



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: myFirst Fone R2

Test Model: KW1306

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

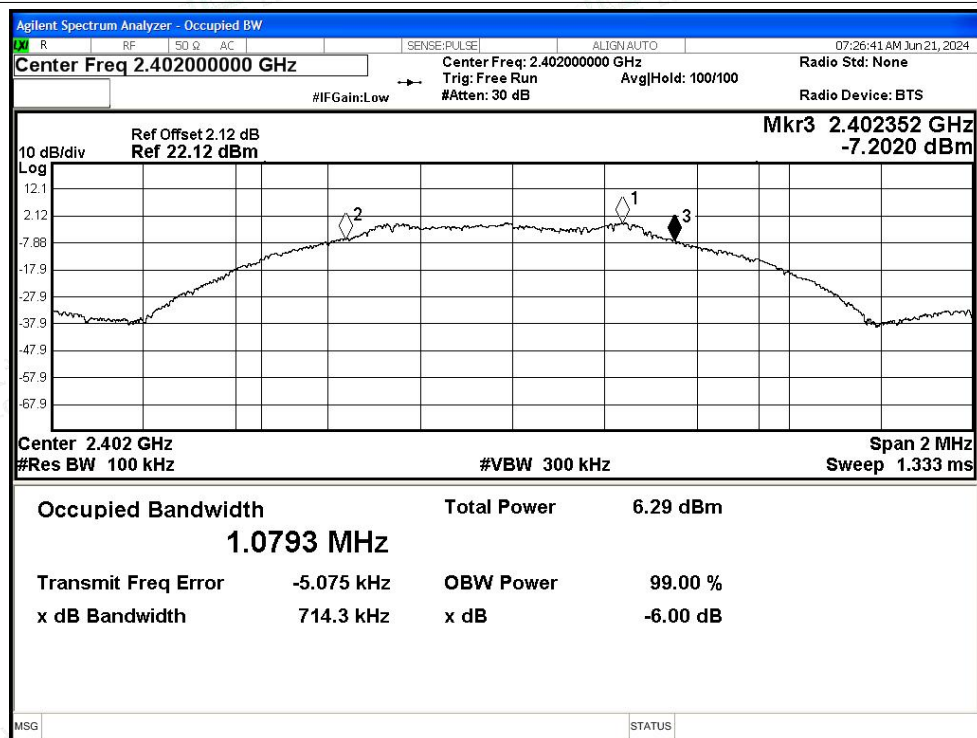
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.714	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.7	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.699	≥ 0.5	Pass



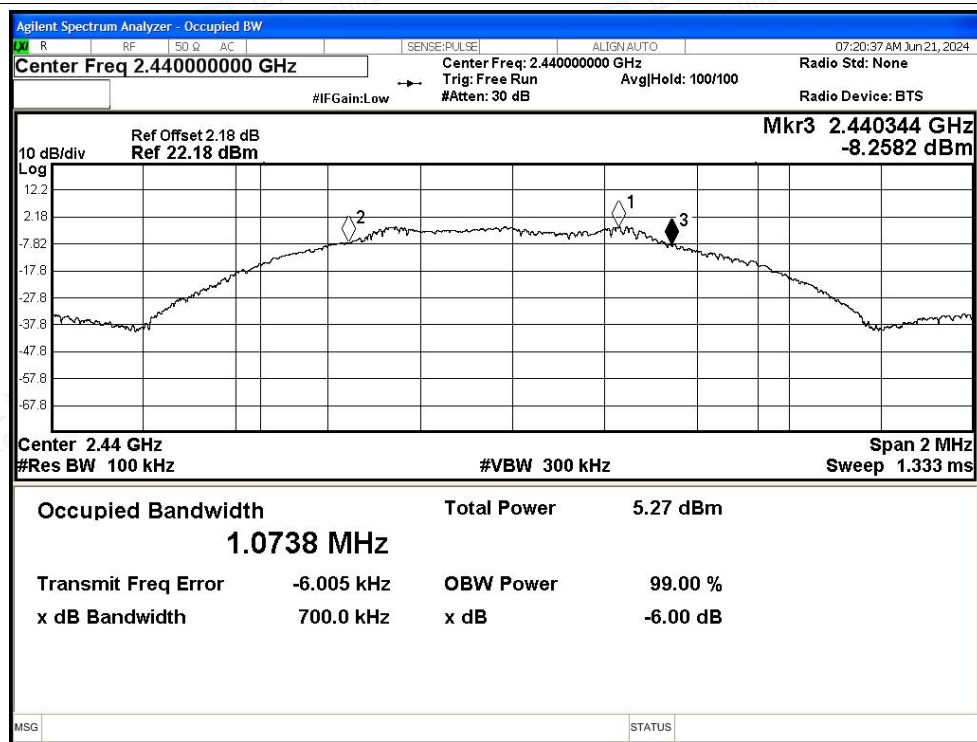


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

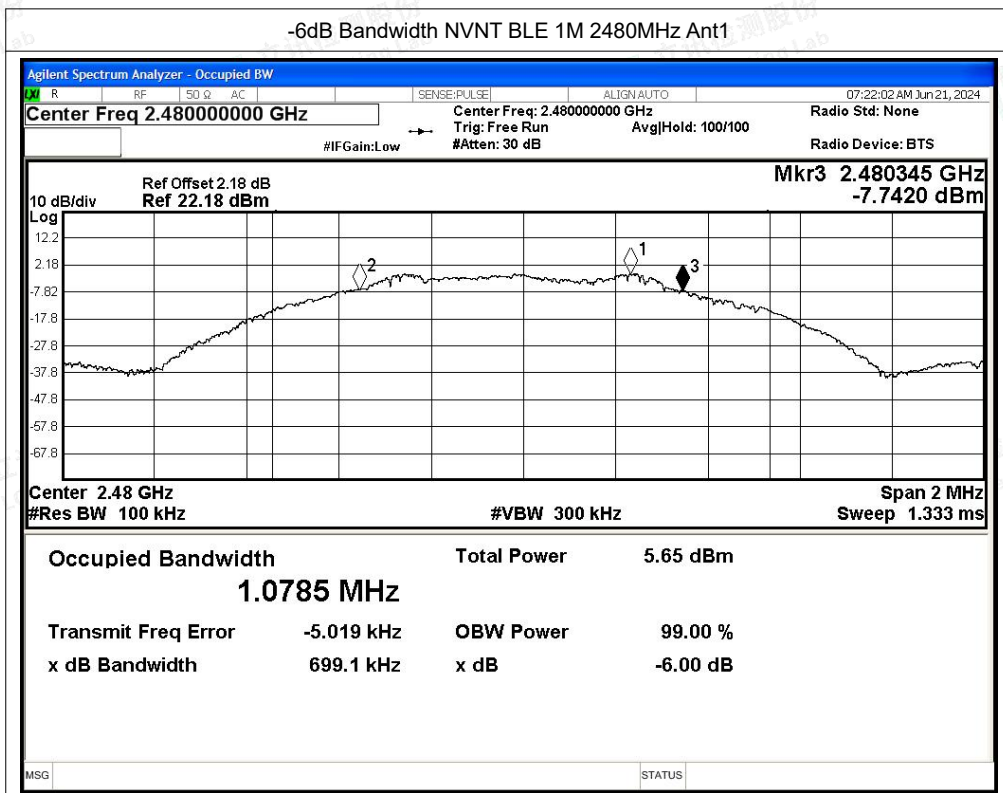


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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.54	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.43	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.1	30	Pass



