



## Appendix A

### RF Test Data for BLE (Conducted Measurement)

Product Name: Anti-lost

Test Model: E-tag

#### Environmental Conditions

Temperature:	23.1°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Joker Hu





### A.1 -6dB Bandwidth

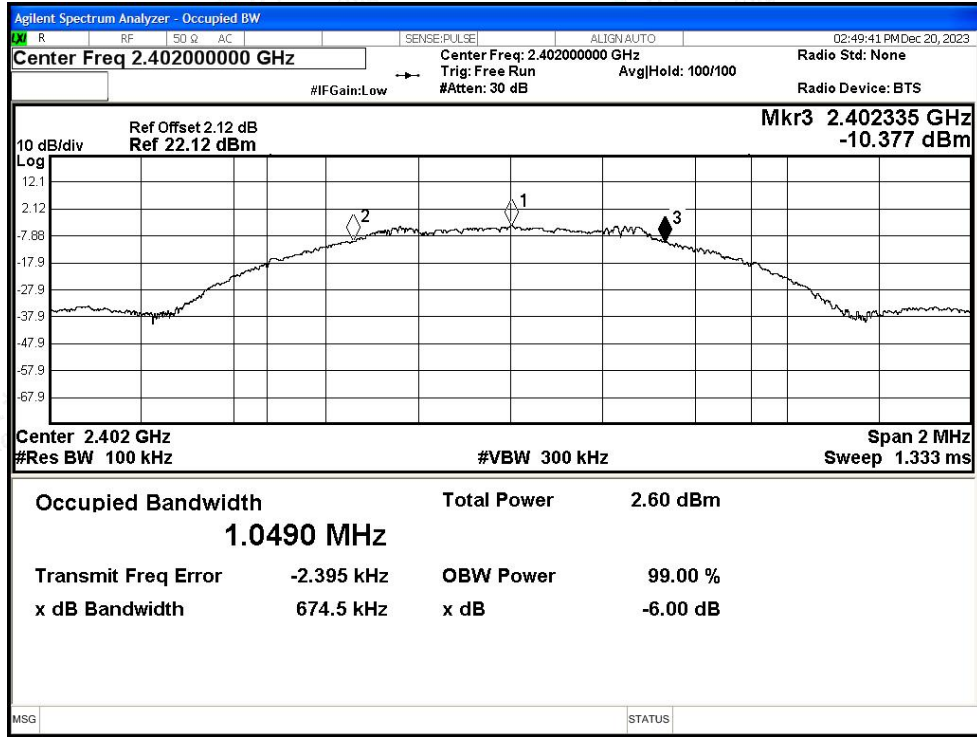
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.675	$\geq 0.5$	Pass
NVNT	BLE 1M	2440	Ant1	0.663	$\geq 0.5$	Pass
NVNT	BLE 1M	2480	Ant1	0.659	$\geq 0.5$	Pass



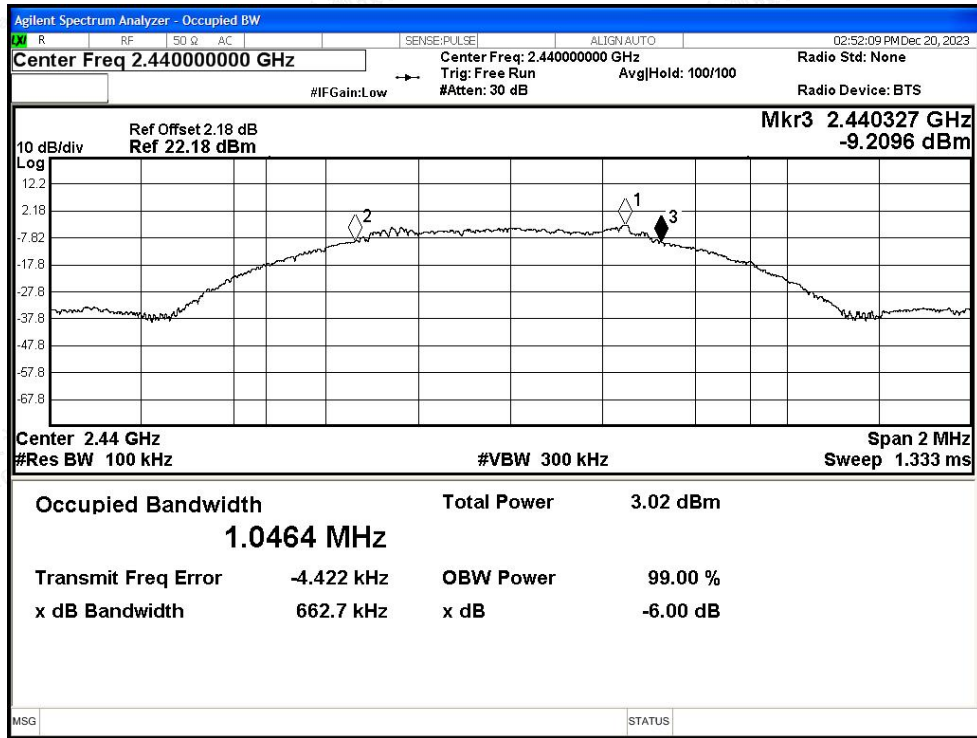


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

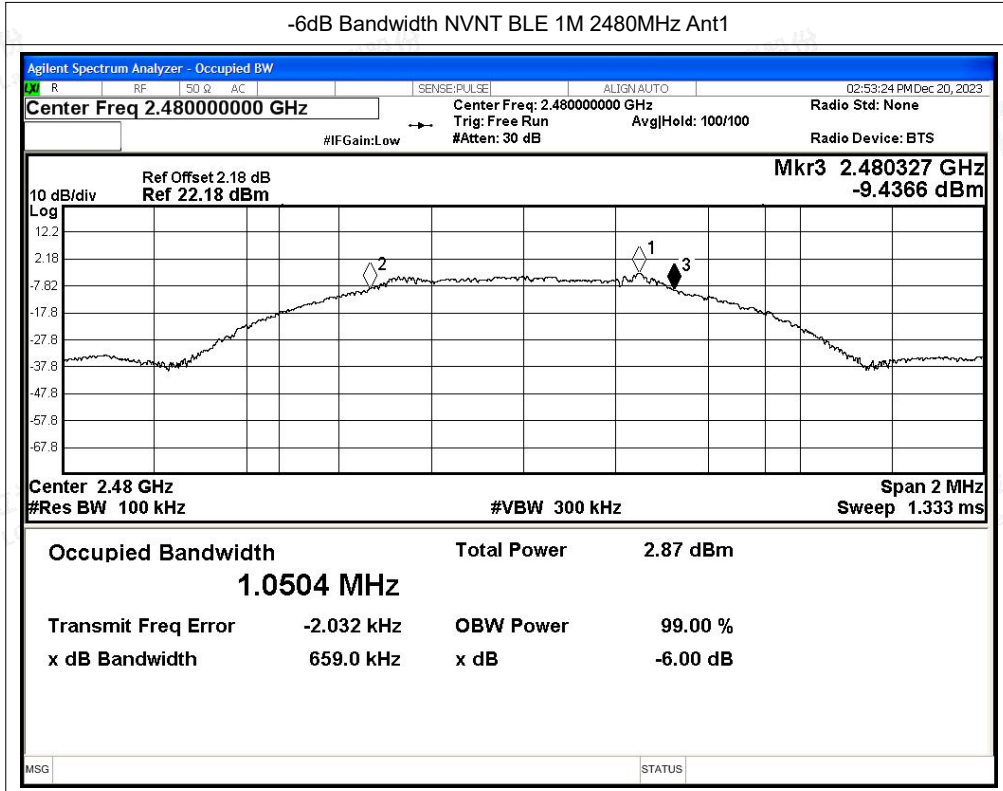


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## A.2 Maximum Conducted Output Power

