



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Enya INSPIRE Electric Guitar

Test Model: INSPIRE

Environmental Conditions

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



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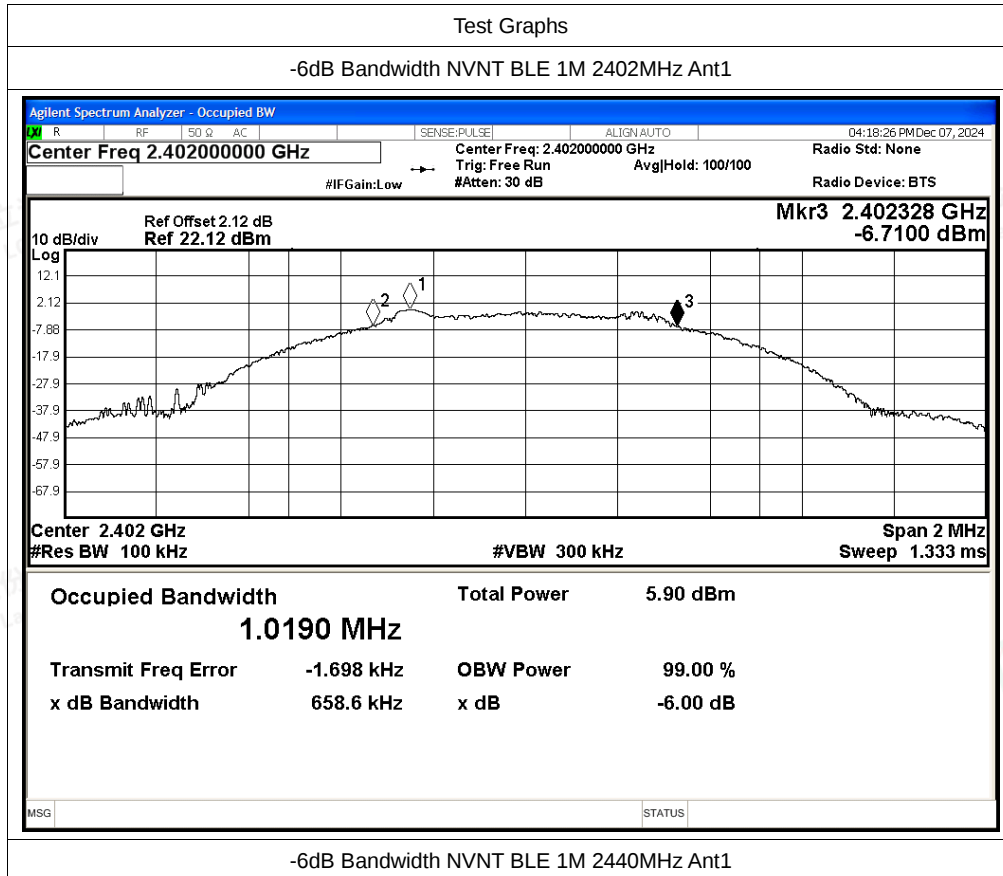
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

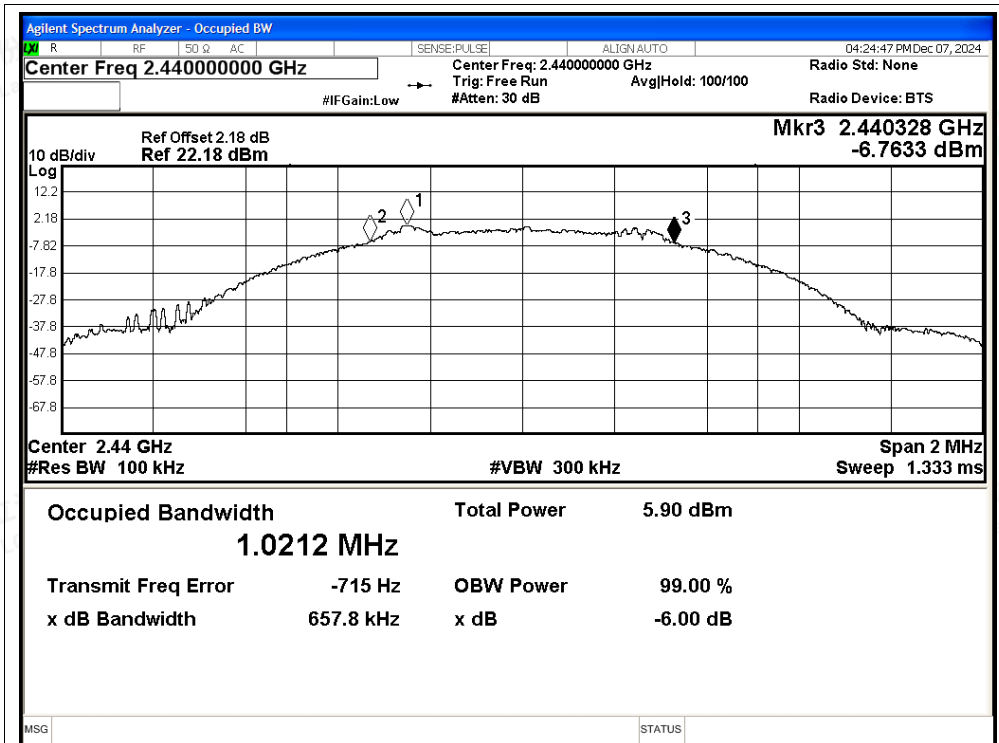
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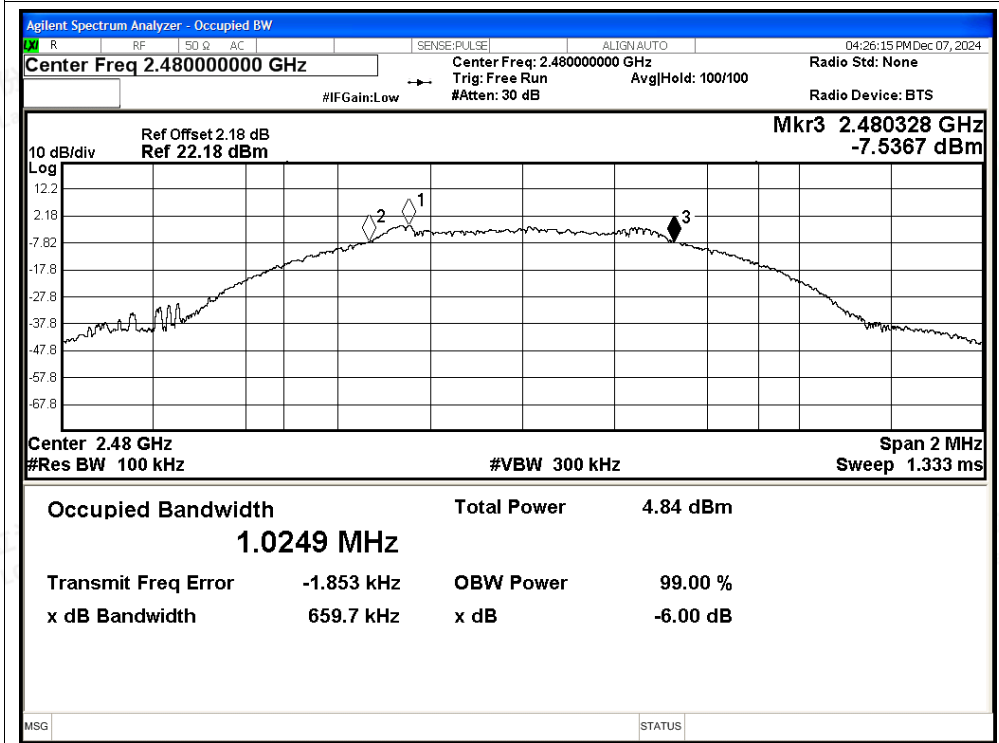
B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.659	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.658	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.66	≥ 0.5	Pass





-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



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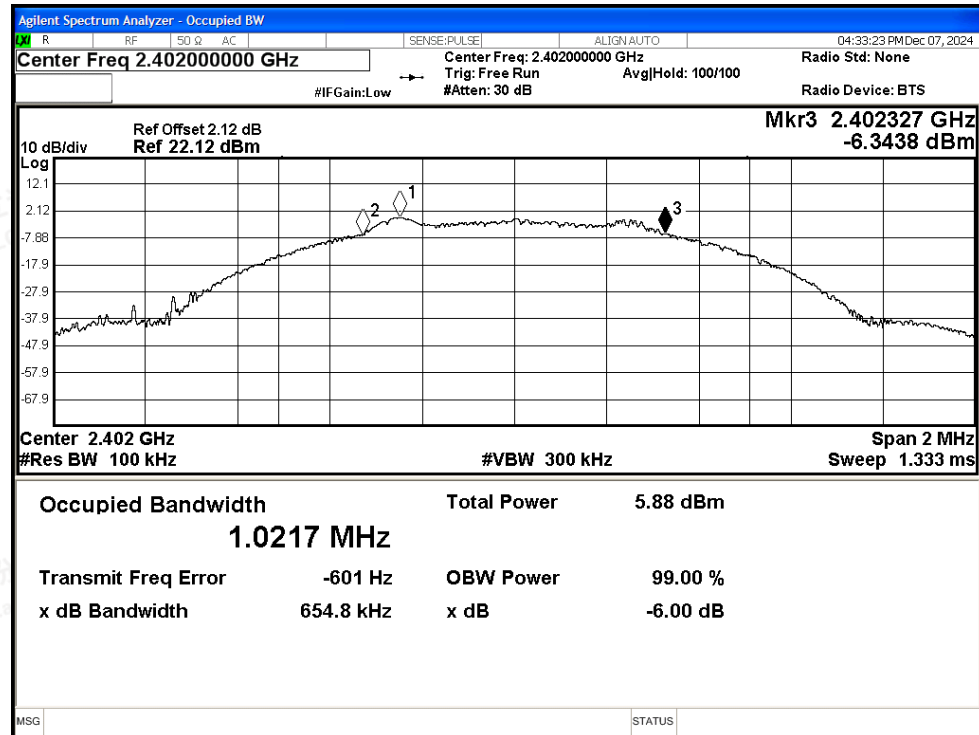
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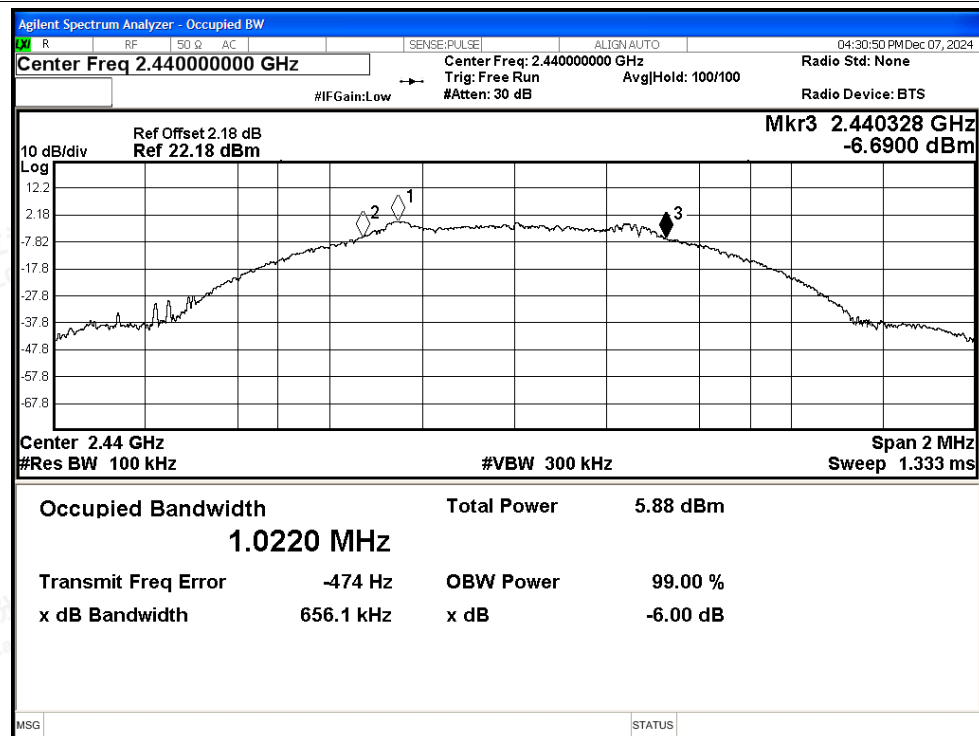
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant2	0.655	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant2	0.656	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant2	0.651	≥ 0.5	Pass

Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant2



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant2

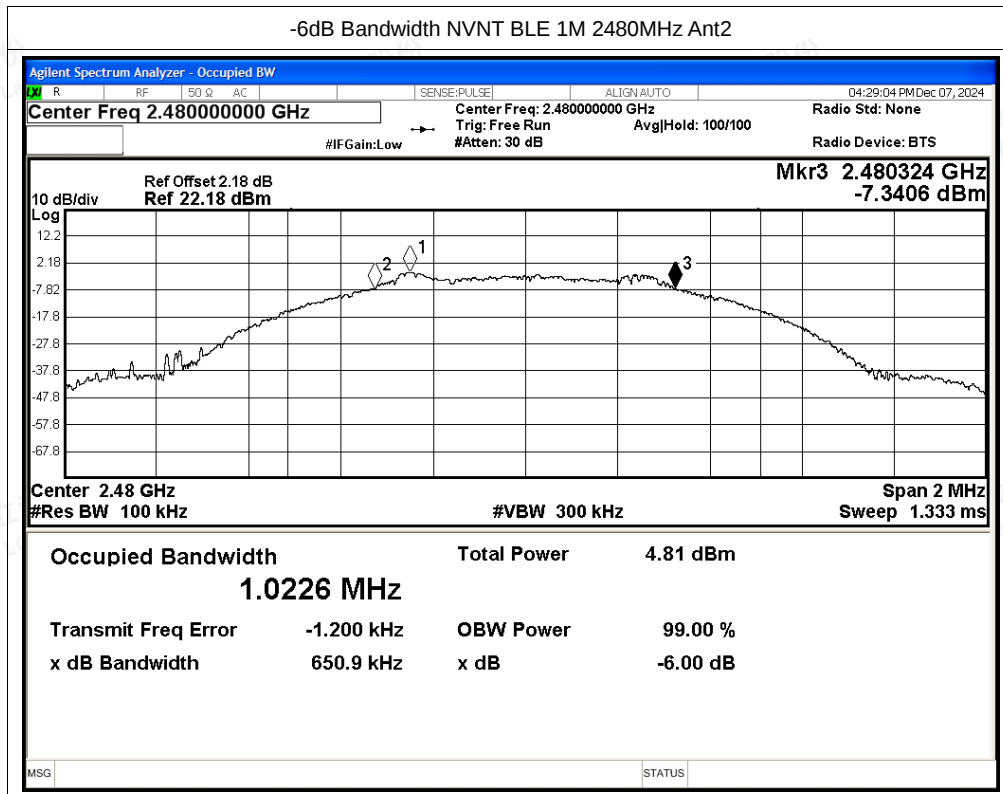


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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.03	30	Pass
NVNT	BLE 1M	2440	Ant1	0.02	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.99	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant2	0.01	30	Pass
NVNT	BLE 1M	2440	Ant2	0.03	30	Pass
NVNT	BLE 1M	2480	Ant2	-1	30	Pass

Ant1 + Ant2

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+ Ant2		
NVNT	BLE 1M	2402	0.03	0.01	3.03	30	Pass
NVNT	BLE 1M	2440	0.02	0.03	3.03	30	Pass
NVNT	BLE 1M	2480	-0.99	-1	2.02	30	Pass



