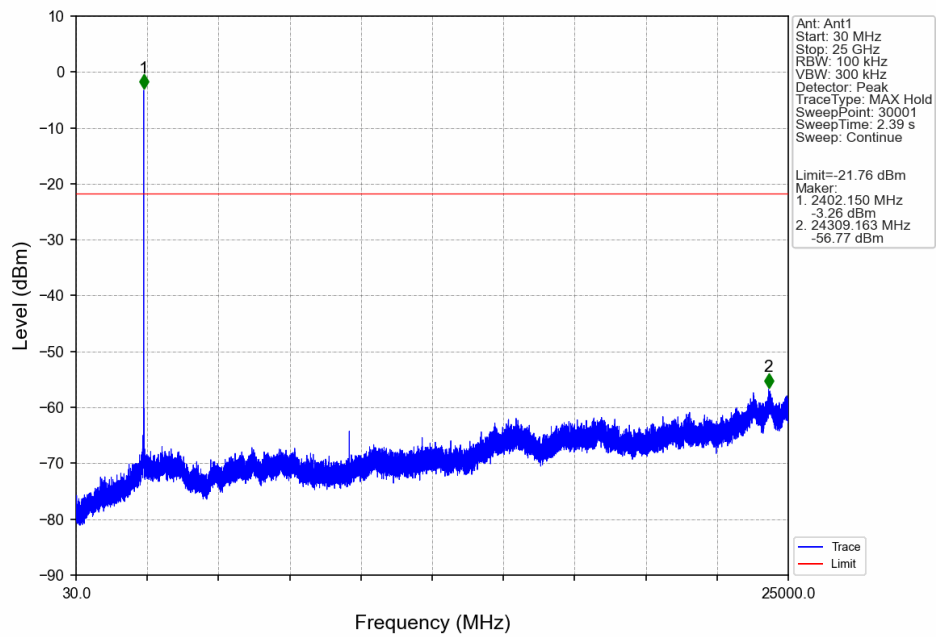
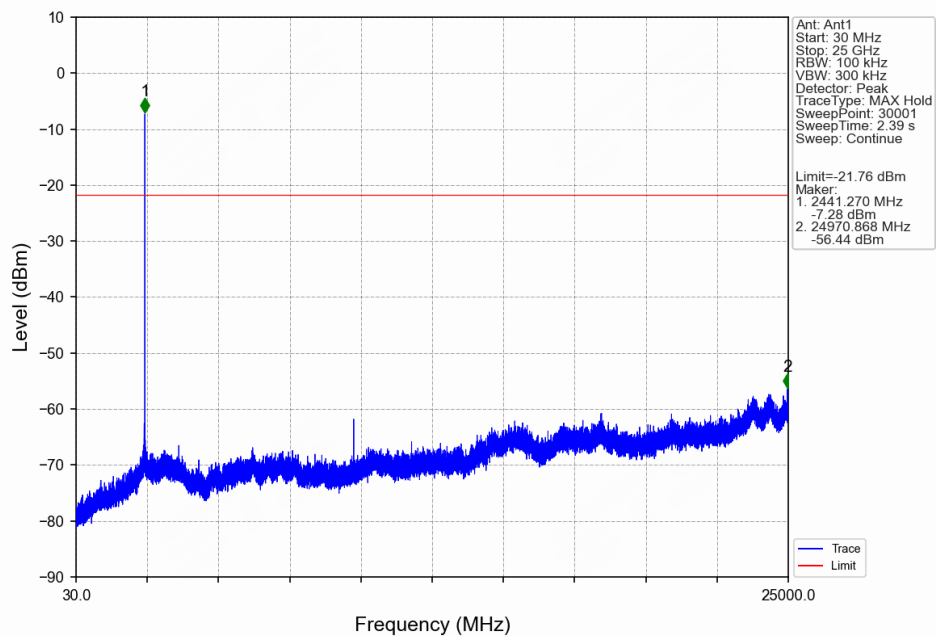




Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

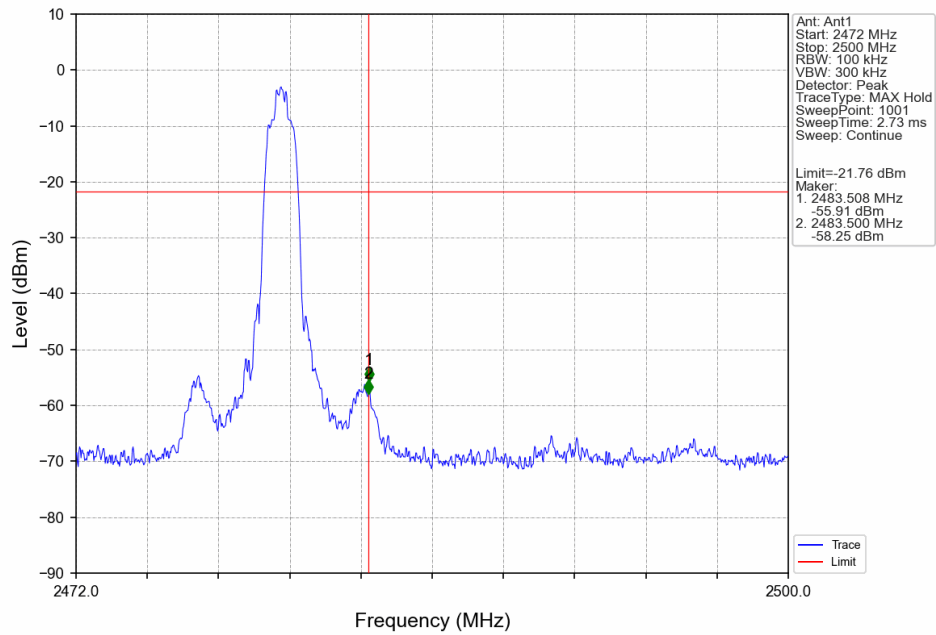


Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

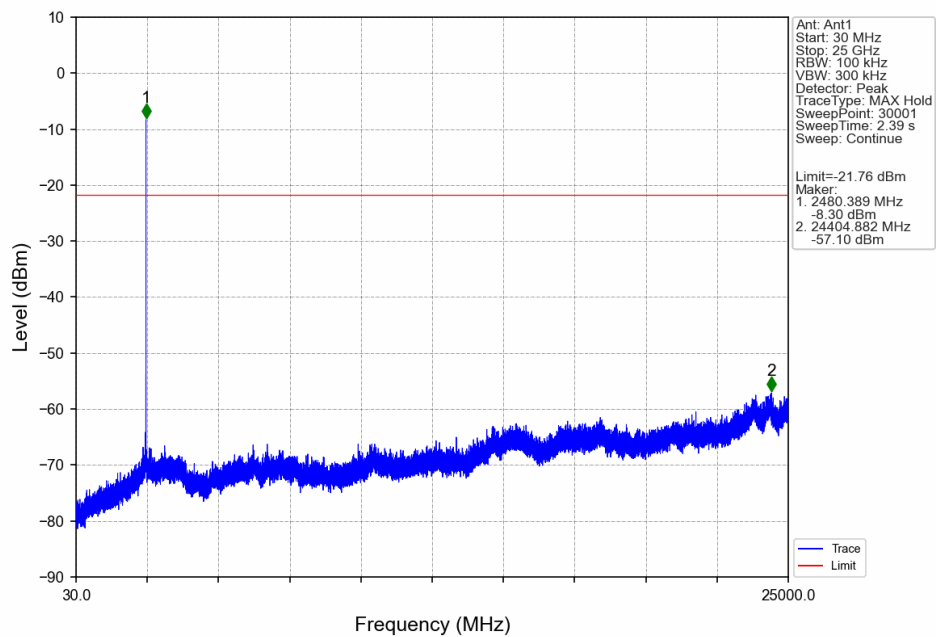




Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

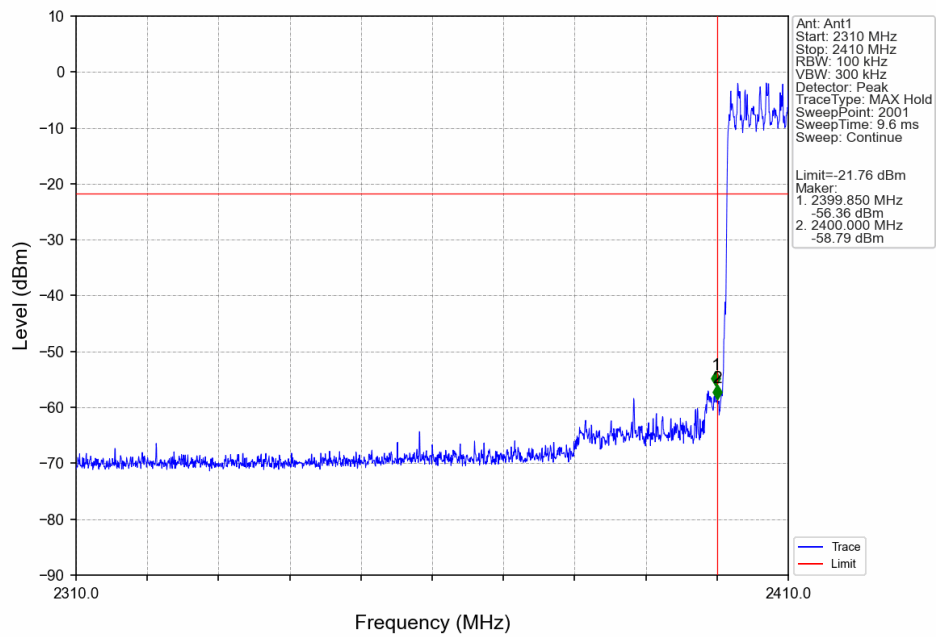


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

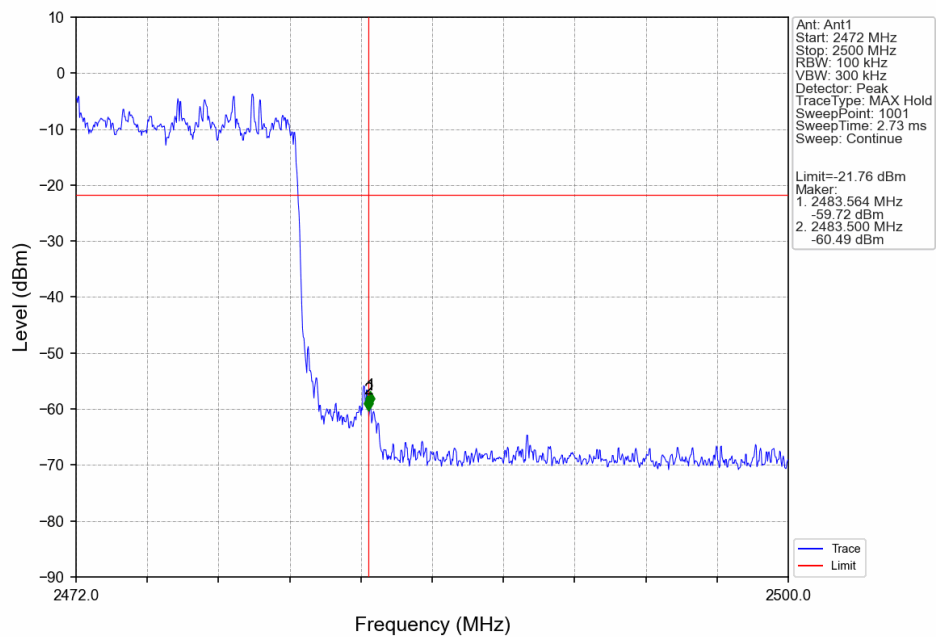




Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

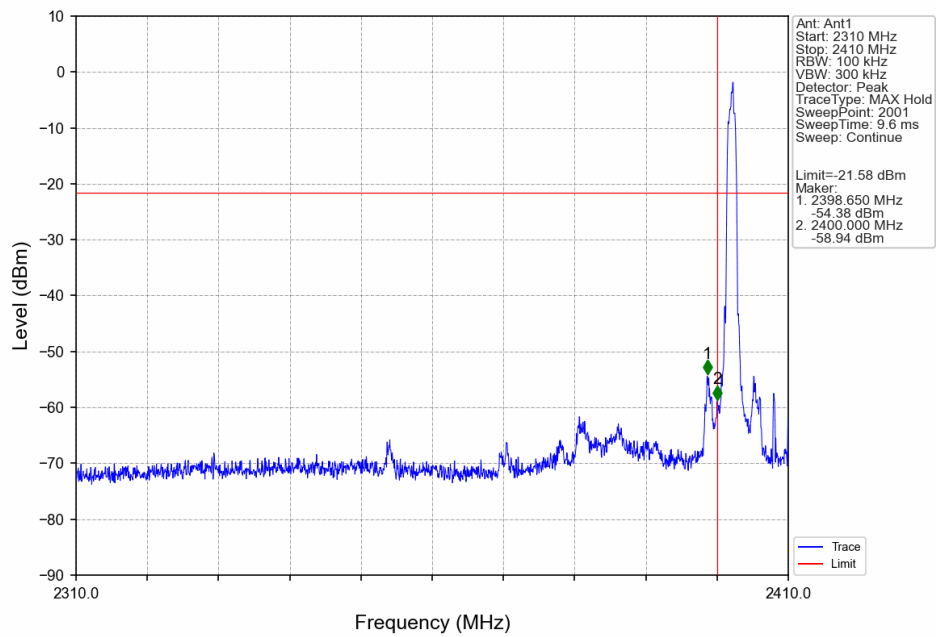


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

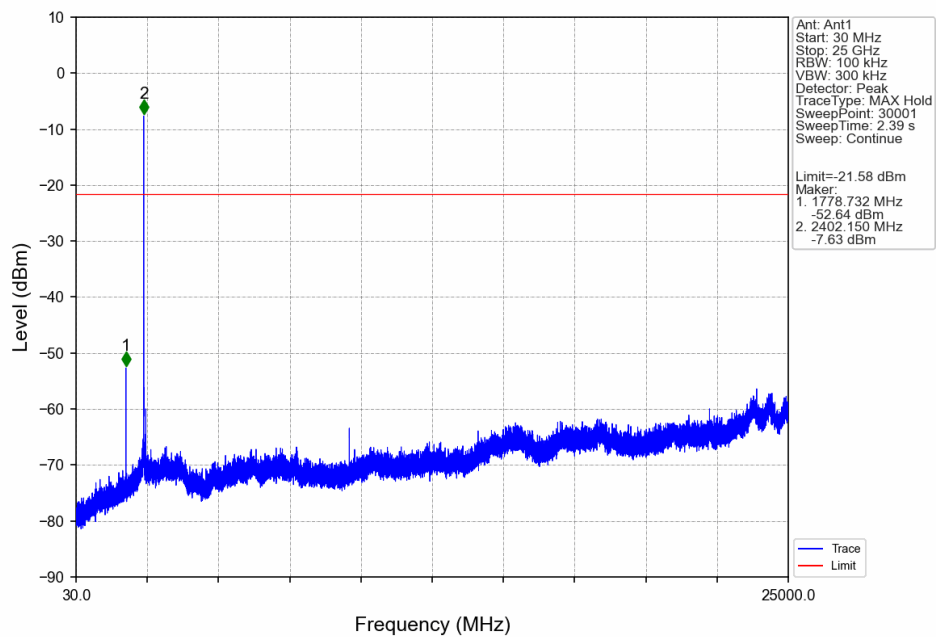




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

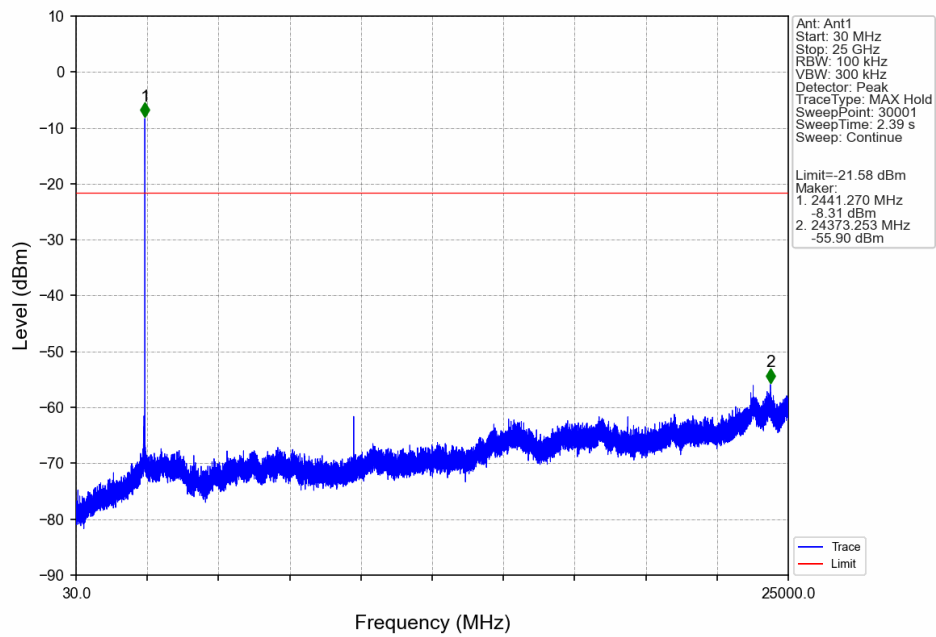


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

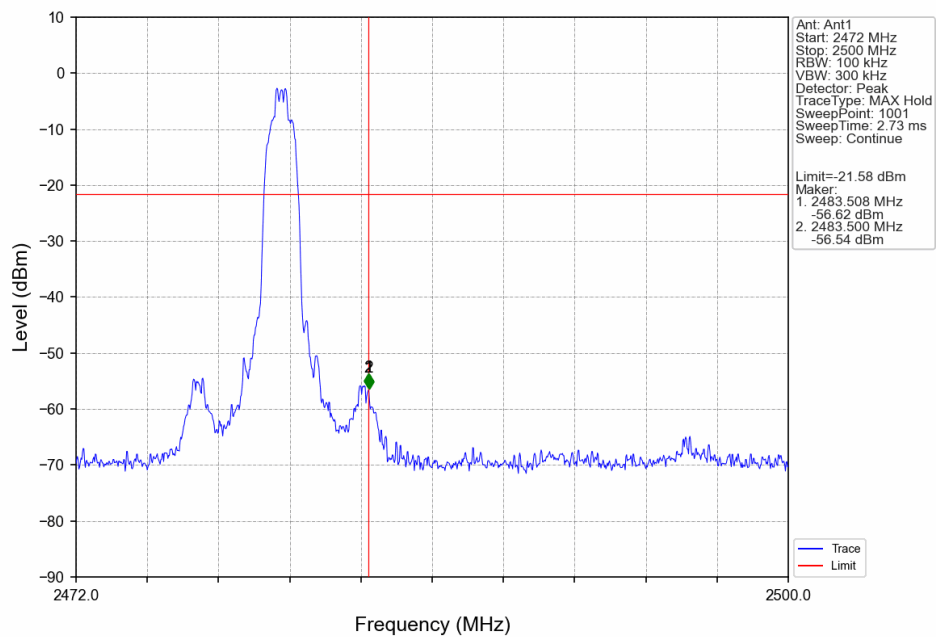




8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

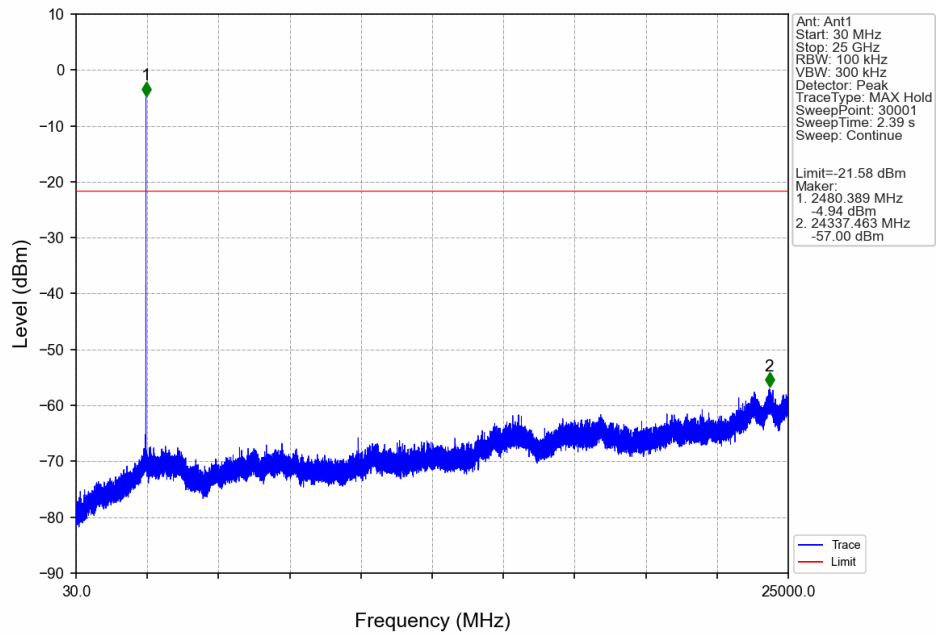


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

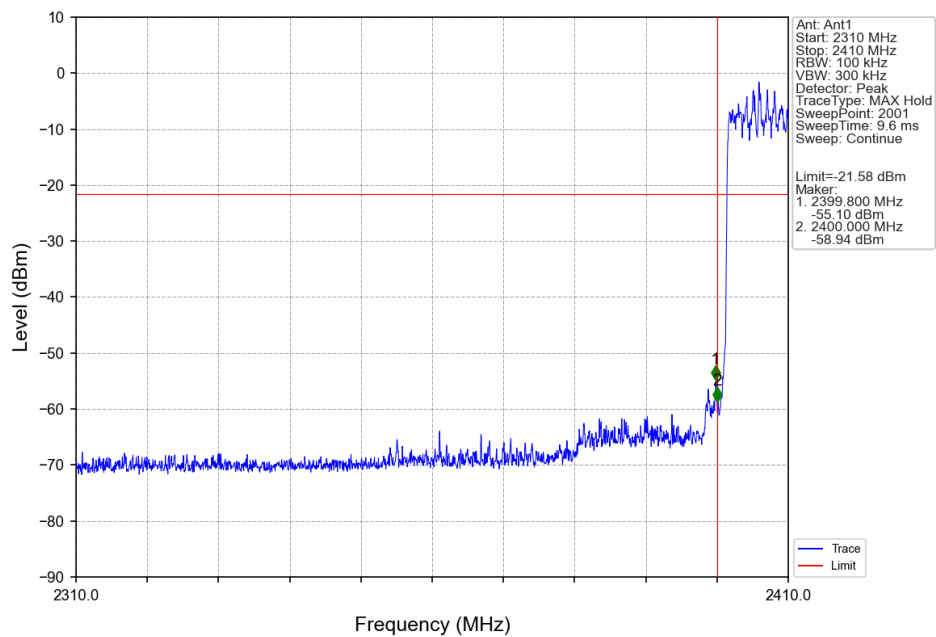




8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

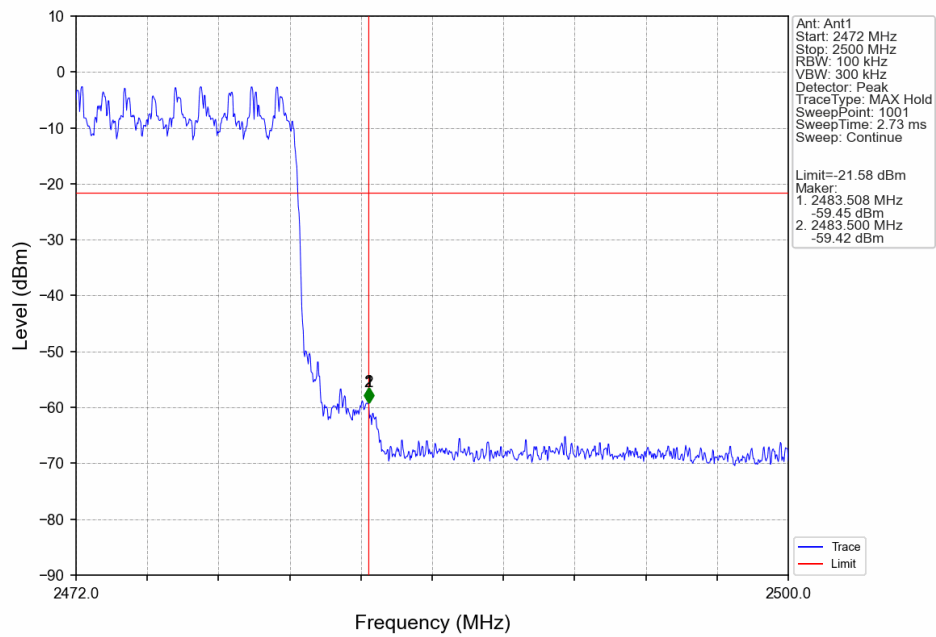


8DPSK_3DH5_HOPP_Ant1_NTNV





8DPSK_3DH5_HOPP_Ant1_NTNV





7. FORM731

7.1 Test Result

7.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0008	-1.06



RIGHT

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	0.850	/	Pass
		2441	DH5	1	0.849	/	Pass
		2480	DH5	1	0.854	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.151	/	Pass
		2441	2DH5	1	1.160	/	Pass
		2480	2DH5	1	1.152	/	Pass
8DPSK	SISO	2402	3DH5	1	1.144	/	Pass
		2441	3DH5	1	1.143	/	Pass
		2480	3DH5	1	1.142	/	Pass

