



Appendix B

RF Test Data for BT LE(Conducted Measurement)

Product Name: Diagnostic Tool

Test Model: MS75

Environmental Conditions

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





B.1 -6dB Bandwidth

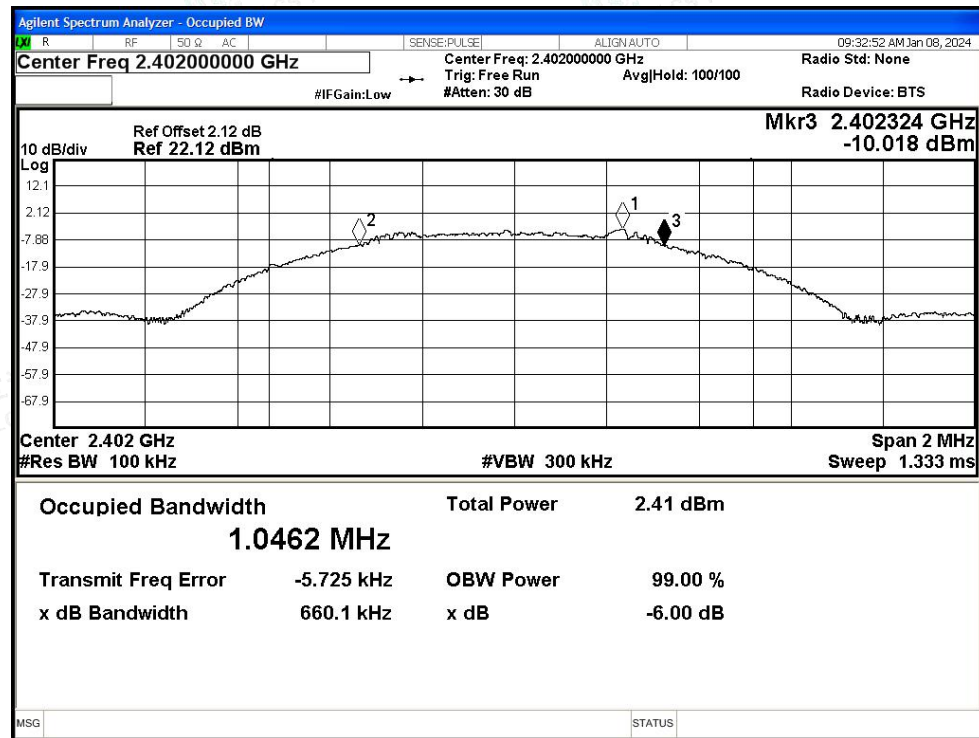
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.66	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.661	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.66	≥ 0.5	Pass



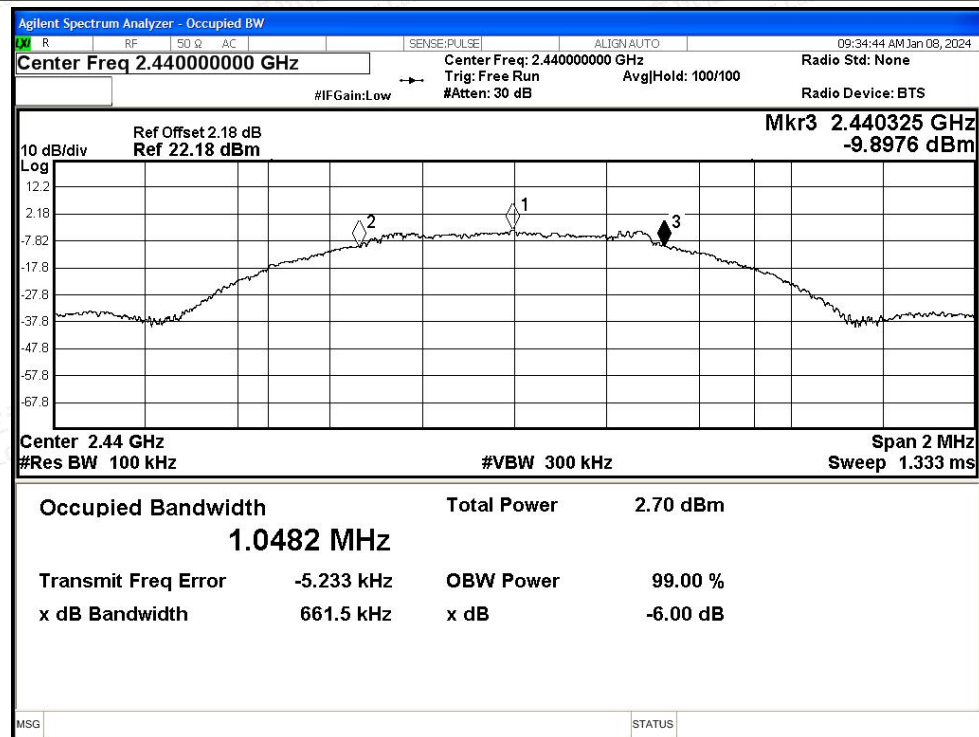


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

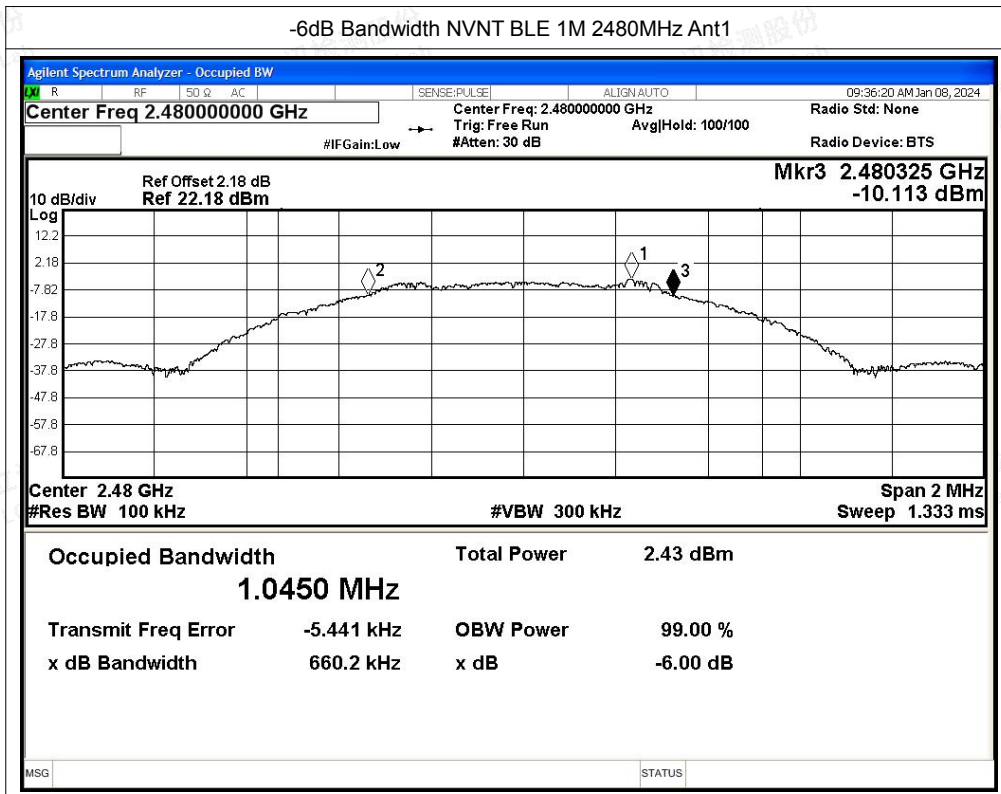


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B.2 Maximum Conducted Output Power

