

## Appendix Test Data

Report No.:	182518C400017101	Test Sample No.:	1-2-2
Start Test Date:	2024.05.25	Finish Test Date:	2024.05.28
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	48%
Pressure:	101kPa		

## Appendix A: 6dB Bandwidth

## Test Result

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	BLE_1M	2402	803.07	500	Pass
NVNT	ANT1	BLE_1M	2440	704.26	500	Pass
NVNT	ANT1	BLE_1M	2480	707.07	500	Pass
NVNT	ANT1	BLE_2M	2402	734.21	500	Pass
NVNT	ANT1	BLE_2M	2440	952.83	500	Pass
NVNT	ANT1	BLE_2M	2480	800.00	500	Pass

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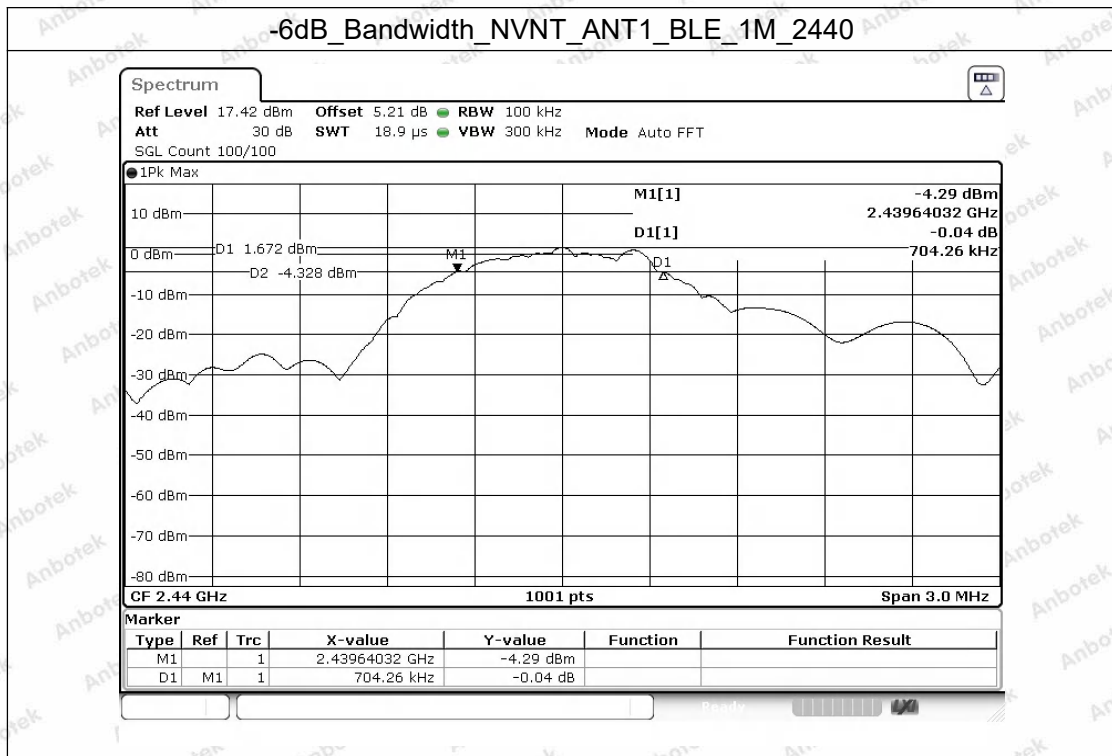
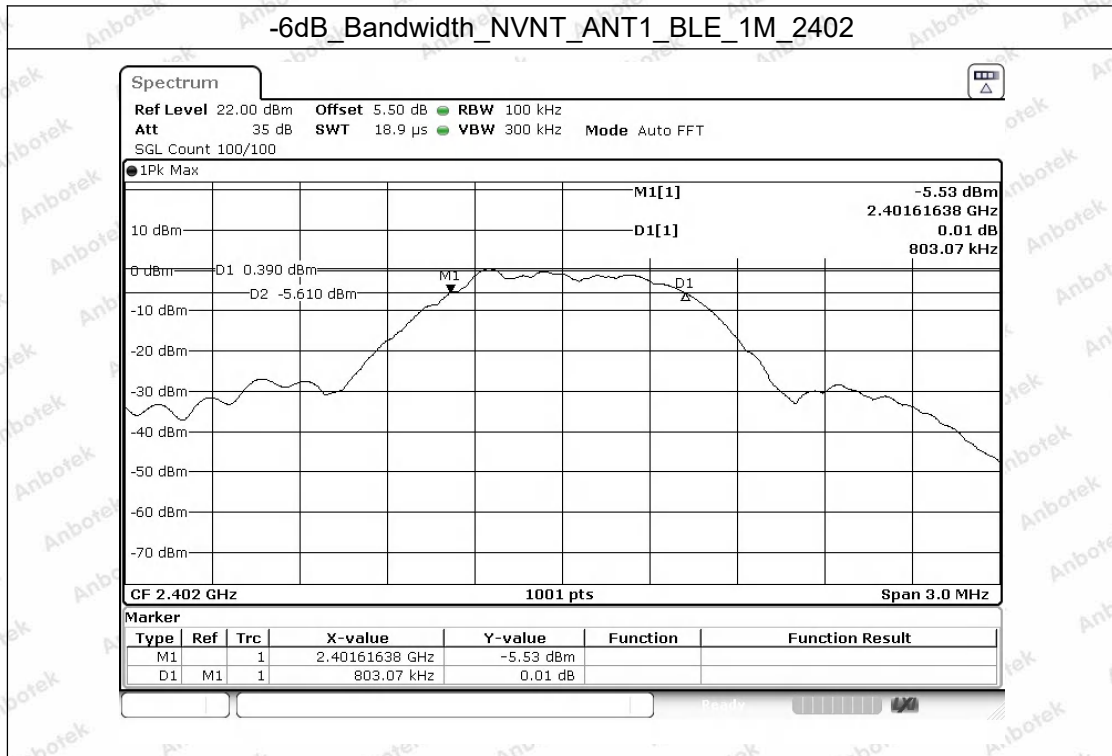
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

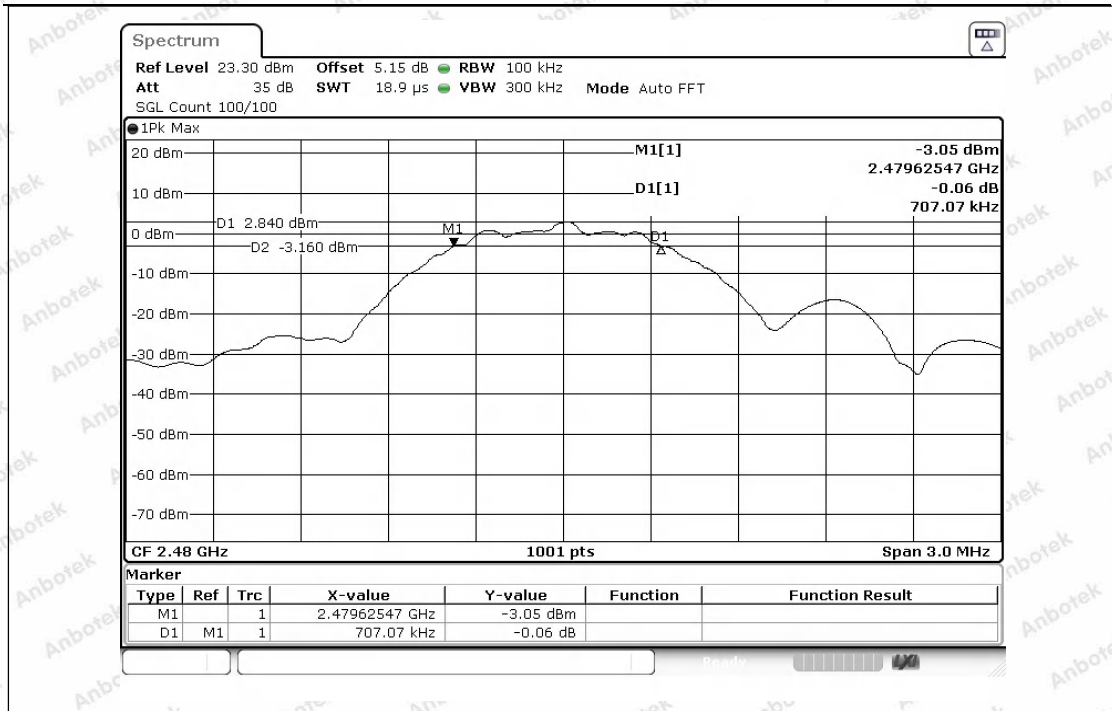


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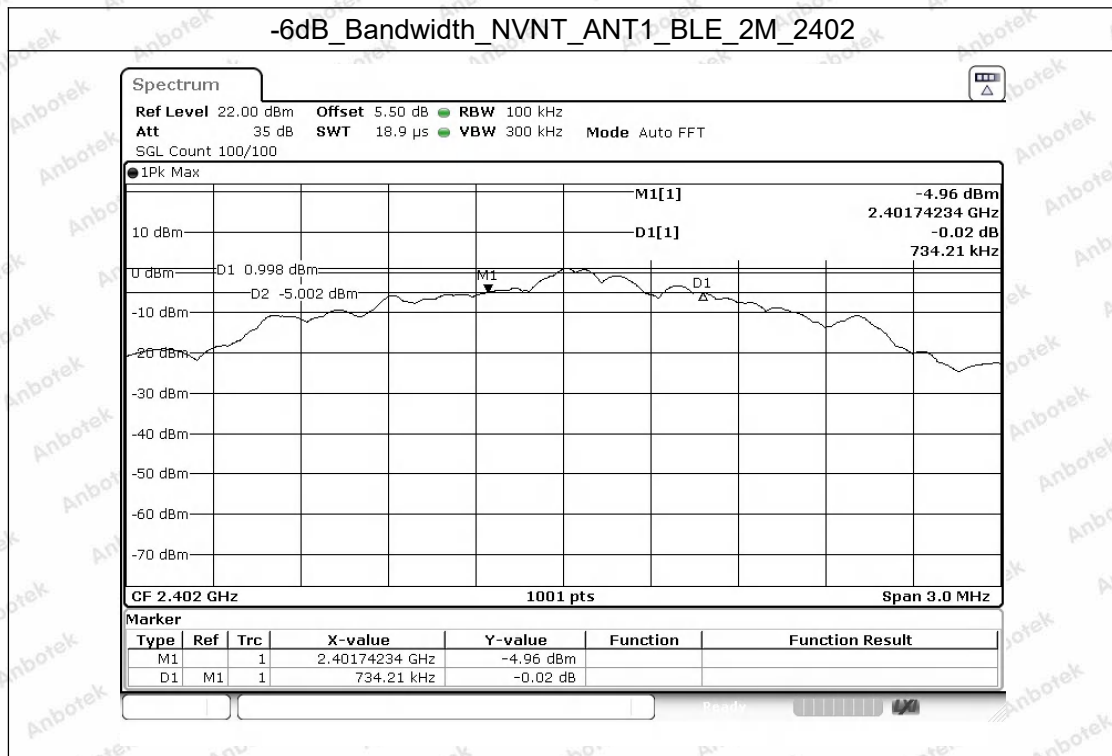


## Test Graphs



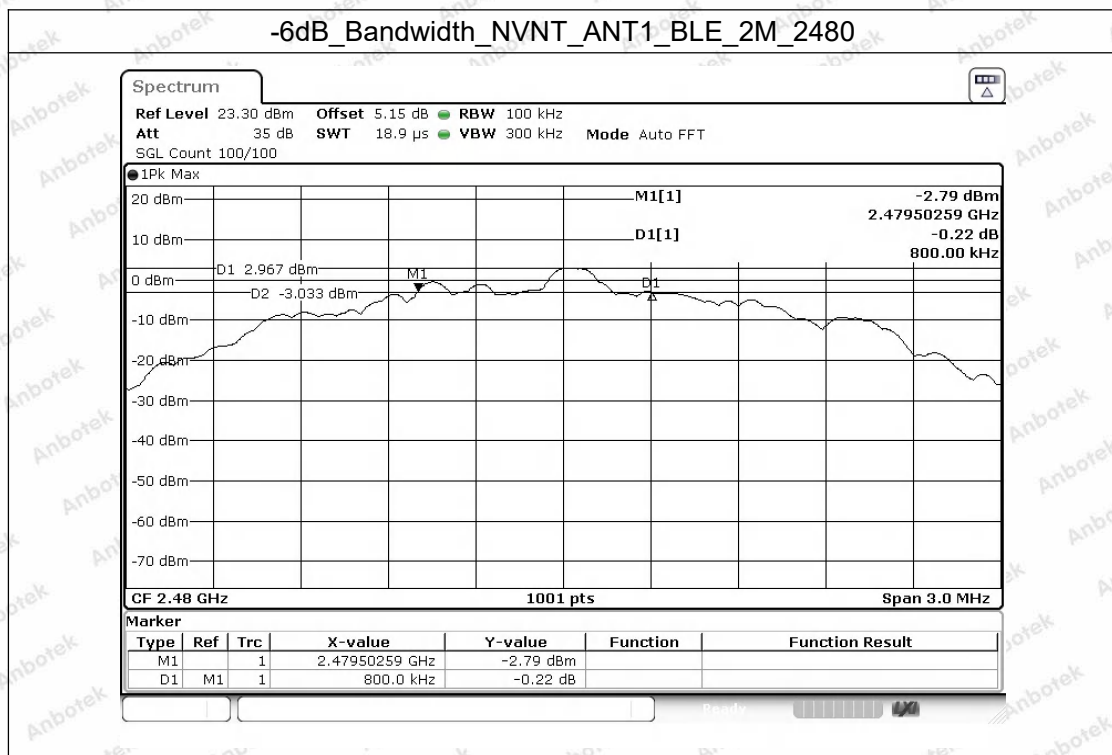
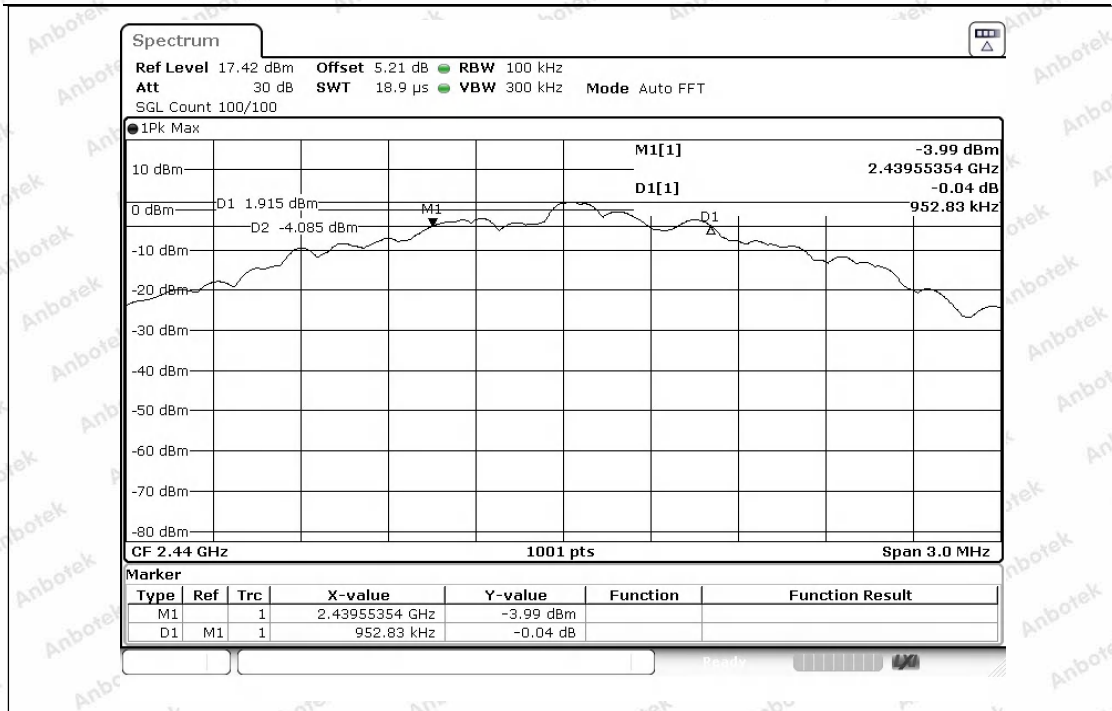


