



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Portable power station

Test Model: BP2000E PRO

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Taylor Hu



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A.1 -6dB Bandwidth

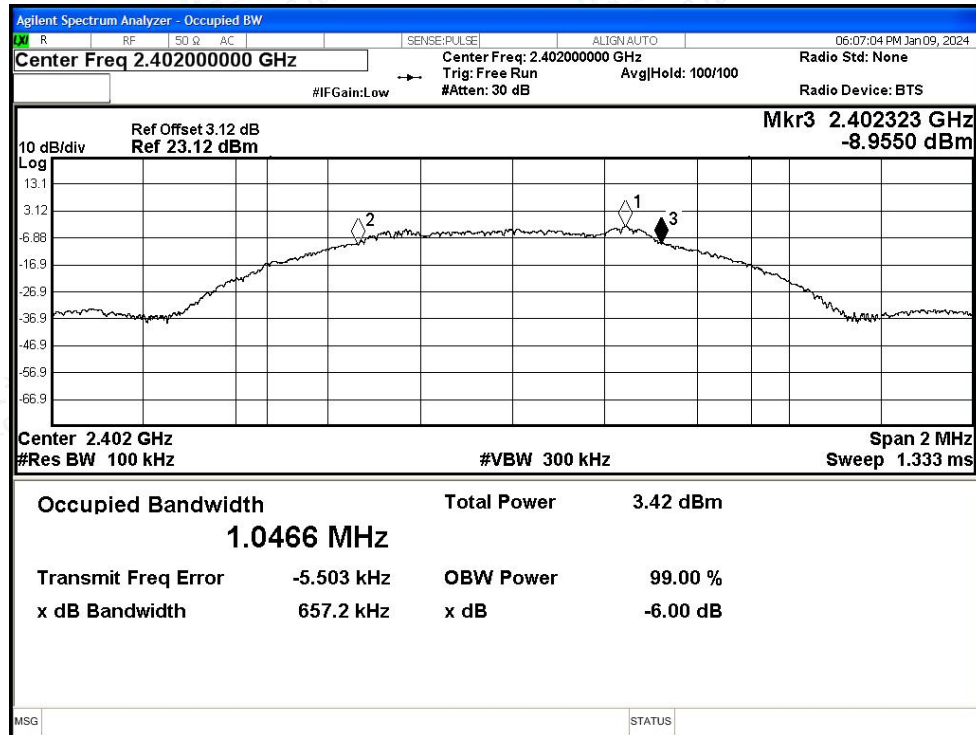
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.657	>=0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.666	>=0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.649	>=0.5	Pass



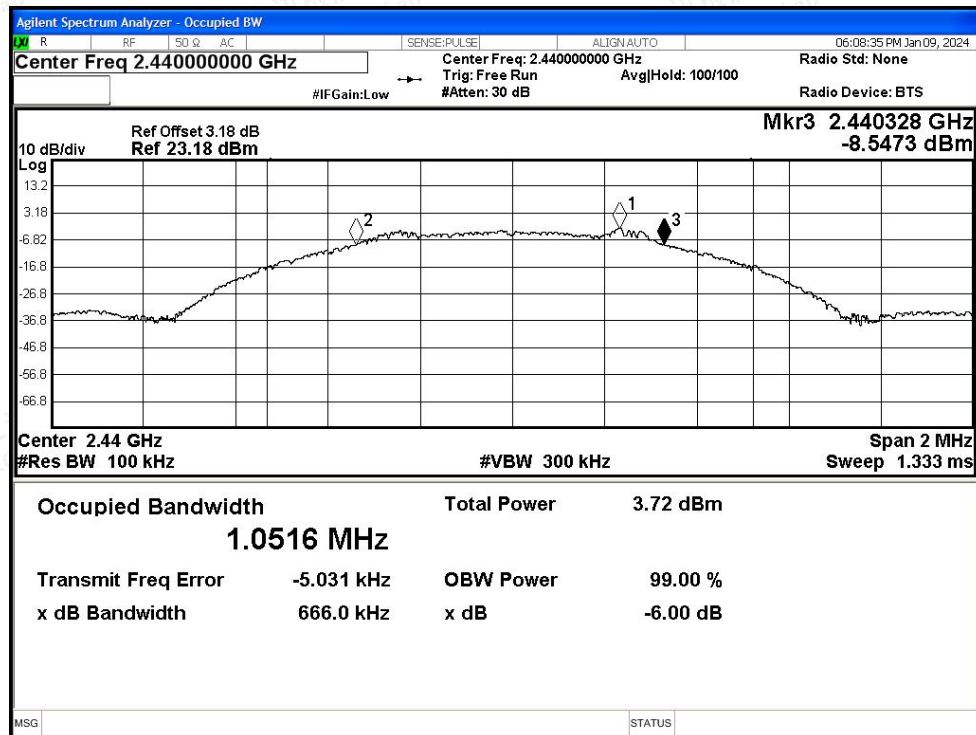


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

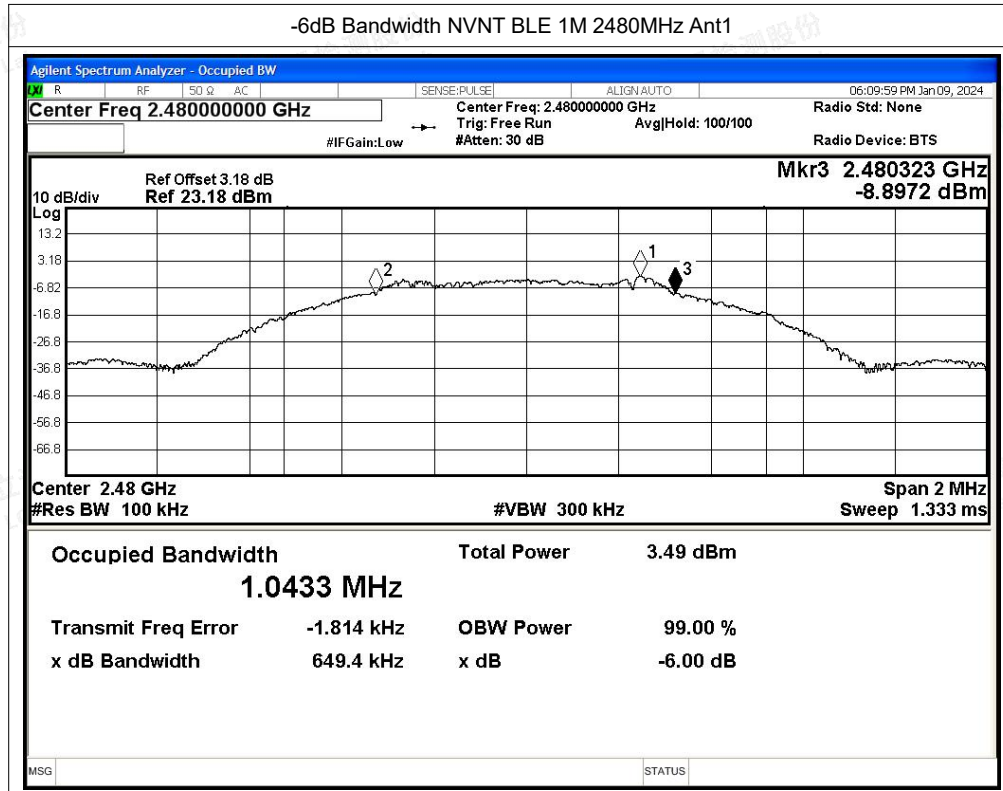


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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-2.5	30	Pass
NVNT	BLE 1M	2440	Ant1	-2.17	30	Pass
NVNT	BLE 1M	2480	Ant1	-2.37	30	Pass