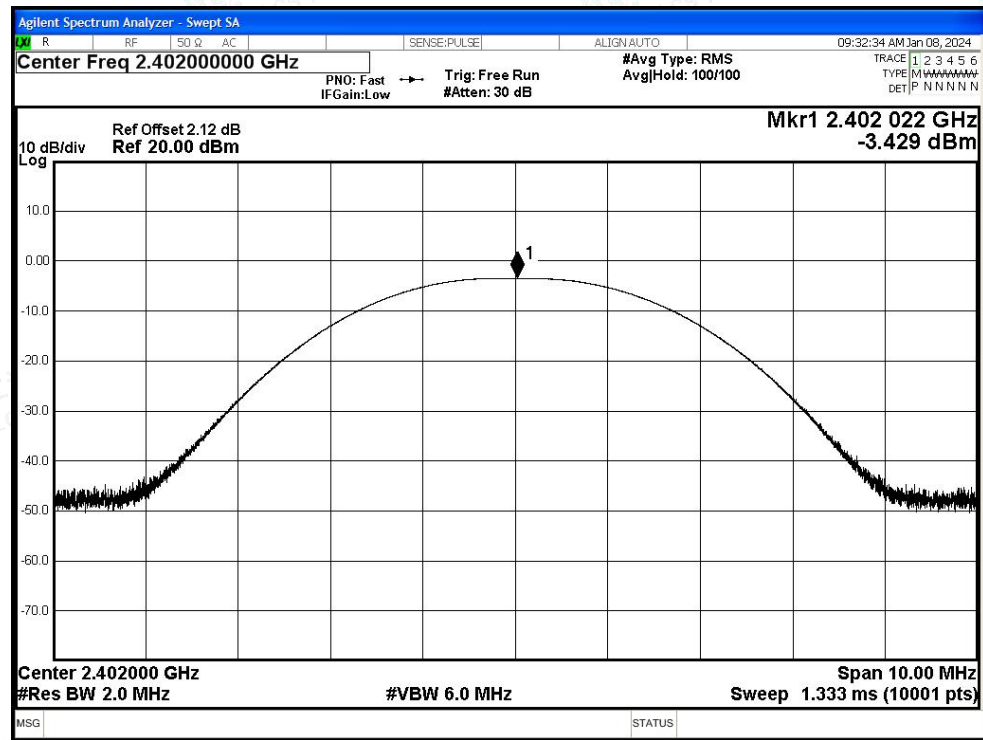
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-3.43	30	Pass
NVNT	BLE 1M	2440	Ant1	-3.15	30	Pass
NVNT	BLE 1M	2480	Ant1	-3.43	30	Pass



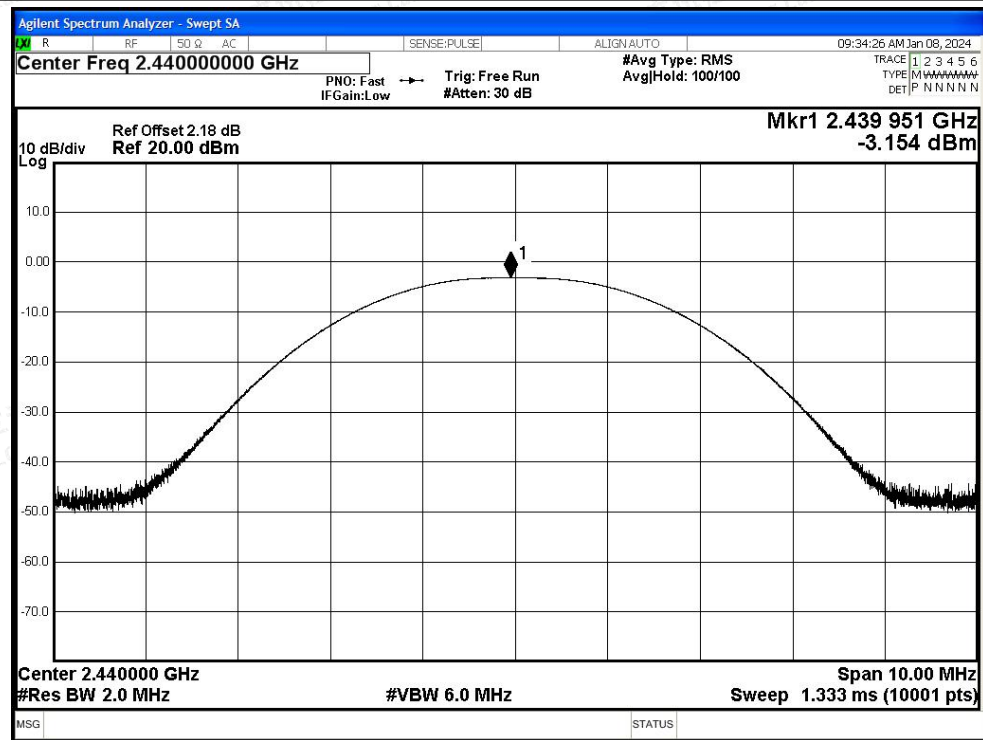


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

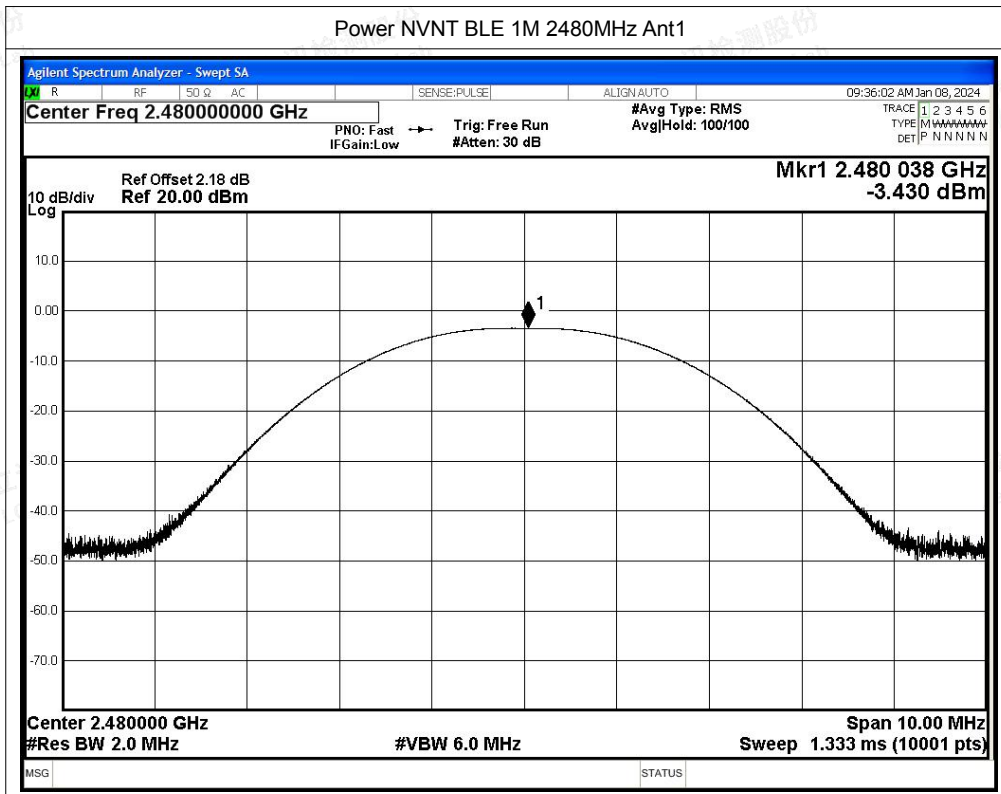


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B.3 Maximum Power Spectral Density Level

