



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Portable Power Station

Test Model: CP2500

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li huan



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A.1 6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	6 dB Bandwidth (MHz)	Limit 6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant	0.693	0.5	Pass
NVNT	BLE 1M	2440	Ant	0.676	0.5	Pass
NVNT	BLE 1M	2480	Ant	0.662	0.5	Pass
NVNT	BLE 2M	2402	Ant	1.326	0.5	Pass
NVNT	BLE 2M	2440	Ant	1.357	0.5	Pass
NVNT	BLE 2M	2480	Ant	1.402	0.5	Pass

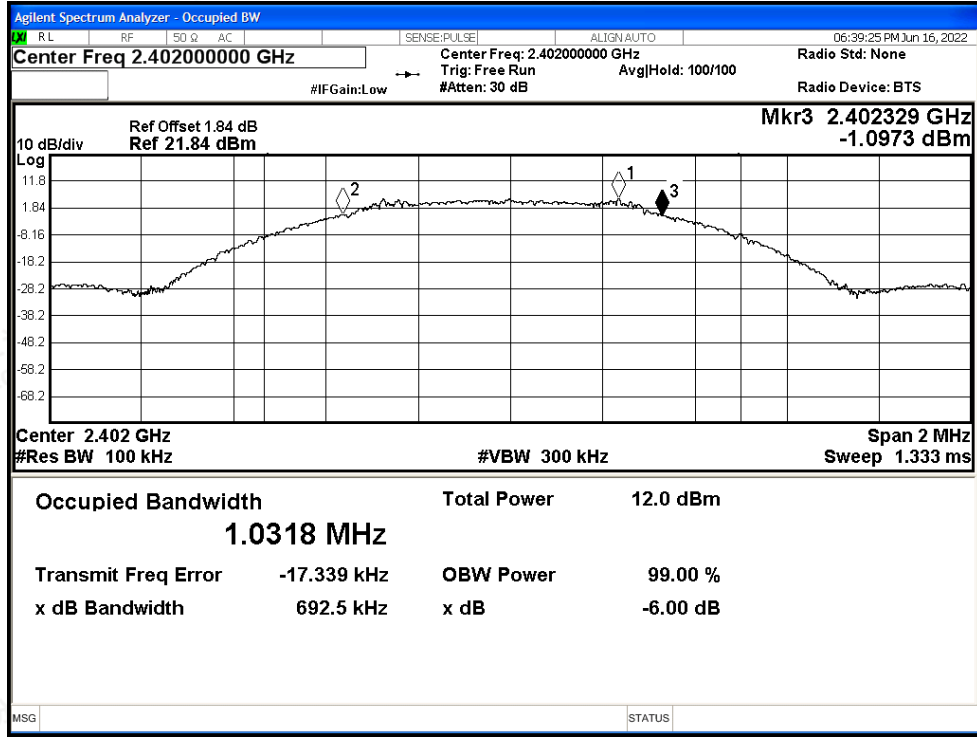


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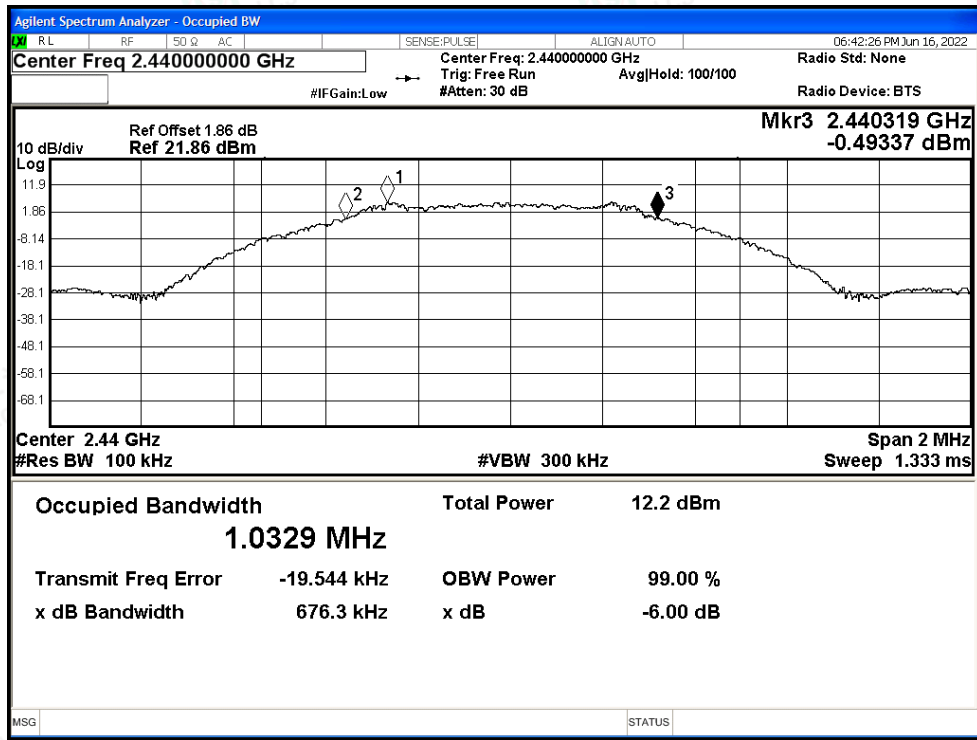


Test Graphs

6dB Bandwidth NVNT BLE 1M 2402MHz Ant

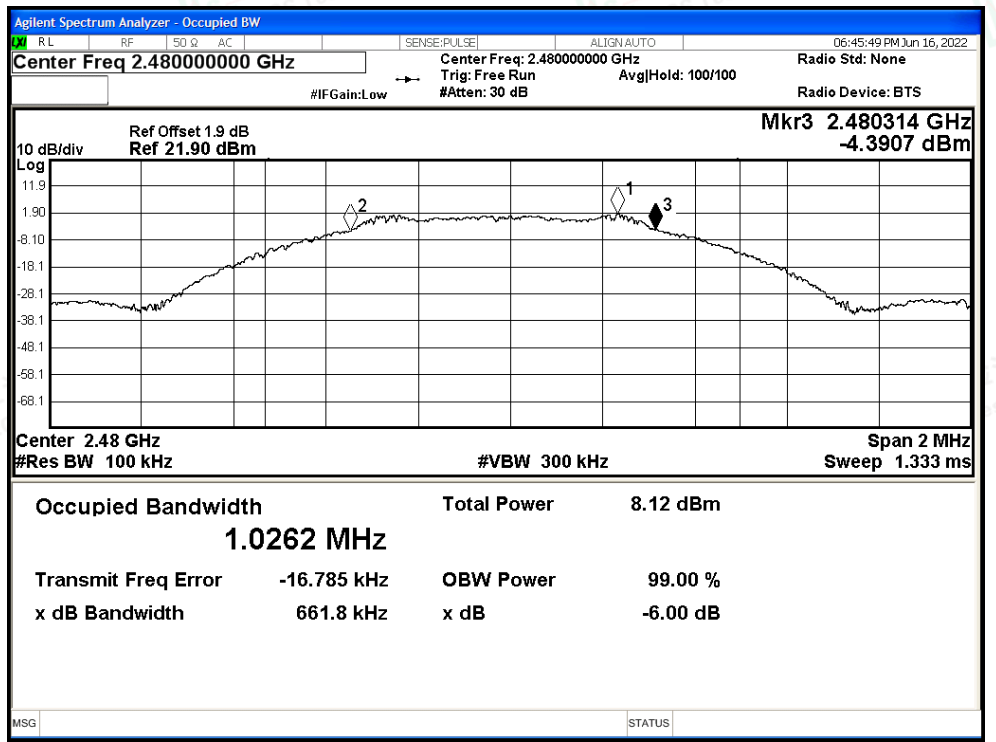


6dB Bandwidth NVNT BLE 1M 2440MHz Ant



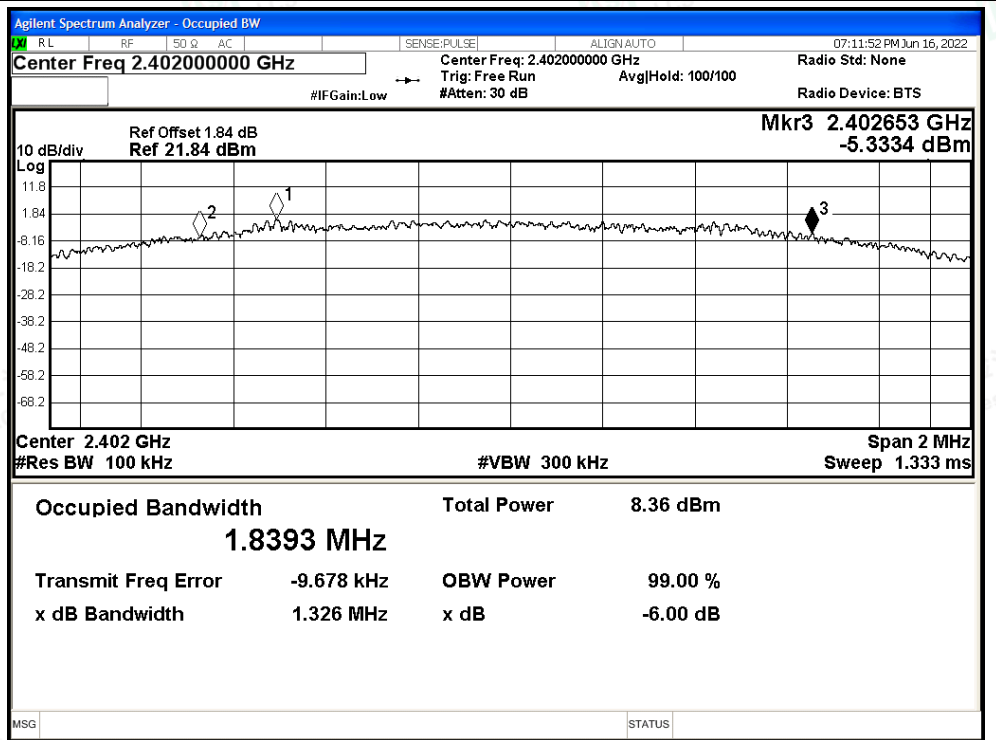


6dB Bandwidth NVNT BLE 1M 2480MHz Ant



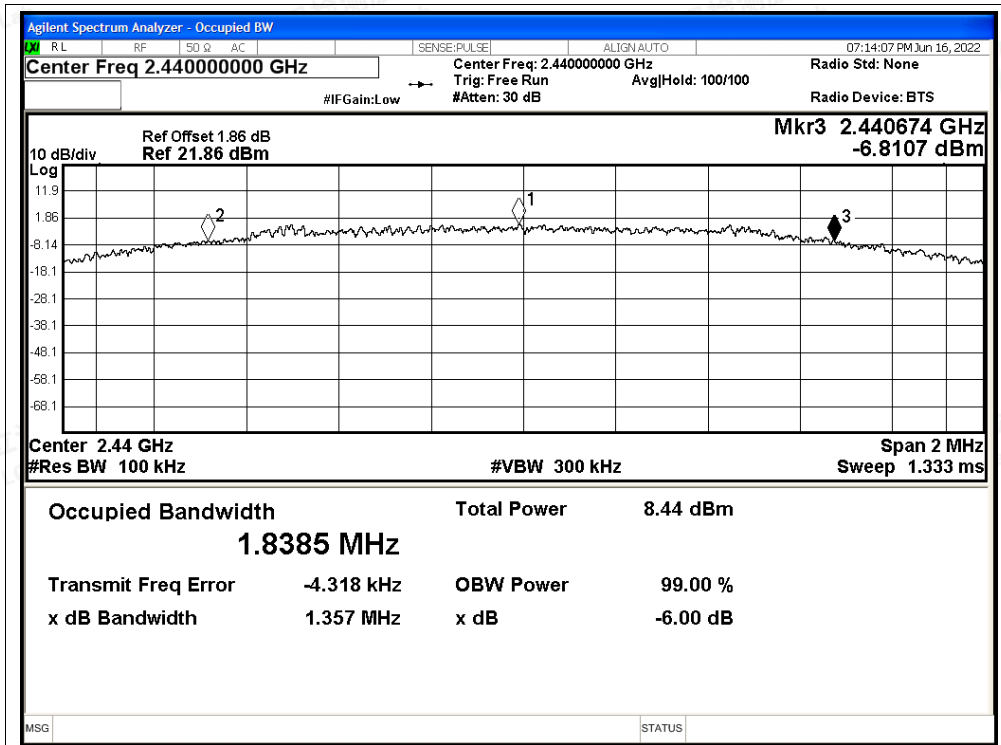
Test Graphs

6dB Bandwidth NVNT BLE 2M 2402MHz Ant

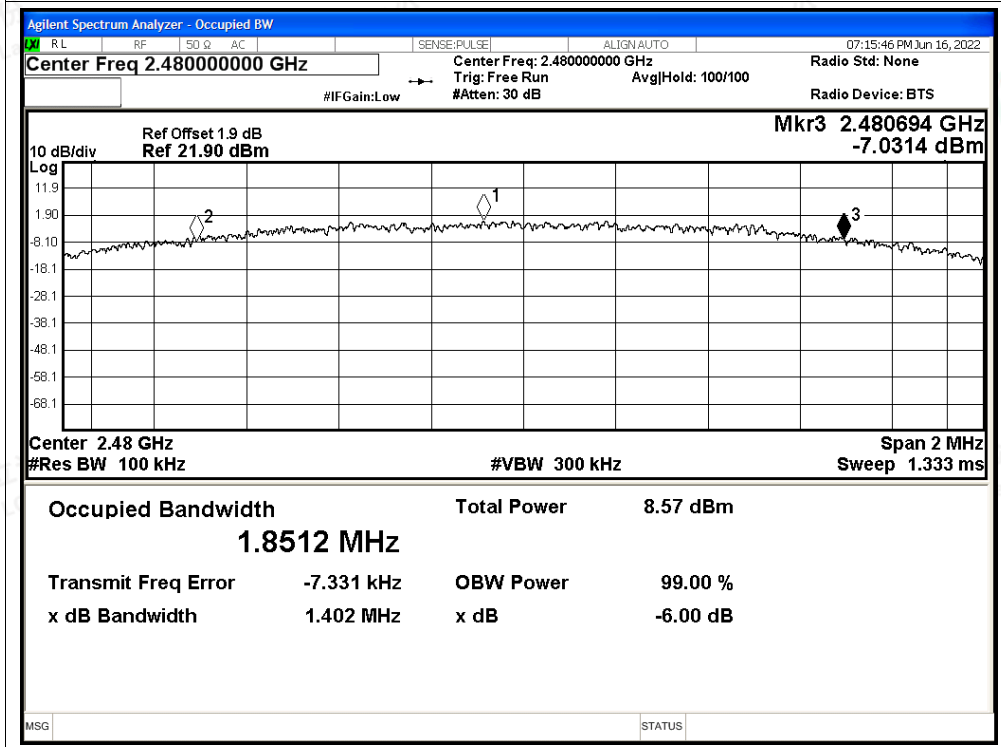


6dB Bandwidth NVNT BLE 2M 2440MHz Ant





6dB Bandwidth NVNT BLE 2M 2480MHz Ant





A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant	1.90	30	Pass
NVNT	BLE 1M	2440	Ant	1.95	30	Pass
NVNT	BLE 1M	2480	Ant	2.02	30	Pass
NVNT	BLE 2M	2402	Ant	1.89	30	Pass
NVNT	BLE 2M	2440	Ant	1.91	30	Pass
NVNT	BLE 2M	2480	Ant	1.98	30	Pass

