



Appendix B

RF Test Data for BT LE(Conducted Measurement)

Product Name: Pocket Unit

Test Model: 900.1002.01

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
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	0.7	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.696	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.691	≥ 0.5	Pass



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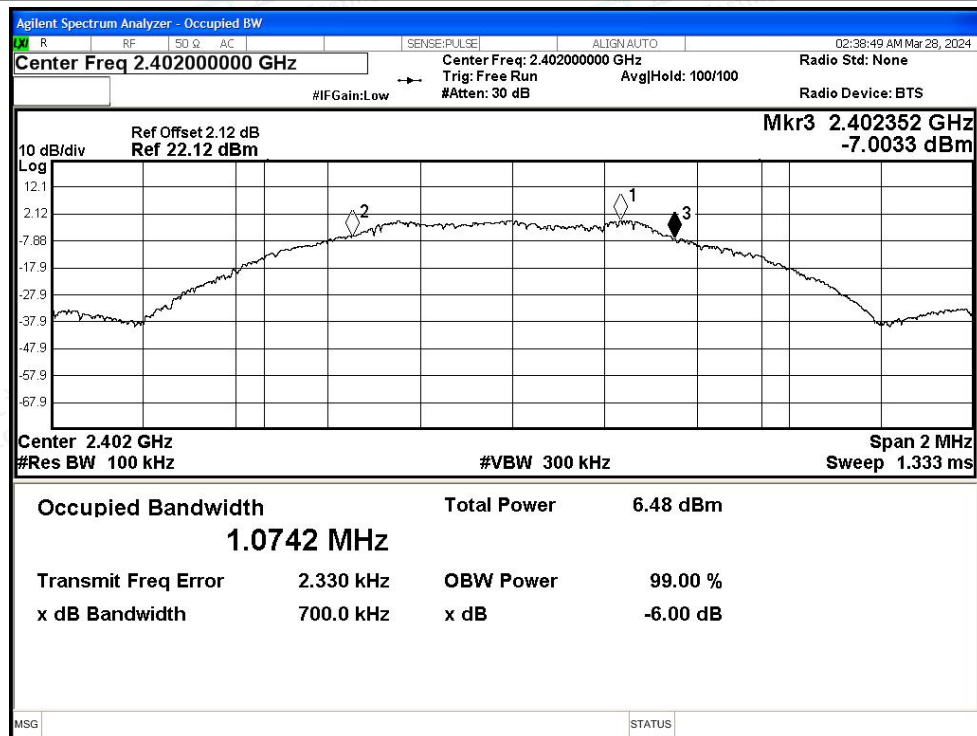
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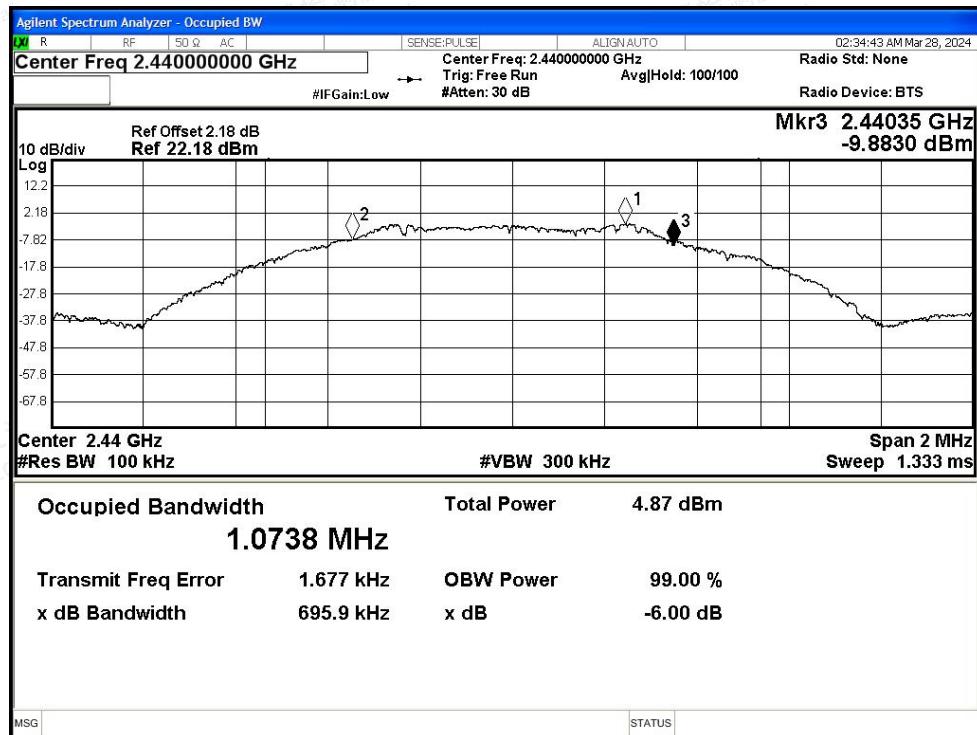


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

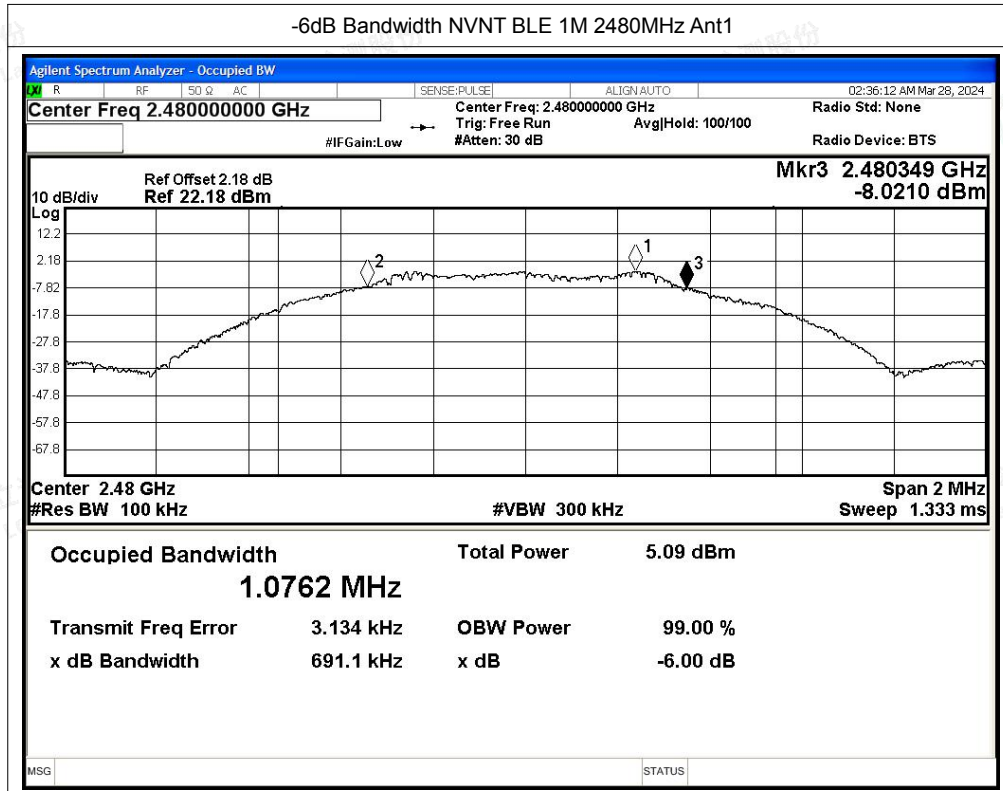


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B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.78	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.78	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.64	30	Pass