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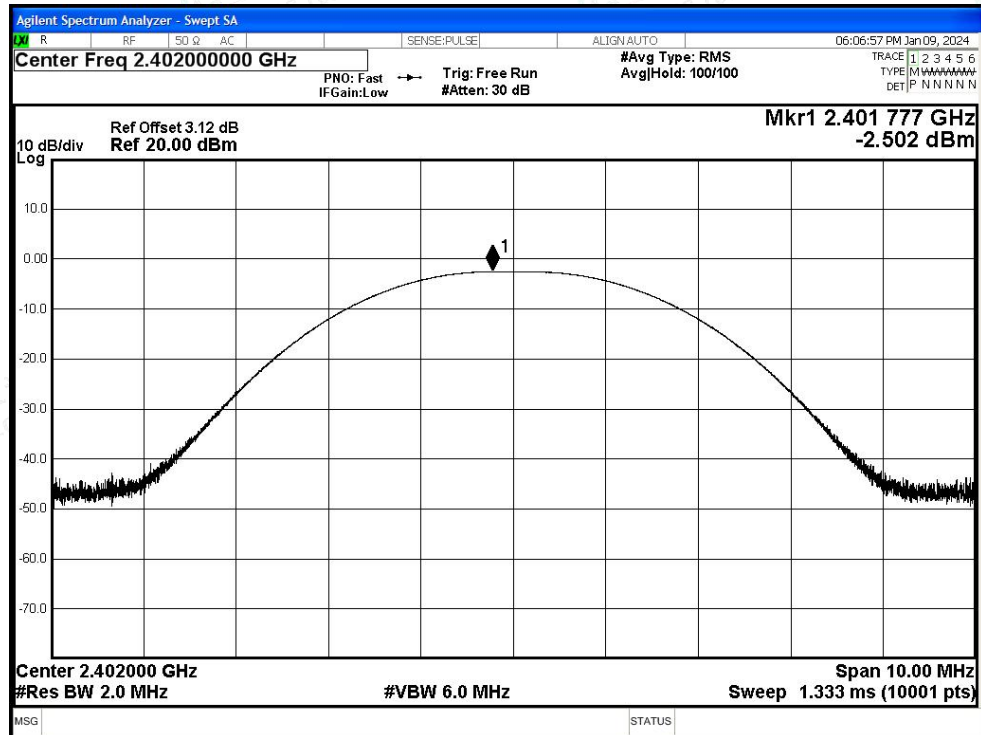
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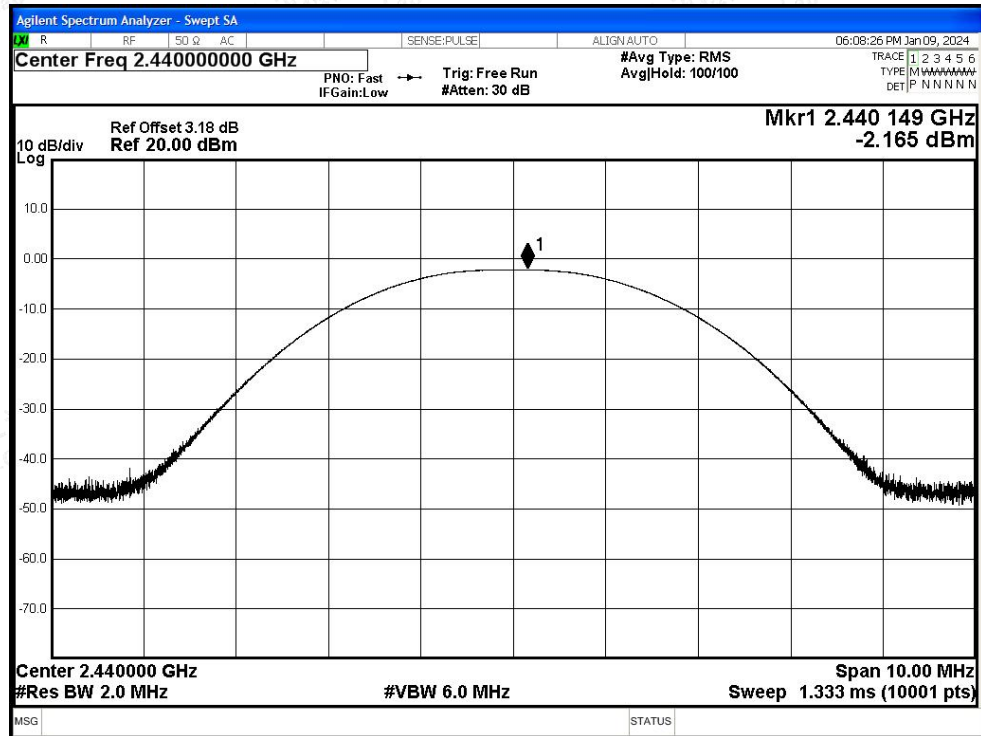


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

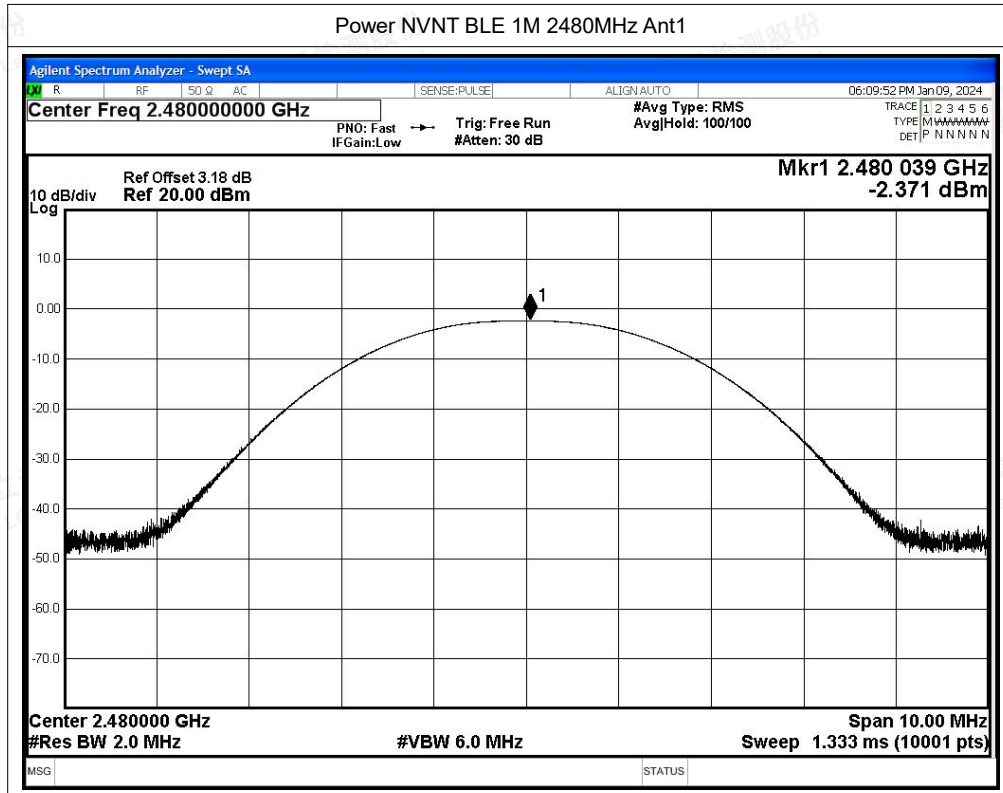


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A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-18.79	8	Pass
NVNT	BLE 1M	2440	Ant1	-18.89	8	Pass
NVNT	BLE 1M	2480	Ant1	-18.6	8	Pass



