



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: WIFI PHOTO FRAME

Test Model: XCLT-1010

Environmental Conditions	
Temperature:	24.3°C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

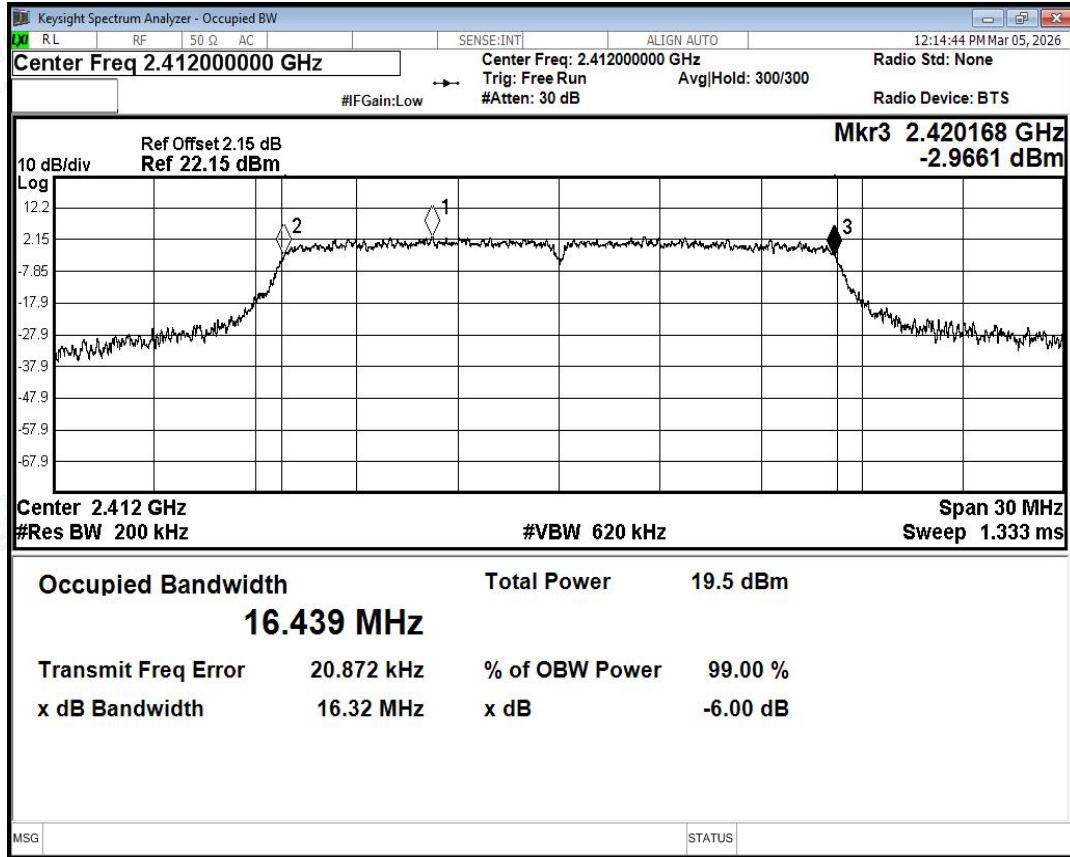




A.1 -6dB Bandwidth

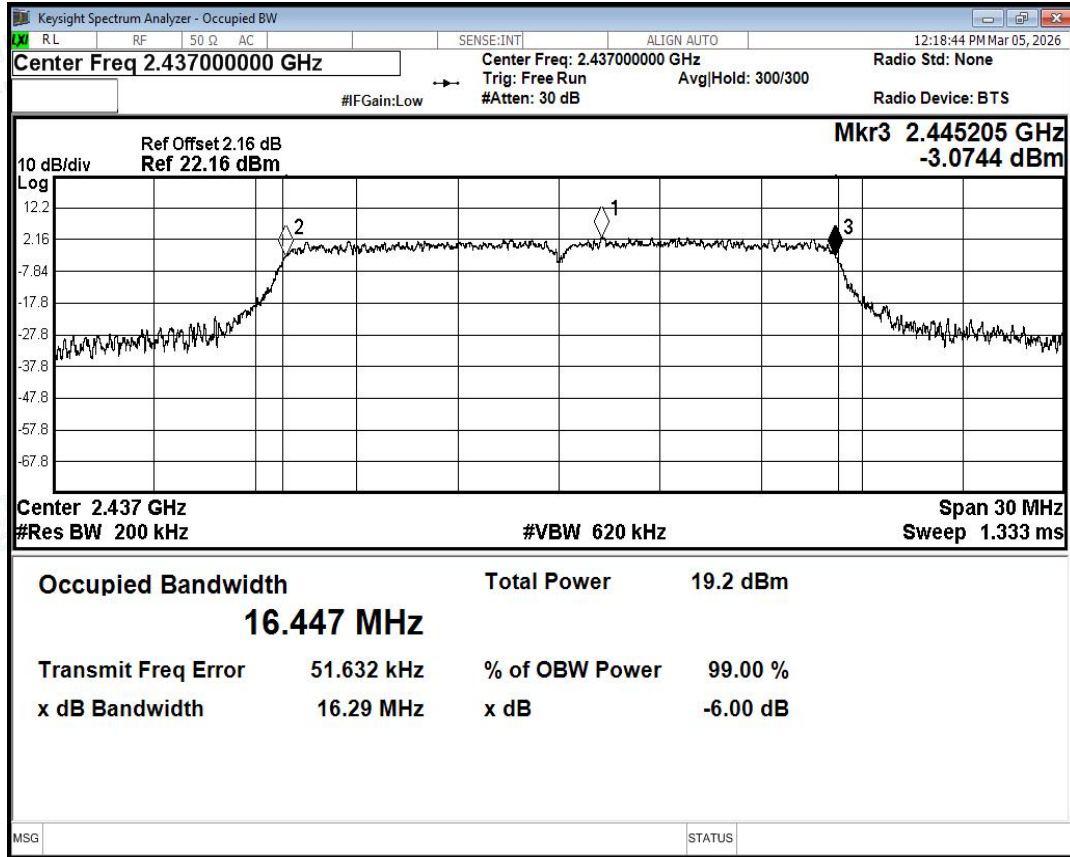
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	g	2412	Ant1	16.32	0.5	Pass
NVNT	g	2437	Ant1	16.29	0.5	Pass
NVNT	g	2462	Ant1	16.33	0.5	Pass





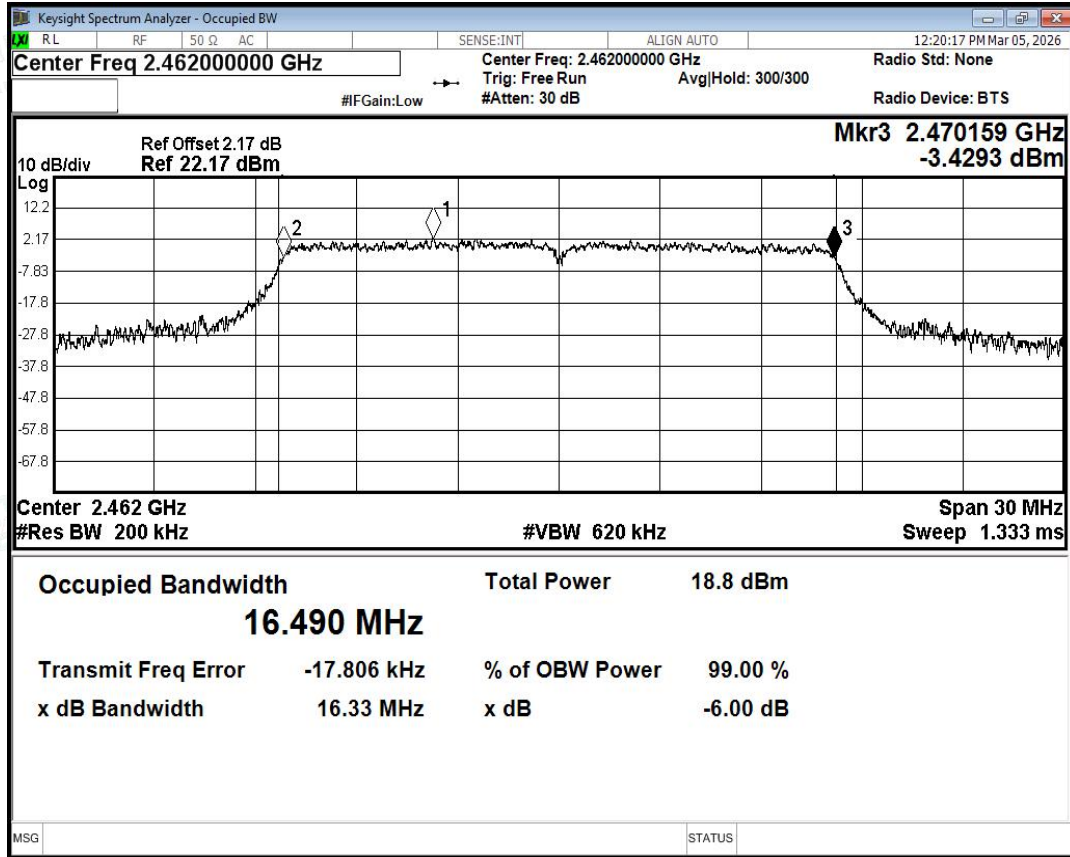
-6dB Bandwidth NVNT g 2412MHz Ant1





-6dB Bandwidth NVNT g 2437MHz Ant1





-6dB Bandwidth NVNT g 2462MHz Ant1





A.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	g	2412	Ant1	13.22	0.1	13.32	30	Pass
NVNT	g	2437	Ant1	12.97	0.1	13.07	30	Pass
NVNT	g	2462	Ant1	12.54	0.1	12.64	30	Pass

