

## Appendix Test Data

### Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	62.9	2.01	2.56
NVNT	BLE 1M	2440	Ant1	63.49	1.97	2.5
NVNT	BLE 1M	2480	Ant1	64.52	1.9	2.5
NVNT	BLE 2M	2402	Ant1	33.87	4.7	4.76
NVNT	BLE 2M	2440	Ant1	34.92	4.57	4.55
NVNT	BLE 2M	2480	Ant1	33.33	4.77	4.76

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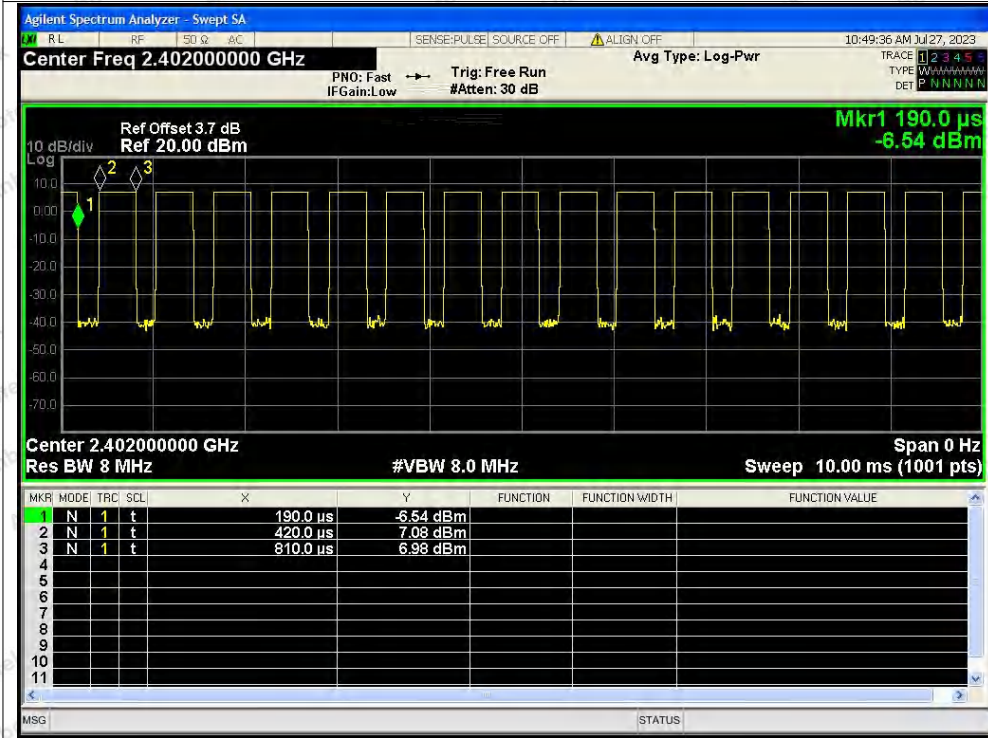


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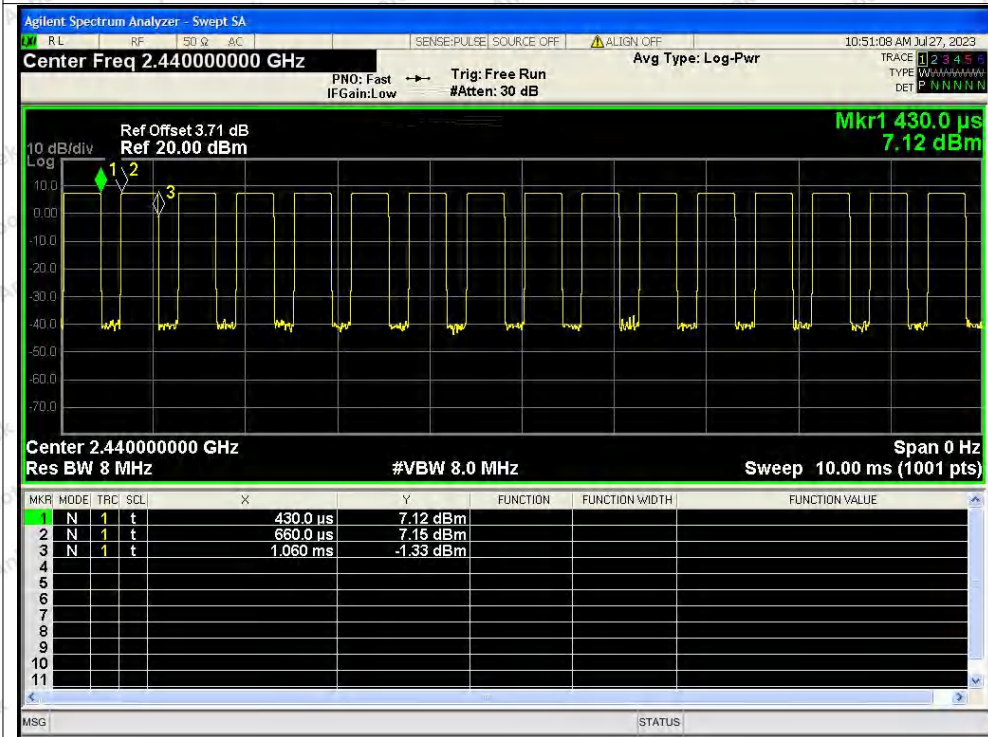


### Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

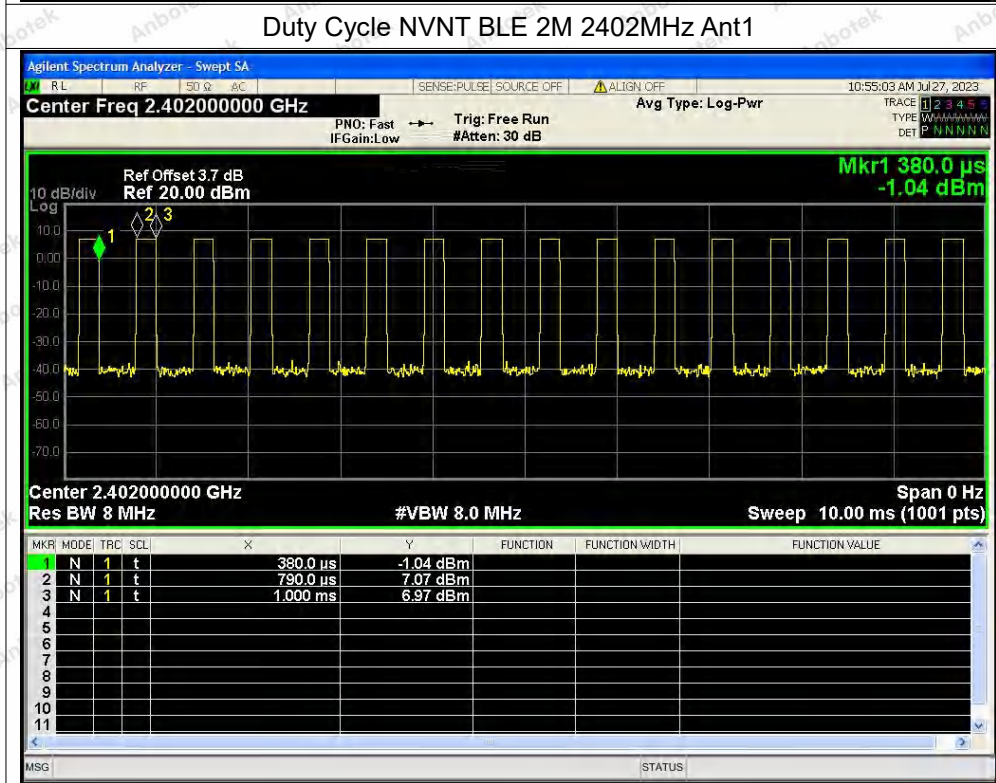
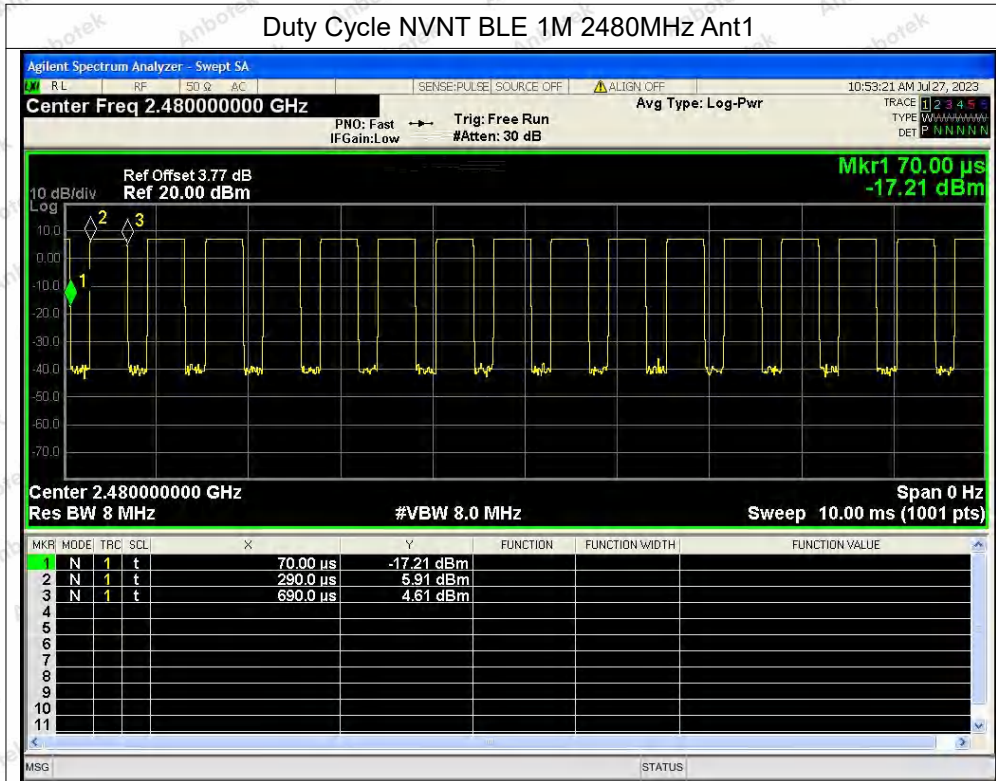


