



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: MINI PC

Test Model: MPC-3050

Environmental Conditions

Temperature:	24.4°C
Relative Humidity:	53.3%
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	0.667	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.668	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.652	≥ 0.5	Pass

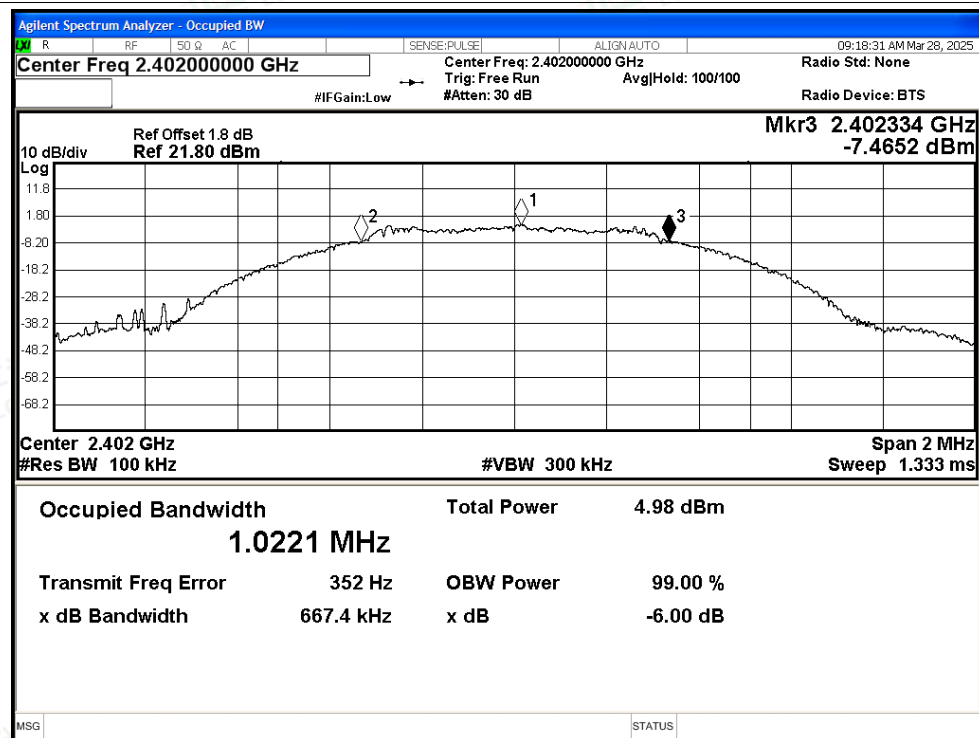


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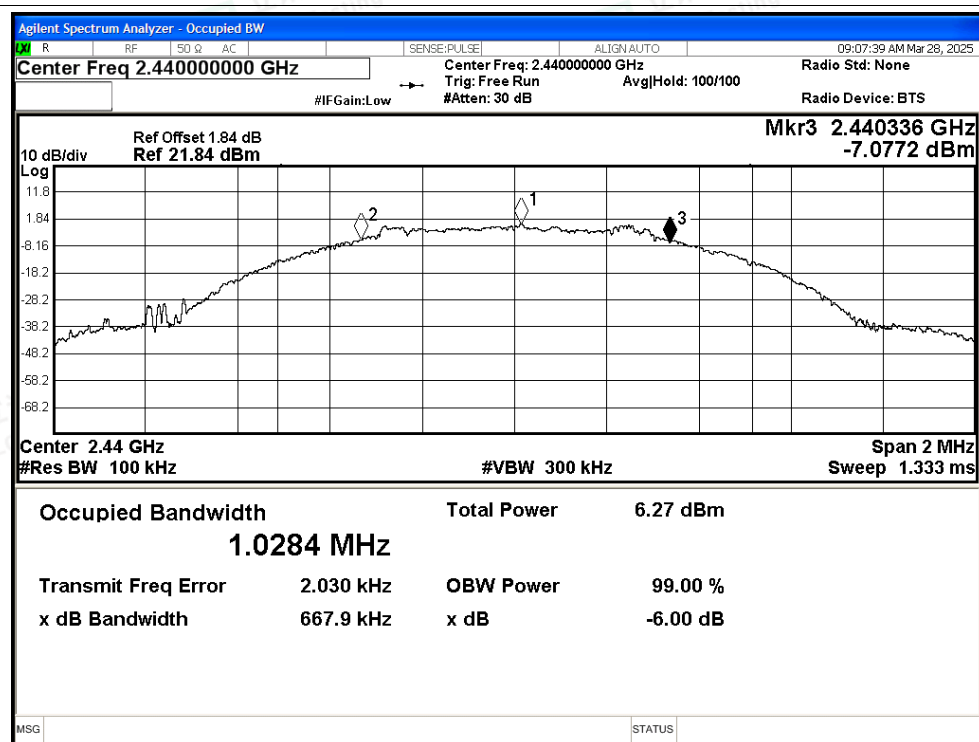


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

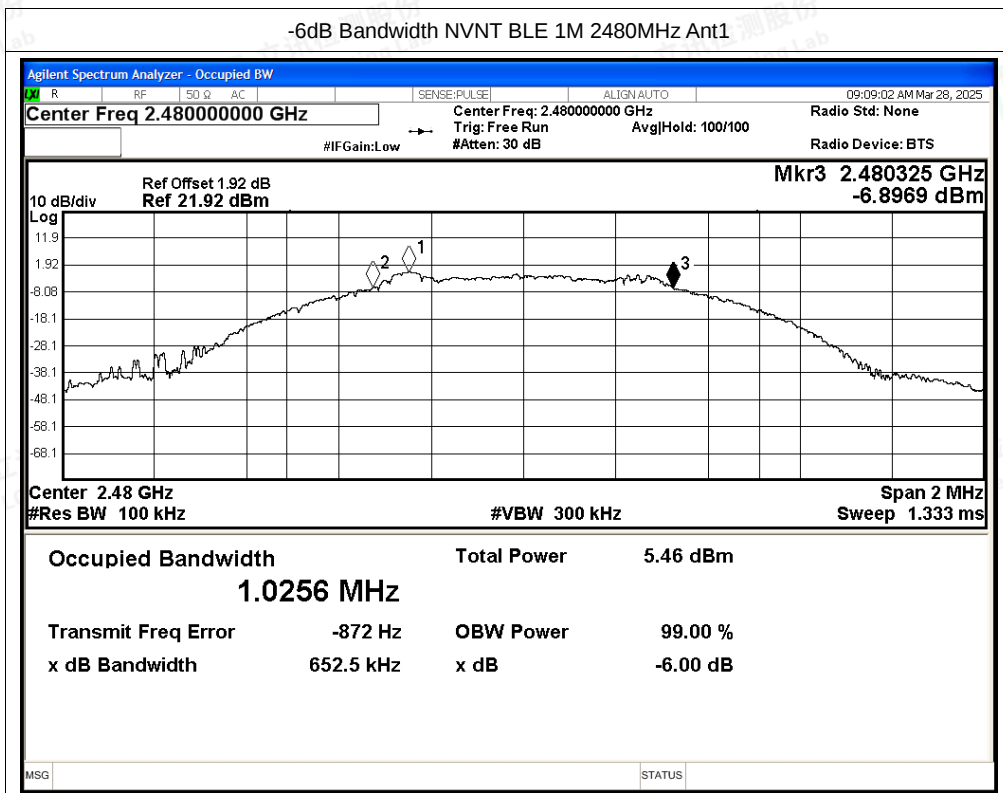


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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.75	30	Pass
NVNT	BLE 1M	2440	Ant1	0.72	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.32	30	Pass

