



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Voice Amplifier

Test Model: 24486

Environmental Conditions

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





B.1 -6dB Bandwidth

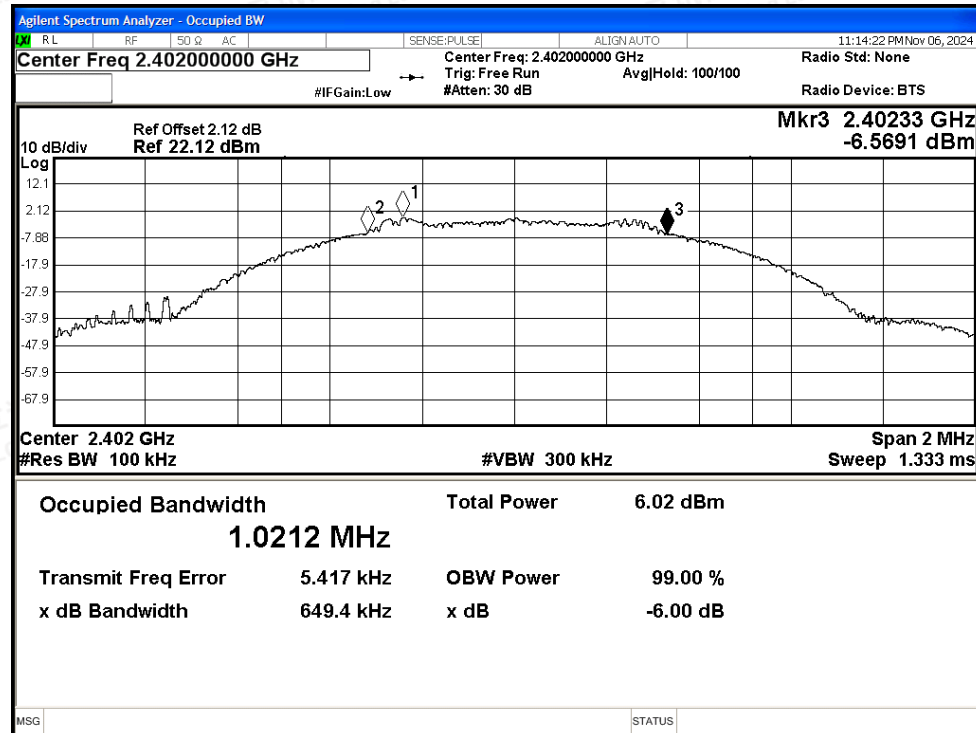
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	Ant	0.649	>=0.5	Pass
NVNT	BLE	2440	Ant	0.651	>=0.5	Pass
NVNT	BLE	2480	Ant	0.656	>=0.5	Pass



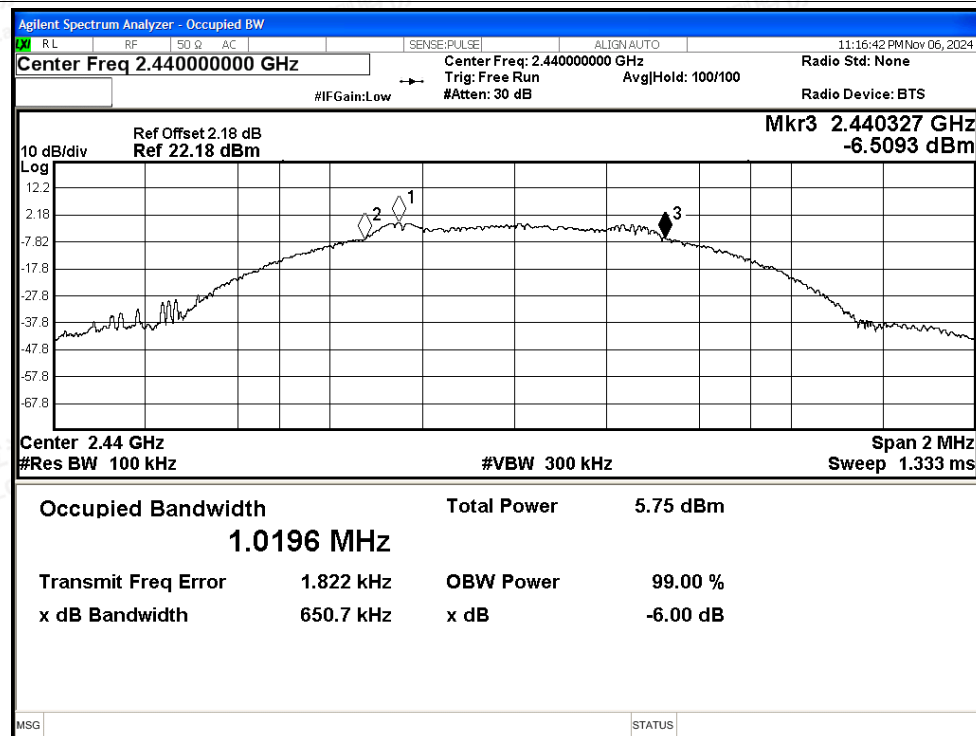


Test Graphs

-6dB Bandwidth NVNT BLE 2402MHz Ant



-6dB Bandwidth NVNT BLE 2440MHz Ant

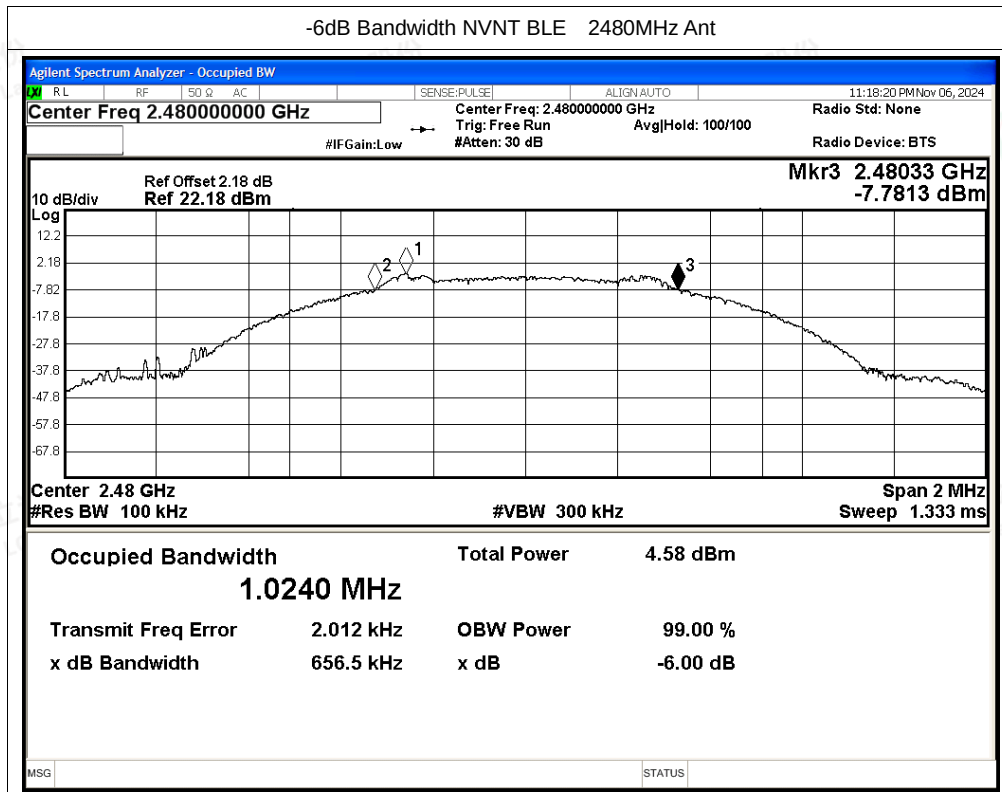


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B.2 Maximum Peak Conducted Output Power

