



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: LAVA Guitar

Test Model: LAVA ME PLAY

Environmental Conditions

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





C.1 -6dB Bandwidth

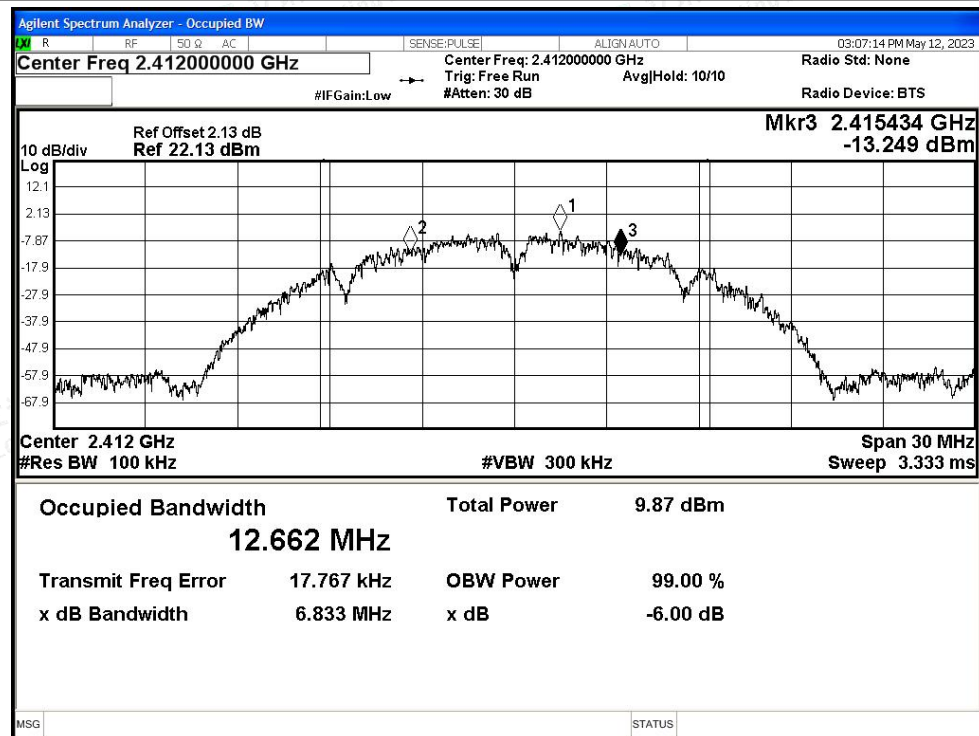
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant0	6.833	≥ 0.5	Pass
NVNT	b	2437	Ant0	7.014	≥ 0.5	Pass
NVNT	b	2462	Ant0	8.072	≥ 0.5	Pass
NVNT	g	2412	Ant0	16.333	≥ 0.5	Pass
NVNT	g	2437	Ant0	14.972	≥ 0.5	Pass
NVNT	g	2462	Ant0	16.097	≥ 0.5	Pass
NVNT	n20	2412	Ant0	15.35	≥ 0.5	Pass
NVNT	n20	2437	Ant0	17.292	≥ 0.5	Pass
NVNT	n20	2462	Ant0	16.079	≥ 0.5	Pass
NVNT	n40	2422	Ant0	35.092	≥ 0.5	Pass
NVNT	n40	2437	Ant0	34.999	≥ 0.5	Pass
NVNT	n40	2452	Ant0	35.061	≥ 0.5	Pass



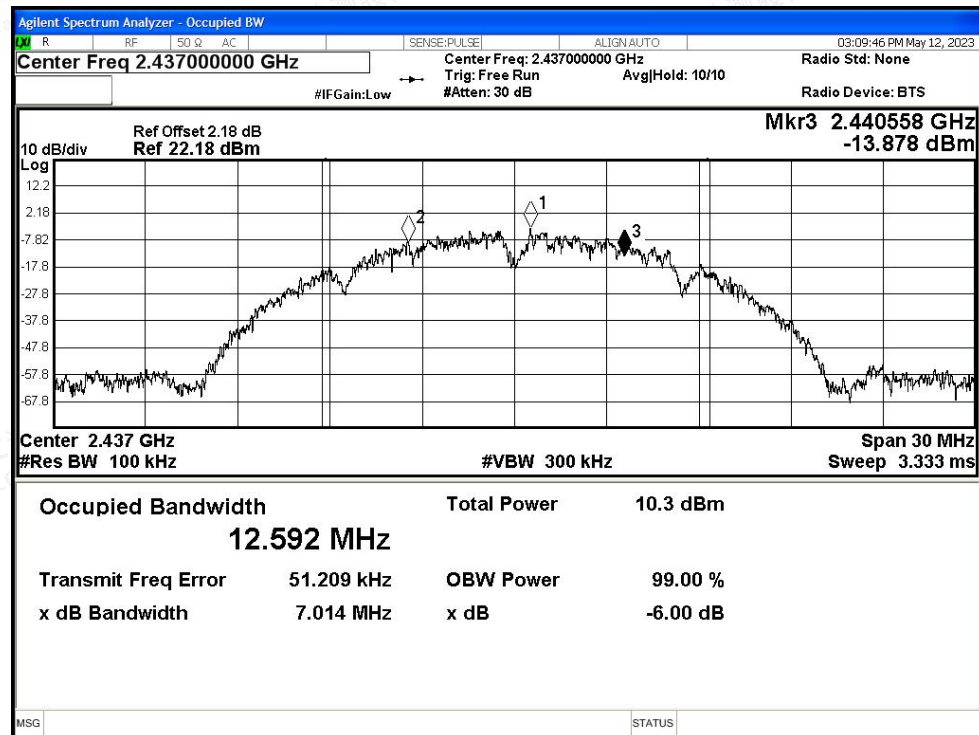


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant0



-6dB Bandwidth NVNT b 2437MHz Ant0

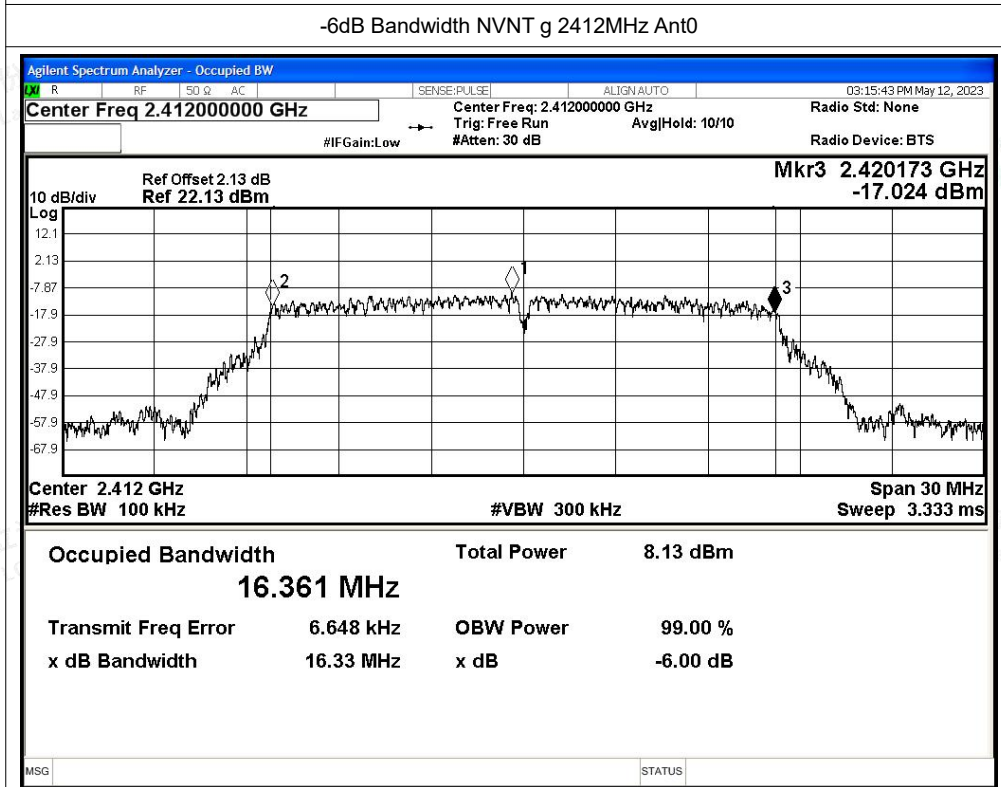
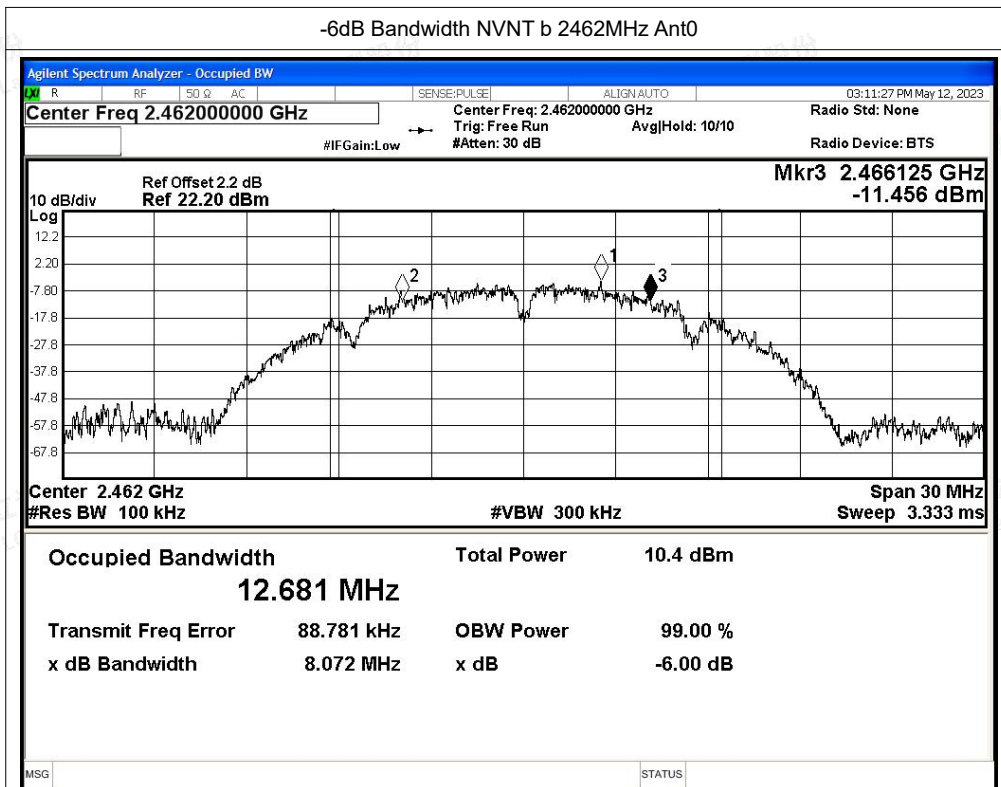


