

Appendix: Bluetooth LE

Contents

Contents 2

Duty Cycle 3

Maximum Peak Conducted Output Power 7

-6dB Bandwidth 11

Occupied Channel Bandwidth 15

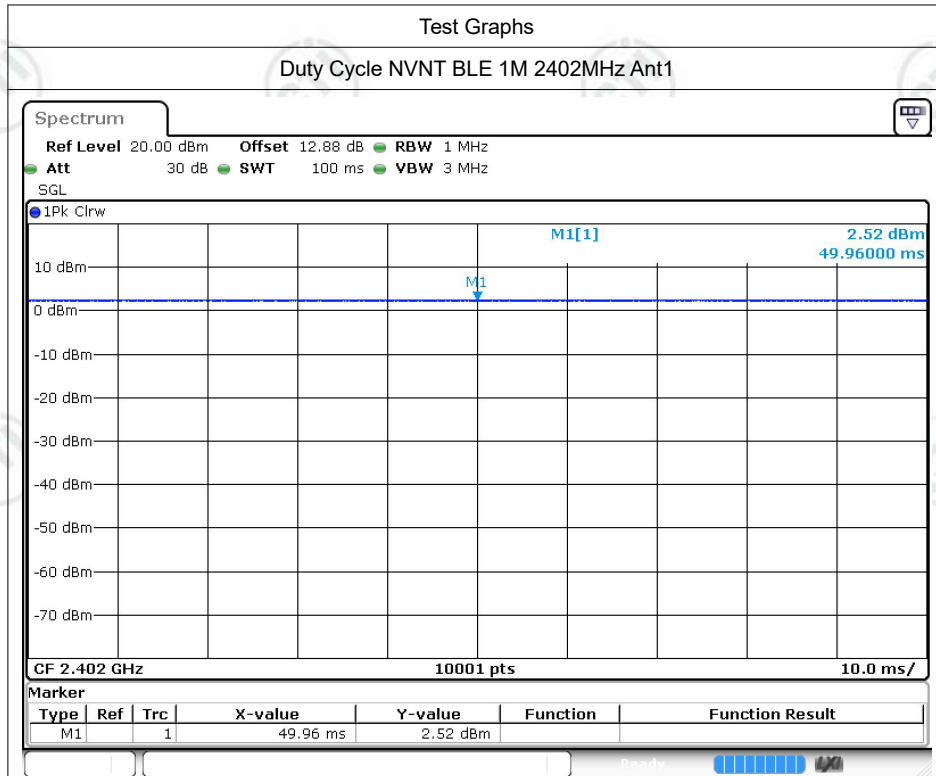
Maximum Power Spectral Density Level 19

Band Edge 23

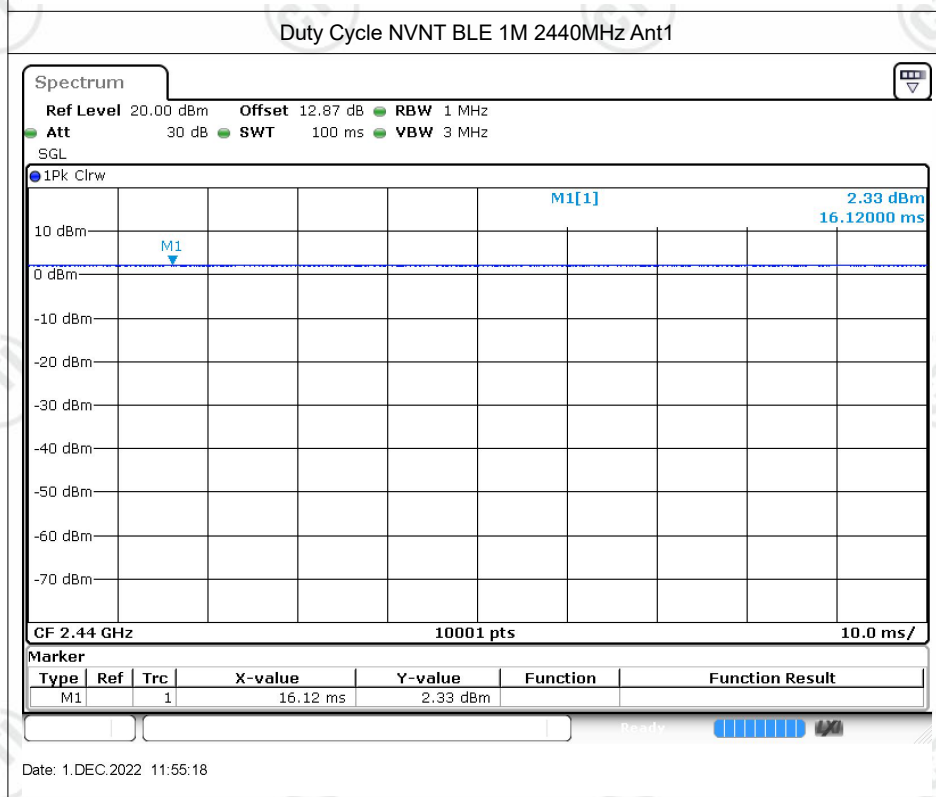
Conducted RF Spurious Emission 28

Duty Cycle

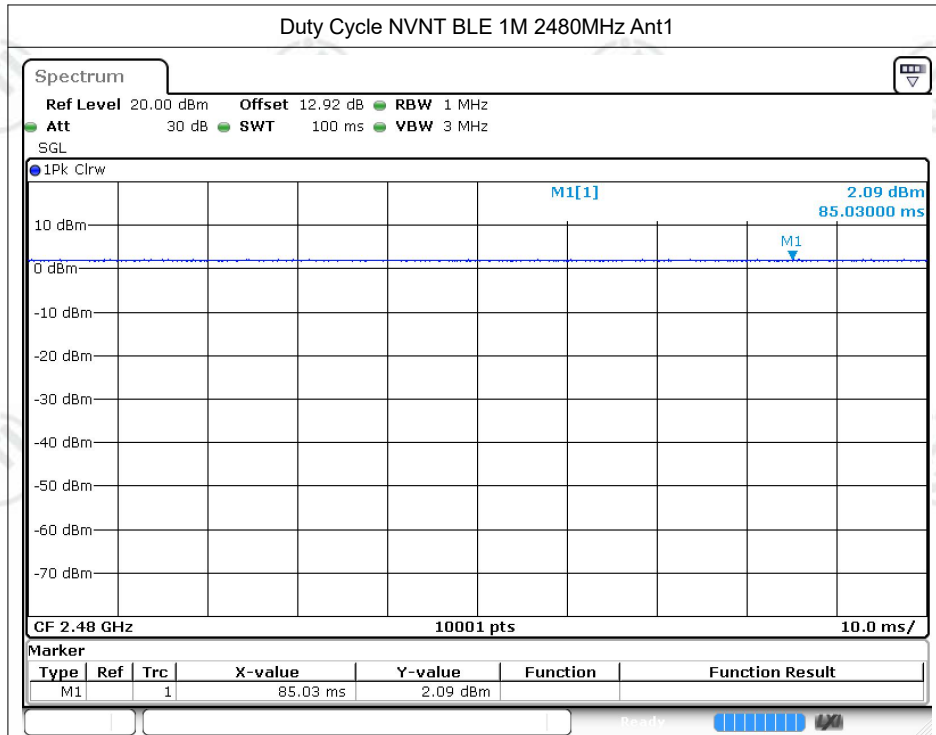
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	100	0	0
NVNT	BLE 1M	2440	Ant1	100	0	0
NVNT	BLE 1M	2480	Ant1	100	0	0
NVNT	BLE 2M	2402	Ant1	100	0	0
NVNT	BLE 2M	2440	Ant1	100	0	0
NVNT	BLE 2M	2480	Ant1	100	0	0