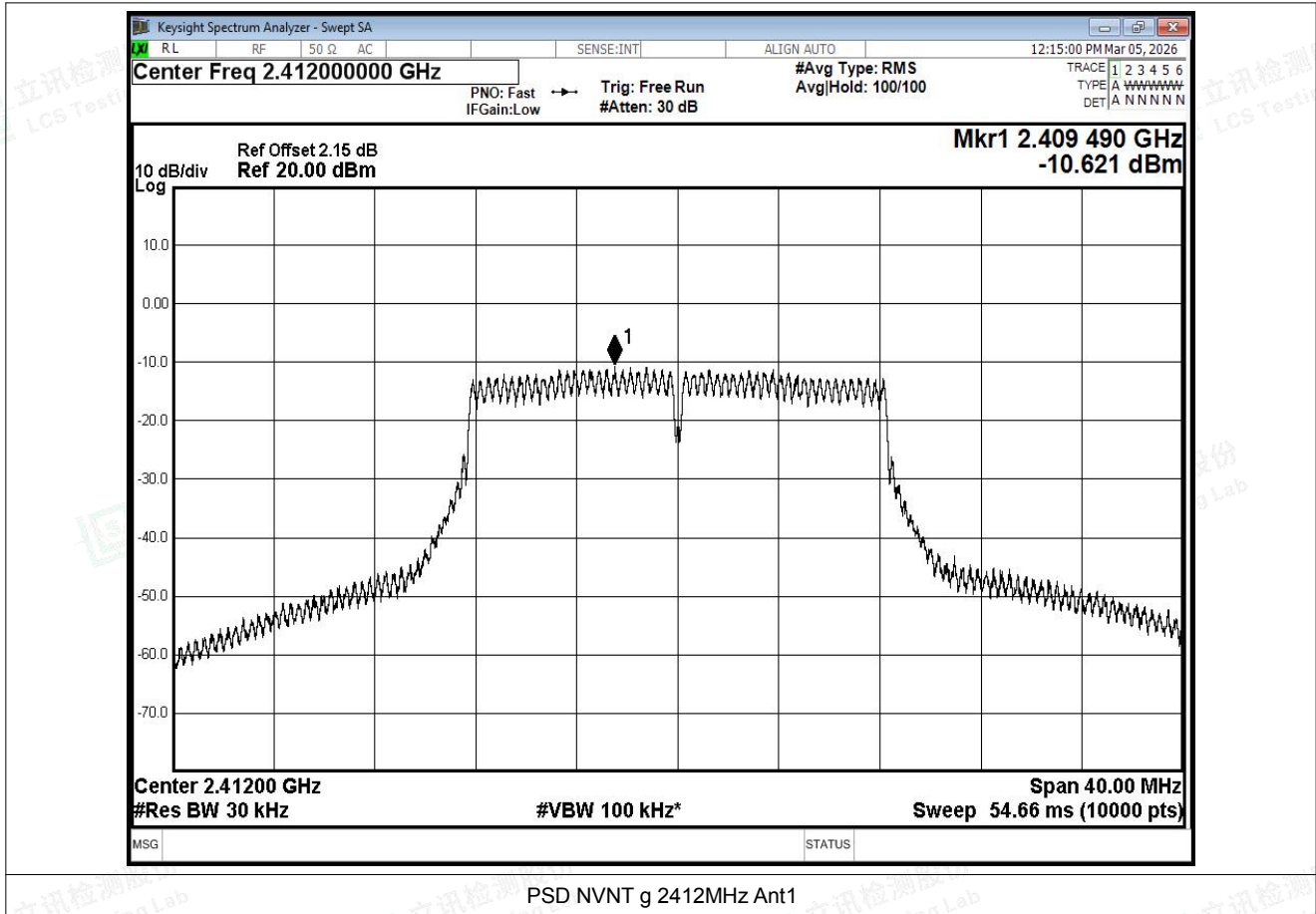


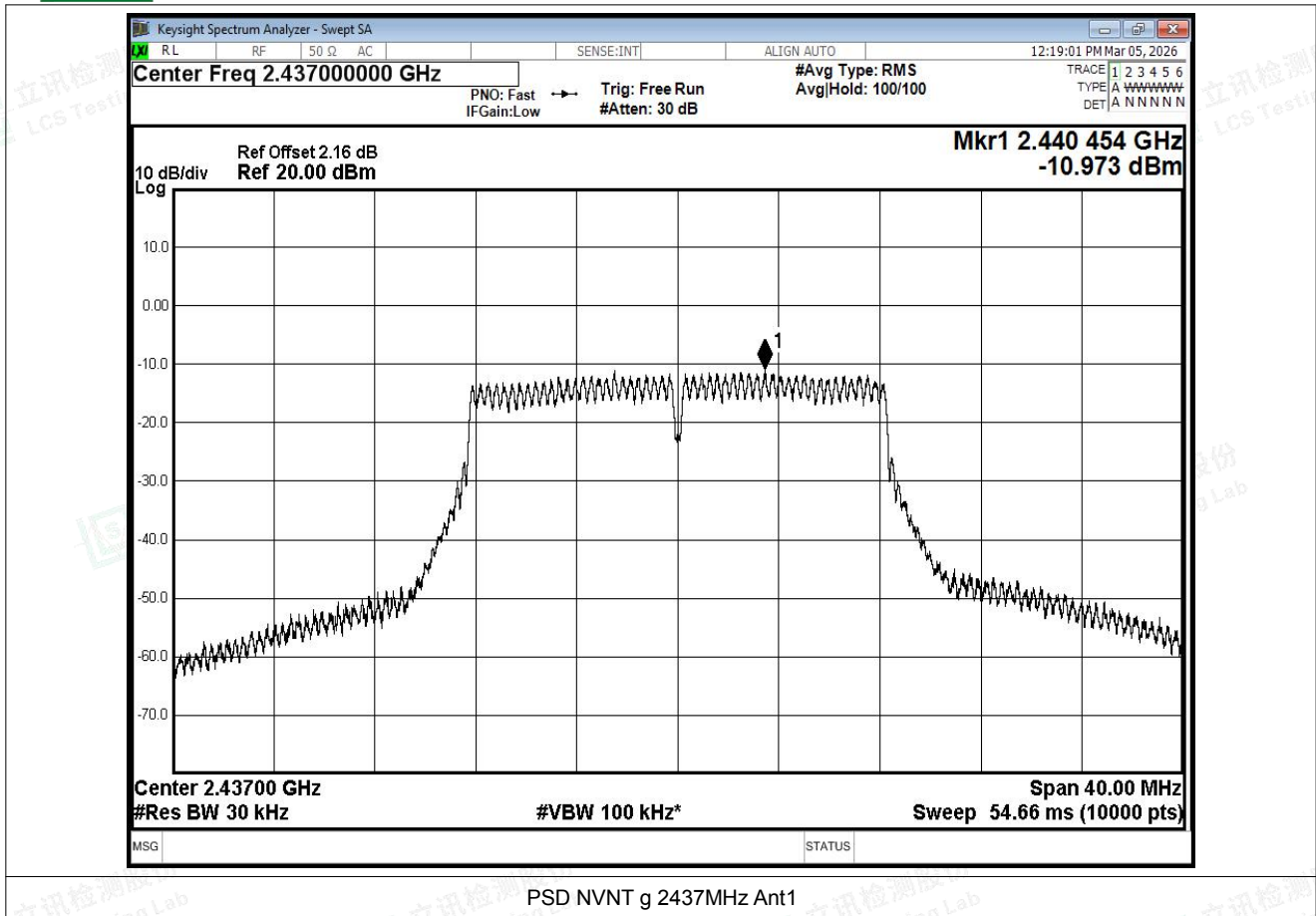


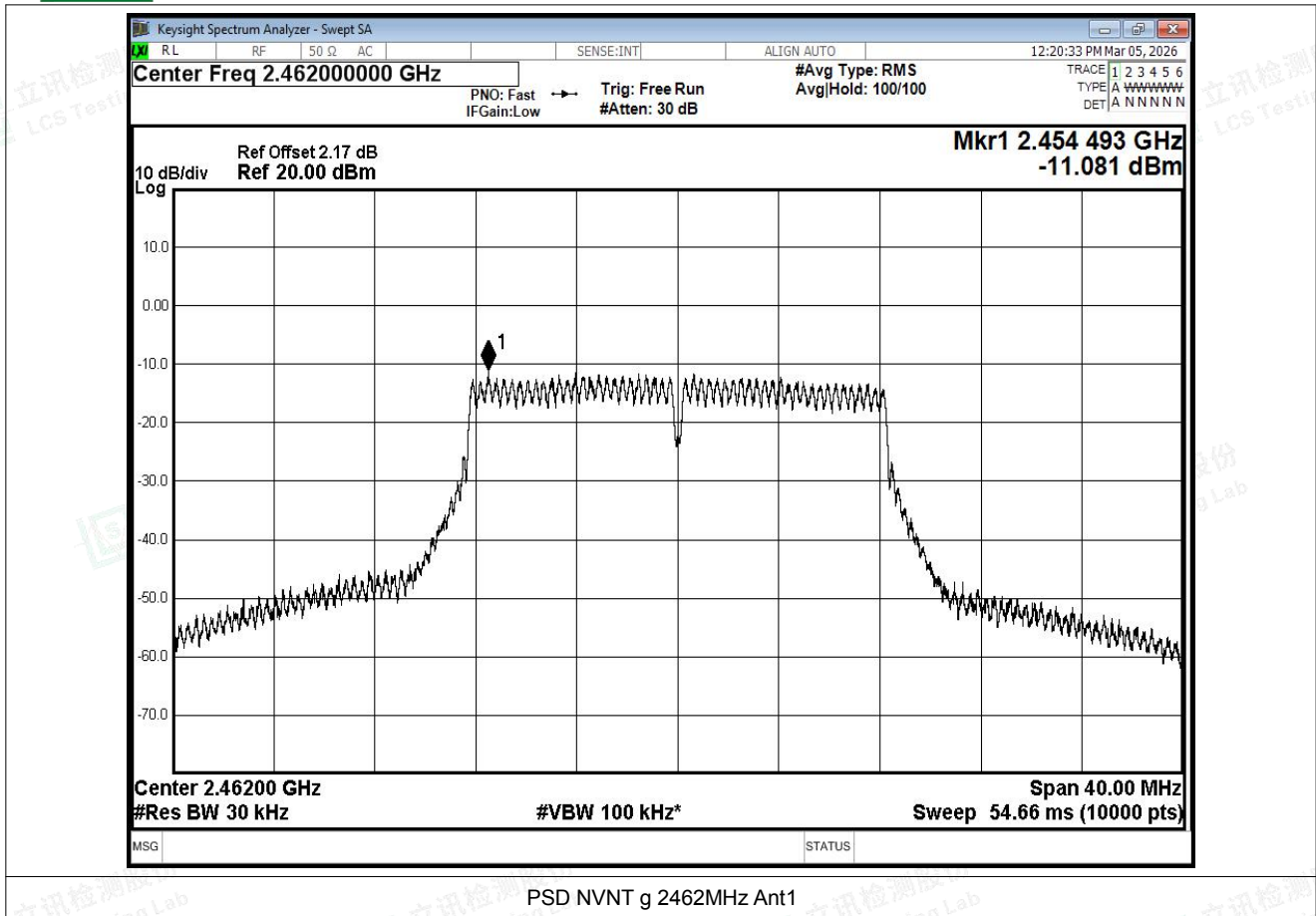
A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/30kHz)	Duty Factor (dB)	Total PSD (dBm/30kHz)	Limit (dBm/3kHz)	Verdict
NVNT	g	2412	Ant1	-10.62	0.1	-10.52	8	Pass
