



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: PeriPage Portable Label Printer

Test Model: ALD-PB200

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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A.1 -20dB Bandwidth

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.958	/	Pass
		2441	DH5	1	0.954	/	Pass
		2480	DH5	1	0.958	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.285	/	Pass
		2441	2DH5	1	1.285	/	Pass
		2480	2DH5	1	1.285	/	Pass
8DPSK	SISO	2402	3DH5	1	1.306	/	Pass
		2441	3DH5	1	1.306	/	Pass
		2480	3DH5	1	1.306	/	Pass



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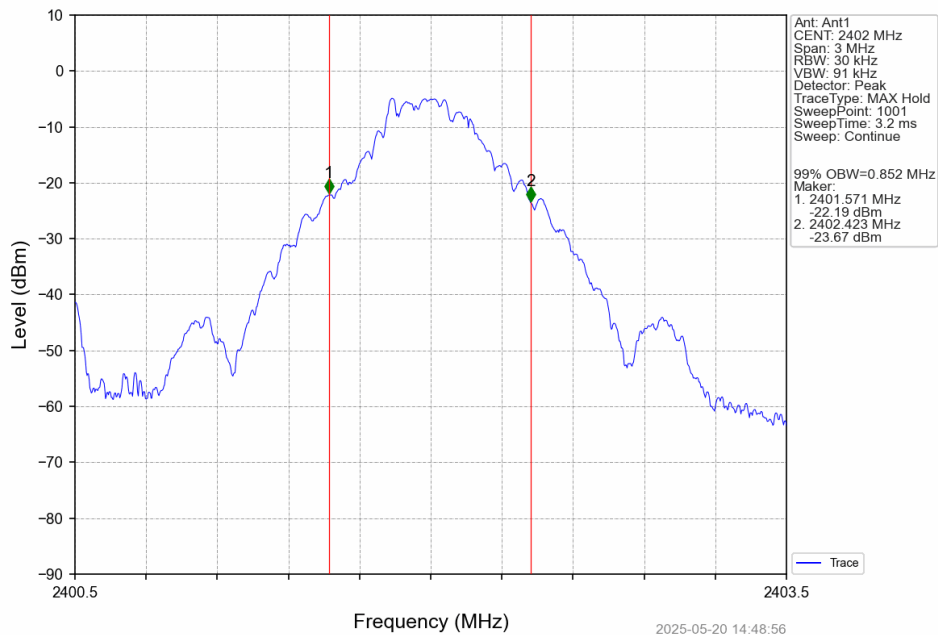
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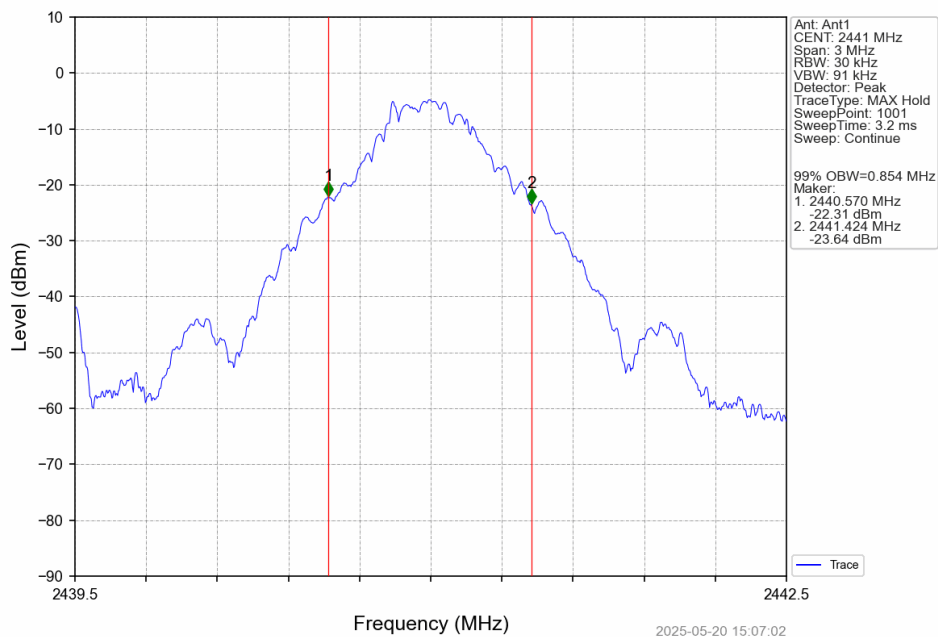
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GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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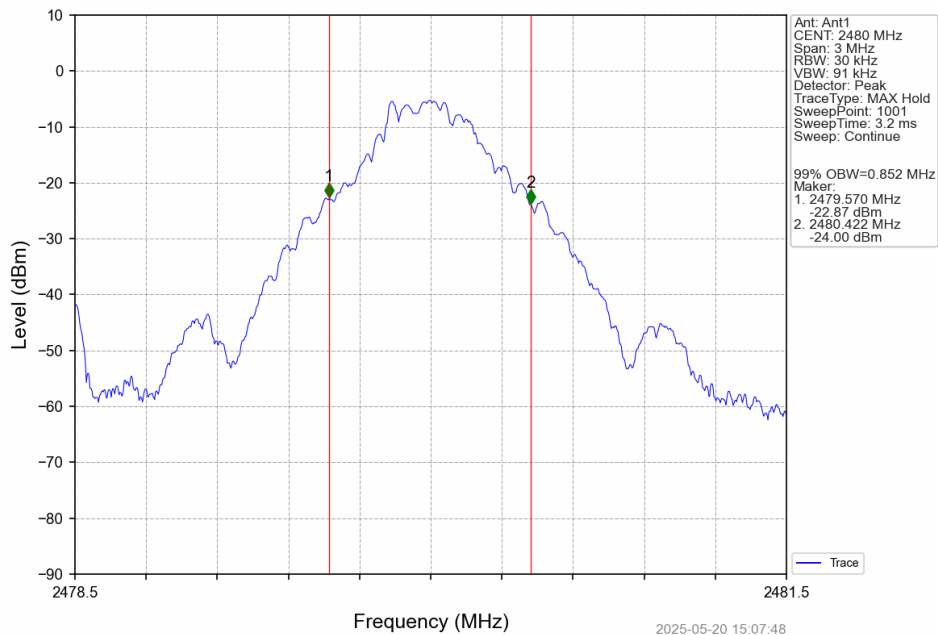
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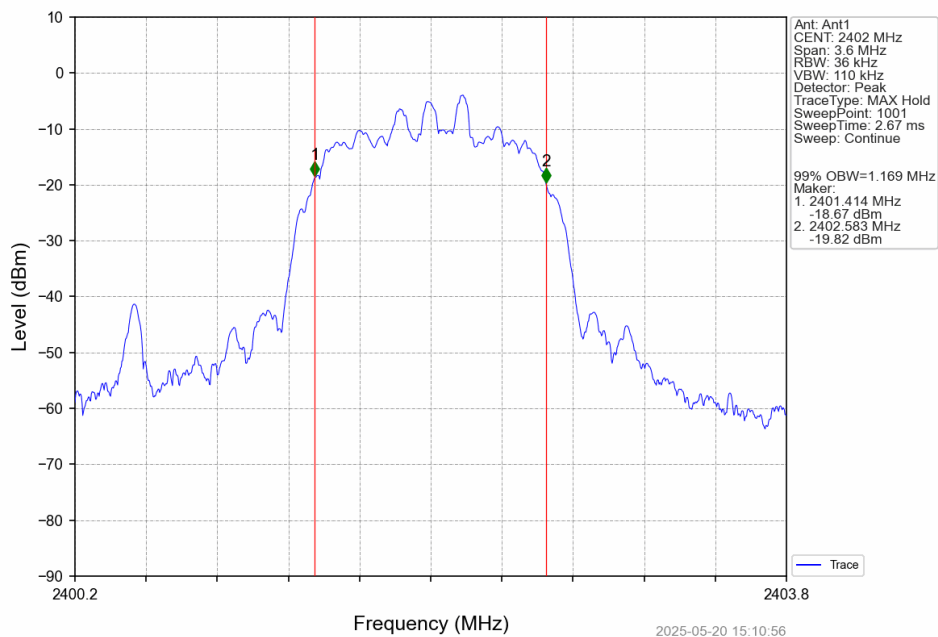
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GFSK DH5 HCH 2480MHz Ant1 NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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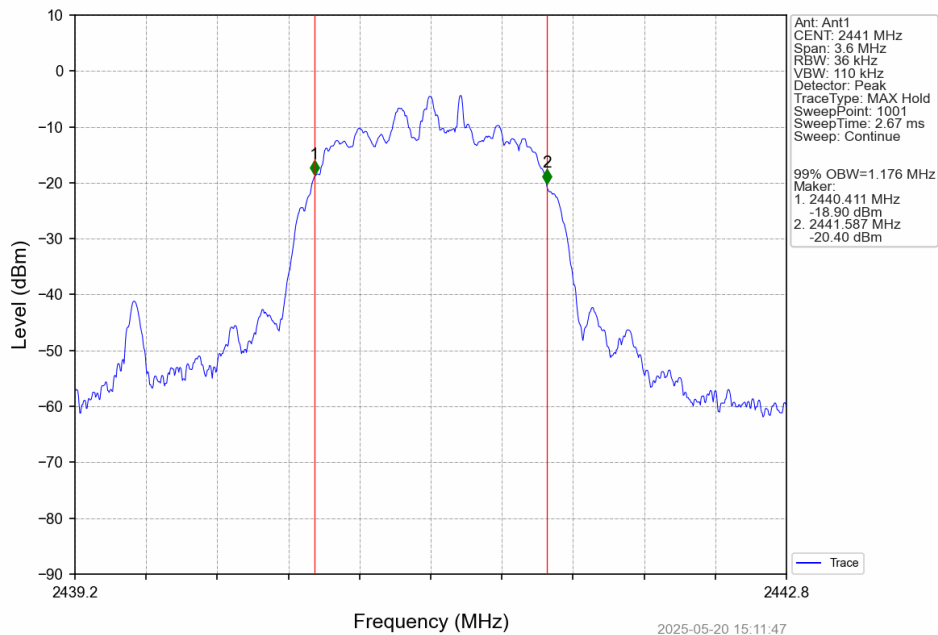
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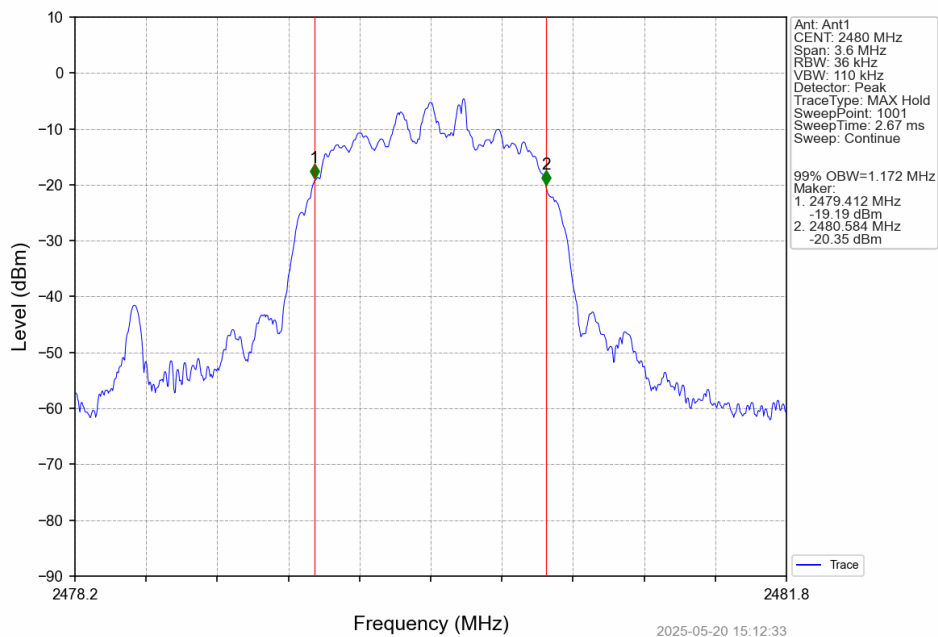
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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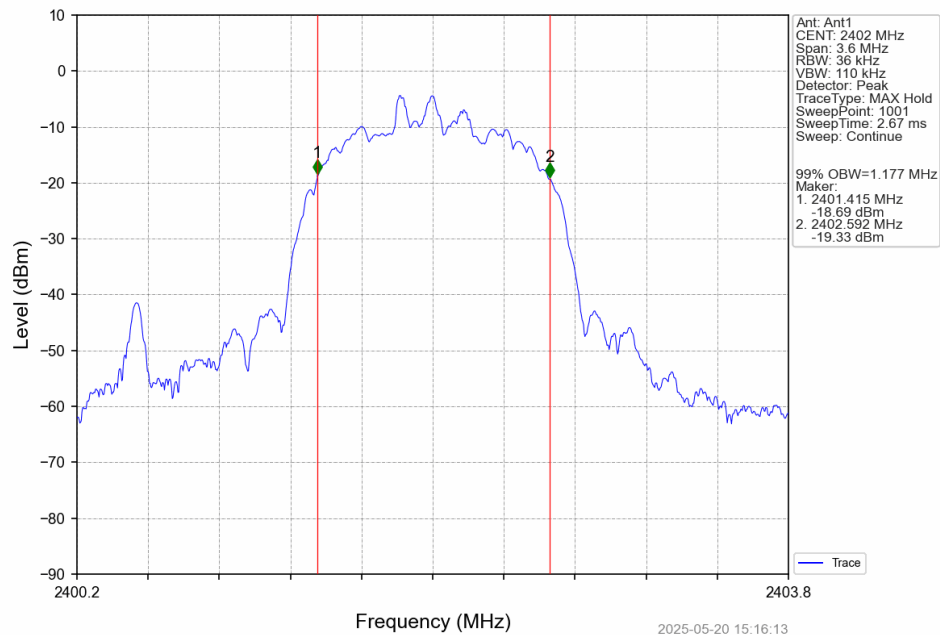
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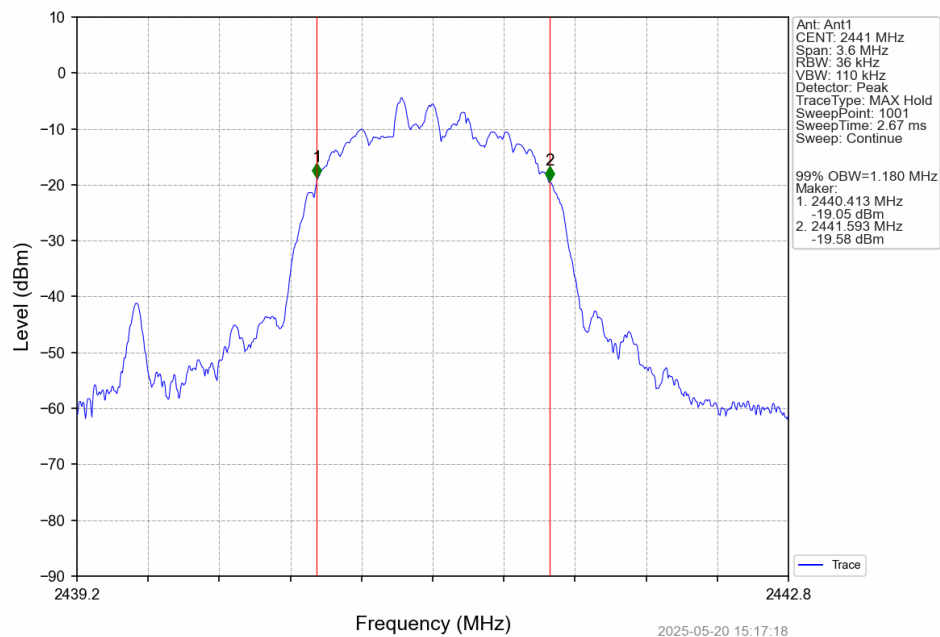
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

