



Appendix A

RF Test Data for BT(Conducted Measurement)

Product Name: Retro Handheld Game Console

Test Model: Retroid Pocket Classic

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Nick Peng



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**A.1 20dB BW**

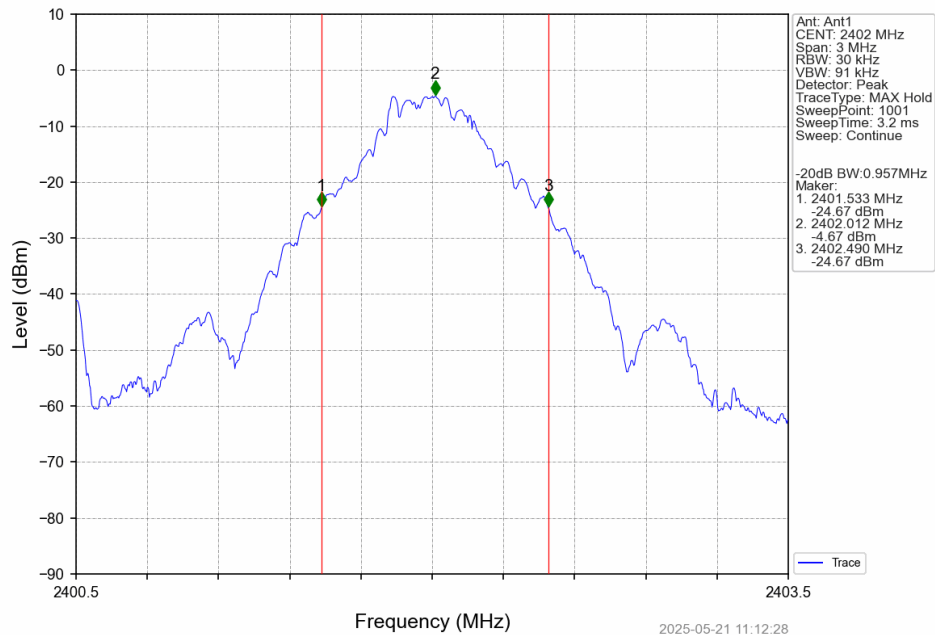
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.957	/	Pass
		2441	DH5	1	0.954	/	Pass
		2480	DH5	1	0.955	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.282	/	Pass
		2441	2DH5	1	1.284	/	Pass
		2480	2DH5	1	1.283	/	Pass
8DPSK	SISO	2402	3DH5	1	1.307	/	Pass
		2441	3DH5	1	1.307	/	Pass
		2480	3DH5	1	1.310	/	Pass



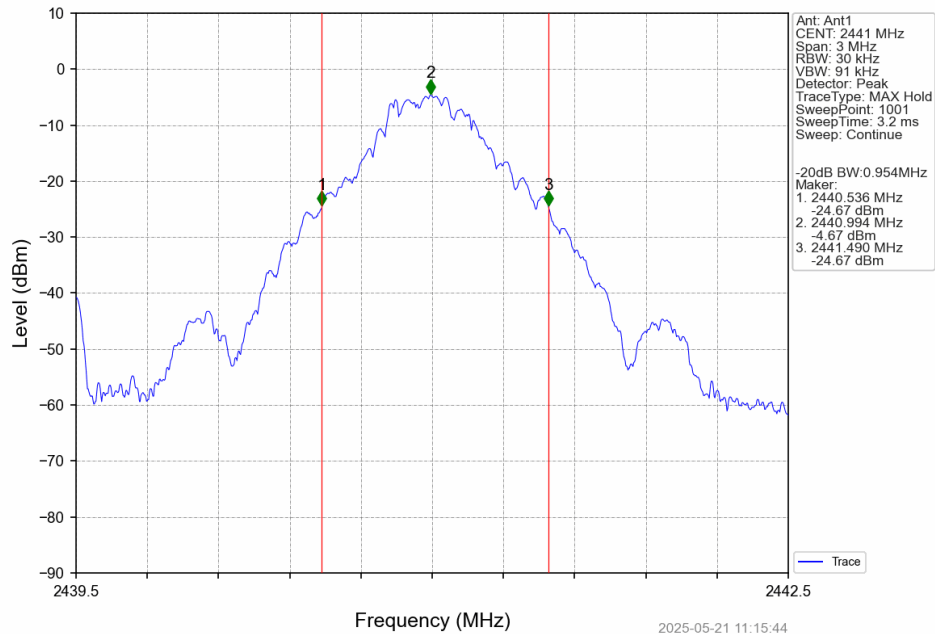
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GFSK_DH5_LCH_2402MHz_Ant1_NTNV



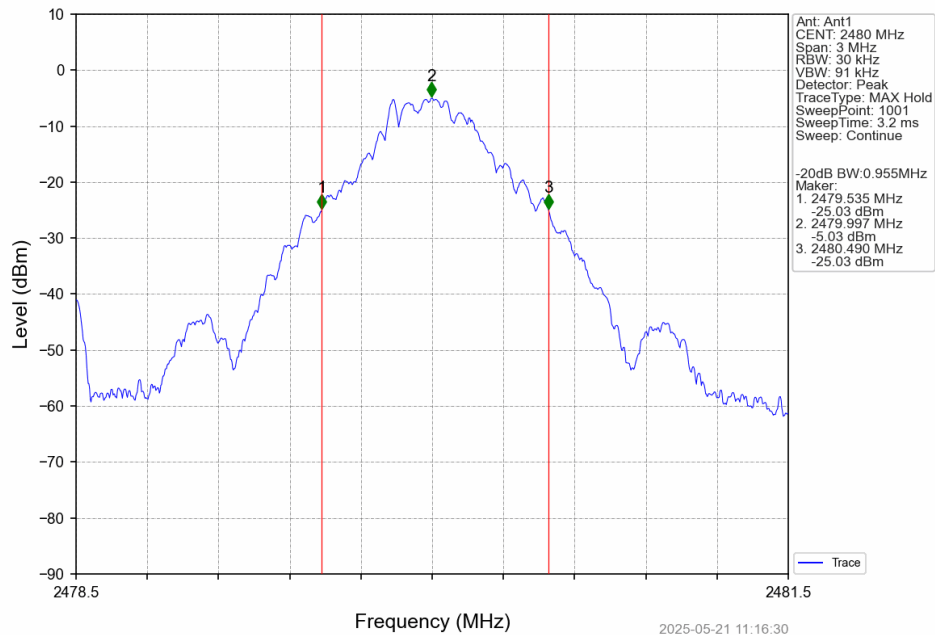
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



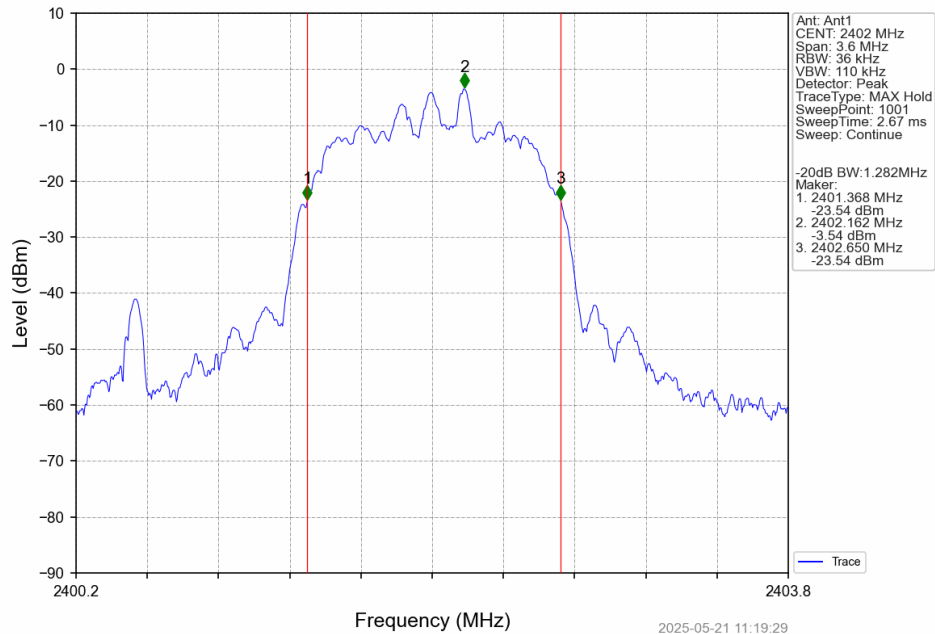
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



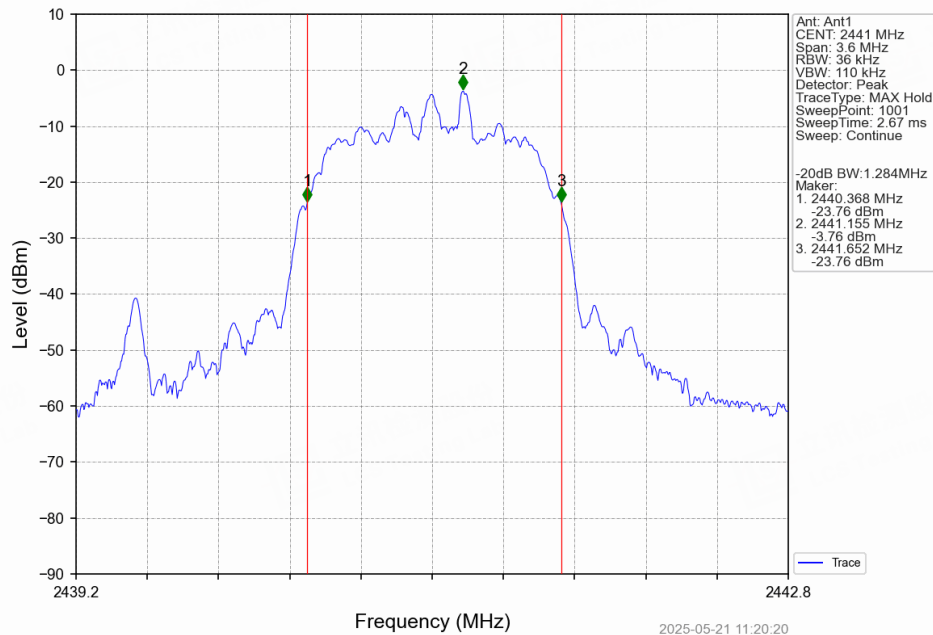
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



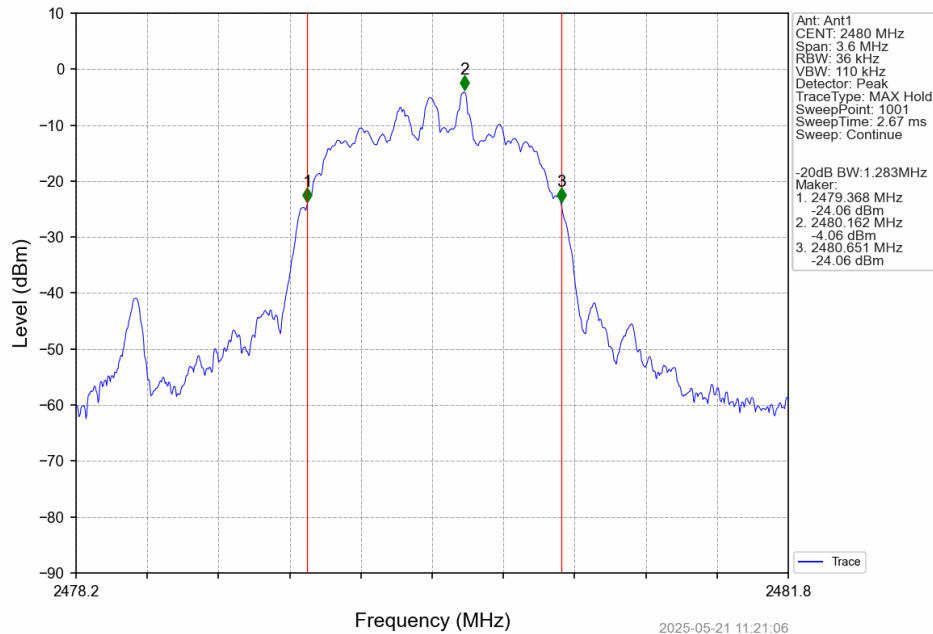
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



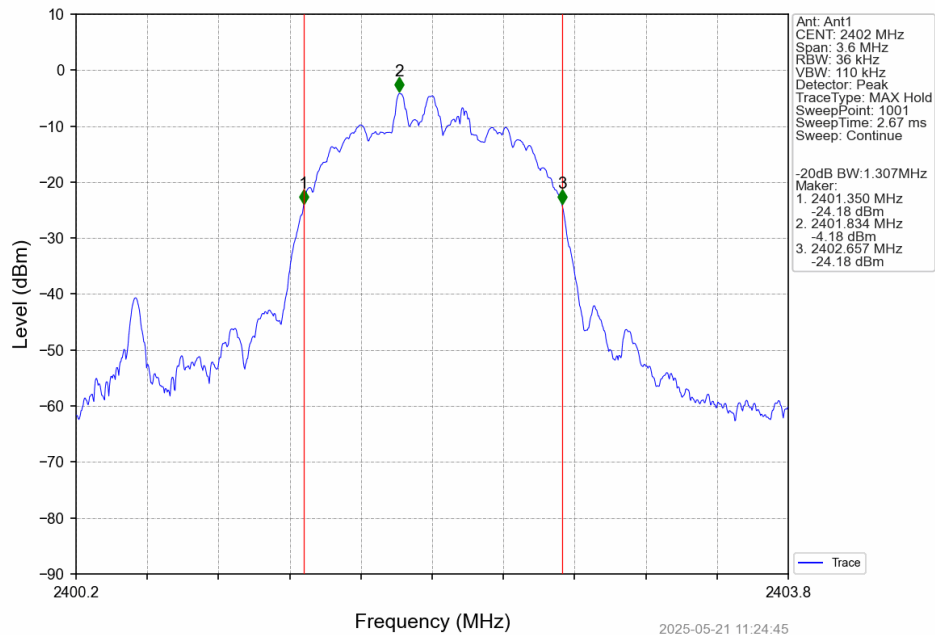
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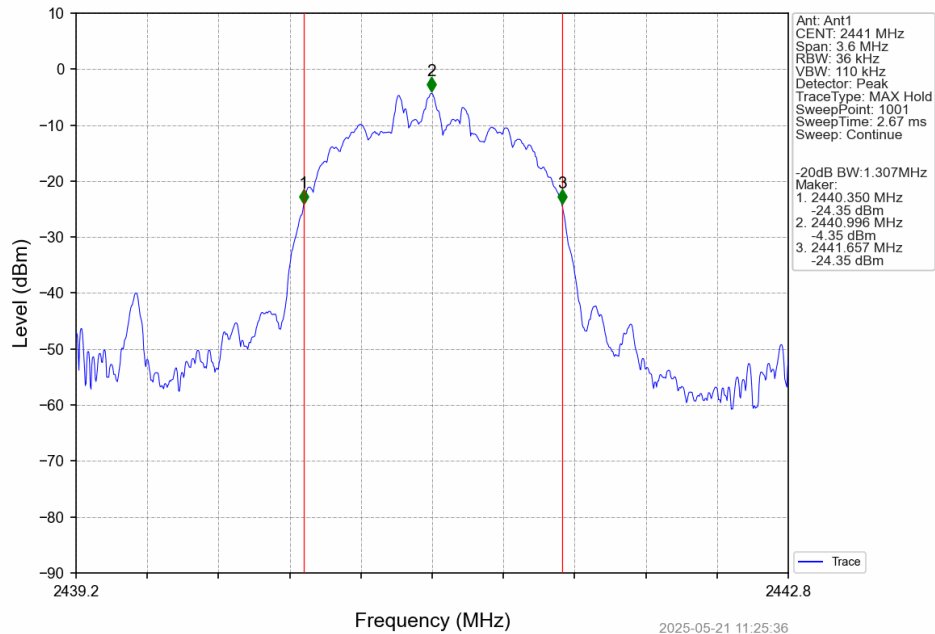
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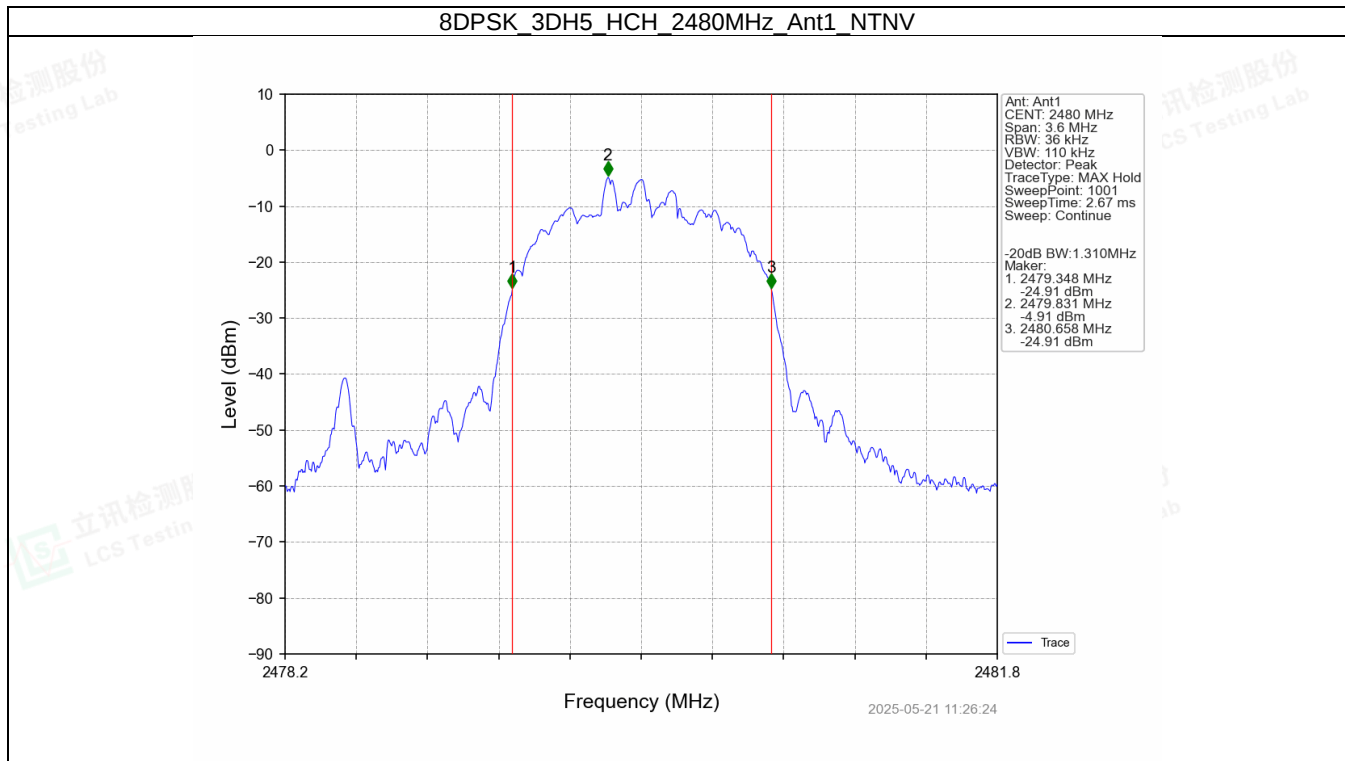
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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A.2 Maximum Peak Conducted Output Power

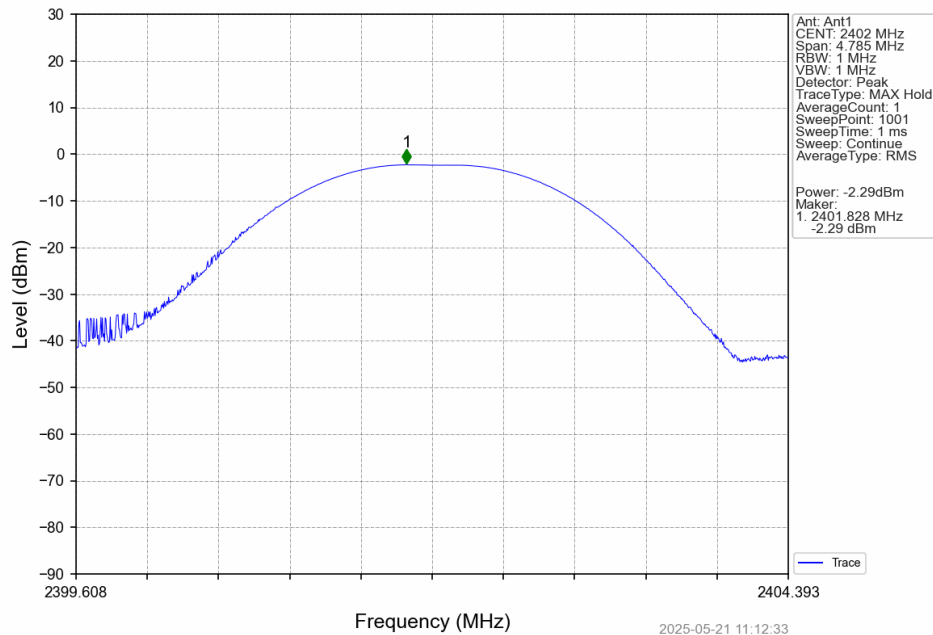
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GFSK	SISO	2402	DH5	-2.29	<=30	Pass
		2441	DH5	-2.42	<=30	Pass
		2480	DH5	-2.81	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-1.33	<=20.97	Pass
		2441	2DH5	-1.46	<=20.97	Pass
		2480	2DH5	-1.85	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-0.95	<=20.97	Pass
		2441	3DH5	-1.05	<=20.97	Pass
		2480	3DH5	-1.44	<=20.97	Pass



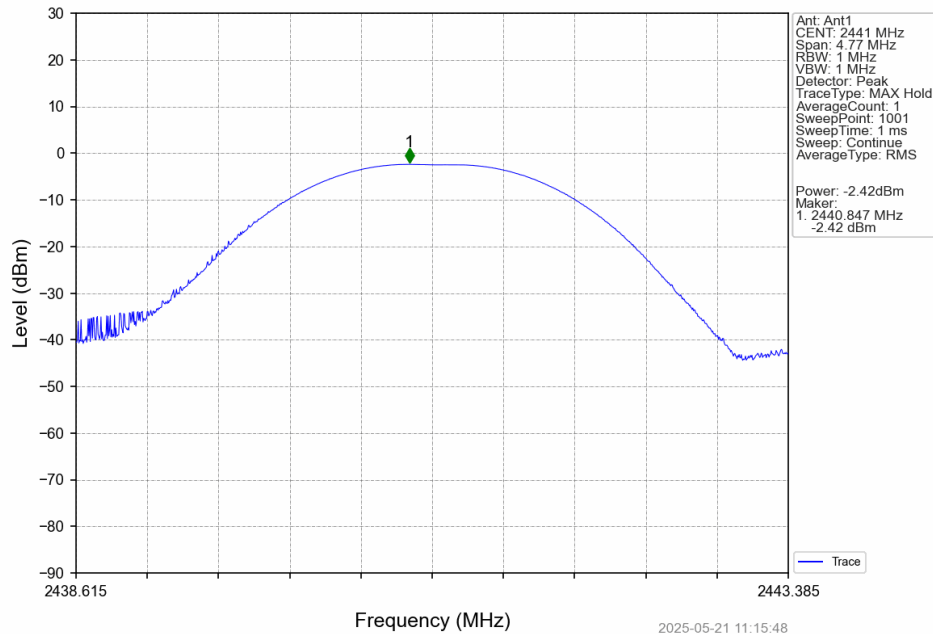
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GFSK_DH5_LCH_2402MHz_Ant1_NTNV



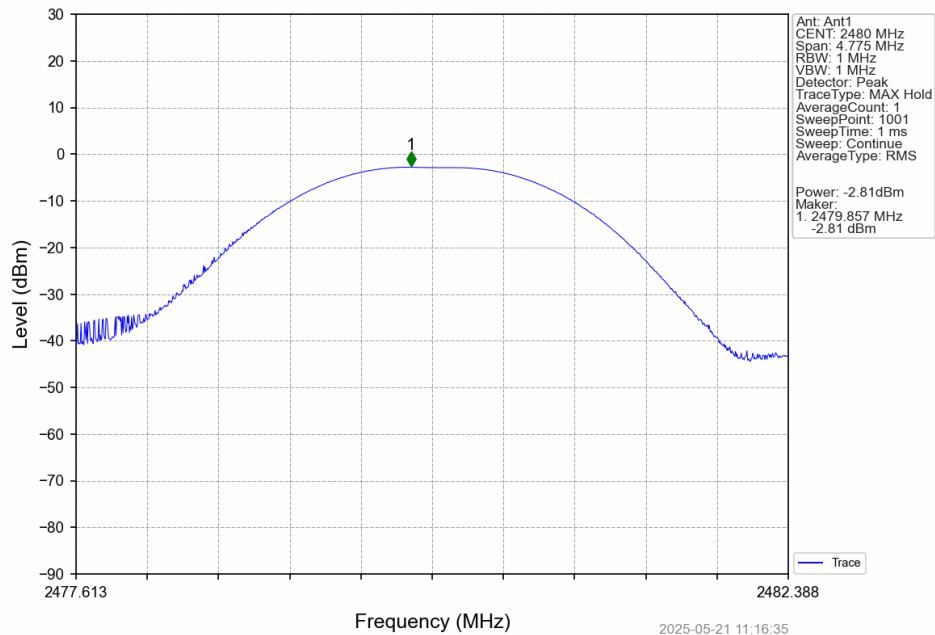
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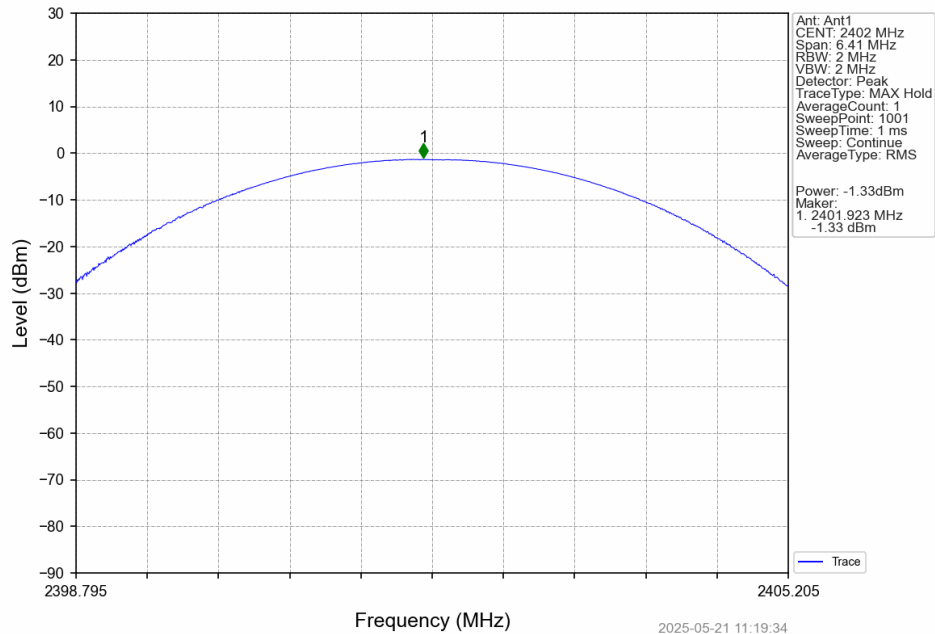
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



