



Appendix B

RF Test Data for 2.4G (Conducted Measurement)

Product Name: Bluetooth keyboard

Test Model: MK424Pro

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

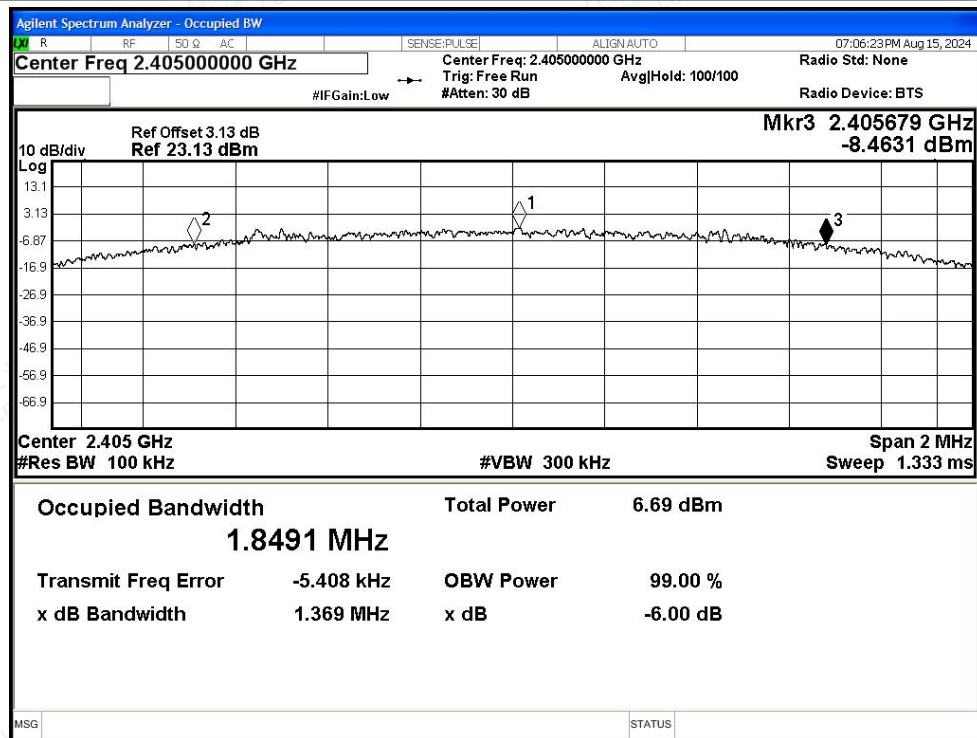
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2405	Ant1	1.369	≥ 0.5	Pass
NVNT	2.4G	2440	Ant1	1.376	≥ 0.5	Pass
NVNT	2.4G	2476	Ant1	1.341	≥ 0.5	Pass



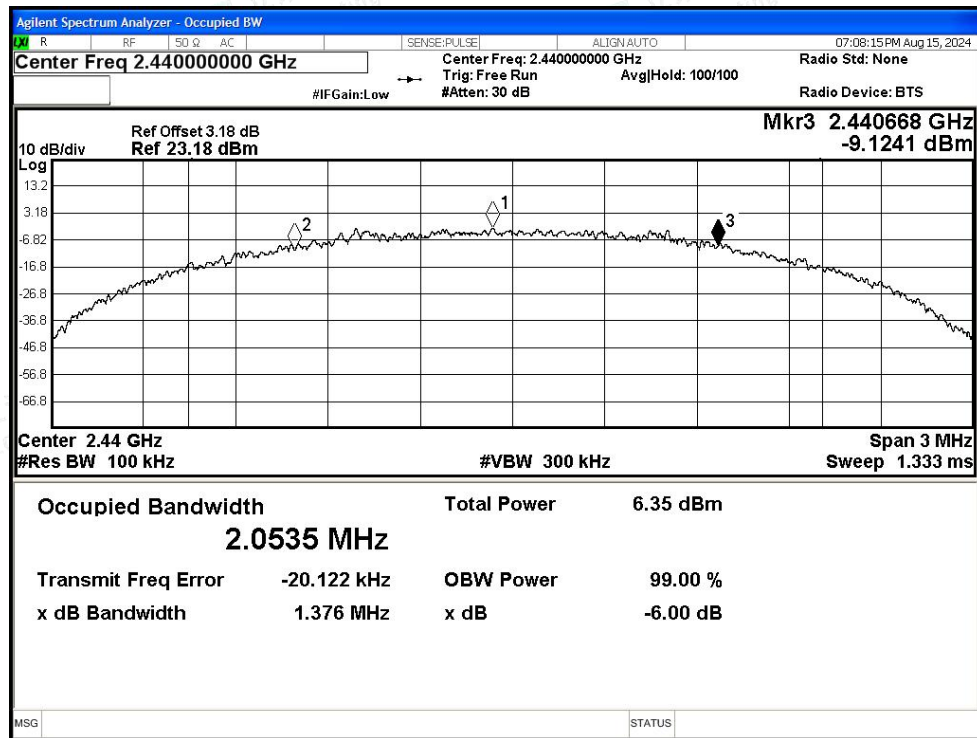


Test Graphs

-6dB Bandwidth NVNT 2.4G 2405MHz Ant1



-6dB Bandwidth NVNT 2.4G 2440MHz Ant1

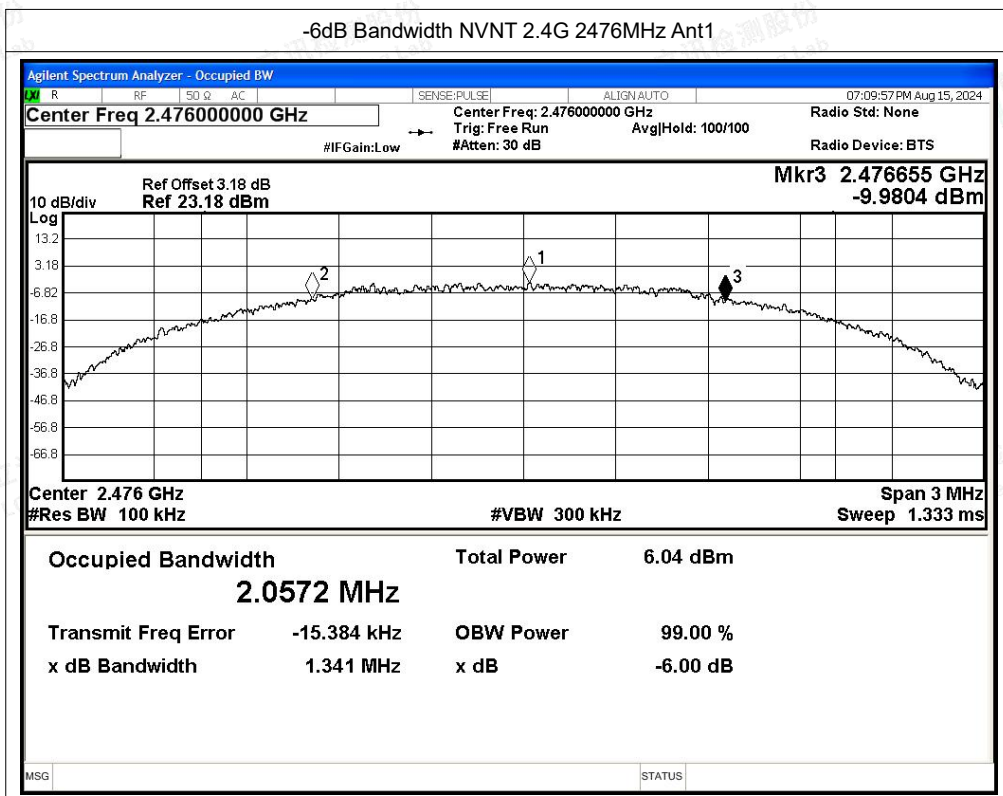


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B.2 Maximum Conducted Output Power

