



Appendix B

RF Test Data for BT LE(Conducted Measurement)

Product Name: Yamaha JetBlaster Speaker

Test Model: GDI-YMHF5P01

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng



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B.1 -6dB Bandwidth

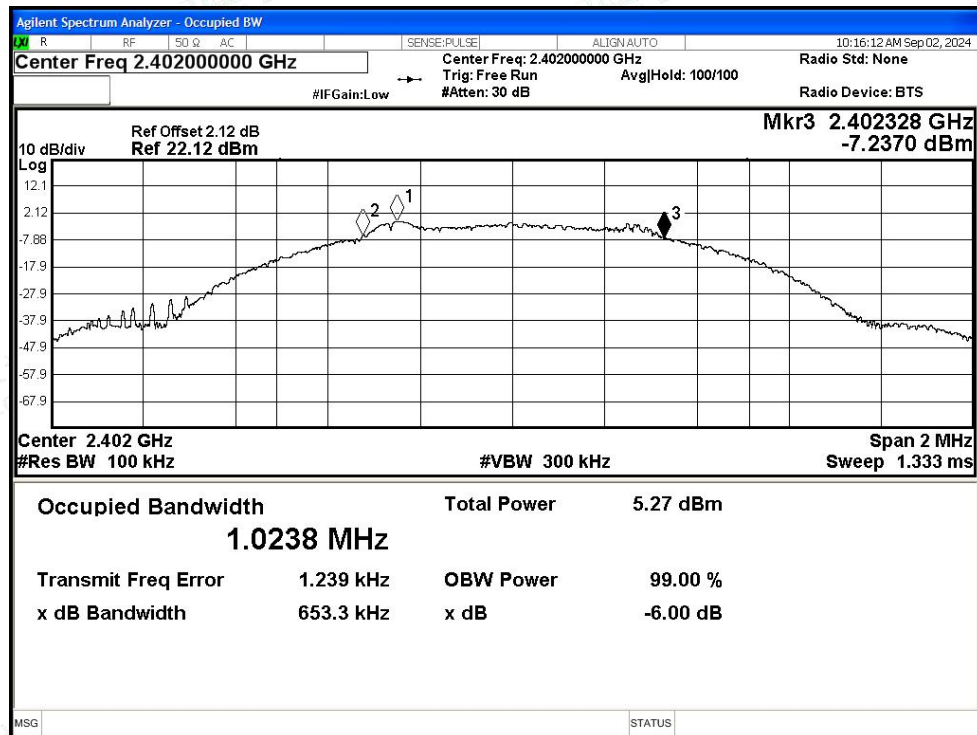
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.653	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.661	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.656	≥ 0.5	Pass



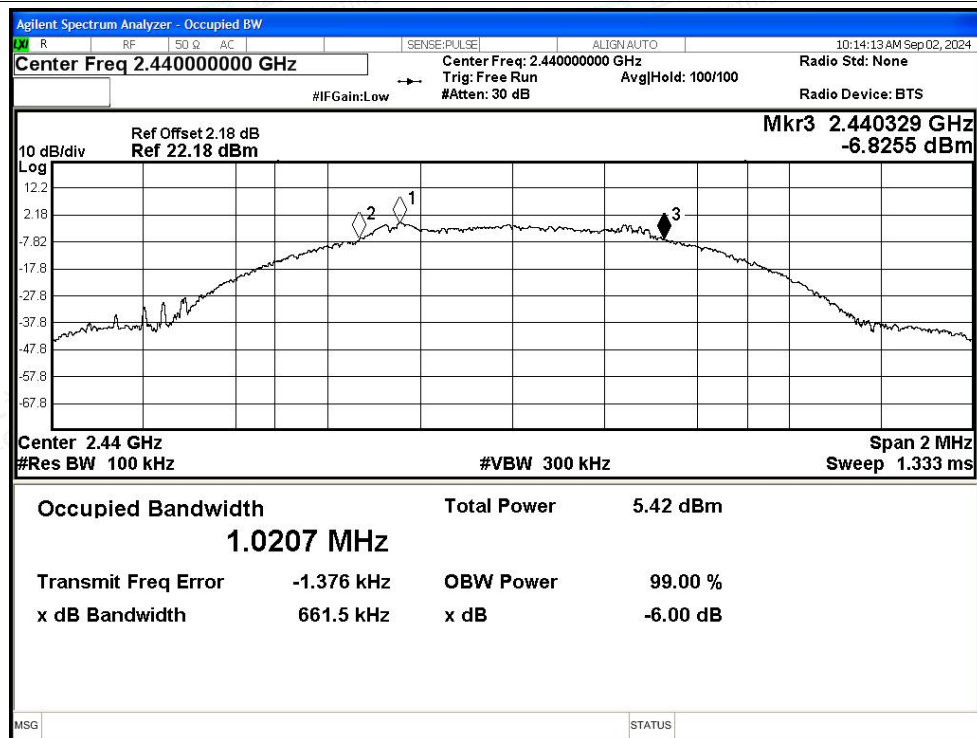


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

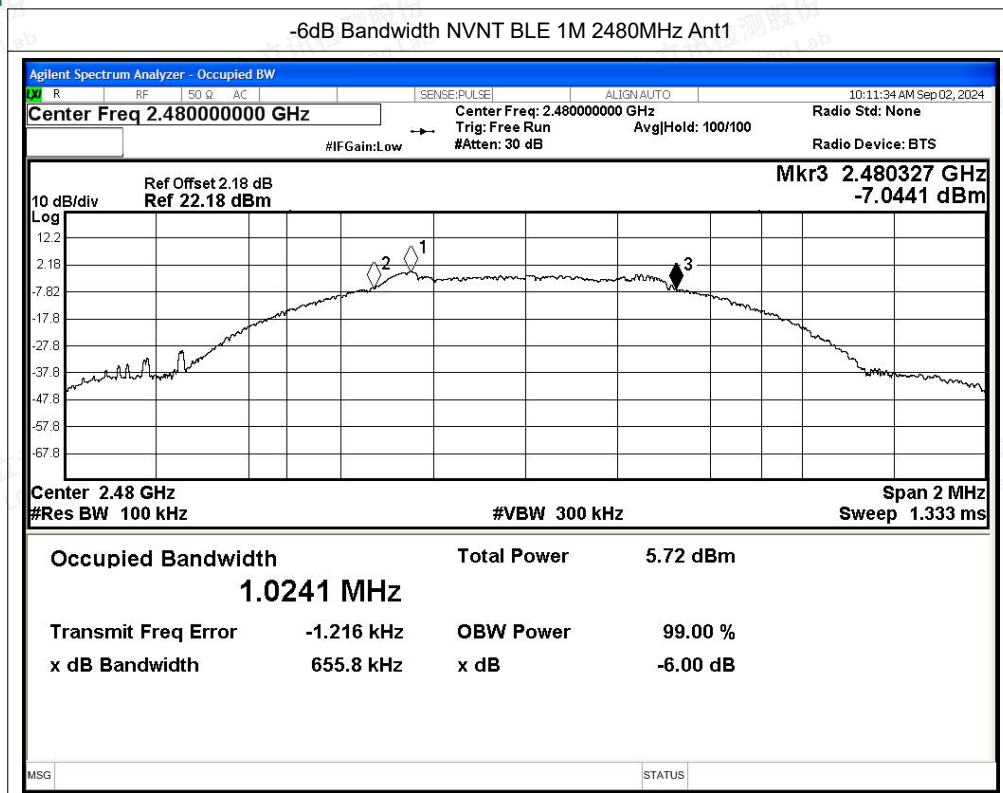


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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.61	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.38	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.15	30	Pass