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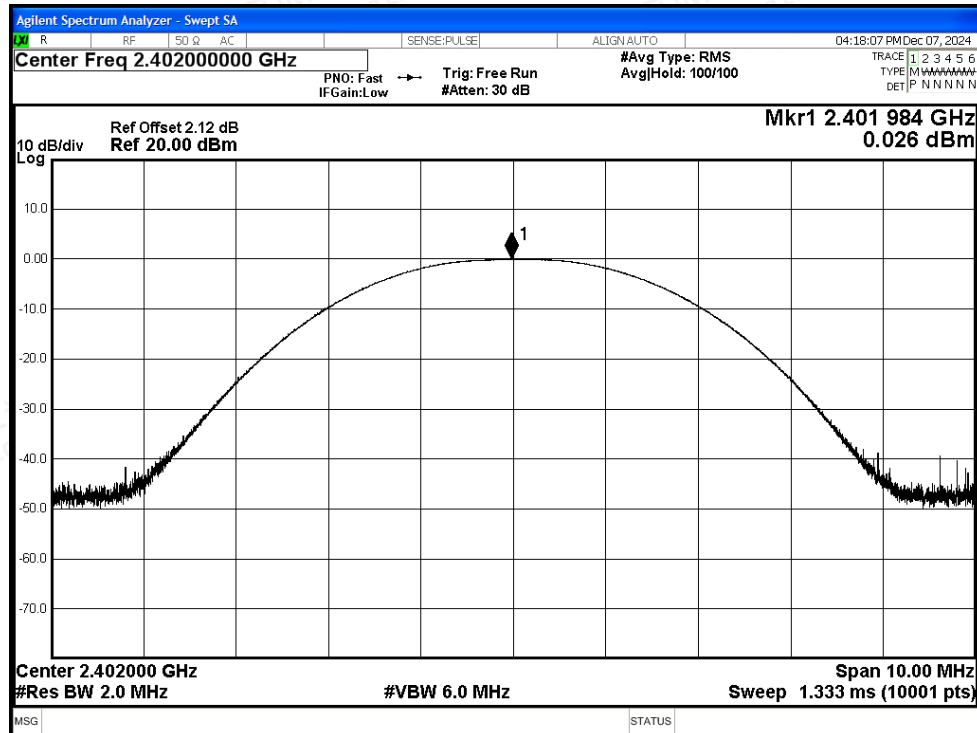
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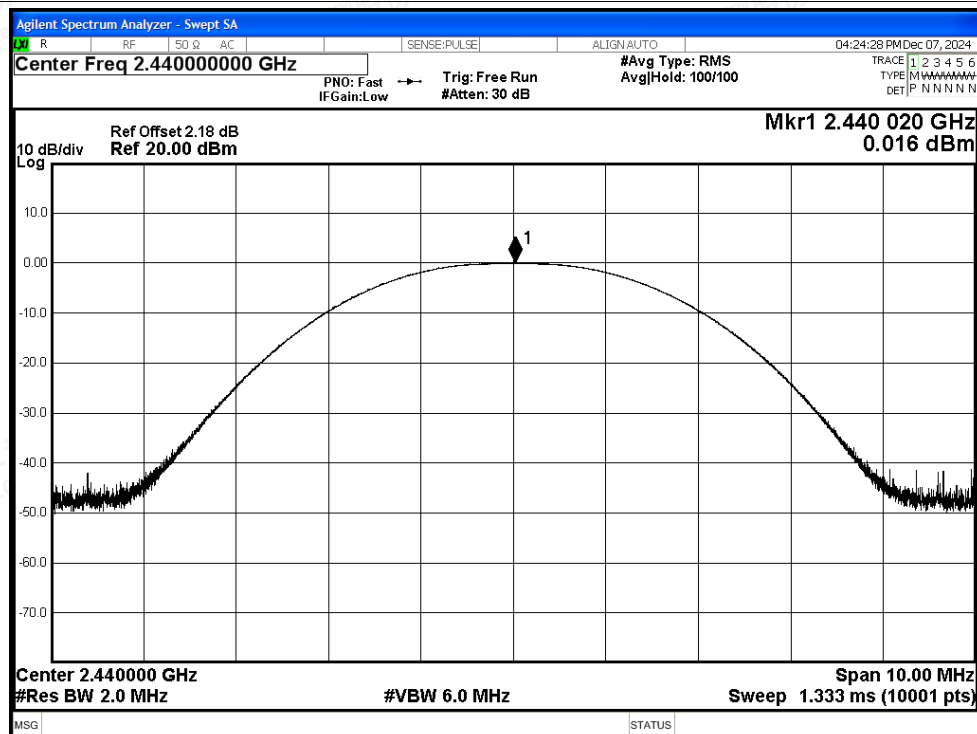


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

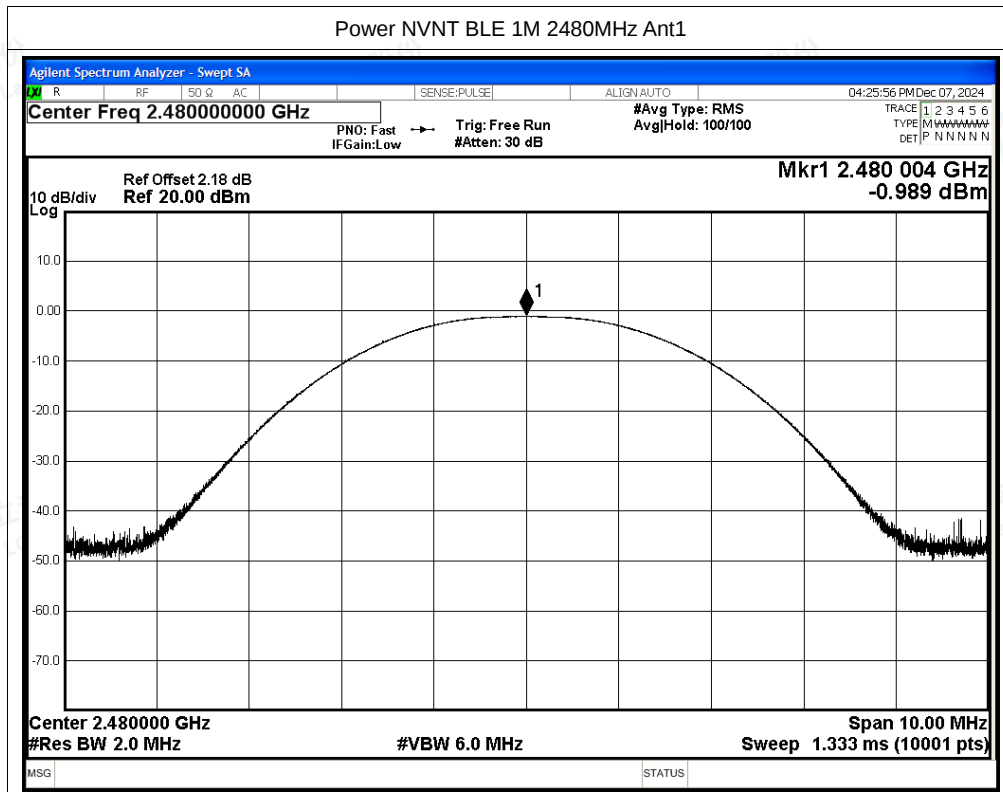


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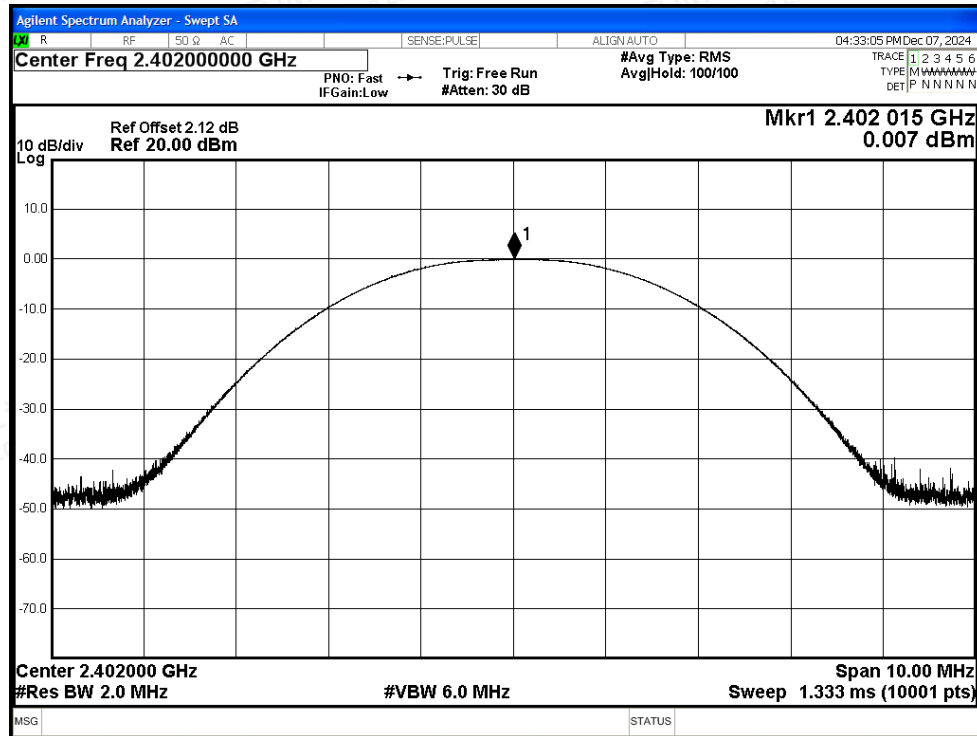
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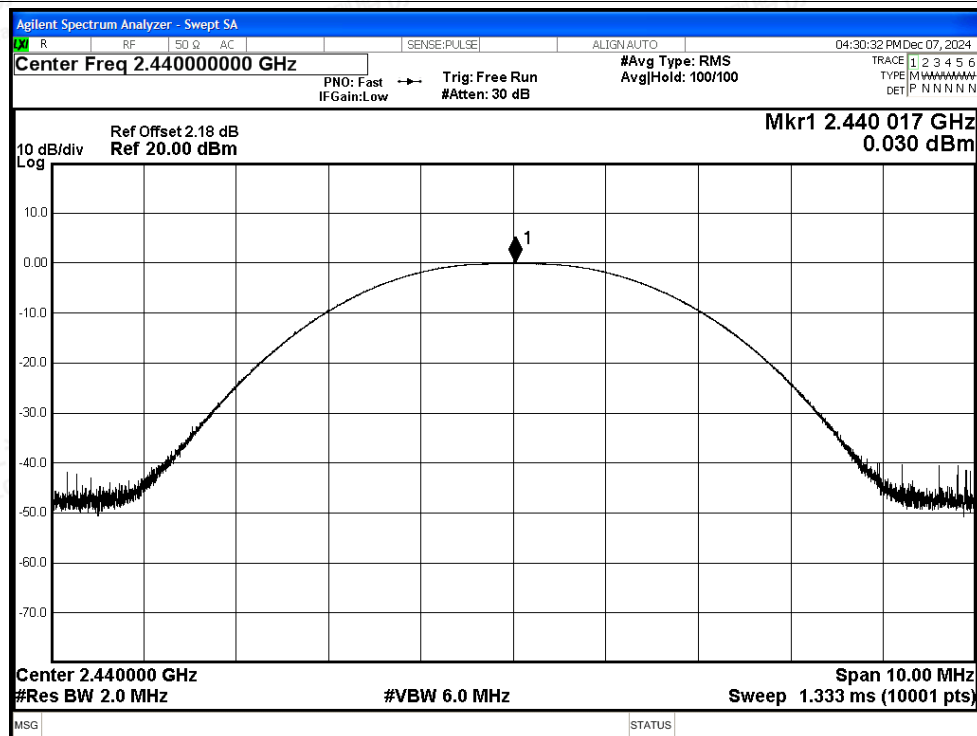


Test Graphs

Power NVNT BLE 1M 2402MHz Ant2



Power NVNT BLE 1M 2440MHz Ant2

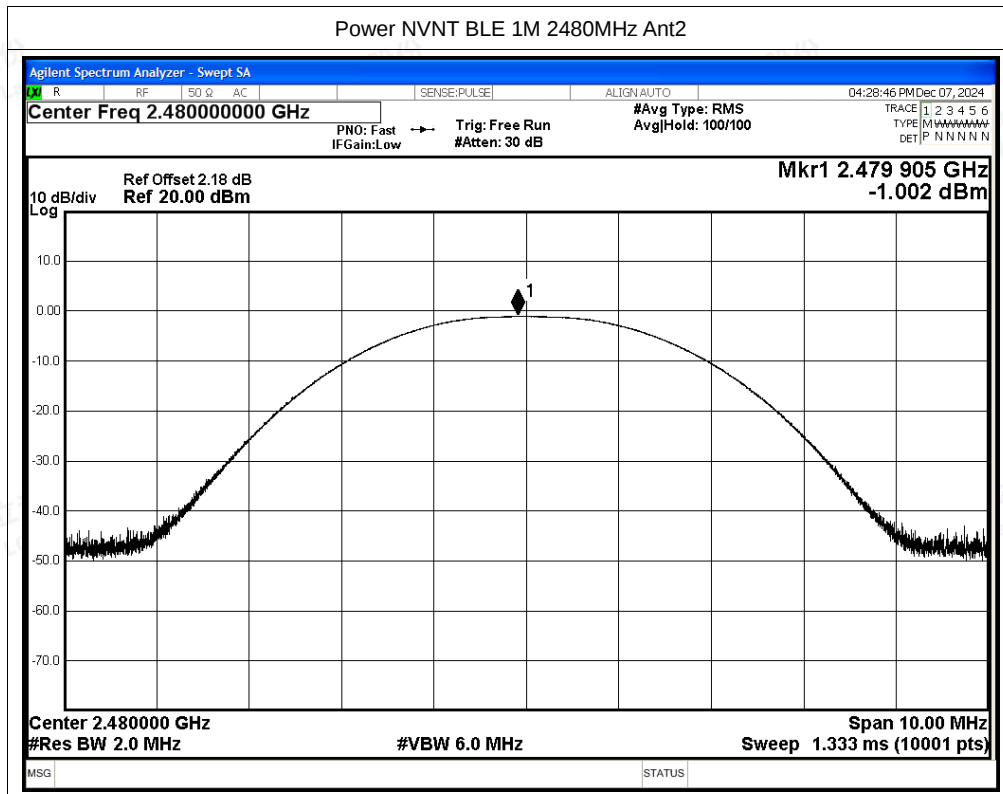


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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-16.57	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.92	8	Pass
NVNT	BLE 1M	2480	Ant1	-17.67	8	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant2	-16.88	8	Pass
NVNT	BLE 1M	2440	Ant2	-16.38	8	Pass
NVNT	BLE 1M	2480	Ant2	-17.55	8	Pass

An1 + Ant 2

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)			Limit (dBm/3kHz)	Verdict
			Ant1	Ant2	Ant1+ Ant2		
NVNT	BLE 1M	2402	-16.57	-16.88	-13.71	8	Pass
NVNT	BLE 1M	2440	-16.92	-16.38	-13.63	8	Pass
NVNT	BLE 1M	2480	-17.67	-17.55	-14.60	8	Pass