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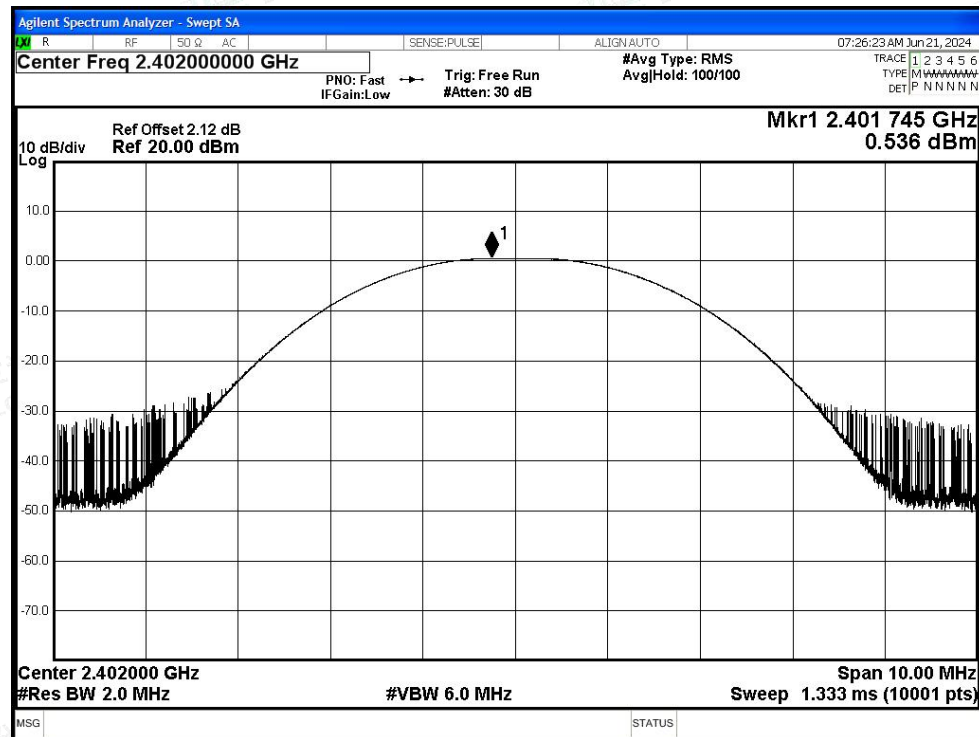
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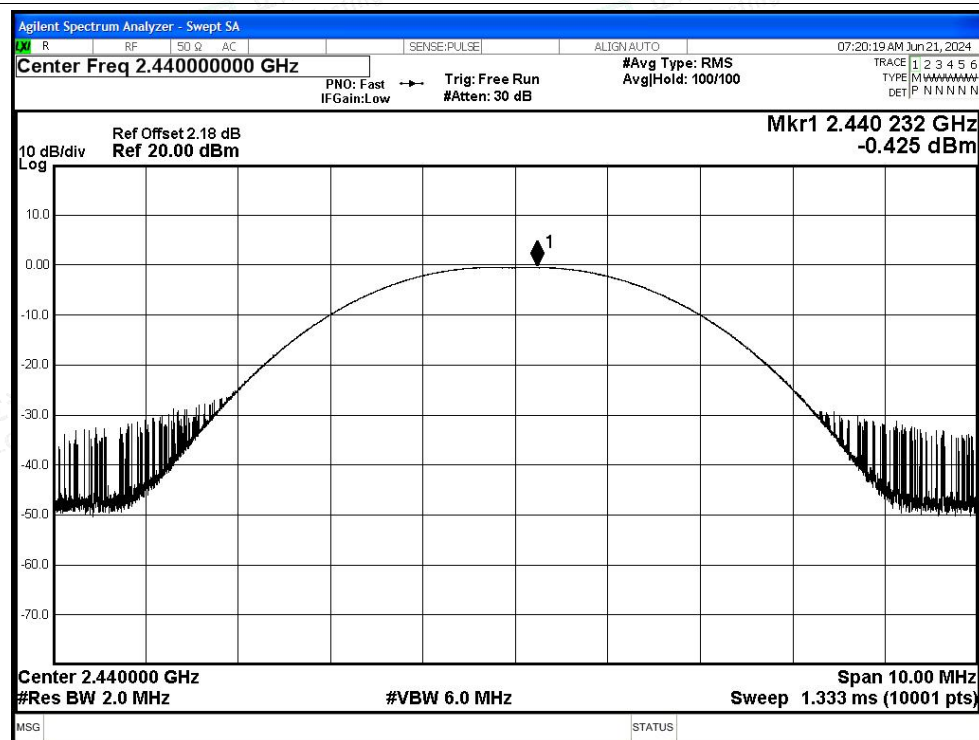


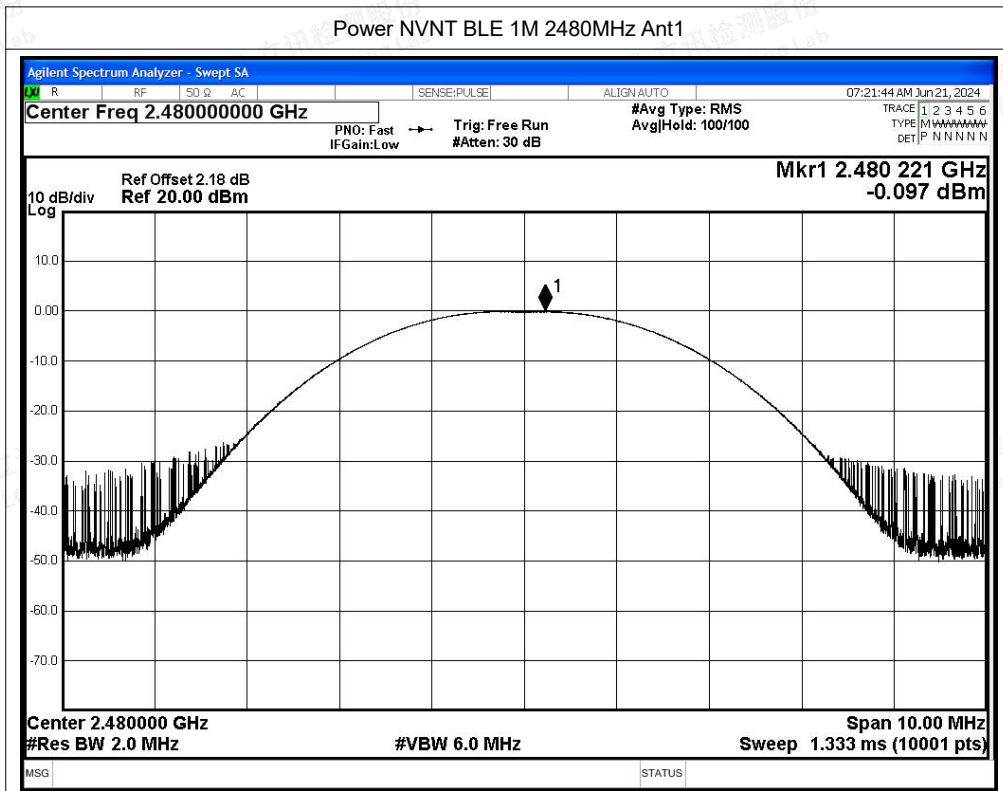
Test Graphs

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	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-14.87	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.71	8	Pass
NVNT	BLE 1M	2480	Ant1	-15.3	8	Pass

