



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Remote Control

Test Model: TIK006

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	0.65	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.66	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.651	≥ 0.5	Pass

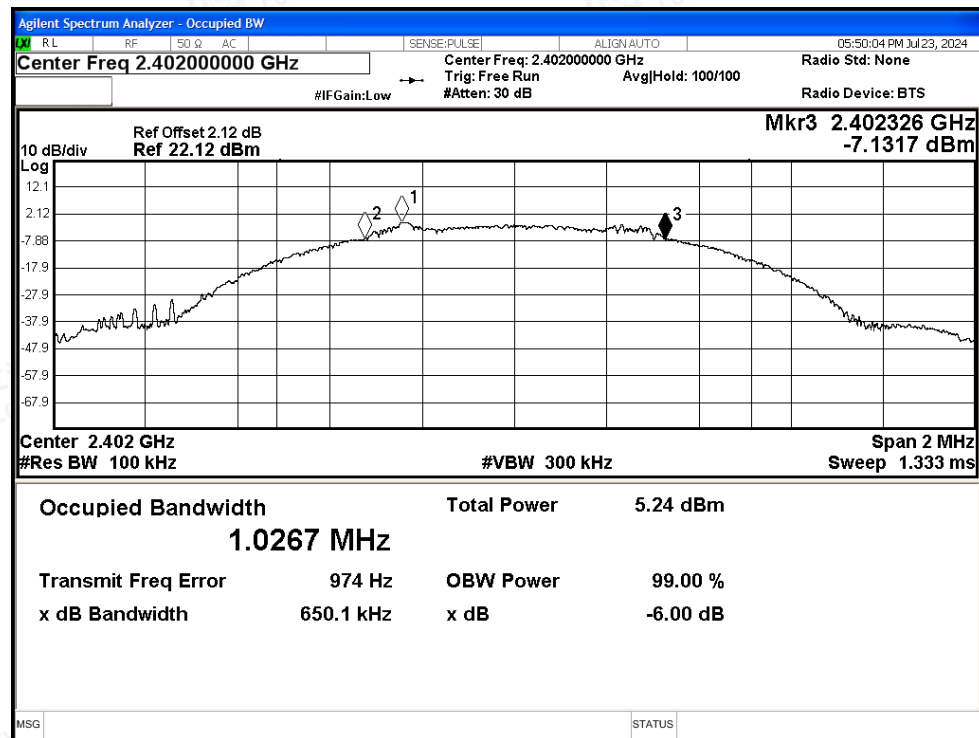


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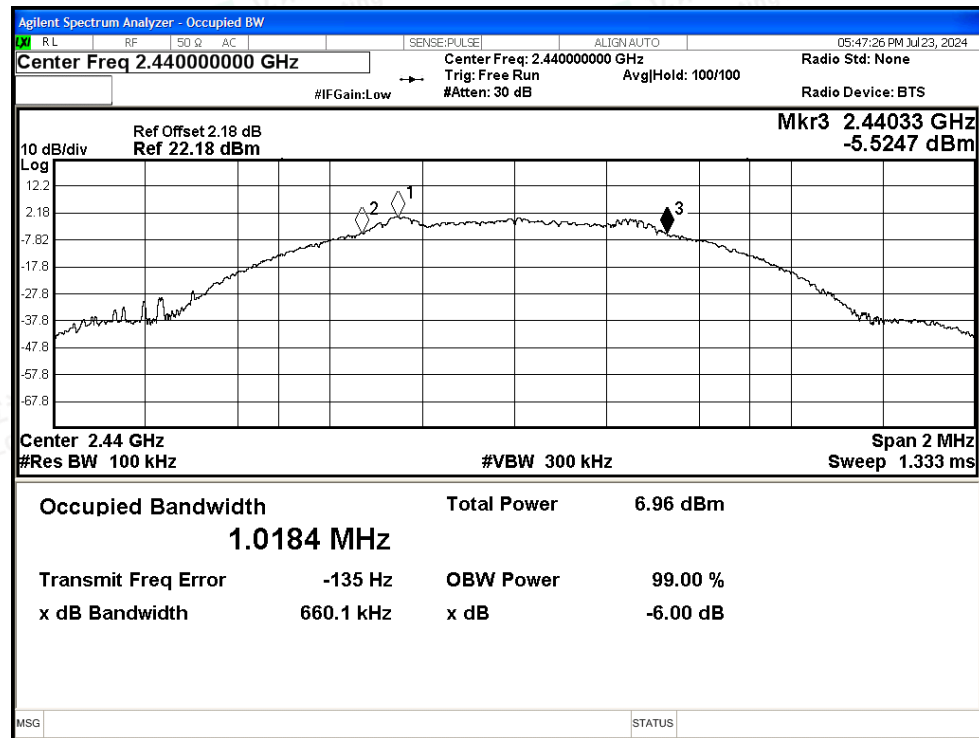


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

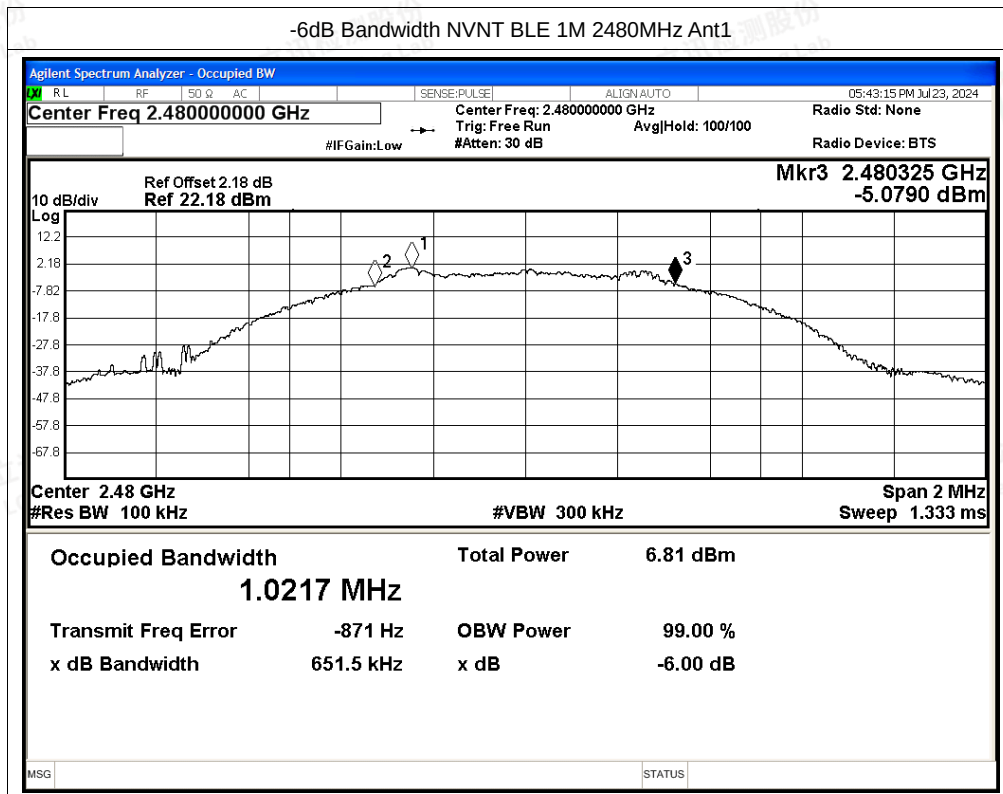


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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.61	30	Pass
NVNT	BLE 1M	2440	Ant1	1.04	30	Pass
NVNT	BLE 1M	2480	Ant1	0.82	30	Pass