NVNT	g	2437	Ant1	-10.97	0.1	-10.87	8	Pass
NVNT	g	2462	Ant1	-11.08	0.1	-10.98	8	Pass







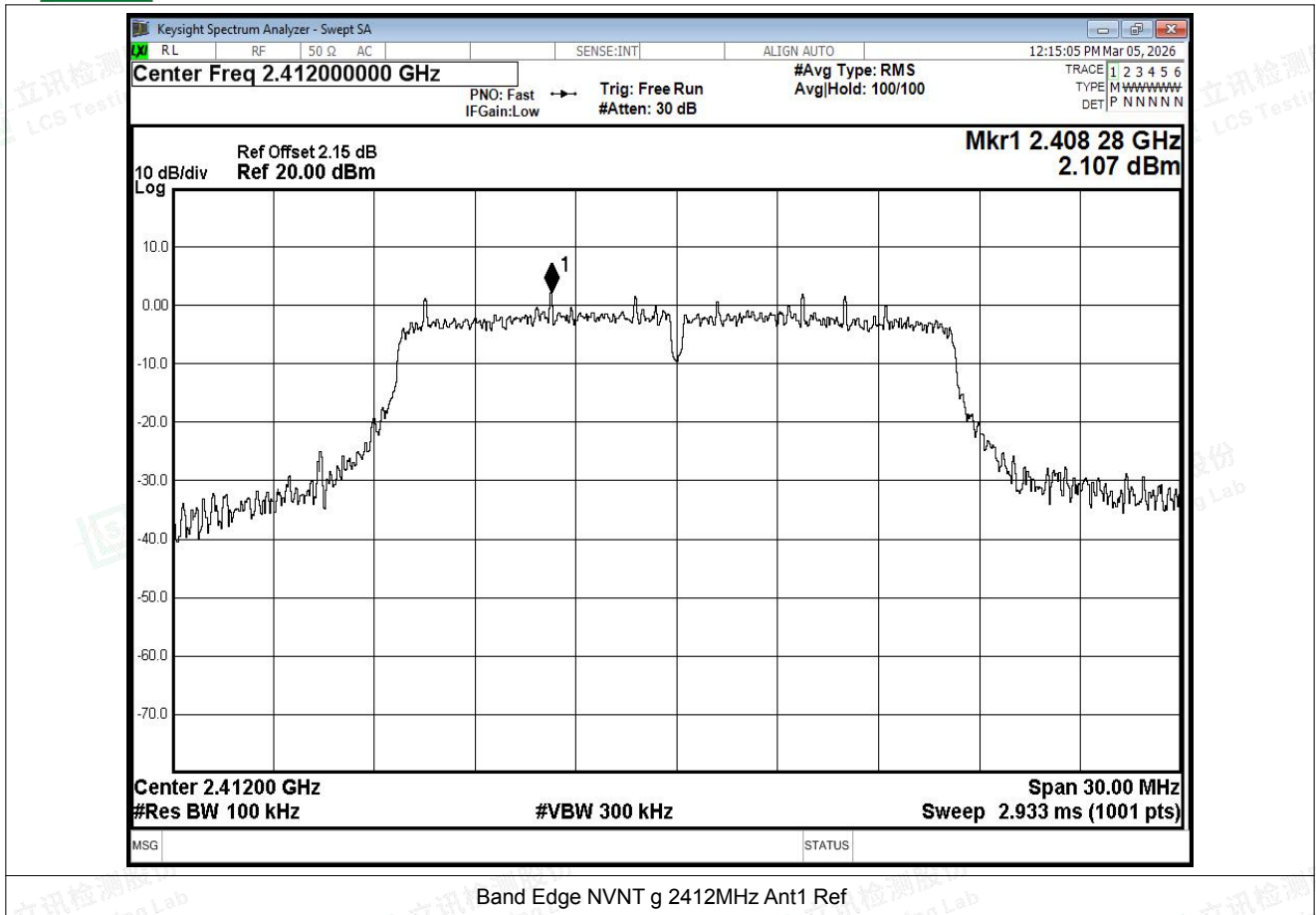


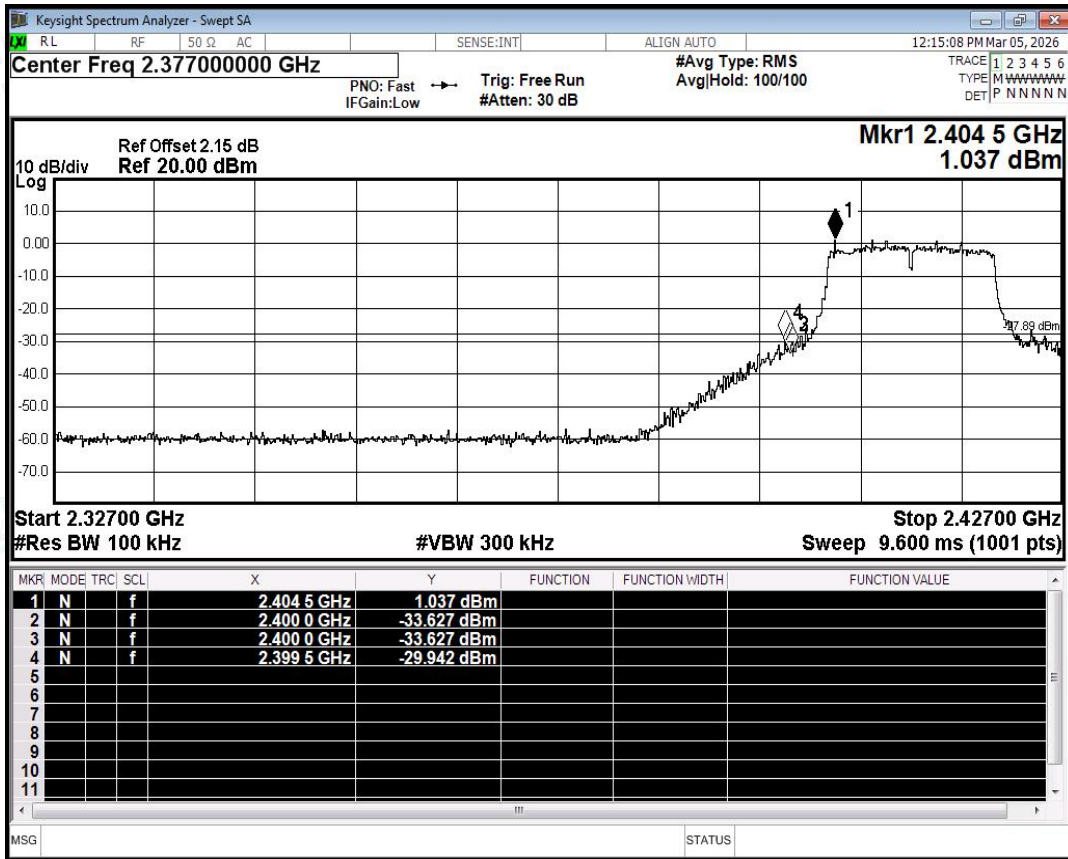


A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	g	2412	Ant1	-32.05	-30	Pass
NVNT	g	2462	Ant1	-44.42	-30	Pass