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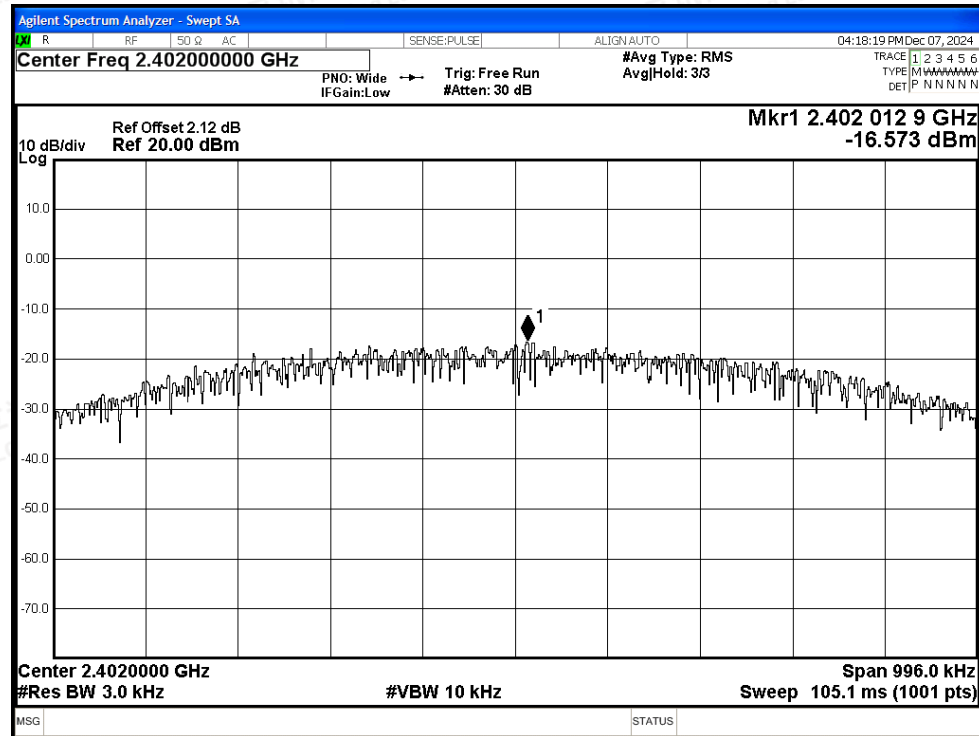
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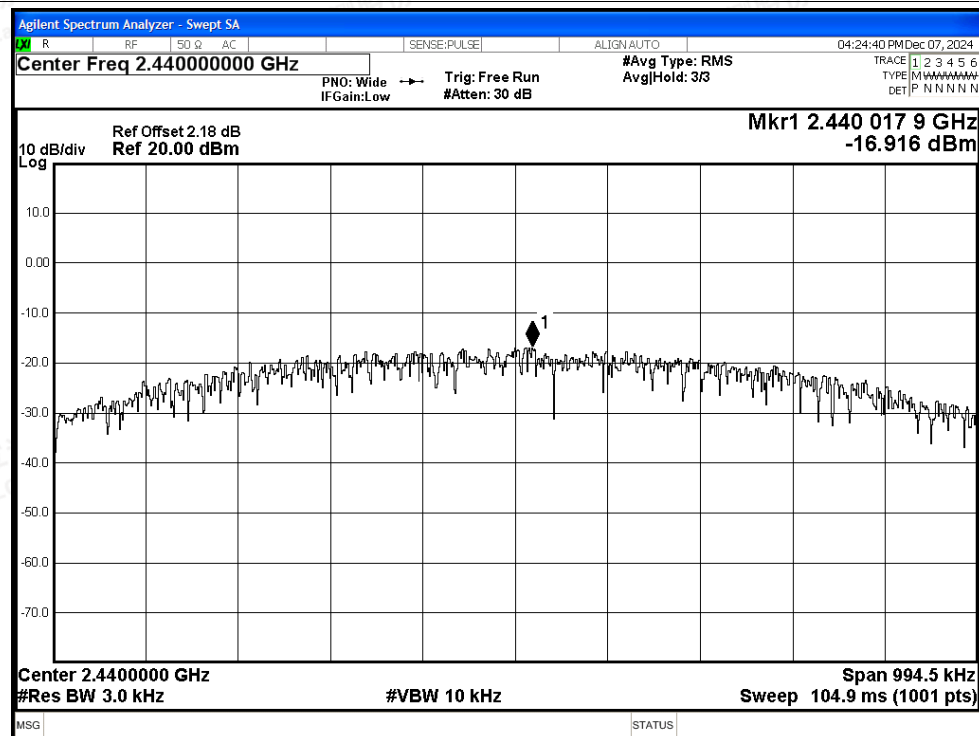


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

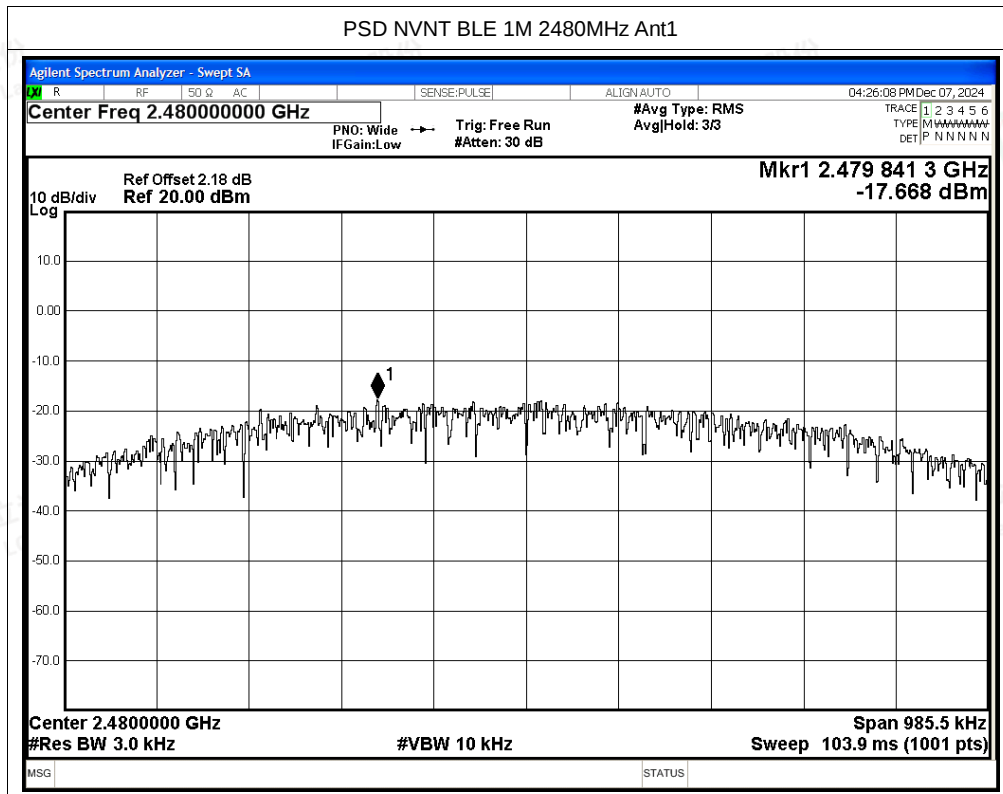


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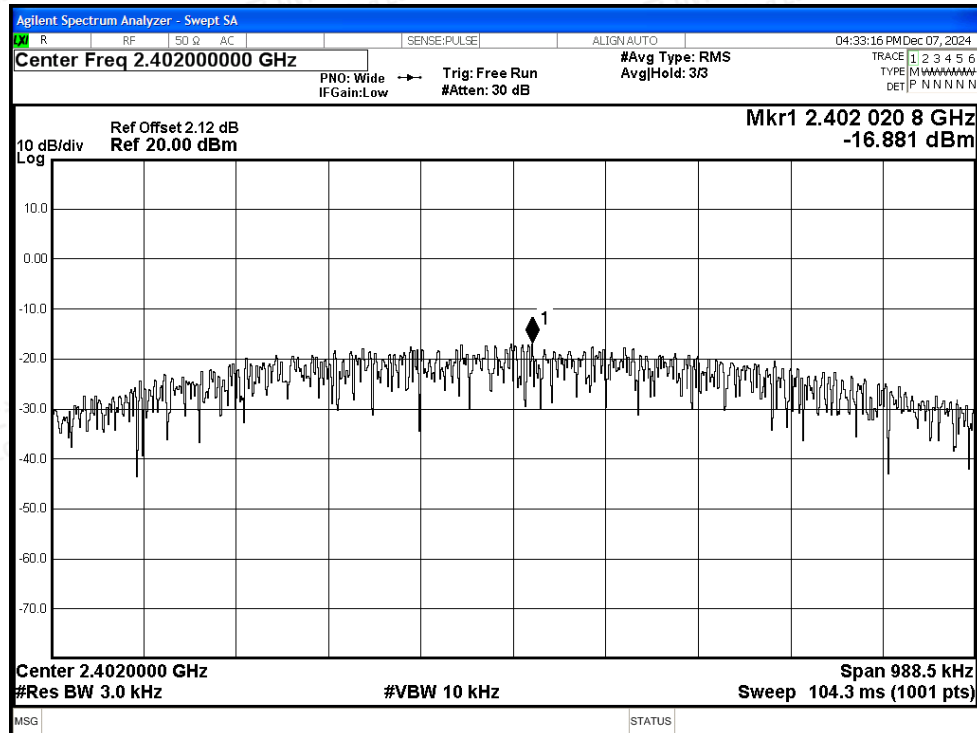
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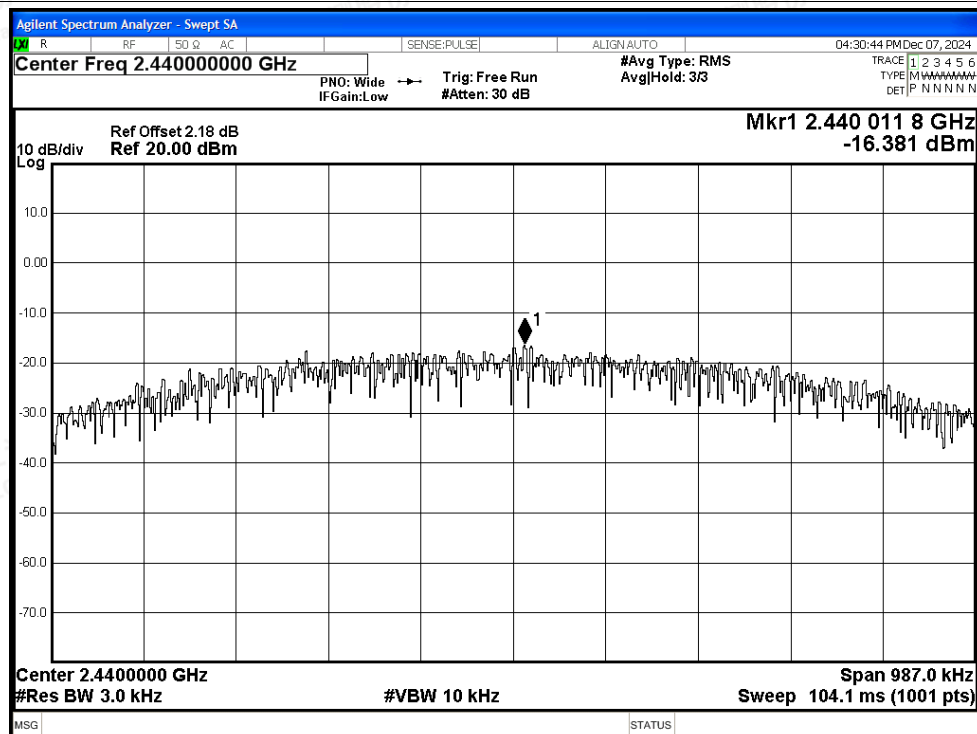


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant2



PSD NVNT BLE 1M 2440MHz Ant2

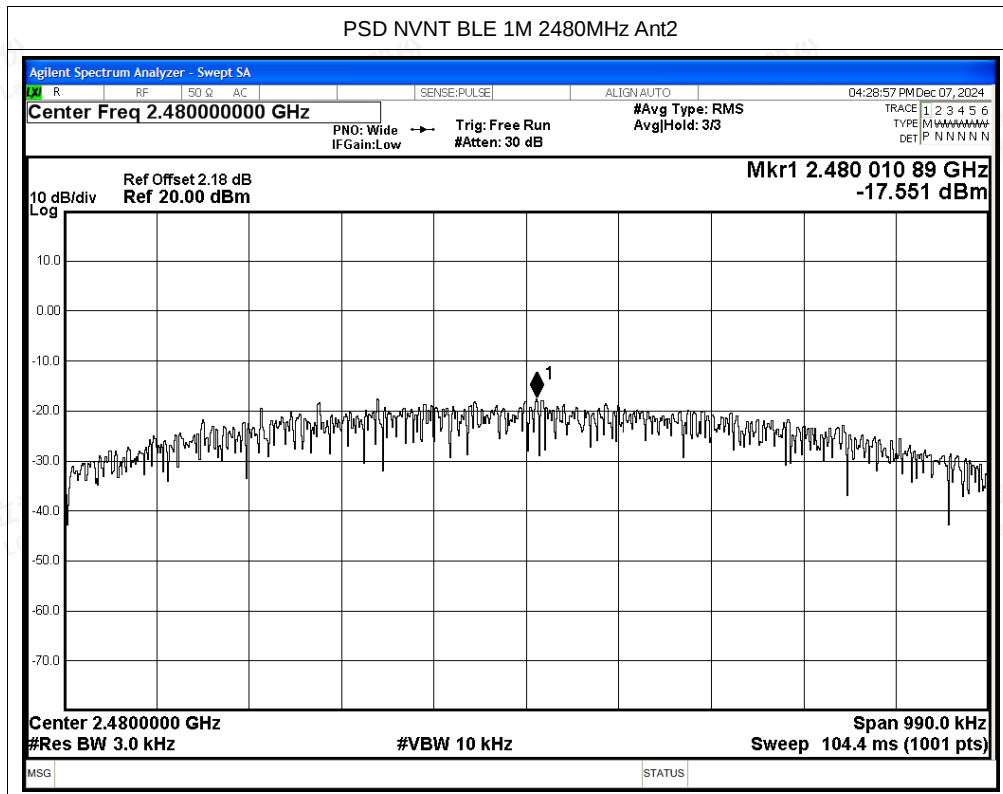


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-56.22	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.87	-20	Pass



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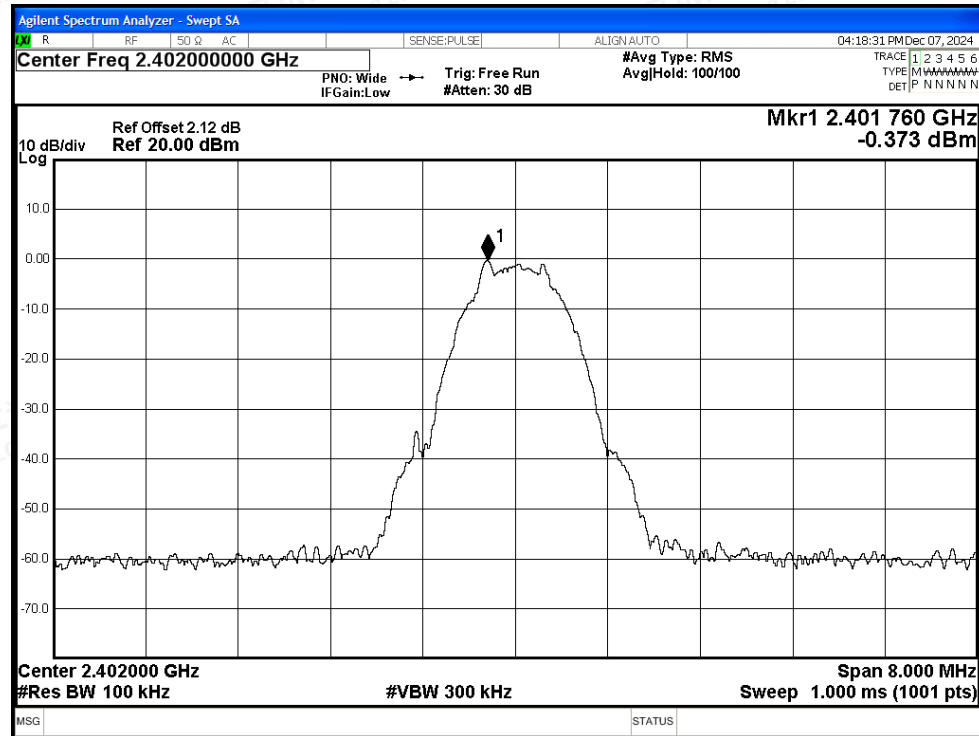
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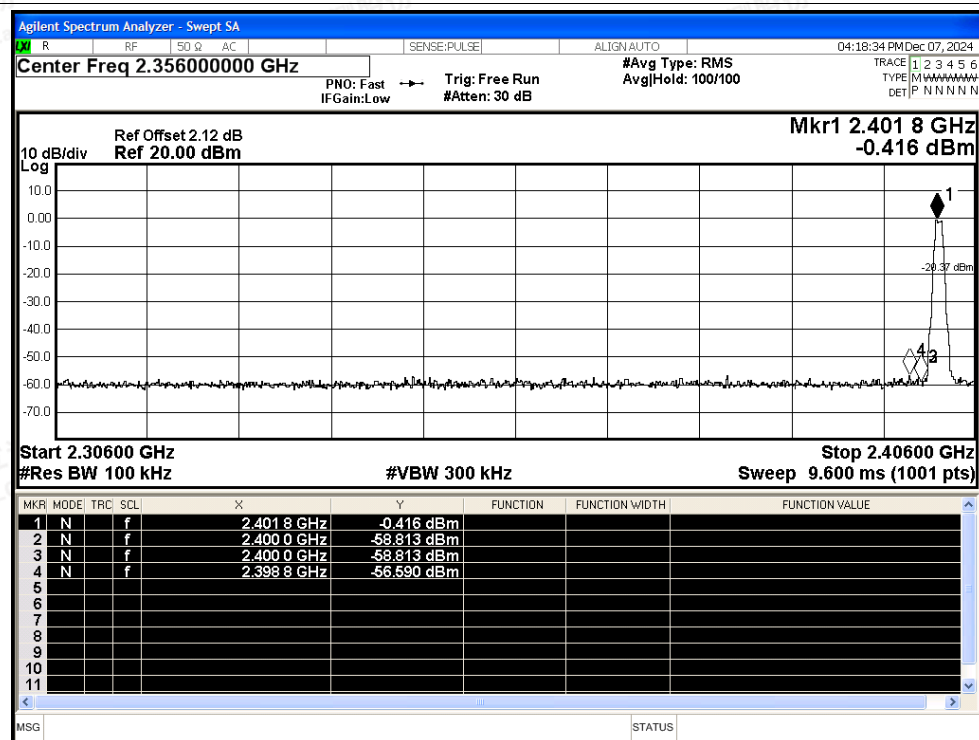


