



Appendix B

RF Test Data for BT LE(Conducted Measurement)

Product Name: Starry Sky Lamp

Test Model: N12

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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B.1 -6dB Bandwidth

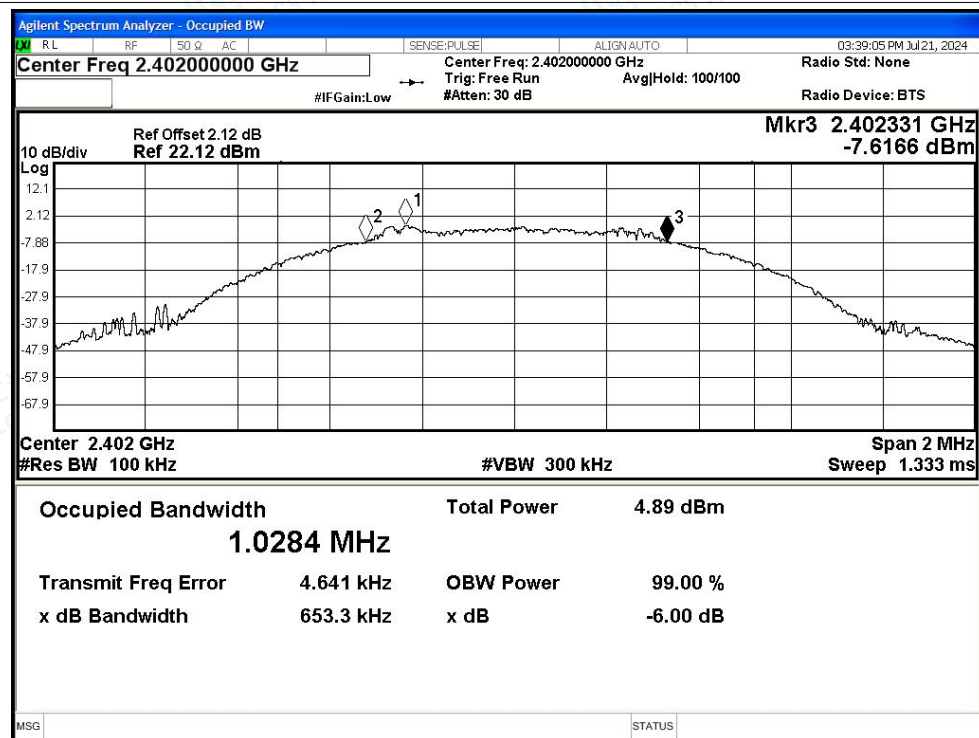
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.653	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.657	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.653	≥ 0.5	Pass



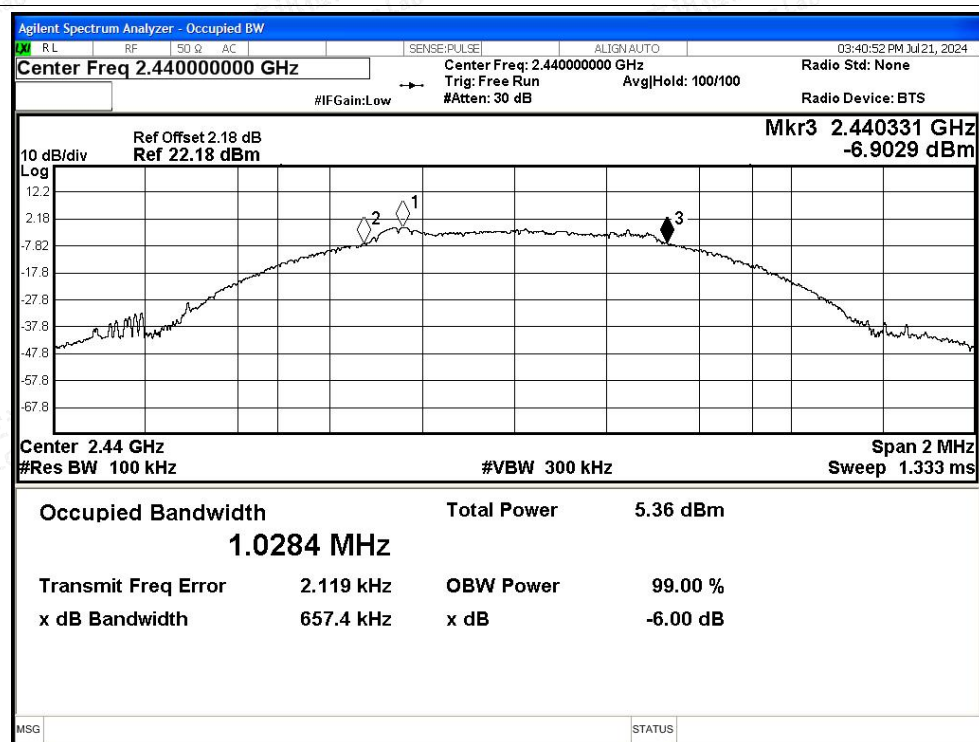


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

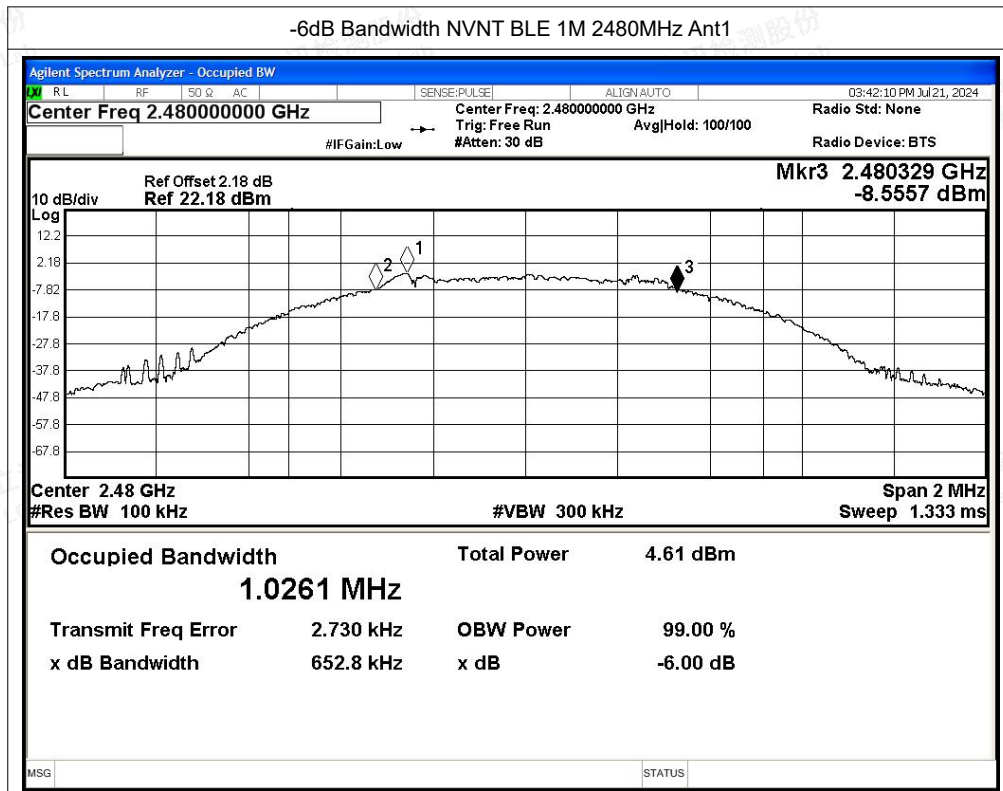


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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.68	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.36	30	Pass
NVNT	BLE 1M	2480	Ant1	-1.02	30	Pass

