



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: IP Phone

Test Model: UCV20

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu Ling Zhu
Supervised by:	Li Huan Li Huan





B.1 -6dB Bandwidth

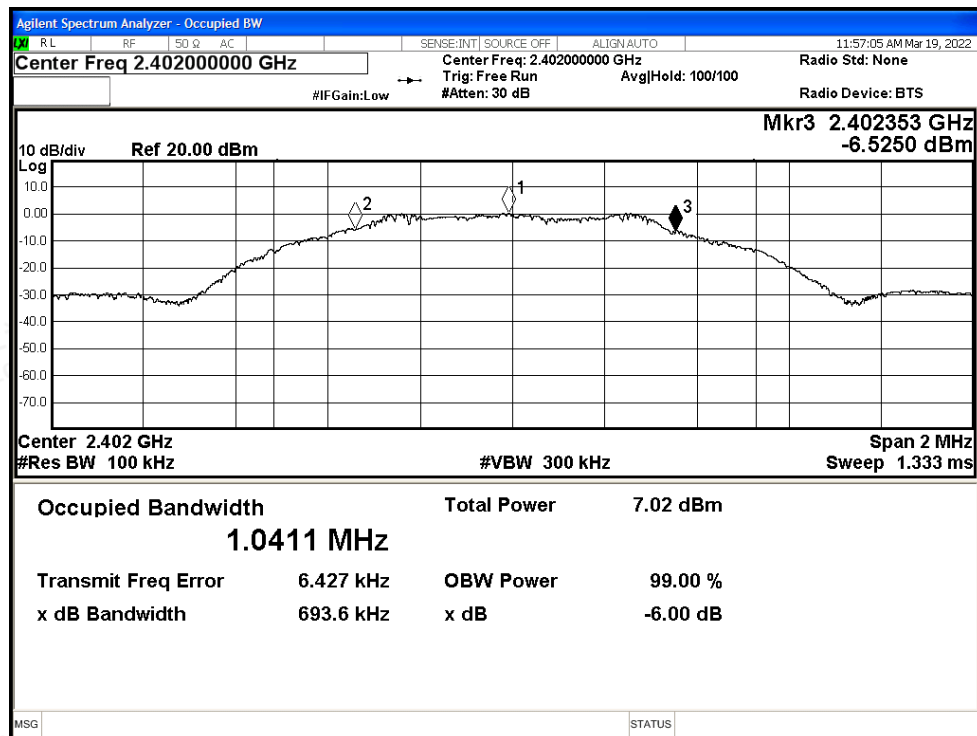
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.694	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.68	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.697	0.5	Pass



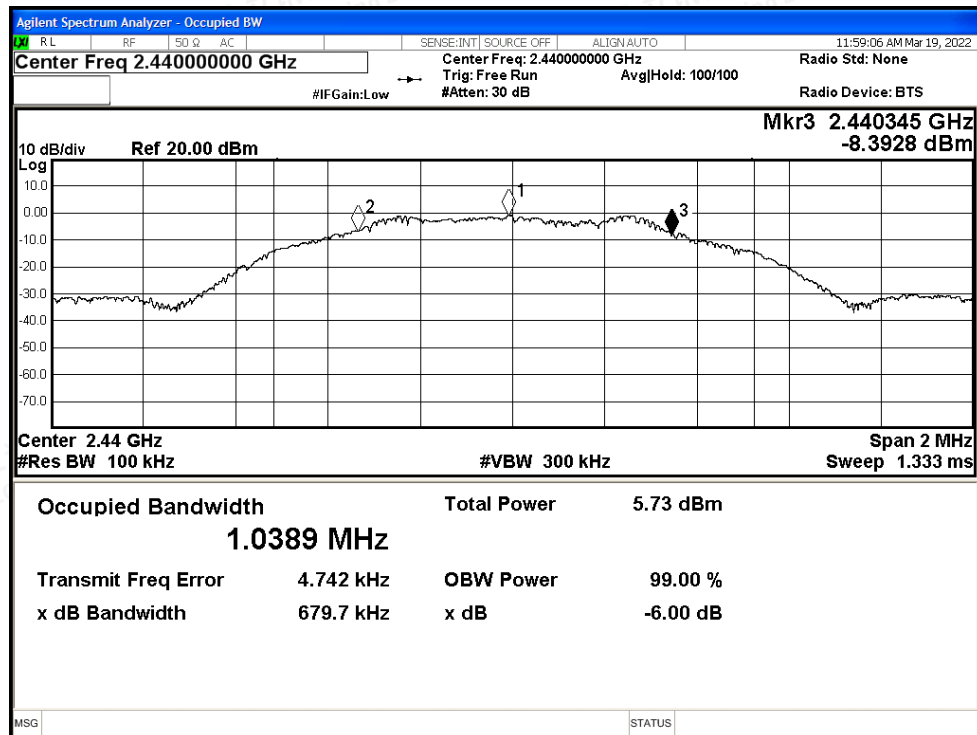


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

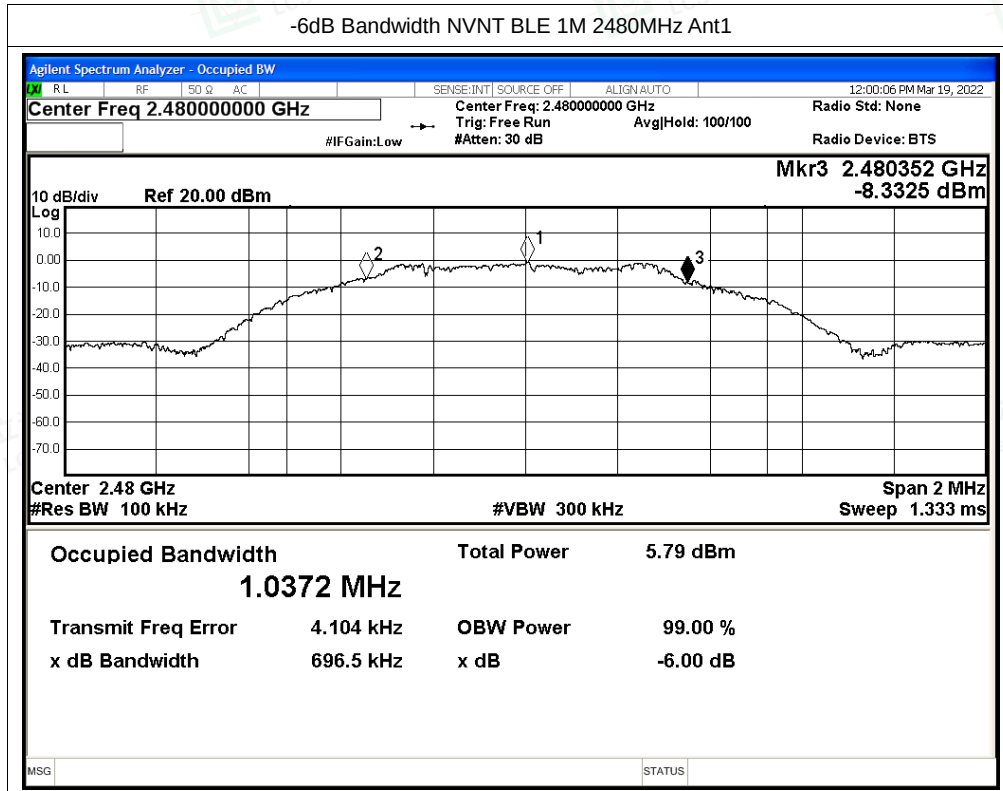


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B.2 Maximum Peak Conducted Output Power

