



Appendix B

RF Test Data for BT LE(Conducted Measurement)

Product Name: Mobile phone

Test Model: F31tx

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
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	Ant	0.646	>=0.5	Pass
NVNT	BLE	2440	Ant	0.66	>=0.5	Pass
NVNT	BLE	2480	Ant	0.653	>=0.5	Pass

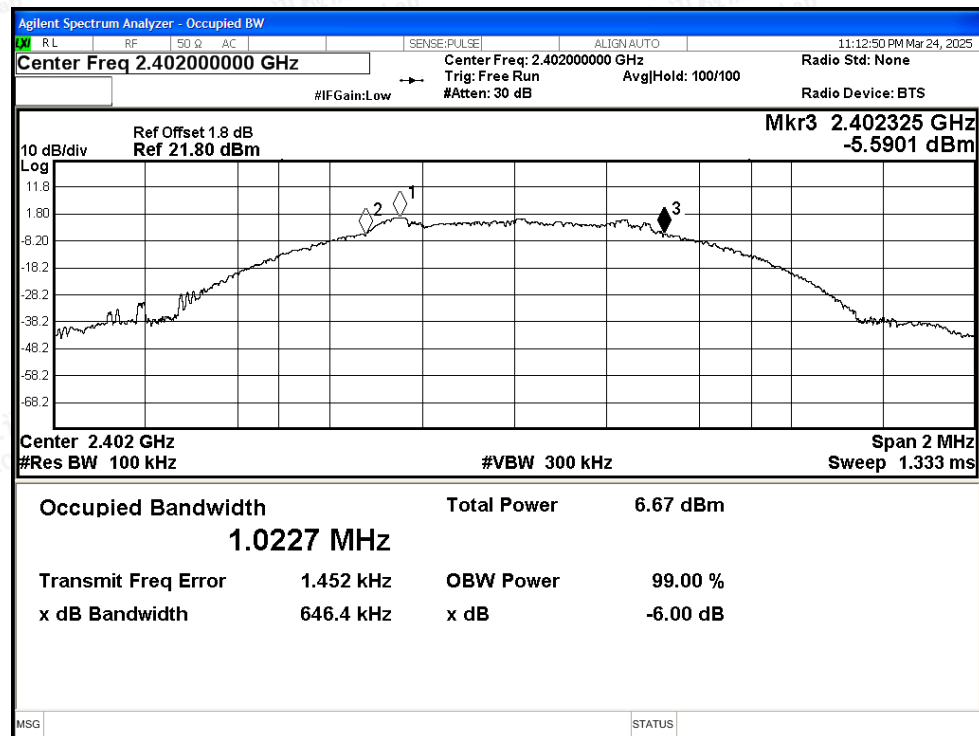


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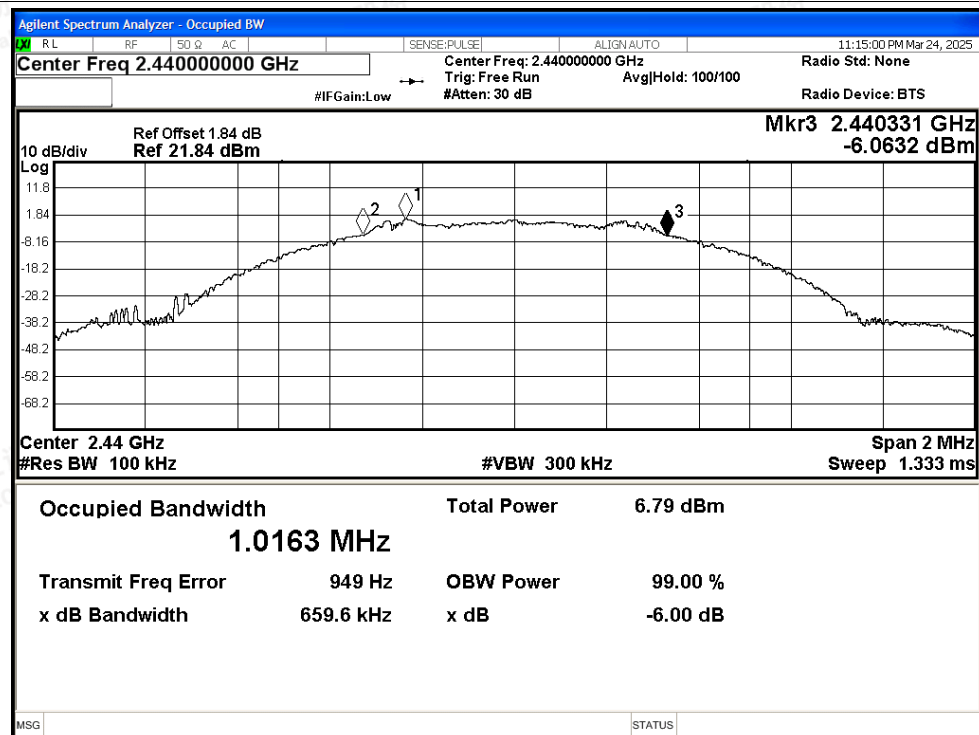


Test Graphs

-6dB Bandwidth NVNT BLE 2402MHz Ant



-6dB Bandwidth NVNT BLE 2440MHz Ant

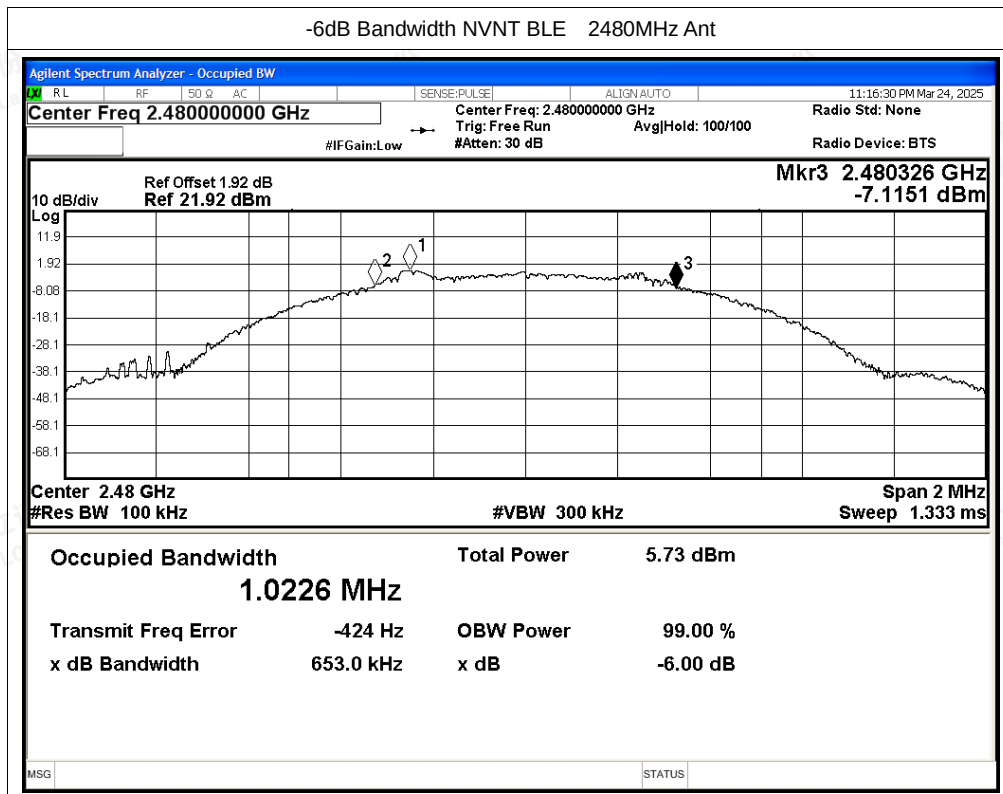


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B.2 Maximum Peak Conducted Output Power

