



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: RGB Video Light

Test Model: SL-160

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Monkey Li
Supervised by:	 Li Huan



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A.1 -6dB Bandwidth

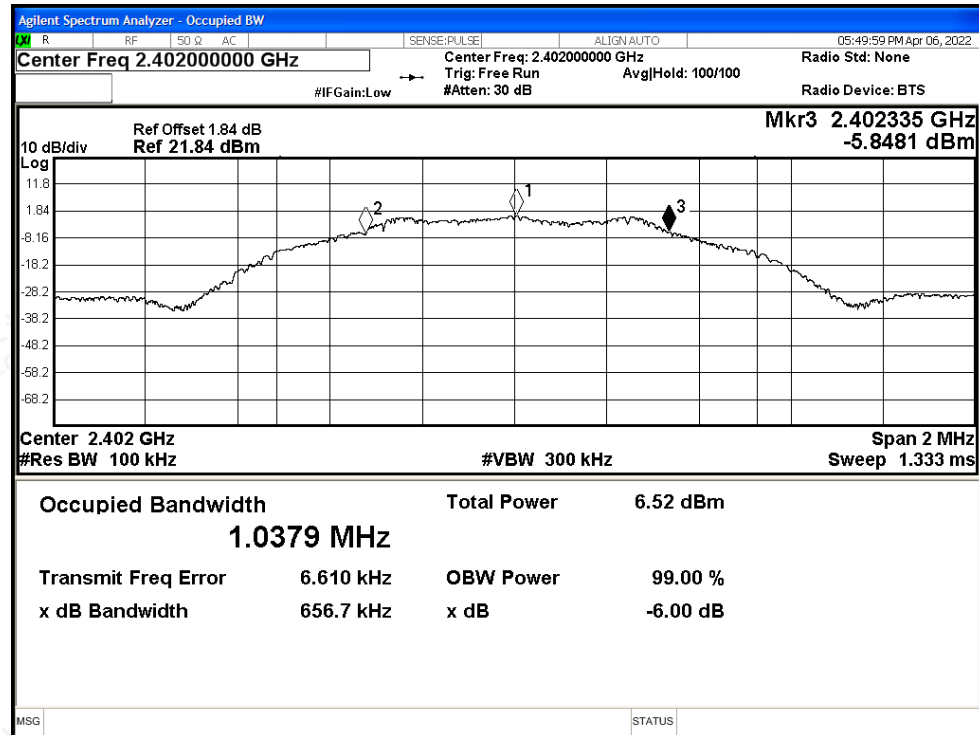
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.657	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.662	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.663	0.5	Pass



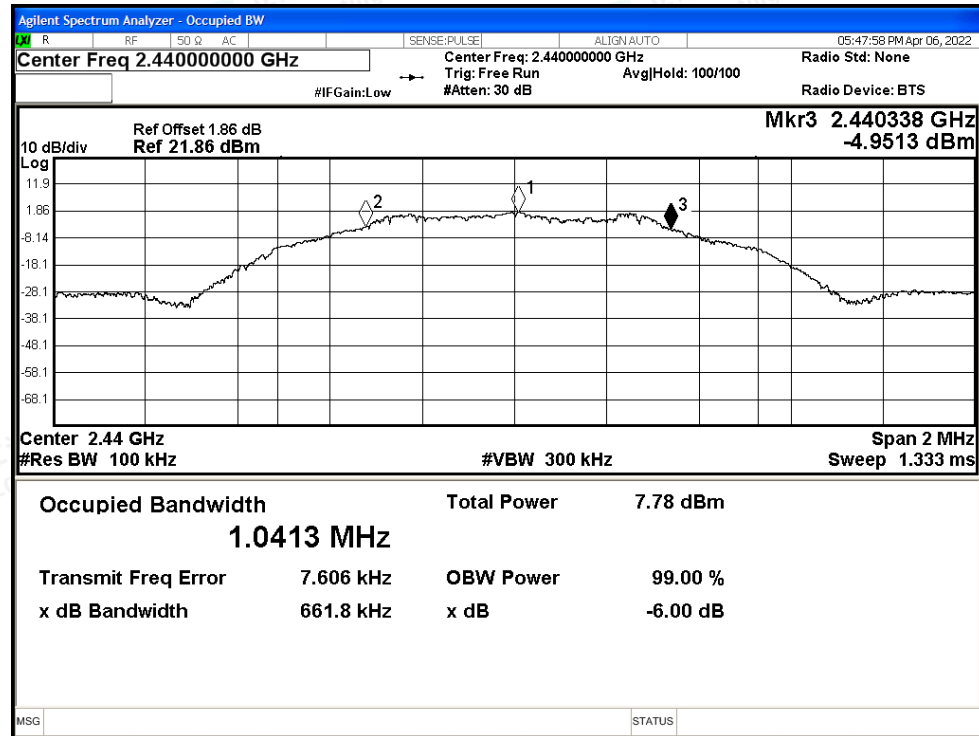


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

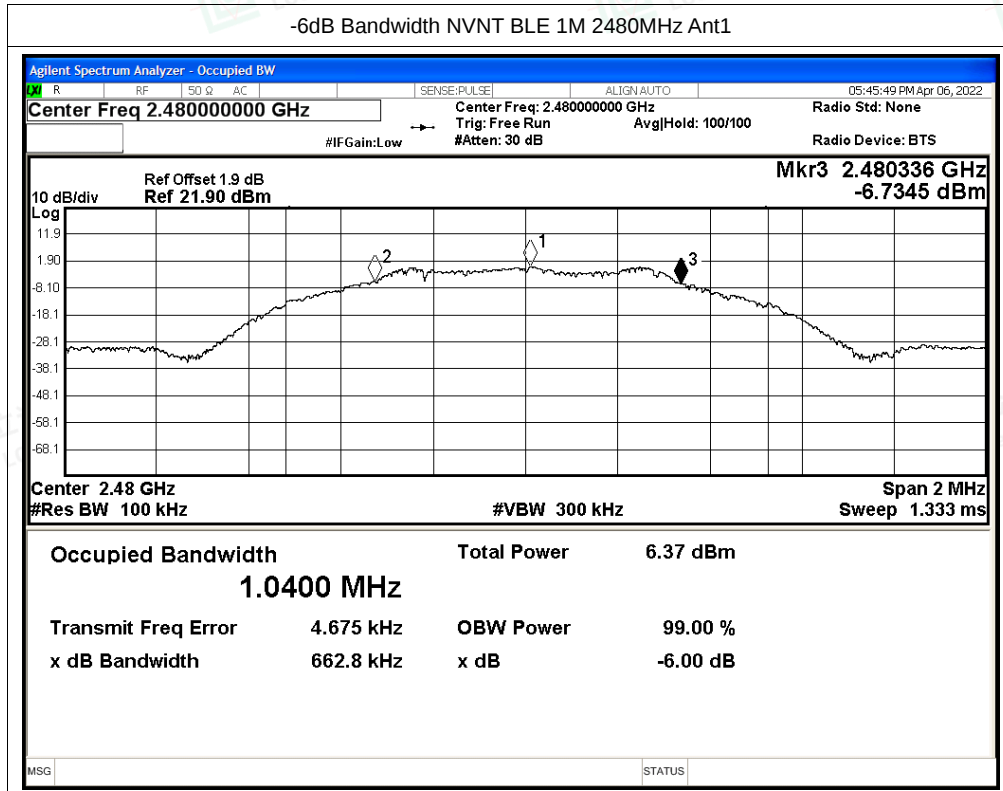


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.68	0	0.68	30	Pass
NVNT	BLE 1M	2440	Ant1	1.97	0	1.97	30	Pass
NVNT	BLE 1M	2480	Ant1	0.57	0	0.57	30	Pass



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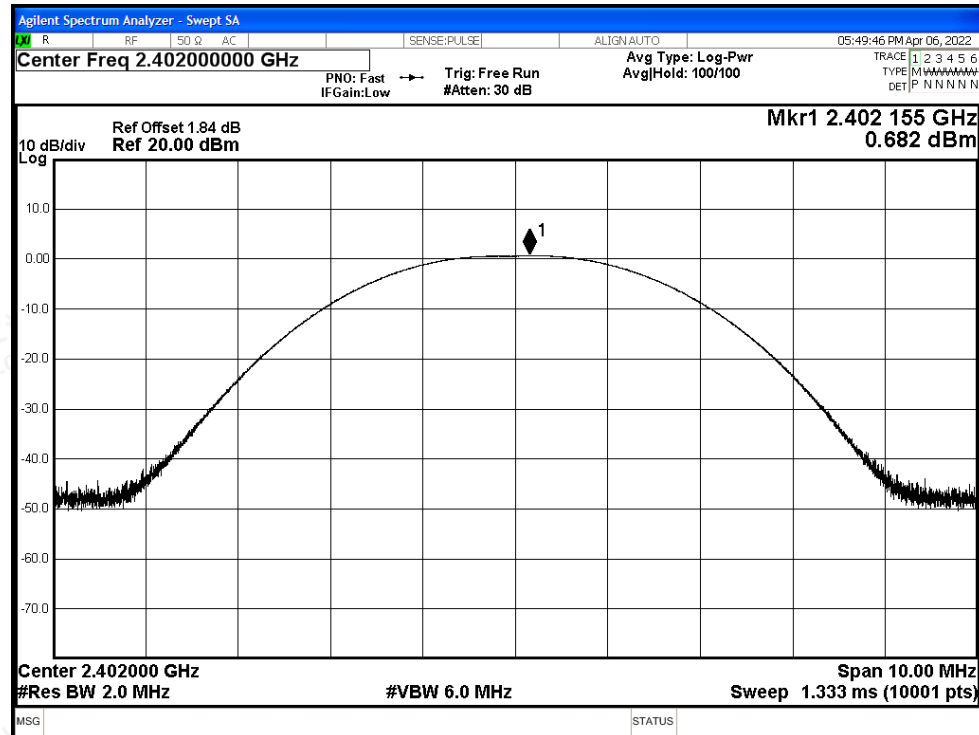
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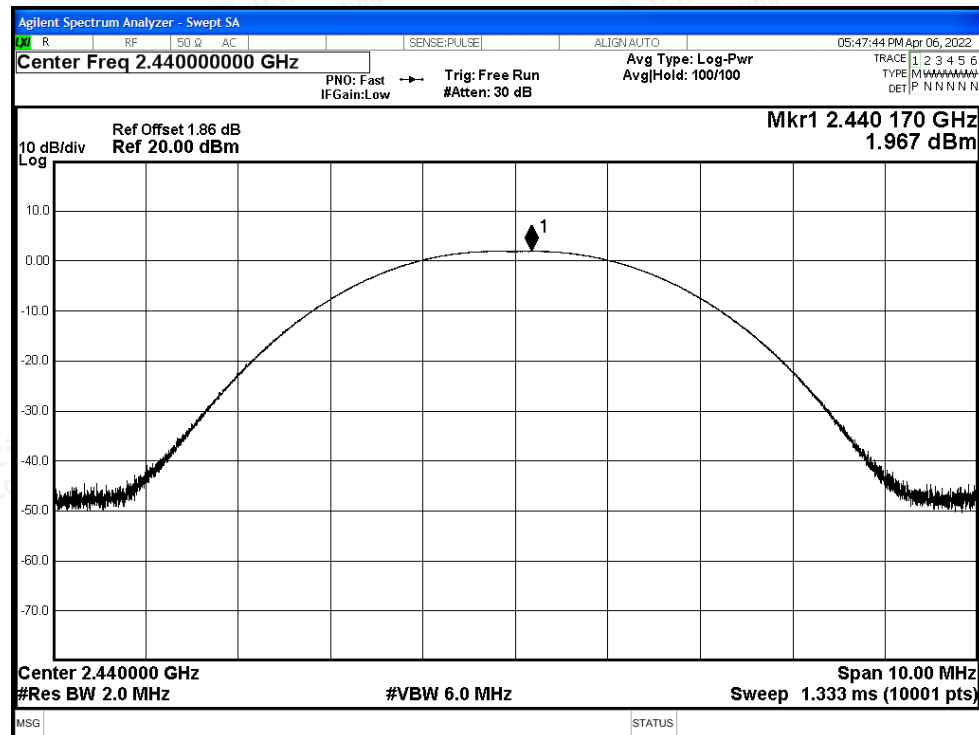


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

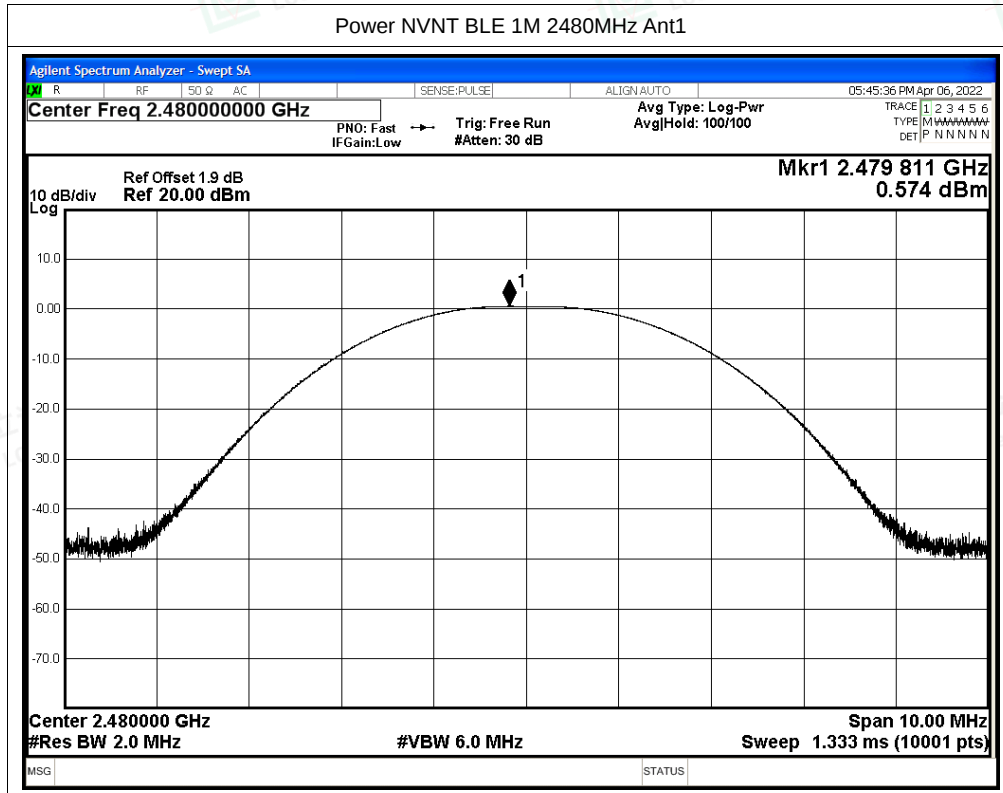


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A.3 Maximum Power Spectral Density Level

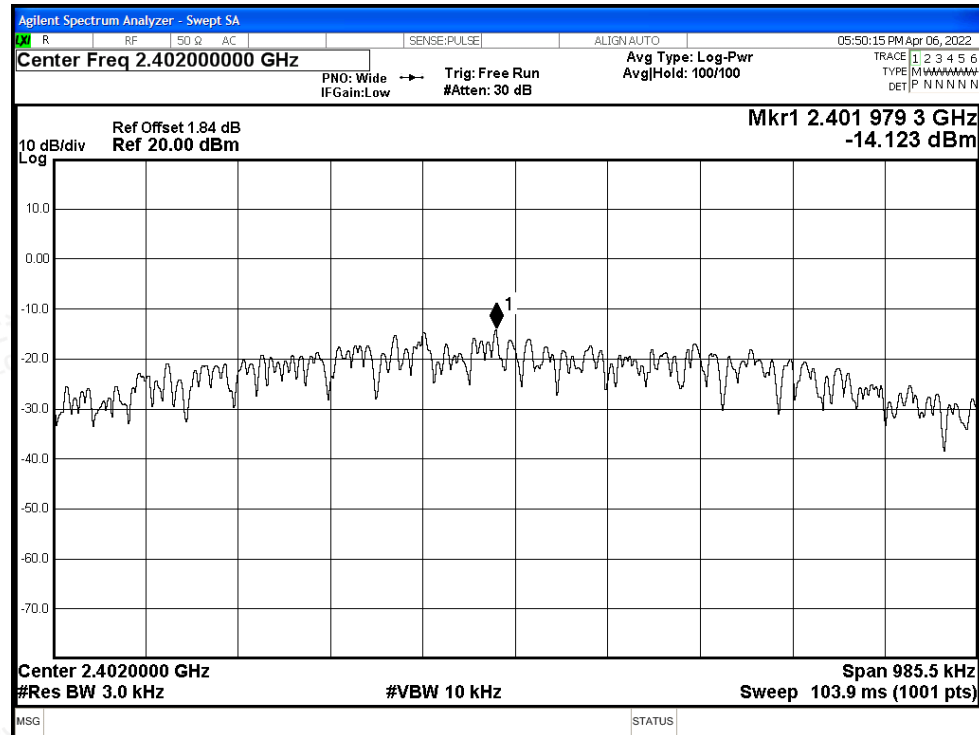
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-14.12	0	-14.12	8	Pass
NVNT	BLE 1M	2440	Ant1	-12.82	0	-12.82	8	Pass
NVNT	BLE 1M	2480	Ant1	-14.2	0	-14.2	8	Pass



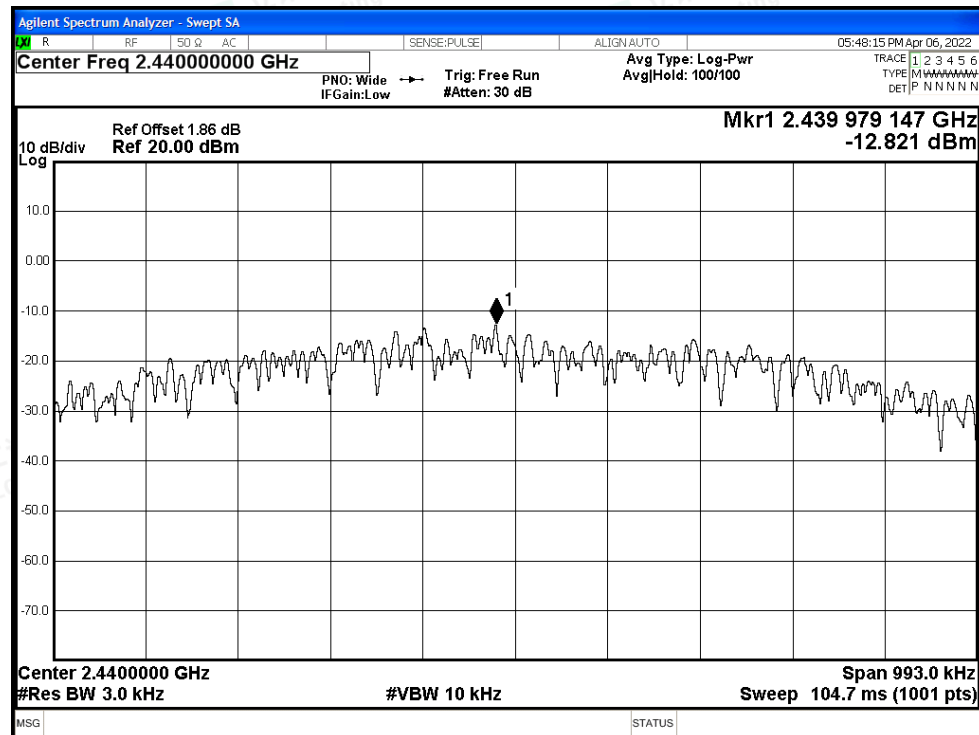


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



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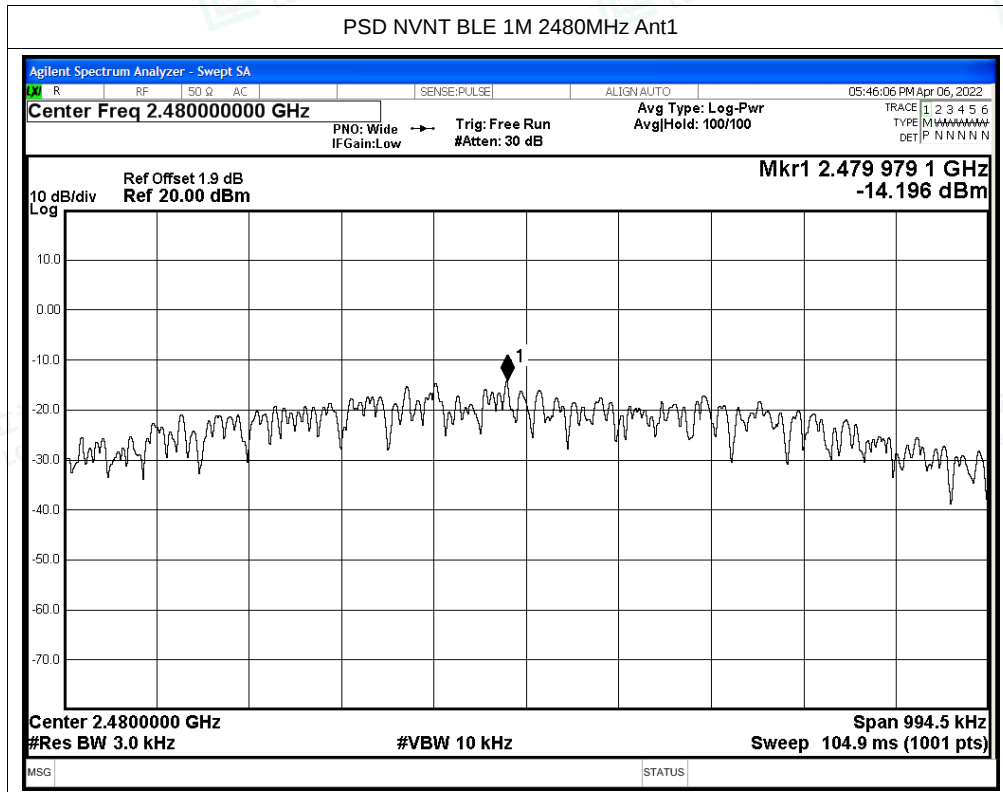
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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-57.32	-20	Pass
NVNT	BLE 1M	2480	Ant1	-55.8	-20	Pass

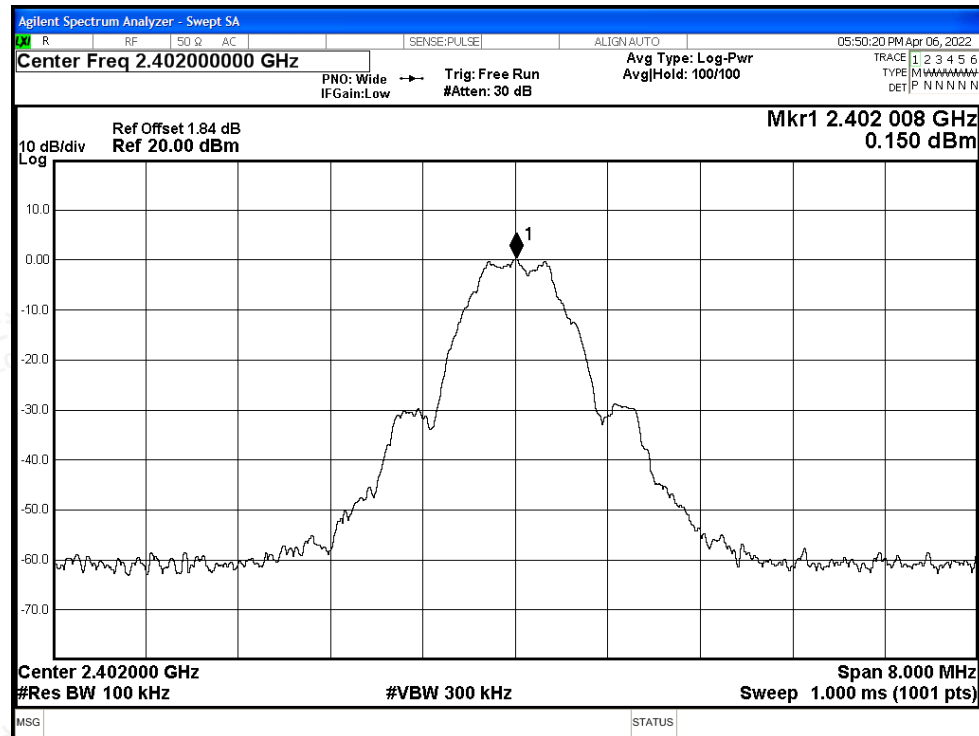




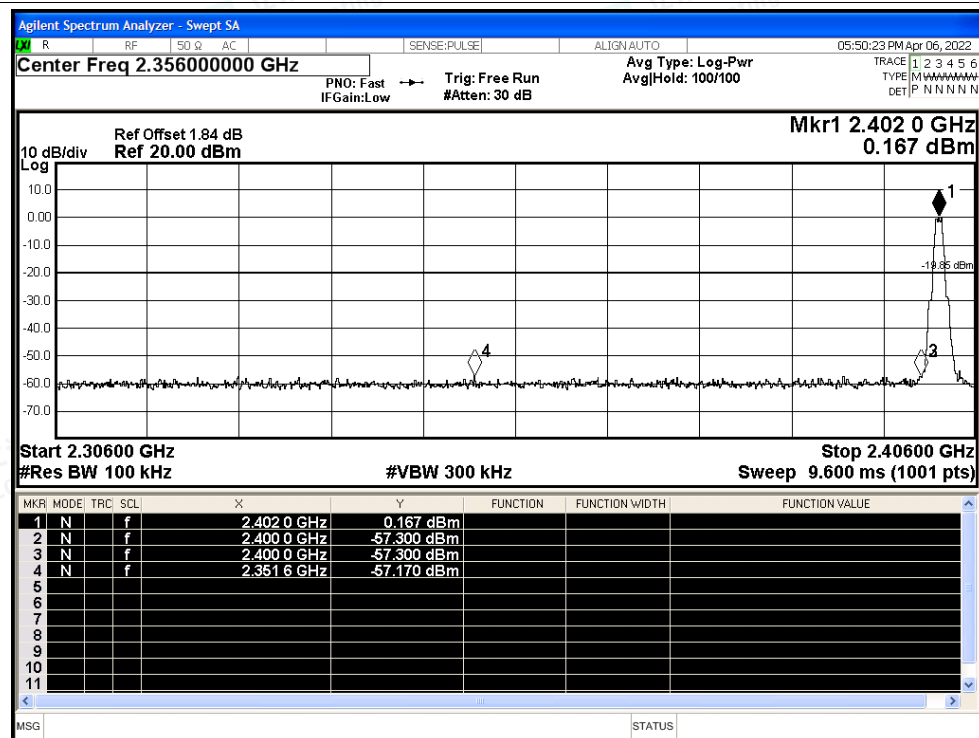
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Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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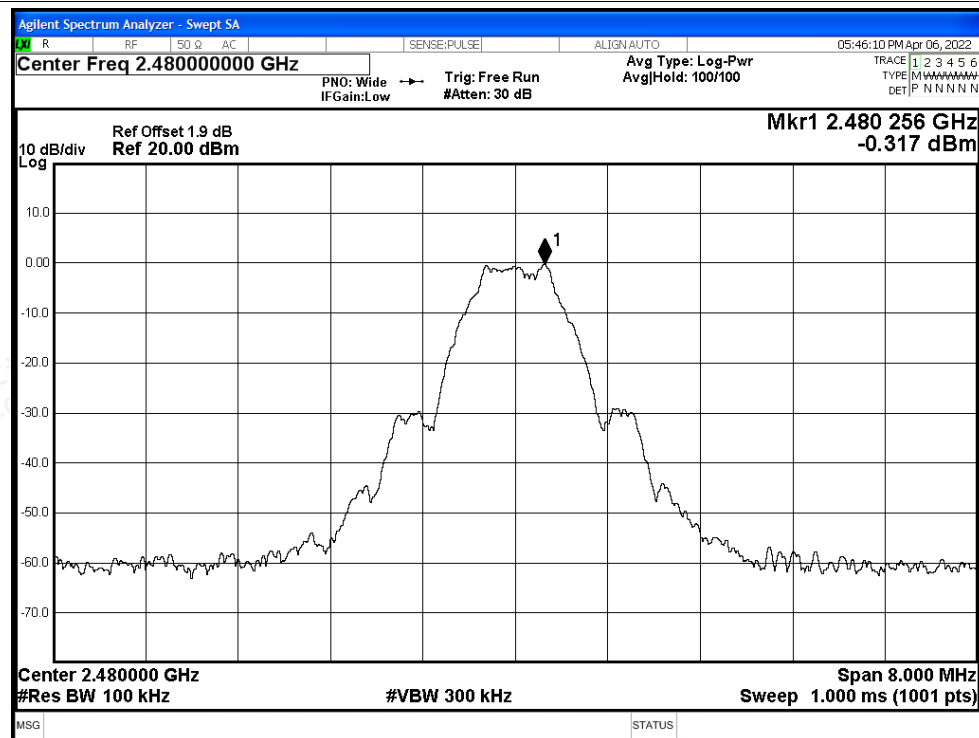
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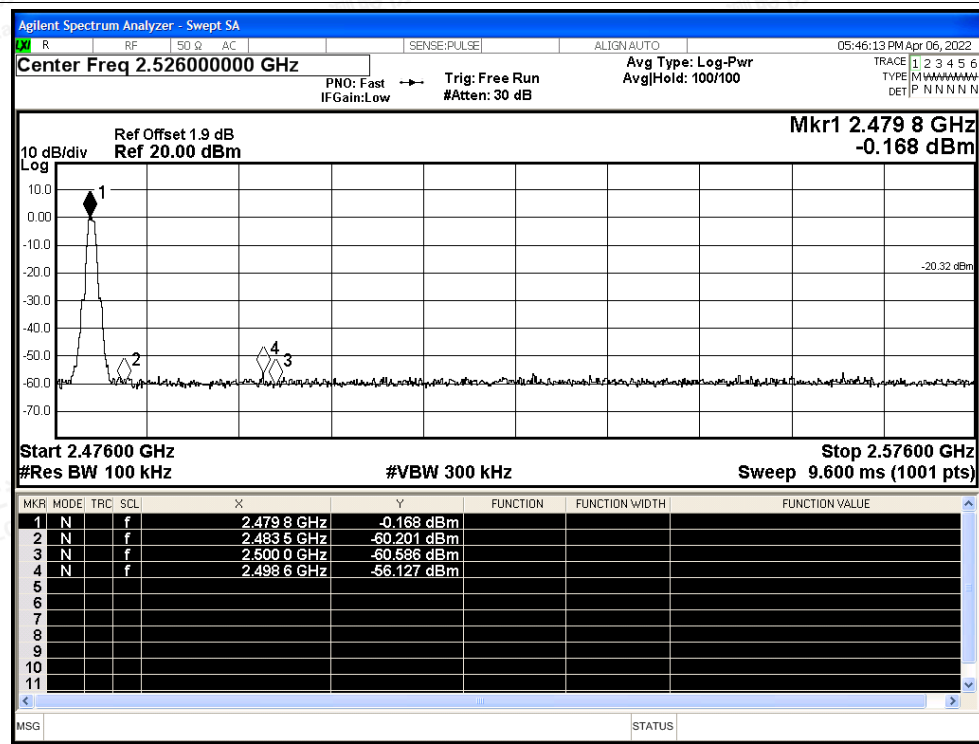


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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.69	-20	Pass
NVNT	BLE 1M	2440	Ant1	-56.91	-20	Pass
NVNT	BLE 1M	2480	Ant1	-55.65	-20	Pass

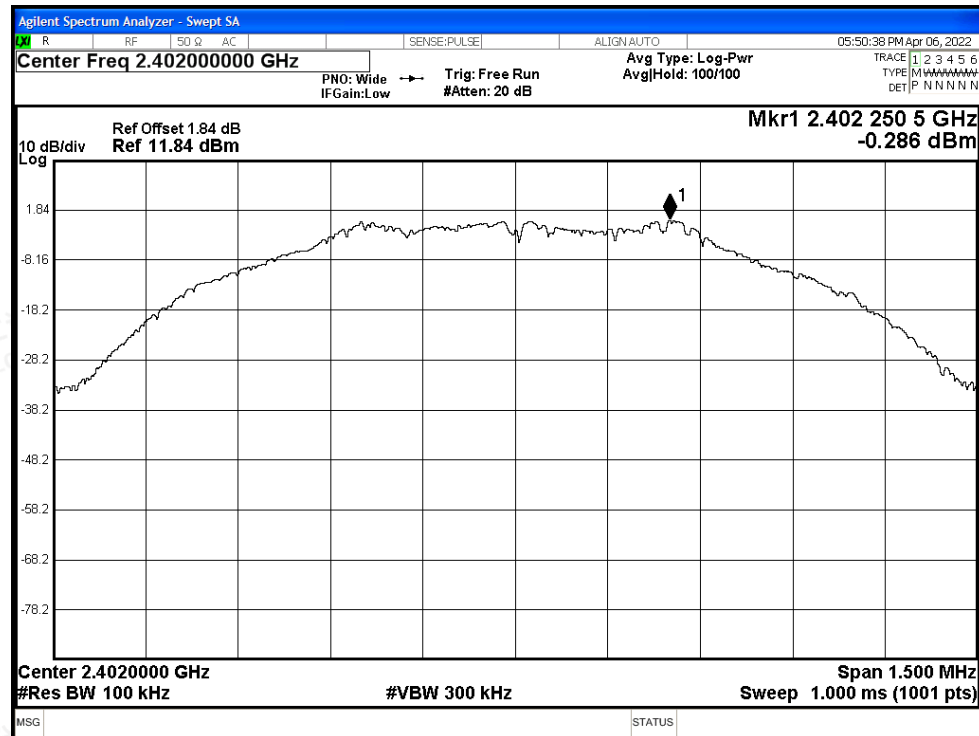




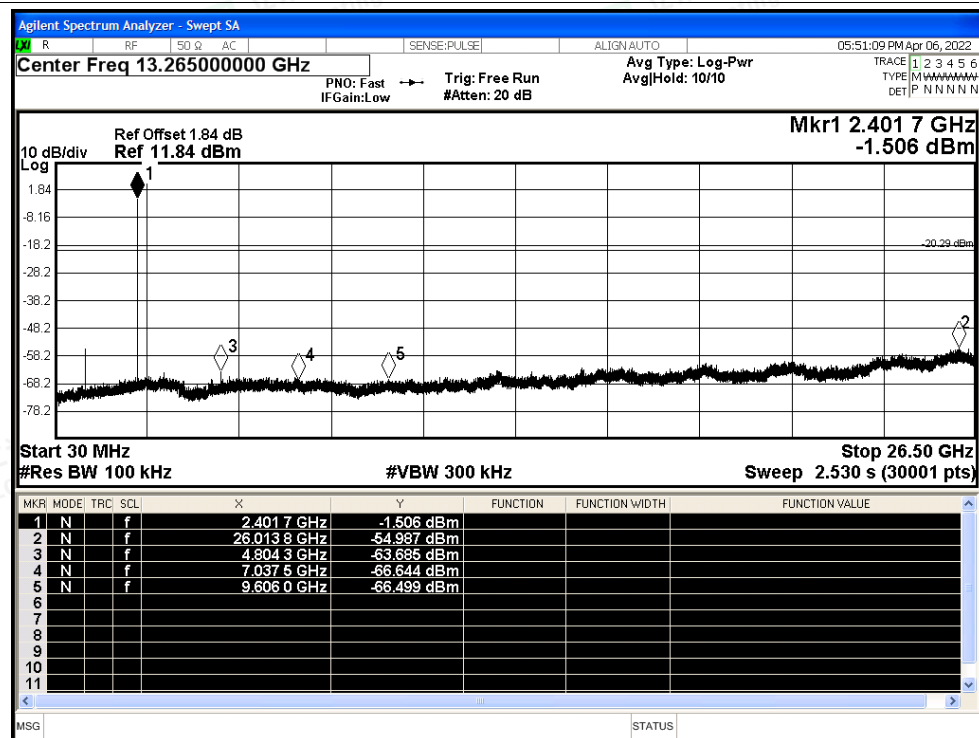
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Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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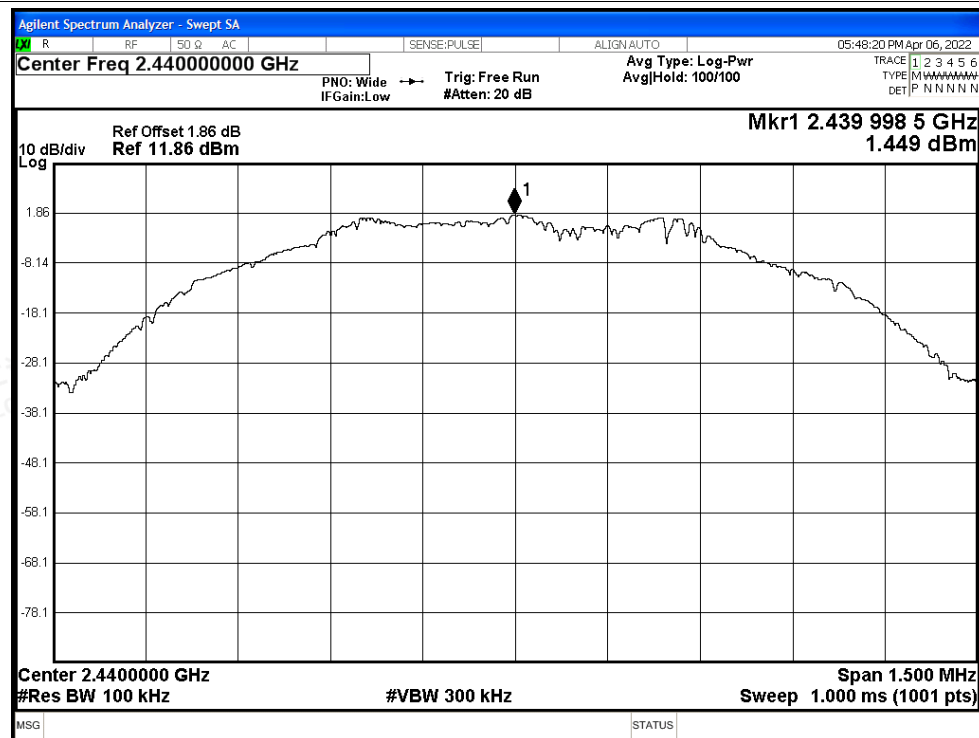
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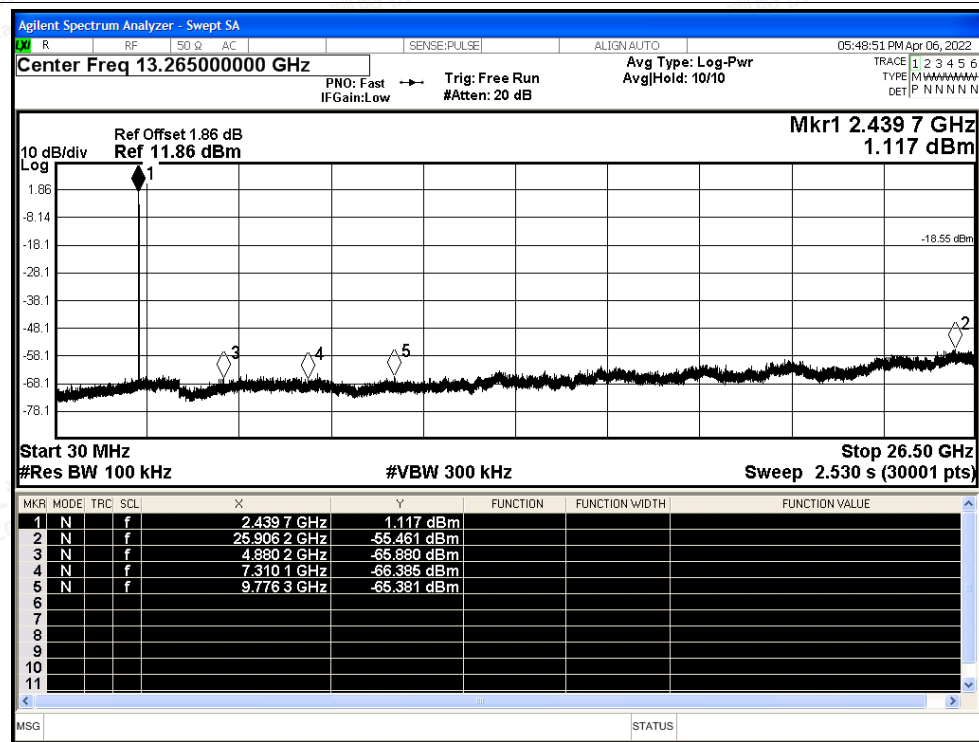


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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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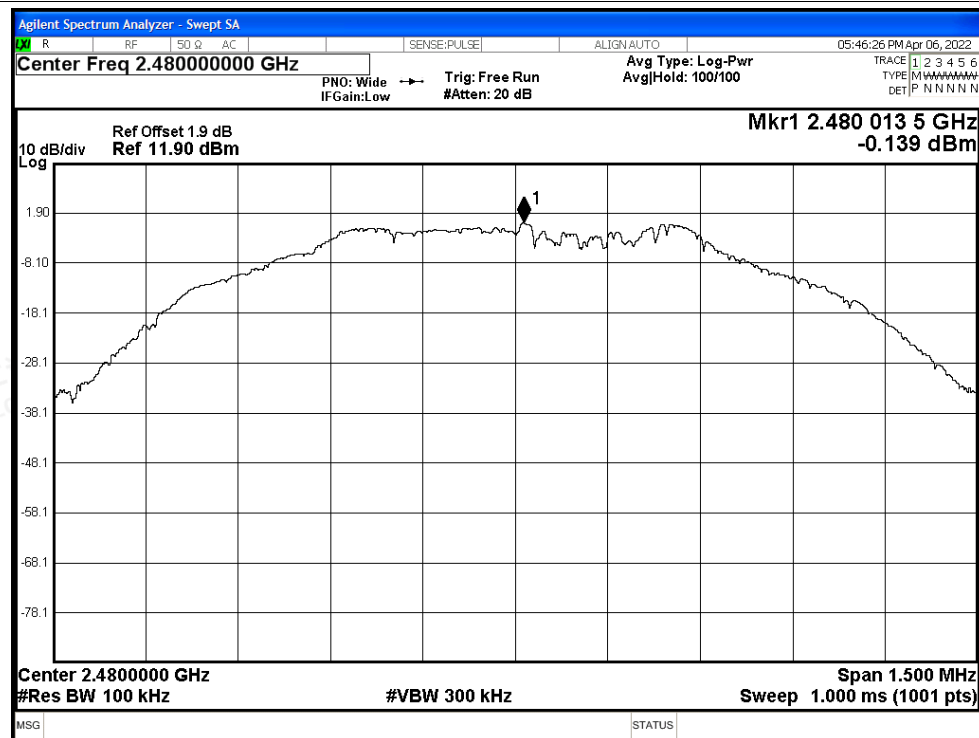
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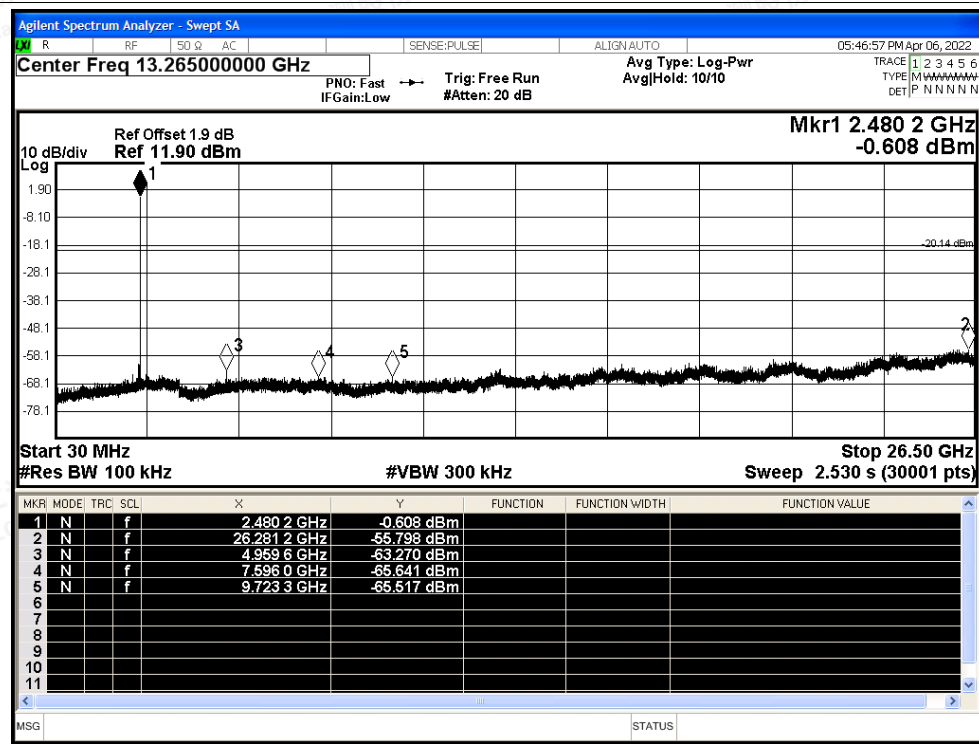


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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2440	Ant1	61.47	2.11	2.6
NVNT	BLE 1M	2480	Ant1	61.44	2.12	2.6

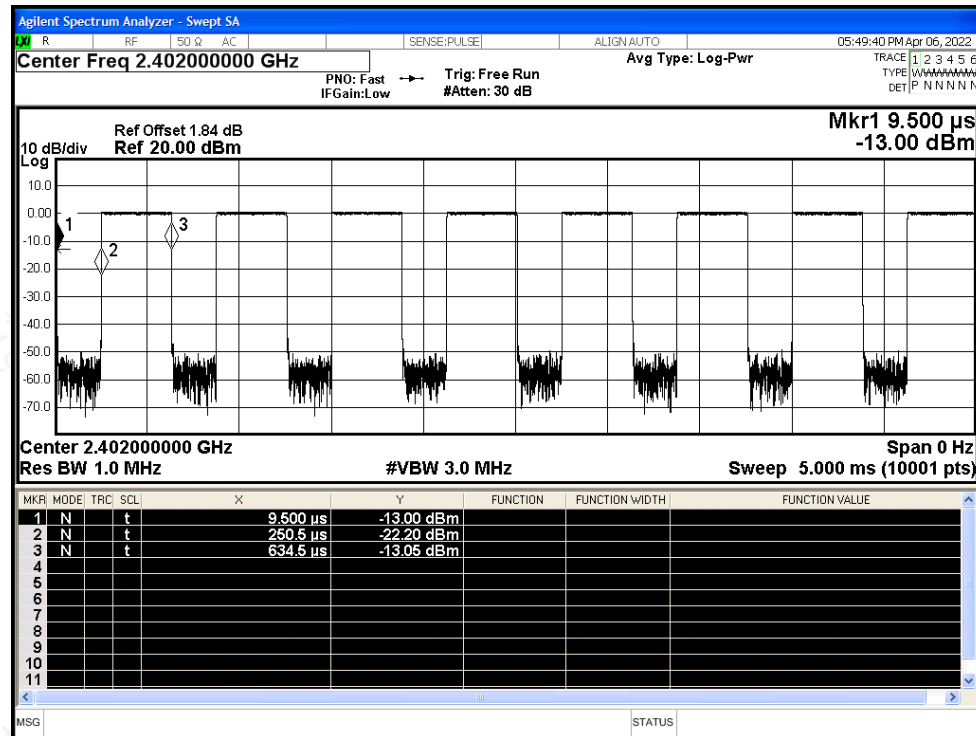




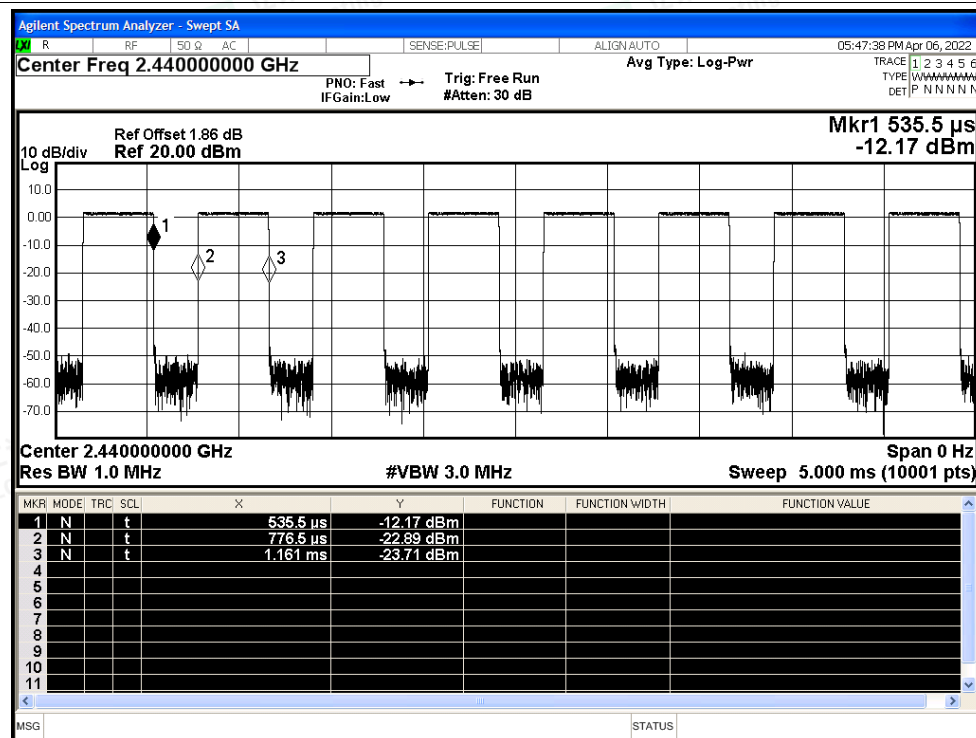
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Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1



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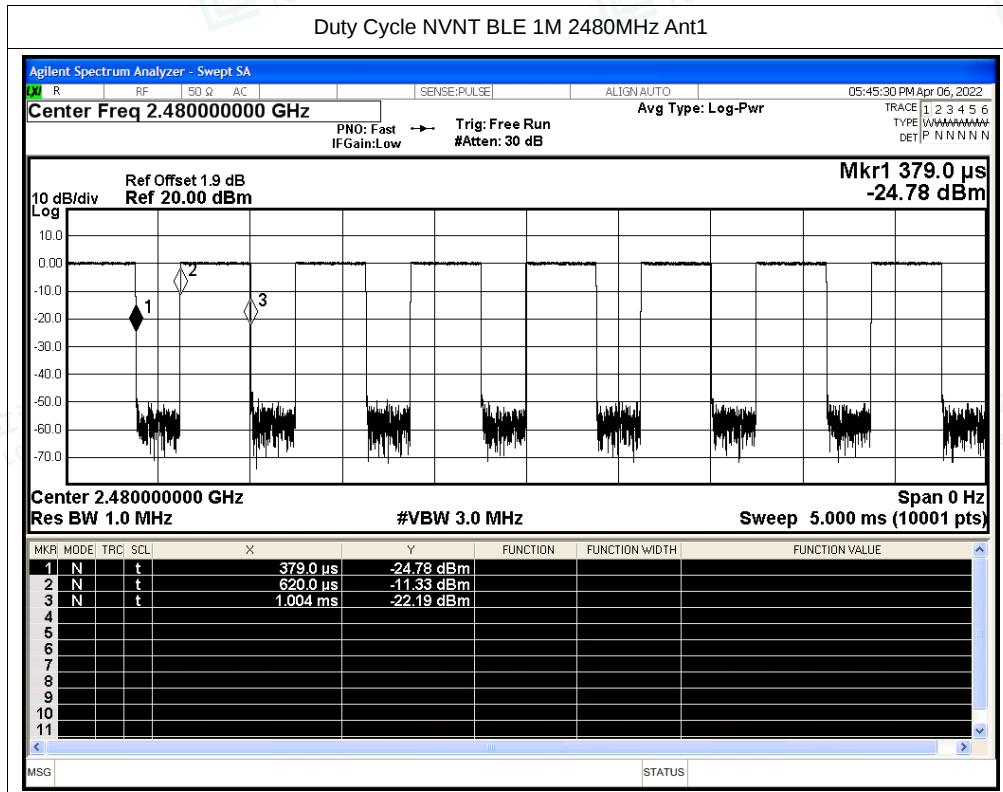
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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-50.37	2	46.89	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-59.89	2	37.37	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2385.264	-47.36	2	49.9	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2343.024	-59.08	2	38.18	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-51.15	2	46.11	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-59.2	2	38.06	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-50.94	2	46.32	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-58.96	2	38.3	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.632	-47.15	2	50.11	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2484.088	-58.65	2	38.61	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.26	2	48	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-59.3	2	37.96	Average	54	Pass

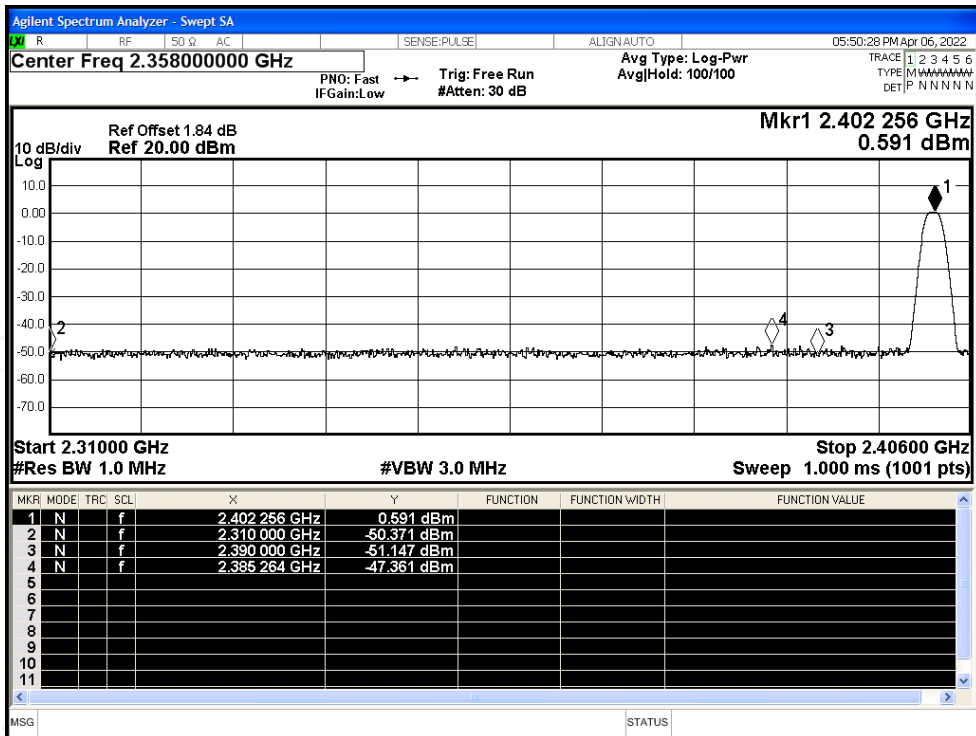




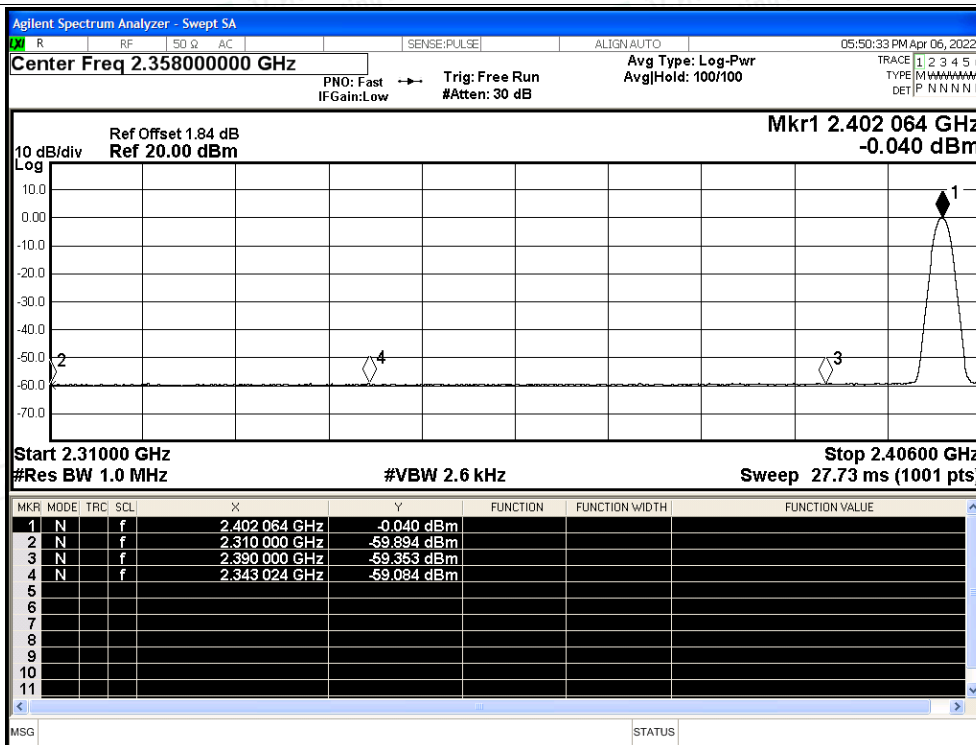
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Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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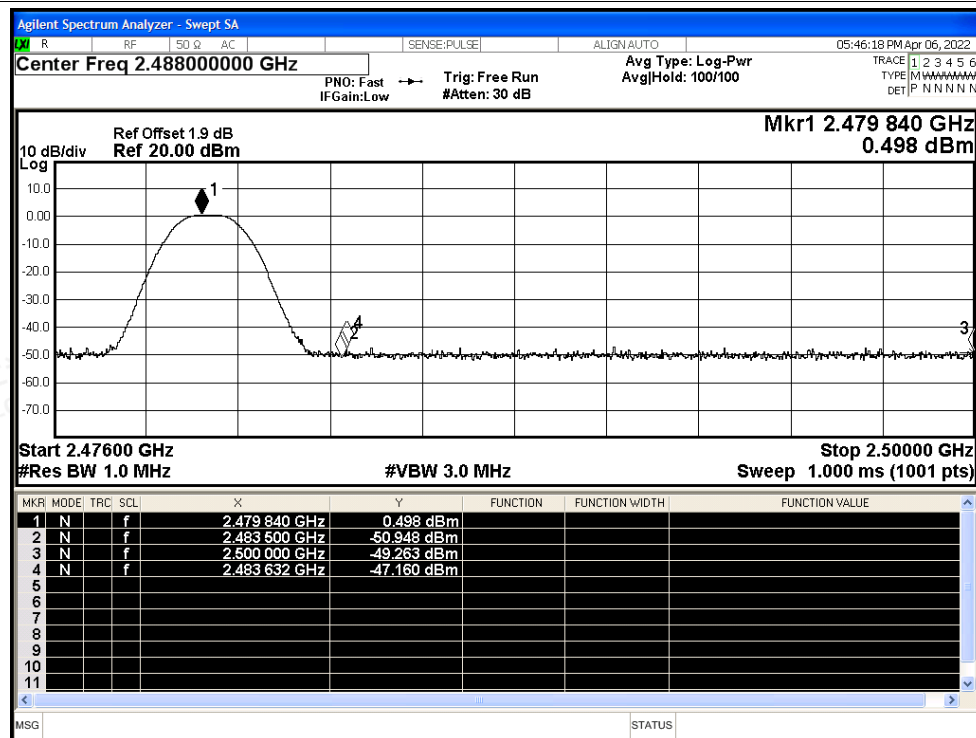
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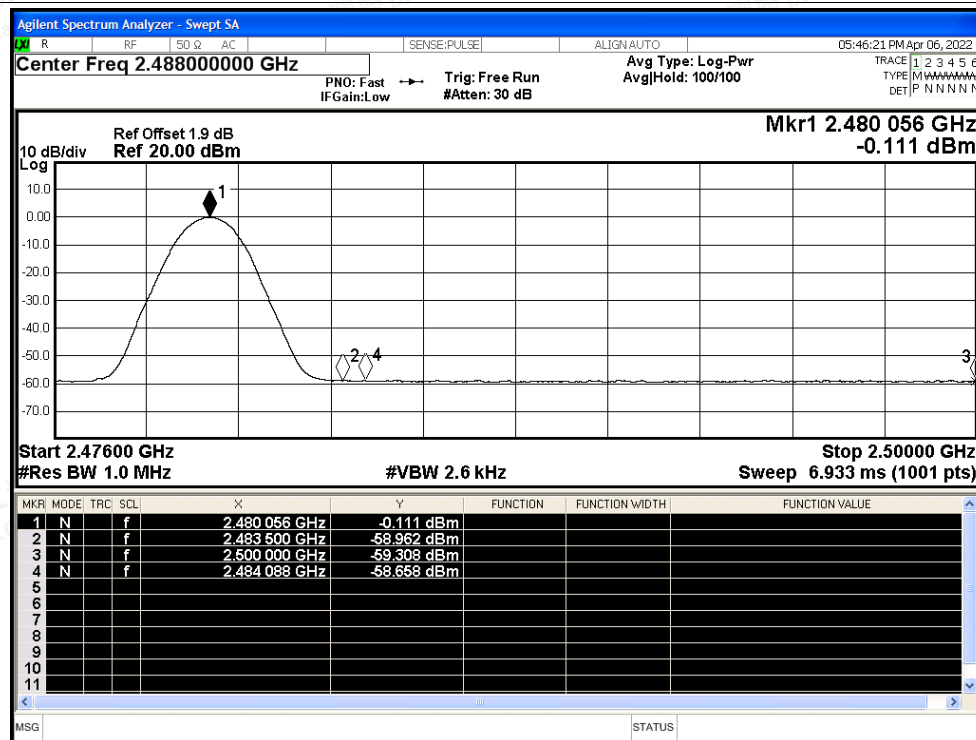


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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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