



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Locator

Test Model: XR-2.1

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu





A.1 -6dB Bandwidth

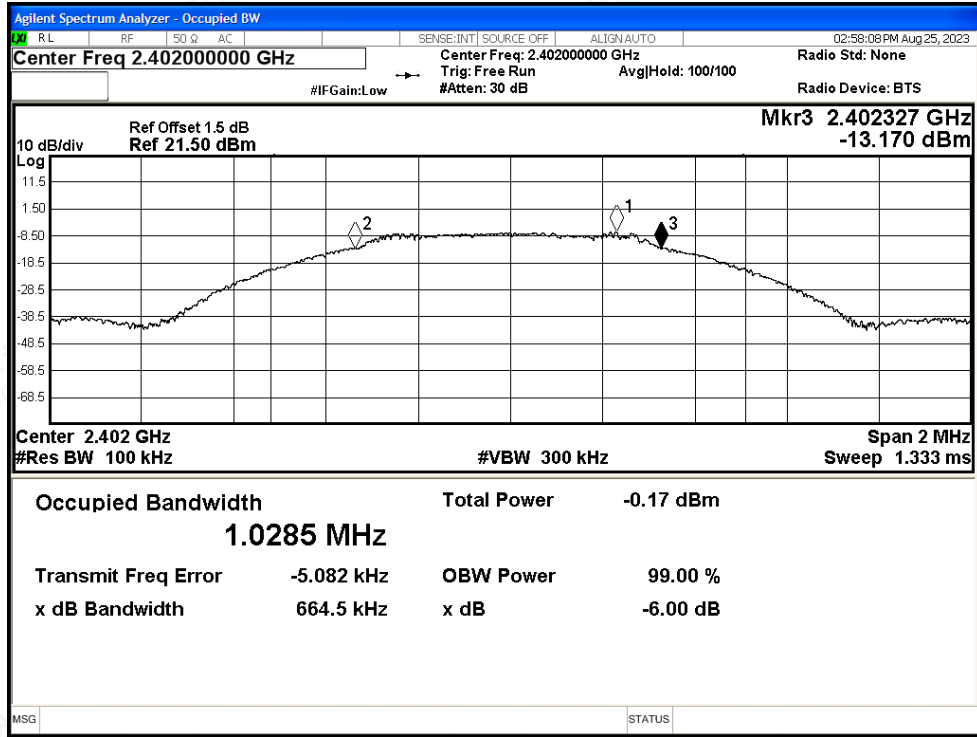
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.665	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.671	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.665	0.5	Pass



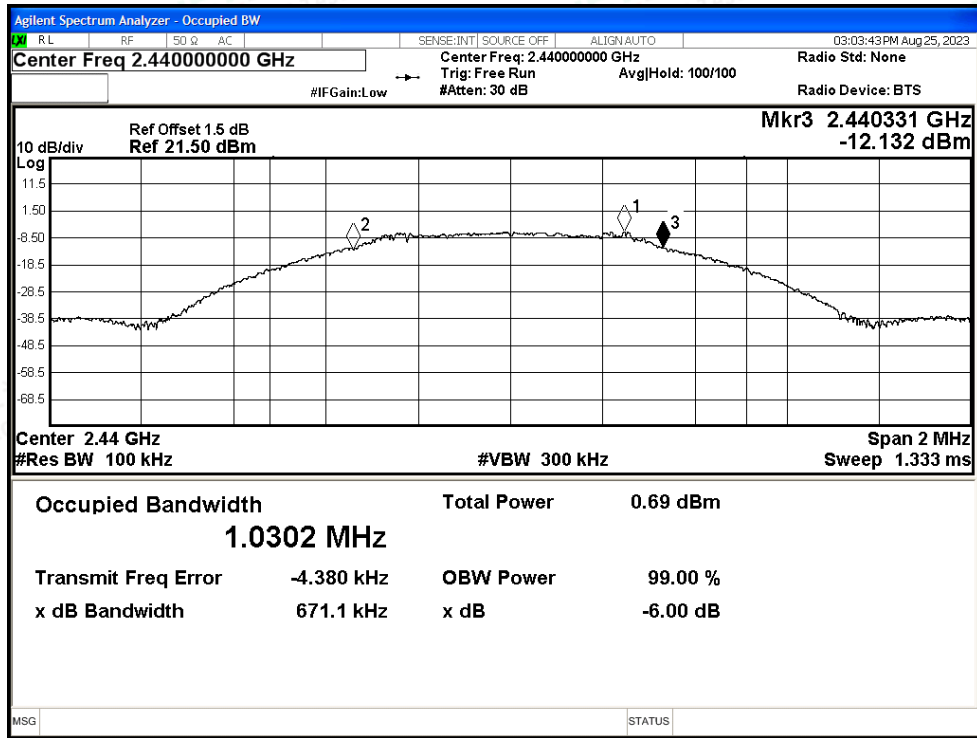


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

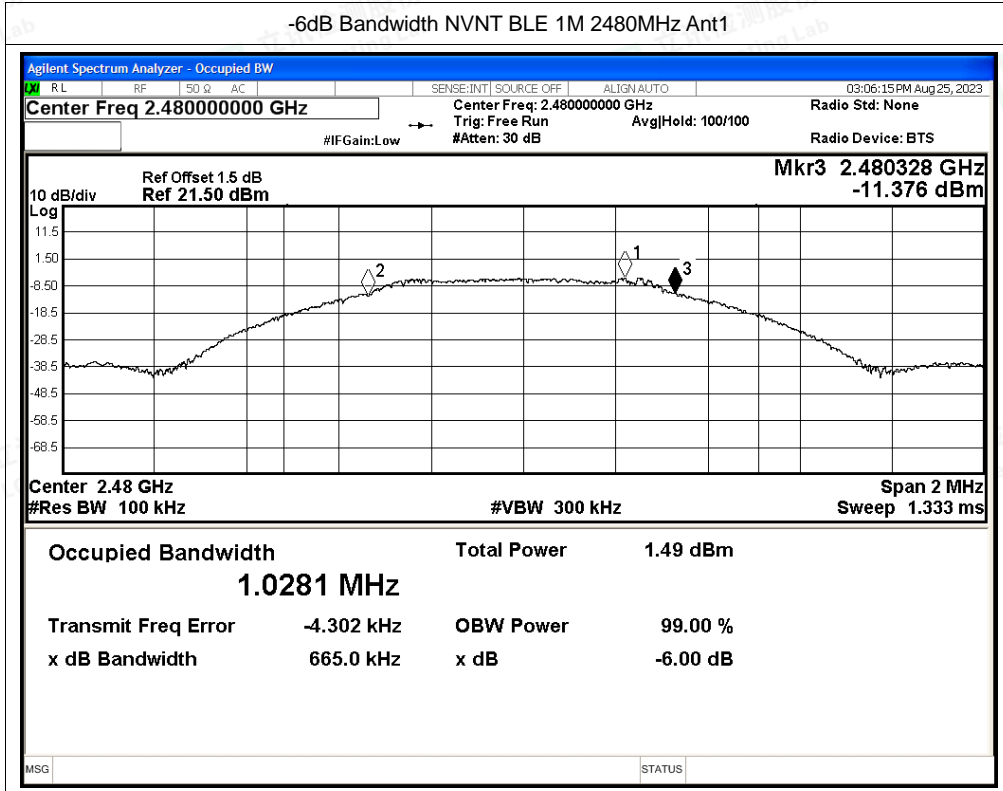


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A.2 Maximum Conducted Output Power