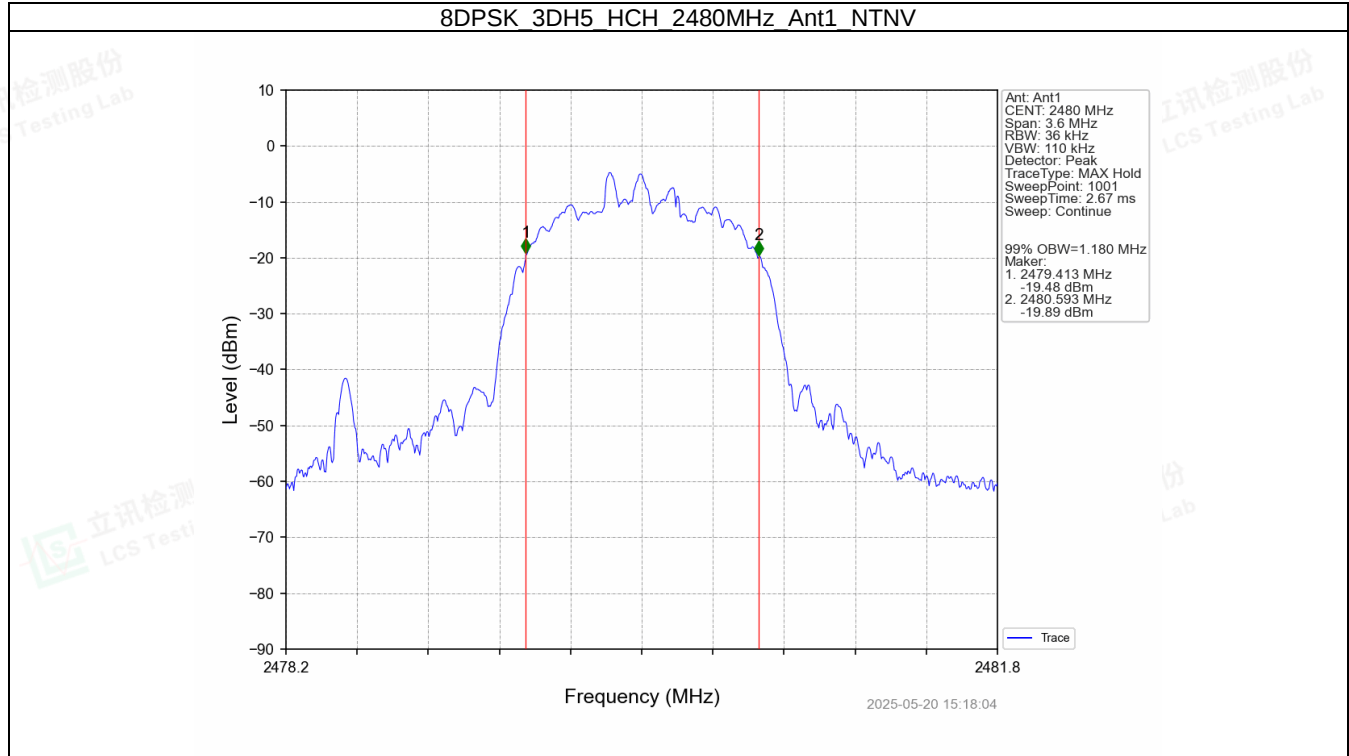


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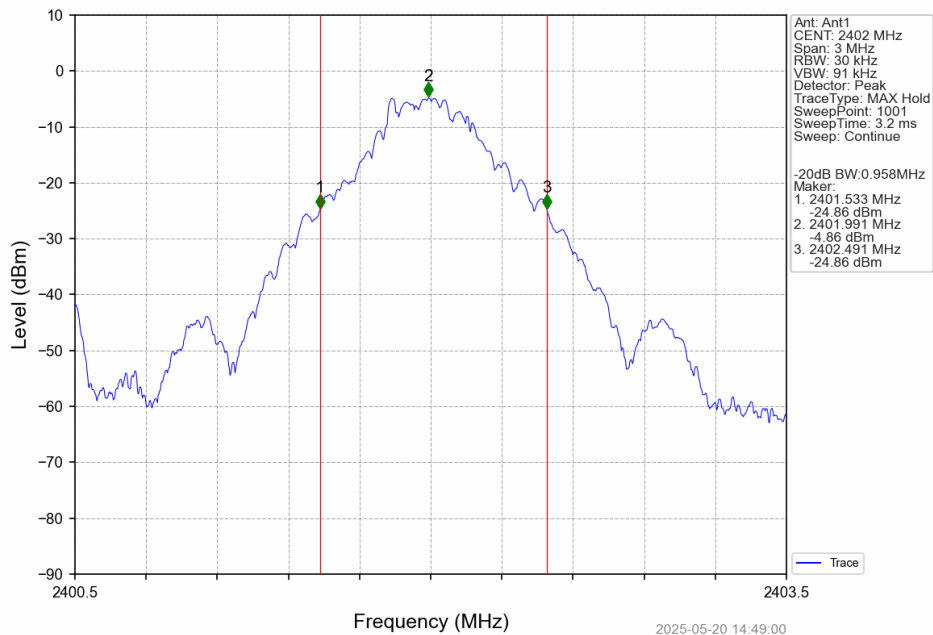
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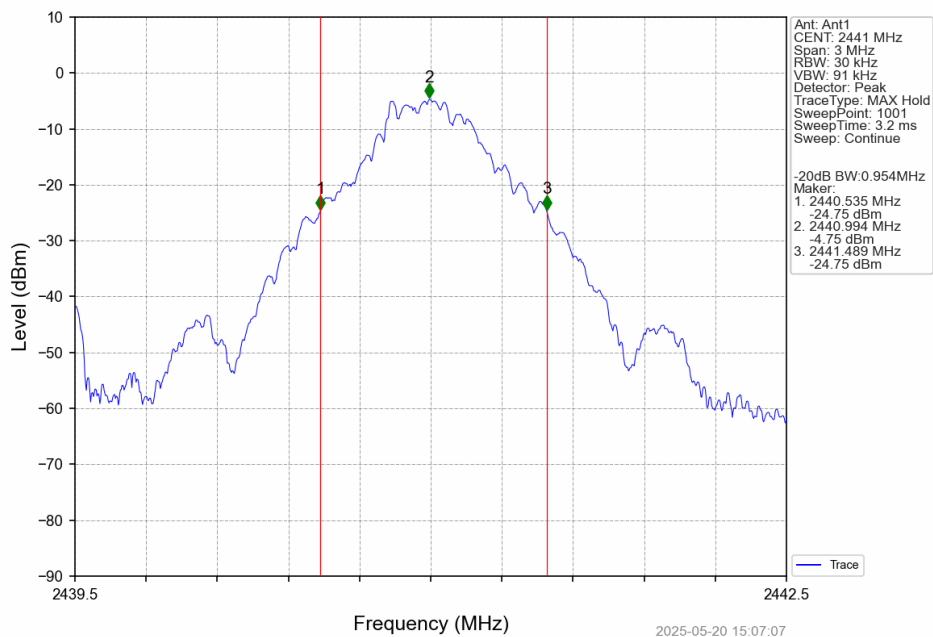
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GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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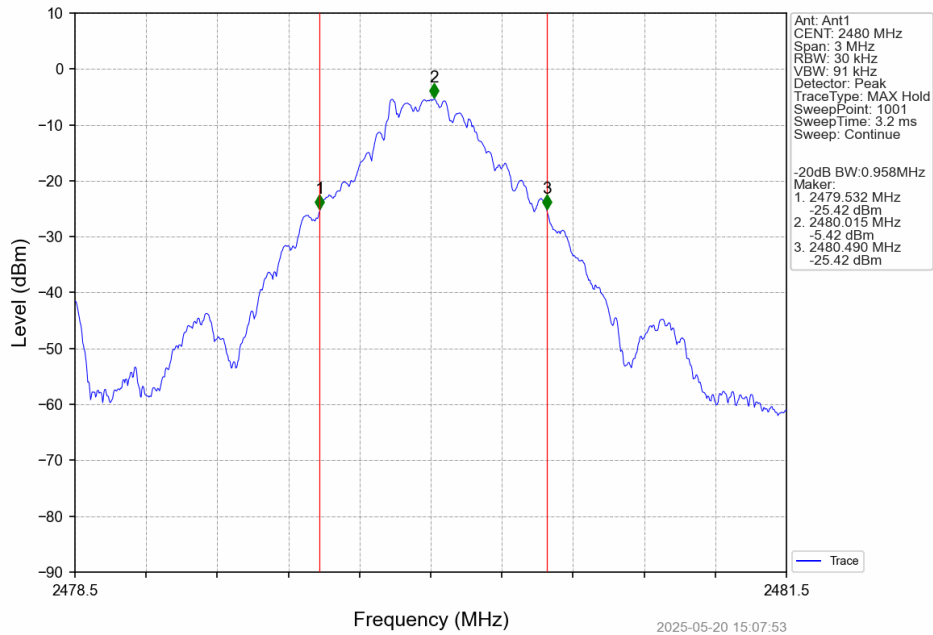
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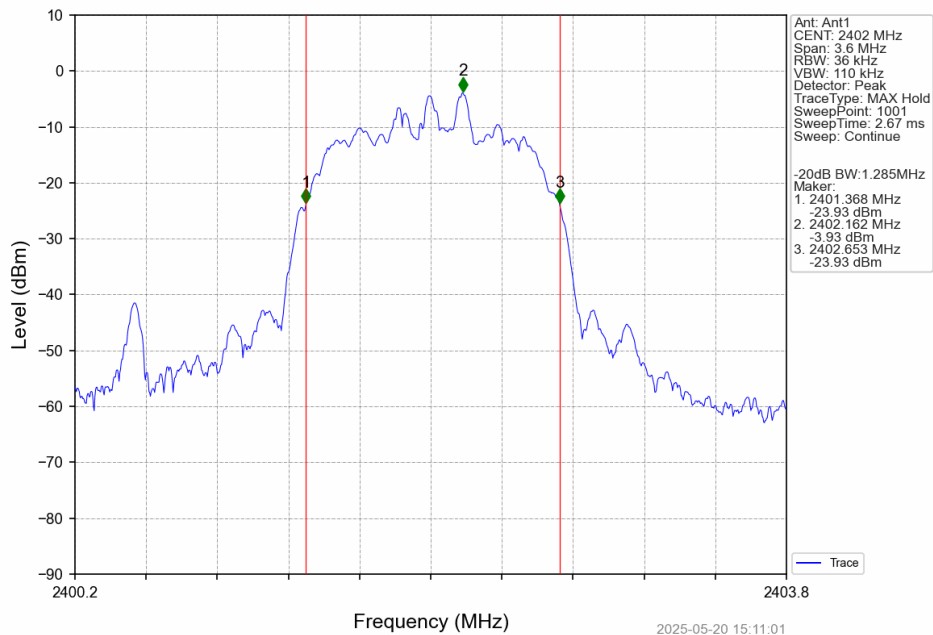
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GFSK DH5 HCH 2480MHz Ant1 NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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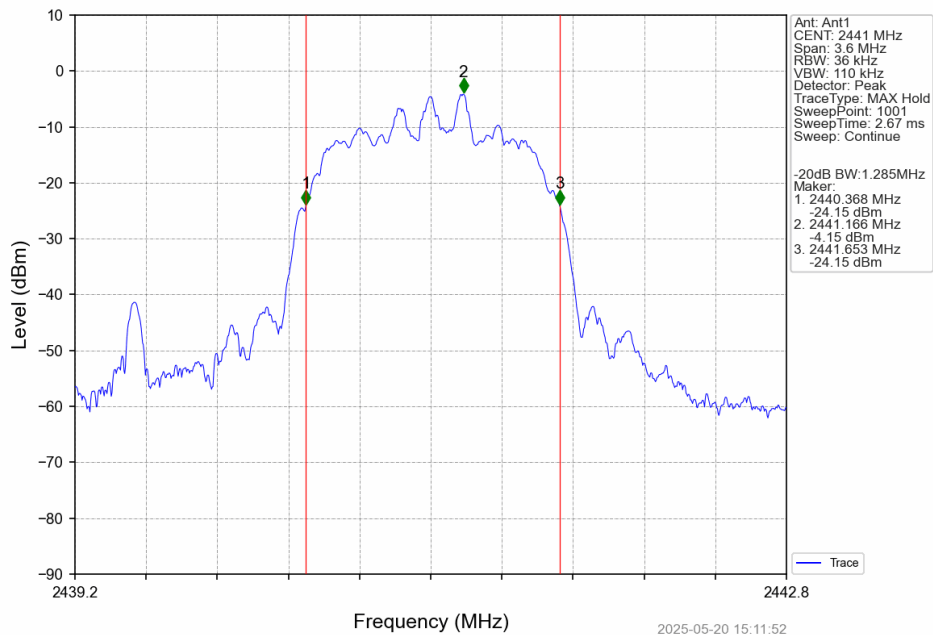
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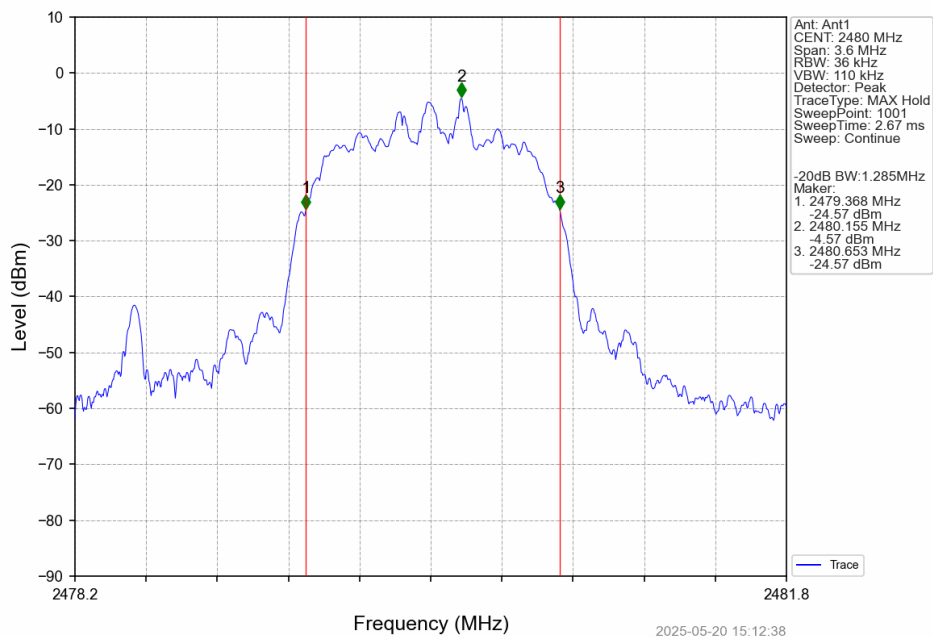
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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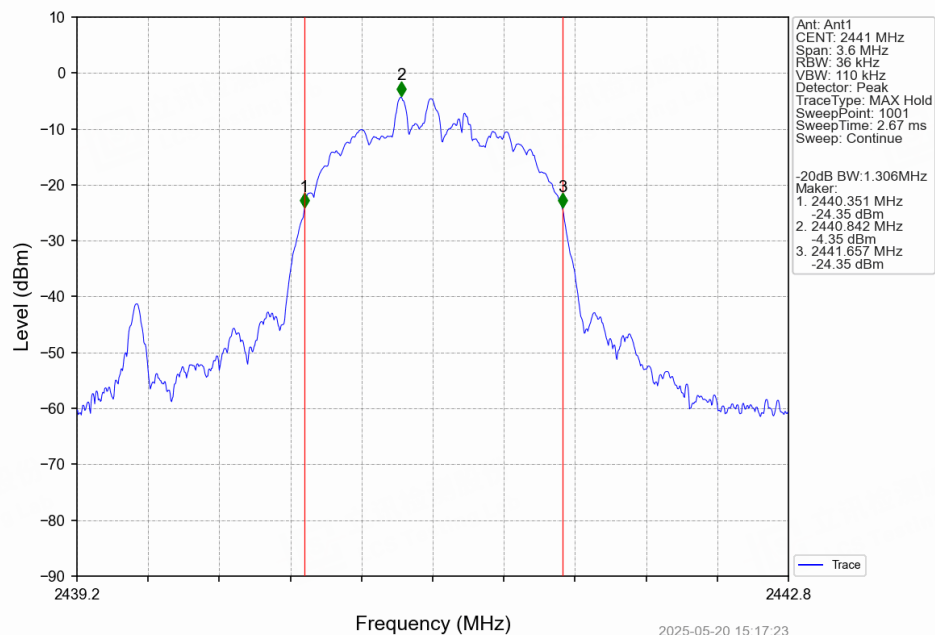
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

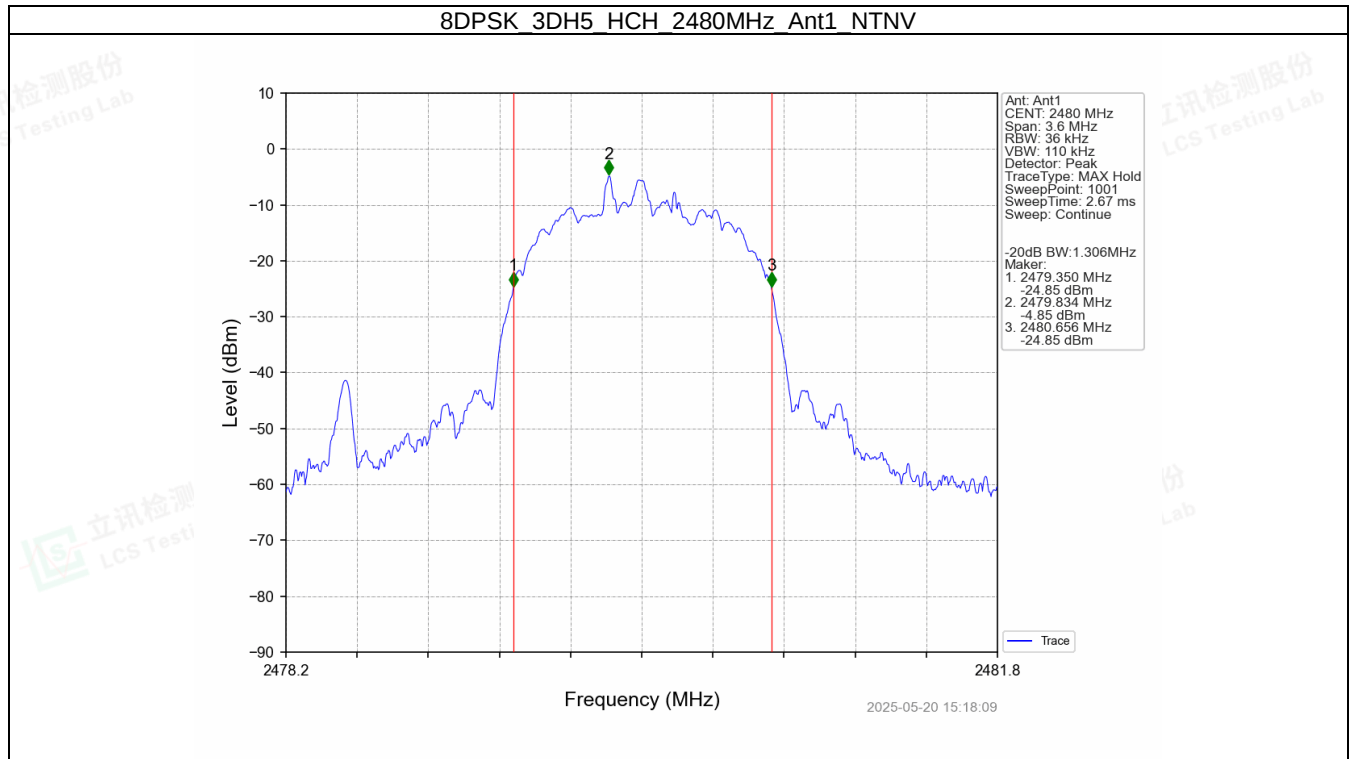


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A.2 Maximum peak Conducted Output Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-2.45	<=30	Pass
		2441	DH5	-2.57	<=30	Pass
		2480	DH5	-2.99	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-1.48	<=20.97	Pass
		2441	2DH5	-1.59	<=20.97	Pass
		2480	2DH5	-1.99	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-1.09	<=20.97	Pass
		2441	3DH5	-1.20	<=20.97	Pass
		2480	3DH5	-1.62	<=20.97	Pass



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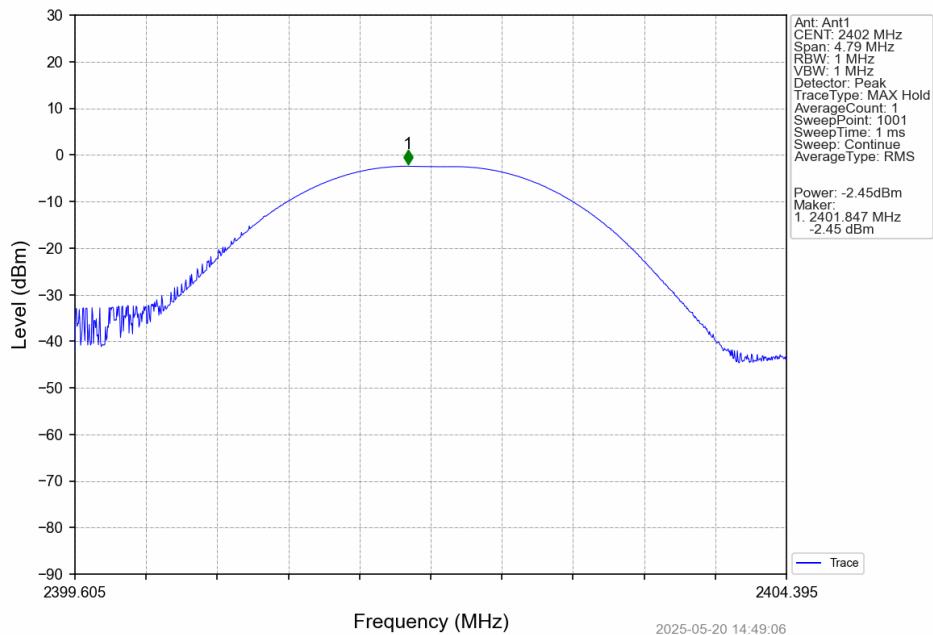
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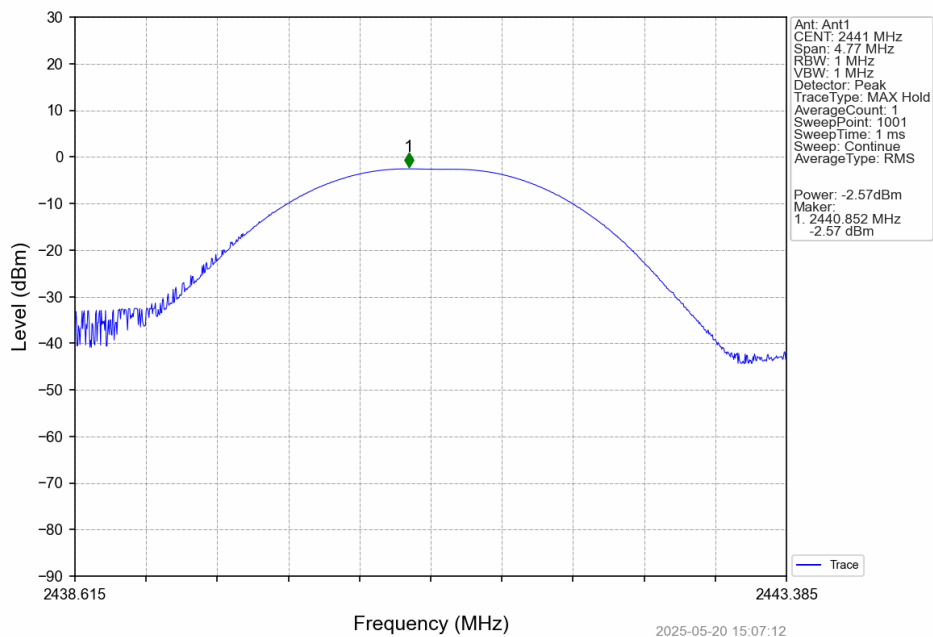
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GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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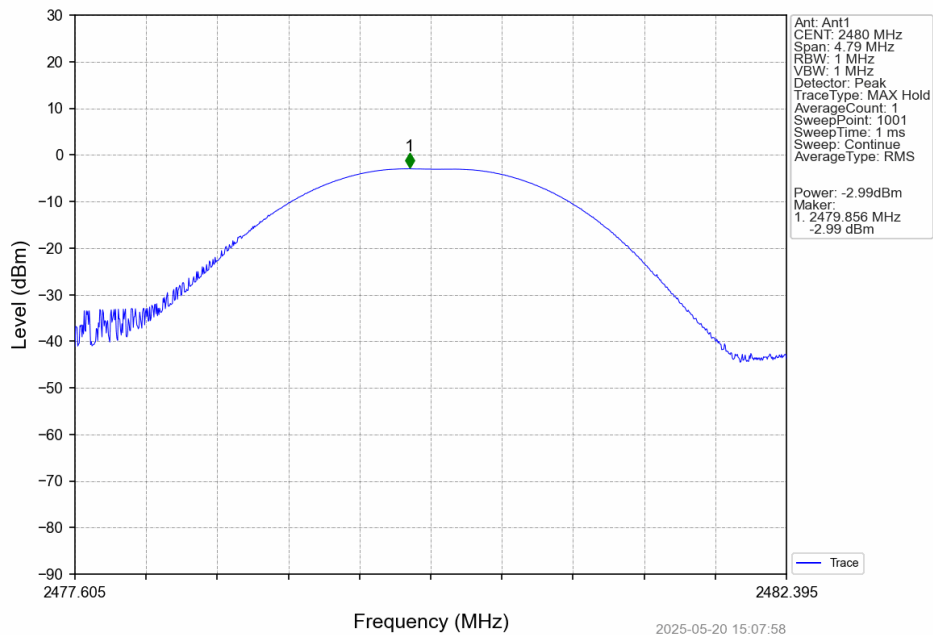
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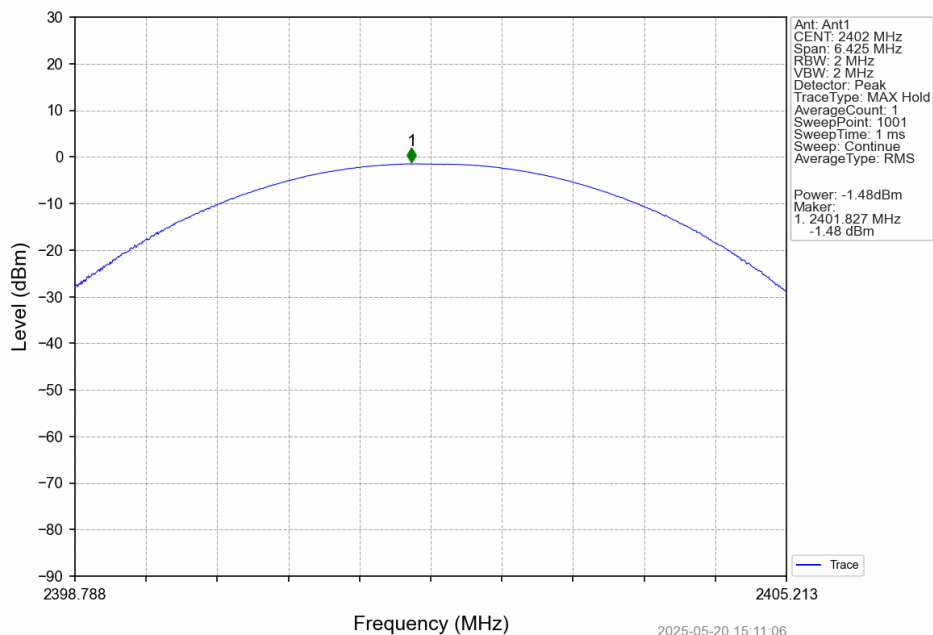
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GFSK DH5 HCH 2480MHz Ant1 NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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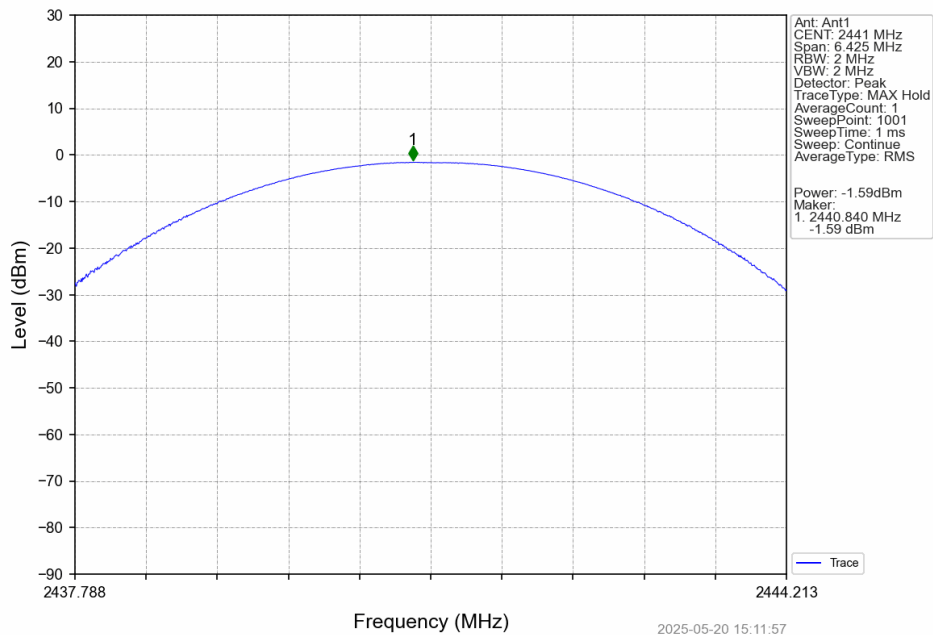
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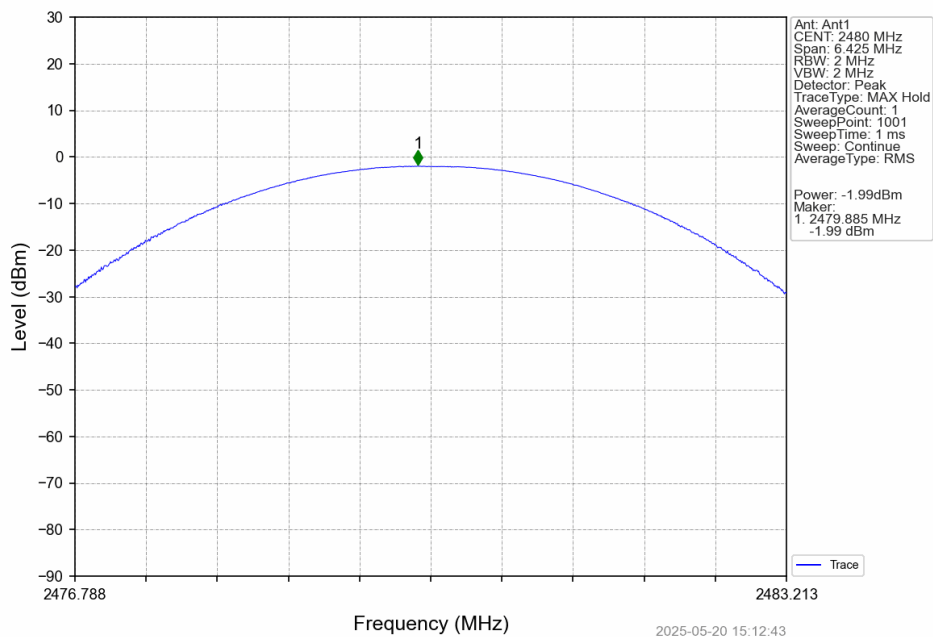
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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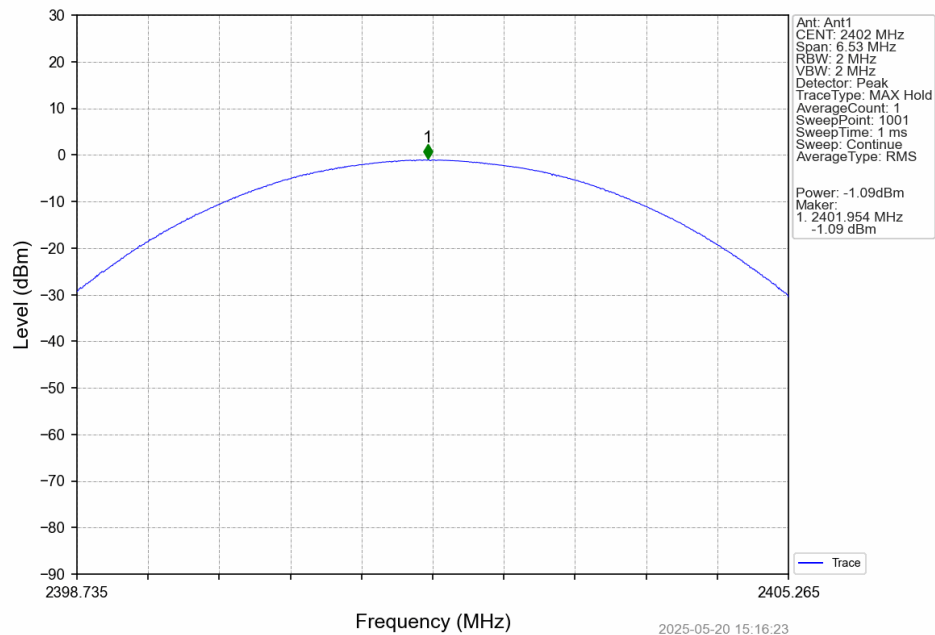
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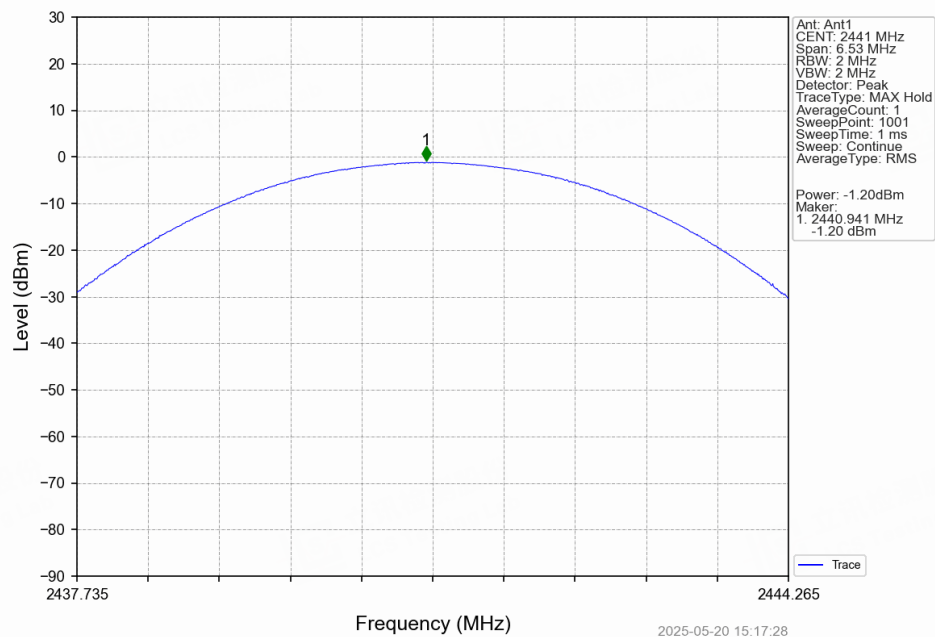
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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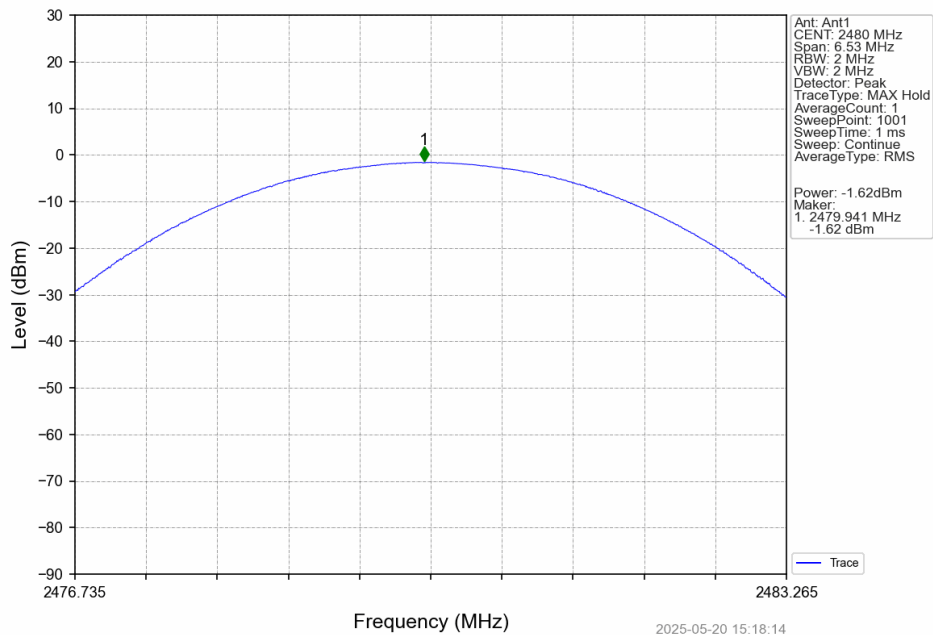
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8DPSK 3DH5 HCH 2480MHz Ant1 NTN



