

Appendix: Bluetooth LE

Contents

Duty Cycle3

Maximum Peak Conducted Output Power 7

-6dB Bandwidth 11

Occupied Channel Bandwidth 15

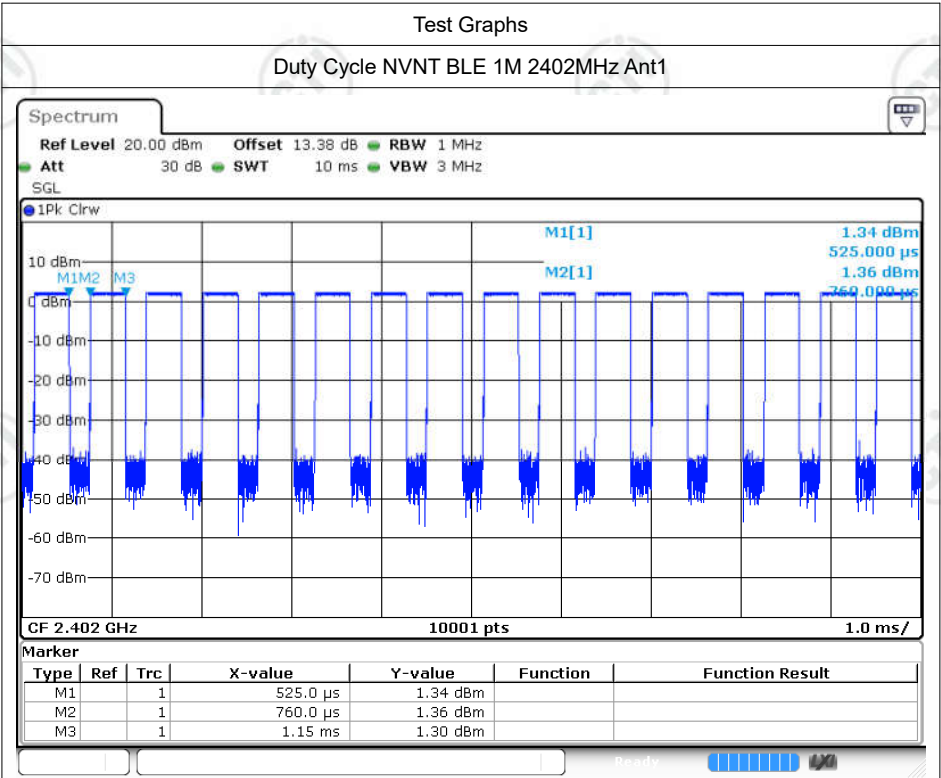
Maximum Power Spectral Density Level 19

Band Edge 23

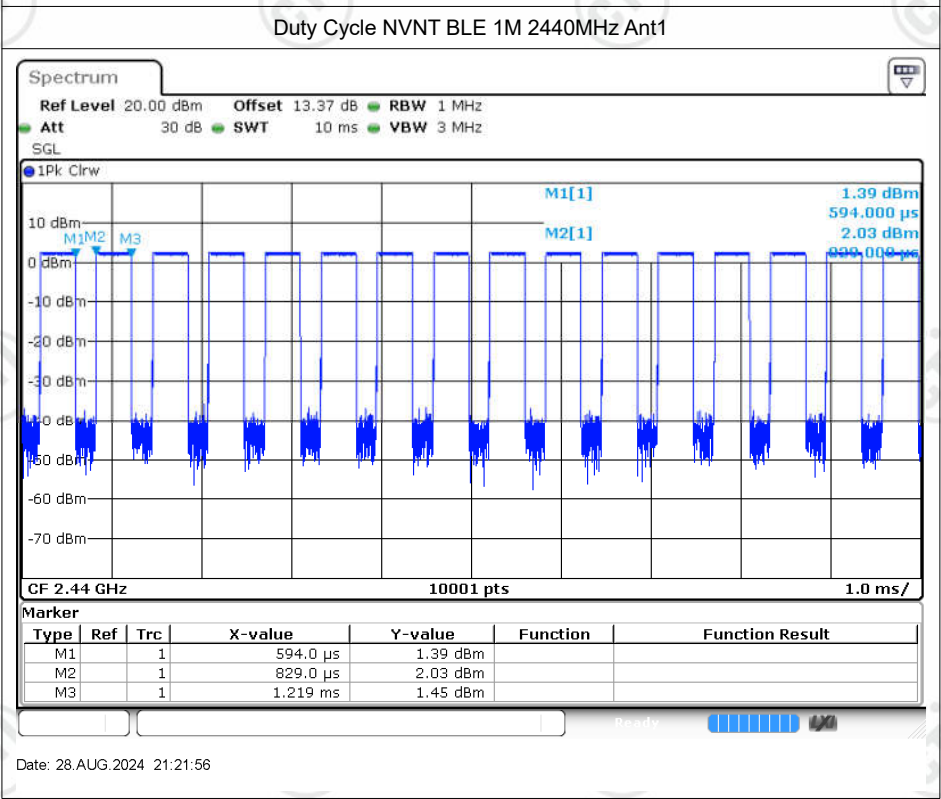
Conducted RF Spurious Emission 28

Duty Cycle

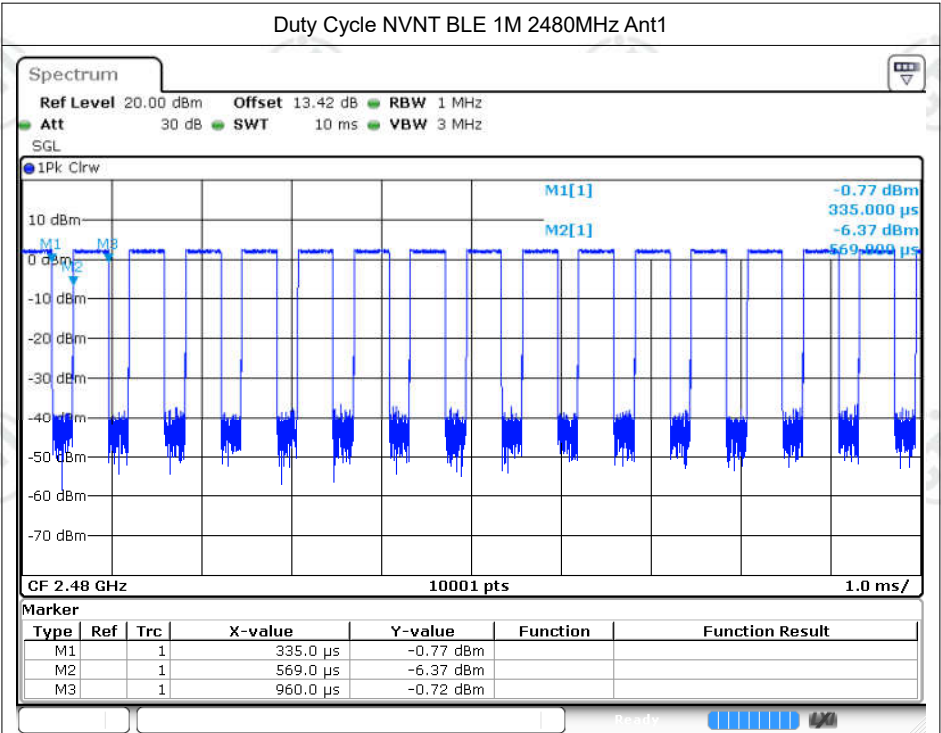
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	62.4	2.05	2.56
NVNT	BLE 1M	2440	Ant1	62.4	2.05	2.56
NVNT	BLE 1M	2480	Ant1	62.56	2.04	2.56
NVNT	BLE 2M	2402	Ant1	33.12	4.8	4.83
NVNT	BLE 2M	2440	Ant1	32.96	4.82	4.85
NVNT	BLE 2M	2480	Ant1	33.12	4.8	4.83