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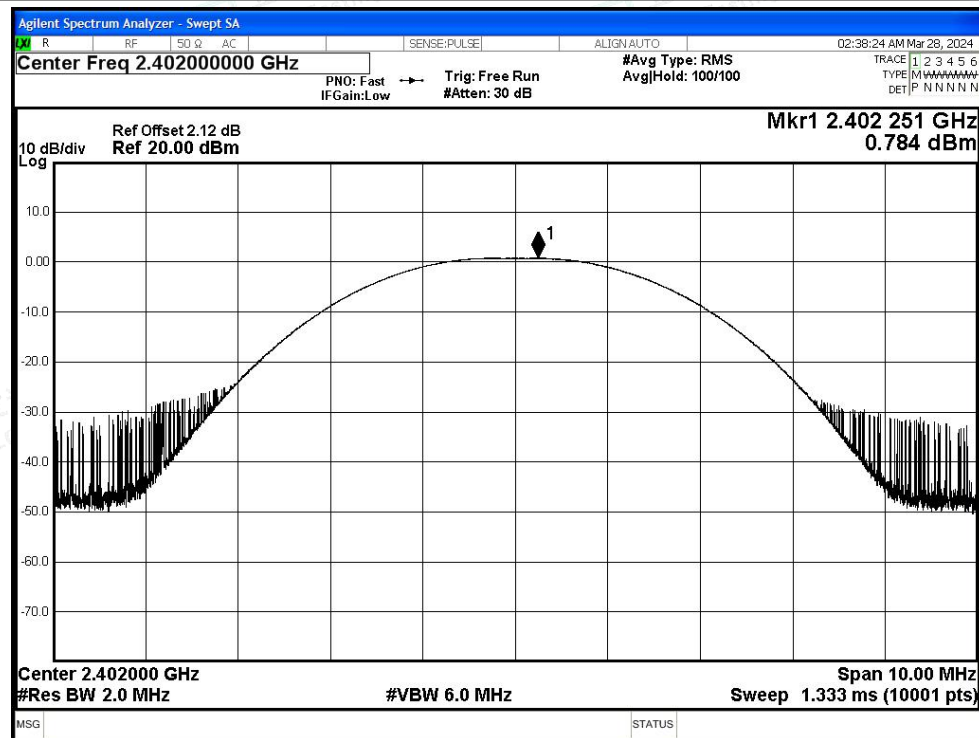
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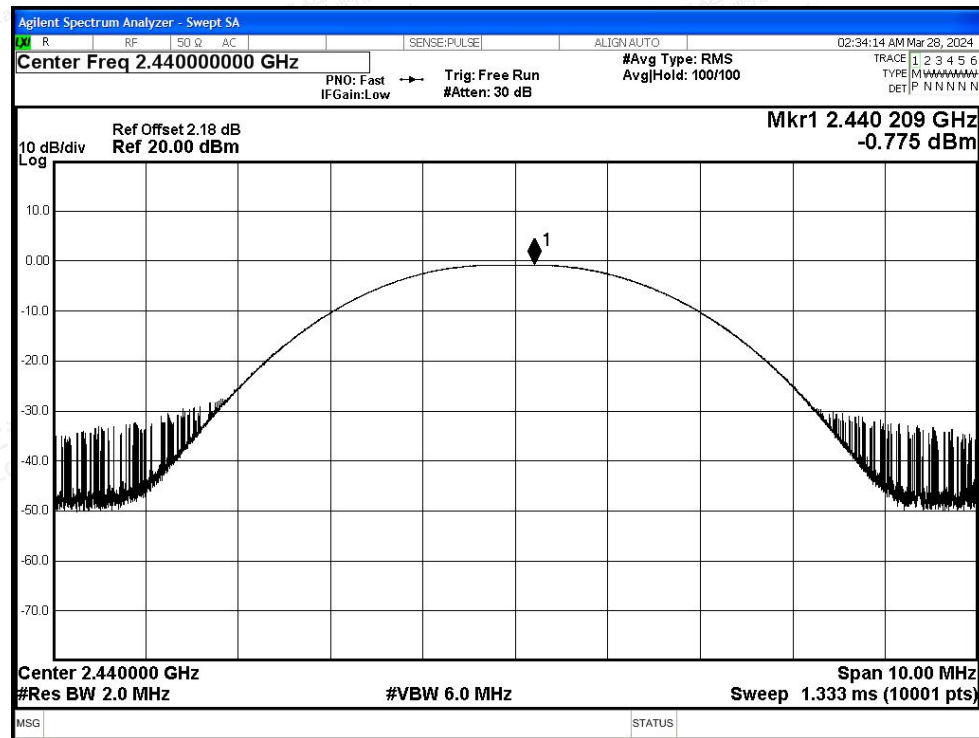


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

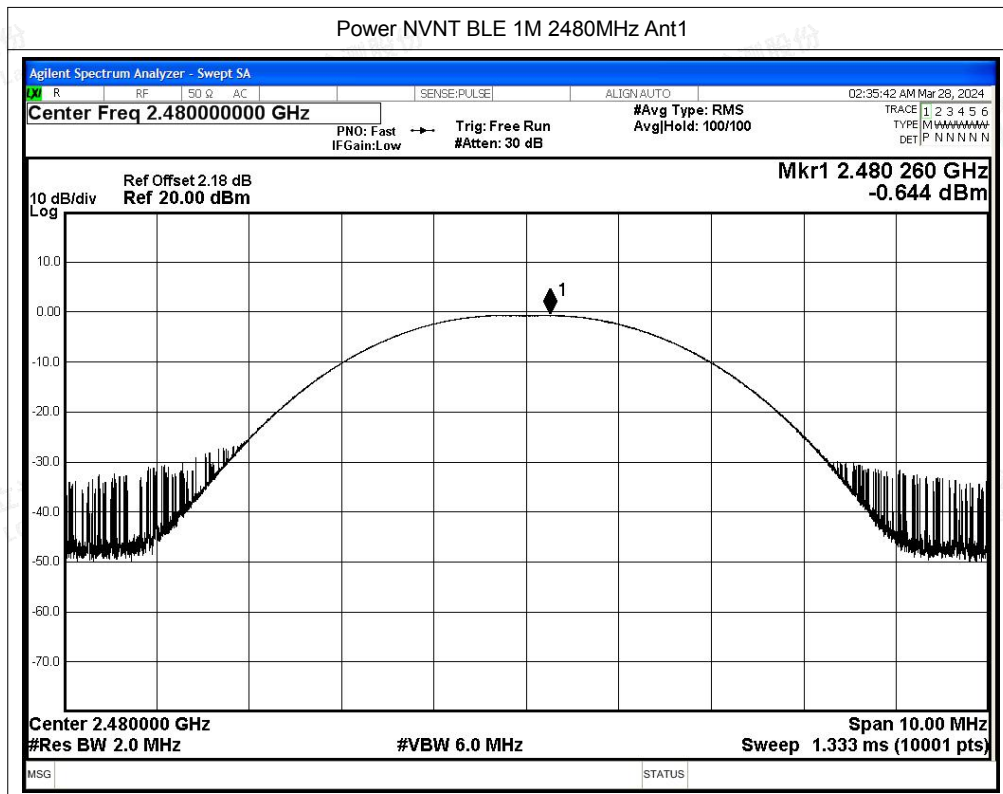


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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-14.5	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.24	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.52	8	Pass