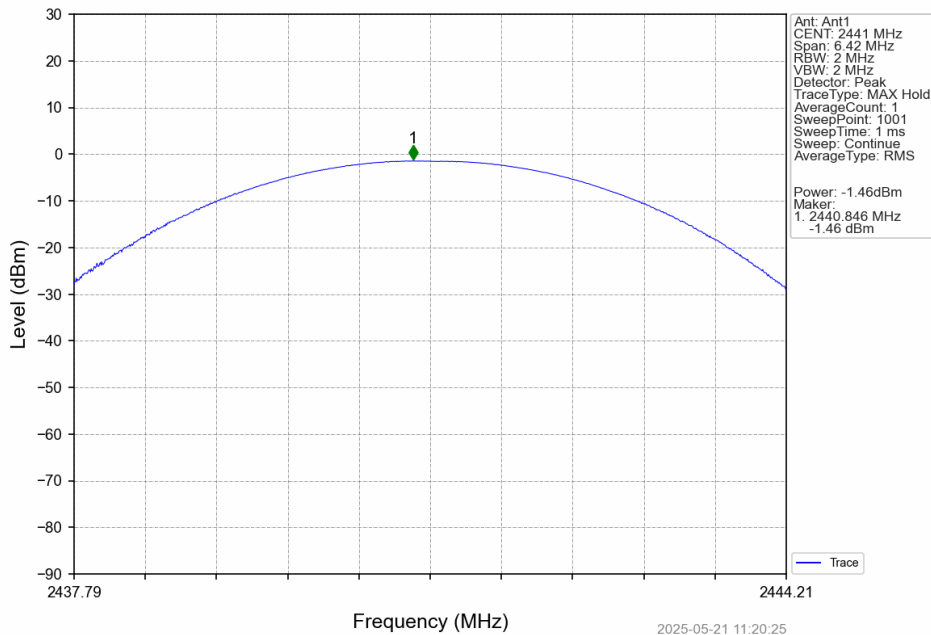
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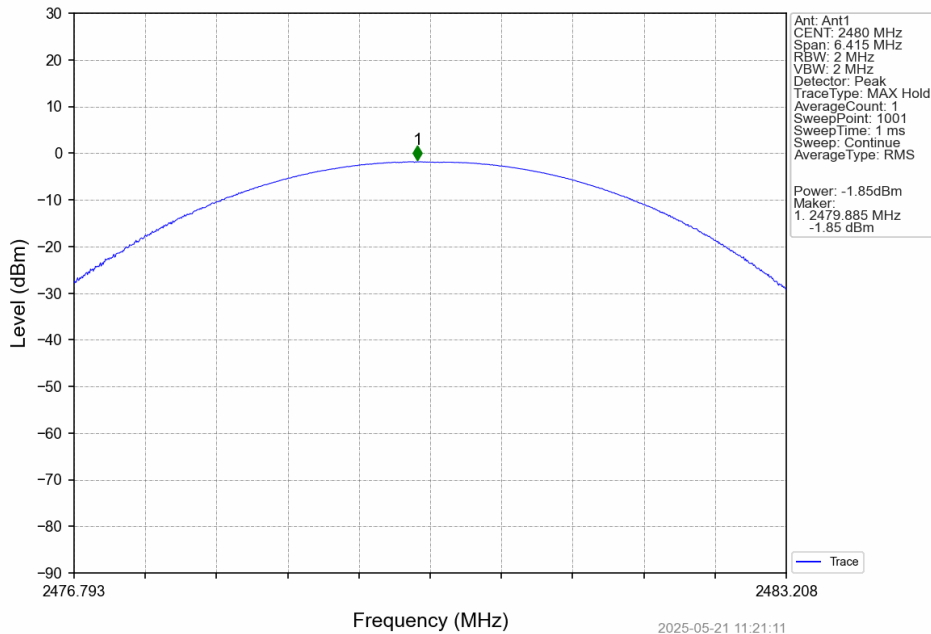
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



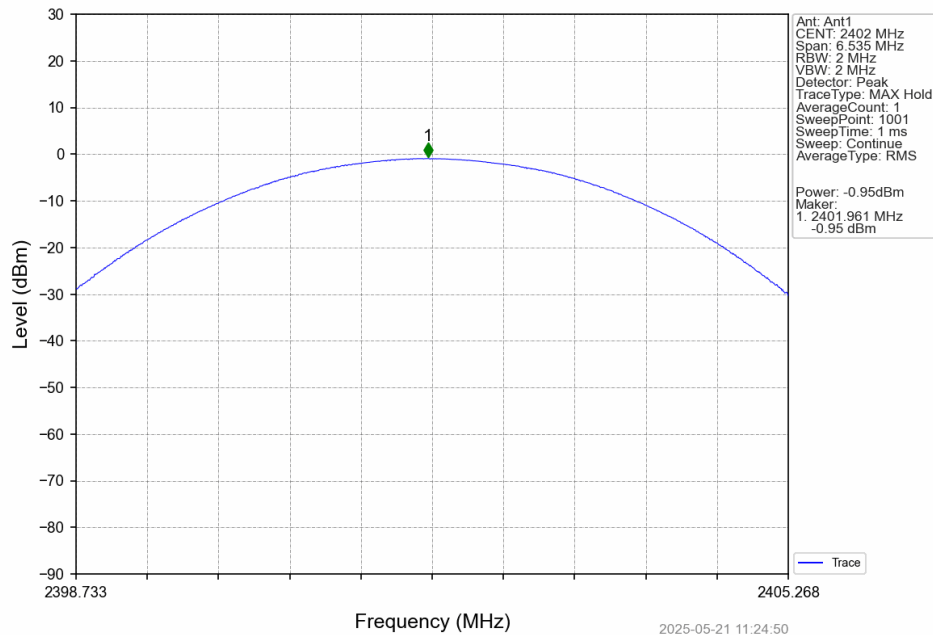
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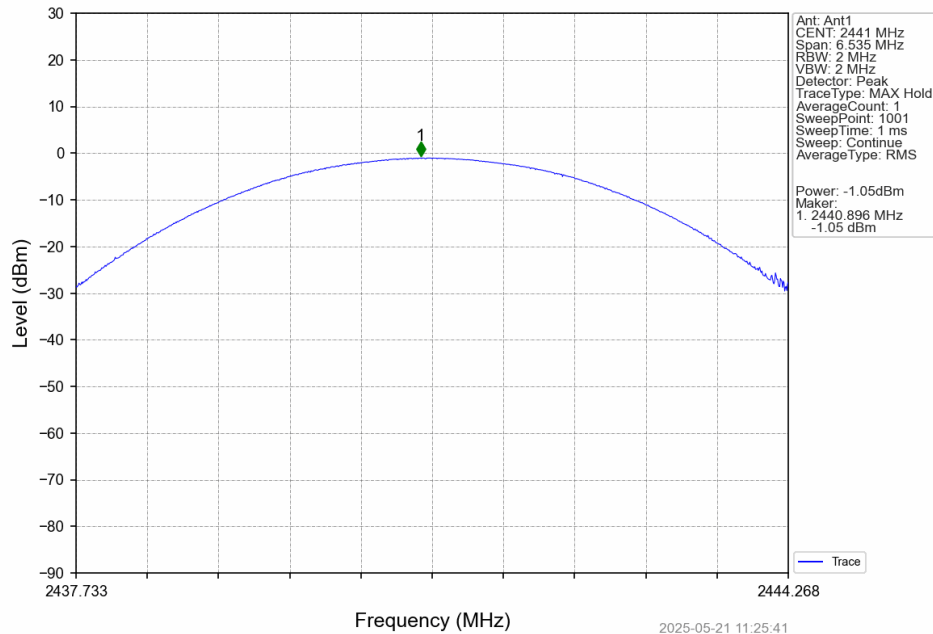
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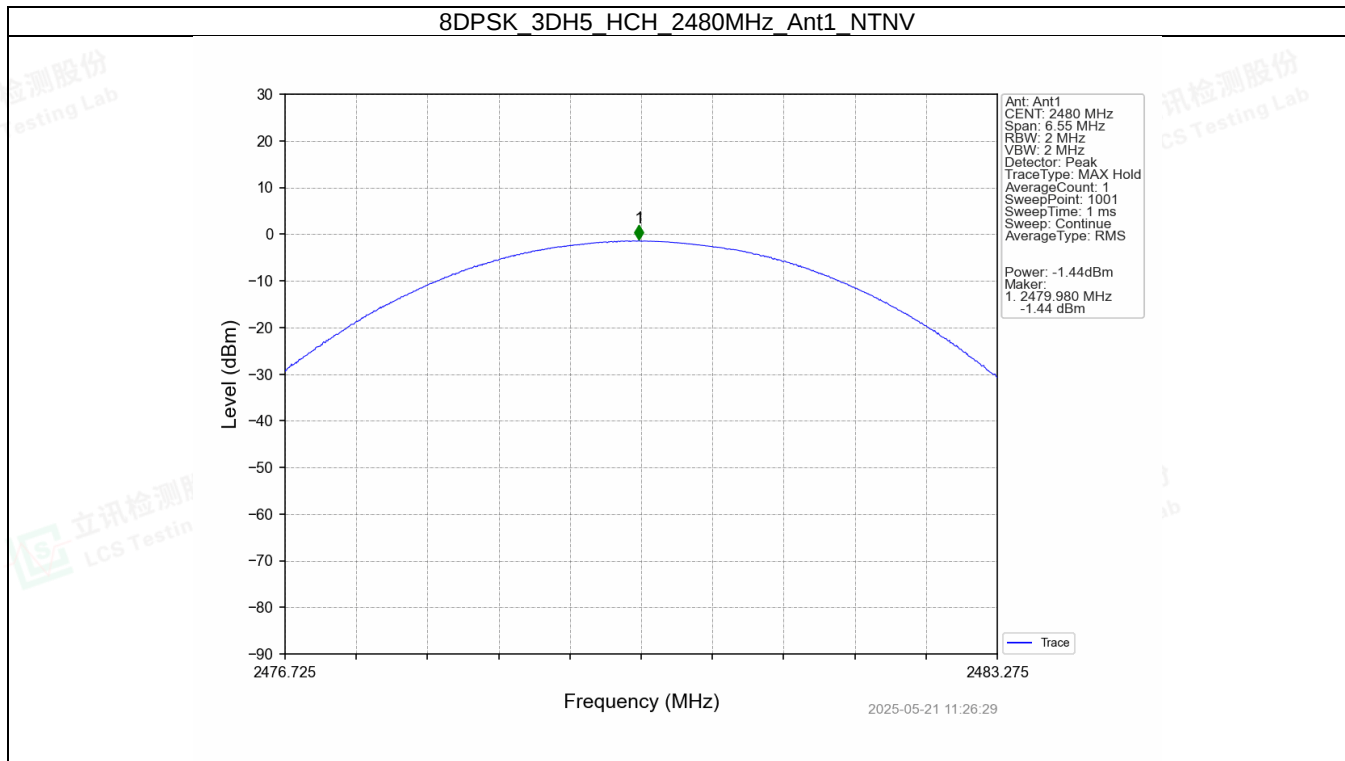
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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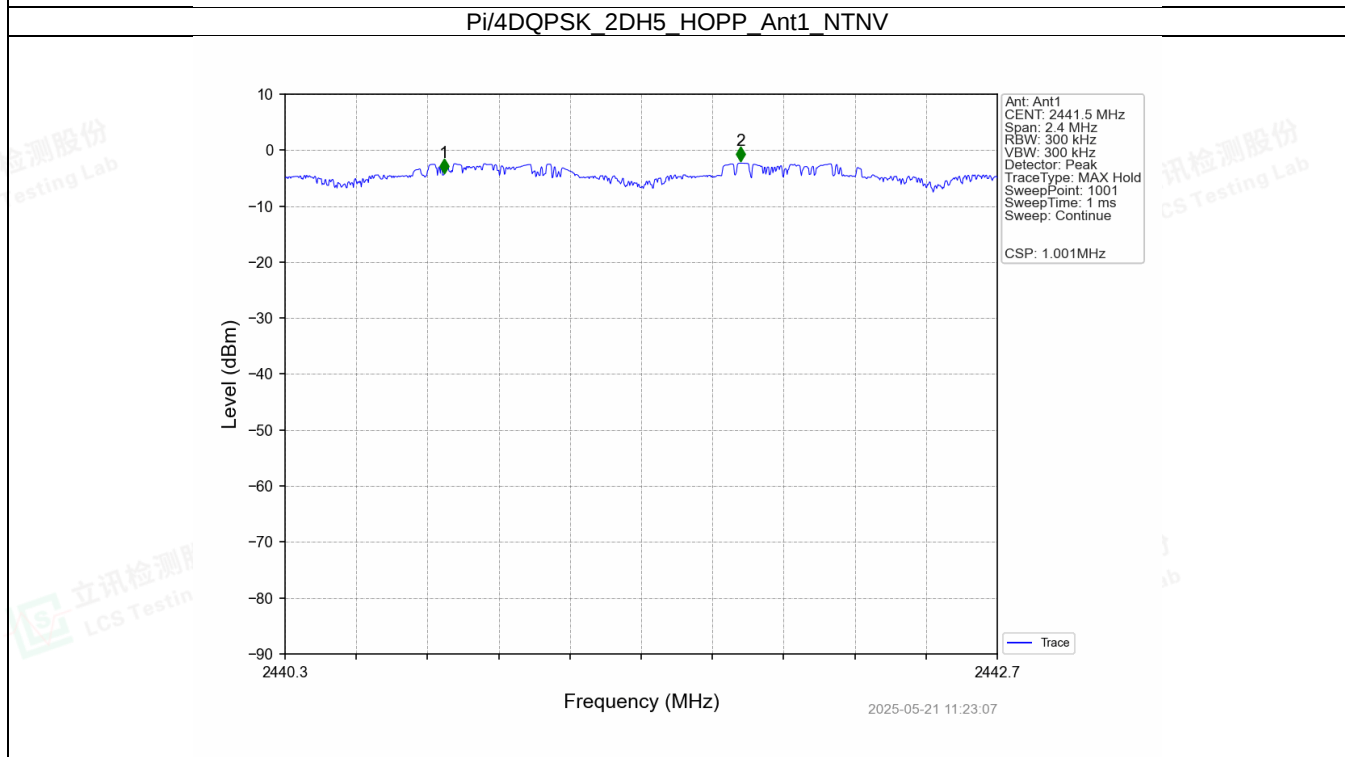
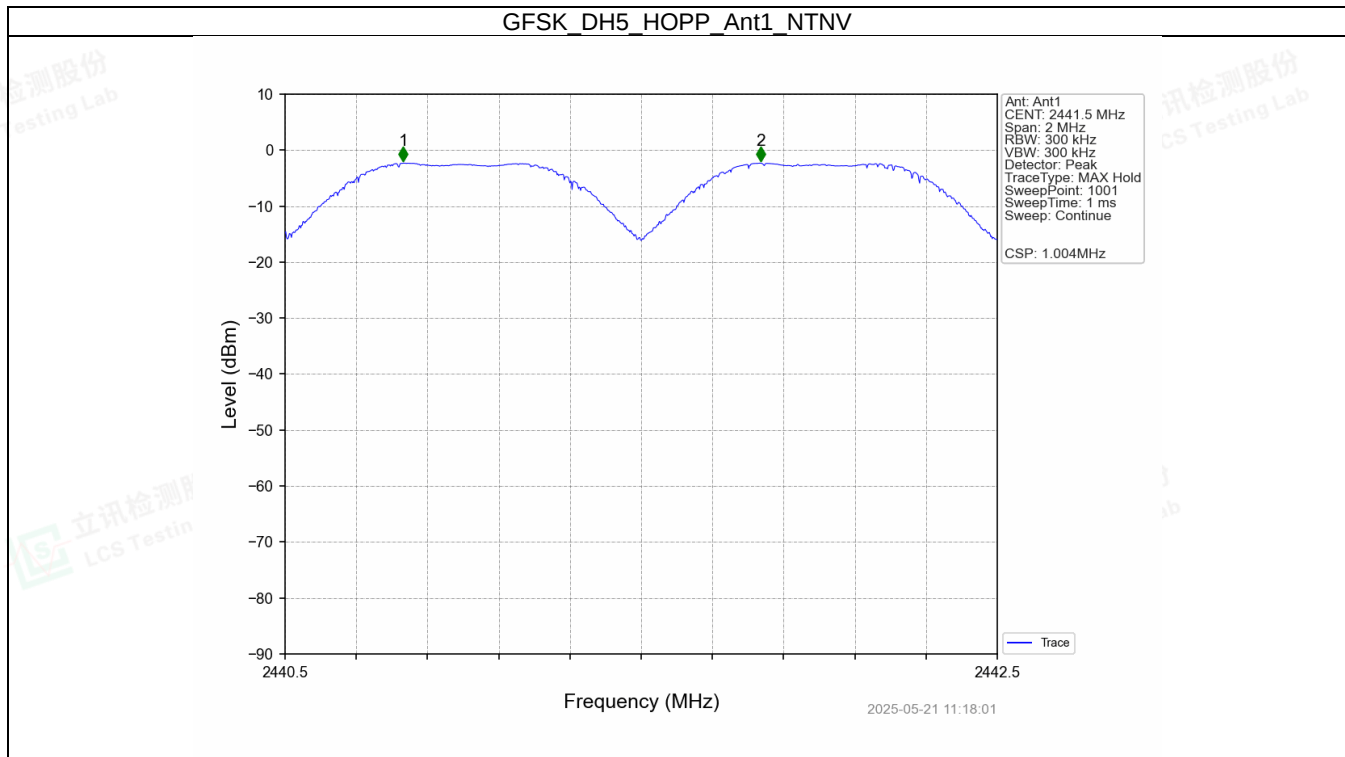


A.3 Carrier Frequency Separation

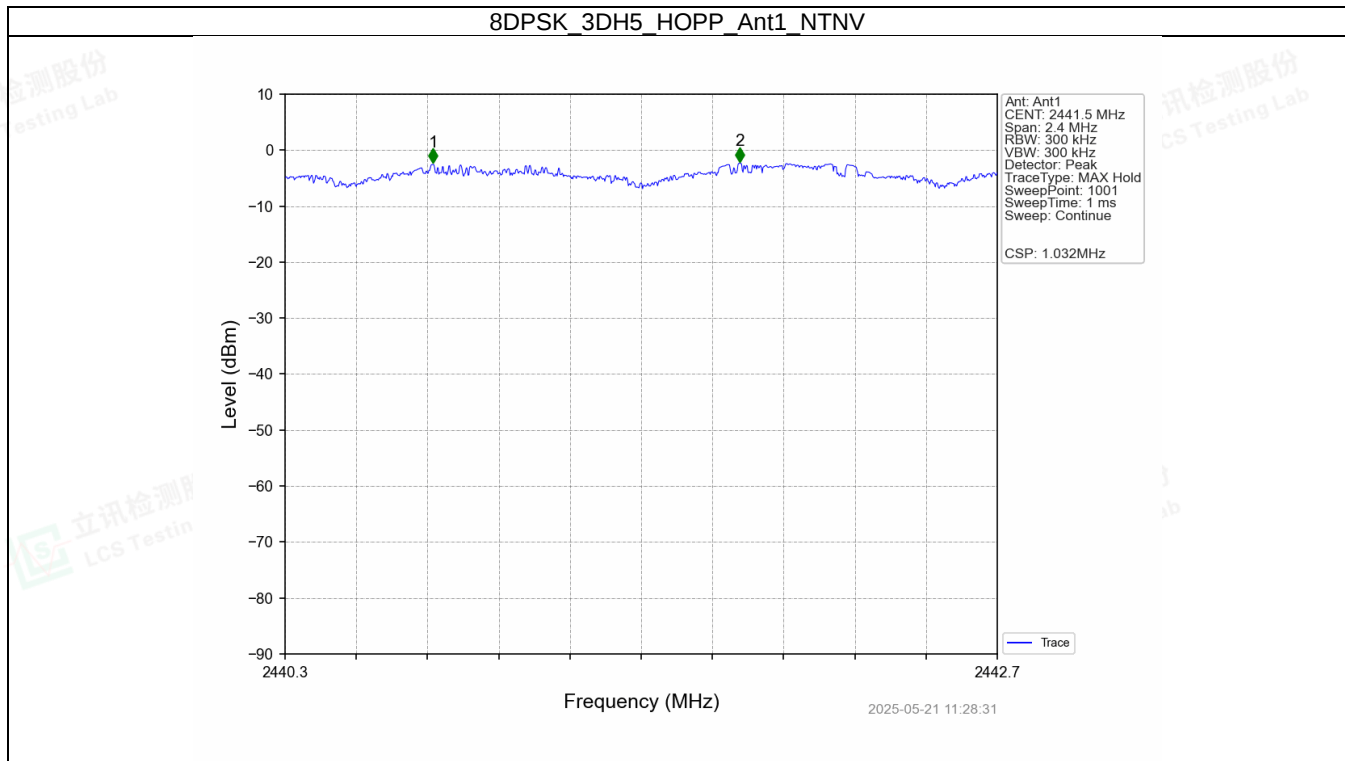
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Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.004	0.957	≥ 0.957	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.284	≥ 0.856	Pass
8DPSK	SISO	HOPP	3DH5	1.032	1.310	≥ 0.873	Pass



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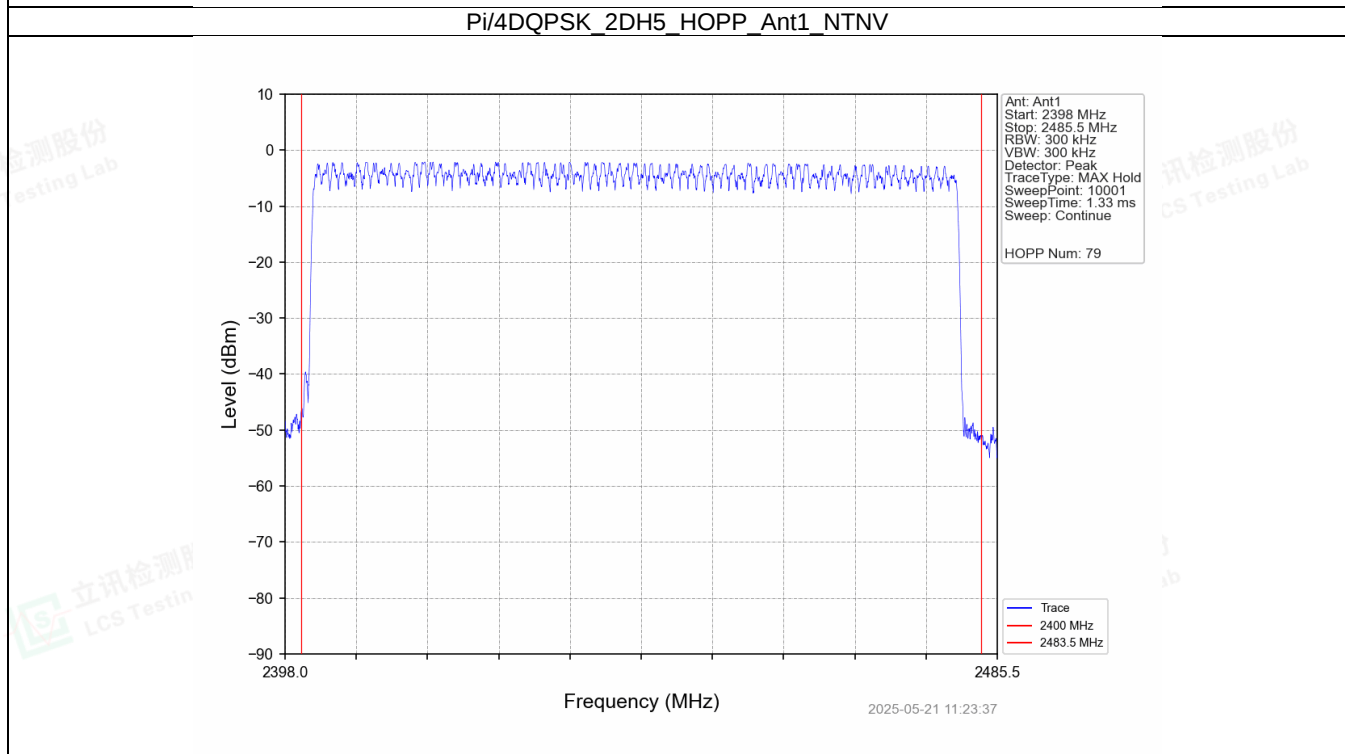
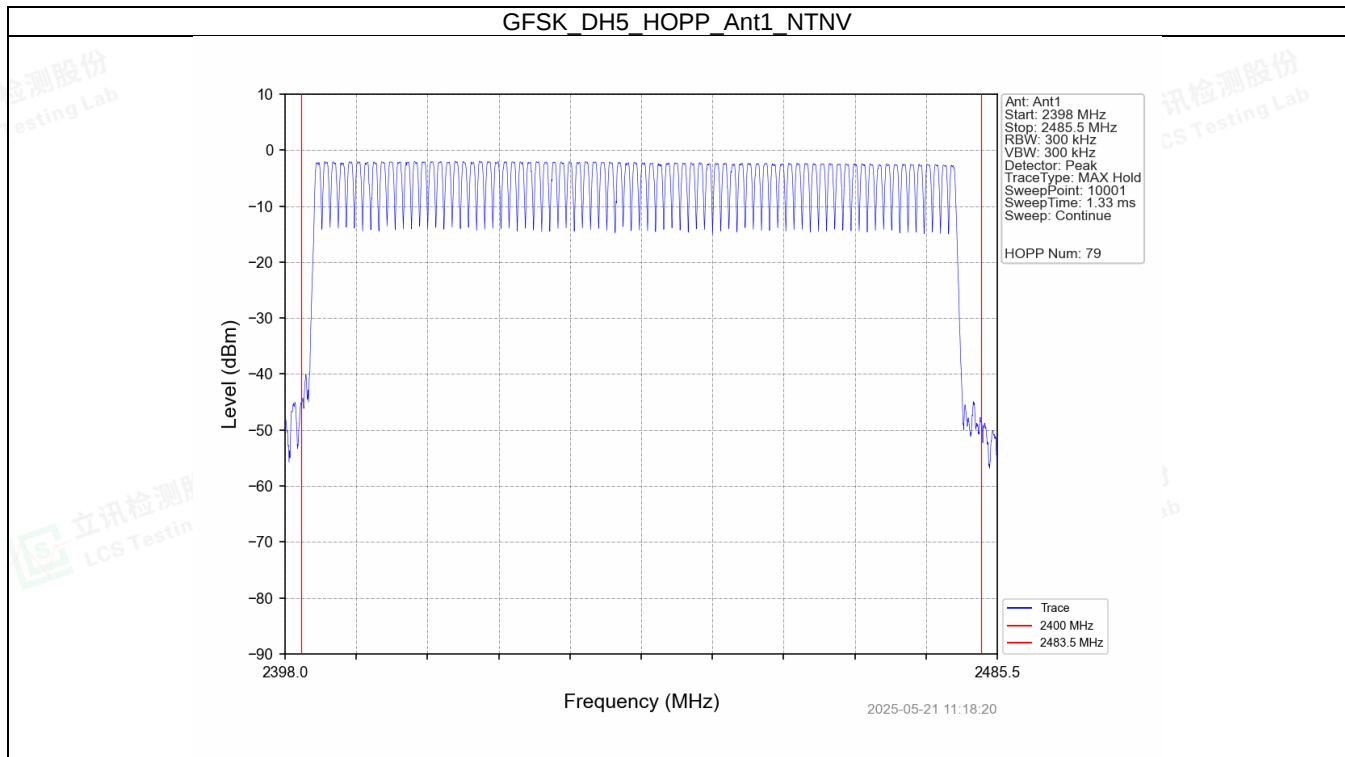