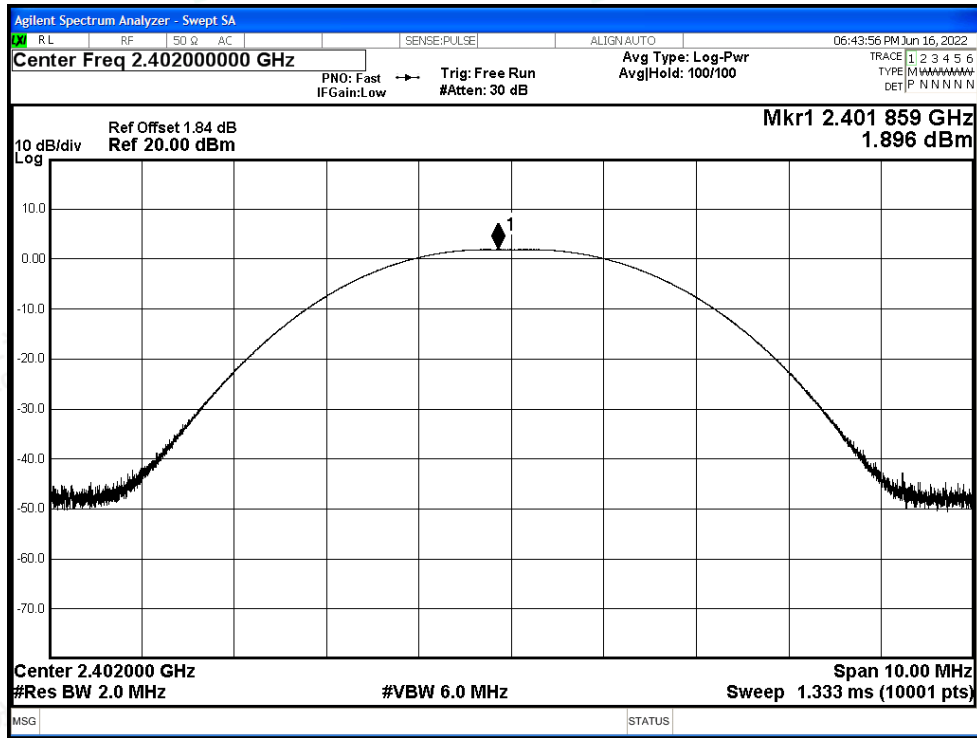


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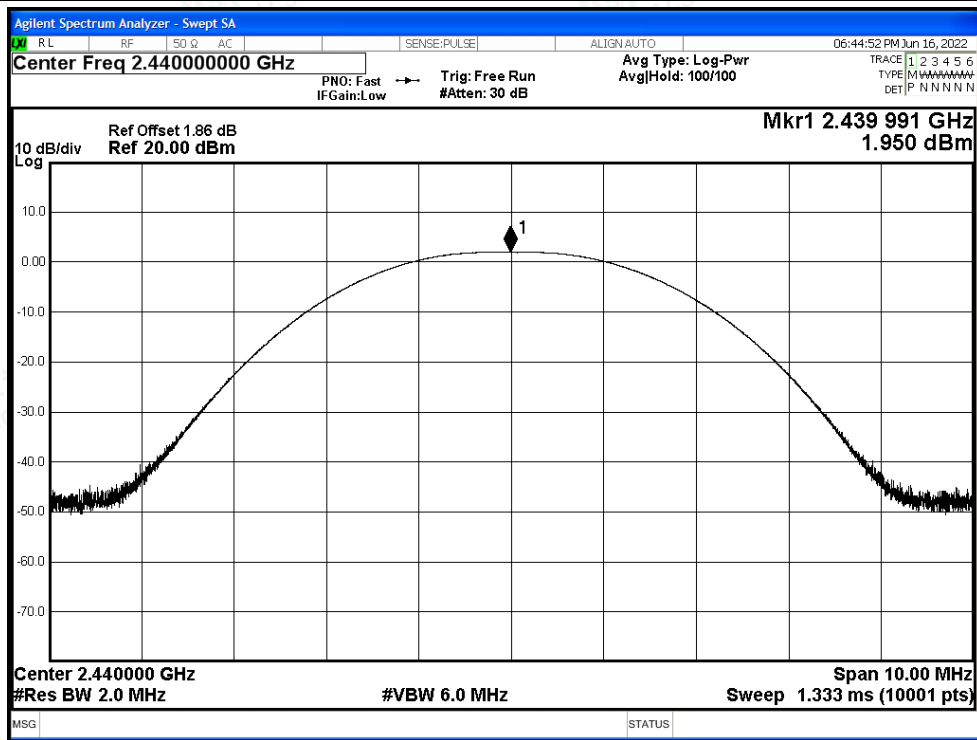


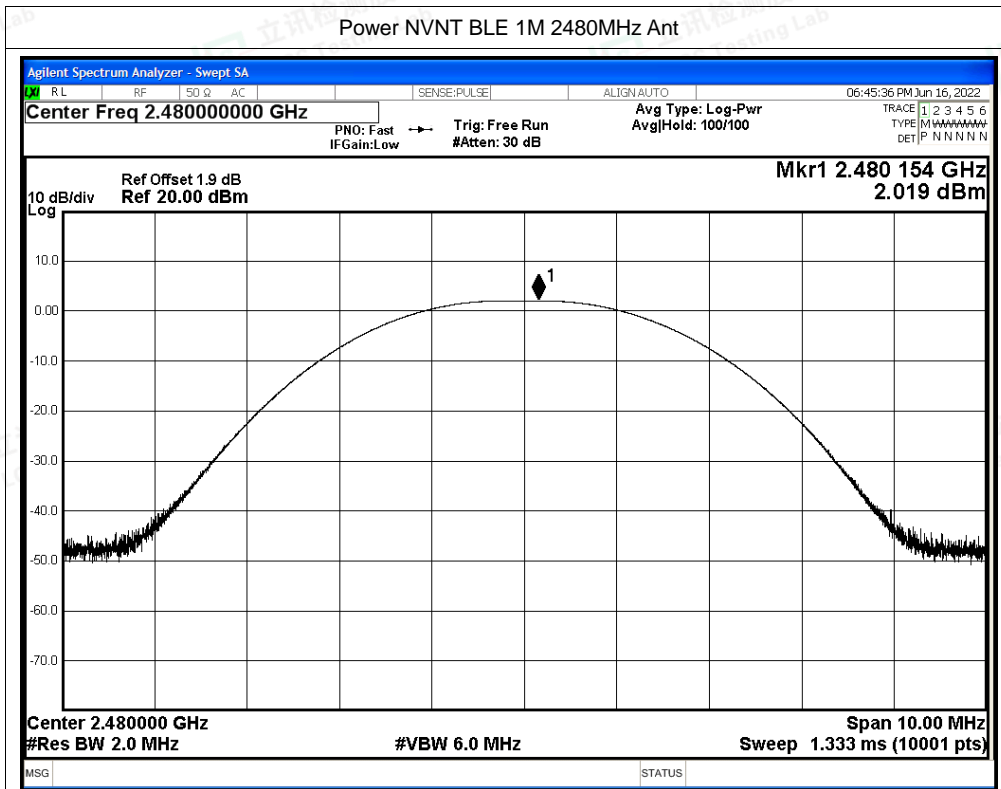
Test Graphs

Power NVNT BLE 1M 2402MHz Ant

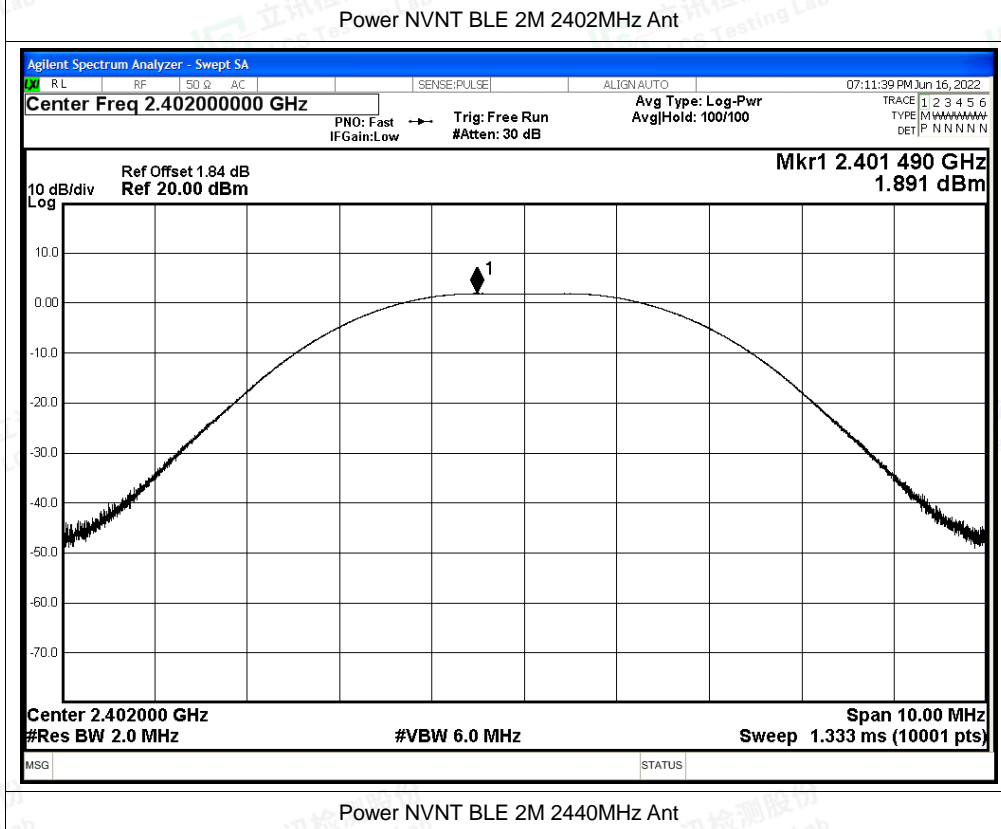


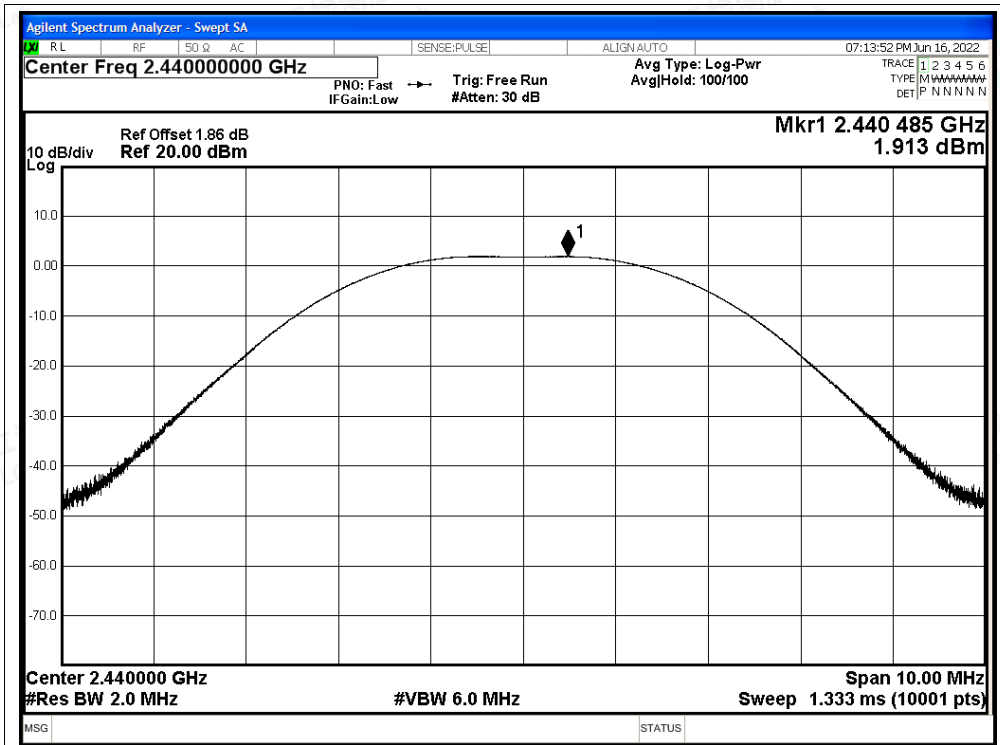
Power NVNT BLE 1M 2440MHz Ant



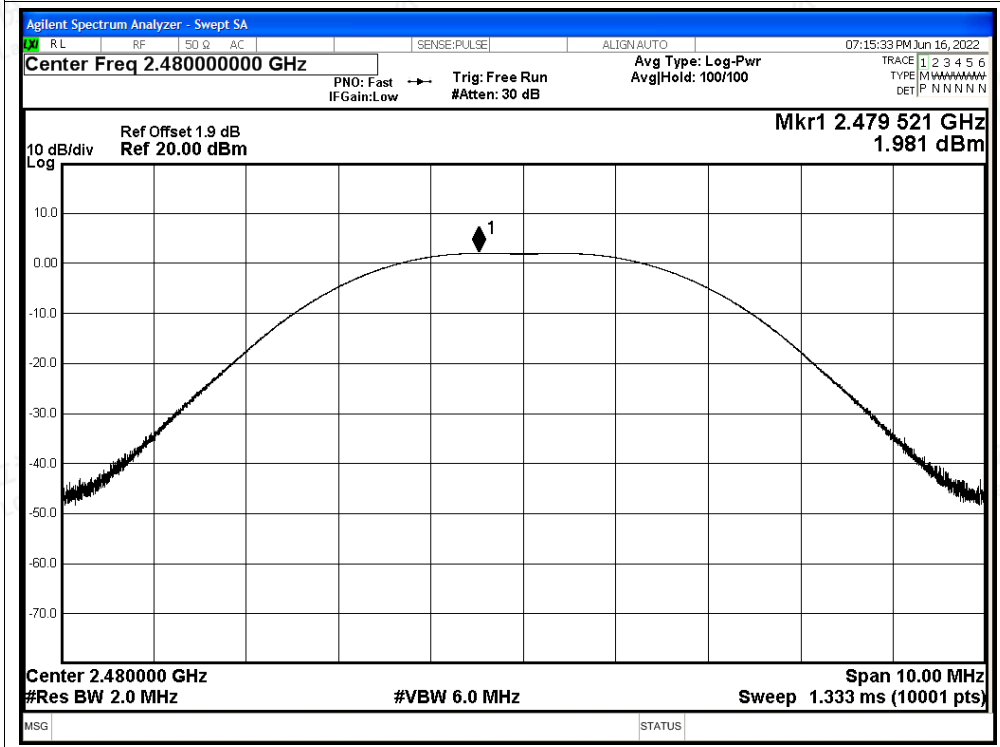


Test Graphs





Power NVNT BLE 2M 2480MHz Ant





A.3 Maximum Power Spectral Density Level

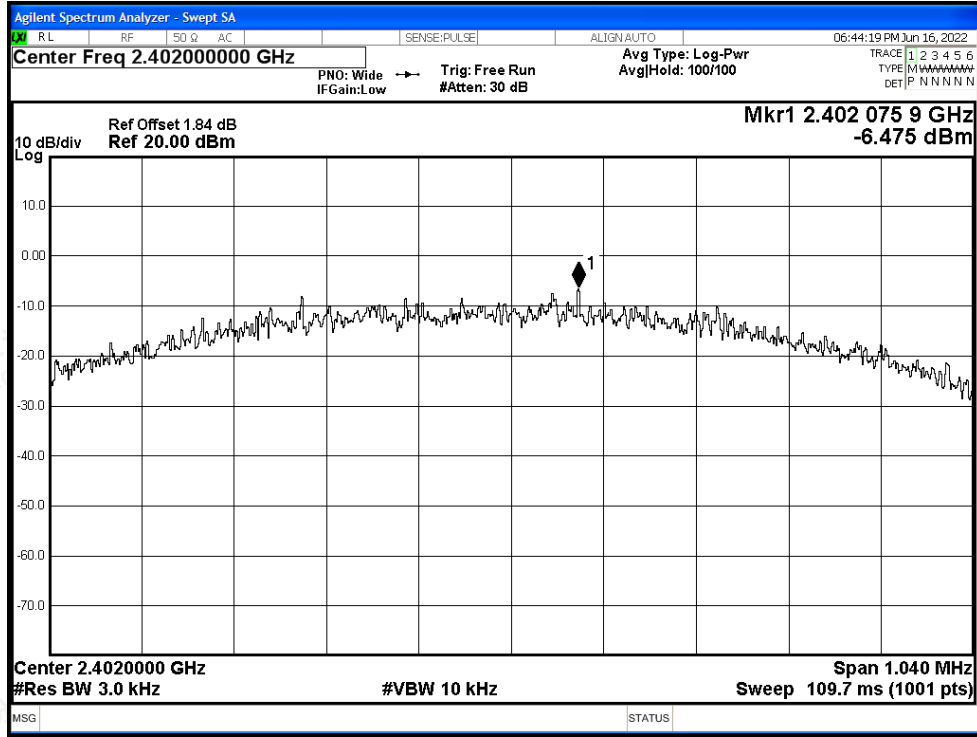
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant	-6.48	8	Pass
NVNT	BLE 1M	2440	Ant	-7.36	8	Pass
NVNT	BLE 1M	2480	Ant	-7.6	8	Pass
NVNT	BLE 2M	2402	Ant	-12.03	8	Pass
NVNT	BLE 2M	2440	Ant	-12.05	8	Pass
NVNT	BLE 2M	2480	Ant	-12.19	8	Pass



