



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: All in one pc

Test Model: XPS24M

Environmental Conditions

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



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B.1 -6dB Bandwidth

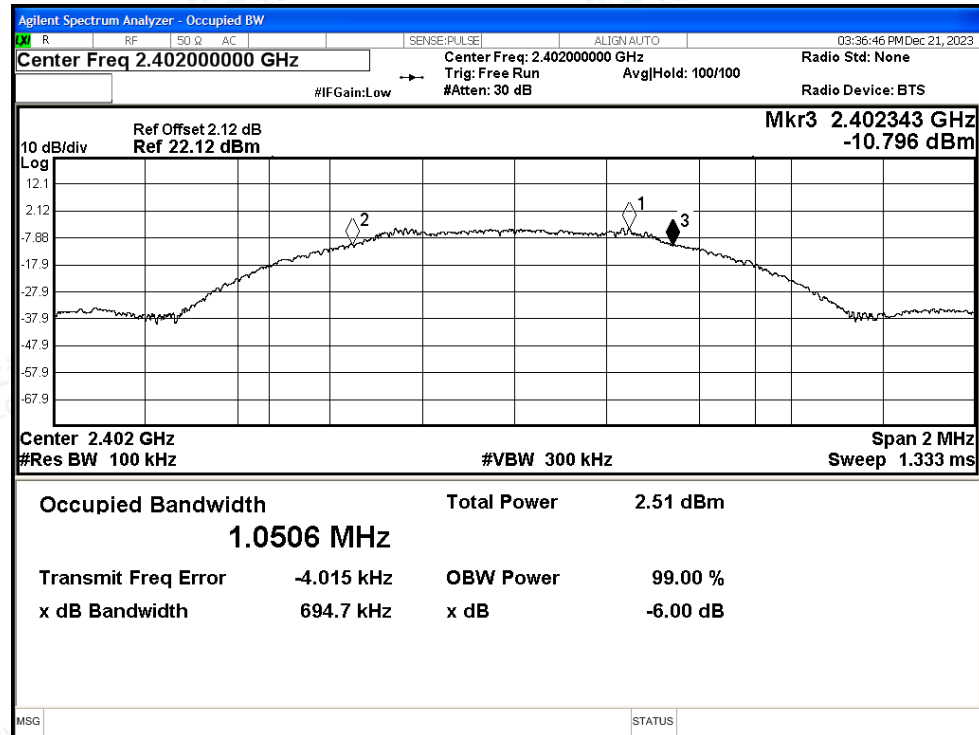
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	BT ANT	0.695	≥ 0.5	Pass
NVNT	BLE	2440	BT ANT	0.657	≥ 0.5	Pass
NVNT	BLE	2480	BT ANT	0.657	≥ 0.5	Pass



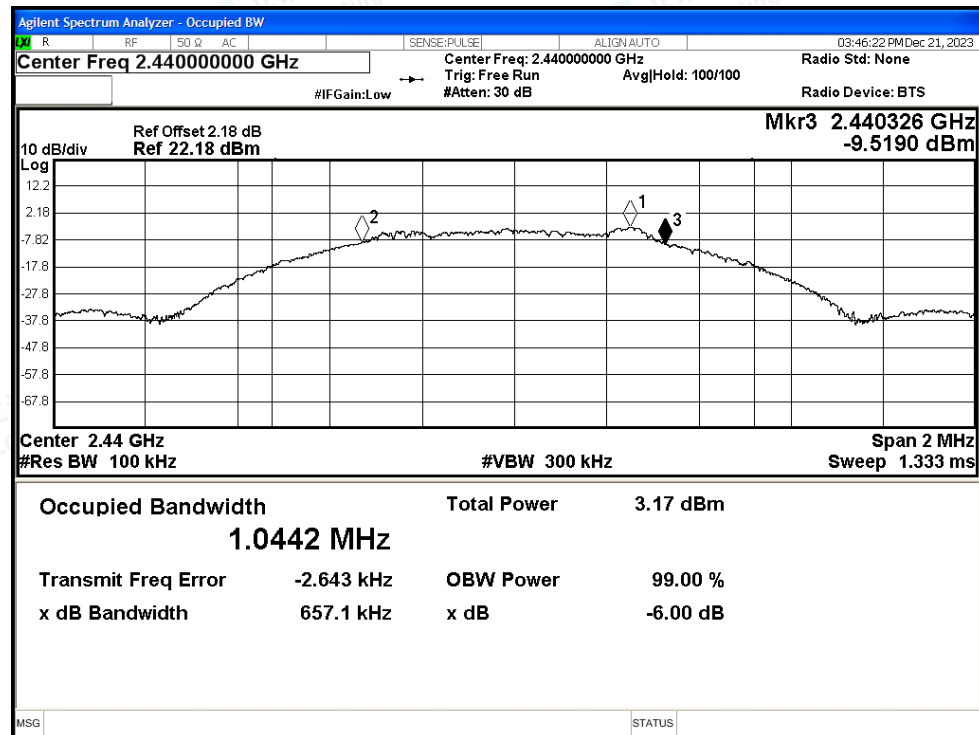


Test Graphs

-6dB Bandwidth NVNT BLE 2402MHz BT ANT



-6dB Bandwidth NVNT BLE 2440MHz BT ANT

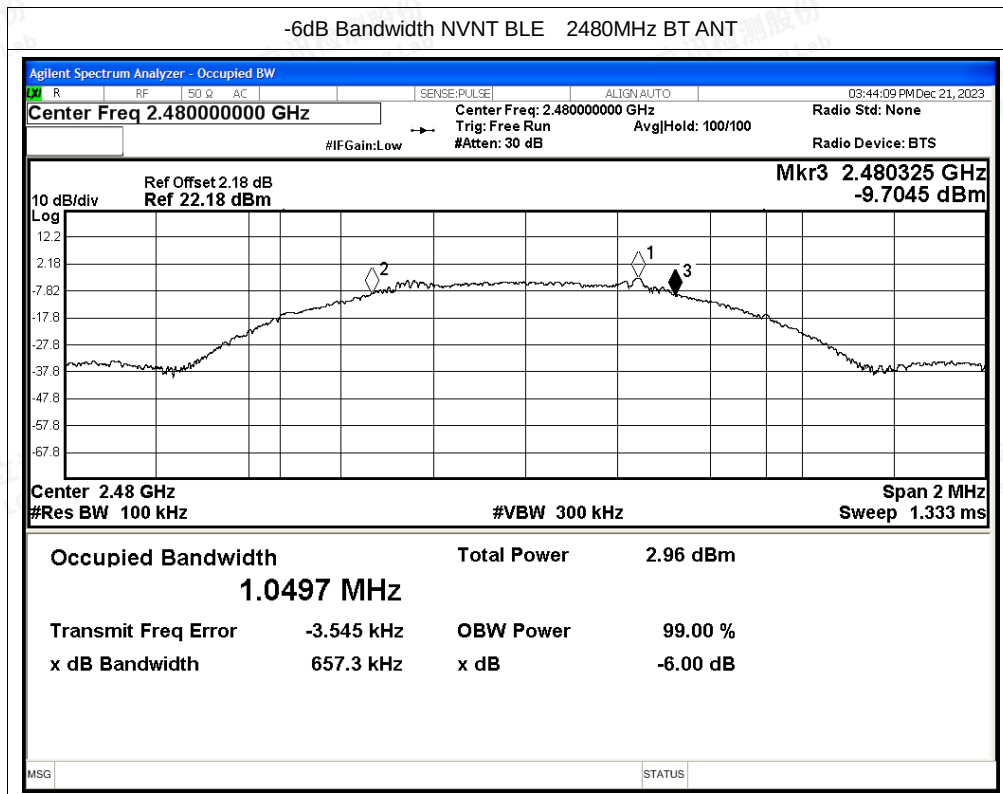


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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	BT ANT	-3.23	30	Pass
NVNT	BLE	2440	BT ANT	-2.76	30	Pass
NVNT	BLE	2480	BT ANT	-2.85	30	Pass