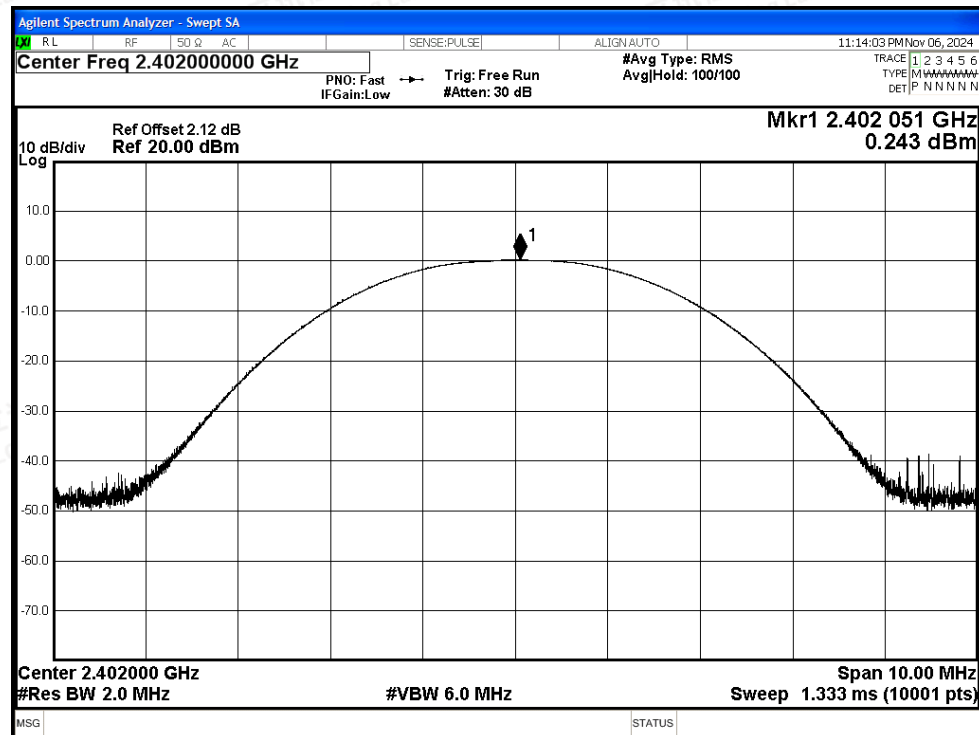
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant	0.24	30	Pass
NVNT	BLE	2440	Ant	-0.21	30	Pass
NVNT	BLE	2480	Ant	-1.25	30	Pass



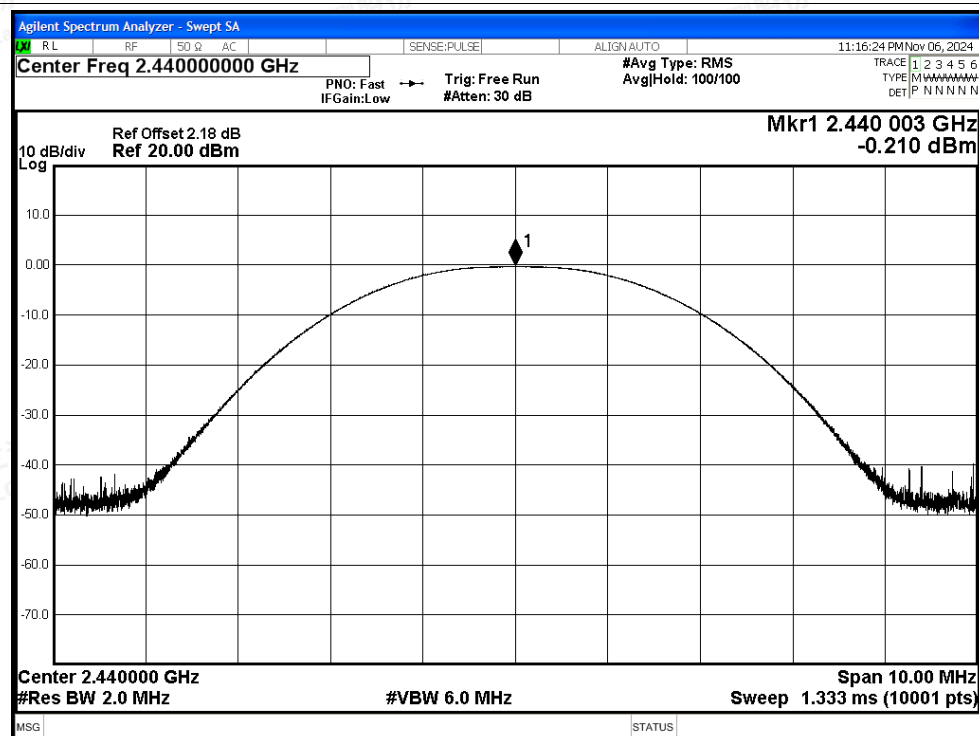


Test Graphs

Power NVNT BLE 2402MHz Ant



Power NVNT BLE 2440MHz Ant

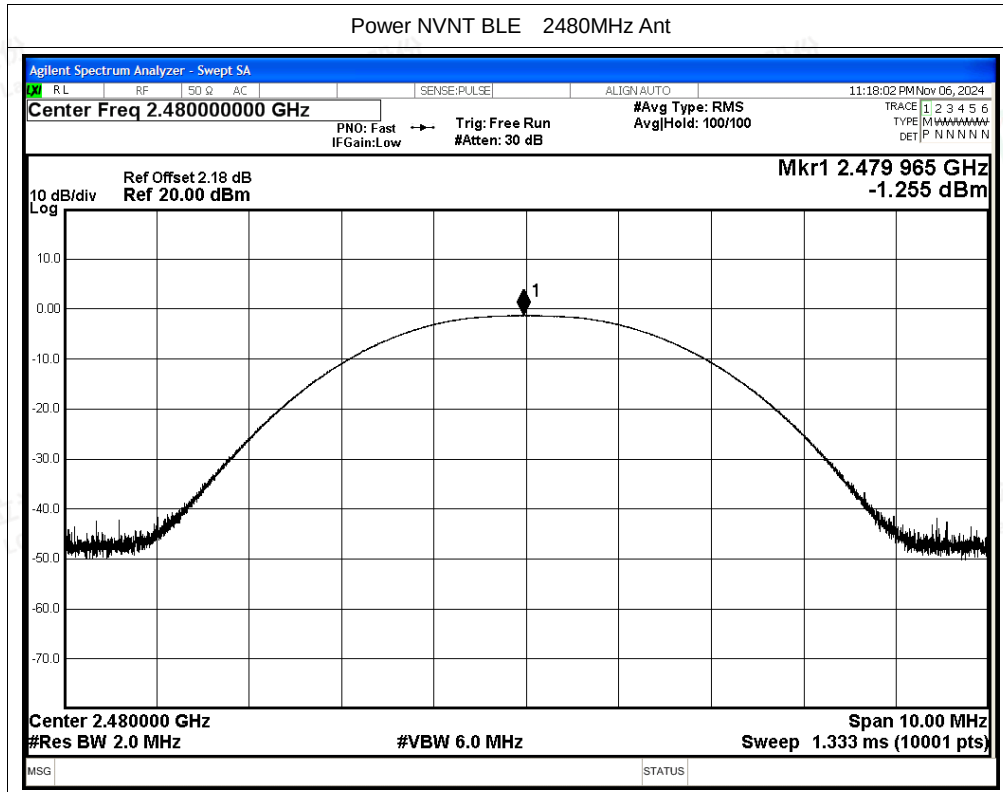


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B.3 Maximum Power Spectral Density Level