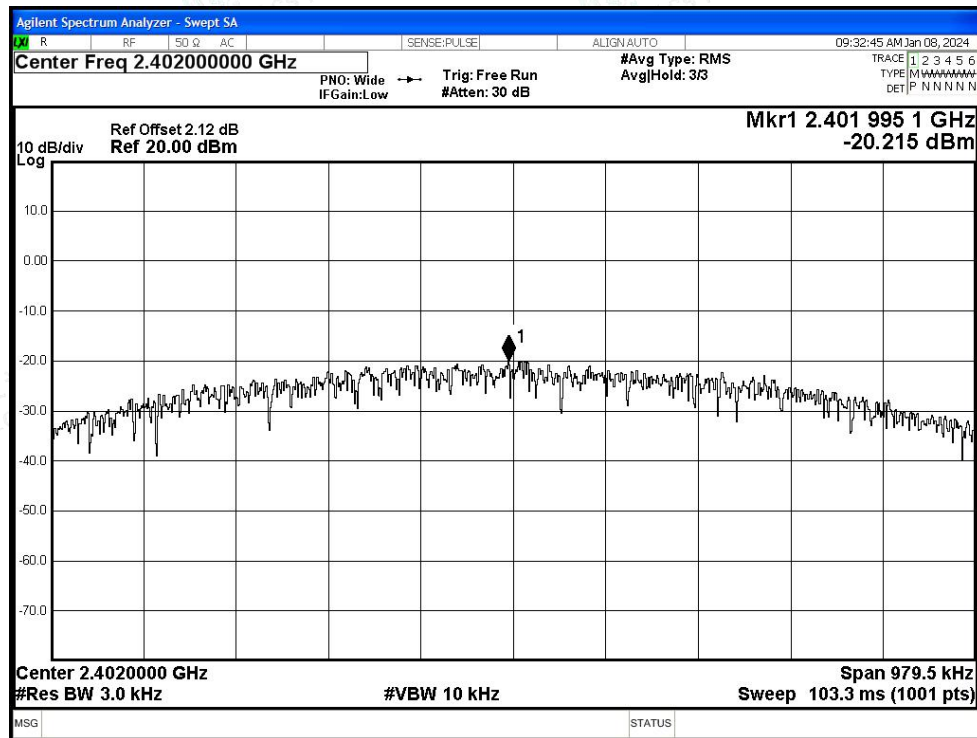
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-20.22	8	Pass
NVNT	BLE 1M	2440	Ant1	-20.01	8	Pass
NVNT	BLE 1M	2480	Ant1	-19.95	8	Pass



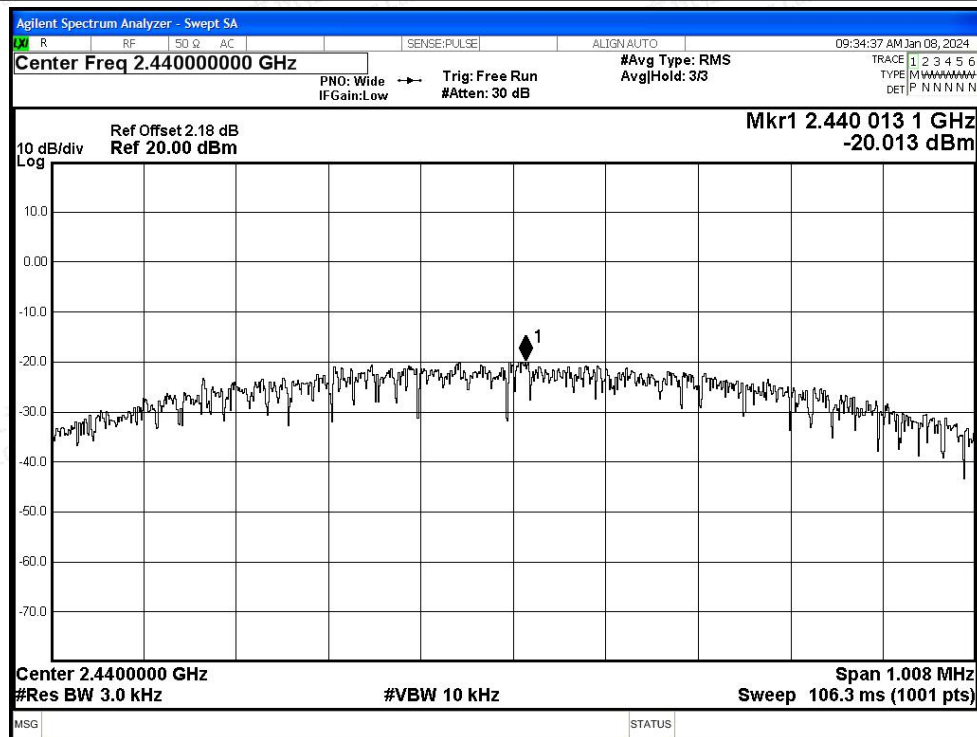


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

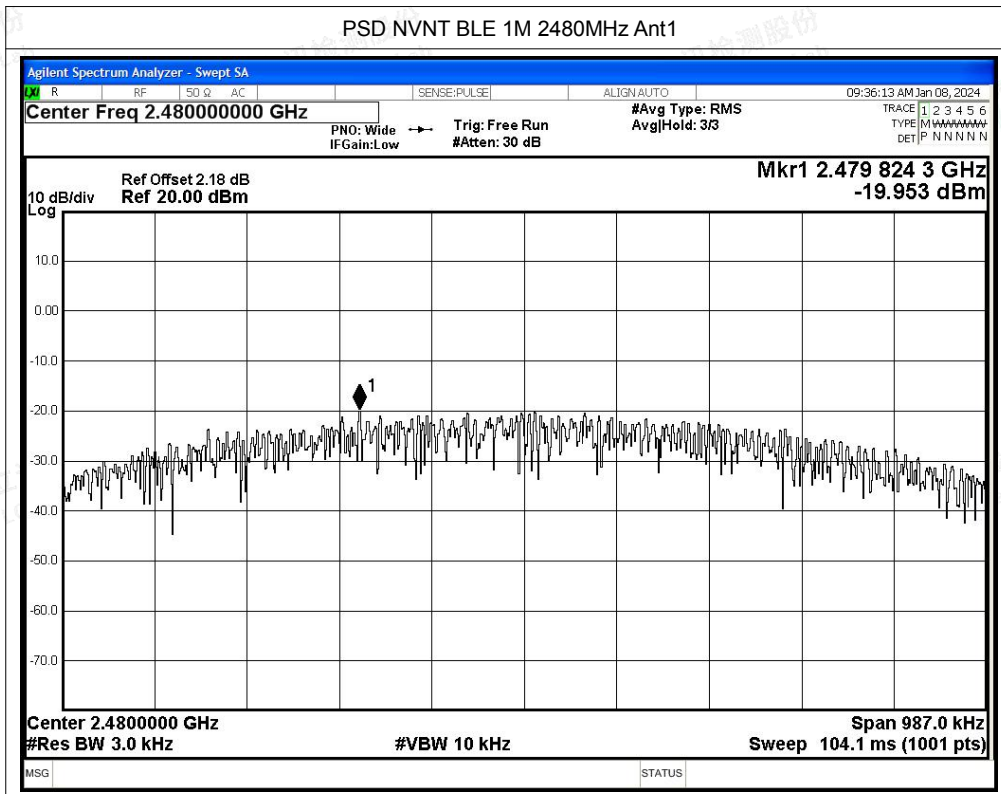


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B.4 Band Edge

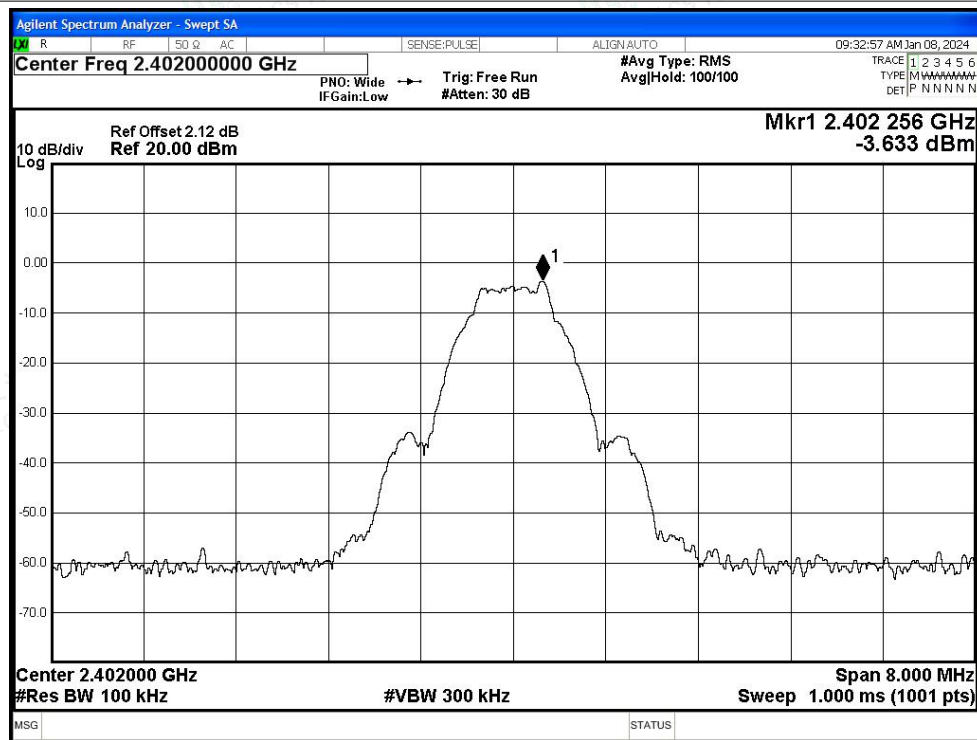
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.06	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.18	-20	Pass