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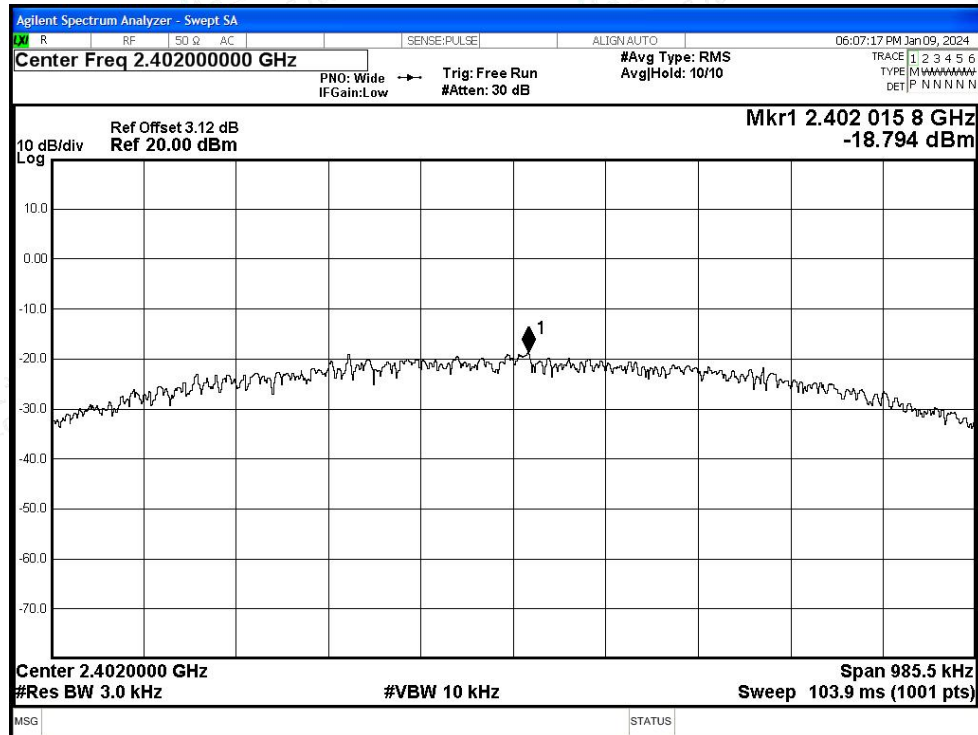
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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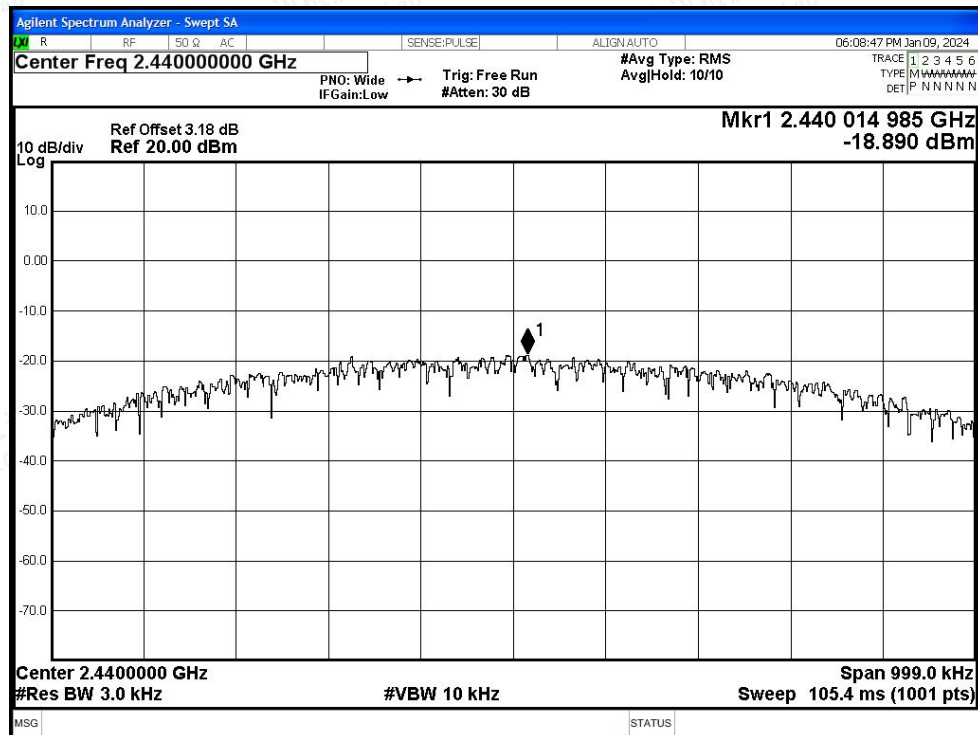


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

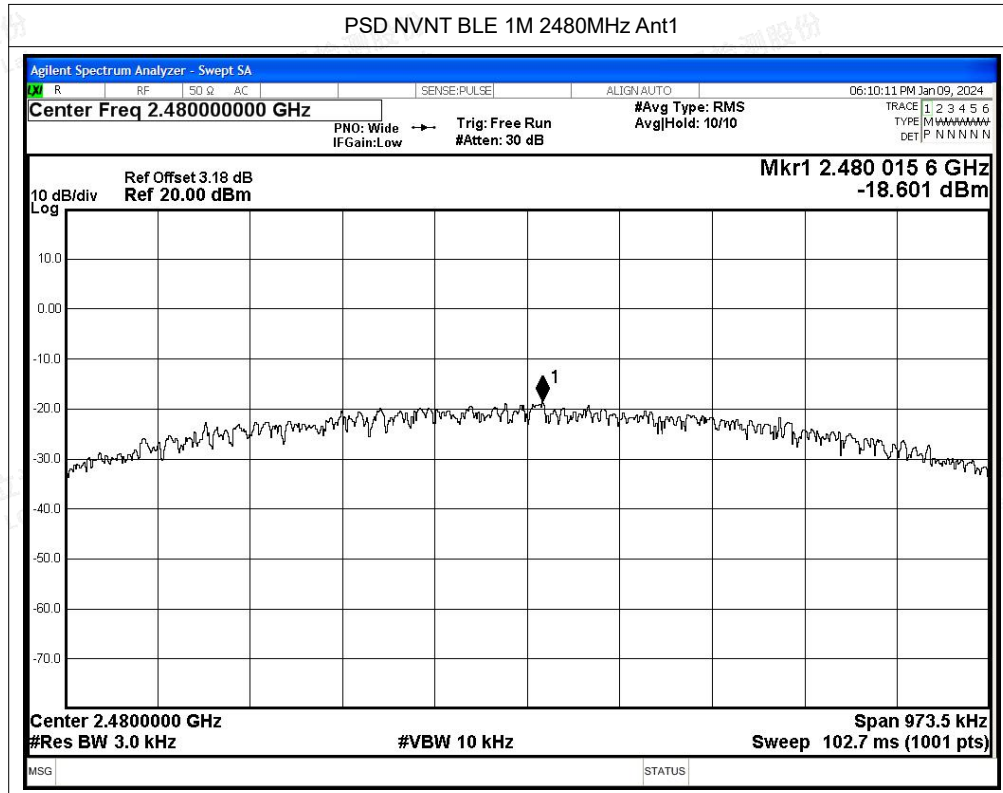


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A.4 Band Edge

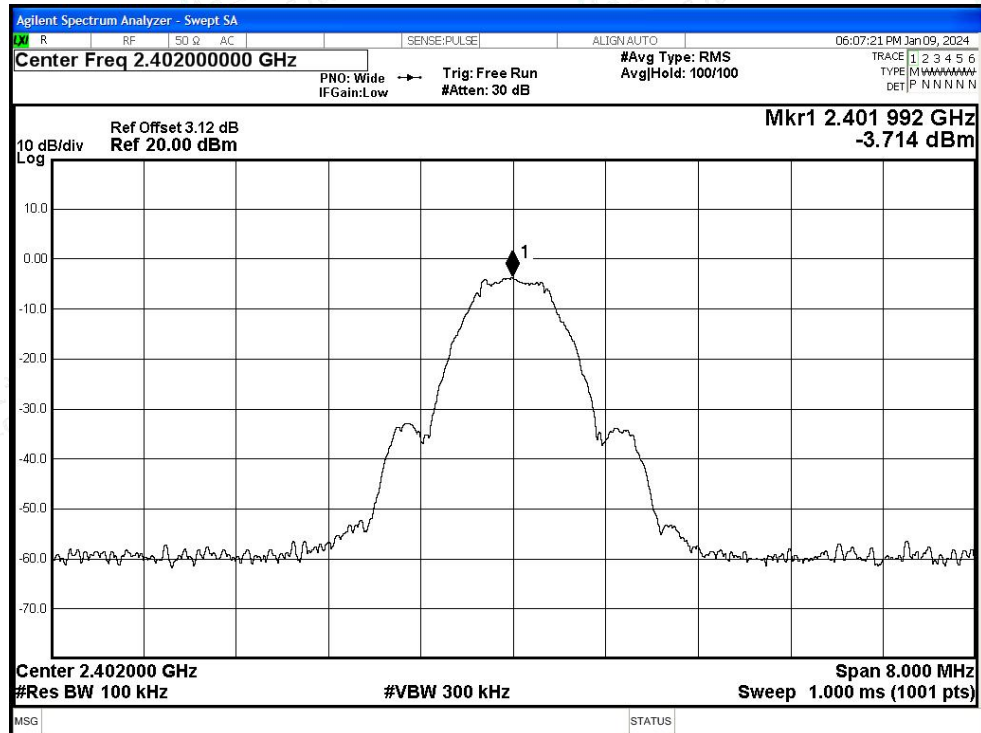
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.24	-20	Pass
NVNT	BLE 1M	2480	Ant1	-52.09	-20	Pass