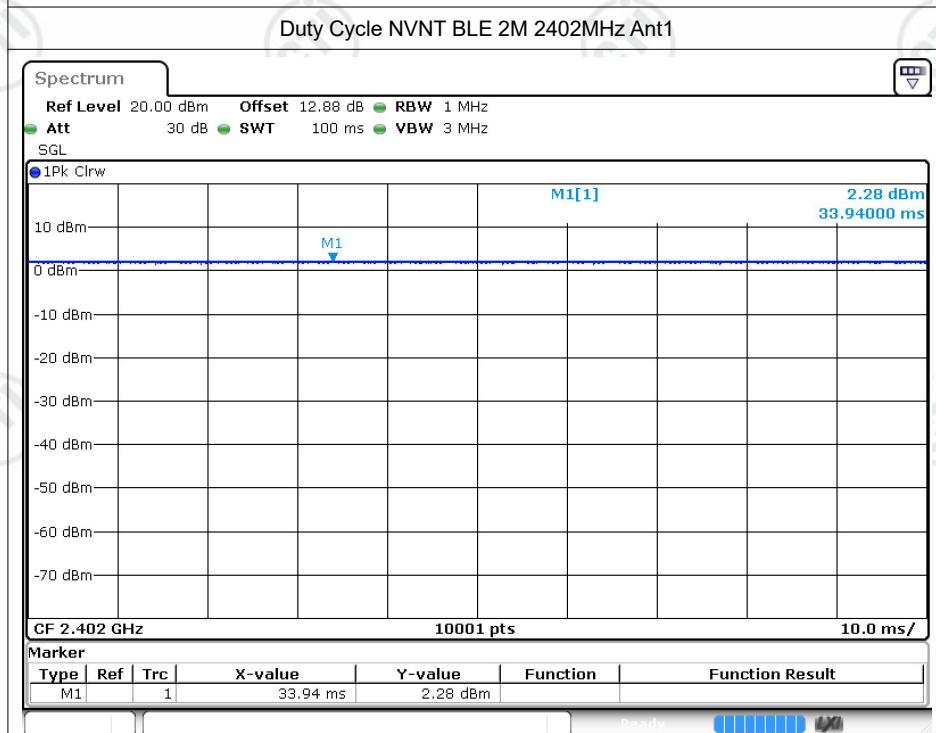
Date: 1.DEC.2022 11:53:39



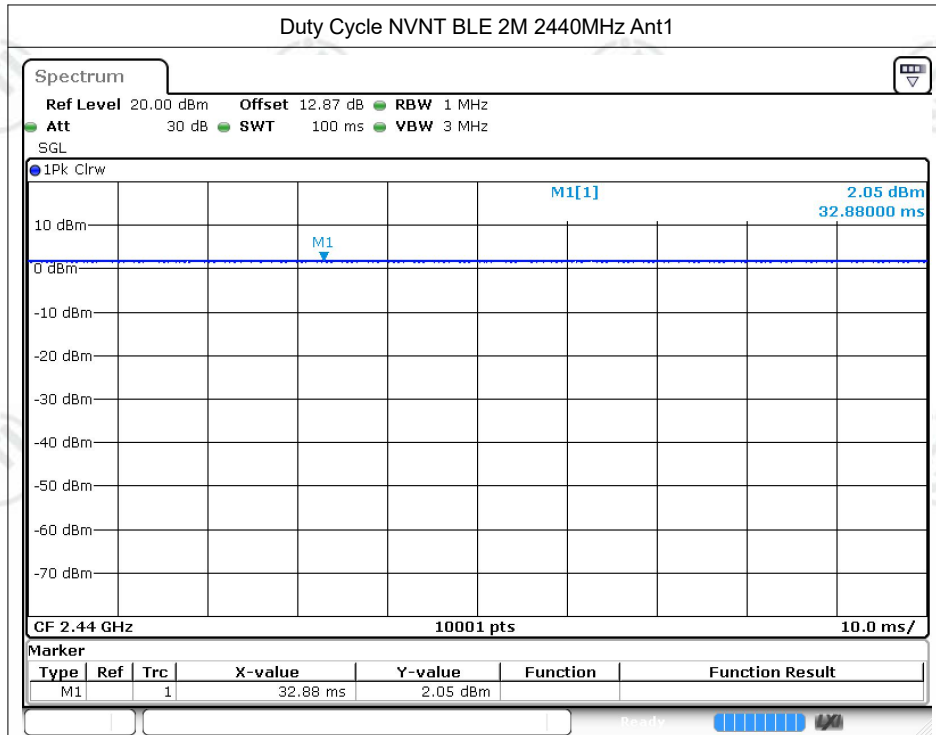
Date: 1.DEC.2022 11:55:18



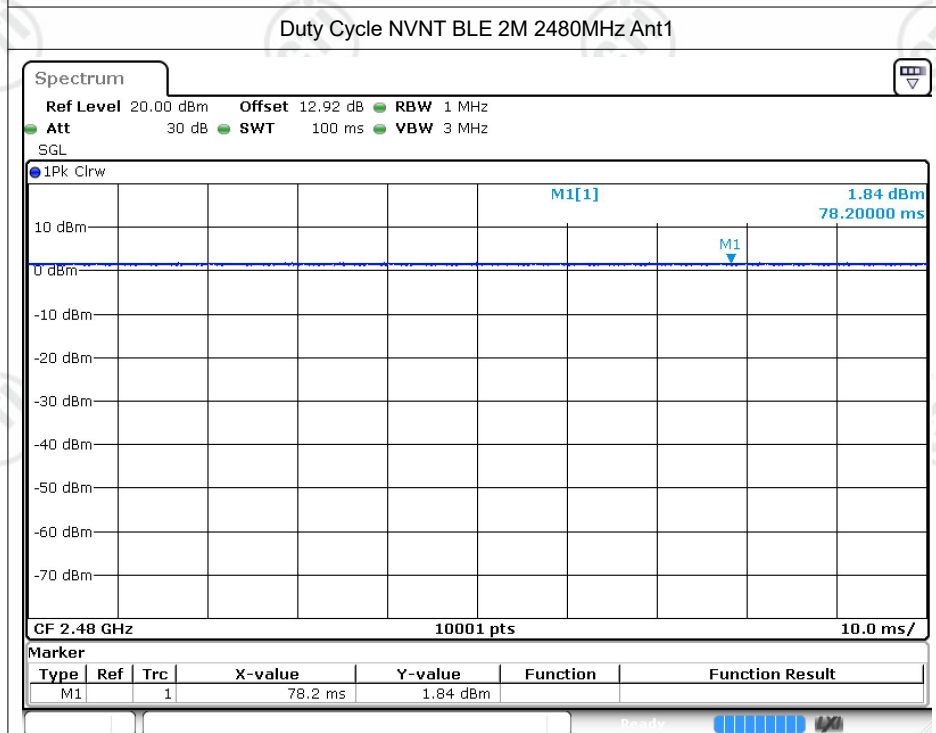
Date: 1.DEC.2022 11:56:47



Date: 1.DEC.2022 11:58:29



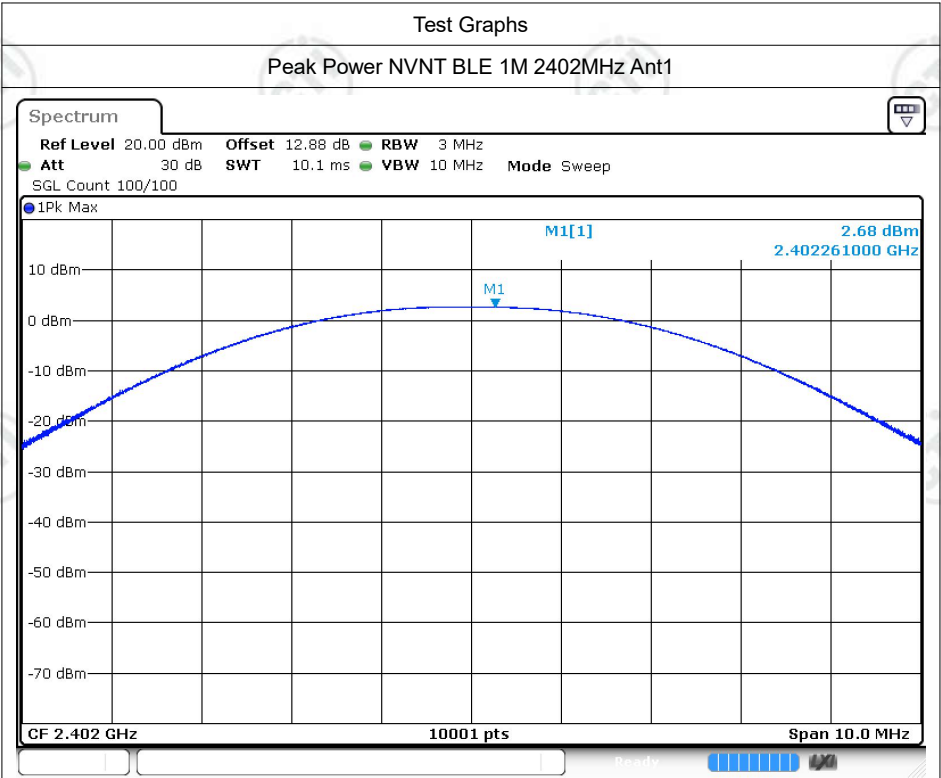
Date: 1.DEC.2022 12:00:33



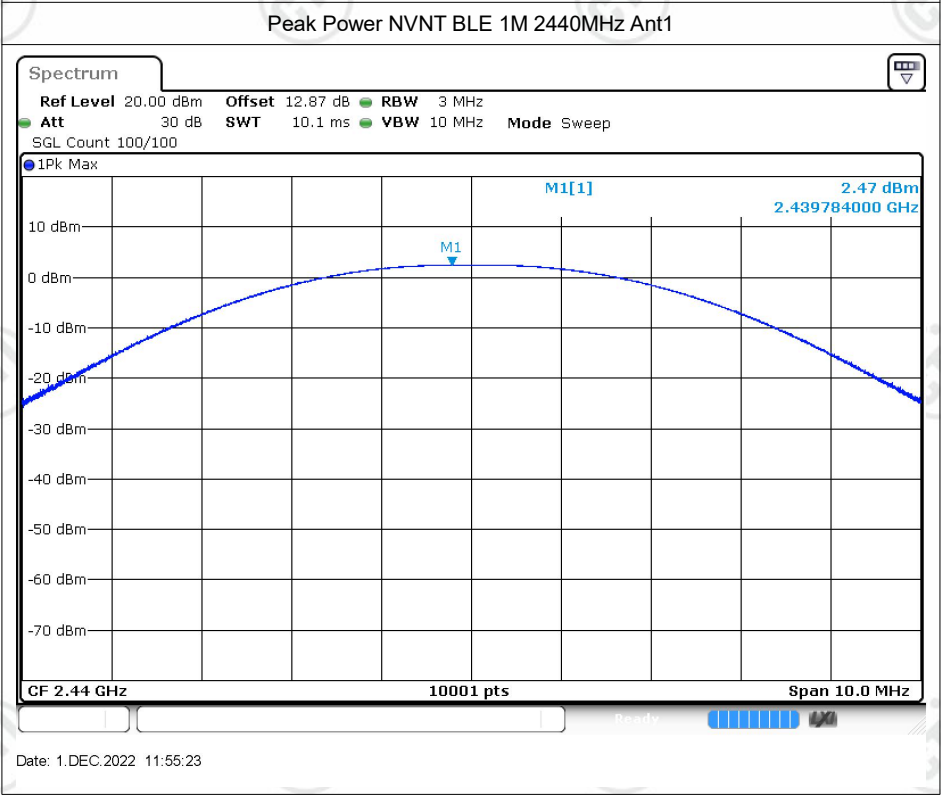
Date: 1.DEC.2022 12:08:02