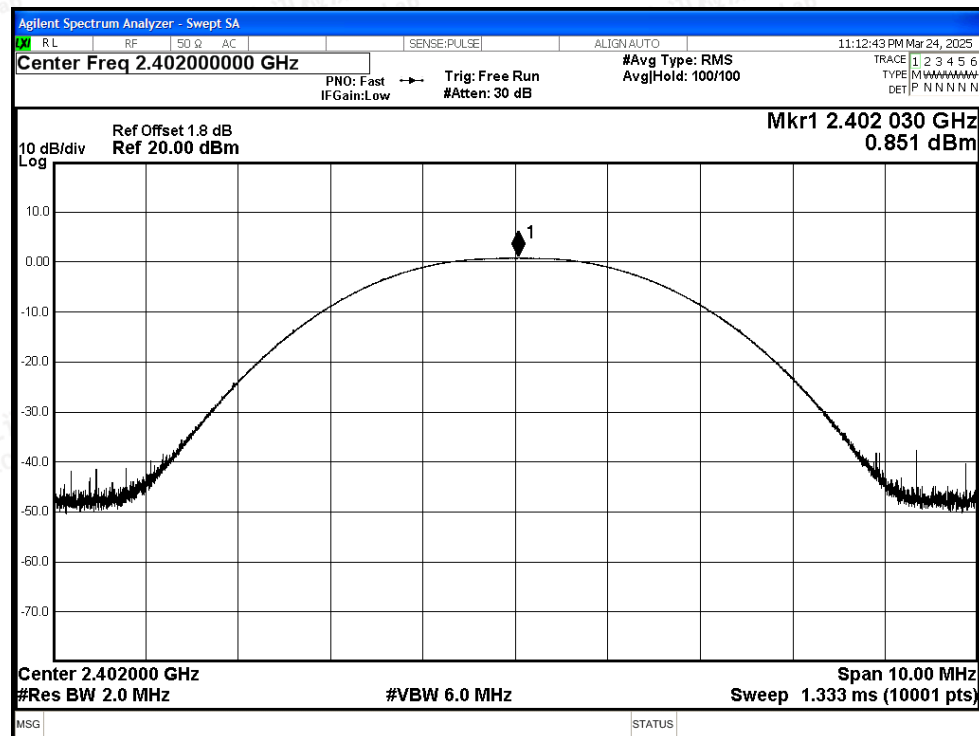
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant	0.85	30	Pass
NVNT	BLE	2440	Ant	0.94	30	Pass
NVNT	BLE	2480	Ant	-0.07	30	Pass



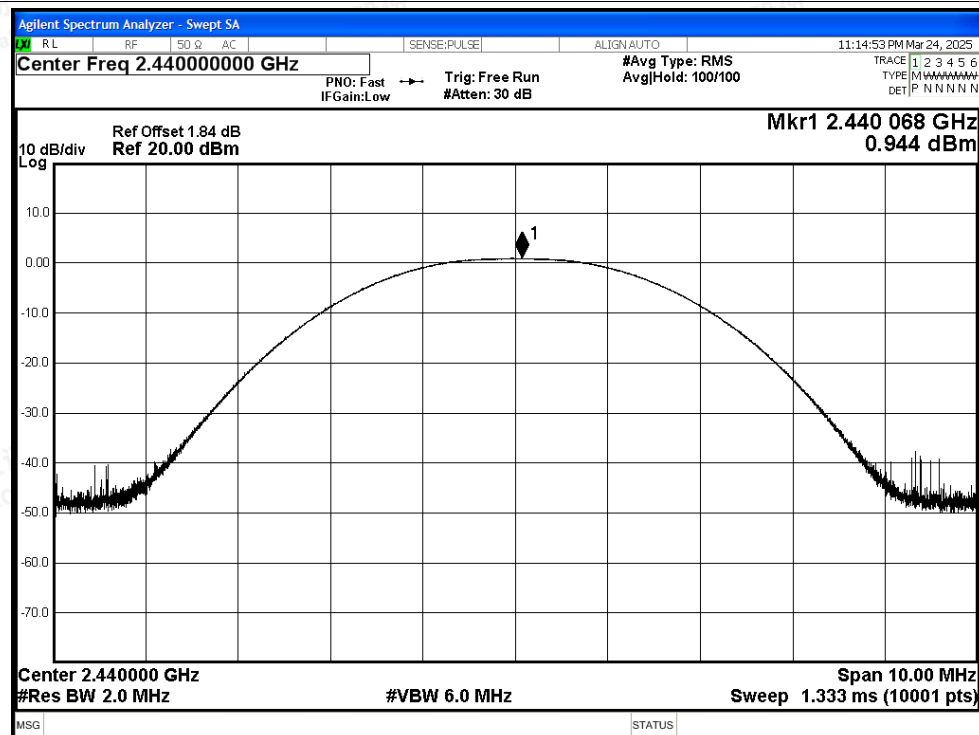


Test Graphs

Power NVNT BLE 2402MHz Ant



Power NVNT BLE 2440MHz Ant

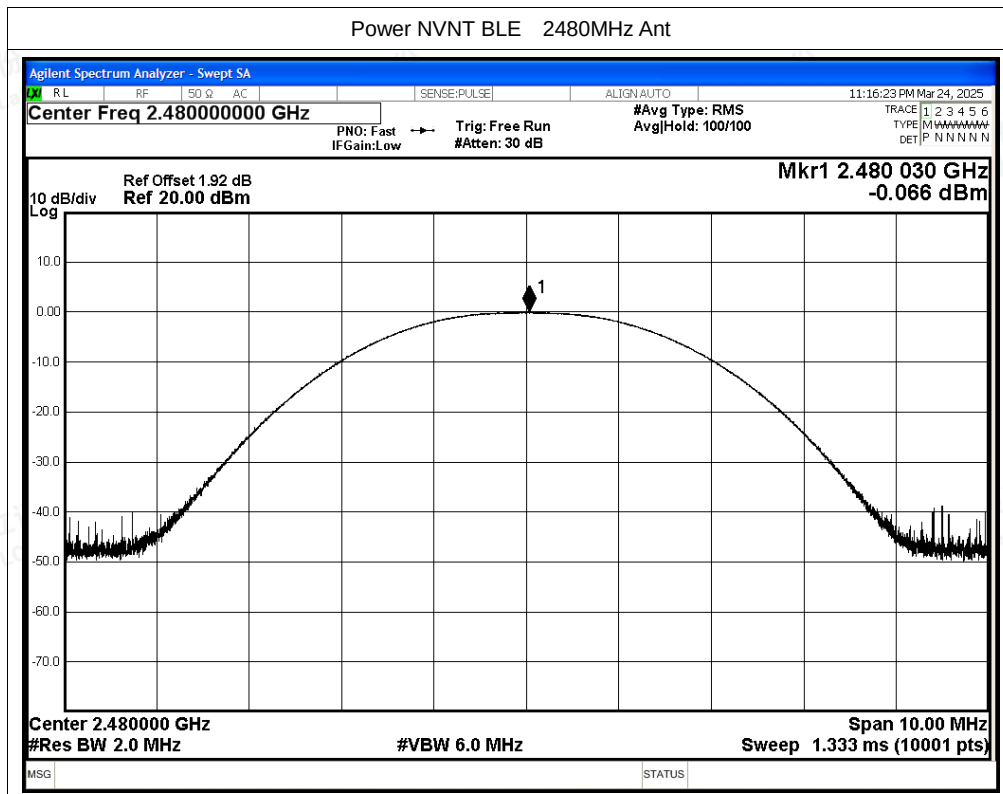


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B.3 Maximum Power Spectral Density Level