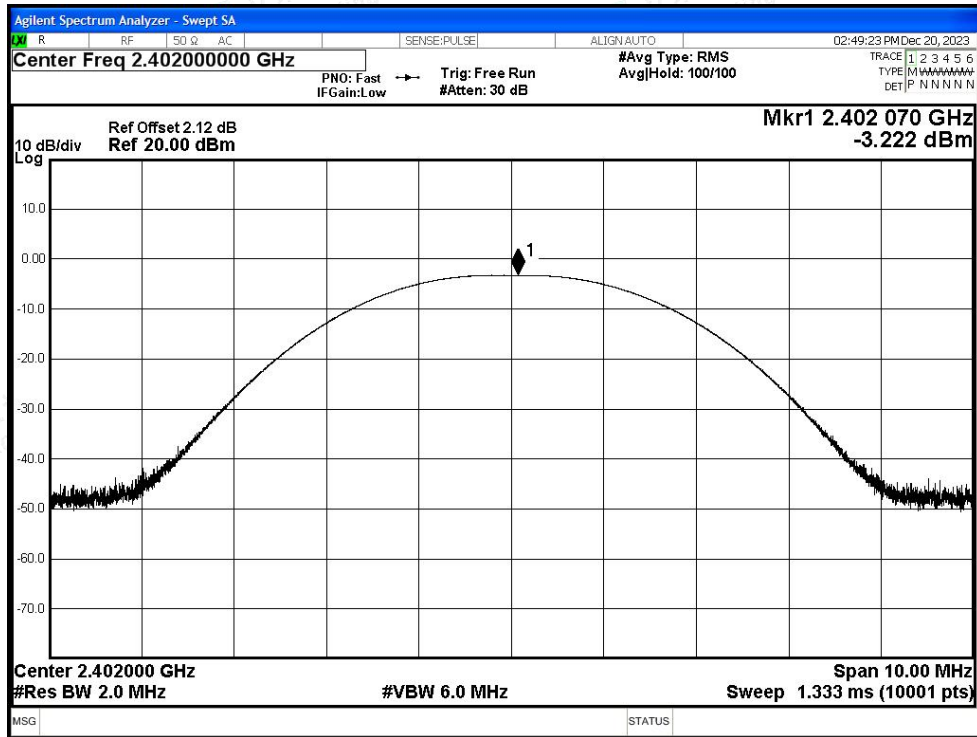
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-3.22	30	Pass
NVNT	BLE 1M	2440	Ant1	-2.8	30	Pass
NVNT	BLE 1M	2480	Ant1	-2.9	30	Pass



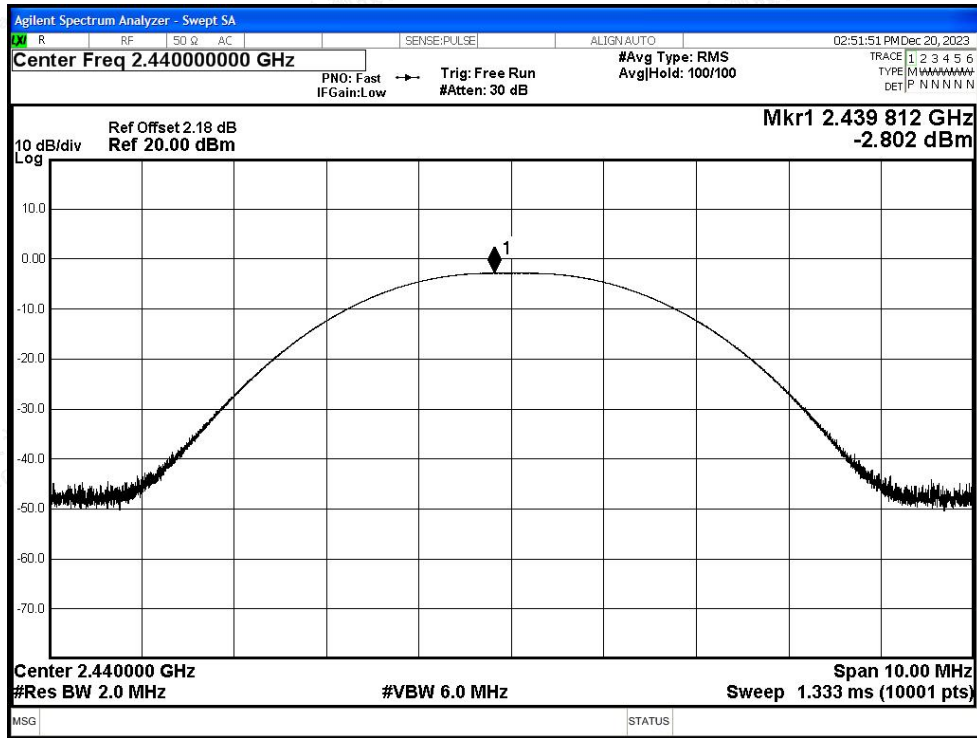


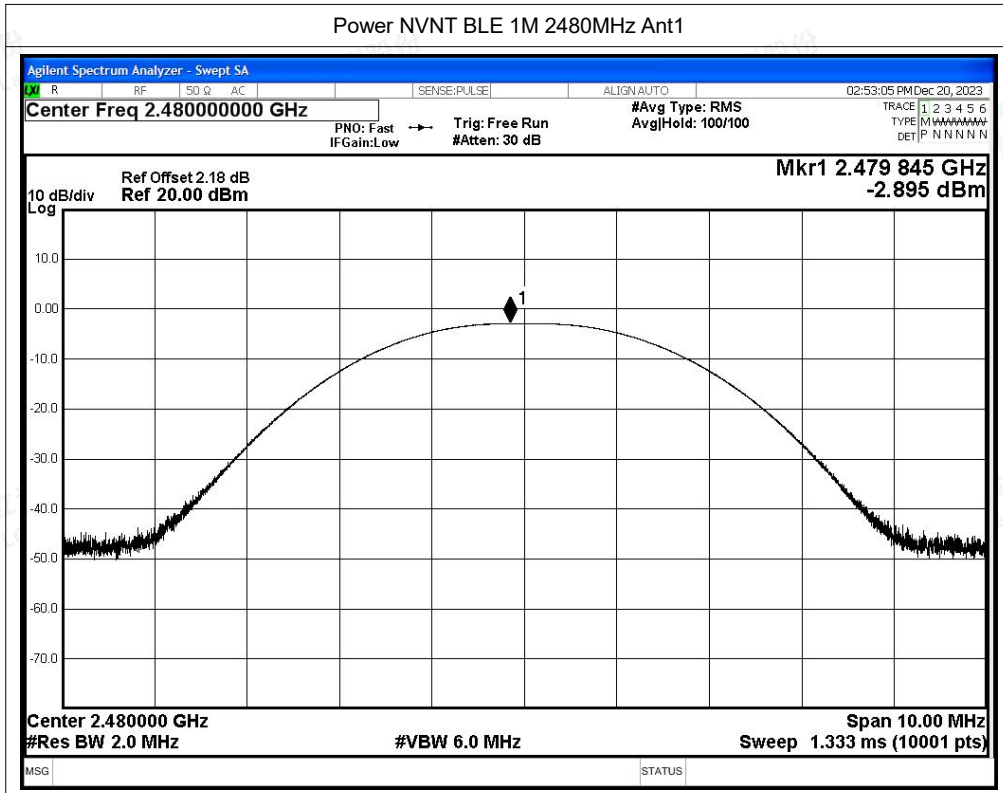
Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1







### A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-19.67	8	Pass
NVNT	BLE 1M	2440	Ant1	-19.59	8	Pass
NVNT	BLE 1M	2480	Ant1	-19.37	8	Pass