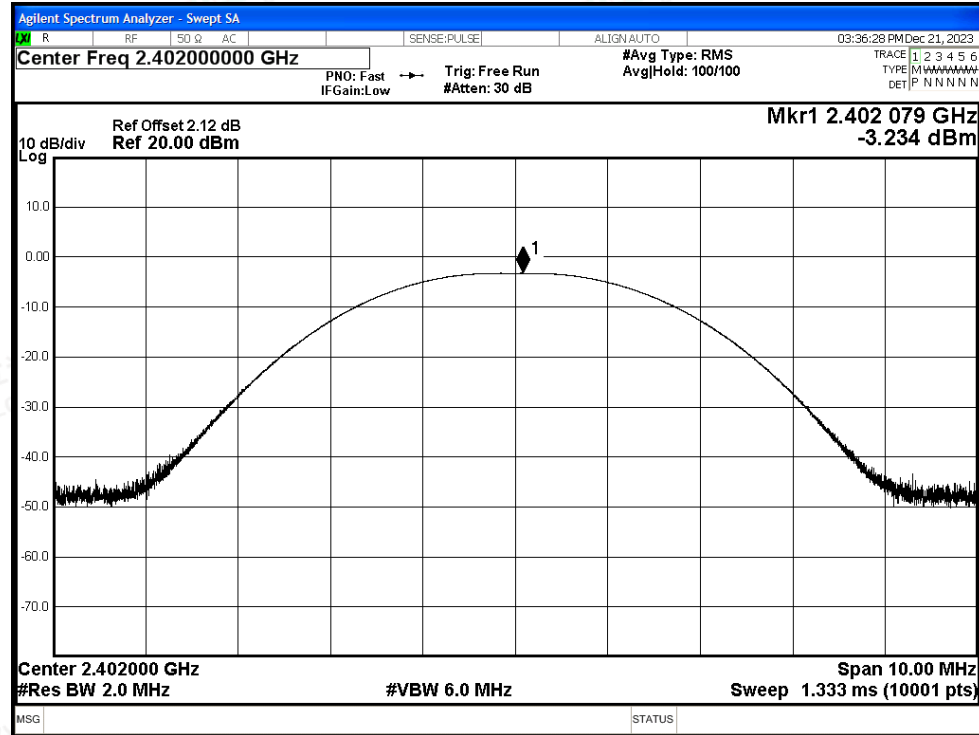


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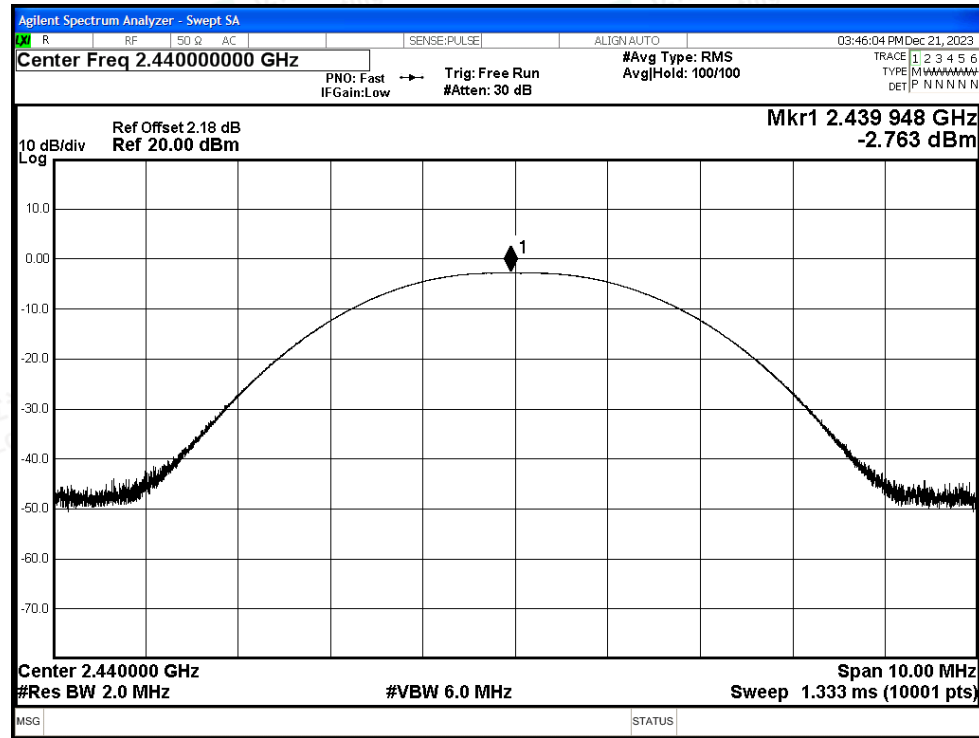


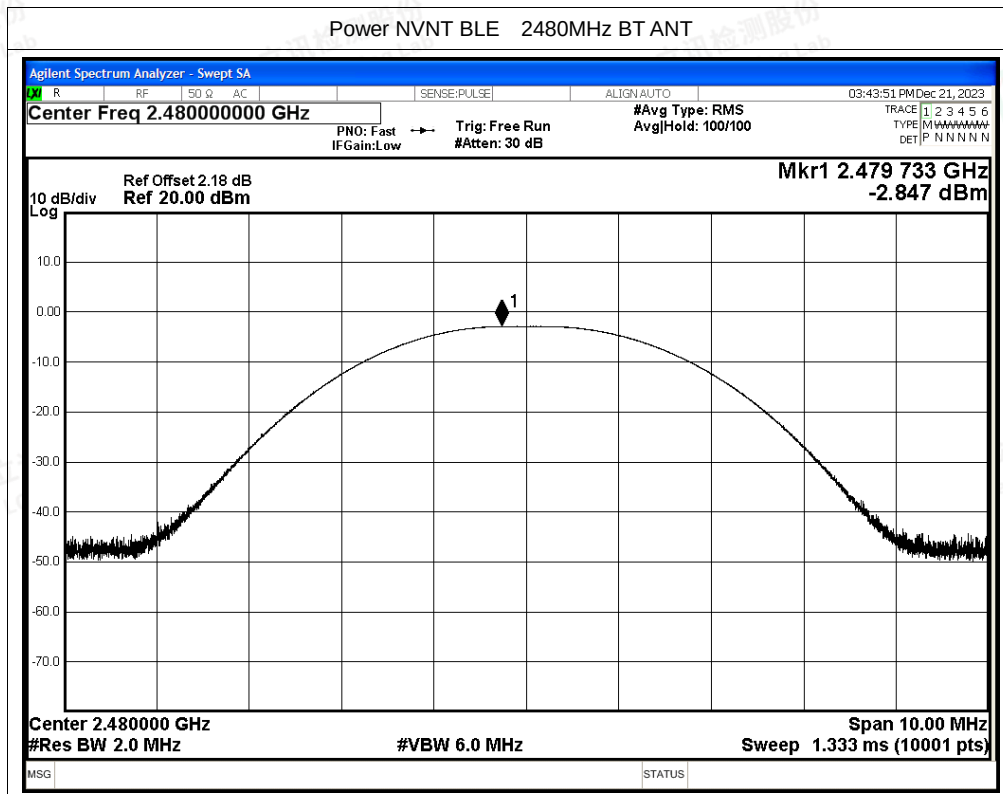
Test Graphs

Power NVNT BLE 2402MHz BT ANT



Power NVNT BLE 2440MHz BT ANT







B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE	2402	BT ANT	-19.84	8	Pass
NVNT	BLE	2440	BT ANT	-19.18	8	Pass
NVNT	BLE	2480	BT ANT	-19.48	8	Pass

