

Appendix Test Data

Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	65.08	1.87	2.44
NVNT	BLE 1M	2440	Ant1	64.52	1.9	2.5
NVNT	BLE 1M	2480	Ant1	64.52	1.9	2.5
NVNT	BLE 2M	2402	Ant1	34.92	4.57	4.55
NVNT	BLE 2M	2440	Ant1	36.51	4.38	4.35
NVNT	BLE 2M	2480	Ant1	36.51	4.38	4.35

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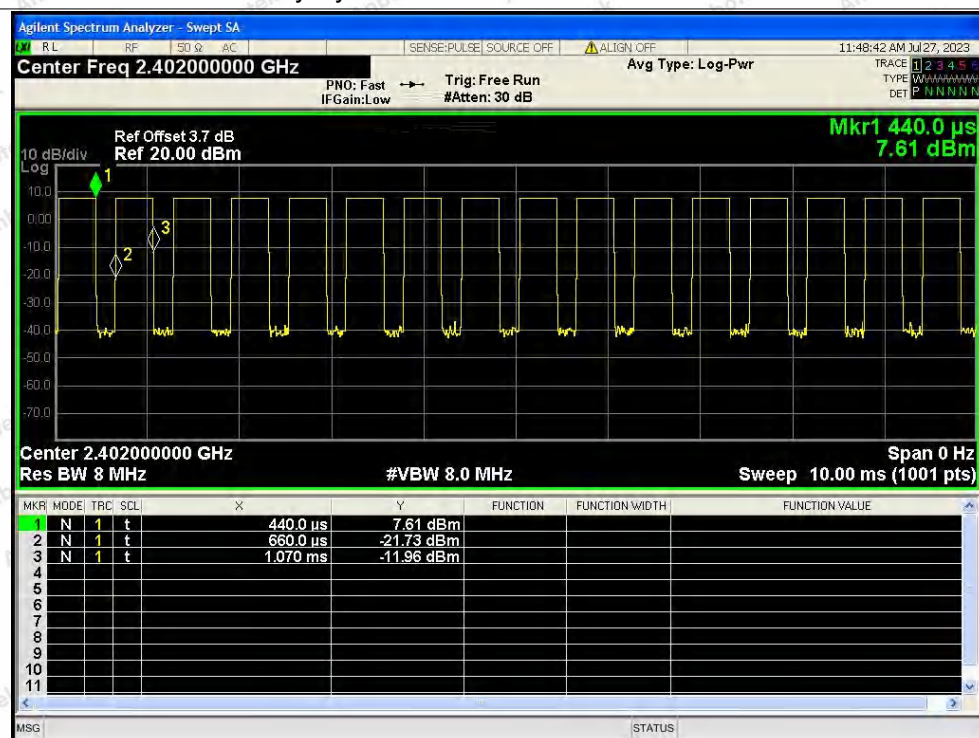


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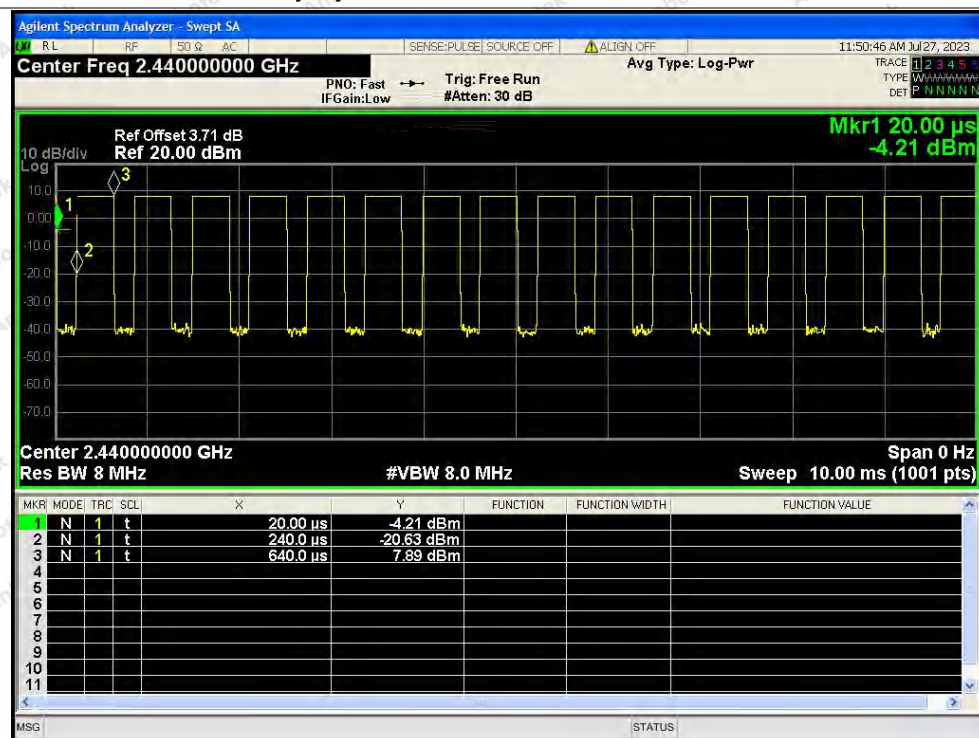


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1



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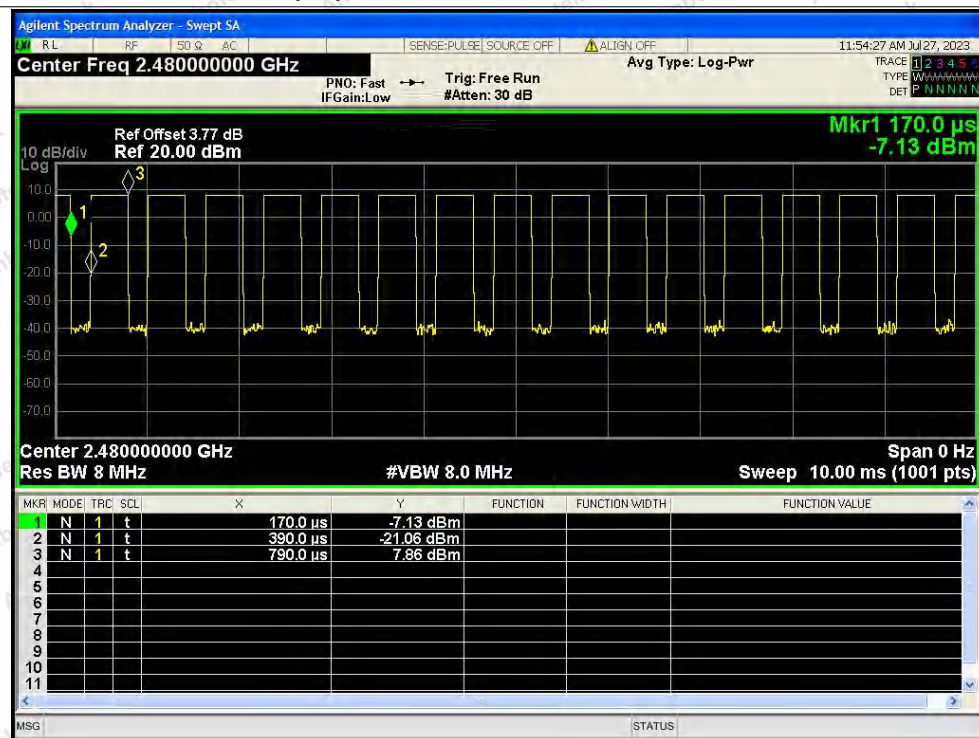
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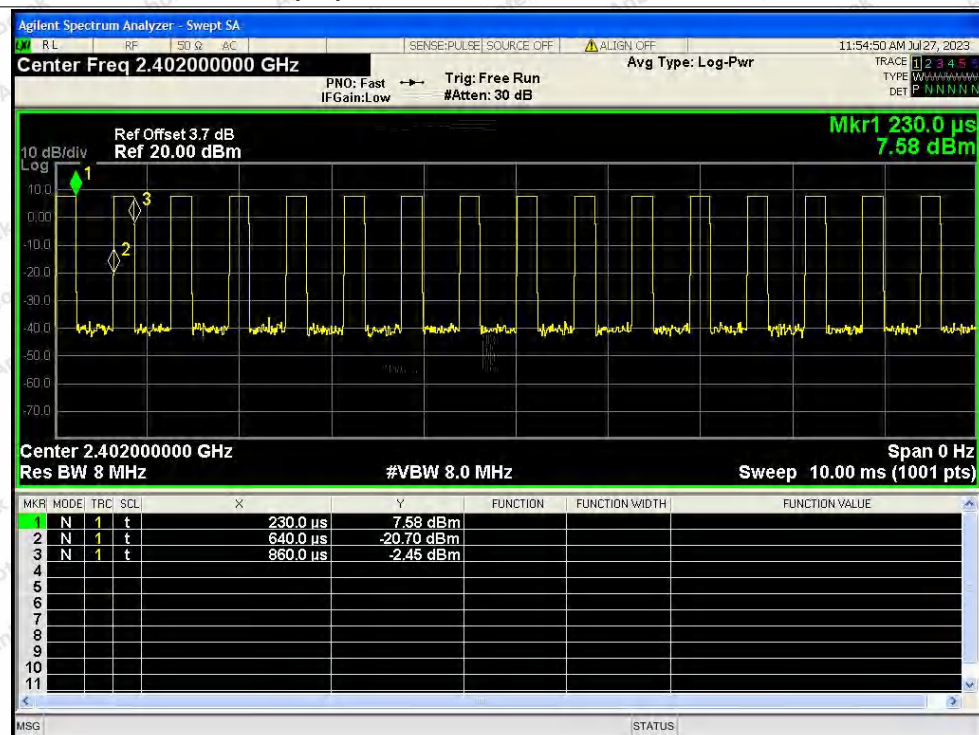
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Duty Cycle NVNT BLE 1M 2480MHz Ant1



