



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Active Stylus Pen

Test Model: Z002

Environmental Conditions

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



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B.1 -6dB Bandwidth

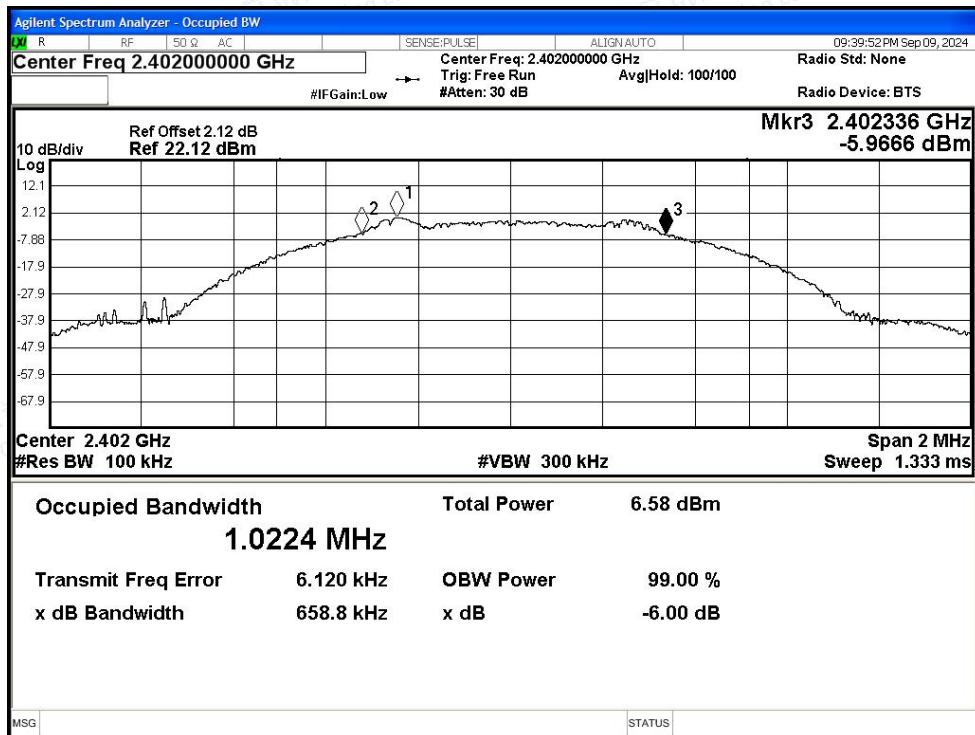
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.659	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.643	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.649	≥ 0.5	Pass



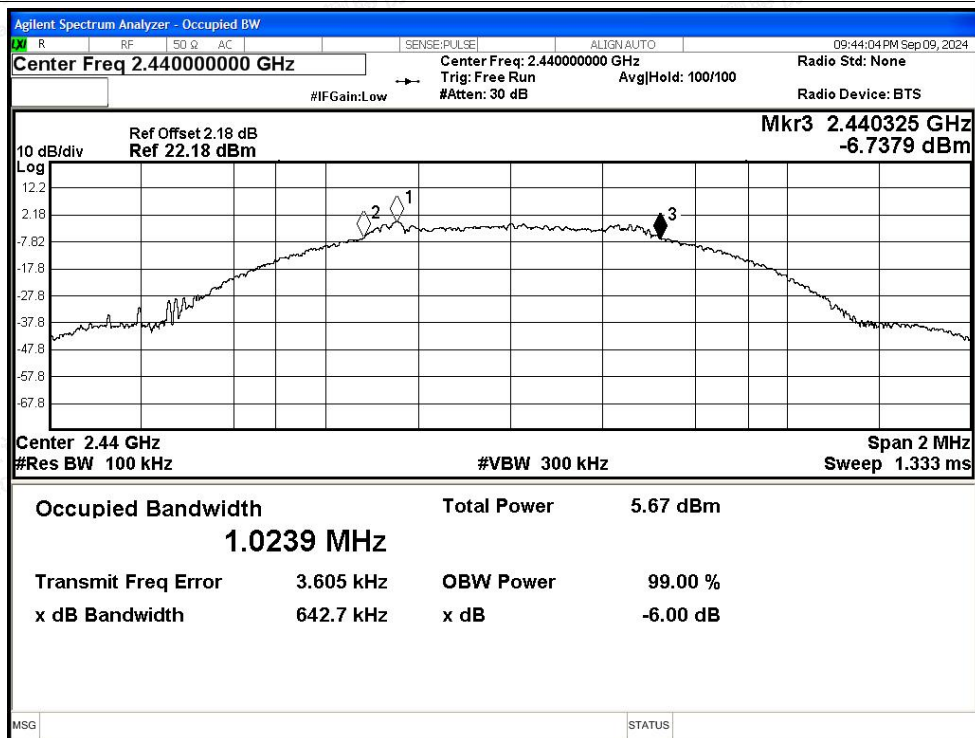


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



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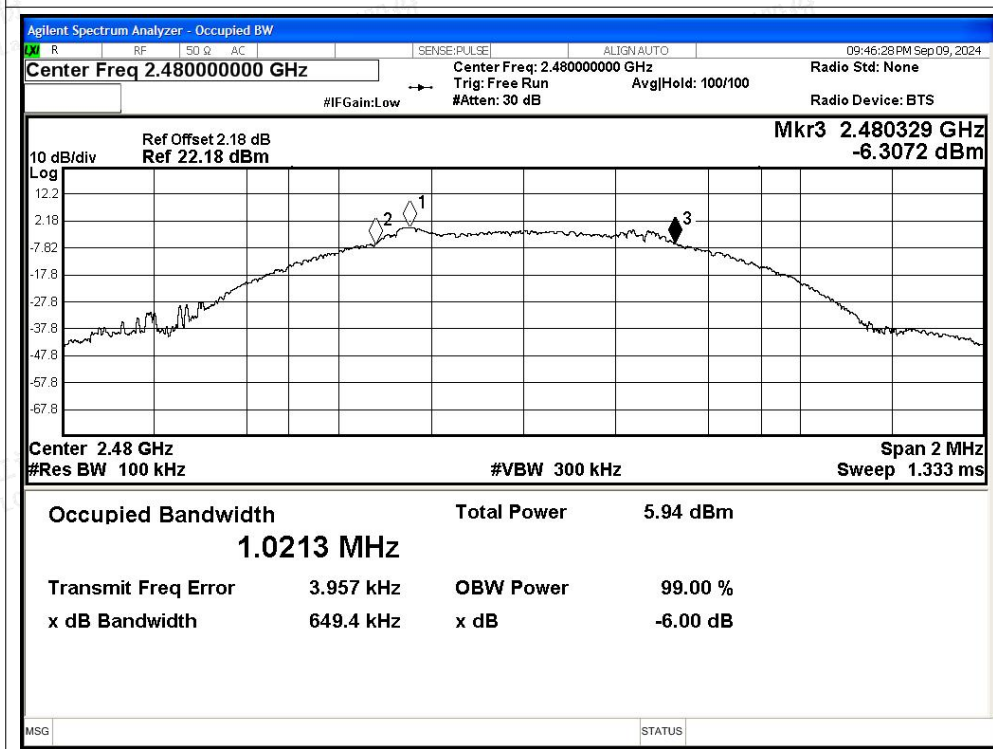
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-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



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B.2 Maximum Conducted Output Power