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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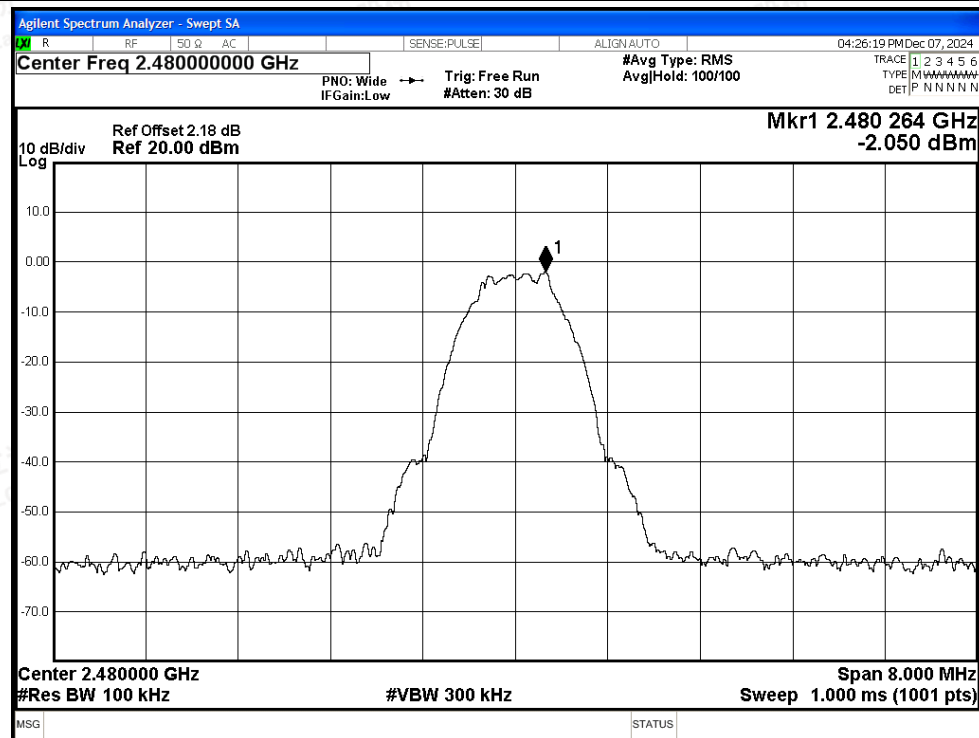
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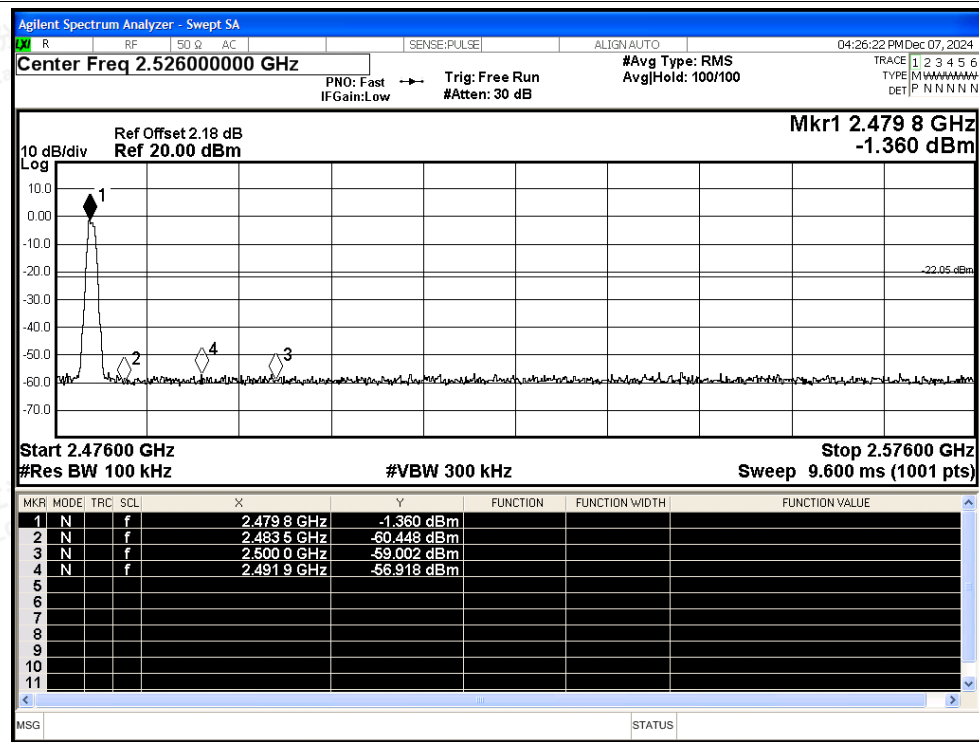
Scan code to check authenticity



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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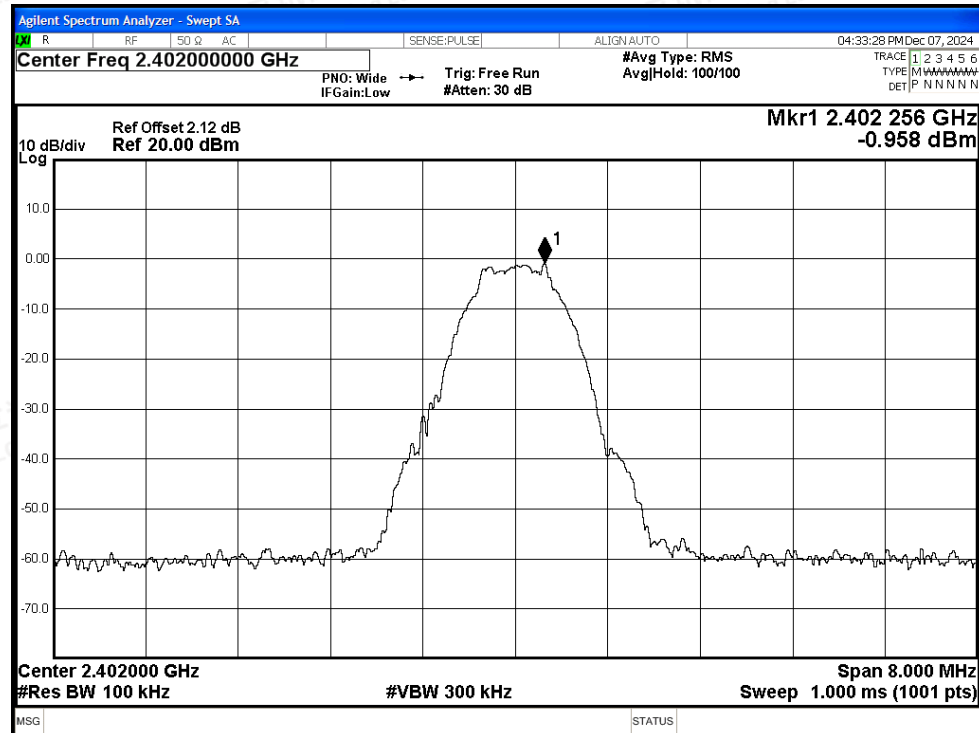
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant2	-56.03	-20	Pass
NVNT	BLE 1M	2480	Ant2	-54.51	-20	Pass



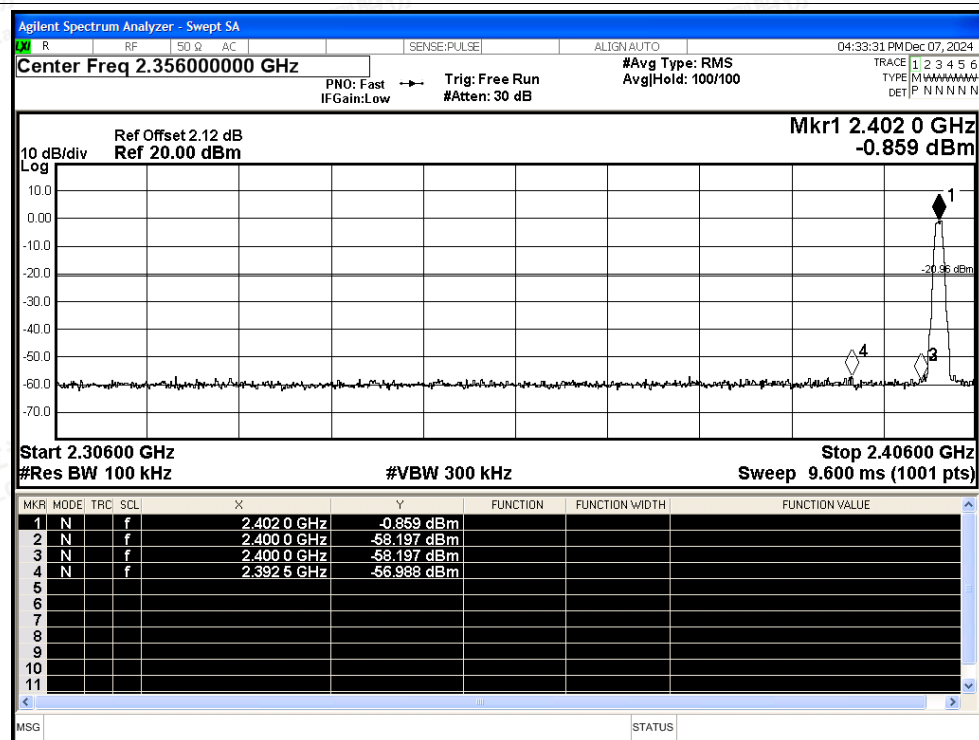


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant2 Ref



Band Edge NVNT BLE 1M 2402MHz Ant2 Emission



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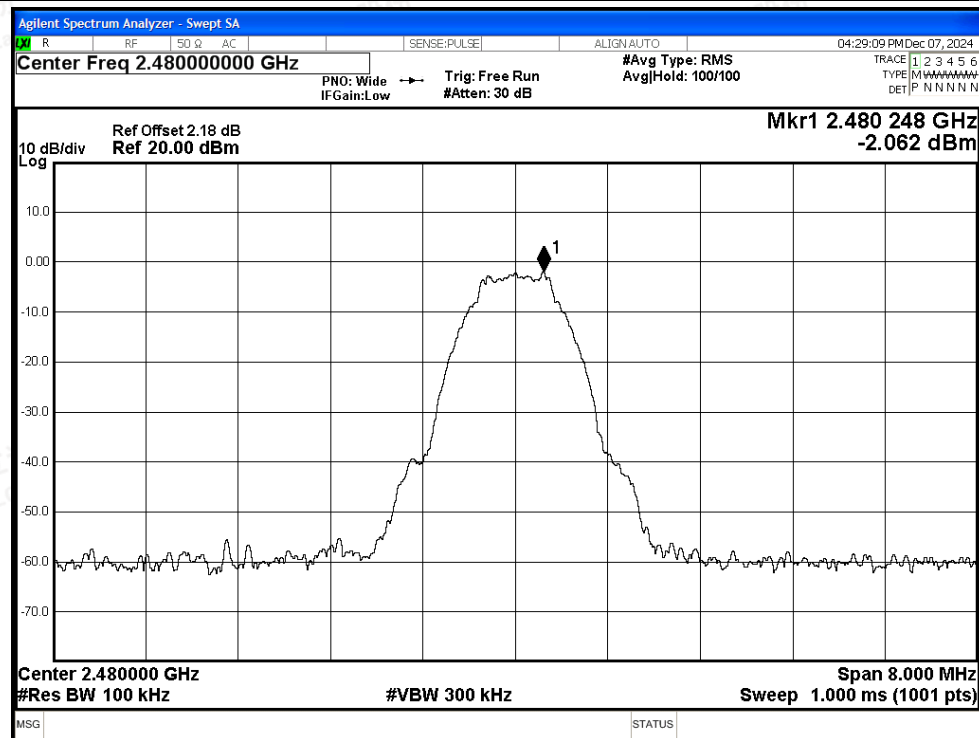
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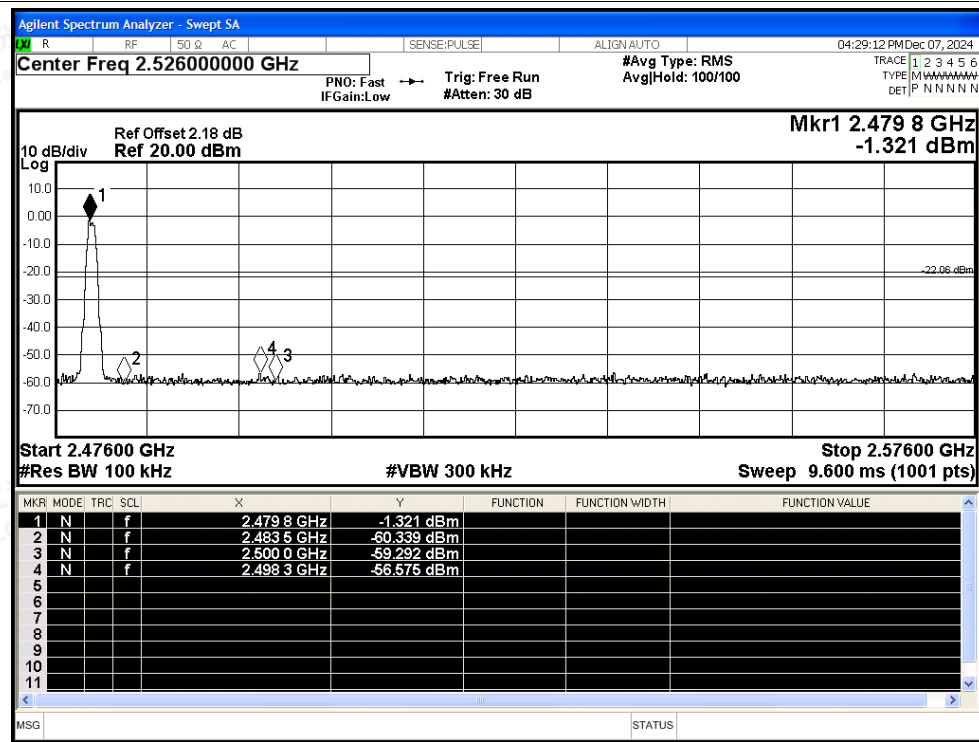
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Band Edge NVNT BLE 1M 2480MHz Ant2 Ref



Band Edge NVNT BLE 1M 2480MHz Ant2 Emission



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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.04	-20	Pass
NVNT	BLE 1M	2440	Ant1	-54.68	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.57	-20	Pass



