



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Massager

Test Model: ZOR-106

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

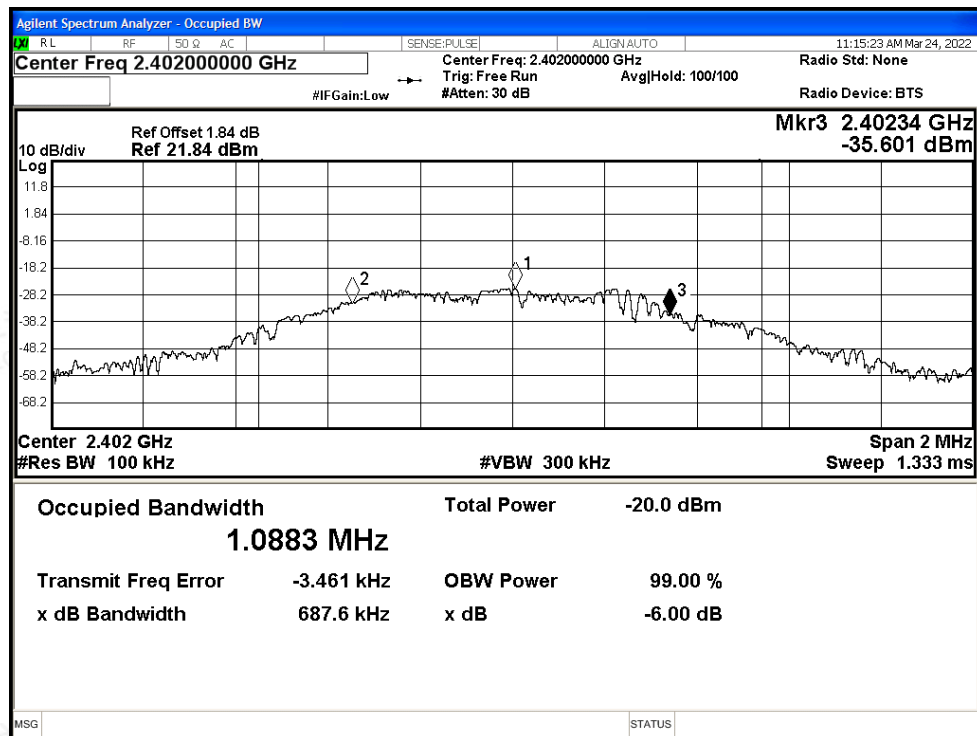
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.688	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.668	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.676	0.5	Pass



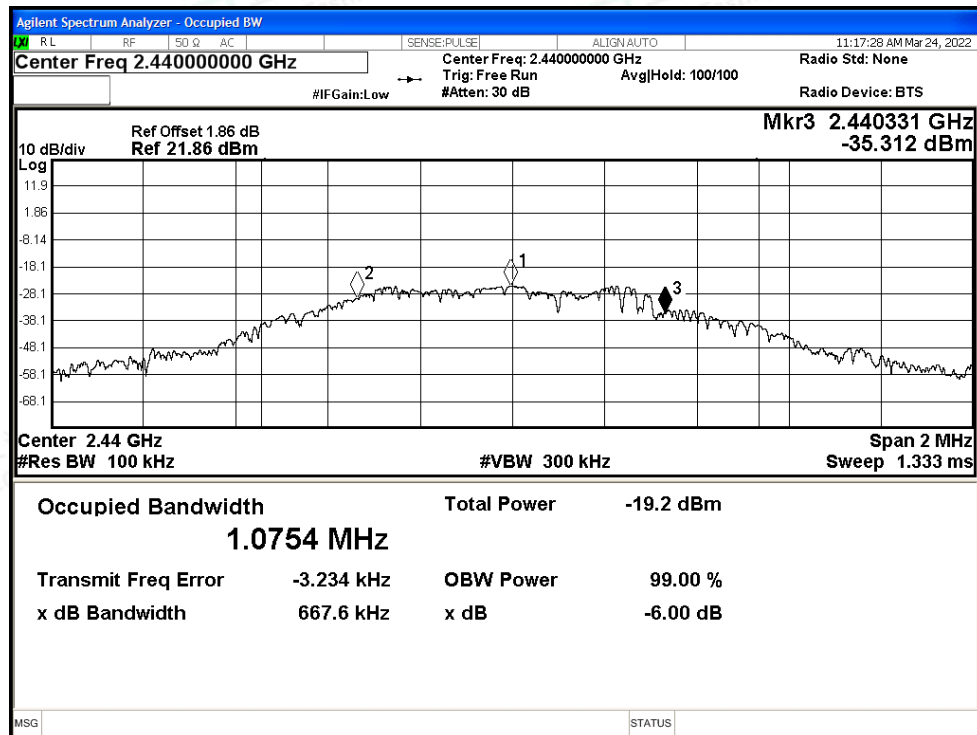


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

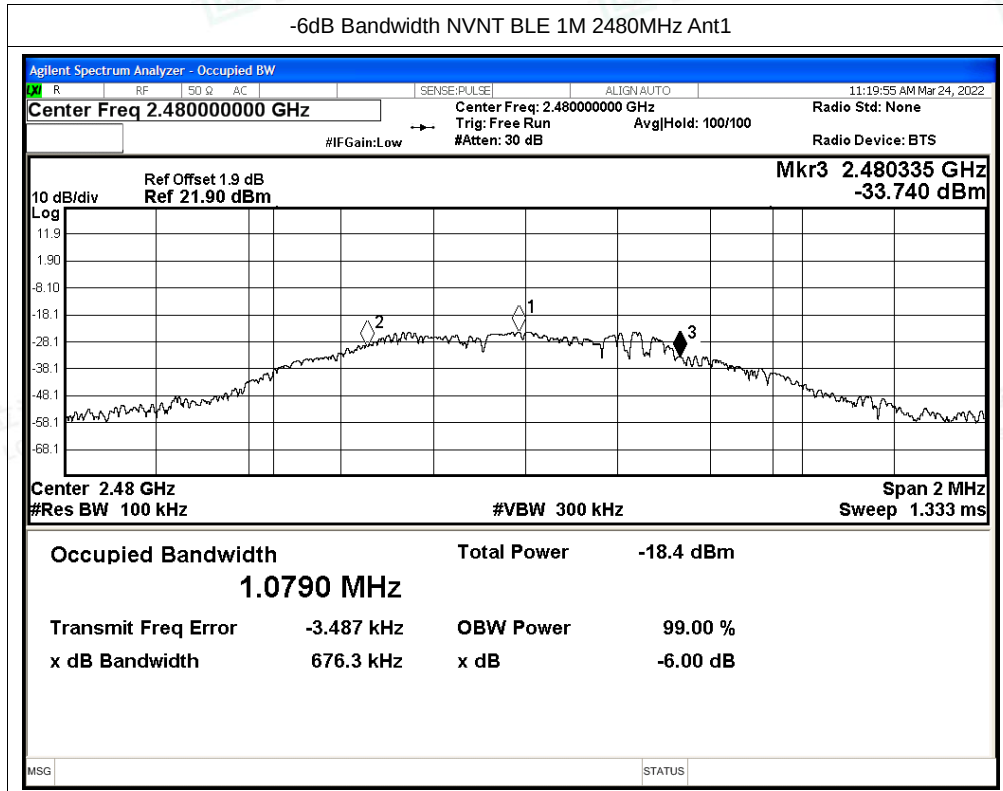


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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-24.24	0	-24.24	30	Pass
NVNT	BLE 1M	2440	Ant1	-23.82	0	-23.82	30	Pass
NVNT	BLE 1M	2480	Ant1	-22.9	0	-22.9	30	Pass