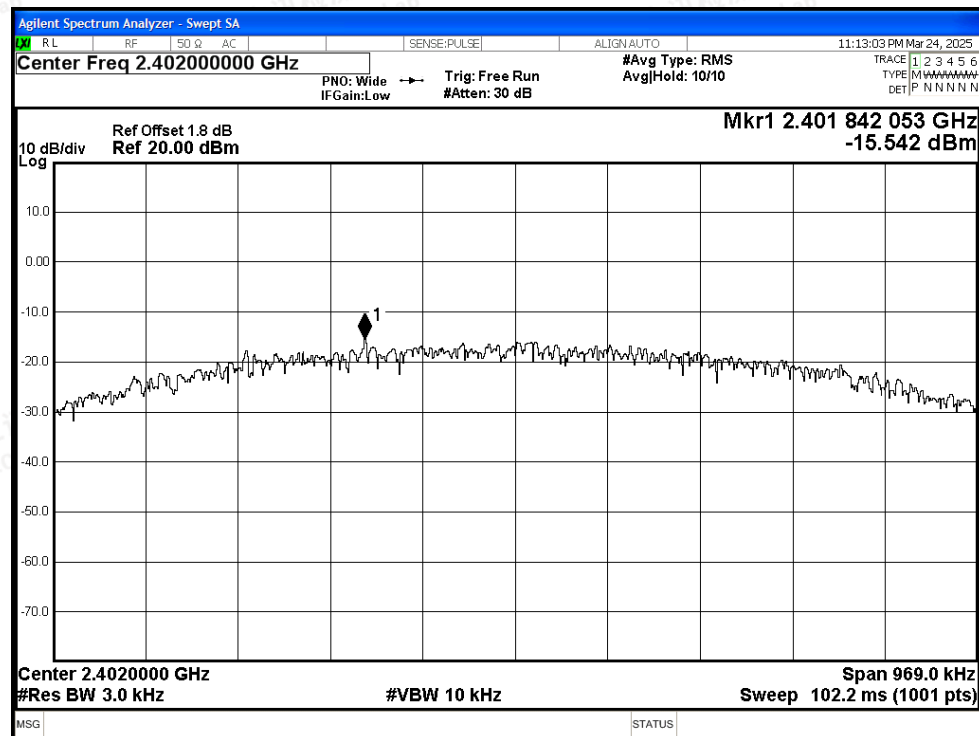
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE	2402	Ant	-15.54	8	Pass
NVNT	BLE	2440	Ant	-15.63	8	Pass
NVNT	BLE	2480	Ant	-16.72	8	Pass



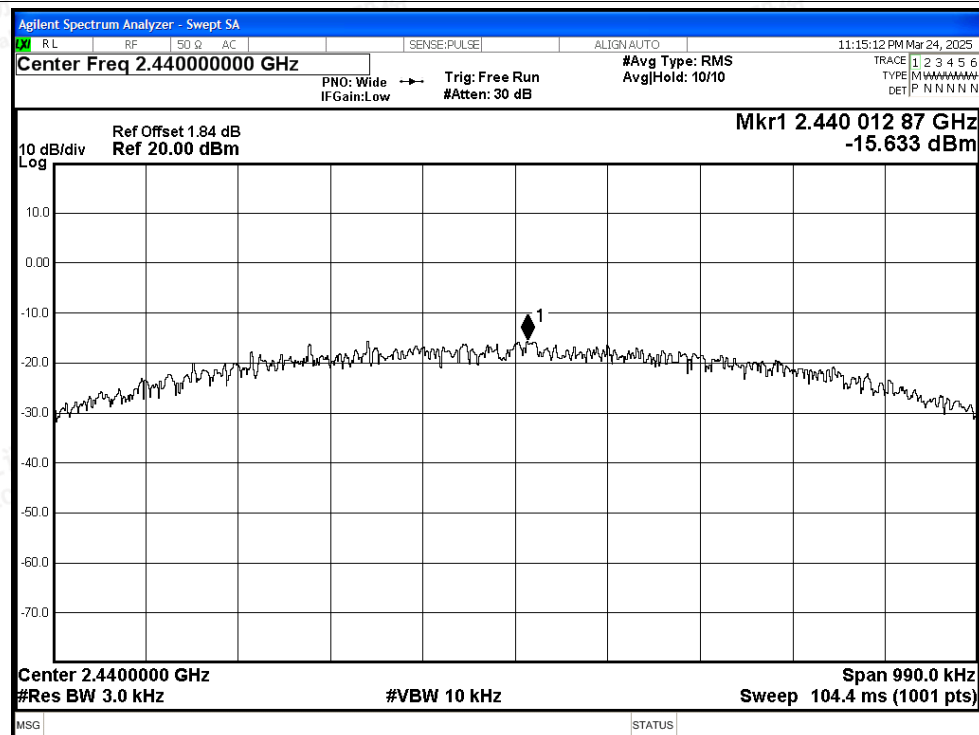


Test Graphs

PSD NVNT BLE 2402MHz Ant



PSD NVNT BLE 2440MHz Ant

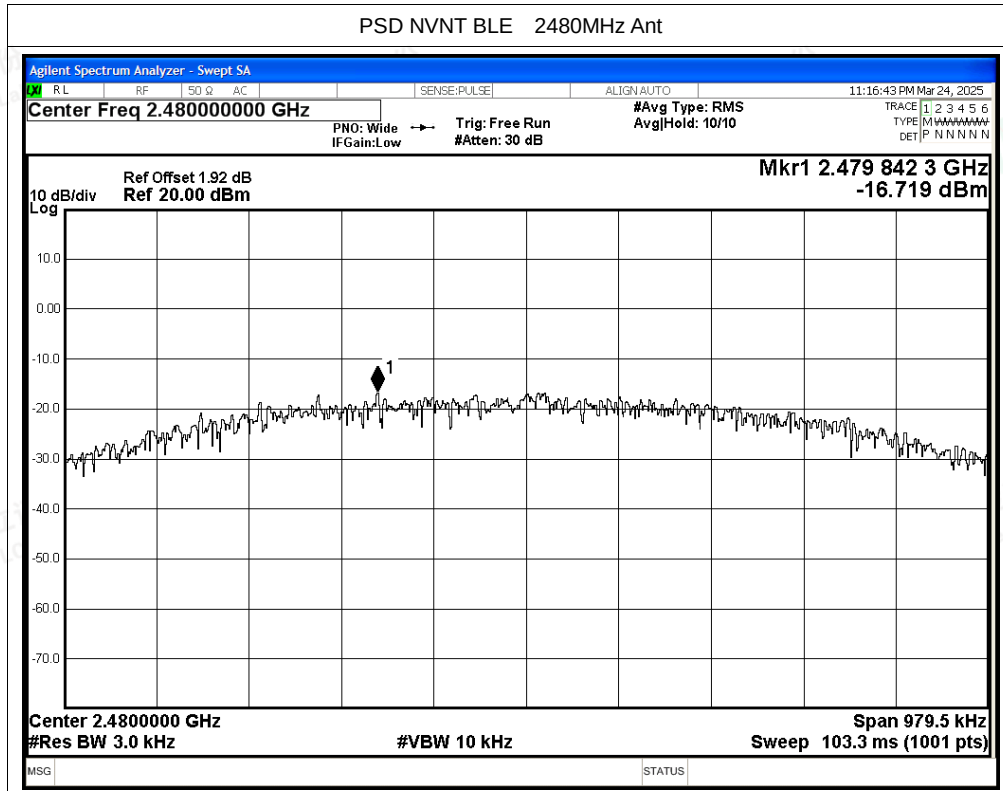


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B.4 Band Edge

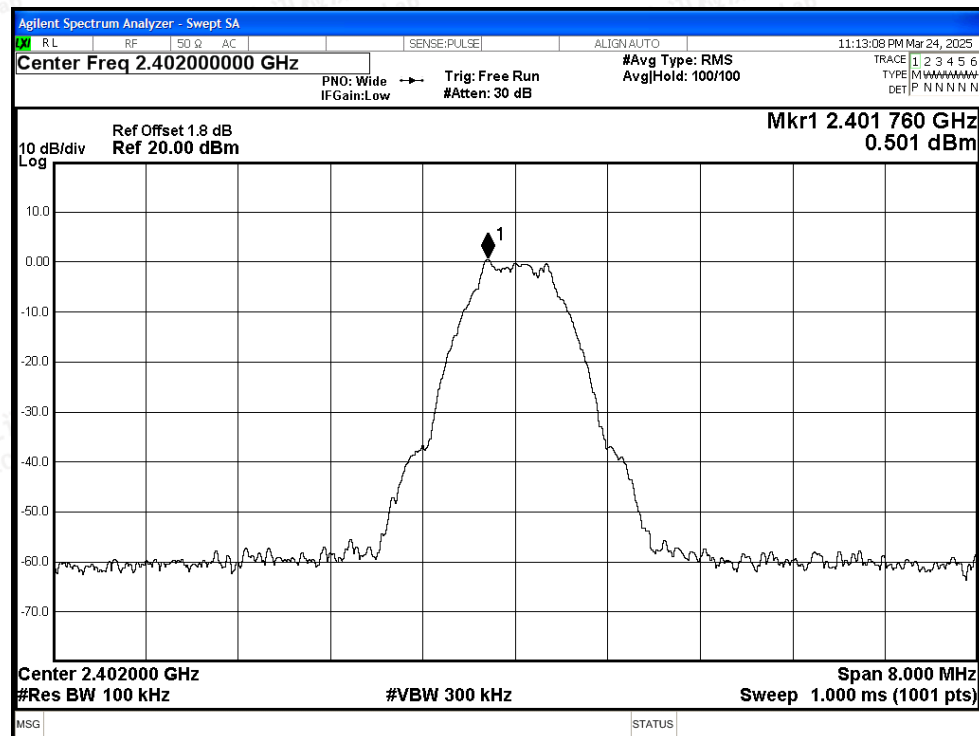
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant	-56.51	-20	Pass
NVNT	BLE	2480	Ant	-57.04	-20	Pass