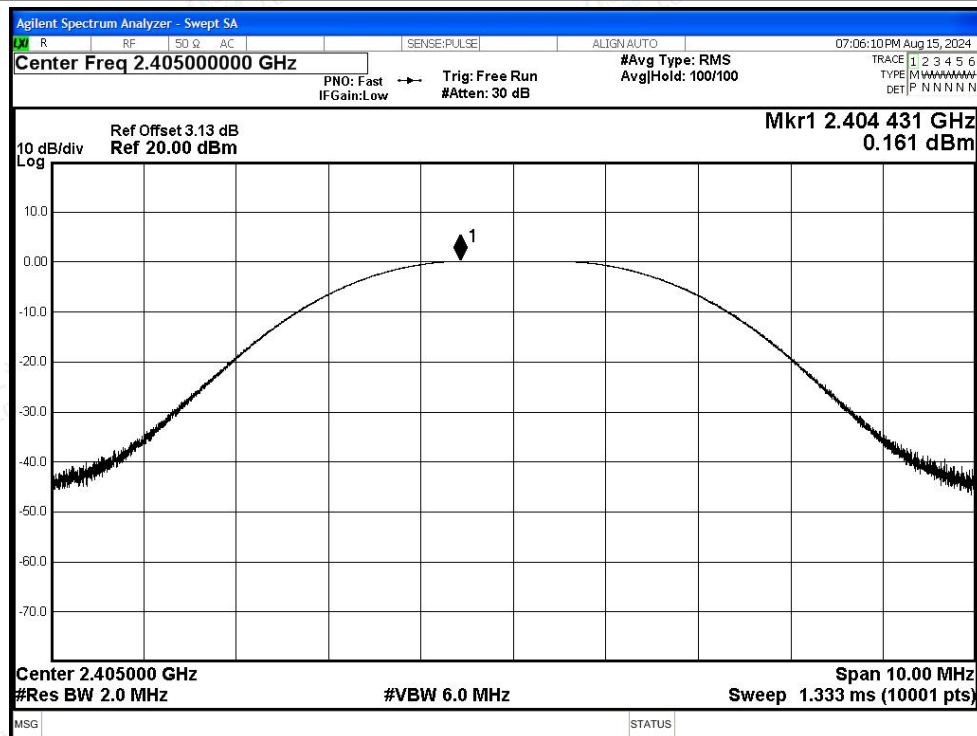
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2405	Ant1	0.16	30	Pass
NVNT	2.4G	2440	Ant1	-0.21	30	Pass
NVNT	2.4G	2476	Ant1	-0.49	30	Pass



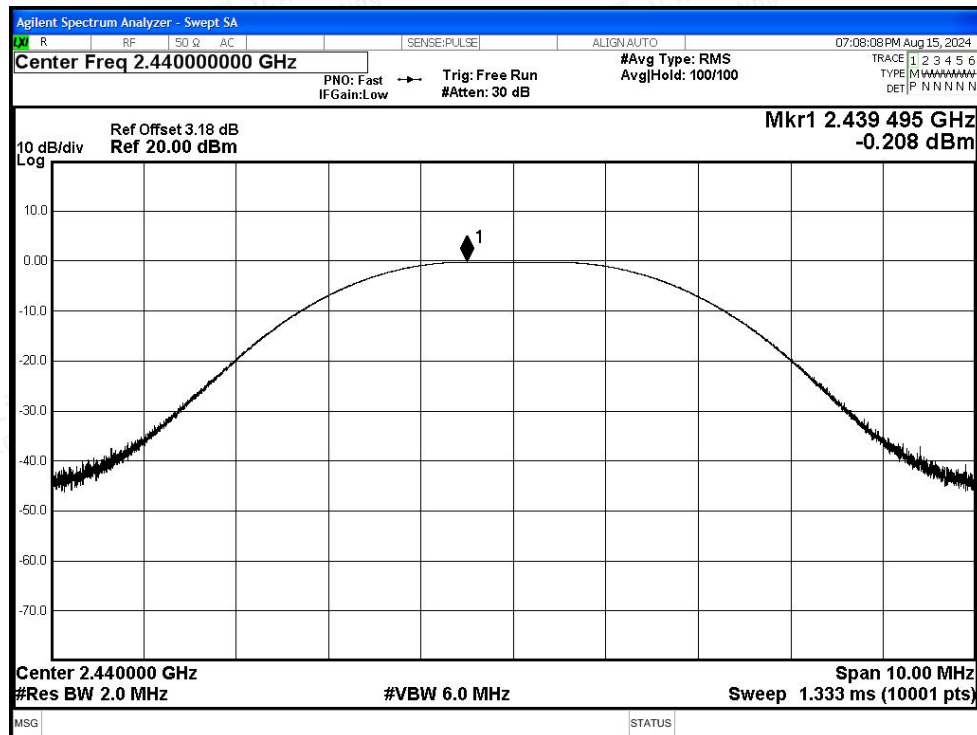


Test Graphs

Power NVNT 2.4G 2405MHz Ant1



Power NVNT 2.4G 2440MHz Ant1

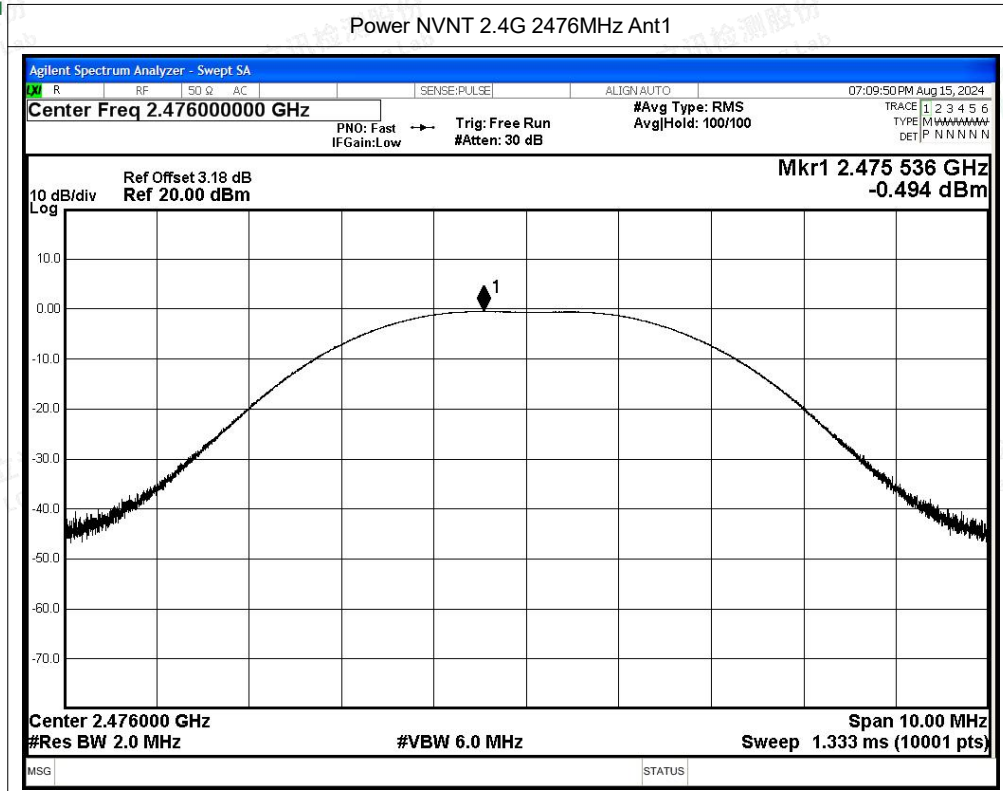


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B.3 Maximum Power Spectral Density Level