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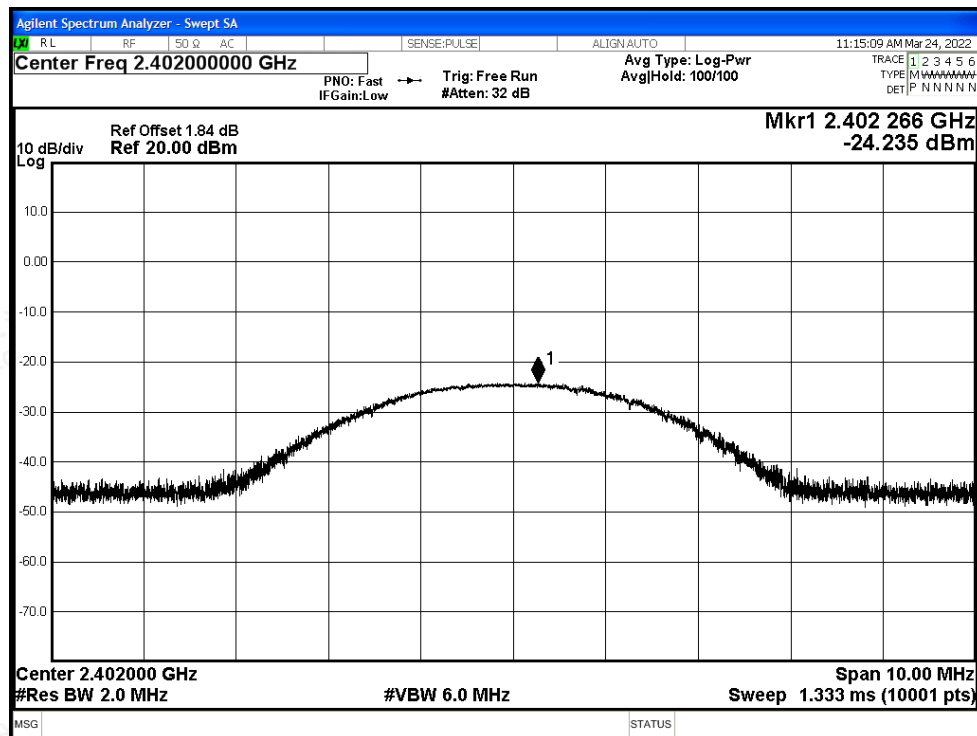
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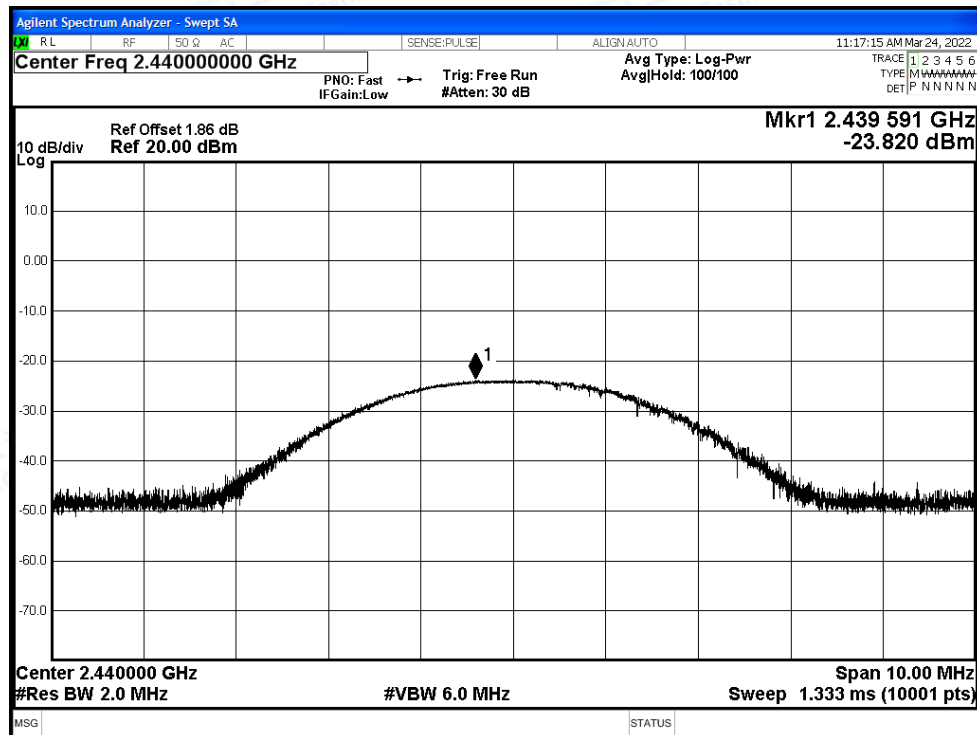


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

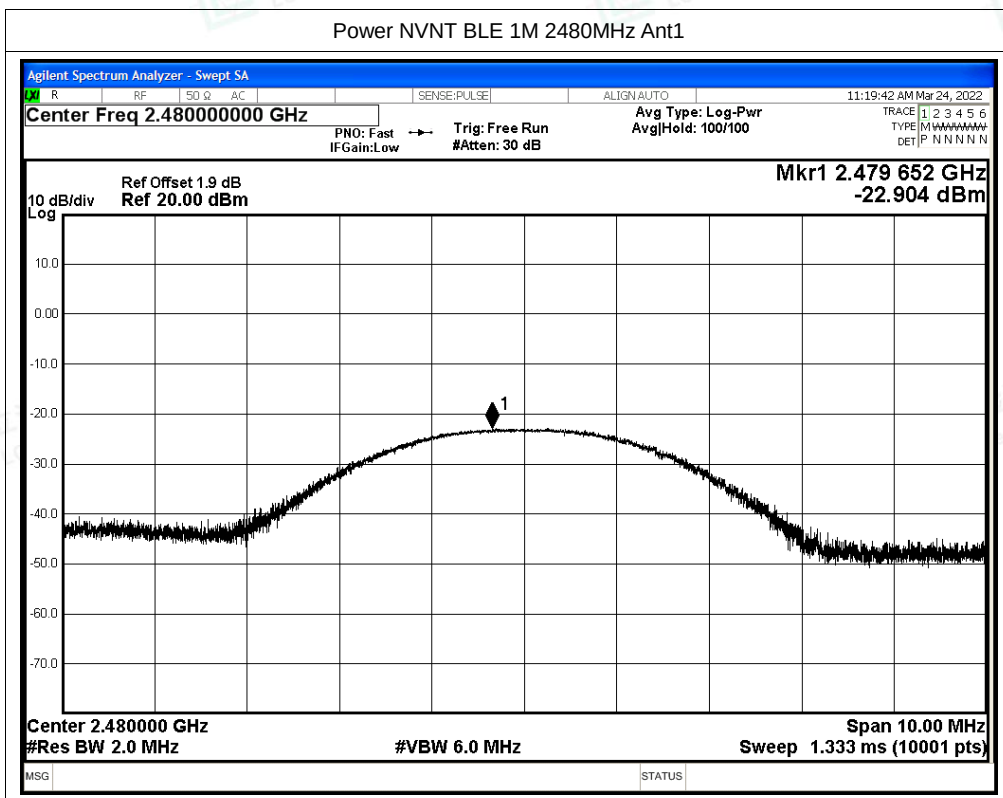


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A.3 Maximum Power Spectral Density Level

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	-43.41	0	-43.41	8	Pass
NVNT	BLE 1M	2440	Ant1	-42.86	0	-42.86	8	Pass
NVNT	BLE 1M	2480	Ant1	-42.1	0	-42.1	8	Pass