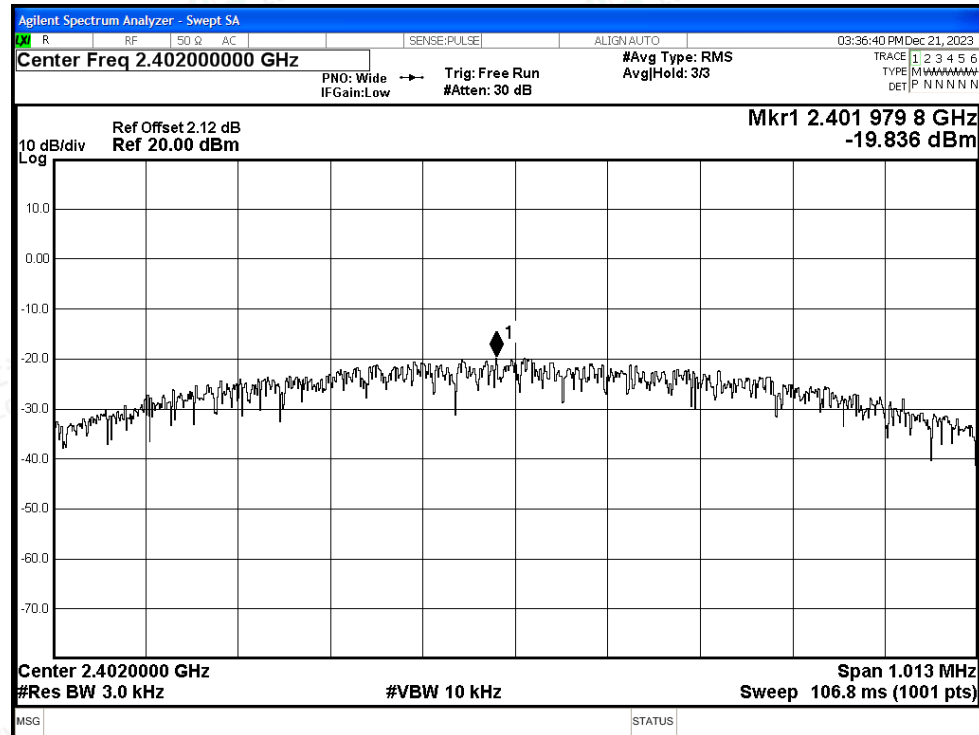


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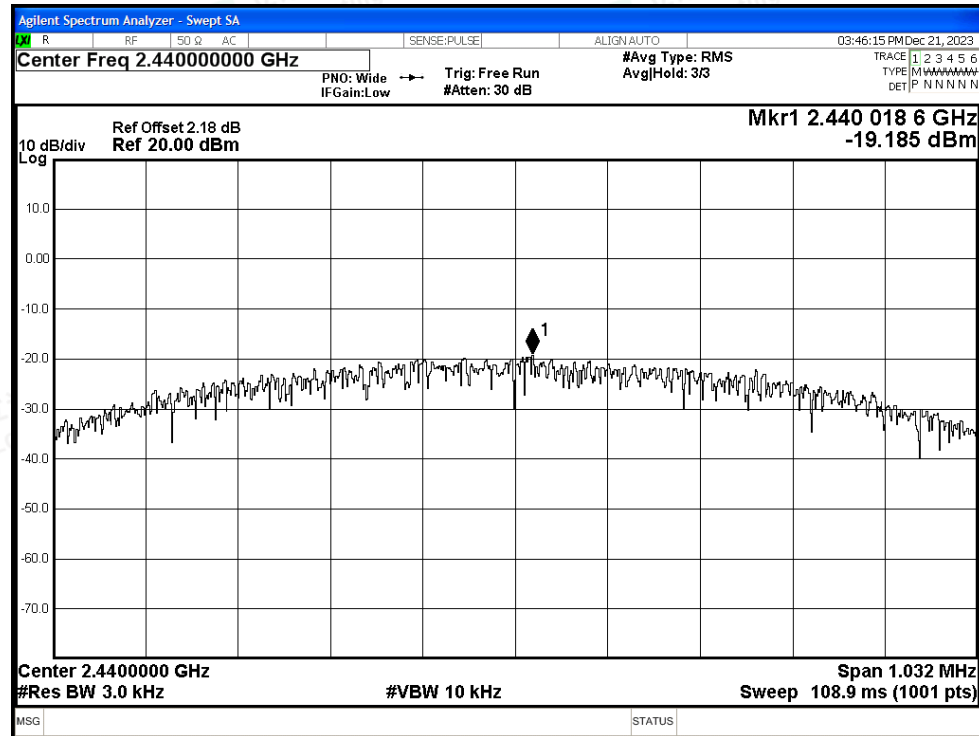


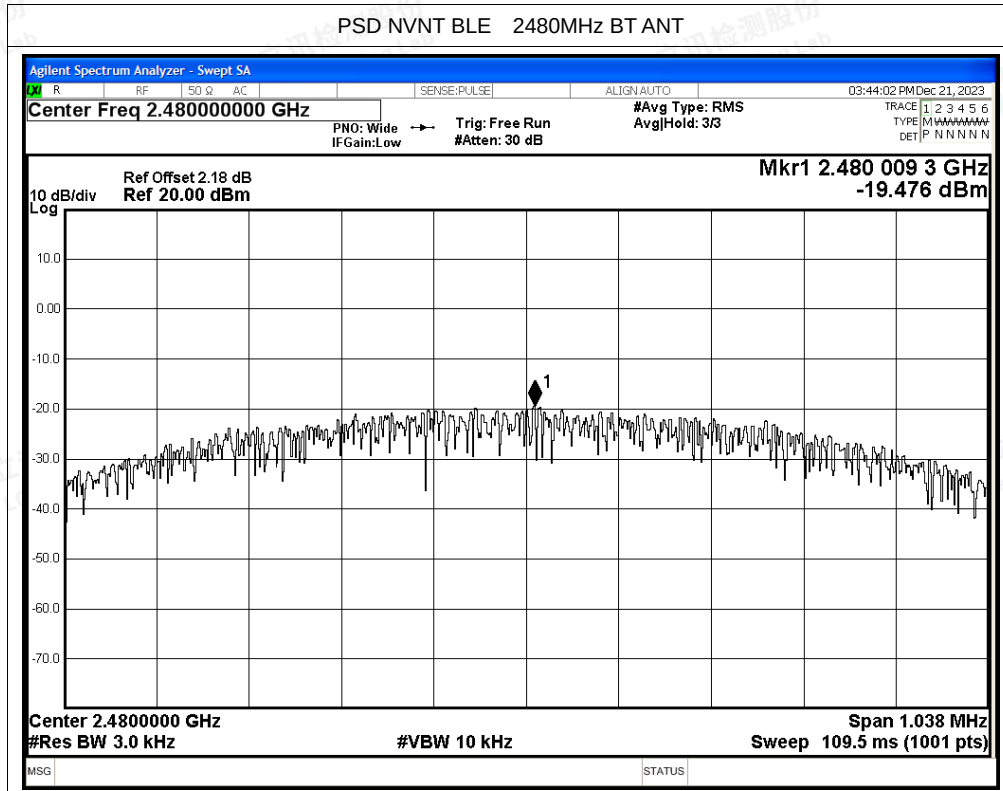
Test Graphs

PSD NVNT BLE 2402MHz BT ANT



PSD NVNT BLE 2440MHz BT ANT







B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	BT ANT	-52.19	-20	Pass
NVNT	BLE	2480	BT ANT	-53.36	-20	Pass