Maximum Peak Conducted Output Power

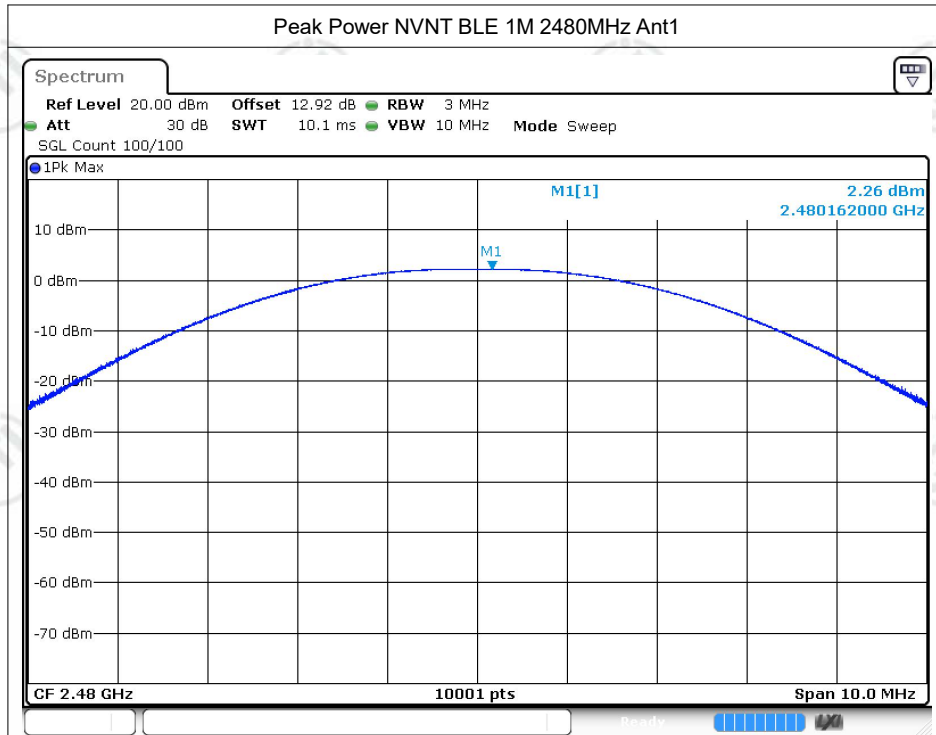
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	2.68	0	2.68	30	Pass
NVNT	BLE 1M	2440	Ant1	2.47	0	2.47	30	Pass
NVNT	BLE 1M	2480	Ant1	2.26	0	2.26	30	Pass
NVNT	BLE 2M	2402	Ant1	2.69	0	2.69	30	Pass
NVNT	BLE 2M	2440	Ant1	2.46	0	2.46	30	Pass
NVNT	BLE 2M	2480	Ant1	2.27	0	2.27	30	Pass