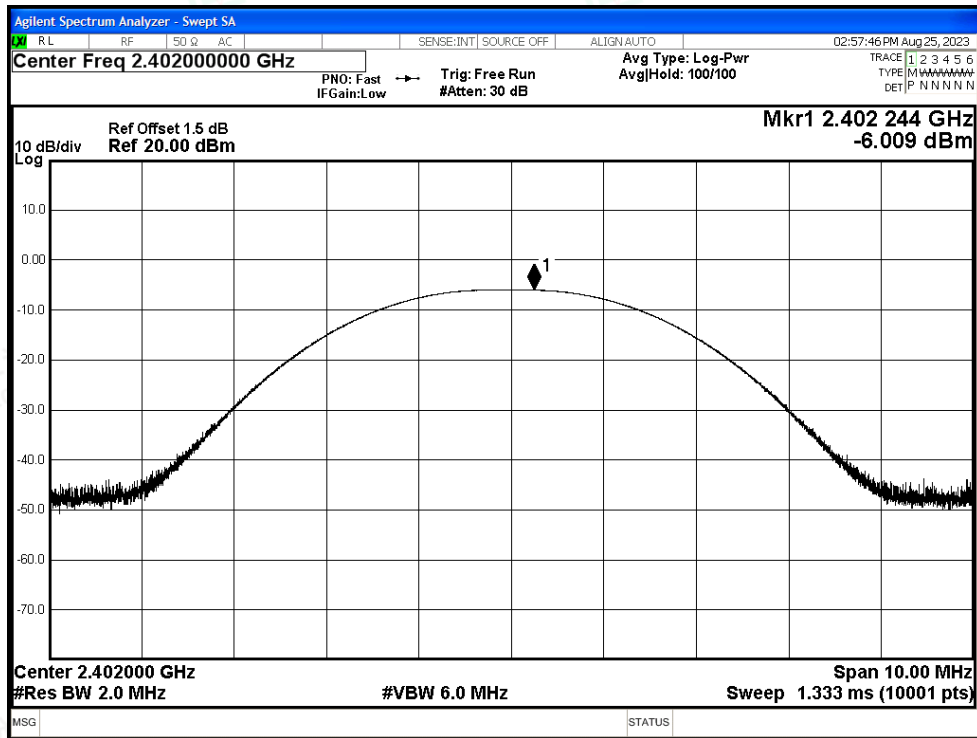
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-6.01	30	Pass
NVNT	BLE 1M	2440	Ant1	-5.15	30	Pass
NVNT	BLE 1M	2480	Ant1	-4.43	30	Pass



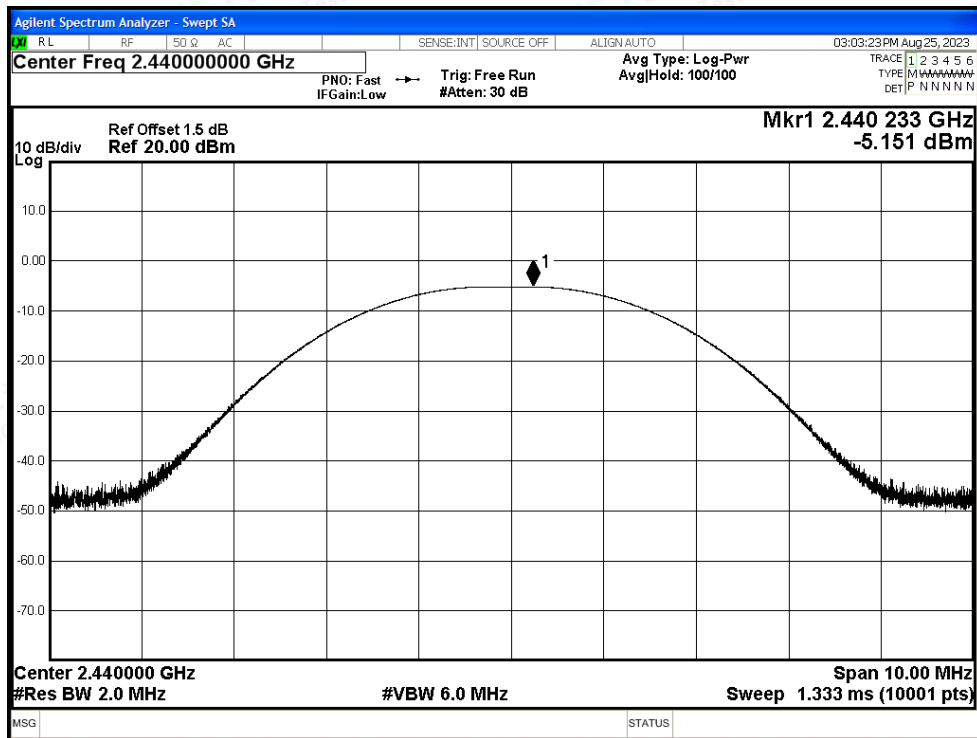


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

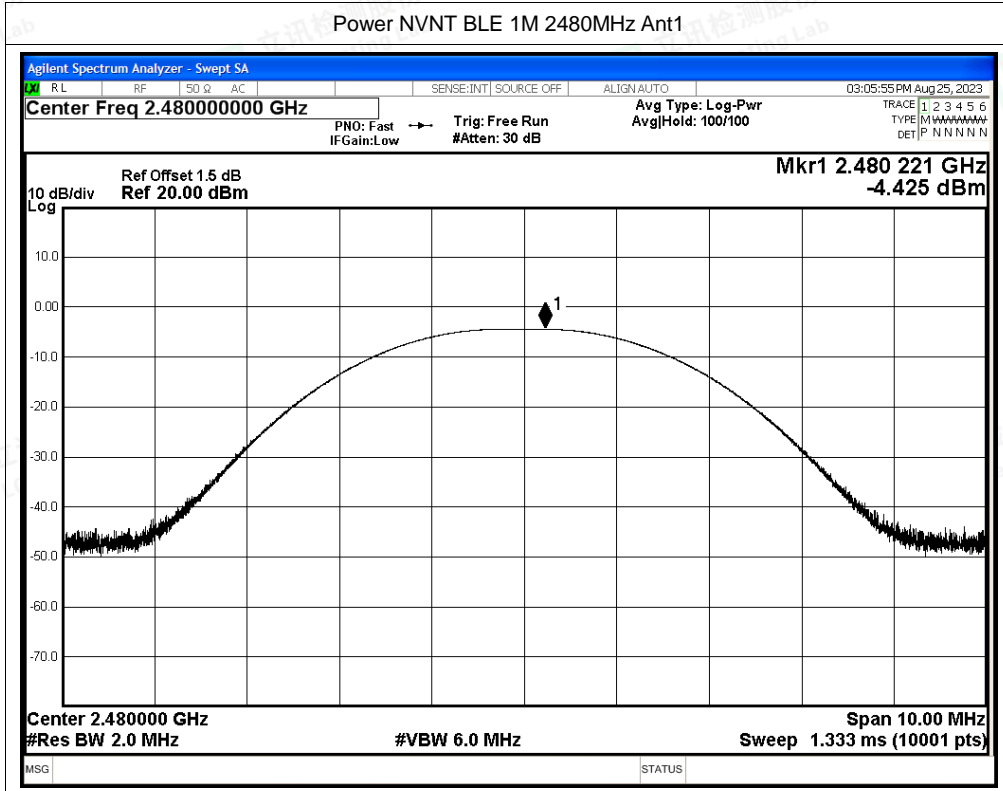


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A.3 Maximum Power Spectral Density Level

