



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Oti-Bot

Test Model: IT10287

Environmental Conditions

Temperature:	21.1° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan



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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	0.692	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.69	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.682	0.5	Pass



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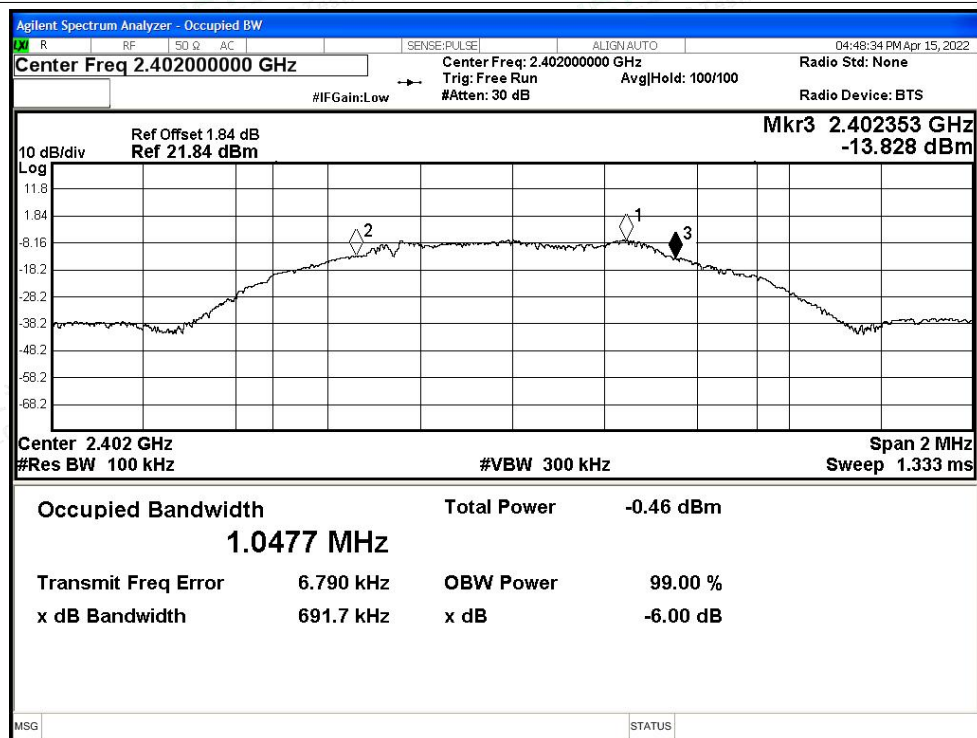
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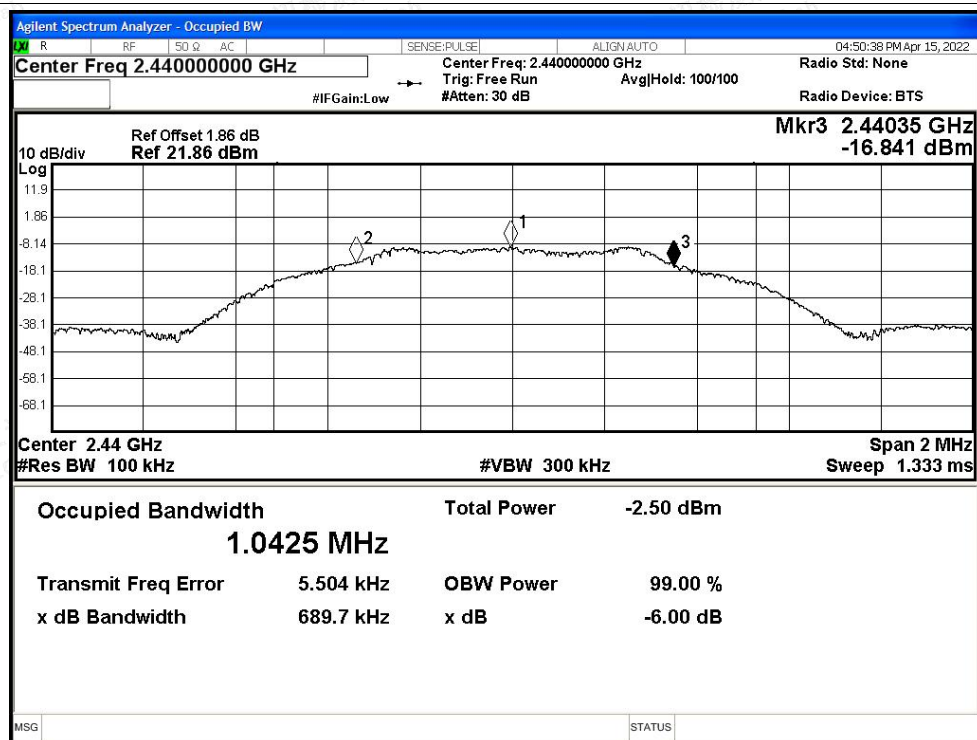


Test Graphs

6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

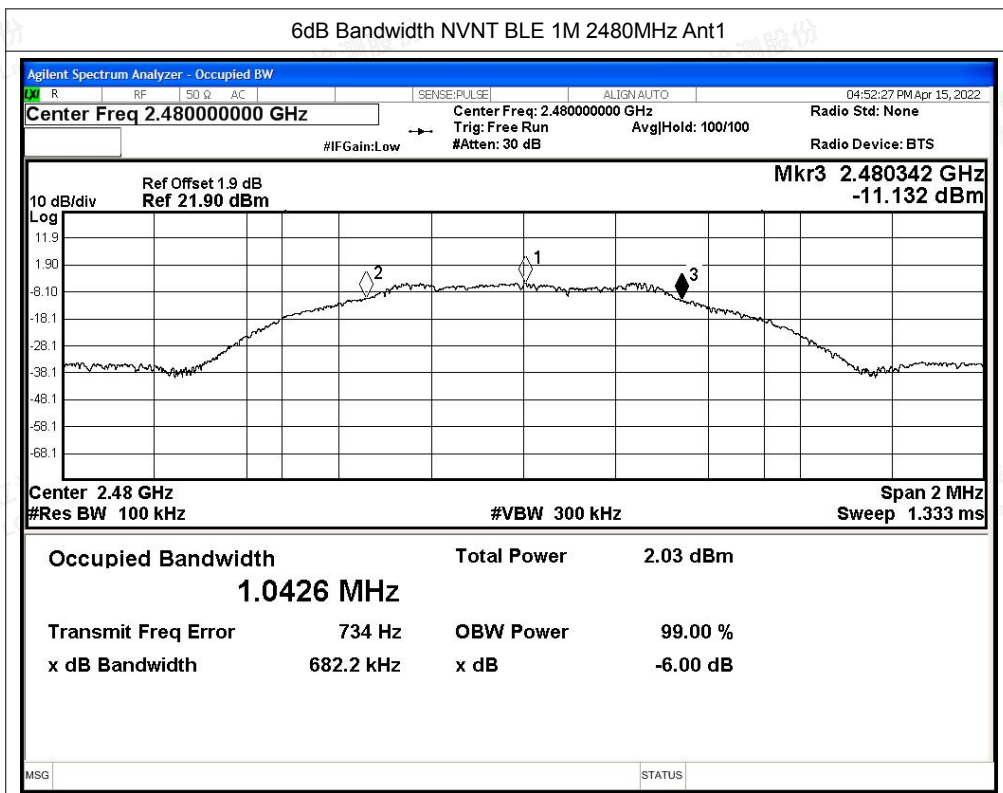


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B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-6.06	30	Pass
NVNT	BLE 1M	2440	Ant1	-8.3	30	Pass
NVNT	BLE 1M	2480	Ant1	-3.68	30	Pass