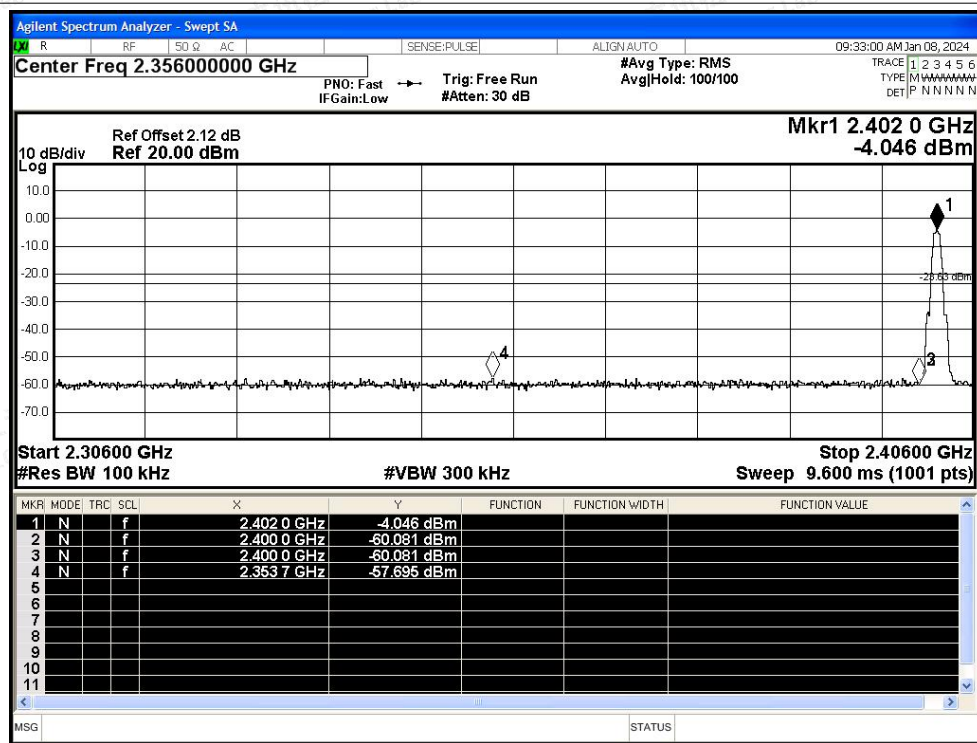


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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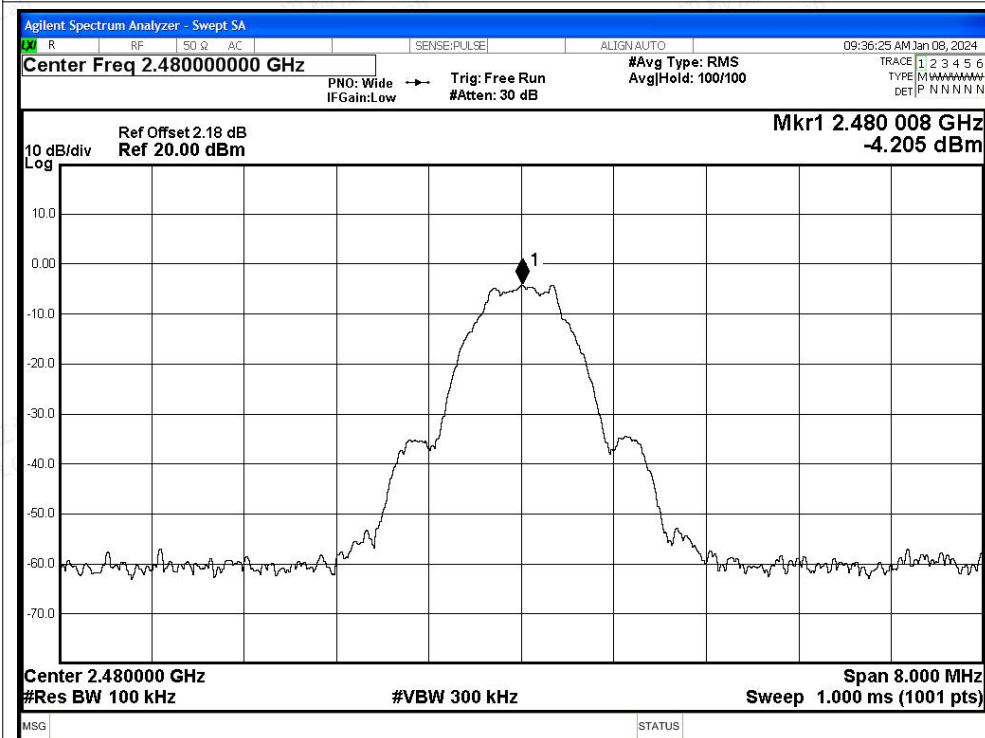
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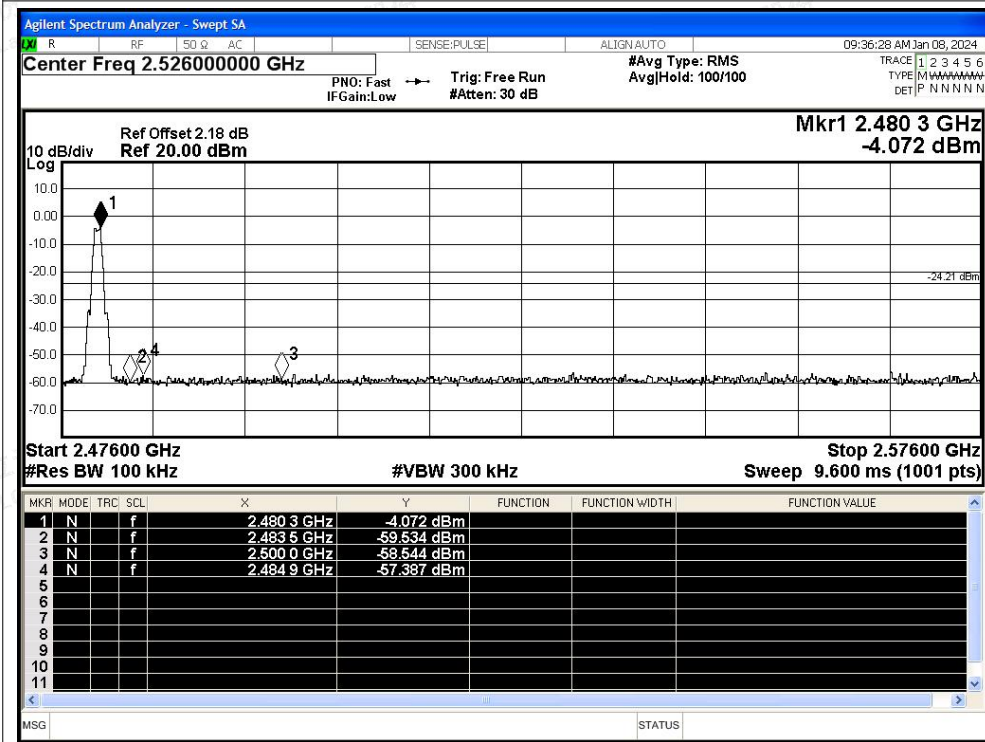
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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B.5 Conducted RF Spurious Emission