A.5 Number of Hopping Frequencies

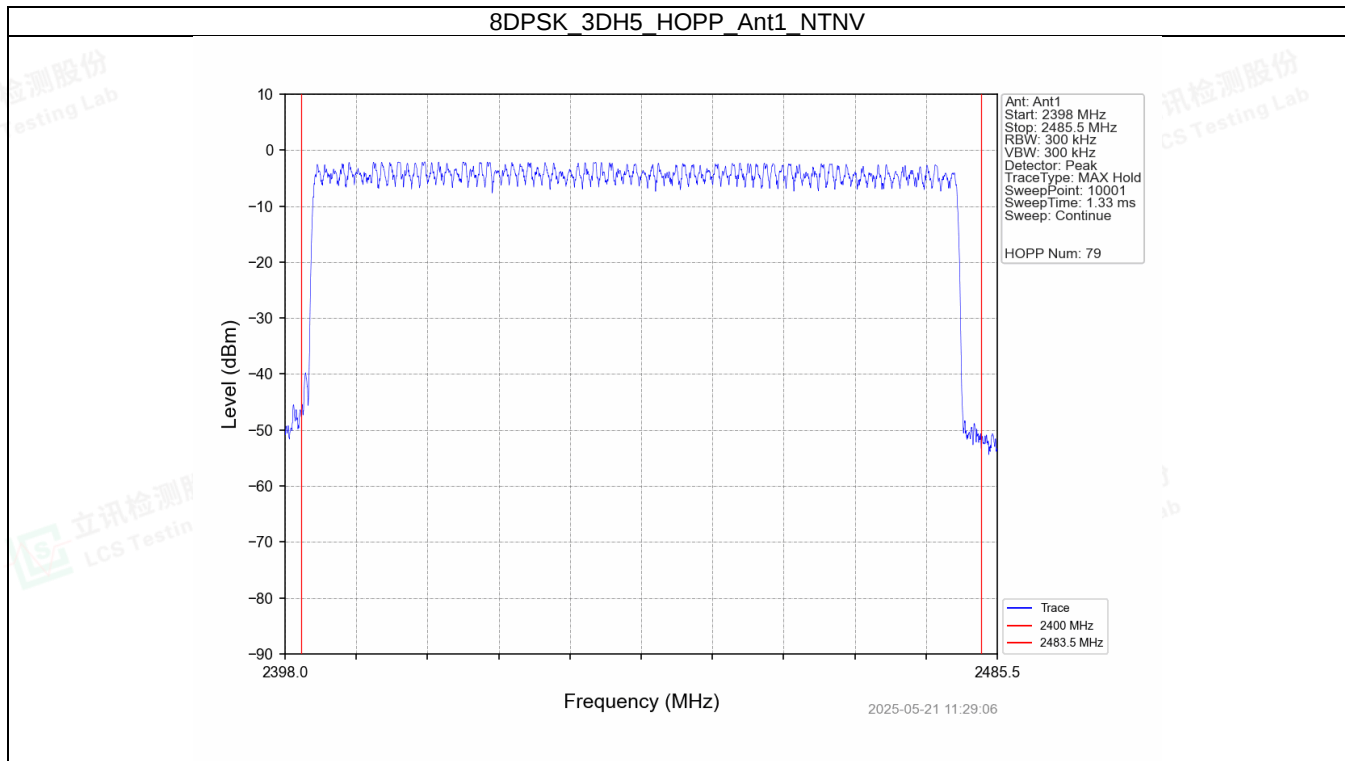
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	≥ 15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass
8DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass



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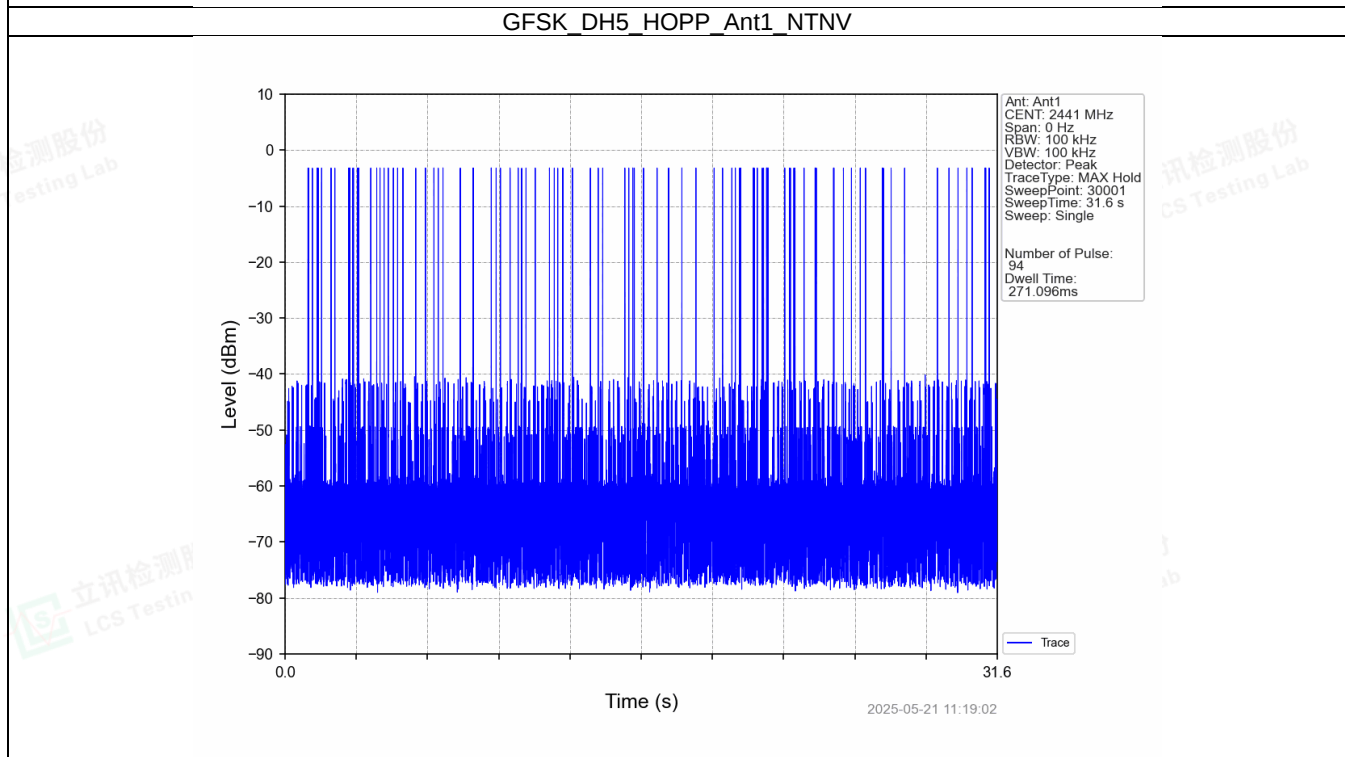
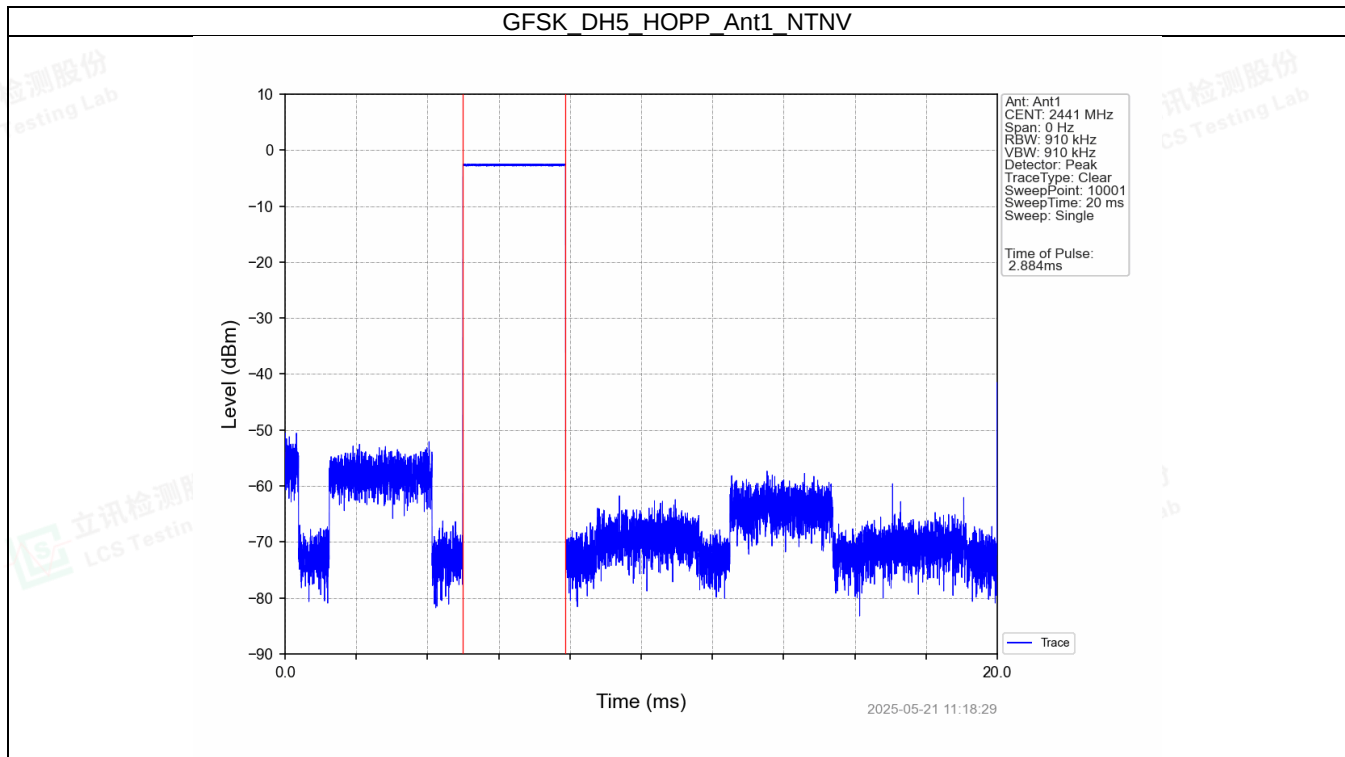


A.4 Time of Occupancy (Dwell Time)

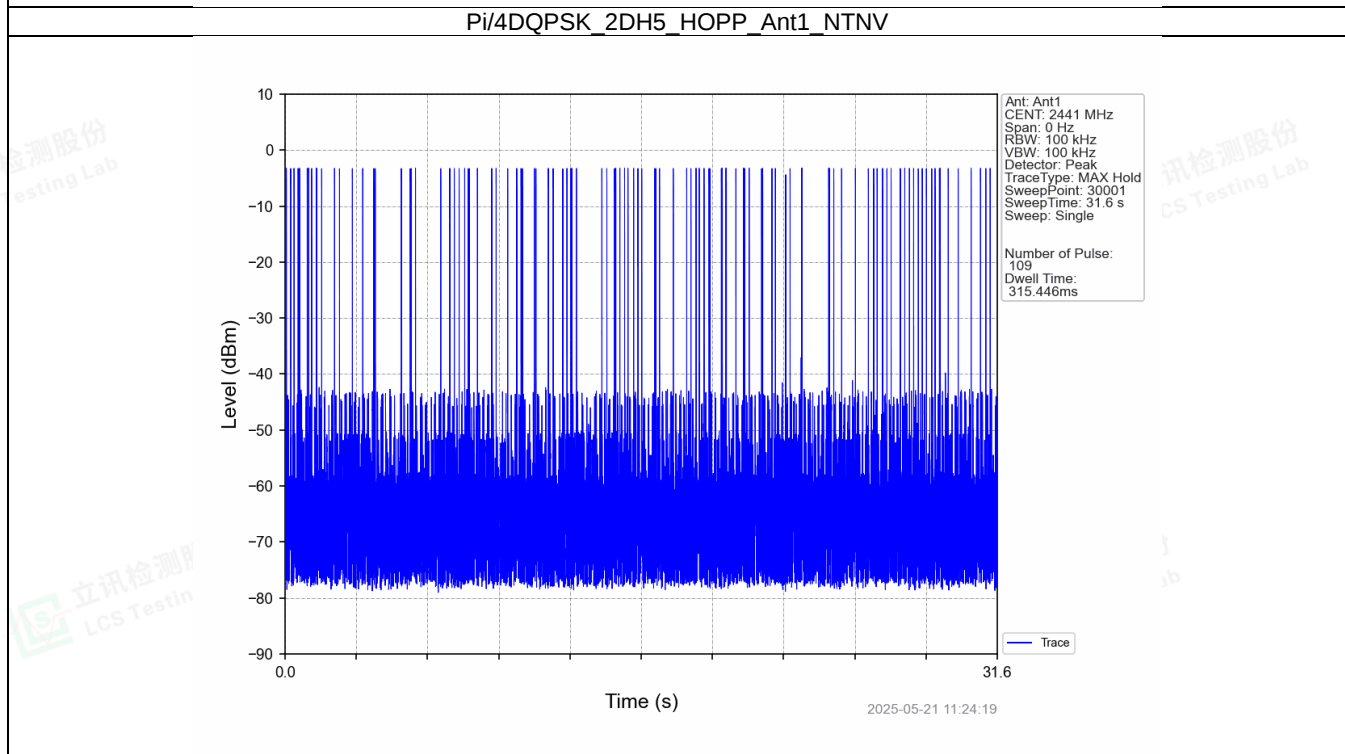
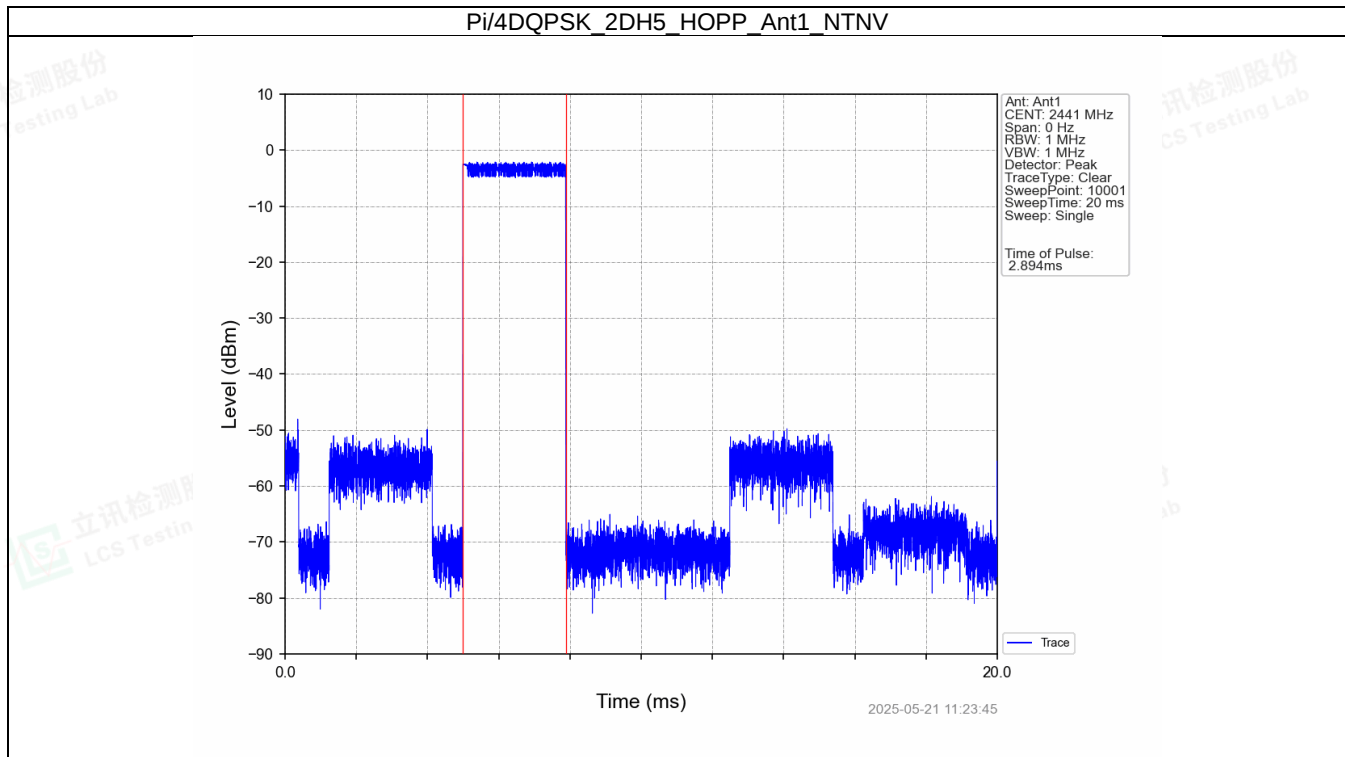
Ant1									
Mode	Tx Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH5	2.884	31.600	94	271.096	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	2.894	31.600	109	315.446	<=400	Pass
8DPSK	SISO	HOPP	3DH5	2.894	31.600	109	315.446	<=400	Pass



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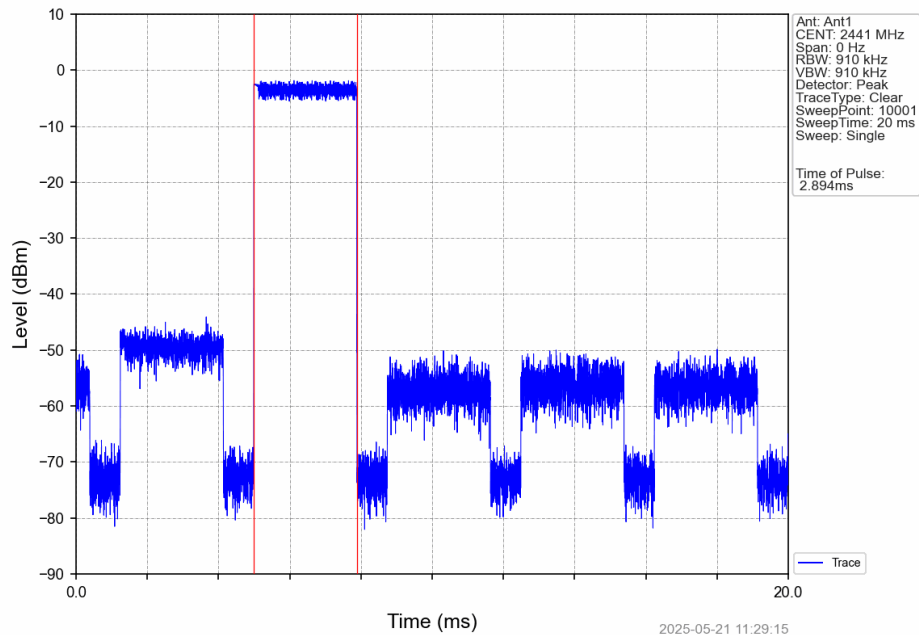
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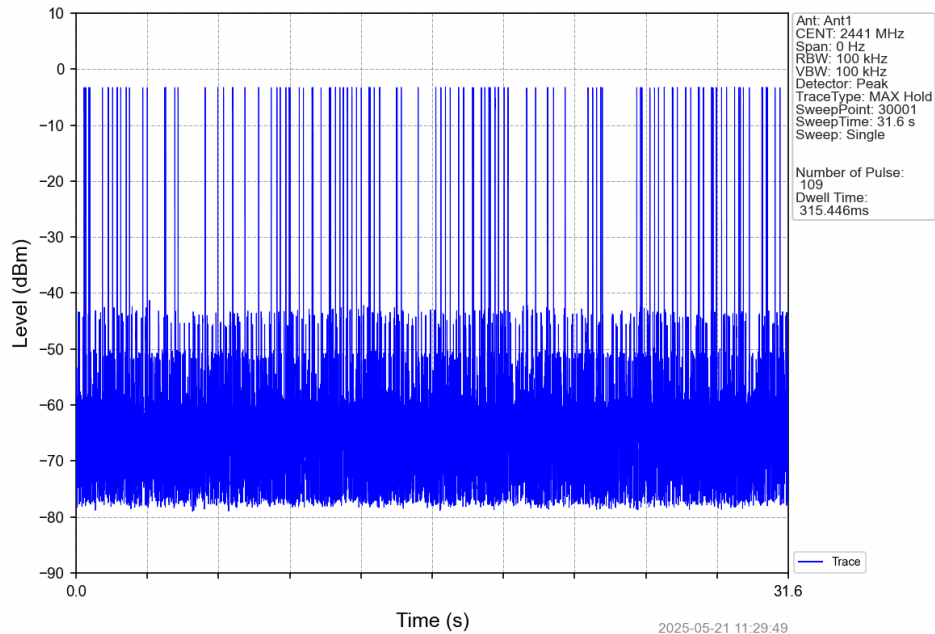
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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A.6 Band Edge

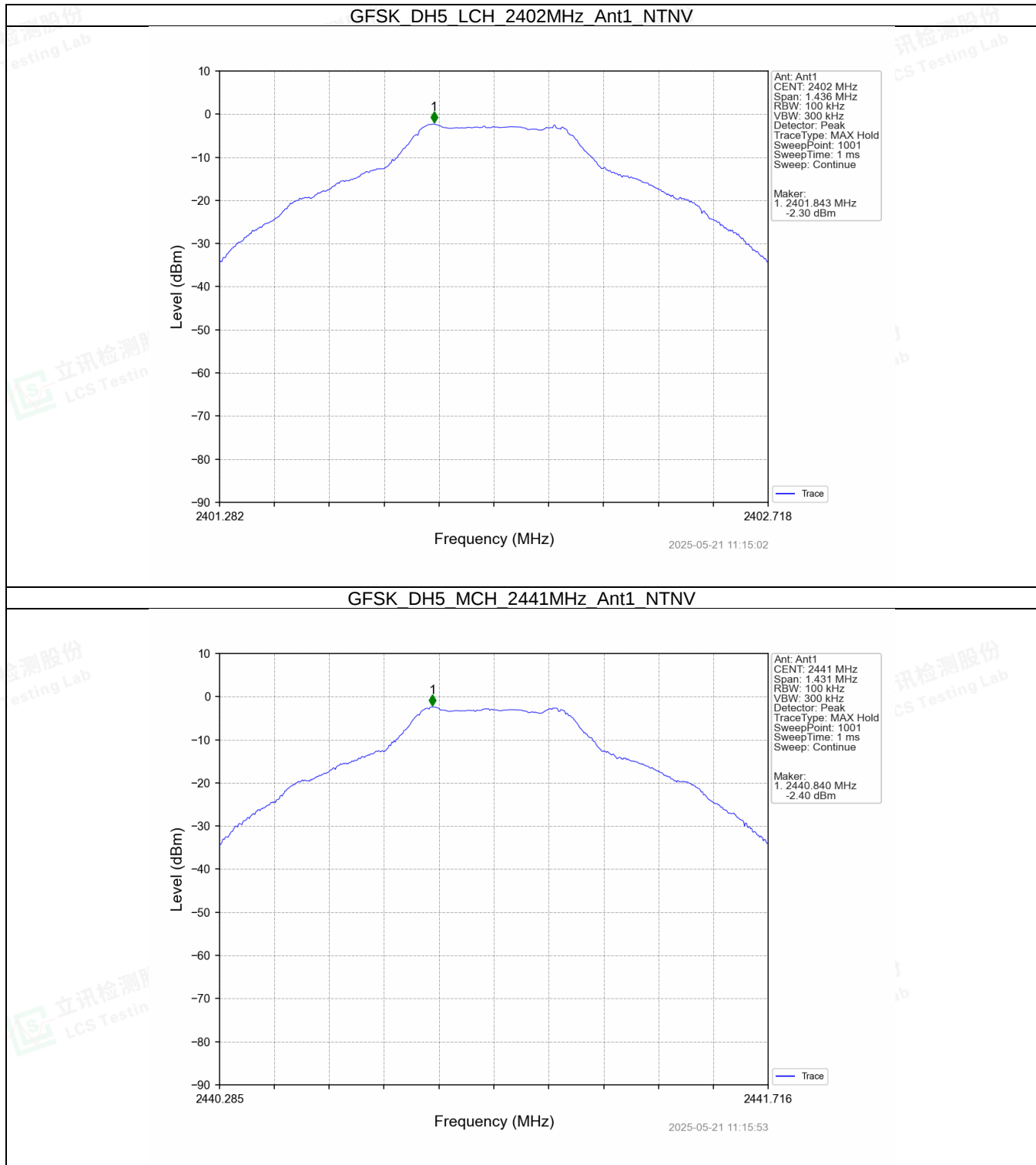
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-2.30	-22.30	Pass
		2441	DH5	1	-2.30	-22.30	Pass
		2480	DH5	1	-2.30	-22.30	Pass
		HOPP	DH5	1	-2.30	-22.30	Pass
					-2.30	-22.30	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-2.37	-22.37	Pass
		2441	2DH5	1	-2.37	-22.37	Pass
		2480	2DH5	1	-2.37	-22.37	Pass
		HOPP	2DH5	1	-2.37	-22.37	Pass
					-2.37	-22.37	Pass
8DPSK	SISO	2402	3DH5	1	-2.31	-22.31	Pass
		2441	3DH5	1	-2.31	-22.31	Pass
		2480	3DH5	1	-2.31	-22.31	Pass
		HOPP	3DH5	1	-2.31	-22.31	Pass
					-2.31	-22.31	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.							