**-6dB\_Bandwidth\_NVNT\_ANT1\_BLE\_2M\_2402**



**-6dB\_Bandwidth\_NVNT\_ANT1\_BLE\_2M\_2440**





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## Appendix B: 99% Occupied Bandwidth

### Test Result

Condition	Antenna	Rate	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	BLE_1M	2402	1.786
NVNT	ANT1	BLE_1M	2440	1.430
NVNT	ANT1	BLE_1M	2480	1.163
NVNT	ANT1	BLE_2M	2402	2.206
NVNT	ANT1	BLE_2M	2440	2.152
NVNT	ANT1	BLE_2M	2480	2.260

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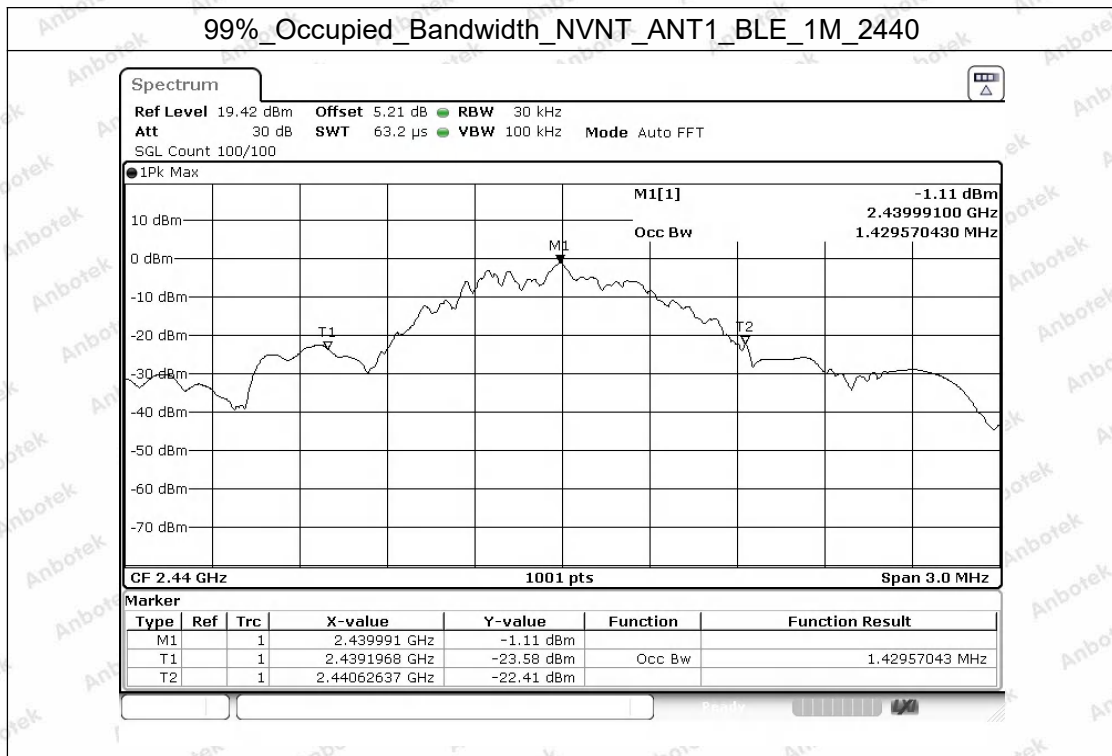
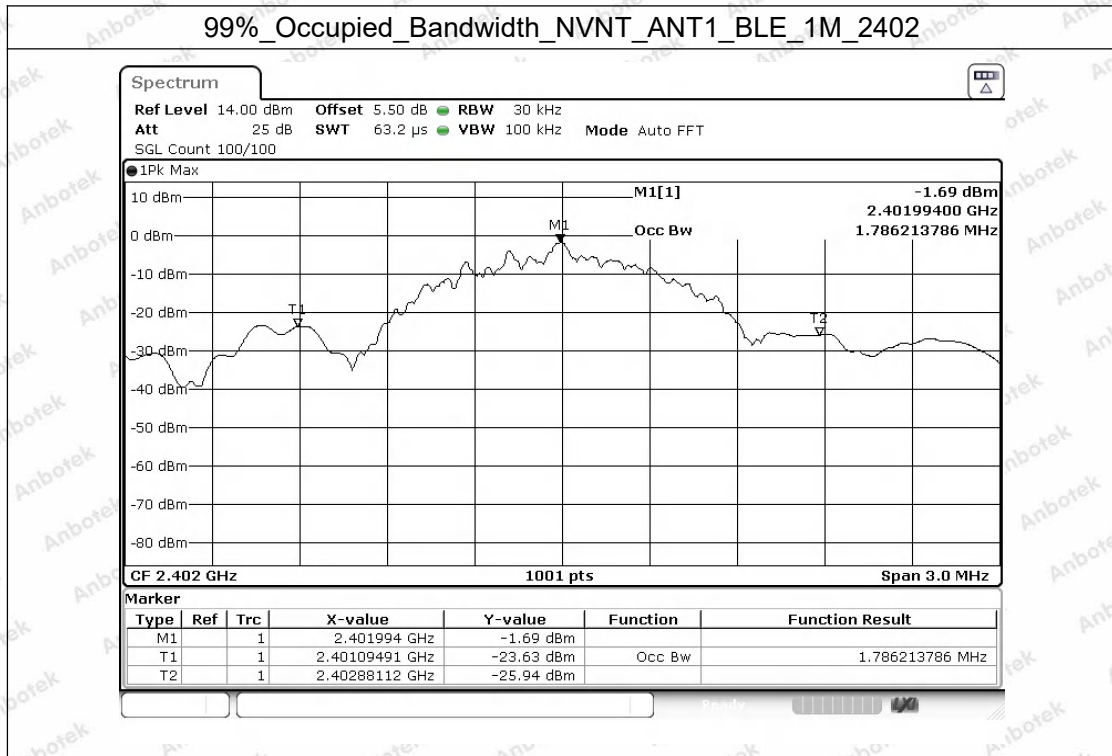
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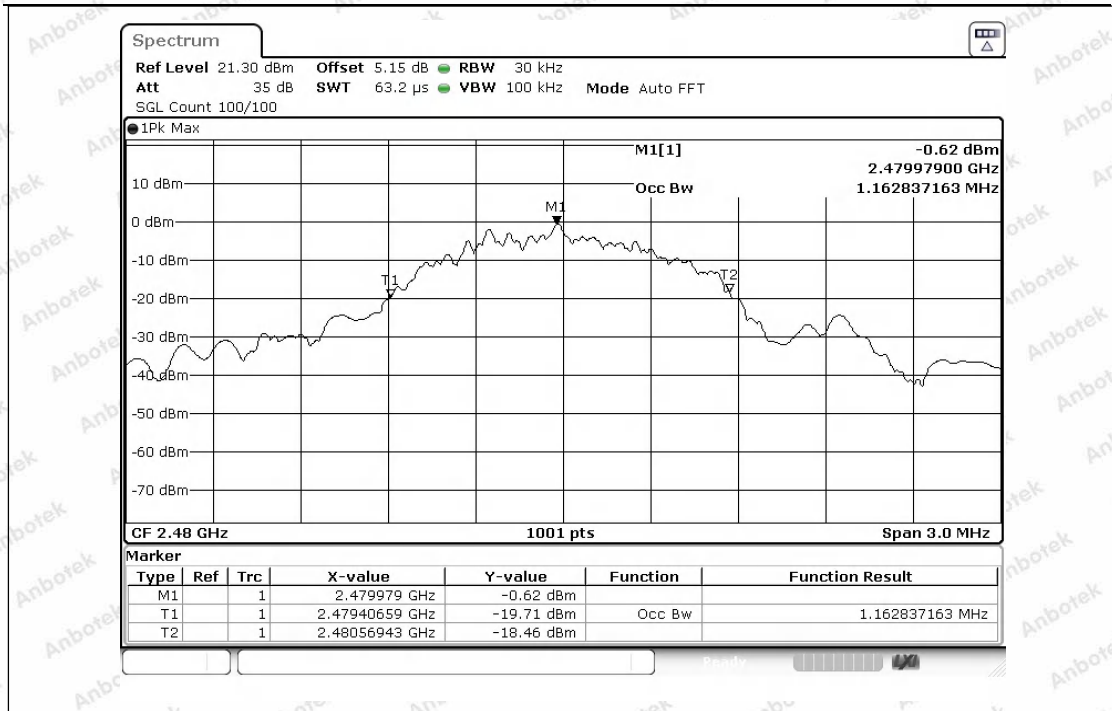