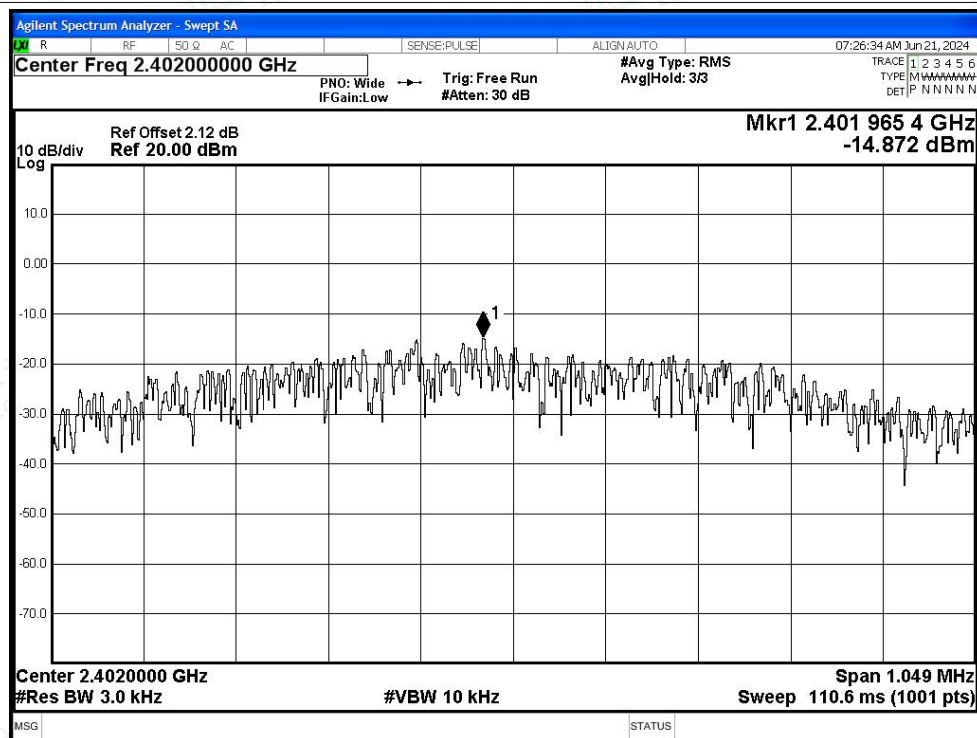


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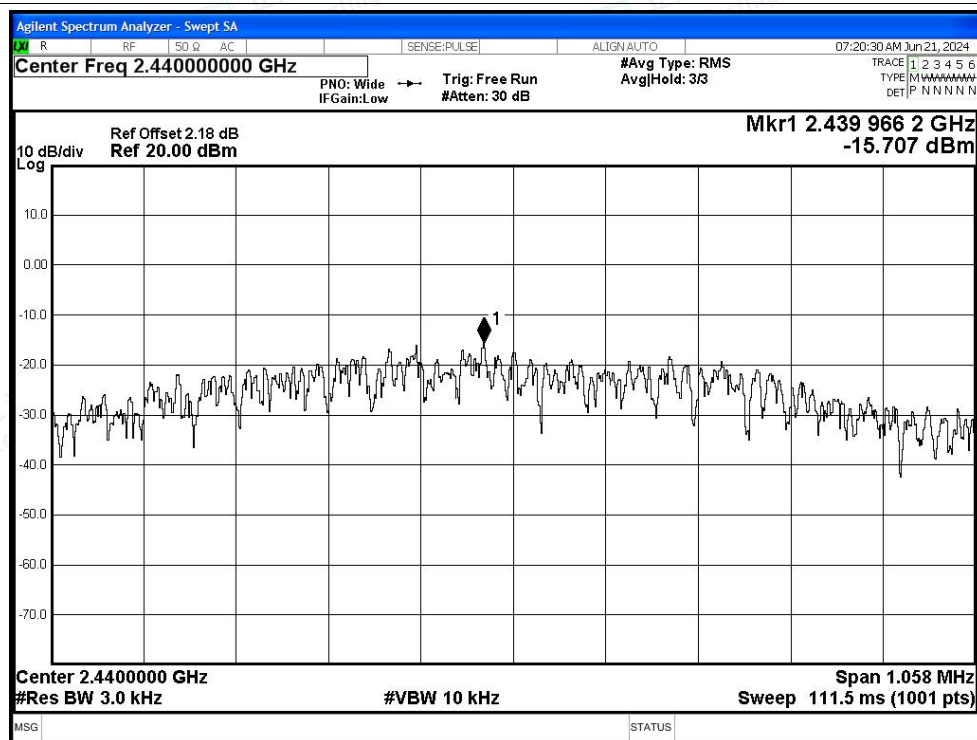


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

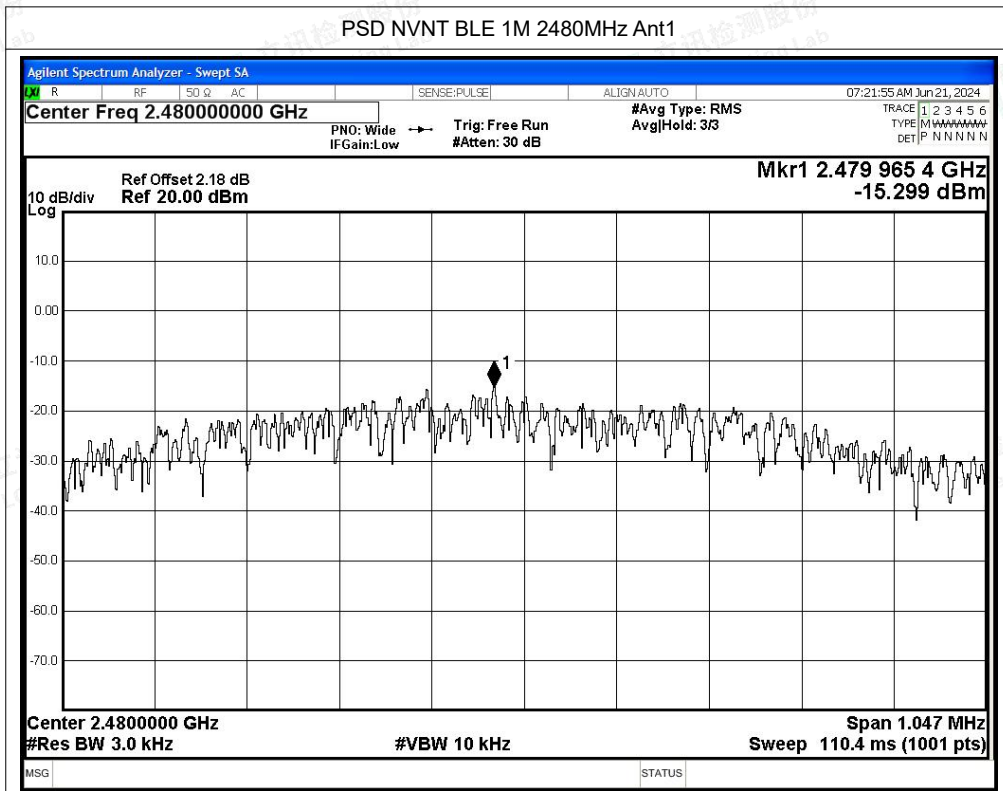


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-46.09	-20	Pass
NVNT	BLE 1M	2480	Ant1	-50.01	-20	Pass



