

Appendix: Bluetooth LE

Contents

Duty Cycle 3

Maximum Peak Conducted Output Power 7

-6dB Bandwidth 11

Occupied Channel Bandwidth 15

Maximum Power Spectral Density Level 19

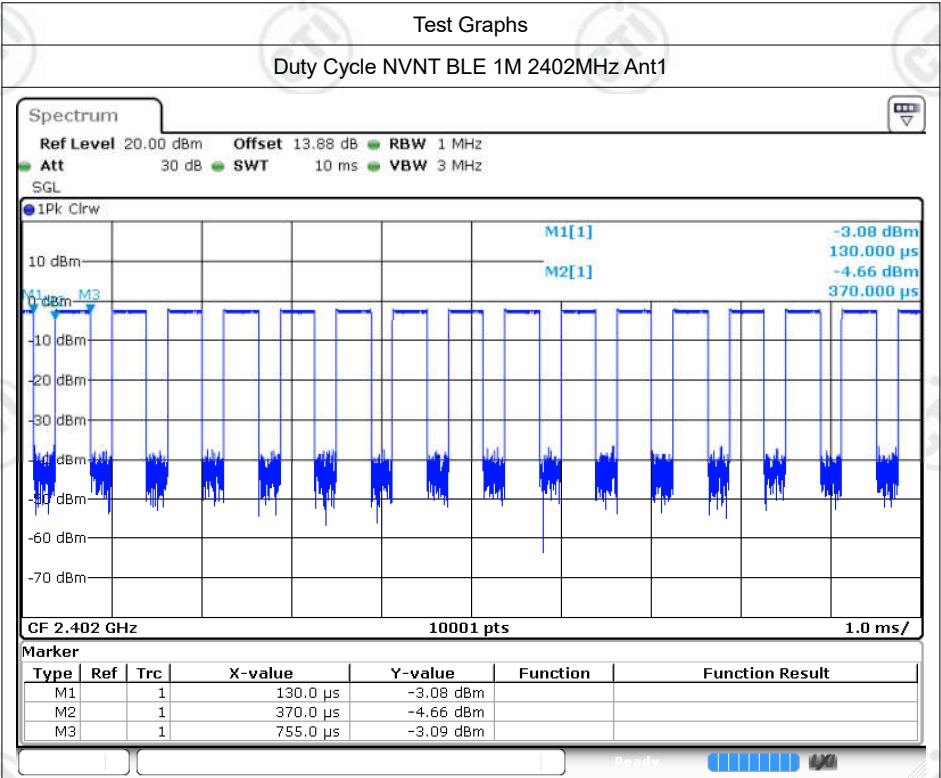
Band Edge 23

Conducted RF Spurious Emission 28

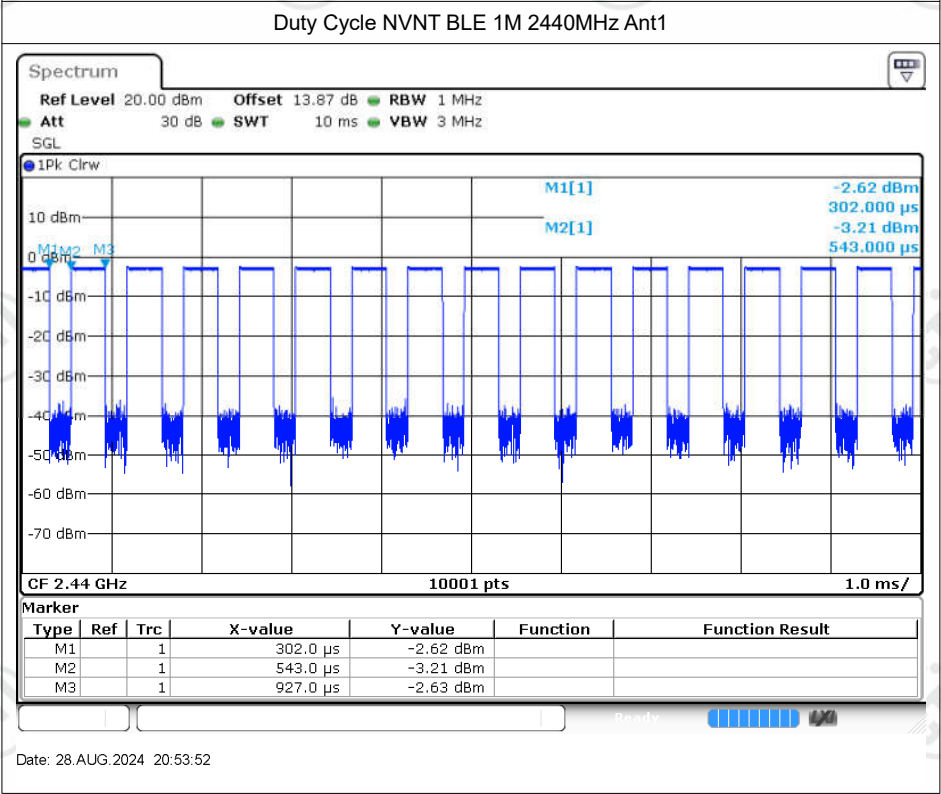
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.6	2.1	2.6
NVNT	BLE 1M	2440	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2480	Ant1	61.6	2.1	2.6
NVNT	BLE 2M	2402	Ant1	32	4.95	5
NVNT	BLE 2M	2440	Ant1	32	4.95	5
NVNT	BLE 2M	2480	Ant1	31.84	4.97	5.03