## Test Graphs

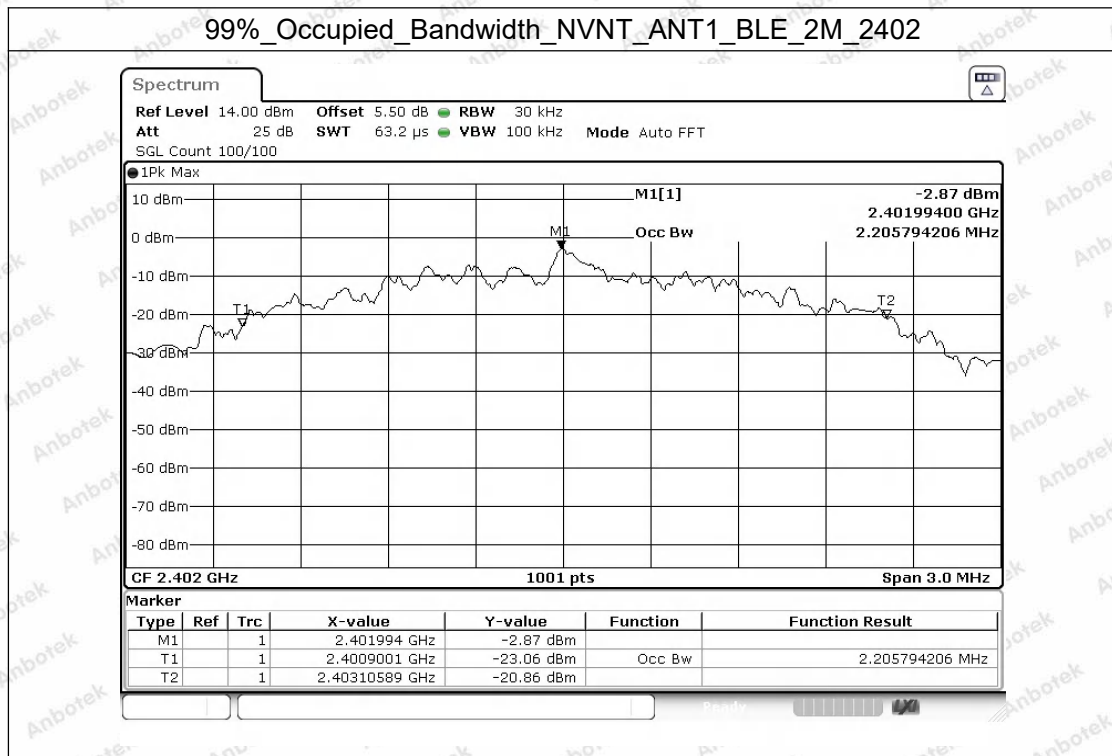


**99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_BLE\_1M\_2480**



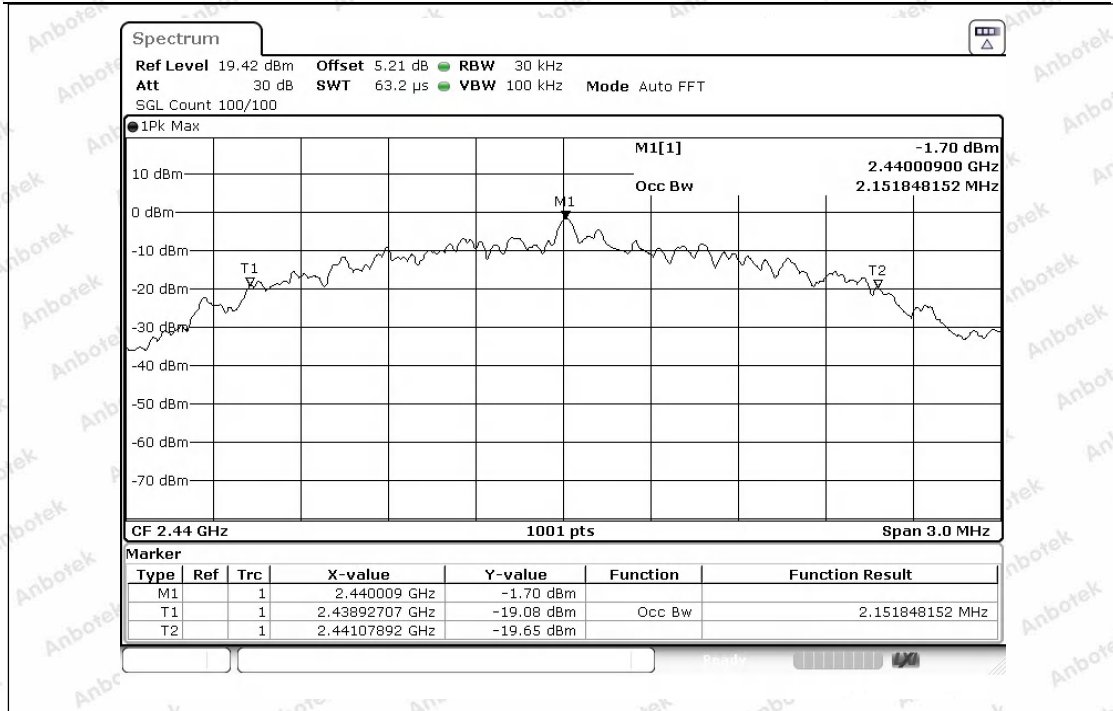


99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_BLE\_2M\_2402

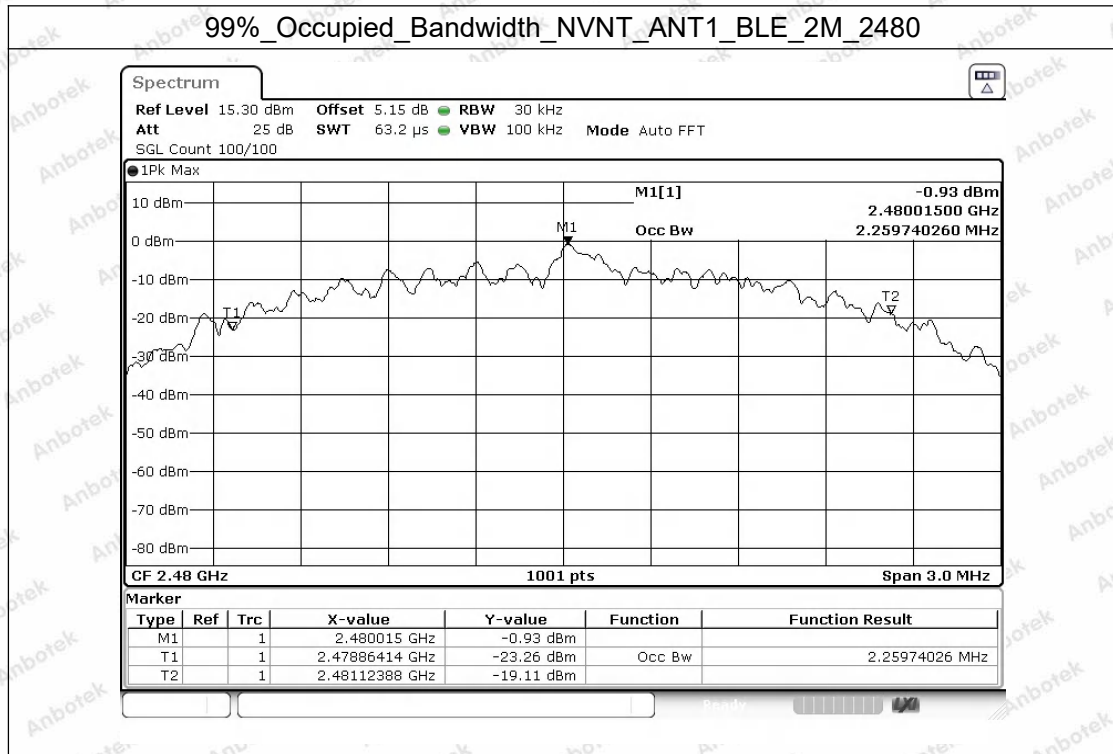


99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_BLE\_2M\_2440





### 99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_BLE\_2M\_2480





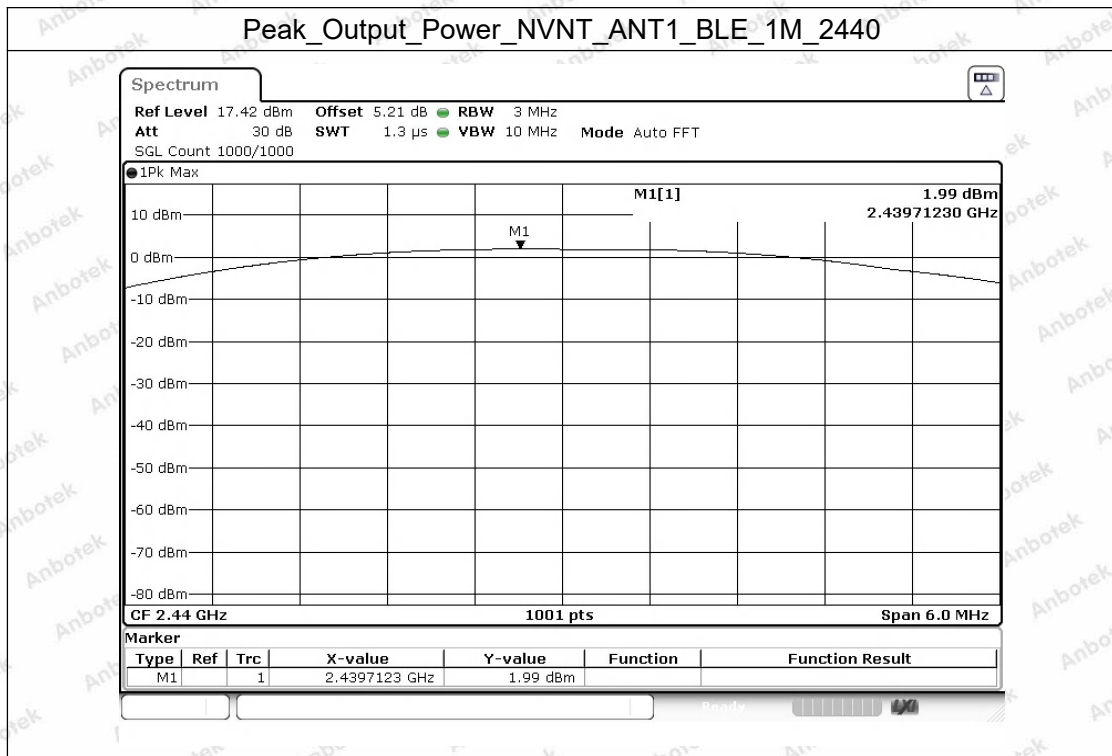
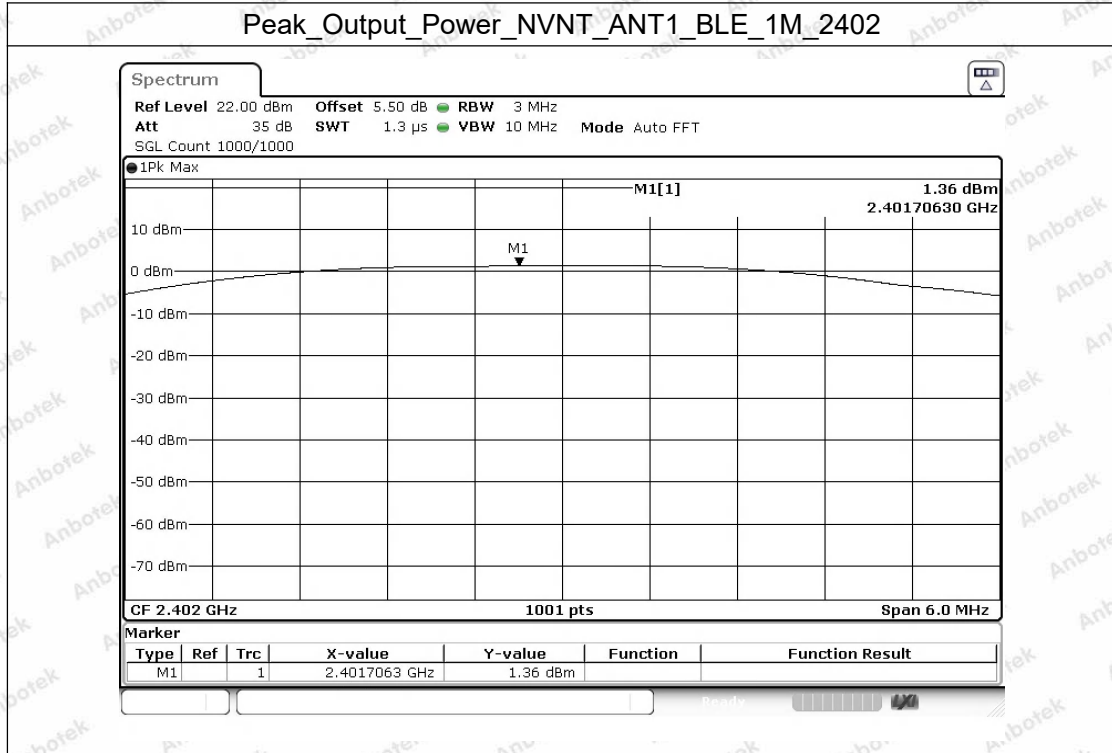
## Appendix C: Maximum conducted output power

### Test Result Peak

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	BLE_1M	2402	1.36	1.37	1000	Pass
NVNT	ANT1	BLE_1M	2440	1.99	1.58	1000	Pass
NVNT	ANT1	BLE_1M	2480	3.00	2.00	1000	Pass
NVNT	ANT1	BLE_2M	2402	1.35	1.36	1000	Pass
NVNT	ANT1	BLE_2M	2440	2.18	1.65	1000	Pass
NVNT	ANT1	BLE_2M	2480	<b>3.17</b>	2.07	1000	Pass

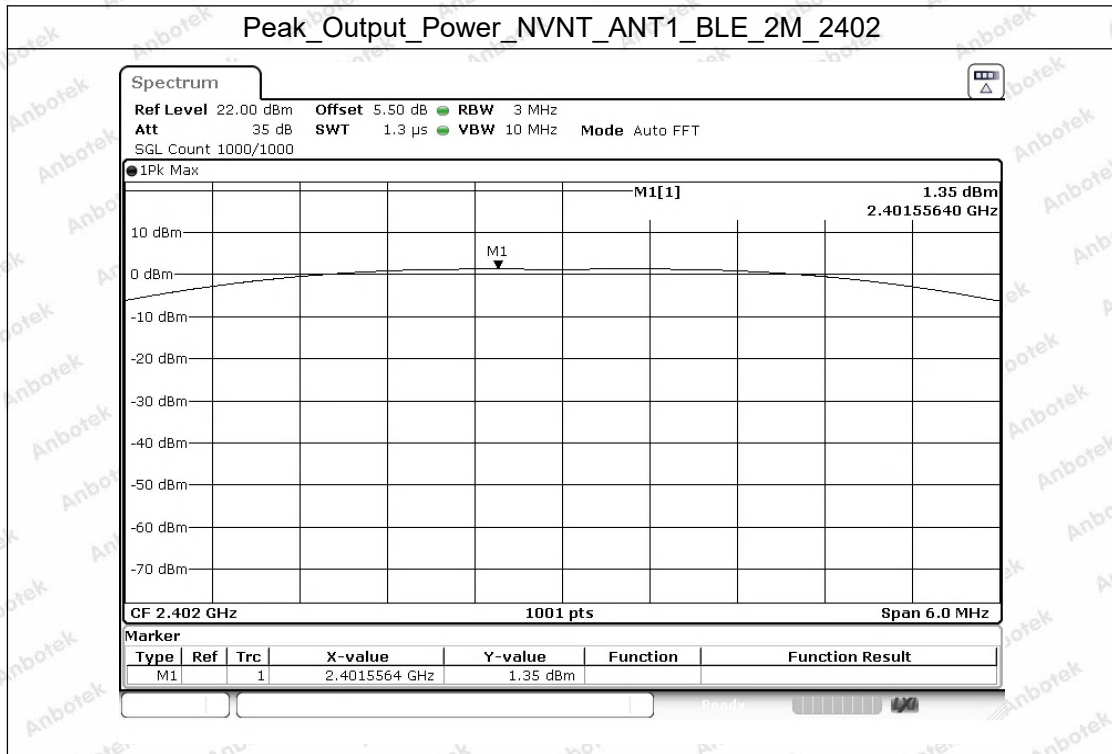
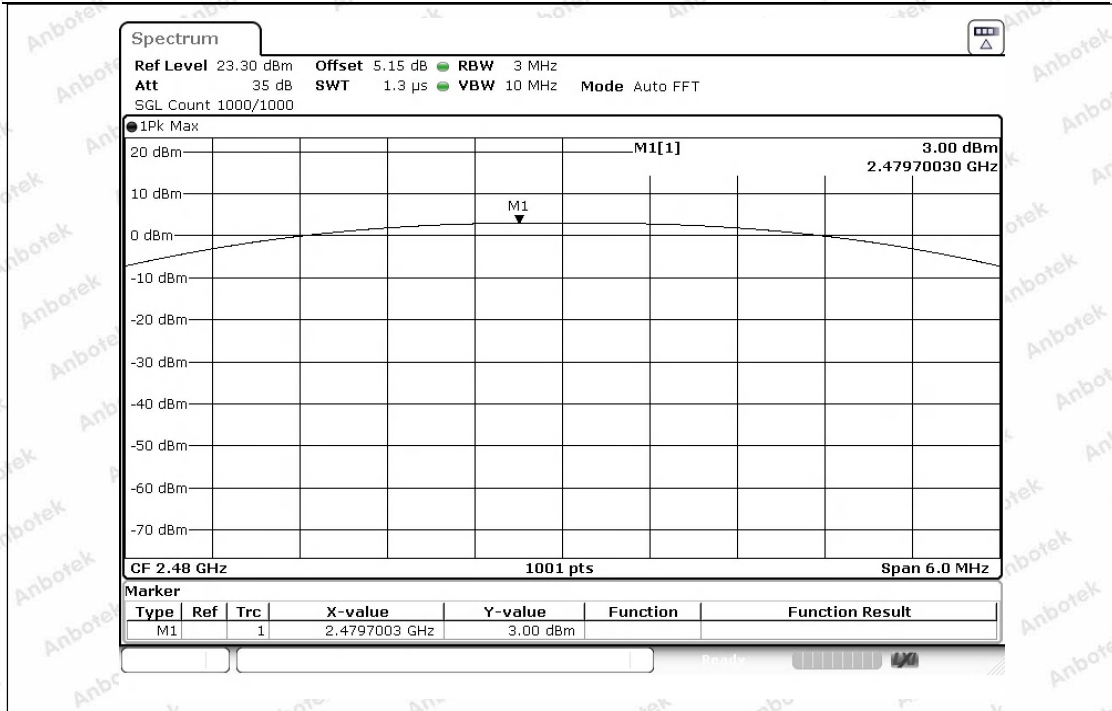


