

Appendix Test Data

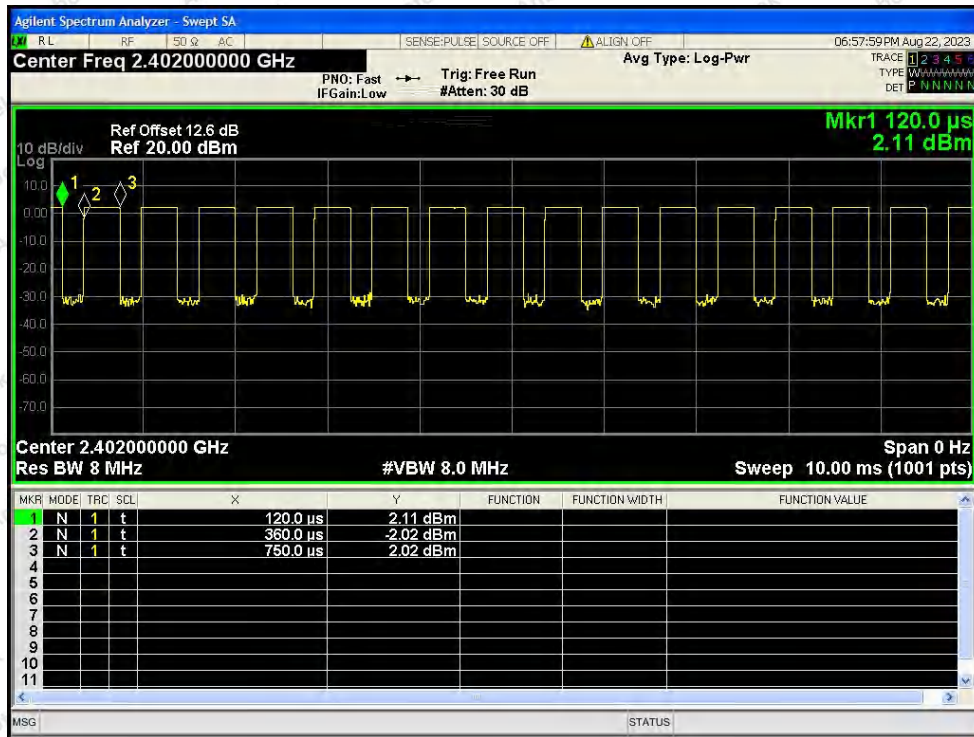
Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.9	2.08	2.56
NVNT	BLE 1M	2440	Ant1	61.9	2.08	2.56
NVNT	BLE 1M	2480	Ant1	61.29	2.13	2.63
NVNT	BLE 2M	2402	Ant1	56.91	2.45	0.93
NVNT	BLE 2M	2440	Ant1	56.91	2.45	0.93
NVNT	BLE 2M	2480	Ant1	57.22	2.42	0.93

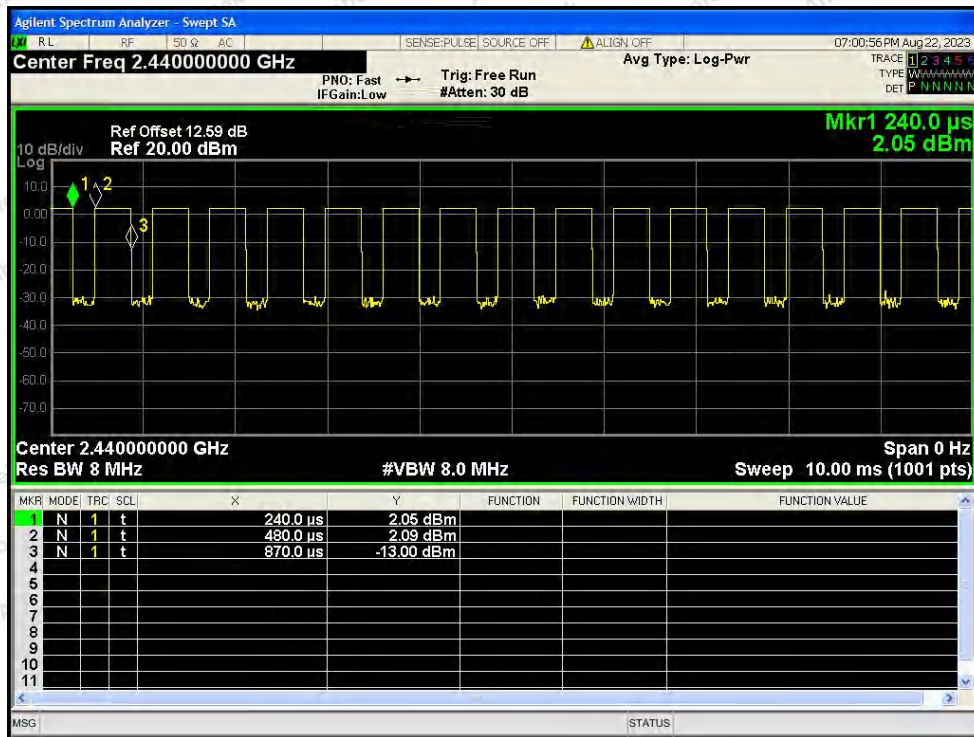


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1



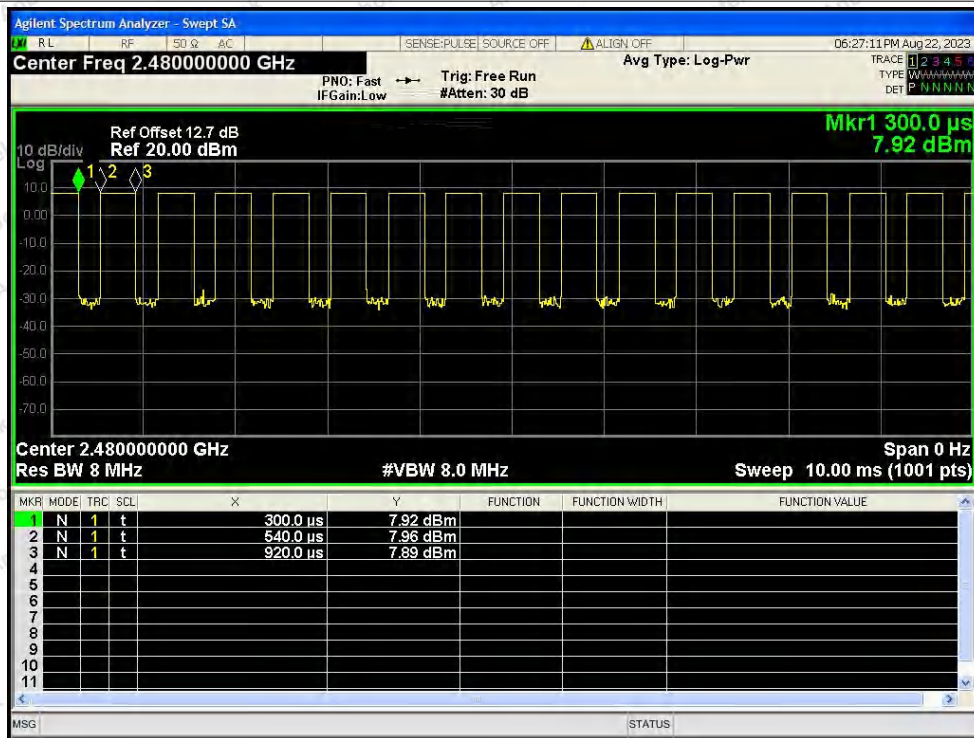
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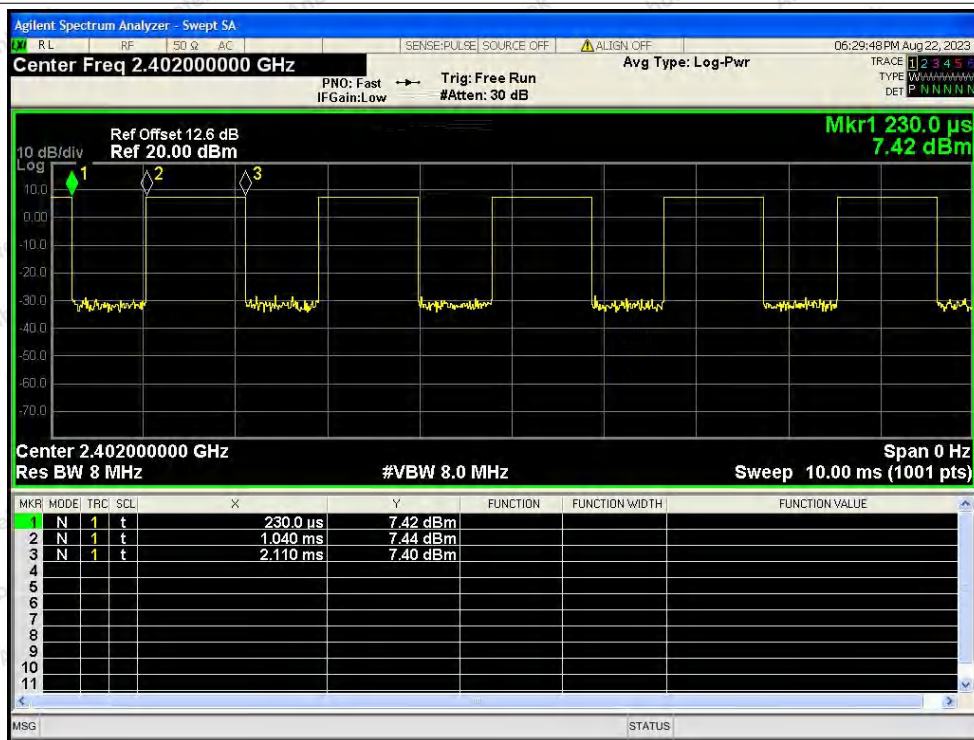
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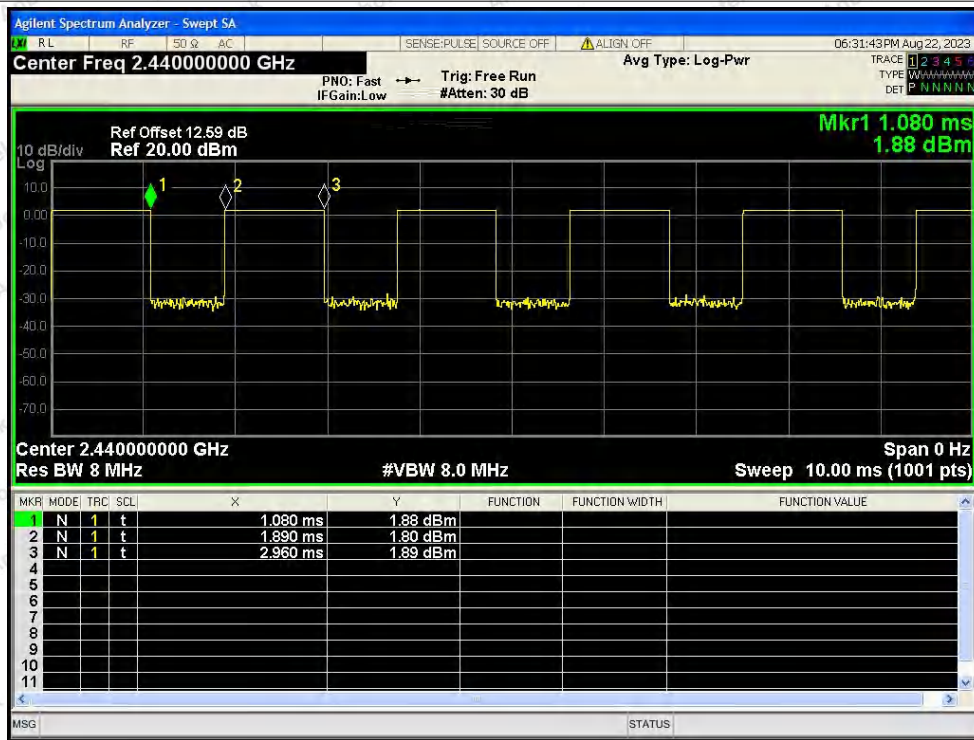
Duty Cycle NVNT BLE 1M 2480MHz Ant1