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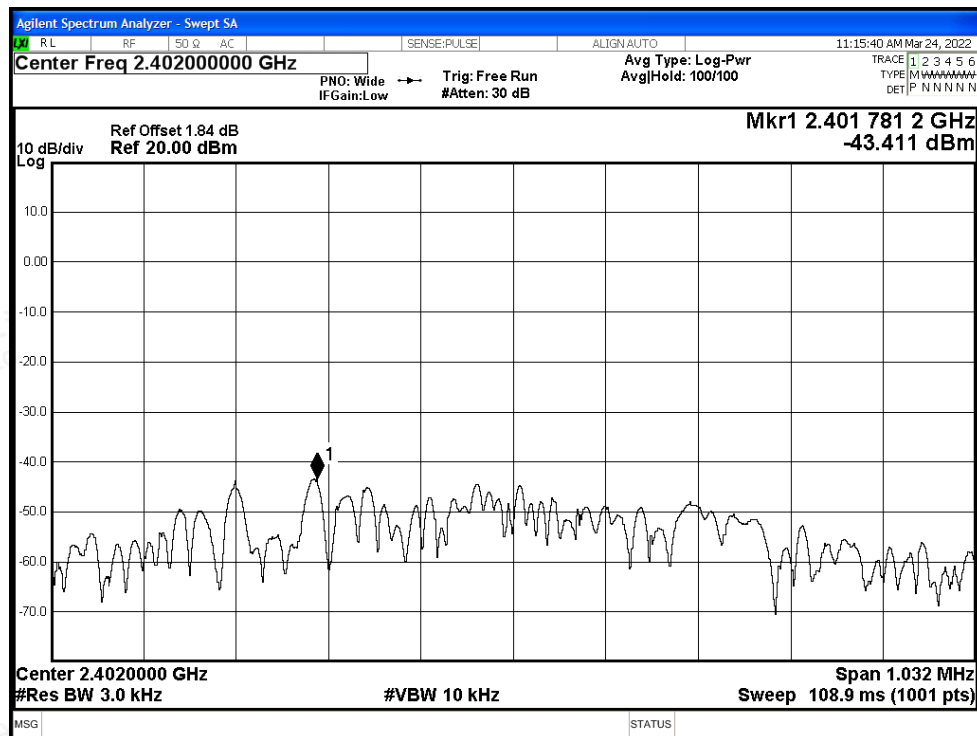
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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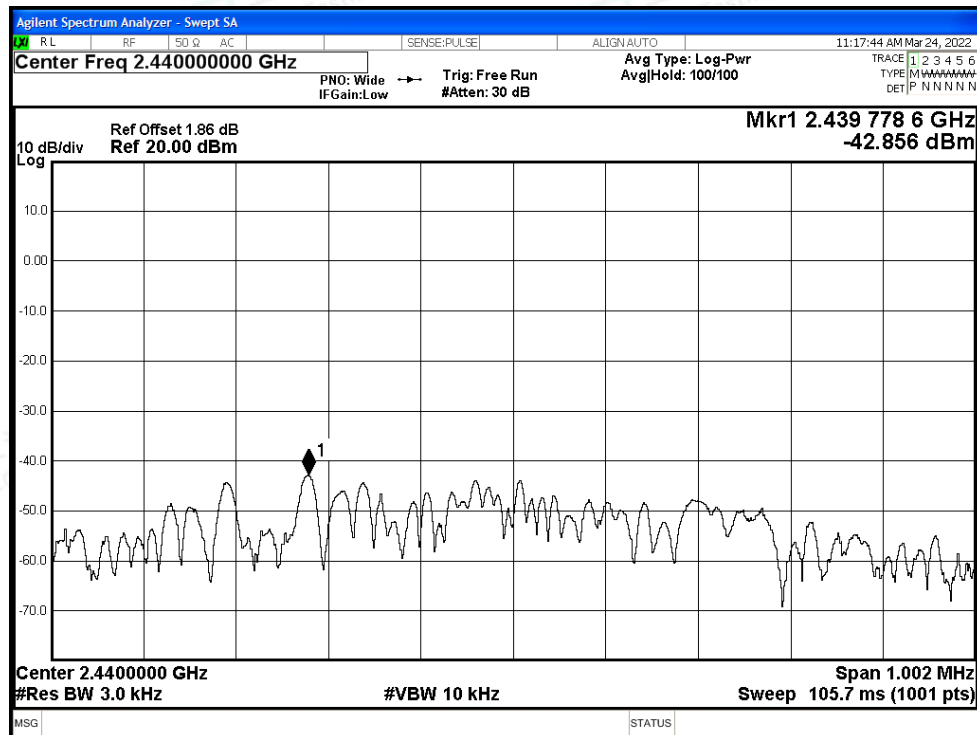


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

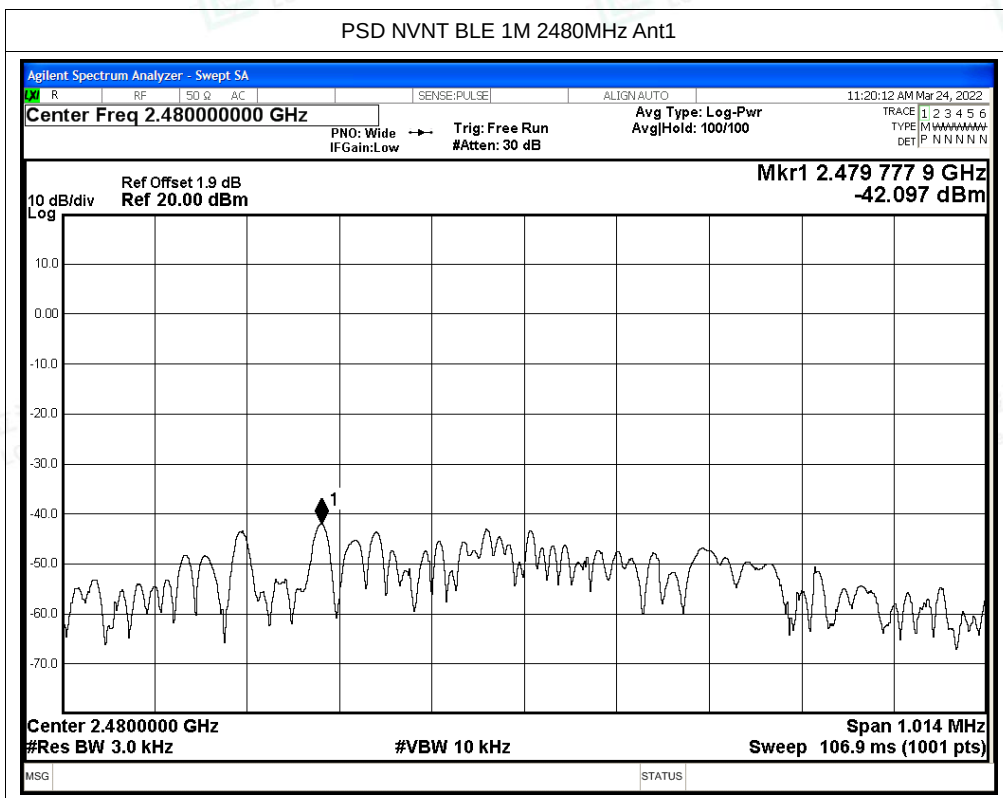


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A.4 Band Edge

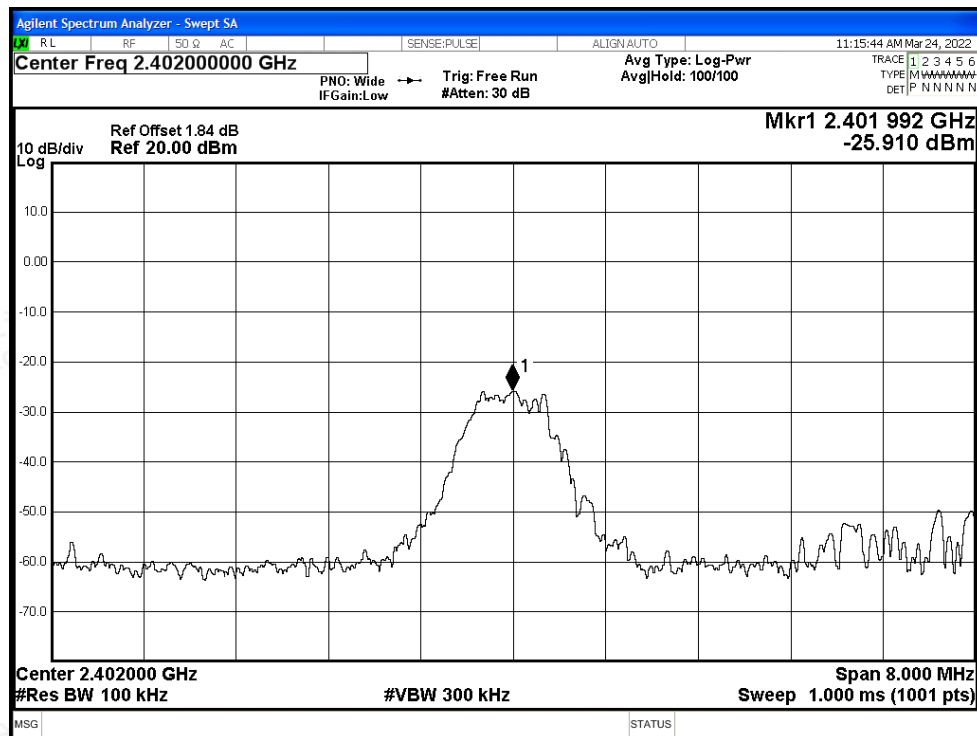
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-30.1	-20	Pass
NVNT	BLE 1M	2480	Ant1	-31.8	-20	Pass