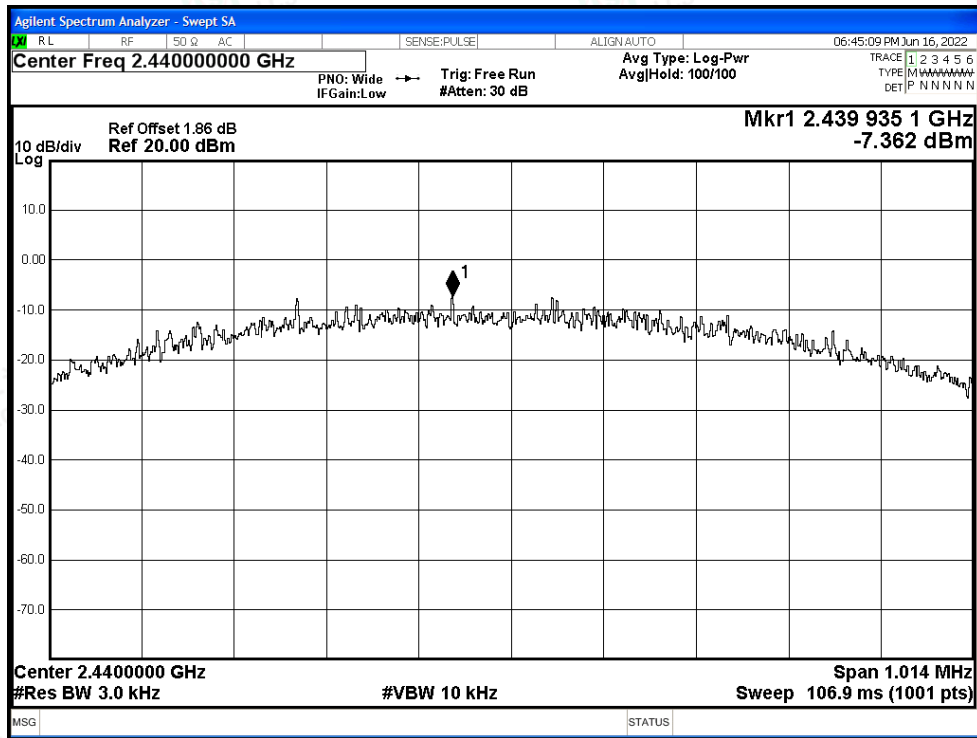


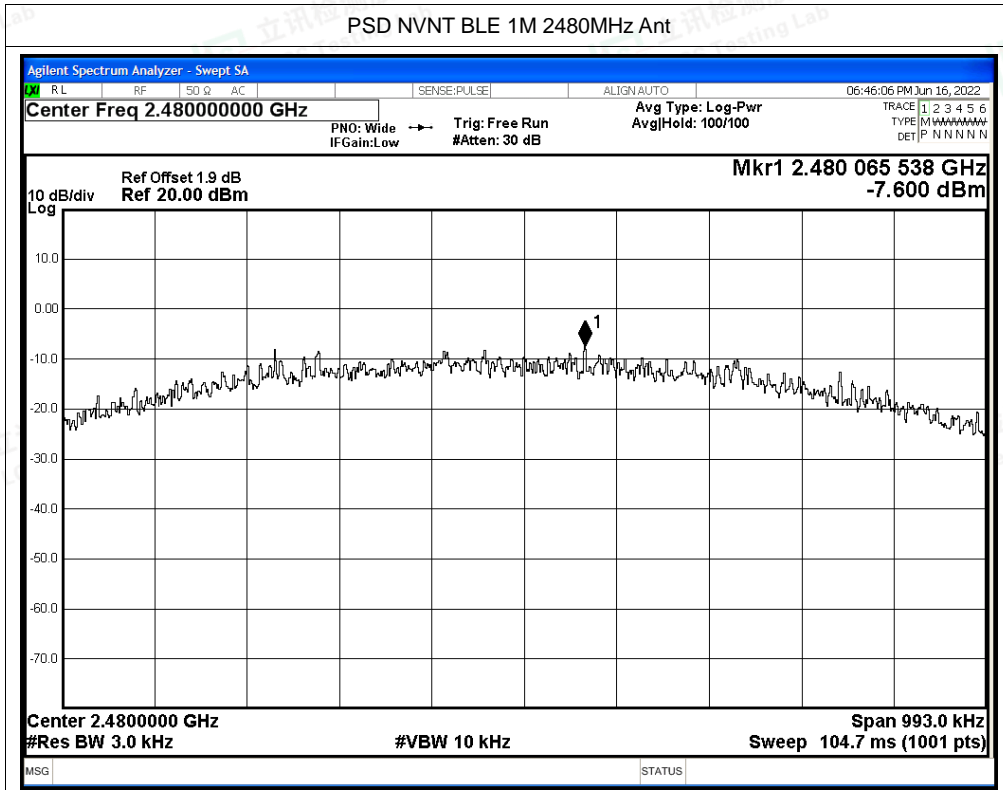
Test Graphs

PSD NVNT BLE 1M 2402MHz Ant

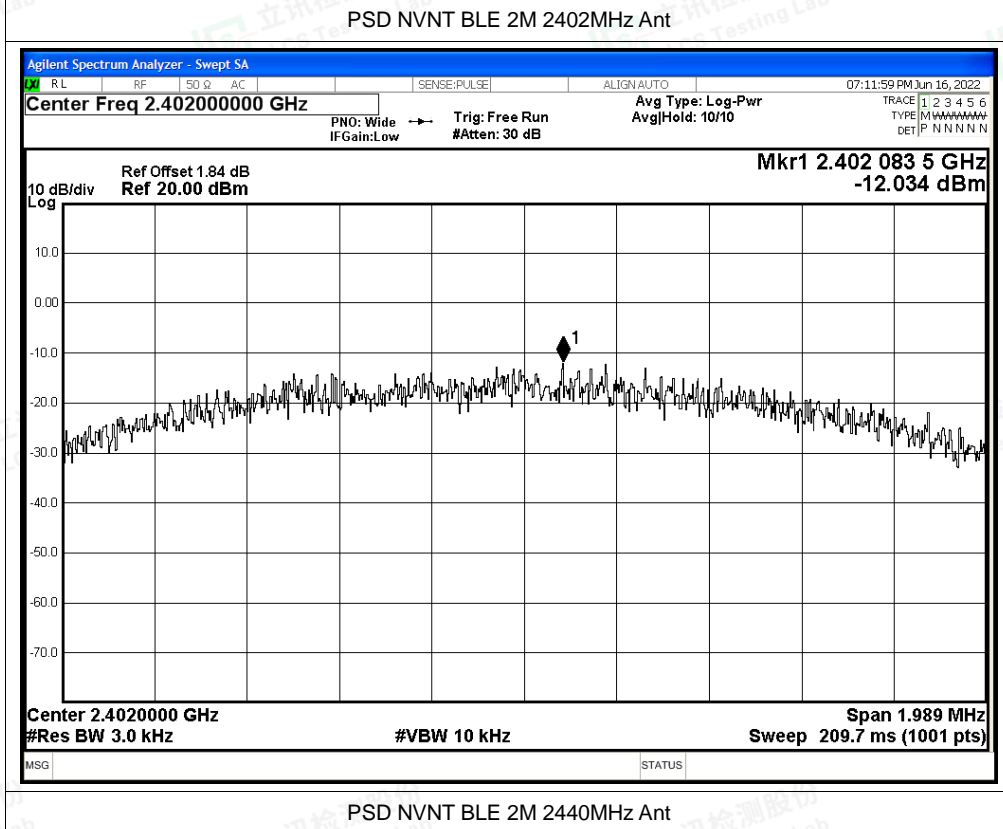


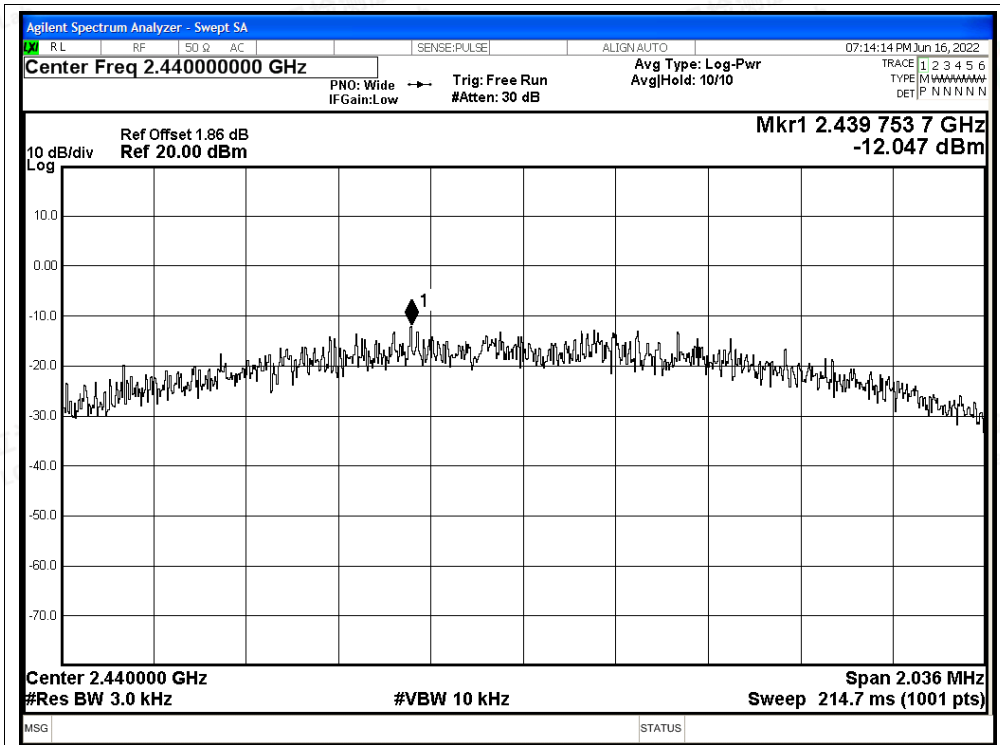
PSD NVNT BLE 1M 2440MHz Ant



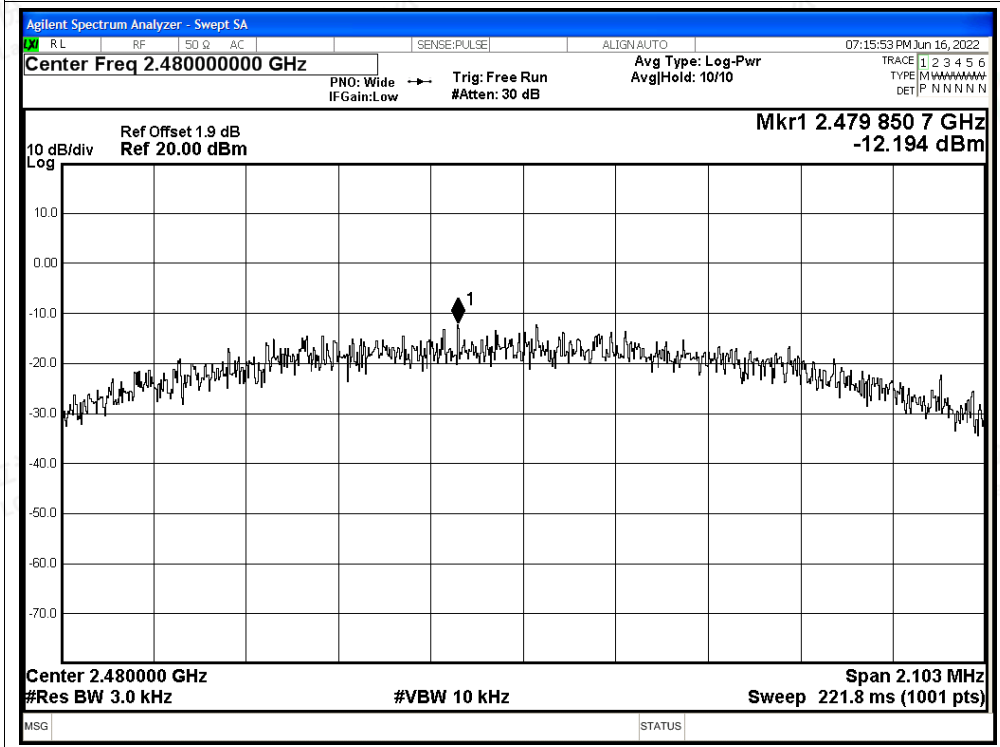


Test Graphs





PSD NVNT BLE 2M 2480MHz Ant



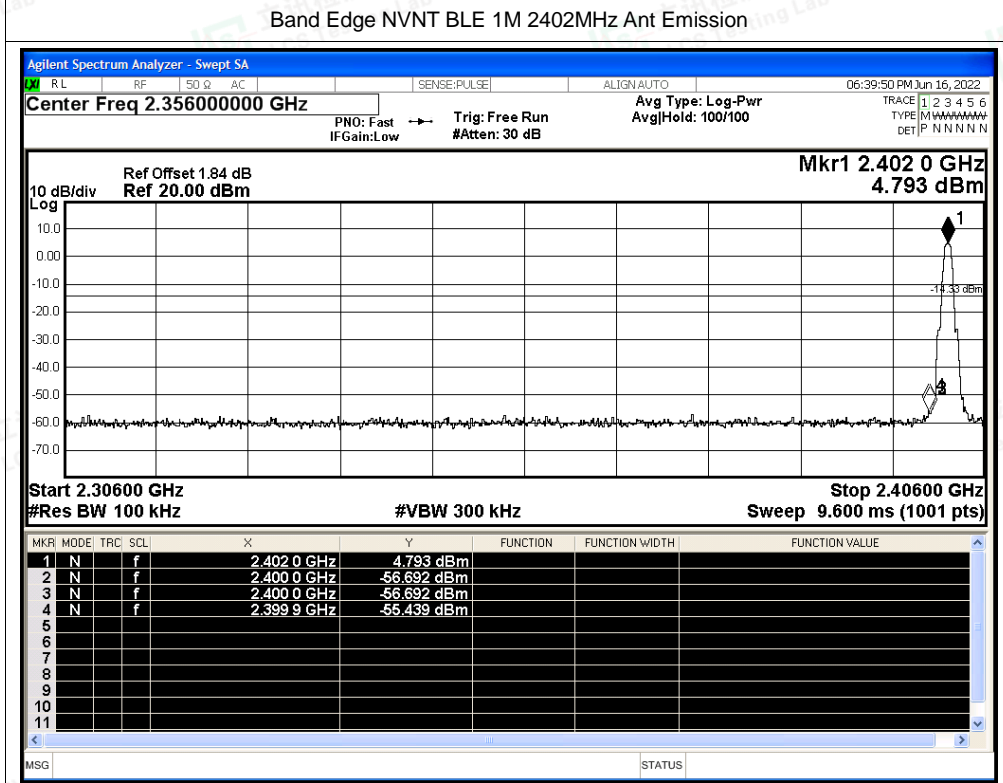
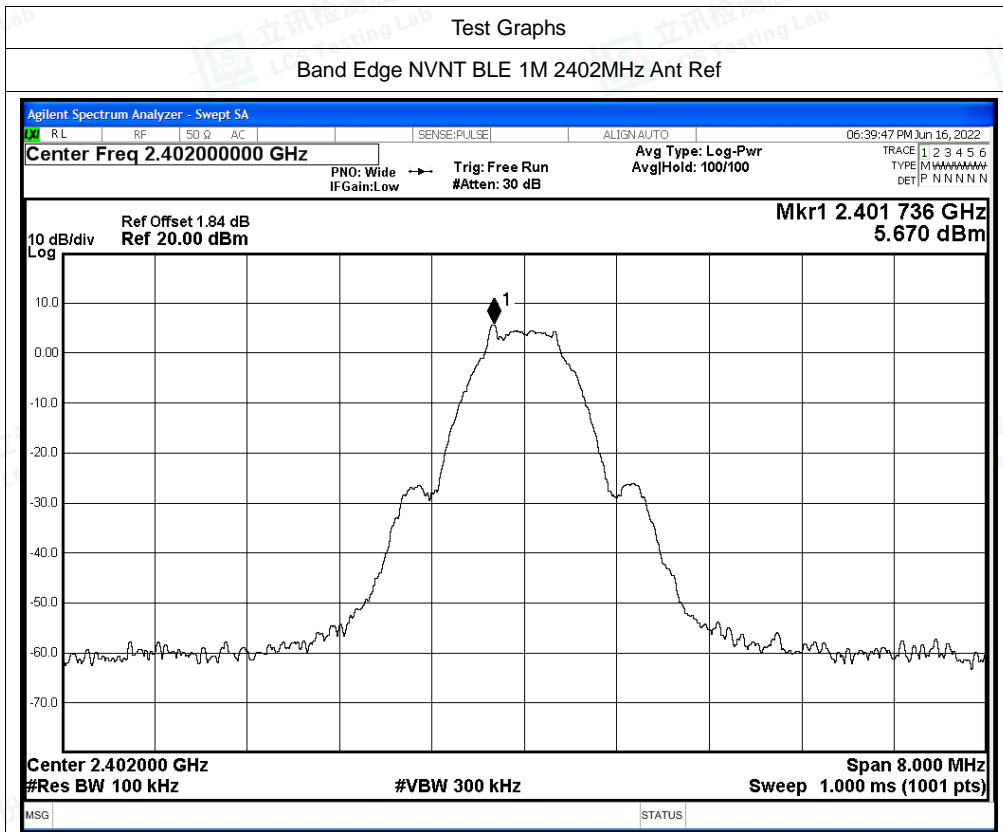