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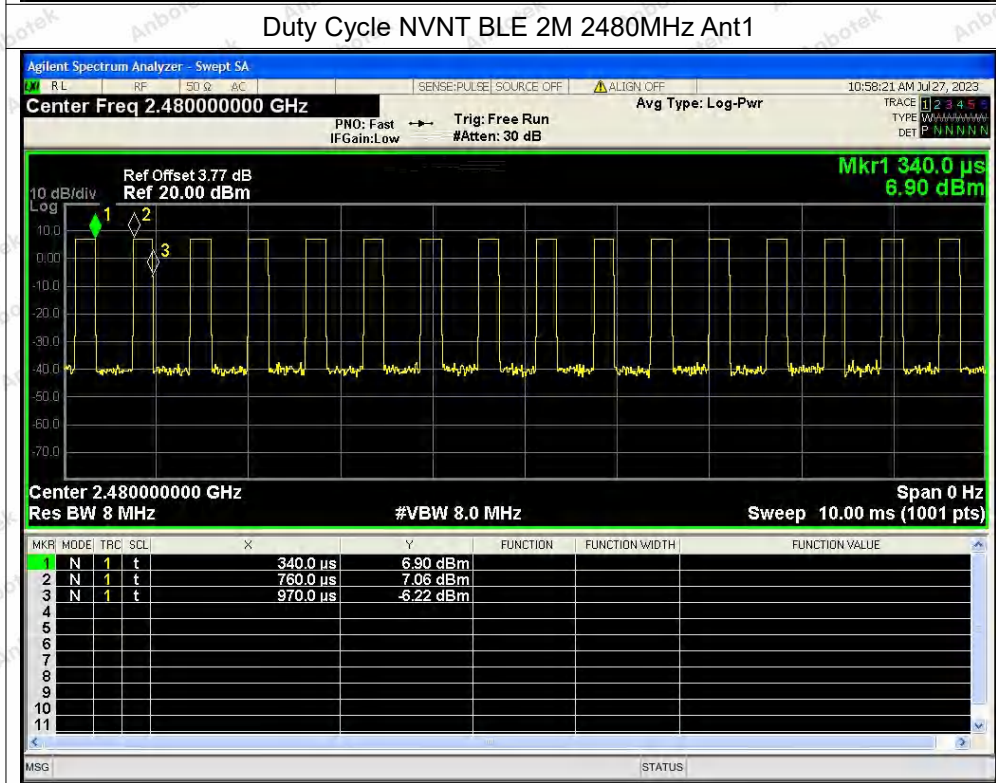
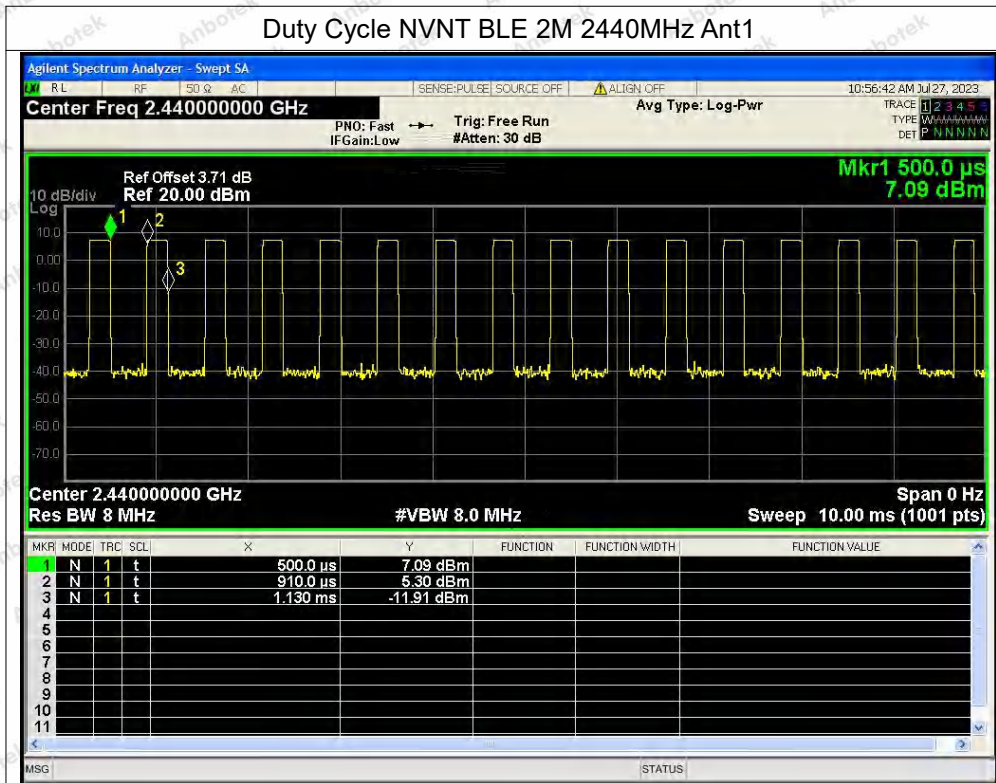


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## Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (mW)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	7.06	0	7.06	5.08	30	Pass
NVNT	BLE 1M	2440	Ant1	7.21	0	7.21	5.26	30	Pass
NVNT	BLE 1M	2480	Ant1	7.03	0	7.03	5.05	30	Pass
NVNT	BLE 2M	2402	Ant1	7.06	0	7.06	5.08	30	Pass
NVNT	BLE 2M	2440	Ant1	7.21	0	7.21	5.26	30	Pass
NVNT	BLE 2M	2480	Ant1	7	0	7	5.01	30	Pass

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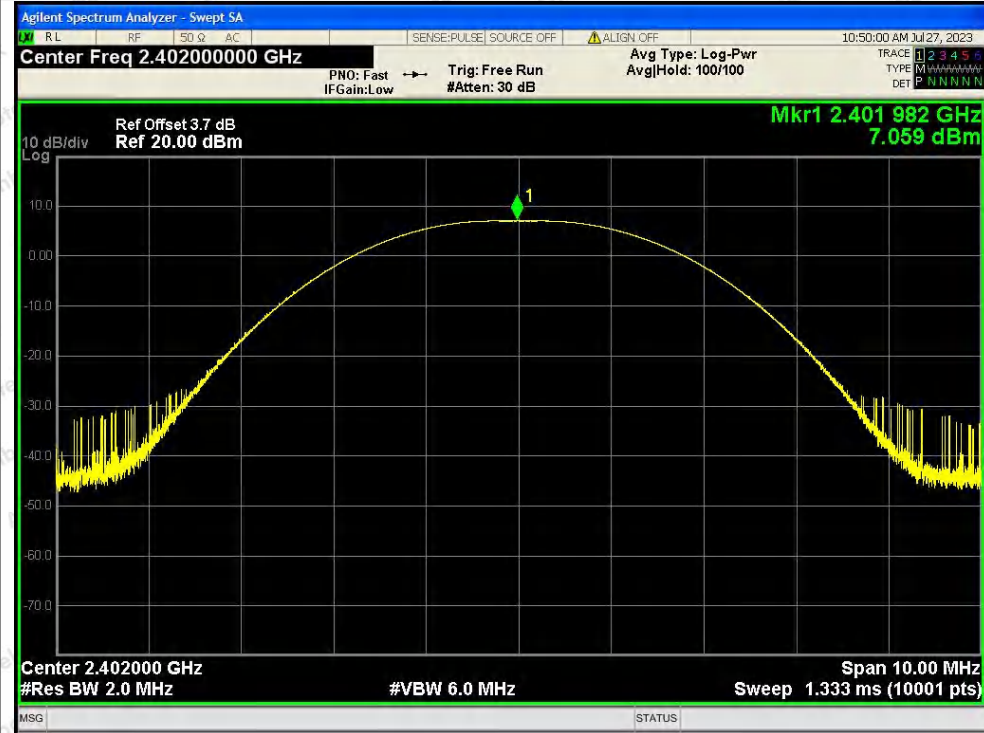


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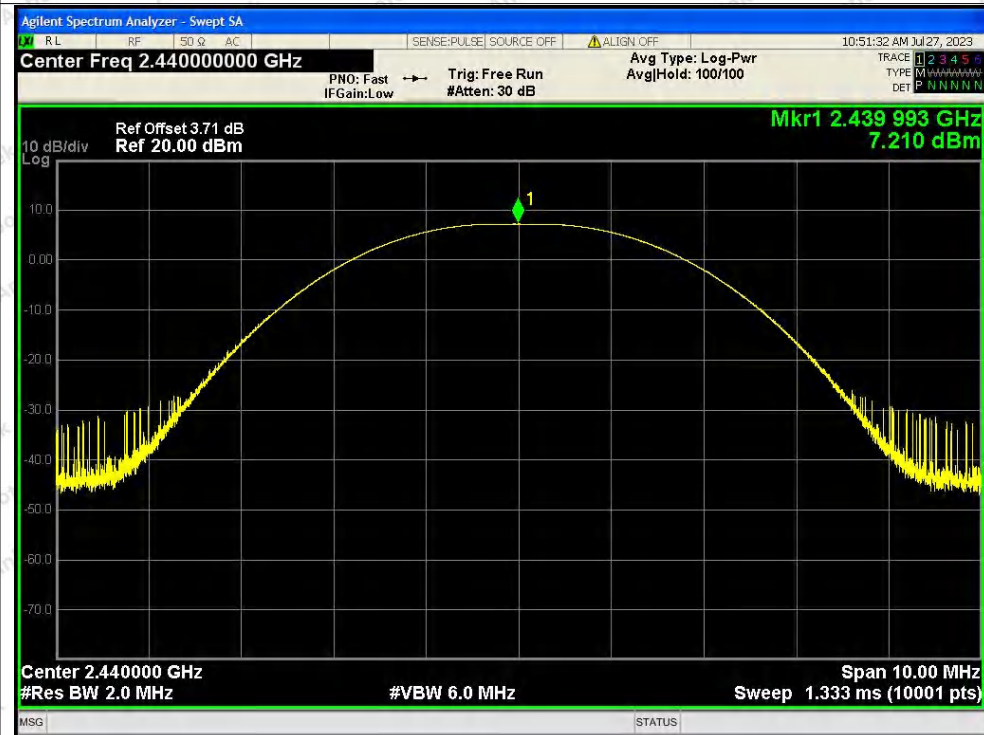