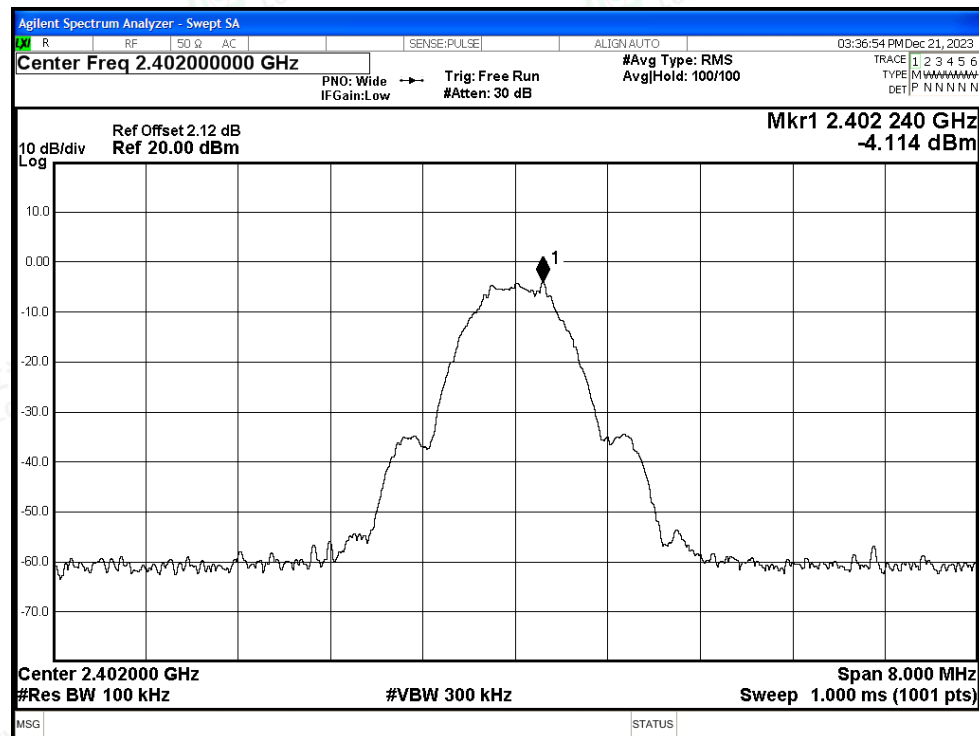


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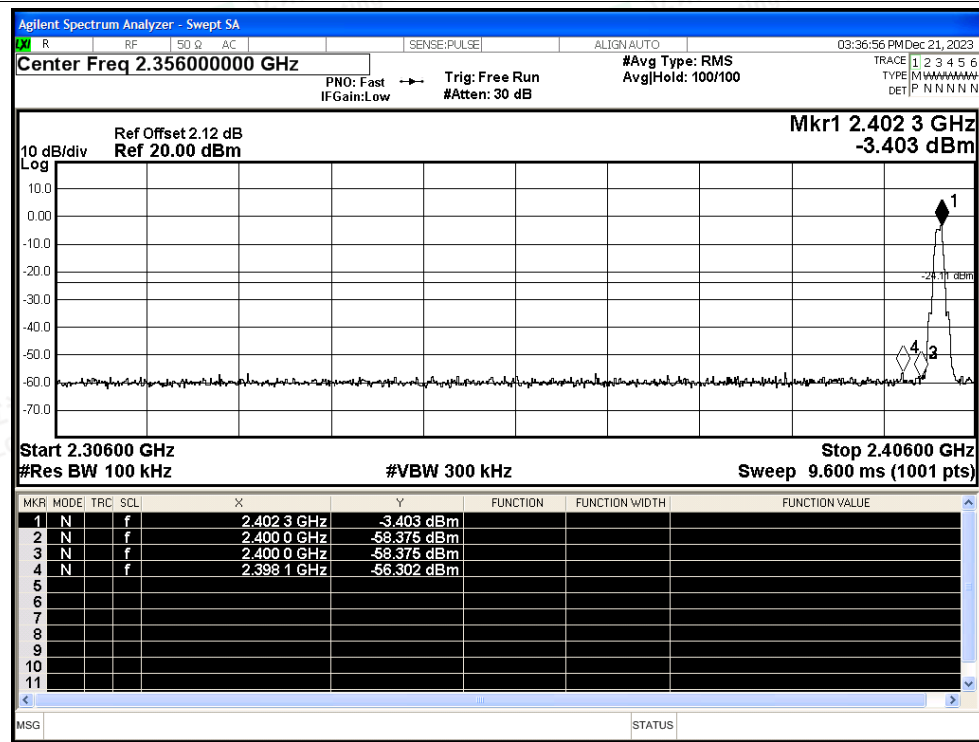


Test Graphs

Band Edge NVNT BLE 2402MHz BT ANT Ref



Band Edge NVNT BLE 2402MHz BT ANT Emission



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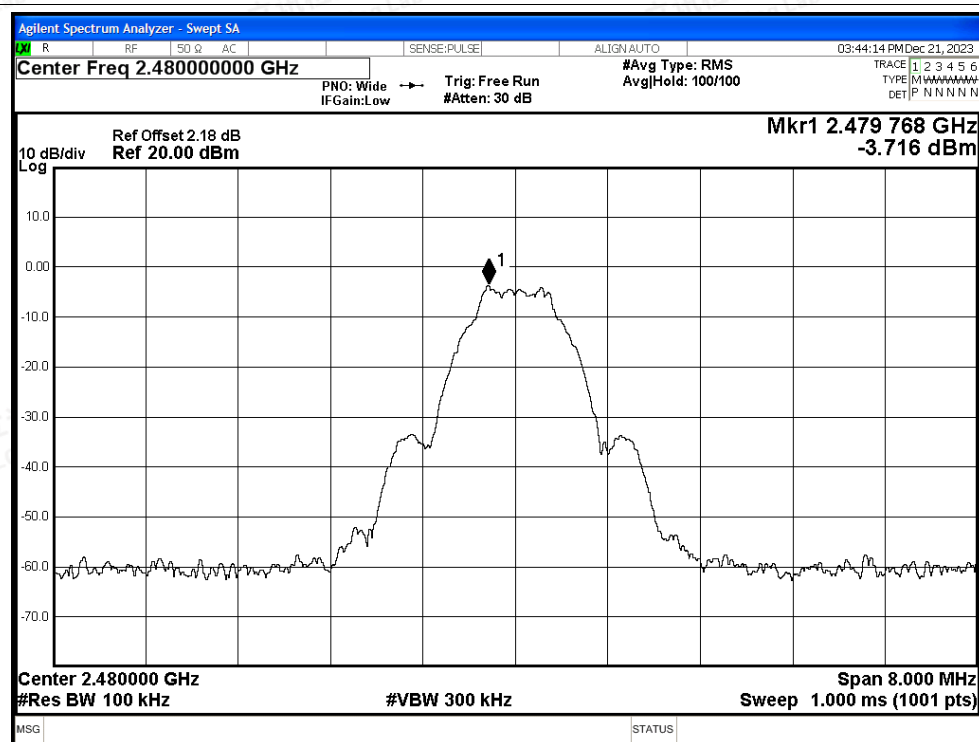
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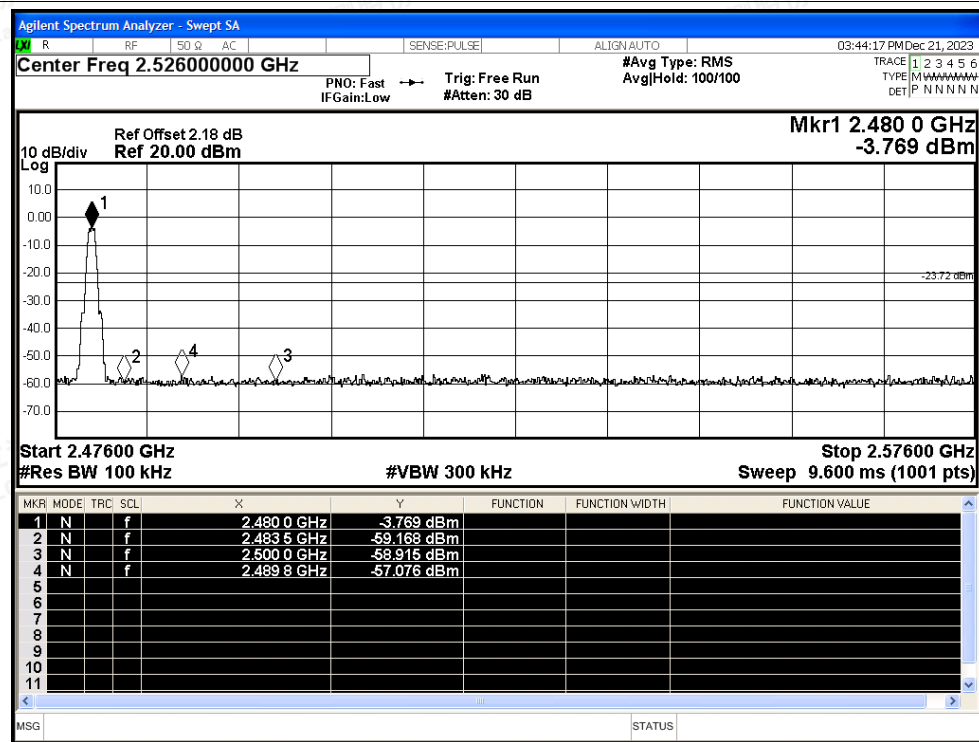
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Band Edge NVNT BLE 2480MHz BT ANT Ref