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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-17.02	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.69	8	Pass
NVNT	BLE 1M	2480	Ant1	-15.72	8	Pass

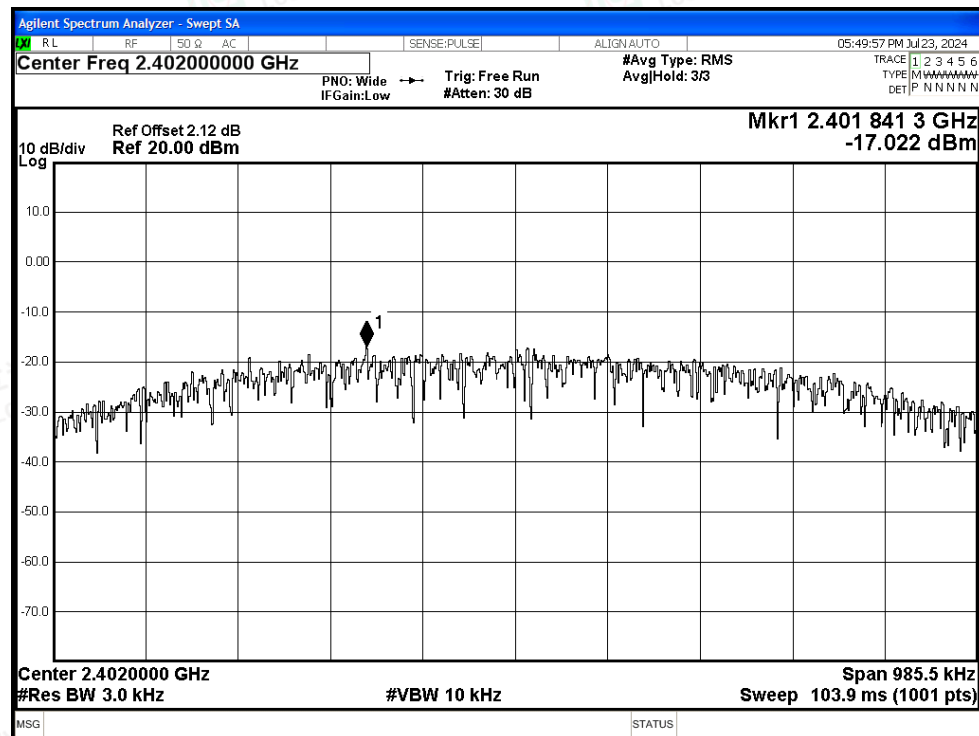


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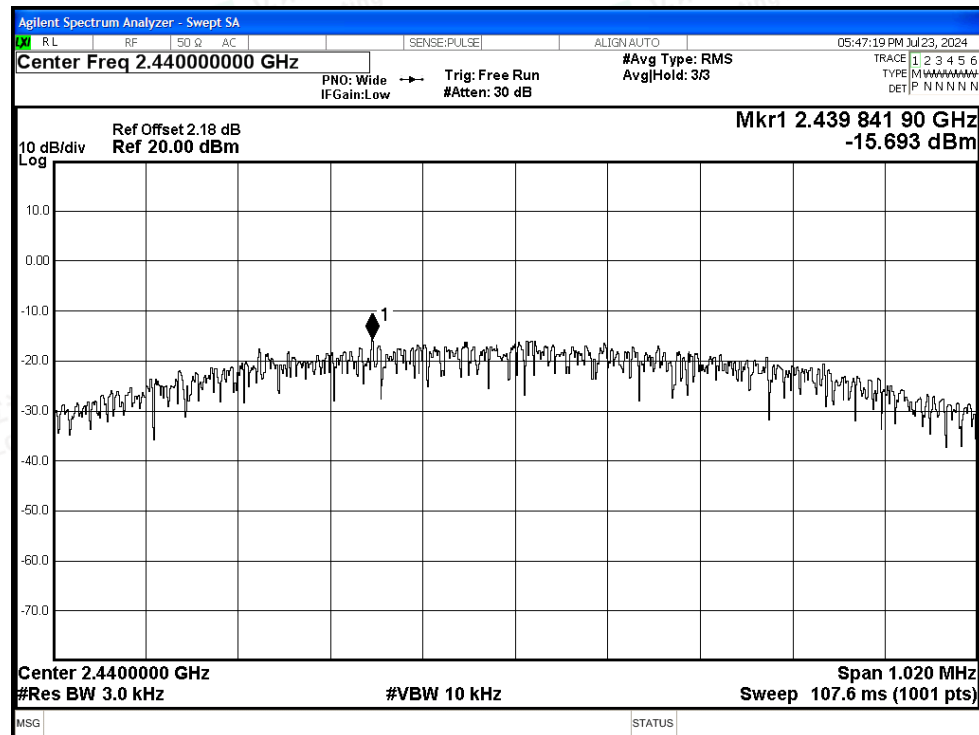


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

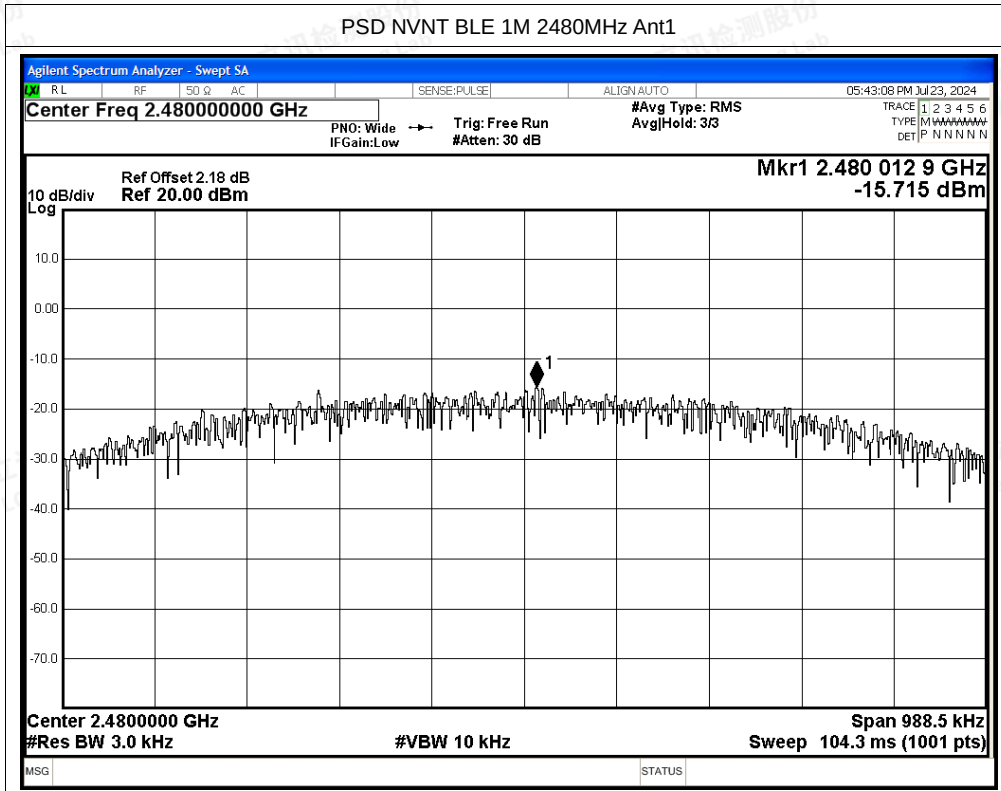


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.65	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.95	-20	Pass