Duty Cycle NVNT BLE 2M 2402MHz Ant1



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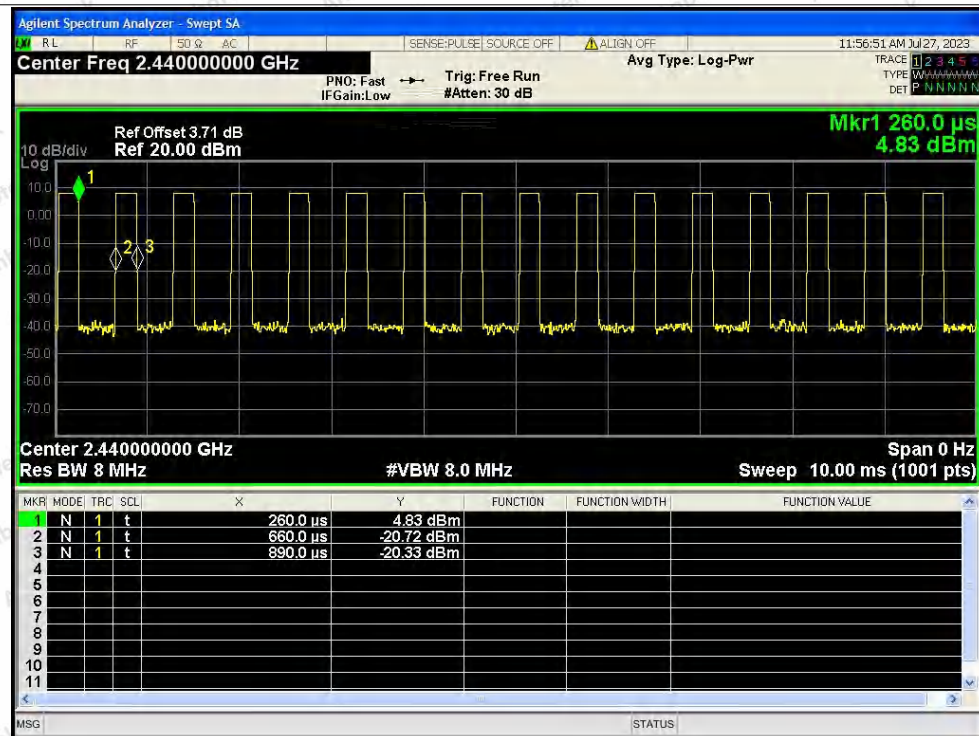
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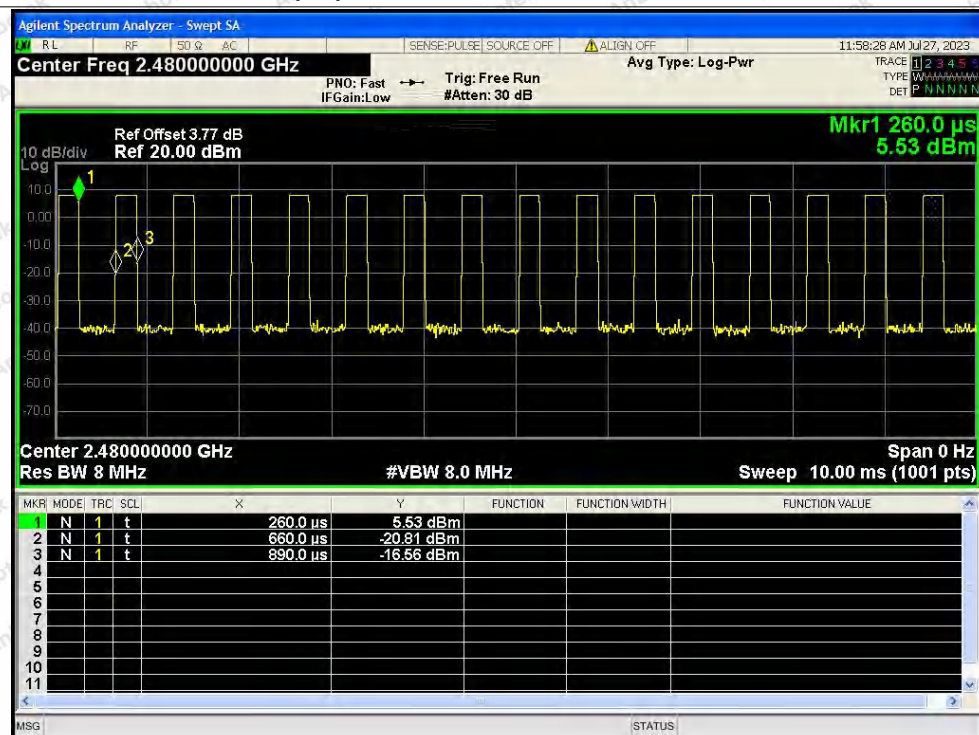
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Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1



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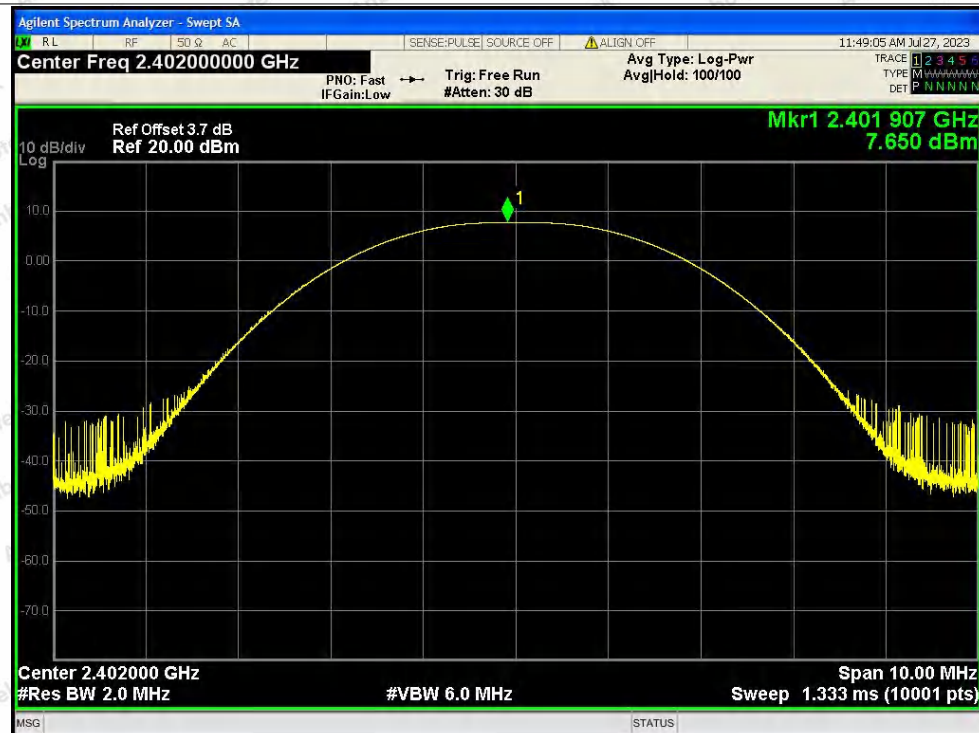
Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (mW)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	7.65	0	7.65	5.82	30	Pass
NVNT	BLE 1M	2440	Ant1	7.92	0	7.92	6.19	30	Pass
NVNT	BLE 1M	2480	Ant1	7.92	0	7.92	6.19	30	Pass
NVNT	BLE 2M	2402	Ant1	7.69	0	7.69	5.87	30	Pass
NVNT	BLE 2M	2440	Ant1	7.97	0	7.97	6.27	30	Pass
NVNT	BLE 2M	2480	Ant1	7.99	0	7.99	6.3	30	Pass