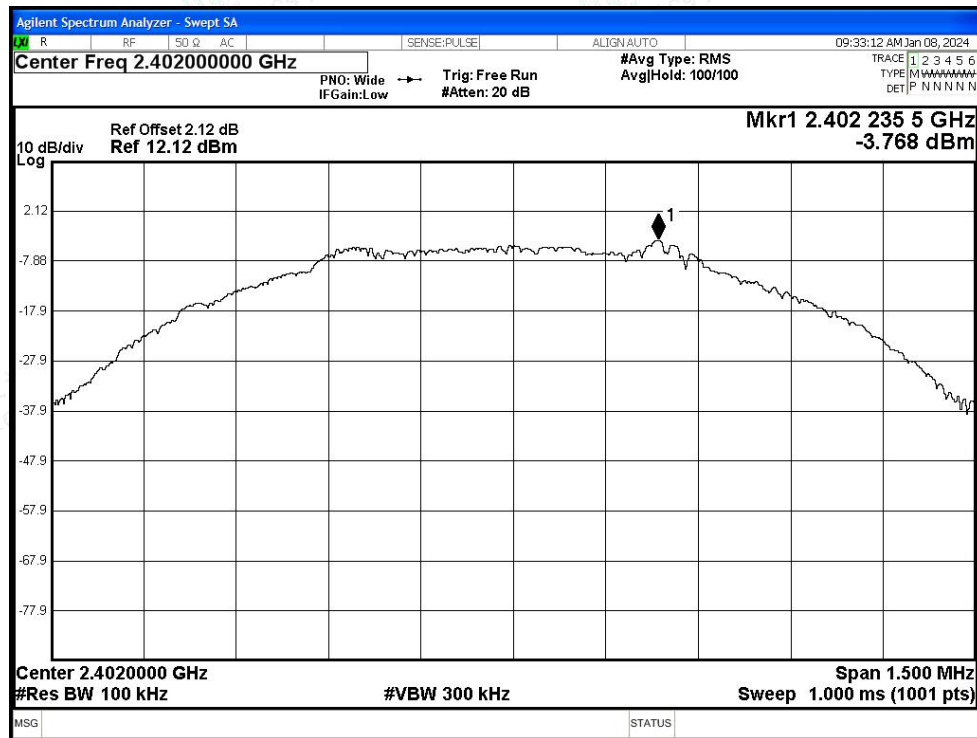
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-51.8	-20	Pass
NVNT	BLE 1M	2440	Ant1	-51.41	-20	Pass
NVNT	BLE 1M	2480	Ant1	-51.21	-20	Pass



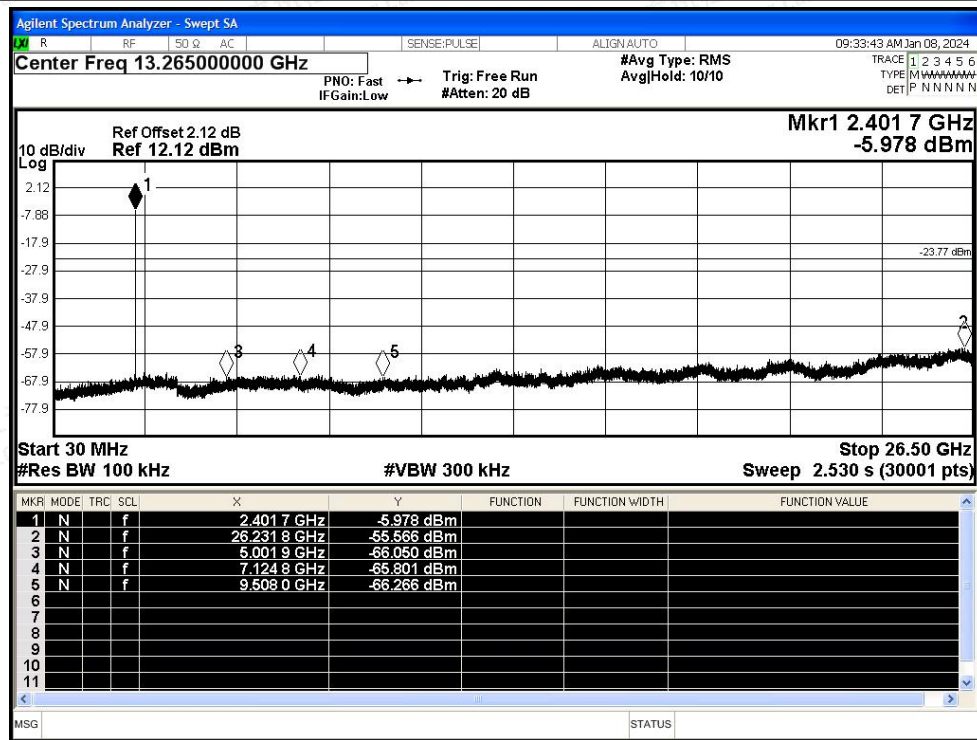


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

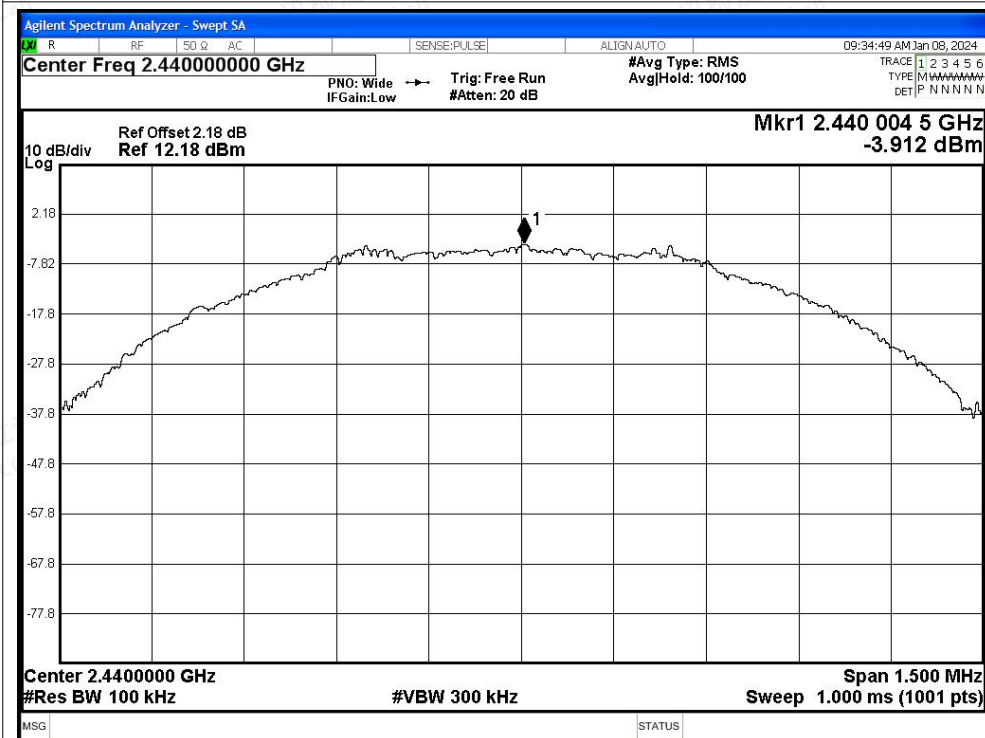
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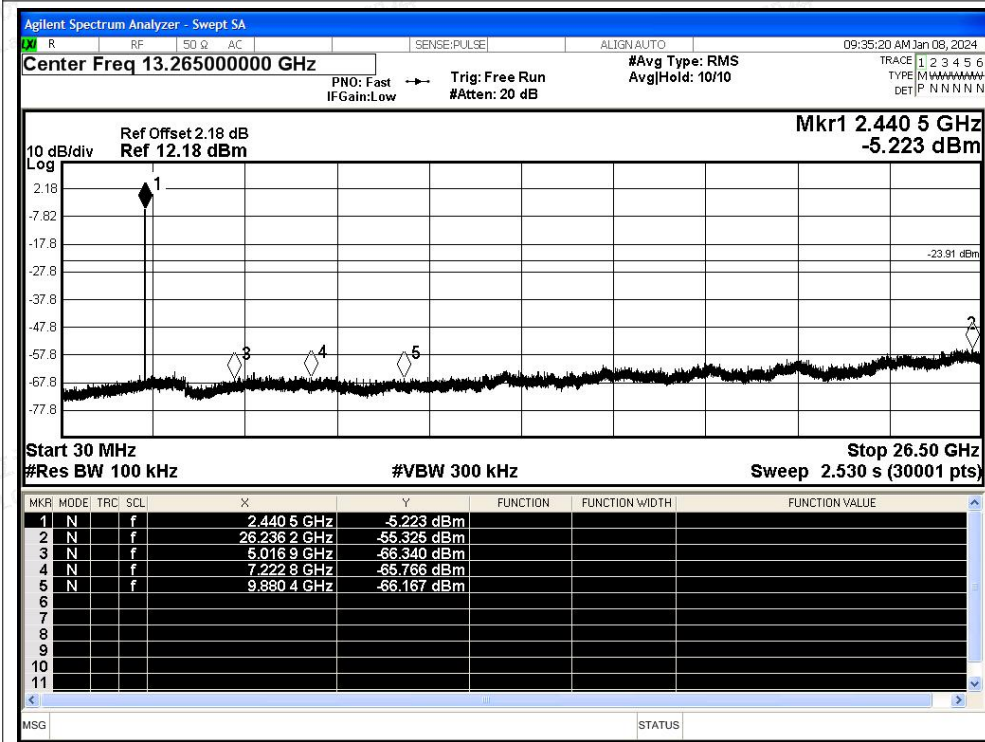
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