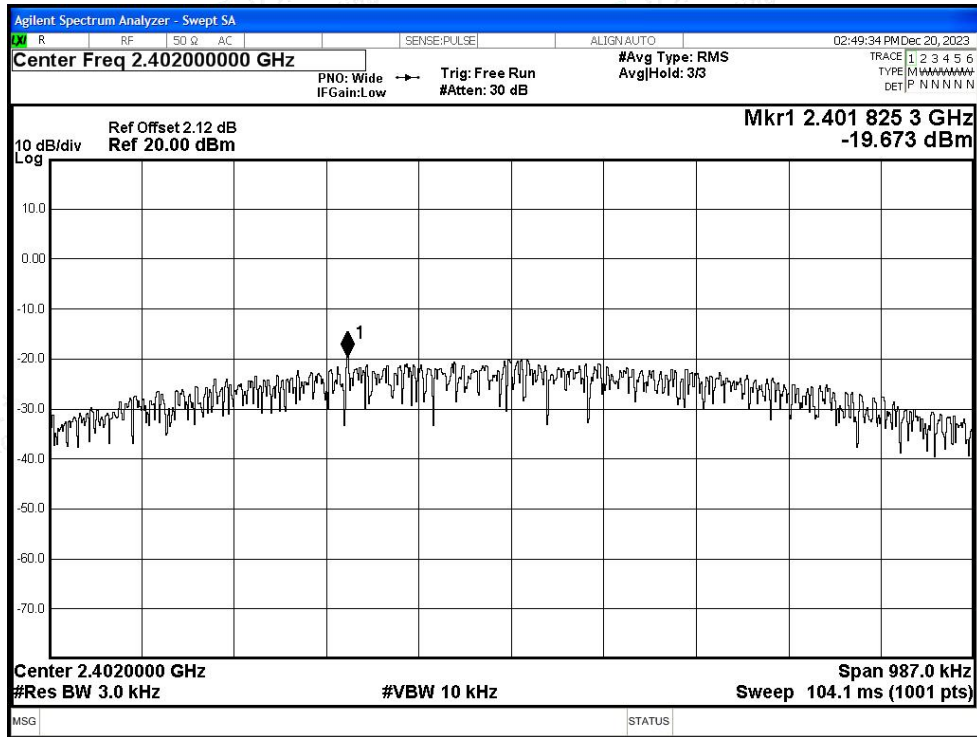




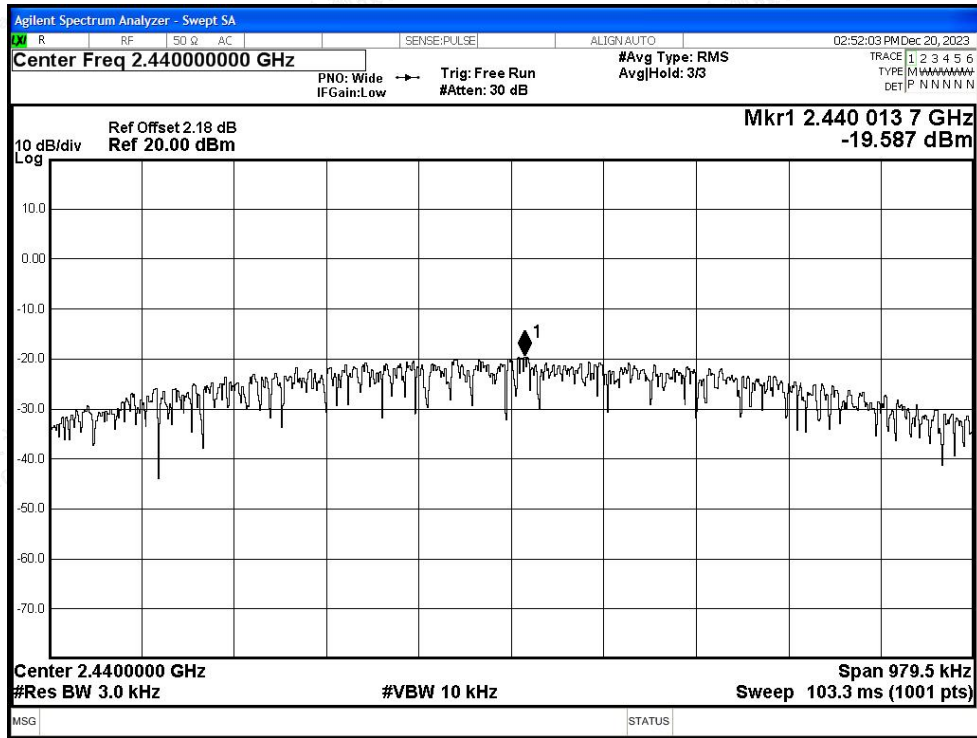


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

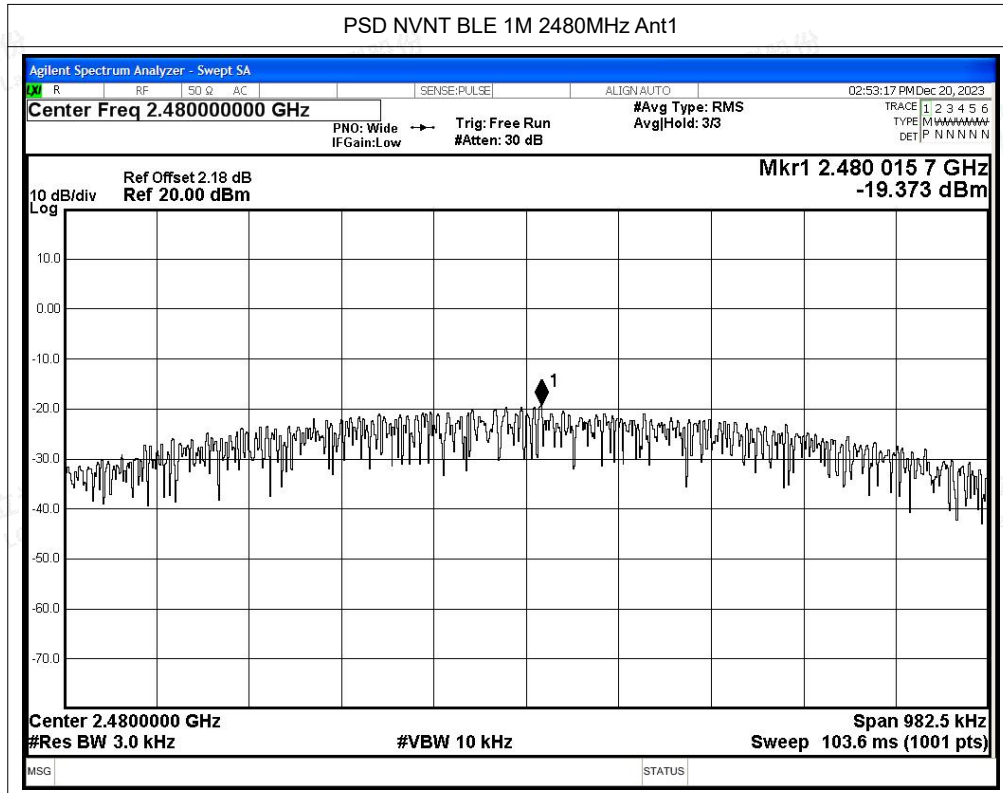


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## A.4 Band Edge

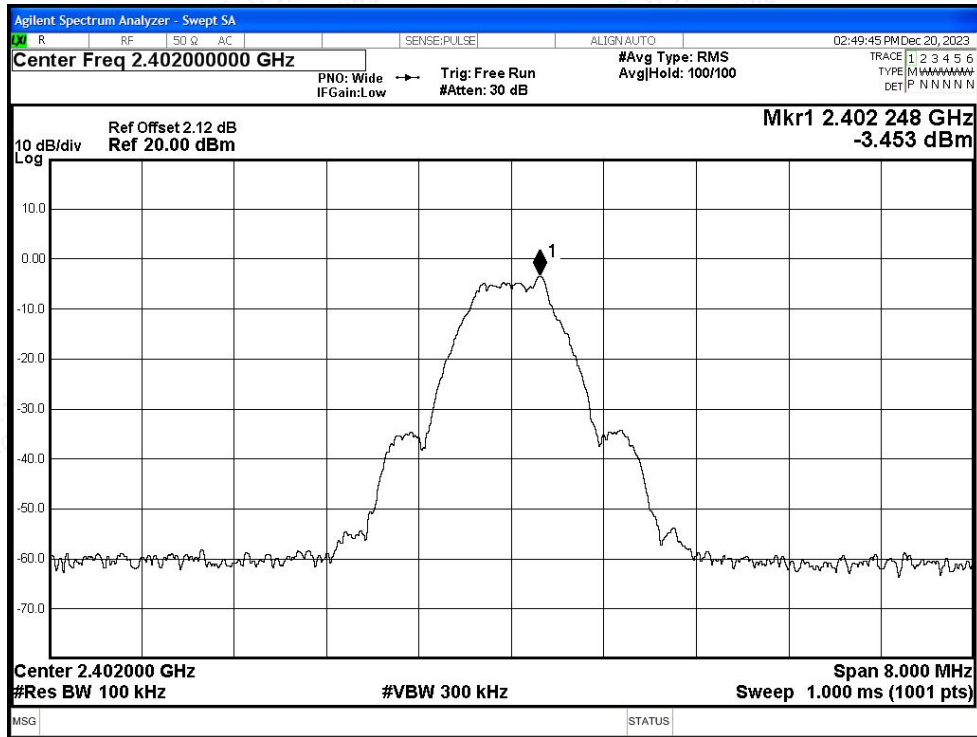
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.28	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.7	-20	Pass