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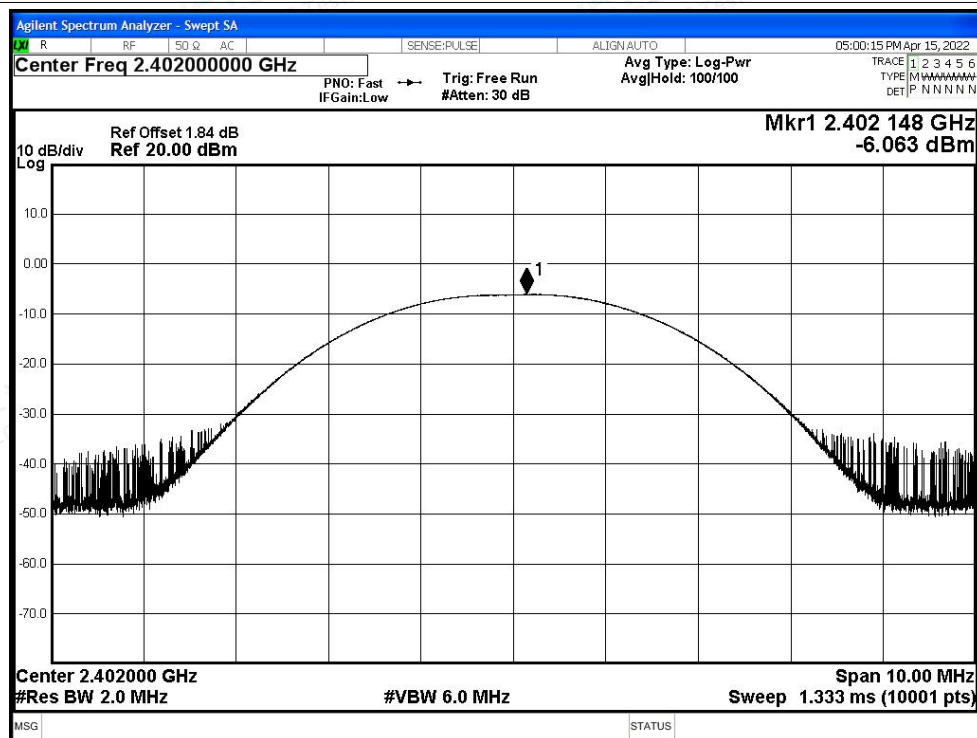
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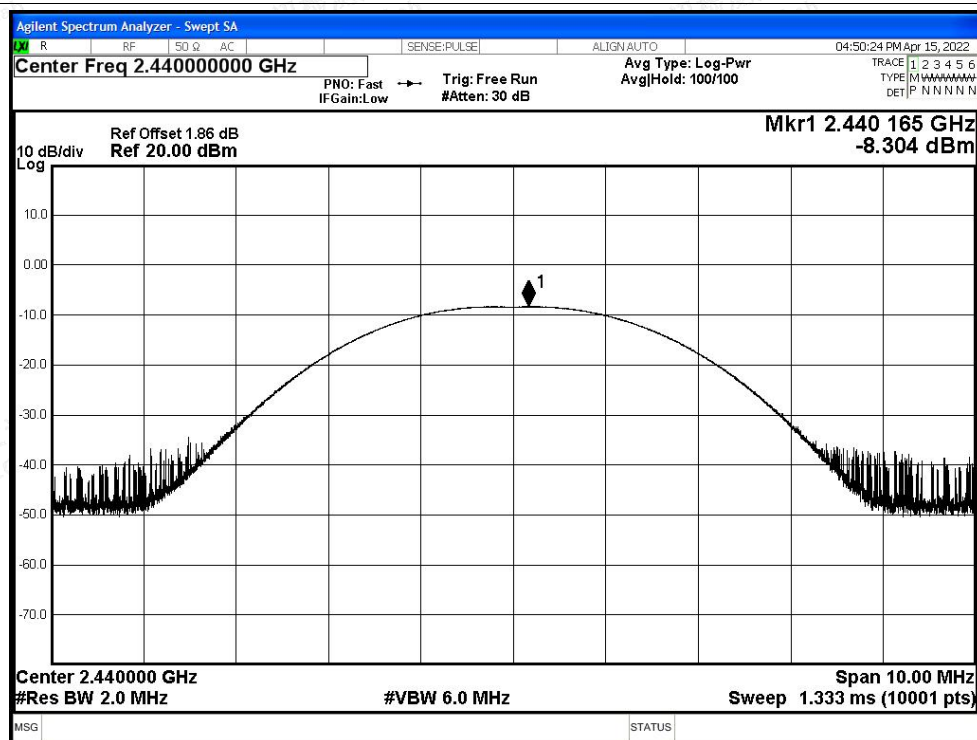


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

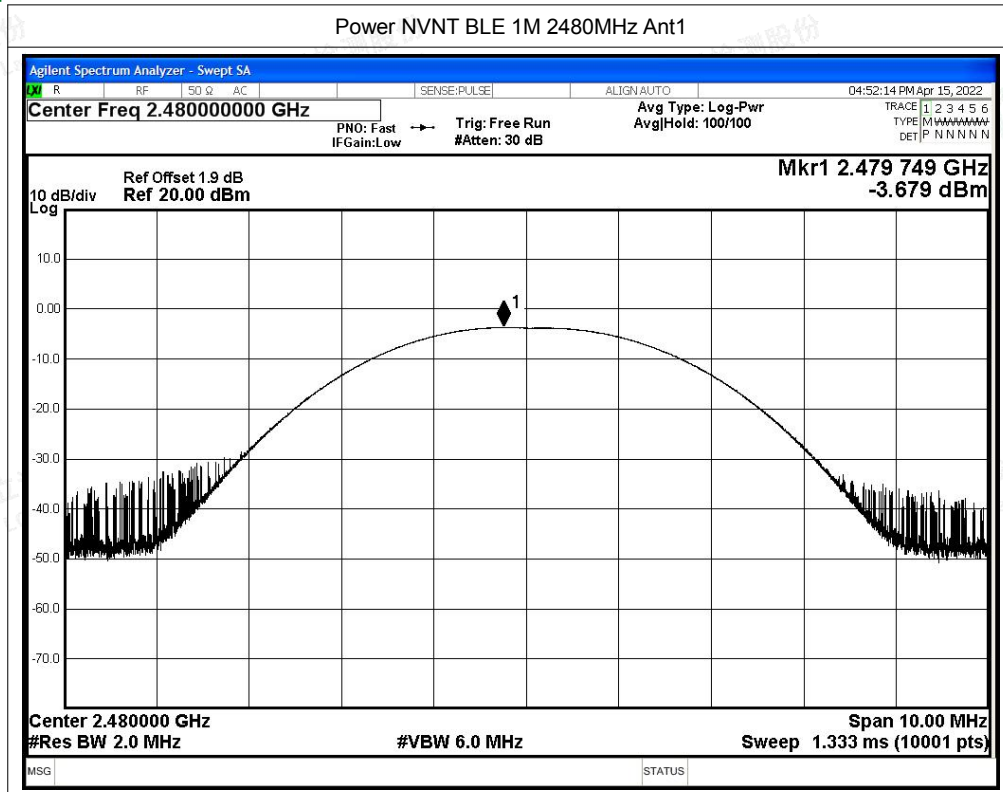


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B.3 Maximum Power Spectral Density Level

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	-21.56	0	-21.56	8	Pass
NVNT	BLE 1M	2440	Ant1	-17.71	0	-17.71	8	Pass
NVNT	BLE 1M	2480	Ant1	-19.14	0	-19.14	8	Pass