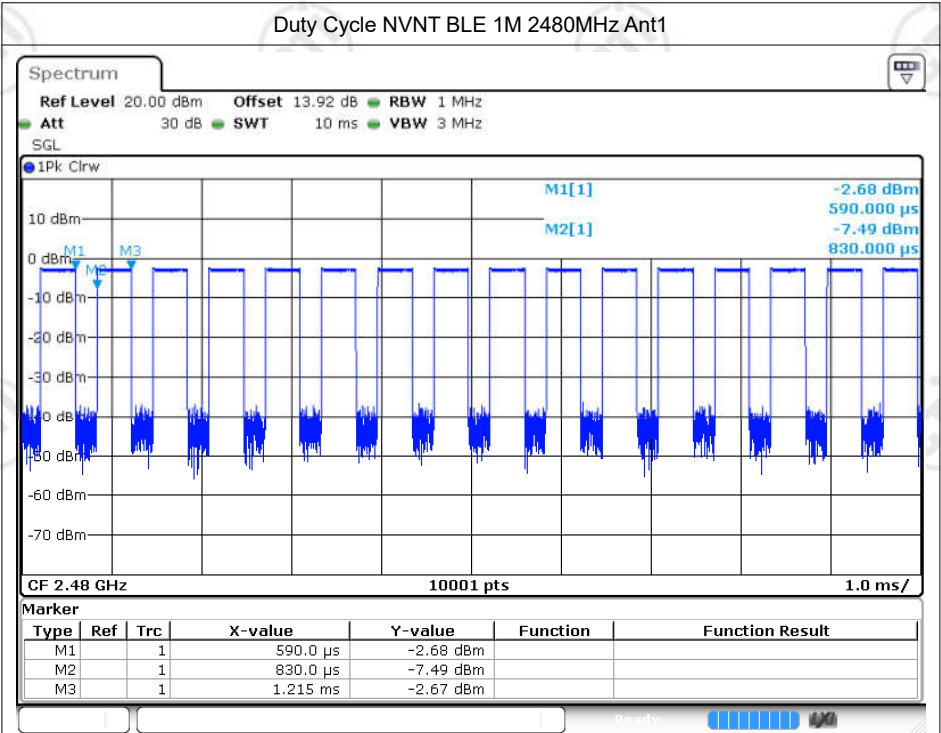
Note: Duty Cycle Correction Factor (dB)=-10*lg(Duty Cycle);



