



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Electric Scooter for Kids

Test Model: S7

Environmental Conditions

Temperature:	24.9°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng





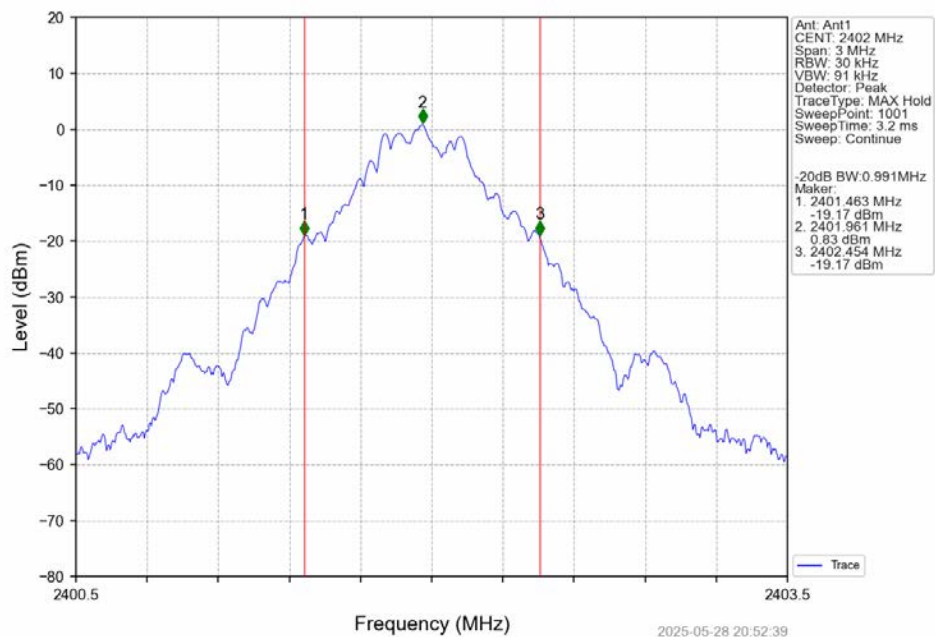
A.1 -20dB Bandwidth

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.991	/	Pass
		2441	DH5	1	1.016	/	Pass
		2480	DH5	1	2.112	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.289	/	Pass
		2441	2DH5	1	1.298	/	Pass
		2480	2DH5	1	2.134	/	Pass
8DPSK	SISO	2402	3DH5	1	1.245	/	Pass
		2441	3DH5	1	1.242	/	Pass
		2480	3DH5	1	2.139	/	Pass

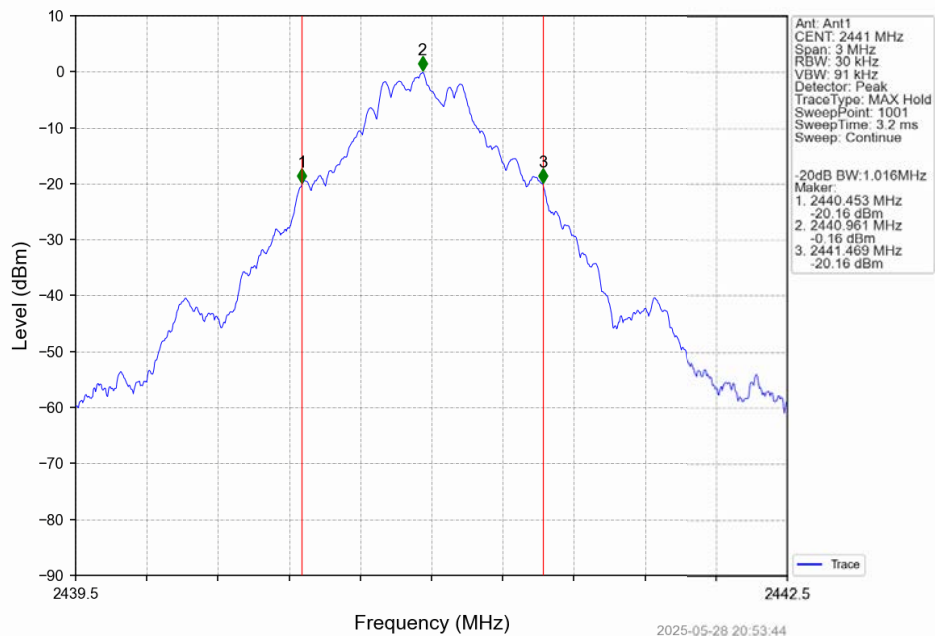




GFSK_DH5_LCH_2402MHz_Ant1_NTNV

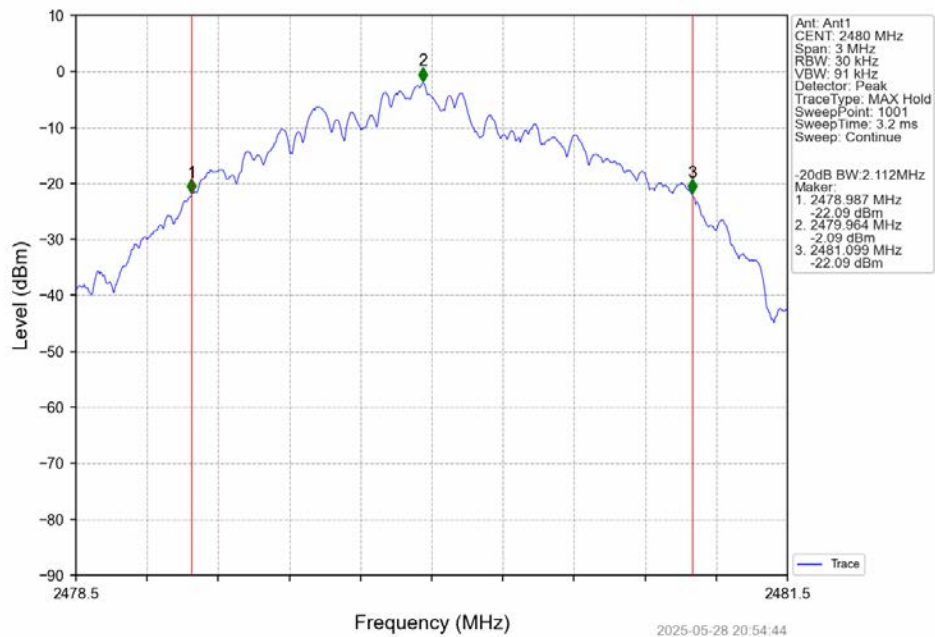


GFSK_DH5_MCH_2441MHz_Ant1_NTNV

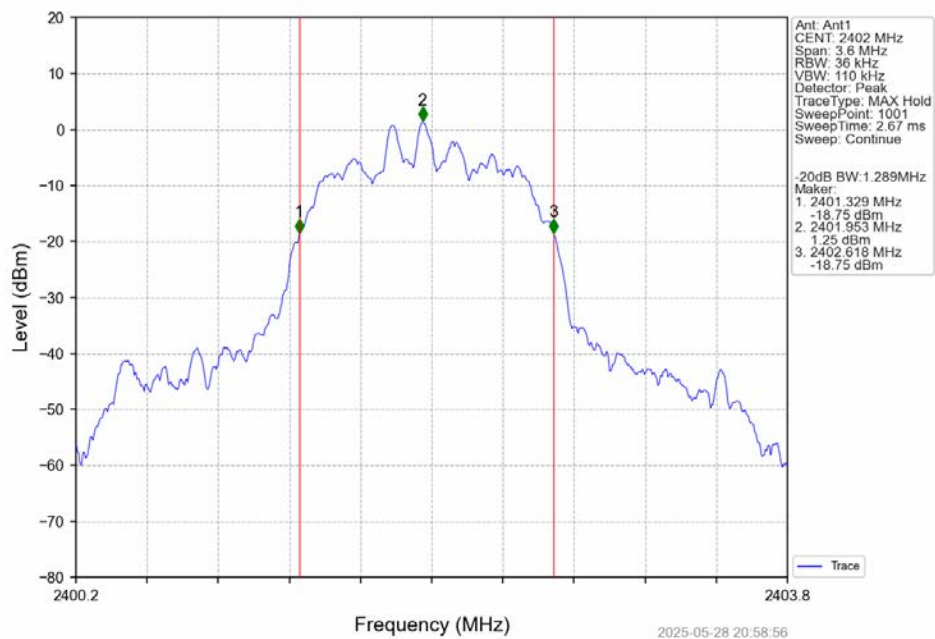




GFSK_DH5_HCH_2480MHz_Ant1_NTNV

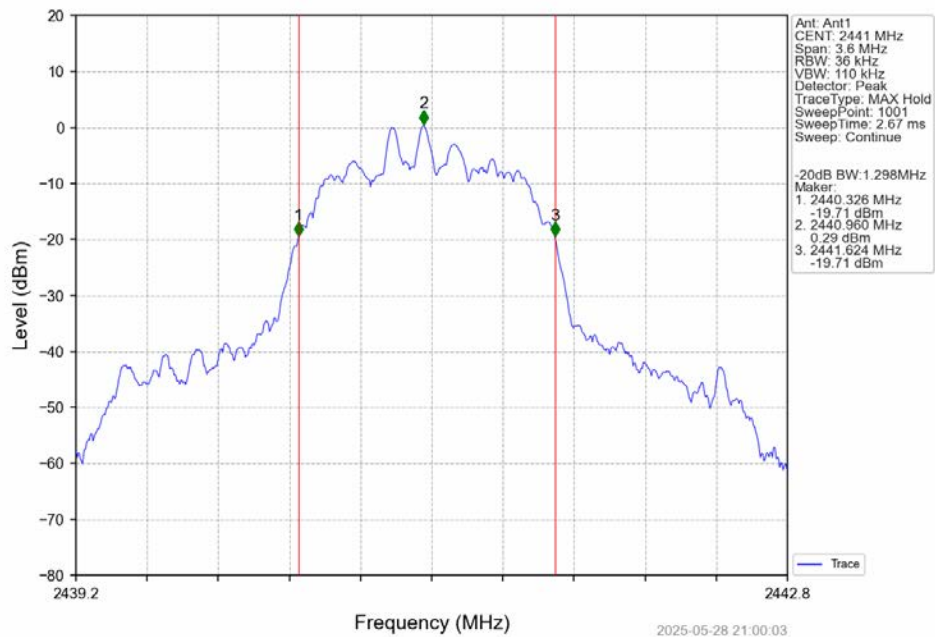


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

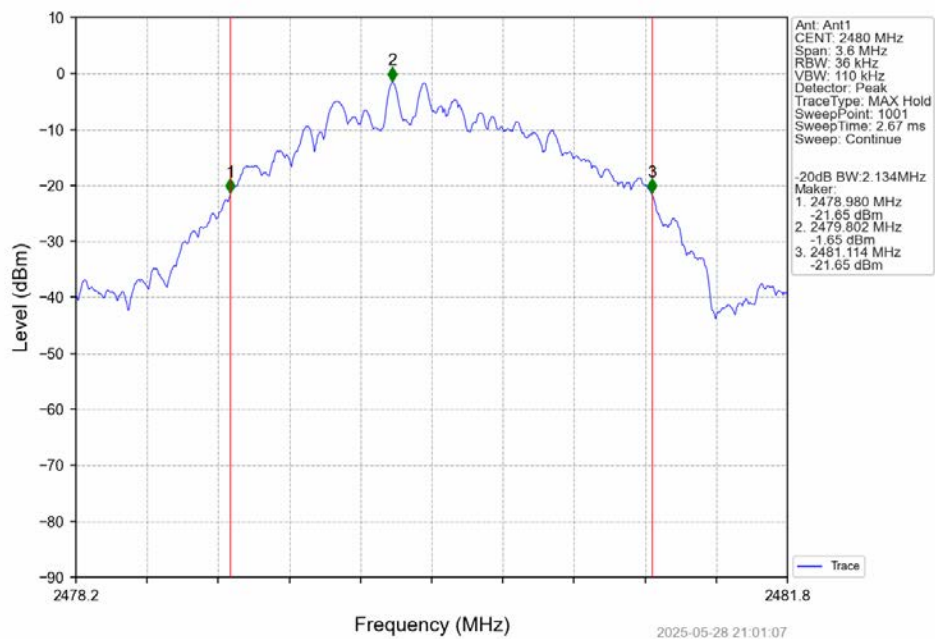




Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

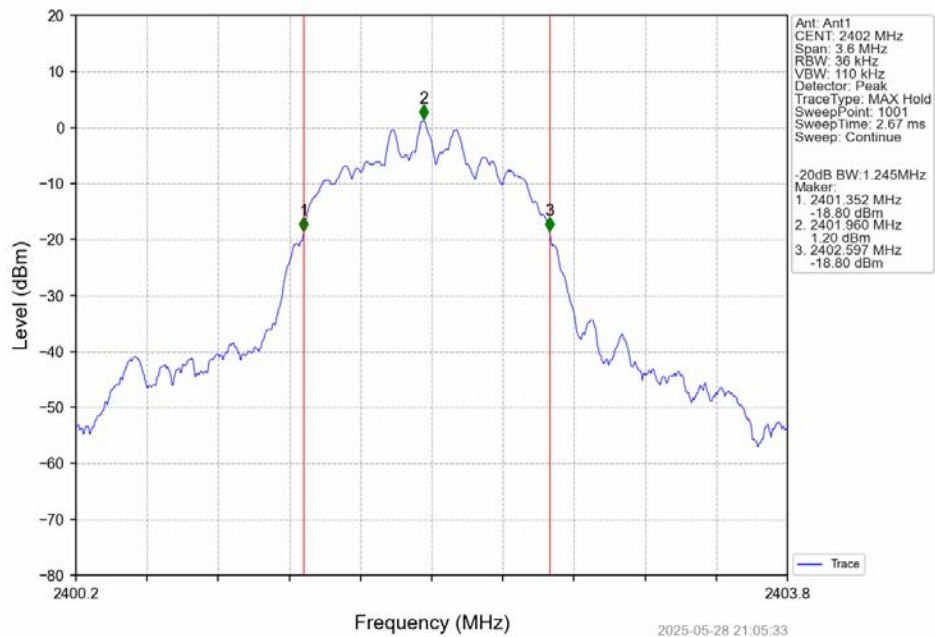


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

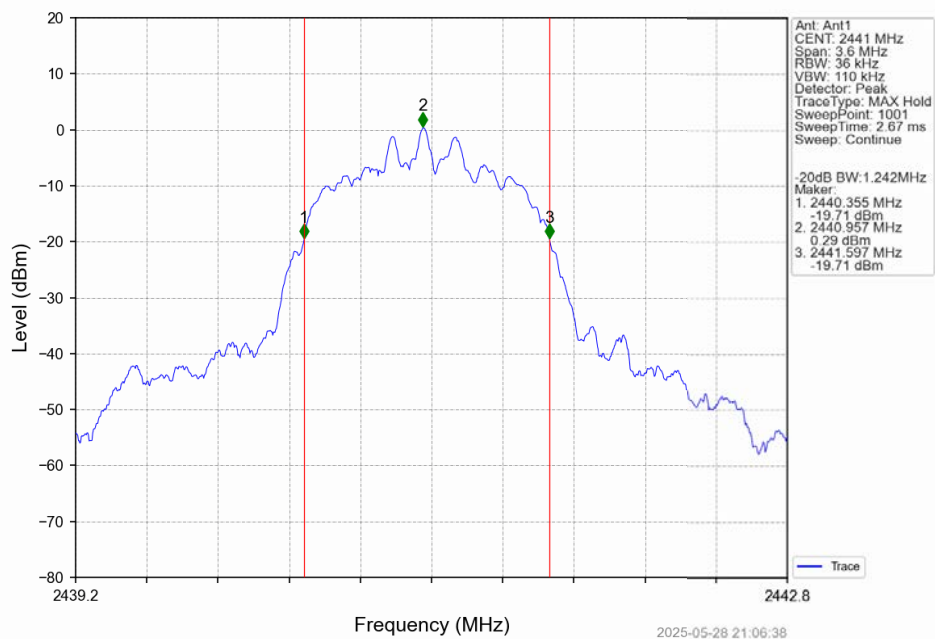




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

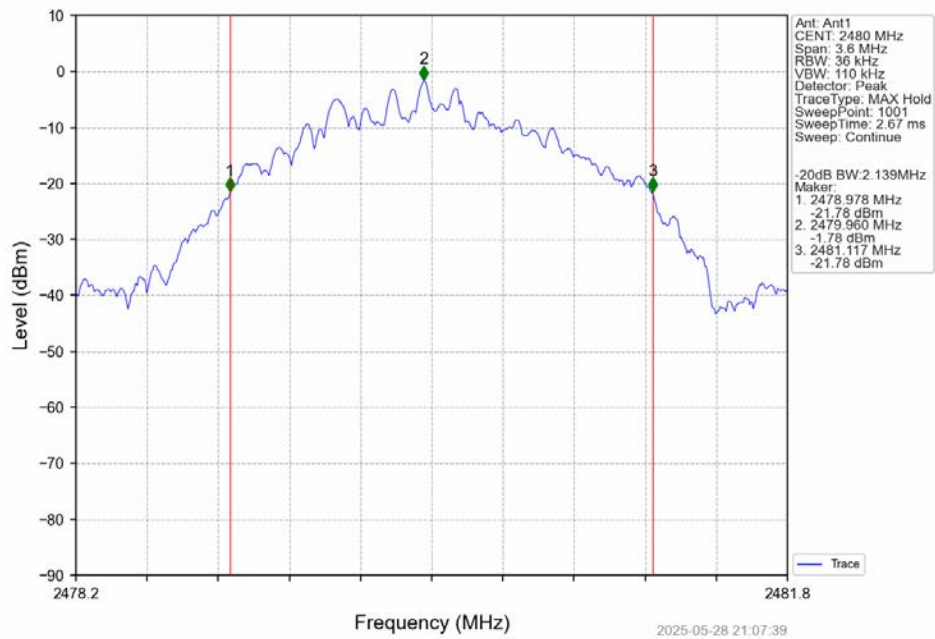


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV





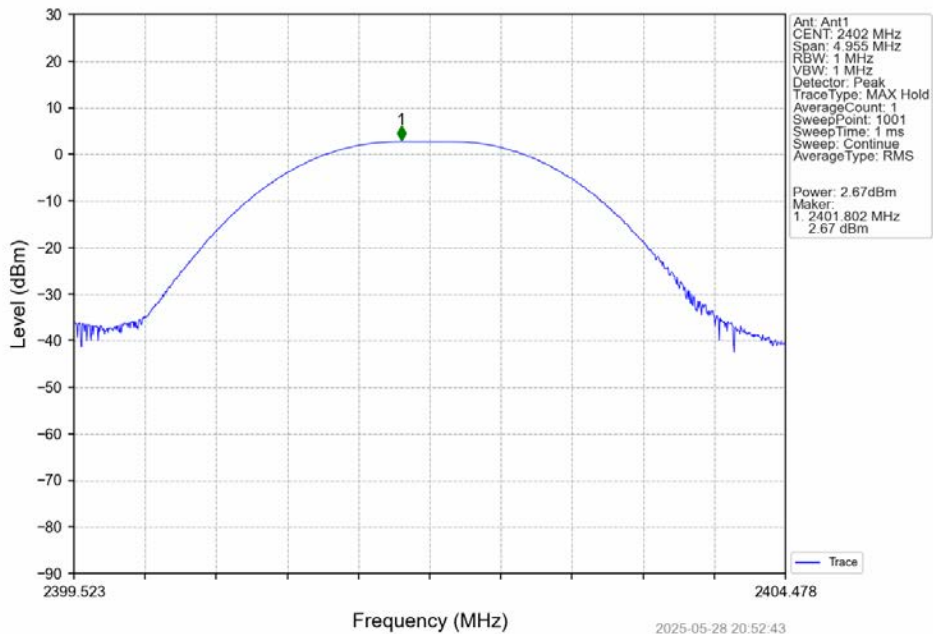
A.2 Maximum Peak Conducted Output Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	2.67	≤ 30	Pass
		2441	DH5	1.69	≤ 20.97	Pass
		2480	DH5	0.81	≤ 20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	3.27	≤ 20.97	Pass
		2441	2DH5	2.37	≤ 20.97	Pass
		2480	2DH5	0.82	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	3.61	≤ 20.97	Pass
		2441	3DH5	2.64	≤ 20.97	Pass
		2480	3DH5	1.07	≤ 20.97	Pass

