



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart Flood String Light

Test Model: LSE-042-W3

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li huan



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A.1 6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	6 dB Bandwidth (MHz)	Limit 6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.298	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.102	≥ 0.5	Pass
NVNT	b	2462	Ant1	7.241	≥ 0.5	Pass
NVNT	g	2412	Ant1	15.266	≥ 0.5	Pass
NVNT	g	2437	Ant1	15.402	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.381	≥ 0.5	Pass
NVNT	n20	2412	Ant1	17.343	≥ 0.5	Pass
NVNT	n20	2437	Ant1	14.486	≥ 0.5	Pass
NVNT	n20	2462	Ant1	17.589	≥ 0.5	Pass



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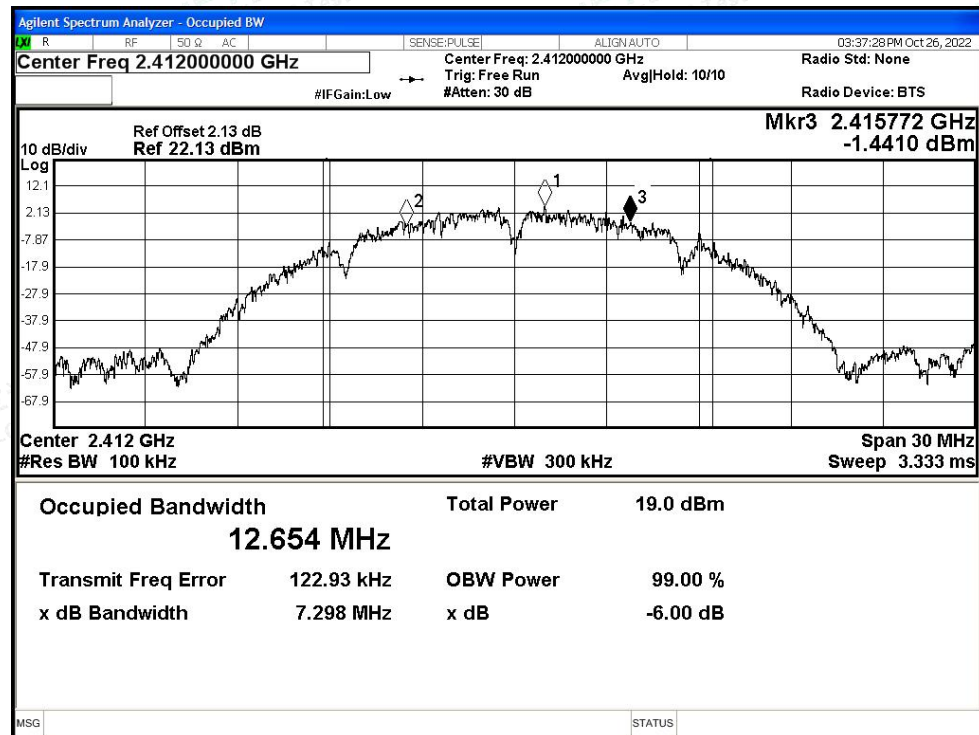
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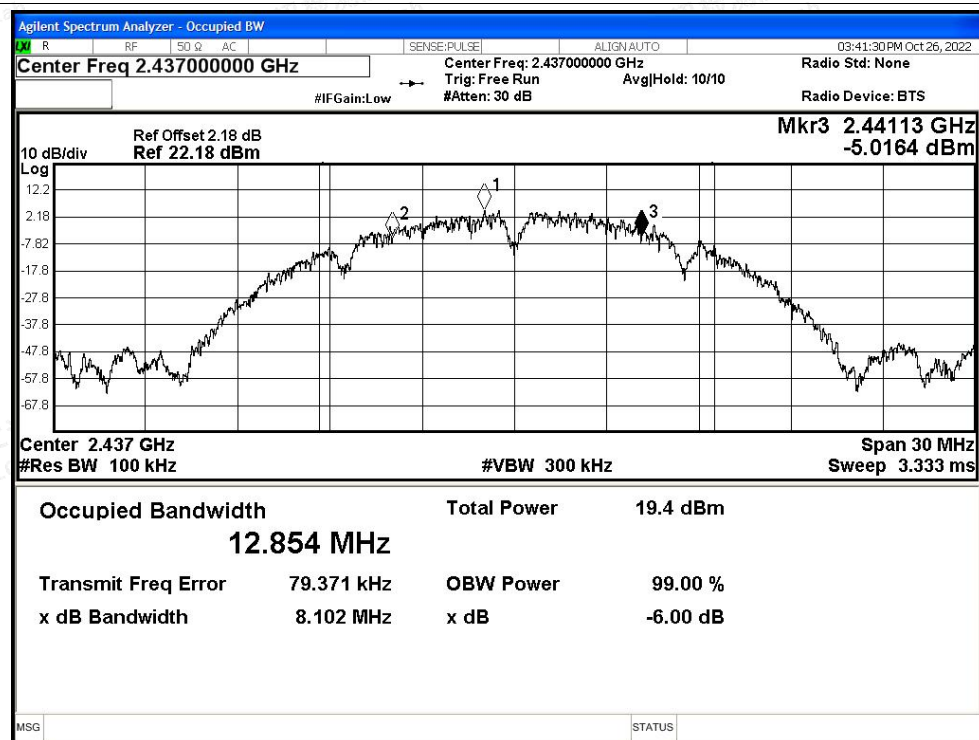


Test Graphs

6dB Bandwidth NVNT b 2412MHz Ant1



6dB Bandwidth NVNT b 2437MHz Ant1



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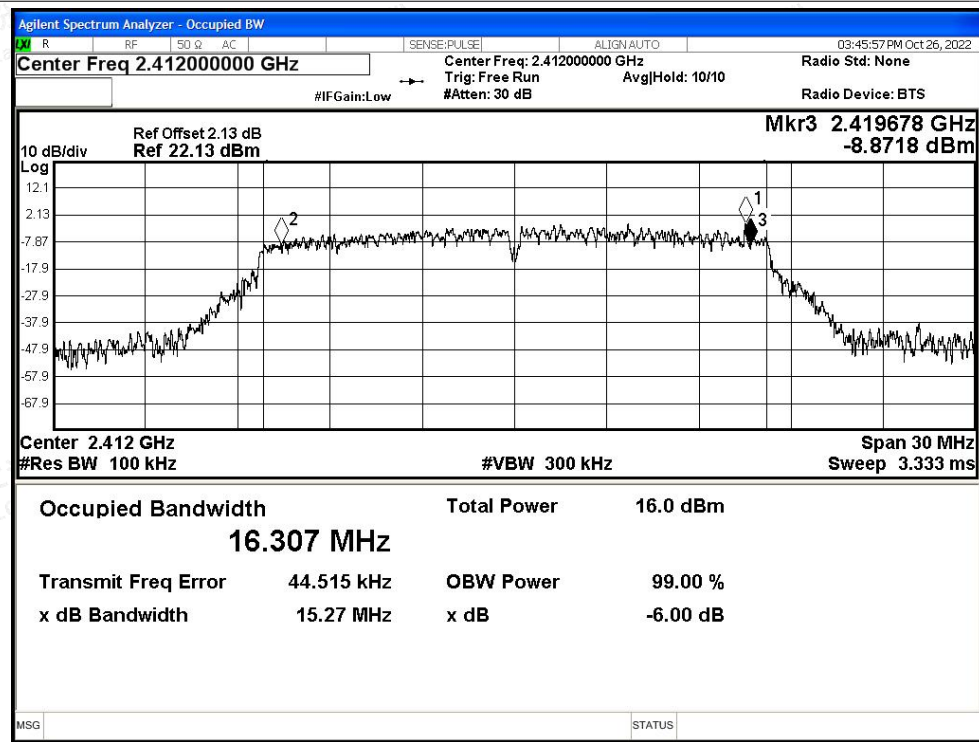
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6dB Bandwidth NVNT b 2462MHz Ant1



6dB Bandwidth NVNT g 2412MHz Ant1



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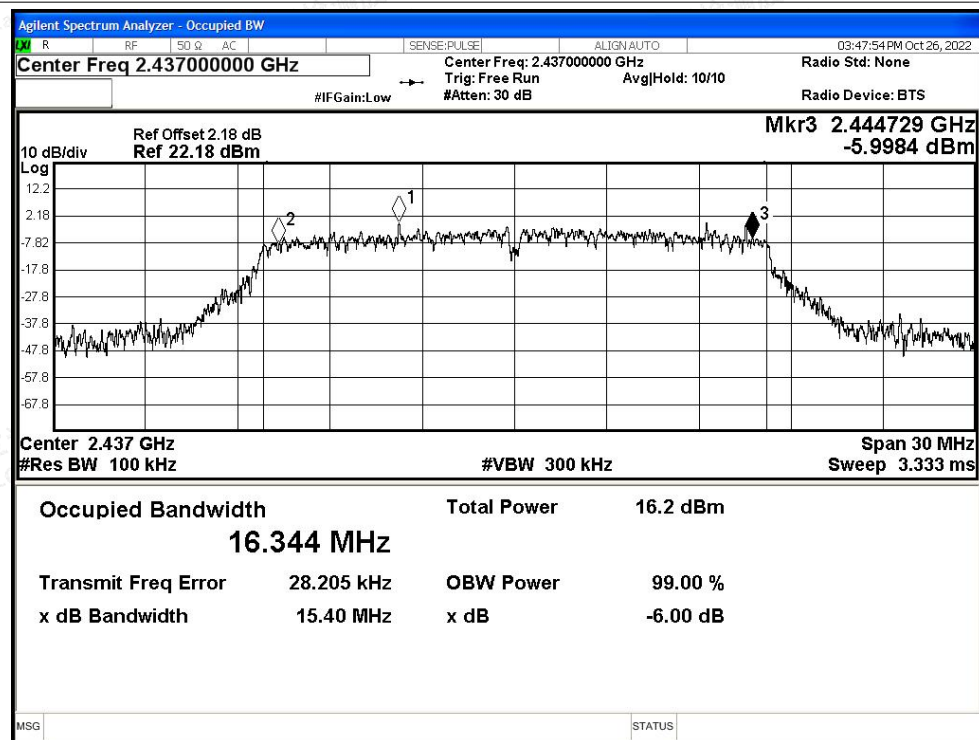
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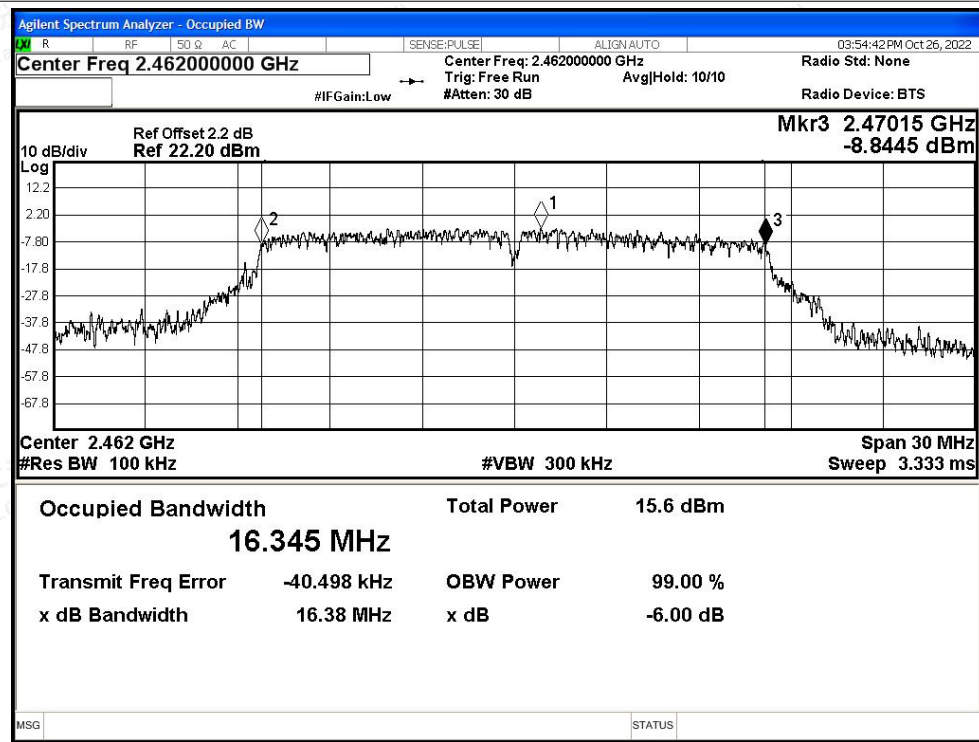
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6dB Bandwidth NVNT g 2437MHz Ant1