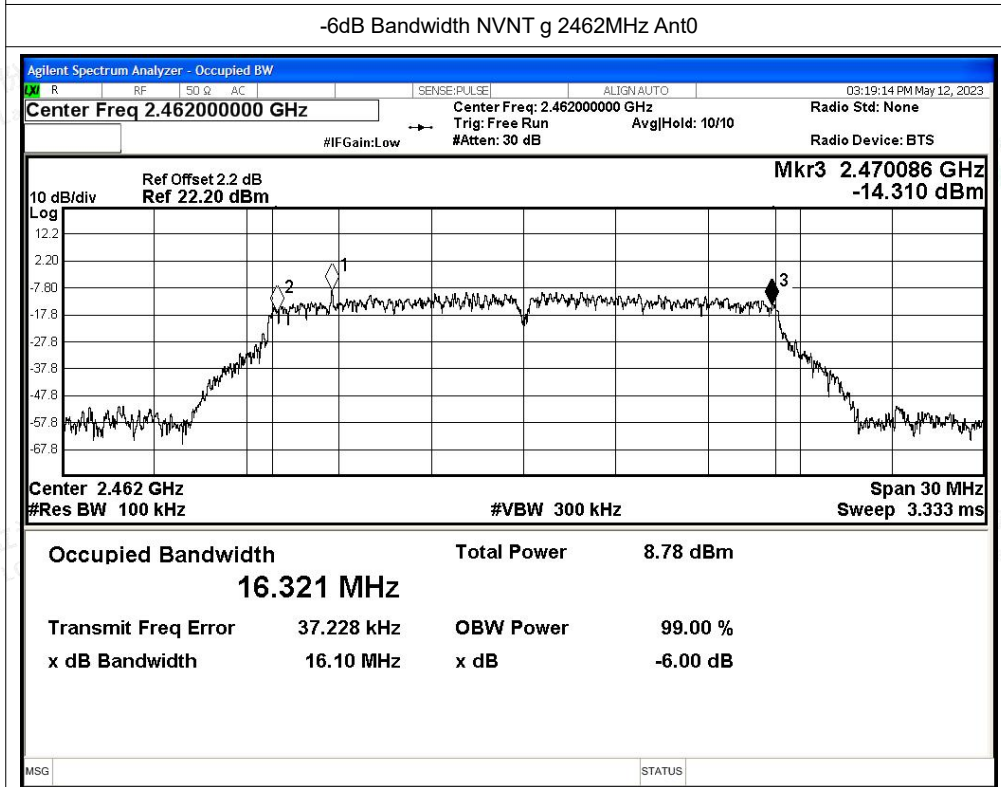
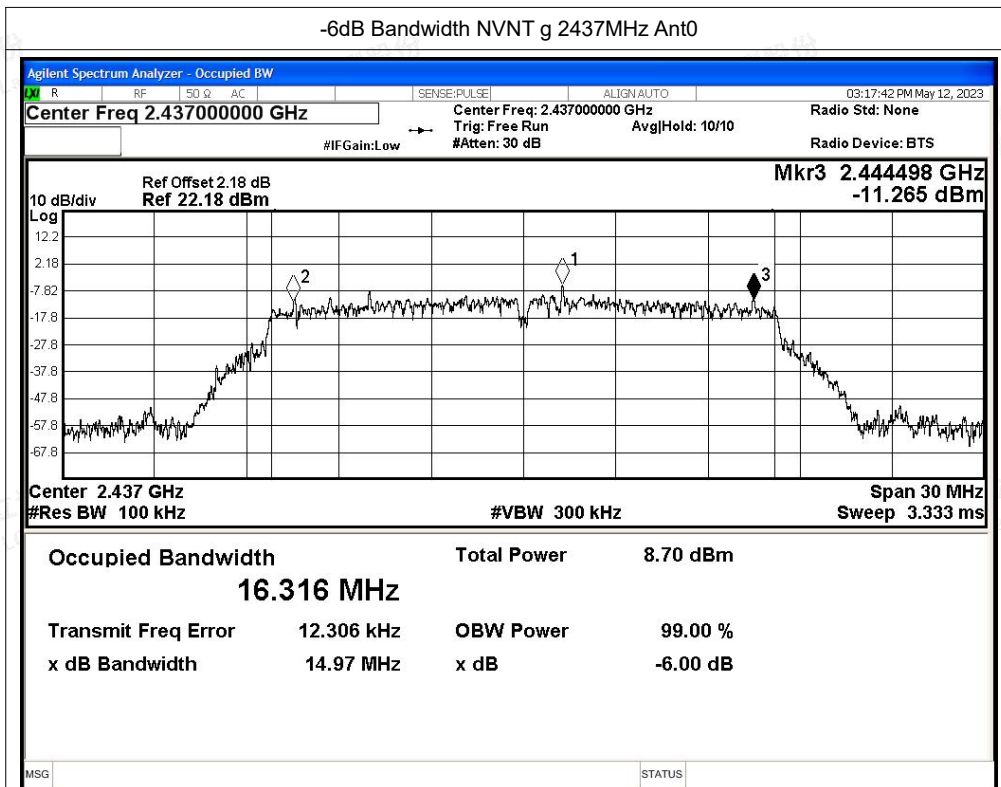
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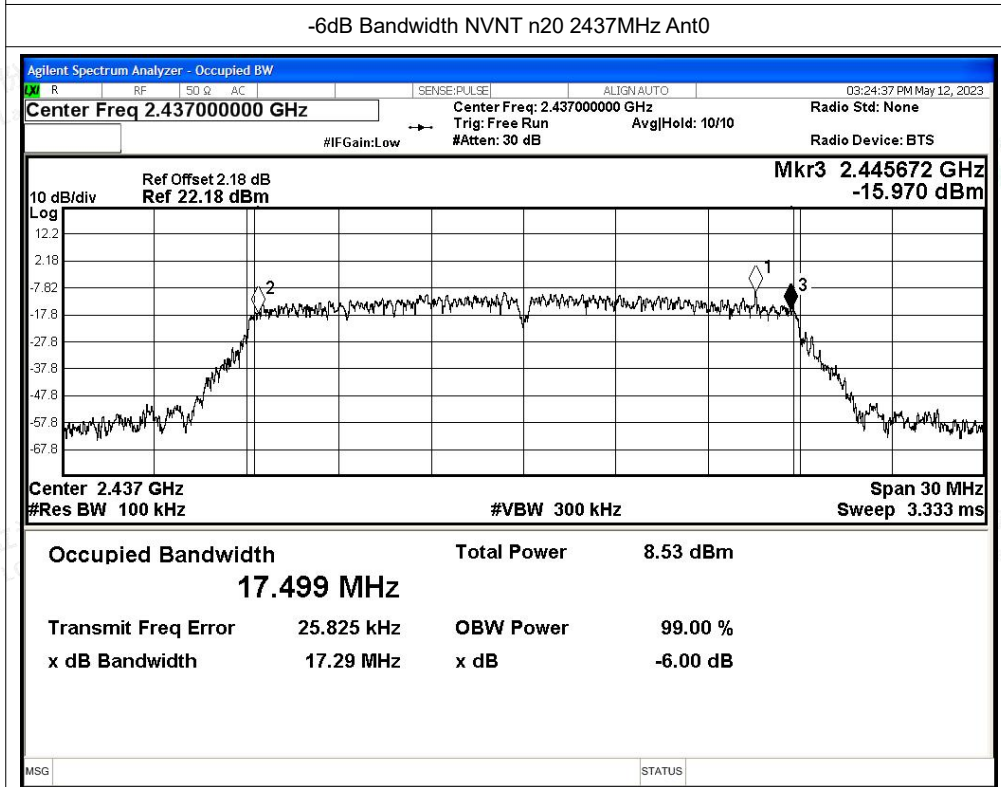
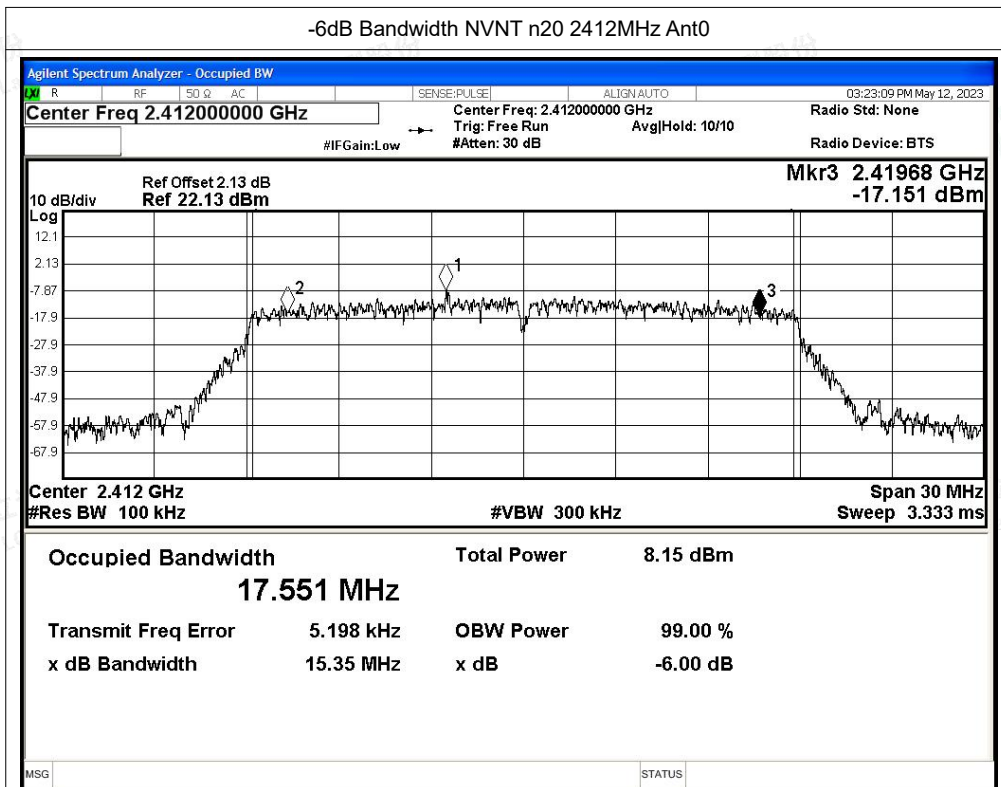