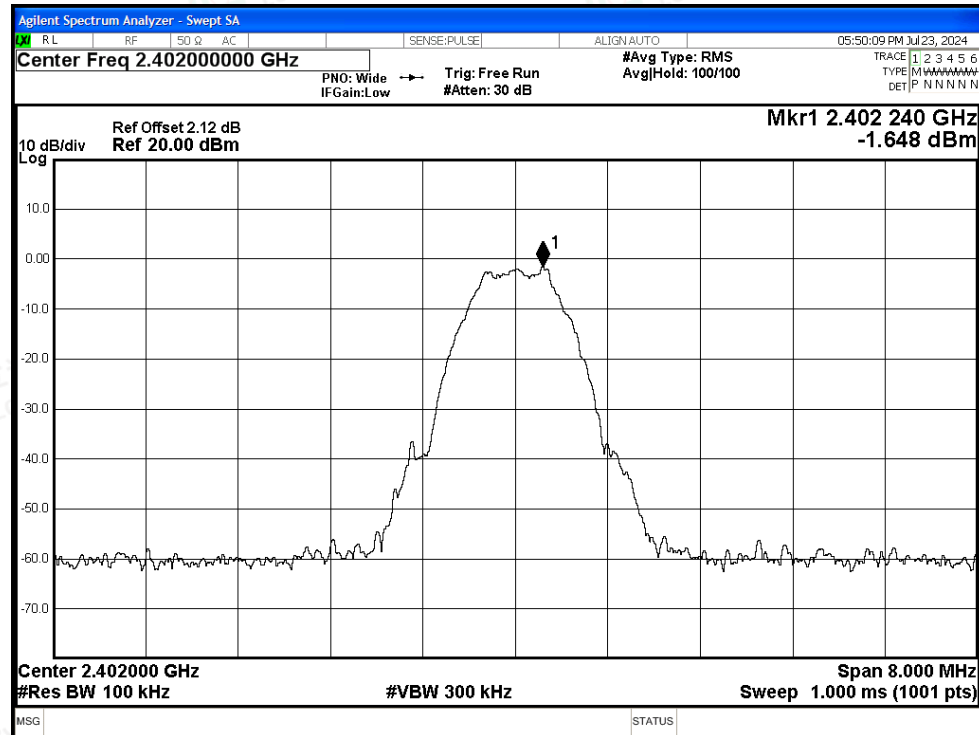


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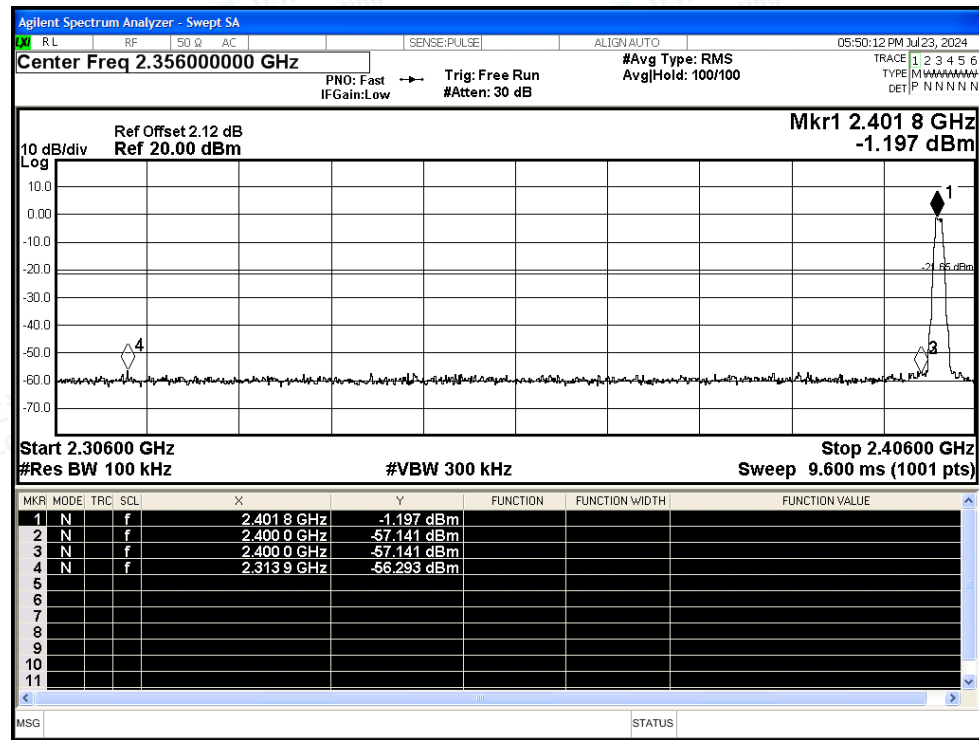