A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant	-61.11	-20	Pass
NVNT	BLE 1M	2480	Ant	-58.89	-20	Pass
NVNT	BLE 2M	2402	Ant	-31.98	-20	Pass
NVNT	BLE 2M	2480	Ant	-56.33	-20	Pass

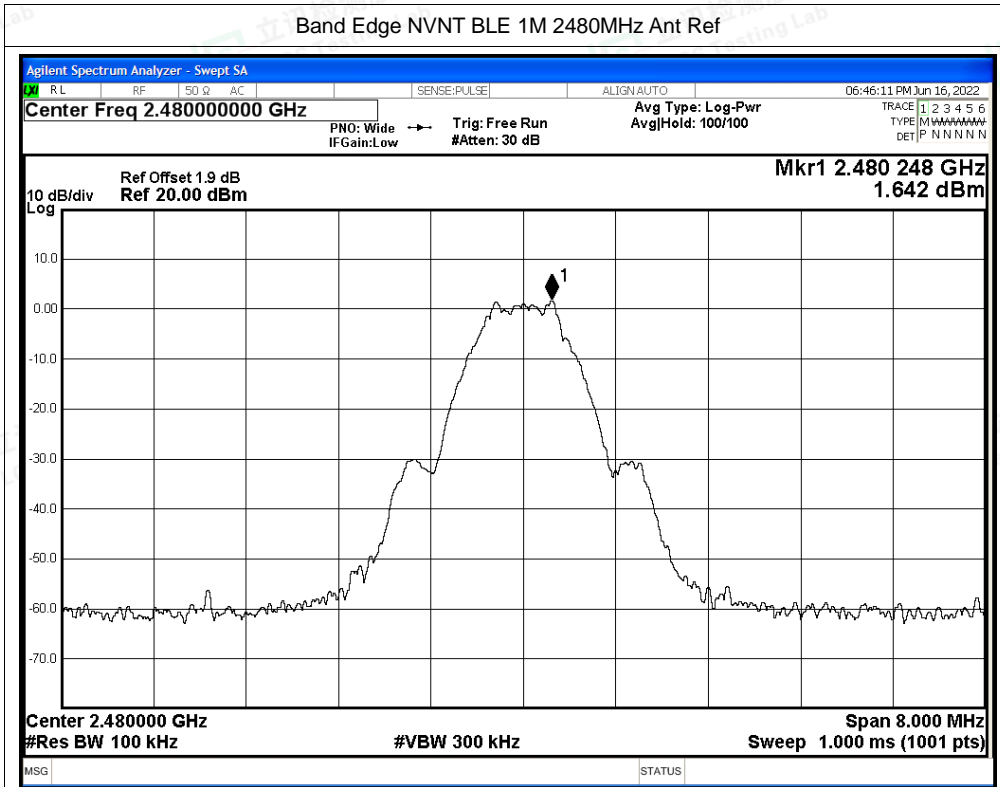


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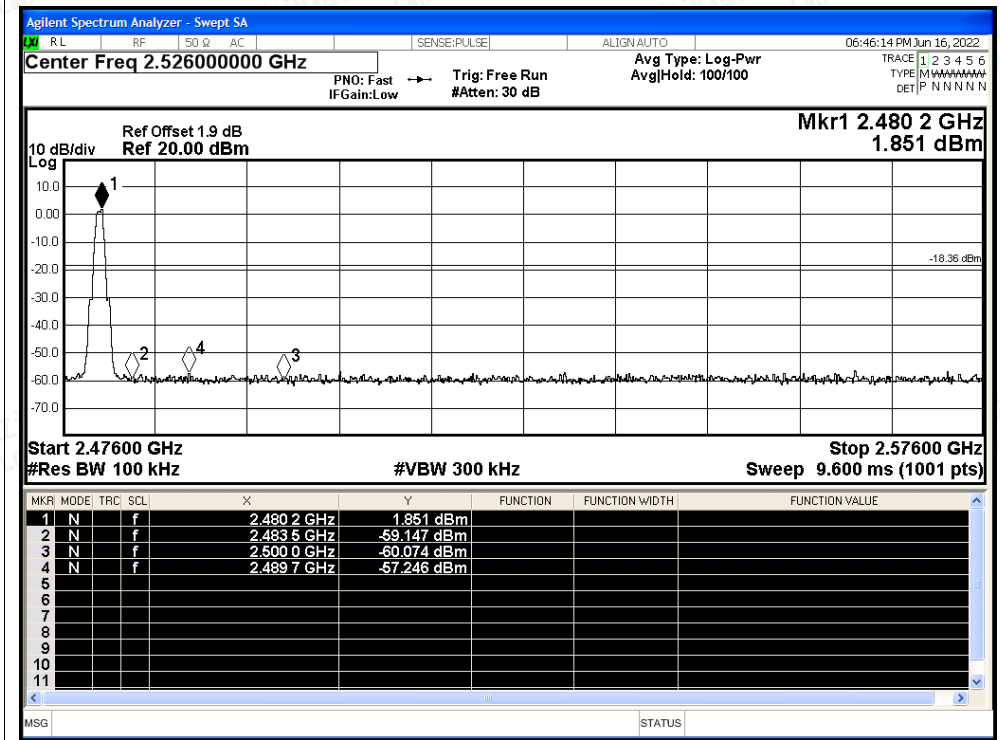


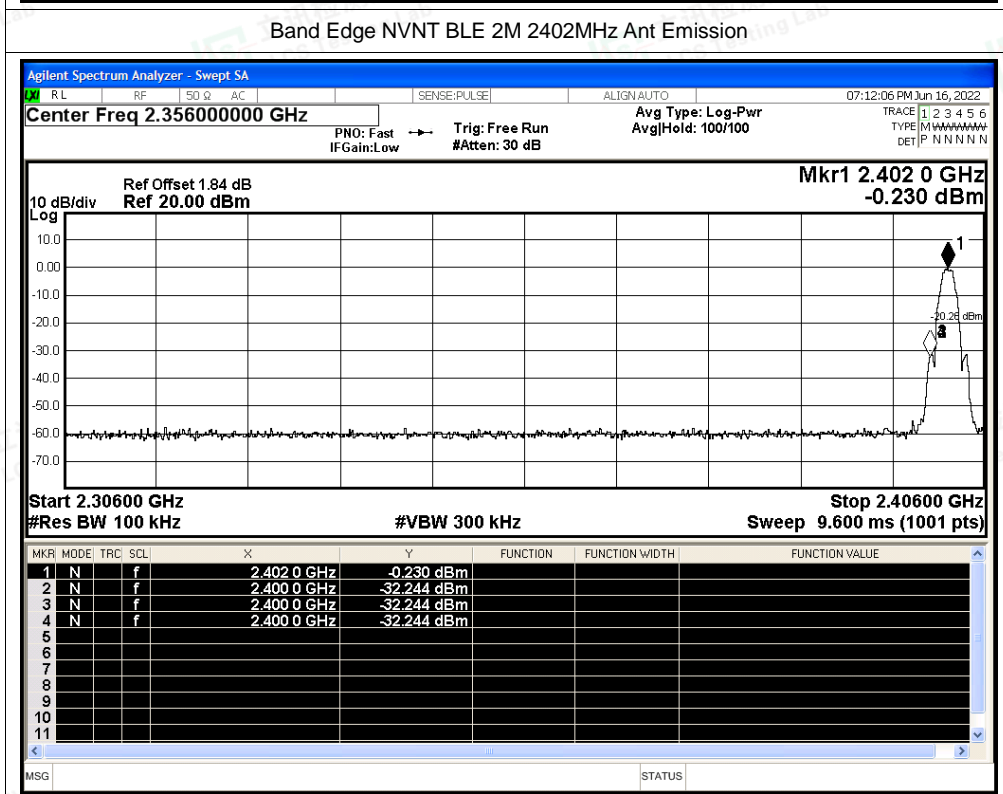
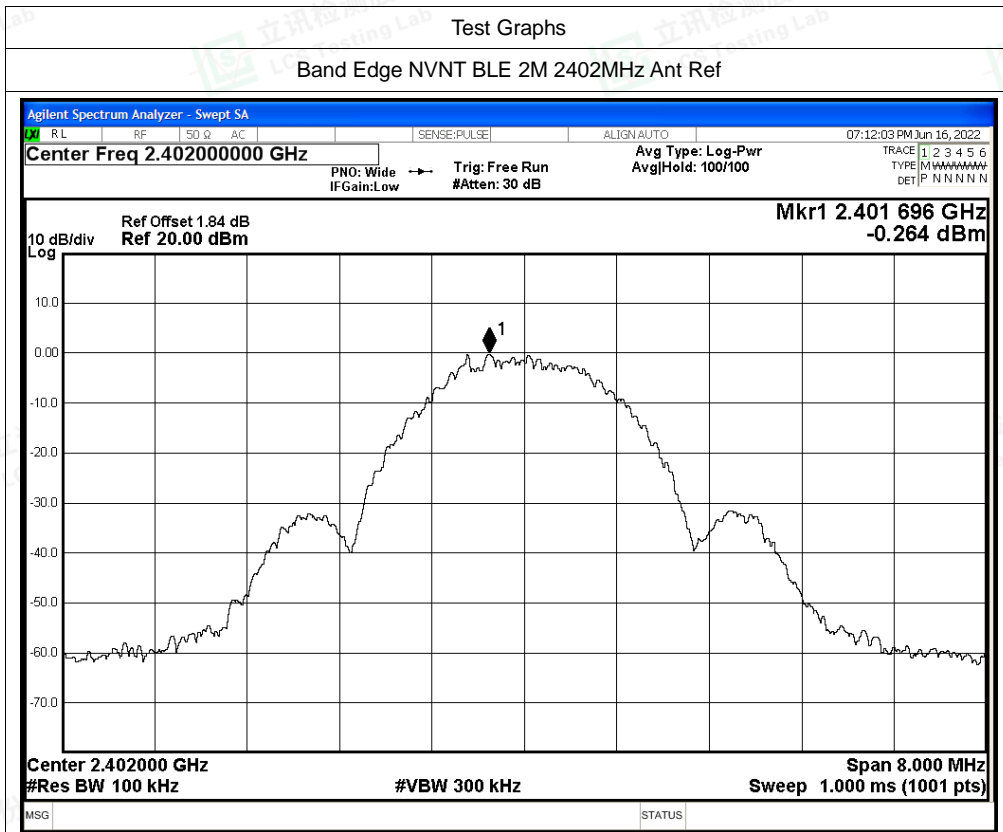