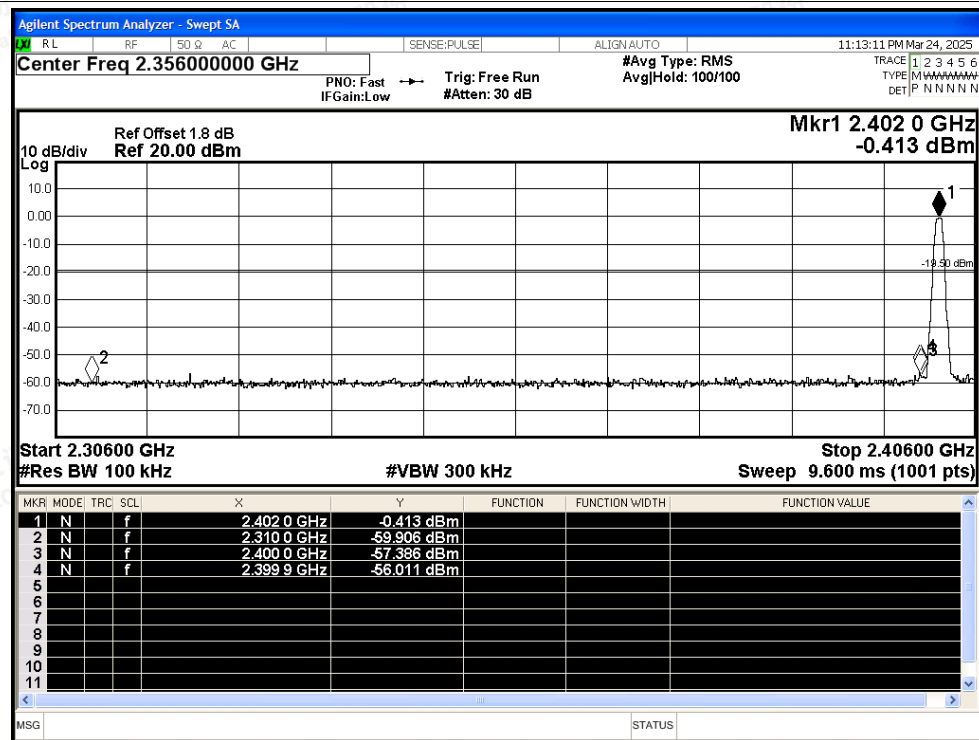


Test Graphs

Band Edge NVNT BLE 2402MHz Ant Ref



Band Edge NVNT BLE 2402MHz Ant Emission

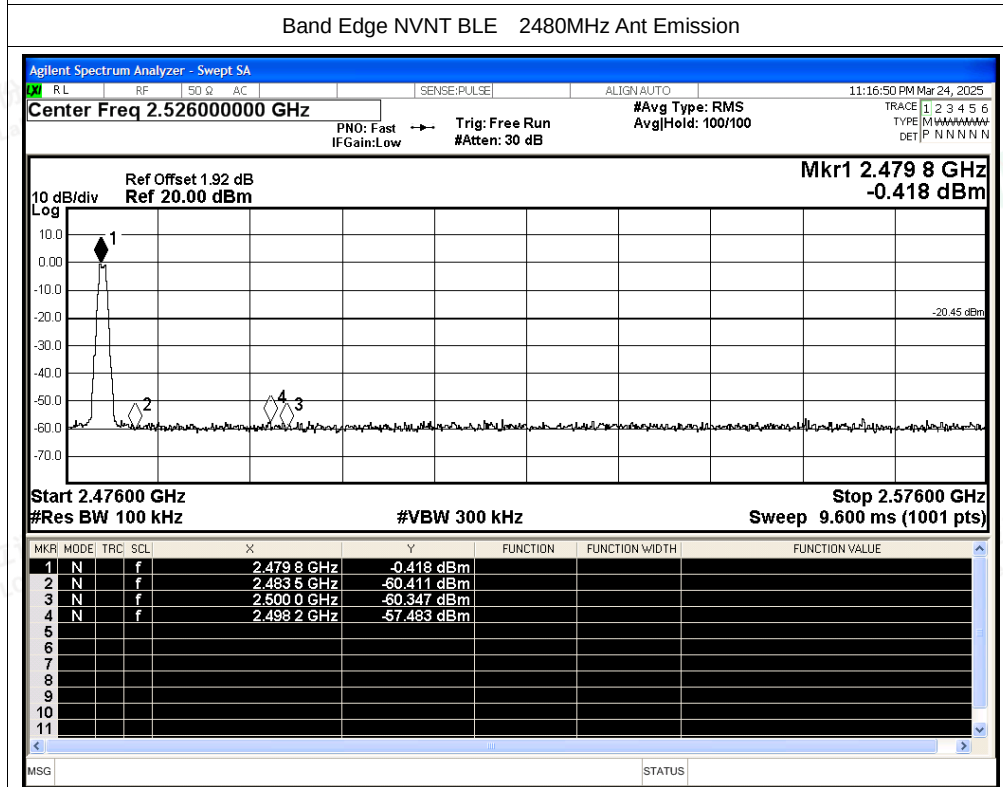
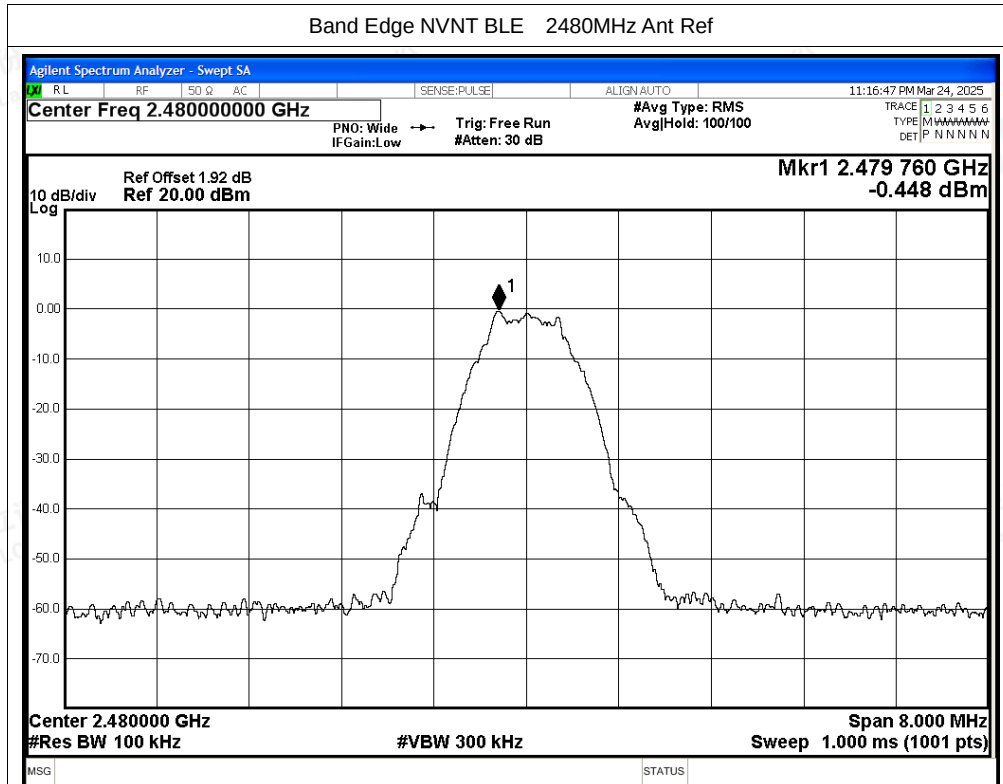


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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant	-55.86	-20	Pass
NVNT	BLE	2440	Ant	-55.54	-20	Pass
NVNT	BLE	2480	Ant	-55.32	-20	Pass