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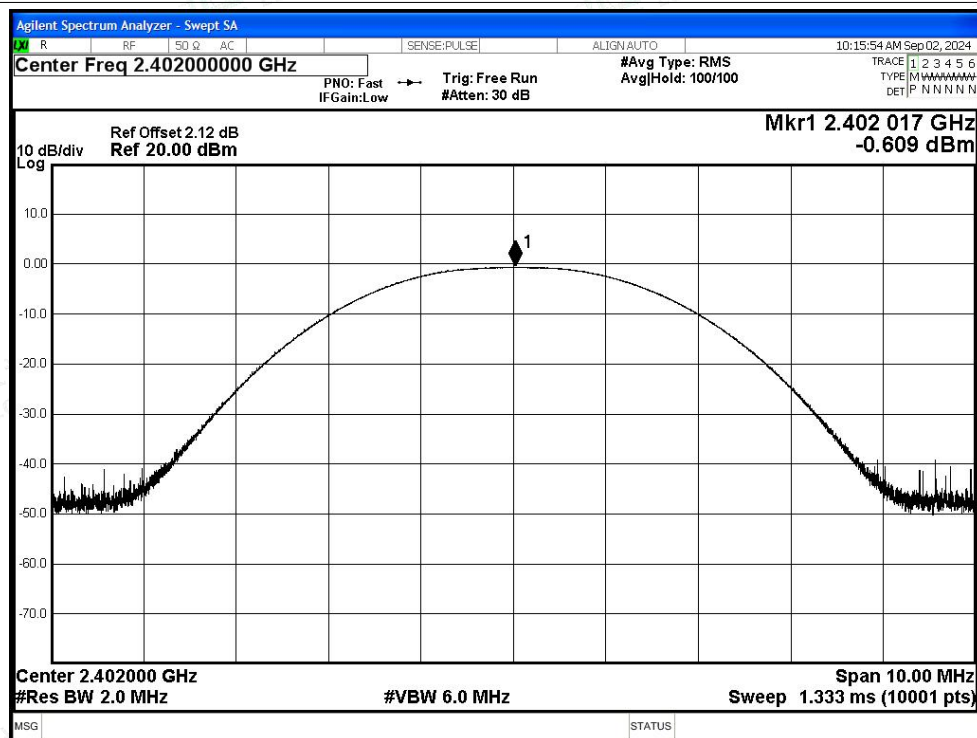
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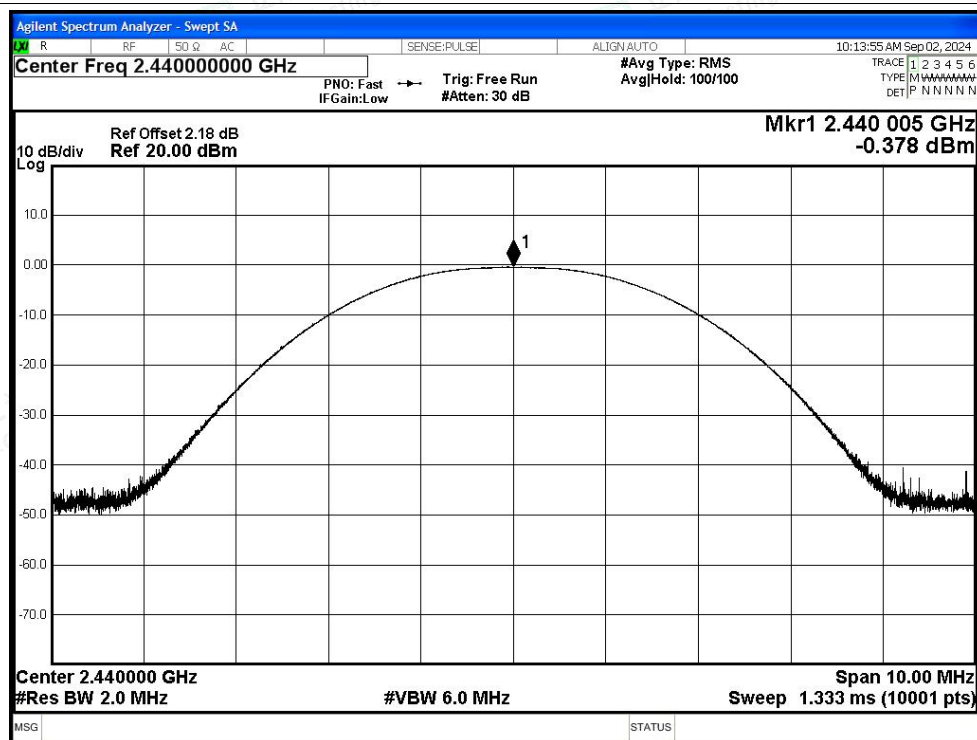


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

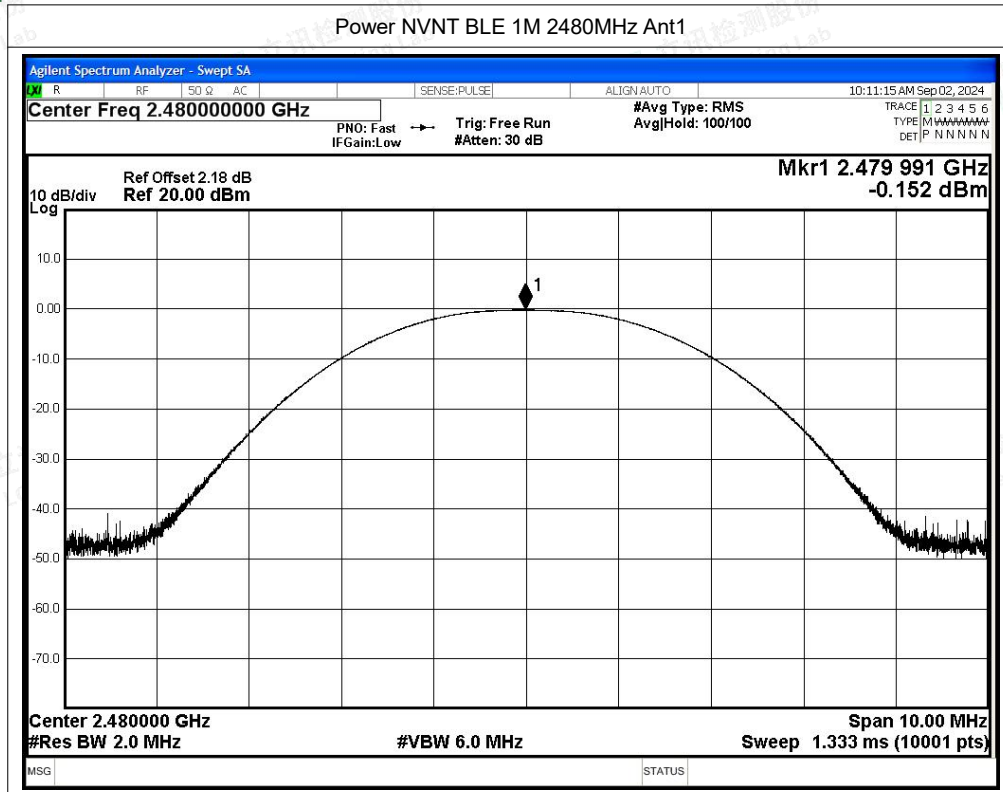


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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-17.49	8	Pass
NVNT	BLE 1M	2440	Ant1	-17.1	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.76	8	Pass