## Test Graphs



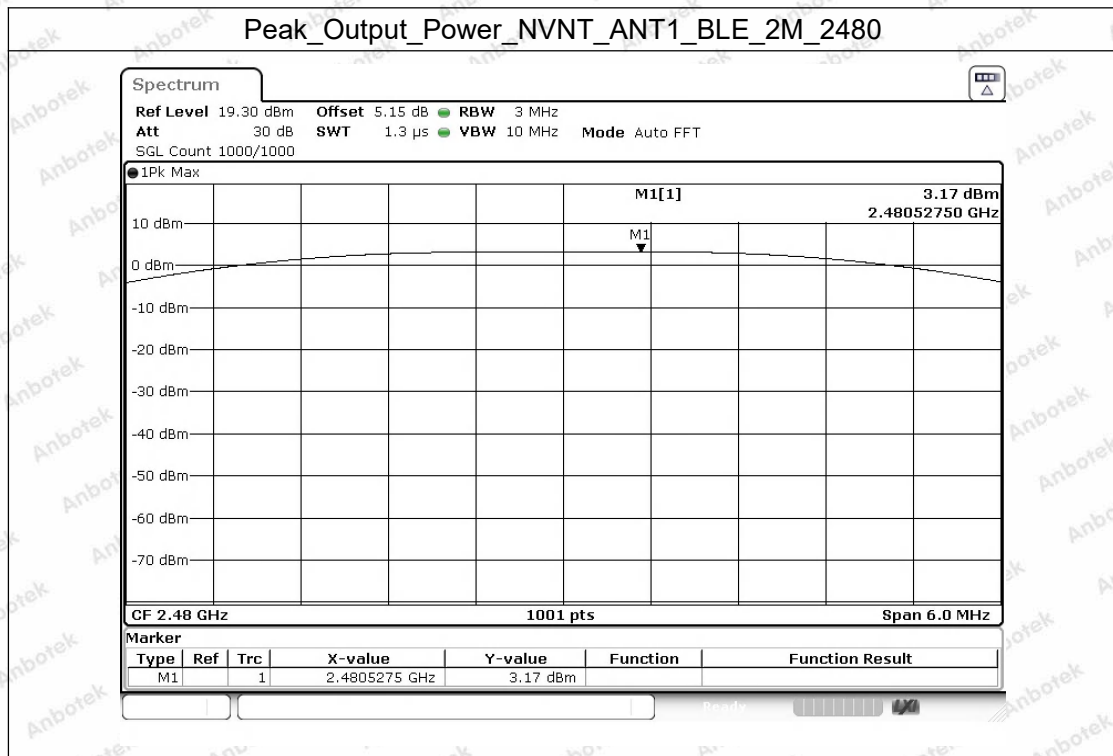
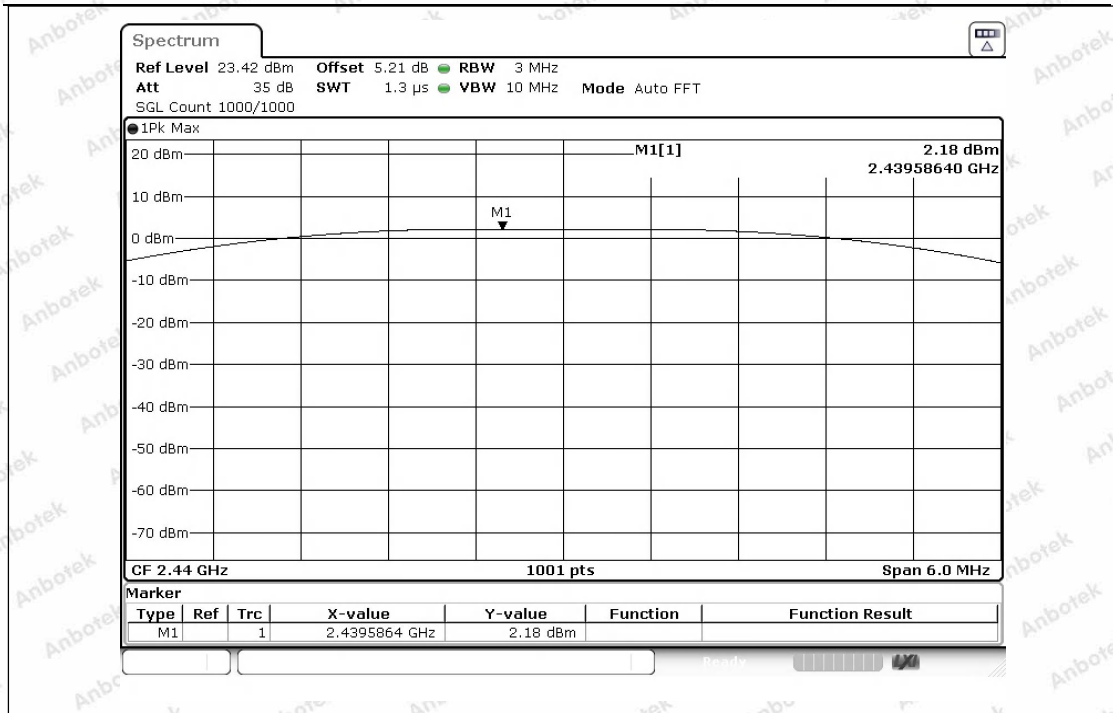
**Peak\_Output\_Power\_NVNT\_ANT1\_BLE\_1M\_2480**





Peak\_Output\_Power\_NVNT\_ANT1\_BLE\_2M\_2440





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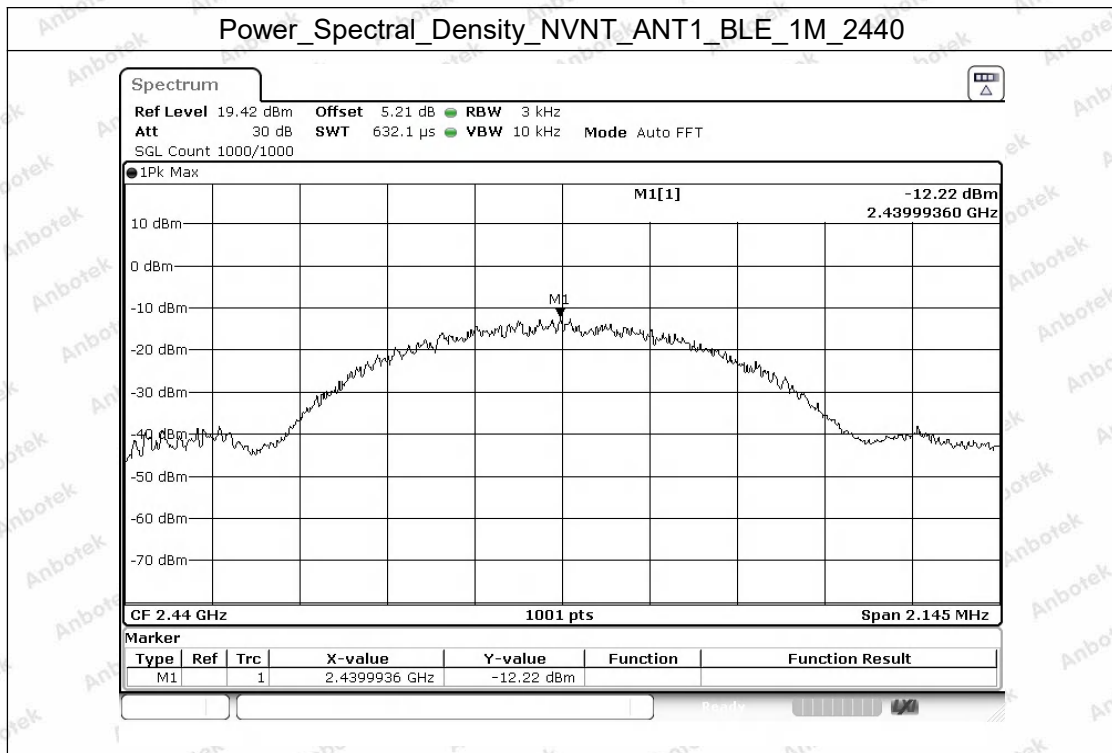
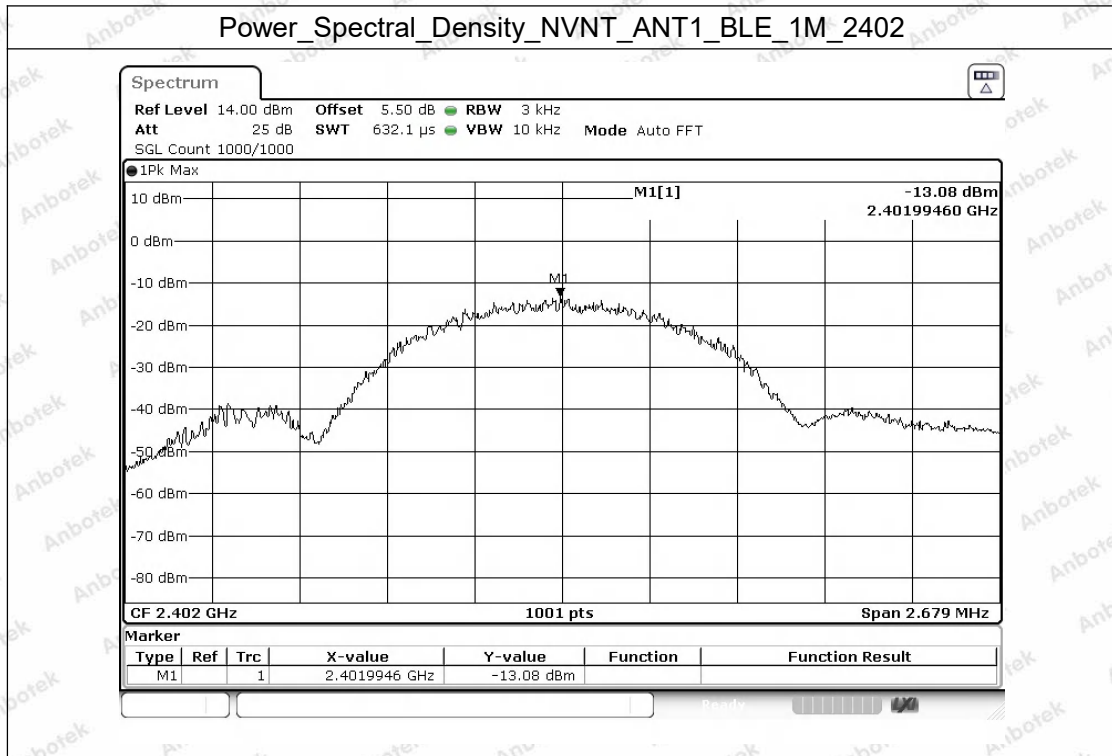
## Appendix D: Maximum power spectral density

### Test Result

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm)	Limit(dBm/3kHz)	Result
NVNT	ANT1	BLE_1M	2402	-13.08	8	Pass
NVNT	ANT1	BLE_1M	2440	-12.22	8	Pass
NVNT	ANT1	BLE_1M	2480	-11.36	8	Pass
NVNT	ANT1	BLE_2M	2402	-14.19	8	Pass
NVNT	ANT1	BLE_2M	2440	-13.51	8	Pass
NVNT	ANT1	BLE_2M	2480	-13.09	8	Pass