6dB Bandwidth NVNT g 2462MHz Ant1



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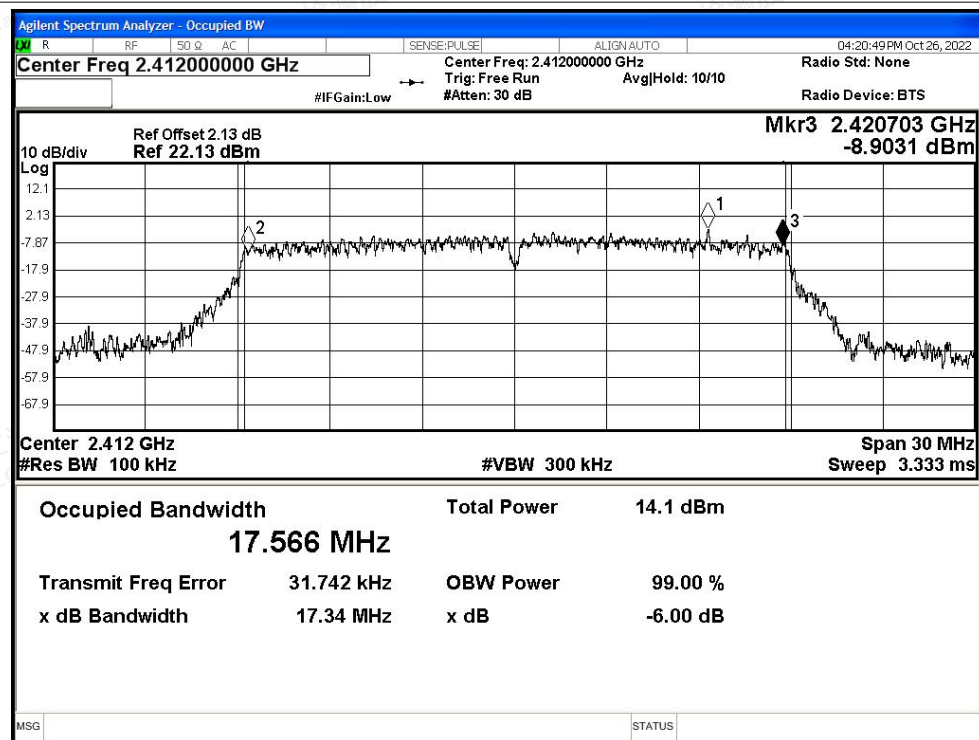
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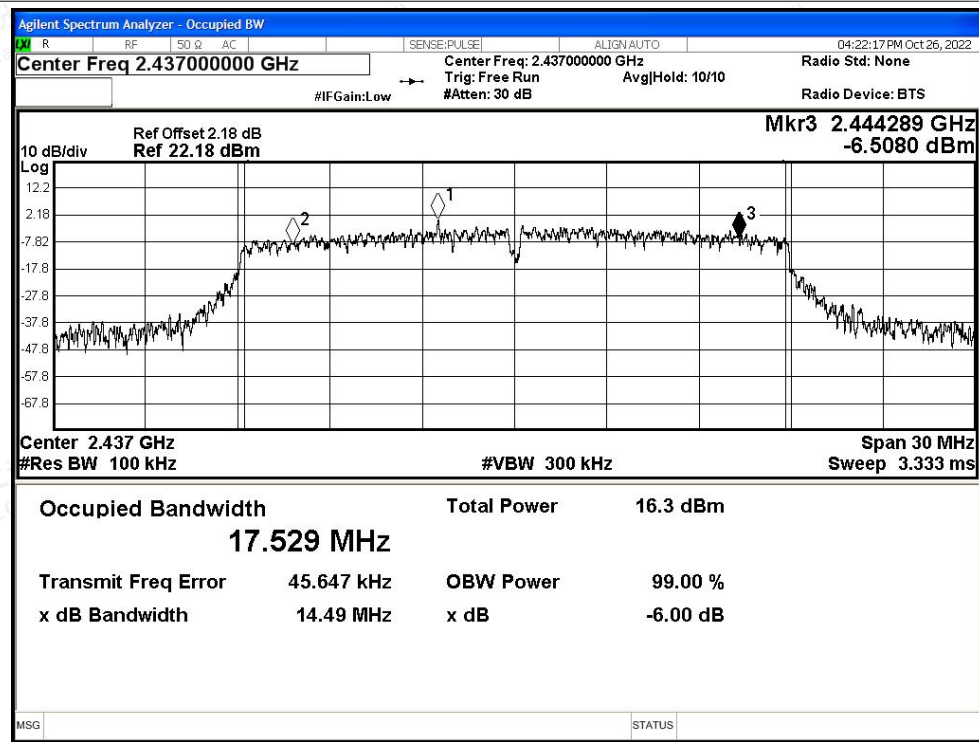
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6dB Bandwidth NVNT n20 2412MHz Ant1



6dB Bandwidth NVNT n20 2437MHz Ant1

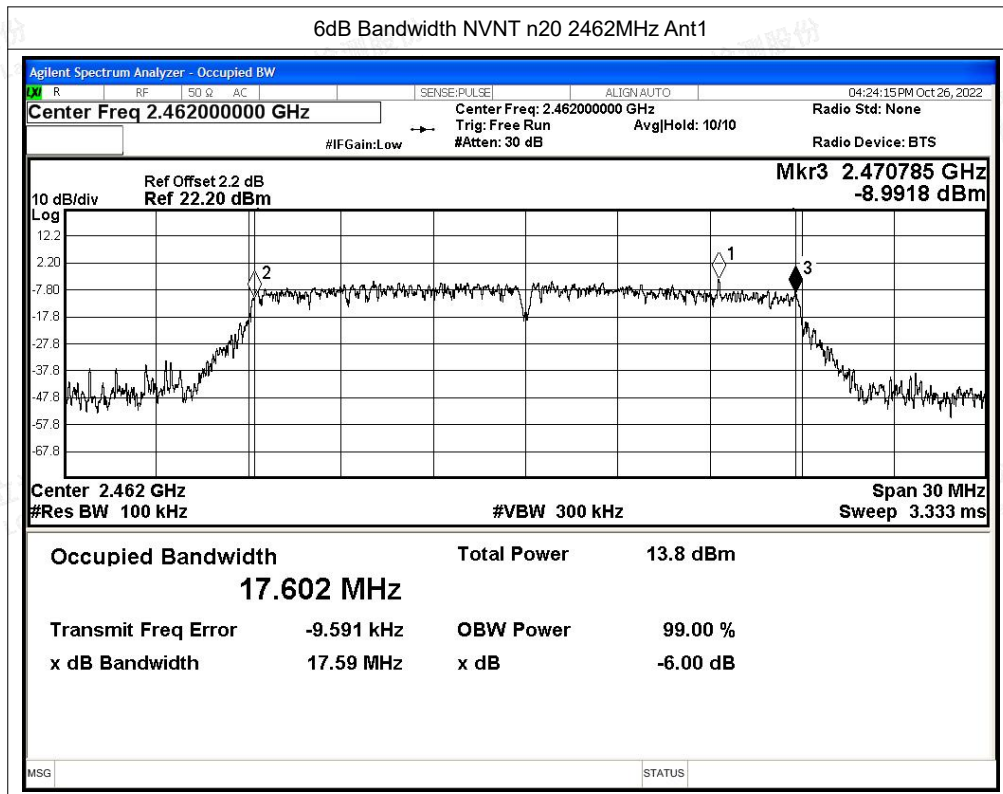


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Peak Conducted Output Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.42	30	Pass
NVNT	b	2437	Ant1	15.86	30	Pass
NVNT	b	2462	Ant1	15.23	30	Pass
NVNT	g	2412	Ant1	14.65	30	Pass
NVNT	g	2437	Ant1	14.77	30	Pass
NVNT	g	2462	Ant1	14.44	30	Pass
NVNT	n20	2412	Ant1	13.22	30	Pass
NVNT	n20	2437	Ant1	13.8	30	Pass
NVNT	n20	2462	Ant1	13.6	30	Pass



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A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-8.91	8	Pass
NVNT	b	2437	Ant1	-8.49	8	Pass
NVNT	b	2462	Ant1	-9.06	8	Pass
NVNT	g	2412	Ant1	-12.38	8	Pass
NVNT	g	2437	Ant1	-13.57	8	Pass
NVNT	g	2462	Ant1	-13.37	8	Pass
NVNT	n20	2412	Ant1	-13.02	8	Pass
NVNT	n20	2437	Ant1	-13.25	8	Pass
NVNT	n20	2462	Ant1	-15.18	8	Pass