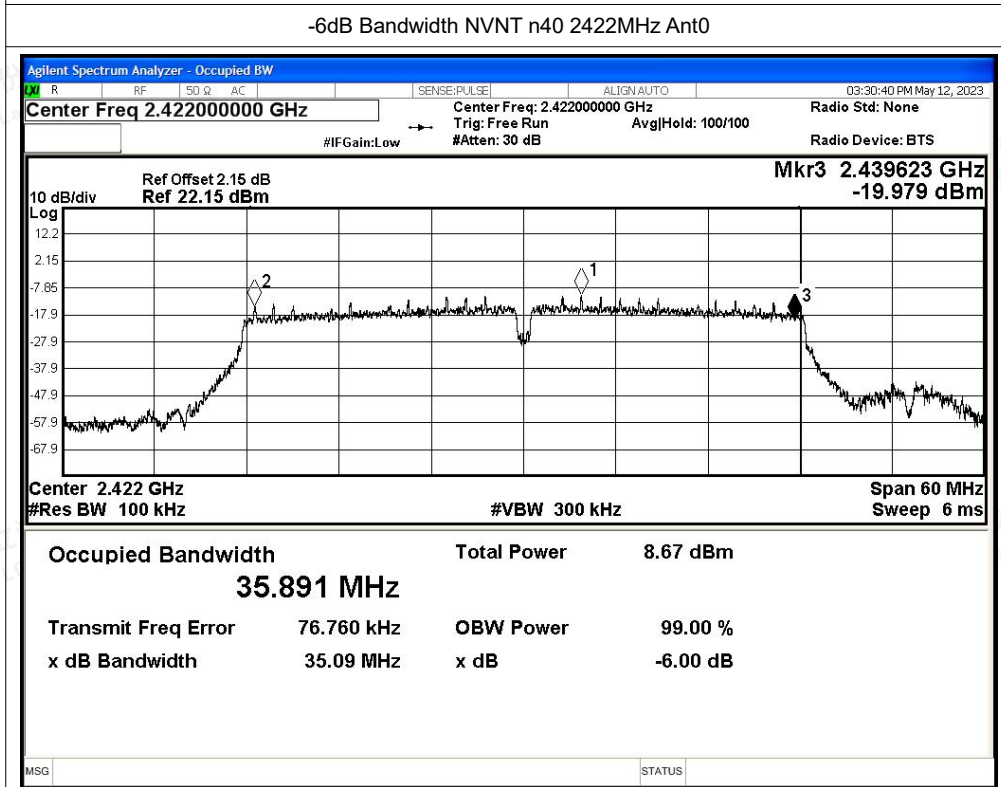
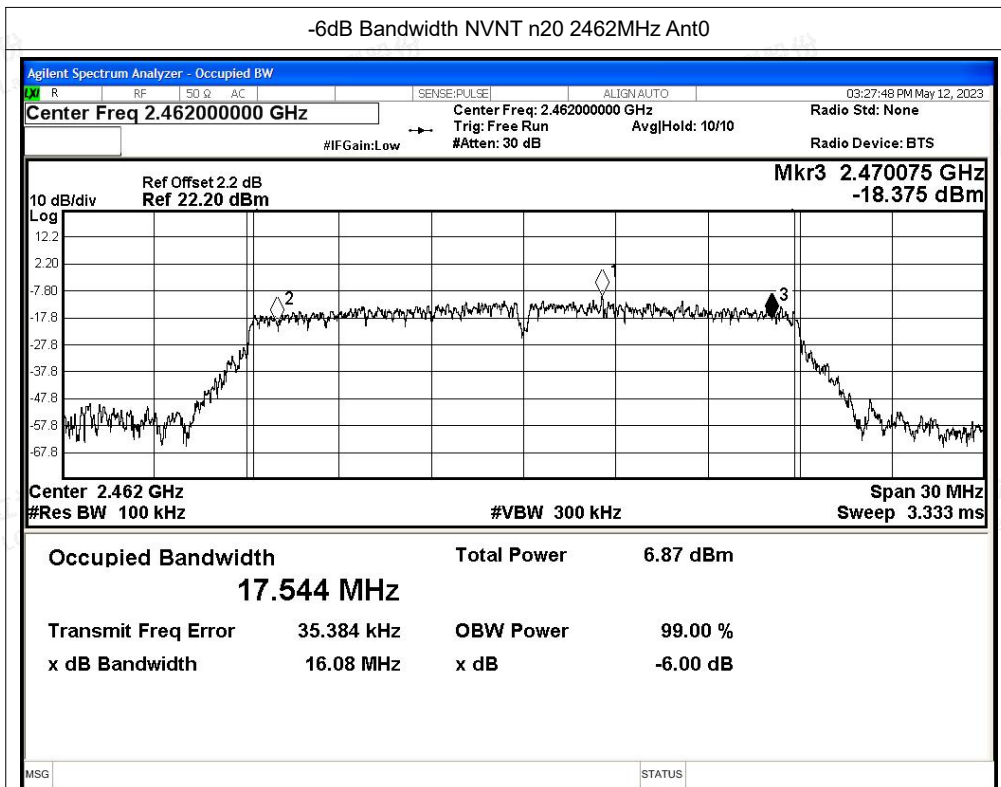
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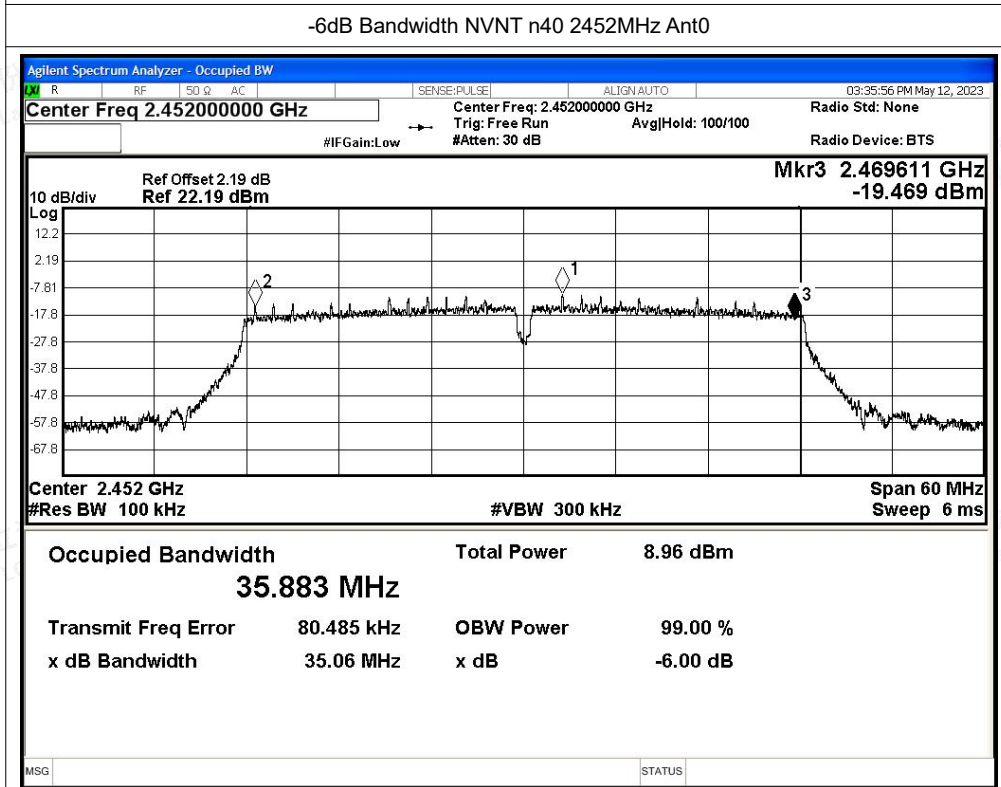
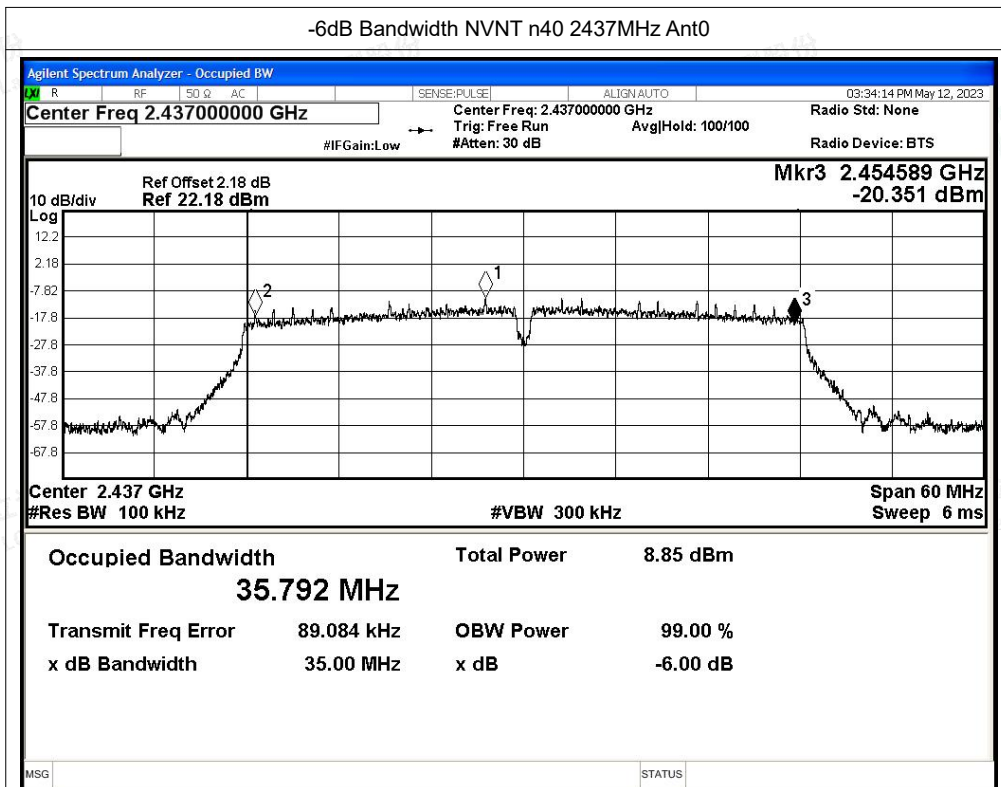


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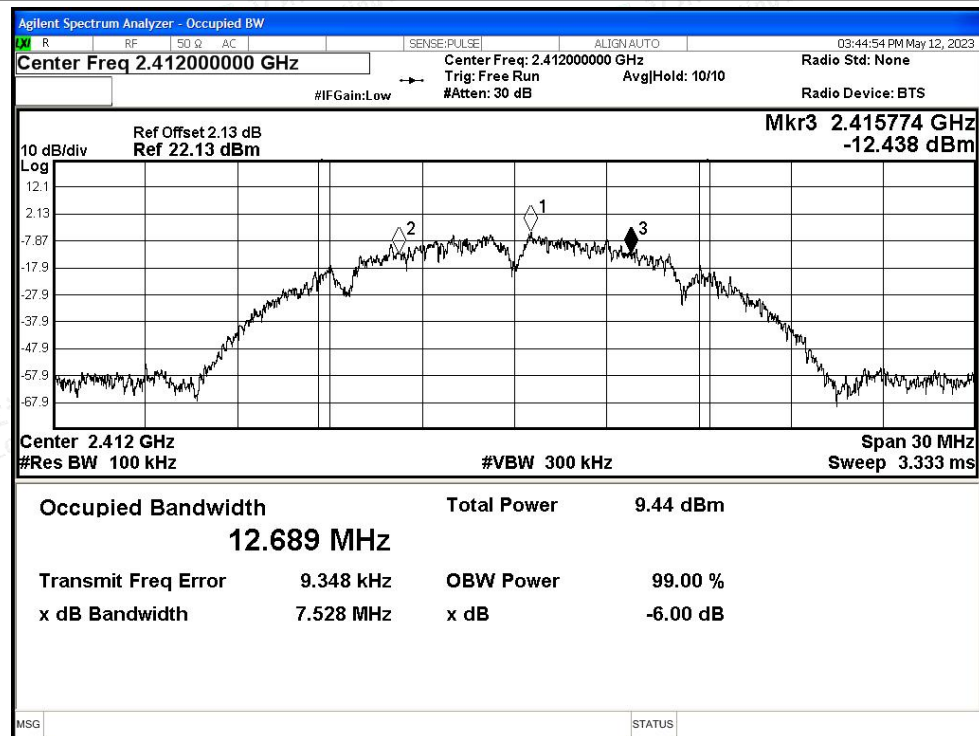
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NVNT	b	2412	Ant1	7.528	≥ 0.5	Pass
NVNT	b	2437	Ant1	7.988	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.007	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.264	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.345	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.316	≥ 0.5	Pass
NVNT	n20	2412	Ant1	16.939	≥ 0.5	Pass
NVNT	n20	2437	Ant1	16.61	≥ 0.5	Pass
NVNT	n20	2462	Ant1	17.321	≥ 0.5	Pass
NVNT	n40	2422	Ant1	35.114	≥ 0.5	Pass
NVNT	n40	2437	Ant1	33.746	≥ 0.5	Pass
NVNT	n40	2452	Ant1	35.29	≥ 0.5	Pass