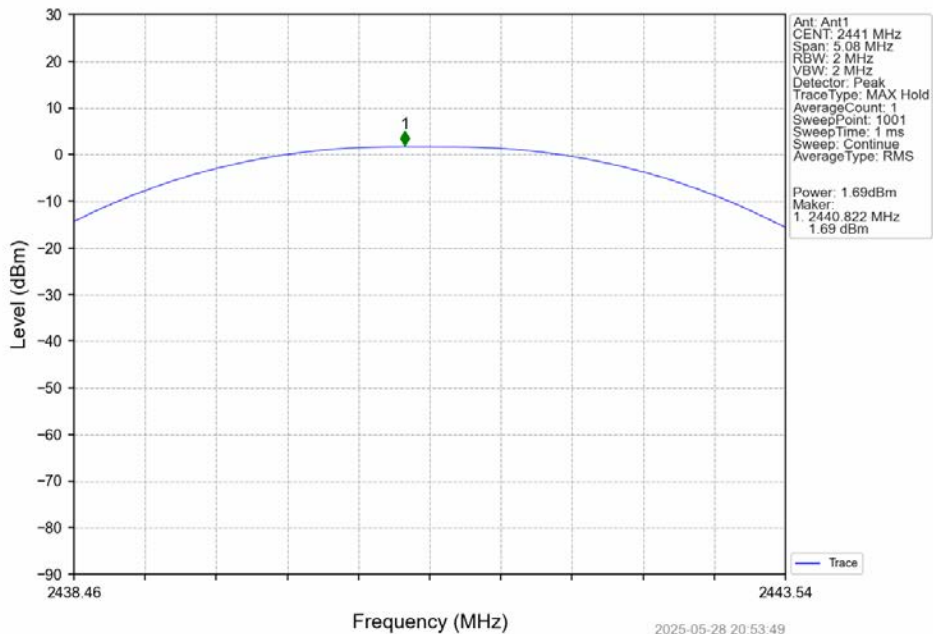




GFSK_DH5_LCH_2402MHz_Ant1_NTNV

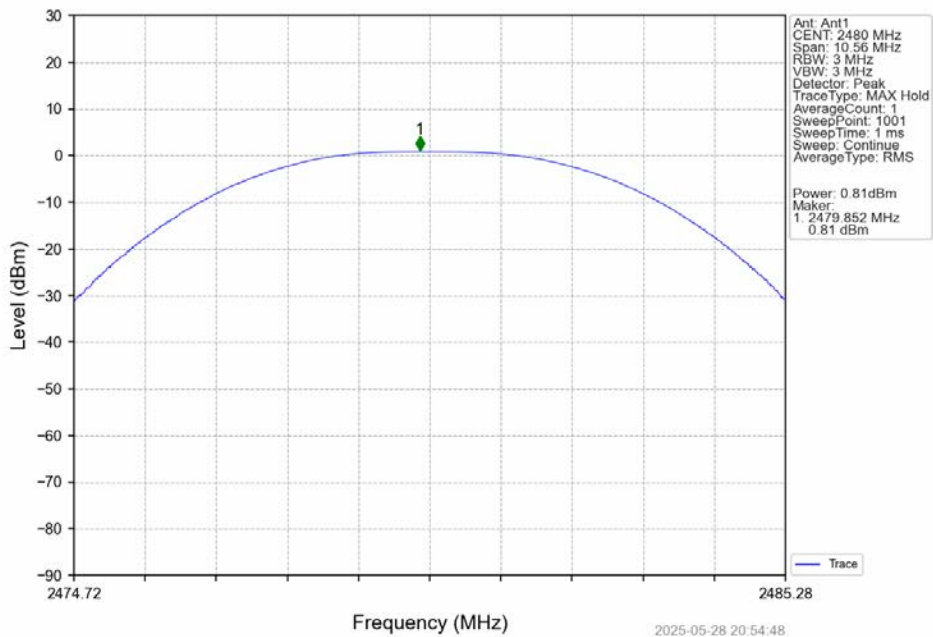


GFSK_DH5_MCH_2441MHz_Ant1_NTNV

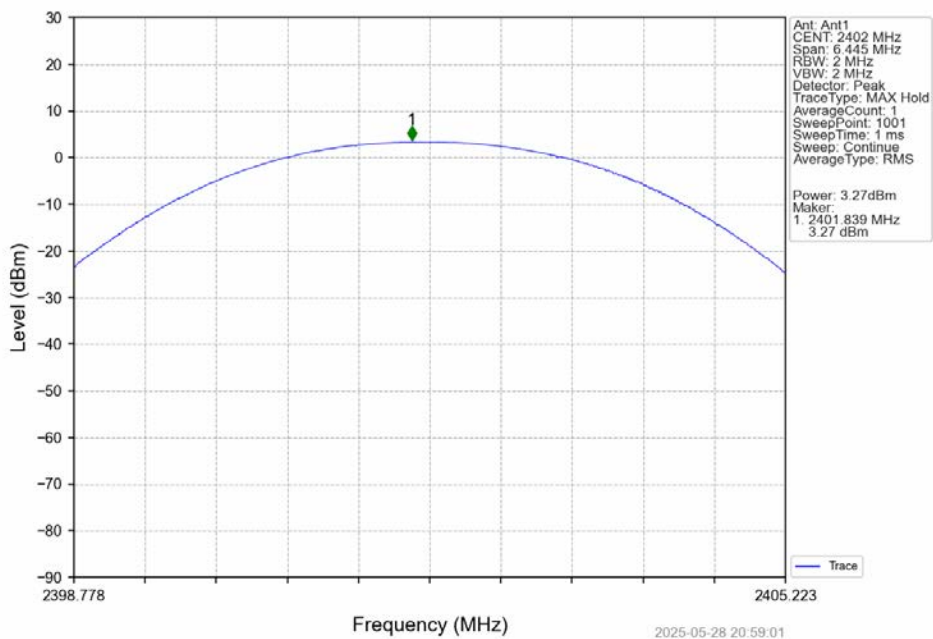




GFSK_DH5_HCH_2480MHz_Ant1_NTNV

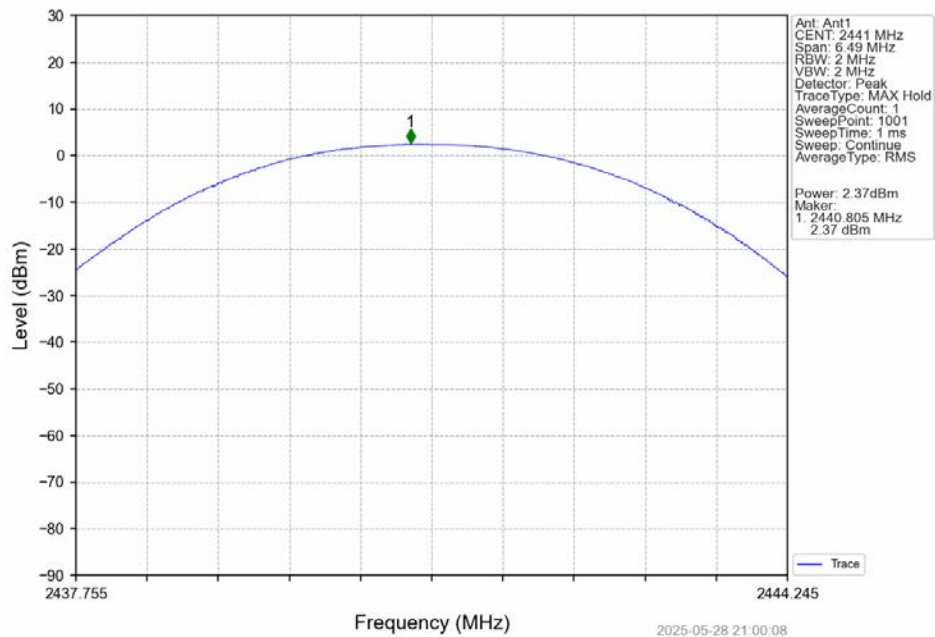


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

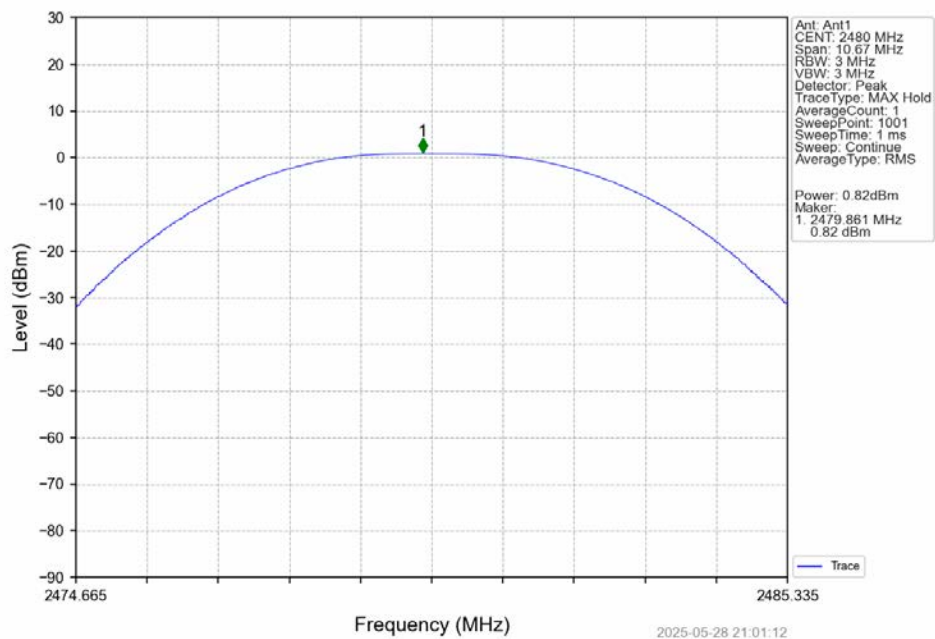




Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

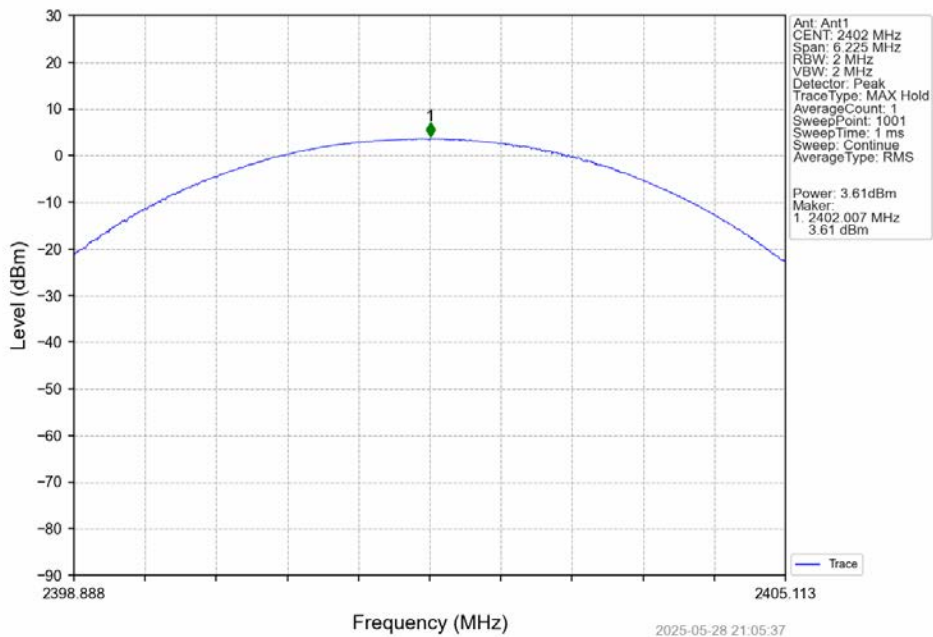


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

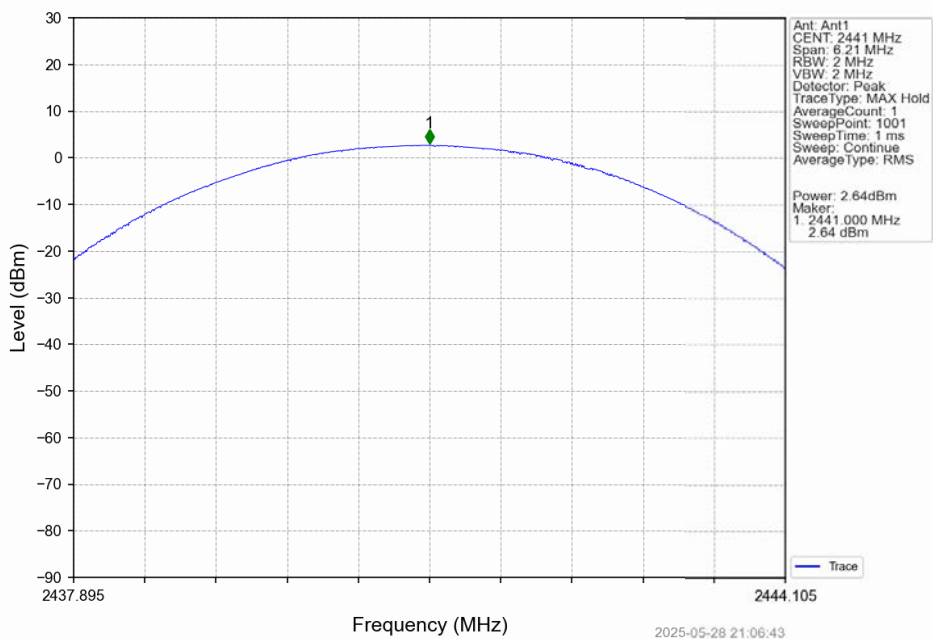




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

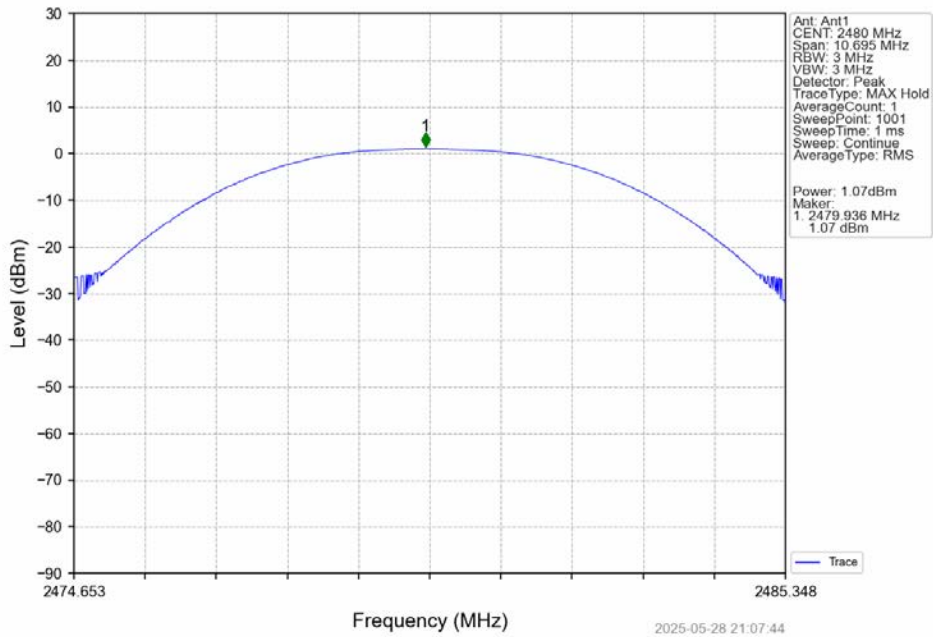


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





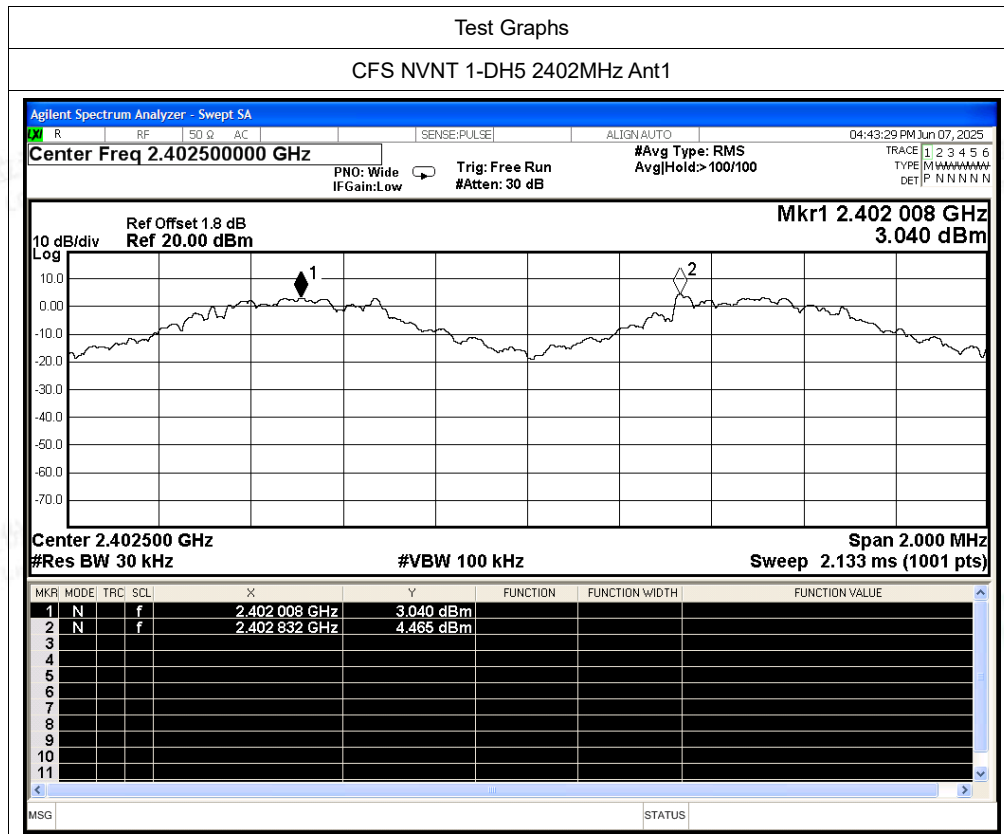
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV





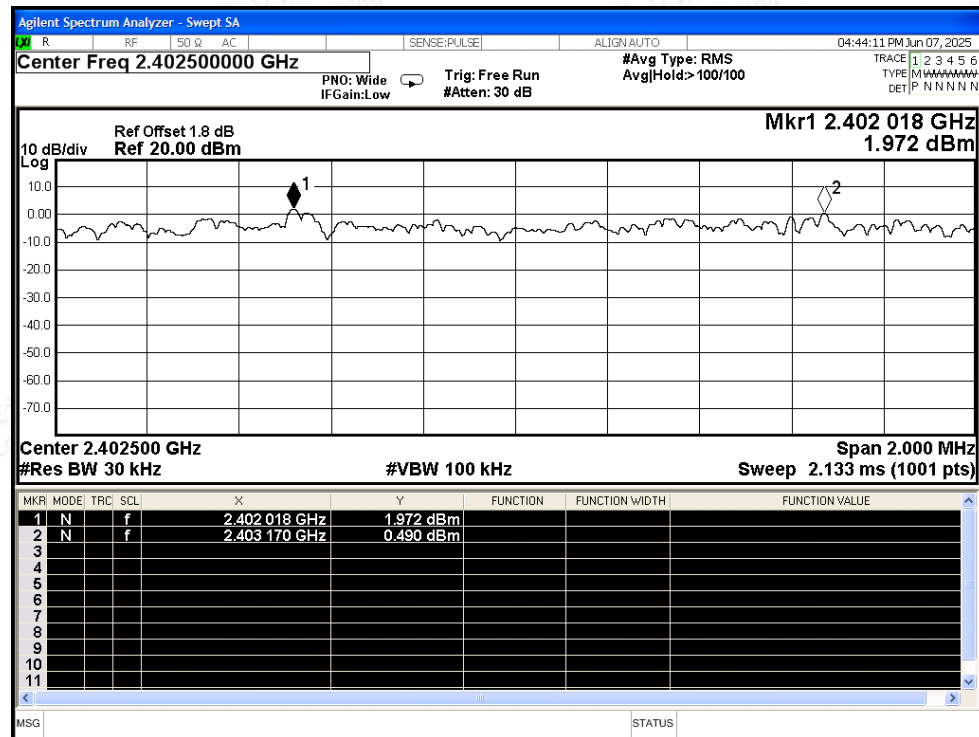
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.008	2402.832	0.824	0.687	Pass
NVNT	2-DH5	Ant1	2402.018	2403.17	1.152	0.853	Pass
NVNT	3-DH5	Ant1	2402.026	2403.02	0.994	0.866	Pass

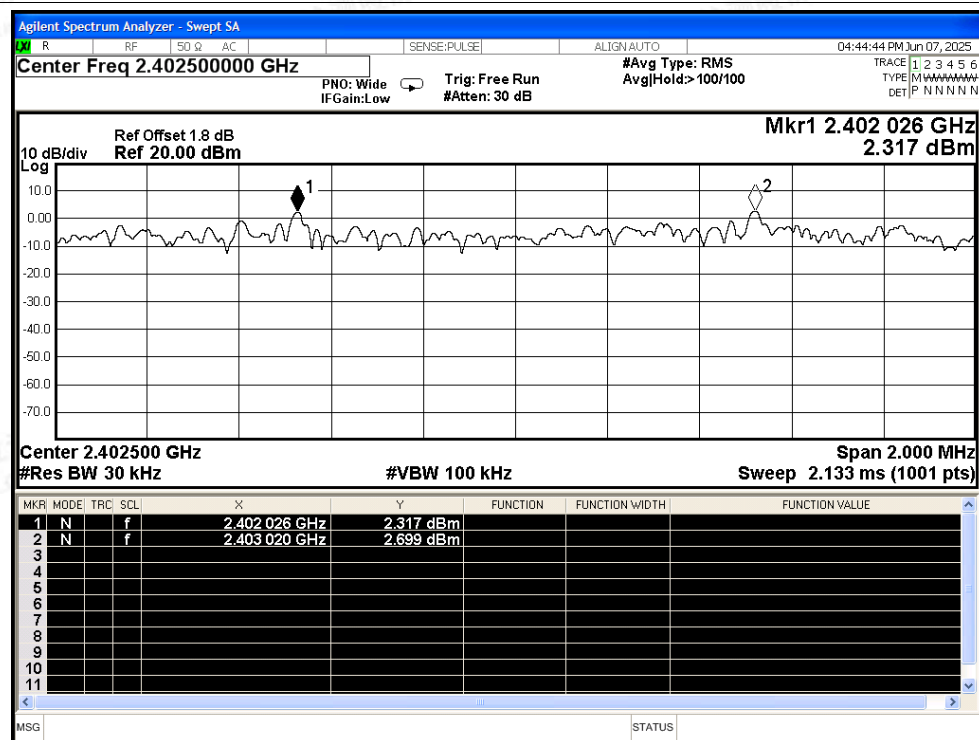




CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1





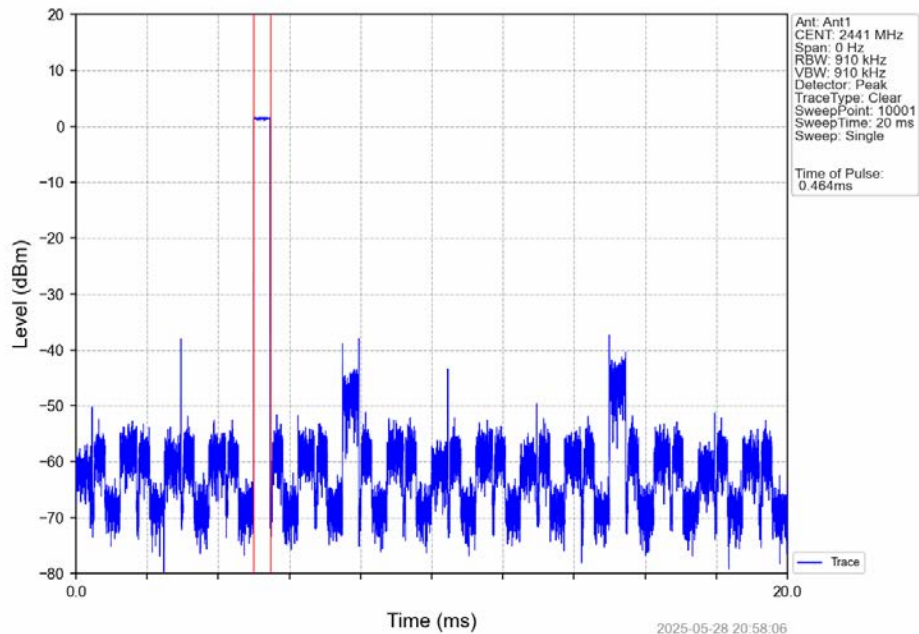
A.4 Dwell Time

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	DH5	0.464	31.600	320	148.480	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.464	31.600	320	148.480	<=400	Pass
8DPSK	SISO	HOPP	3DH5	0.462	31.600	320	147.840	<=400	Pass