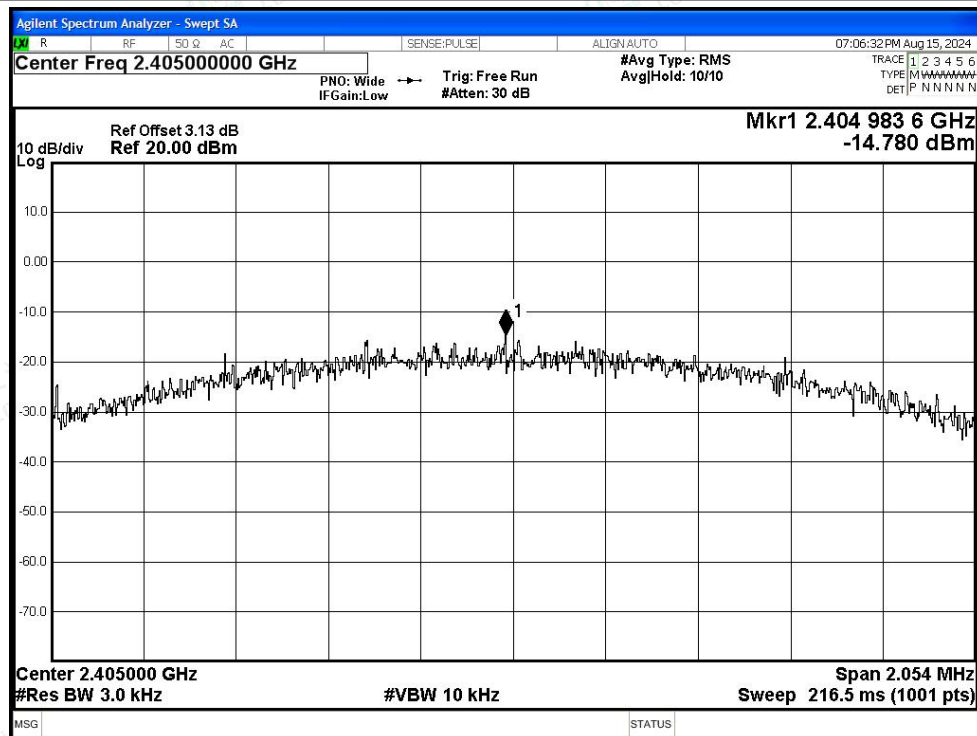
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	2.4G	2405	Ant1	-14.78	8	Pass
NVNT	2.4G	2440	Ant1	-15.83	8	Pass
NVNT	2.4G	2476	Ant1	-15.38	8	Pass



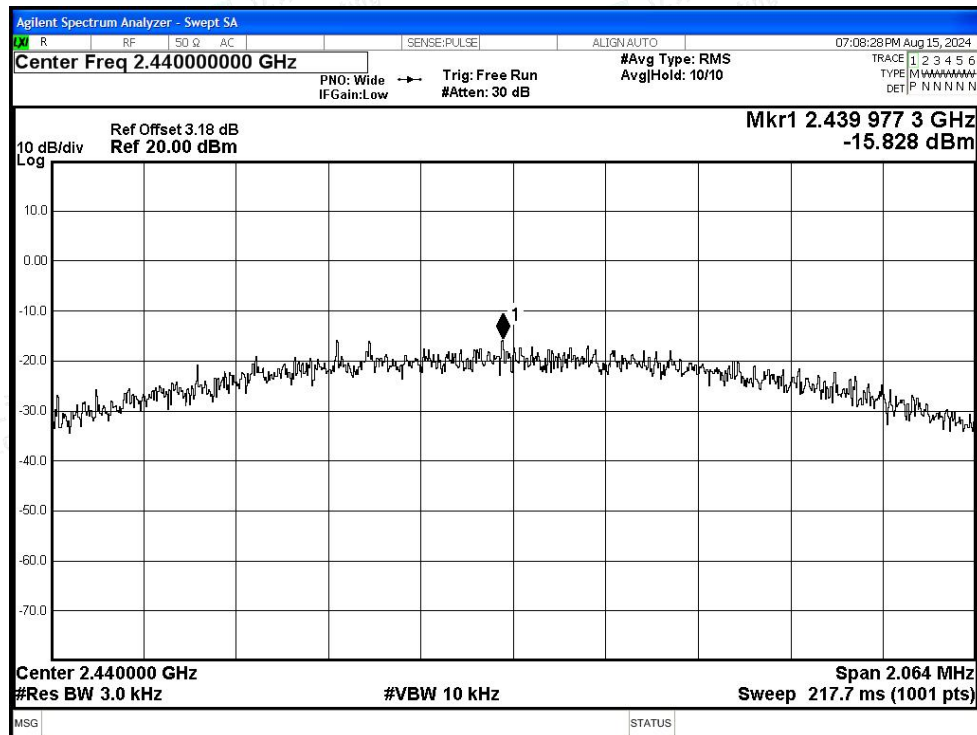


Test Graphs

PSD NVNT 2.4G 2405MHz Ant1



PSD NVNT 2.4G 2440MHz Ant1

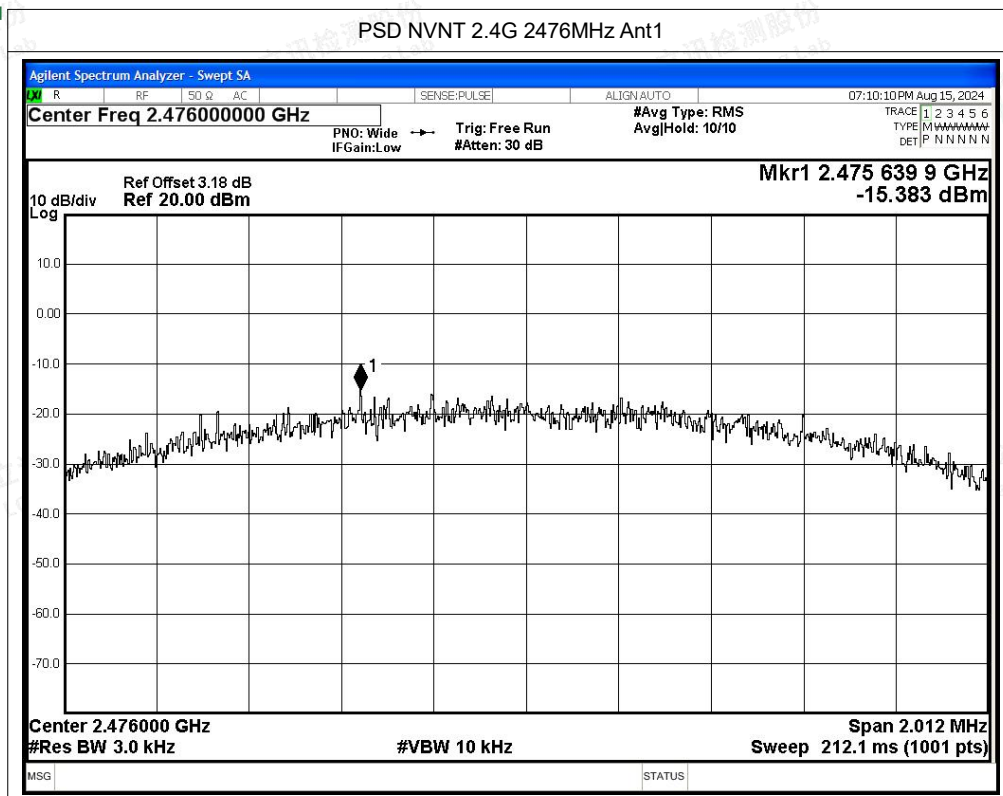


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2405	Ant1	-53.05	-20	Pass
NVNT	2.4G	2476	Ant1	-53.21	-20	Pass