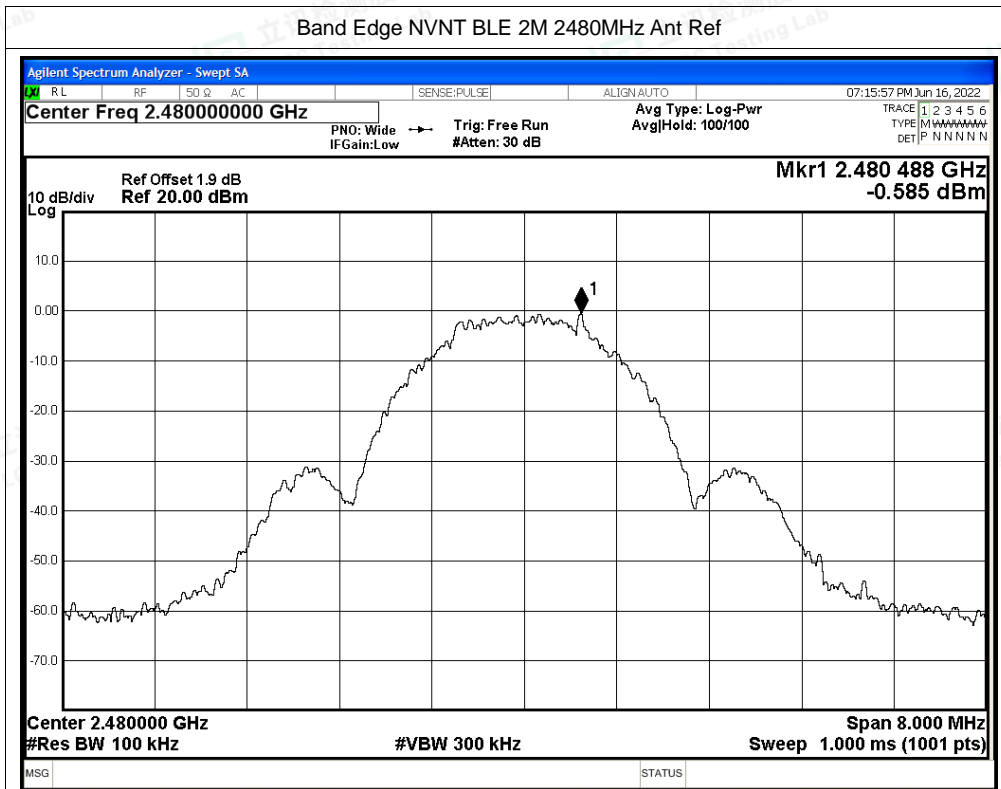
Band Edge NVNT BLE 1M 2480MHz Ant Ref



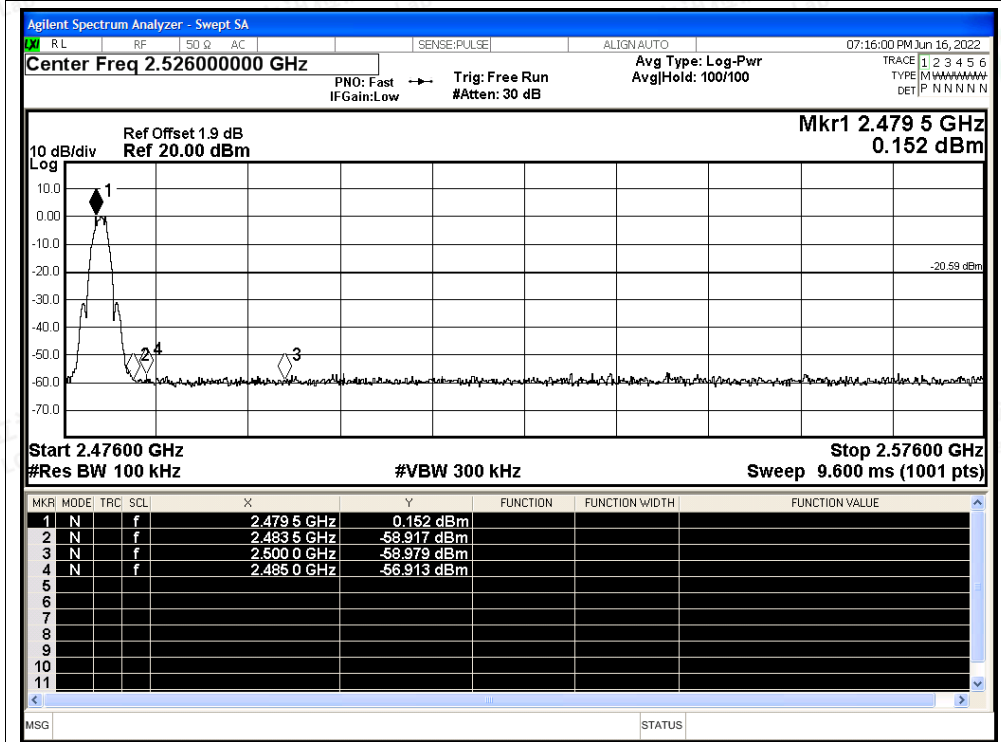
Band Edge NVNT BLE 1M 2480MHz Ant Emission







Band Edge NVNT BLE 2M 2480MHz Ant Emission





A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant	-50.82	-20	Pass
NVNT	BLE 1M	2480	Ant	-54.82	-20	Pass
NVNT	BLE 2M	2402	Ant	-51.15	-20	Pass
NVNT	BLE 2M	2480	Ant	-56.13	-20	Pass

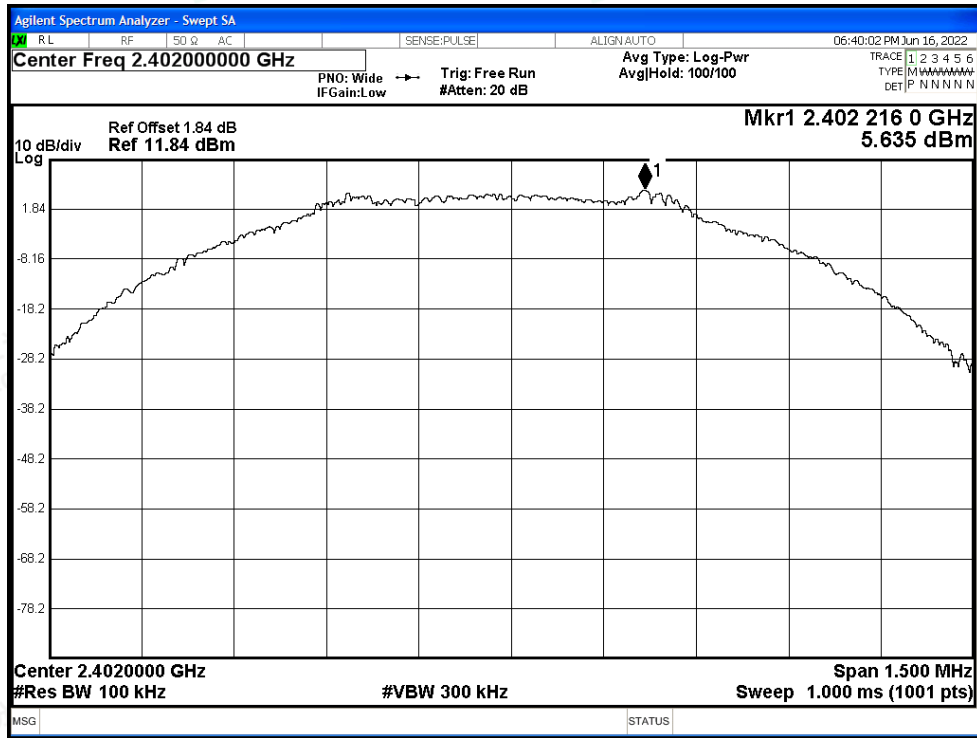


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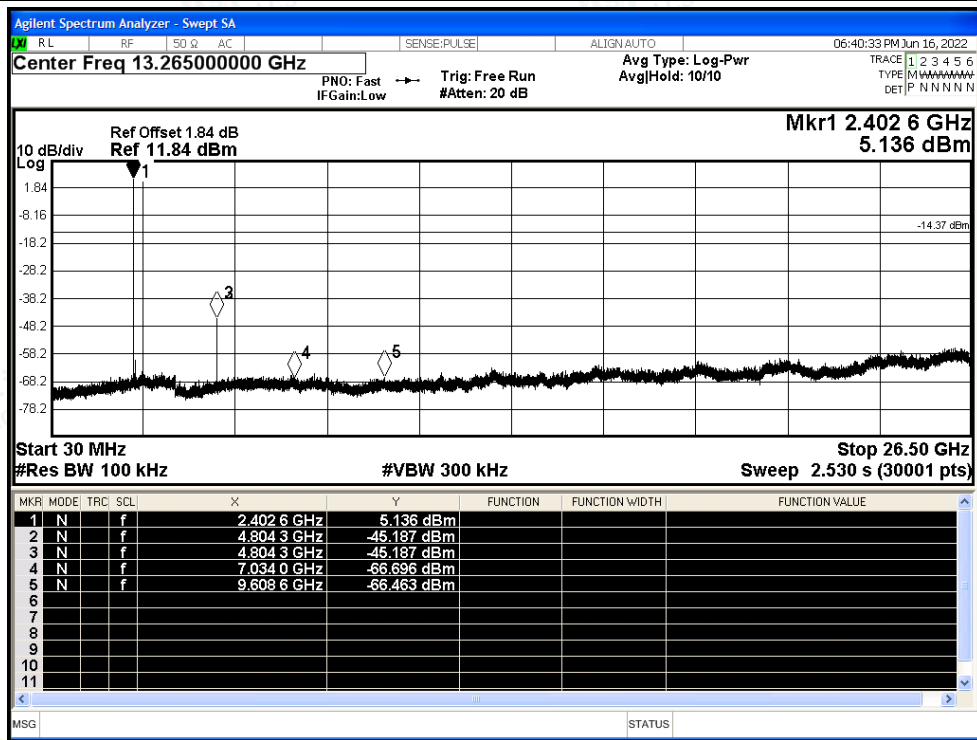


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant Ref

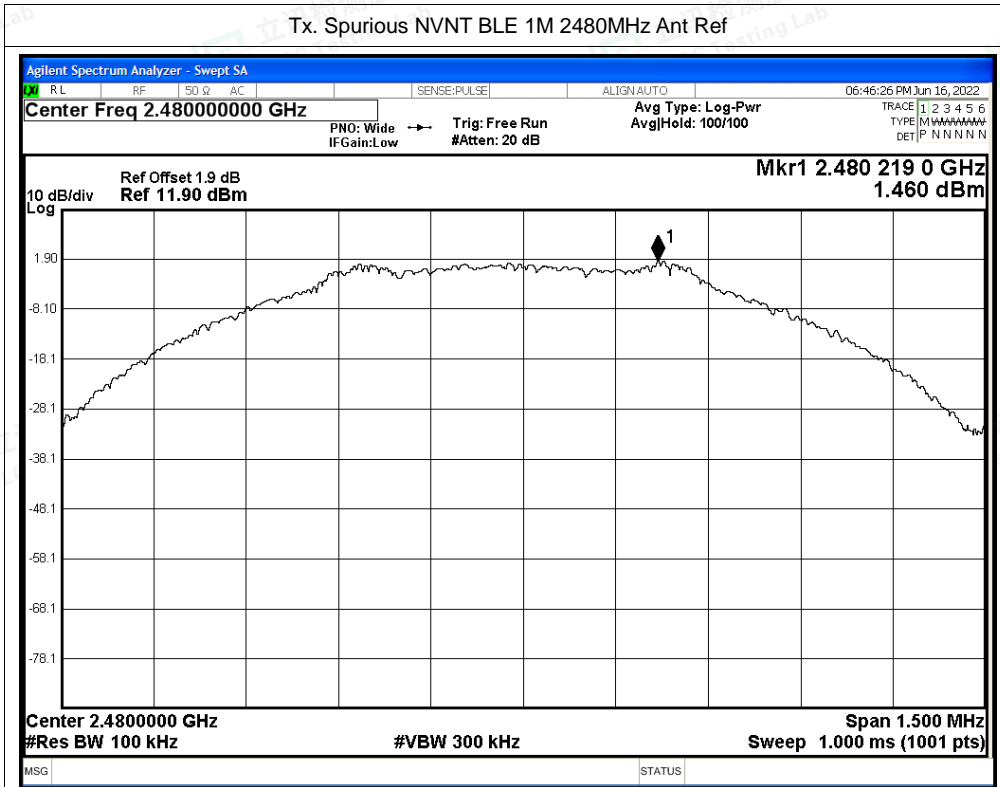


Tx. Spurious NVNT BLE 1M 2402MHz Ant Emission

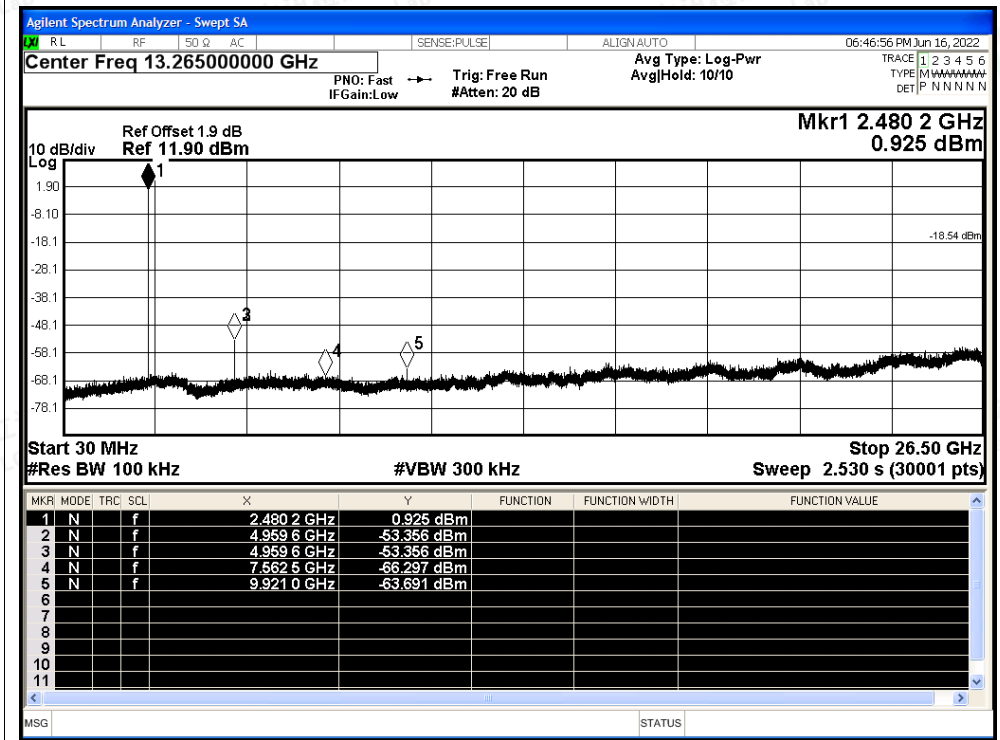




Tx. Spurious NVNT BLE 1M 2480MHz Ant Ref



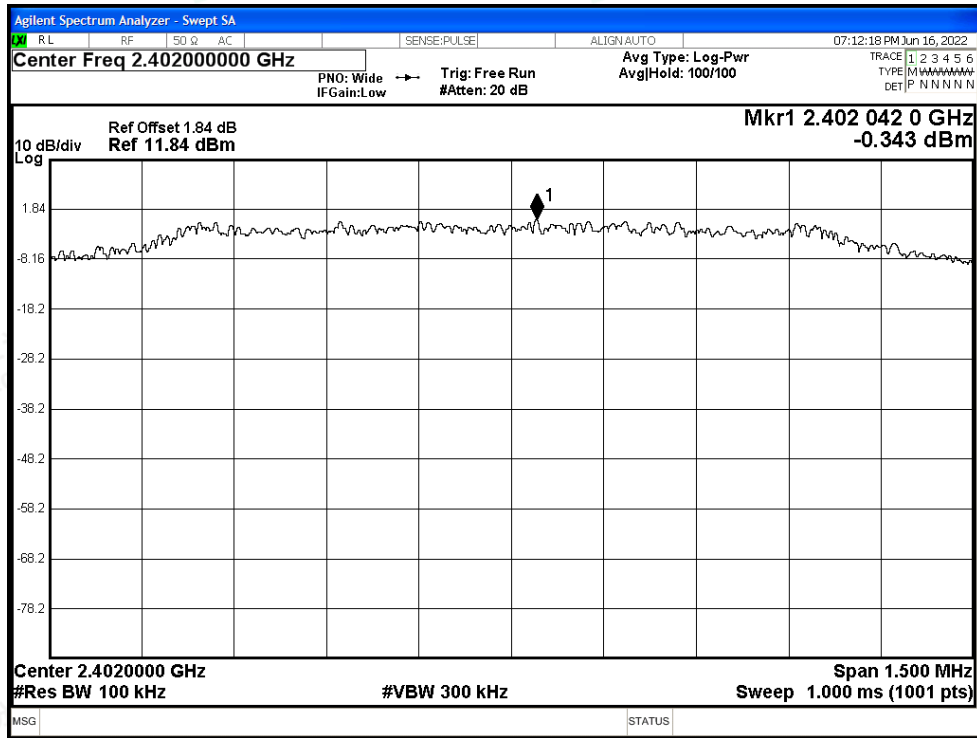
Tx. Spurious NVNT BLE 1M 2480MHz Ant Emission