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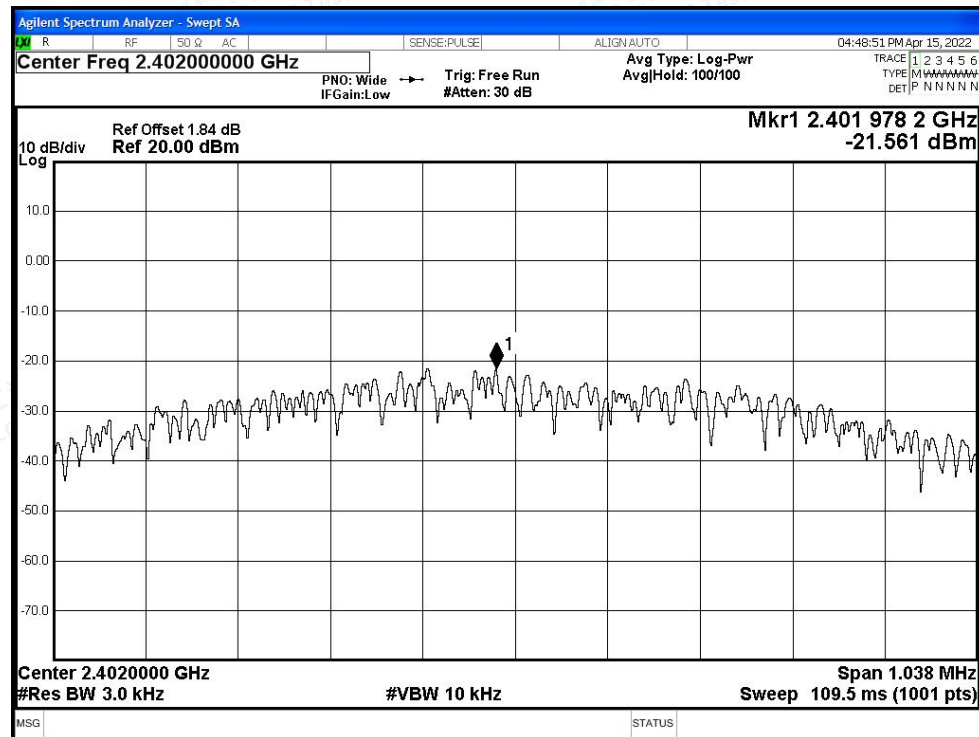
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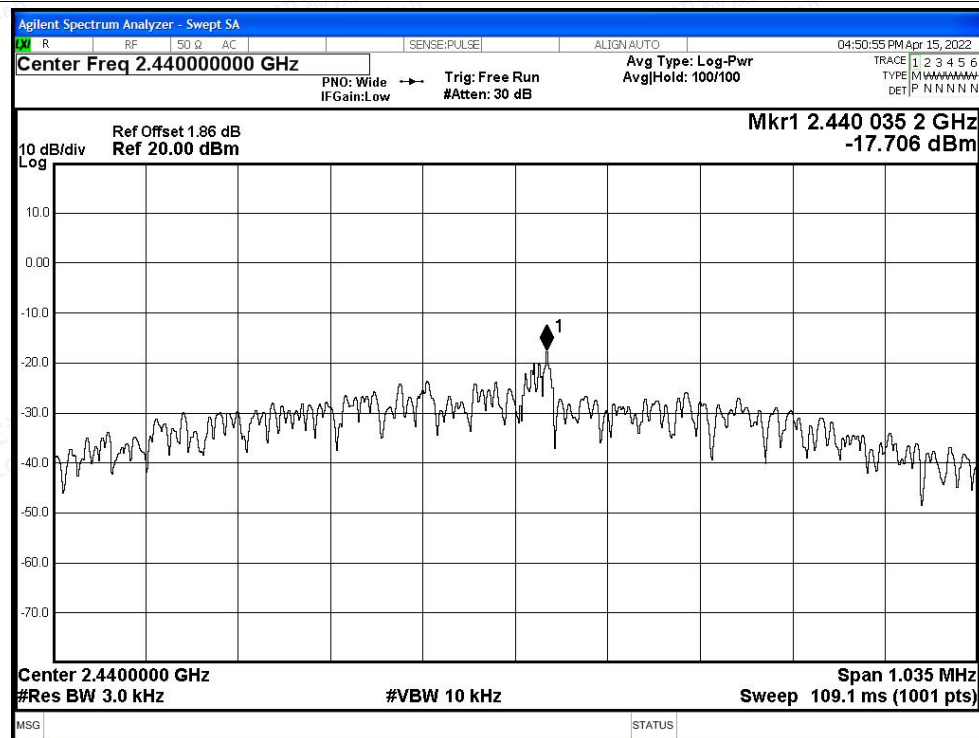


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

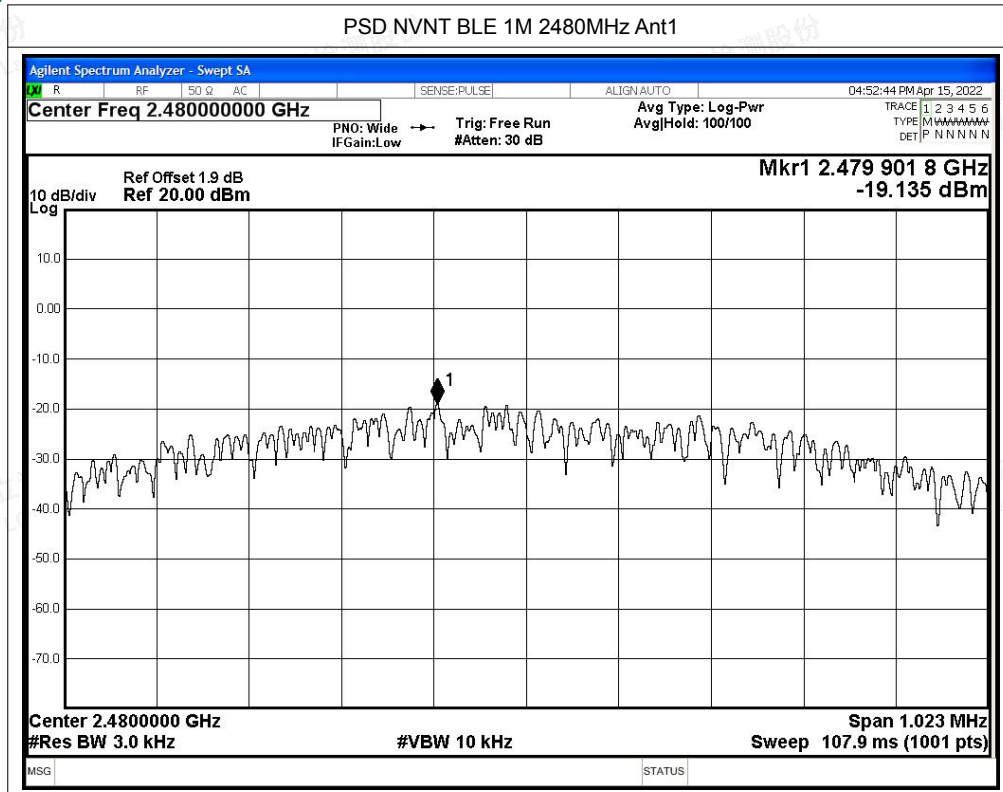


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-47.29	-20	Pass
NVNT	BLE 1M	2480	Ant1	-52.21	-20	Pass