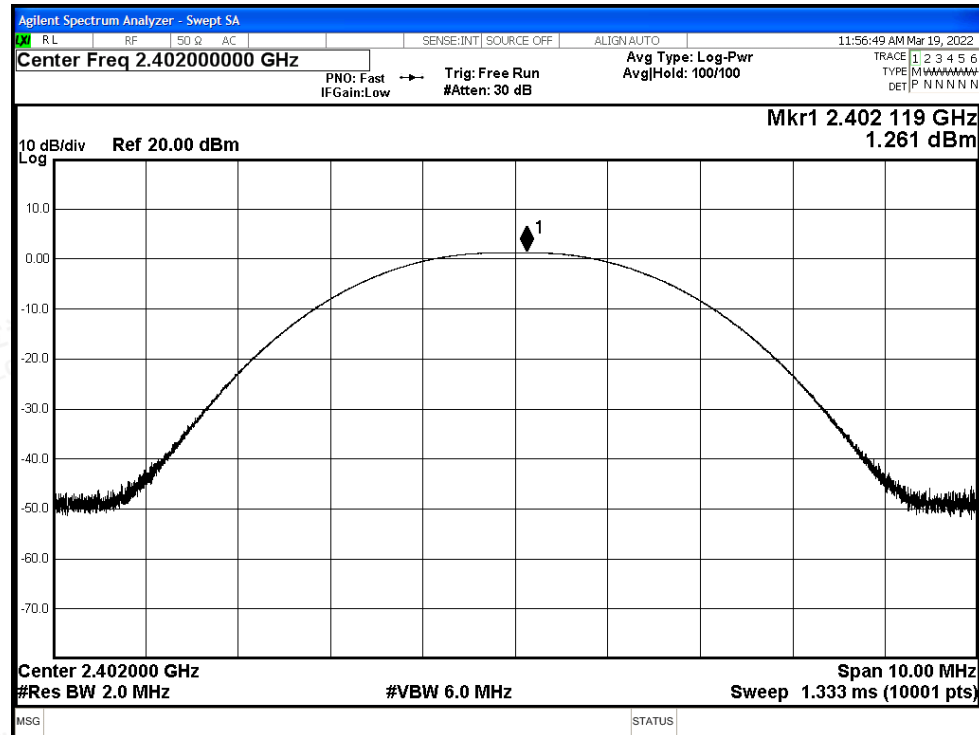
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	1.26	0	1.26	30	Pass
NVNT	BLE 1M	2440	Ant1	0.12	0	0.12	30	Pass
NVNT	BLE 1M	2480	Ant1	0.09	0	0.09	30	Pass



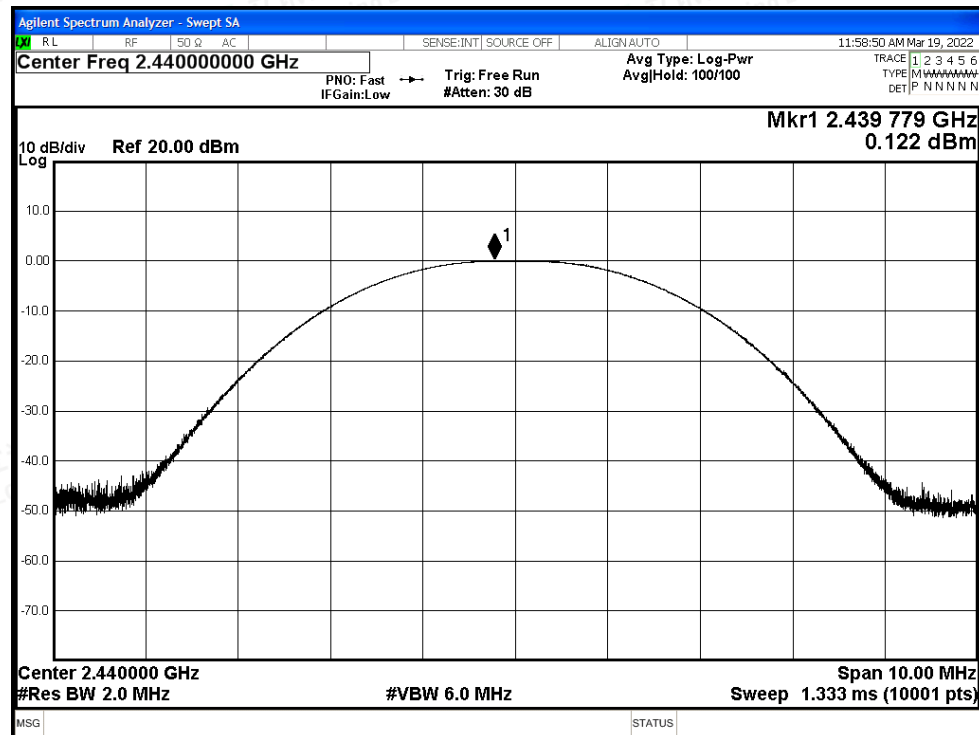


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

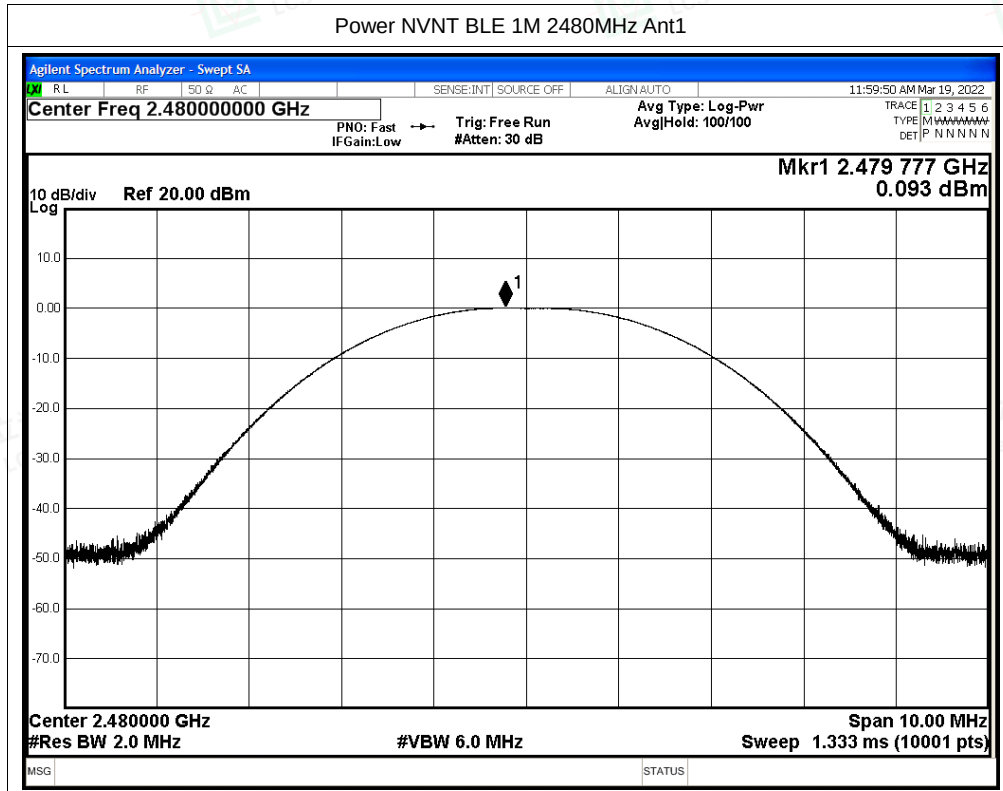


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B.3 Maximum Power Spectral Density Level