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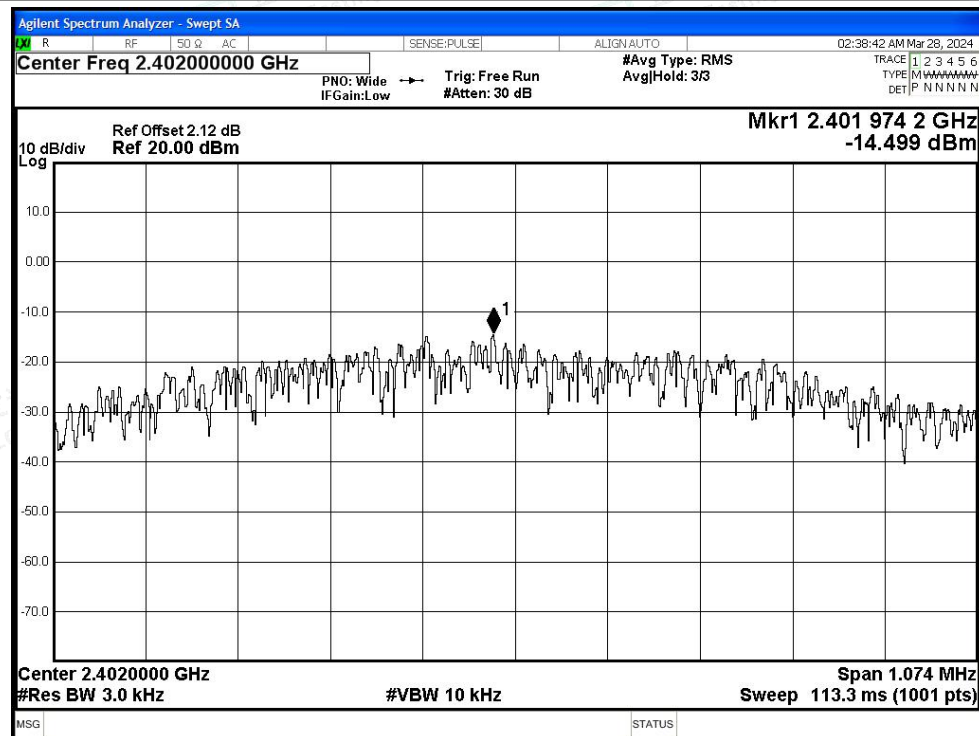
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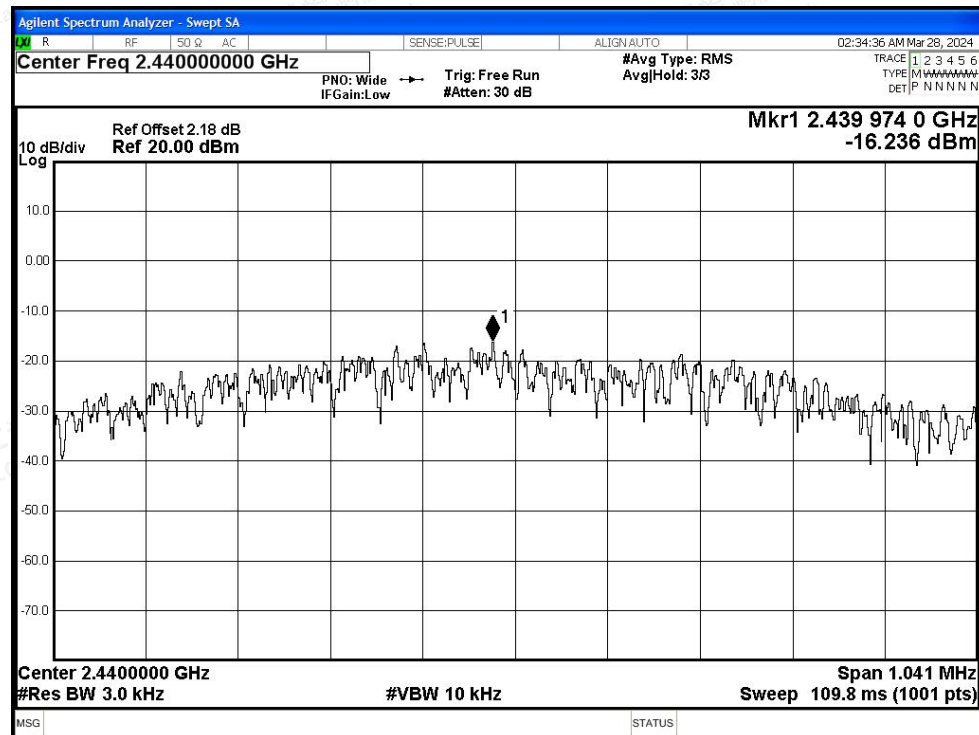


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

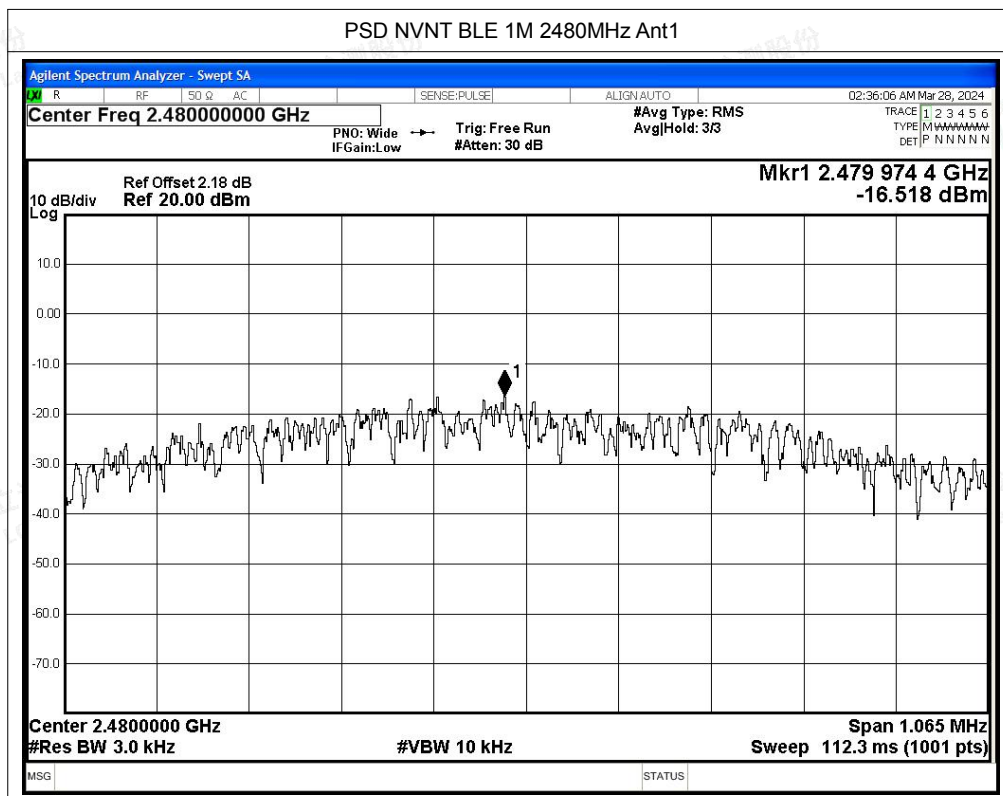


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-47.33	-20	Pass
NVNT	BLE 1M	2480	Ant1	-51.11	-20	Pass



