

FCC ID: 2A900-UB001S

Applicant: Ultimea Technology (Shenzhen) Limited

Address: 20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District, Shenzhen, China

Manufacturer: Ultimea Technology (Shenzhen) Limited

Address: 20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District, Shenzhen, China

Product Name: Bookshelf Speakers

Trade Mark: ULTIMEA

Model Number: UB001, UB000, UB002, UB003, UB004, UB005, UB090, UB091, UB092, UB093, UB094, UB095

Date of Receipt: Jul. 03, 2026

Test Date: Jul. 03, 2026 - Aug. 13, 2026

Date of Report: Aug. 13, 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-260724039R

1. Bandwidth

1.1 Test Result

1.1.1 OBW

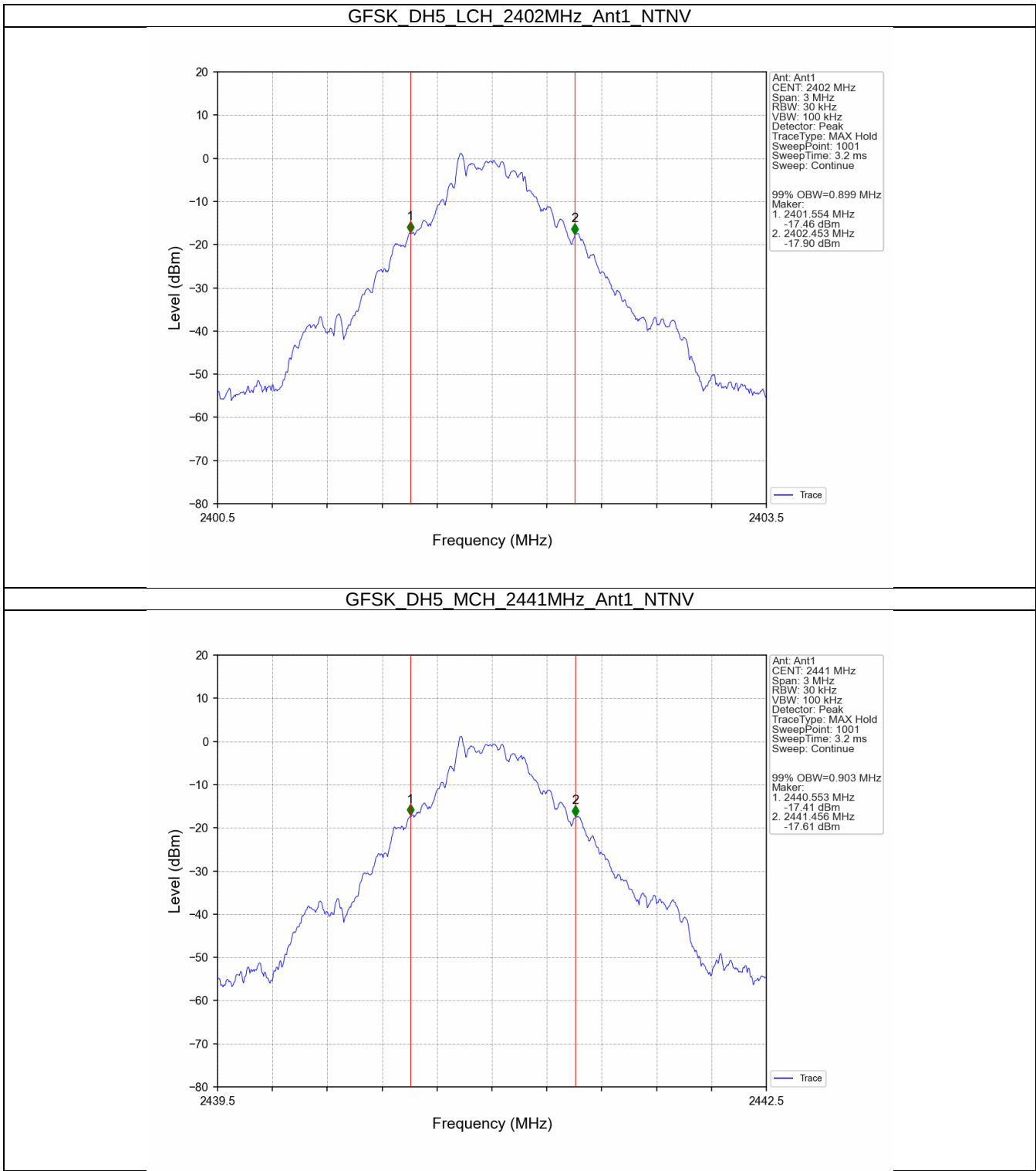
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.899	/	Pass
		2441	DH5	1	0.903	/	Pass
		2480	DH5	1	0.911	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.180	/	Pass
		2441	2DH5	1	1.183	/	Pass
		2480	2DH5	1	1.183	/	Pass
8DPSK	SISO	2402	3DH5	1	1.176	/	Pass
		2441	3DH5	1	1.174	/	Pass
		2480	3DH5	1	1.177	/	Pass

1.1.2 20dB BW

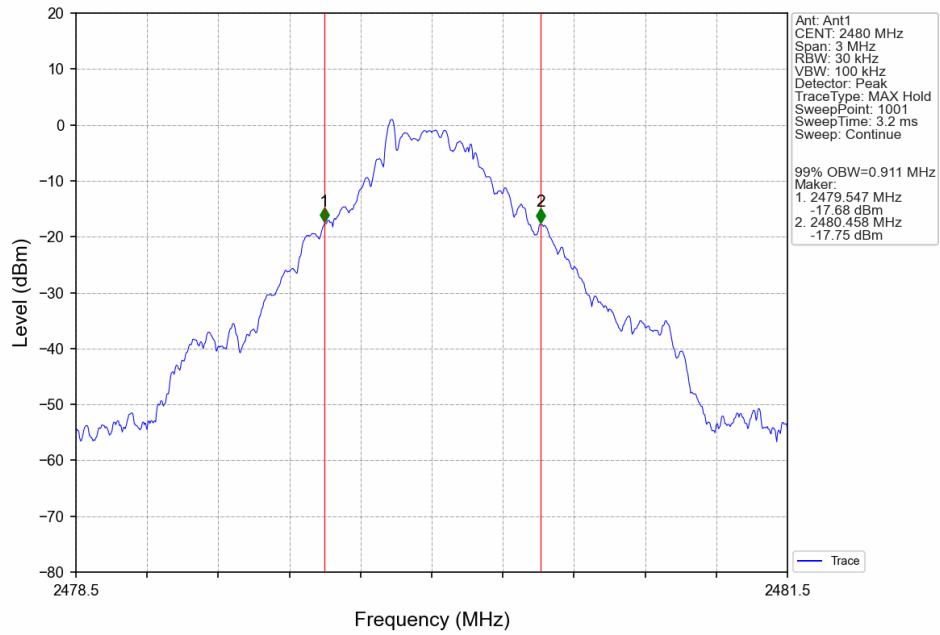
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.963	/	Pass
		2441	DH5	1	0.958	/	Pass
		2480	DH5	1	0.955	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.286	/	Pass
		2441	2DH5	1	1.283	/	Pass
		2480	2DH5	1	1.291	/	Pass
8DPSK	SISO	2402	3DH5	1	1.264	/	Pass
		2441	3DH5	1	1.265	/	Pass
		2480	3DH5	1	1.270	/	Pass

1.2 Test Graph

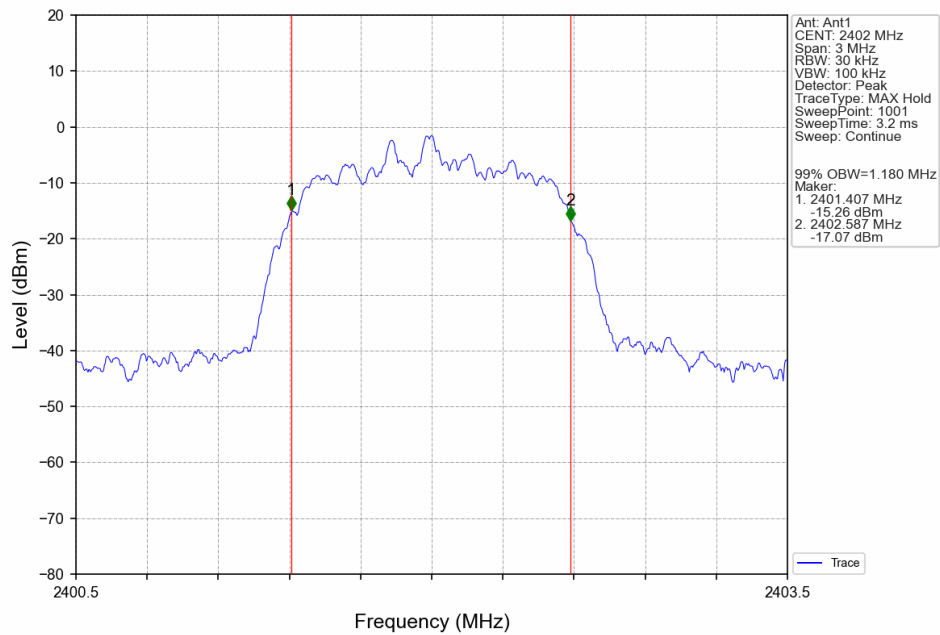
1.2.1 OBW



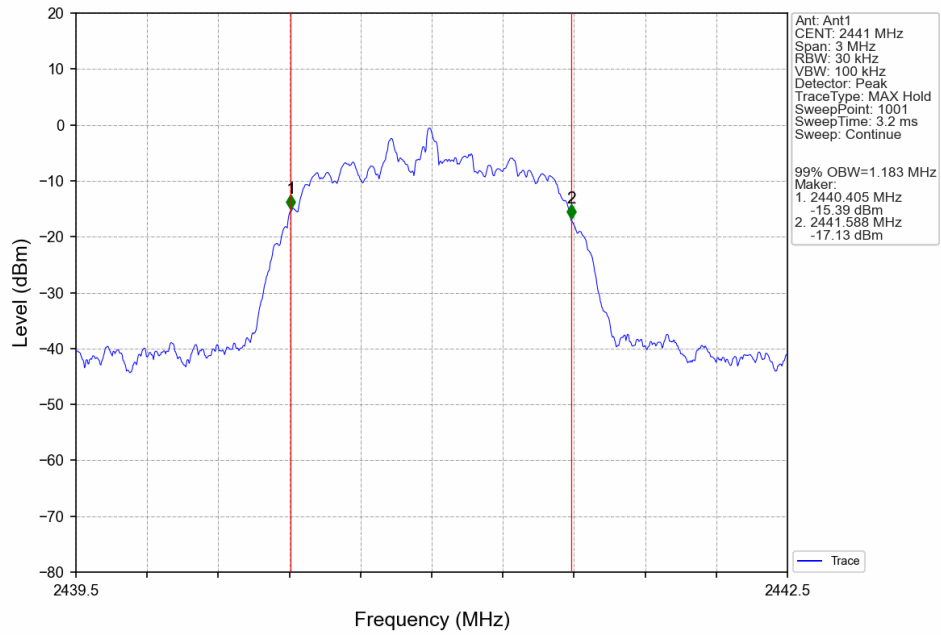
GFSK DH5 HCH 2480MHz Ant1 NTV



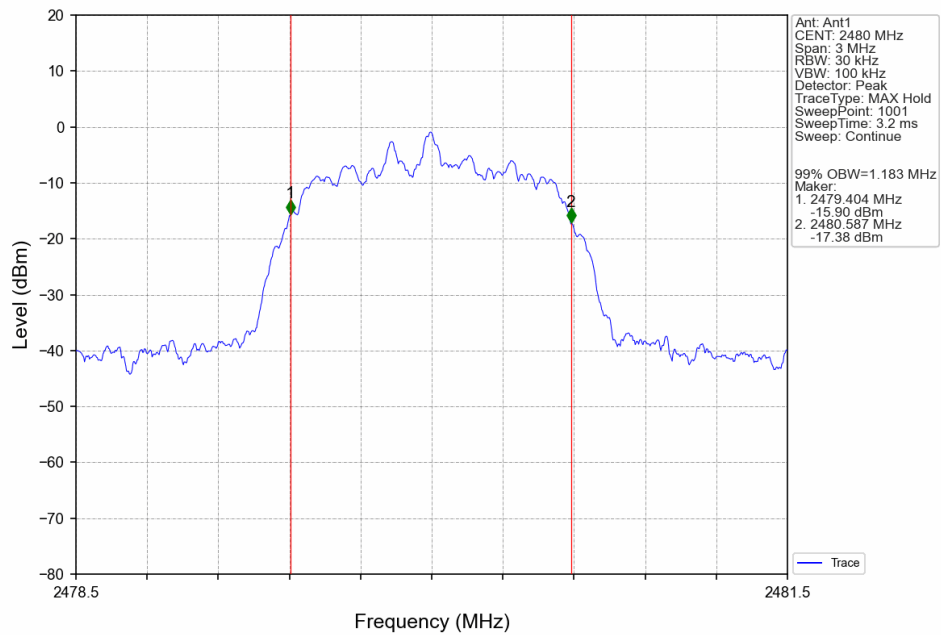
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTV



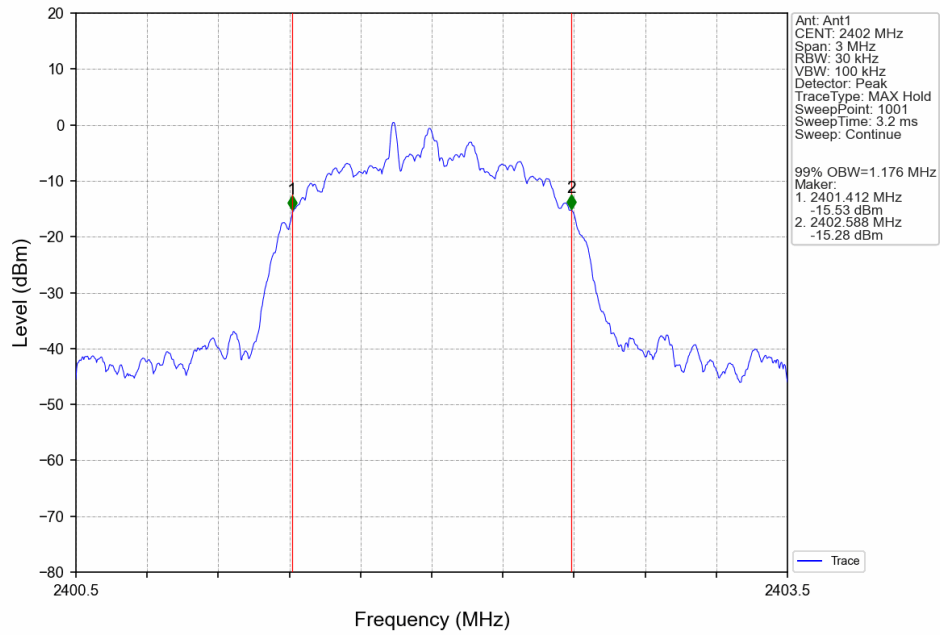
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTNV



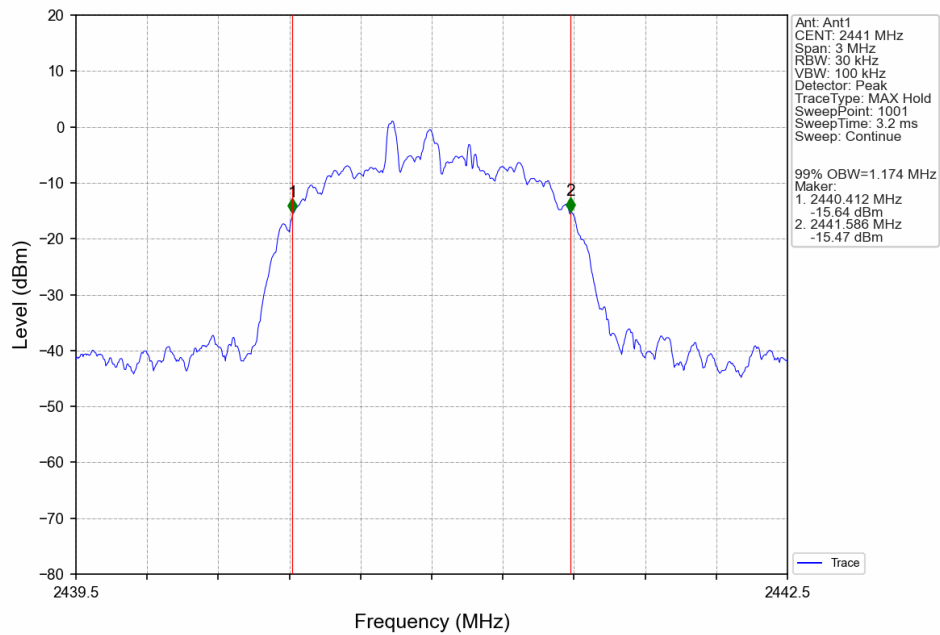
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTNV



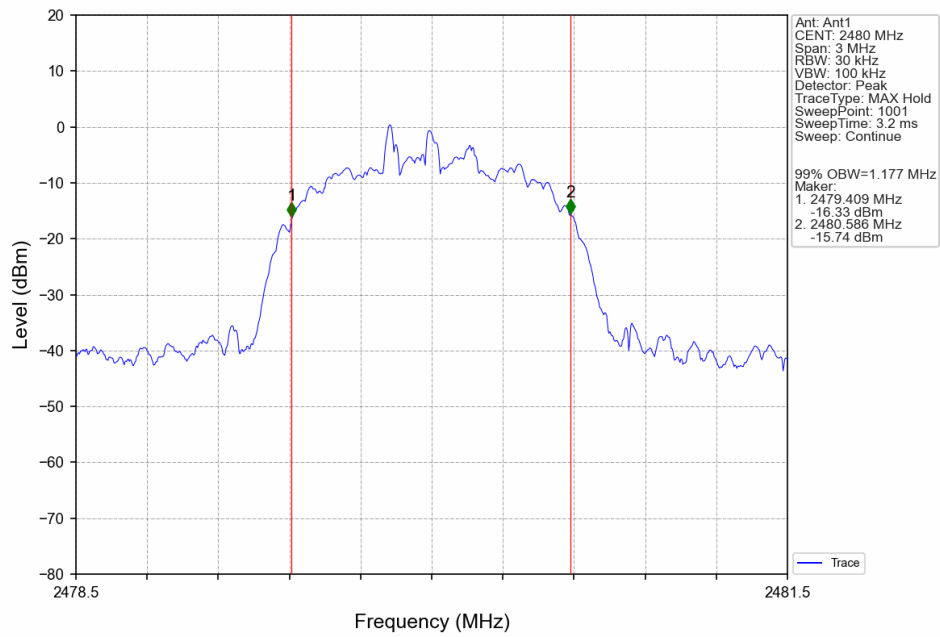
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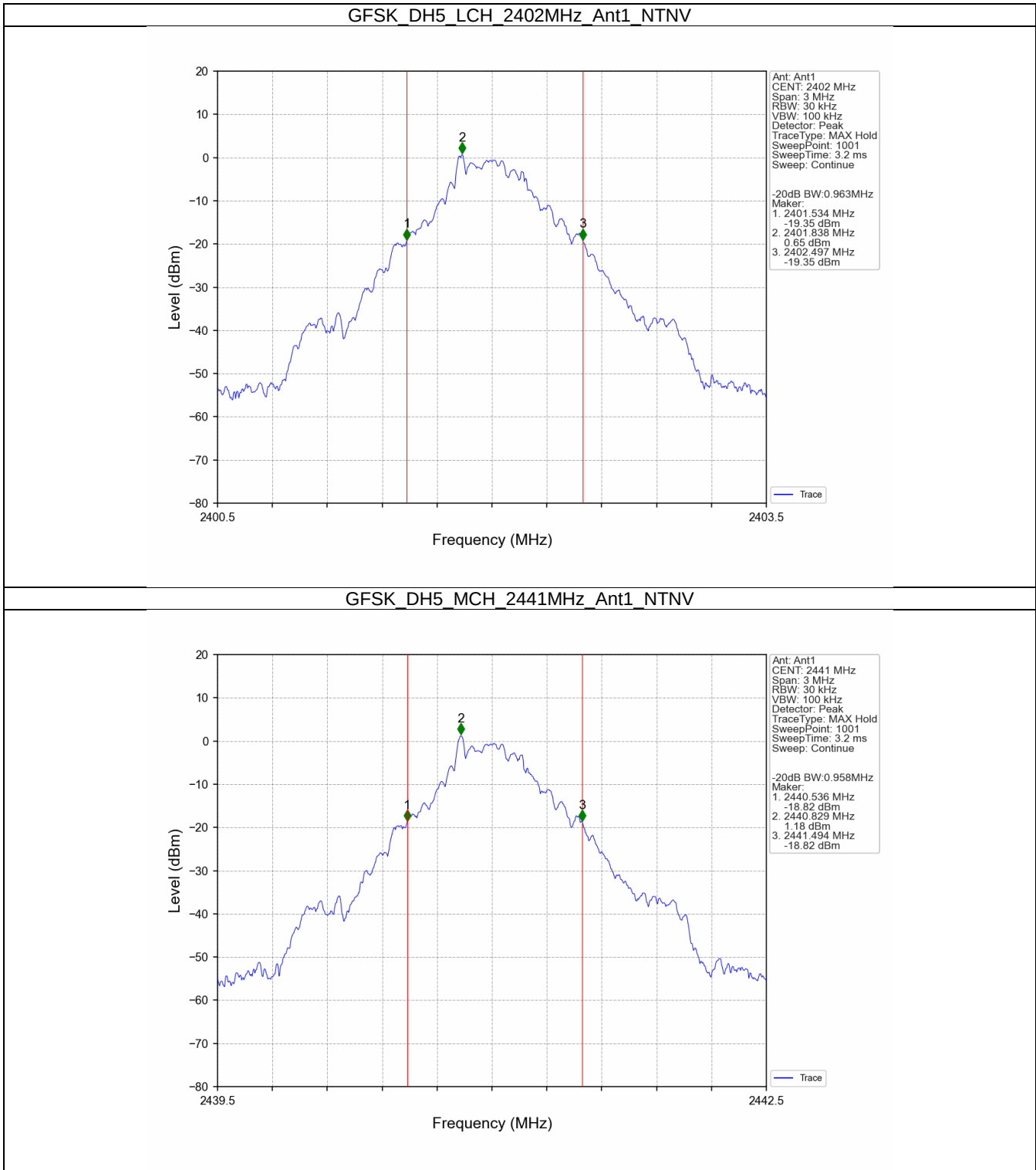
8DPSK 3DH5 MCH 2441MHz Ant1 NTNV