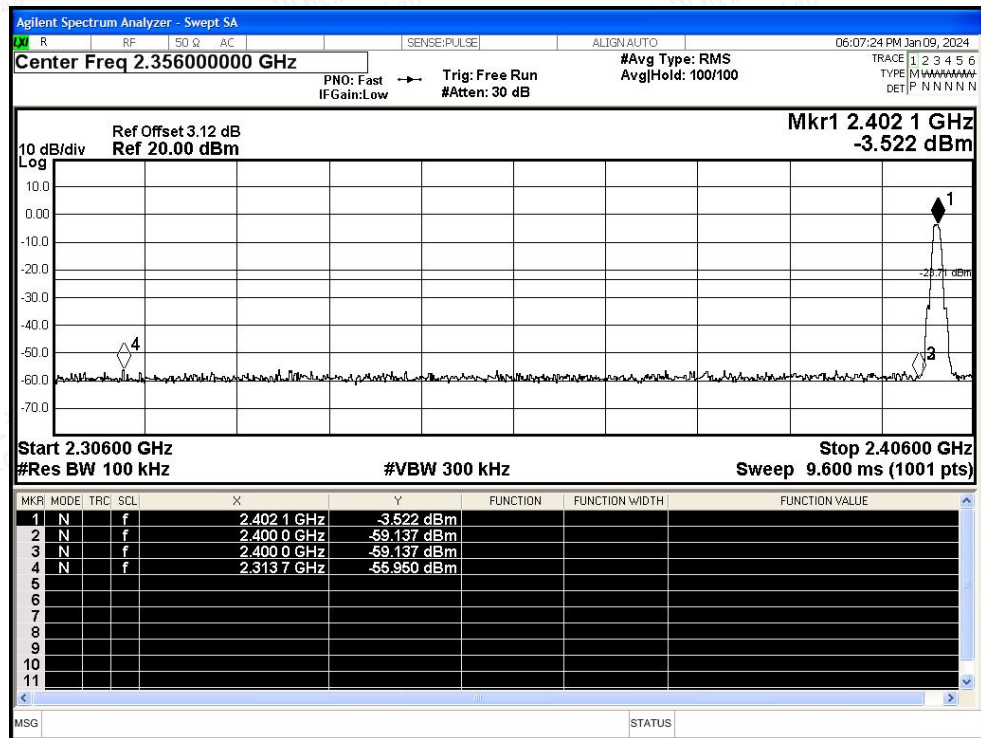


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

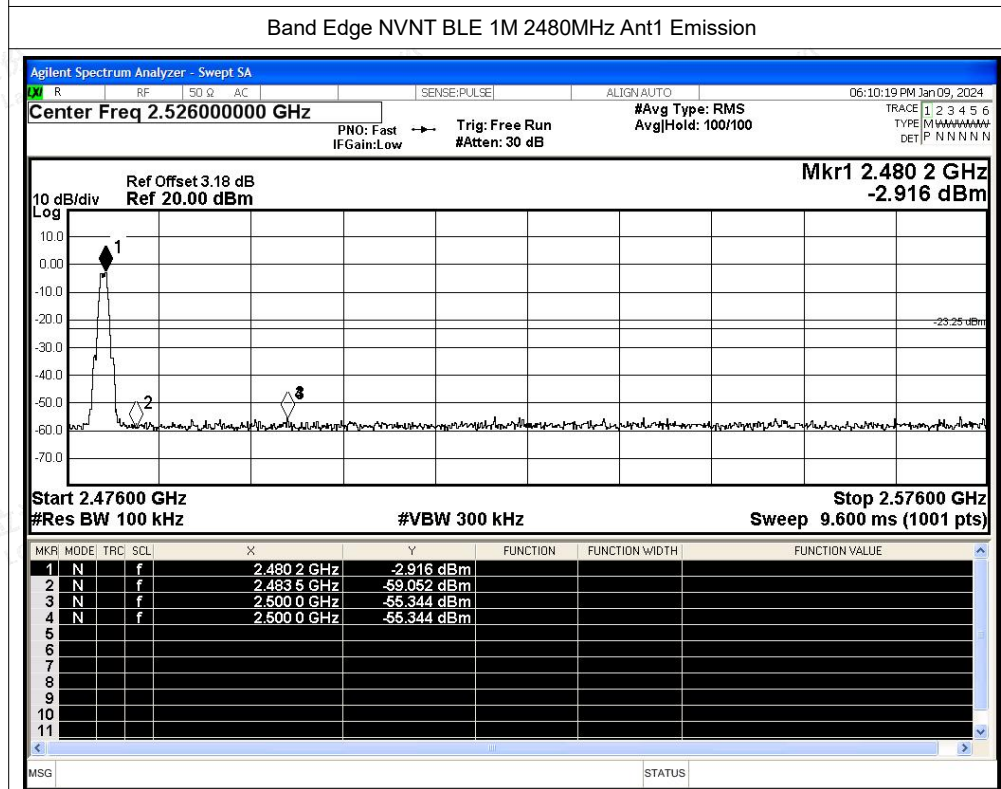
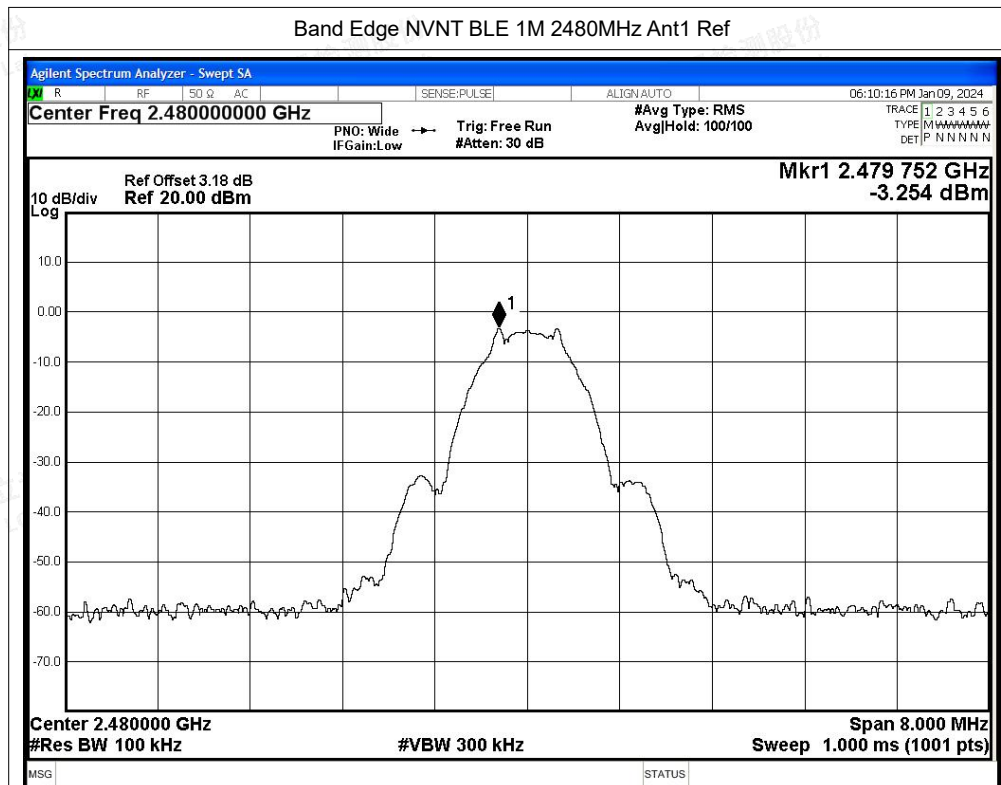