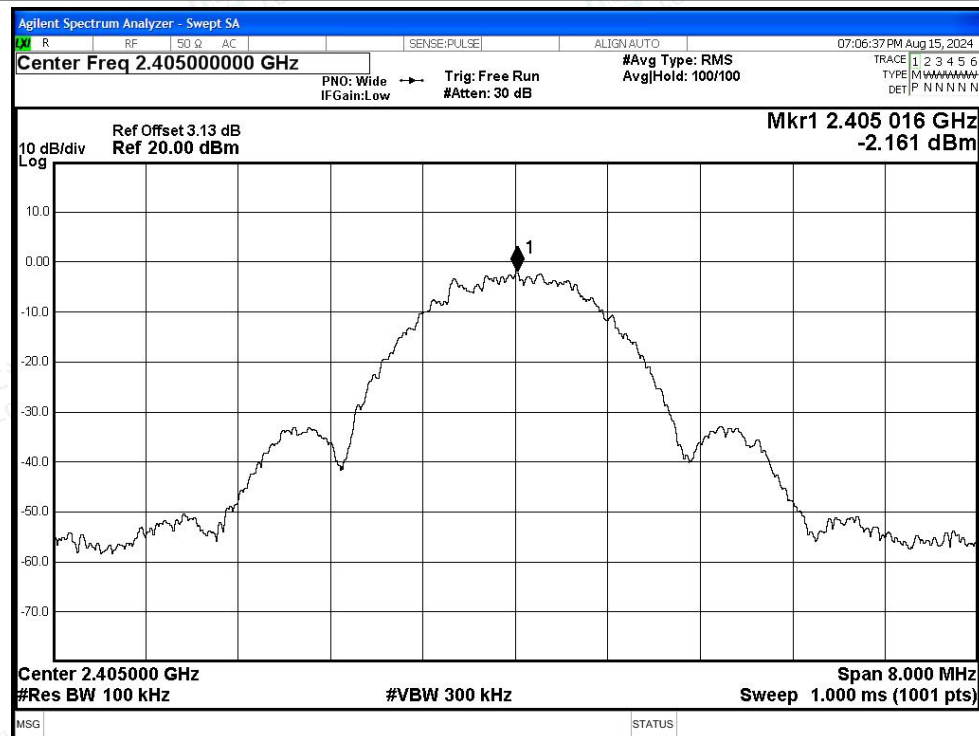


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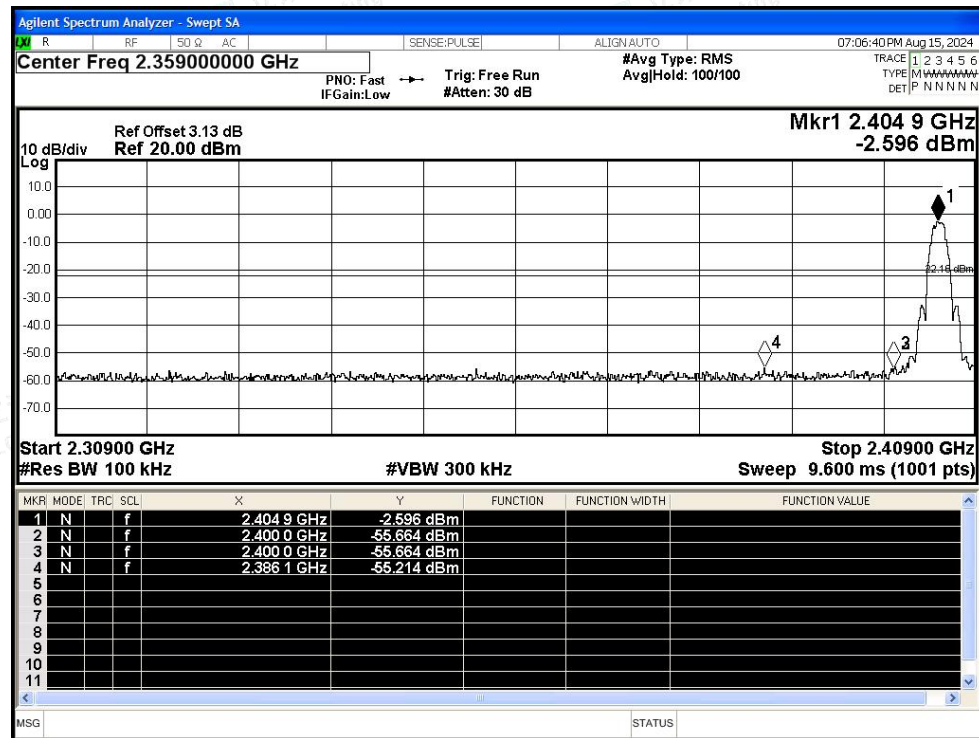


Test Graphs

Band Edge NVNT 2.4G 2405MHz Ant1 Ref



Band Edge NVNT 2.4G 2405MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

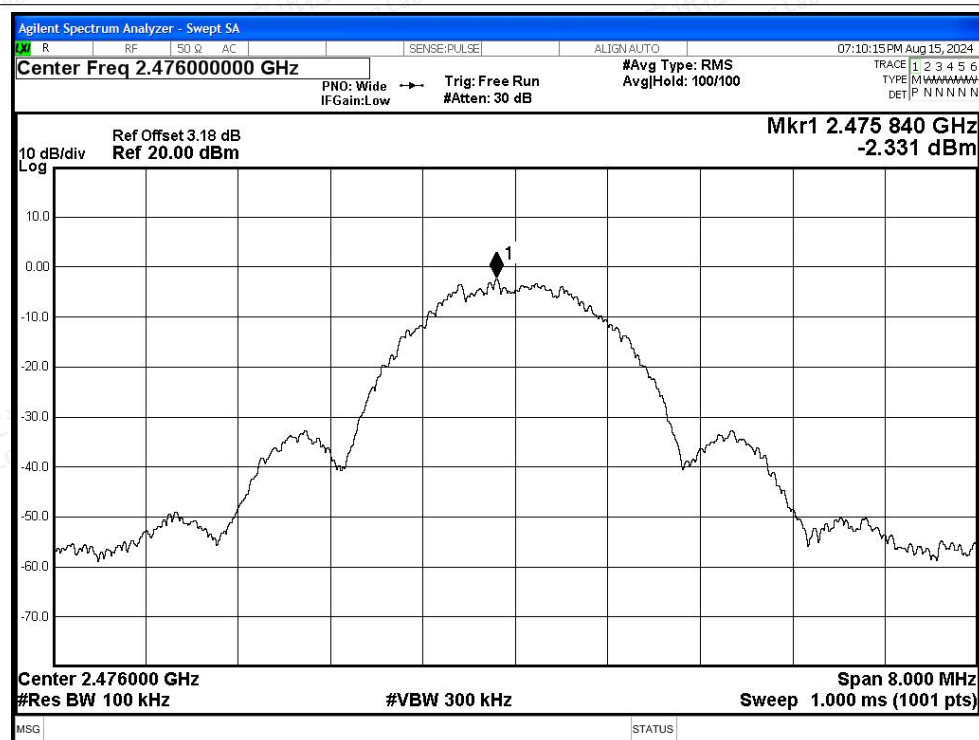
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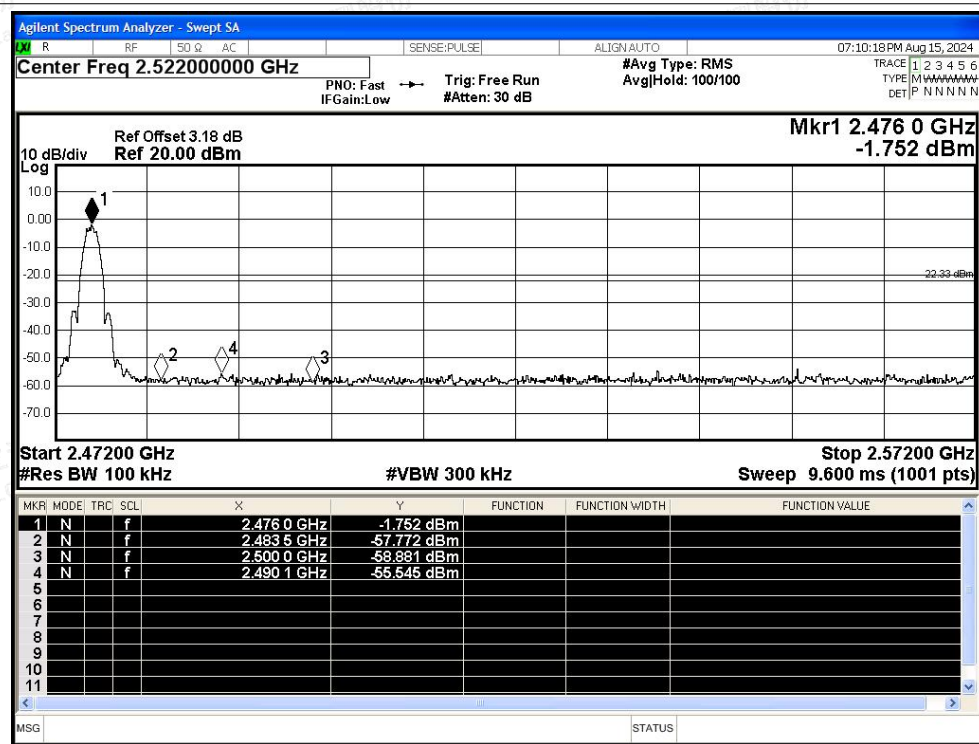
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Band Edge NVNT 2.4G 2476MHz Ant1 Ref



Band Edge NVNT 2.4G 2476MHz Ant1 Emission



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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2405	Ant1	-48.47	-20	Pass
NVNT	2.4G	2440	Ant1	-49.15	-20	Pass
NVNT	2.4G	2476	Ant1	-49.89	-20	Pass