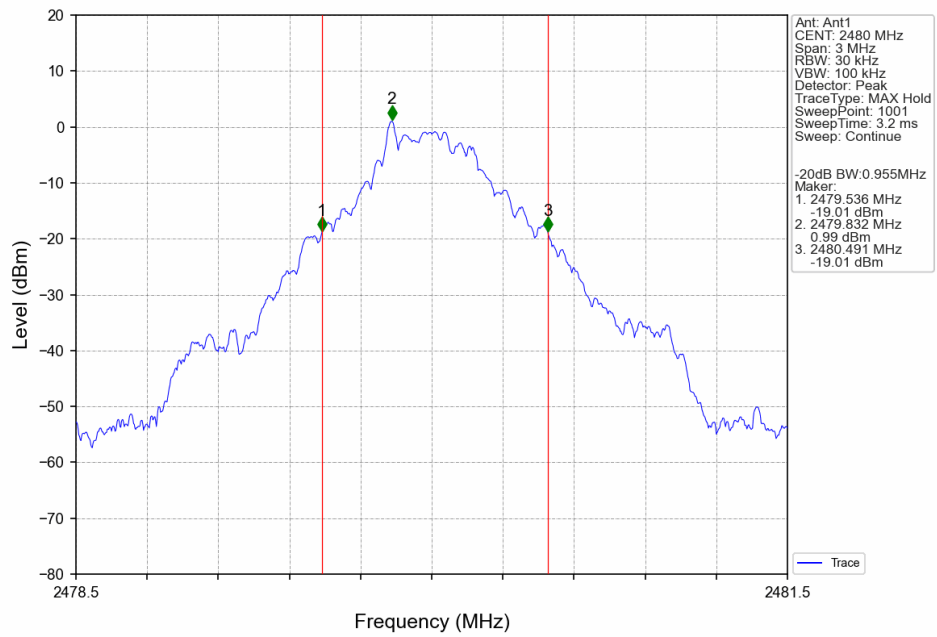
8DPSK 3DH5 HCH 2480MHz Ant1 NTN



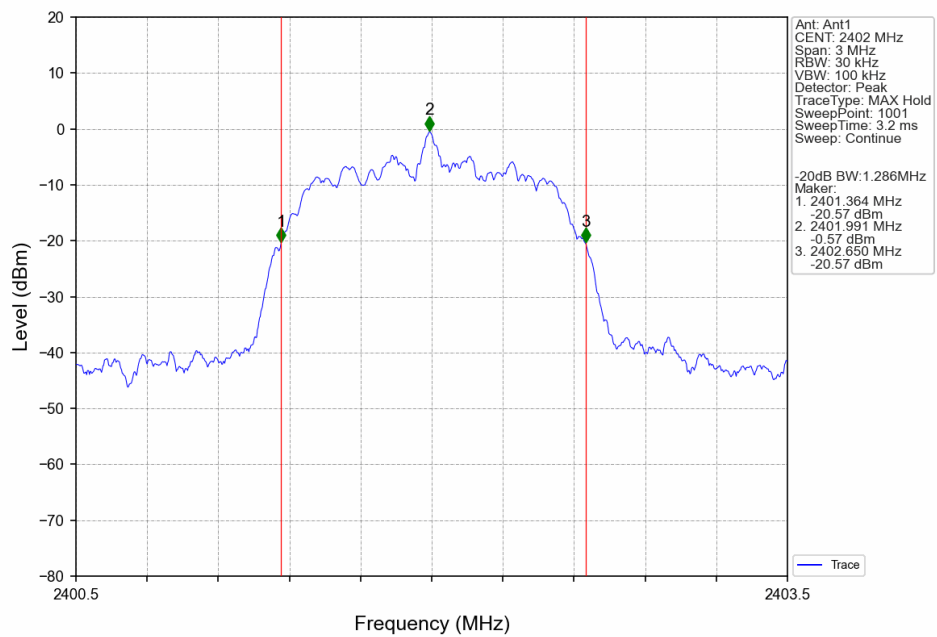
1.2.2 20dB BW



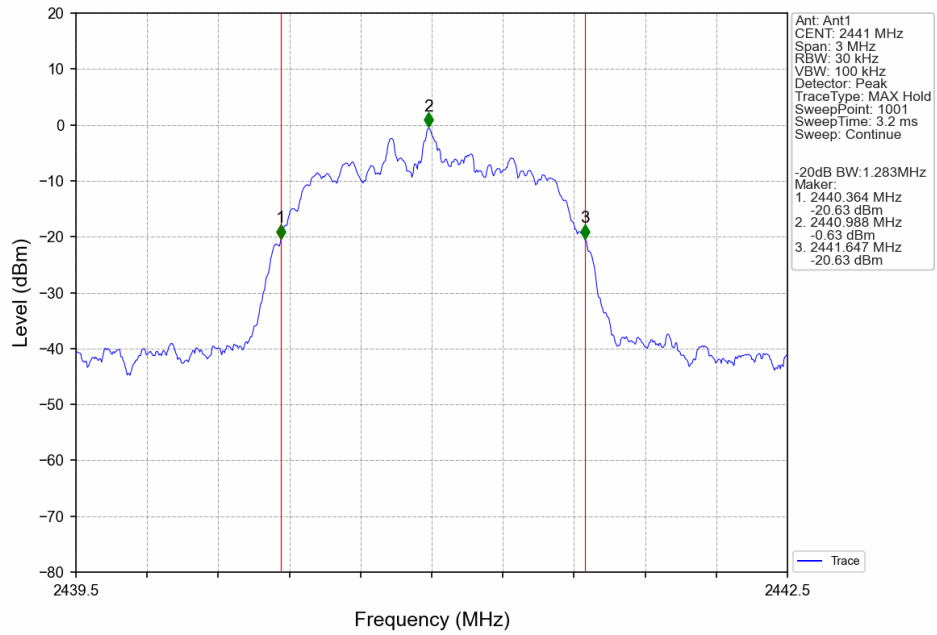
GFSK DH5 HCH 2480MHz Ant1 NTV



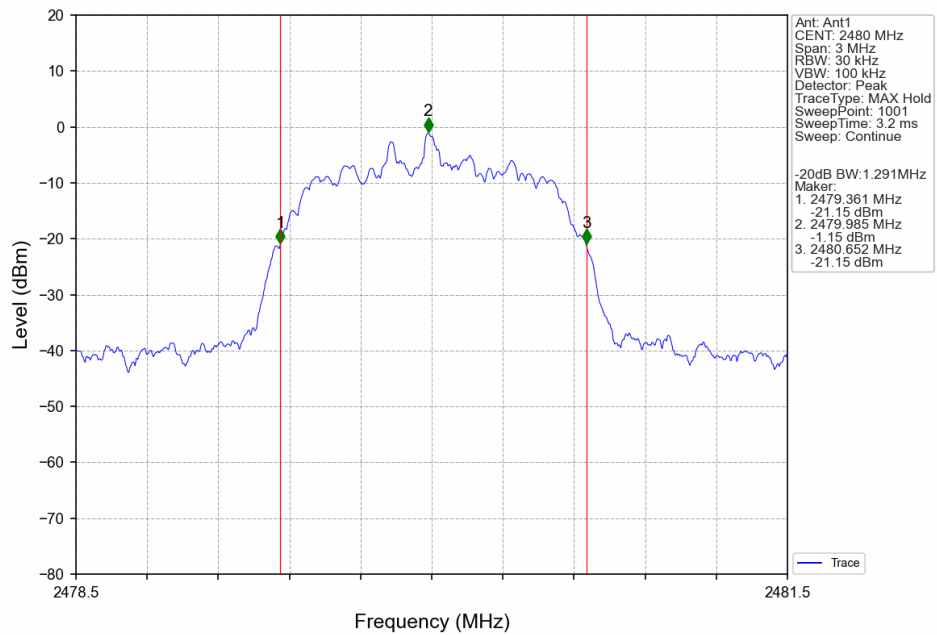
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTV



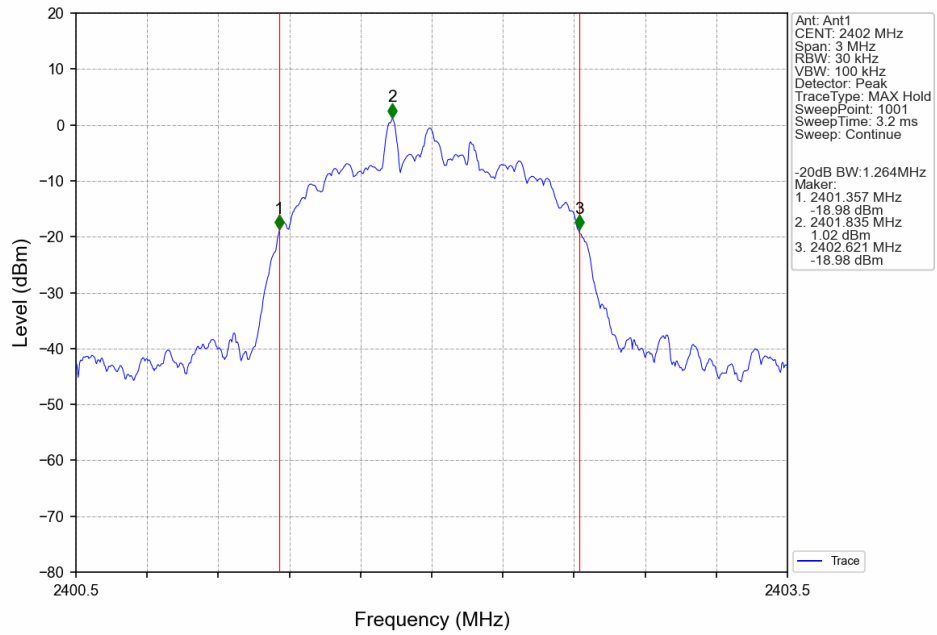
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTN



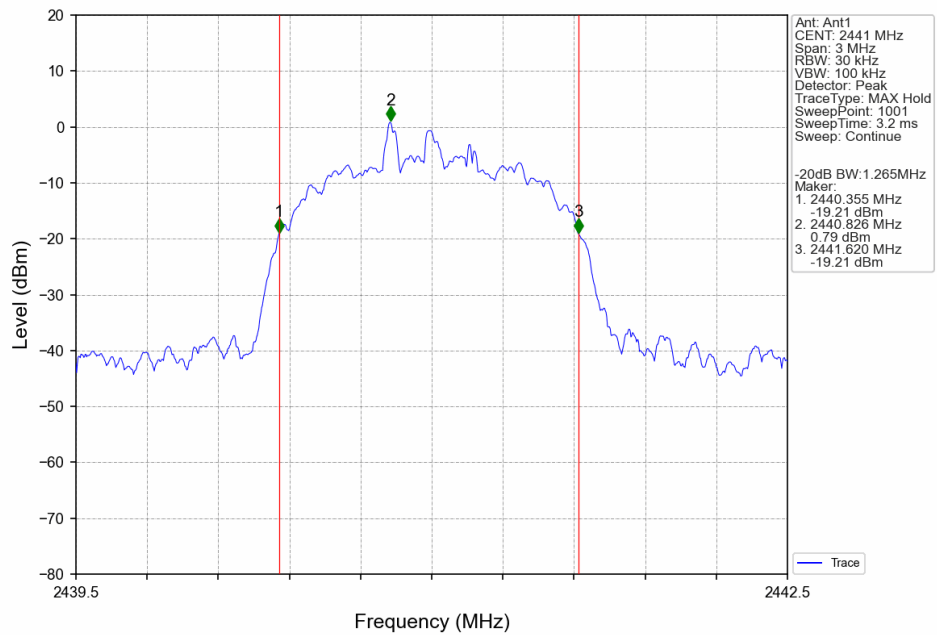
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTN



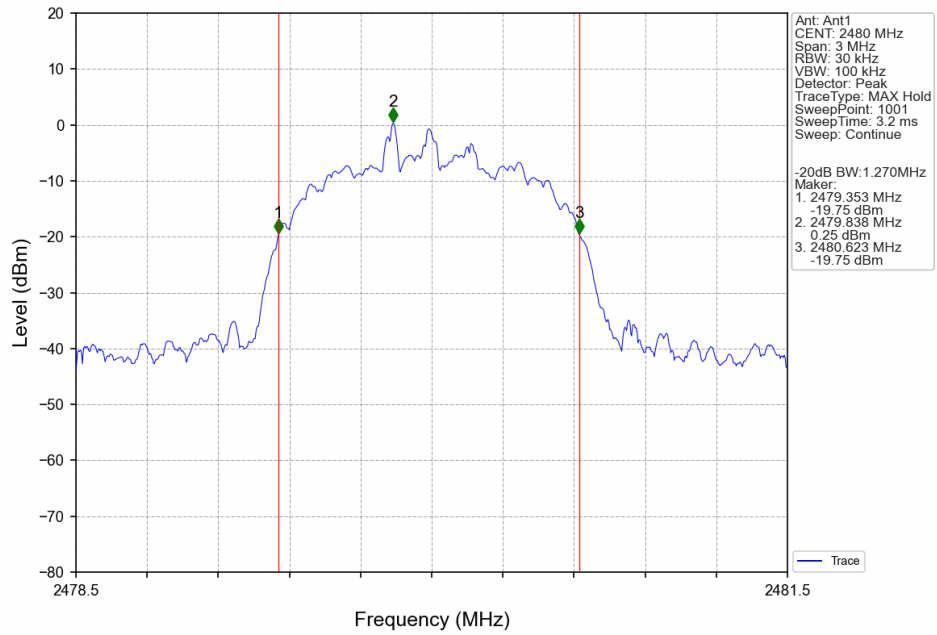
8DPSK 3DH5 LCH 2402MHz Ant1 NTV



8DPSK 3DH5 MCH 2441MHz Ant1 NTV



8DPSK 3DH5 HCH 2480MHz Ant1 NTN



2. Maximum Conducted Output Power

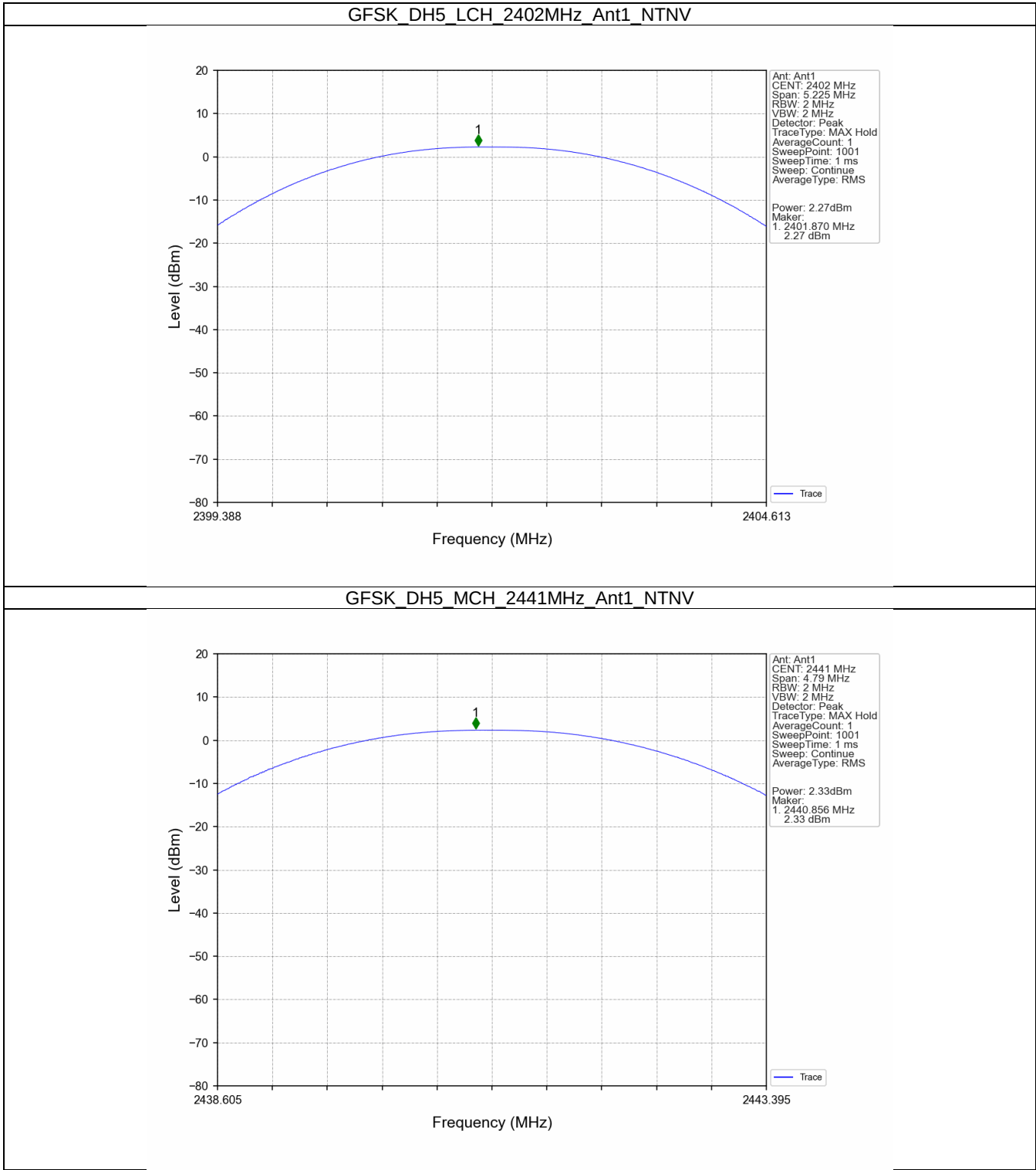
2.1 Test Result

2.1.1 Power

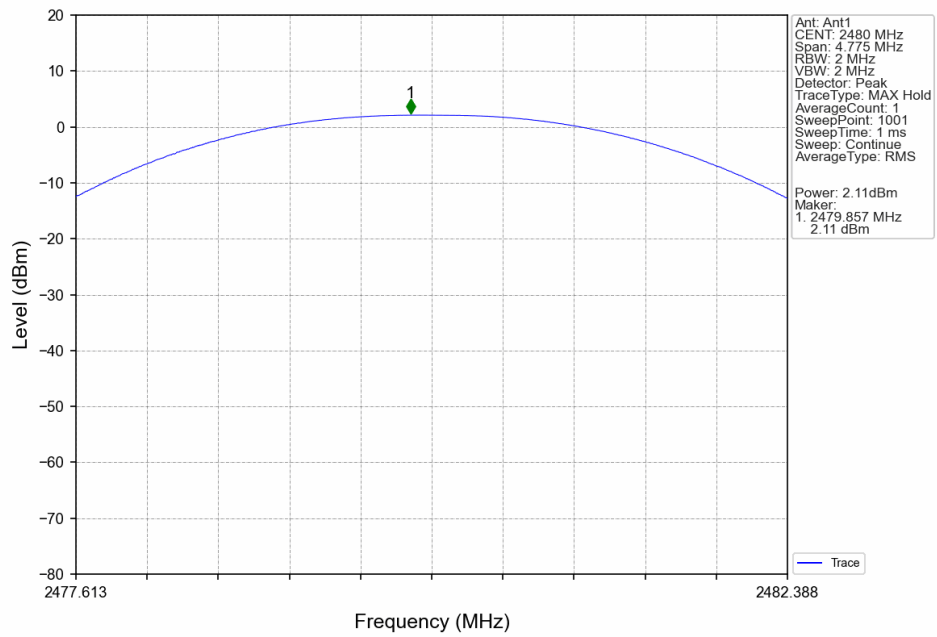
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	2.27	21	Pass
		2441	DH5	2.33	21	Pass
		2480	DH5	2.11	21	Pass
PI/4DQPSK	SISO	2402	2DH5	2.89	21	Pass
		2441	2DH5	2.86	21	Pass
		2480	2DH5	2.60	21	Pass
8DPSK	SISO	2402	3DH5	3.27	21	Pass
		2441	3DH5	3.25	21	Pass
		2480	3DH5	2.97	21	Pass