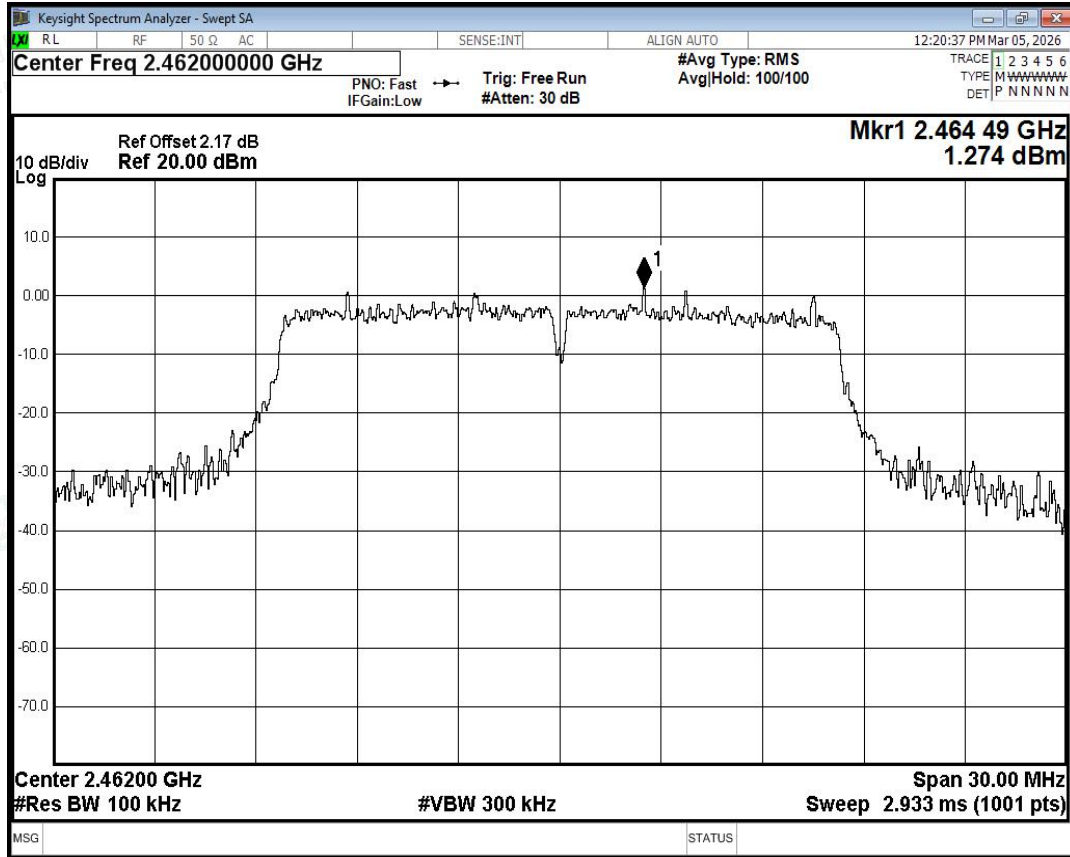






Band Edge NVNT g 2412MHz Ant1 Emission

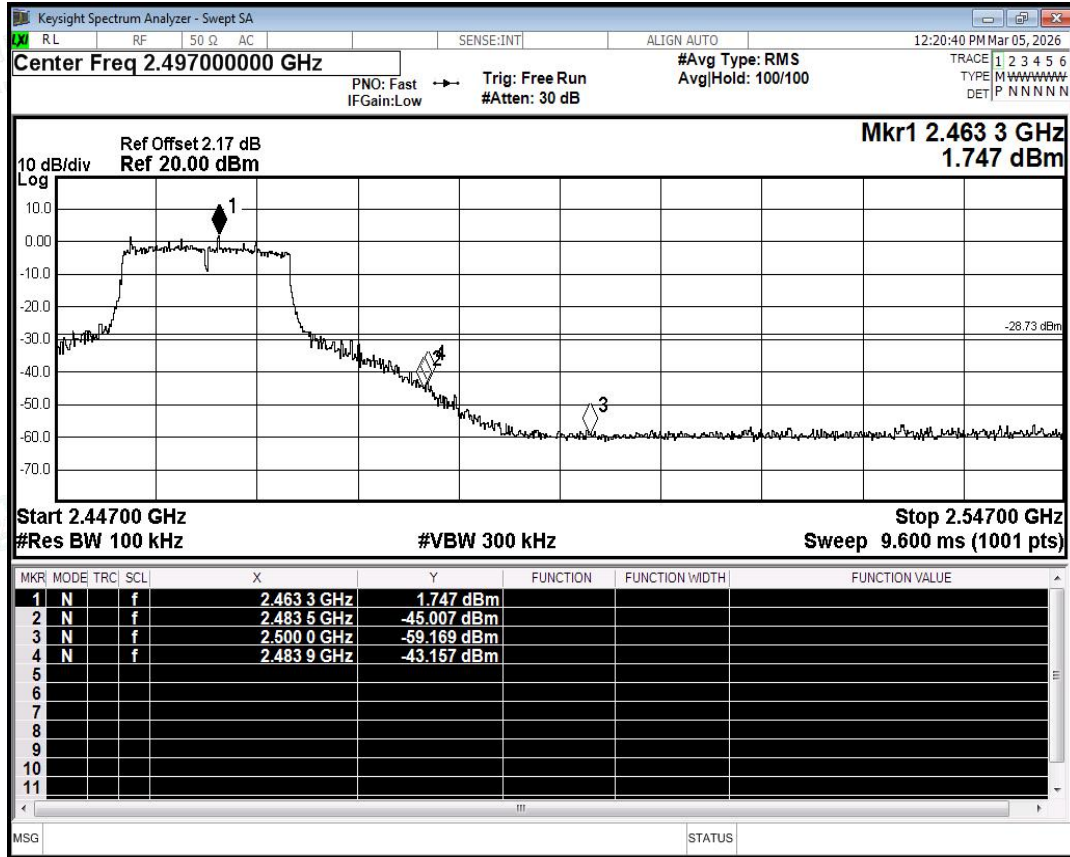




Band Edge NVNT g 2462MHz Ant1 Ref



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Band Edge NVNT g 2462MHz Ant1 Emission



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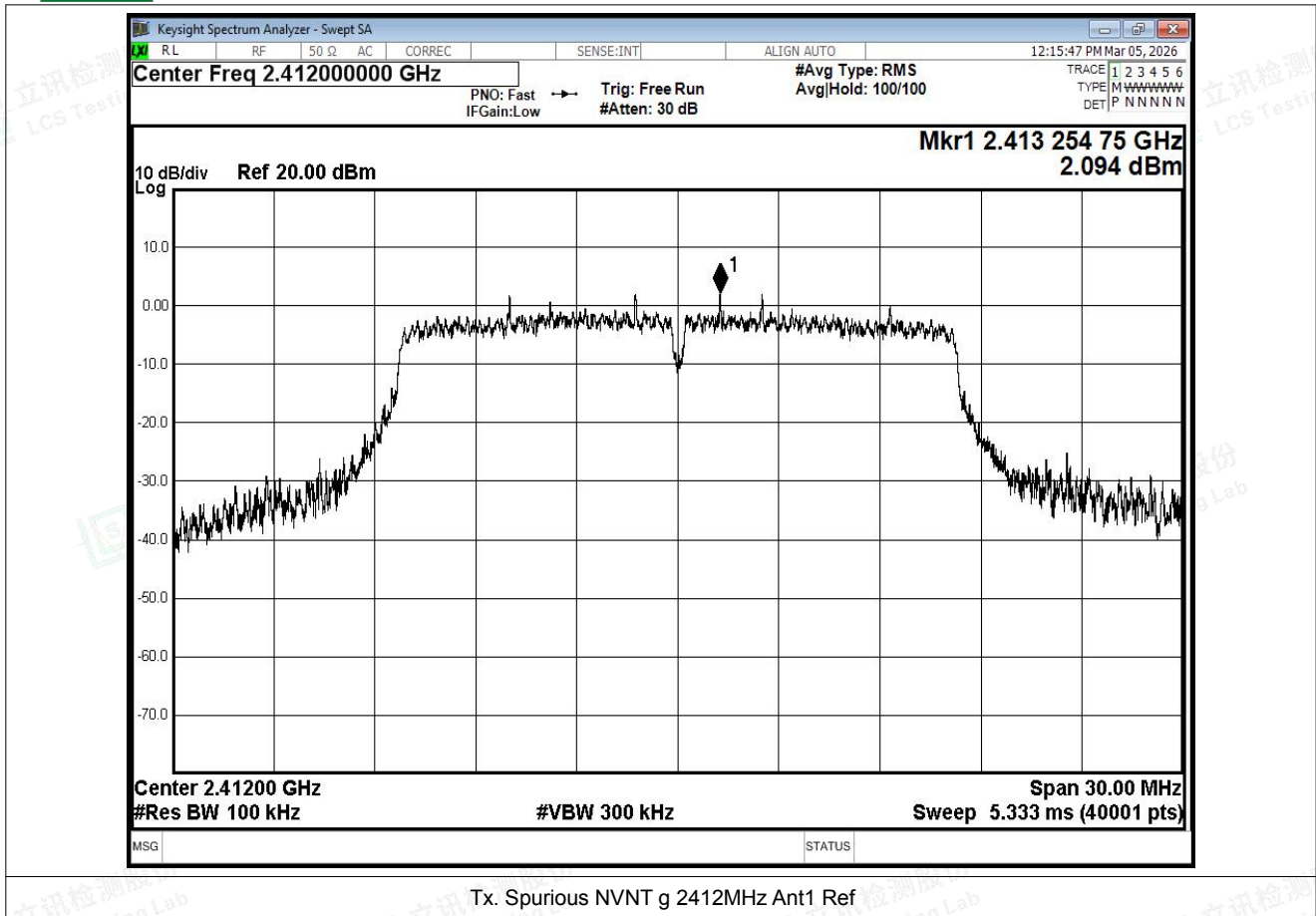