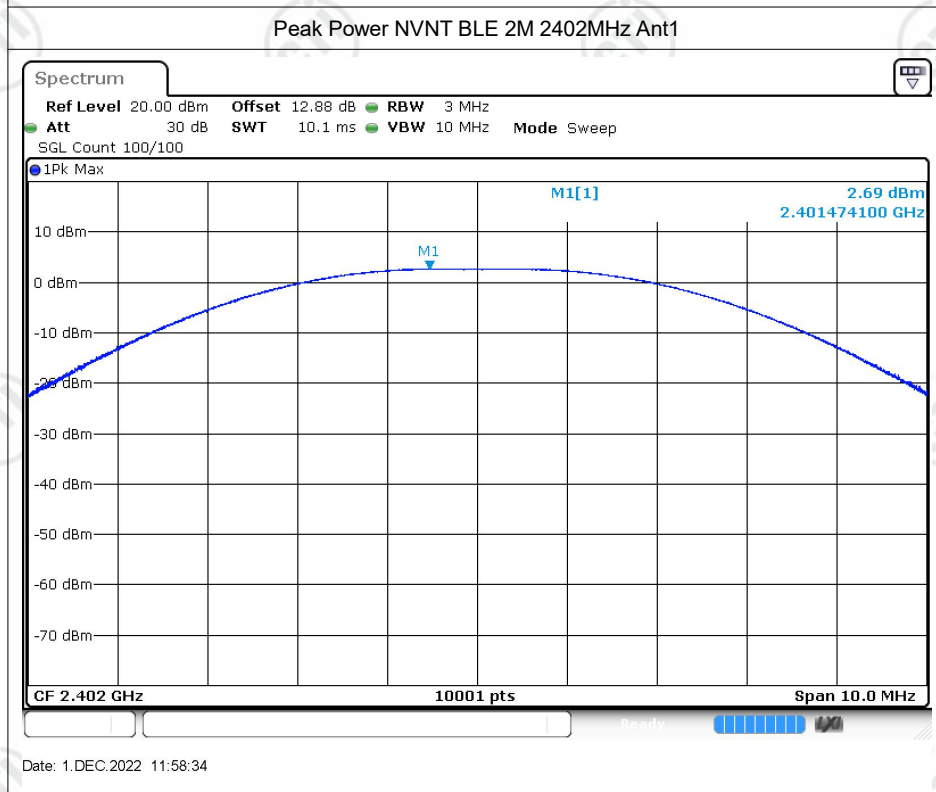
Date: 1.DEC.2022 11:53:43



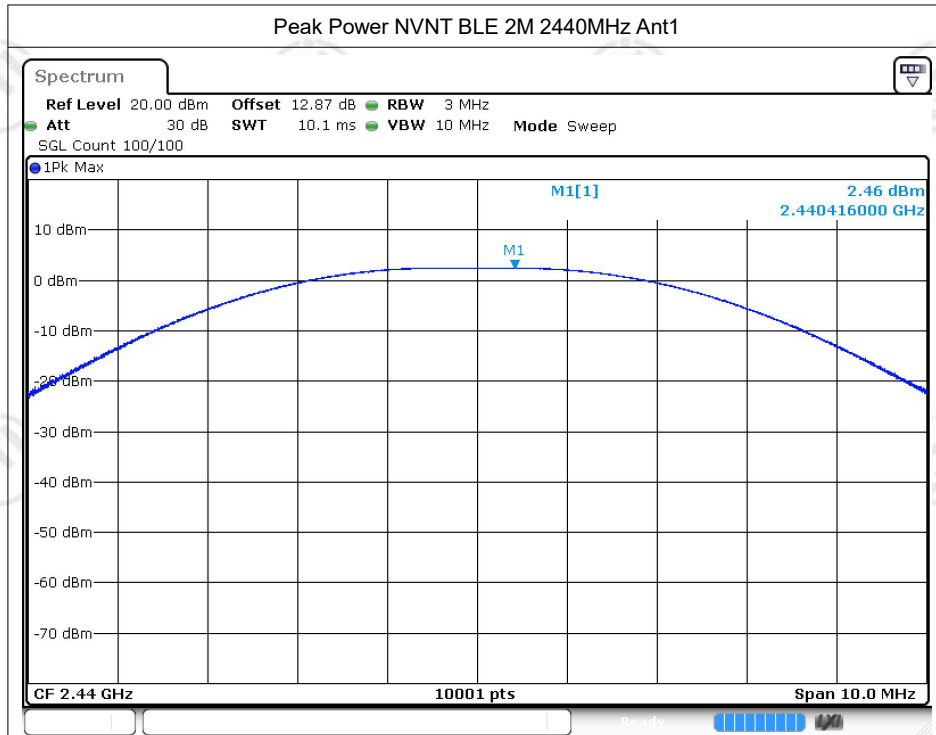
Date: 1.DEC.2022 11:55:23



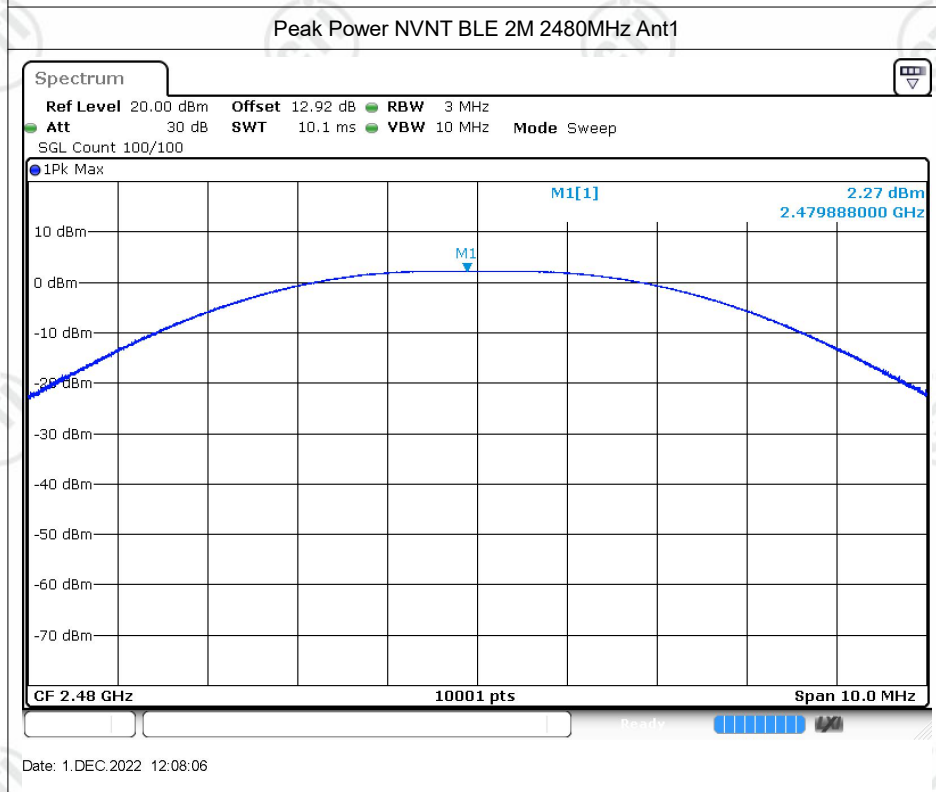
Date: 1.DEC.2022 11:56:52



Date: 1.DEC.2022 11:58:34



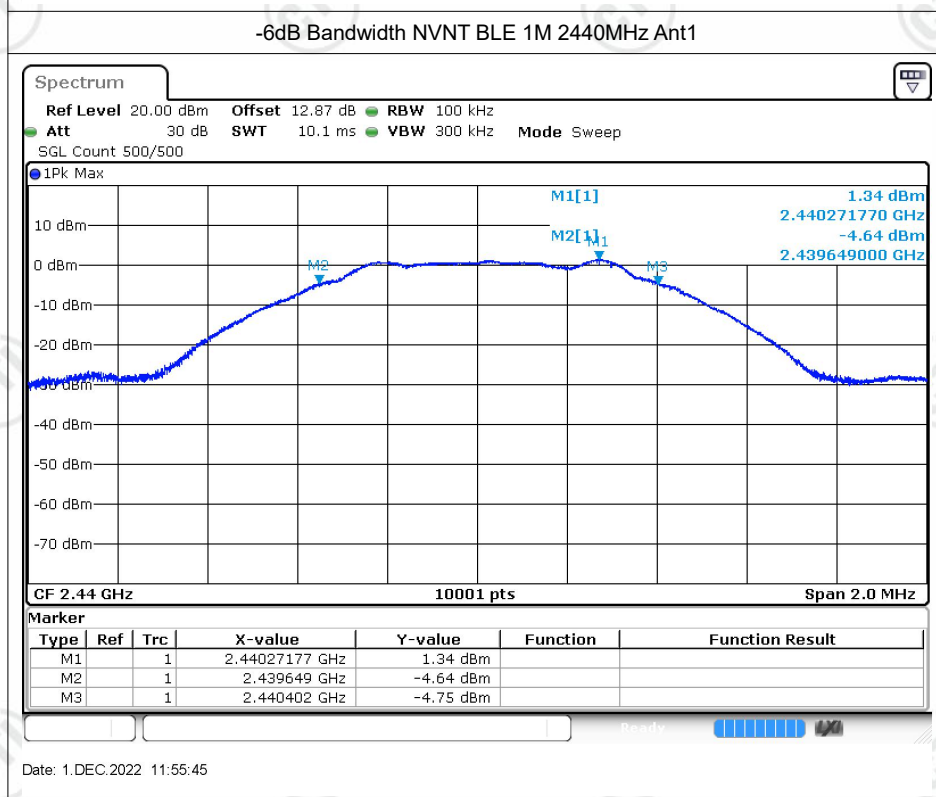
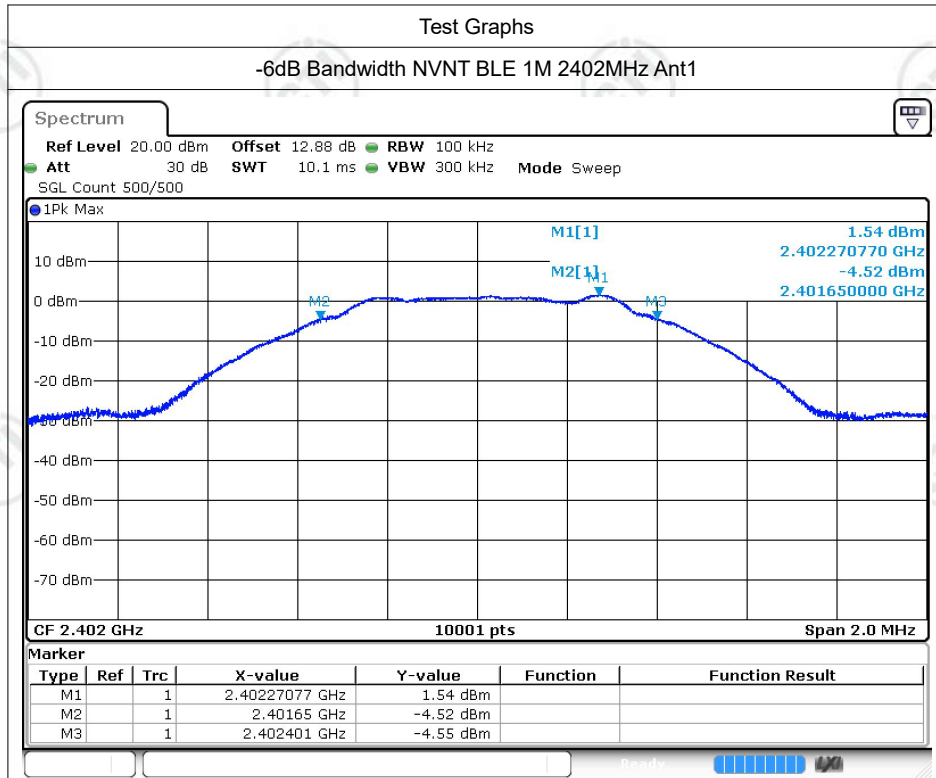
Date: 1.DEC.2022 12:00:38