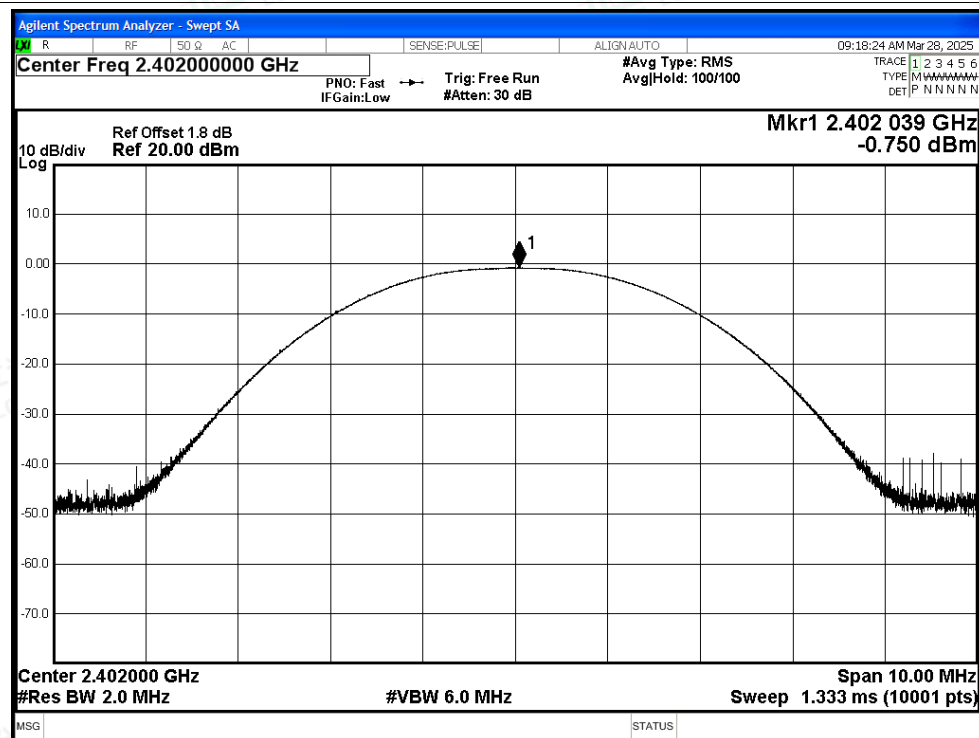


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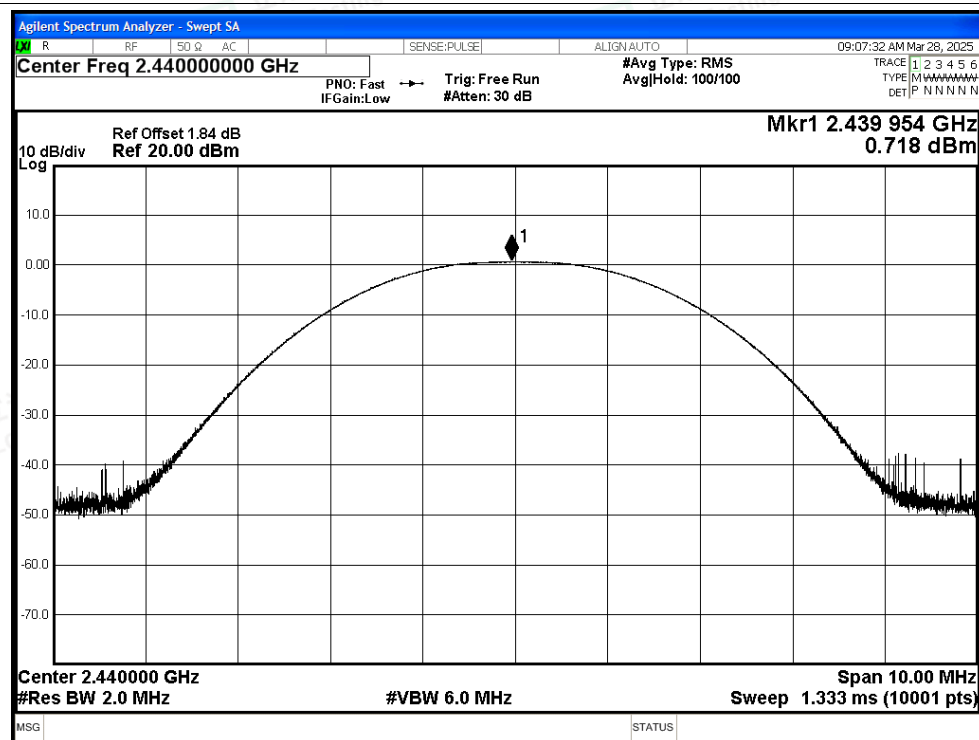


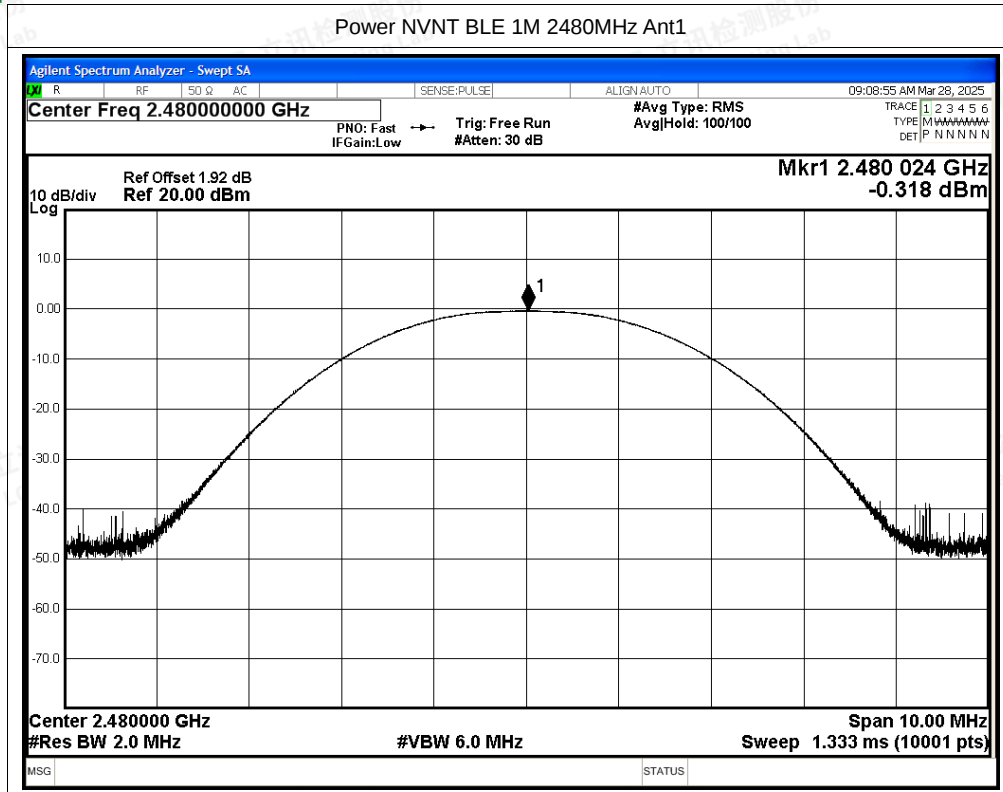
Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1







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	-17.4	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.89	8	Pass
NVNT	BLE 1M	2480	Ant1	-17.16	8	Pass