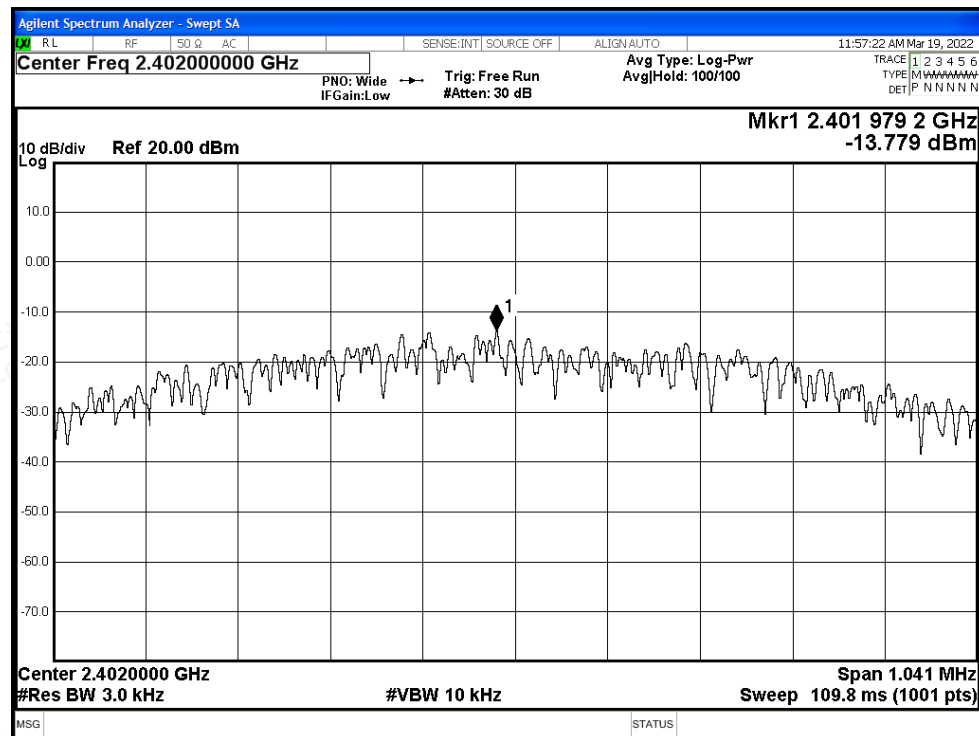
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-13.78	0	-13.78	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.05	0	-15.05	8	Pass
NVNT	BLE 1M	2480	Ant1	-14.7	0	-14.7	8	Pass



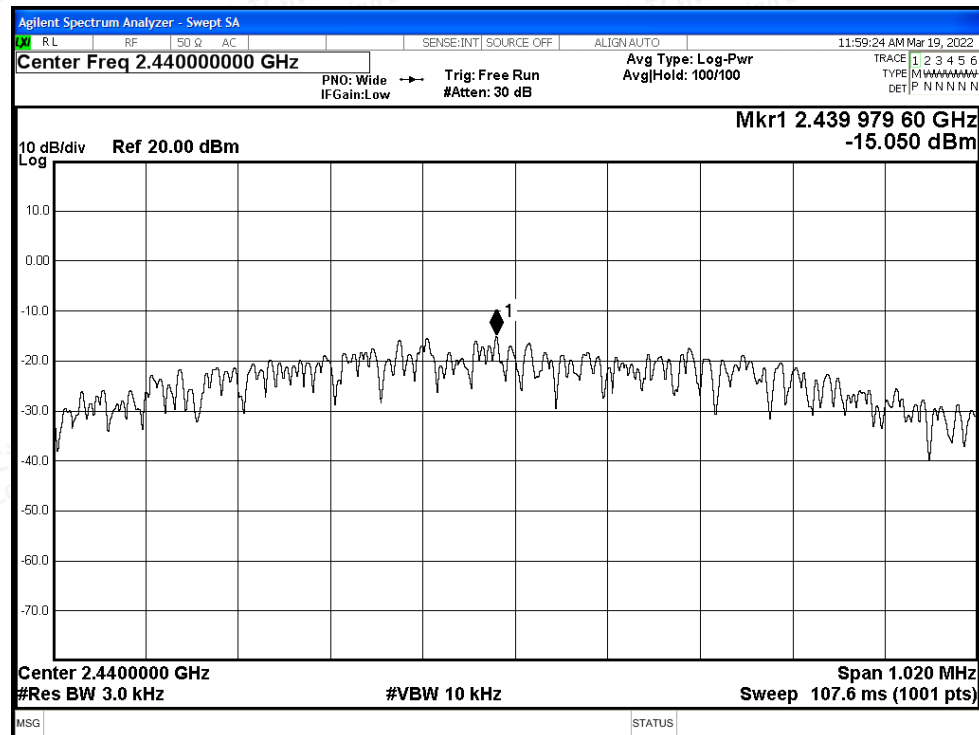


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

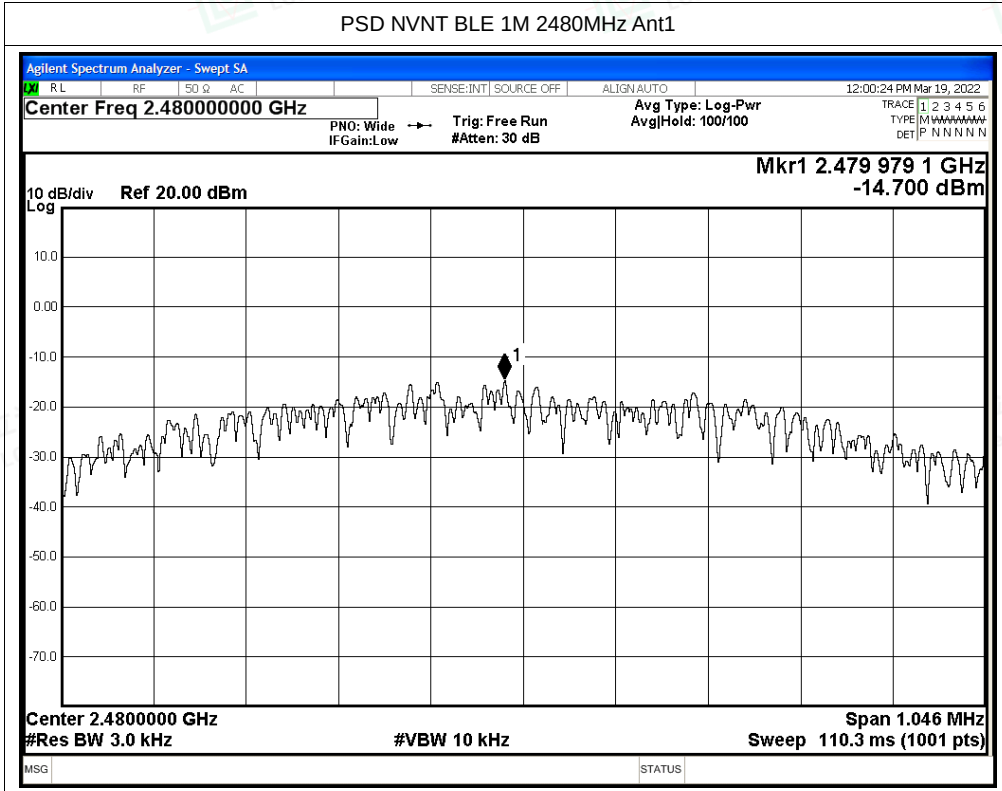


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-57.83	-20	Pass
NVNT	BLE 1M	2480	Ant1	-58.8	-20	Pass

