



Appendix B

RF Test Data for BT LE(Conducted Measurement)

Product Name: POC radio/4G Network intercom

Test Model: CJ-1UV

Environmental Conditions

Temperature:	23.4°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Paddi Chen



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B.1 -6dB Bandwidth

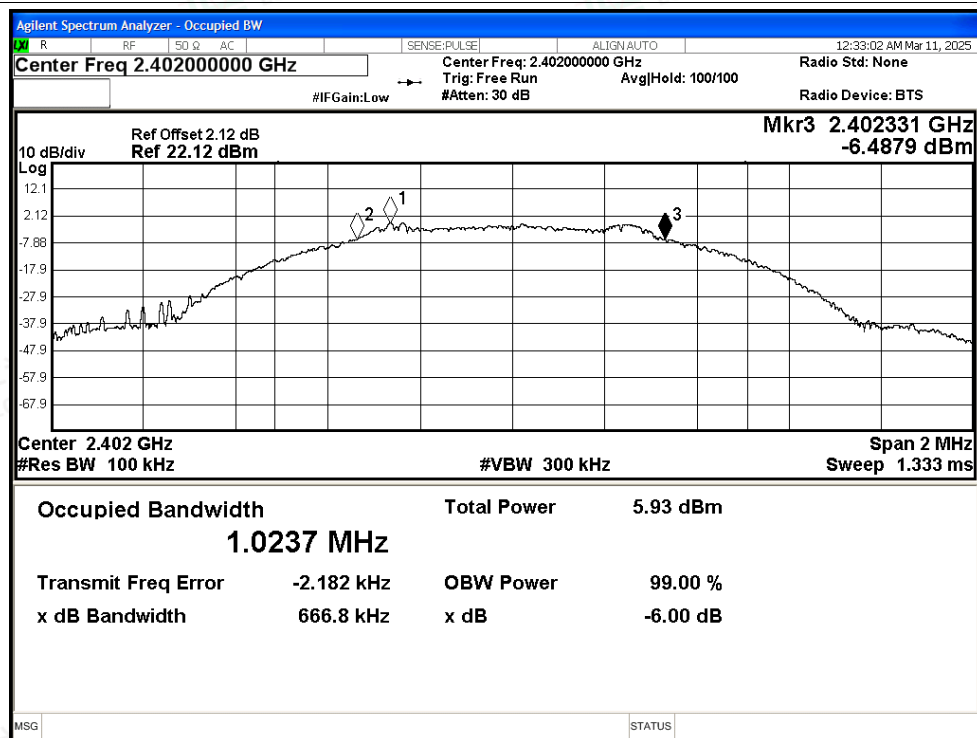
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.667	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.648	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.7	≥ 0.5	Pass



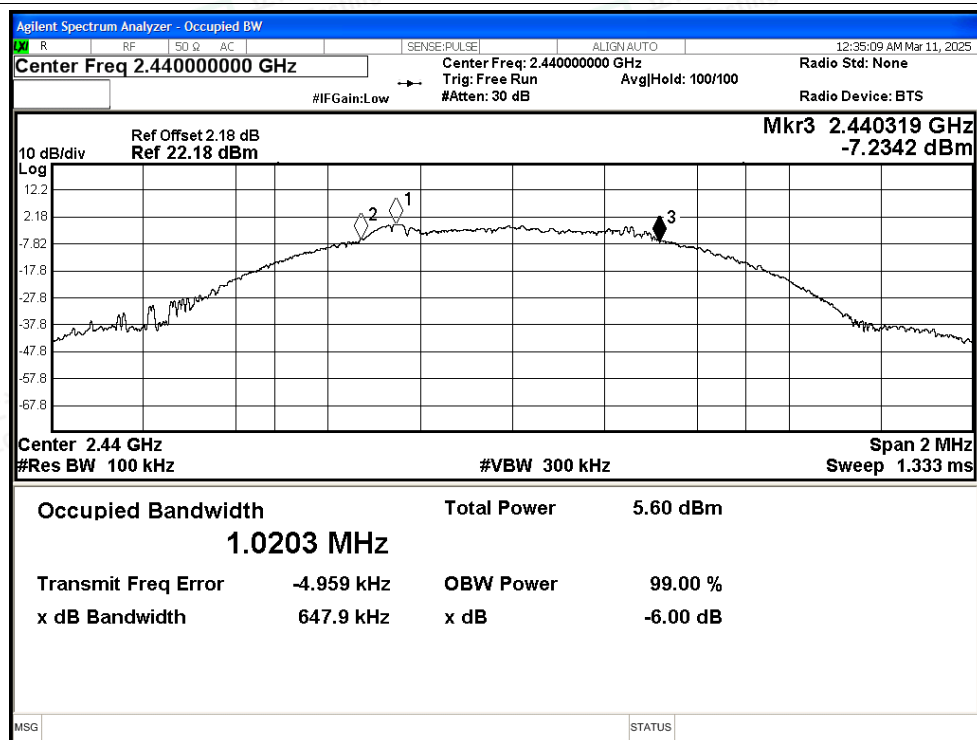


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

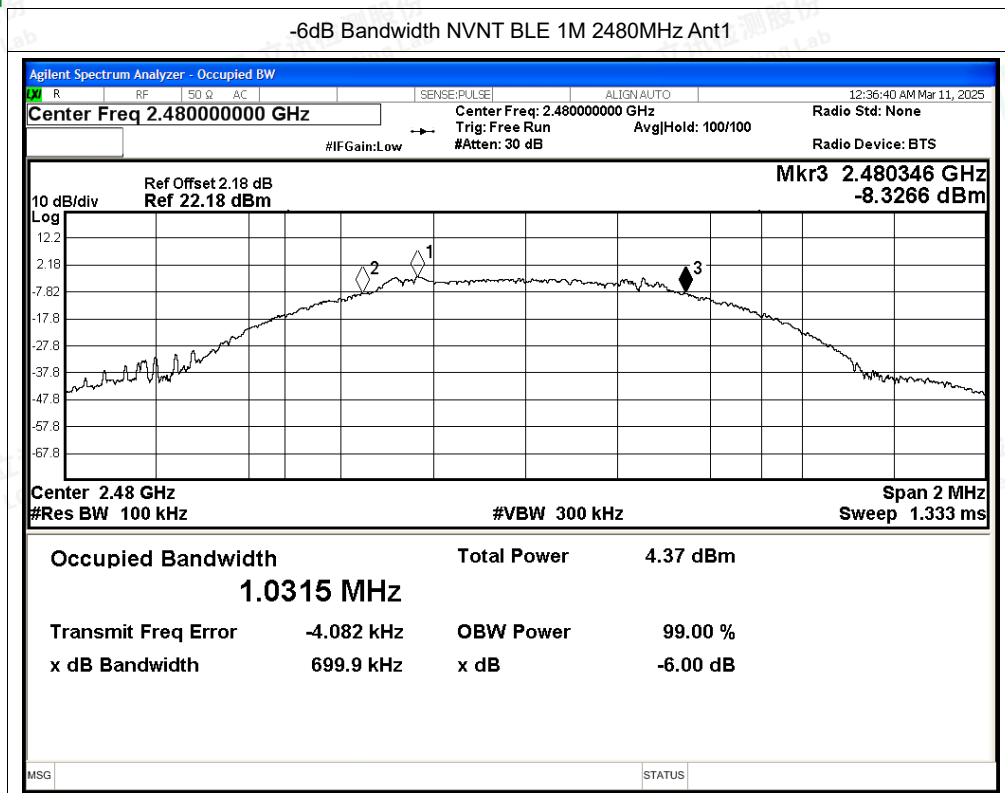


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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.07	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.22	30	Pass
NVNT	BLE 1M	2480	Ant1	-1.27	30	Pass