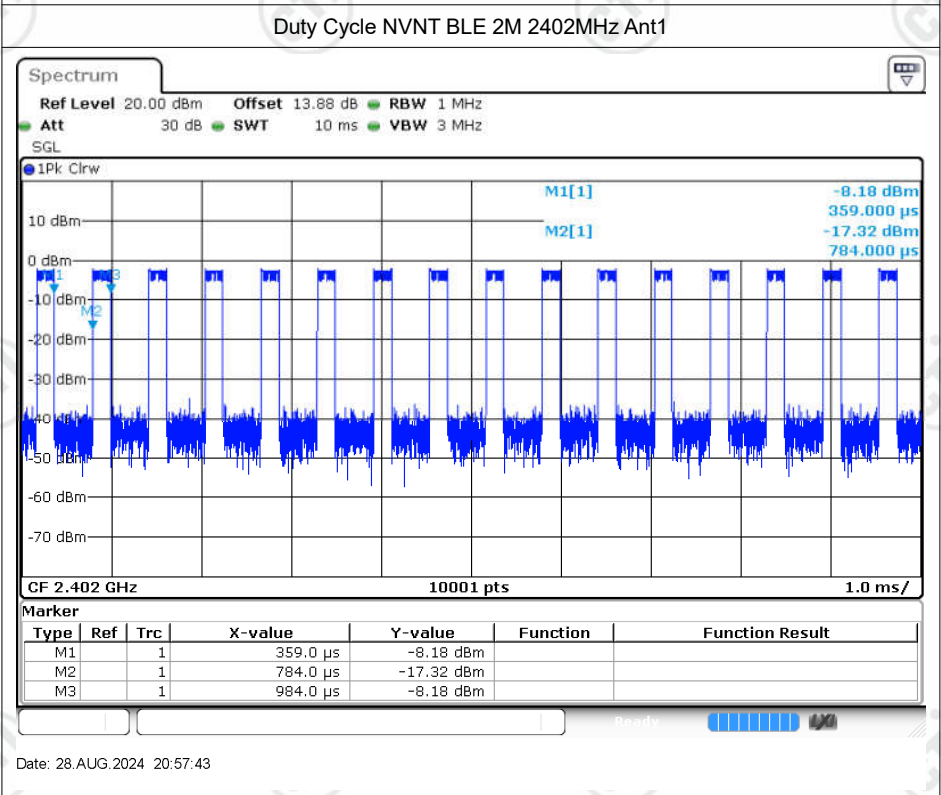
Date: 28.AUG.2024 20:52:02



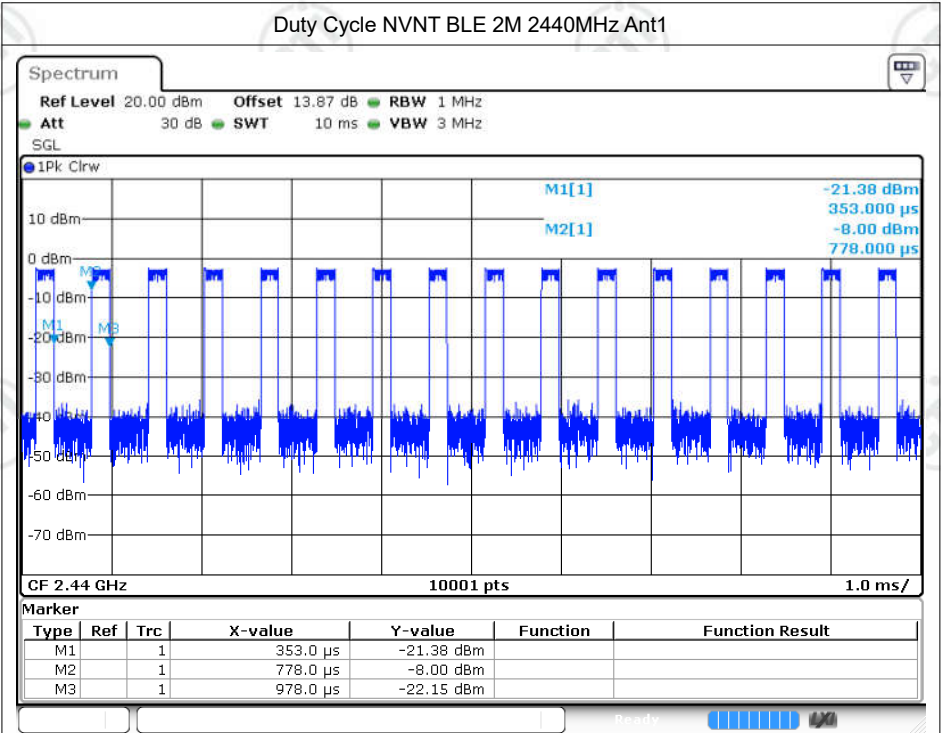
Date: 28.AUG.2024 20:53:52



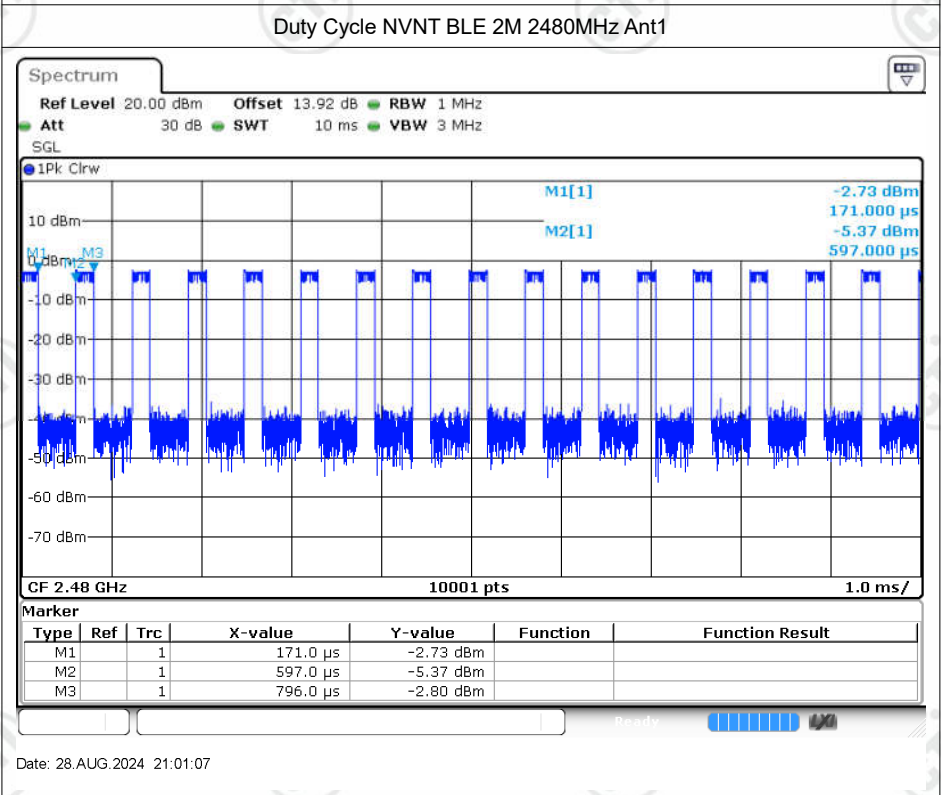
Date: 28.AUG.2024 20:55:30



Date: 28.AUG.2024 20:57:43



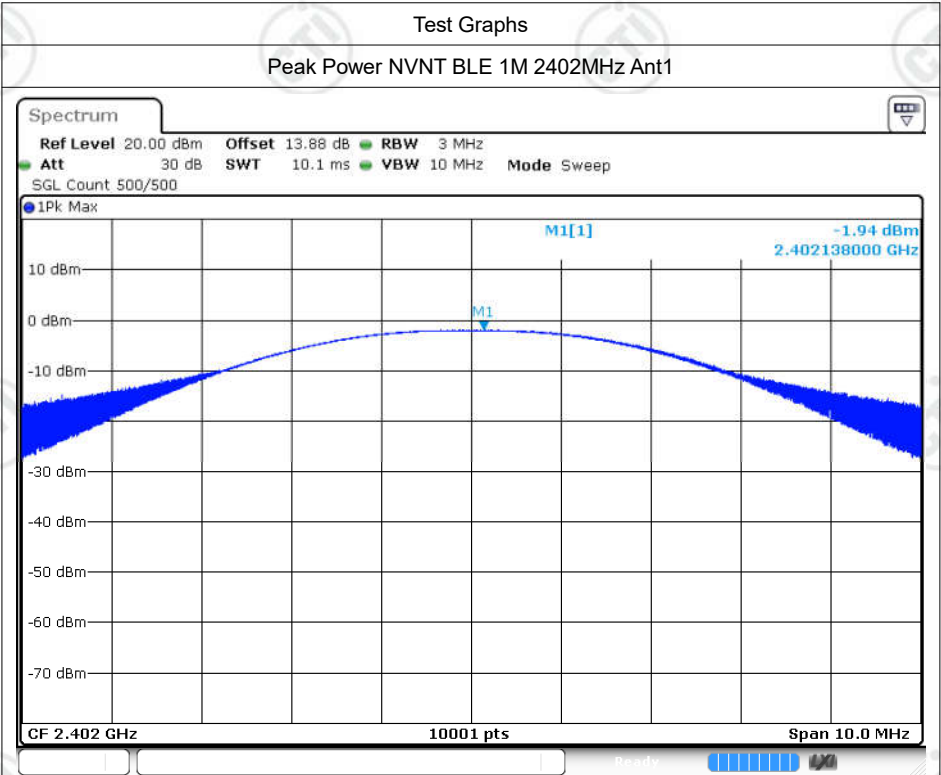
Date: 28.AUG.2024 20:59:30



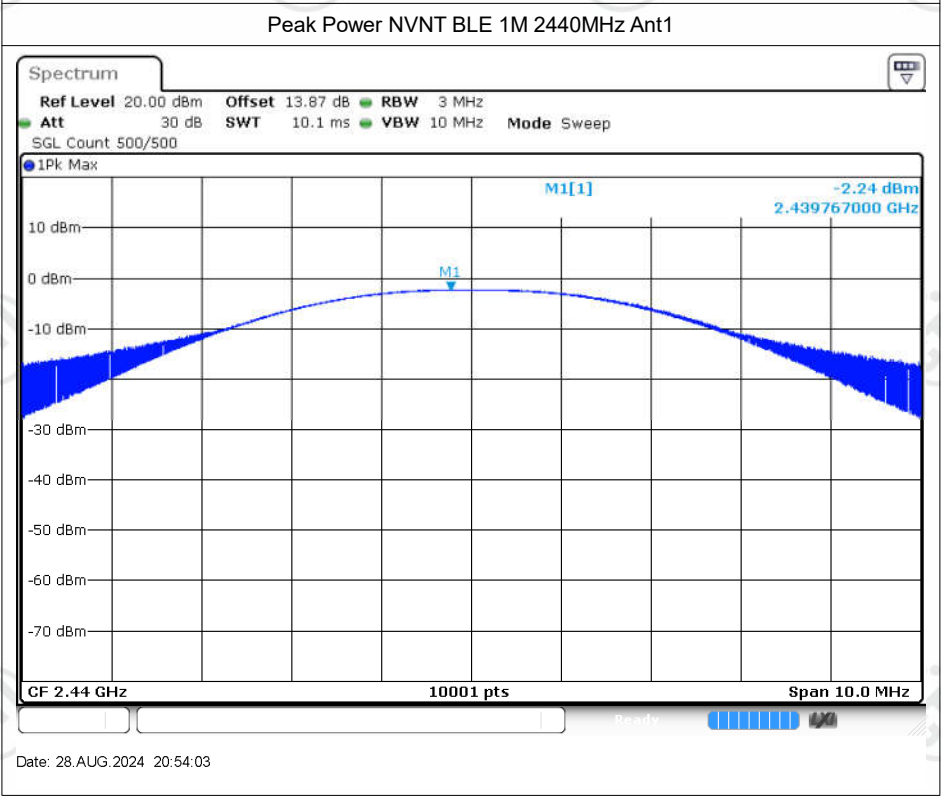