Test Graphs

Peak Power NVNT BLE 1M 2402MHz Ant1



Peak Power NVNT BLE 1M 2440MHz Ant1



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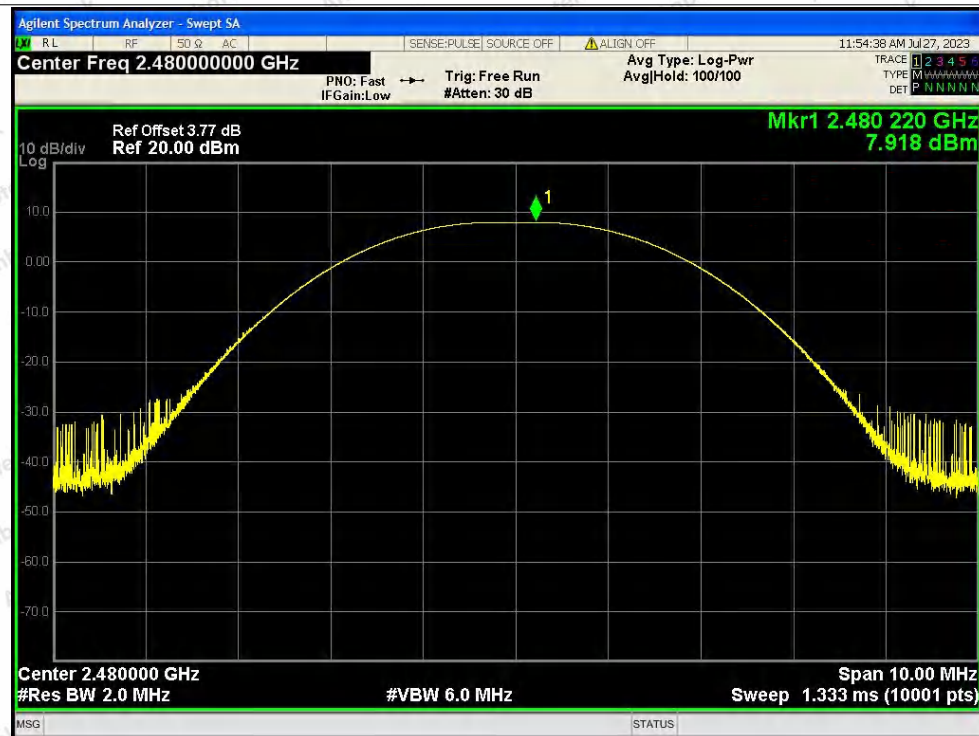
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



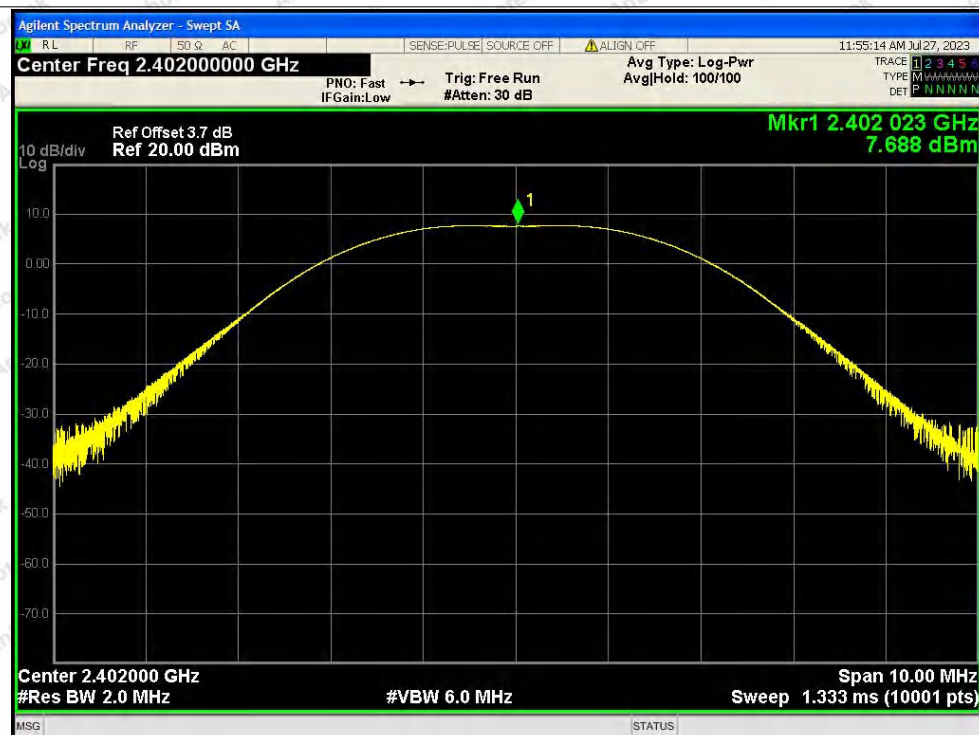
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Peak Power NVNT BLE 1M 2480MHz Ant1



Peak Power NVNT BLE 2M 2402MHz Ant1



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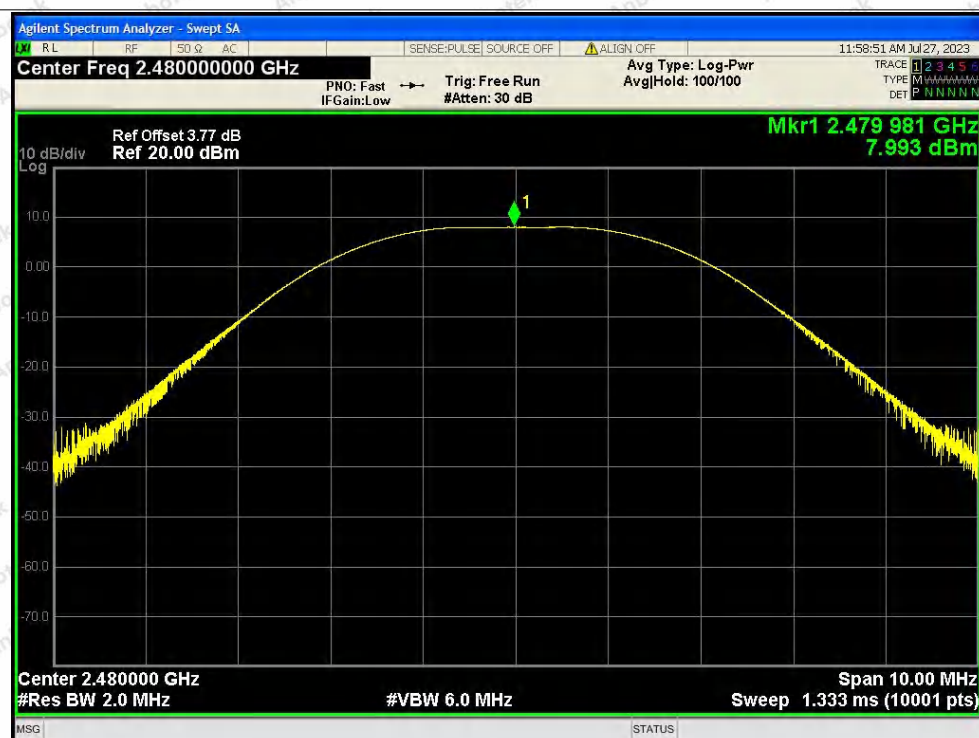
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Peak Power NVNT BLE 2M 2440MHz Ant1



Peak Power NVNT BLE 2M 2480MHz Ant1



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Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (mW)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	5.52	1.87	7.39	5.48	30	Pass
NVNT	BLE 1M	2440	Ant1	5.75	1.9	7.65	5.82	30	Pass
NVNT	BLE 1M	2480	Ant1	5.85	1.9	7.75	5.96	30	Pass
NVNT	BLE 2M	2402	Ant1	2.91	4.57	7.48	5.6	30	Pass
NVNT	BLE 2M	2440	Ant1	2.98	4.38	7.36	5.45	30	Pass
NVNT	BLE 2M	2480	Ant1	3.04	4.38	7.42	5.52	30	Pass