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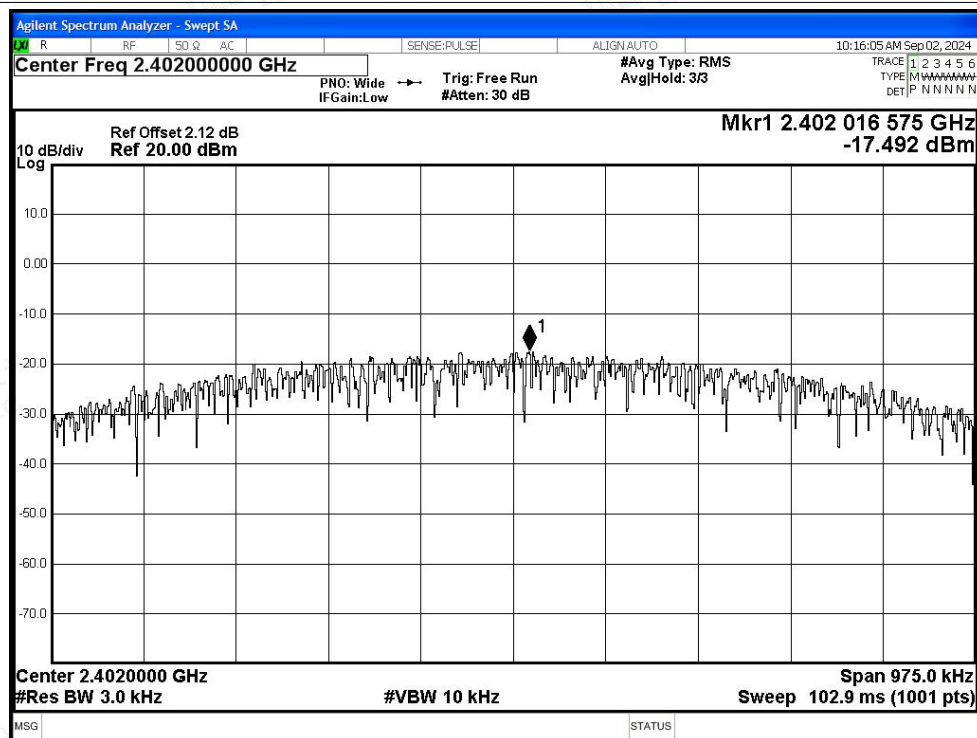
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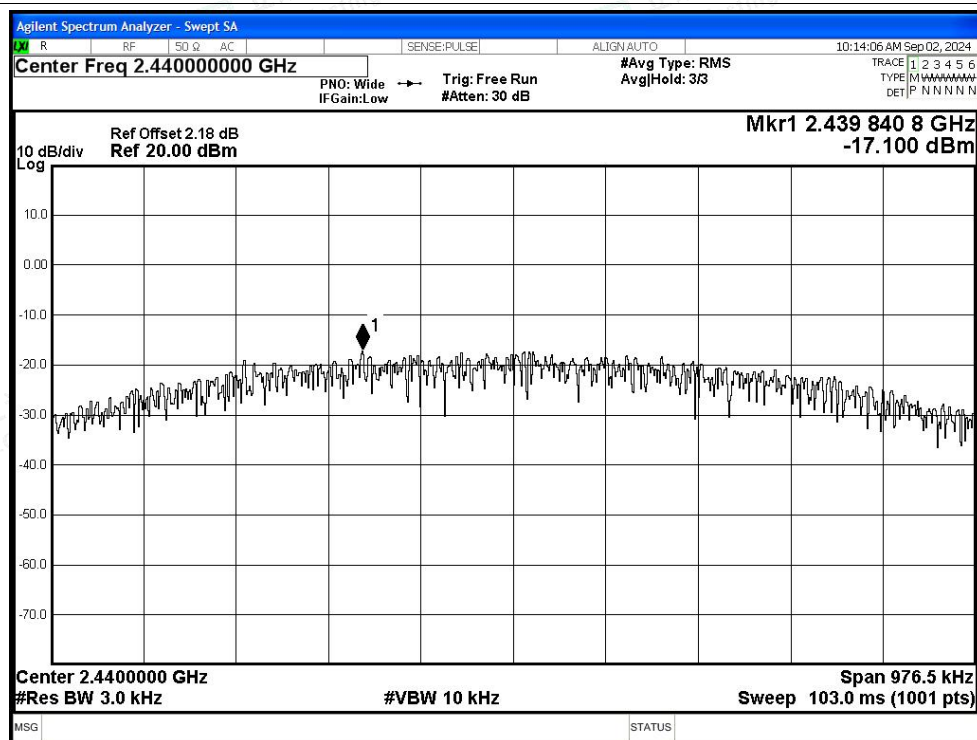


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

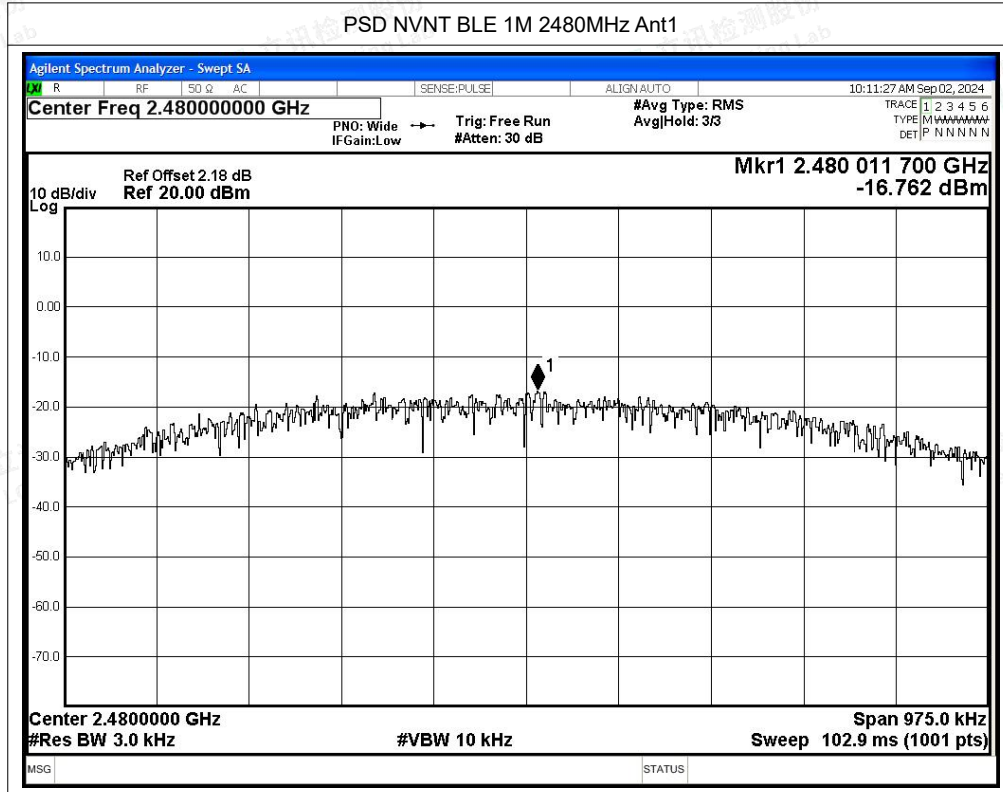


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B.4 Band Edge

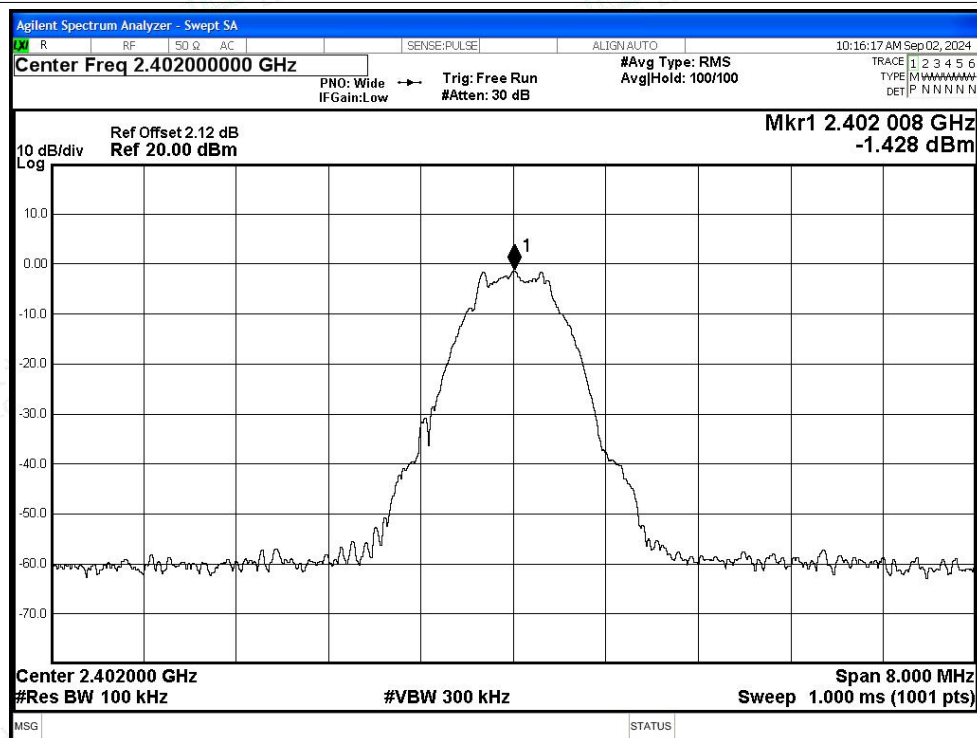
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.47	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.73	-20	Pass