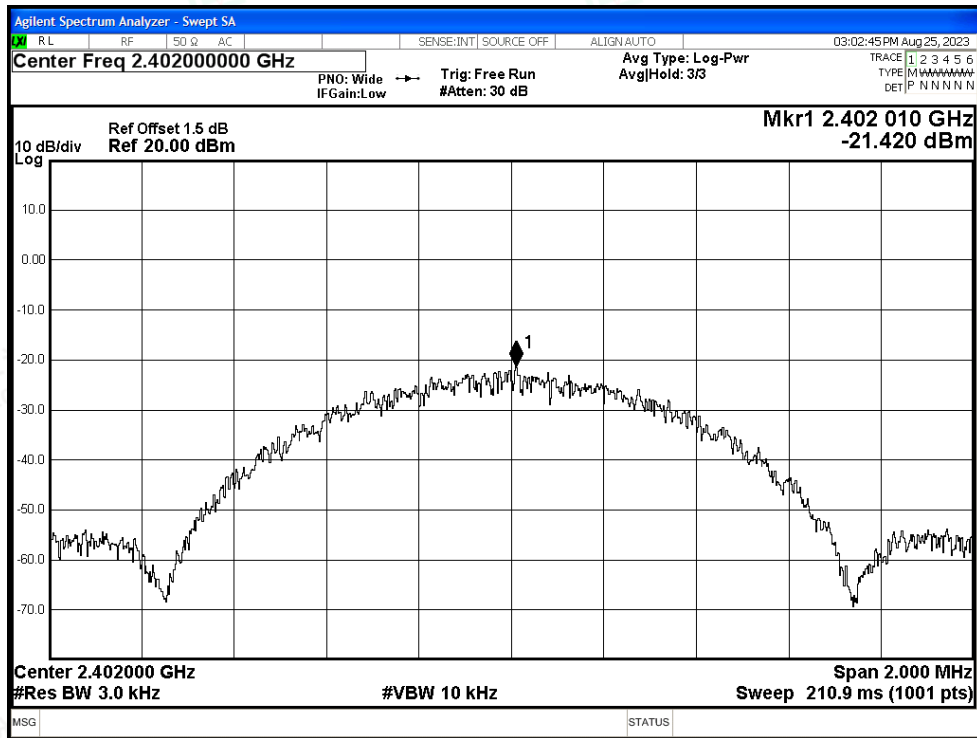
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-21.42	8	Pass
NVNT	BLE 1M	2440	Ant1	-20.64	8	Pass
NVNT	BLE 1M	2480	Ant1	-19.83	8	Pass



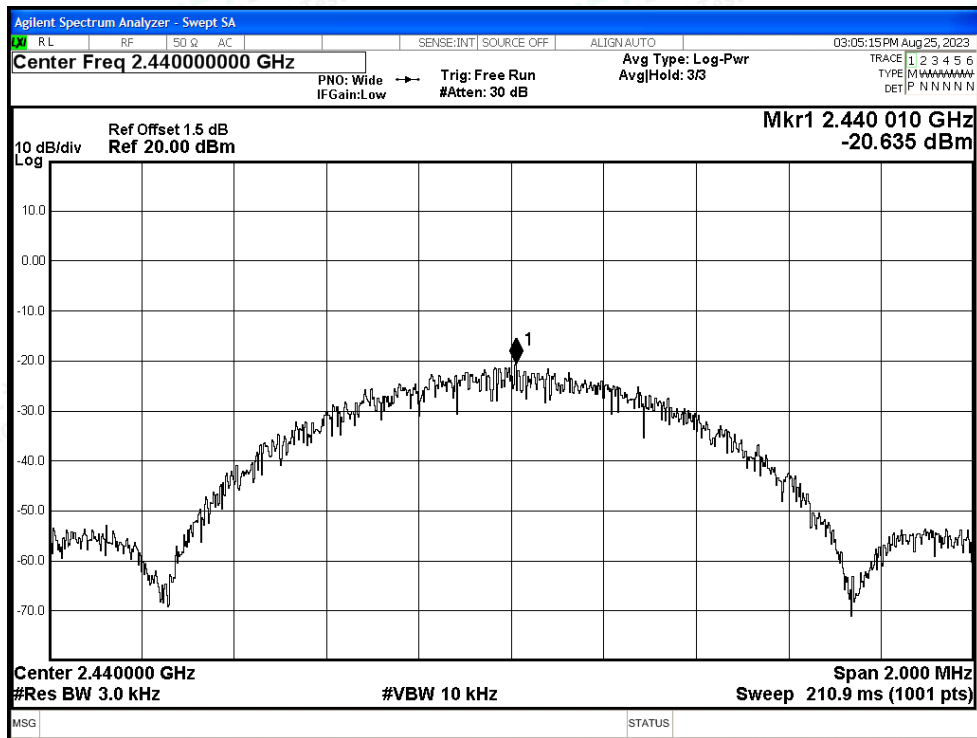


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

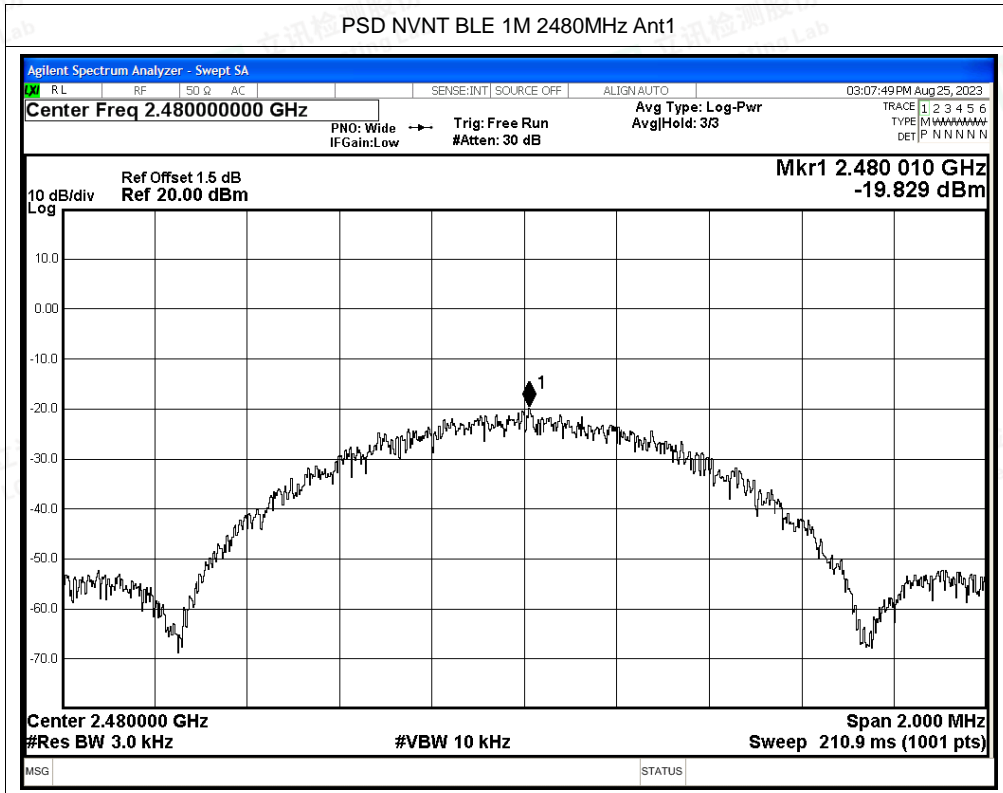


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A.4 Band Edge

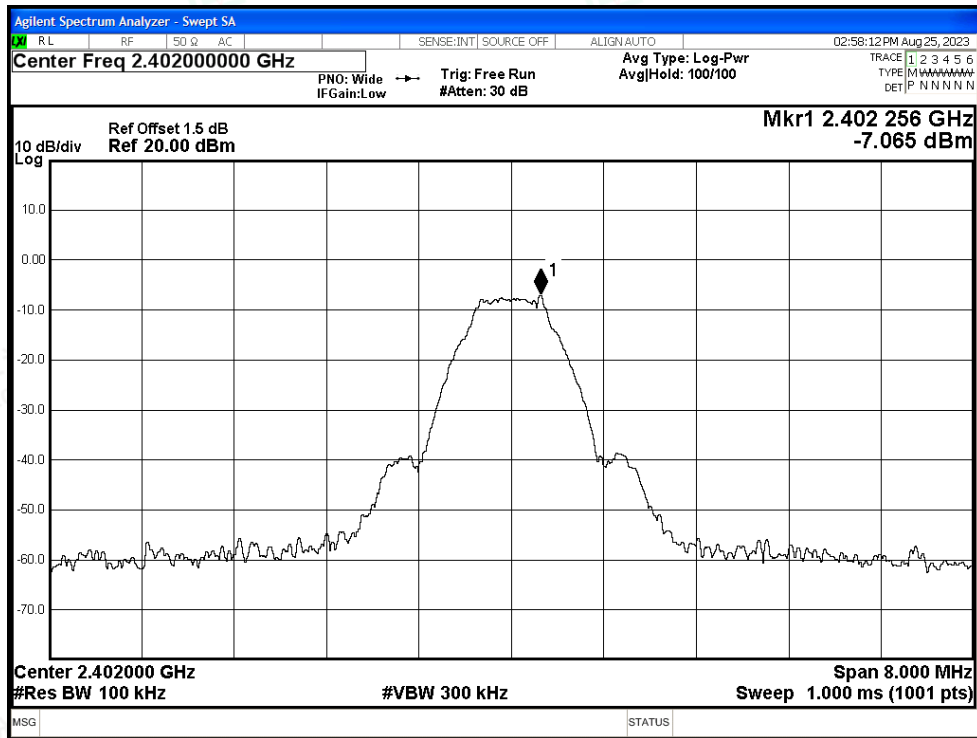
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-49.25	-20	Pass
NVNT	BLE 1M	2480	Ant1	-51.7	-20	Pass