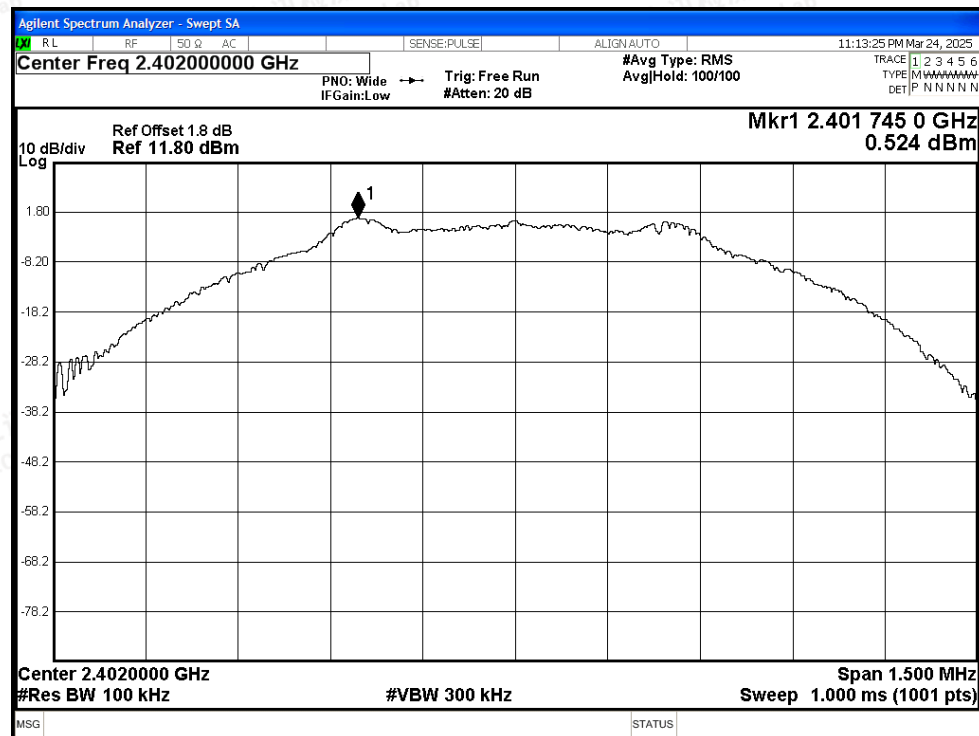


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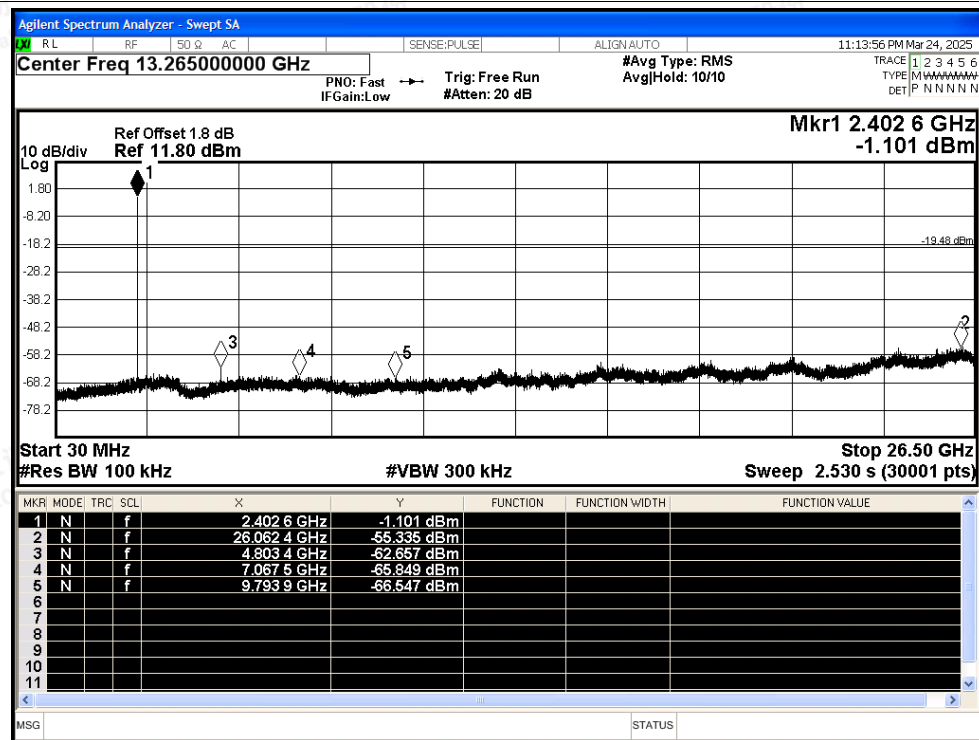


Test Graphs

Tx. Spurious NVNT BLE 2402MHz Ant Ref



Tx. Spurious NVNT BLE 2402MHz Ant Emission



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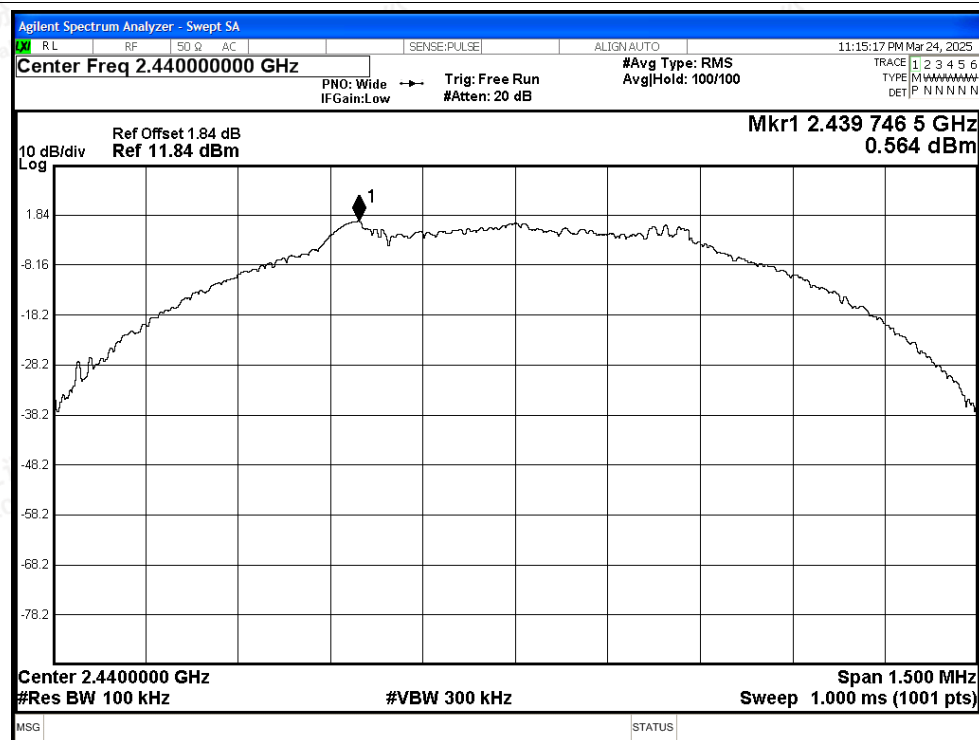
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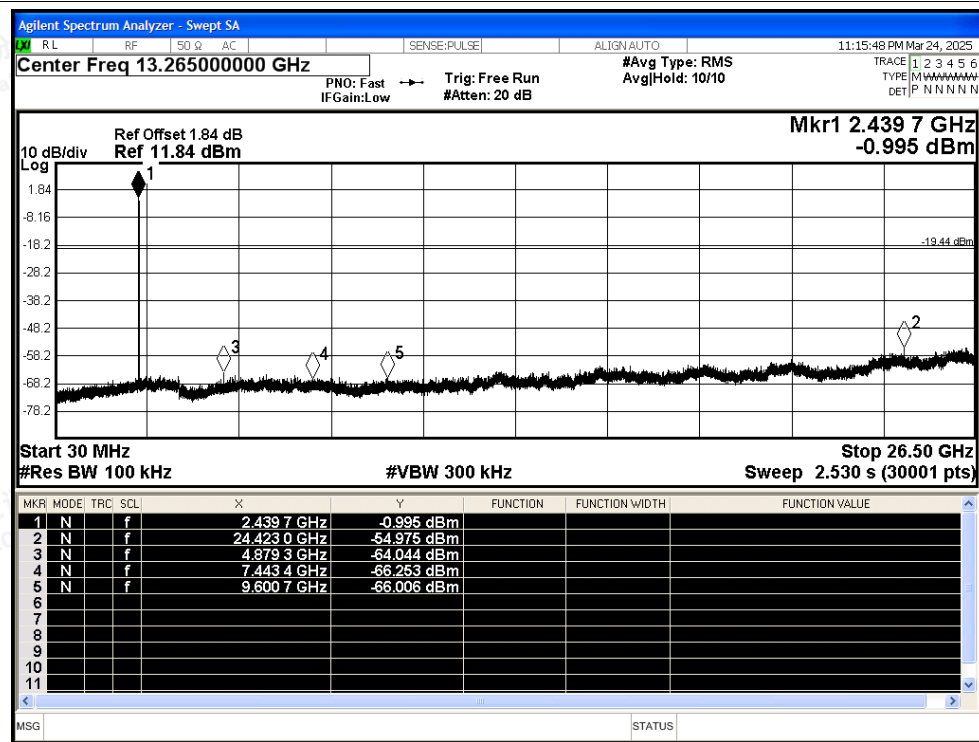
Scan code to check authenticity