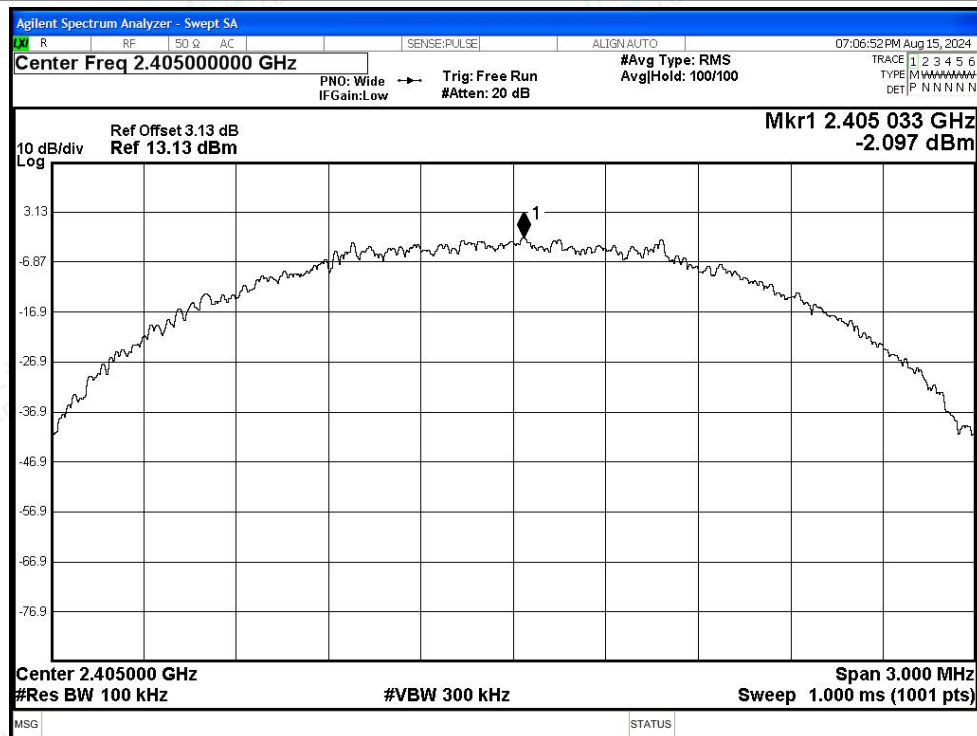


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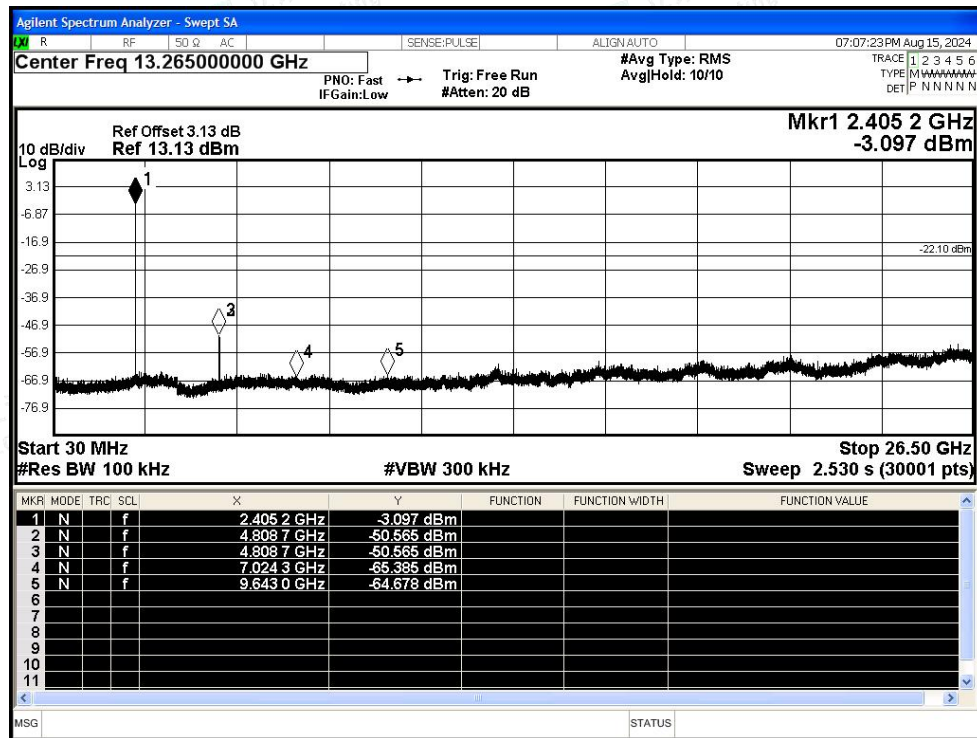


Test Graphs

Tx. Spurious NVNT 2.4G 2405MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2405MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

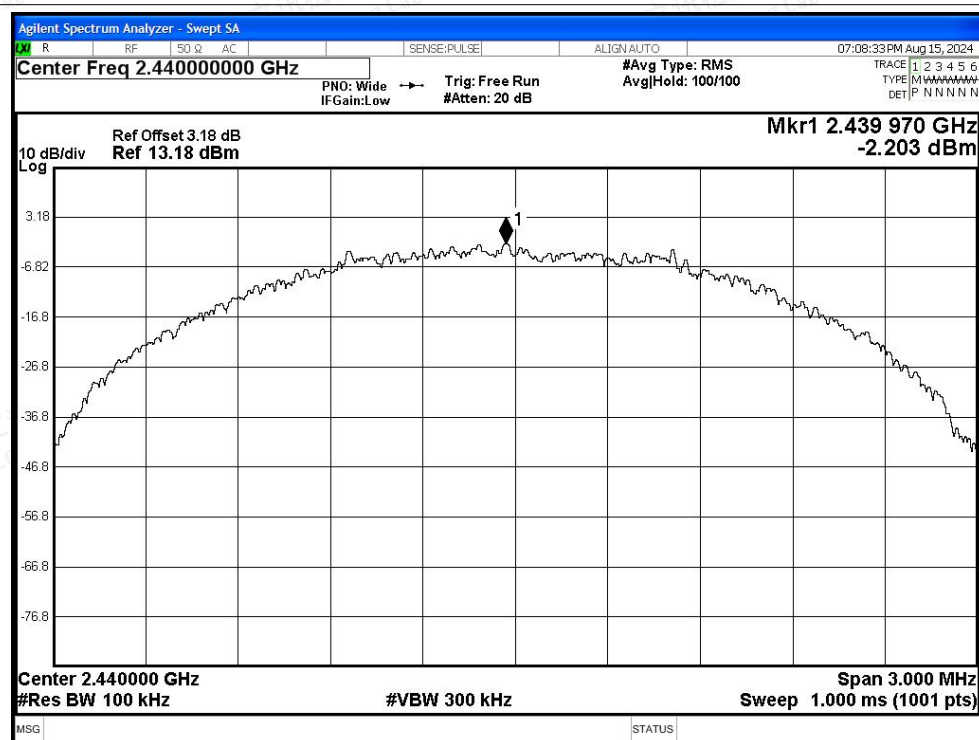
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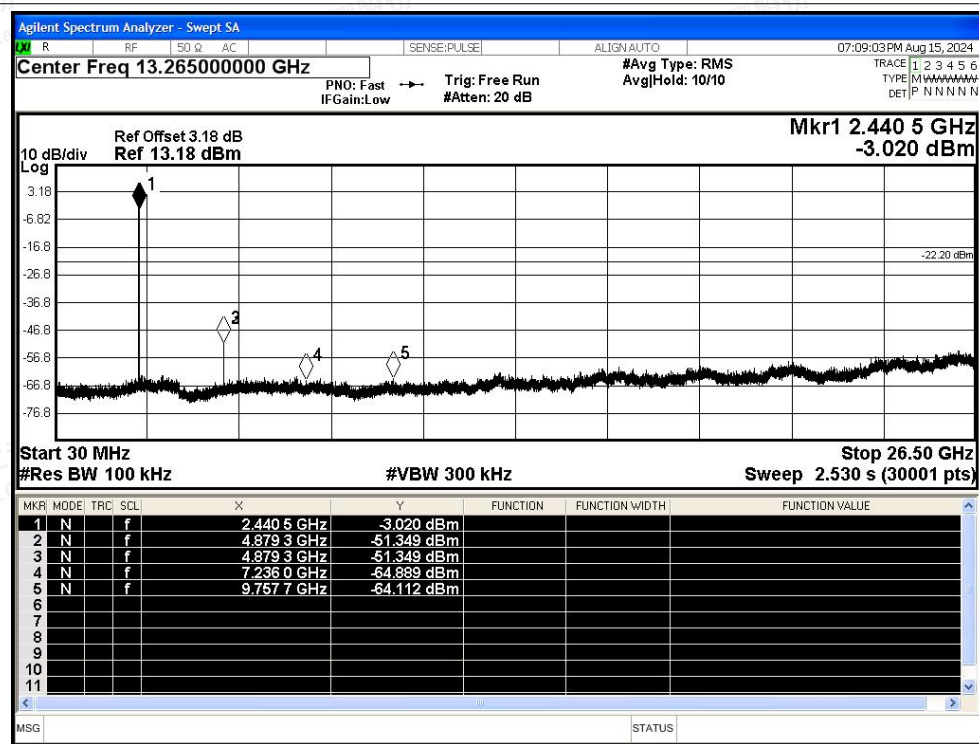
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Tx. Spurious NVNT 2.4G 2440MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