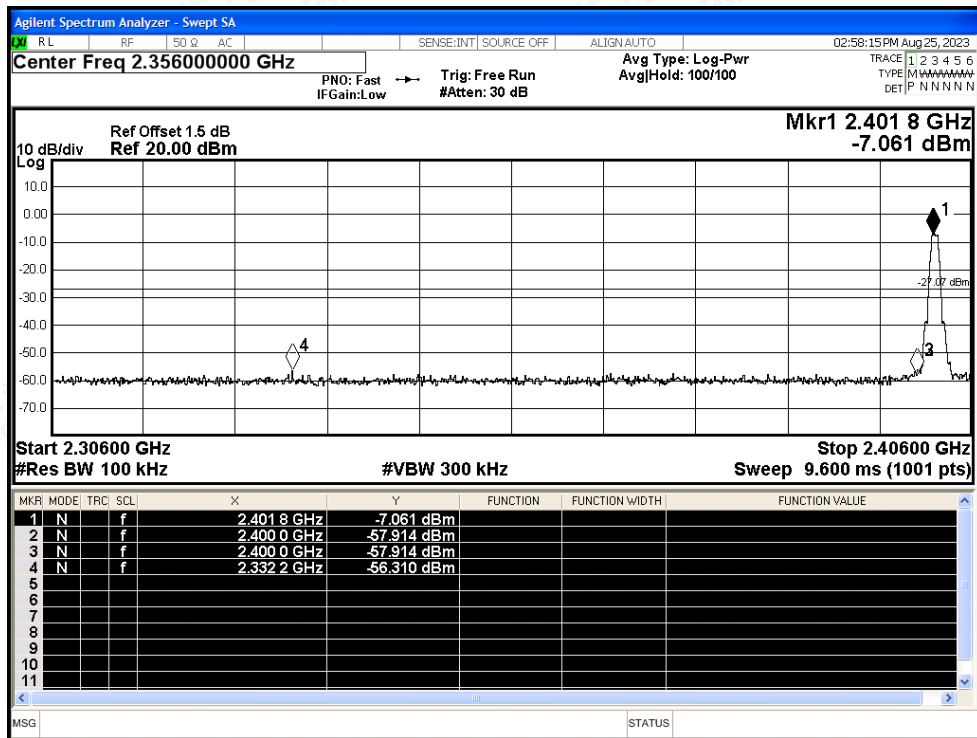


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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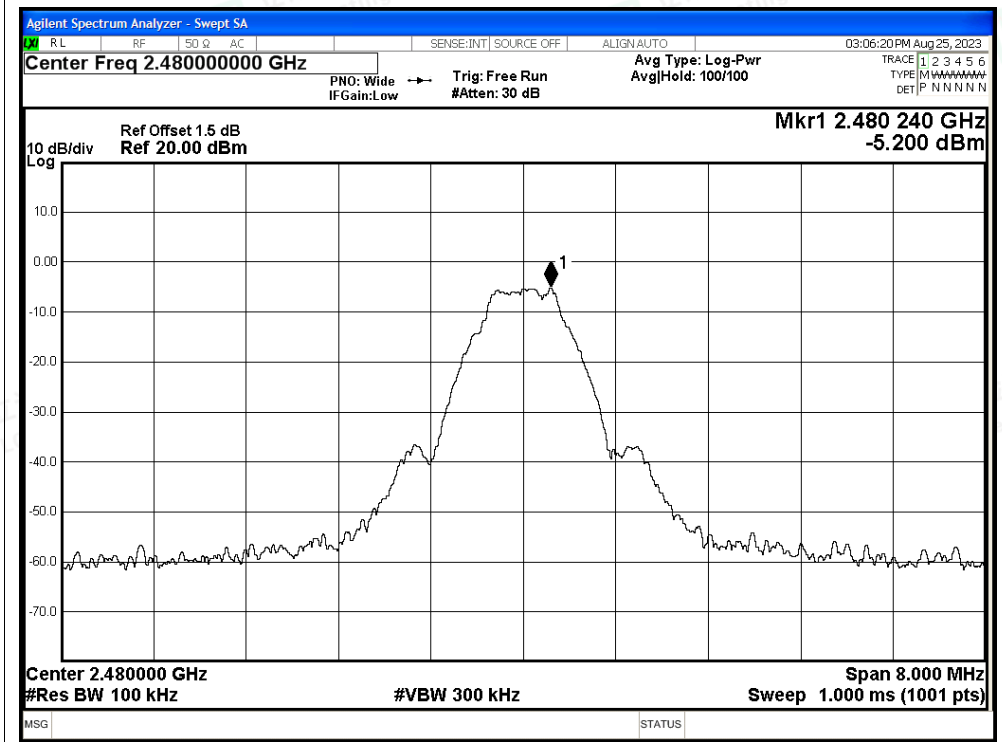
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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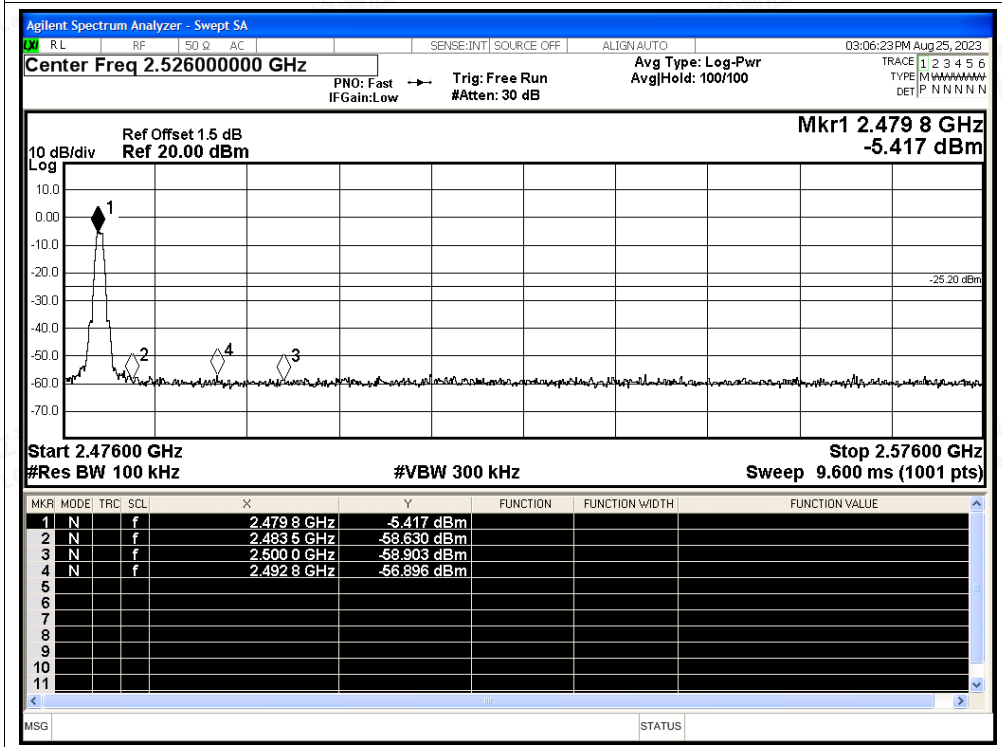
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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A.5 Conducted RF Spurious Emission