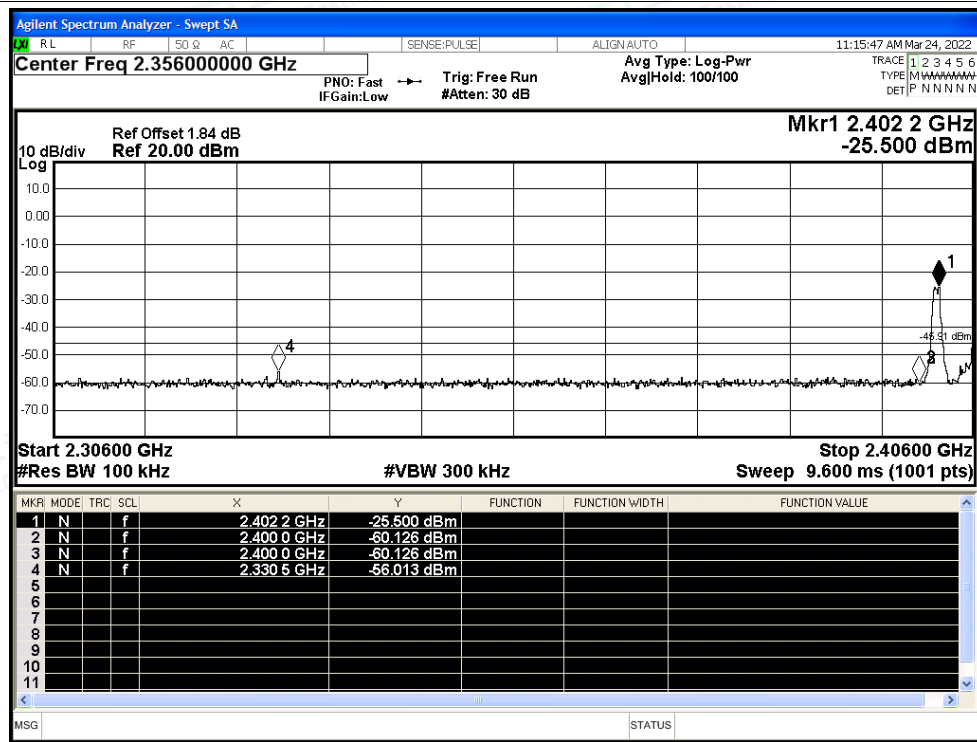


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

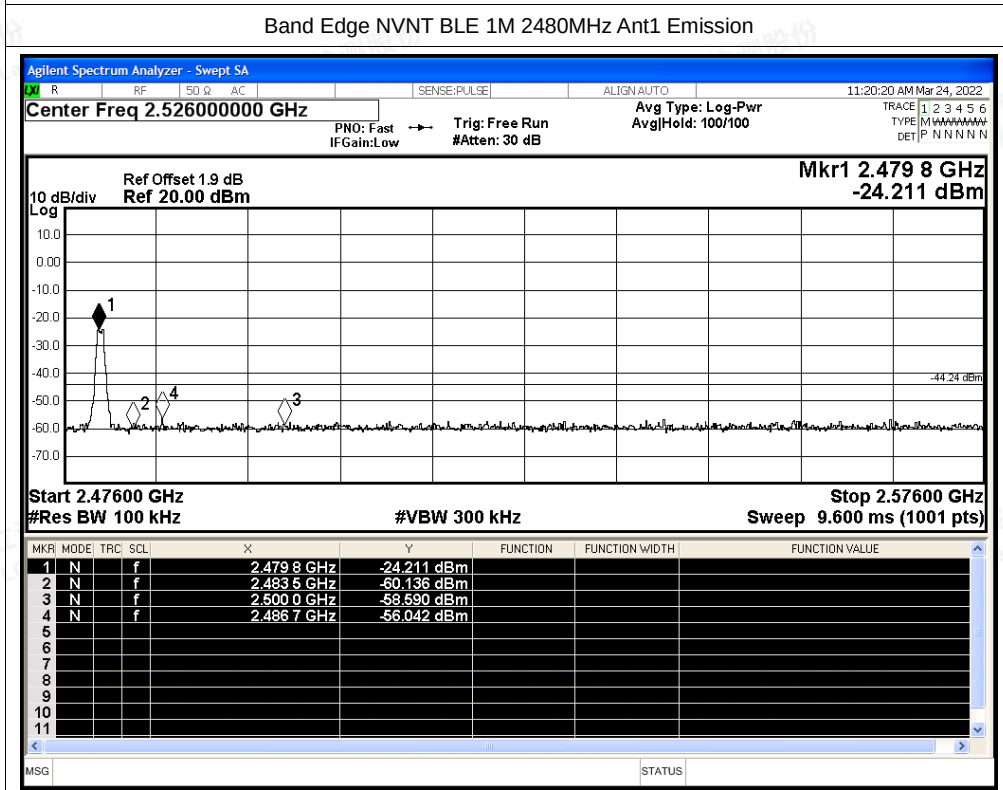
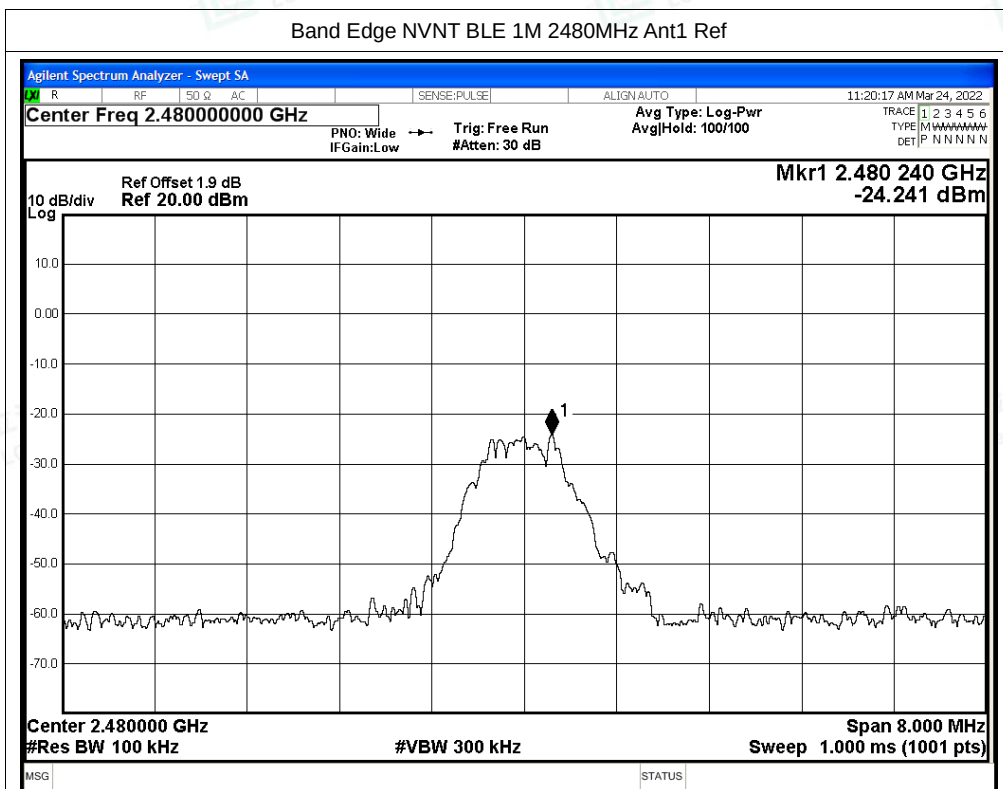