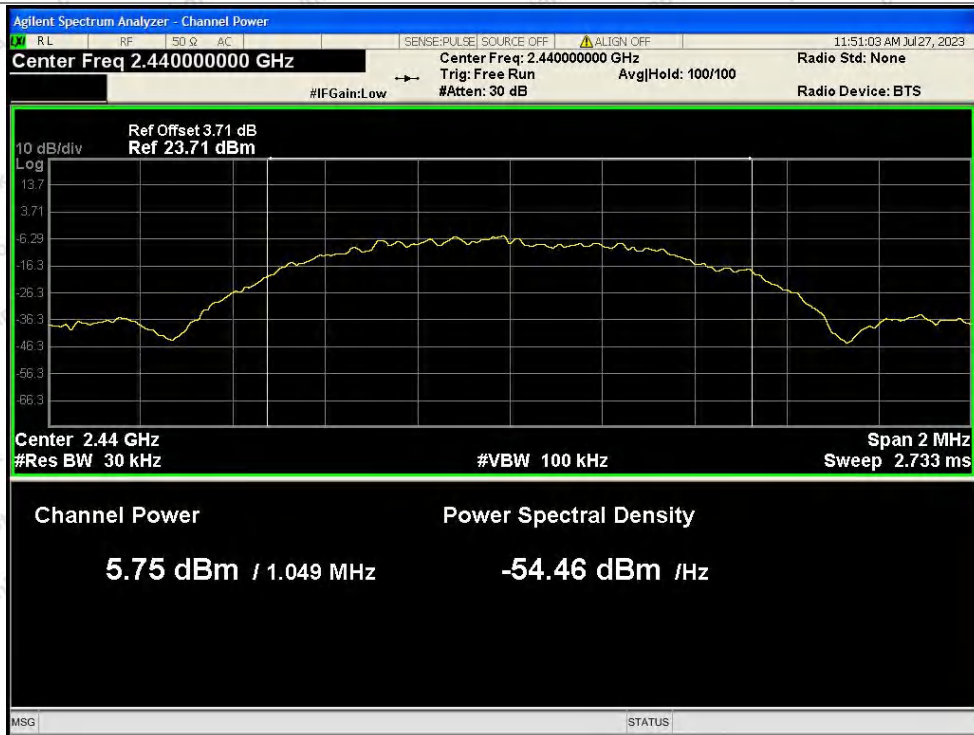


Test Graphs

Average Power NVNT BLE 1M 2402MHz Ant1



Average Power NVNT BLE 1M 2440MHz Ant1



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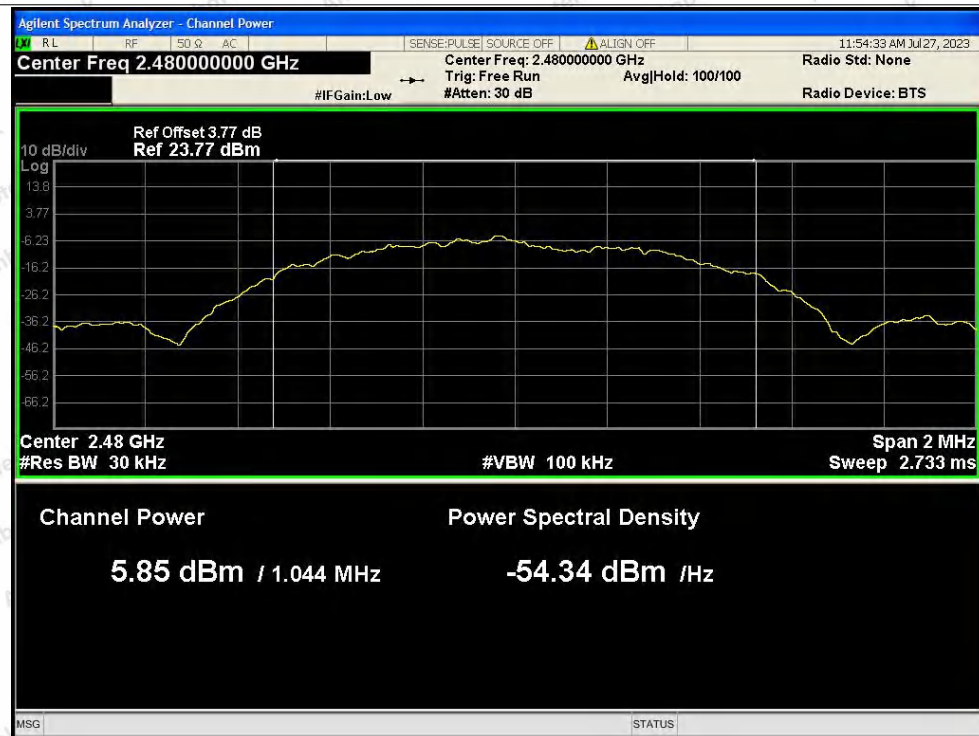
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Average Power NVNT BLE 1M 2480MHz Ant1



Average Power NVNT BLE 2M 2402MHz Ant1



Average Power NVNT BLE 2M 2440MHz Ant1



Average Power NVNT BLE 2M 2480MHz Ant1



6 dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.691	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.706	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.705	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.267	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.163	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.271	0.5	Pass

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Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



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-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



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-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



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Conducted Spurious Emissions

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-45.71	-20	Pass
NVNT	BLE 1M	2440	Ant1	-46	-20	Pass
NVNT	BLE 1M	2480	Ant1	-45.68	-20	Pass
NVNT	BLE 2M	2402	Ant1	-44.97	-20	Pass
NVNT	BLE 2M	2440	Ant1	-46.25	-20	Pass
NVNT	BLE 2M	2480	Ant1	-46.36	-20	Pass

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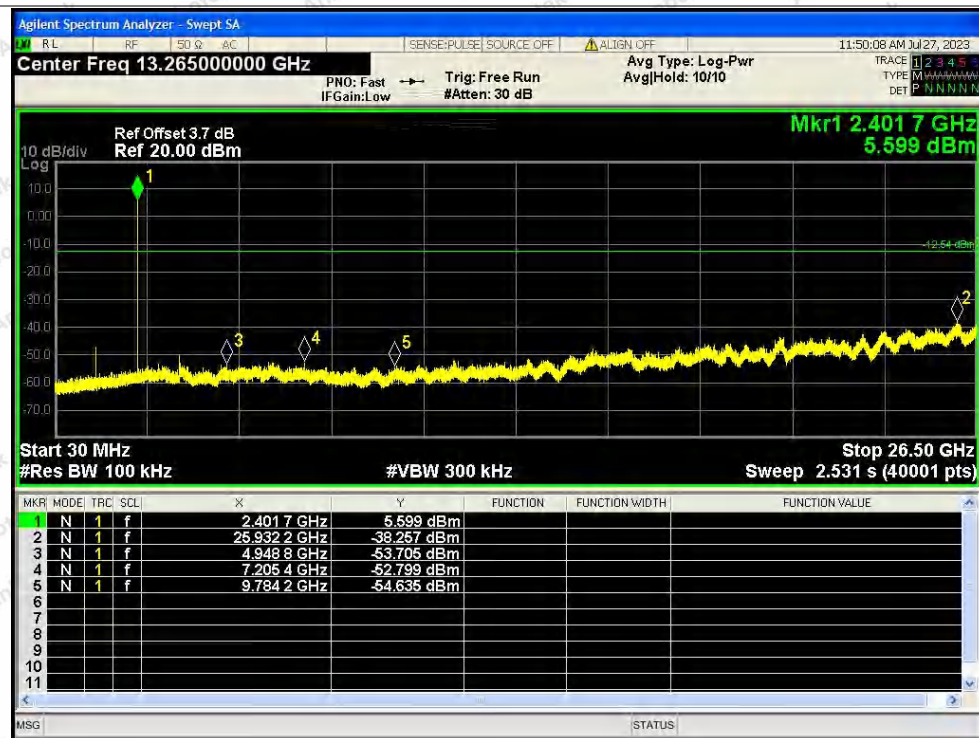