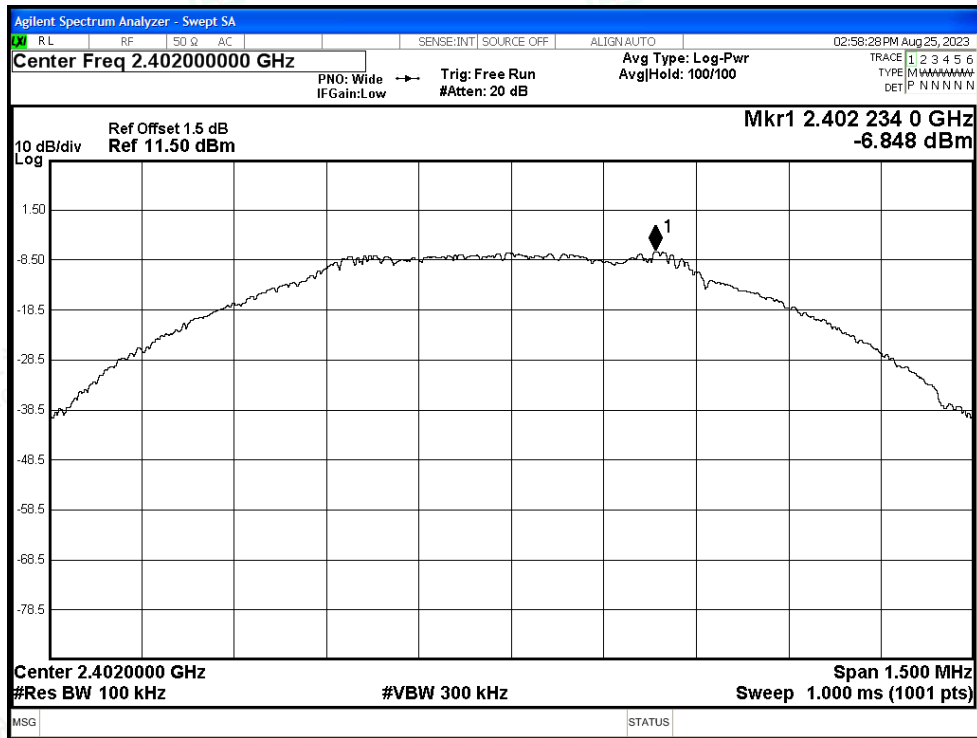
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-30.57	-20	Pass
NVNT	BLE 1M	2440	Ant1	-32.82	-20	Pass
NVNT	BLE 1M	2480	Ant1	-34.76	-20	Pass



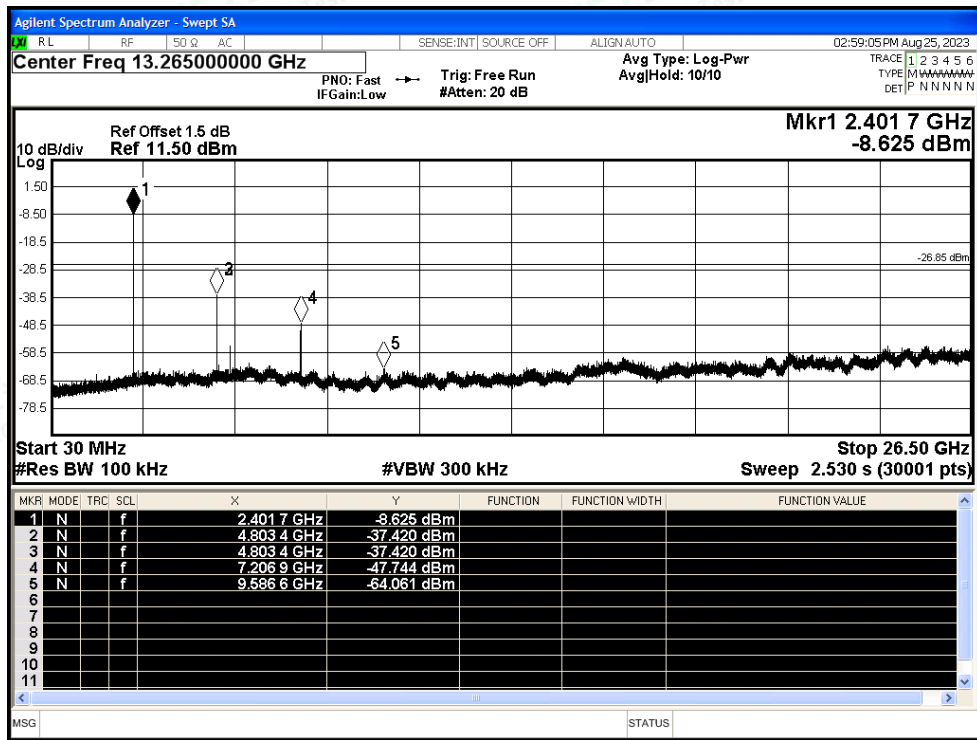


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

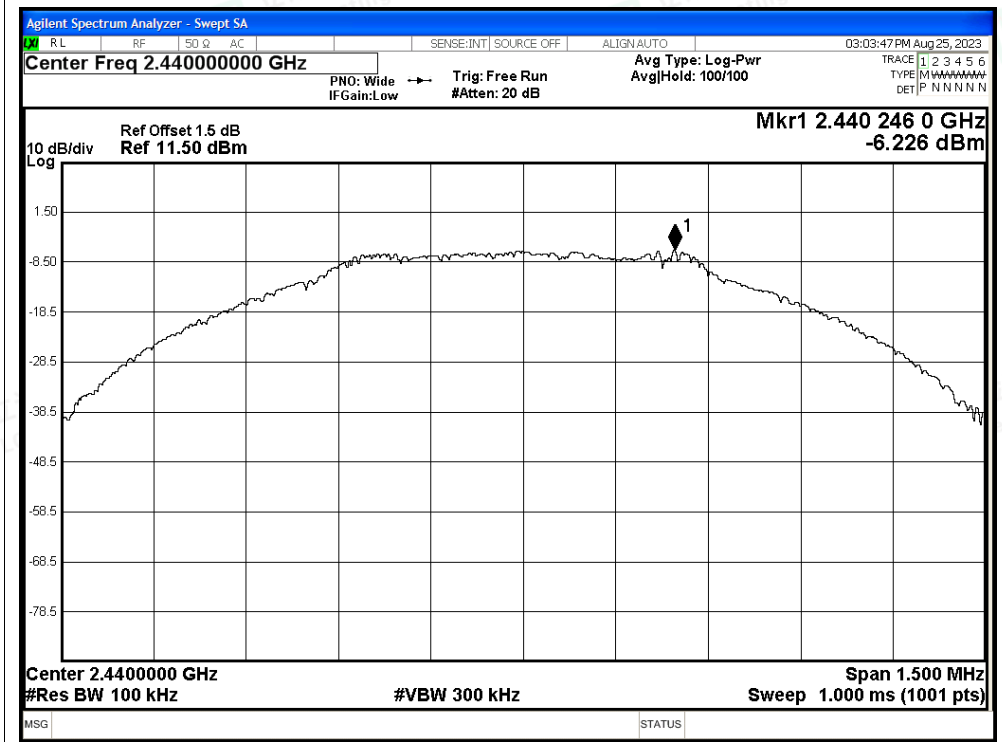
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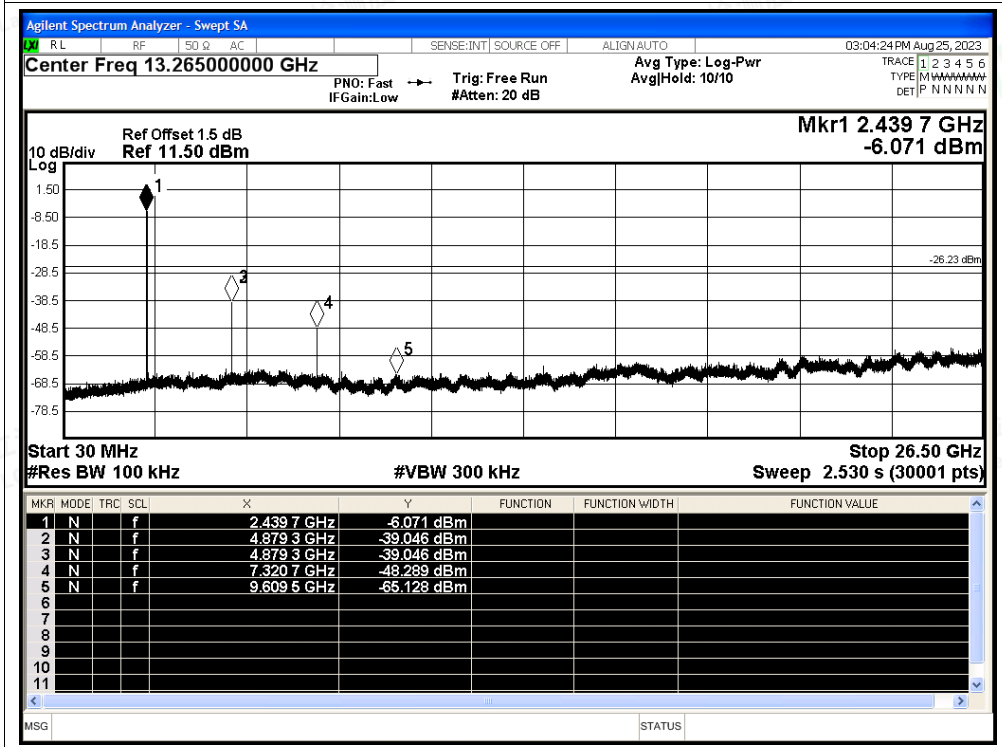
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