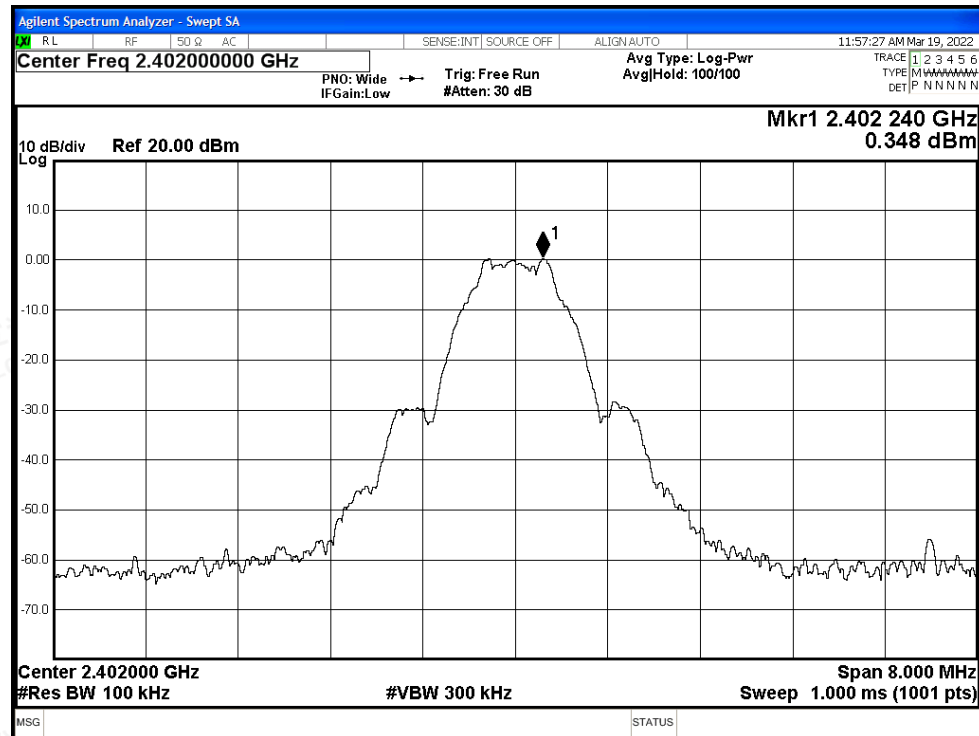




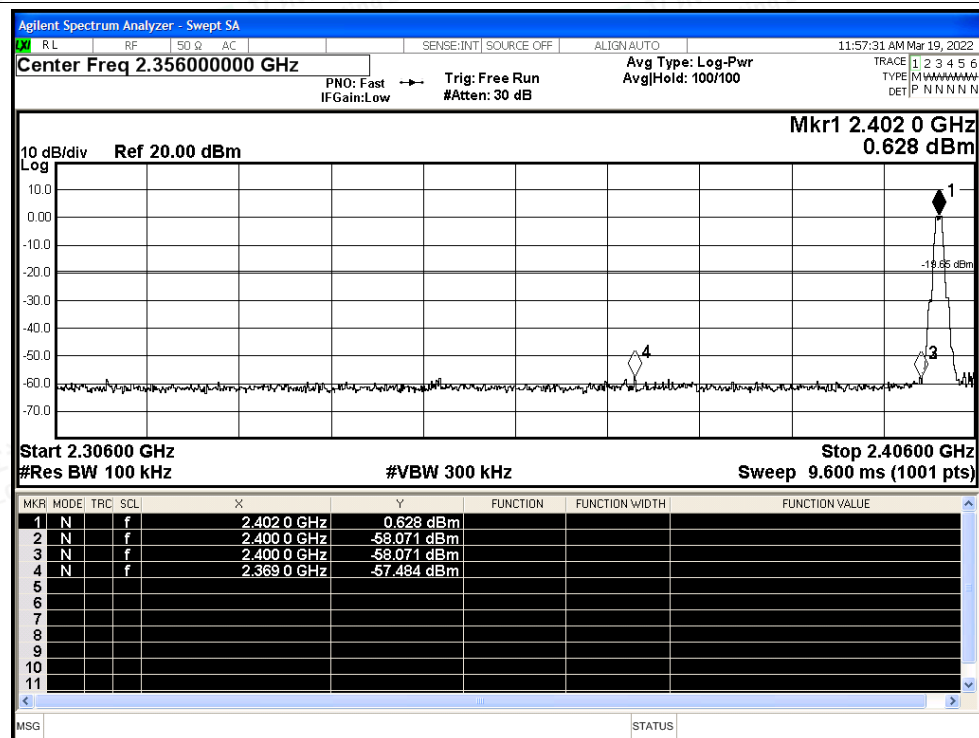
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Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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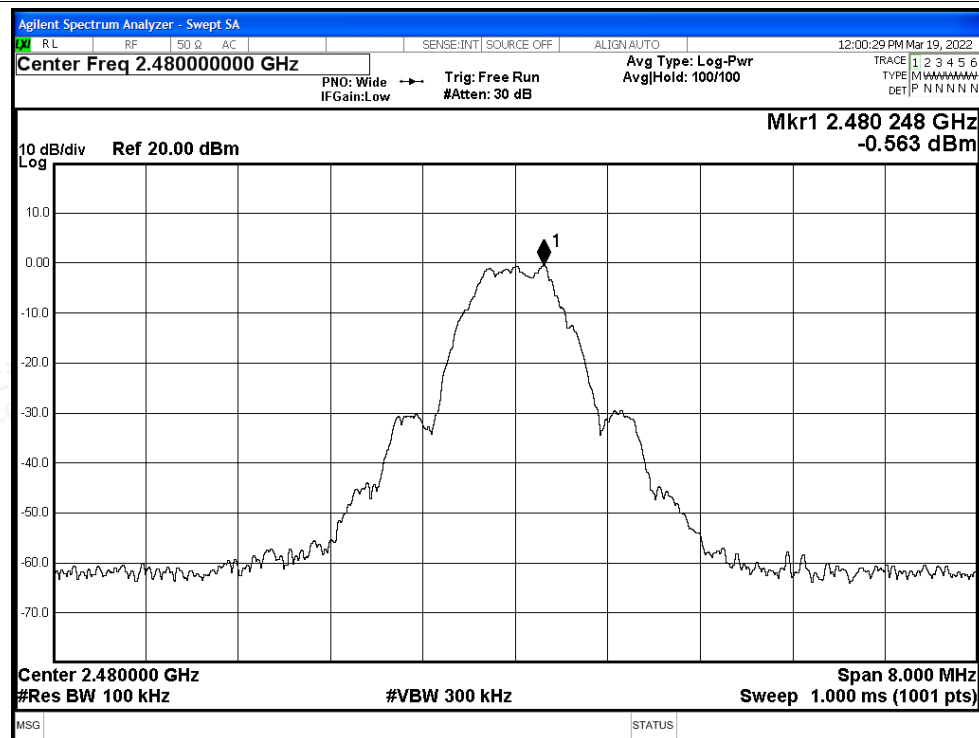
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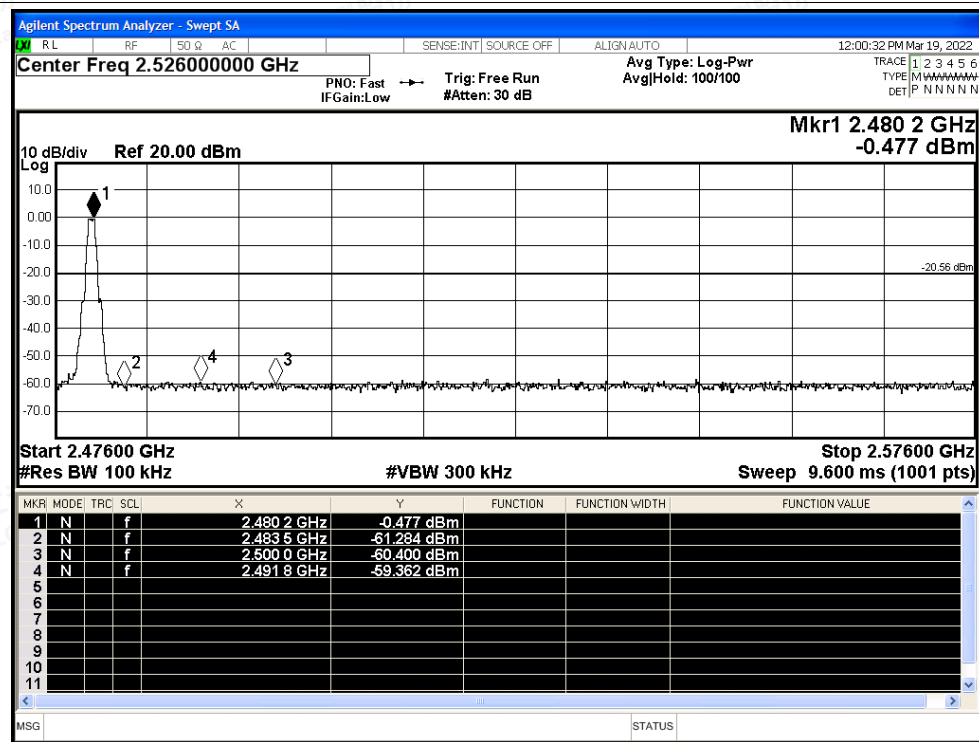