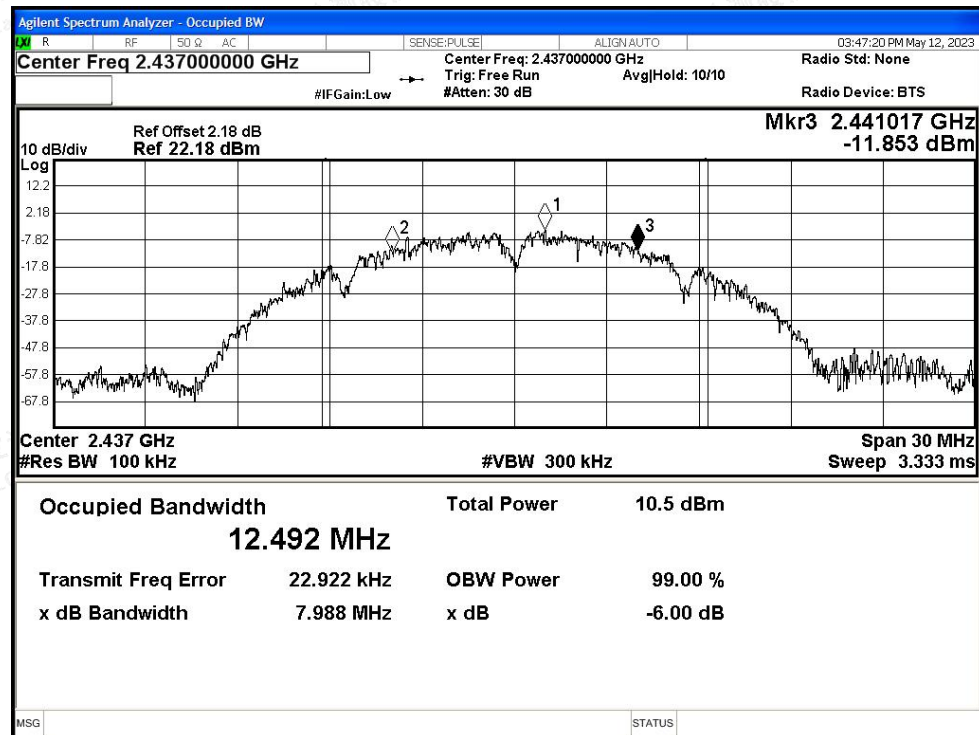


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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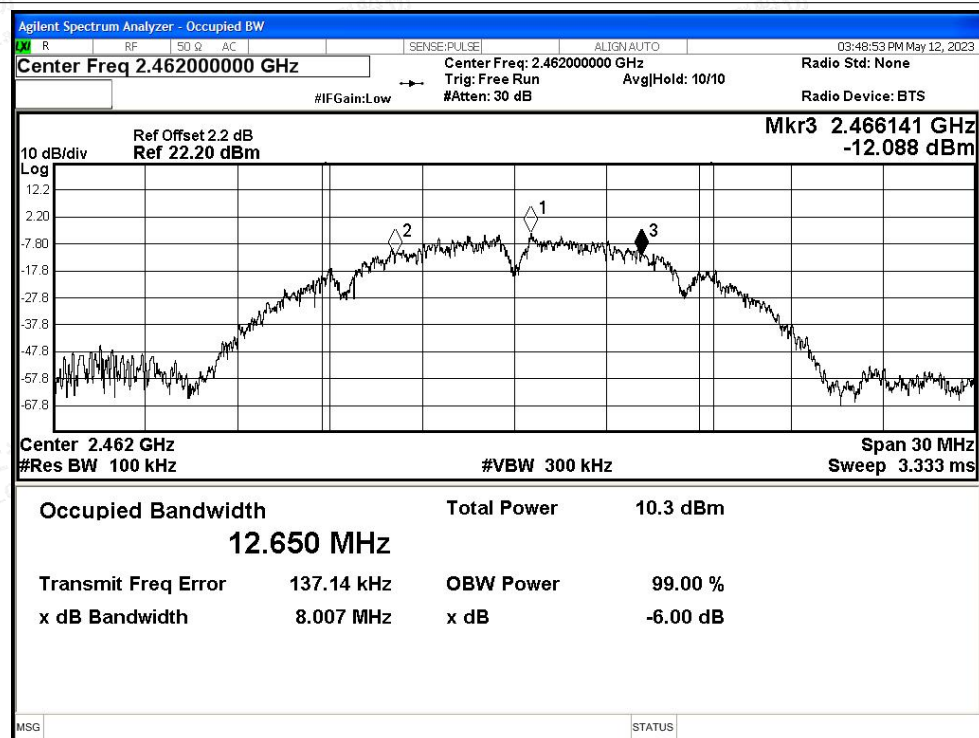
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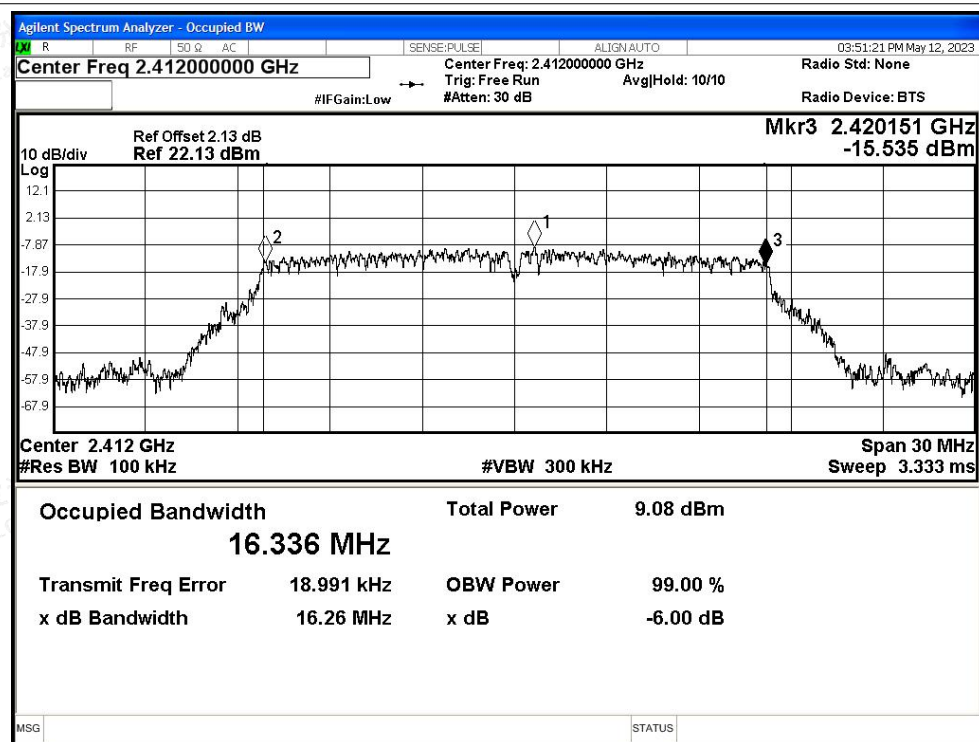
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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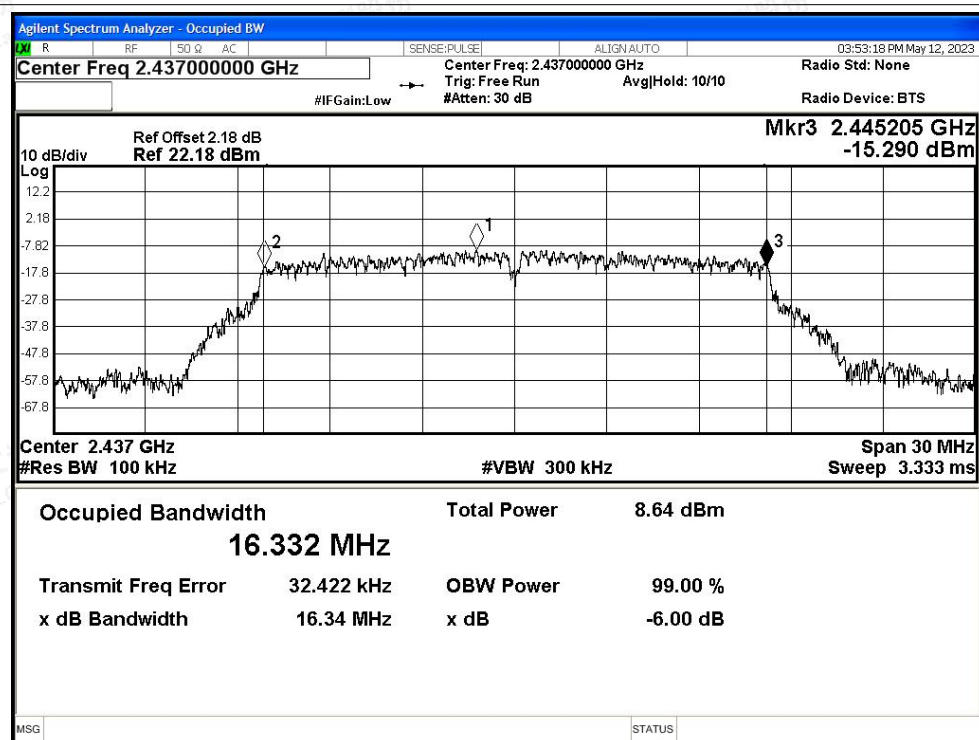
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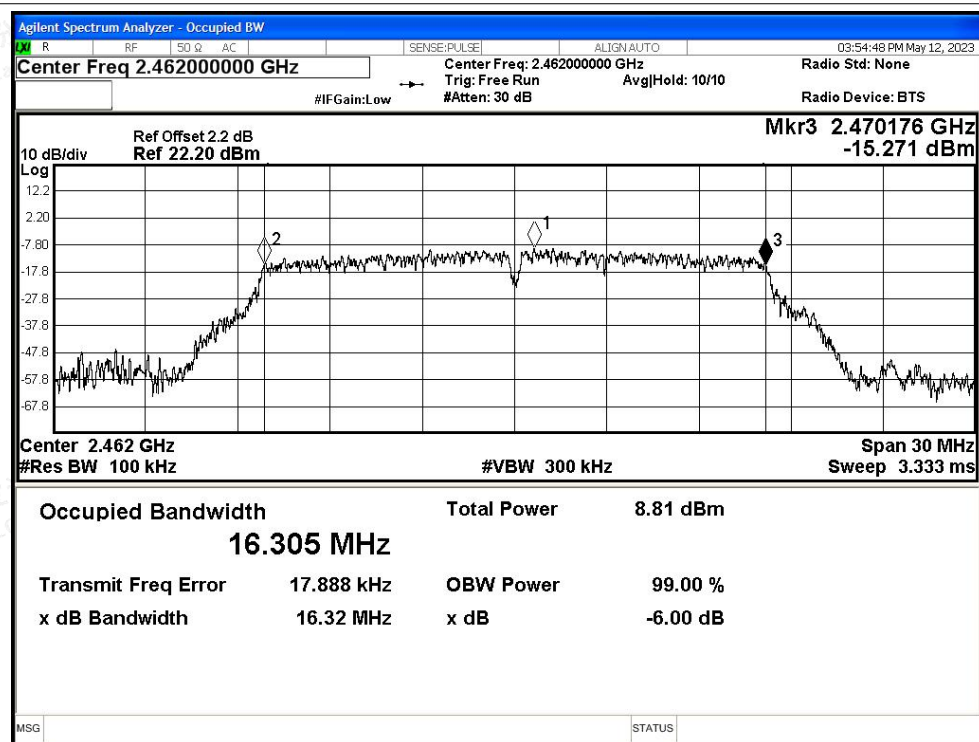
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1

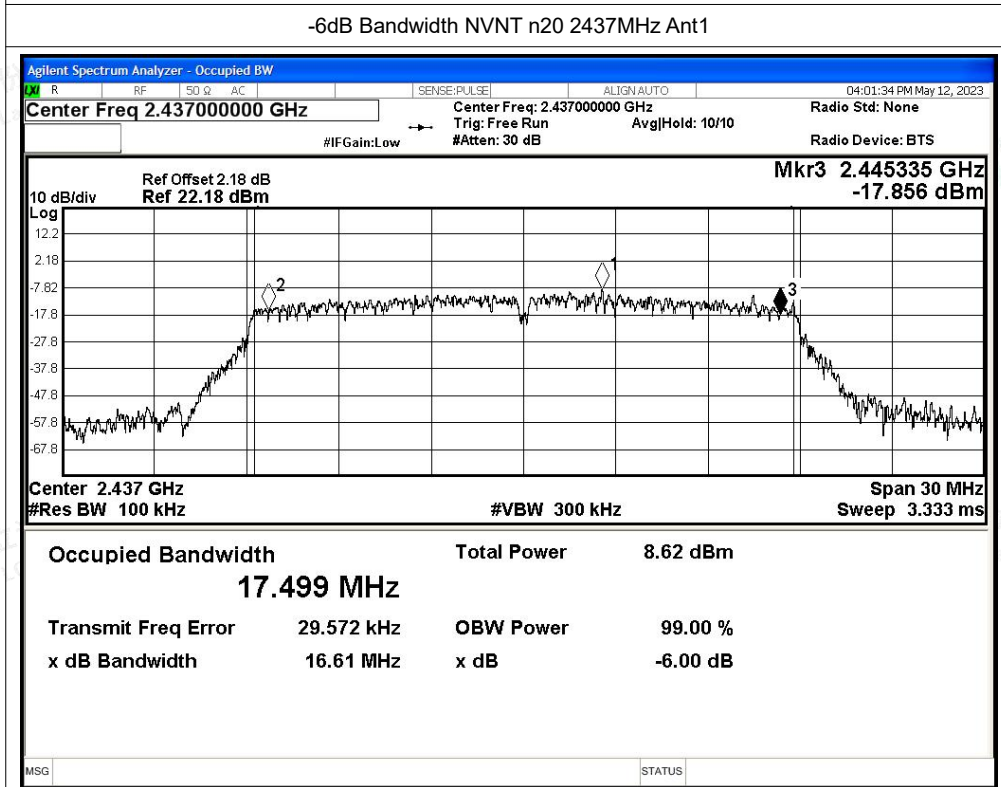
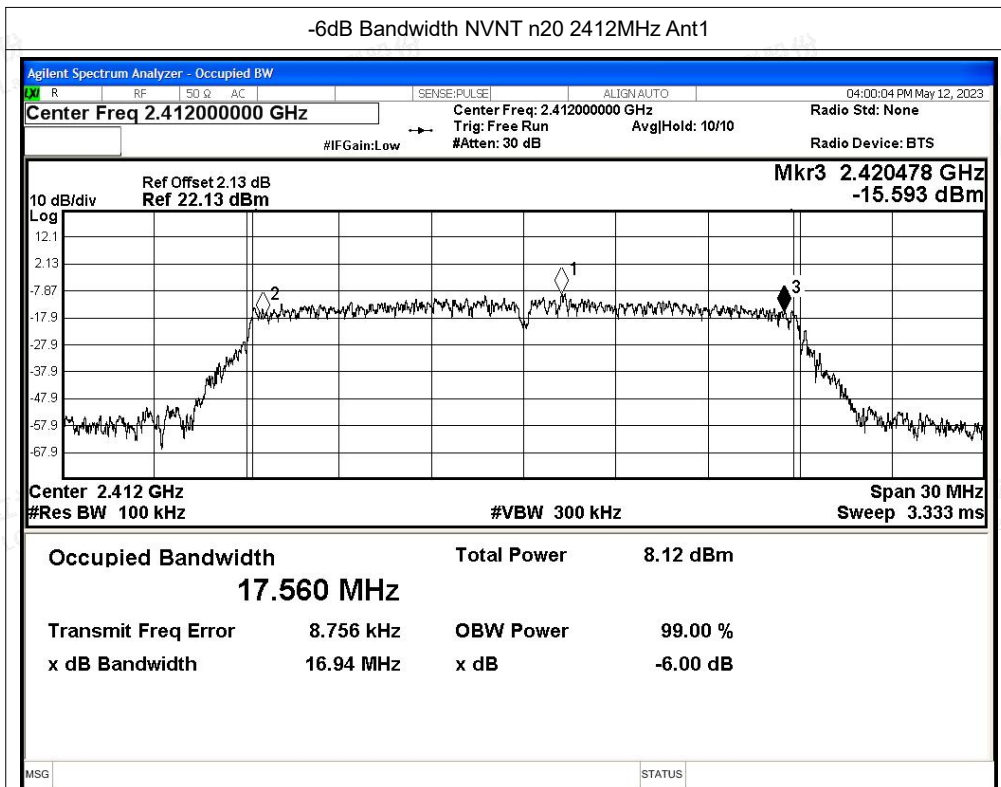