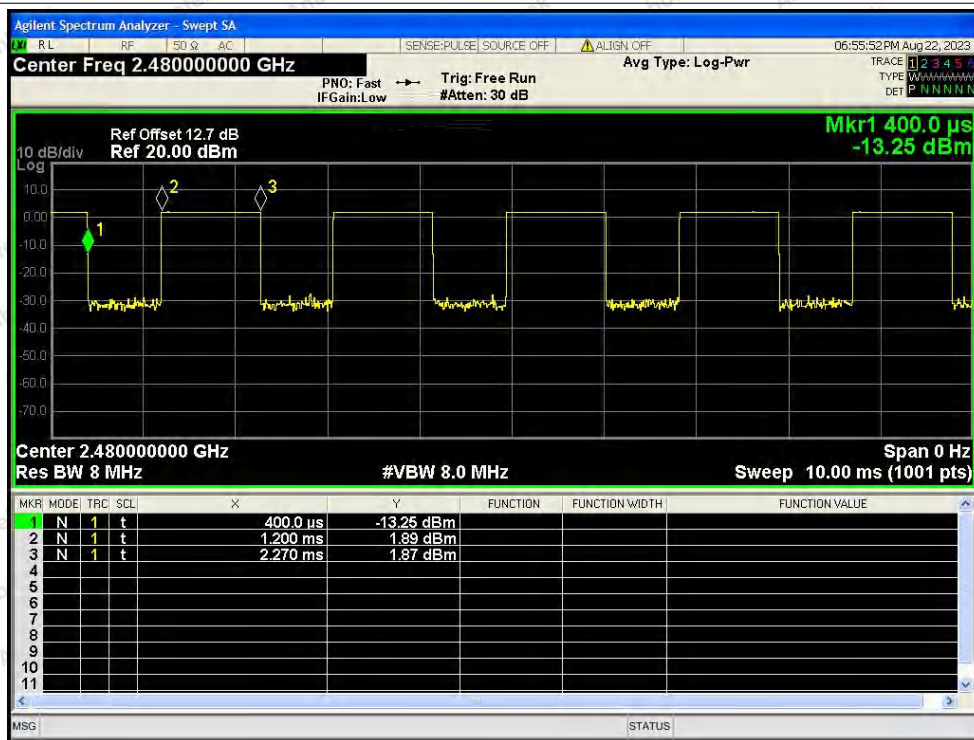
Duty Cycle NVNT BLE 2M 2402MHz Ant1



Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1



Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	3.45	0	3.45	0.00221	30	Pass
NVNT	BLE 1M	2440	Ant1	3.29	0	3.29	0.00213	30	Pass
NVNT	BLE 1M	2480	Ant1	3.19	0	3.19	0.00208	30	Pass
NVNT	BLE 2M	2402	Ant1	3.42	0	3.42	0.0022	30	Pass
NVNT	BLE 2M	2440	Ant1	3.28	0	3.28	0.00213	30	Pass
NVNT	BLE 2M	2480	Ant1	3.17	0	3.17	0.00207	30	Pass

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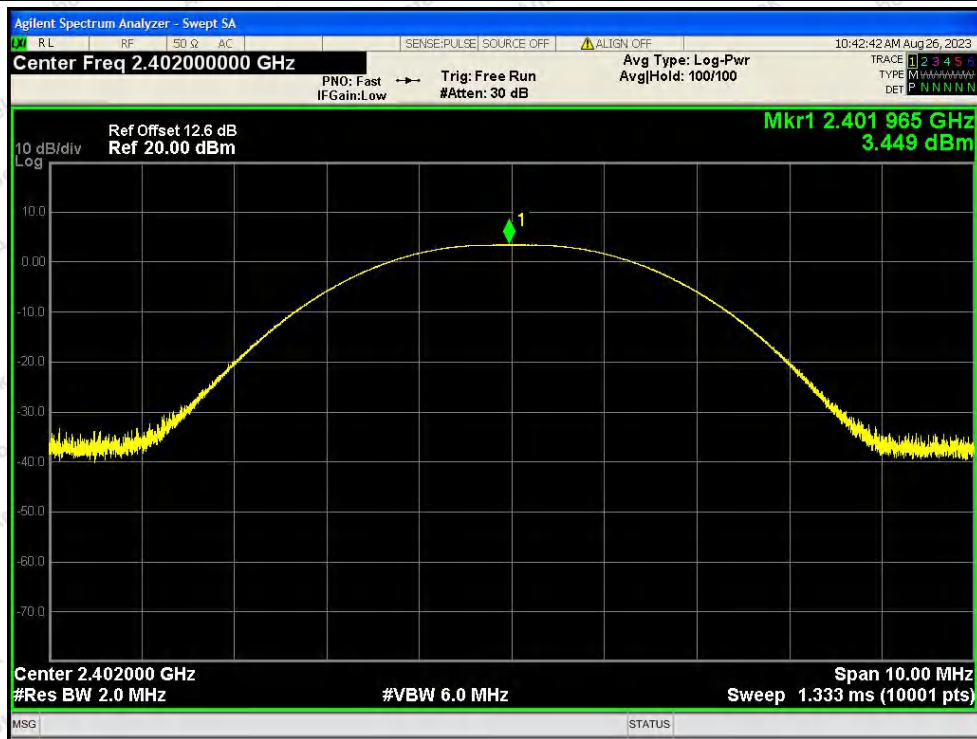


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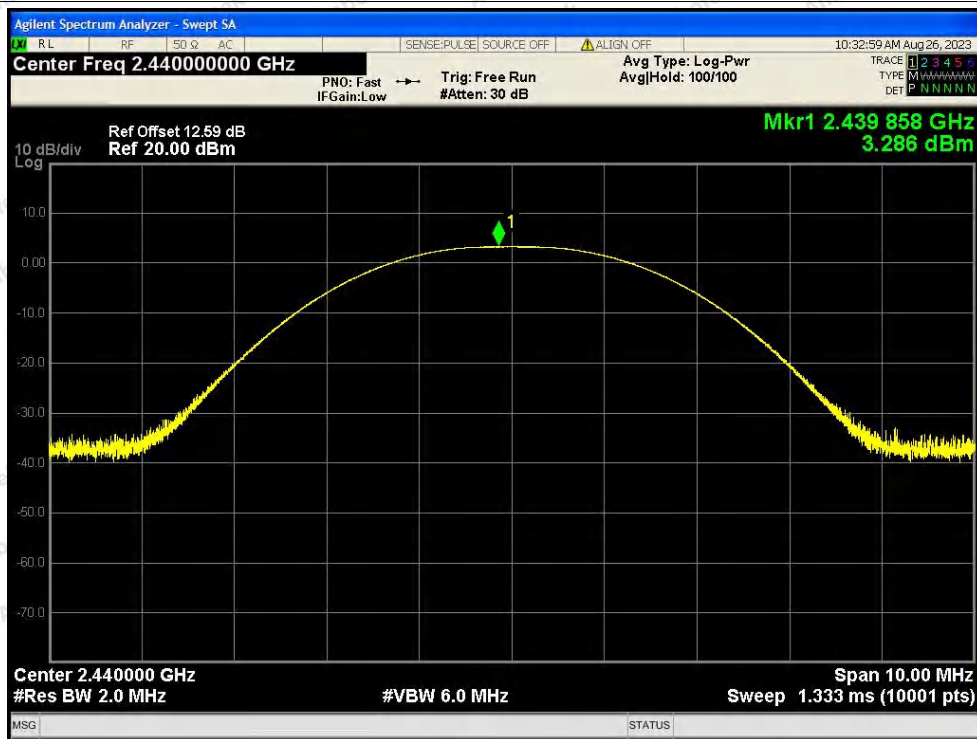