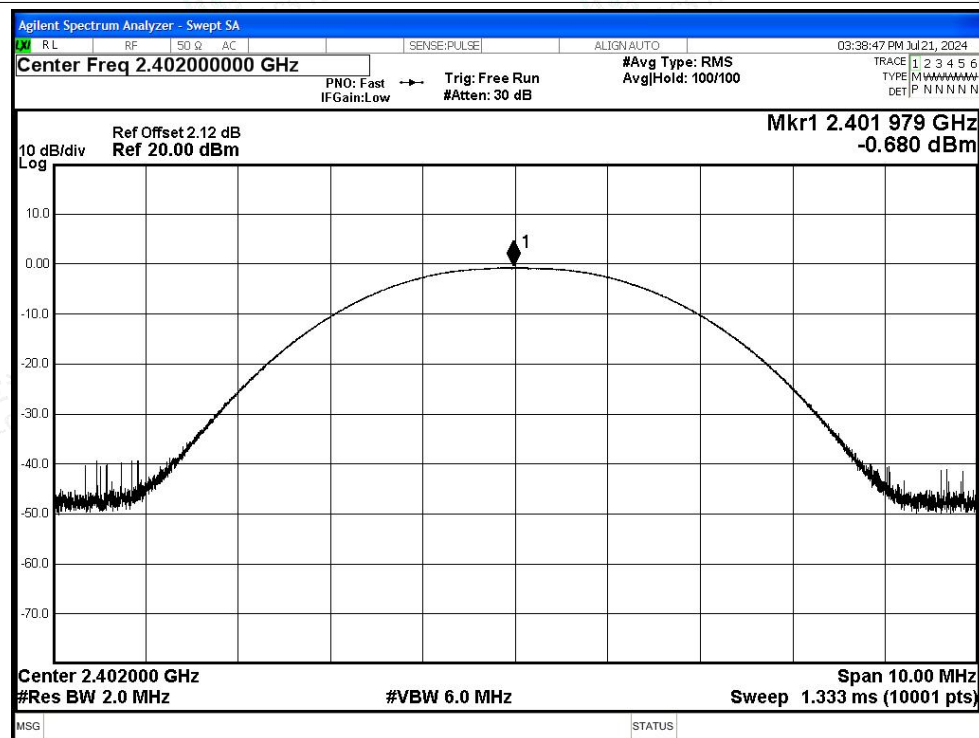


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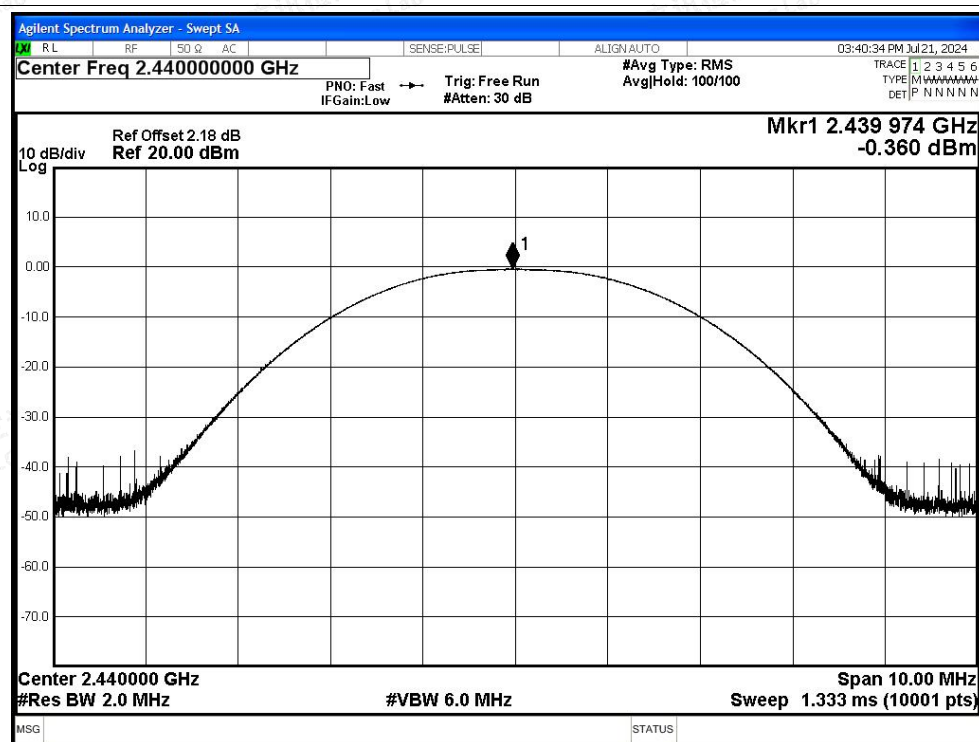


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

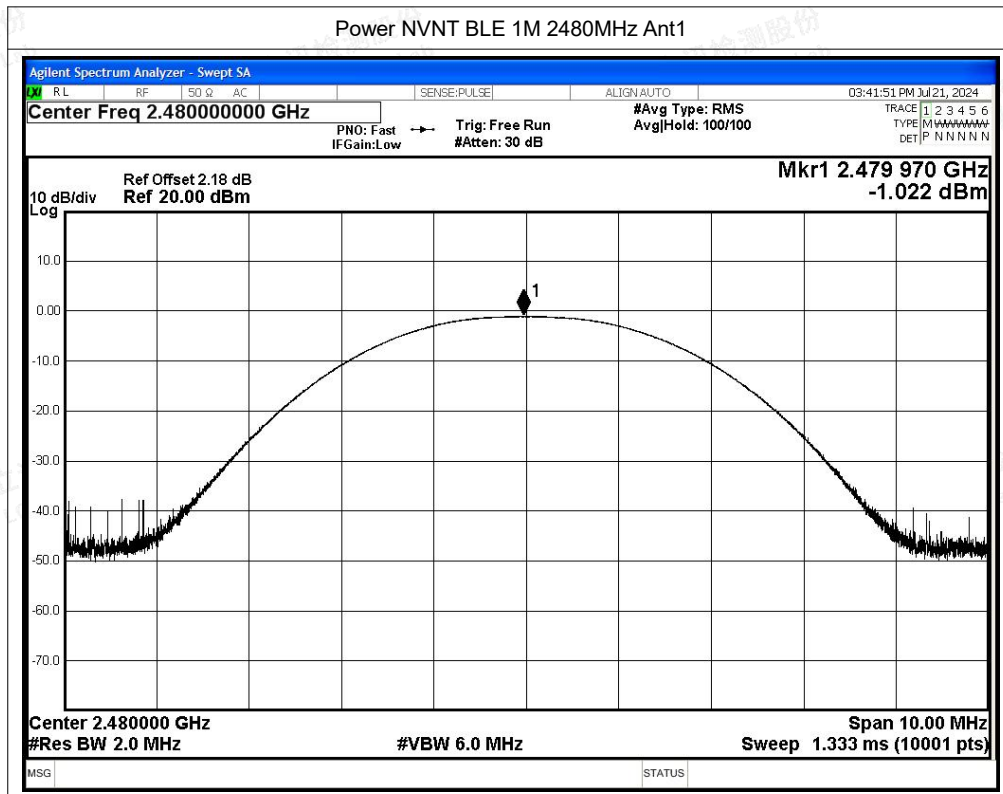


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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-17.5	8	Pass
NVNT	BLE 1M	2440	Ant1	-17.23	8	Pass
NVNT	BLE 1M	2480	Ant1	-18.11	8	Pass