Tx. Spurious NVNT BLE 2440MHz Ant Ref



Tx. Spurious NVNT BLE 2440MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

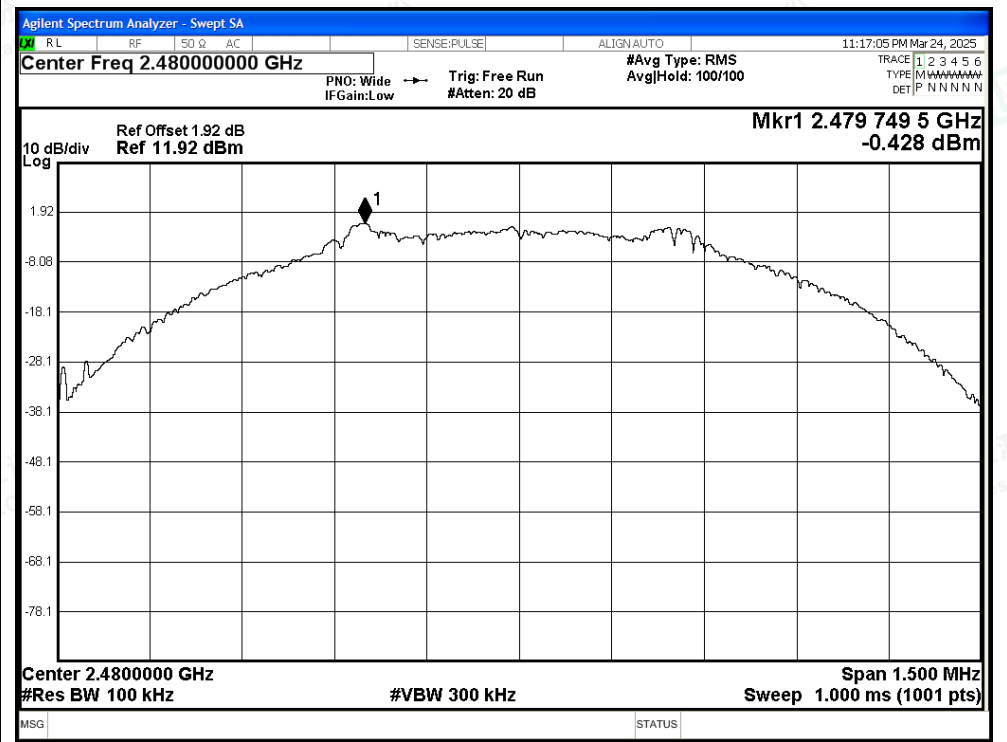
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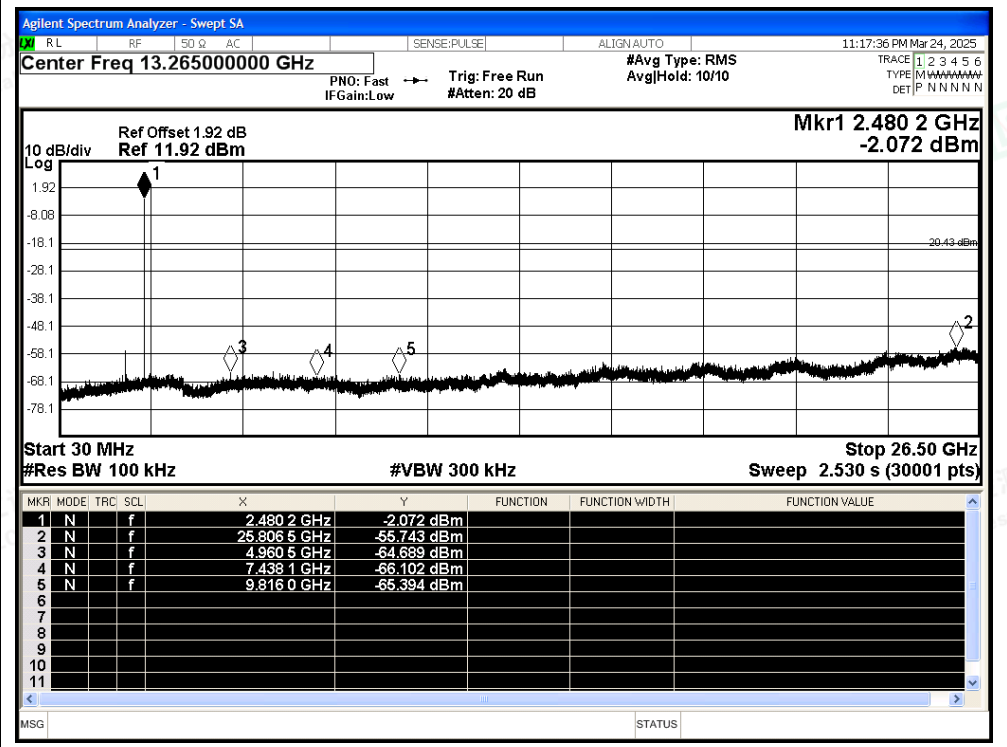
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Tx. Spurious NVNT BLE 2480MHz Ant Ref



Tx. Spurious NVNT BLE 2480MHz Ant Emission





B.6 Duty Cycle

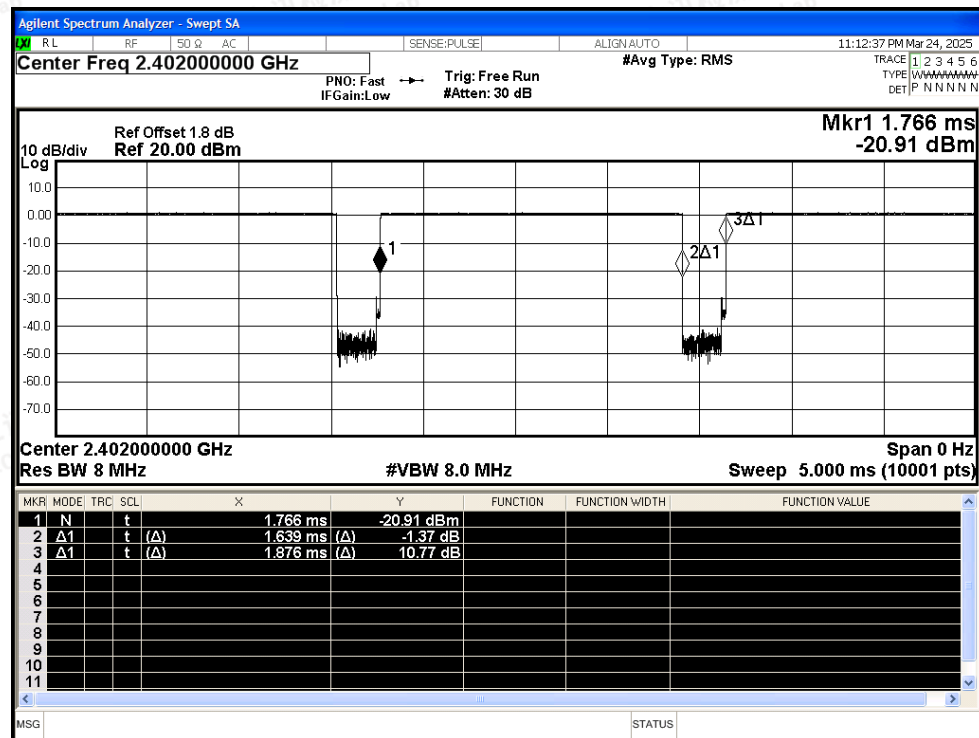
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE	2402	Ant	87.39	0.59	0.61
NVNT	BLE	2440	Ant	87.39	0.59	0.61
NVNT	BLE	2480	Ant	87.39	0.59	0.61