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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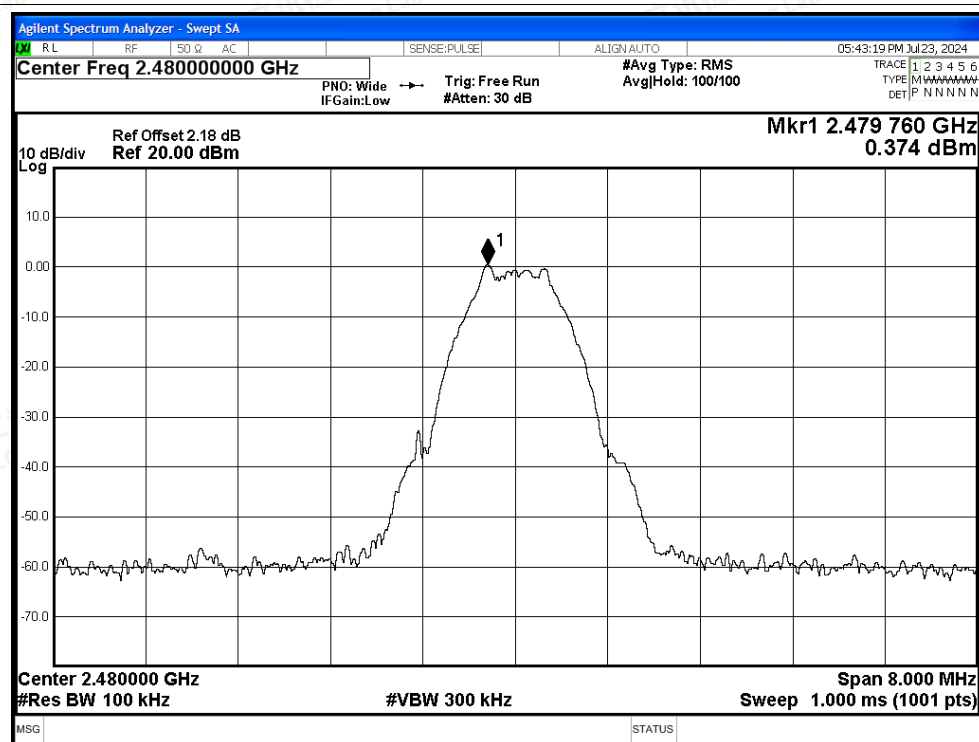
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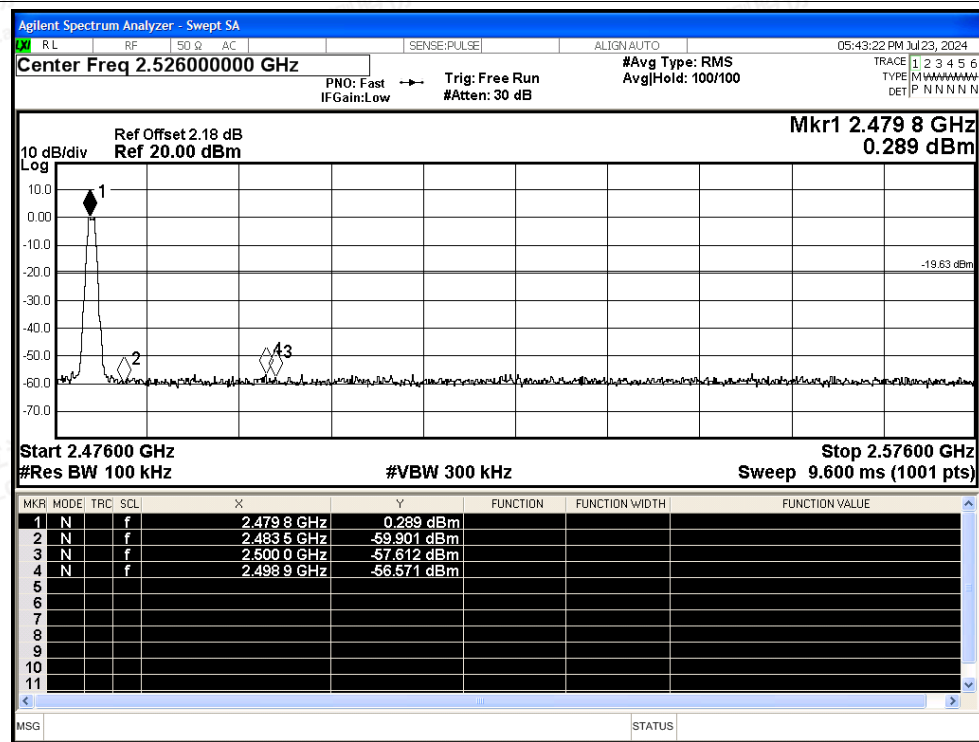
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



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	-51.85	-20	Pass
NVNT	BLE 1M	2440	Ant1	-55.26	-20	Pass
NVNT	BLE 1M	2480	Ant1	-55.92	-20	Pass