2.2 Test Graph

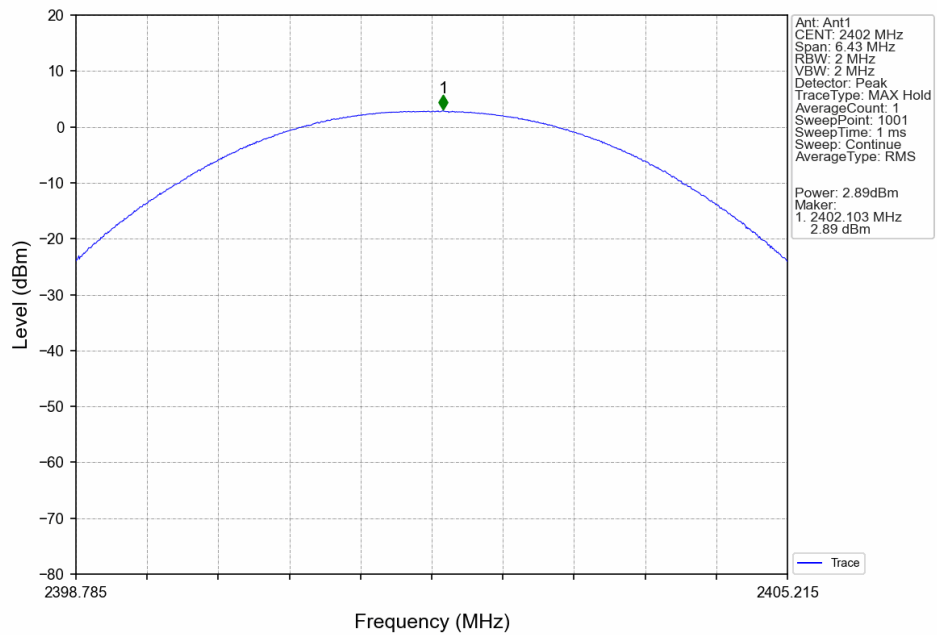
2.2.1 Power



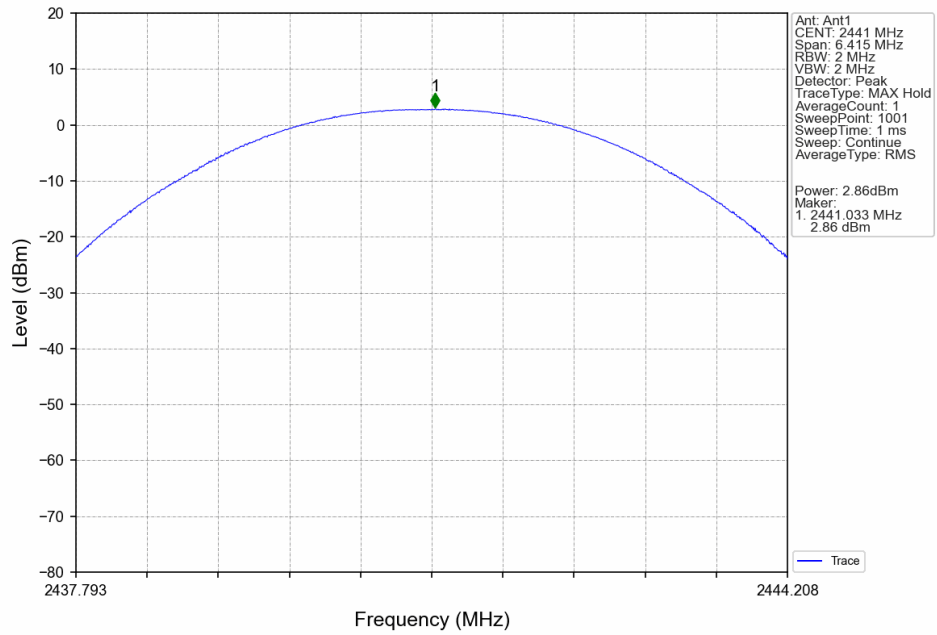
GFSK DH5 HCH 2480MHz Ant1 NTNV



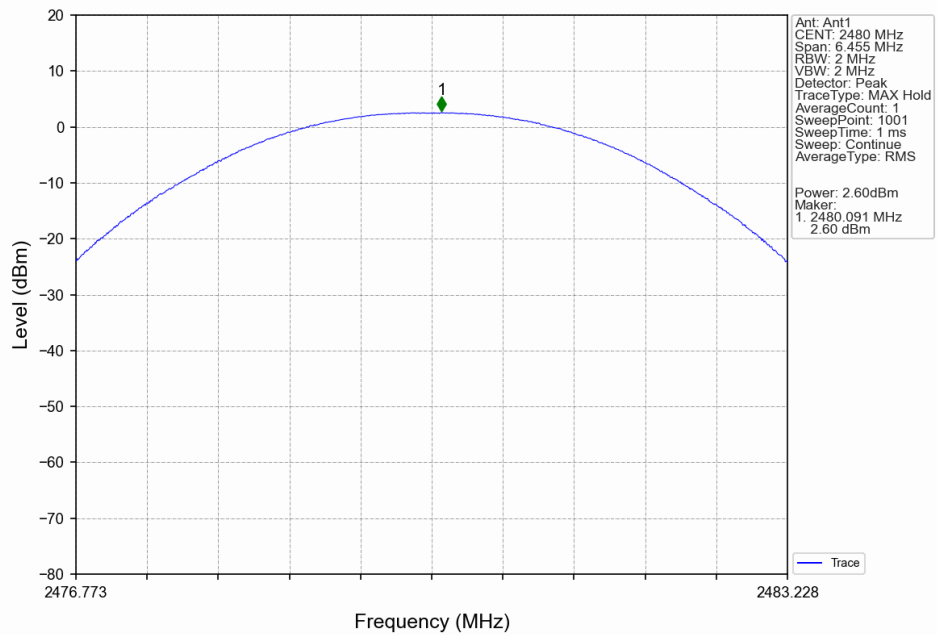
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTNV



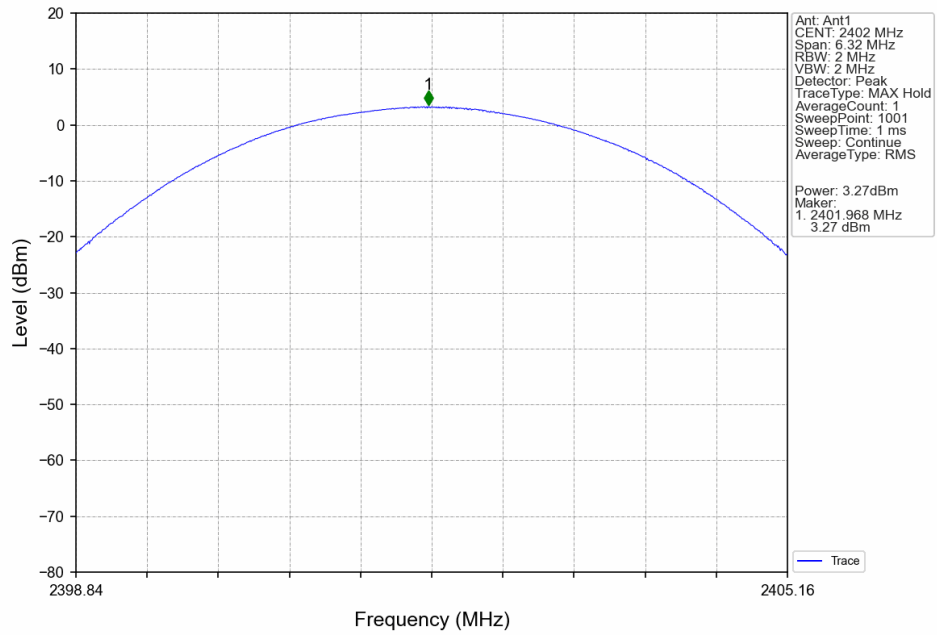
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTNV



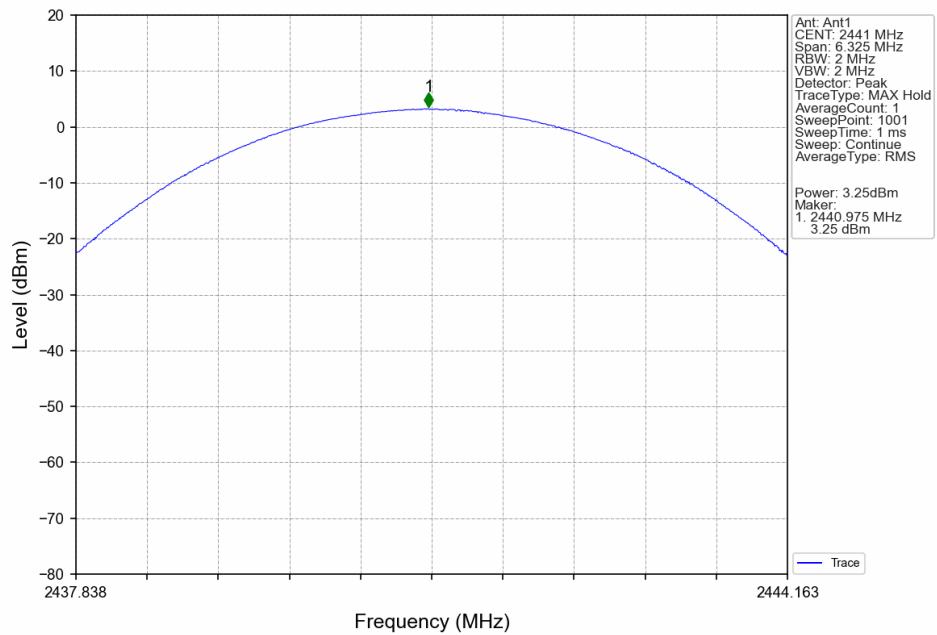
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTNV



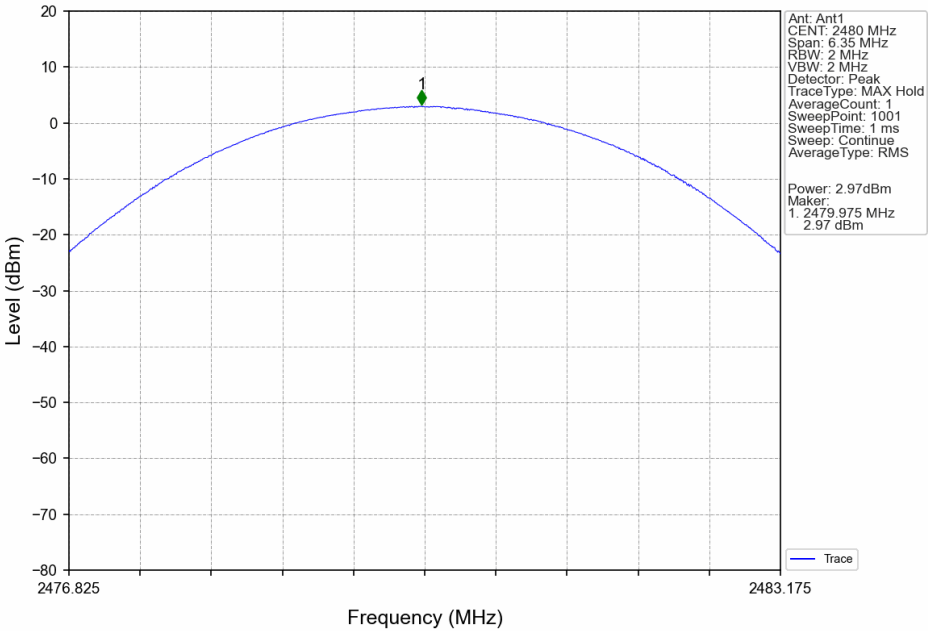
8DPSK 3DH5 LCH 2402MHz Ant1 NTN



8DPSK 3DH5 MCH 2441MHz Ant1 NTN



8DPSK 3DH5 HCH 2480MHz Ant1 NTN



3. Carrier Frequency Separation

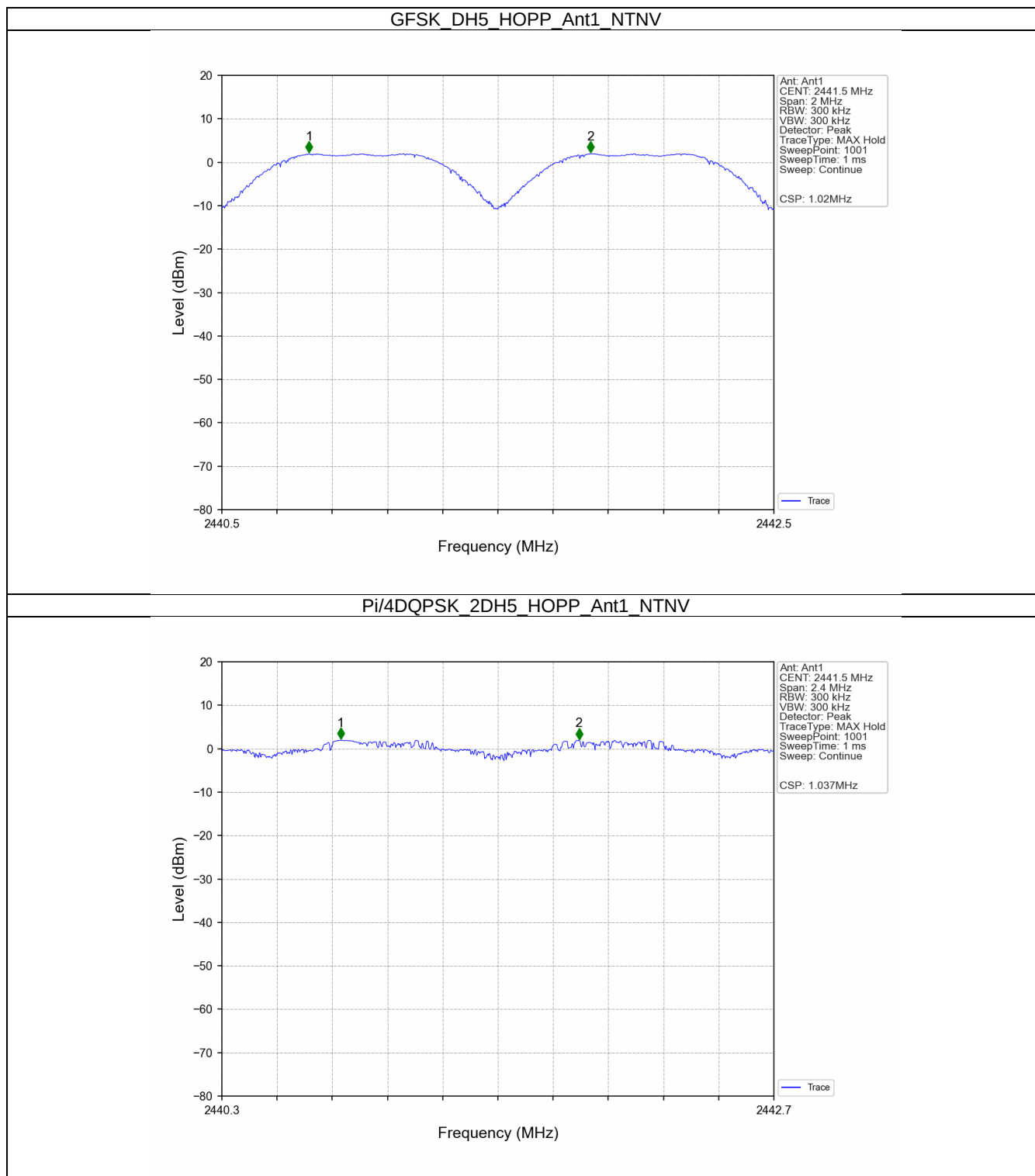
3.1 Test Result

3.1.1 Ant1

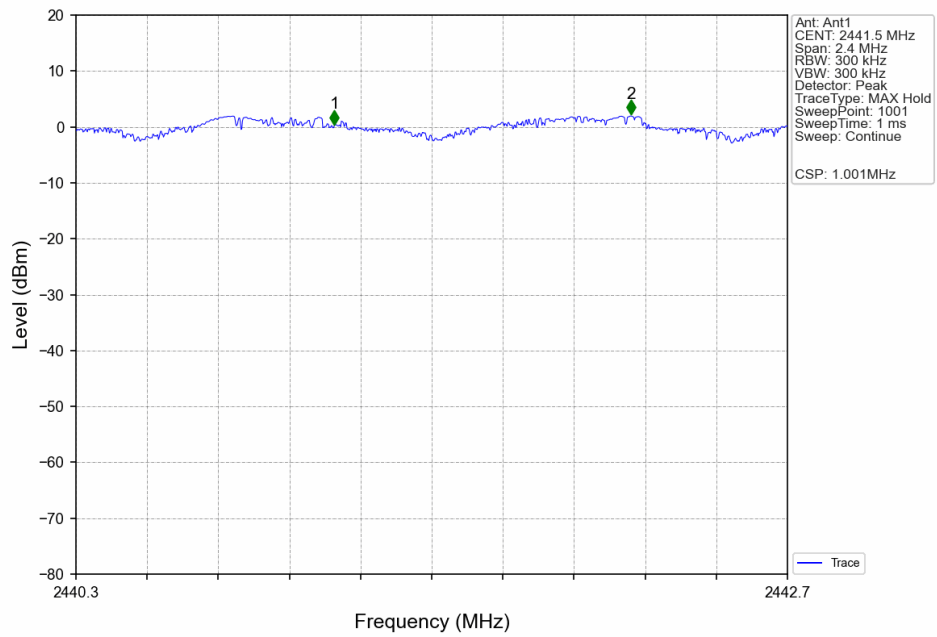
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.020	0.963	≥ 0.963	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.037	1.291	≥ 0.861	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.270	≥ 0.847	Pass

3.2 Test Graph

3.2.1 Ant1



8DPSK 3DH5 HOPP Ant1 NTN



4. Number of Hopping Frequencies

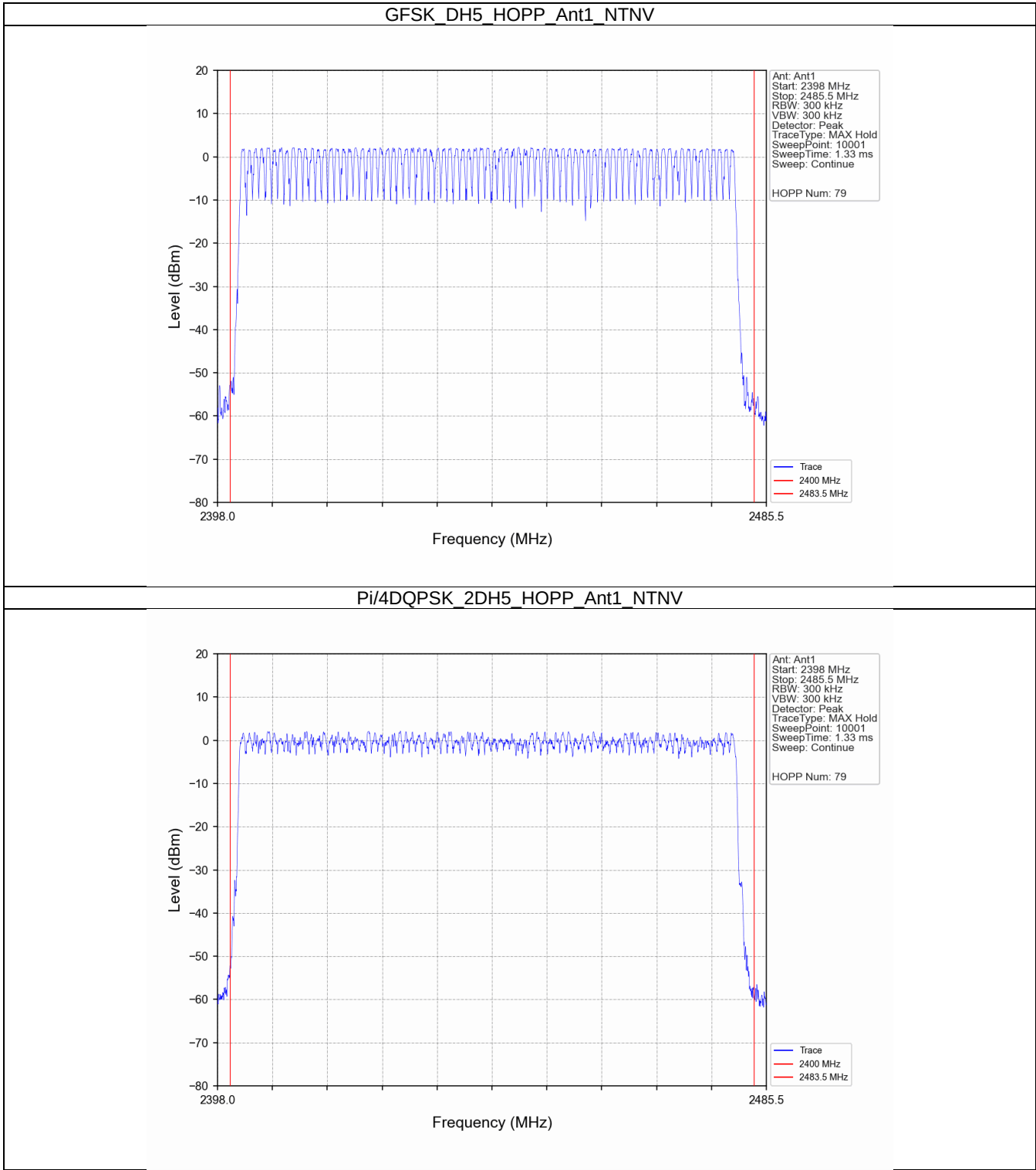
4.1 Test Result

4.1.1 HoppNum

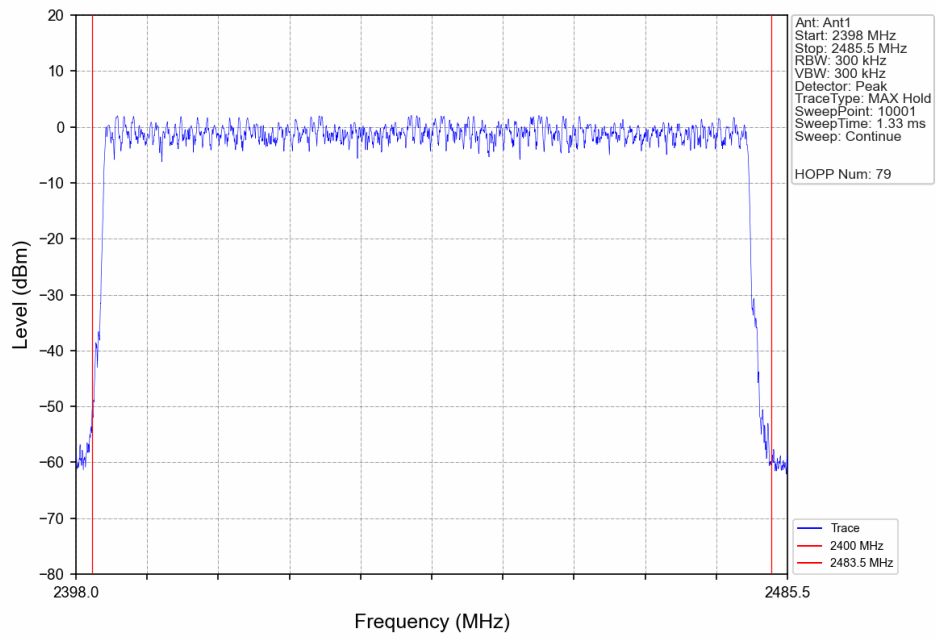
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