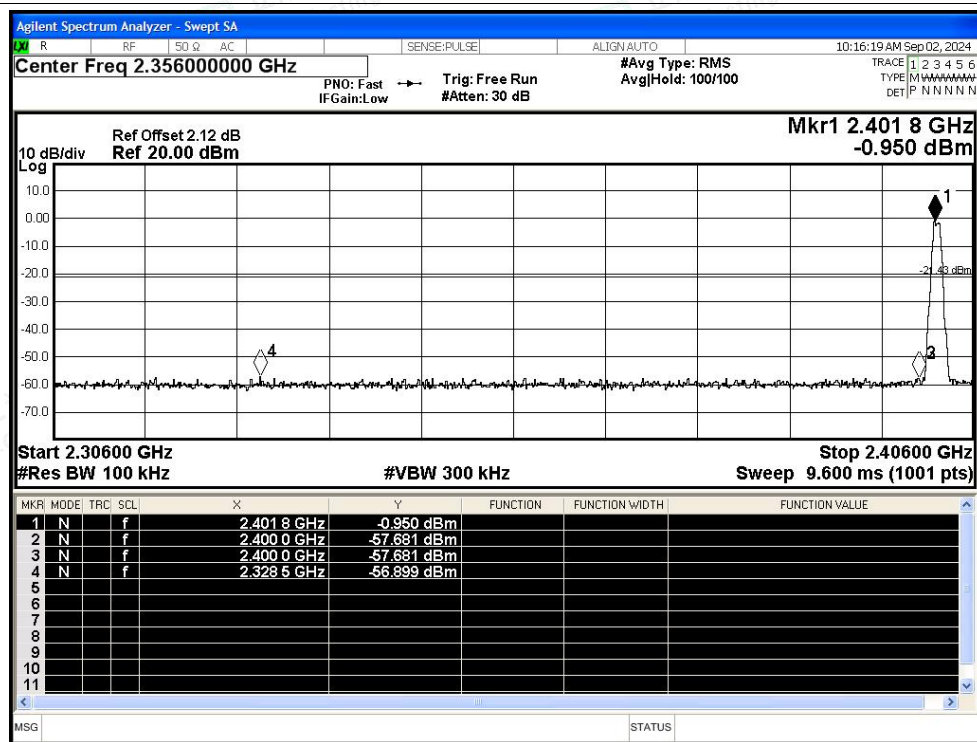


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

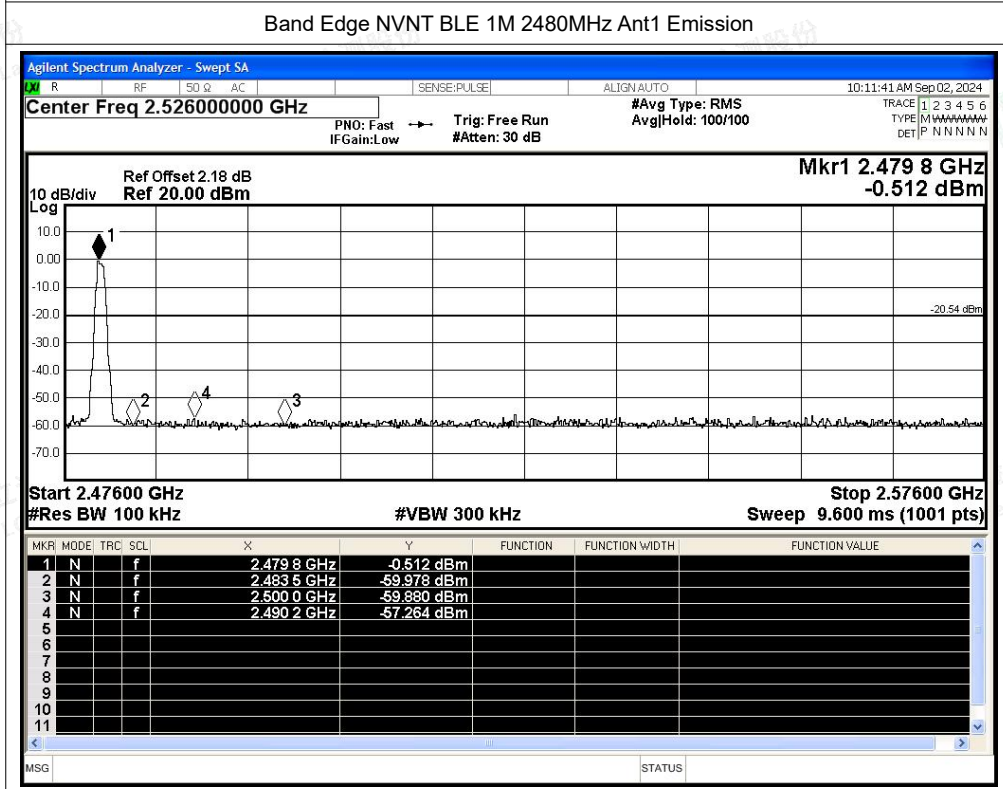
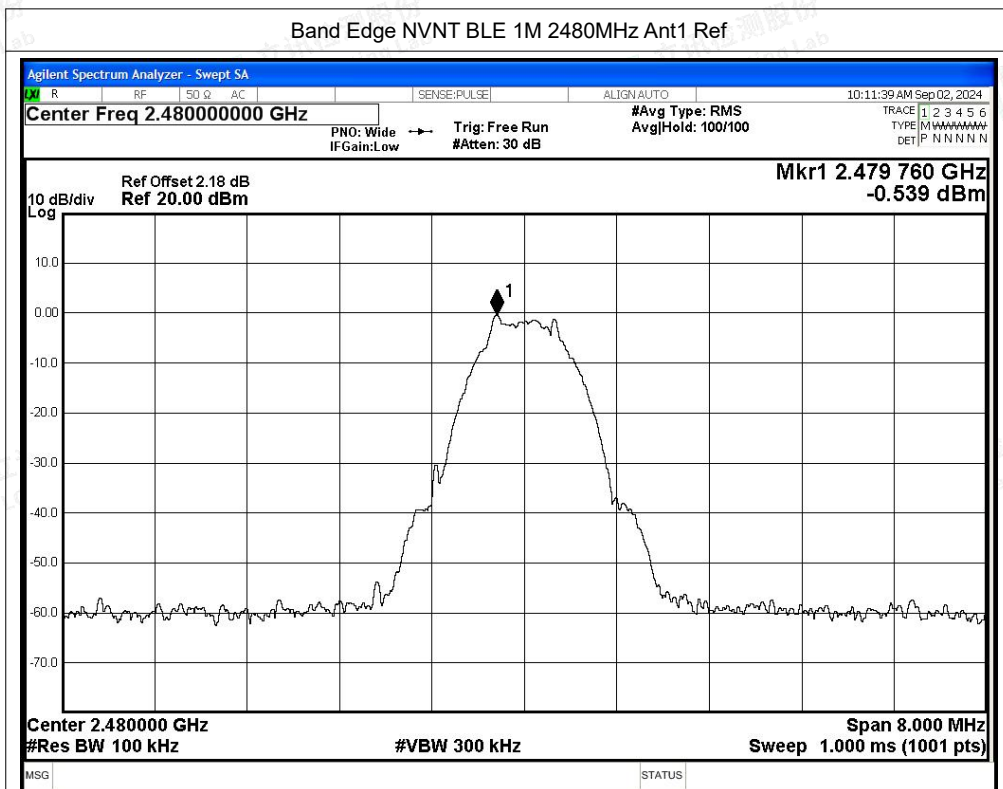