### Test Graphs

#### Peak Power NVNT BLE 1M 2402MHz Ant1



#### Peak Power NVNT BLE 1M 2440MHz Ant1

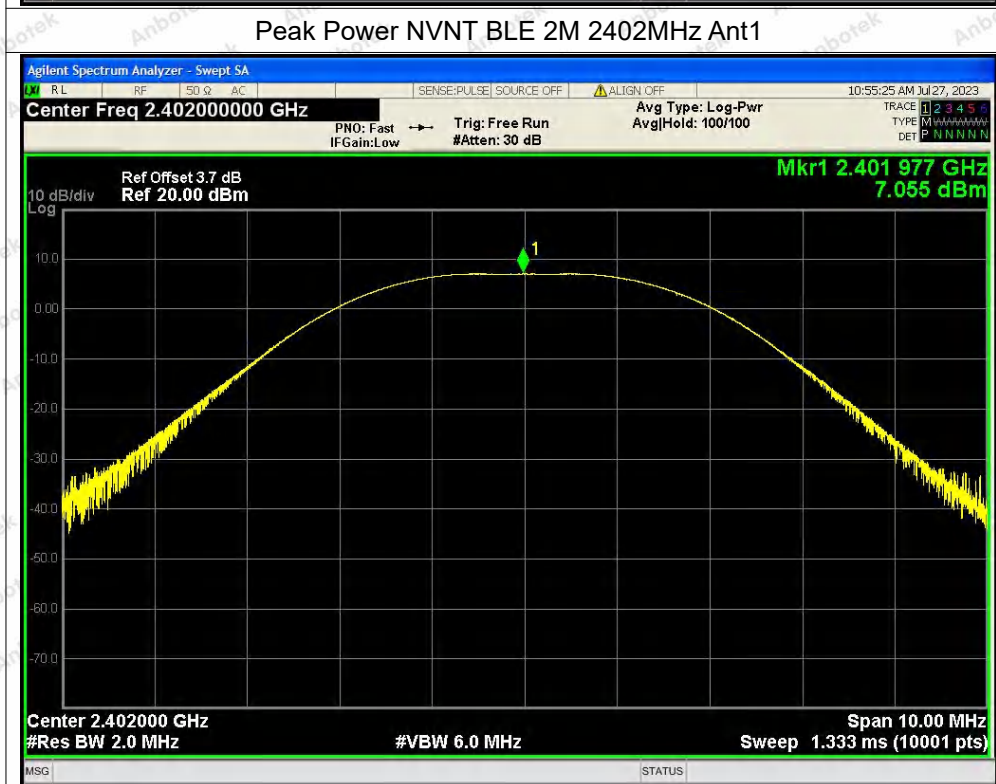
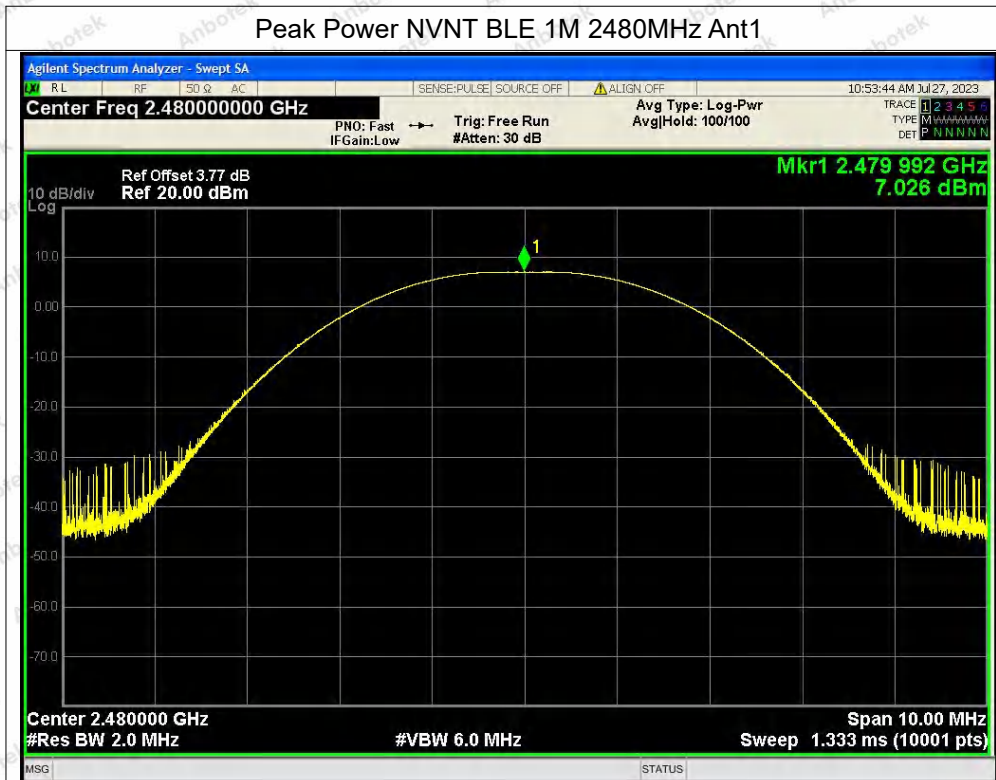


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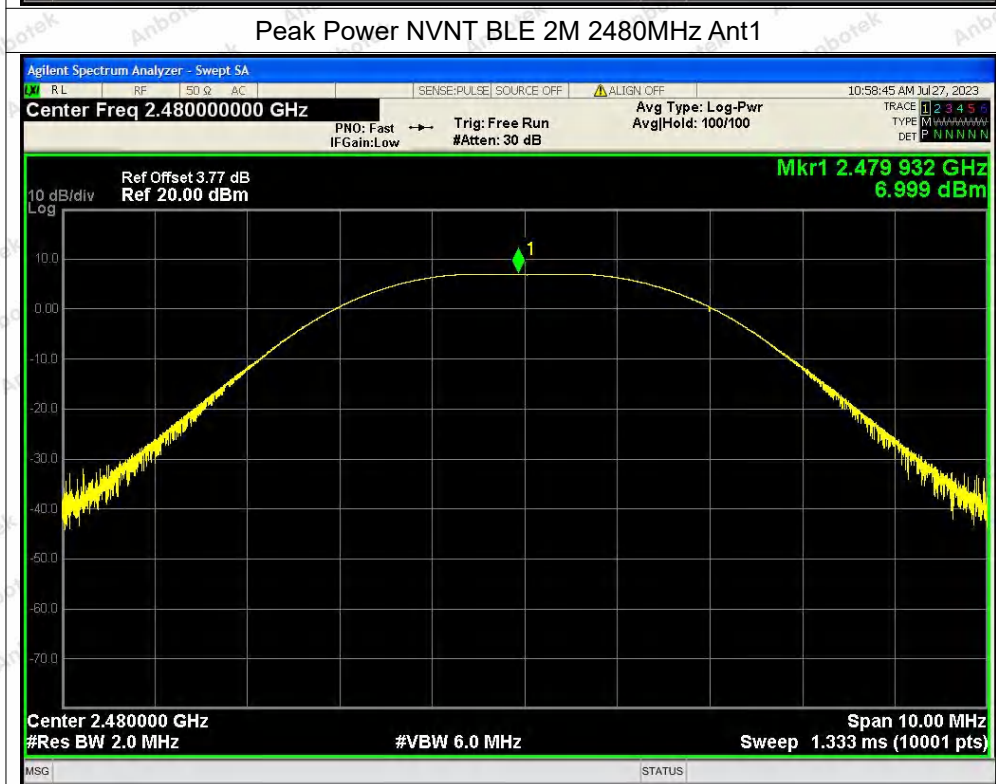
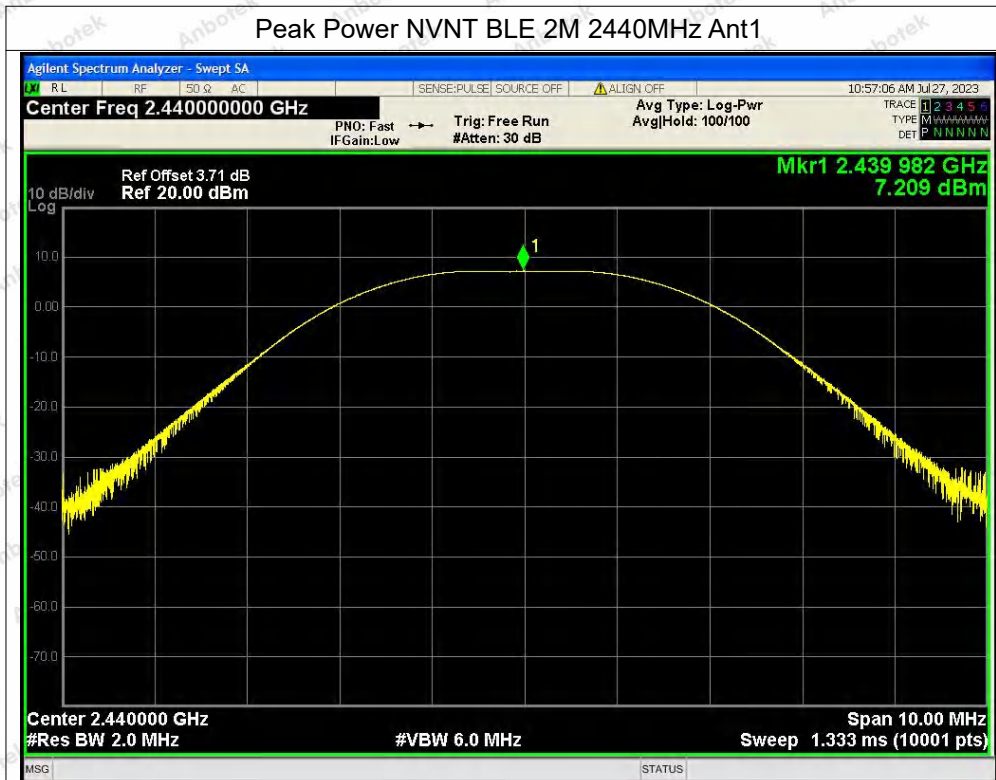


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## Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (mW)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	4.77	2.01	6.78	4.76	30	Pass
NVNT	BLE 1M	2440	Ant1	4.97	1.97	6.94	4.94	30	Pass
NVNT	BLE 1M	2480	Ant1	4.78	1.9	6.68	4.66	30	Pass
NVNT	BLE 2M	2402	Ant1	2.23	4.7	6.93	4.93	30	Pass
NVNT	BLE 2M	2440	Ant1	2.22	4.57	6.79	4.78	30	Pass
NVNT	BLE 2M	2480	Ant1	2.05	4.77	6.82	4.81	30	Pass

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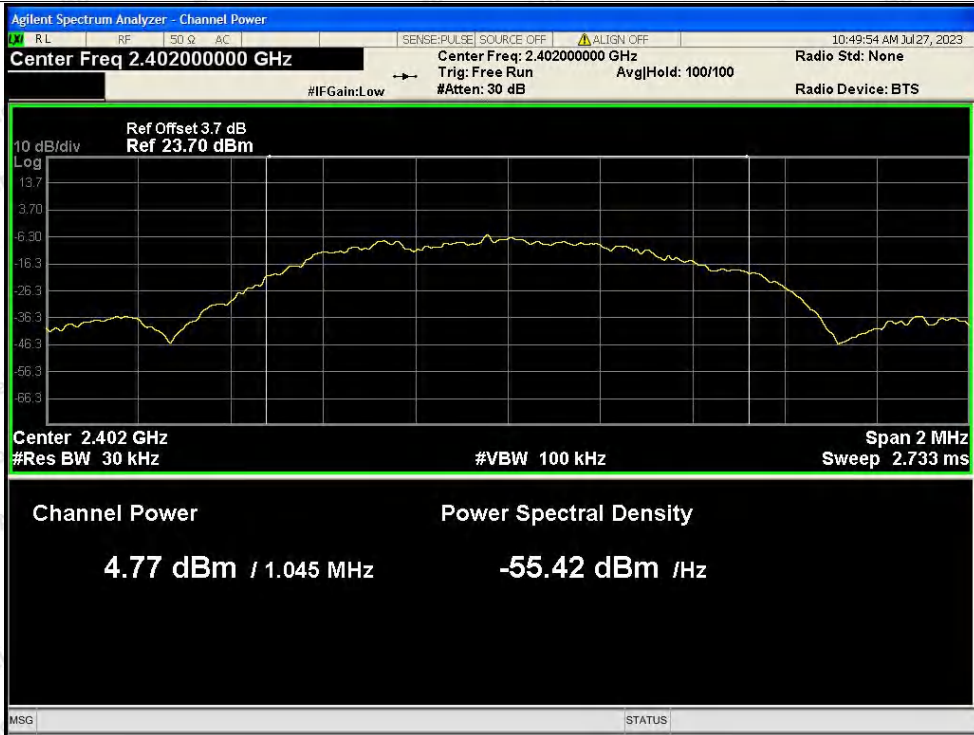