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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-50.99	-20	Pass
NVNT	BLE 1M	2440	Ant1	-51.76	-20	Pass
NVNT	BLE 1M	2480	Ant1	-51.48	-20	Pass



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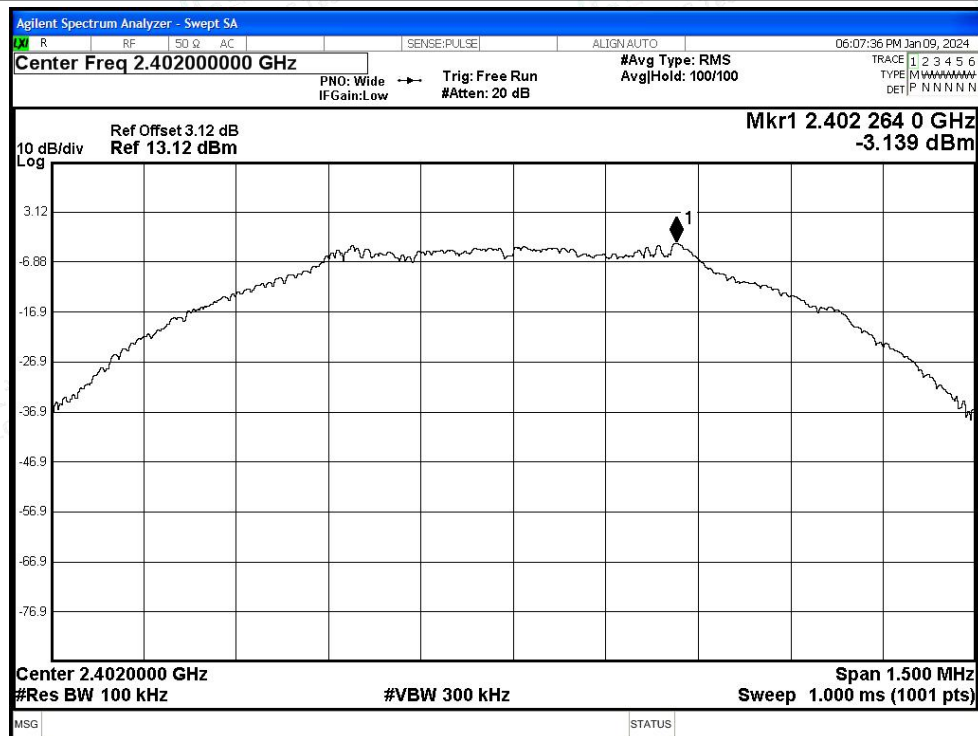
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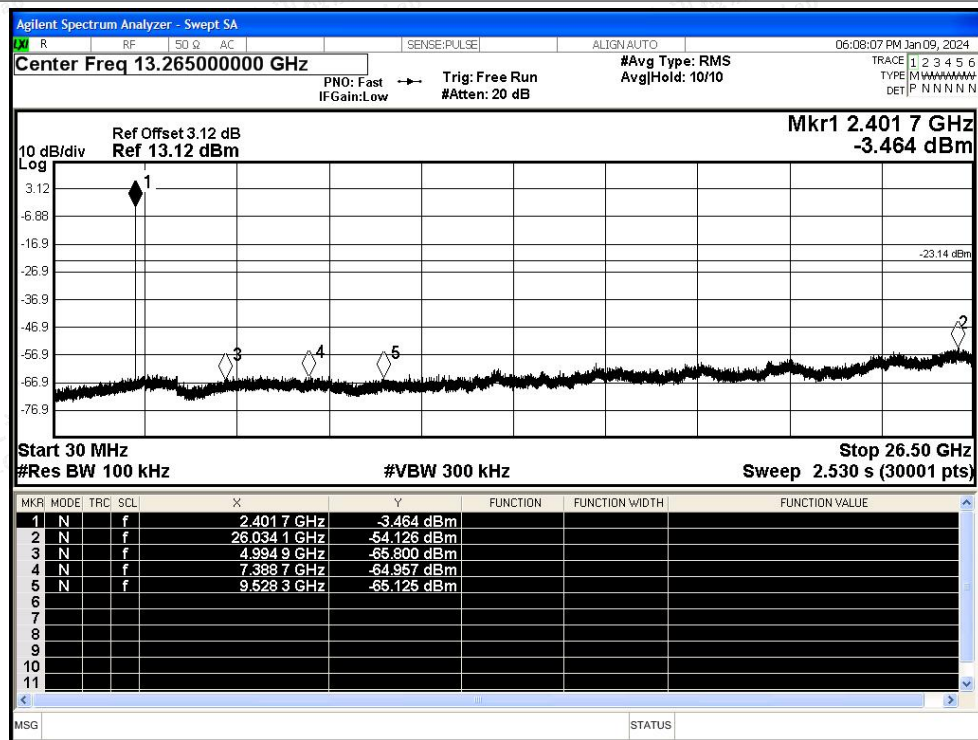