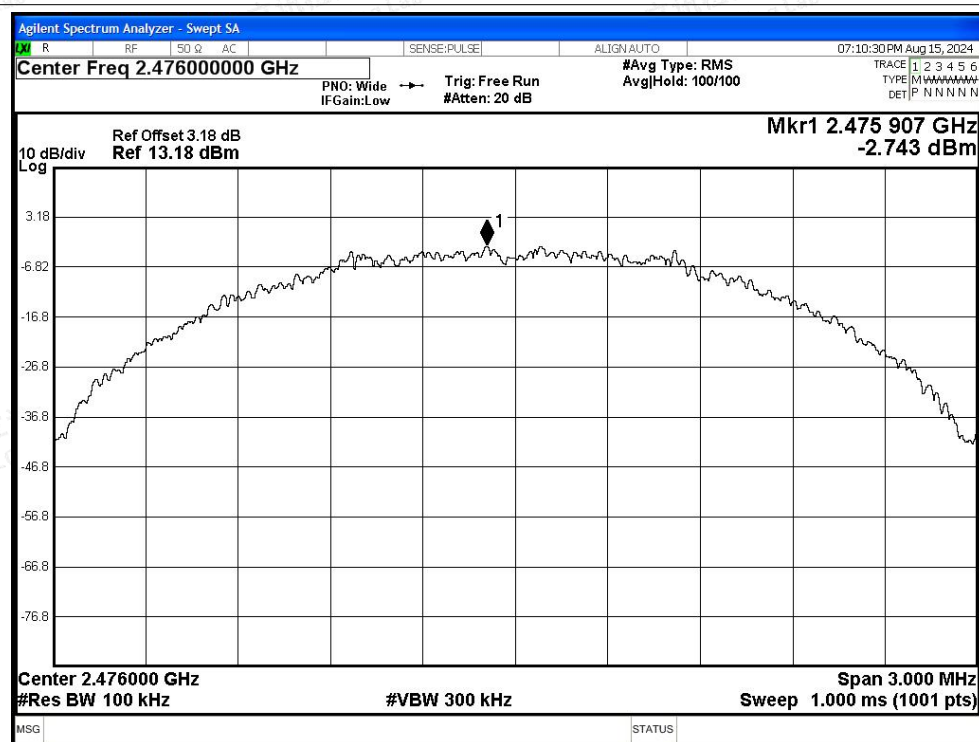
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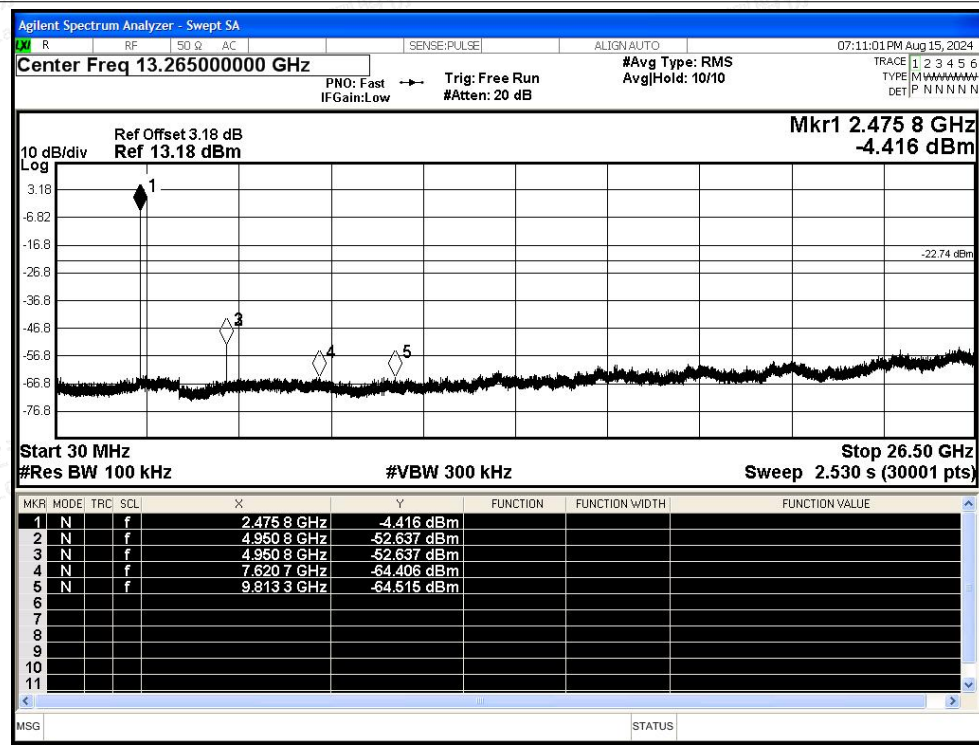
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Tx. Spurious NVNT 2.4G 2476MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2476MHz Ant1 Emission



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B.6 Duty Cycle

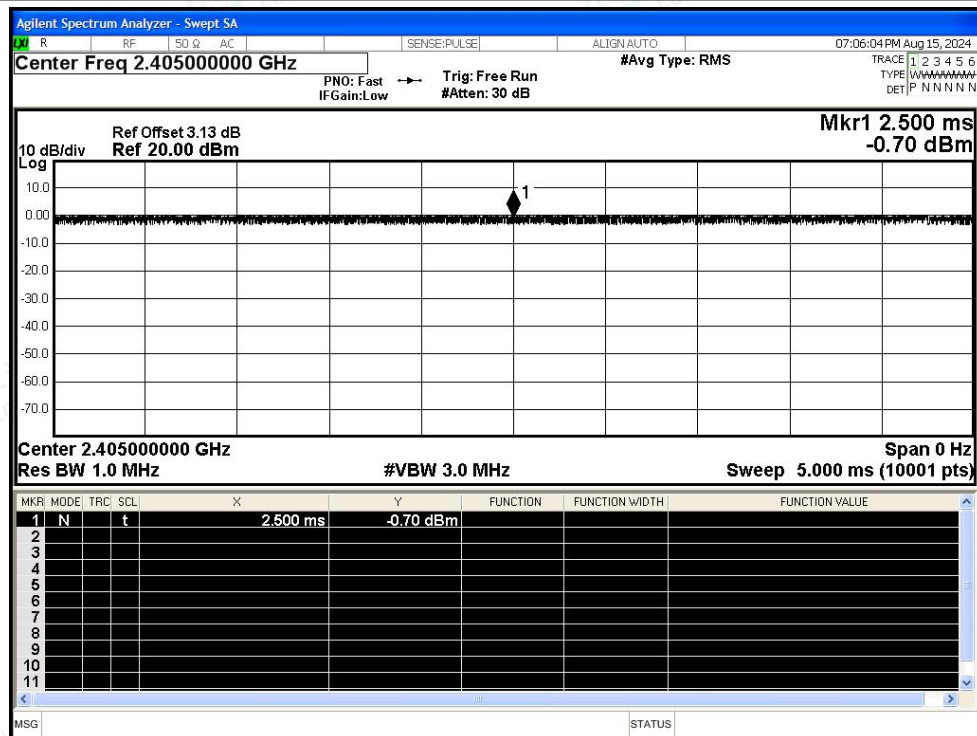
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2405	Ant1	100	0	0
NVNT	2.4G	2440	Ant1	100	0	0
NVNT	2.4G	2476	Ant1	100	0	0