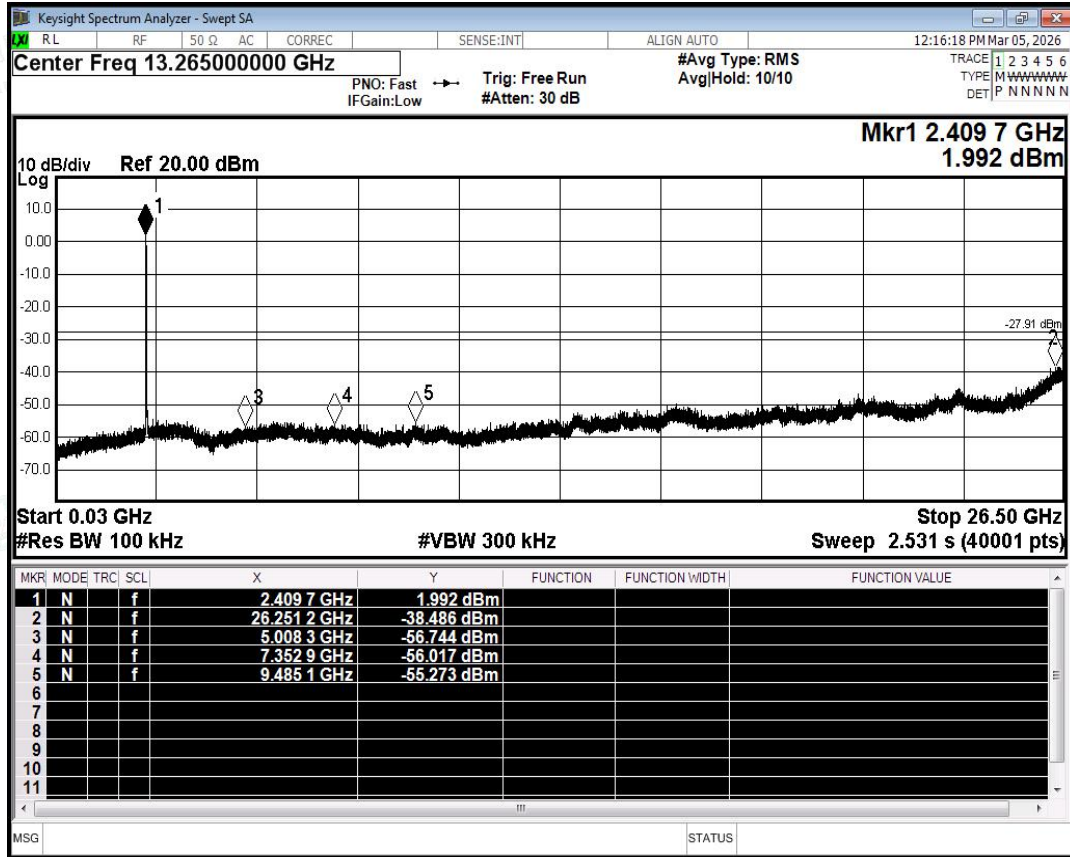
A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	g	2412	Ant1	-40.57	-30	Pass
NVNT	g	2437	Ant1	-39.66	-30	Pass
NVNT	g	2462	Ant1	-38.51	-30	Pass



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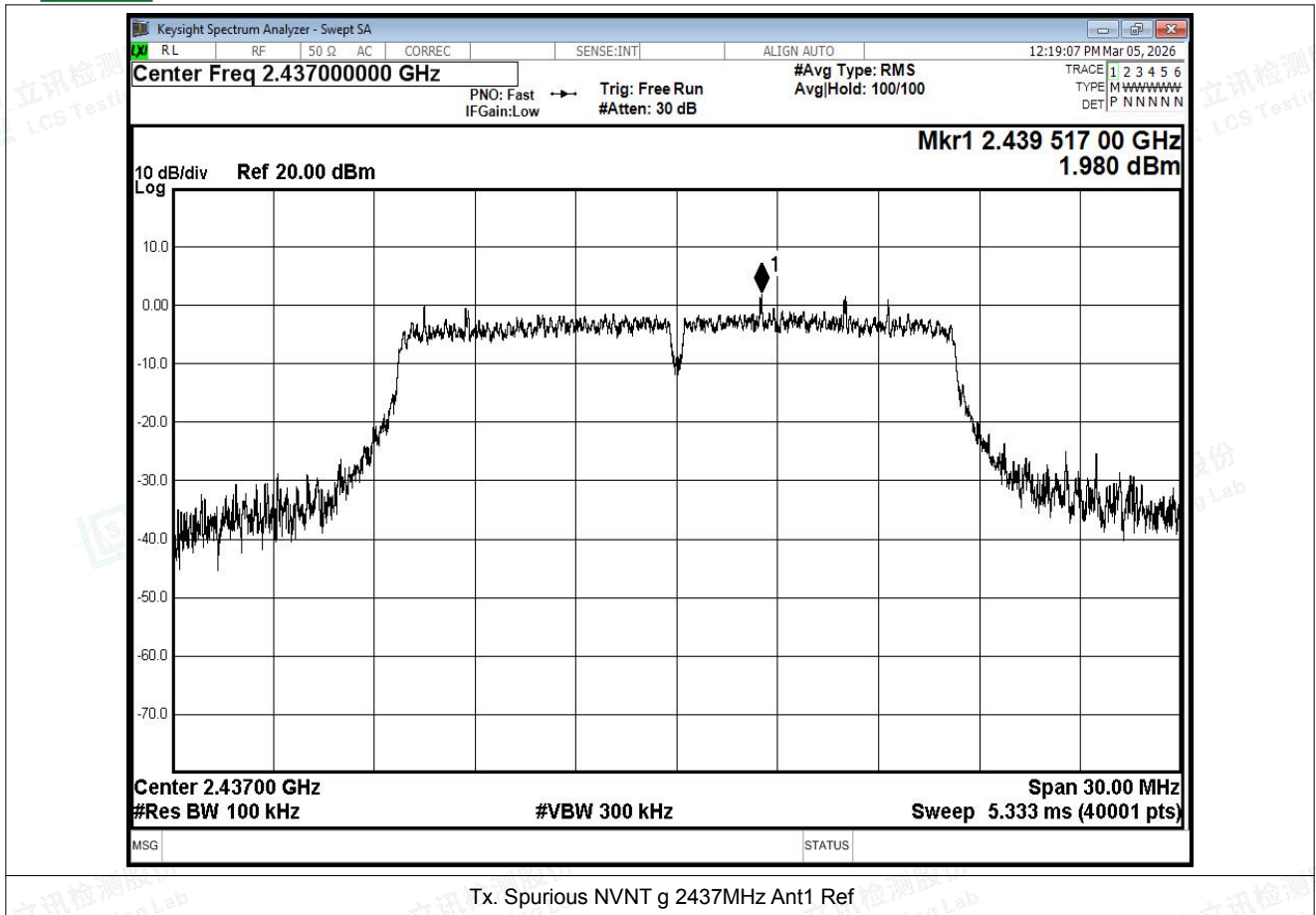