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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.47	-20	Pass
NVNT	BLE 1M	2440	Ant1	-53.74	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.84	-20	Pass

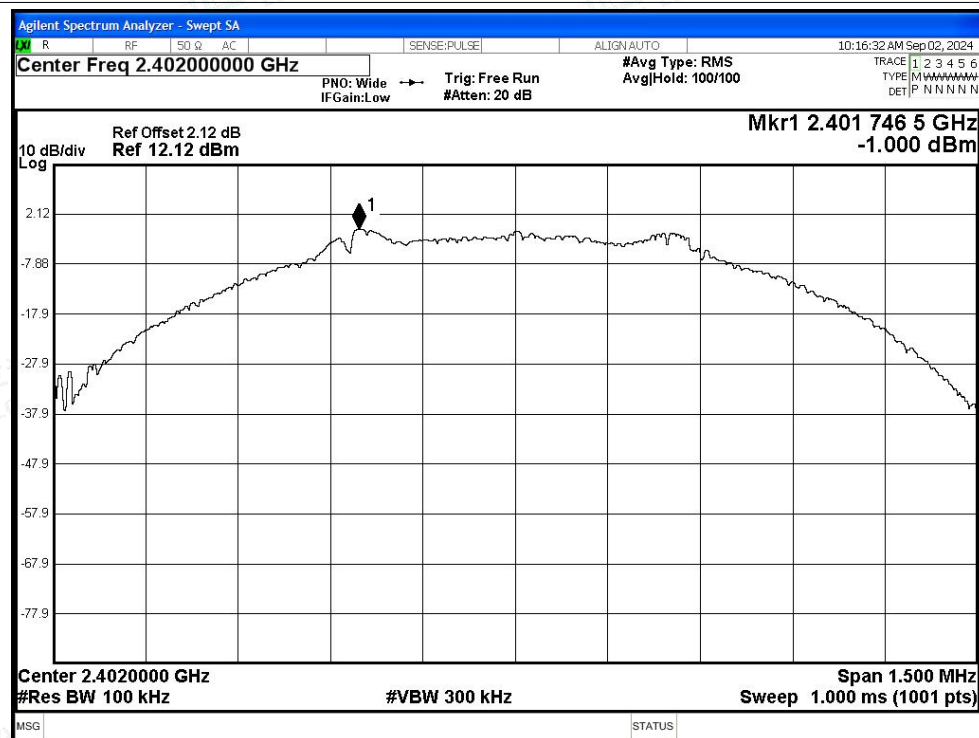


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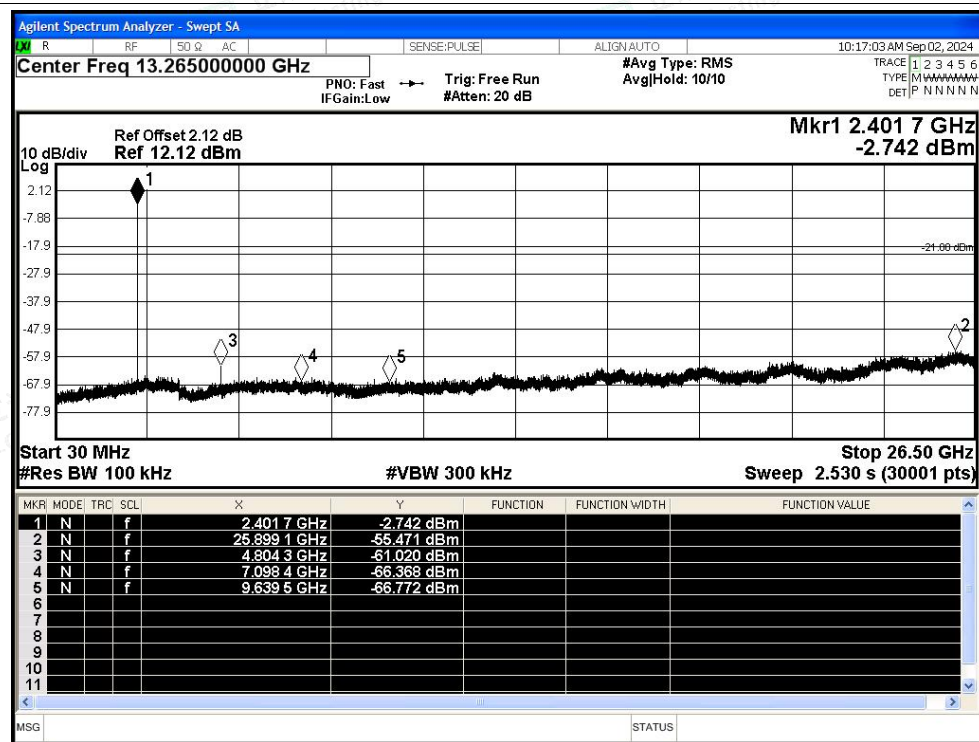


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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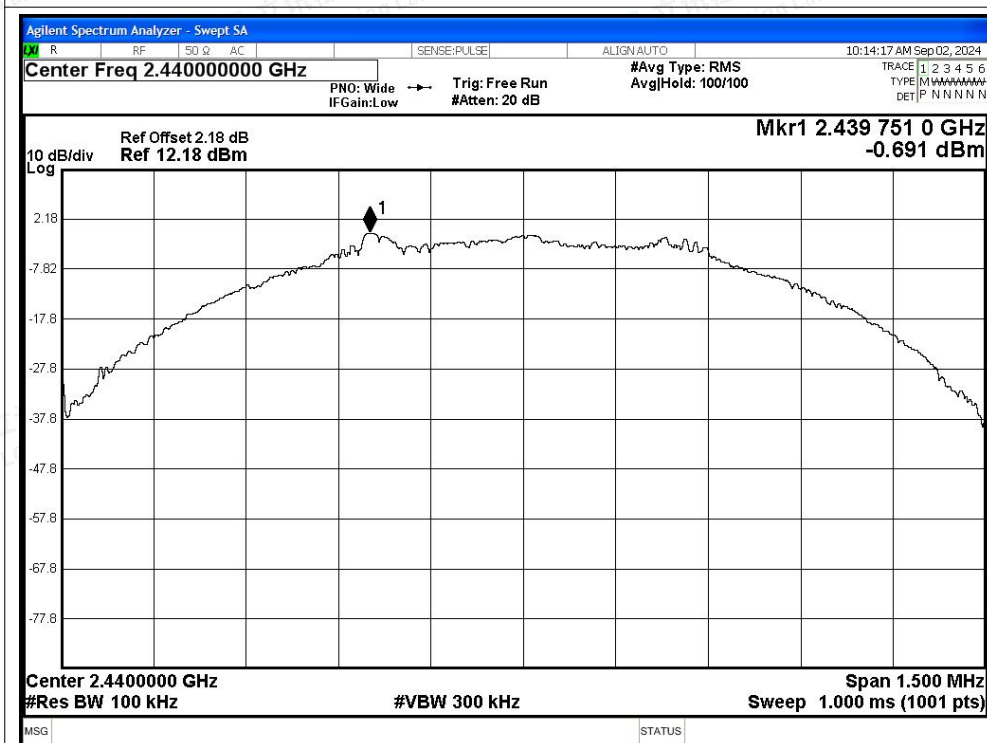
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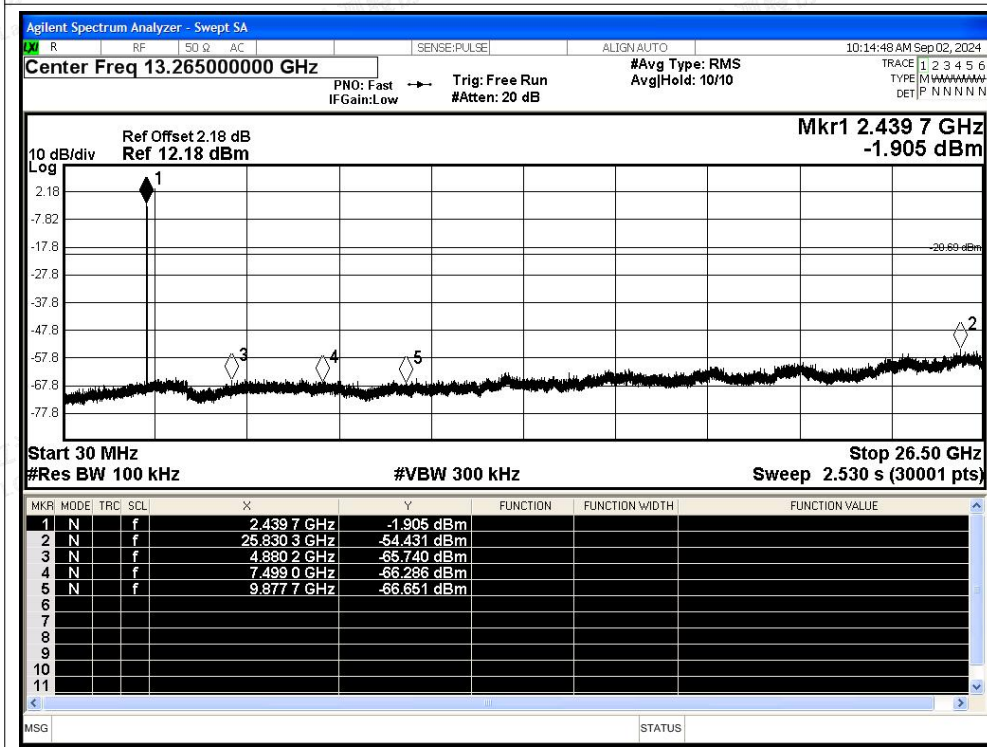
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