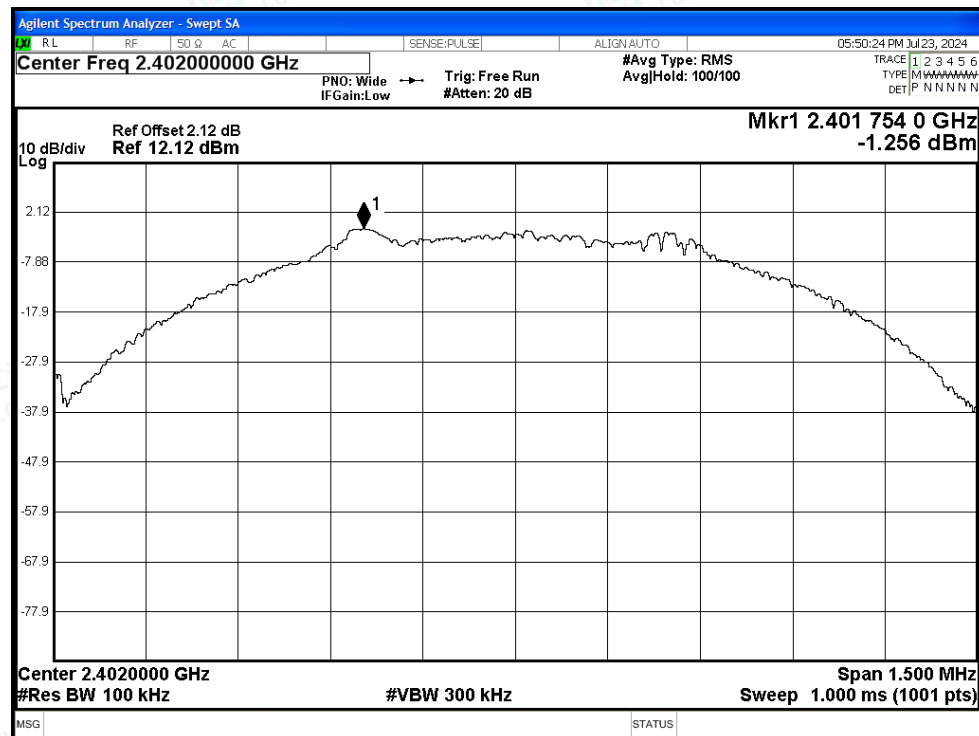


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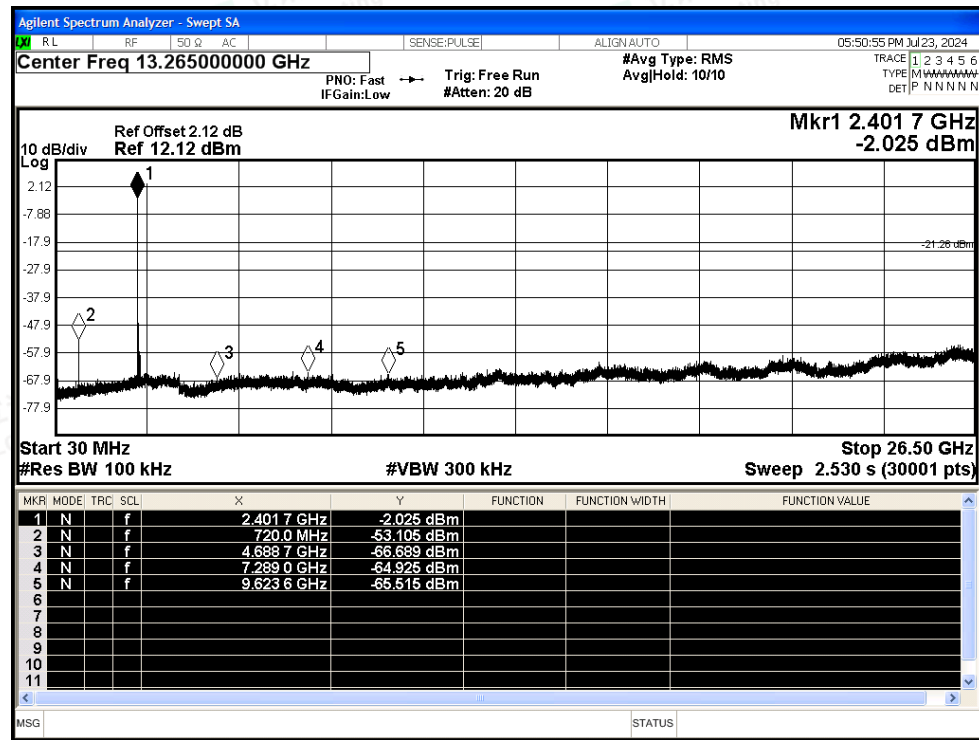


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

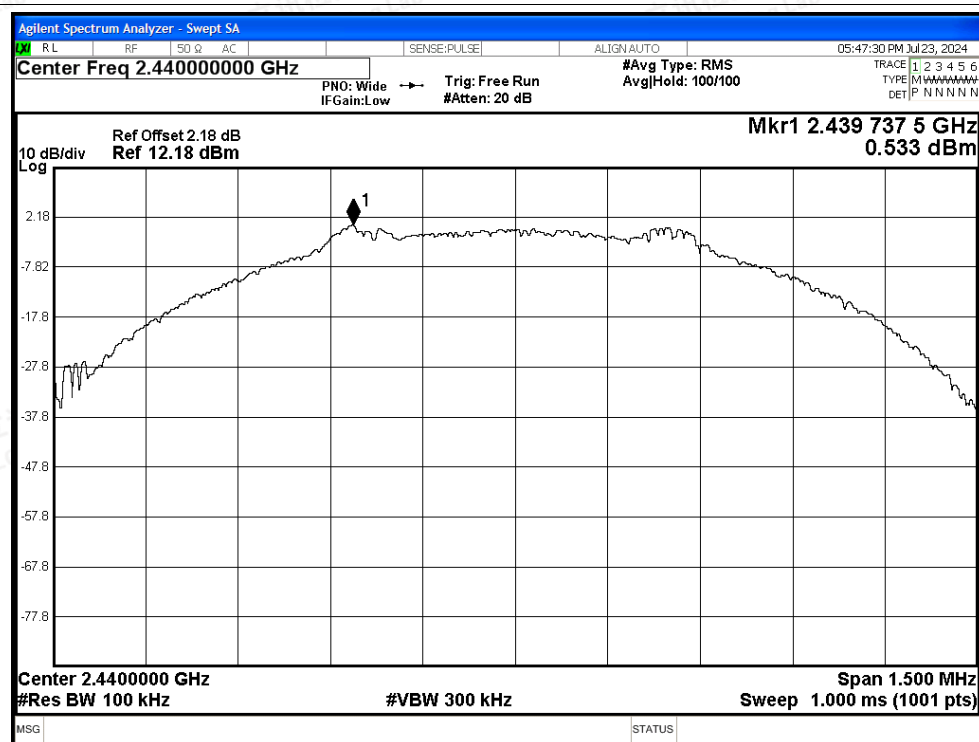
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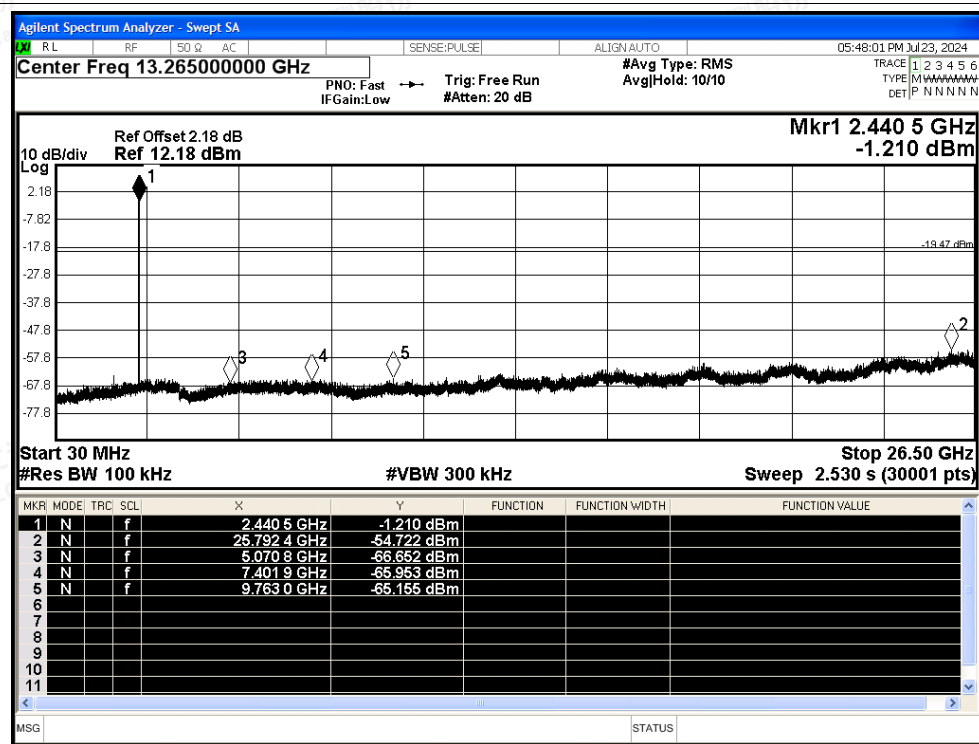