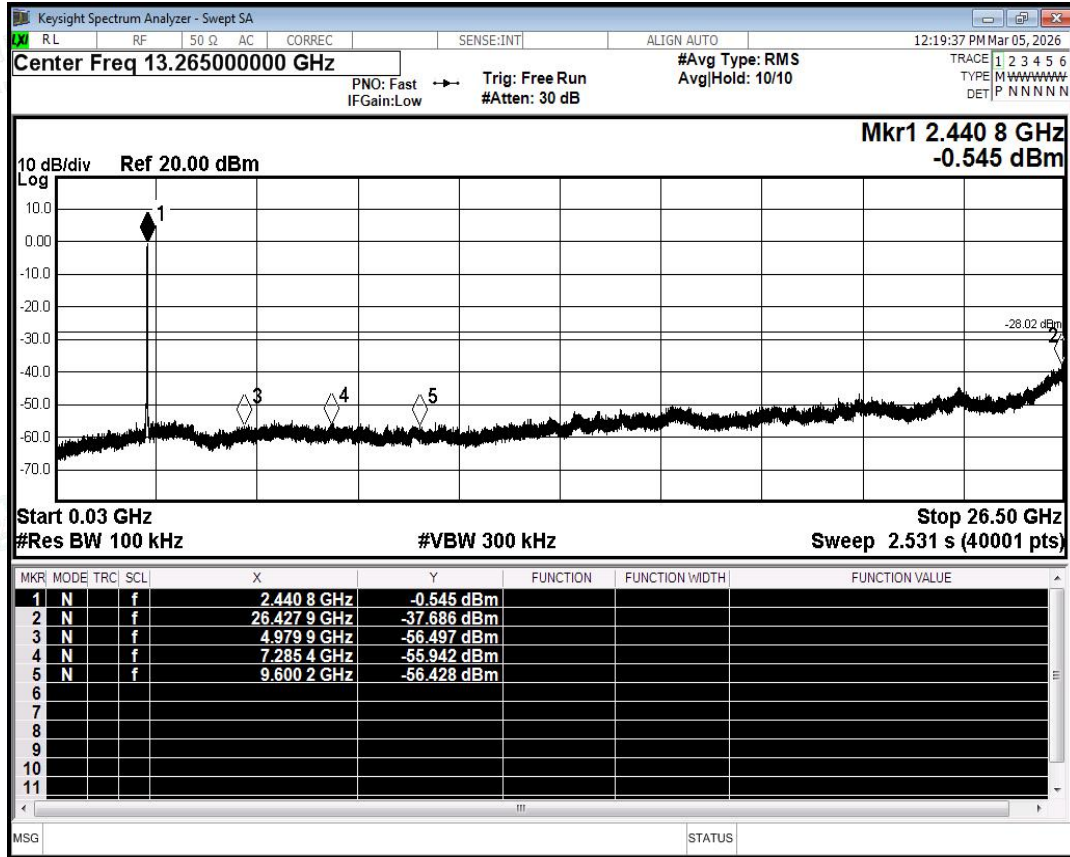


Tx. Spurious NVNT g 2412MHz Ant1 Emission



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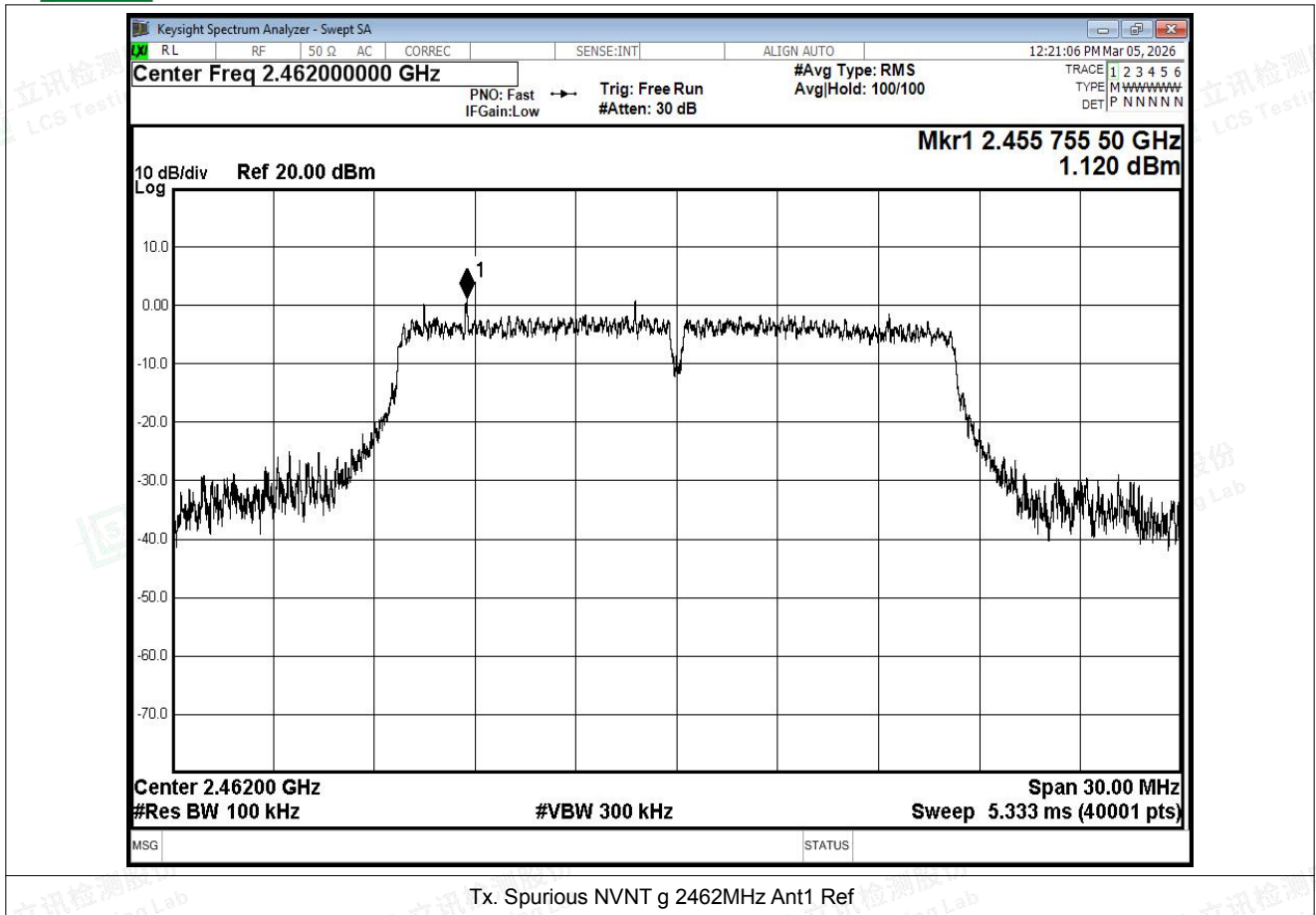


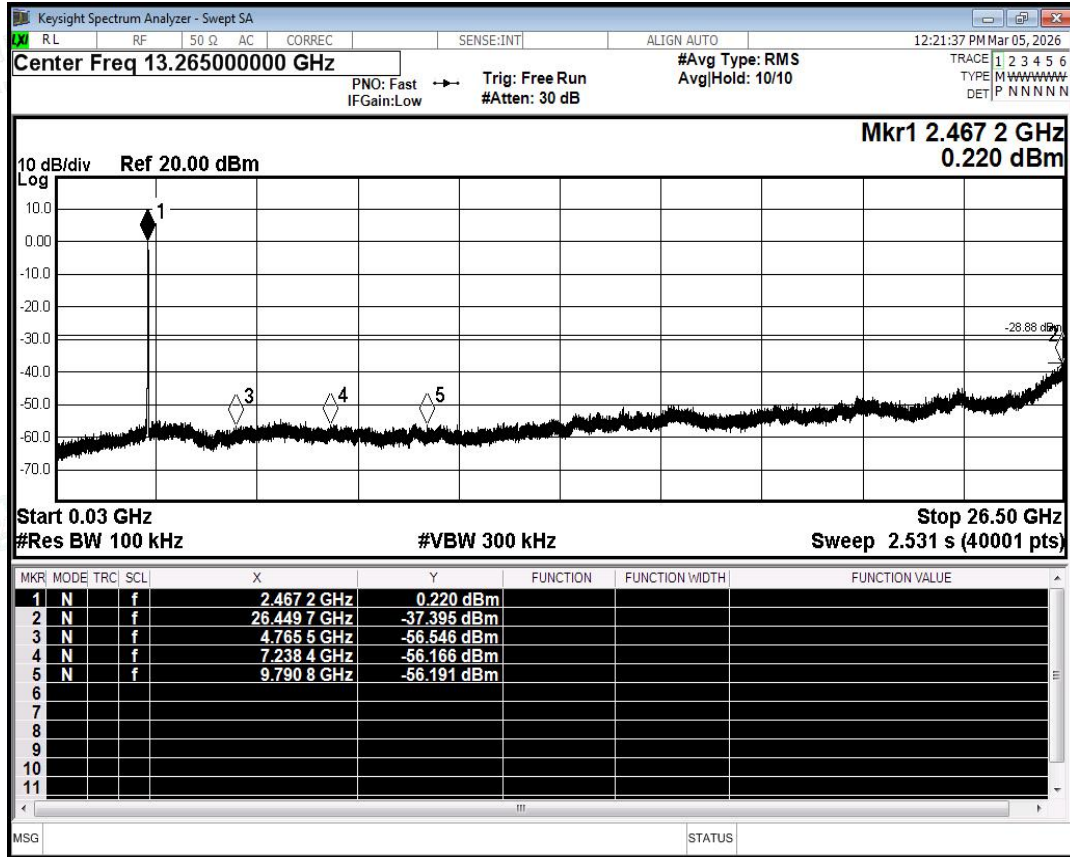


Tx. Spurious NVNT g 2437MHz Ant1 Emission



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Tx. Spurious NVNT g 2462MHz Ant1 Emission



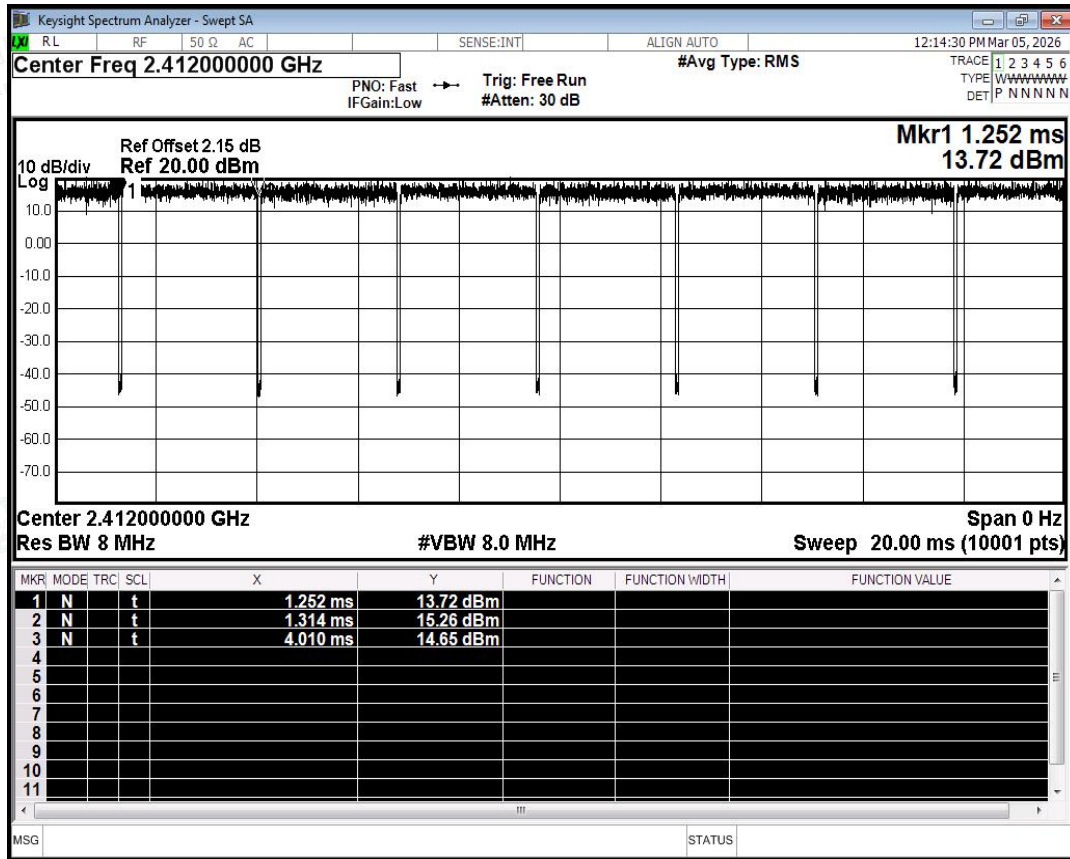
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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	g	2412	Ant1	97.75	0.1	0.37
NVNT	g	2437	Ant1	97.75	0.1	0.37
NVNT	g	2462	Ant1	97.68	0.1	0.37