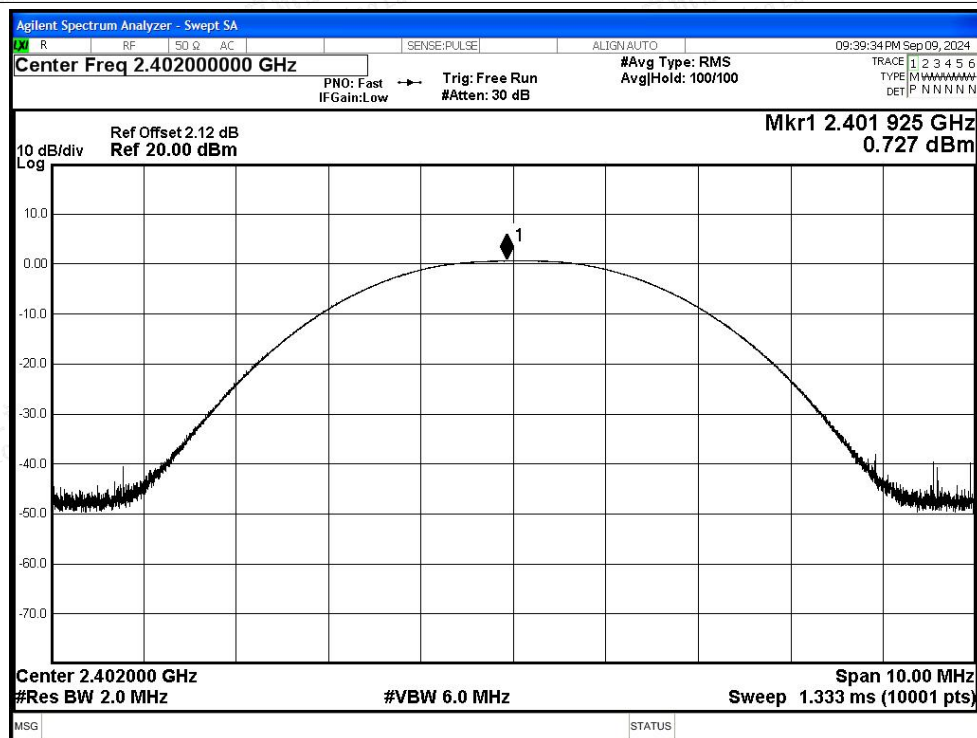
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.73	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.10	30	Pass
NVNT	BLE 1M	2480	Ant1	0.11	30	Pass



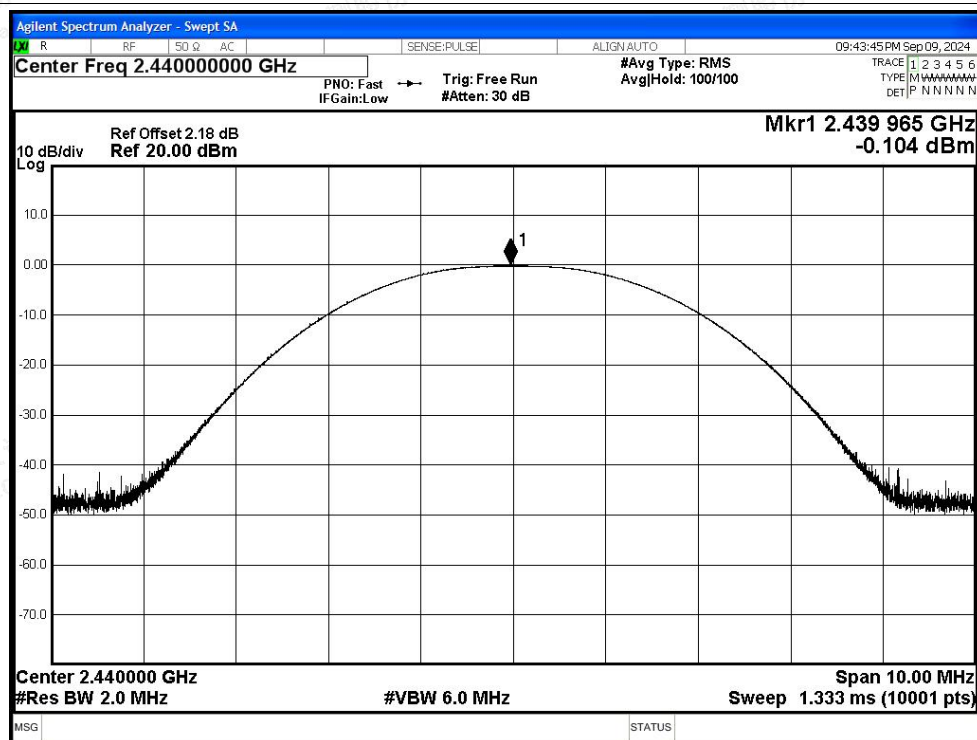


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

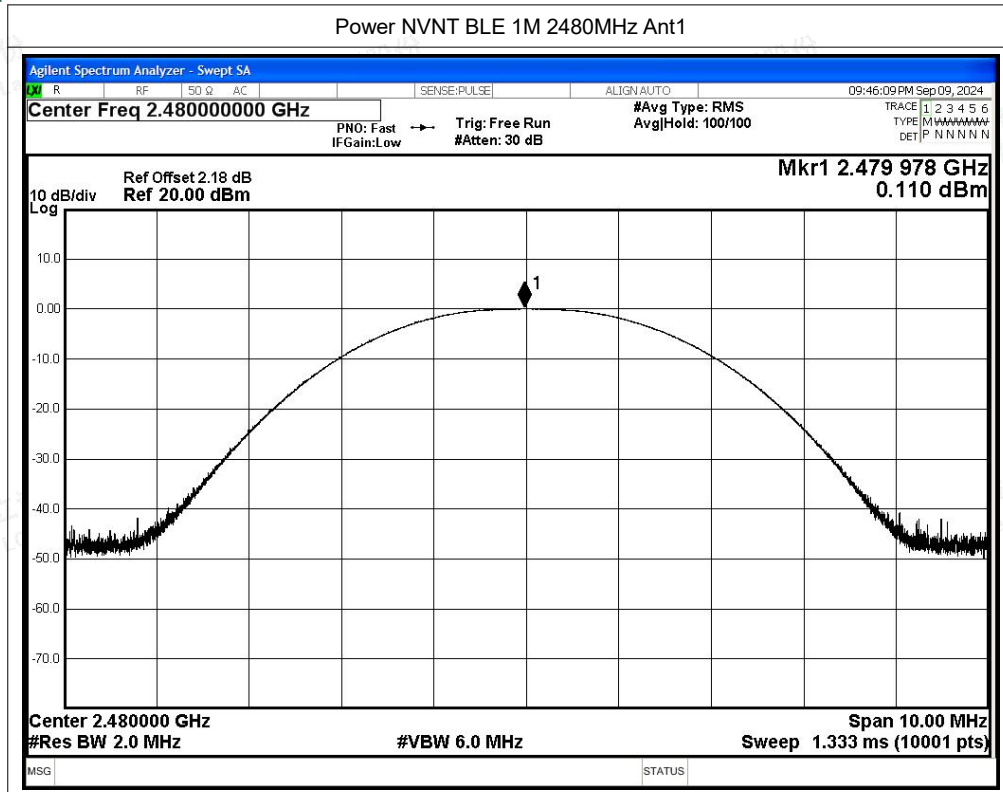


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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-16.11	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.79	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.43	8	Pass