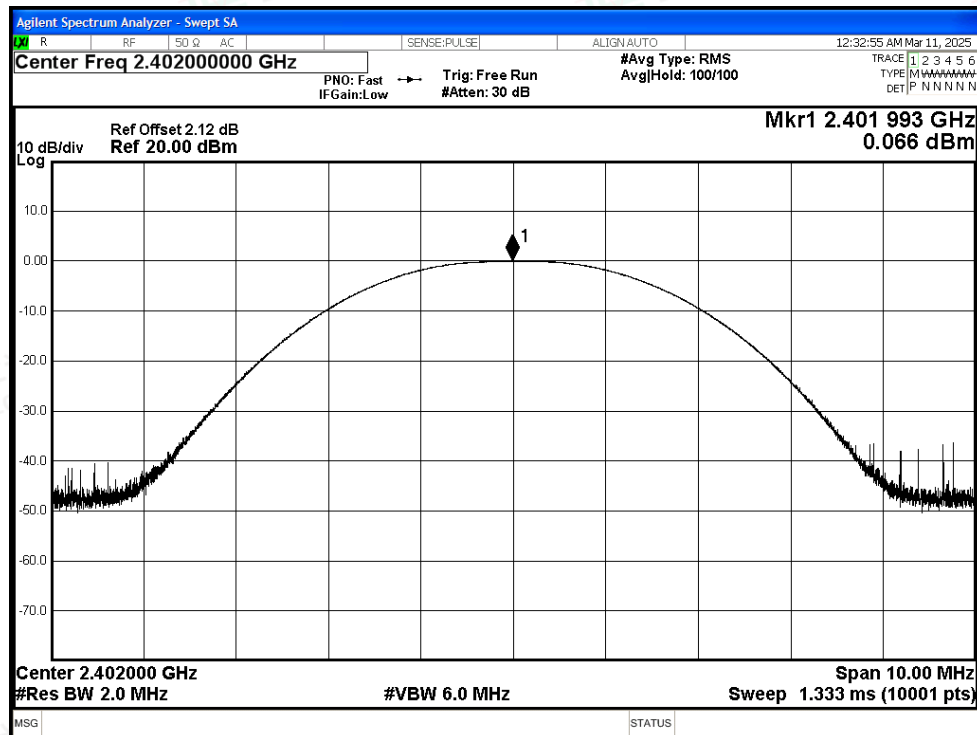


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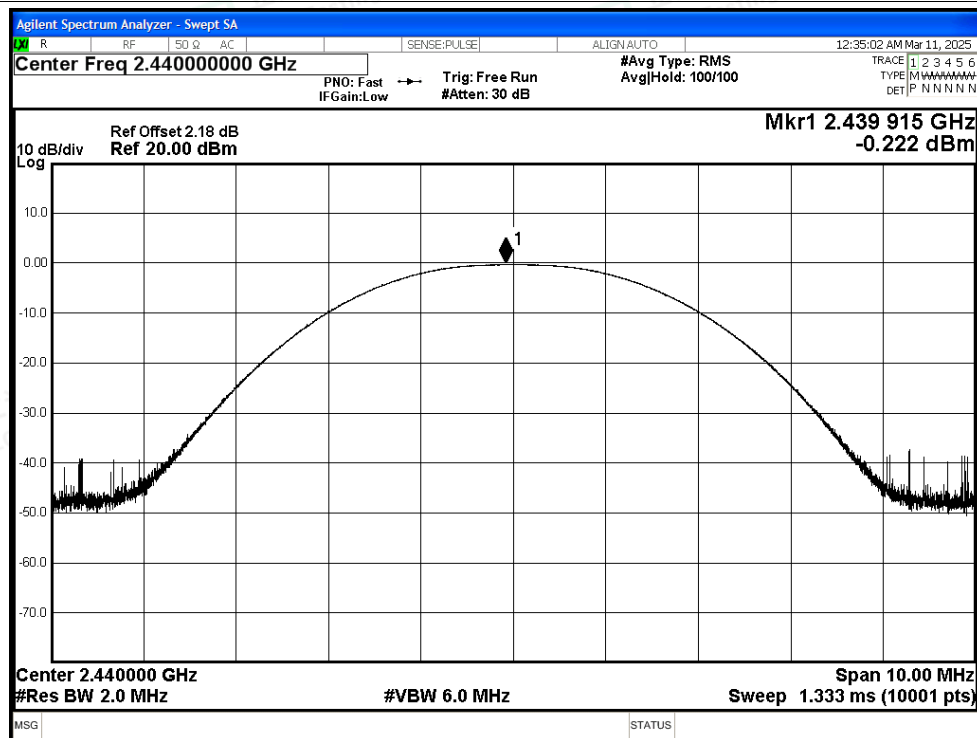


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

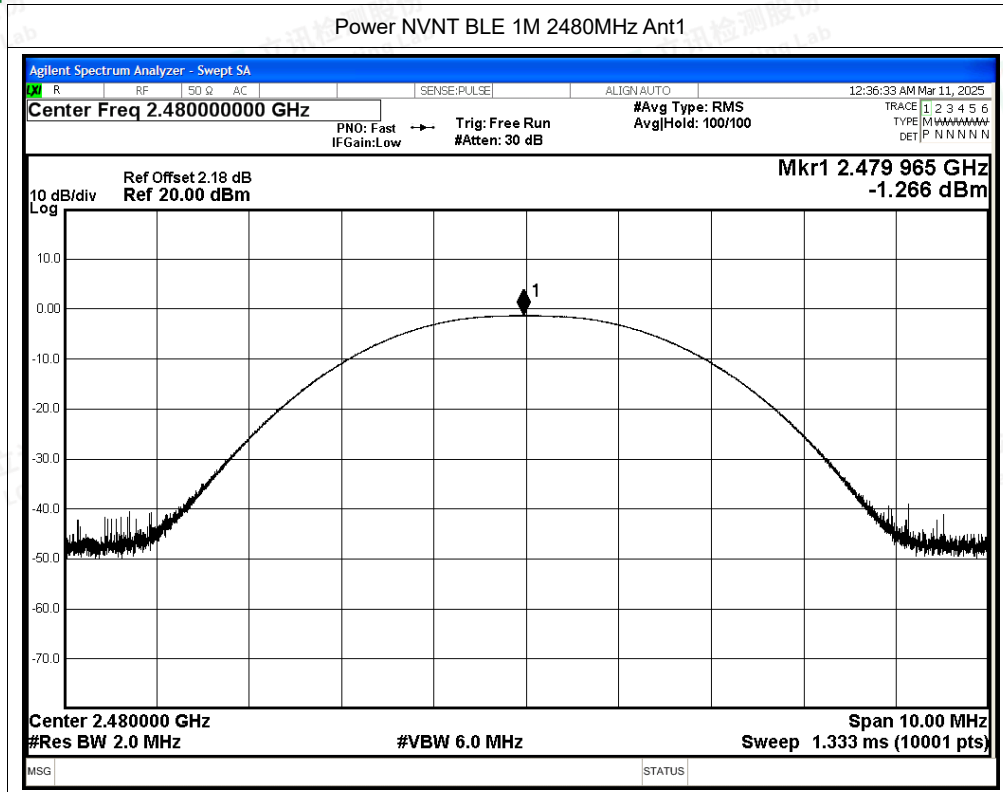


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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-16.7	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.81	8	Pass
NVNT	BLE 1M	2480	Ant1	-17.76	8	Pass