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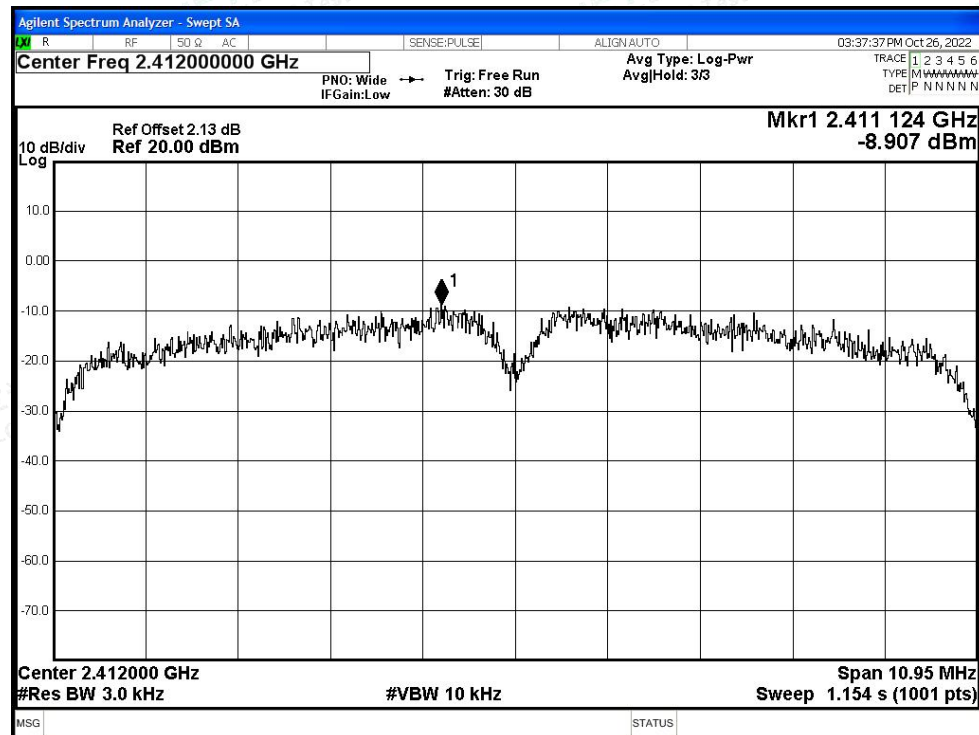
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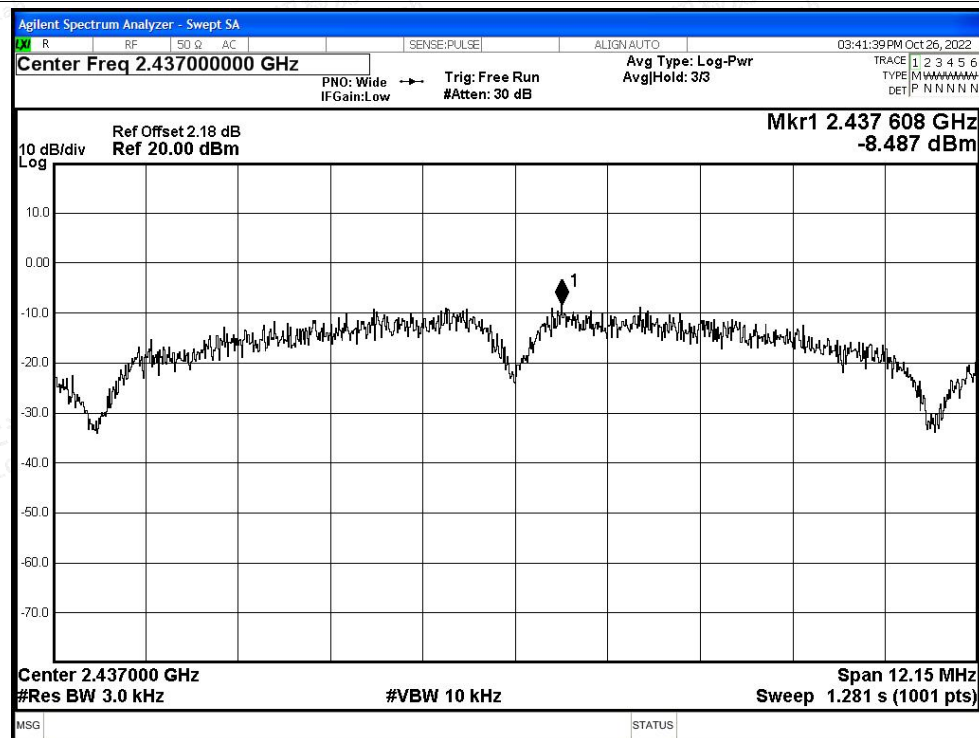


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1

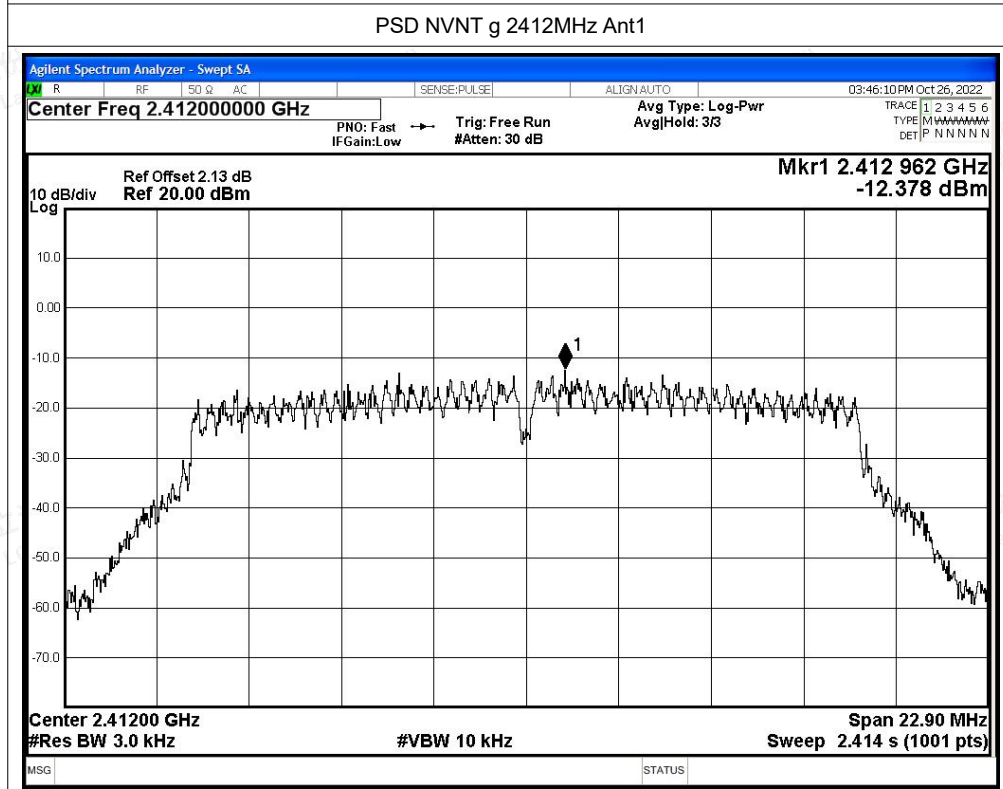
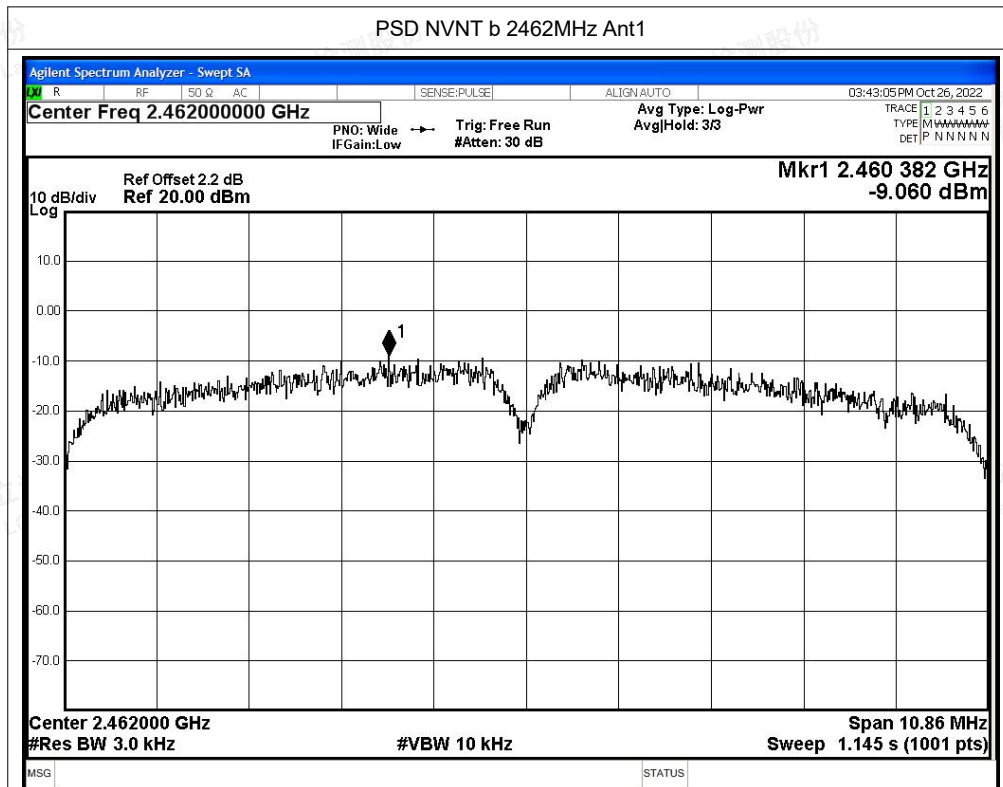