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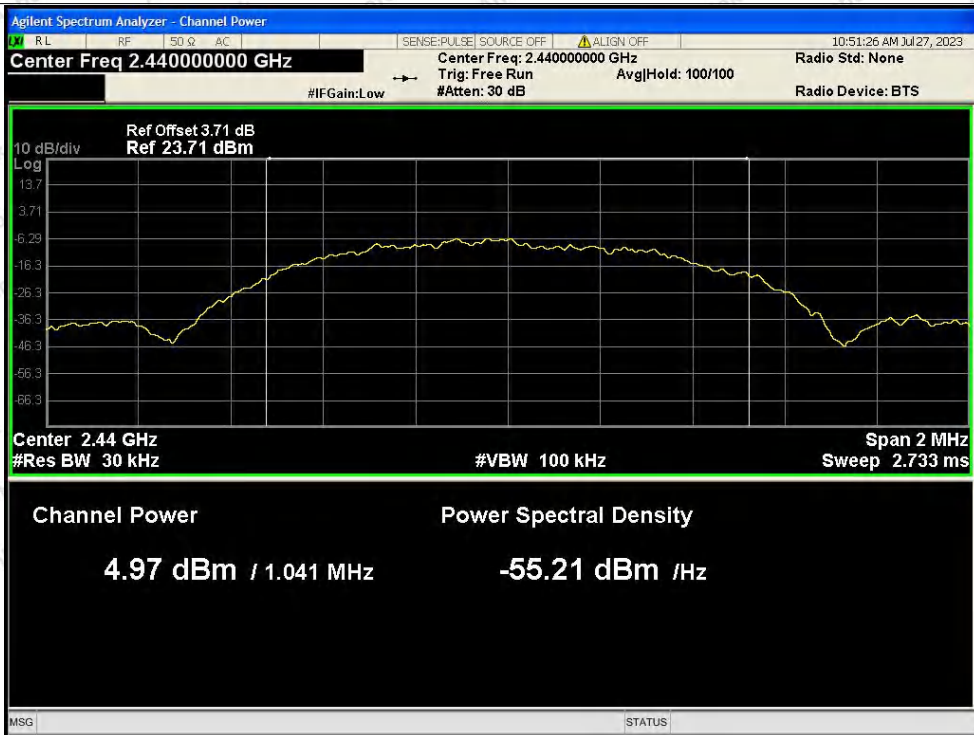


### Test Graphs

#### Average Power NVNT BLE 1M 2402MHz Ant1



#### Average Power NVNT BLE 1M 2440MHz Ant1



### Average Power NVNT BLE 1M 2480MHz Ant1



### Average Power NVNT BLE 2M 2402MHz Ant1



### Average Power NVNT BLE 2M 2440MHz Ant1



### Average Power NVNT BLE 2M 2480MHz Ant1



**6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.687	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.702	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.726	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.188	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.229	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.182	0.5	Pass

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### Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

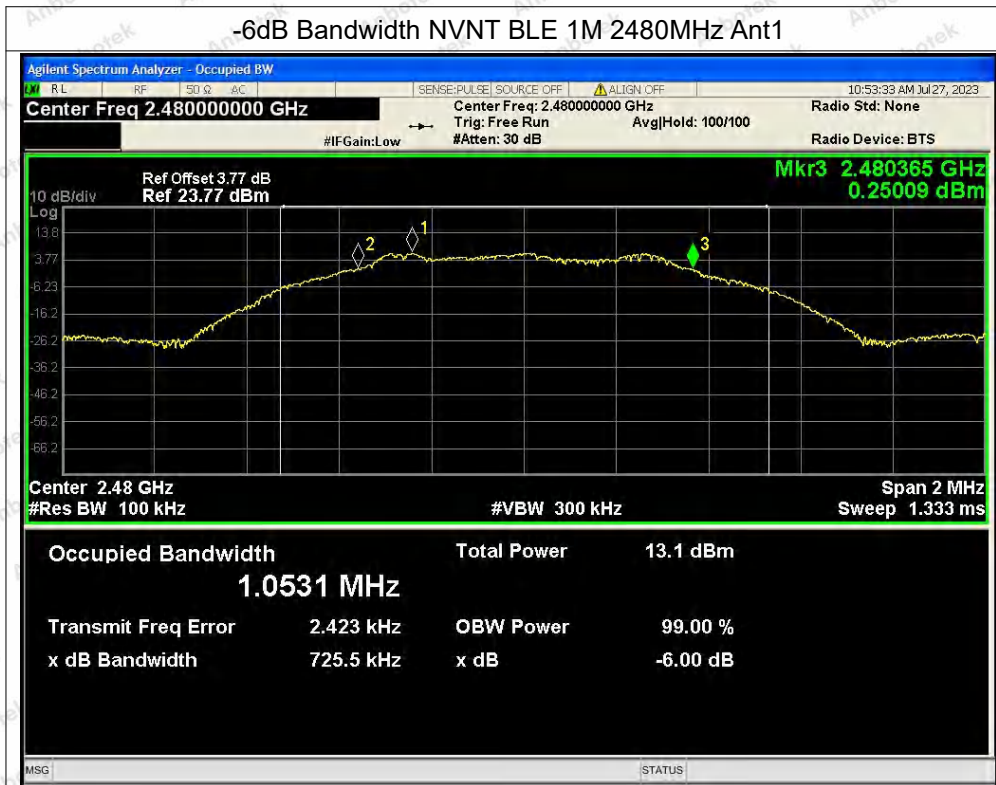


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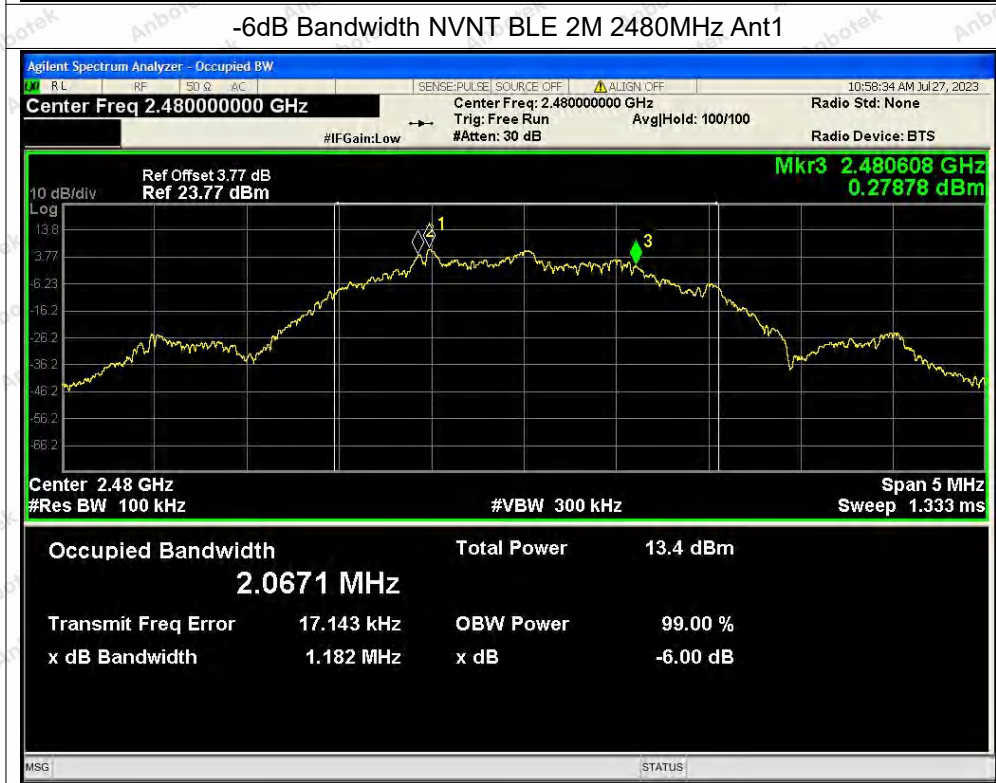
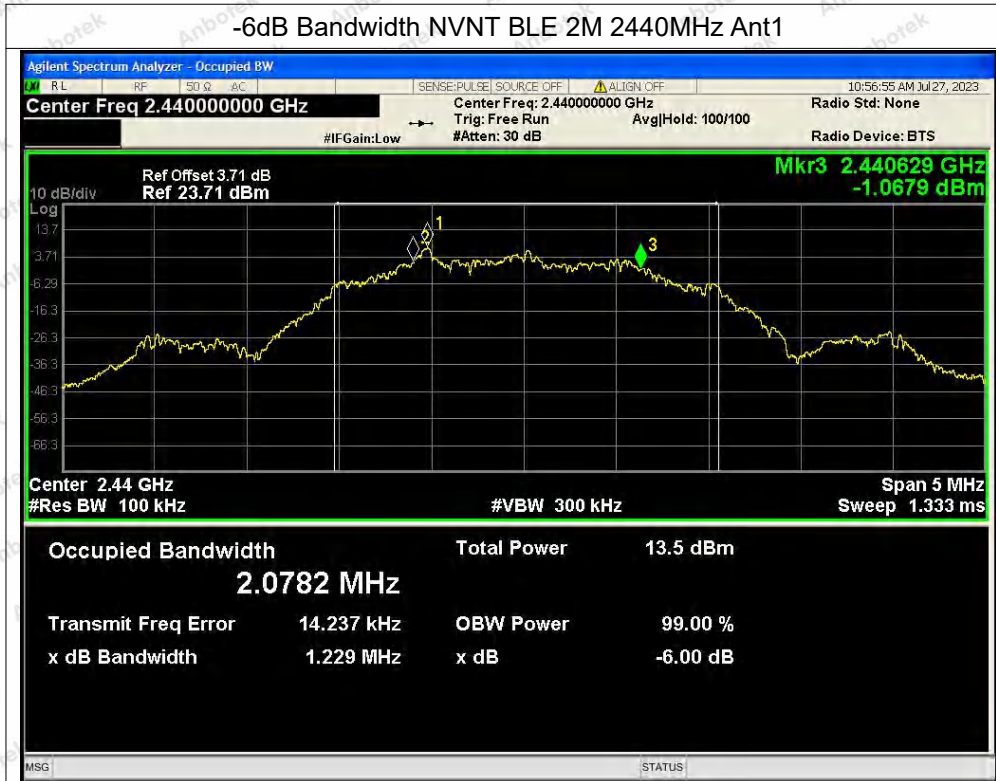


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**Conducted Spurious Emissions**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-45.32	-20	Pass
NVNT	BLE 1M	2440	Ant1	-44.86	-20	Pass
NVNT	BLE 1M	2480	Ant1	-45.29	-20	Pass
NVNT	BLE 2M	2402	Ant1	-45.44	-20	Pass
NVNT	BLE 2M	2440	Ant1	-45.8	-20	Pass
NVNT	BLE 2M	2480	Ant1	-44.57	-20	Pass

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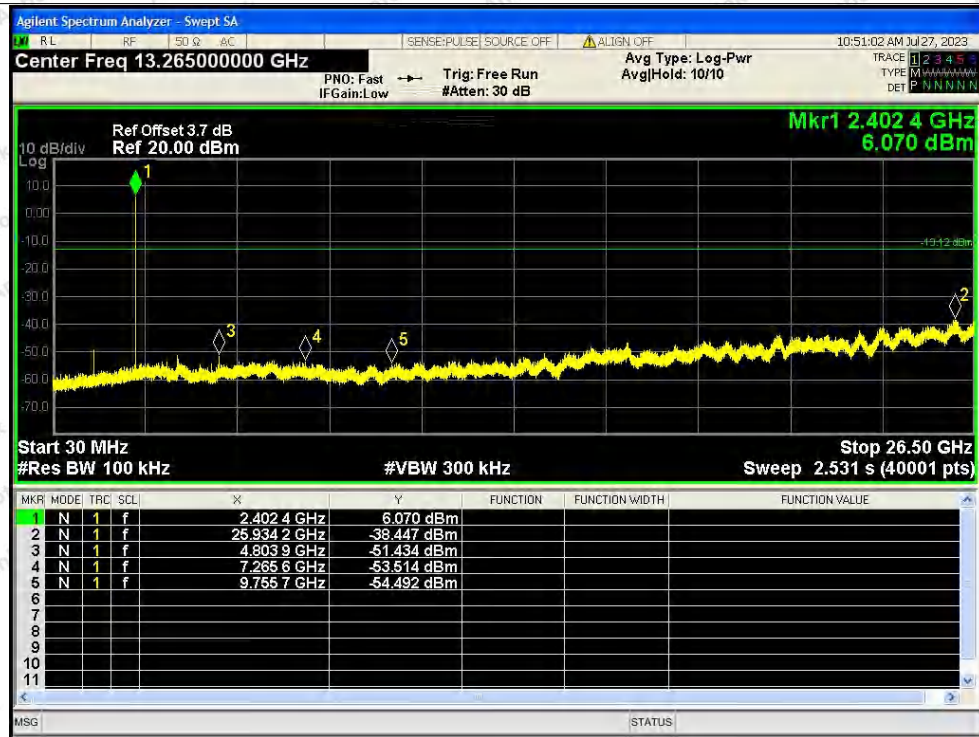