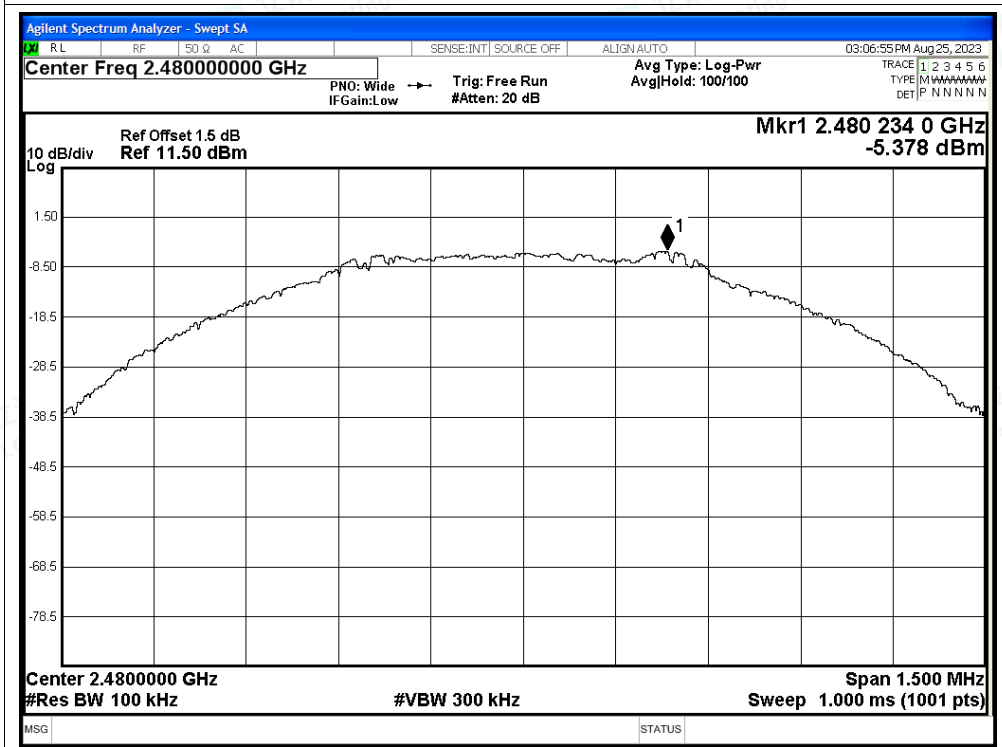
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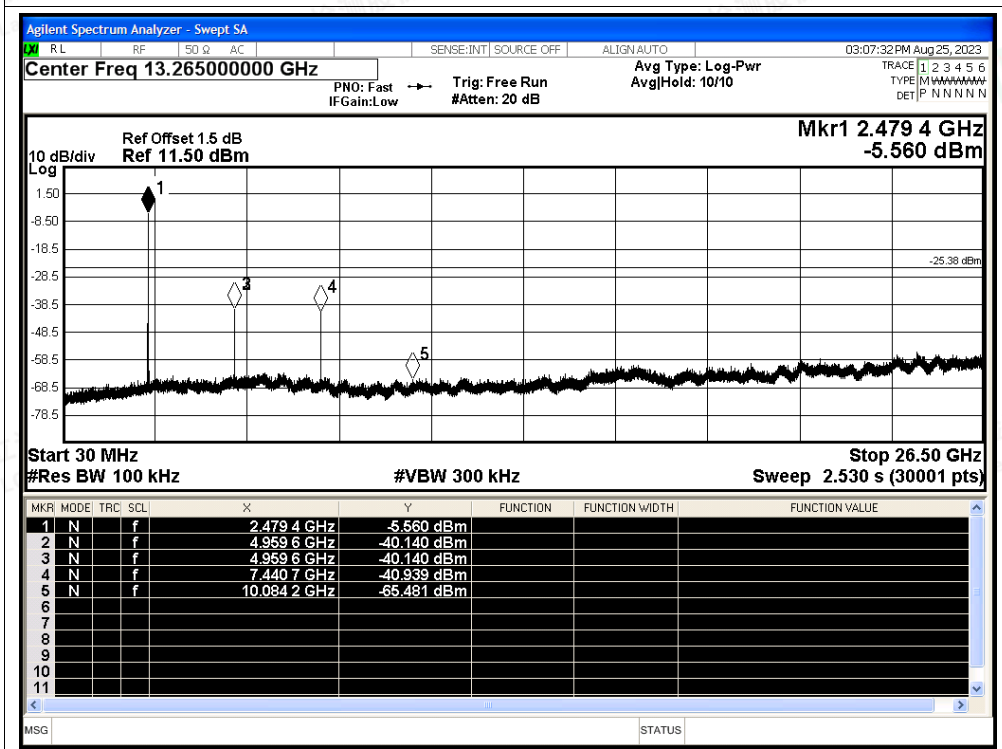
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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A.6 Duty Cycle

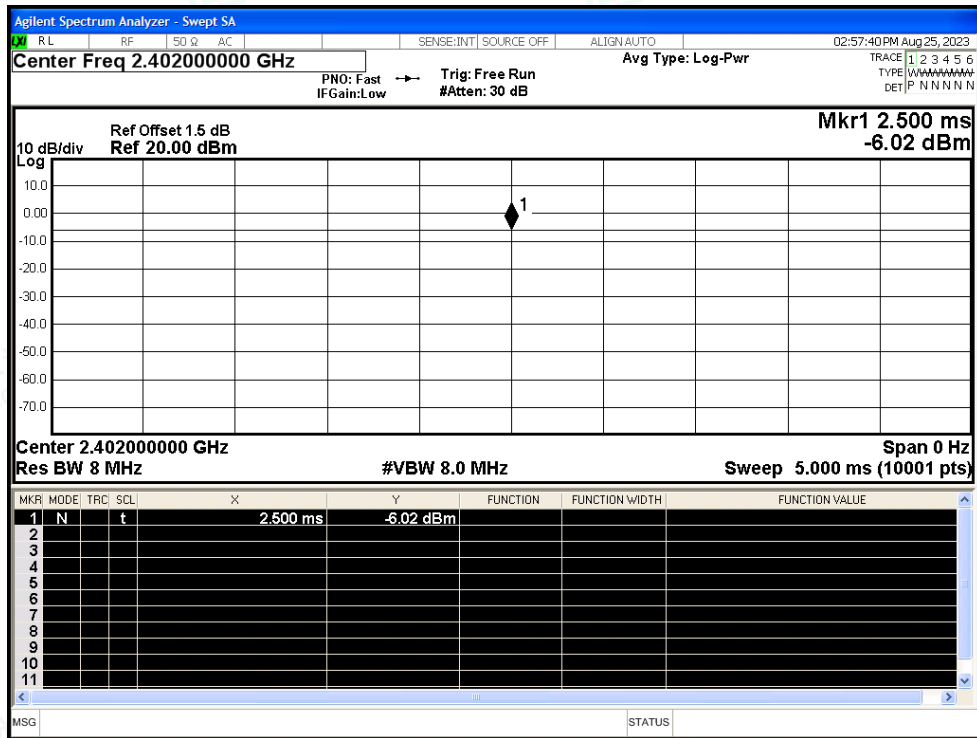
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	100	0	0
NVNT	BLE 1M	2440	Ant1	100	0	0
NVNT	BLE 1M	2480	Ant1	100	0	0