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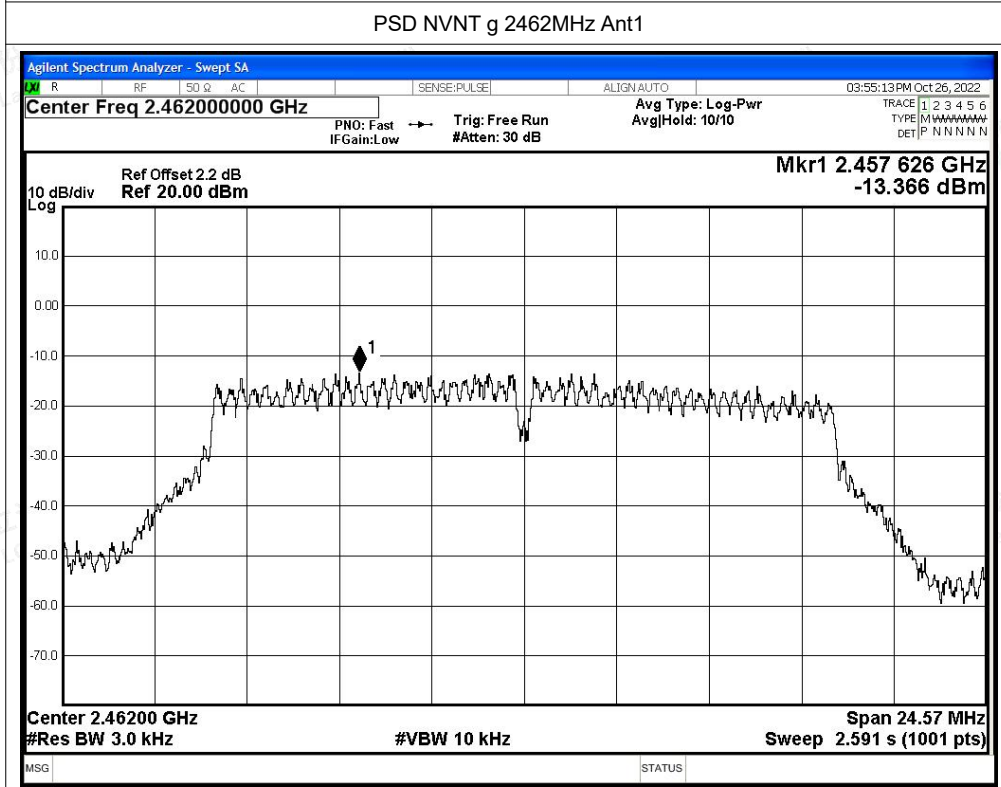
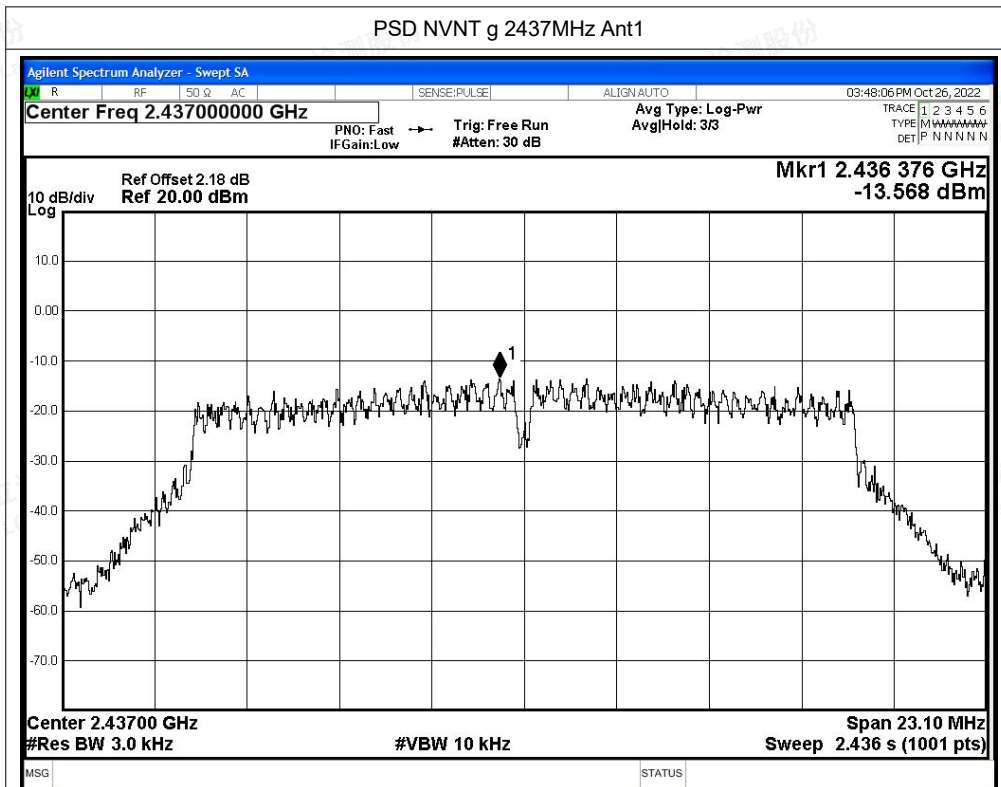


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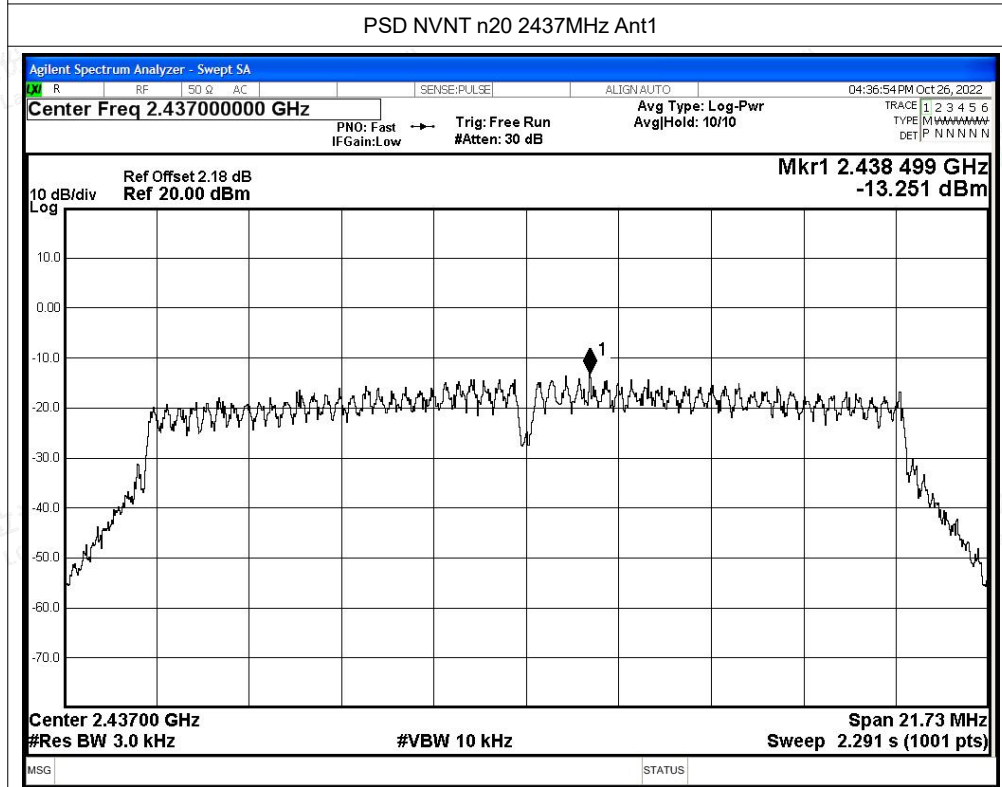
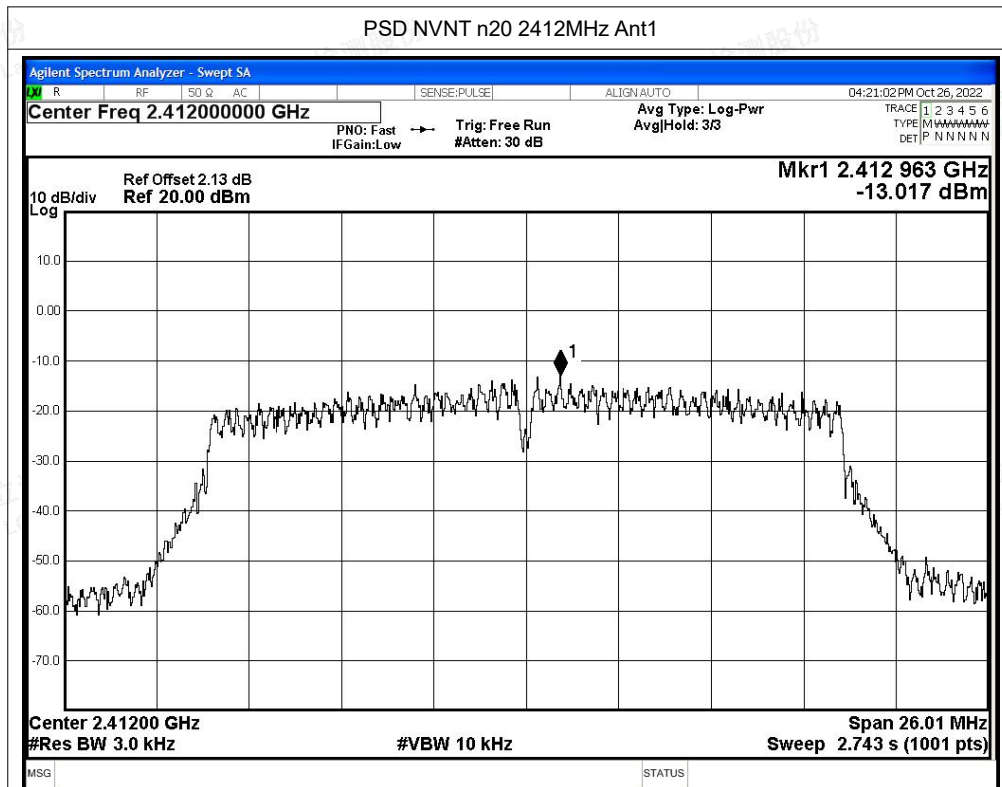


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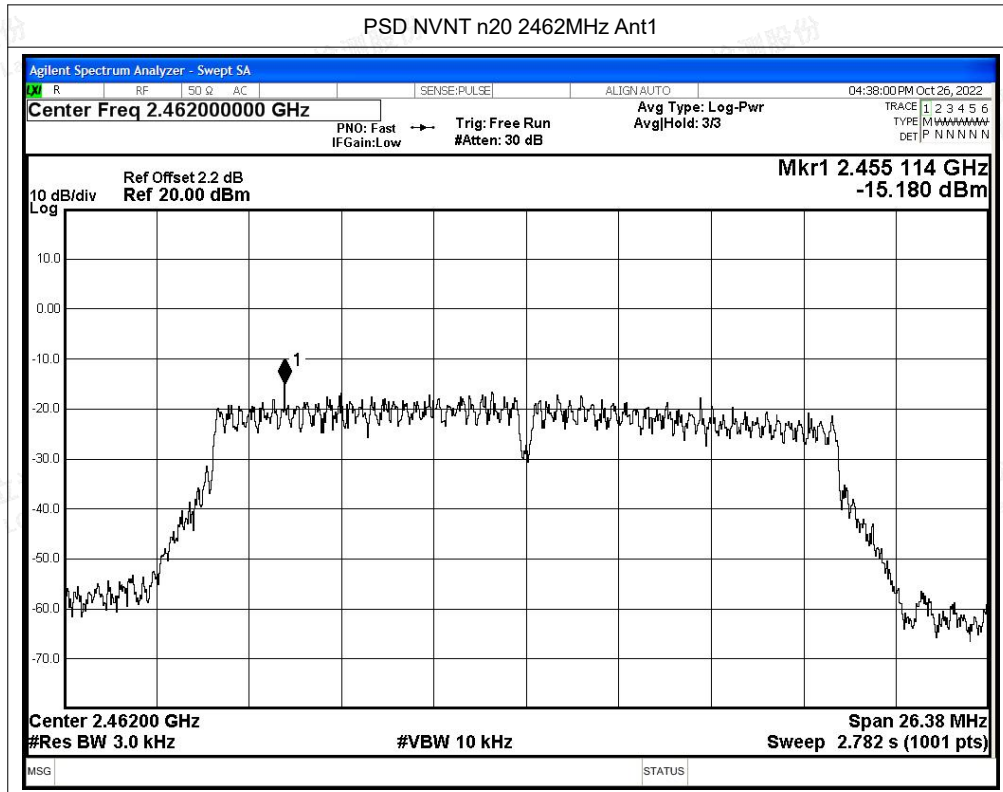