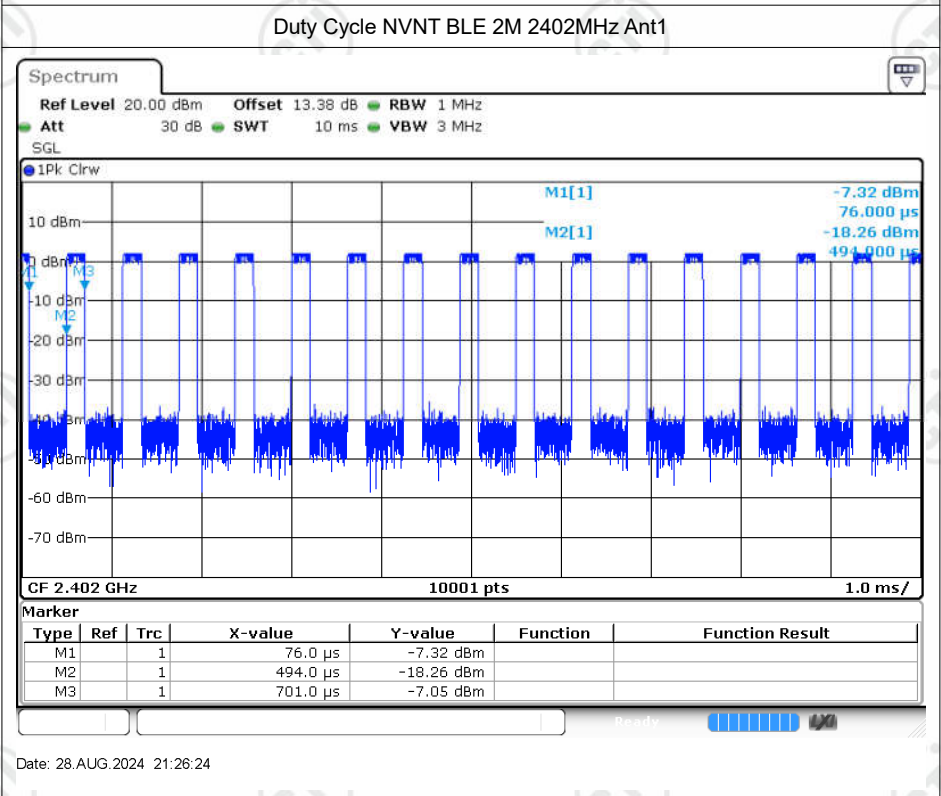
Date: 28.AUG.2024 21:20:10



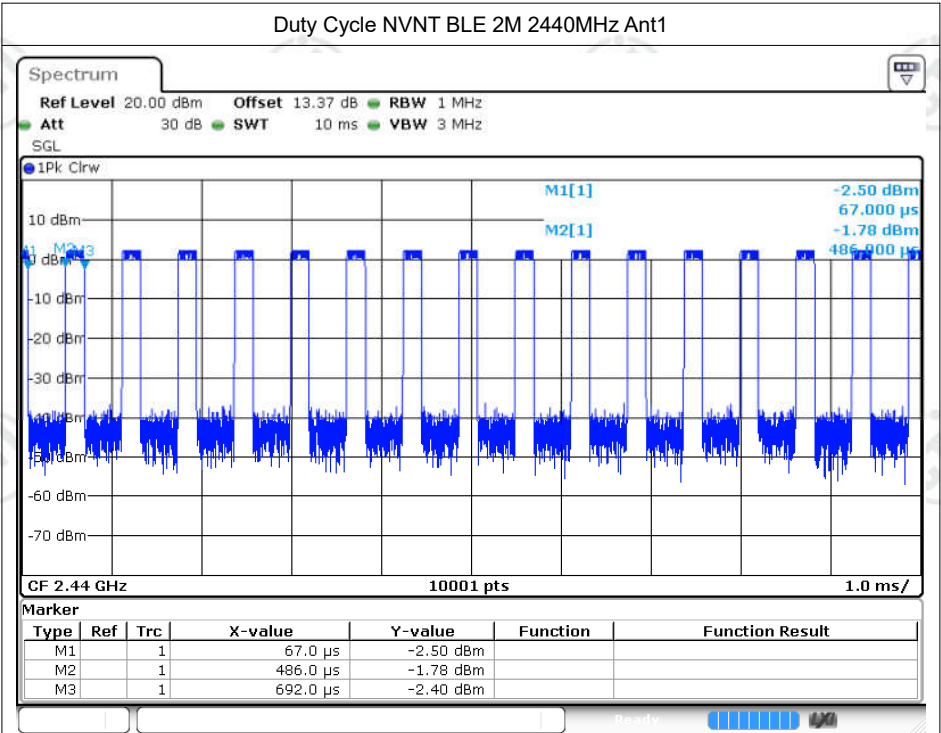
Date: 28.AUG.2024 21:21:56



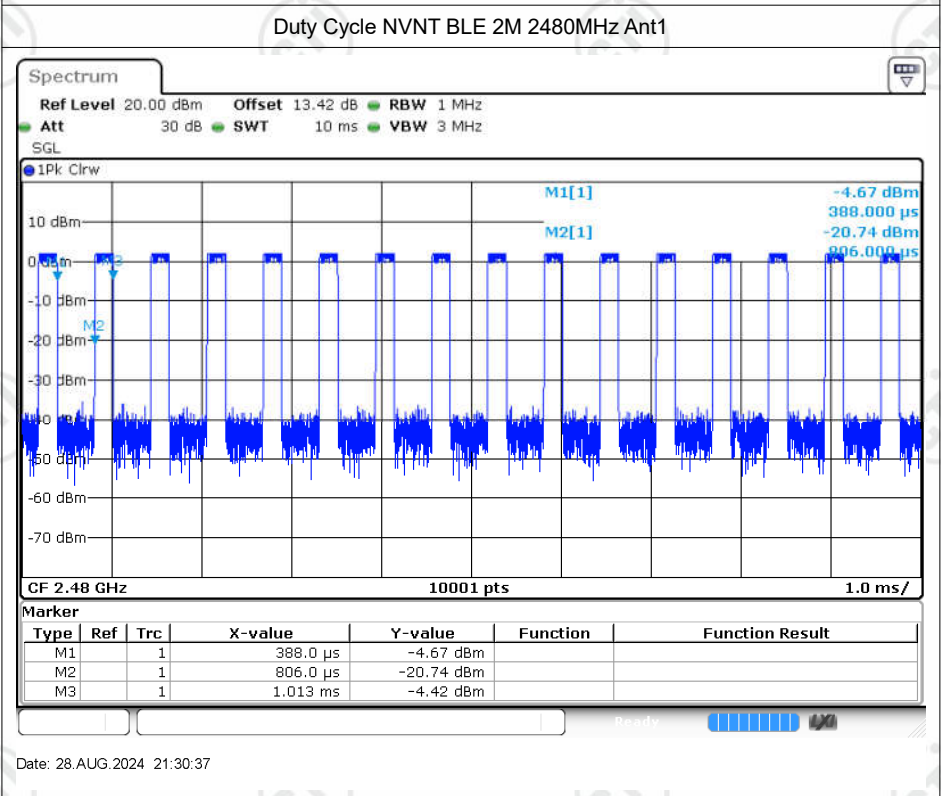
Date: 28.AUG.2024 21:23:45



Date: 28.AUG.2024 21:26:24



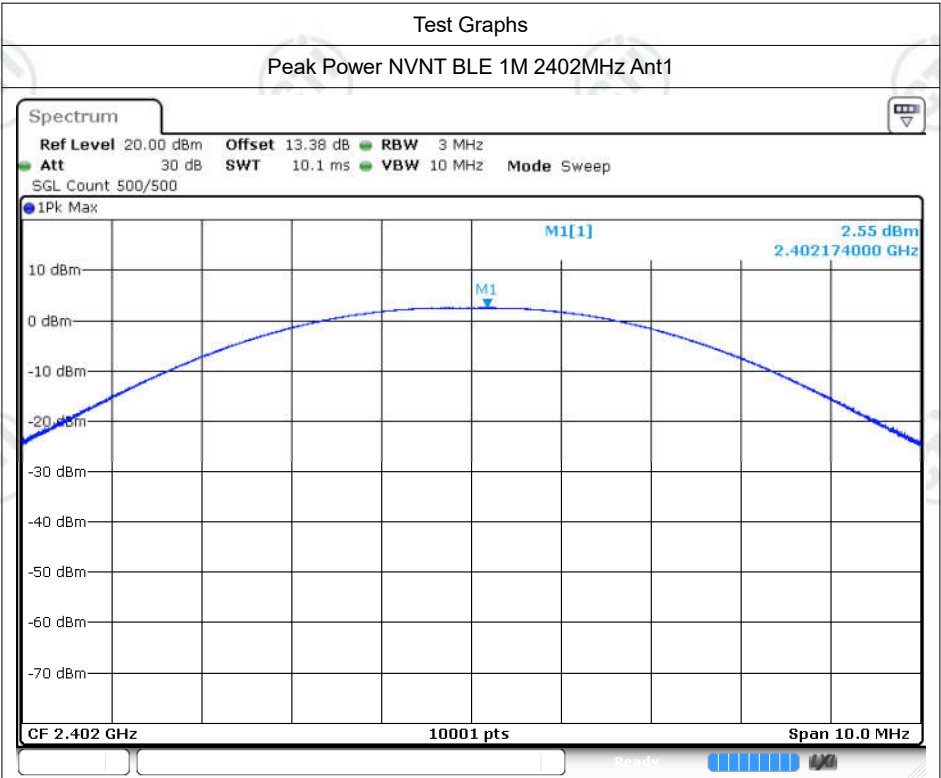
Date: 28.AUG.2024 21:29:02



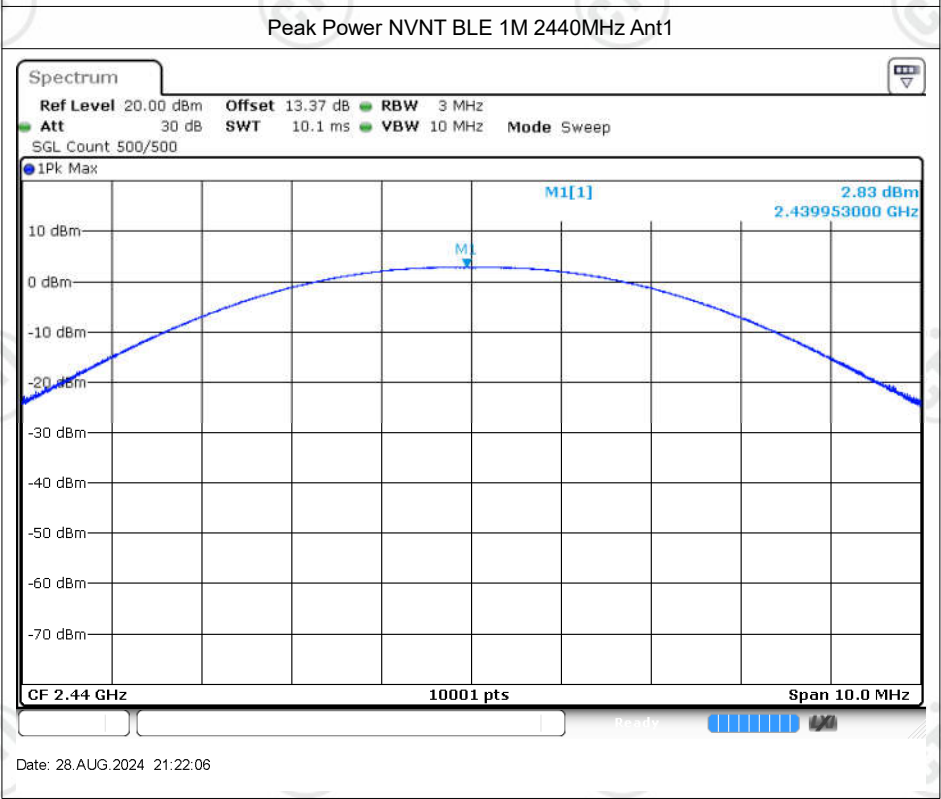
Date: 28.AUG.2024 21:30:37

Maximum Peak Conducted Output Power

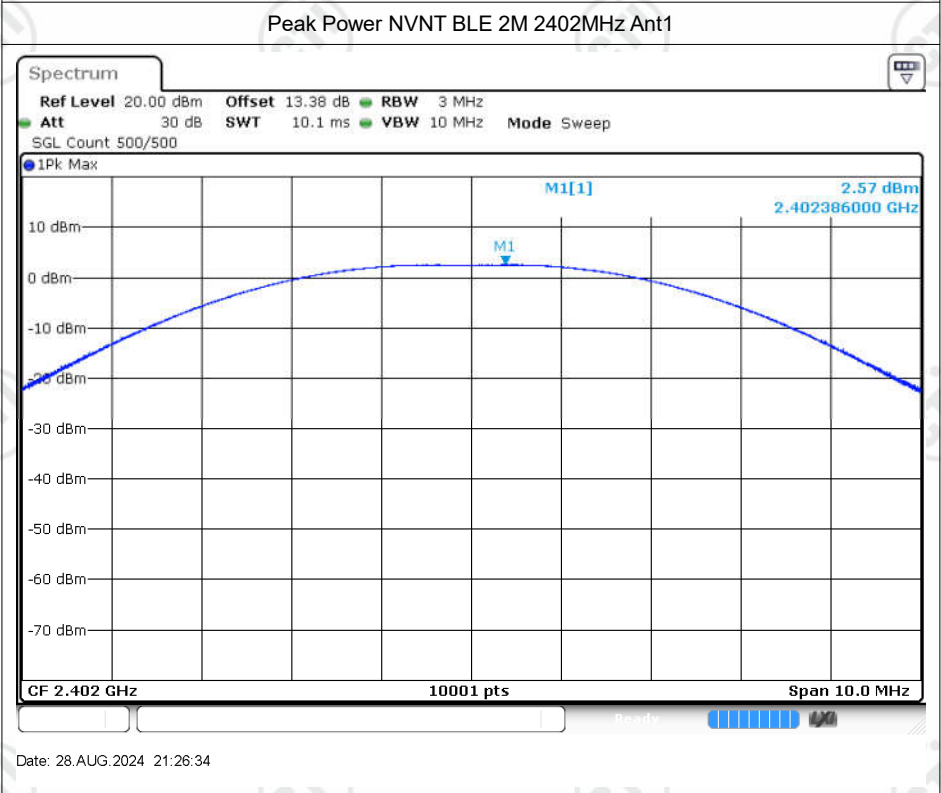
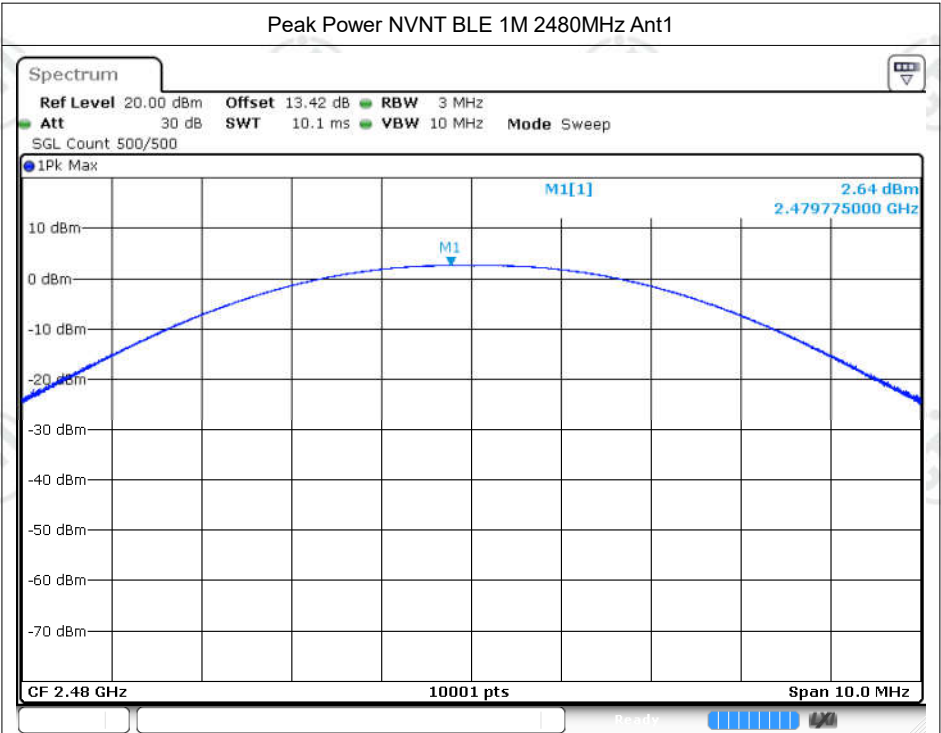
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	2.55	30	Pass
NVNT	BLE 1M	2440	Ant1	2.83	30	Pass
NVNT	BLE 1M	2480	Ant1	2.64	30	Pass
NVNT	BLE 2M	2402	Ant1	2.57	30	Pass
NVNT	BLE 2M	2440	Ant1	2.85	30	Pass
NVNT	BLE 2M	2480	Ant1	2.64	30	Pass