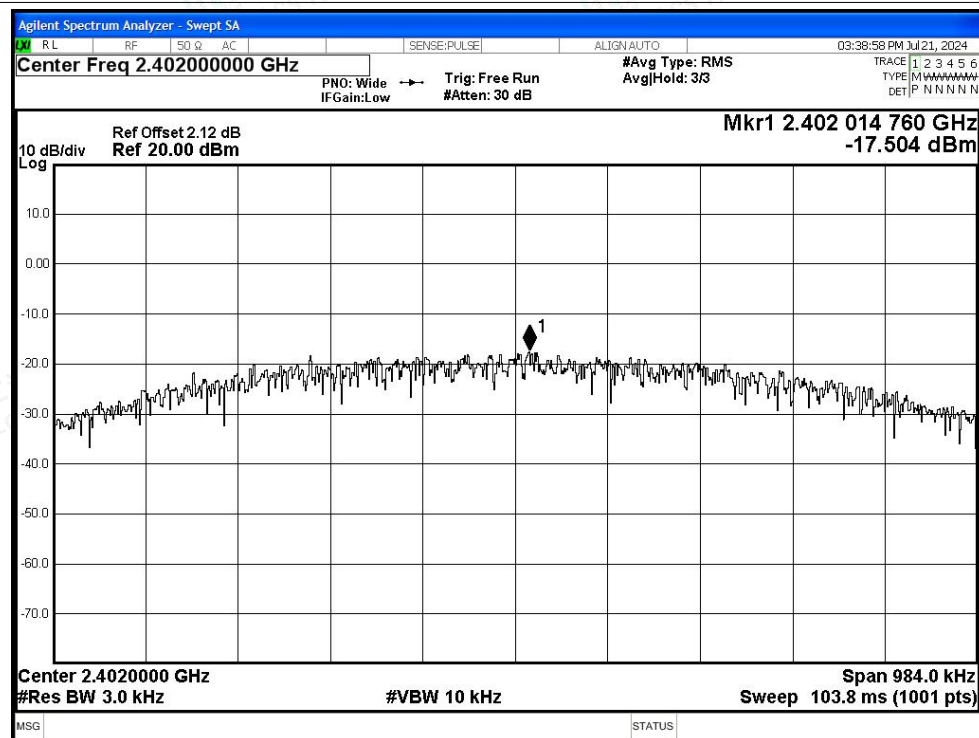


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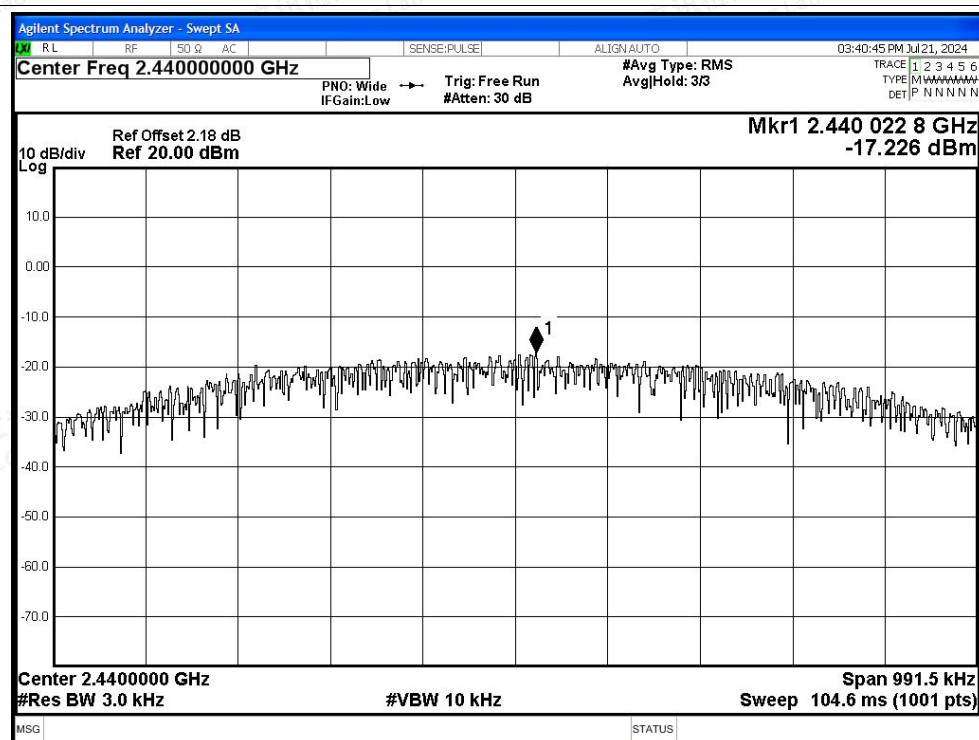


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

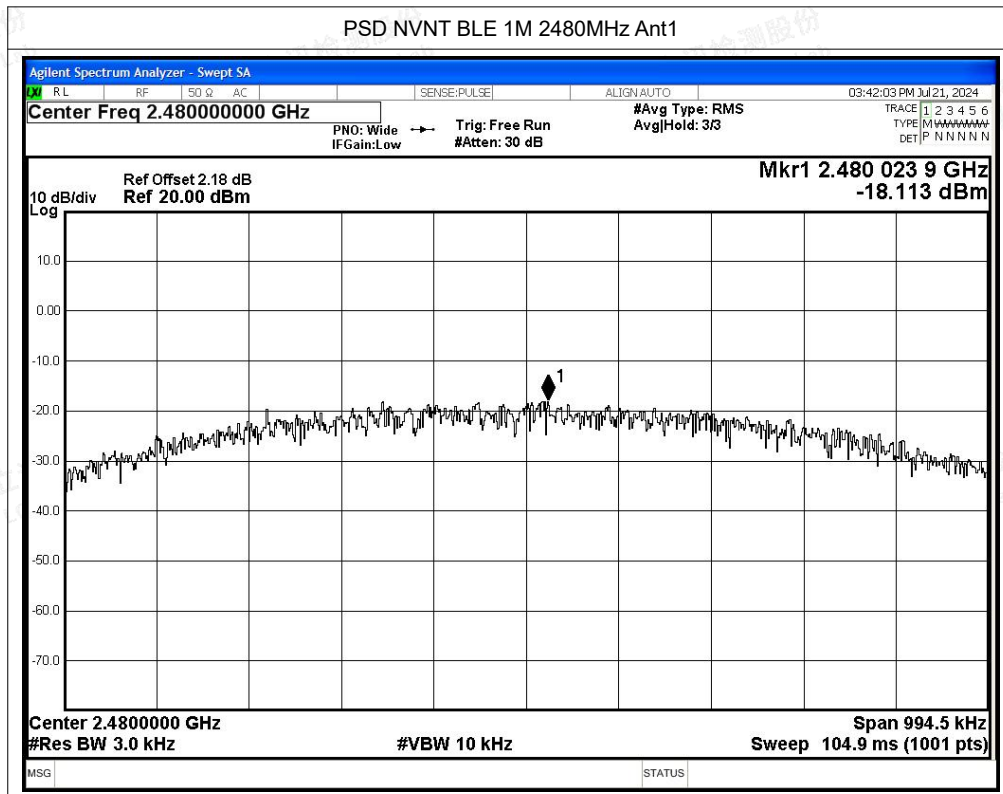


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.13	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.86	-20	Pass