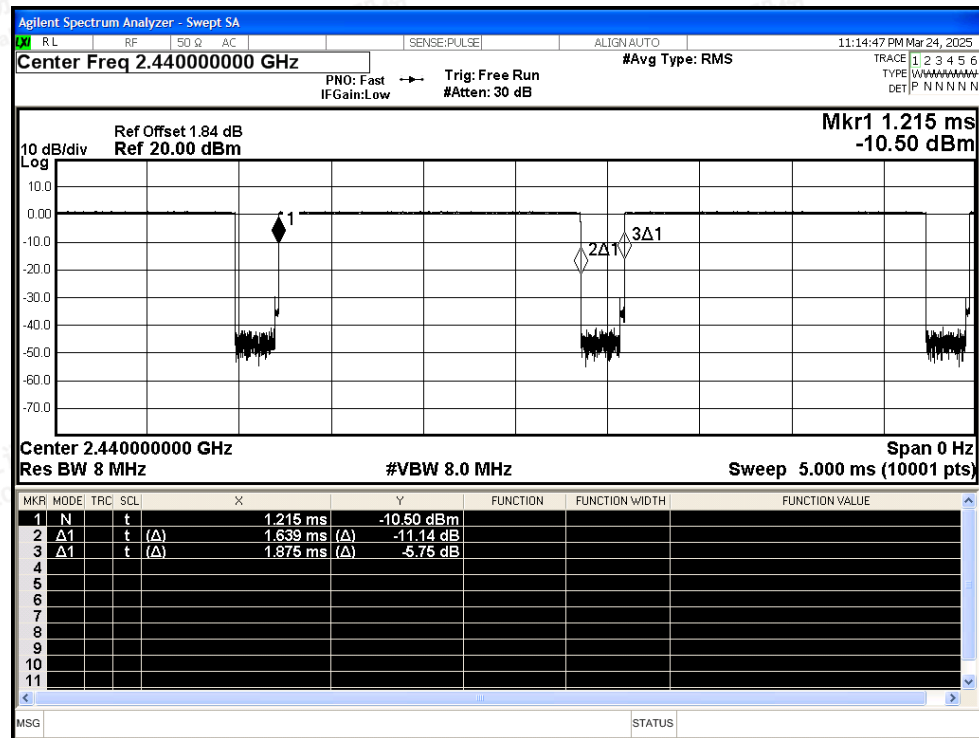


Test Graphs

Duty Cycle NVNT BLE 2402MHz Ant



Duty Cycle NVNT BLE 2440MHz Ant

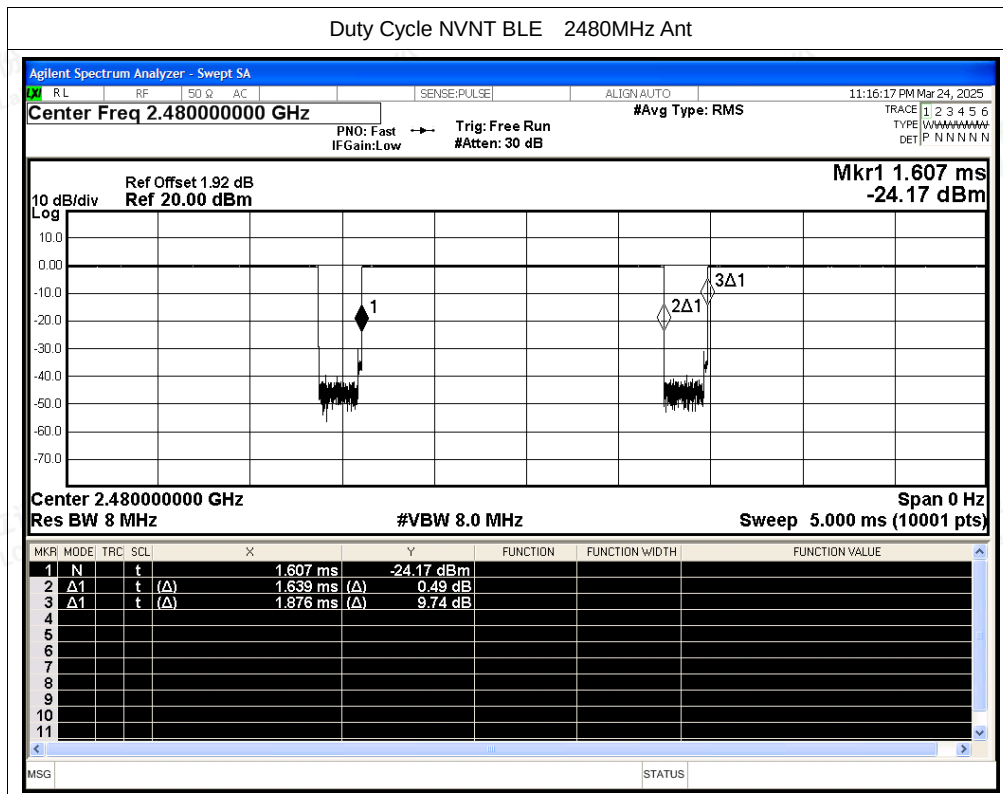


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B.7 Restrict Band

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	2402	Ant	2310	-50.72	3.88	-	48.42	Peak	74	Pass
NVNT	BLE	2402	Ant	2310	-58.93	3.88	0.59	40.80	Average	54	Pass
NVNT	BLE	2402	Ant	2374.896	-47.16	3.88	-	51.98	Peak	74	Pass
NVNT	BLE	2402	Ant	2379.12	-58.23	3.88	0.59	41.50	Average	54	Pass
NVNT	BLE	2402	Ant	2390	-50.5	3.88	-	48.64	Peak	74	Pass
NVNT	BLE	2402	Ant	2390	-58.46	3.88	0.59	41.27	Average	54	Pass
NVNT	BLE	2480	Ant	2483.5	-50.51	3.88	-	48.63	Peak	74	Pass
NVNT	BLE	2480	Ant	2483.5	-57.81	3.88	0.59	41.92	Average	54	Pass
NVNT	BLE	2480	Ant	2485.696	-44.82	3.88	-	54.32	Peak	74	Pass
NVNT	BLE	2480	Ant	2484.088	-57.56	3.88	0.59	42.17	Average	54	Pass
NVNT	BLE	2480	Ant	2500	-49.38	3.88	-	49.76	Peak	74	Pass
NVNT	BLE	2480	Ant	2500	-58.02	3.88	0.59	41.71	Average	54	Pass