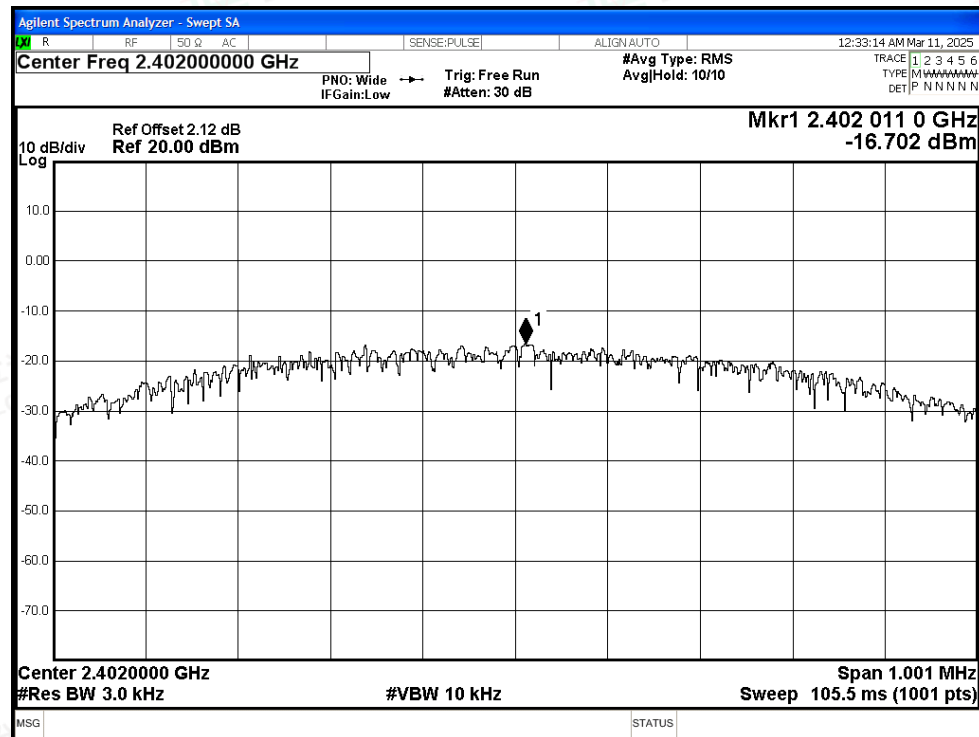


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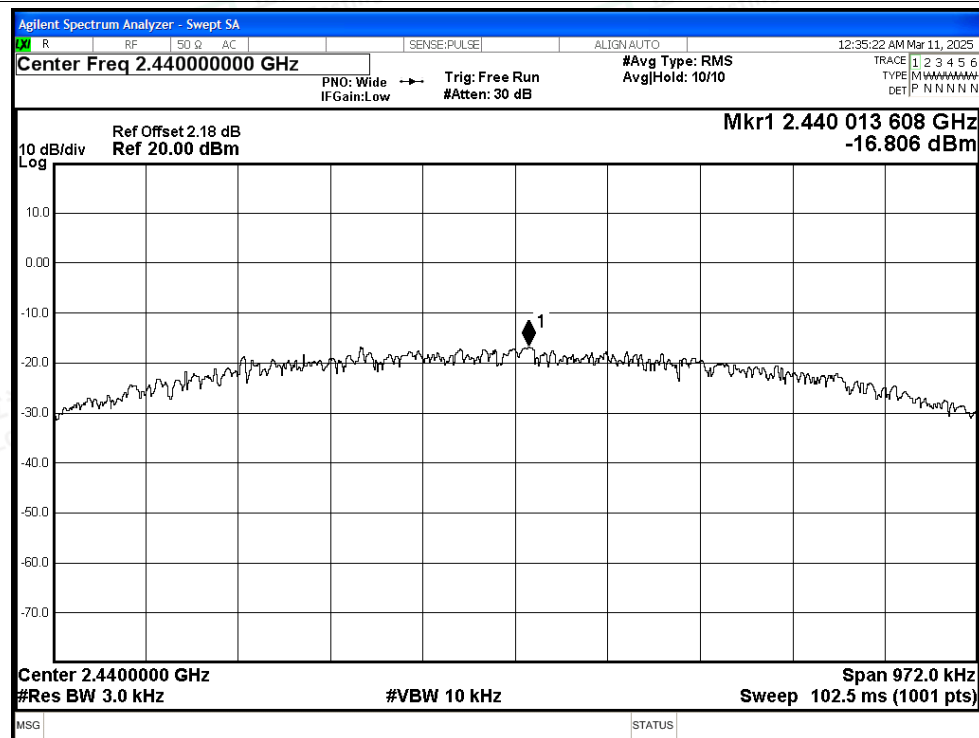


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

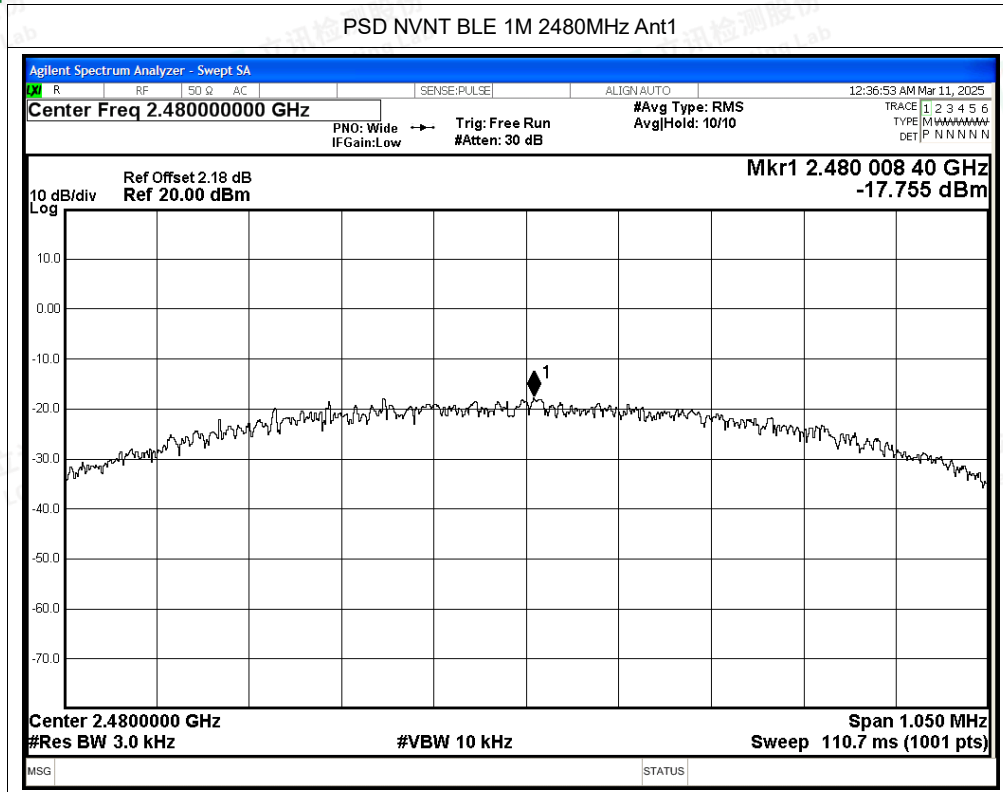


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-56.55	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.88	-20	Pass