Date: 28.AUG.2024 21:01:07

Maximum Peak Conducted Output Power

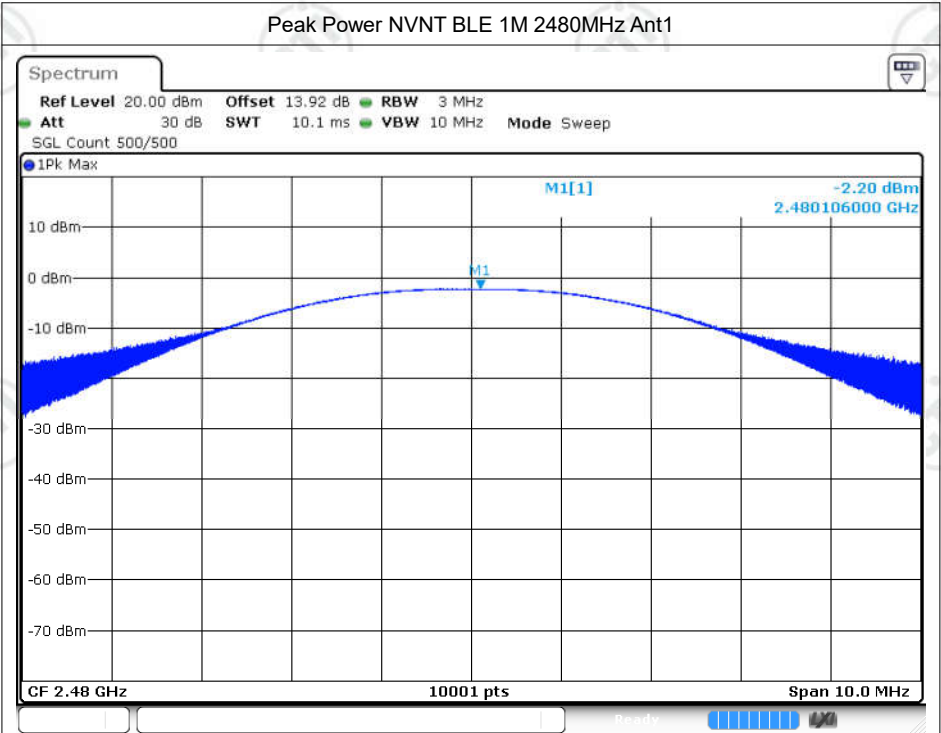
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.94	30	Pass
NVNT	BLE 1M	2440	Ant1	-2.24	30	Pass
NVNT	BLE 1M	2480	Ant1	-2.20	30	Pass
NVNT	BLE 2M	2402	Ant1	-1.93	30	Pass
NVNT	BLE 2M	2440	Ant1	-2.26	30	Pass
NVNT	BLE 2M	2480	Ant1	-2.18	30	Pass