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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-56.67	-20	Pass
NVNT	b	2462	Ant1	-62.39	-20	Pass
NVNT	g	2412	Ant1	-40.23	-20	Pass
NVNT	g	2462	Ant1	-50.09	-20	Pass
NVNT	n20	2412	Ant1	-42.65	-20	Pass
NVNT	n20	2462	Ant1	-46	-20	Pass



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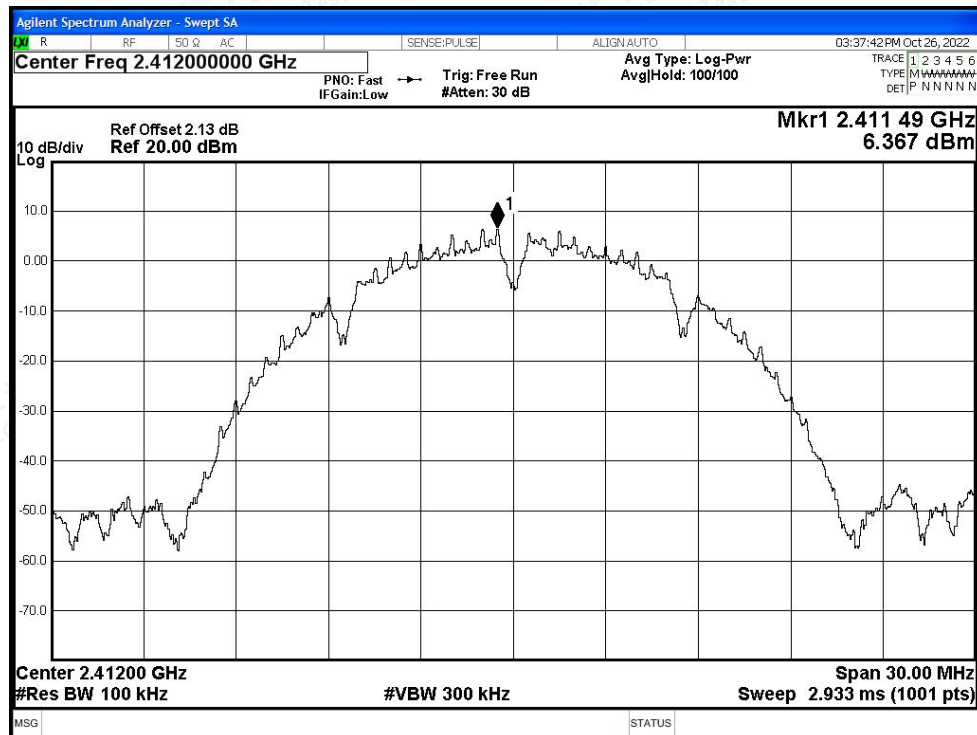
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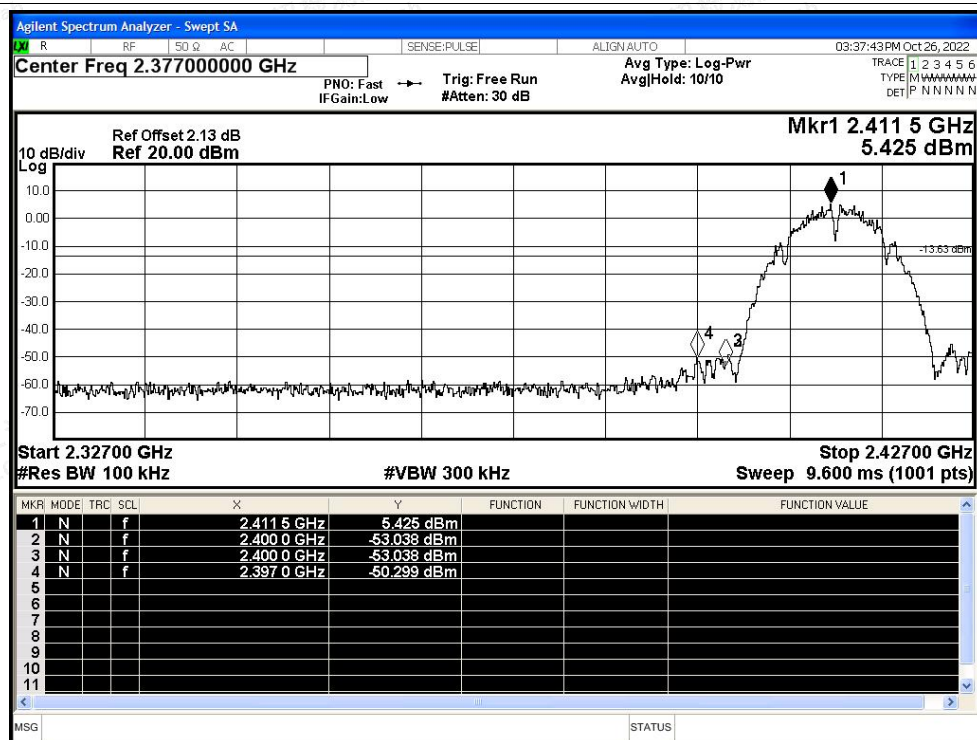


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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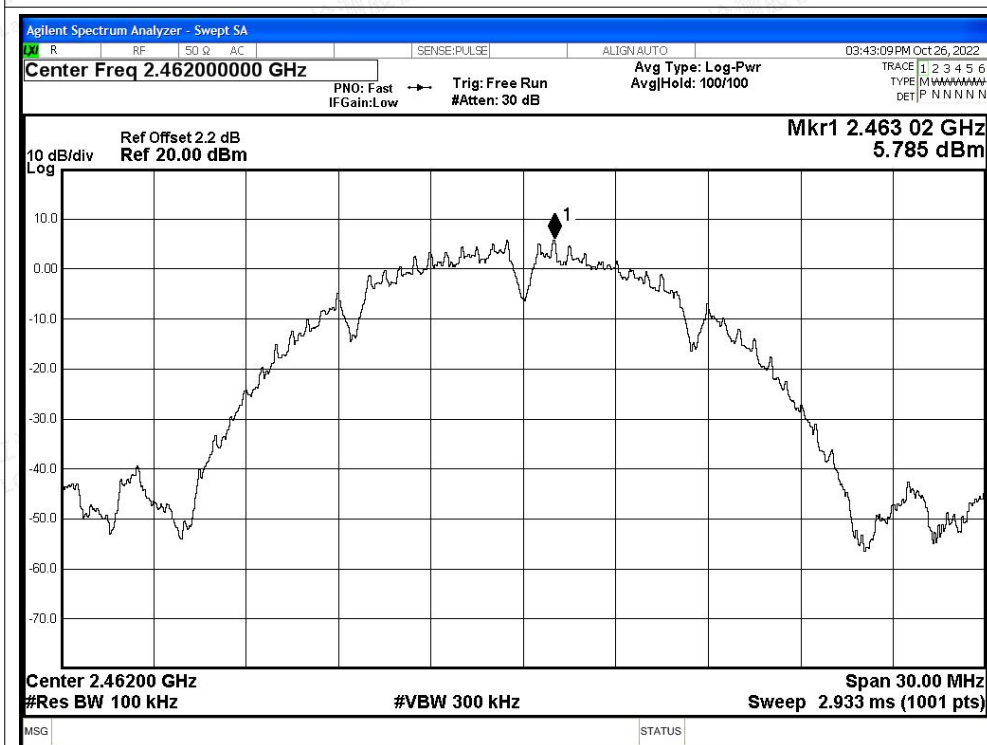
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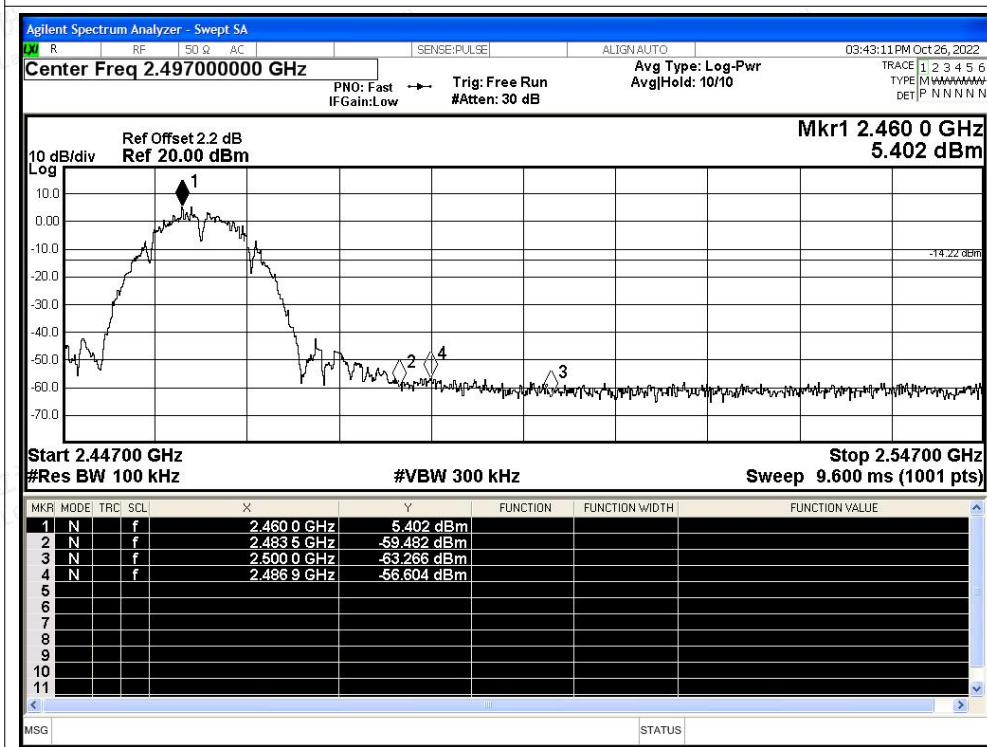
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Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