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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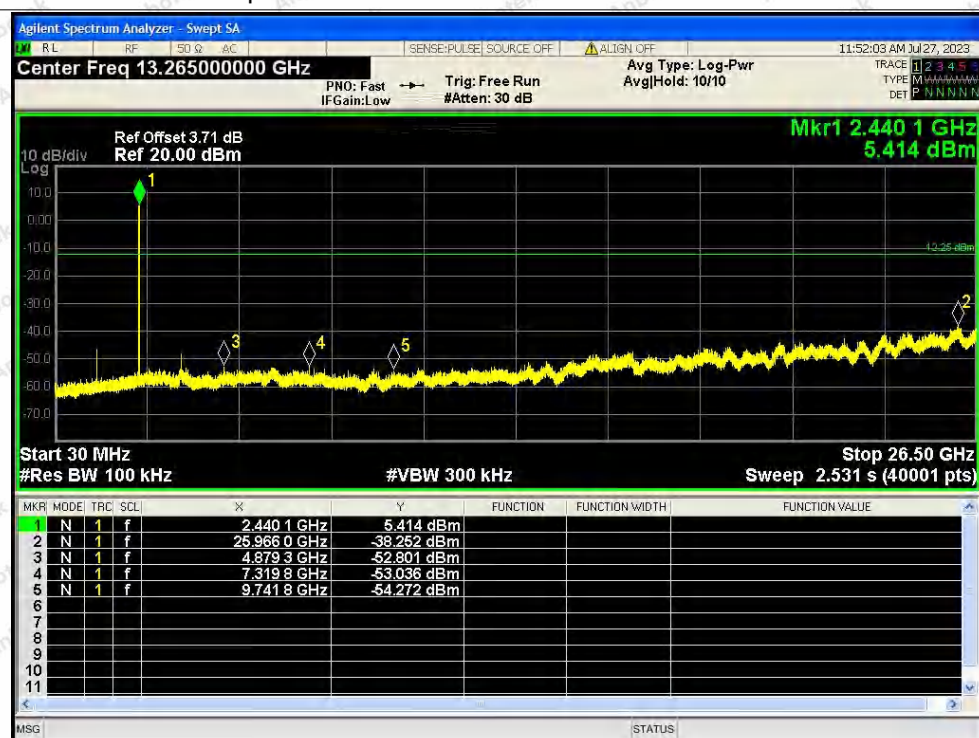
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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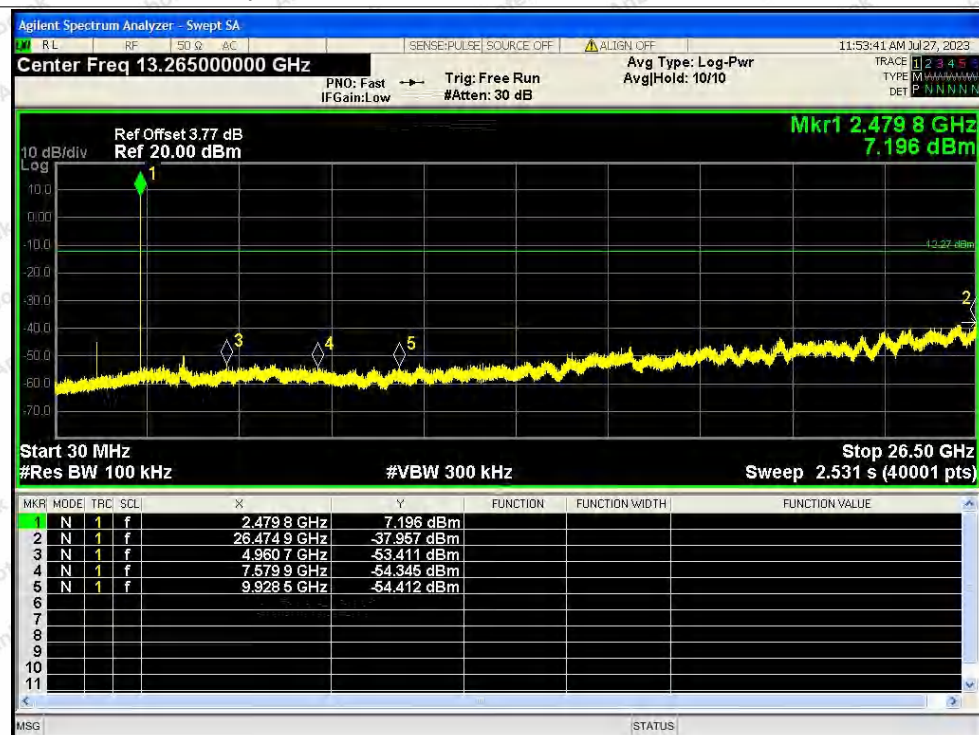
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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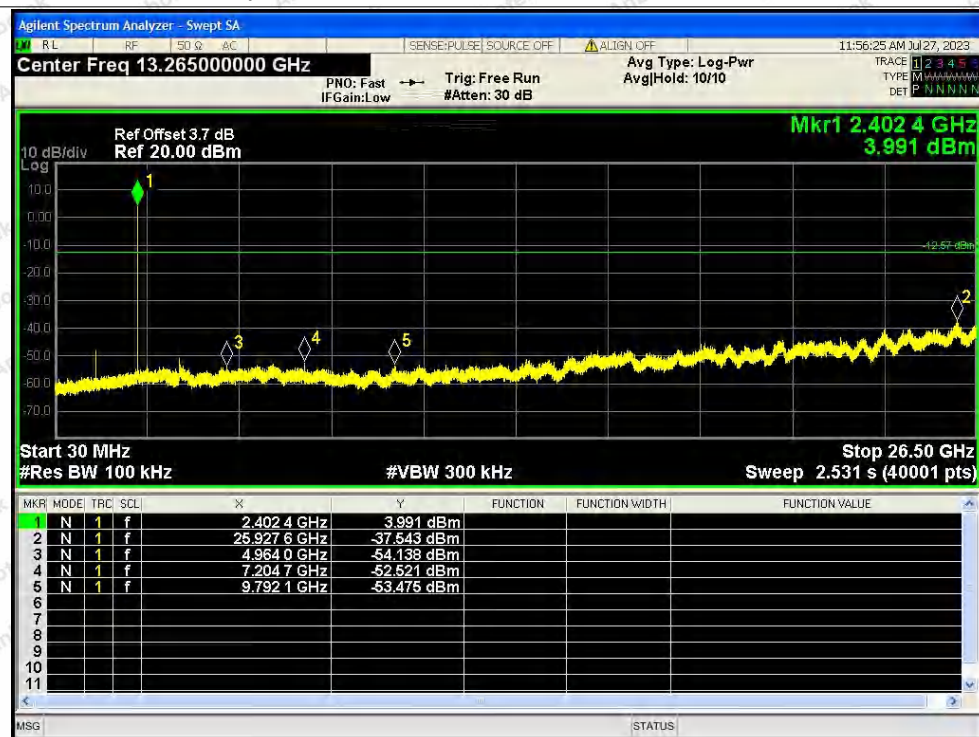
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Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



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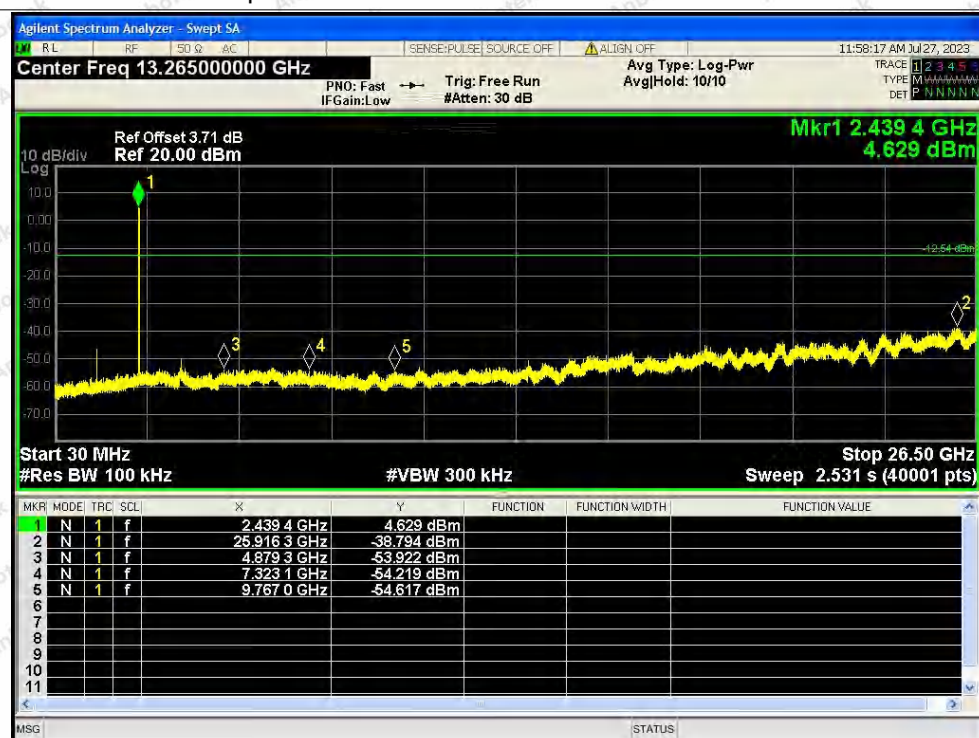
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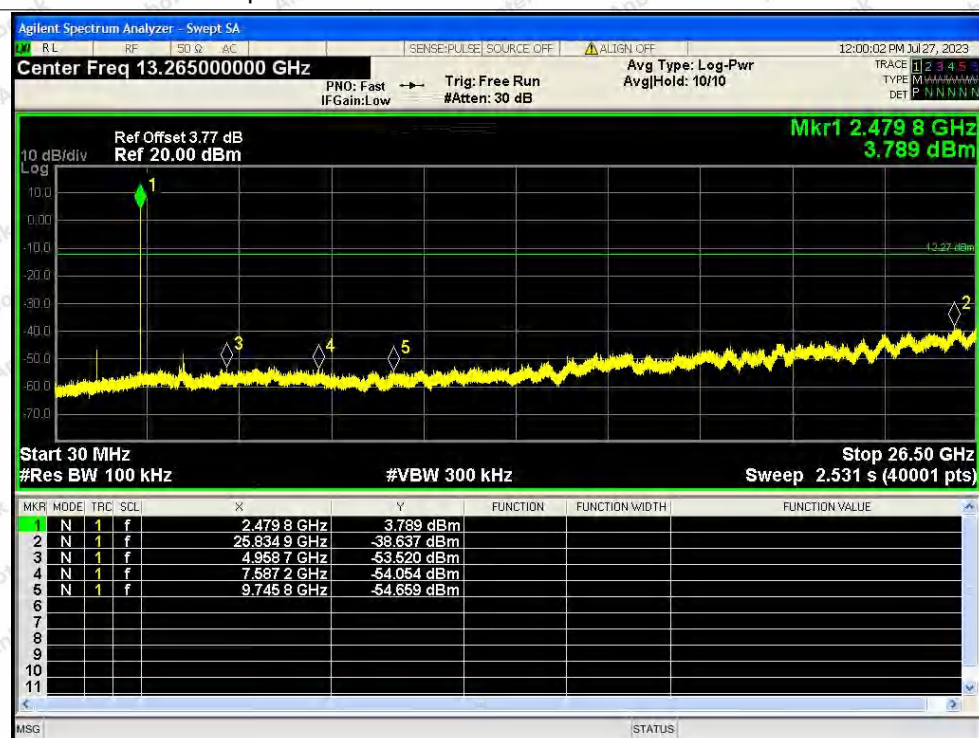
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Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.59	-20	Pass
NVNT	BLE 1M	2480	Ant1	-59.84	-20	Pass
NVNT	BLE 2M	2402	Ant1	-31.56	-20	Pass
NVNT	BLE 2M	2480	Ant1	-57.13	-20	Pass