### Test Graphs

#### Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



#### Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

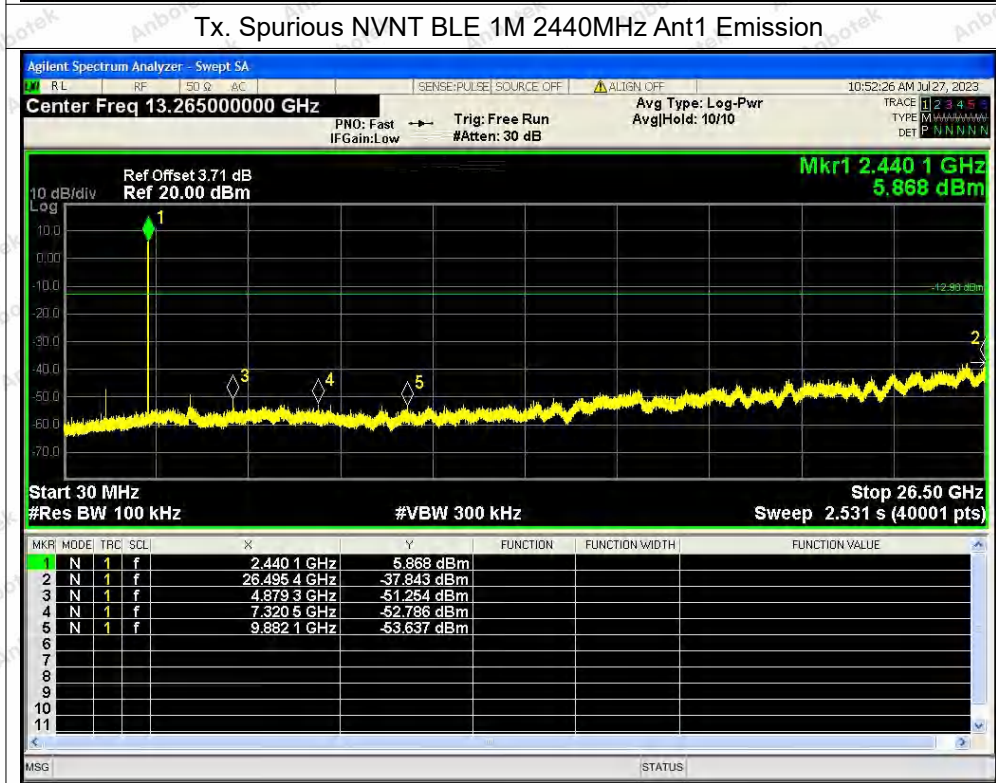
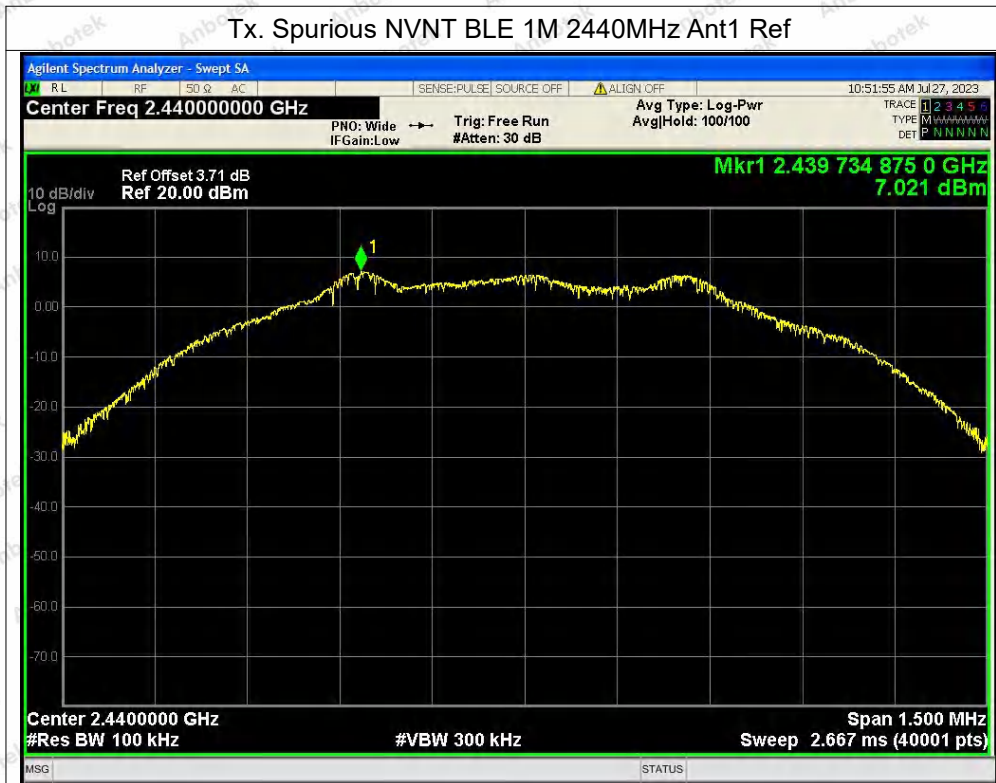


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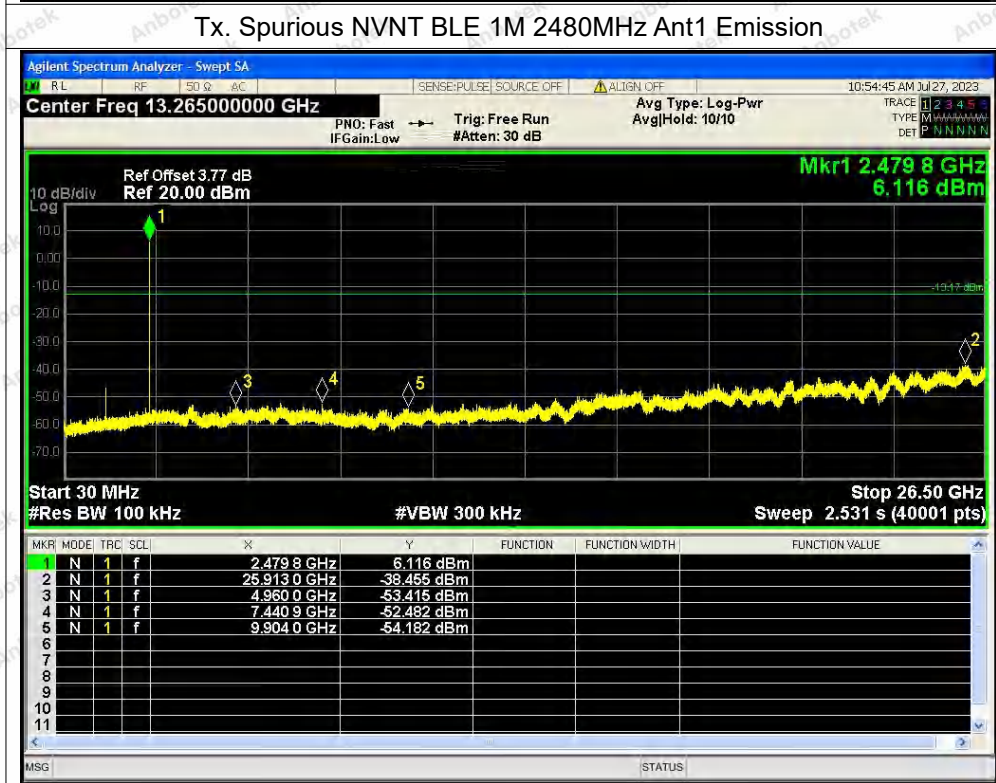
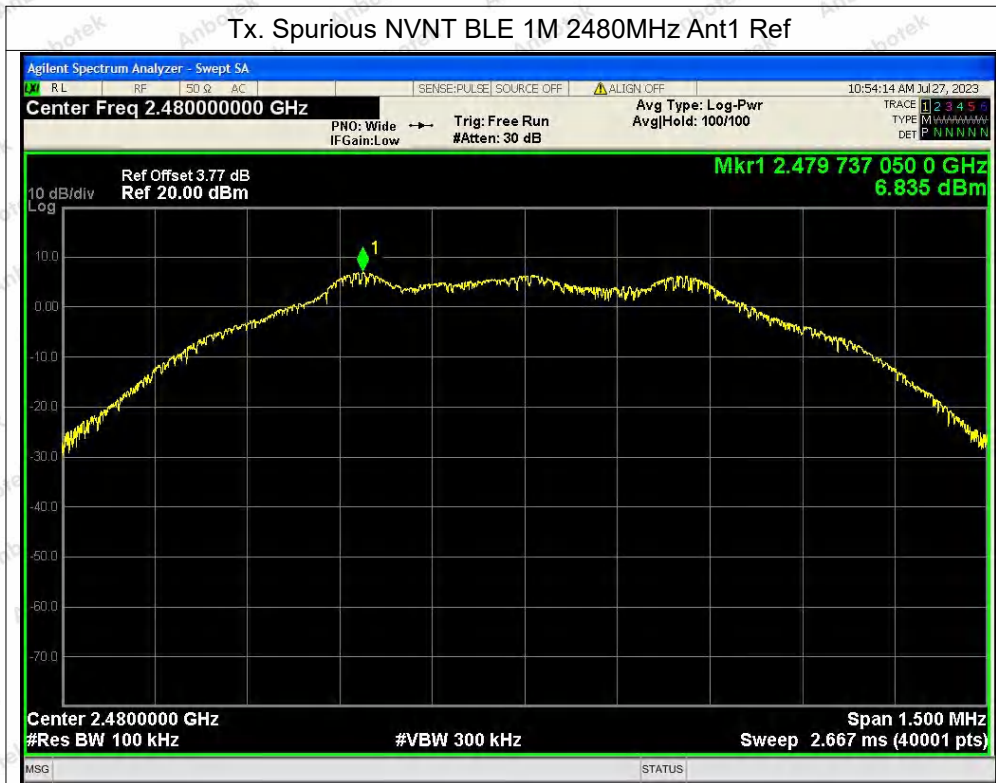