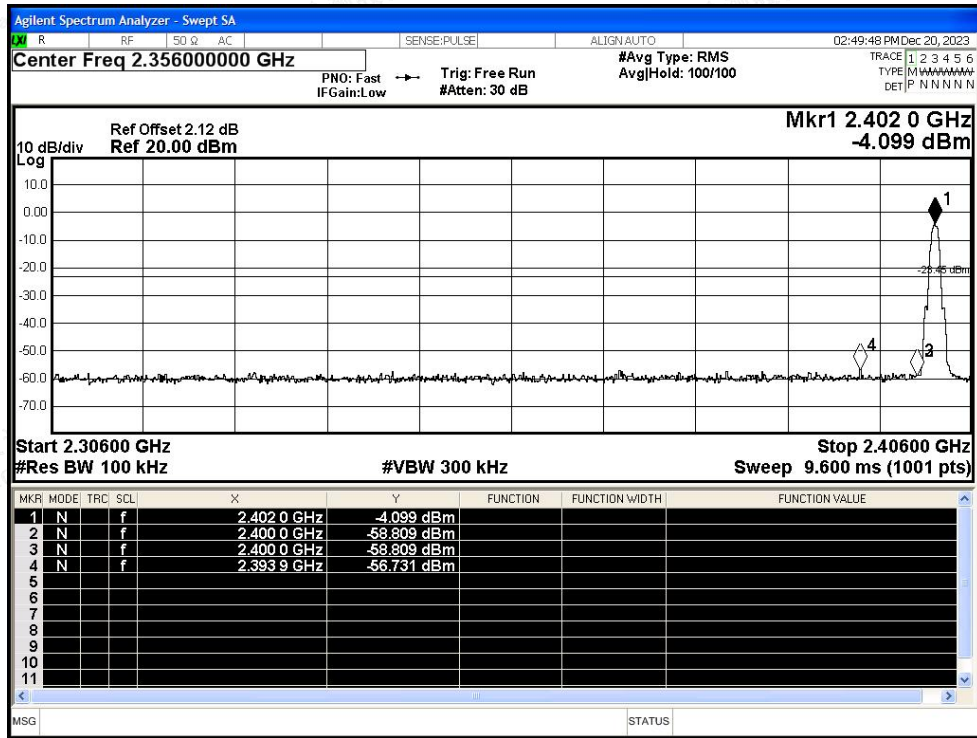


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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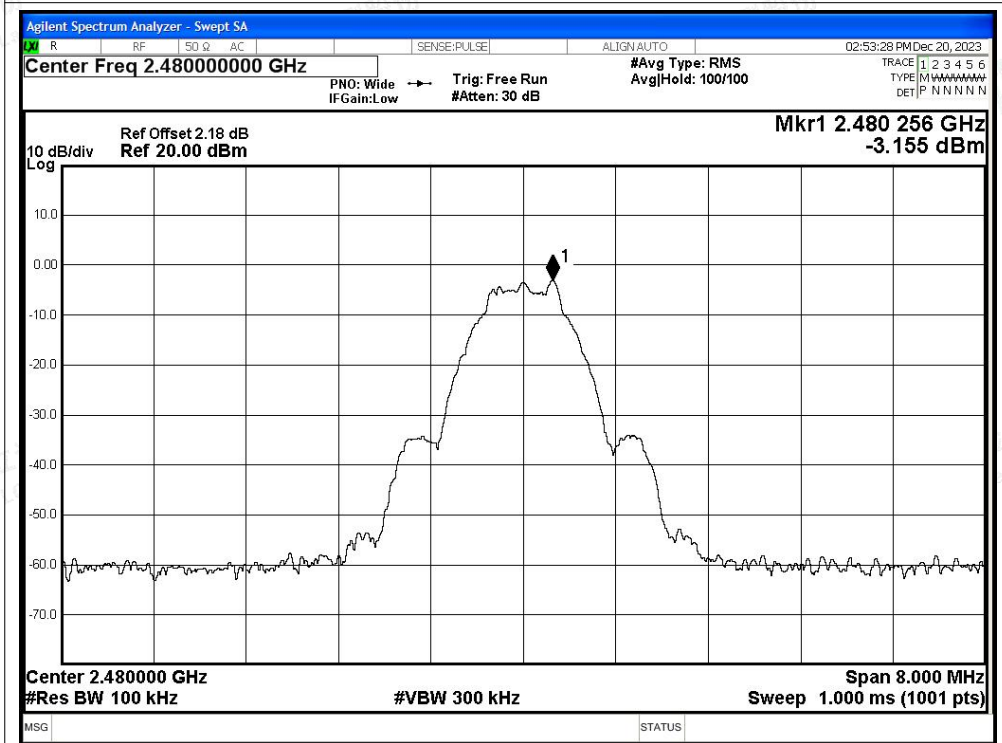
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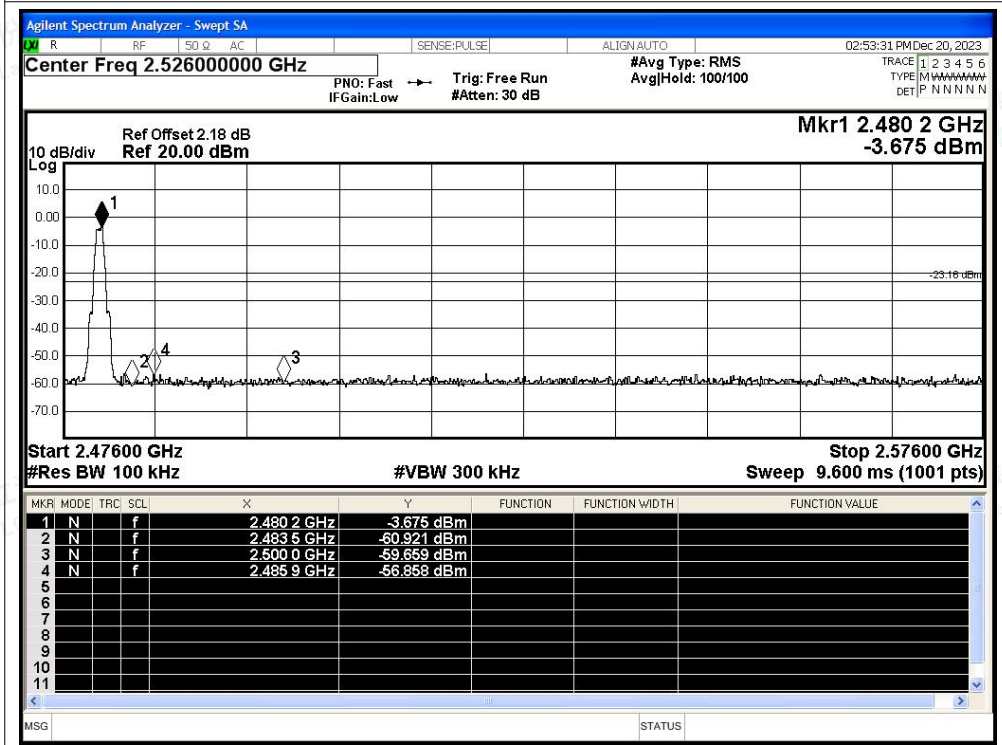
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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## A.5 Conducted RF Spurious Emission