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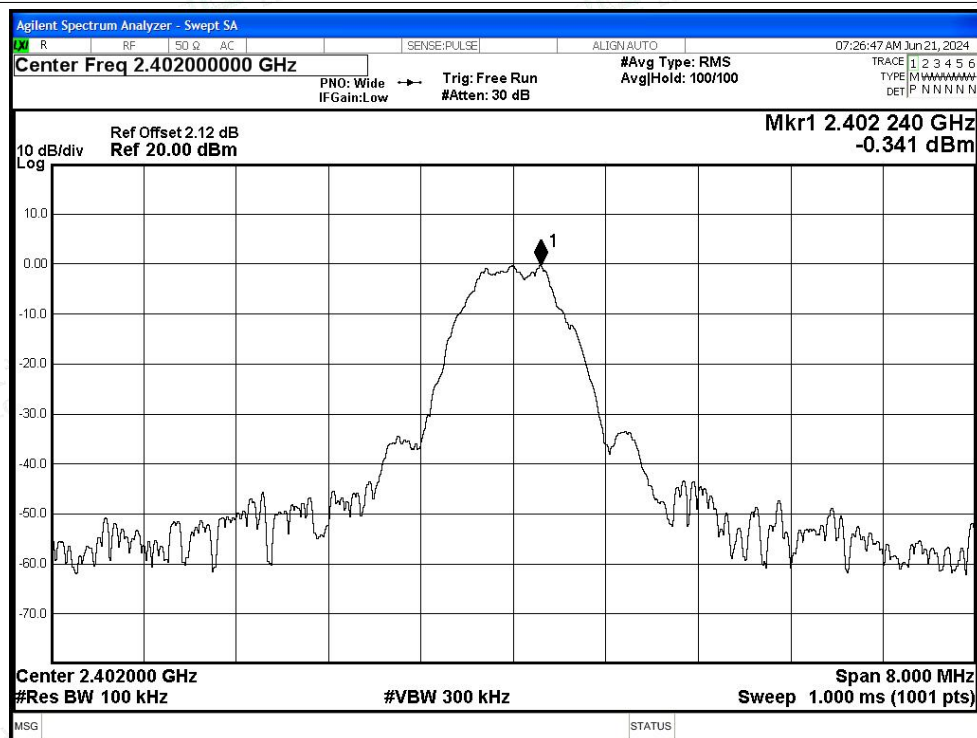
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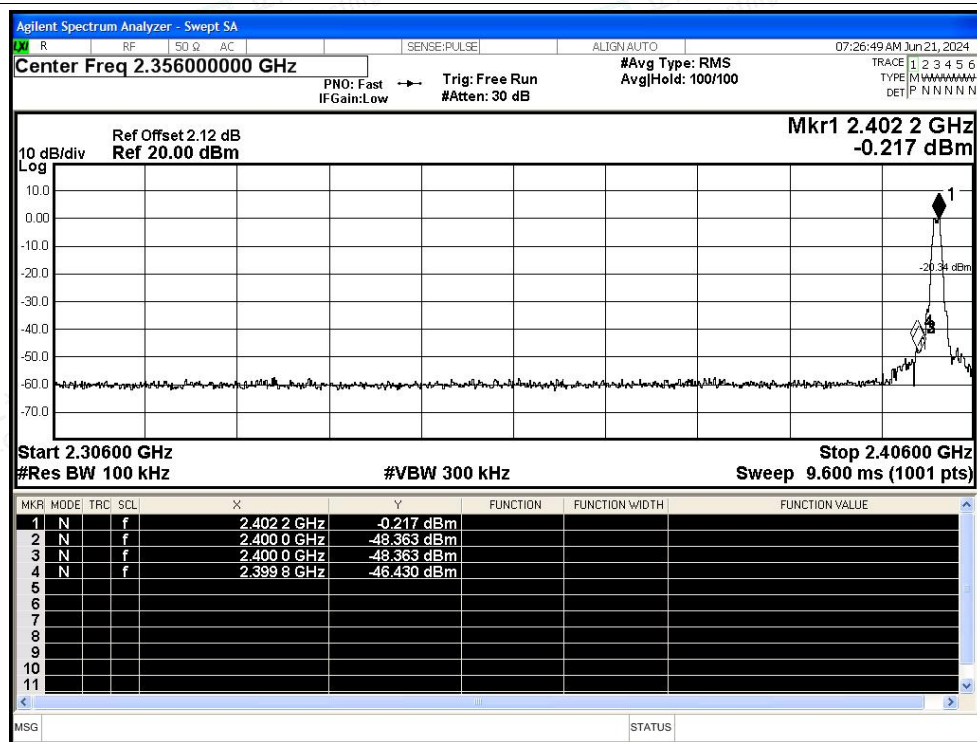


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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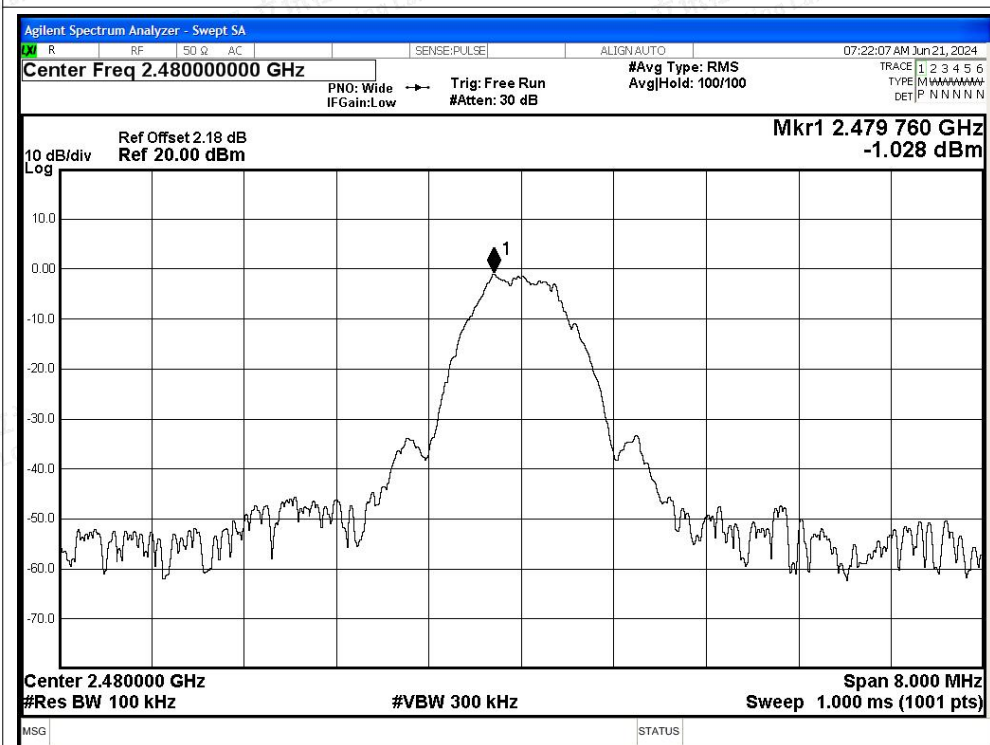
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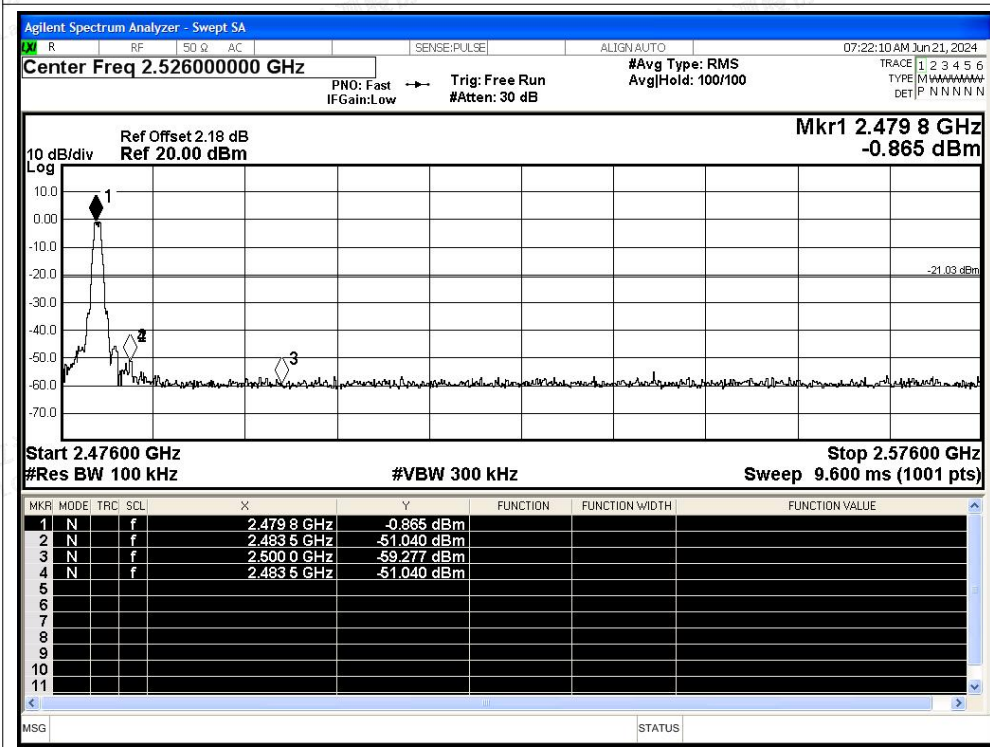
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



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	-55.35	-20	Pass
NVNT	BLE 1M	2440	Ant1	-54.23	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.31	-20	Pass