Band Edge NVNT BLE 2480MHz BT ANT Emission





B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	BT ANT	-51.94	-20	Pass
NVNT	BLE	2440	BT ANT	-50.3	-20	Pass
NVNT	BLE	2480	BT ANT	-51.84	-20	Pass

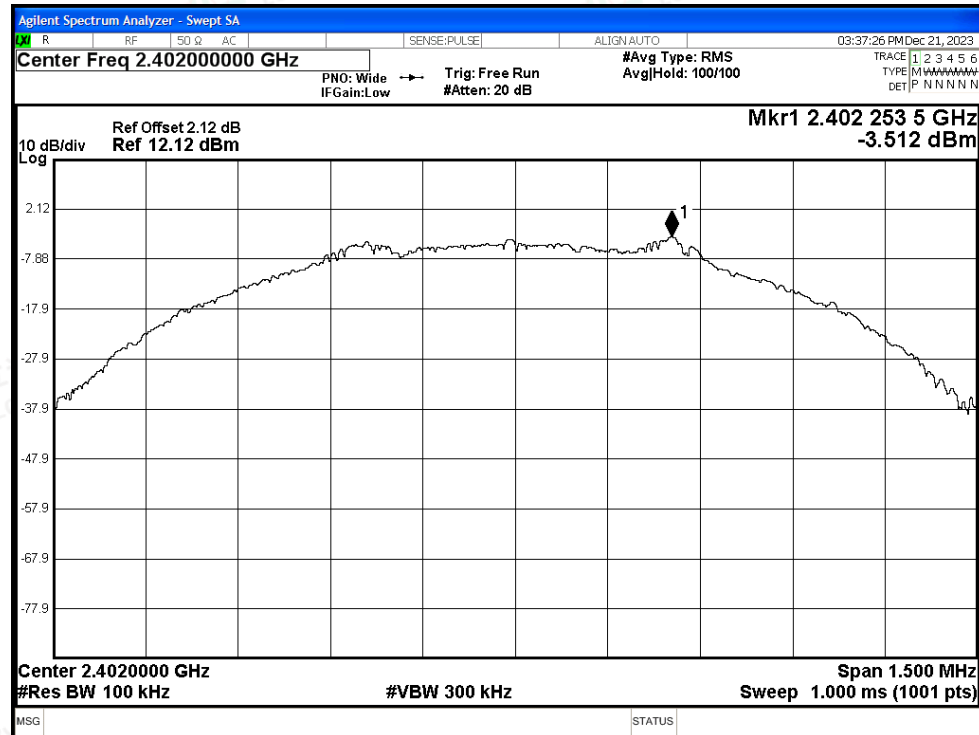


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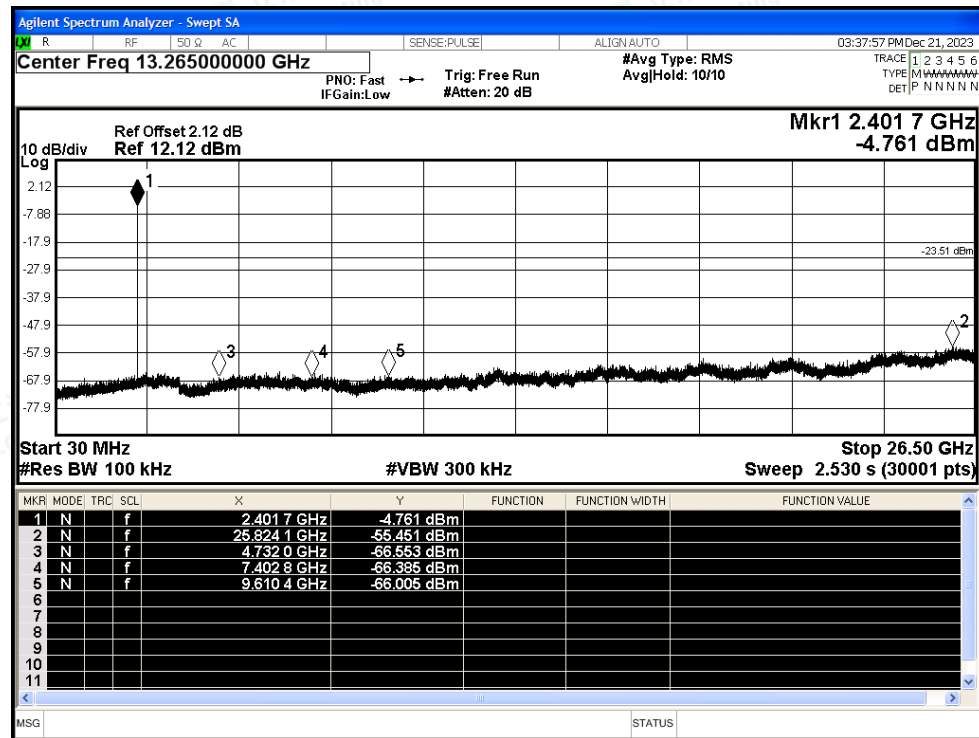