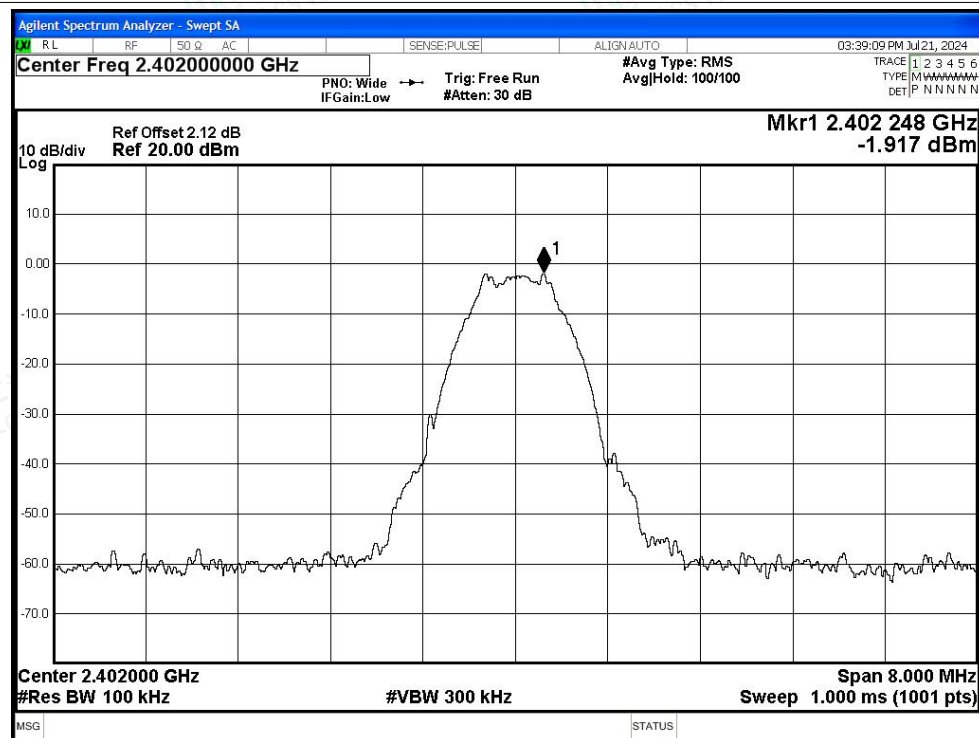


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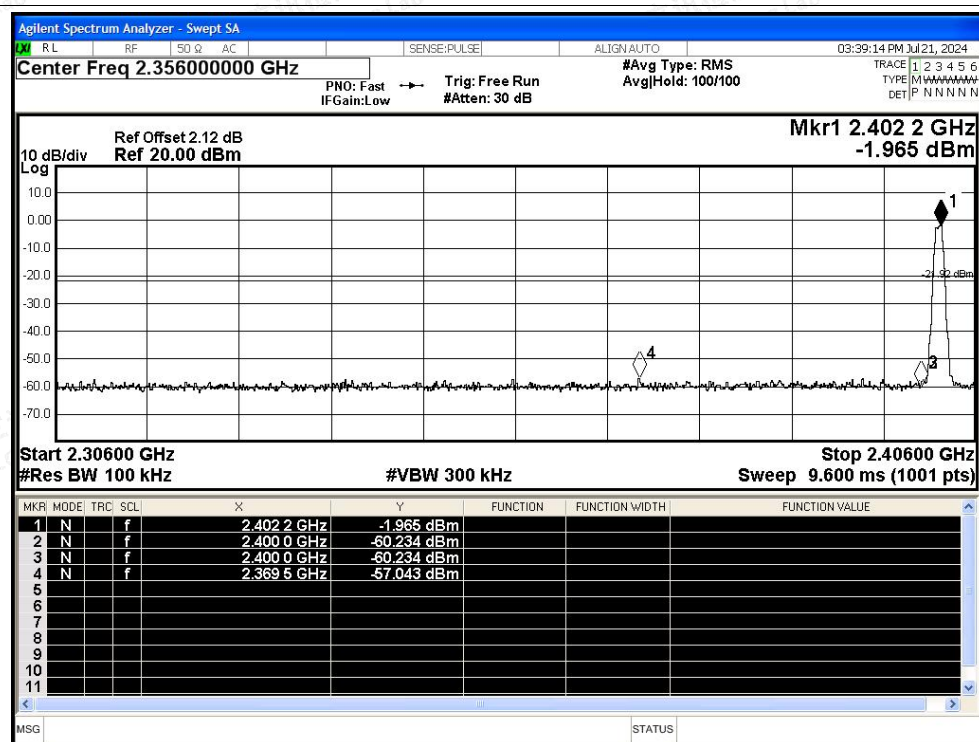


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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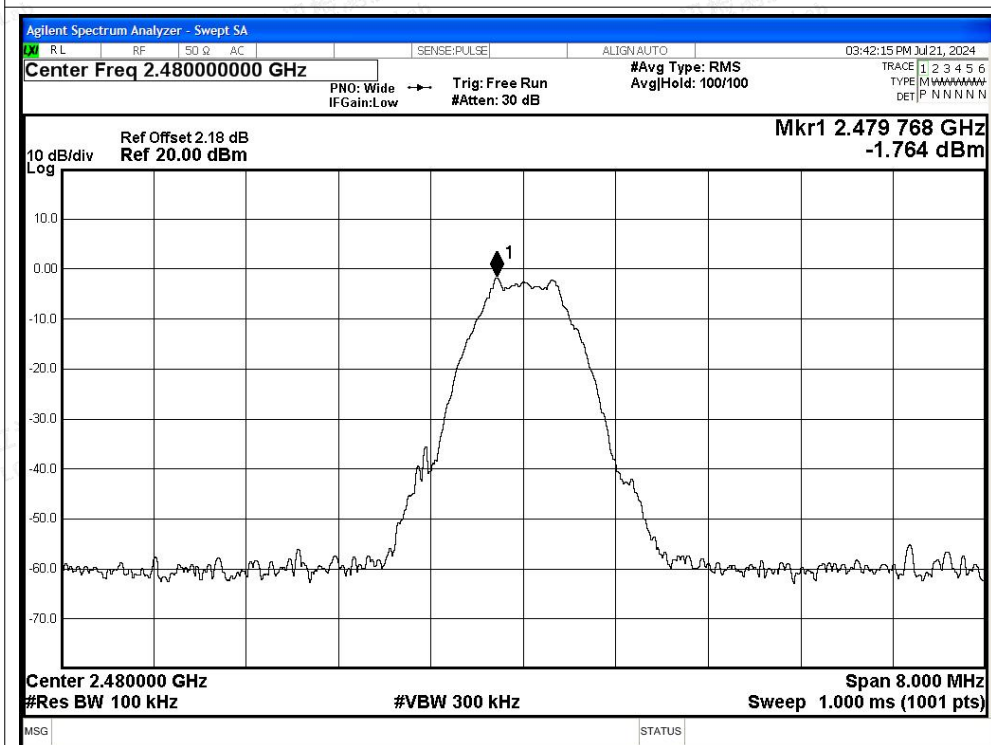
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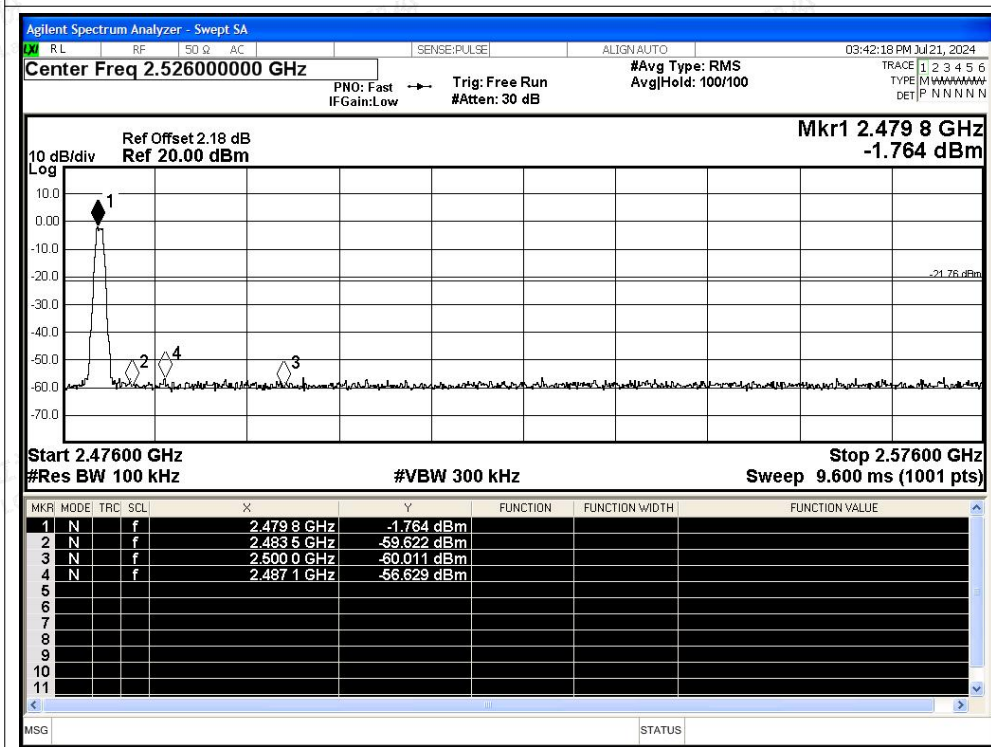
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



