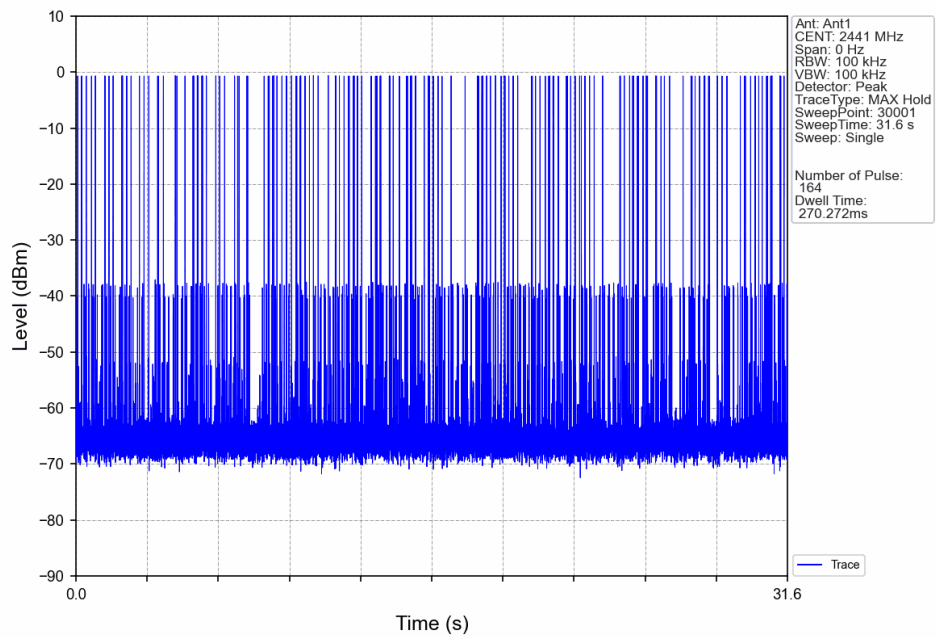
5.2.1 Ant1



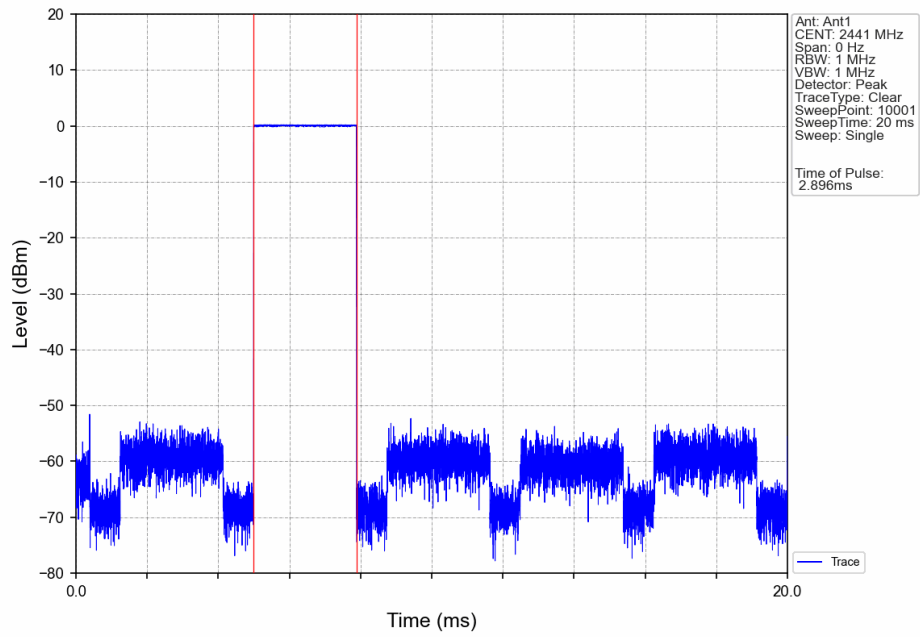
GFSK_DH3_HOPP_Ant1_NTNV



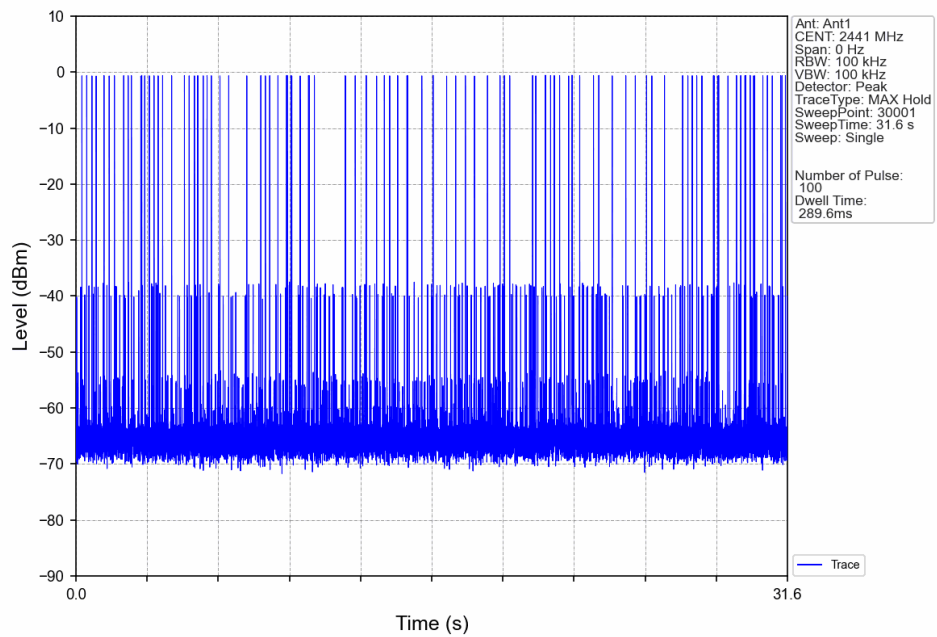
GFSK_DH3_HOPP_Ant1_NTNV



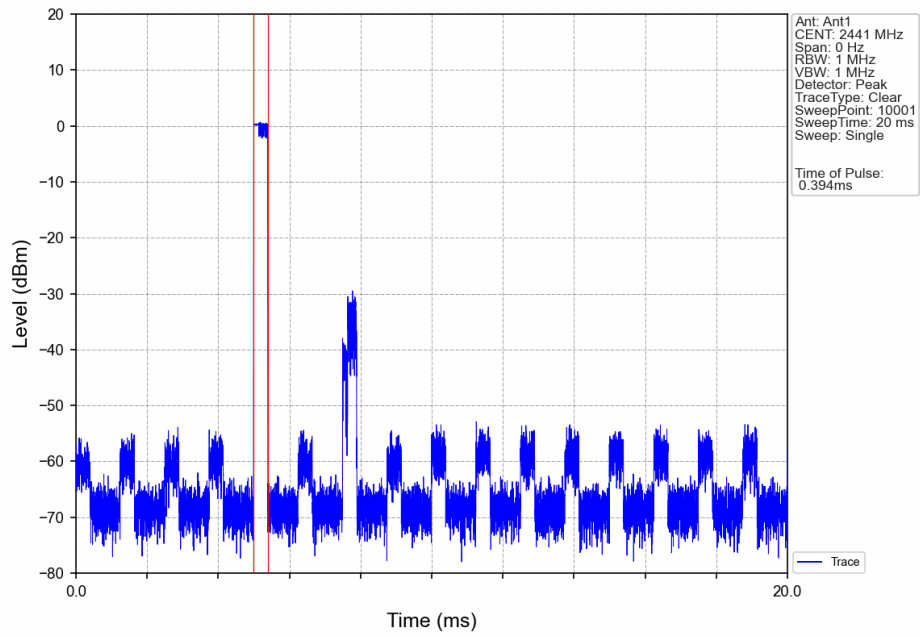
GFSK_DH5_HOPP_Ant1_NTNV



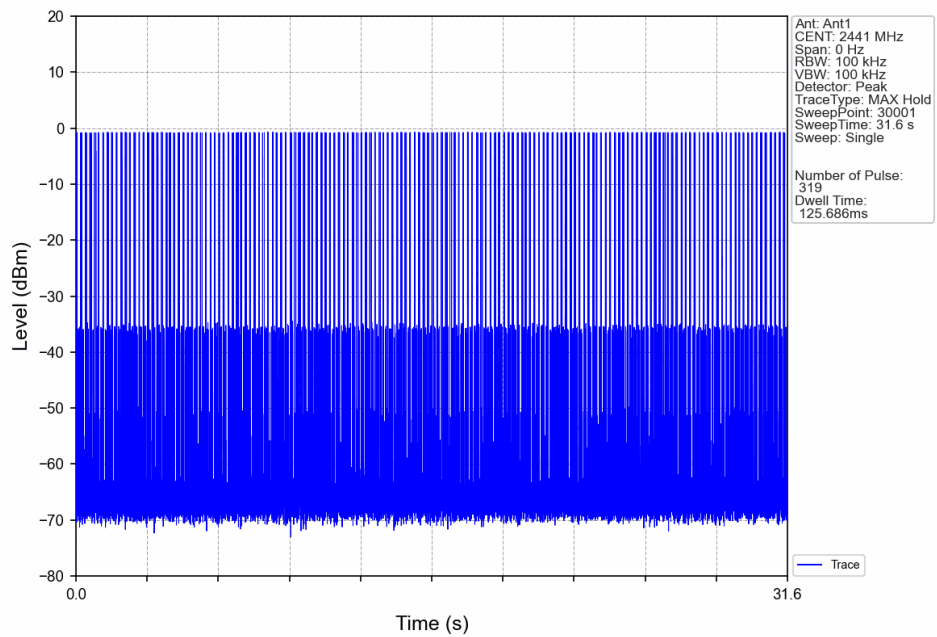
GFSK_DH5_HOPP_Ant1_NTNV



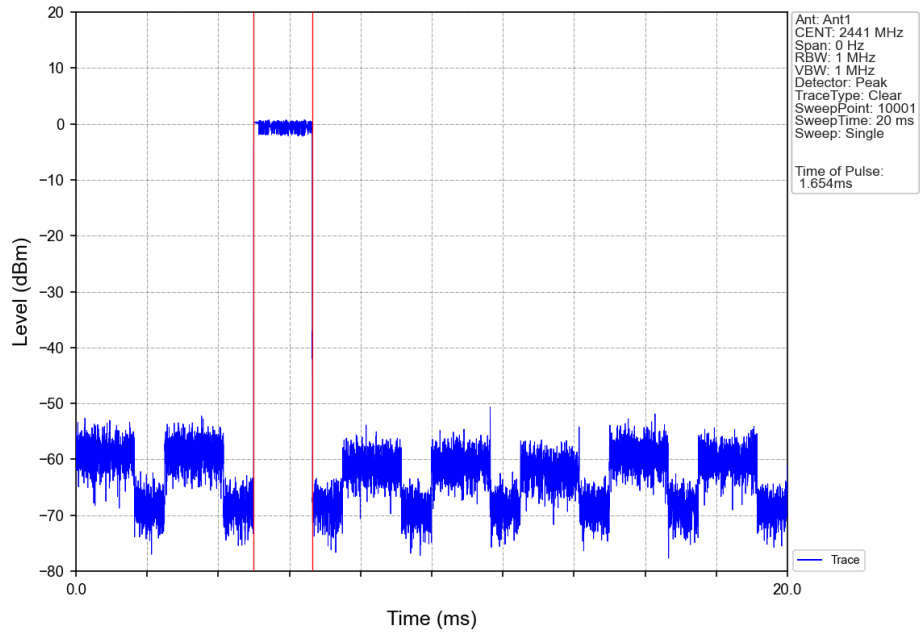
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