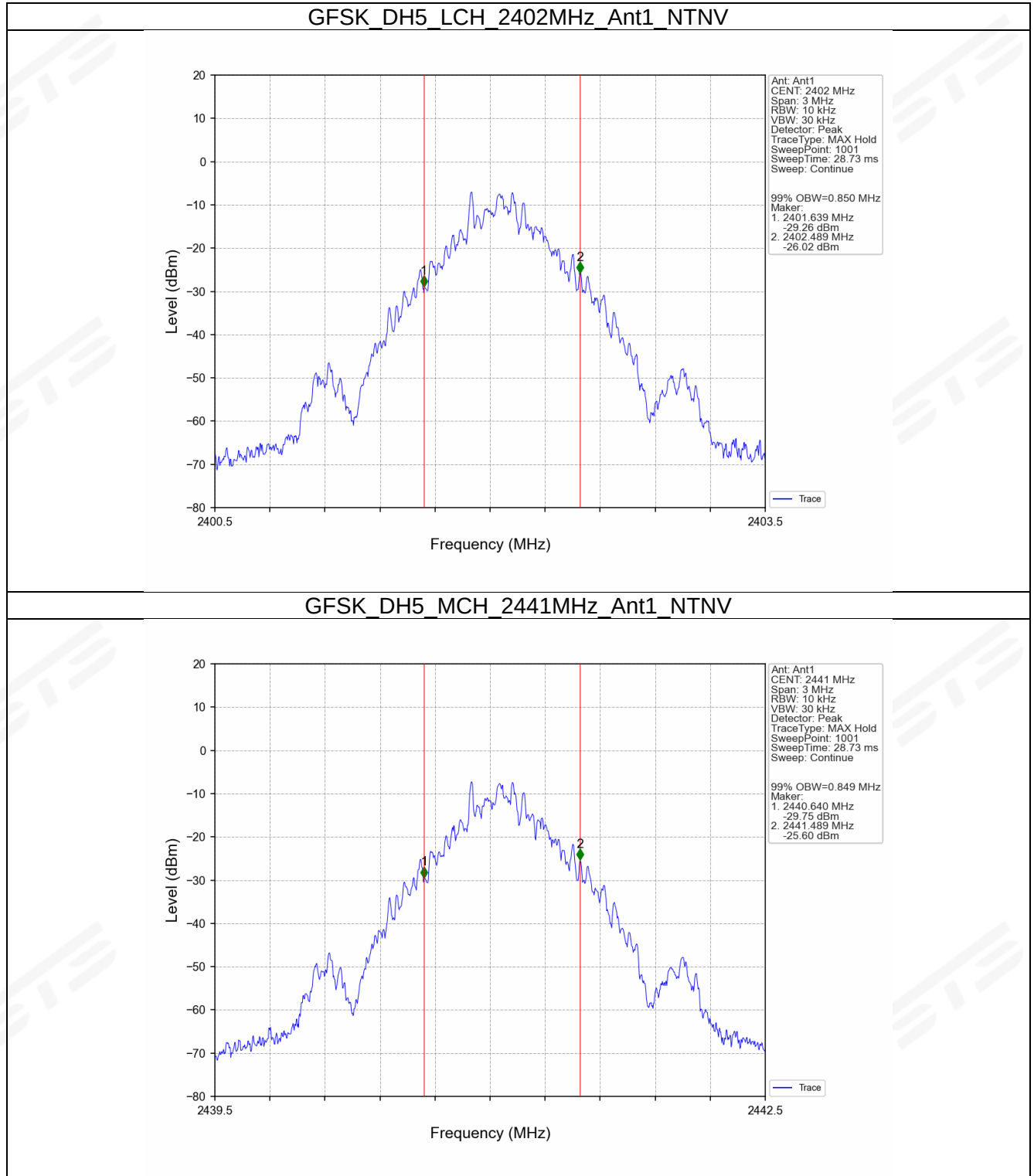
1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.924	/	Pass
		2441	DH5	1	0.926	/	Pass
		2480	DH5	1	0.924	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.219	/	Pass
		2441	2DH5	1	1.200	/	Pass
		2480	2DH5	1	1.198	/	Pass
8DPSK	SISO	2402	3DH5	1	1.227	/	Pass
		2441	3DH5	1	1.229	/	Pass
		2480	3DH5	1	1.229	/	Pass



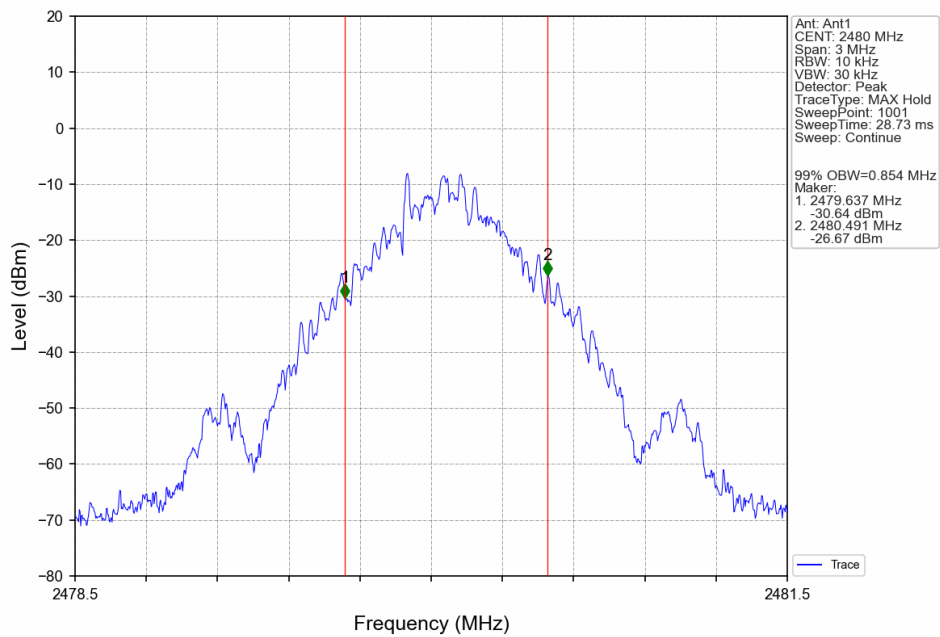
1.2 Test Graph

1.2.1 OBW

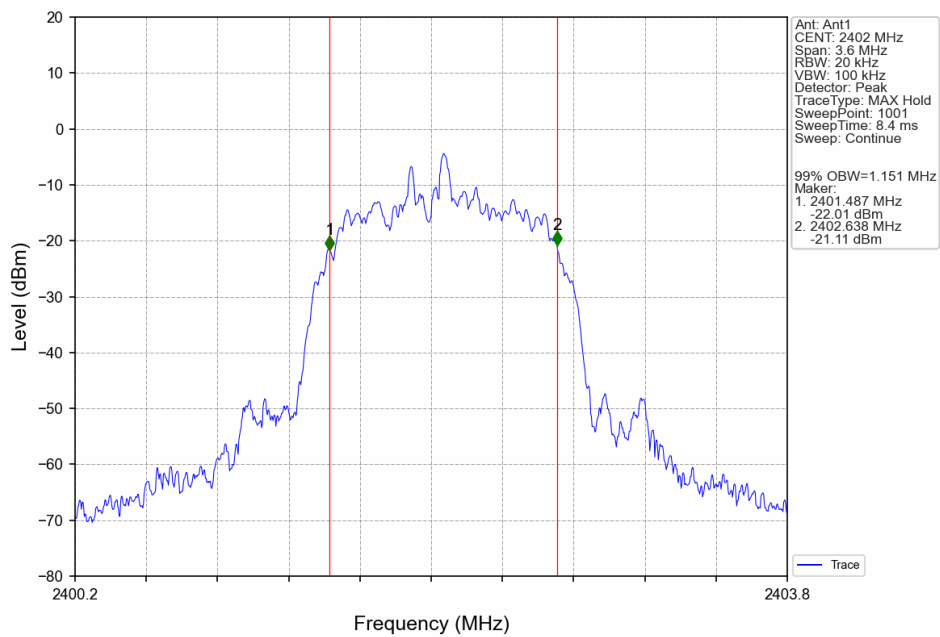




GFSK_DH5_HCH_2480MHz_Ant1_NTNV

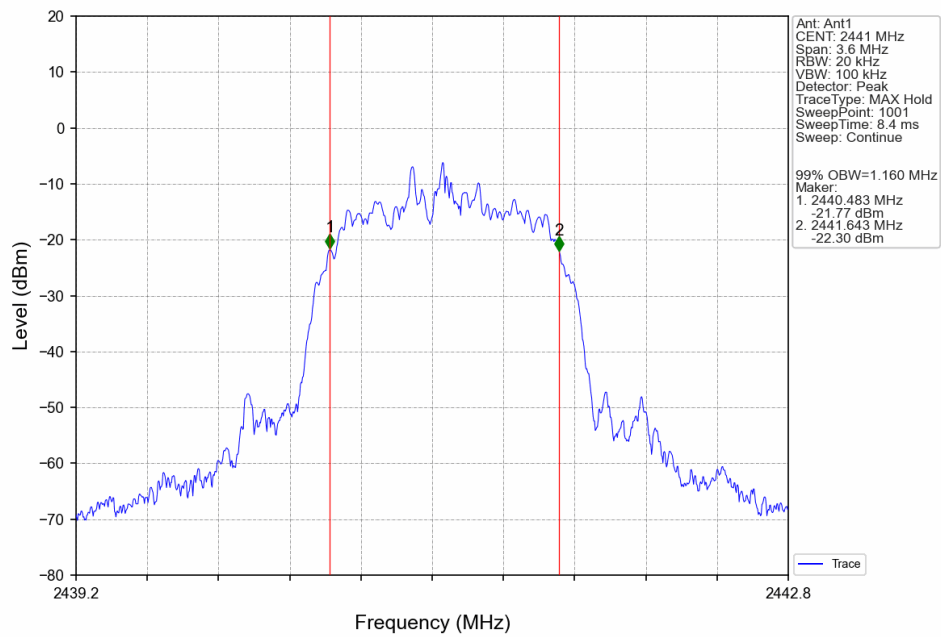


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

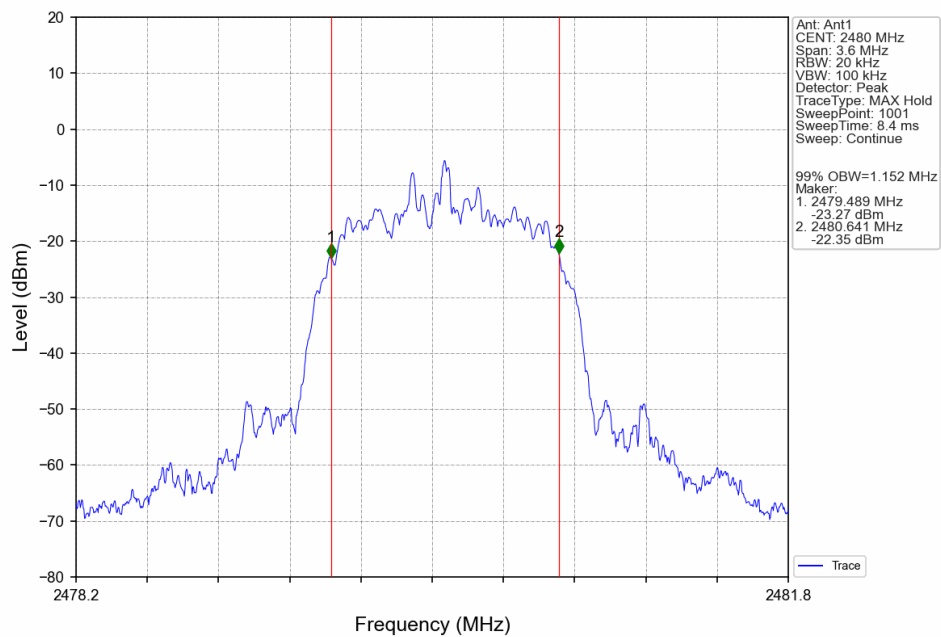




Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

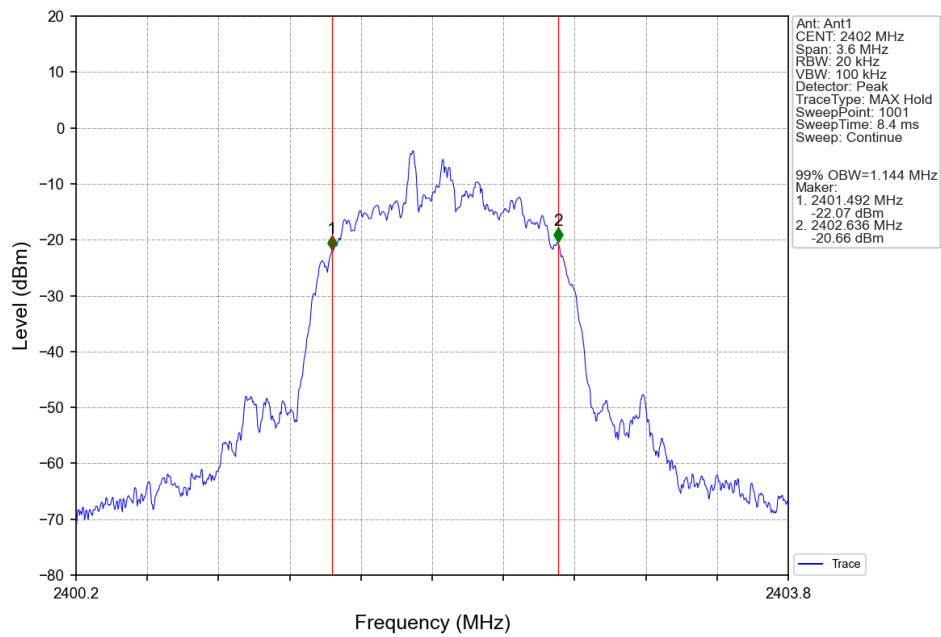


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

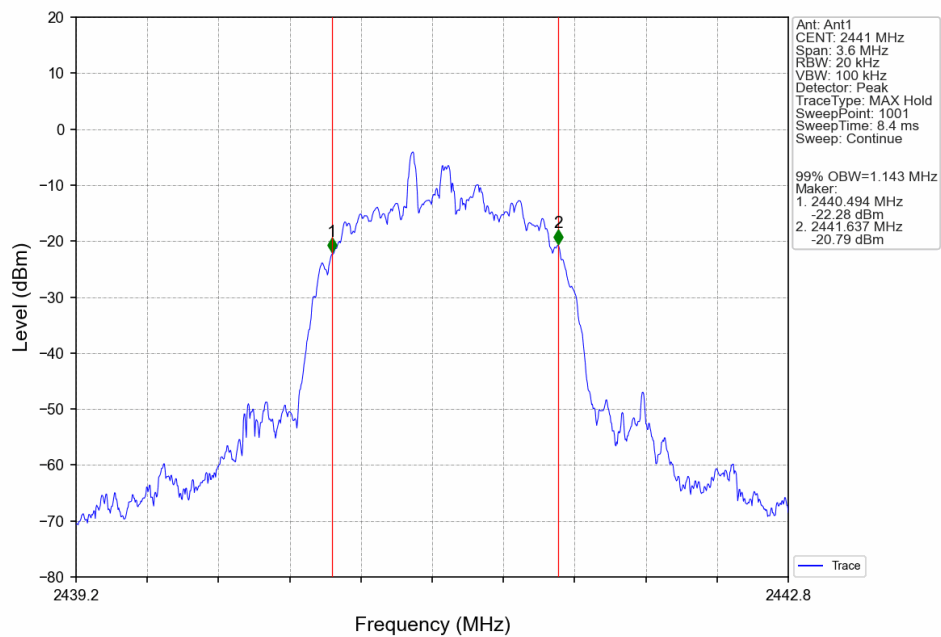




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

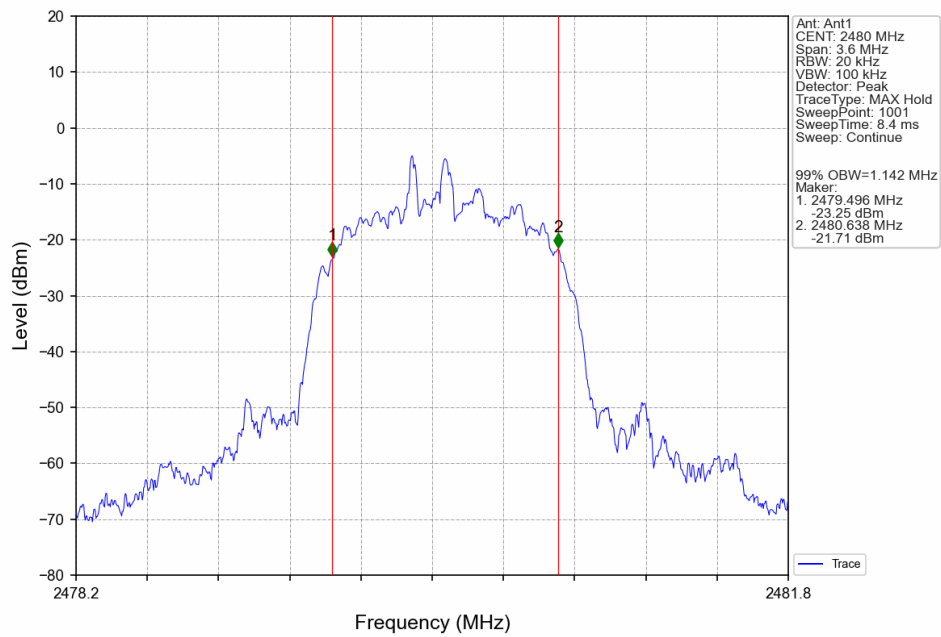


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





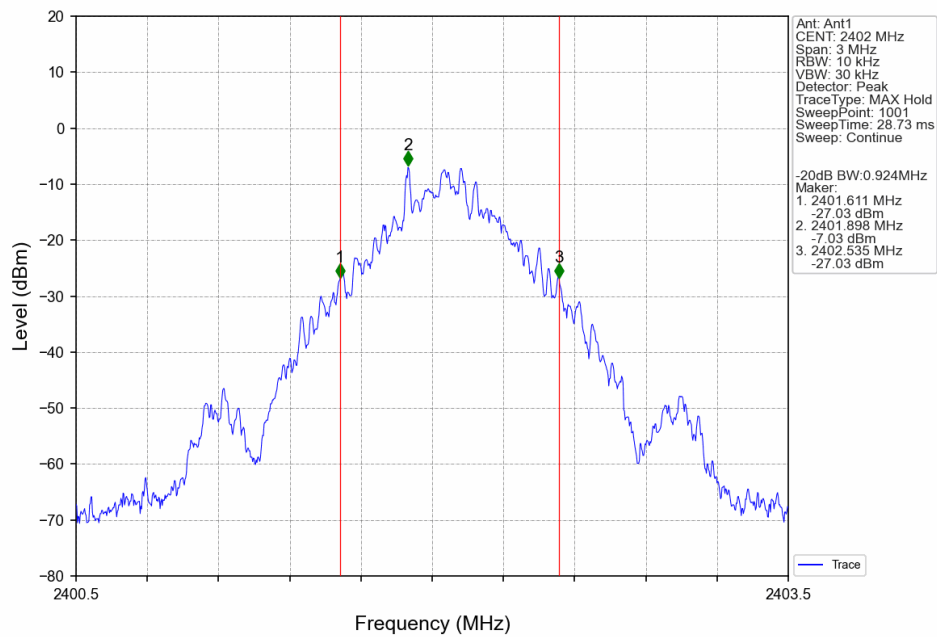
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