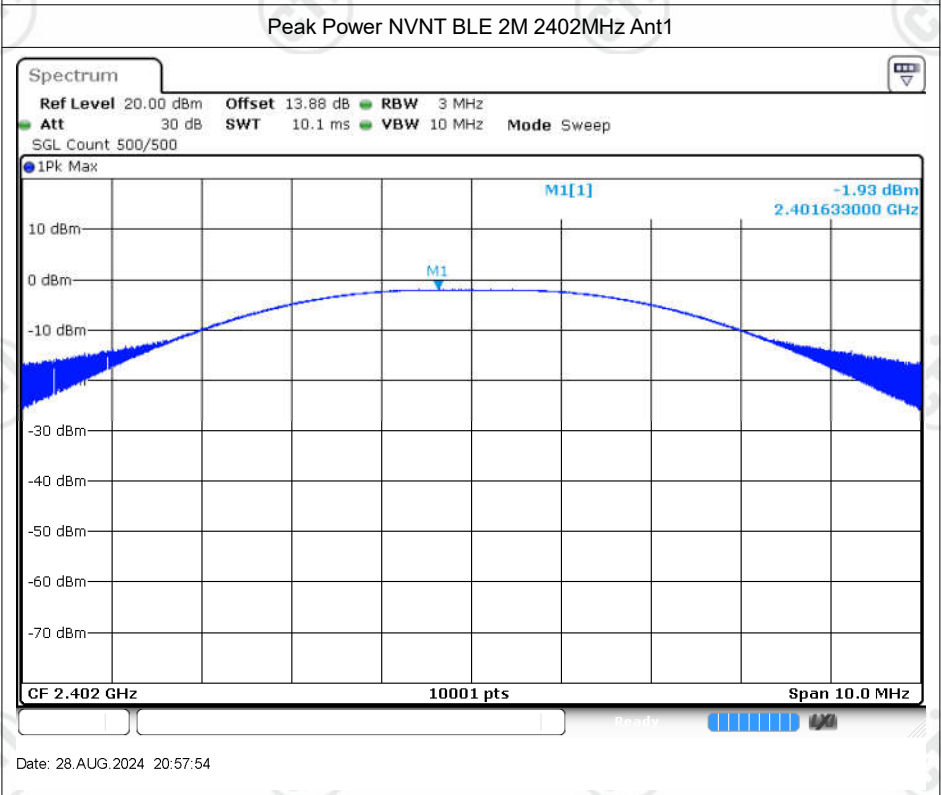
Date: 28.AUG.2024 20:52:12



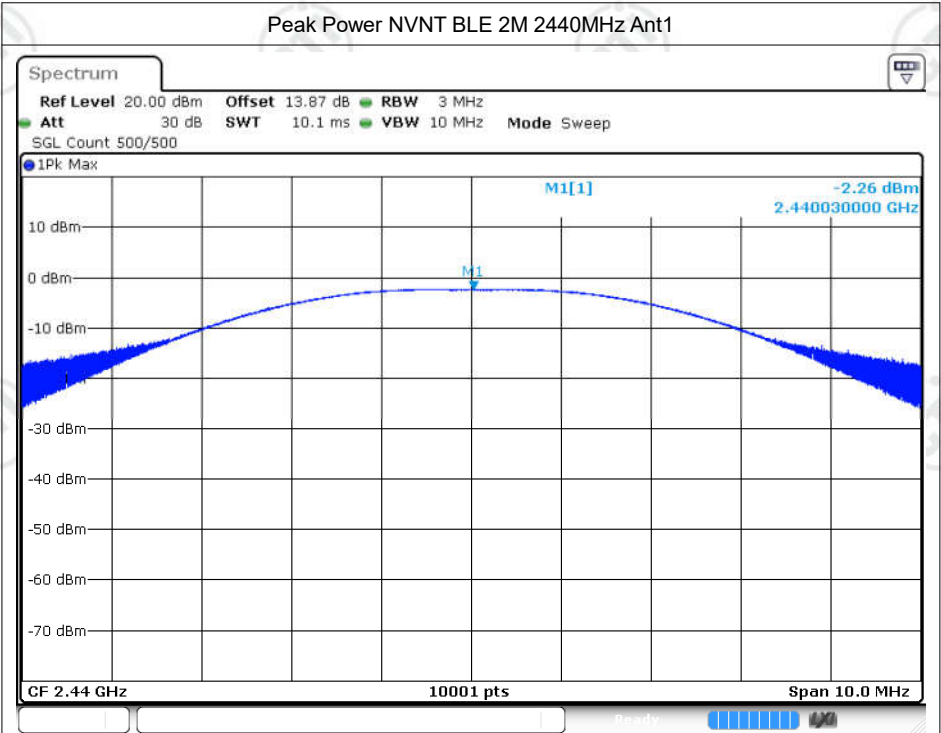
Date: 28.AUG.2024 20:54:03



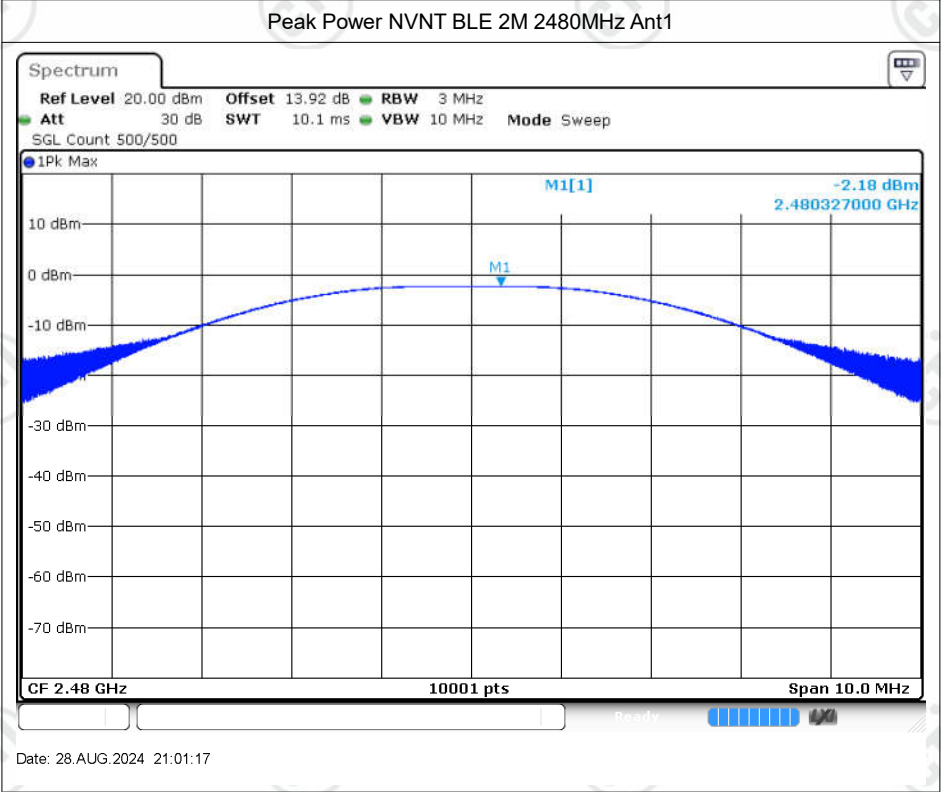
Date: 28.AUG.2024 20:55:40



Date: 28.AUG.2024 20:57:54