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

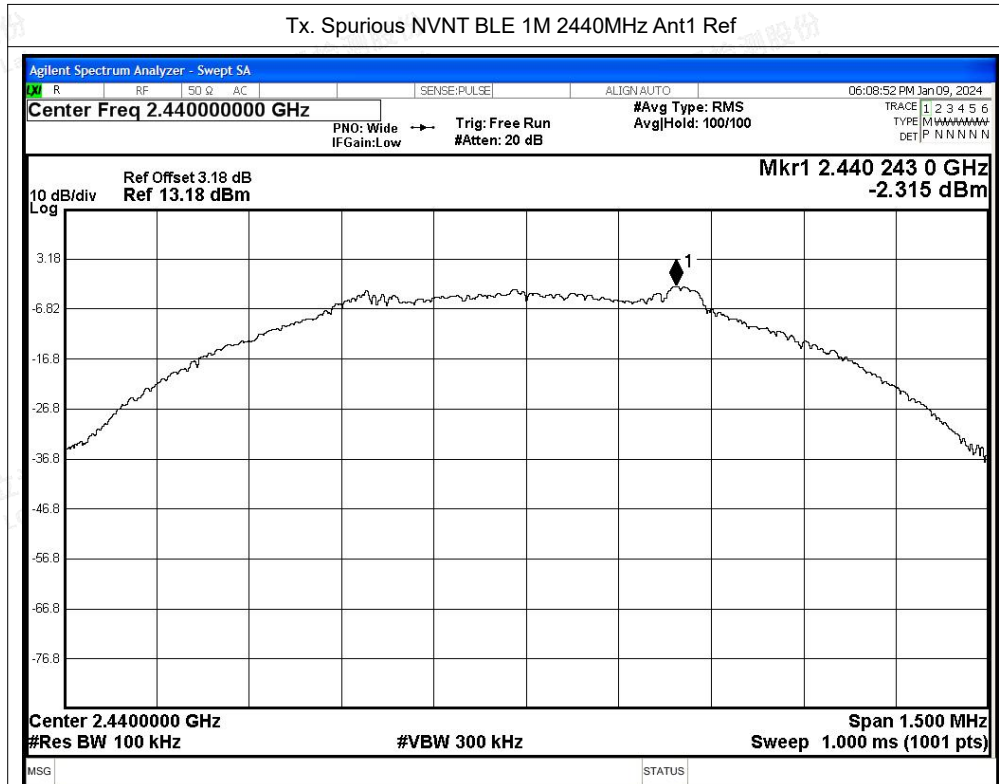
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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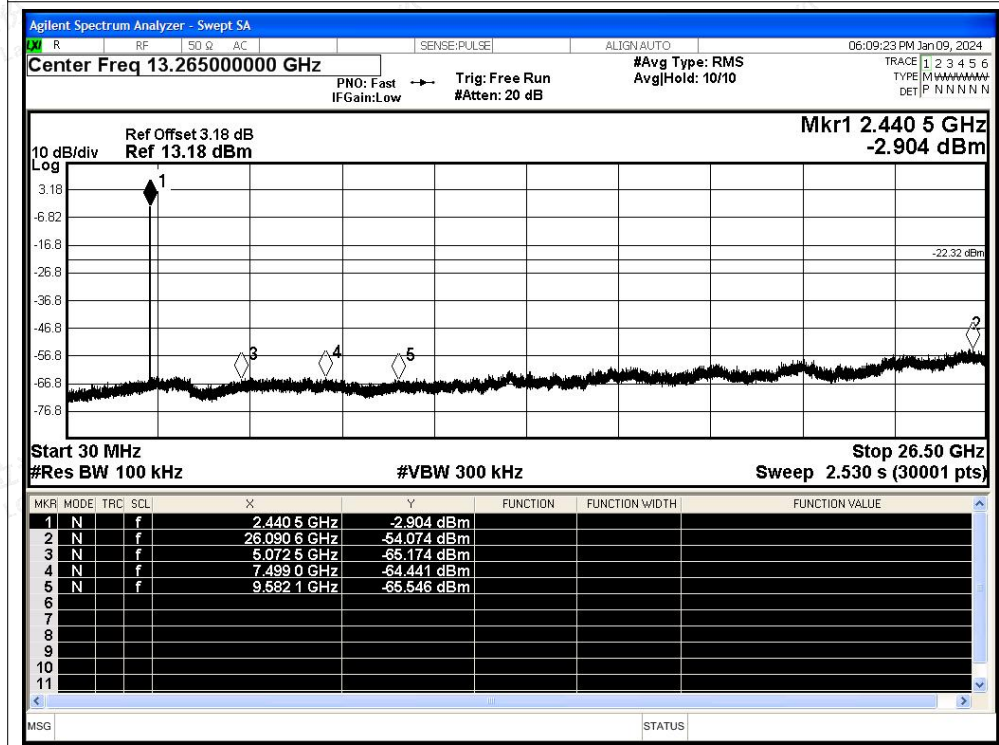
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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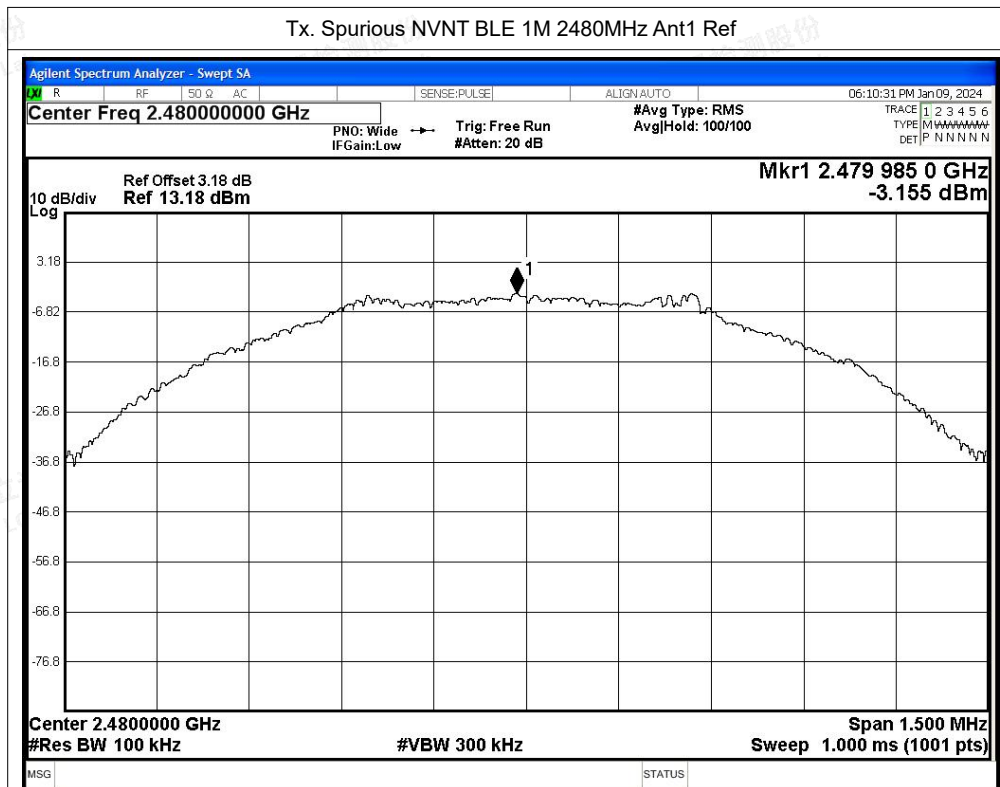
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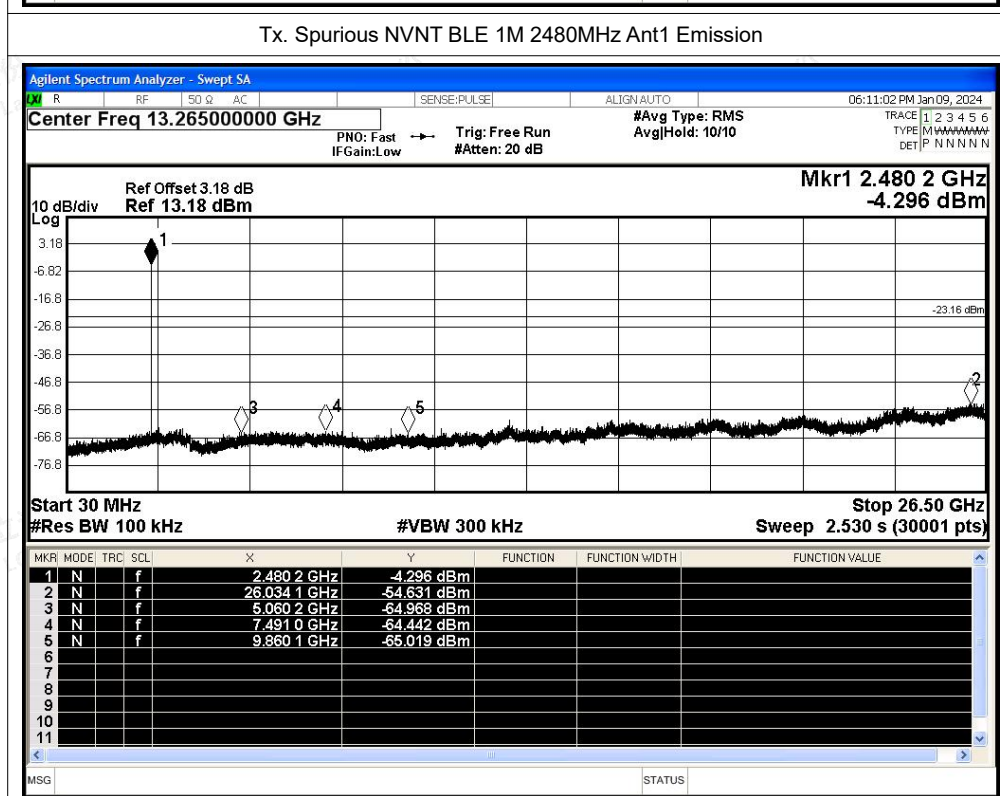
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	85.12	0.7	0.47
NVNT	BLE 1M	2440	Ant1	85.1	0.7	0.47
NVNT	BLE 1M	2480	Ant1	85.1	0.7	0.47