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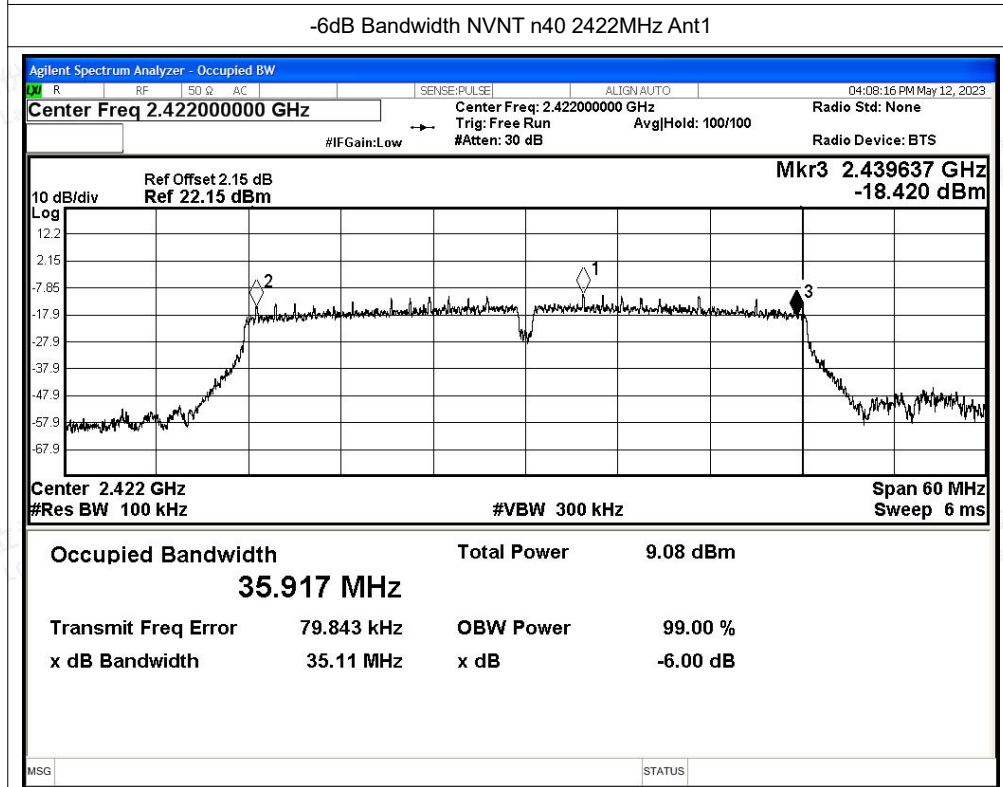
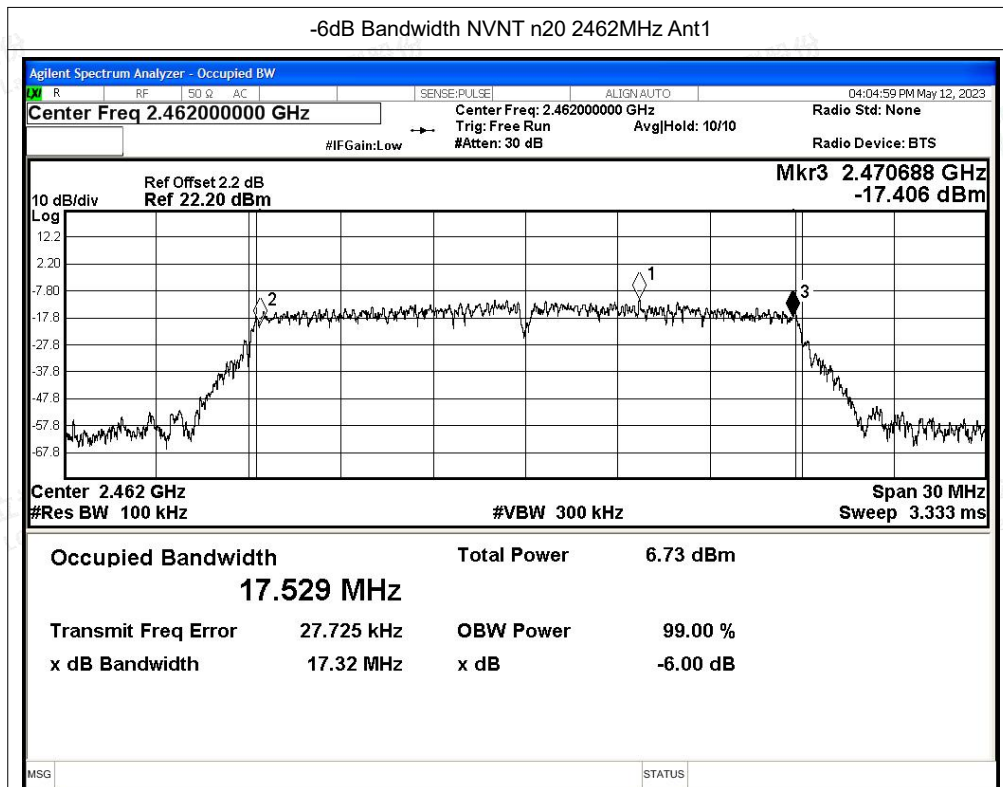


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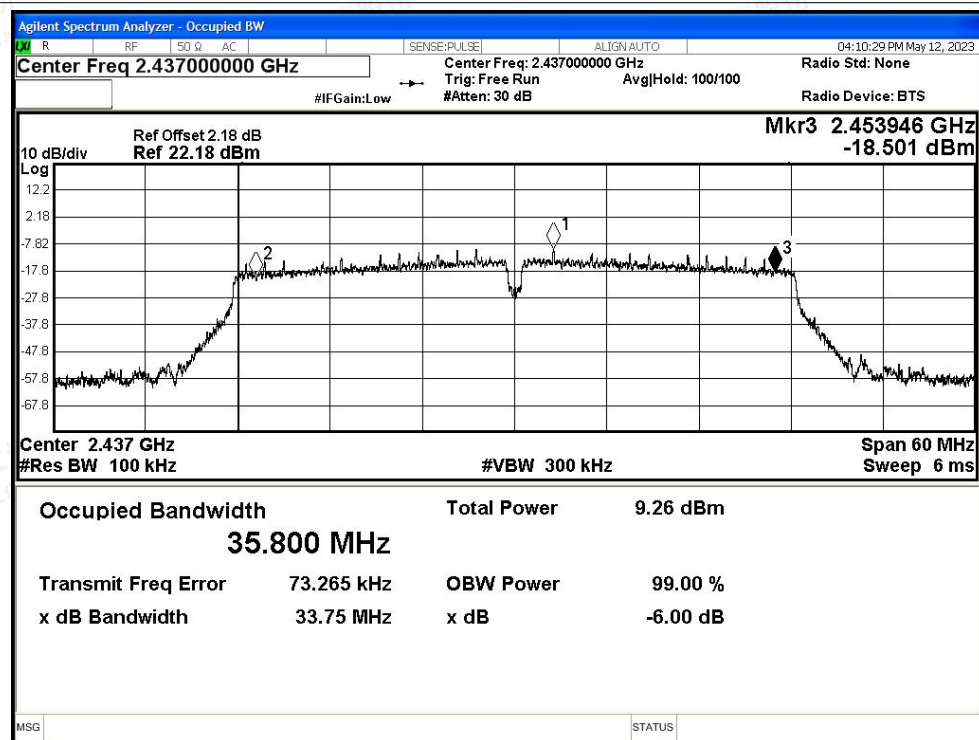
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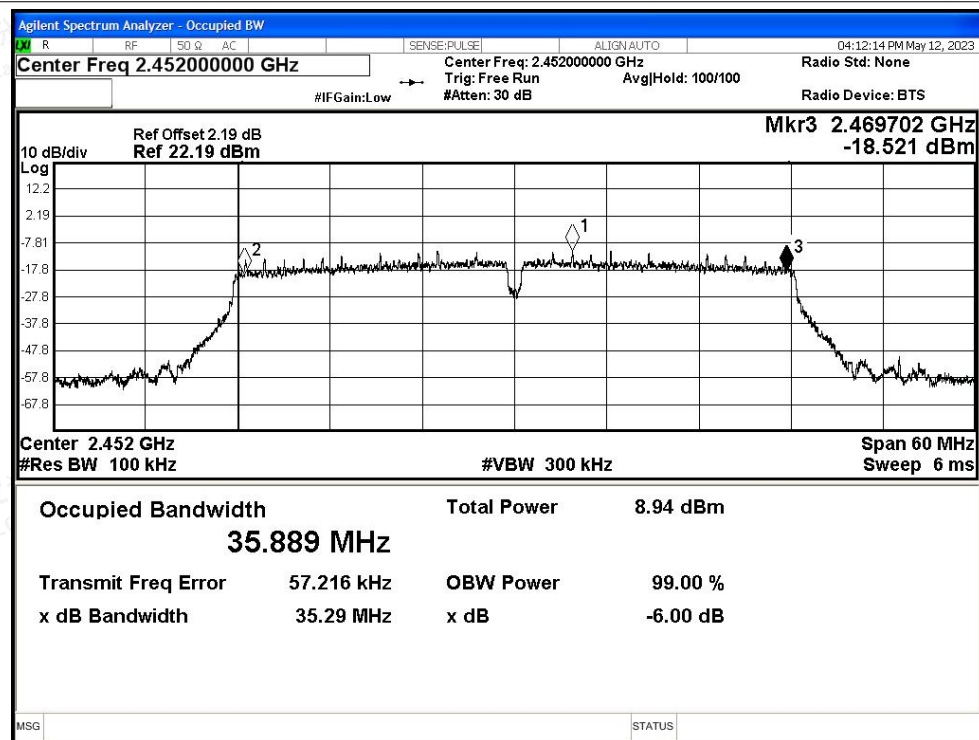
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant0	6.31	30	Pass
NVNT	b	2437	Ant0	6.9	30	Pass
NVNT	b	2462	Ant0	6.84	30	Pass
NVNT	g	2412	Ant0	6.93	30	Pass
NVNT	g	2437	Ant0	7.2	30	Pass
NVNT	g	2462	Ant0	7.56	30	Pass
NVNT	n20	2412	Ant0	4.85	30	Pass
NVNT	n20	2437	Ant0	5.29	30	Pass
NVNT	n20	2462	Ant0	5.1	30	Pass
NVNT	n40	2422	Ant0	5.01	30	Pass
NVNT	n40	2437	Ant0	5.35	30	Pass
NVNT	n40	2452	Ant0	5.47	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	6.2	30	Pass
NVNT	b	2437	Ant1	6.61	30	Pass
NVNT	b	2462	Ant1	6.97	30	Pass
NVNT	g	2412	Ant1	7.87	30	Pass
NVNT	g	2437	Ant1	7.39	30	Pass
NVNT	g	2462	Ant1	7.45	30	Pass
NVNT	n20	2412	Ant1	4.85	30	Pass
NVNT	n20	2437	Ant1	5.33	30	Pass
NVNT	n20	2462	Ant1	5.18	30	Pass
NVNT	n40	2422	Ant1	5.46	30	Pass
NVNT	n40	2437	Ant1	5.74	30	Pass
NVNT	n40	2452	Ant1	5.43	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	4.85	4.85	7.86	30	Pass
NVNT	n20	2437	5.29	5.33	8.32	30	Pass
NVNT	n20	2462	5.1	5.18	8.15	30	Pass
NVNT	n40	2422	5.01	5.46	8.25	30	Pass
NVNT	n40	2437	5.35	5.74	8.56	30	Pass
NVNT	n40	2452	5.47	5.43	8.46	30	Pass