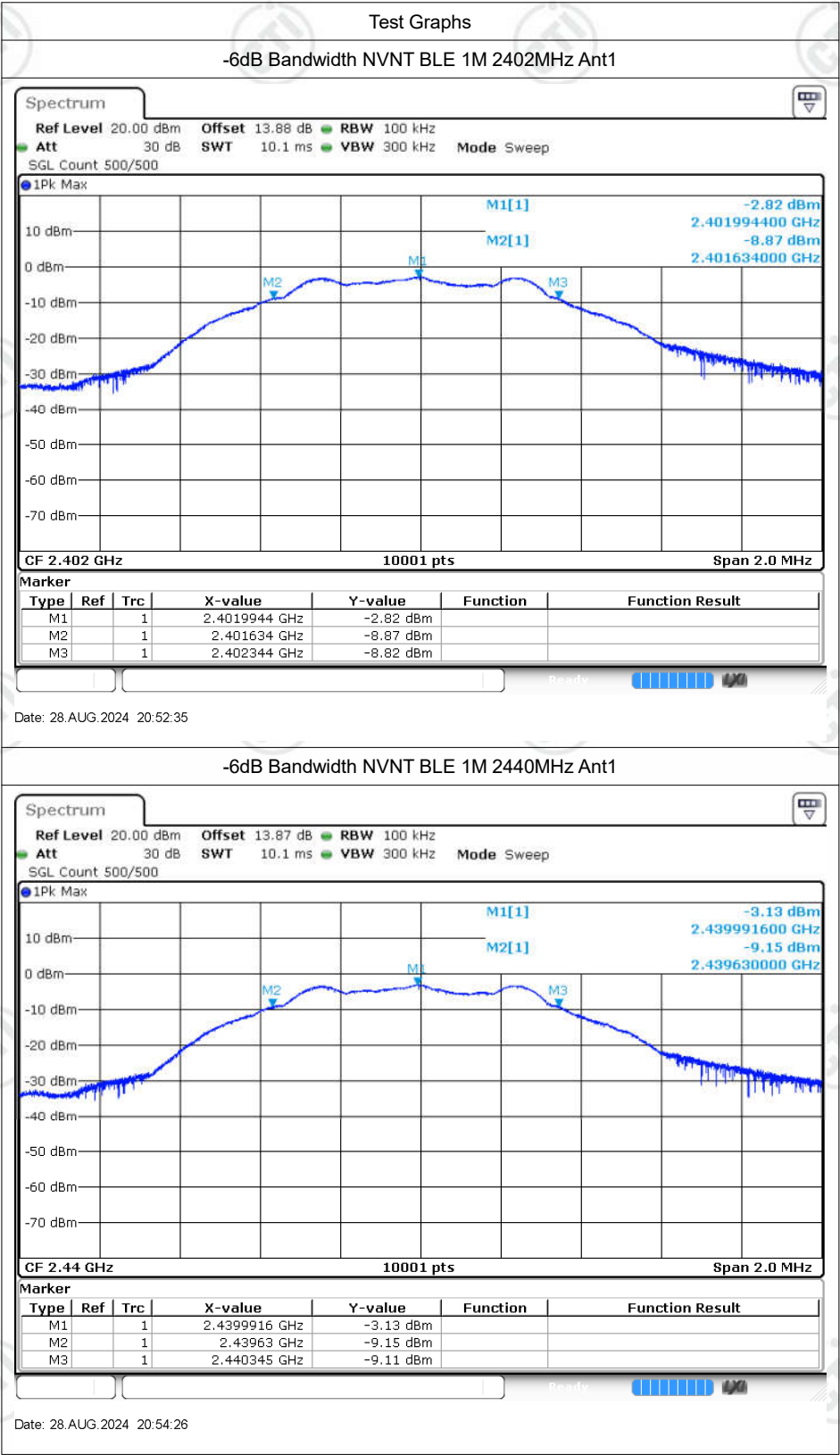
Date: 28.AUG.2024 20:59:40

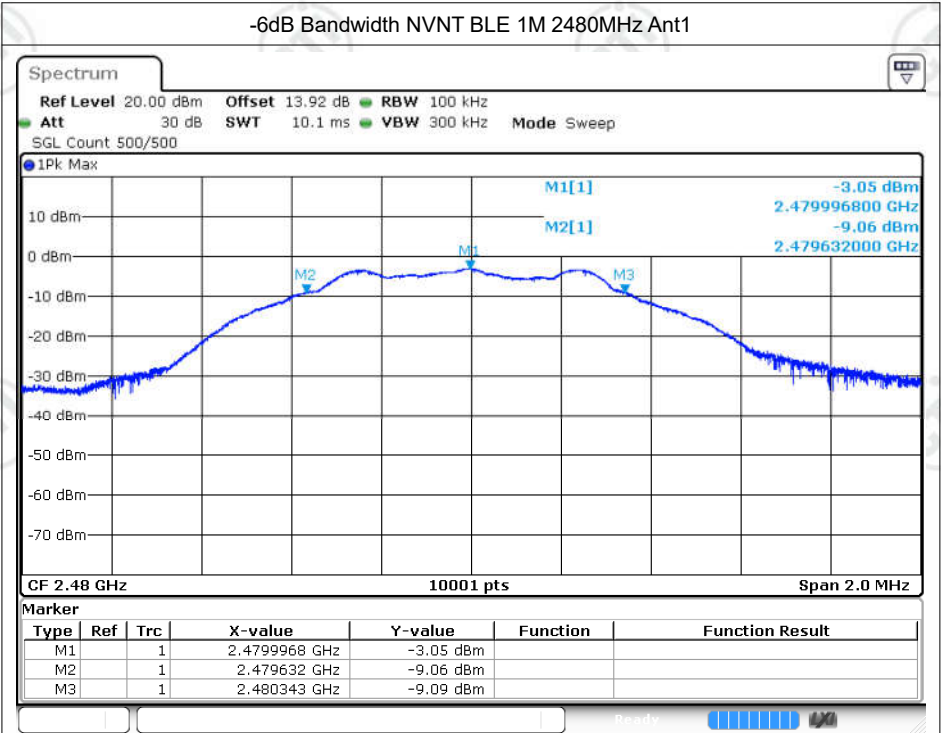


Date: 28.AUG.2024 21:01:17

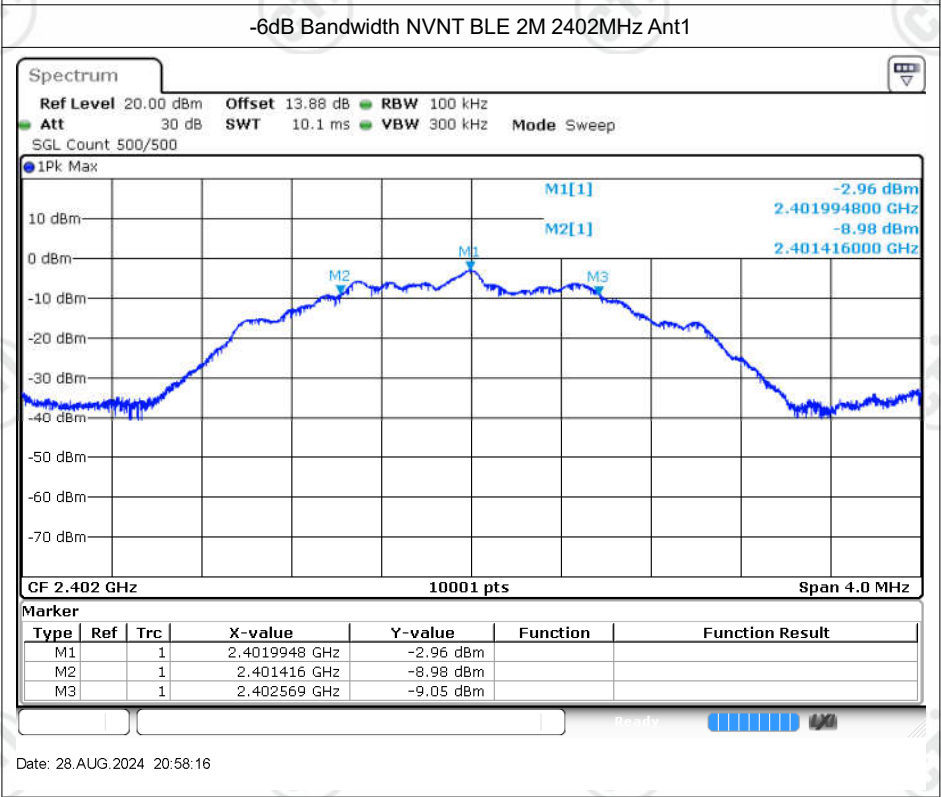
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.71	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.715	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.711	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.152	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.15	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.149	0.5	Pass