Test Graphs

Peak Power NVNT BLE 1M 2402MHz Ant1



Peak Power NVNT BLE 1M 2440MHz Ant1



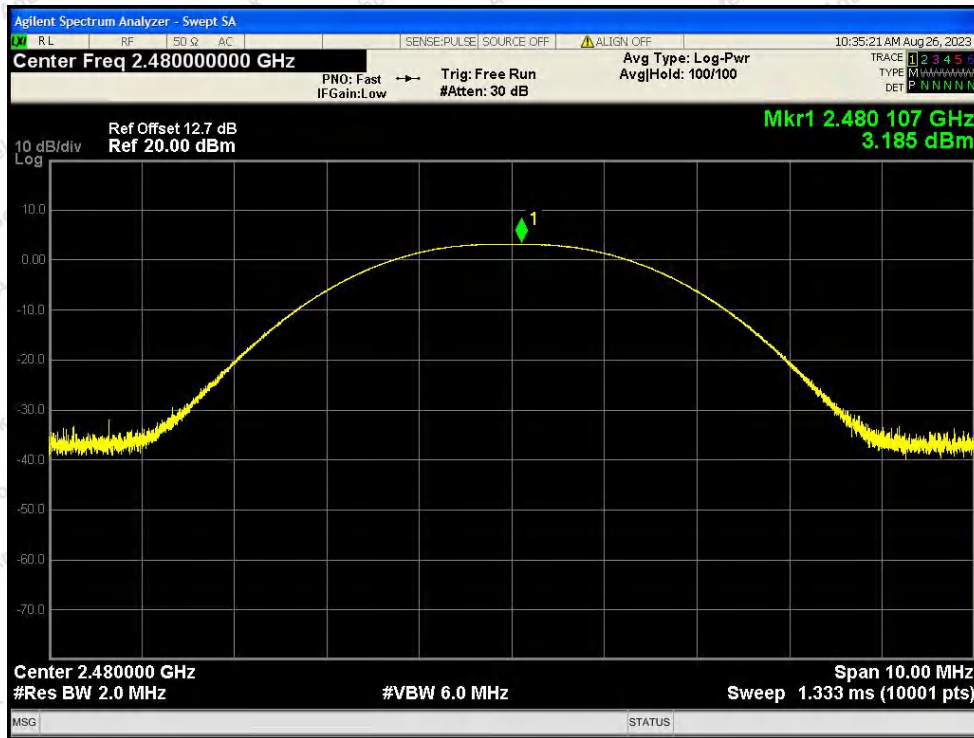
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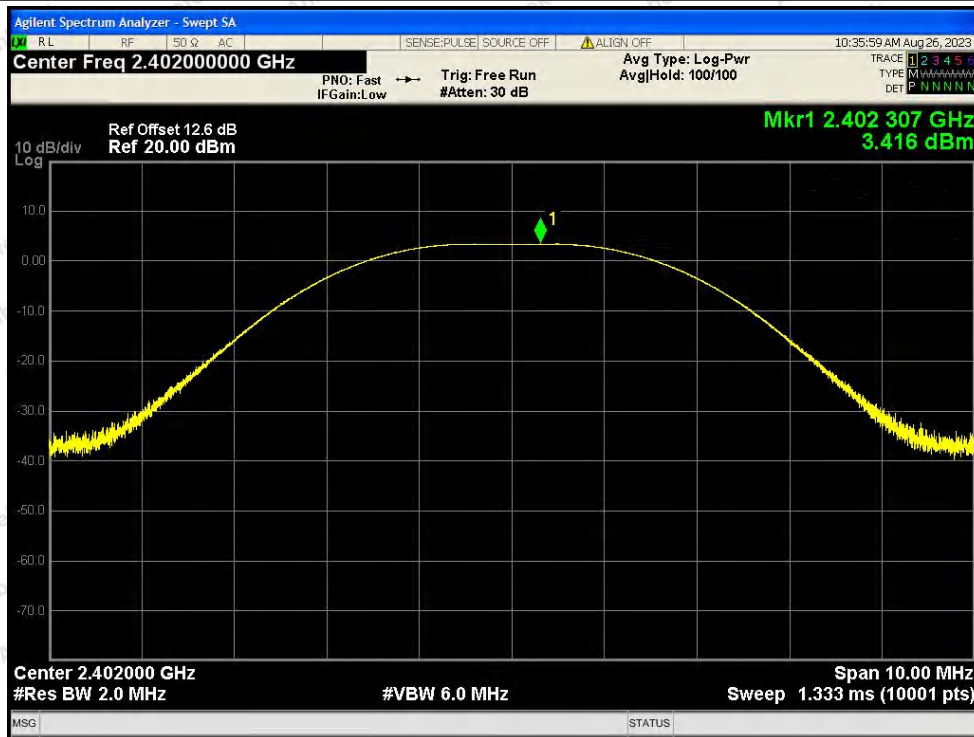
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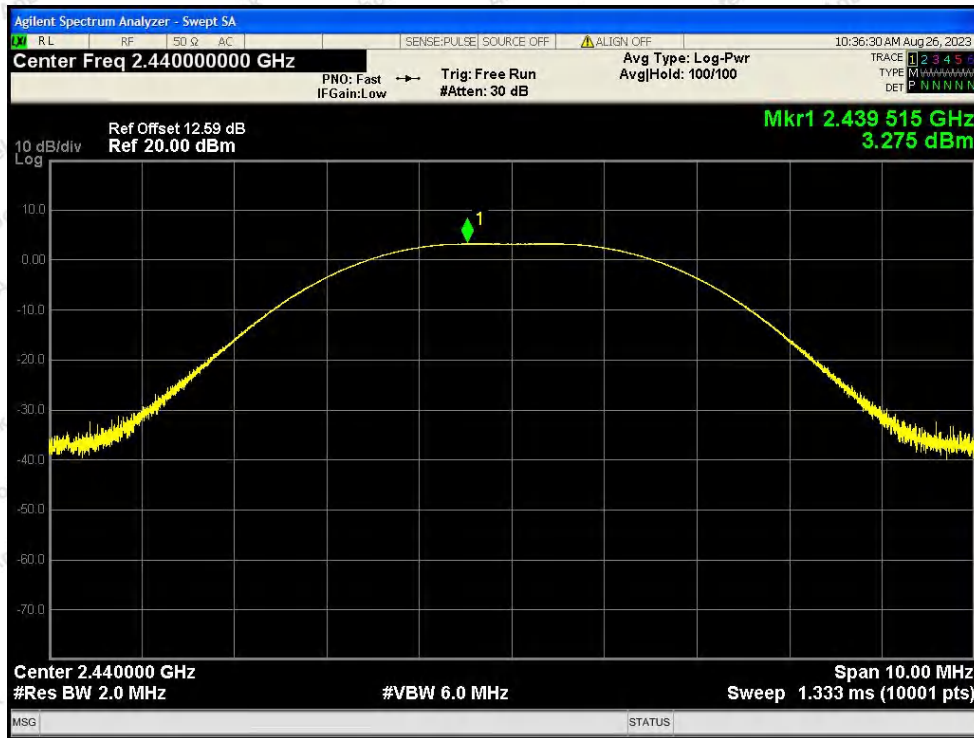
Peak Power NVNT BLE 1M 2480MHz Ant1



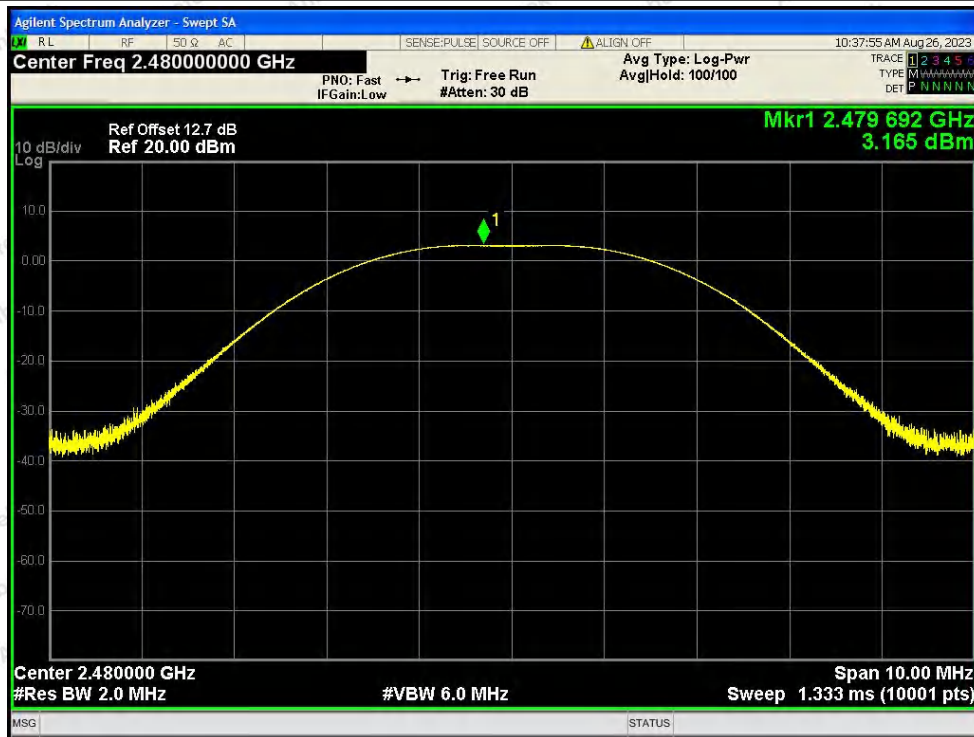
Peak Power NVNT BLE 2M 2402MHz Ant1



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 (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.86	2.08	2.94	0.00197	30	Pass
NVNT	BLE 1M	2440	Ant1	0.7	2.08	2.78	0.0019	30	Pass
NVNT	BLE 1M	2480	Ant1	0.69	2.13	2.82	0.00191	30	Pass
NVNT	BLE 2M	2402	Ant1	0.72	2.45	3.17	0.00207	30	Pass
NVNT	BLE 2M	2440	Ant1	0.51	2.45	2.96	0.00198	30	Pass
NVNT	BLE 2M	2480	Ant1	0.25	2.42	2.67	0.00185	30	Pass

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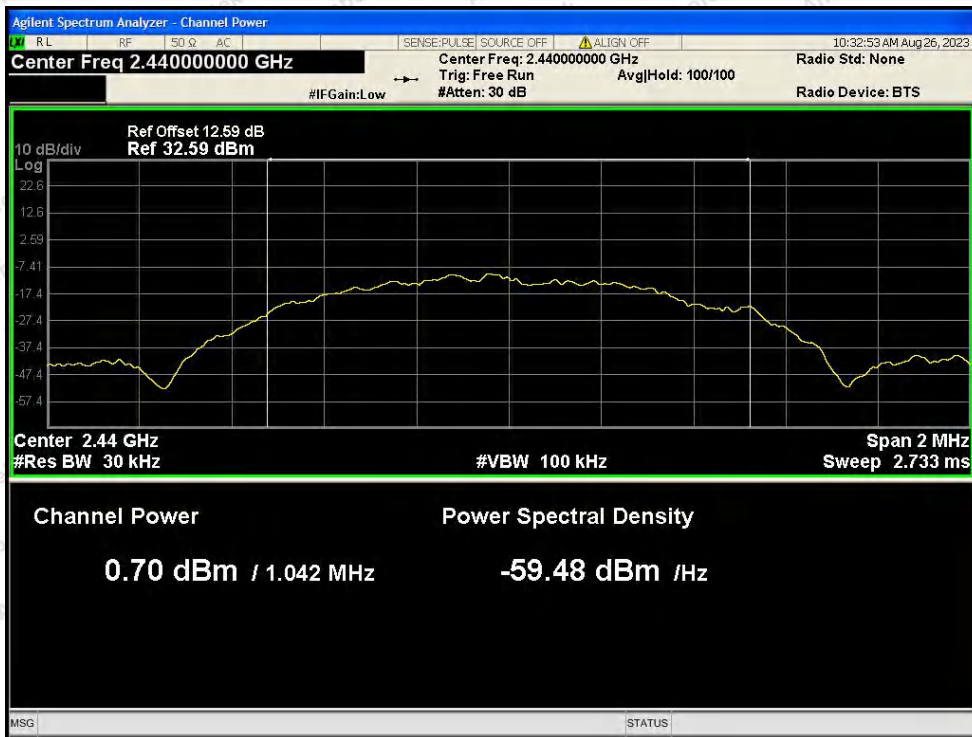