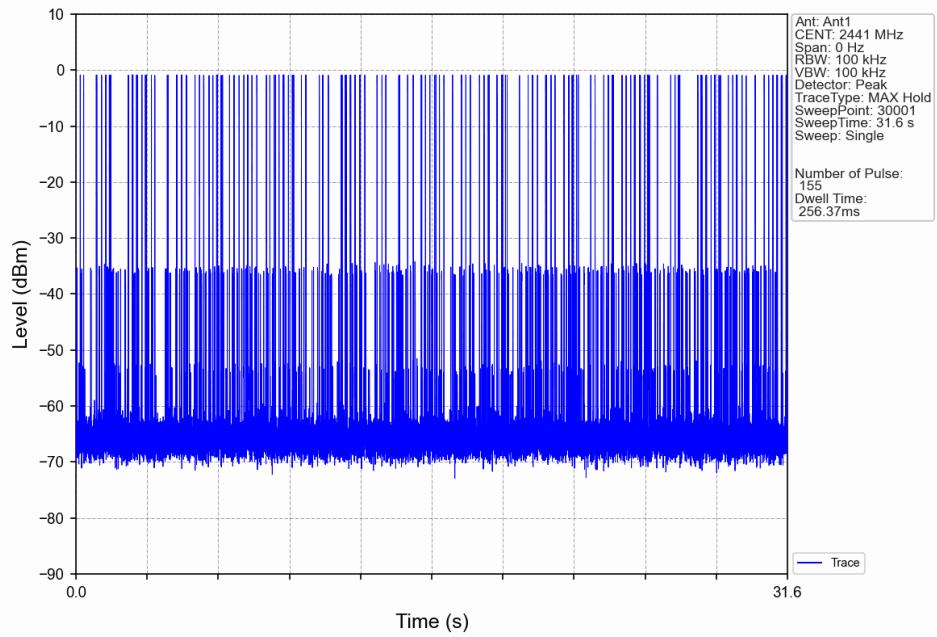
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



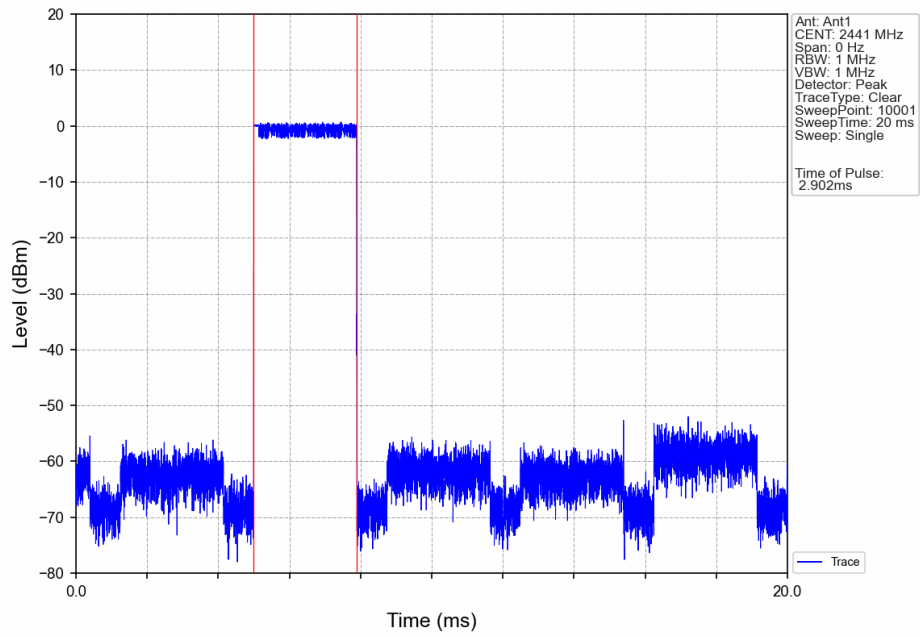
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



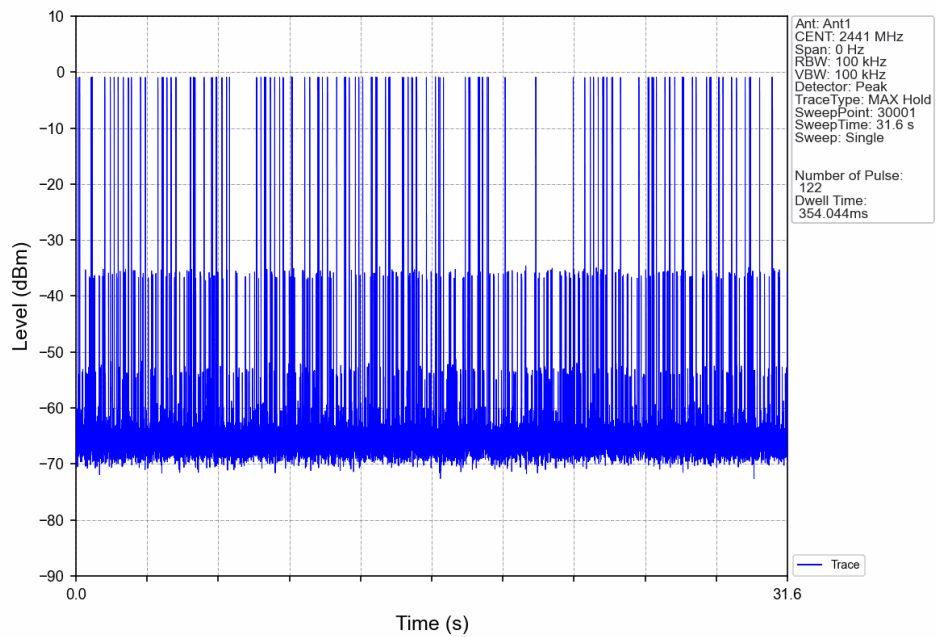
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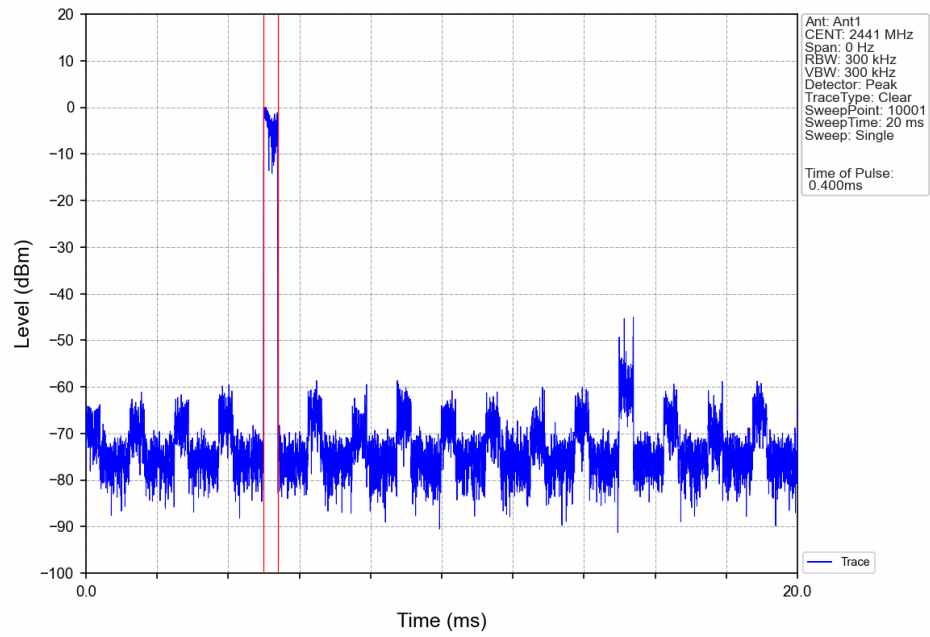
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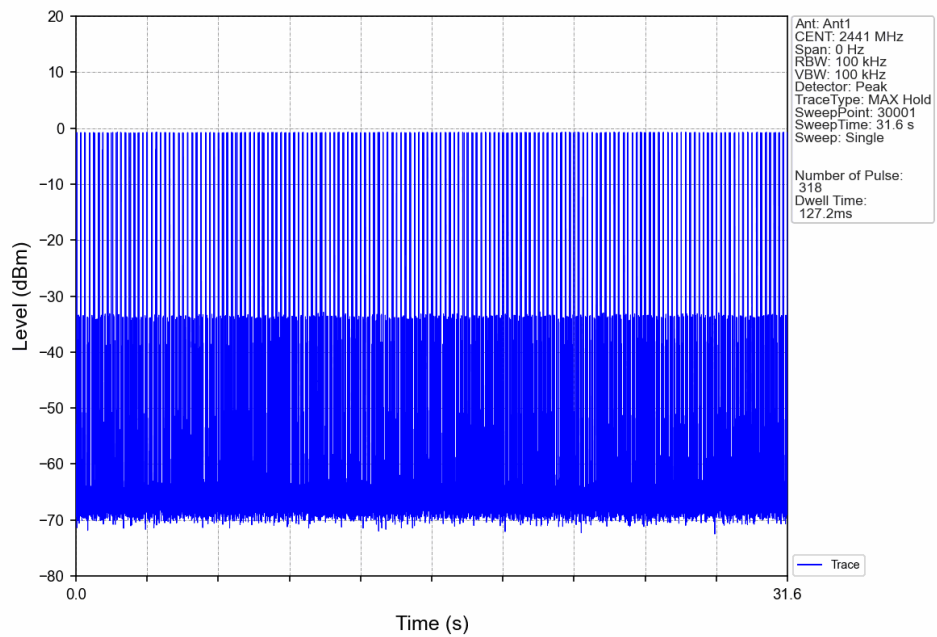
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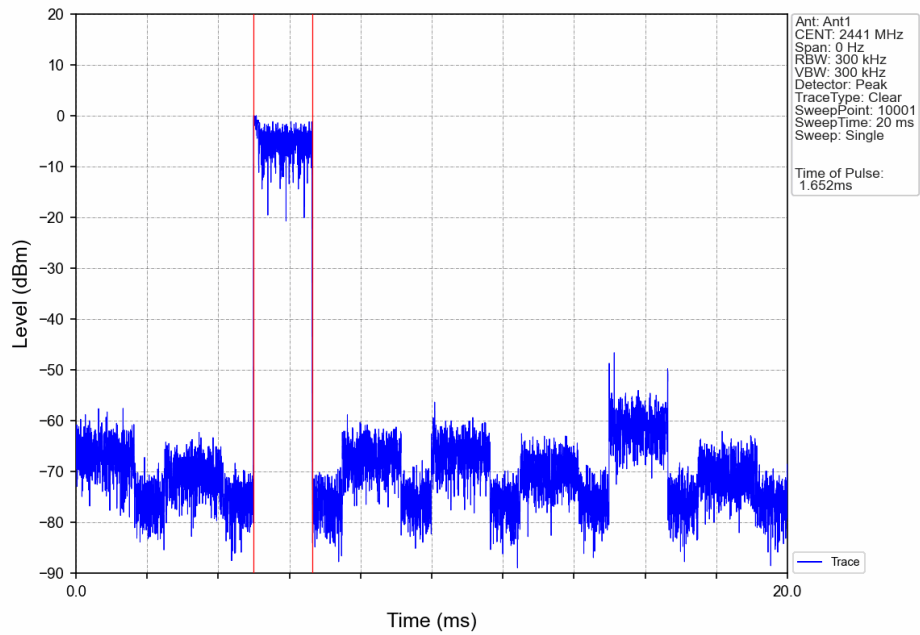
8DPSK_3DH1_HOPP_Ant1_NTNV