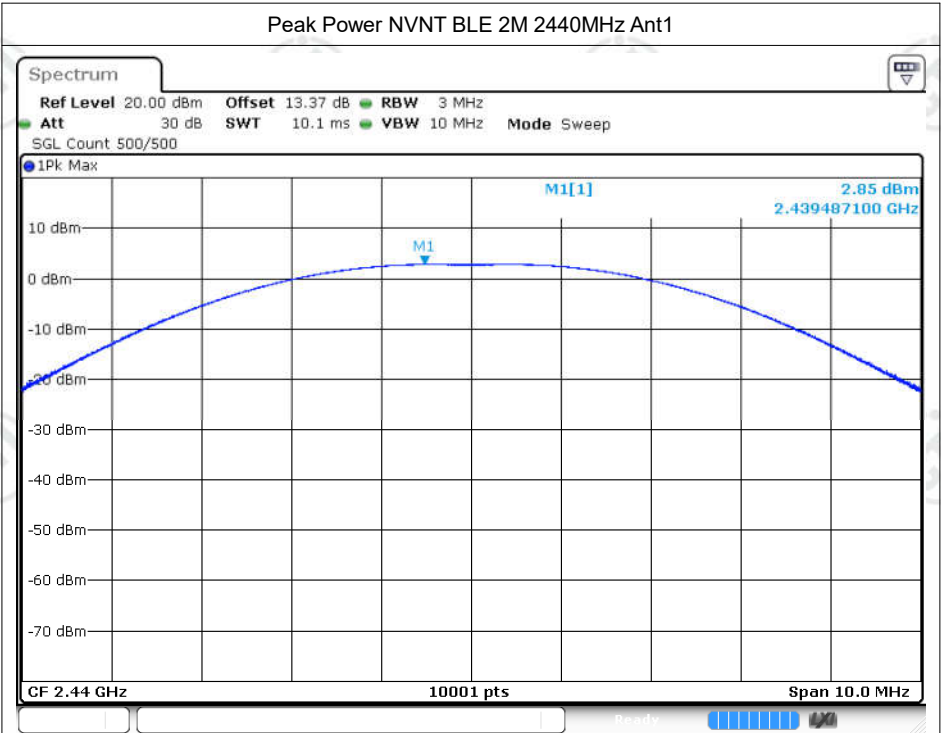


Date: 28.AUG.2024 21:20:21

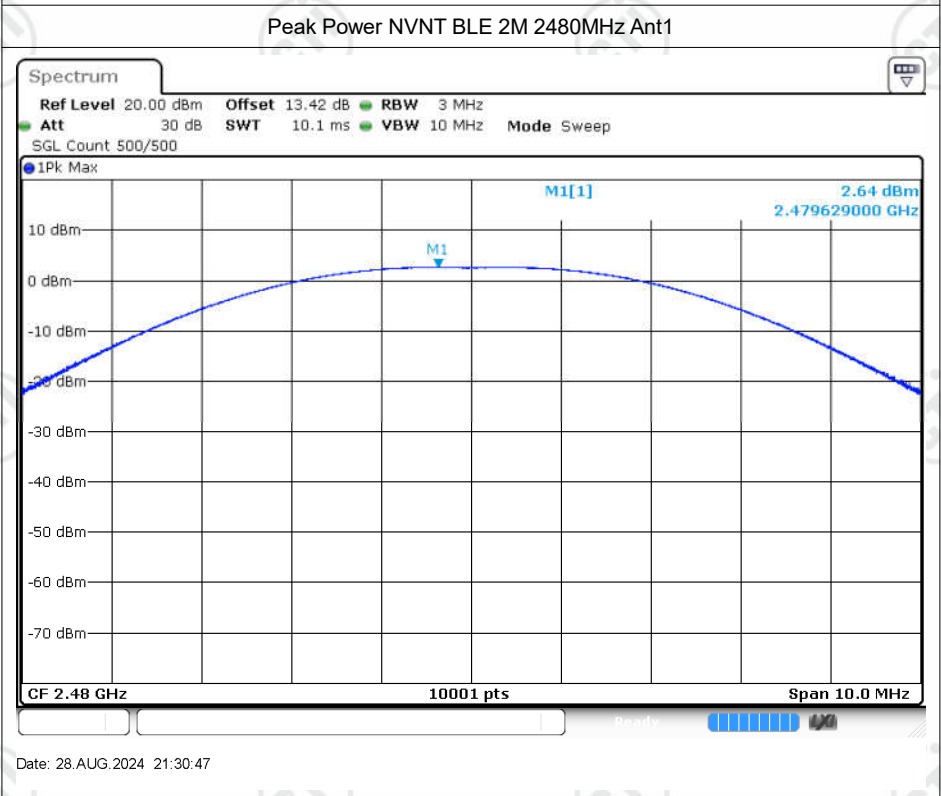


Date: 28.AUG.2024 21:22:06





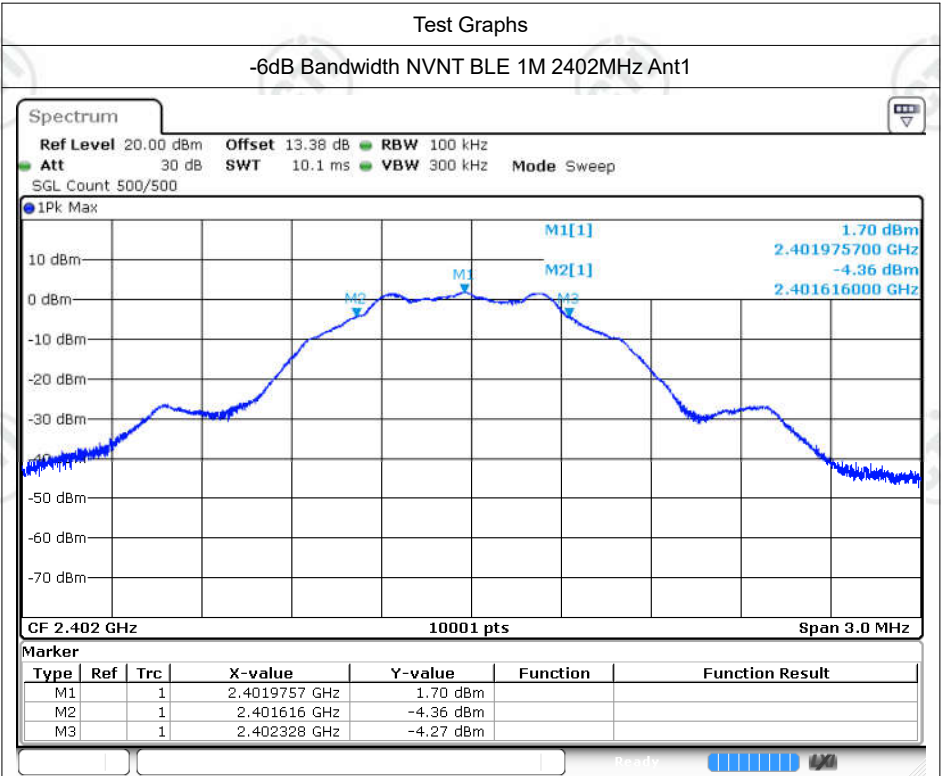
Date: 28.AUG.2024 21:29:12



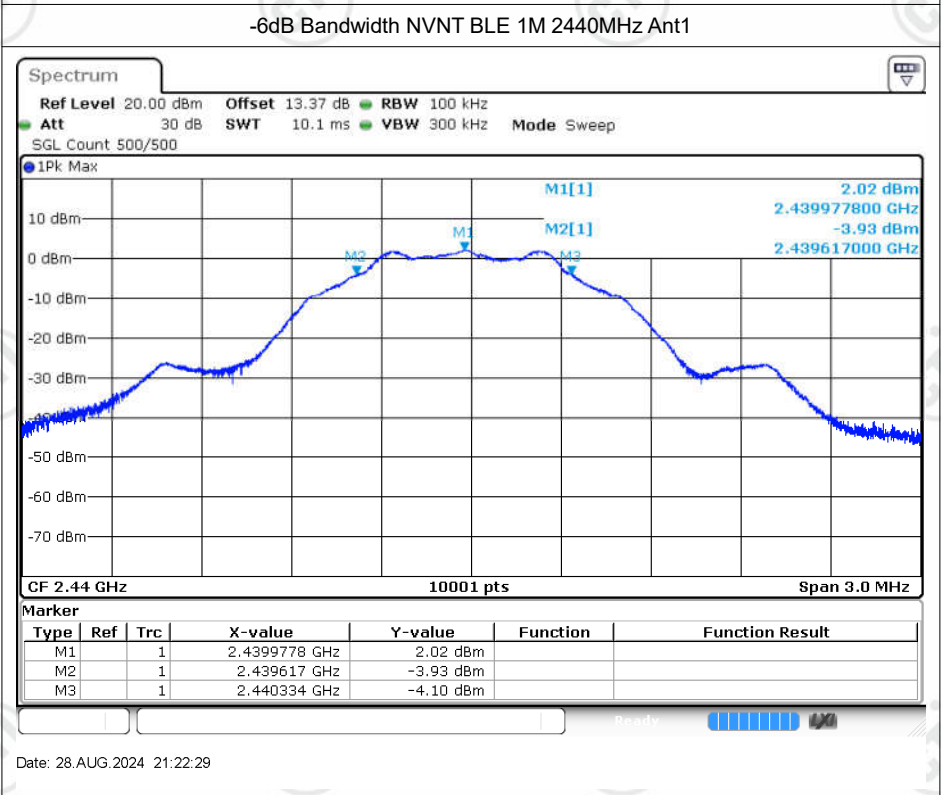
Date: 28.AUG.2024 21:30:47

-6dB Bandwidth

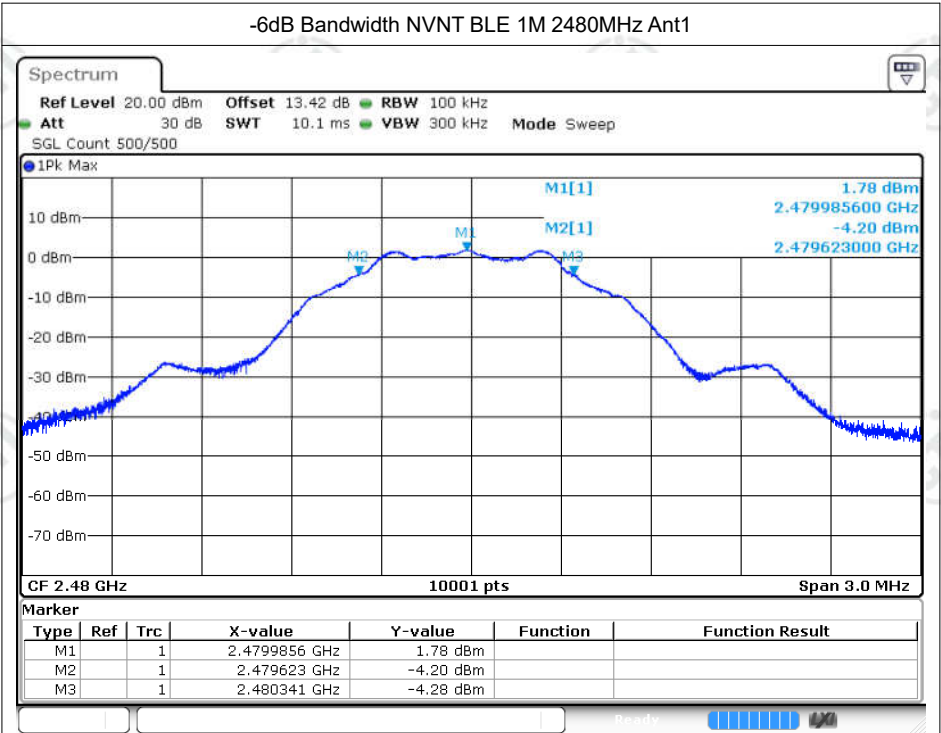
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.712	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.717	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.718	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.103	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.105	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.11	0.5	Pass