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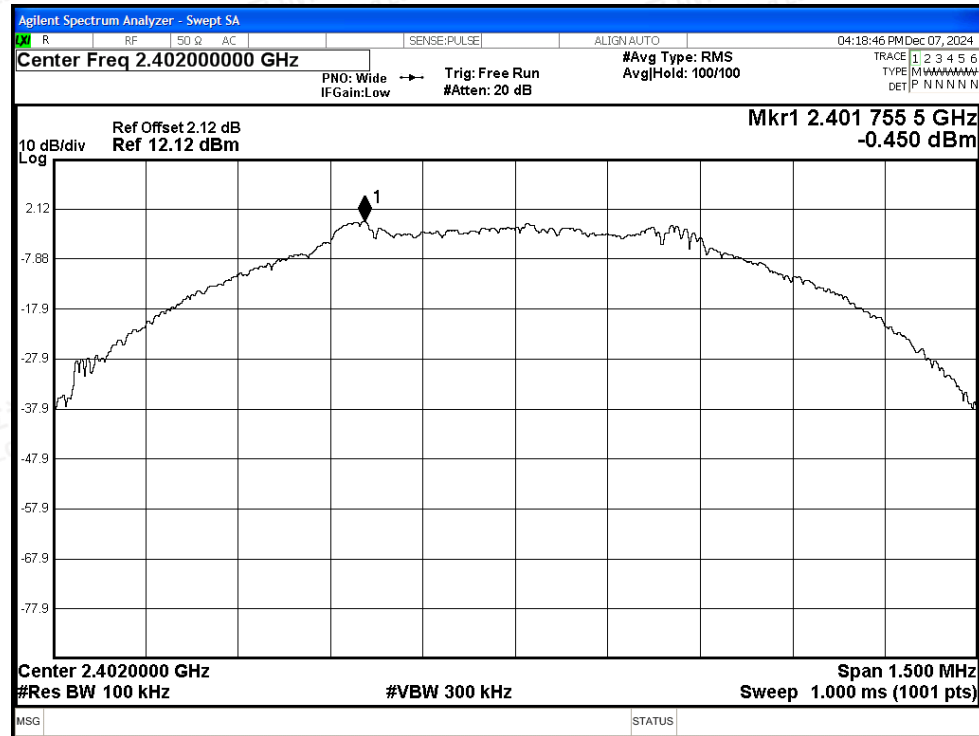
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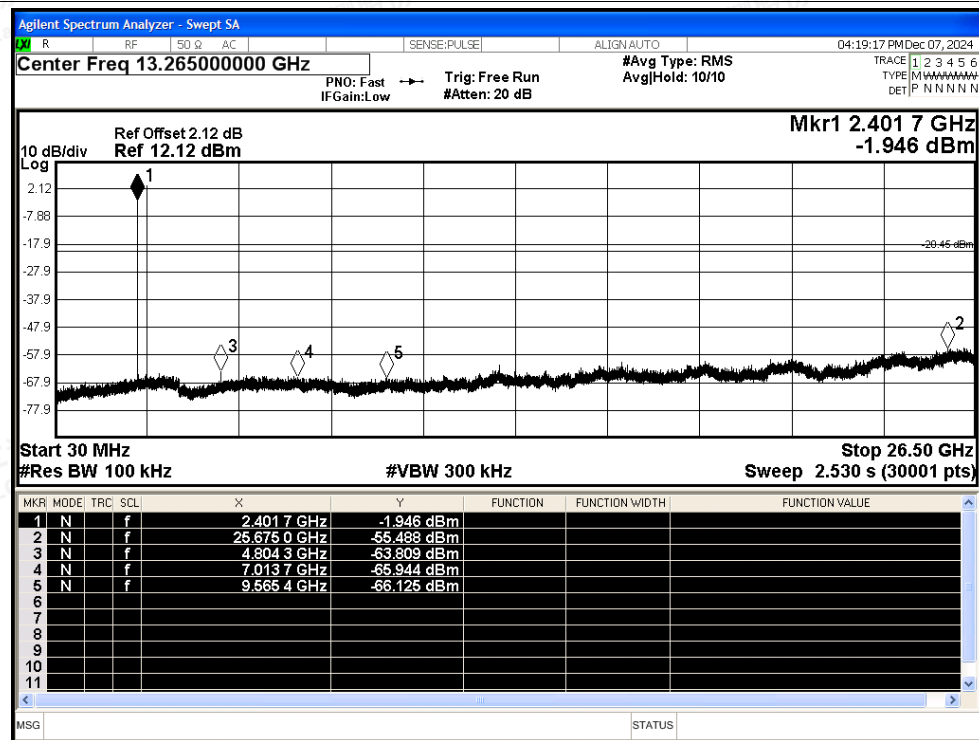


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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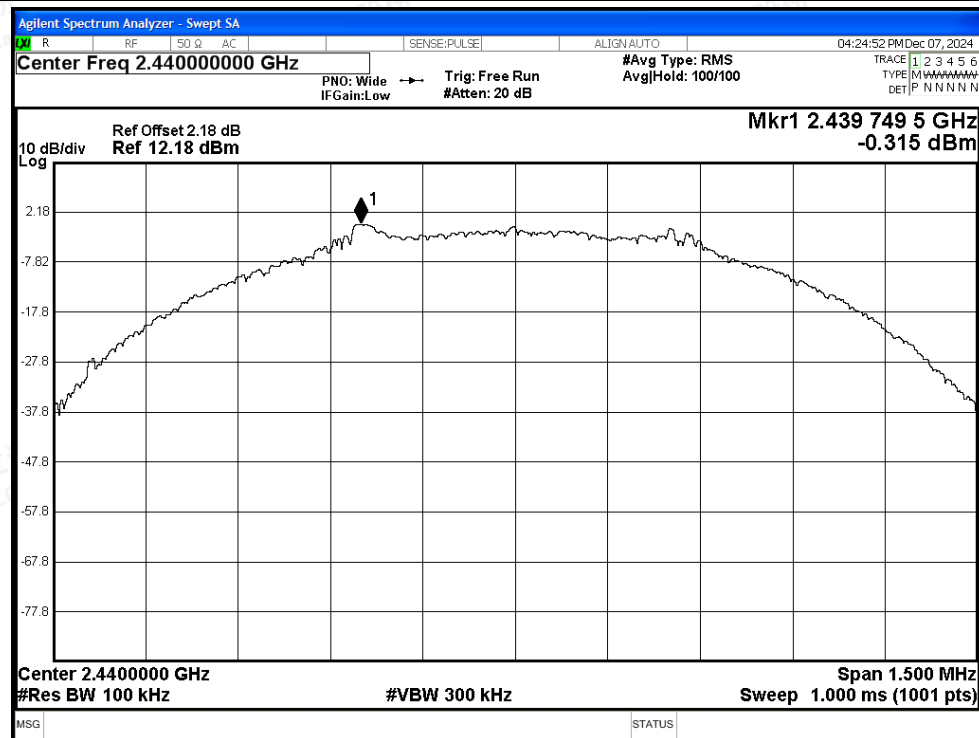
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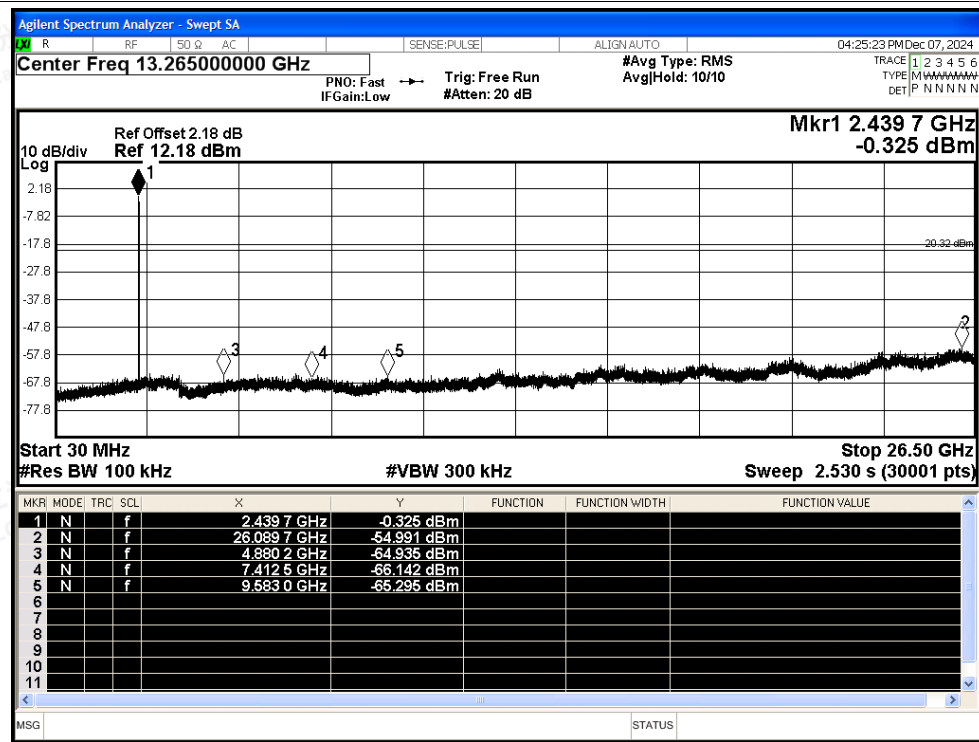
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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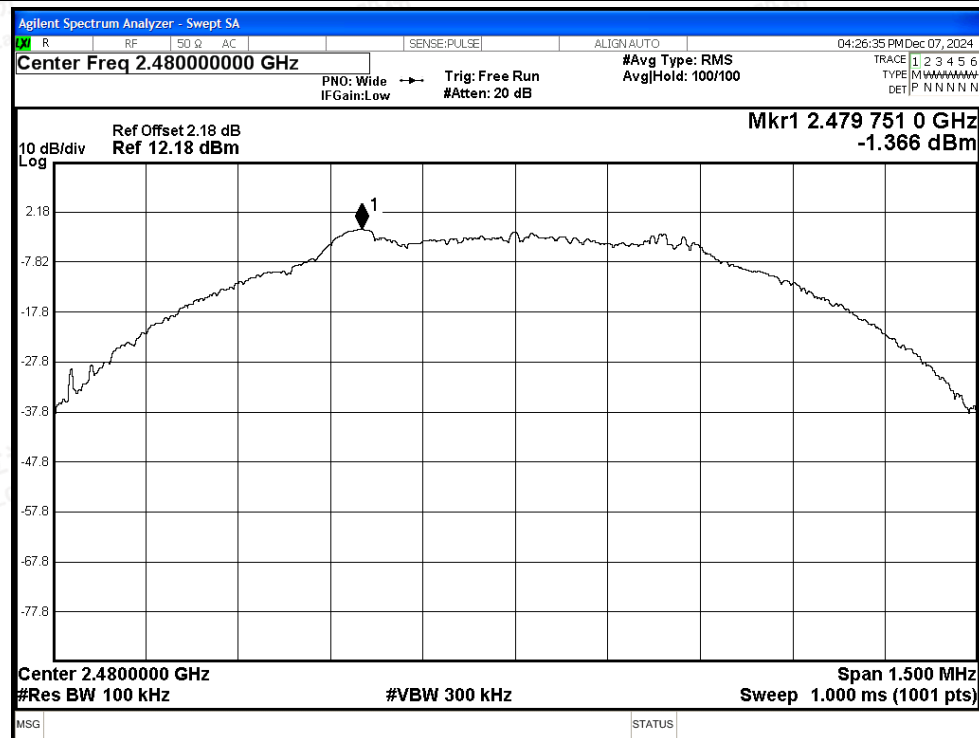
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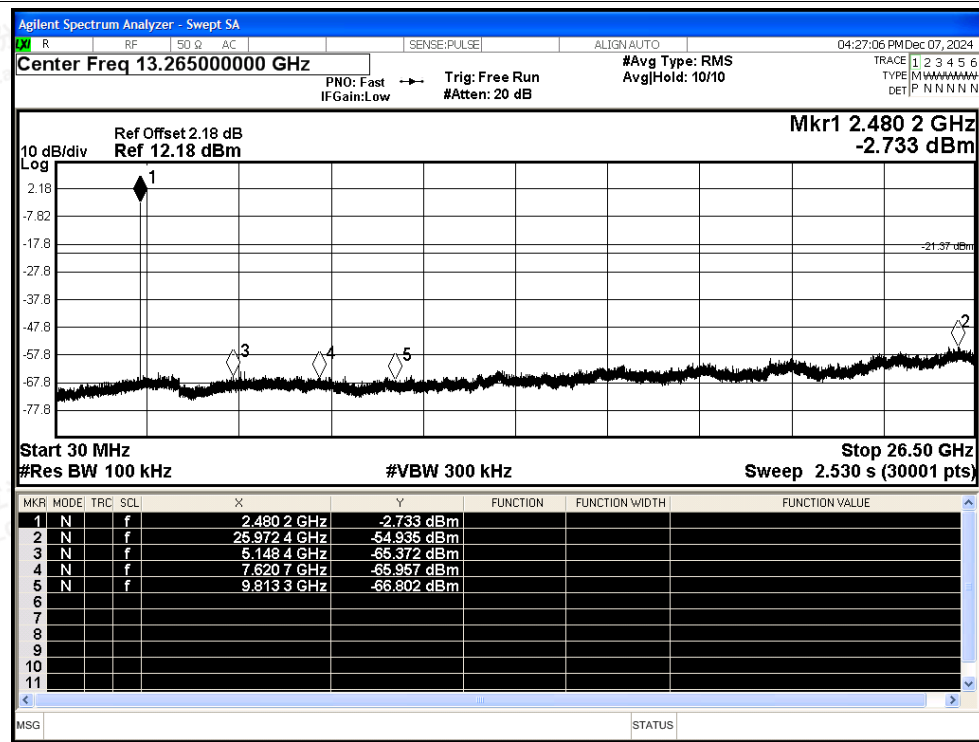
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant2	-54.12	-20	Pass
NVNT	BLE 1M	2440	Ant2	-54.68	-20	Pass
NVNT	BLE 1M	2480	Ant2	-53.59	-20	Pass