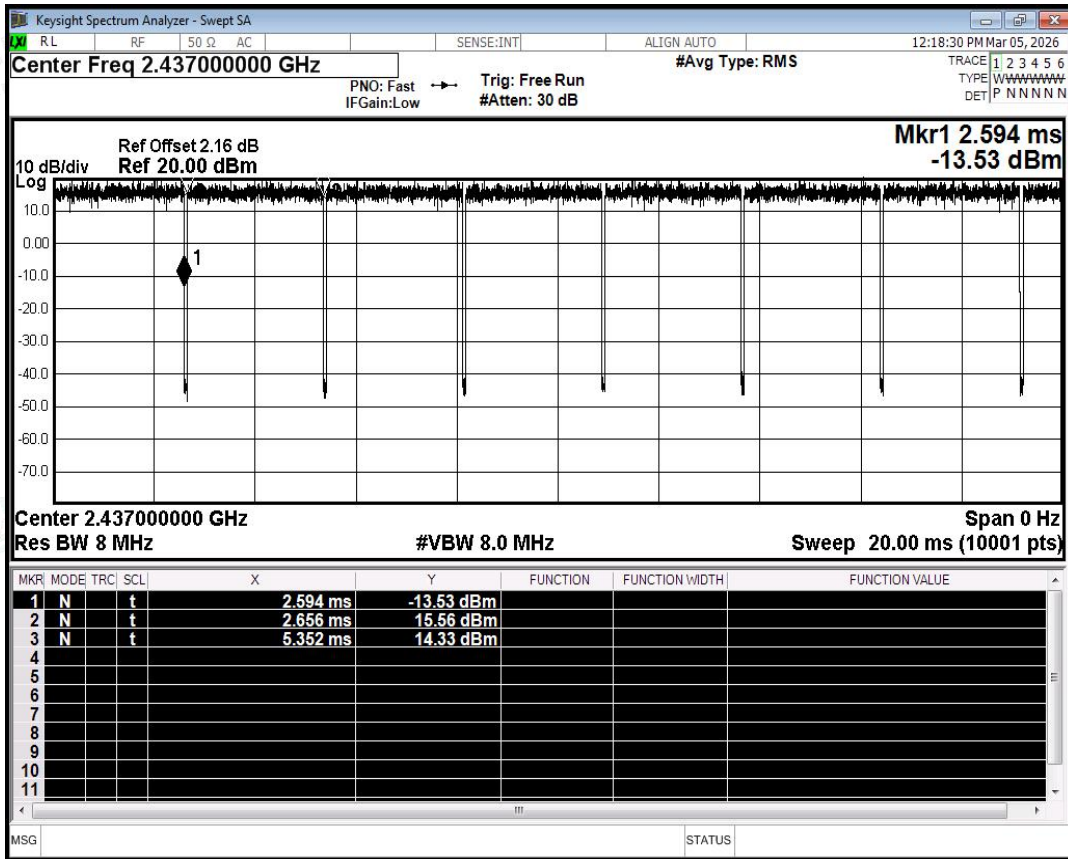




Duty Cycle NVNT g 2412MHz Ant1



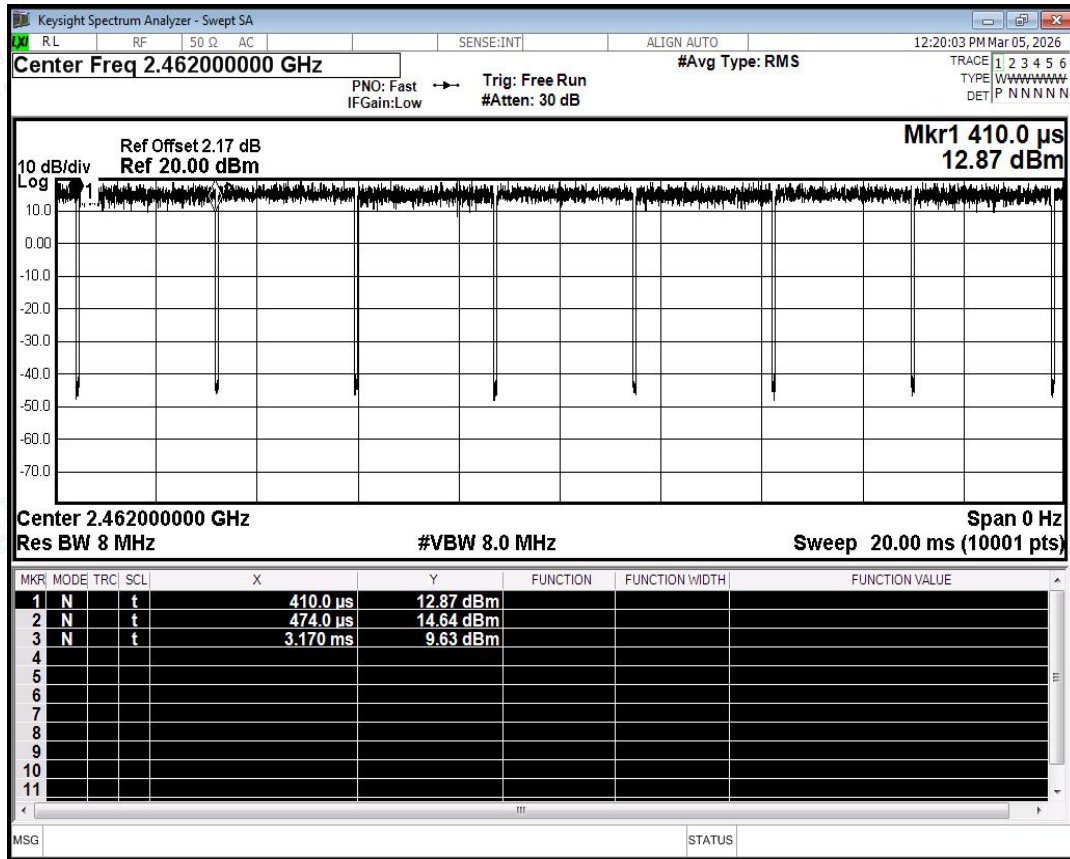
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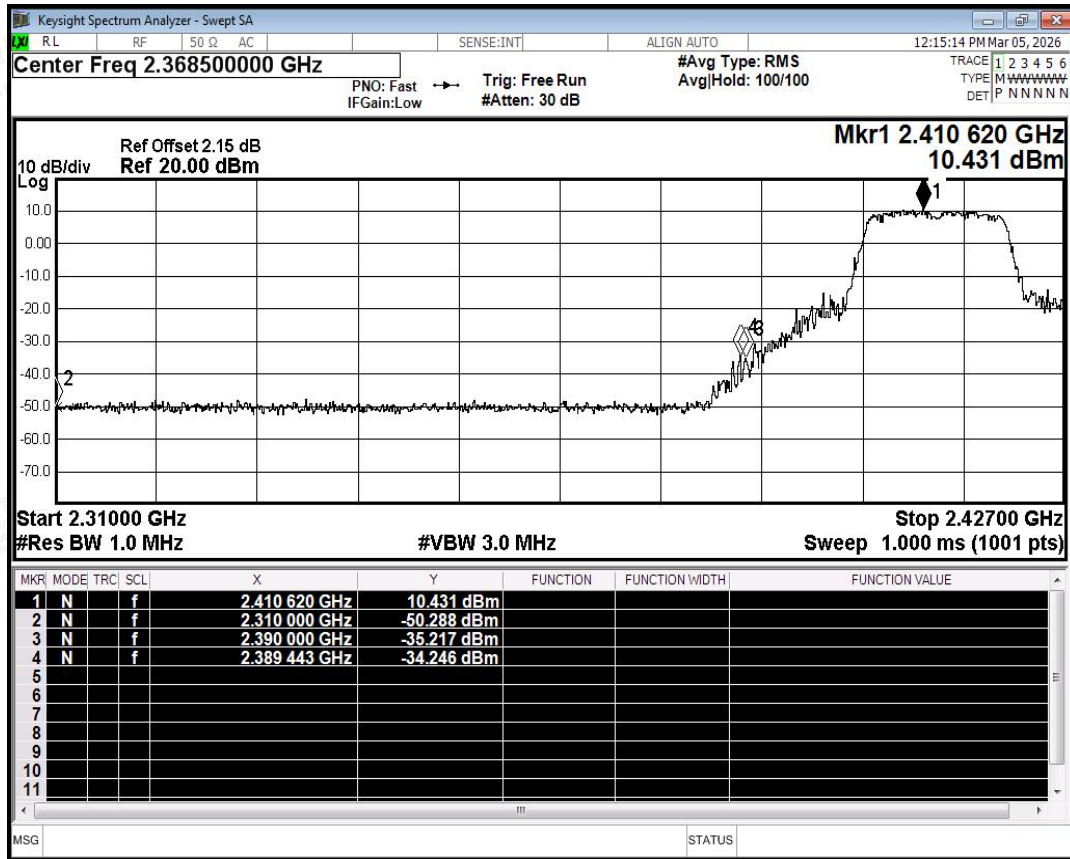
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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	g	2412	Ant1	2310	-50.28	2.00	46.98	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-57.51	2.00	39.75	Average	54	Pass
NVNT	g	2412	Ant1	2389.443	-34.24	2.00	63.02	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-48.57	2.00	48.69	Average	54	Pass
NVNT	g	2412	Ant1	2390	-35.21	2.00	62.05	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-48.57	2.00	48.69	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-34.65	2.00	62.61	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-49.04	2.00	48.22	Average	54	Pass
NVNT	g	2462	Ant1	2483.994	-31.11	2.00	66.15	Peak	74	Pass
NVNT	g	2462	Ant1	2483.57	-48.95	2.00	48.31	Average	54	Pass
NVNT	g	2462	Ant1	2500	-60.03	2.00	37.23	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-67.36	2.00	29.90	Average	54	Pass