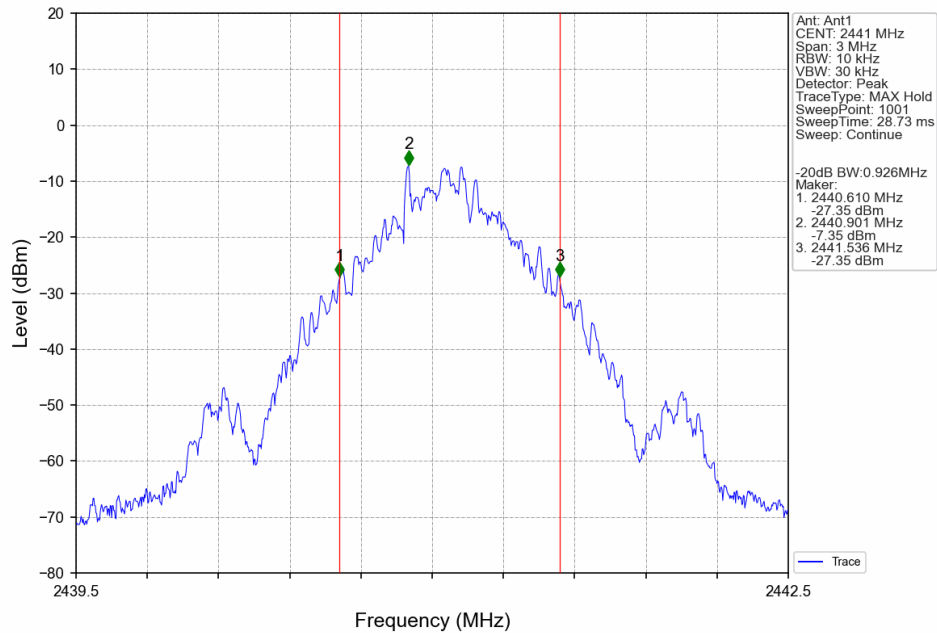


1.2.2 20dB BW

GFSK_DH5_LCH_2402MHz_Ant1_NTNV

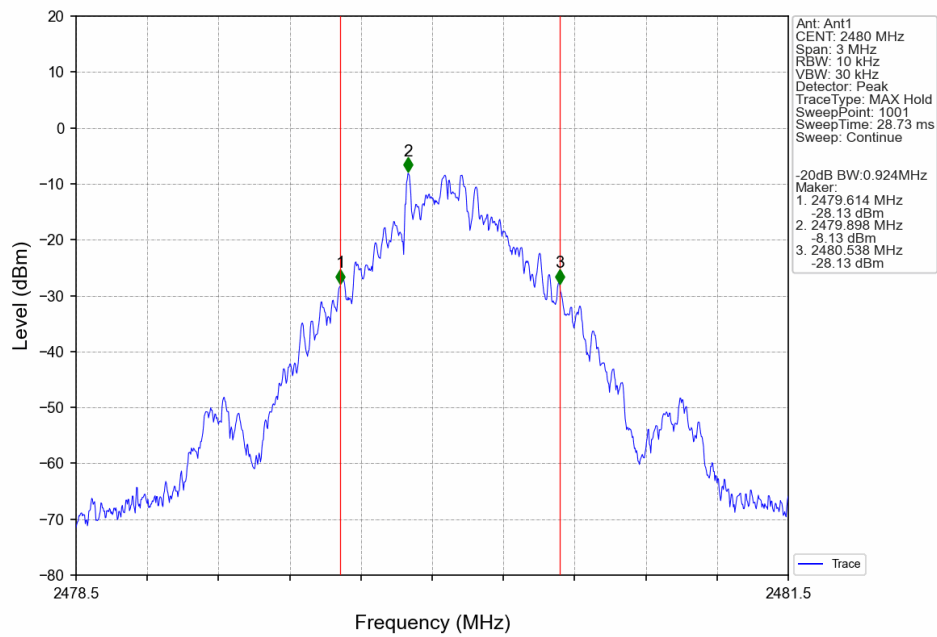


GFSK_DH5_MCH_2441MHz_Ant1_NTNV

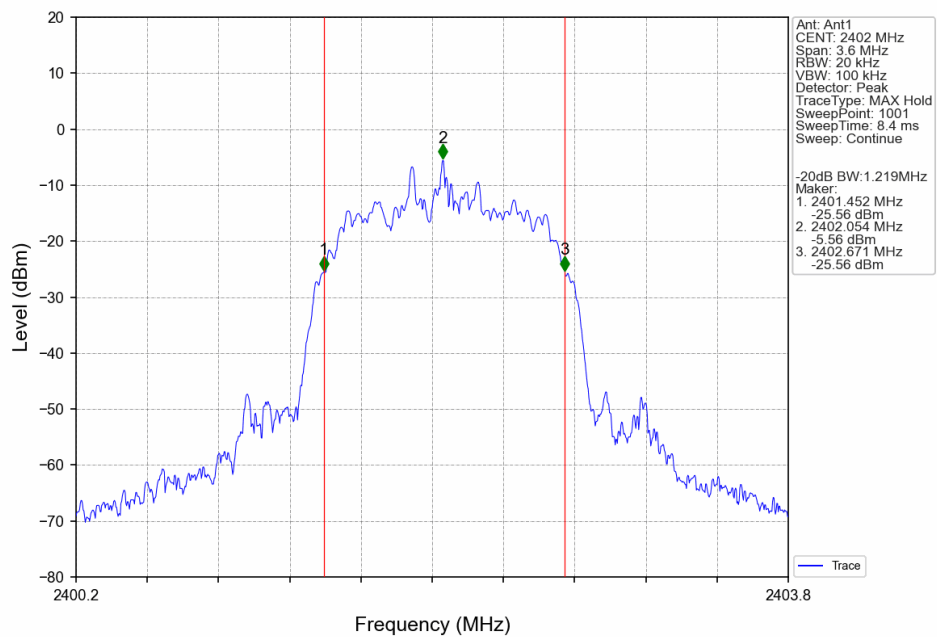




GFSK_DH5_HCH_2480MHz_Ant1_NTNV

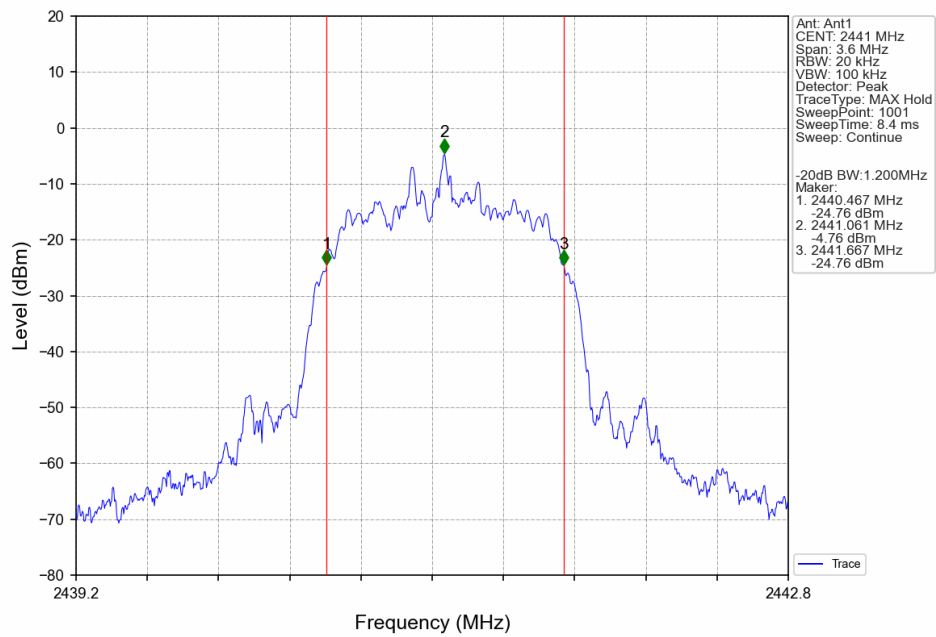


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

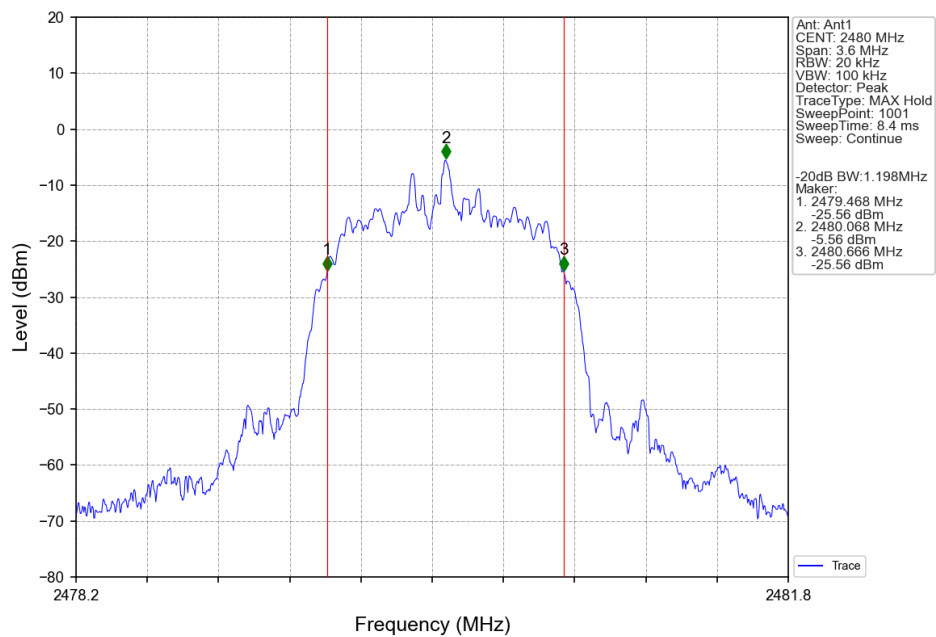




Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

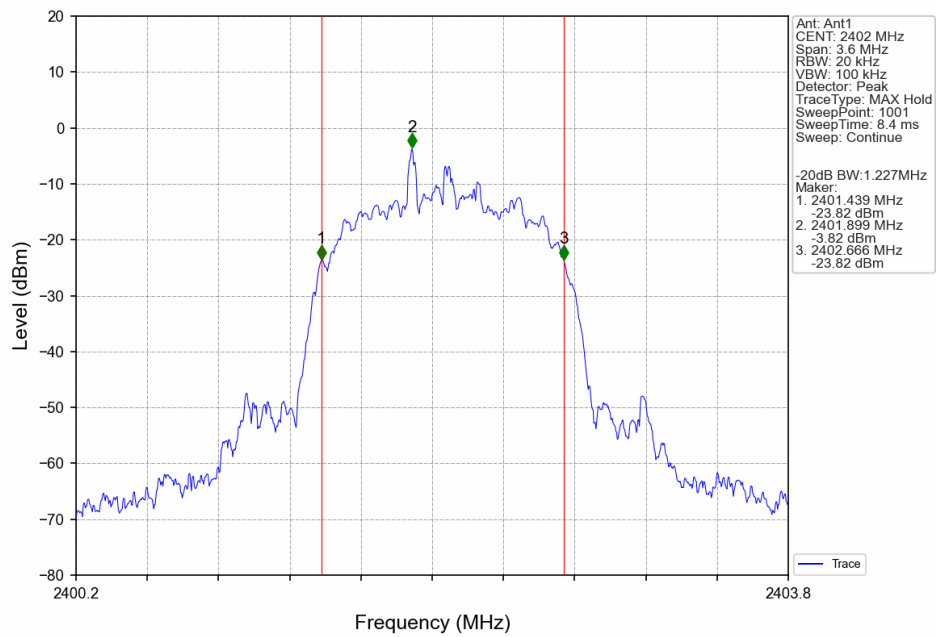


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

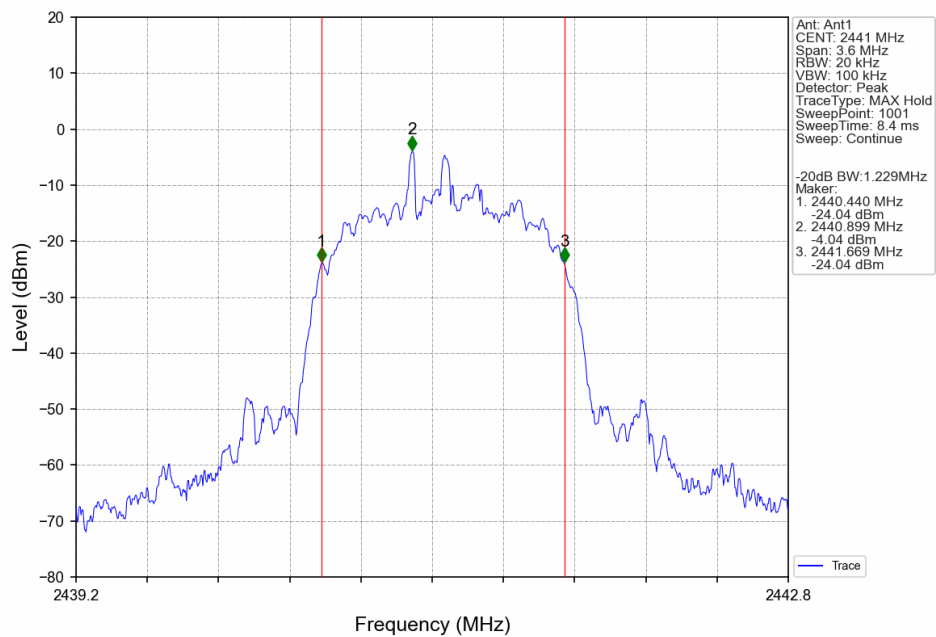




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

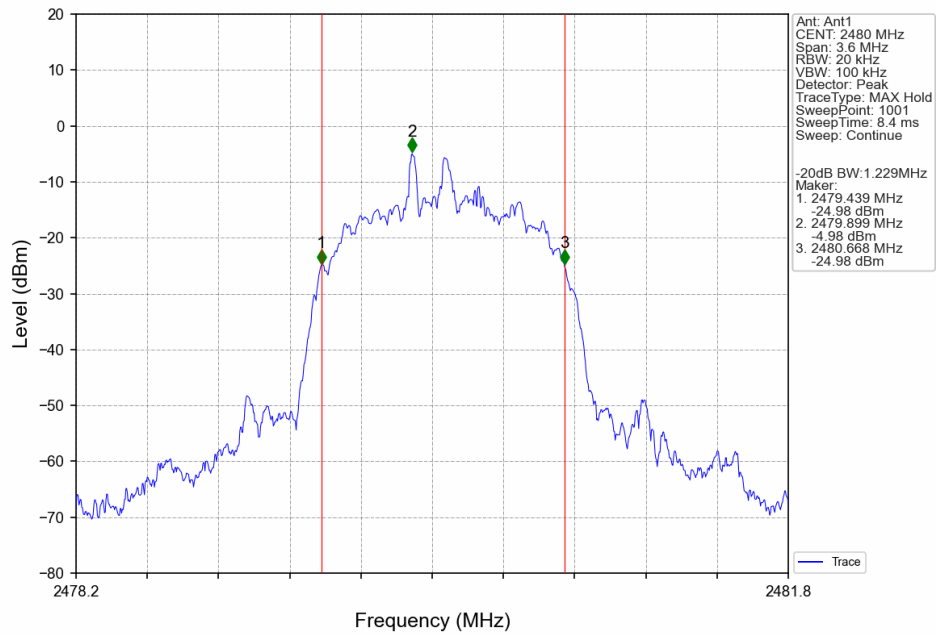


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV





2. MAXIMUM CONDUCTED OUTPUT POWER

2.1 Test Result

2.1.1 Power

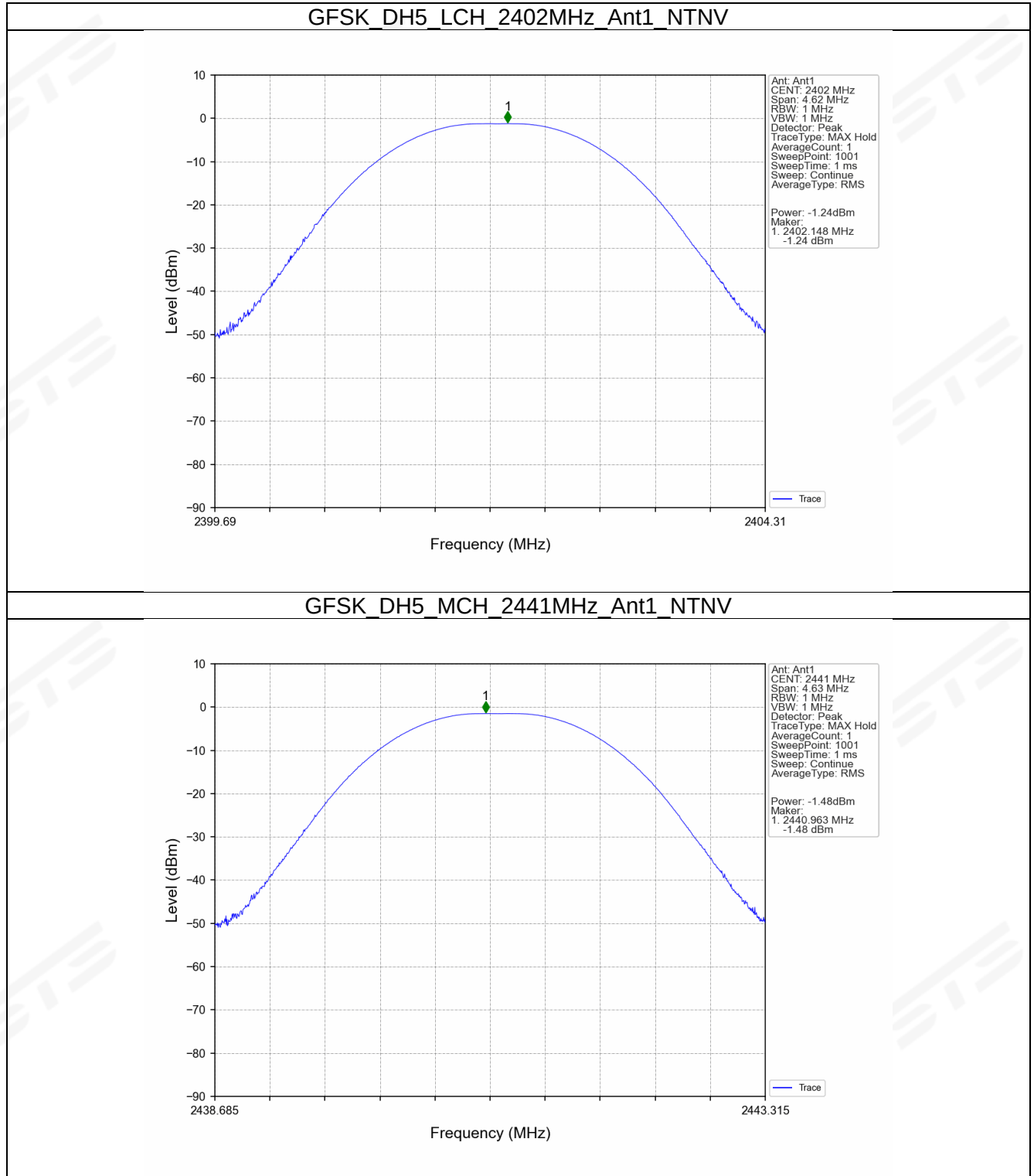
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-1.24	≤ 30	Pass
		2441	DH5	-1.48	≤ 30	Pass
		2480	DH5	-2.33	≤ 30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-1.21	≤ 20.97	Pass
		2441	2DH5	-1.43	≤ 20.97	Pass
		2480	2DH5	-2.28	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	-1.06	≤ 20.97	Pass
		2441	3DH5	-1.33	≤ 20.97	Pass
		2480	3DH5	-2.27	≤ 20.97	Pass

Note1: Antenna Gain: Ant1: 2.78dBi;