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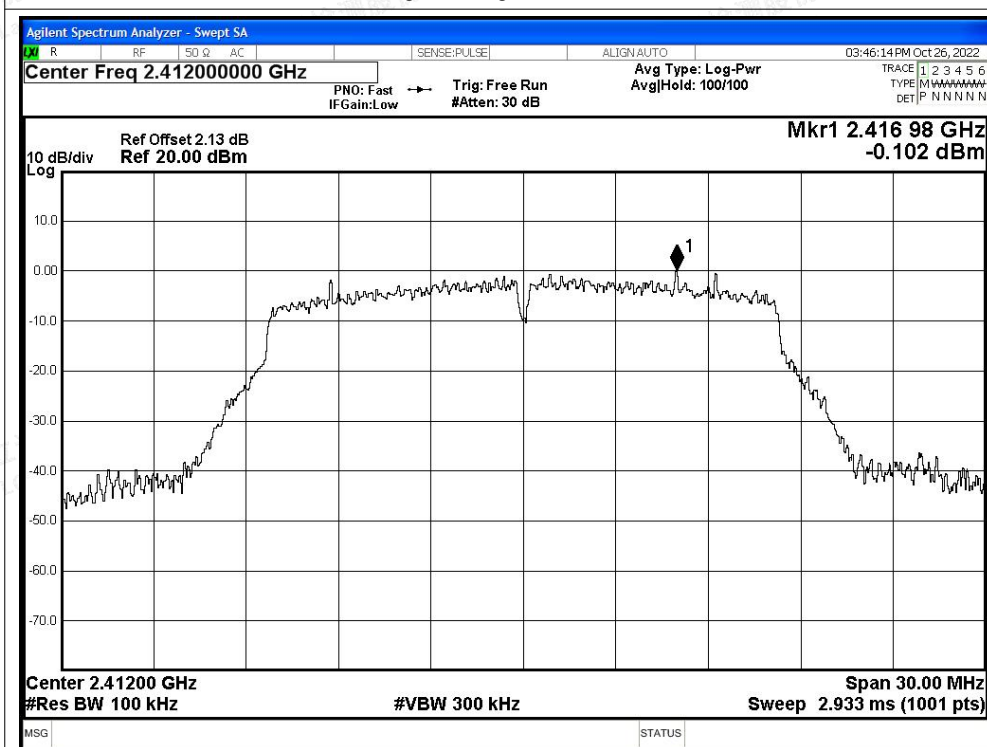
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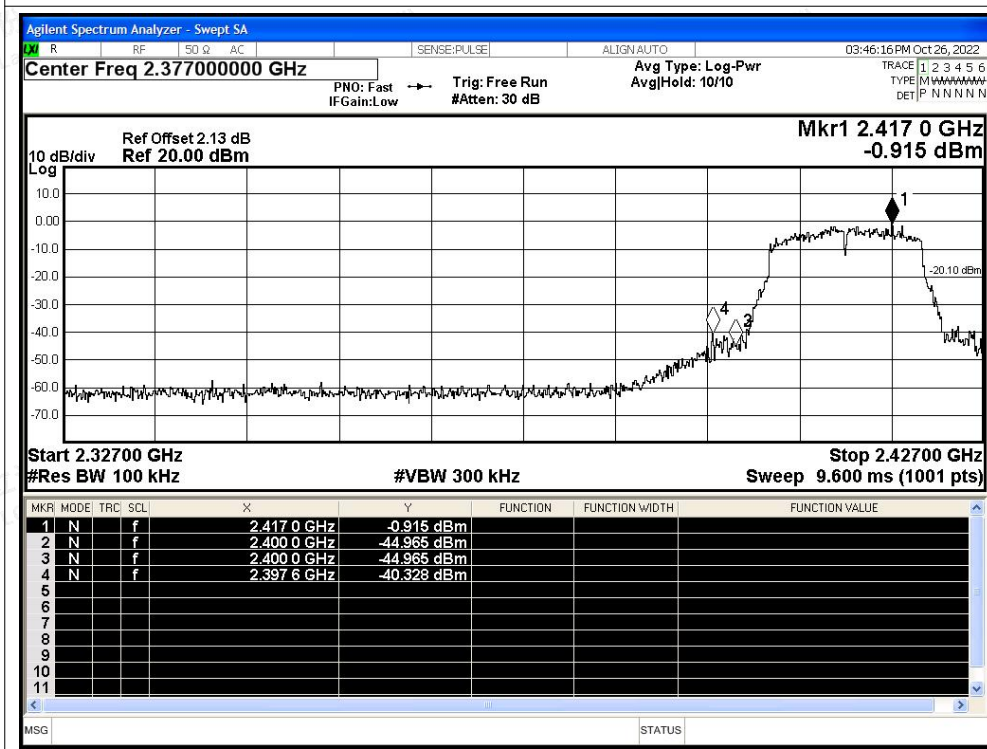
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Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



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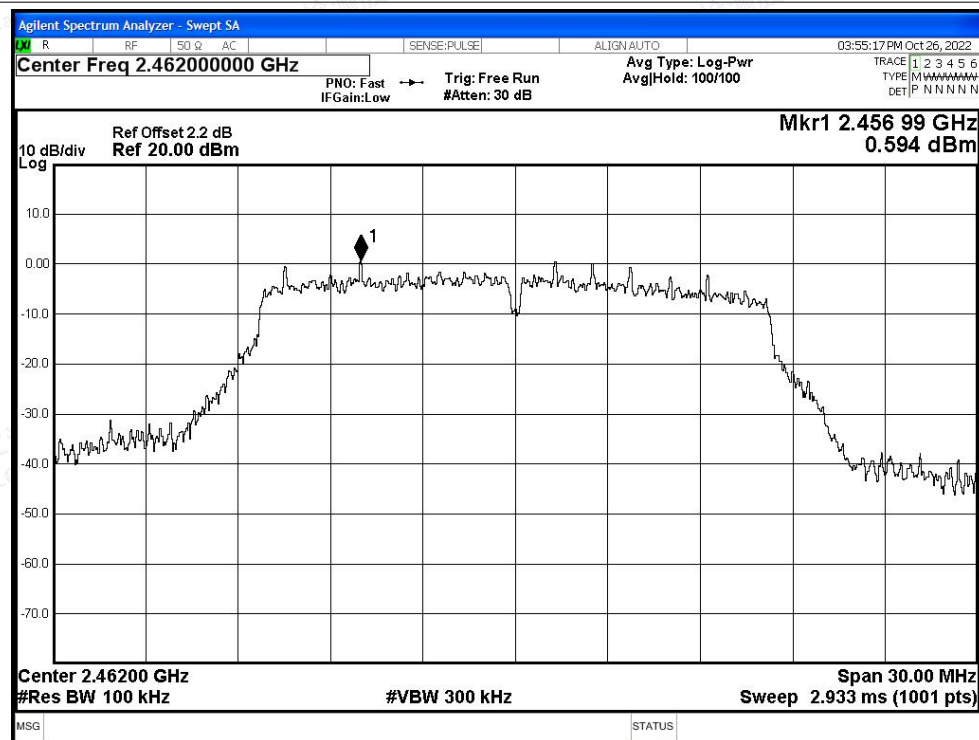
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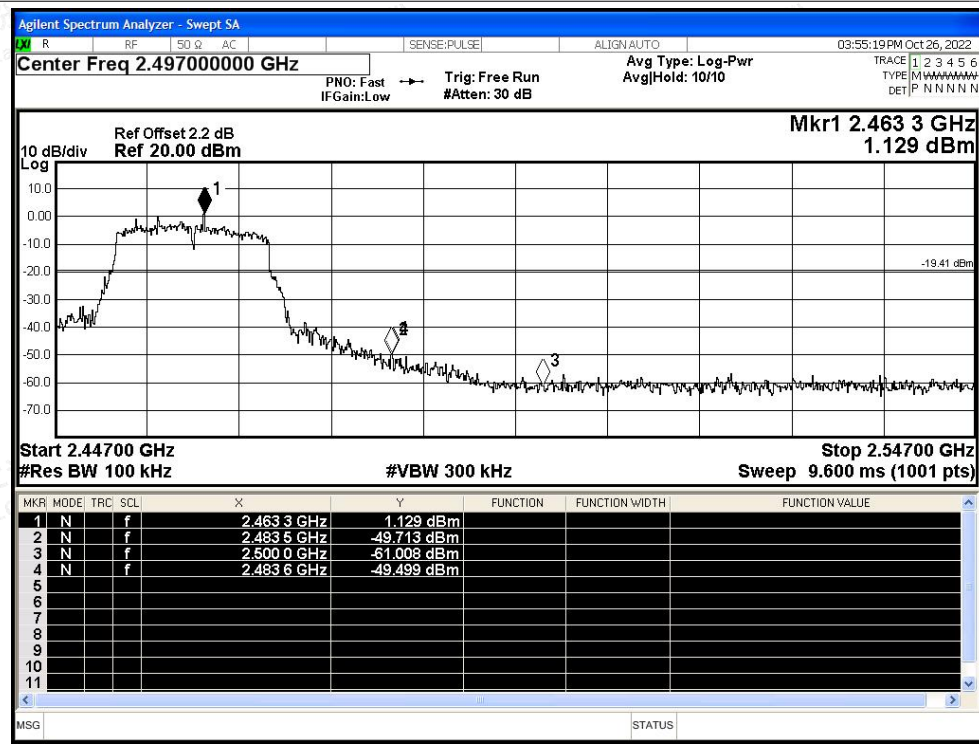
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Band Edge NVNT g 2462MHz Ant1 Emission

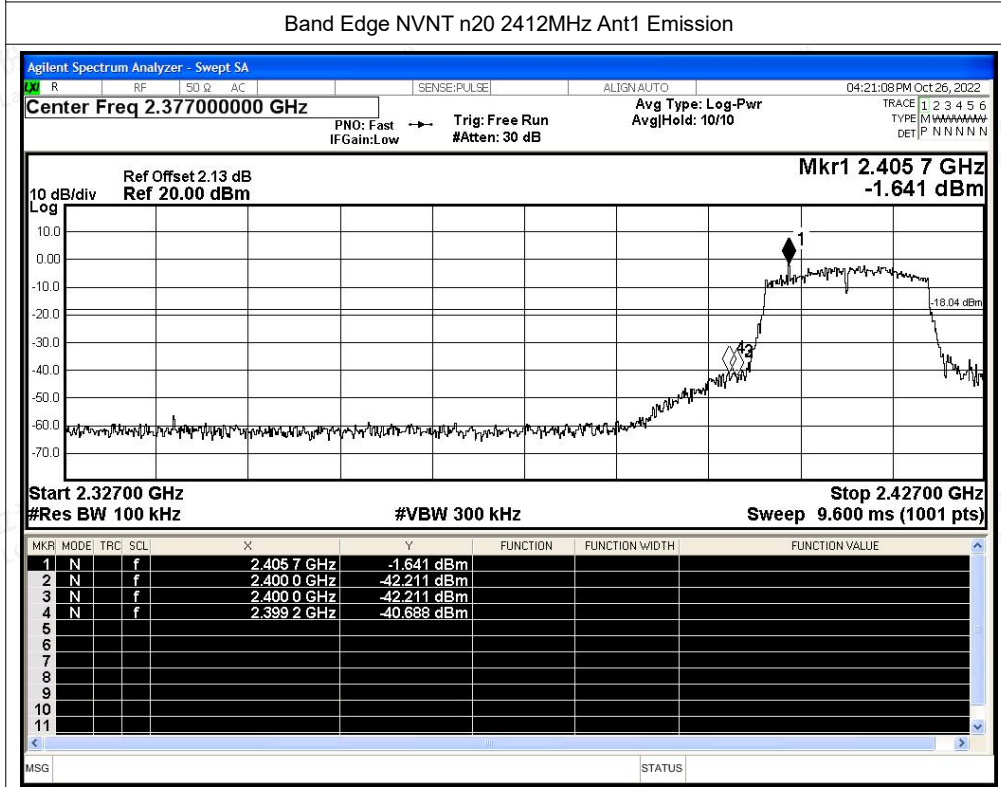
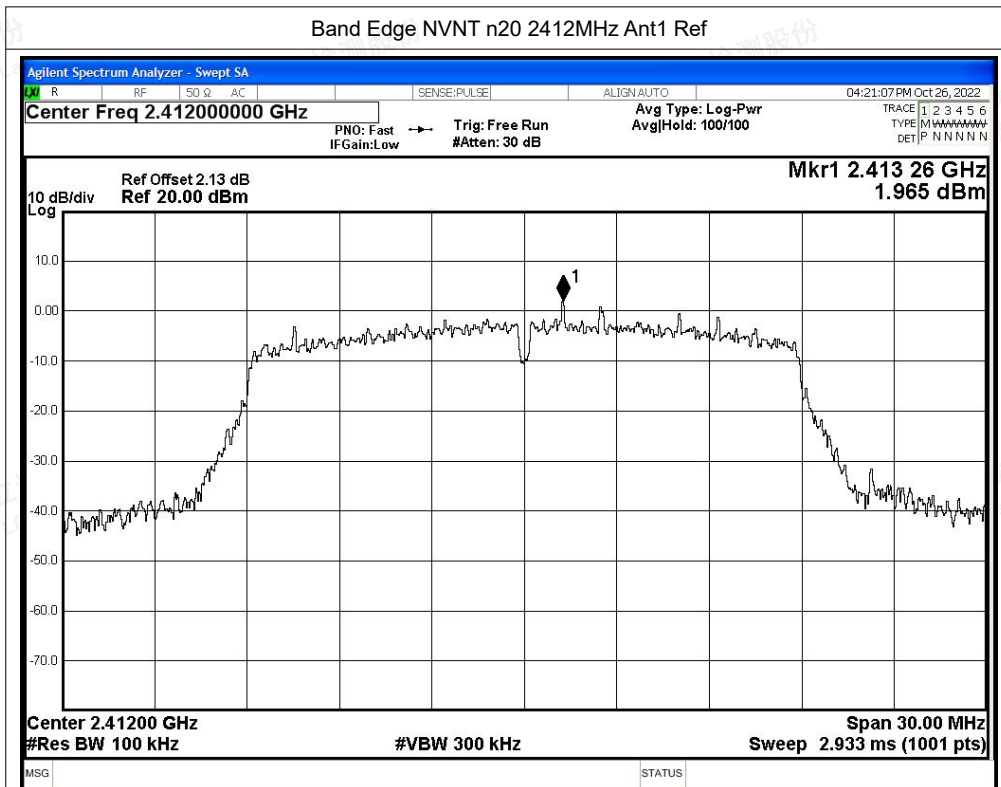