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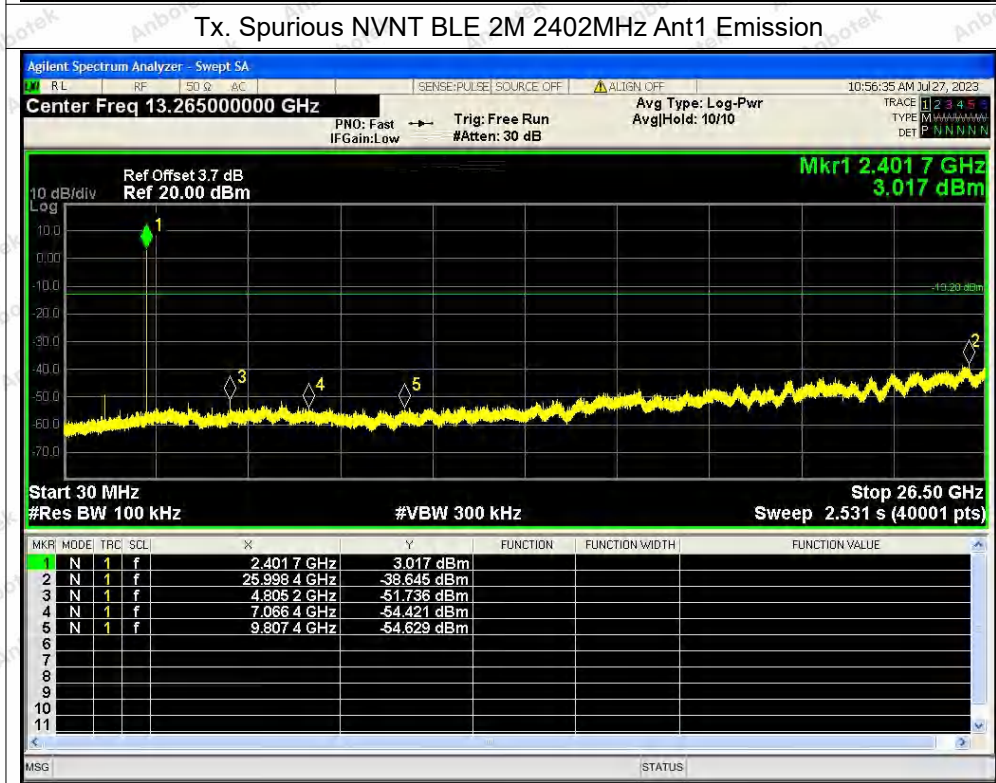


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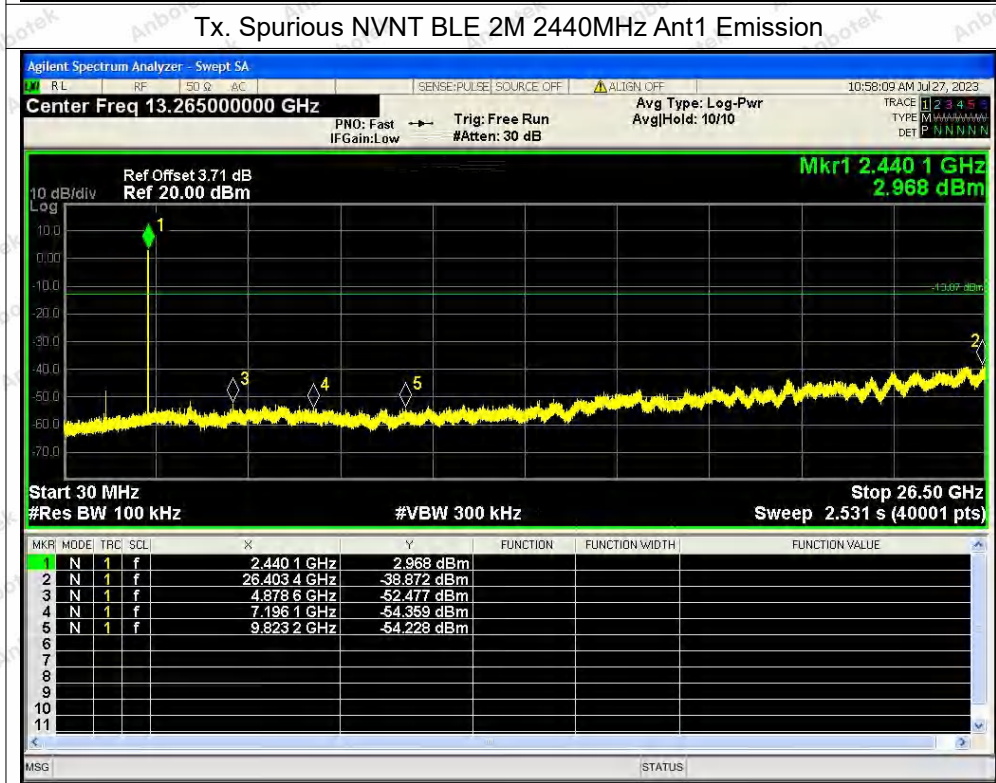


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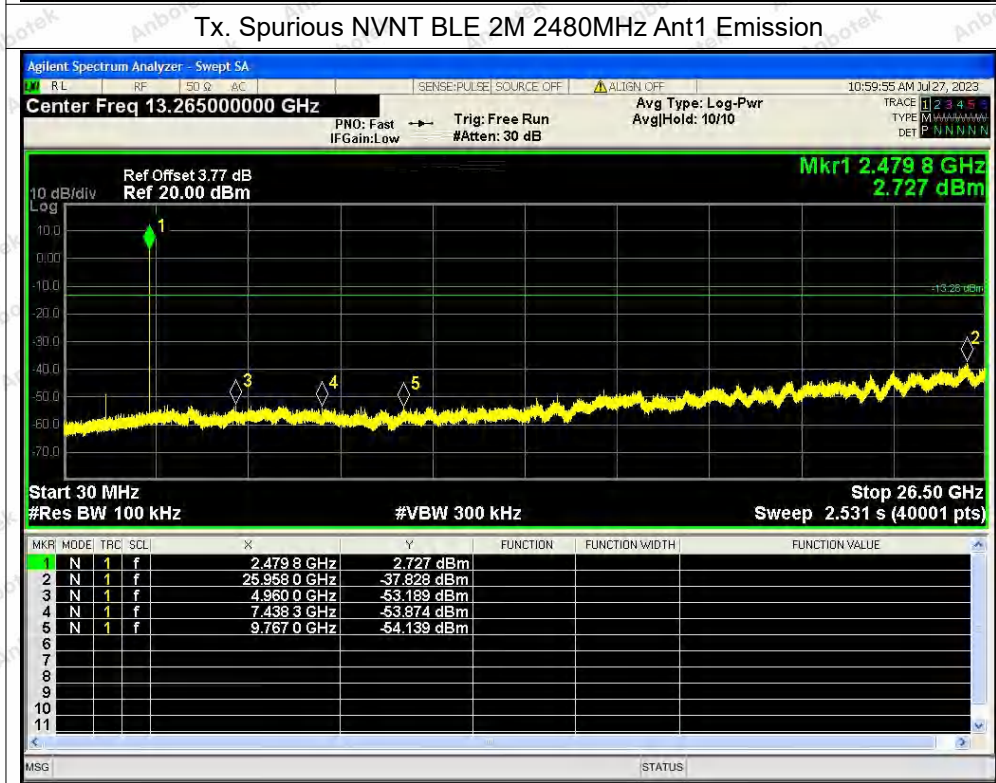
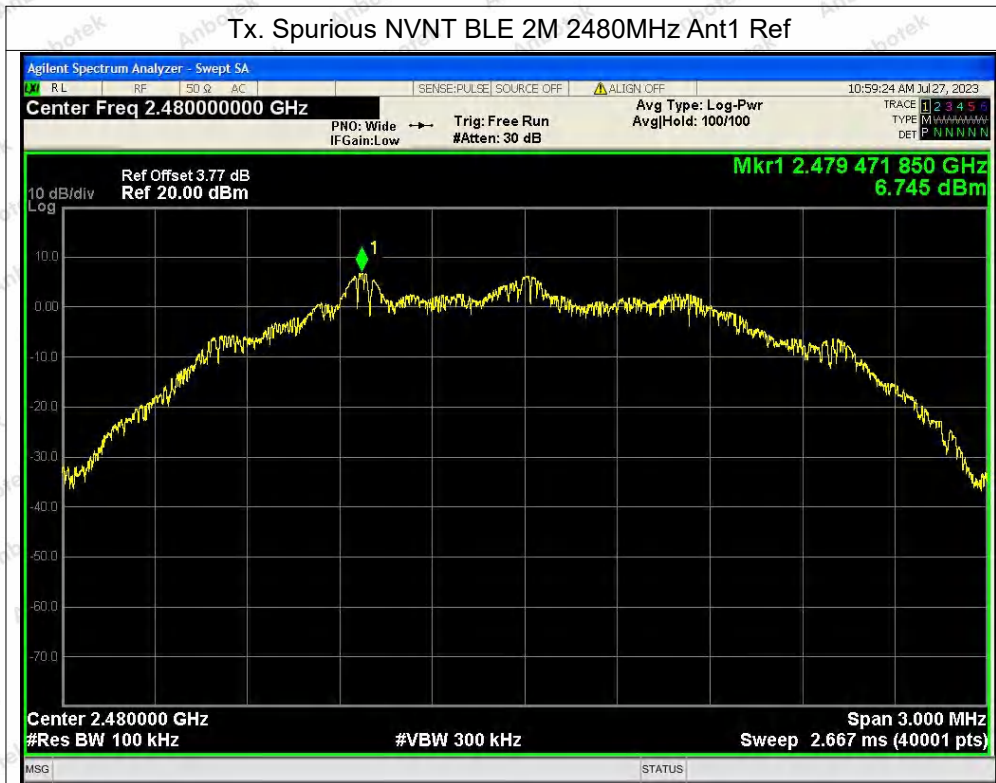


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**Band Edge**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.82	-20	Pass
NVNT	BLE 1M	2480	Ant1	-60.36	-20	Pass
NVNT	BLE 2M	2402	Ant1	-31.63	-20	Pass
NVNT	BLE 2M	2480	Ant1	-57.93	-20	Pass

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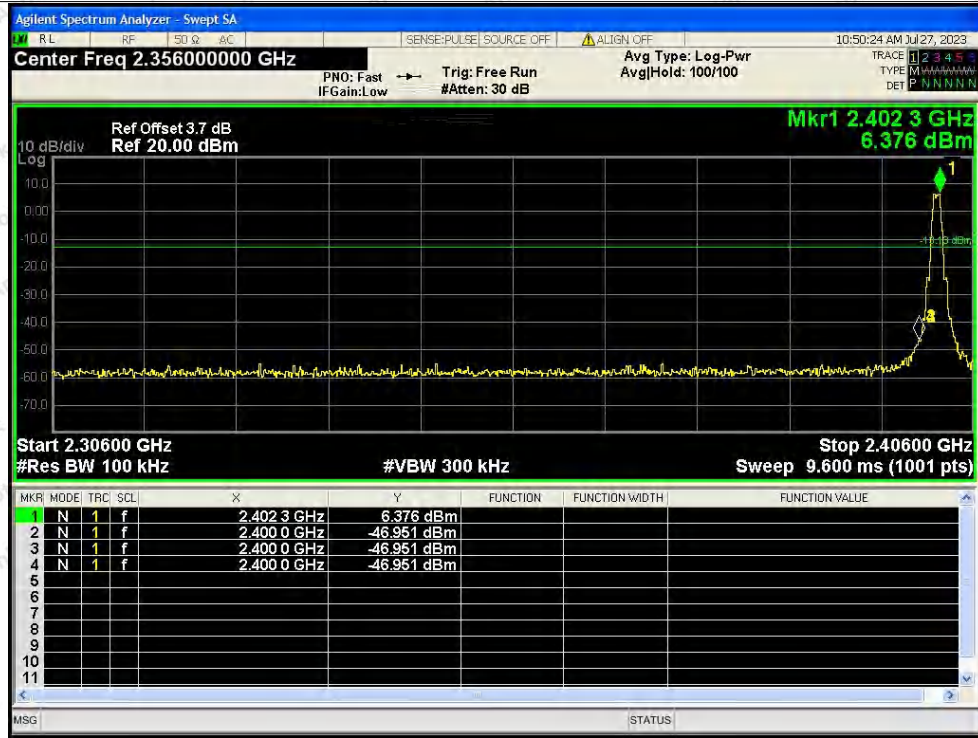