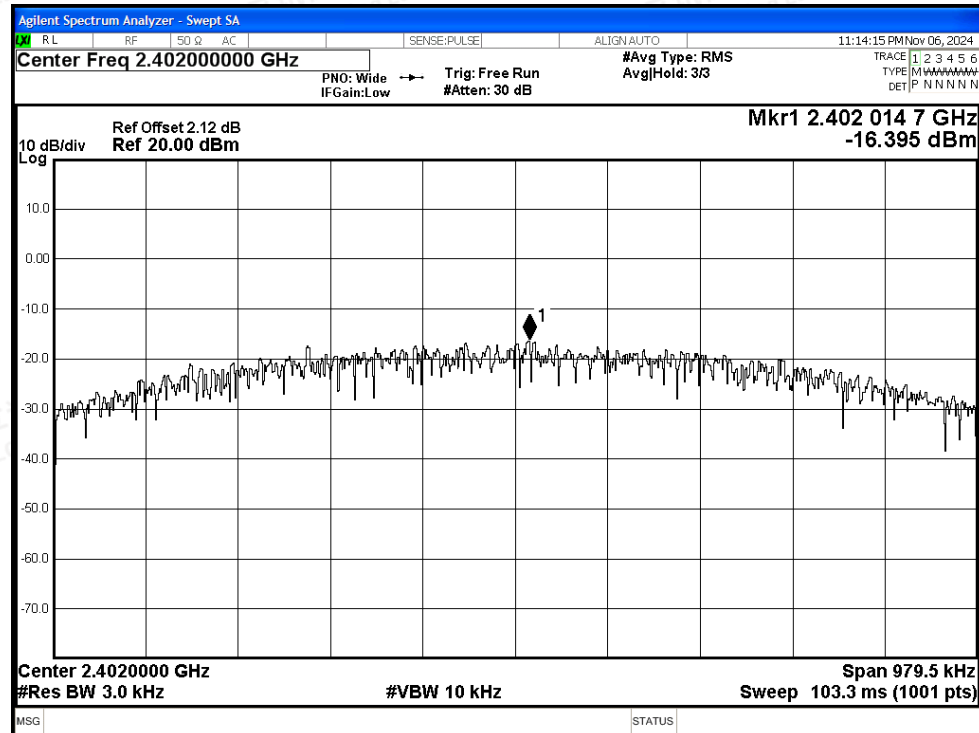
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE	2402	Ant	-16.4	8	Pass
NVNT	BLE	2440	Ant	-16.75	8	Pass
NVNT	BLE	2480	Ant	-17.84	8	Pass



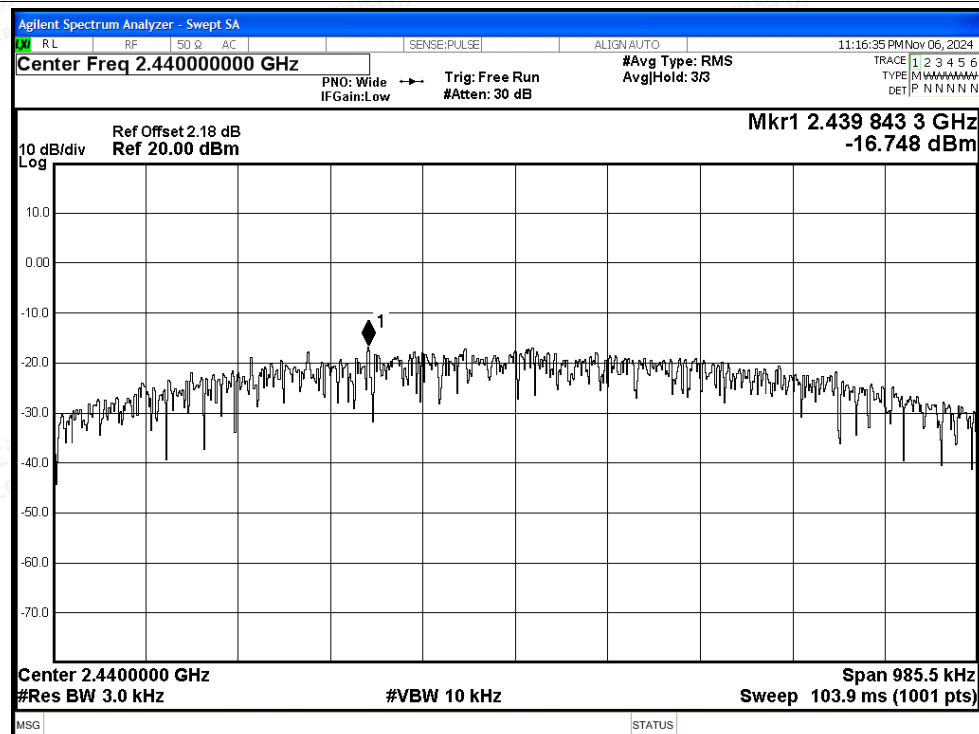


Test Graphs

PSD NVNT BLE 2402MHz Ant



PSD NVNT BLE 2440MHz Ant

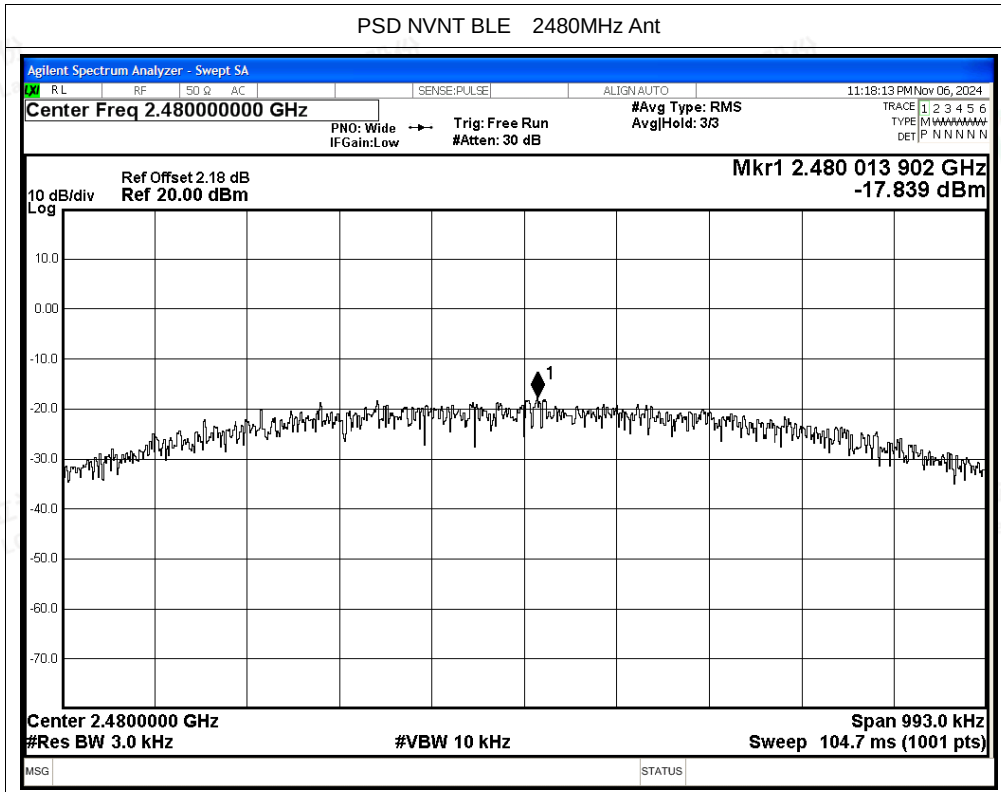


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B.4 Band Edge

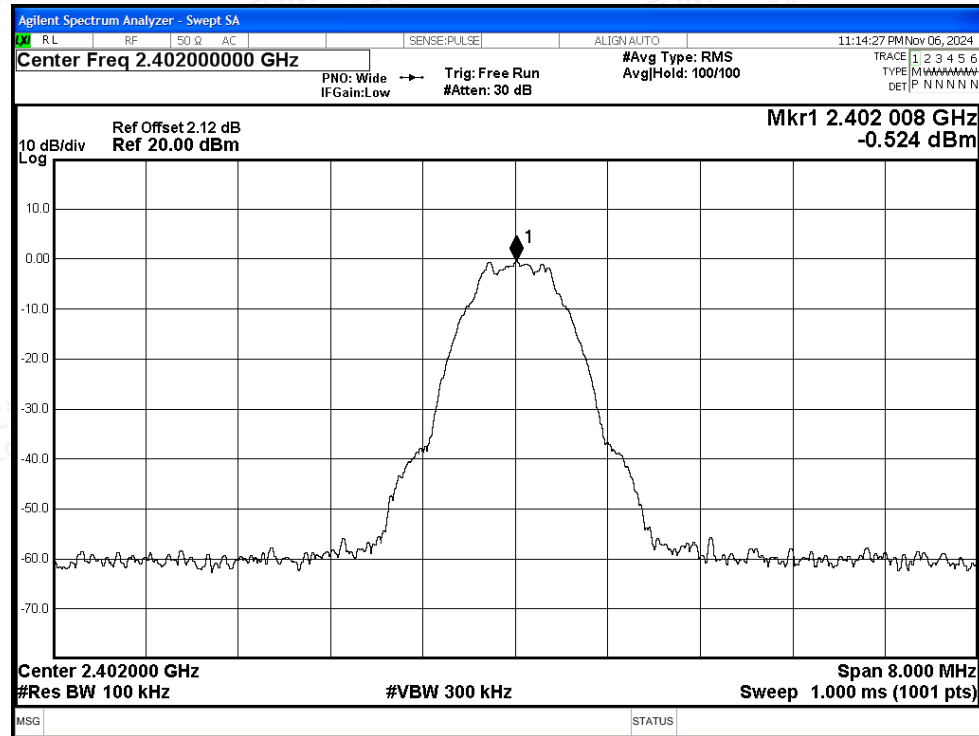
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant	-56.12	-20	Pass
NVNT	BLE	2480	Ant	-54.3	-20	Pass