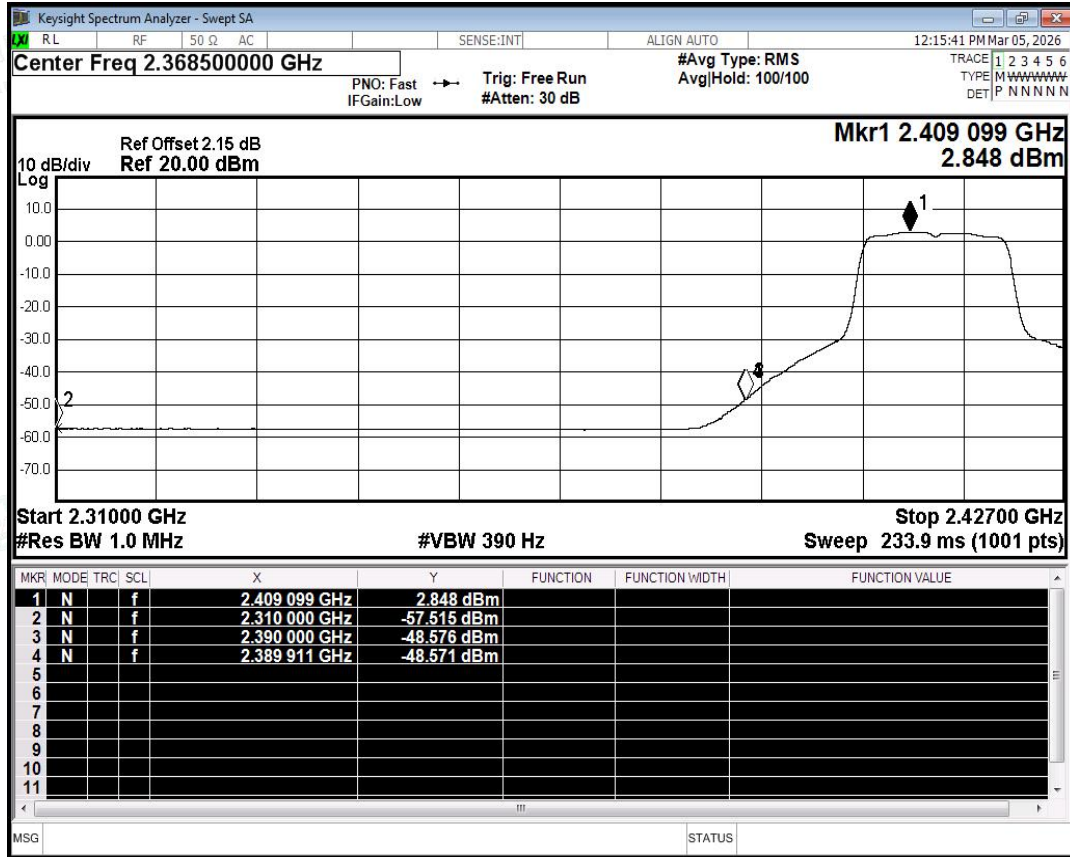




Restrict Band NVNT g 2412MHz Ant1 Peak



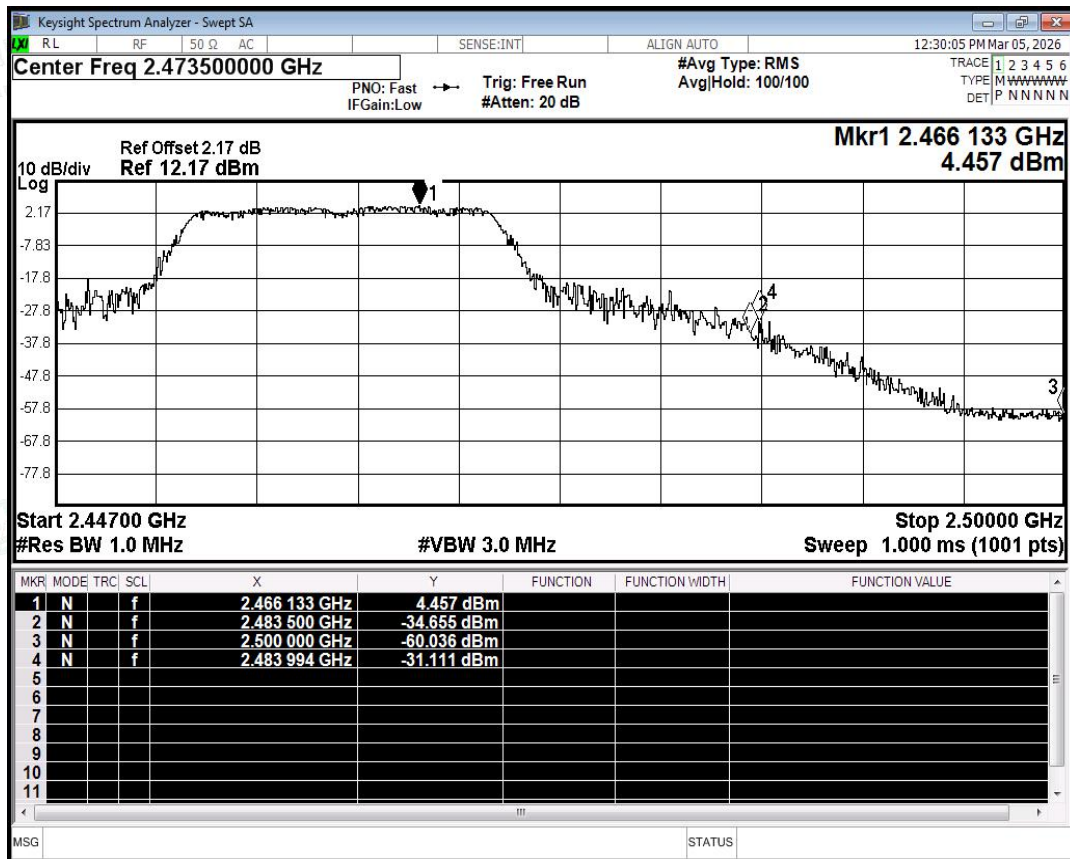
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Restrict Band NVNT g 2412MHz Ant1 Average



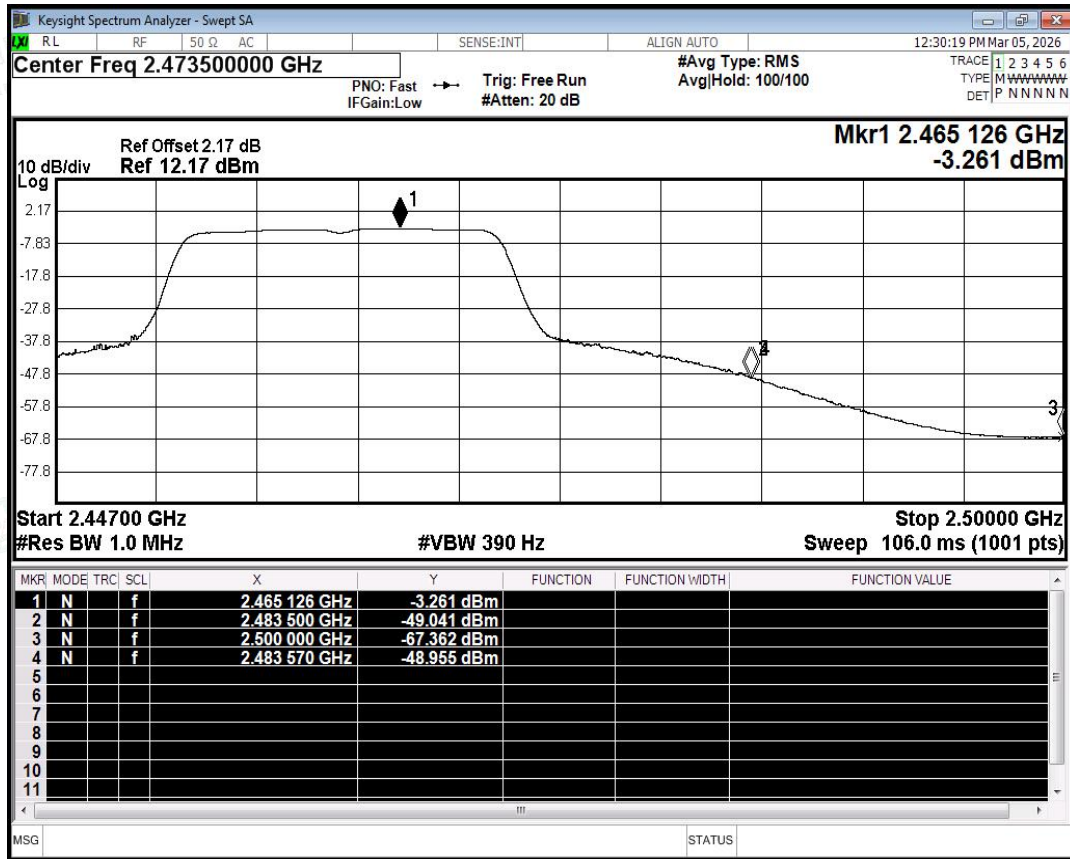
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Restrict Band NVNT g 2462MHz Ant1 Peak



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Restrict Band NVNT g 2462MHz Ant1 Average



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