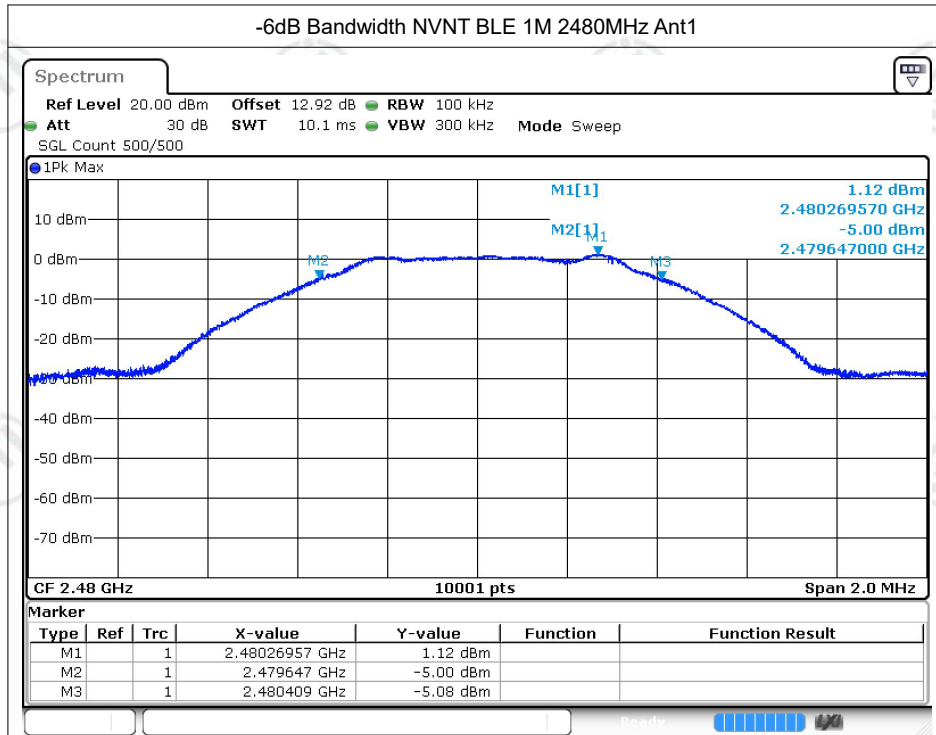


Date: 1.DEC.2022 12:08:06

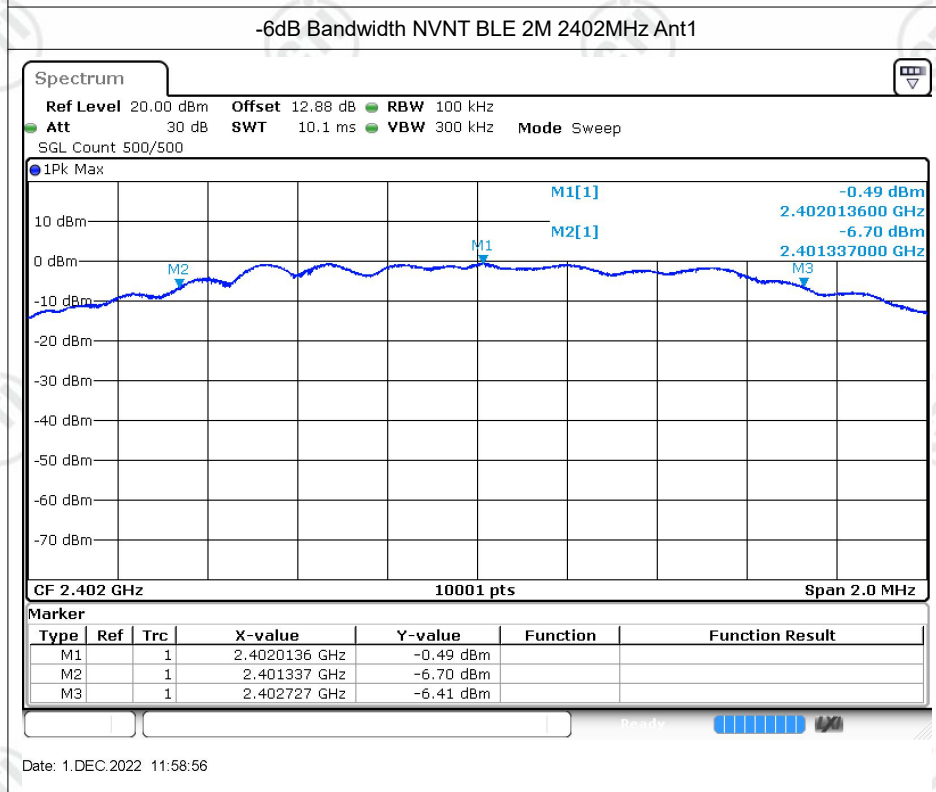
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.751	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.753	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.762	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.391	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.384	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.387	0.5	Pass

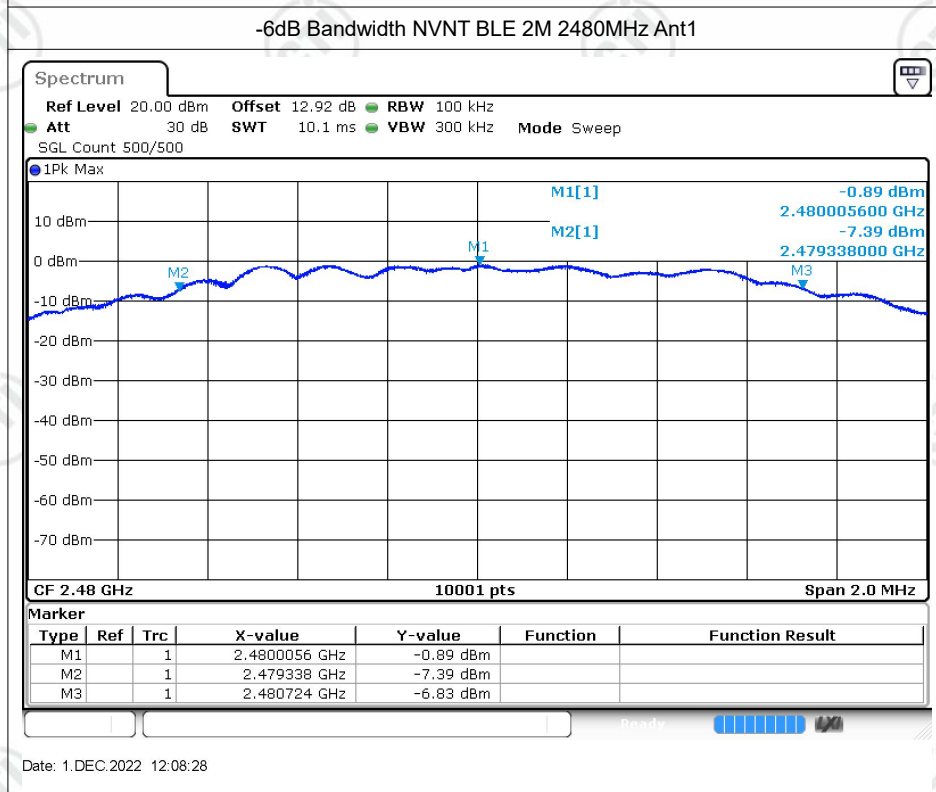
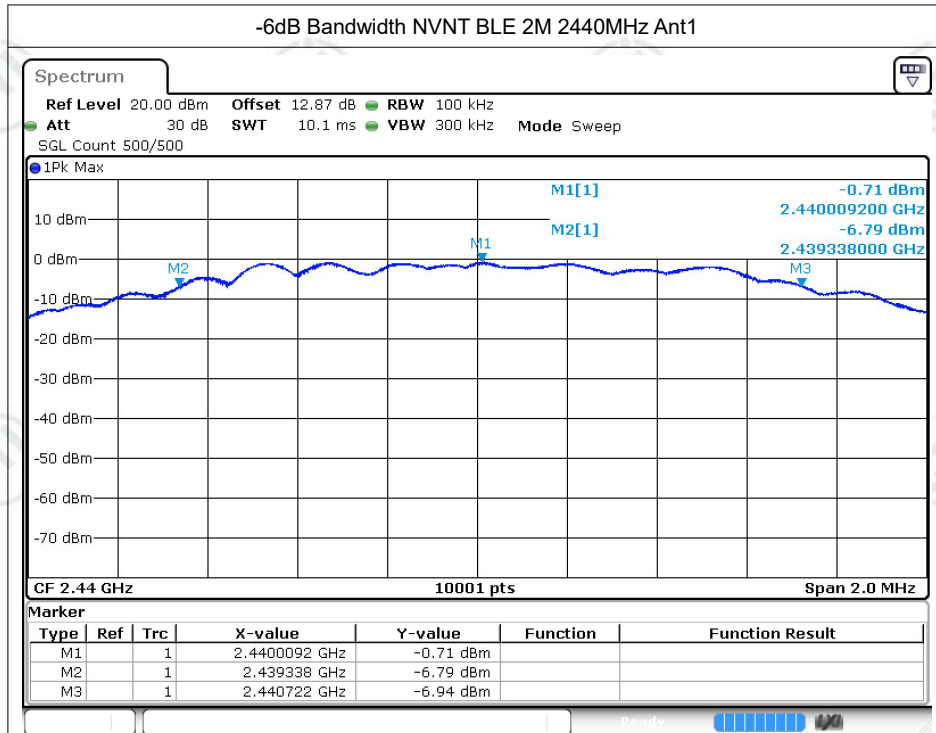