C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant0	-17.63	8	Pass
NVNT	b	2437	Ant0	-17.04	8	Pass
NVNT	b	2462	Ant0	-17.15	8	Pass
NVNT	g	2412	Ant0	-20.43	8	Pass
NVNT	g	2437	Ant0	-20.05	8	Pass
NVNT	g	2462	Ant0	-19.25	8	Pass
NVNT	n20	2412	Ant0	-21.4	8	Pass
NVNT	n20	2437	Ant0	-18.91	8	Pass
NVNT	n20	2462	Ant0	-21.78	8	Pass
NVNT	n40	2422	Ant0	-24.29	8	Pass
NVNT	n40	2437	Ant0	-24.65	8	Pass
NVNT	n40	2452	Ant0	-24.85	8	Pass

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-17.97	8	Pass
NVNT	b	2437	Ant1	-16.96	8	Pass
NVNT	b	2462	Ant1	-16.24	8	Pass
NVNT	g	2412	Ant1	-18.67	8	Pass
NVNT	g	2437	Ant1	-20.74	8	Pass
NVNT	g	2462	Ant1	-19.08	8	Pass
NVNT	n20	2412	Ant1	-21.1	8	Pass
NVNT	n20	2437	Ant1	-18.93	8	Pass
NVNT	n20	2462	Ant1	-22.1	8	Pass
NVNT	n40	2422	Ant1	-24.75	8	Pass
NVNT	n40	2437	Ant1	-24.24	8	Pass
NVNT	n40	2452	Ant1	-24.34	8	Pass

MIMO

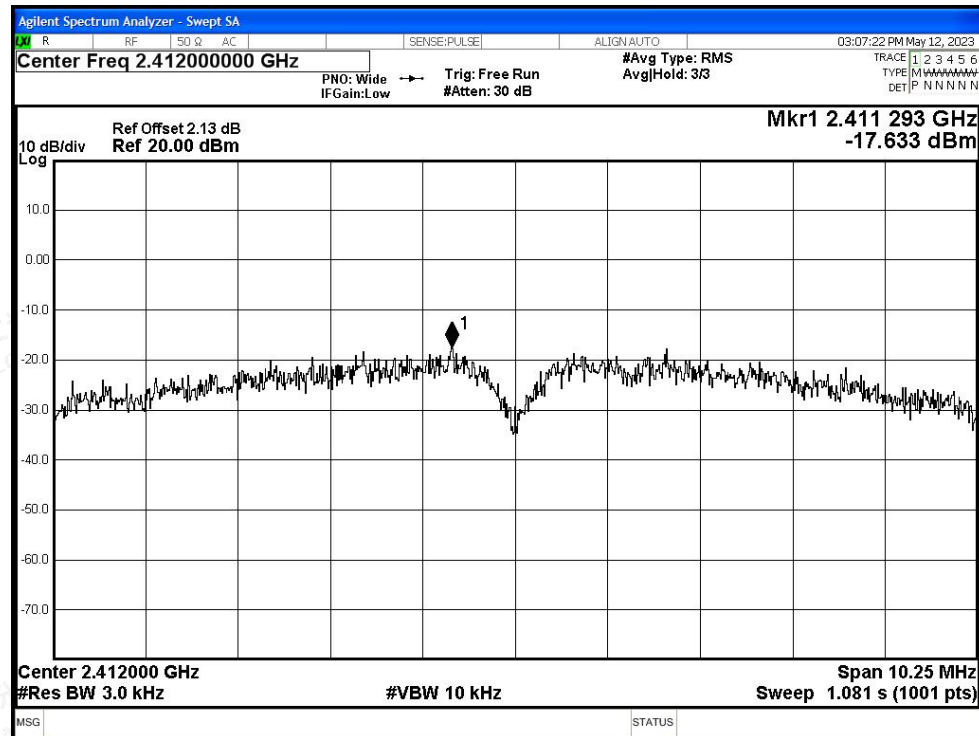
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			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	-21.4	-21.1	-18.24	7.09	Pass
NVNT	n20	2437	-18.91	-18.93	-15.91	7.09	Pass
NVNT	n20	2462	-21.78	-22.1	-18.93	7.09	Pass
NVNT	n40	2422	-24.29	-24.75	-21.50	7.09	Pass
NVNT	n40	2437	-24.65	-24.24	-21.43	7.09	Pass
NVNT	n40	2452	-24.85	-24.34	-21.58	7.09	Pass



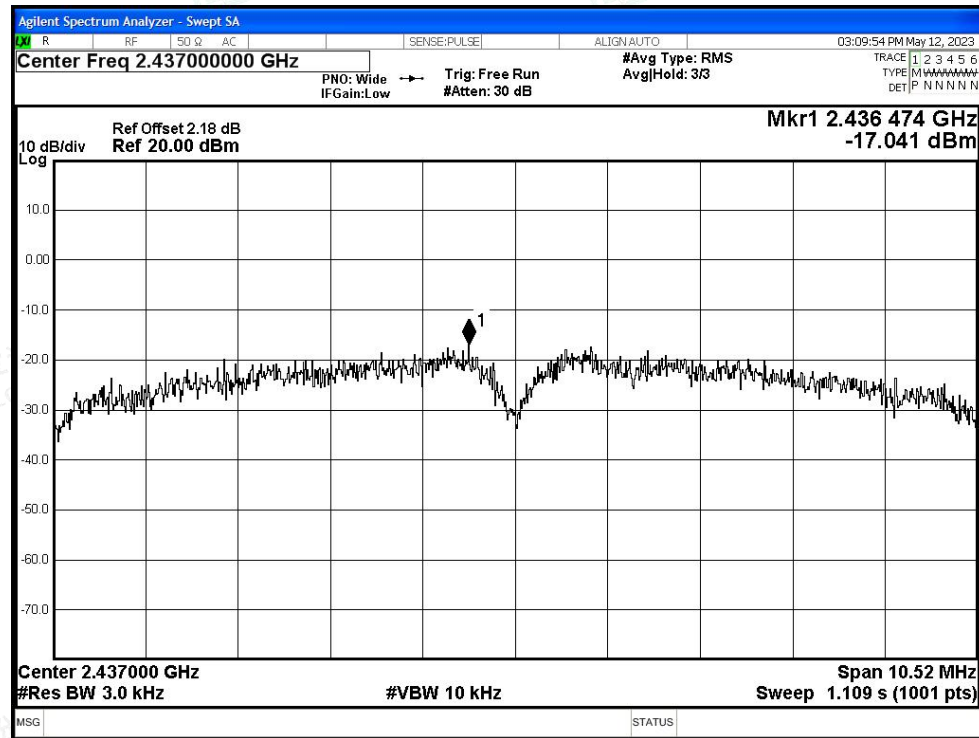


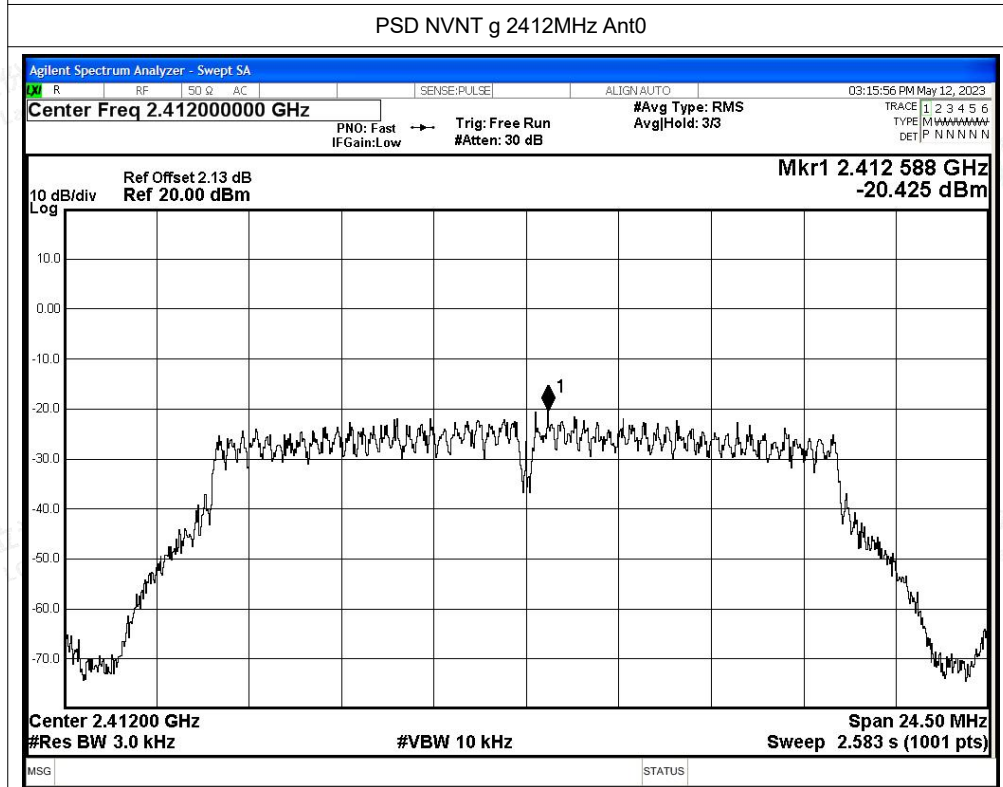
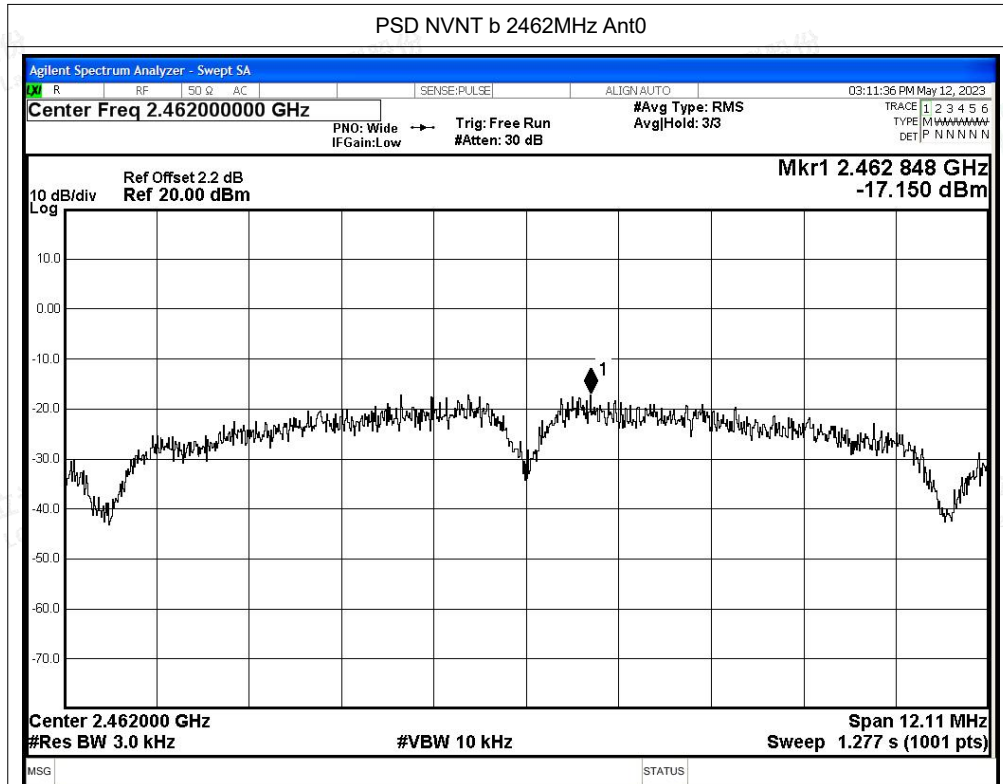
Test Graphs