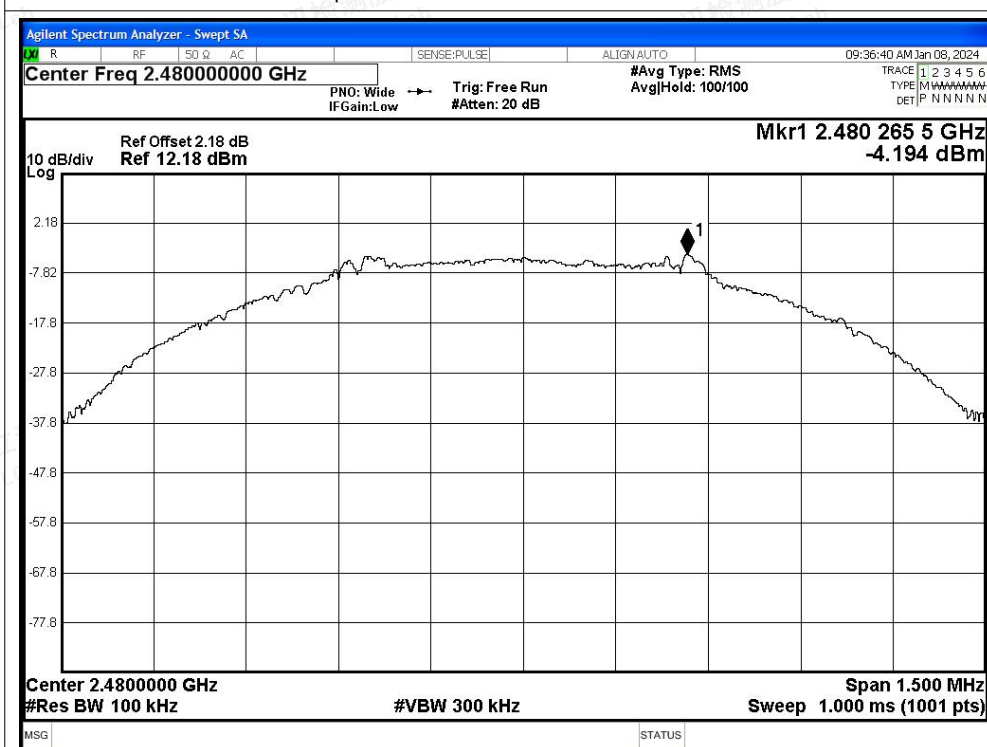
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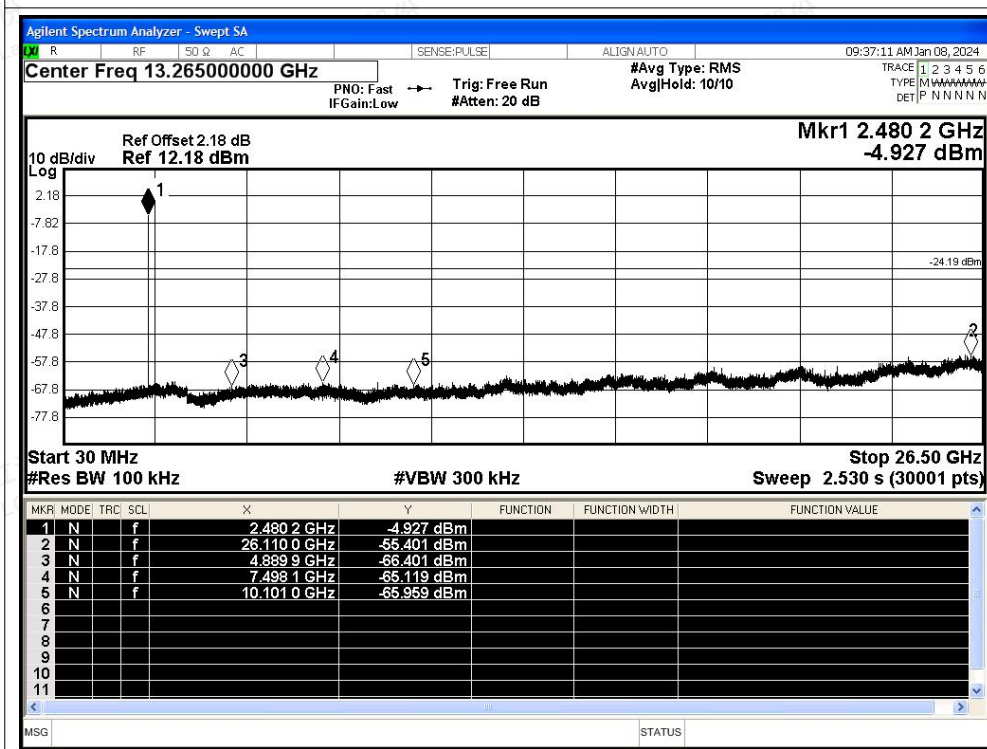
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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B.6 Duty Cycle