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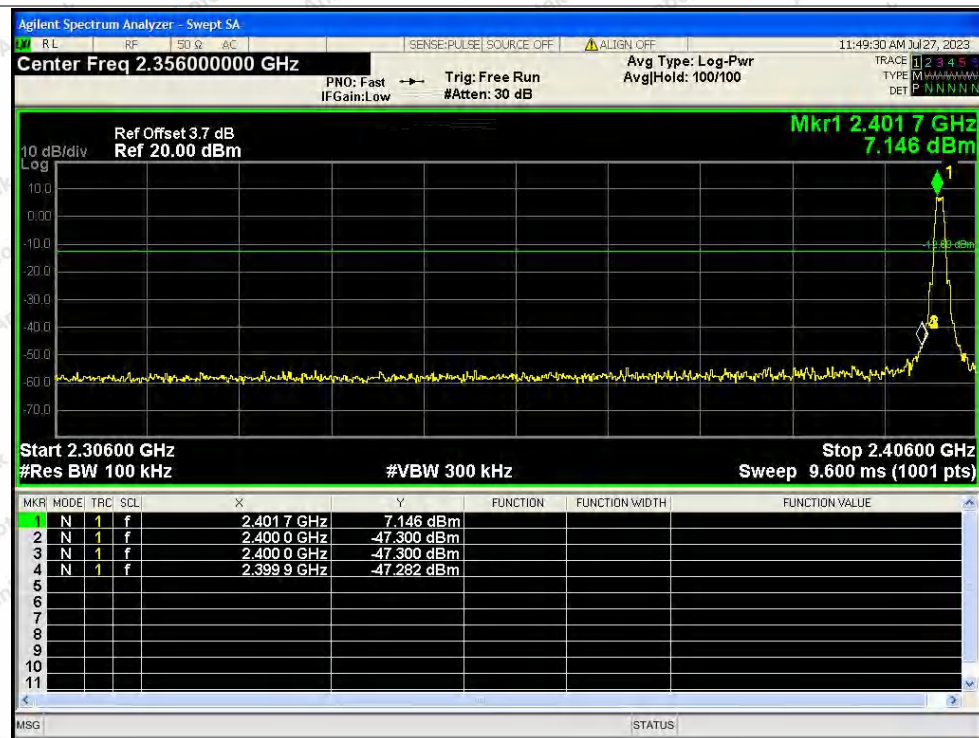


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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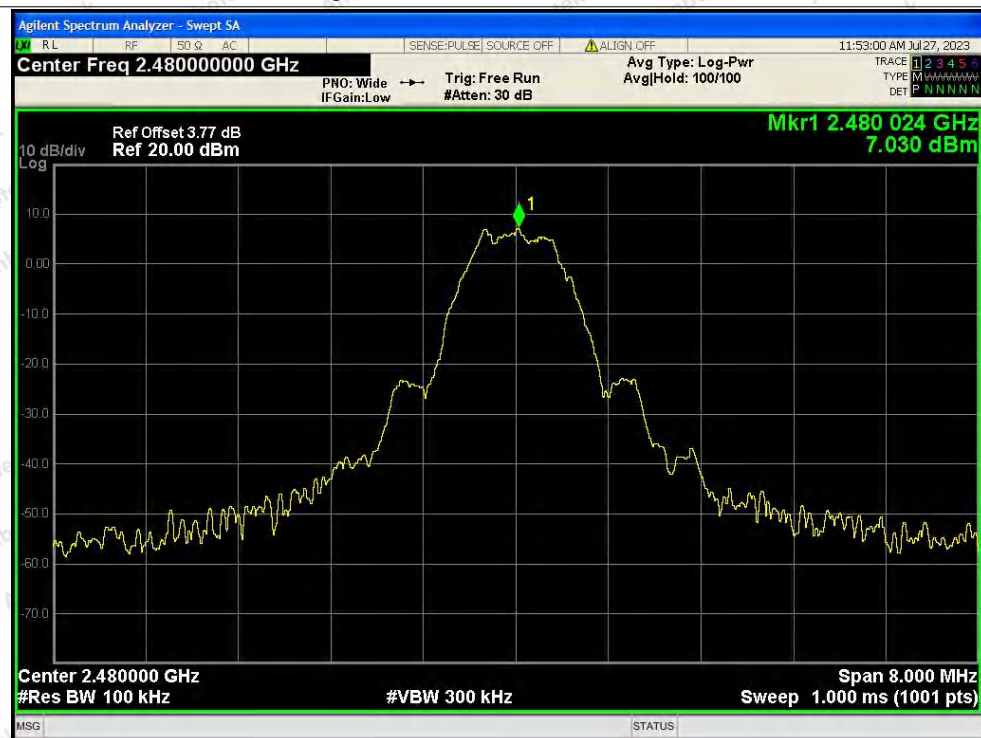
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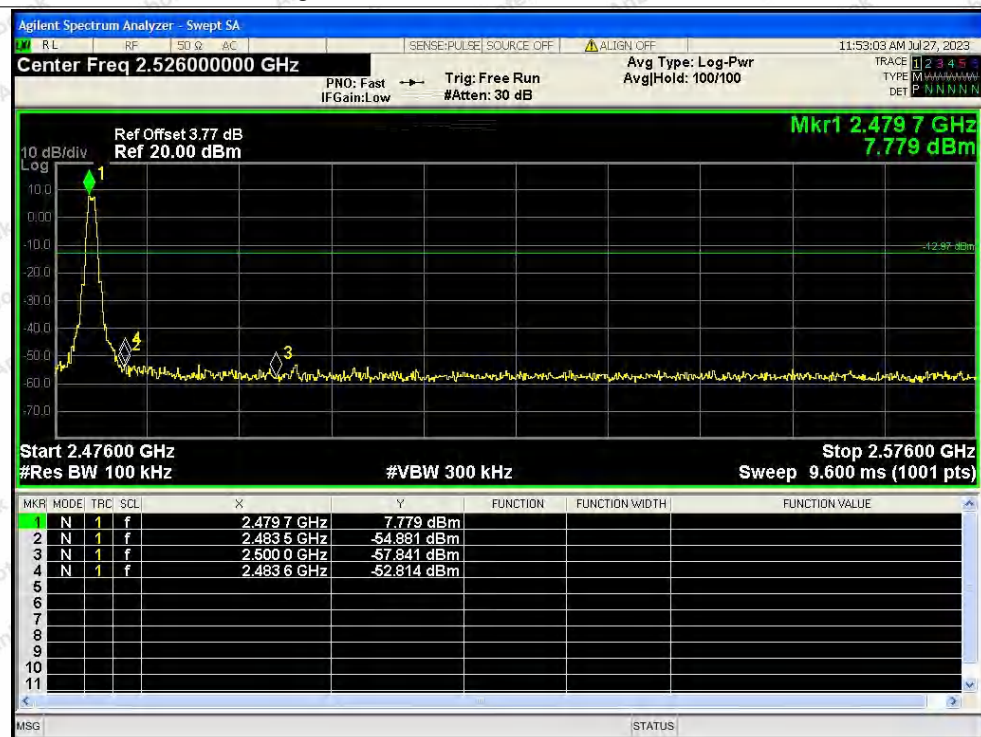
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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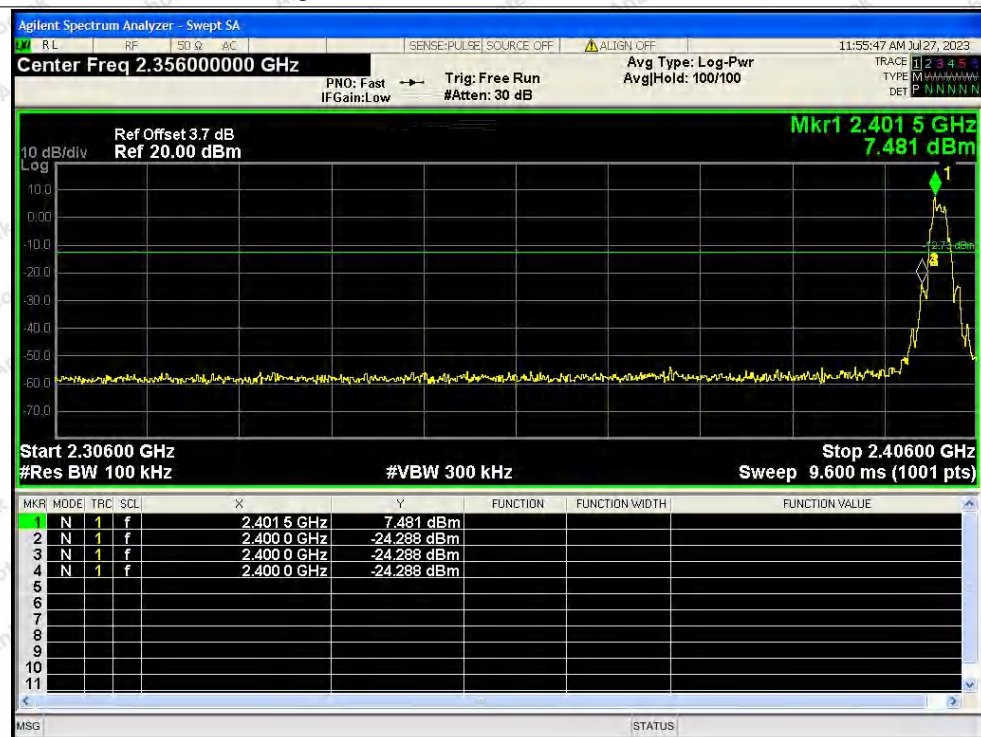
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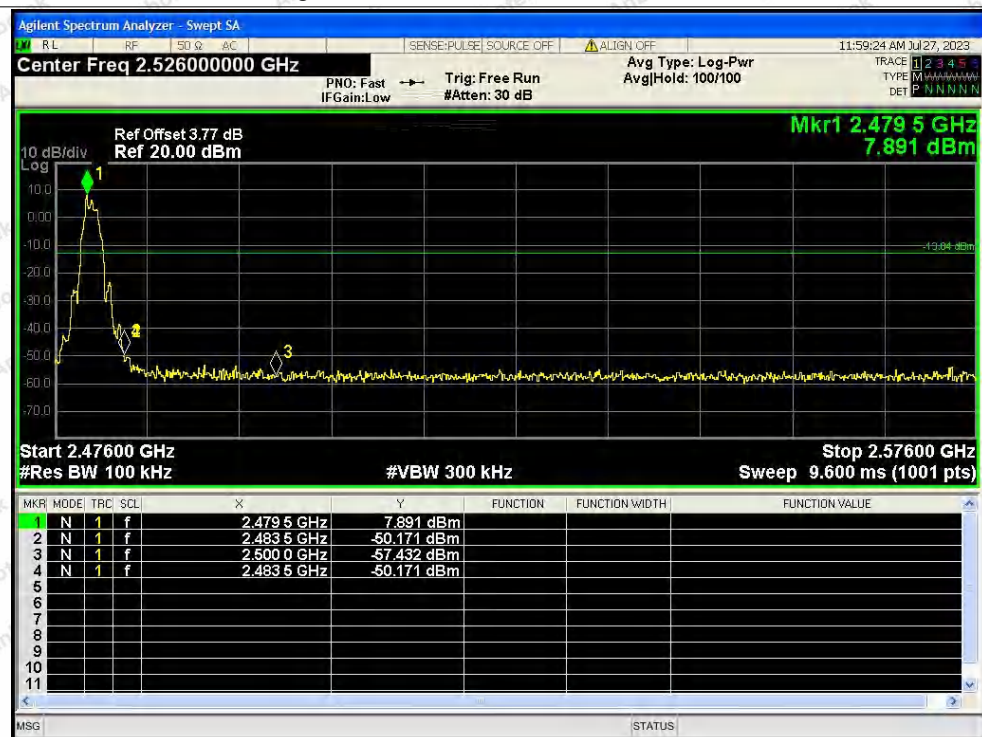
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Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