Date: 1.DEC.2022 11:57:14

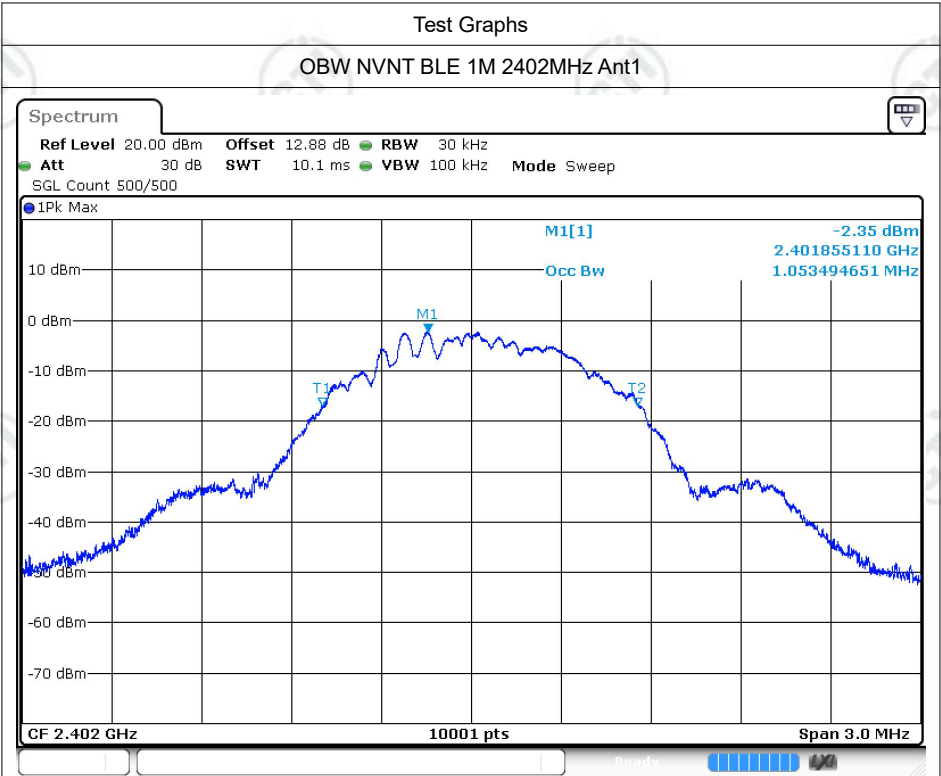


Date: 1.DEC.2022 11:58:56

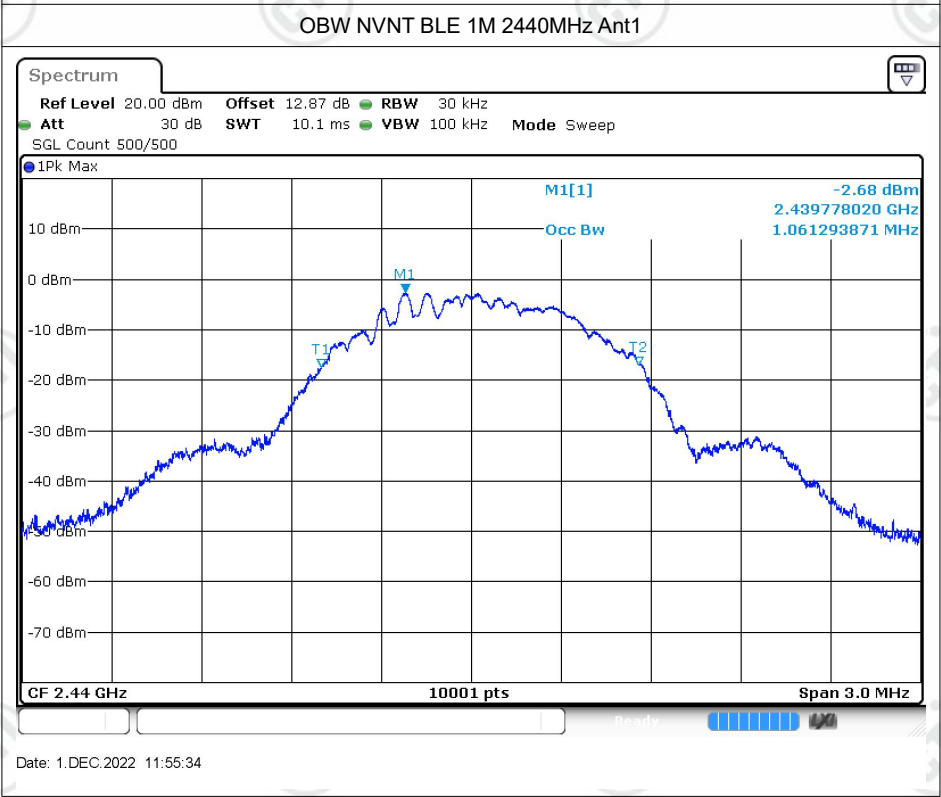


Occupied Channel Bandwidth

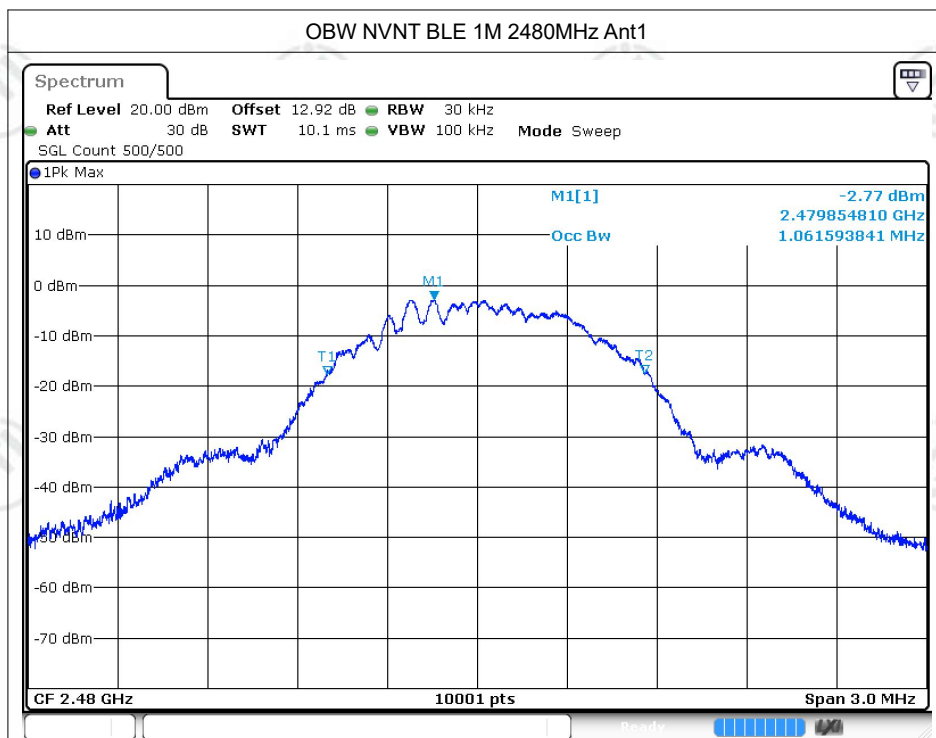
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.053
NVNT	BLE 1M	2440	Ant1	1.061
NVNT	BLE 1M	2480	Ant1	1.062
NVNT	BLE 2M	2402	Ant1	2.082
NVNT	BLE 2M	2440	Ant1	2.076
NVNT	BLE 2M	2480	Ant1	2.083



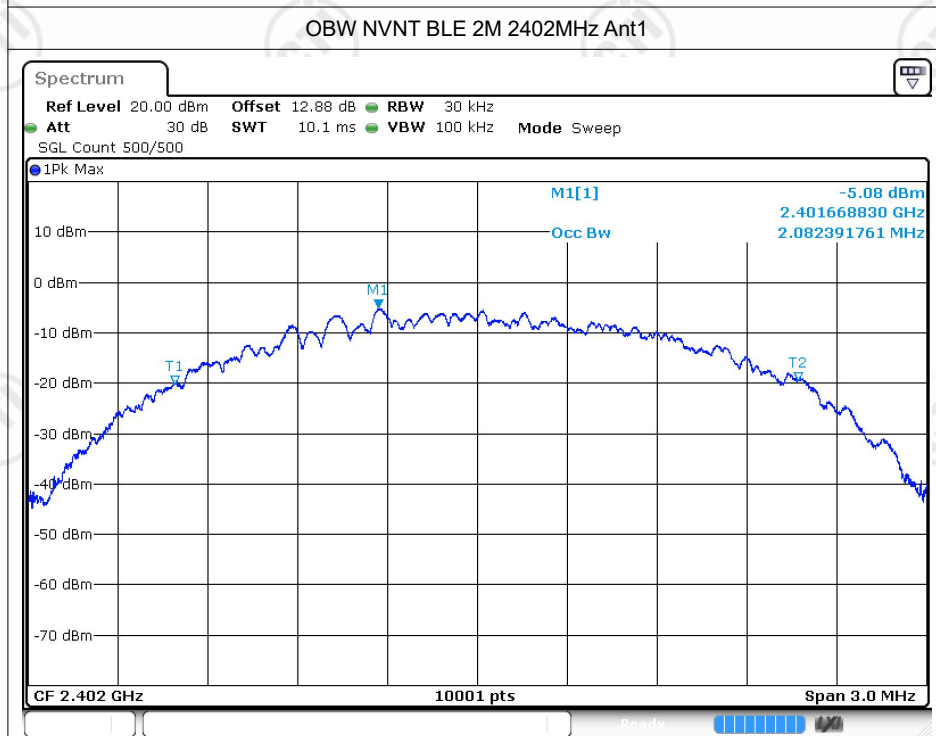
Date: 1.DEC.2022 11:53:54



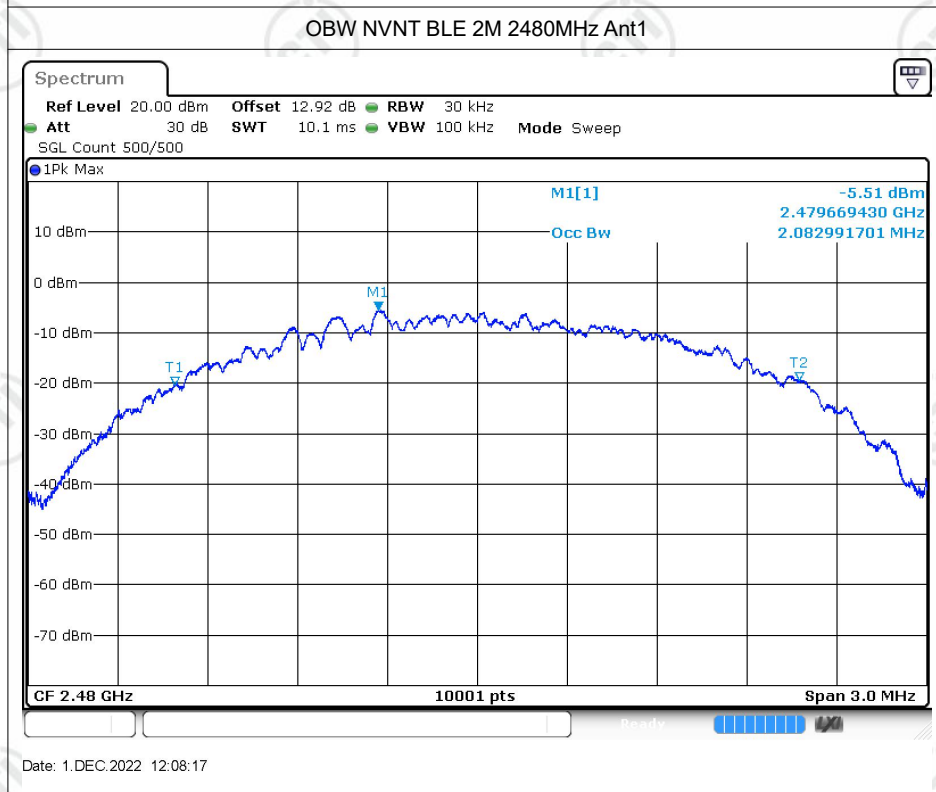
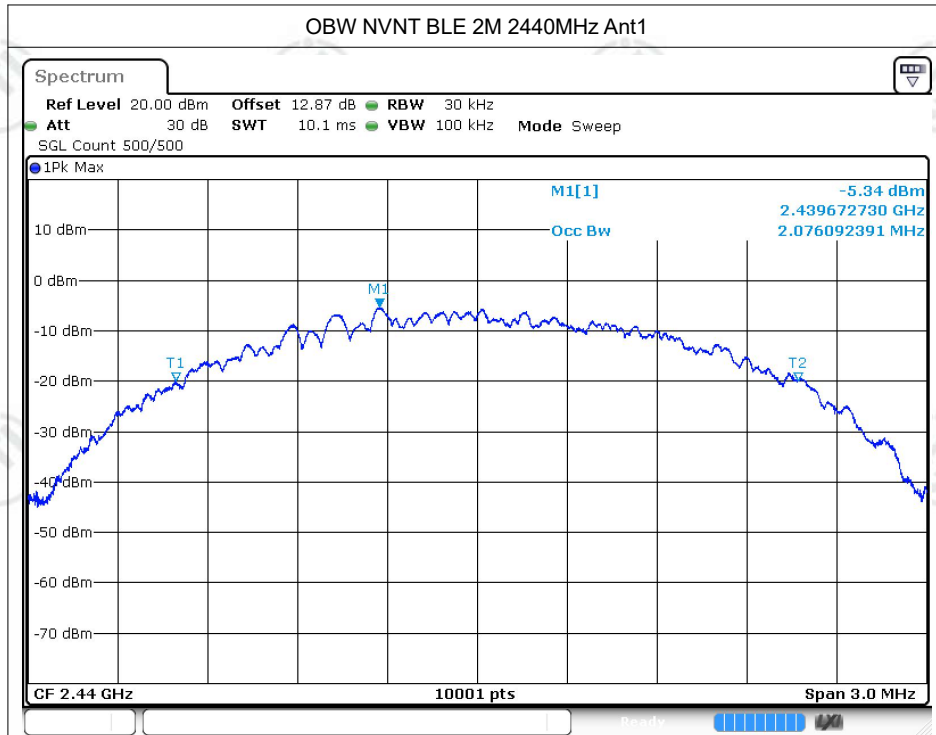
Date: 1.DEC.2022 11:55:34



Date: 1.DEC.2022 11:57:03

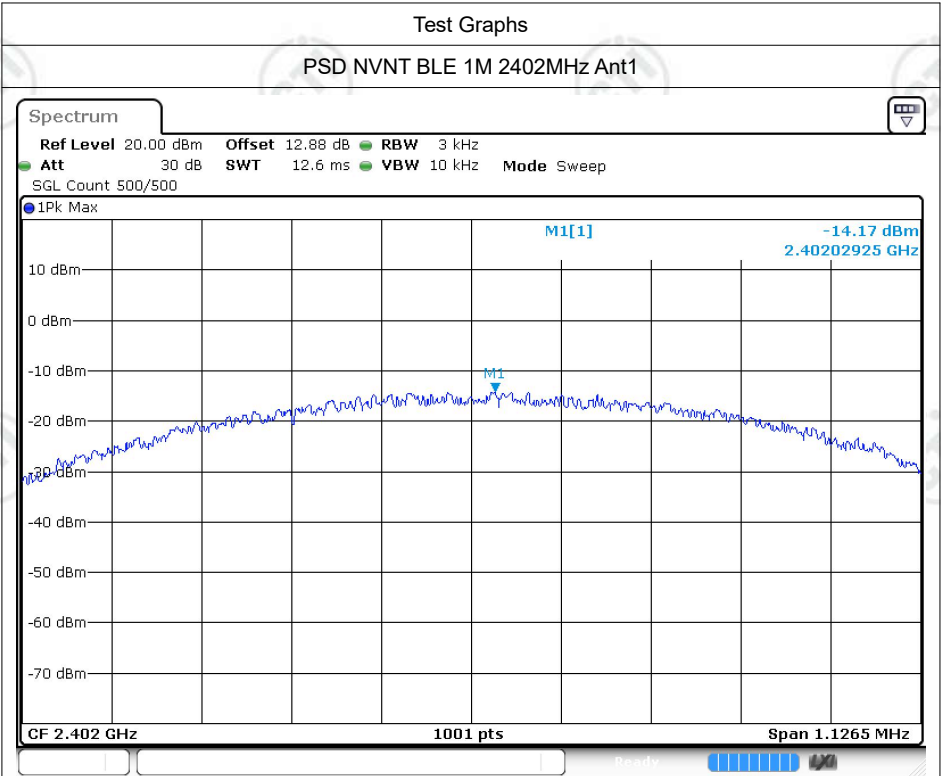


Date: 1.DEC.2022 11:58:45

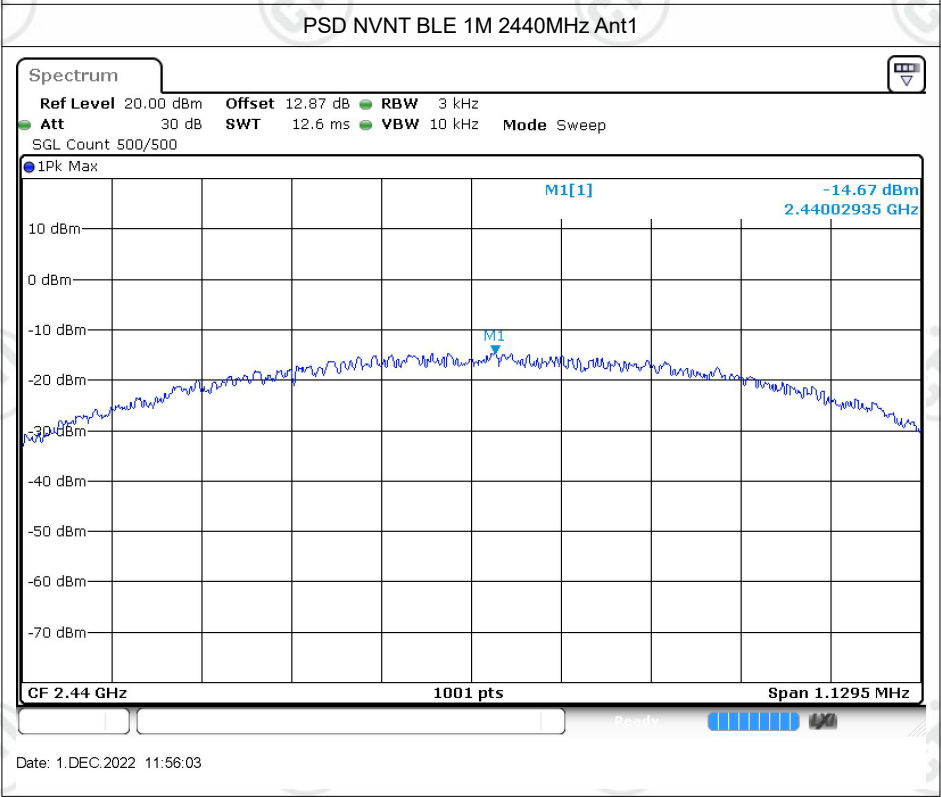


Maximum Power Spectral Density Level

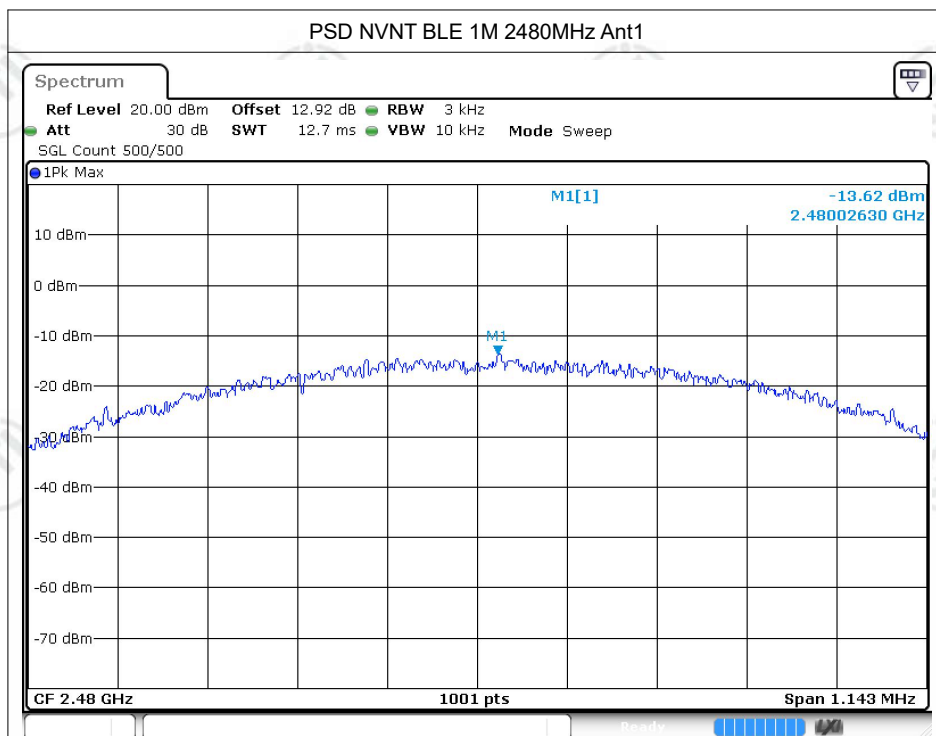
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-14.17	0	-14.17	8	Pass
NVNT	BLE 1M	2440	Ant1	-14.67	0	-14.67	8	Pass
NVNT	BLE 1M	2480	Ant1	-13.62	0	-13.62	8	Pass
NVNT	BLE 2M	2402	Ant1	-18.77	0	-18.77	8	Pass
NVNT	BLE 2M	2440	Ant1	-19.01	0	-19.01	8	Pass
NVNT	BLE 2M	2480	Ant1	-19.12	0	-19.12	8	Pass



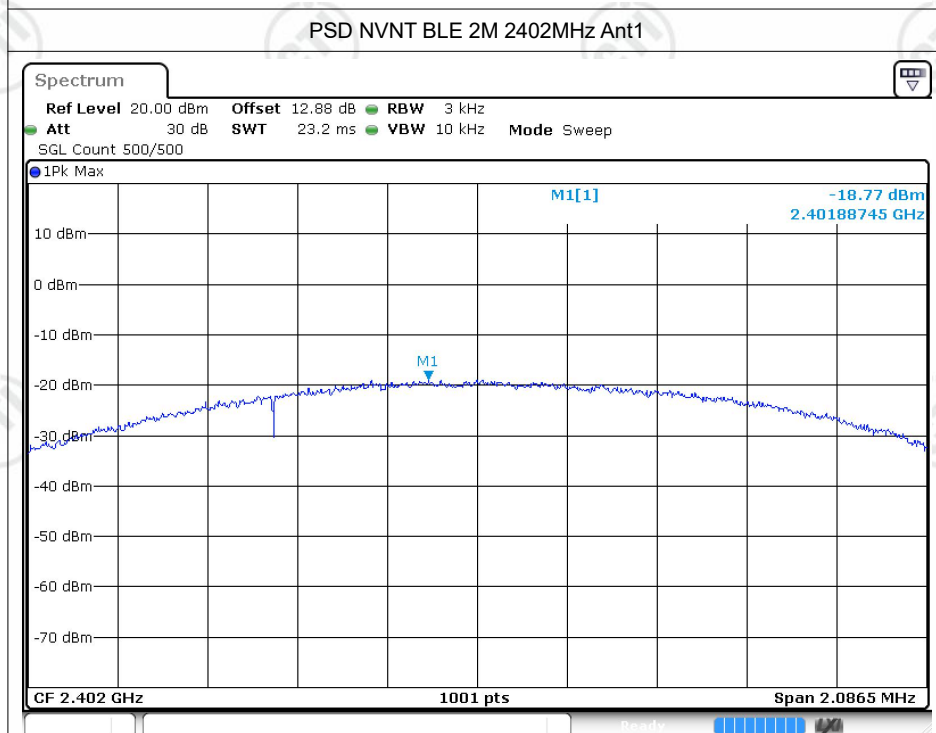
Date: 1.DEC.2022 11:54:24



Date: 1.DEC.2022 11:56:03



Date: 1.DEC.2022 11:57:32



Date: 1.DEC.2022 11:59:24