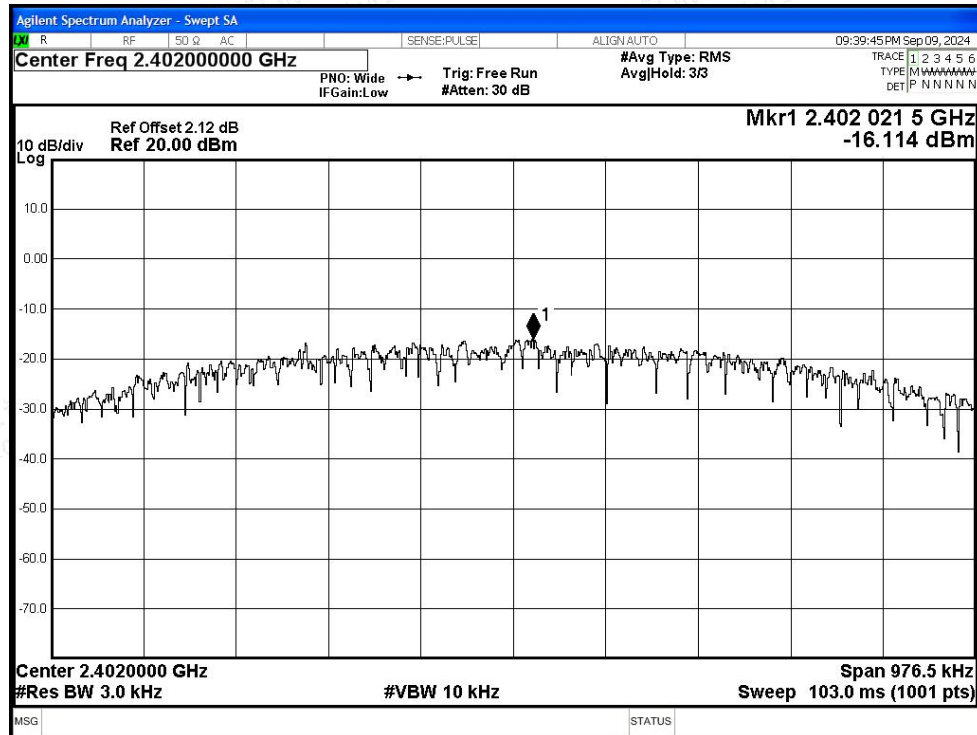


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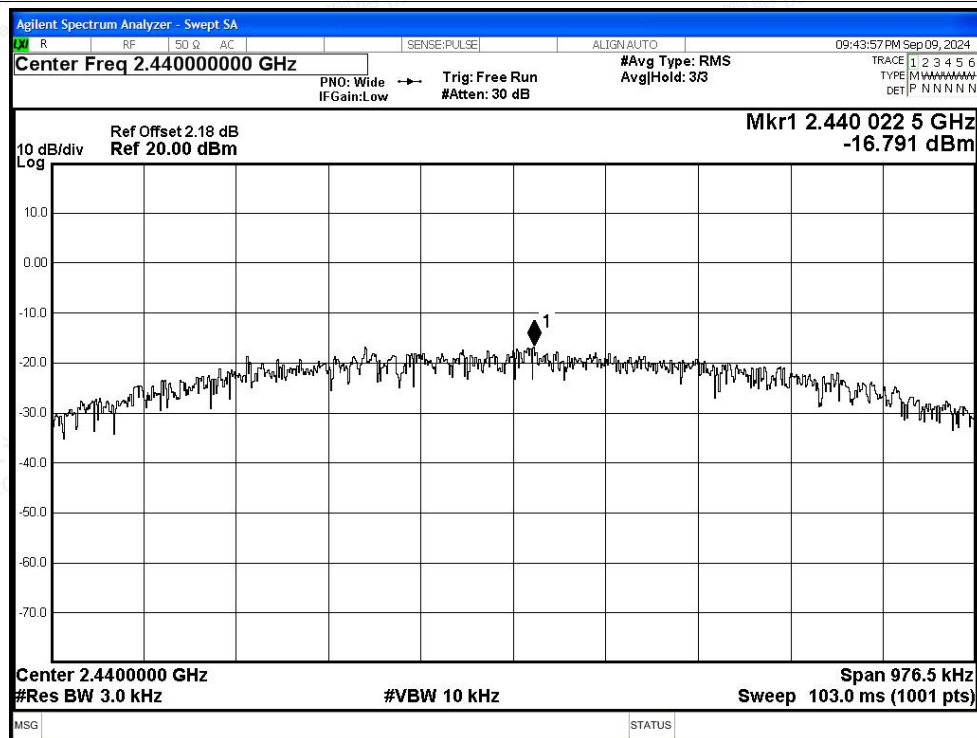


Test Graphs

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	-55.93	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.19	-20	Pass