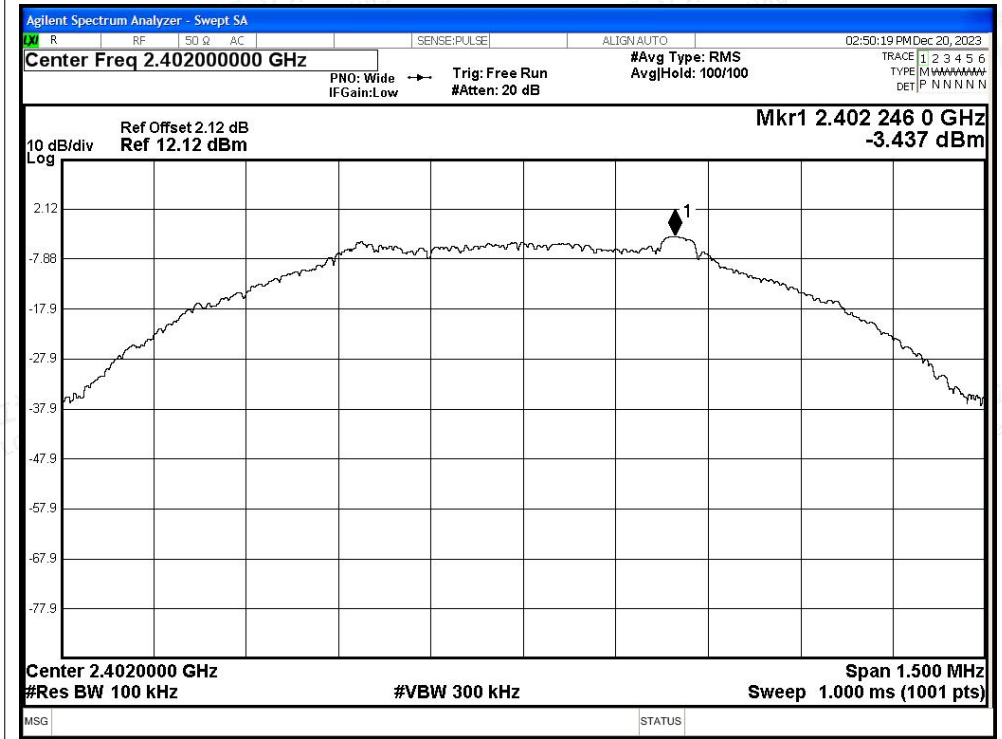
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.27	-20	Pass
NVNT	BLE 1M	2440	Ant1	-52.01	-20	Pass
NVNT	BLE 1M	2480	Ant1	-51.41	-20	Pass