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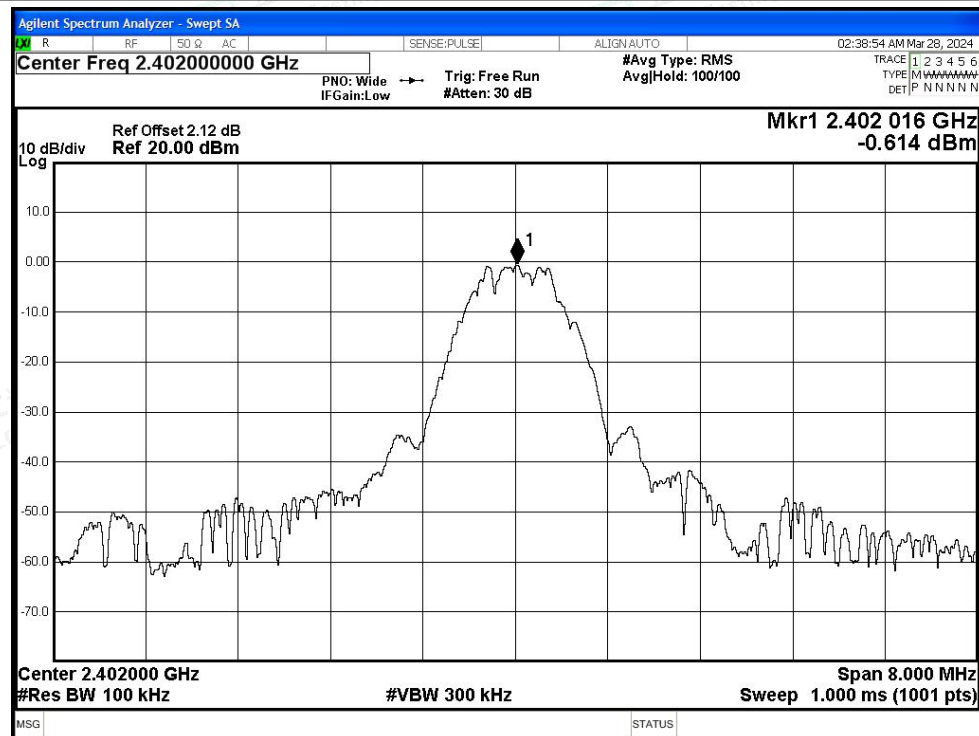
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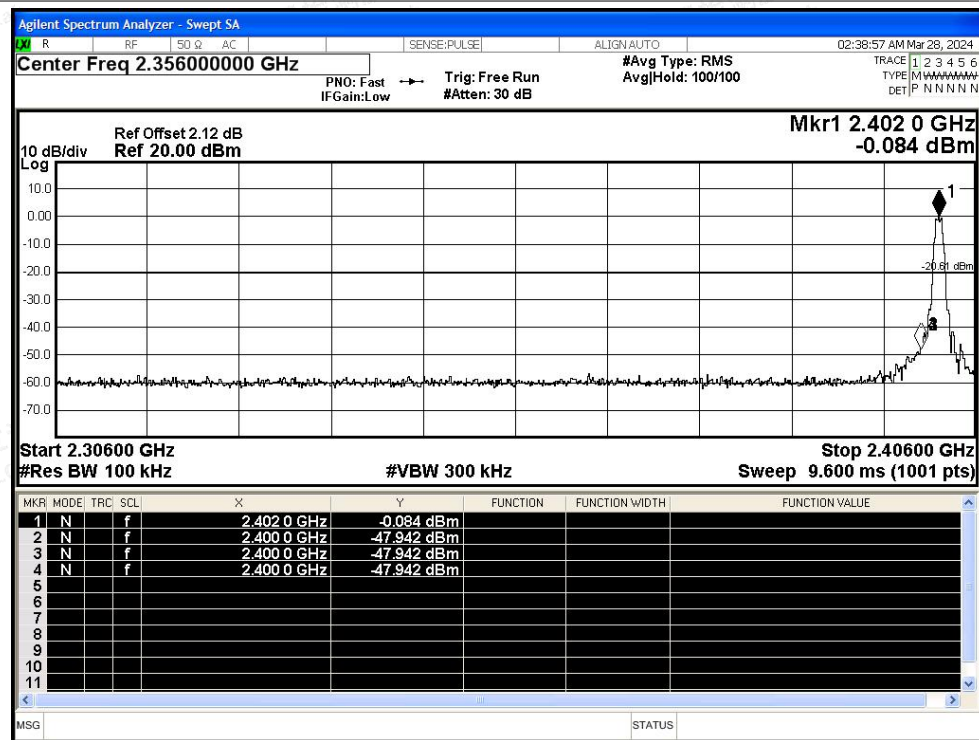


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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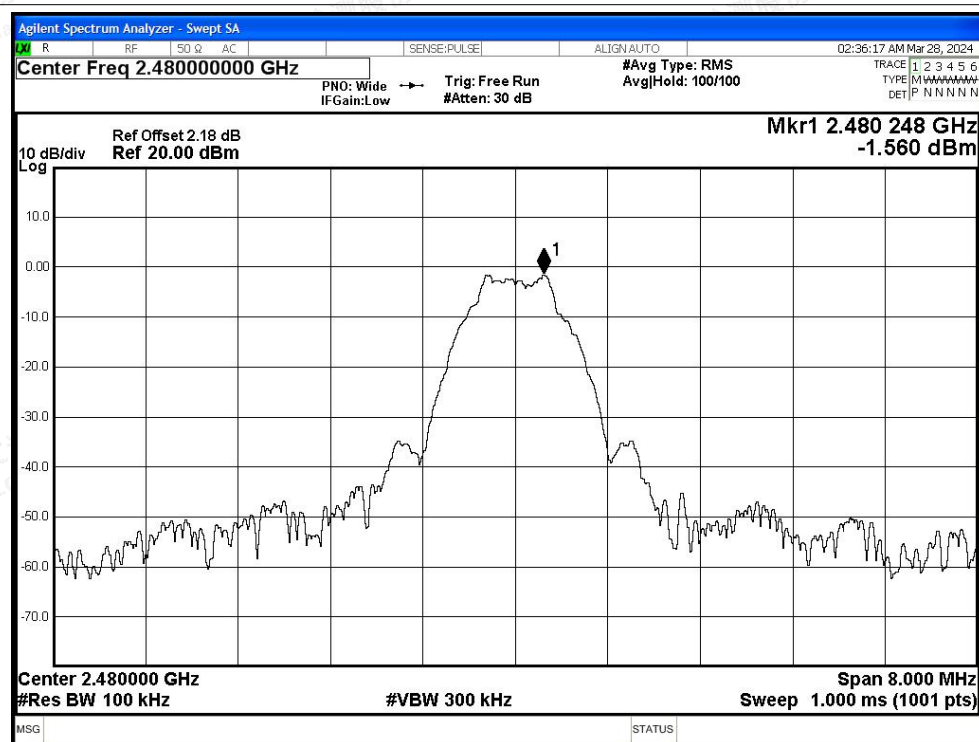
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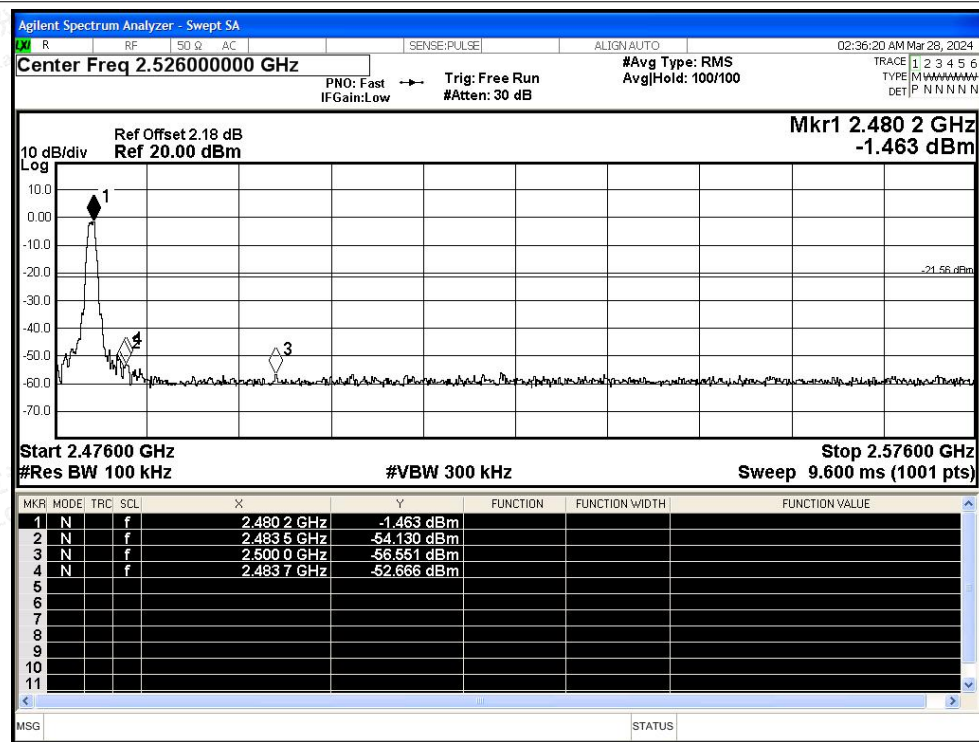
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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B.5 Conducted RF Spurious Emission