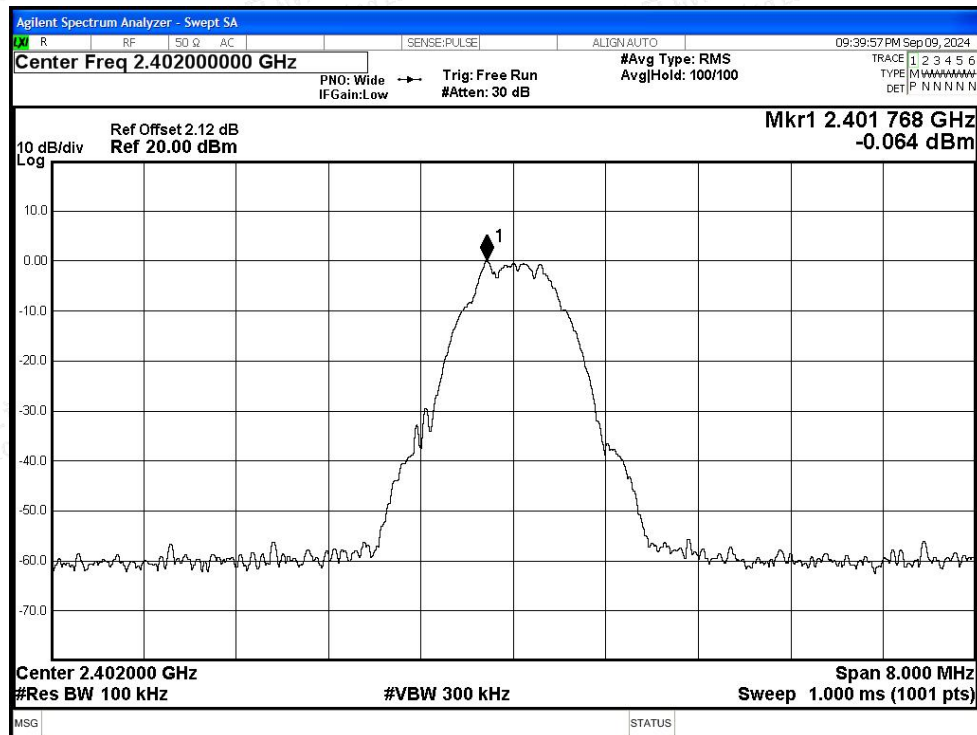


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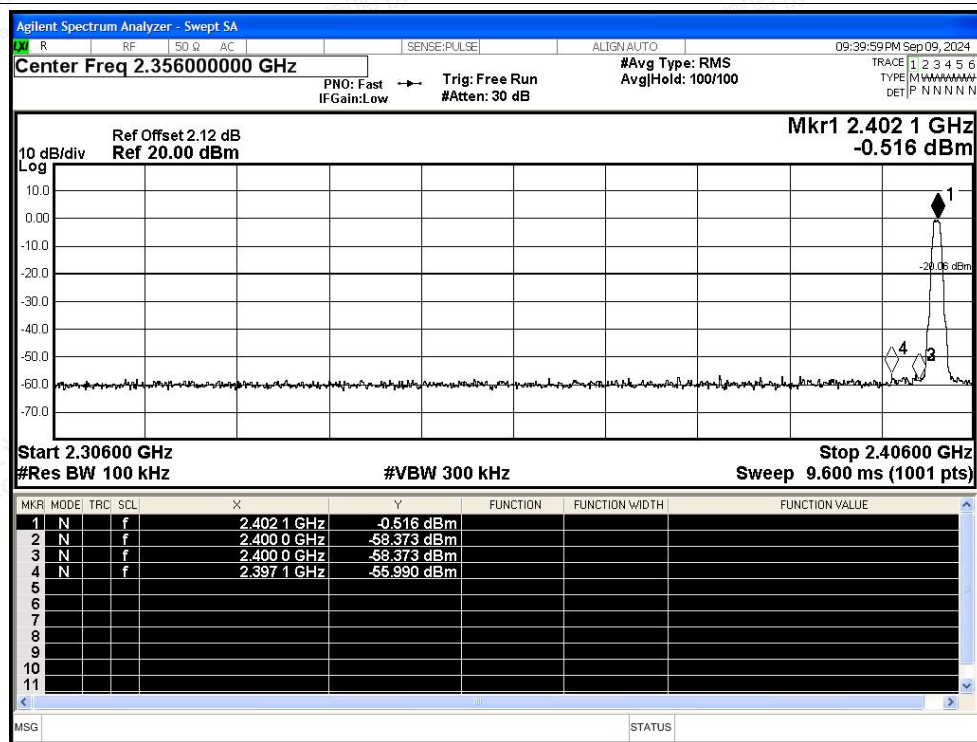


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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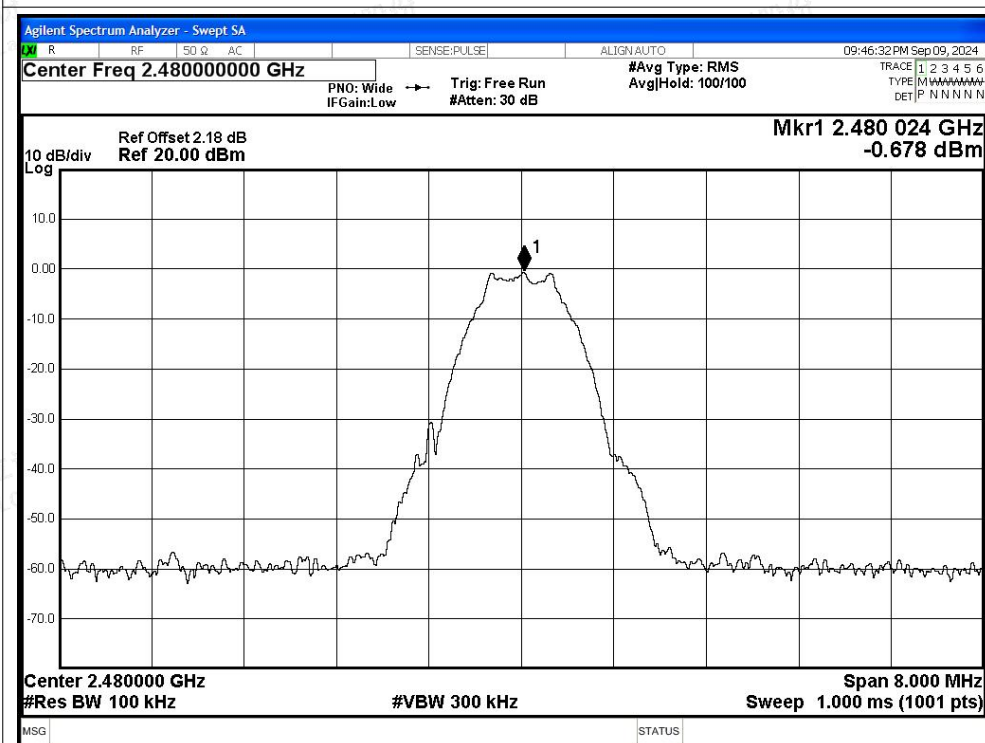
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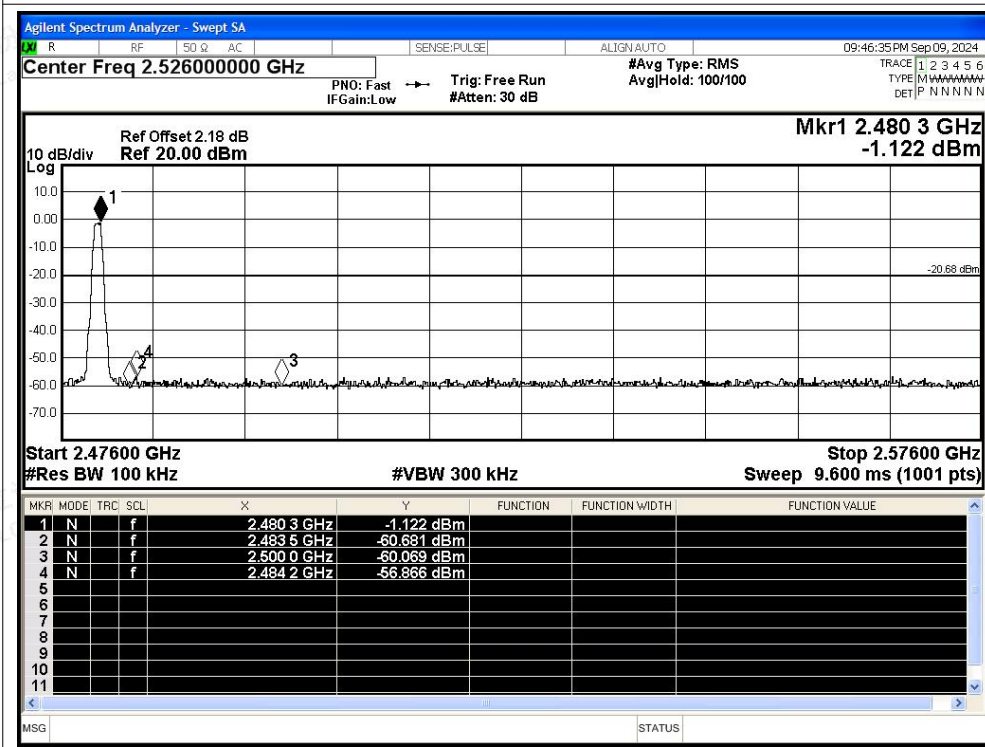
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



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	-55.52	-20	Pass
NVNT	BLE 1M	2440	Ant1	-54.13	-20	Pass
NVNT	BLE 1M	2480	Ant1	-55.01	-20	Pass