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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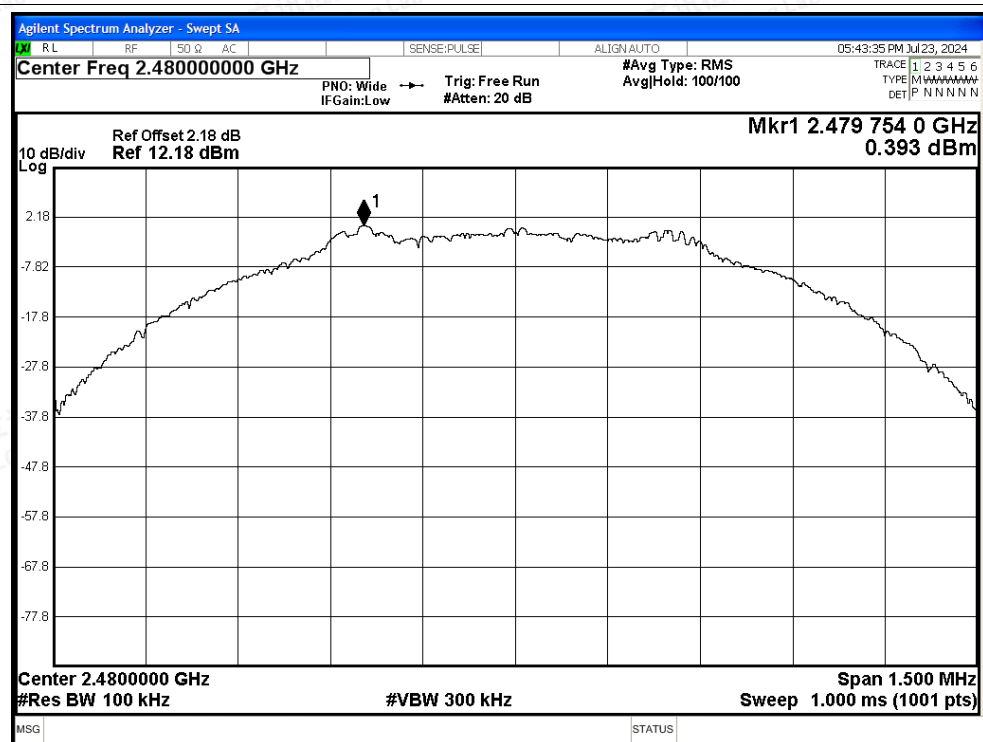
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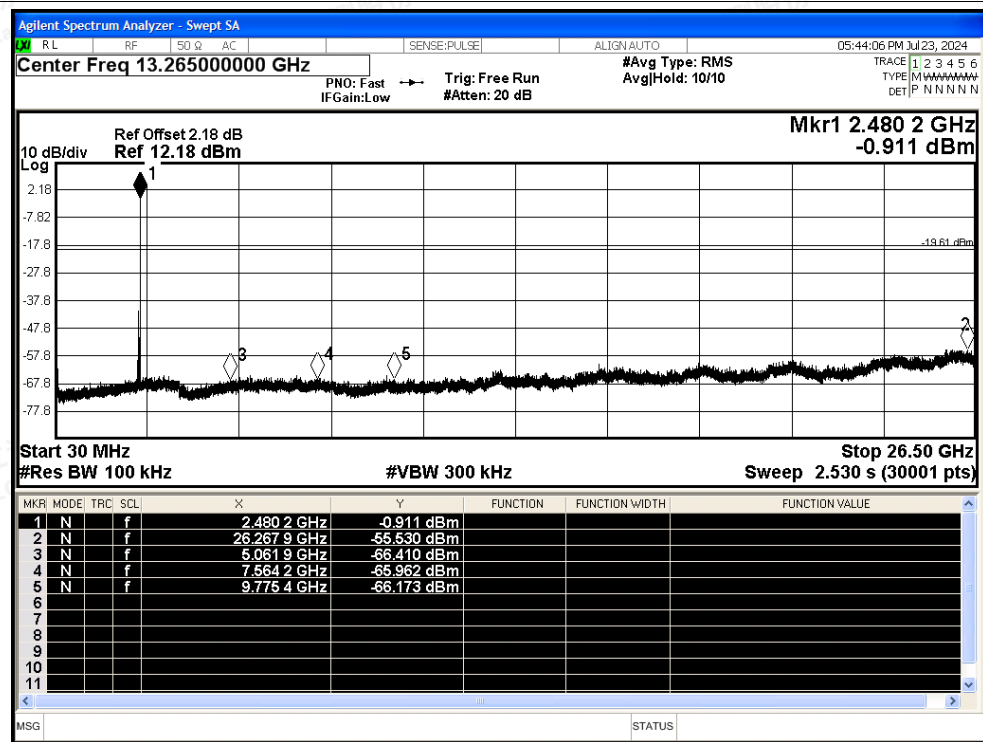
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