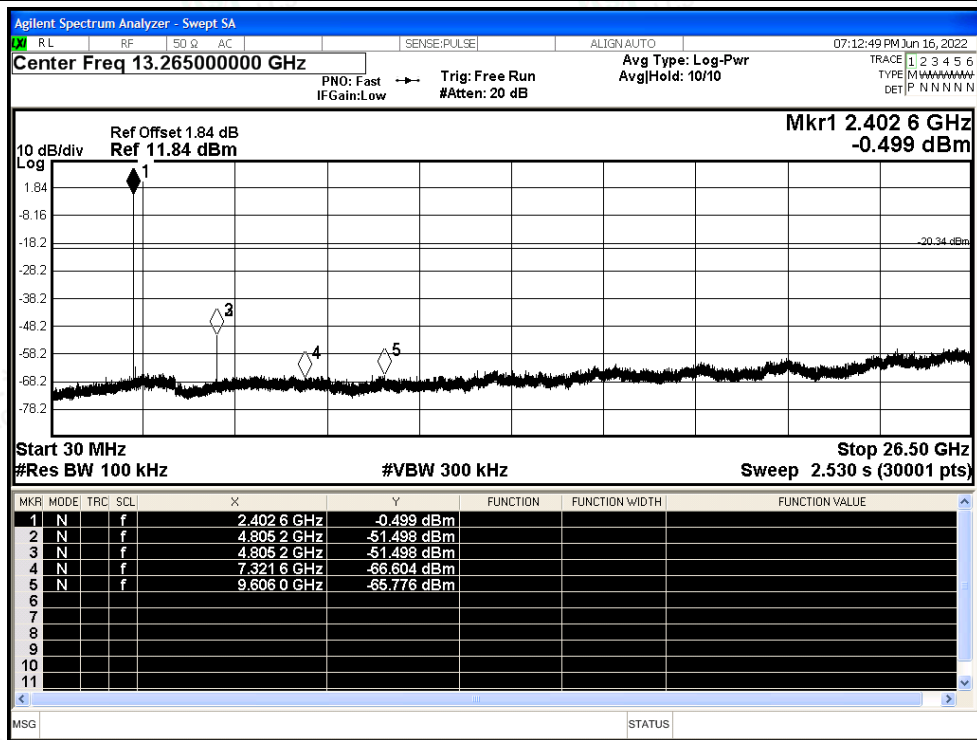


Test Graphs

Tx. Spurious NVNT BLE 2M 2402MHz Ant Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant Emission

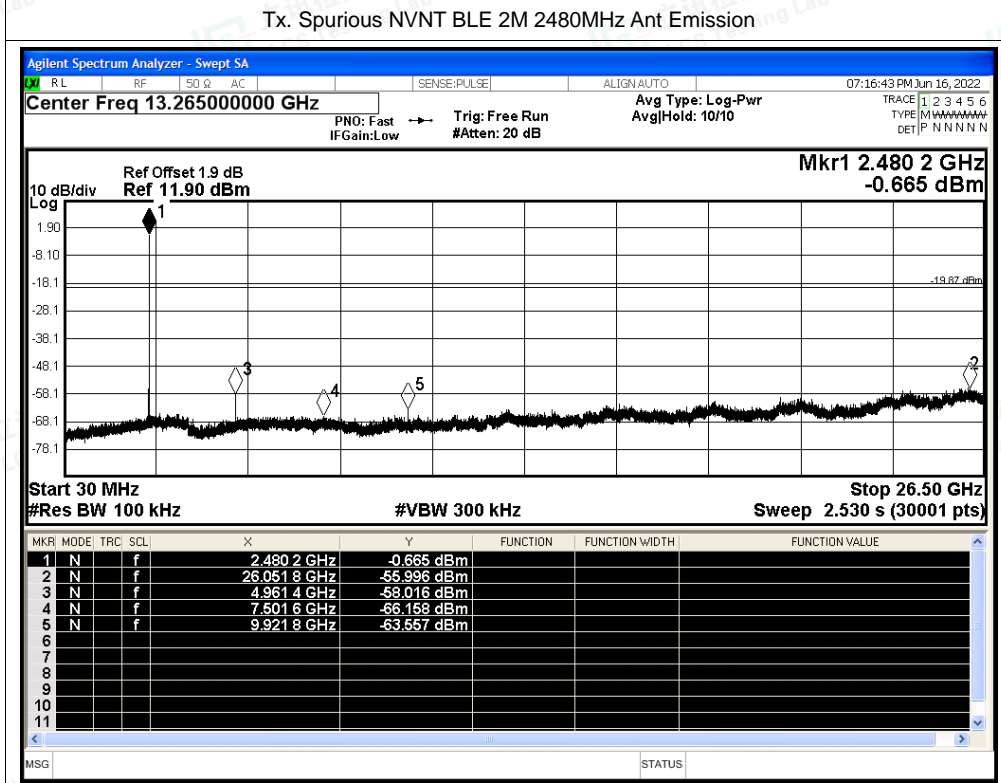
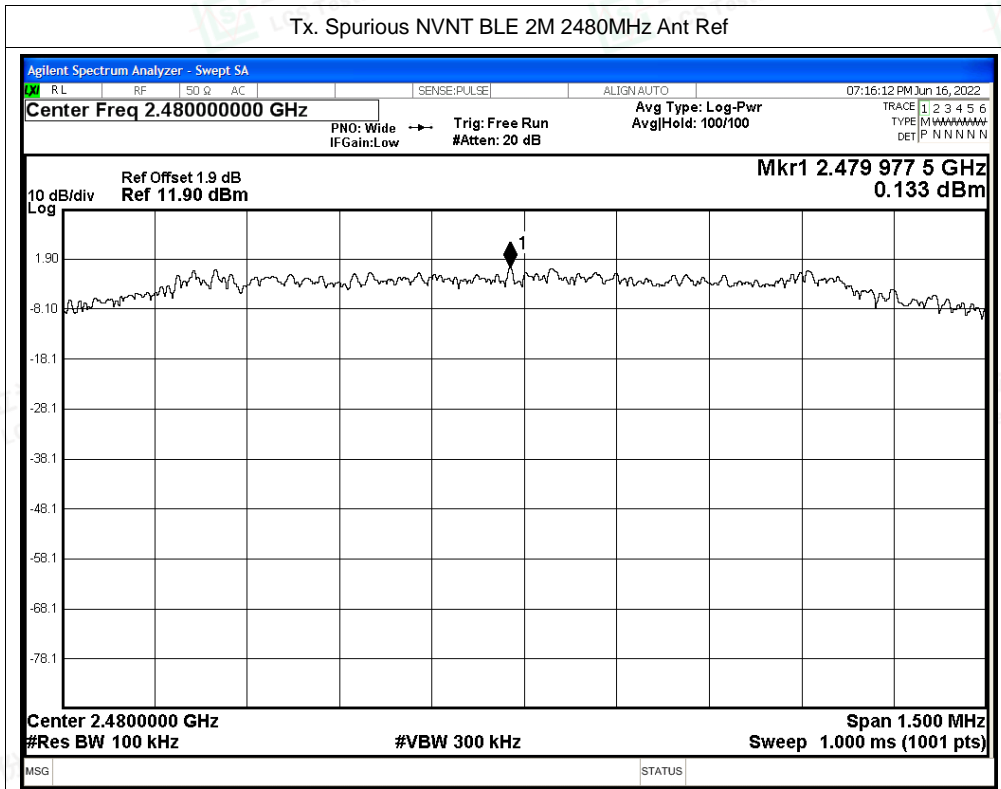


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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant	100	0	0
NVNT	BLE 1M	2440	Ant	100	0	0
NVNT	BLE 1M	2480	Ant	100	0	0
NVNT	BLE 2M	2402	Ant	100	0	0
NVNT	BLE 2M	2440	Ant	100	0	0
NVNT	BLE 2M	2480	Ant	100	0	0

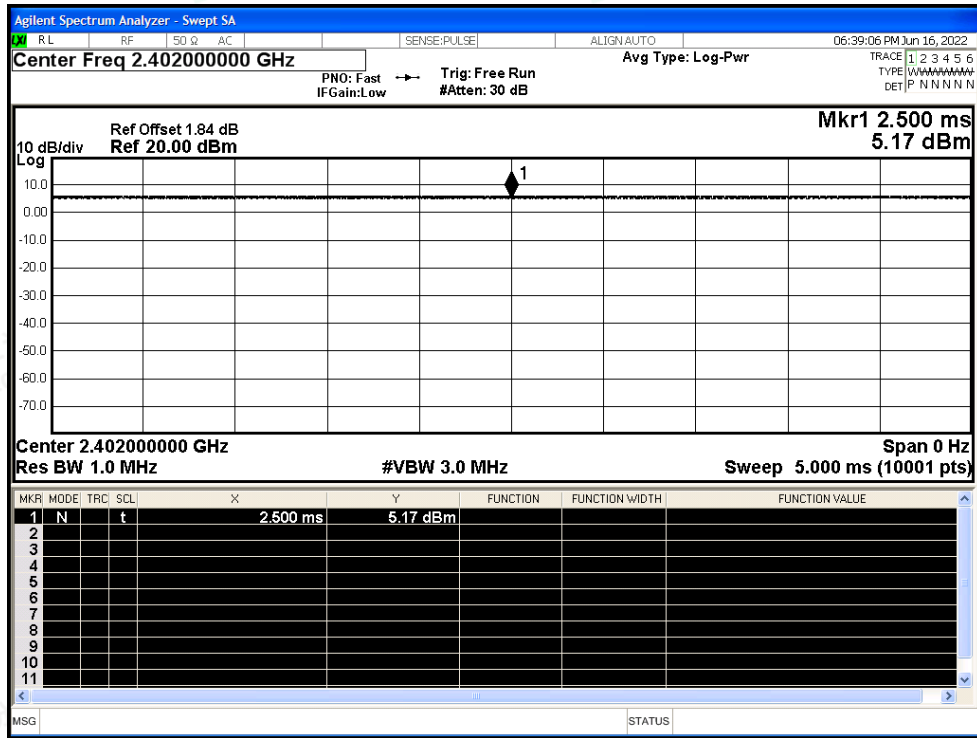


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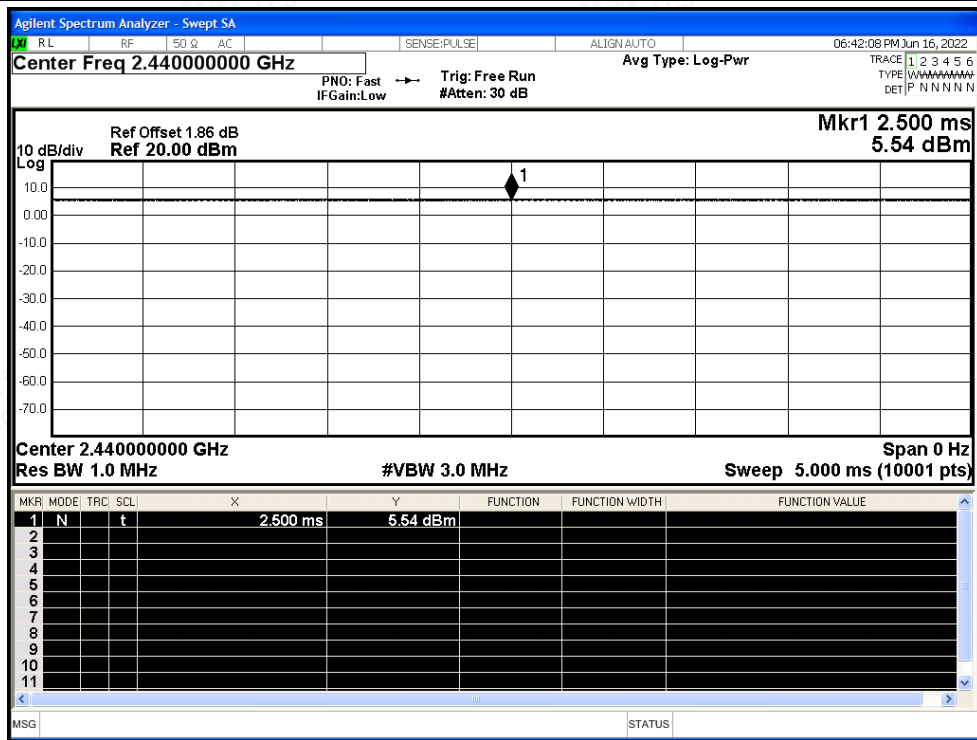