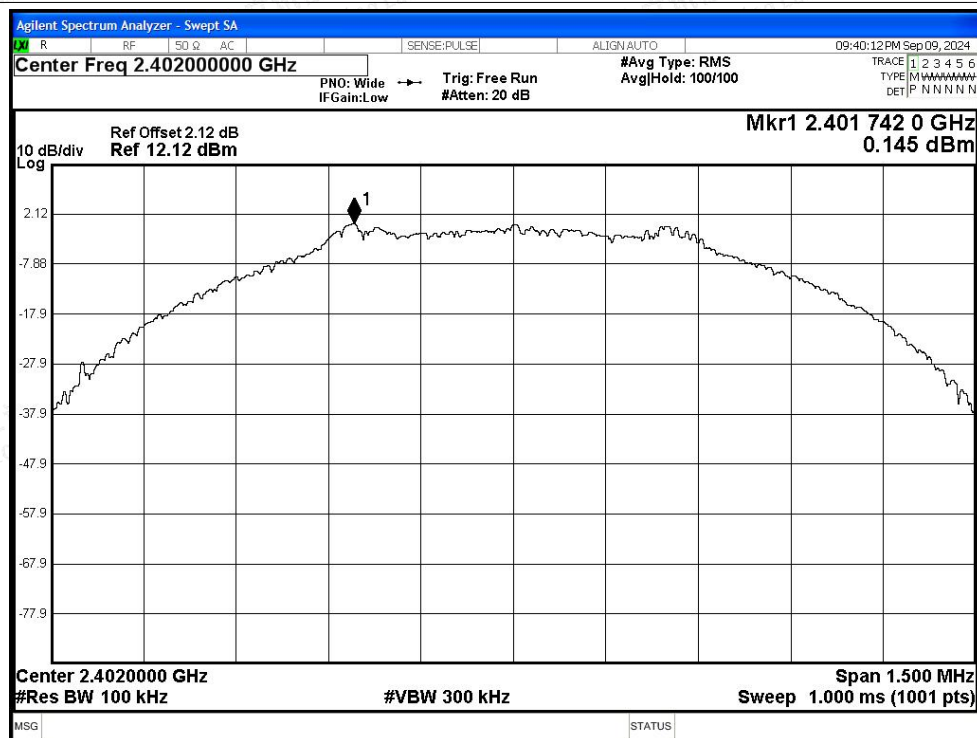


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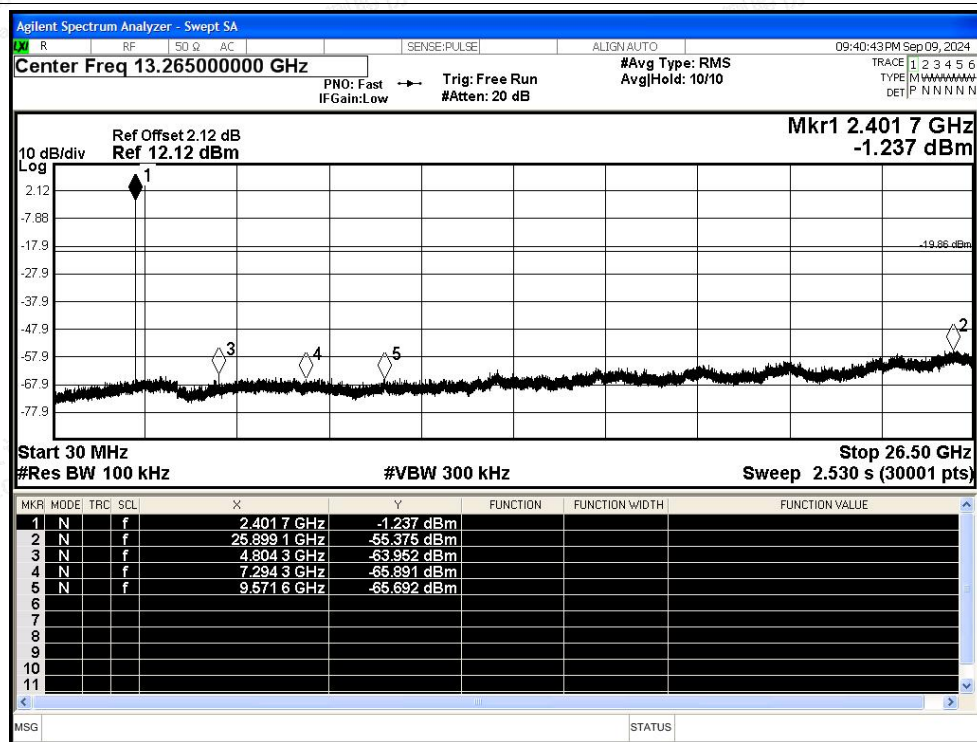