4.2 Test Graph

4.2.1 HoppNum



8DPSK 3DH5 HOPP Ant1 NTNV



5. Time of Occupancy (Dwell Time)

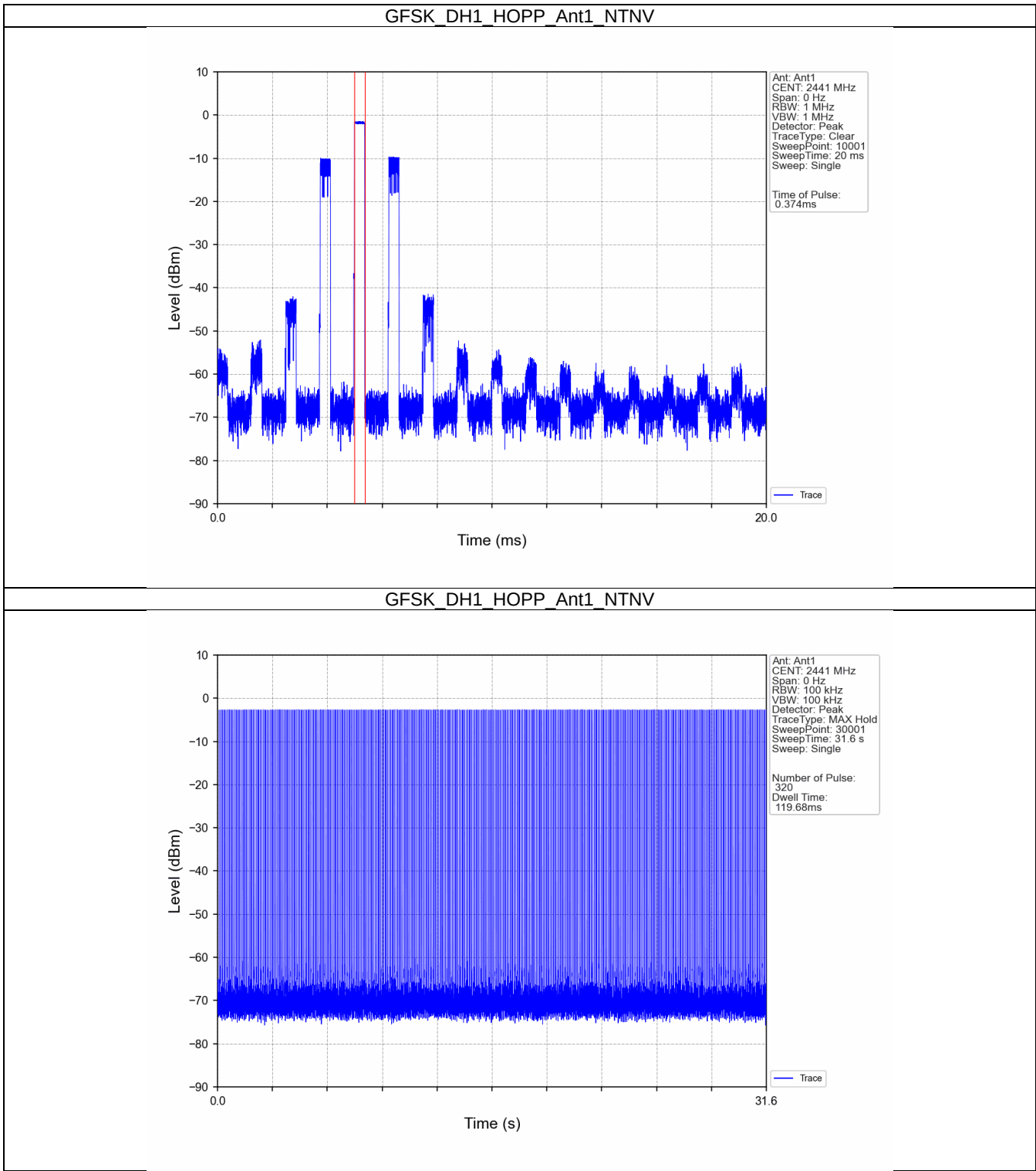
5.1 Test Result

5.1.1 Ant1

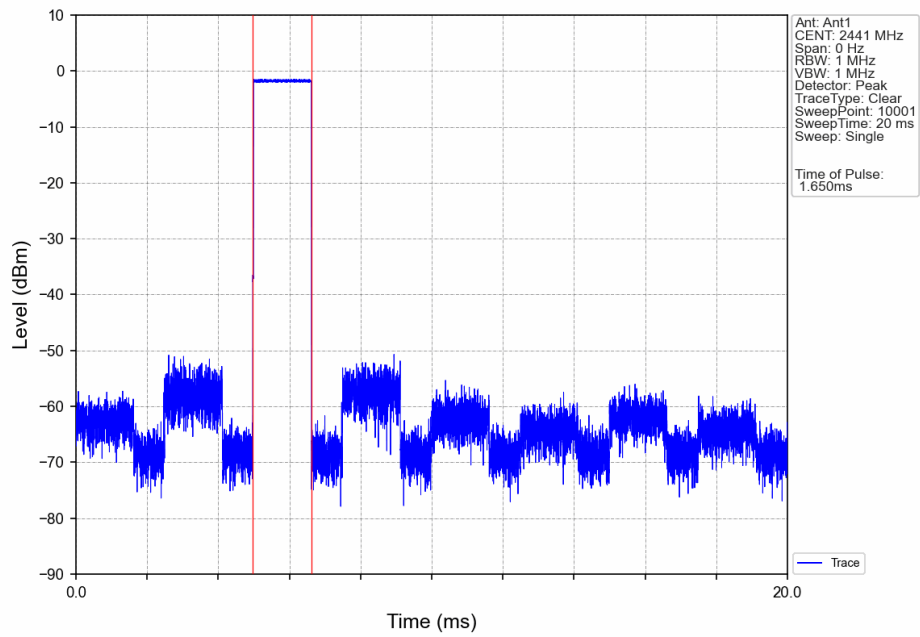
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.374	31.600	320	119.680	<=400	Pass
			DH3	1.650	31.600	160	264.000	<=400	Pass
			DH5	2.898	31.600	107	310.086	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.380	31.600	320	121.600	<=400	Pass
			2DH3	1.664	31.600	160	266.240	<=400	Pass
			2DH5	2.912	31.600	107	311.584	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.382	31.600	320	122.240	<=400	Pass
			3DH3	1.660	31.600	160	265.600	<=400	Pass
			3DH5	2.912	31.600	107	311.584	<=400	Pass