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant

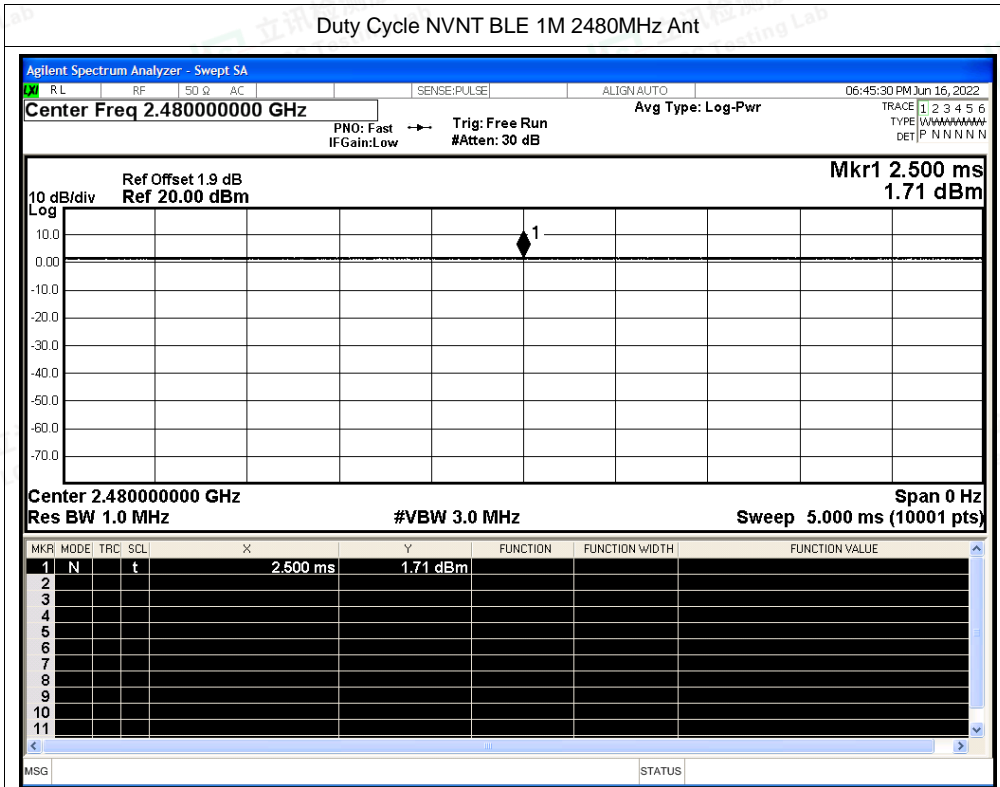


Duty Cycle NVNT BLE 1M 2440MHz Ant



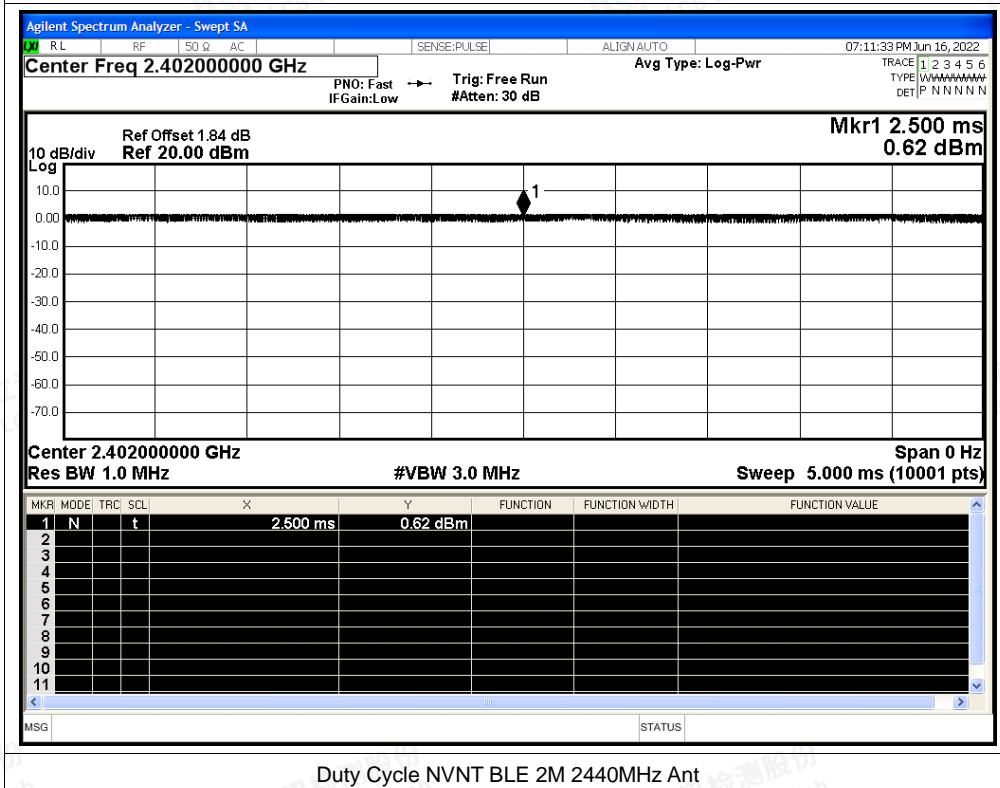


Duty Cycle NVNT BLE 1M 2480MHz Ant



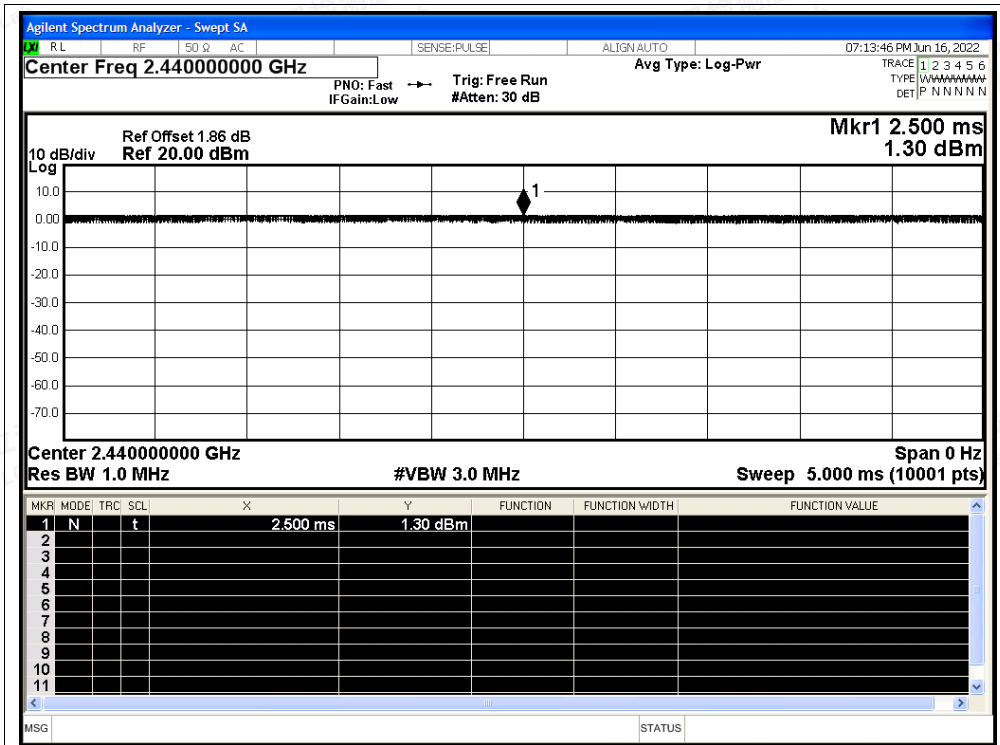
Test Graphs

Duty Cycle NVNT BLE 2M 2402MHz Ant

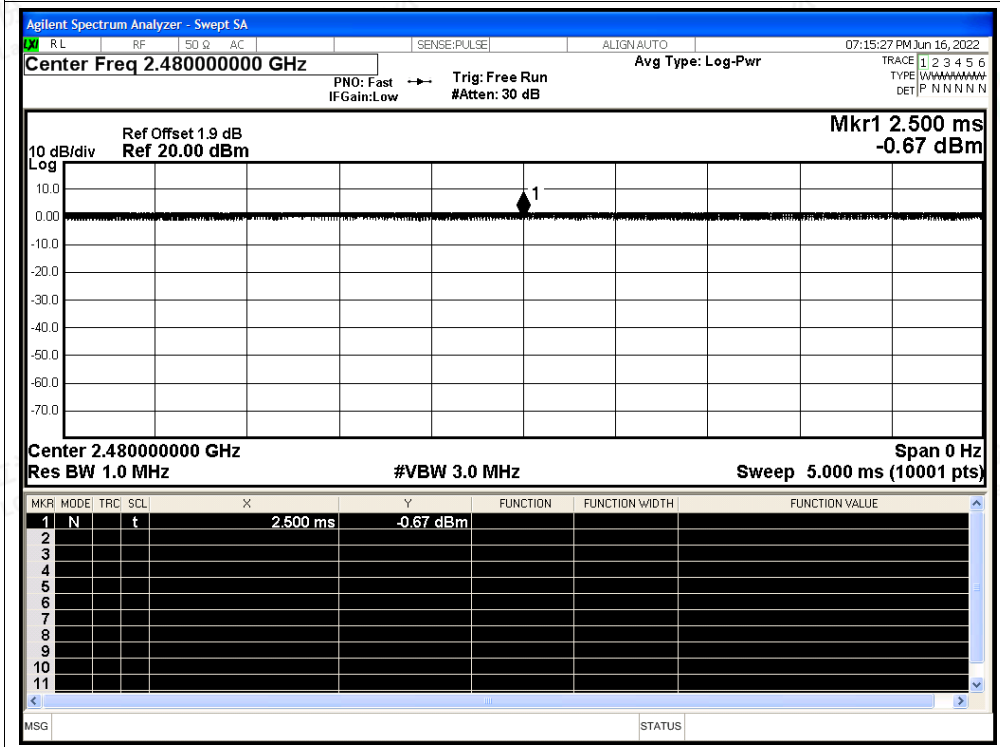


Duty Cycle NVNT BLE 2M 2440MHz Ant





Duty Cycle NVNT BLE 2M 2480MHz Ant





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	Ant	2310	-49.8	2	47.46	Peak	74	Pass
NVNT	BLE 1M	2402	Ant	2310	-60.16	2	37.1	Average	54	Pass
NVNT	BLE 1M	2402	Ant	2383.344	-47.41	2	49.85	Peak	74	Pass
NVNT	BLE 1M	2402	Ant	2381.616	-58.99	2	38.27	Average	54	Pass
NVNT	BLE 1M	2402	Ant	2390	-51.69	2	45.57	Peak	74	Pass
NVNT	BLE 1M	2402	Ant	2390	-59.07	2	38.19	Average	54	Pass
NVNT	BLE 1M	2480	Ant	2483.5	-50.54	2	46.72	Peak	74	Pass
NVNT	BLE 1M	2480	Ant	2483.5	-59.68	2	37.58	Average	54	Pass
NVNT	BLE 1M	2480	Ant	2494.84	-47.2	2	50.06	Peak	74	Pass
NVNT	BLE 1M	2480	Ant	2491.672	-58.96	2	38.3	Average	54	Pass
NVNT	BLE 1M	2480	Ant	2500	-49.82	2	47.44	Peak	74	Pass
NVNT	BLE 1M	2480	Ant	2500	-59.5	2	37.76	Average	54	Pass
NVNT	BLE 2M	2402	Ant	2310	-51.96	2	45.3	Peak	74	Pass
NVNT	BLE 2M	2402	Ant	2310	-60.12	2	37.14	Average	54	Pass
NVNT	BLE 2M	2402	Ant	2325.84	-47.59	2	49.67	Peak	74	Pass
NVNT	BLE 2M	2402	Ant	2384.496	-59.28	2	37.98	Average	54	Pass
NVNT	BLE 2M	2402	Ant	2390	-50.72	2	46.54	Peak	74	Pass
NVNT	BLE 2M	2402	Ant	2390	-59.89	2	37.37	Average	54	Pass
NVNT	BLE 2M	2480	Ant	2483.5	-48.14	2	49.12	Peak	74	Pass
NVNT	BLE 2M	2480	Ant	2483.5	-55.79	2	41.47	Average	54	Pass
NVNT	BLE 2M	2480	Ant	2494.816	-46.95	2	50.31	Peak	74	Pass
NVNT	BLE 2M	2480	Ant	2483.512	-55.79	2	41.47	Average	54	Pass
NVNT	BLE 2M	2480	Ant	2500	-49.84	2	47.42	Peak	74	Pass
NVNT	BLE 2M	2480	Ant	2500	-59.41	2	37.85	Average	54	Pass

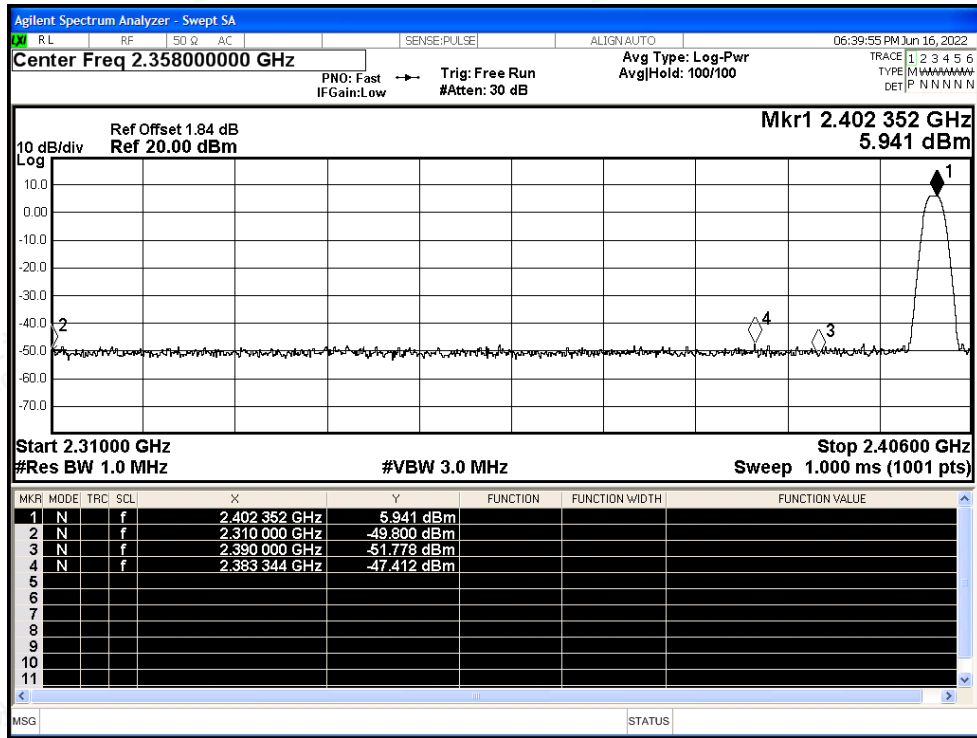


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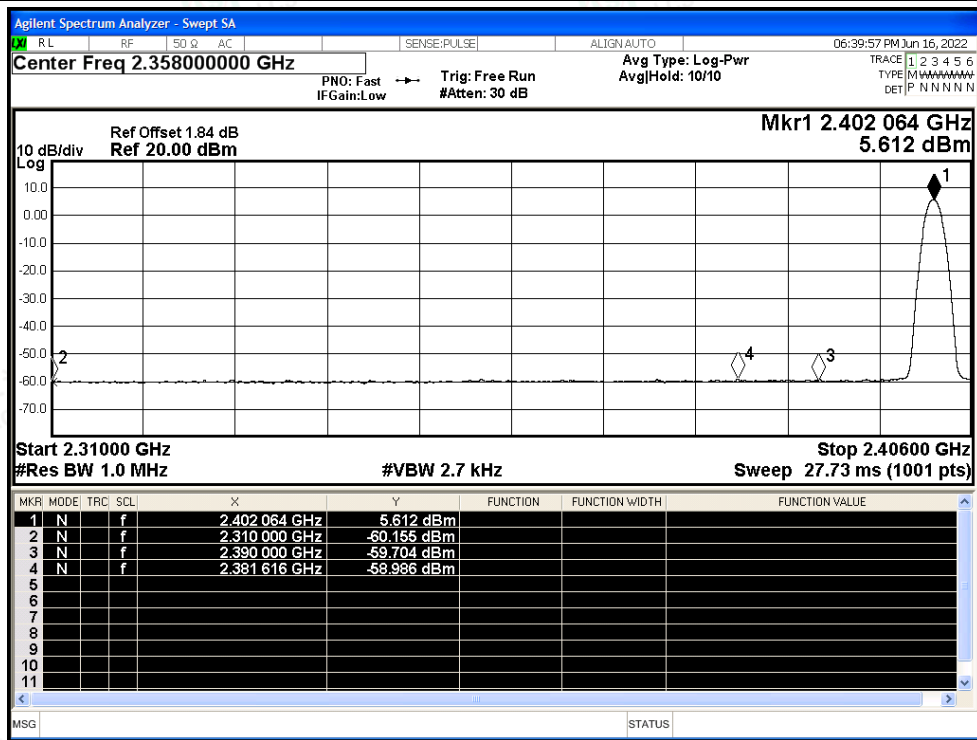