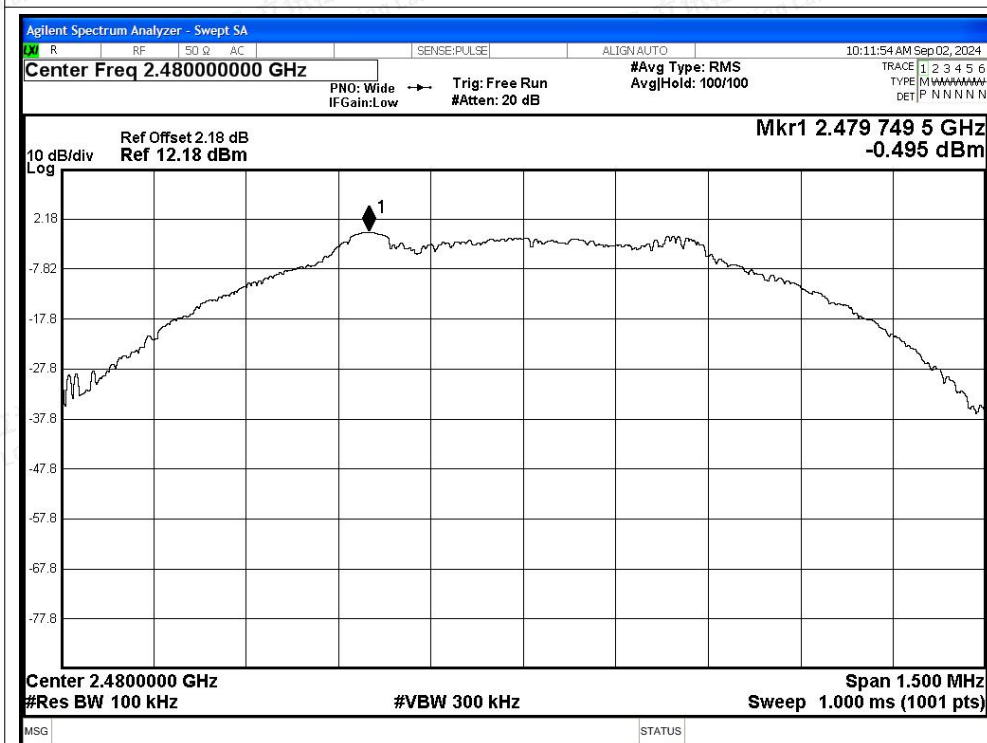
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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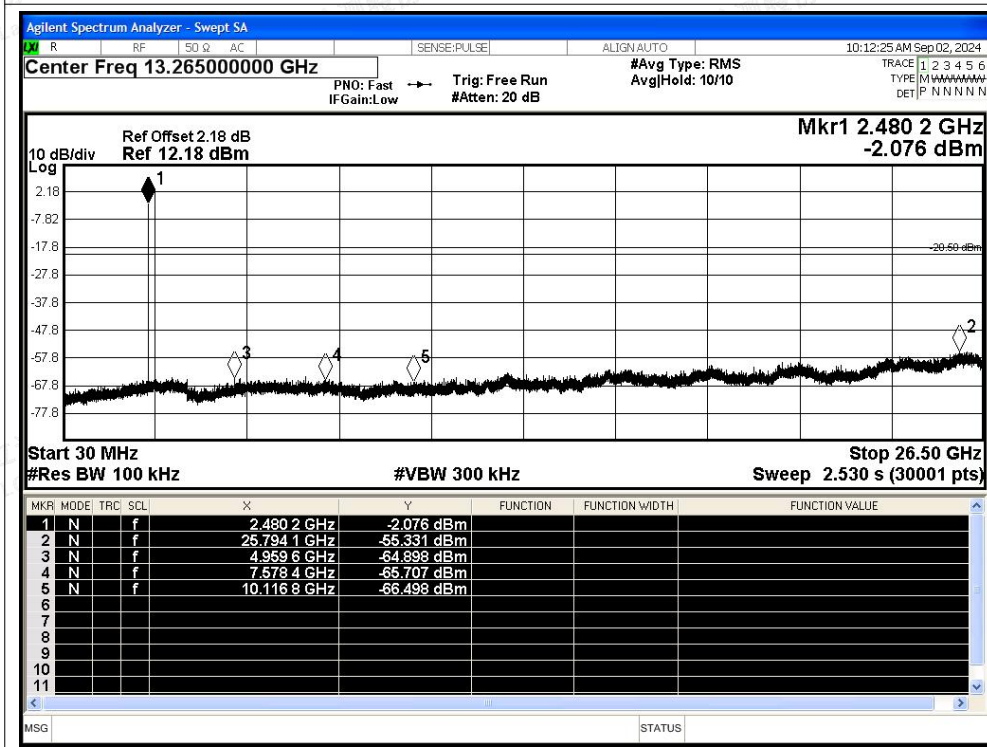
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