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A.3 Carrier Frequency Separation

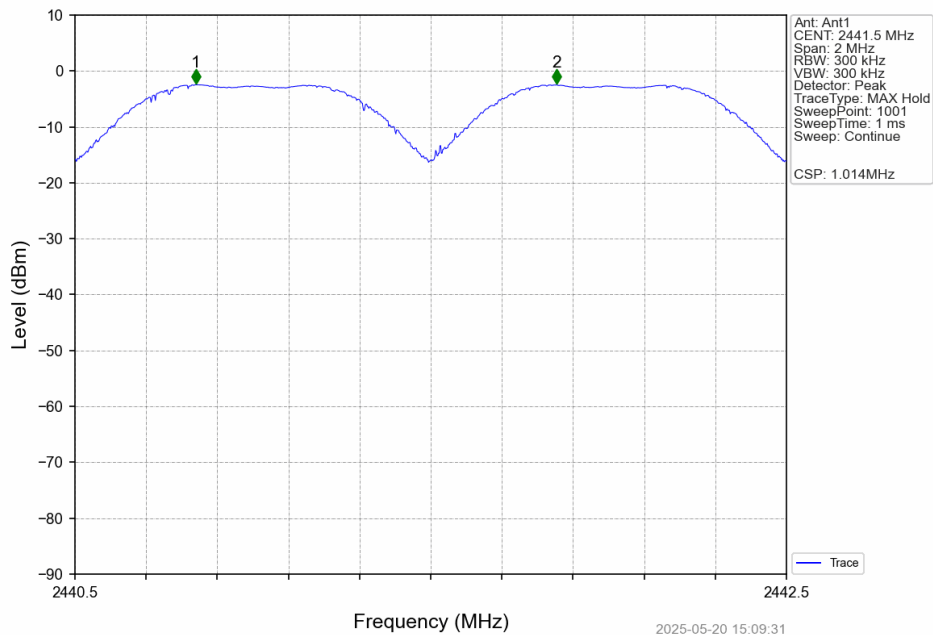
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.014	0.958	0.639	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.285	0.857	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.306	0.871	Pass



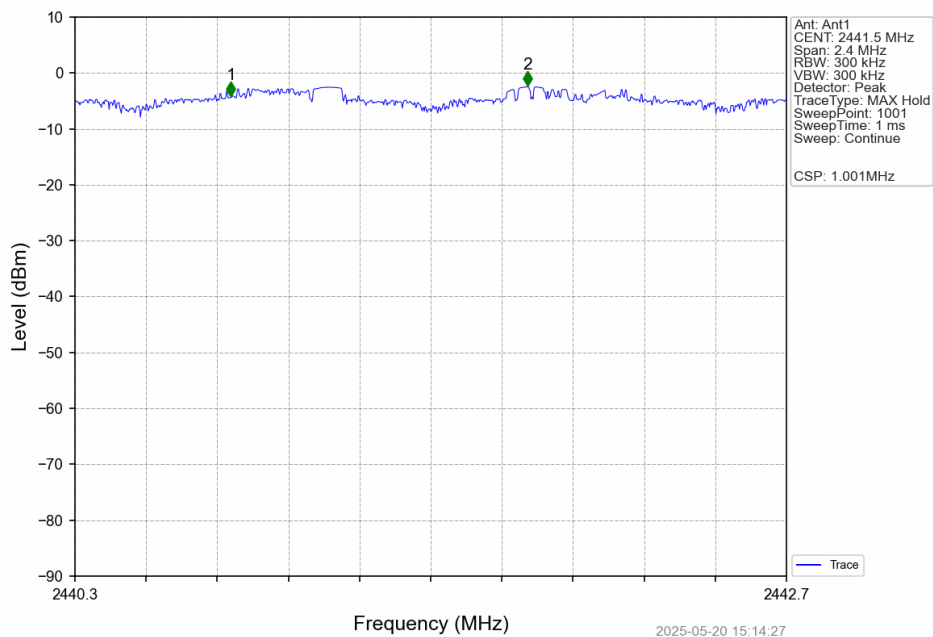
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GFSK DH5 HOPP Ant1 NTN



Pi/4DQPSK_2DH5_HOPP_Ant1_NTN

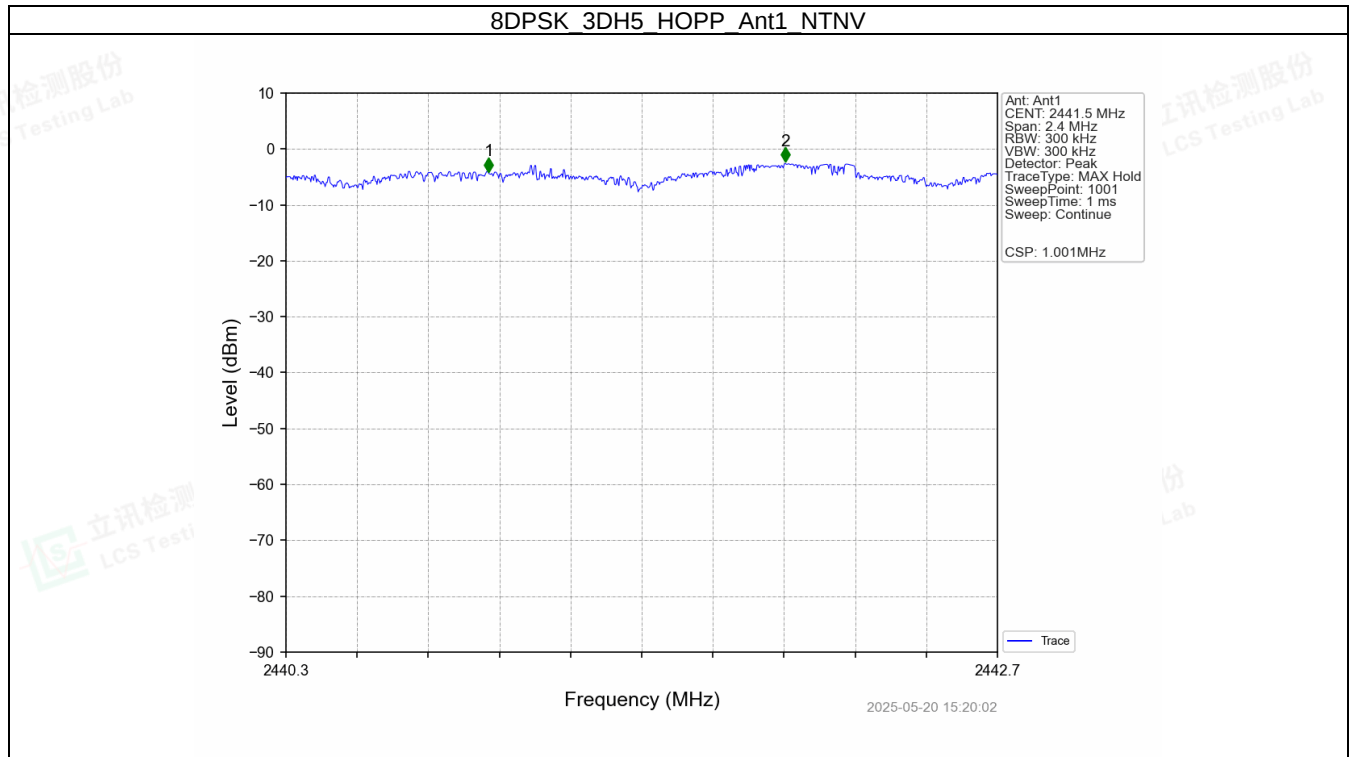


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A.5 Number of Hopping Frequencies

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



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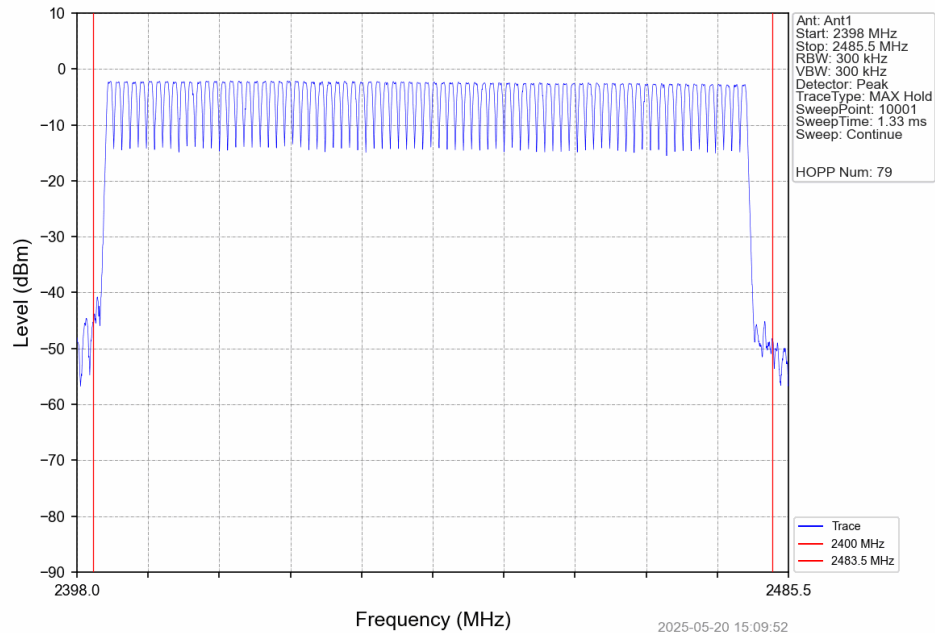
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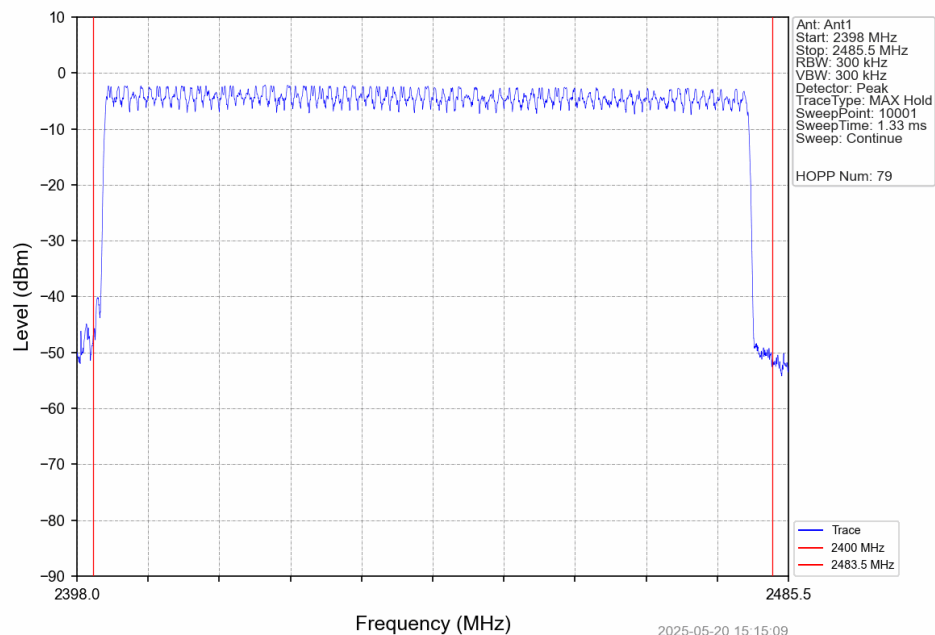
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GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

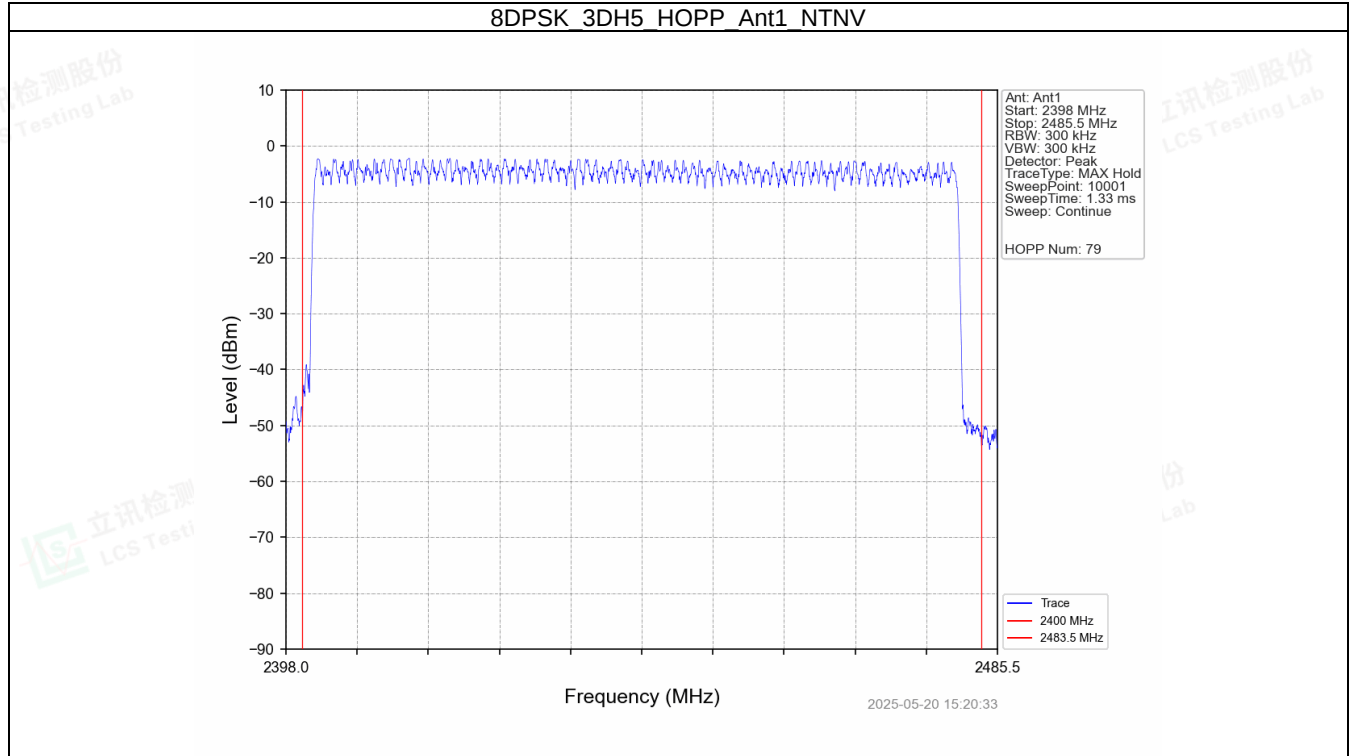


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A.4 Time of Occupancy (Dwell Time)

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	DH5	2.890	31.600	106	306.340	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	2.896	31.600	107	309.872	<=400	Pass
8DPSK	SISO	HOPP	3DH5	2.892	31.600	106	306.552	<=400	Pass



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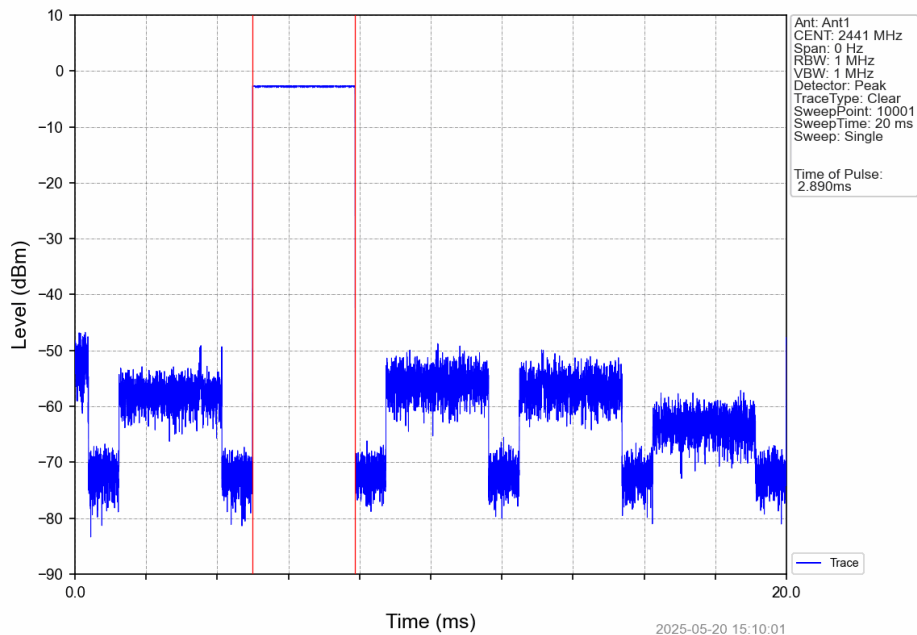
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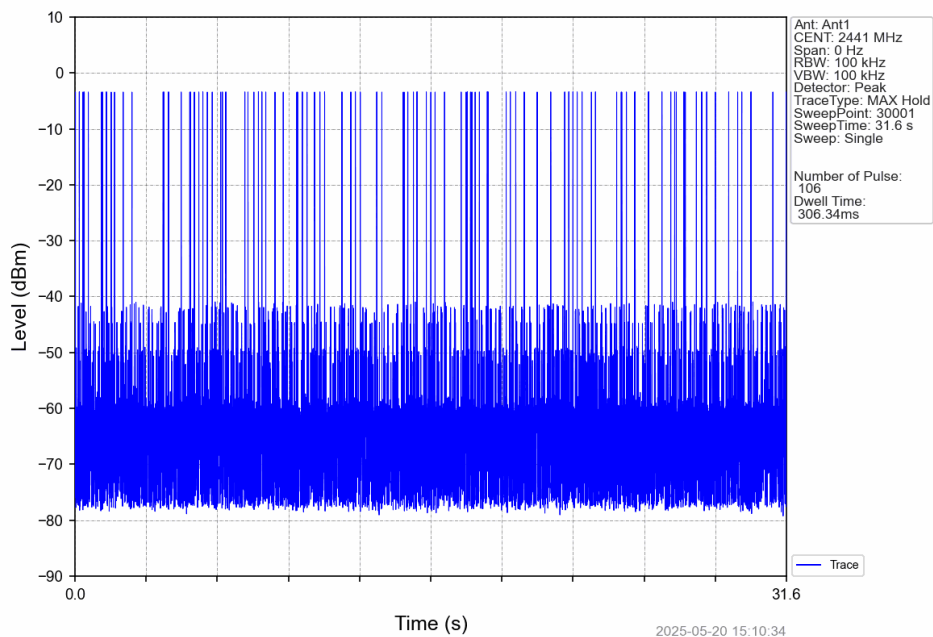
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GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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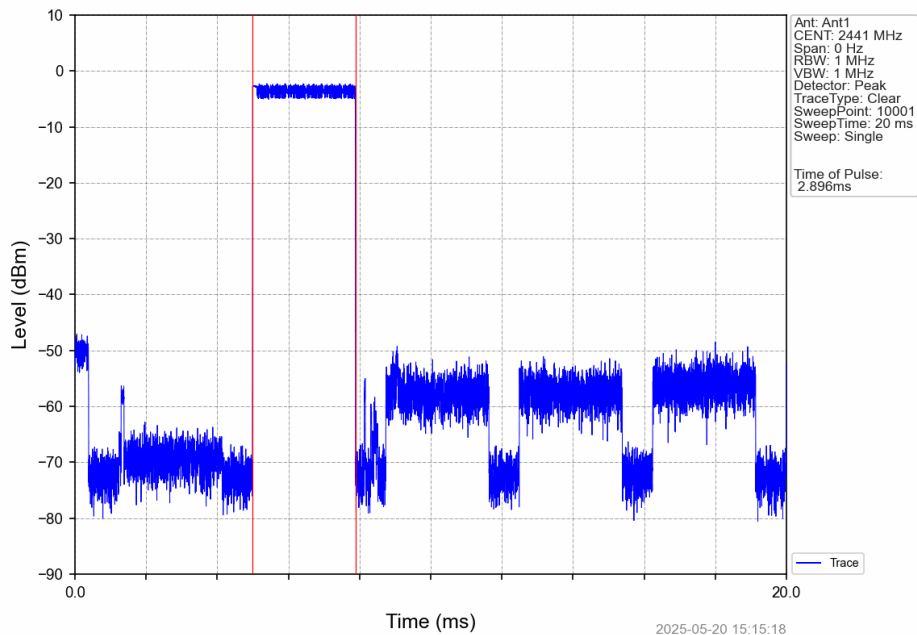
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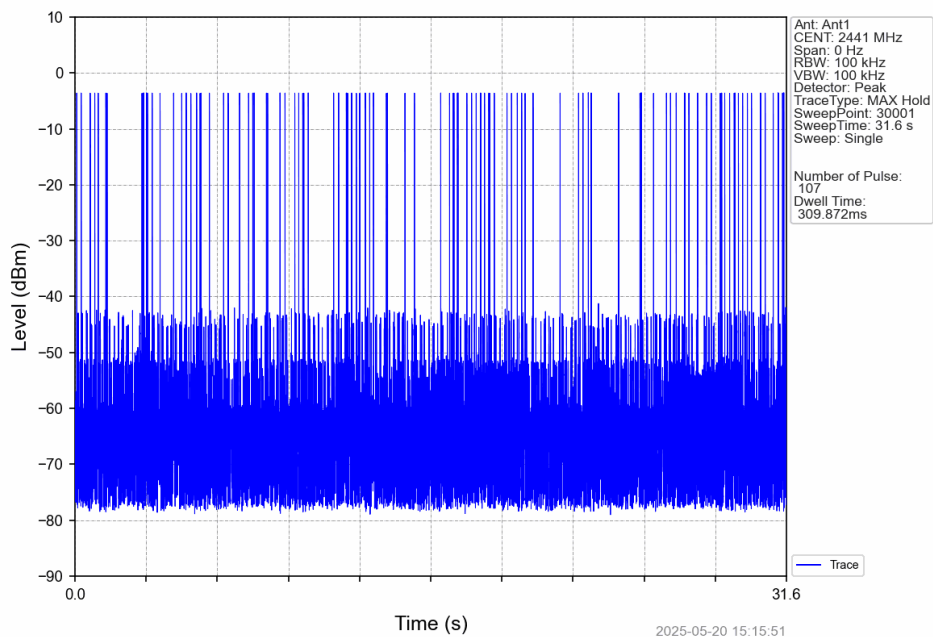
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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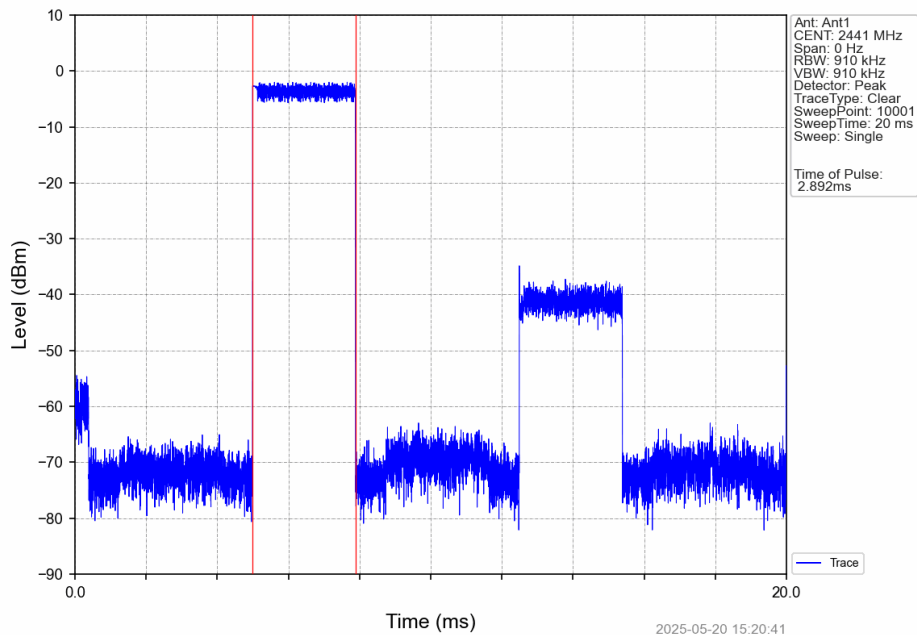
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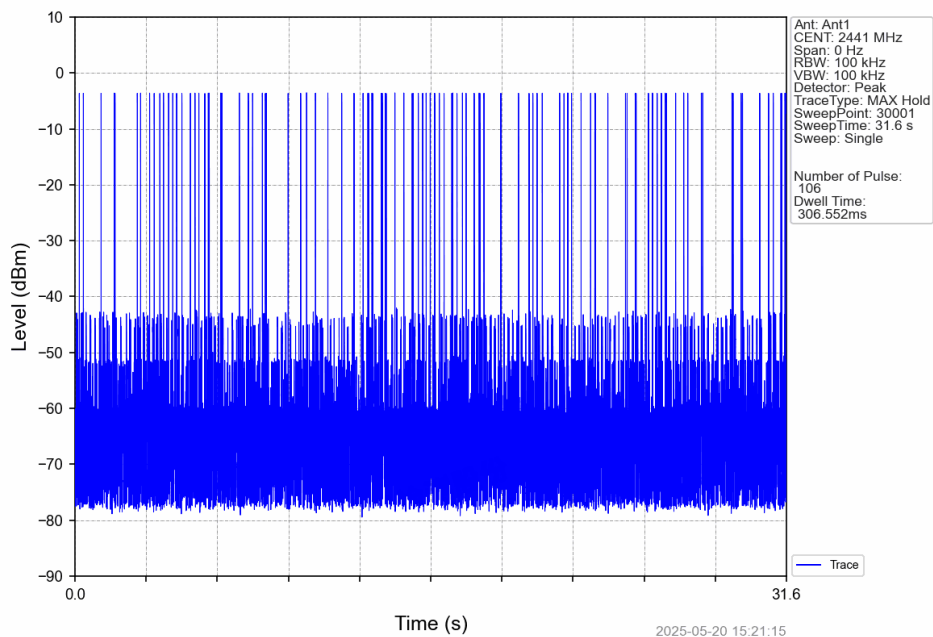
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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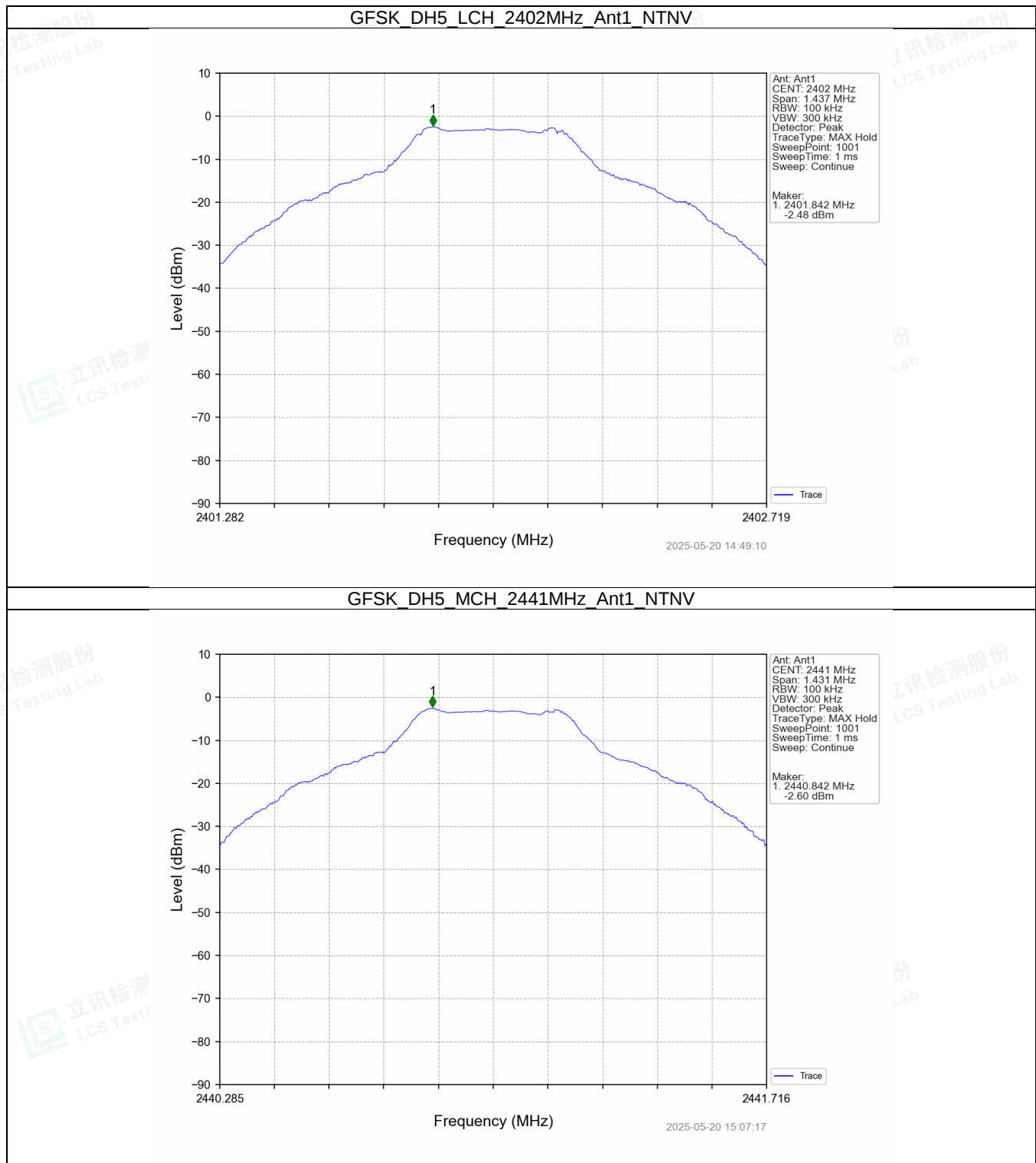
A.6 Band Edge