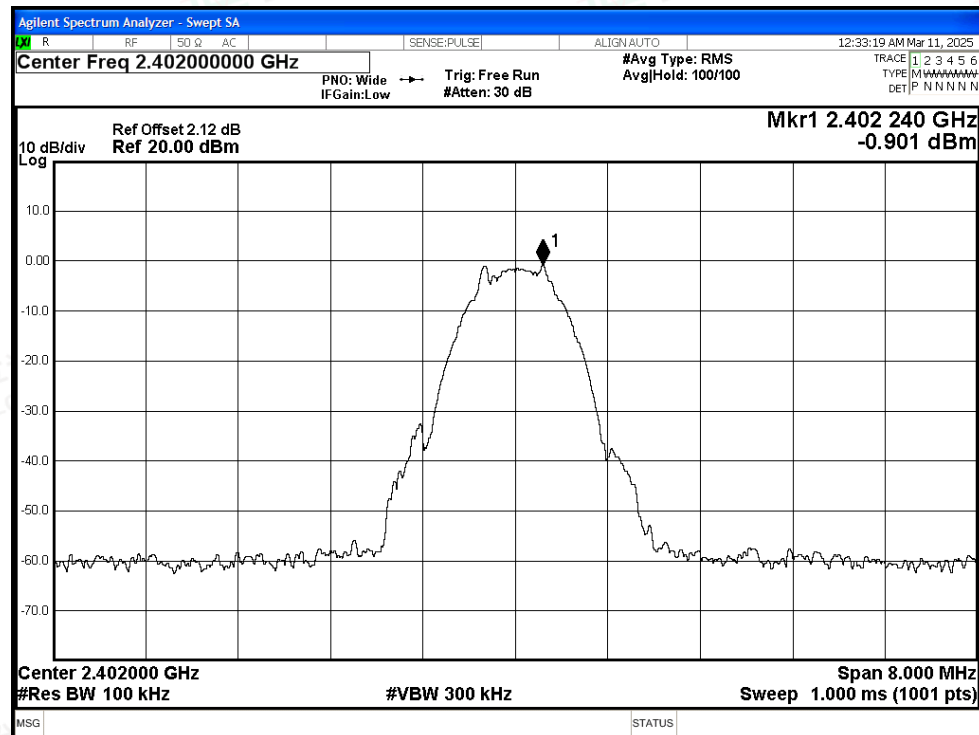


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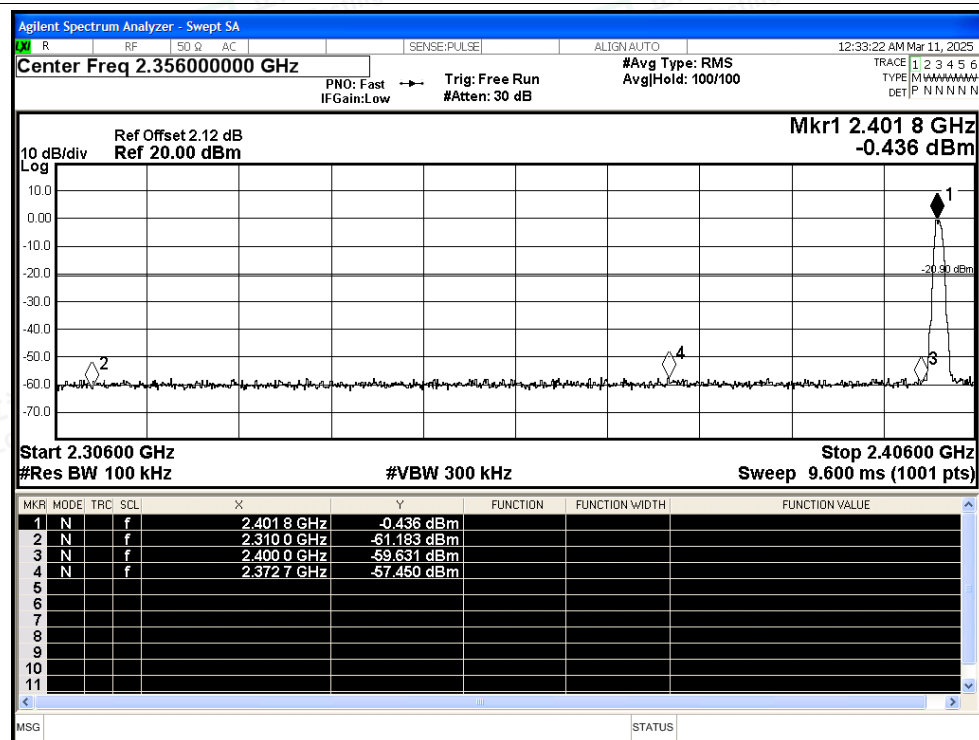


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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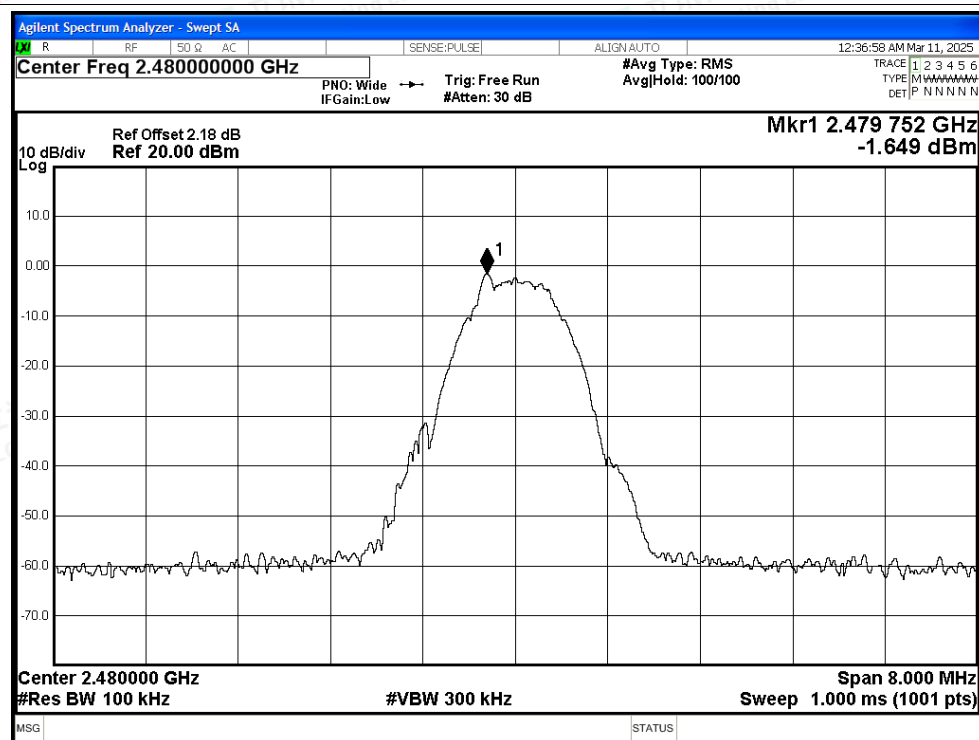
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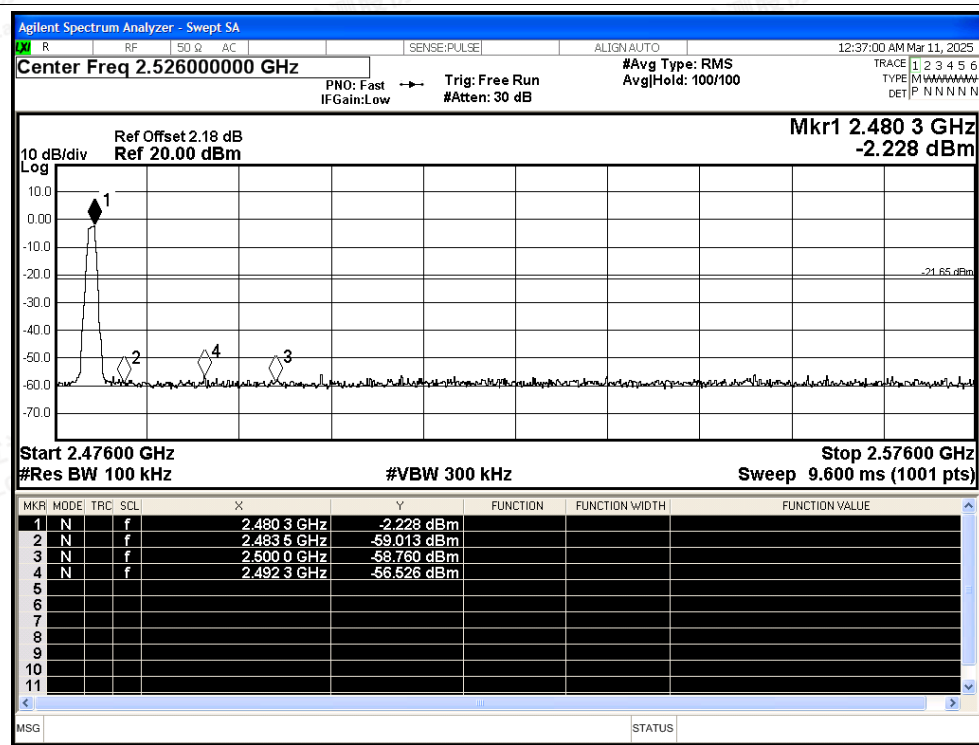
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