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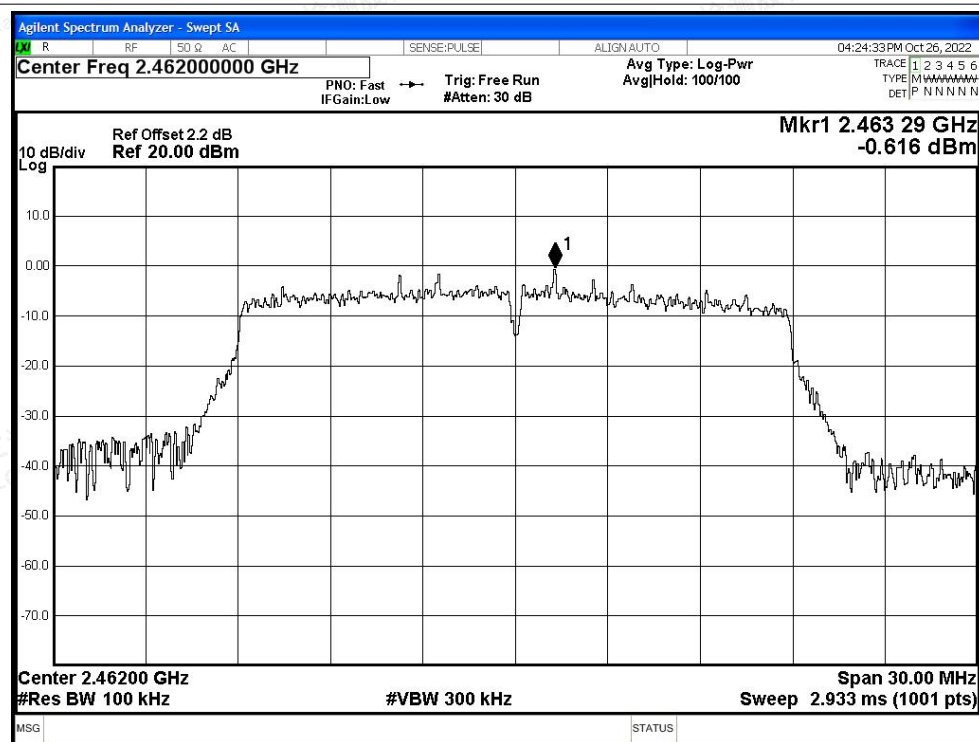
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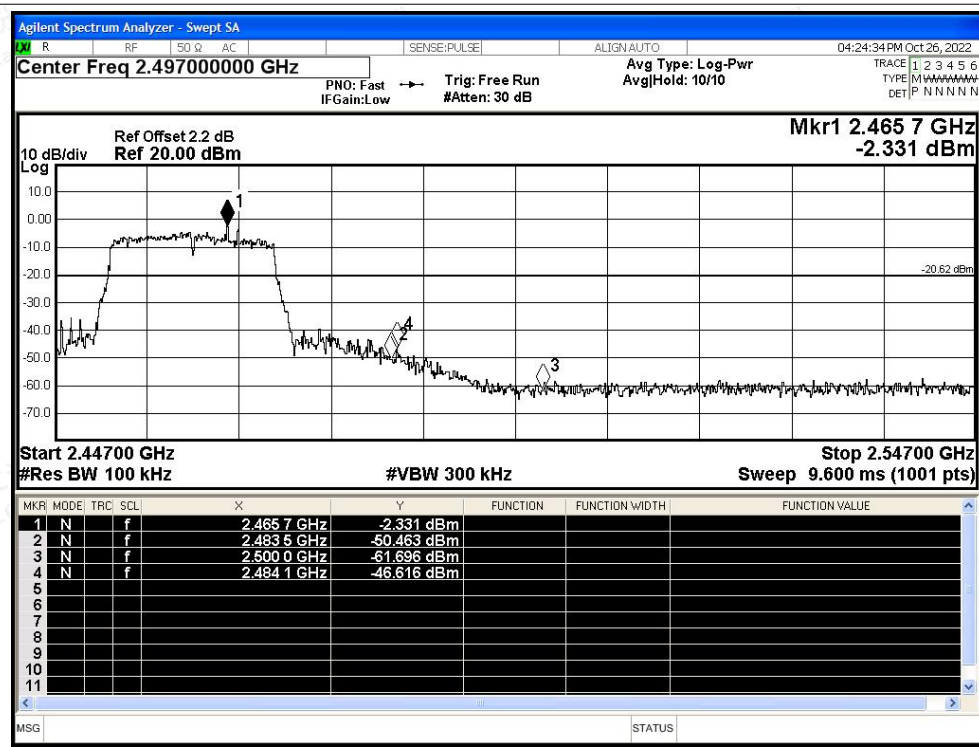
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Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 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	b	2412	Ant1	-51.73	-20	Pass
NVNT	b	2437	Ant1	-51.31	-20	Pass
NVNT	b	2462	Ant1	-51.89	-20	Pass
NVNT	g	2412	Ant1	-46.58	-20	Pass
NVNT	g	2437	Ant1	-46.5	-20	Pass
NVNT	g	2462	Ant1	-44.35	-20	Pass
NVNT	n20	2412	Ant1	-47.09	-20	Pass
NVNT	n20	2437	Ant1	-46.95	-20	Pass
NVNT	n20	2462	Ant1	-44.75	-20	Pass



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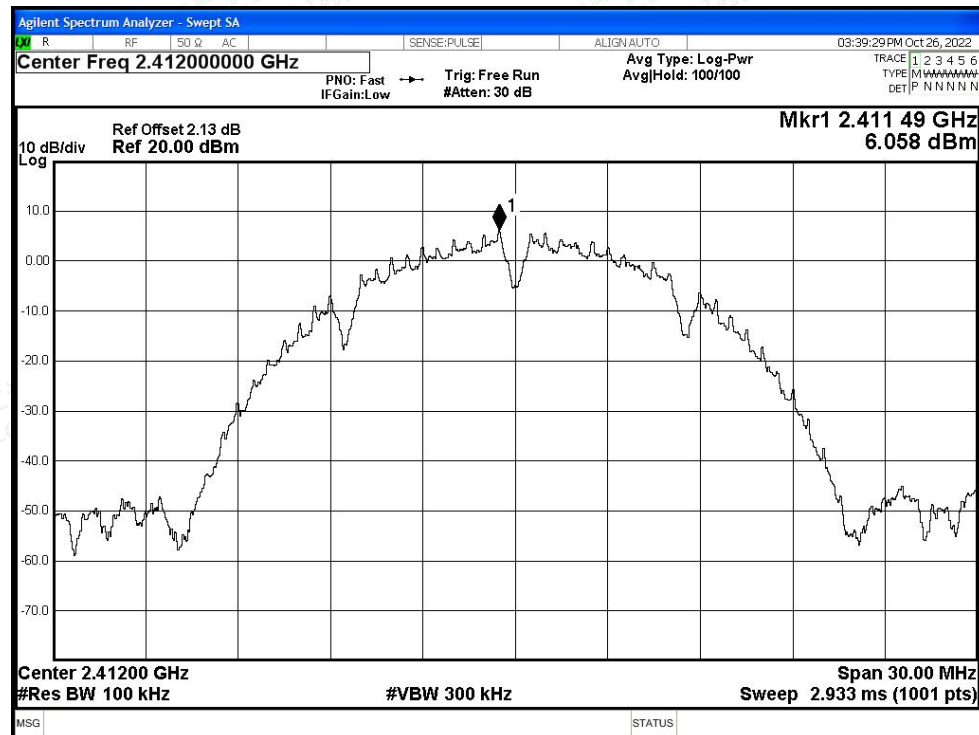
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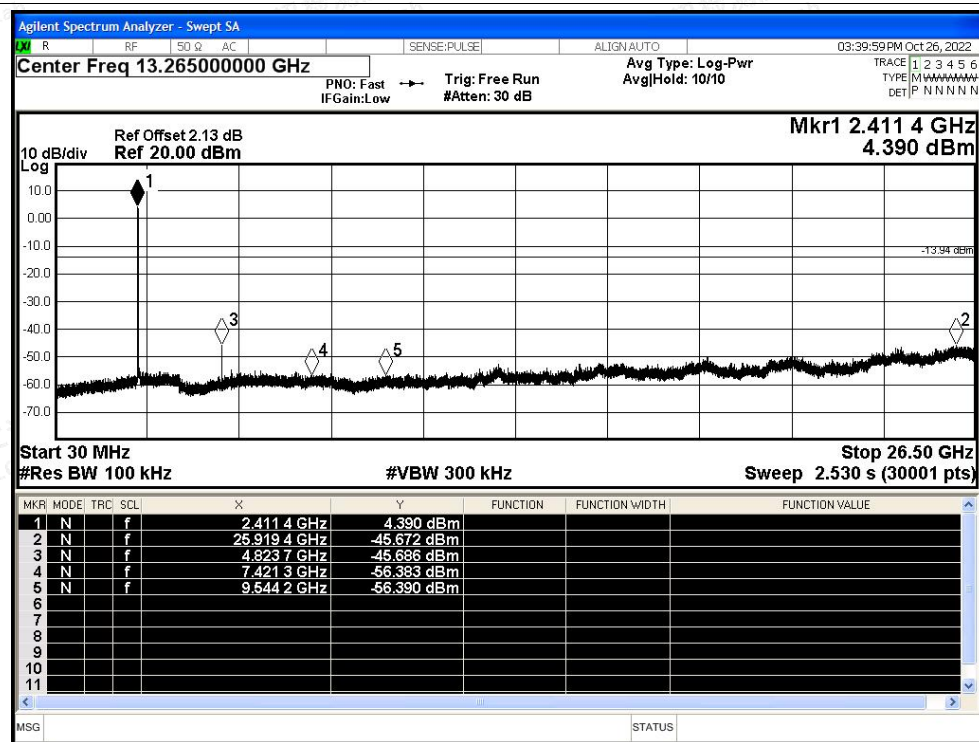