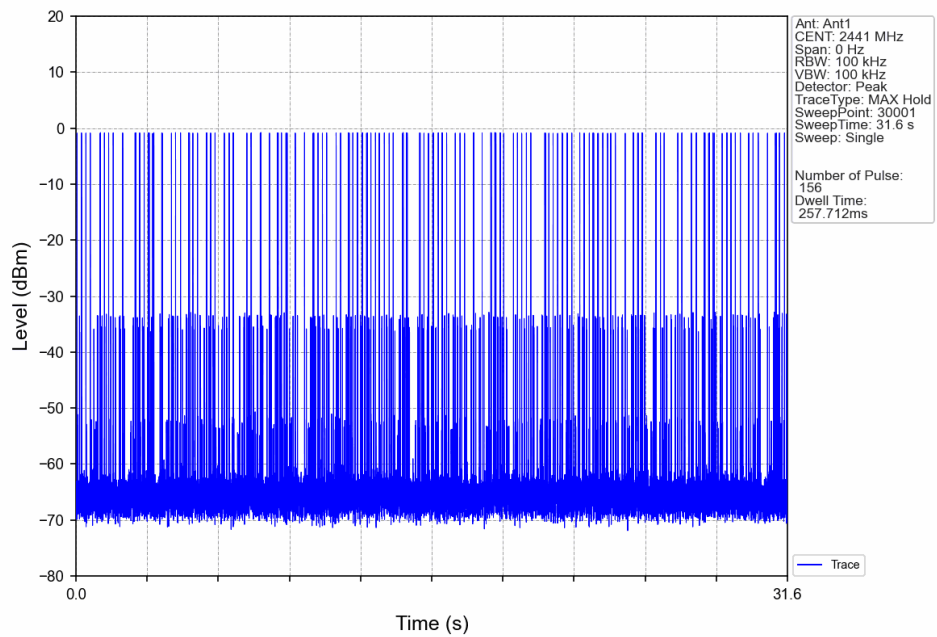
8DPSK_3DH1_HOPP_Ant1_NTNV



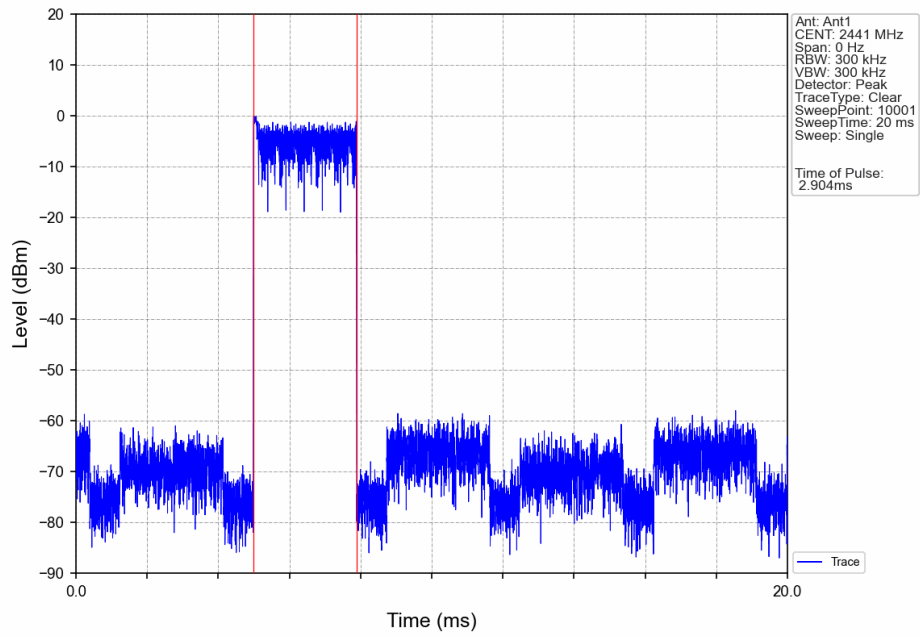
8DPSK_3DH3_HOPP_Ant1_NTNV



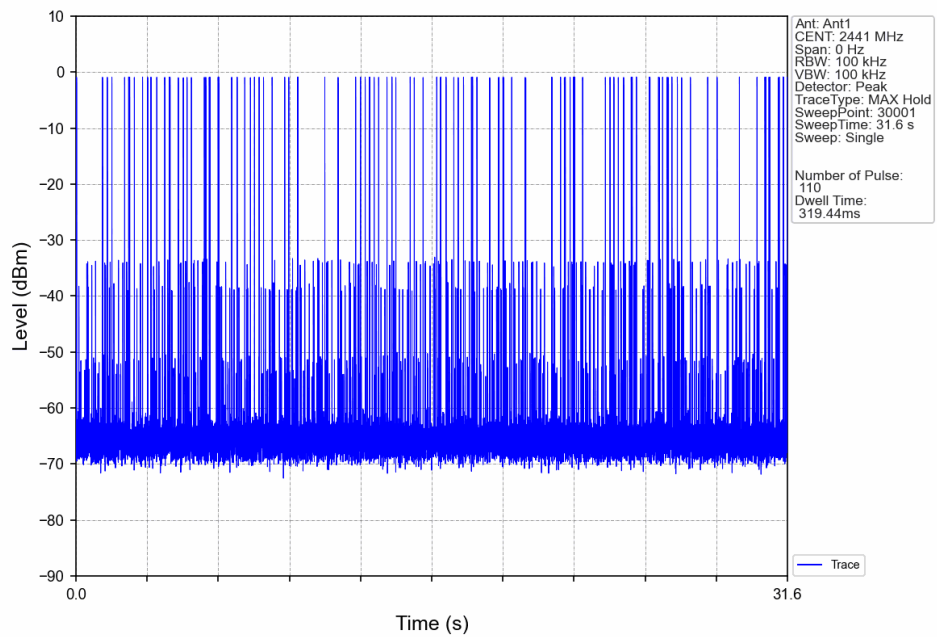
8DPSK_3DH3_HOPP_Ant1_NTNV



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

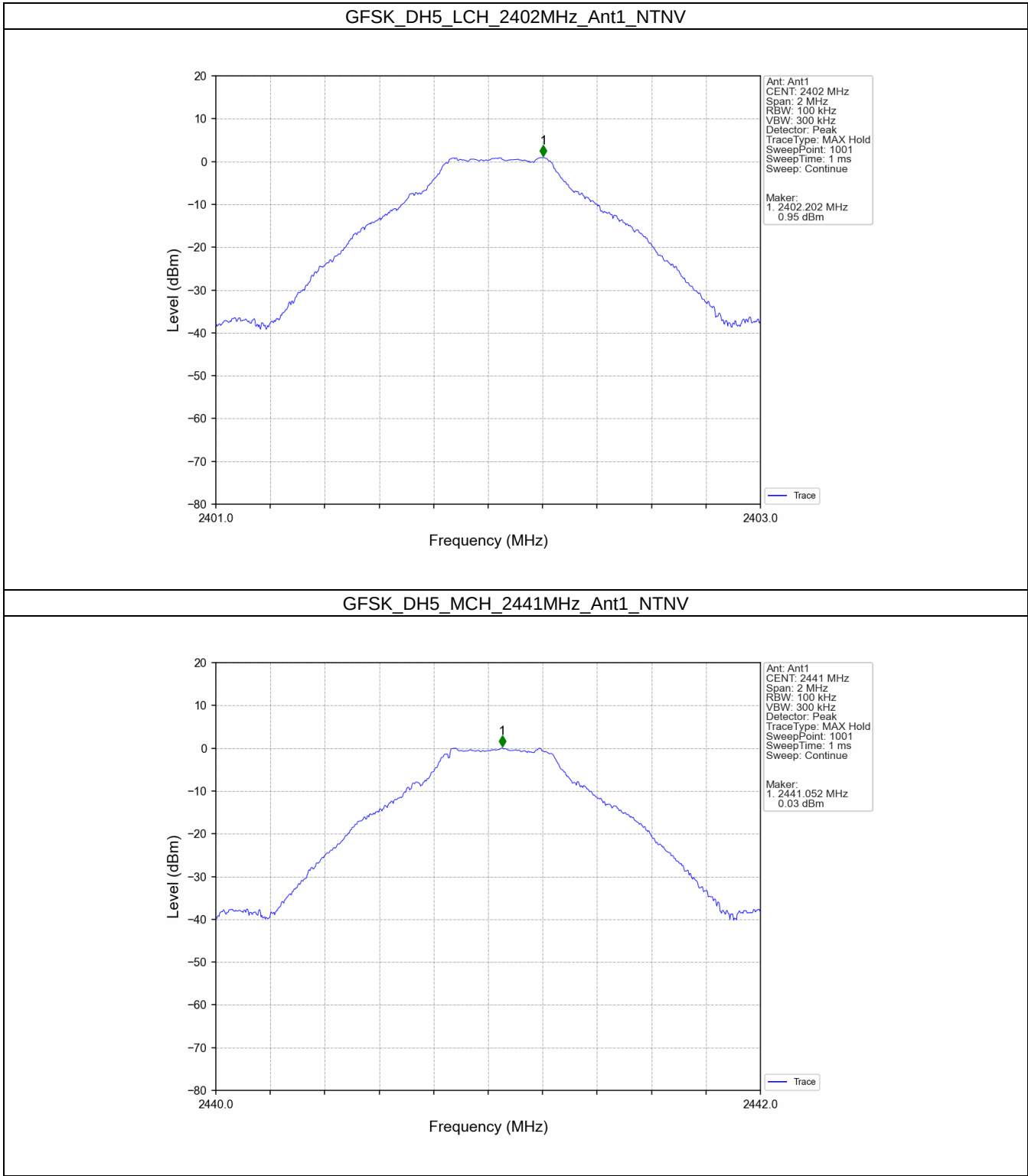
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	0.95
		2441	DH5	1	0.03
		2480	DH5	1	-1.09
		HOPP	DH5	1	0.88
					0.88
Pi/4DQPSK	SISO	2402	2DH5	1	0.89
		2441	2DH5	1	0.16
		2480	2DH5	1	-1.11
		HOPP	2DH5	1	0.92
					0.92
8DPSK	SISO	2402	3DH5	1	1.00
		2441	3DH5	1	0.06
		2480	3DH5	1	-1.12
		HOPP	3DH5	1	0.65
					0.65

6.1.2 CSE

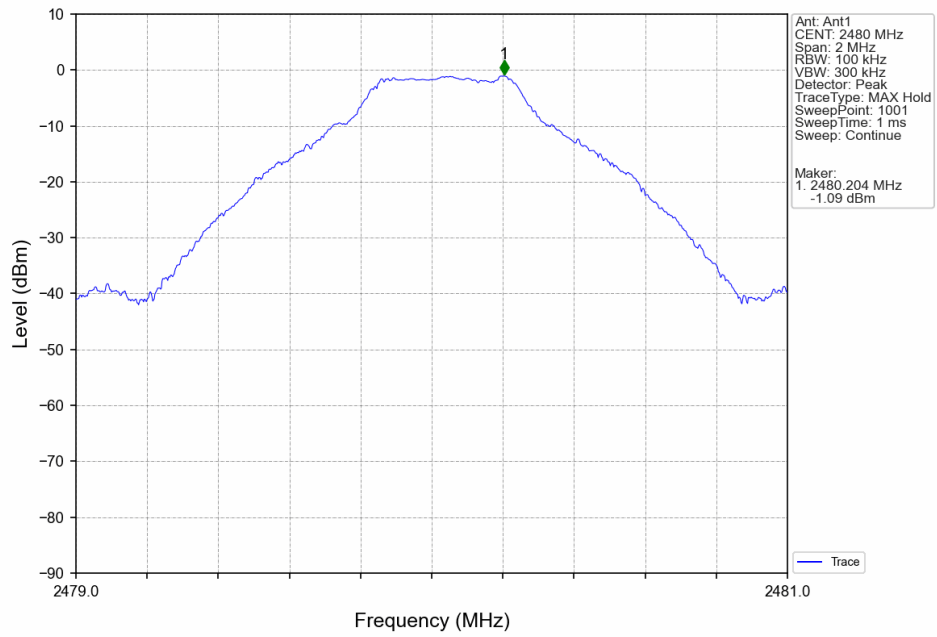
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	0.95	-19.05	Pass
		2441	DH5	1	0.03	-19.97	Pass
		2480	DH5	1	-1.09	-21.09	Pass
		HOPP	DH5	1	0.88	-19.12	Pass
					0.88	-19.12	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	0.89	-19.11	Pass
		2441	2DH5	1	0.16	-19.84	Pass
		2480	2DH5	1	-1.11	-21.11	Pass
		HOPP	2DH5	1	0.92	-19.08	Pass
					0.92	-19.08	Pass
8DPSK	SISO	2402	3DH5	1	1.00	-19.00	Pass
		2441	3DH5	1	0.06	-19.94	Pass
		2480	3DH5	1	-1.12	-21.12	Pass
		HOPP	3DH5	1	0.65	-19.35	Pass
					0.65	-19.35	Pass