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	-55.14	-20	Pass
NVNT	BLE 1M	2440	Ant1	-54.93	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.36	-20	Pass

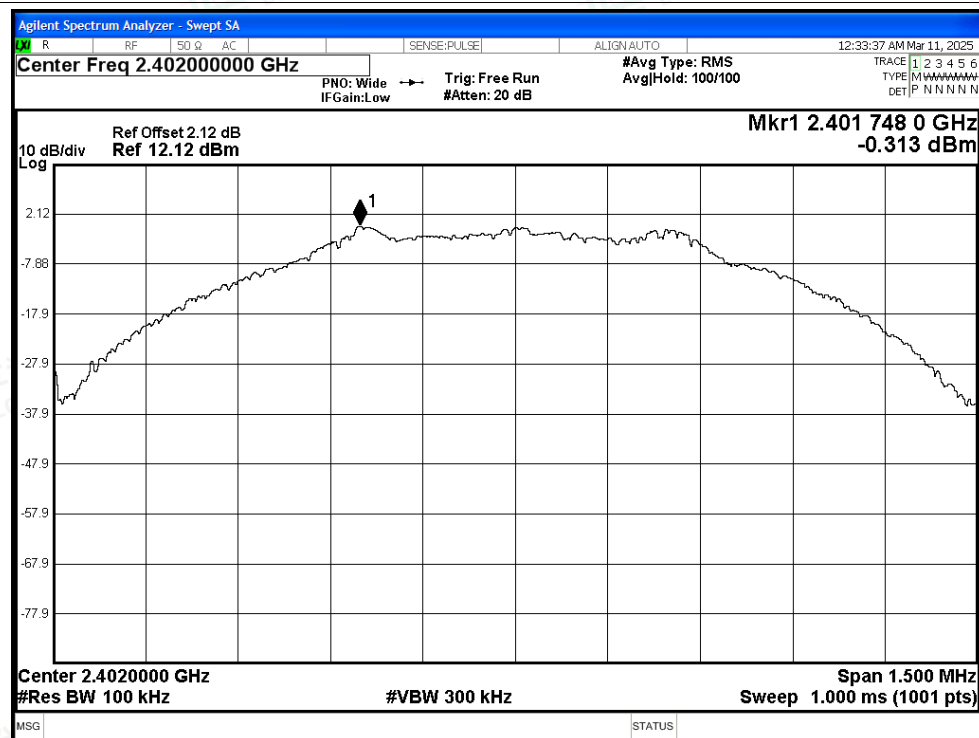


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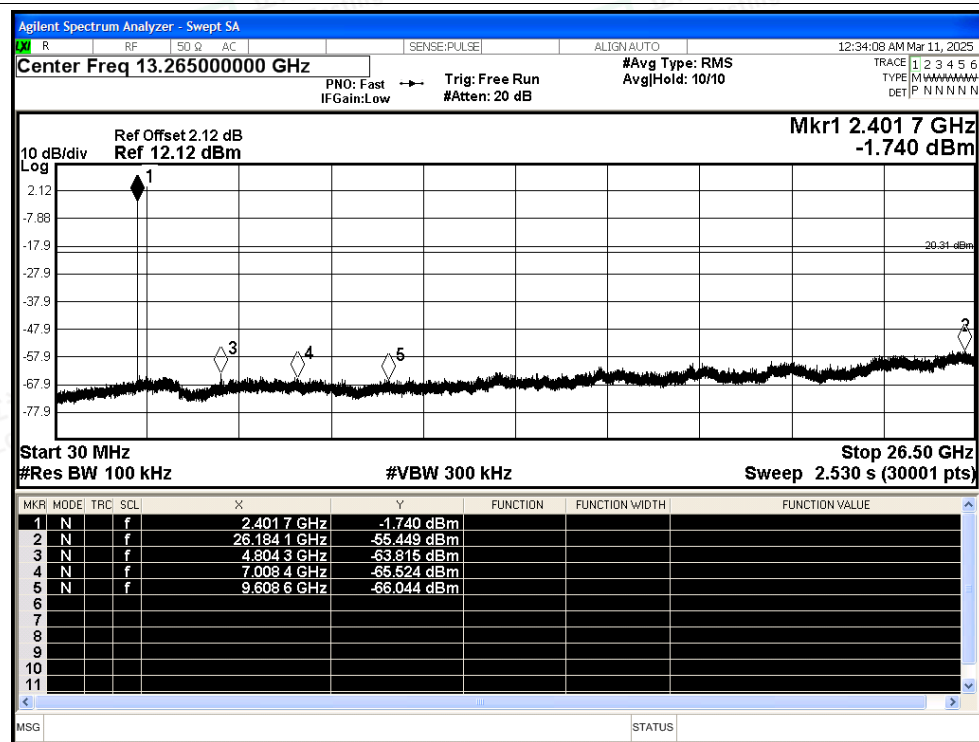