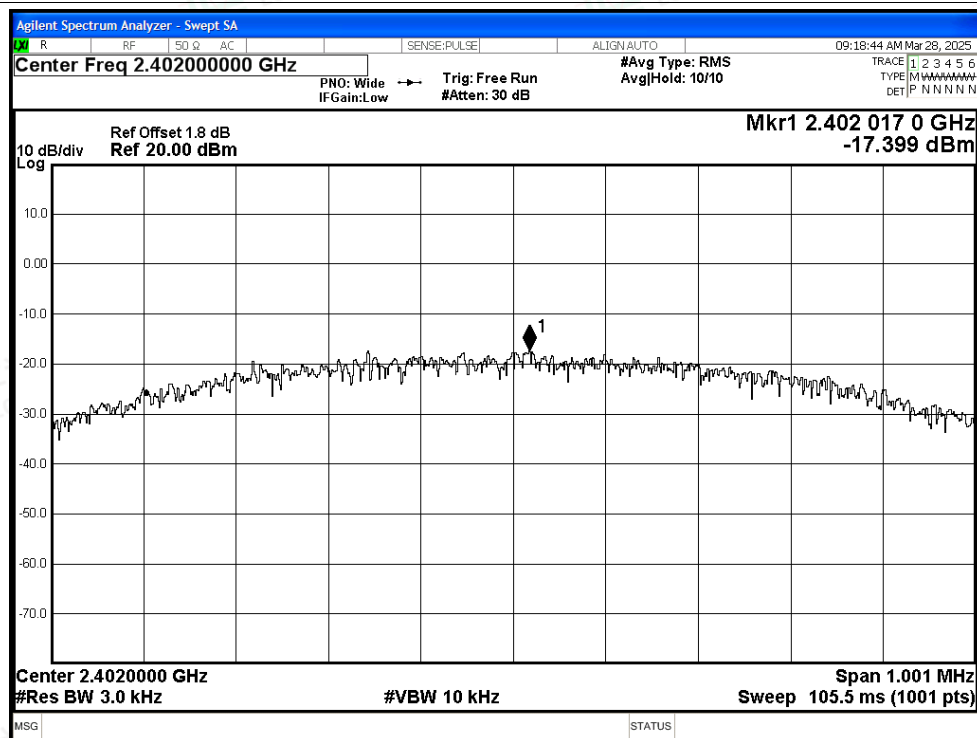


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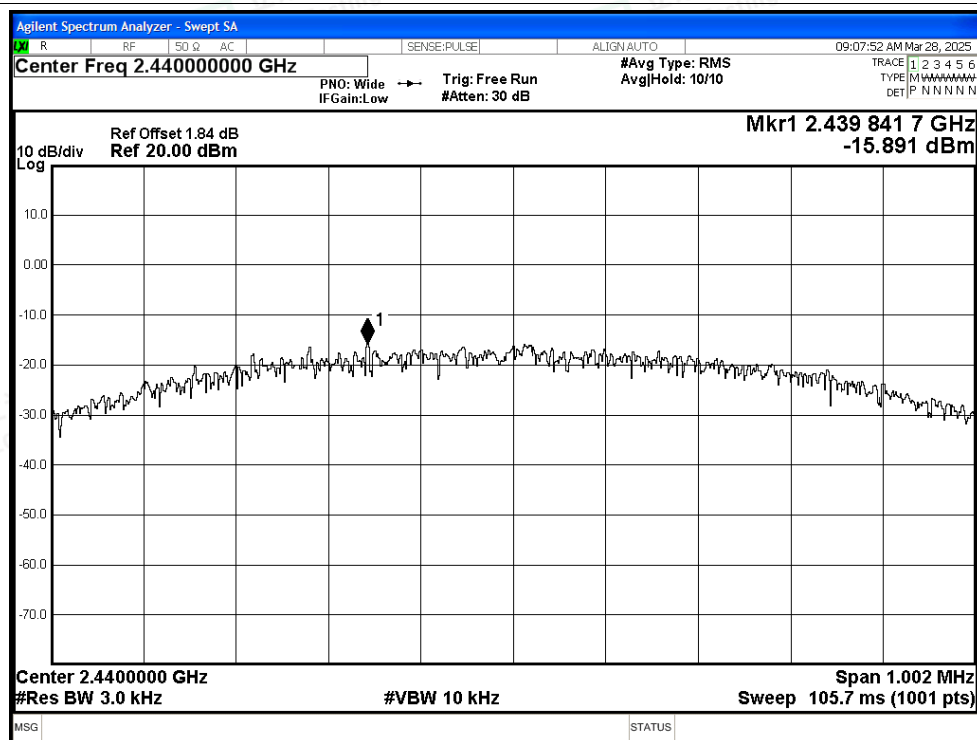


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

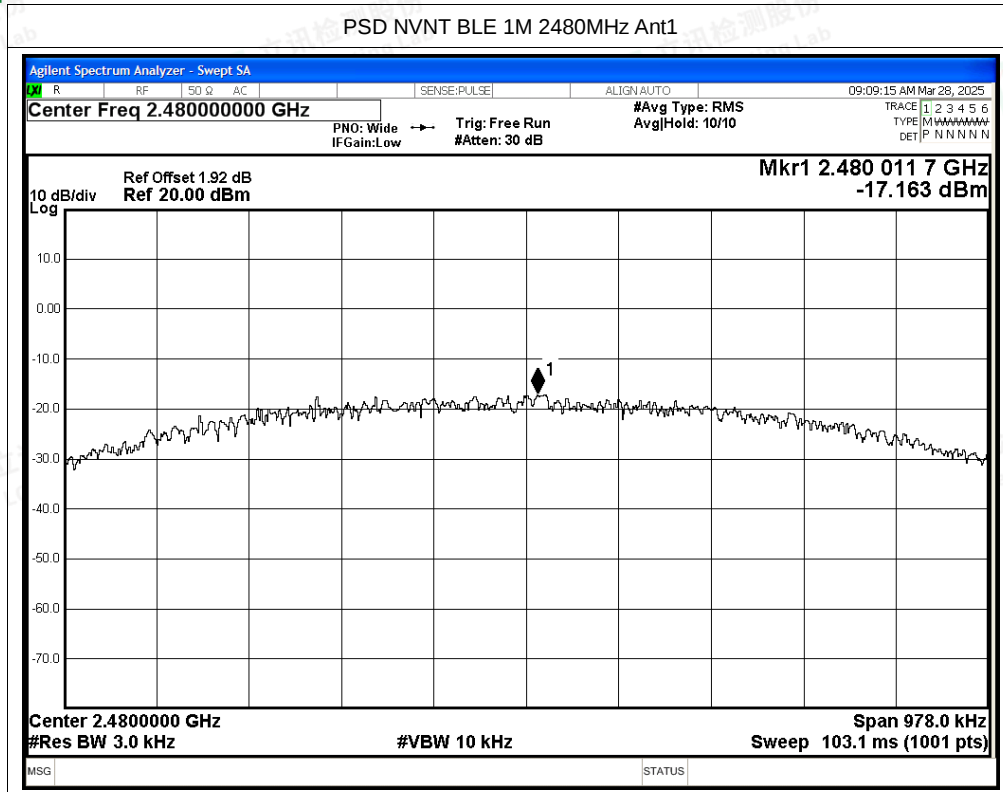


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-56.25	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.74	-20	Pass