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

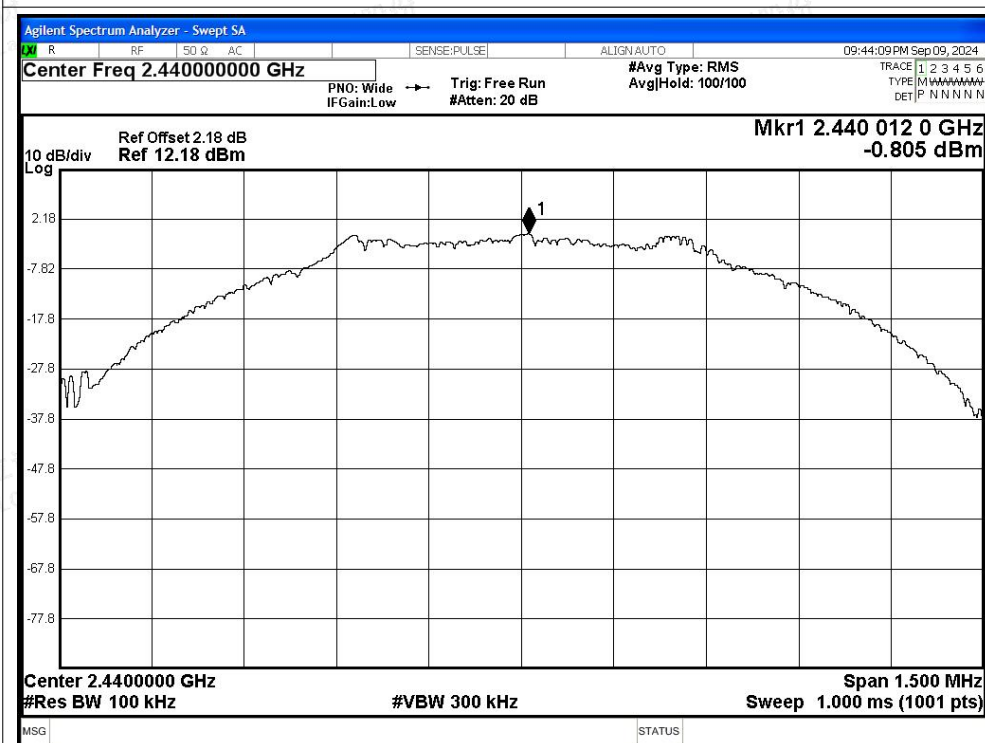
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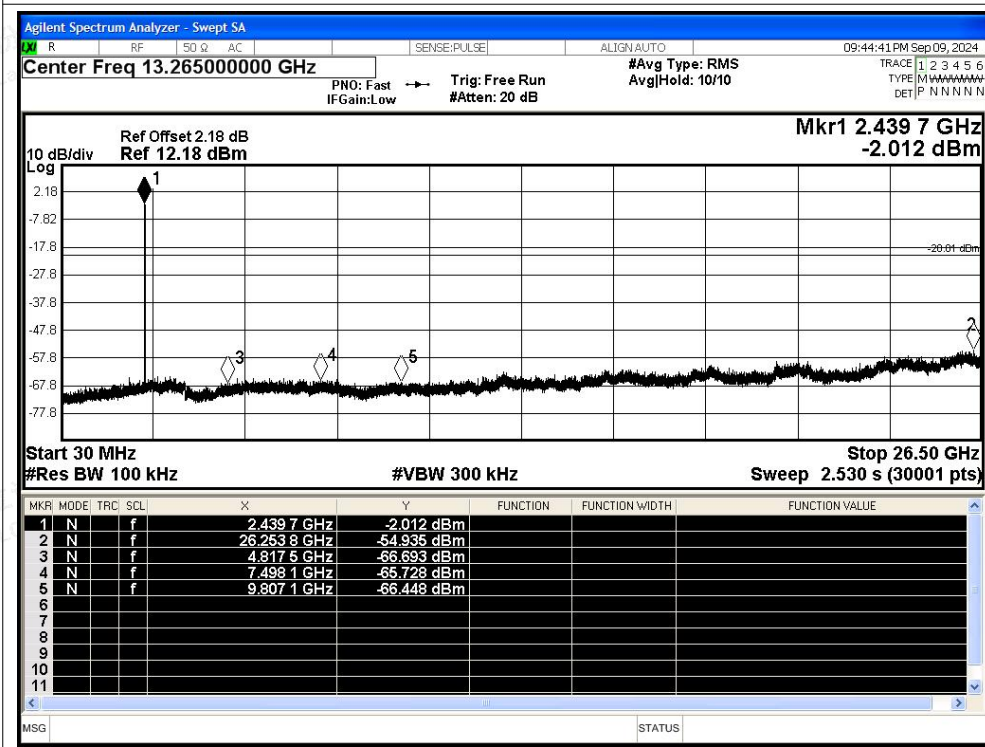
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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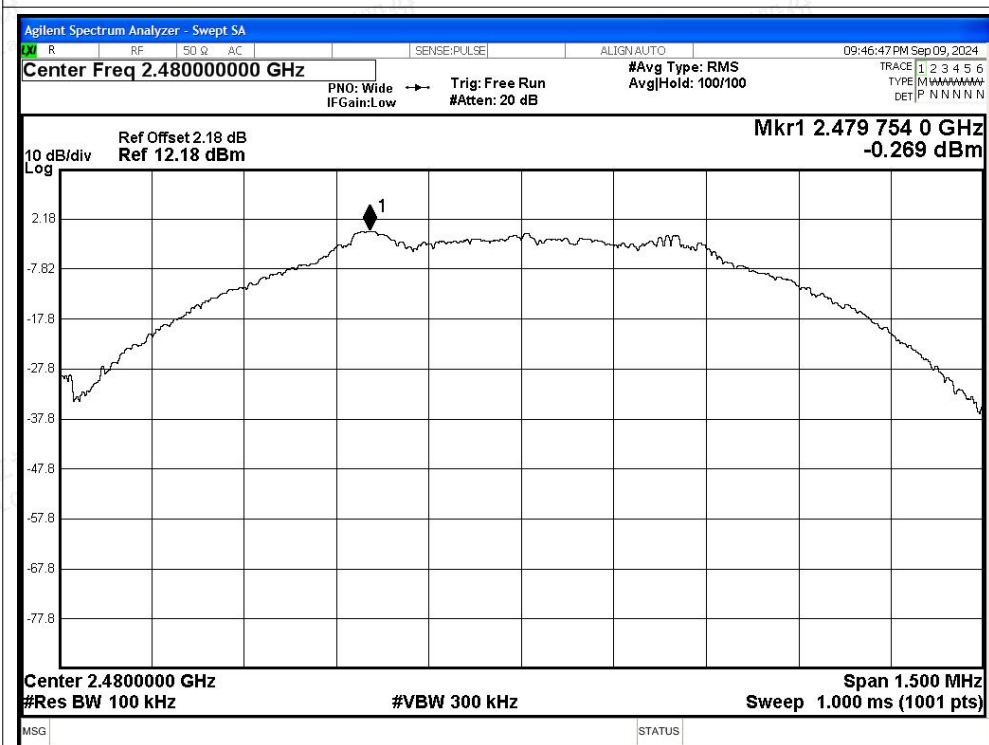
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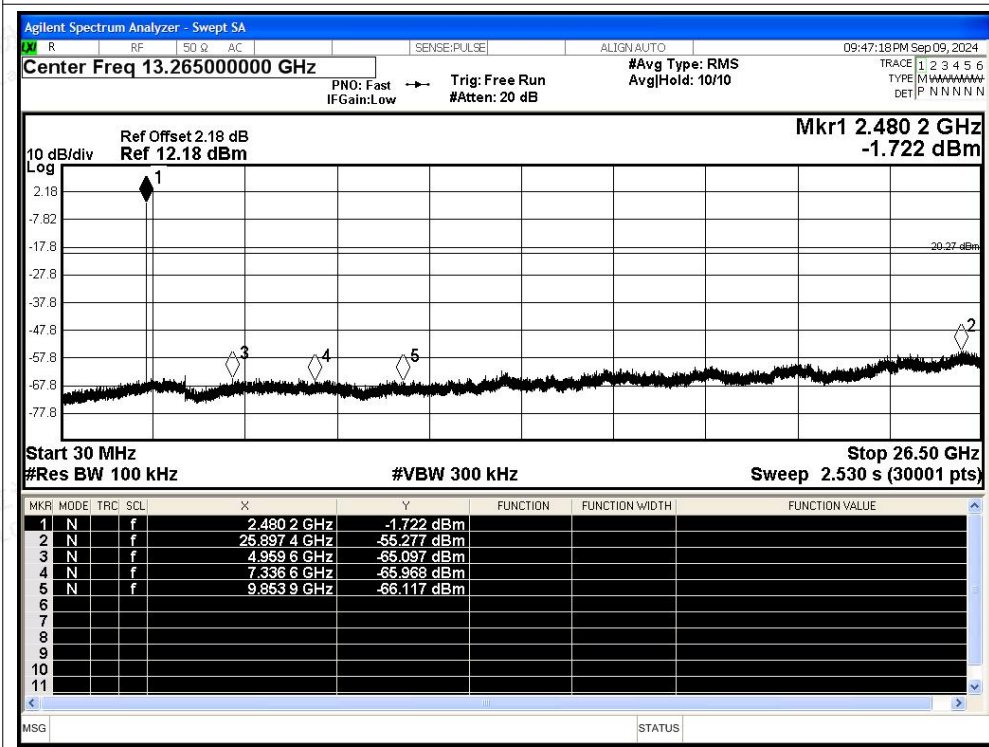
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