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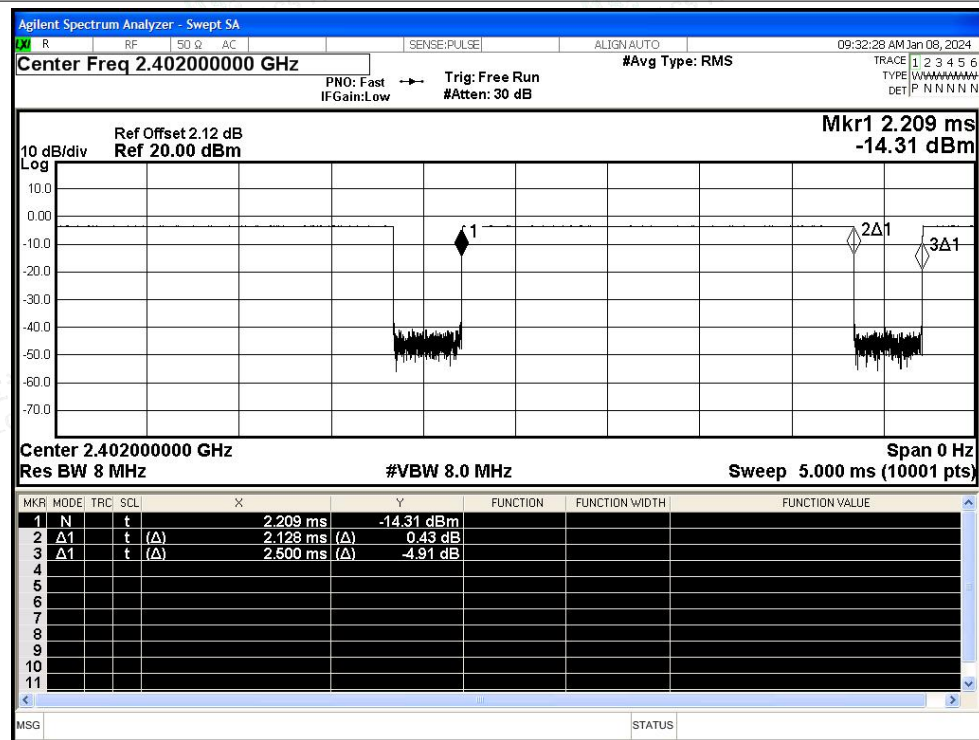
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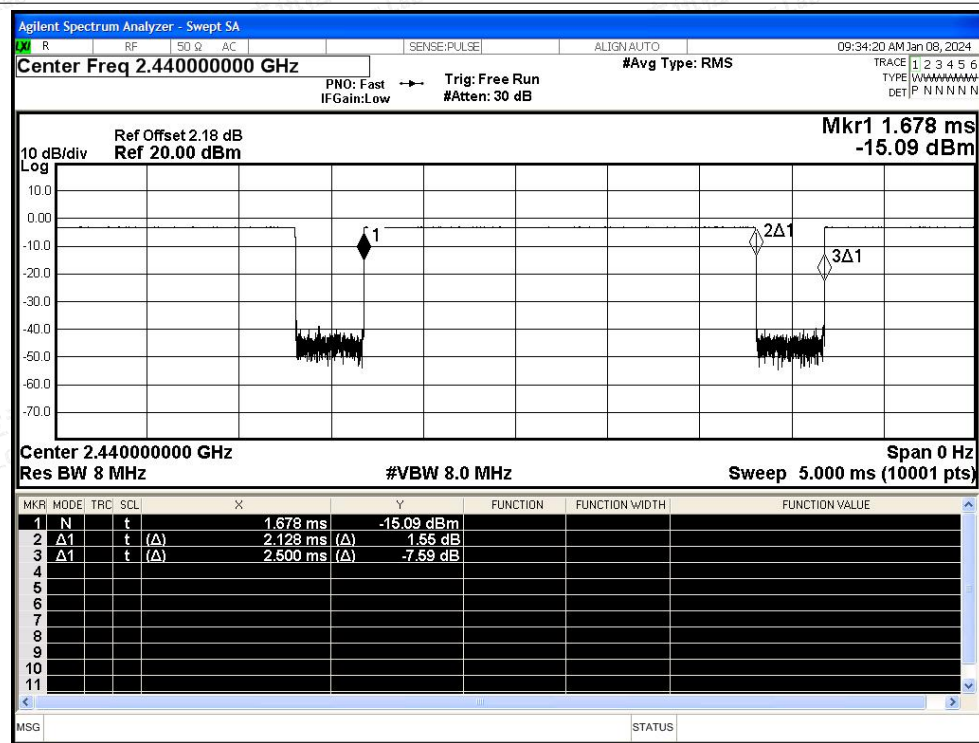


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

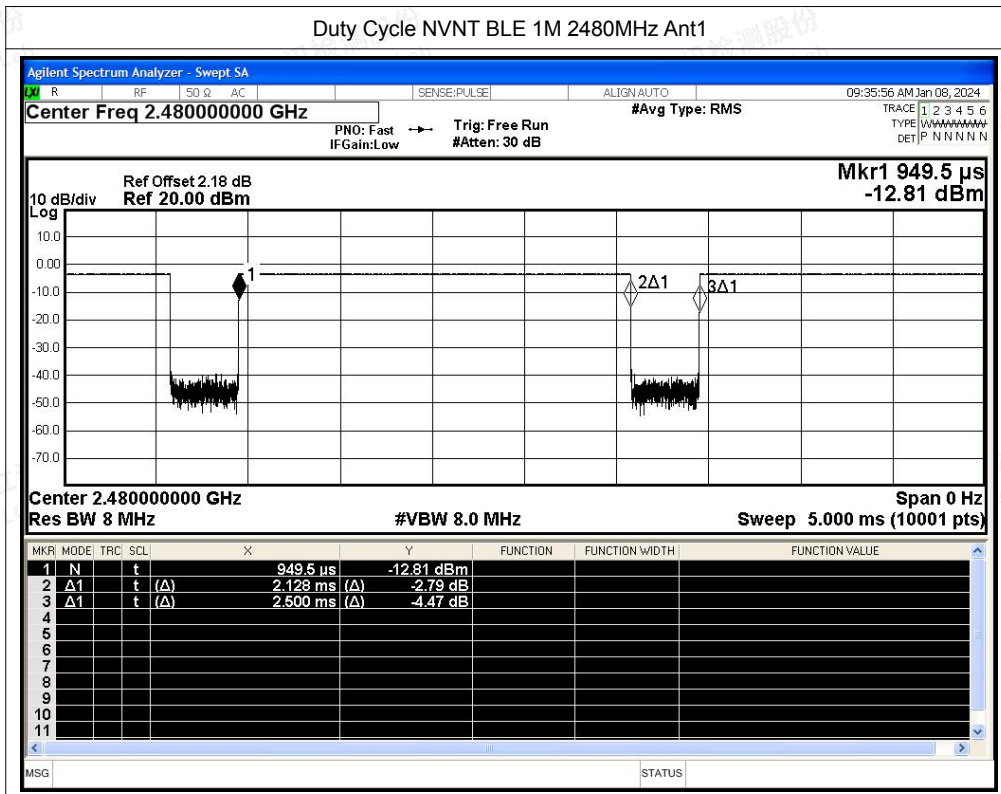


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B.7 Restrict Band

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	-	46.49	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.63	2	0.7	39.33	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2384.88	-47.64	2	-	49.62	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2387.28	-57.5	2	0.7	40.46	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.38	2	-	46.88	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.29	2	0.7	39.67	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.96	2	-	48.3	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.72	2	0.7	40.24	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2484.472	-46.5	2	-	50.76	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2496.592	-57.01	2	0.7	40.95	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.59	2	-	47.67	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.2	2	0.7	39.76	Average	54	Pass