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A.5 Conducted RF Spurious Emission

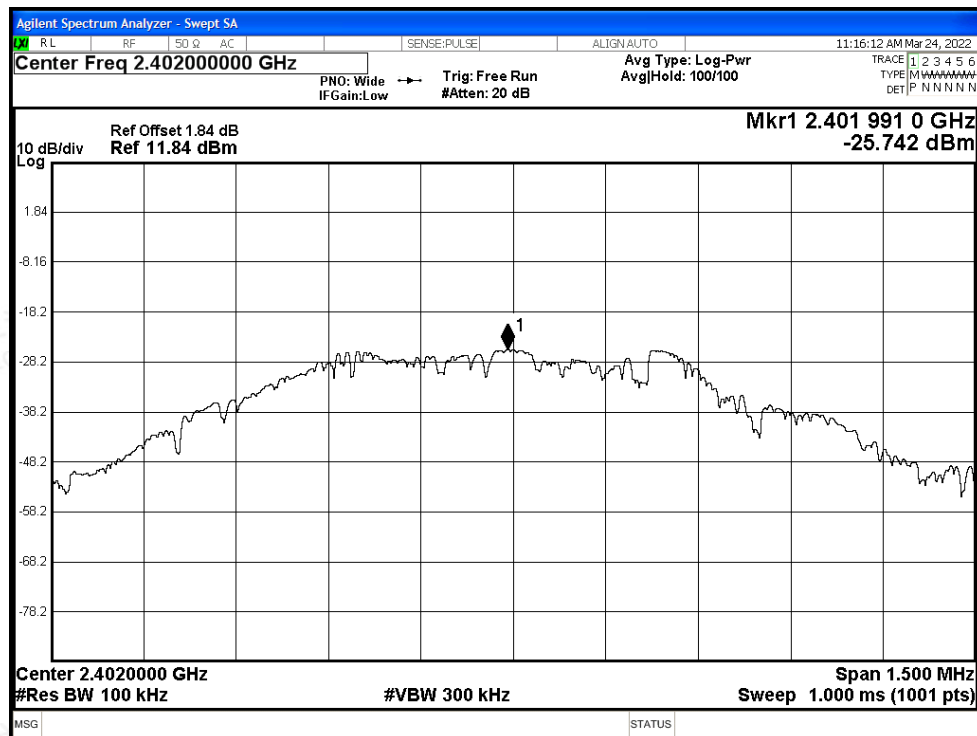
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-30.02	-20	Pass
NVNT	BLE 1M	2440	Ant1	-30.56	-20	Pass
NVNT	BLE 1M	2480	Ant1	-31.62	-20	Pass



