



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Electronic Drum Kit

Test Model: ED01

Environmental Conditions

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



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B.1 -6dB Bandwidth

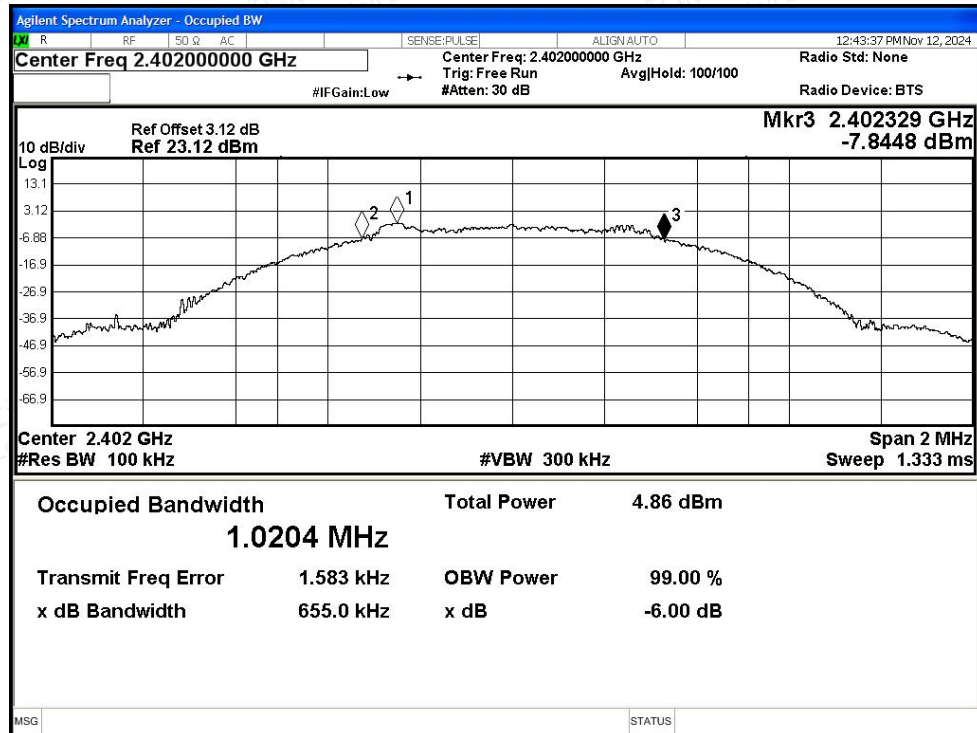
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.655	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.657	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.658	≥ 0.5	Pass



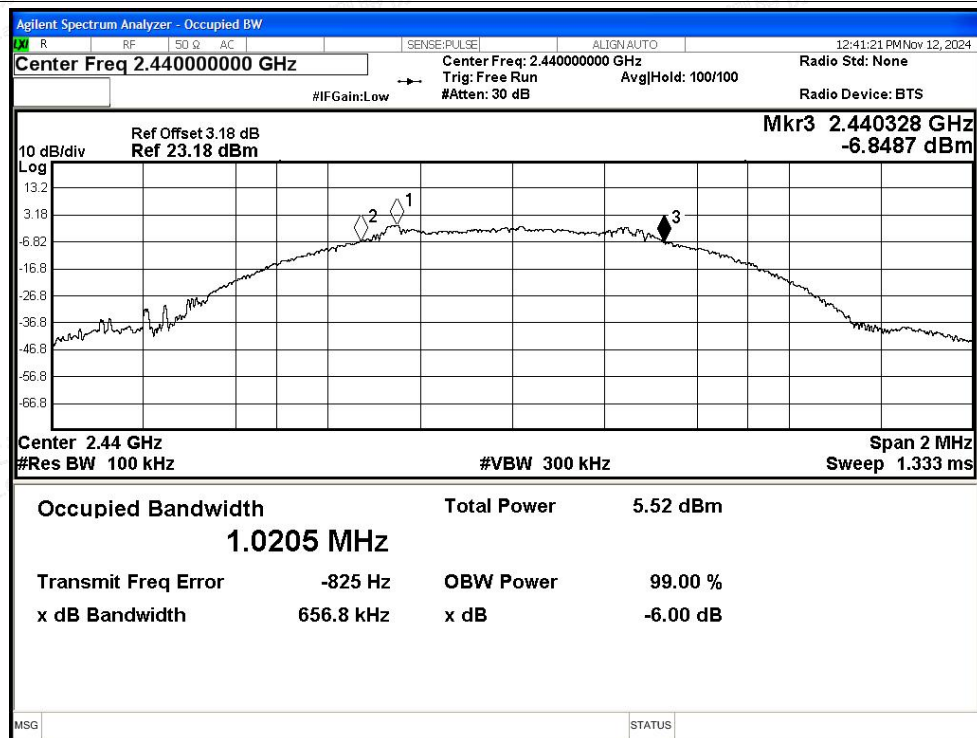


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



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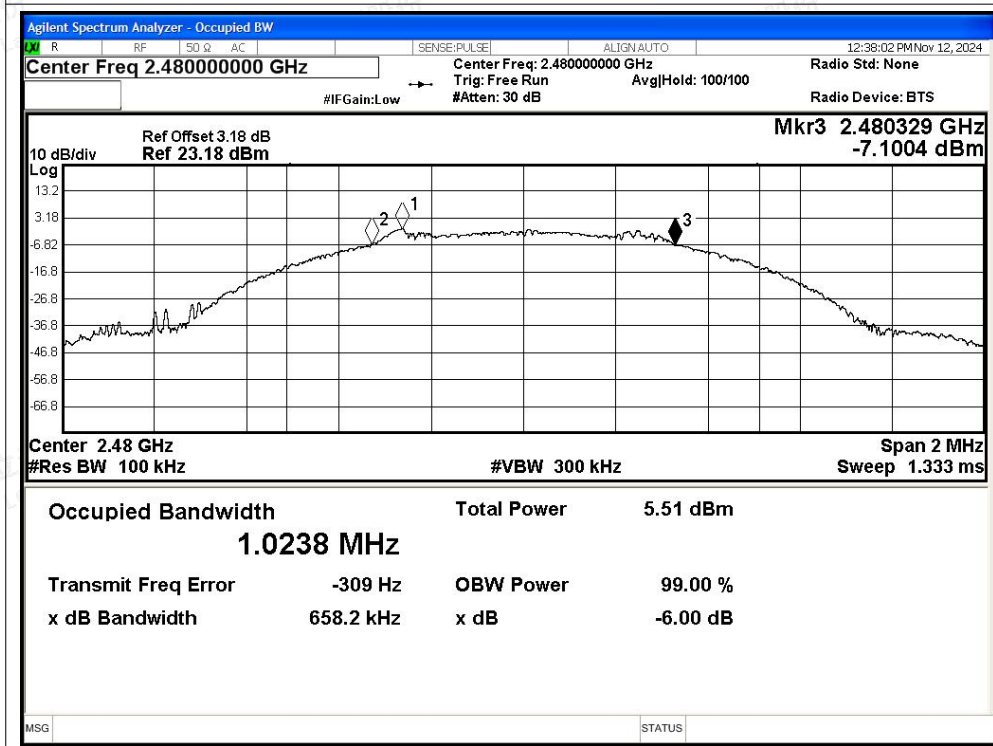
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-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



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B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.93	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.31	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.32	30	Pass