Test Graphs

Tx. Spurious NVNT BLE 2402MHz BT ANT Ref



Tx. Spurious NVNT BLE 2402MHz BT ANT Emission



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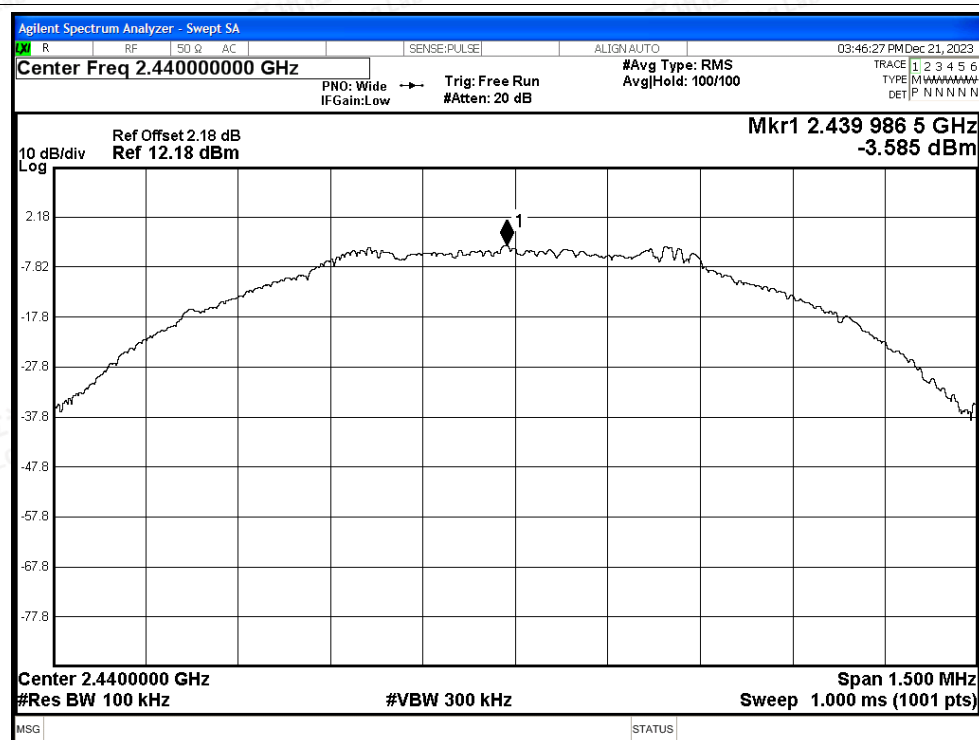
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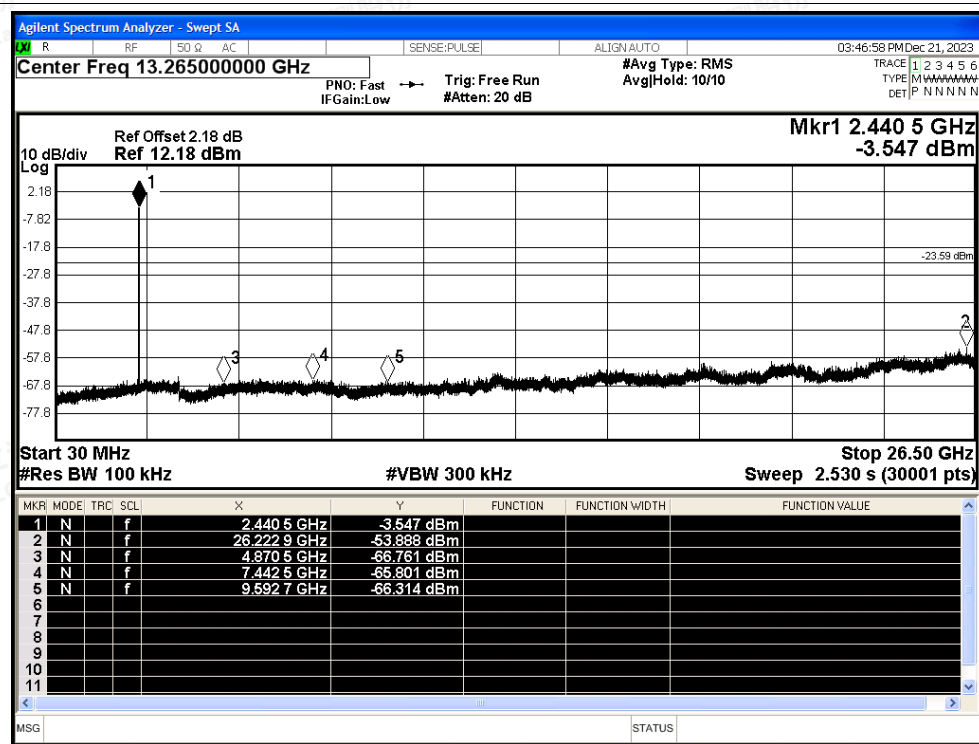
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Tx. Spurious NVNT BLE 2440MHz BT ANT Ref



Tx. Spurious NVNT BLE 2440MHz BT ANT Emission



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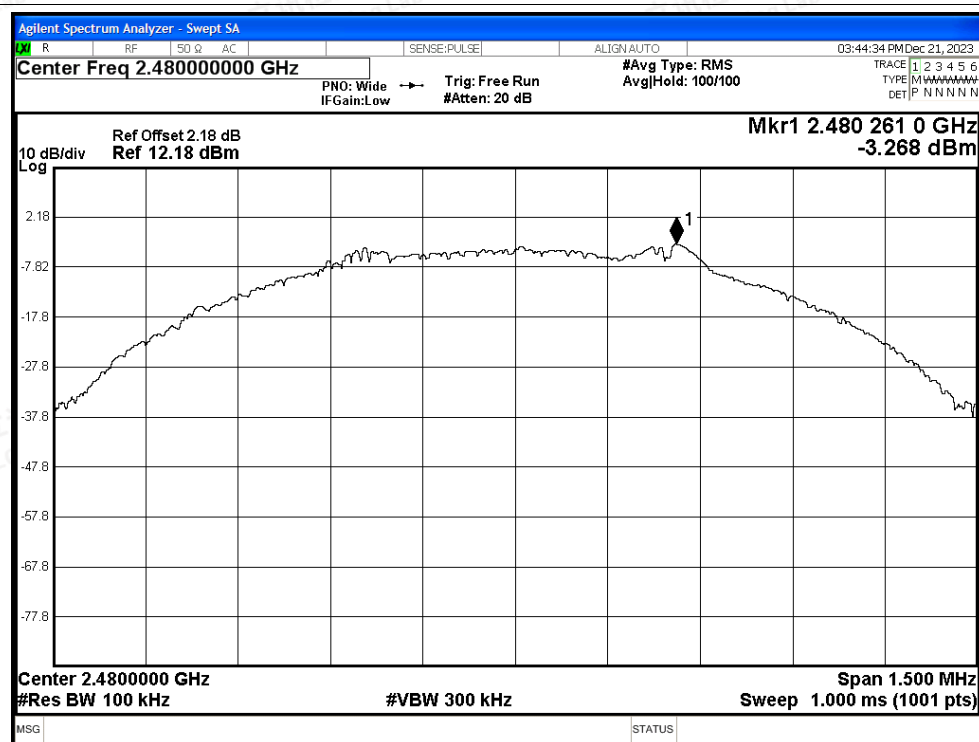
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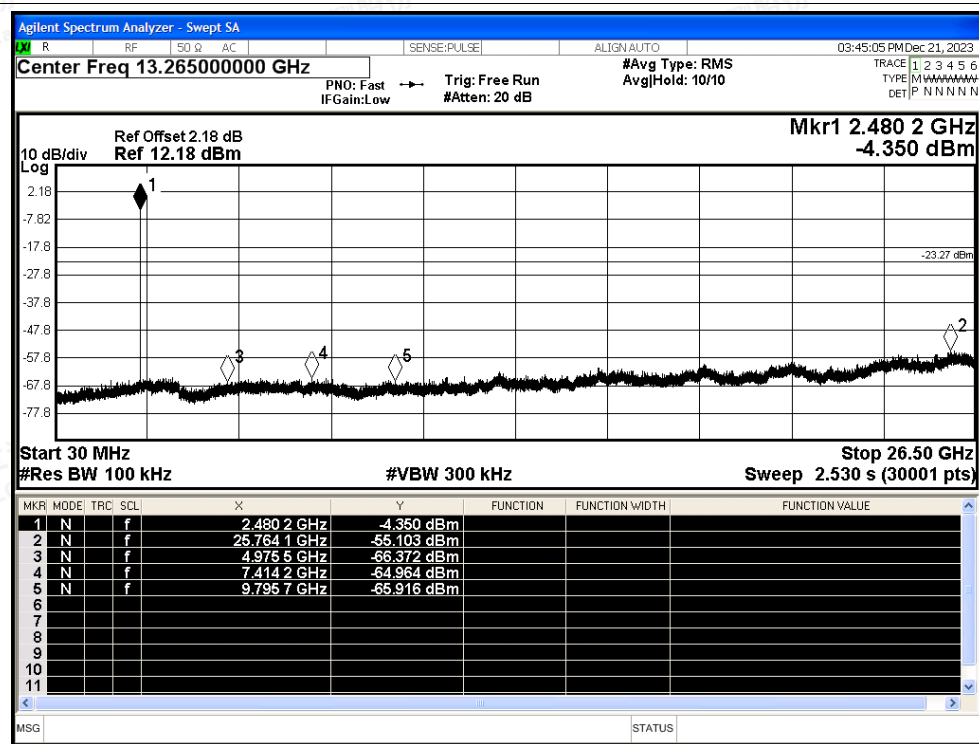
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Tx. Spurious NVNT BLE 2480MHz BT ANT Ref



Tx. Spurious NVNT BLE 2480MHz BT ANT Emission





B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE	2402	BT ANT	85.1	0.7	0.47
NVNT	BLE	2440	BT ANT	85.1	0.7	0.47
NVNT	BLE	2480	BT ANT	85.1	0.7	0.47