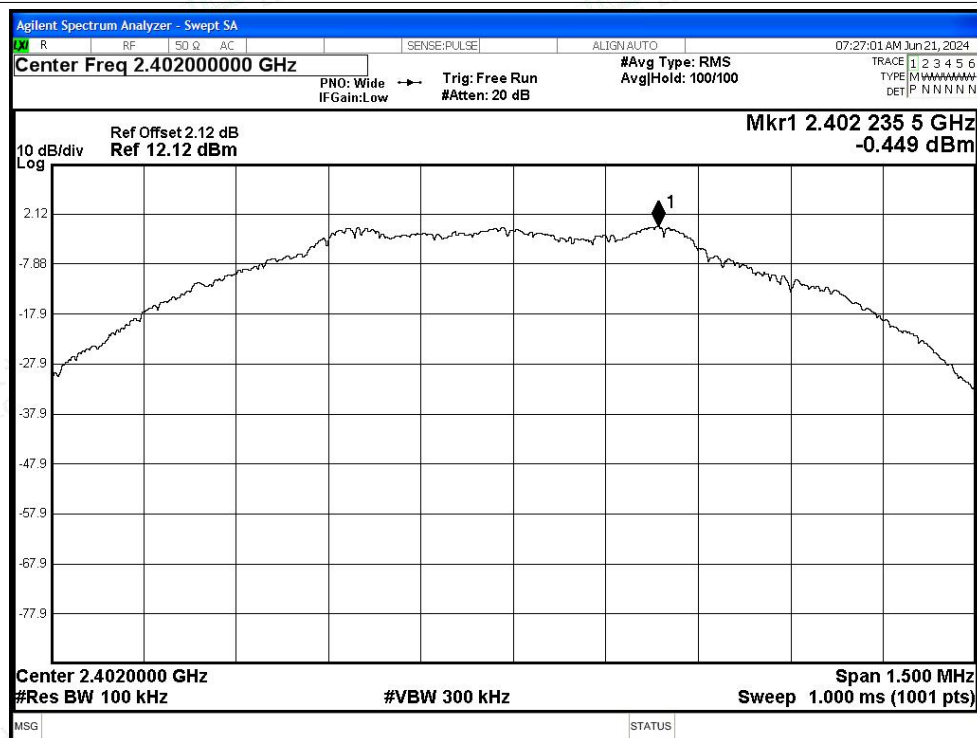


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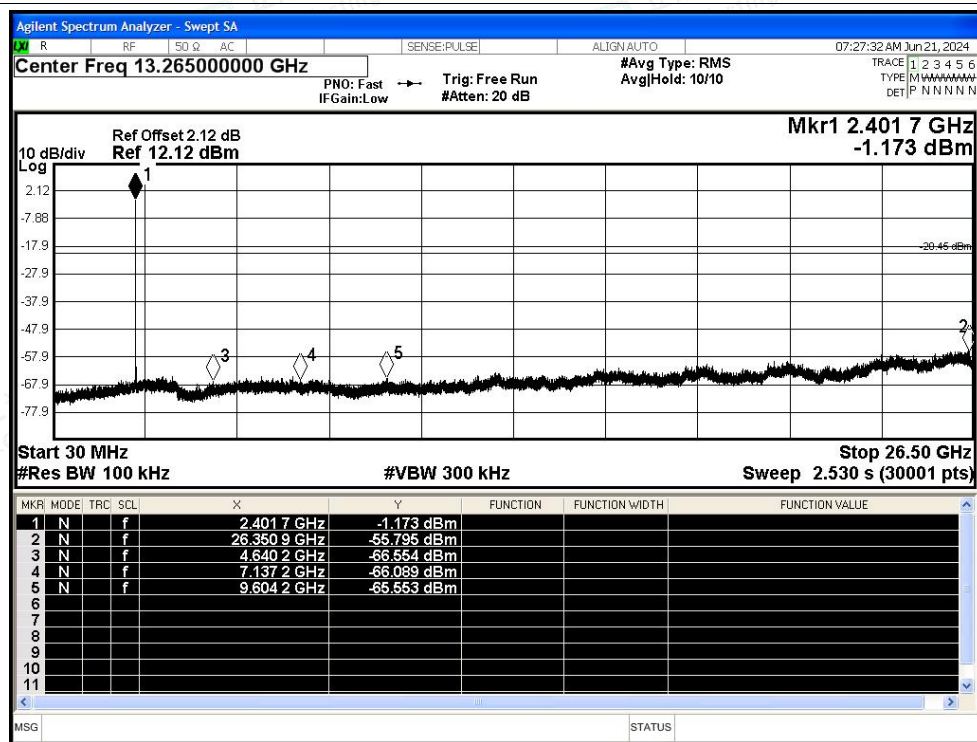