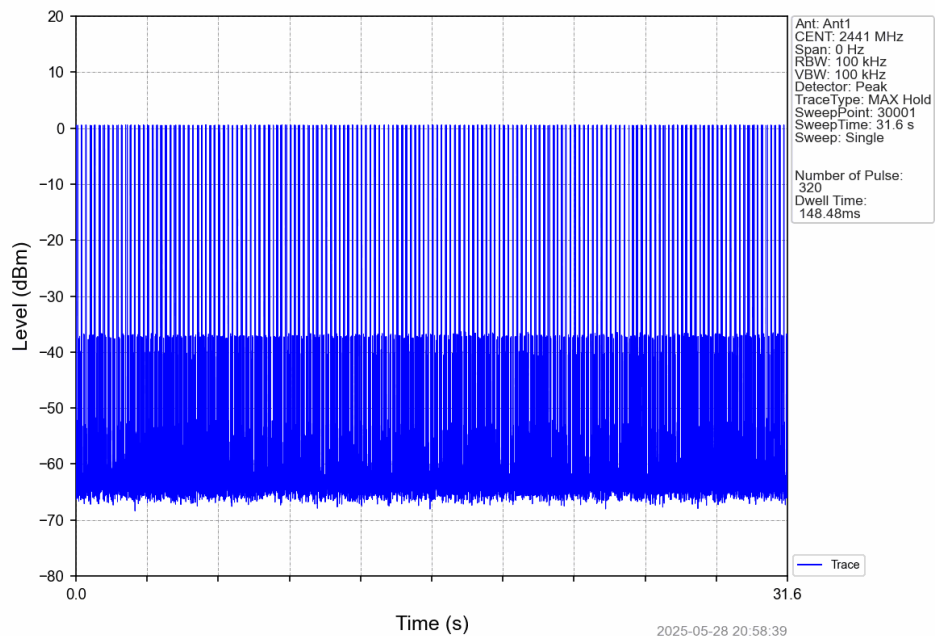




GFSK_DH5_HOPP_Ant1_NTNV

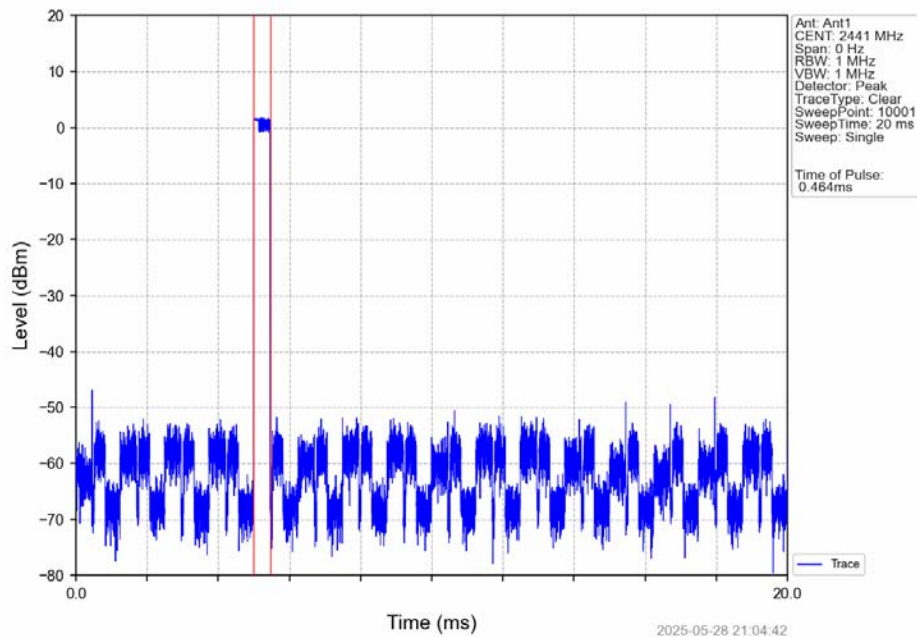


GFSK_DH5_HOPP_Ant1_NTNV

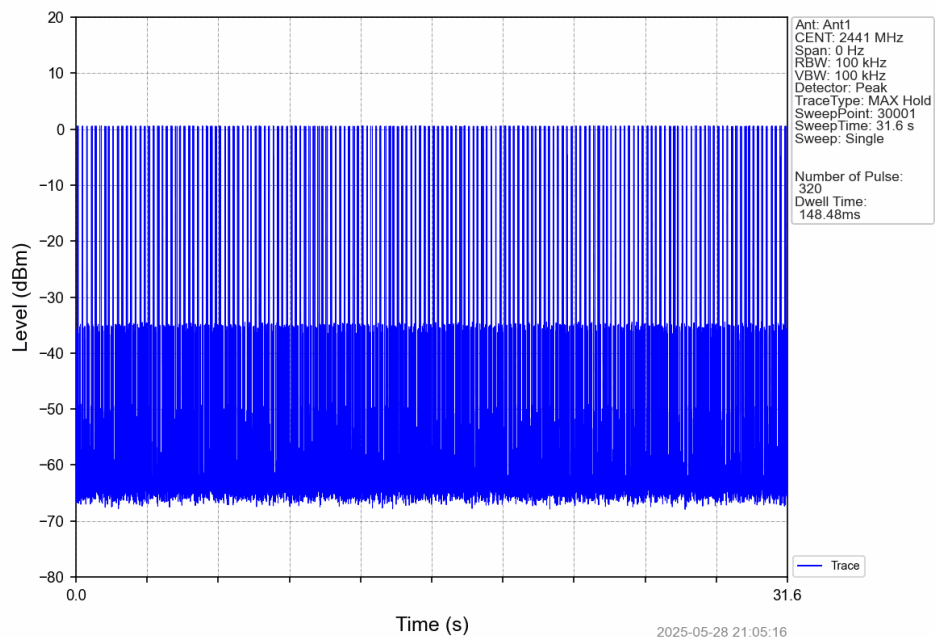




Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

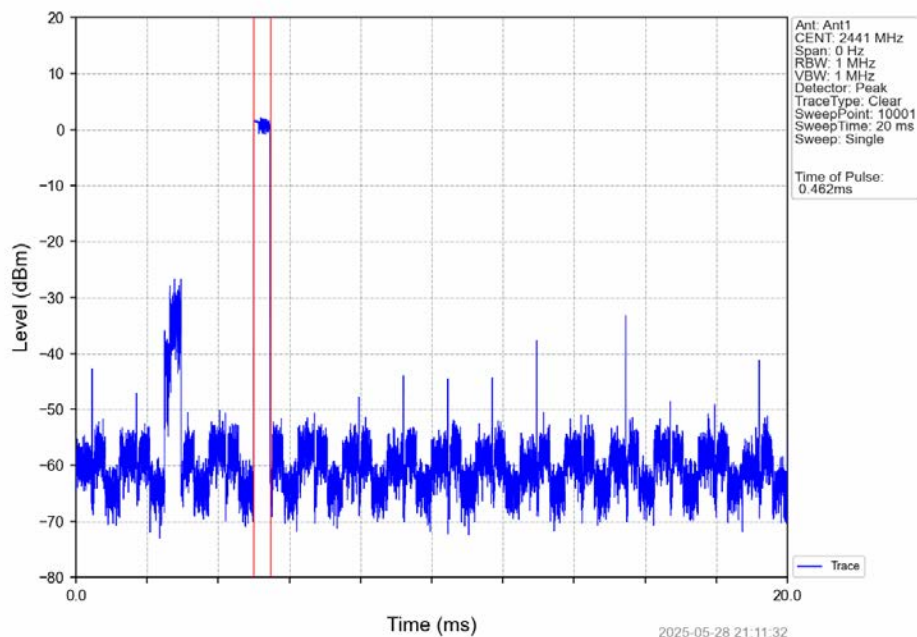


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

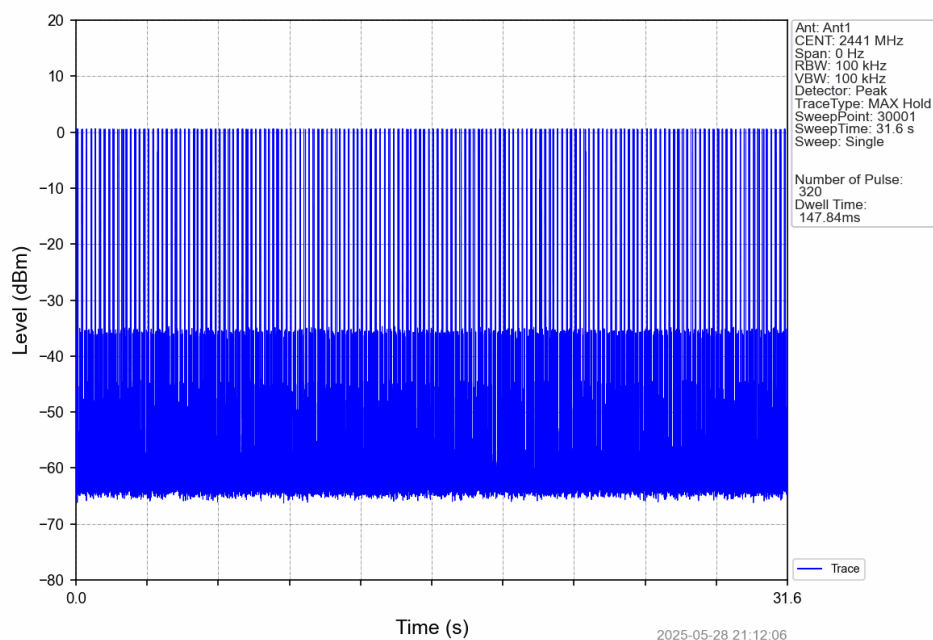




8DPSK_3DH5_HOPP_Ant1_NTNV



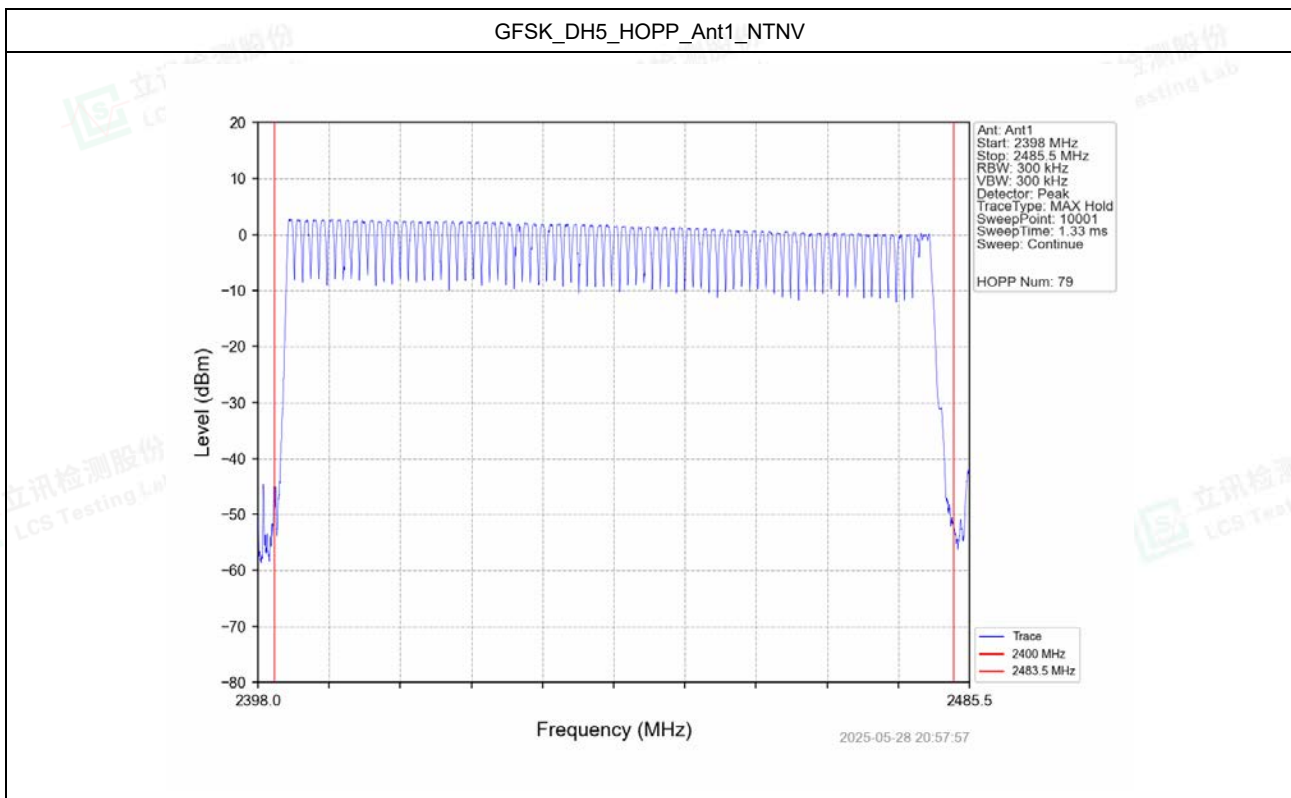
8DPSK_3DH5_HOPP_Ant1_NTNV





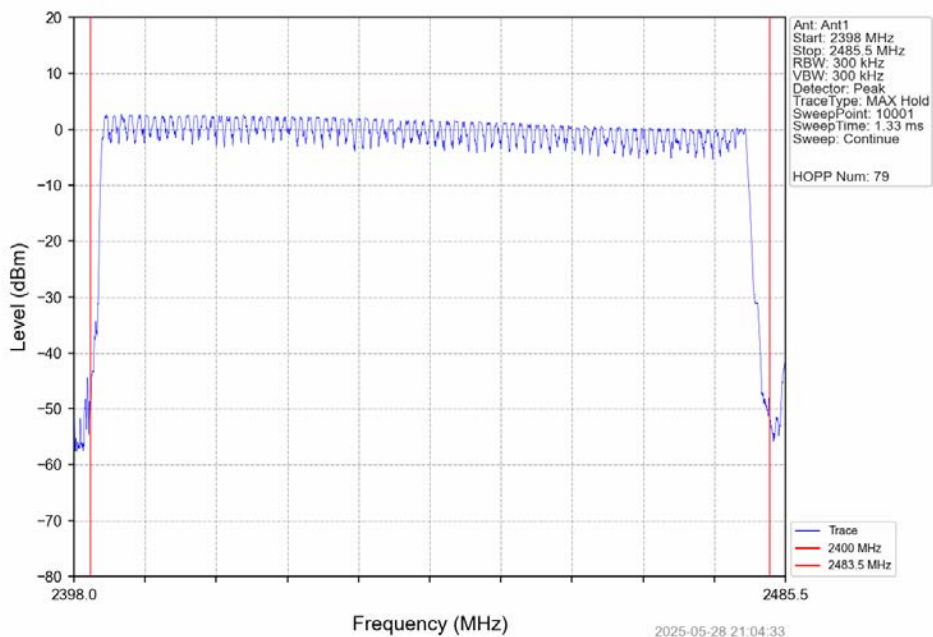
A.5 Number of Hopping Channel

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

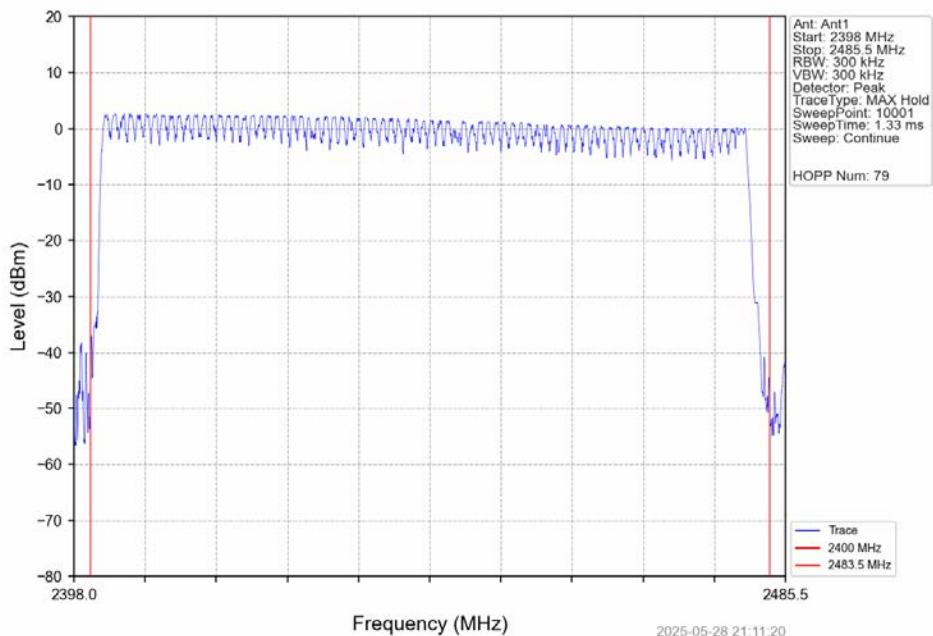




Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





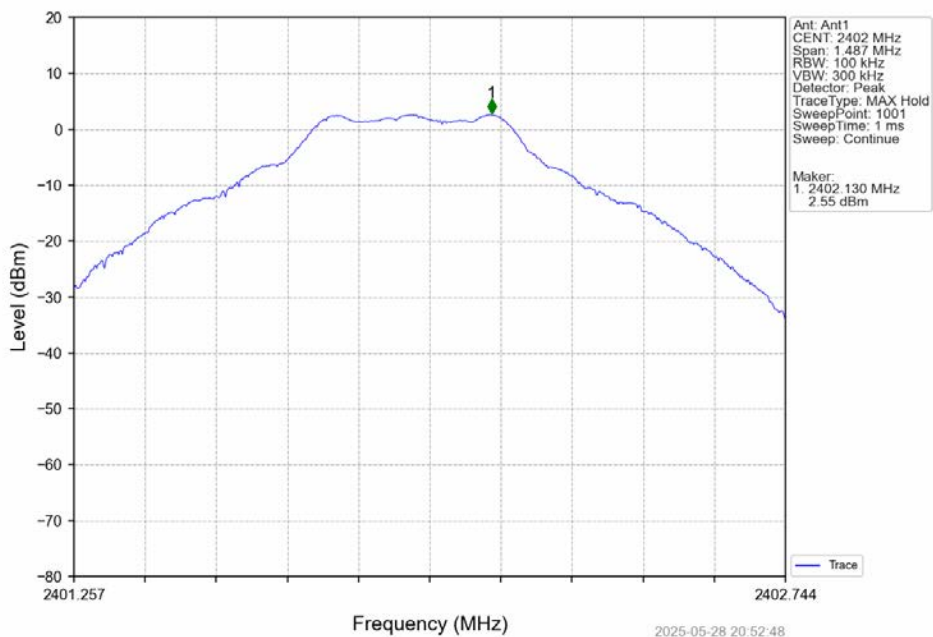
A.6 Band Edge

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	2.55
		2441	DH5	1	1.53
		2480	DH5	1	0.02
		HOPP	DH5	1	2.38
					2.38
Pi/4DQPSK	SISO	2402	2DH5	1	2.51
		2441	2DH5	1	1.59
		2480	2DH5	1	0.01
		HOPP	2DH5	1	2.54
					2.54
8DPSK	SISO	2402	3DH5	1	2.47
		2441	3DH5	1	1.54
		2480	3DH5	1	0.01
		HOPP	3DH5	1	2.45
					2.45
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.					