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Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-7.74	0	-7.74	8	Pass
NVNT	BLE 1M	2440	Ant1	-7.48	0	-7.48	8	Pass
NVNT	BLE 1M	2480	Ant1	-7.55	0	-7.55	8	Pass
NVNT	BLE 2M	2402	Ant1	-11.29	0	-11.29	8	Pass
NVNT	BLE 2M	2440	Ant1	-11	0	-11	8	Pass
NVNT	BLE 2M	2480	Ant1	-11.04	0	-11.04	8	Pass

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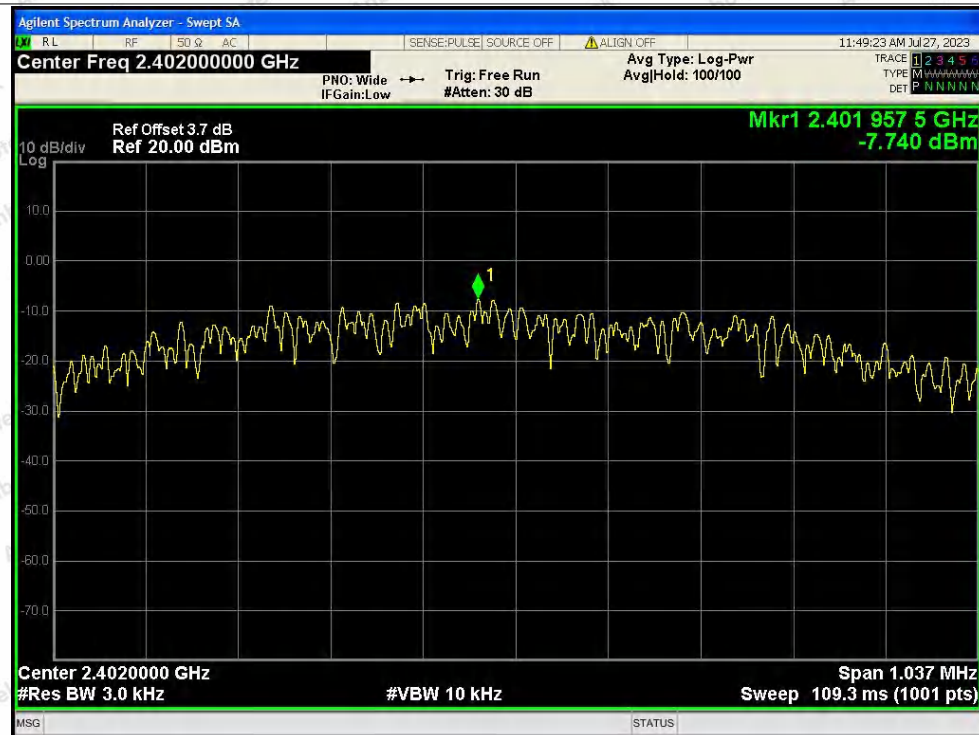


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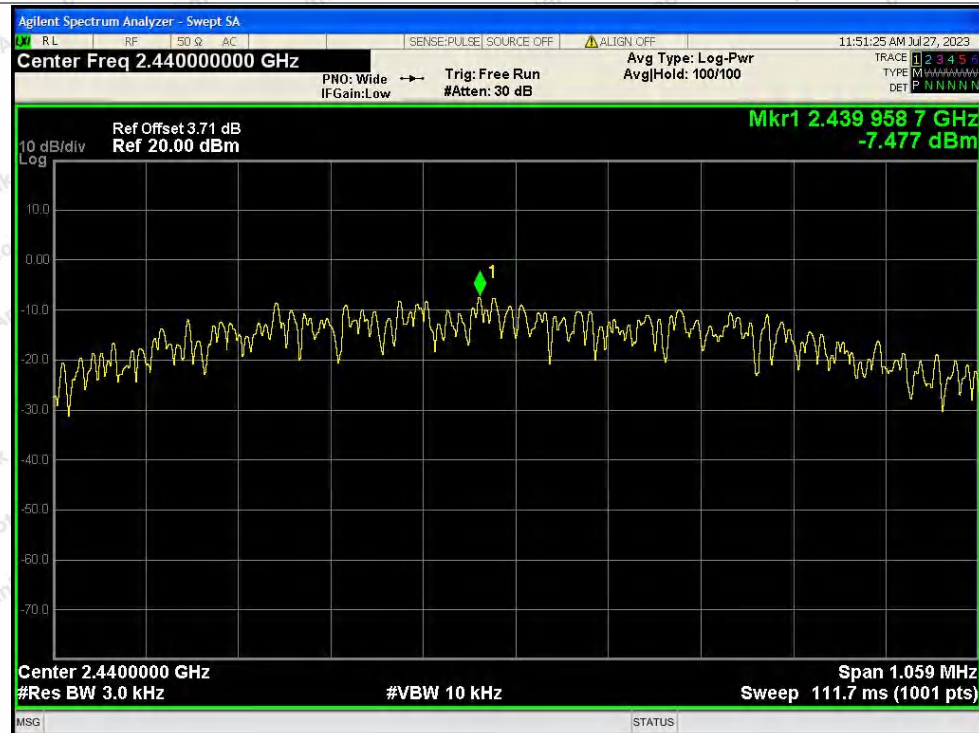