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

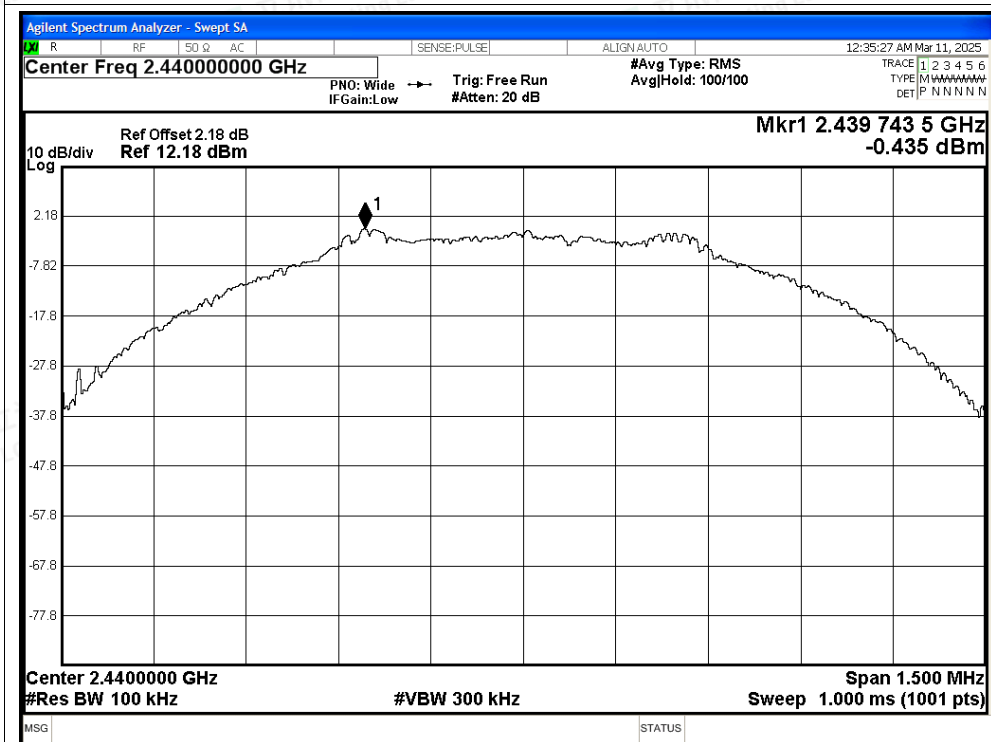
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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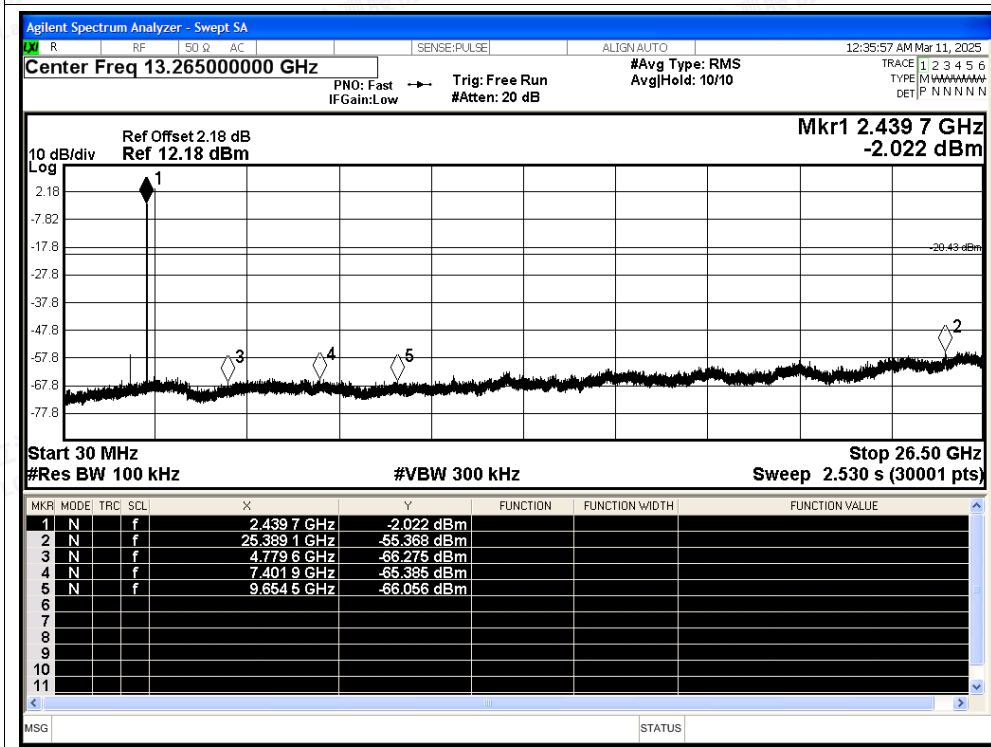
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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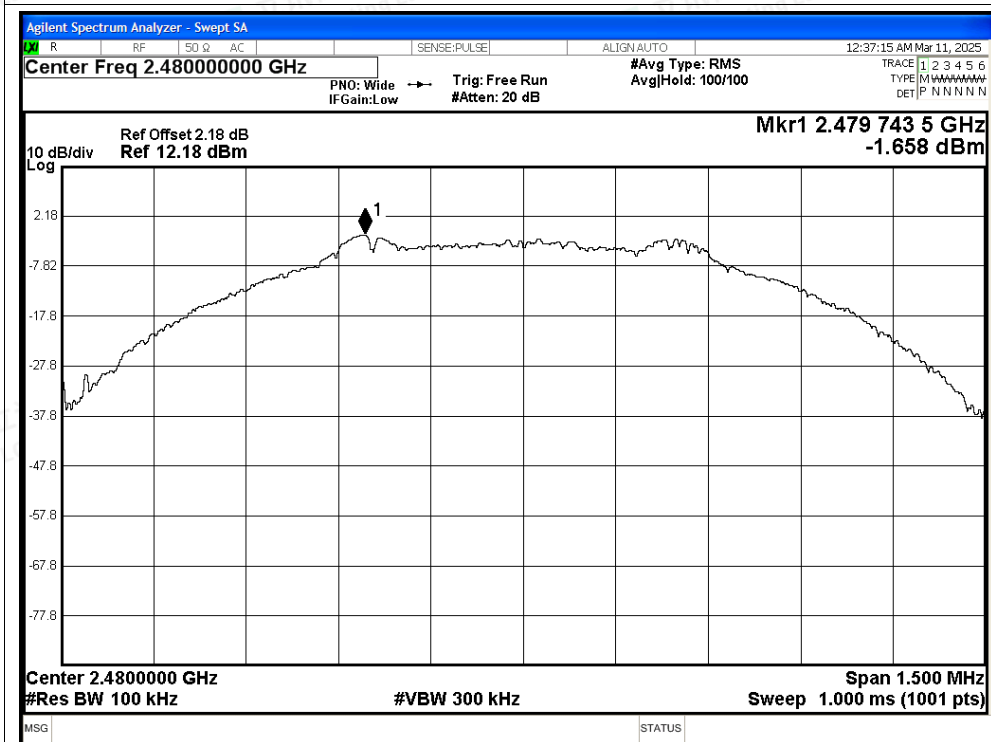
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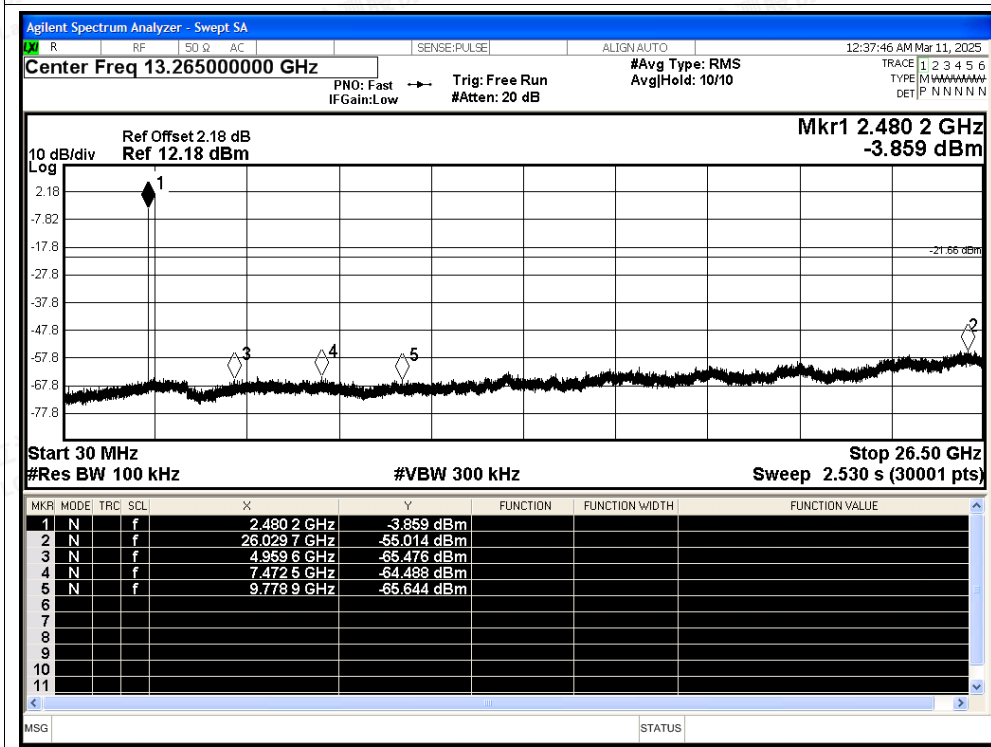
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