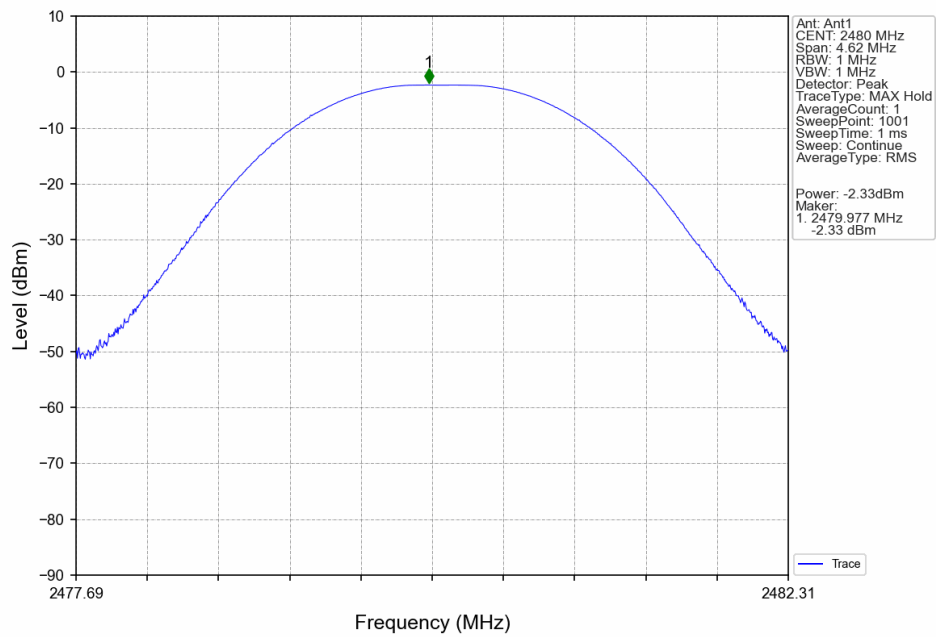
2.2 Test Graph

2.2.1 Power

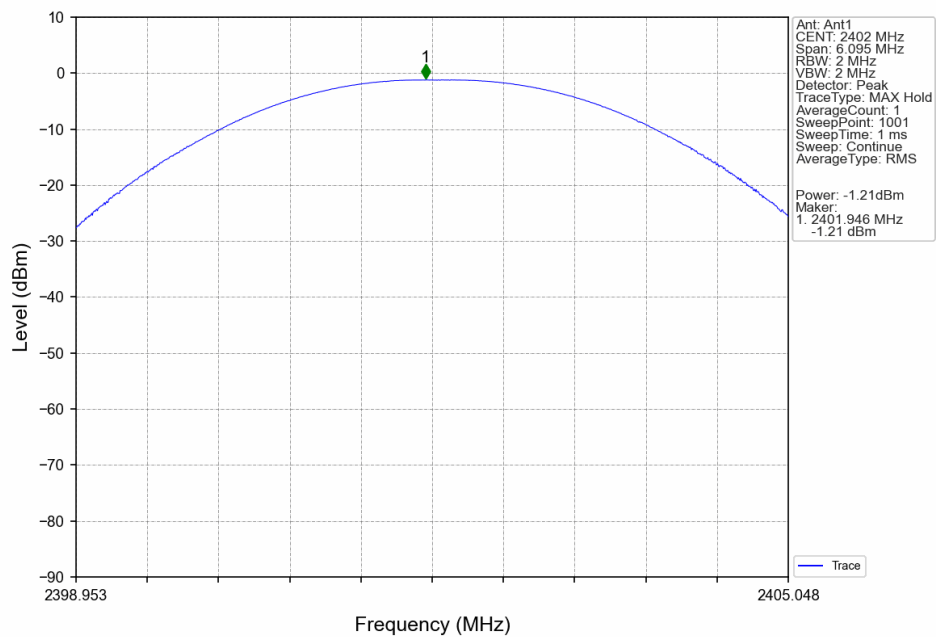




GFSK_DH5_HCH_2480MHz_Ant1_NTNV

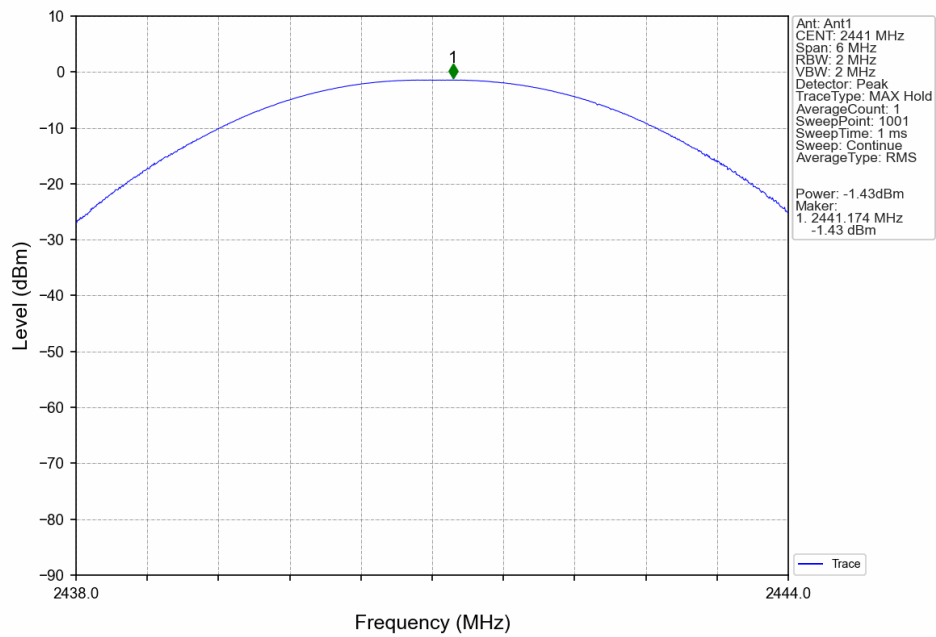


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

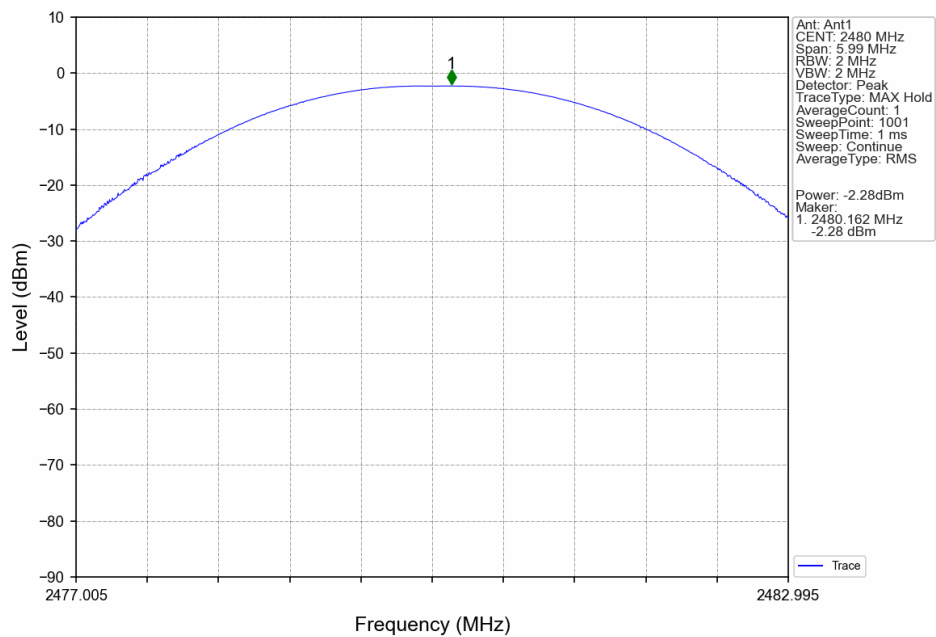




Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

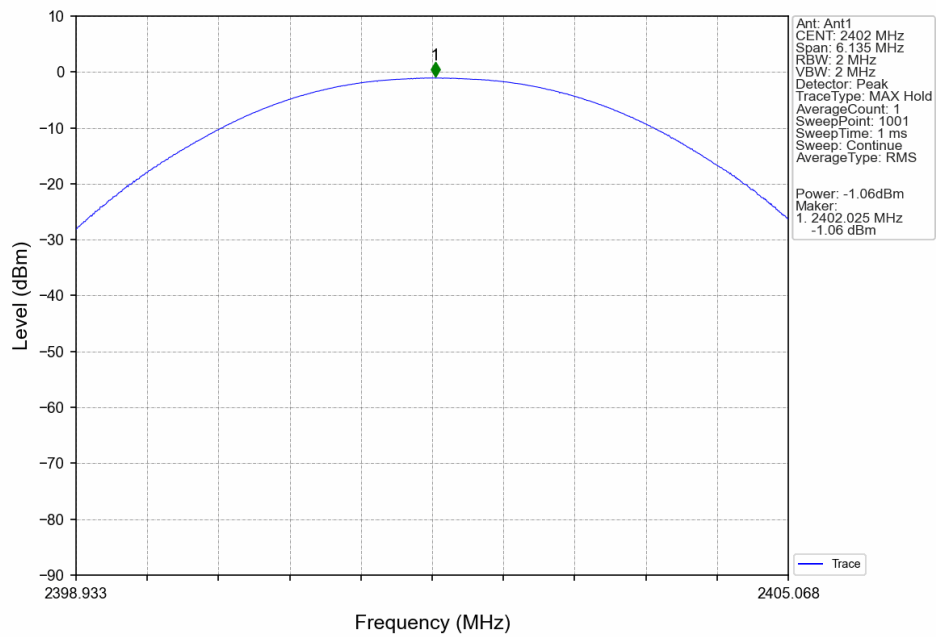


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

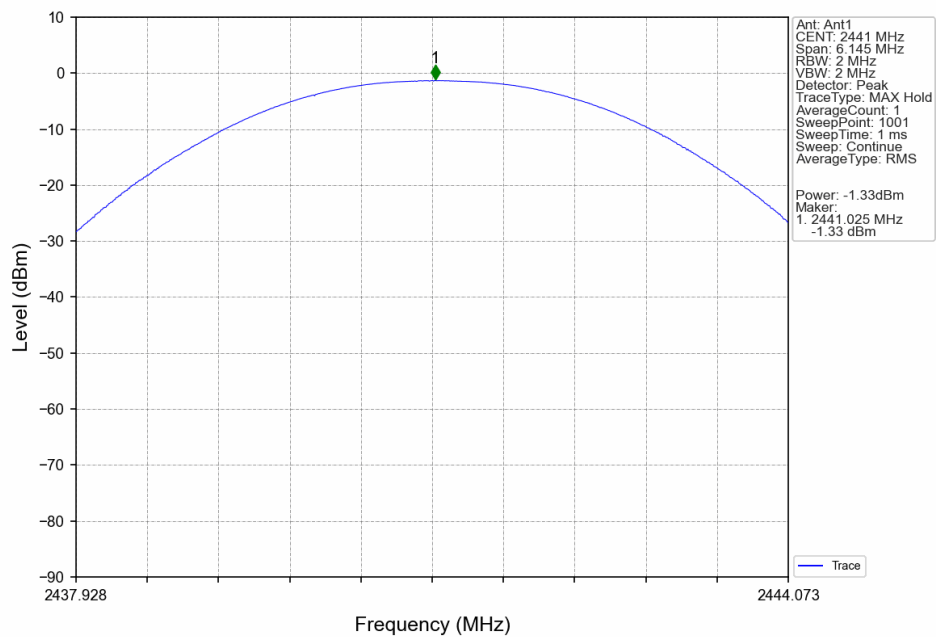




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

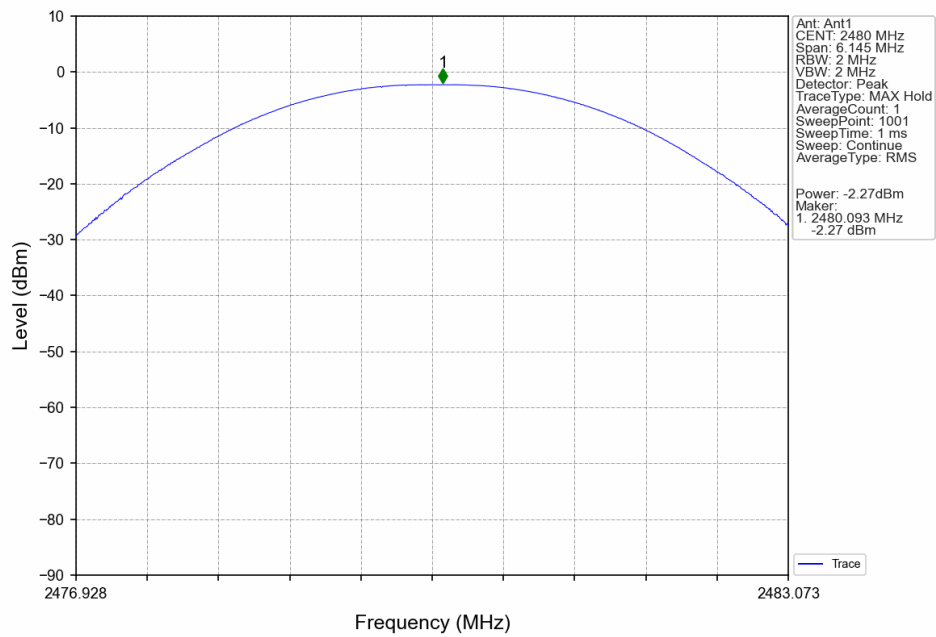


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV





3. CARRIER FREQUENCY SEPARATION

3.1 Test Result

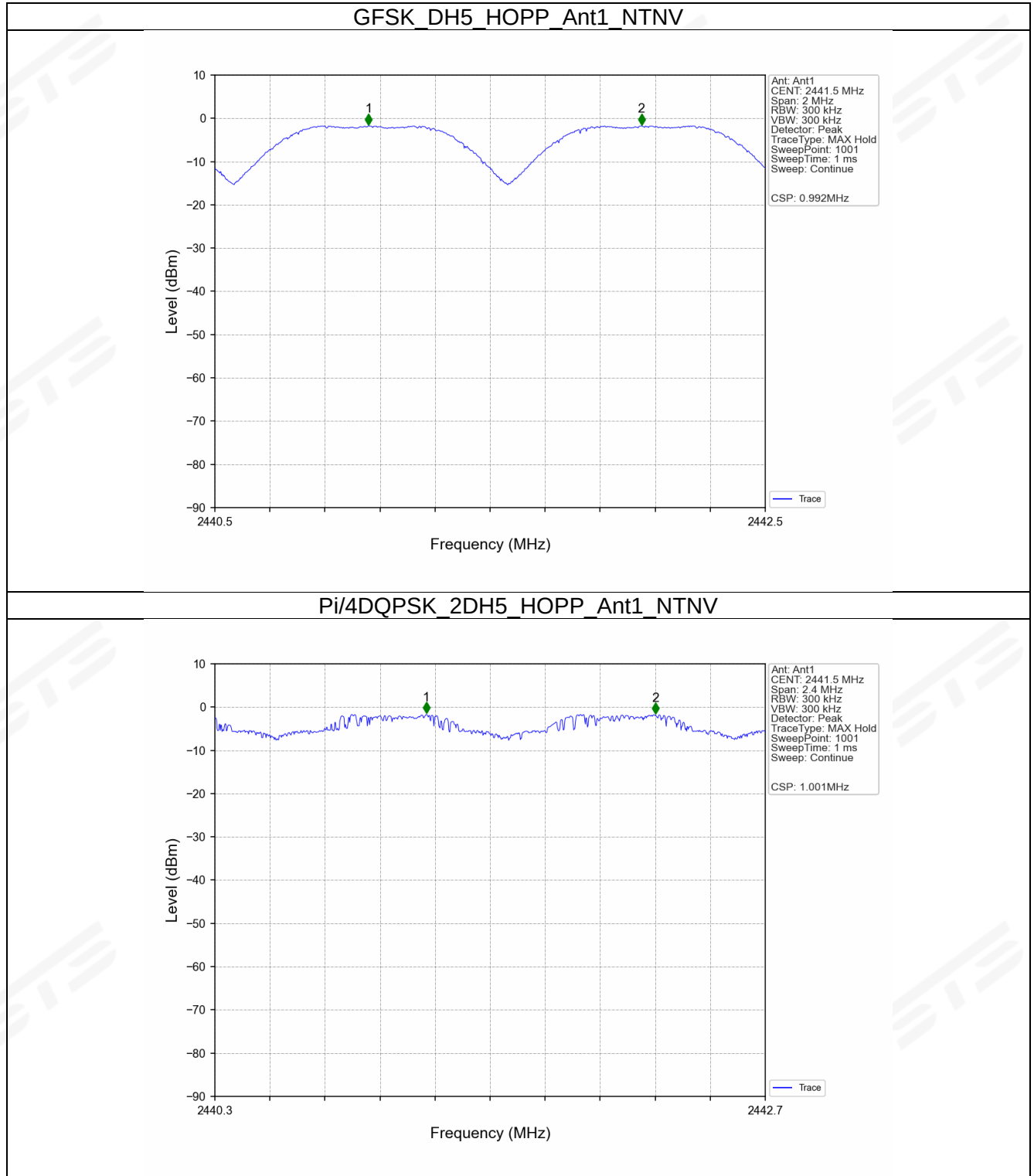
3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.992	0.926	≥ 0.926	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.219	≥ 0.813	Pass
8DPSK	SISO	HOPP	3DH5	0.946	1.229	≥ 0.819	Pass



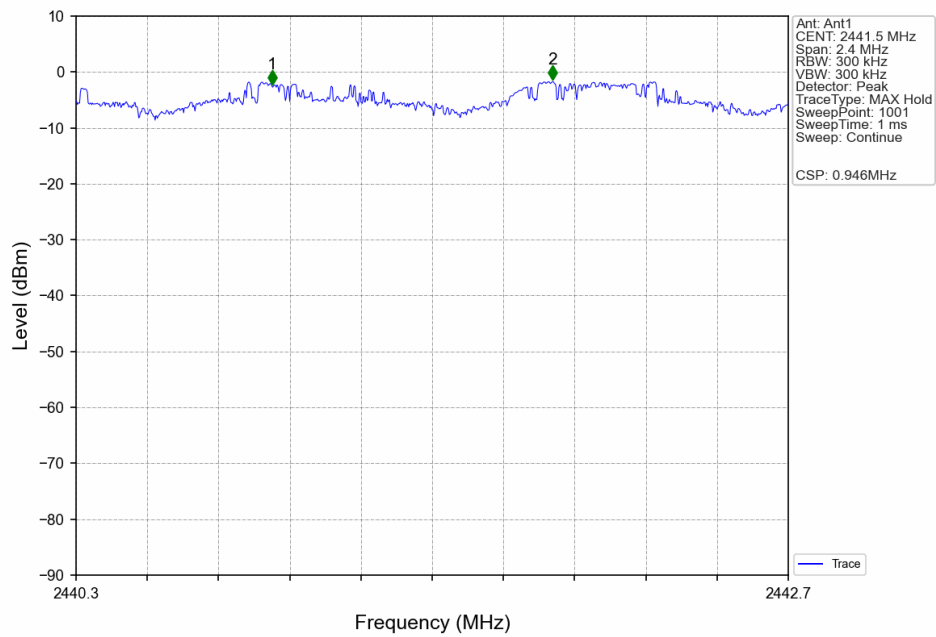
3.2 Test Graph

3.2.1 Ant1





8DPSK_3DH5_HOPP_Ant1_NTNV





4. NUMBER OF HOPPING FREQUENCIES

4.1 Test Result

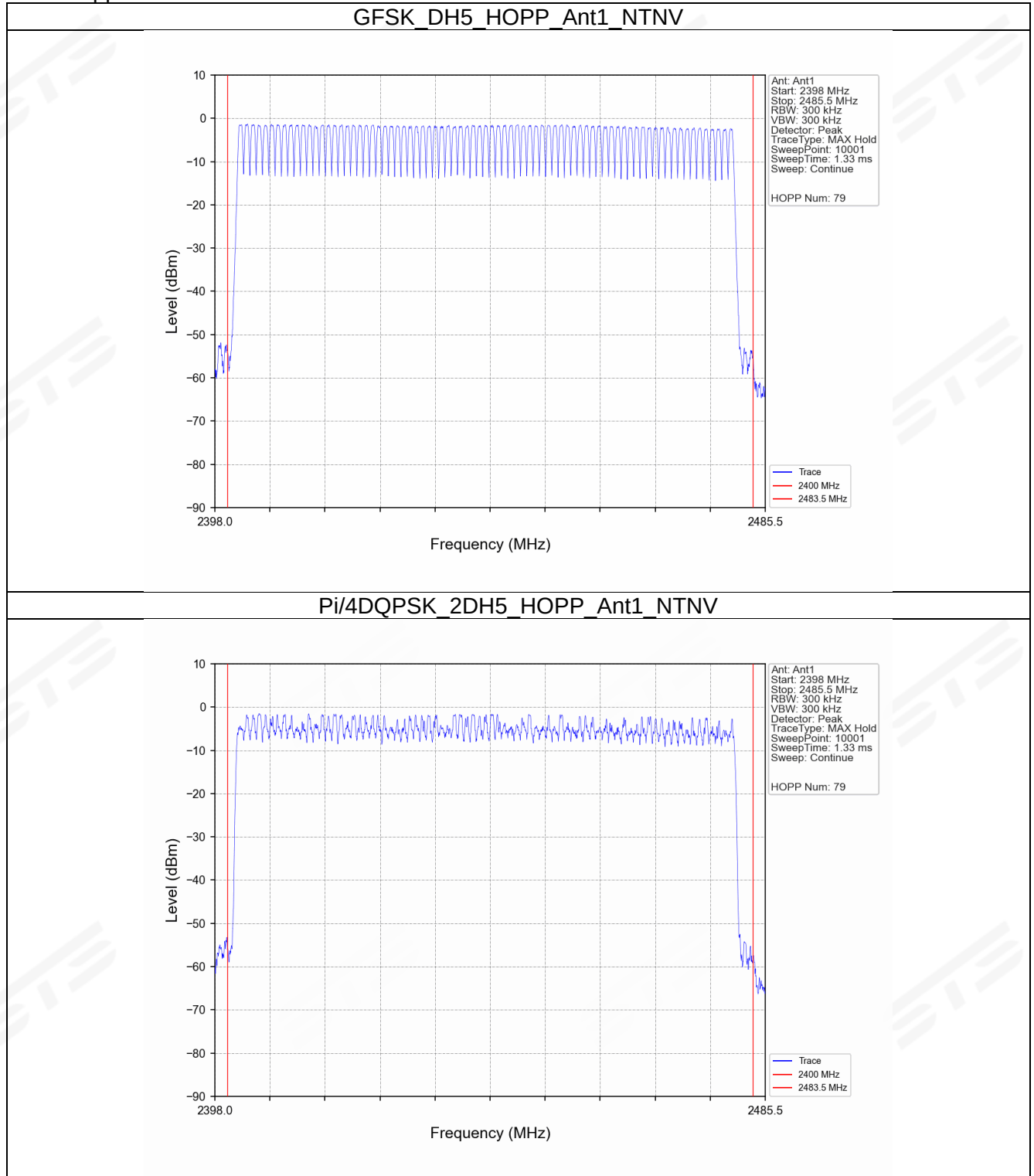
4.1.1 HoppNum

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



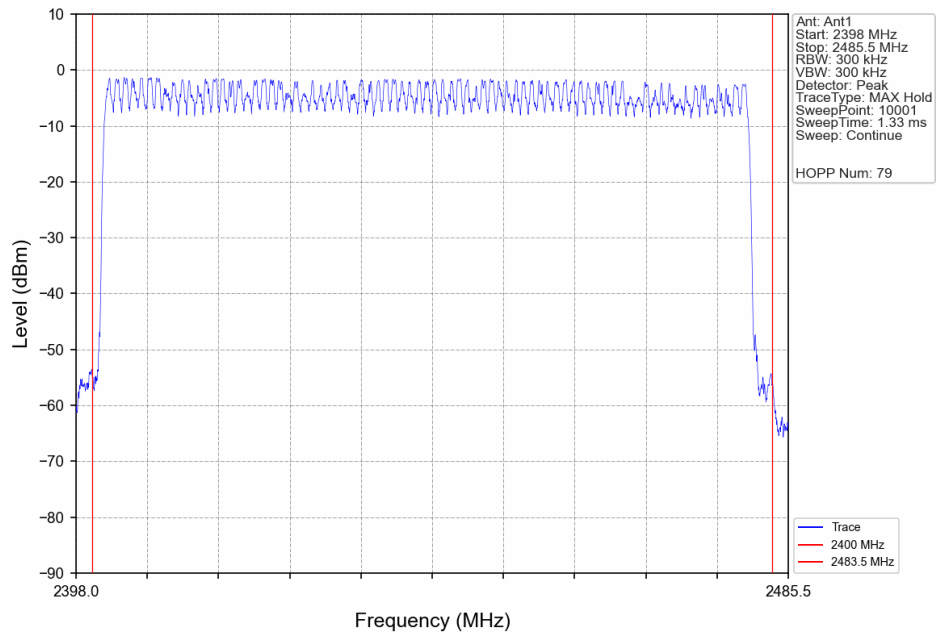
4.2 Test Graph

4.2.1 HoppNum





8DPSK_3DH5_HOPP_Ant1_NTNV





5. TIME OF OCCUPANCY (DWEELL 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	0.402	31.600	320	128.640	<=400	Pass
			DH3	1.654	31.600	160	264.640	<=400	Pass
			DH5	2.904	31.600	107	310.728	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.382	31.600	320	122.240	<=400	Pass
			2DH3	1.662	31.600	160	265.920	<=400	Pass
			2DH5	2.910	31.600	106	308.460	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.386	31.600	320	123.520	<=400	Pass
			3DH3	1.664	31.600	160	266.240	<=400	Pass
			3DH5	2.916	31.600	107	312.012	<=400	Pass

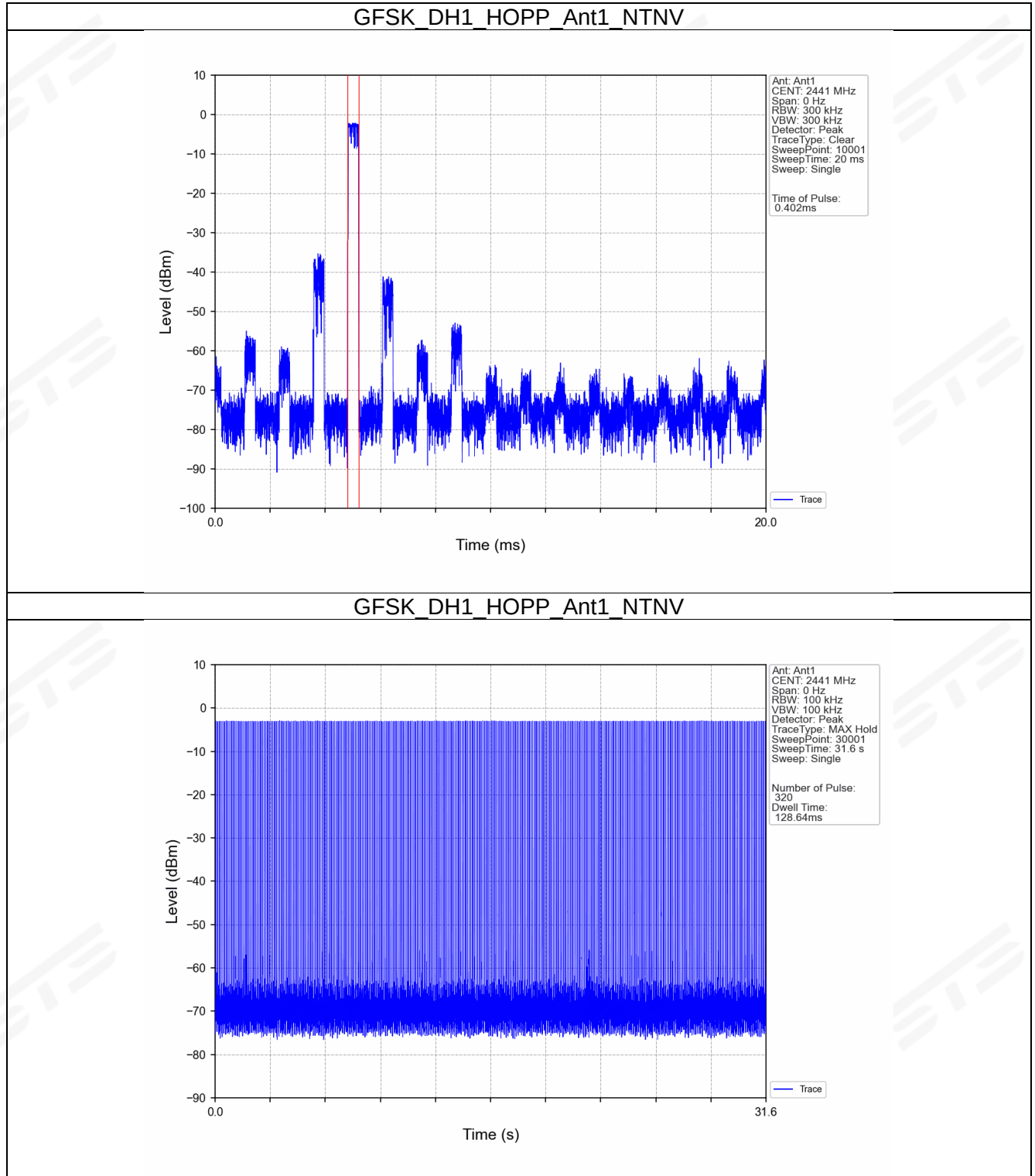
5.1.2 DwellTime_Ant1

Ant1						
Mode	TX Type	Frequency (MHz)	Packet Type	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH5	2.893	/	Pass