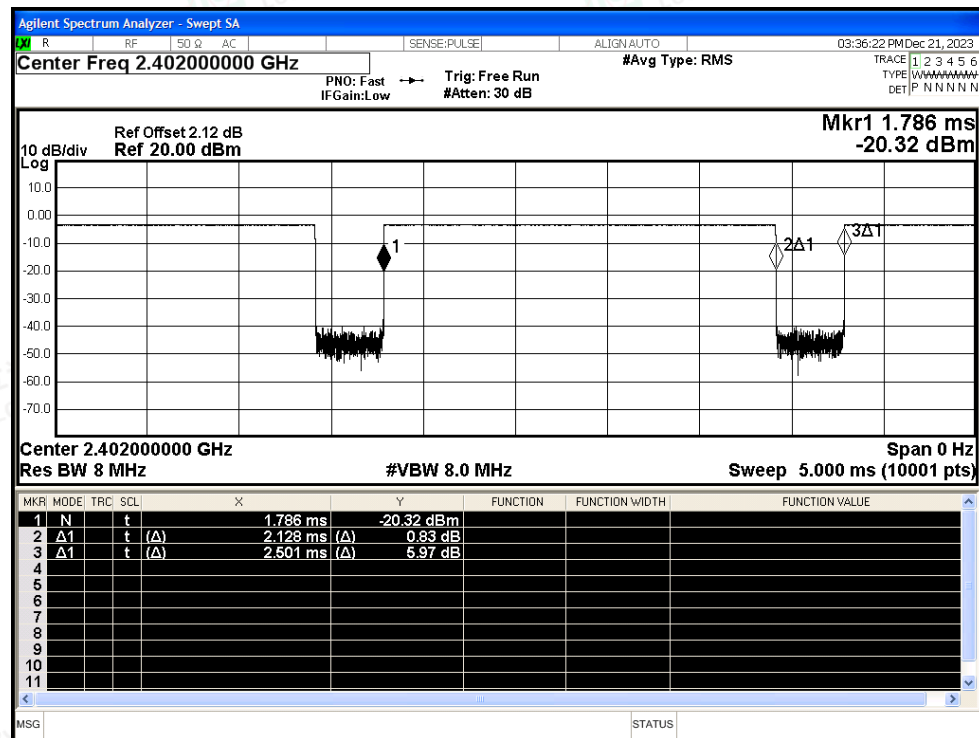


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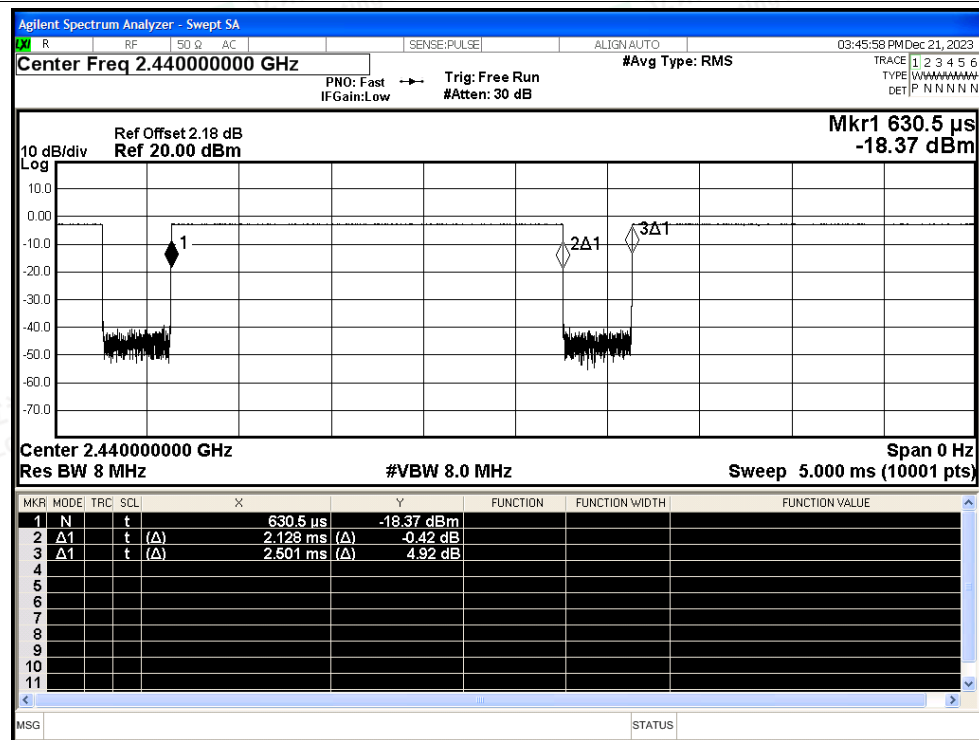


Test Graphs

Duty Cycle NVNT BLE 2402MHz BT ANT



Duty Cycle NVNT BLE 2440MHz BT ANT

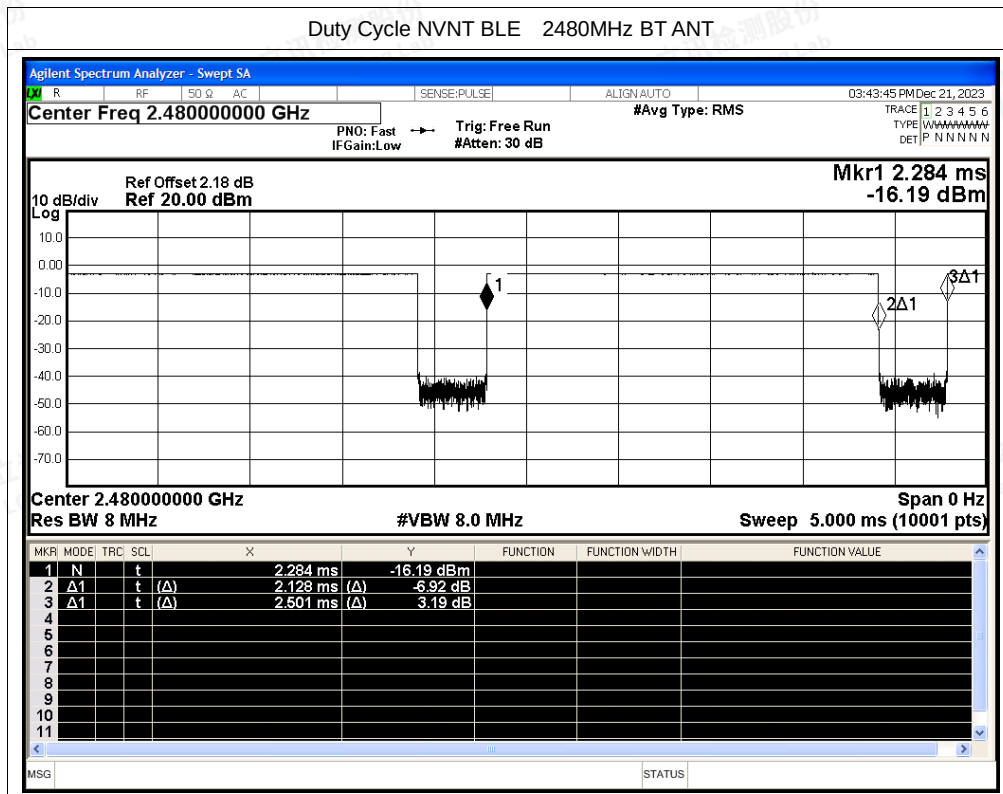


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B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE	2402	BT ANT	2310	-50.93	2	46.33	Peak	74	Pass
NVNT	BLE	2402	BT ANT	2310	-57.75	2	39.51	Average	54	Pass
NVNT	BLE	2402	BT ANT	2362.32	-47.23	2	50.03	Peak	74	Pass
NVNT	BLE	2402	BT ANT	2369.904	-57.24	2	40.02	Average	54	Pass
NVNT	BLE	2402	BT ANT	2390	-48.55	2	48.71	Peak	74	Pass
NVNT	BLE	2402	BT ANT	2390	-57.4	2	39.86	Average	54	Pass
NVNT	BLE	2480	BT ANT	2483.5	-49.71	2	47.55	Peak	74	Pass
NVNT	BLE	2480	BT ANT	2483.5	-56.12	2	41.14	Average	54	Pass
NVNT	BLE	2480	BT ANT	2491	-47.24	2	50.02	Peak	74	Pass
NVNT	BLE	2480	BT ANT	2483.512	-56.12	2	41.14	Average	54	Pass
NVNT	BLE	2480	BT ANT	2500	-50.69	2	46.57	Peak	74	Pass
NVNT	BLE	2480	BT ANT	2500	-57.03	2	40.23	Average	54	Pass