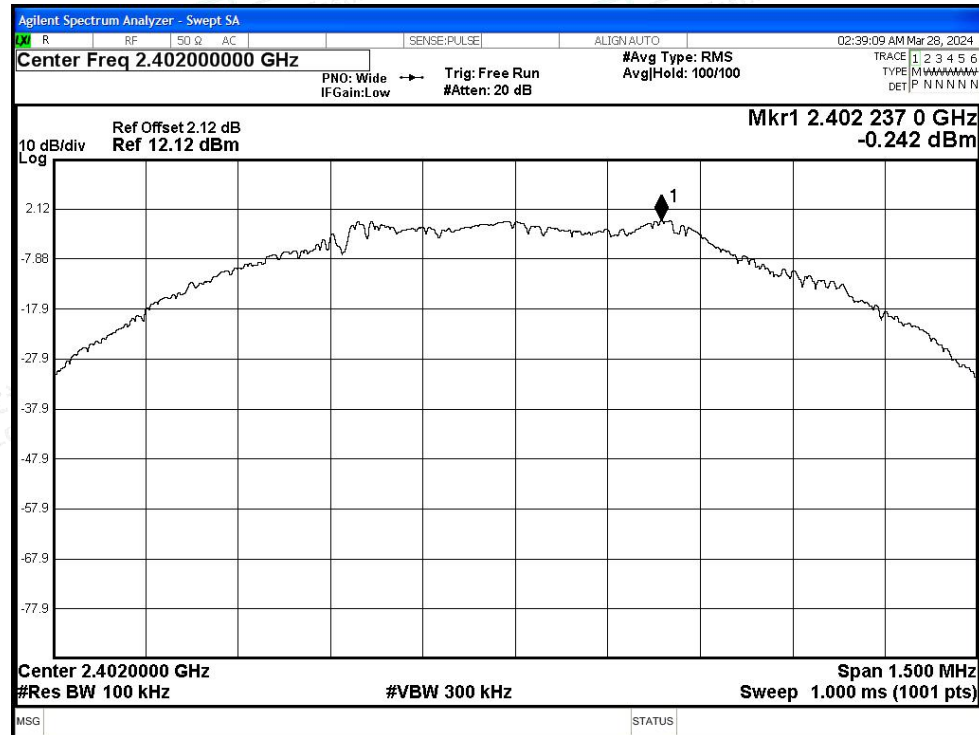
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.33	-20	Pass
NVNT	BLE 1M	2440	Ant1	-53.54	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.59	-20	Pass