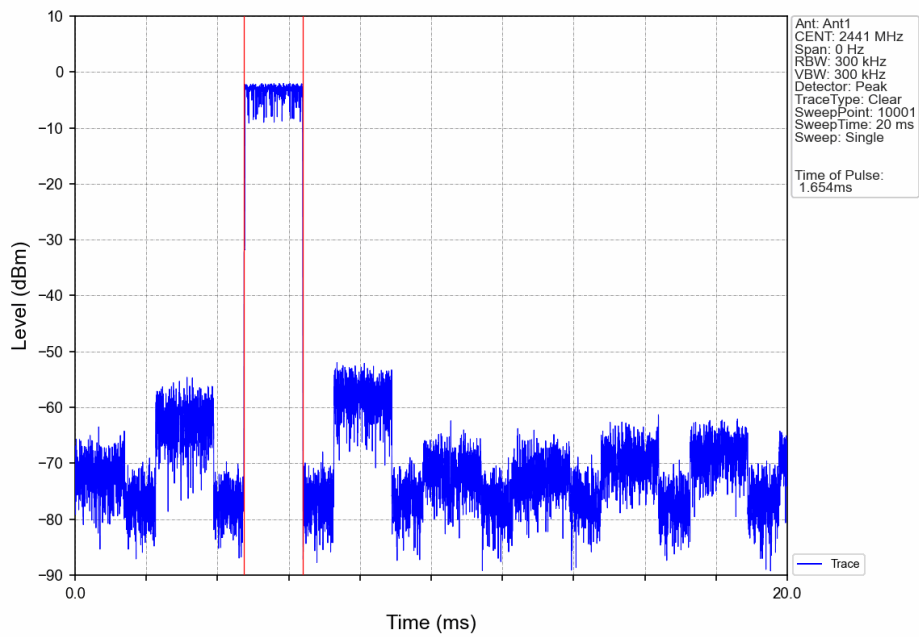
5.2 Test Graph

5.2.1 Ant1

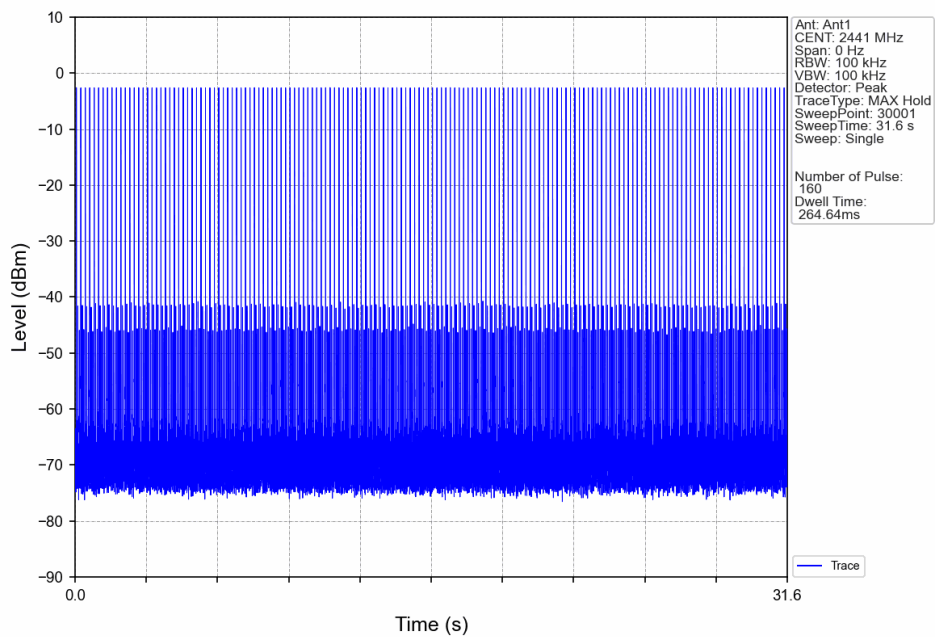




GFSK_DH3_HOPP_Ant1_NTNV

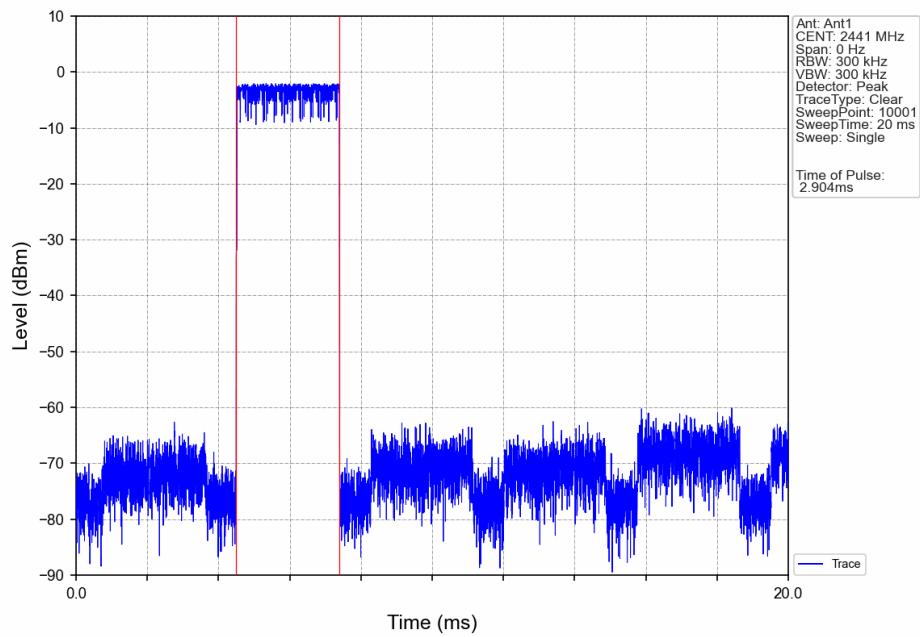


GFSK_DH3_HOPP_Ant1_NTNV

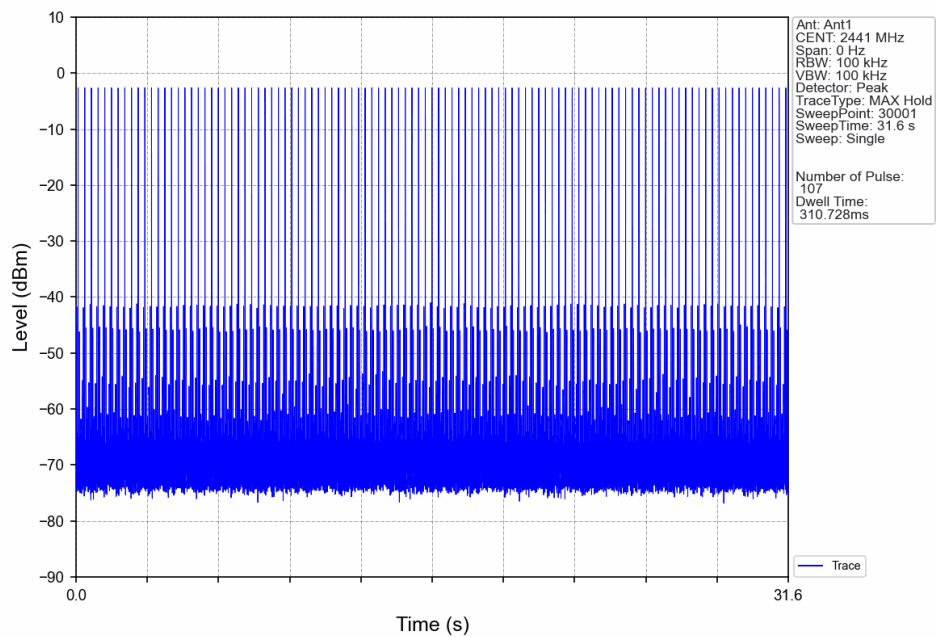




GFSK_DH5_HOPP_Ant1_NTNV

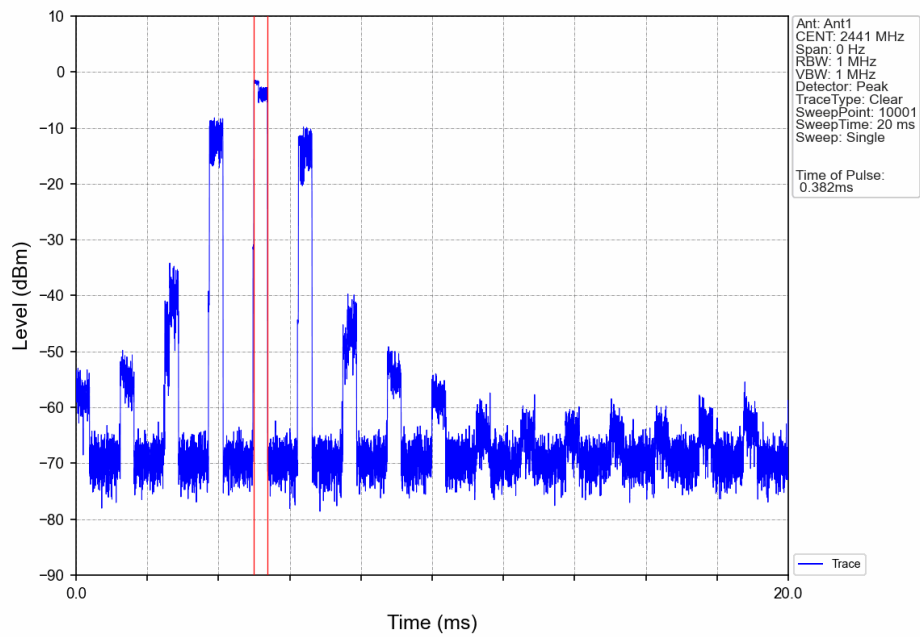


GFSK_DH5_HOPP_Ant1_NTNV

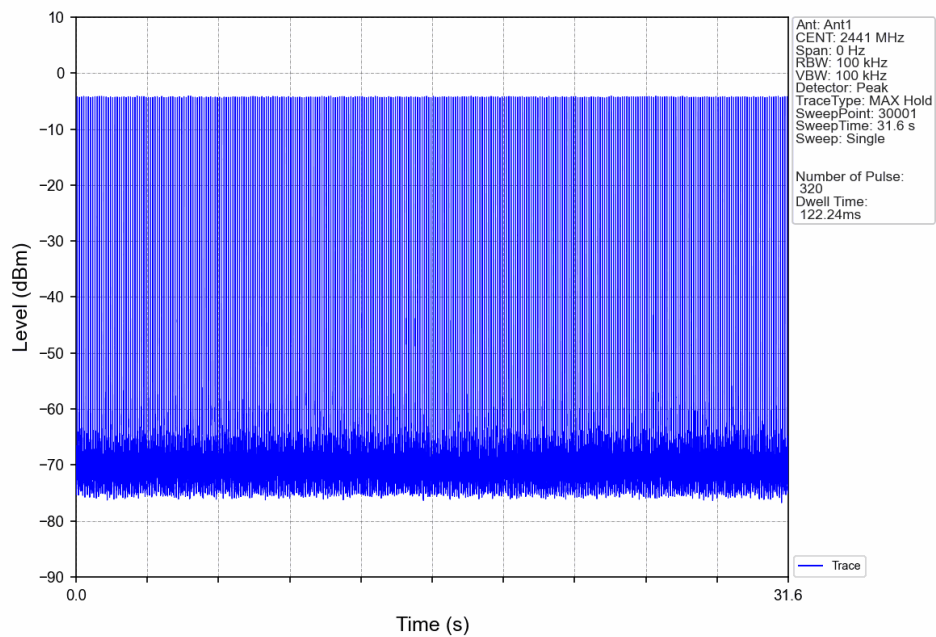




Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV

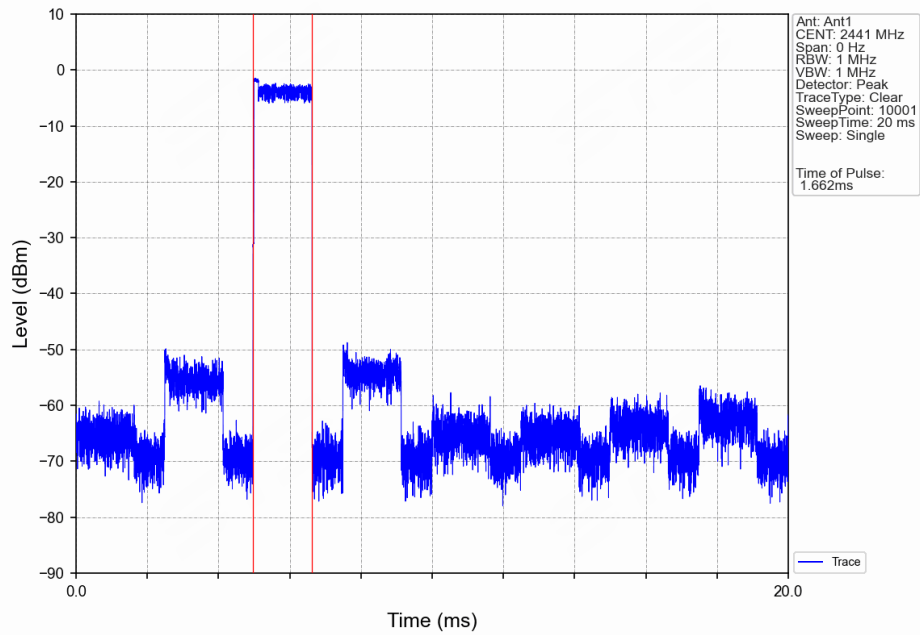


Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV

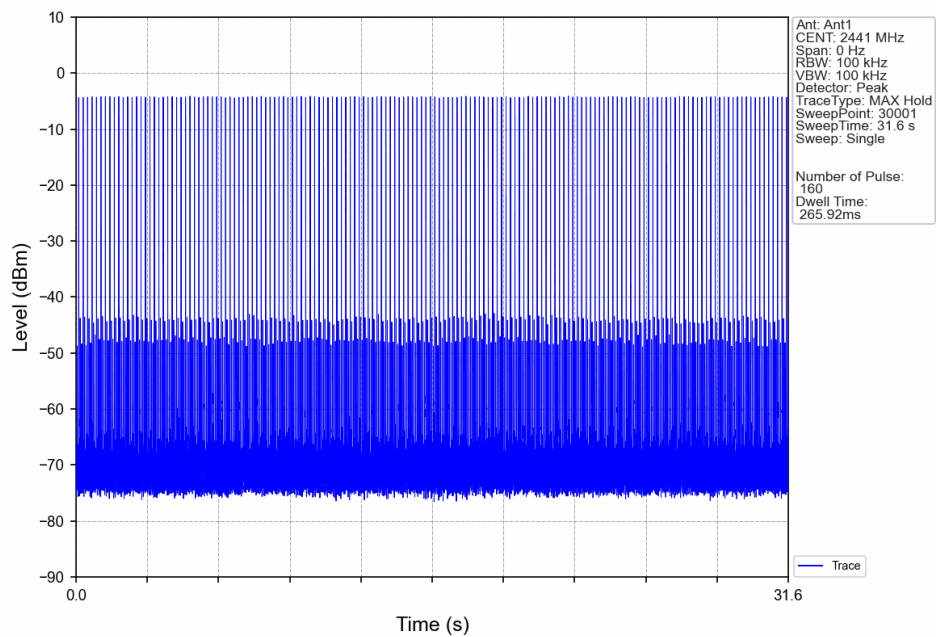




Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV

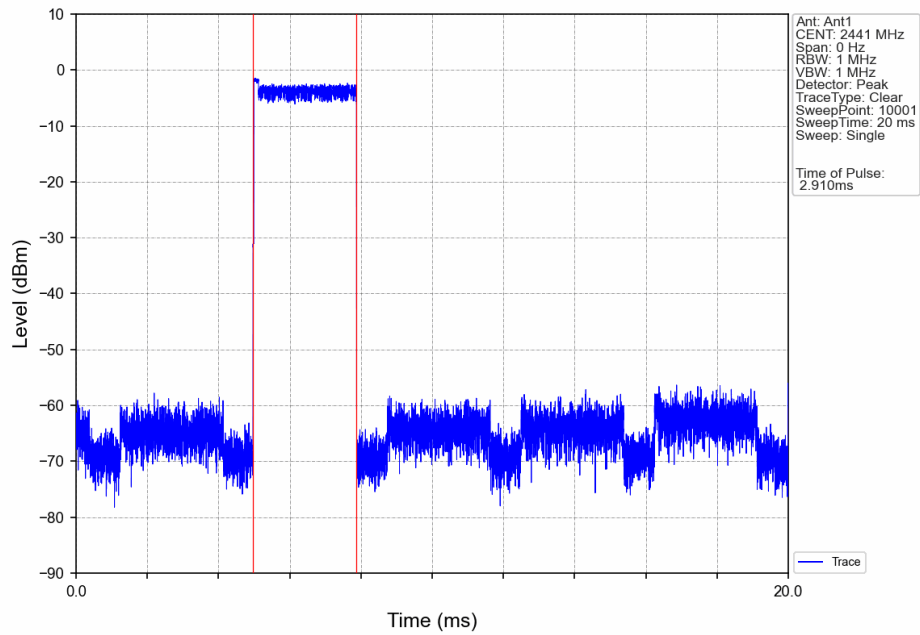


Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV

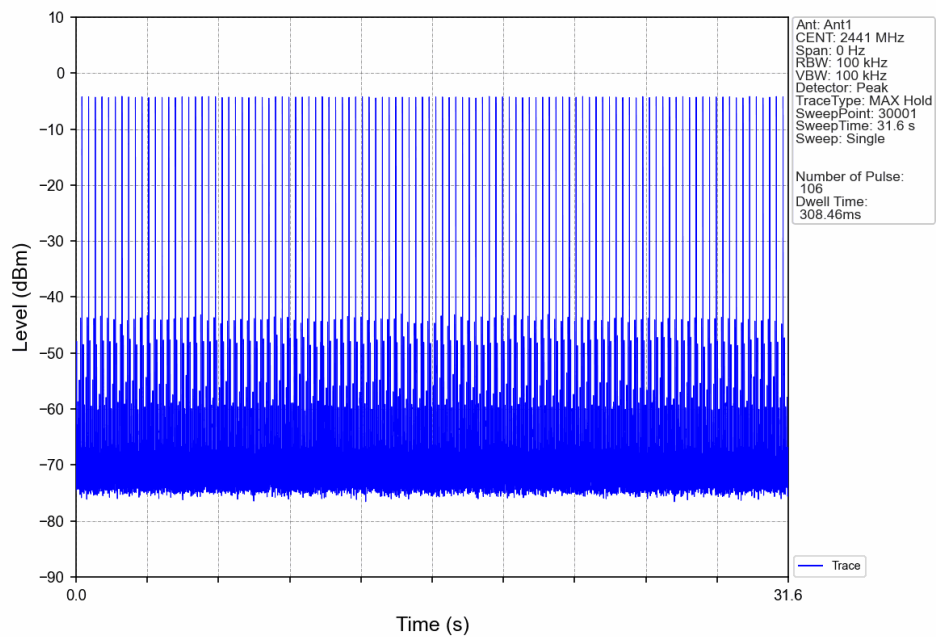




Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

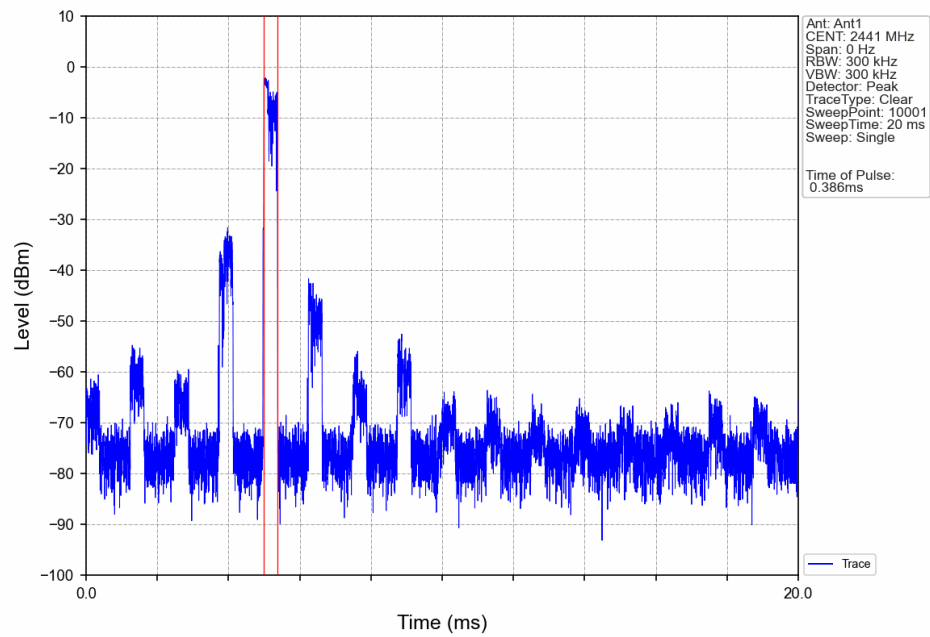


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

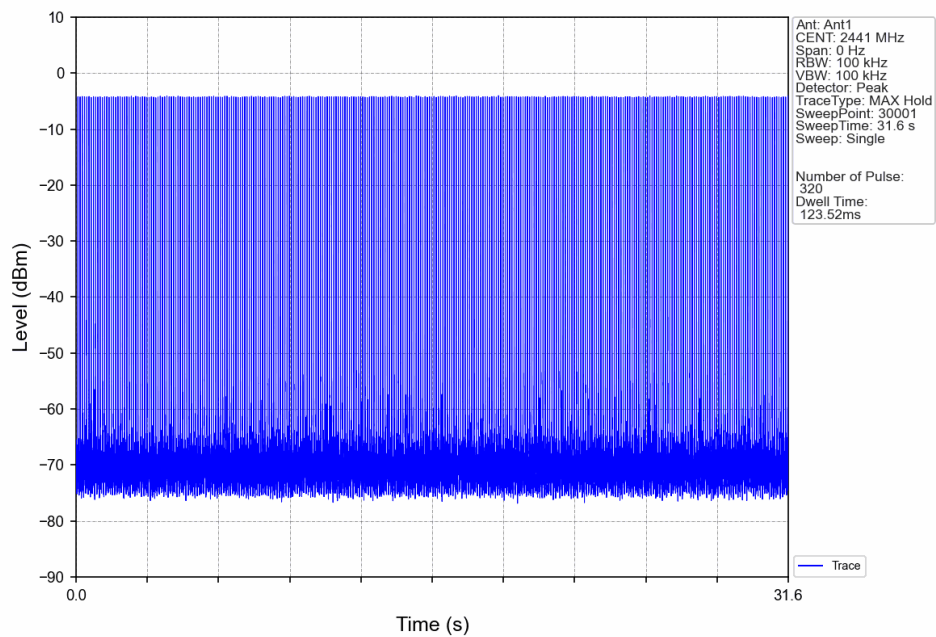




8DPSK_3DH1_HOPP_Ant1_NTNV

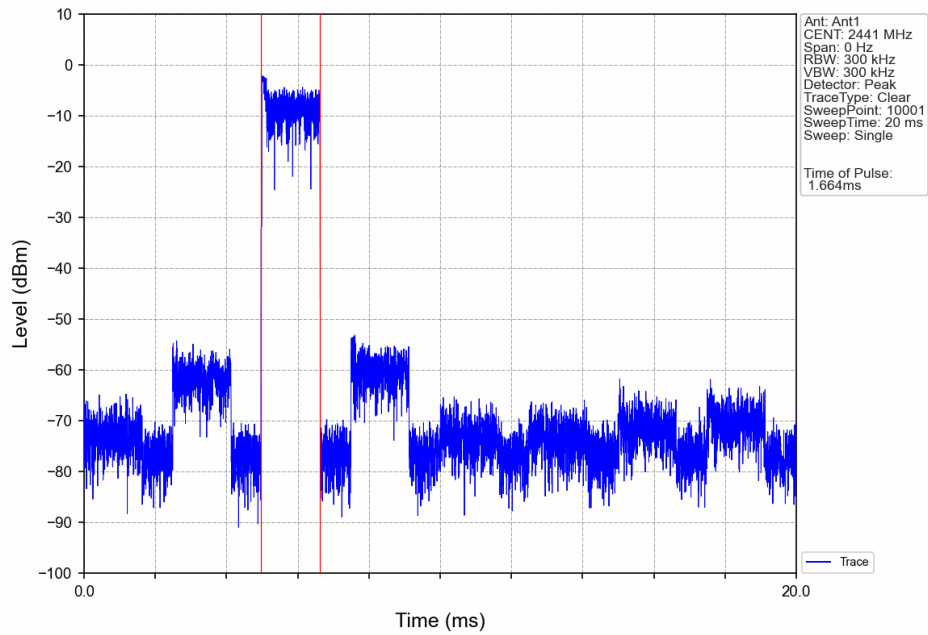


8DPSK_3DH1_HOPP_Ant1_NTNV

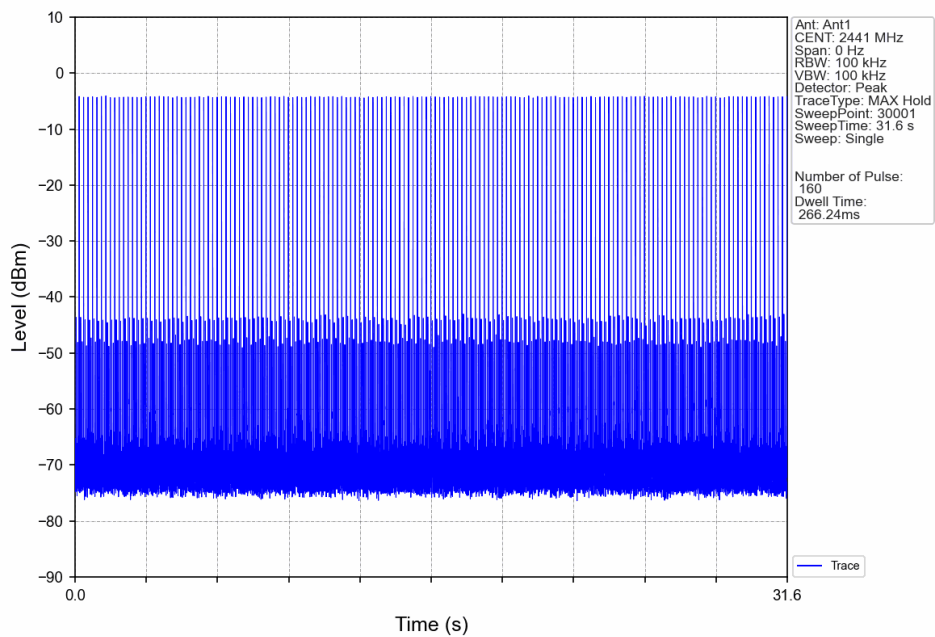