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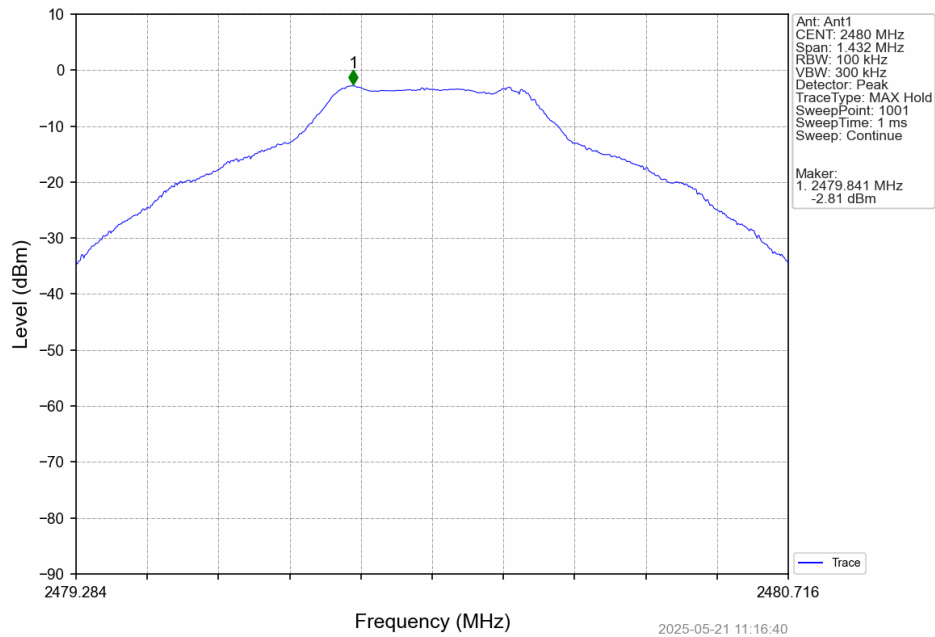
Ref



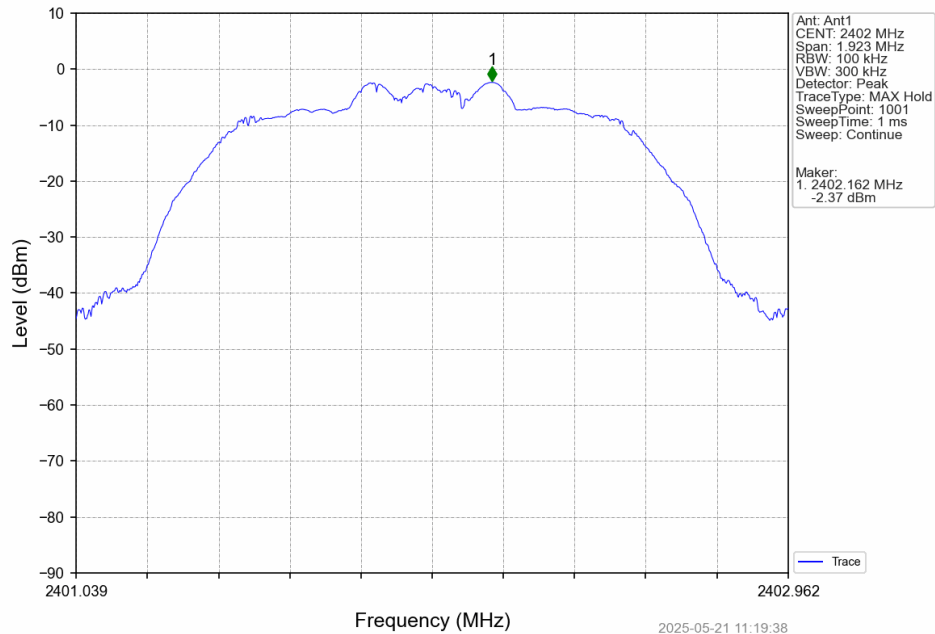
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



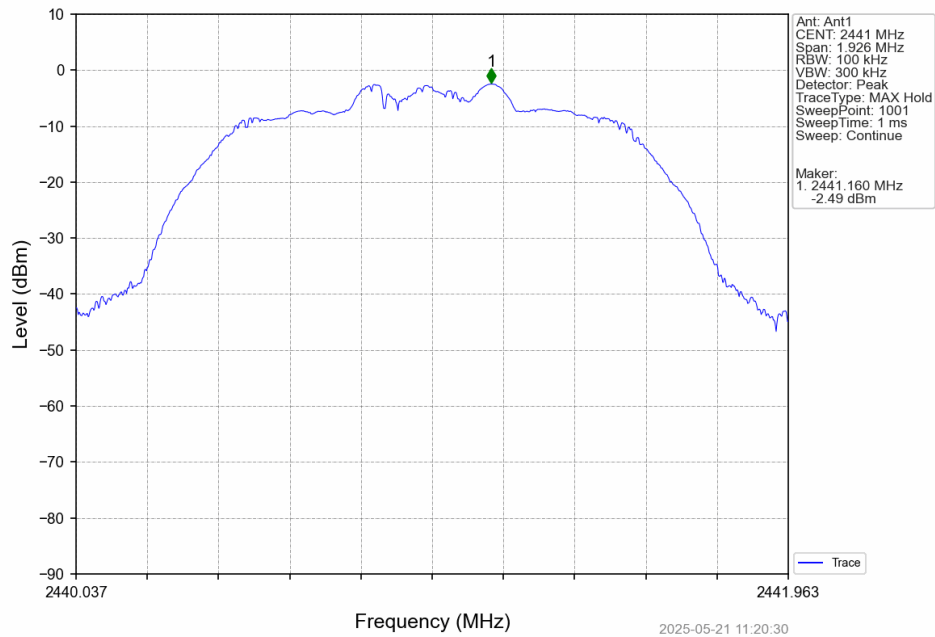
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



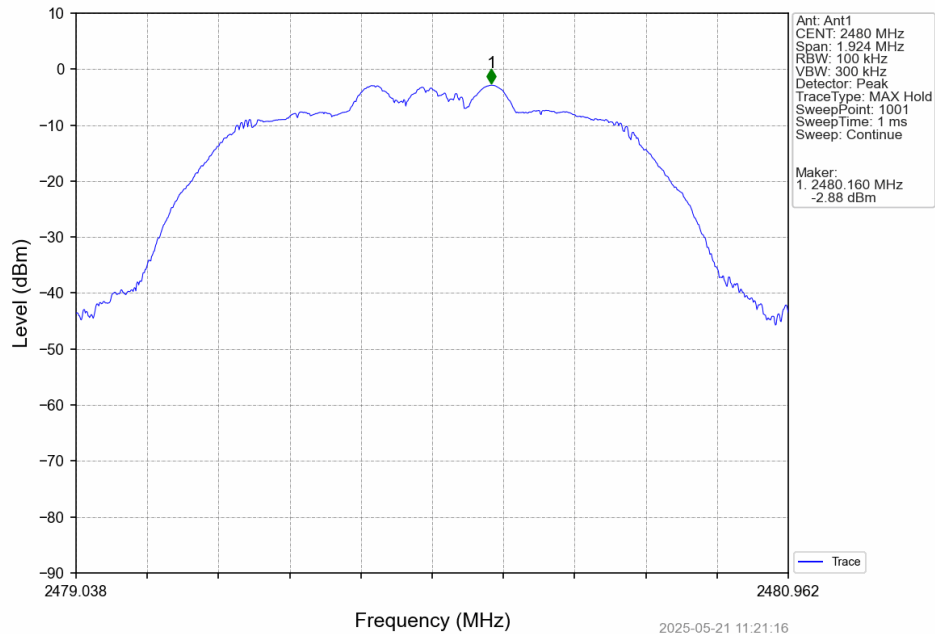
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



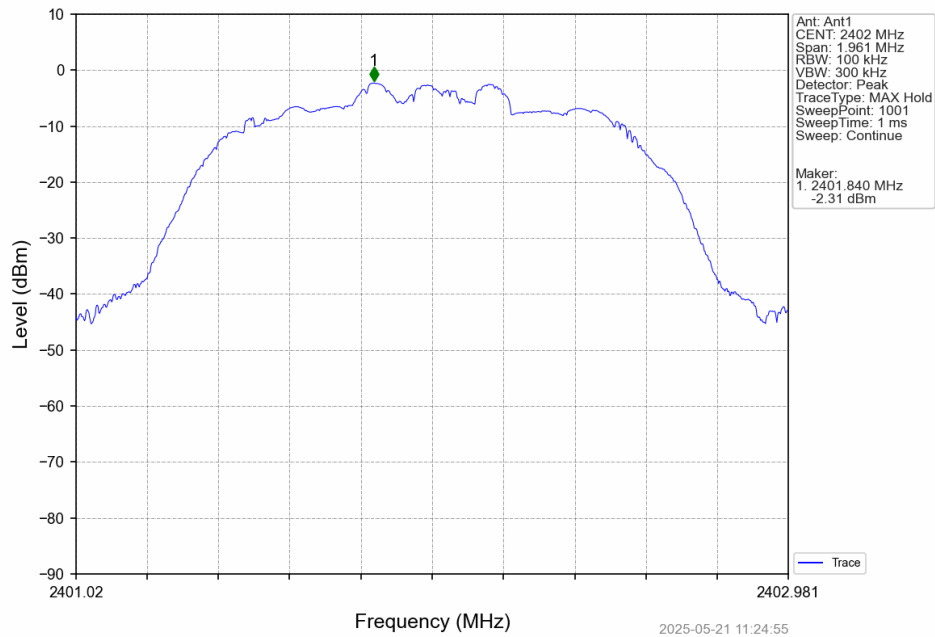
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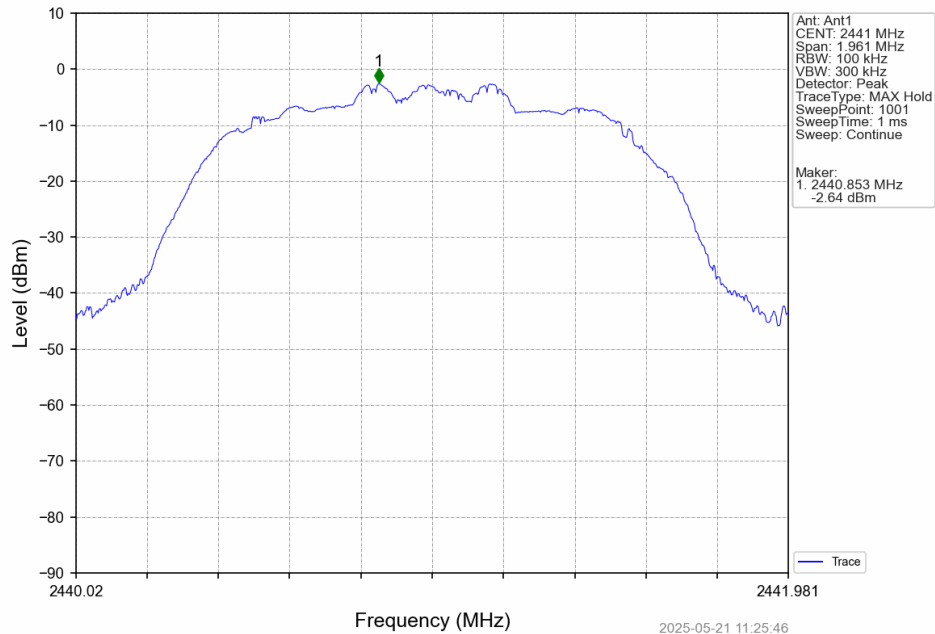
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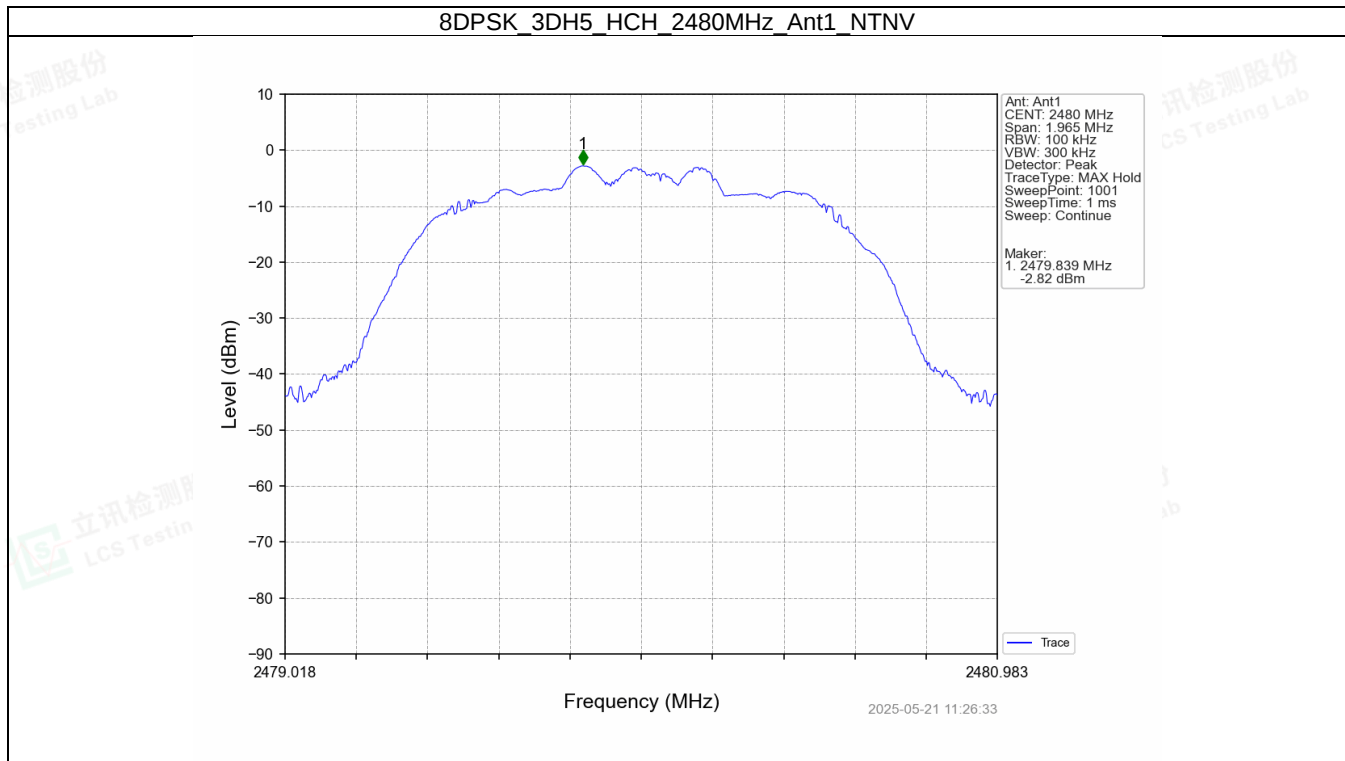
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



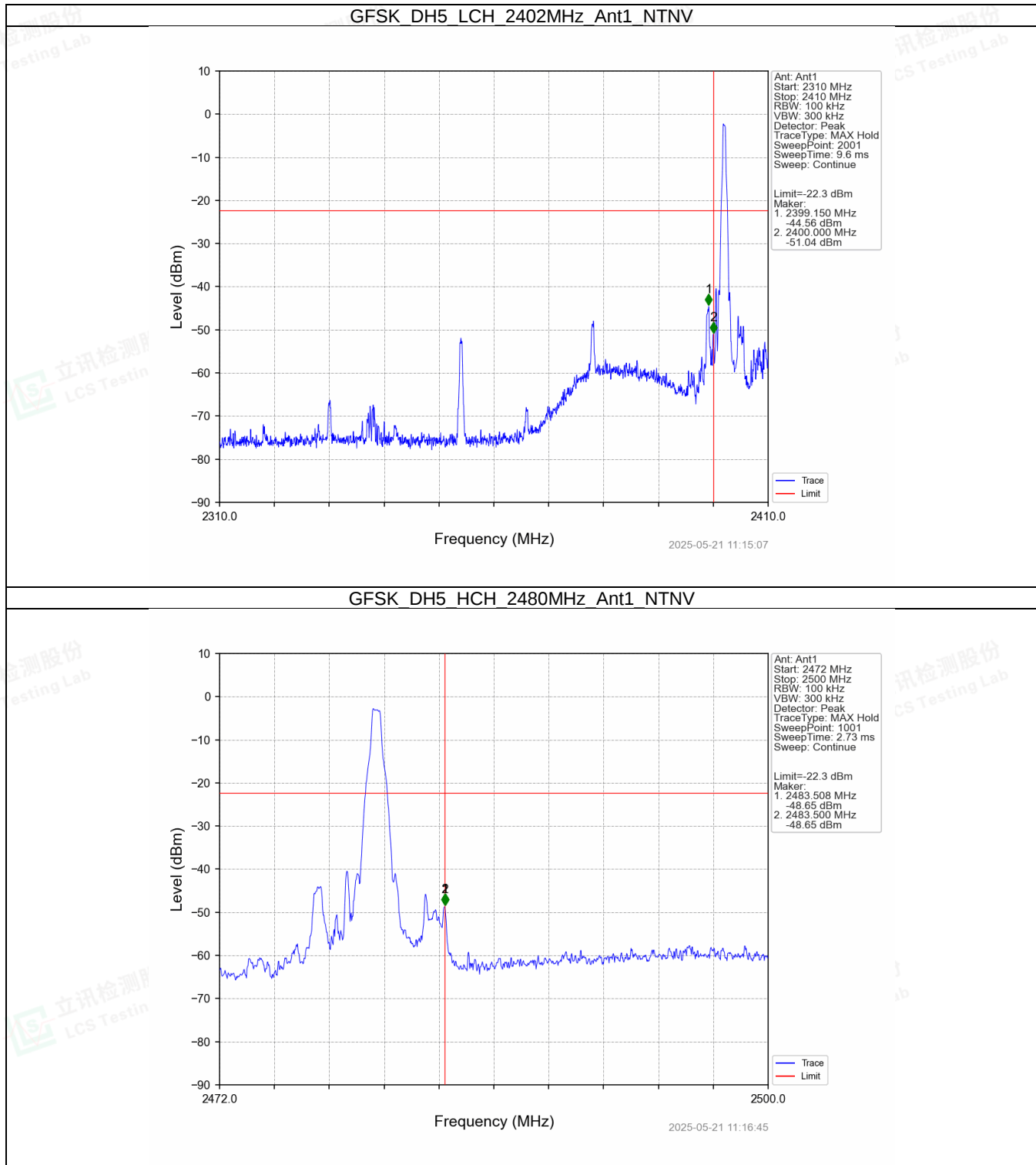
Shenzhen LCS Compliance Testing Laboratory Ltd.
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Baoan District, Shenzhen, 518000, China
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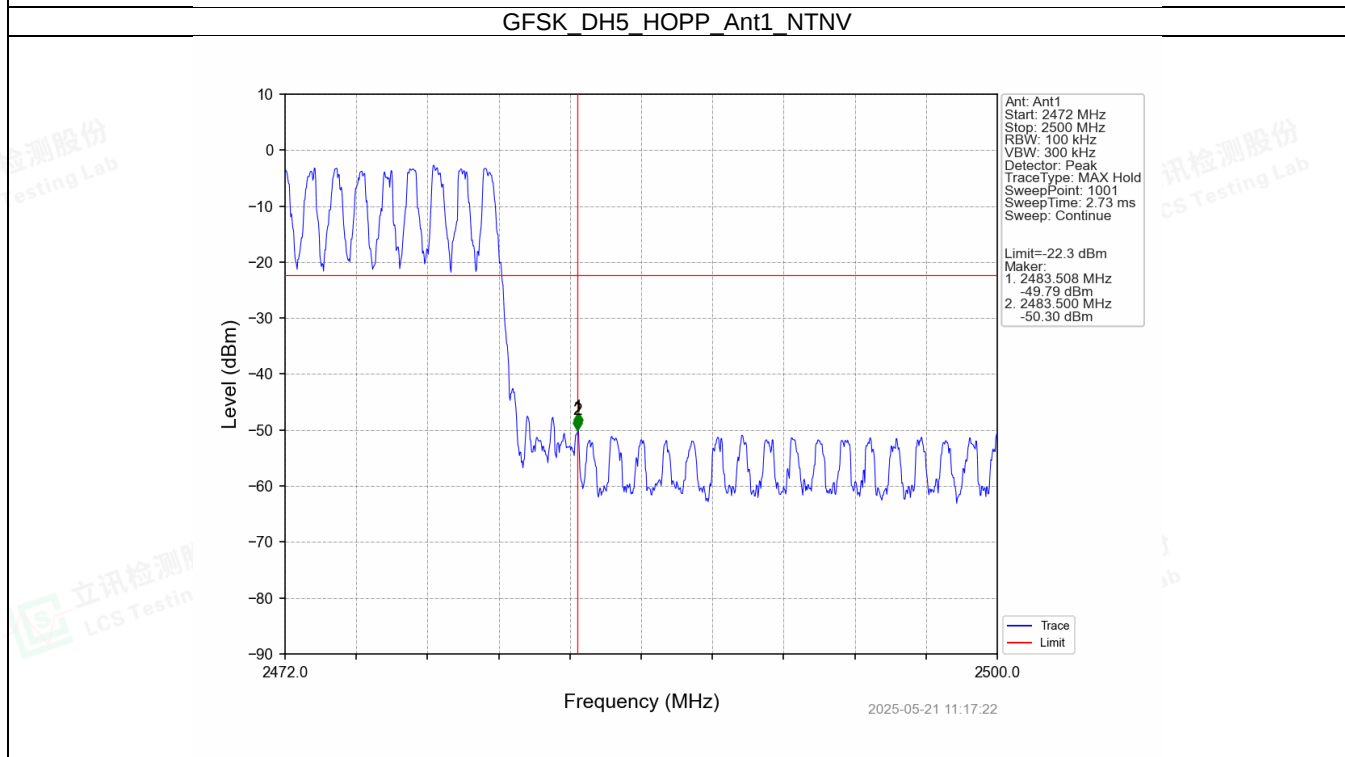
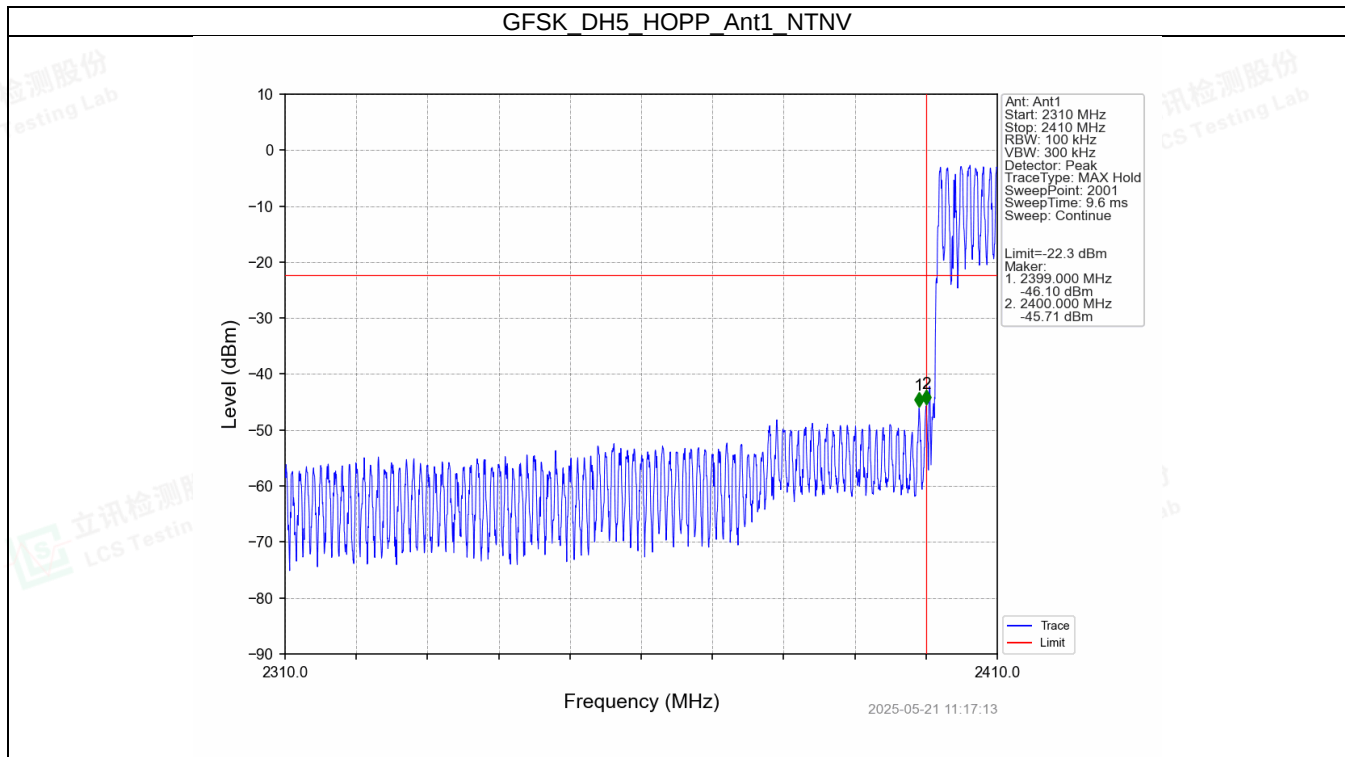
Shenzhen LCS Compliance Testing Laboratory Ltd.
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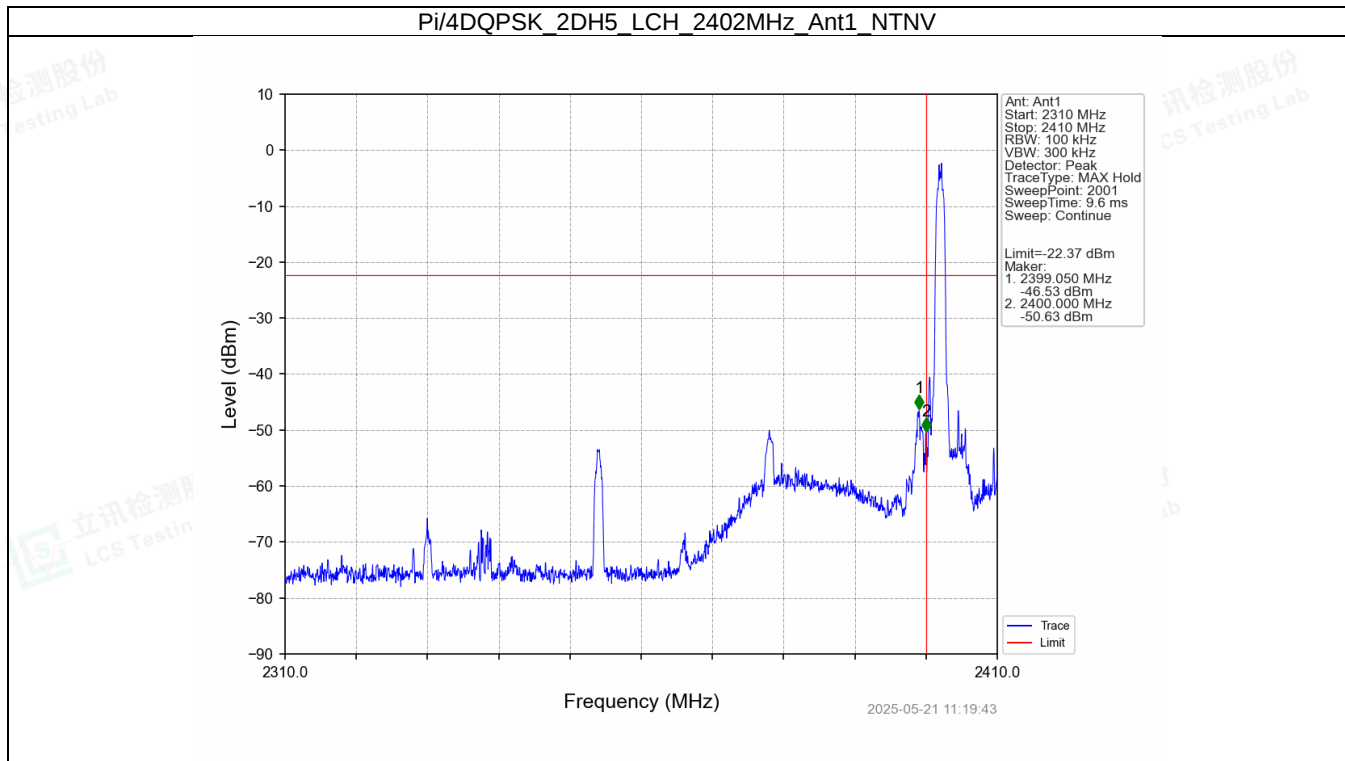
Band Edge