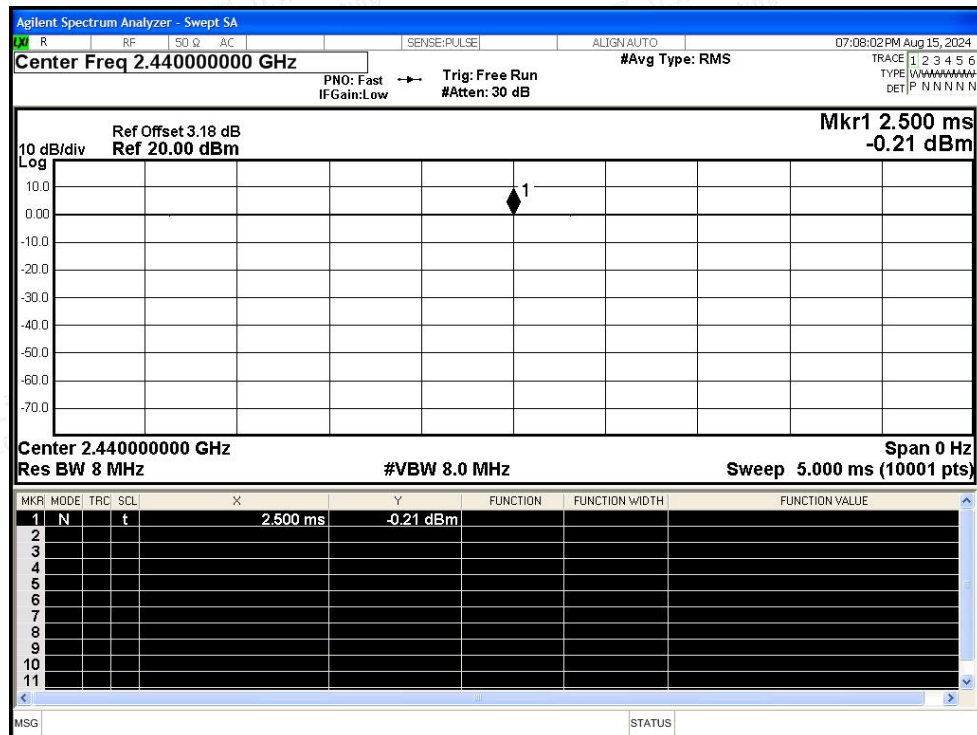


Test Graphs

Duty Cycle NVNT 2.4G 2405MHz Ant1



Duty Cycle NVNT 2.4G 2440MHz Ant1

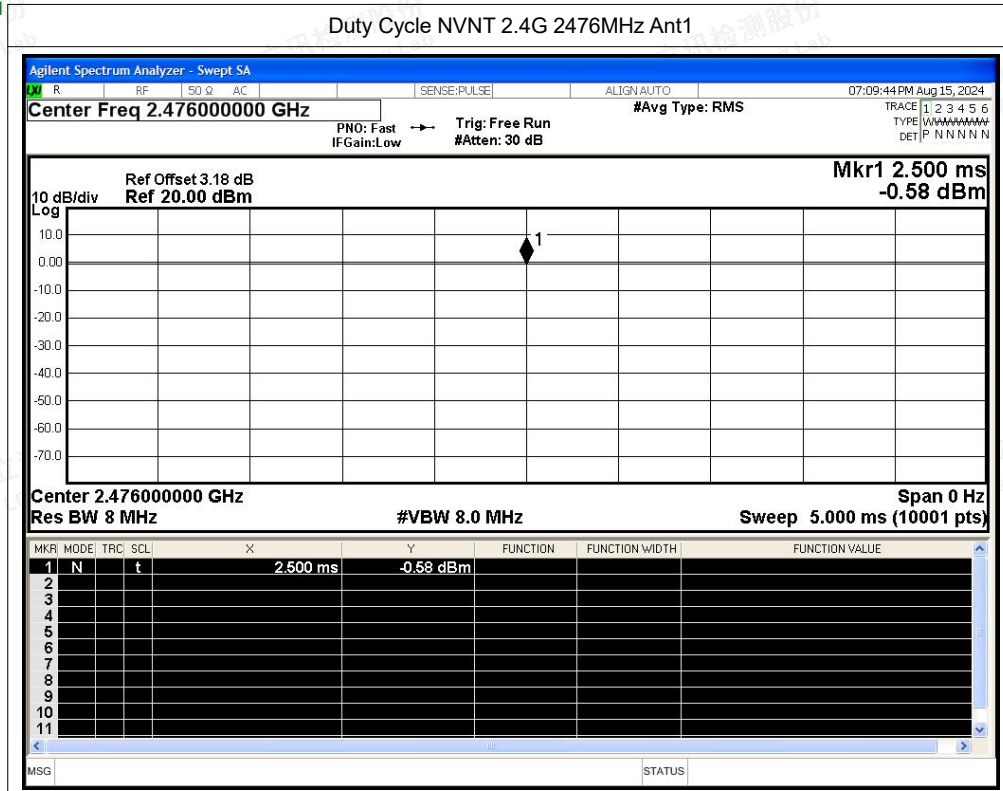


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B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	2.4G	2405	Ant1	2310	-48.62	2	-	48.64	Peak	74	Pass
NVNT	2.4G	2405	Ant1	2310	-57.21	2	0	40.05	Average	54	Pass
NVNT	2.4G	2405	Ant1	2357.52	-46.65	2	-	50.61	Peak	74	Pass
NVNT	2.4G	2405	Ant1	2369.202	-56.39	2	0	40.87	Average	54	Pass
NVNT	2.4G	2405	Ant1	2390	-48.88	2	-	48.38	Peak	74	Pass
NVNT	2.4G	2405	Ant1	2390	-56.67	2	0	40.59	Average	54	Pass
NVNT	2.4G	2476	Ant1	2483.5	-48.46	2	-	48.8	Peak	74	Pass
NVNT	2.4G	2476	Ant1	2483.5	-56.75	2	0	40.51	Average	54	Pass
NVNT	2.4G	2476	Ant1	2485.02	-45.21	2	-	52.05	Peak	74	Pass
NVNT	2.4G	2476	Ant1	2488.968	-55.75	2	0	41.51	Average	54	Pass
NVNT	2.4G	2476	Ant1	2500	-48.99	2	-	48.27	Peak	74	Pass
NVNT	2.4G	2476	Ant1	2500	-56.56	2	0	40.7	Average	54	Pass