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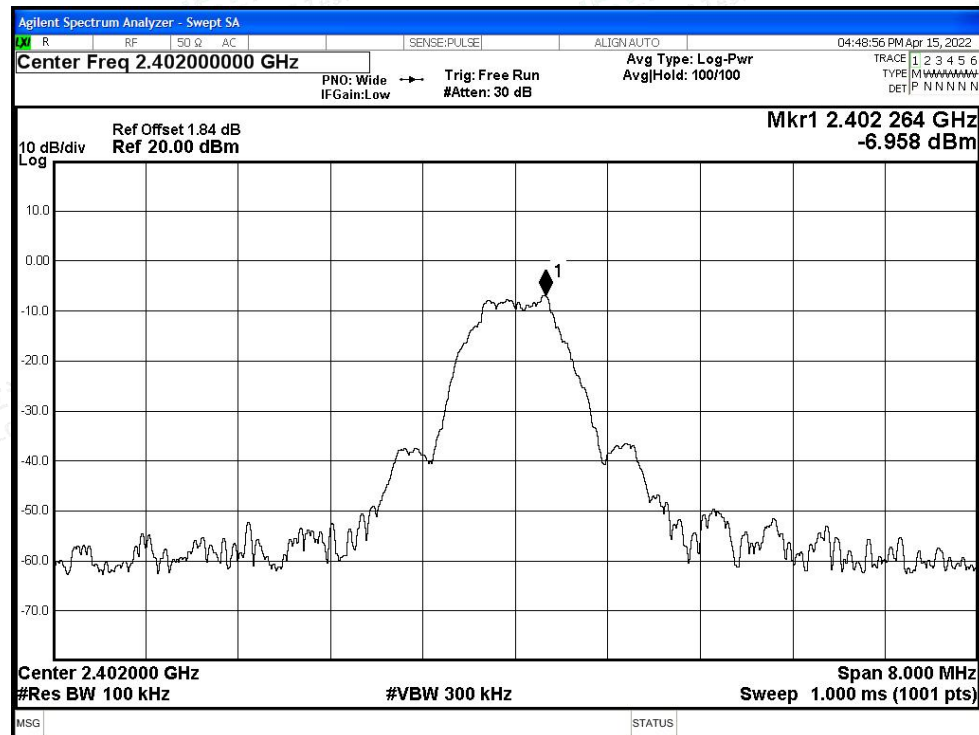
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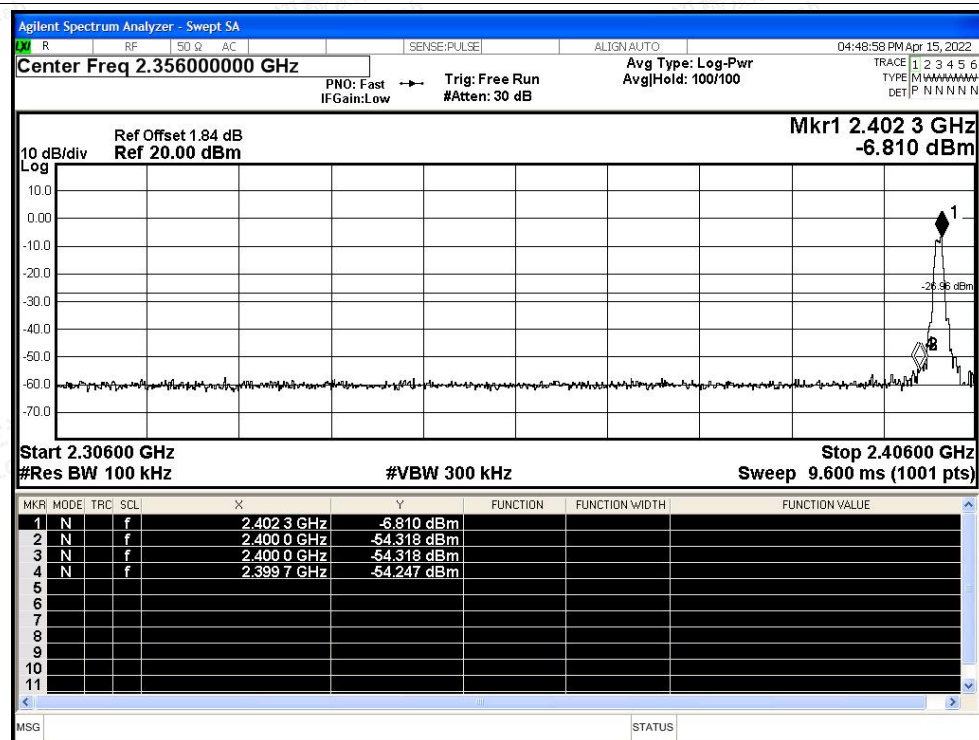


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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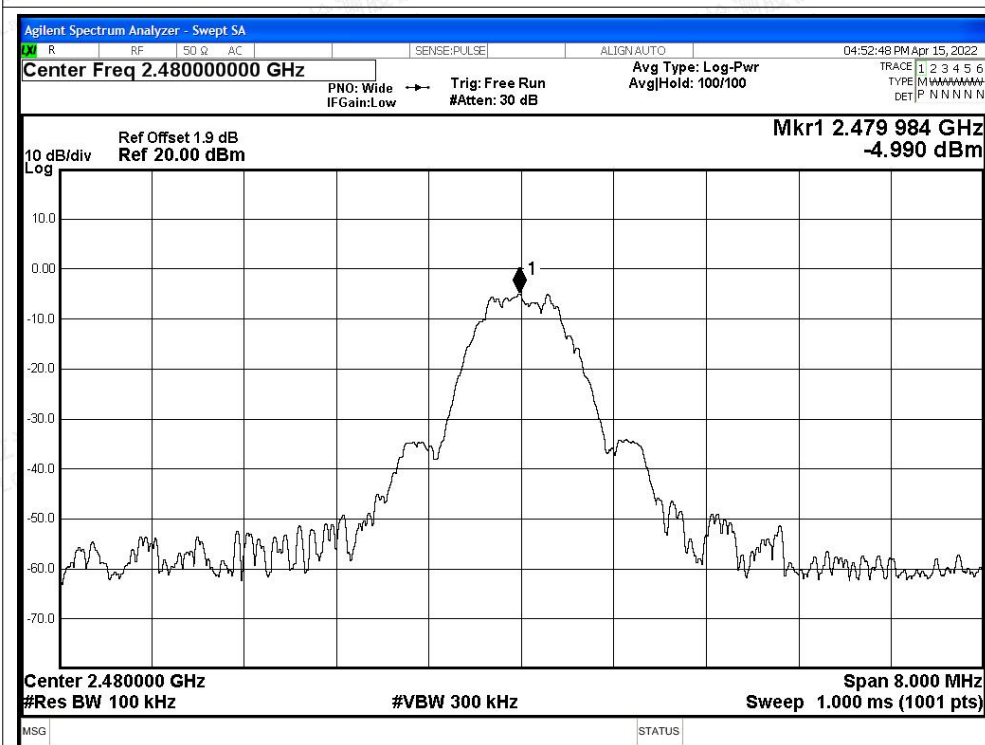
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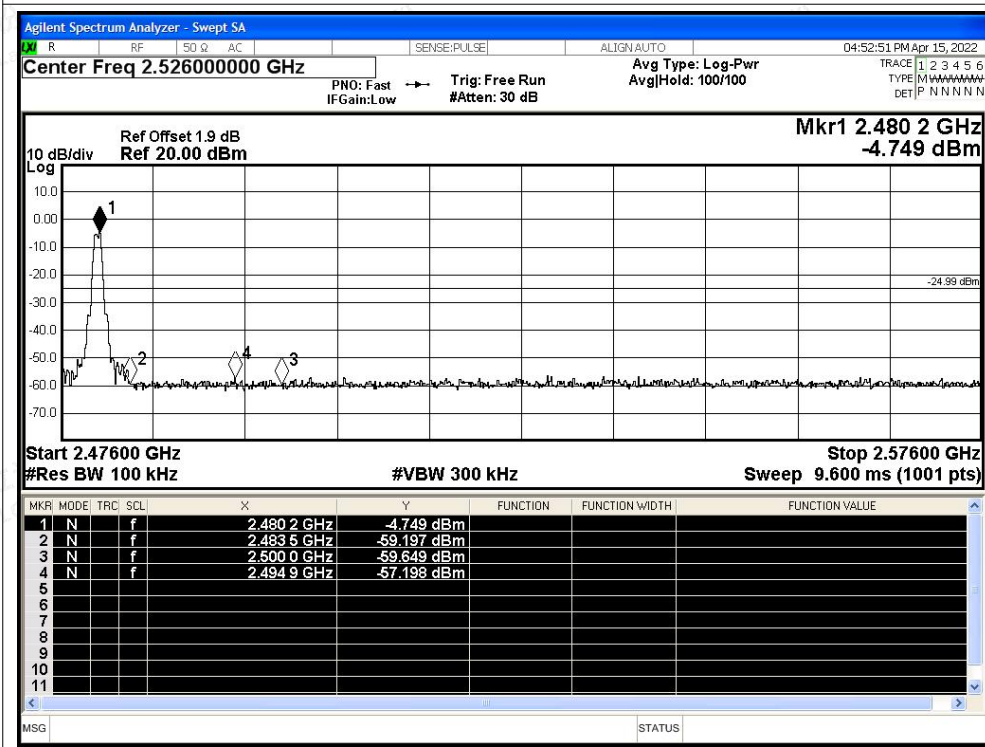
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 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	-48.35	-20	Pass
NVNT	BLE 1M	2440	Ant1	-45.88	-20	Pass
NVNT	BLE 1M	2480	Ant1	-50.33	-20	Pass