6.2 Test Graph

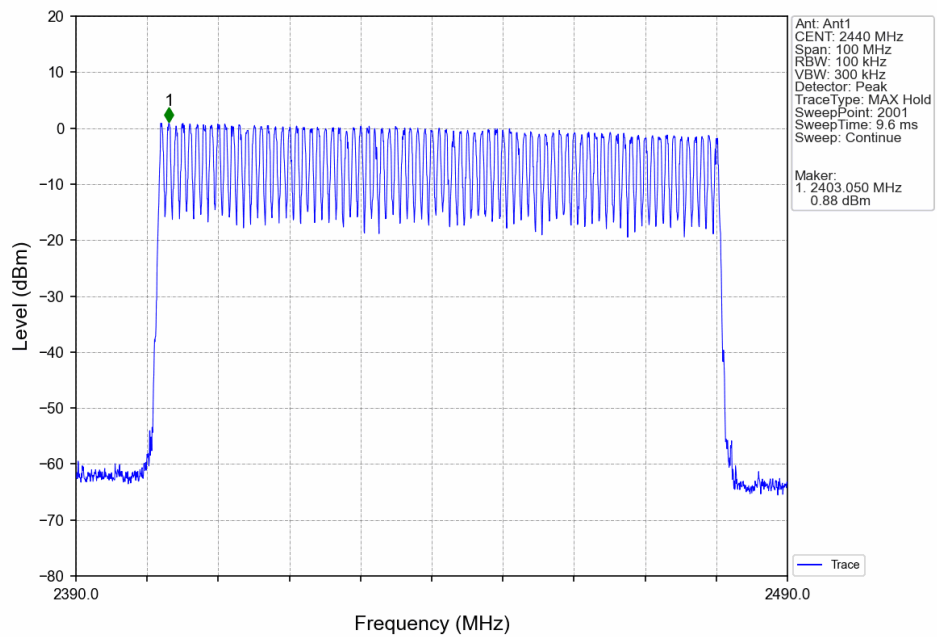
6.2.1 Ref



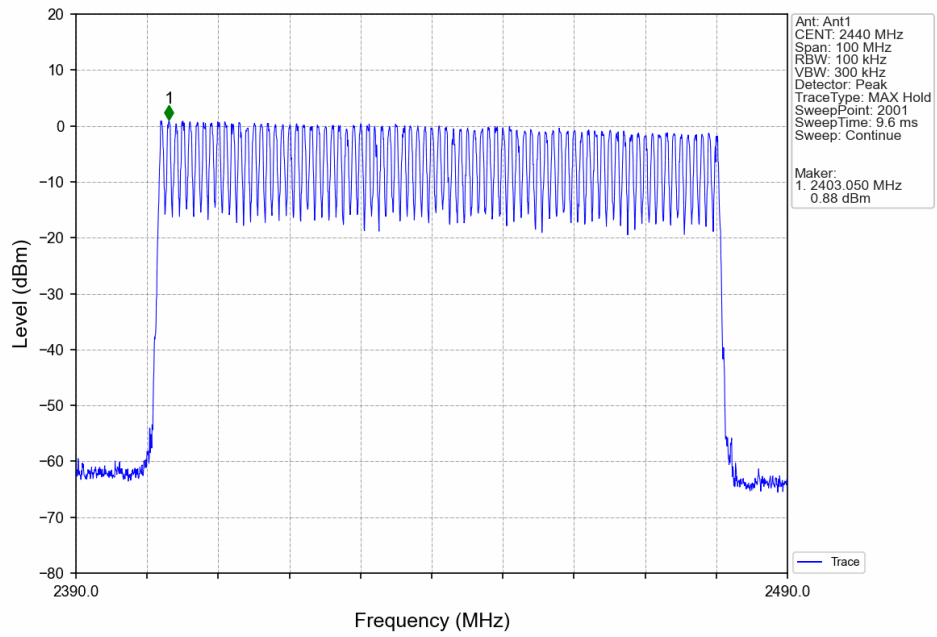
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



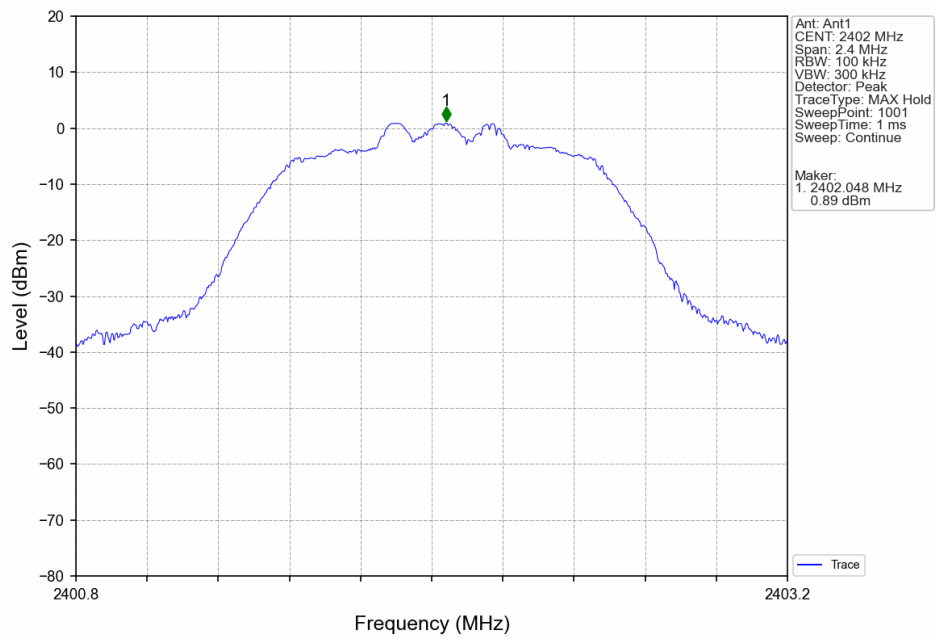
GFSK_DH5_HOPP_2440MHz_Ant1_NTNV



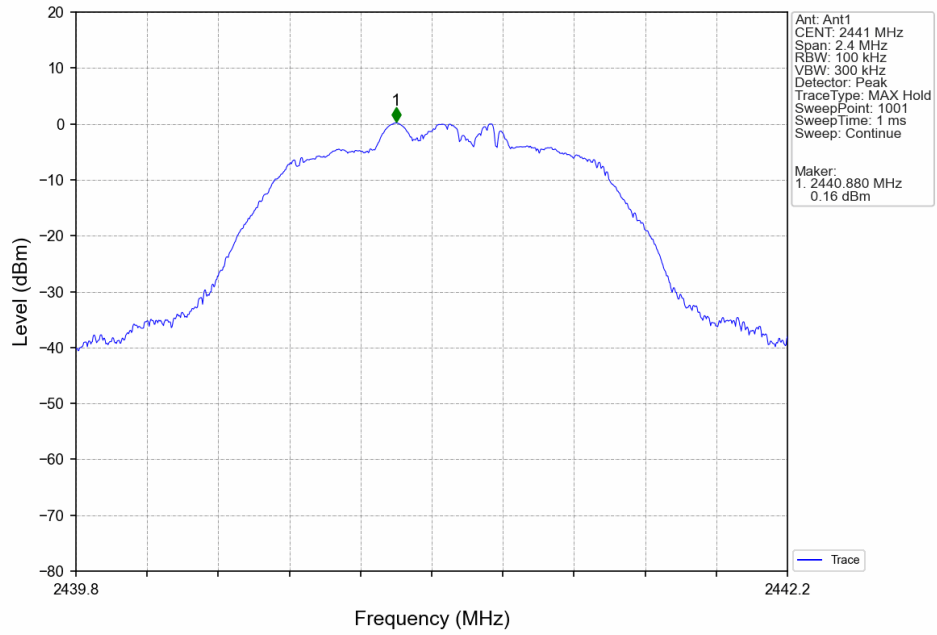
GFSK_DH5_HOPP_Ant1_NTNV



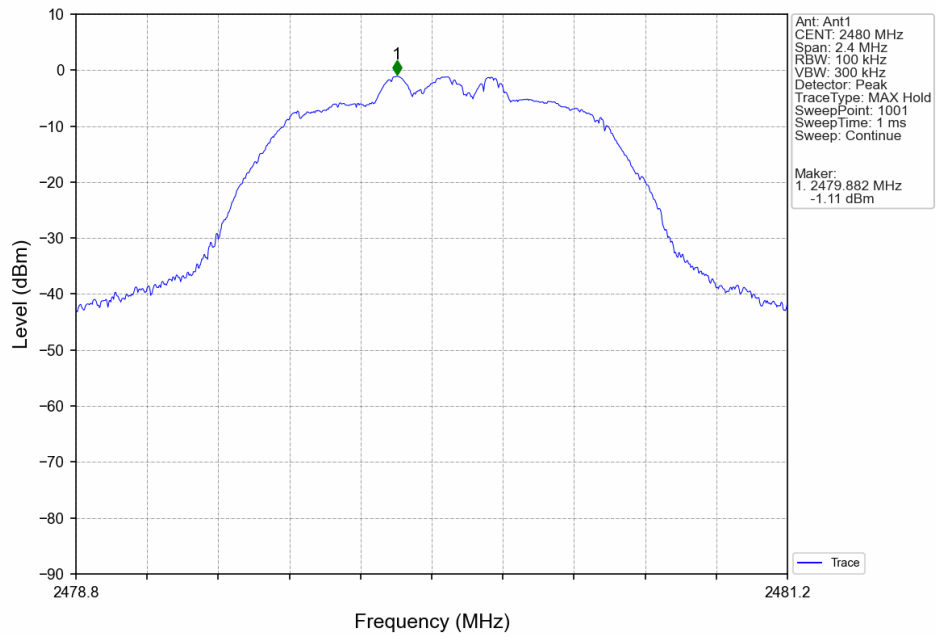
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



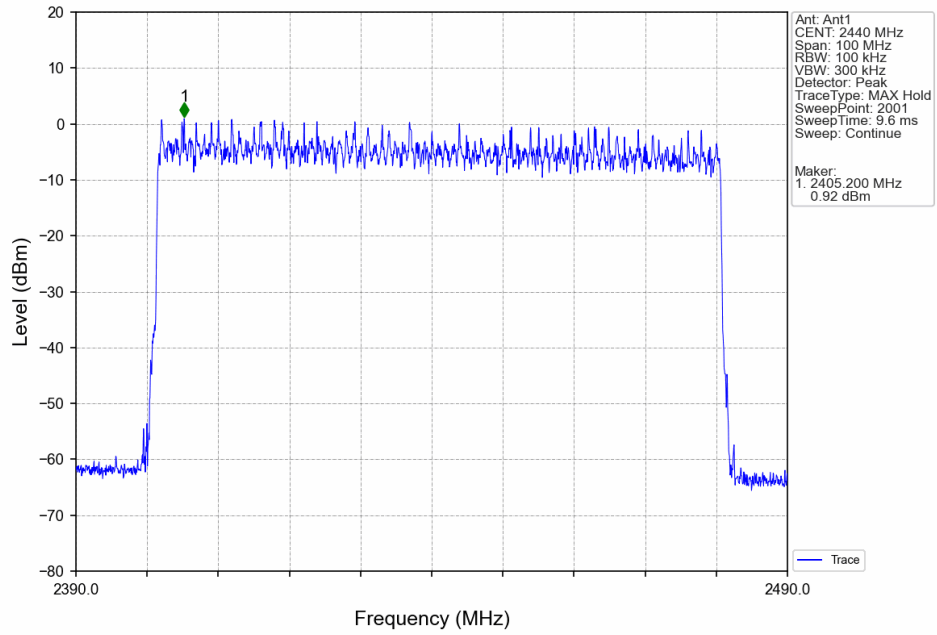
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



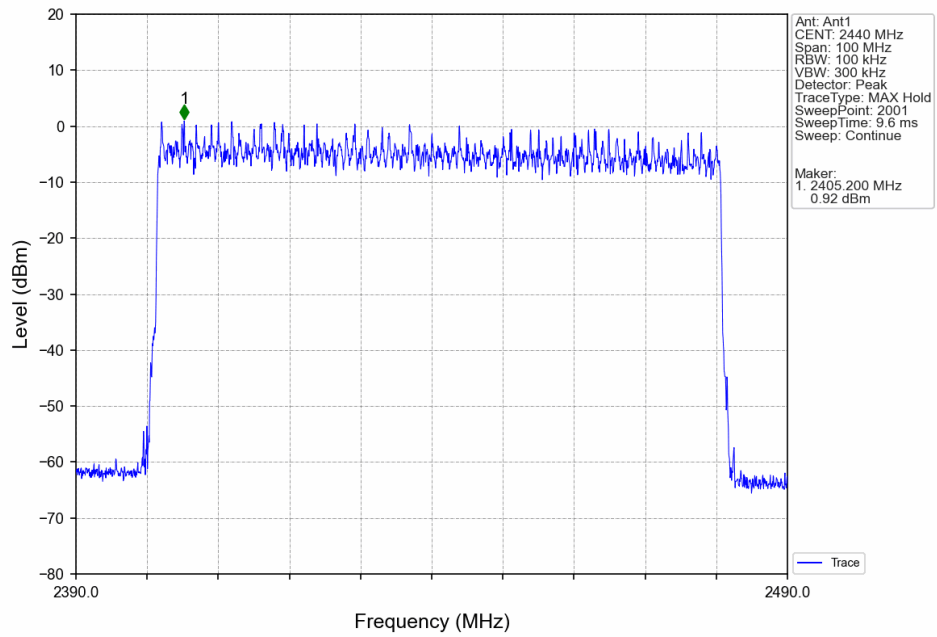
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