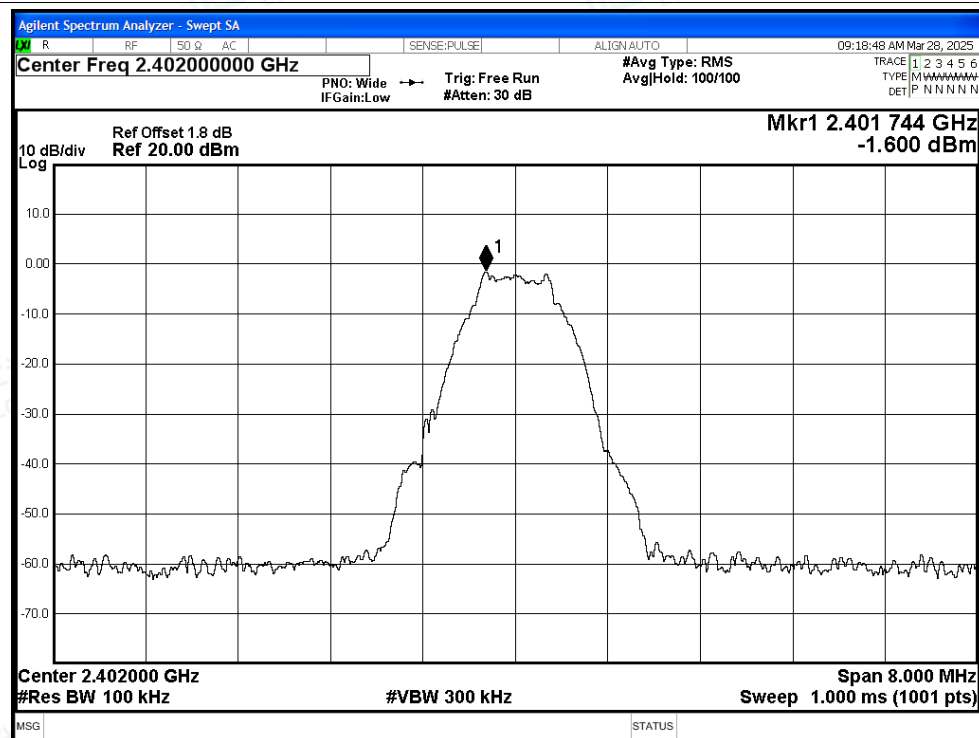


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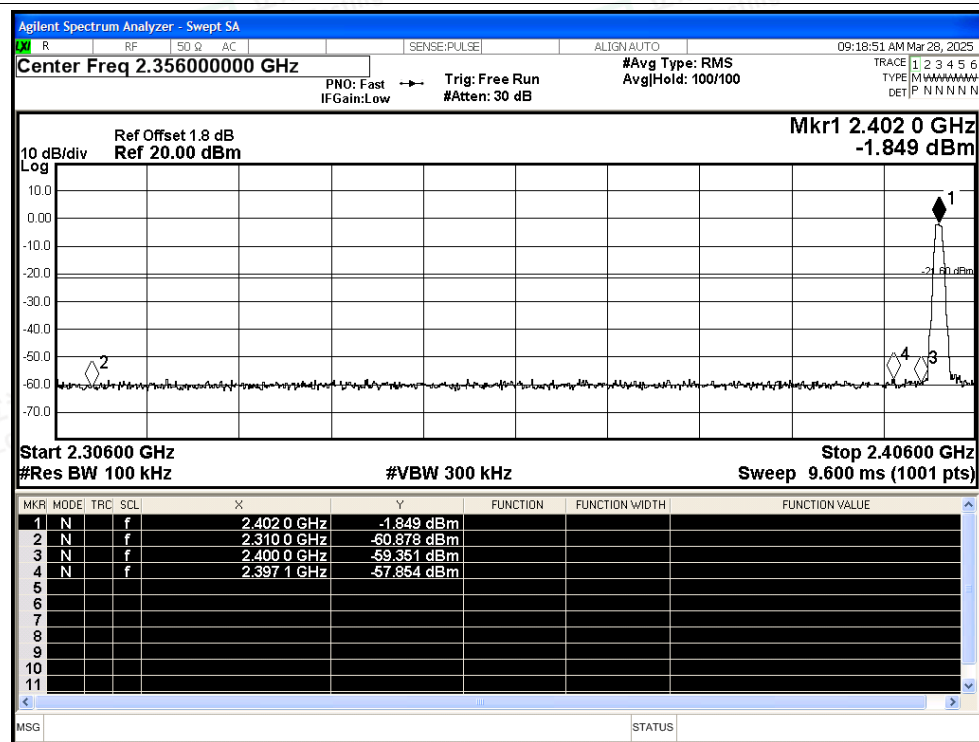


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

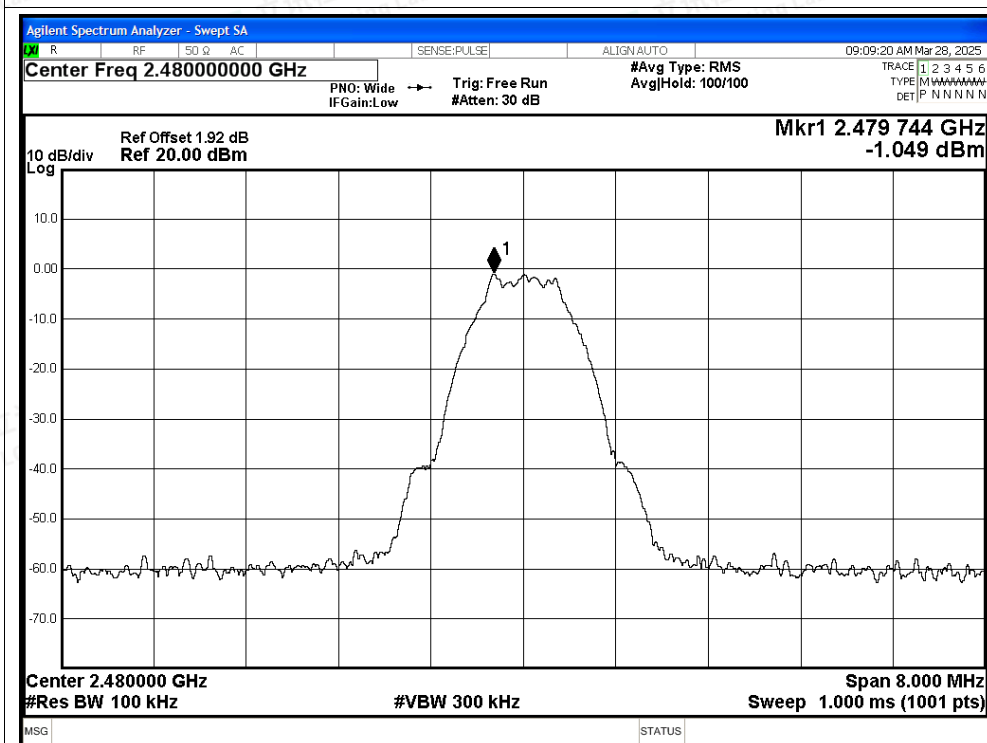
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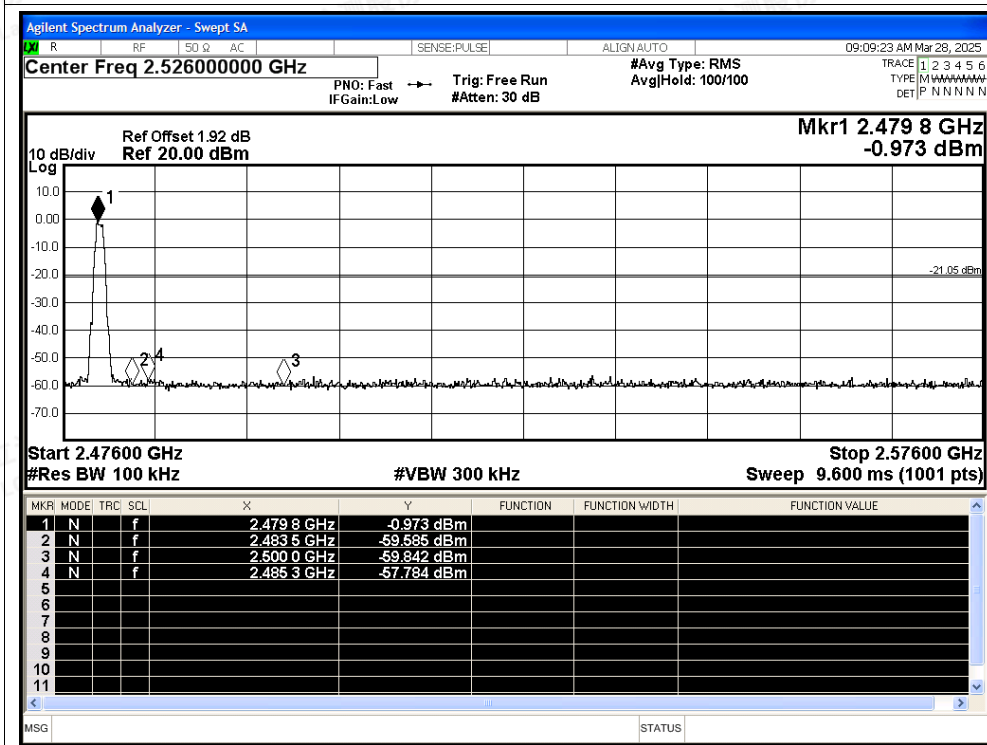
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