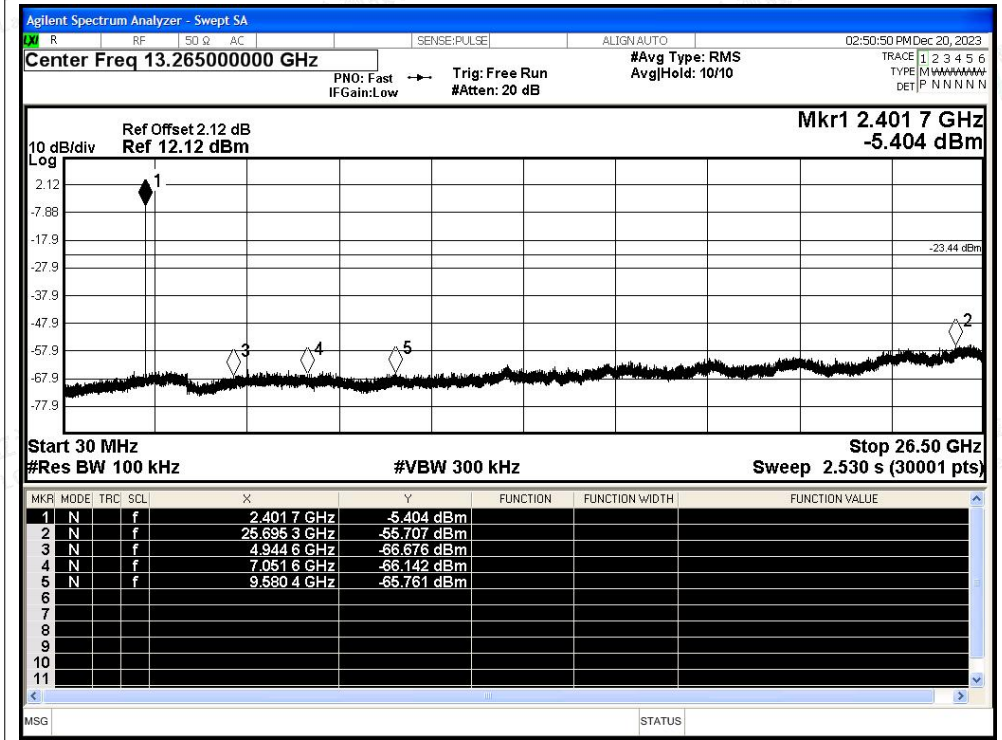


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

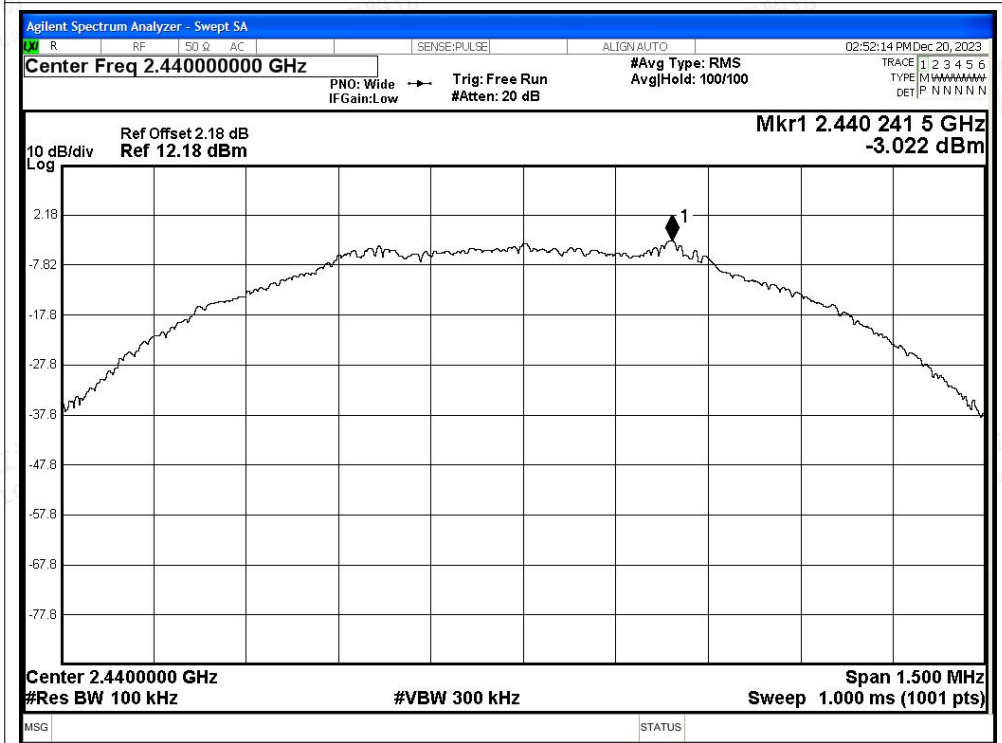
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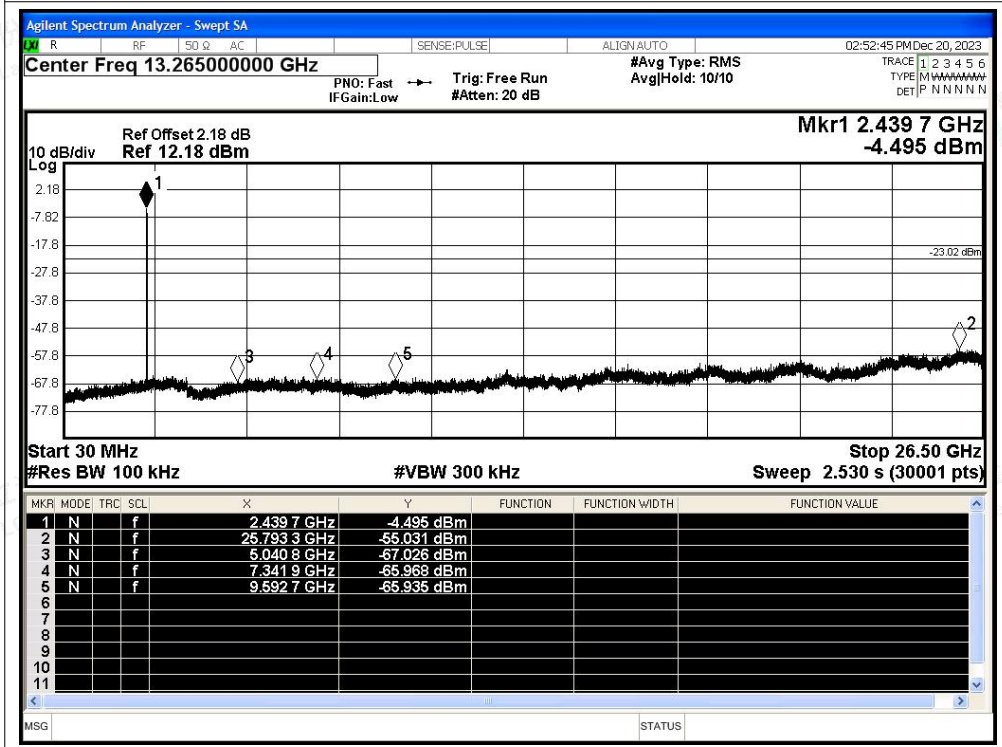
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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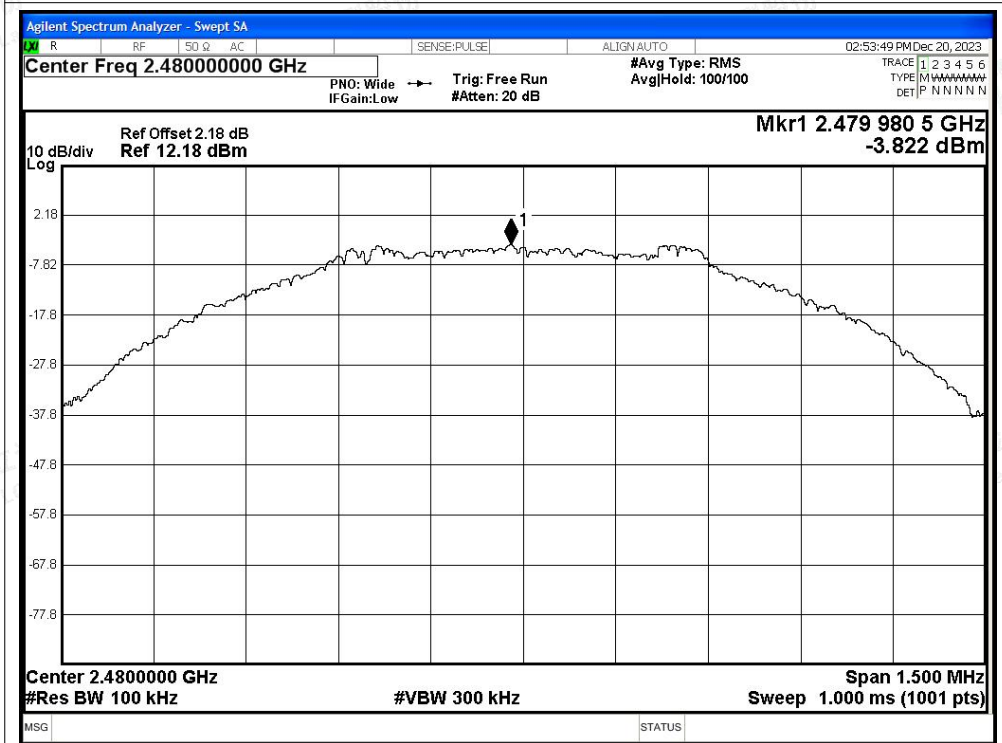
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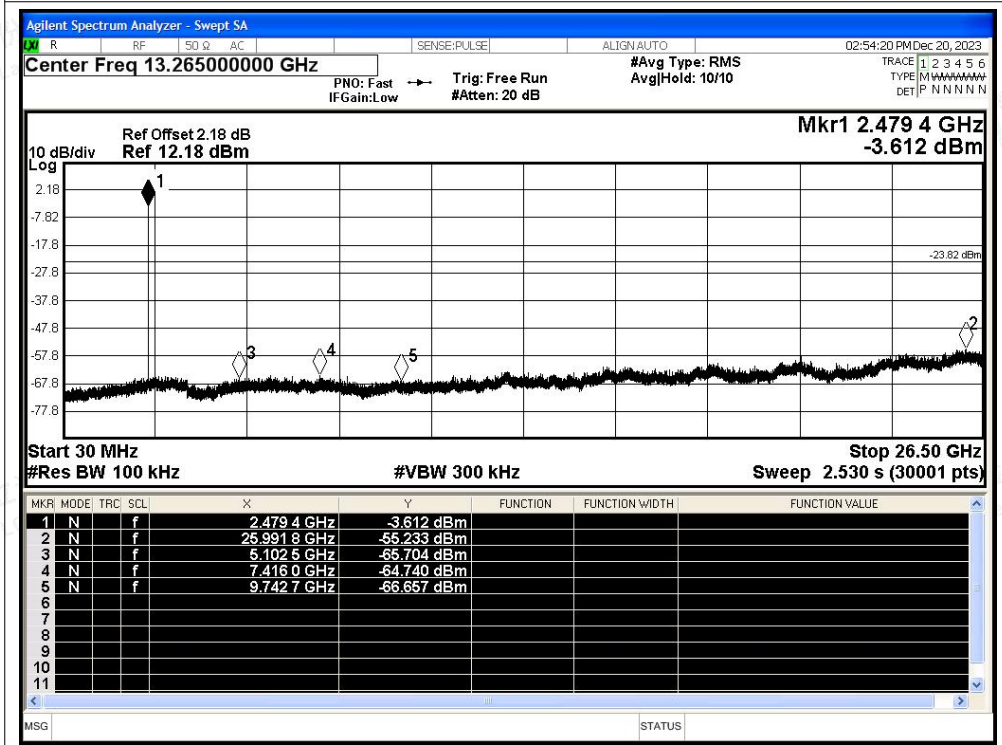




Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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## A.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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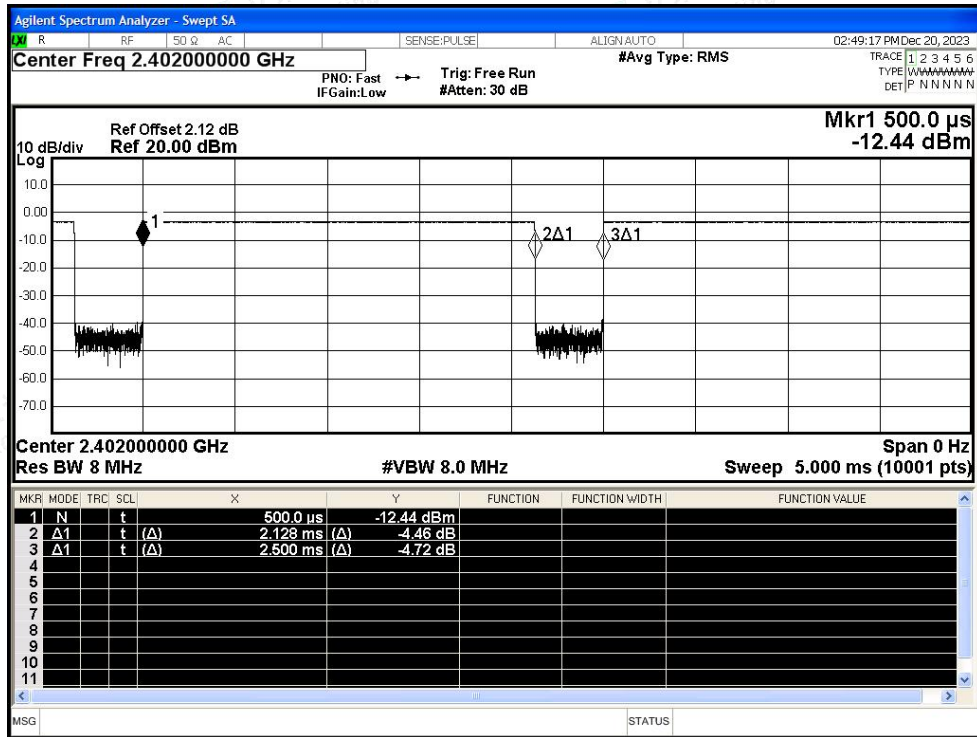
Tel: +(86) 0755-82591330 | E-mail: [webmaster@lcs-cert.com](mailto:webmaster@lcs-cert.com) | Web: [www.lcs-cert.com](http://www.lcs-cert.com)

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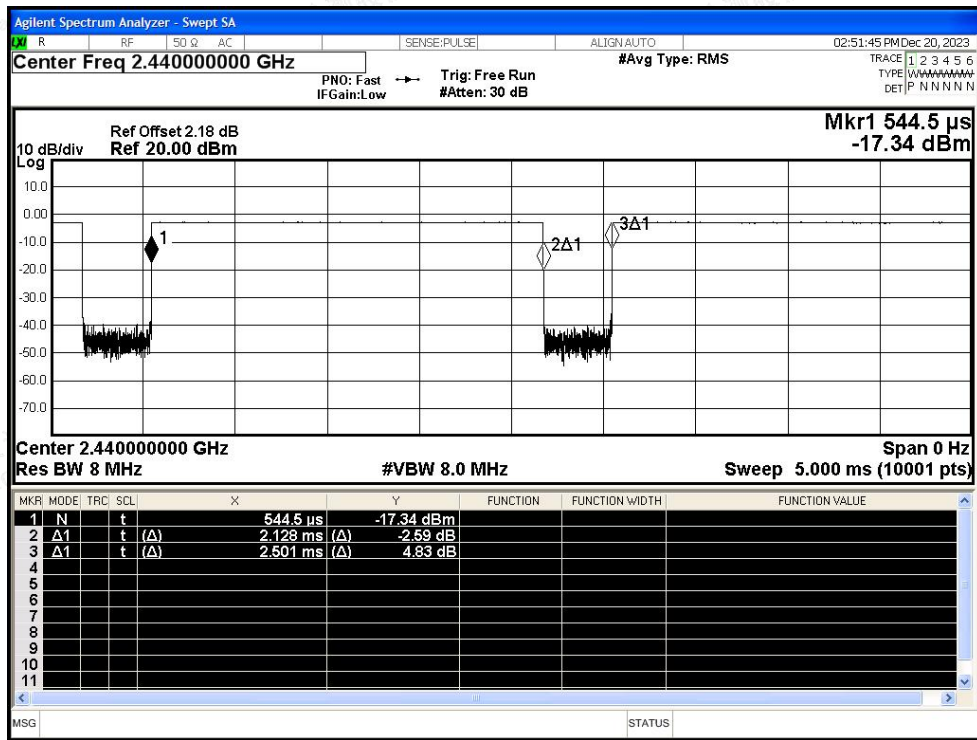