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	-53.53	-20	Pass
NVNT	BLE 1M	2440	Ant1	-53.59	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.97	-20	Pass

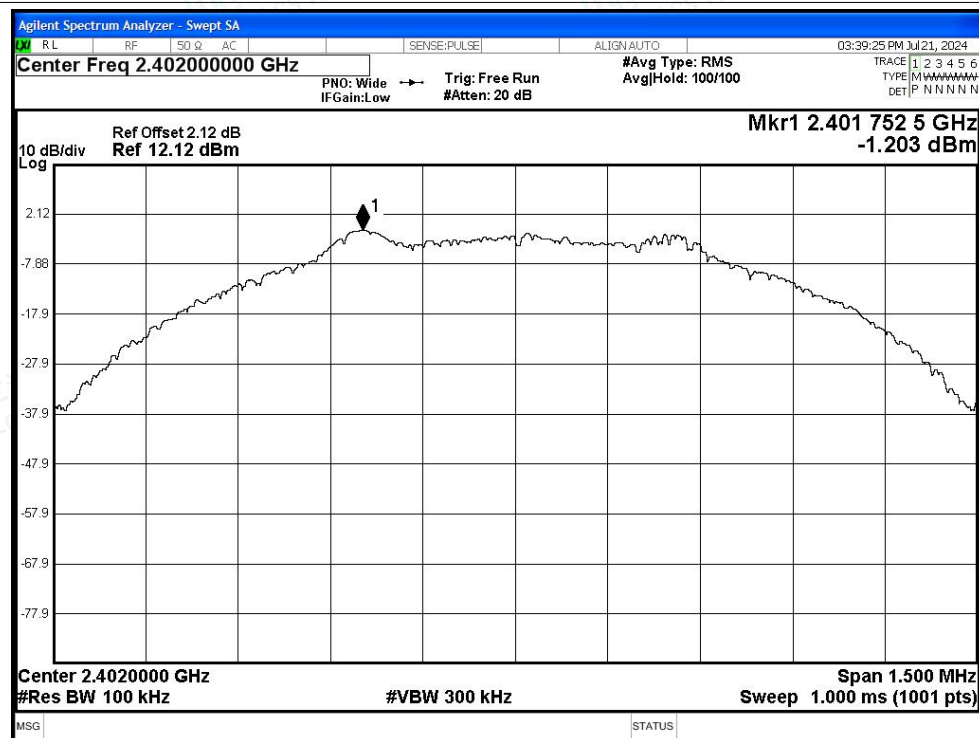


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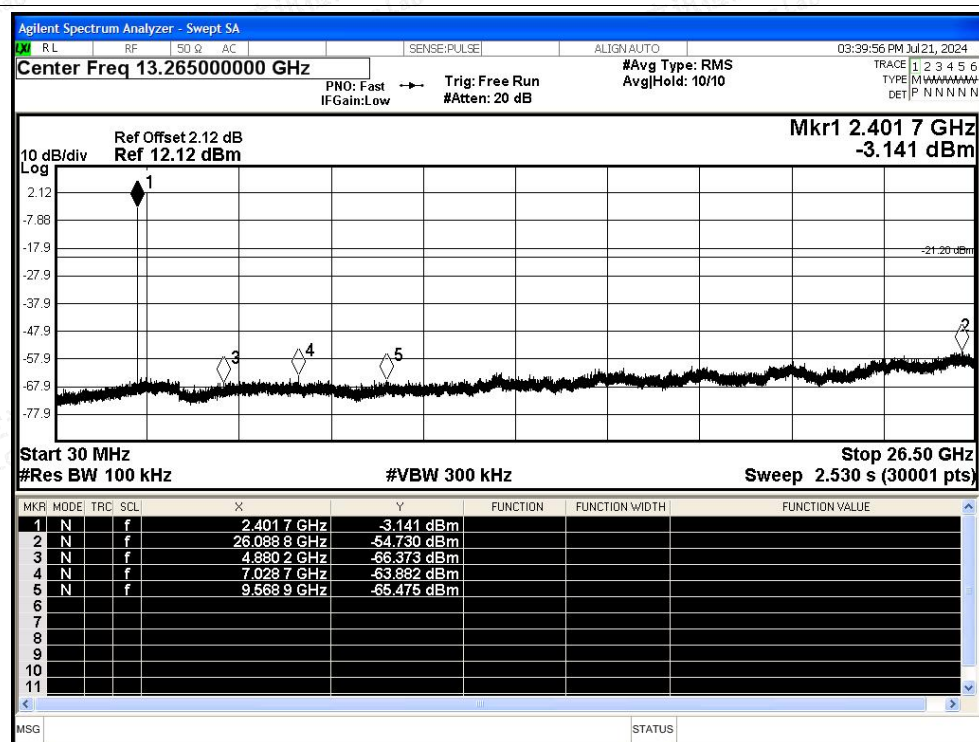