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	-54.34	-20	Pass
NVNT	BLE 1M	2440	Ant1	-55.96	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.63	-20	Pass

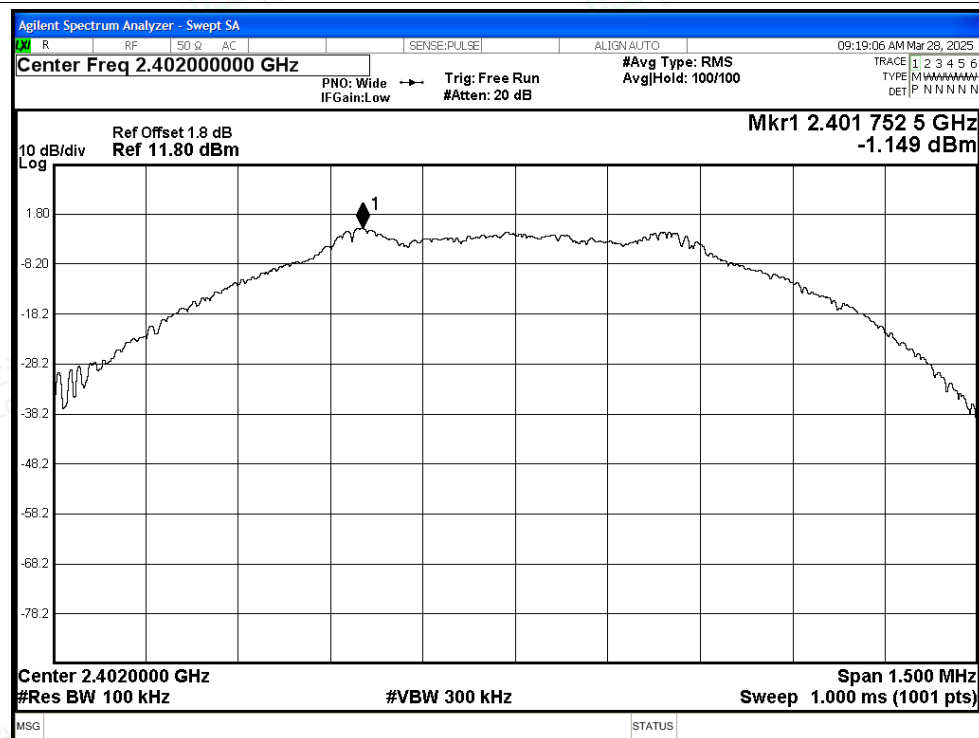


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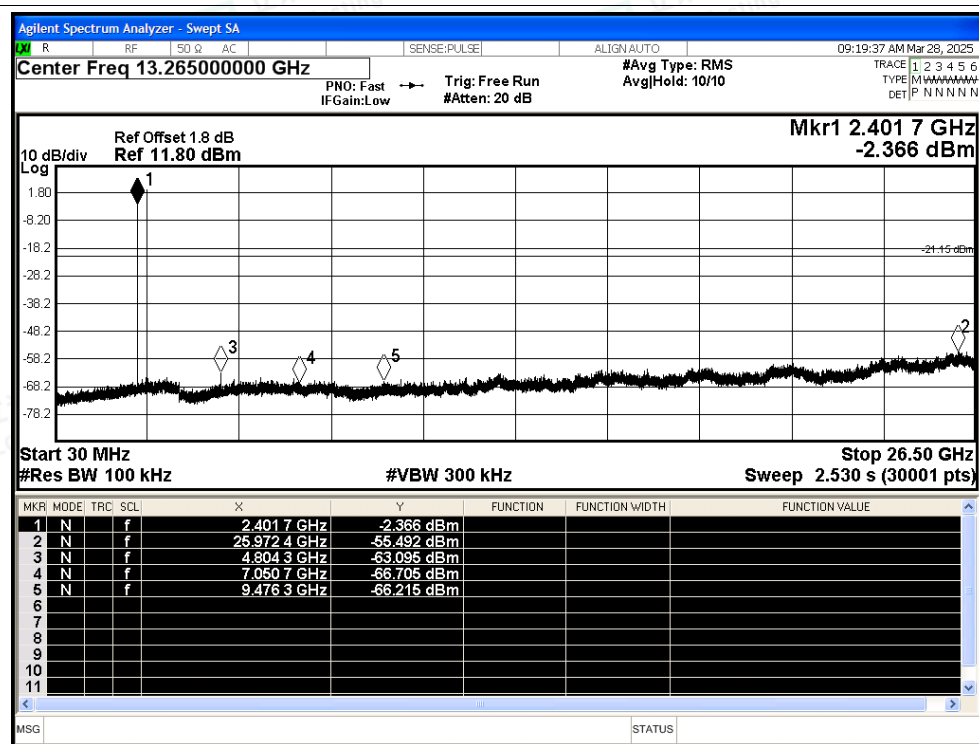