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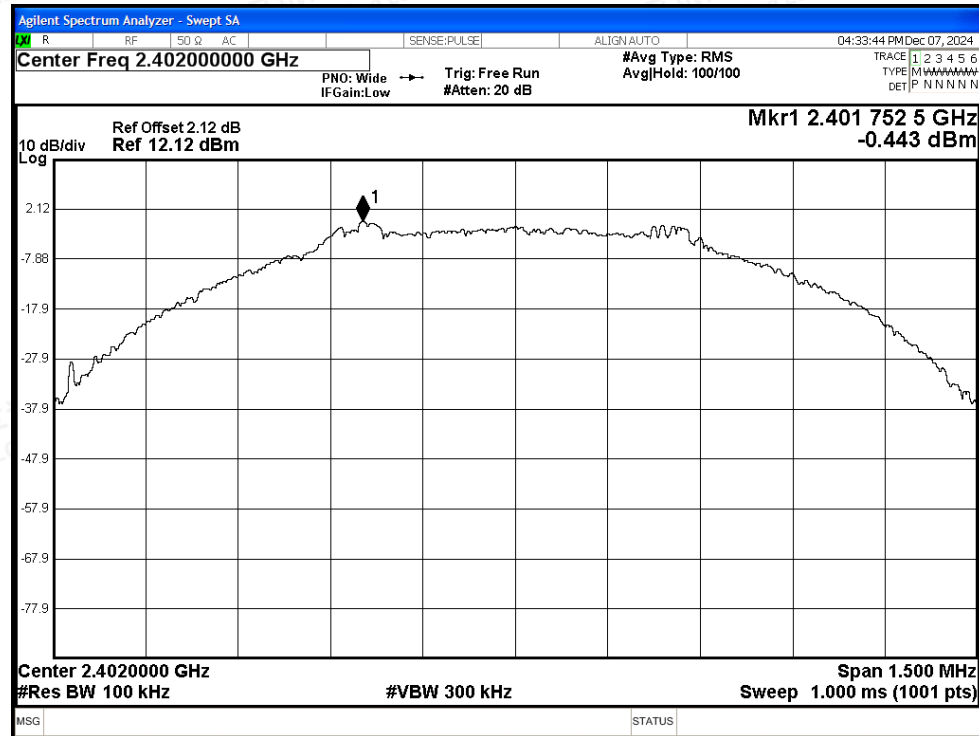
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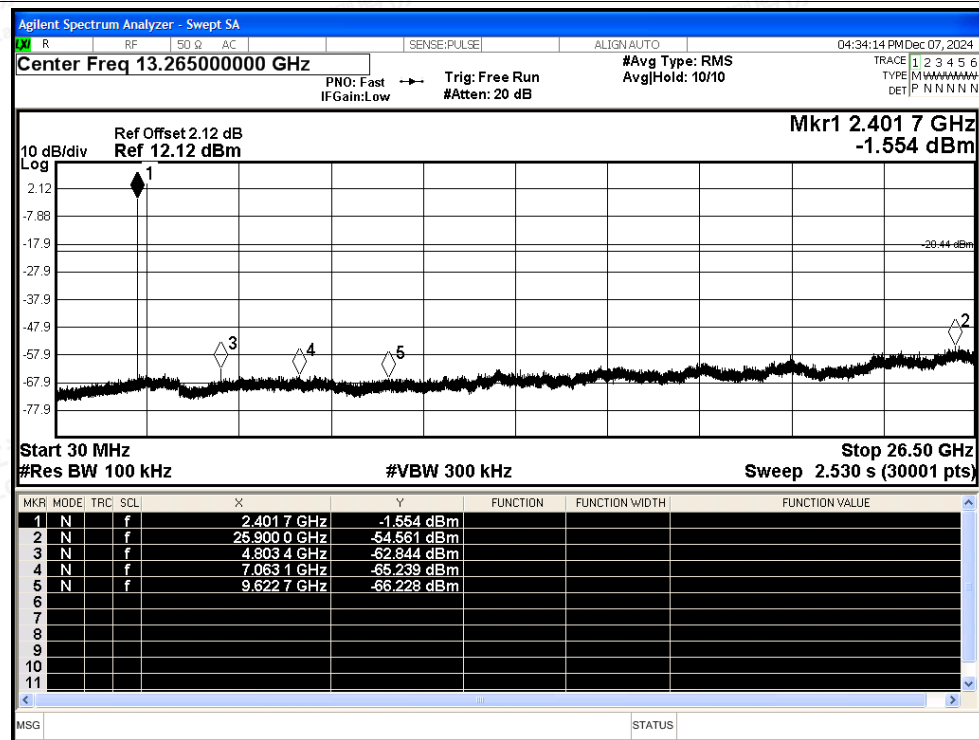


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant2 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant2 Emission



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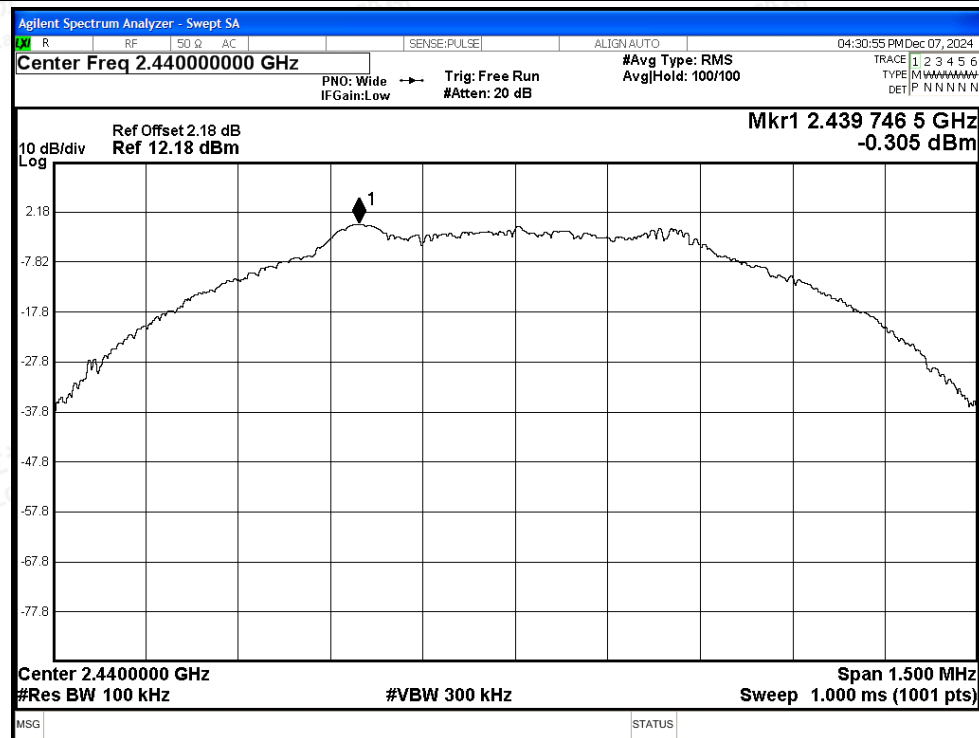
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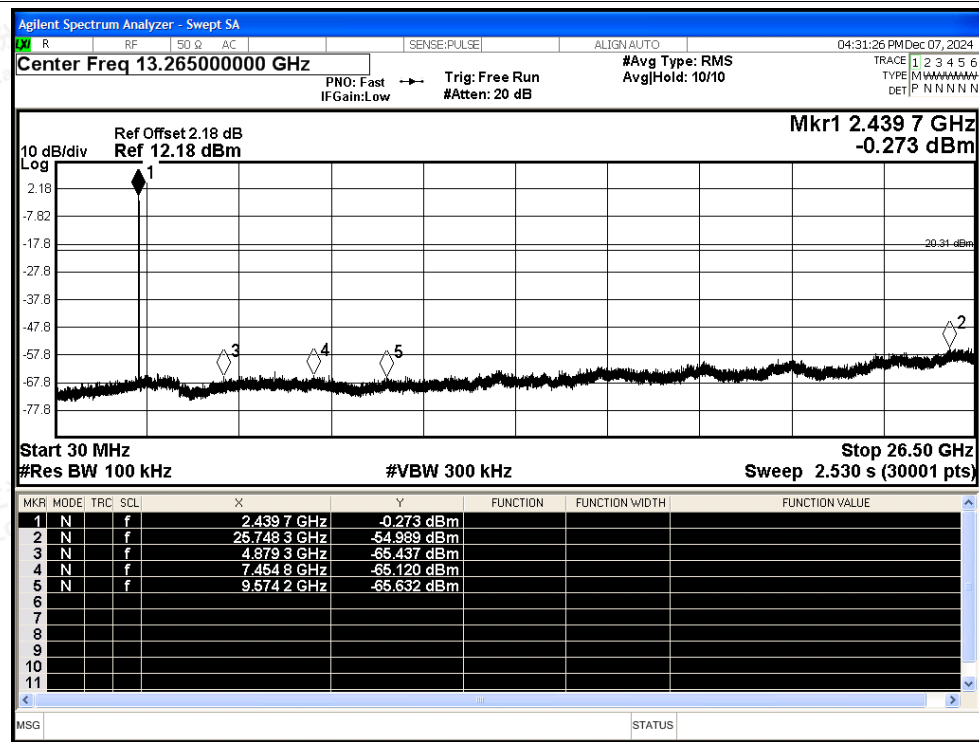
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Tx. Spurious NVNT BLE 1M 2440MHz Ant2 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant2 Emission



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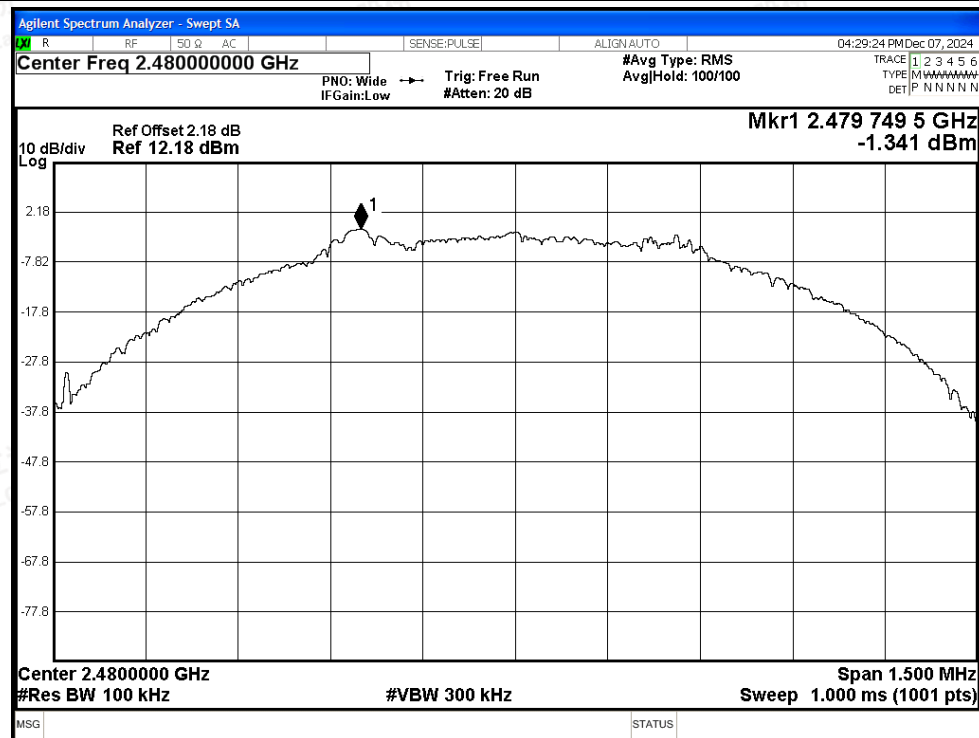
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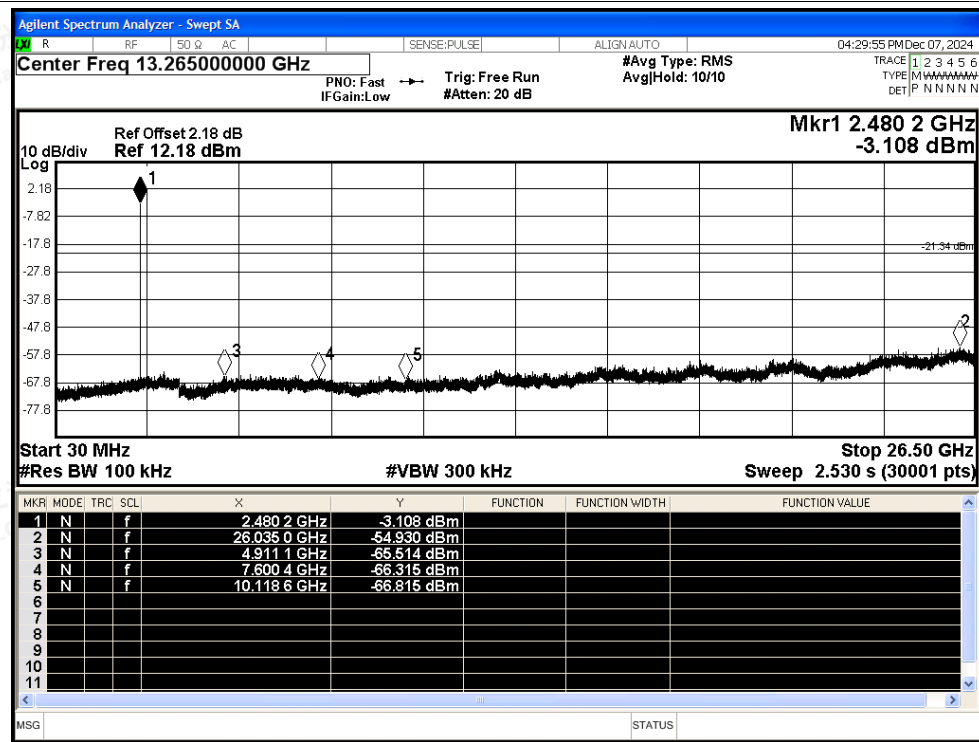
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Tx. Spurious NVNT BLE 1M 2480MHz Ant2 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant2 Emission



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B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant1	87.39	0.59	0.61



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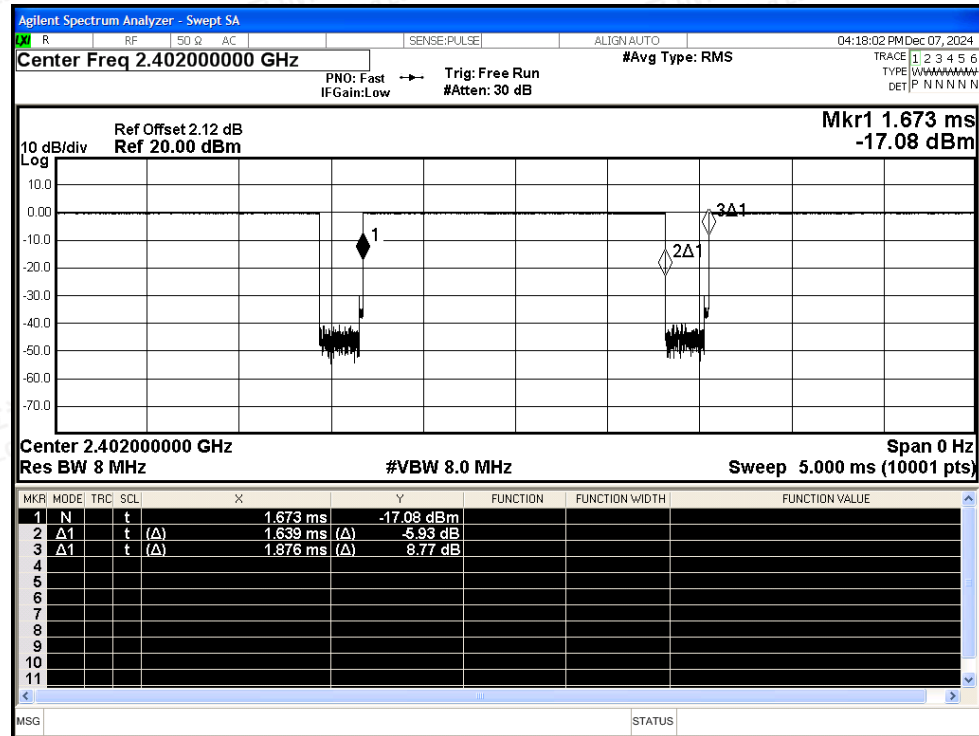
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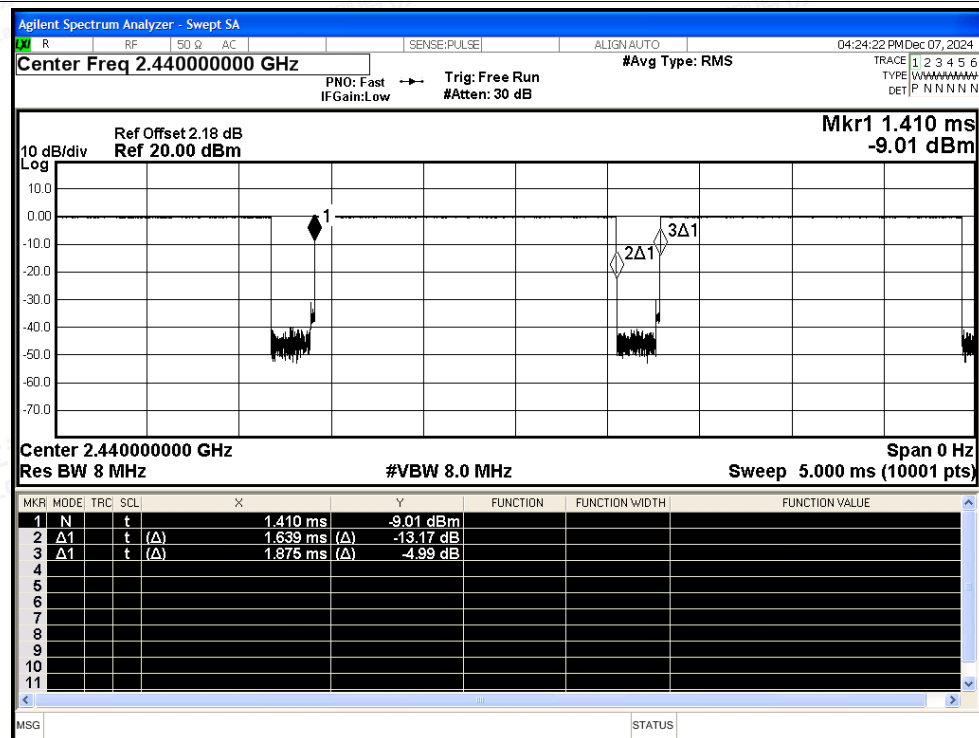