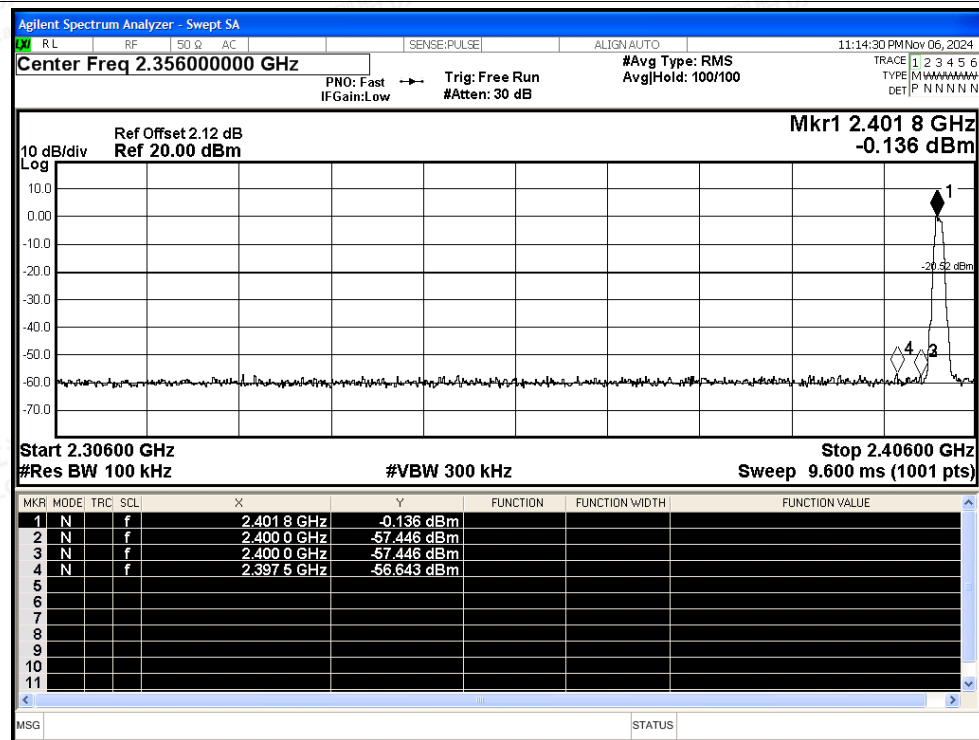


Test Graphs

Band Edge NVNT BLE 2402MHz Ant Ref



Band Edge NVNT BLE 2402MHz Ant Emission



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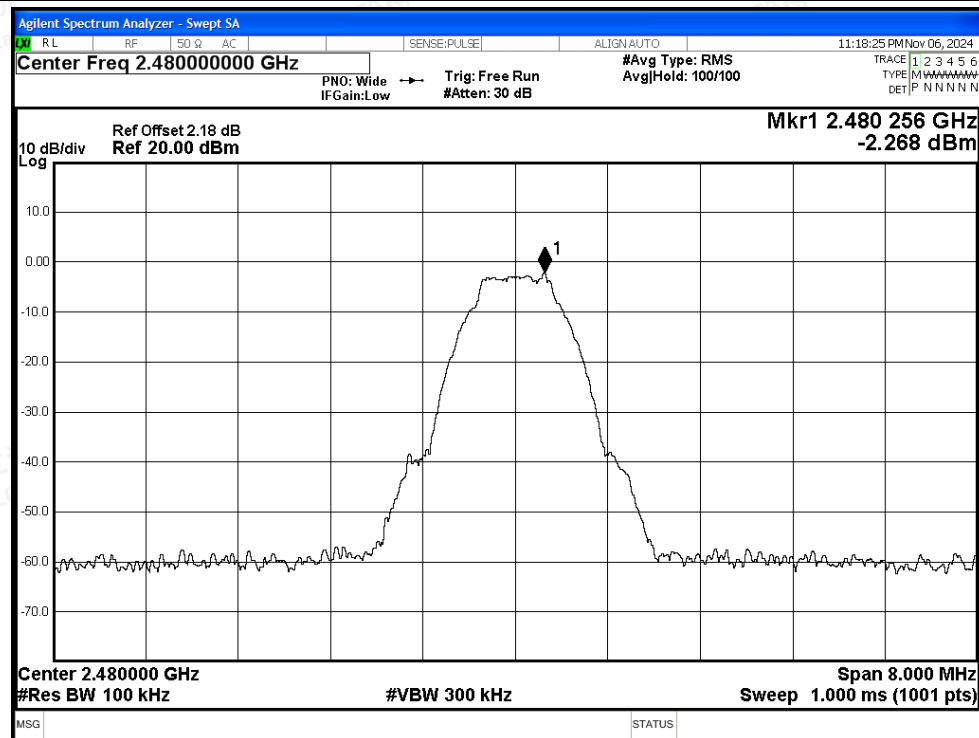
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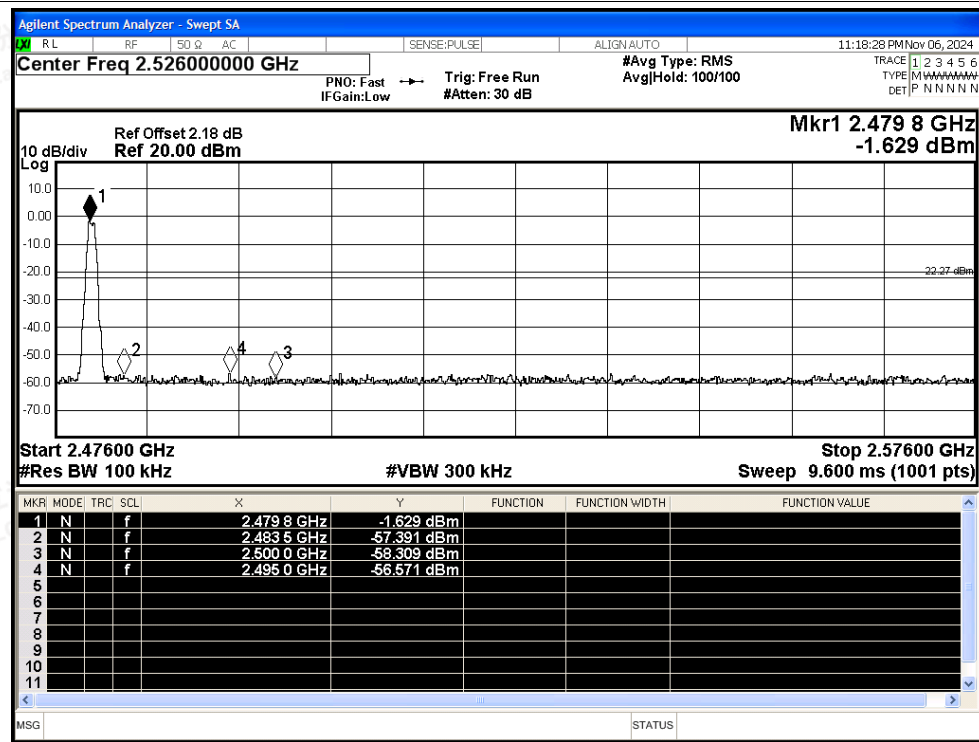
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Band Edge NVNT BLE 2480MHz Ant Ref



Band Edge NVNT BLE 2480MHz Ant Emission



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B.5 Conducted RF Spurious Emission