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

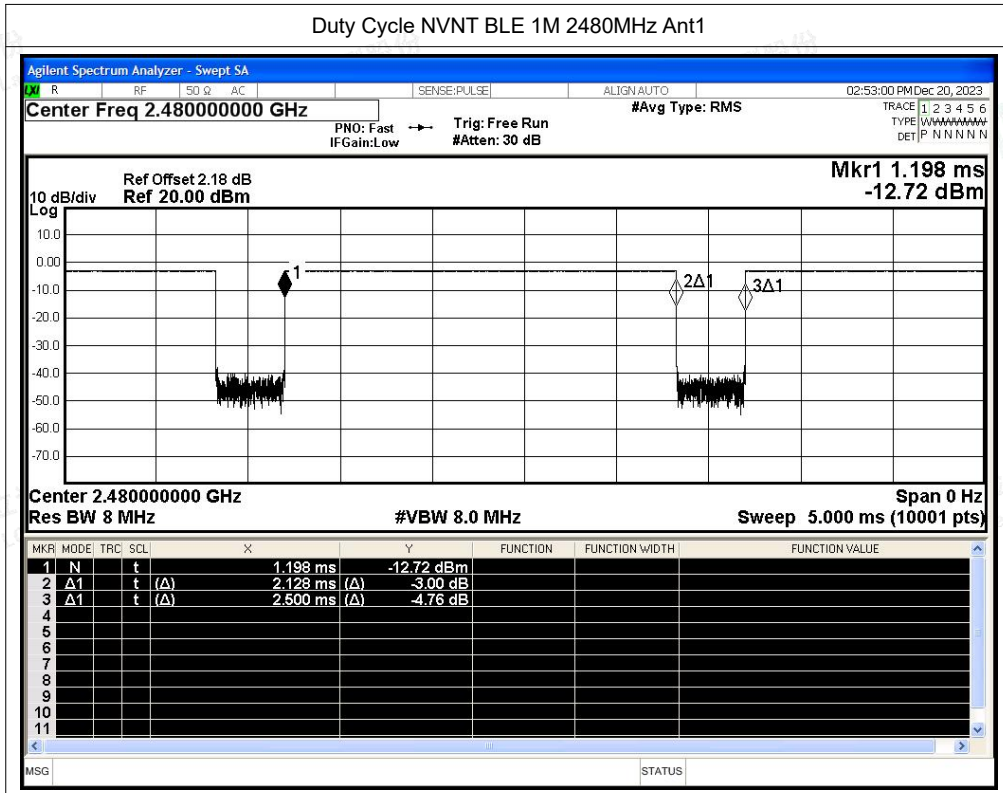


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### A.7 Restrict Band

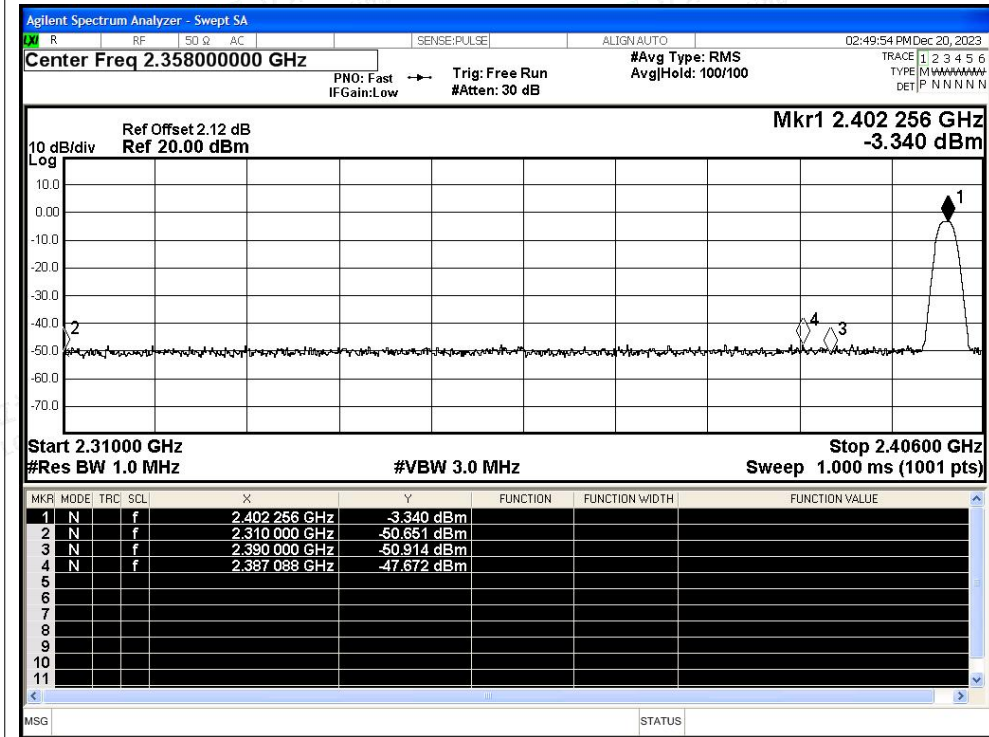
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-50.65	2.25	46.86	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-57.57	2.25	39.94	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2387.088	-47.67	2.25	49.84	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2388.912	-57.19	2.25	40.32	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.91	2.25	46.60	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-57.4	2.25	40.11	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-49.25	2.25	48.26	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-56.05	2.25	41.46	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2497.096	-46.72	2.25	50.79	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.512	-56.05	2.25	41.46	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.3	2.25	47.21	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-57.01	2.25	40.50	Average	54	Pass



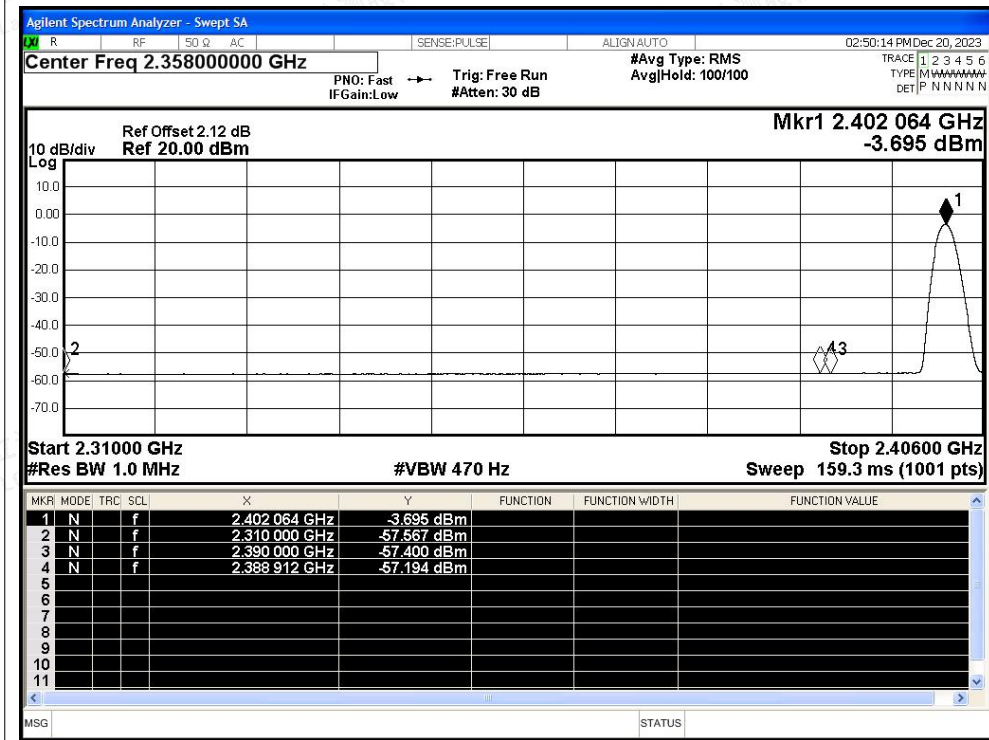


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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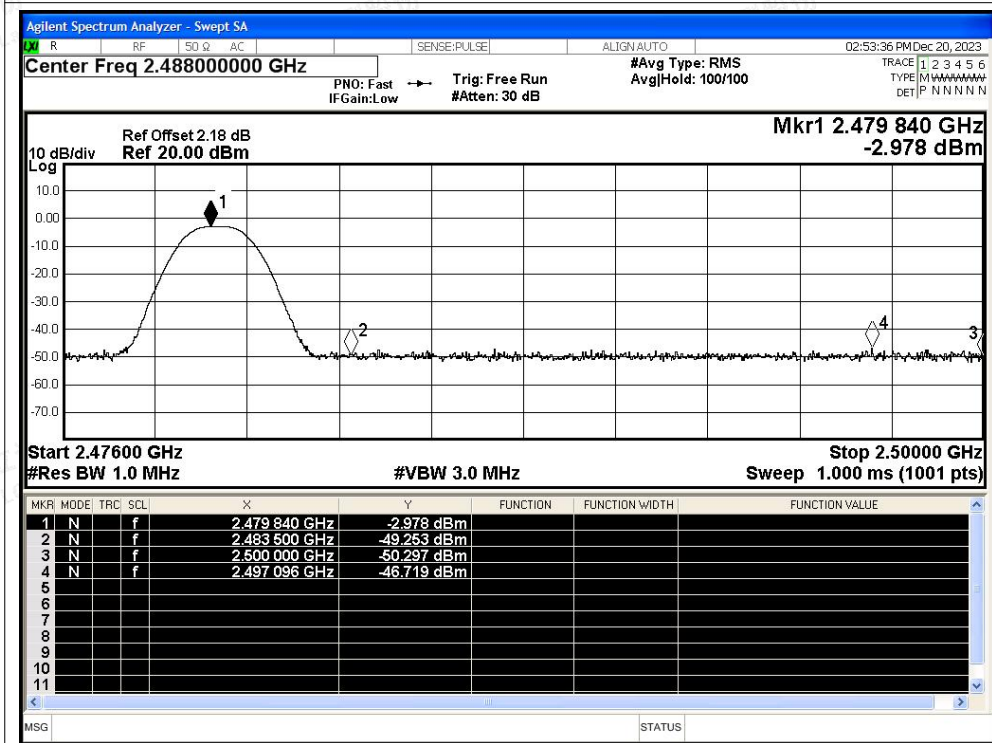
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average