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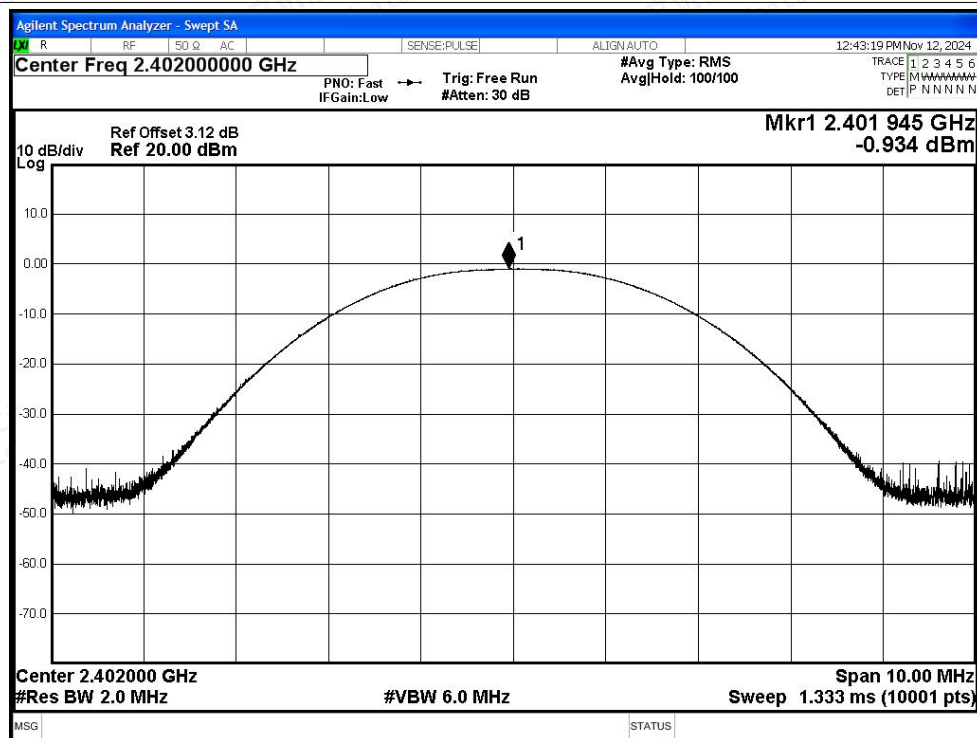
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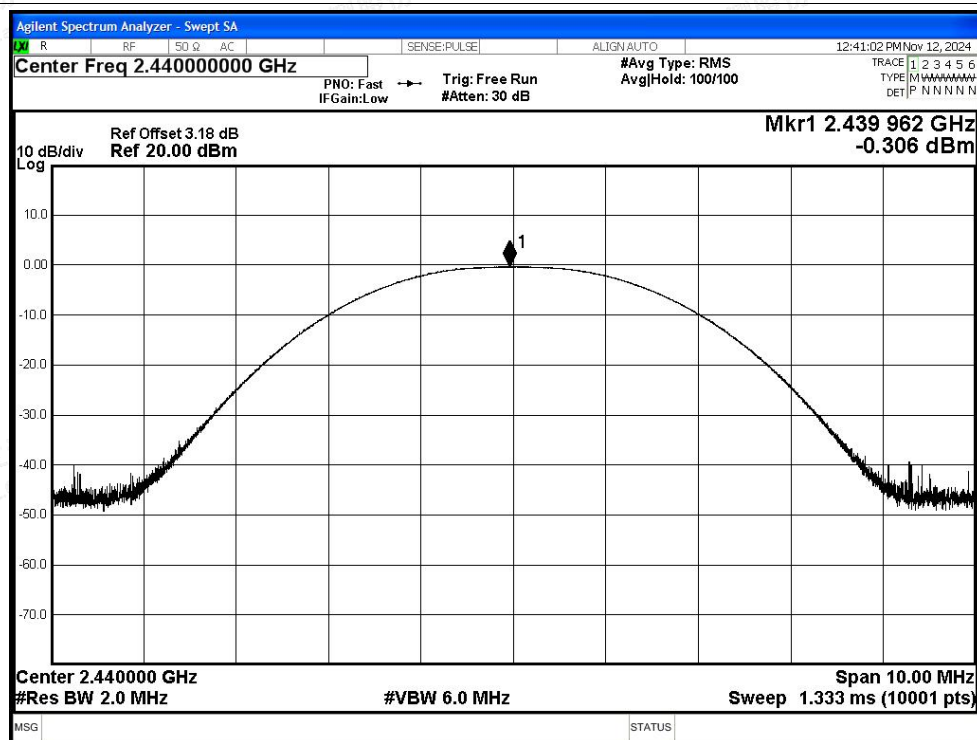


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

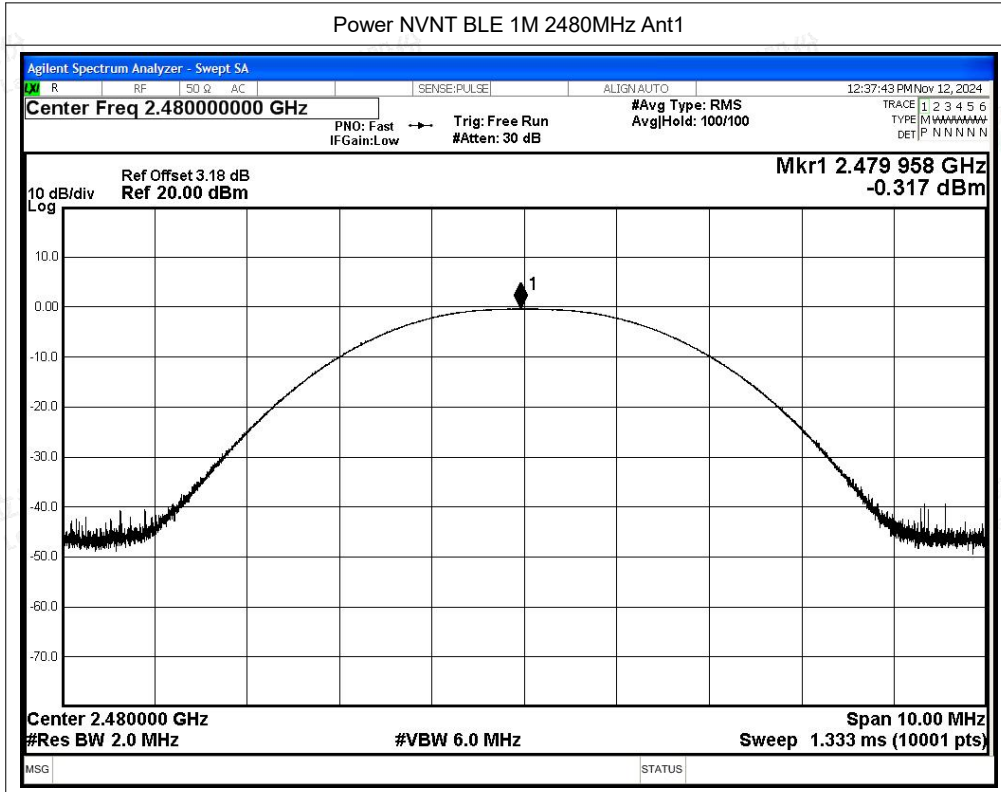


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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-17.75	8	Pass
NVNT	BLE 1M	2440	Ant1	-17.18	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.9	8	Pass

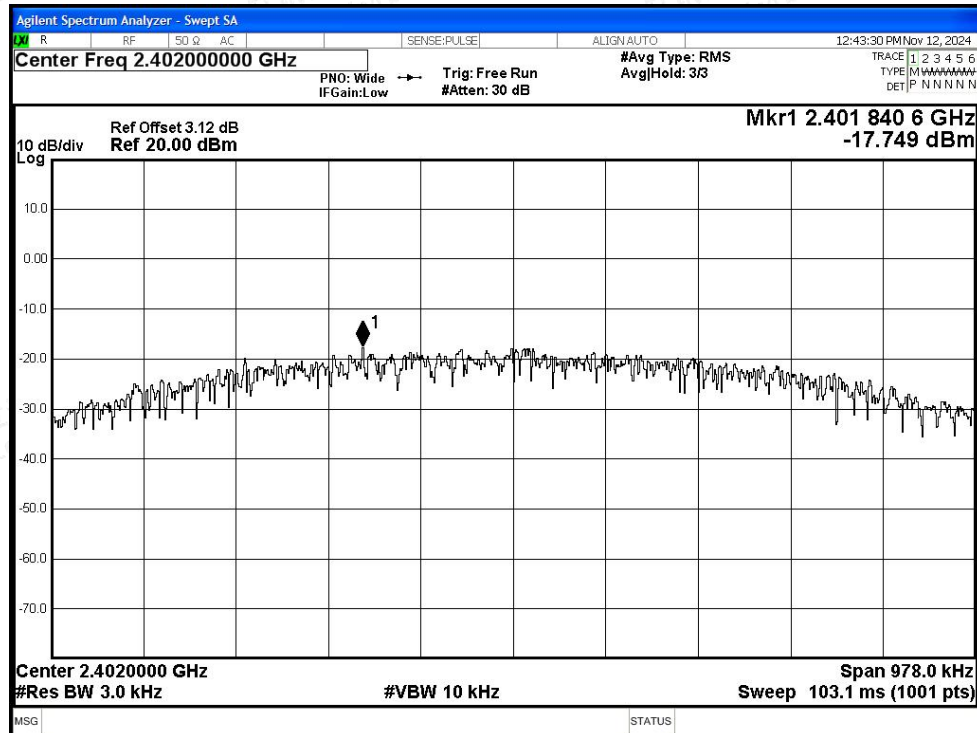


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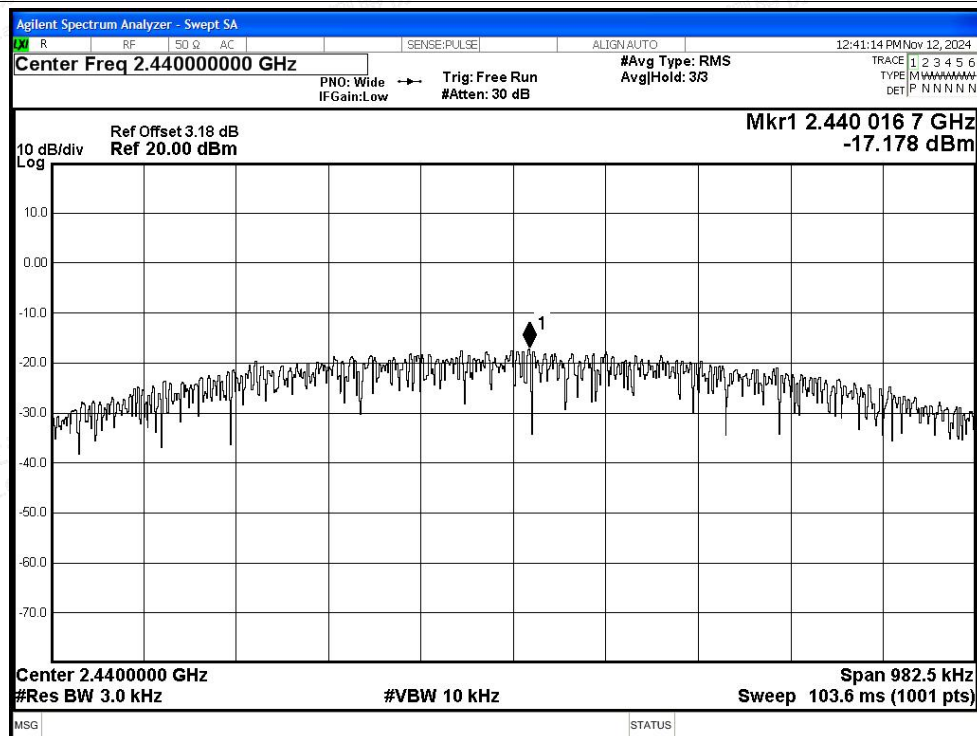


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

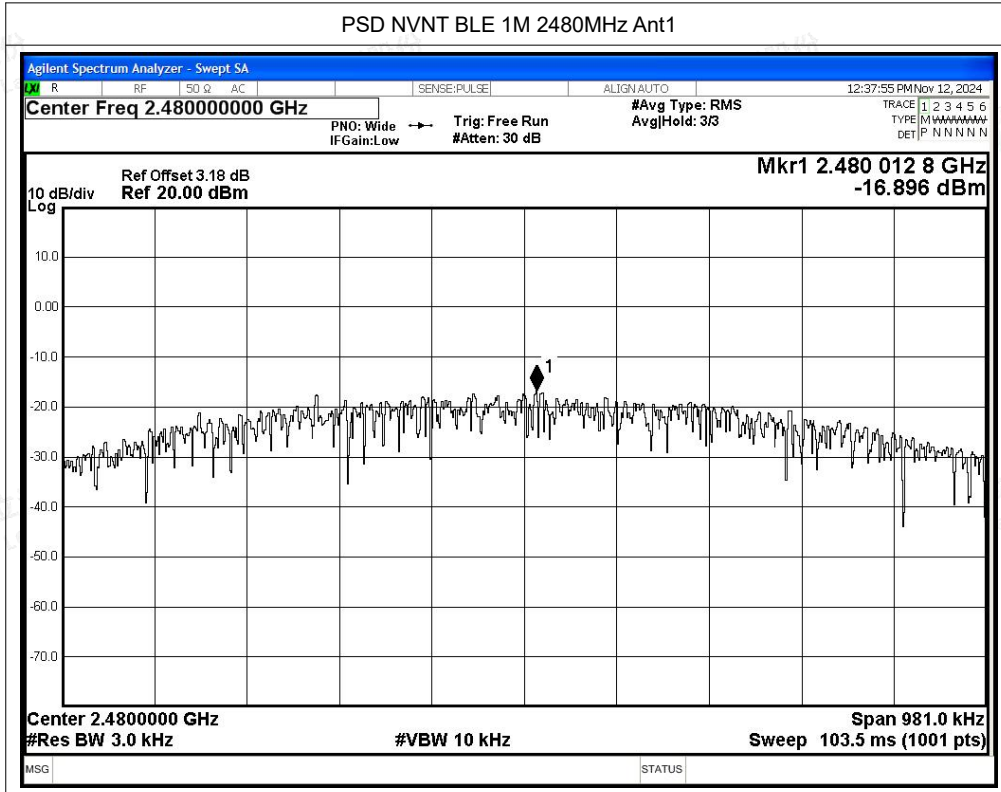


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.1	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.8	-20	Pass

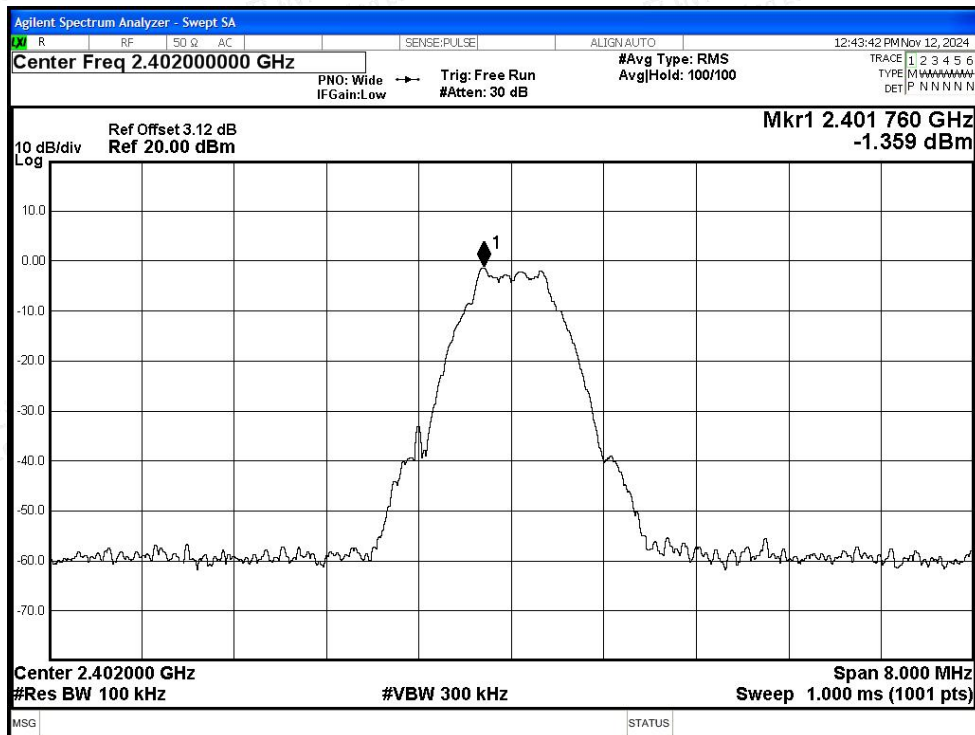


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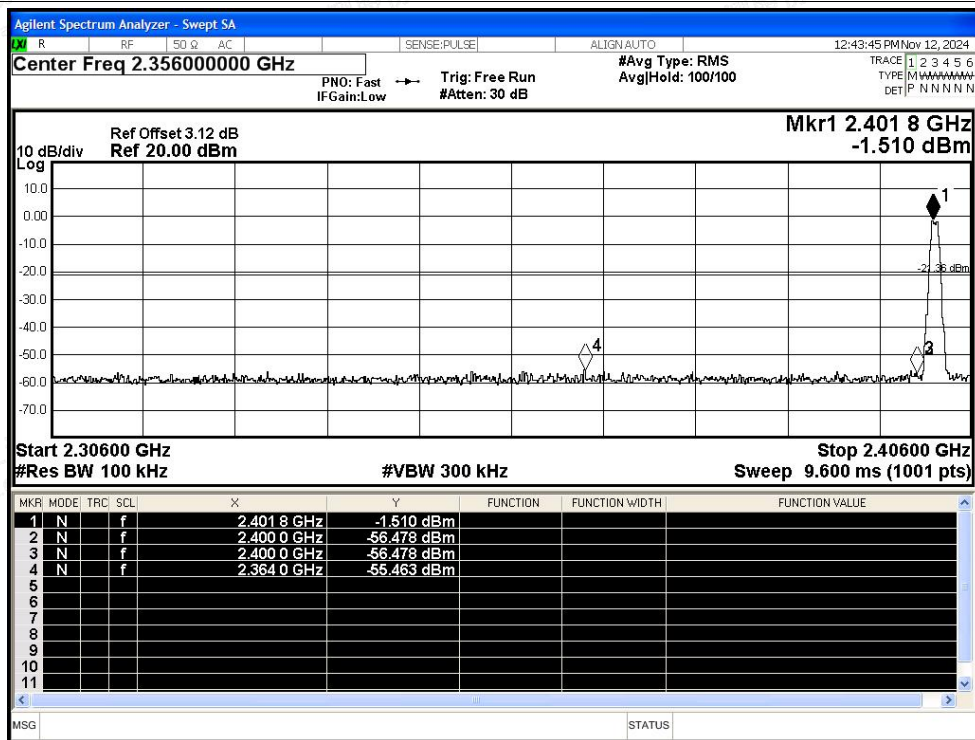


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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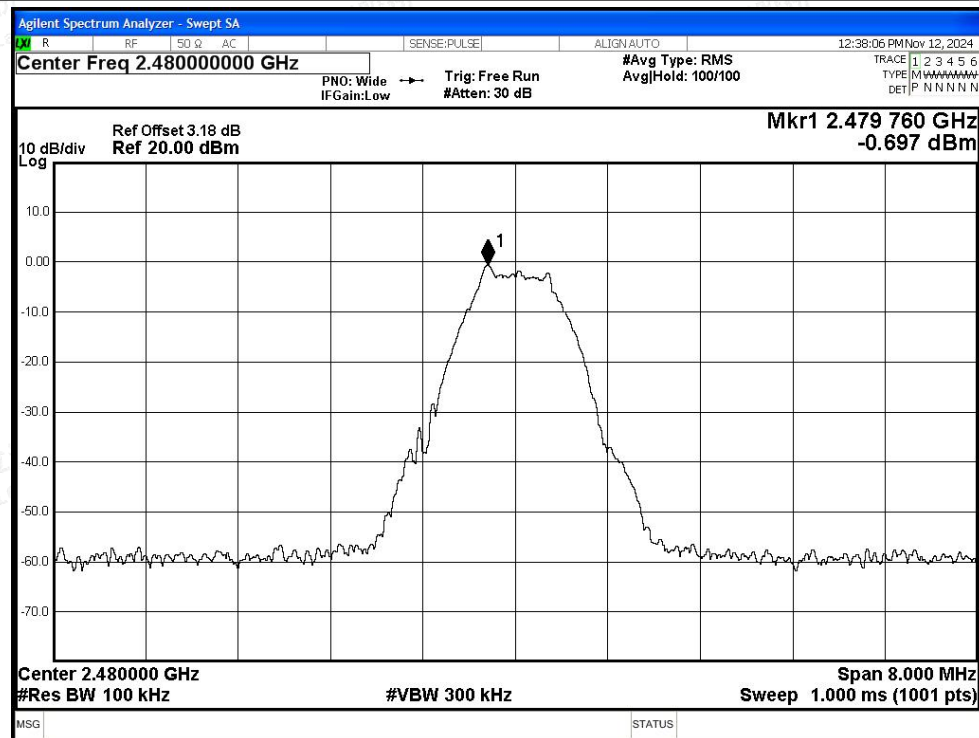
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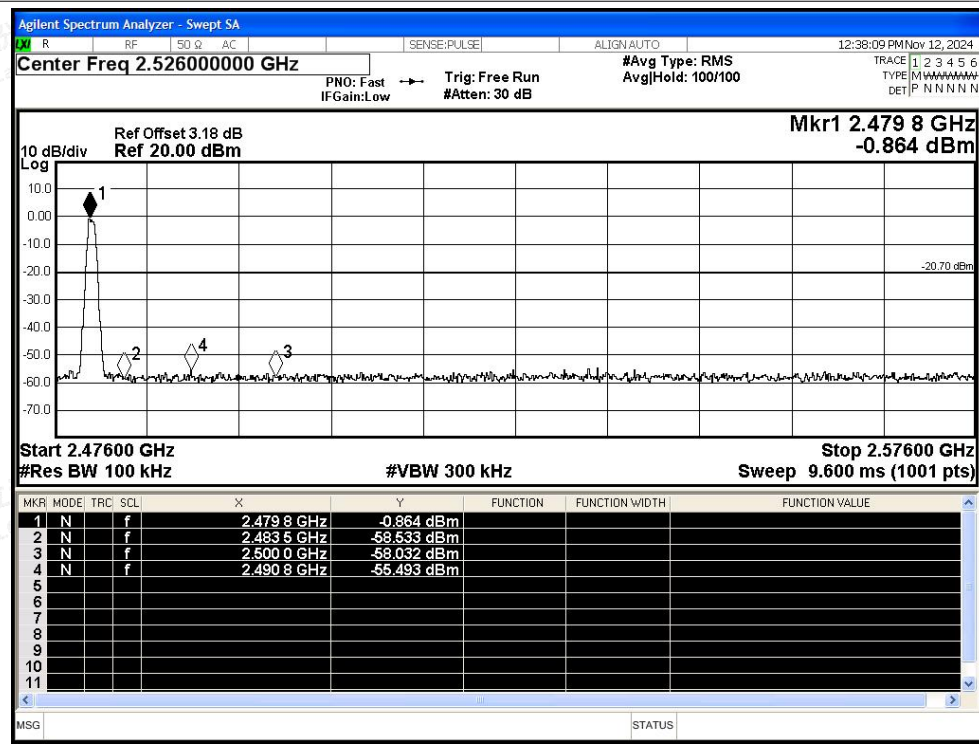
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.86	-20	Pass
NVNT	BLE 1M	2440	Ant1	-53.49	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.38	-20	Pass

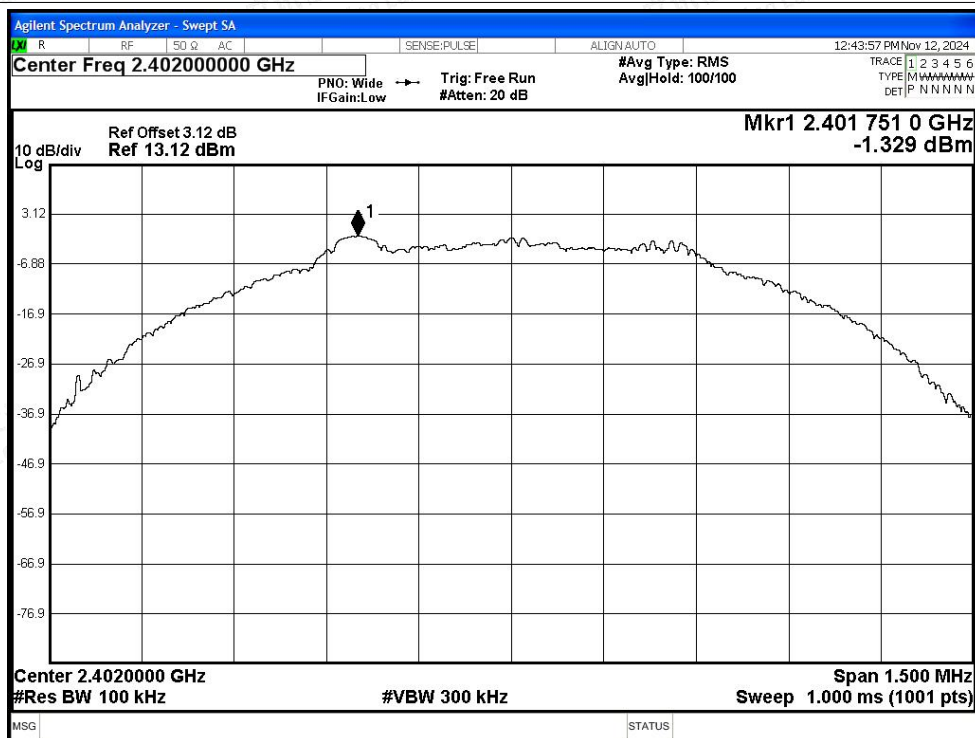


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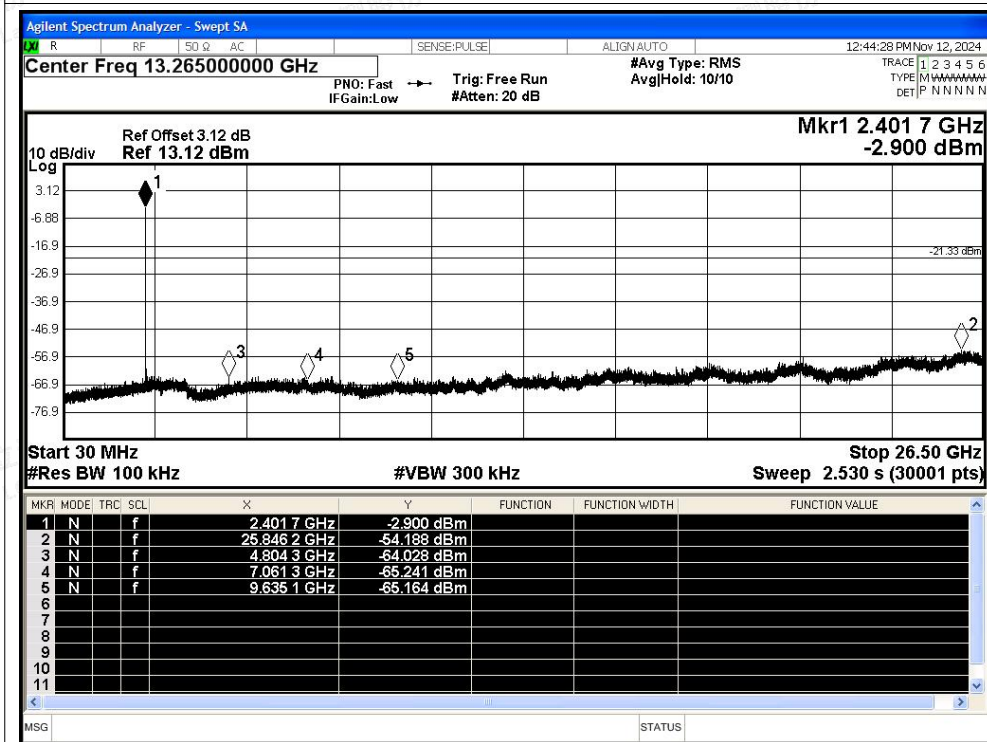


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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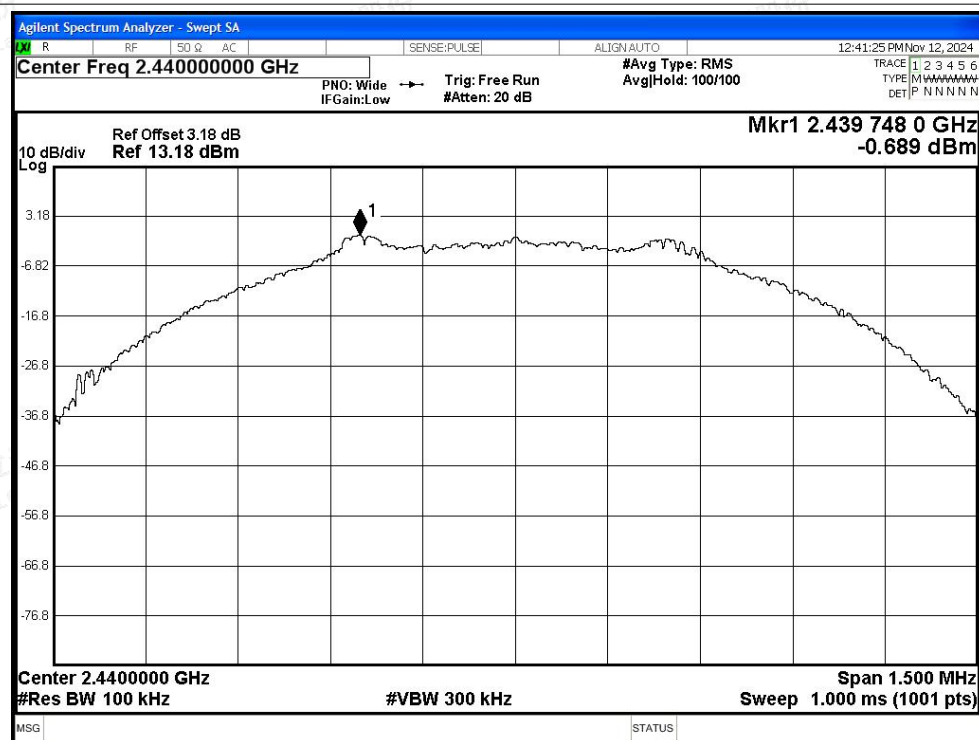
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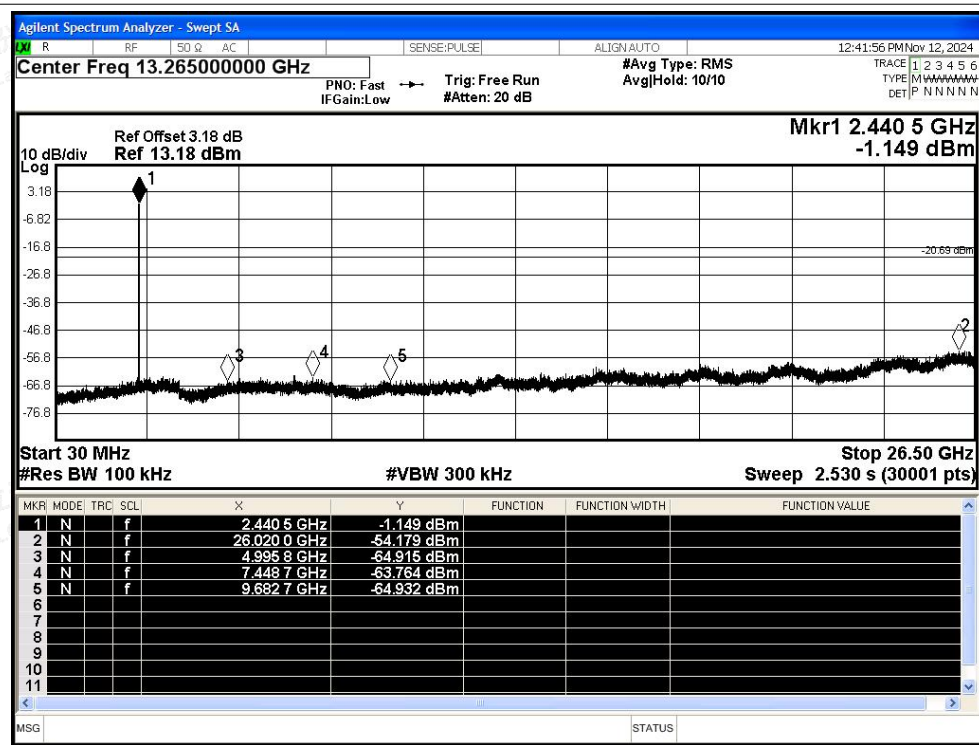
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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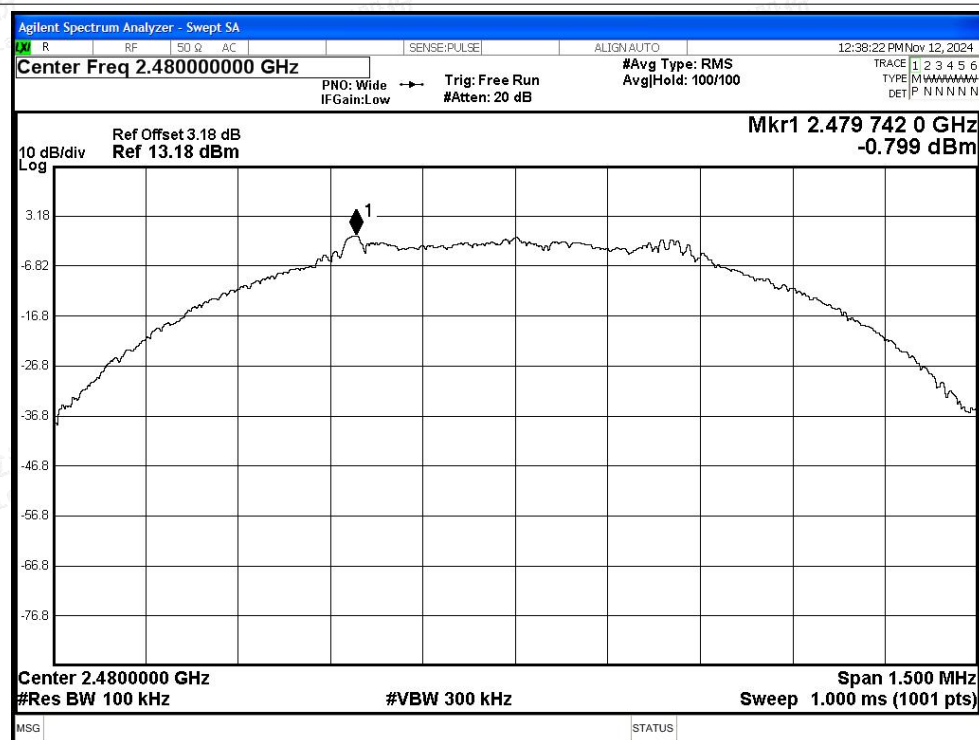
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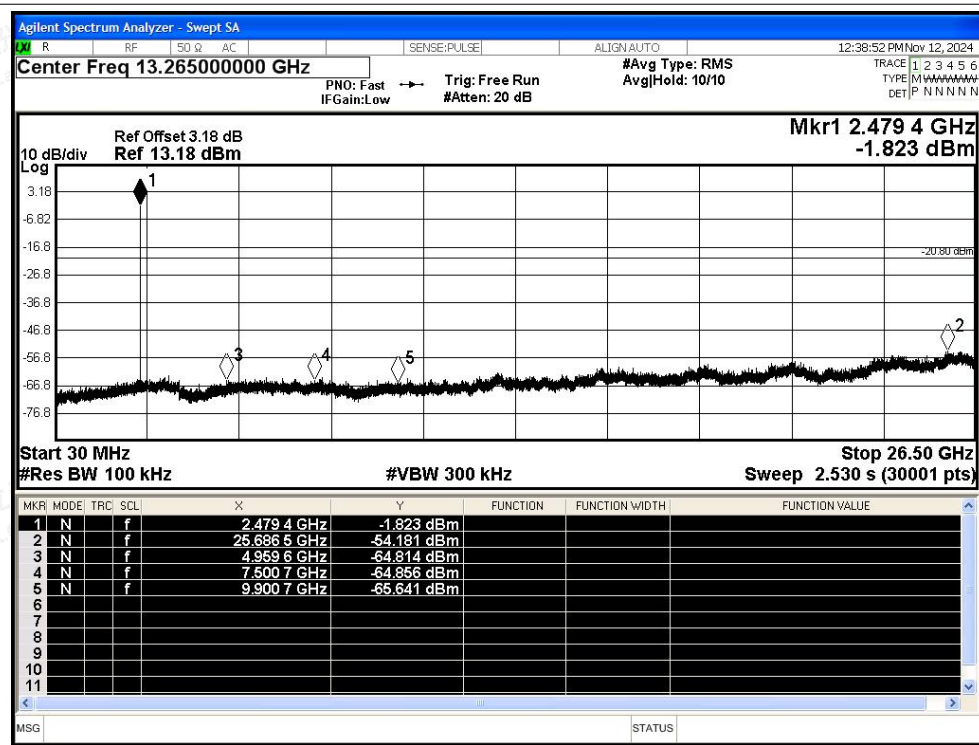
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant1	87.39	0.59	0.61