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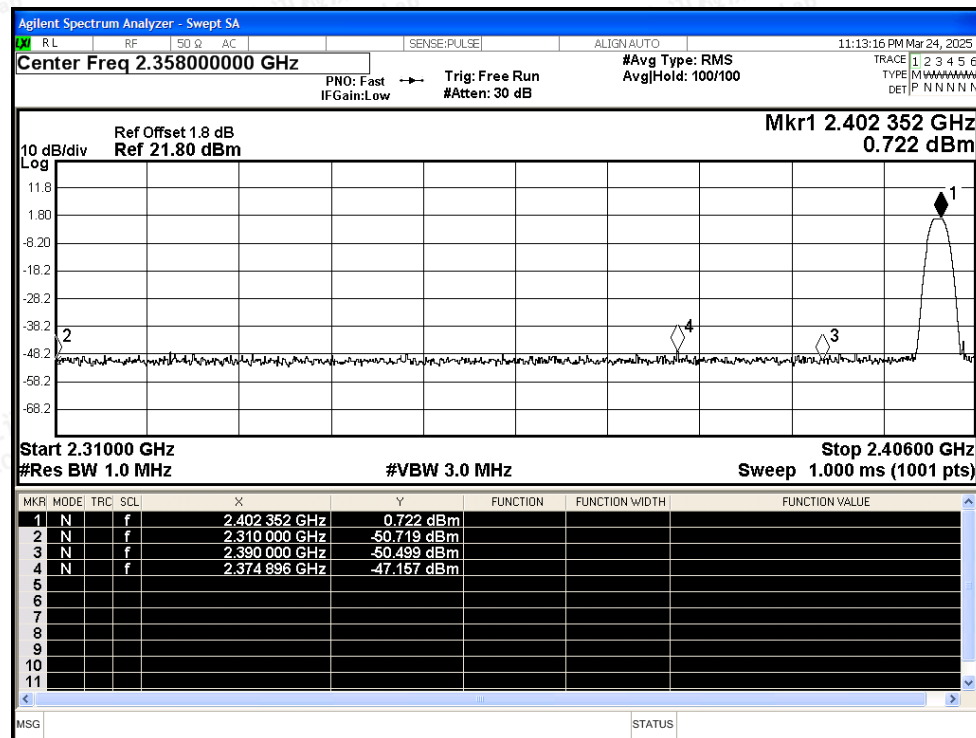
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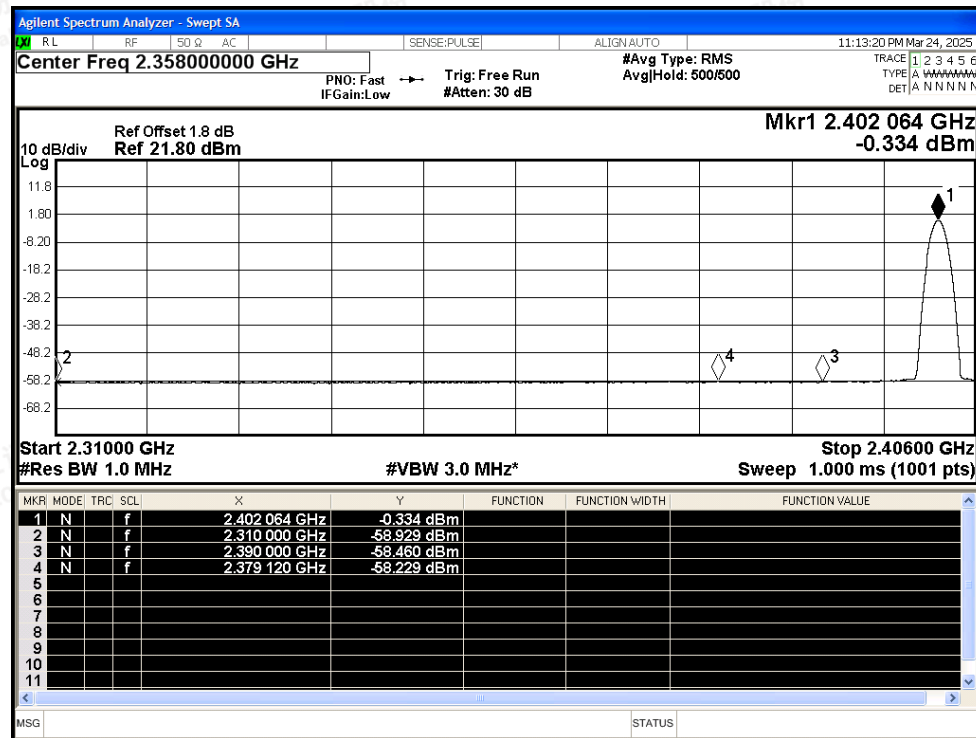


Test Graphs

Restrict Band NVNT BLE 2402MHz Ant Peak



Restrict Band NVNT BLE 2402MHz Ant Average



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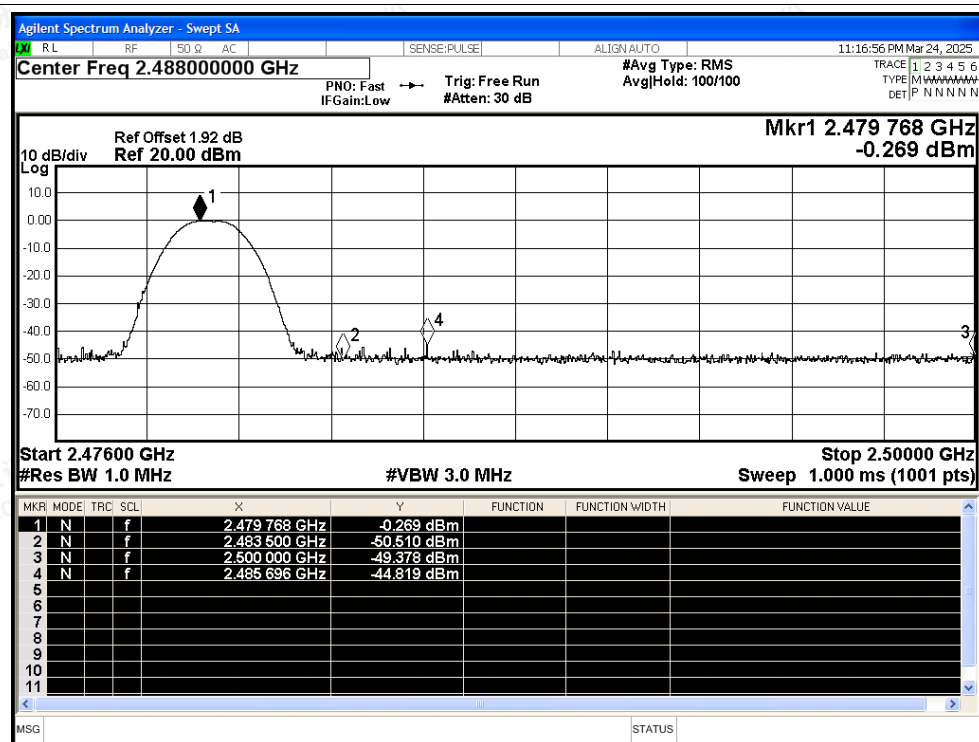
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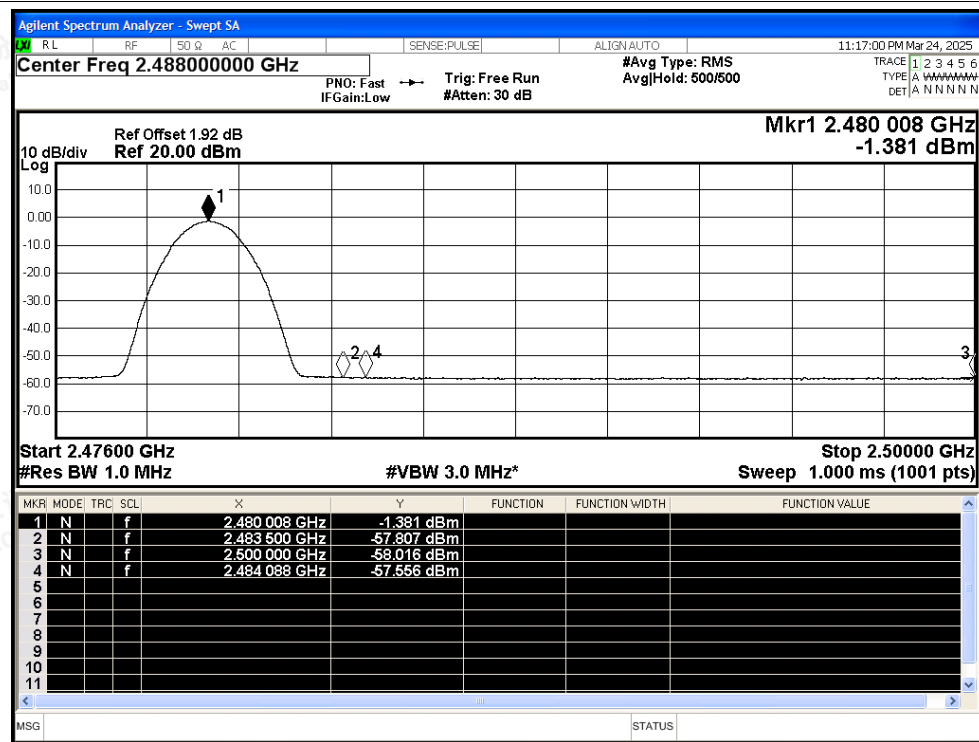
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Restrict Band NVNT BLE 2480MHz Ant Peak



Restrict Band NVNT BLE 2480MHz Ant Average



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