Test Graphs

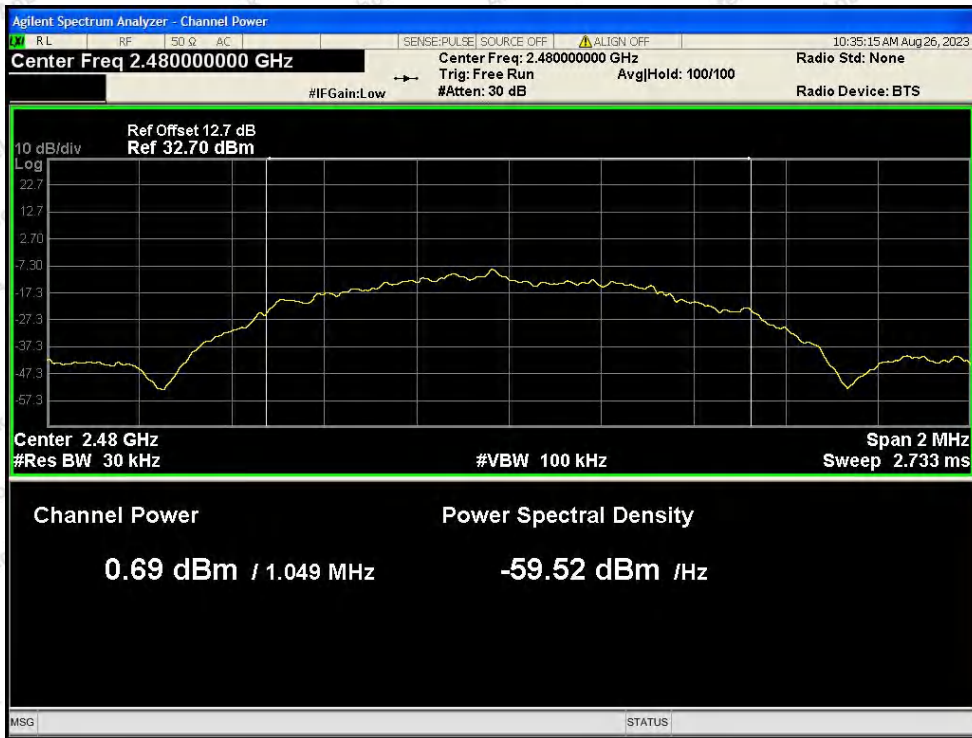
Average Power NVNT BLE 1M 2402MHz Ant1



Average Power NVNT BLE 1M 2440MHz Ant1



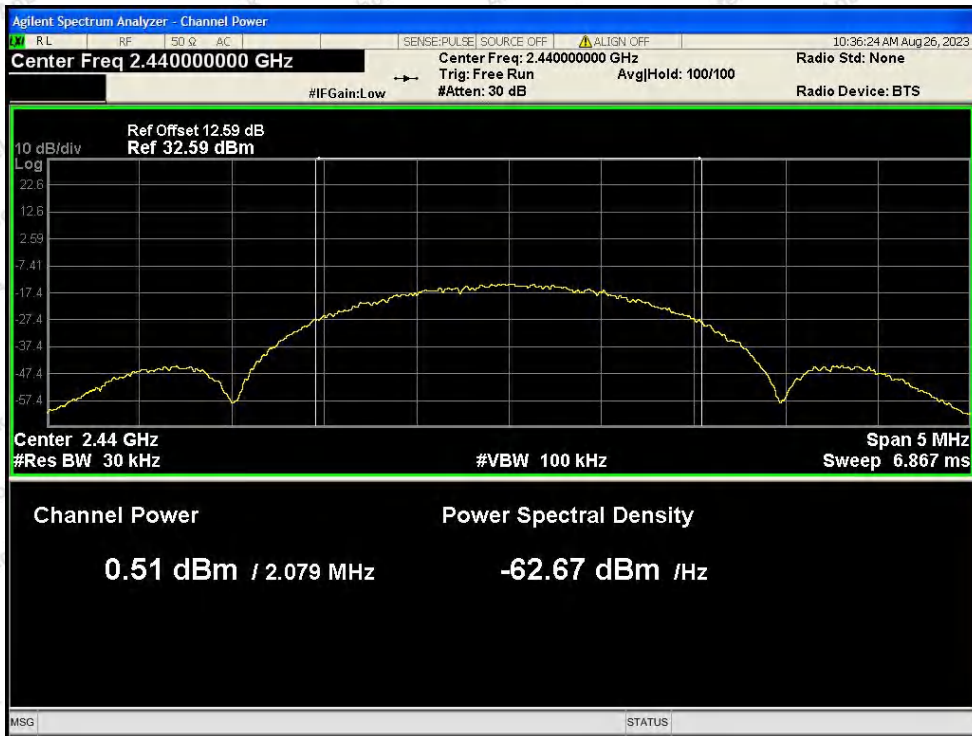
Average Power NVNT BLE 1M 2480MHz Ant1



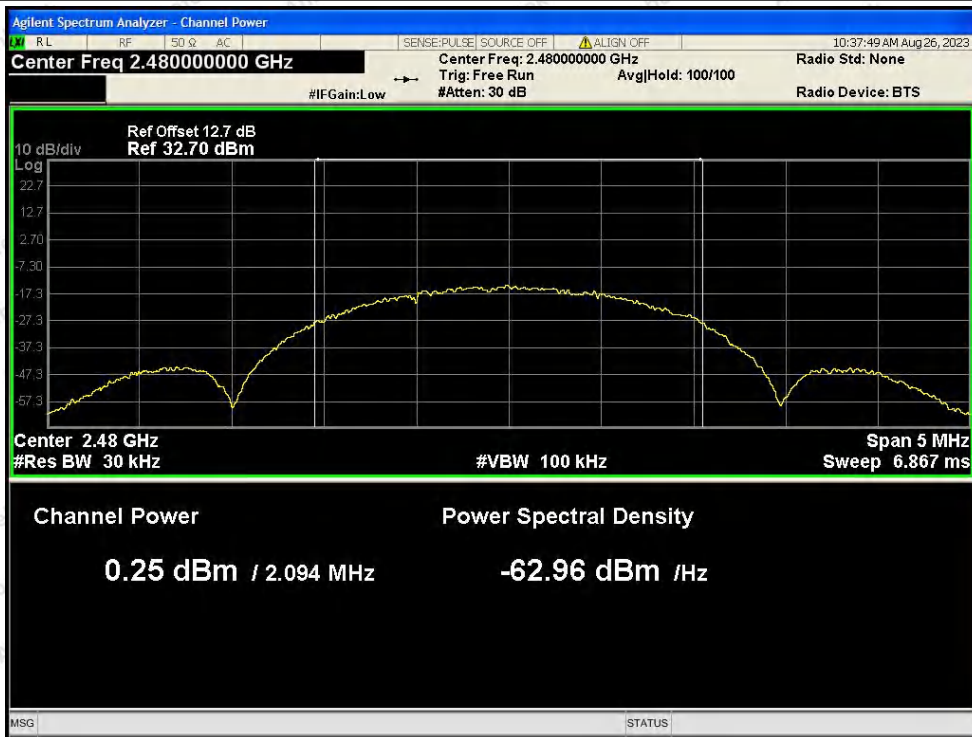
Average Power NVNT BLE 2M 2402MHz Ant1



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	0.678	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.709	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.703	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.217	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.142	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.134	0.5	Pass

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Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



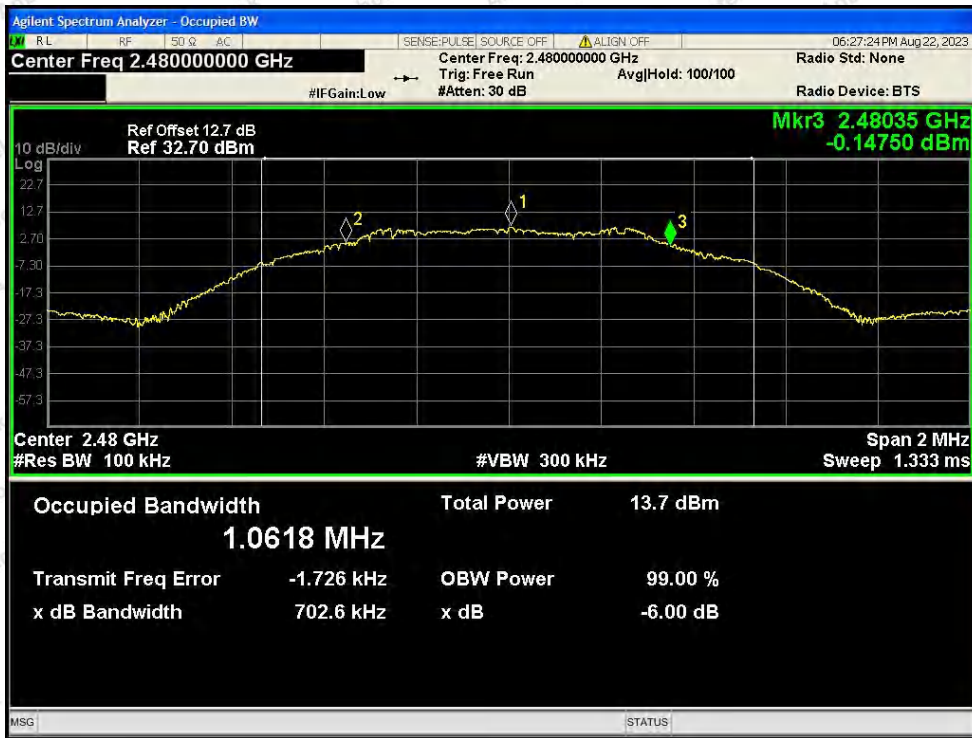
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-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



Conducted Spurious Emissions

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-32.18	-20	Pass
NVNT	BLE 1M	2440	Ant1	-31.3	-20	Pass
NVNT	BLE 1M	2480	Ant1	-30.54	-20	Pass
NVNT	BLE 2M	2402	Ant1	-31.4	-20	Pass
NVNT	BLE 2M	2440	Ant1	-31.21	-20	Pass
NVNT	BLE 2M	2480	Ant1	-30.83	-20	Pass

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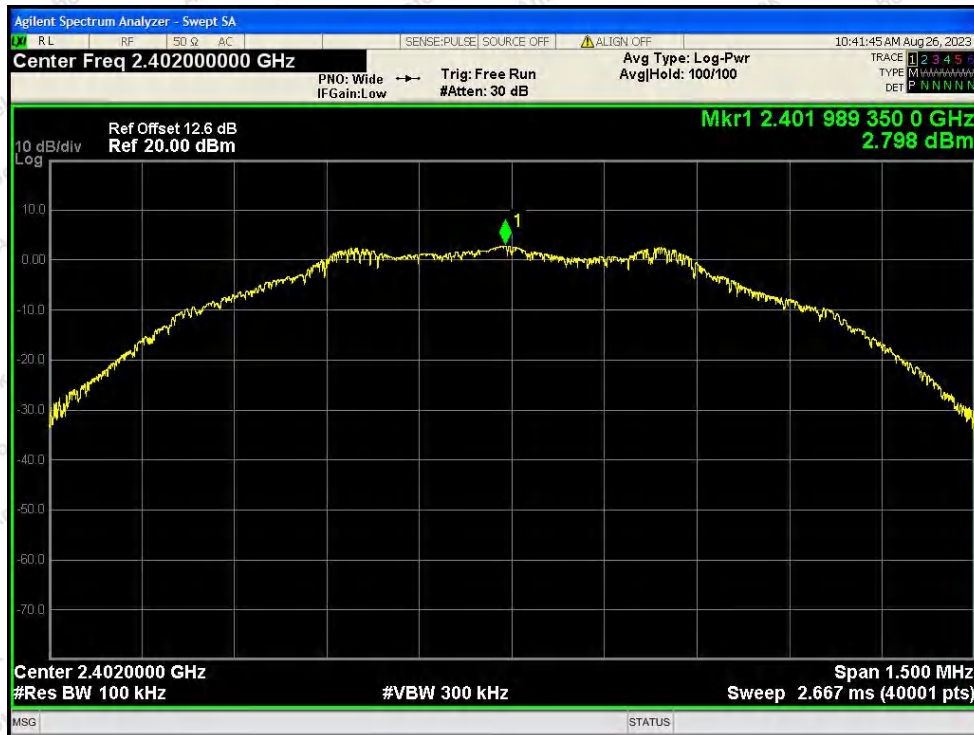