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

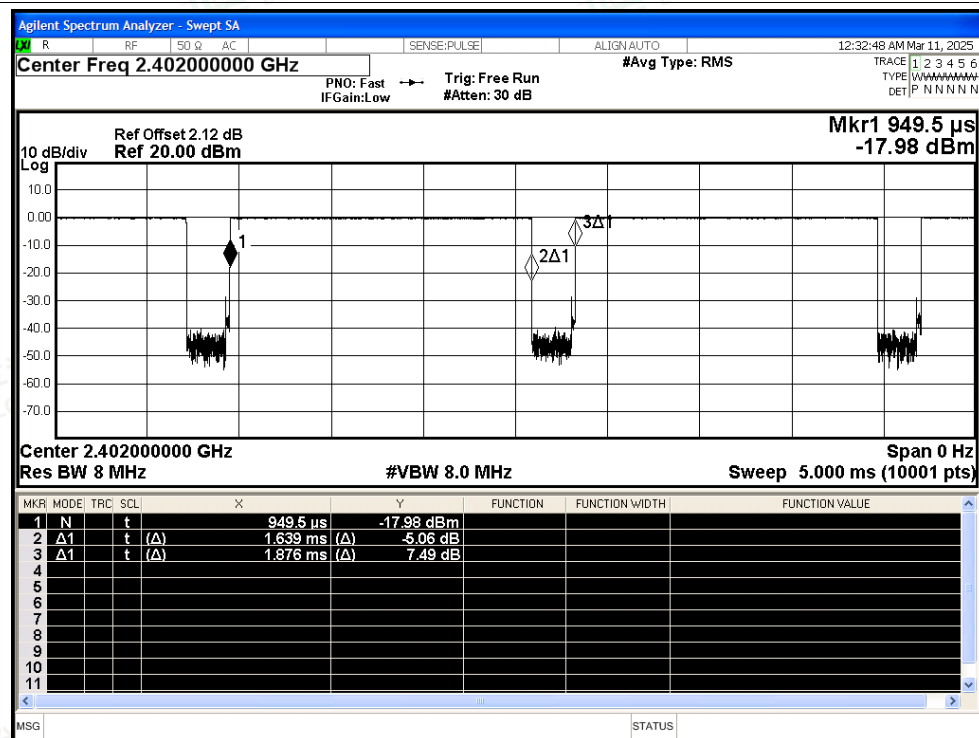


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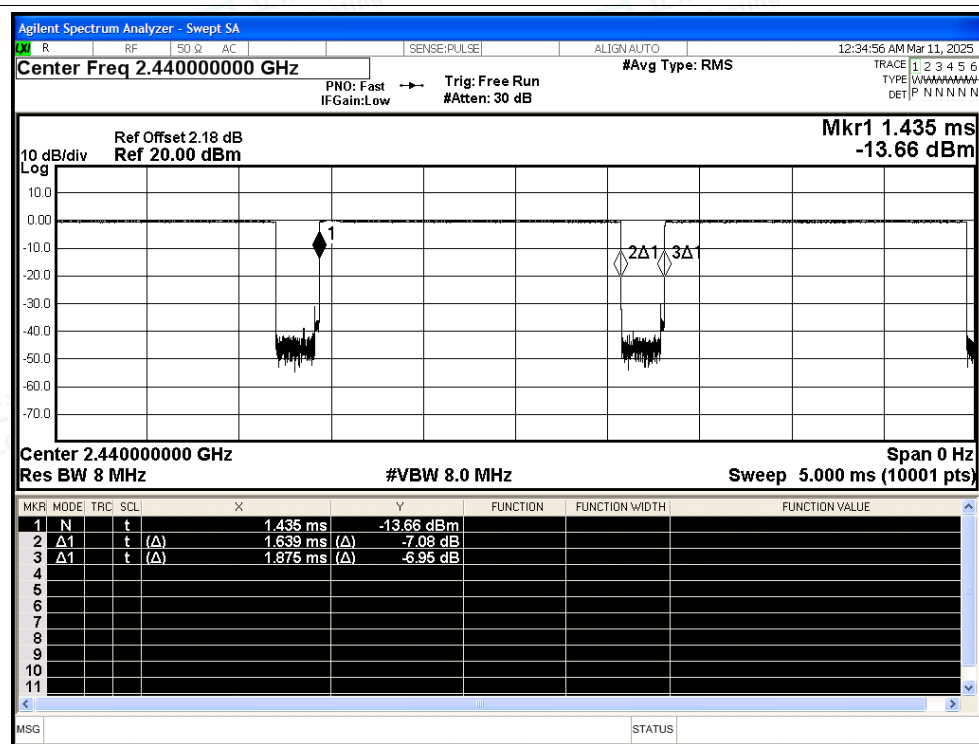


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

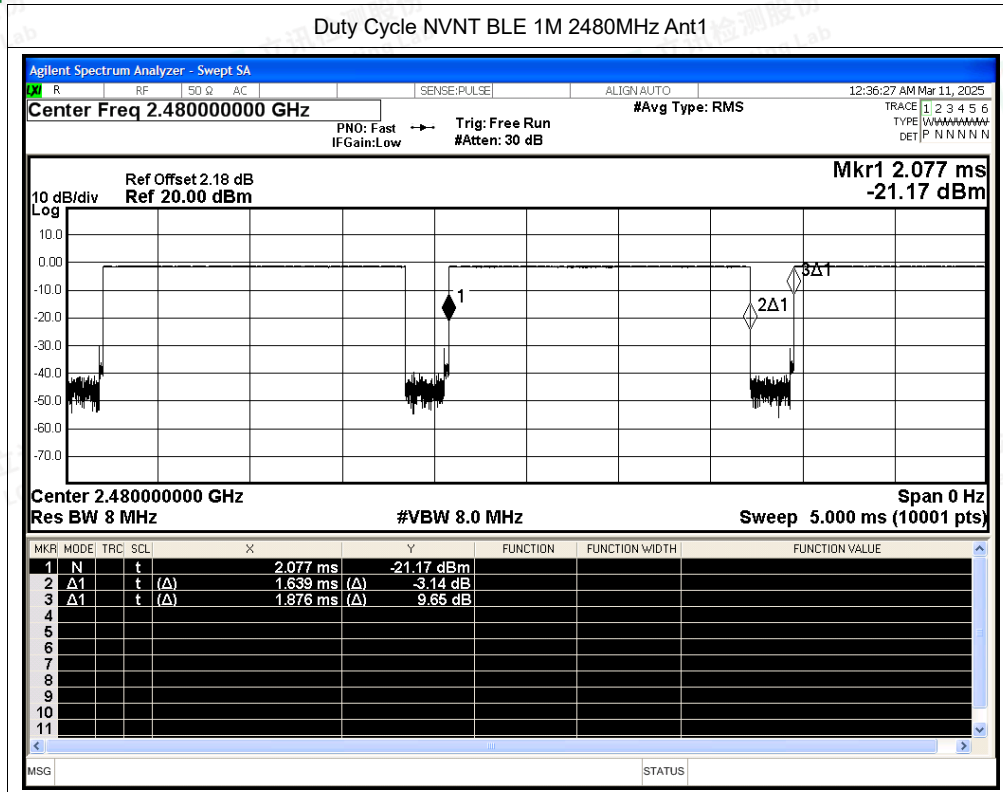


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B.7 Restrict Band

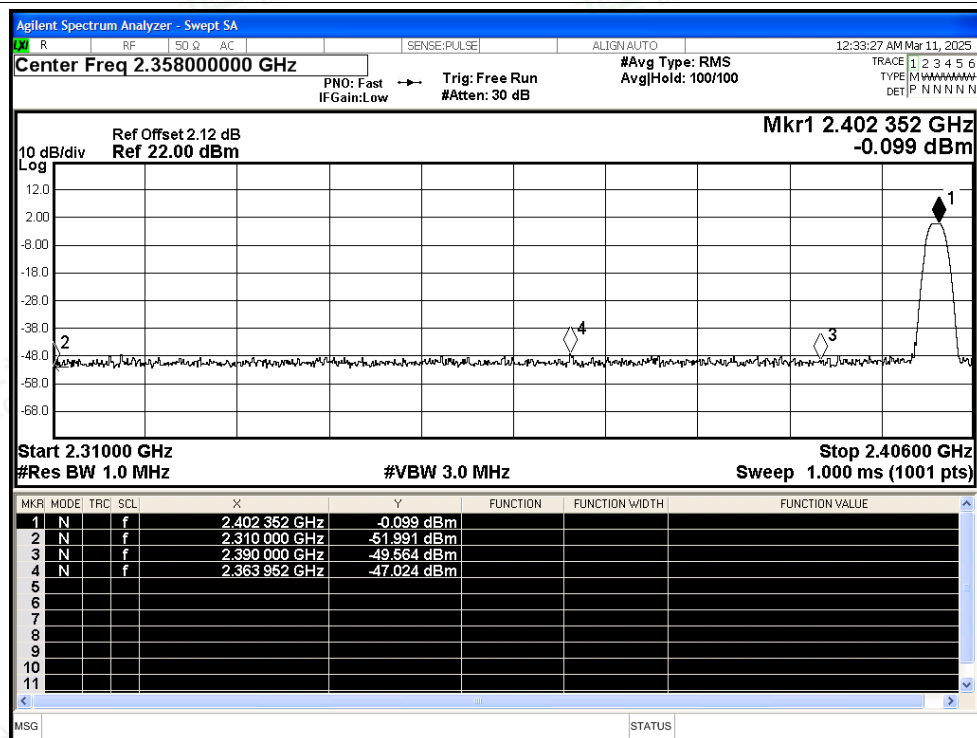
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.99	2	-	45.27	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.54	2	0.59	39.31	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2363.952	-47.02	2	-	50.24	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2387.472	-58.1	2	0.59	39.75	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.56	2	-	47.7	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.29	2	0.59	39.56	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.76	2	-	48.5	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.63	2	0.59	40.22	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2484.544	-44.8	2	-	52.46	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2484.472	-57.49	2	0.59	40.36	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-51.17	2	-	46.09	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.04	2	0.59	39.81	Average	54	Pass