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

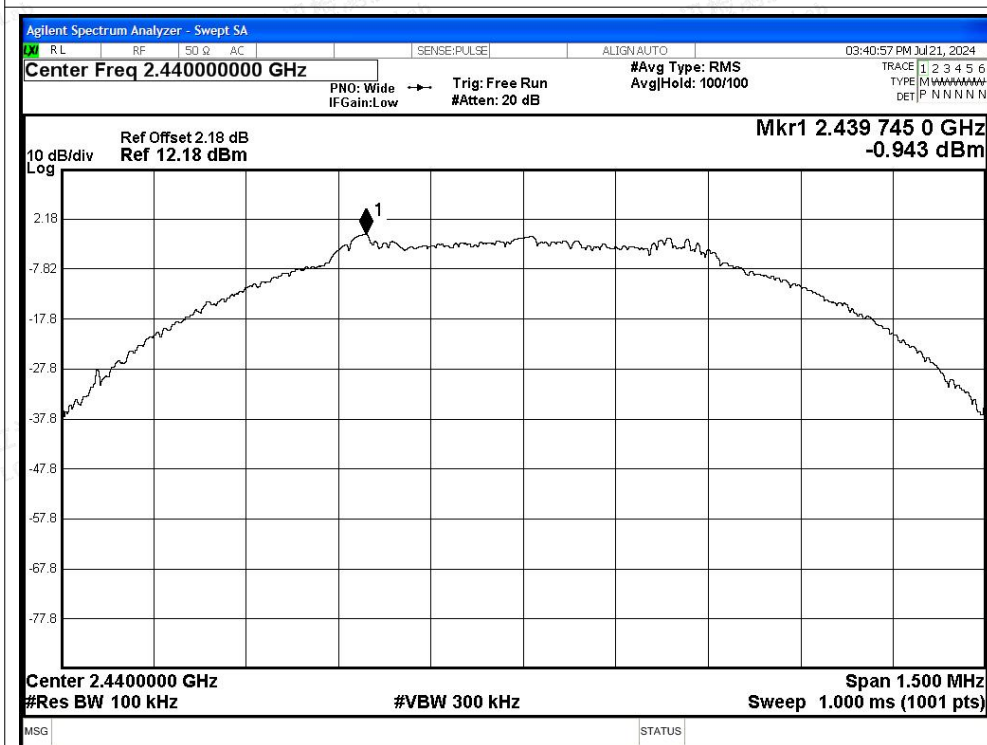
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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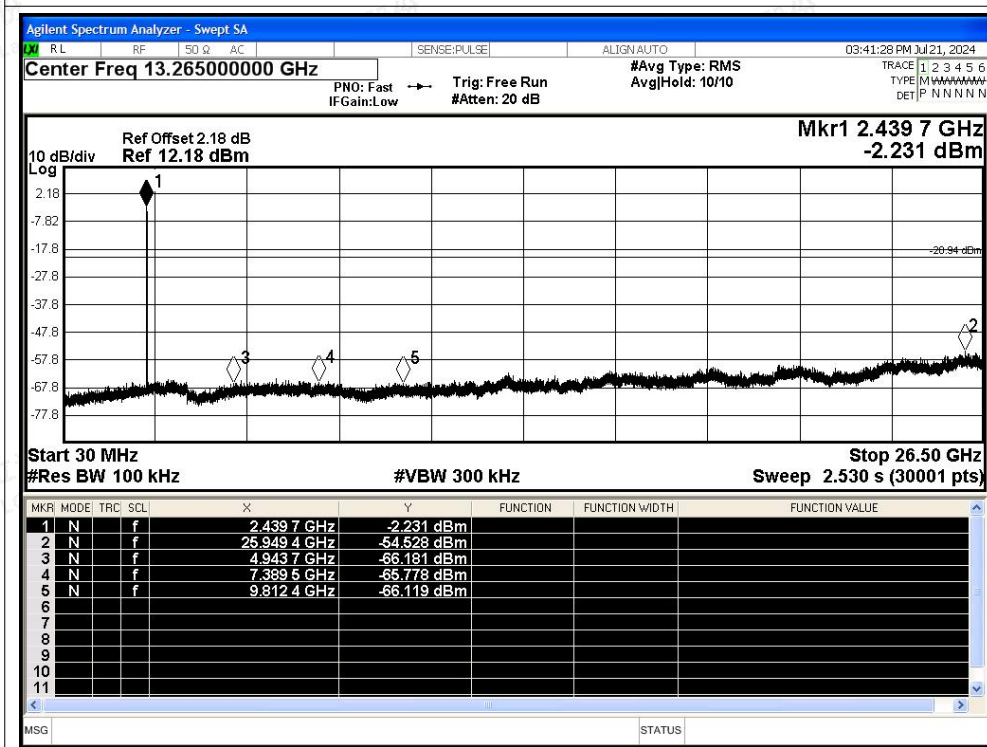
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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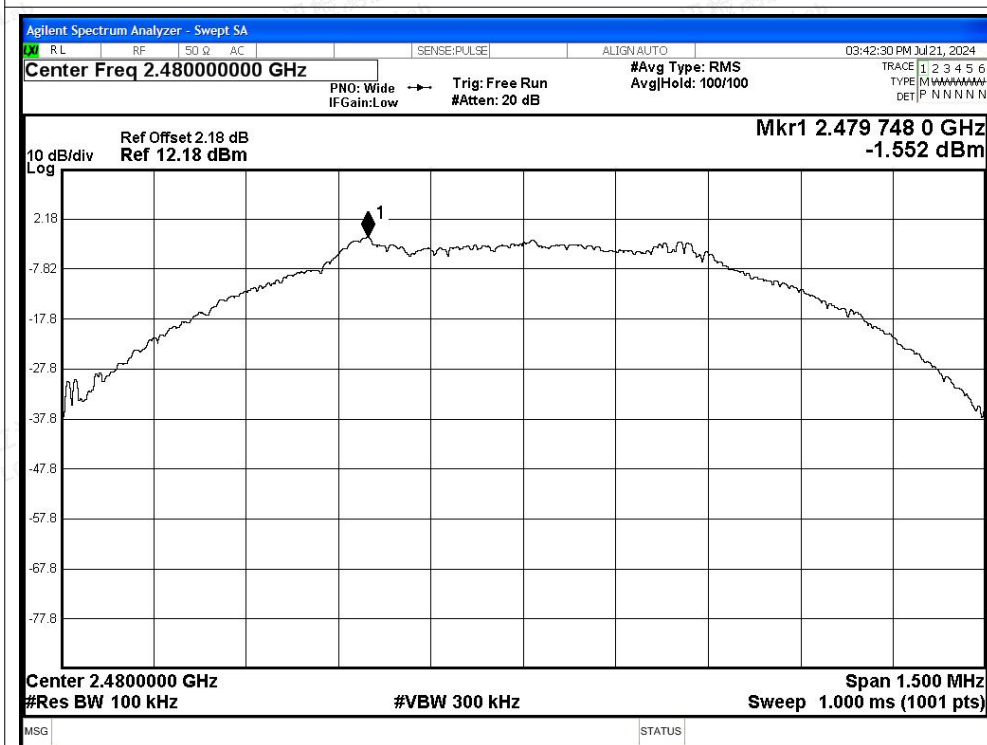
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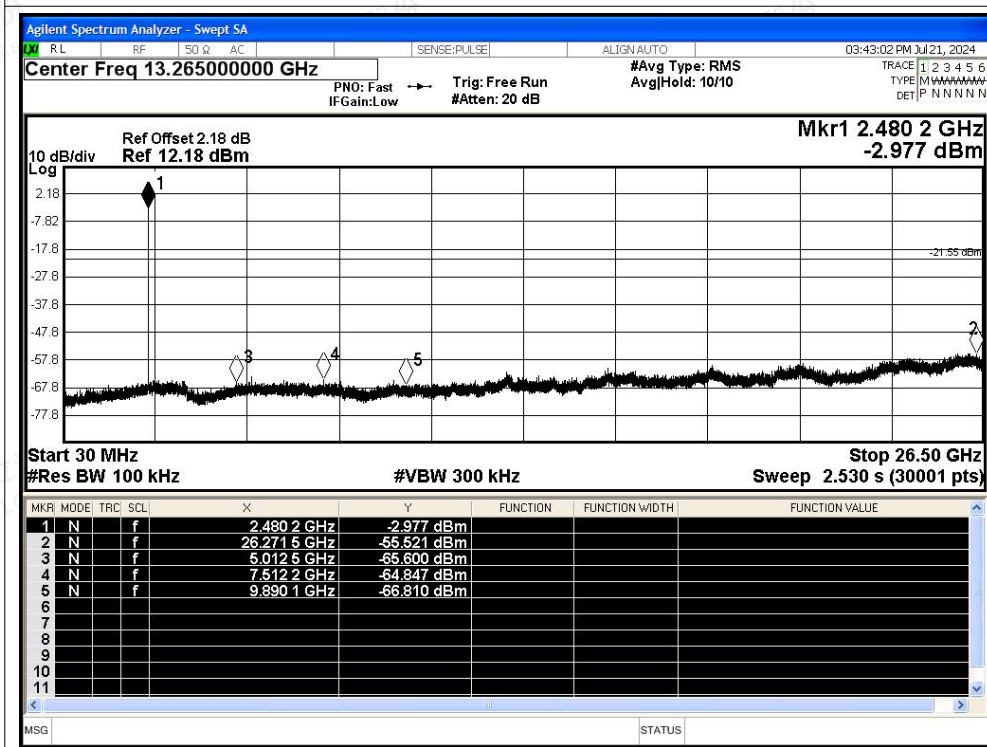
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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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