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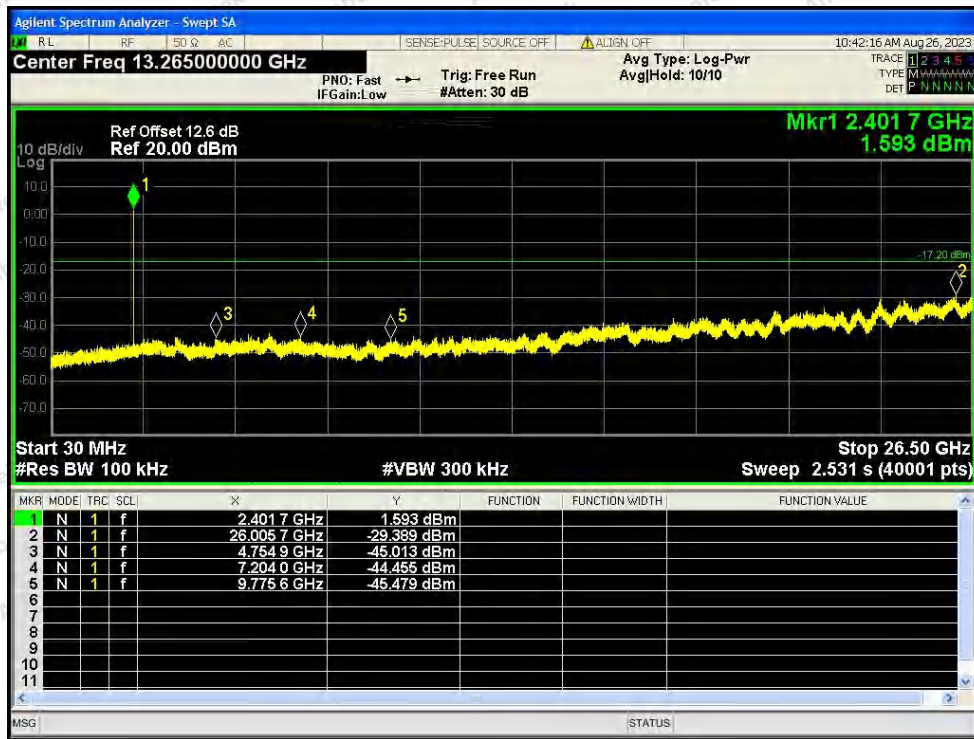


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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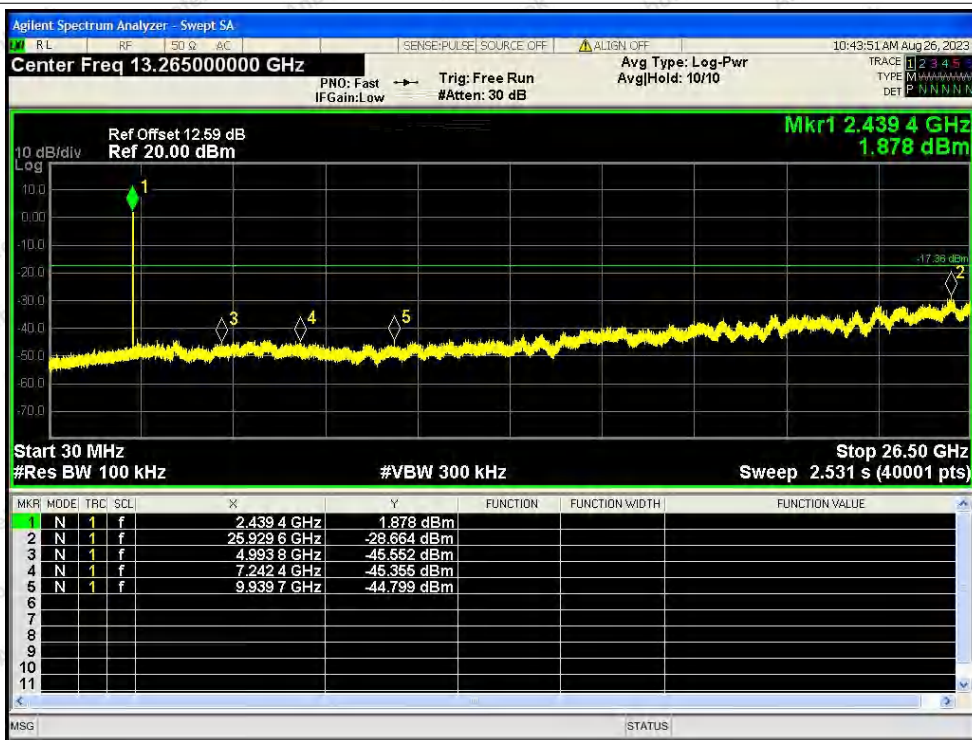
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



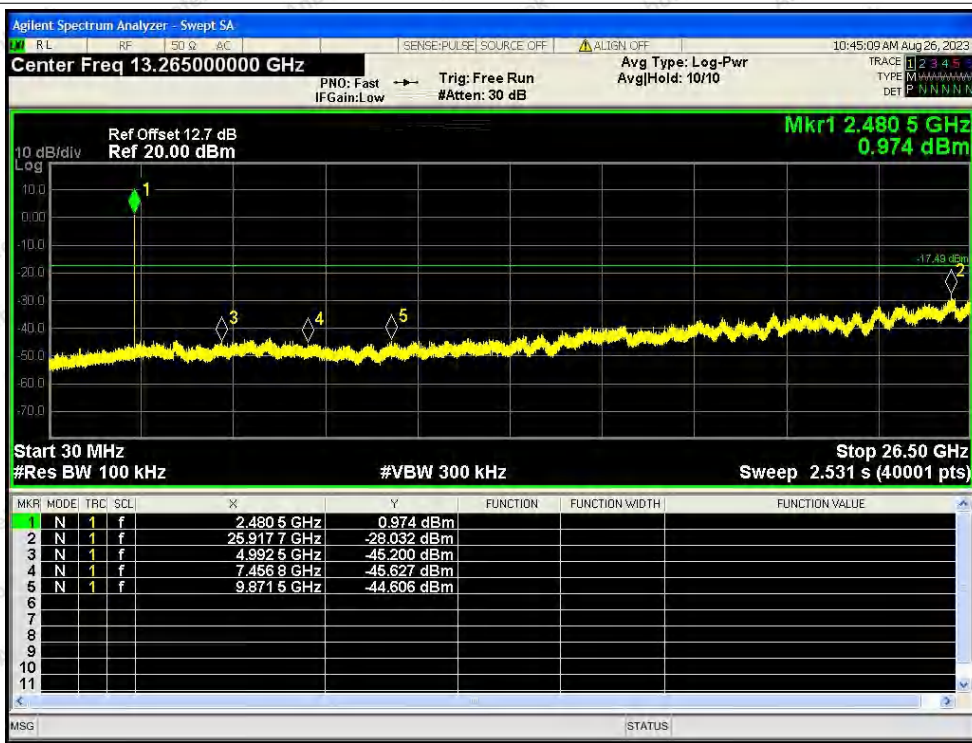
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



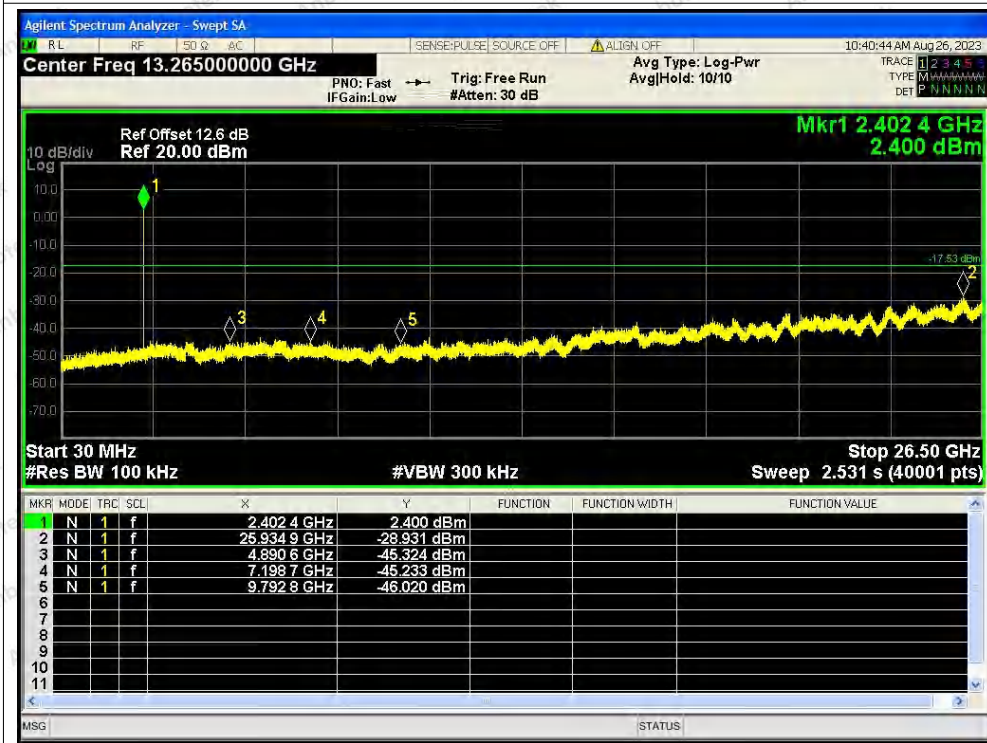
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



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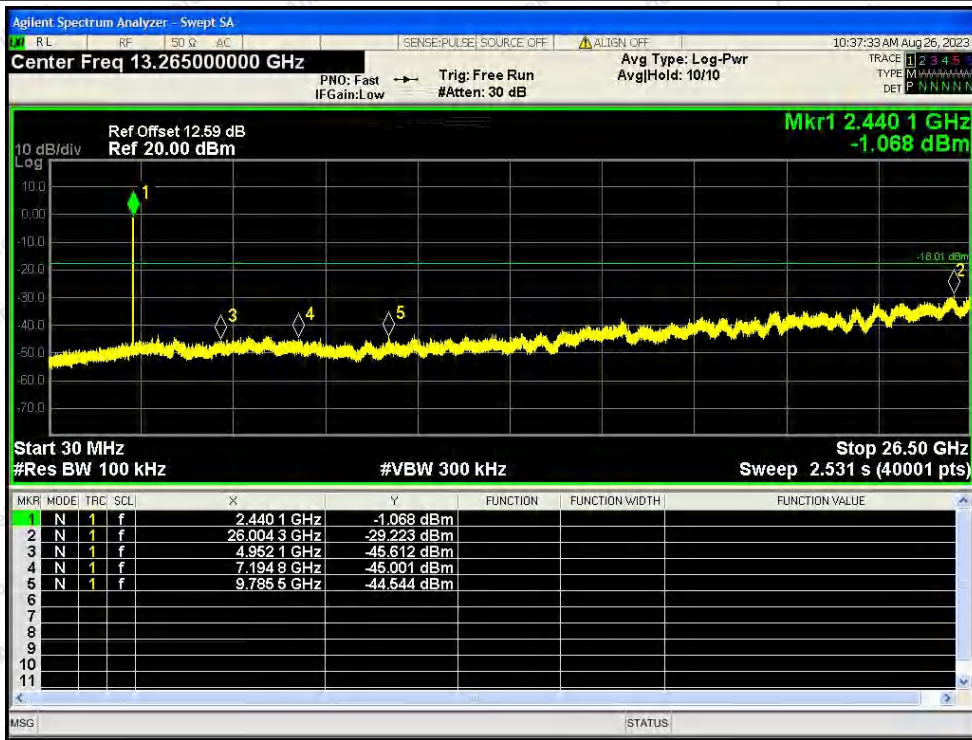
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Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