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

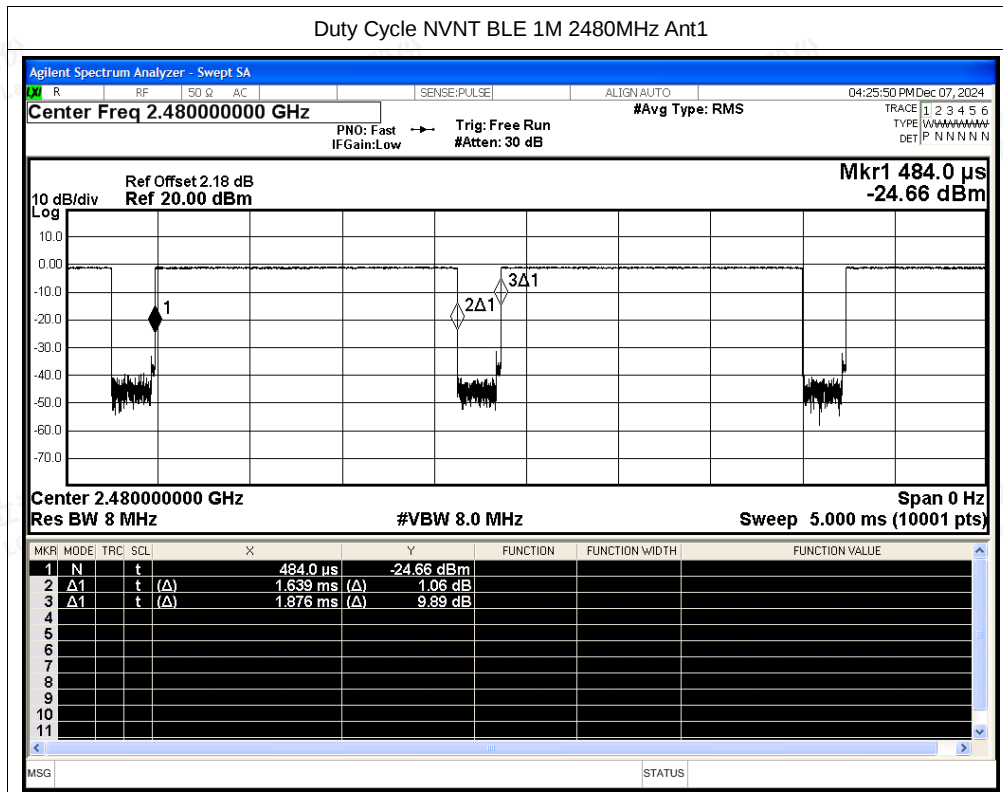


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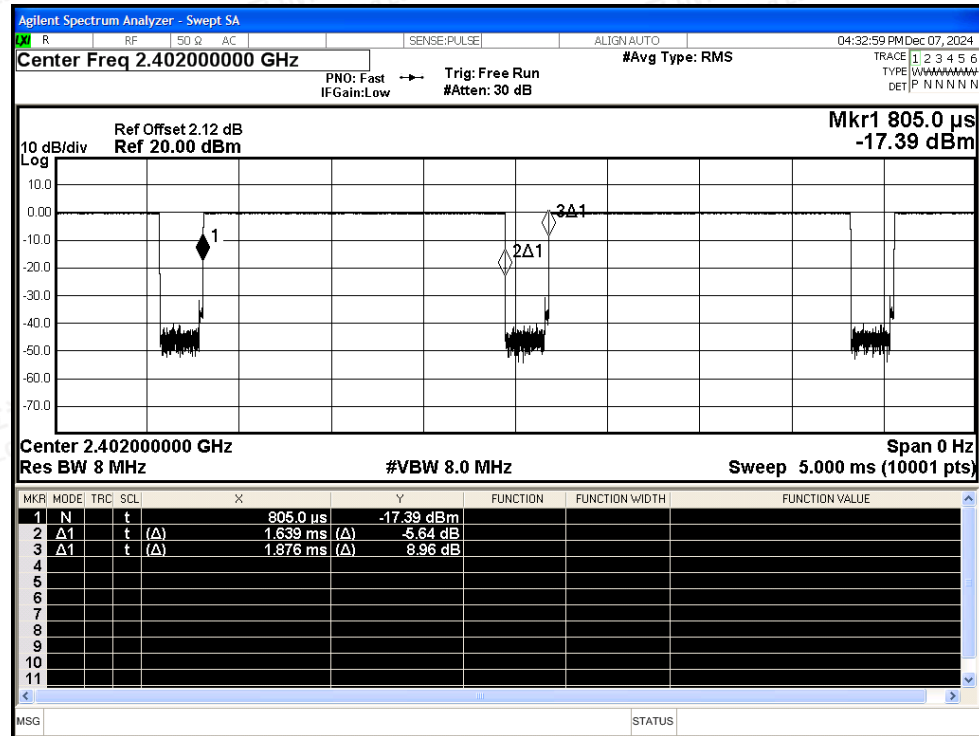
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant2	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant2	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant2	87.39	0.59	0.61



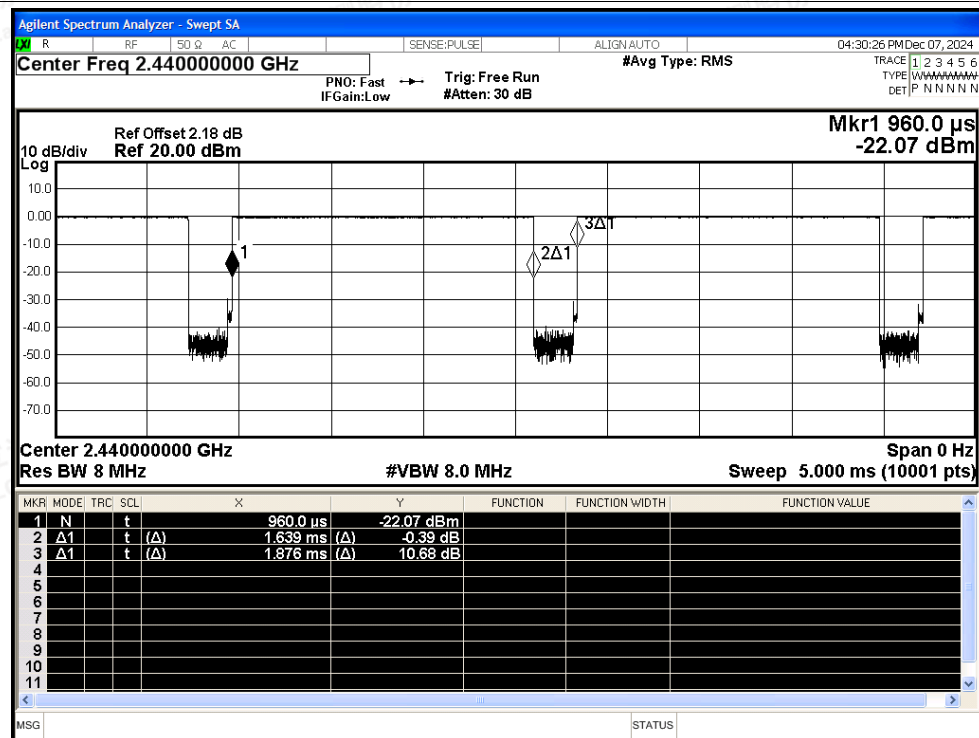


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant2



Duty Cycle NVNT BLE 1M 2440MHz Ant2

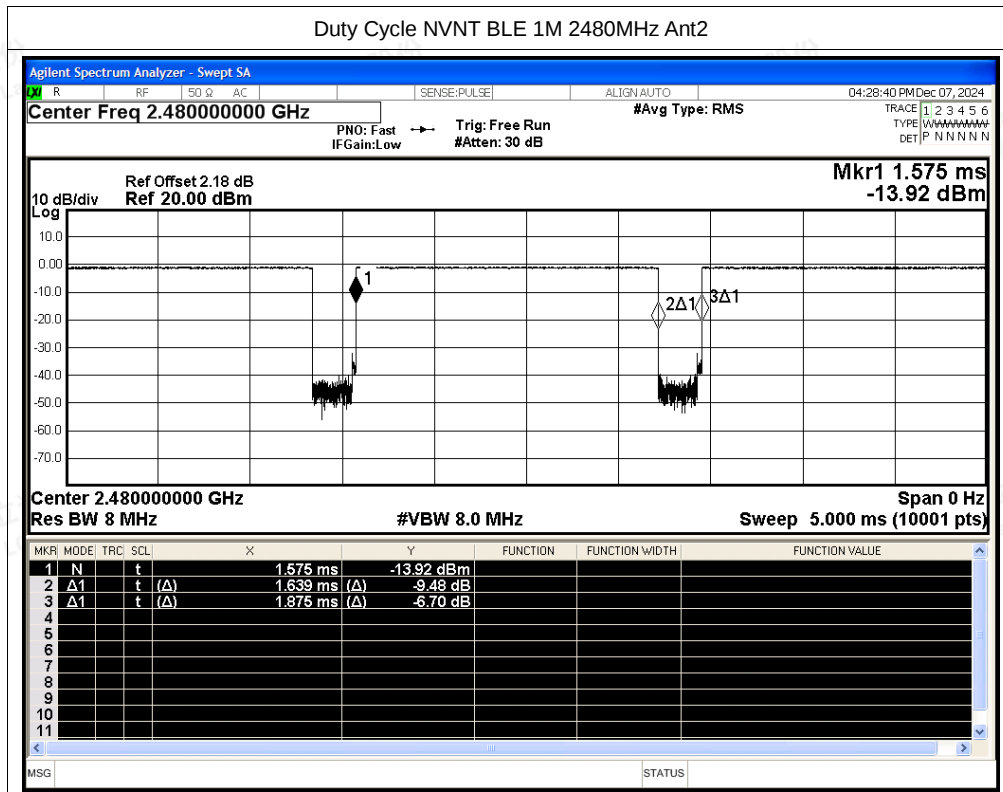


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B.7 Restrict Band

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 1M	2402	Ant1	2310	-50.66	2	-	46.6	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.21	2	0.59	39.64	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2340.336	-47.71	2	-	49.55	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2385.936	-57.58	2	0.59	40.27	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.4	2	-	46.86	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-57.76	2	0.59	40.09	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-50.3	2	-	46.96	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-58.1	2	0.59	39.75	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2484.52	-45.88	2	-	51.38	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2485.552	-57.05	2	0.59	40.8	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.1	2	-	47.16	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-57.77	2	0.59	40.08	Average	54	Pass



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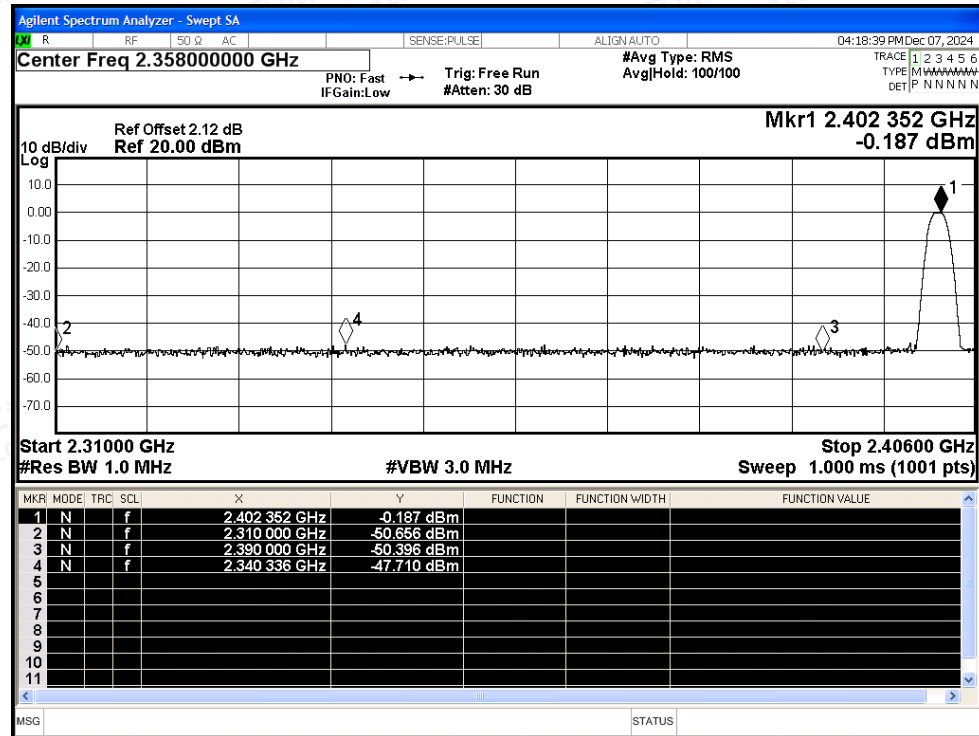
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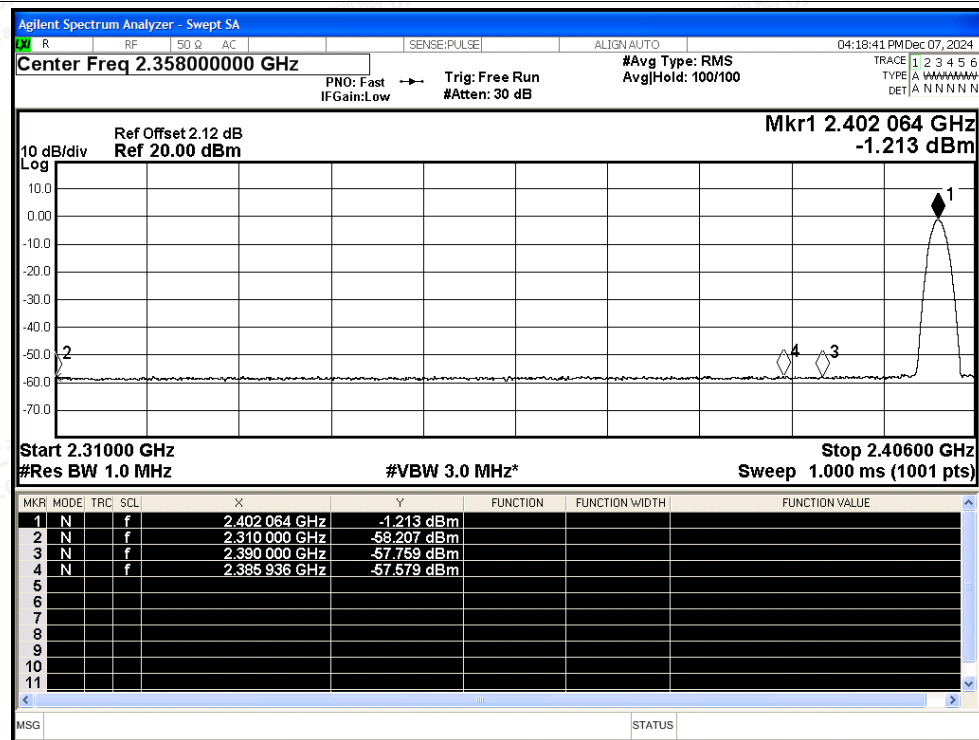