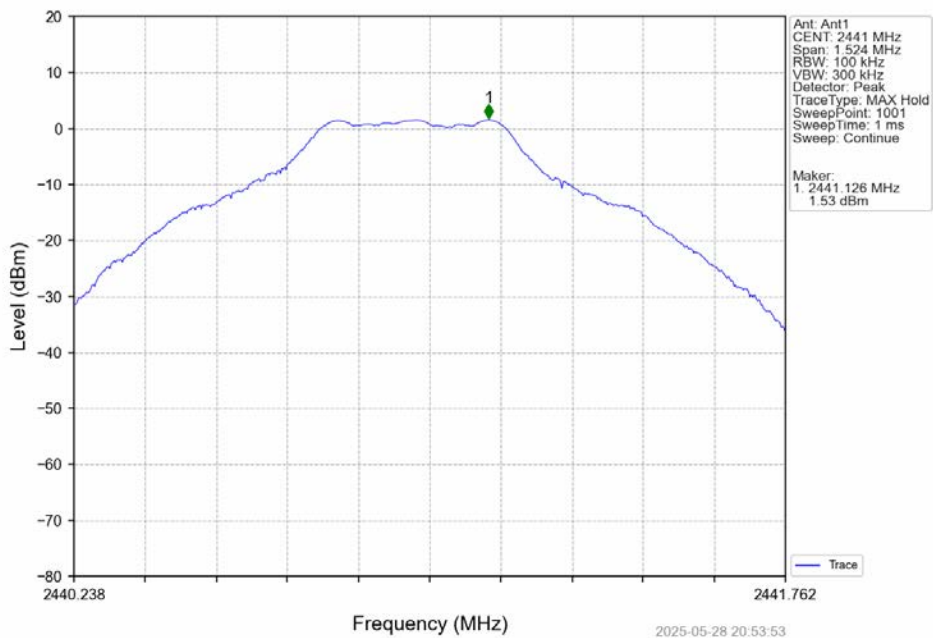




GFSK_DH5_LCH_2402MHz_Ant1_NTNV

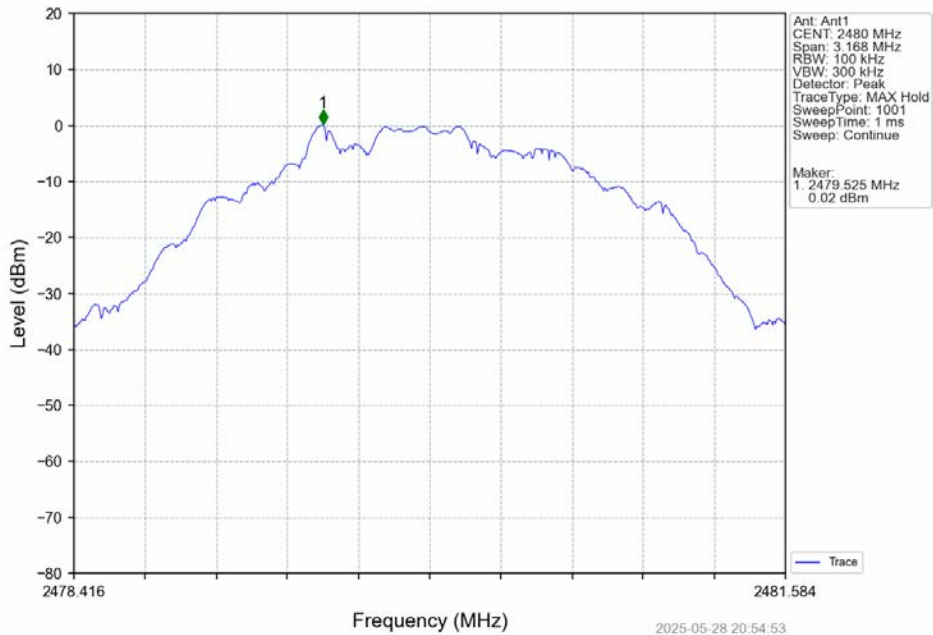


GFSK_DH5_MCH_2441MHz_Ant1_NTNV

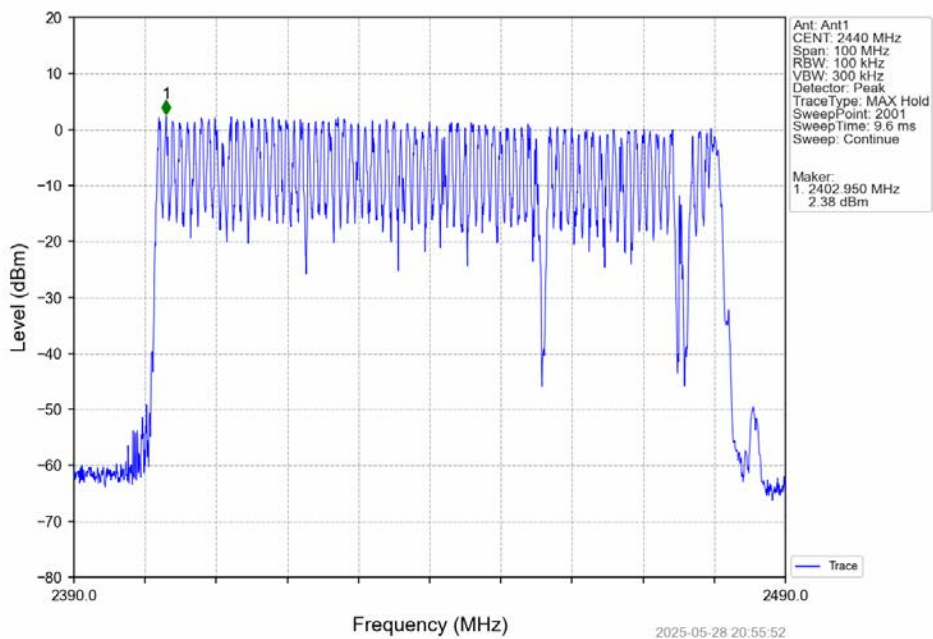




GFSK_DH5_HCH_2480MHz_Ant1_NTNV

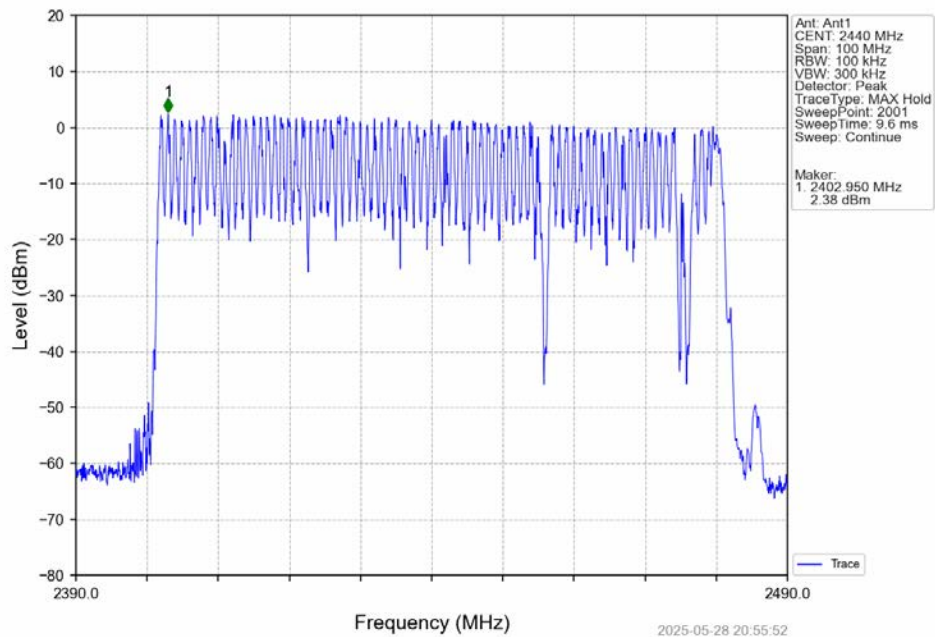


GFSK_DH5_HOPP_Ant1_NTNV

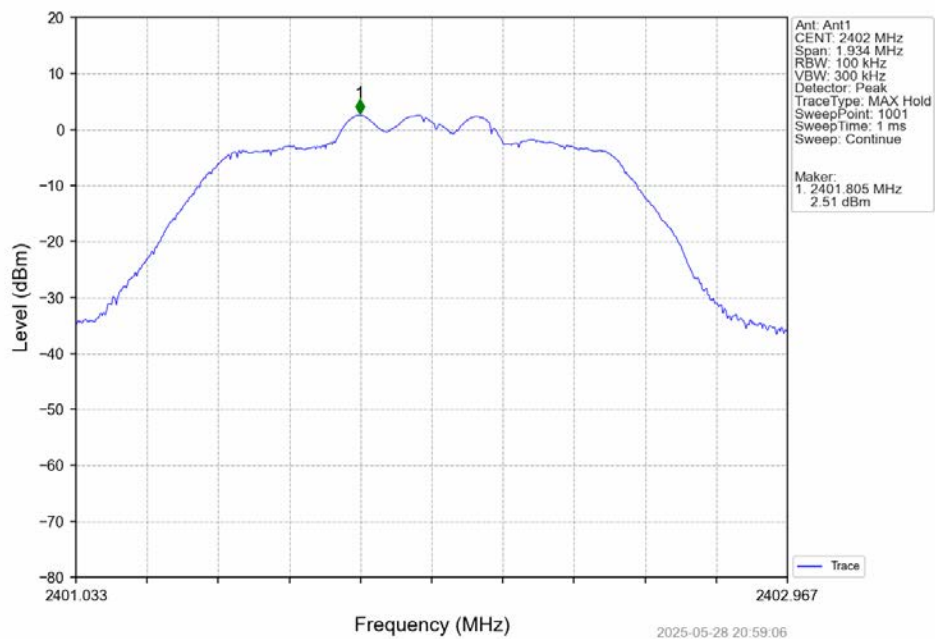




GFSK_DH5_HOPP_Ant1_NTNV

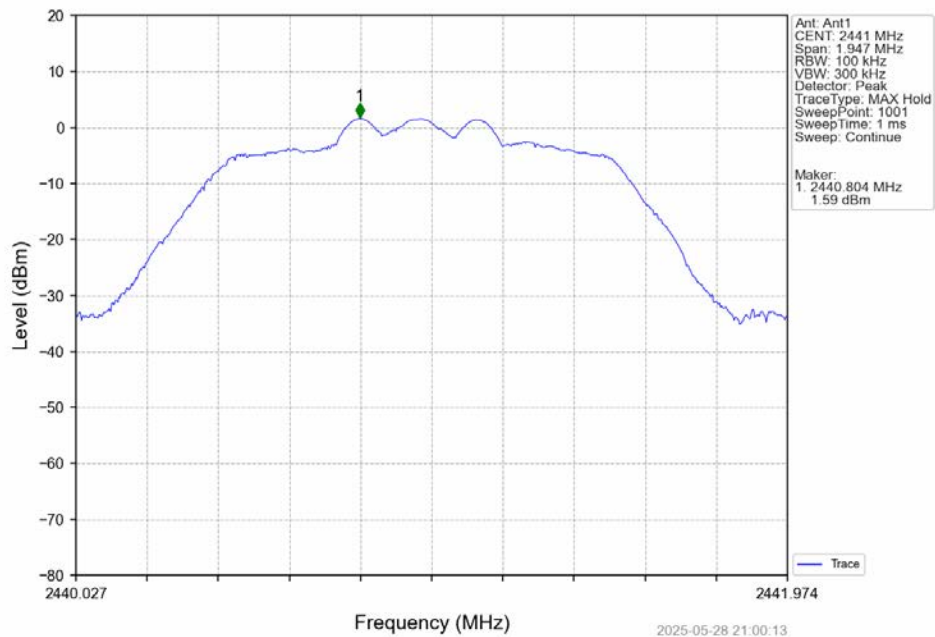


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

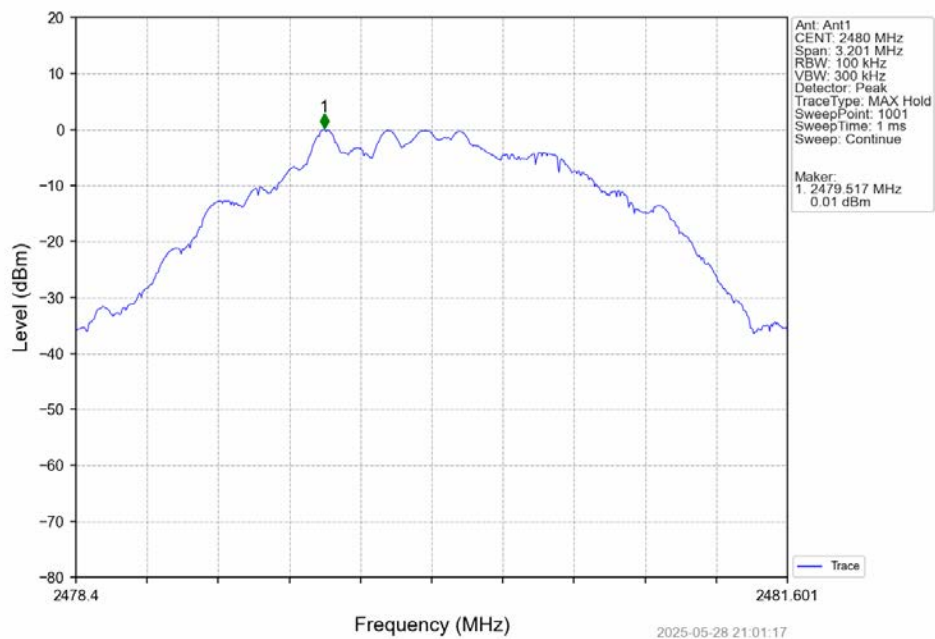




Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

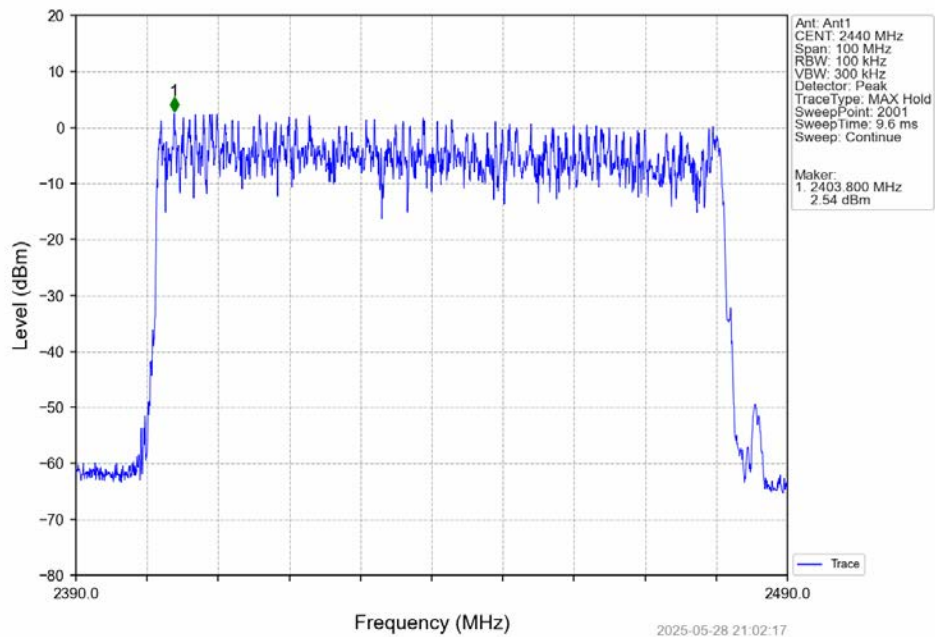


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

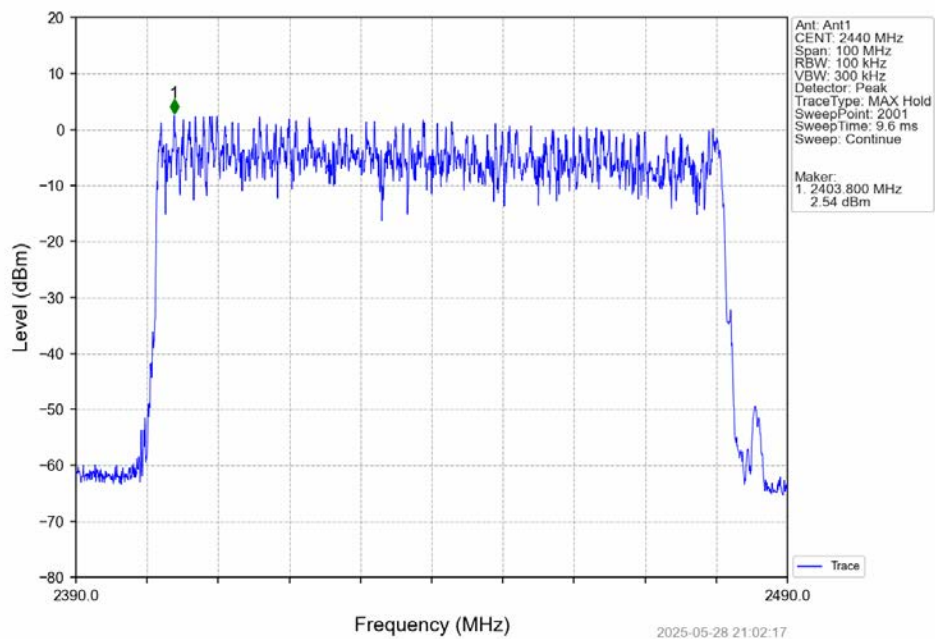




Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

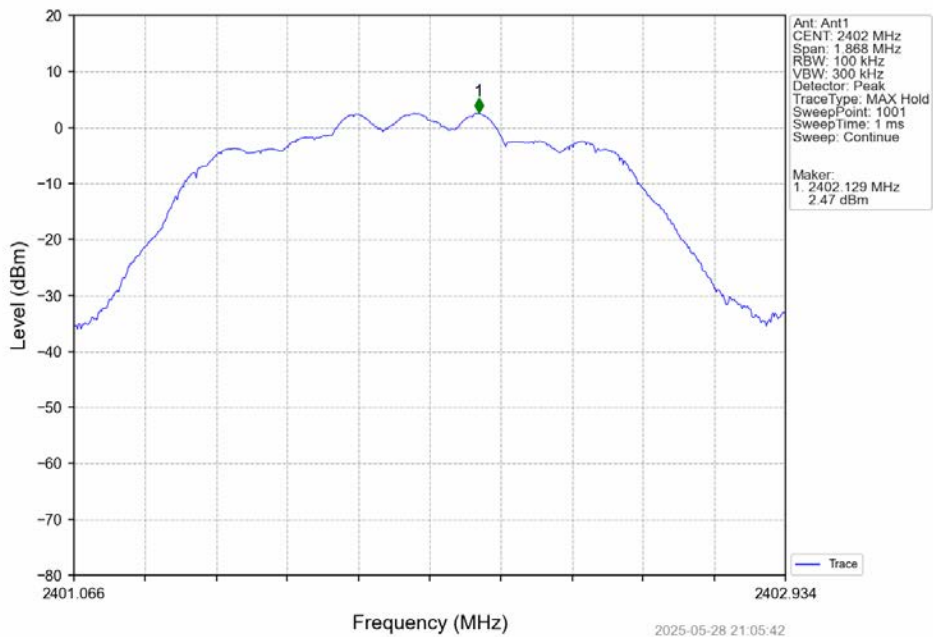


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

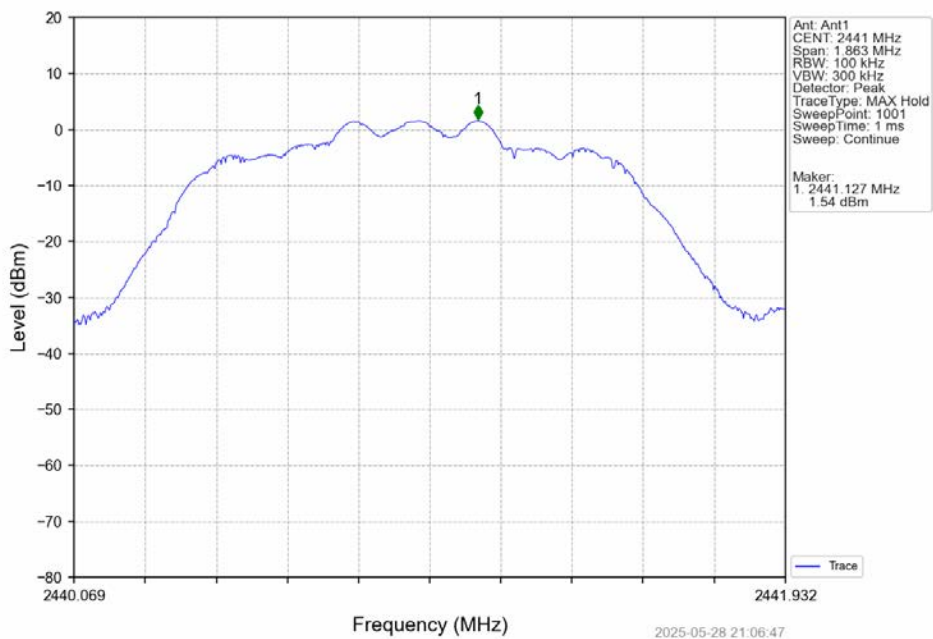




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

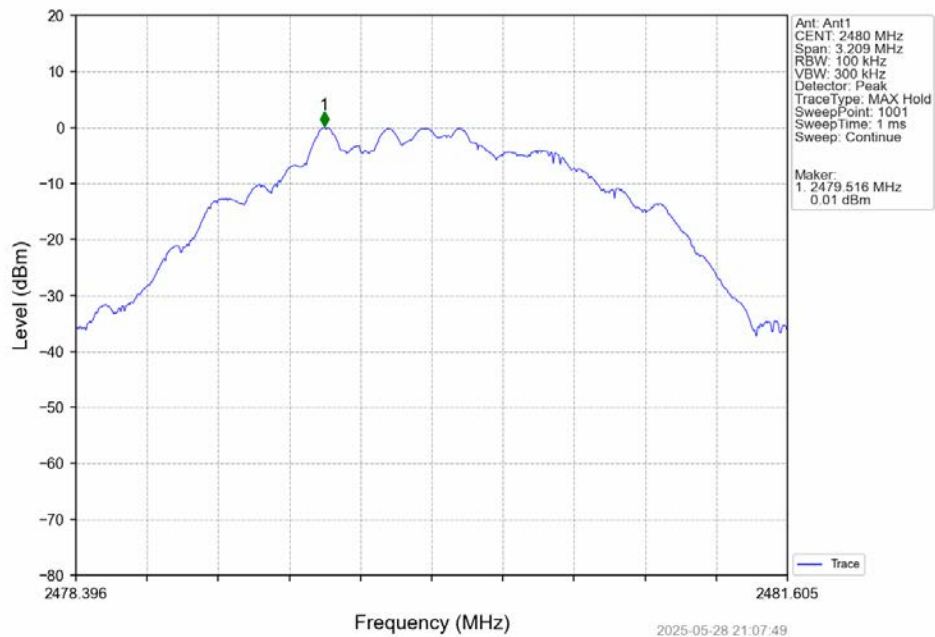


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

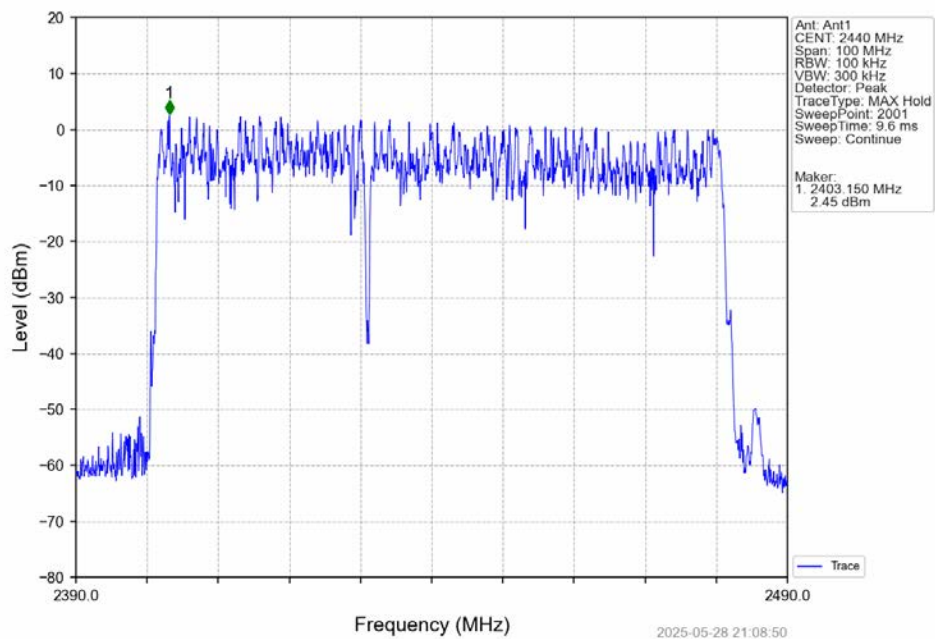




8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

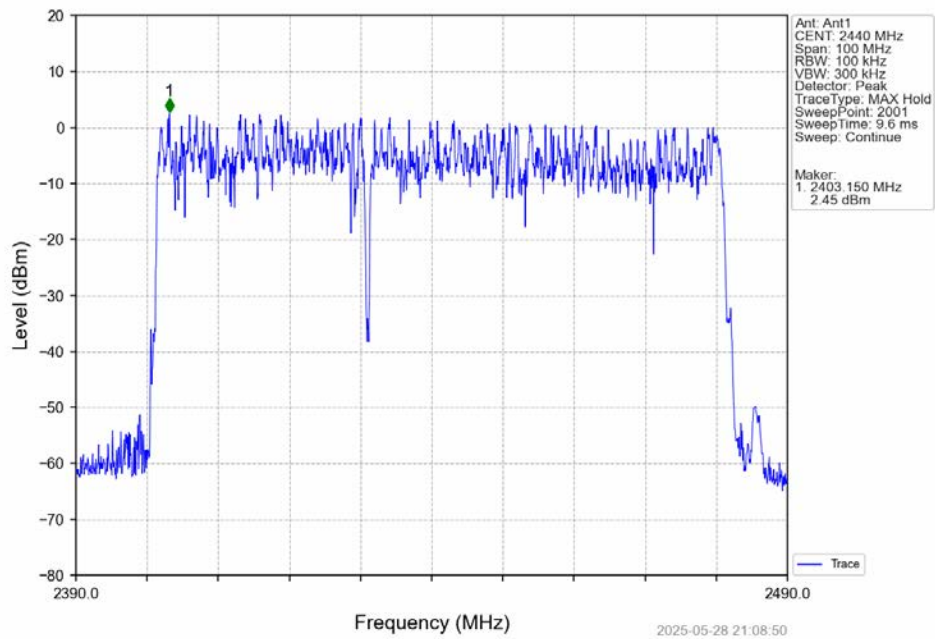


8DPSK_3DH5_HOPP_Ant1_NTNV



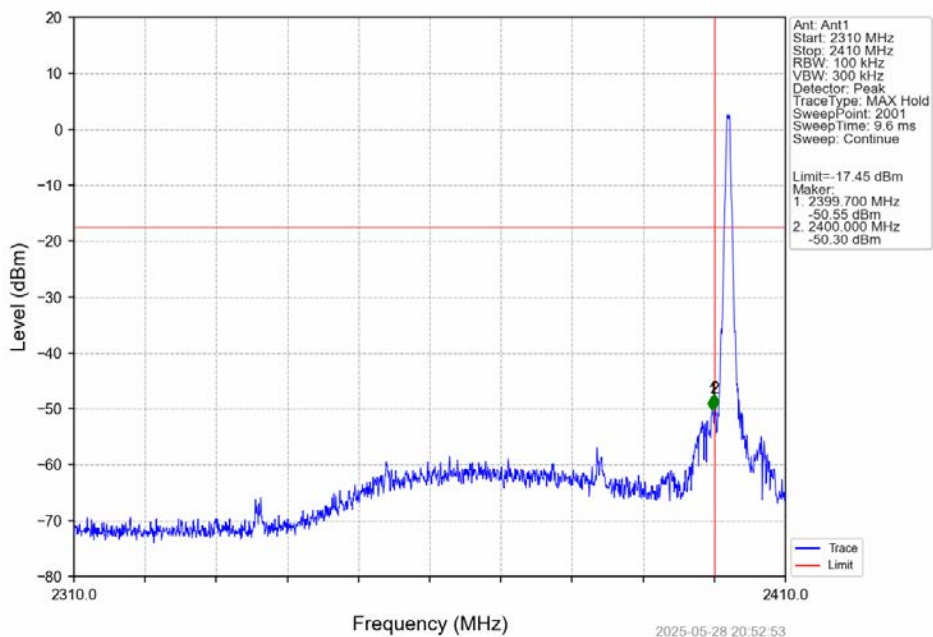


8DPSK_3DH5_HOPP_Ant1_NTNV

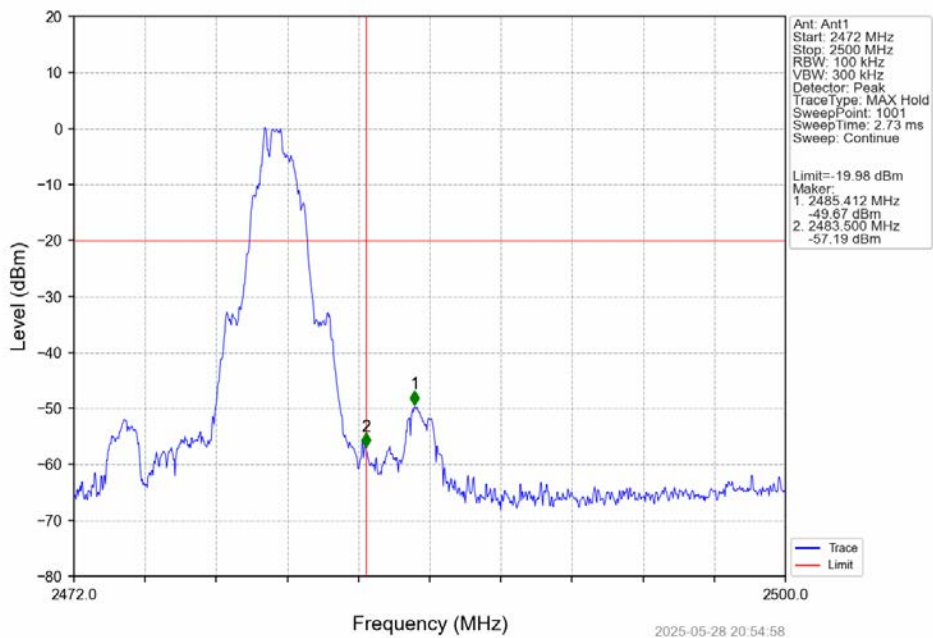




GFSK_DH5_LCH_2402MHz_Ant1_NTNV

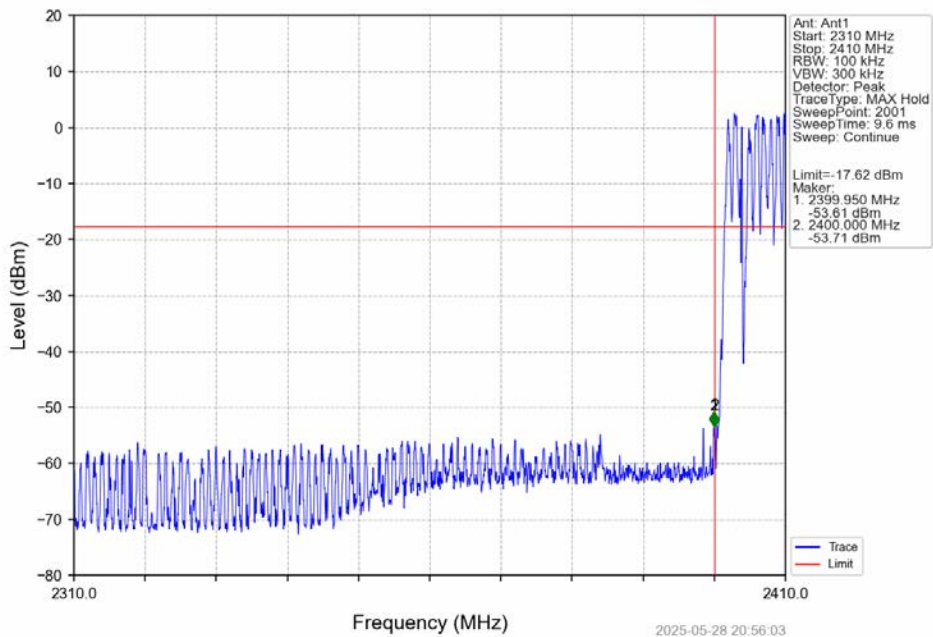


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