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

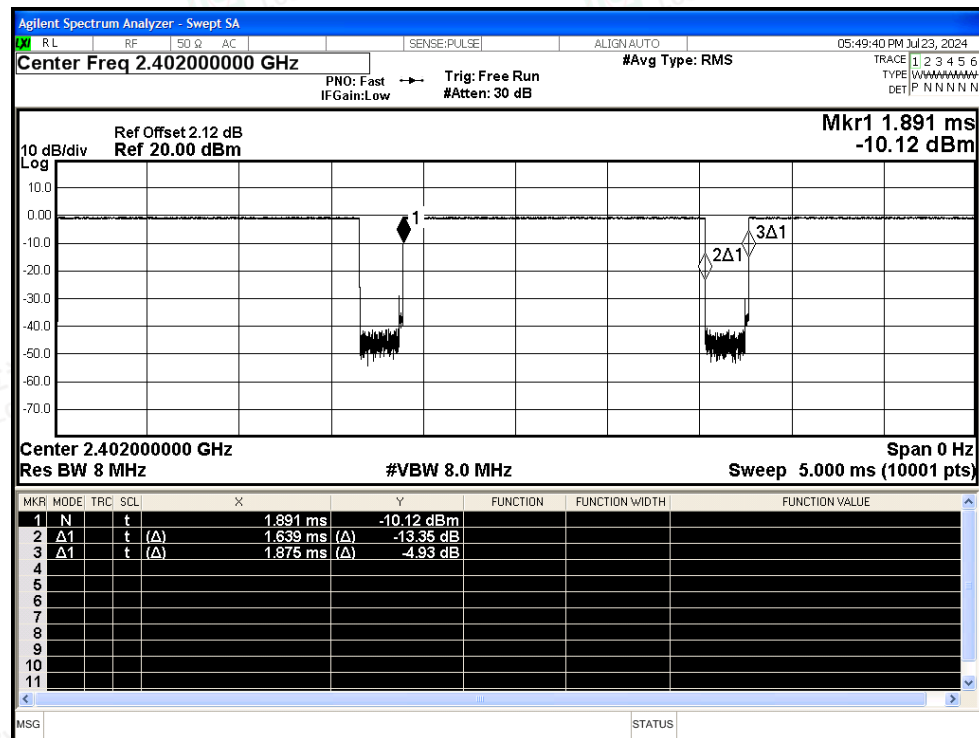


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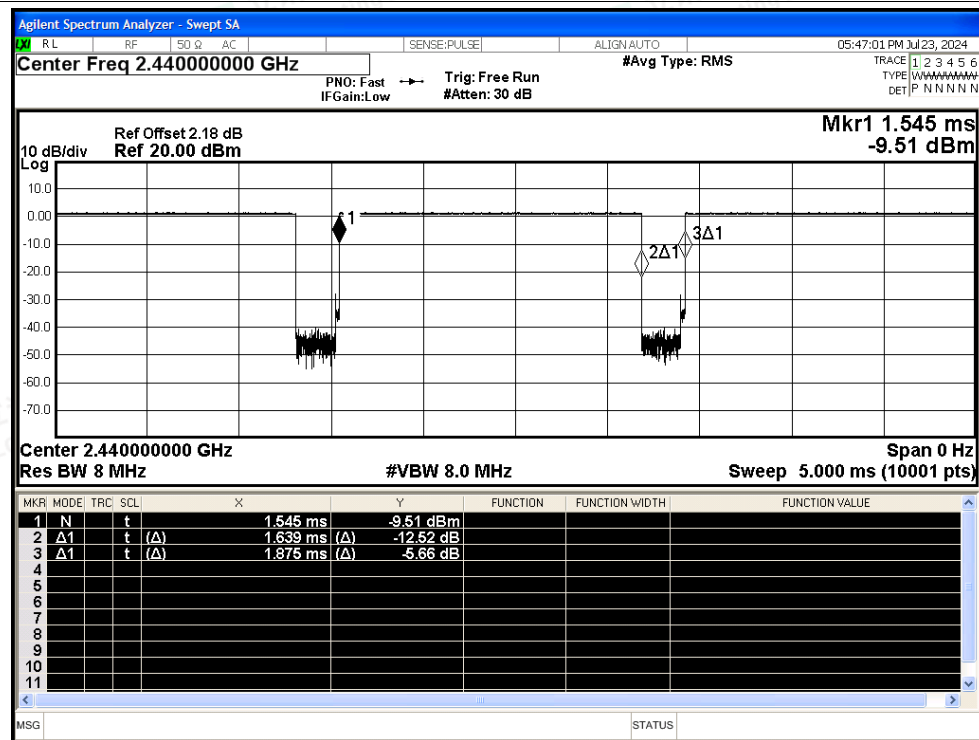


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

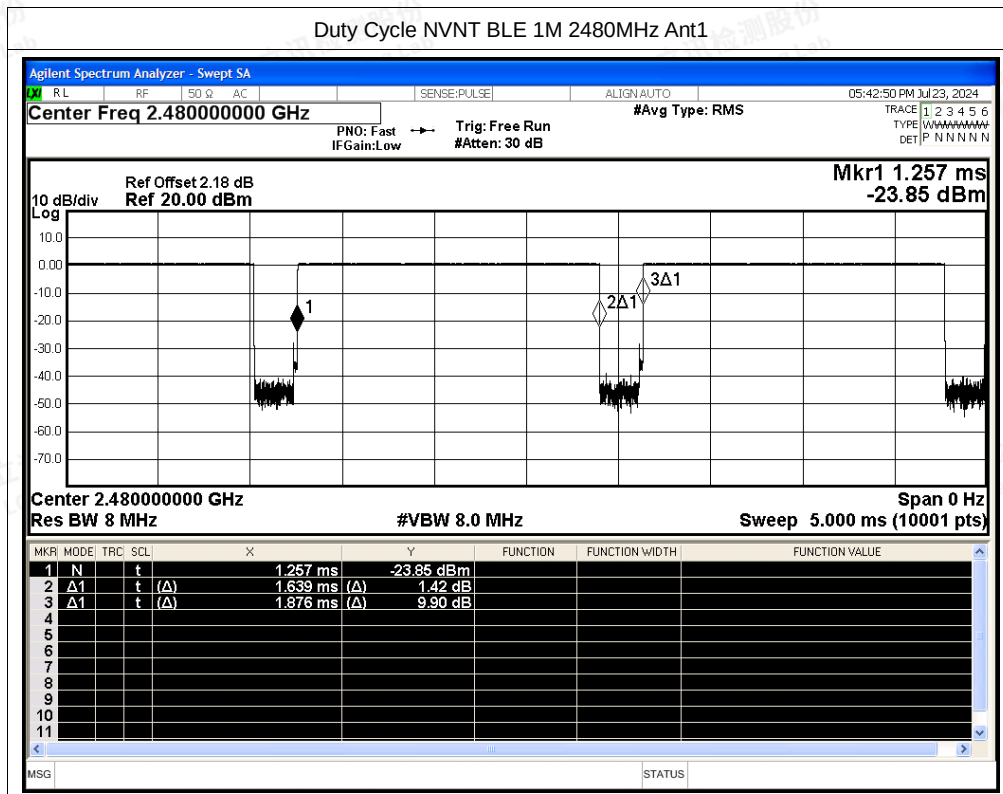


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B.7 Restrict Band

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	-51.96	2.0	-	45.3	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.34	2.0	0.59	39.51	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2330.256	-47.06	2.0	-	50.2	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2325.552	-57.54	2.0	0.59	40.31	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.09	2.0	-	48.17	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.31	2.0	0.59	39.54	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.33	2.0	-	48.93	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.78	2.0	0.59	40.07	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.752	-43.63	2.0	-	53.63	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.704	-57.11	2.0	0.59	40.74	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.58	2.0	-	46.68	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-57.47	2.0	0.59	40.38	Average	54	Pass



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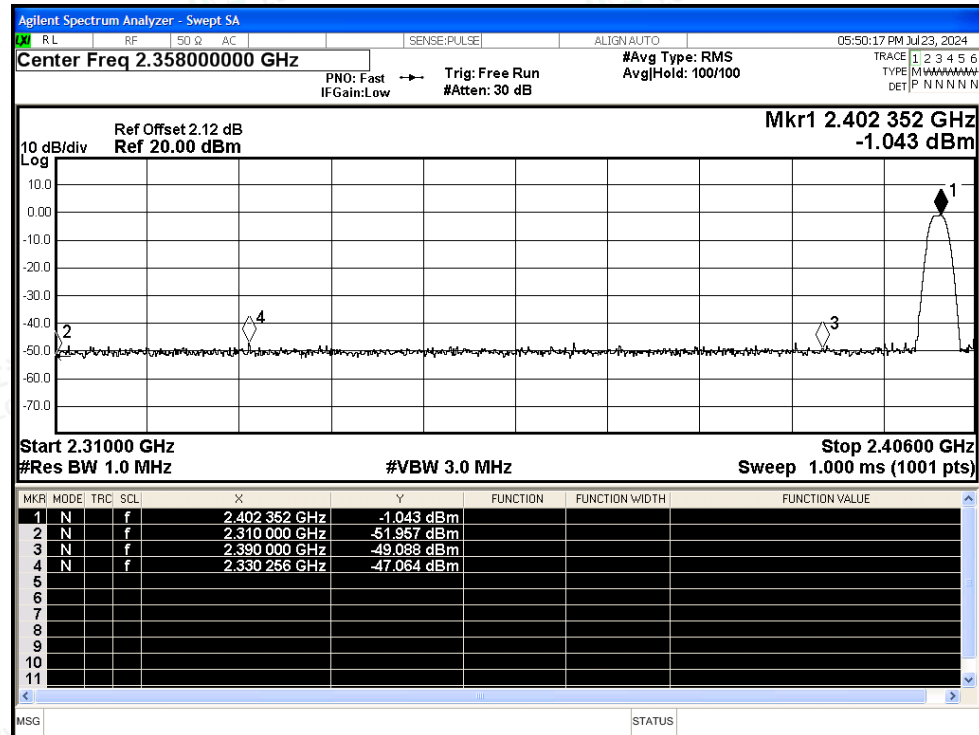
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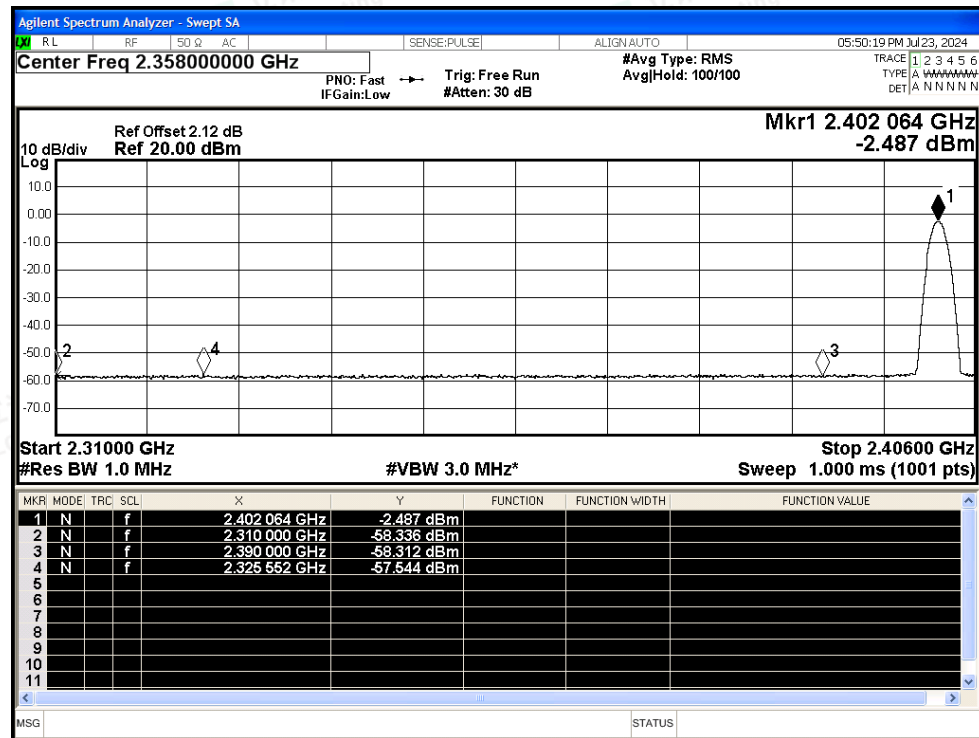