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-2.48	-22.48	Pass
		2441	DH5	1	-2.48	-22.48	Pass
		2480	DH5	1	-2.48	-22.48	Pass
		HOPP	DH5	1	-2.48	-22.48	Pass
					-2.48	-22.48	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-2.56	-22.56	Pass
		2441	2DH5	1	-2.56	-22.56	Pass
		2480	2DH5	1	-2.56	-22.56	Pass
		HOPP	2DH5	1	-2.56	-22.56	Pass
					-2.56	-22.56	Pass
8DPSK	SISO	2402	3DH5	1	-2.48	-22.48	Pass
		2441	3DH5	1	-2.48	-22.48	Pass
		2480	3DH5	1	-2.48	-22.48	Pass
		HOPP	3DH5	1	-2.48	-22.48	Pass
					-2.48	-22.48	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.							





Ref



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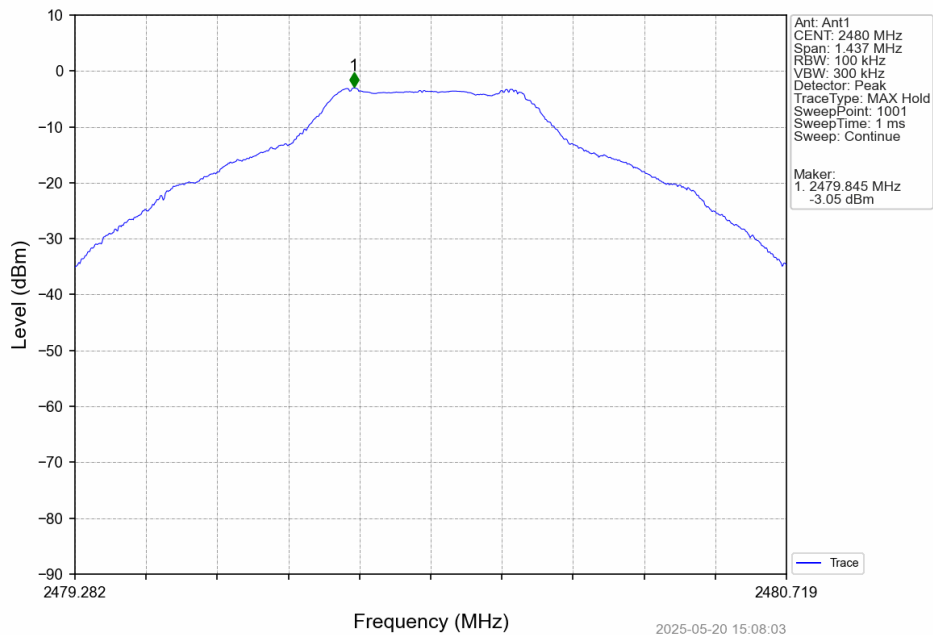
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,
Baoan District, Shenzhen, 518000, China

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

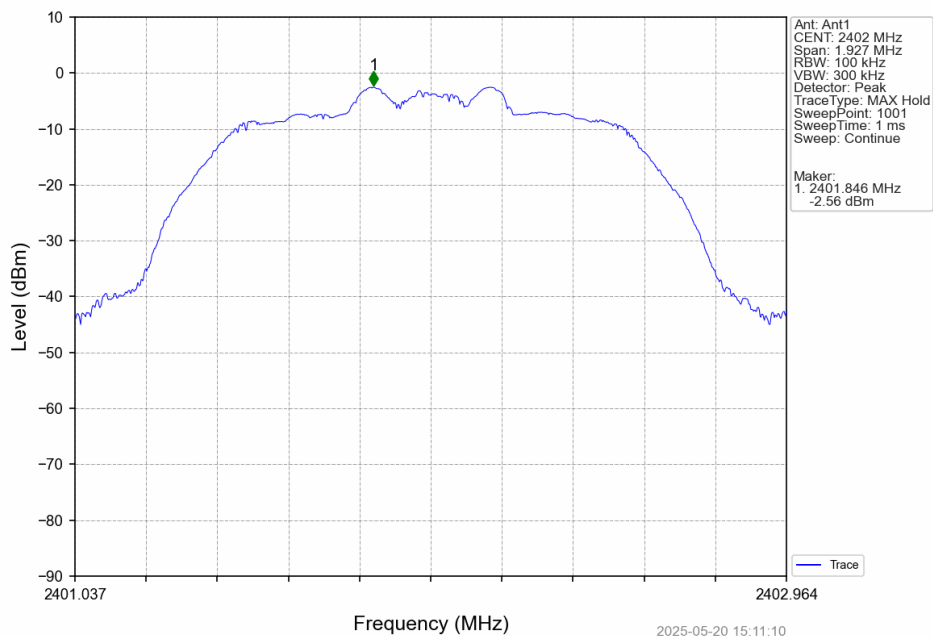
Scan code to check authenticity



GFSK DH5 HCH 2480MHz Ant1 NTN



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTN



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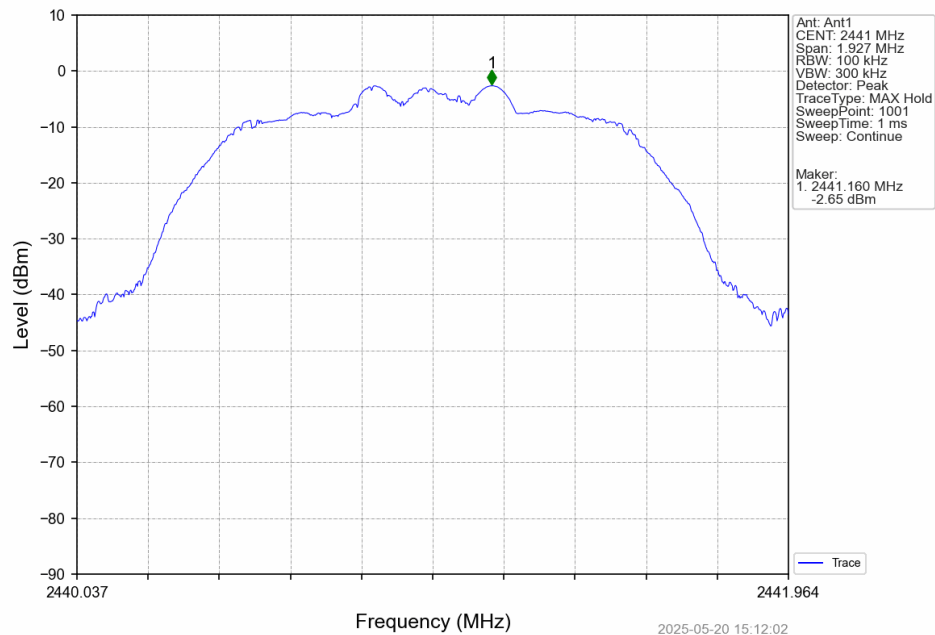
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

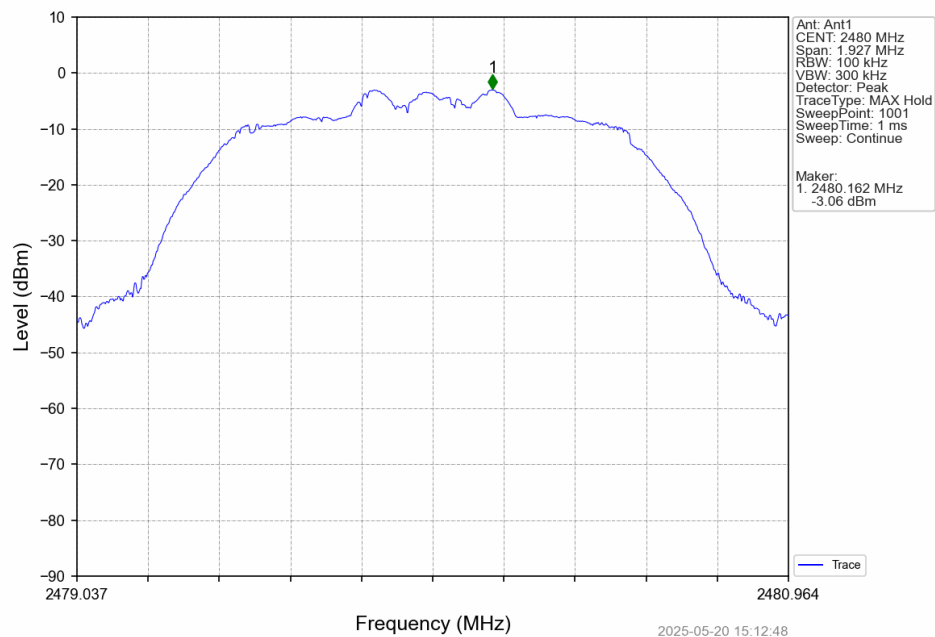
Scan code to check authenticity



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

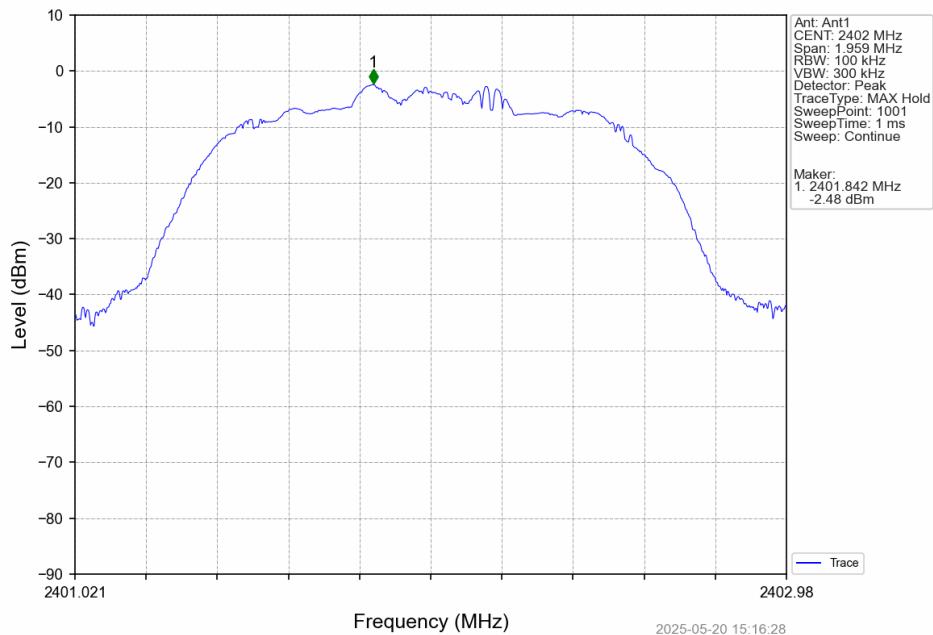
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,
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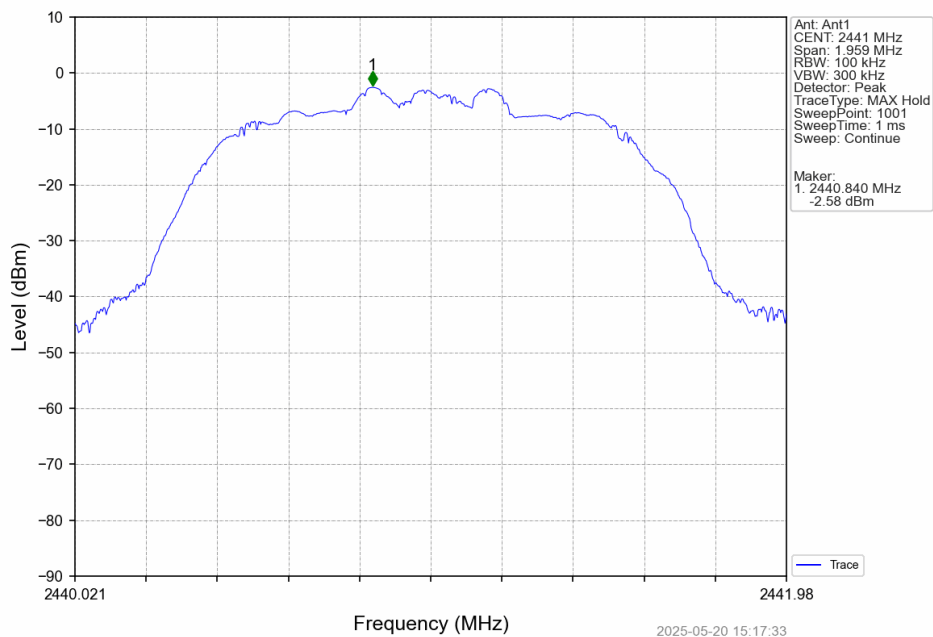
Scan code to check authenticity



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

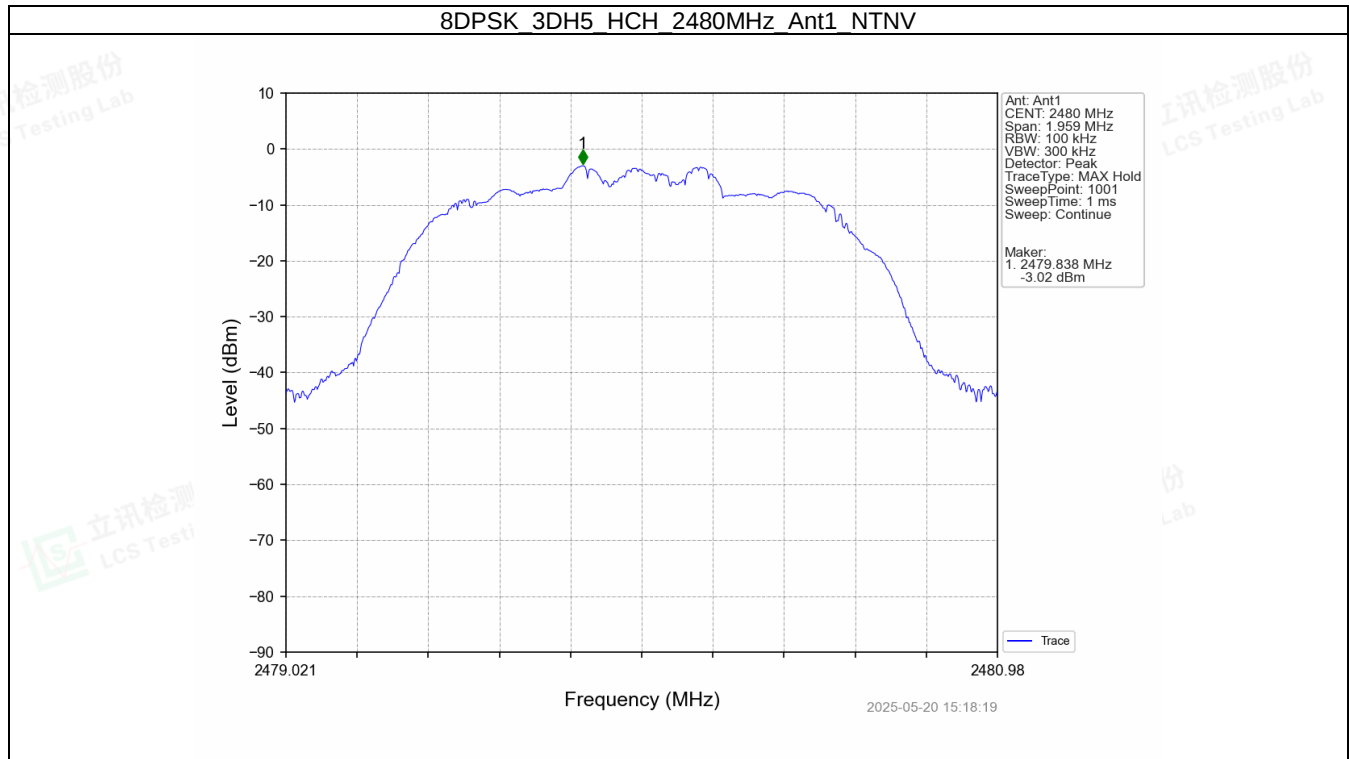


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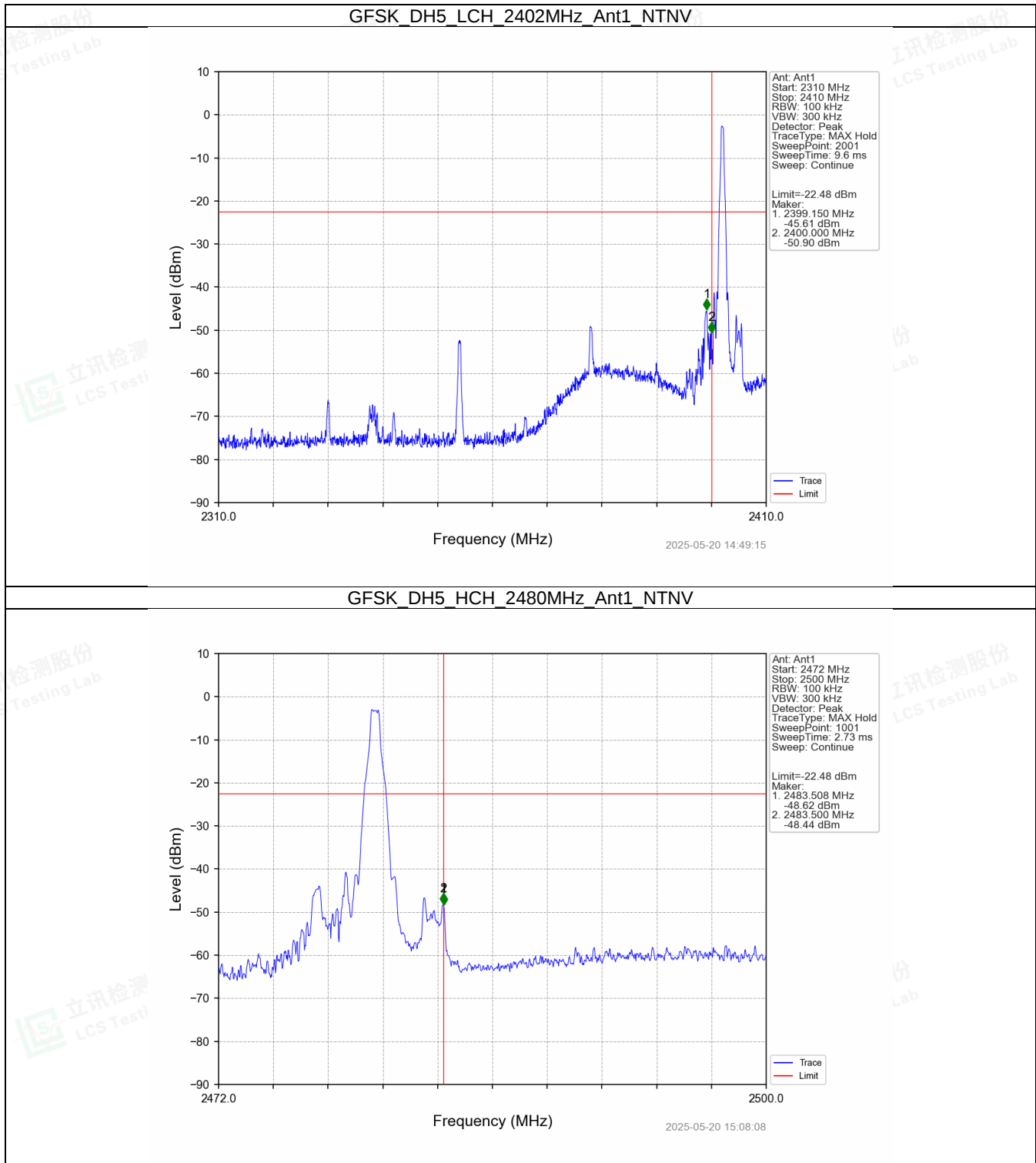
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,
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Band Edge



Shenzhen LCS Compliance Testing Laboratory Ltd.