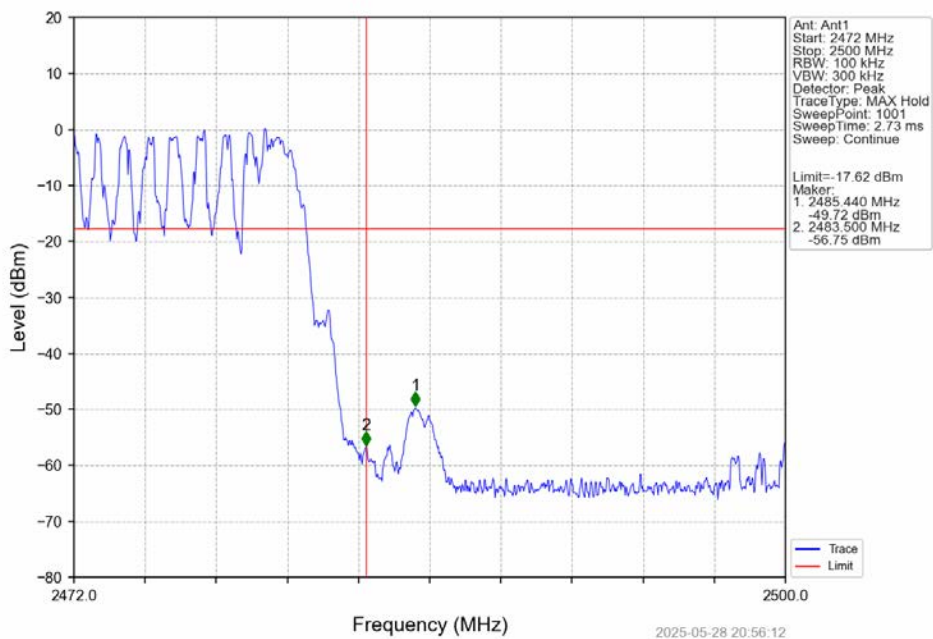




GFSK_DH5_HOPP_Ant1_NTNV

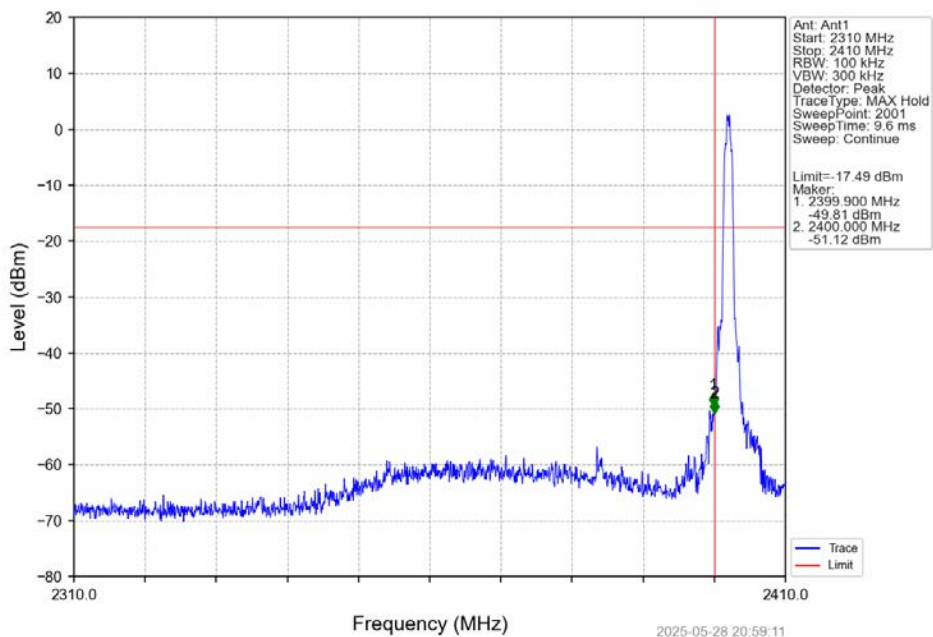


GFSK_DH5_HOPP_Ant1_NTNV

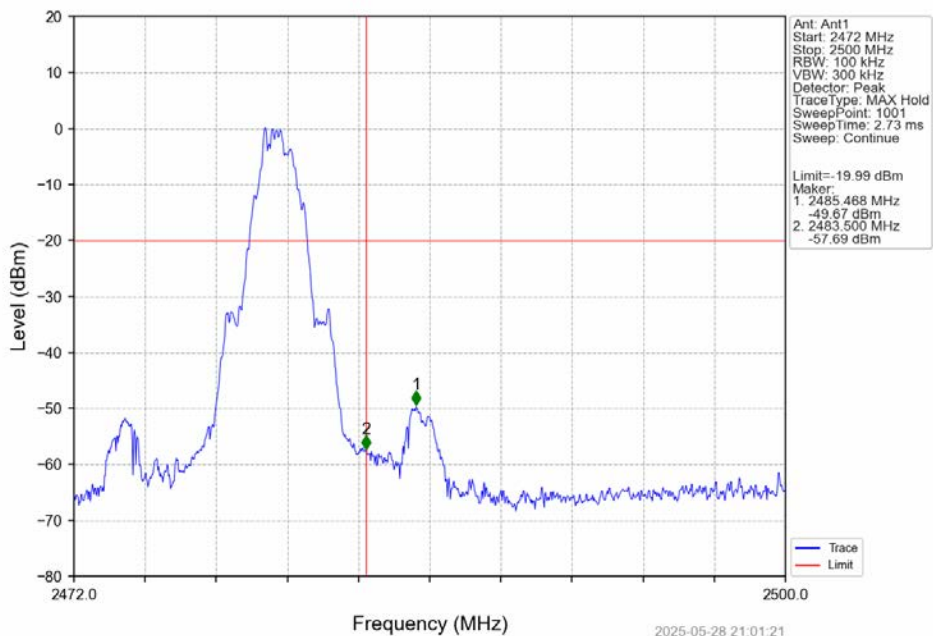




Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

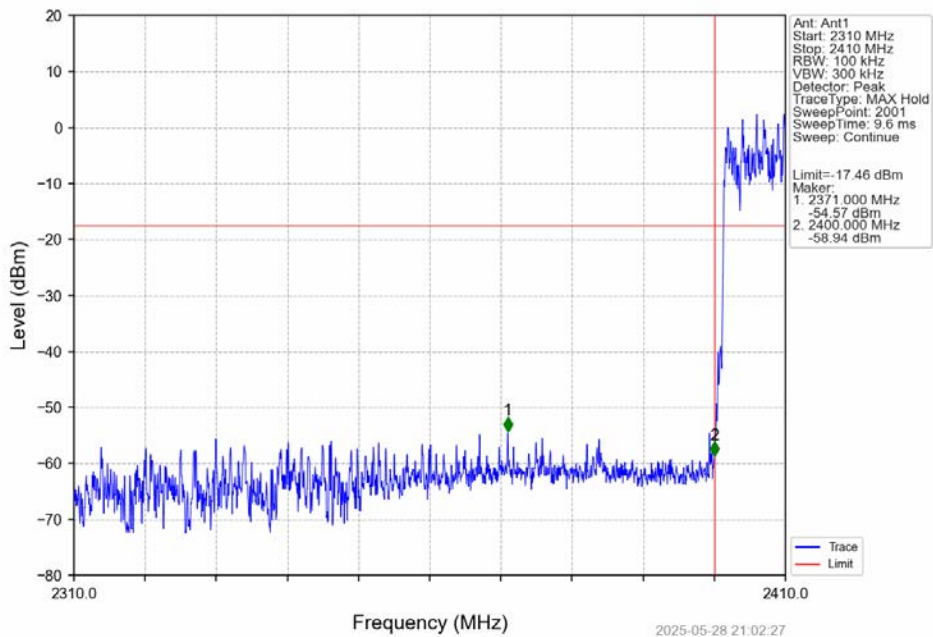


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

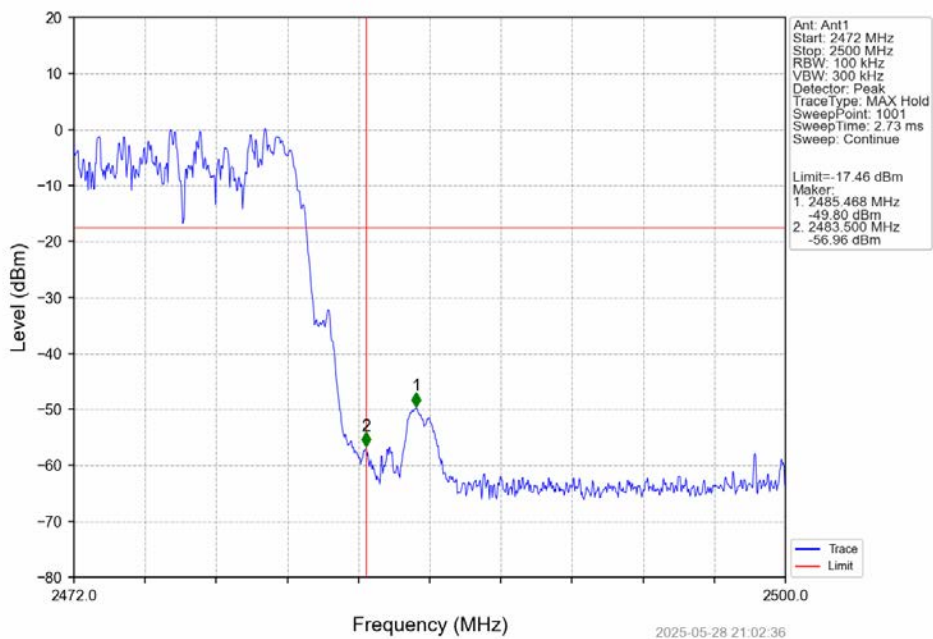




Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

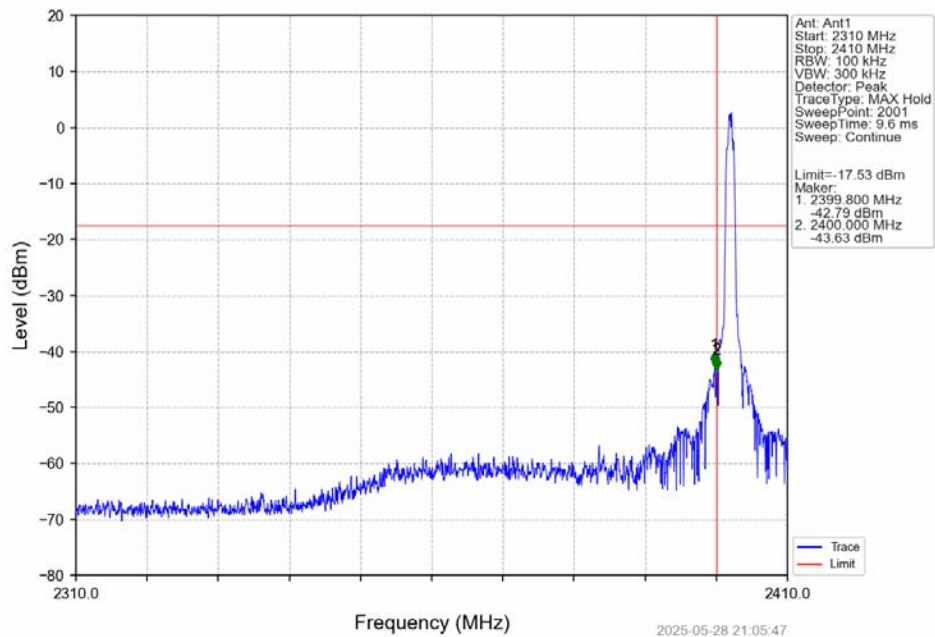


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

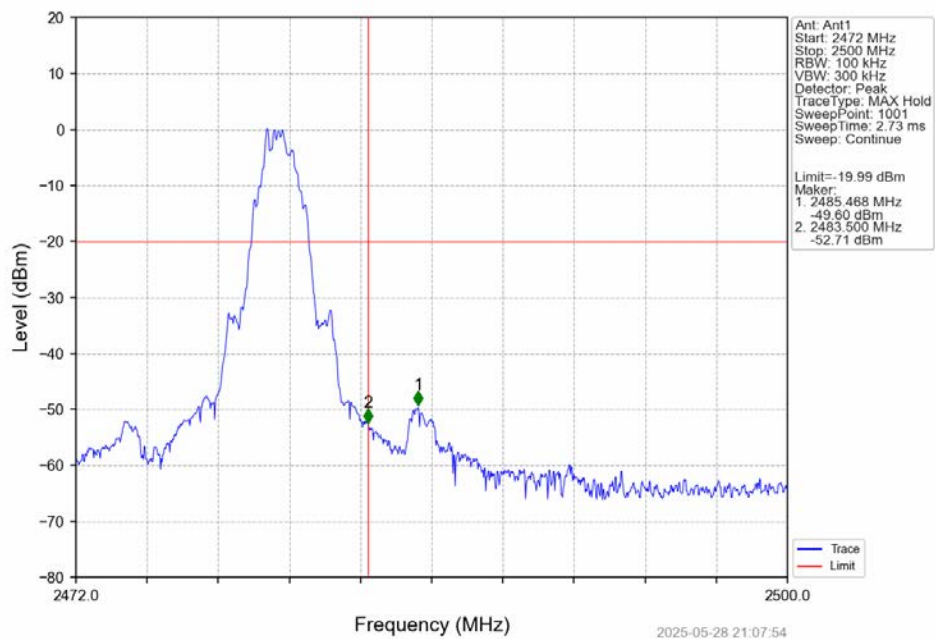




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

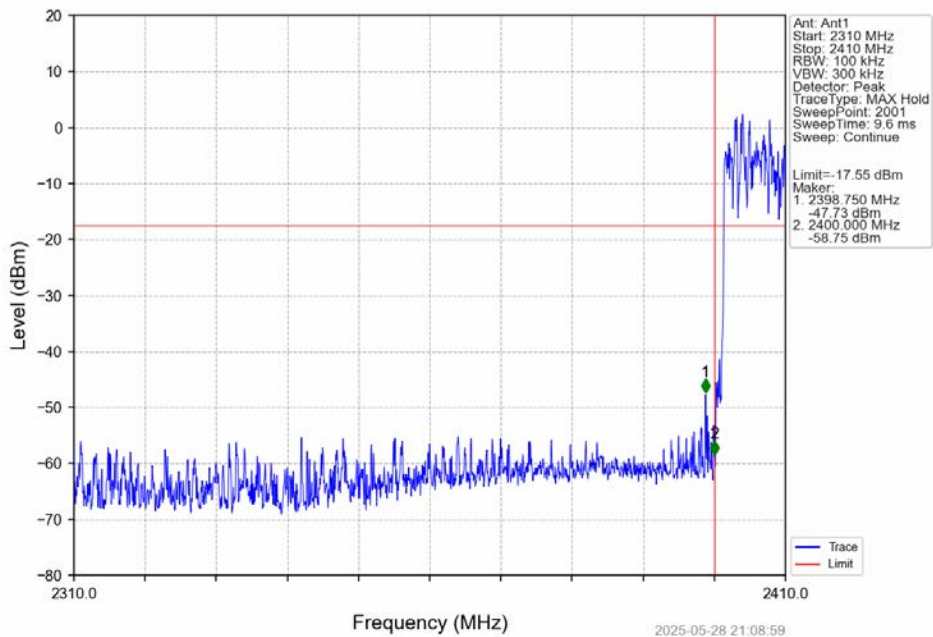


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

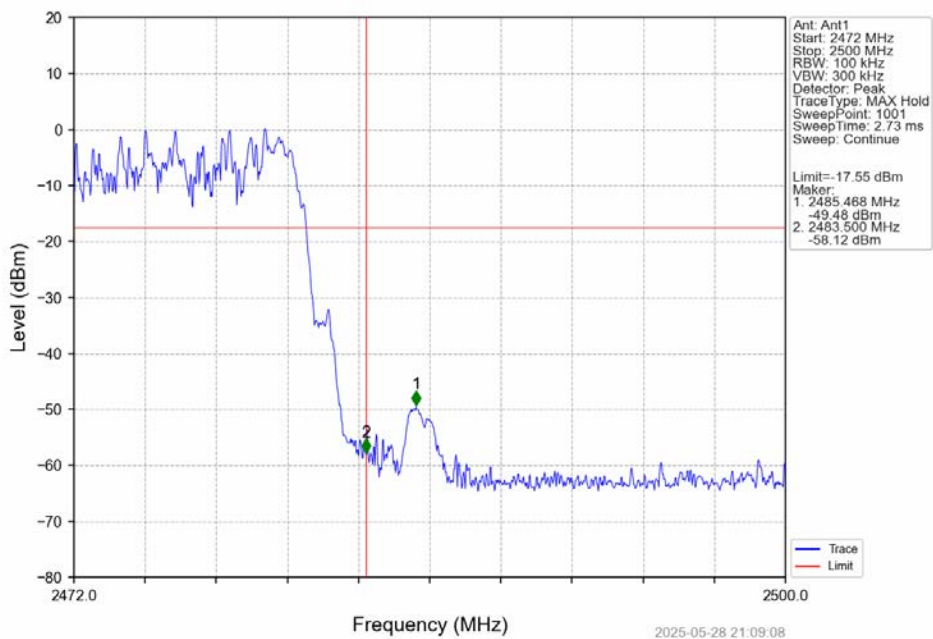




8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





A.7 Conducted RF Spurious Emission

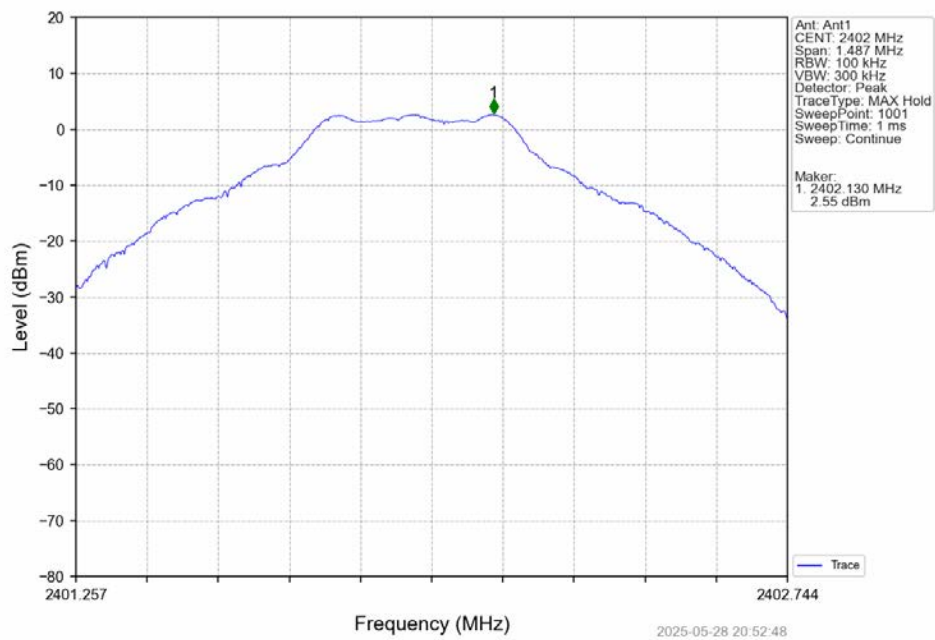
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	2.55	-17.45	Pass
		2441	DH5	1	1.53	-18.47	Pass
		2480	DH5	1	0.02	-19.98	Pass
		HOPP	DH5	1	2.38	-17.62	Pass
					2.38	-17.62	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	2.51	-17.49	Pass
		2441	2DH5	1	1.59	-18.41	Pass
		2480	2DH5	1	0.01	-19.99	Pass
		HOPP	2DH5	1	2.54	-17.46	Pass
					2.54	-17.46	Pass
8DPSK	SISO	2402	3DH5	1	2.47	-17.53	Pass
		2441	3DH5	1	1.54	-18.46	Pass
		2480	3DH5	1	0.01	-19.99	Pass
		HOPP	3DH5	1	2.45	-17.55	Pass
					2.45	-17.55	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.