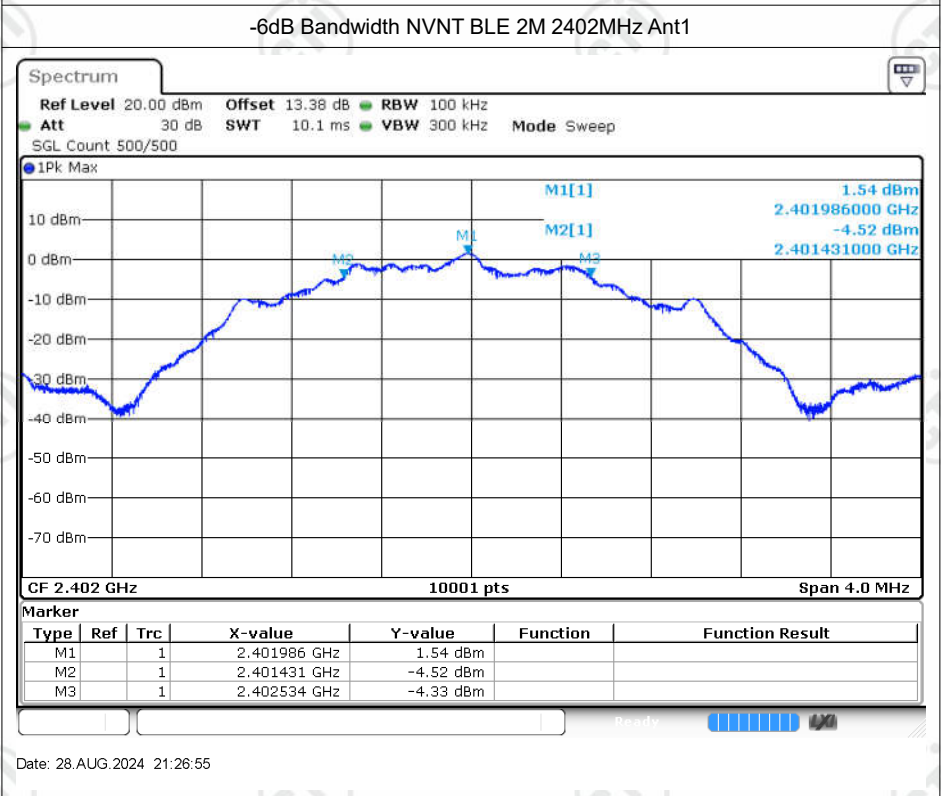
Date: 28.AUG.2024 21:20:44



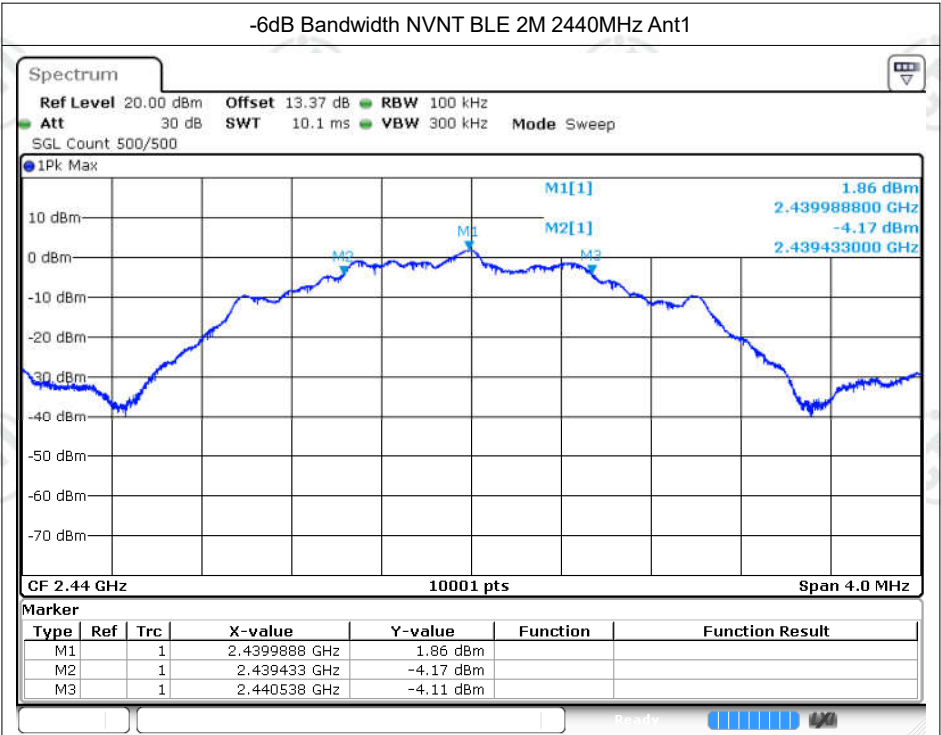
Date: 28.AUG.2024 21:22:29



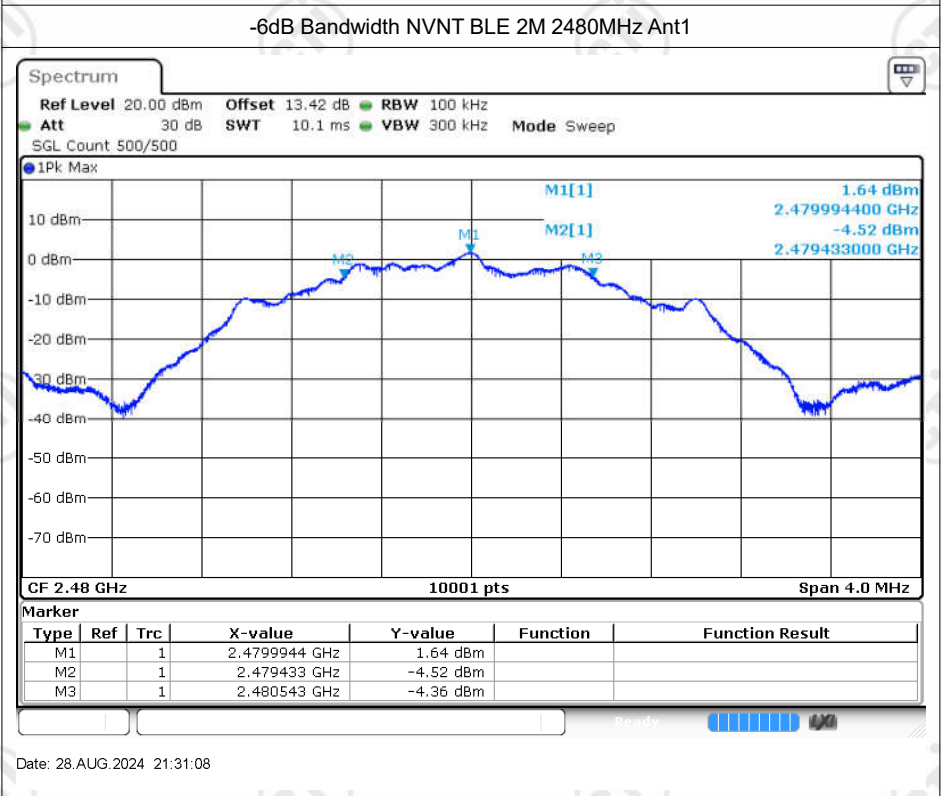
Date: 28.AUG.2024 21:24:18



Date: 28.AUG.2024 21:26:55



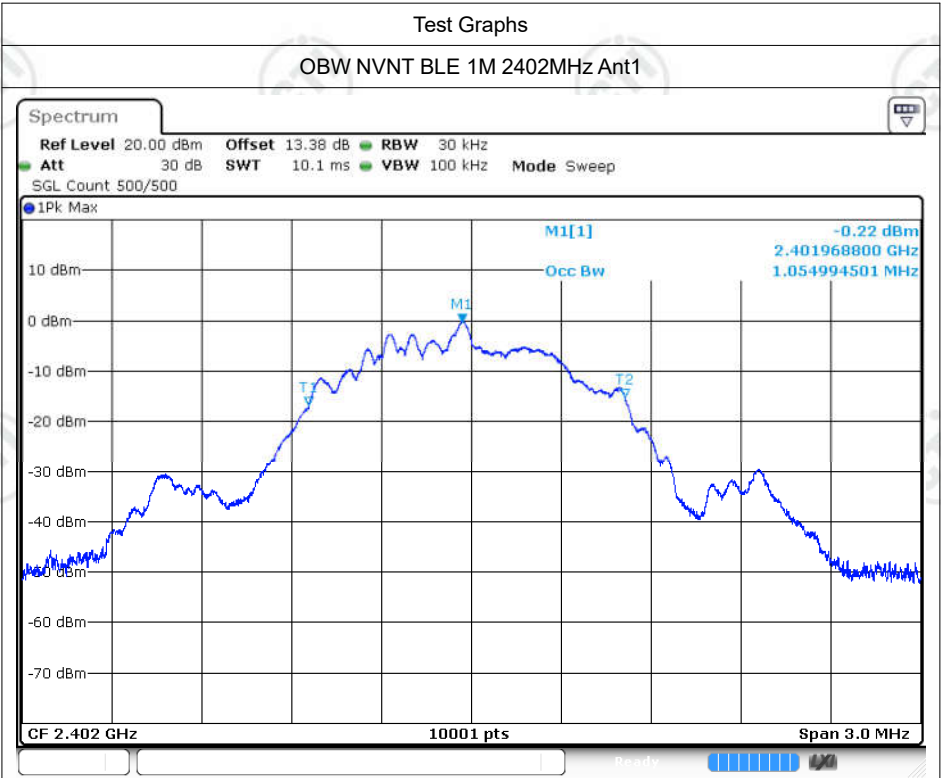
Date: 28.AUG.2024 21:29:33



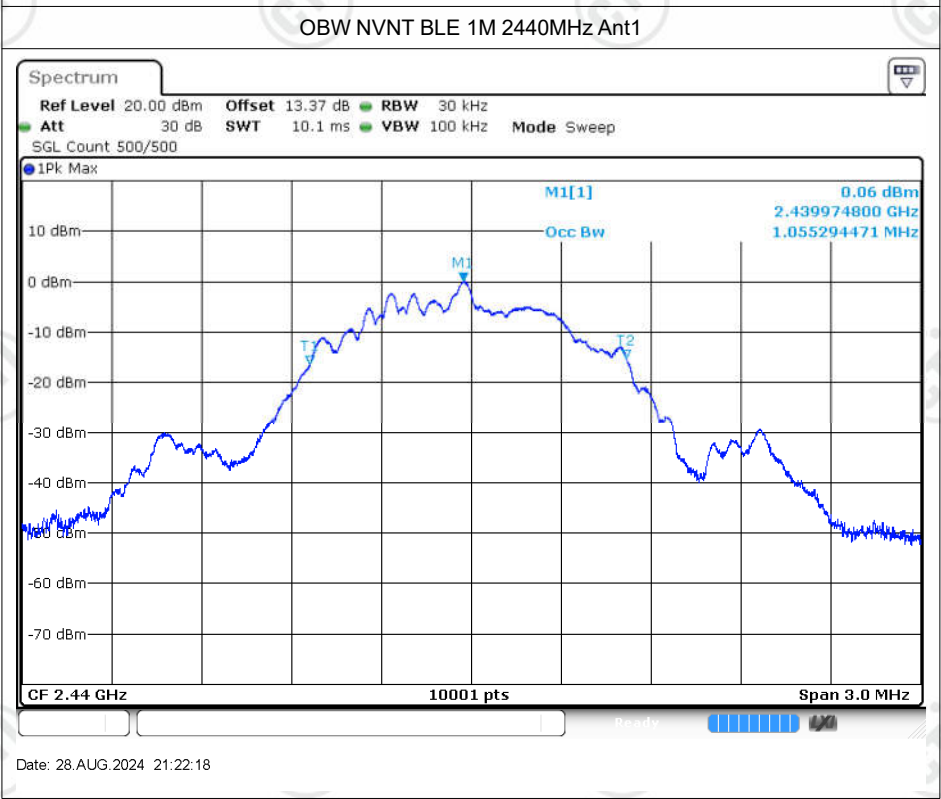
Date: 28.AUG.2024 21:31:08

Occupied Channel Bandwidth

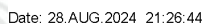
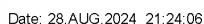
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.055
NVNT	BLE 1M	2440	Ant1	1.055
NVNT	BLE 1M	2480	Ant1	1.056
NVNT	BLE 2M	2402	Ant1	2.075
NVNT	BLE 2M	2440	Ant1	2.073
NVNT	BLE 2M	2480	Ant1	2.074