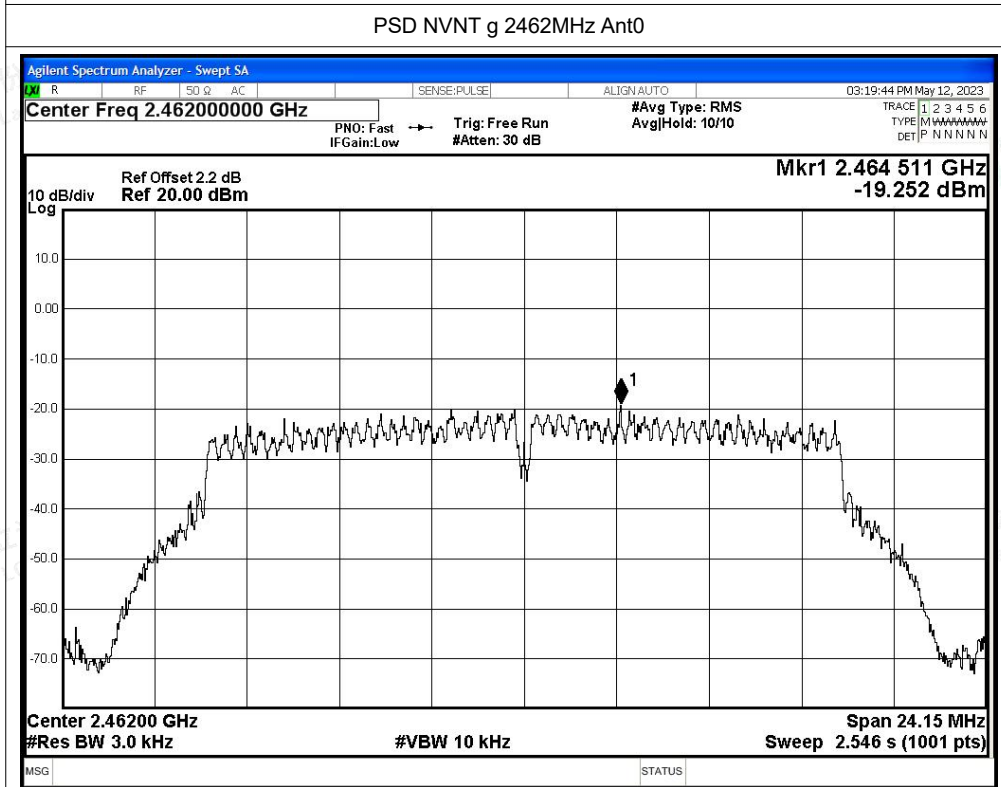
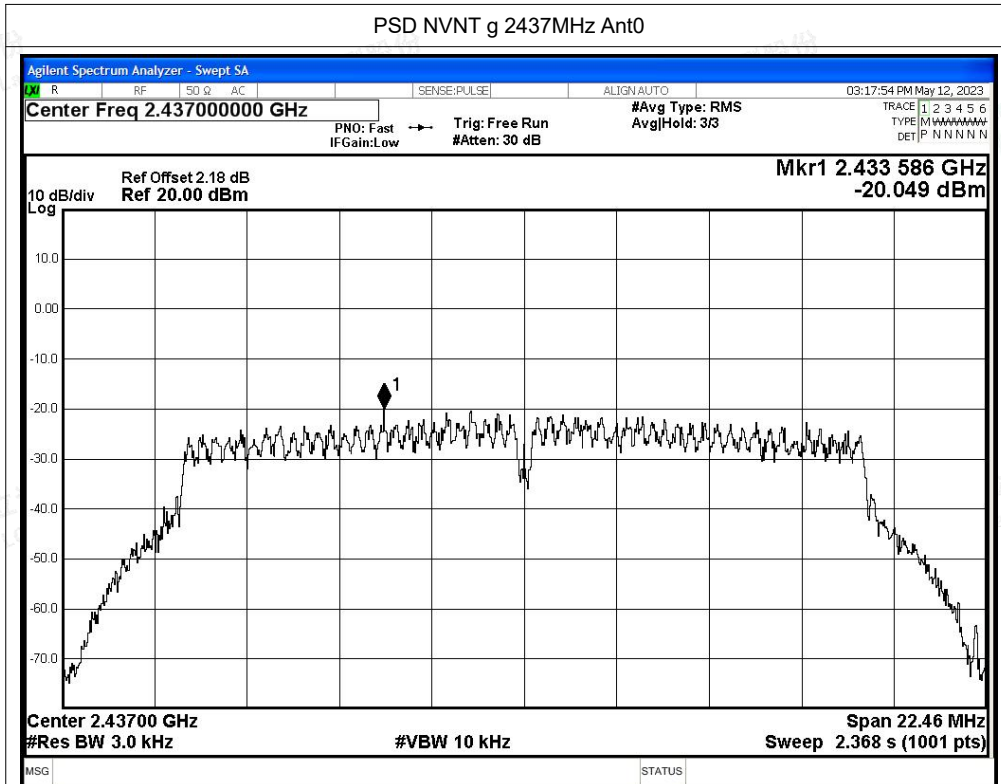
PSD NVNT b 2412MHz Ant0

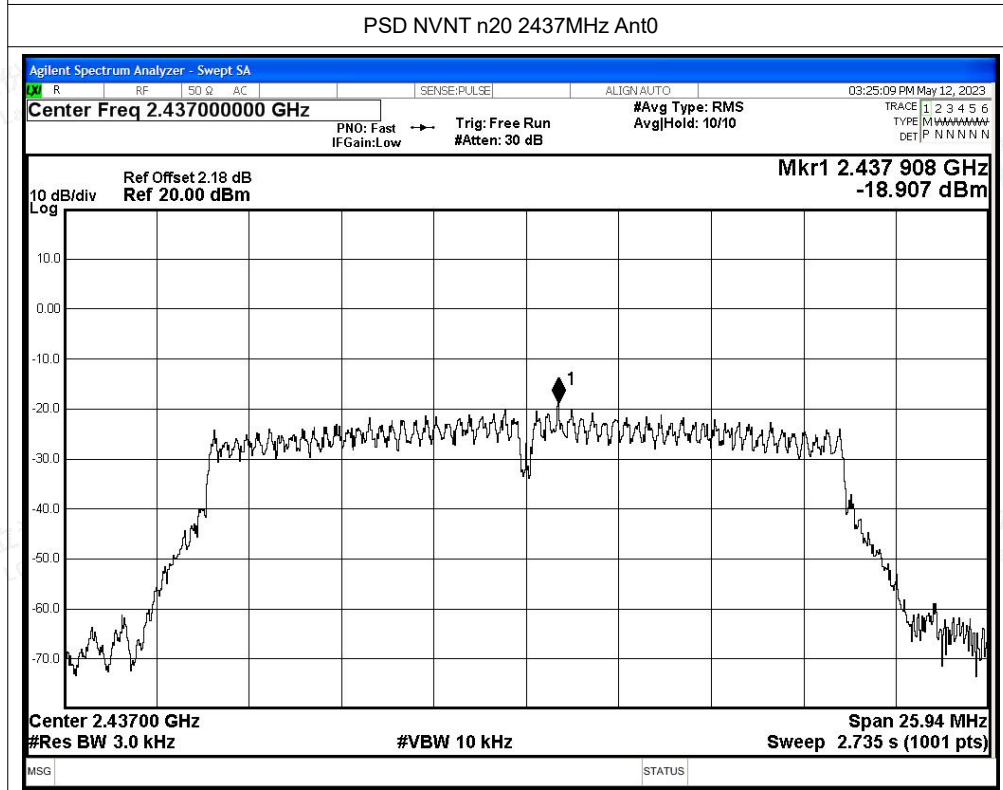
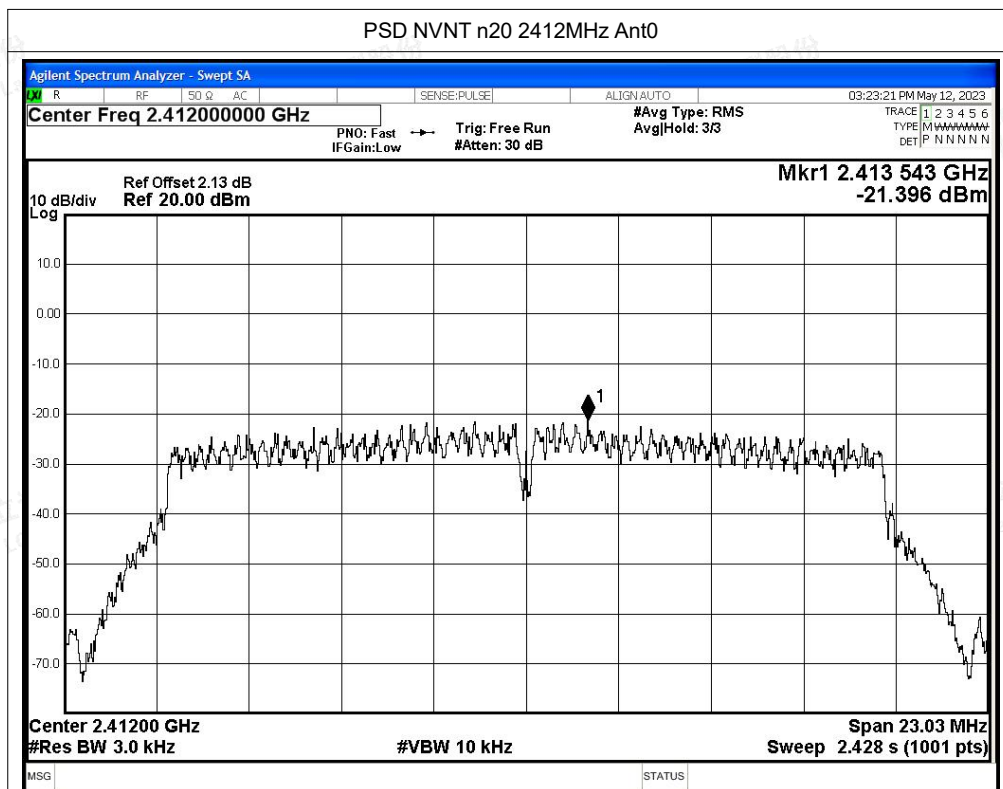