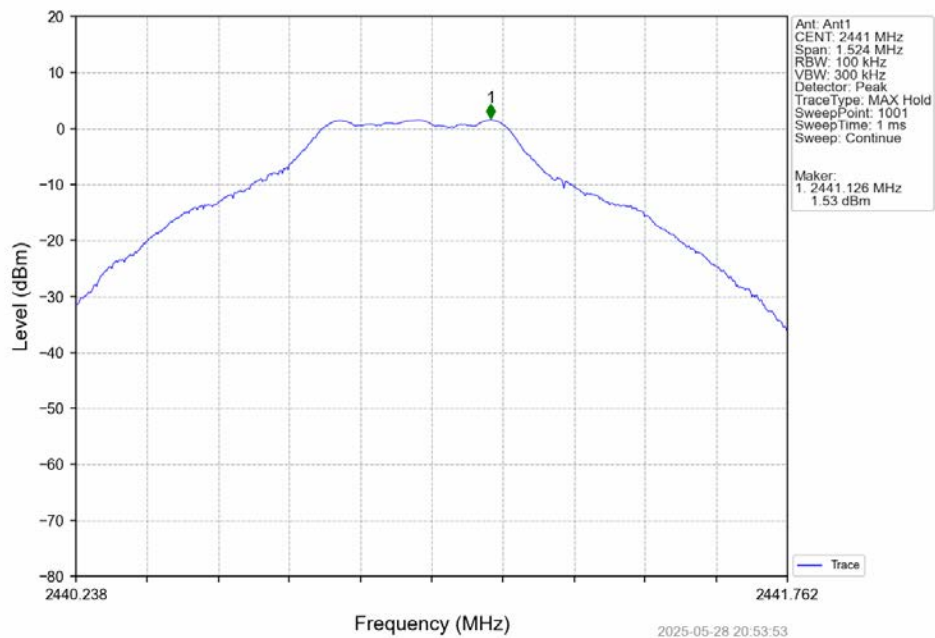




GFSK_DH5_LCH_2402MHz_Ant1_NTNV

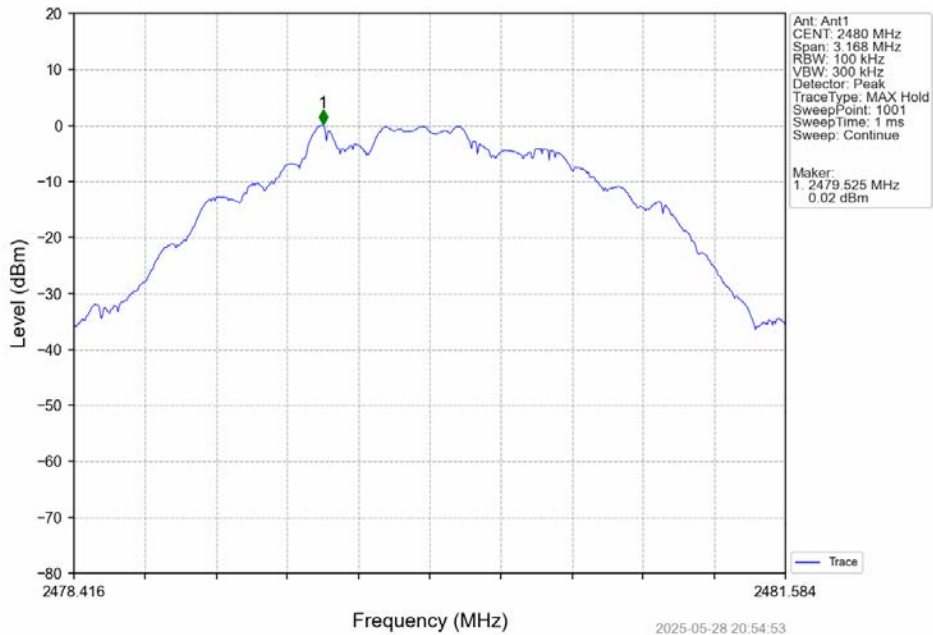


GFSK_DH5_MCH_2441MHz_Ant1_NTNV

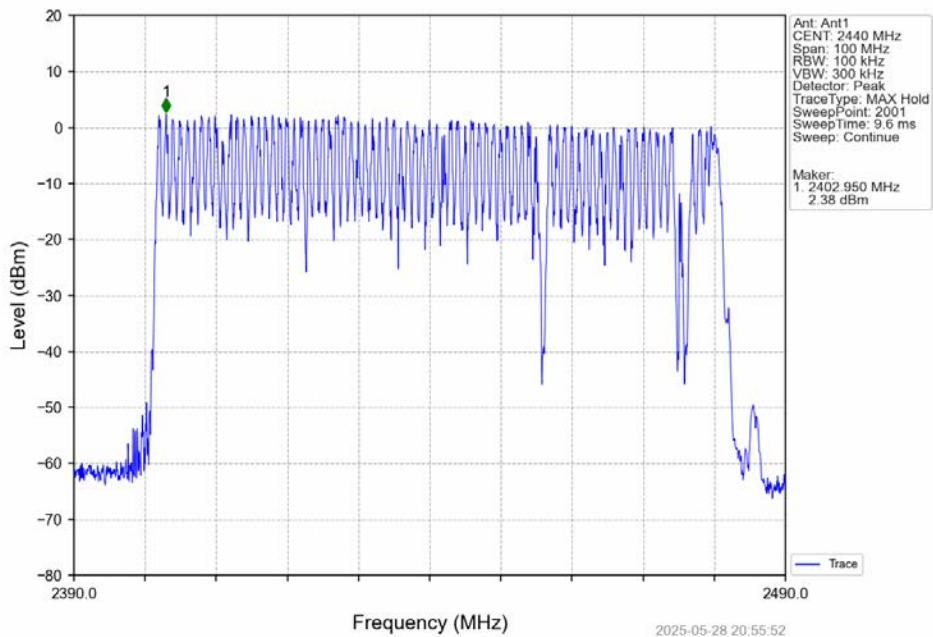




GFSK_DH5_HCH_2480MHz_Ant1_NTNV

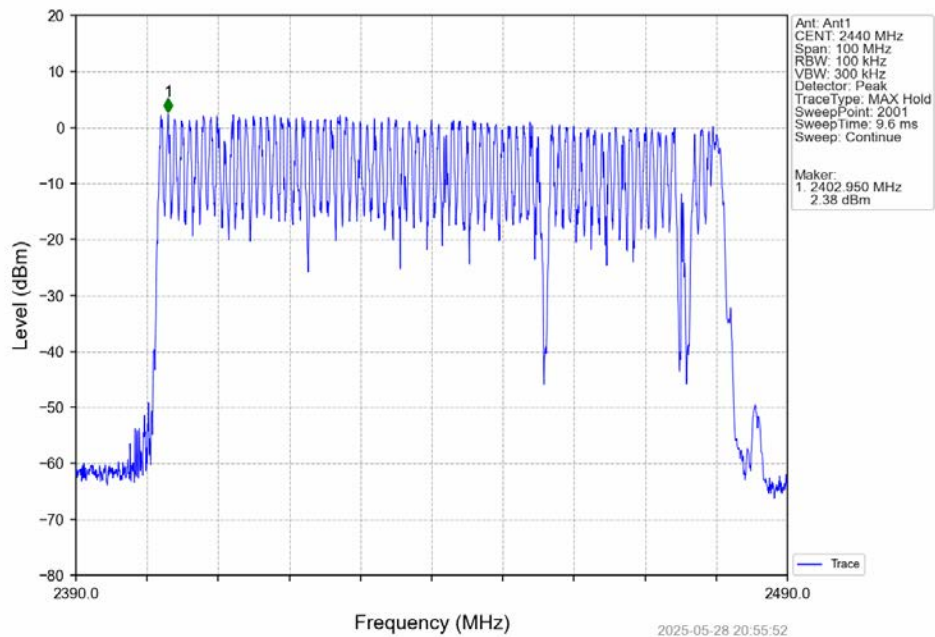


GFSK_DH5_HOPP_Ant1_NTNV

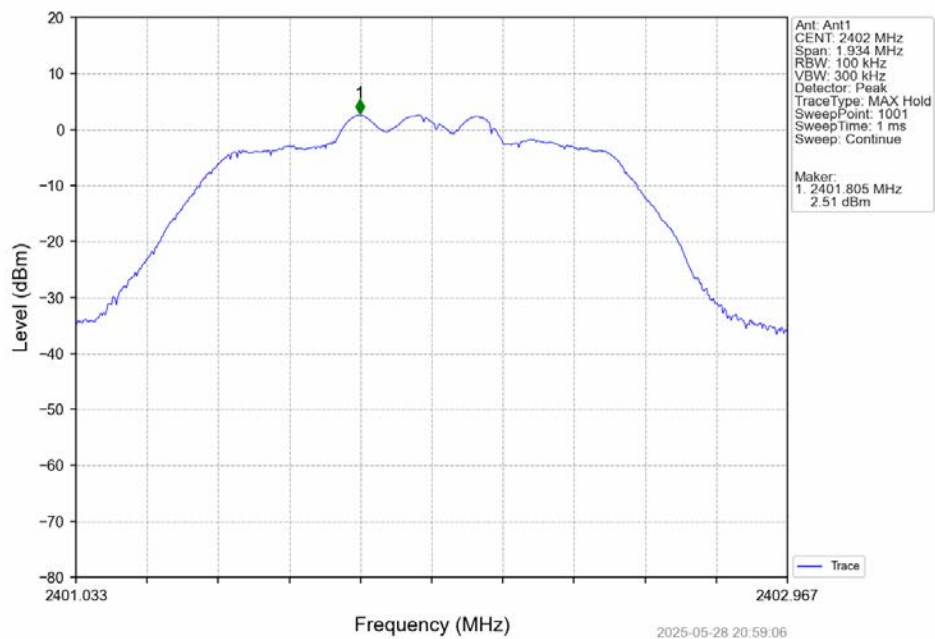




GFSK_DH5_HOPP_Ant1_NTNV

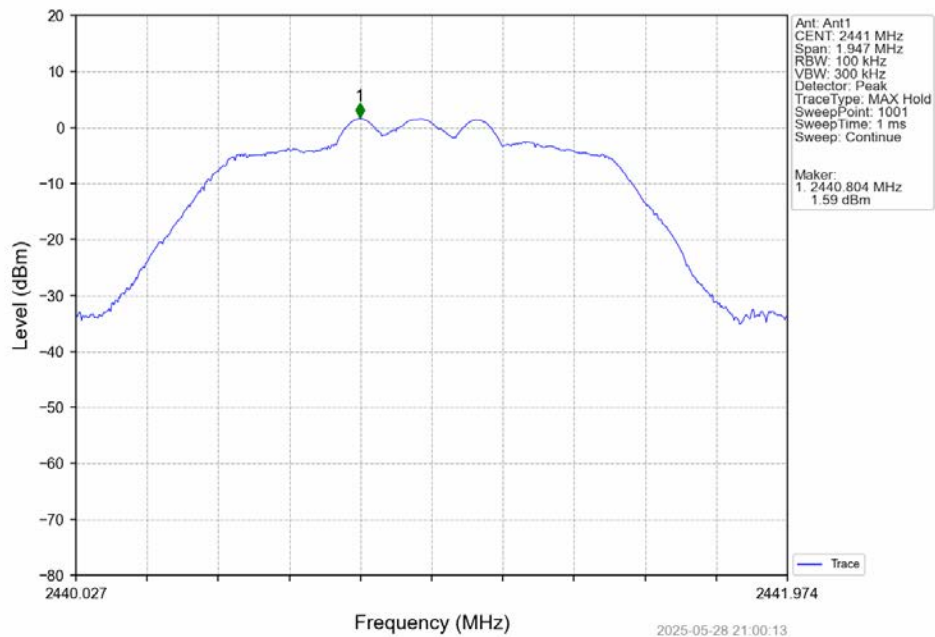


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

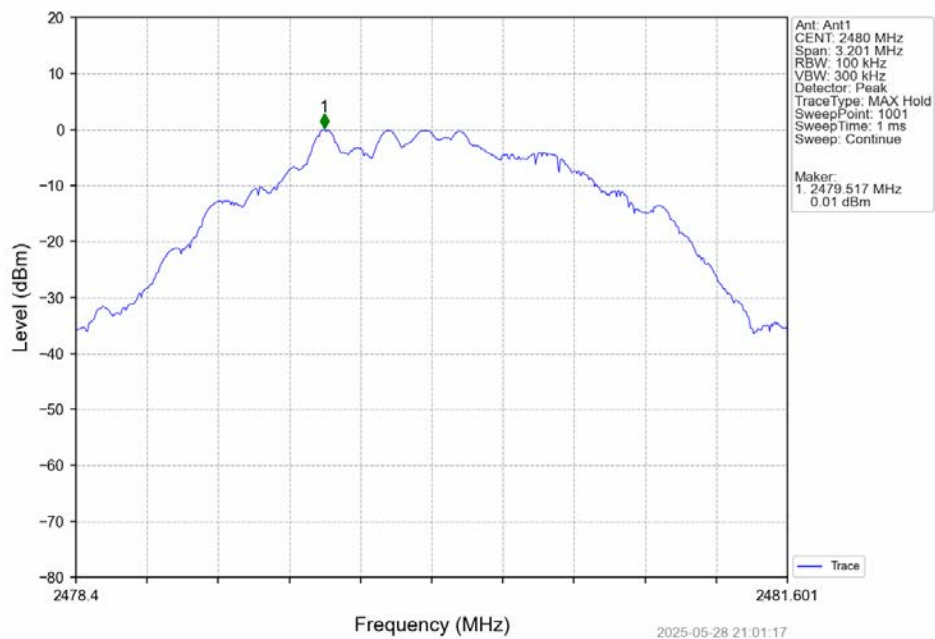




Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

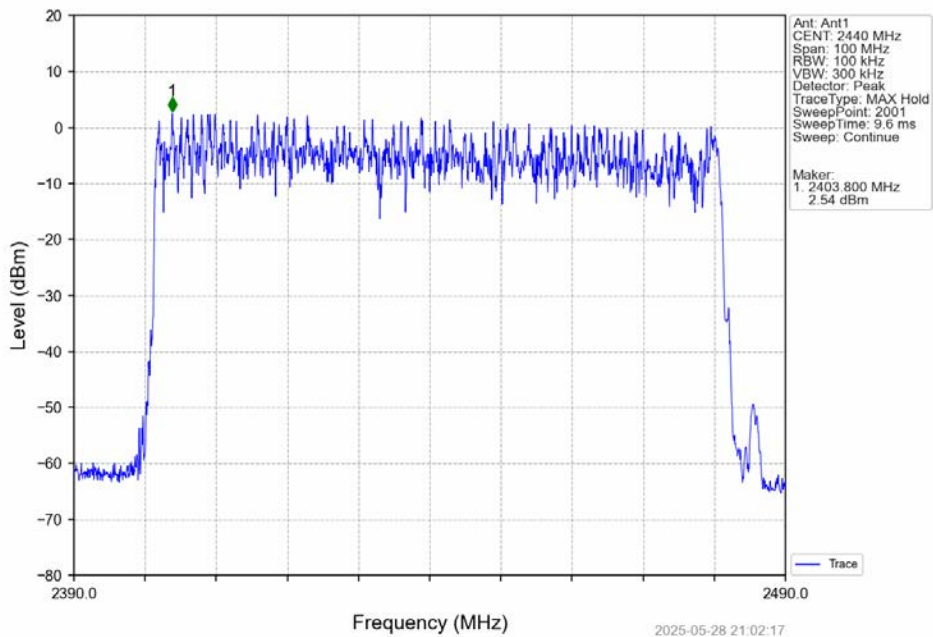


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

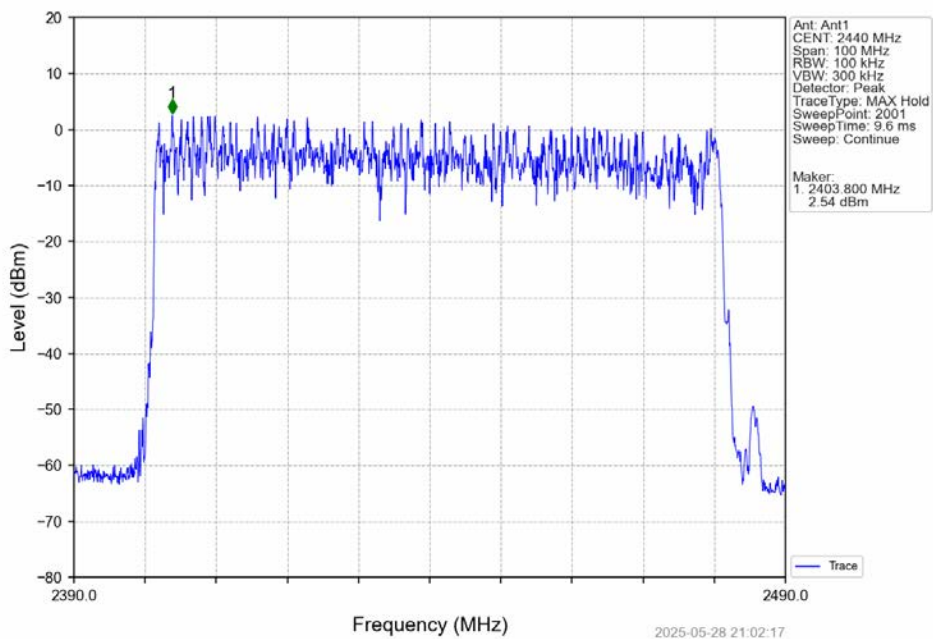




Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

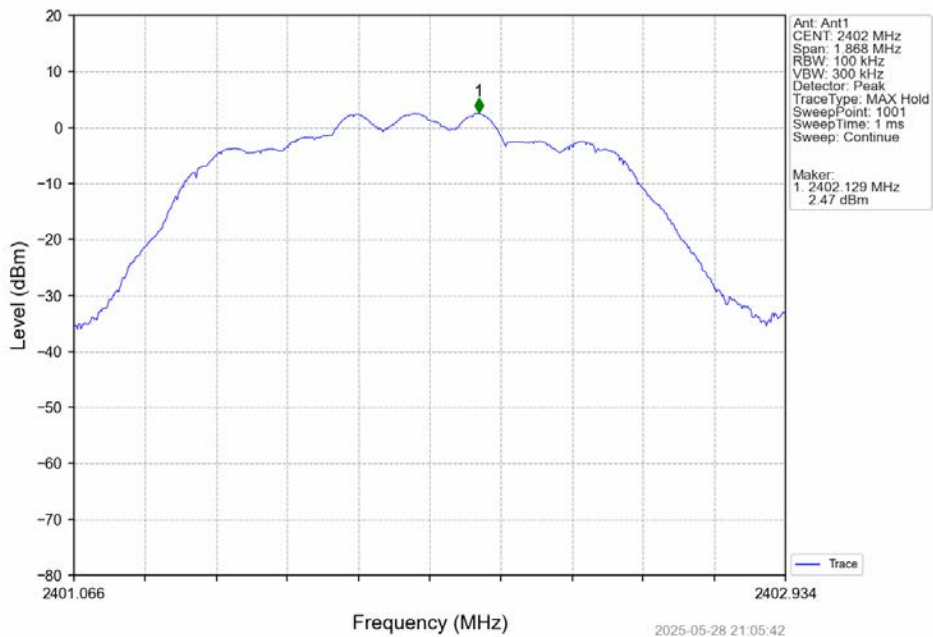


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

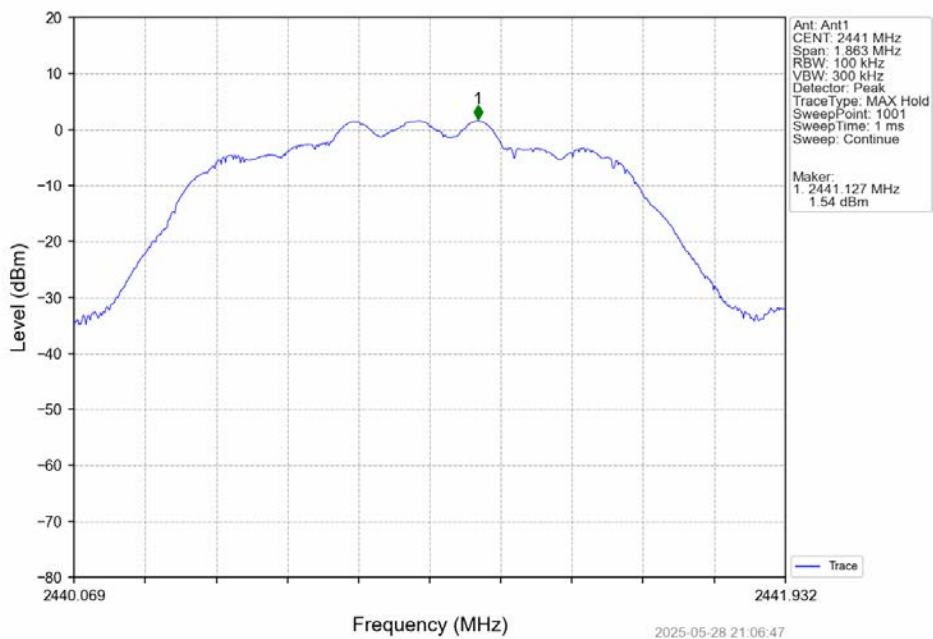




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

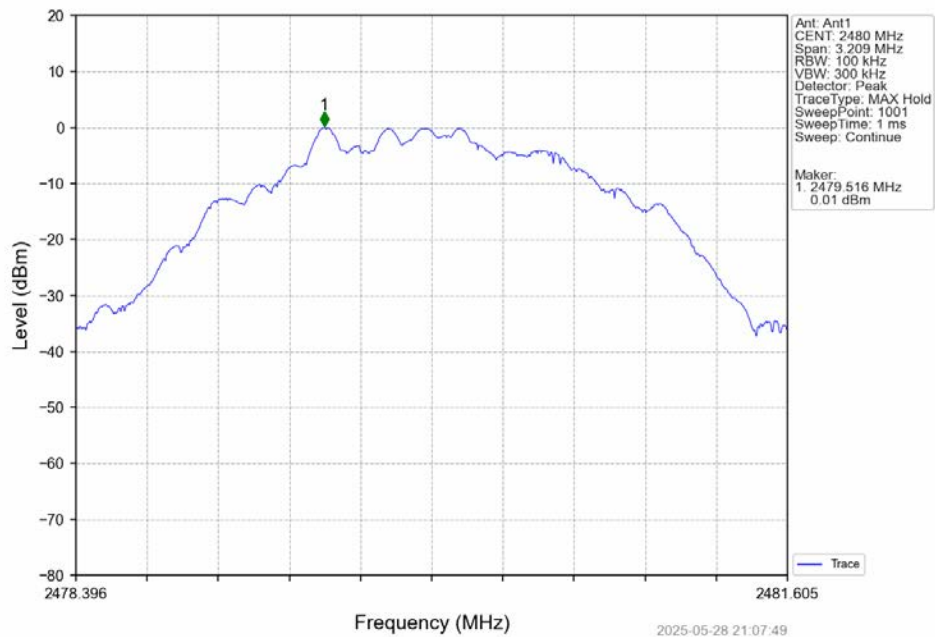


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

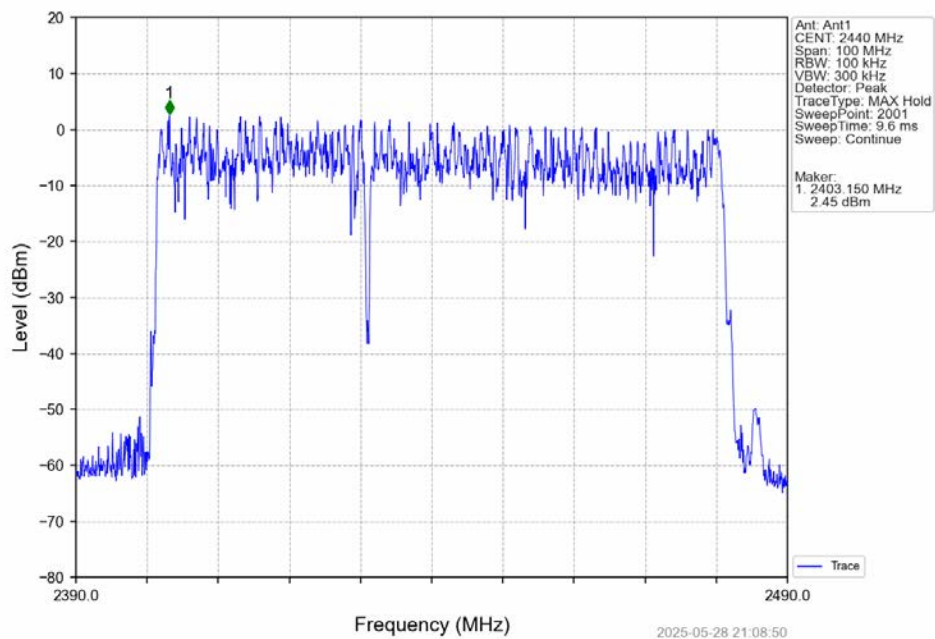




8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

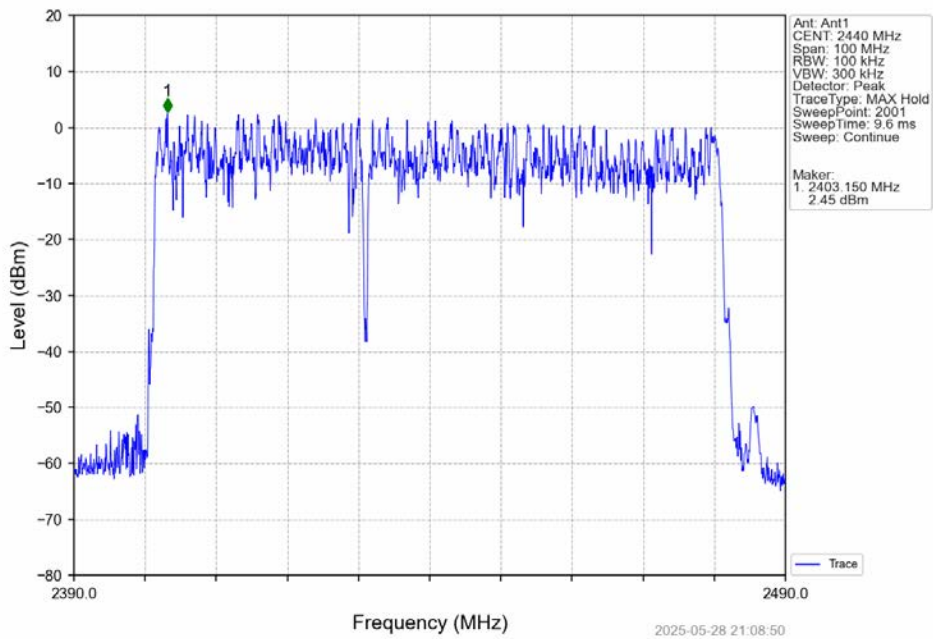


8DPSK_3DH5_HOPP_Ant1_NTNV



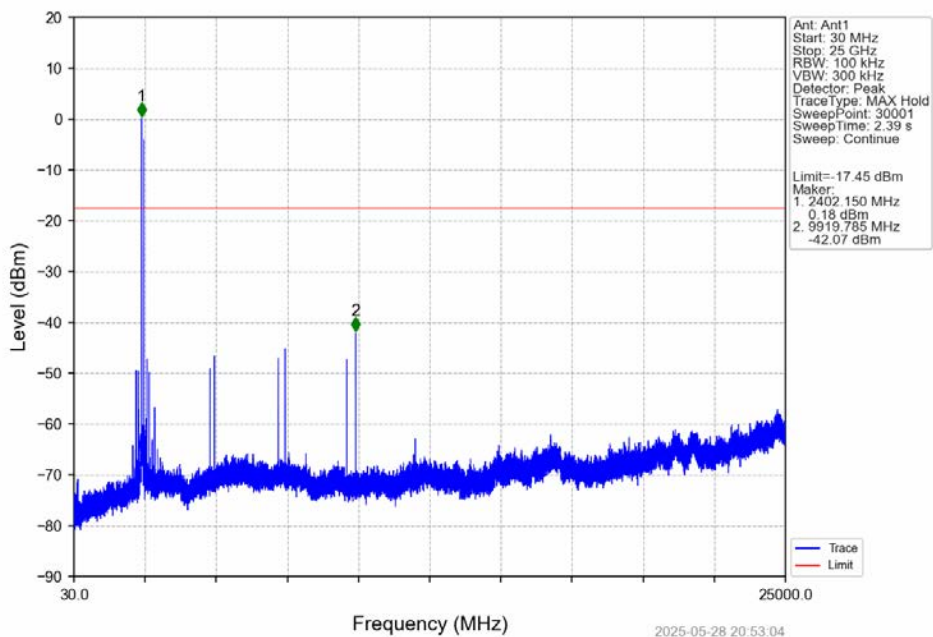


8DPSK_3DH5_HOPP_Ant1_NTNV

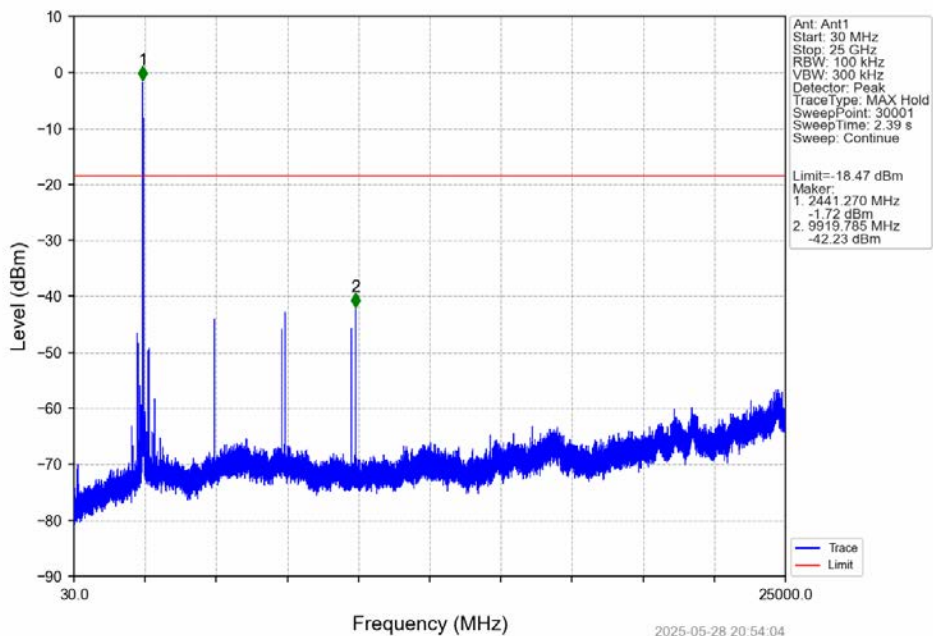




GFSK_DH5_LCH_2402MHz_Ant1_NTNV

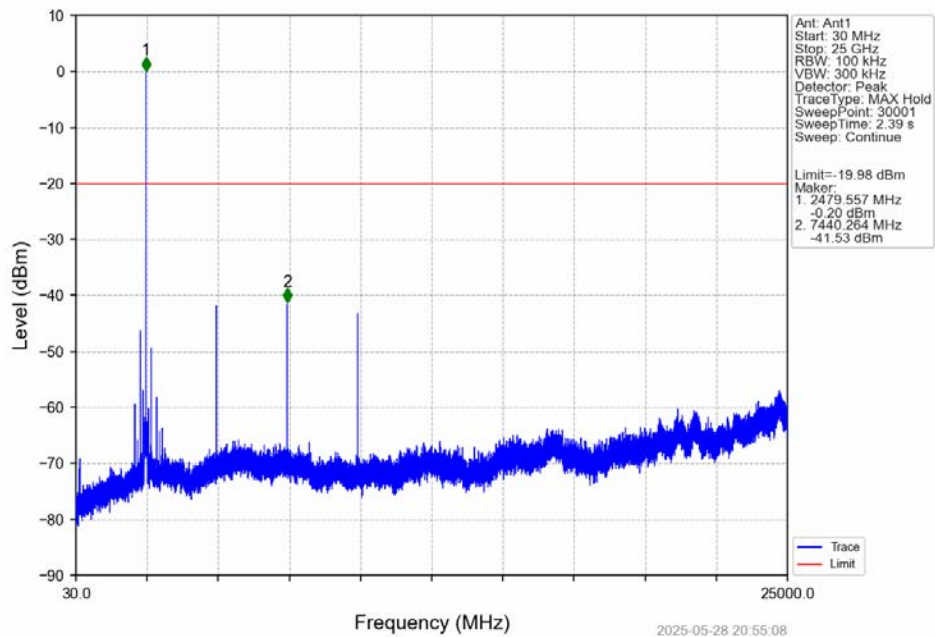


GFSK_DH5_MCH_2441MHz_Ant1_NTNV

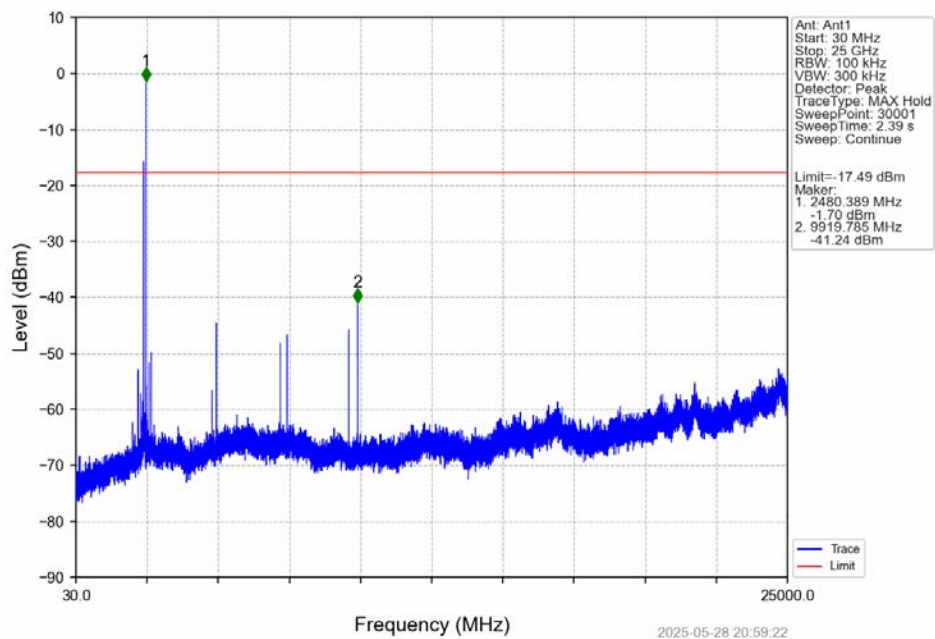




GFSK_DH5_HCH_2480MHz_Ant1_NTNV

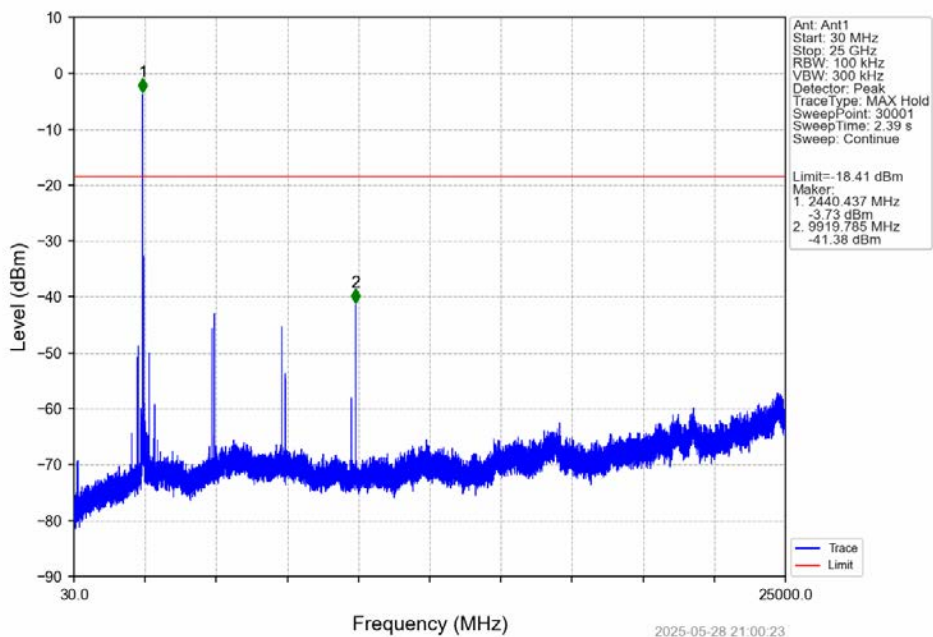


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

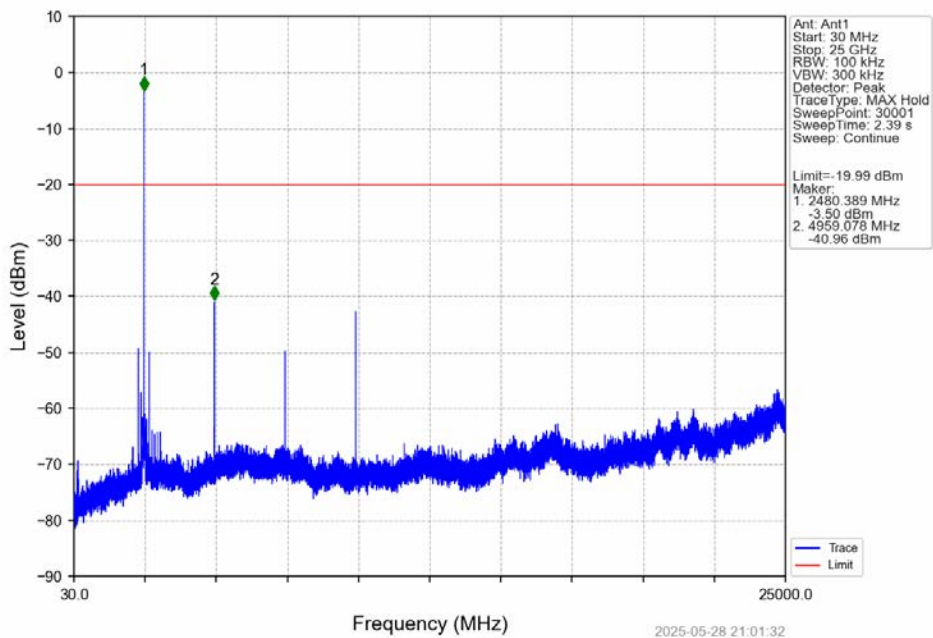




Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

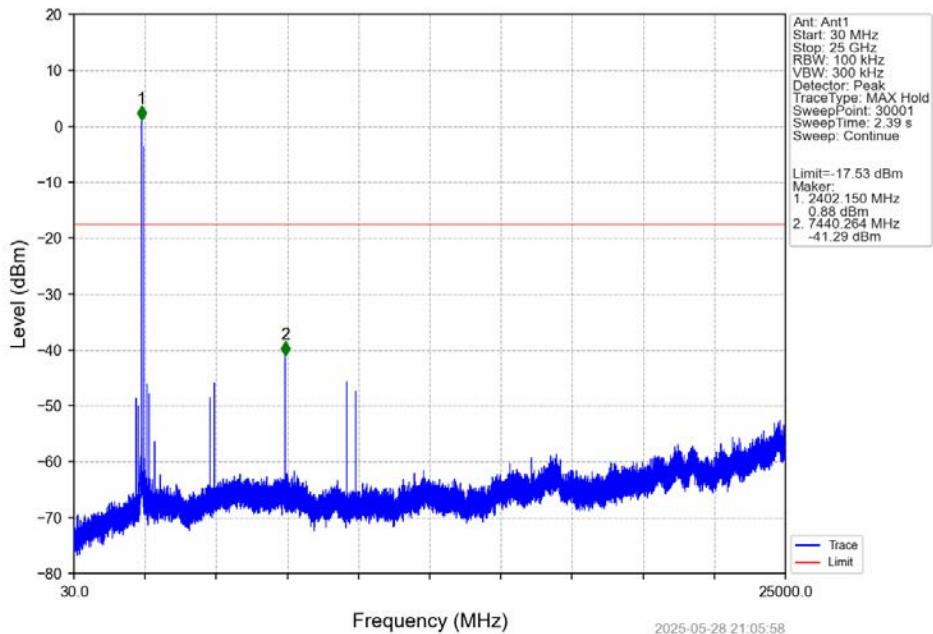


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

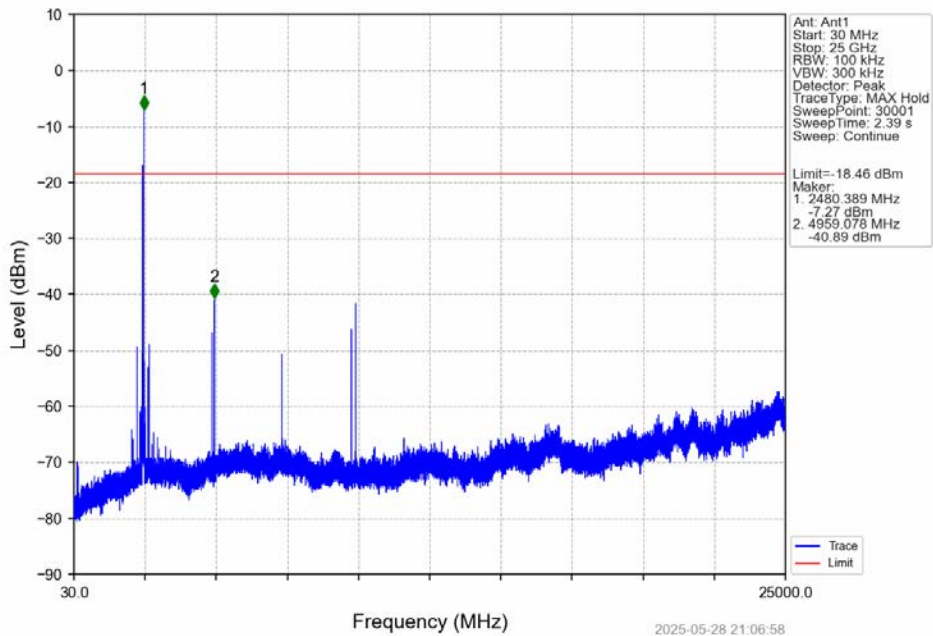




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

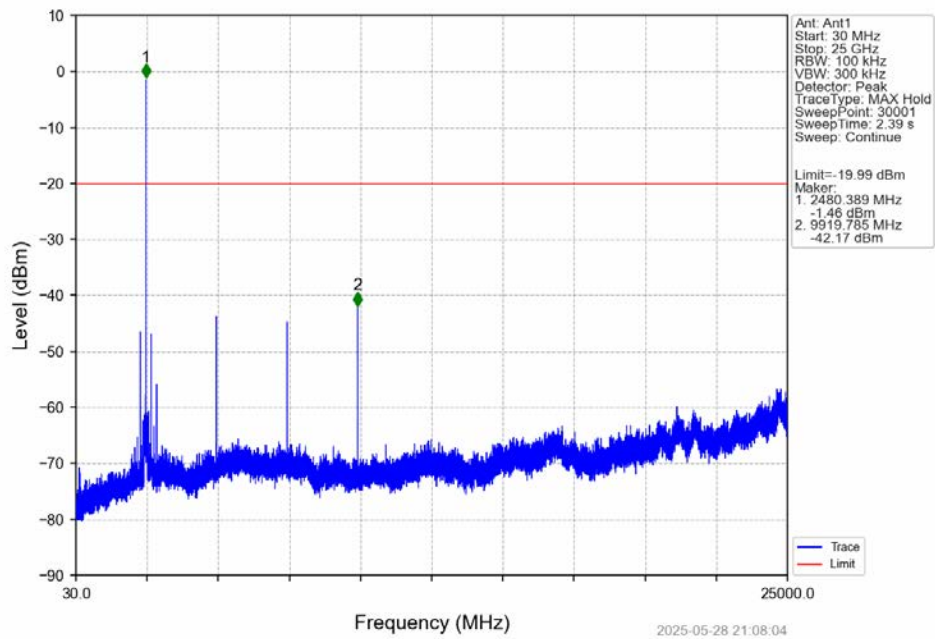


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV





A.8 Duty Cycle

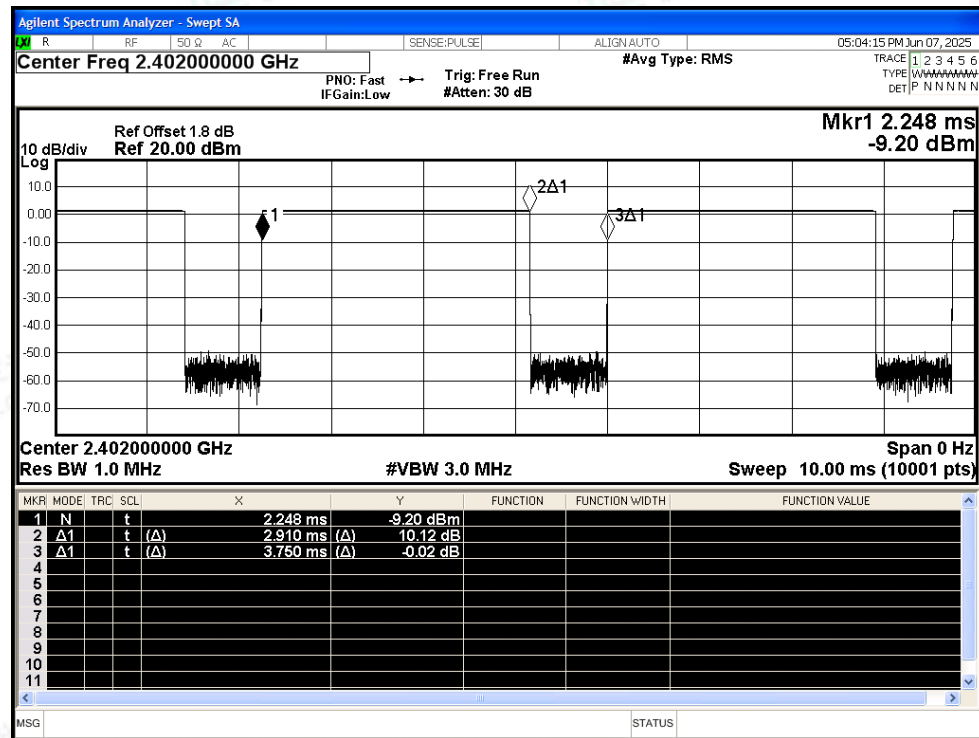
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.07	1.13	0.35
NVNT	2-DH5	2441	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.33	1.12	0.34
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35



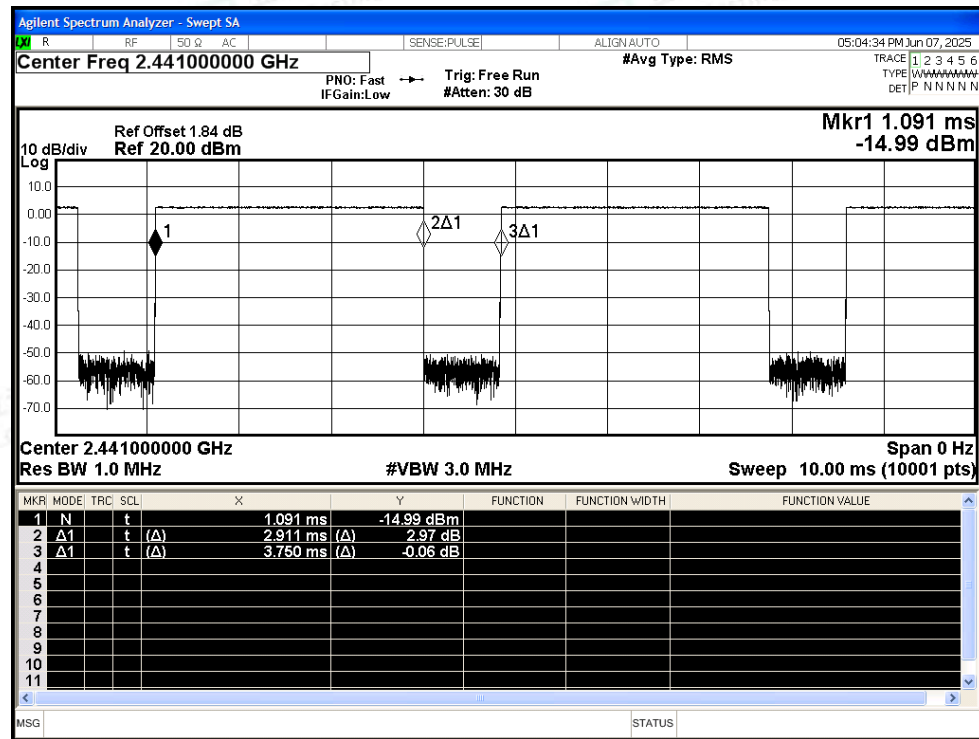


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

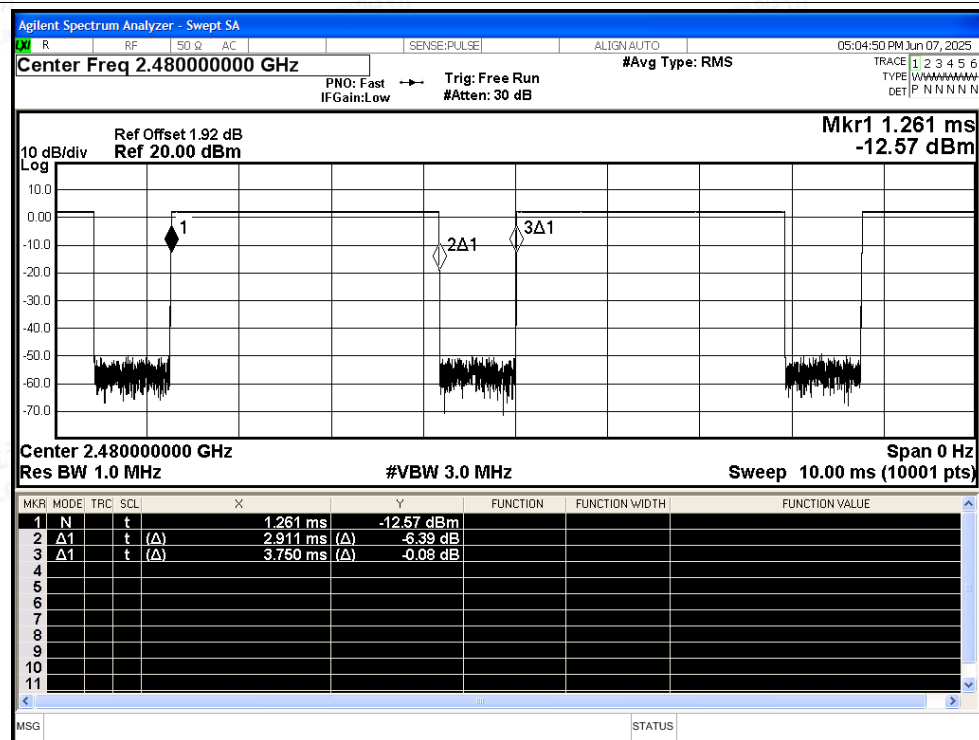
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

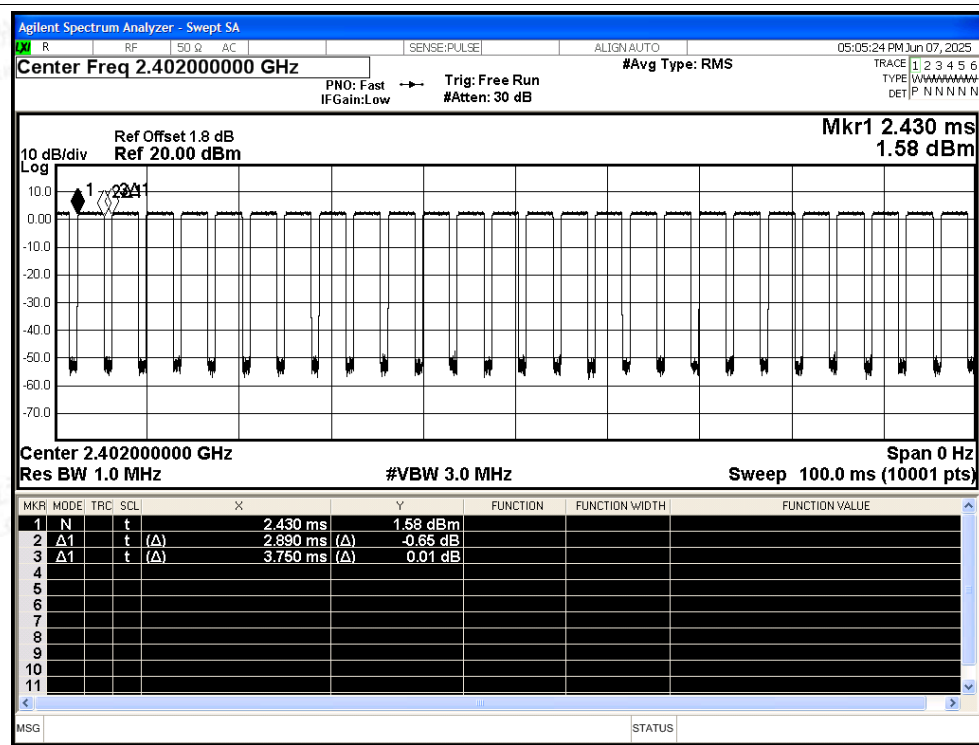
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1

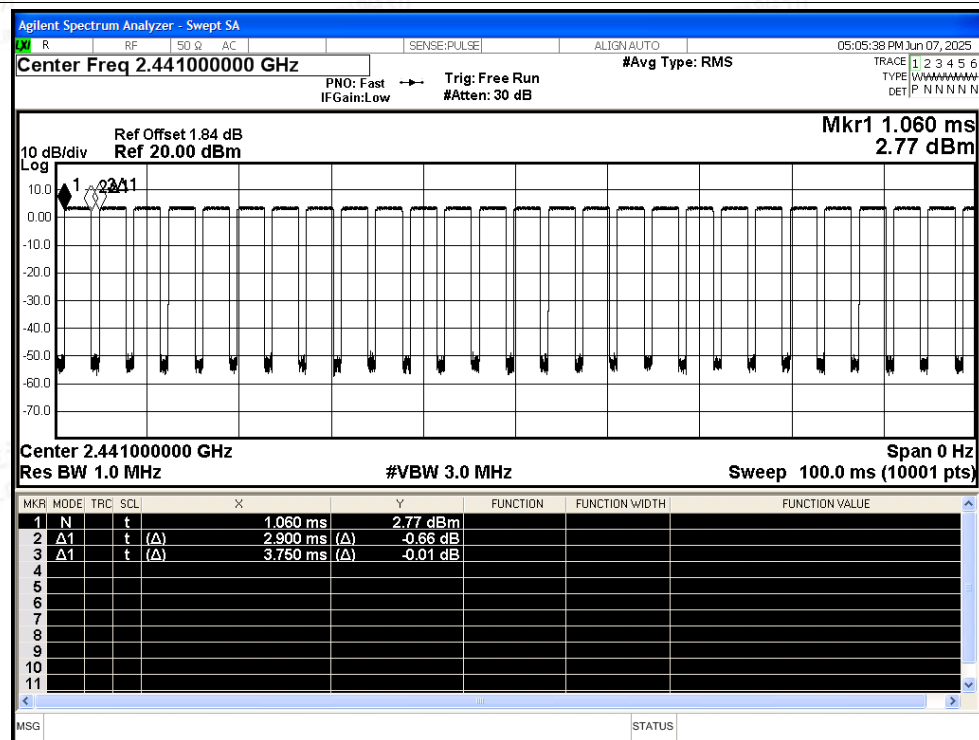


Duty Cycle NVNT 2-DH5 2402MHz Ant1

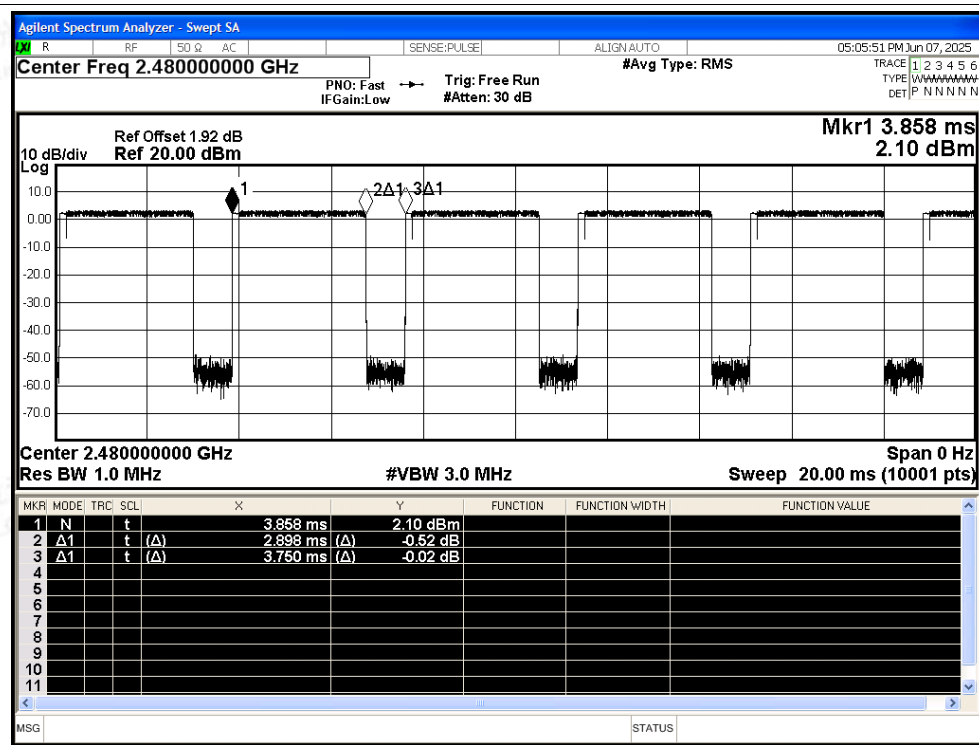




Duty Cycle NVNT 2-DH5 2441MHz Ant1

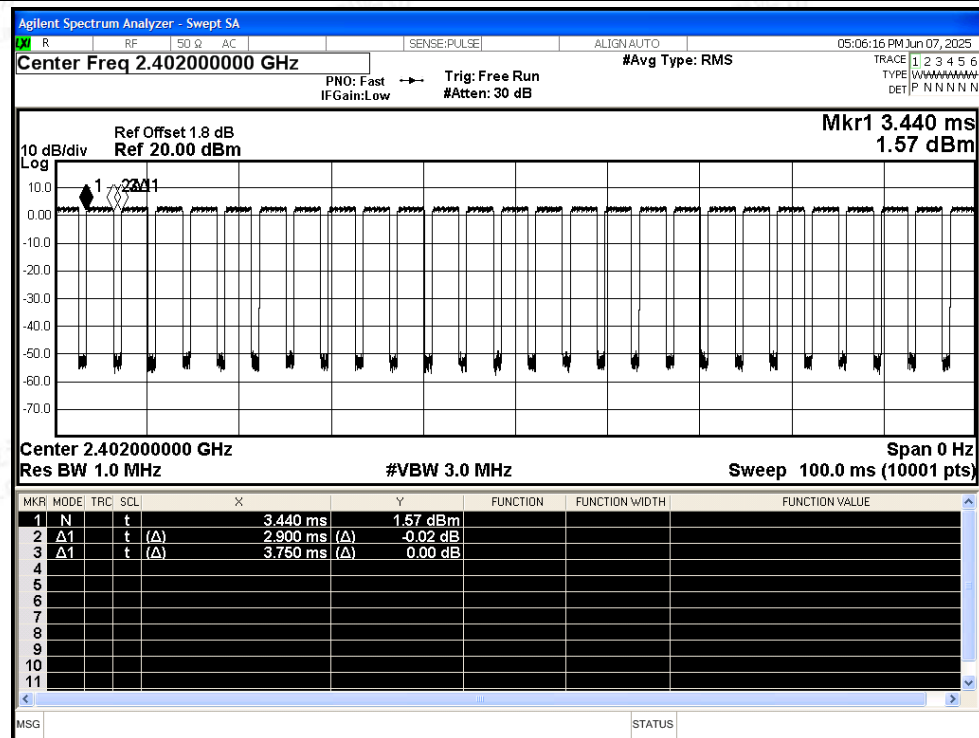