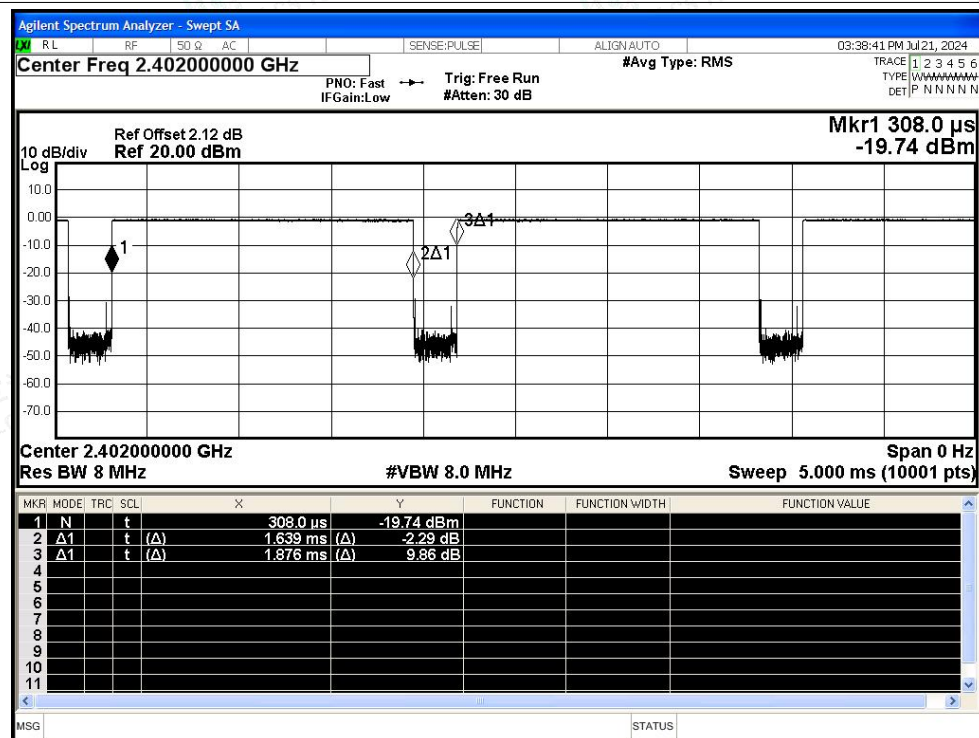


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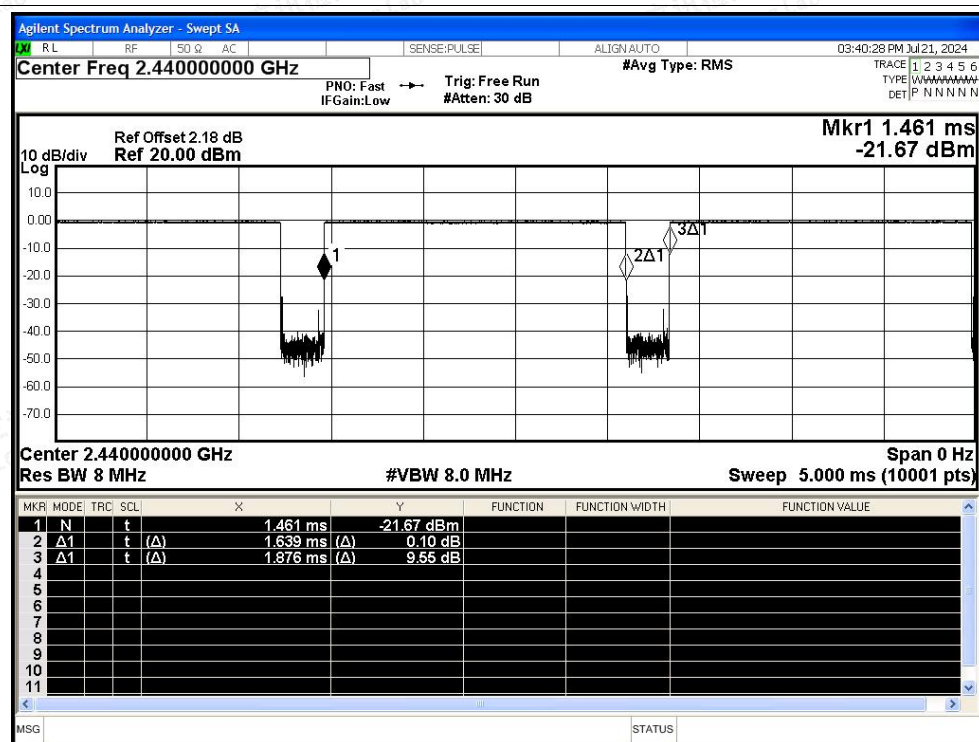


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

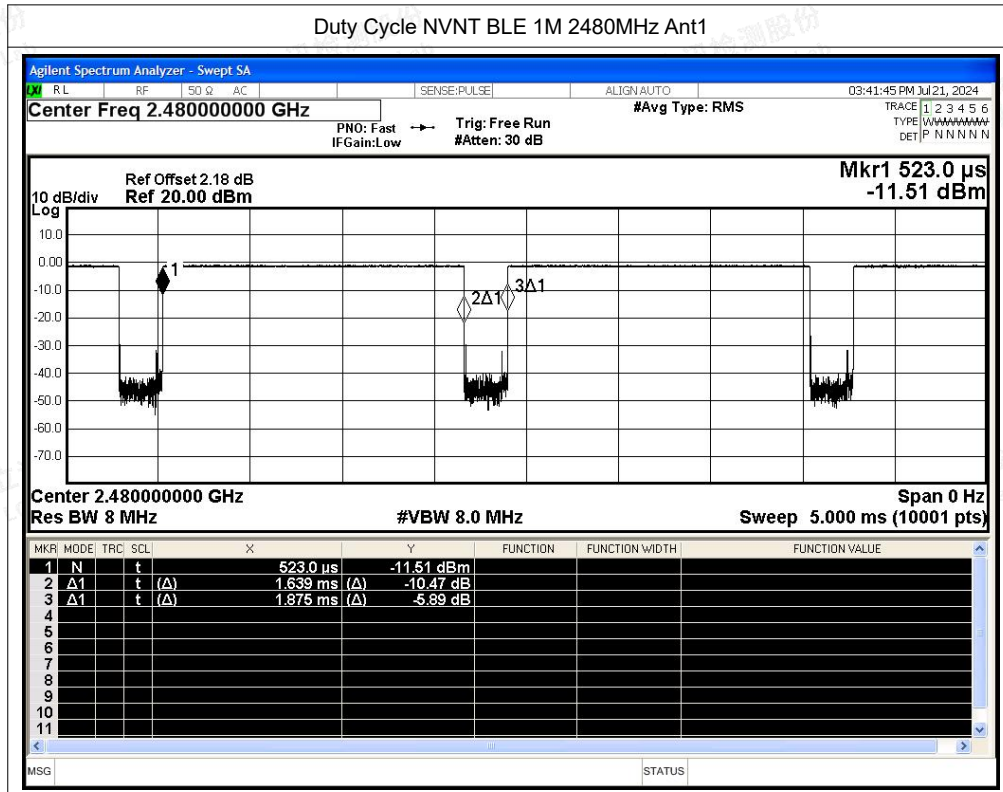


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B.7 Restrict Band

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	-50.77	2.00	-	46.49	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.65	2.00	0.59	39.20	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2374.32	-46.31	2.00	-	50.95	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2341.584	-57.67	2.00	0.59	40.18	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.63	2.00	-	47.63	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.35	2.00	0.59	39.50	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-49.51	2.00	-	47.75	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.66	2.00	0.59	40.19	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2484.016	-44.55	2.00	-	52.71	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2490.712	-57.14	2.00	0.59	40.71	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-48.53	2.00	-	48.73	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-57.98	2.00	0.59	39.87	Average	54	Pass