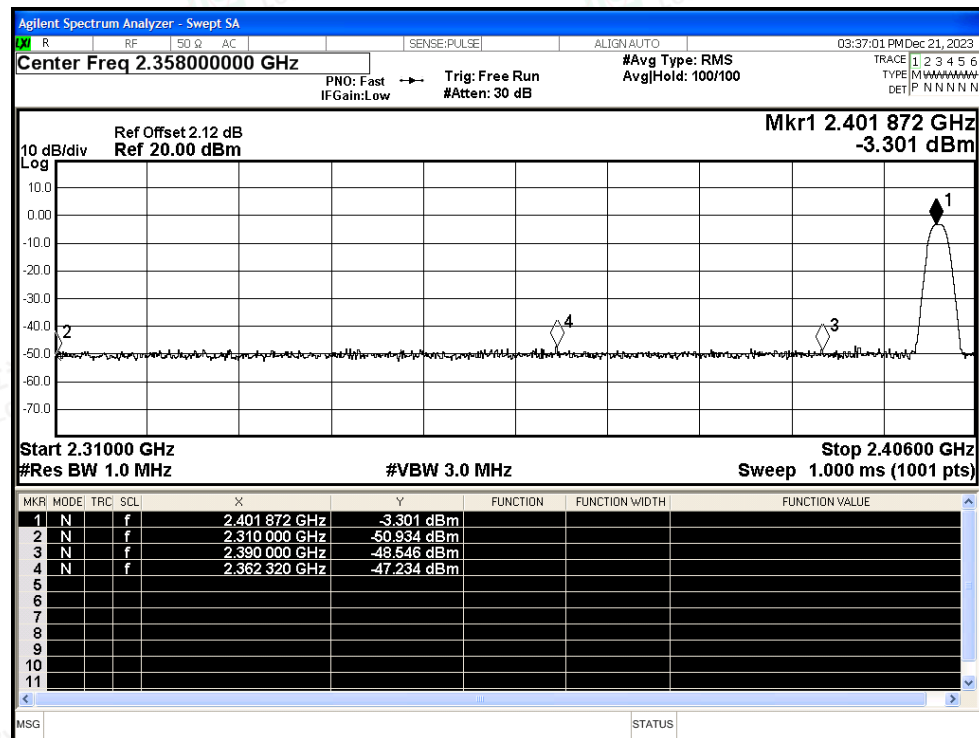


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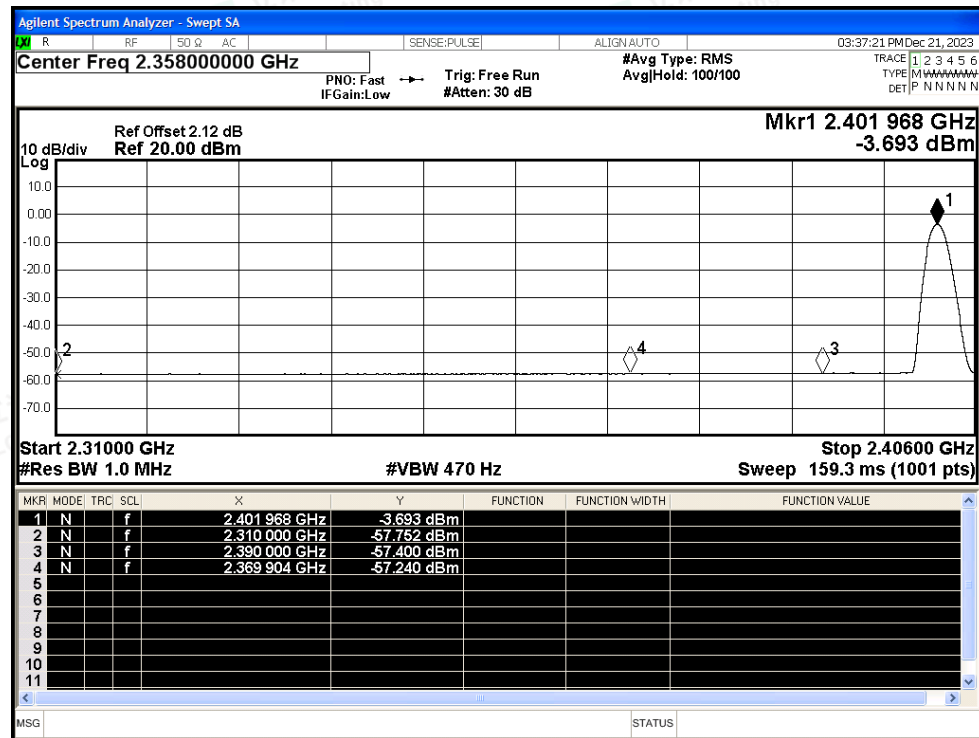


Test Graphs

Restrict Band NVNT BLE 2402MHz BT ANT Peak

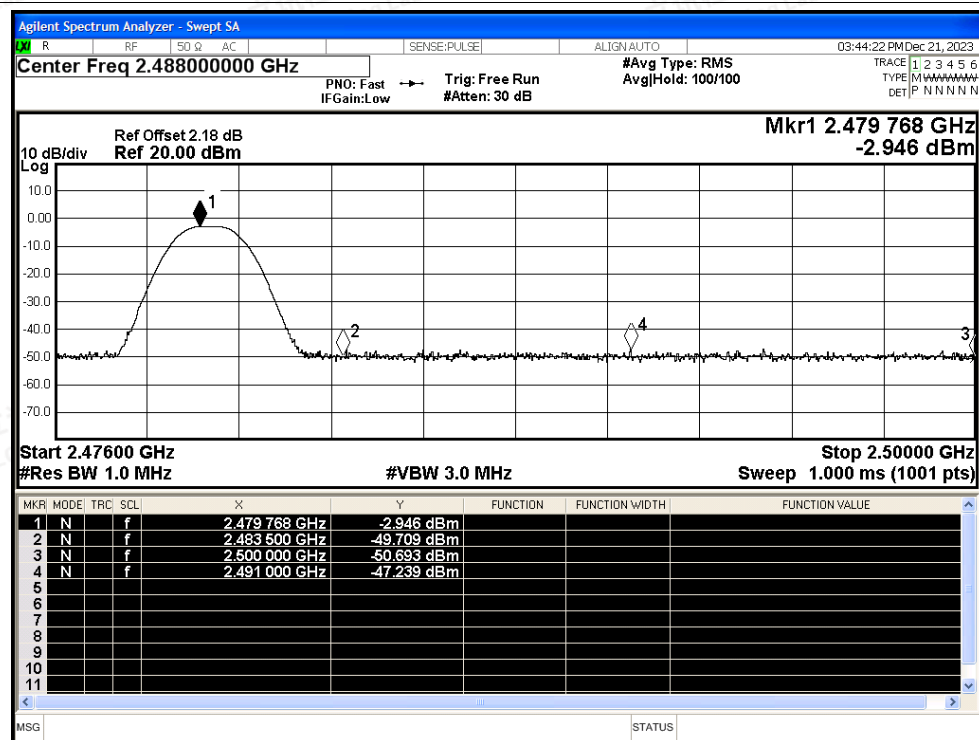


Restrict Band NVNT BLE 2402MHz BT ANT Average





Restrict Band NVNT BLE 2480MHz BT ANT Peak



Restrict Band NVNT BLE 2480MHz BT ANT Average