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

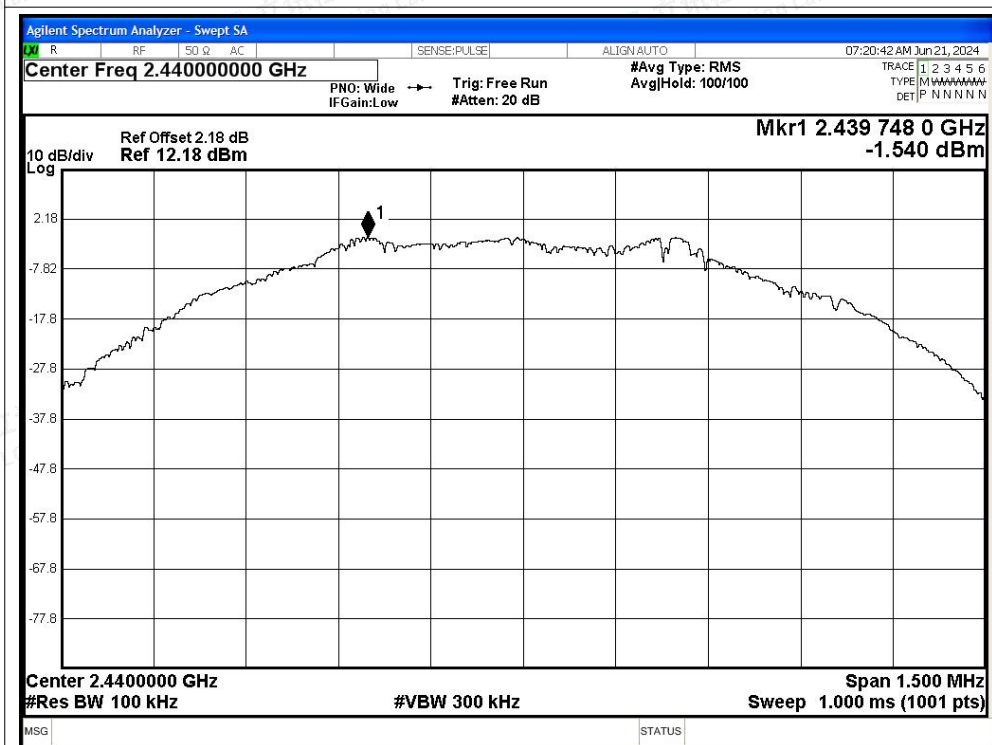
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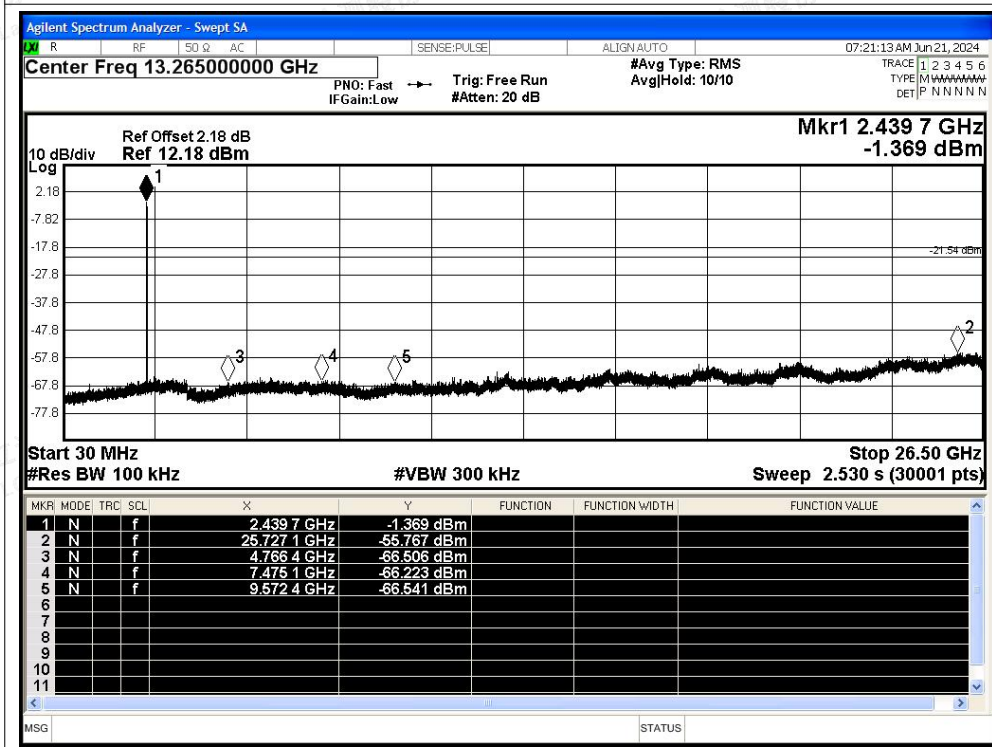
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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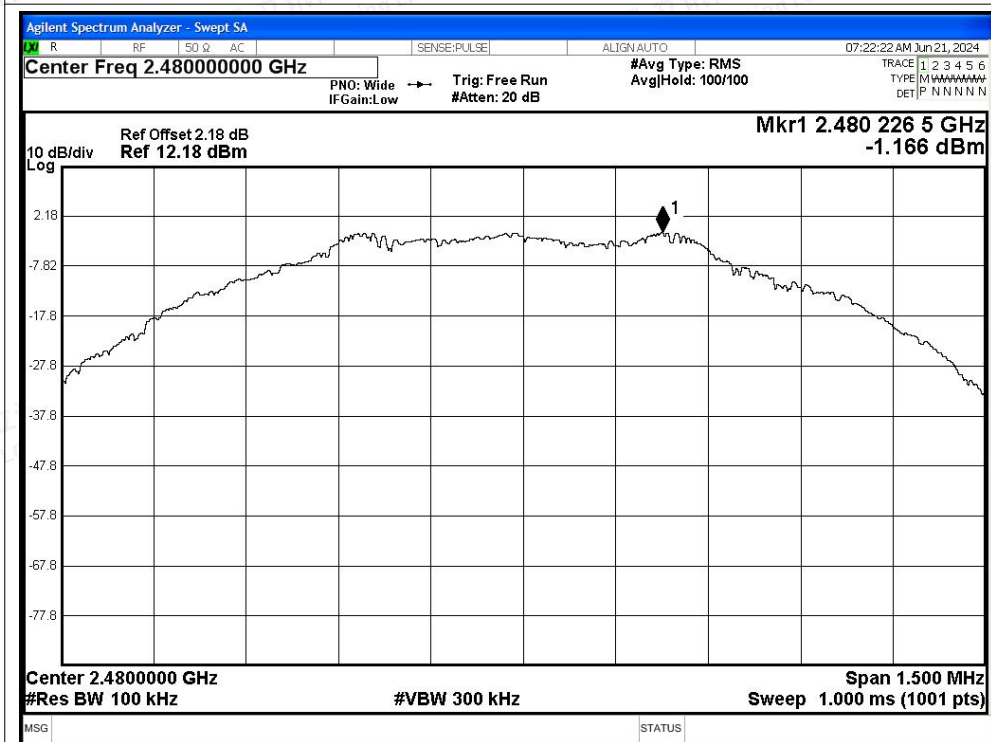
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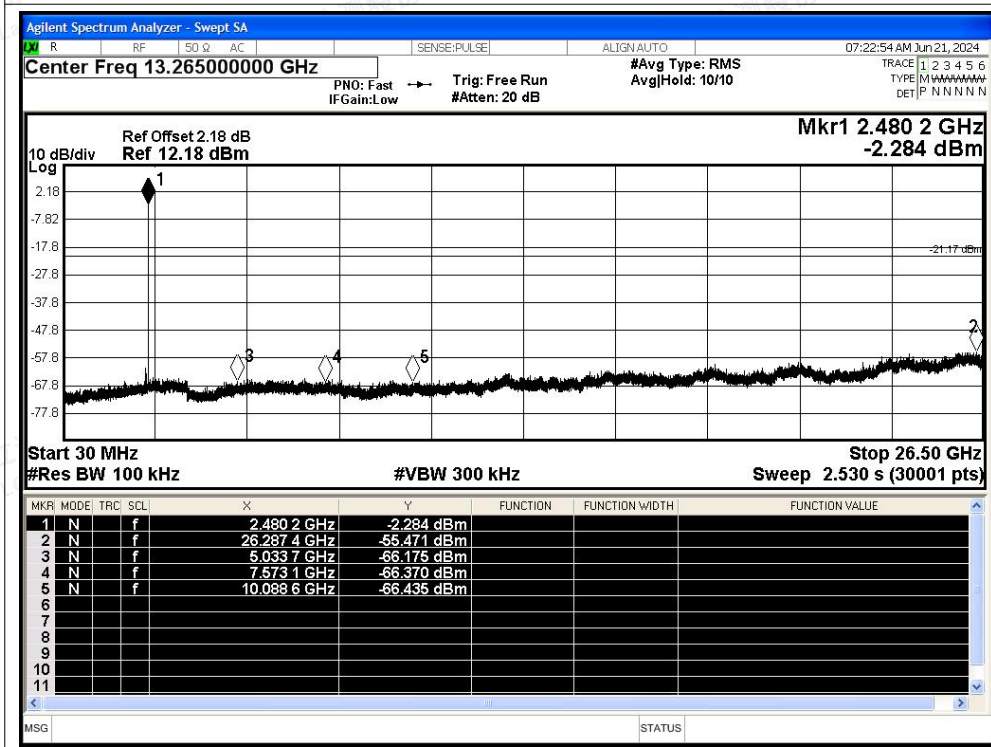
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission





B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.71	2.1	2.59
NVNT	BLE 1M	2440	Ant1	61.56	2.11	2.61
NVNT	BLE 1M	2480	Ant1	61.6	2.1	2.6