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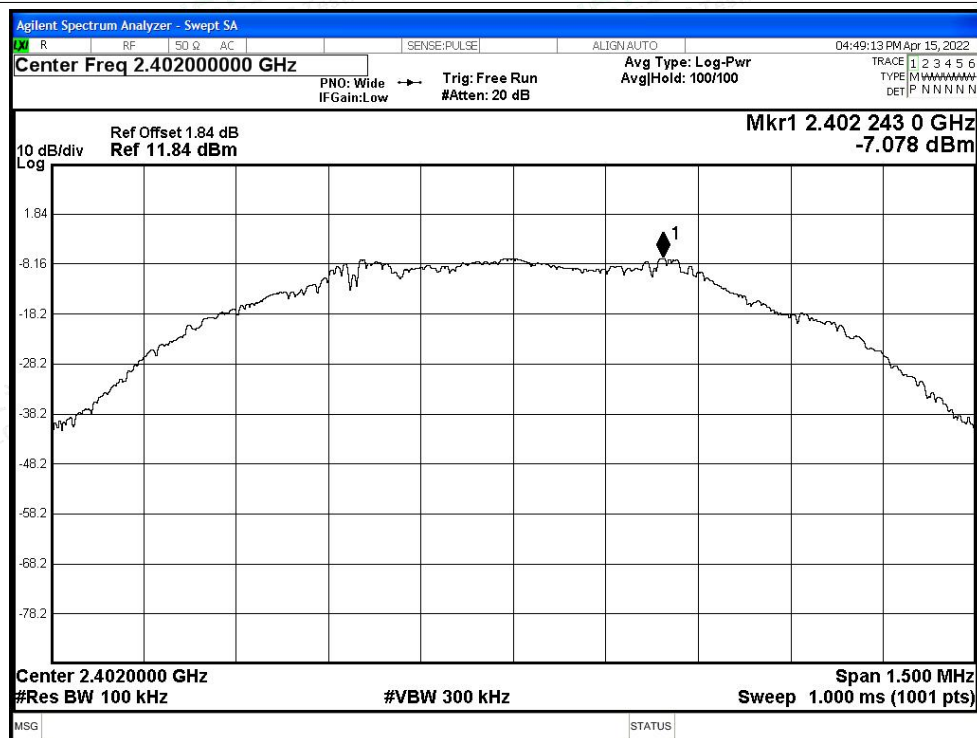
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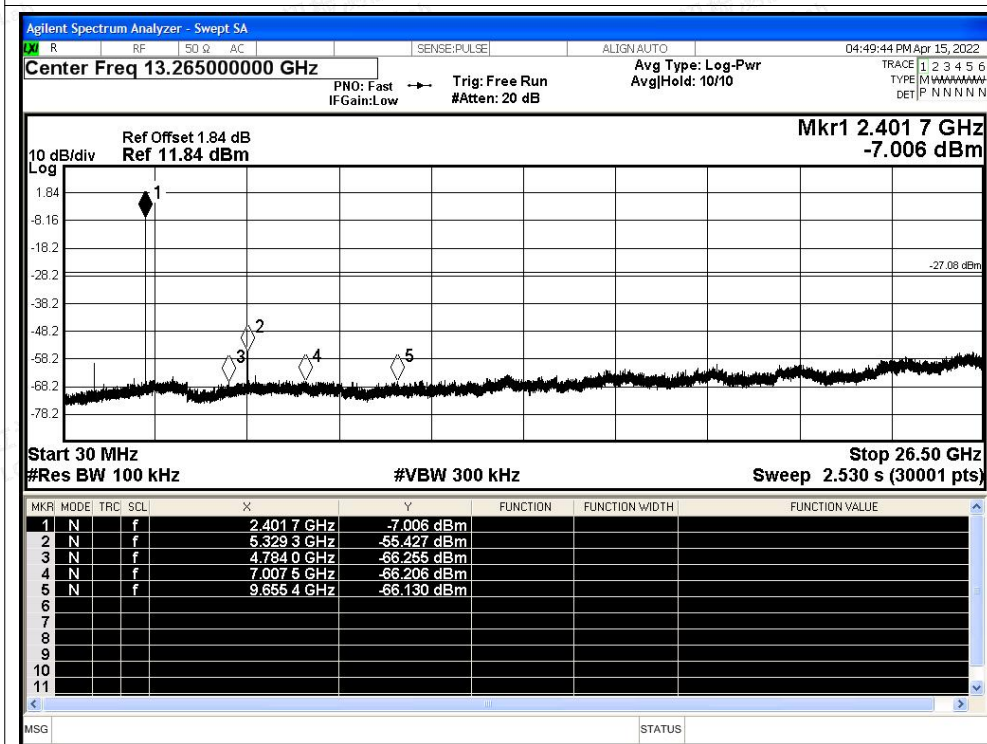