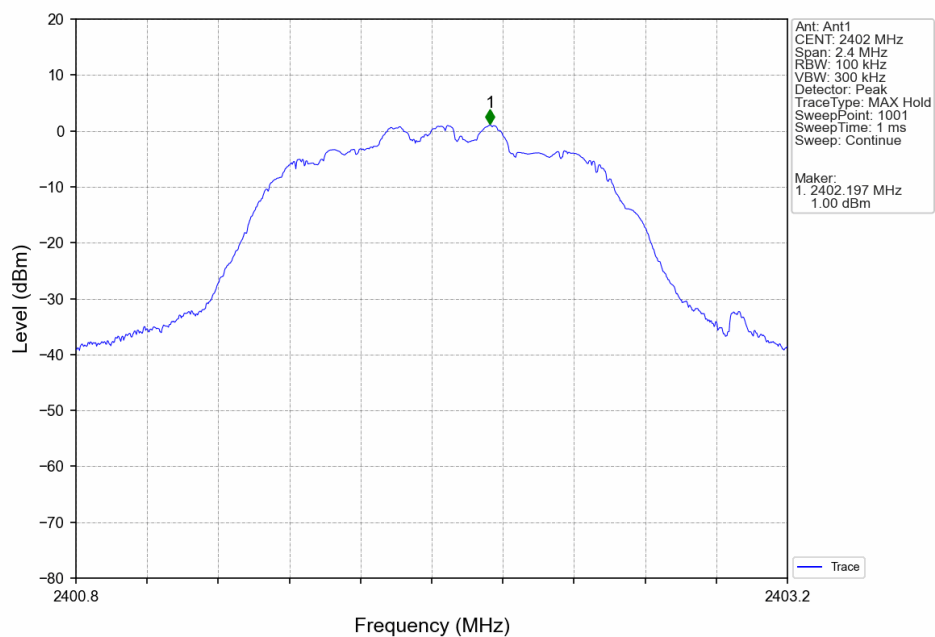
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



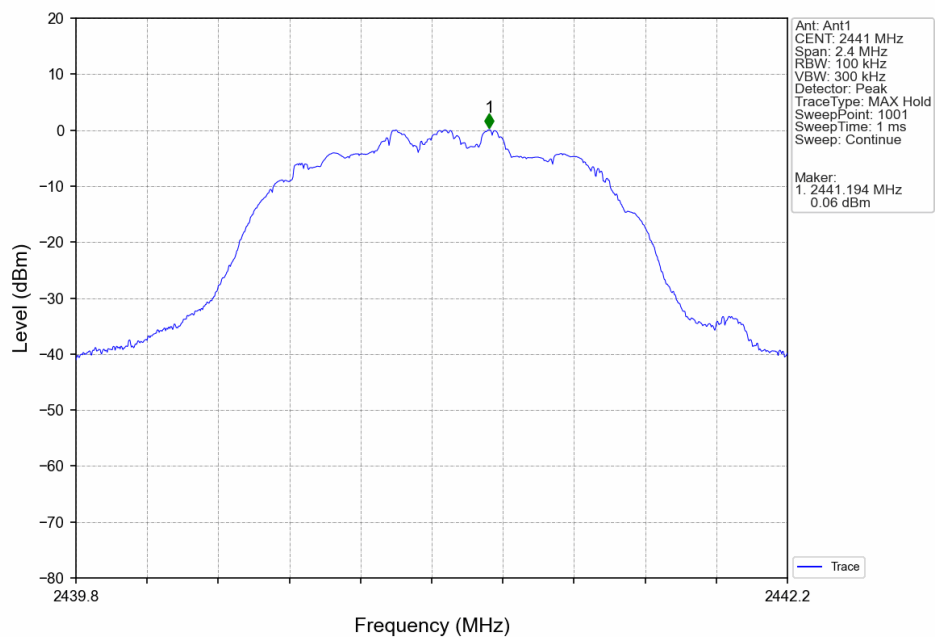
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



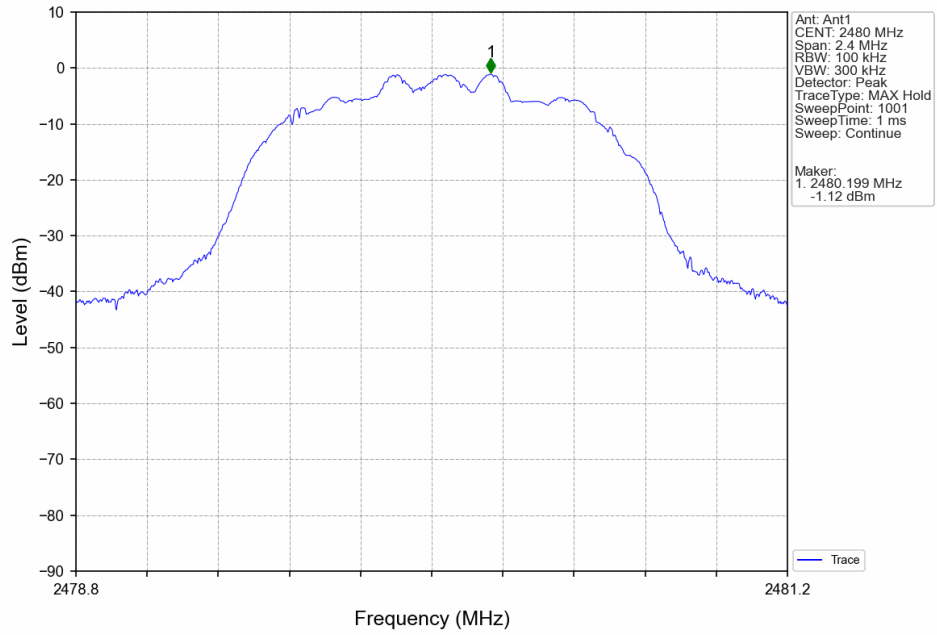
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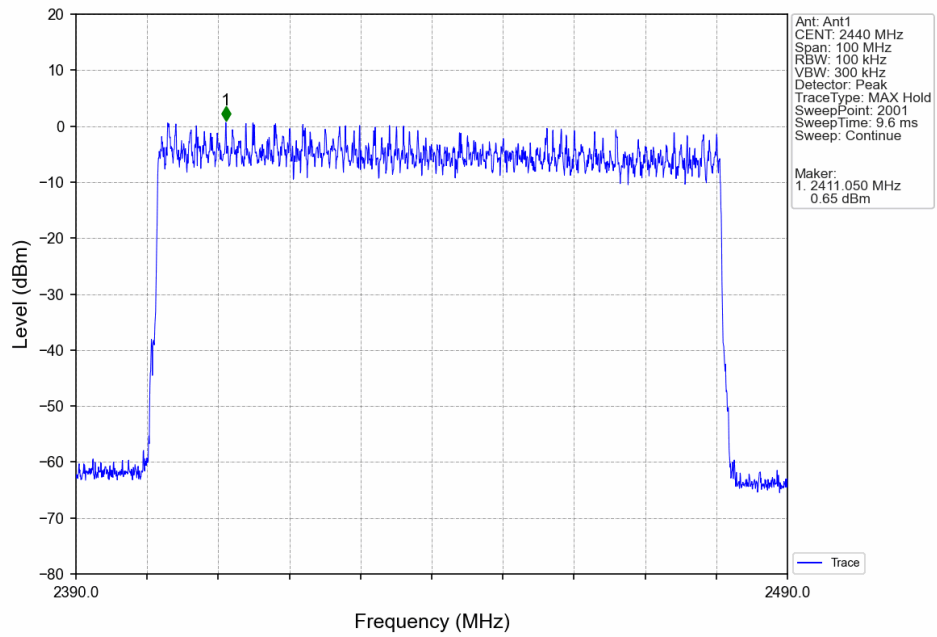
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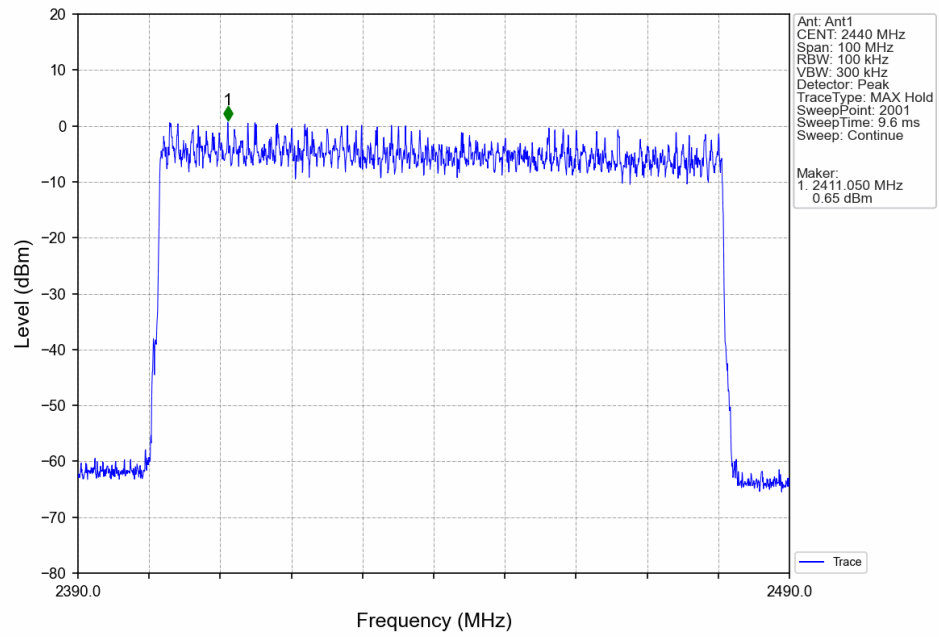
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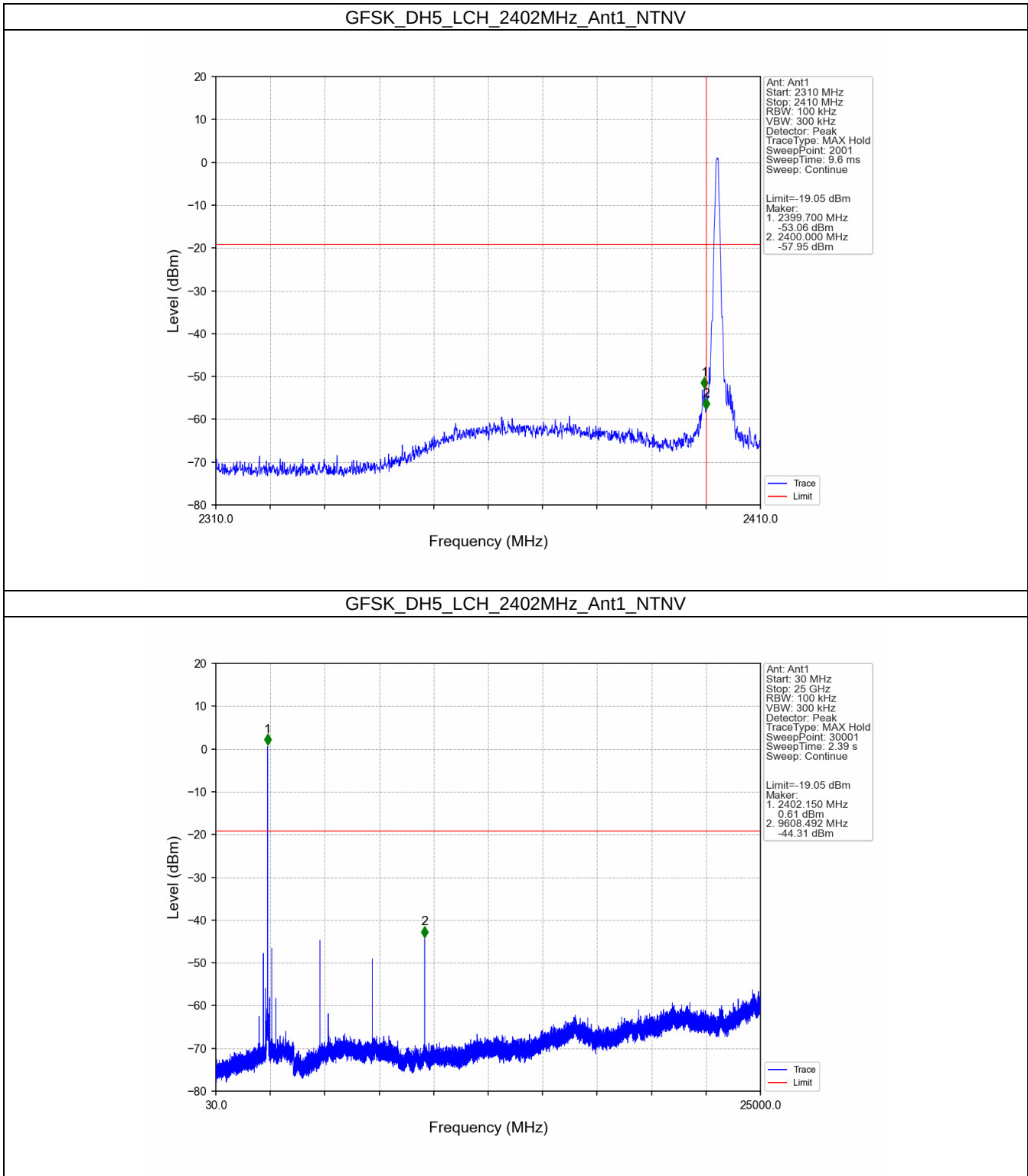
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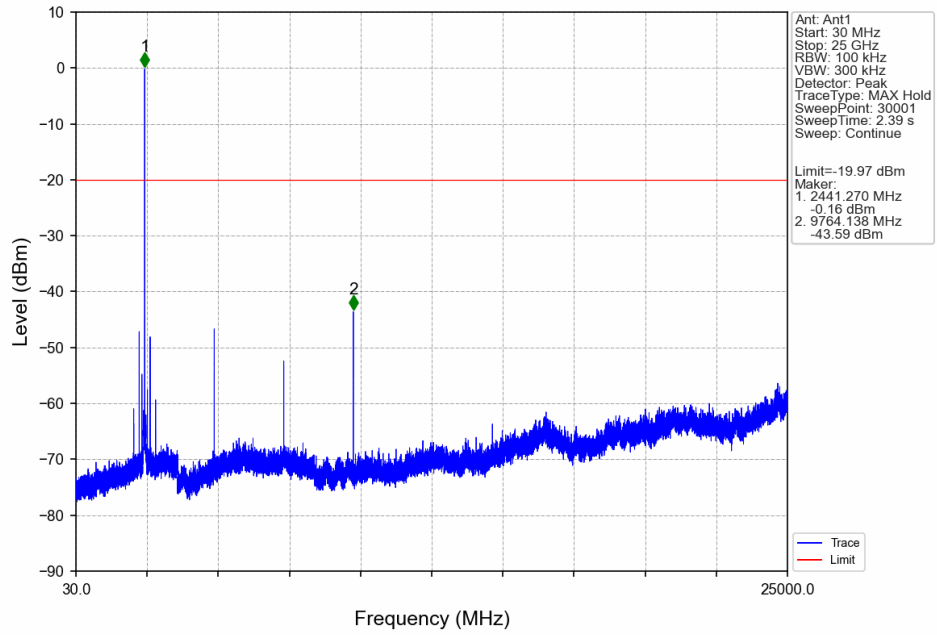
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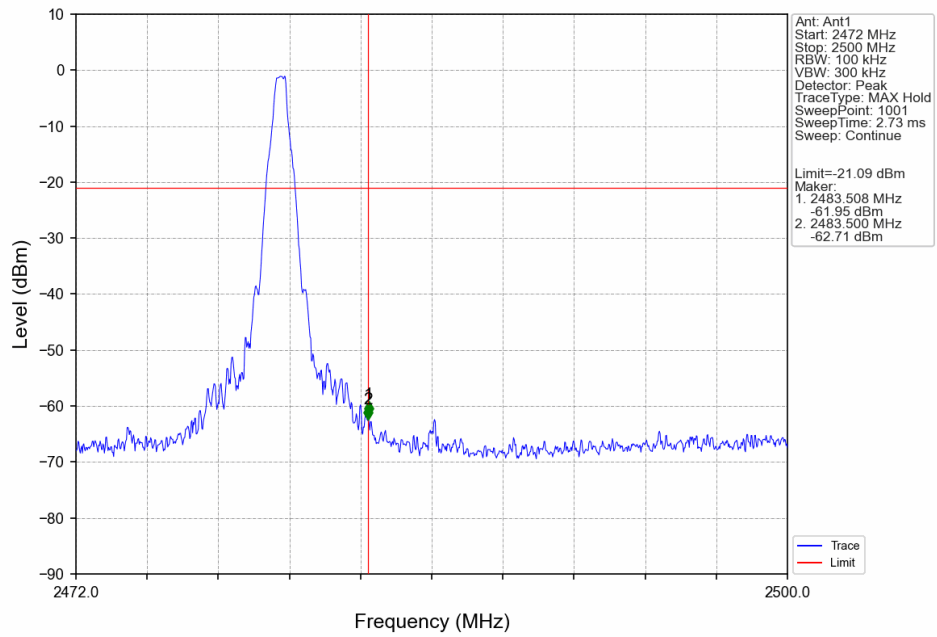
6.2.2 CSE