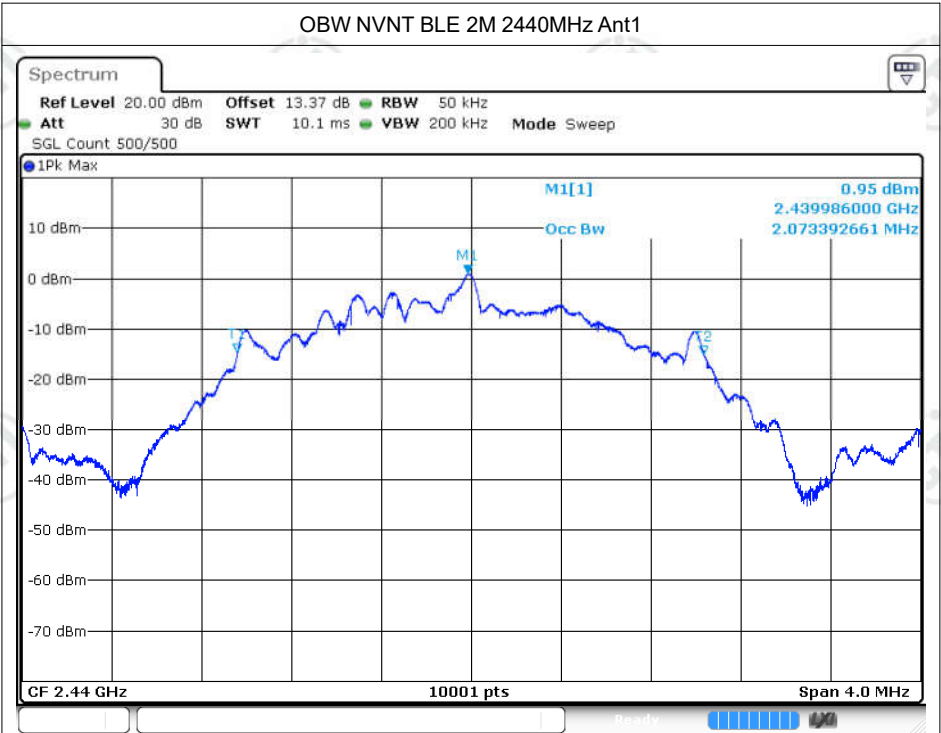


Date: 28.AUG.2024 21:20:32

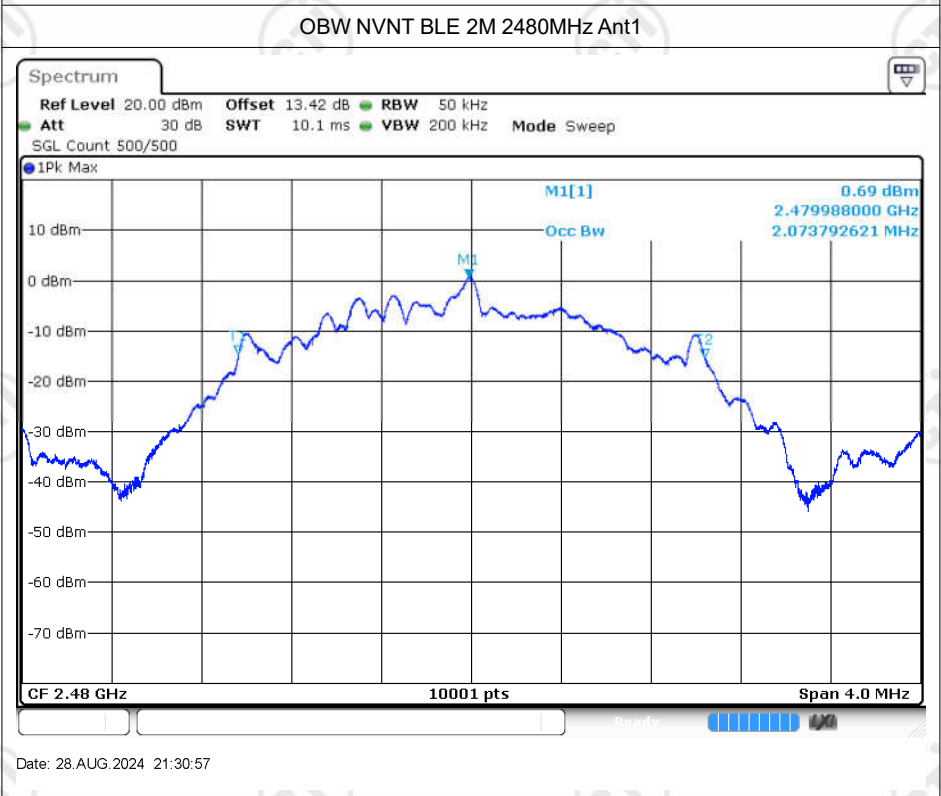


Date: 28.AUG.2024 21:22:18





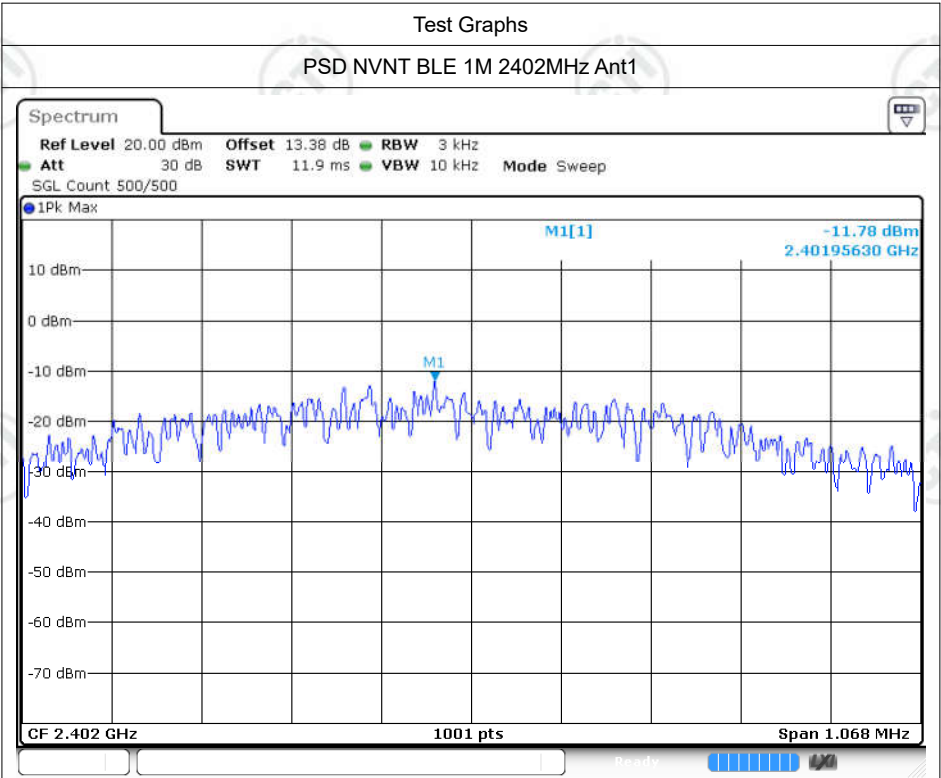
Date: 28.AUG.2024 21:29:23



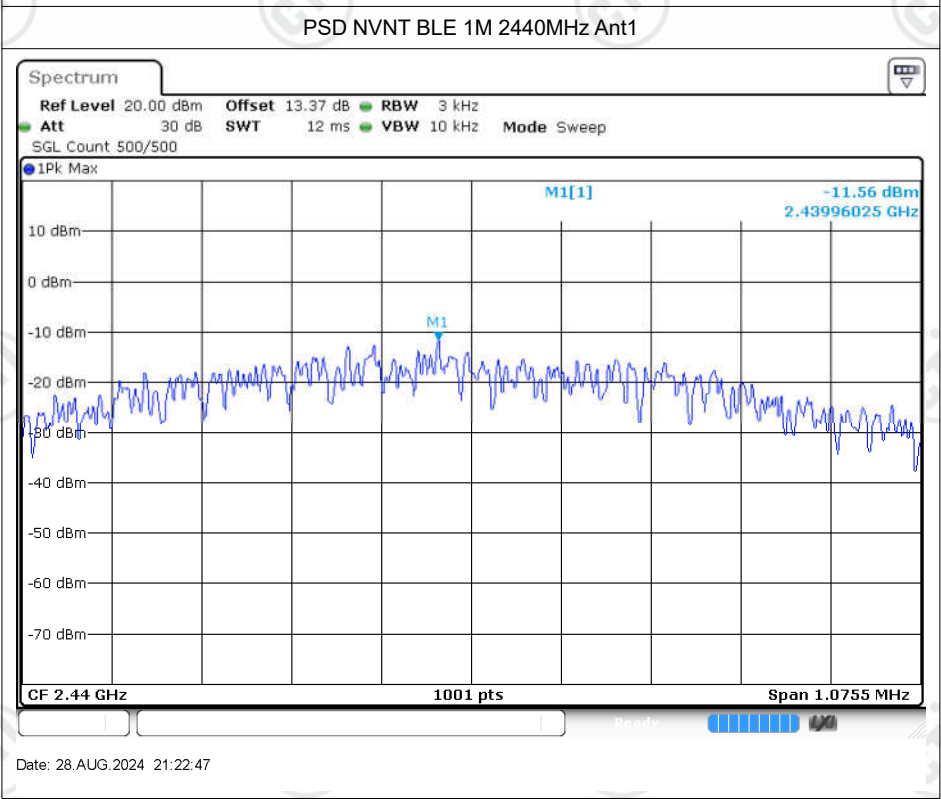
Date: 28.AUG.2024 21:30:57

Maximum Power Spectral Density Level

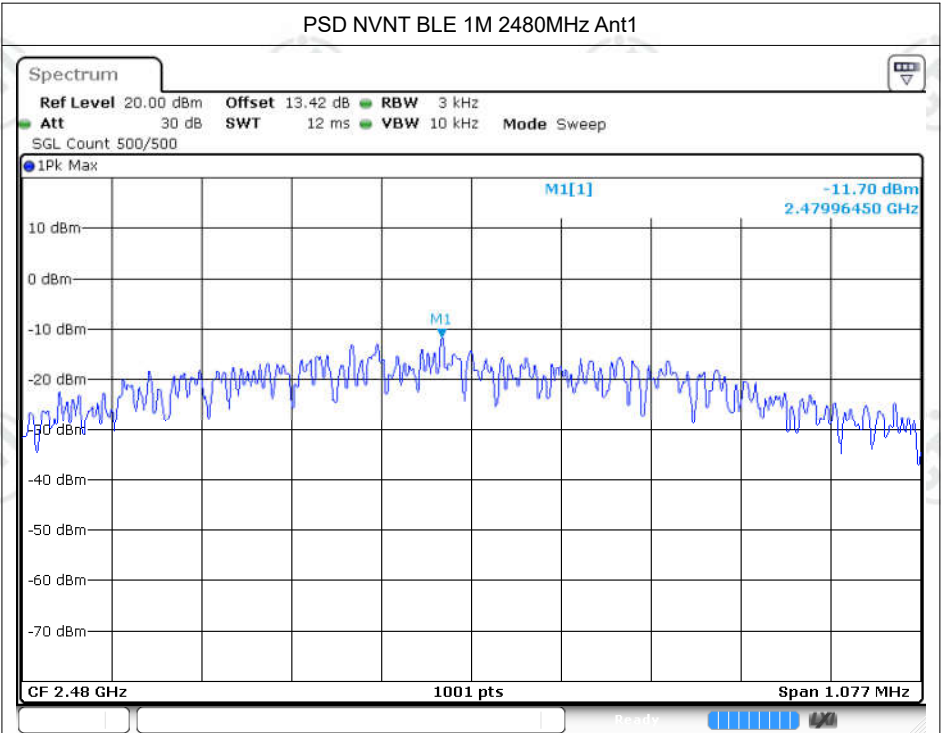
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-11.78	8	Pass
NVNT	BLE 1M	2440	Ant1	-11.56	8	Pass
NVNT	BLE 1M	2480	Ant1	-11.7	8	Pass
NVNT	BLE 2M	2402	Ant1	-14.89	8	Pass
NVNT	BLE 2M	2440	Ant1	-14.6	8	Pass
NVNT	BLE 2M	2480	Ant1	-14.86	8	Pass



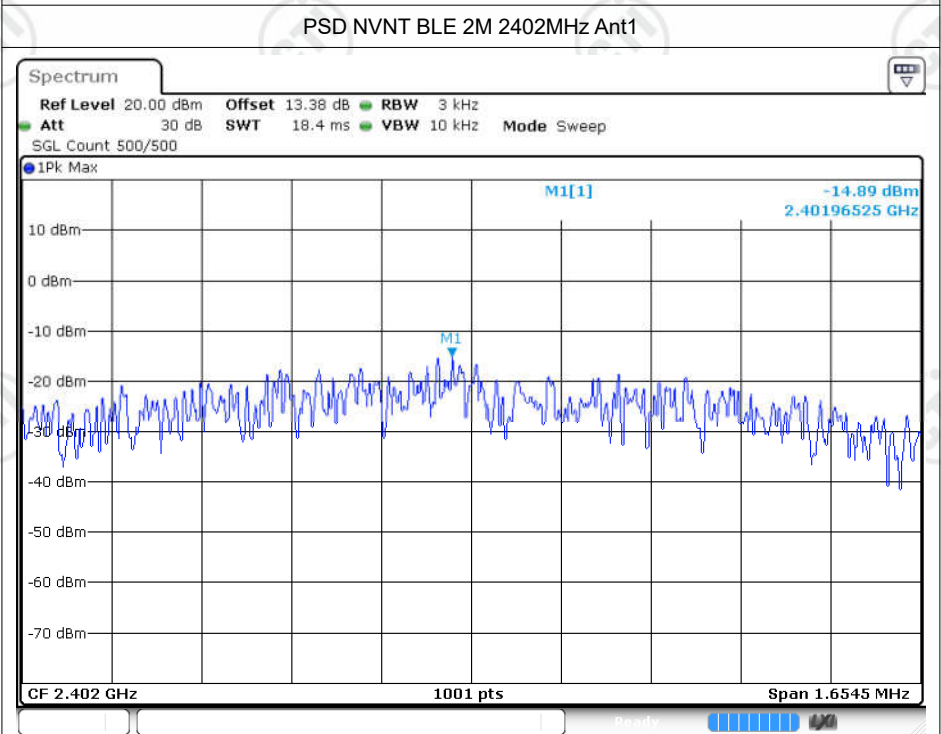
Date: 28.AUG.2024 21:21:02



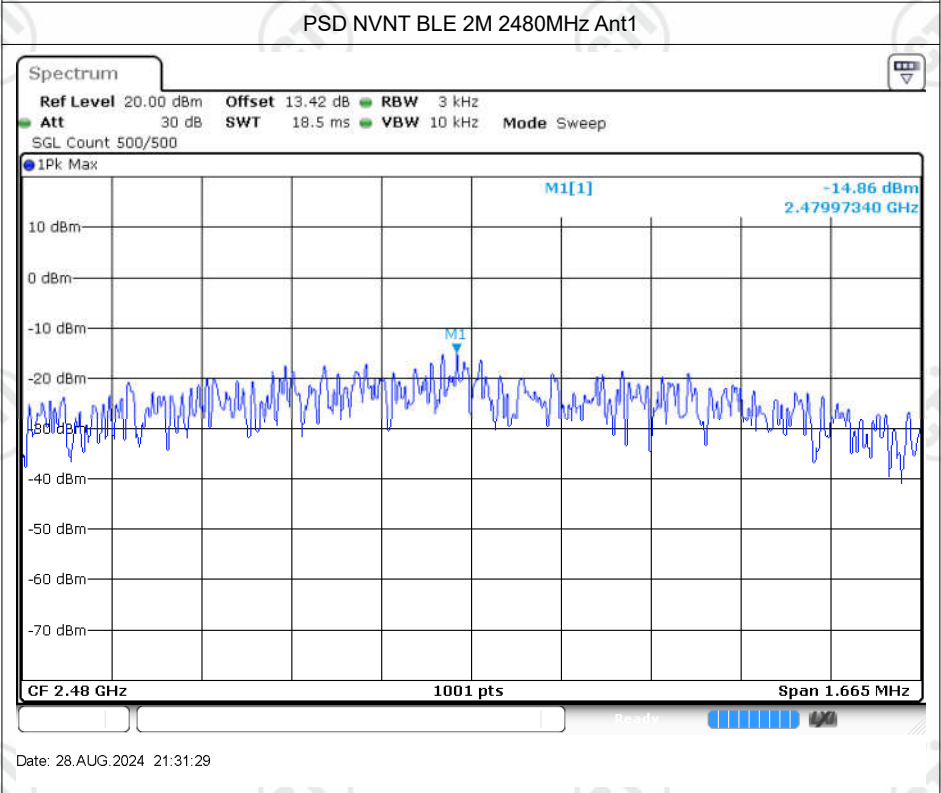
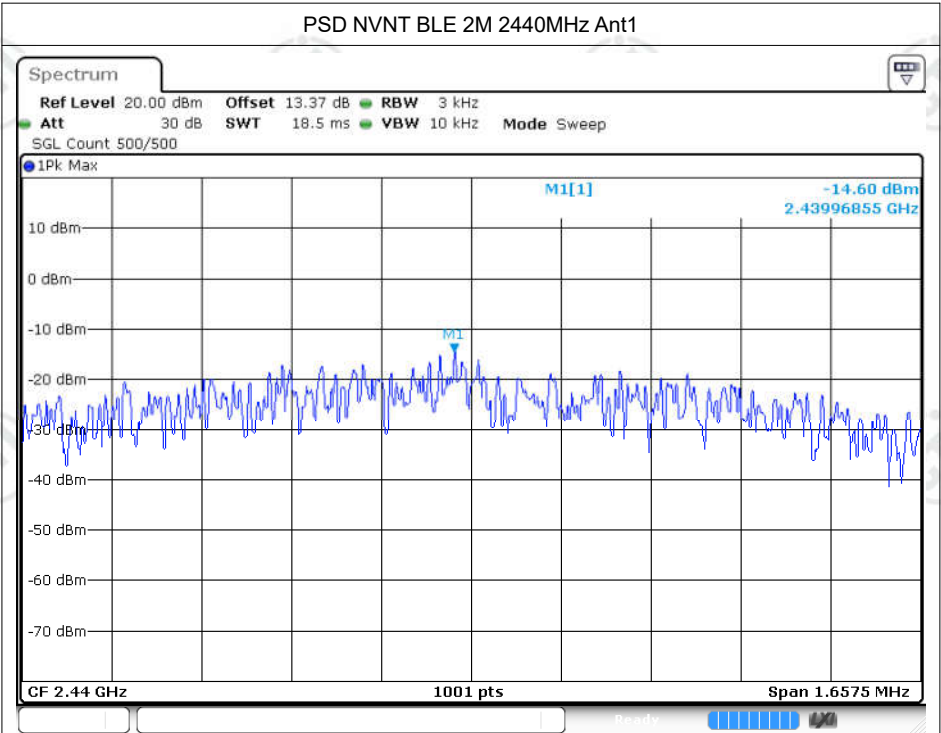
Date: 28.AUG.2024 21:22:47