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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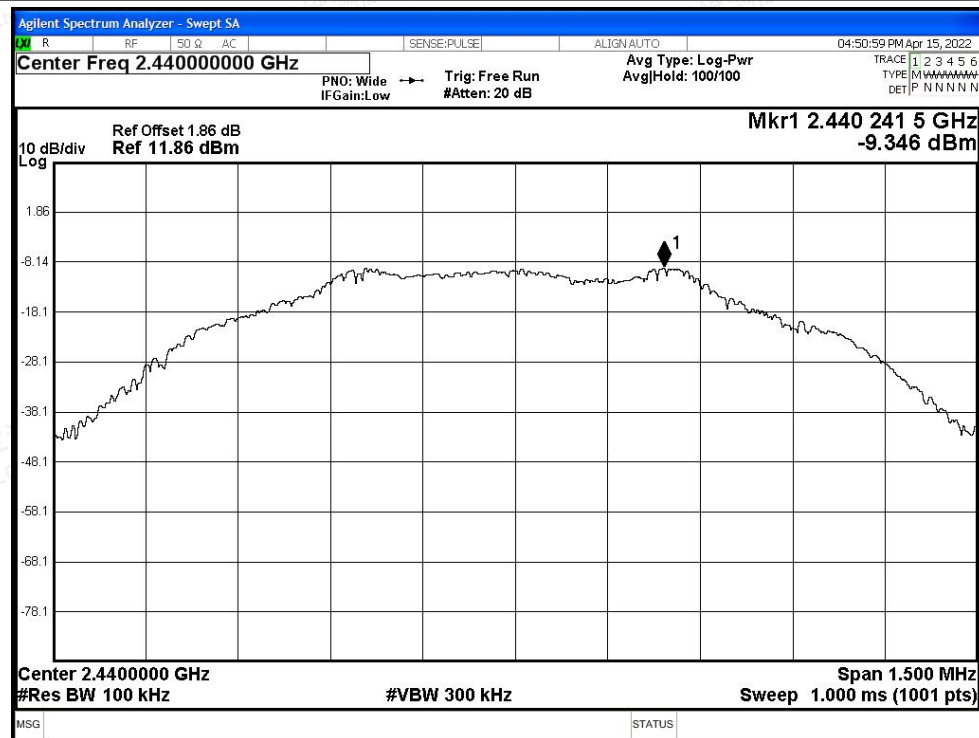
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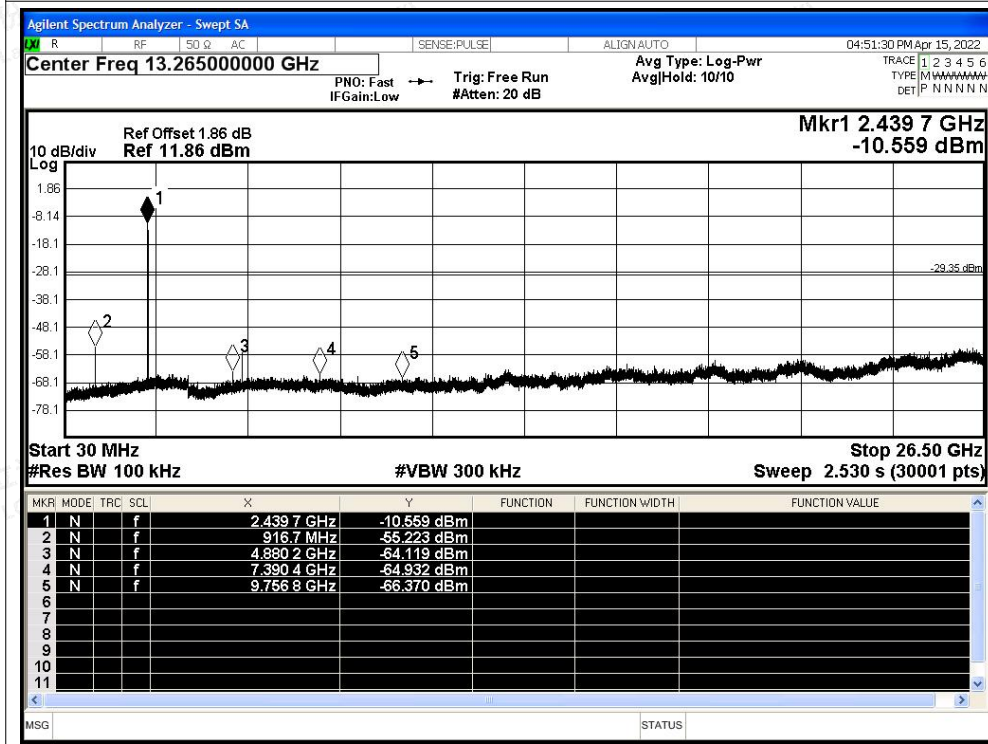
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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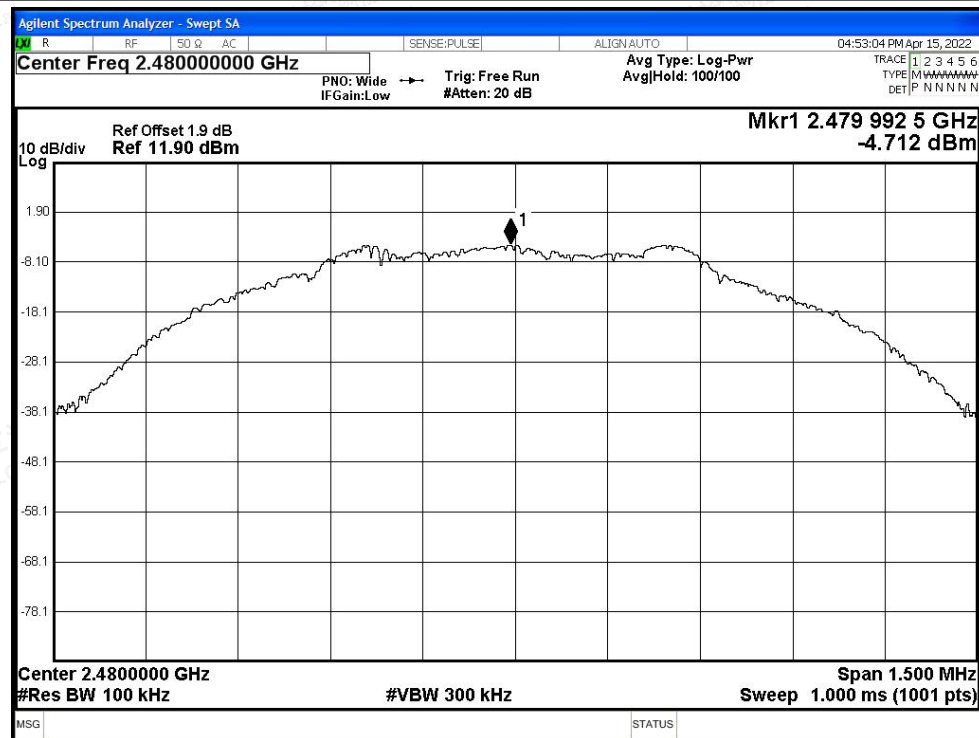
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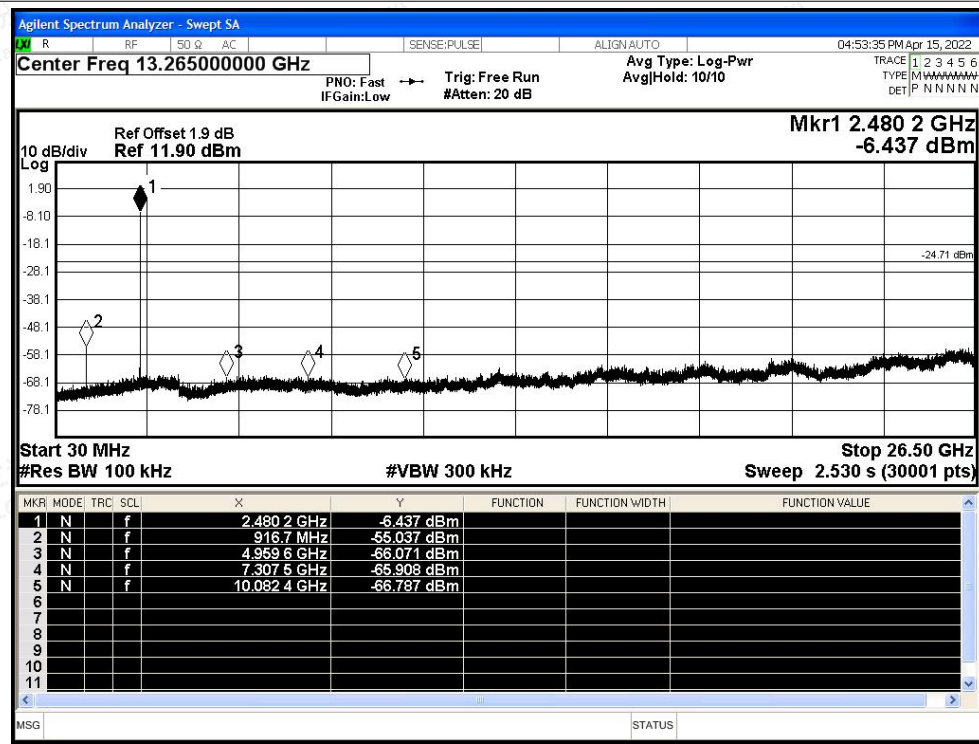
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.01	2.15	2.64
NVNT	BLE 1M	2440	Ant1	60.96	2.15	2.64
NVNT	BLE 1M	2480	Ant1	61.01	2.15	2.64