Duty Cycle NVNT 2-DH5 2480MHz Ant1

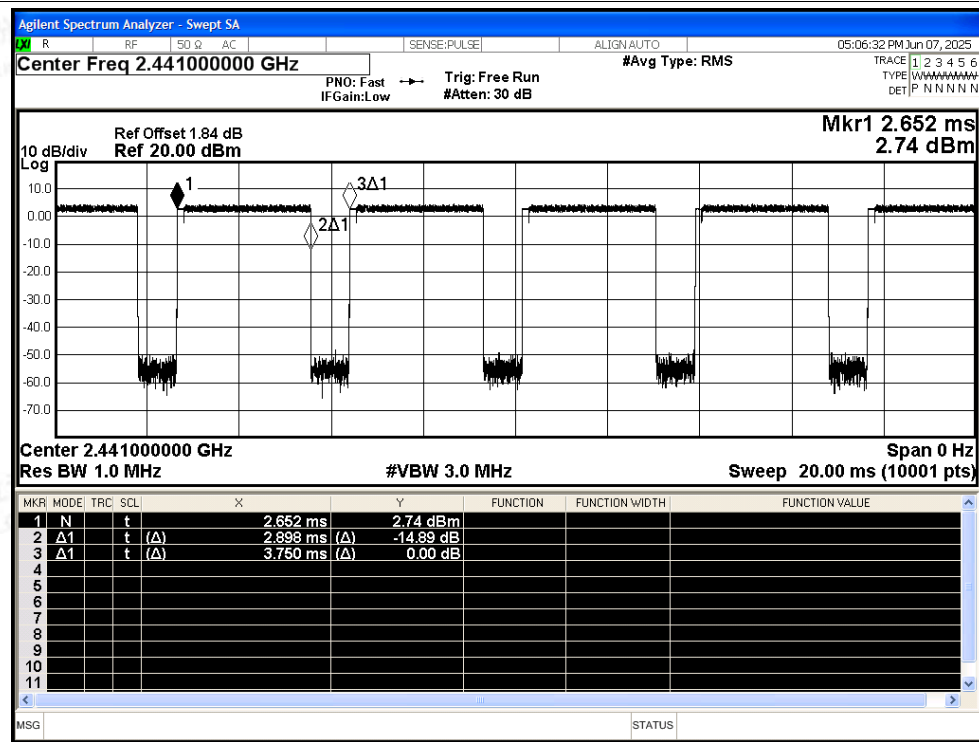


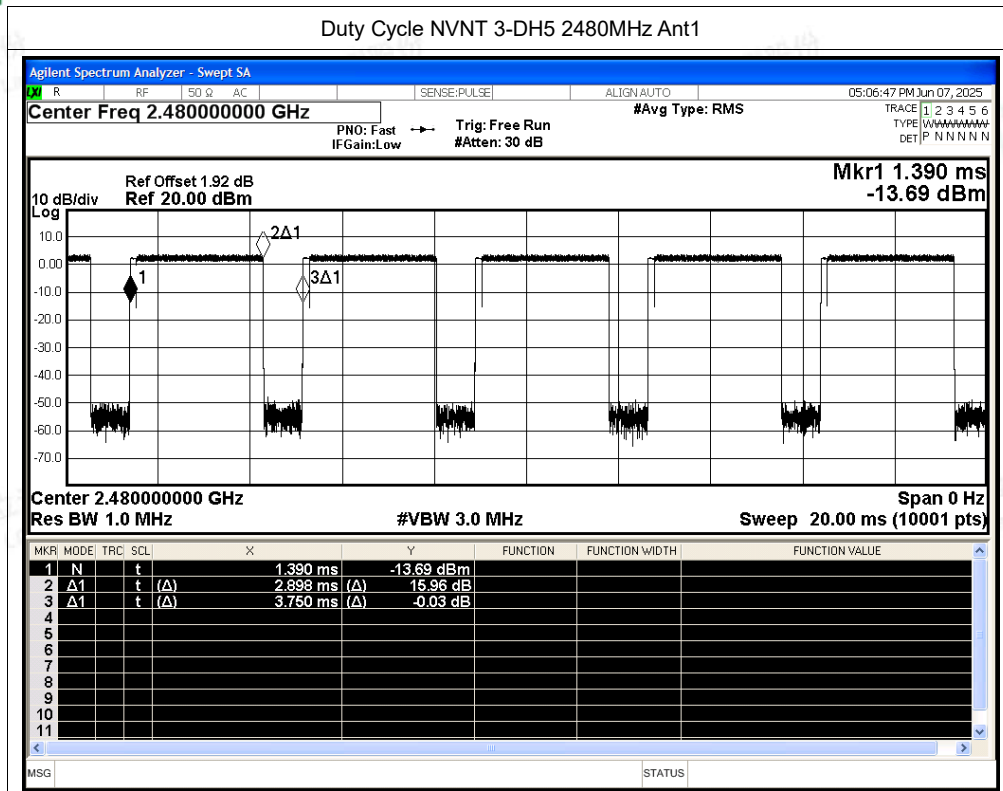


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1







A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.04	2	-	46.22	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.2	2	1.1	39.16	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.776	-47.79	2	-	49.47	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2365.392	-57.95	2	1.1	40.41	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.06	2	-	47.2	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.88	2	1.1	39.48	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.19	2	-	49.07	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.54	2	1.1	40.82	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.864	-37.09	2	-	60.17	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.768	-55.96	2	1.1	42.4	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.51	2	-	46.75	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.84	2	1.1	40.52	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.18	2	-	47.08	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.64	2	1.12	39.74	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2386.32	-47.73	2	-	49.53	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2378.16	-57.95	2	1.12	40.43	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.71	2	-	45.55	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.18	2	1.12	40.2	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-43.86	2	-	53.4	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-56.27	2	1.12	42.11	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.728	-34.77	2	-	62.49	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.656	-55.16	2	1.12	43.22	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49	2	-	48.26	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.58	2	1.12	40.8	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.83	2	-	46.43	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.46	2	1.12	39.92	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2359.92	-47.91	2	-	49.35	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.432	-57.73	2	1.12	40.65	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.06	2	-	47.2	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.57	2	1.12	39.81	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-42.15	2	-	55.11	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-53.93	2	1.12	44.45	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2485.144	-36.3	2	-	60.96	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-53.93	2	1.12	44.45	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.82	2	-	46.44	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.89	2	1.12	40.49	Average	54	Pass



Shenzhen LCS Compliance Testing Laboratory Ltd.