5.2 Test Graph

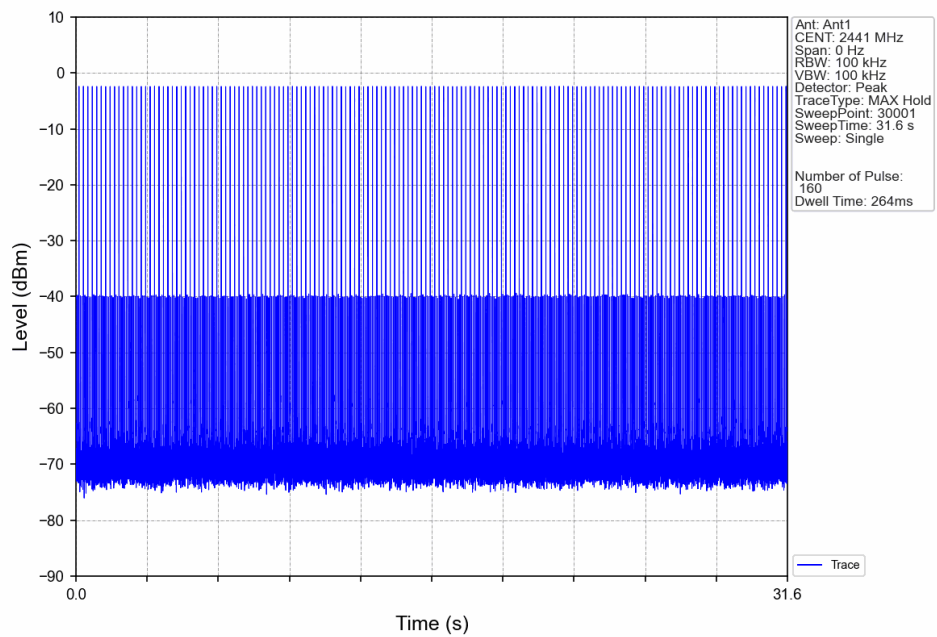
5.2.1 Ant1



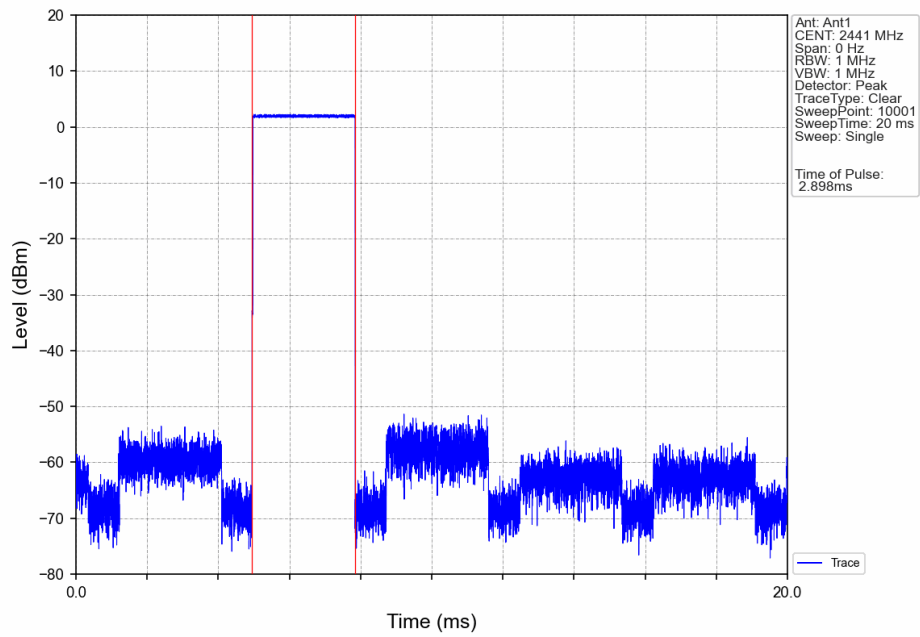
GFSK DH3 HOPP Ant1 NTN



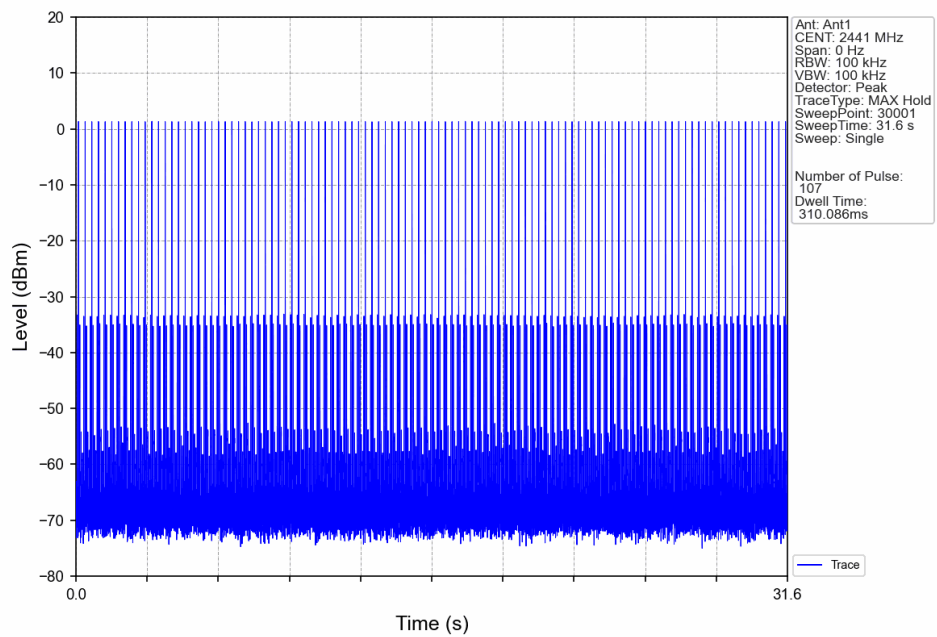
GFSK DH3 HOPP Ant1 NTN



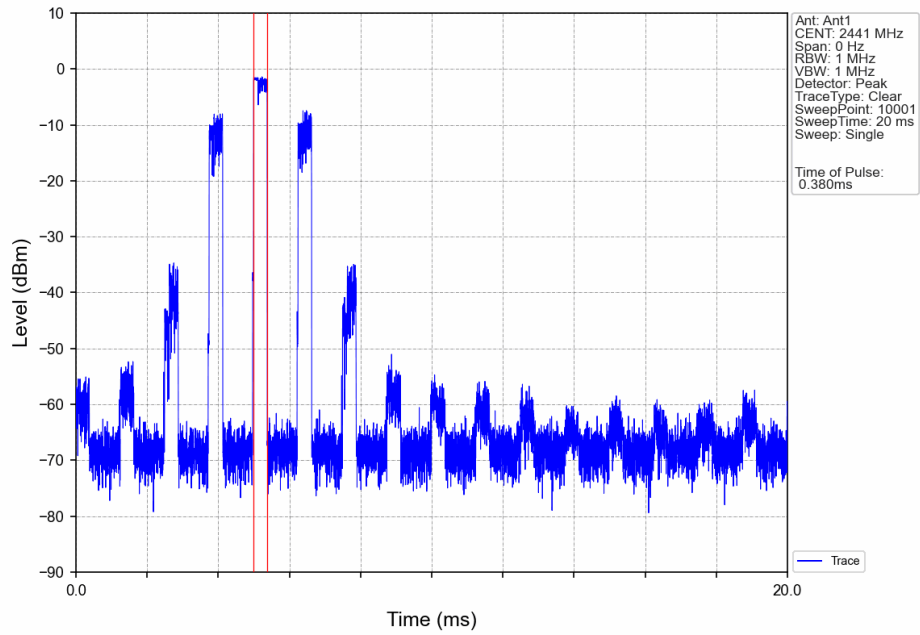
GFSK DH5 HOPP Ant1 NTN



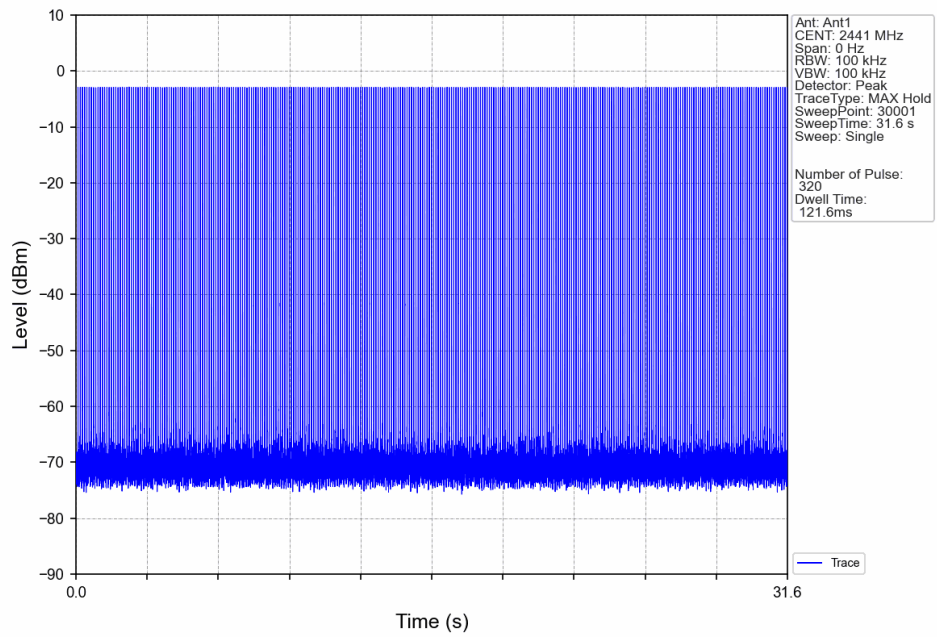
GFSK DH5 HOPP Ant1 NTN



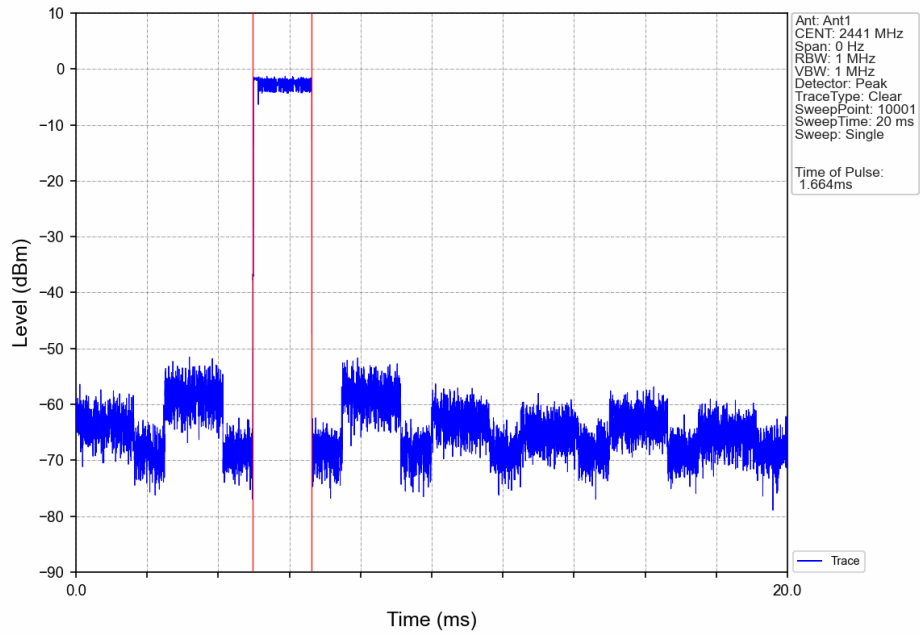
Pi/4DQPSK 2DH1 HOPP Ant1 NTN



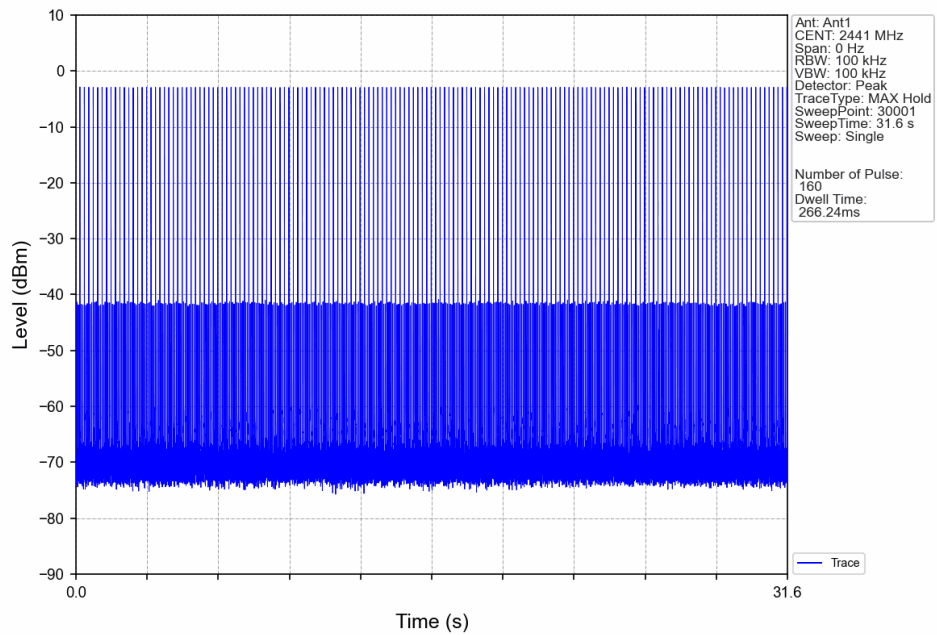
Pi/4DQPSK 2DH1 HOPP Ant1 NTN



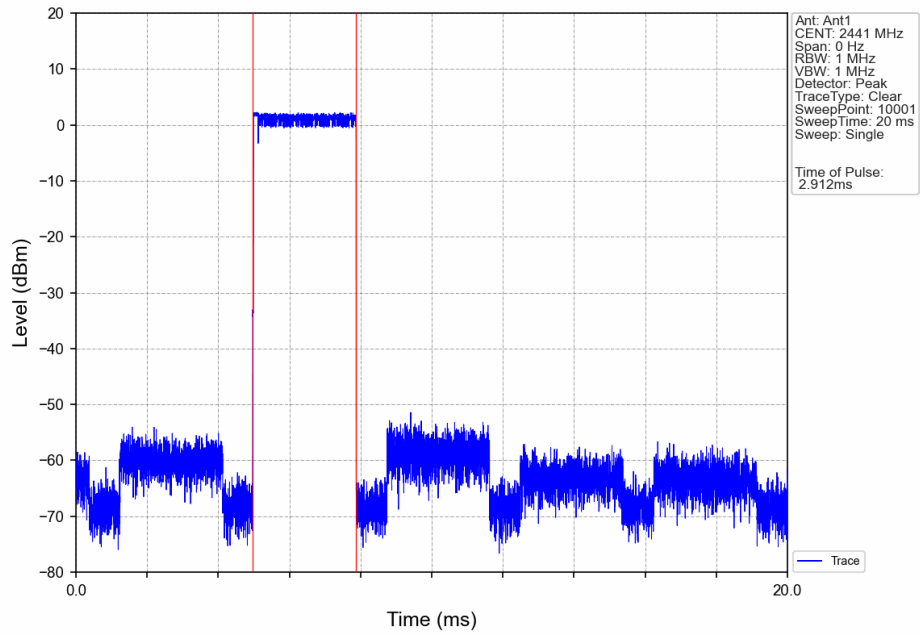
Pi/4DQPSK 2DH3 HOPP Ant1 NTN



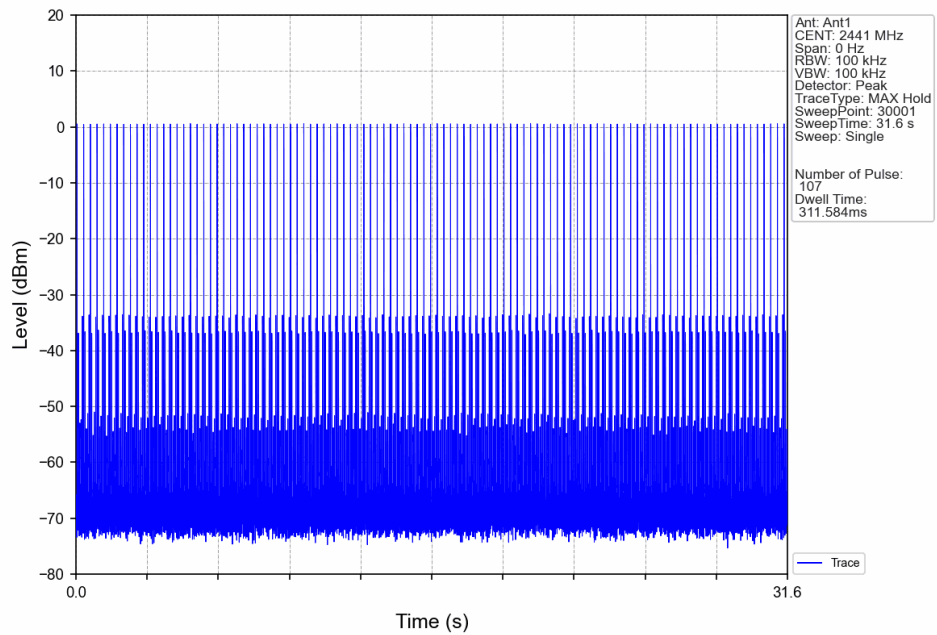
Pi/4DQPSK 2DH3 HOPP Ant1 NTN



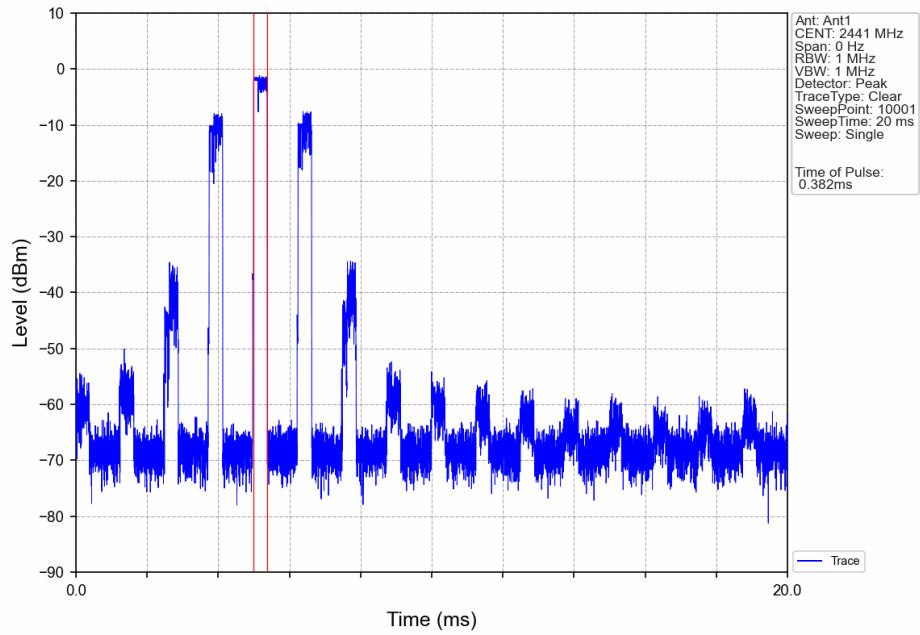
Pi/4DQPSK 2DH5 HOPP Ant1 NTN



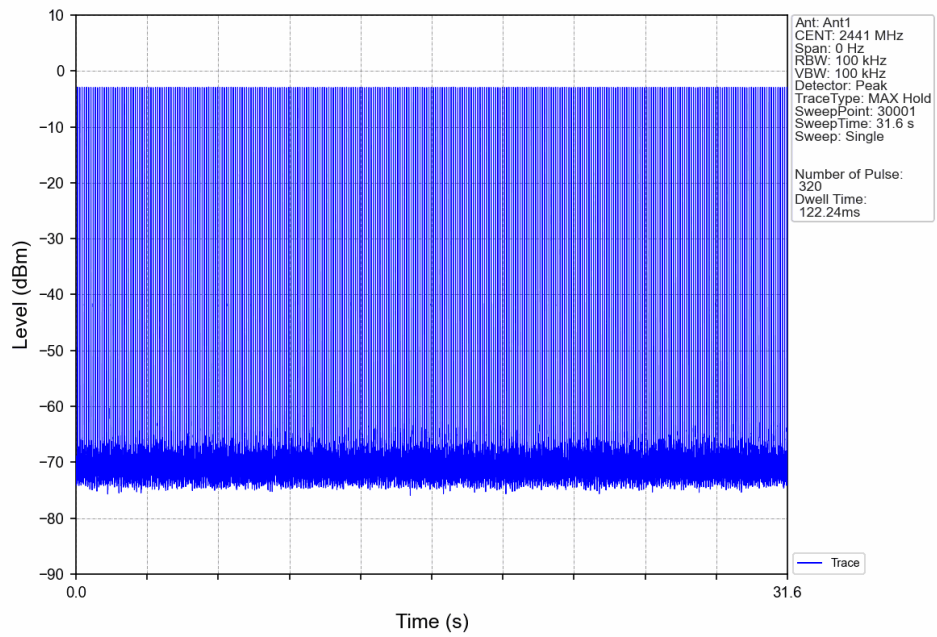
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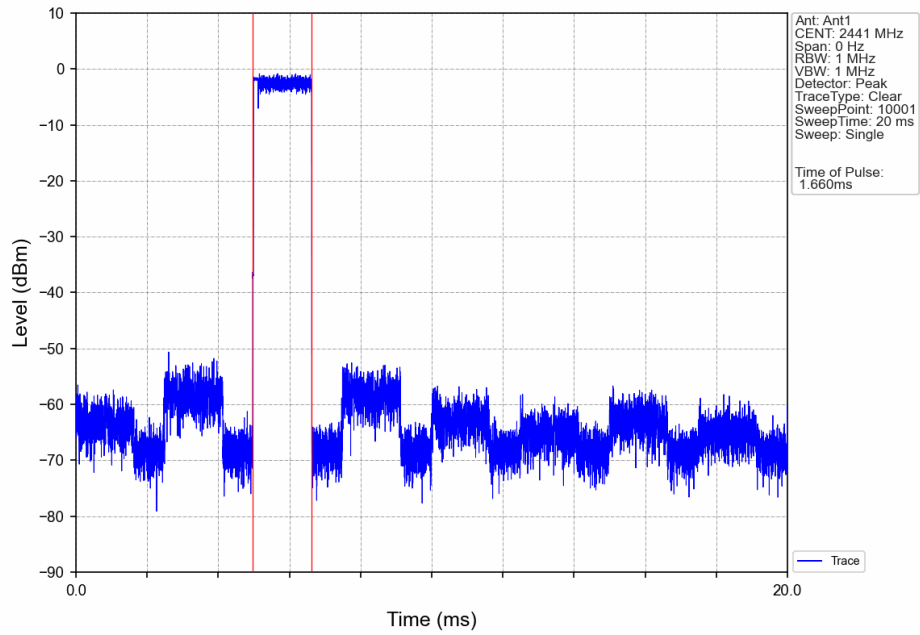
8DPSK 3DH1 HOPP Ant1 NTNV



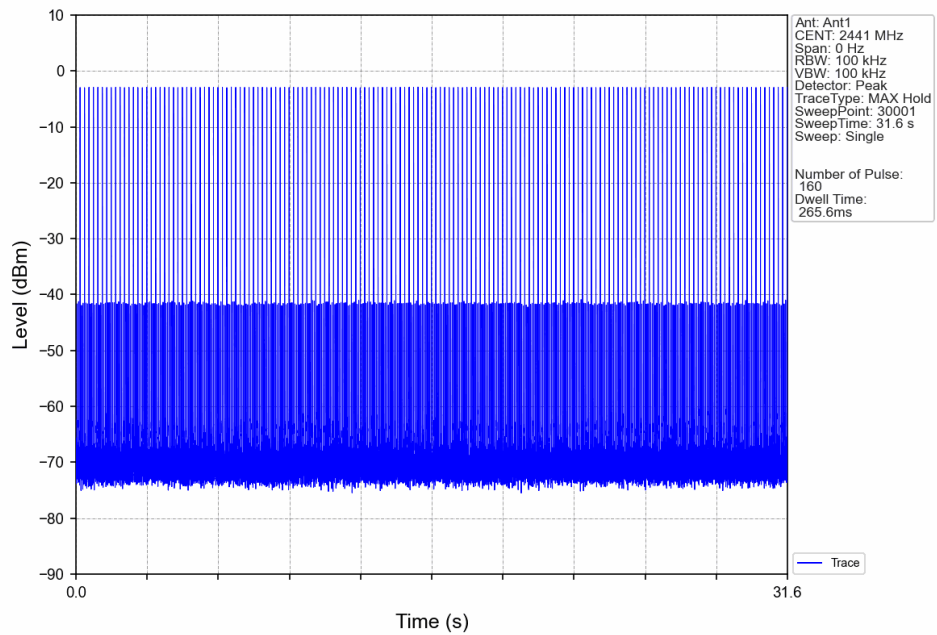
8DPSK 3DH1 HOPP Ant1 NTNV



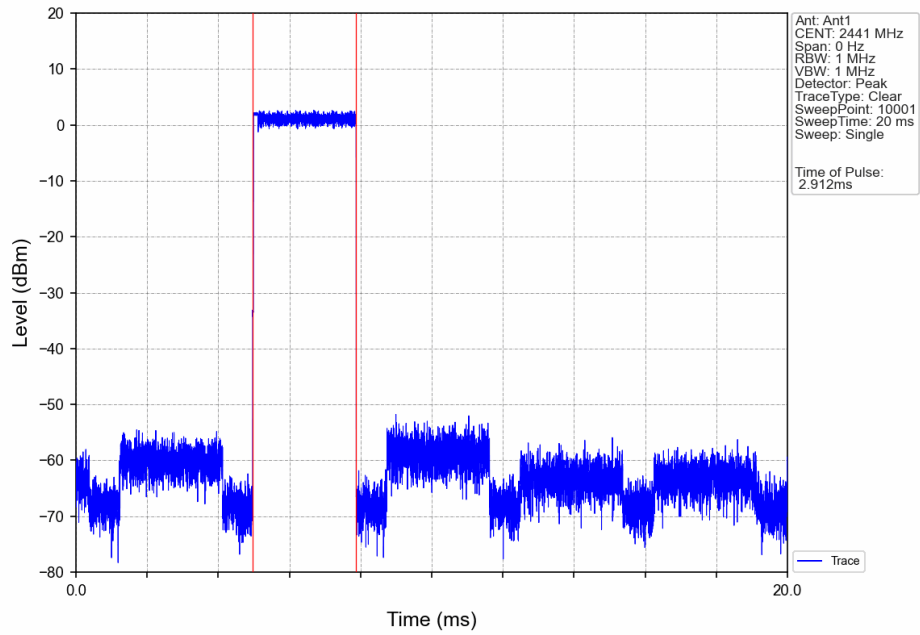
8DPSK 3DH3 HOPP Ant1 NTNV



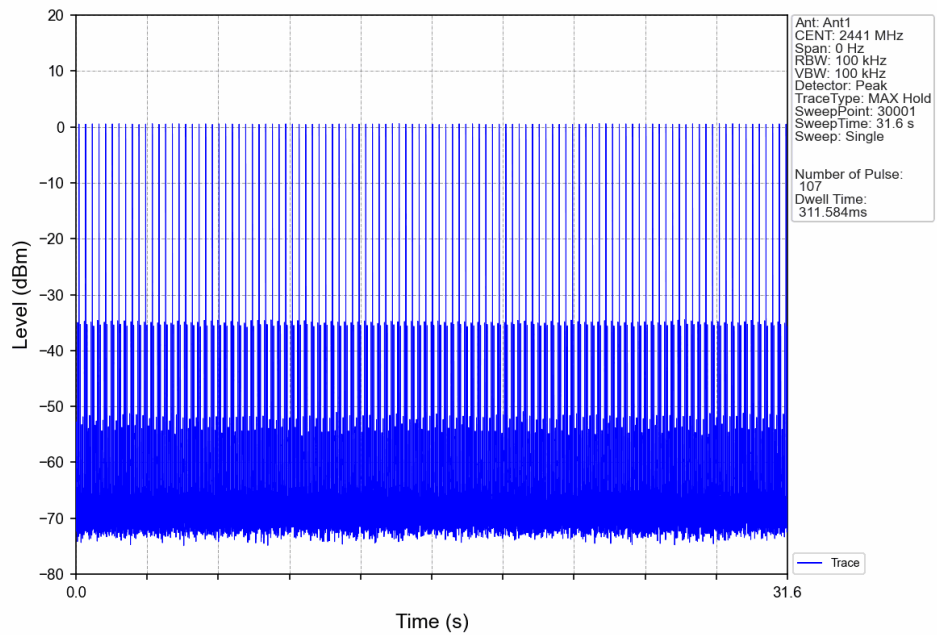
8DPSK 3DH3 HOPP Ant1 NTNV



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

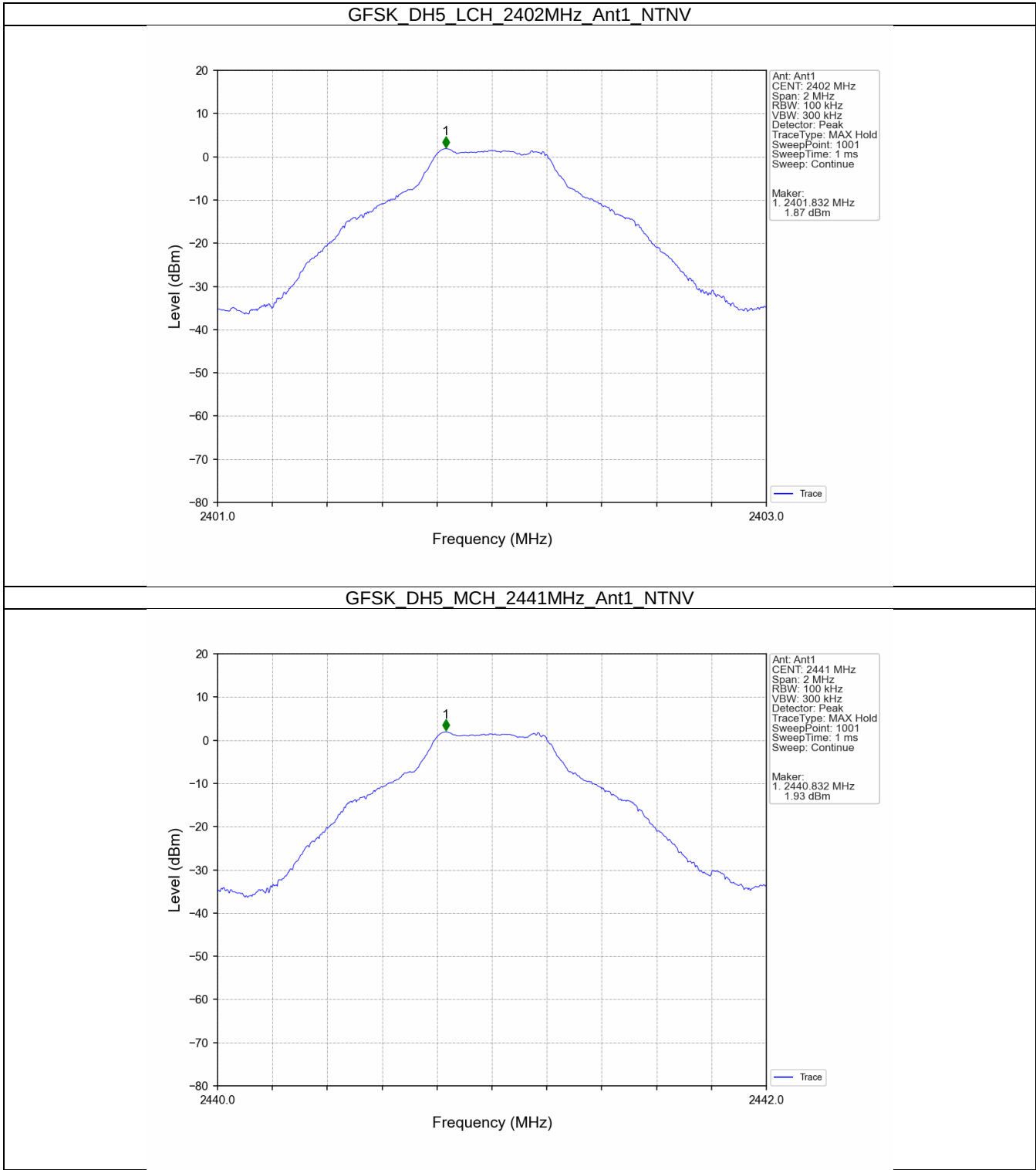
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	1.87
		2441	DH5	1	1.93
		2480	DH5	1	1.71
		HOPP	DH5	1	1.98
					1.98
Pi/4DQPSK	SISO	2402	2DH5	1	1.76
		2441	2DH5	1	1.79
		2480	2DH5	1	1.46
		HOPP	2DH5	1	1.87
					1.87
8DPSK	SISO	2402	3DH5	1	1.92
		2441	3DH5	1	1.96
		2480	3DH5	1	1.71
		HOPP	3DH5	1	1.99
					1.99