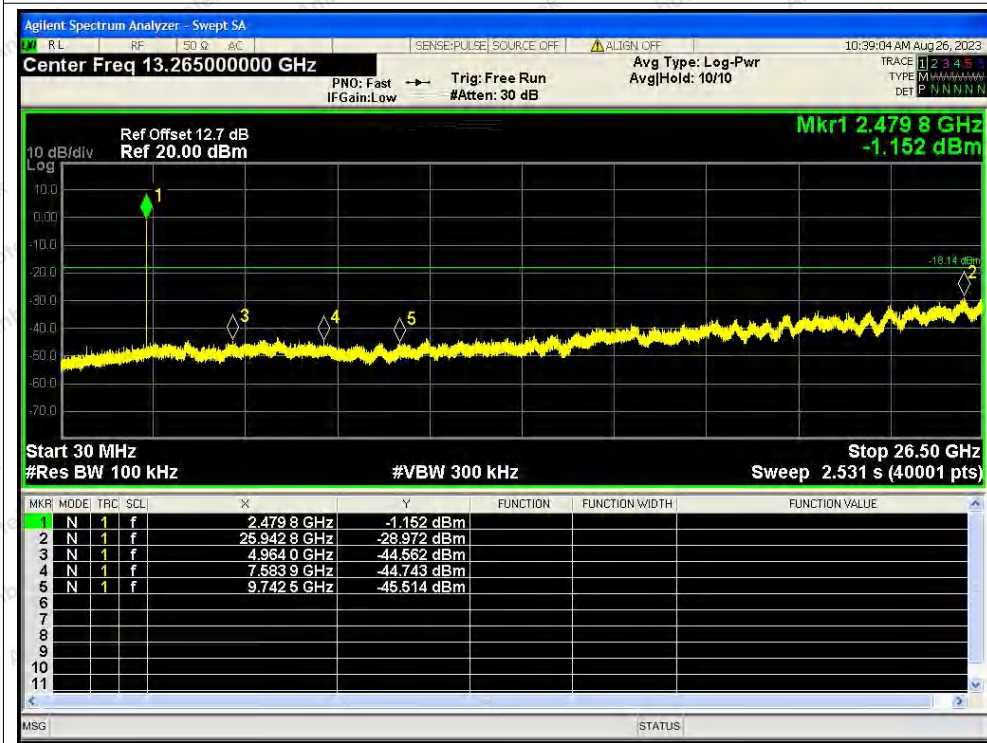
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



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Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-49.12	-20	Pass
NVNT	BLE 1M	2480	Ant1	-49.23	-20	Pass
NVNT	BLE 2M	2402	Ant1	-31.34	-20	Pass
NVNT	BLE 2M	2480	Ant1	-48.62	-20	Pass

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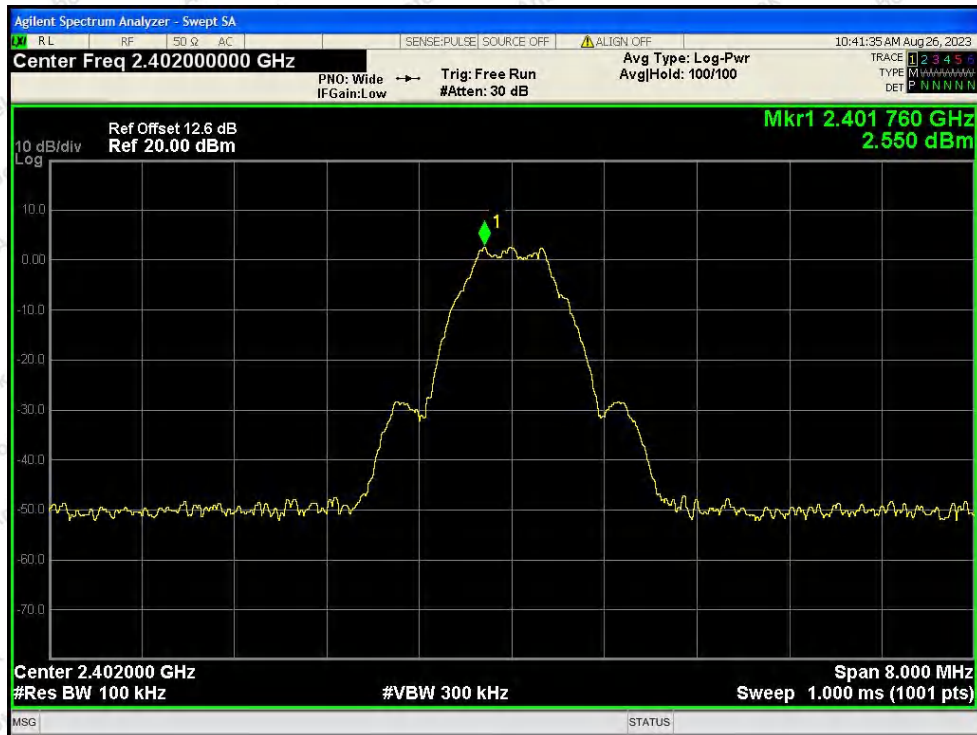


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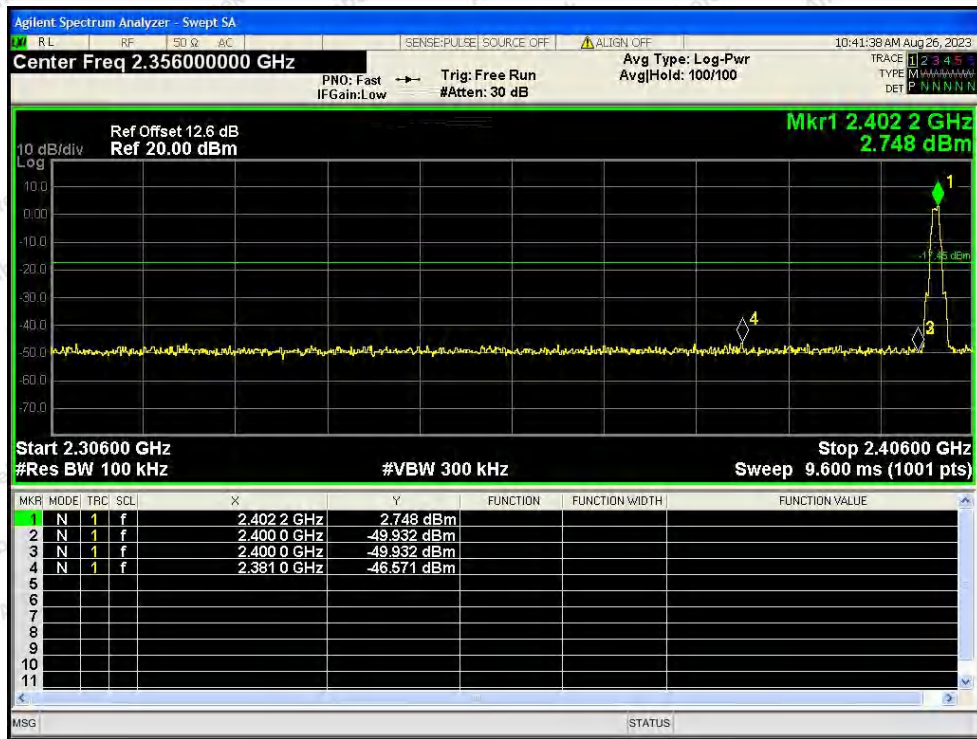


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



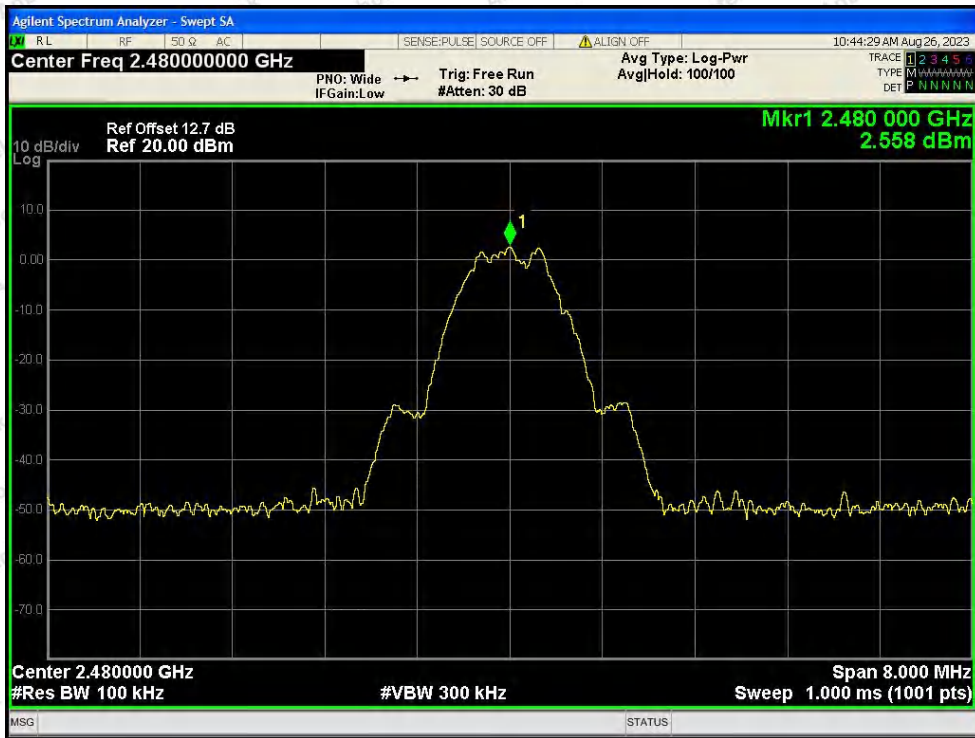
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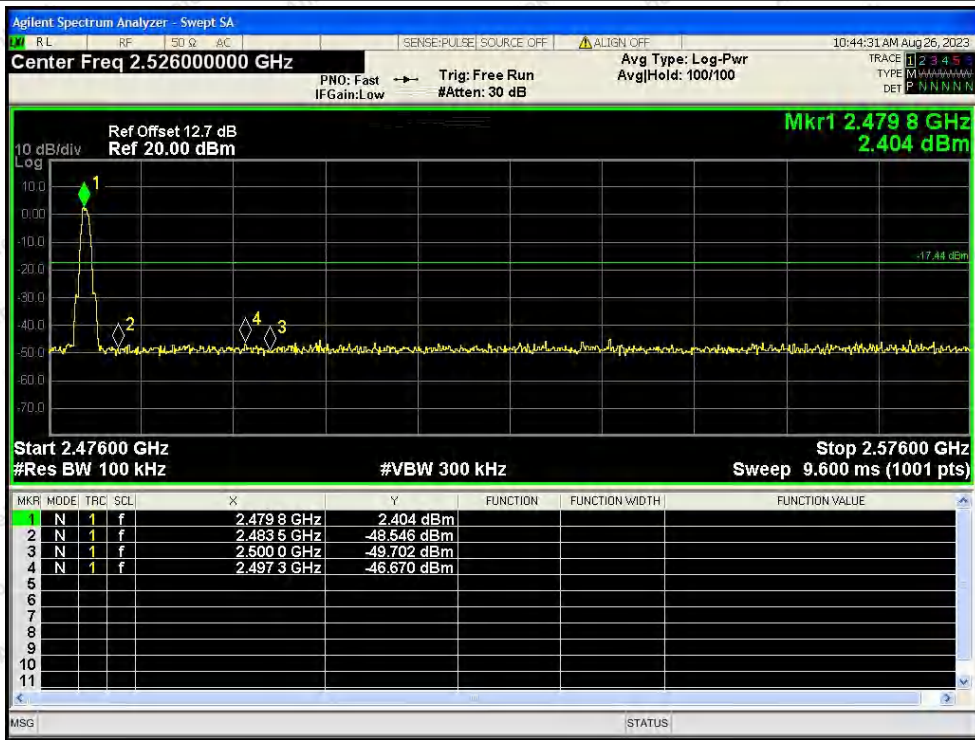
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