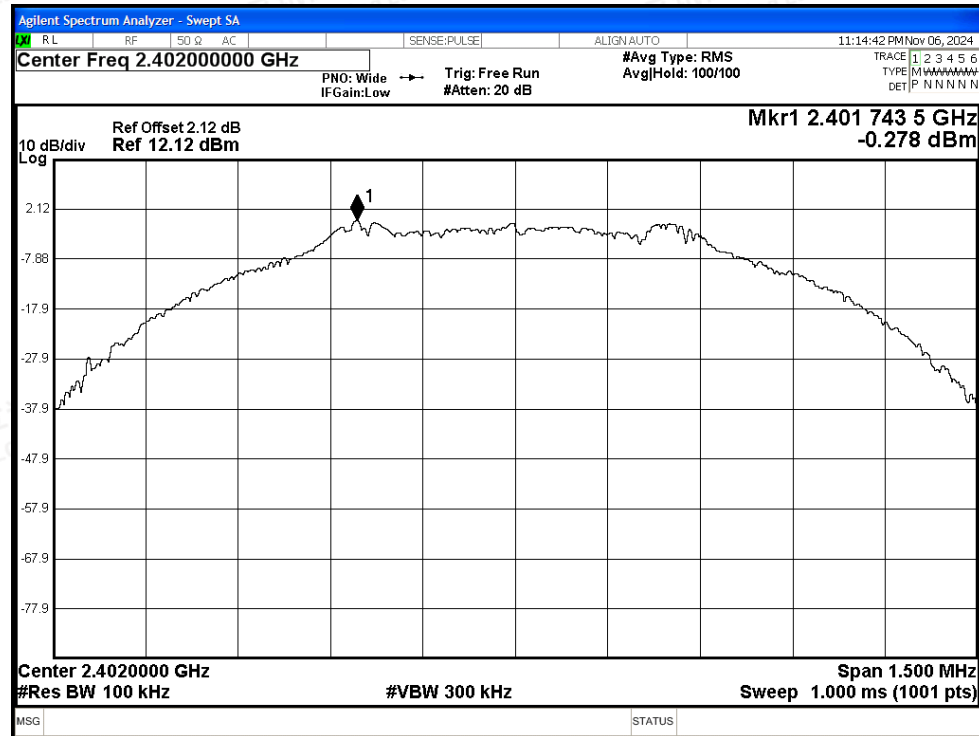
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant	-54.68	-20	Pass
NVNT	BLE	2440	Ant	-54.67	-20	Pass
NVNT	BLE	2480	Ant	-53.68	-20	Pass



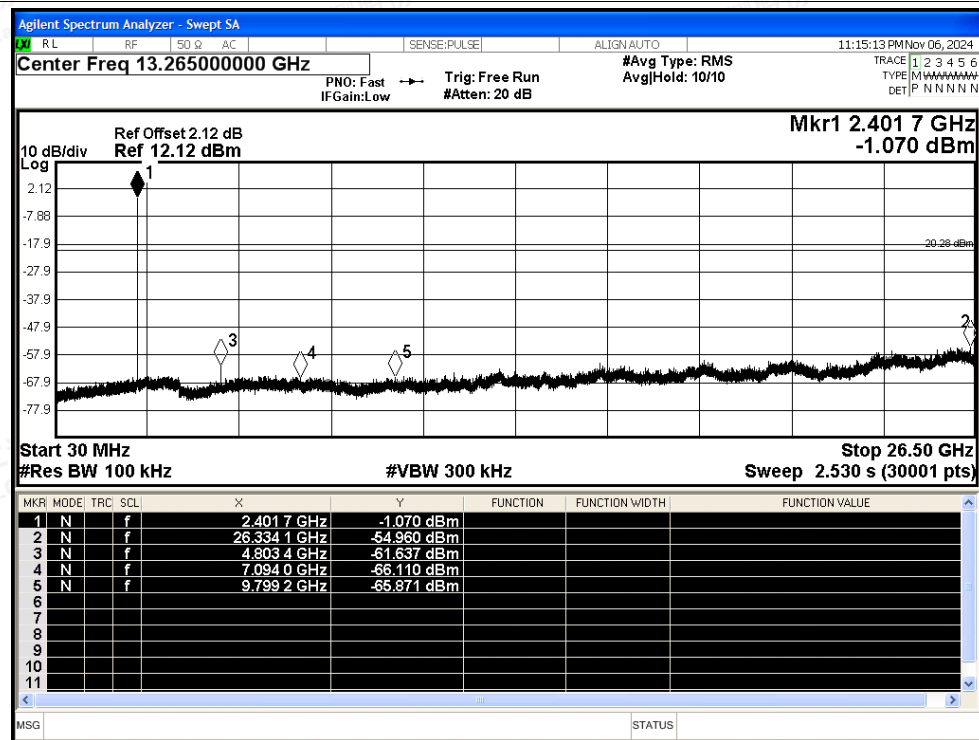


Test Graphs

Tx. Spurious NVNT BLE 2402MHz Ant Ref



Tx. Spurious NVNT BLE 2402MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

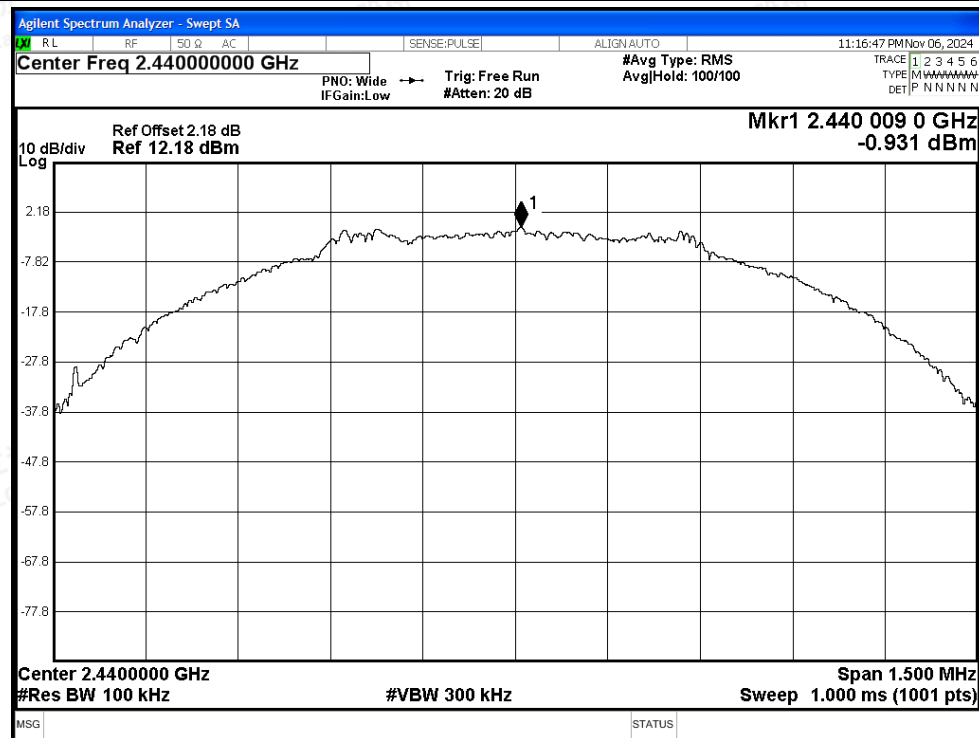
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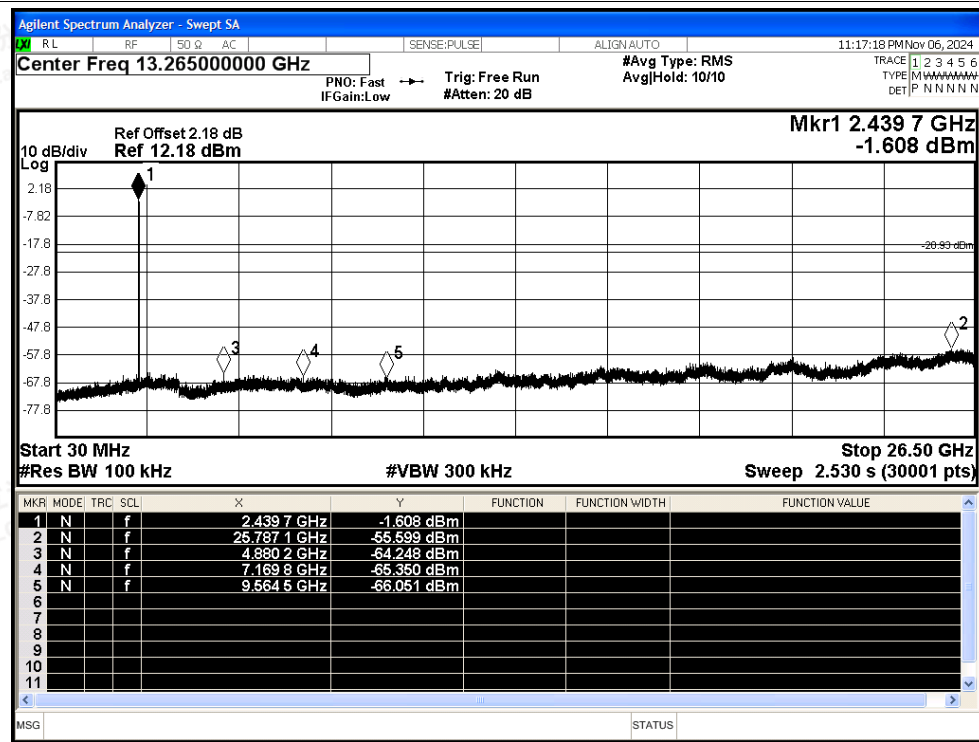
Scan code to check authenticity