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

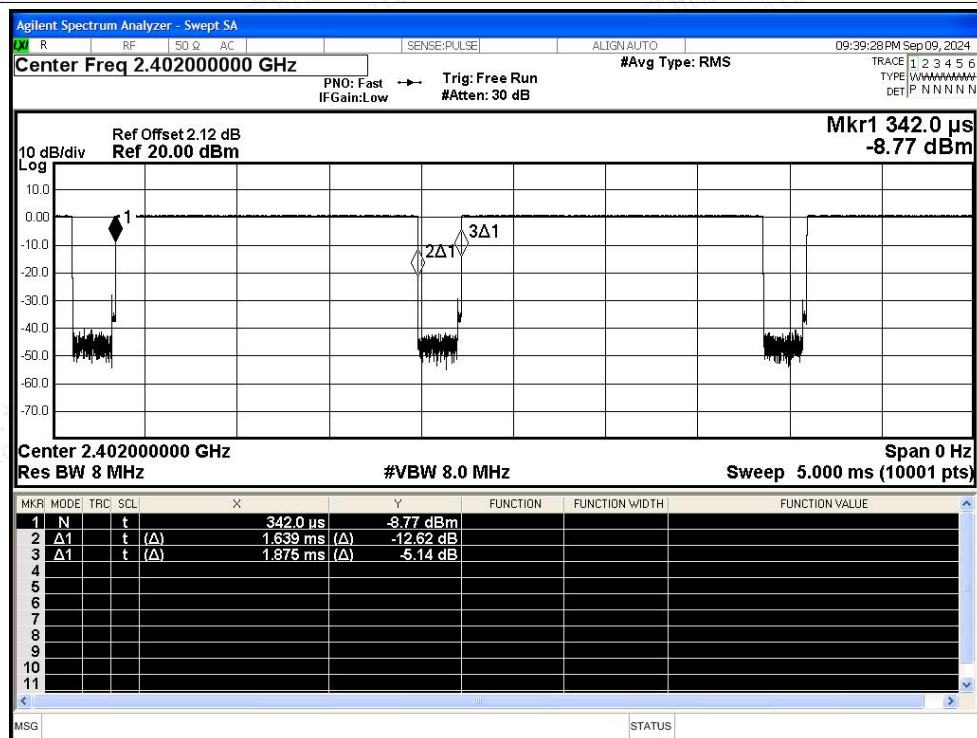


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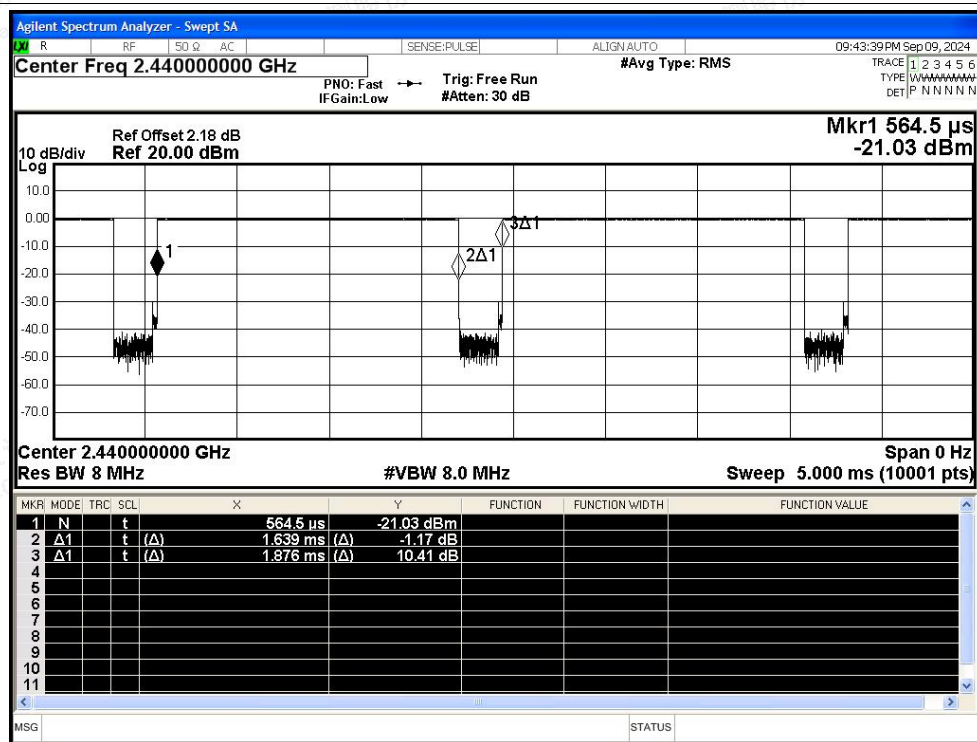


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

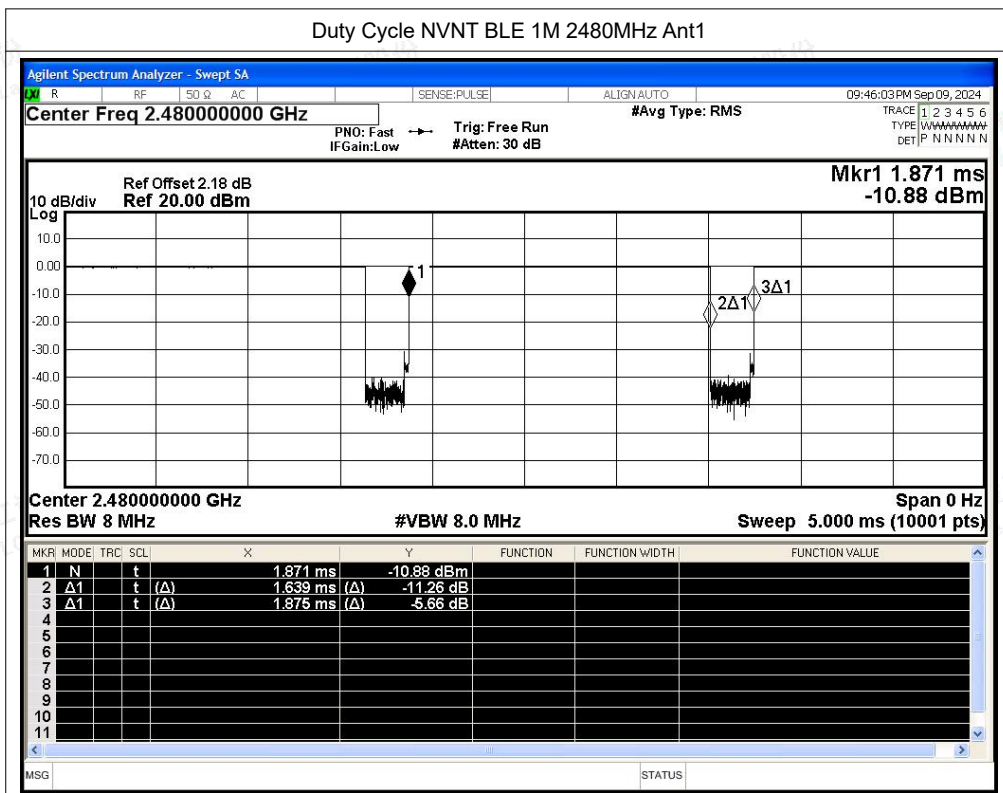


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B.7 Restrict Band

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	-51.31	2	-	45.95	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.73	2	0.59	39.12	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2349.456	-47.15	2	-	50.11	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2312.976	-57.69	2	0.59	40.16	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.09	2	-	48.17	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.2	2	0.59	39.65	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-49.63	2	-	47.63	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.5	2	0.59	40.35	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2491.96	-46.55	2	-	50.71	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2489.8	-57.12	2	0.59	40.73	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.23	2	-	47.03	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.18	2	0.59	39.67	Average	54	Pass