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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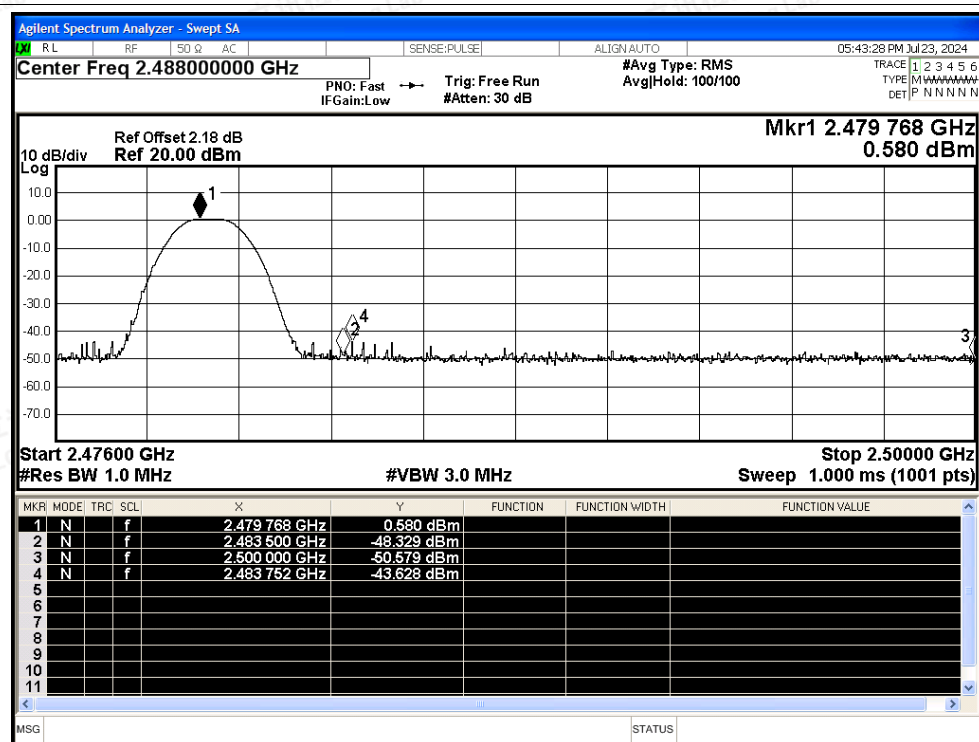
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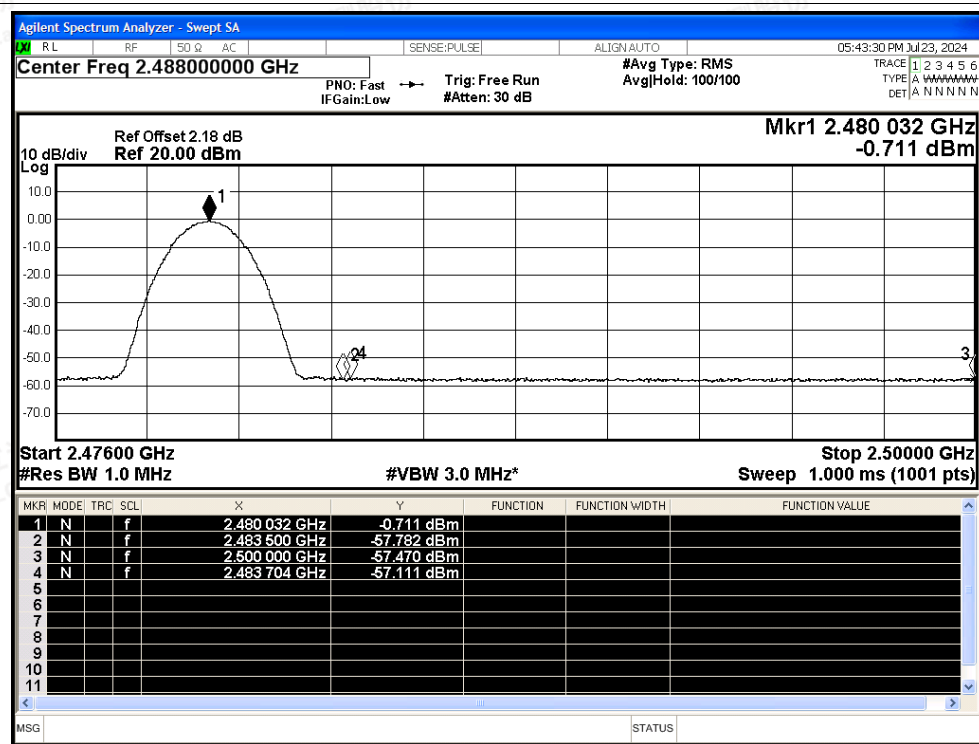
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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