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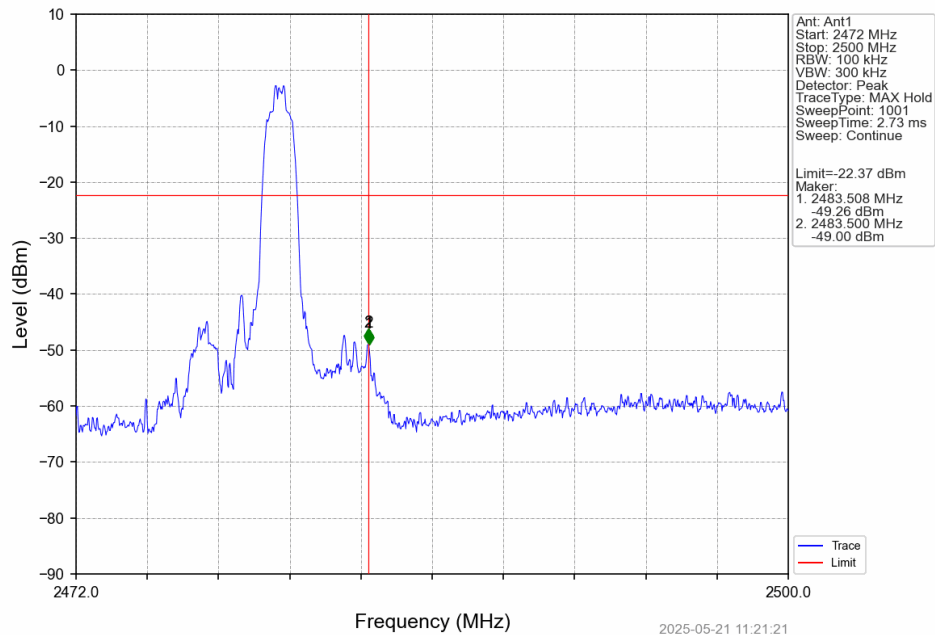
Shenzhen LCS Compliance Testing Laboratory Ltd.
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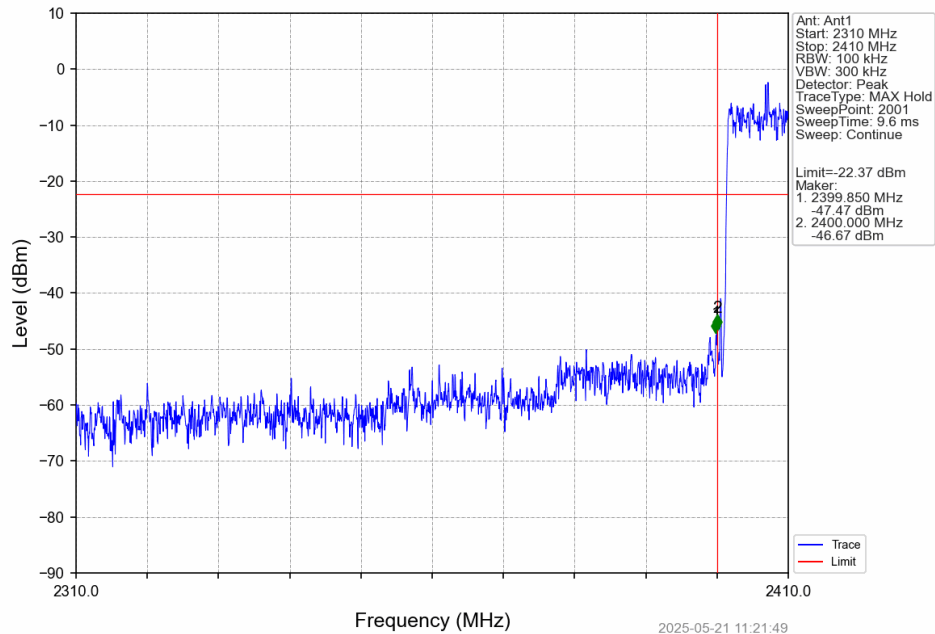
Shenzhen LCS Compliance Testing Laboratory Ltd.
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



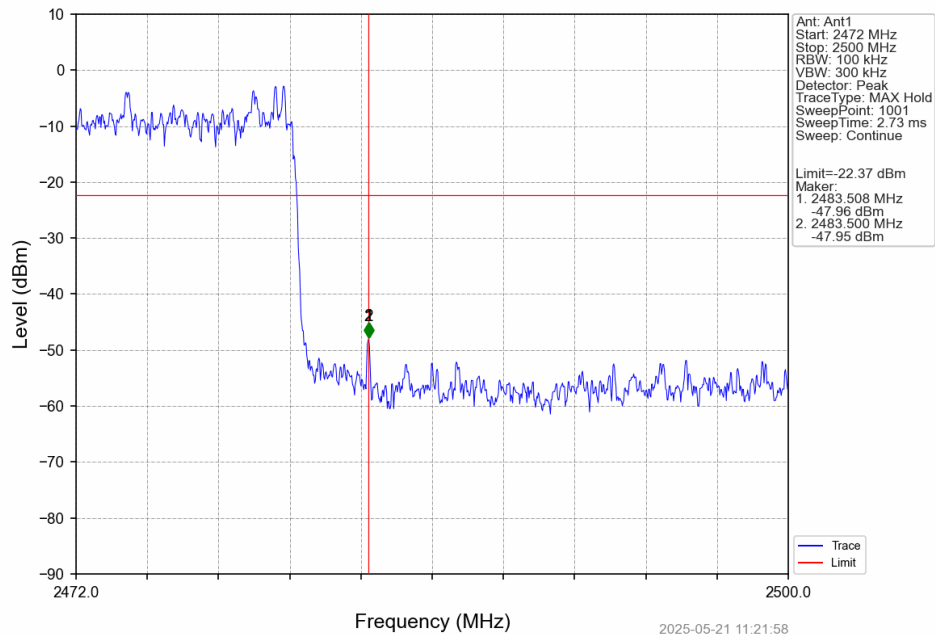
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



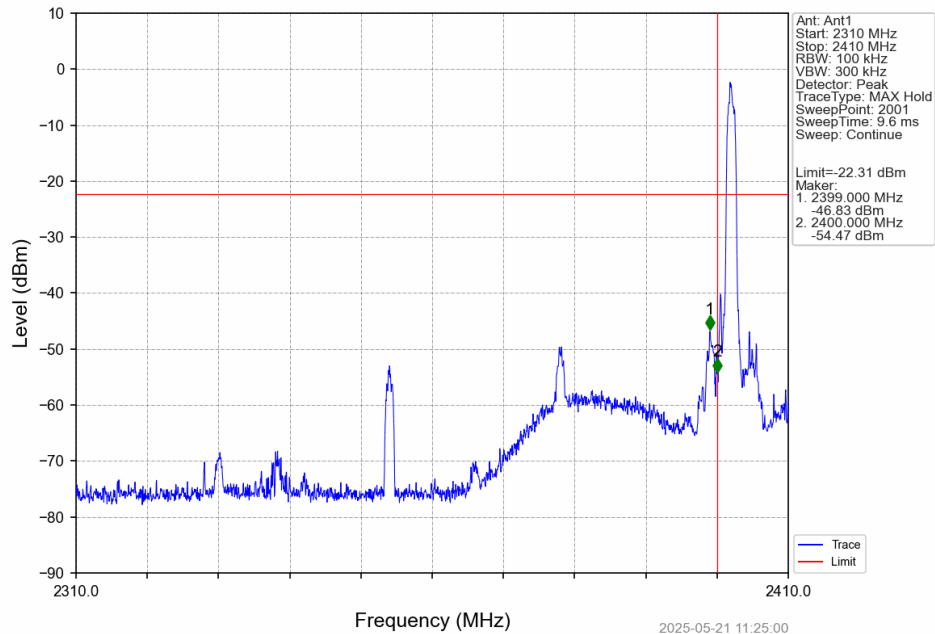
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



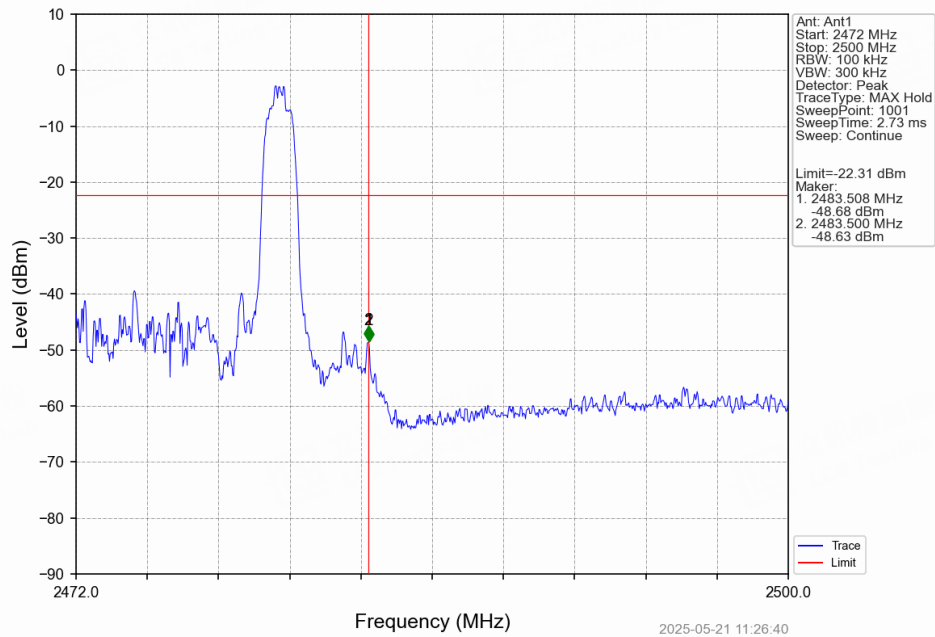
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



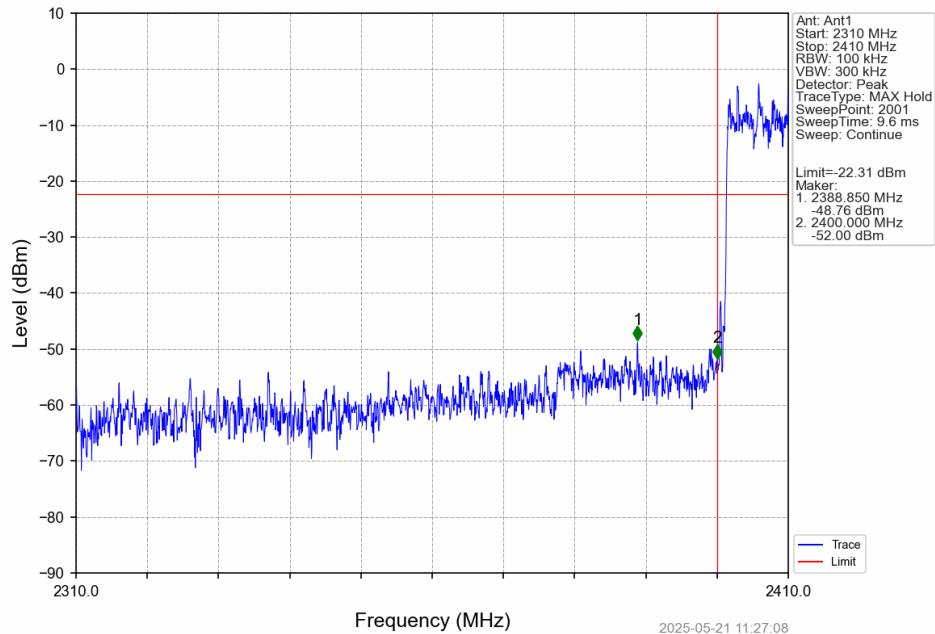
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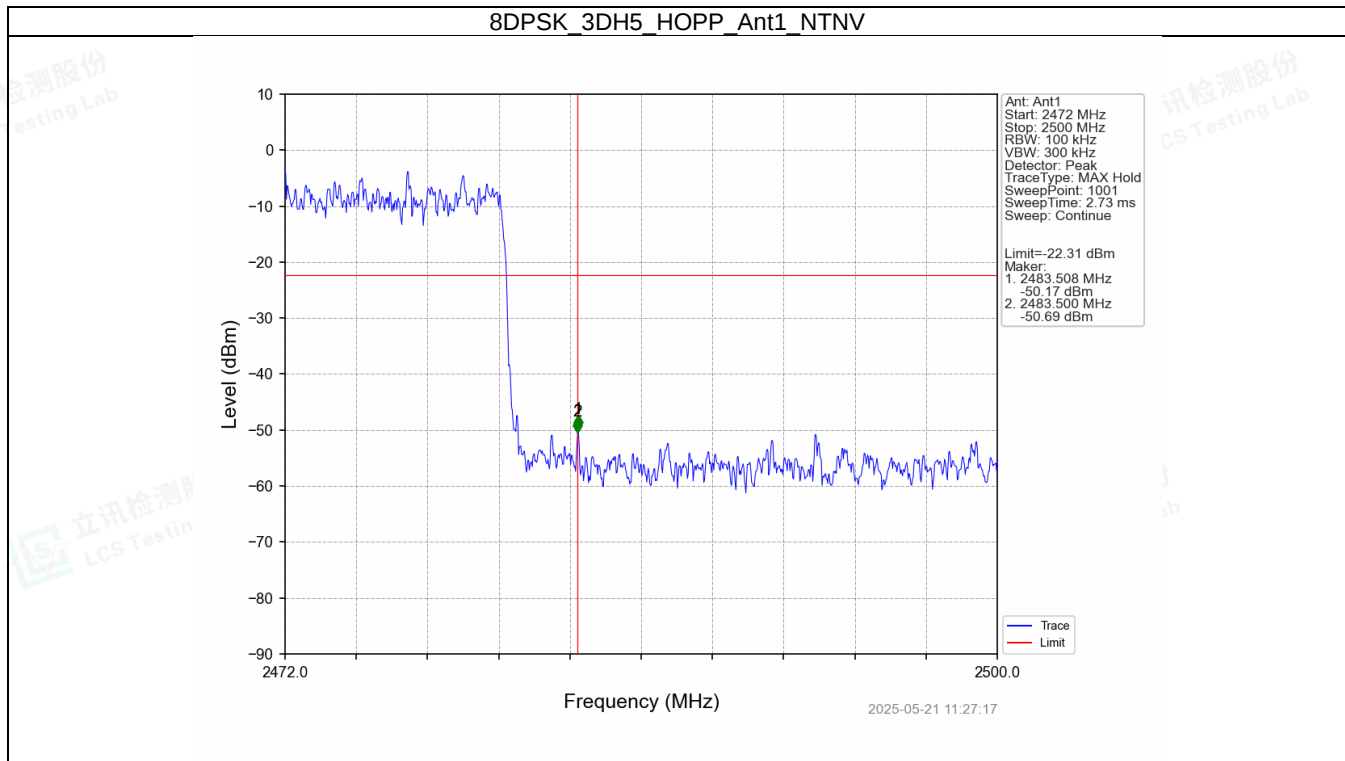
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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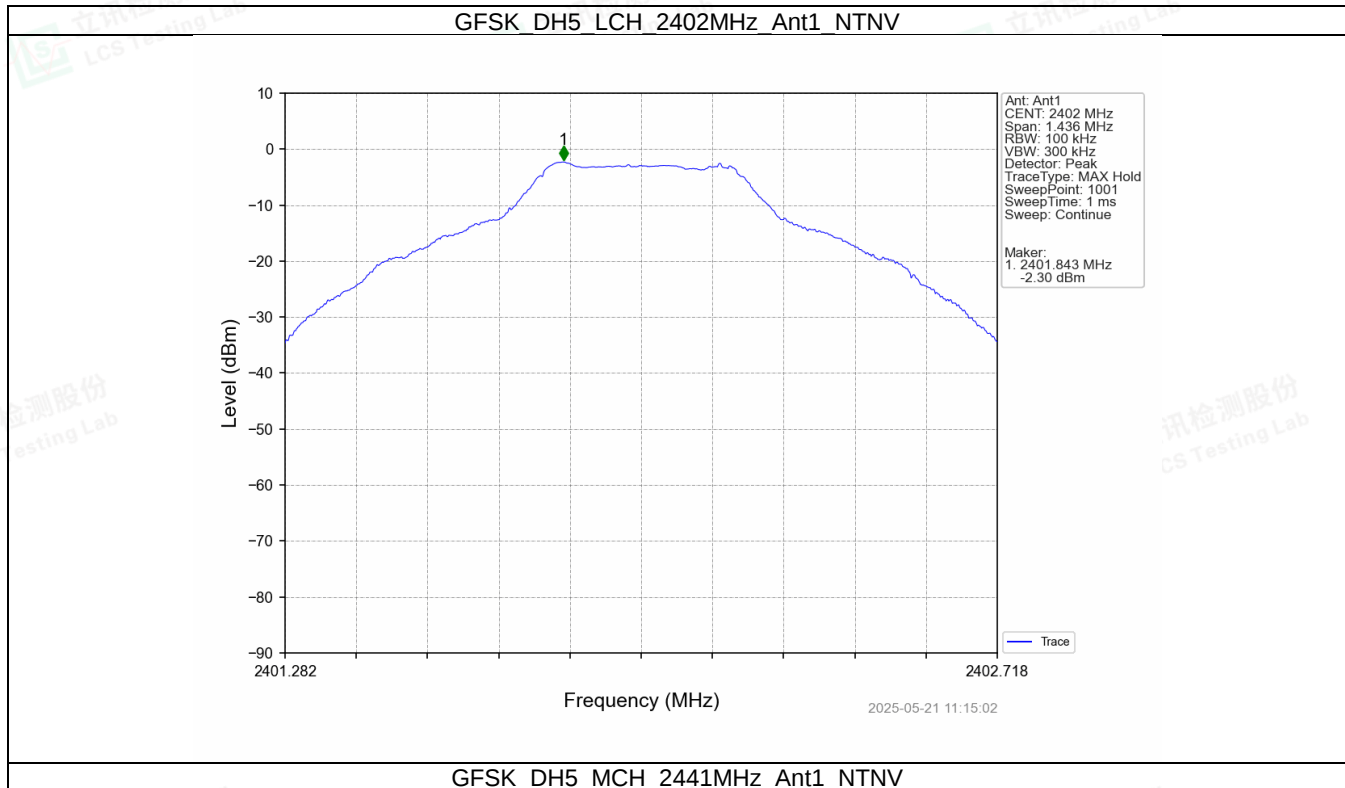


A.7 Conducted RF Spurious Emission

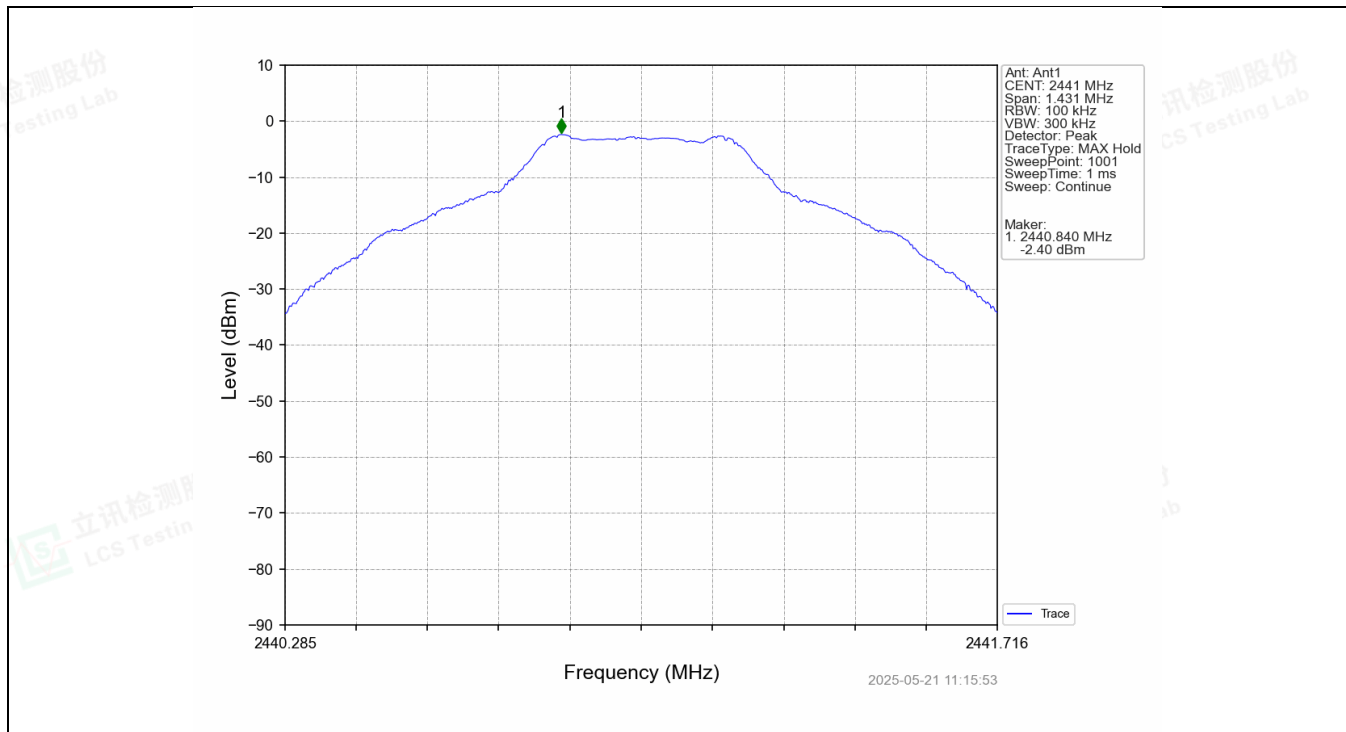
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-2.30
		2441	DH5	1	-2.40
		2480	DH5	1	-2.81
Pi/4DQPSK	SISO	2402	2DH5	1	-2.37
		2441	2DH5	1	-2.49
		2480	2DH5	1	-2.88
8DPSK	SISO	2402	3DH5	1	-2.31
		2441	3DH5	1	-2.64
		2480	3DH5	1	-2.82