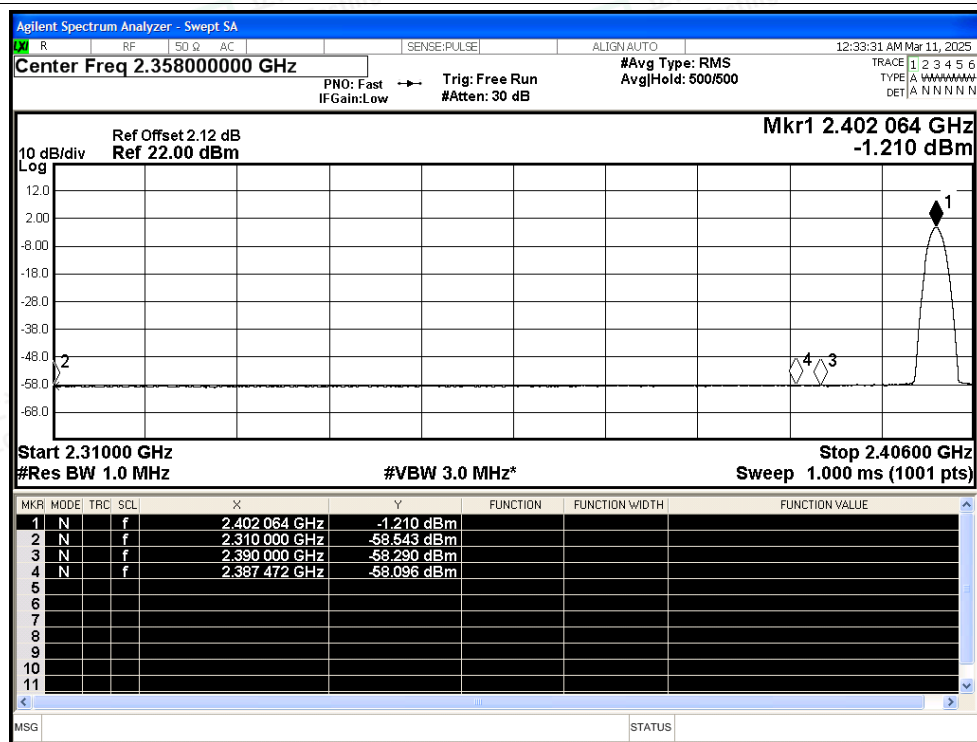


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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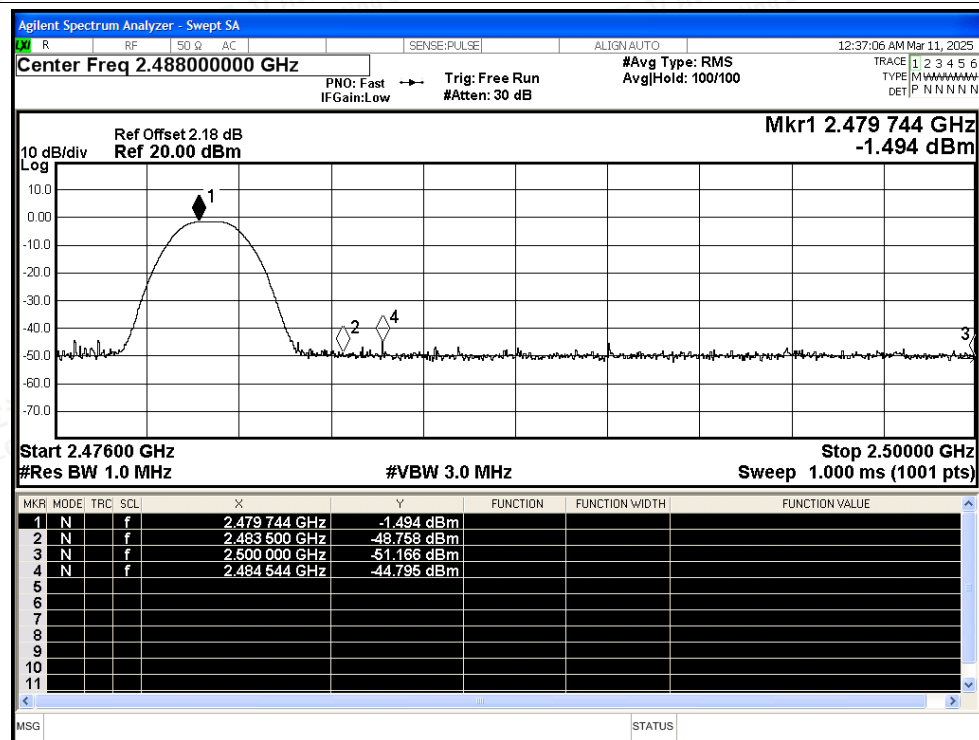
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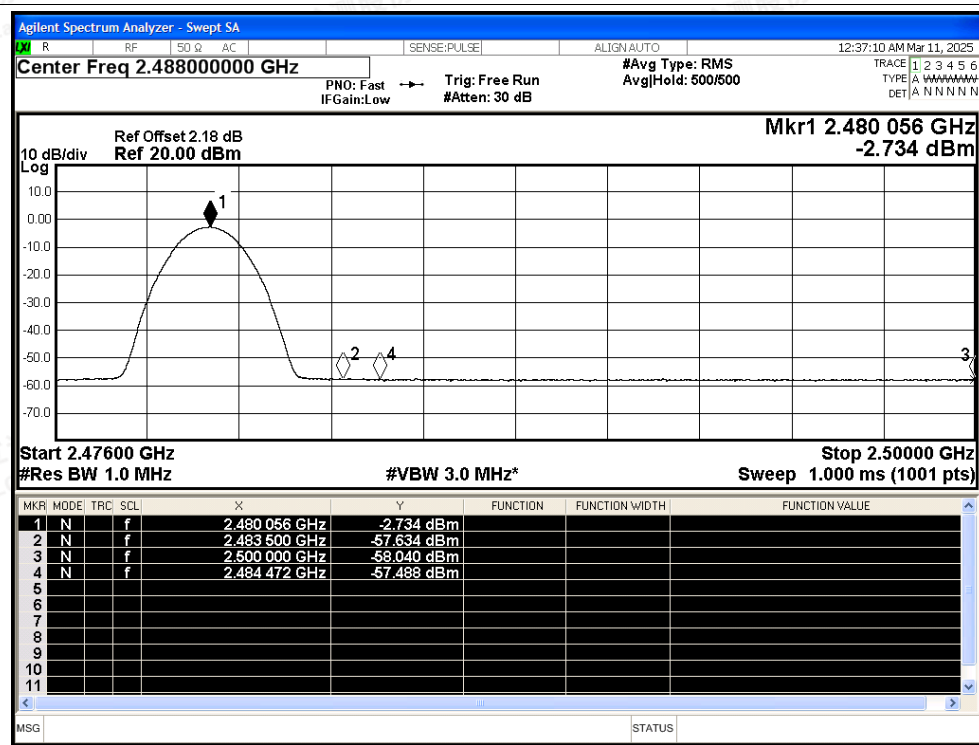
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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