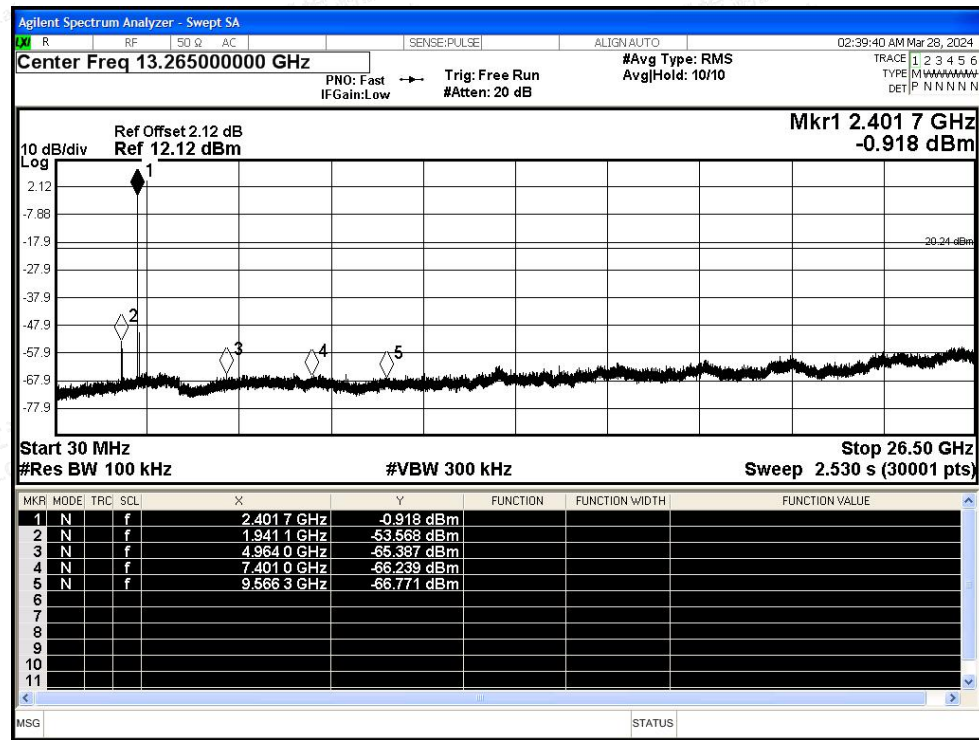


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

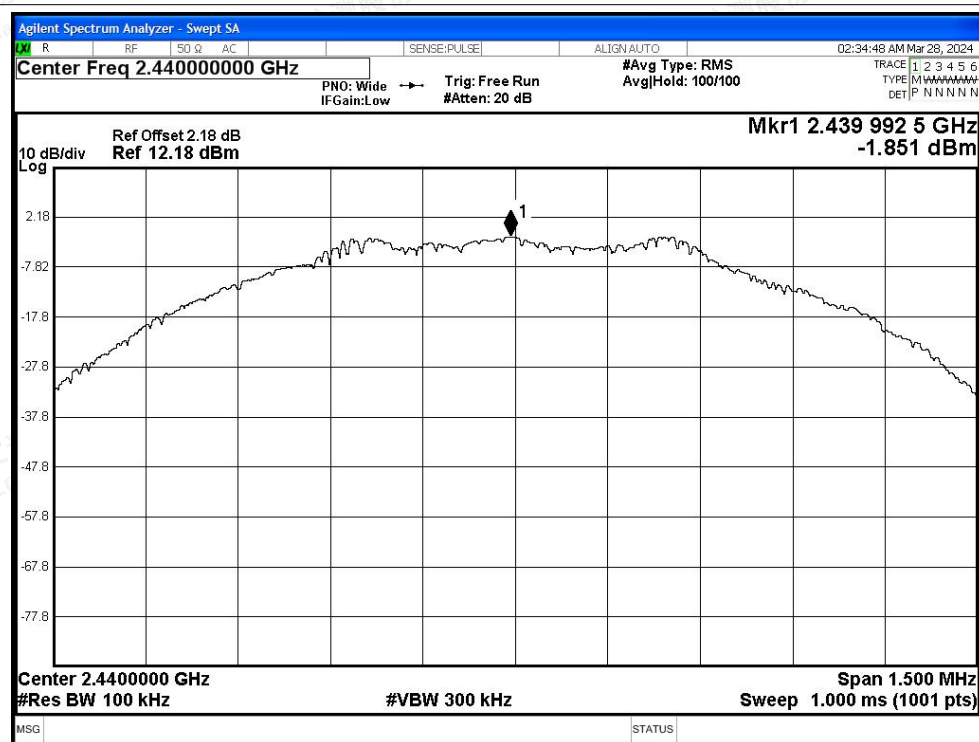
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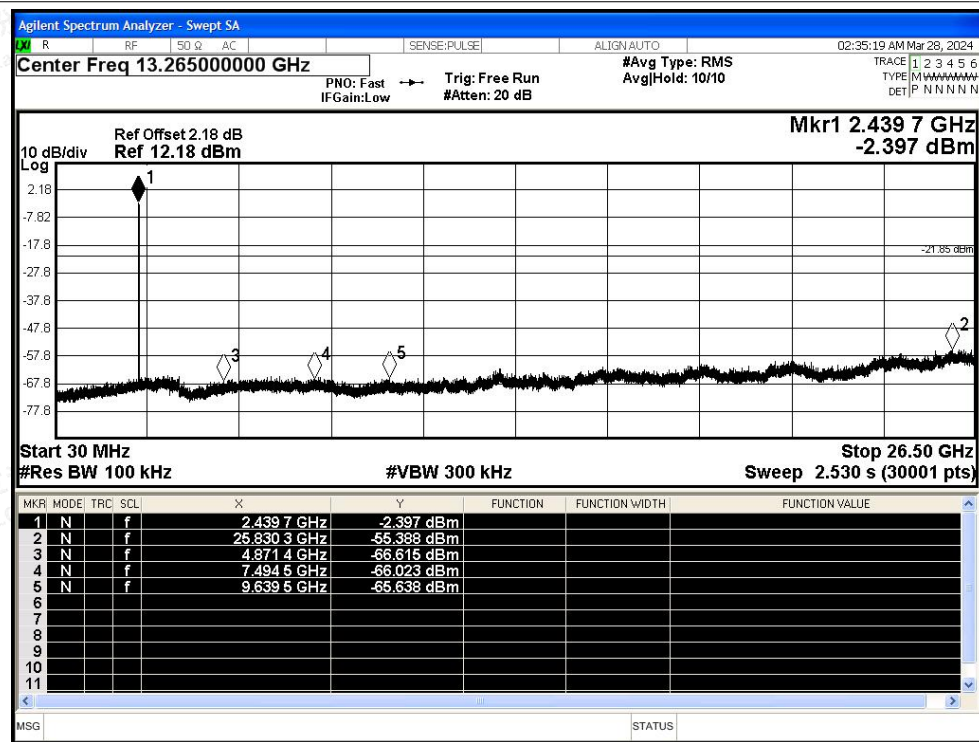
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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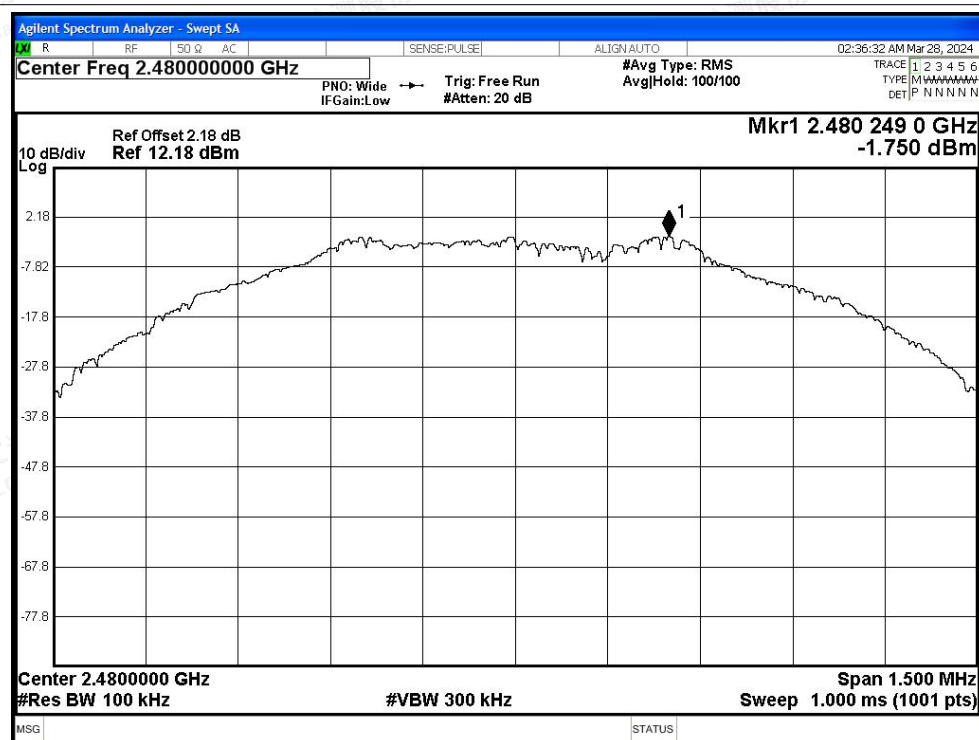
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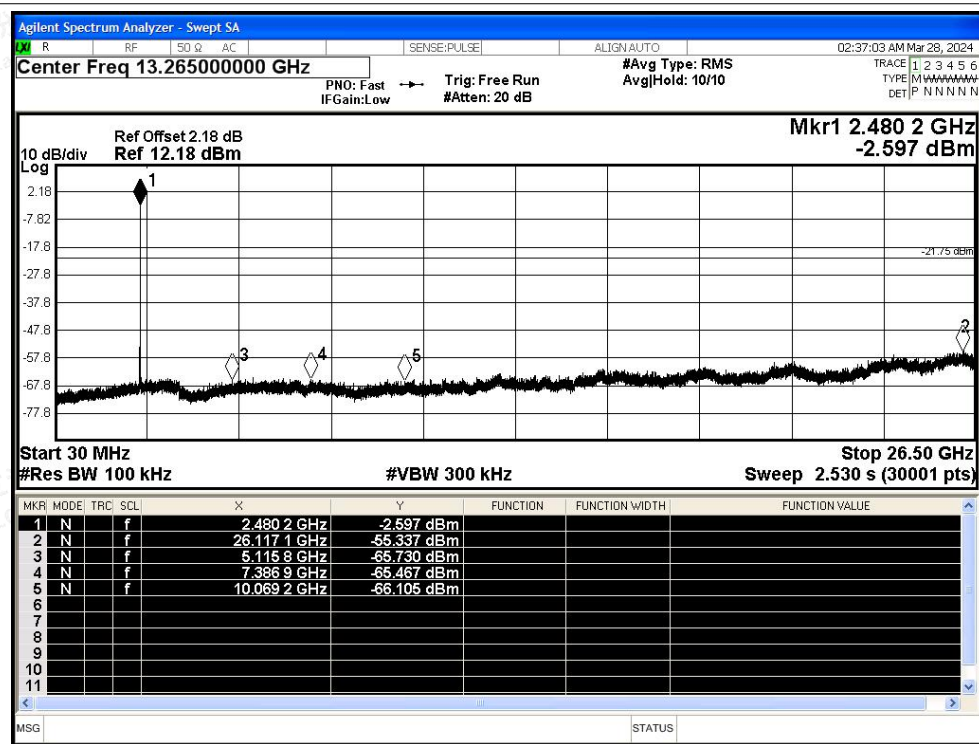
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



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	61.56	2.11	2.61
NVNT	BLE 1M	2440	Ant1	61.6	2.1	2.6
NVNT	BLE 1M	2480	Ant1	61.68	2.1	2.59