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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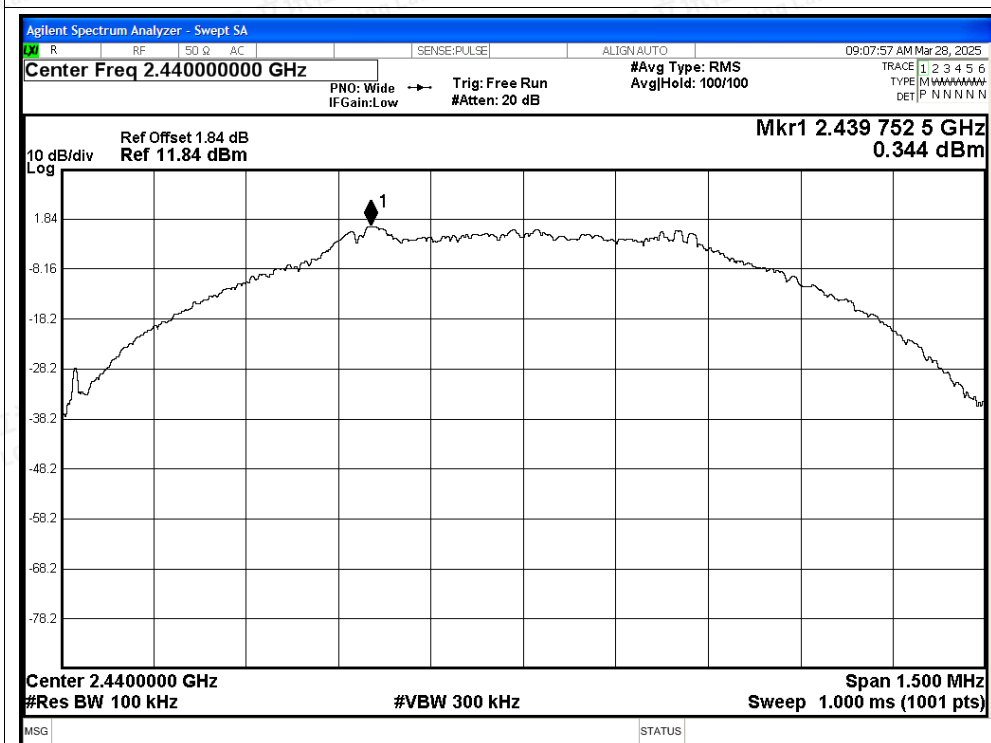
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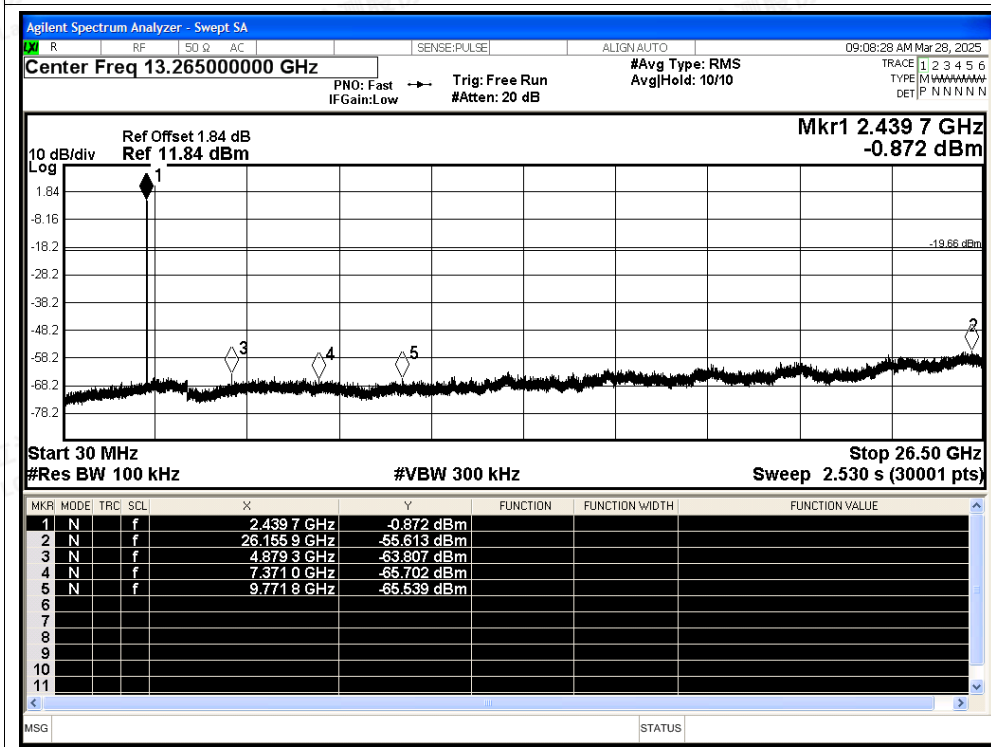
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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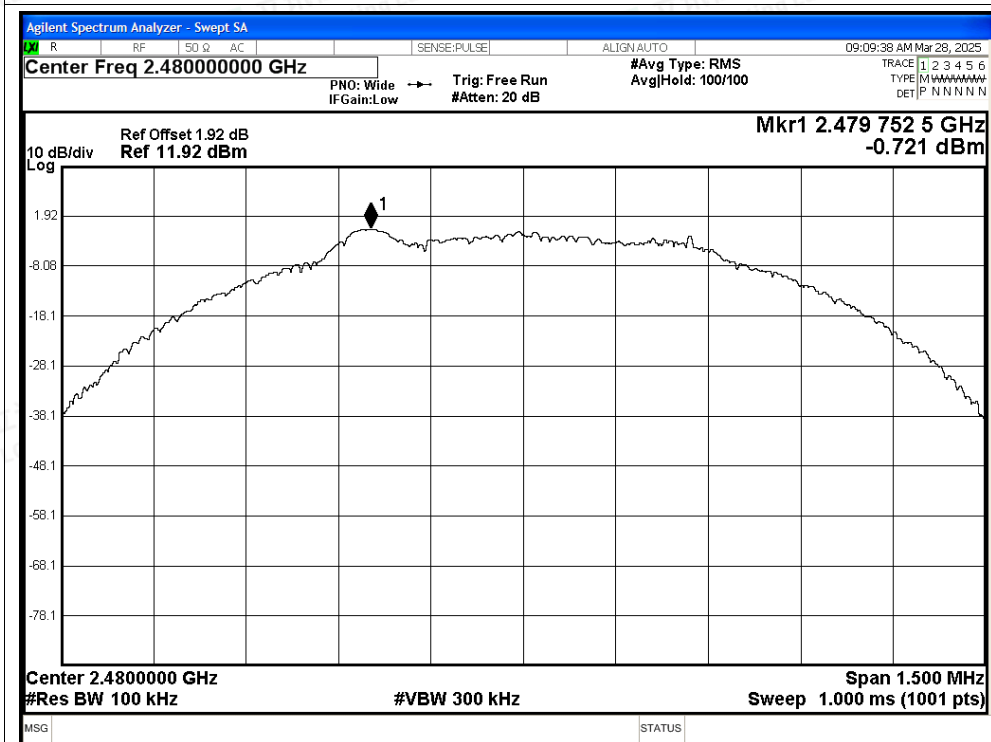
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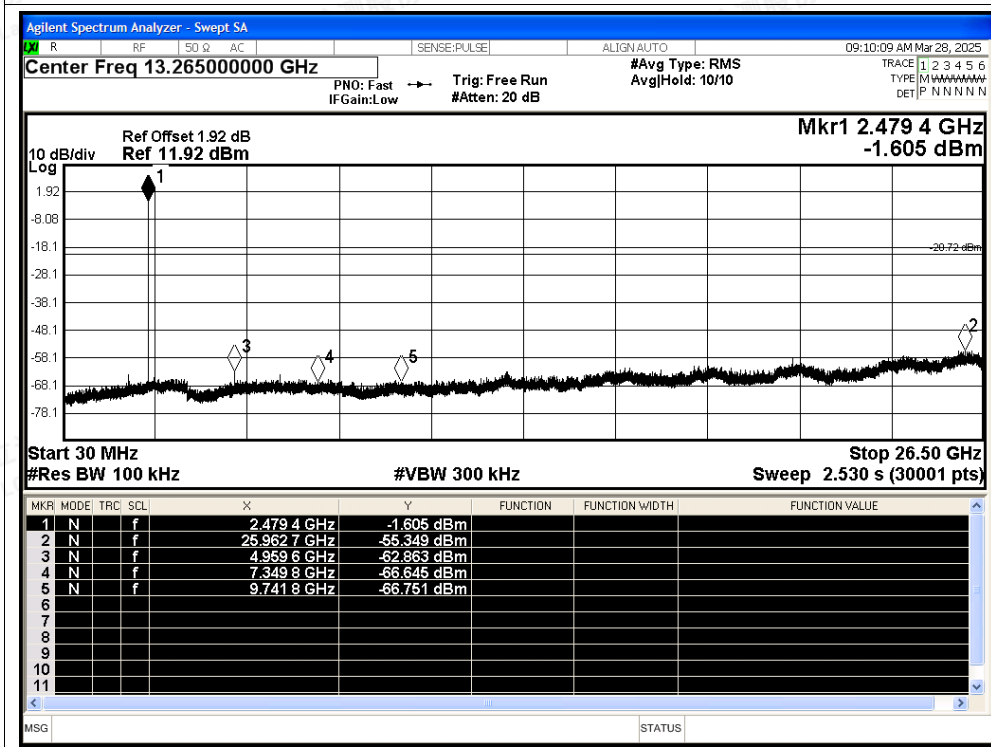
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



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	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