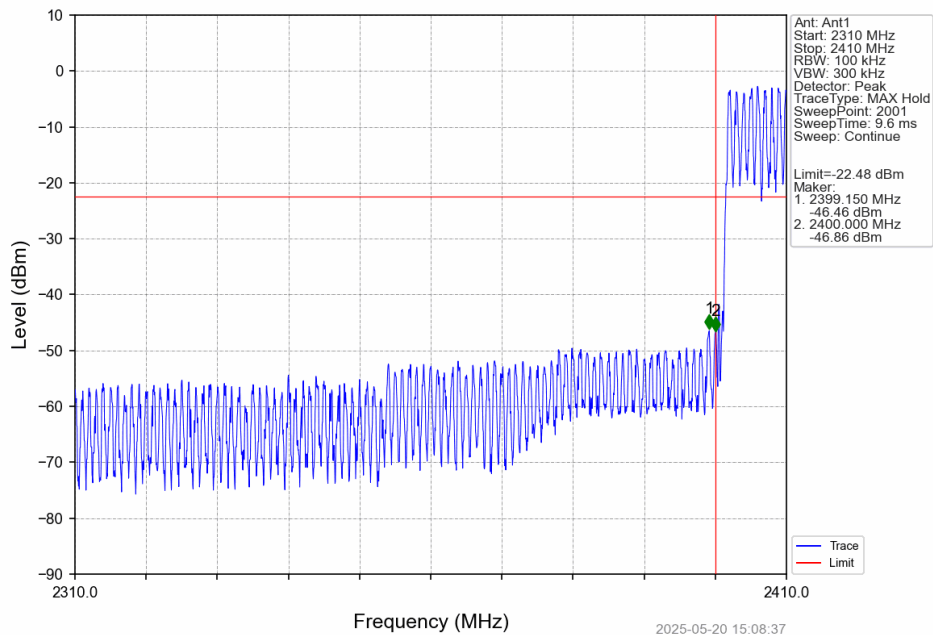
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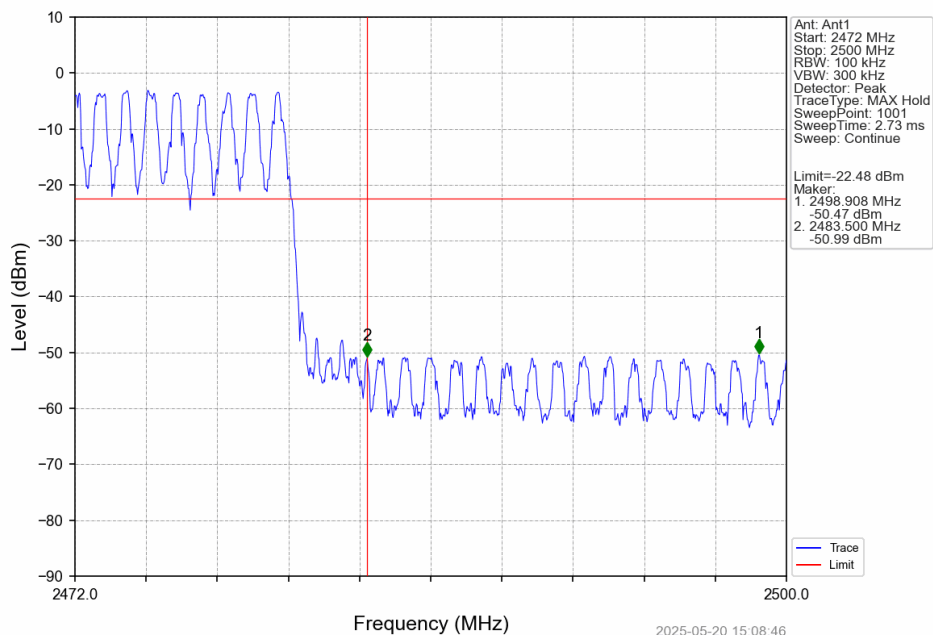
Scan code to check authenticity



GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

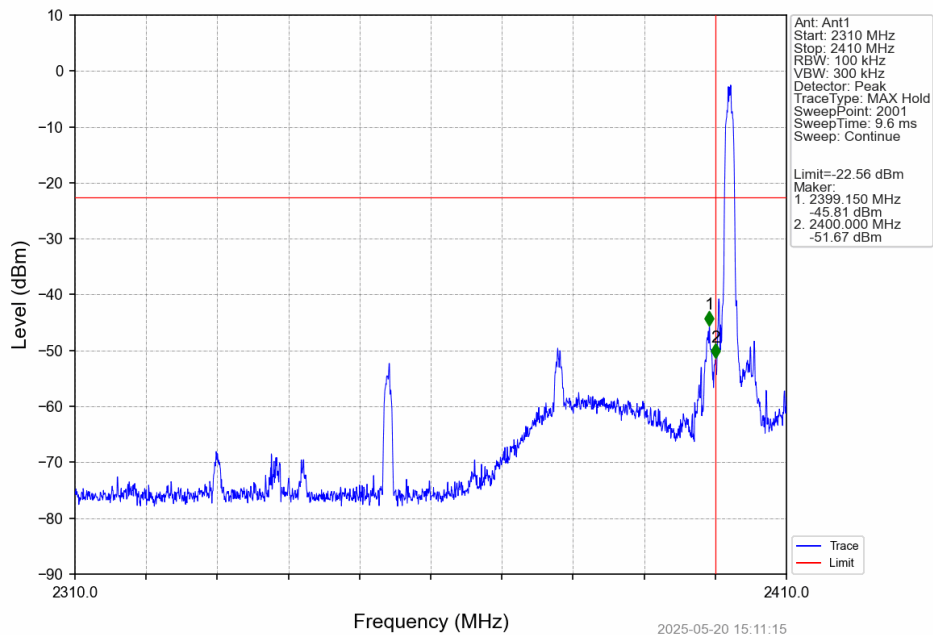
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

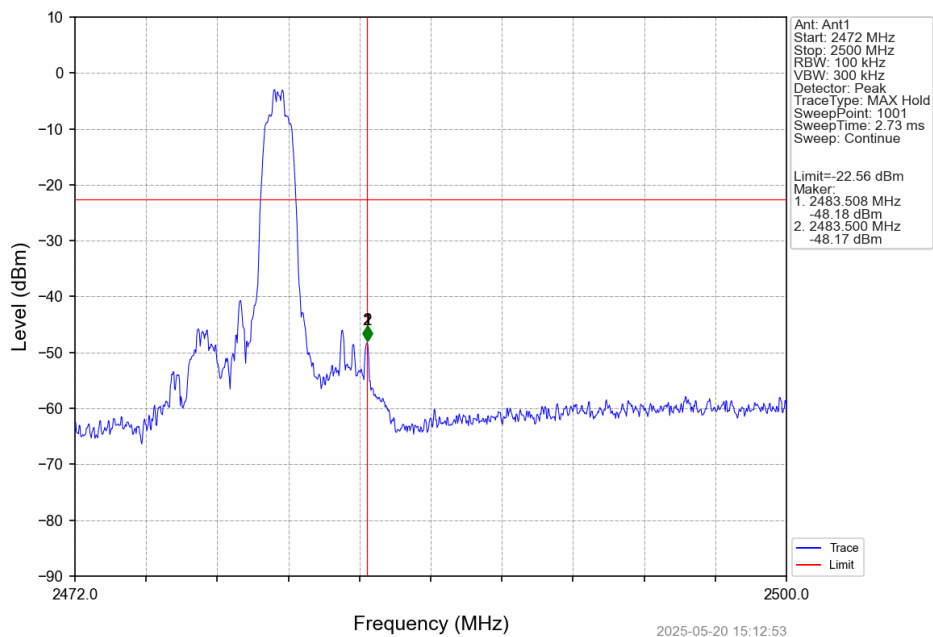
Scan code to check authenticity



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

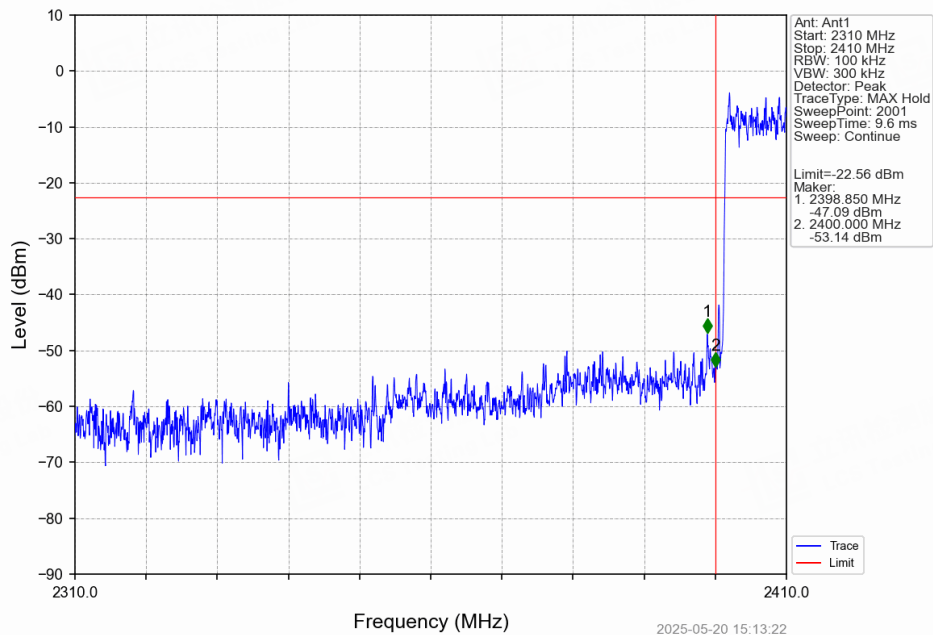
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

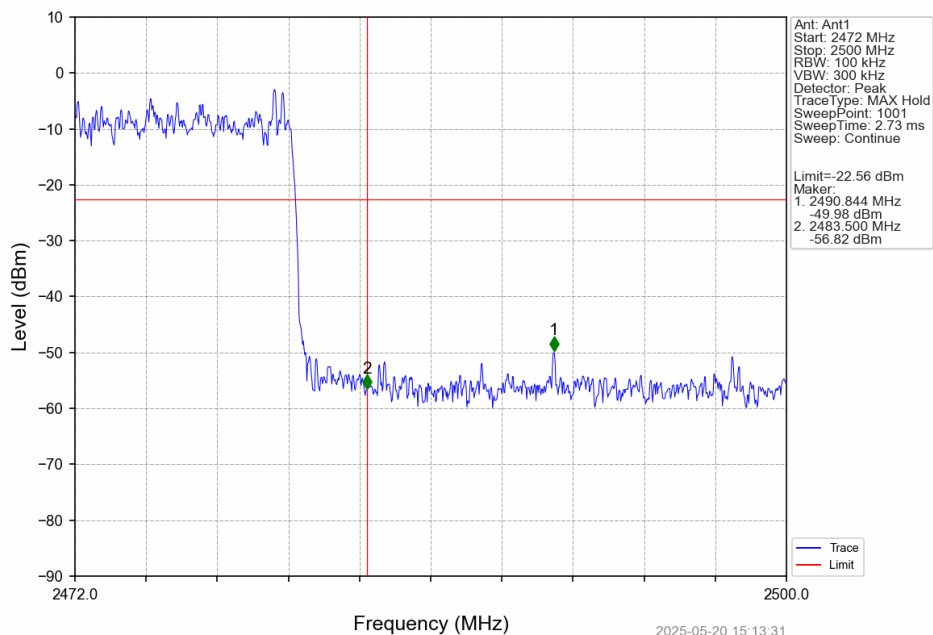
Scan code to check authenticity



Pi/4DQPSK 2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

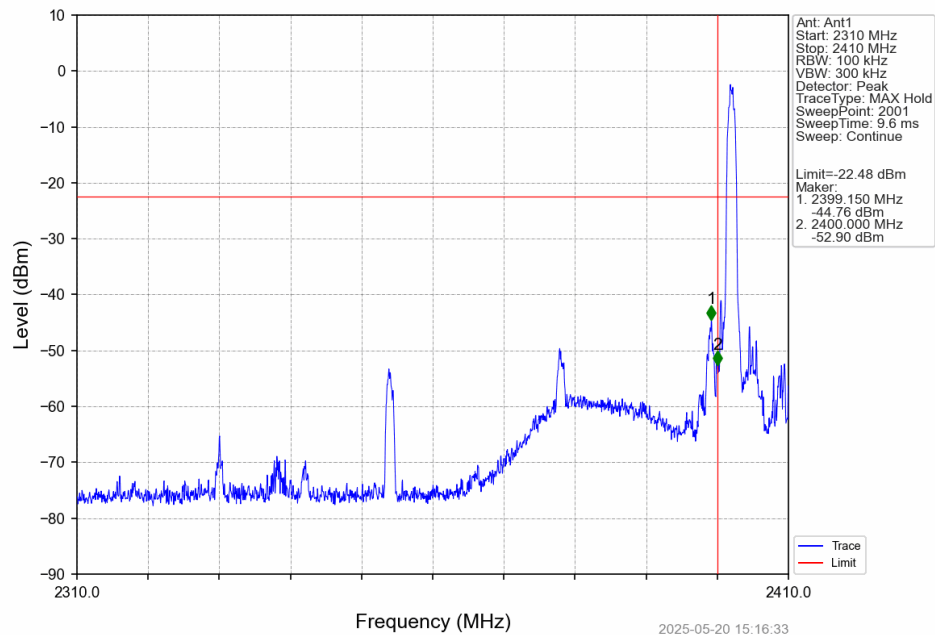
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

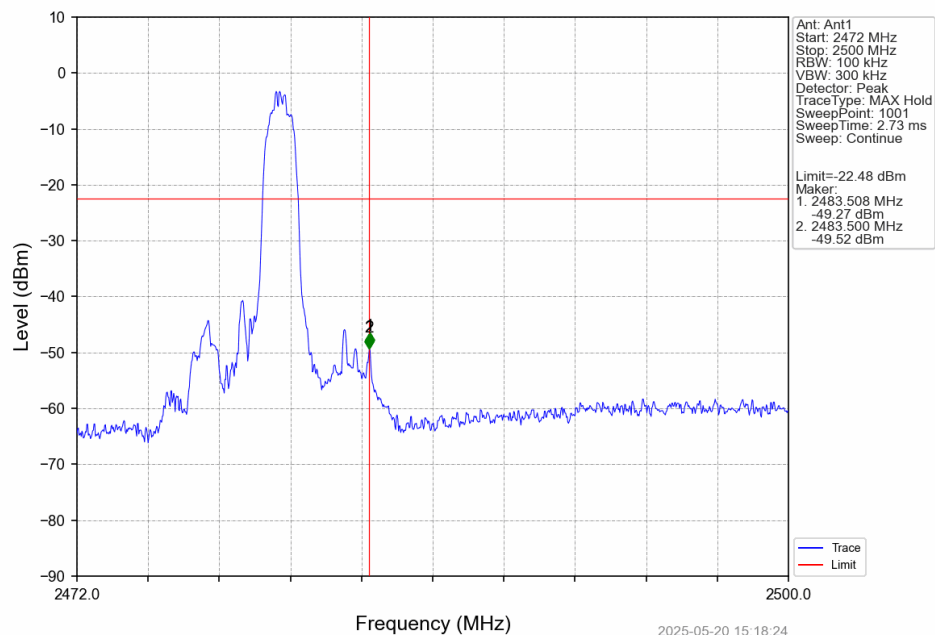
Scan code to check authenticity



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

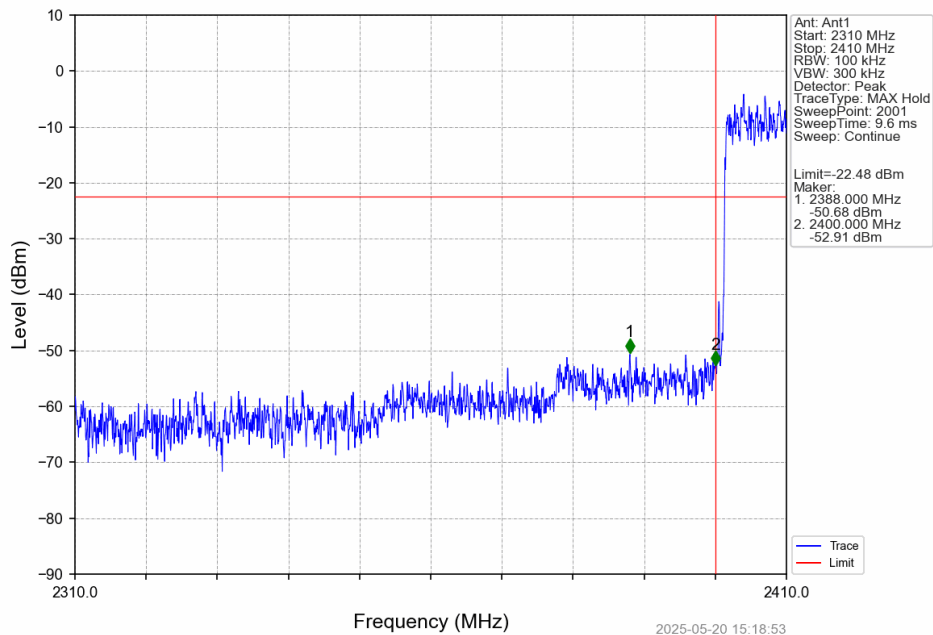
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

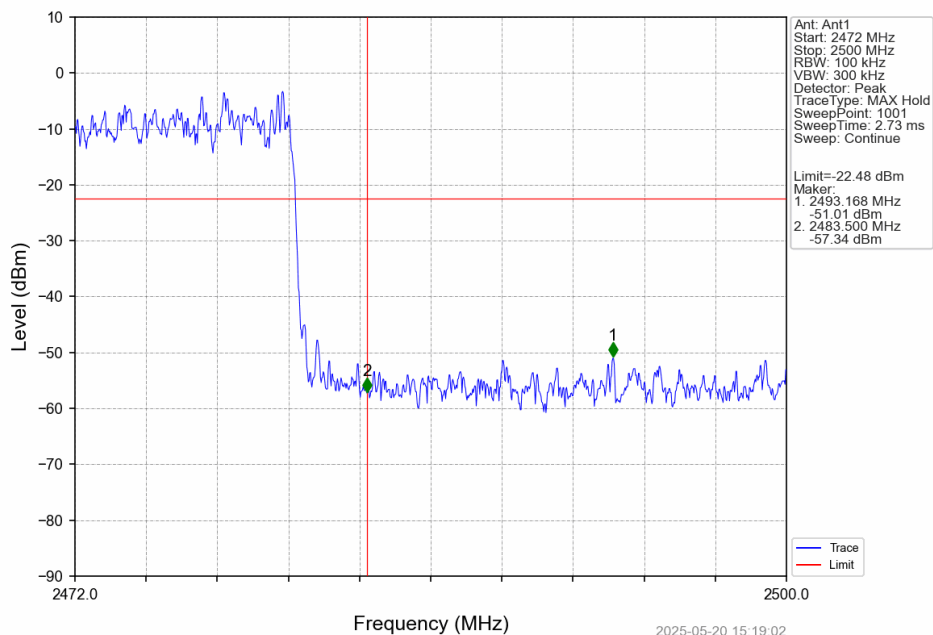
Scan code to check authenticity



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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A.7 Conducted RF Spurious Emission

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-2.48
		2441	DH5	1	-2.60
		2480	DH5	1	-3.05
Pi/4DQPSK	SISO	2402	2DH5	1	-2.56
		2441	2DH5	1	-2.65
		2480	2DH5	1	-3.06
8DPSK	SISO	2402	3DH5	1	-2.48
		2441	3DH5	1	-2.58
		2480	3DH5	1	-3.02

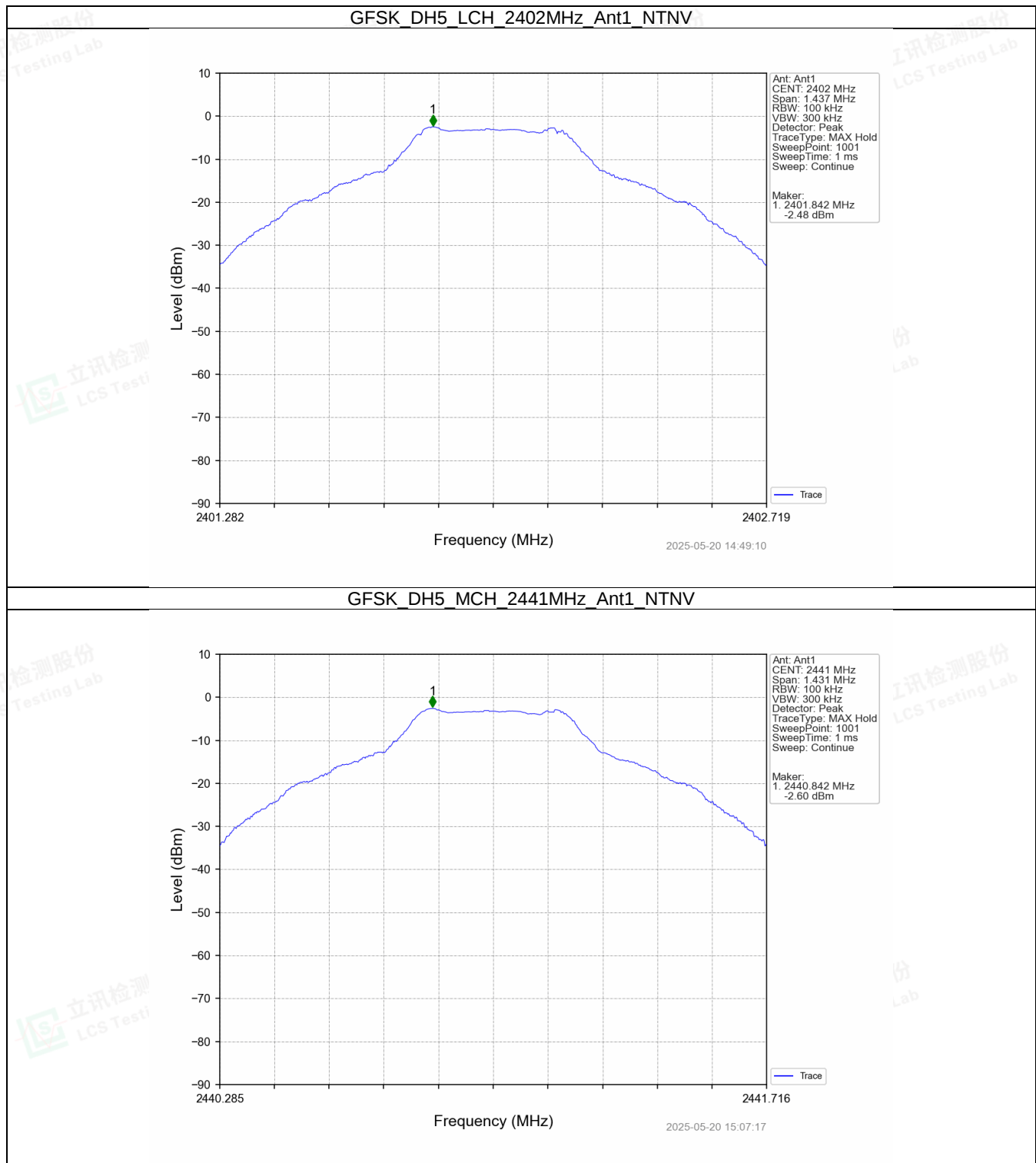
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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Ref



Shenzhen LCS Compliance Testing Laboratory Ltd.