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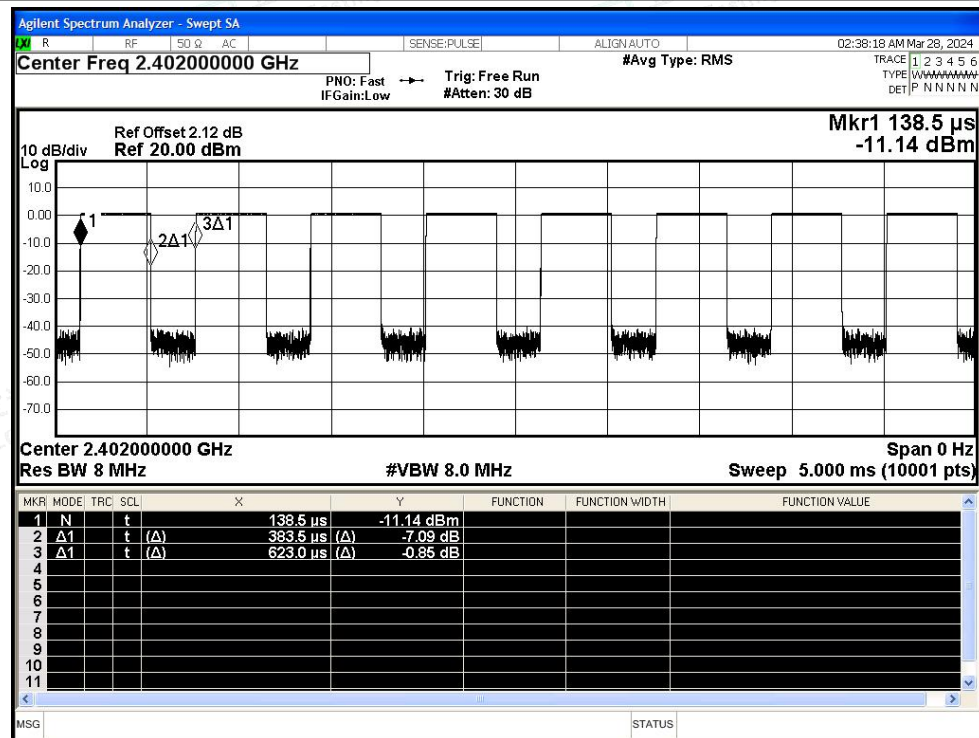
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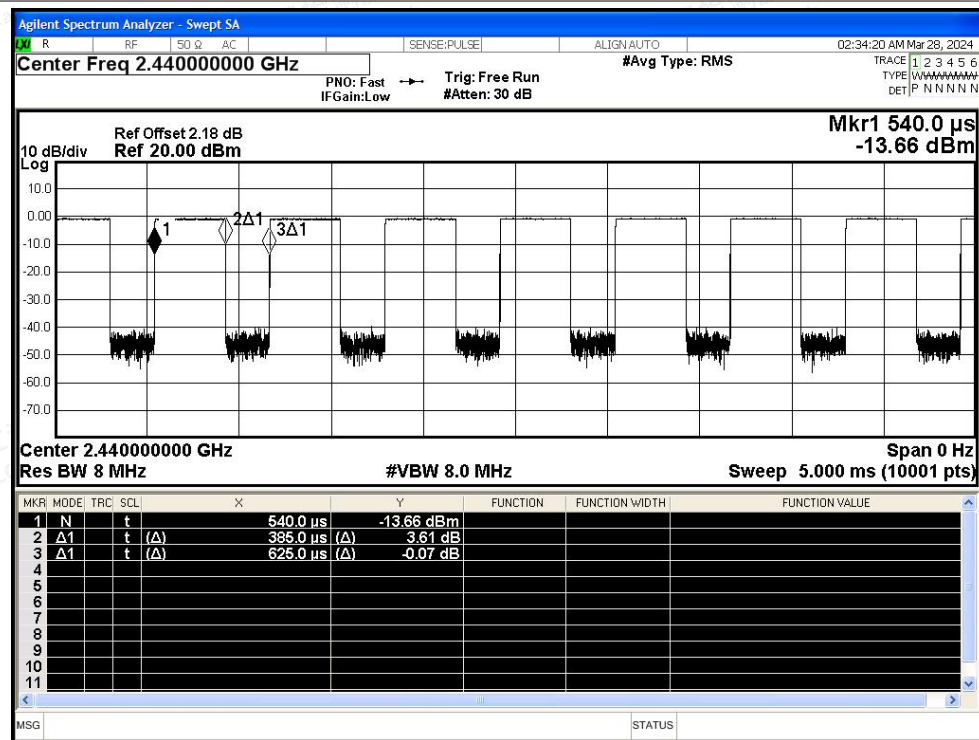


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

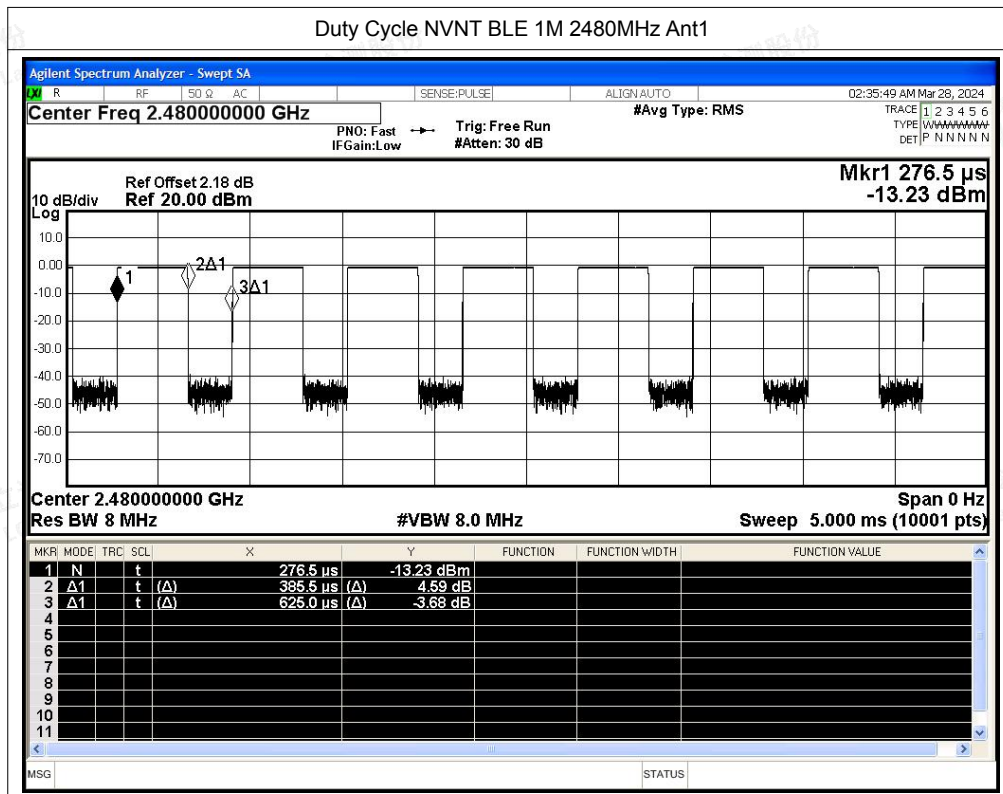


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B.7 Restrict Band

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	-50.84	2	-	46.42	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.43	2	2.11	40.94	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2382.384	-47.16	2	-	50.1	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2343.504	-57.52	2	2.11	41.85	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-48.95	2	-	48.31	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-57.81	2	2.11	41.56	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-37.49	2	-	59.77	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.65	2	2.1	41.71	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.536	-37.44	2	-	59.82	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.608	-55.34	2	2.1	44.02	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.89	2	-	47.37	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.48	2	2.1	40.88	Average	54	Pass