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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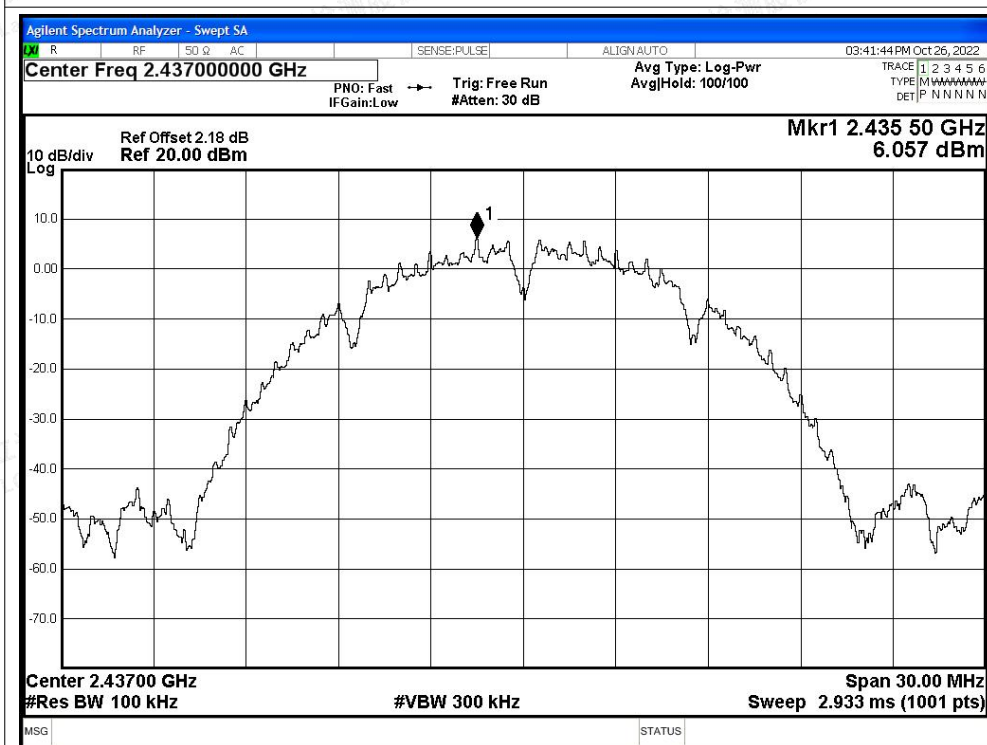
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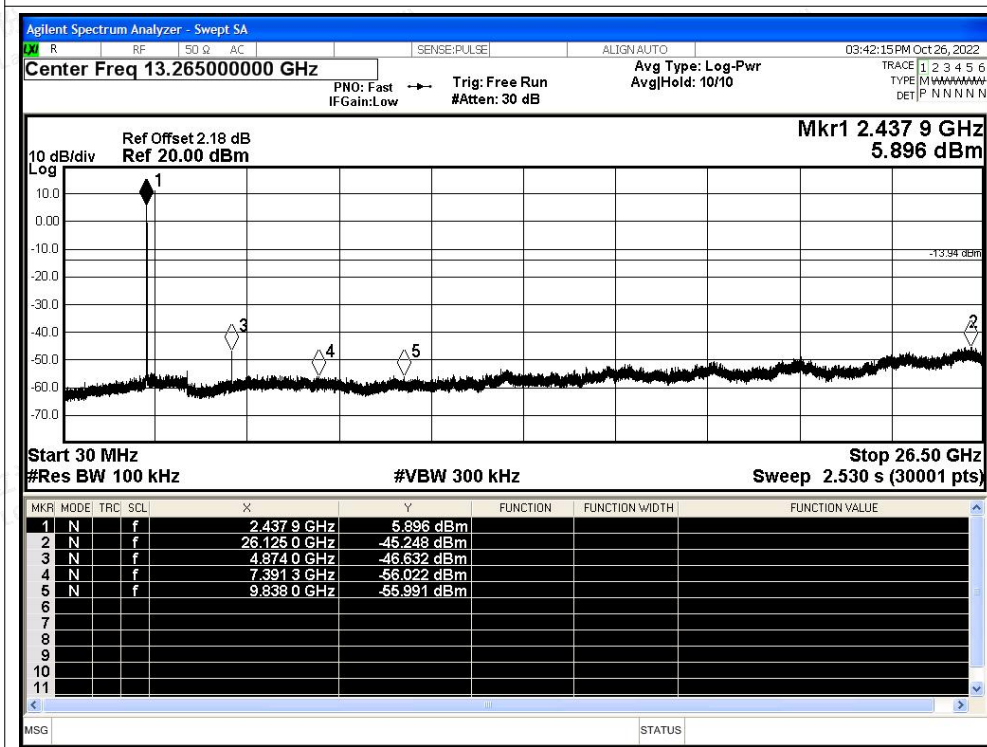
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Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



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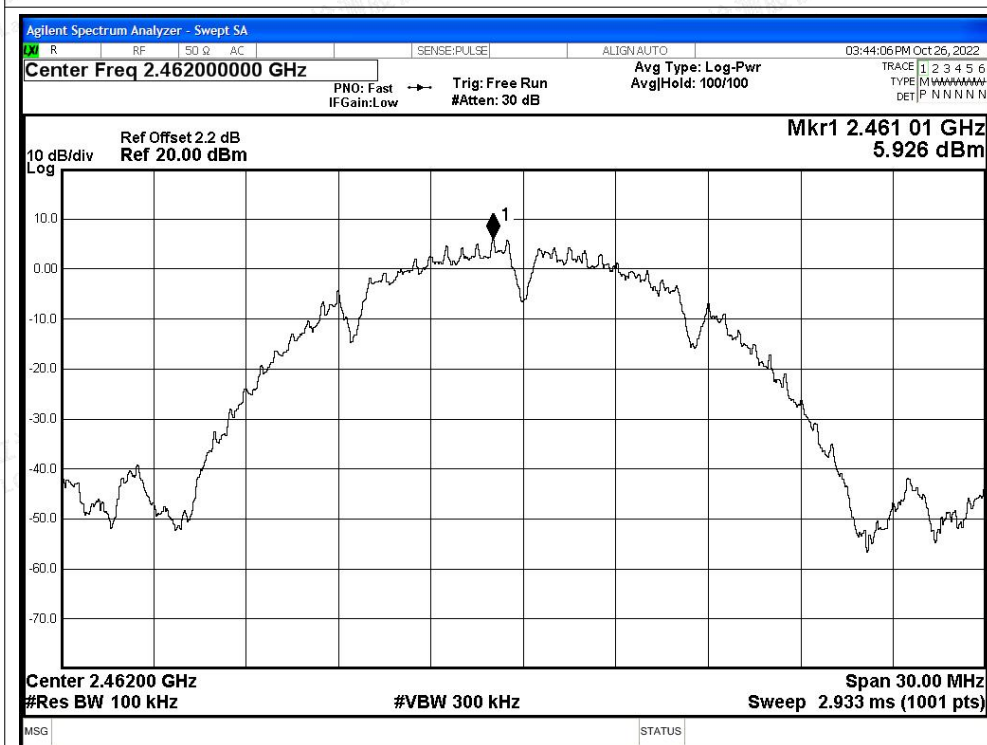
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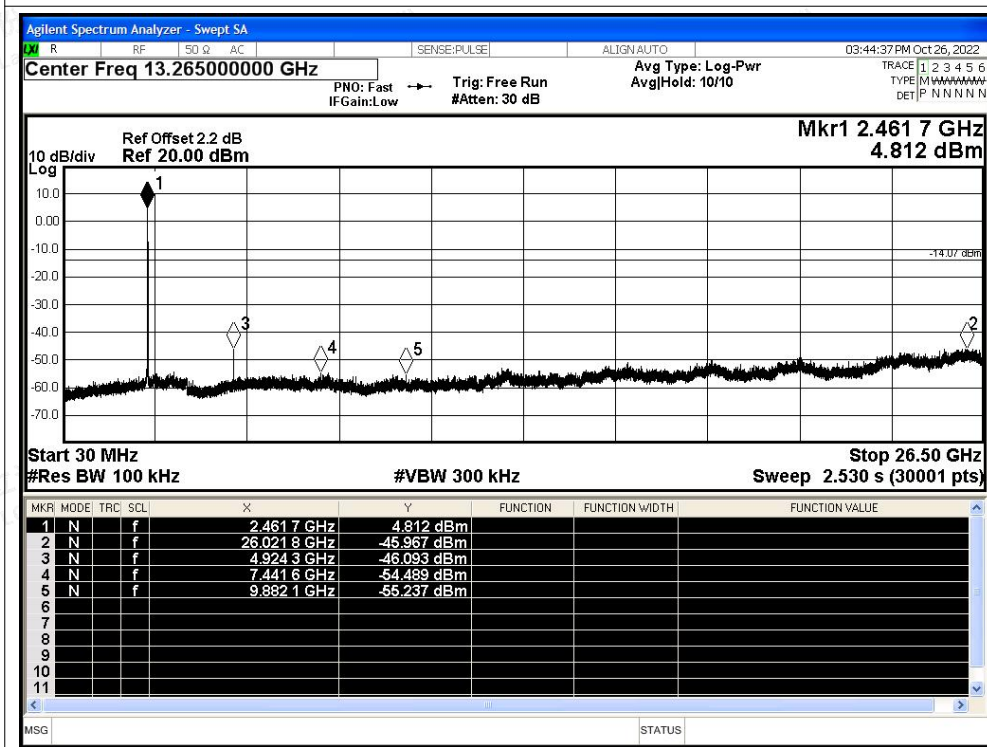
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