PSD NVNT b 2437MHz Ant0







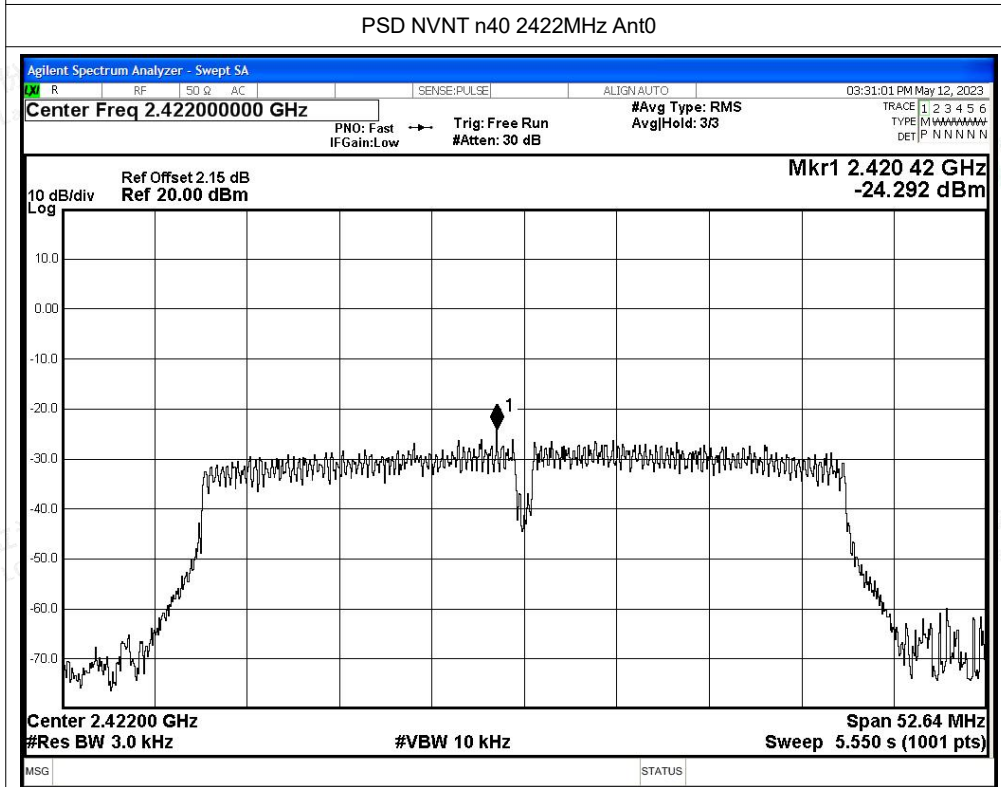
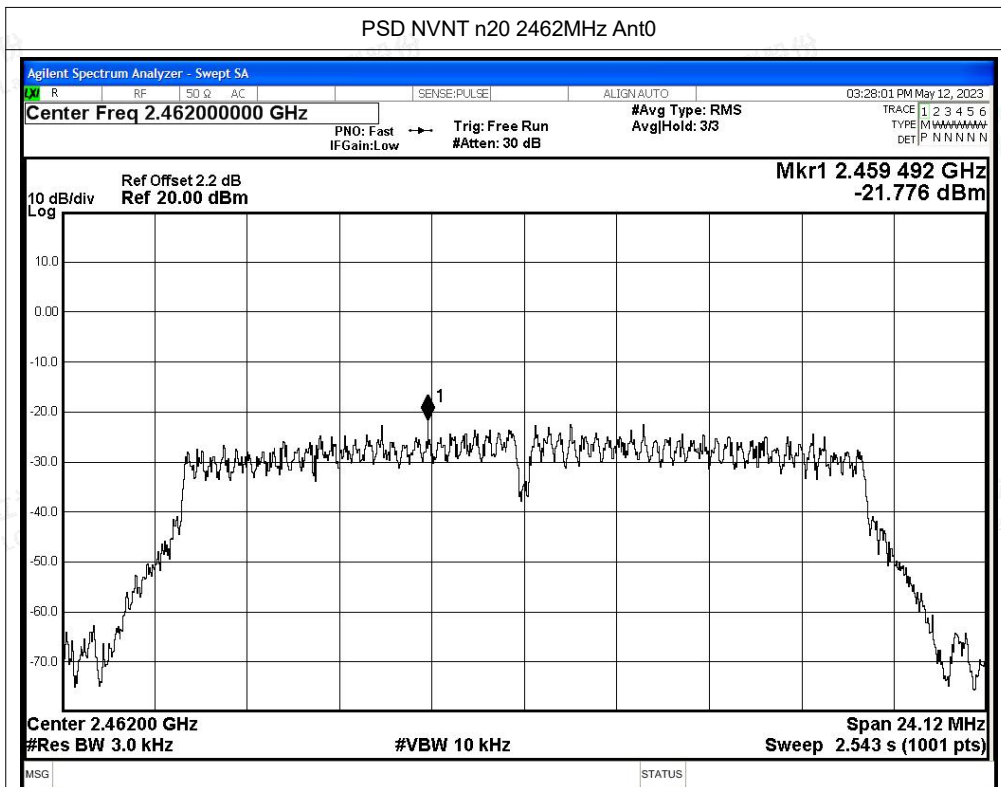


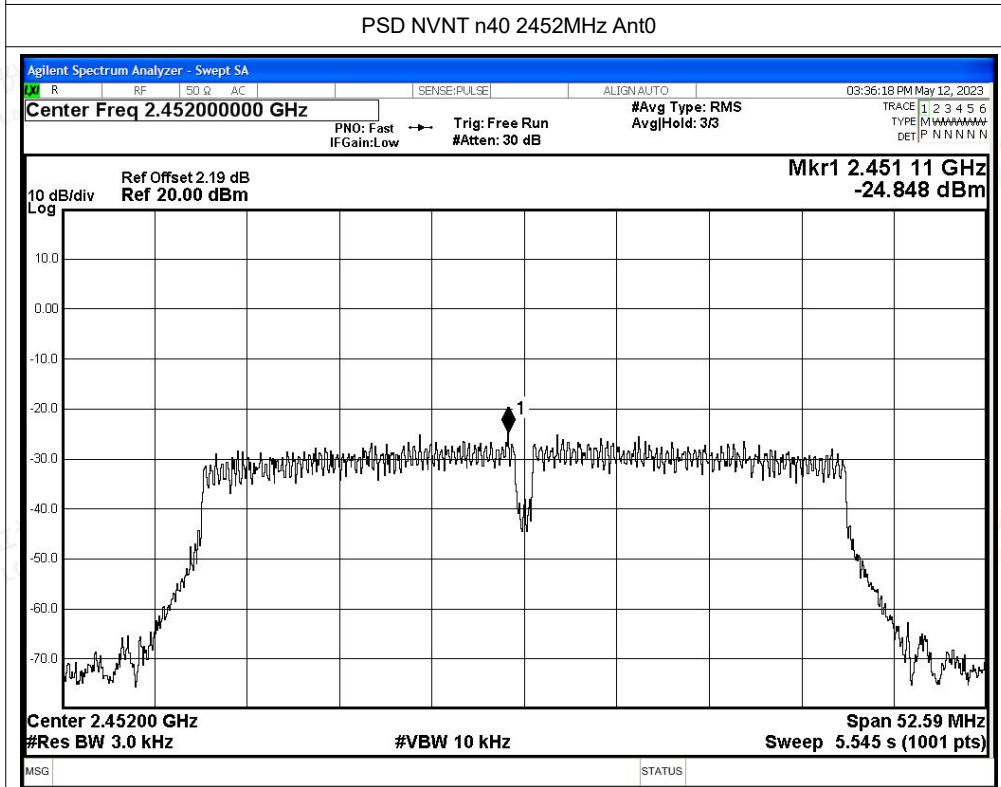
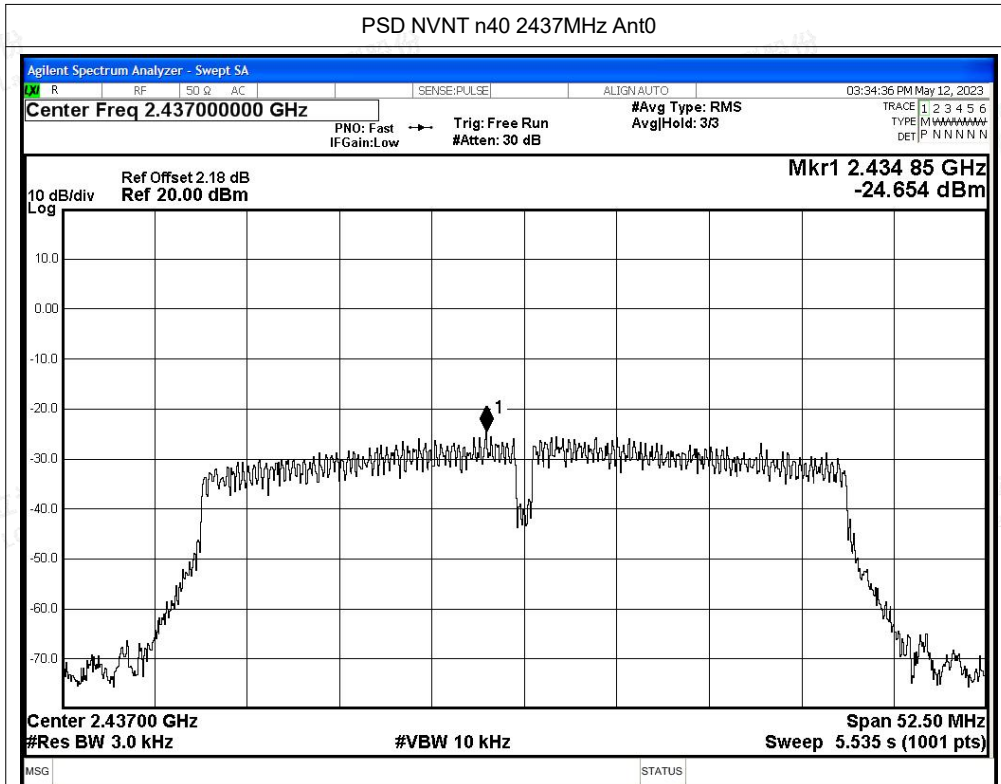
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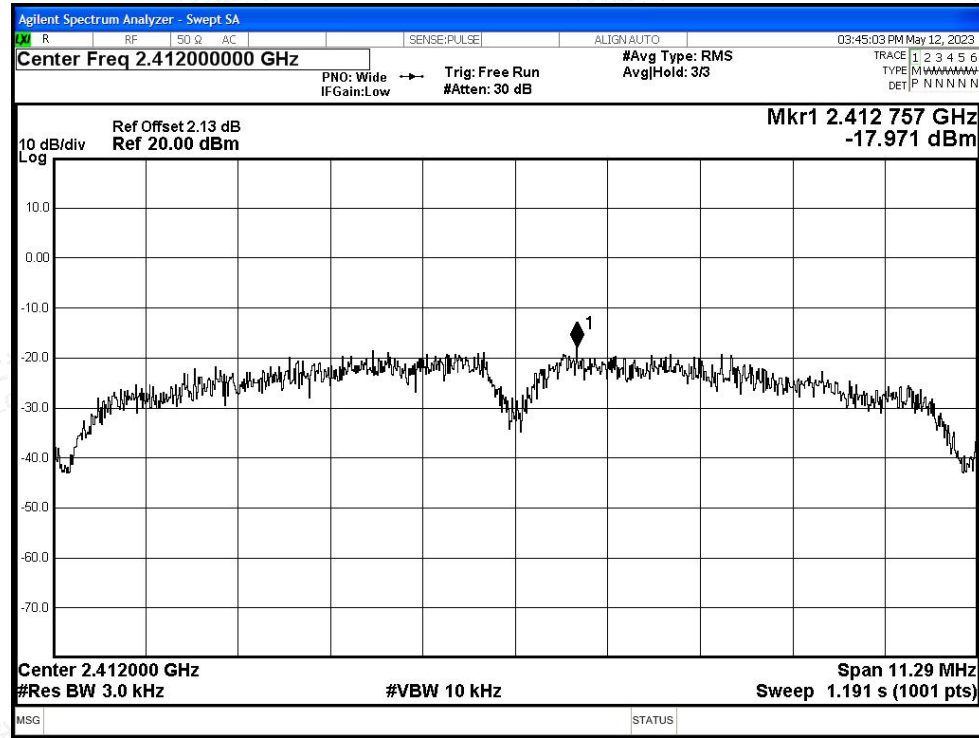






Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1