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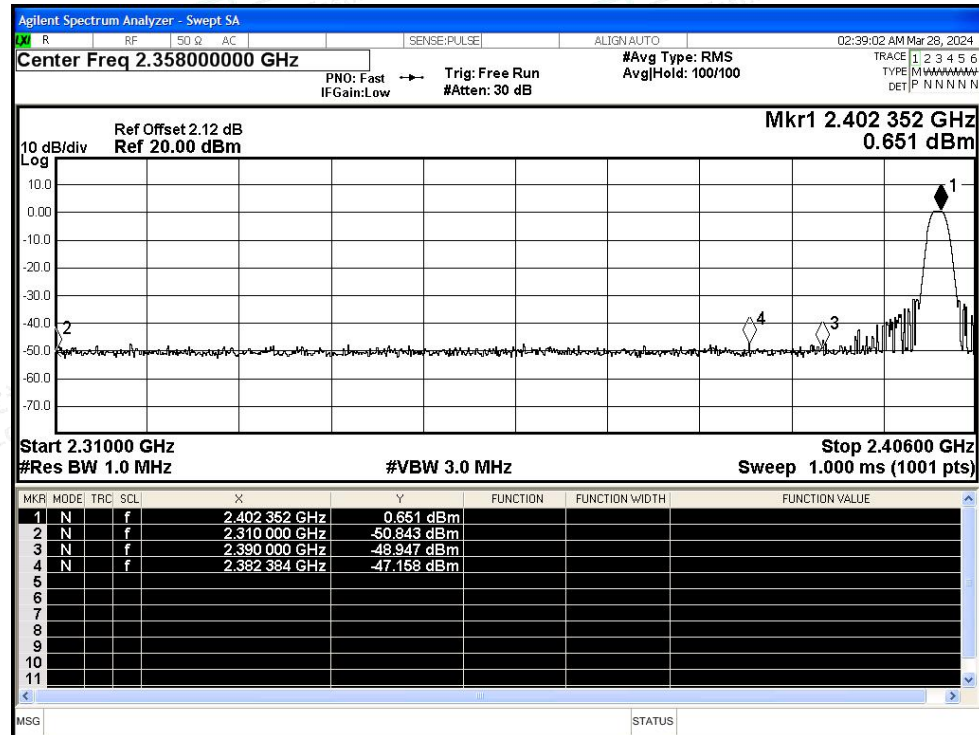
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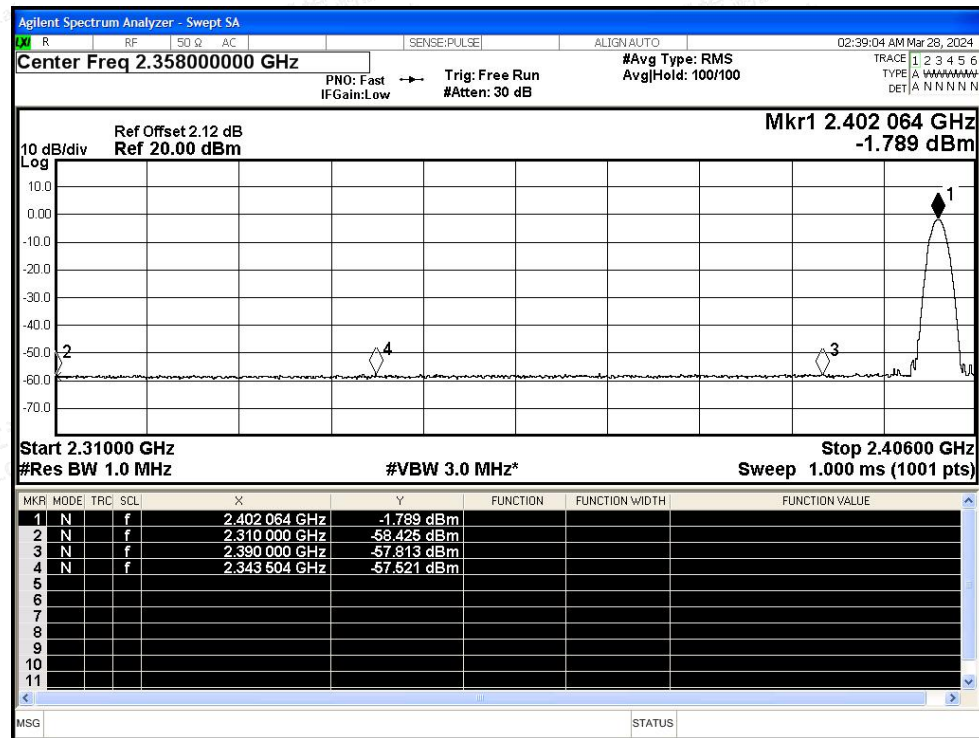


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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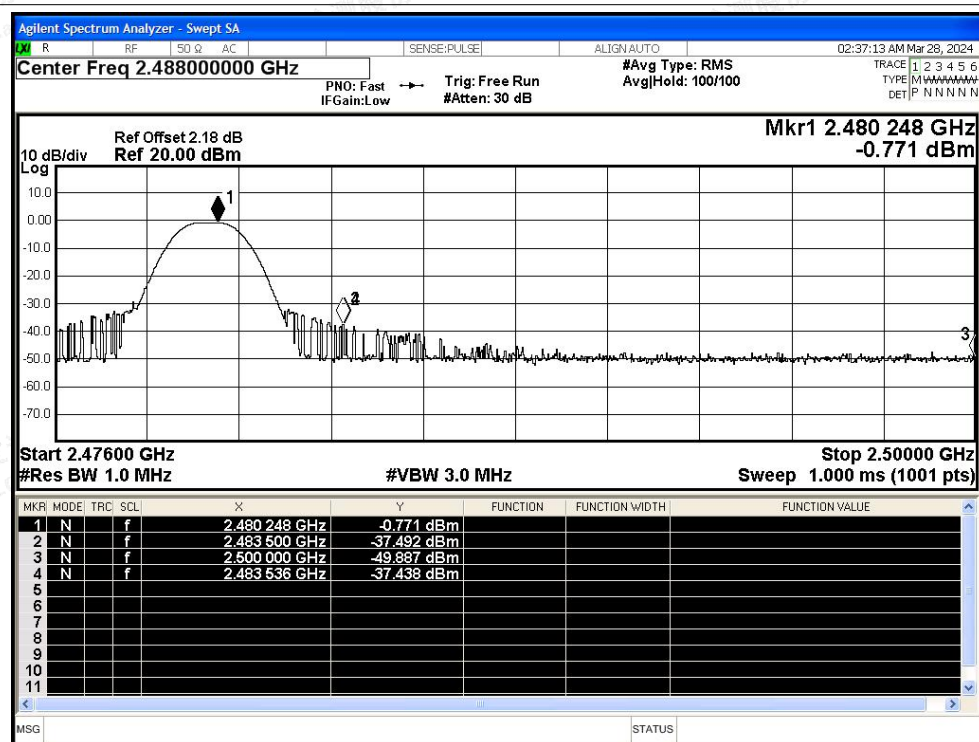
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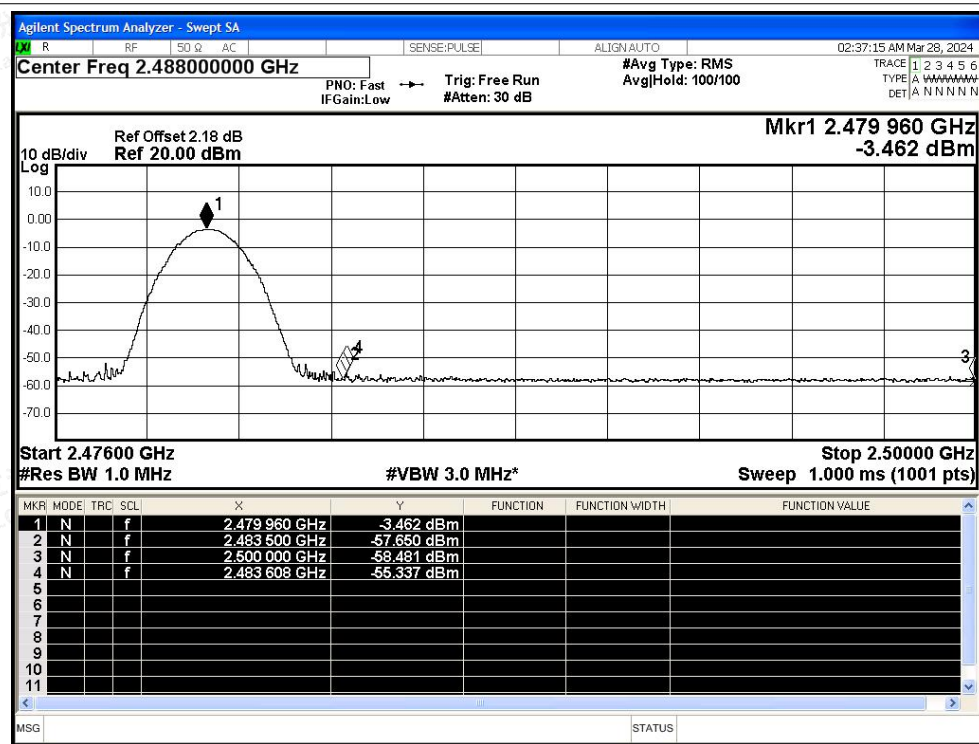
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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