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



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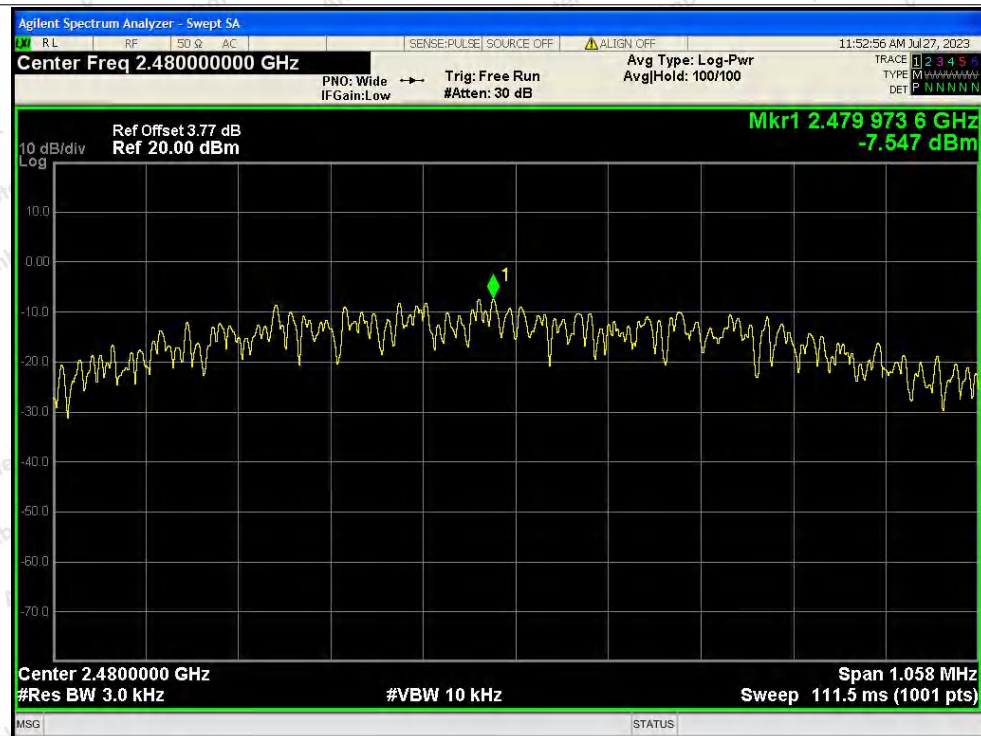
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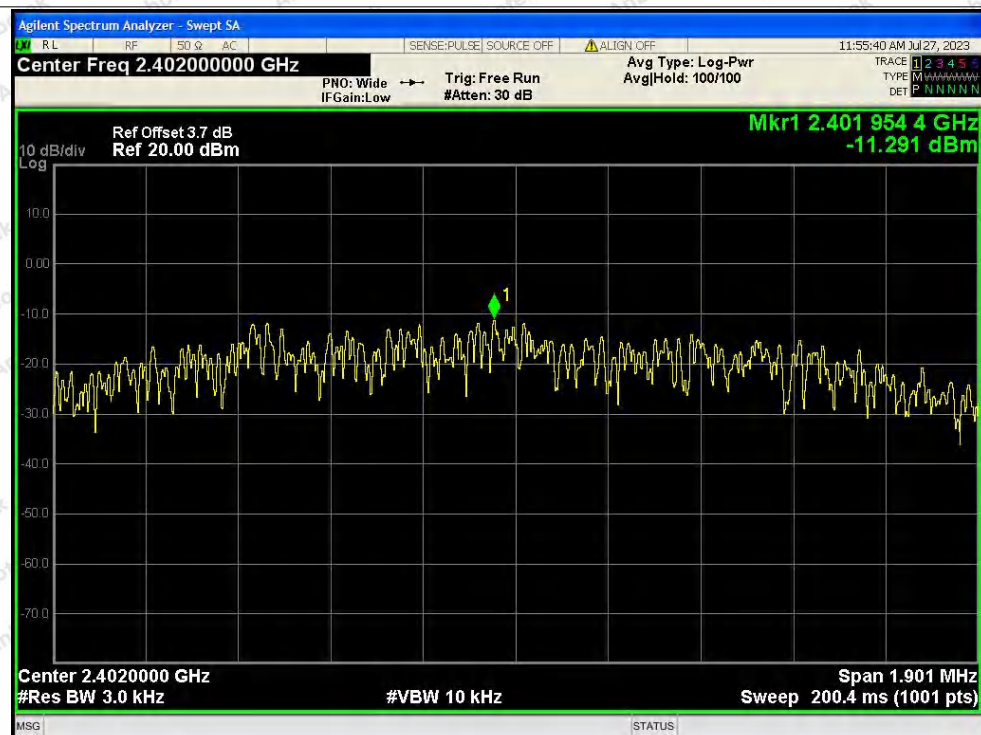
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PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1



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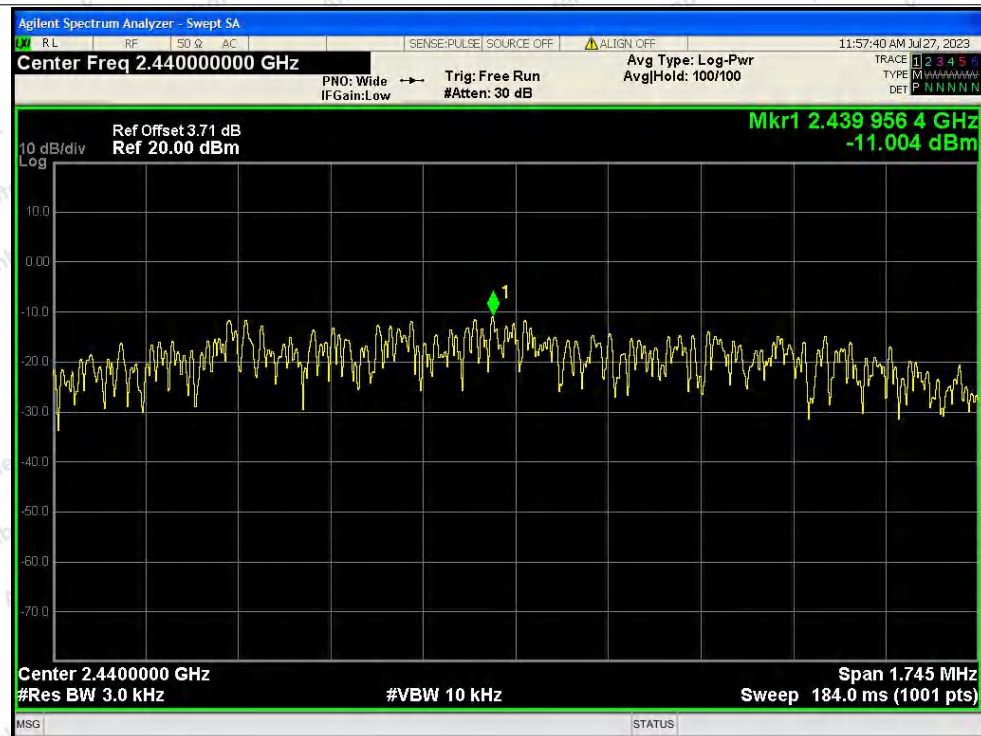
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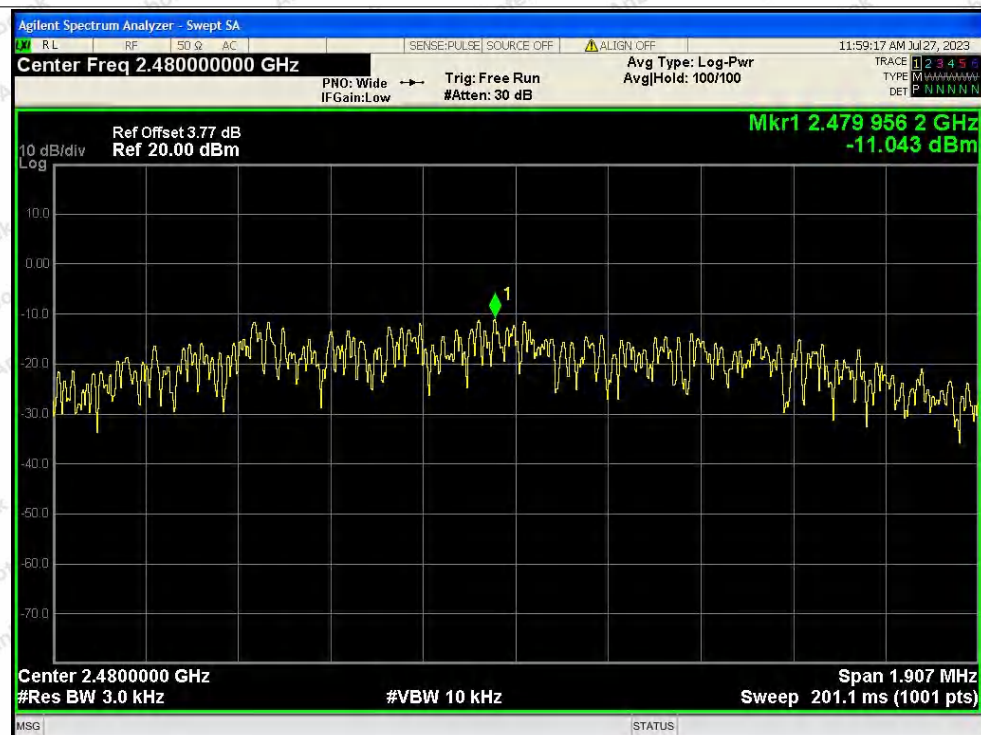
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