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



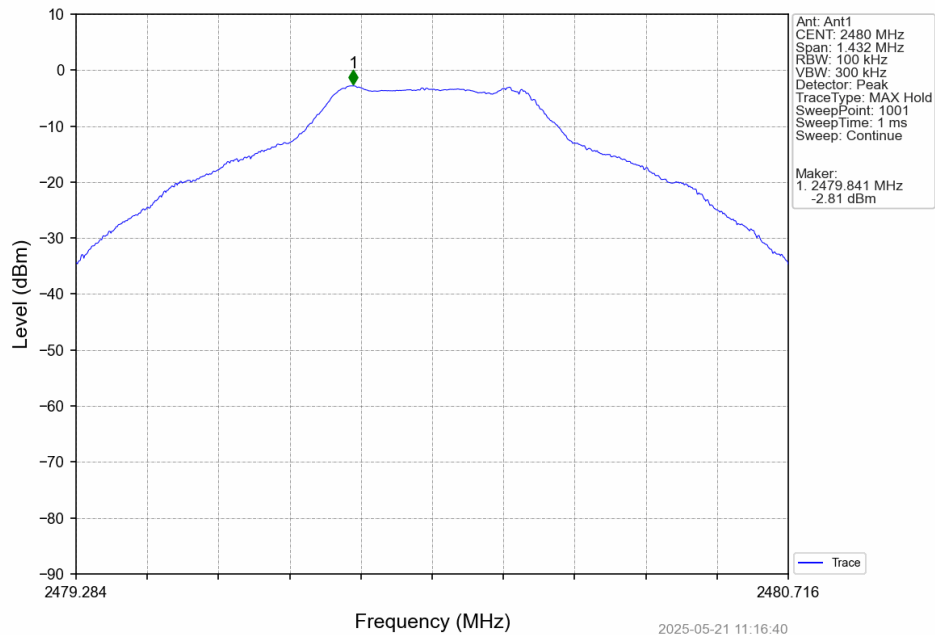
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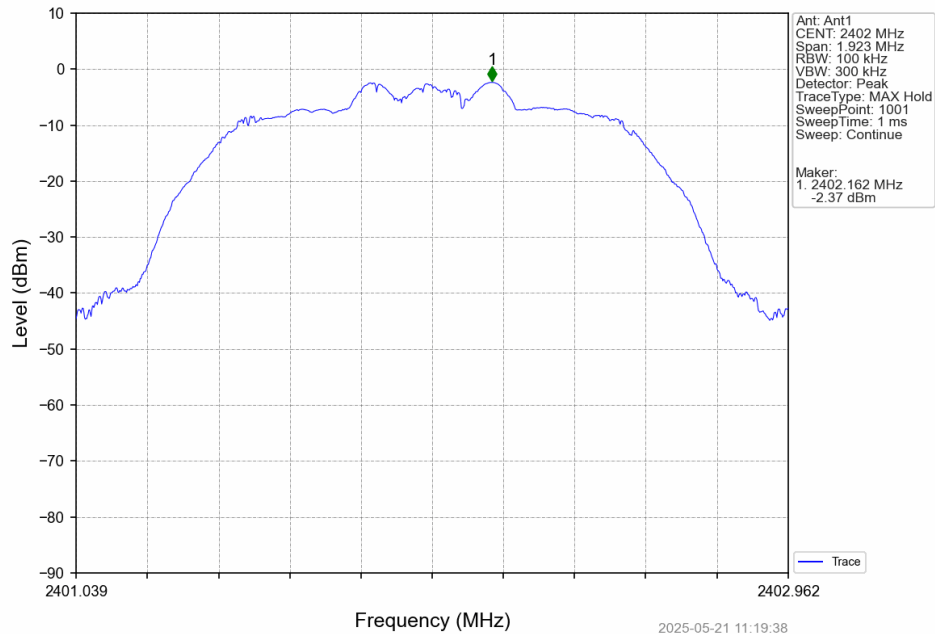
Shenzhen LCS Compliance Testing Laboratory Ltd.
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



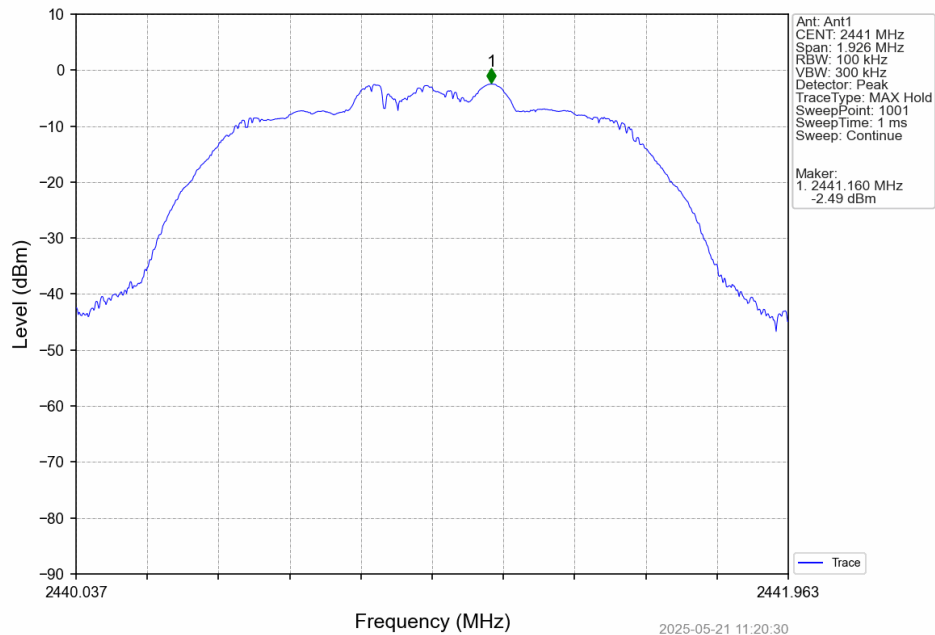
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



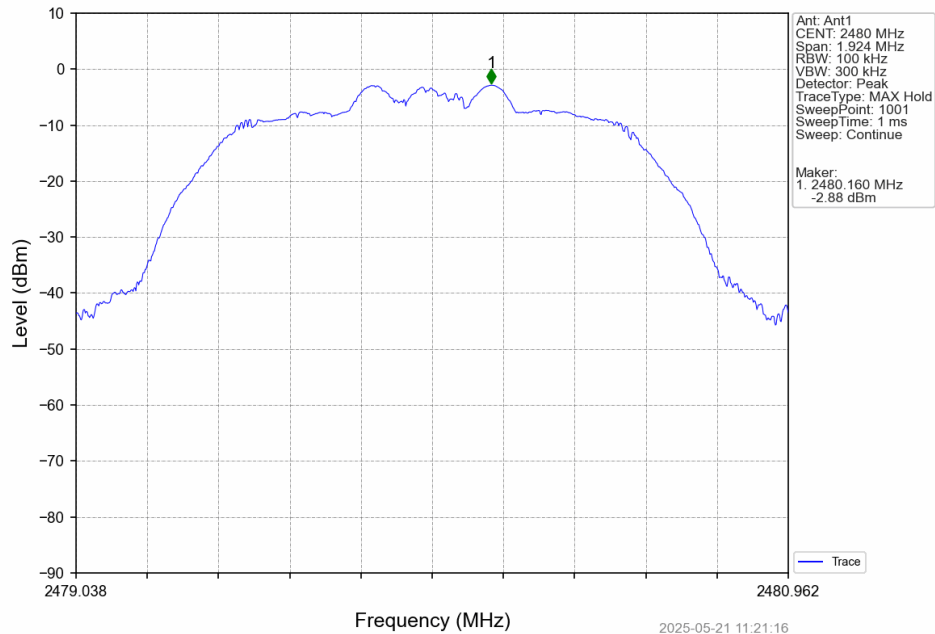
Shenzhen LCS Compliance Testing Laboratory Ltd.
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



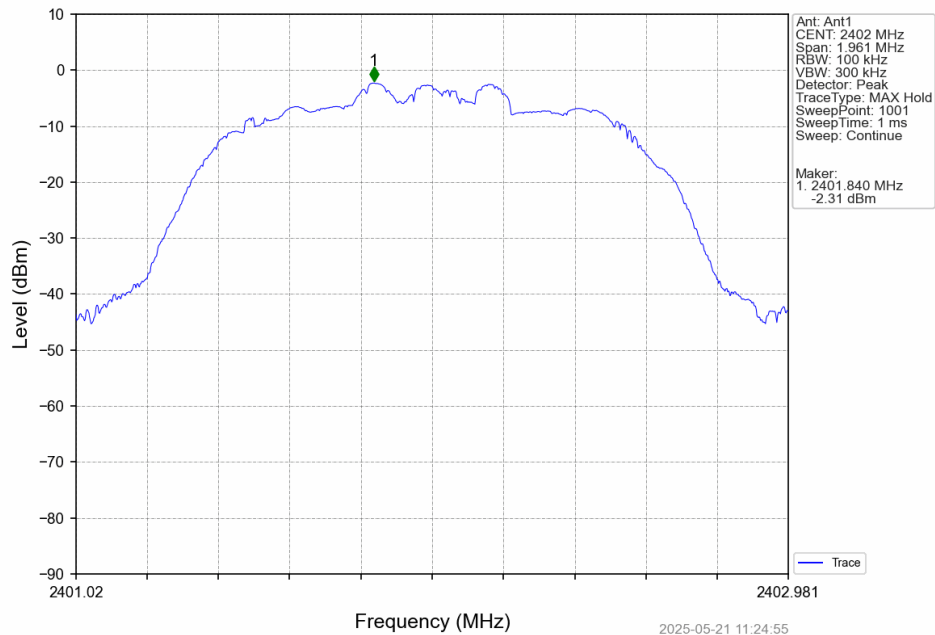
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



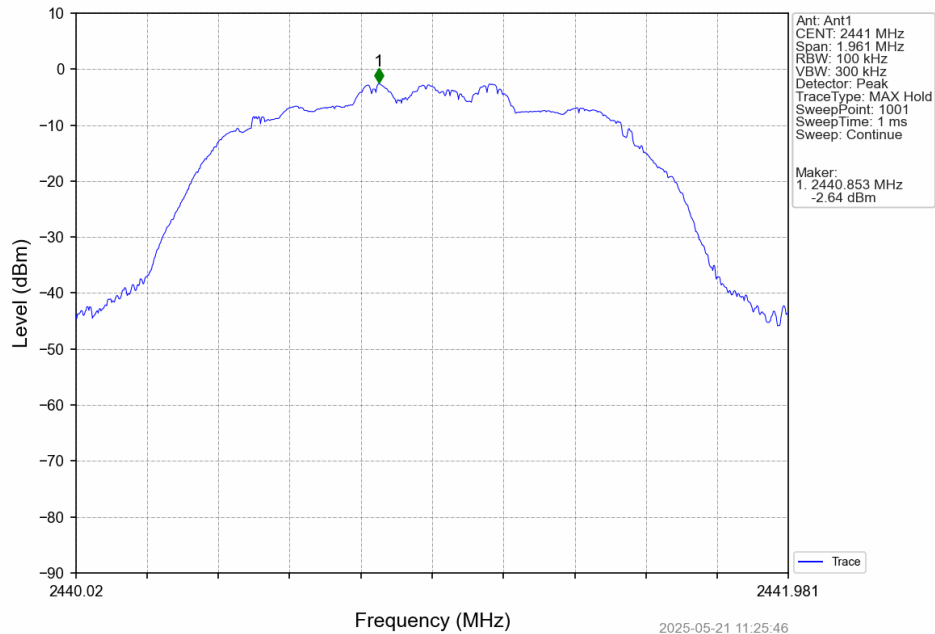
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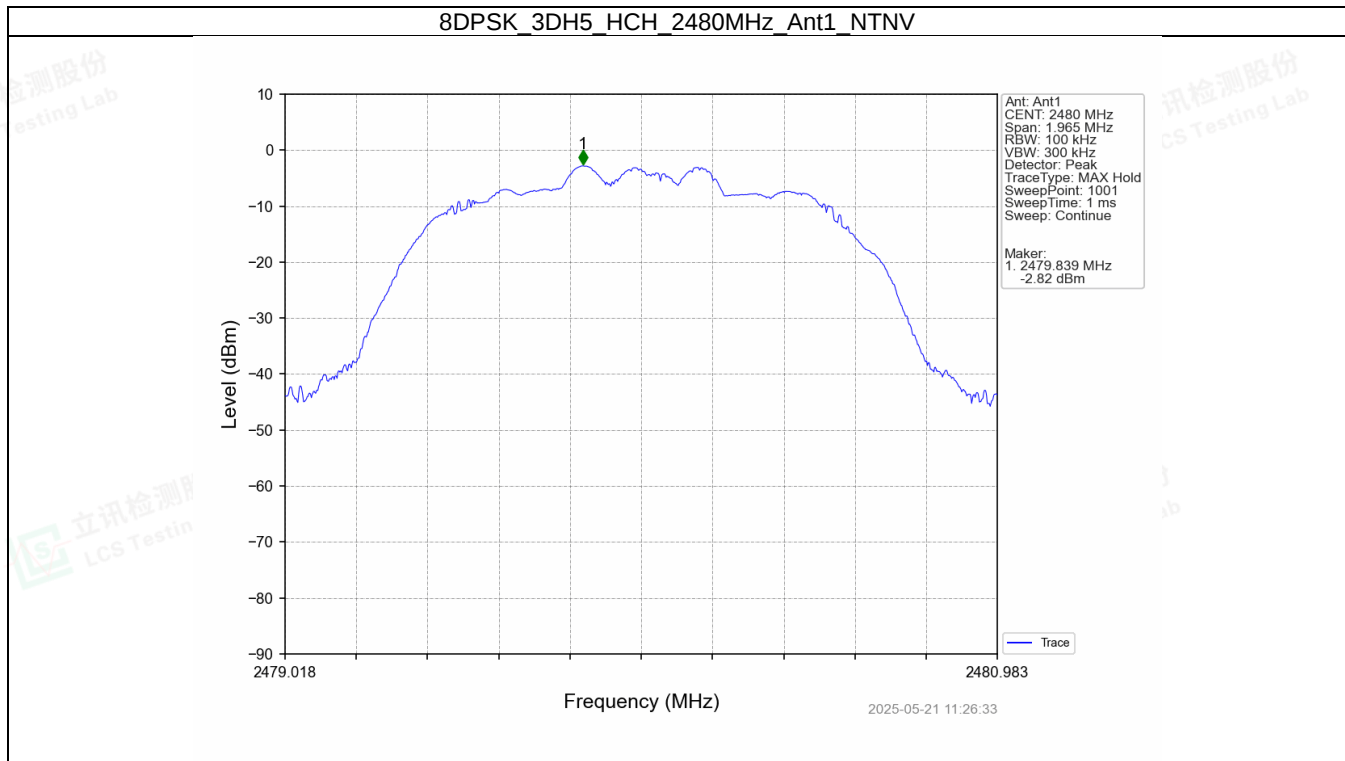
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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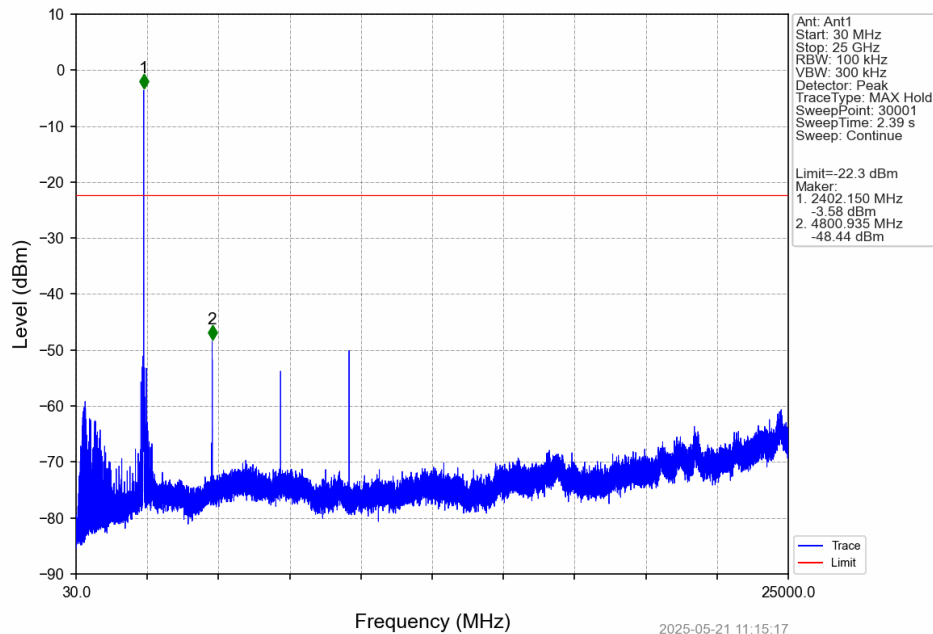


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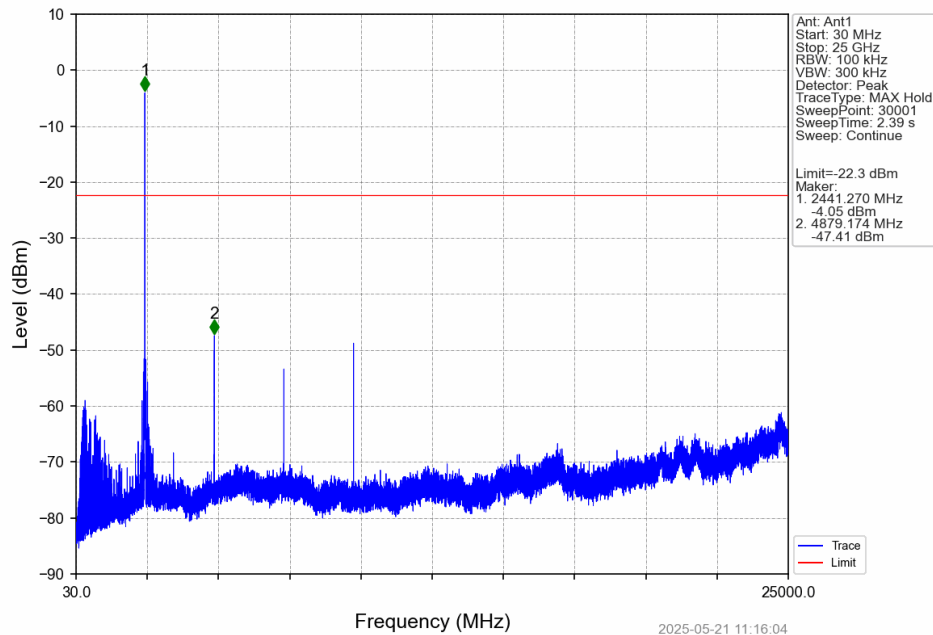


CSE

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



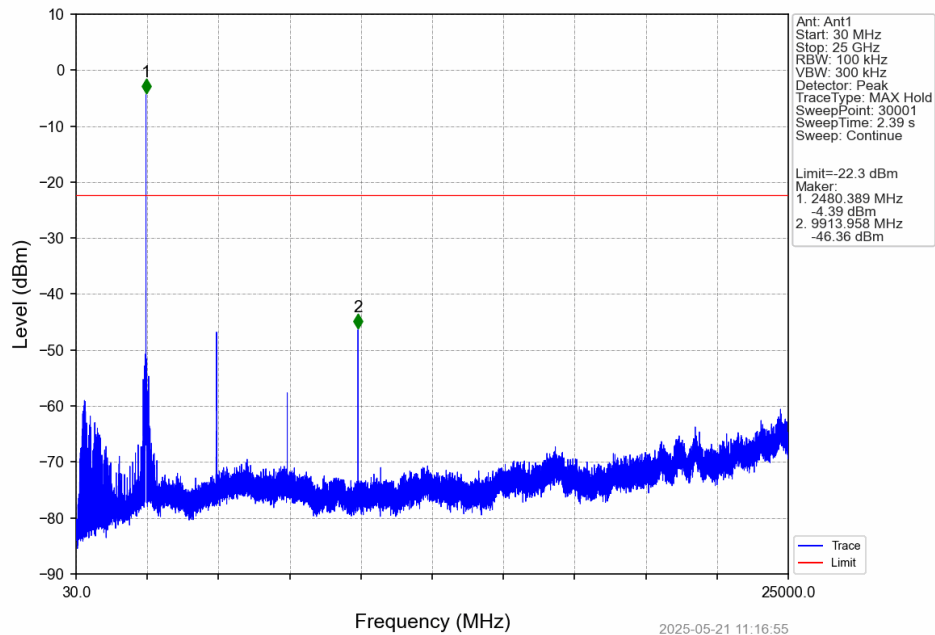
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



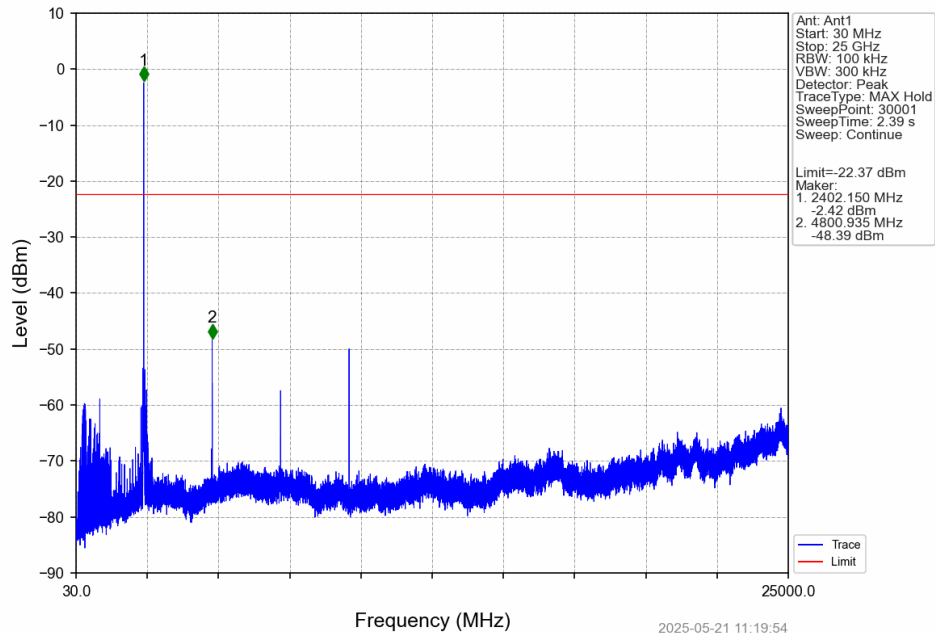
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



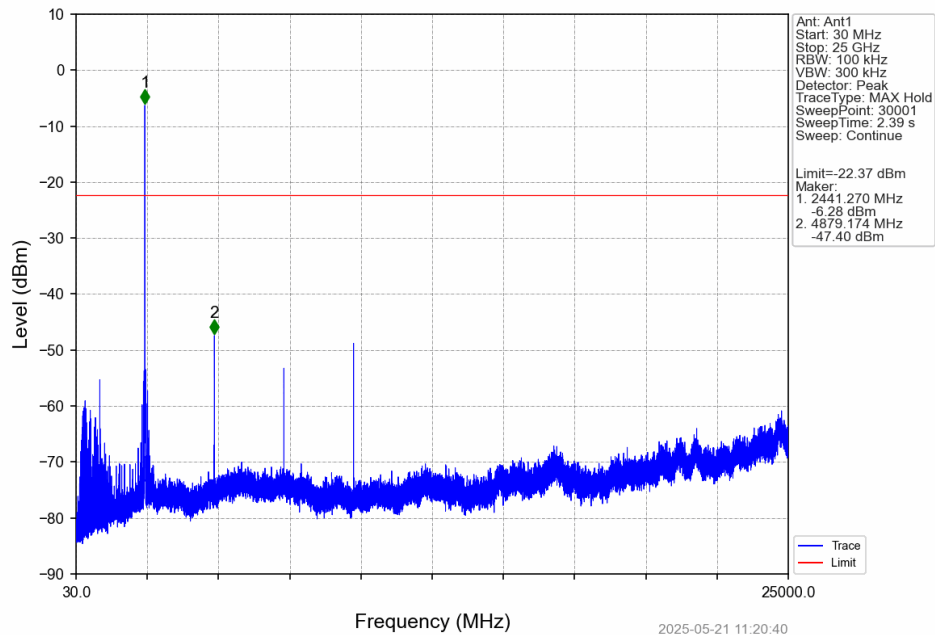
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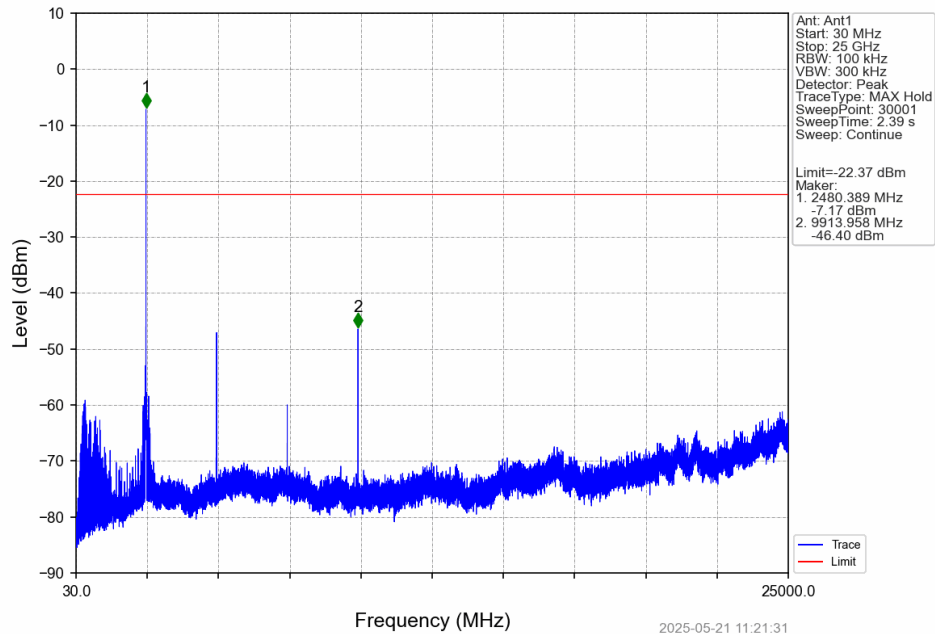
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