8DPSK_3DH3_HOPP_Ant1_NTNV

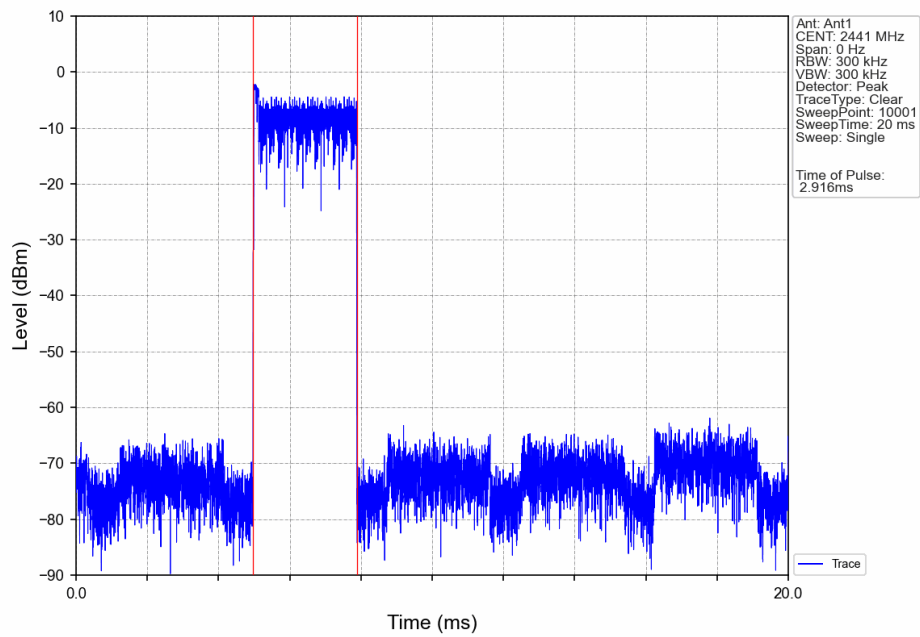


8DPSK_3DH3_HOPP_Ant1_NTNV

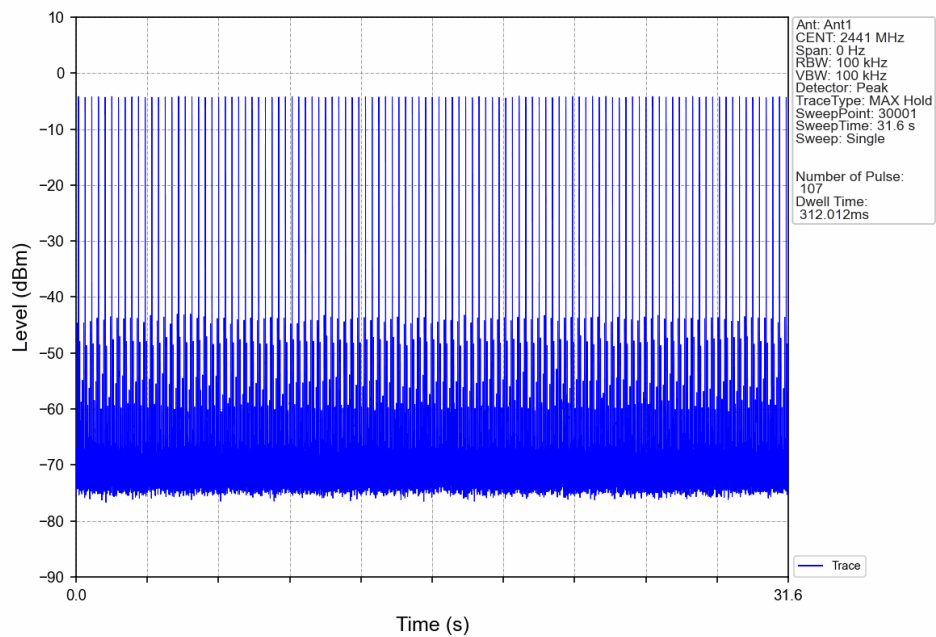




8DPSK_3DH5_HOPP_Ant1_NTNV

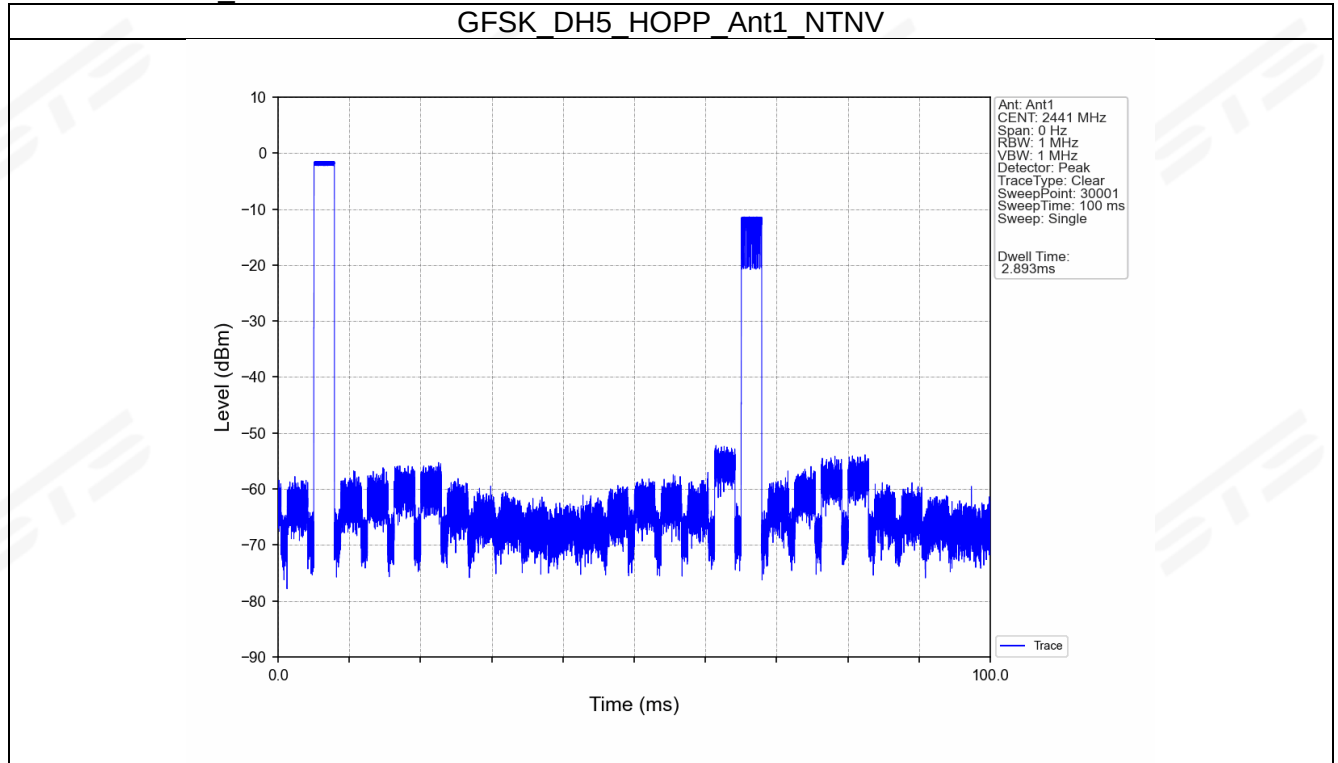


8DPSK_3DH5_HOPP_Ant1_NTNV





5.2.2 DwellTime_Ant1





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	-1.61
		2441	DH5	1	-2.03
		2480	DH5	1	-2.69
Pi/4DQPSK	SISO	2402	2DH5	1	-1.78
		2441	2DH5	1	-2.09
		2480	2DH5	1	-2.88
8DPSK	SISO	2402	3DH5	1	-1.60
		2441	3DH5	1	-1.84
		2480	3DH5	1	-2.79

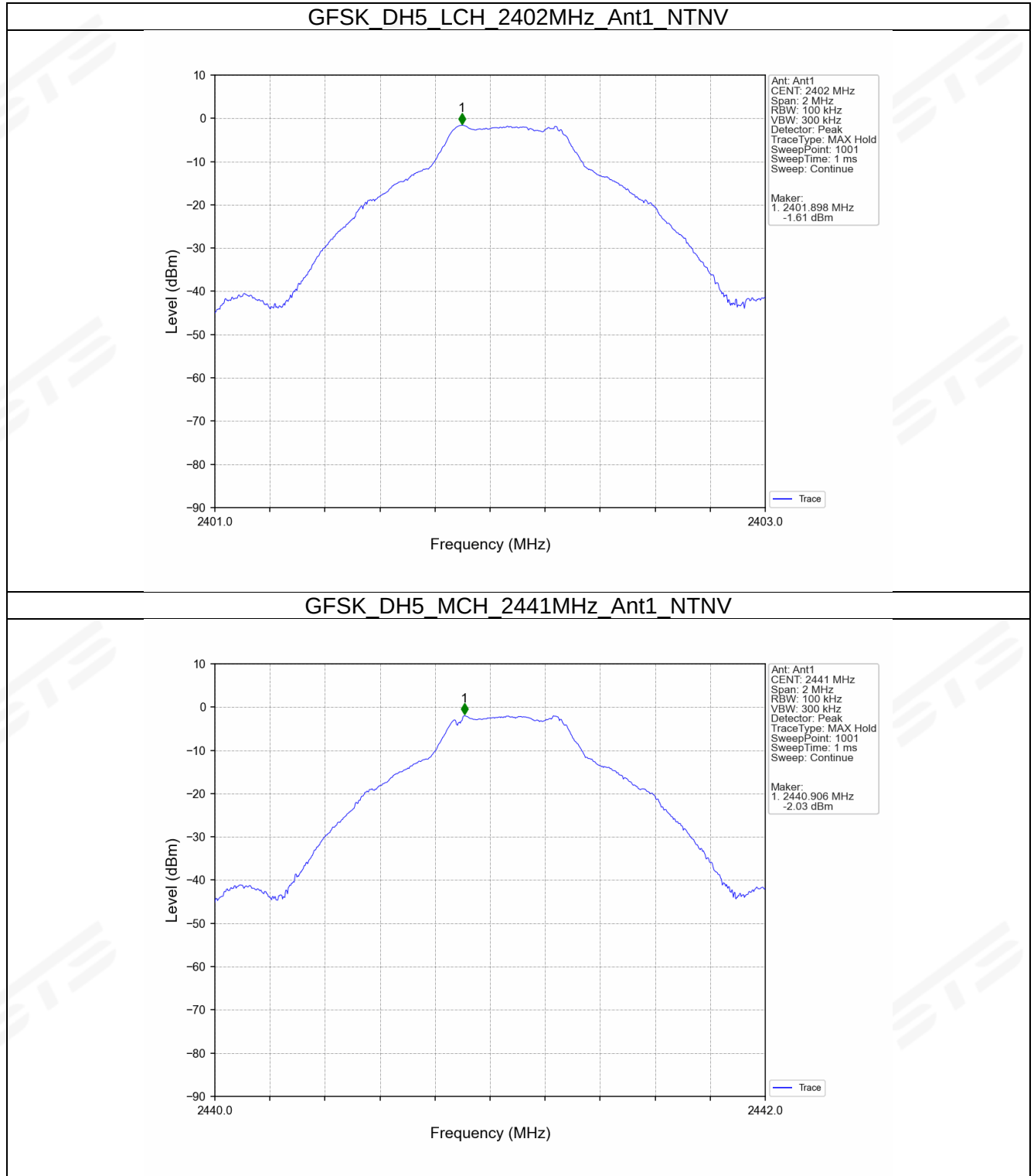
6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-1.61	-21.61	Pass
		2441	DH5	1	-1.61	-21.61	Pass
		2480	DH5	1	-1.61	-21.61	Pass
		HOPP	DH5	1	-1.61	-21.61	Pass
					-1.61	-21.61	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-1.78	-21.78	Pass
		2441	2DH5	1	-1.78	-21.78	Pass
		2480	2DH5	1	-1.78	-21.78	Pass
		HOPP	2DH5	1	-1.78	-21.78	Pass
					-1.78	-21.78	Pass
8DPSK	SISO	2402	3DH5	1	-1.60	-21.60	Pass
		2441	3DH5	1	-1.60	-21.60	Pass
		2480	3DH5	1	-1.60	-21.60	Pass
		HOPP	3DH5	1	-1.60	-21.60	Pass
					-1.60	-21.60	Pass