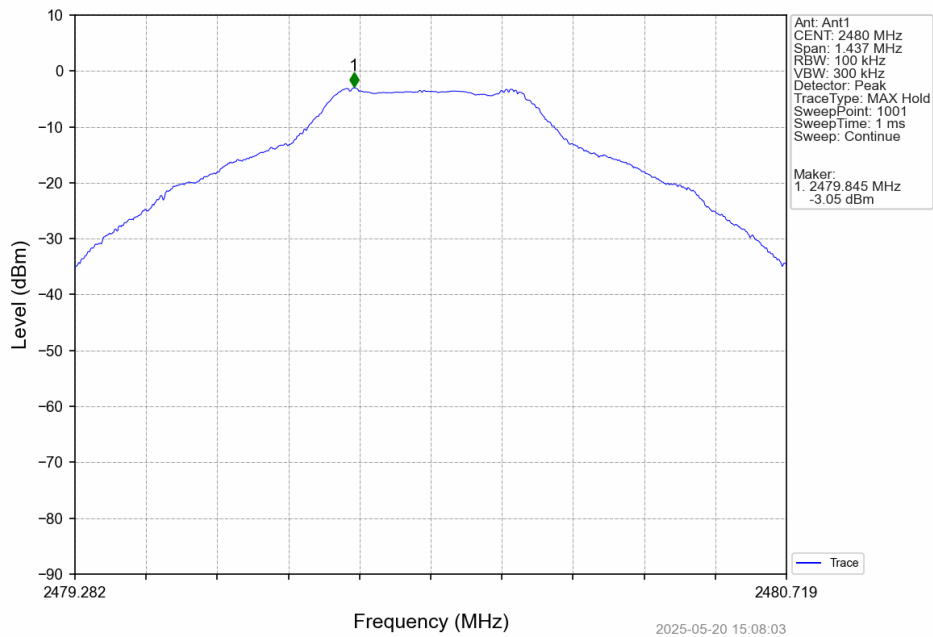
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

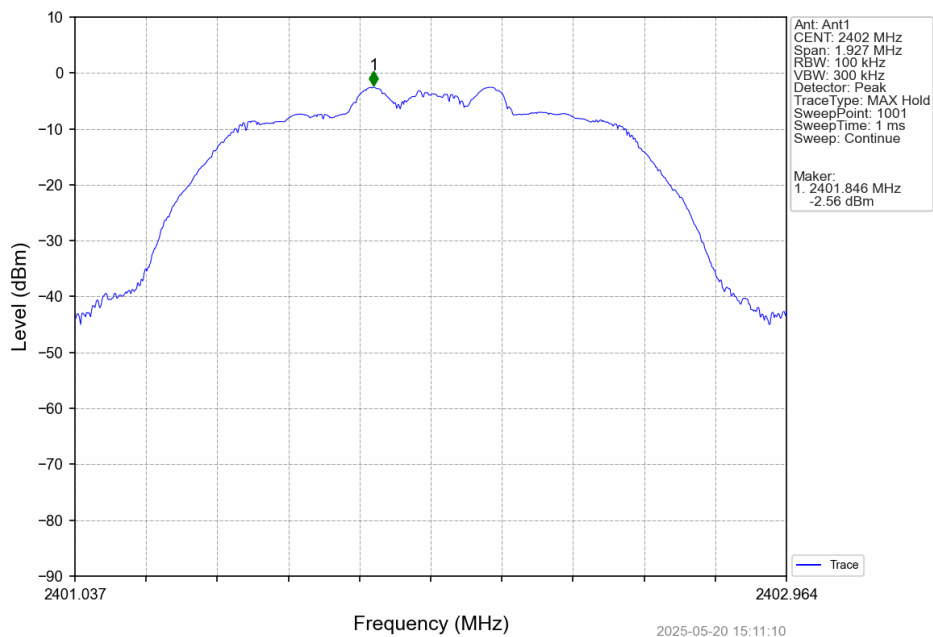
Scan code to check authenticity



GFSK DH5 HCH 2480MHz Ant1 NTN



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1 NTN



Shenzhen LCS Compliance Testing Laboratory Ltd.

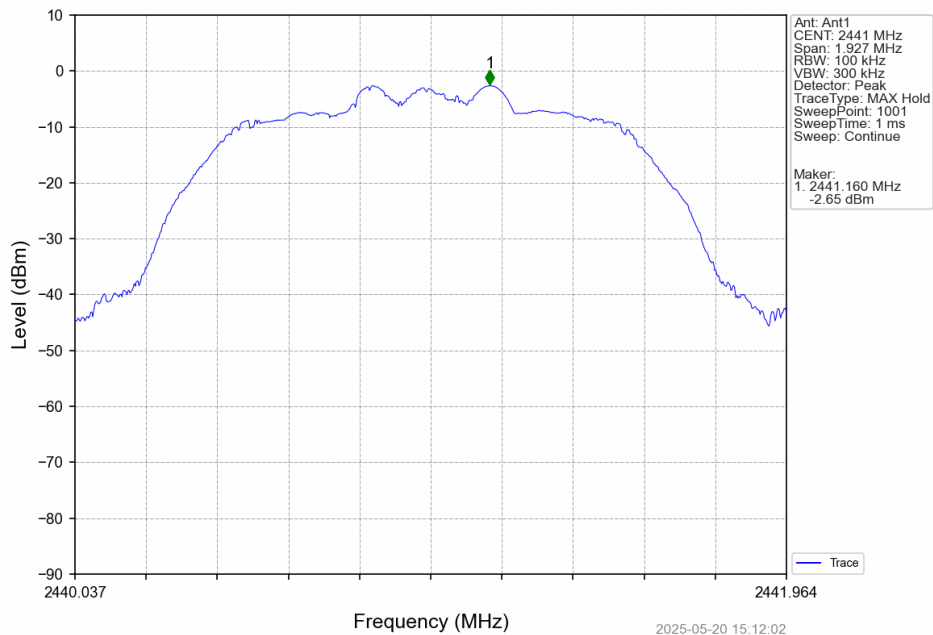
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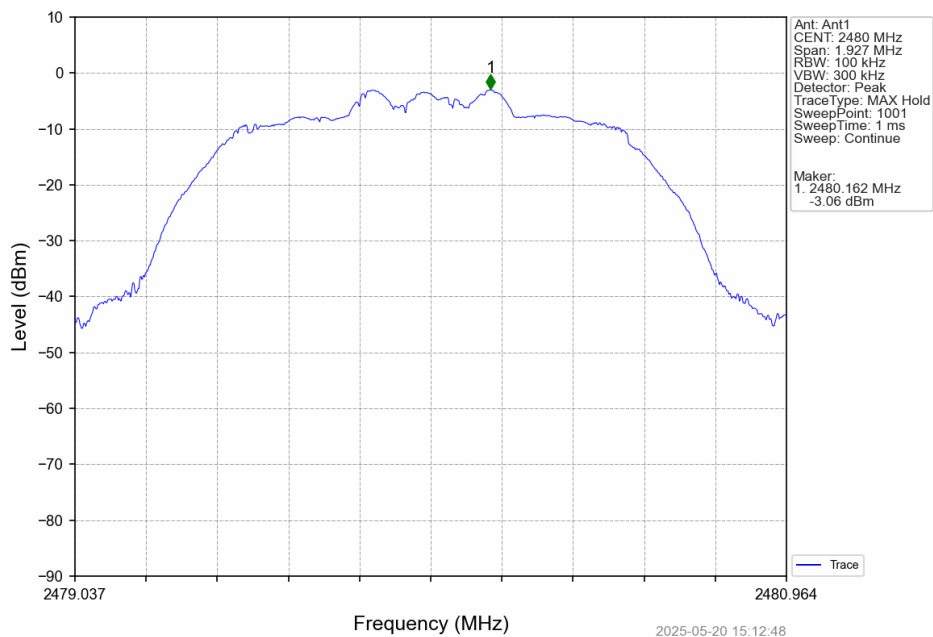
Scan code to check authenticity



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

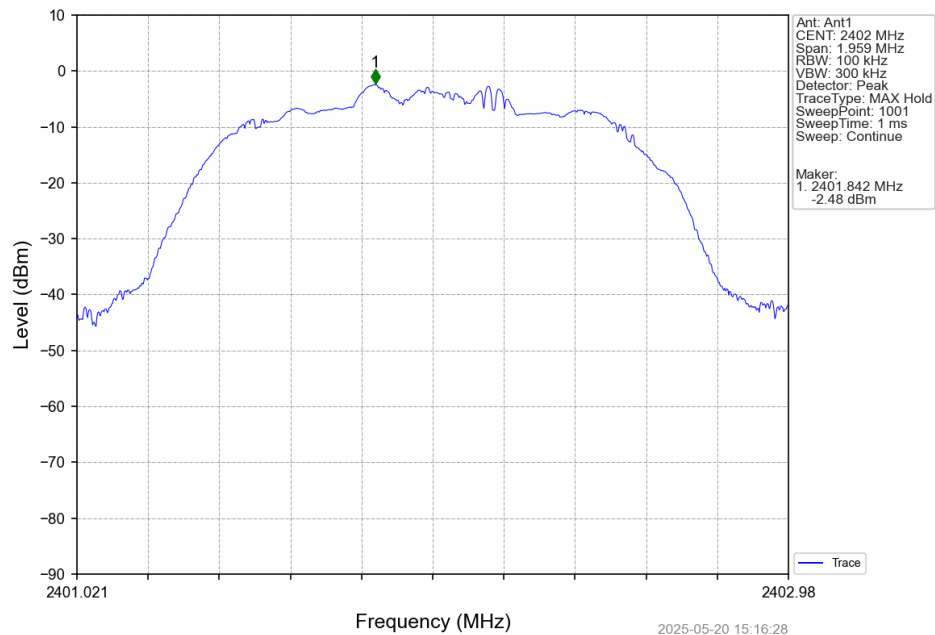
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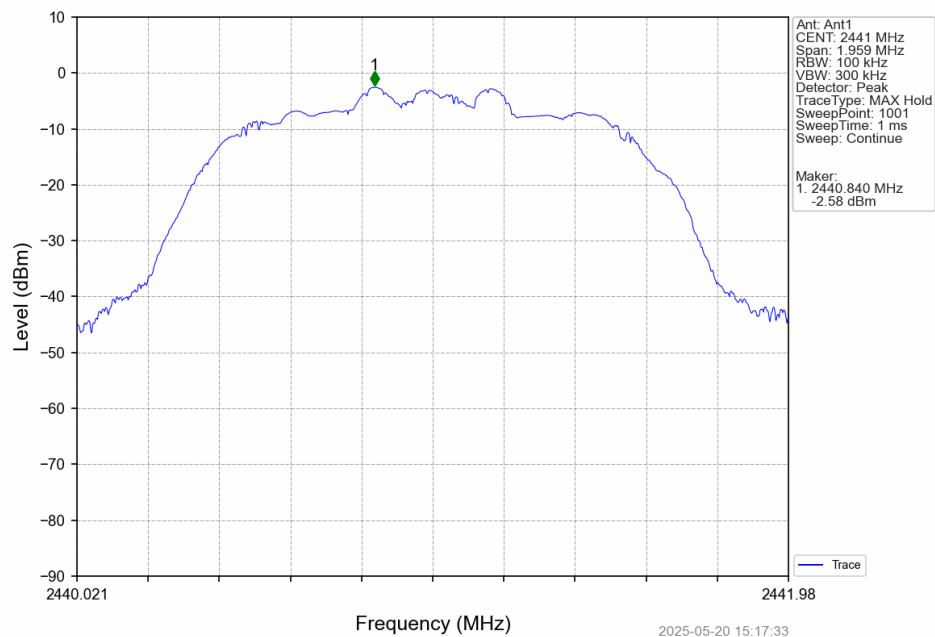
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

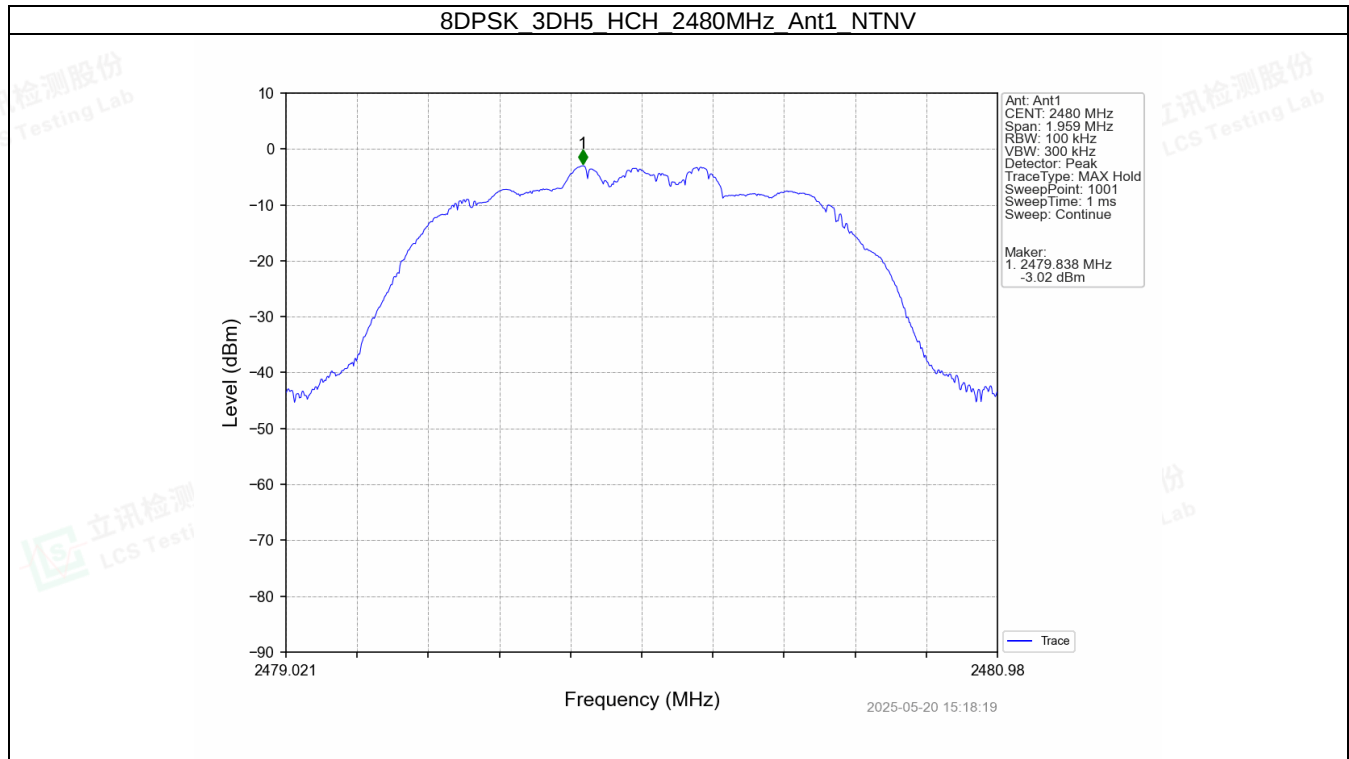


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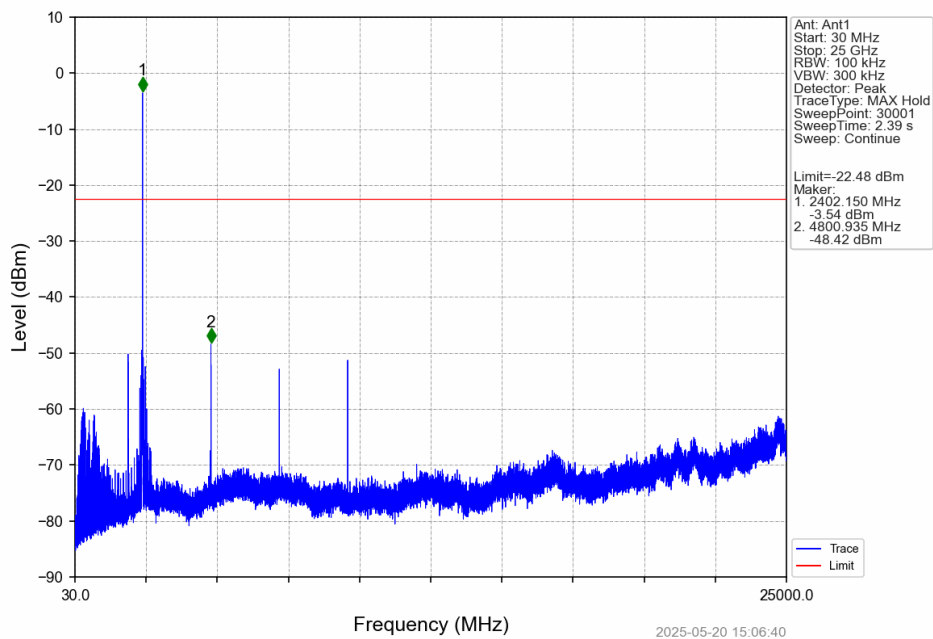
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

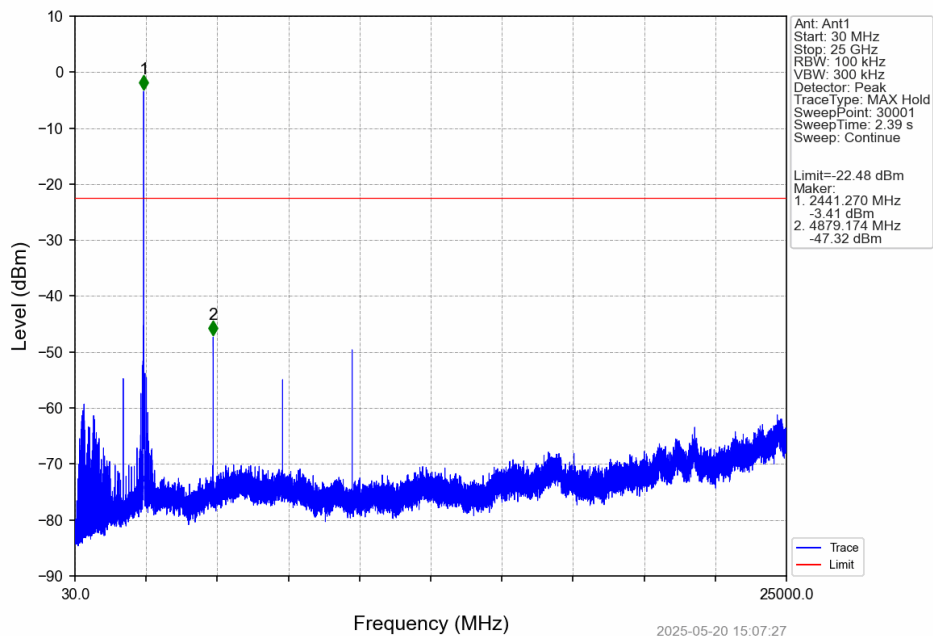


CSE

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

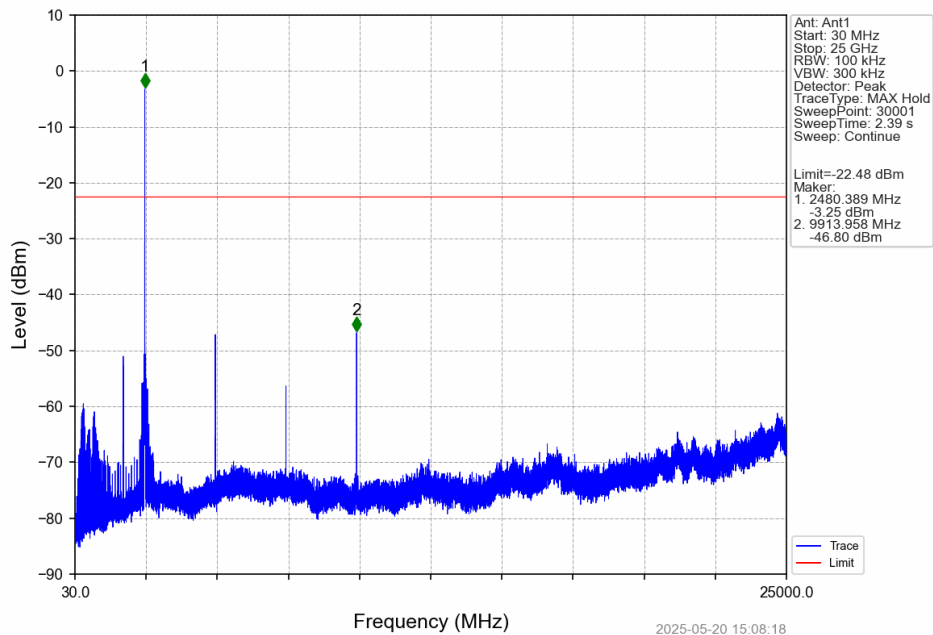
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

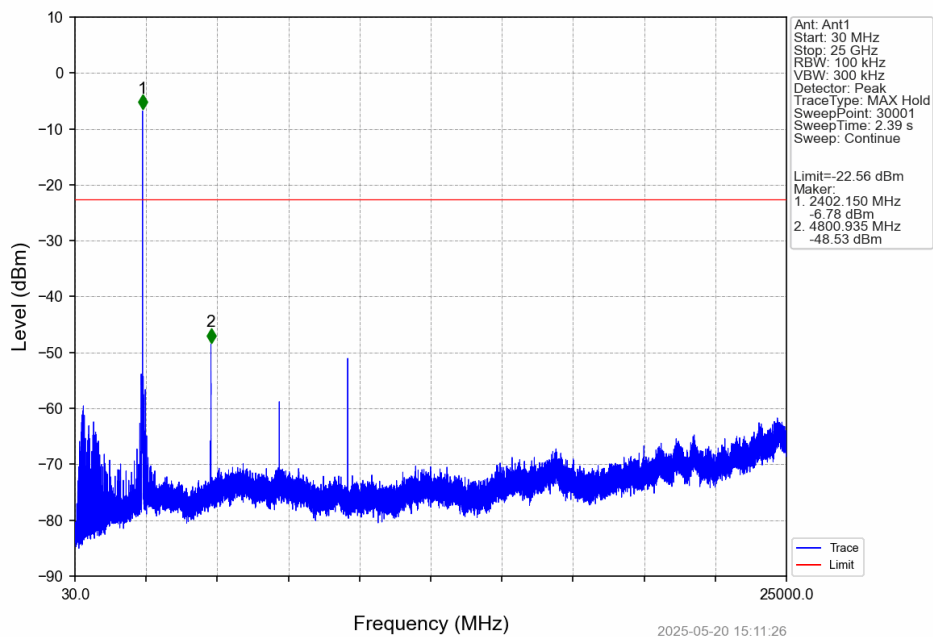
Scan code to check authenticity



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

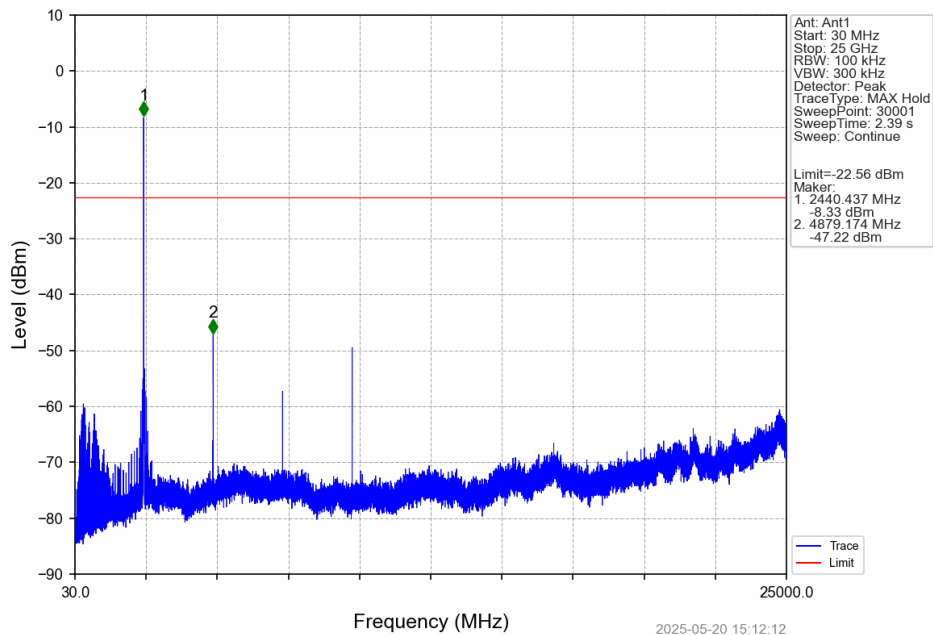
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