6.1.2 CSE

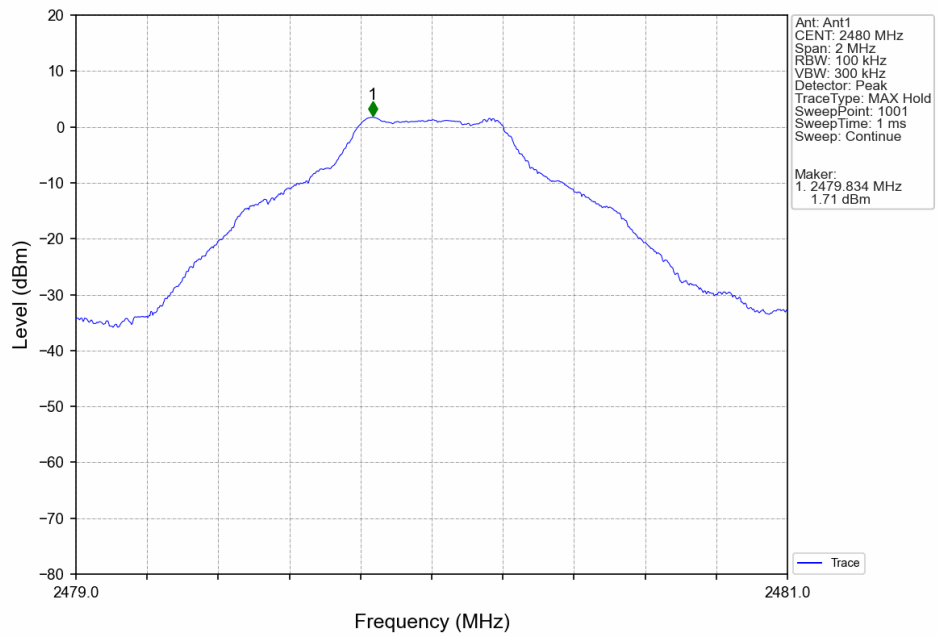
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	1.87	-18.13	Pass
		2441	DH5	1	1.93	-18.07	Pass
		2480	DH5	1	1.71	-18.29	Pass
		HOPP	DH5	1	1.98	-18.02	Pass
					1.98	-18.02	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.76	-18.24	Pass
		2441	2DH5	1	1.79	-18.21	Pass
		2480	2DH5	1	1.46	-18.54	Pass
		HOPP	2DH5	1	1.87	-18.13	Pass
					1.87	-18.13	Pass
8DPSK	SISO	2402	3DH5	1	1.92	-18.08	Pass
		2441	3DH5	1	1.96	-18.04	Pass
		2480	3DH5	1	1.71	-18.29	Pass
		HOPP	3DH5	1	1.99	-18.01	Pass
					1.99	-18.01	Pass

6.2 Test Graph

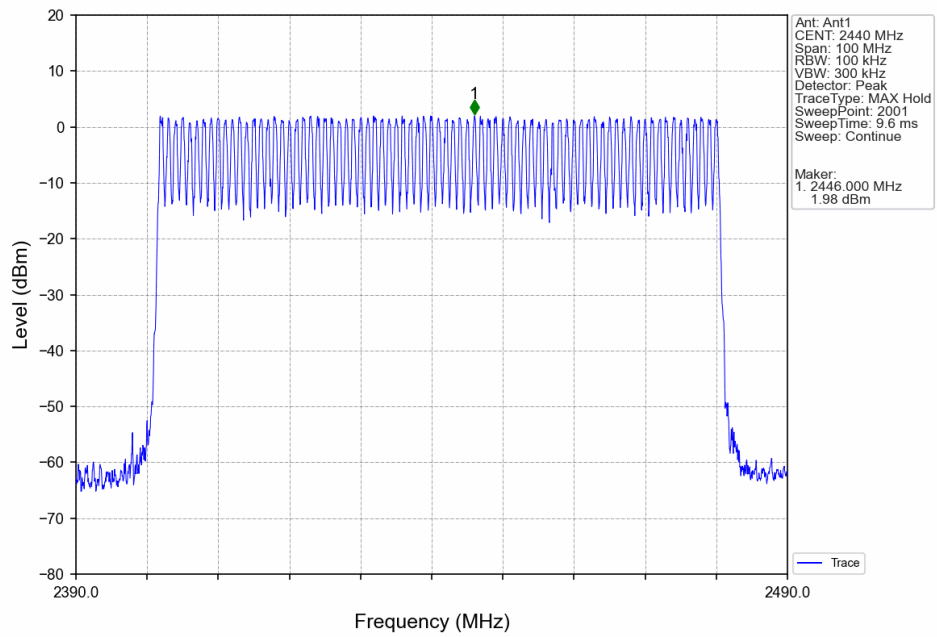
6.2.1 Ref



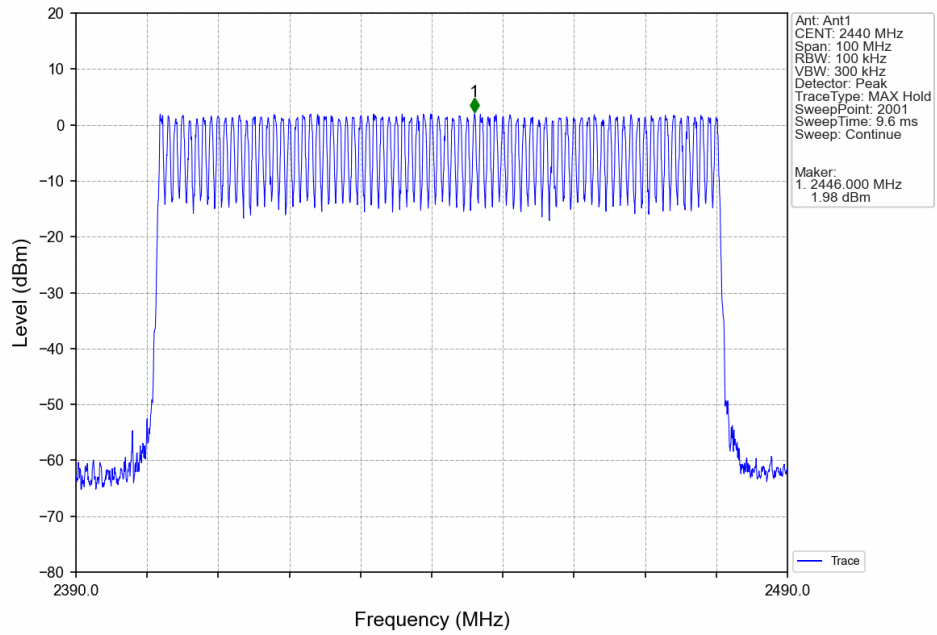
GFSK DH5 HCH 2480MHz Ant1 NTNV



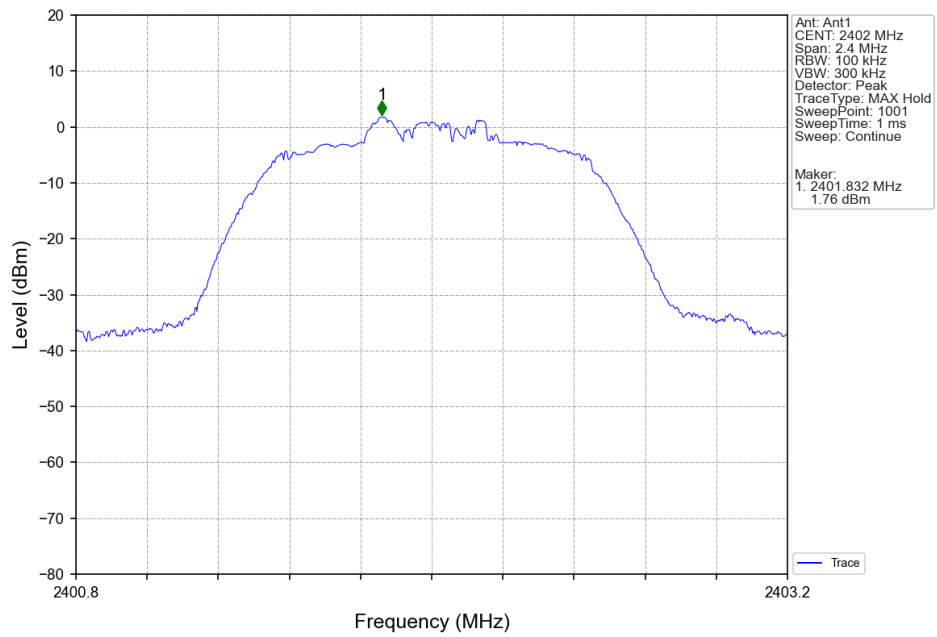
GFSK DH5 HOPP Ant1 NTNV



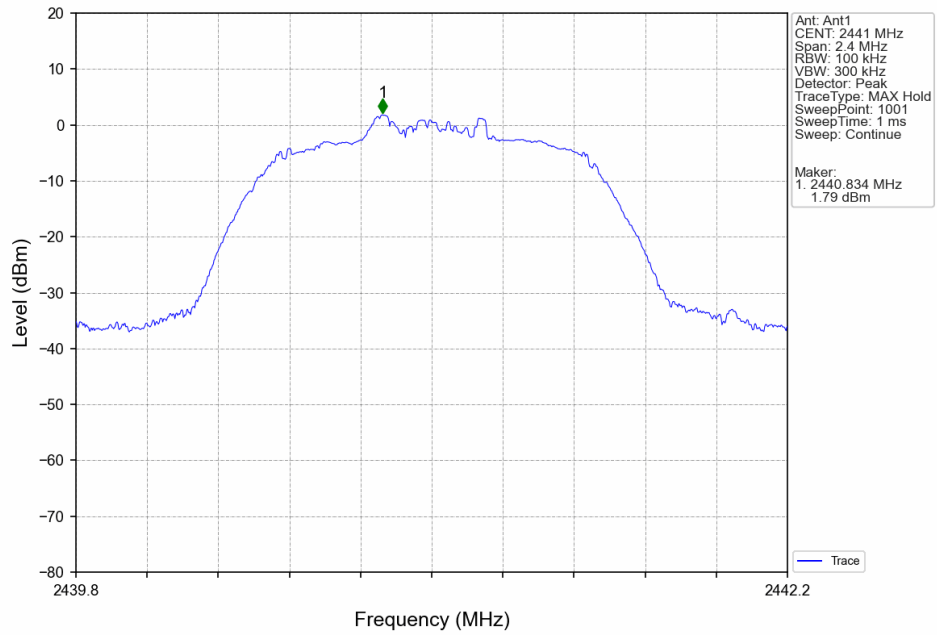
GFSK DH5 HOPP Ant1 NTNV



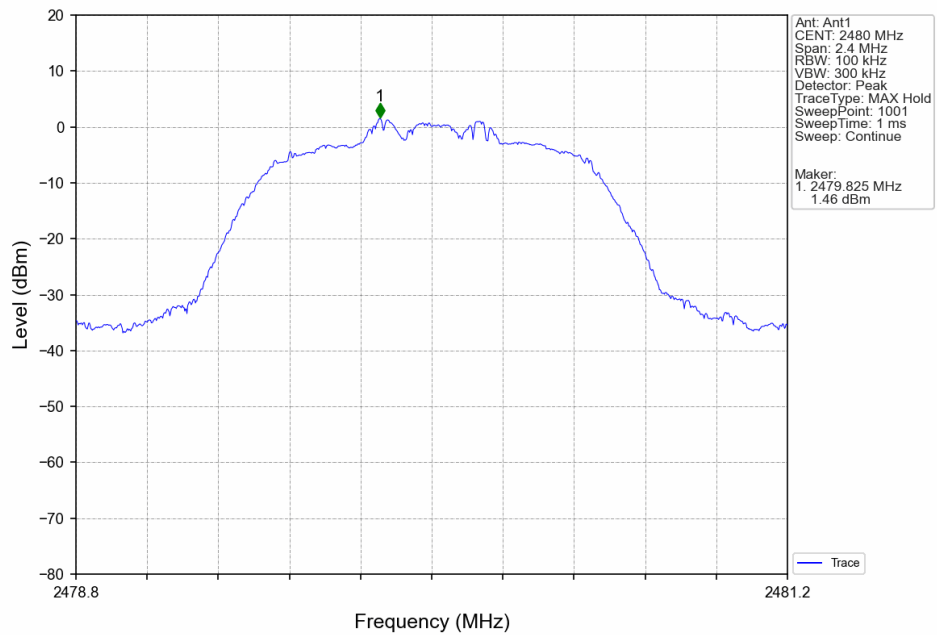
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTNV



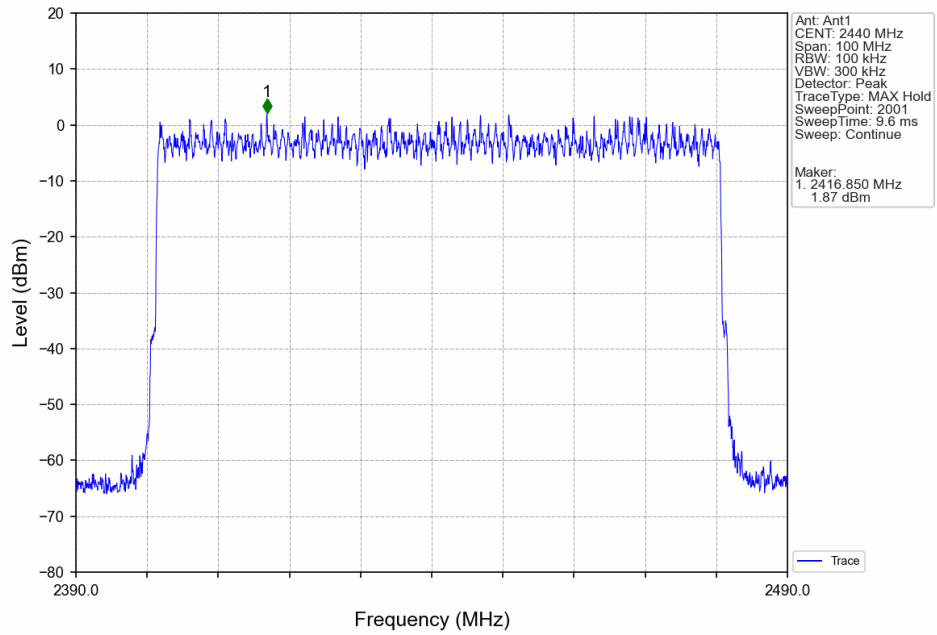
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTV



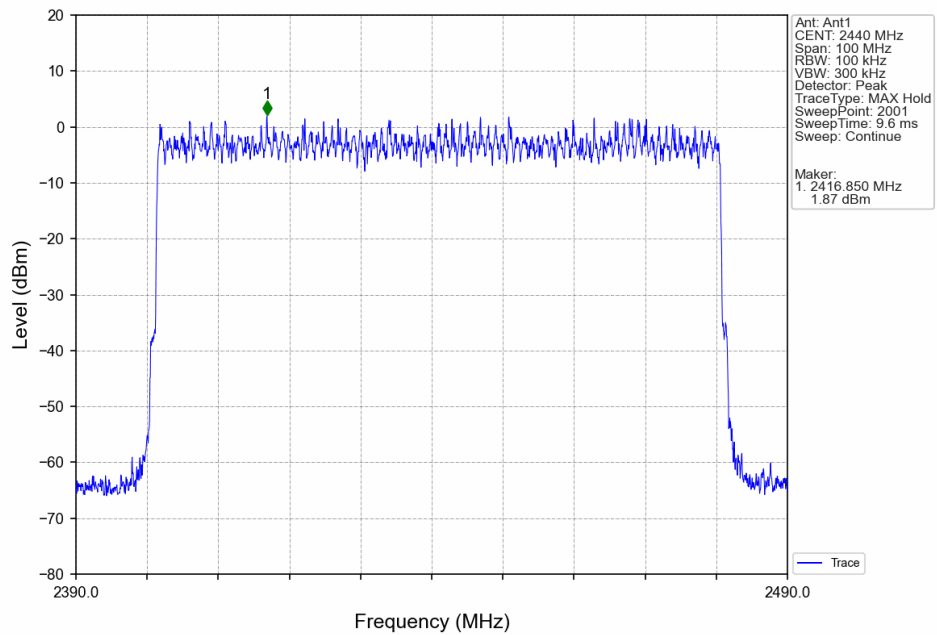
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTV



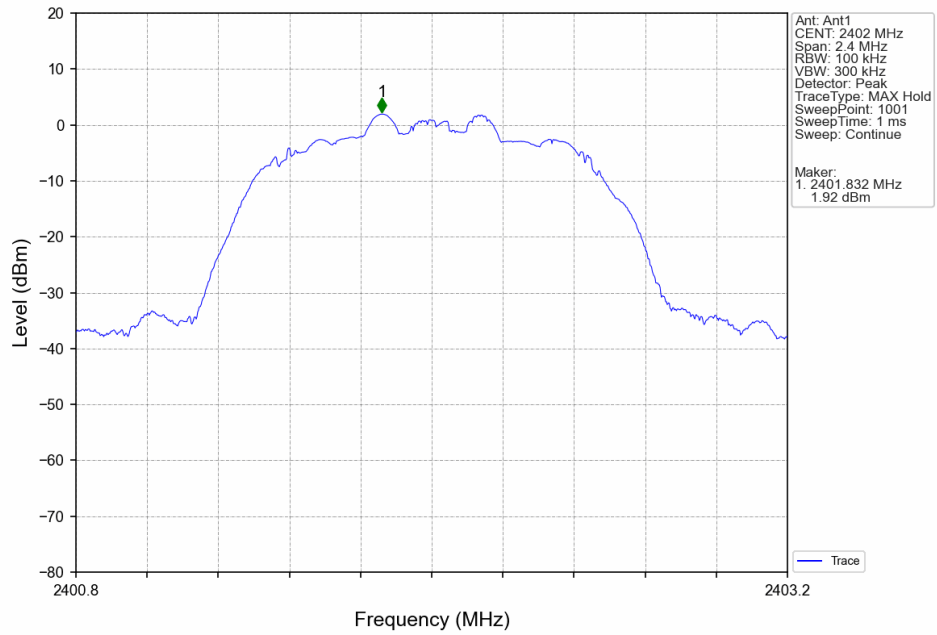
Pi/4DQPSK 2DH5 HOPP Ant1 NTN



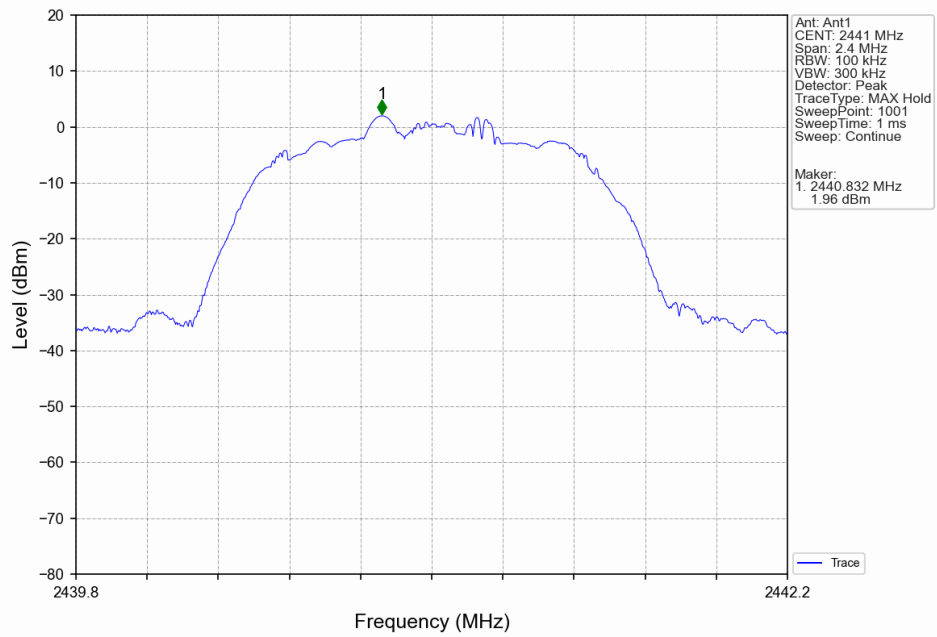
Pi/4DQPSK 2DH5 HOPP Ant1 NTN



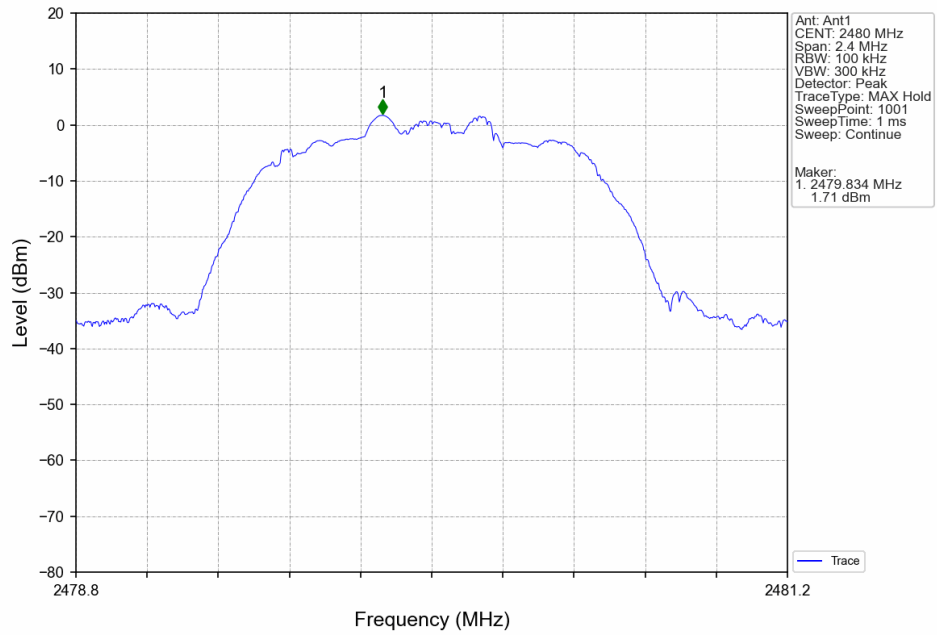
8DPSK 3DH5 LCH 2402MHz Ant1 NTV



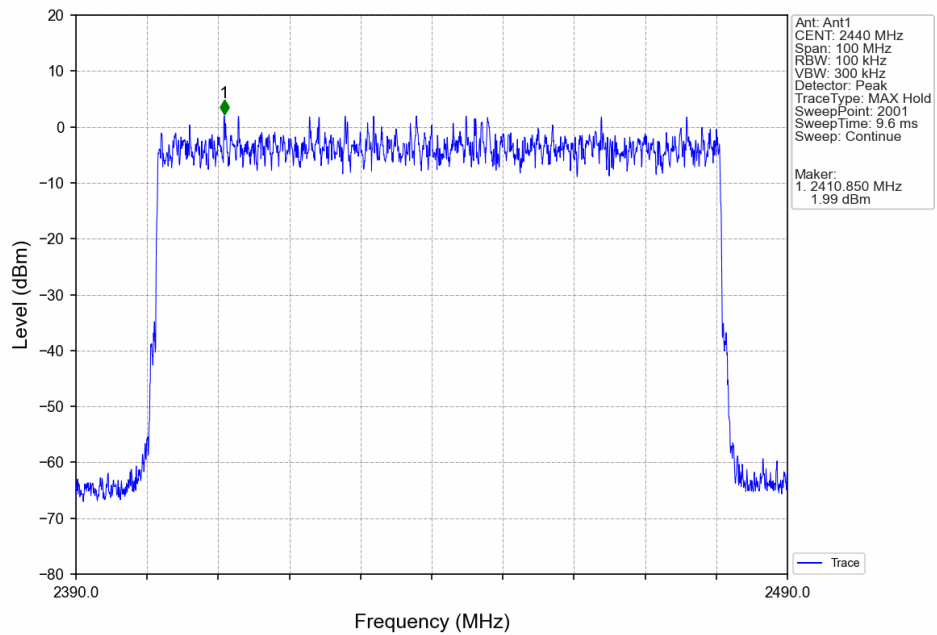
8DPSK 3DH5 MCH 2441MHz Ant1 NTV



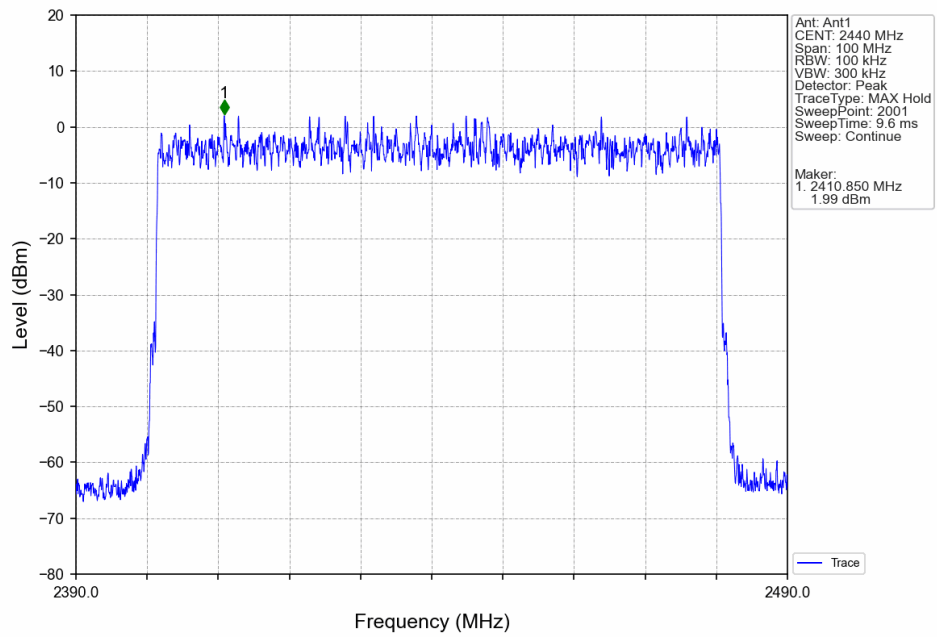
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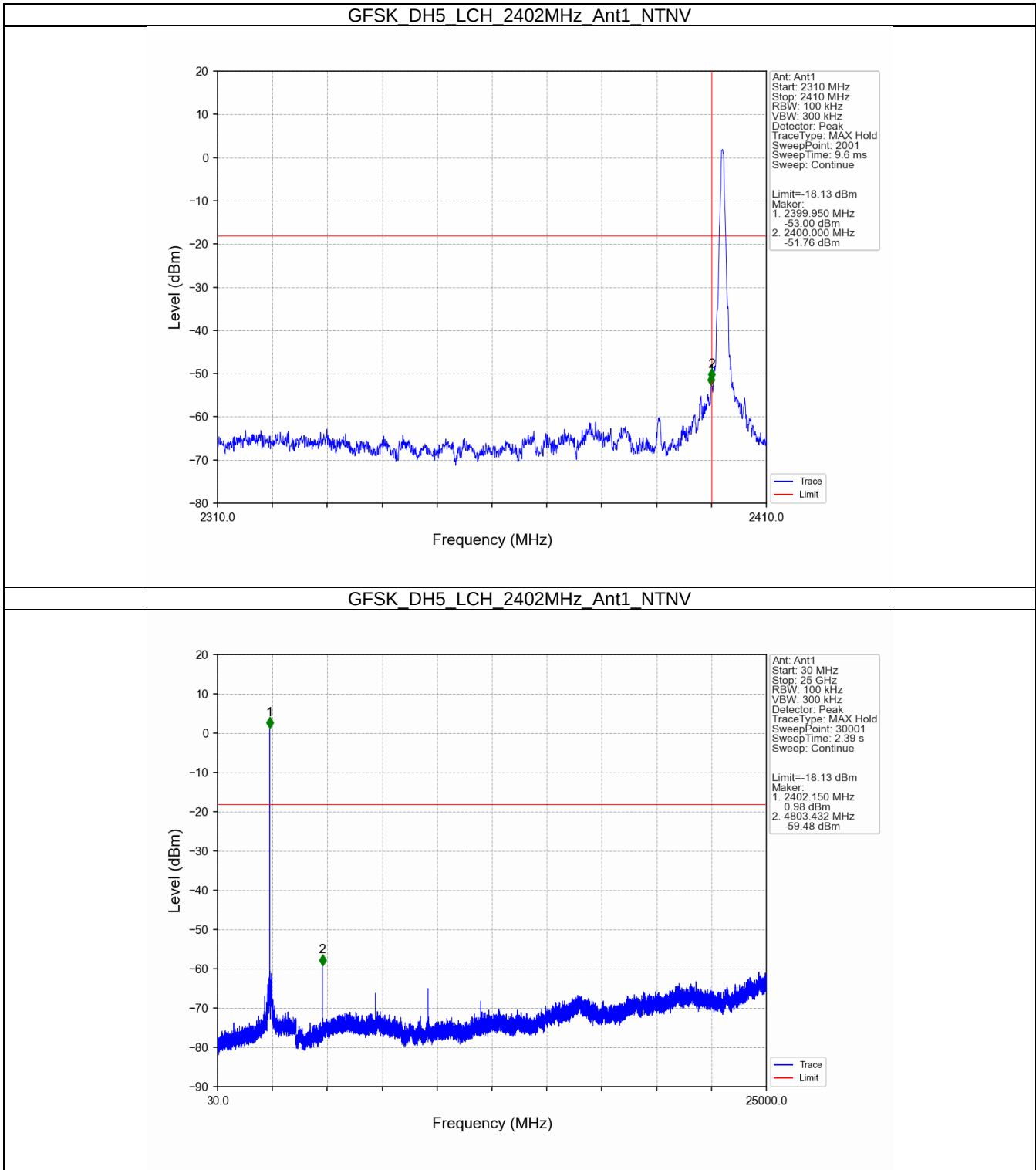
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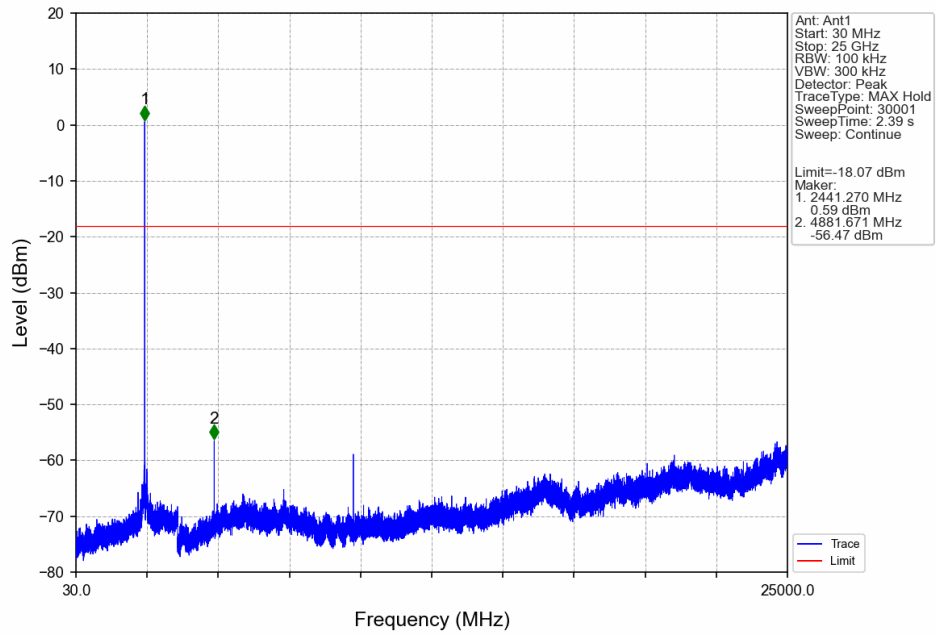
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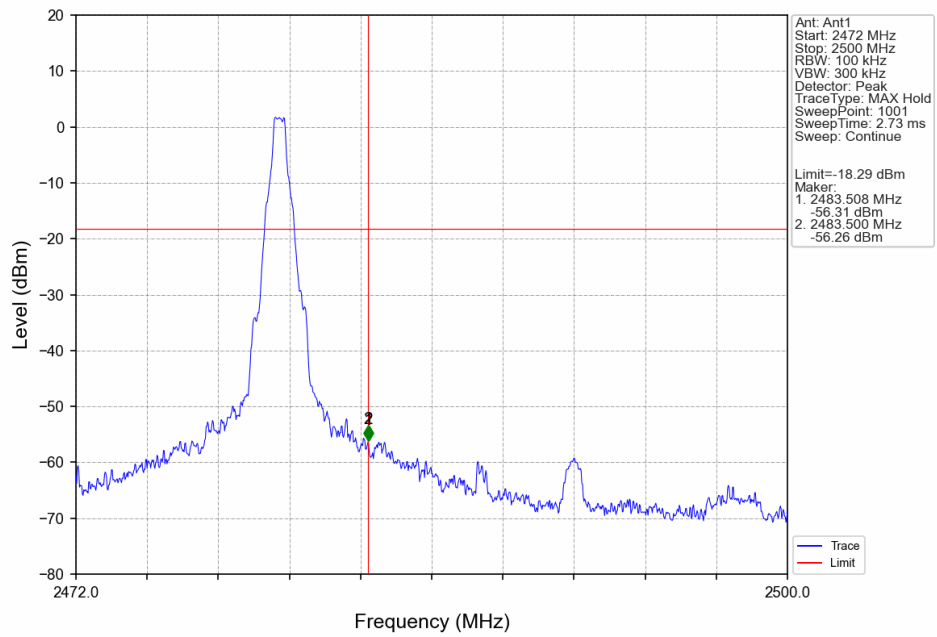
6.2.2 CSE