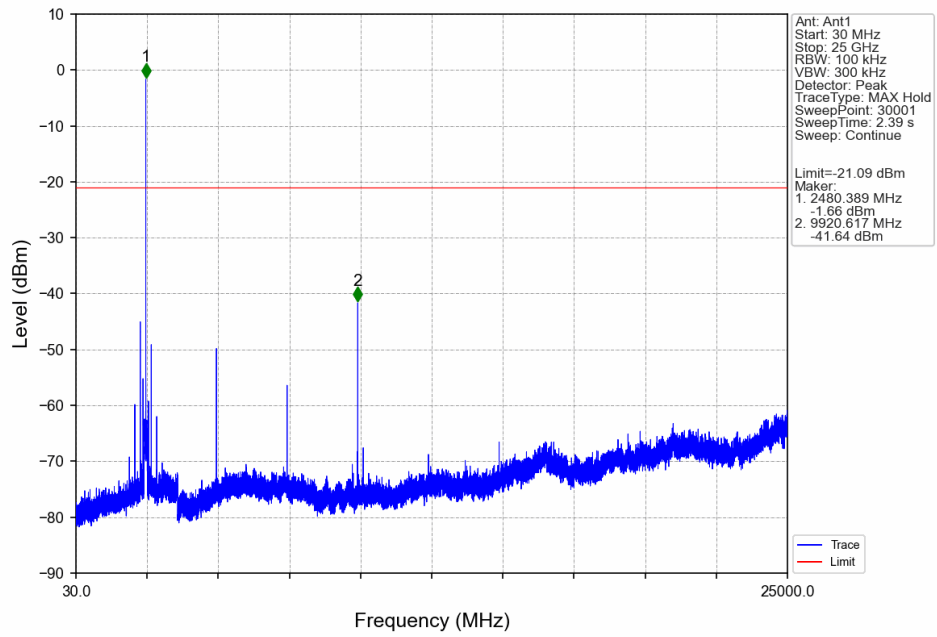
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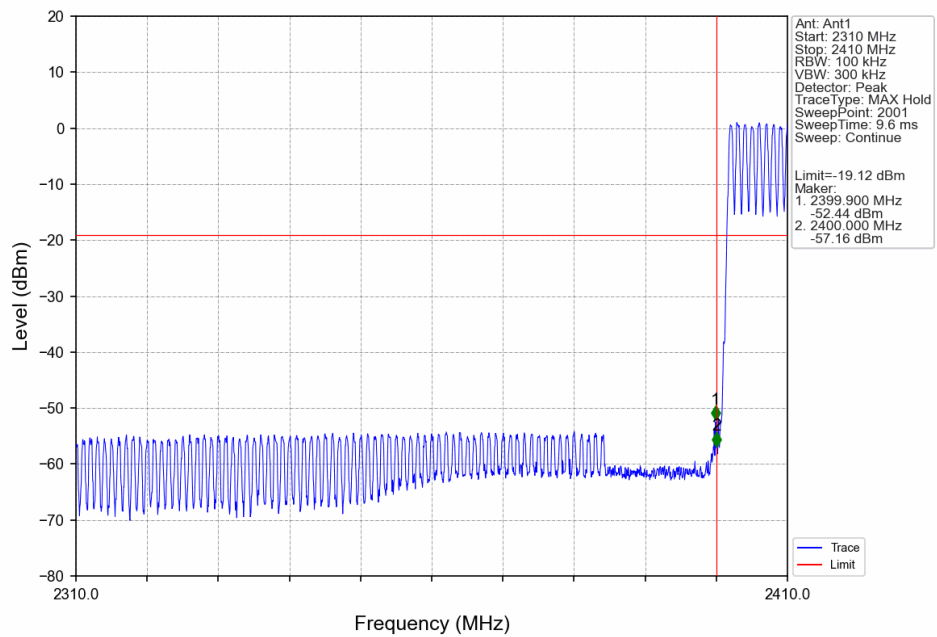
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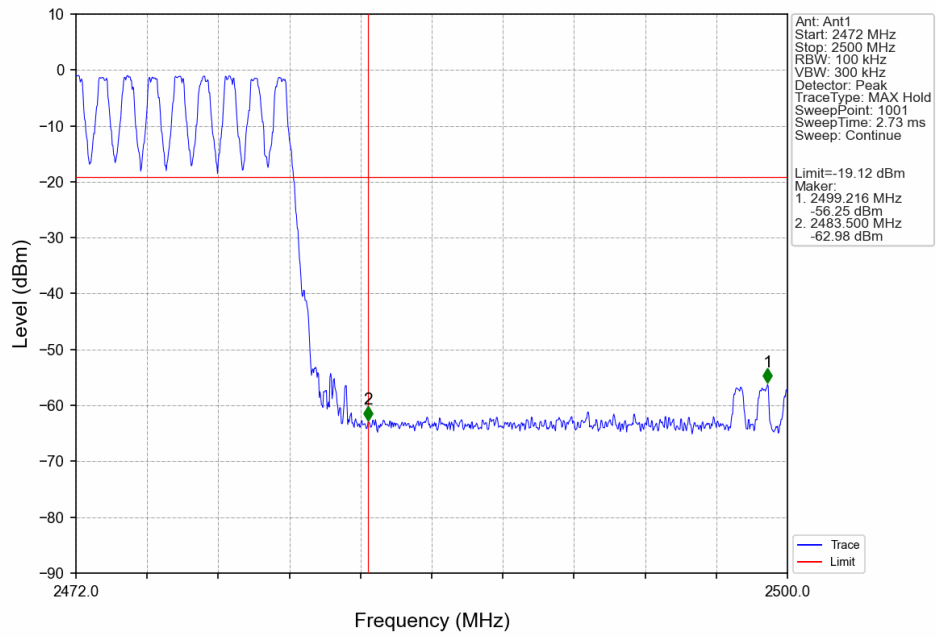
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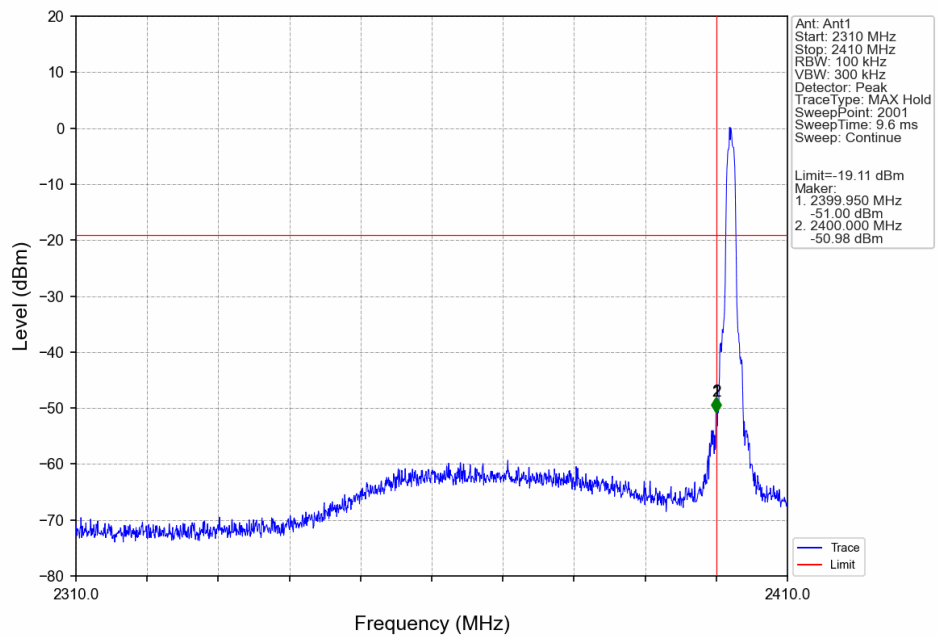
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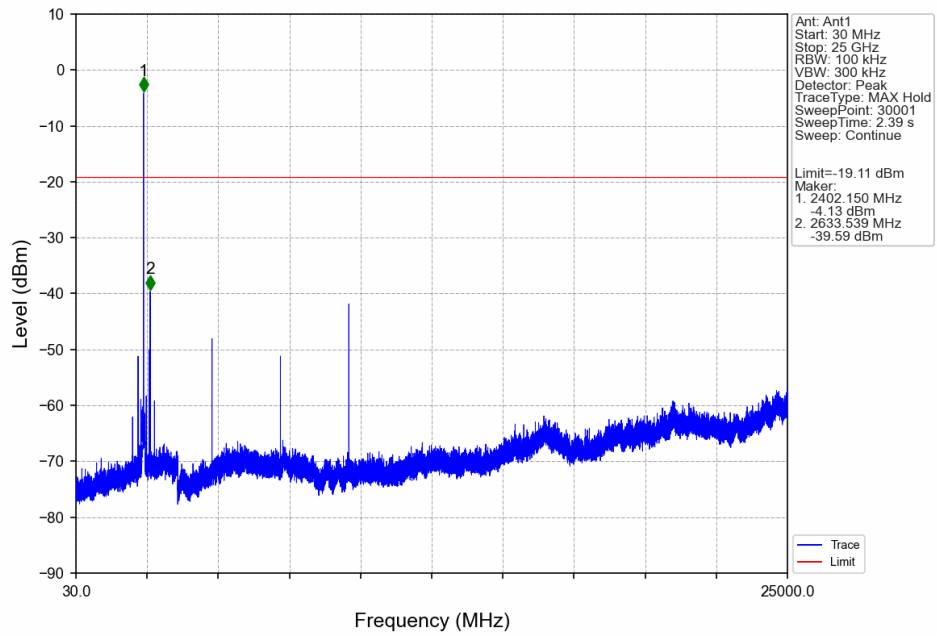
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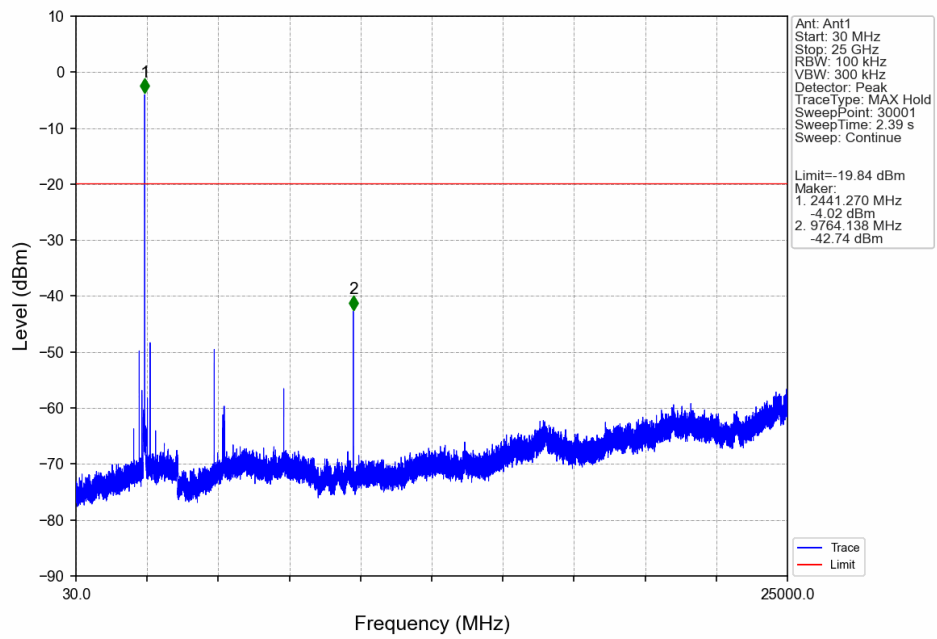