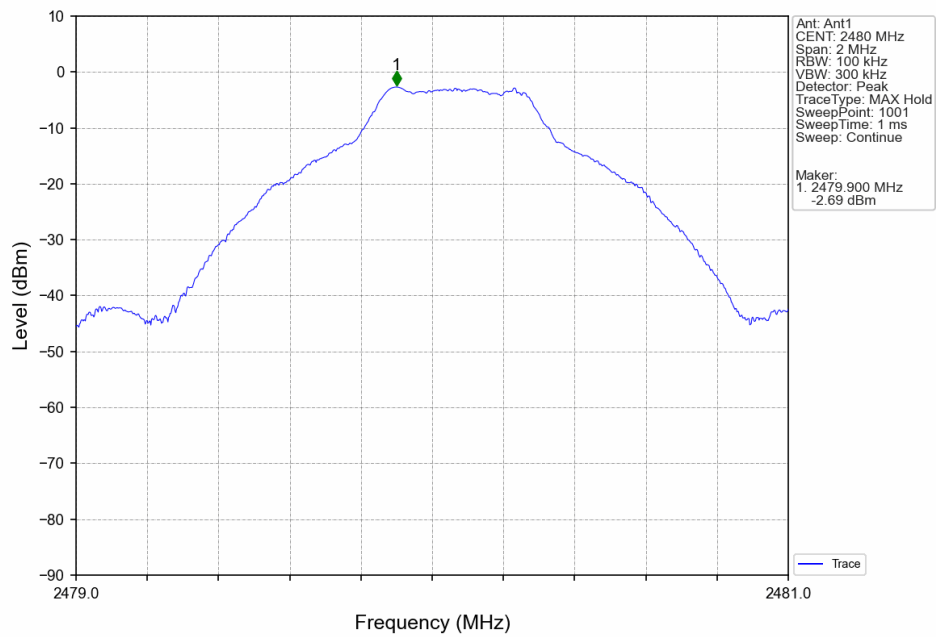
6.2 Test Graph

6.2.1 Ref

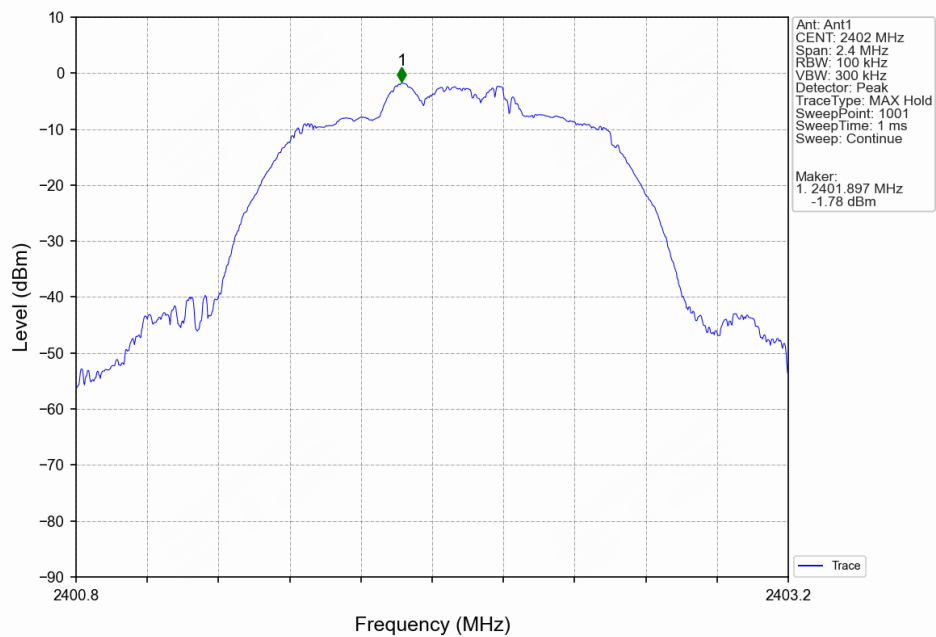




GFSK_DH5_HCH_2480MHz_Ant1_NTNV

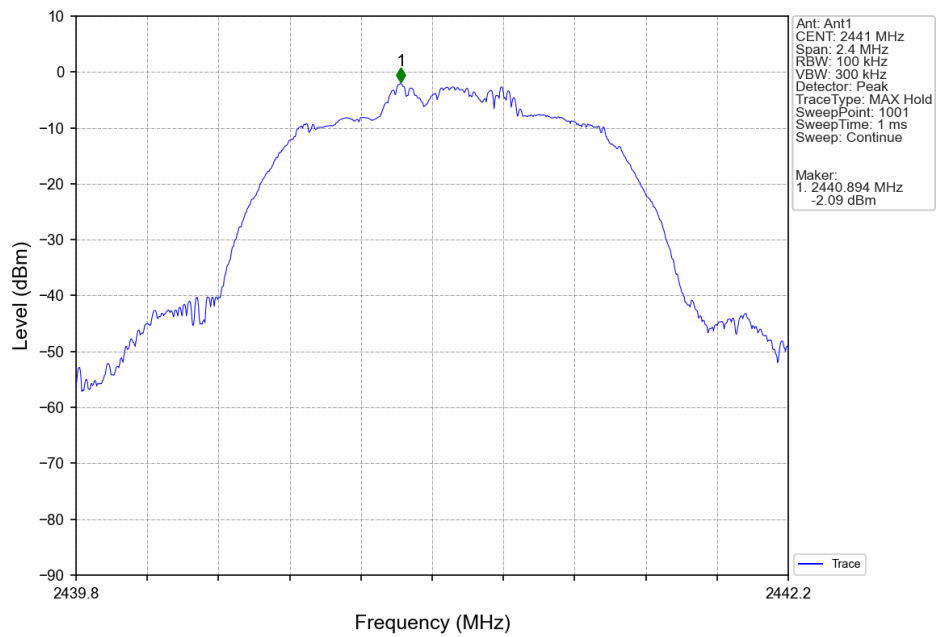


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

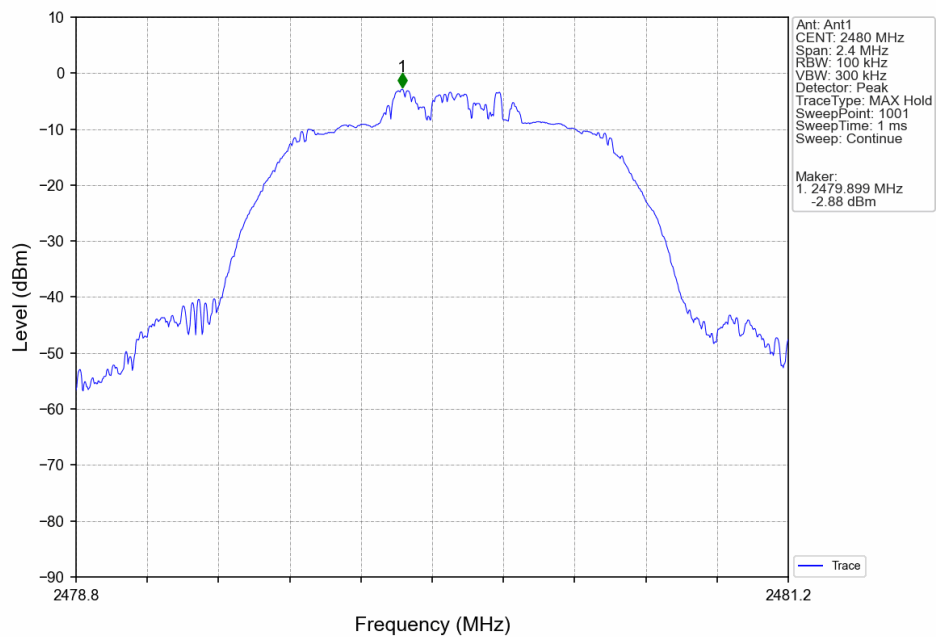




Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

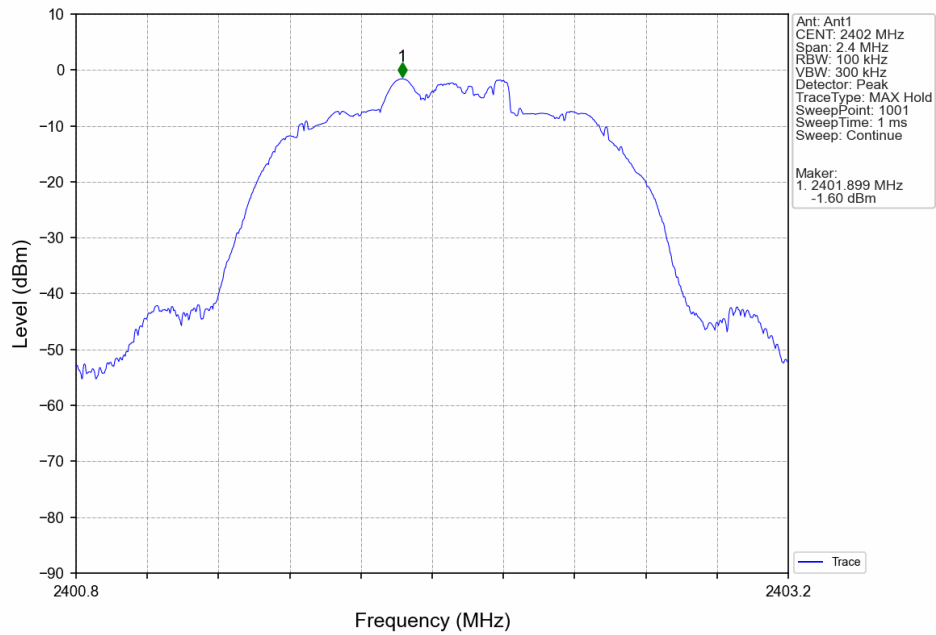


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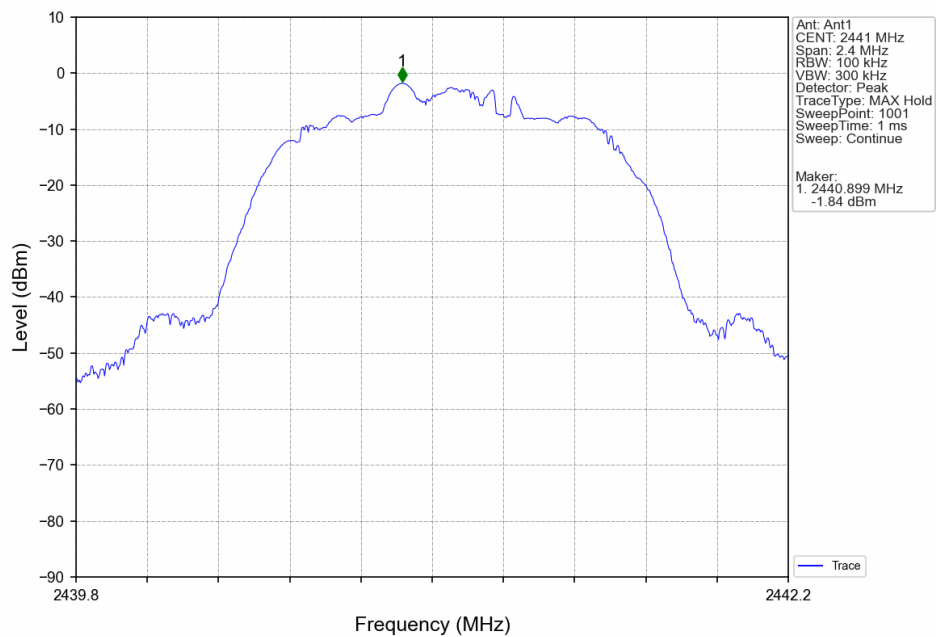




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

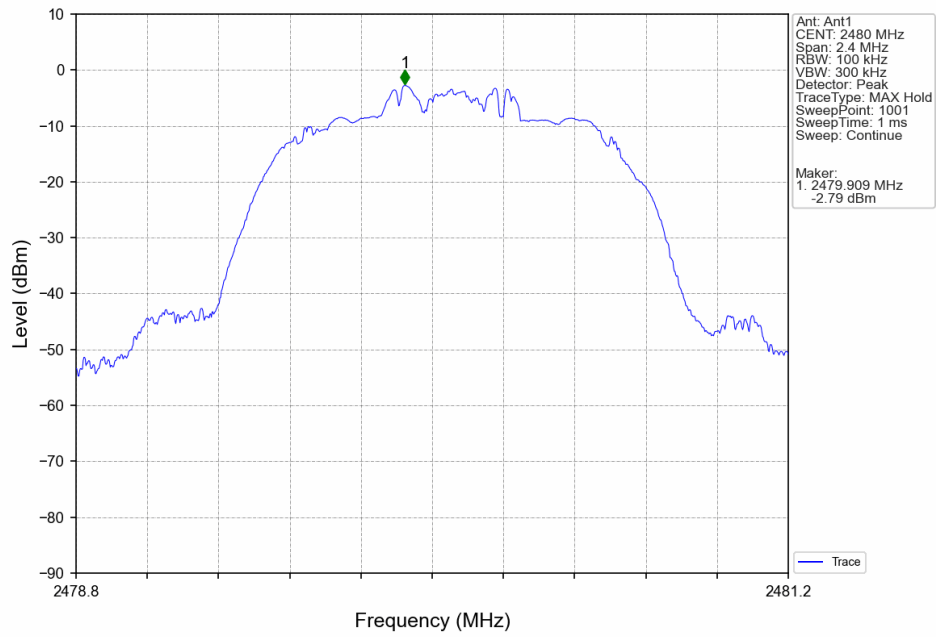


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





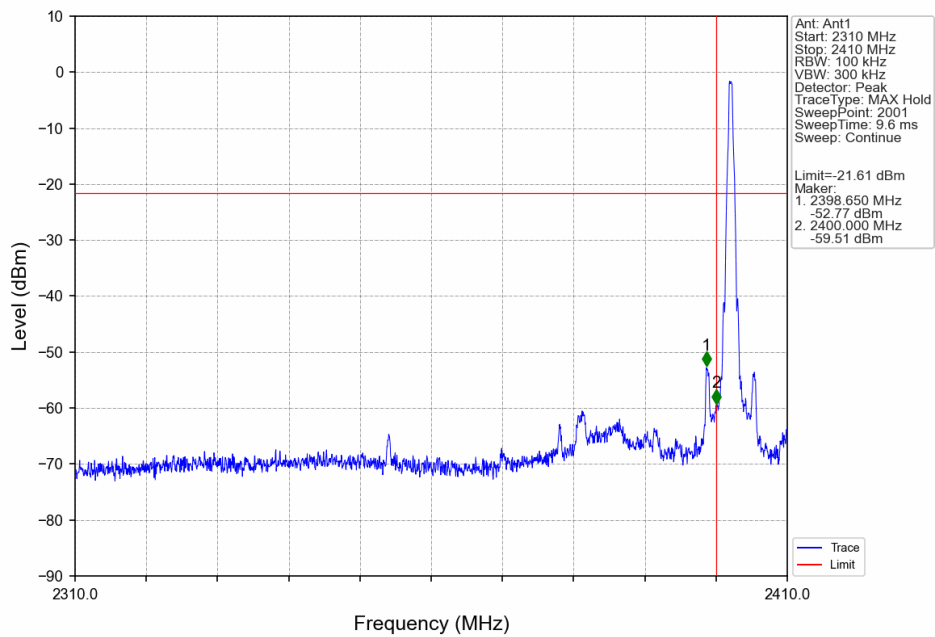
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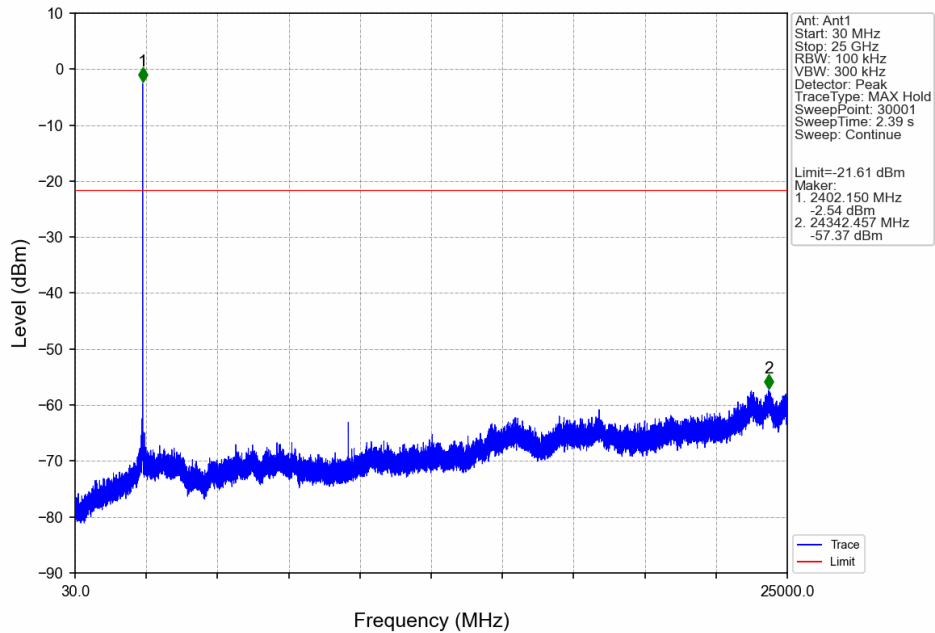


6.2.2 CSE

GFSK_DH5_LCH_2402MHz_Ant1_NTNV

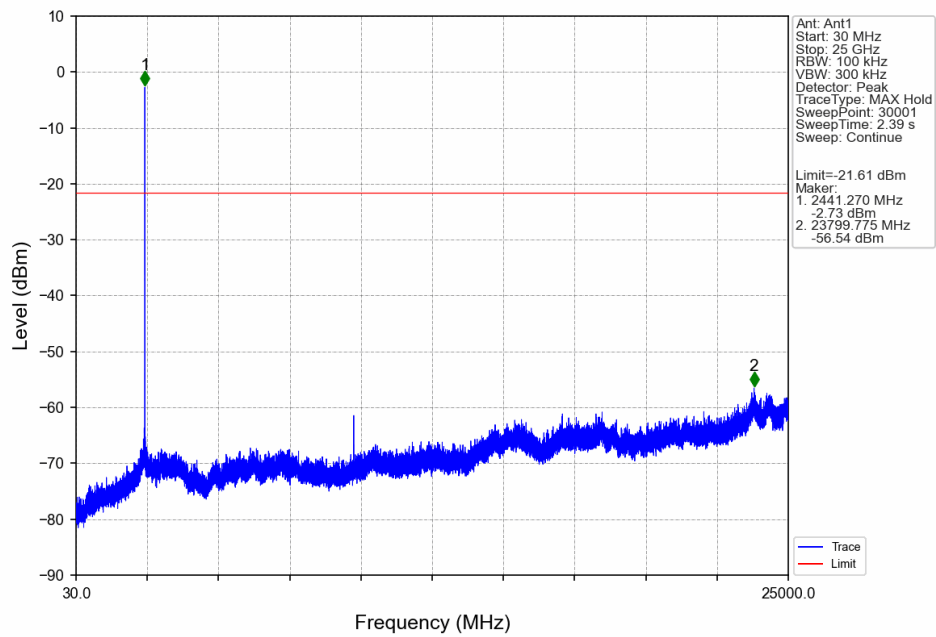


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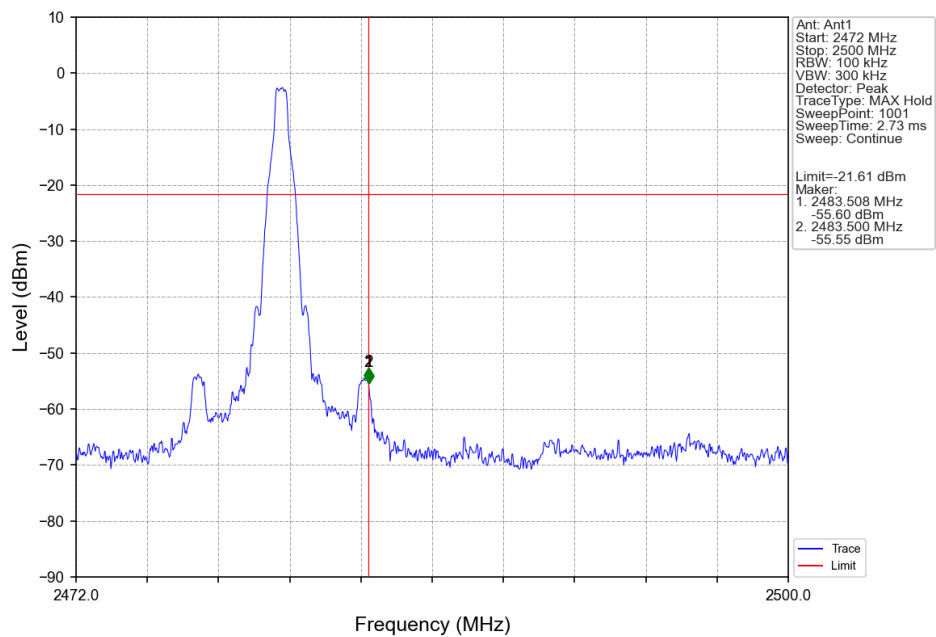




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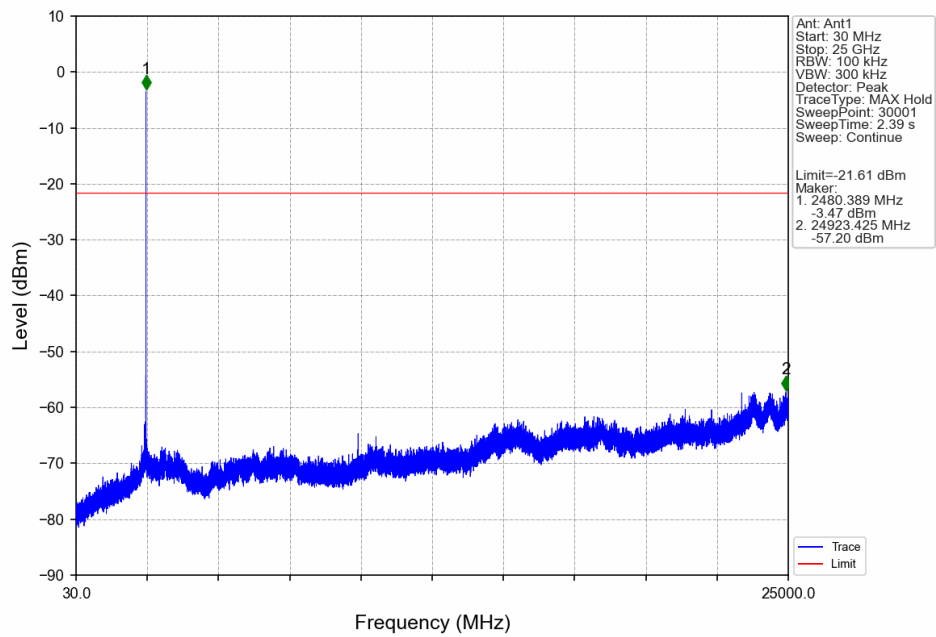


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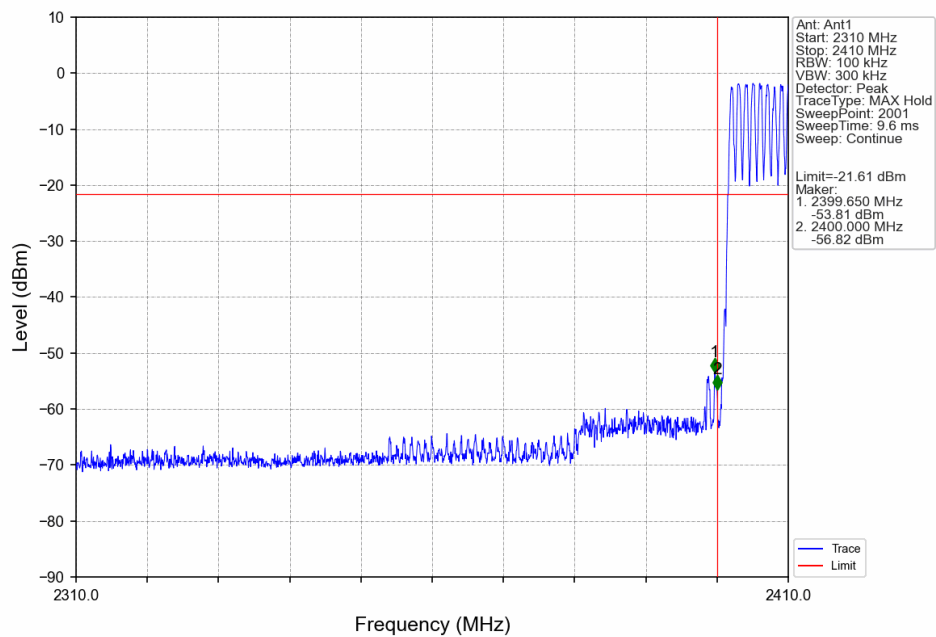




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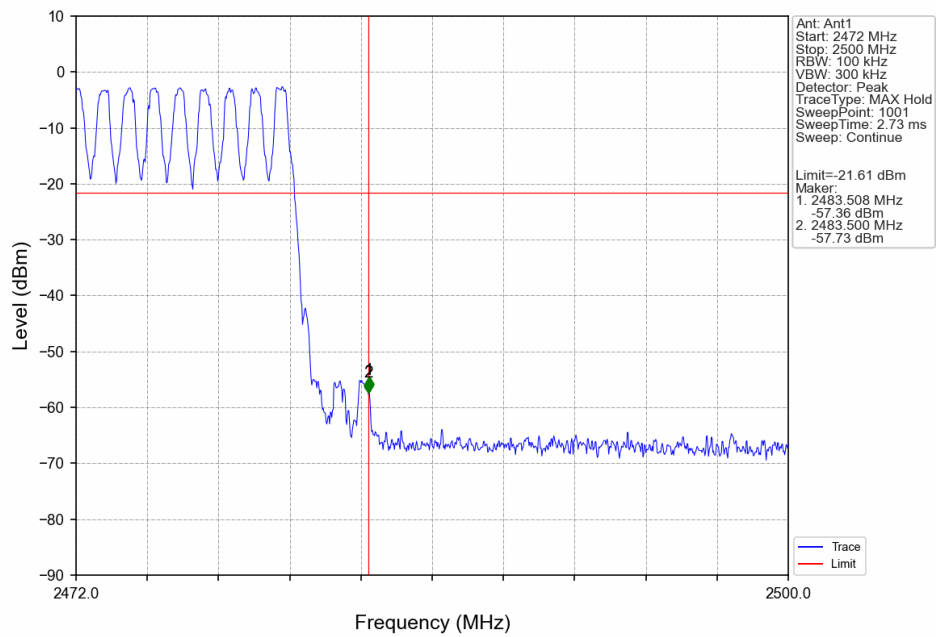


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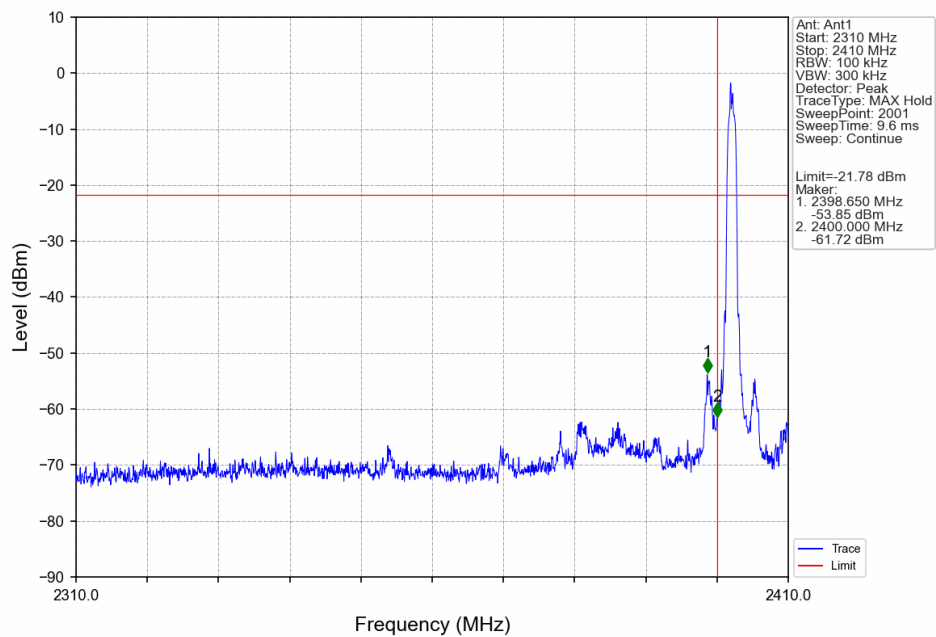




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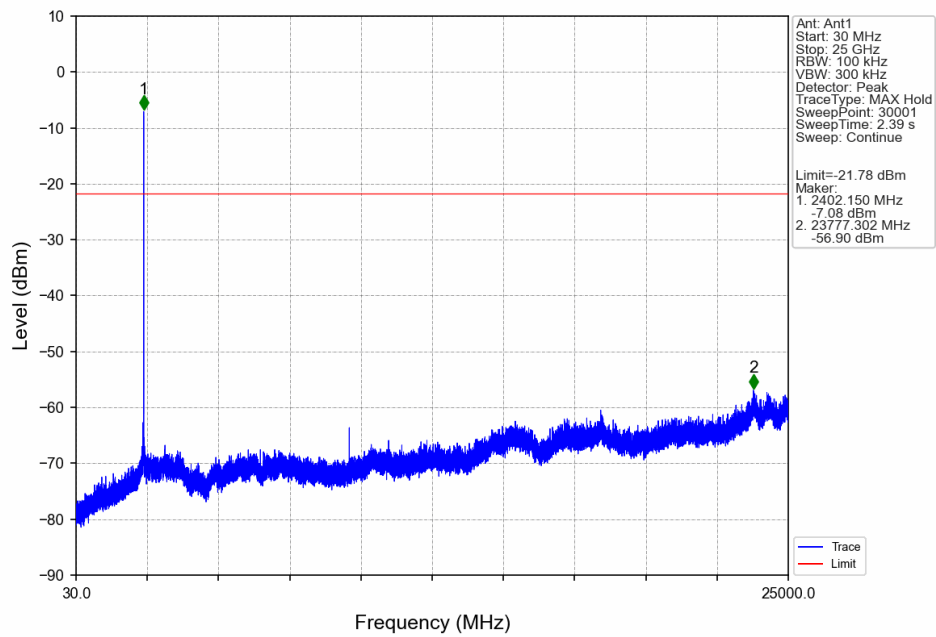