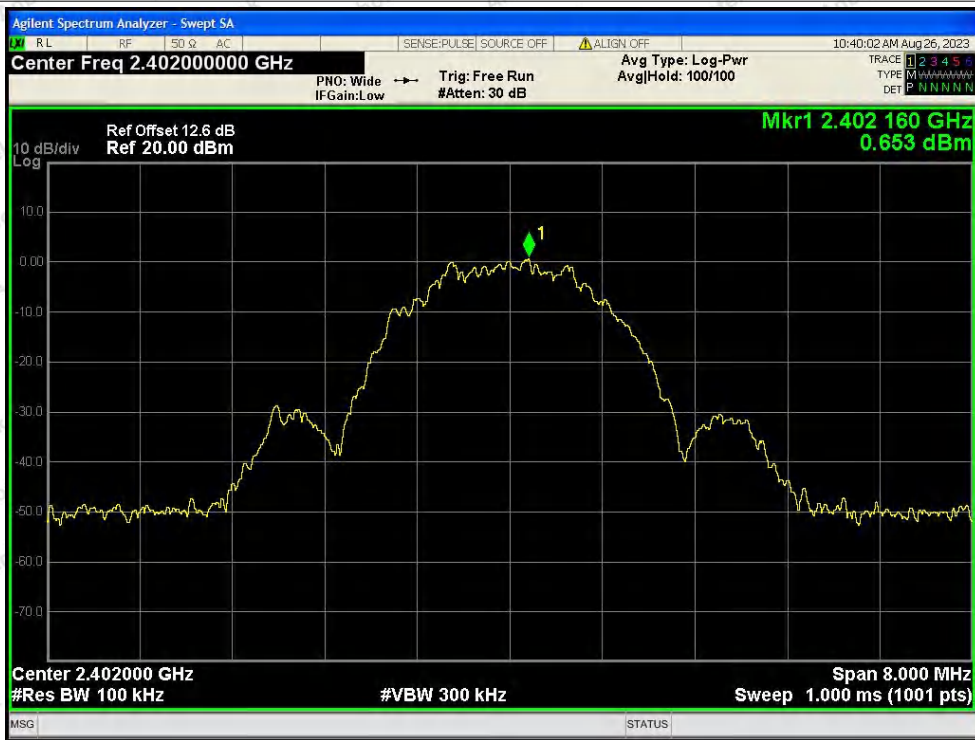
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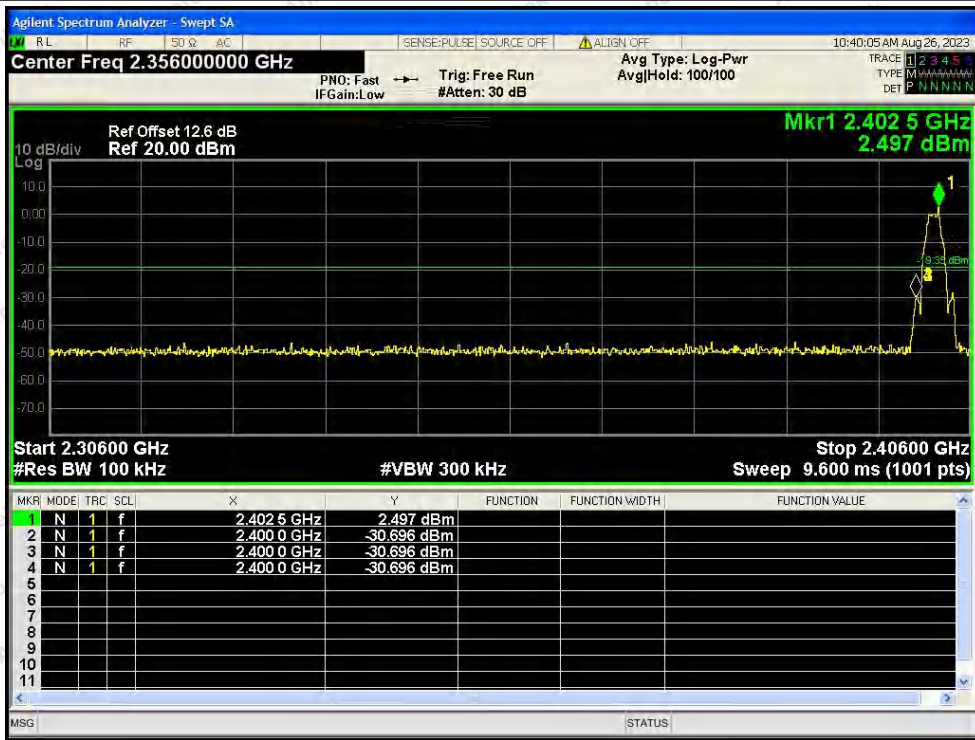
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Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



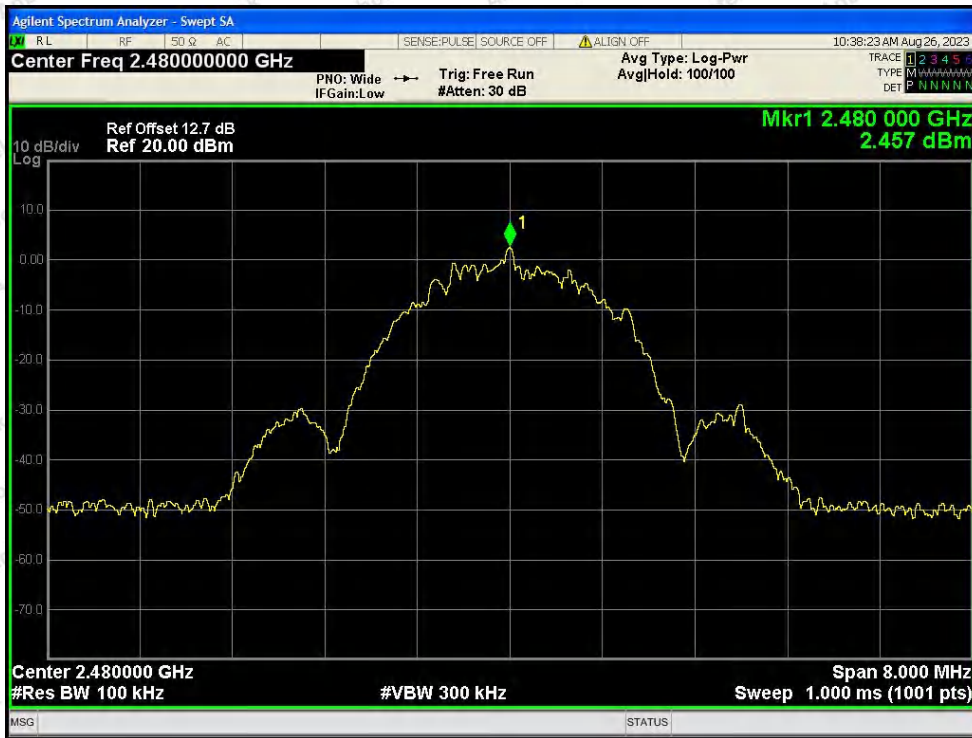
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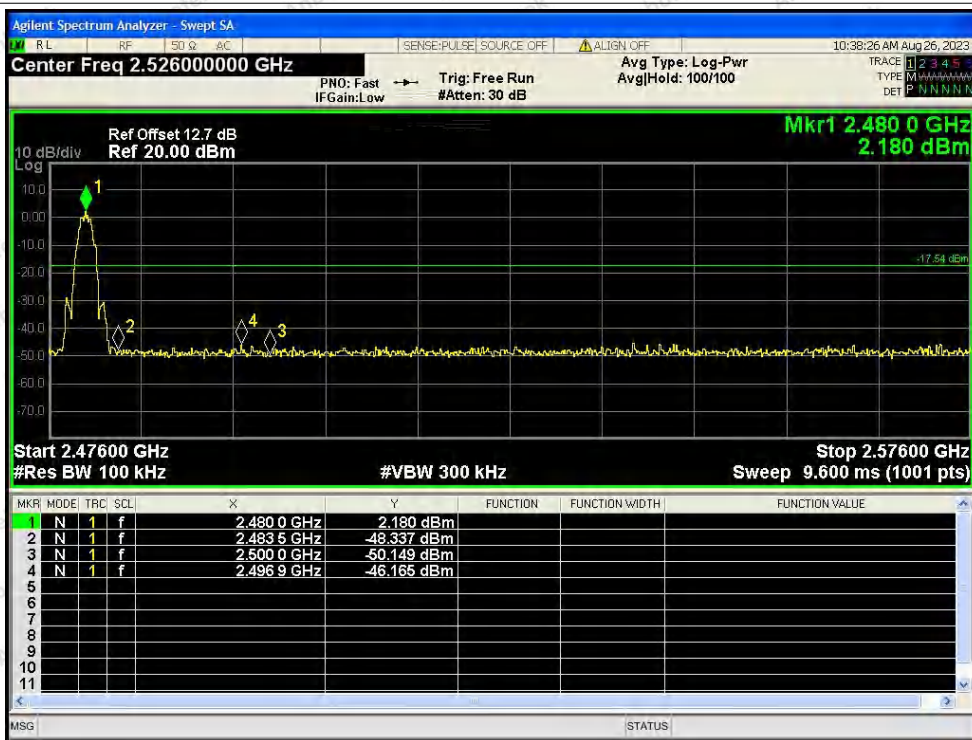
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Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



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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	-11.43	0	-11.43	8	Pass
NVNT	BLE 1M	2440	Ant1	-11.52	0	-11.52	8	Pass
NVNT	BLE 1M	2480	Ant1	-11.68	0	-11.68	8	Pass
NVNT	BLE 2M	2402	Ant1	-15.27	0	-15.27	8	Pass
NVNT	BLE 2M	2440	Ant1	-15.41	0	-15.41	8	Pass
NVNT	BLE 2M	2480	Ant1	-15.62	0	-15.62	8	Pass