Tx. Spurious NVNT BLE 2440MHz Ant Ref



Tx. Spurious NVNT BLE 2440MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

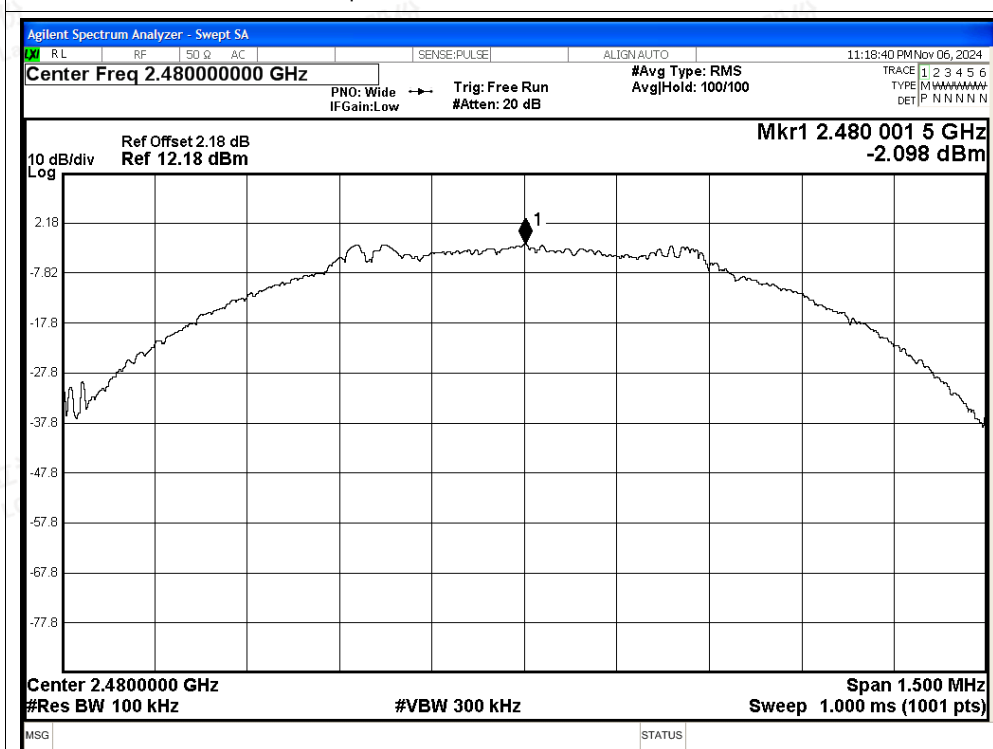
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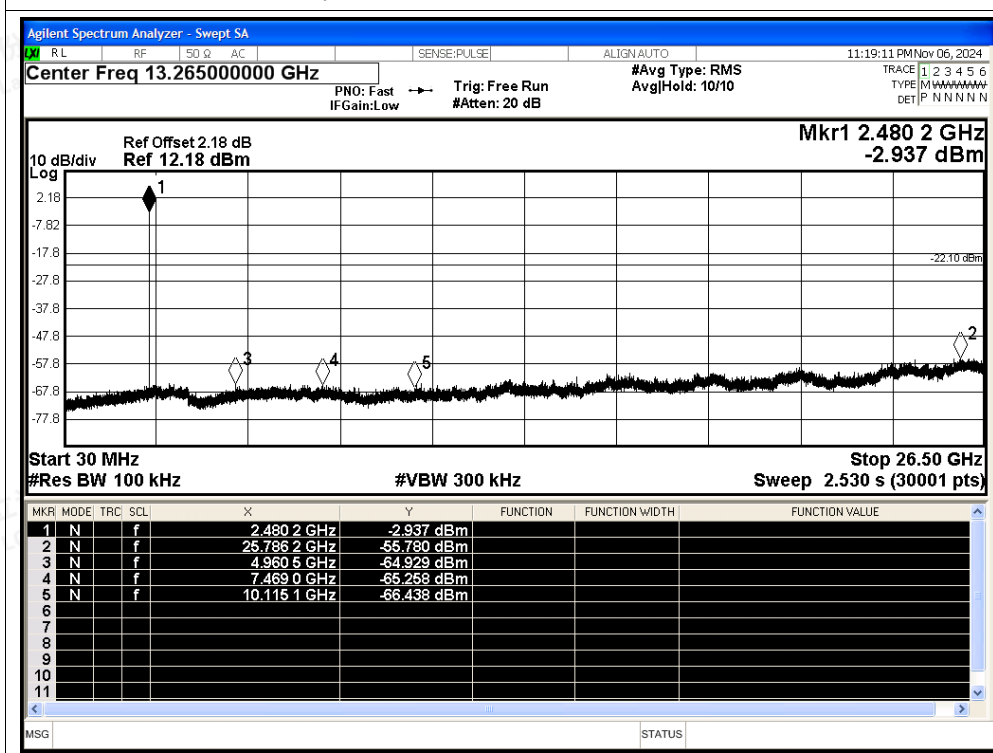
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Tx. Spurious NVNT BLE 2480MHz Ant Ref



Tx. Spurious NVNT BLE 2480MHz Ant Emission



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B.6 Duty Cycle

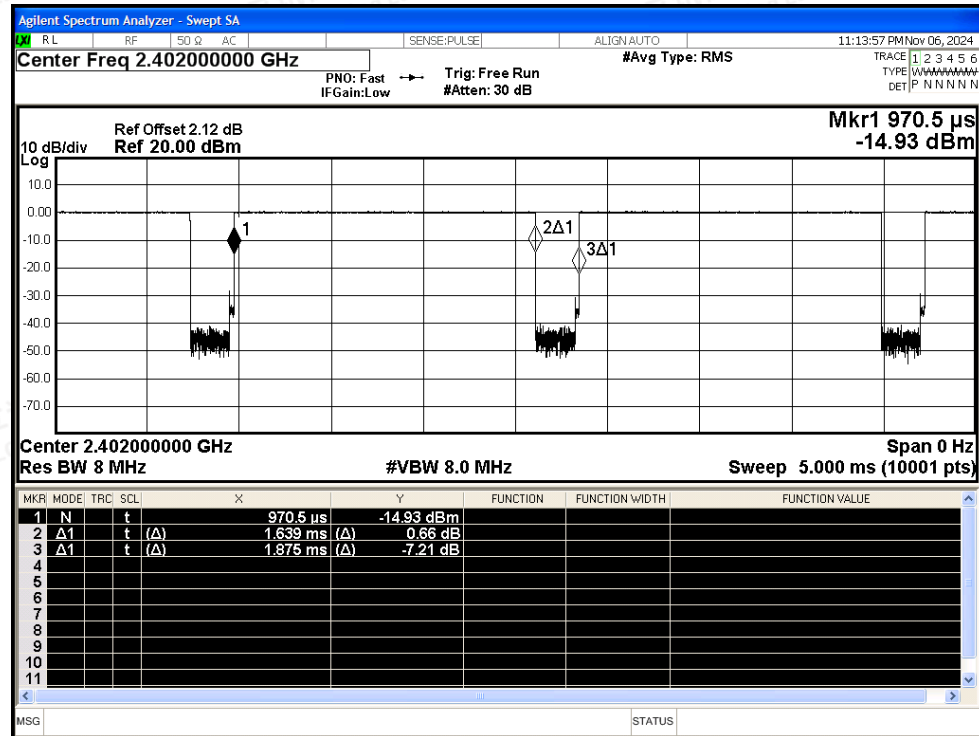
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE	2402	Ant	87.39	0.59	0.61
NVNT	BLE	2440	Ant	87.39	0.59	0.61
NVNT	BLE	2480	Ant	87.39	0.59	0.61