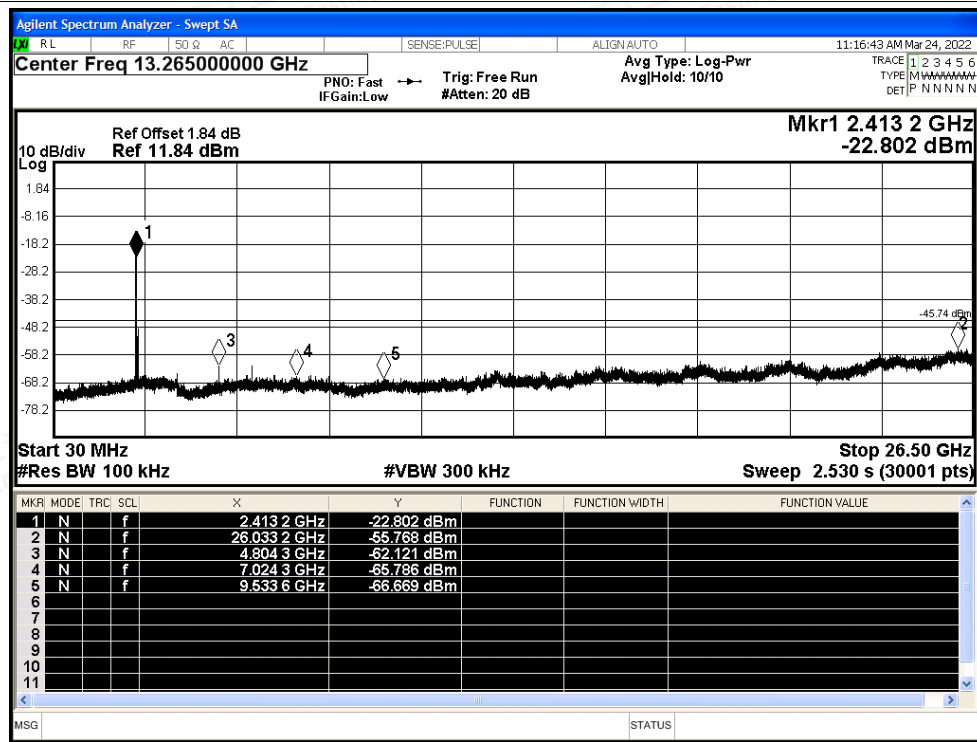


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

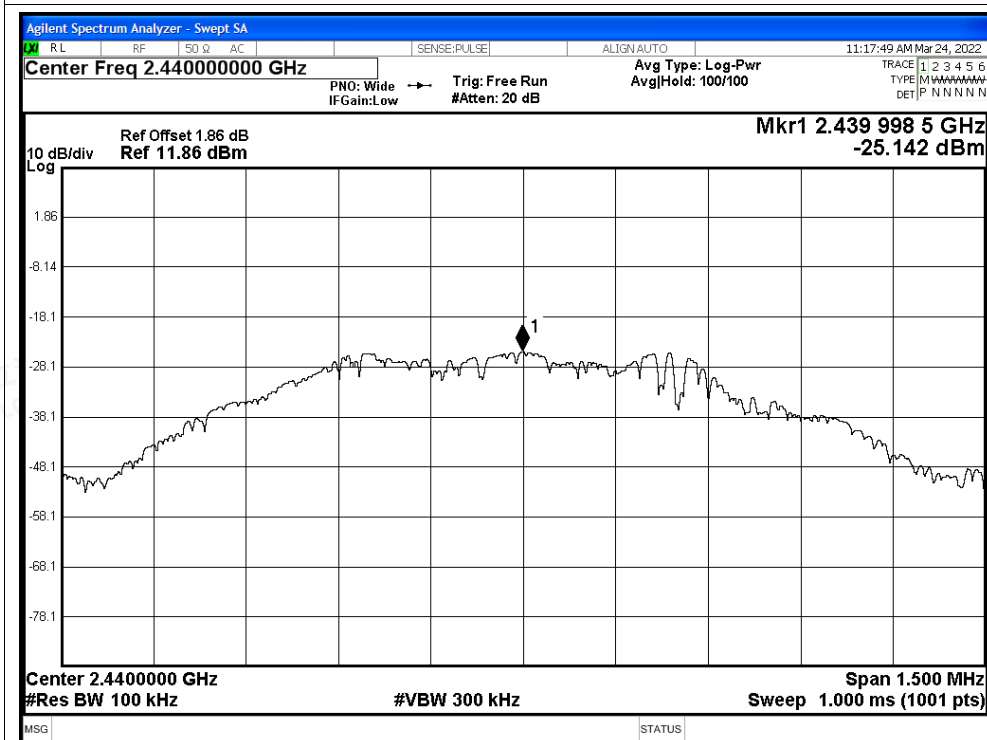
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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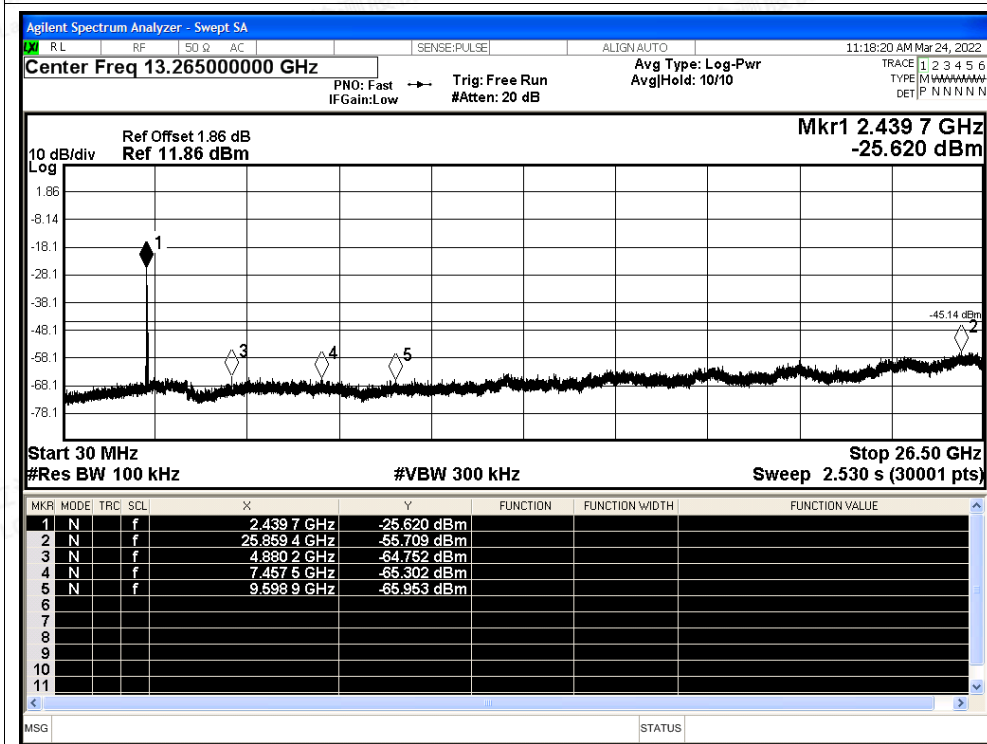
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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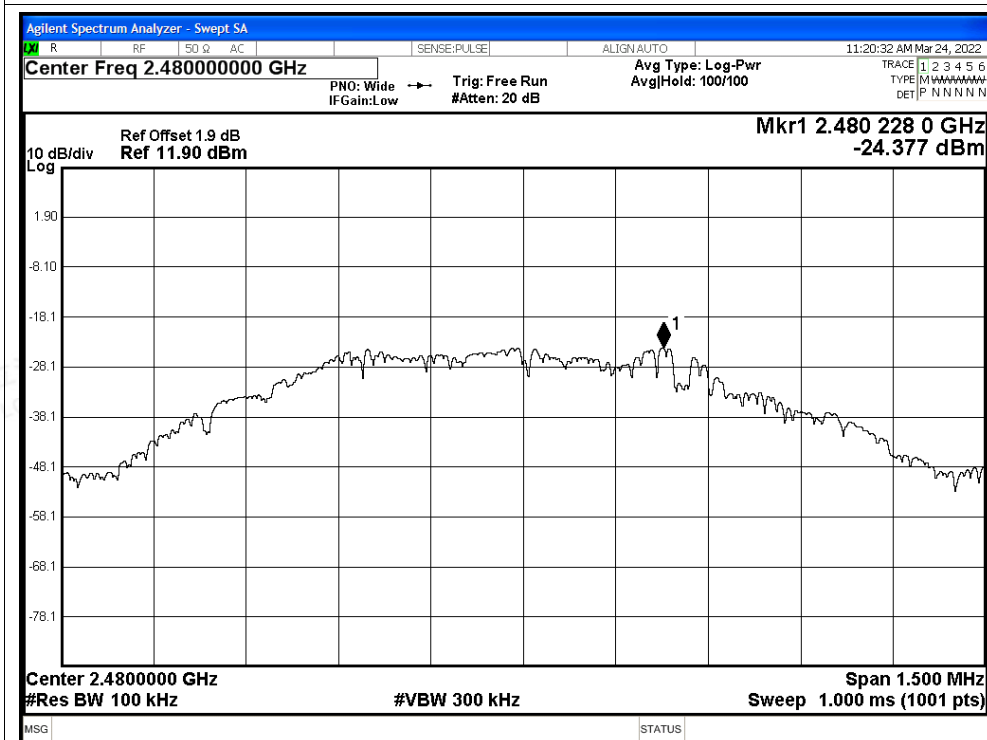
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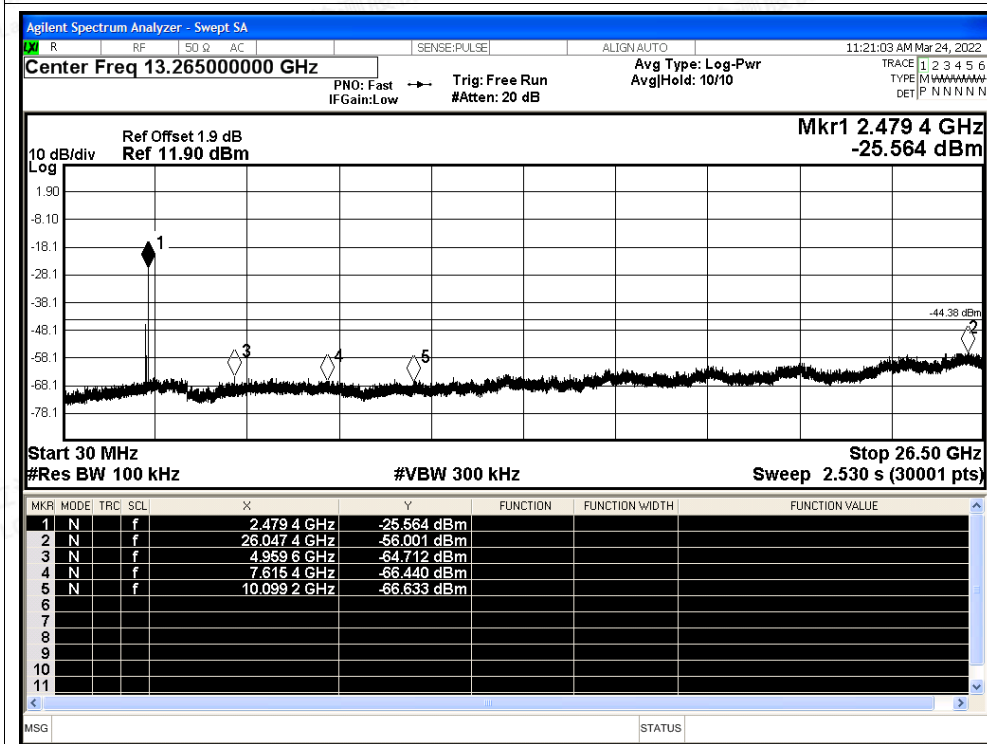
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	15.37	8.13	10.75
NVNT	BLE 1M	2440	Ant1	15.82	8.01	10.36
NVNT	BLE 1M	2480	Ant1	15.16	8.19	10.81