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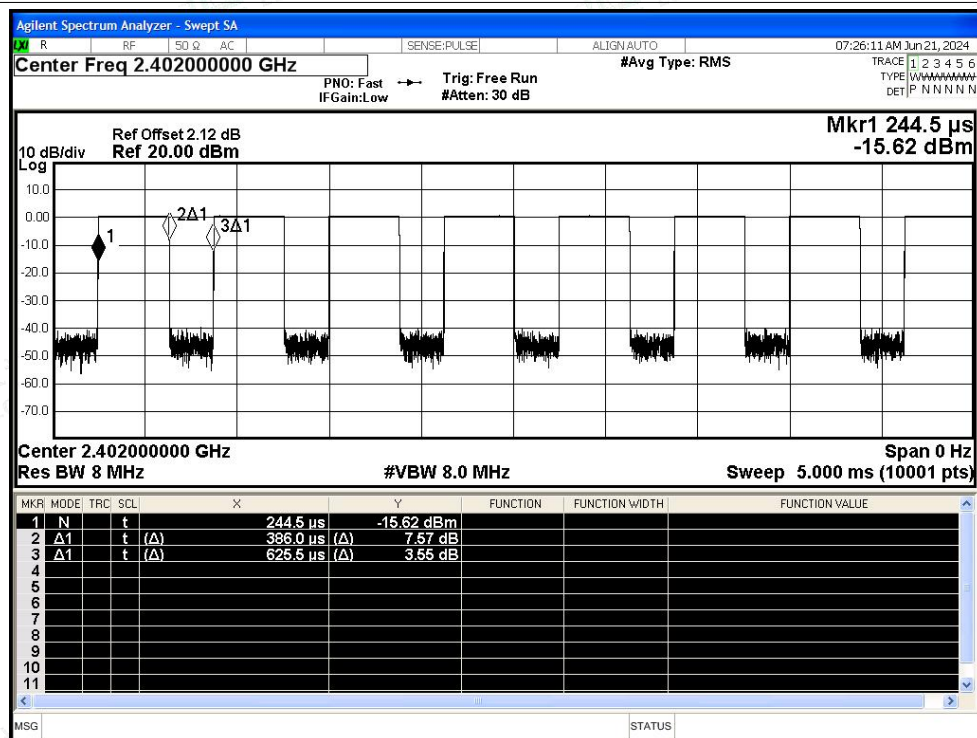
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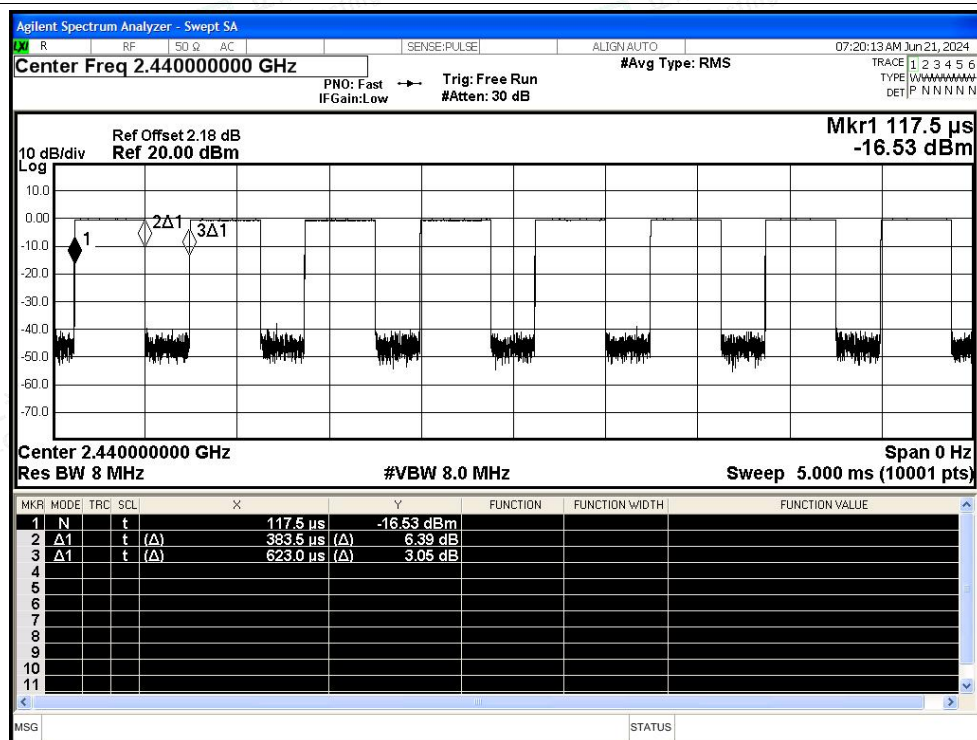


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

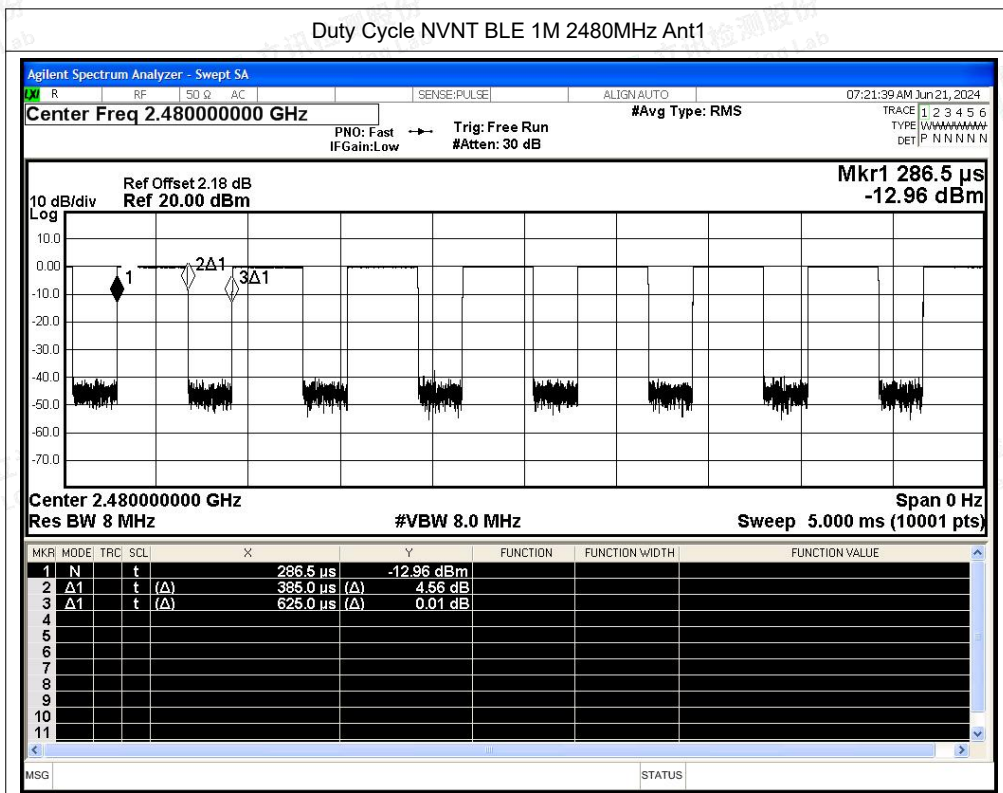


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B.7 Restrict Band

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	-49.13	2.0	-	48.13	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.69	2.0	2.1	38.57	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2367.12	-47.15	2.0	-	50.11	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2381.52	-57.39	2.0	2.1	39.87	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.88	2.0	-	46.38	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-57.91	2.0	2.1	39.35	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-49.67	2.0	-	47.59	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-58.19	2.0	2.1	39.07	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.632	-37.42	2.0	-	59.84	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.8	-55.43	2.0	2.1	41.83	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-47.96	2.0	-	49.30	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.02	2.0	2.1	39.24	Average	54	Pass