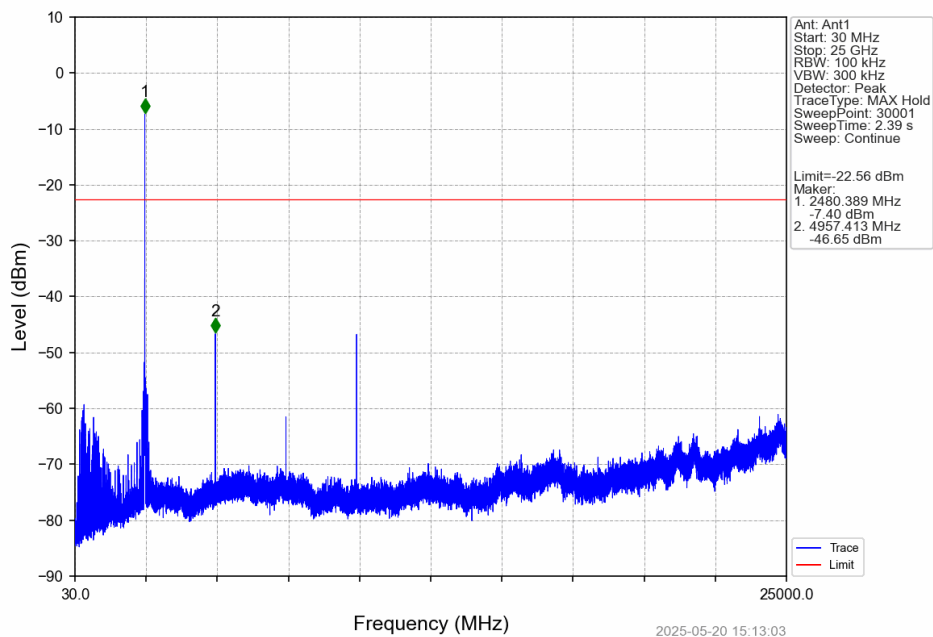
Scan code to check authenticity



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

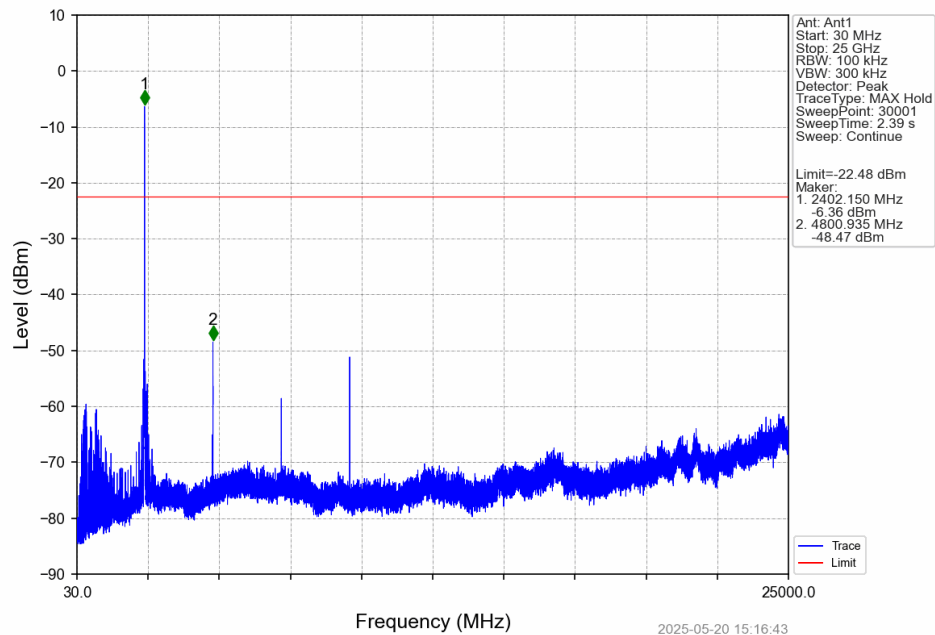
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

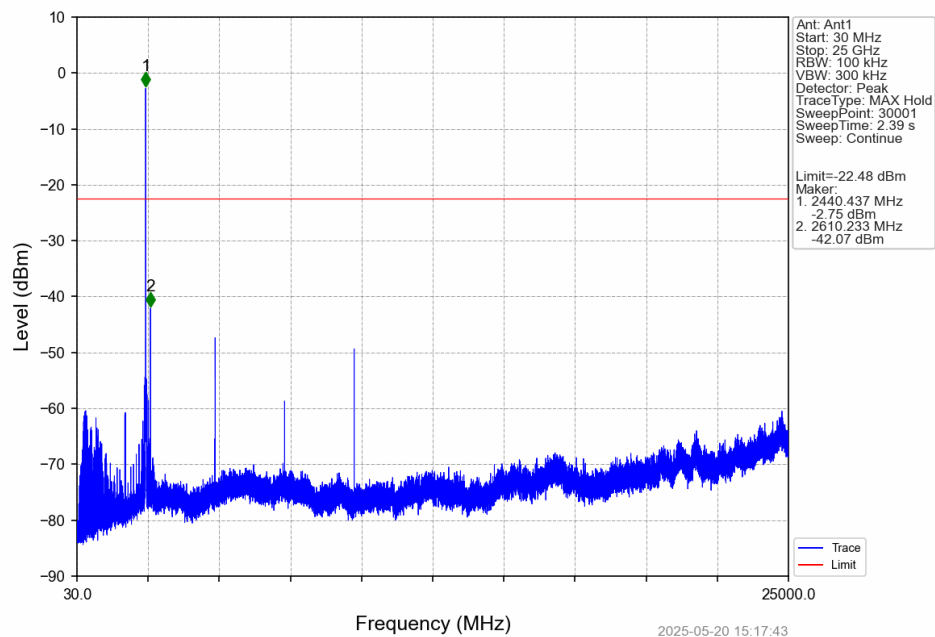
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

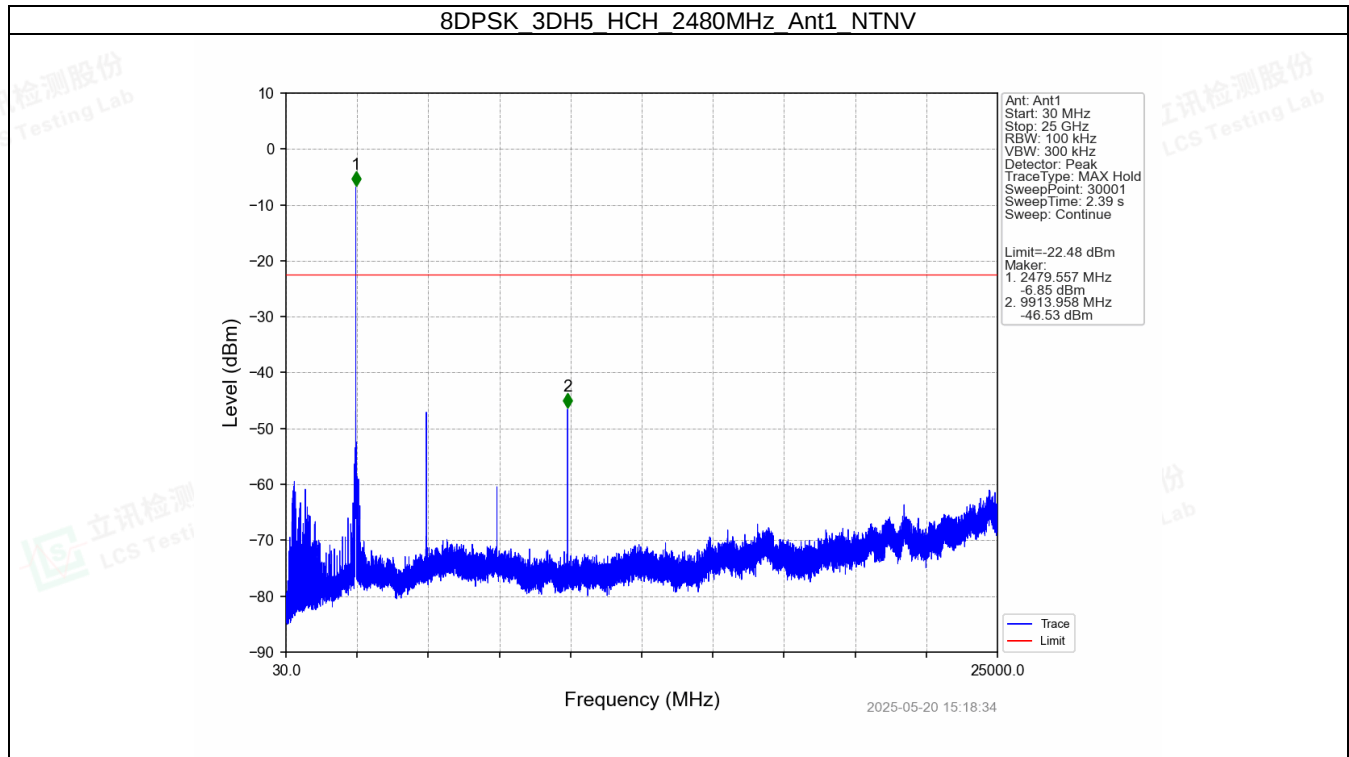


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A.8 Duty Cycle

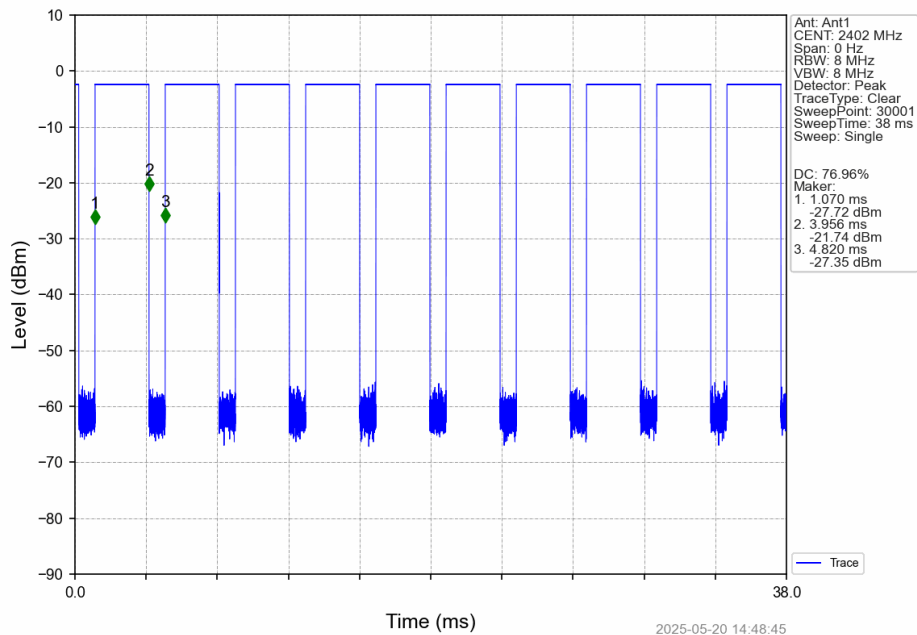
Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.886	3.750	76.96	1.14	0.01
		2441	DH5	2.880	3.750	76.80	1.15	0.03
		2480	DH5	2.885	3.749	76.95	1.14	0.01
Pi/4DQPSK	SISO	2402	2DH5	2.892	3.751	77.10	1.13	0.03
		2441	2DH5	2.891	3.749	77.11	1.13	0.01
		2480	2DH5	2.892	3.751	77.10	1.13	0.03
8DPSK	SISO	2402	3DH5	2.895	3.750	77.20	1.12	0.03
		2441	3DH5	2.894	3.749	77.19	1.12	0.01
		2480	3DH5	2.894	3.749	77.19	1.12	0.03



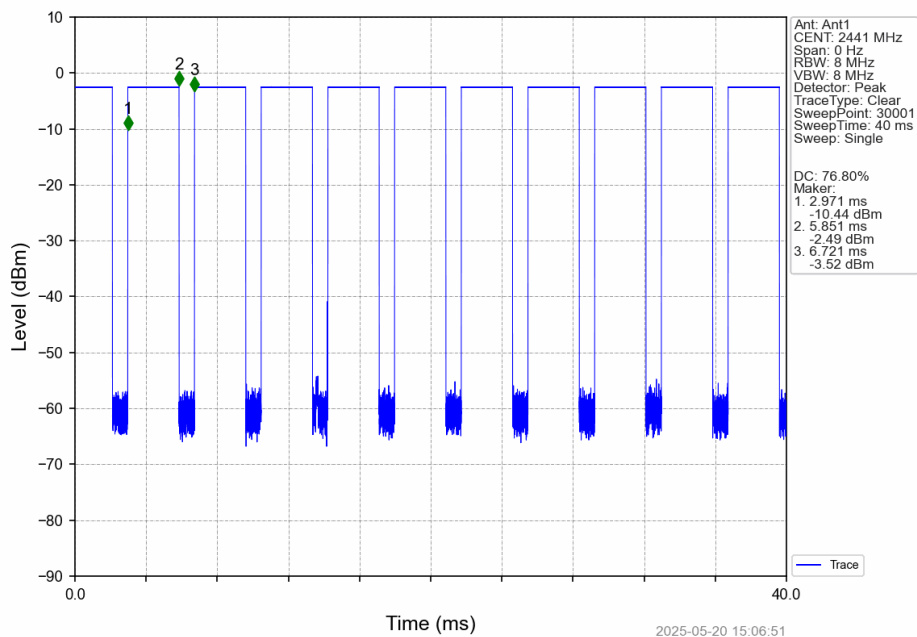
Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,
Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

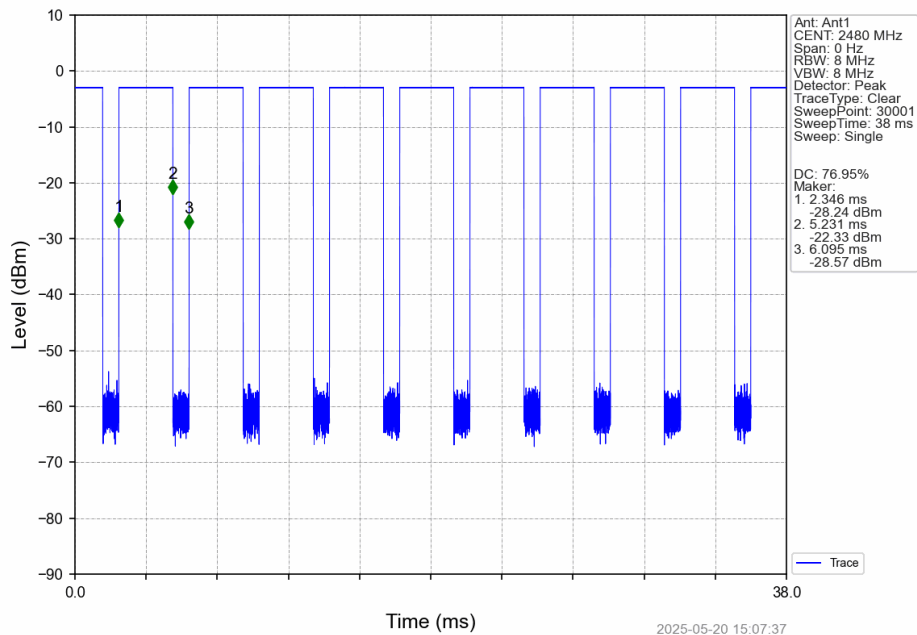
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

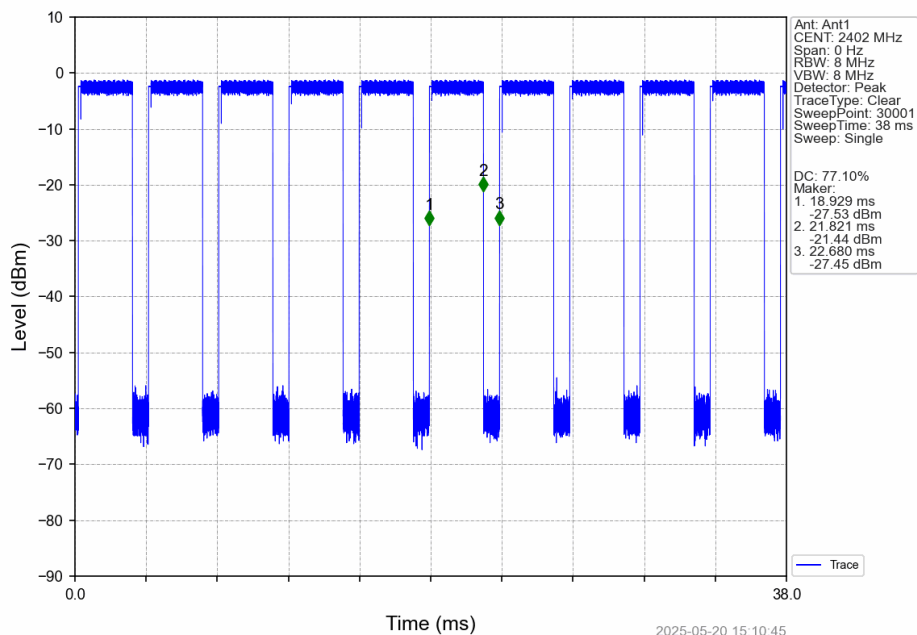
Scan code to check authenticity



GFSK DH5 HCH 2480MHz Ant1 NTN



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTN



Shenzhen LCS Compliance Testing Laboratory Ltd.

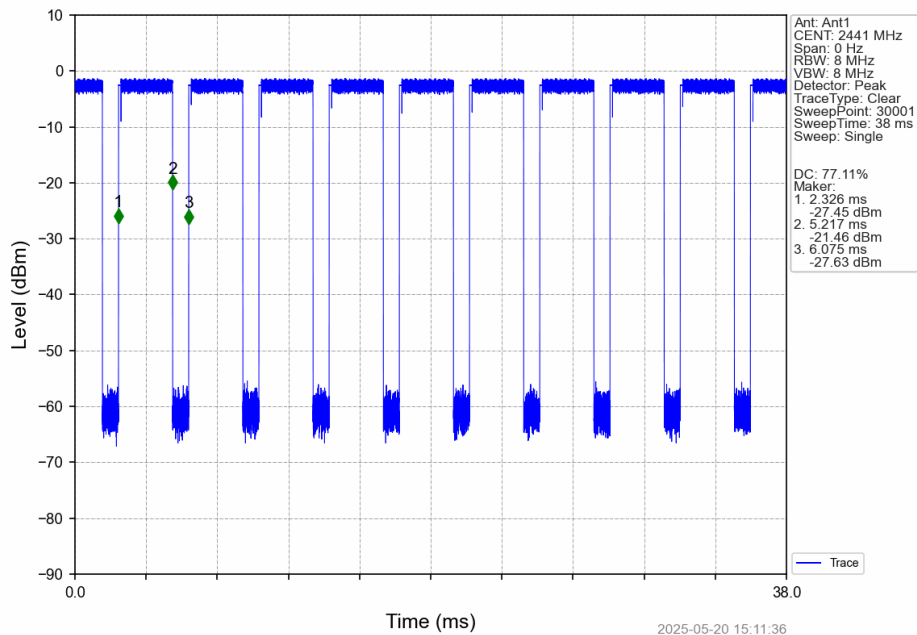
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

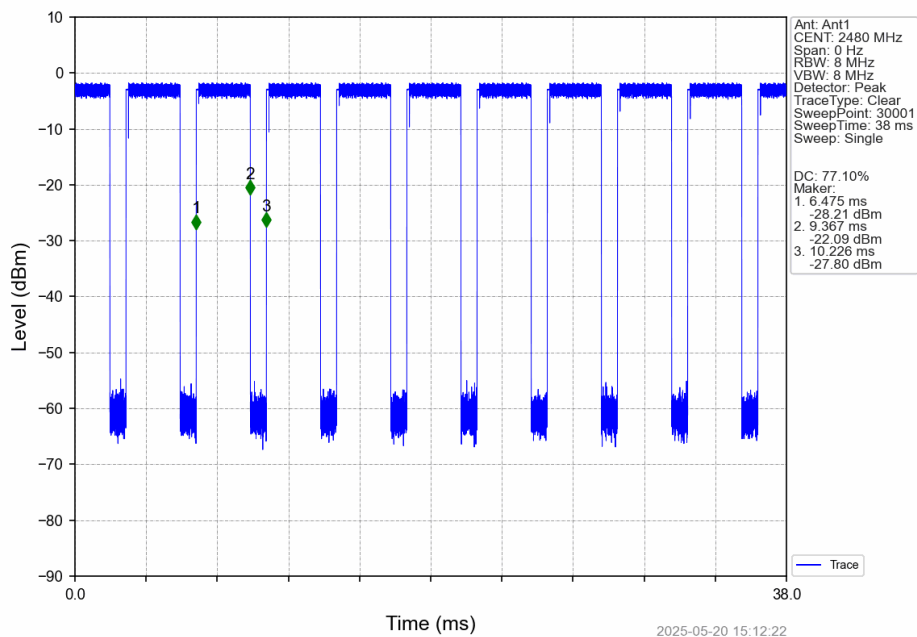
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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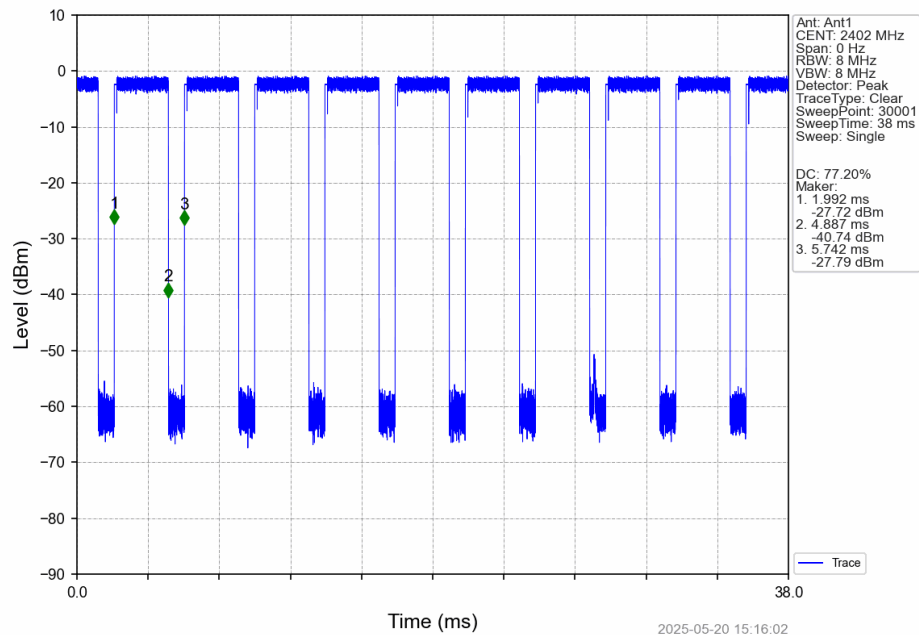
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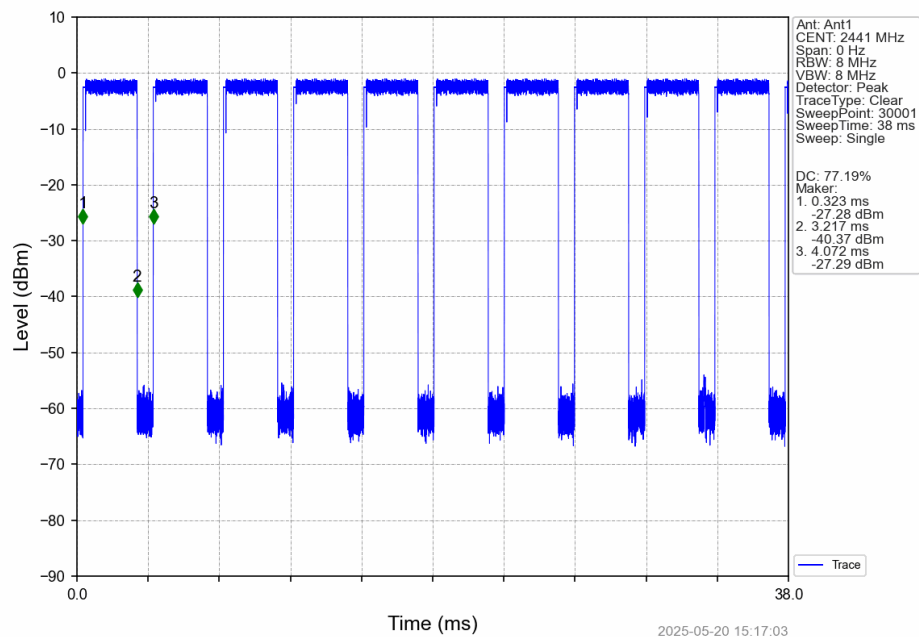
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