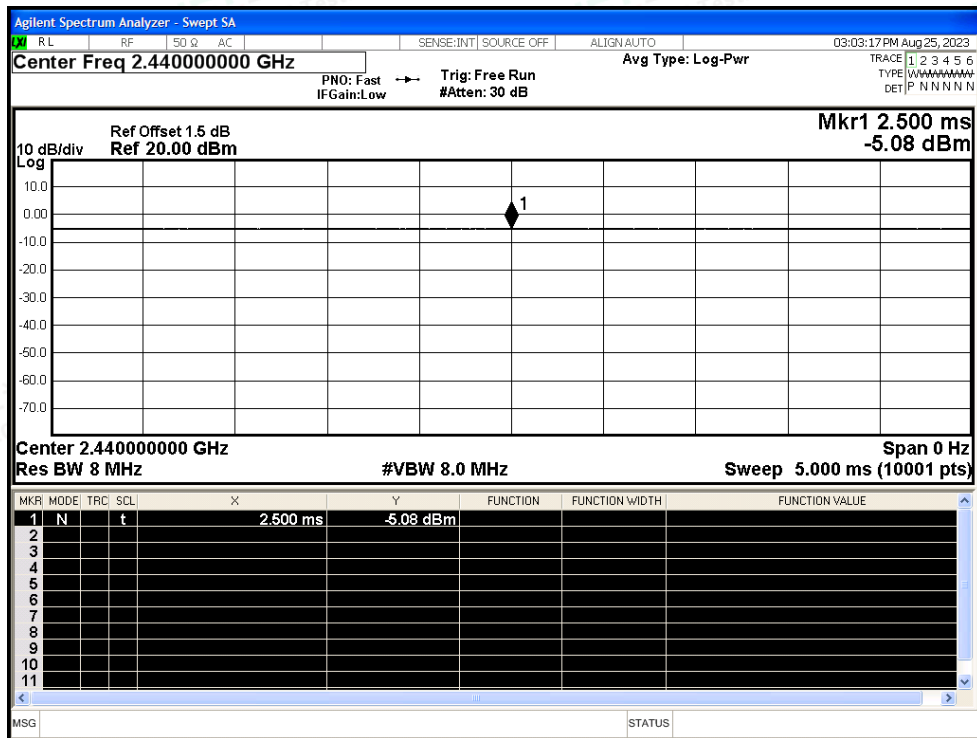


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

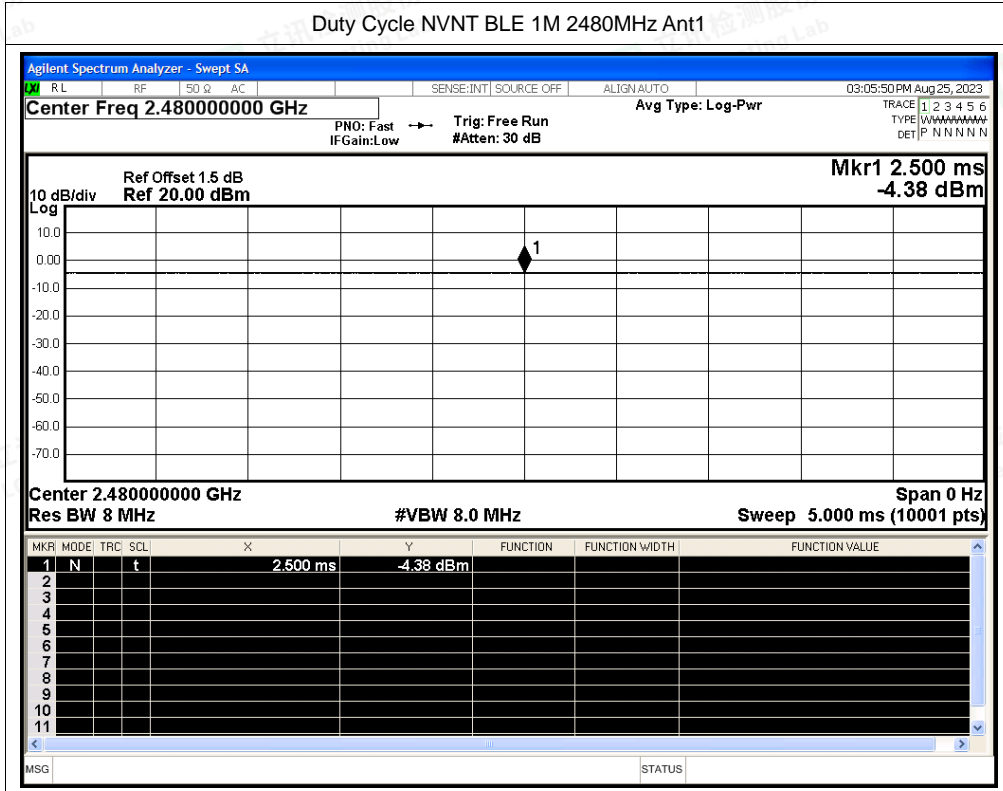


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A.7 Restrict Band

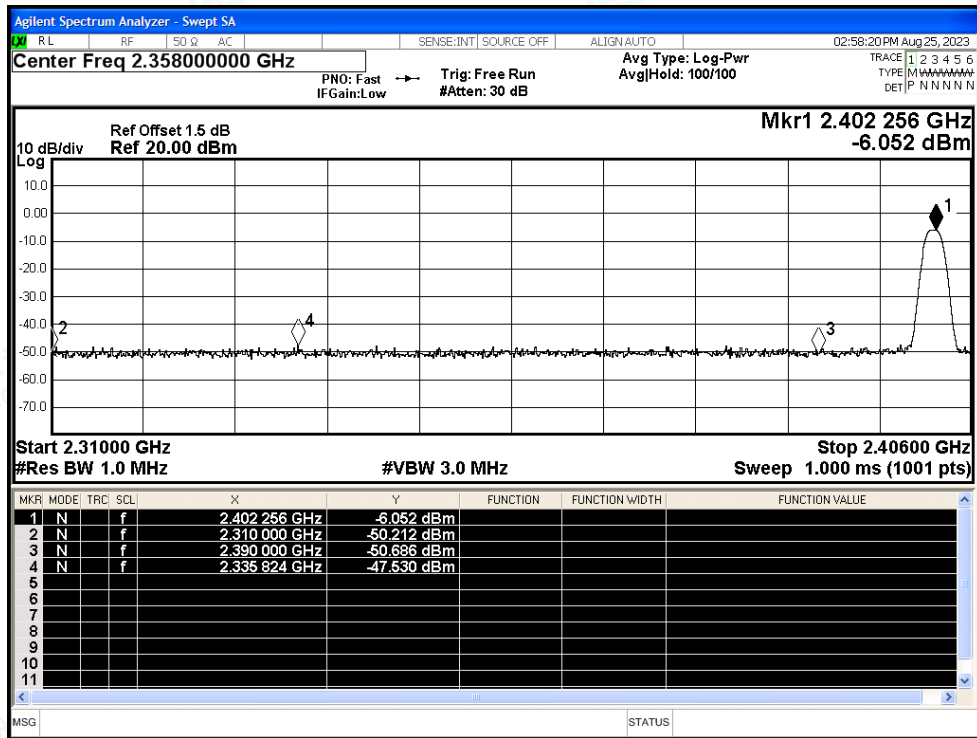
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-50.21	2	47.05	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-60.51	2	36.75	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2335.824	-47.53	2	49.73	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2387.088	-59.78	2	37.48	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.69	2	46.57	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-60.01	2	37.25	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.12	2	49.14	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-59.03	2	38.23	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2494.288	-47.02	2	50.24	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.512	-59.03	2	38.23	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.91	2	47.35	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-60.22	2	37.04	Average	54	Pass