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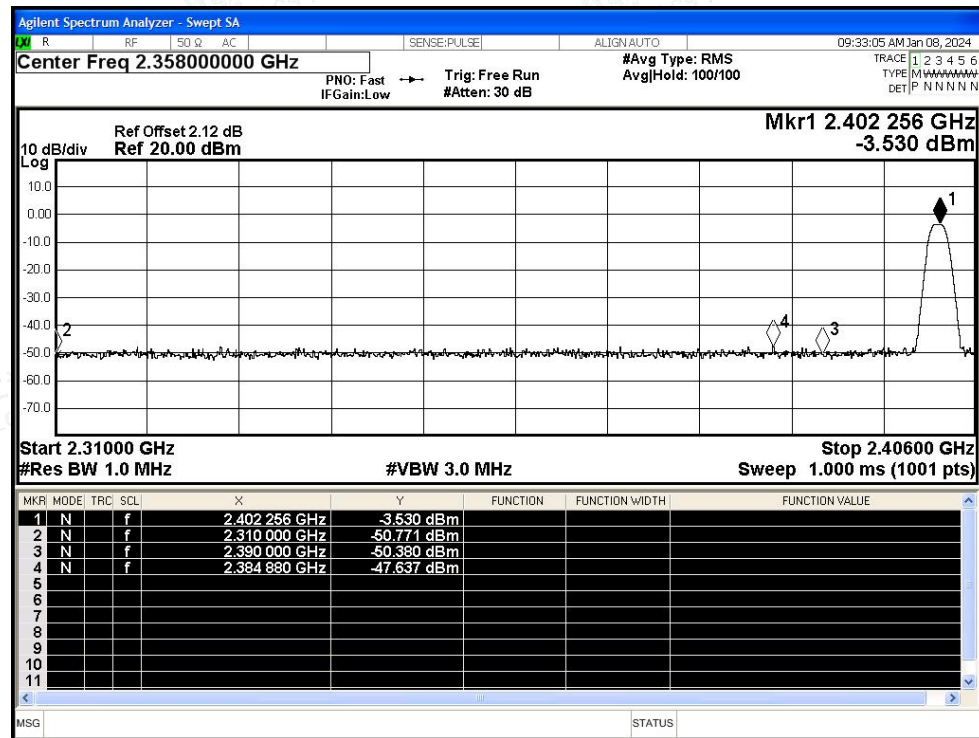
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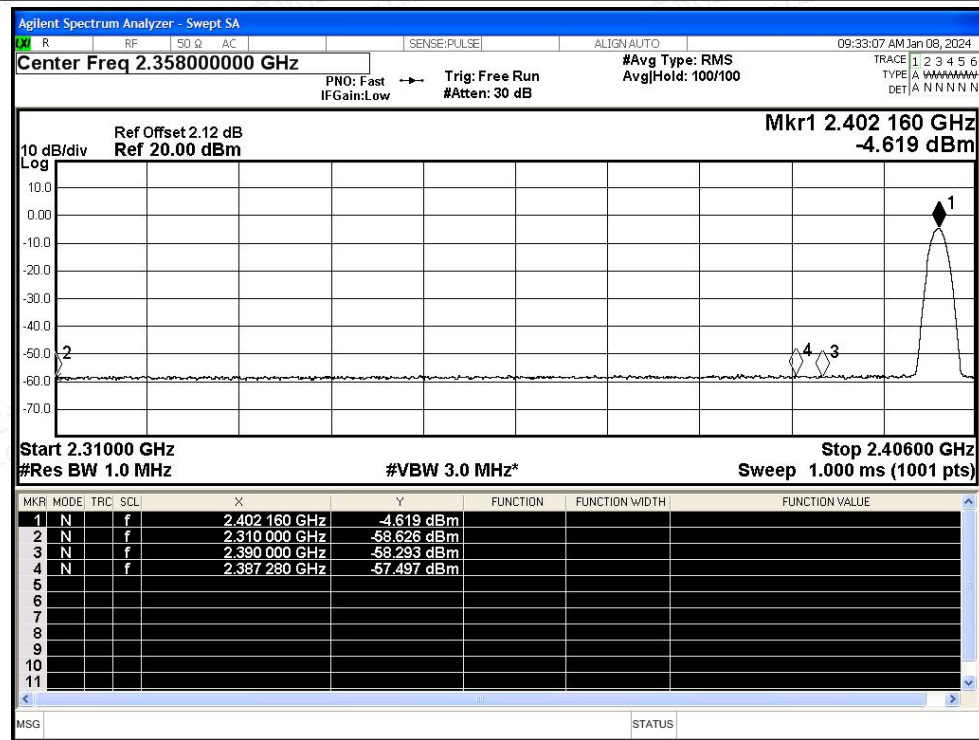


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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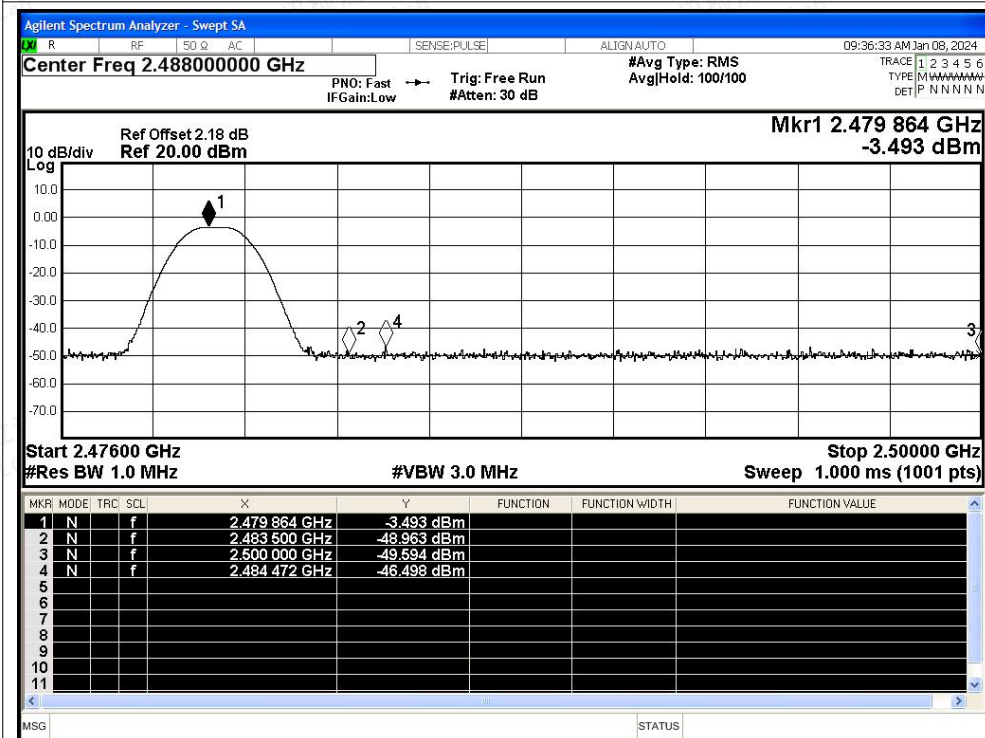
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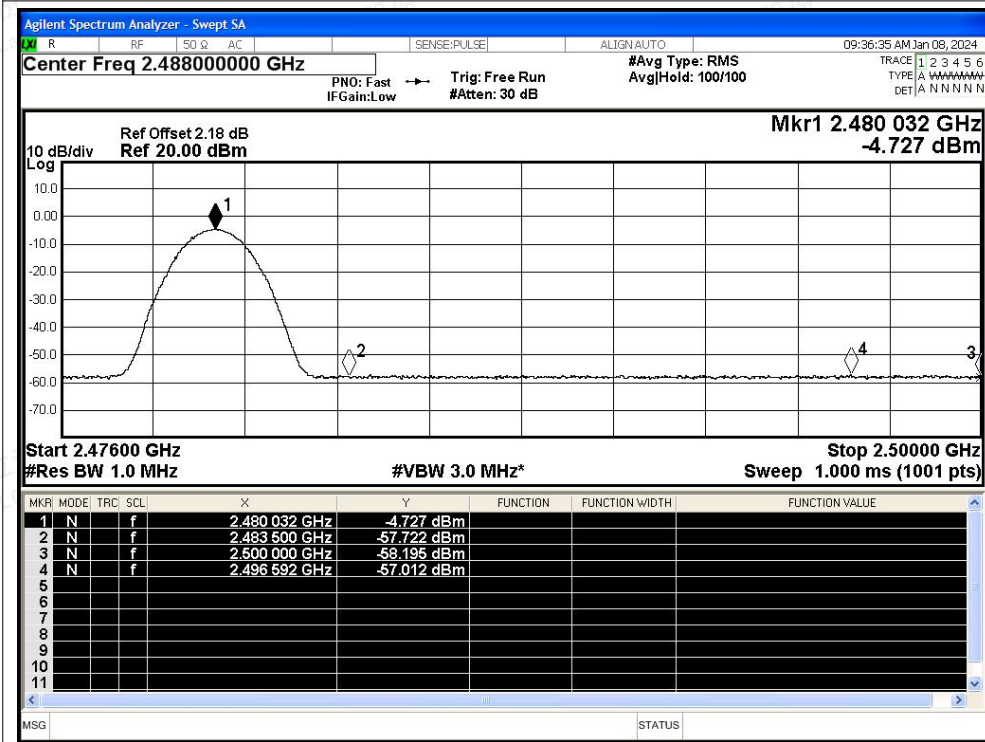
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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