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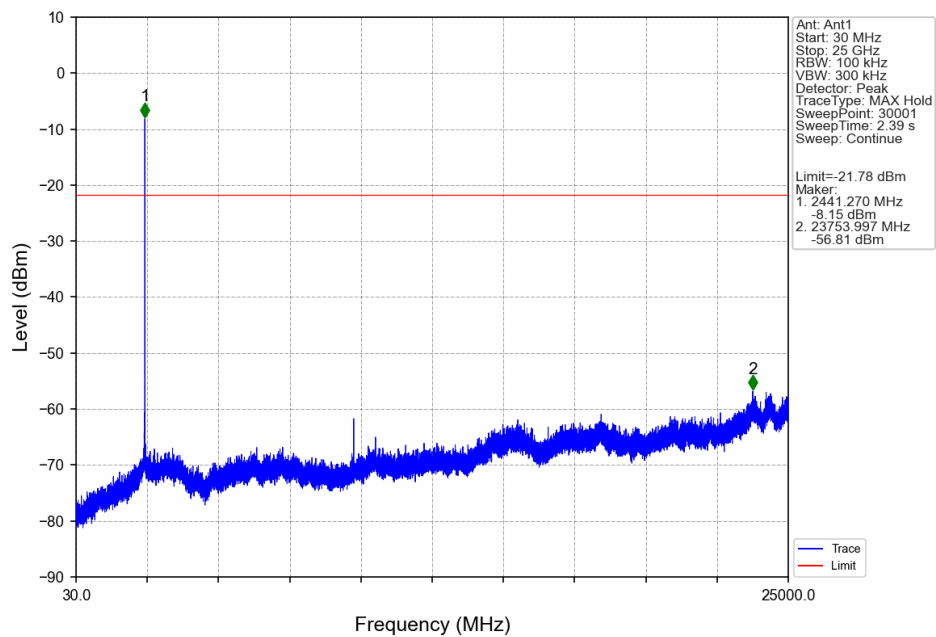




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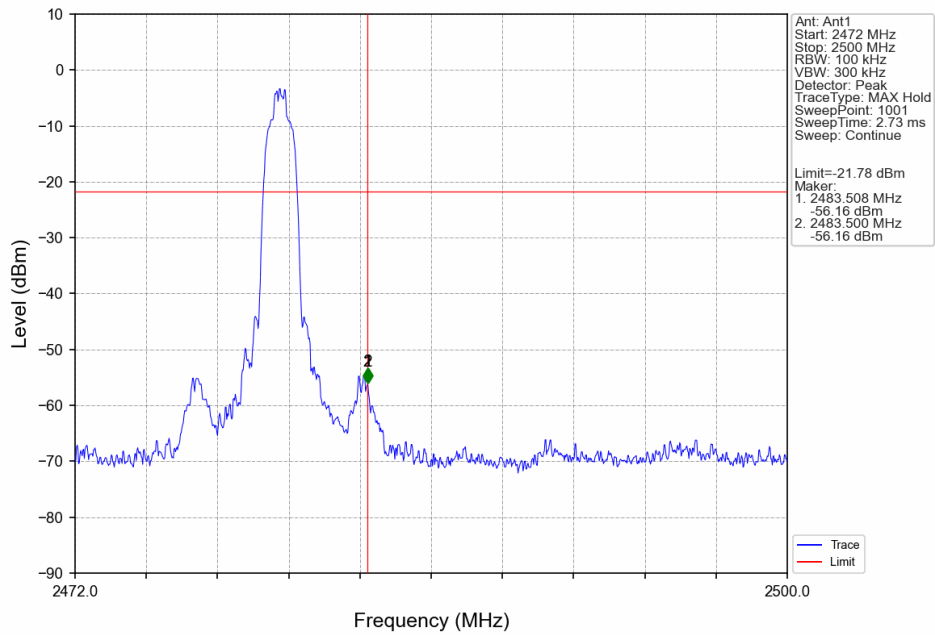


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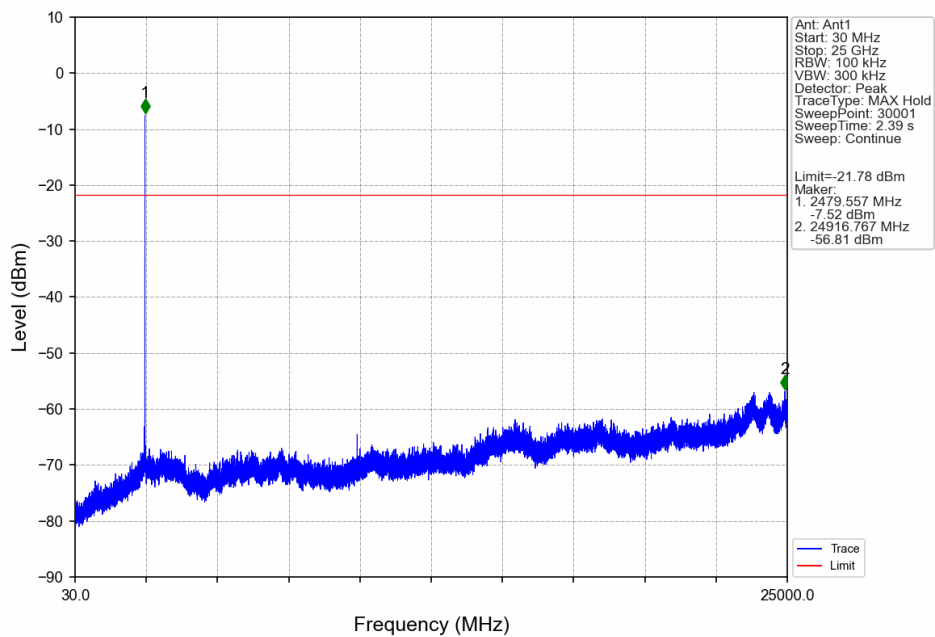




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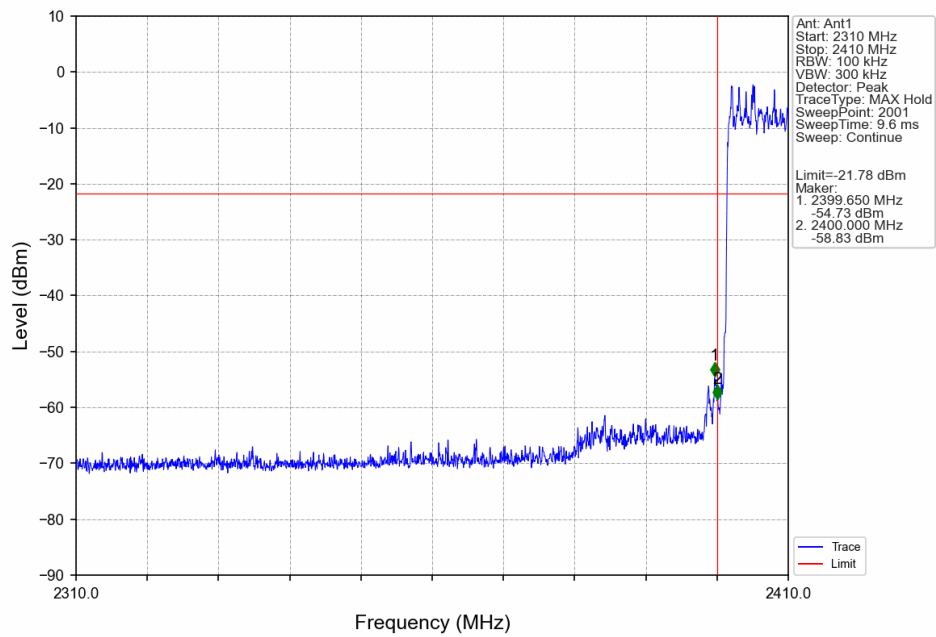


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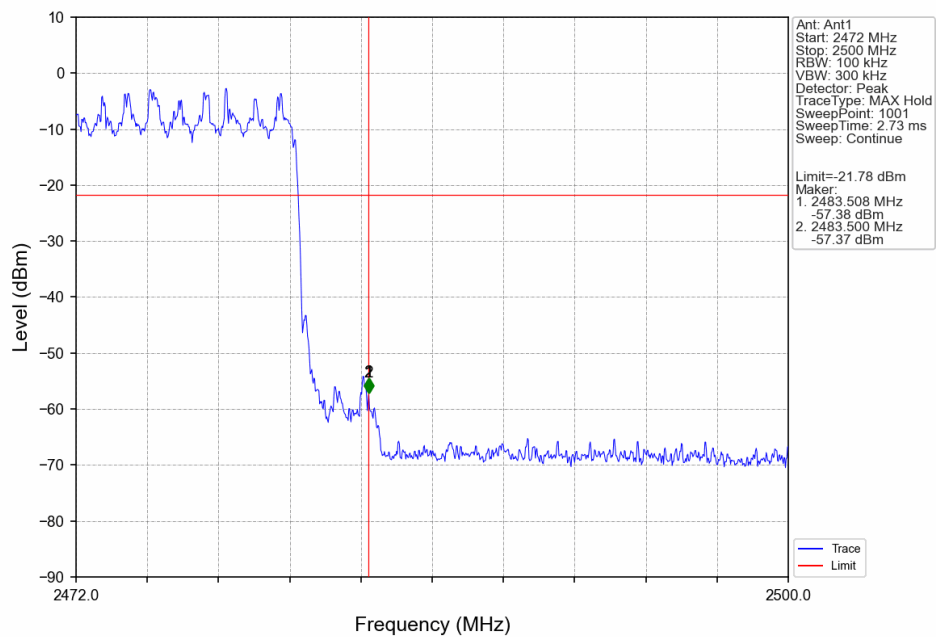




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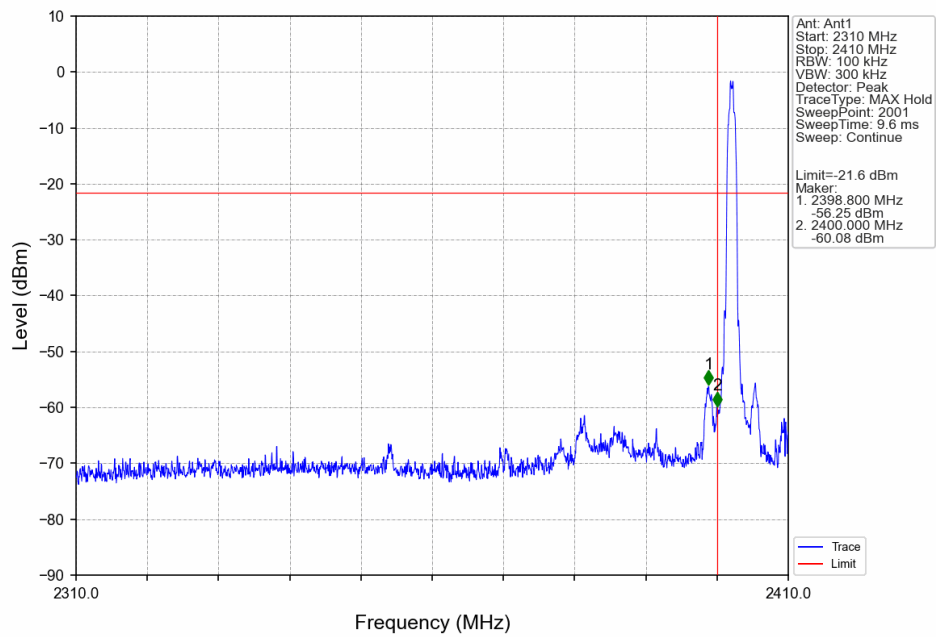


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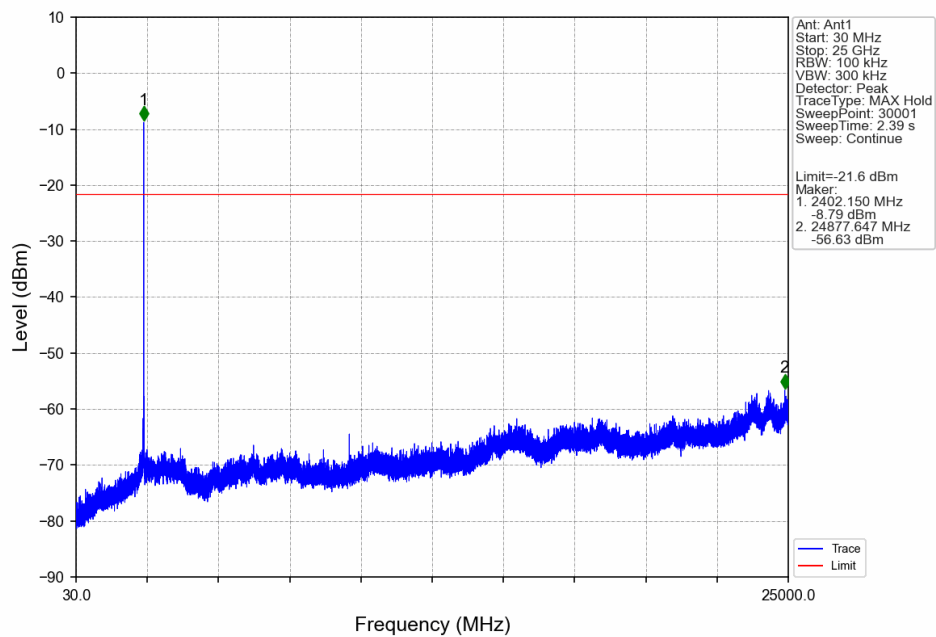




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

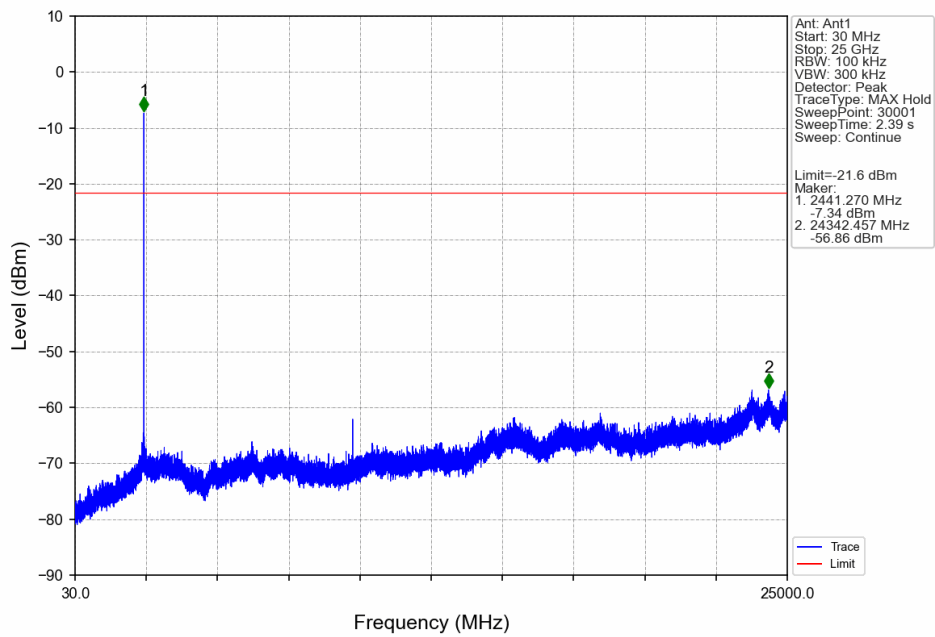


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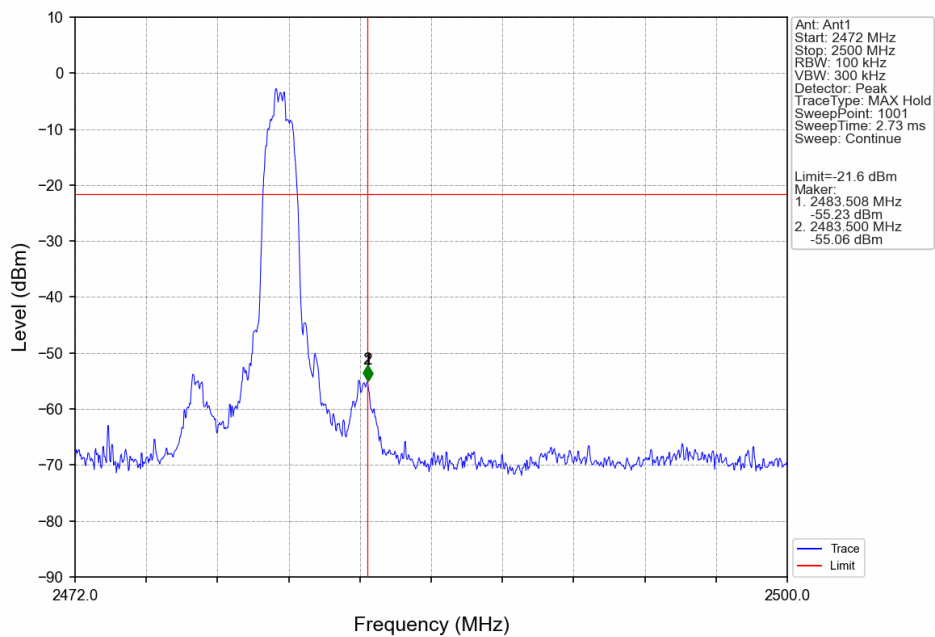




8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

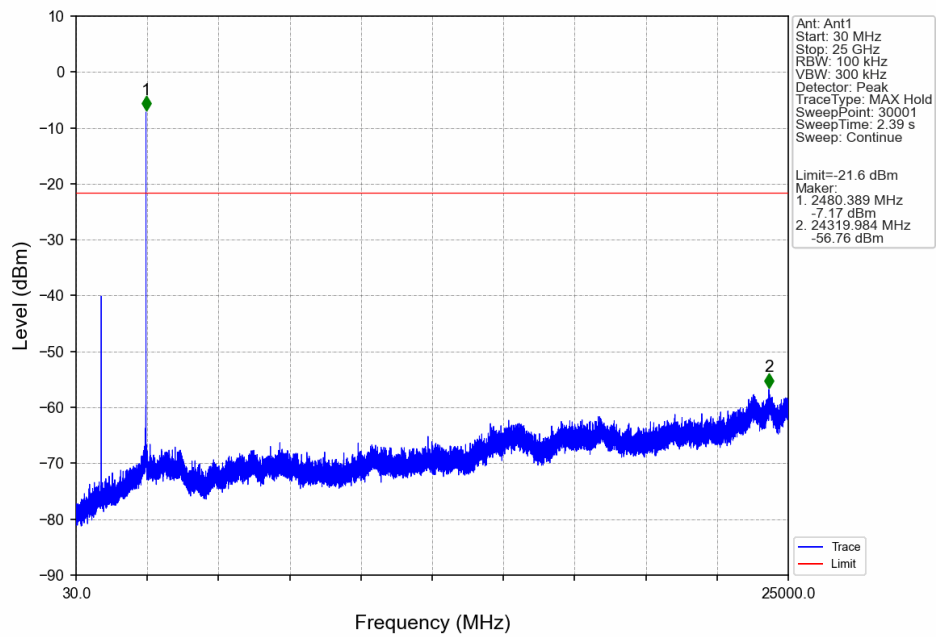


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

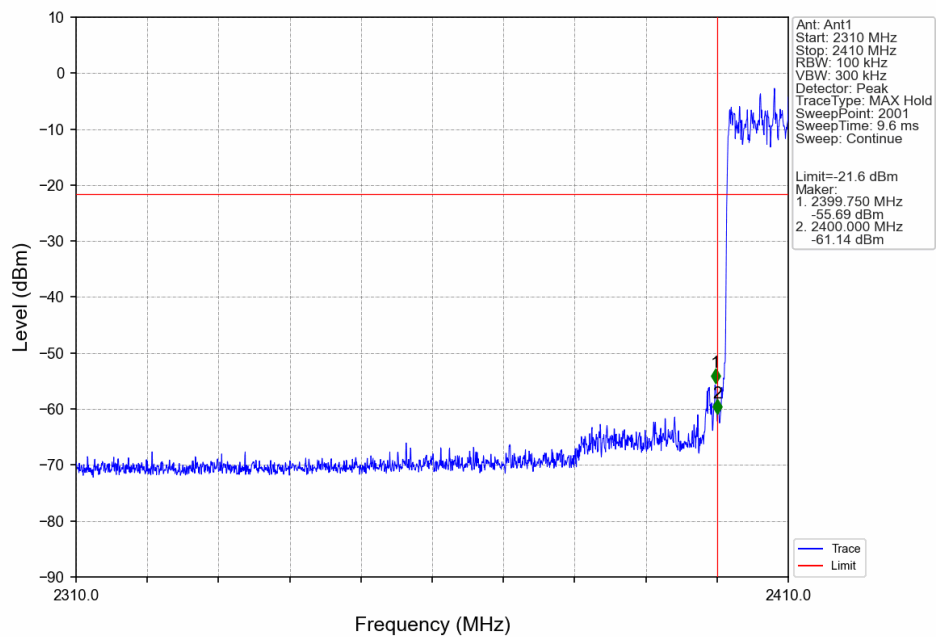




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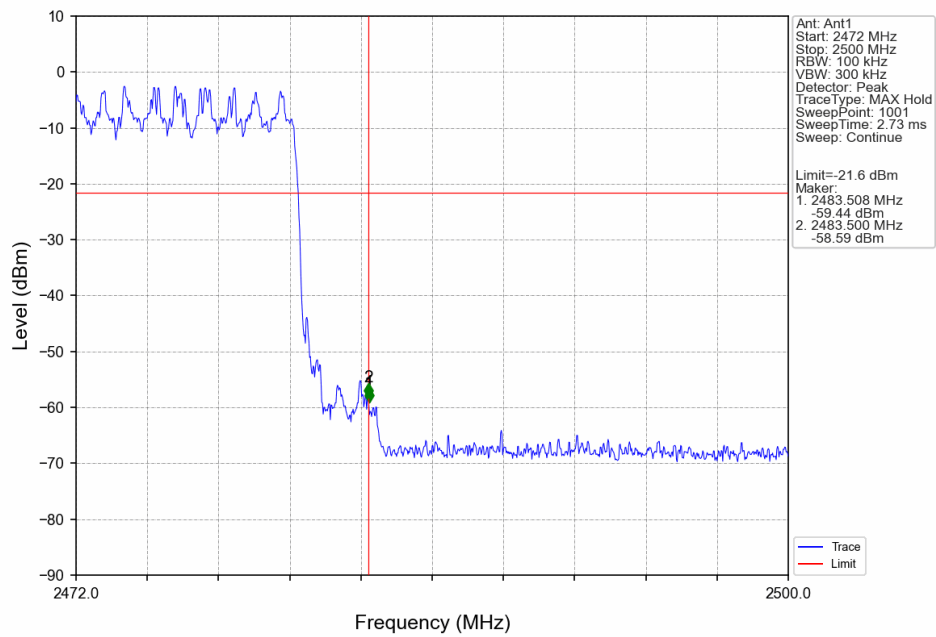


8DPSK_3DH5_HOPP_Ant1_NTNV





8DPSK_3DH5_HOPP_Ant1_NTNV





7. FORM731

7.1 Test Result

7.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0008	-1.06



APPENDIX 2-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

*****END OF THE REPORT*****