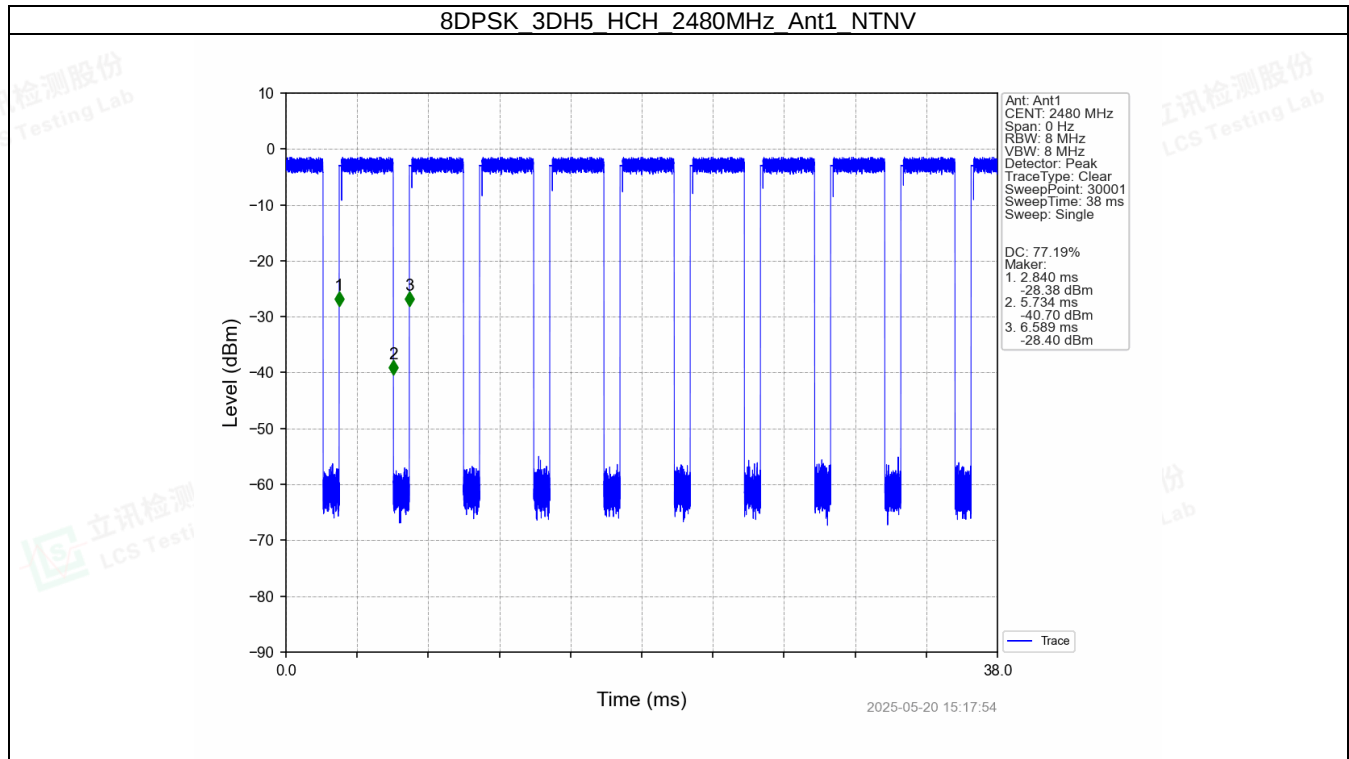


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A.9 Restrict Band

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	-50.43	2.58	-	47.41	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.51	2.58	1.14	40.47	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2374.416	-47.35	2.58	-	50.49	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2359.728	-57.89	2.58	1.14	41.09	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.83	2.58	-	48.01	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-59.11	2.58	1.14	39.87	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.15	2.58	-	47.69	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.88	2.58	1.14	41.10	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.328	-46.78	2.58	-	51.06	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2495.848	-57.14	2.58	1.14	41.84	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.3	2.58	-	49.54	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.31	2.58	1.14	40.67	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.44	2.58	-	46.40	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.87	2.58	1.13	40.10	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2372.592	-47.81	2.58	-	50.03	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2370.96	-57.51	2.58	1.13	41.46	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.73	2.58	-	48.11	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.94	2.58	1.13	40.03	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.52	2.58	-	48.32	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.47	2.58	1.13	41.50	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.264	-47.12	2.58	-	50.72	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.536	-57.12	2.58	1.13	41.85	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.35	2.58	-	47.49	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.98	2.58	1.13	40.99	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.61	2.58	-	46.23	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.77	2.58	1.12	40.19	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2313.936	-47.52	2.58	-	50.32	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.528	-57.81	2.58	1.12	41.15	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.87	2.58	-	46.97	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.81	2.58	1.12	40.15	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.3	2.58	-	49.54	Peak	74	Pass



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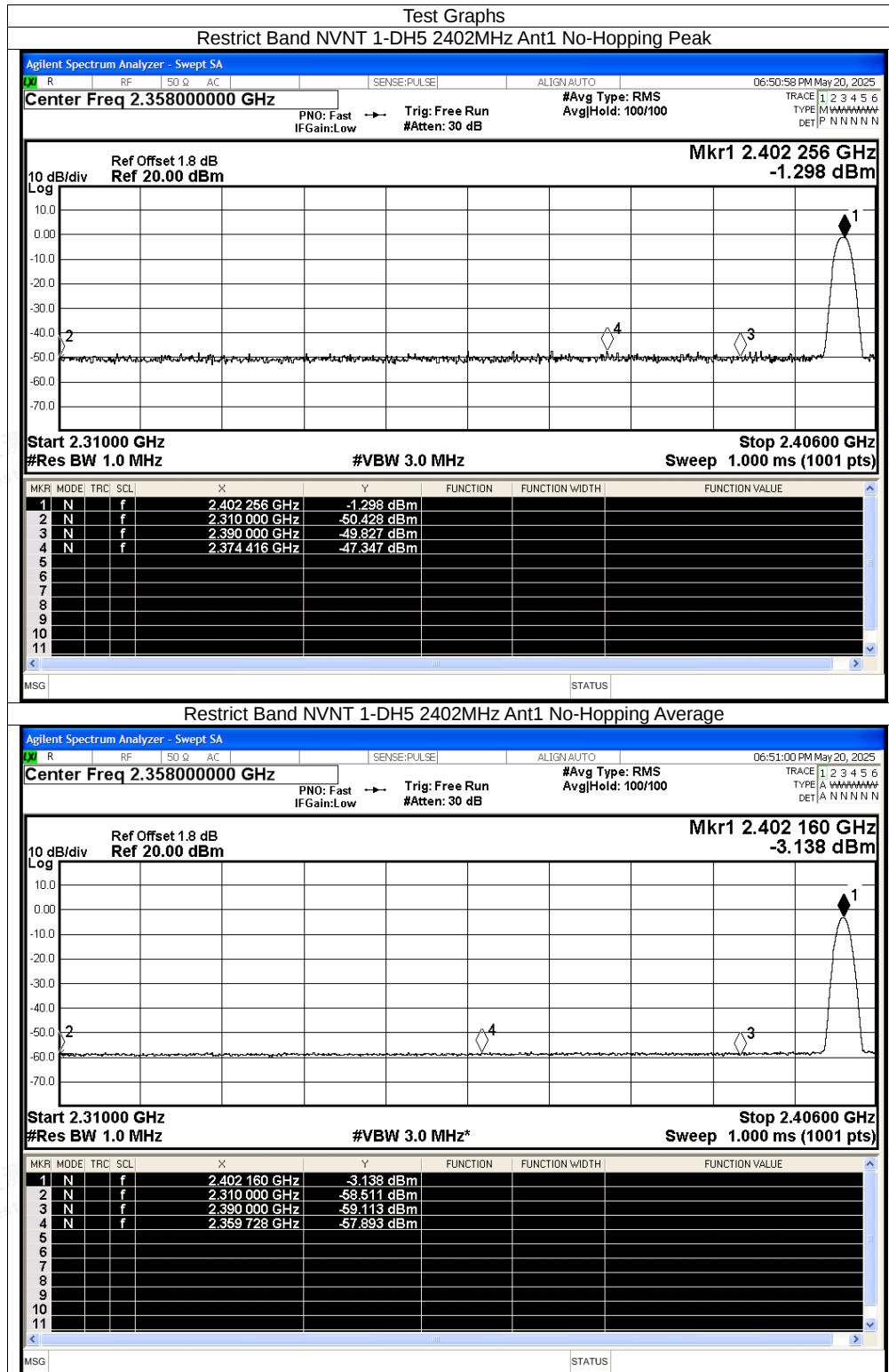
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NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.61	2.58	1.12	41.35	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.68	-45.32	2.58	-	52.52	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.56	-57.33	2.58	1.12	41.63	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.7	2.58	-	48.14	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.77	2.58	1.12	41.19	Average	54	Pass



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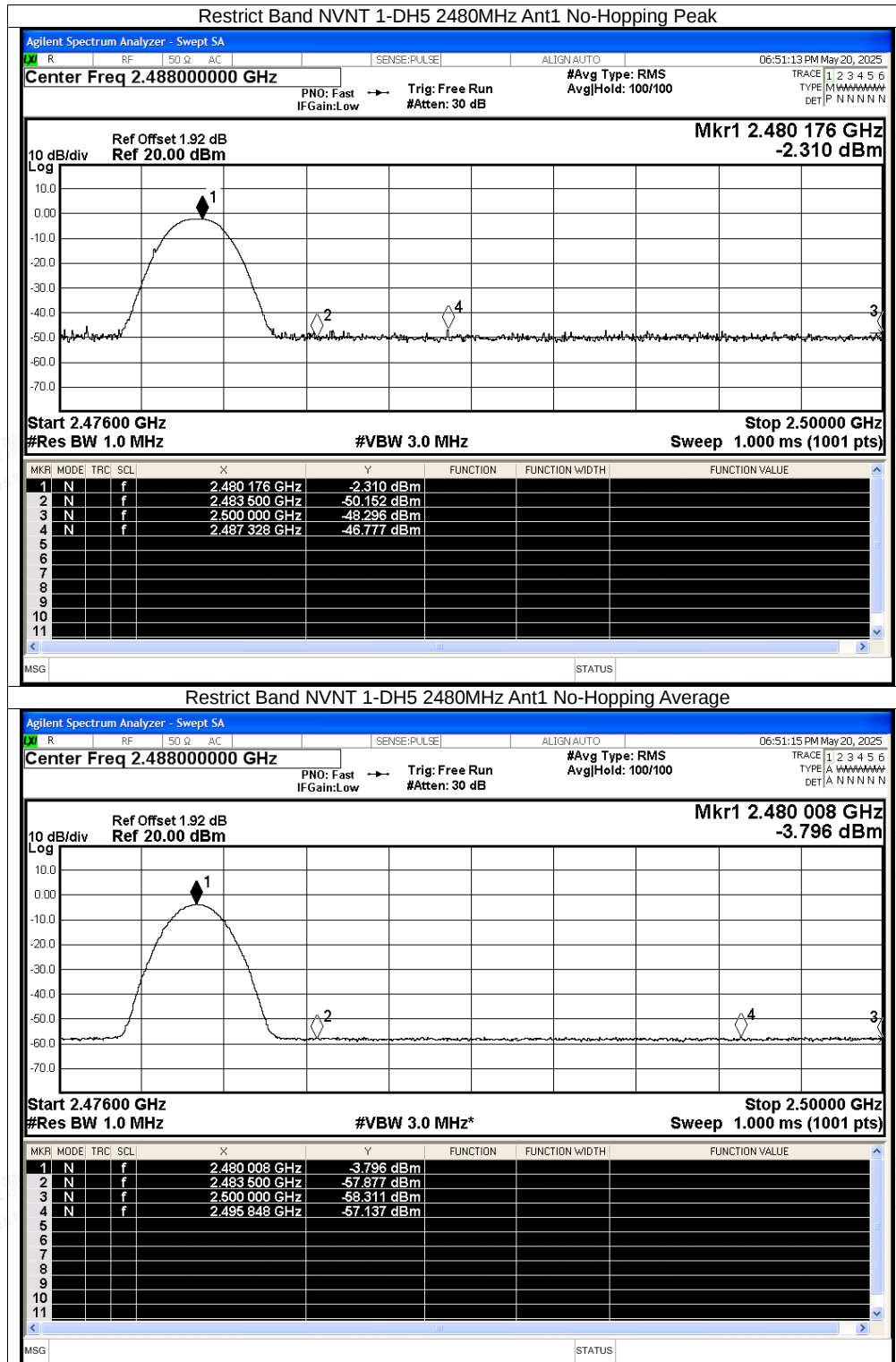


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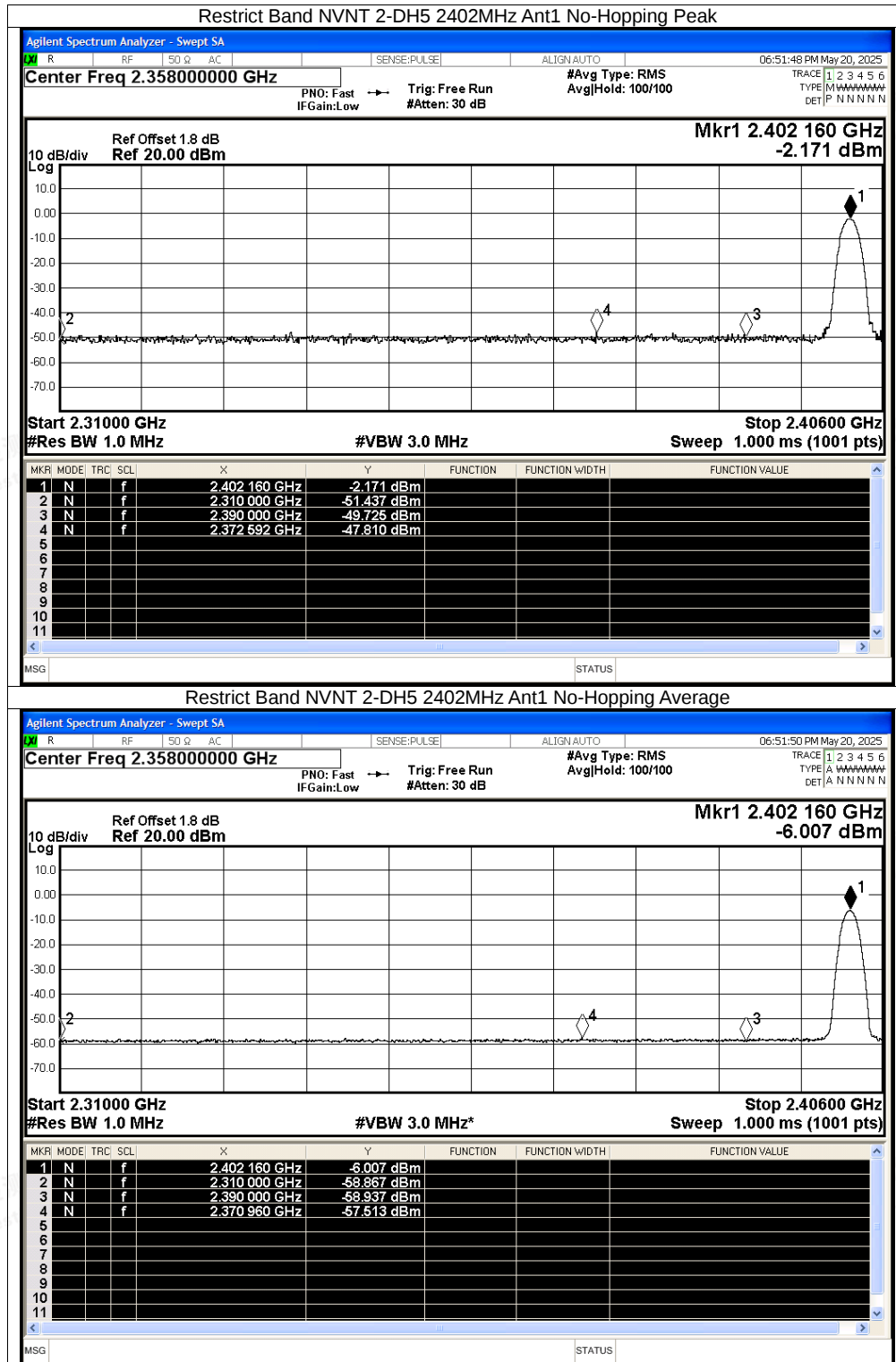


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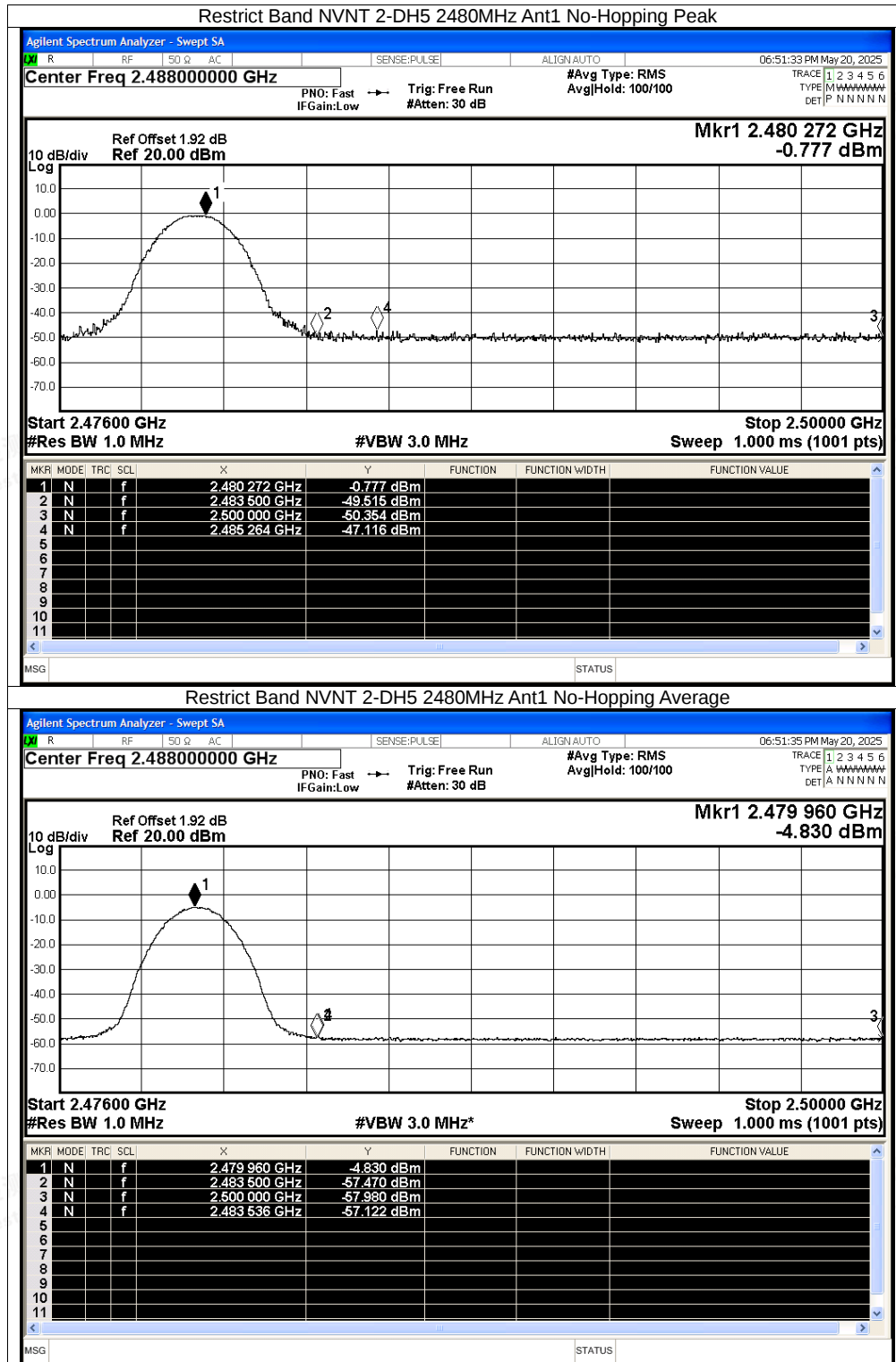


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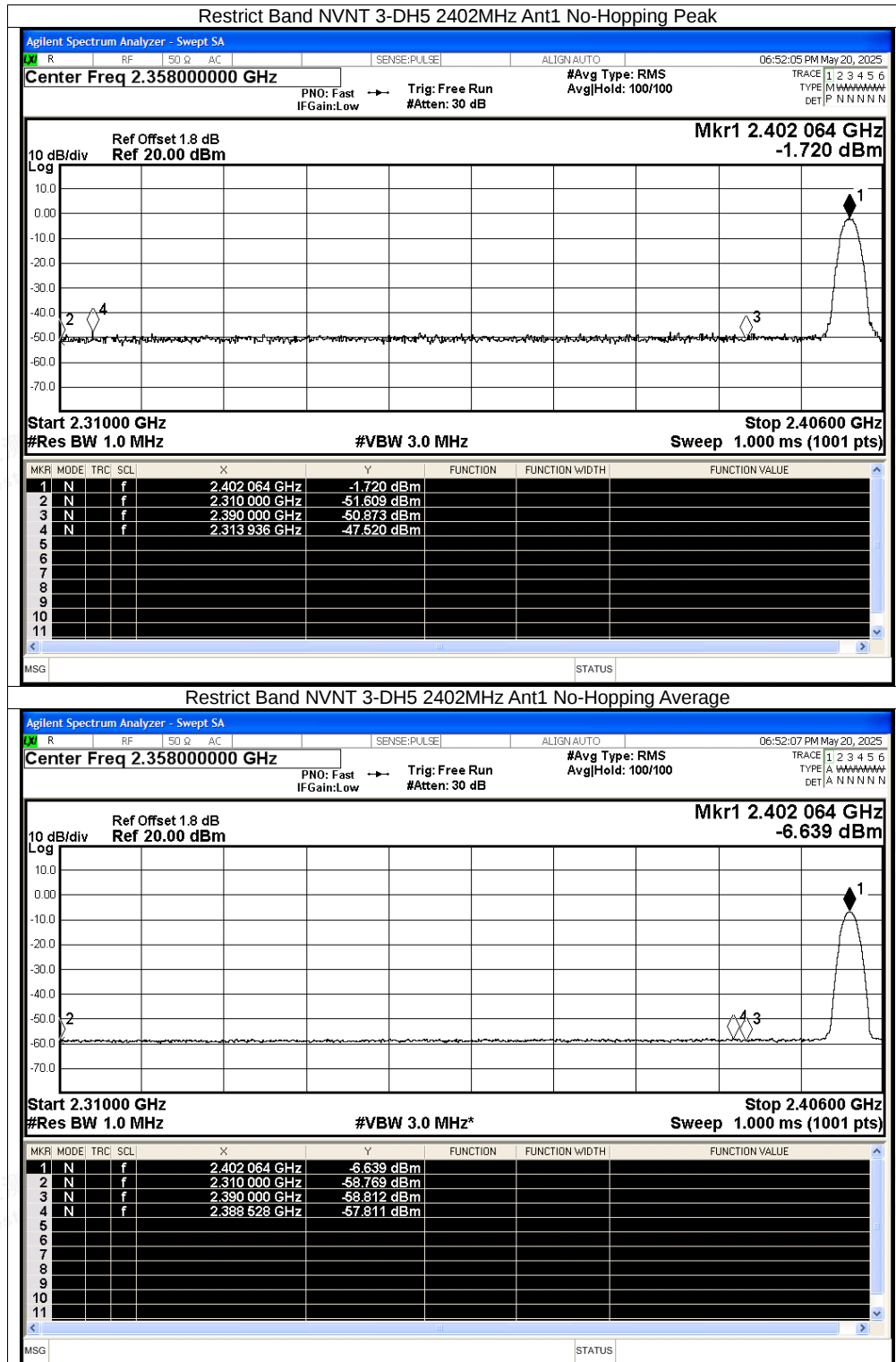


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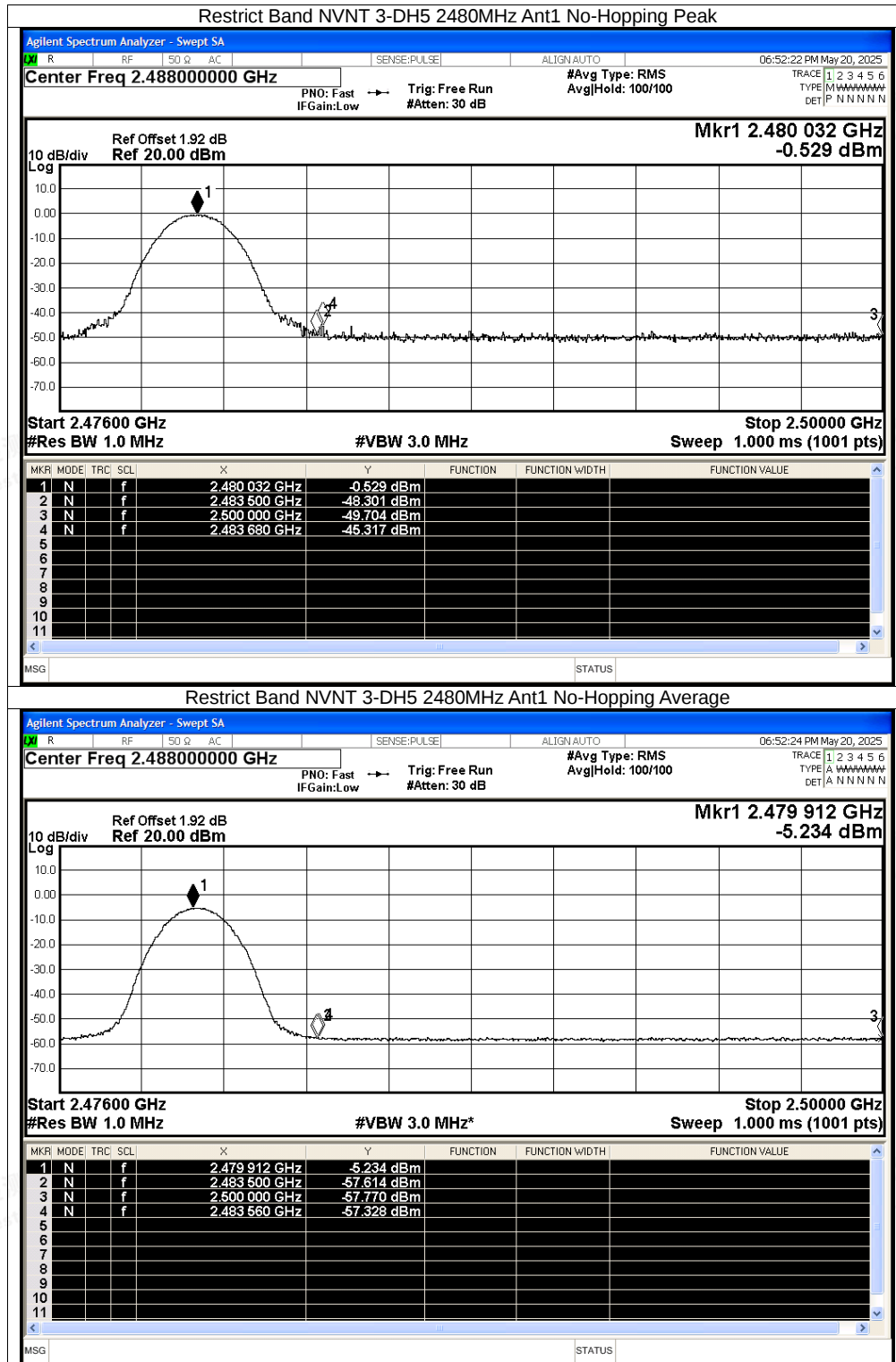


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