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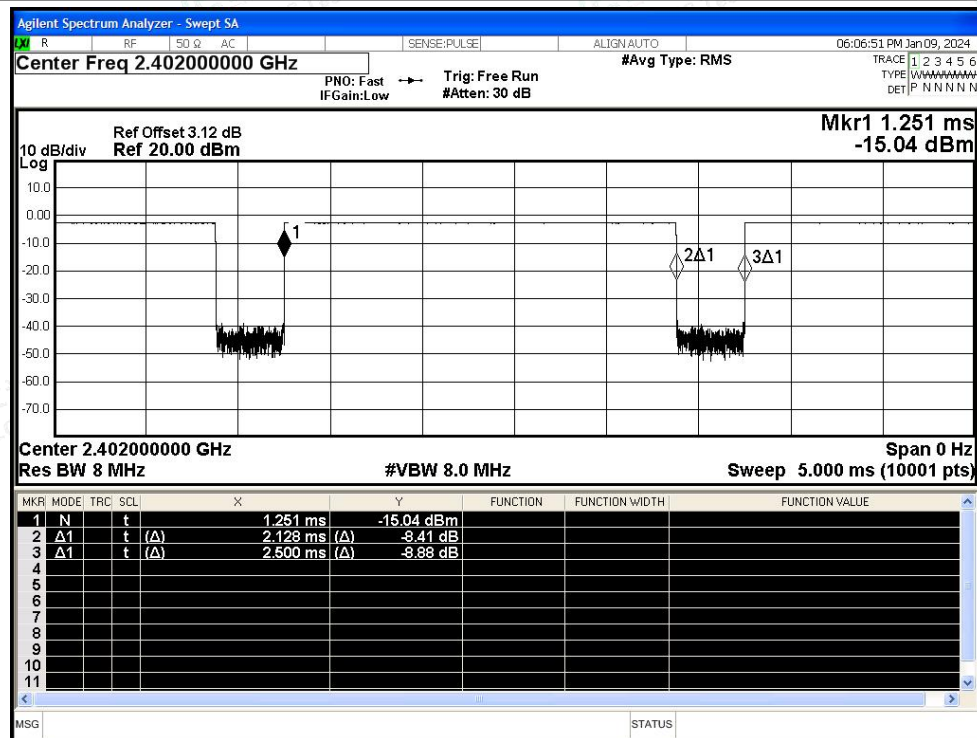
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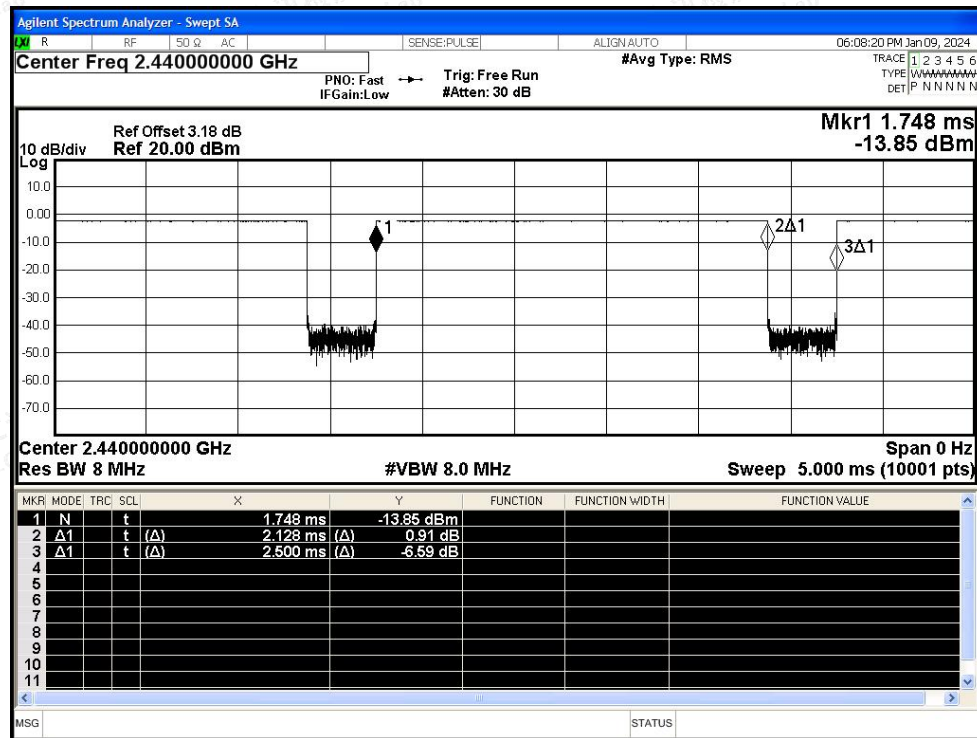


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

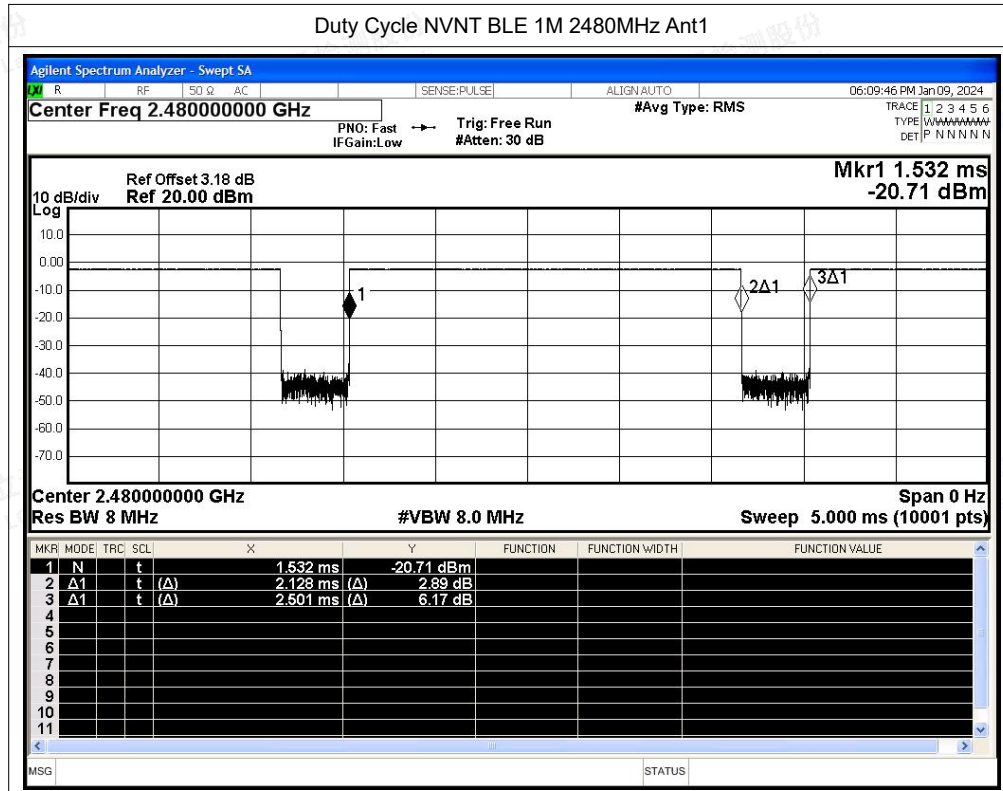


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A.7 Restrict Band

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	-49.66	2	-	47.6	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-57.94	2	0.7	40.02	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2334.672	-46.3	2	-	50.96	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2387.568	-56.53	2	0.7	41.43	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-48.94	2	-	48.32	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-57.02	2	0.7	40.94	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-49.57	2	-	47.69	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-56.65	2	0.7	41.31	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2489.008	-46.22	2	-	51.04	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2486.944	-56.2	2	0.7	41.76	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.06	2	-	48.2	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-57.17	2	0.7	40.79	Average	54	Pass