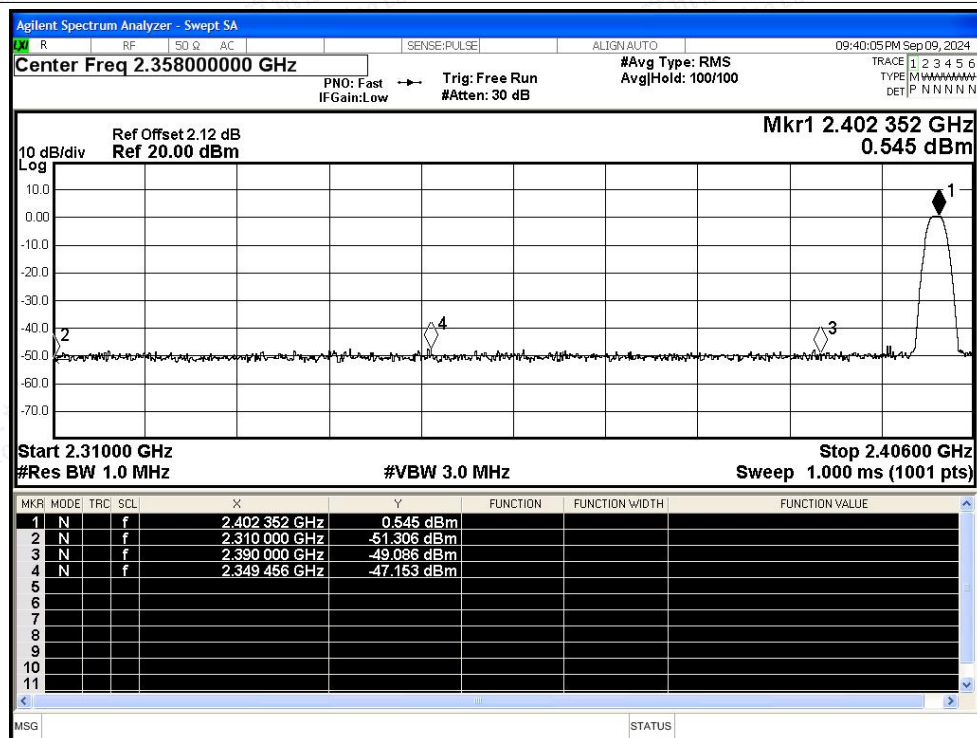


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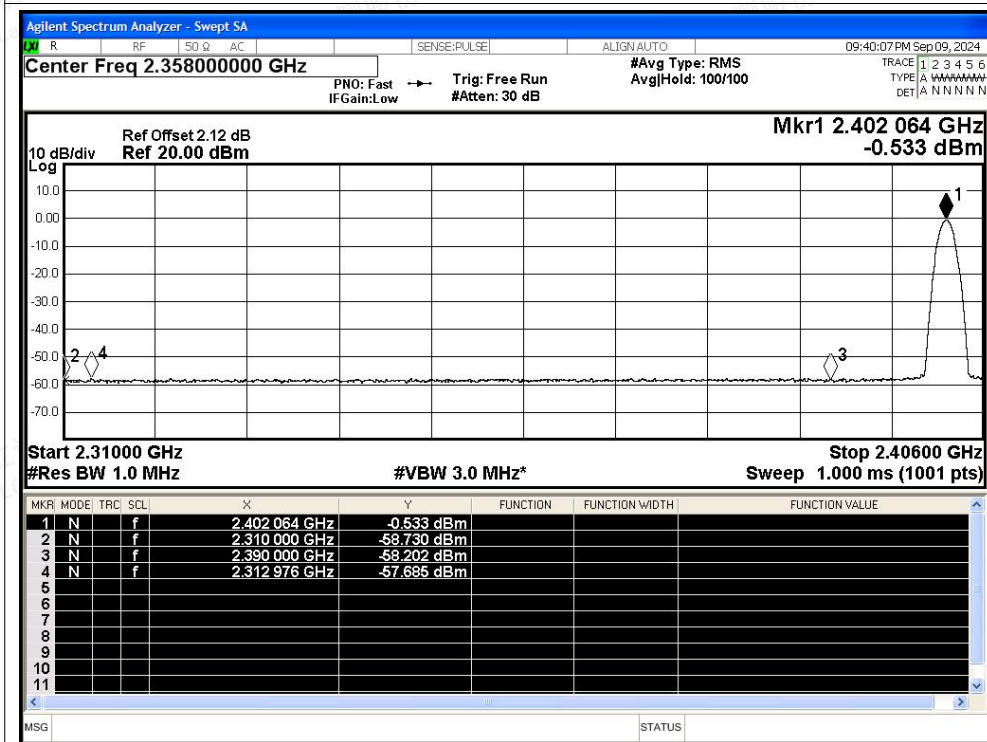


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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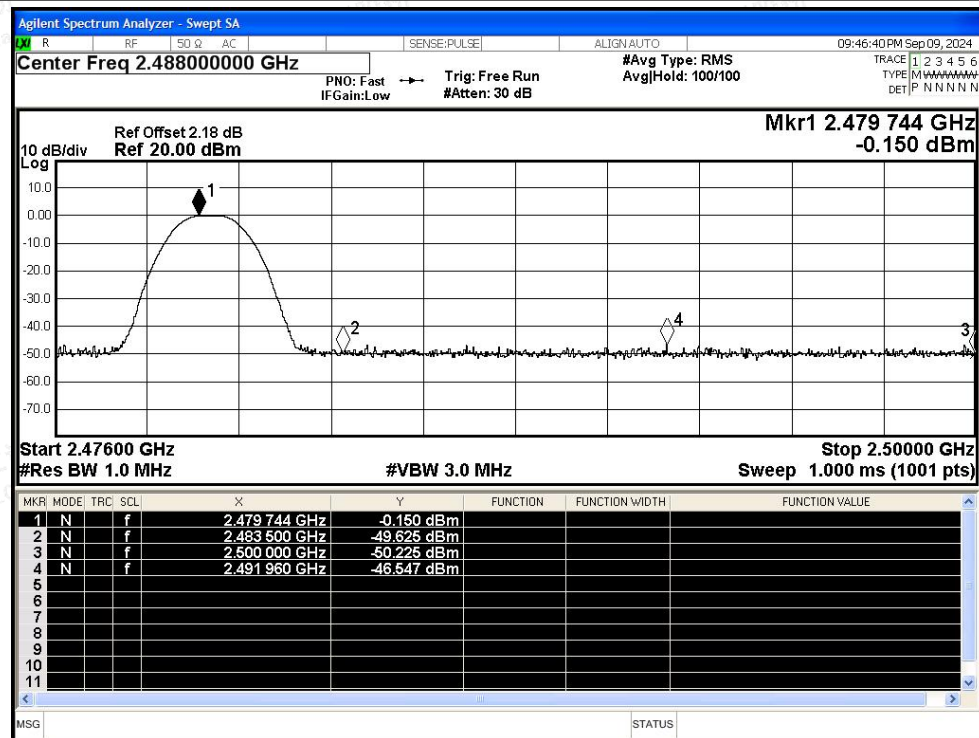
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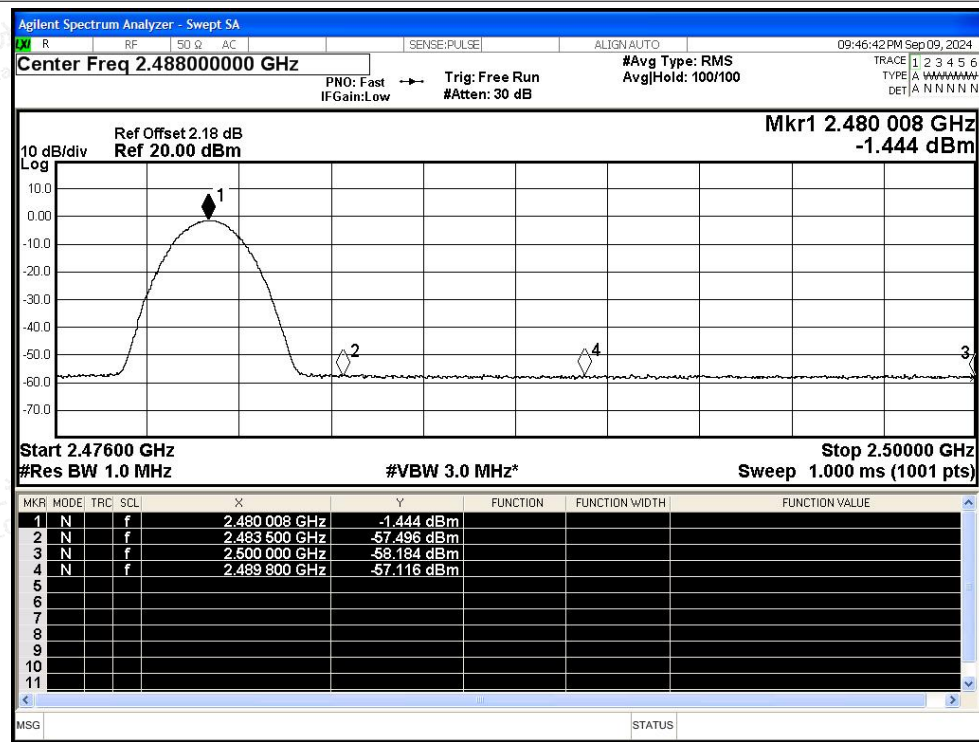
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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