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

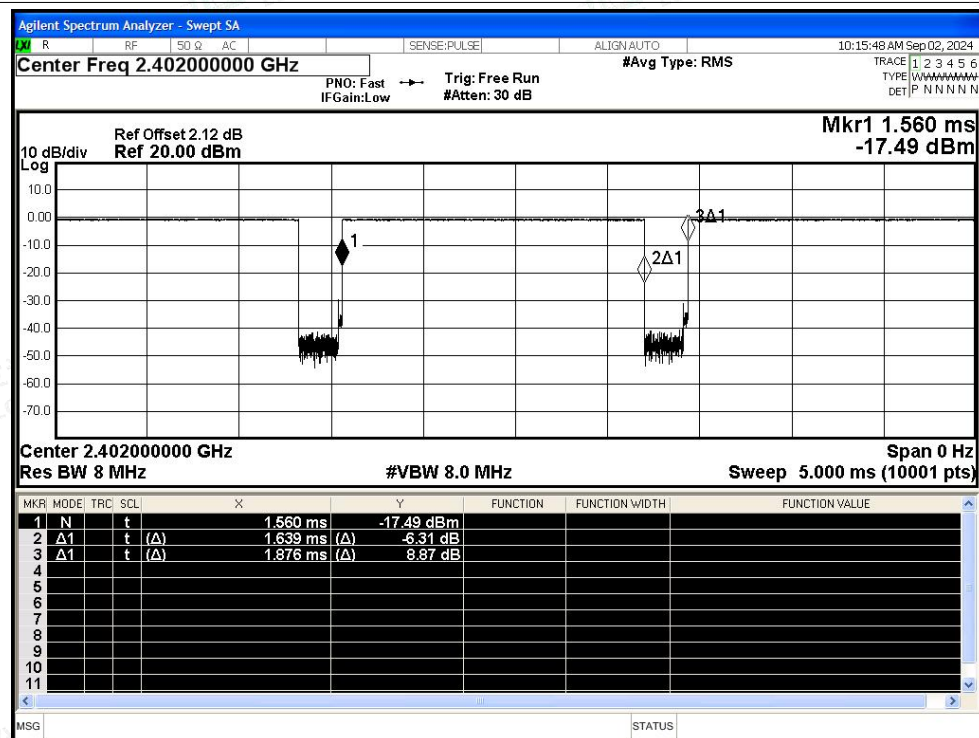


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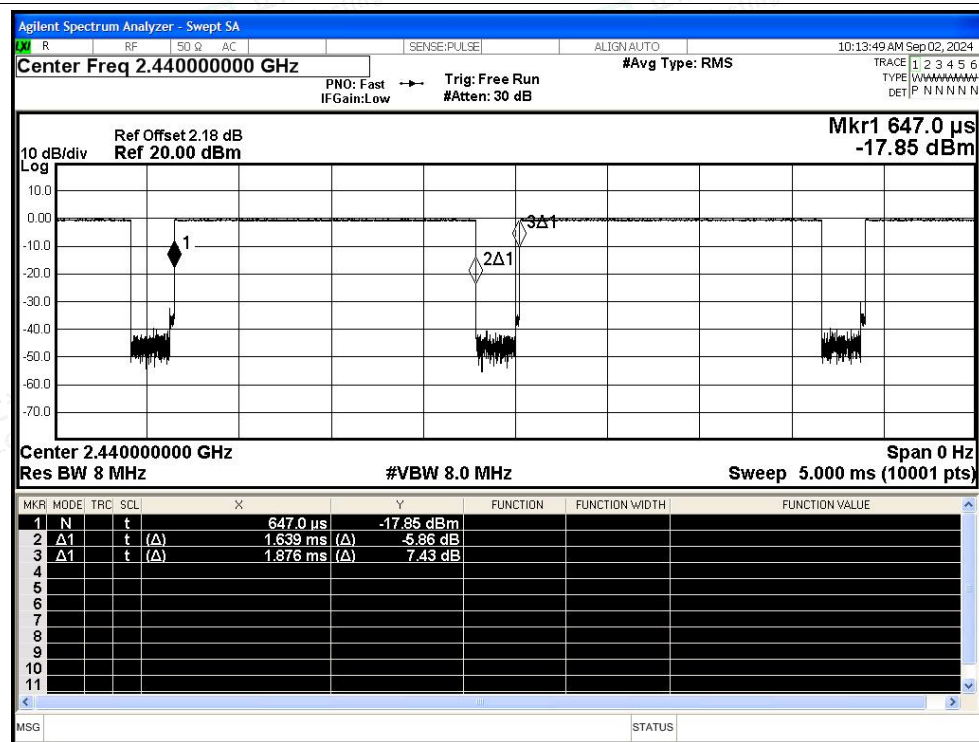


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

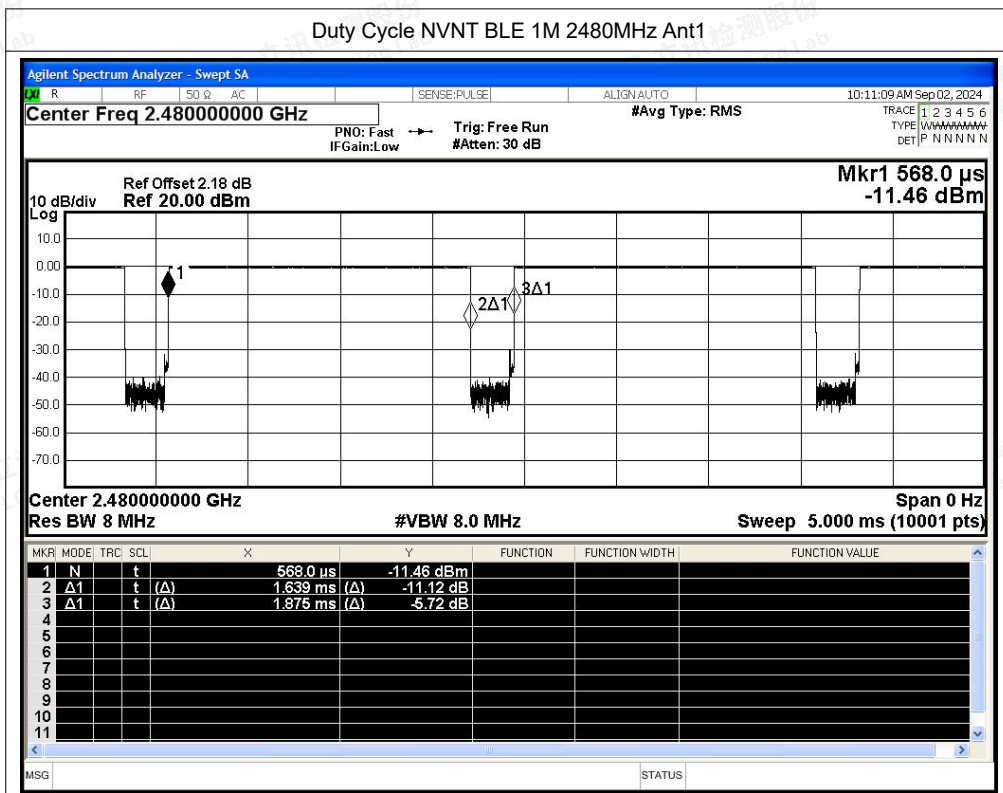


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B.7 Restrict Band

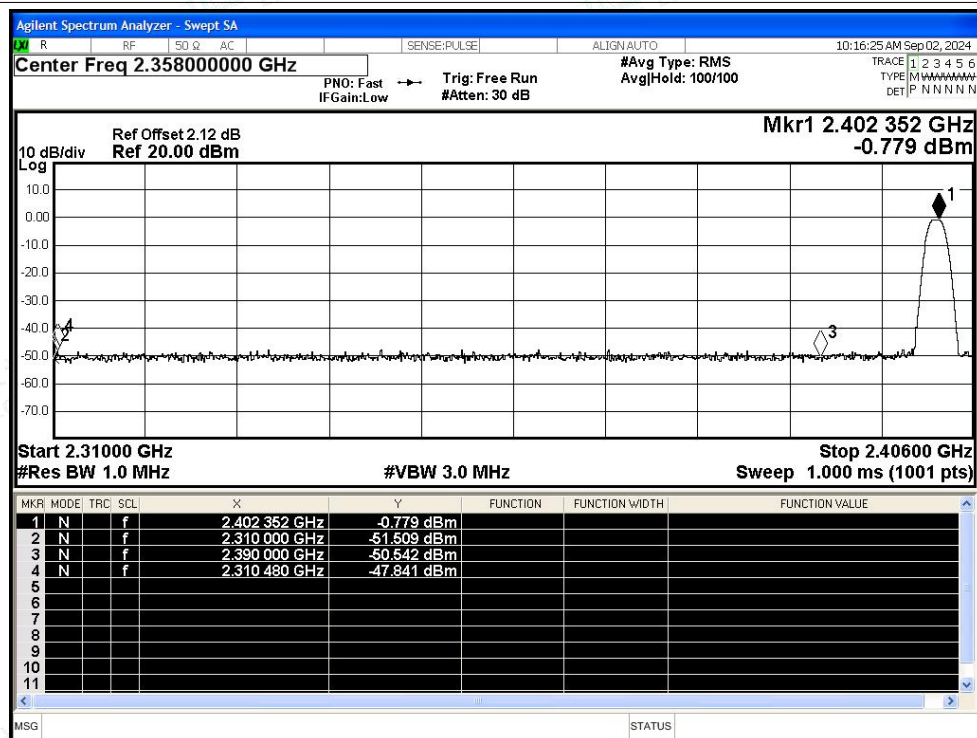
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.51	3.53	-	47.28	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.53	3.53	0.59	40.85	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2310.48	-47.84	3.53	-	50.95	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2373.552	-57.39	3.53	0.59	41.99	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.54	3.53	-	48.25	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-57.56	3.53	0.59	41.82	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.9	3.53	-	49.89	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.22	3.53	0.59	42.16	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2484.928	-46.62	3.53	-	52.17	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2484.52	-57.17	3.53	0.59	42.21	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.35	3.53	-	48.44	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-57.57	3.53	0.59	41.81	Average	54	Pass