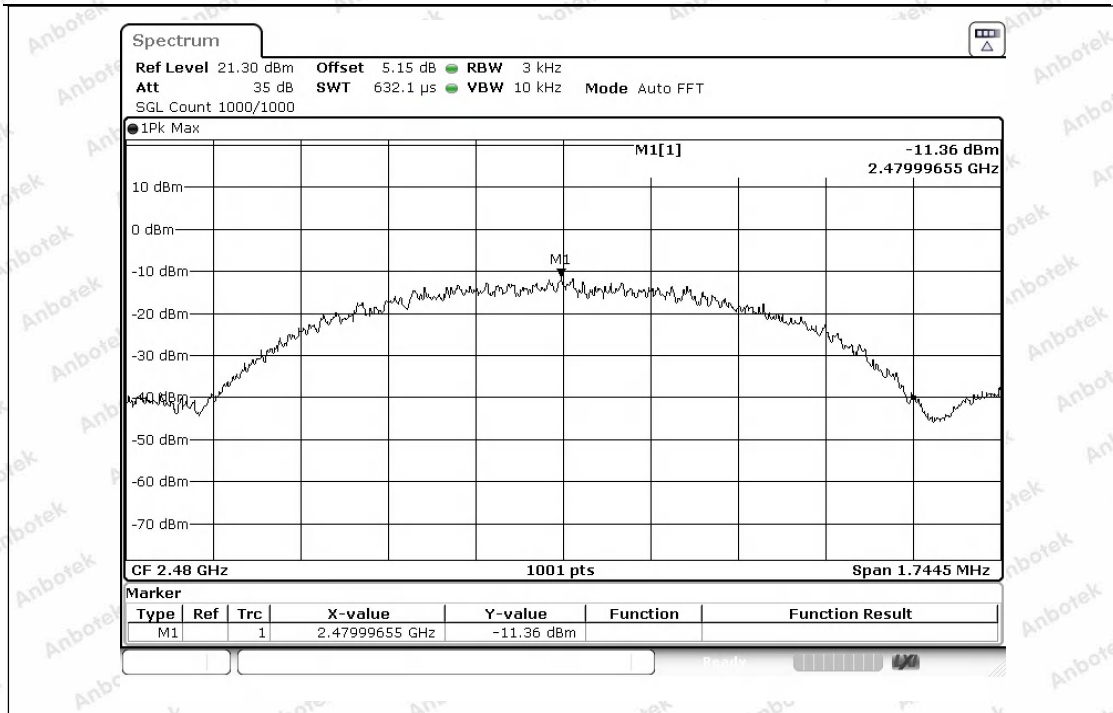


## Test Graphs

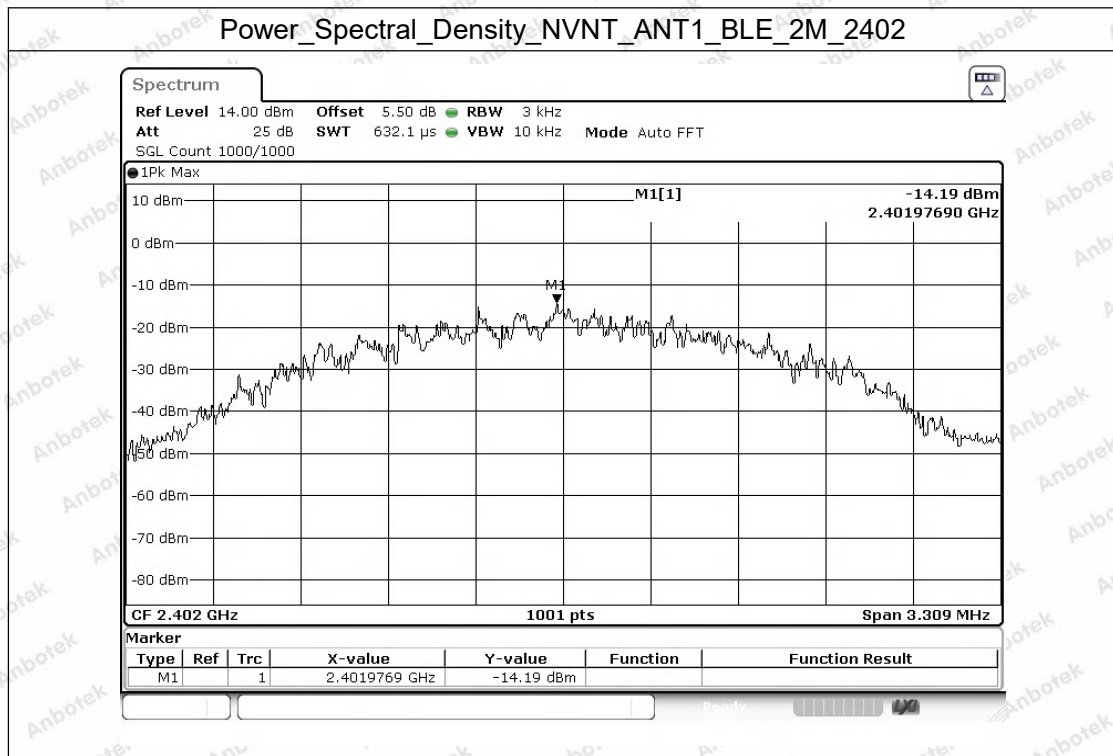


**Power\_Spectral\_Density\_NVNT\_ANT1\_BLE\_1M\_2480**



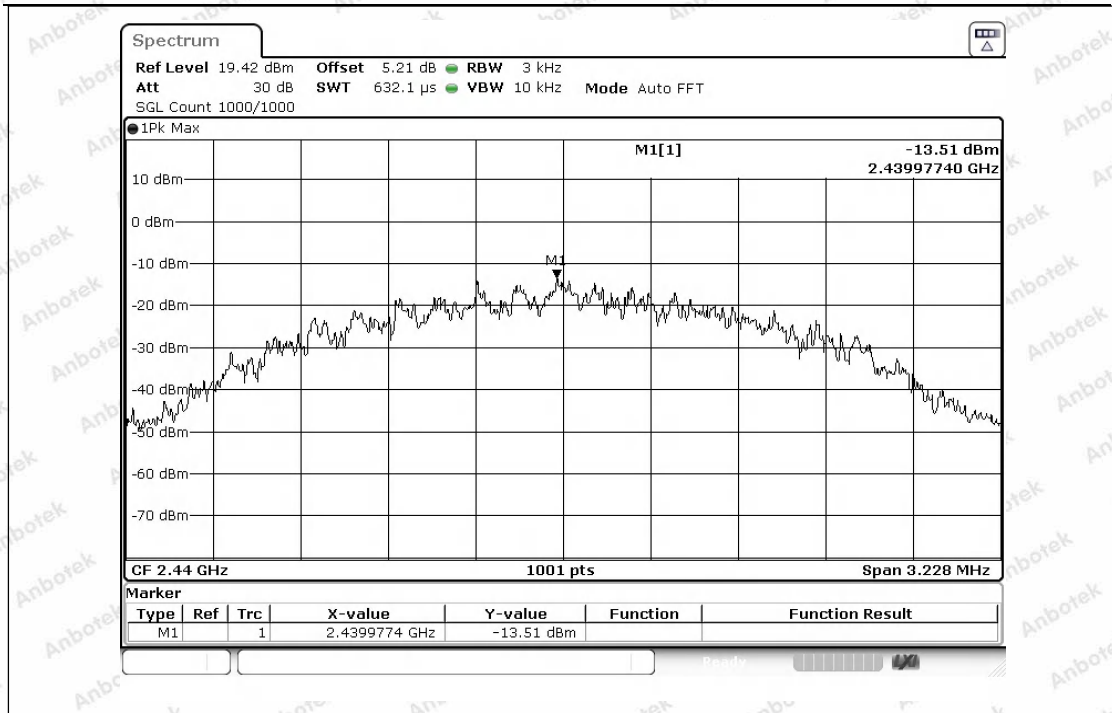


Power\_Spectral\_Density\_NVNT\_ANT1\_BLE\_2M\_2402

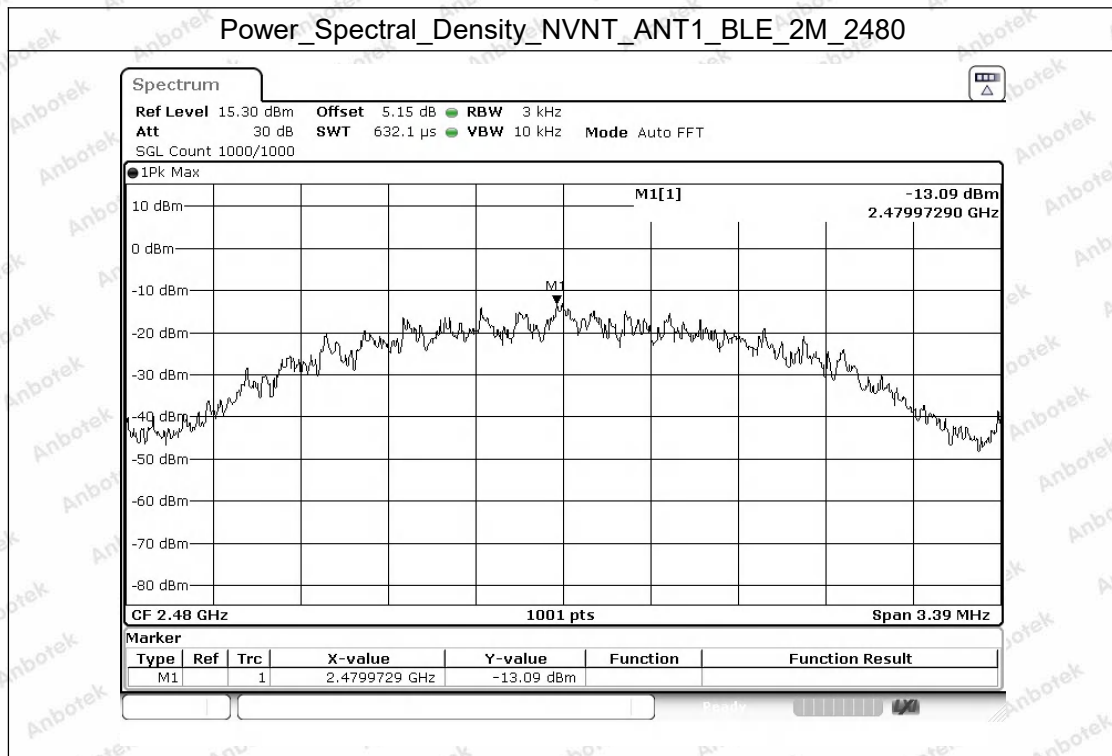


Power\_Spectral\_Density\_NVNT\_ANT1\_BLE\_2M\_2440





Power\_Spectral\_Density\_NVNT\_ANT1\_BLE\_2M\_2480



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## Appendix E: Band edge measurements

### Test Result

Condition	Antenna	Rate	TX_Frequency (MHz)	Max. Mark Frequency (MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	BLE_1M	2402	2399.733	-46.185	-20.407	Pass
NVNT	ANT1	BLE_1M	2480	2483.529	-47.537	-18.069	Pass
NVNT	ANT1	BLE_2M	2402	2399.923	-32.750	-23.359	Pass
NVNT	ANT1	BLE_2M	2480	2493.169	-48.748	-17.786	Pass

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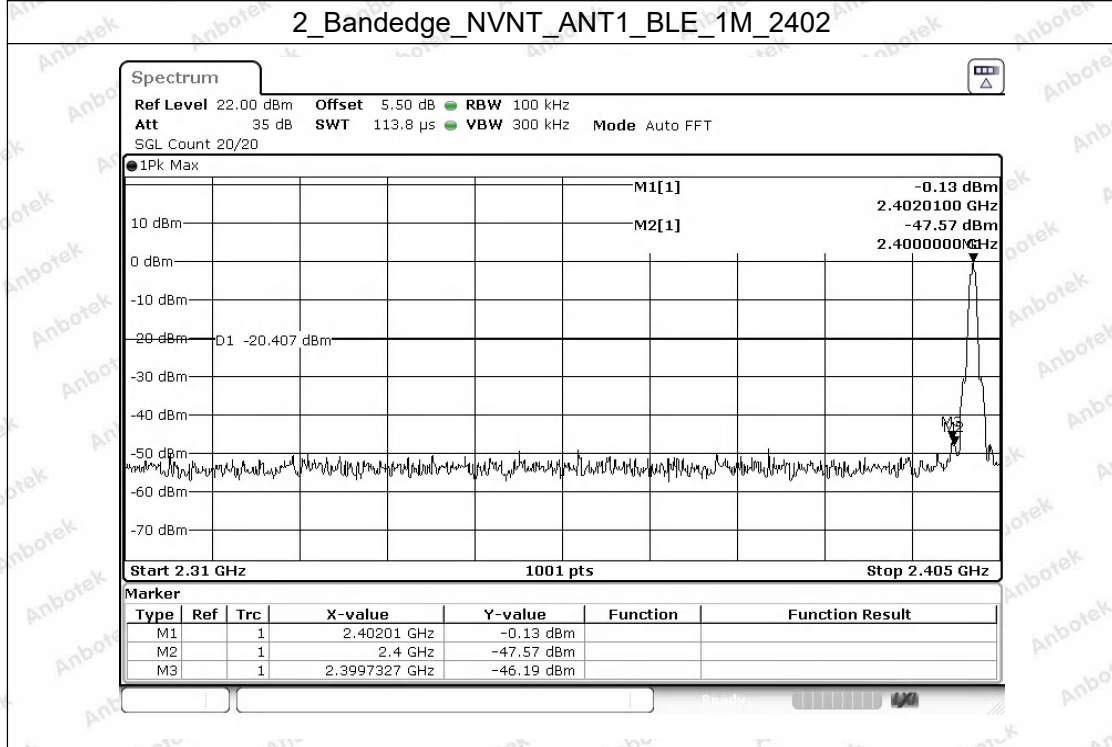
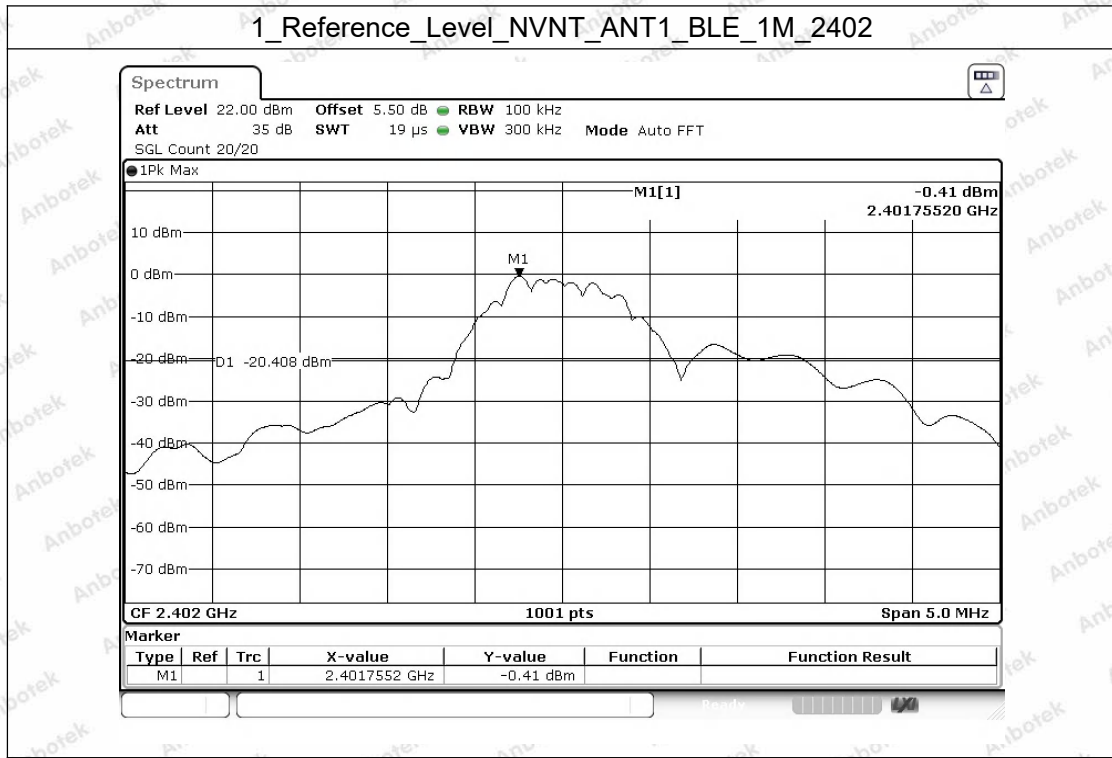
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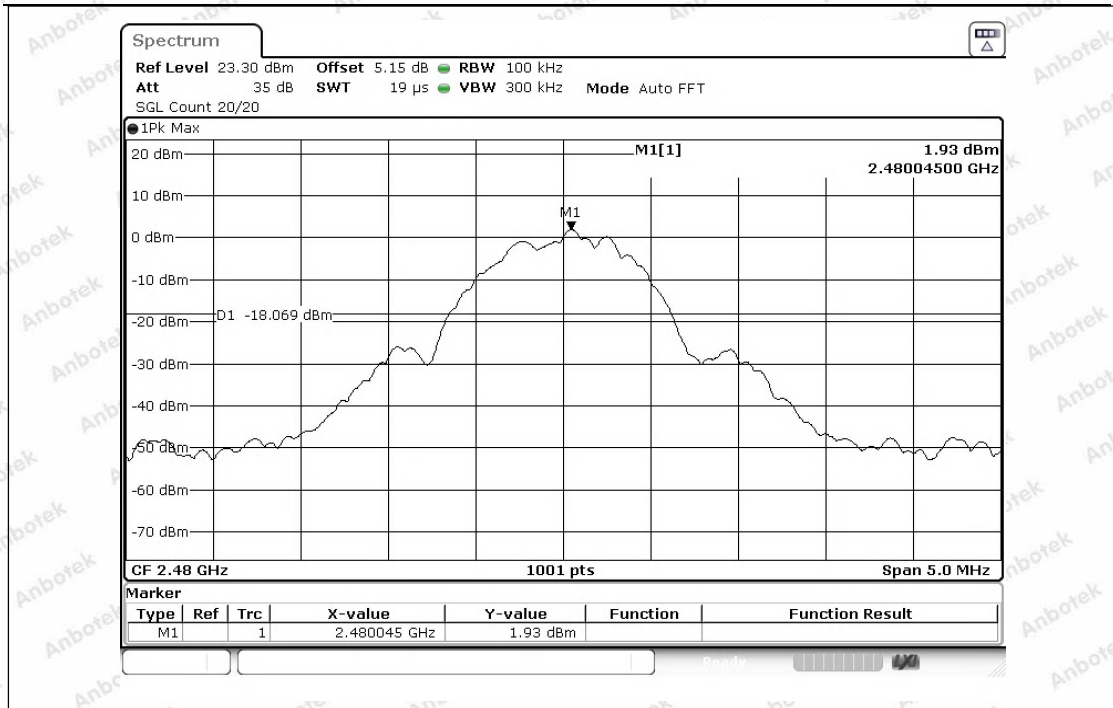