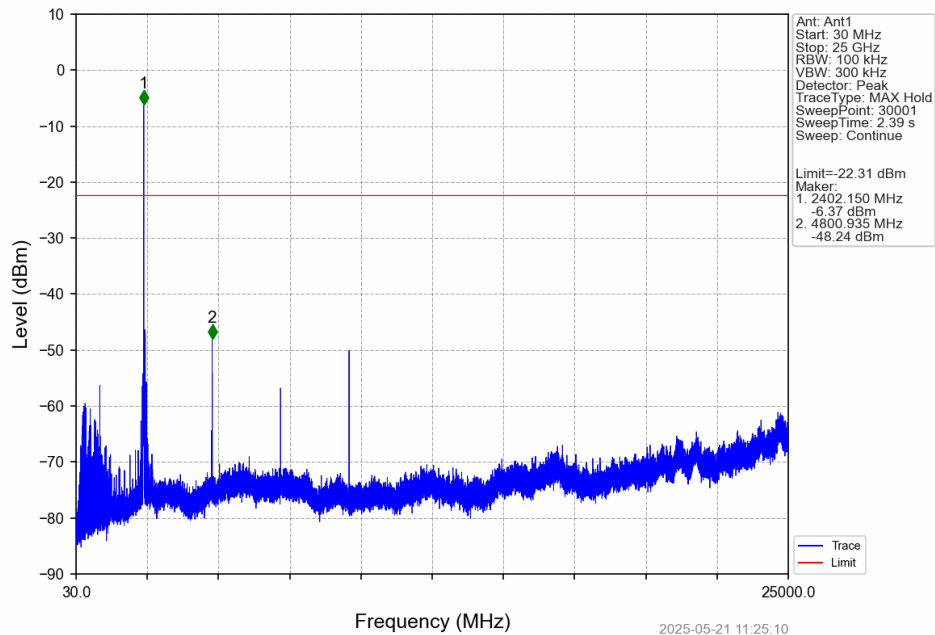
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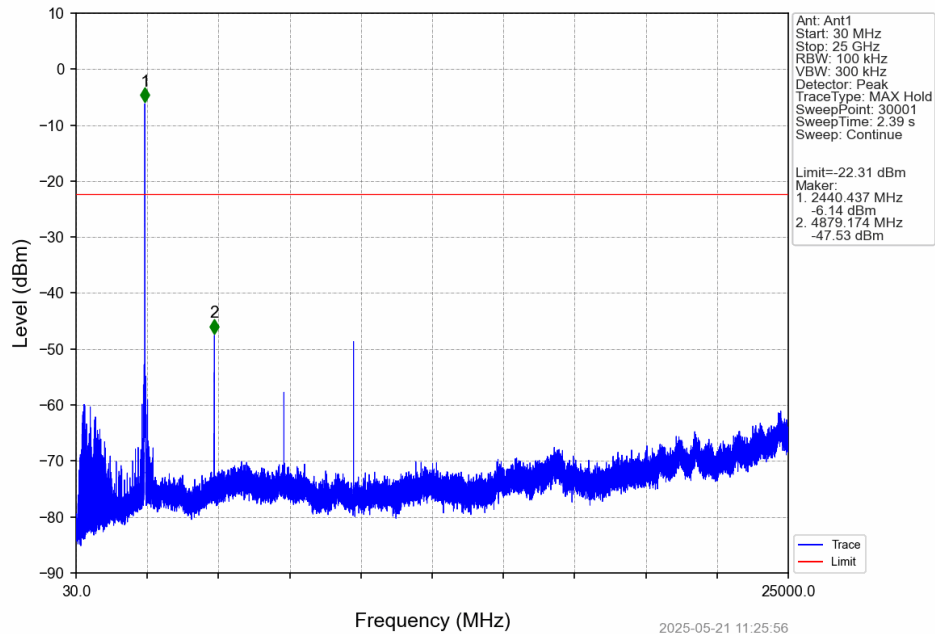
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



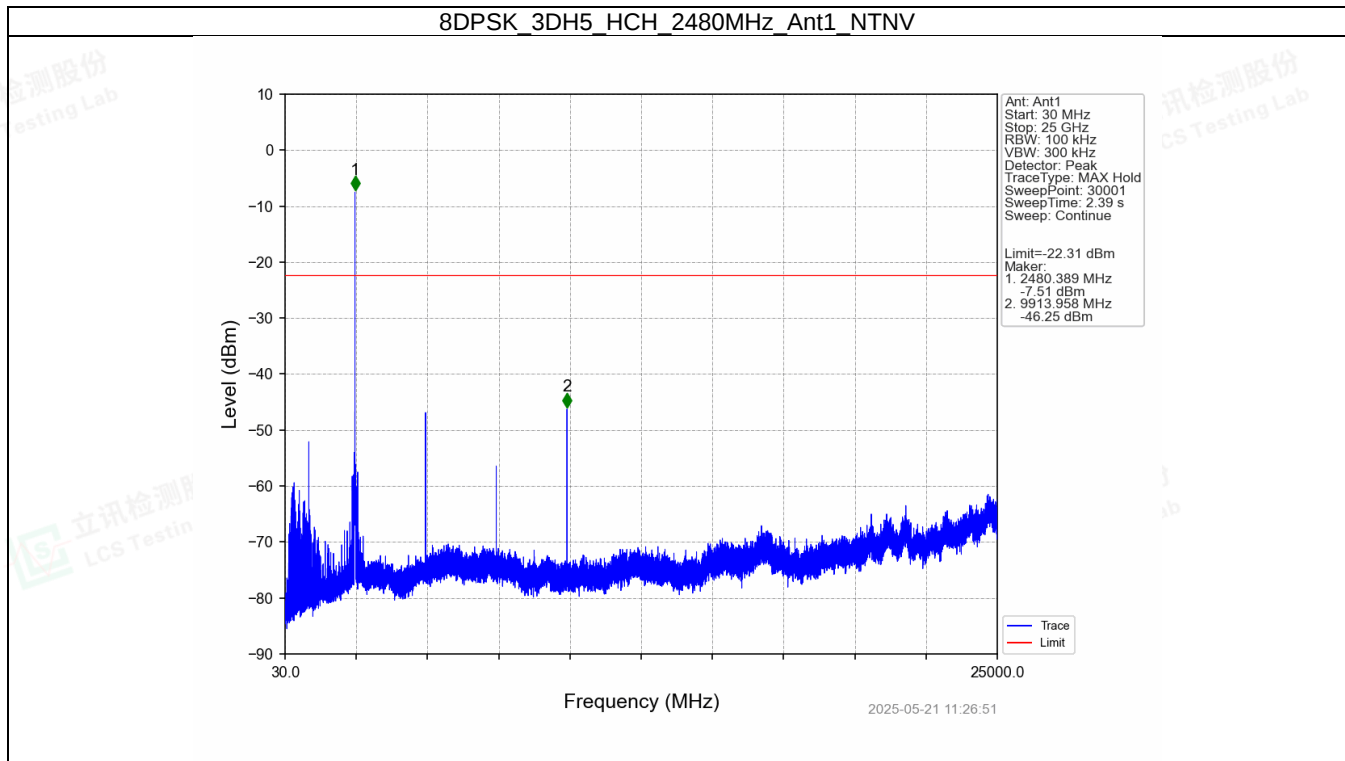
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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A.8 Duty Cycle

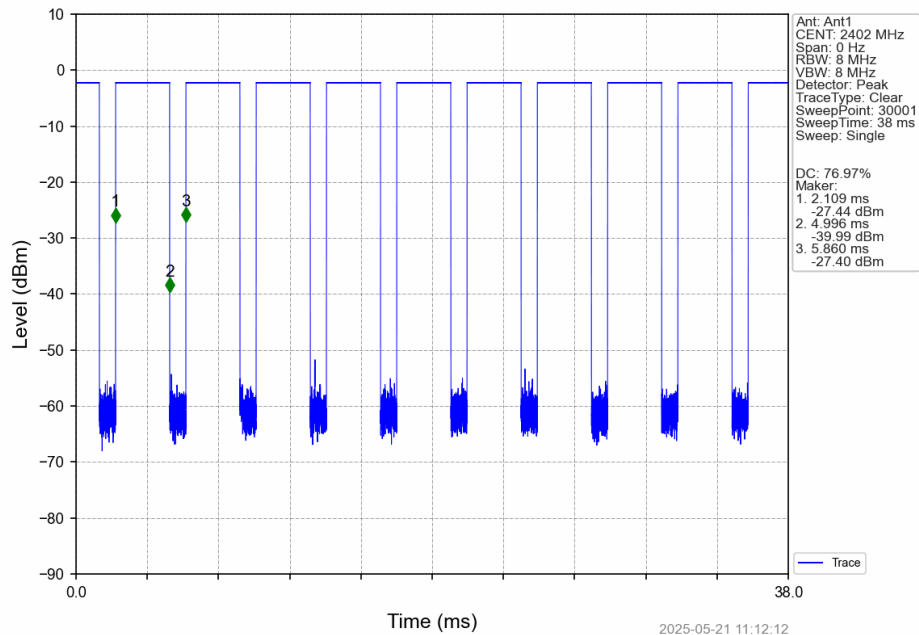
Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.887	3.751	76.97	1.14	0.03
		2441	DH5	2.887	3.750	76.99	1.14	0.03
		2480	DH5	2.886	3.750	76.96	1.14	0.03
Pi/4DQPSK	SISO	2402	2DH5	2.892	3.750	77.12	1.13	0.03
		2441	2DH5	2.893	3.751	77.13	1.13	0.03
		2480	2DH5	2.893	3.751	77.13	1.13	0.03
8DPSK	SISO	2402	3DH5	2.896	3.750	77.23	1.12	0.03
		2441	3DH5	2.896	3.751	77.21	1.12	0.03
		2480	3DH5	2.896	3.750	77.23	1.12	0.03



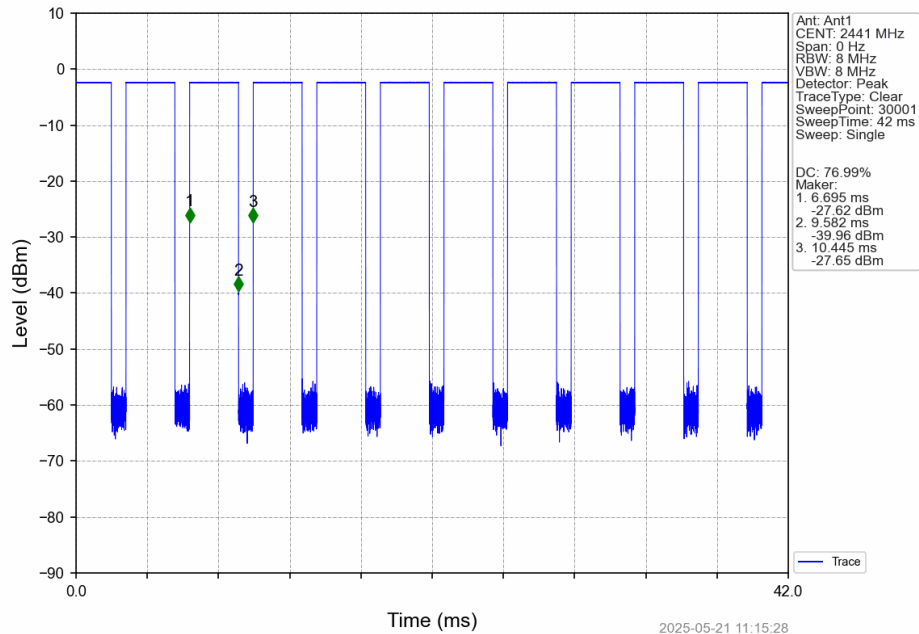
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GFSK_DH5_LCH_2402MHz_Ant1_NTNV



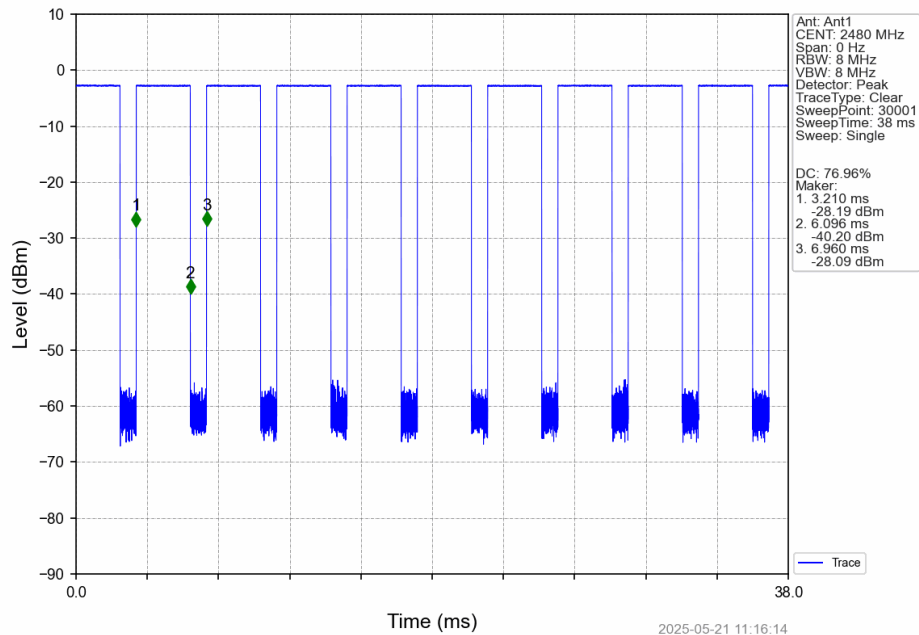
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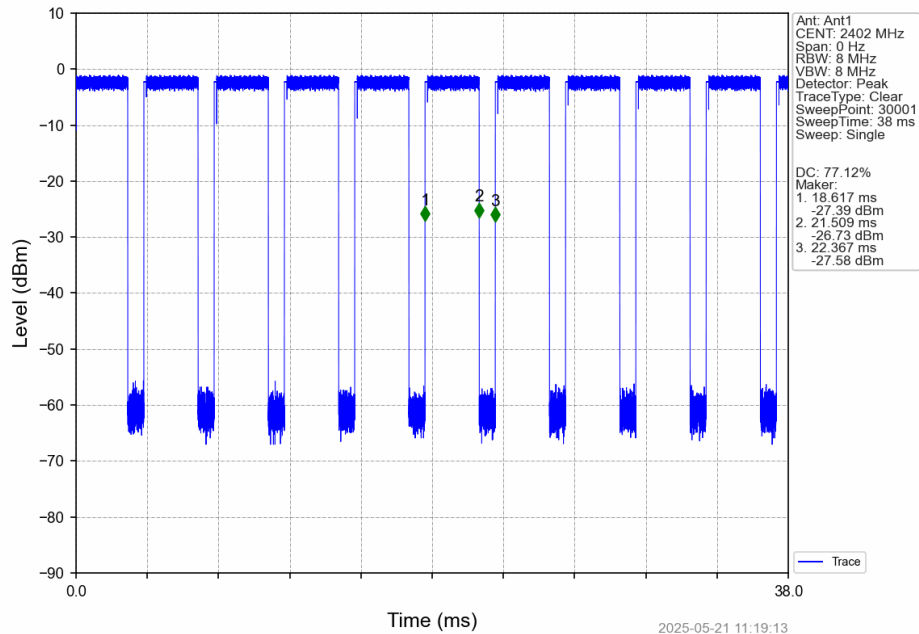
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



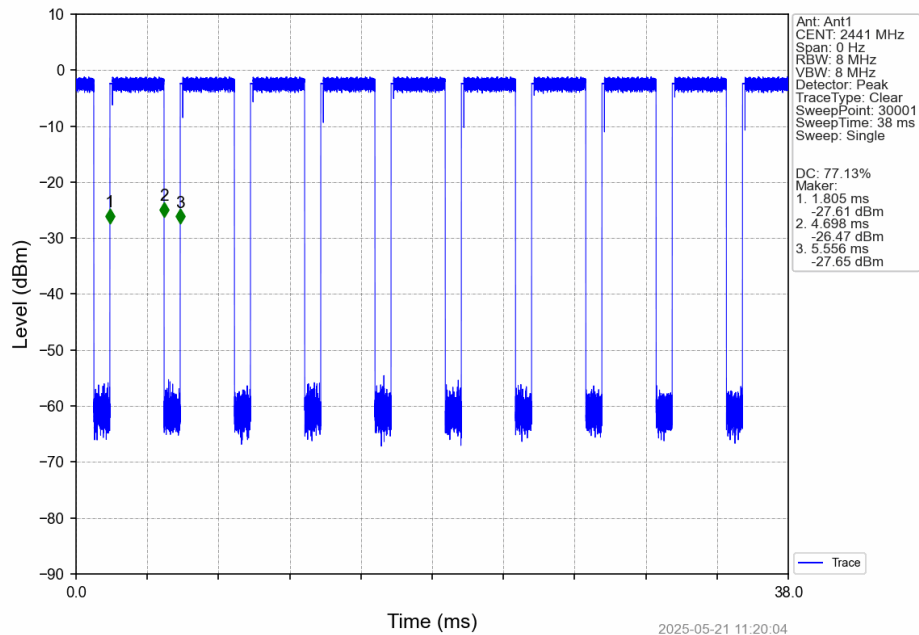
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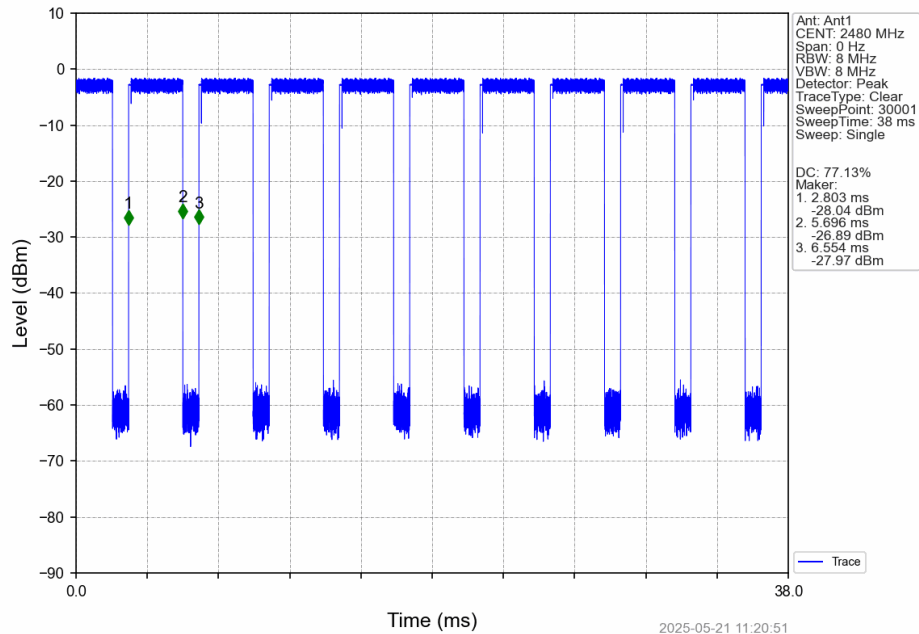
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



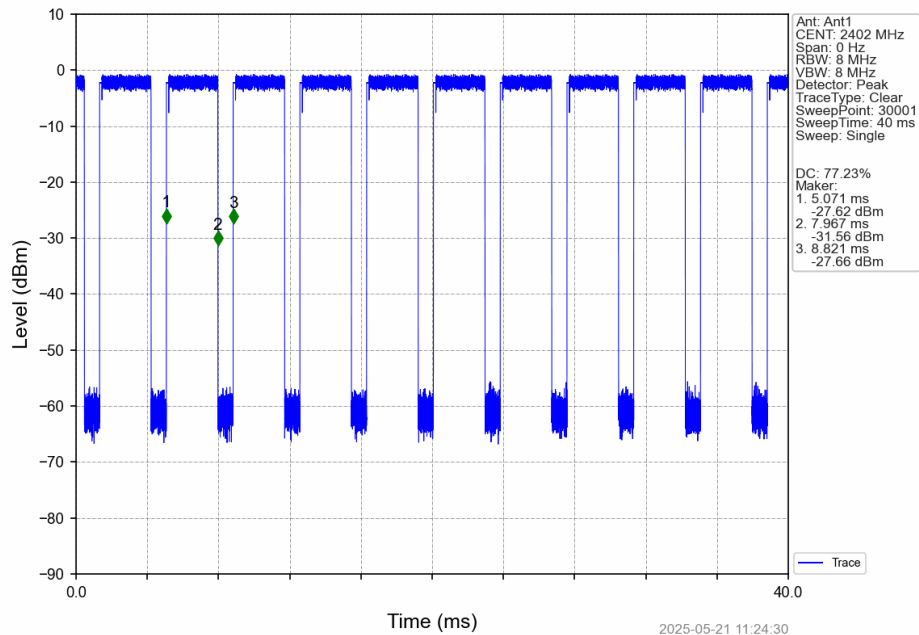
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



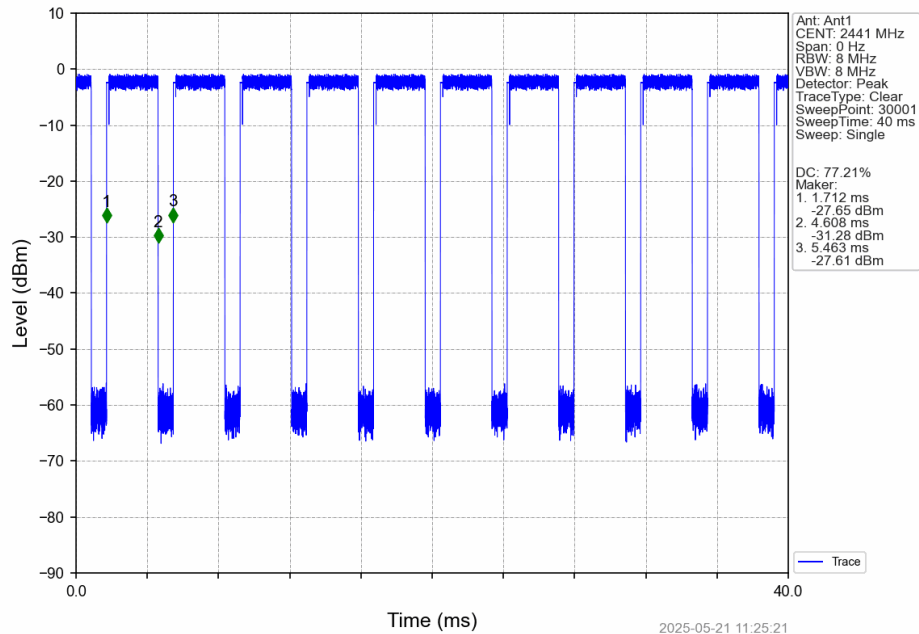
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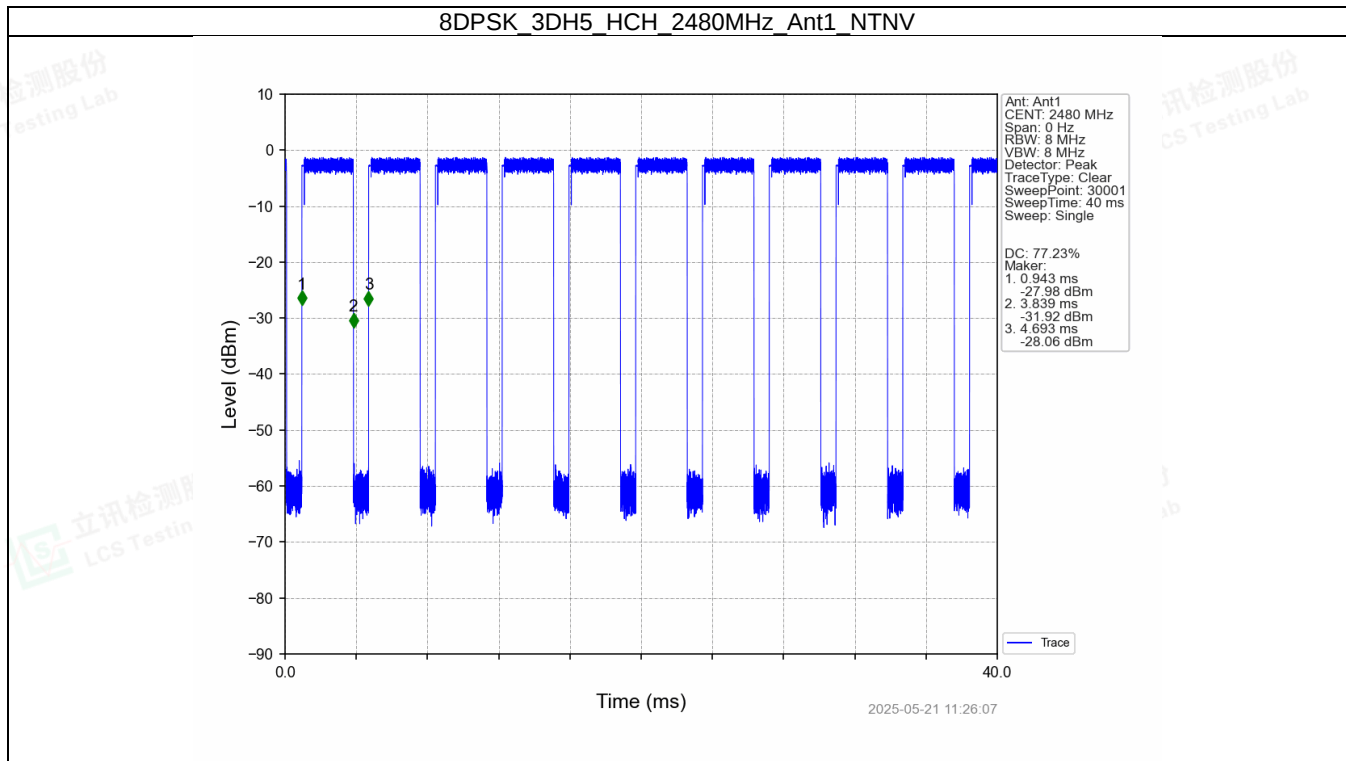
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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A.9 Restrict Band