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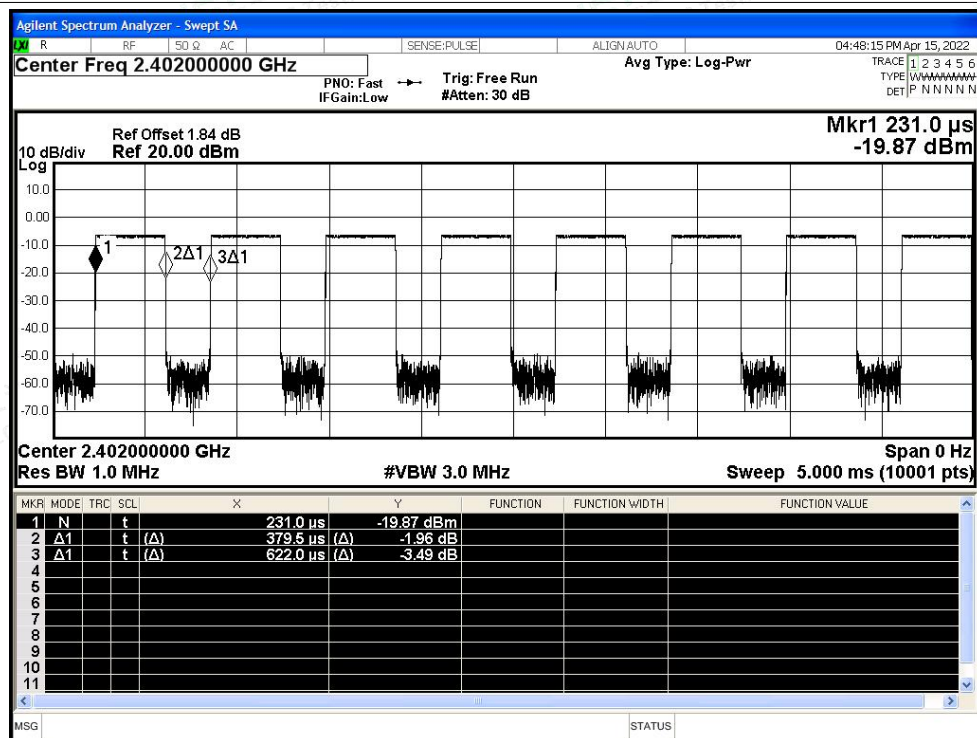
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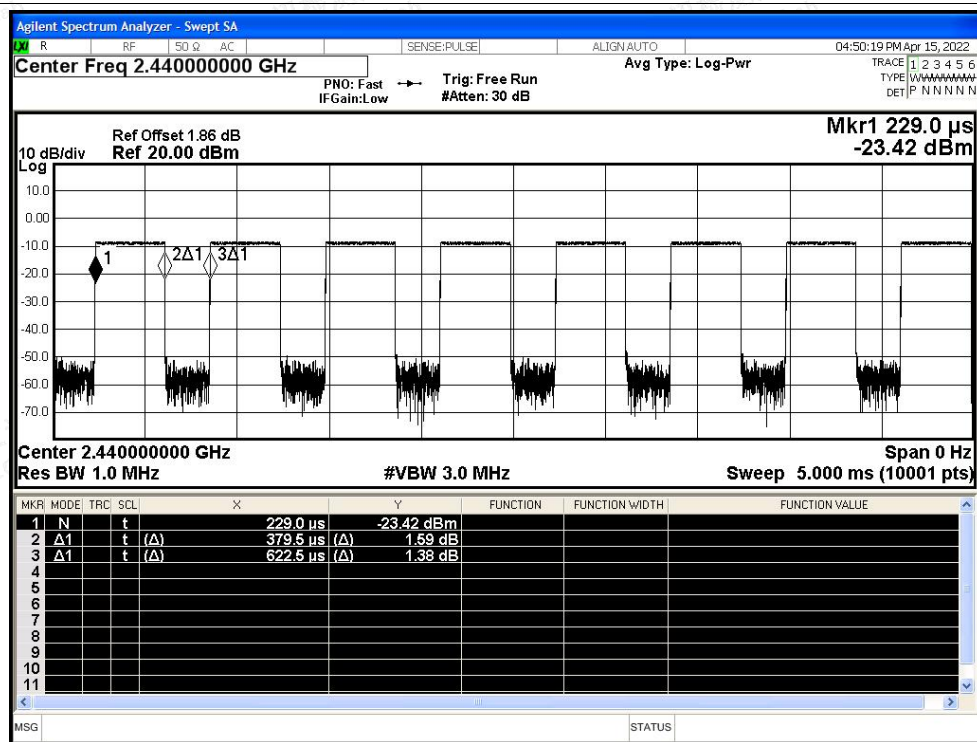


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

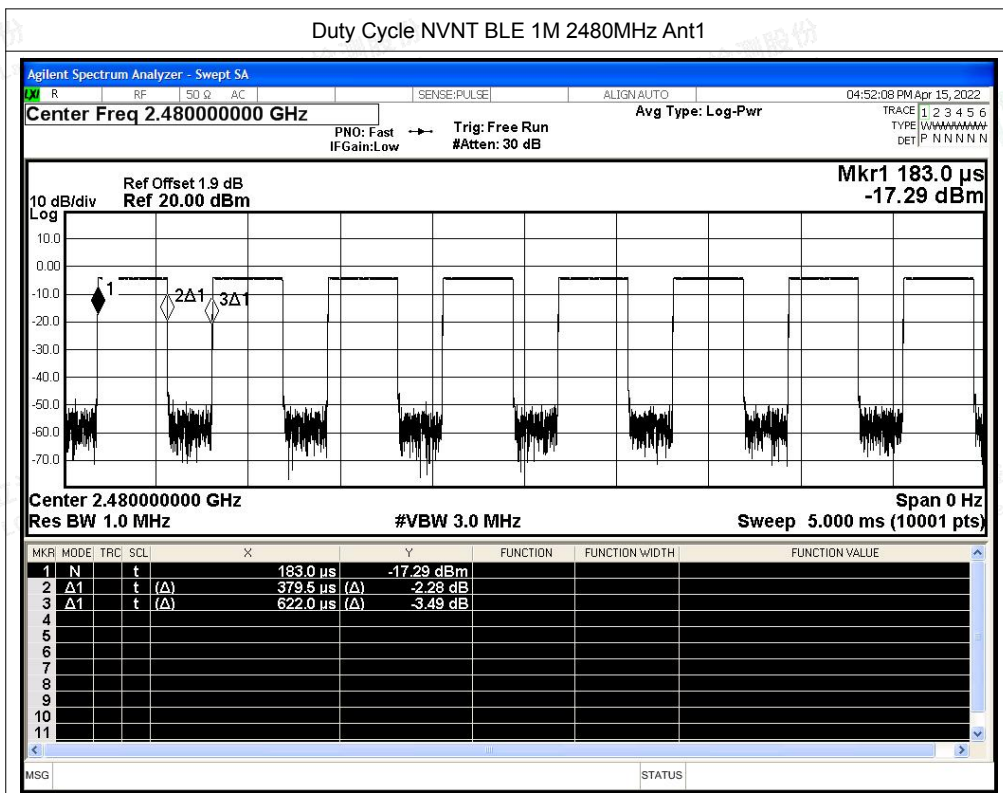


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B.7 Restrict Band

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	-51.48	2	45.78	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-59.67	2	37.59	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2313.456	-47.34	2	49.92	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2386.608	-59.03	2	38.23	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.99	2	47.27	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-59.23	2	38.03	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-43.18	2	54.08	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-59.26	2	38	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.608	-41.82	2	55.44	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2485.408	-58.7	2	38.56	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.65	2	46.61	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-59.21	2	38.05	Average	54	Pass