## Test Graphs

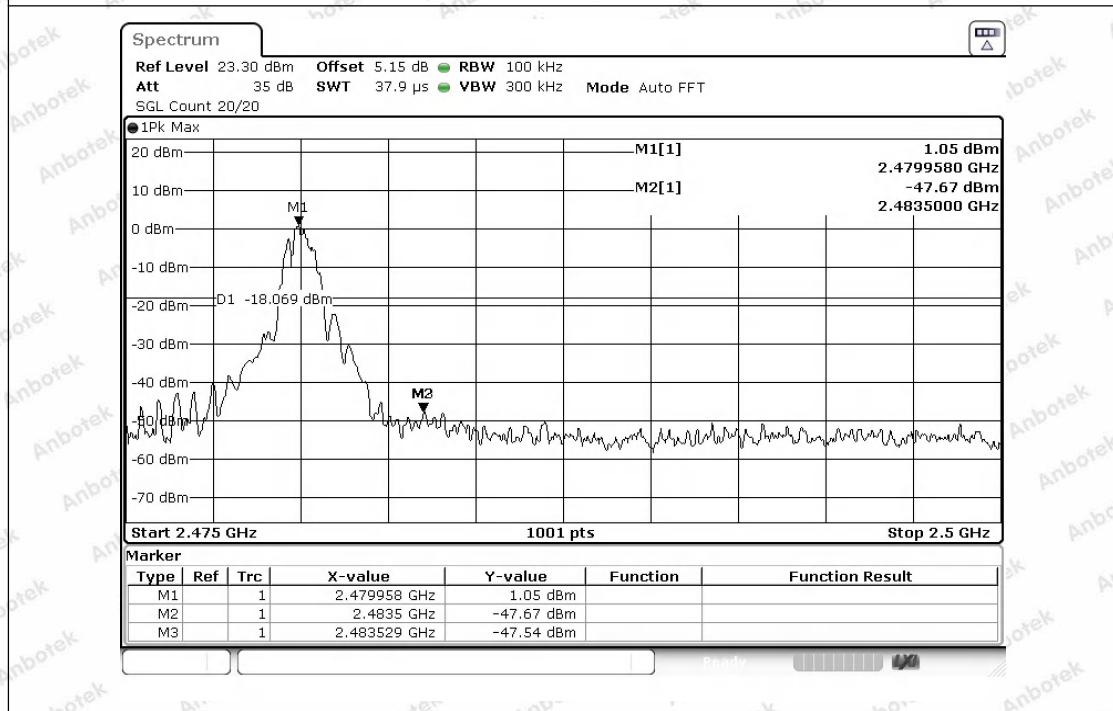


### 1\_Reference\_Level\_NVNT\_ANT1\_BLE\_1M\_2480



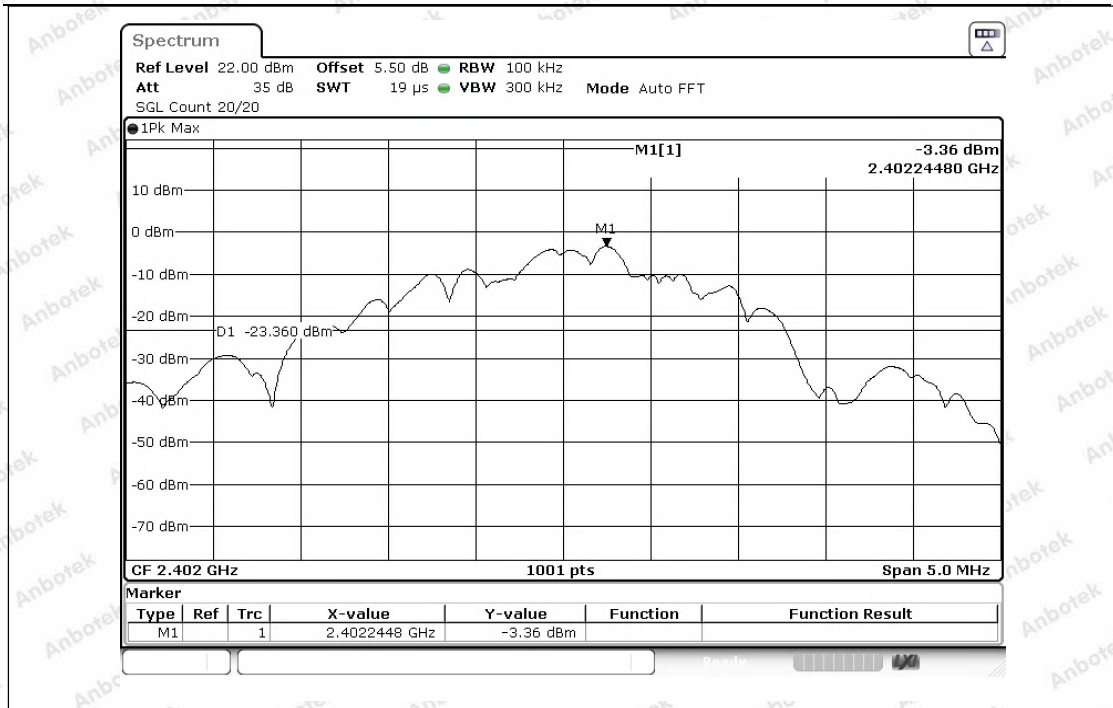


2\_Bandedge\_NVNT\_ANT1\_BLE\_1M\_2480

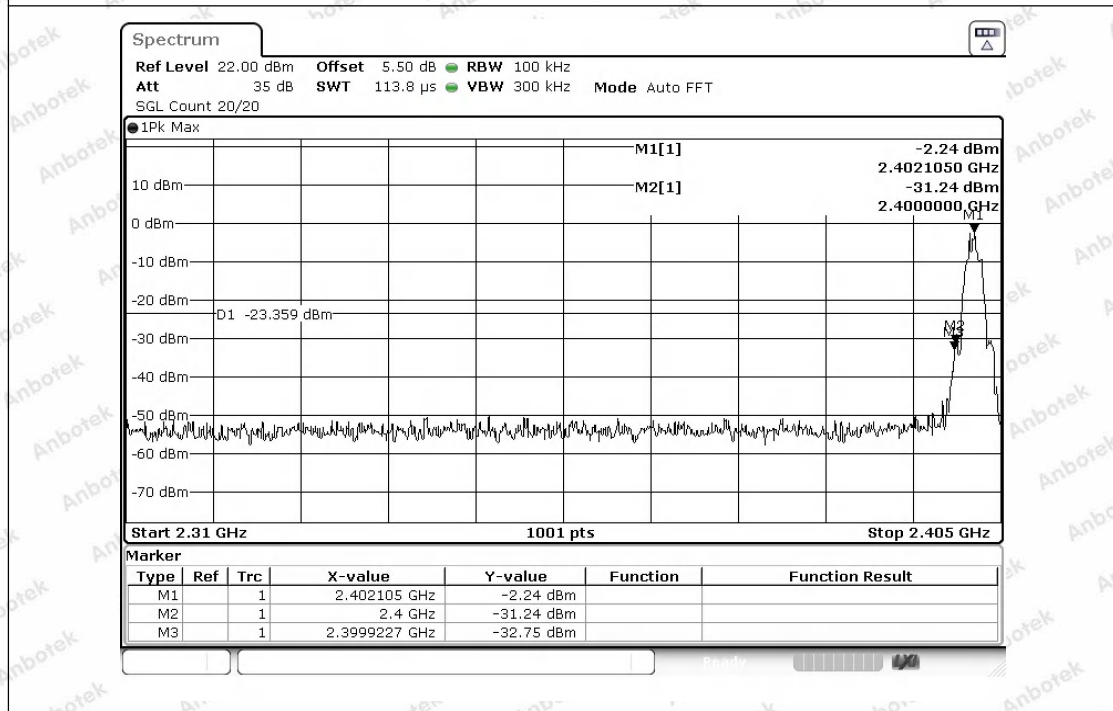


1\_Reference\_Level\_NVNT\_ANT1\_BLE\_2M\_2402



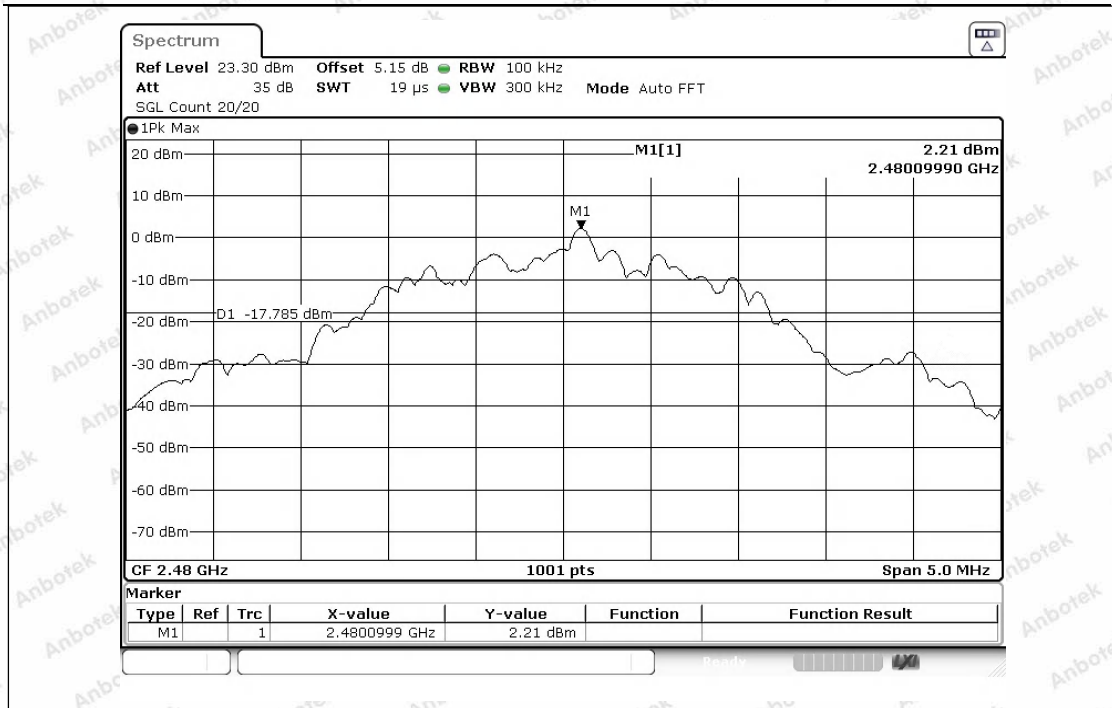


2\_Bandedge\_NVNT\_ANT1\_BLE\_2M\_2402

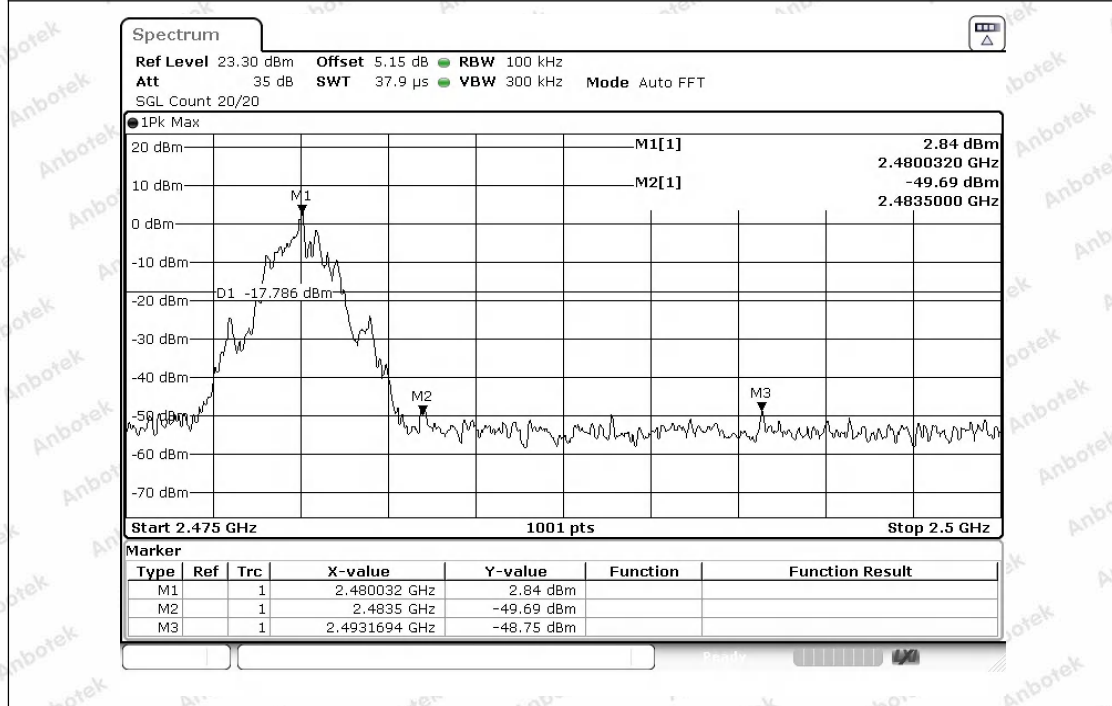


1\_Reference\_Level\_NVNT\_ANT1\_BLE\_2M\_2480





## 2\_Bandedge\_NVNT\_ANT1\_BLE\_2M\_2480



## Appendix F: Conducted Spurious Emission

### Test Result

Condition	Antenna	Rate	TX_Frequency(MHz)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	BLE_1M	2402	-25.497	-20.407	Pass
NVNT	ANT1	BLE_1M	2440	-22.998	-18.627	Pass
NVNT	ANT1	BLE_1M	2480	-25.260	-18.069	Pass
NVNT	ANT1	BLE_2M	2402	-25.743	-23.359	Pass
NVNT	ANT1	BLE_2M	2440	-22.930	-22.695	Pass
NVNT	ANT1	BLE_2M	2480	-23.821	-17.786	Pass