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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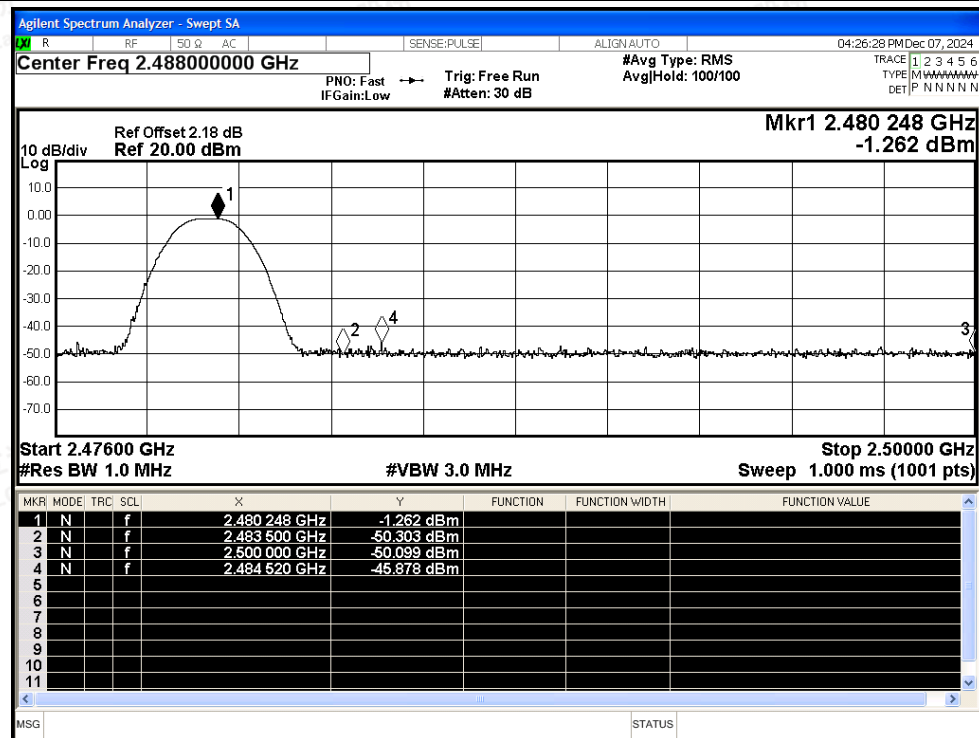
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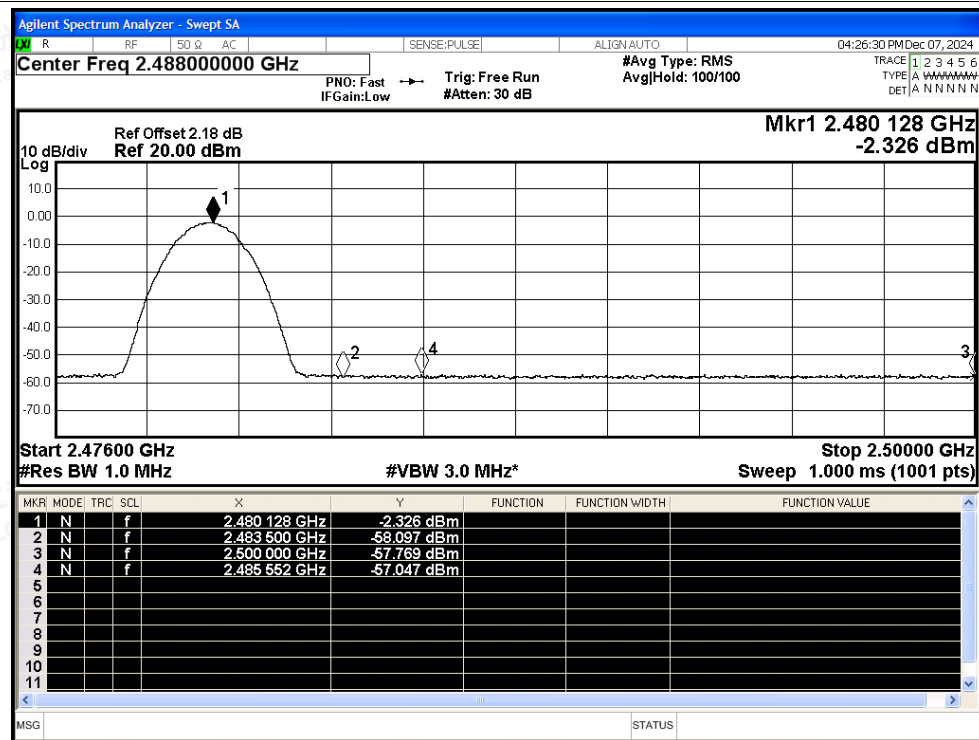
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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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 1M	2402	Ant2	2310	-49.65	2	-	47.61	Peak	74	Pass
NVNT	BLE 1M	2402	Ant2	2310	-58.46	2	0.59	39.39	Average	54	Pass
NVNT	BLE 1M	2402	Ant2	2330.064	-47.22	2	-	50.04	Peak	74	Pass
NVNT	BLE 1M	2402	Ant2	2379.12	-57.46	2	0.59	40.39	Average	54	Pass
NVNT	BLE 1M	2402	Ant2	2390	-50.02	2	-	47.24	Peak	74	Pass
NVNT	BLE 1M	2402	Ant2	2390	-58.5	2	0.59	39.35	Average	54	Pass
NVNT	BLE 1M	2480	Ant2	2483.5	-49.52	2	-	47.74	Peak	74	Pass
NVNT	BLE 1M	2480	Ant2	2483.5	-57.5	2	0.59	40.35	Average	54	Pass
NVNT	BLE 1M	2480	Ant2	2487.256	-47.07	2	-	50.19	Peak	74	Pass
NVNT	BLE 1M	2480	Ant2	2490.928	-57.04	2	0.59	40.81	Average	54	Pass
NVNT	BLE 1M	2480	Ant2	2500	-49.38	2	-	47.88	Peak	74	Pass
NVNT	BLE 1M	2480	Ant2	2500	-57.53	2	0.59	40.32	Average	54	Pass



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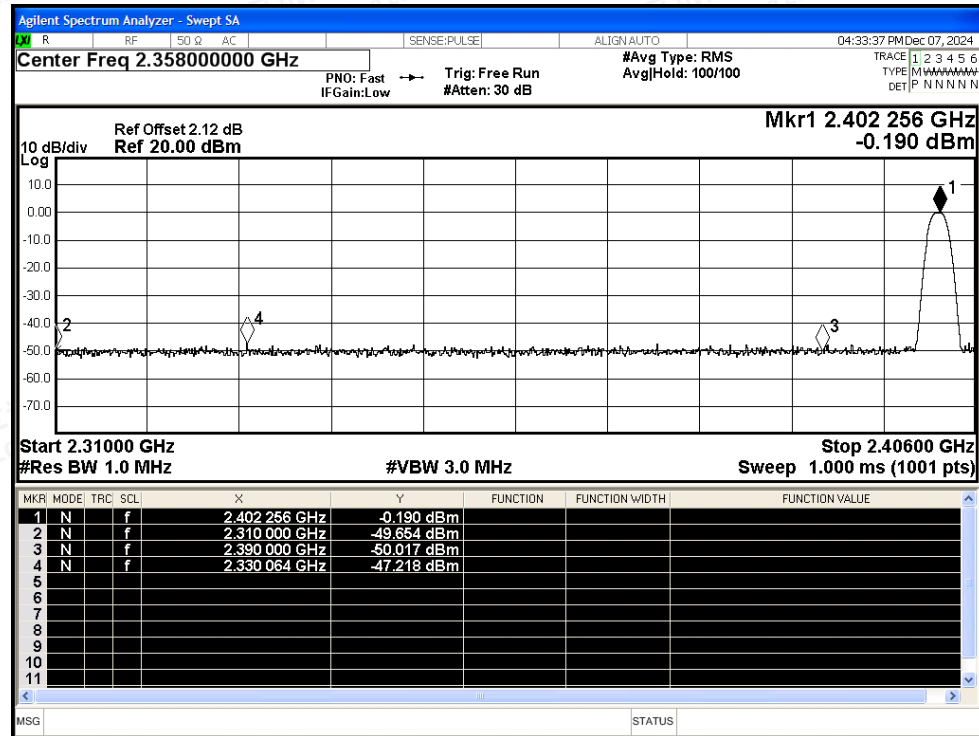
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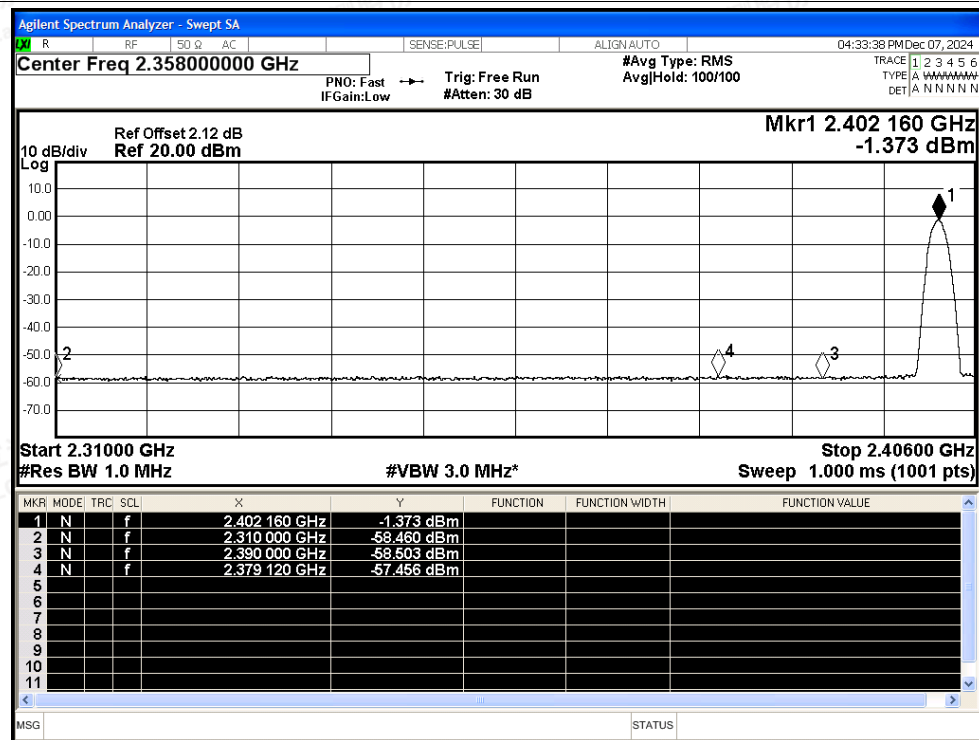


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant2 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant2 Average



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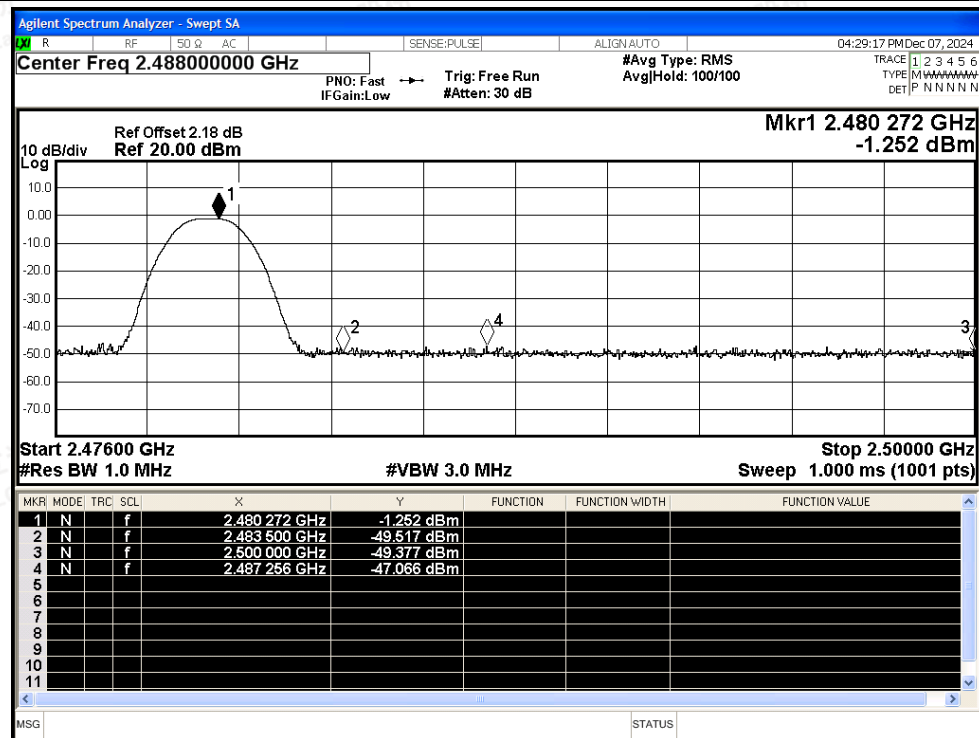
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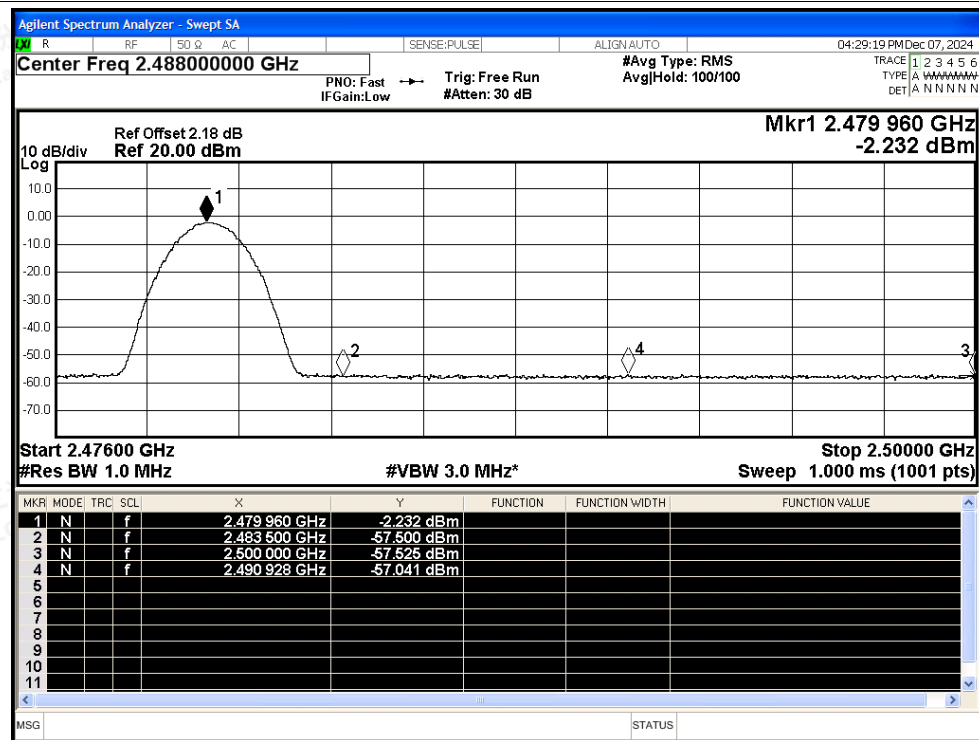
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Restrict Band NVNT BLE 1M 2480MHz Ant2 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant2 Average



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Condition	Mode	Frequency (MHz)	E (dBuV/m)			Detector	Limit (dBuV/m)	Verdict
			Ant1	Ant2	Ant1+Ant2			
NVNT	BLE 1M	2402	46.6	47.61	53.14	Peak	74	Pass
NVNT	BLE 1M	2402	39.64	39.39	45.54	Average	54	Pass
NVNT	BLE 1M	2402	49.55	50.04	55.82	Peak	74	Pass
NVNT	BLE 1M	2402	40.27	40.39	46.35	Average	54	Pass
NVNT	BLE 1M	2402	46.86	47.24	53.07	Peak	74	Pass
NVNT	BLE 1M	2402	40.09	39.35	45.75	Average	54	Pass
NVNT	BLE 1M	2480	46.96	47.74	53.38	Peak	74	Pass
NVNT	BLE 1M	2480	39.75	40.35	46.08	Average	54	Pass
NVNT	BLE 1M	2480	51.38	50.19	56.83	Peak	74	Pass
NVNT	BLE 1M	2480	40.8	40.81	46.83	Average	54	Pass
NVNT	BLE 1M	2480	47.16	47.88	53.55	Peak	74	Pass
NVNT	BLE 1M	2480	40.08	40.32	46.22	Average	54	Pass



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