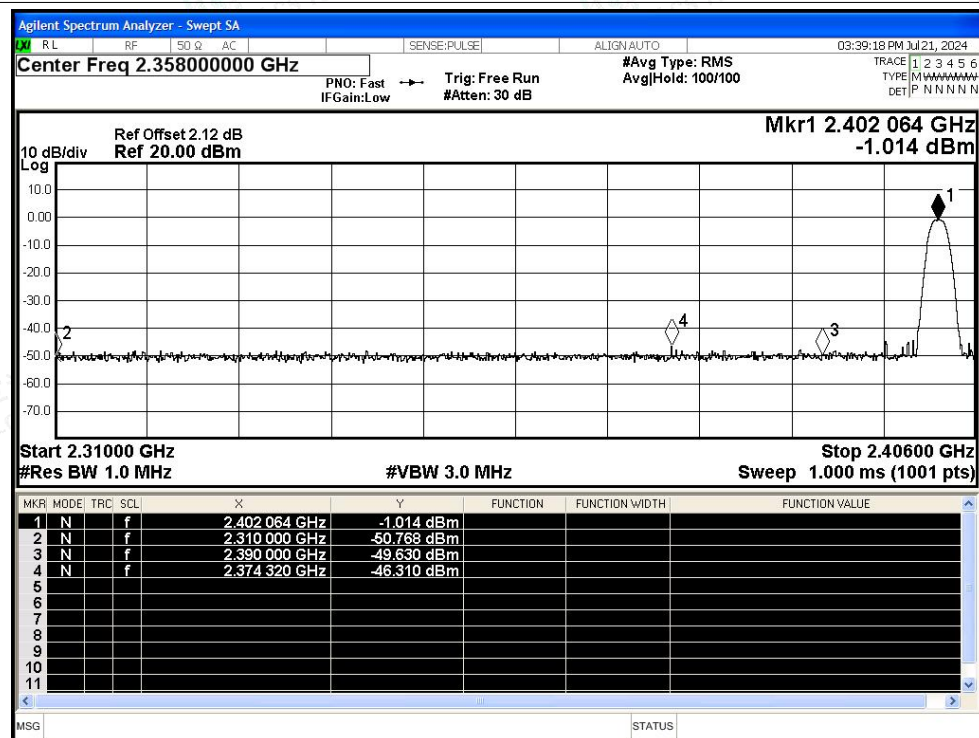


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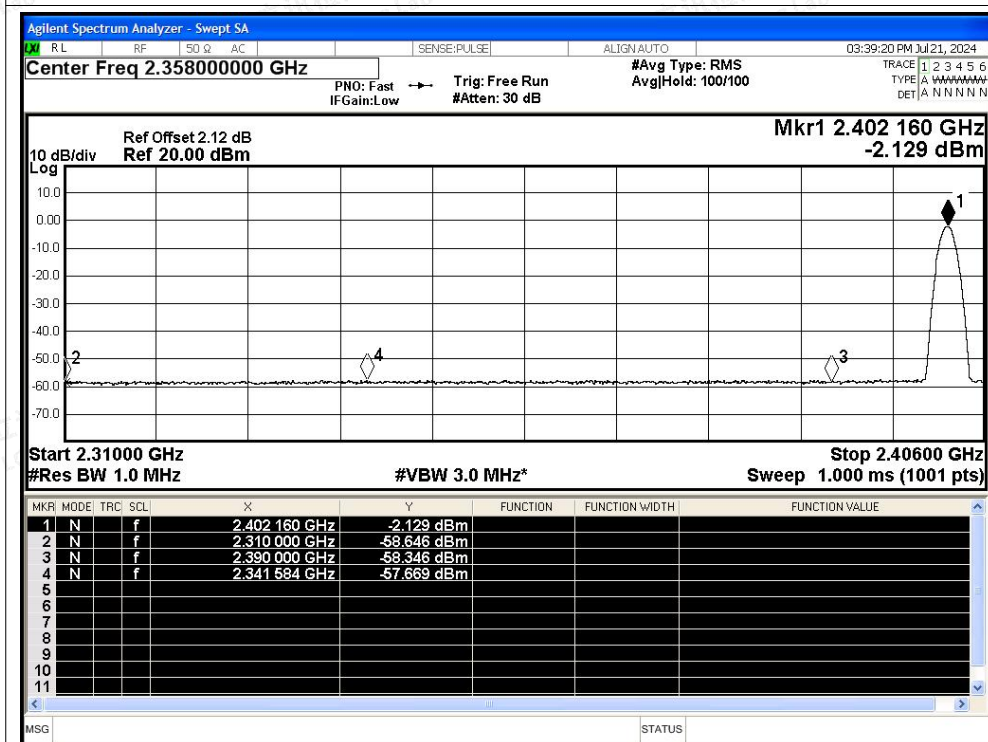


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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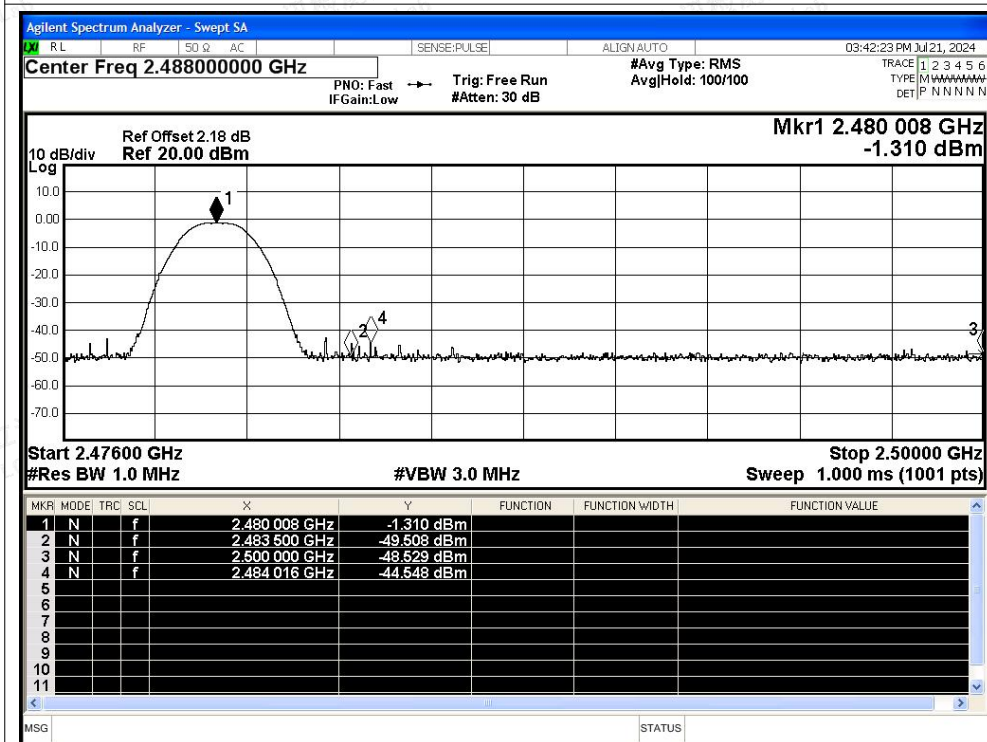
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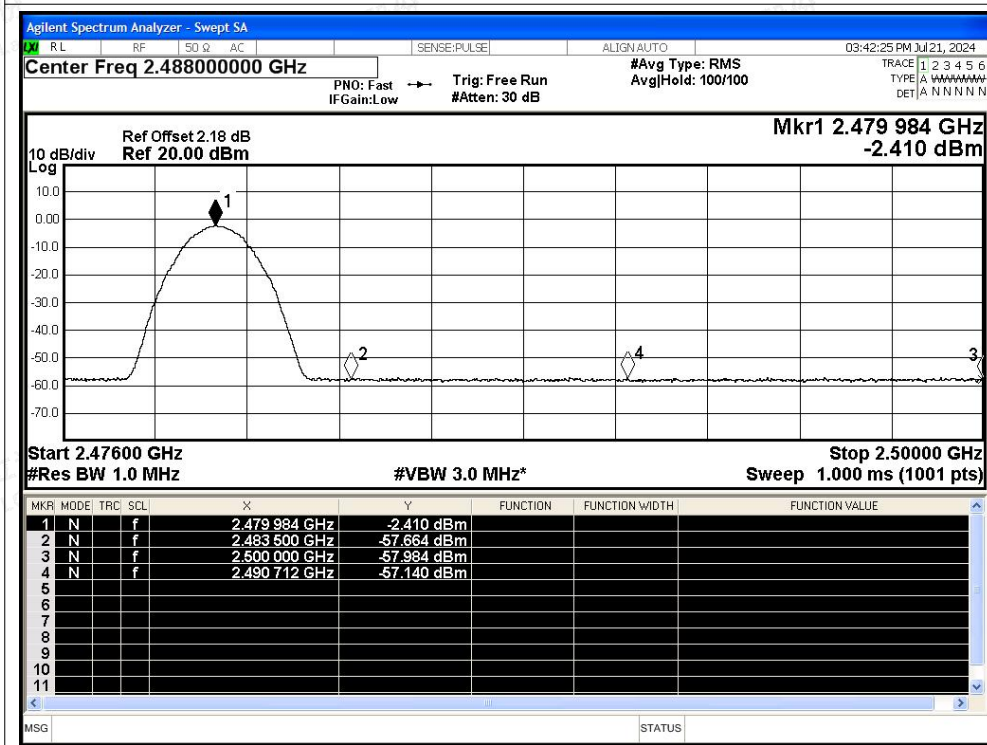
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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