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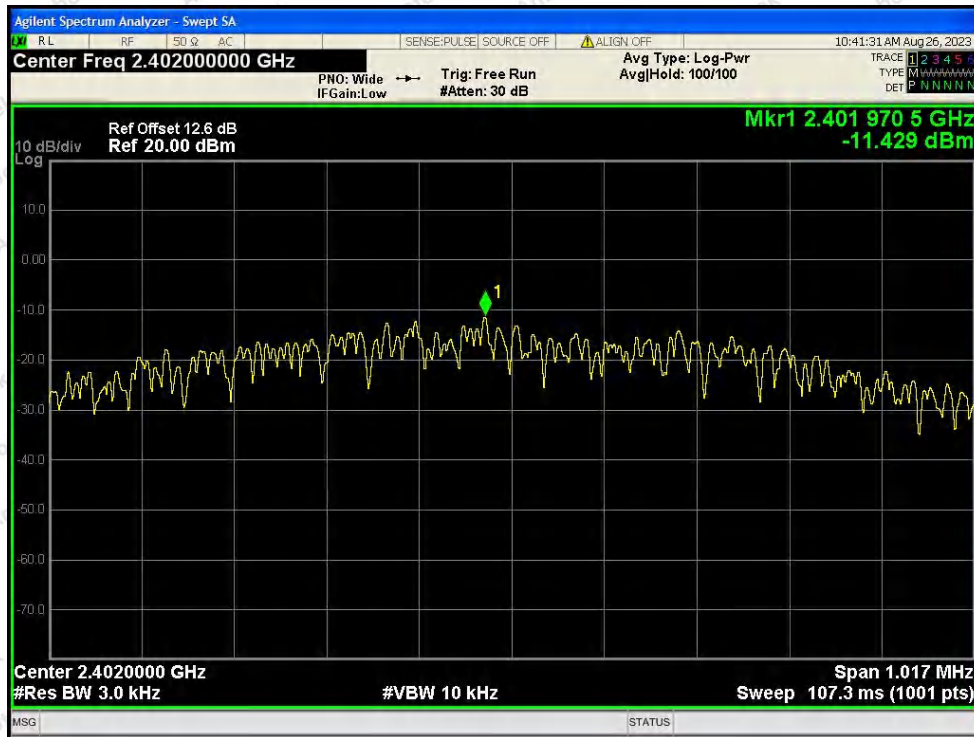


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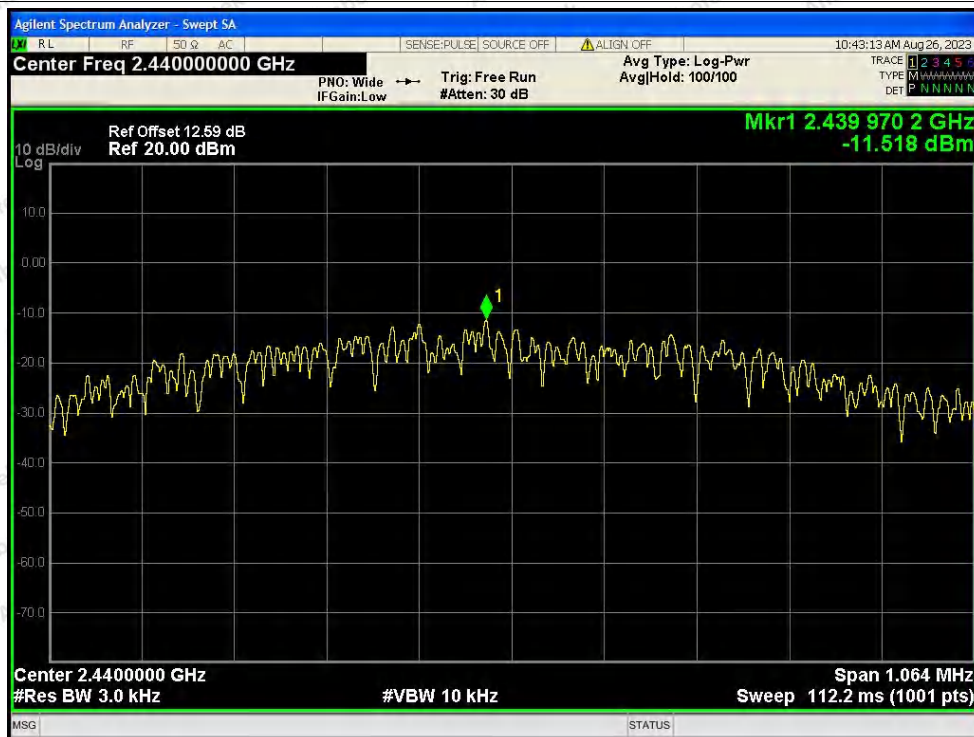


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

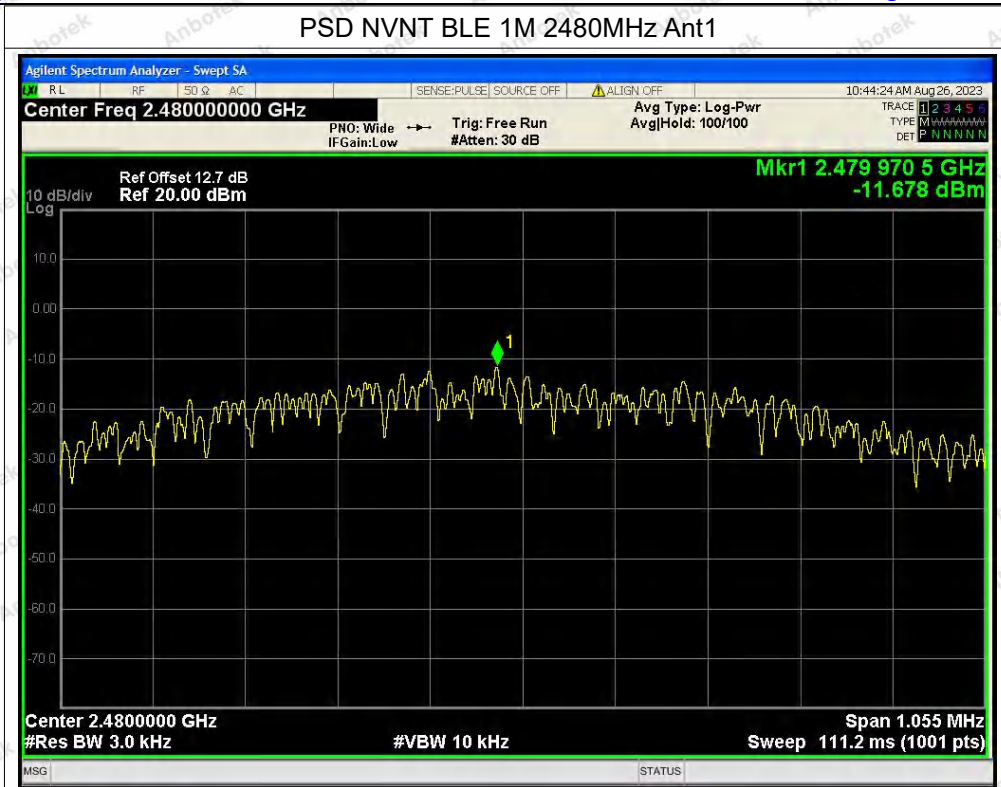


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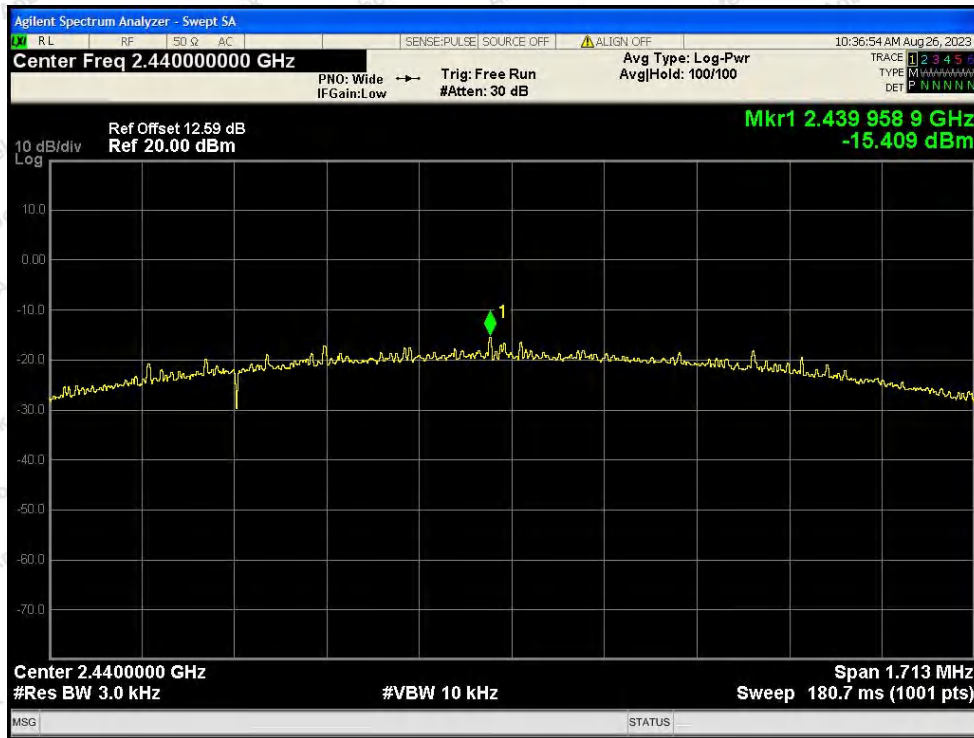
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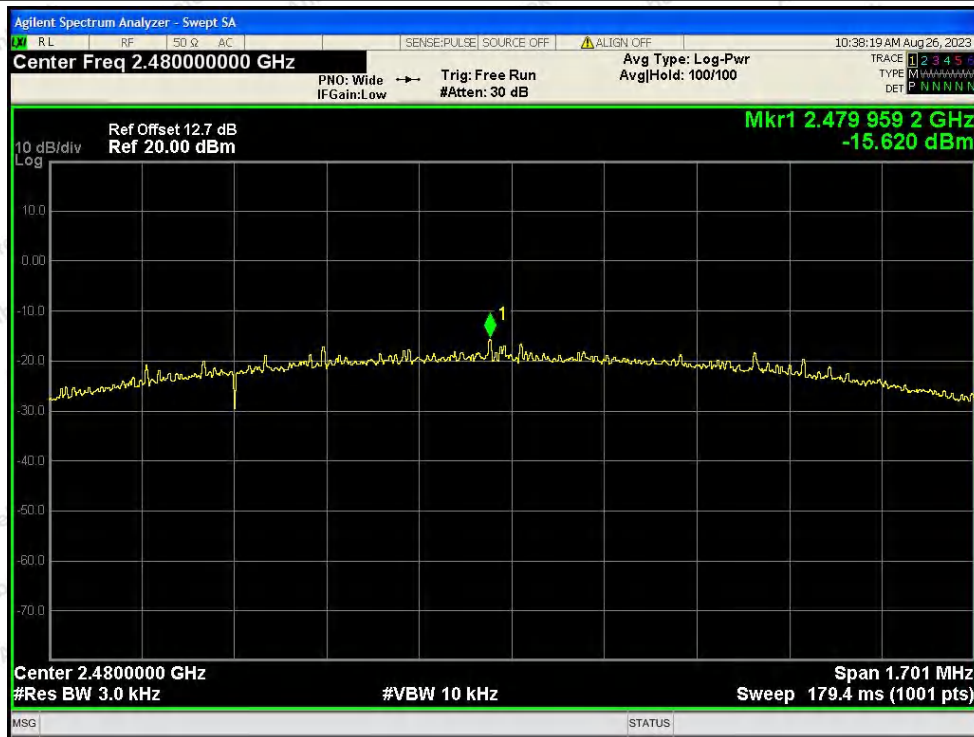
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---End---