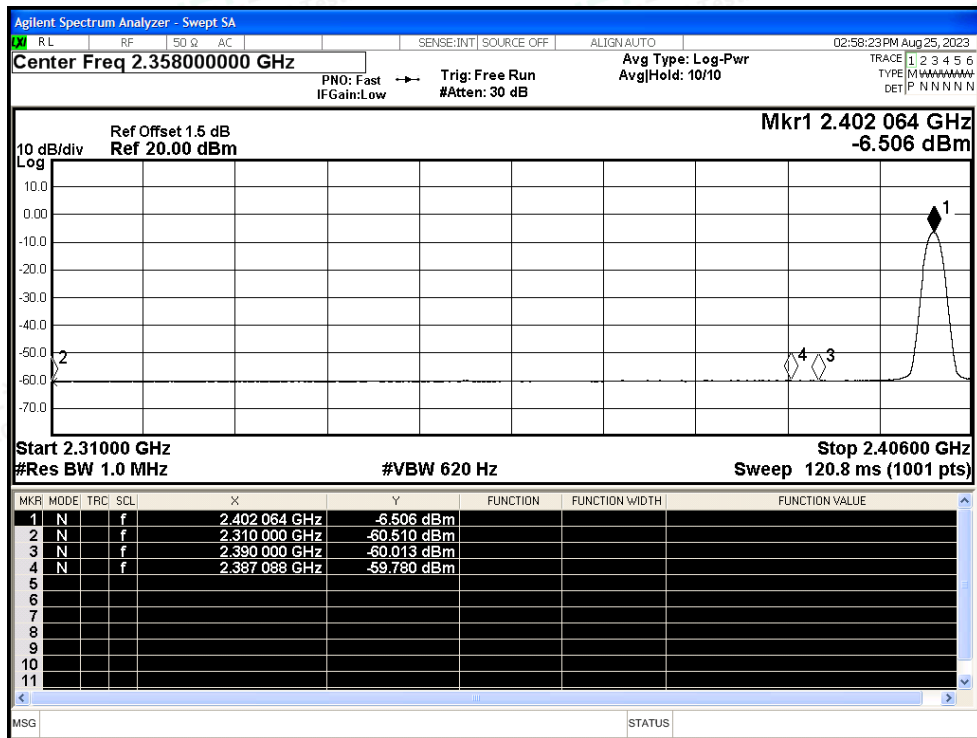


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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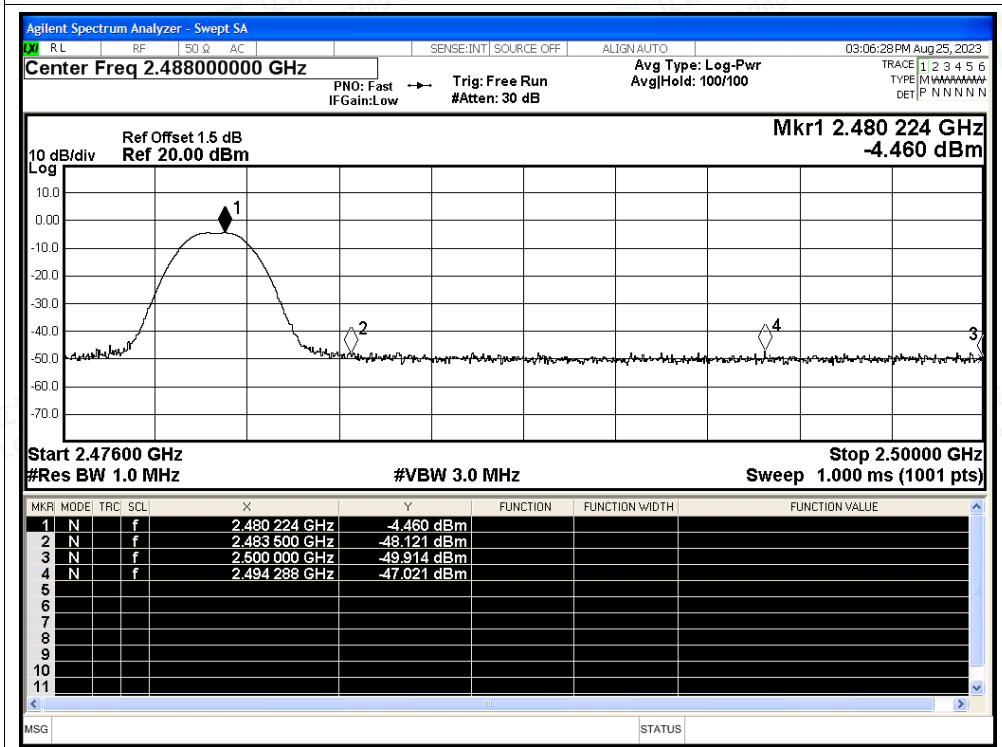
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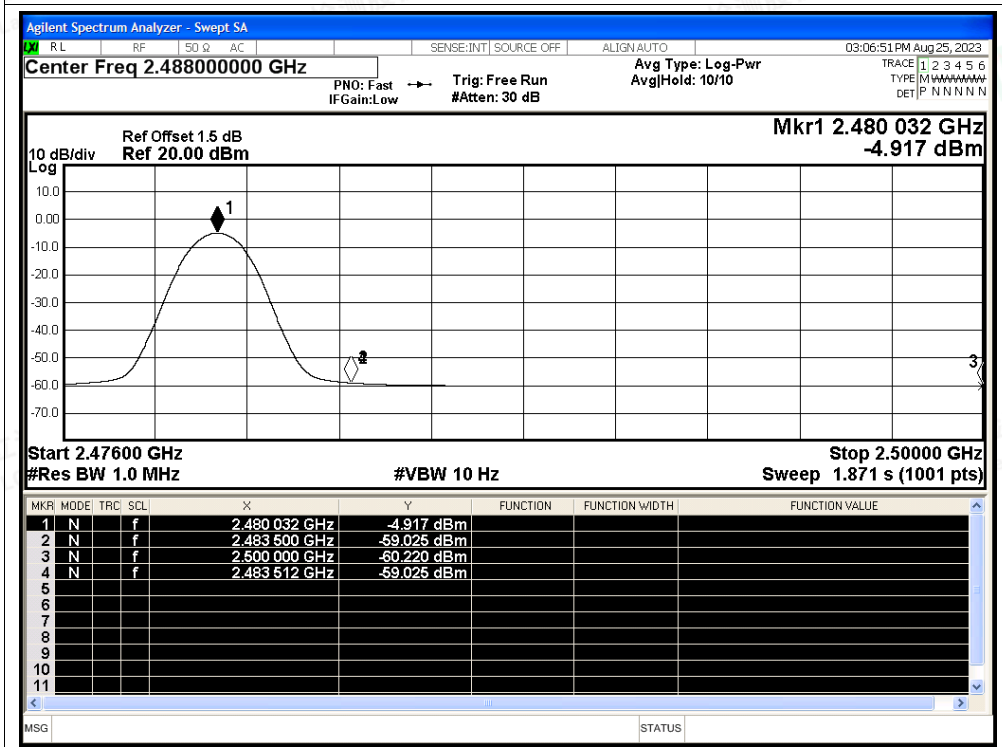
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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