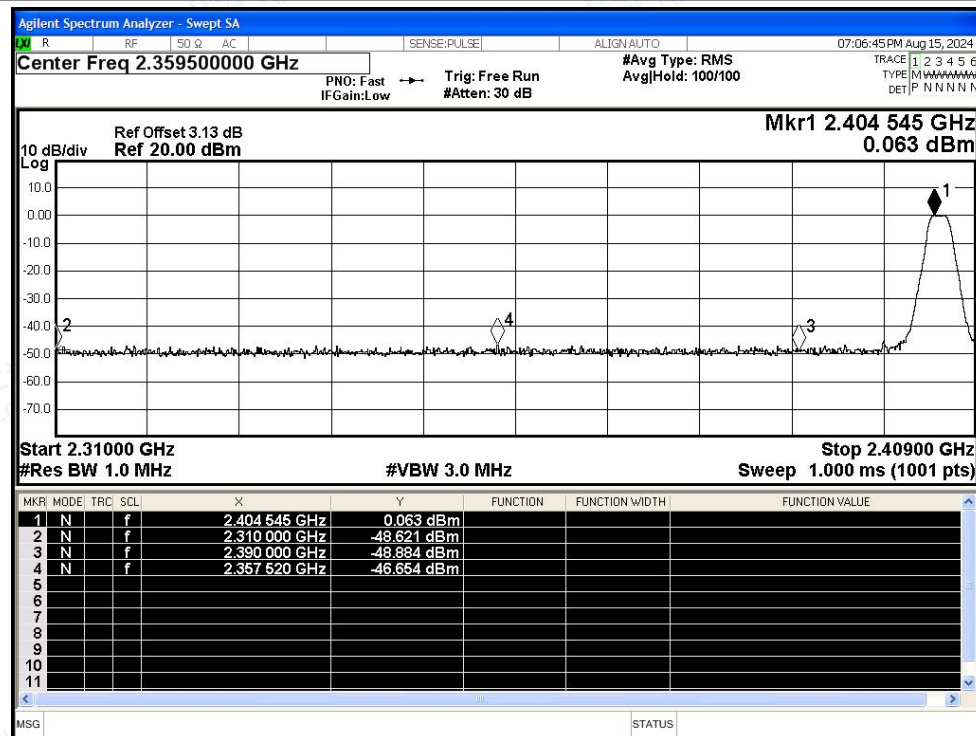


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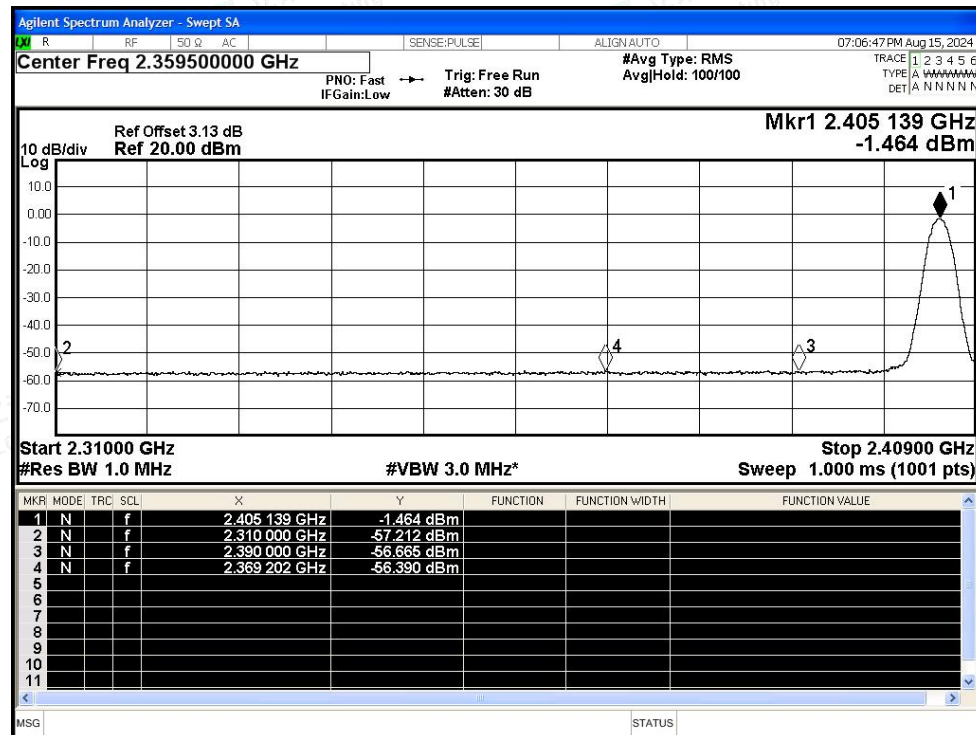


Test Graphs

Restrict Band NVNT 2.4G 2405MHz Ant1 Peak



Restrict Band NVNT 2.4G 2405MHz Ant1 Average



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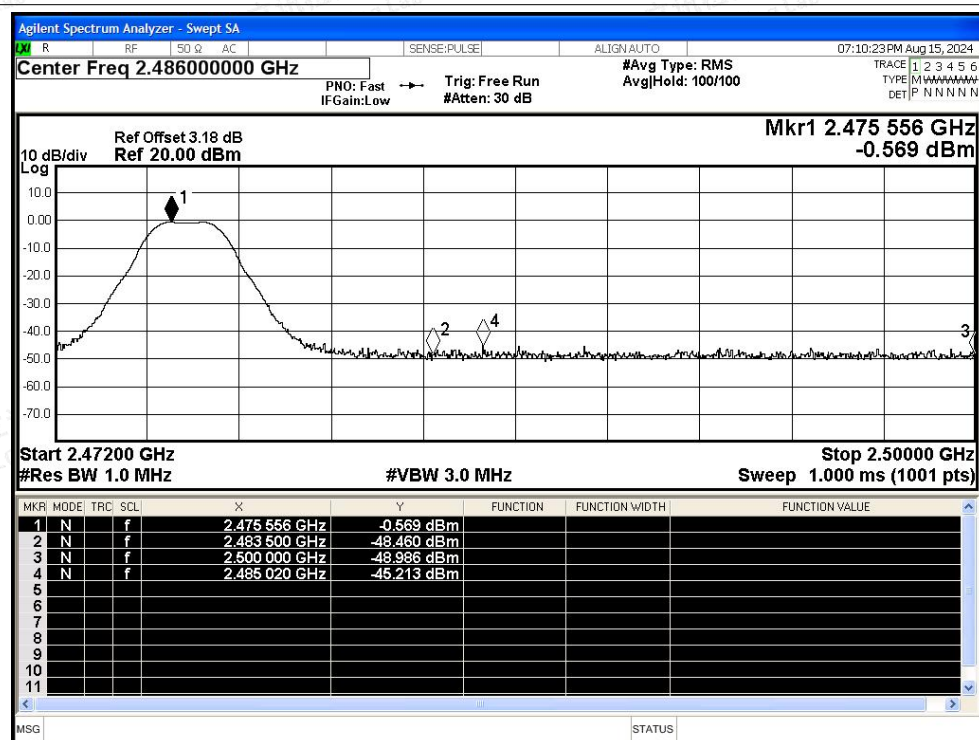
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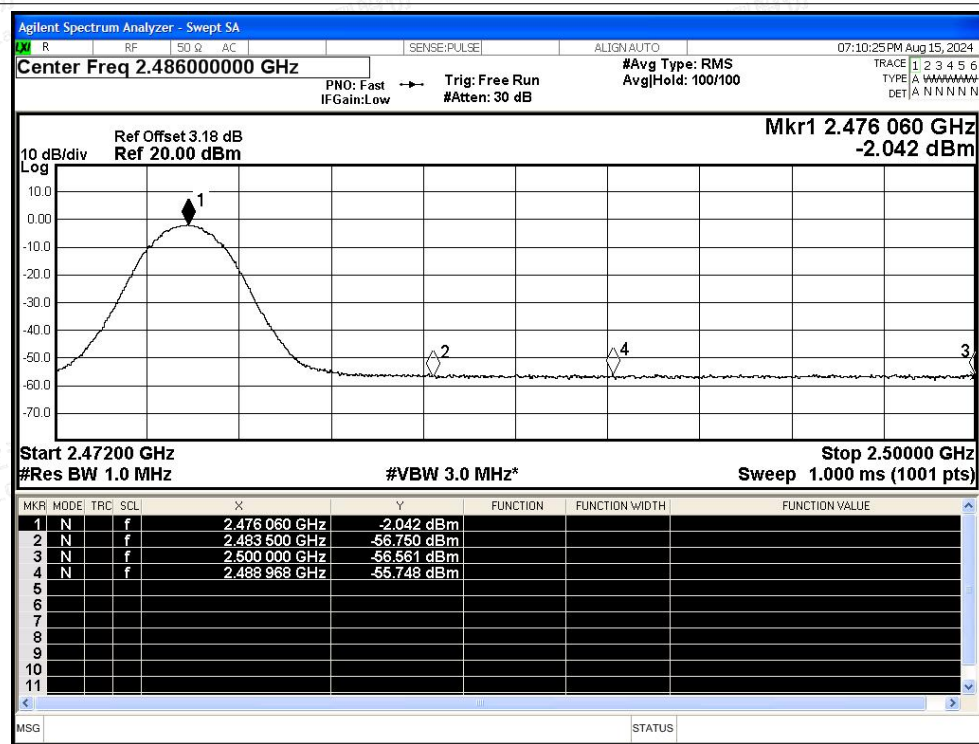
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Restrict Band NVNT 2.4G 2476MHz Ant1 Peak



Restrict Band NVNT 2.4G 2476MHz Ant1 Average



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