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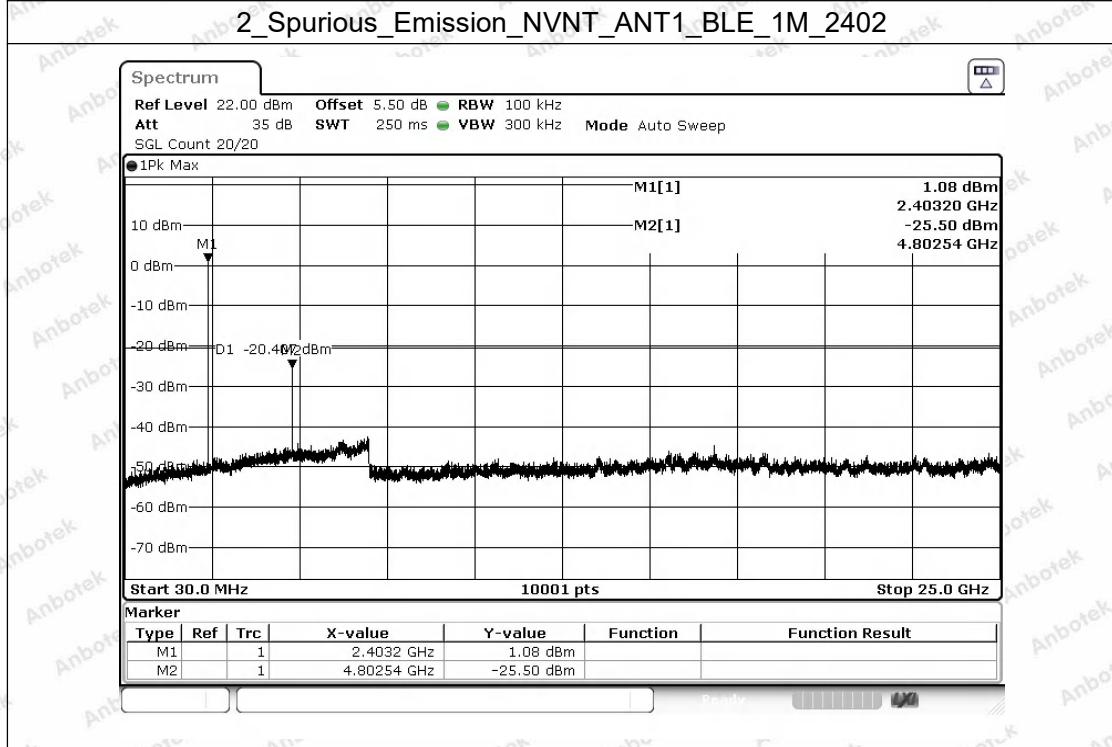
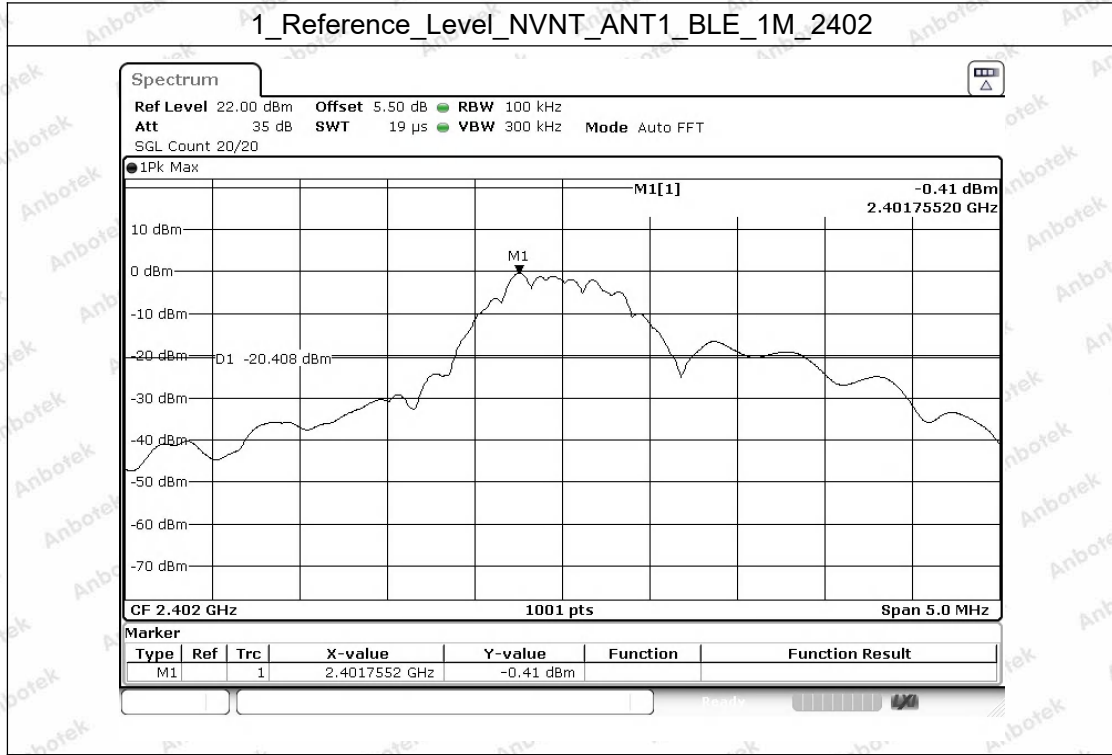
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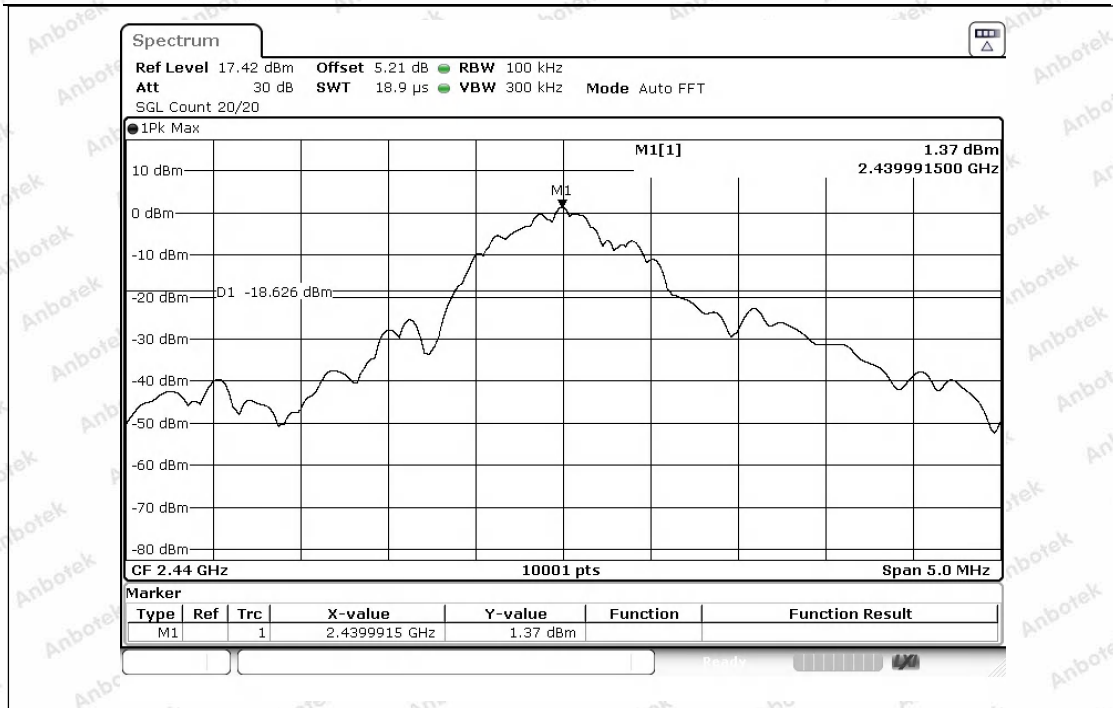


## Test Graphs

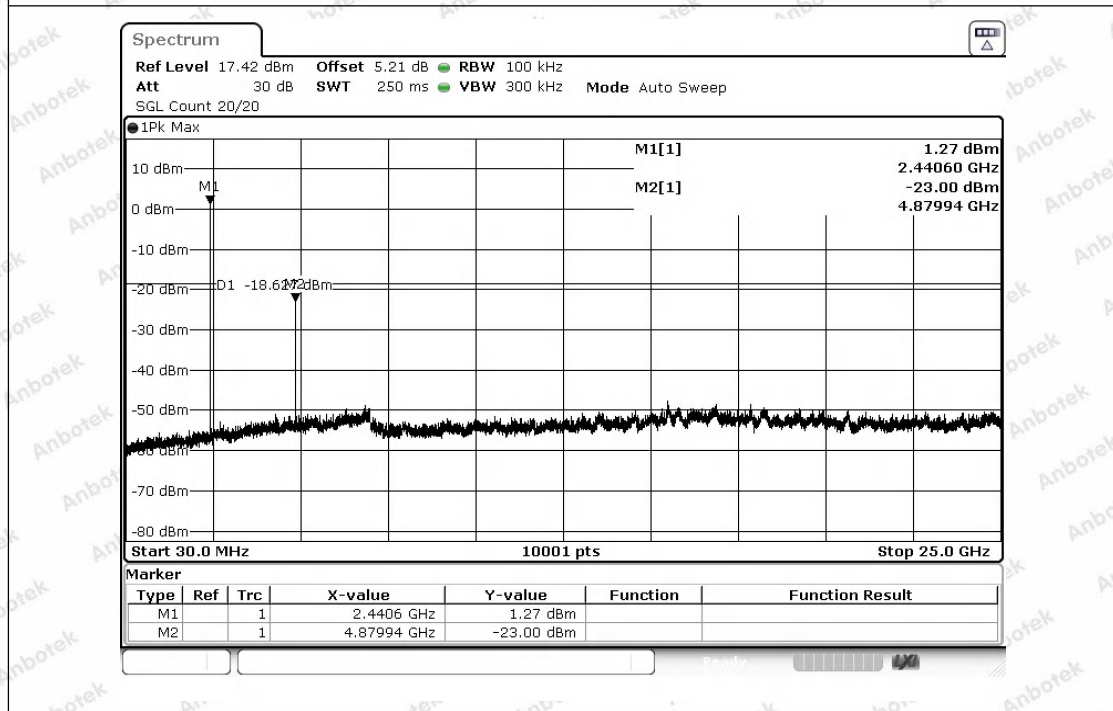


1\_Reference\_Level\_NVNT\_ANT1\_BLE\_1M\_2440





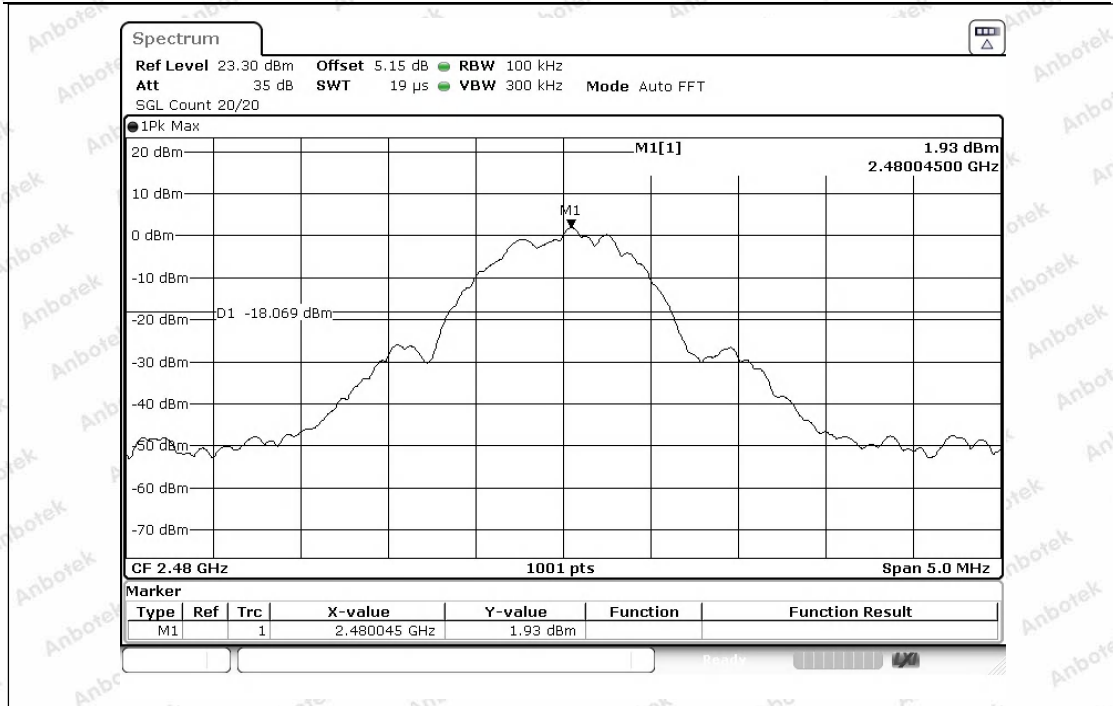
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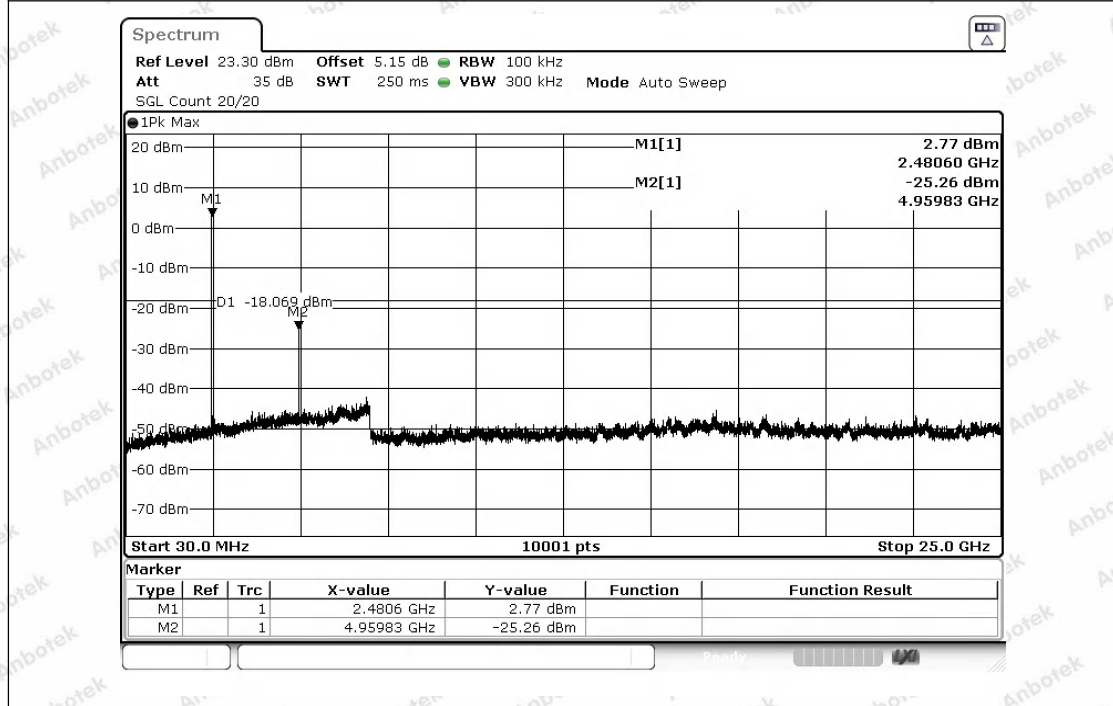
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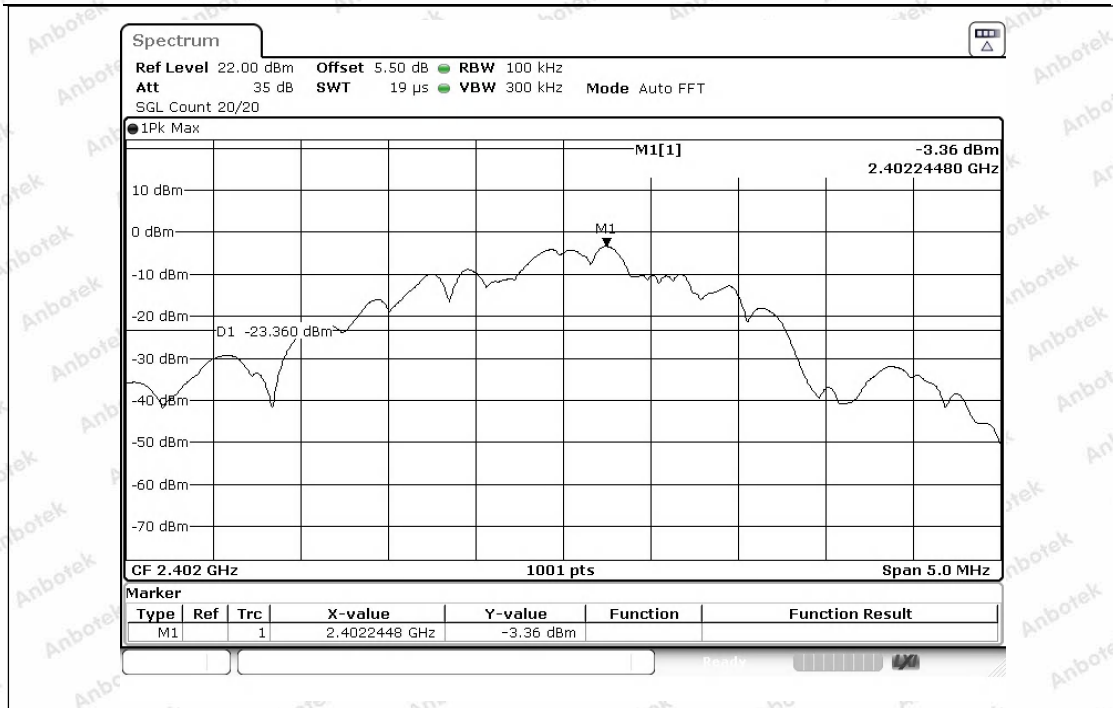