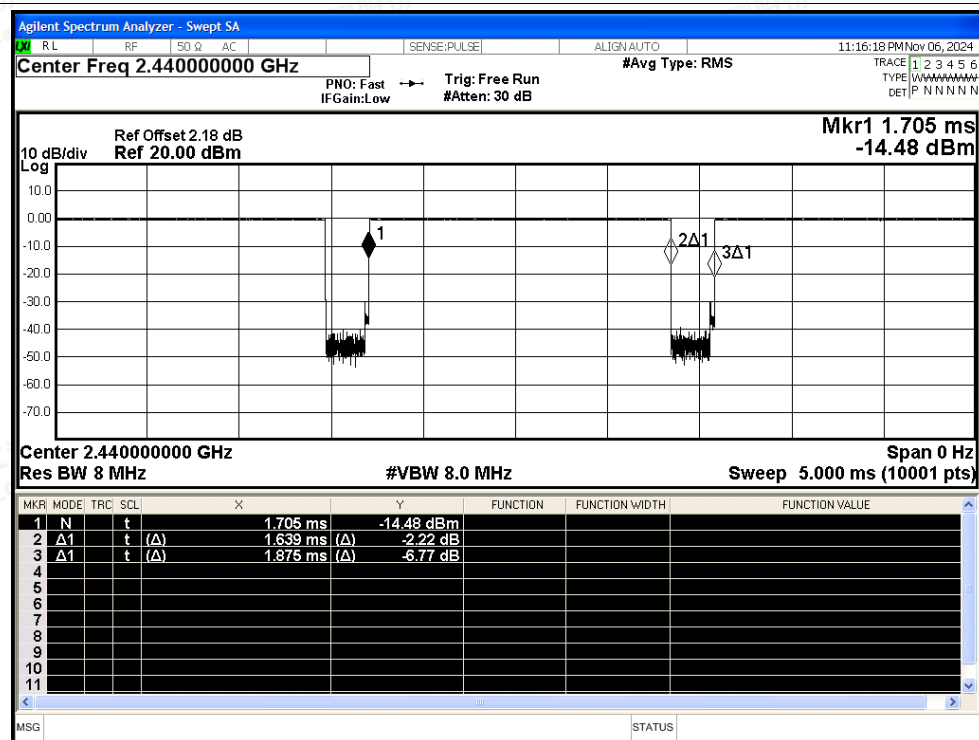


Test Graphs

Duty Cycle NVNT BLE 2402MHz Ant



Duty Cycle NVNT BLE 2440MHz Ant

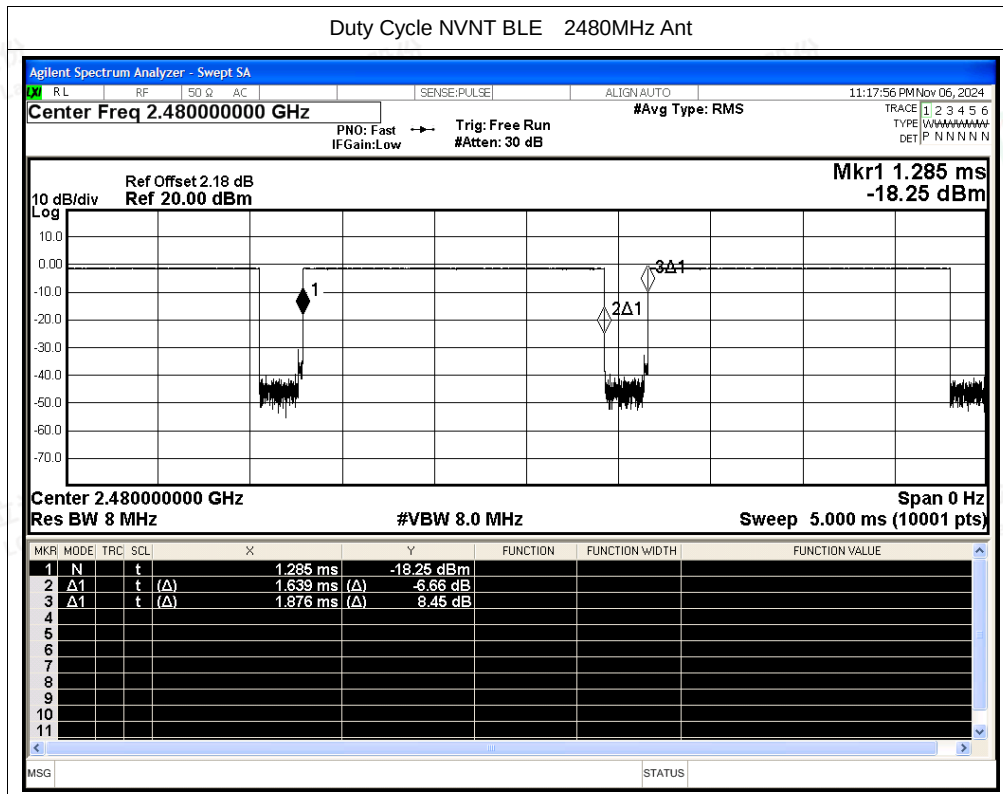


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B.7 Restrict Band

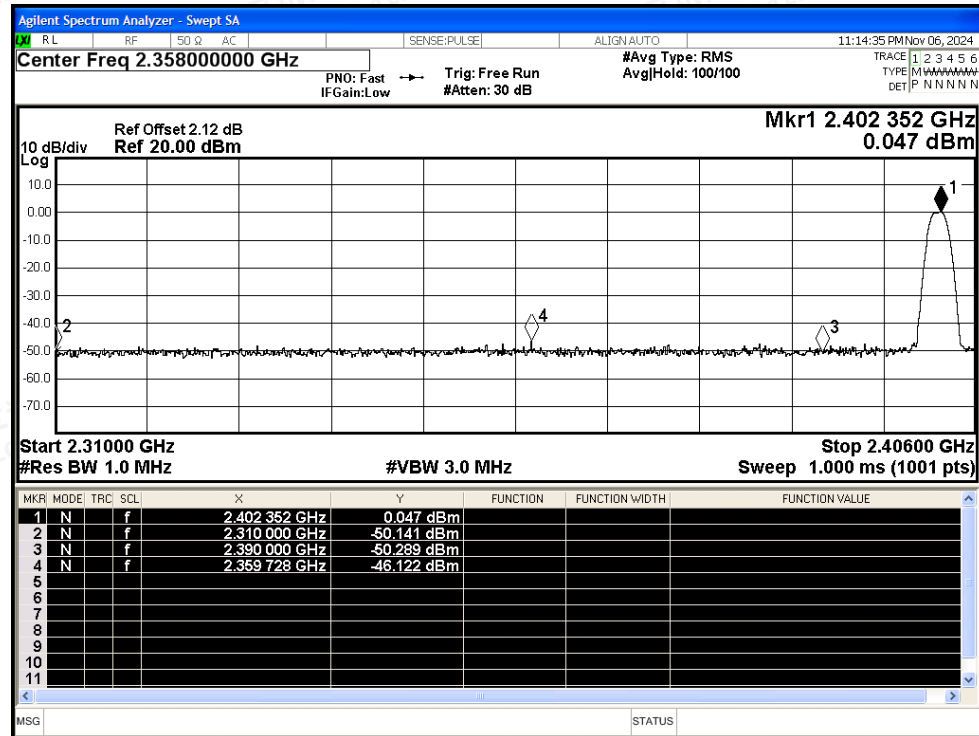
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE	2402	Ant	2310	-50.14	2	-	47.12	Peak	74	Pass
NVNT	BLE	2402	Ant	2310	-57.98	2	0.59	39.87	Average	54	Pass
NVNT	BLE	2402	Ant	2359.728	-46.12	2	-	51.14	Peak	74	Pass
NVNT	BLE	2402	Ant	2363.184	-57.53	2	0.59	40.32	Average	54	Pass
NVNT	BLE	2402	Ant	2390	-50.29	2	-	46.97	Peak	74	Pass
NVNT	BLE	2402	Ant	2390	-58.3	2	0.59	39.55	Average	54	Pass
NVNT	BLE	2480	Ant	2483.5	-50.33	2	-	46.93	Peak	74	Pass
NVNT	BLE	2480	Ant	2483.5	-57.62	2	0.59	40.23	Average	54	Pass
NVNT	BLE	2480	Ant	2488.864	-47.03	2	-	50.23	Peak	74	Pass
NVNT	BLE	2480	Ant	2483.8	-57.13	2	0.59	40.72	Average	54	Pass
NVNT	BLE	2480	Ant	2500	-49.86	2	-	47.4	Peak	74	Pass
NVNT	BLE	2480	Ant	2500	-58.19	2	0.59	39.66	Average	54	Pass