### Test Graphs

#### Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



#### Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

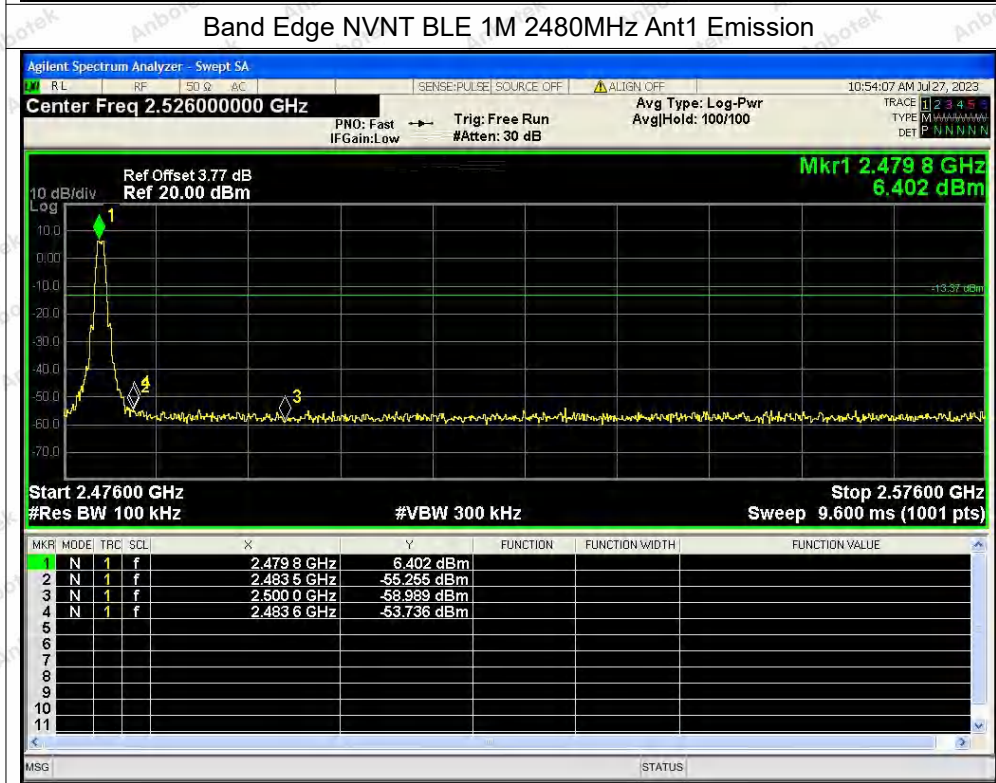


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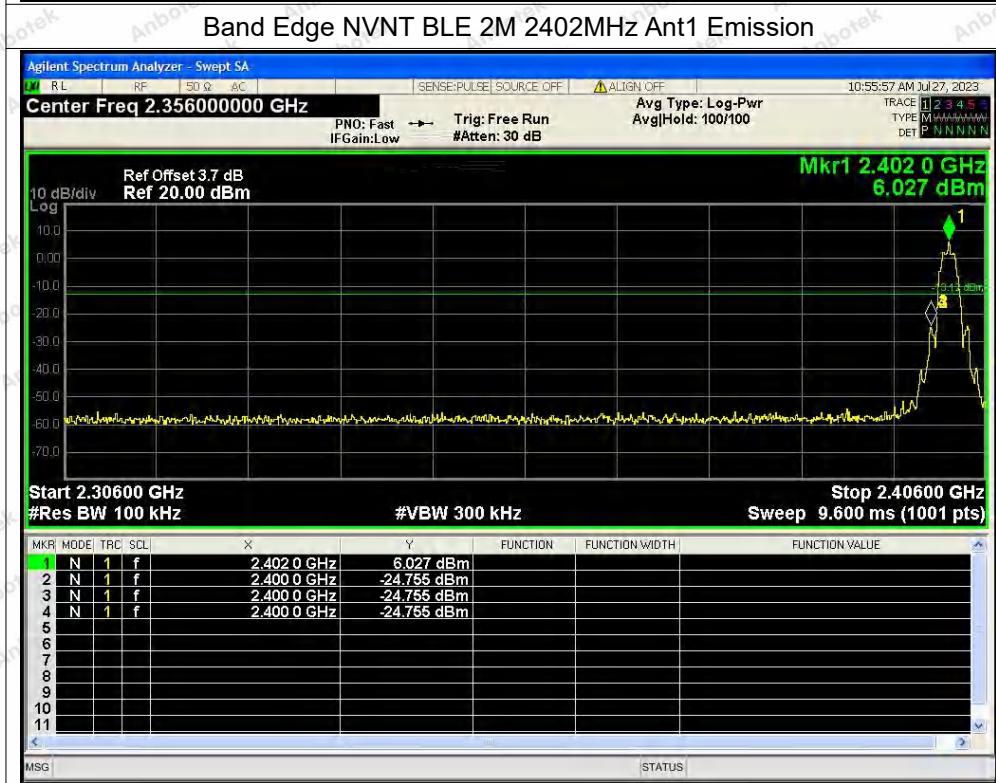


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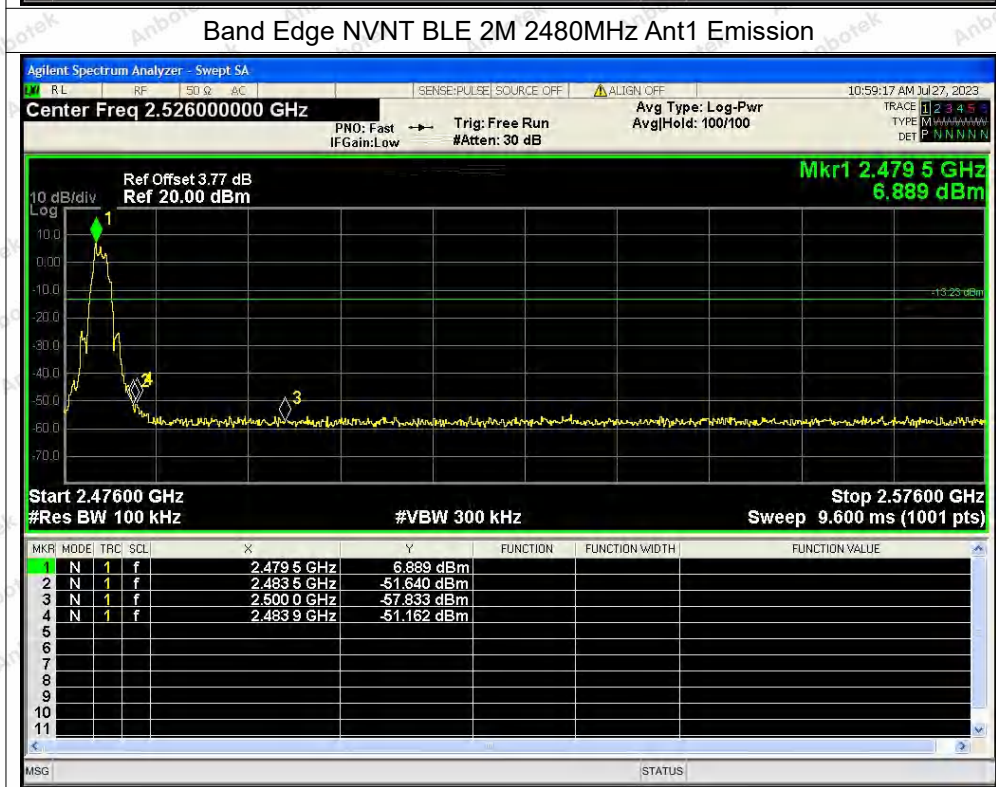


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## Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-8.32	0	-8.32	8	Pass
NVNT	BLE 1M	2440	Ant1	-8.28	0	-8.28	8	Pass
NVNT	BLE 1M	2480	Ant1	-8.37	0	-8.37	8	Pass
NVNT	BLE 2M	2402	Ant1	-12.23	0	-12.23	8	Pass
NVNT	BLE 2M	2440	Ant1	-11.92	0	-11.92	8	Pass
NVNT	BLE 2M	2480	Ant1	-12.17	0	-12.17	8	Pass

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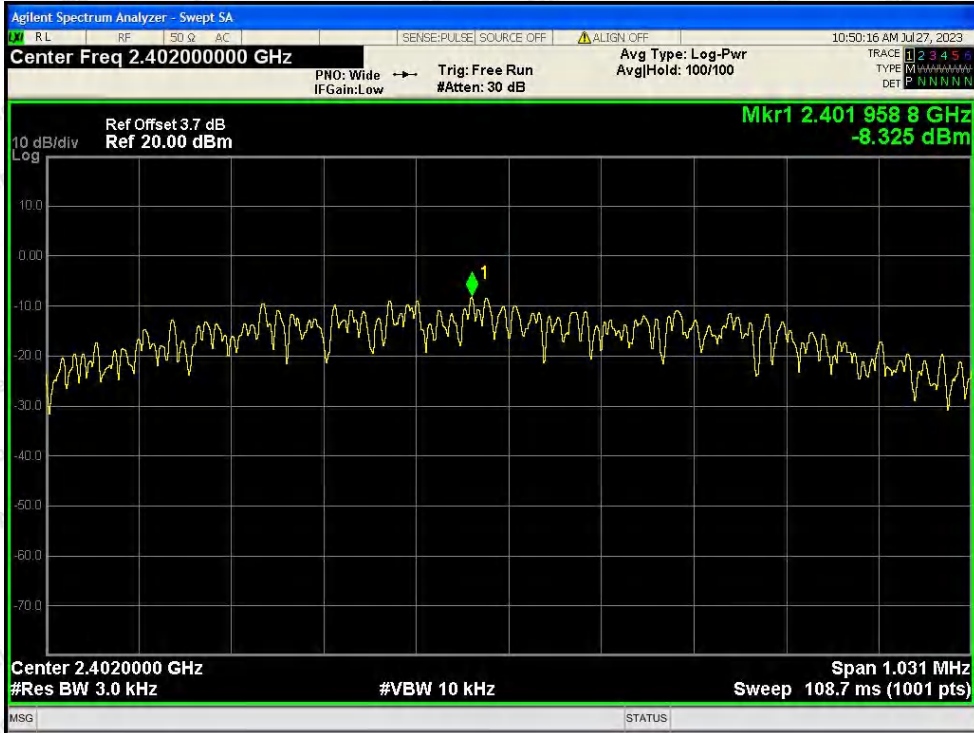