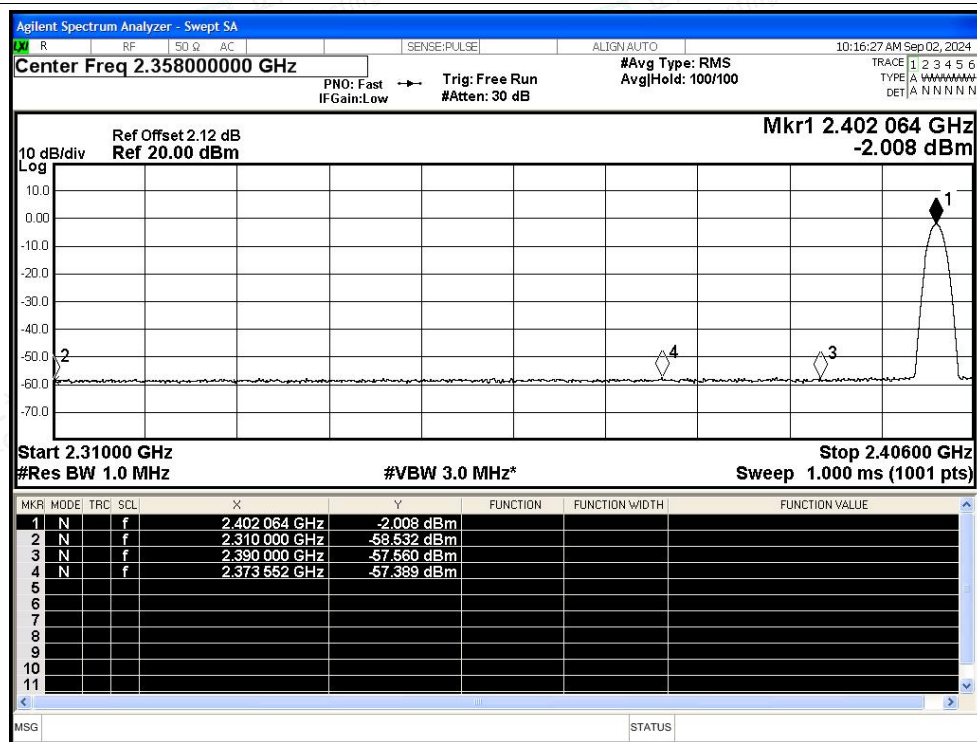


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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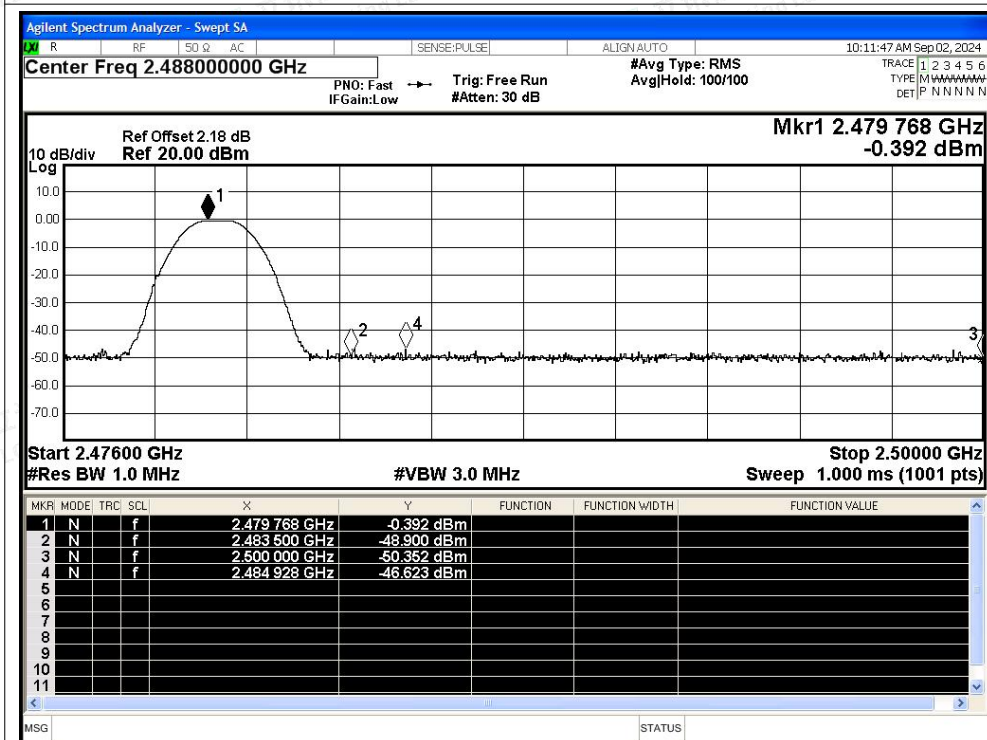
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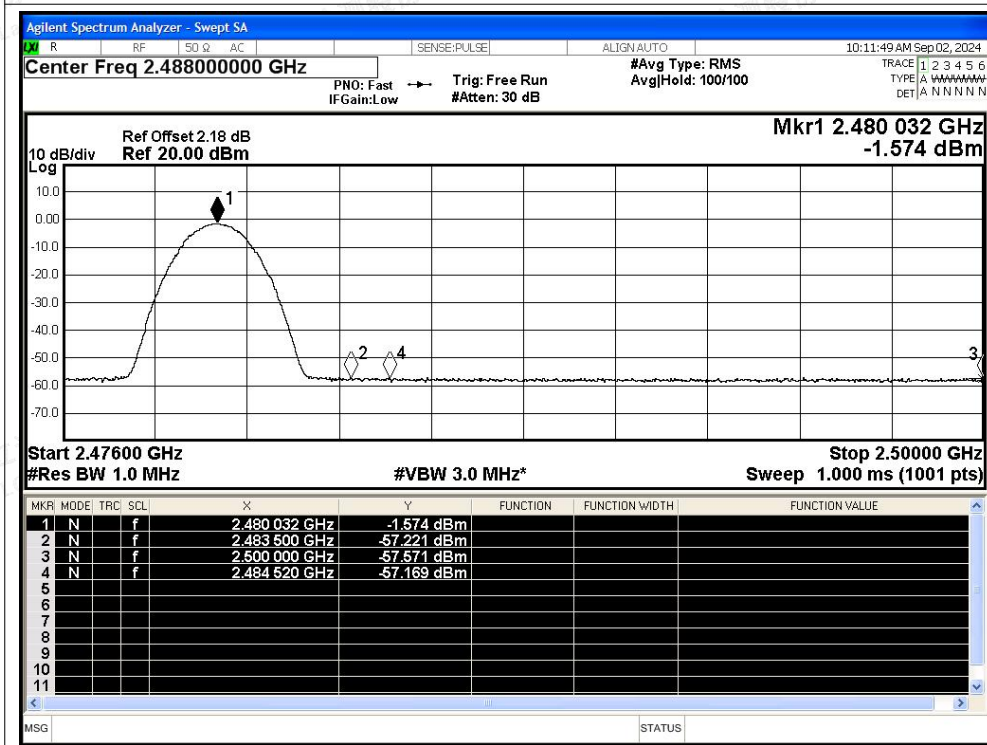
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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