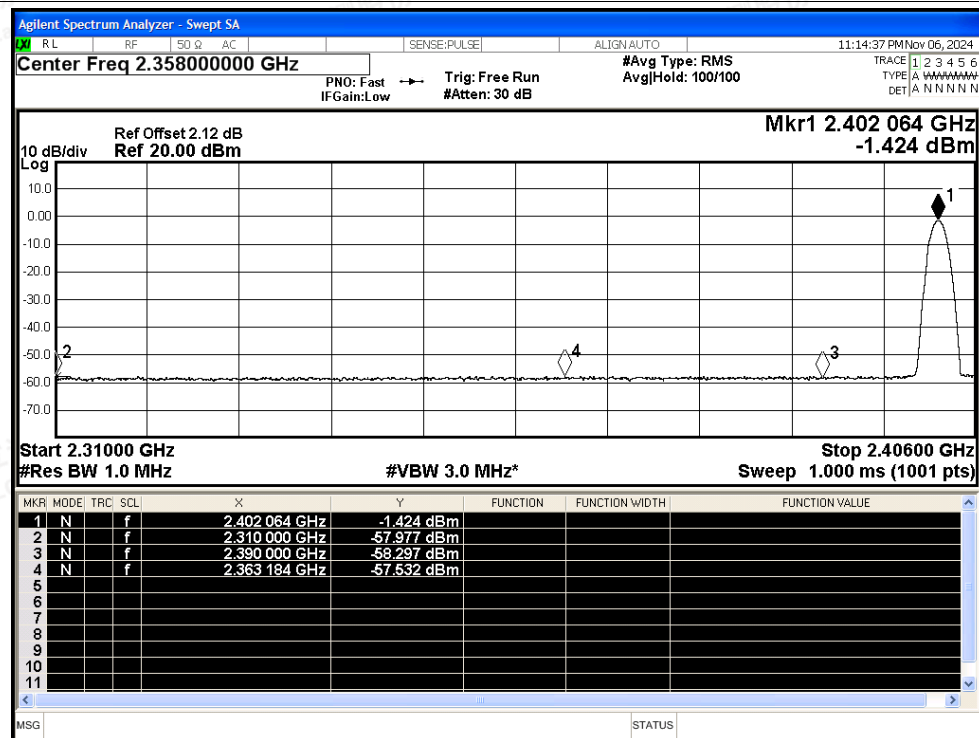


Test Graphs

Restrict Band NVNT BLE 2402MHz Ant Peak



Restrict Band NVNT BLE 2402MHz Ant Average

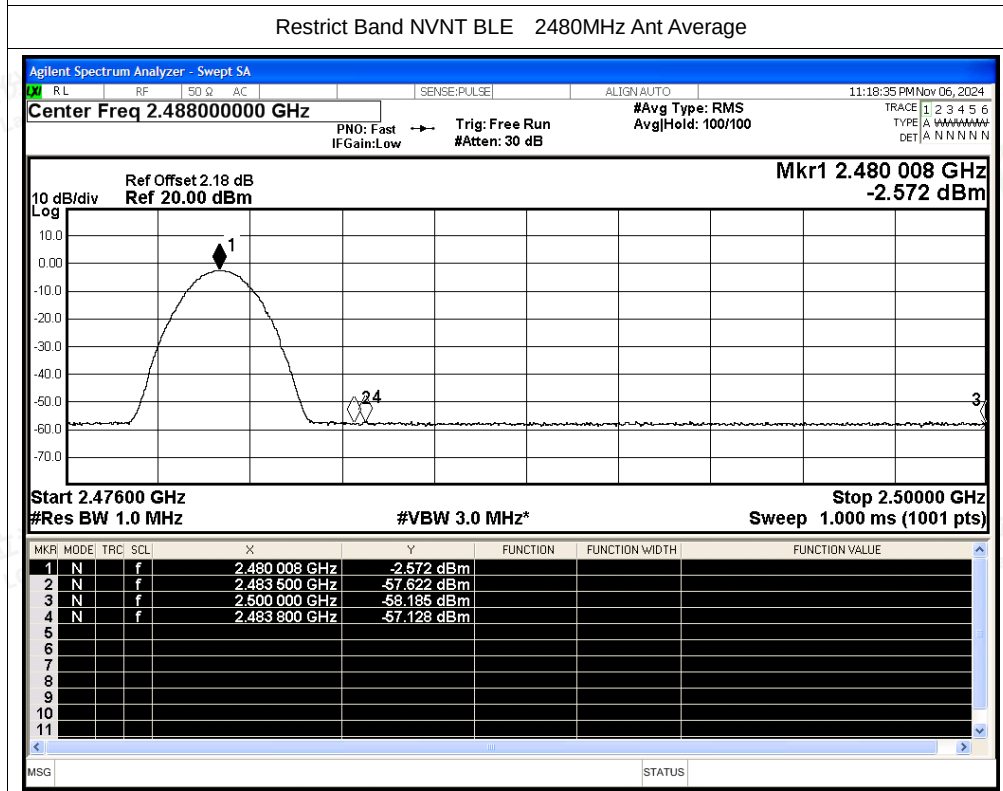
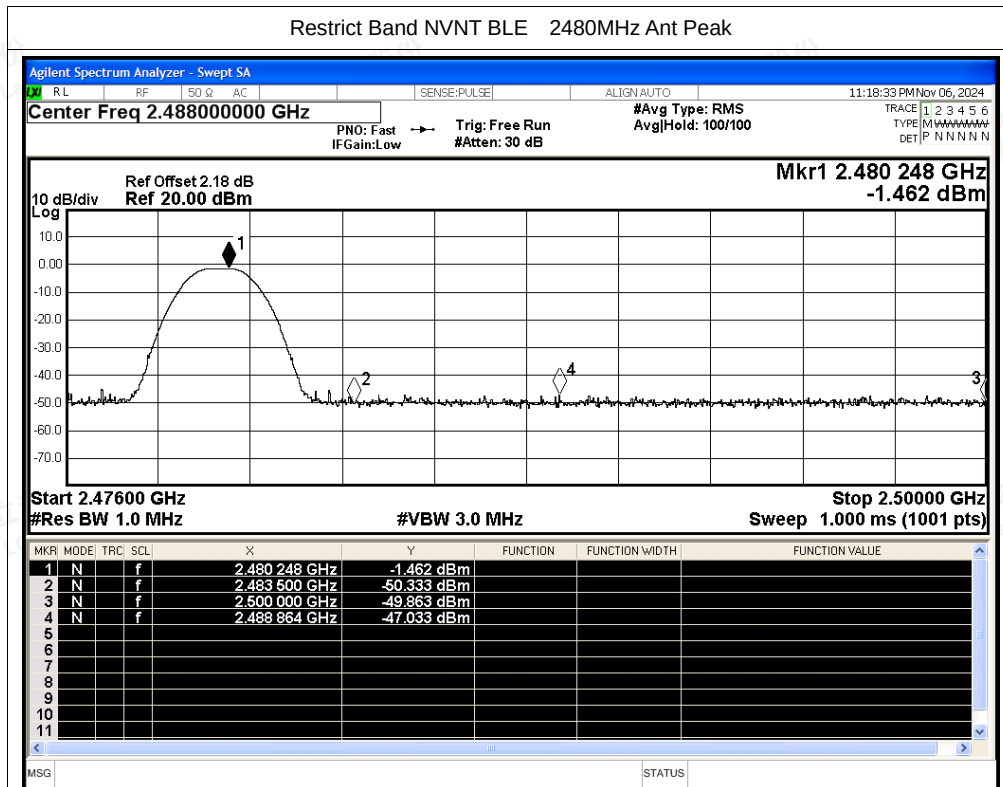


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