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant Peak



Restrict Band NVNT BLE 1M 2402MHz Ant Average

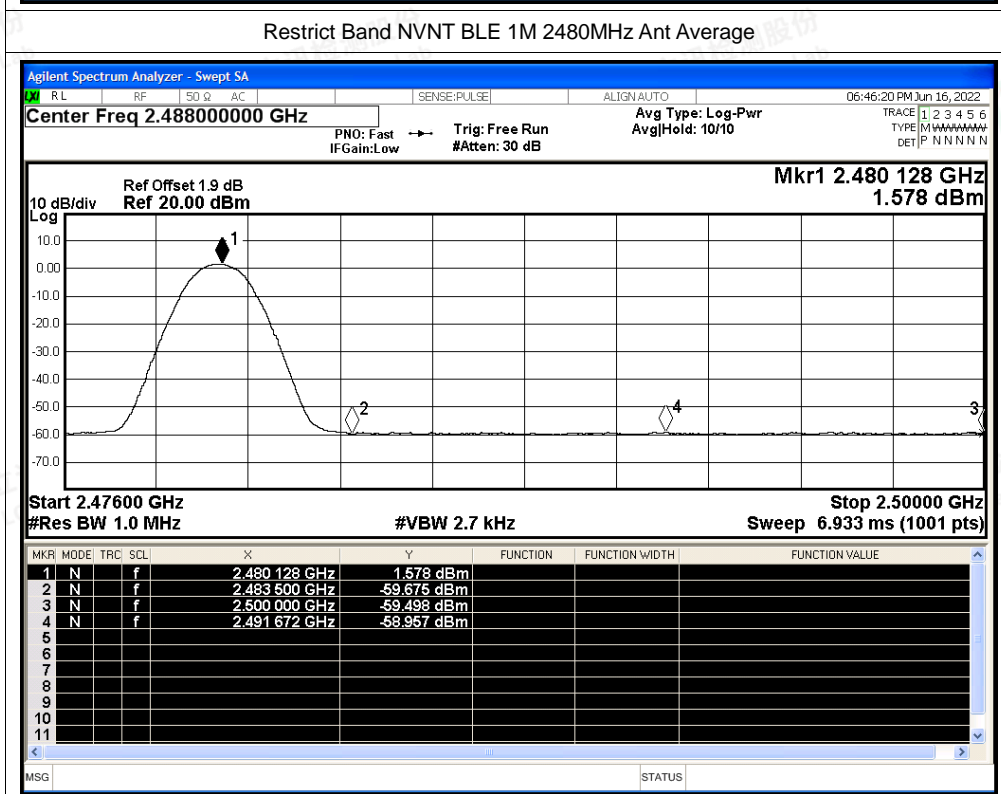
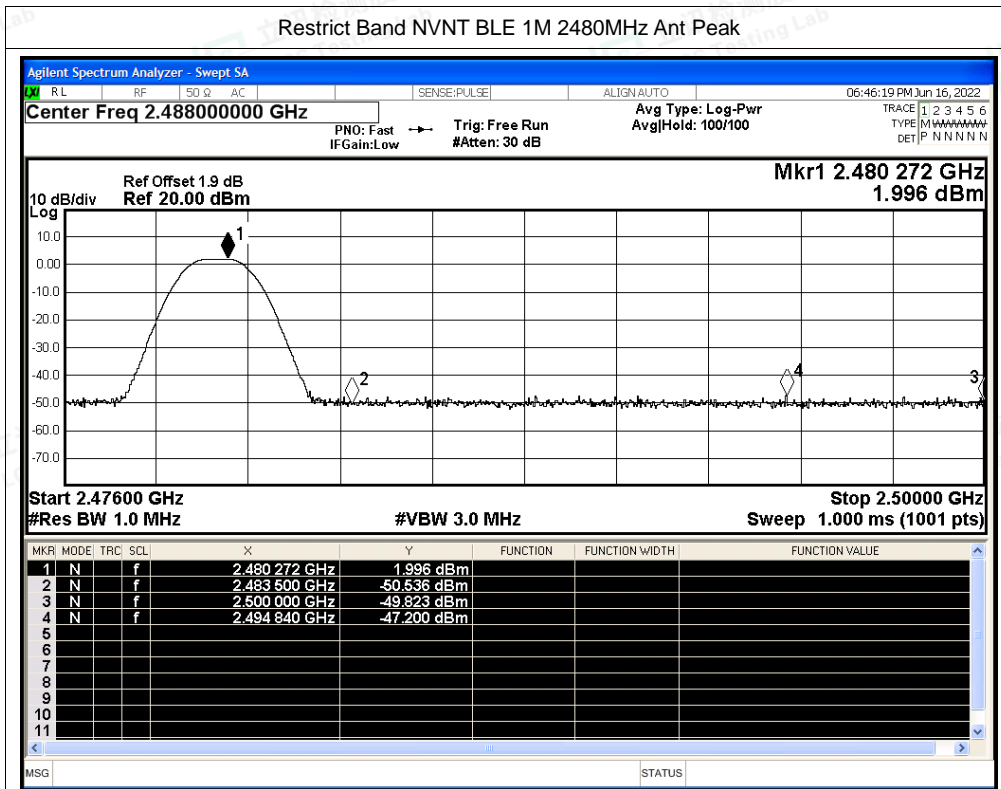


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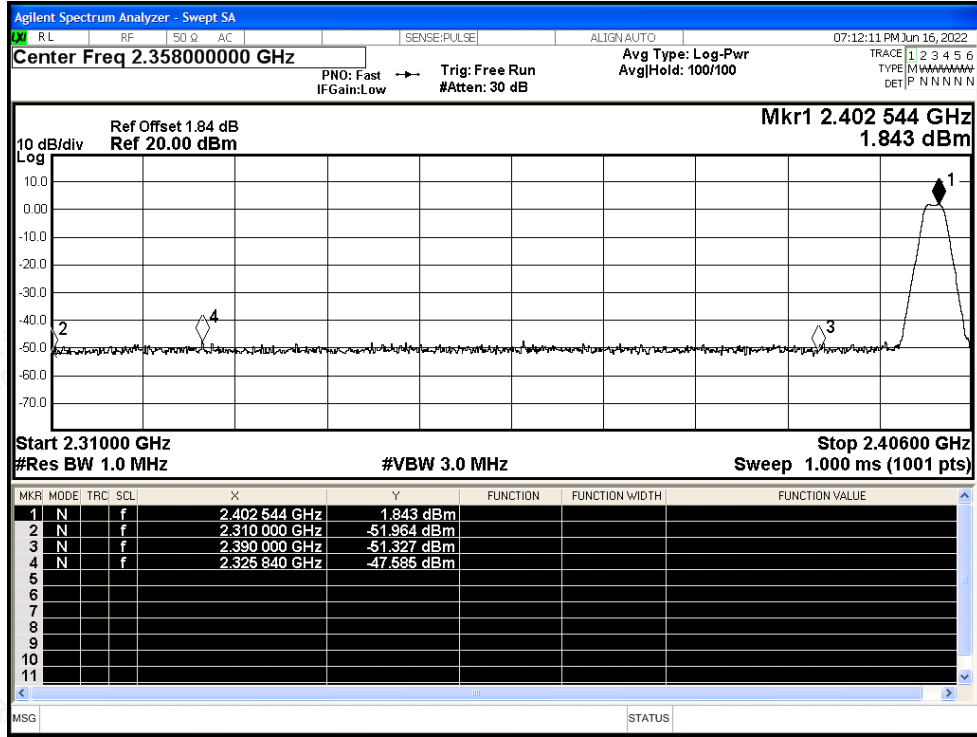
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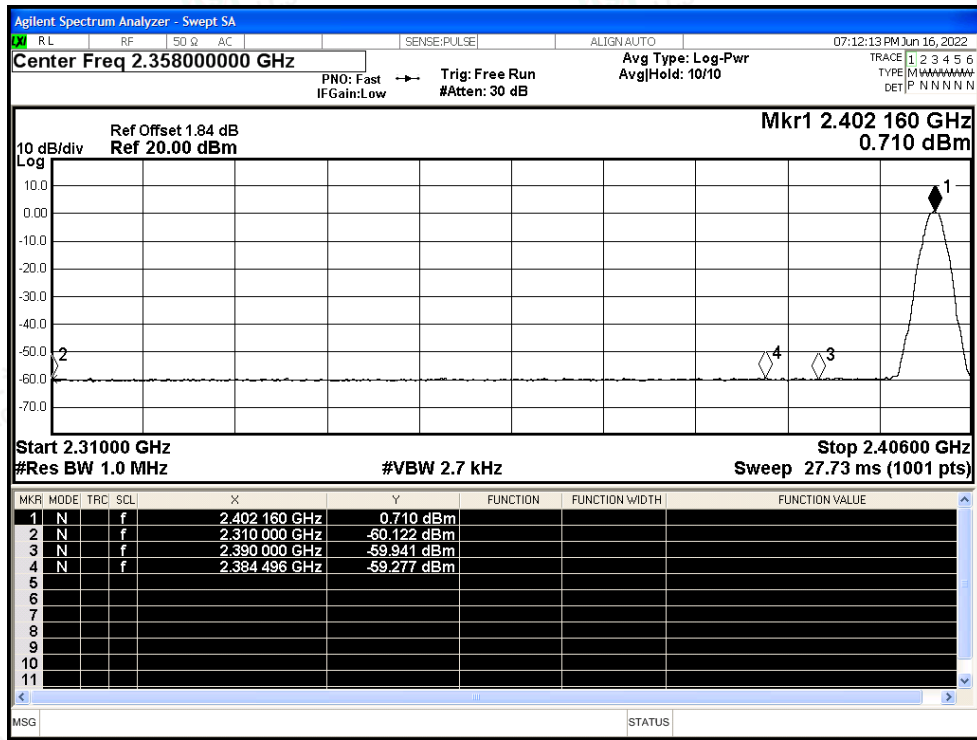


Test Graphs

Restrict Band NVNT BLE 2M 2402MHz Ant Peak



Restrict Band NVNT BLE 2M 2402MHz Ant Average

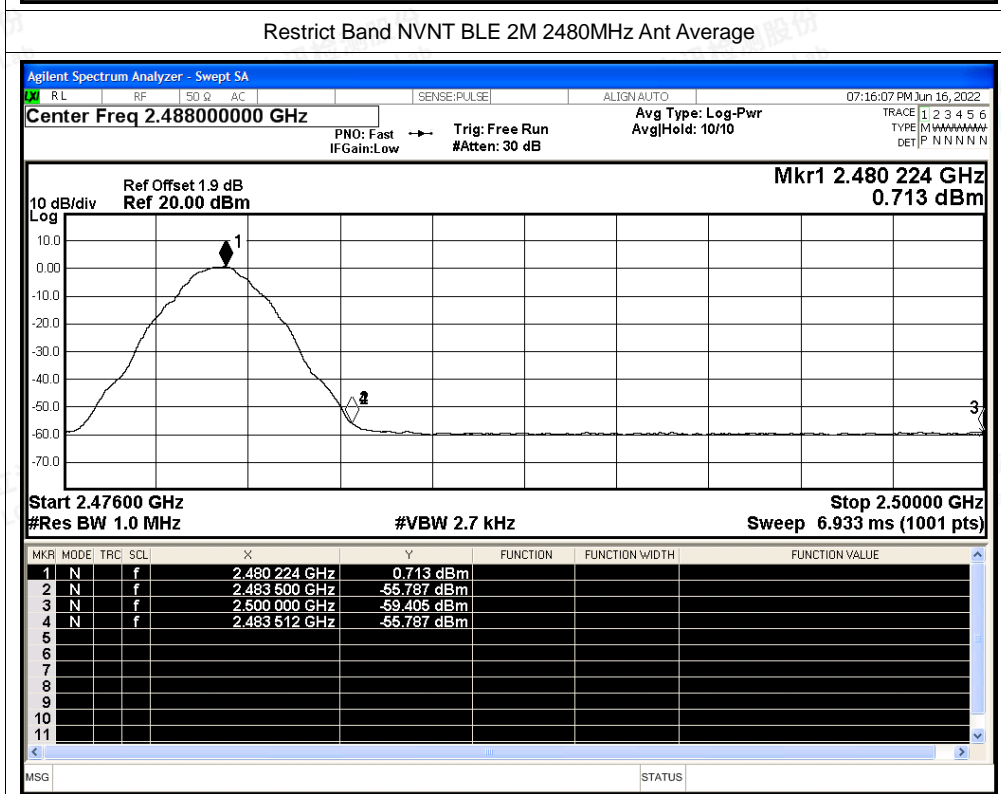
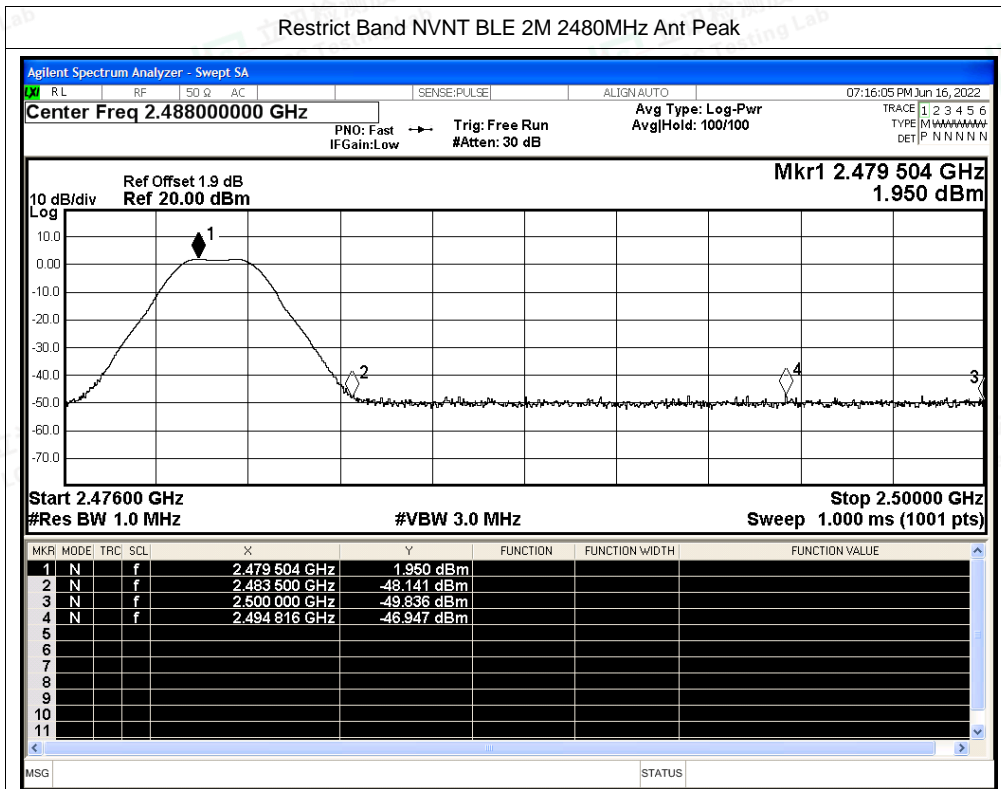


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