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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



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	-54.55	-20	Pass
NVNT	BLE 1M	2480	Ant1	-50.15	-20	Pass

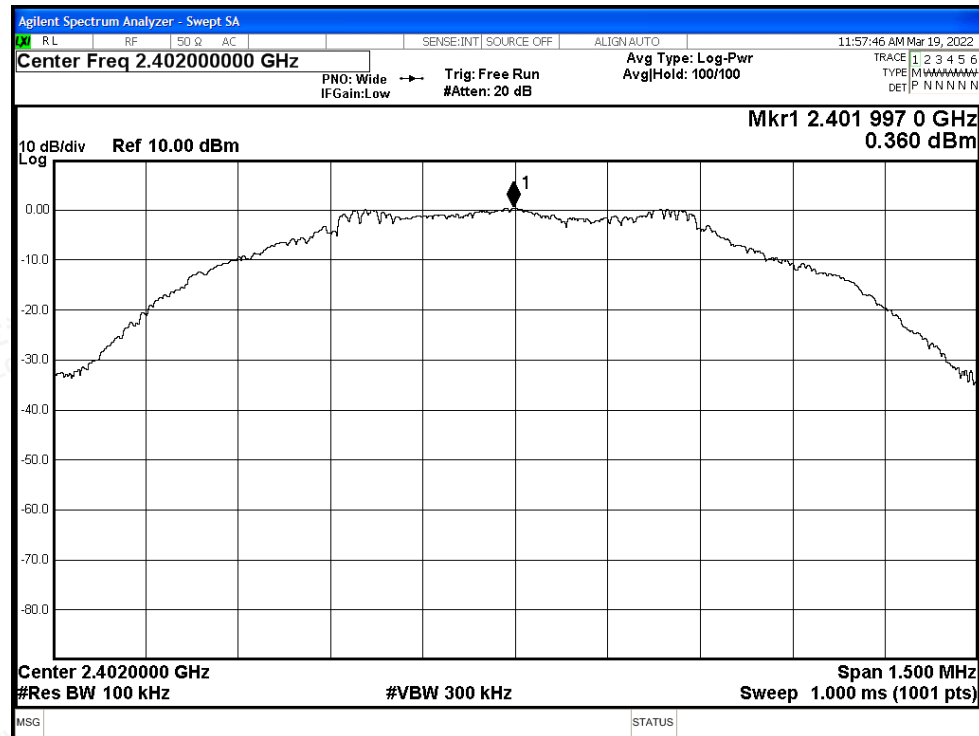




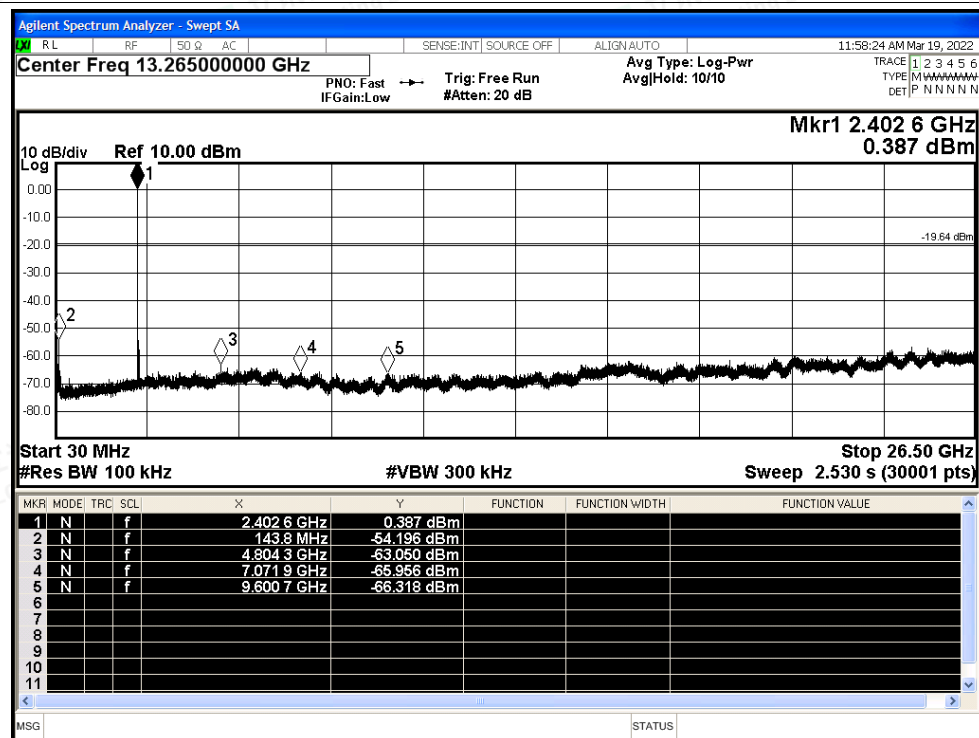
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Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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