Date: 28.AUG.2024 21:24:36

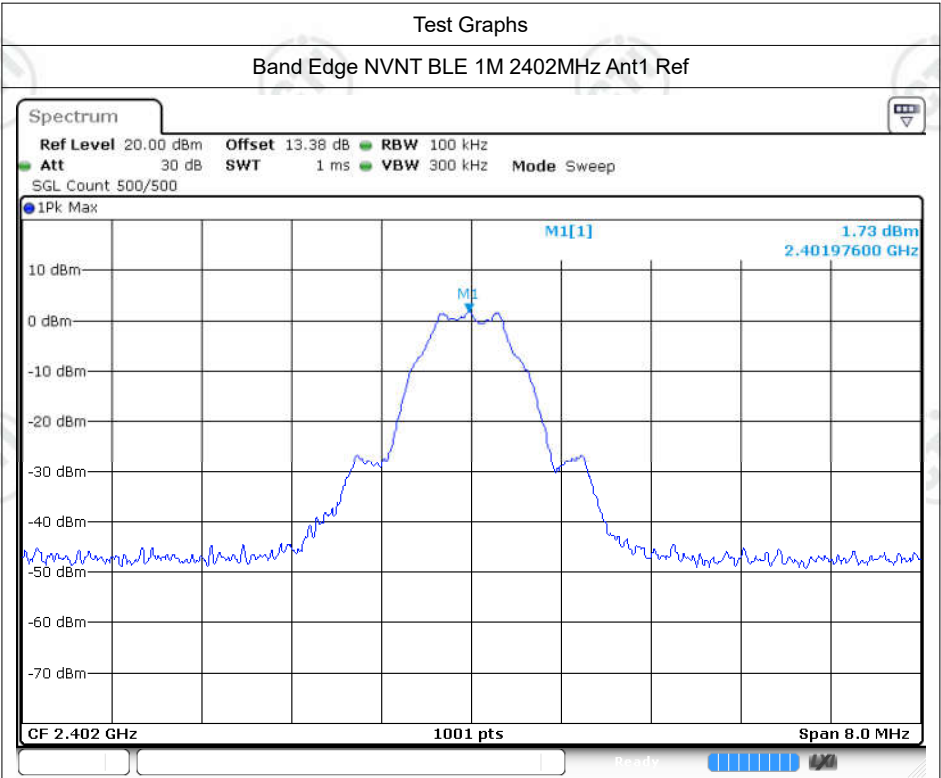


Date: 28.AUG.2024 21:27:16

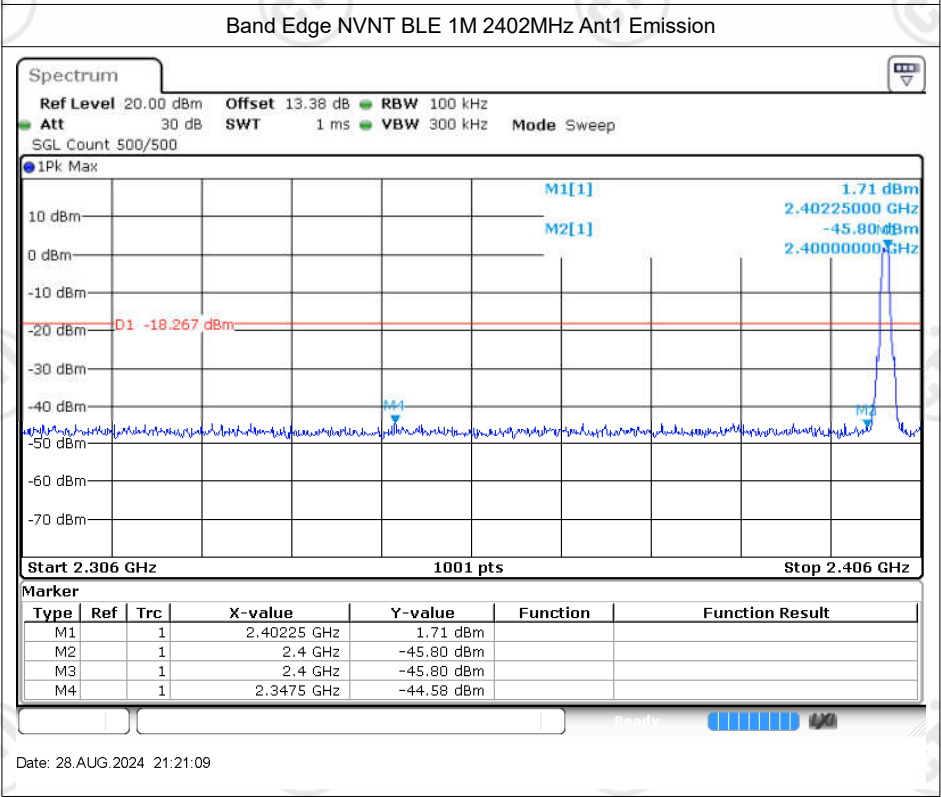


Band Edge

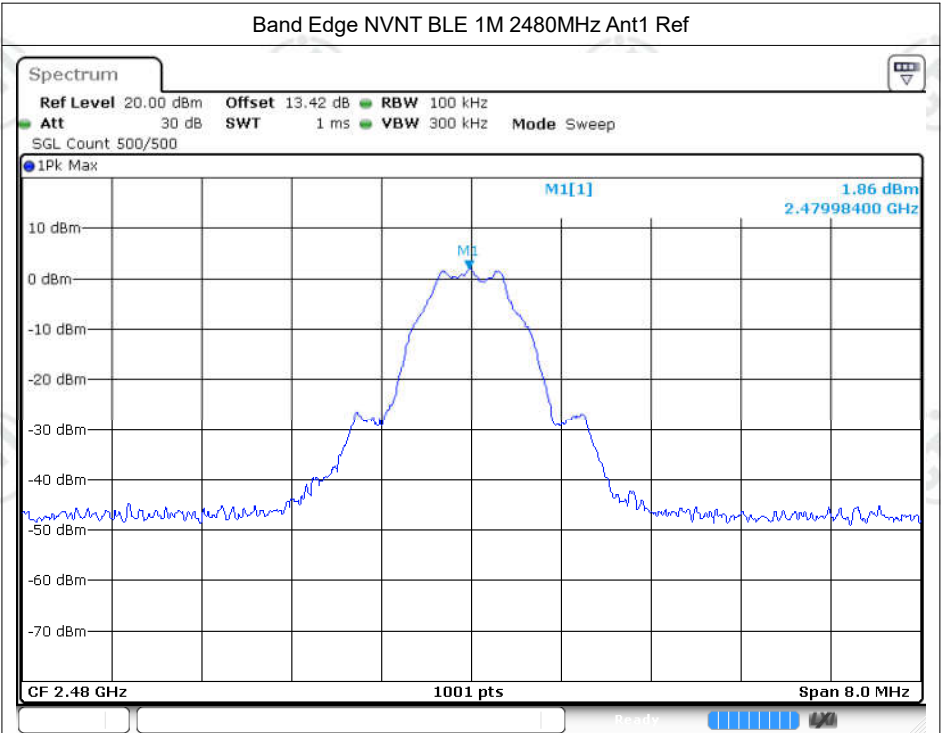
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-46.31	-20	Pass
NVNT	BLE 1M	2480	Ant1	-45.13	-20	Pass
NVNT	BLE 2M	2402	Ant1	-31.66	-20	Pass
NVNT	BLE 2M	2480	Ant1	-45.28	-20	Pass



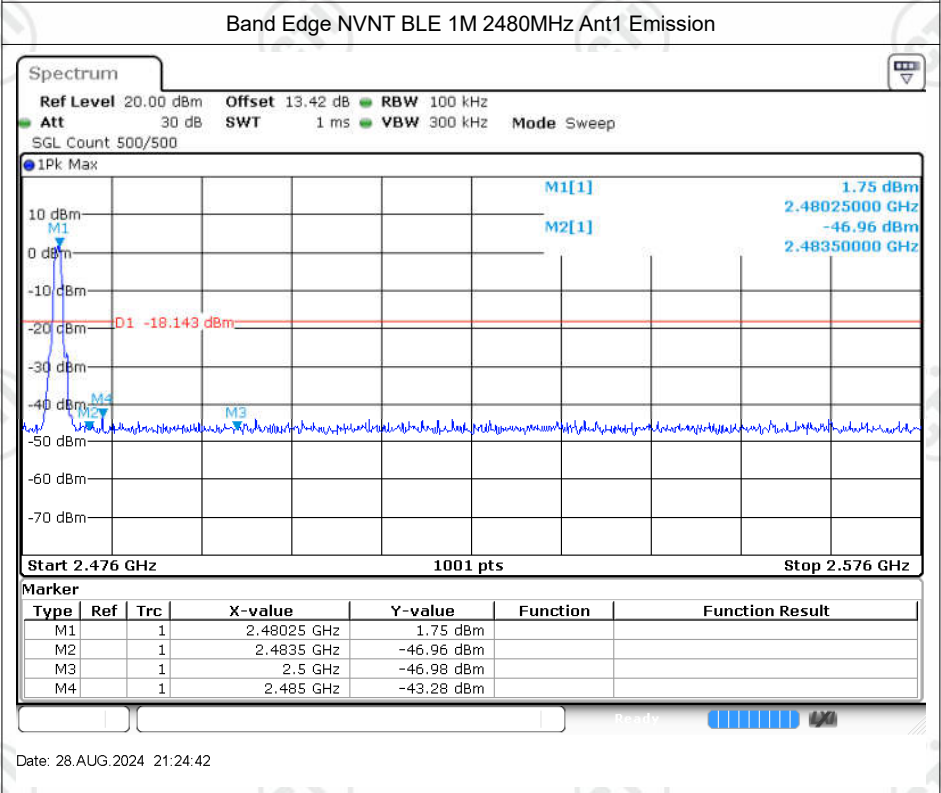
Date: 28.AUG.2024 21:21:05



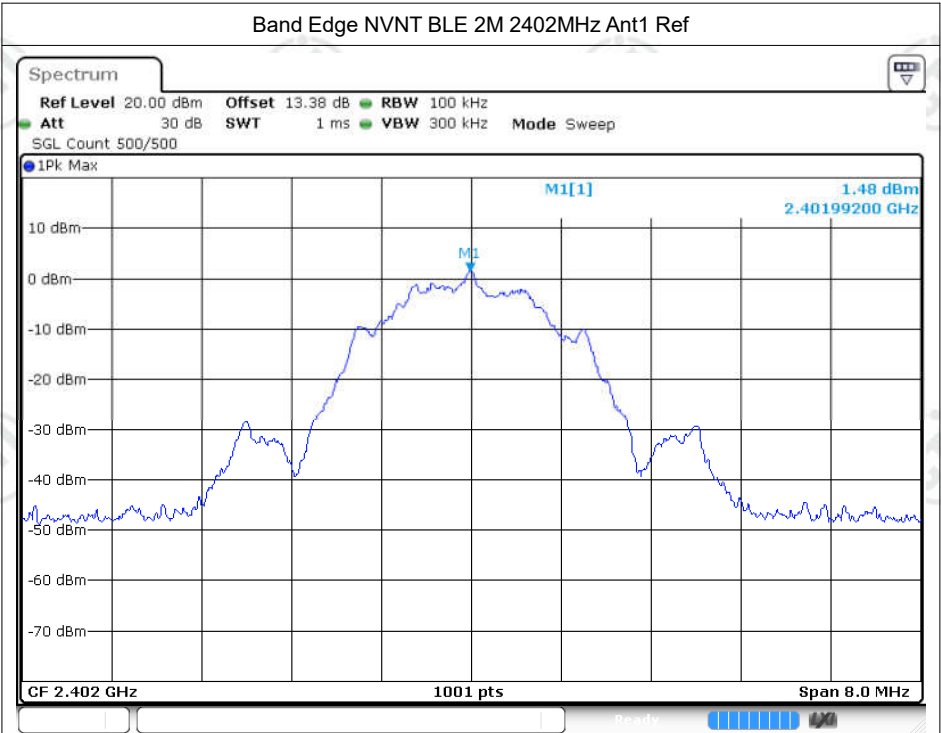
Date: 28.AUG.2024 21:21:09



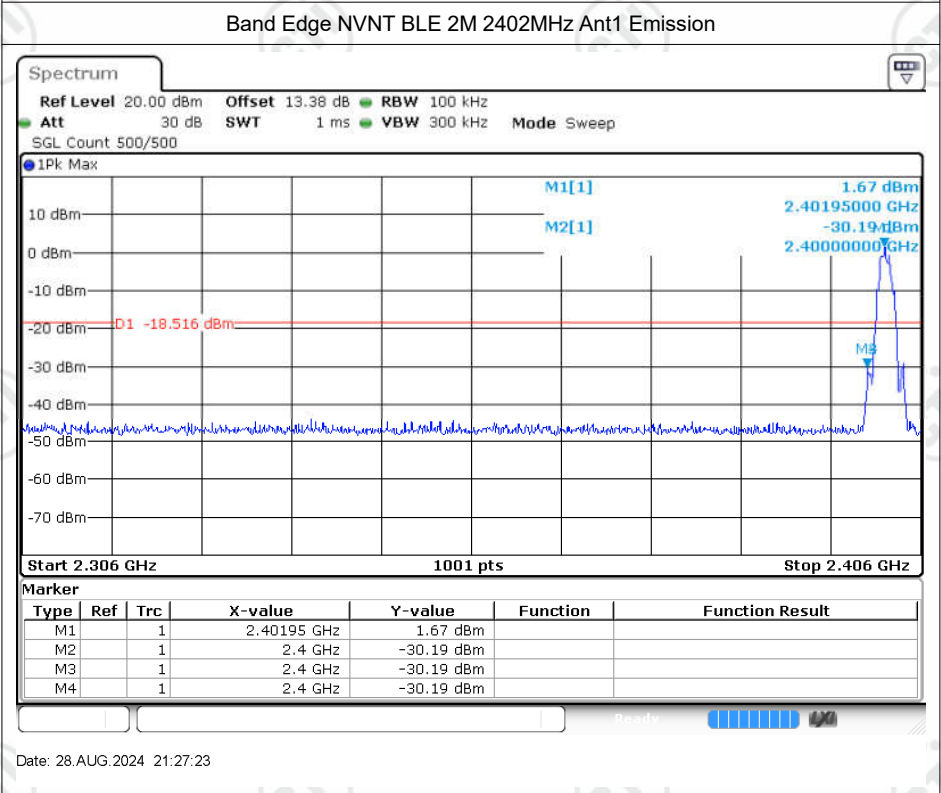
Date: 28.AUG.2024 21:24:39

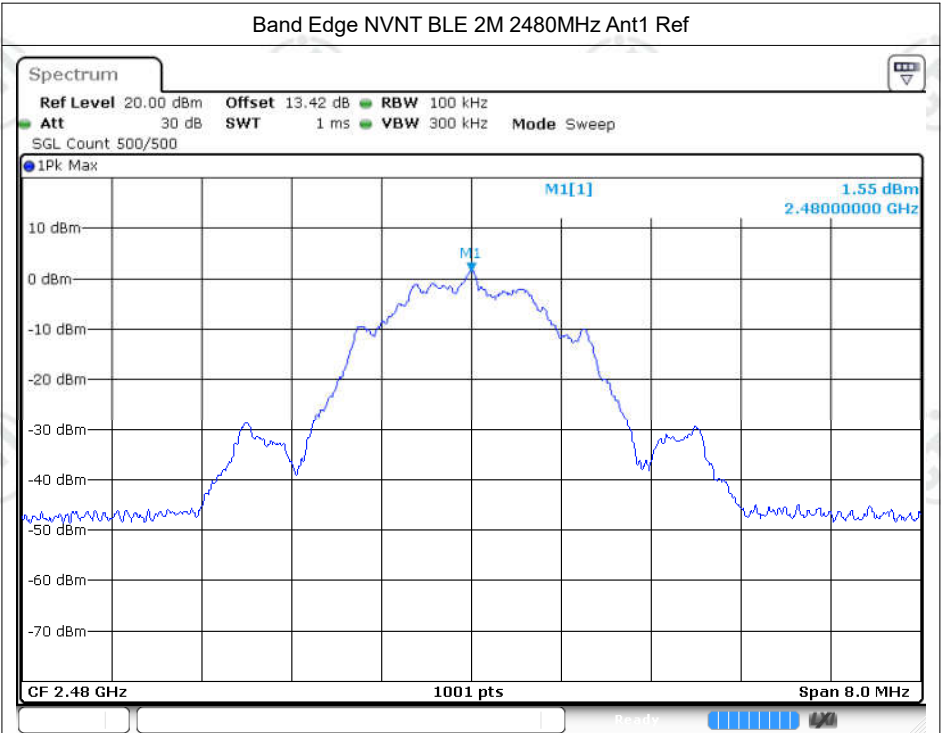


Date: 28.AUG.2024 21:24:42

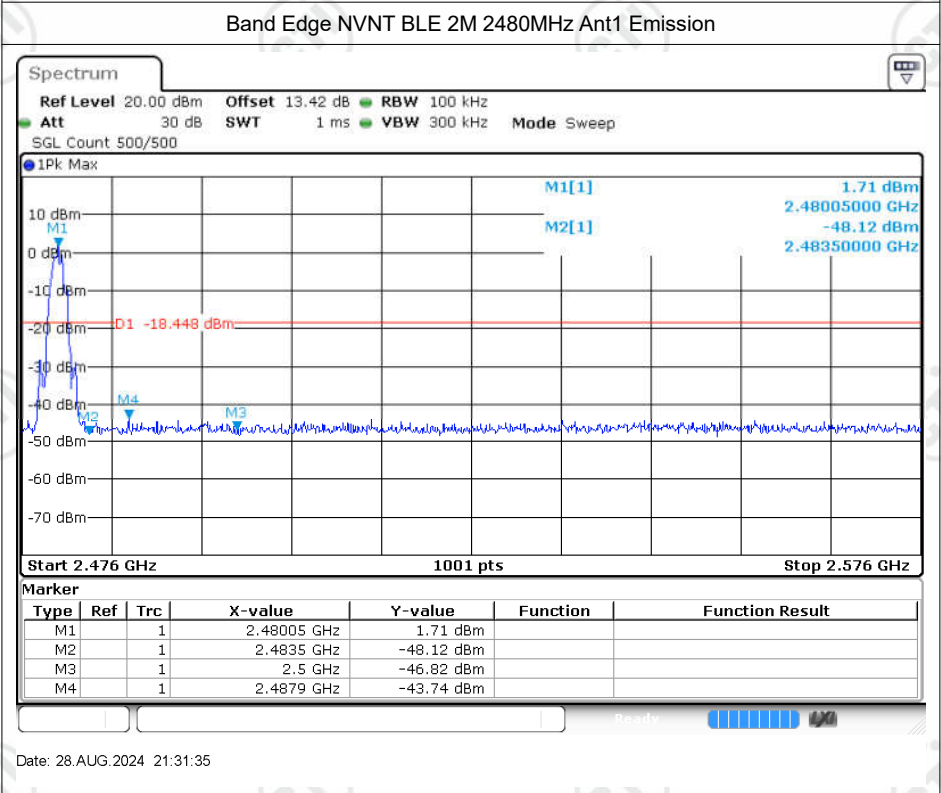


Date: 28.AUG.2024 21:27:19



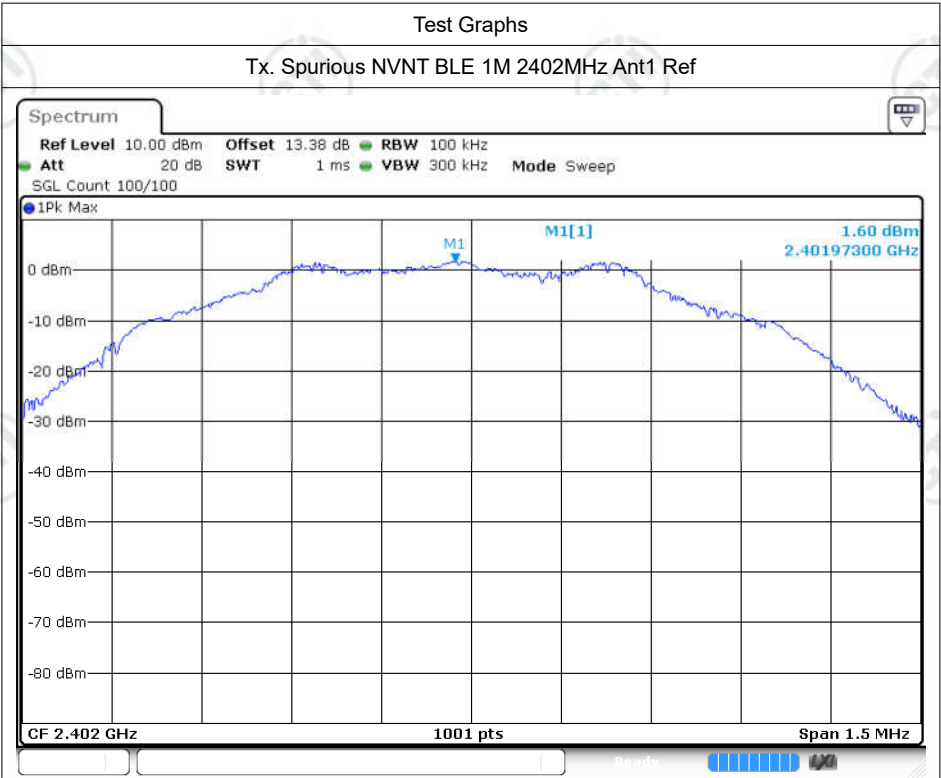


Date: 28.AUG.2024 21:31:32

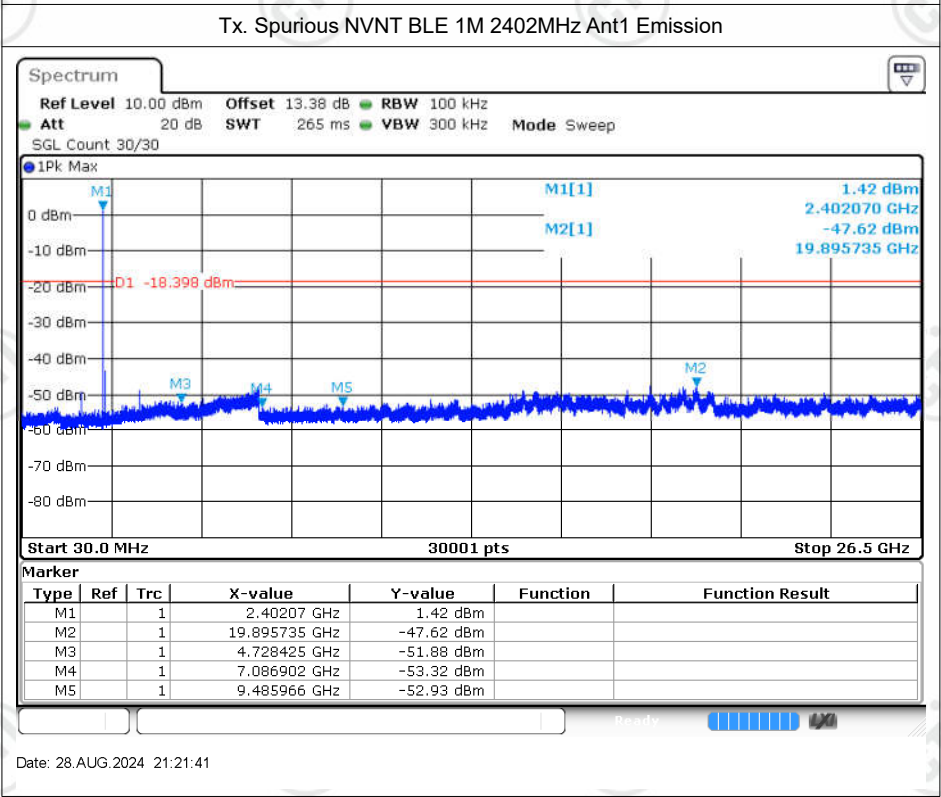


Conducted RF Spurious Emission

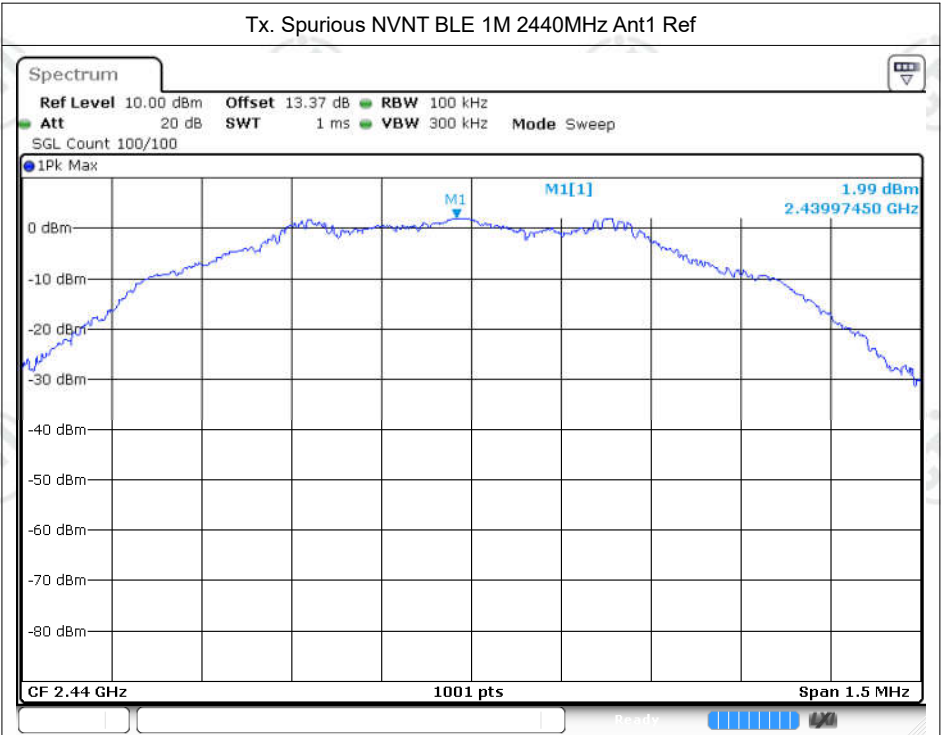
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-49.21	-20	Pass
NVNT	BLE 1M	2440	Ant1	-48.79	-20	Pass
NVNT	BLE 1M	2480	Ant1	-48.48	-20	Pass
NVNT	BLE 2M	2402	Ant1	-47.81	-20	Pass
NVNT	BLE 2M	2440	Ant1	-48.65	-20	Pass
NVNT	BLE 2M	2480	Ant1	-49.46	-20	Pass



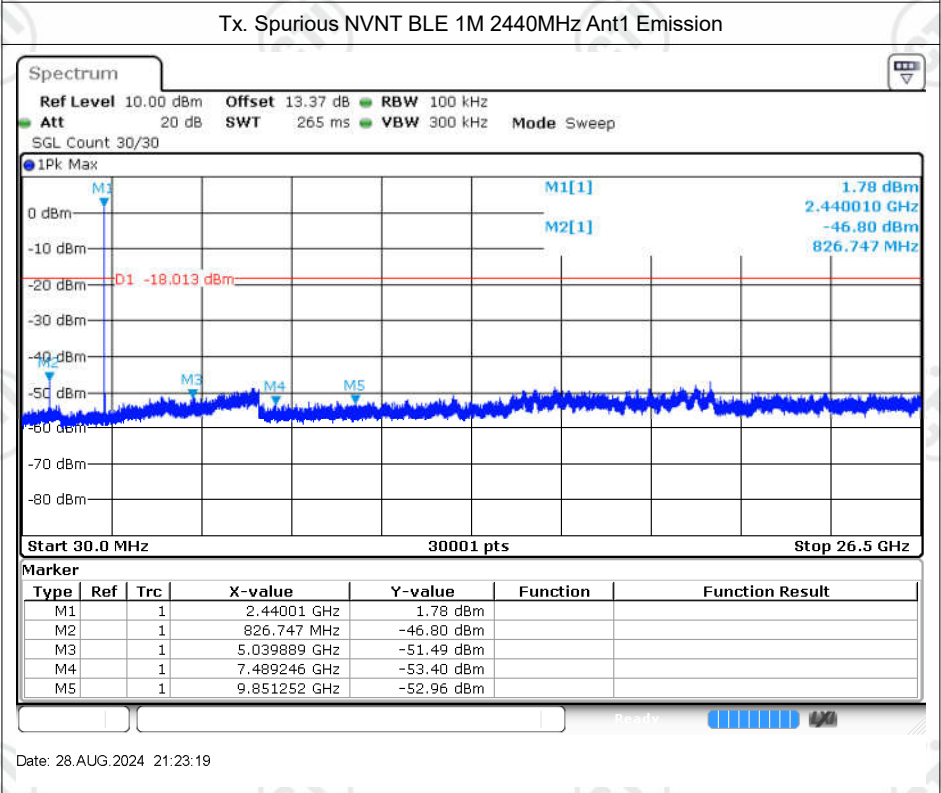
Date: 28.AUG.2024 21:21:12



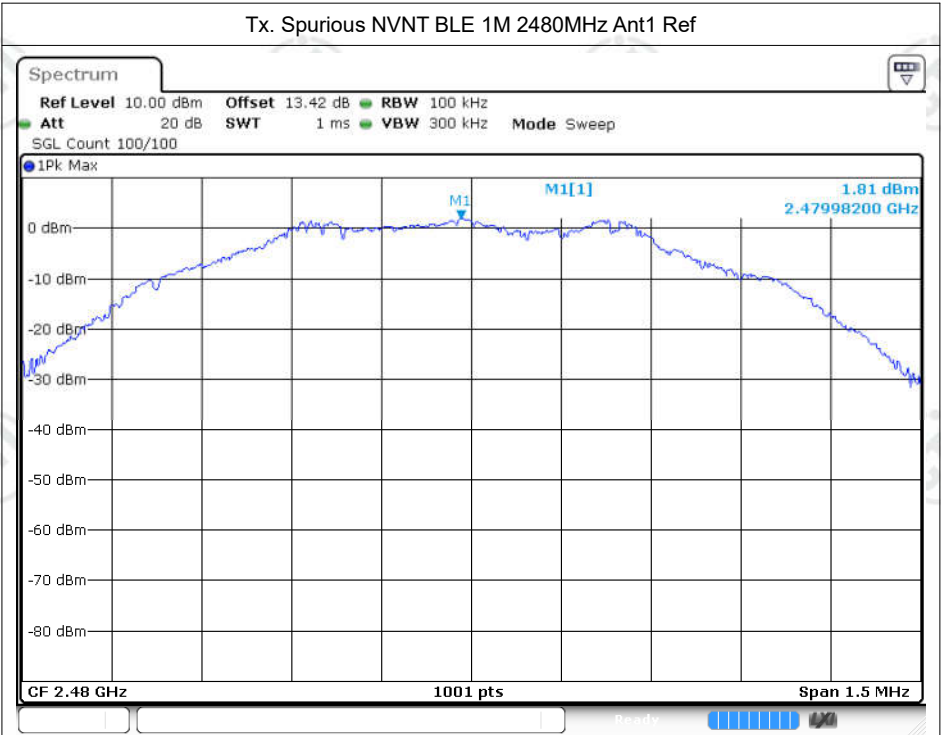
Date: 28.AUG.2024 21:21:41



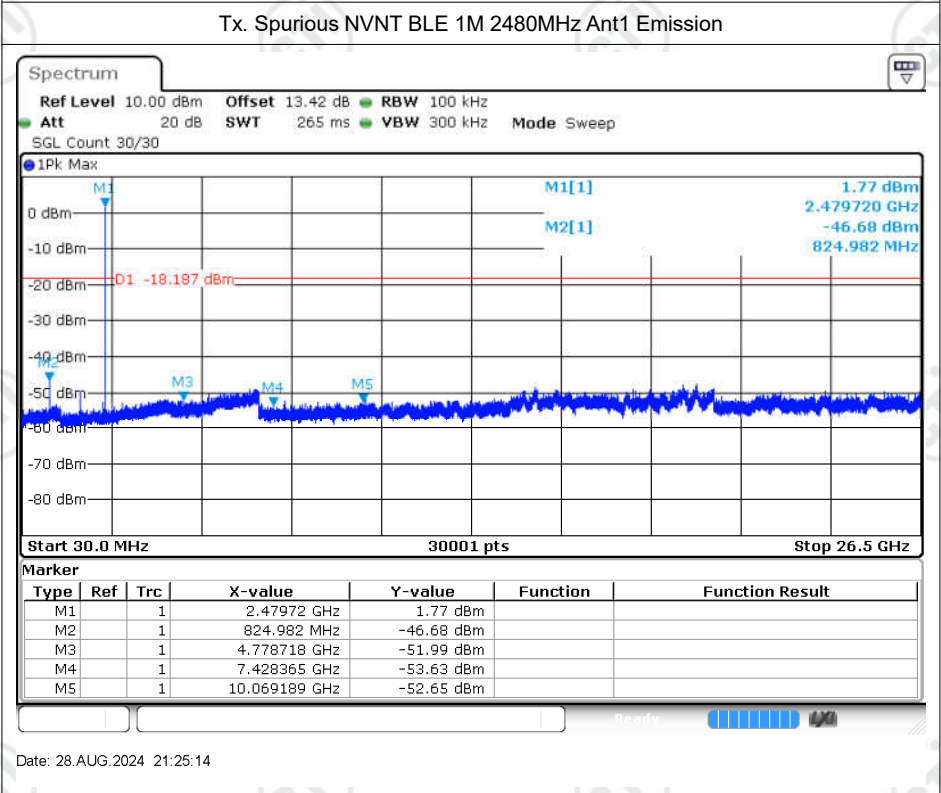
Date: 28.AUG.2024 21:22:50



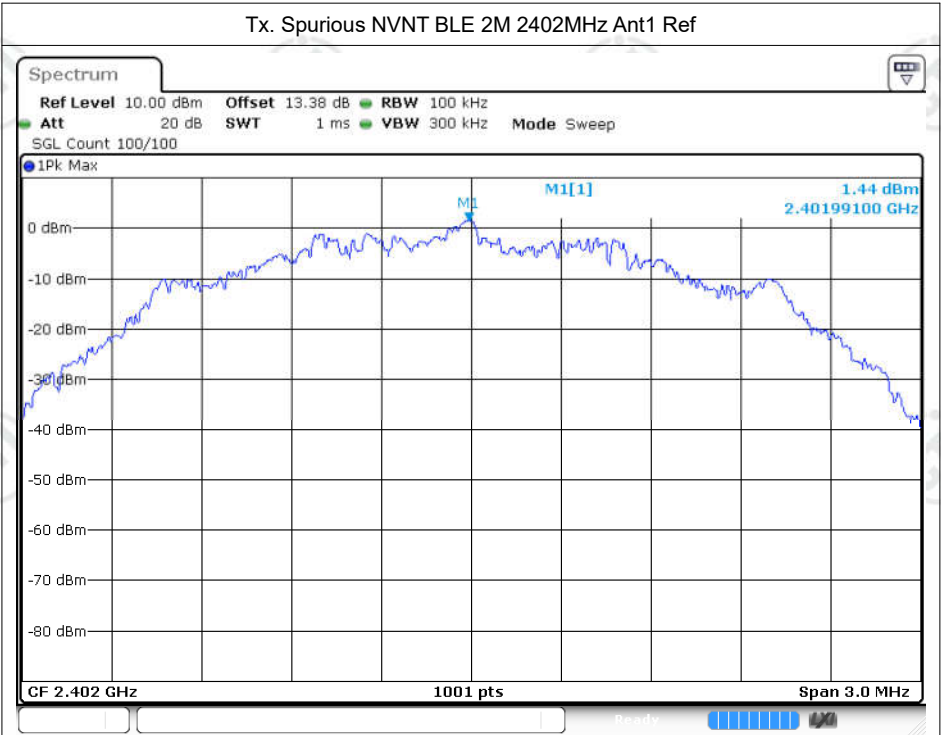
Date: 28.AUG.2024 21:23:19



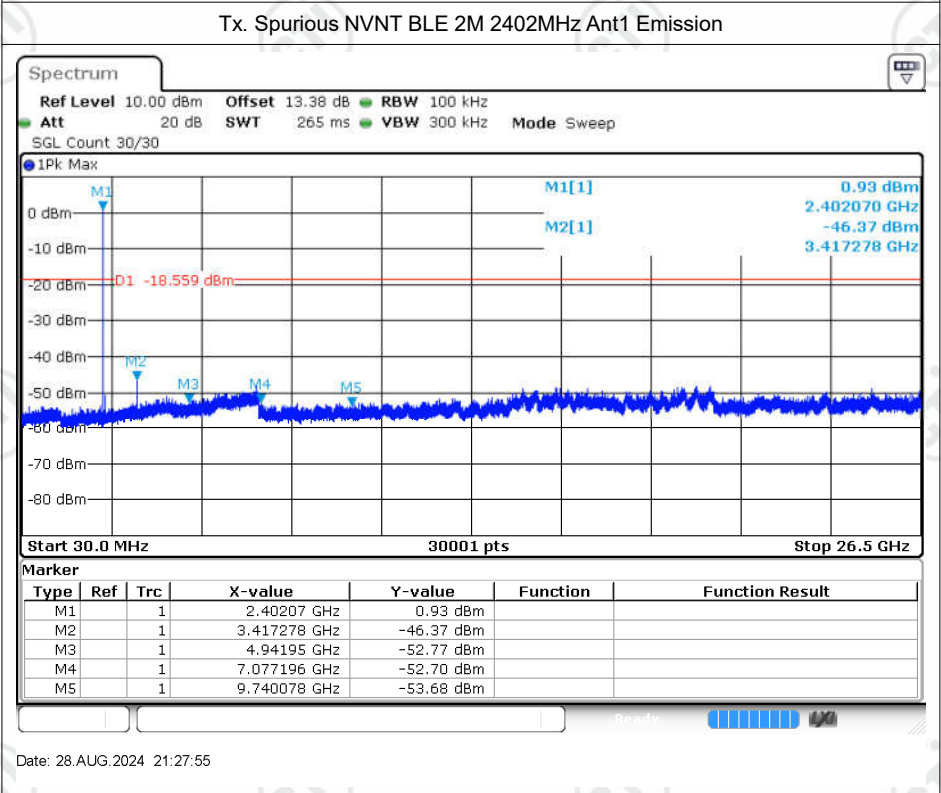
Date: 28.AUG.2024 21:24:45



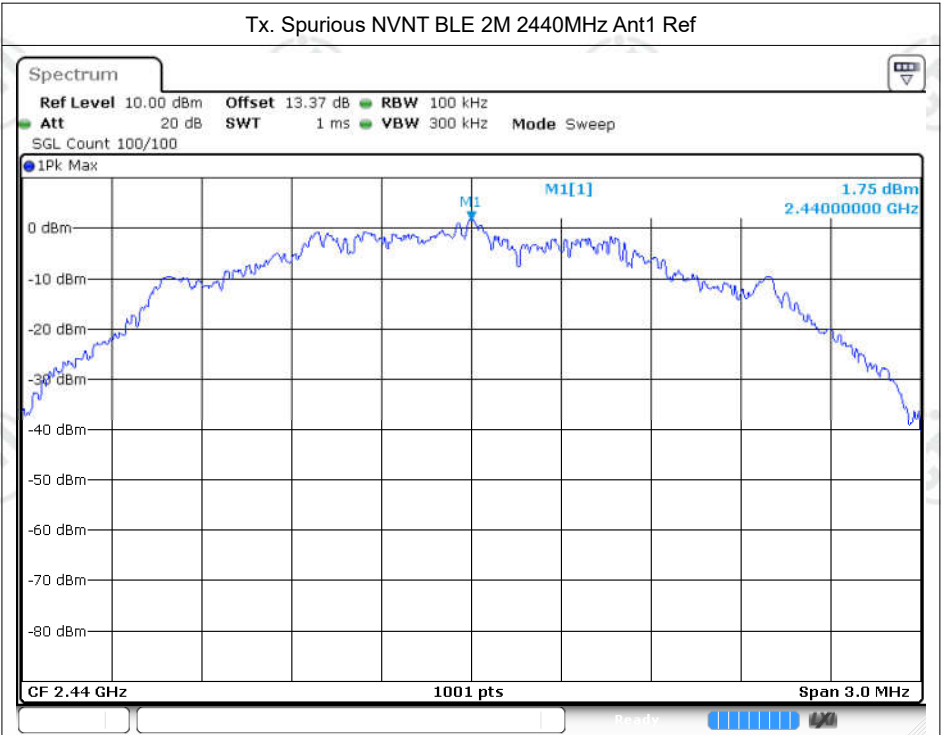
Date: 28.AUG.2024 21:25:14



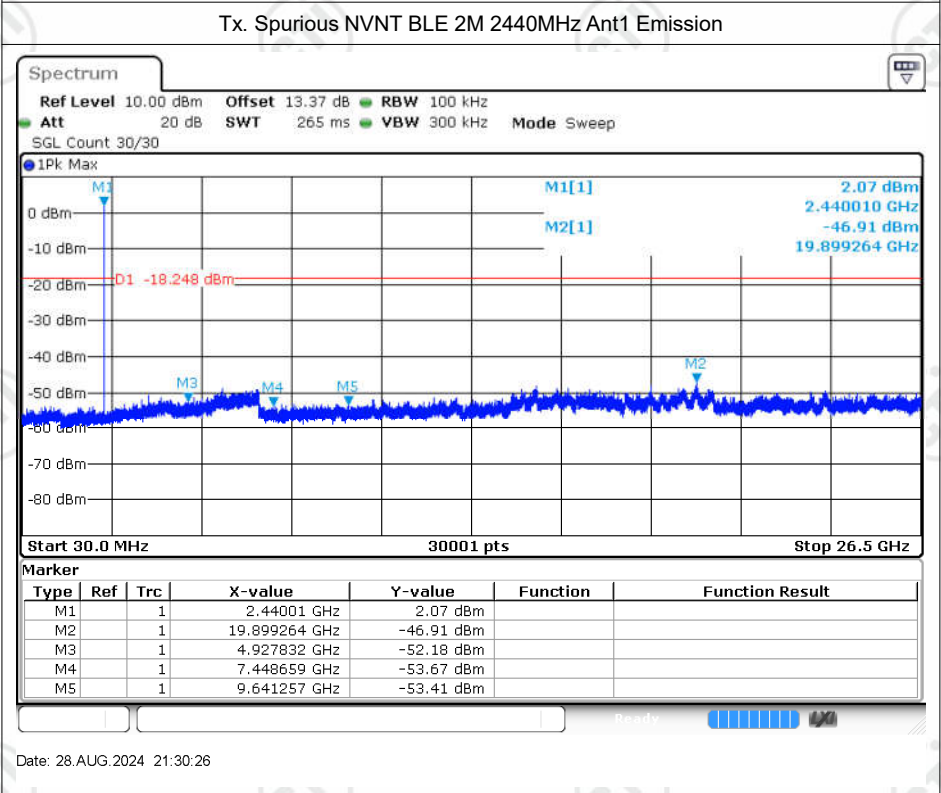
Date: 28.AUG.2024 21:27:25



Date: 28.AUG.2024 21:27:55



Date: 28.AUG.2024 21:29:57



Date: 28.AUG.2024 21:30:26