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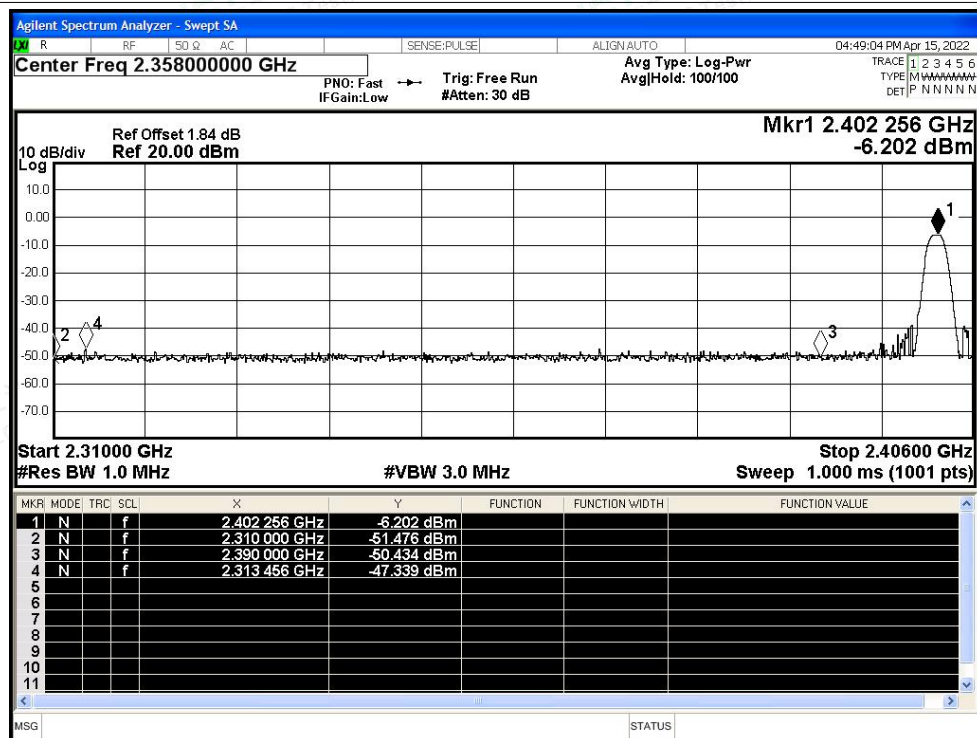
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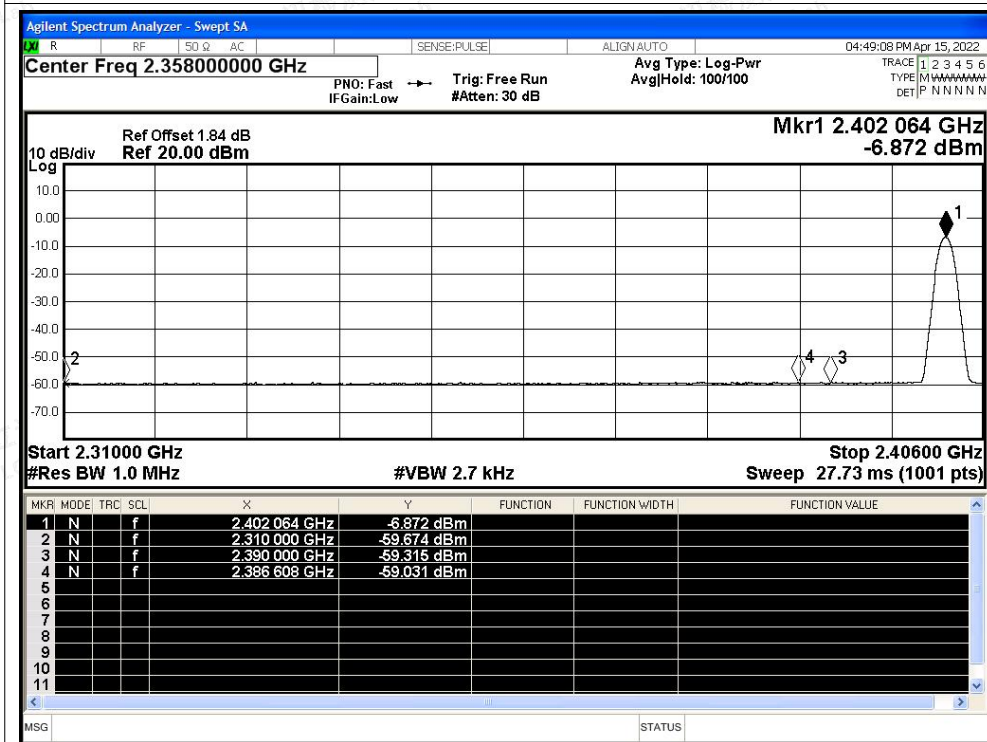


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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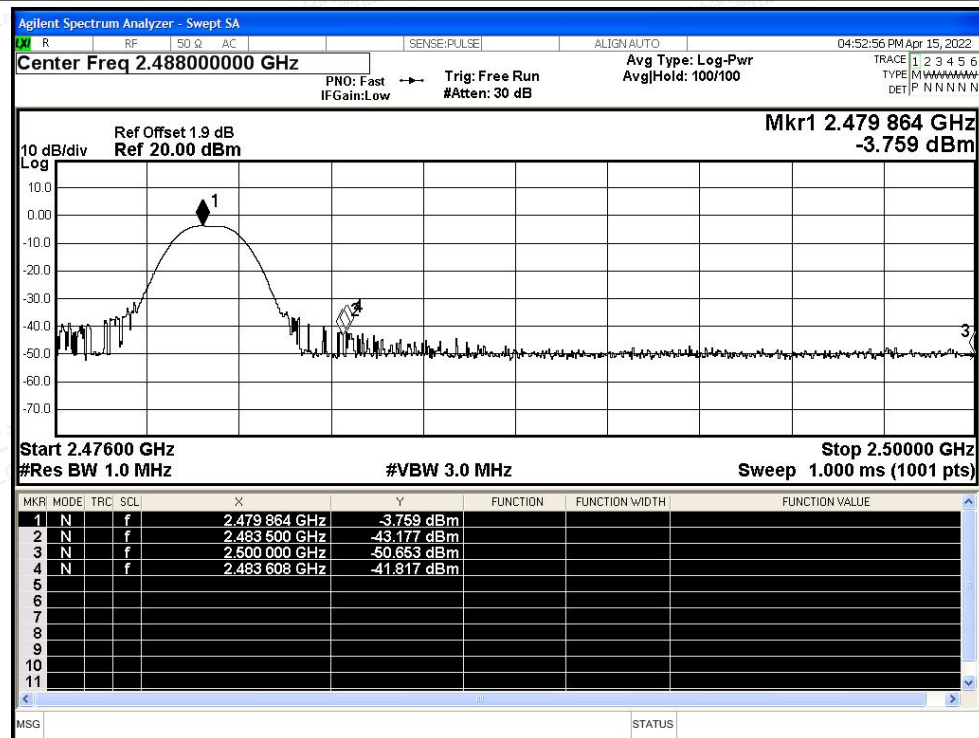
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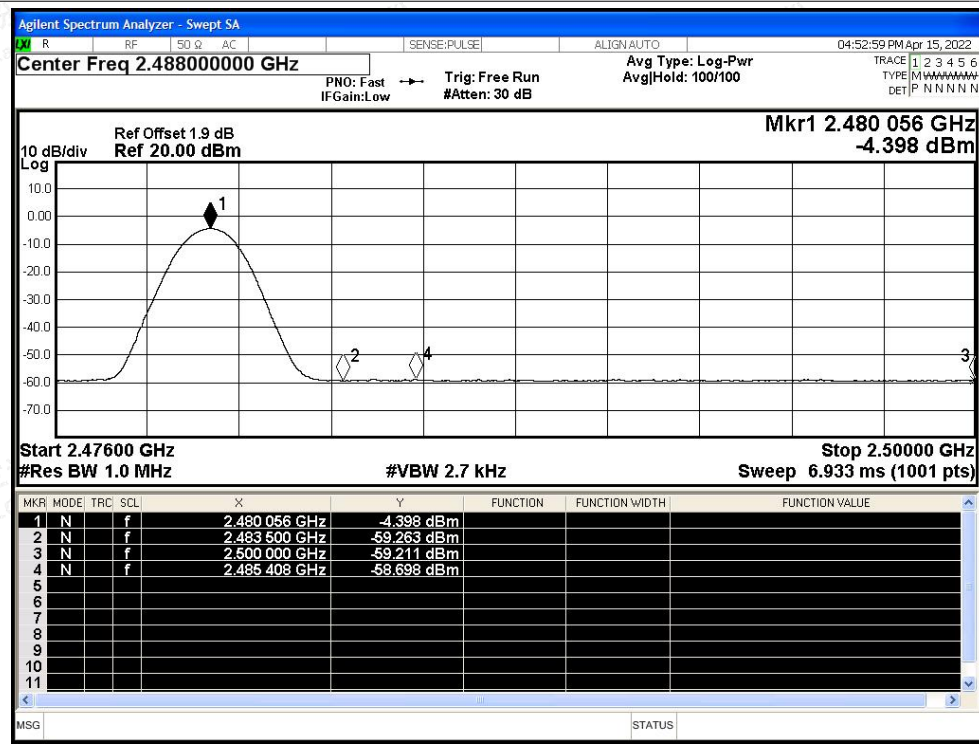
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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