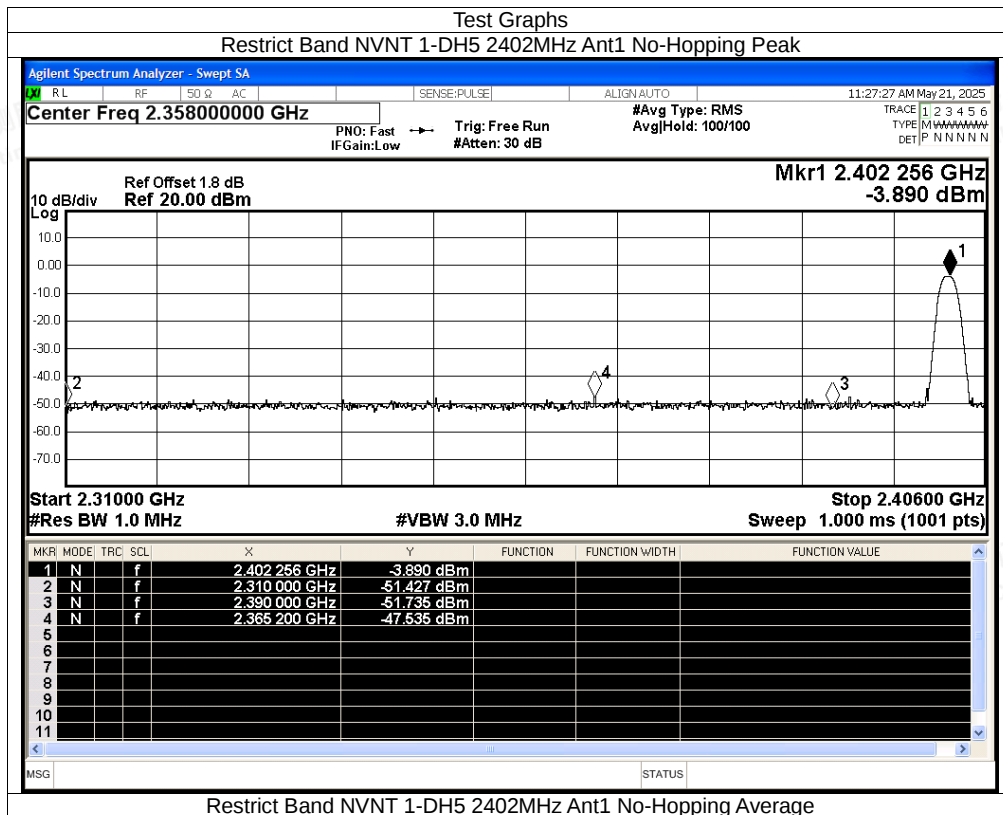
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.43	2.00	-	45.83	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.43	2.00	1.14	38.97	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2365.2	-47.54	2.00	-	49.72	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2358.288	-57.98	2.00	1.14	40.42	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.74	2.00	-	45.52	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.55	2.00	1.14	39.85	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.54	2.00	-	47.72	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.83	2.00	1.14	40.57	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.848	-46.85	2.00	-	50.41	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2495.824	-57.08	2.00	1.14	41.32	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.69	2.00	-	45.57	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.91	2.00	1.14	39.49	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.92	2.00	-	46.34	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.16	2.00	1.13	39.23	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2312.88	-47.18	2.00	-	50.08	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2383.248	-57.8	2.00	1.13	40.59	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.76	2.00	-	45.50	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.83	2.00	1.13	39.56	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.46	2.00	-	46.80	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.68	2.00	1.13	40.71	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.976	-45.69	2.00	-	51.57	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2499.088	-57.22	2.00	1.13	41.17	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.92	2.00	-	48.34	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.2	2.00	1.13	40.19	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.55	2.00	-	46.71	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.83	2.00	1.13	39.56	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2360.304	-47.29	2.00	-	49.97	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2344.656	-57.97	2.00	1.13	40.42	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.57	2.00	-	45.69	Peak	74	Pass



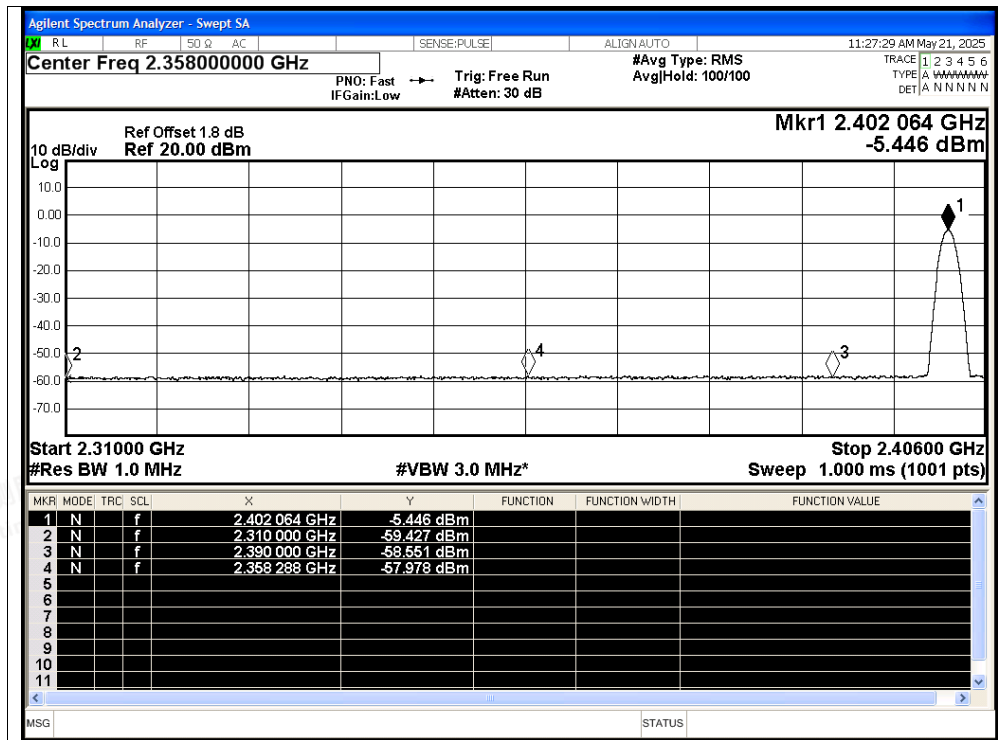
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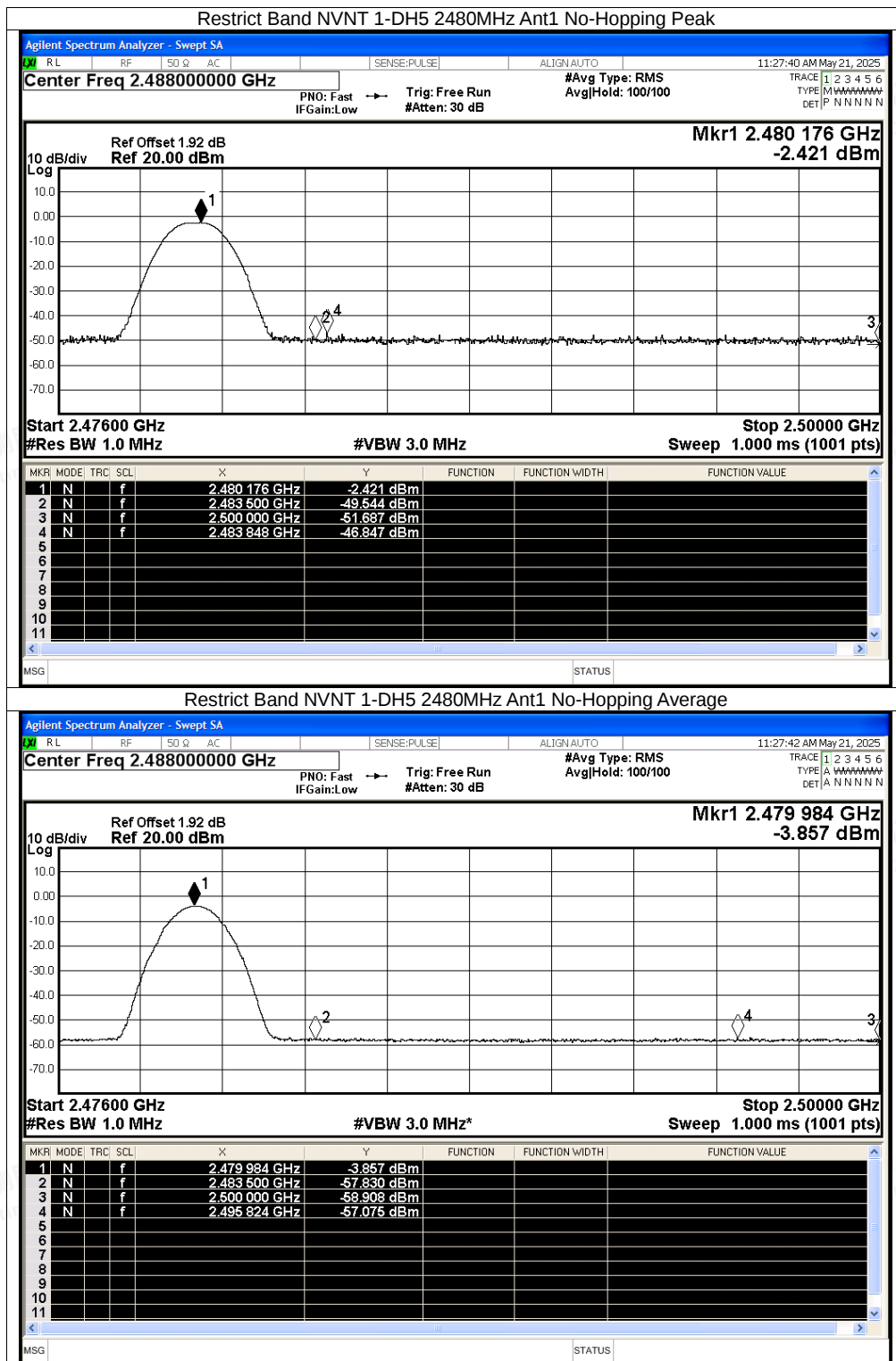
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NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.24	2.00	-	48.02	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.13	2.00	1.12	40.25	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.688	-46.32	2.00	-	50.94	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.536	-57.12	2.00	1.12	41.26	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.12	2.00	-	47.14	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.65	2.00	1.12	39.73	Average	54	Pass



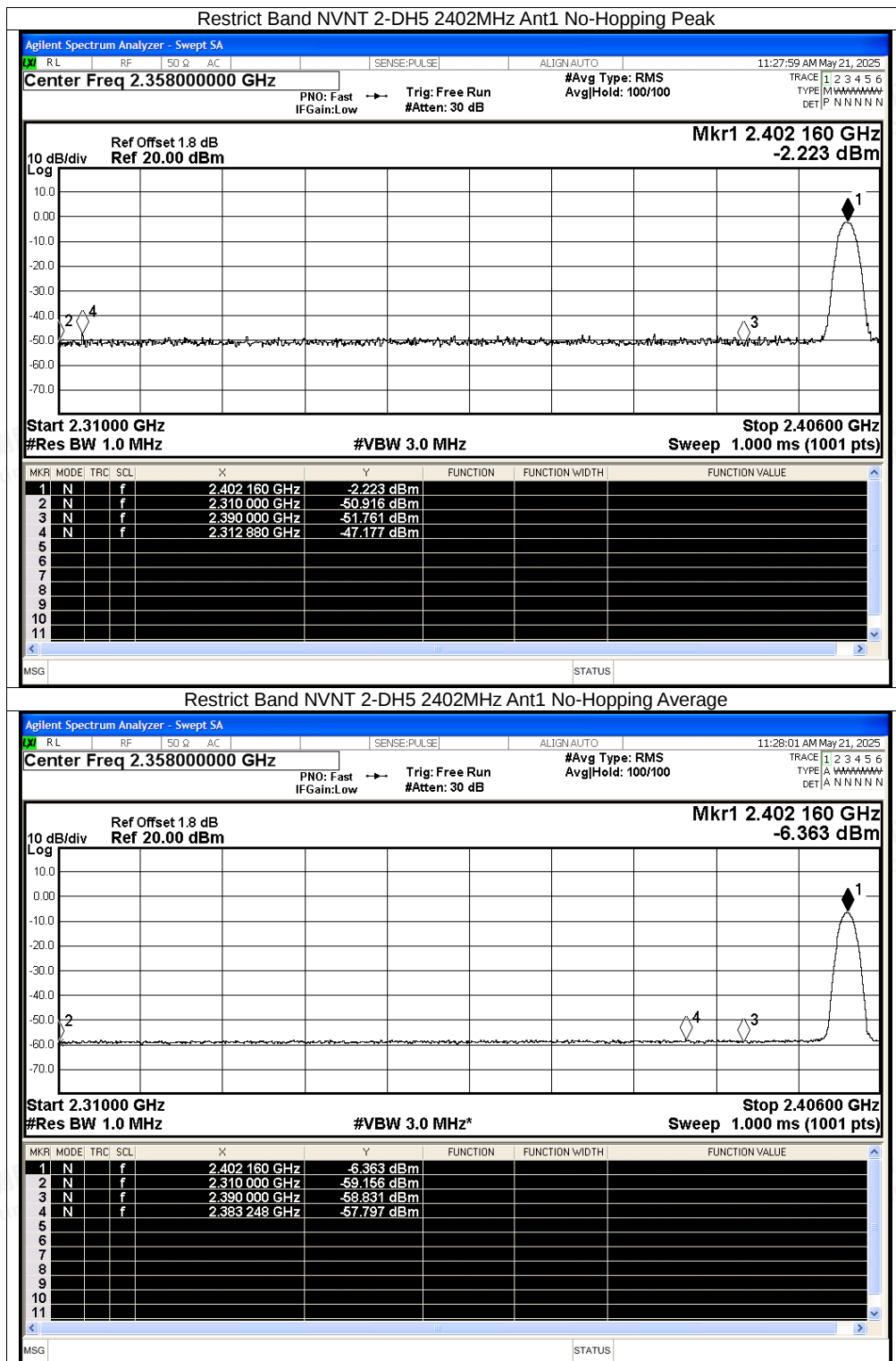
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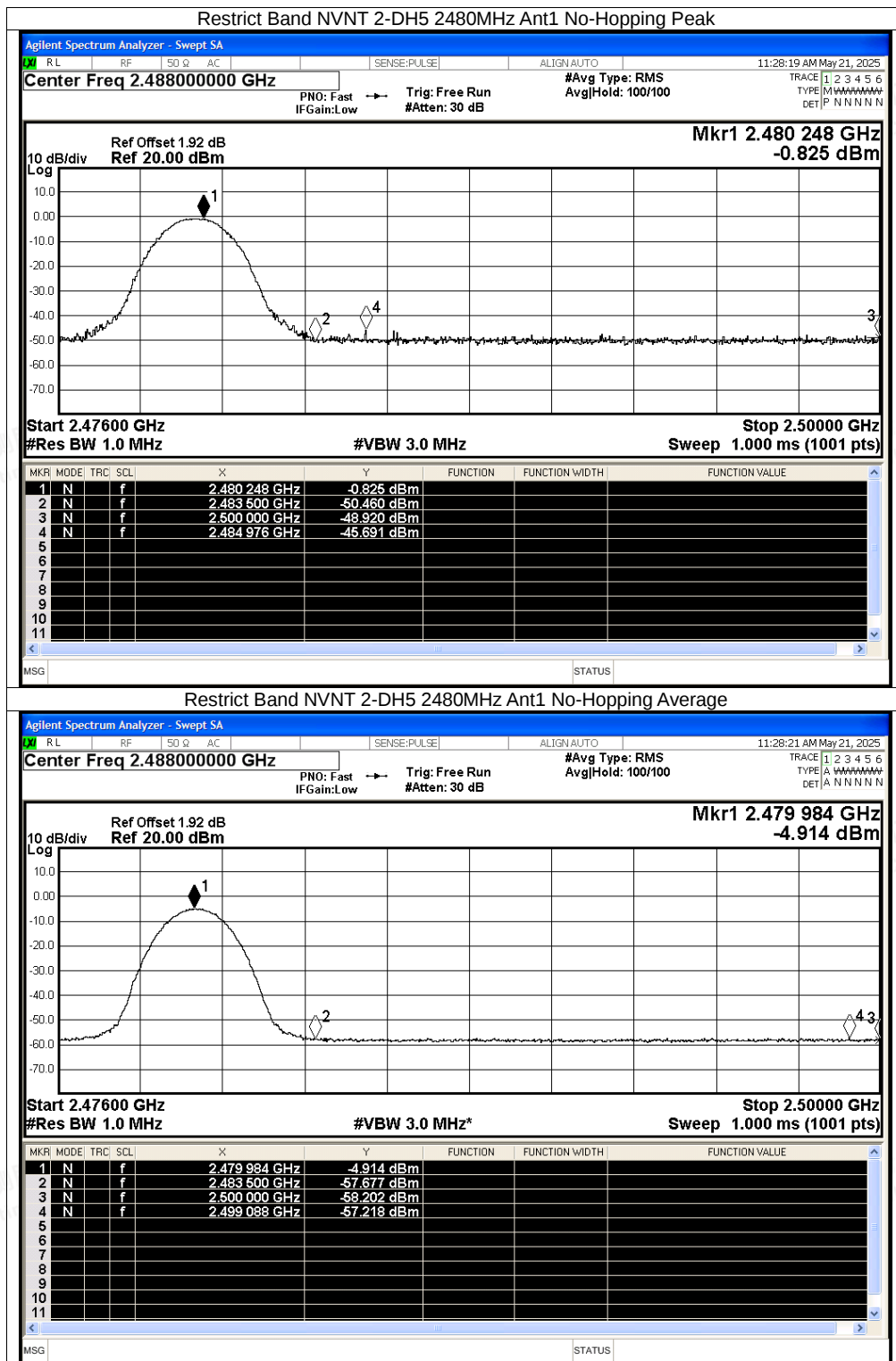
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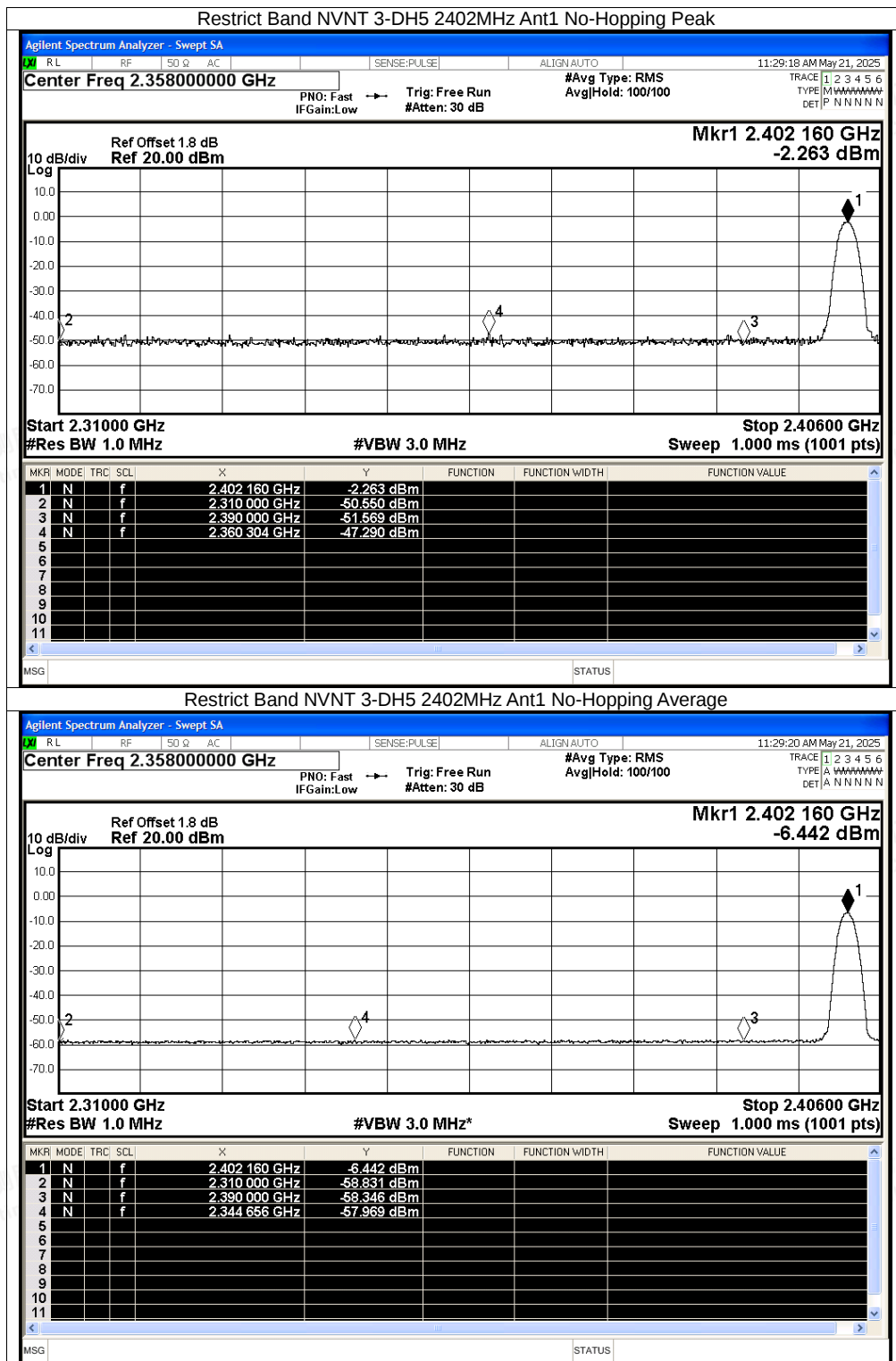
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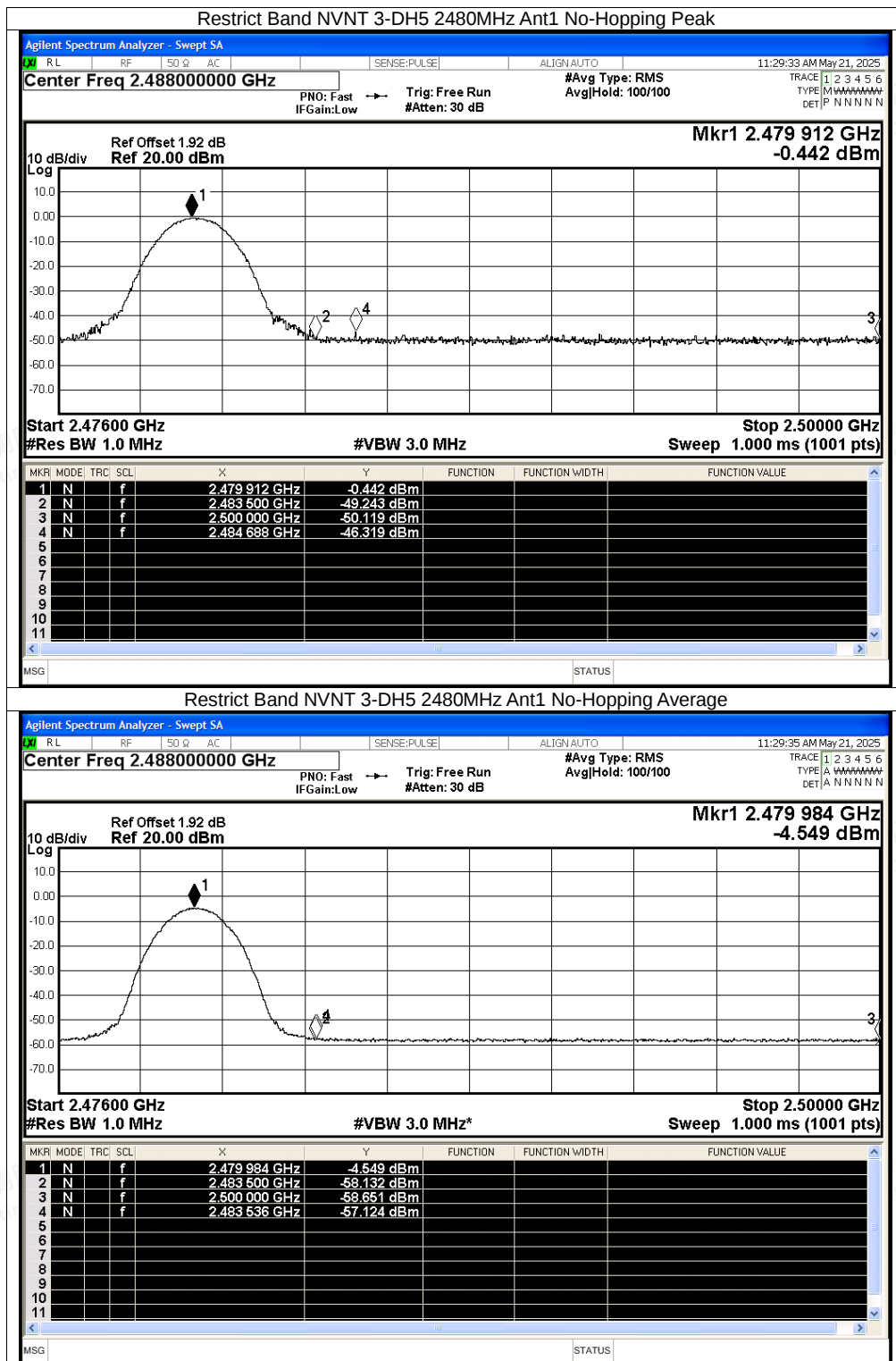
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