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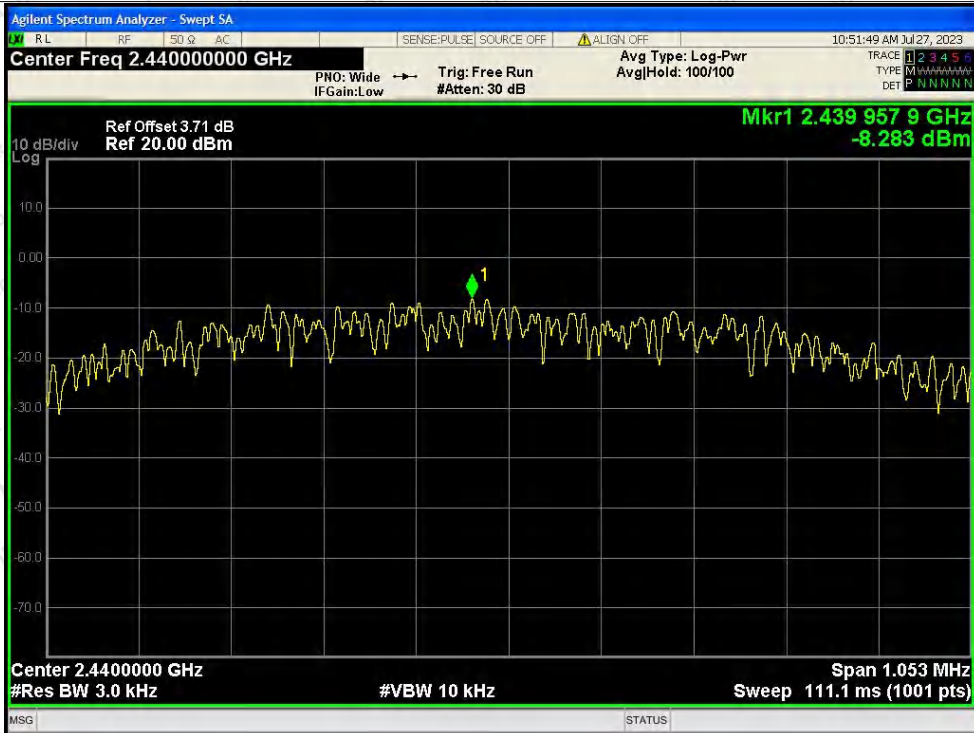


### Test Graphs

#### PSD NVNT BLE 1M 2402MHz Ant1



#### PSD NVNT BLE 1M 2440MHz Ant1

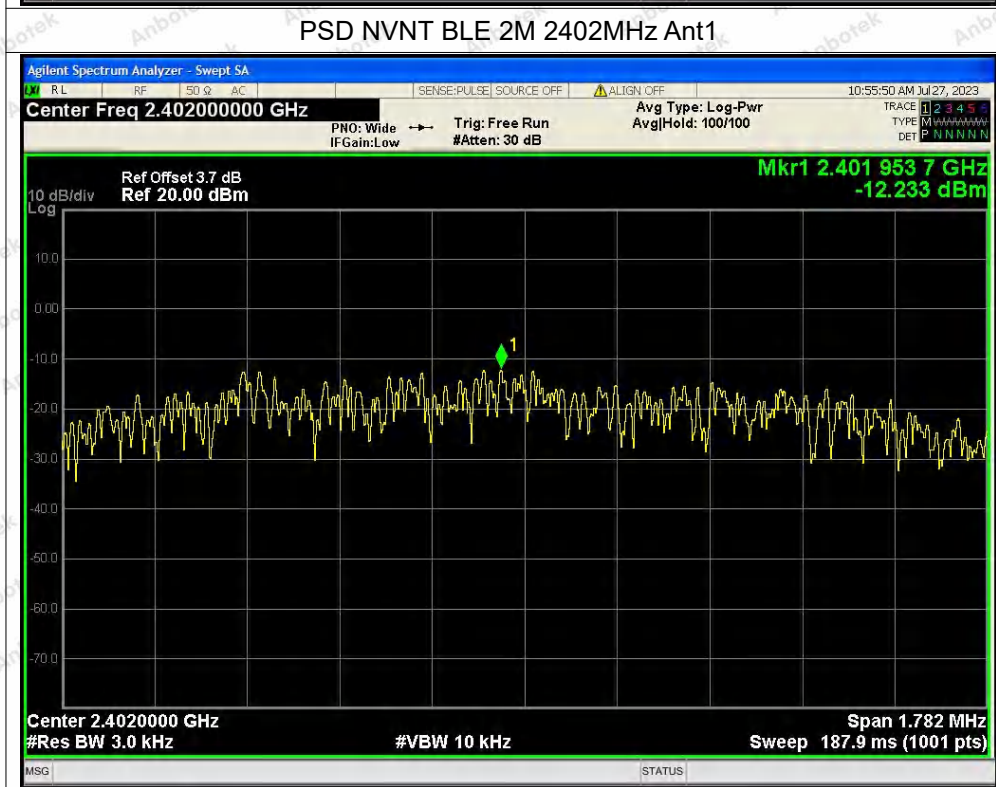
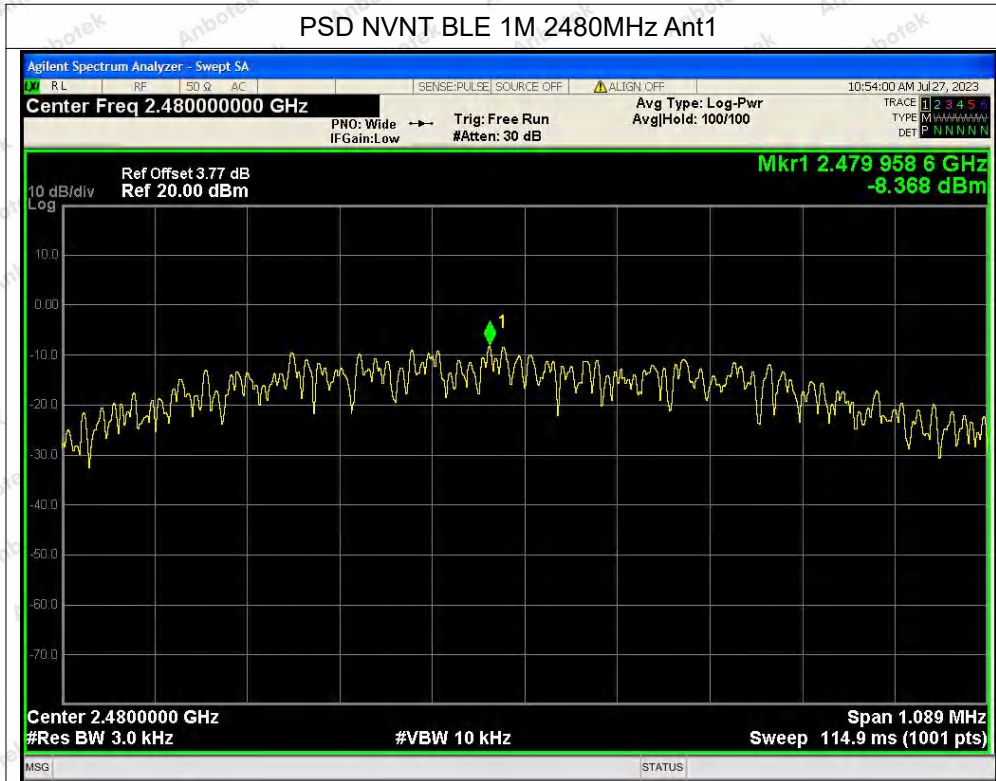


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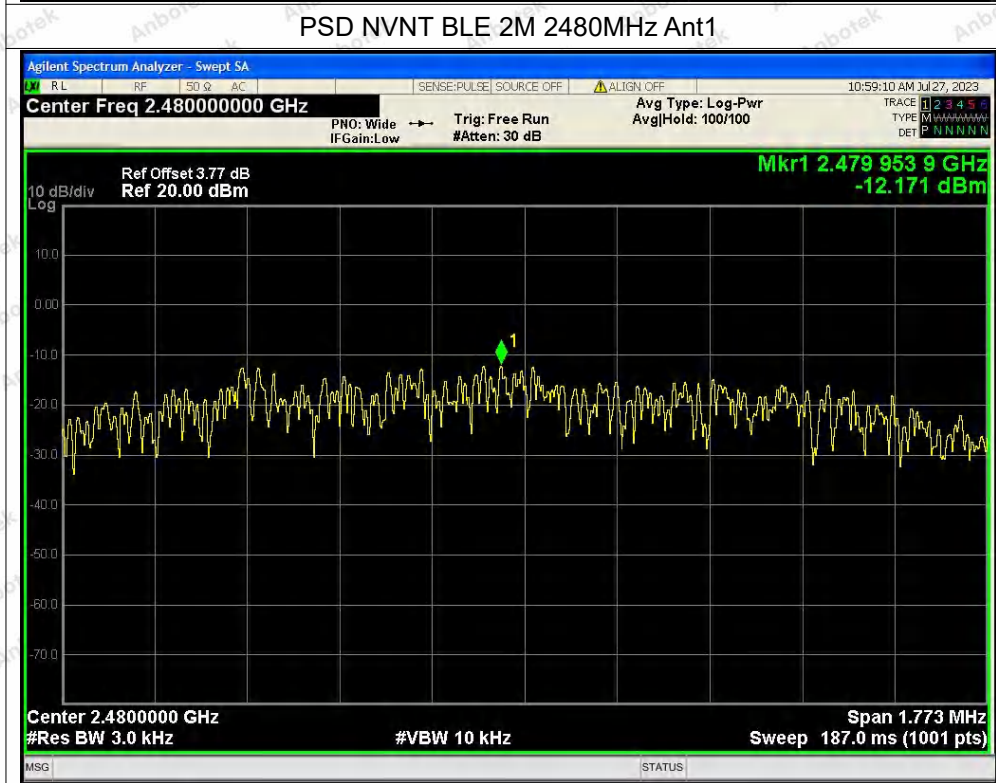
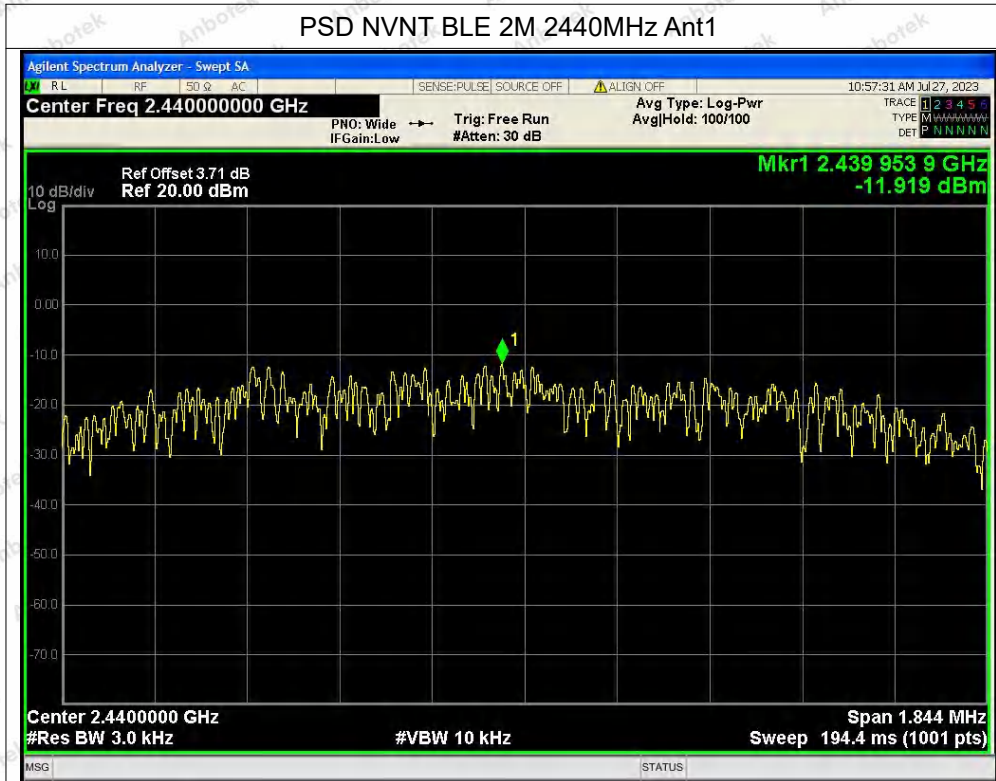


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## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

Hotline 400-003-0500  
www.anbotek.com.cn