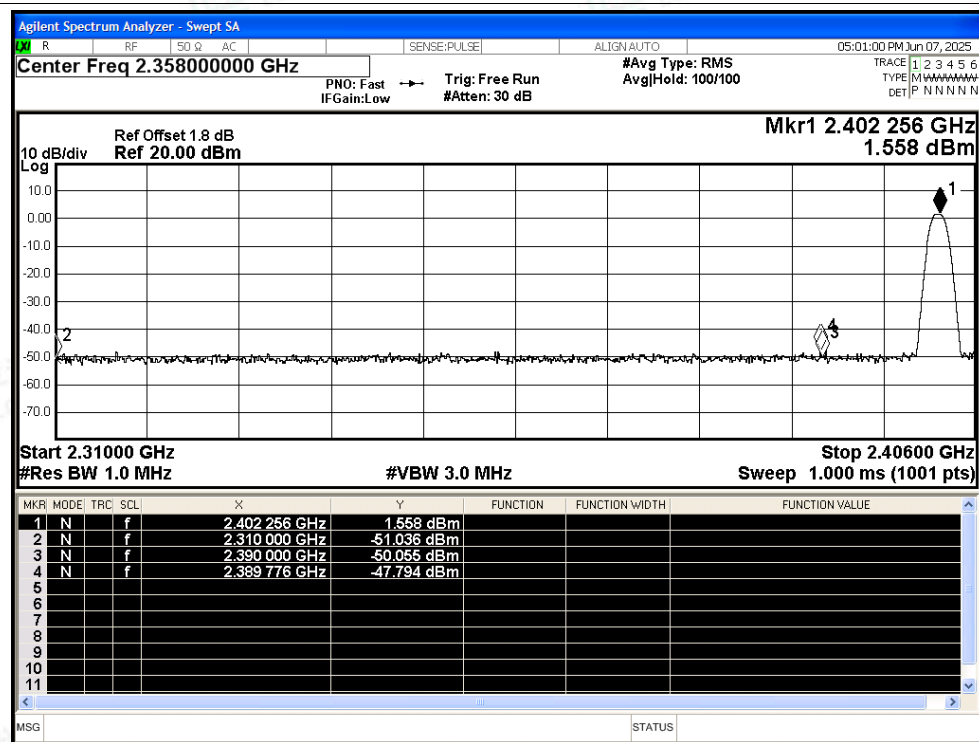
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

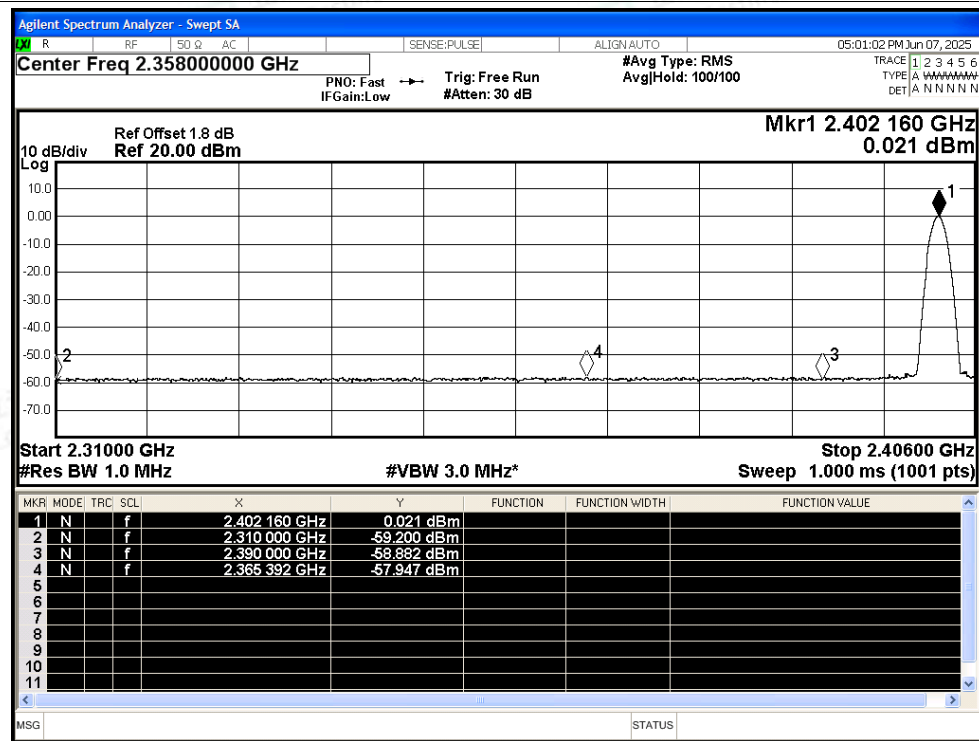
Scan code to check authenticity

Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



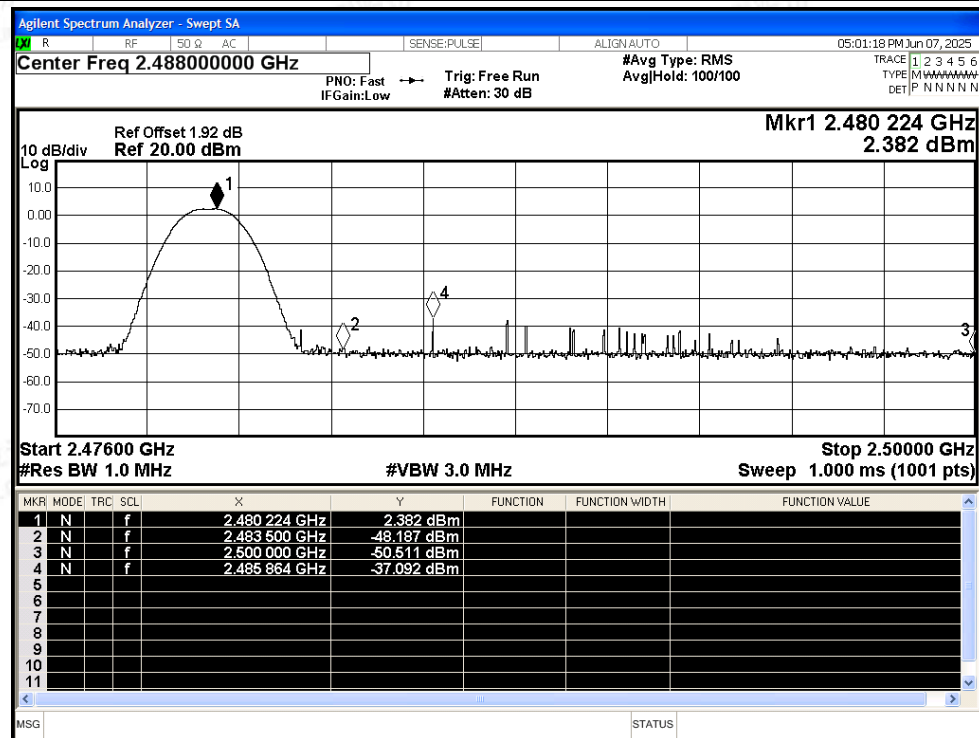
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



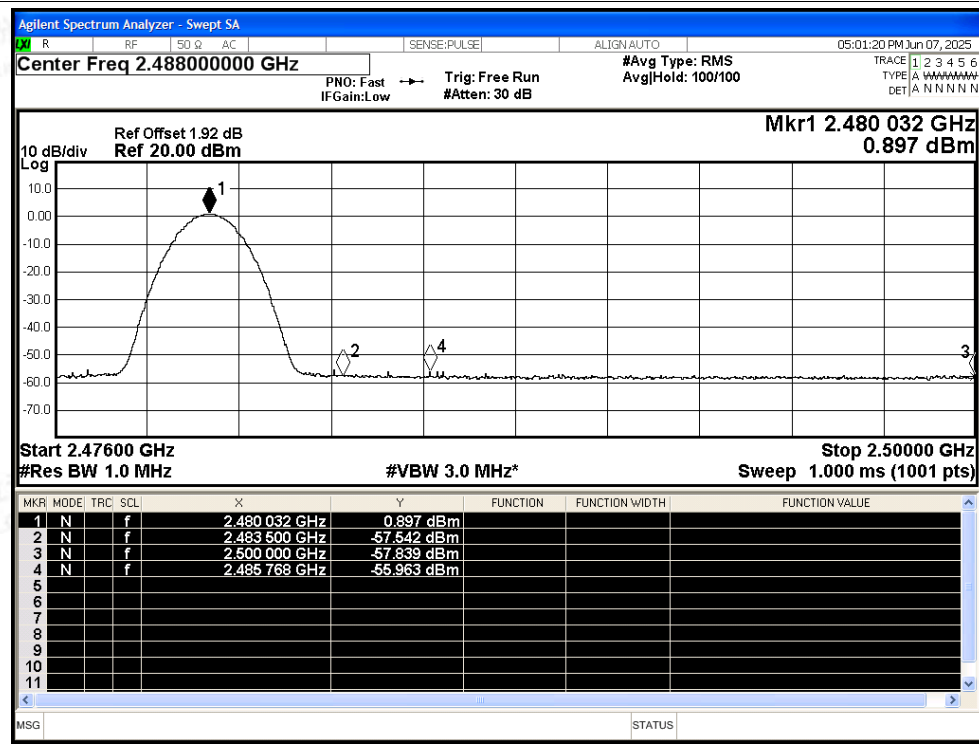
Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,
518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

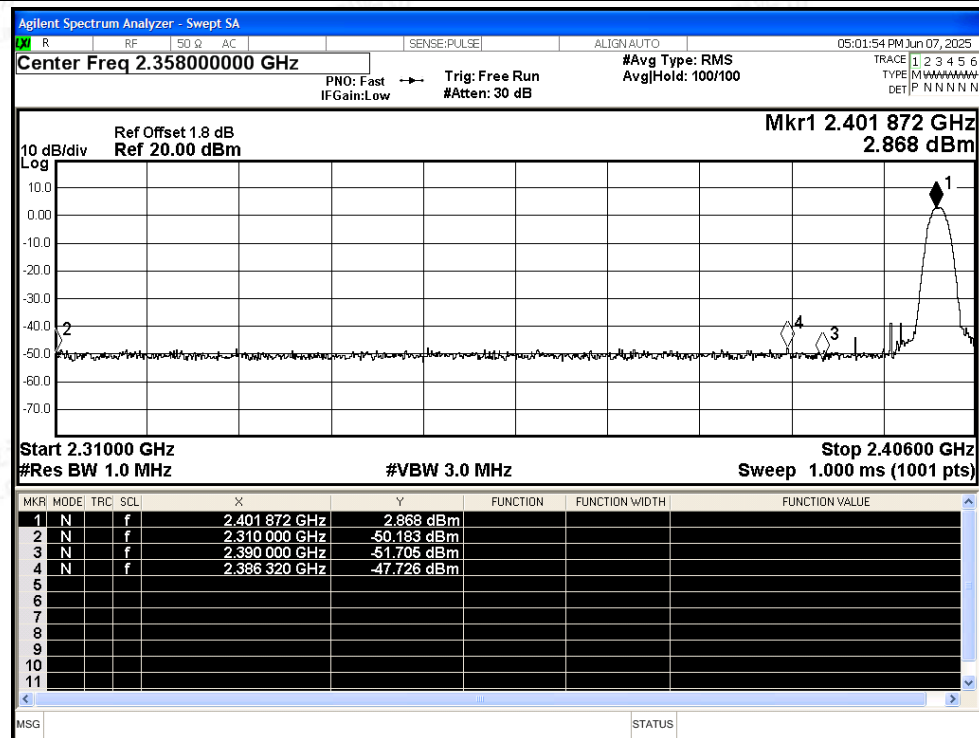


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

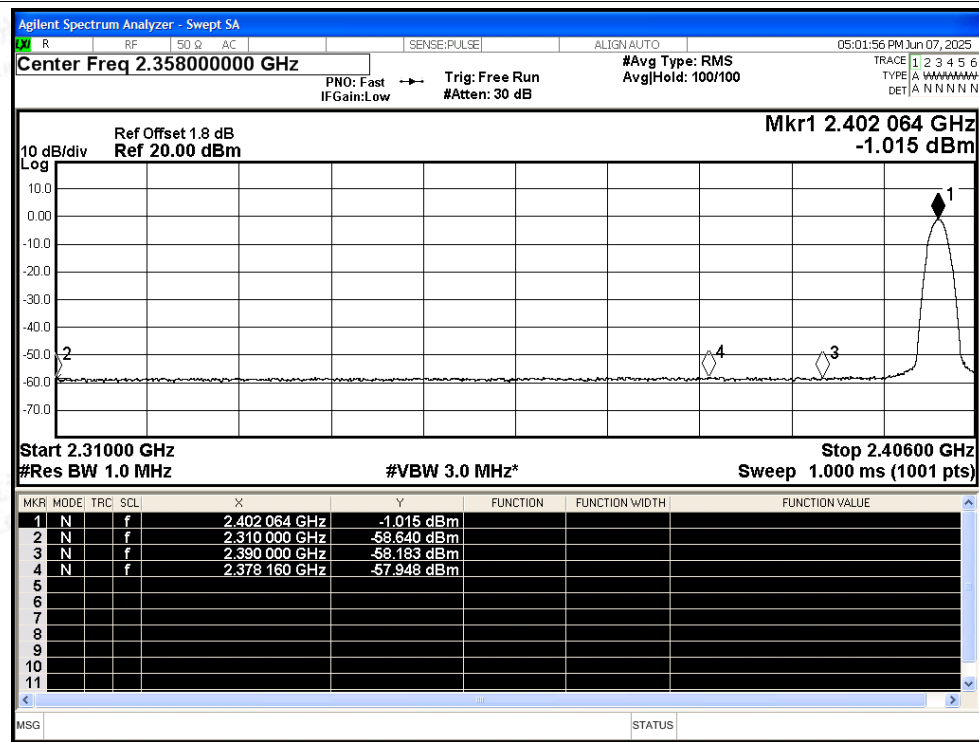




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

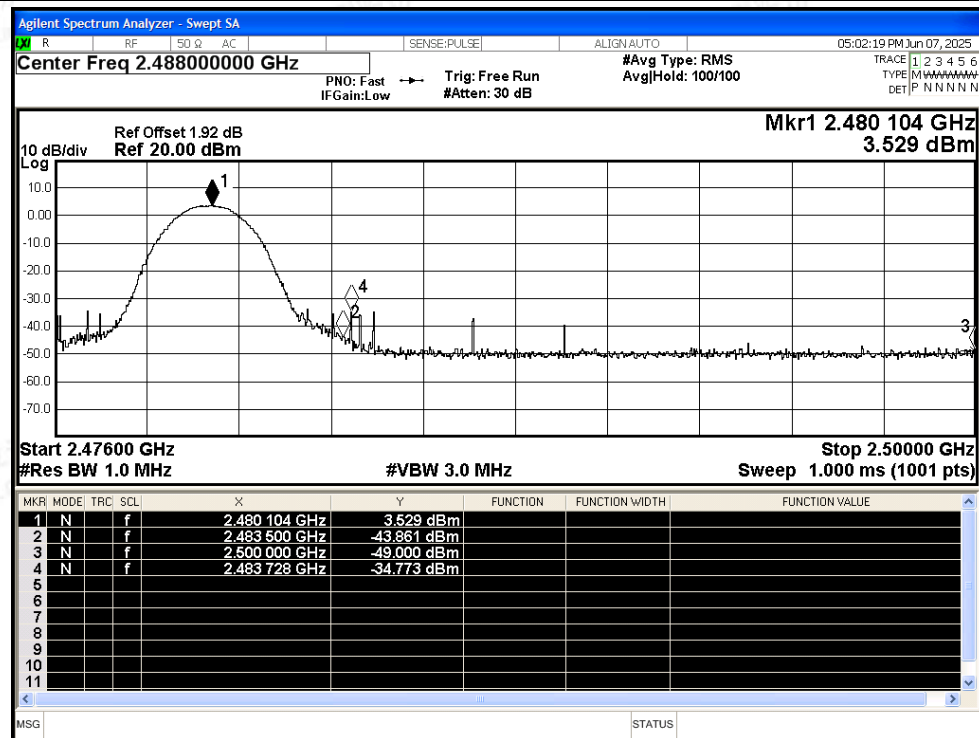


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

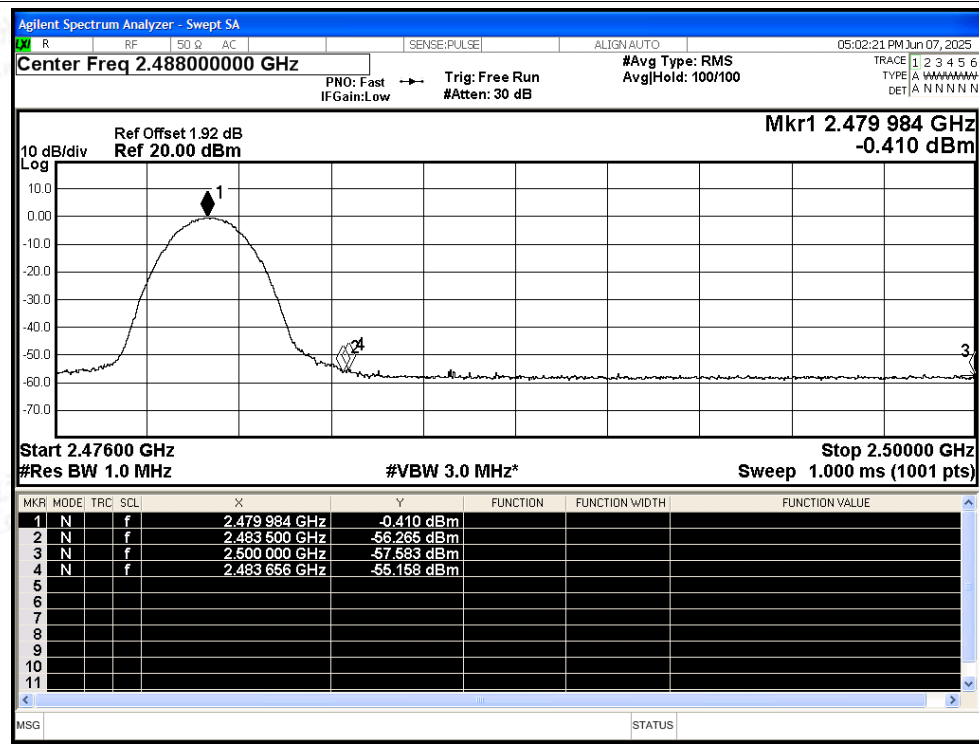




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

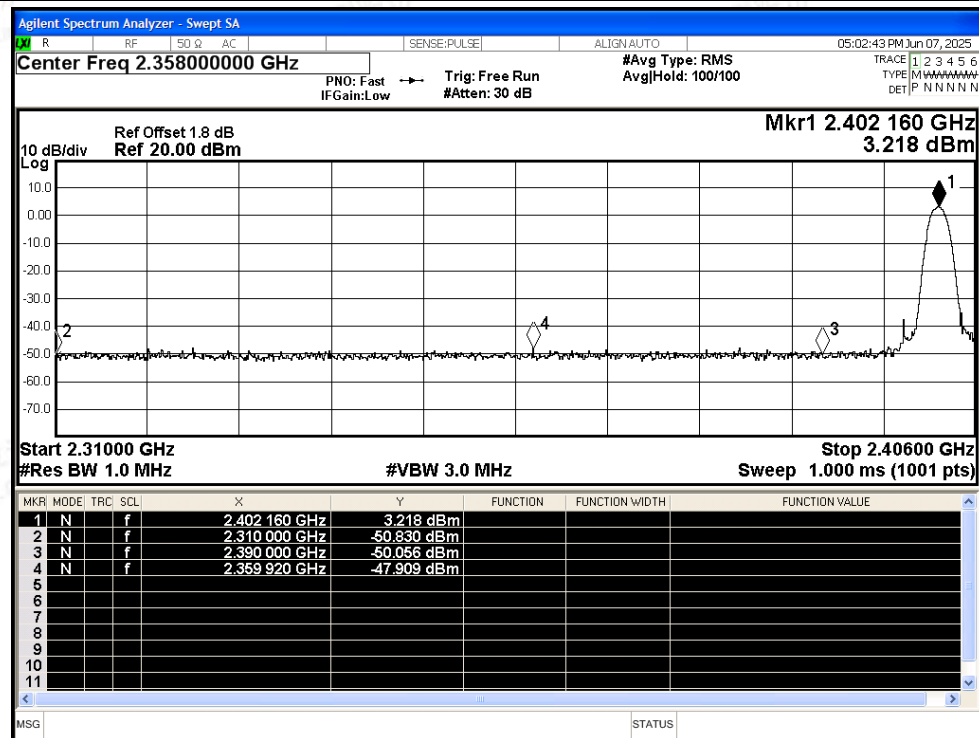


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

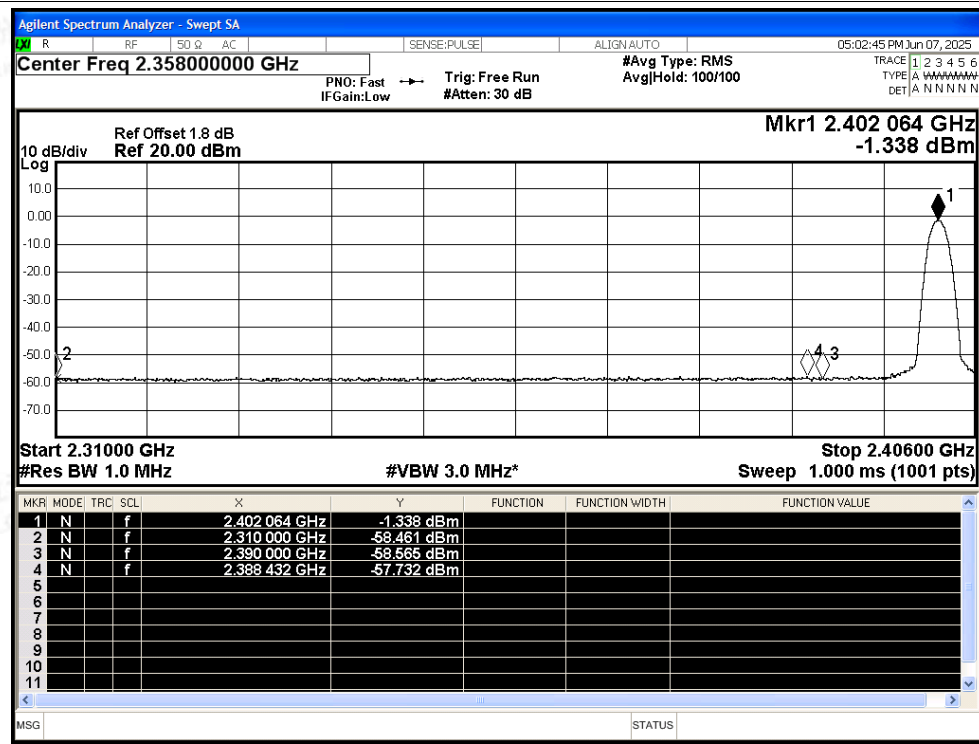




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

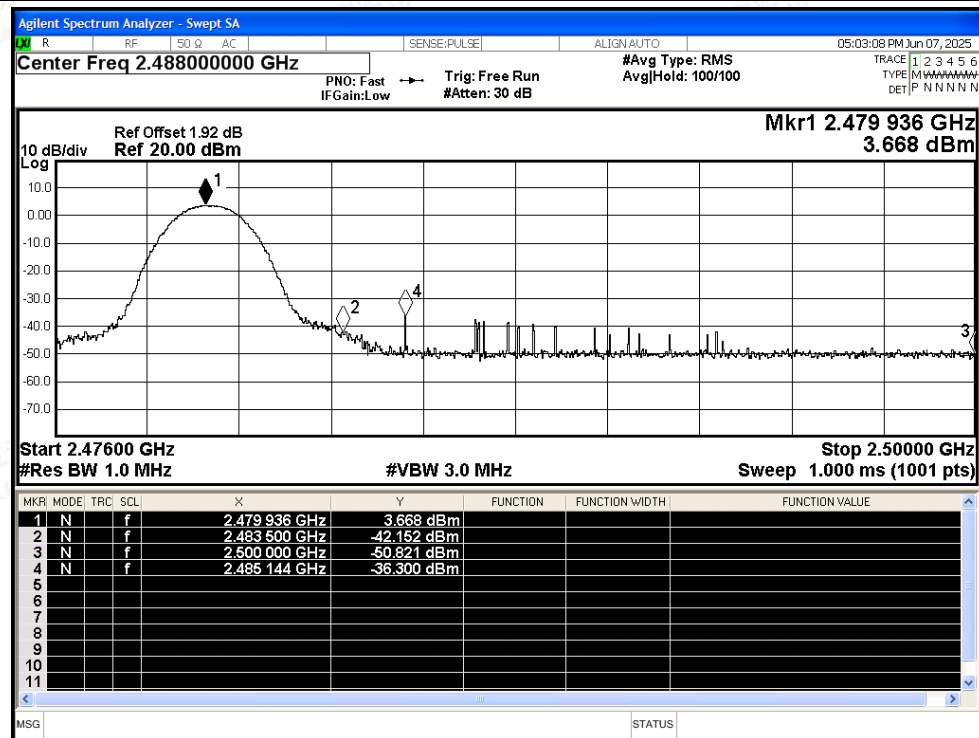


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average

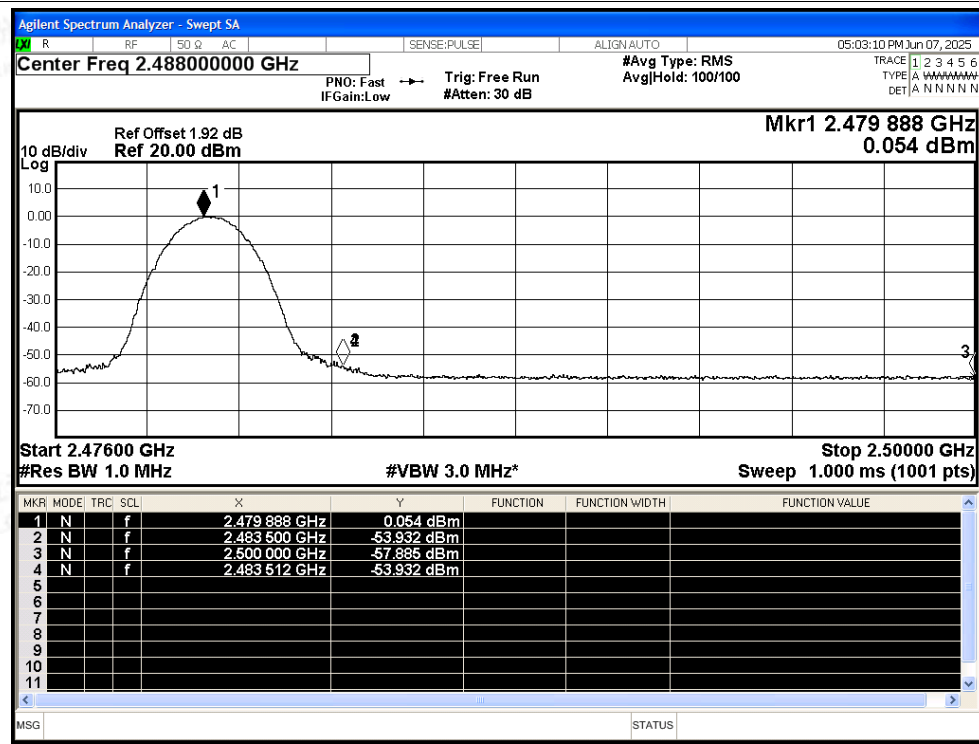




Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity