



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: 21,5" Fully Outdoor

Test Model: YT21O

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li Huan



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B.1 -6dB Bandwidth

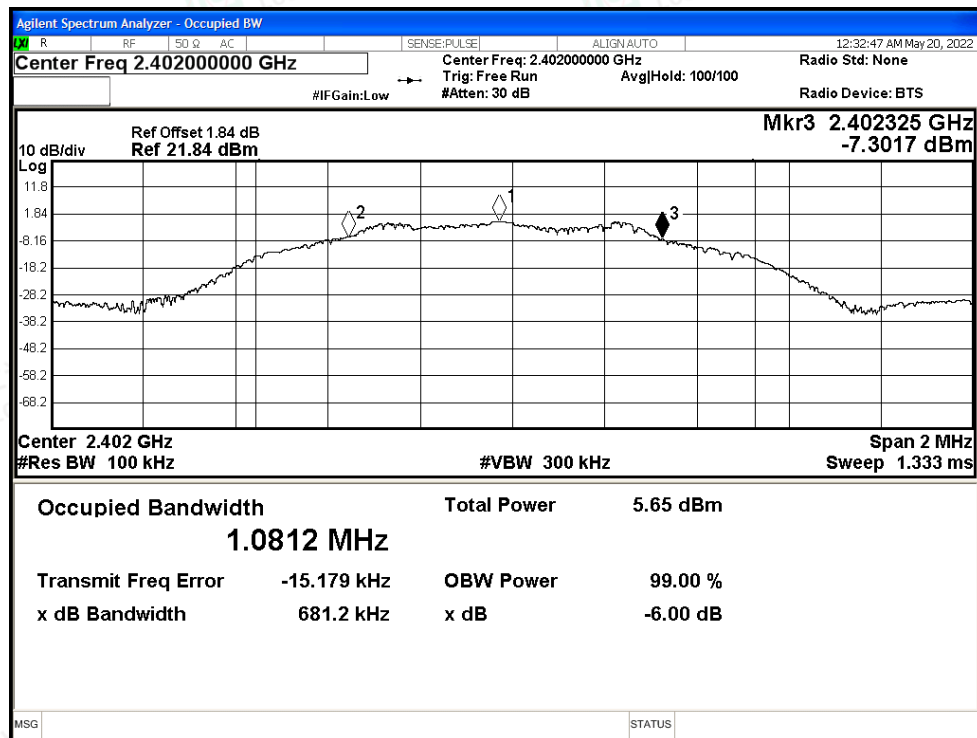
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	BT Ant	0.681	≥ 0.5	Pass
NVNT	BLE 1M	2440	BT Ant	0.692	≥ 0.5	Pass
NVNT	BLE 1M	2480	BT Ant	0.695	≥ 0.5	Pass



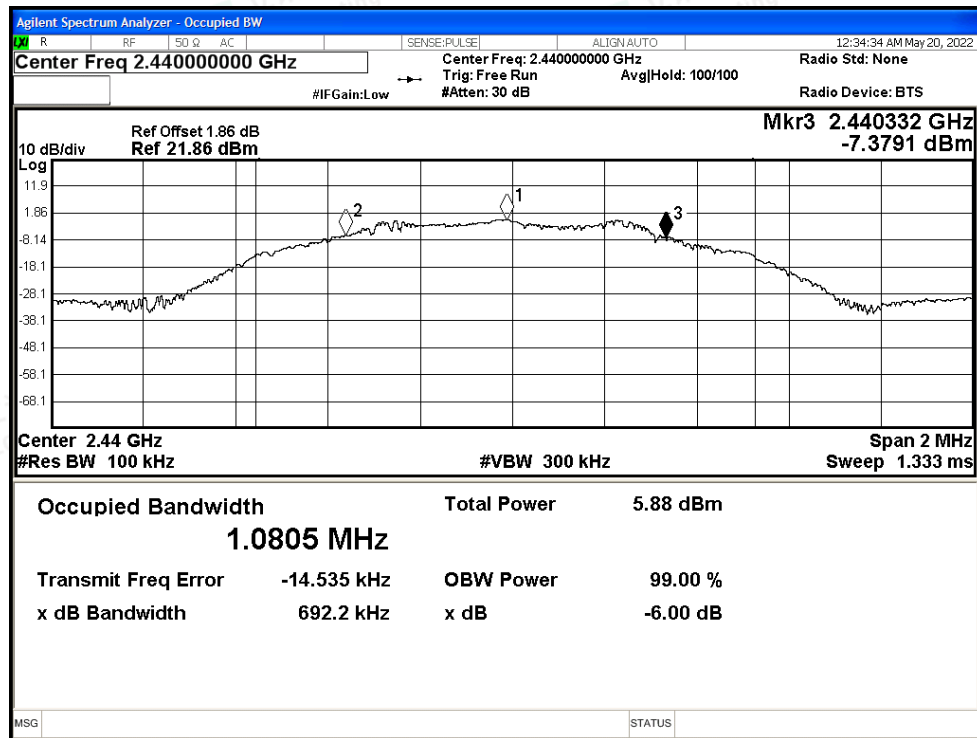


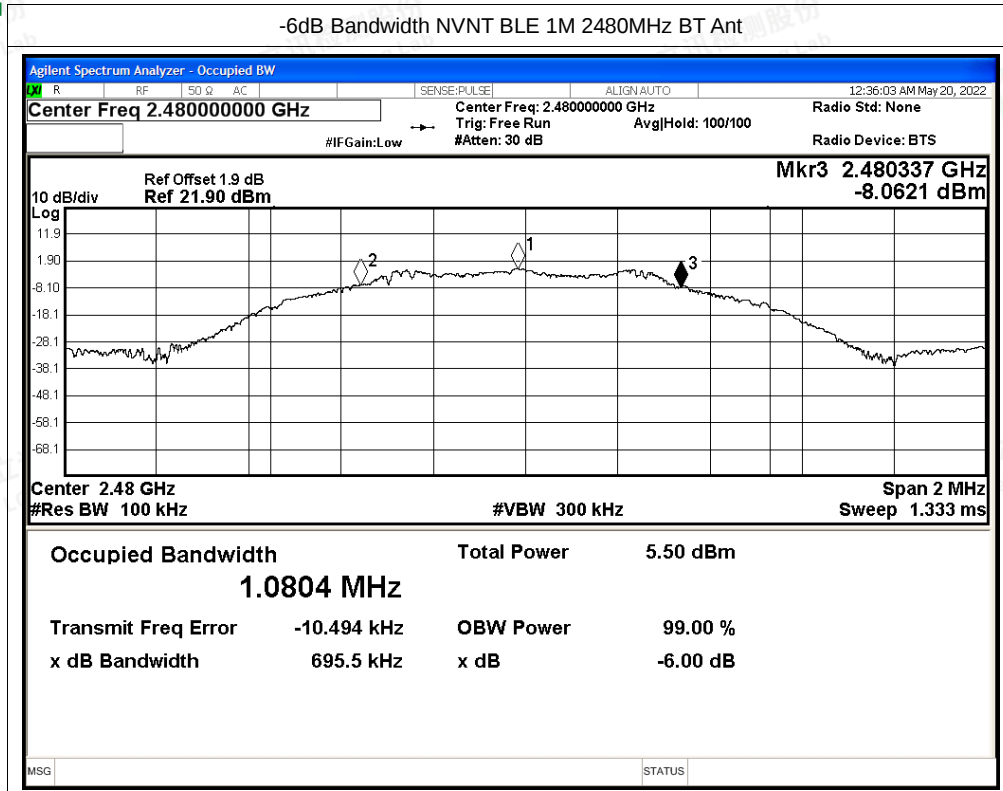
Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz BT Ant



-6dB Bandwidth NVNT BLE 1M 2440MHz BT Ant







B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	BT Ant	-0.21	0	-0.21	30	Pass
NVNT	BLE 1M	2440	BT Ant	0.07	0	0.07	30	Pass
NVNT	BLE 1M	2480	BT Ant	-0.37	0	-0.37	30	Pass

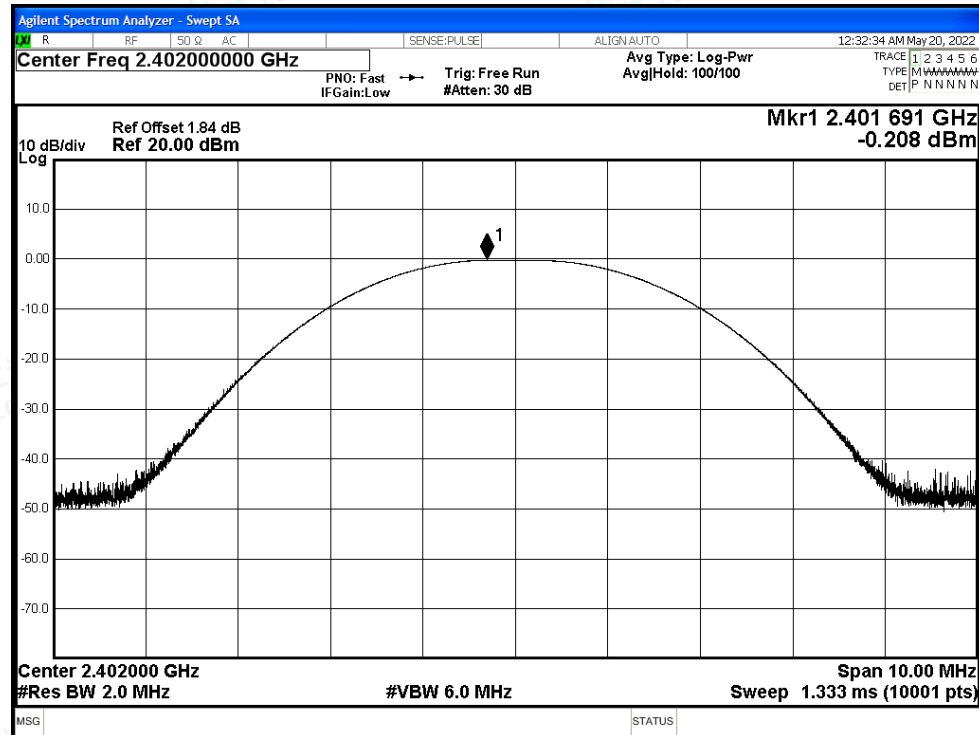


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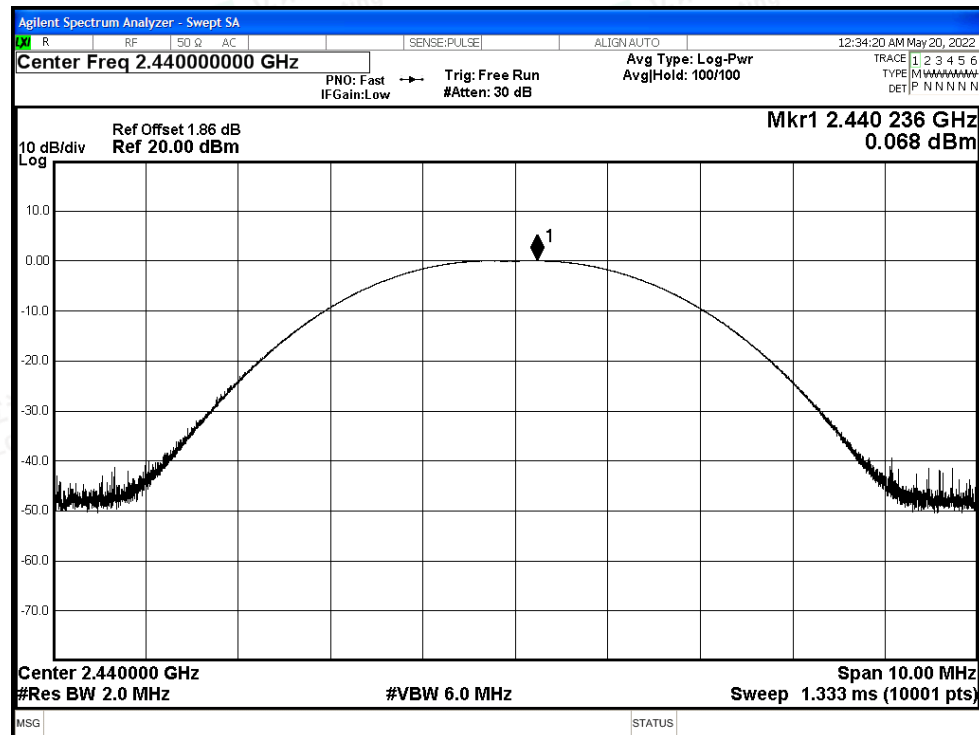


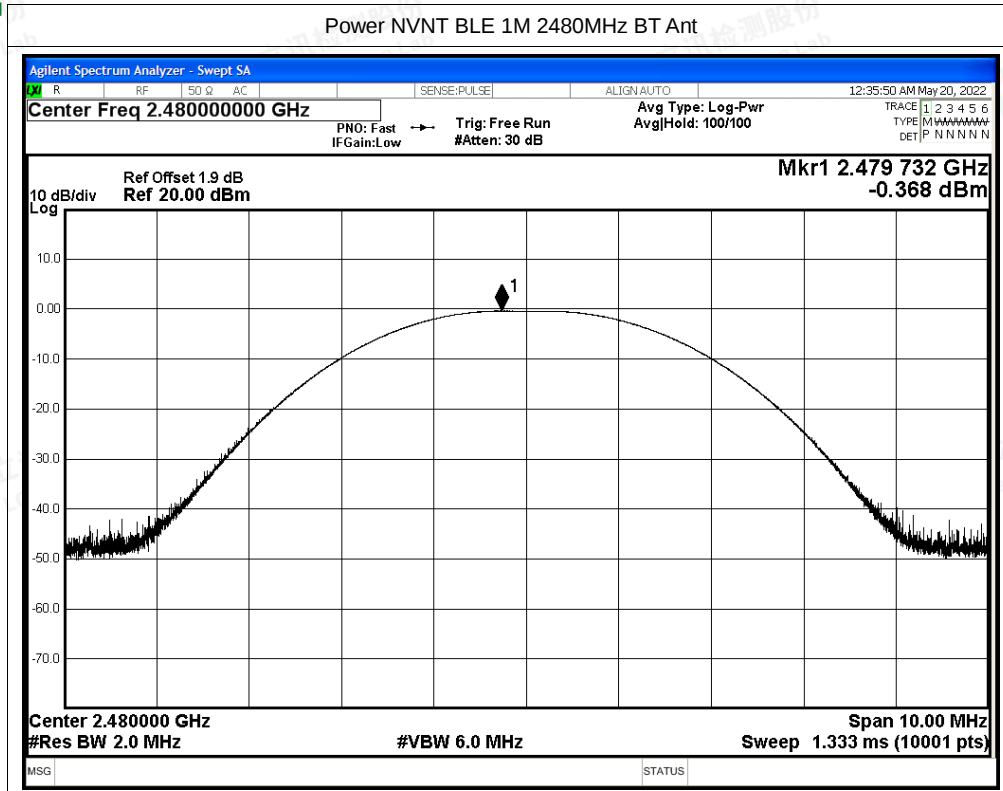
Test Graphs

Power NVNT BLE 1M 2402MHz BT Ant



Power NVNT BLE 1M 2440MHz BT Ant







B.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	BT Ant	-14.45	0	-14.45	8	Pass
NVNT	BLE 1M	2440	BT Ant	-14.22	0	-14.22	8	Pass
NVNT	BLE 1M	2480	BT Ant	-14.67	0	-14.67	8	Pass

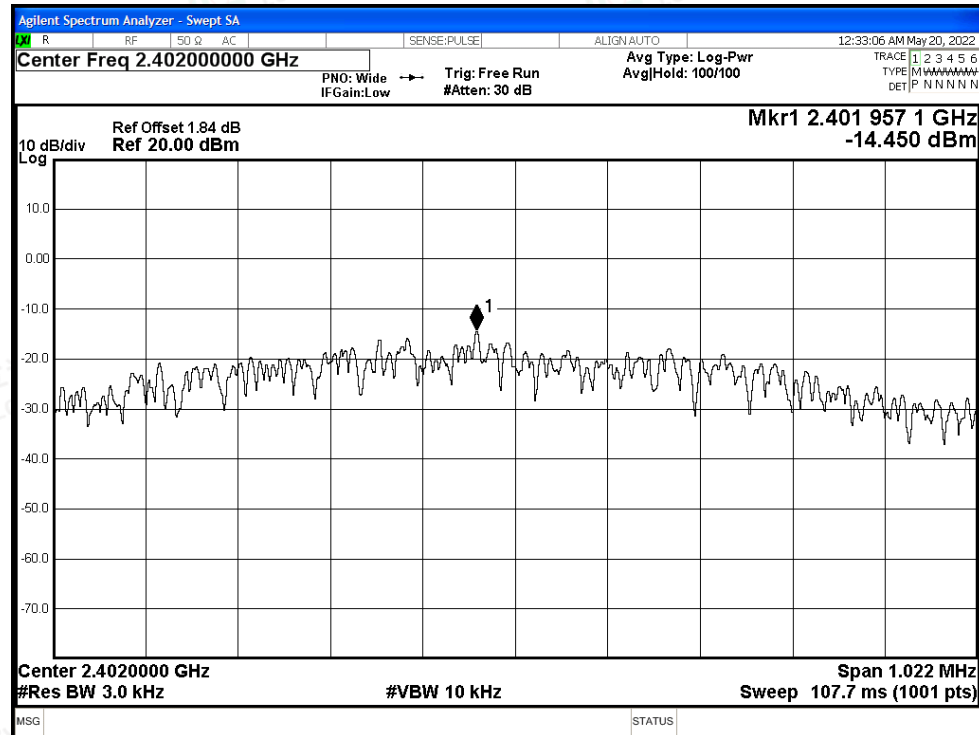


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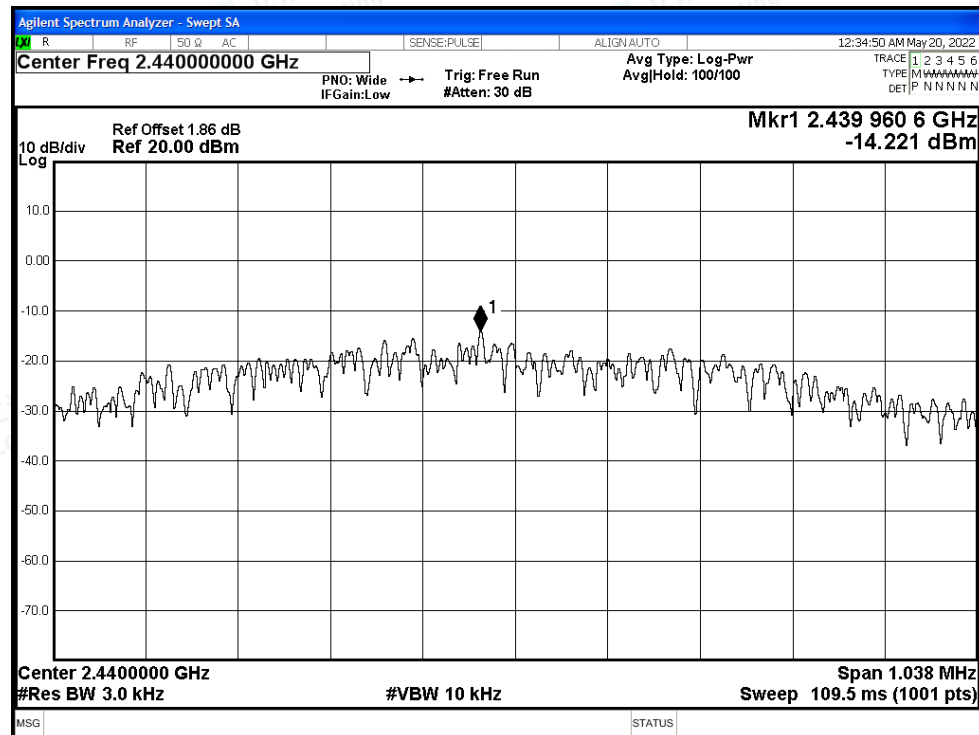


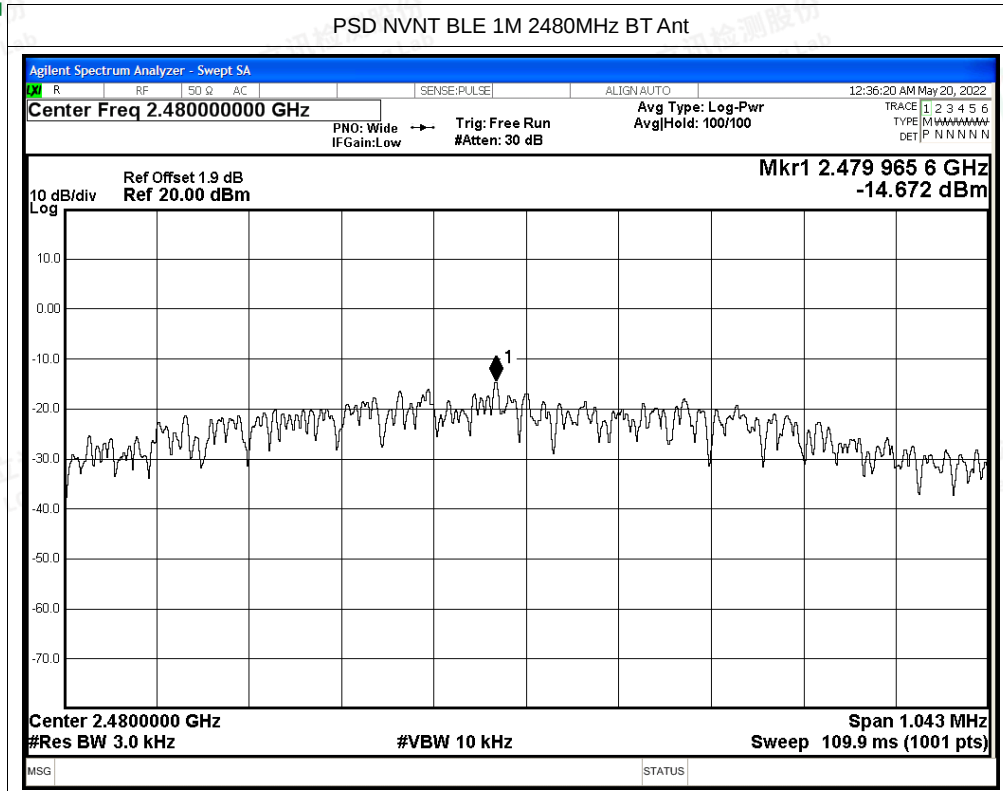
Test Graphs

PSD NVNT BLE 1M 2402MHz BT Ant



PSD NVNT BLE 1M 2440MHz BT Ant







B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	BT Ant	-55.44	-20	Pass
NVNT	BLE 1M	2480	BT Ant	-56.39	-20	Pass

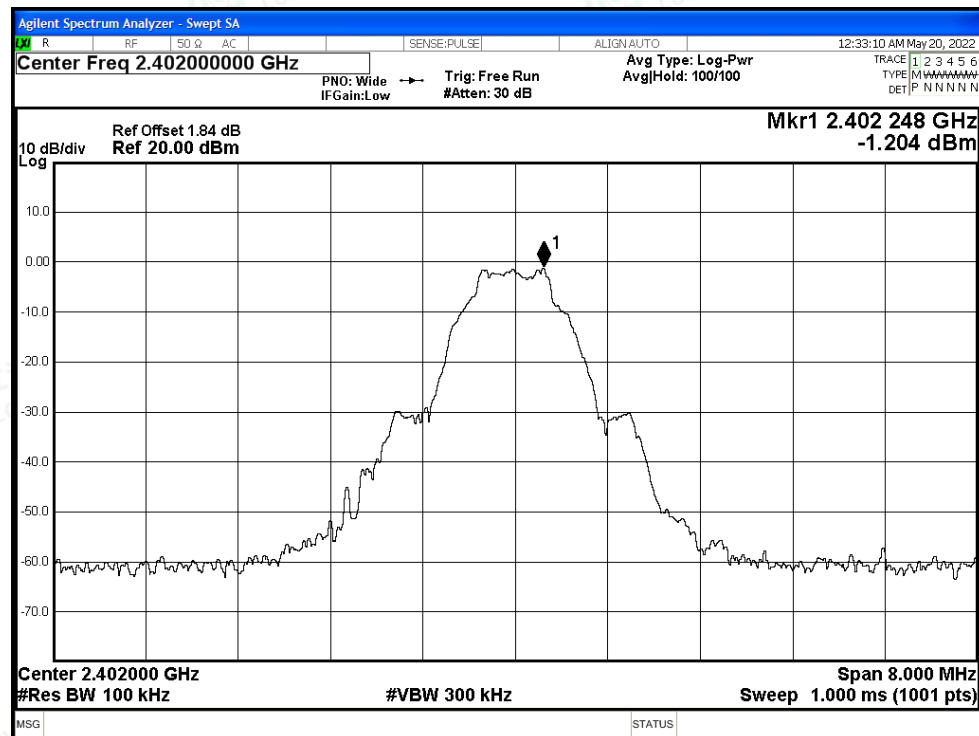


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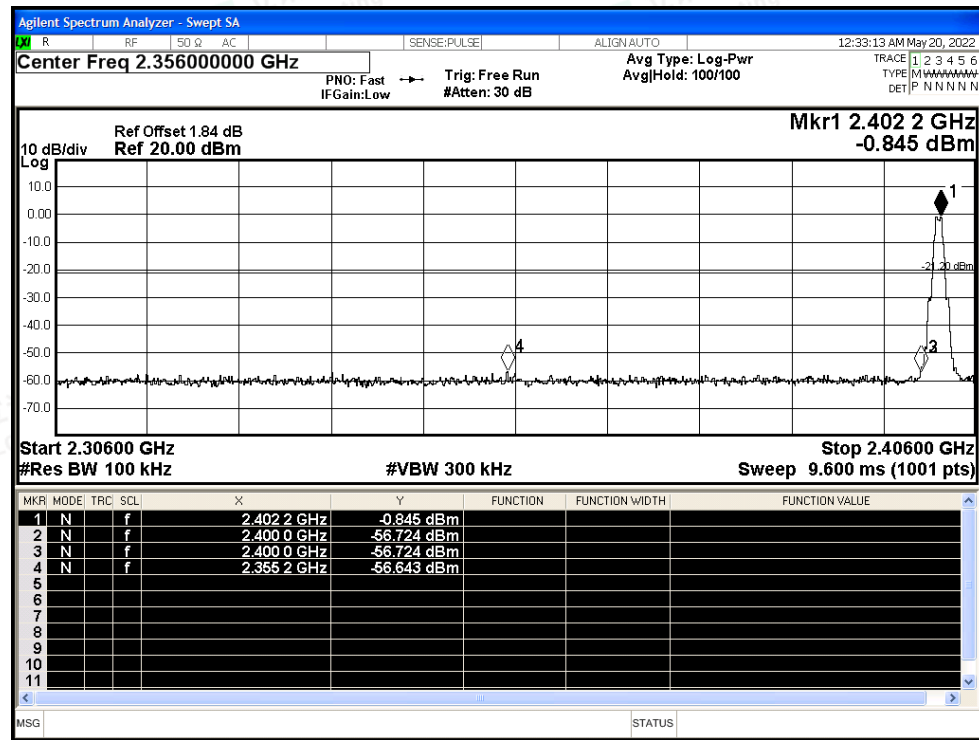


Test Graphs

Band Edge NVNT BLE 1M 2402MHz BT Ant Ref

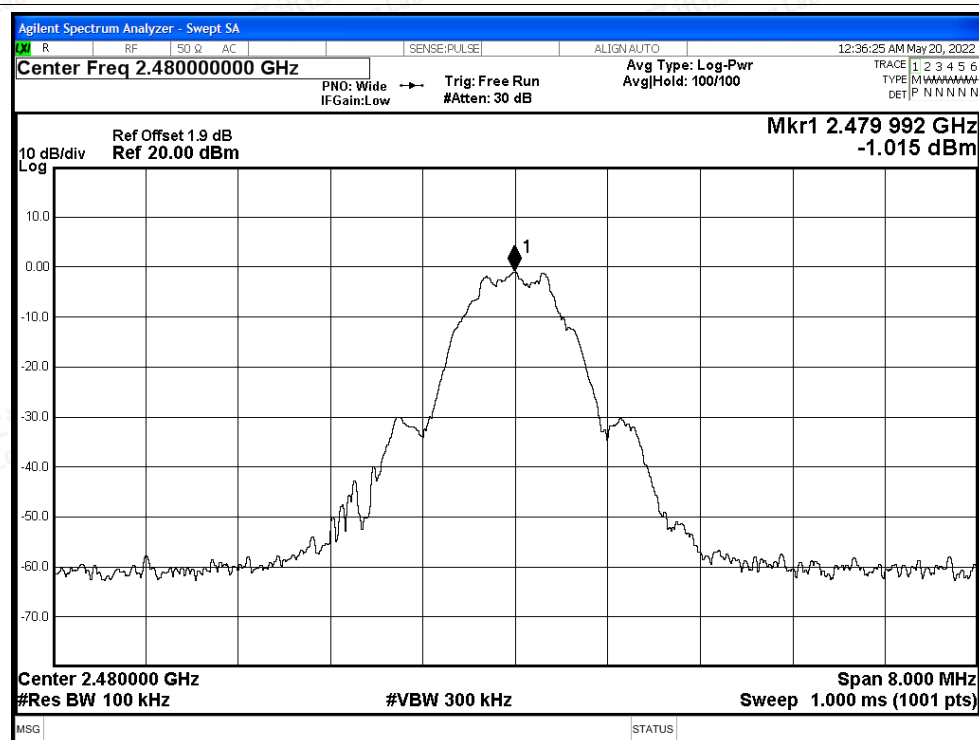


Band Edge NVNT BLE 1M 2402MHz BT Ant Emission

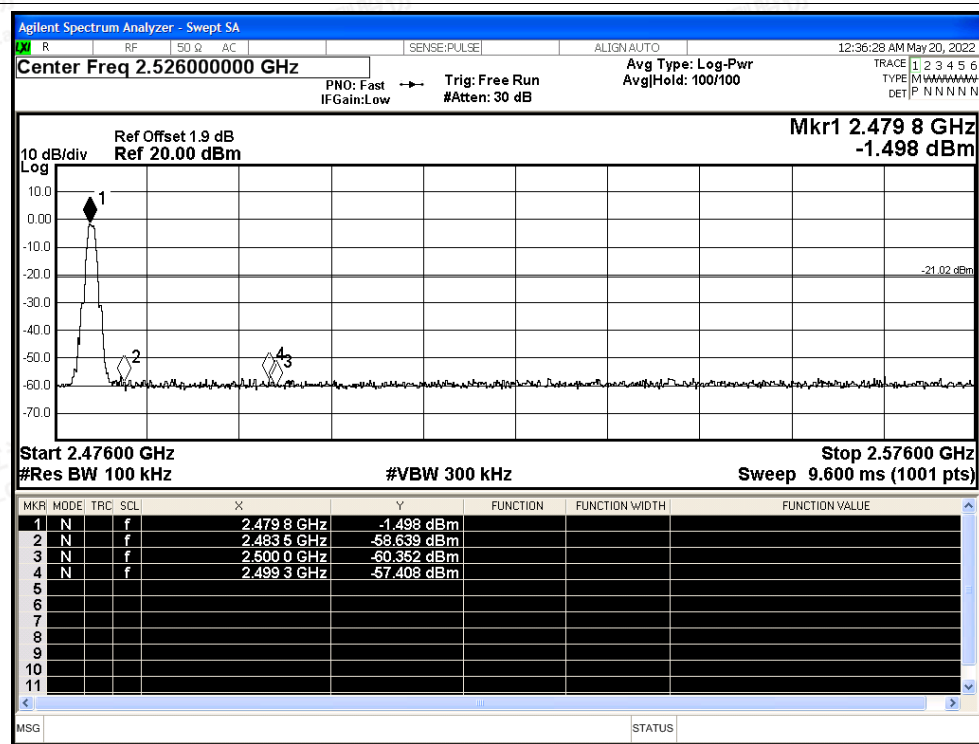




Band Edge NVNT BLE 1M 2480MHz BT Ant Ref



Band Edge NVNT BLE 1M 2480MHz BT Ant Emission





B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	BT Ant	-54.23	-20	Pass
NVNT	BLE 1M	2440	BT Ant	-55.15	-20	Pass
NVNT	BLE 1M	2480	BT Ant	-55.3	-20	Pass

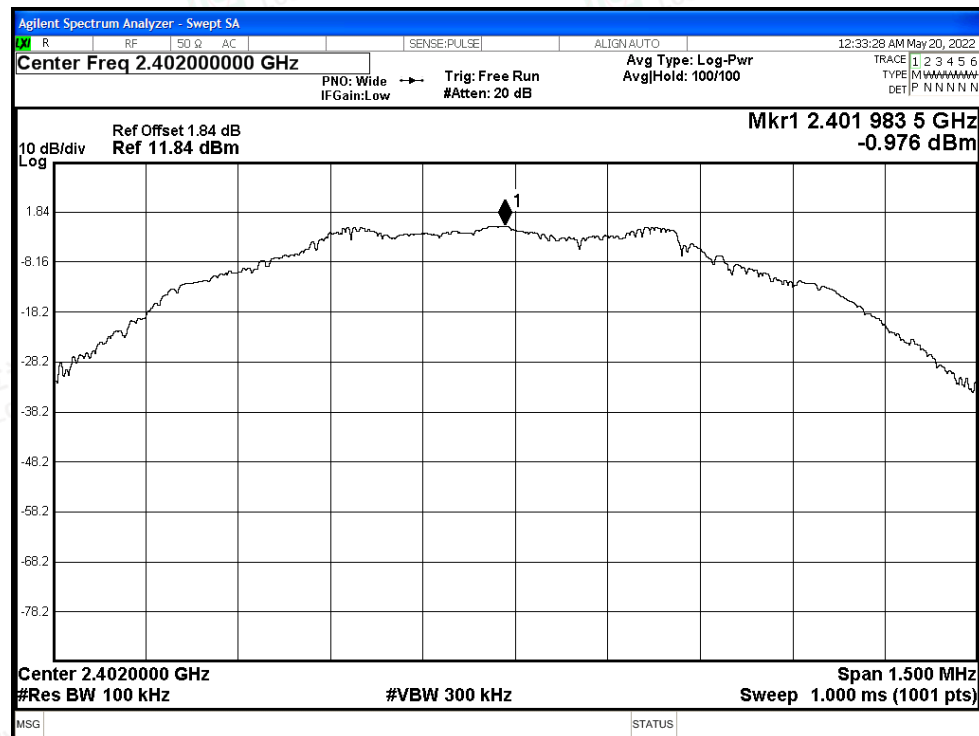


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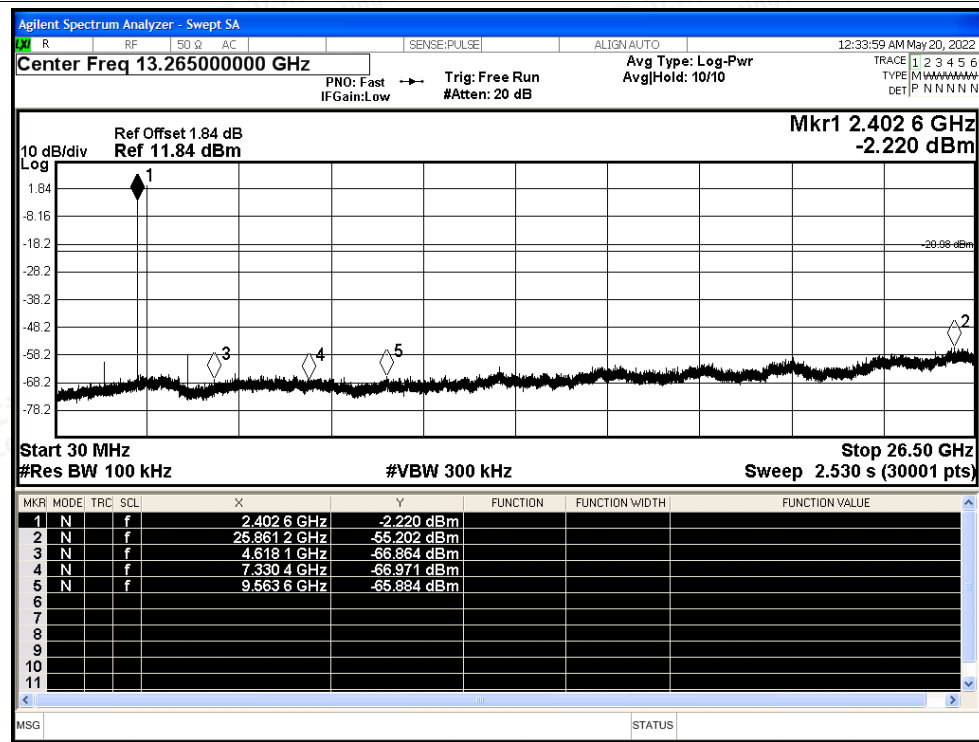


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz BT Ant Ref

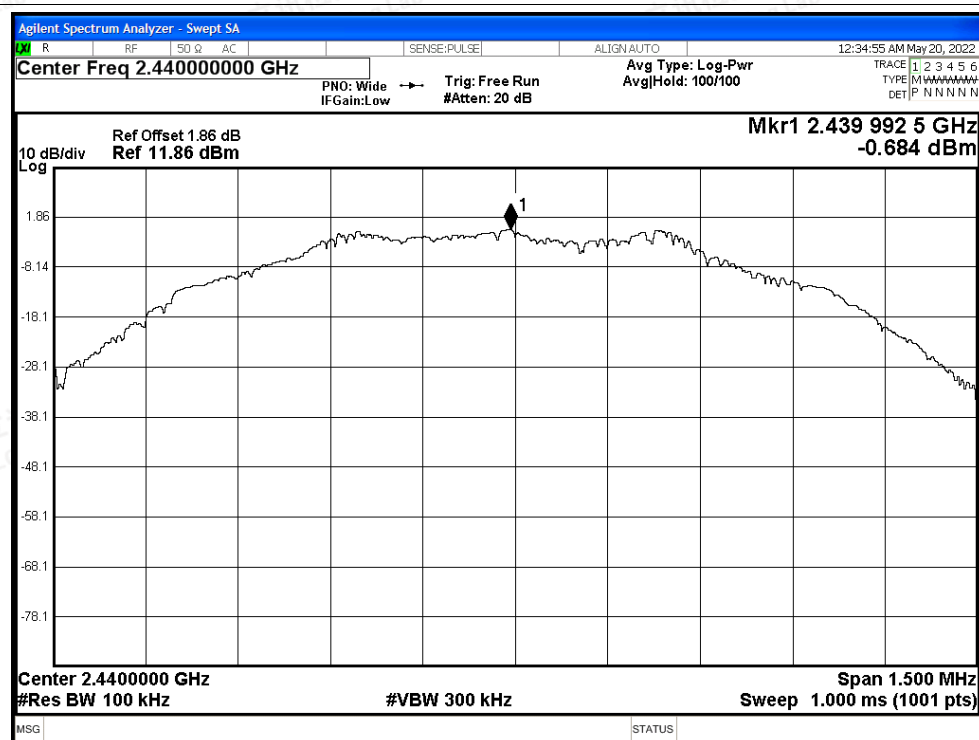


Tx. Spurious NVNT BLE 1M 2402MHz BT Ant Emission

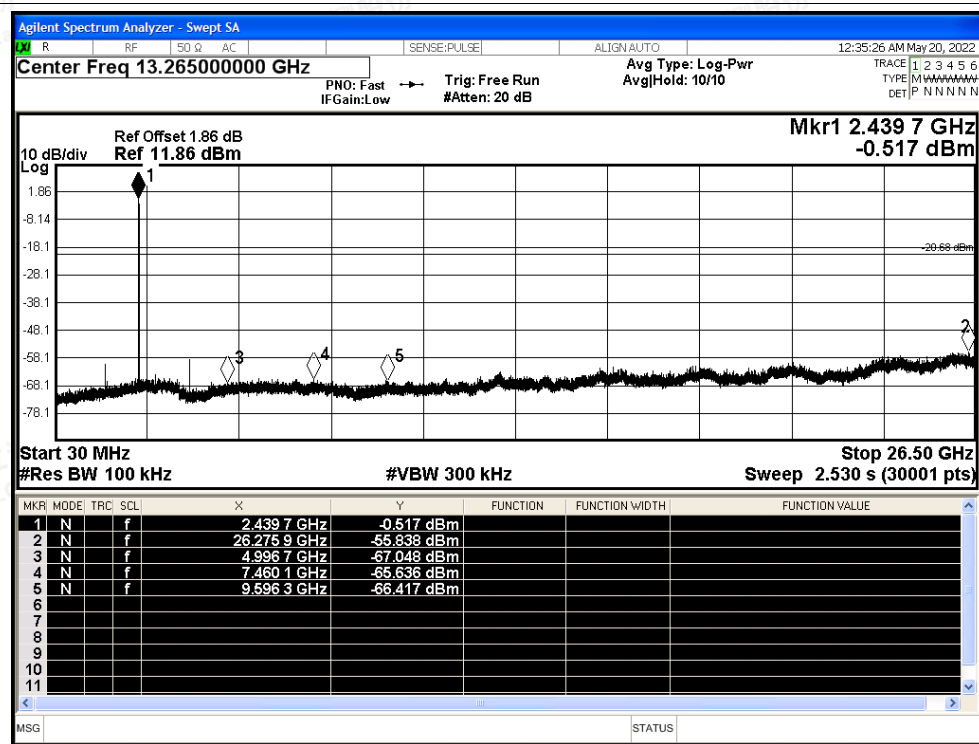




Tx. Spurious NVNT BLE 1M 2440MHz BT Ant Ref

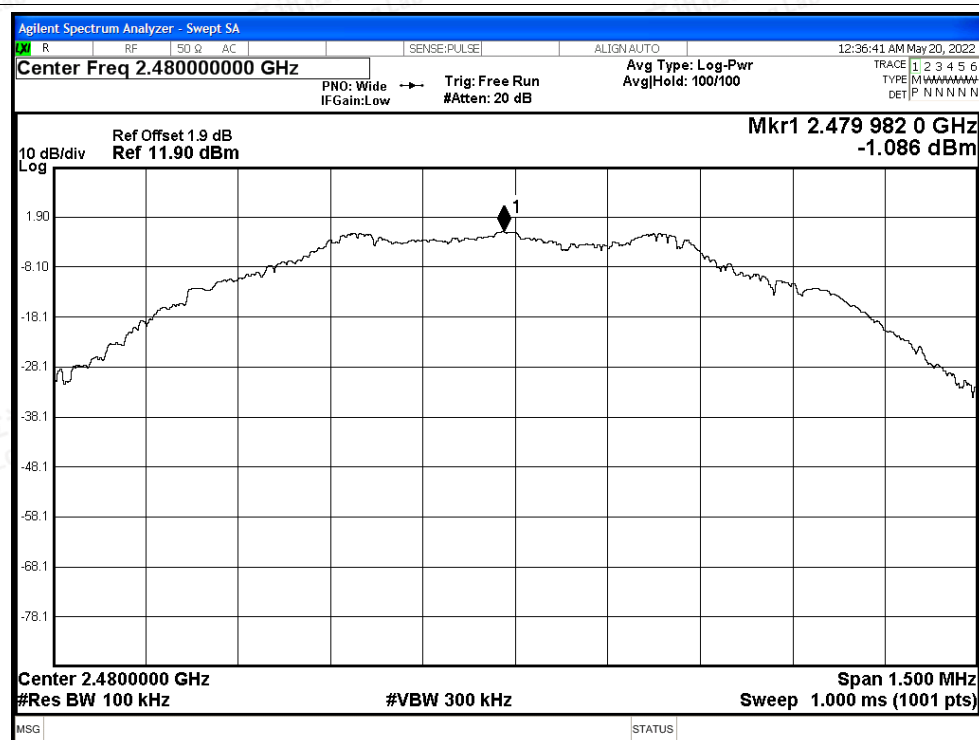


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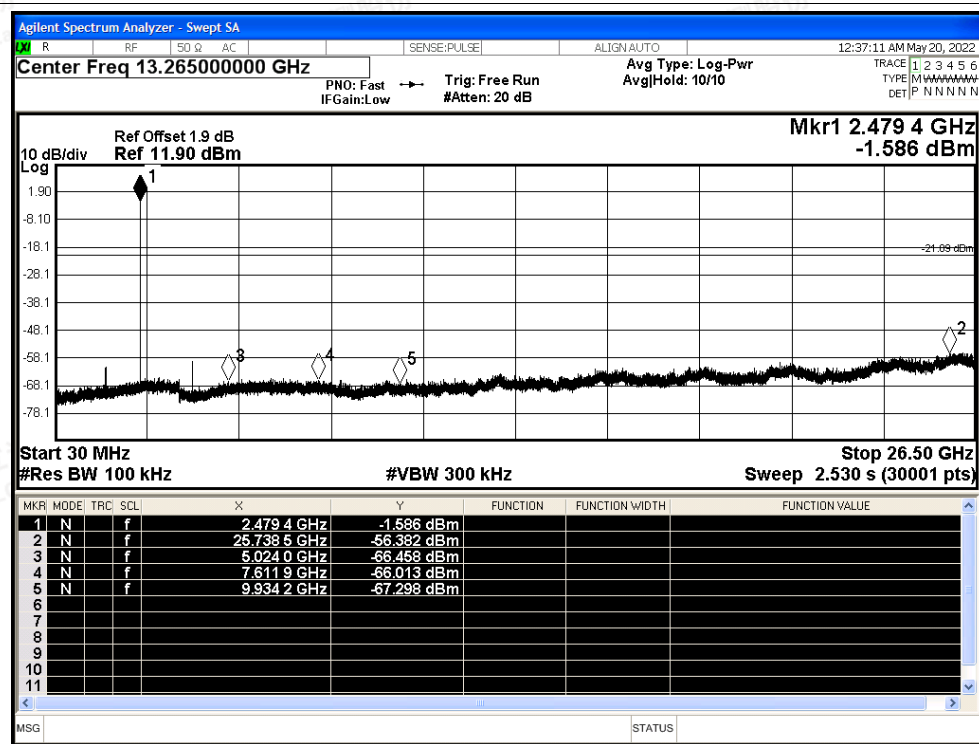




Tx. Spurious NVNT BLE 1M 2480MHz BT Ant Ref



Tx. Spurious NVNT BLE 1M 2480MHz BT Ant Emission





B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	BT Ant	62.59	2.03	2.55
NVNT	BLE 1M	2440	BT Ant	62.56	2.04	2.56
NVNT	BLE 1M	2480	BT Ant	62.59	2.03	2.55

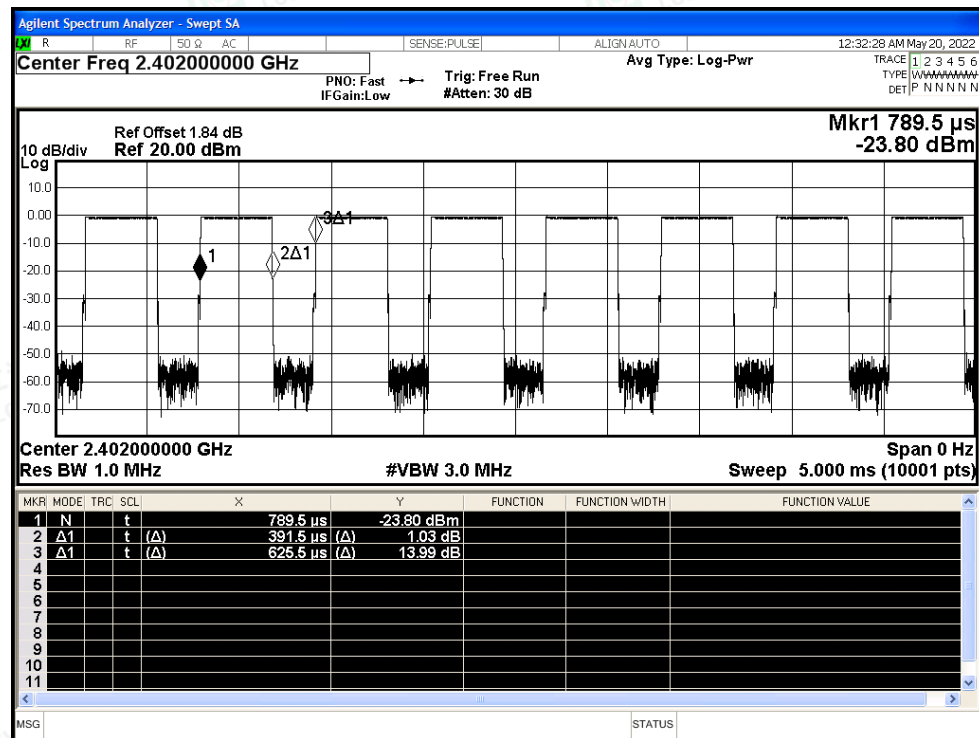


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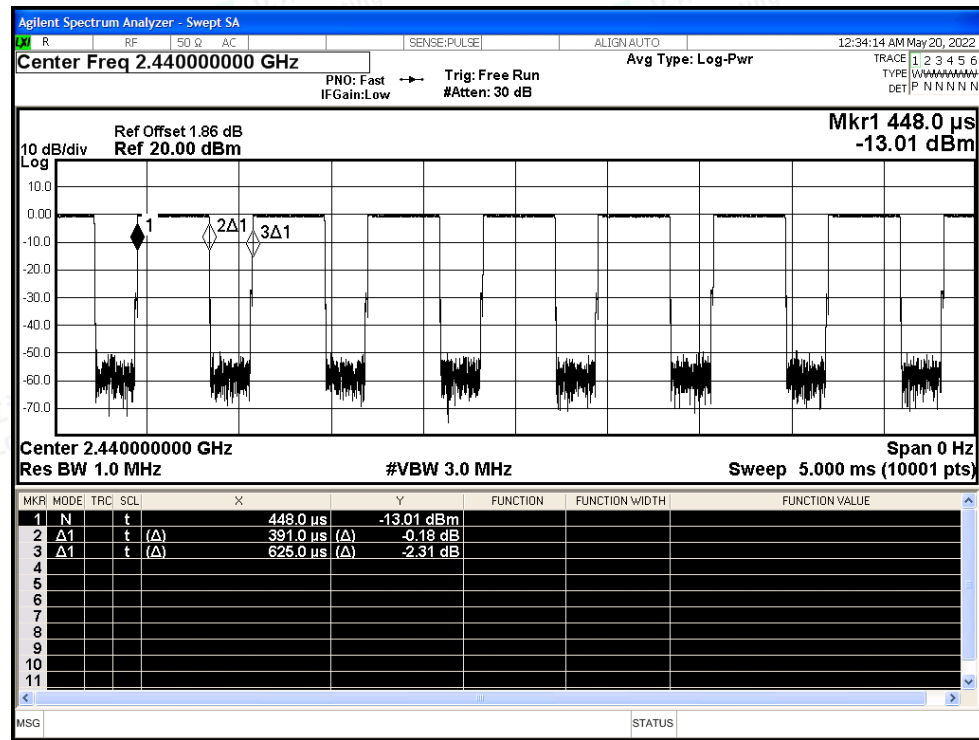


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz BT Ant

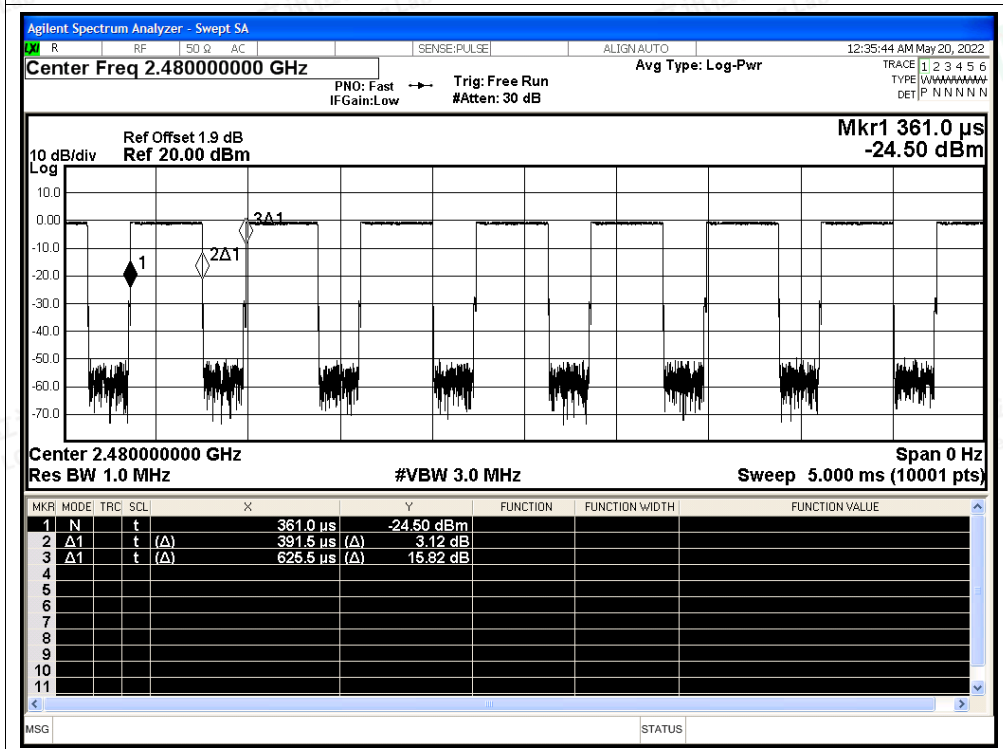


Duty Cycle NVNT BLE 1M 2440MHz BT Ant





Duty Cycle NVNT BLE 1M 2480MHz BT Ant





B.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	BT Ant	2310	-52.76	2.0	44.5	Peak	74	Pass
NVNT	BLE 1M	2402	BT Ant	2310	-59.67	2.0	37.59	Average	54	Pass
NVNT	BLE 1M	2402	BT Ant	2332.464	-48.26	2.0	49	Peak	74	Pass
NVNT	BLE 1M	2402	BT Ant	2387.664	-59.01	2.0	38.25	Average	54	Pass
NVNT	BLE 1M	2402	BT Ant	2390	-51.04	2.0	46.22	Peak	74	Pass
NVNT	BLE 1M	2402	BT Ant	2390	-59.38	2.0	37.88	Average	54	Pass
NVNT	BLE 1M	2480	BT Ant	2483.5	-50.22	2.0	47.04	Peak	74	Pass
NVNT	BLE 1M	2480	BT Ant	2483.5	-58.99	2.0	38.27	Average	54	Pass
NVNT	BLE 1M	2480	BT Ant	2484.256	-46.09	2.0	51.17	Peak	74	Pass
NVNT	BLE 1M	2480	BT Ant	2484.616	-58.68	2.0	38.58	Average	54	Pass
NVNT	BLE 1M	2480	BT Ant	2500	-50.74	2.0	46.52	Peak	74	Pass
NVNT	BLE 1M	2480	BT Ant	2500	-59.13	2.0	38.13	Average	54	Pass

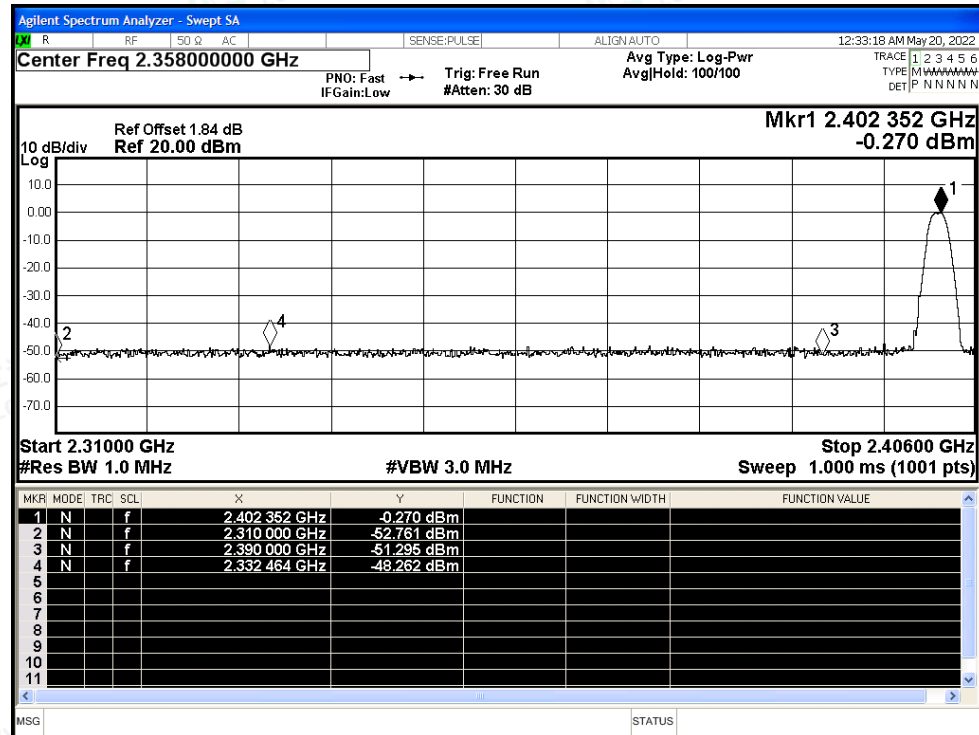


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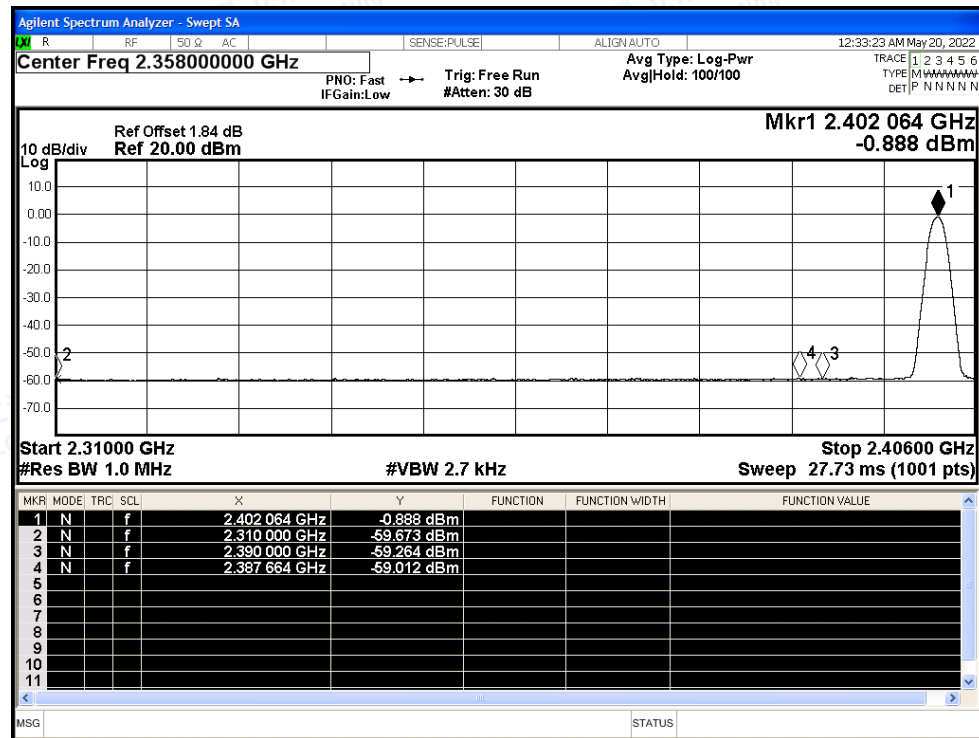


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz BT Ant Peak



Restrict Band NVNT BLE 1M 2402MHz BT Ant Average



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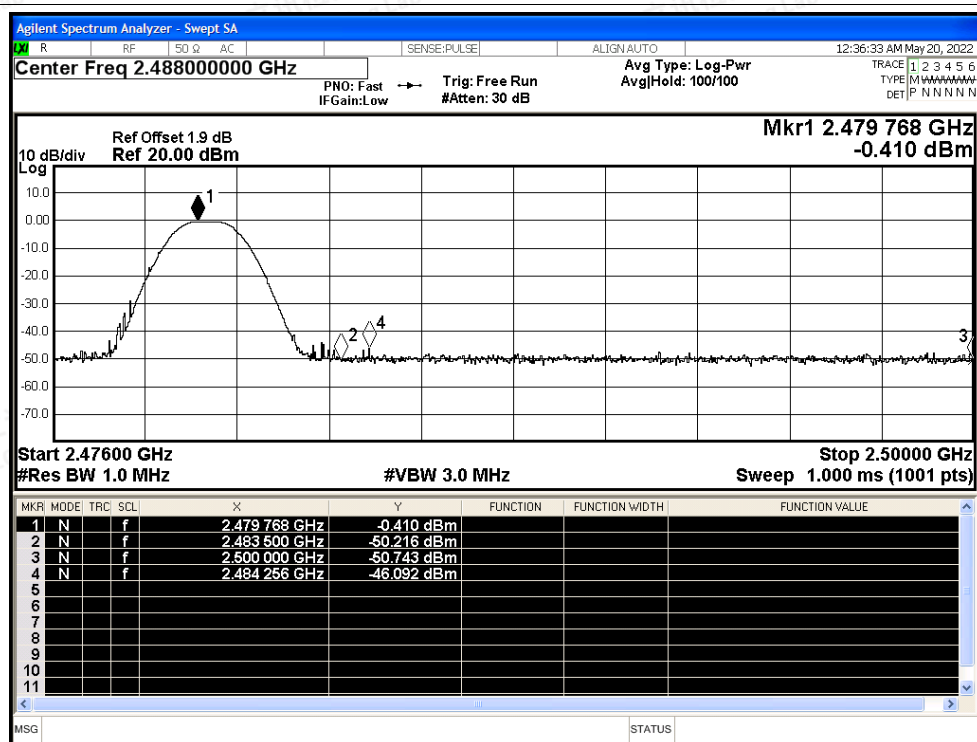
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Restrict Band NVNT BLE 1M 2480MHz BT Ant Peak



Restrict Band NVNT BLE 1M 2480MHz BT Ant Average