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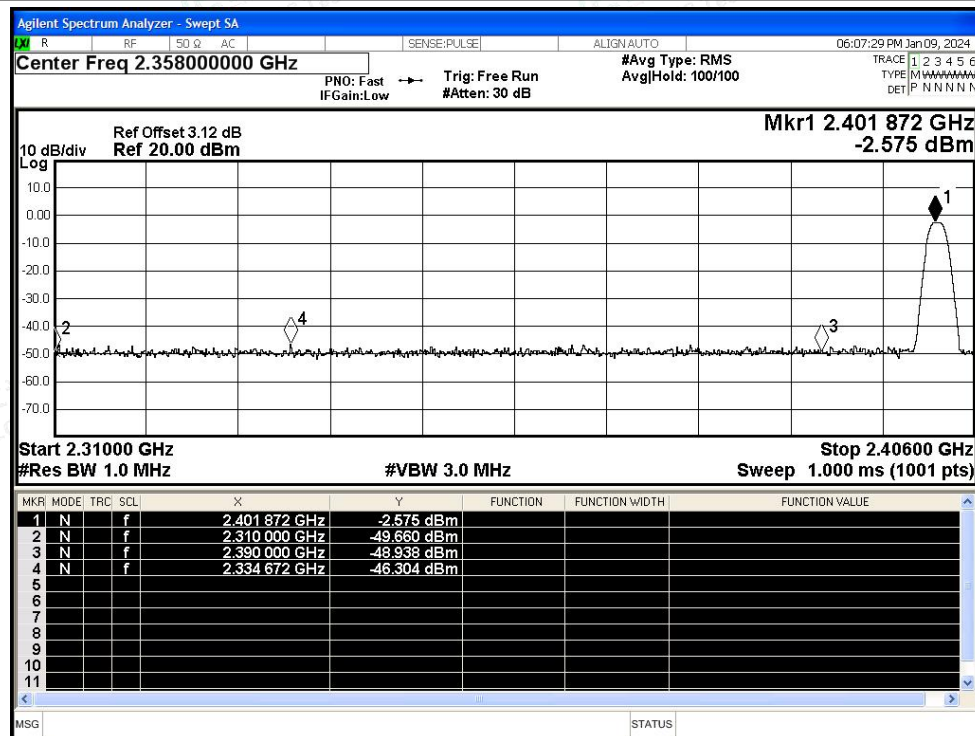
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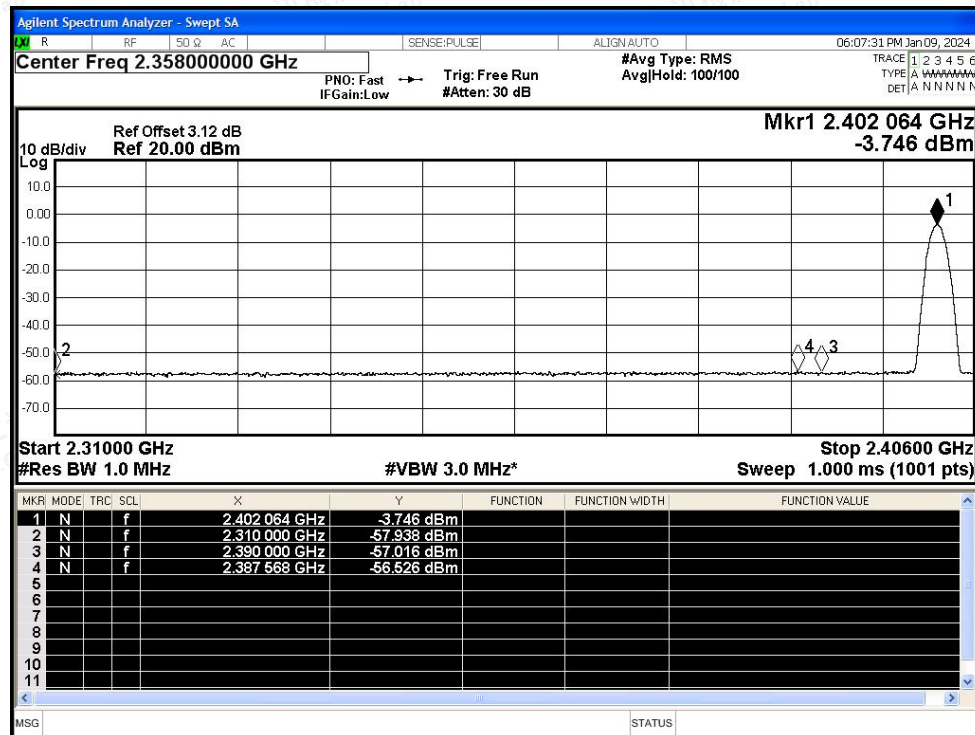


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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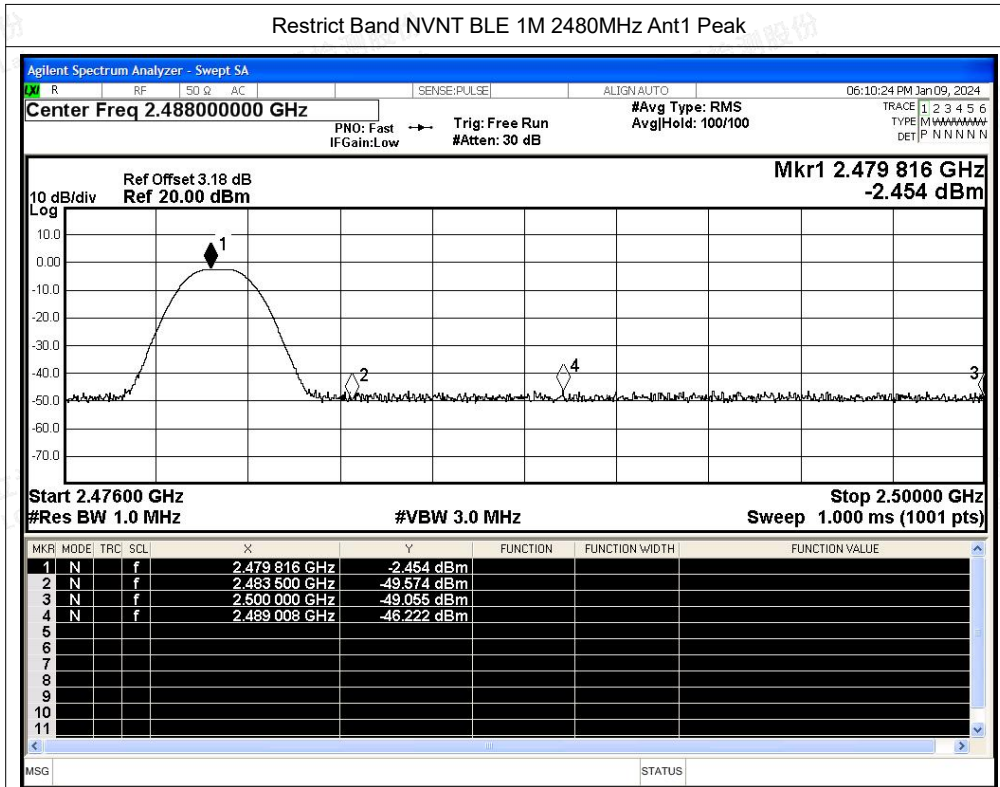
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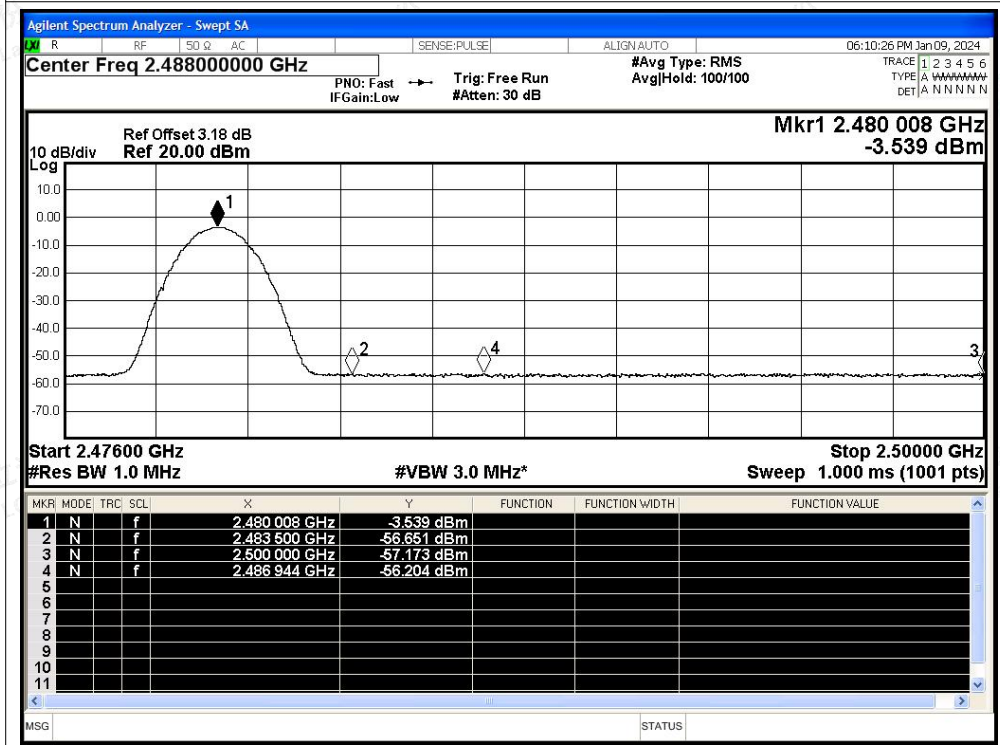
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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