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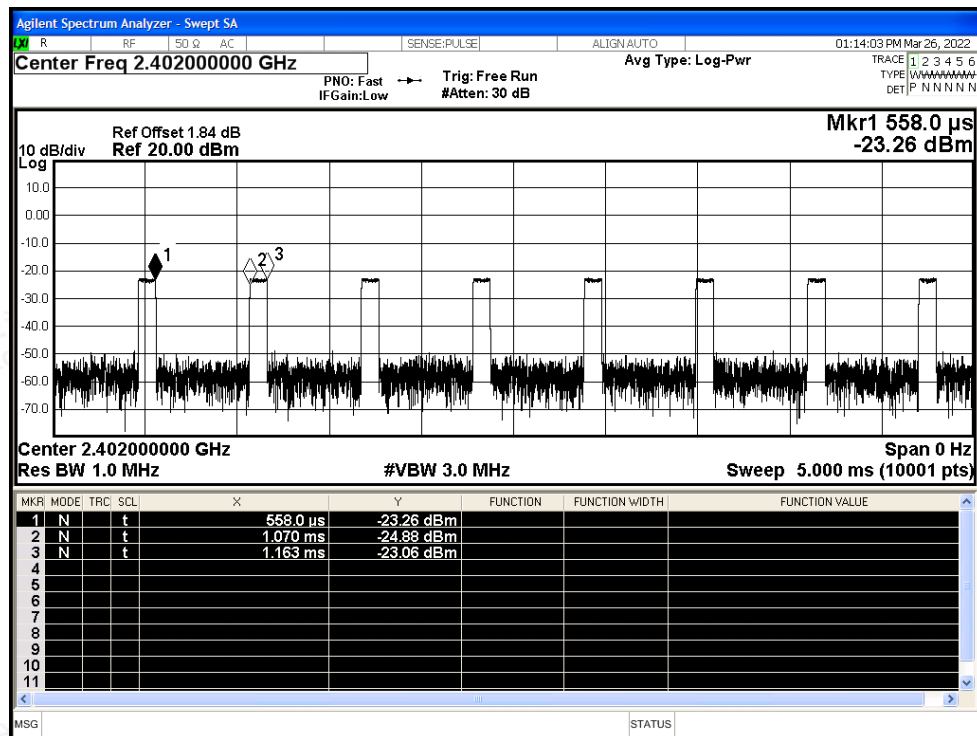
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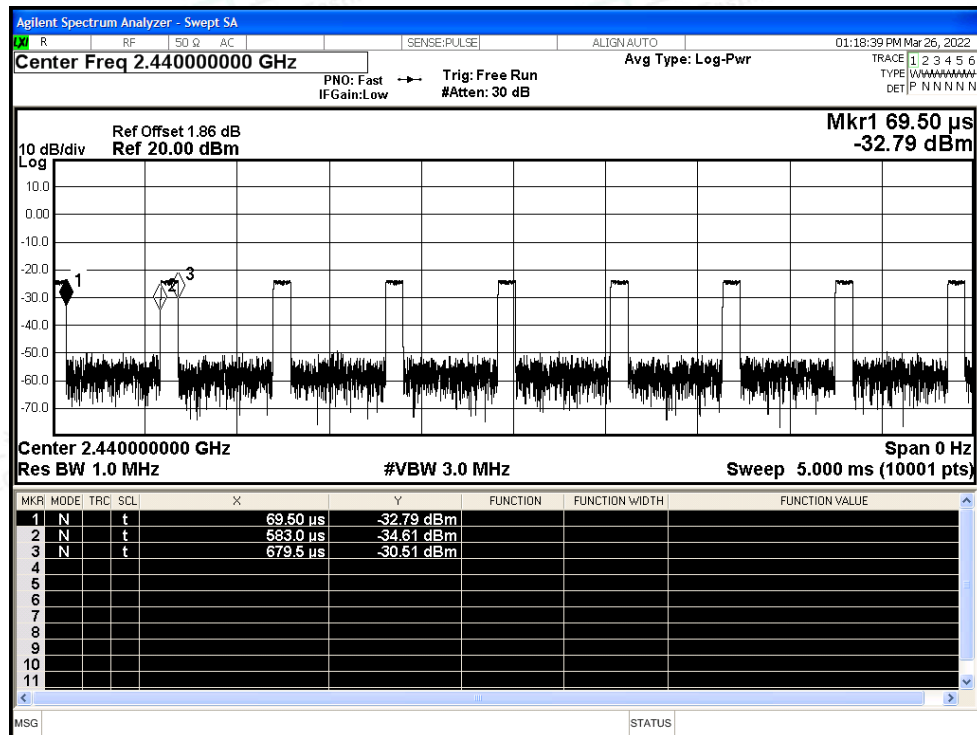


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

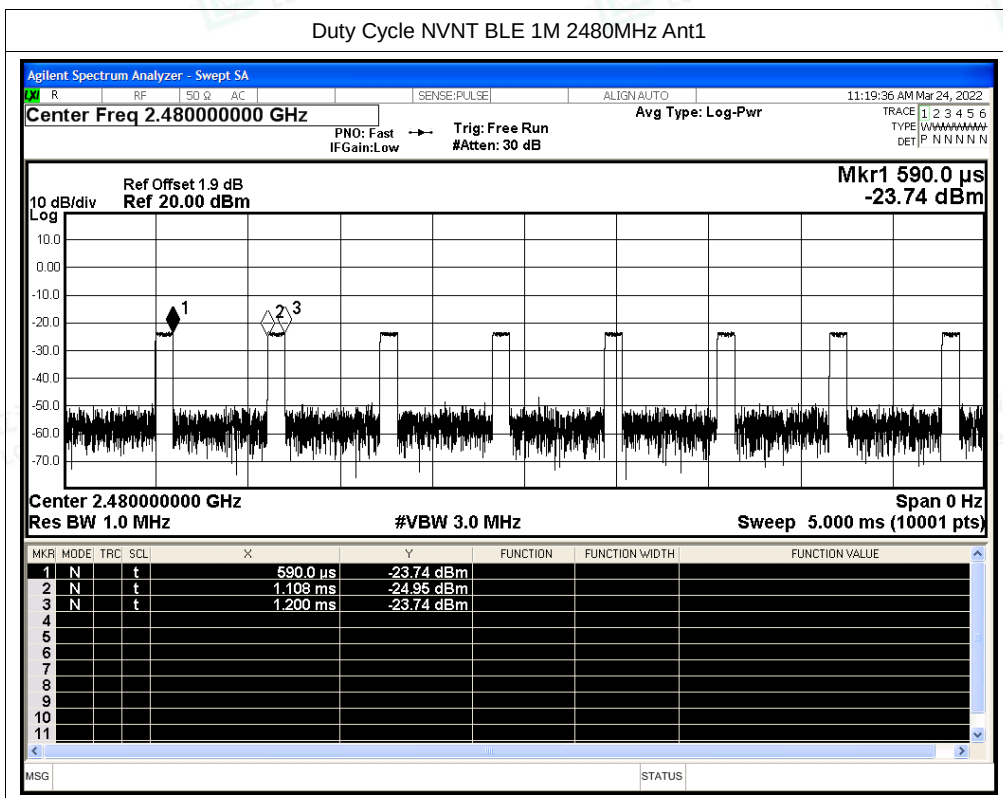


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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.42	2	45.84	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-59.07	2	38.19	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2334.132	-48.37	2	48.89	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2364.024	-57.51	2	39.75	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-51.16	2	46.1	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-57.8	2	39.46	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-51.19	2	46.07	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-58.65	2	38.61	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2489.392	-47.28	2	49.98	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2492.92	-57.43	2	39.83	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-48.79	2	48.47	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.7	2	38.56	Average	54	Pass



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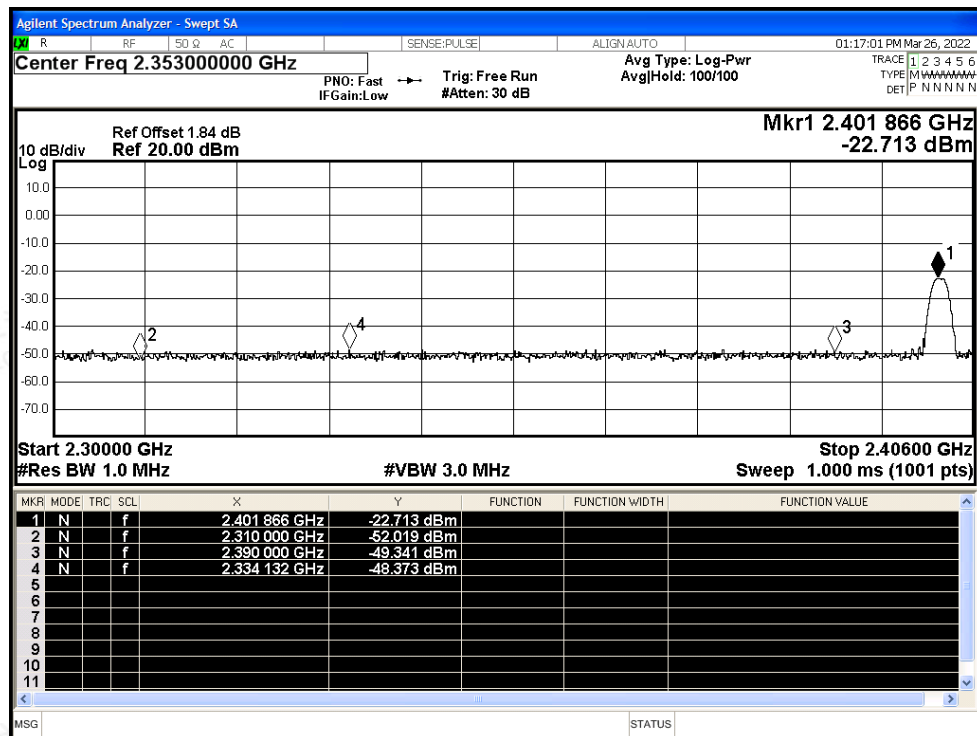
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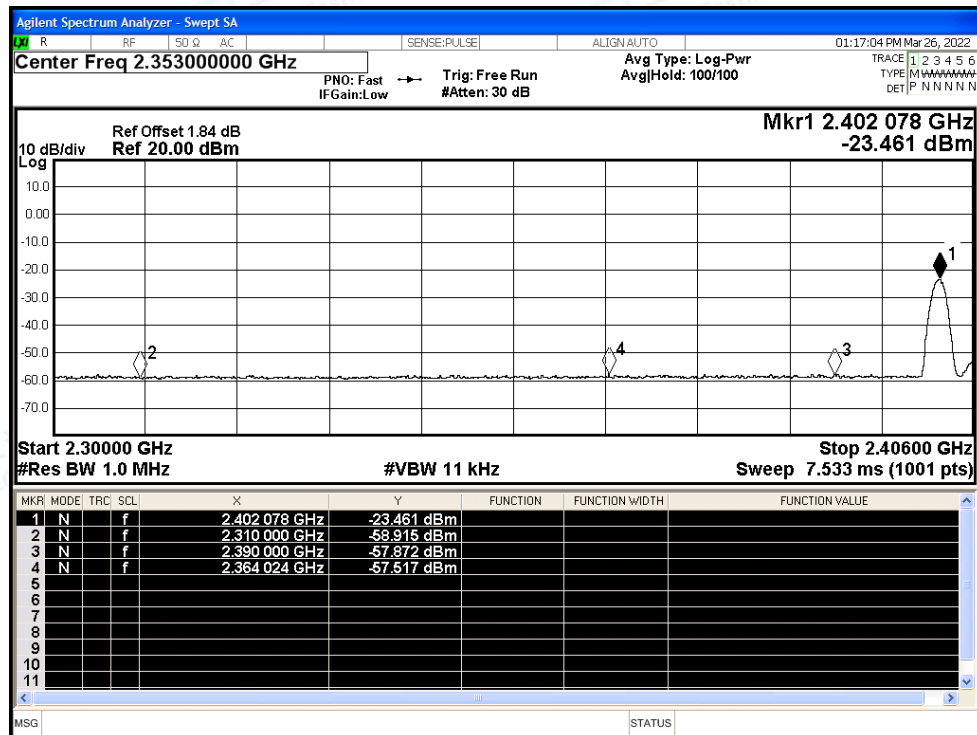


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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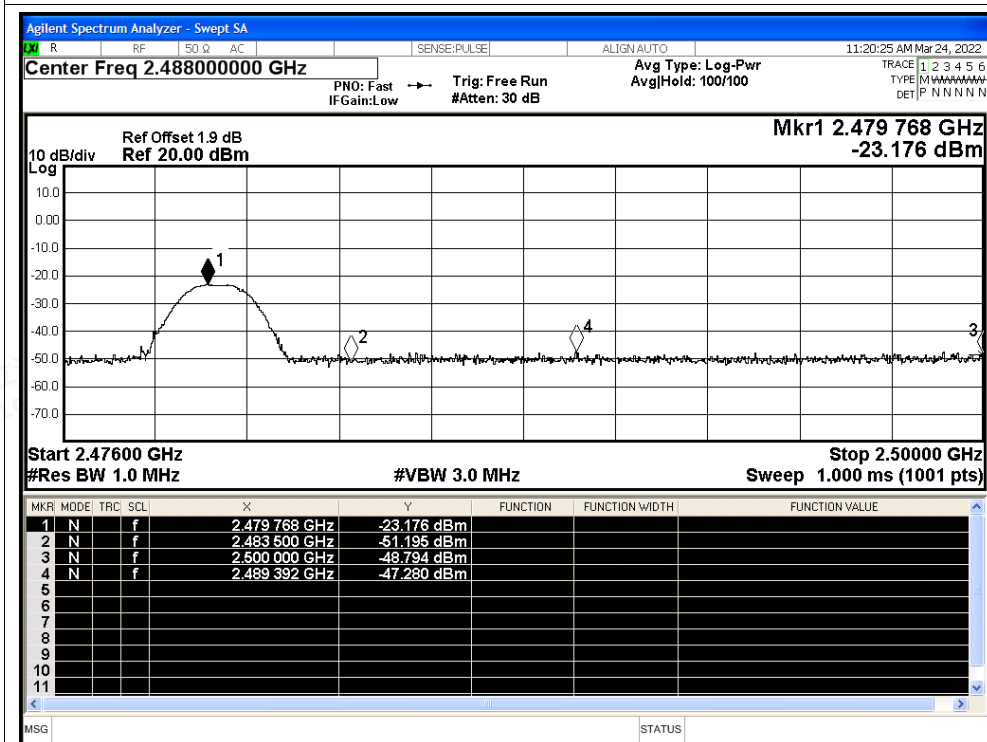
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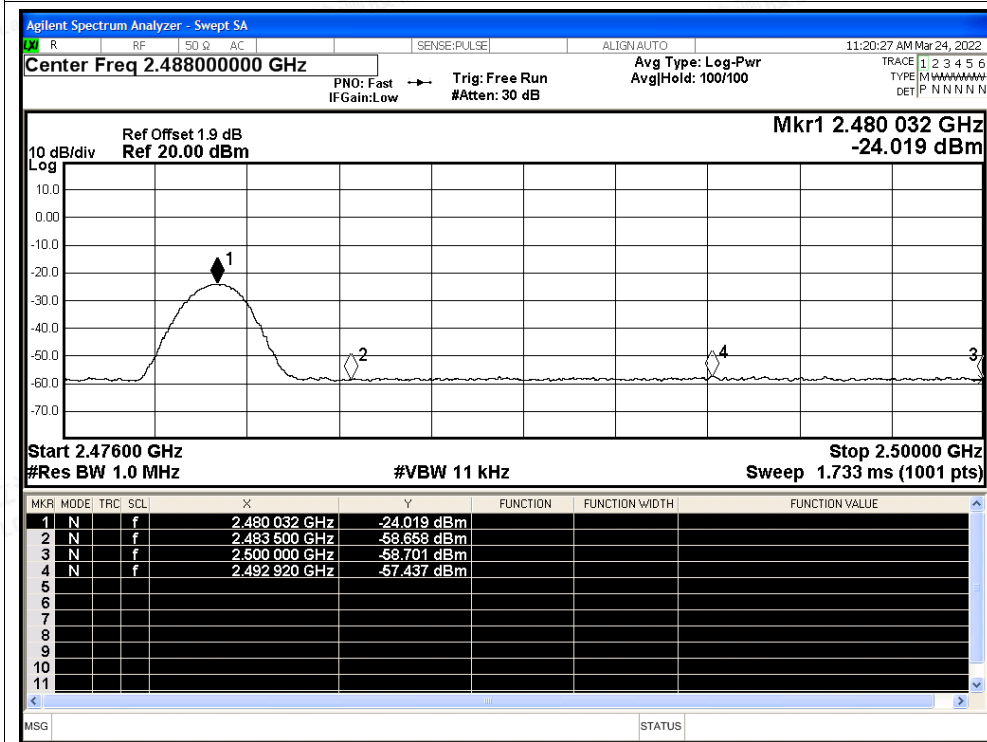
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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