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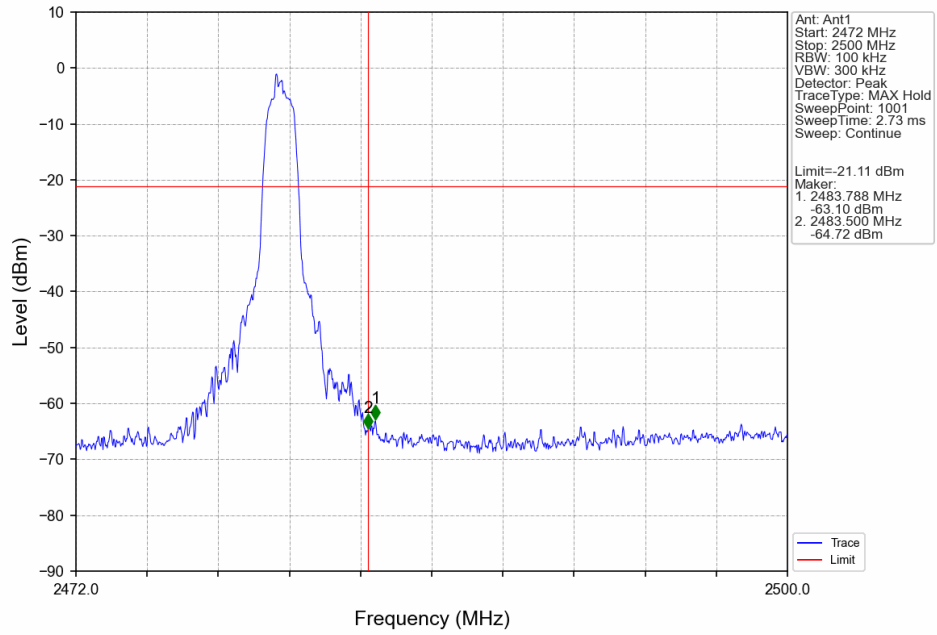
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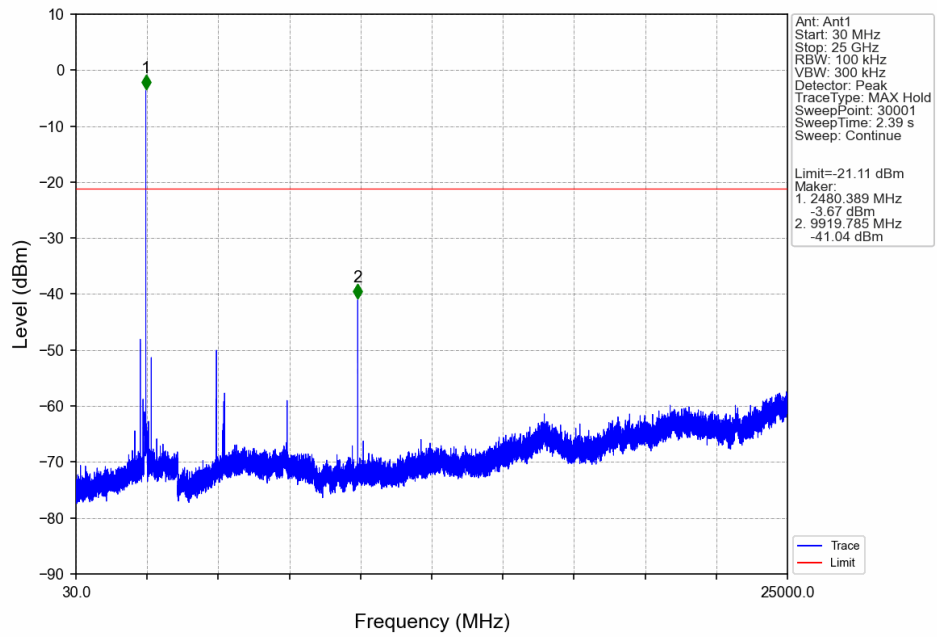
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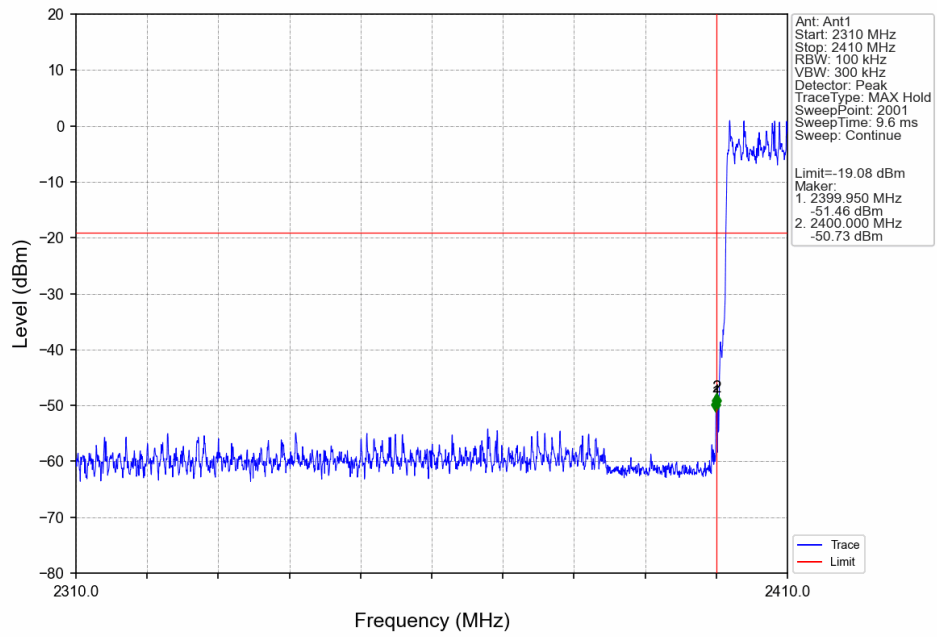
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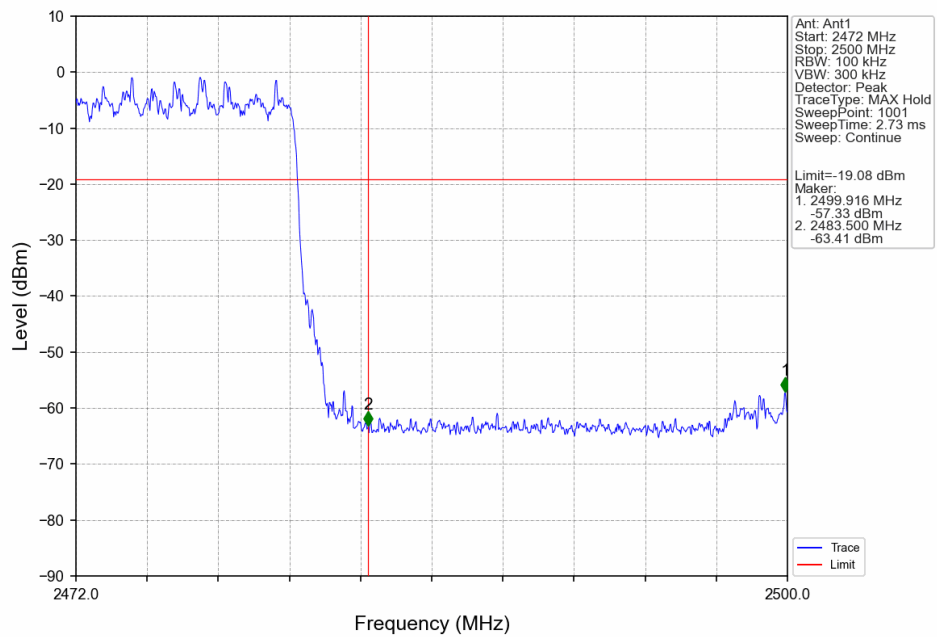
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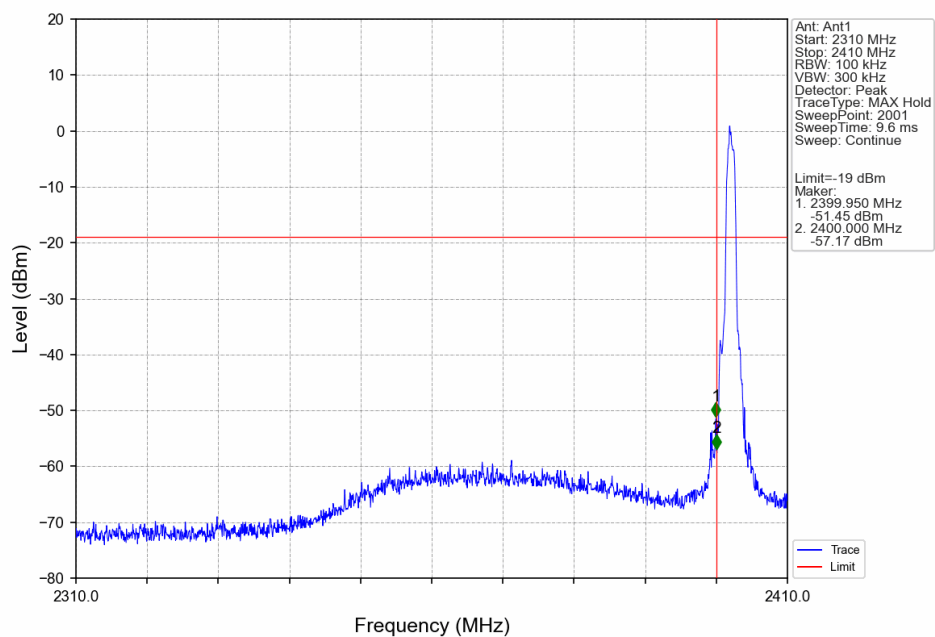