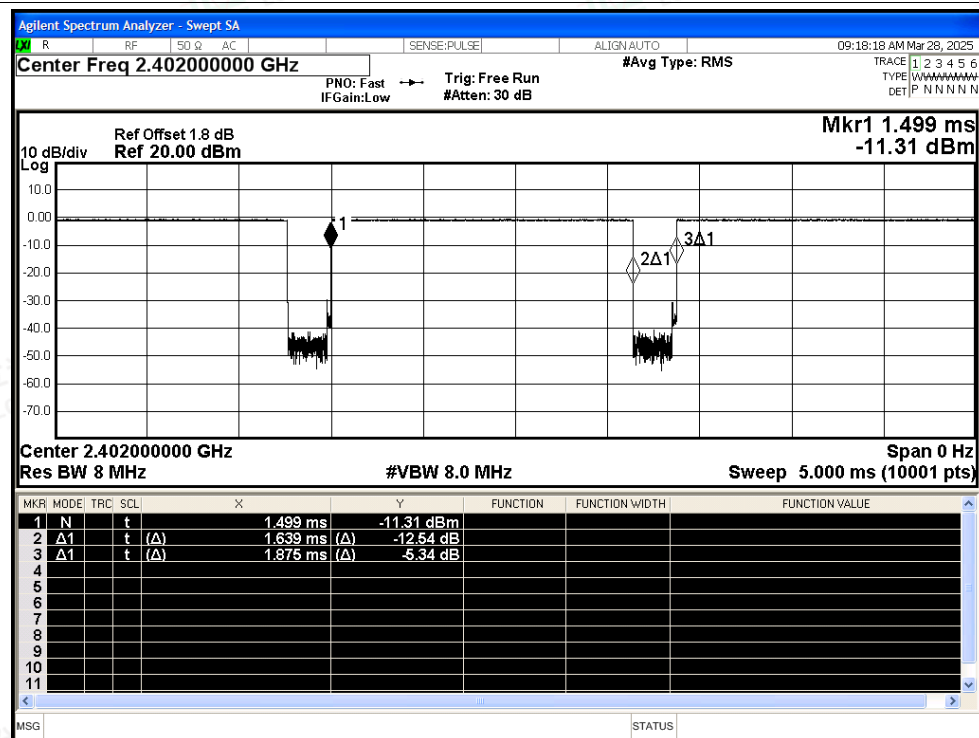


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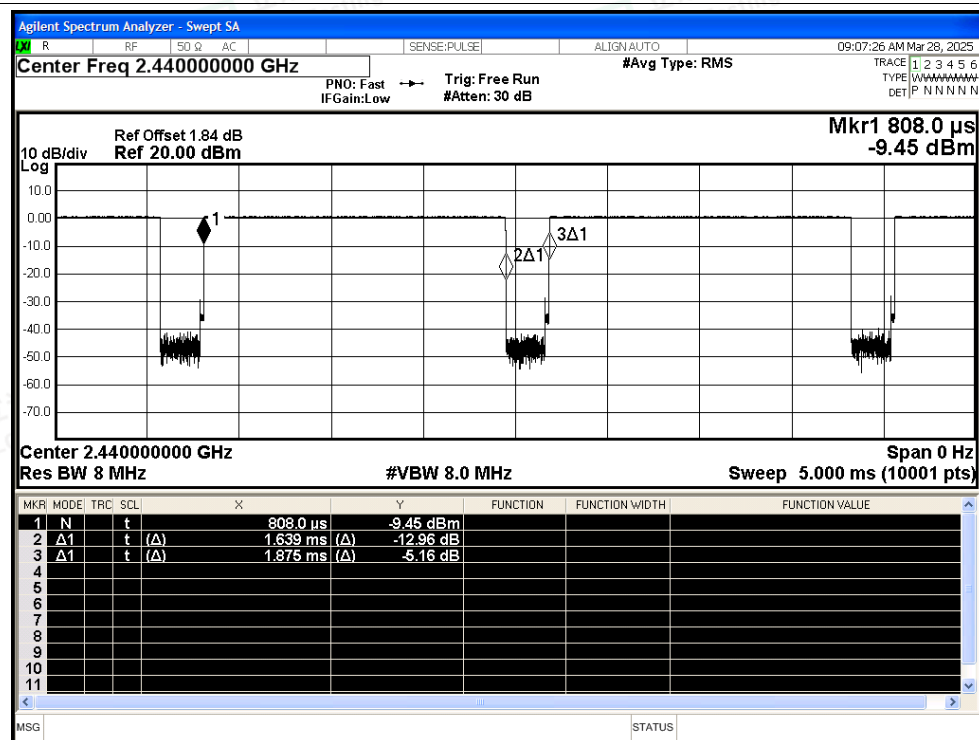


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

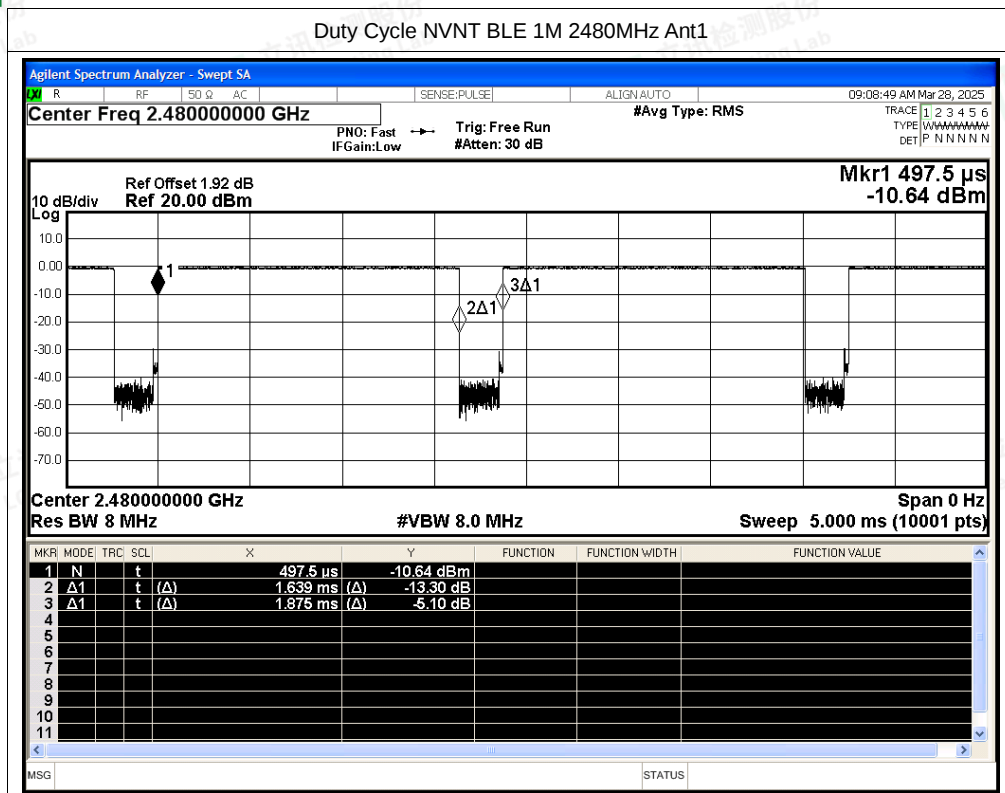


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B.7 Restrict Band

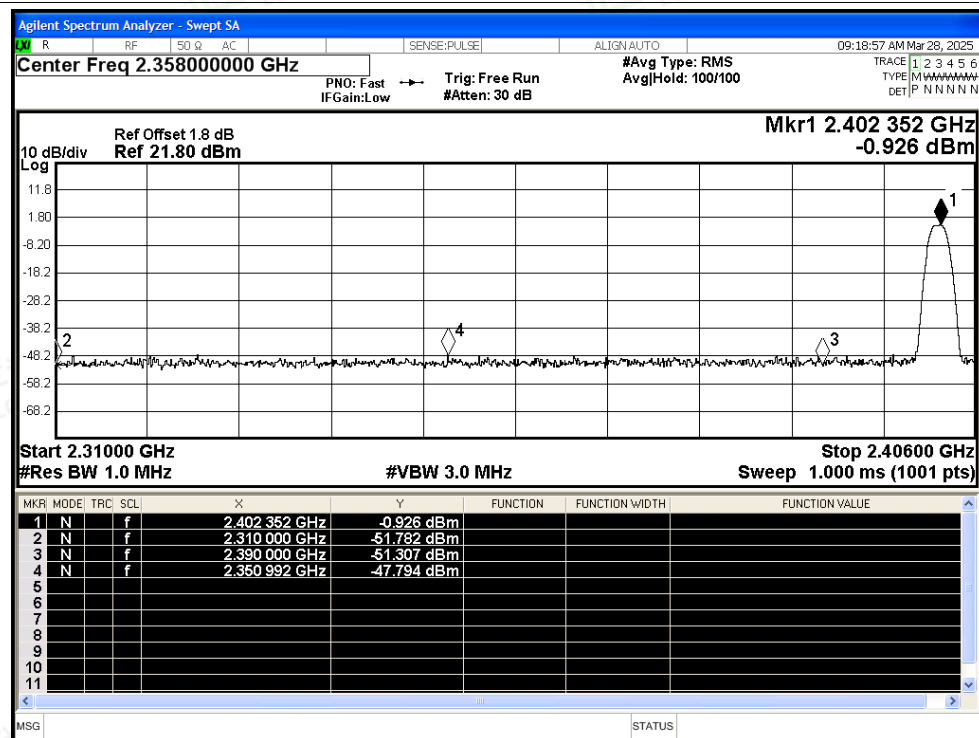
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.78	2	-	45.48	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-59.1	2	0.59	38.75	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2350.992	-47.79	2	-	49.47	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2386.32	-58.34	2	0.59	39.51	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-51.31	2	-	45.95	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.55	2	0.59	39.3	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-51.4	2	-	45.86	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.77	2	0.59	40.08	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.704	-44.67	2	-	52.59	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.608	-57.63	2	0.59	40.22	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.57	2	-	47.69	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.13	2	0.59	39.72	Average	54	Pass