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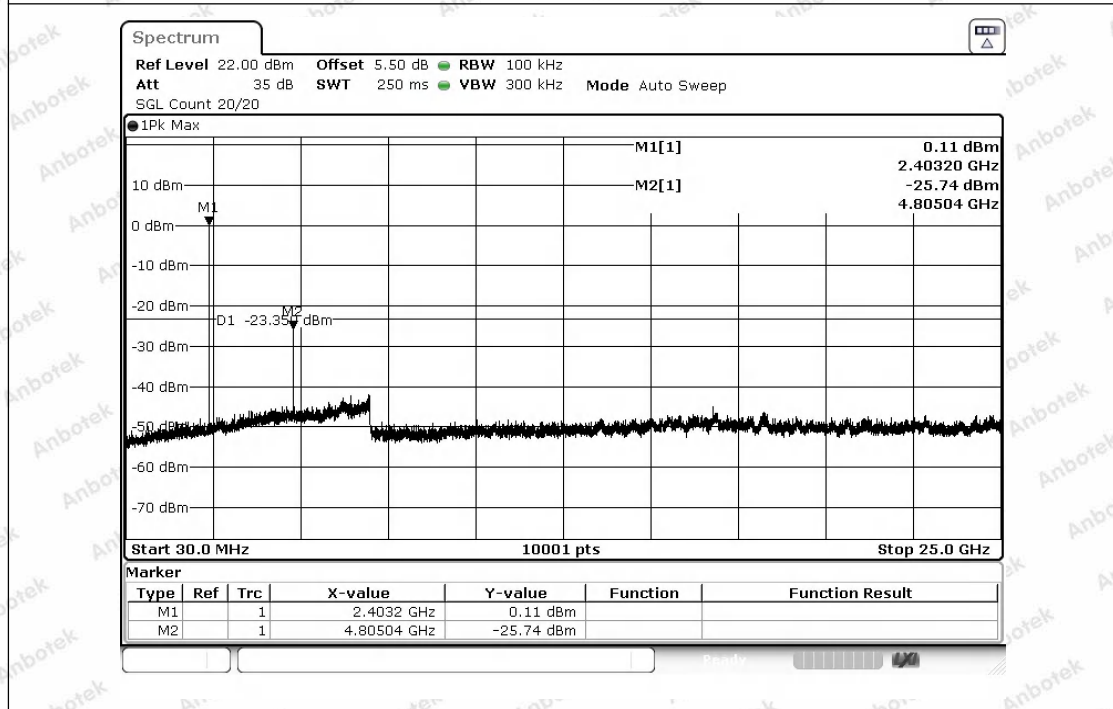


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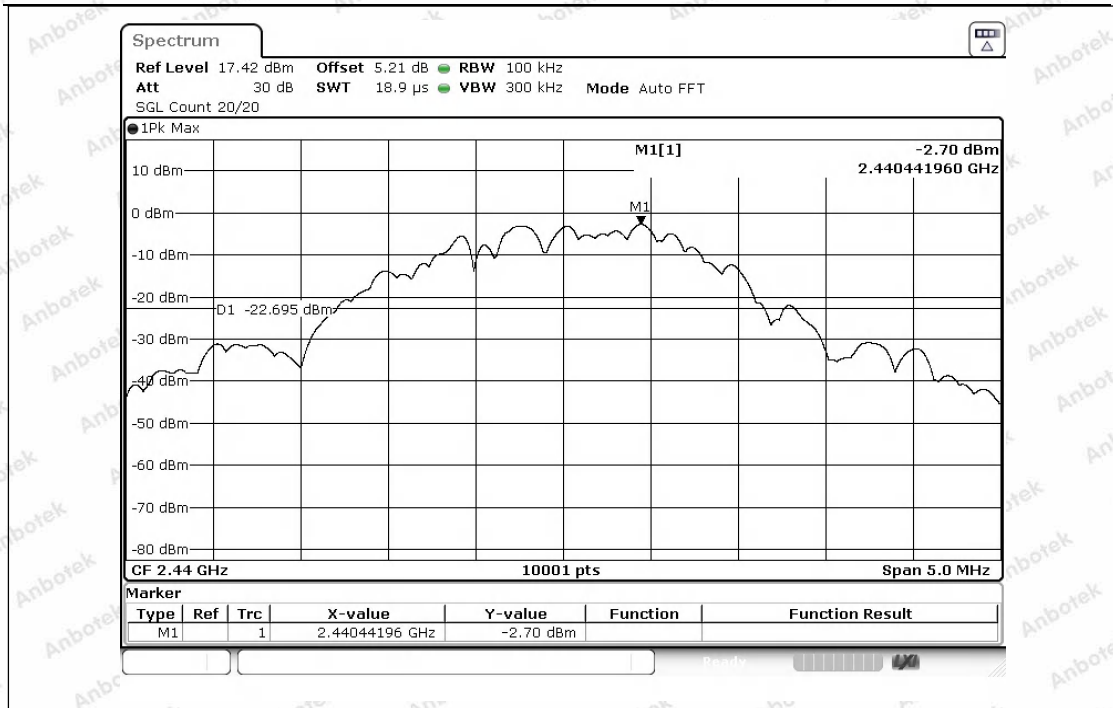


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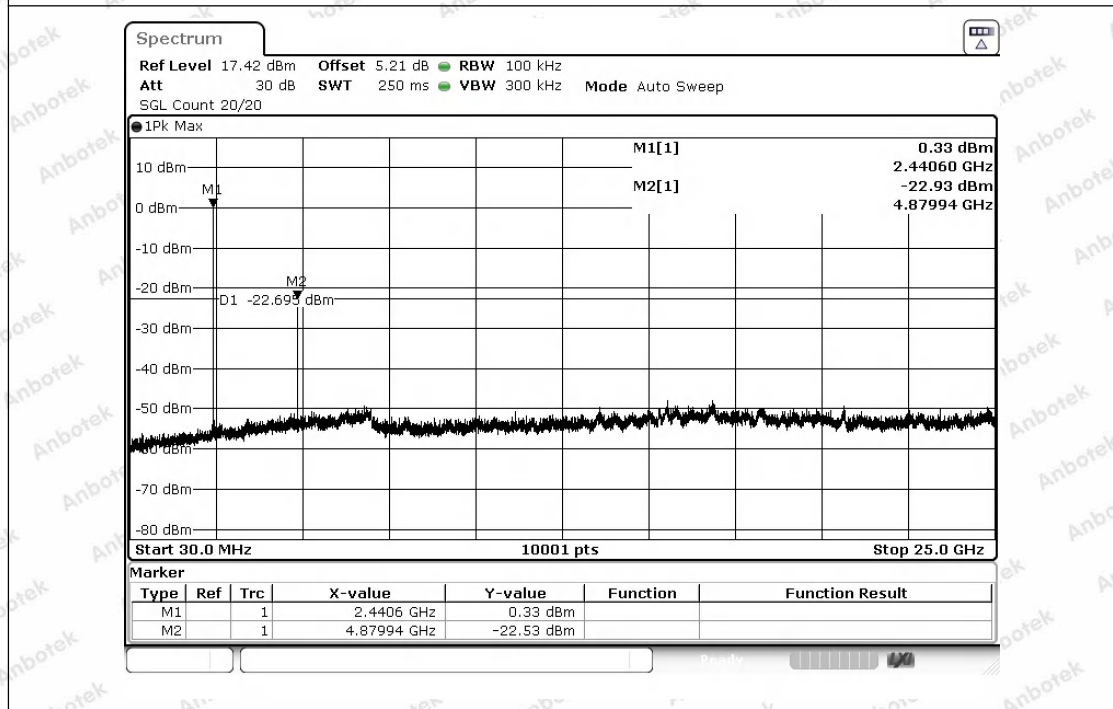


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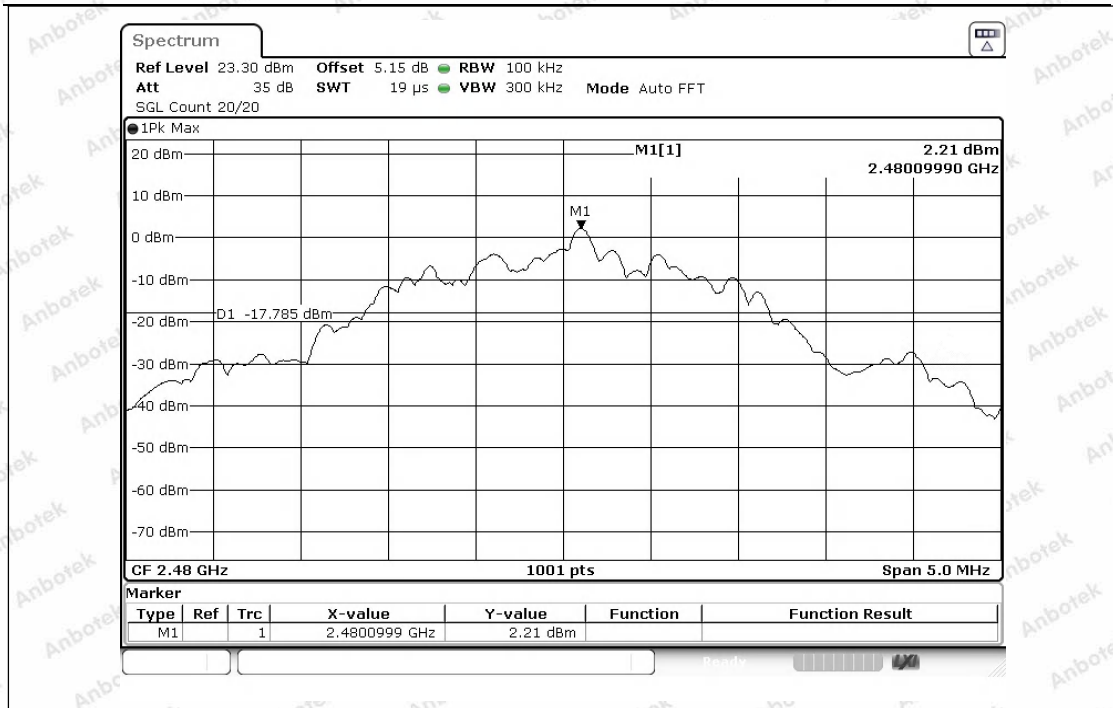


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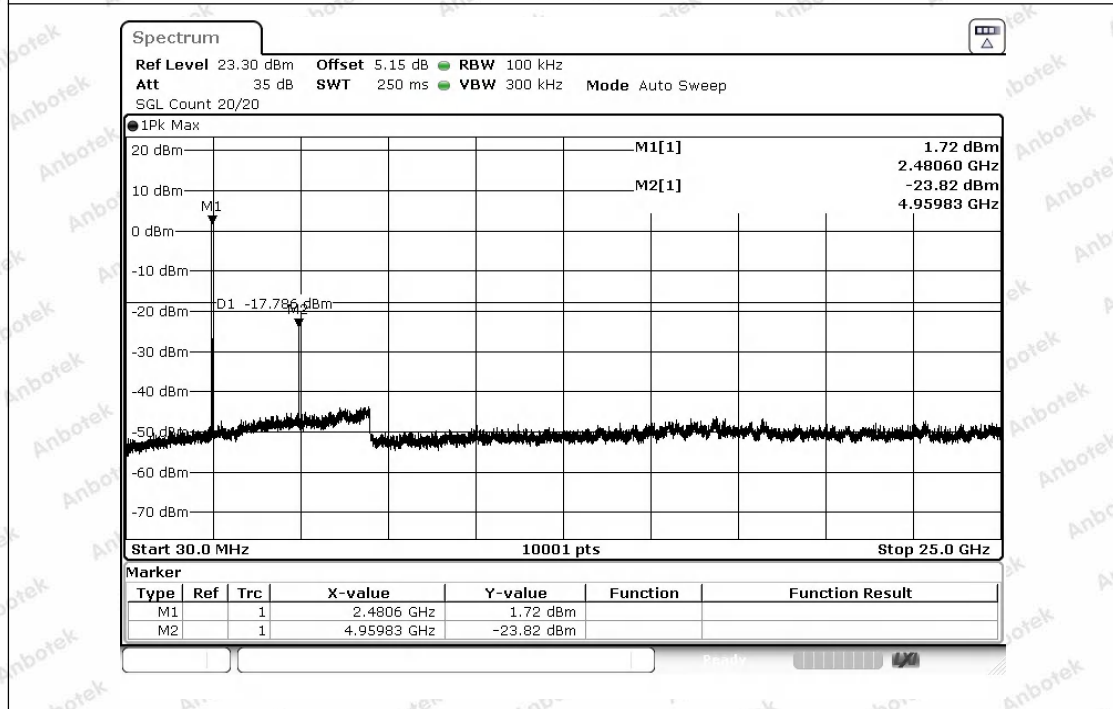


## 1\_Reference\_Level\_NVNT\_ANT1\_BLE\_2M\_2480





## 2\_Spurious\_Emission\_NVNT\_ANT1\_BLE\_2M\_2480



---End---