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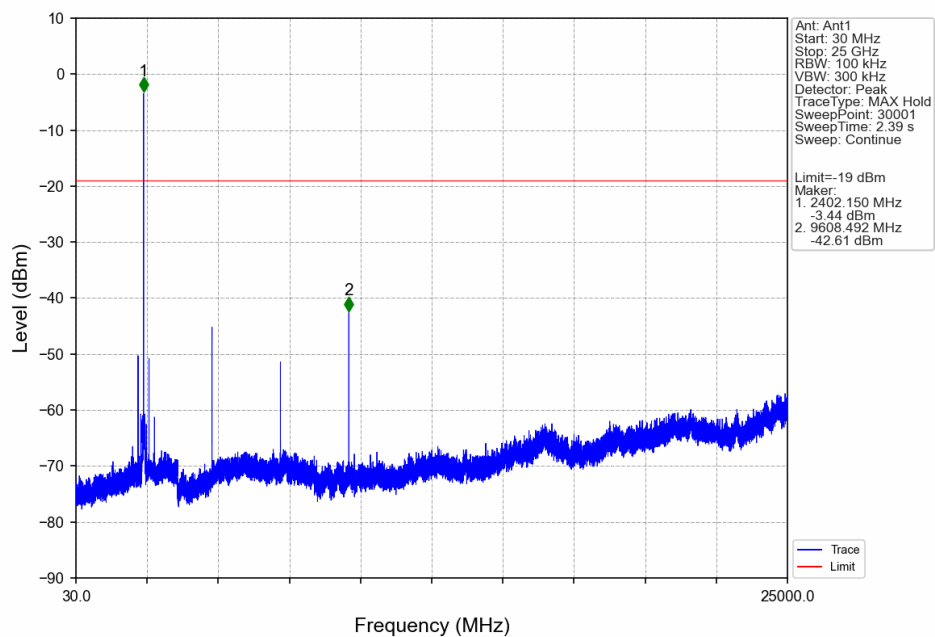
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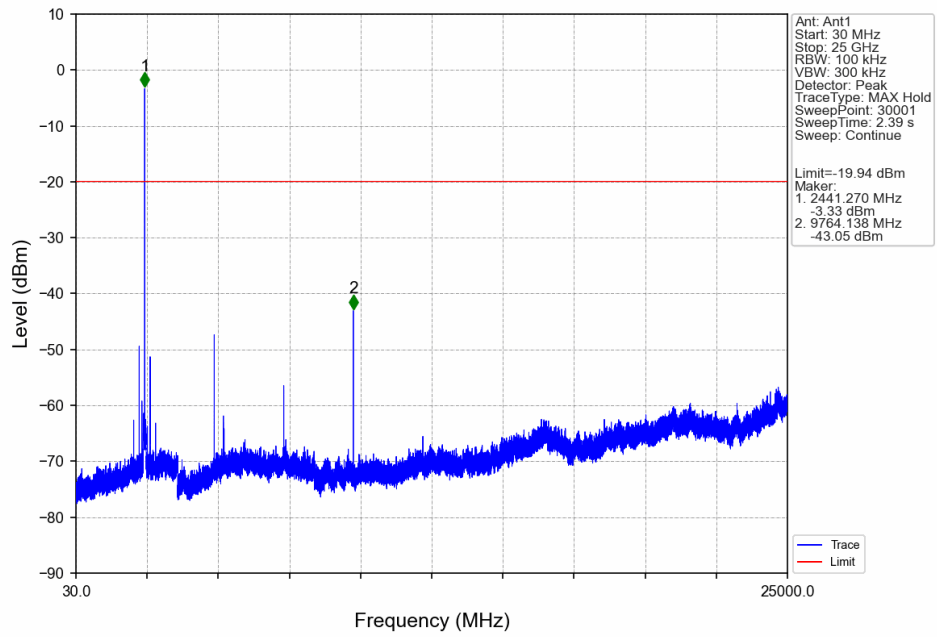
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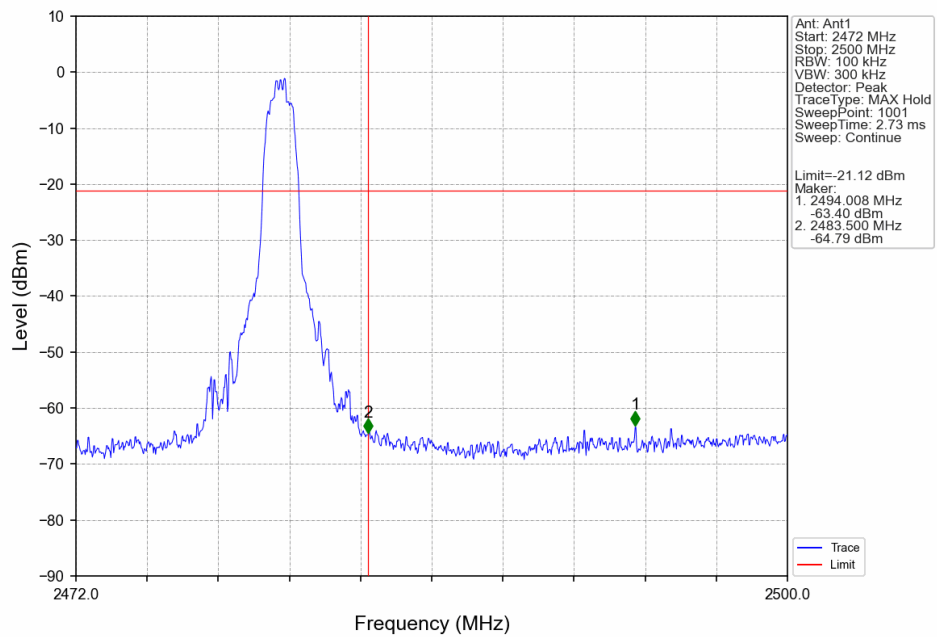
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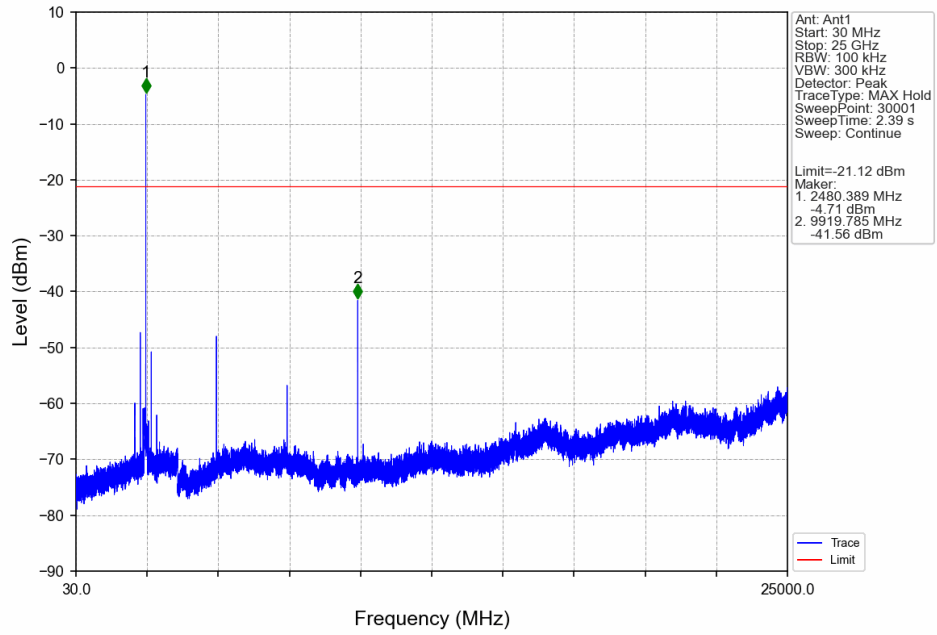
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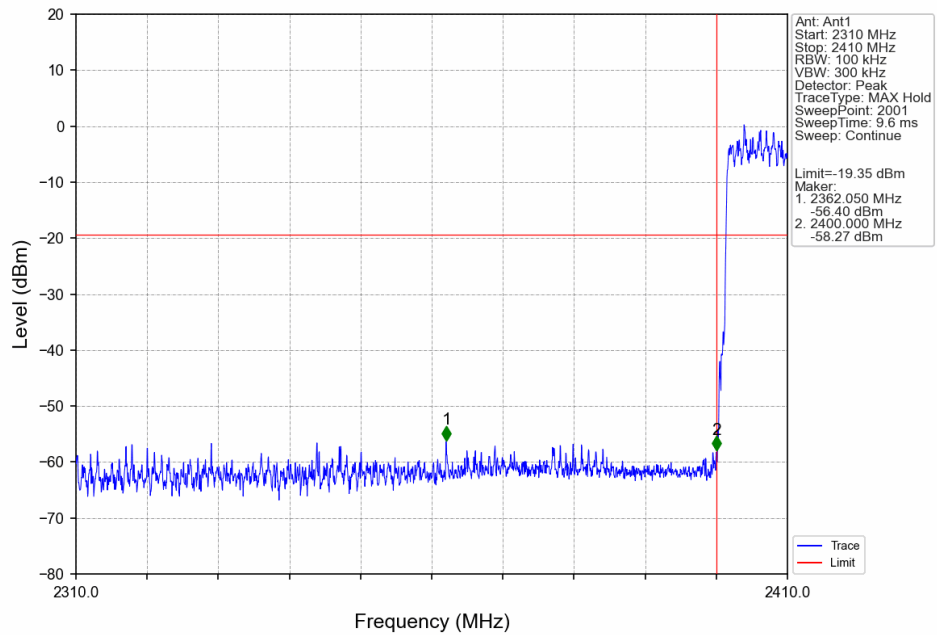
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV