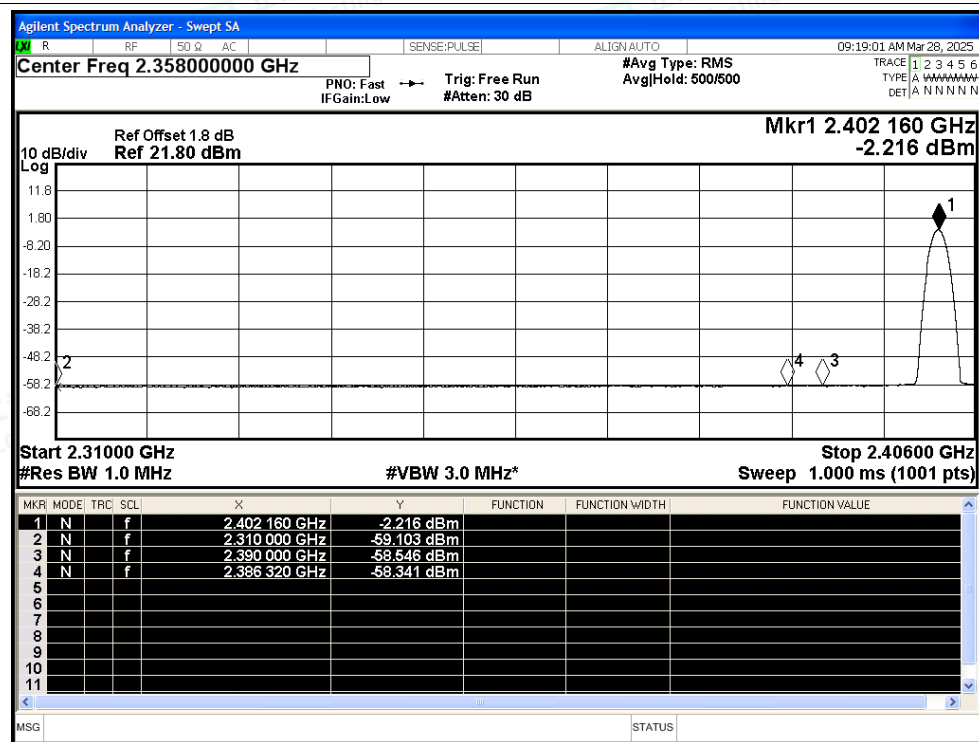


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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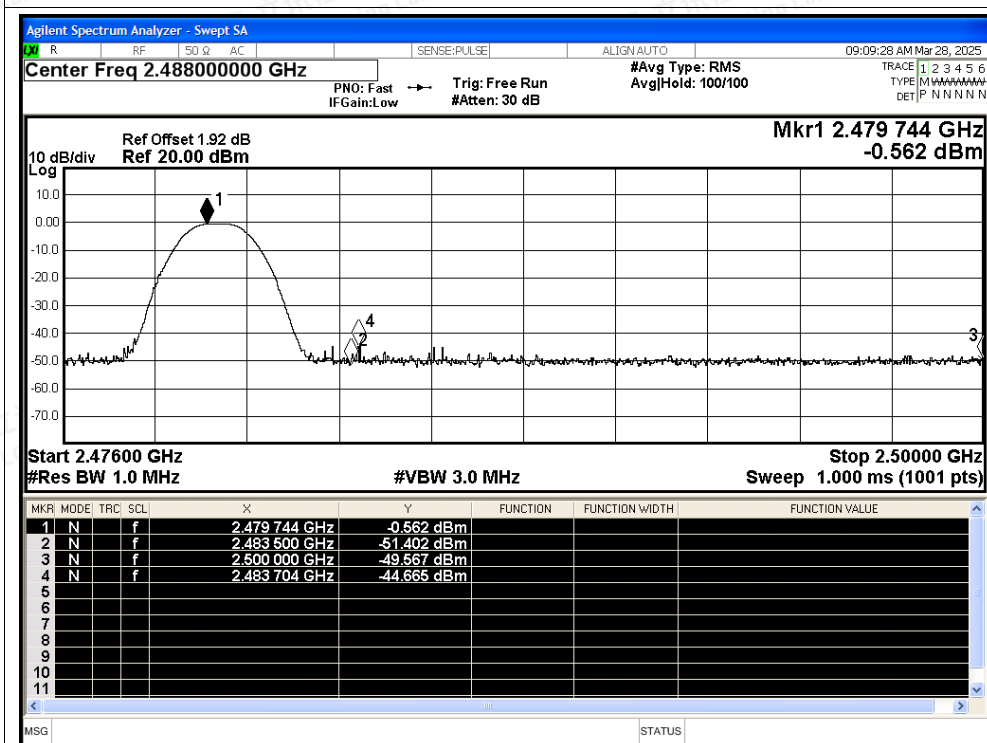
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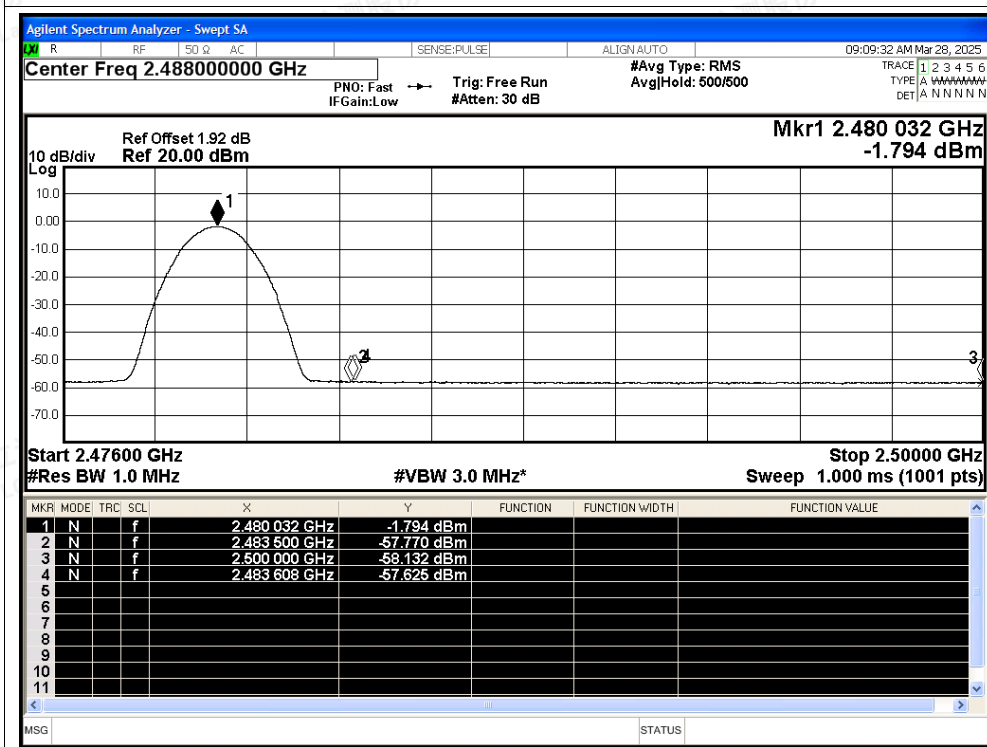
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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