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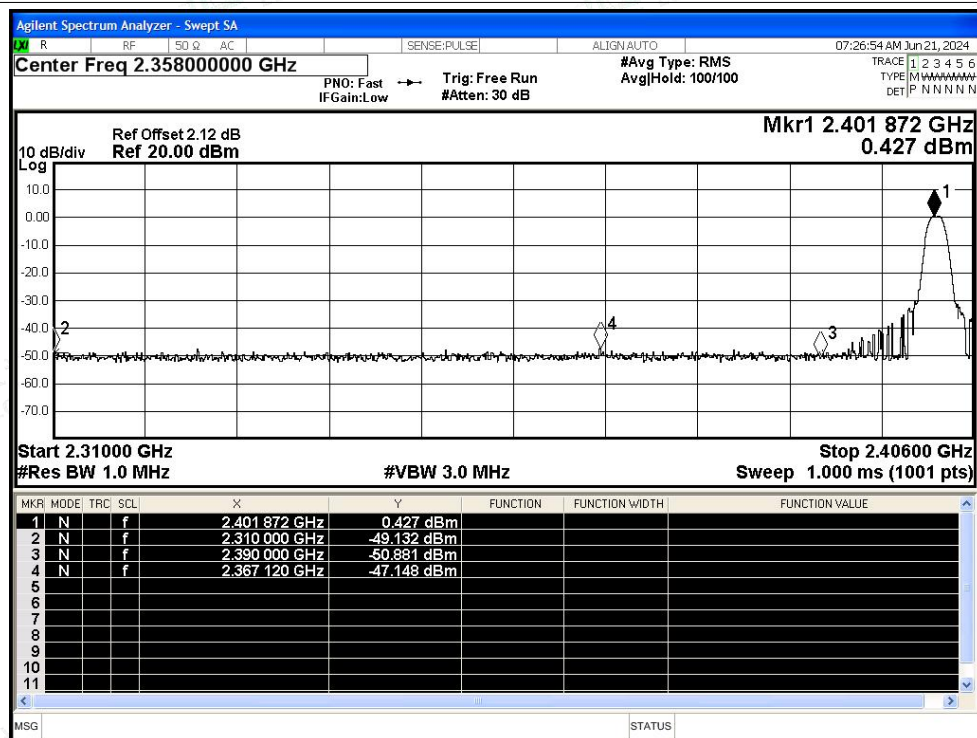
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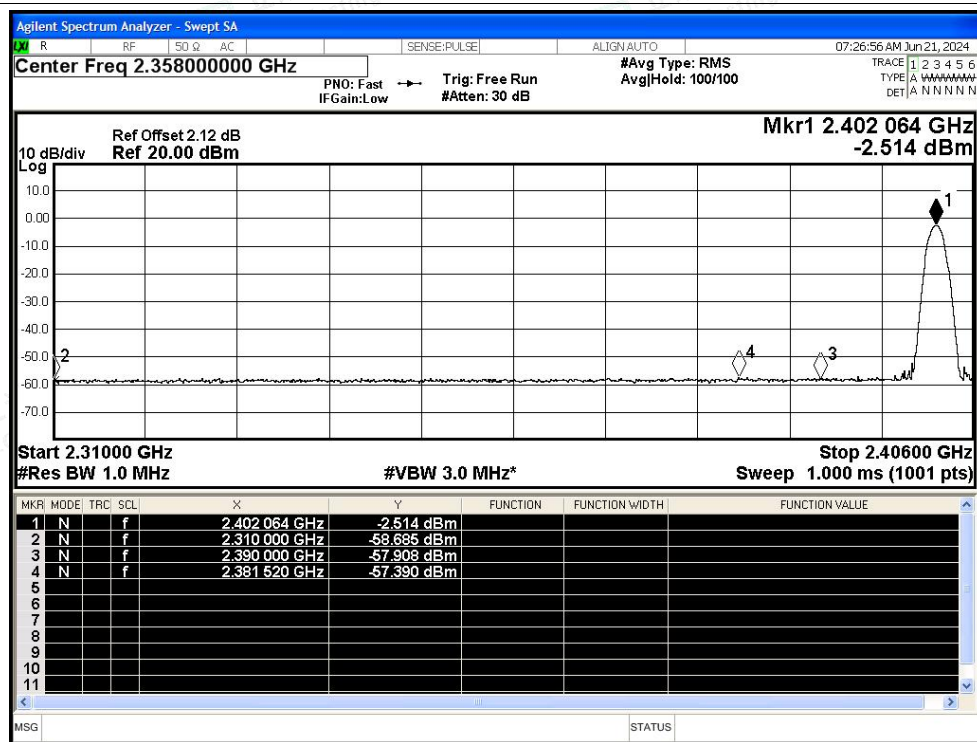


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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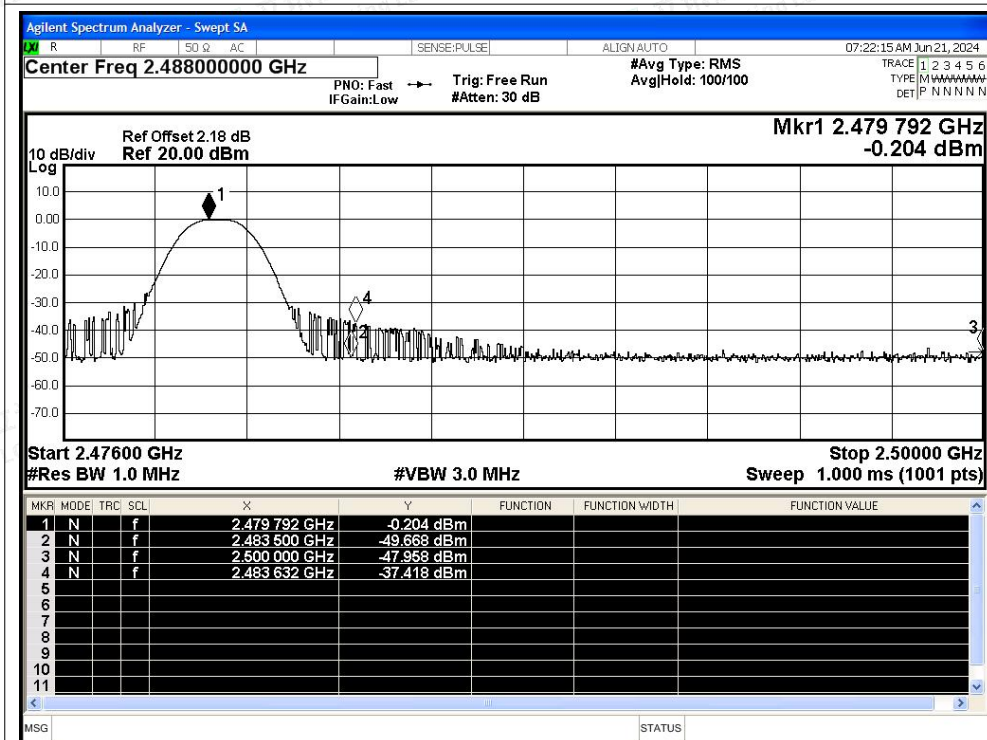
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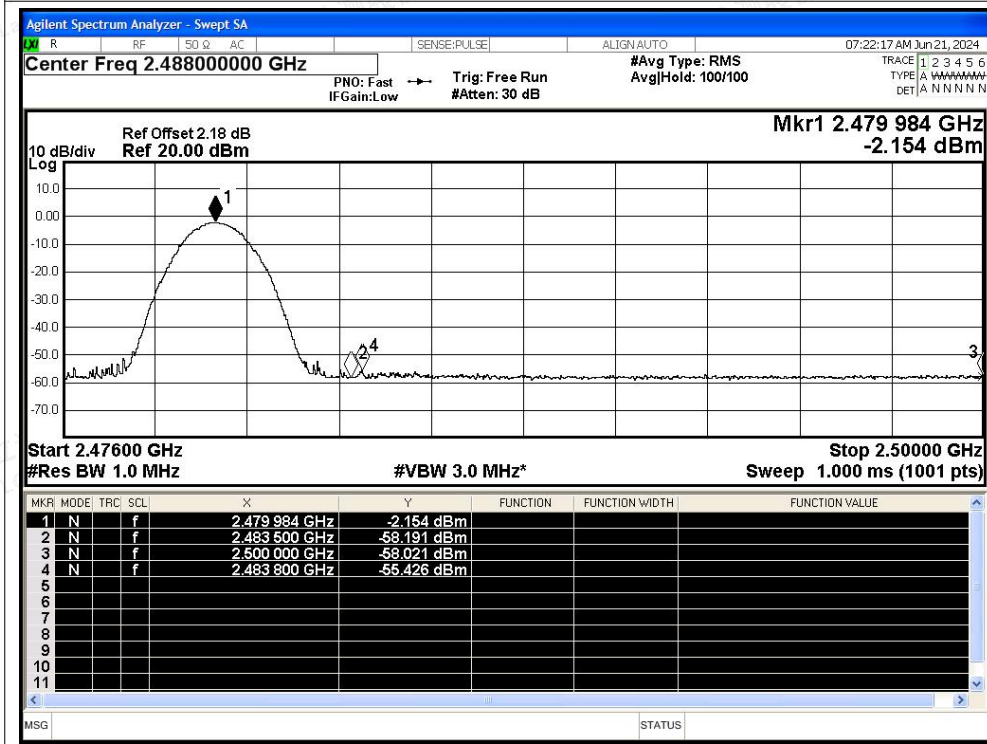
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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