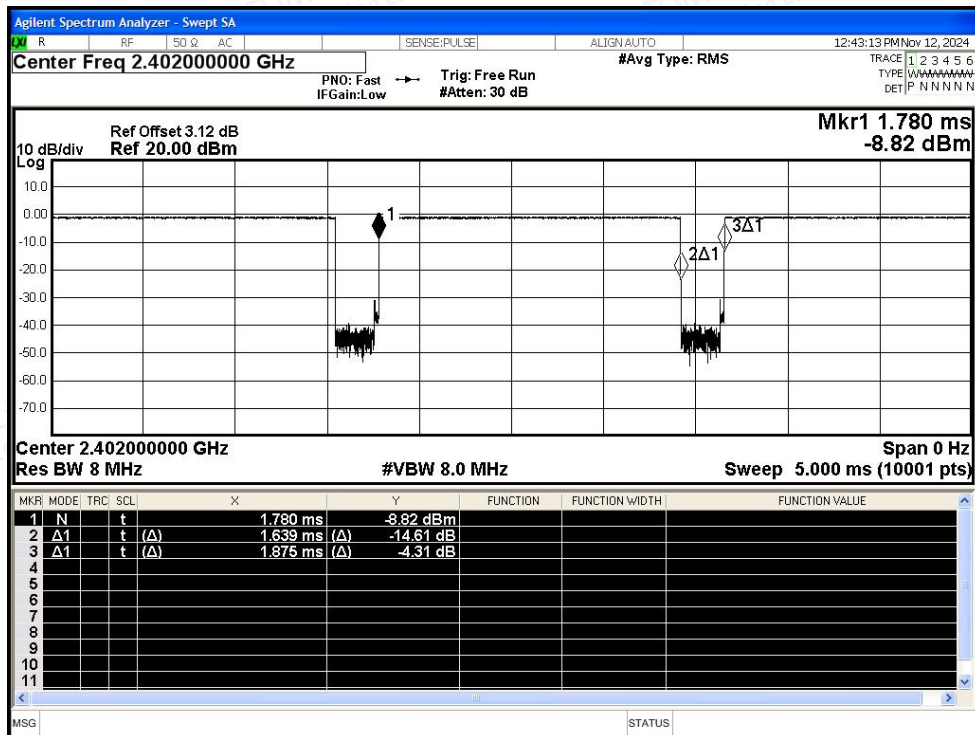


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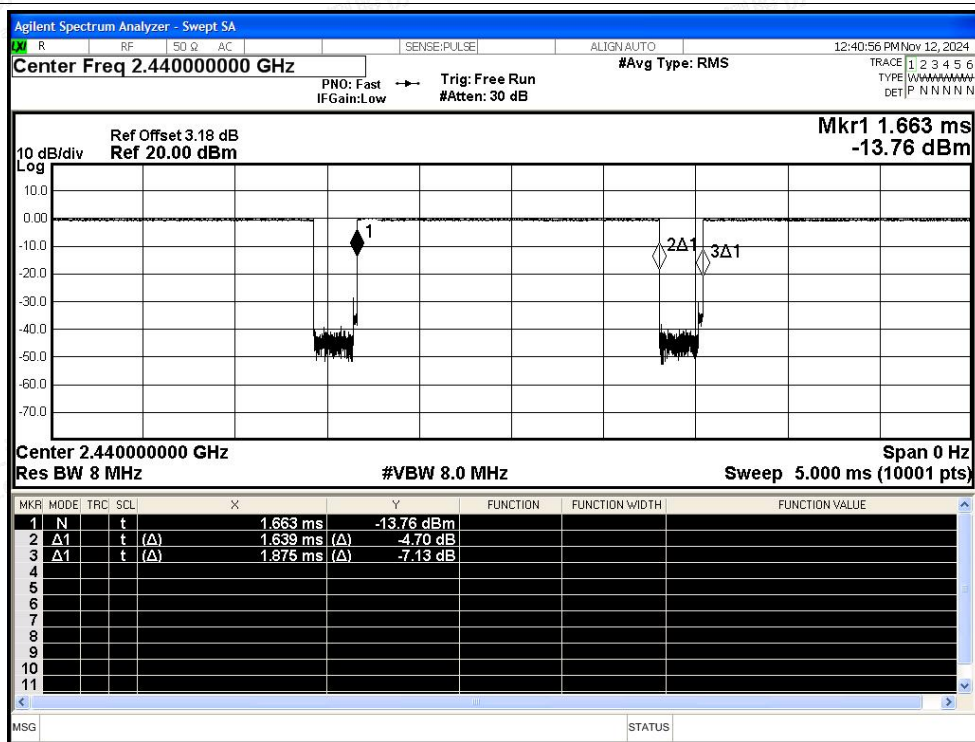


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

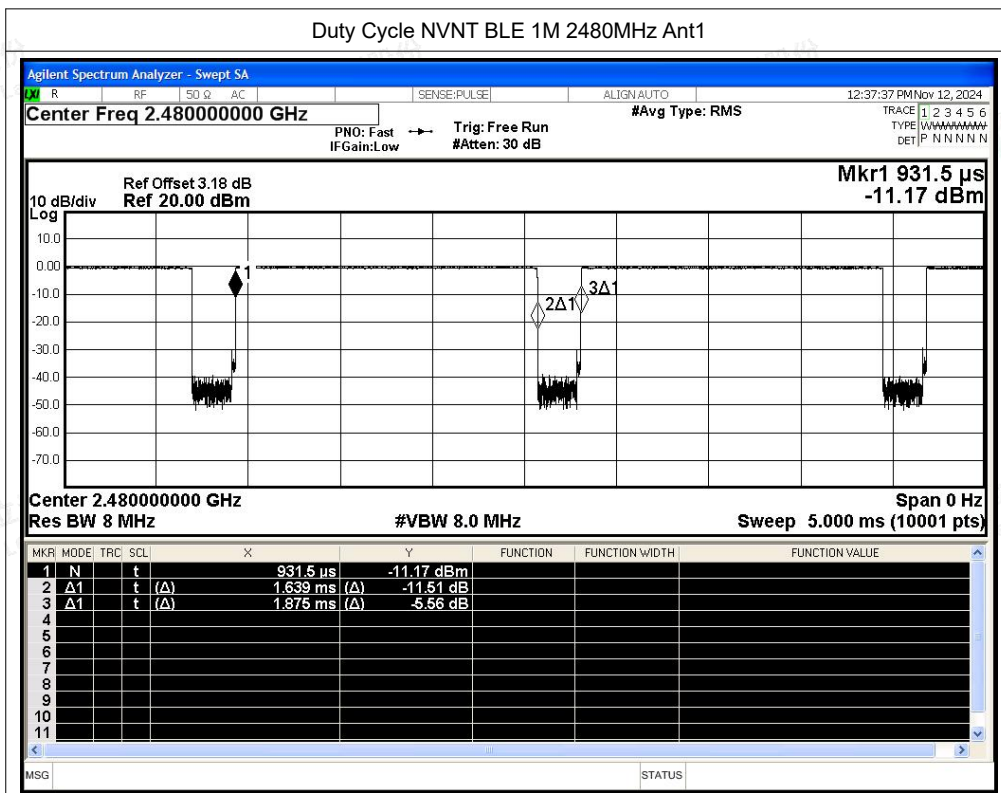


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B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-49.6	2	-	47.66	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-57.24	2	0.59	40.61	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2332.656	-46.86	2	-	50.4	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2367.024	-56.59	2	0.59	41.26	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.02	2	-	47.24	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-57.11	2	0.59	40.74	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.7	2	-	48.56	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-56.61	2	0.59	41.24	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2485.72	-45.18	2	-	52.08	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2491.192	-56.04	2	0.59	41.81	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.8	2	-	47.46	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-56.71	2	0.59	41.14	Average	54	Pass