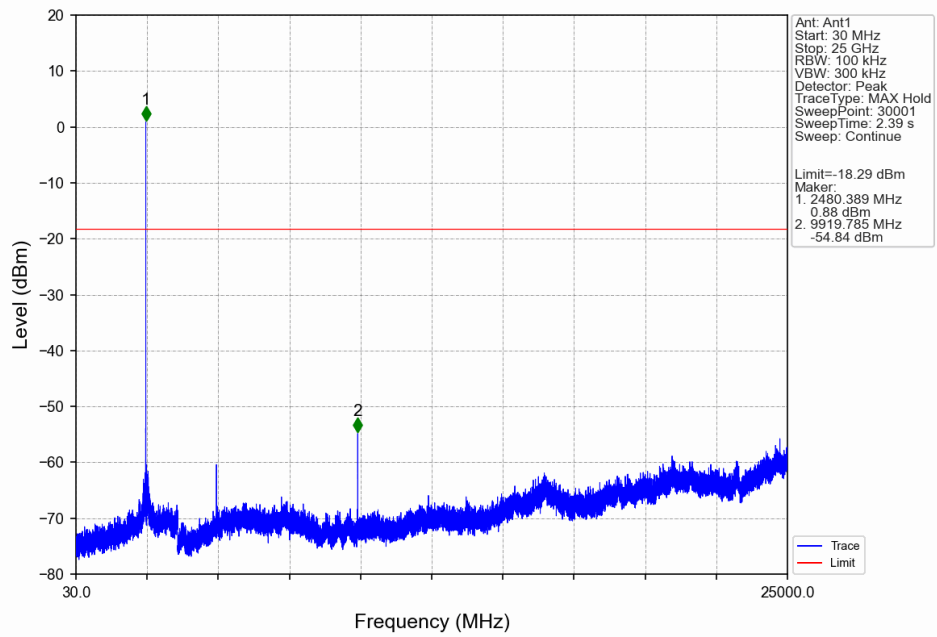
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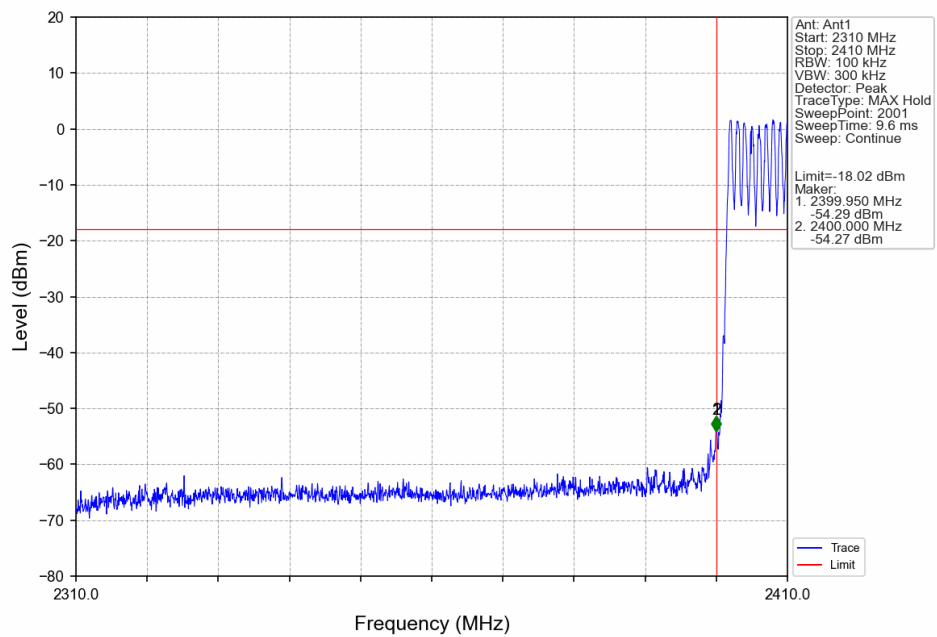
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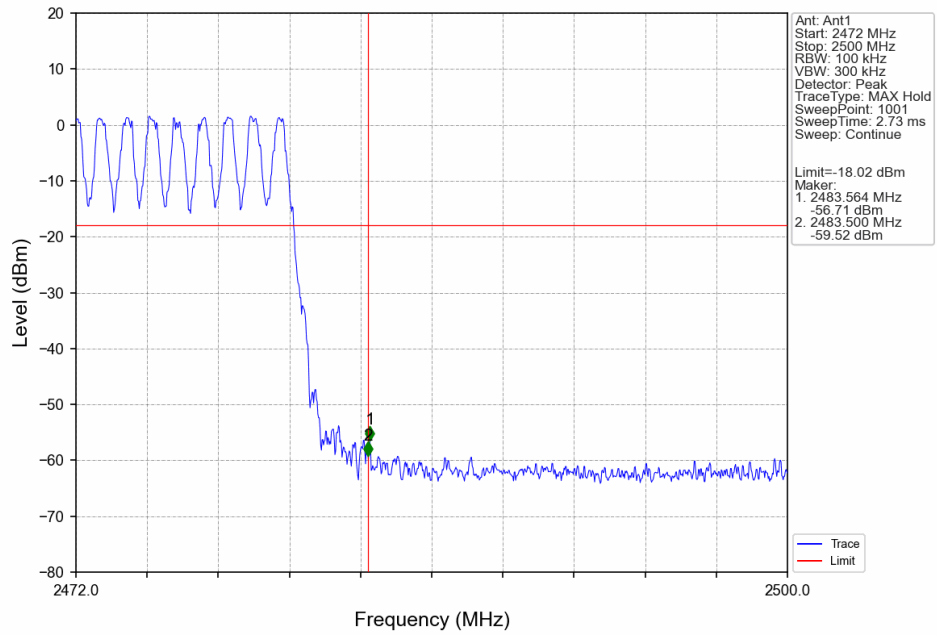
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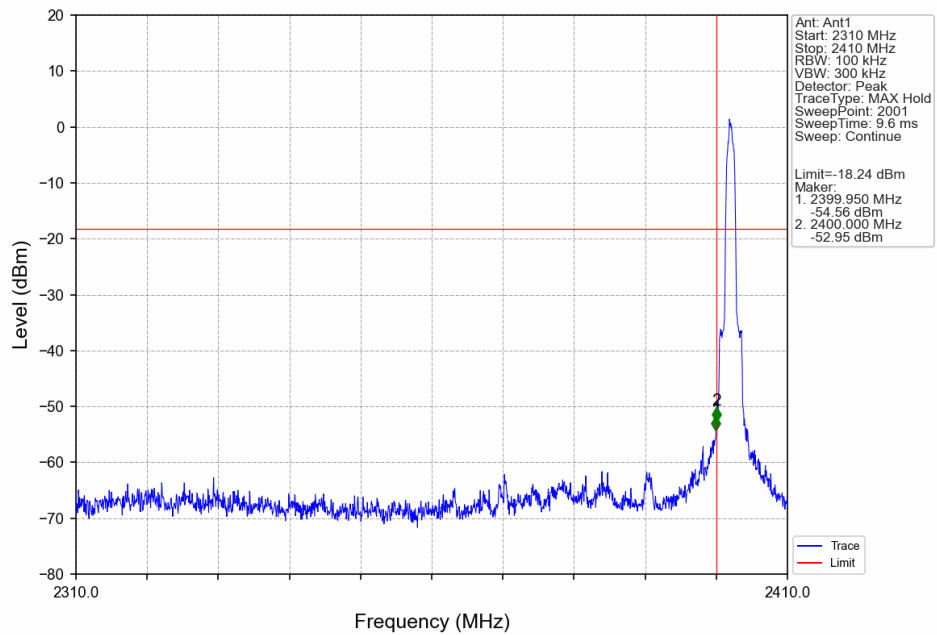
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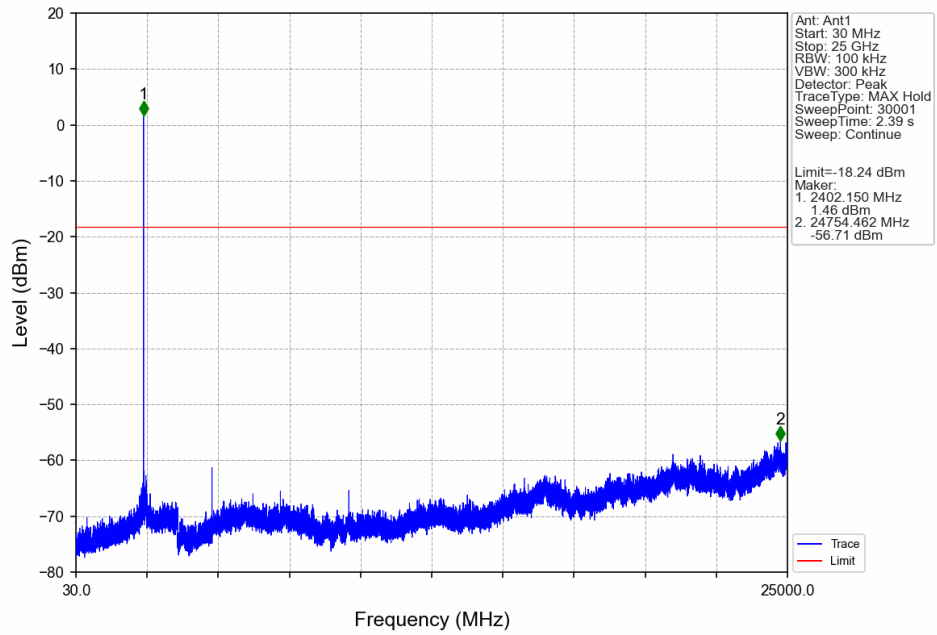
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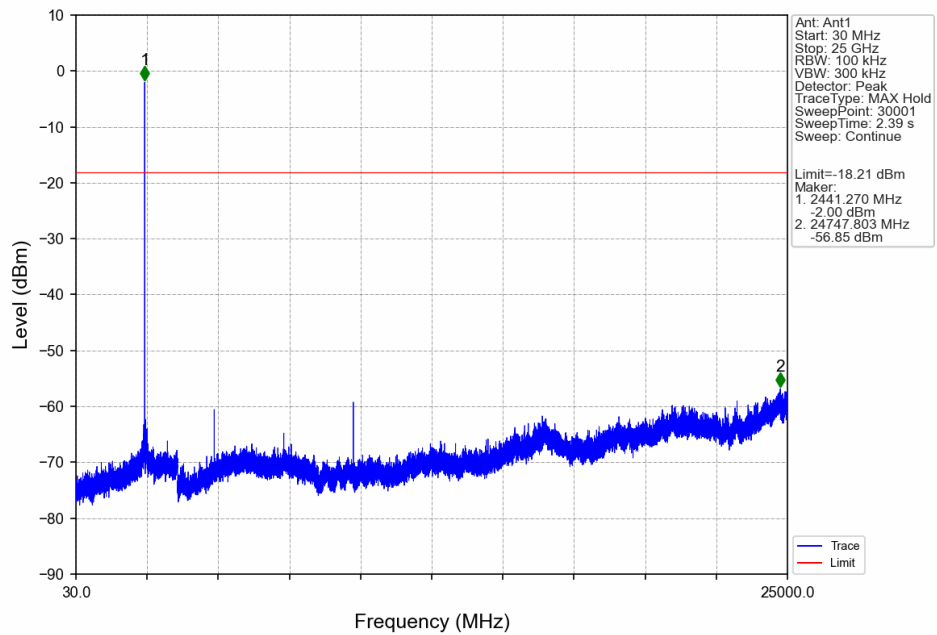
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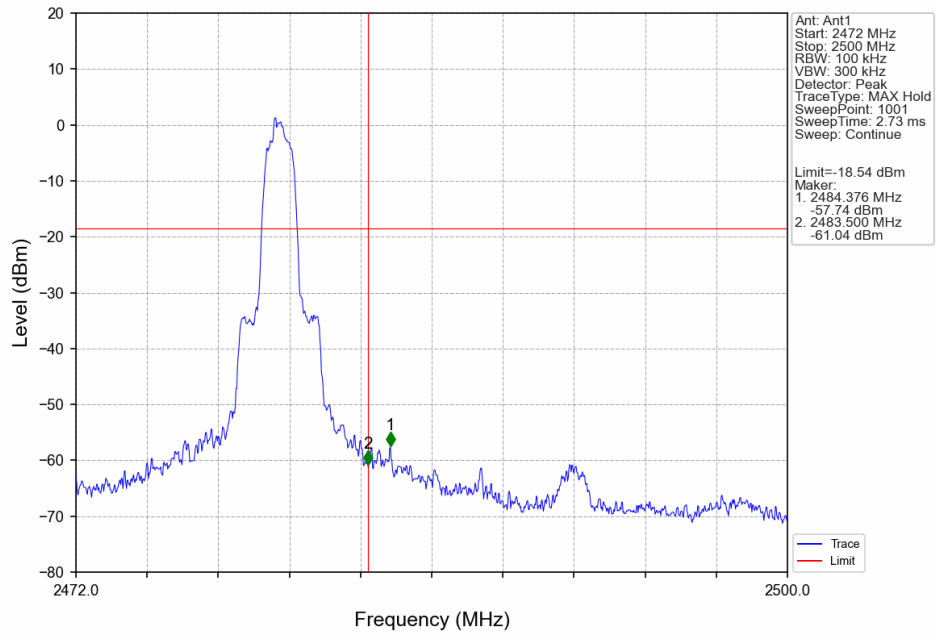
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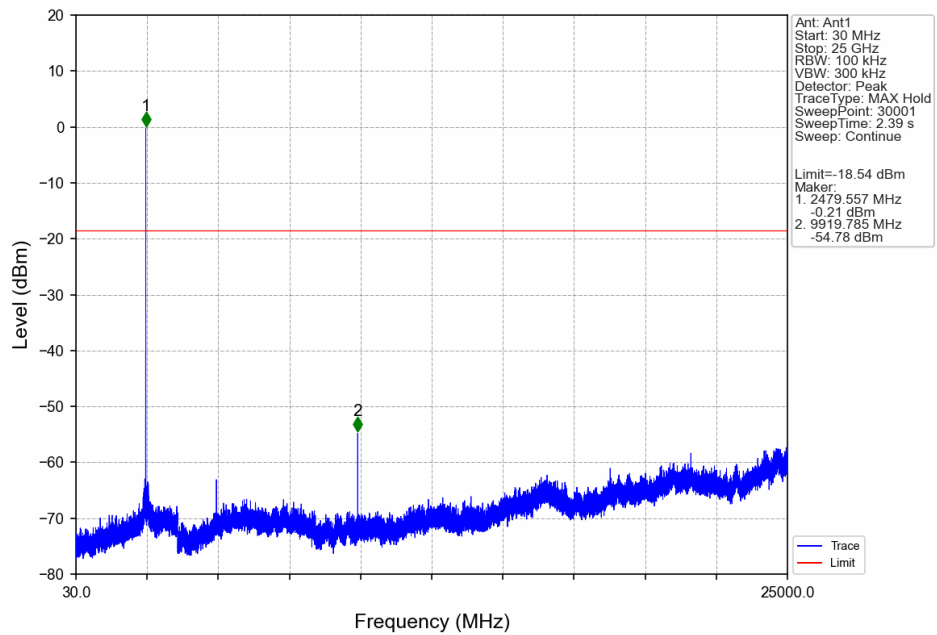
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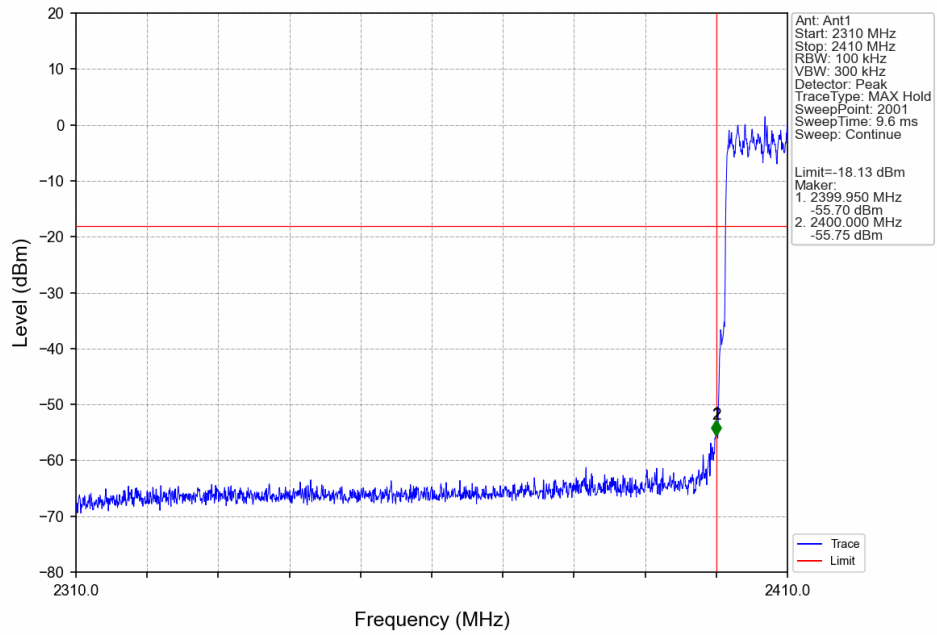
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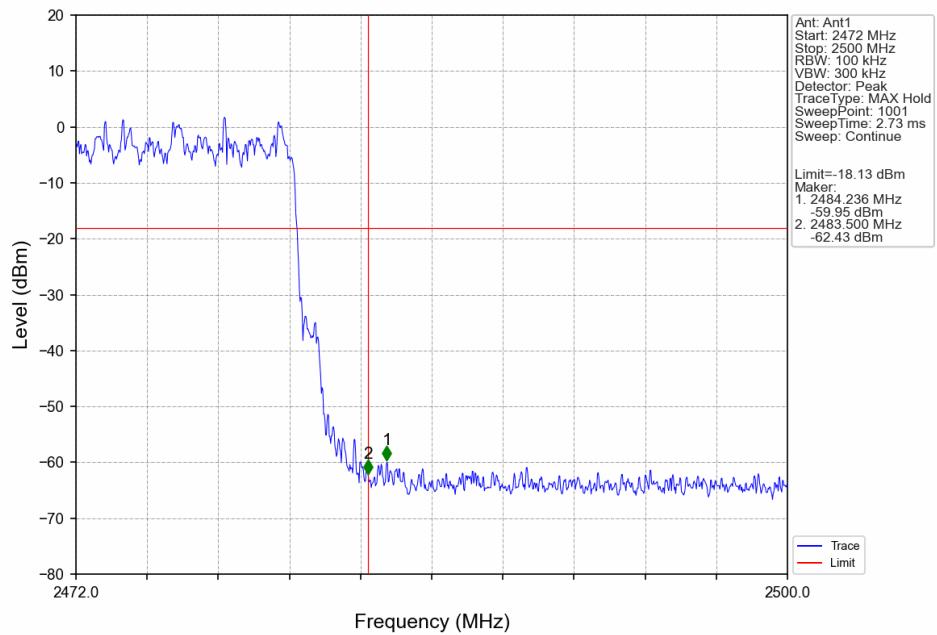
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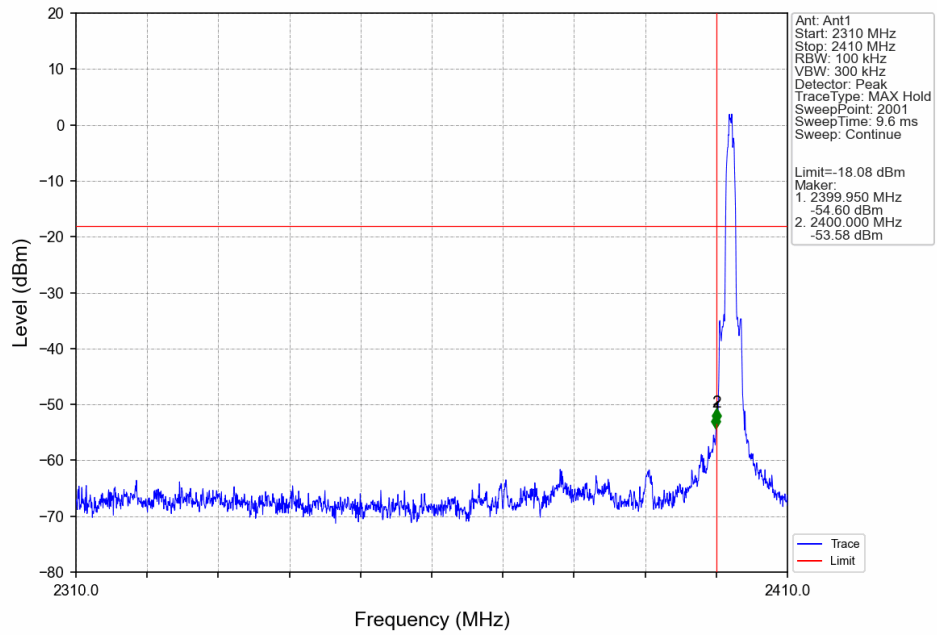
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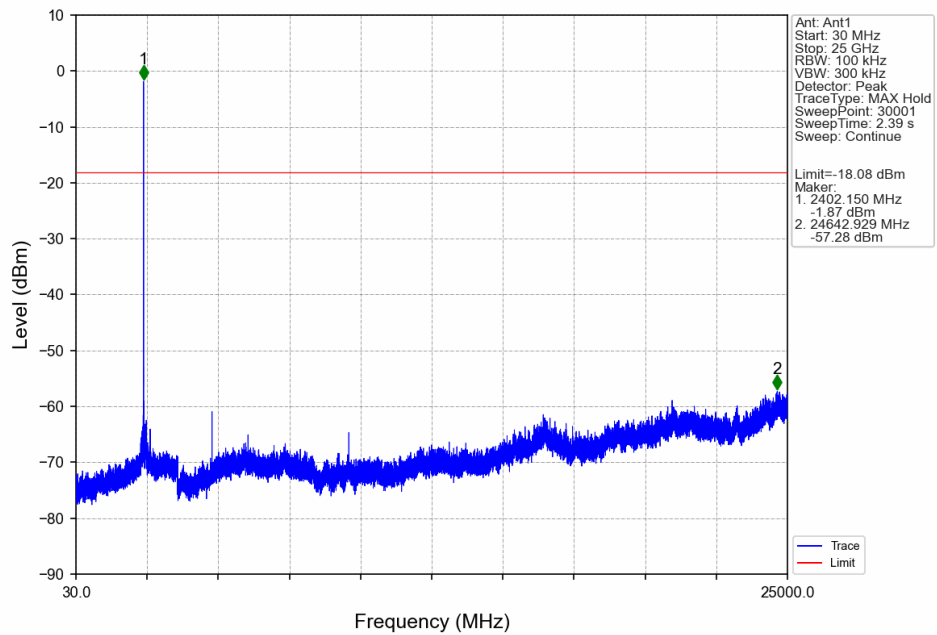
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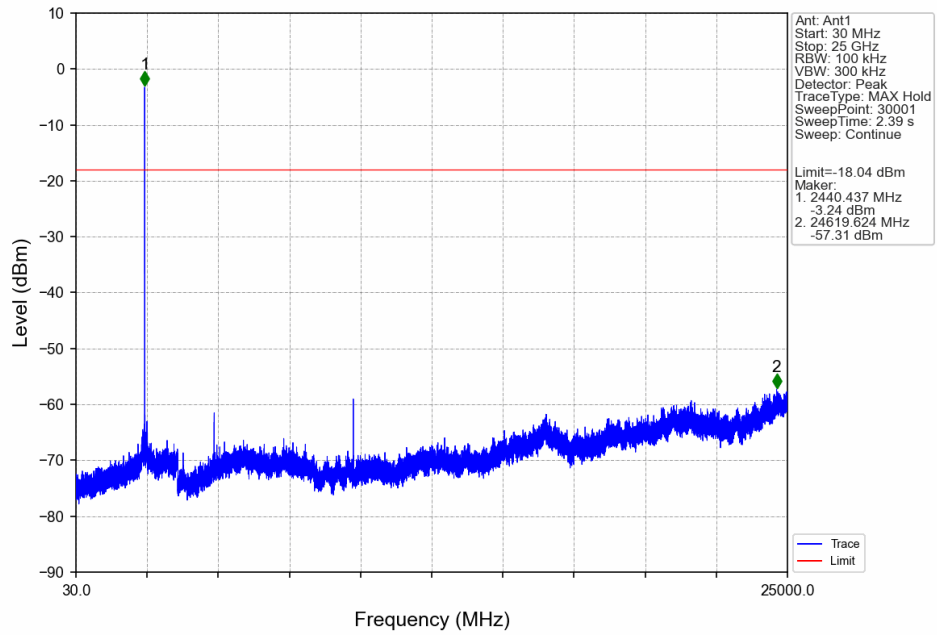
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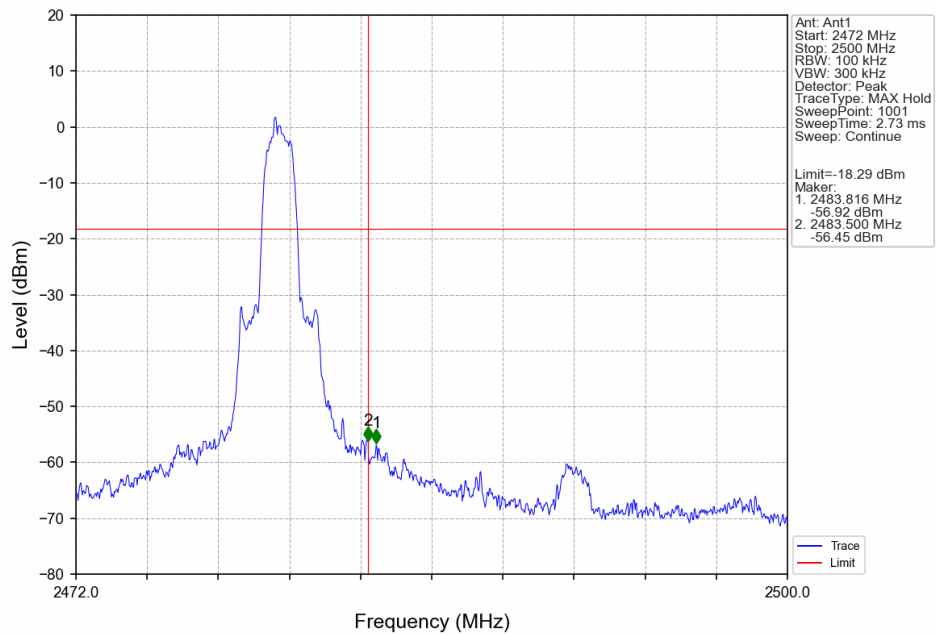
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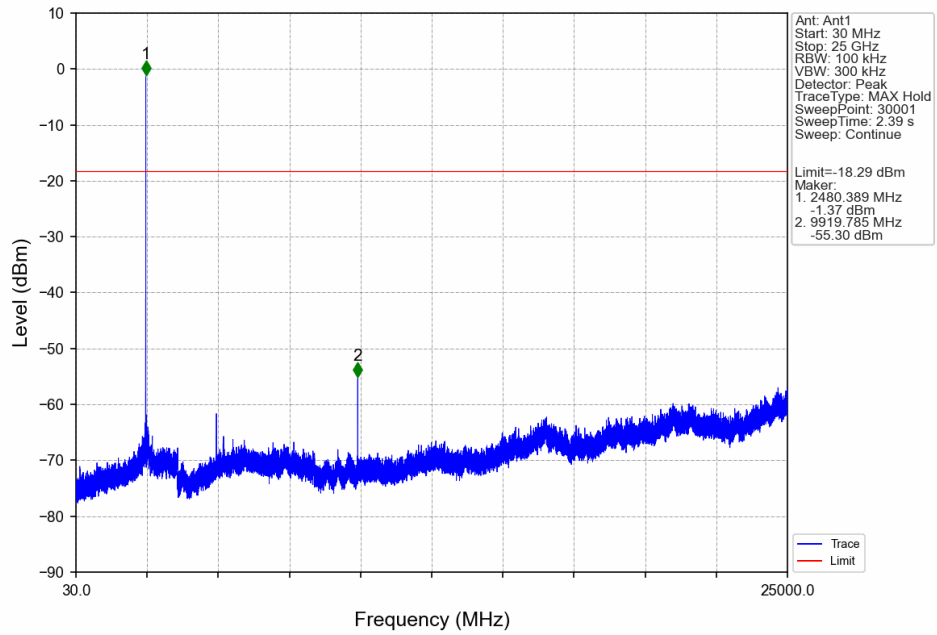
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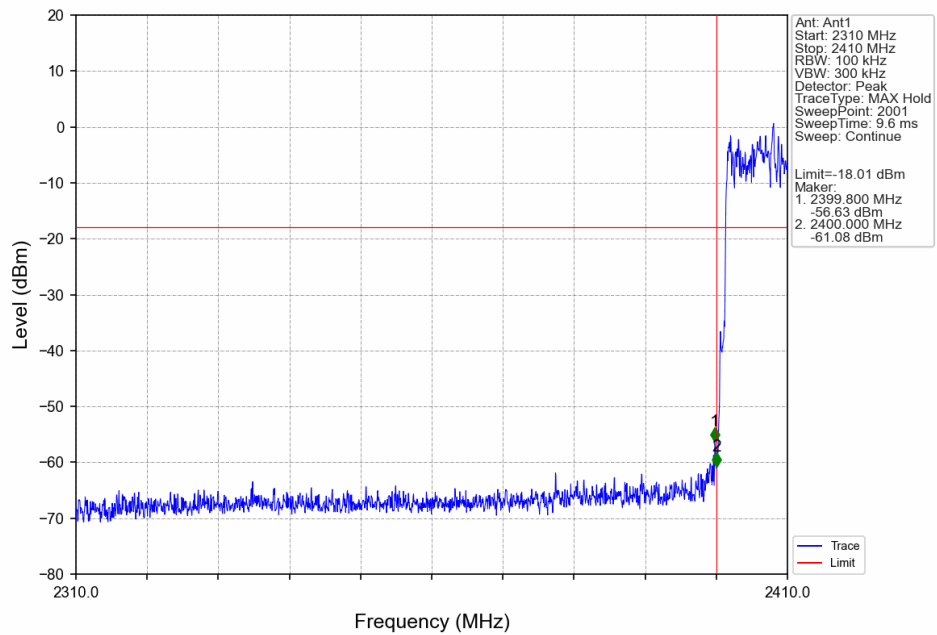
8DPSK 3DH5 HCH 2480MHz Ant1 NTN



8DPSK 3DH5 HCH 2480MHz Ant1 NTNV



8DPSK 3DH5 HOPP Ant1 NTNV



8DPSK 3DH5 HOPP Ant1 NTN