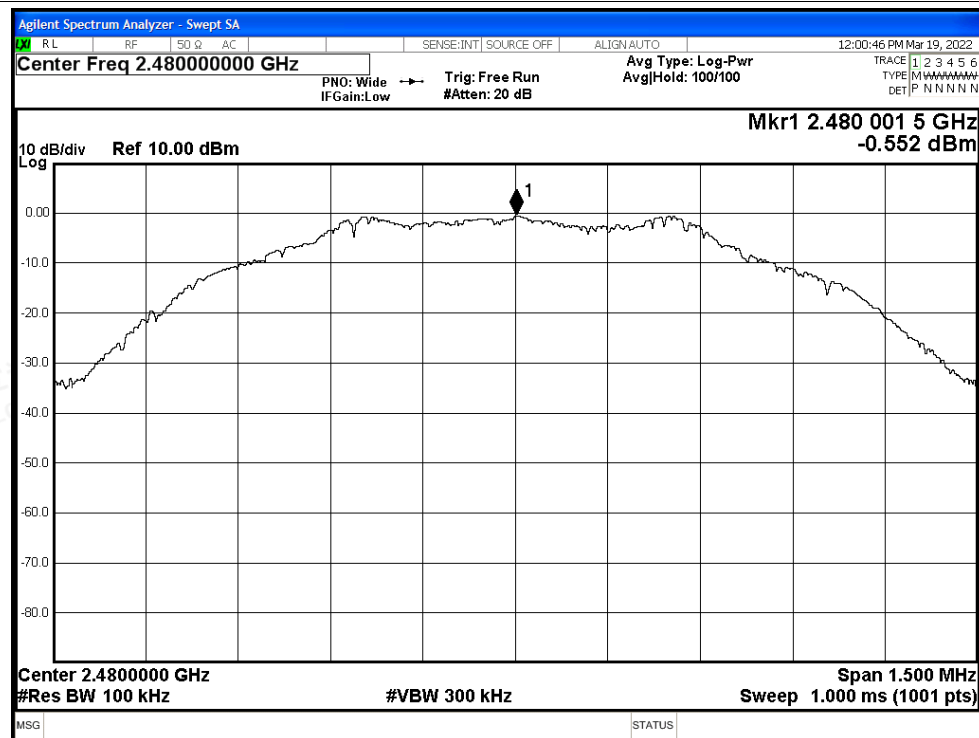
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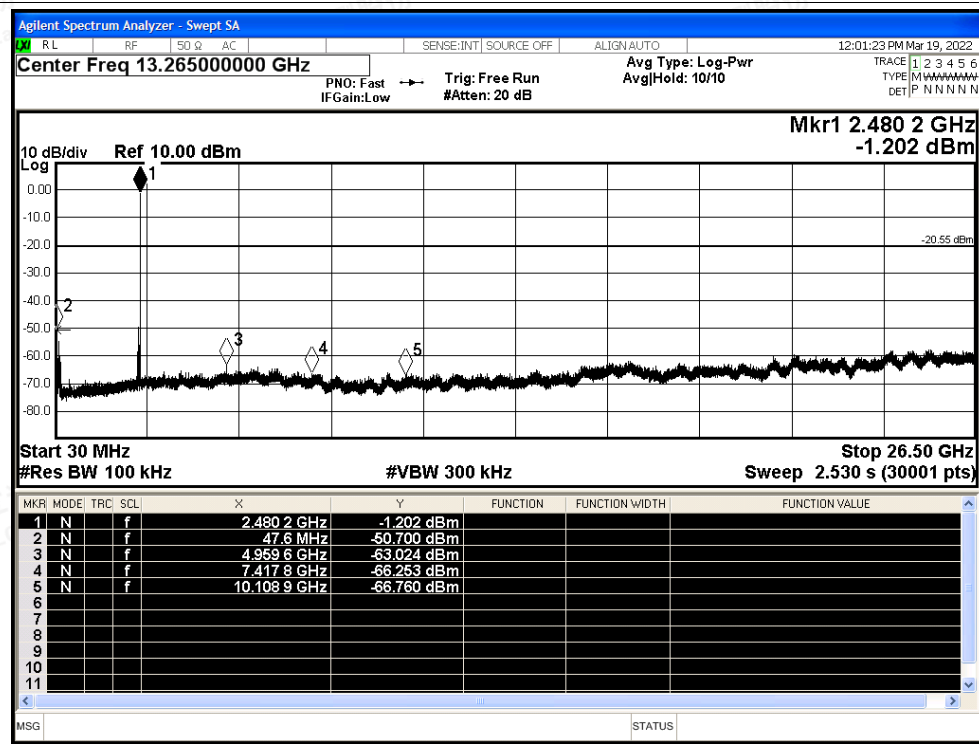


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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



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	61.44	2.12	2.6
NVNT	BLE 1M	2440	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2480	Ant1	61.44	2.12	2.6

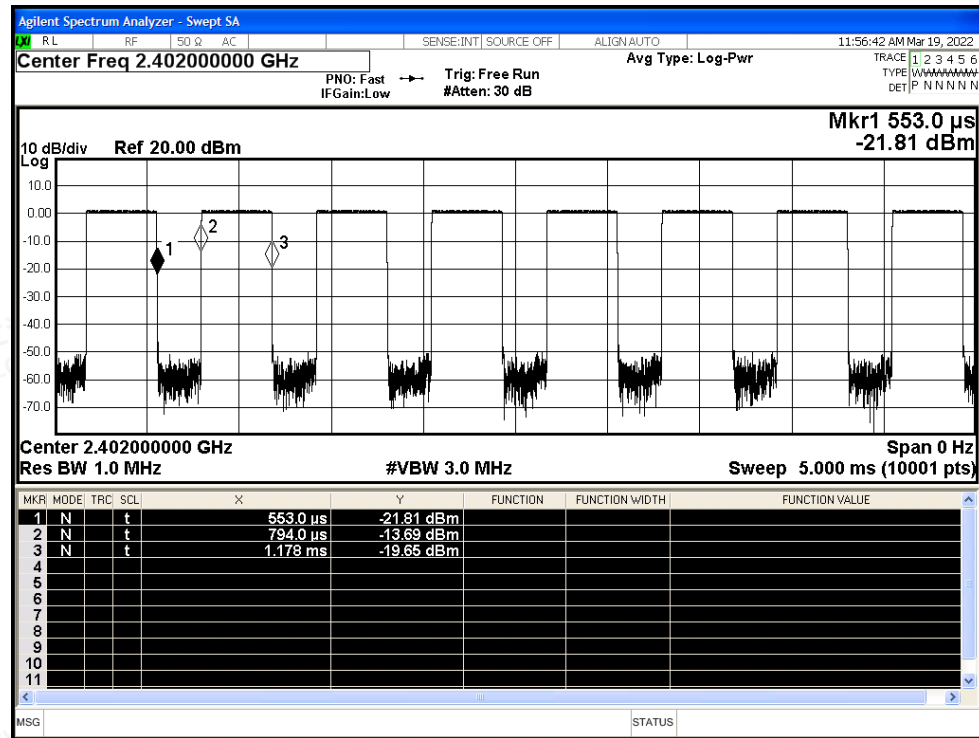




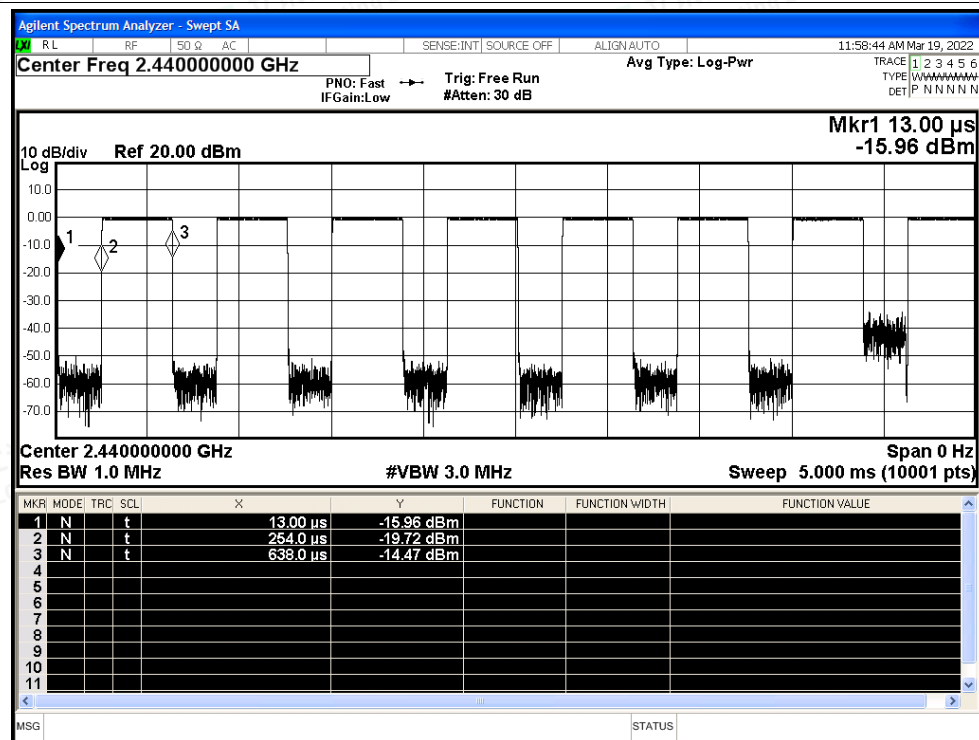
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Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1



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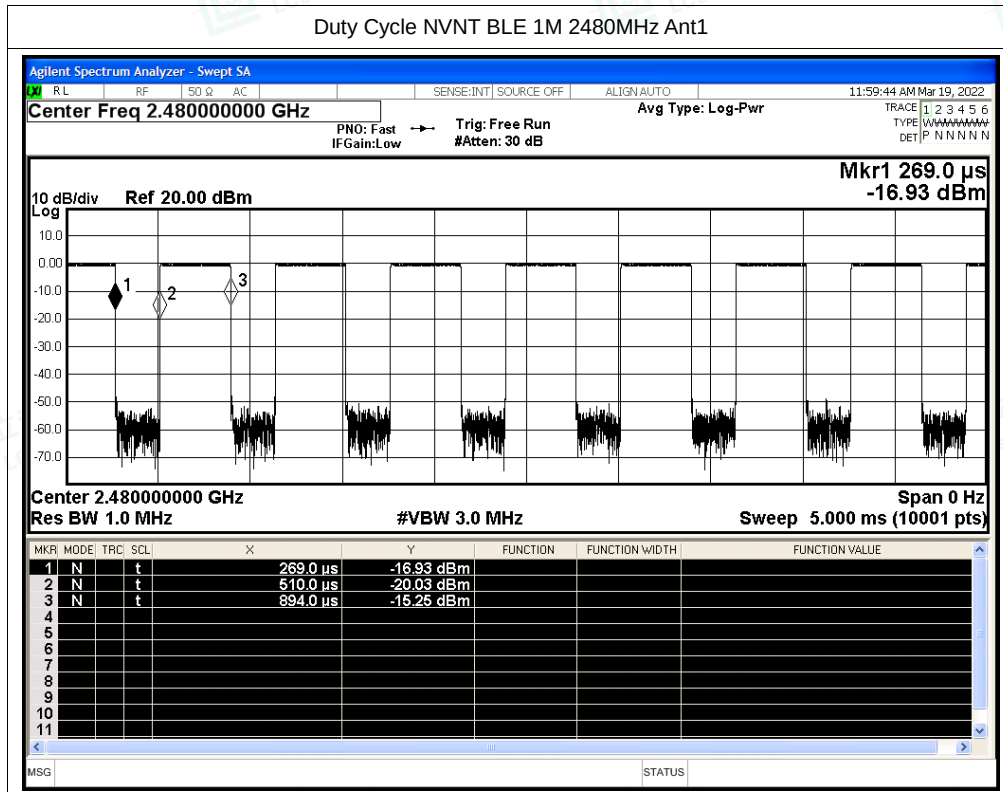
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B.7 Restrict Band

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	-52.23	2	45.03	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-61.26	2	36	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2342.64	-49.14	2	48.12	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2376.72	-60.16	2	37.1	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.53	2	46.73	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-60.69	2	36.57	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-52.57	2	44.69	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-60.47	2	36.79	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2490.136	-47.96	2	49.3	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2498.8	-60.14	2	37.12	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-51.76	2	45.5	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-60.69	2	36.57	Average	54	Pass



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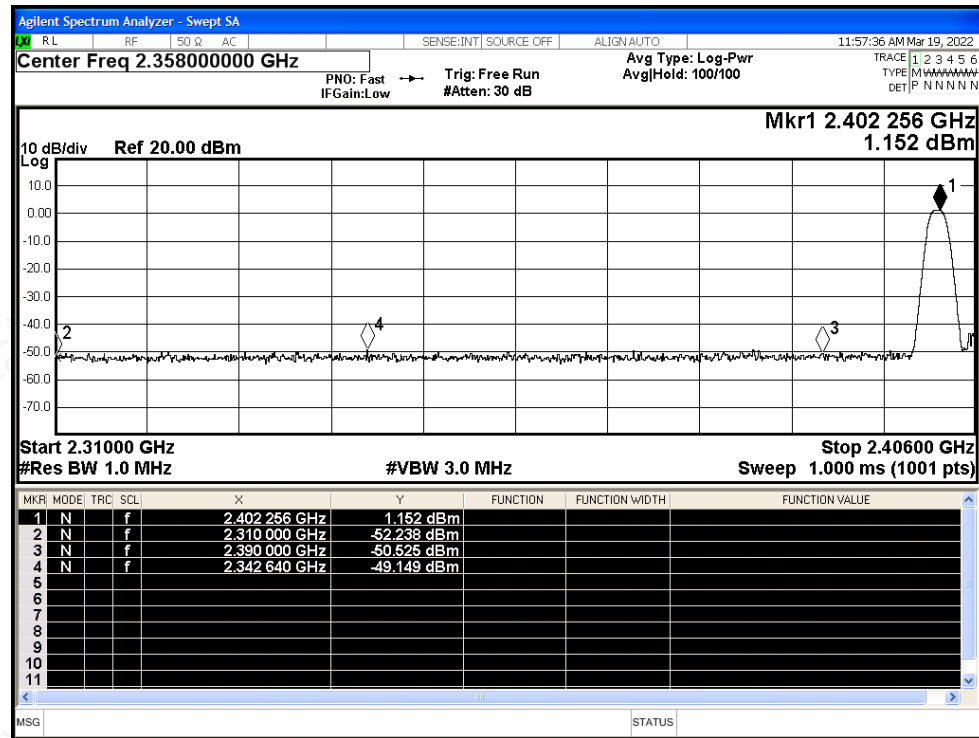
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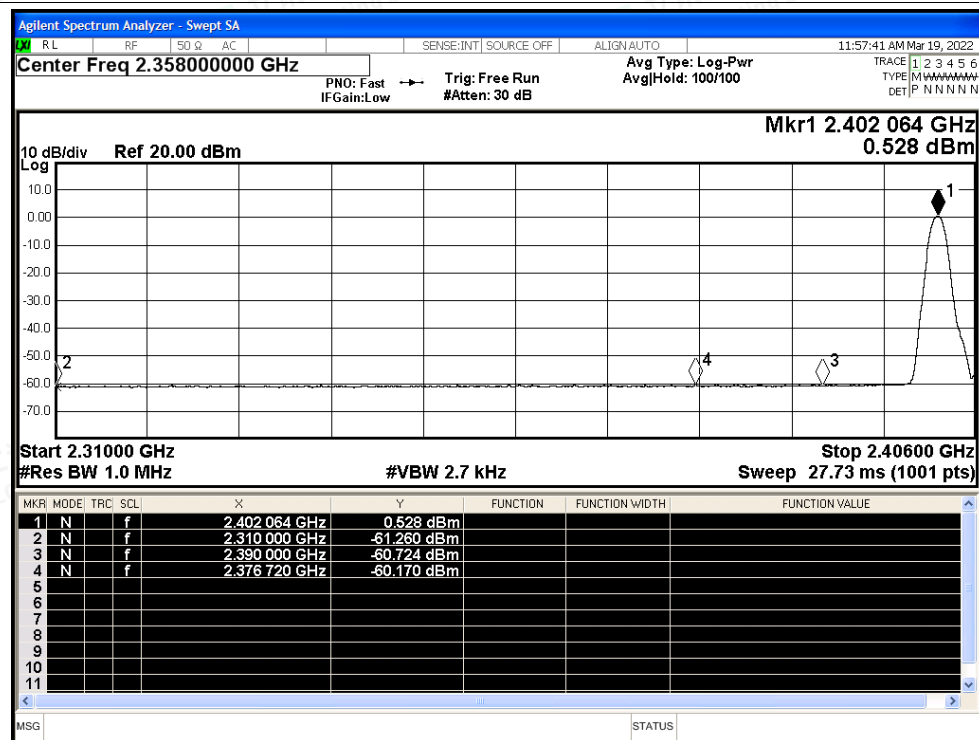
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Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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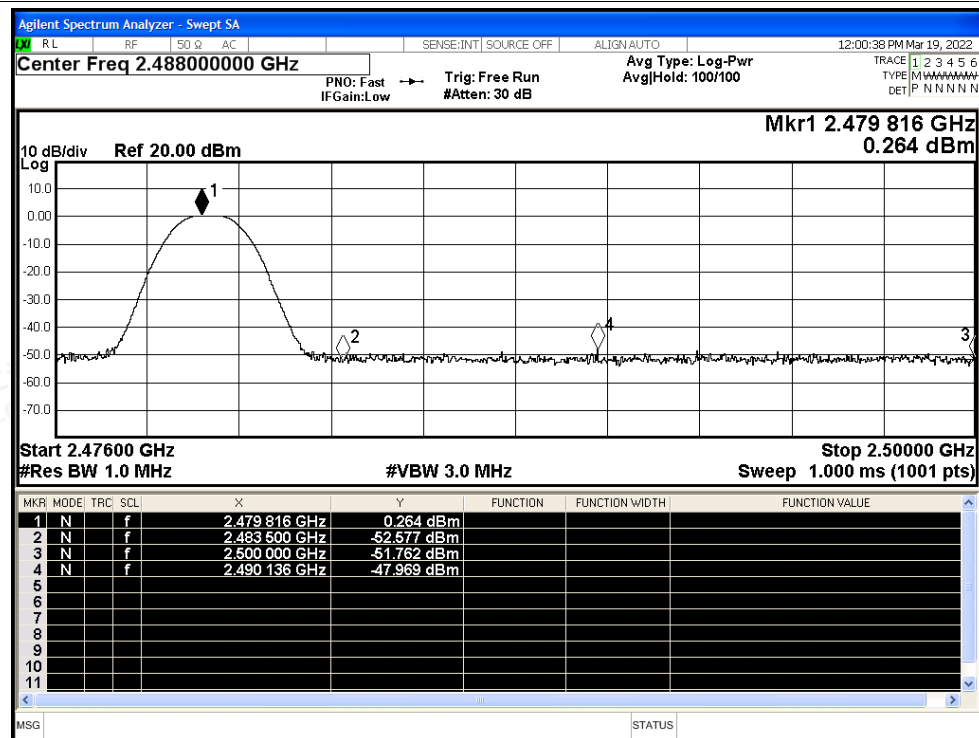
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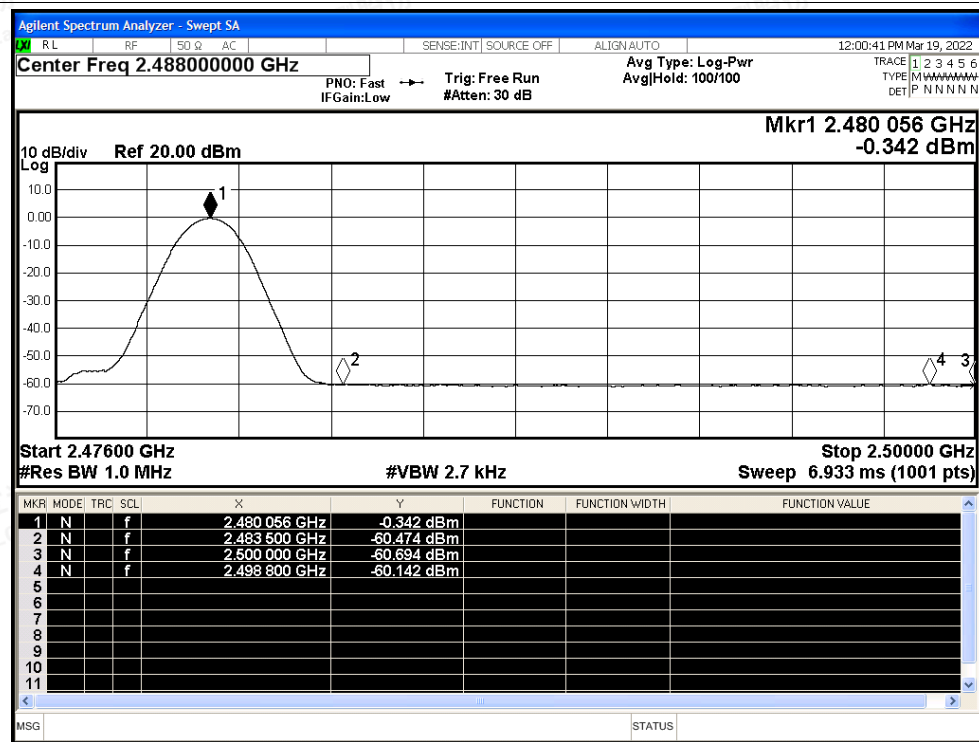


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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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