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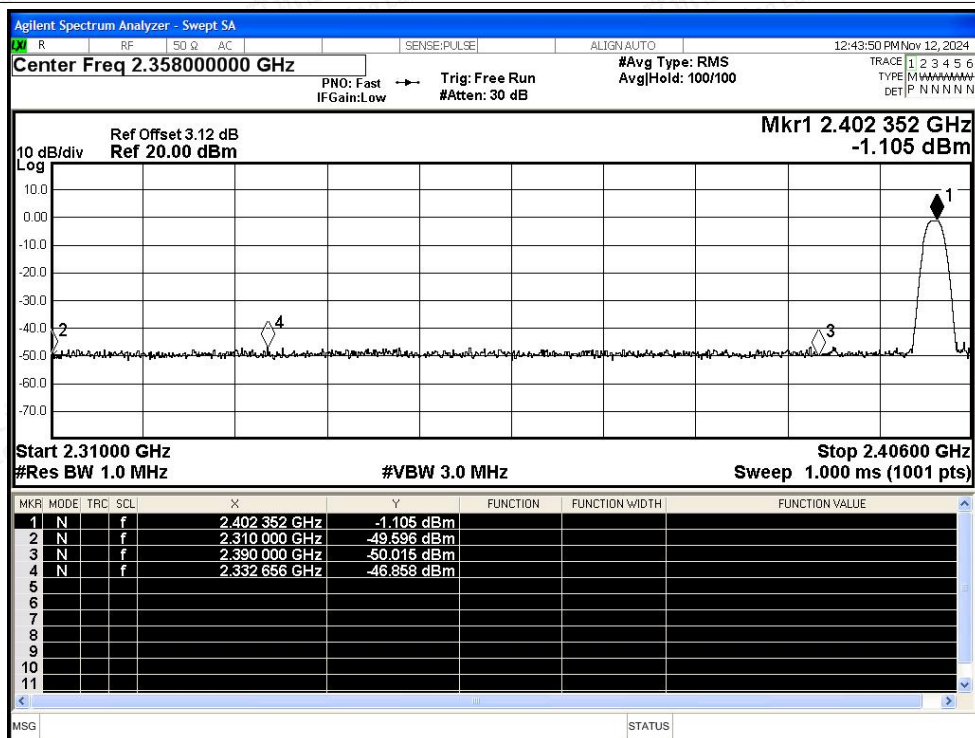
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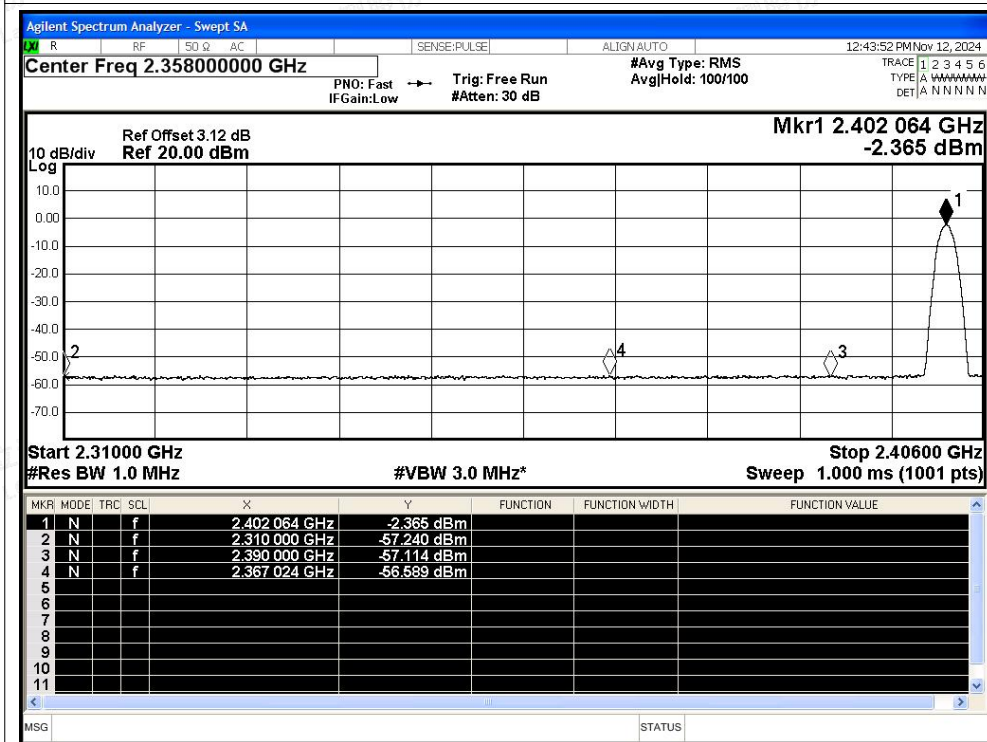


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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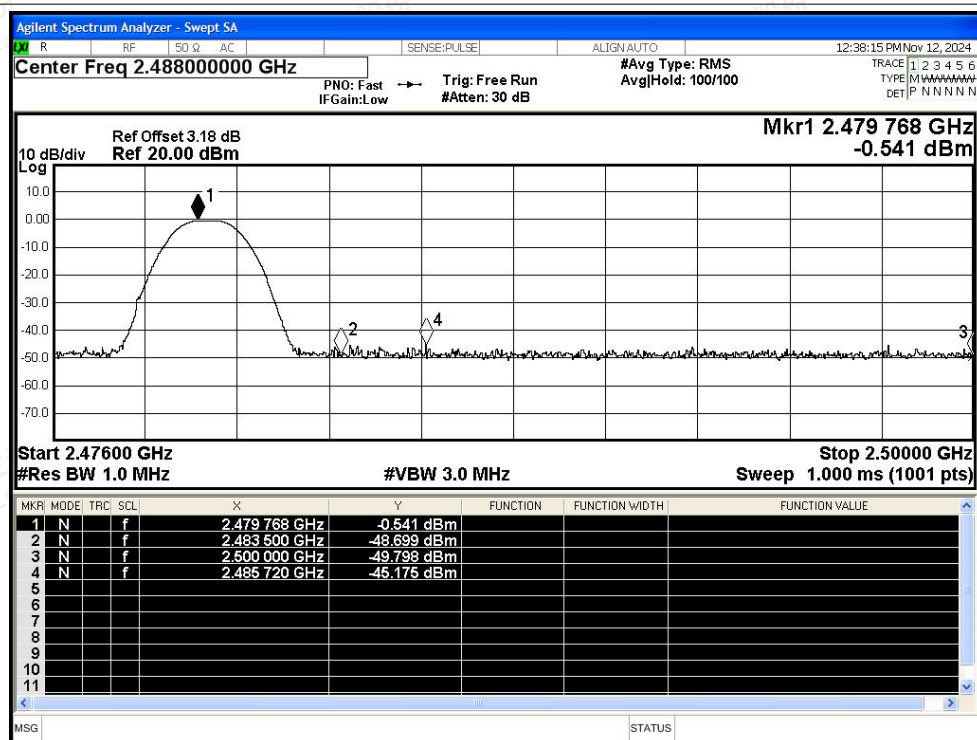
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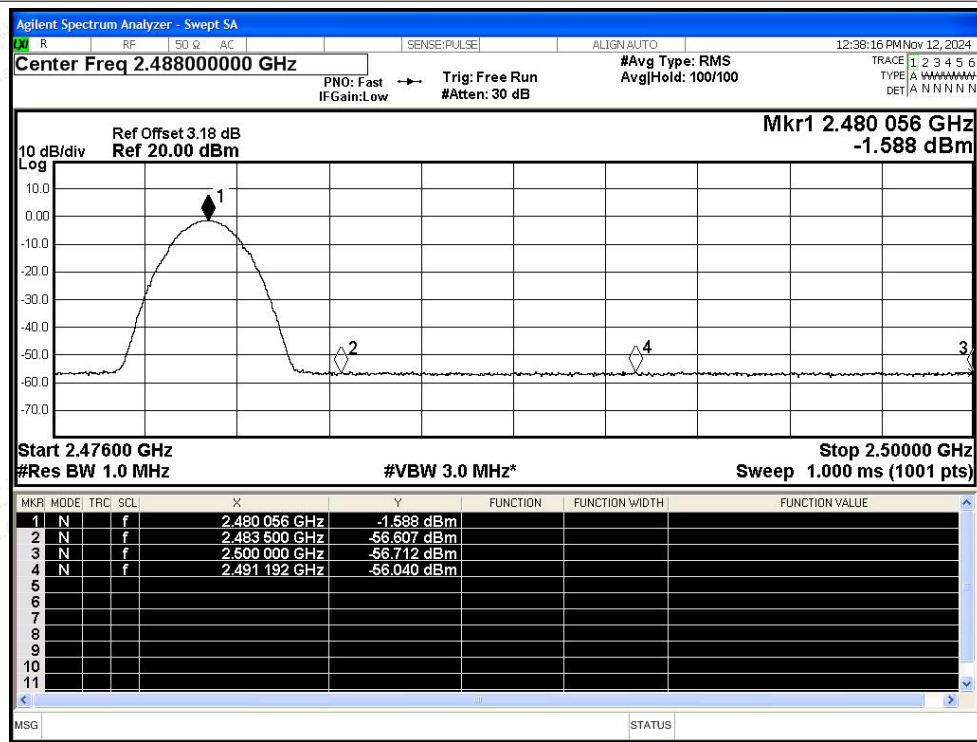
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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