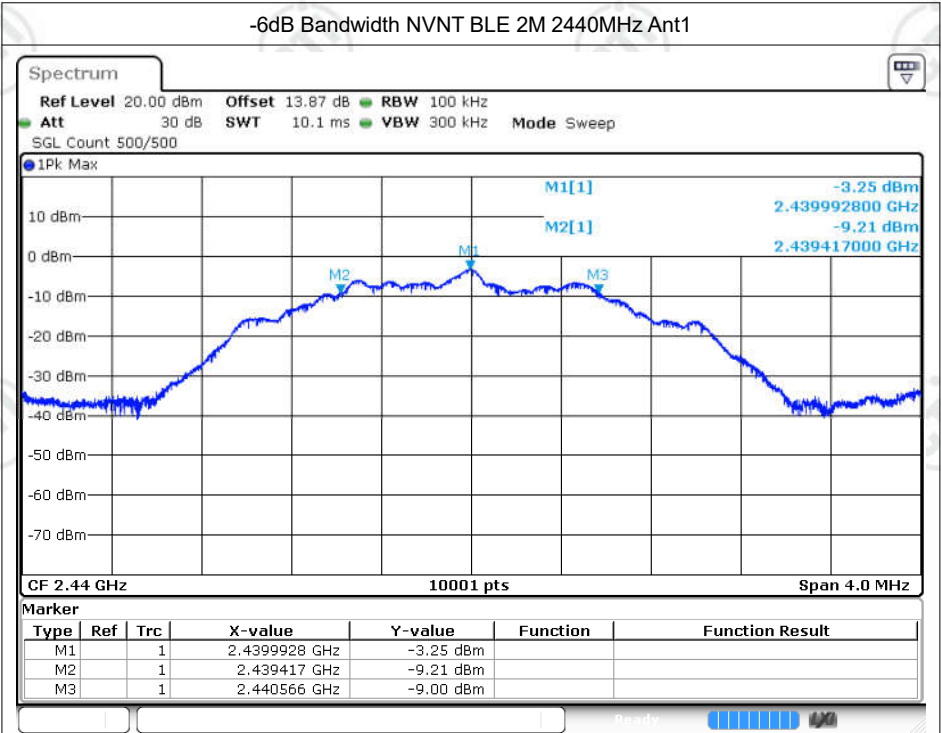




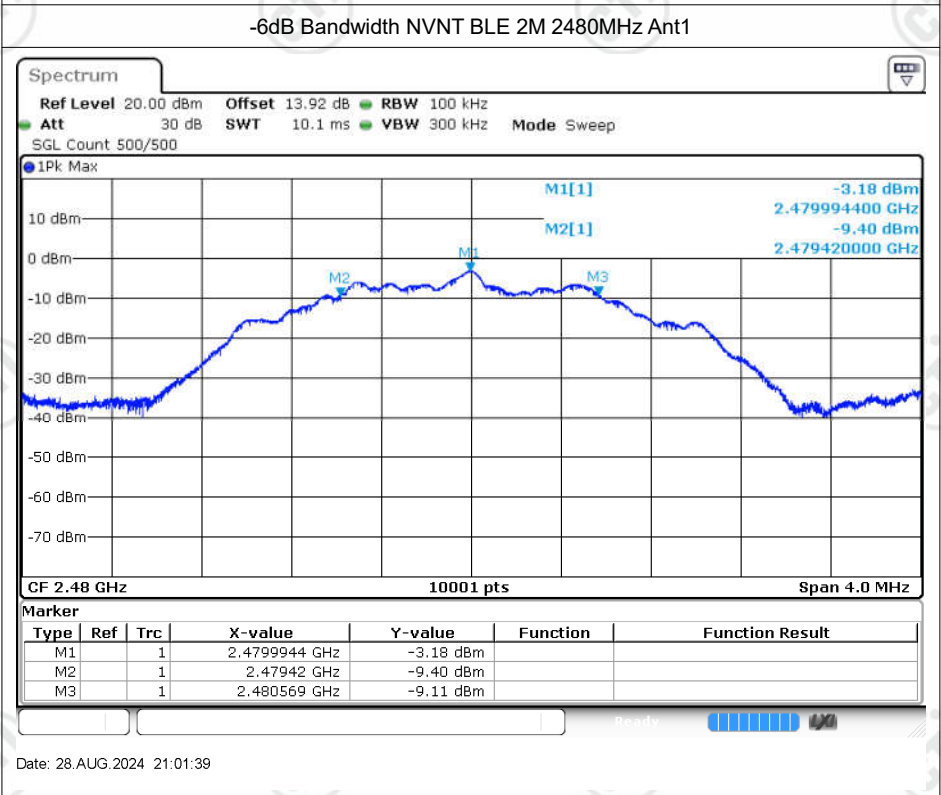
Date: 28.AUG.2024 20:56:03



Date: 28.AUG.2024 20:58:16



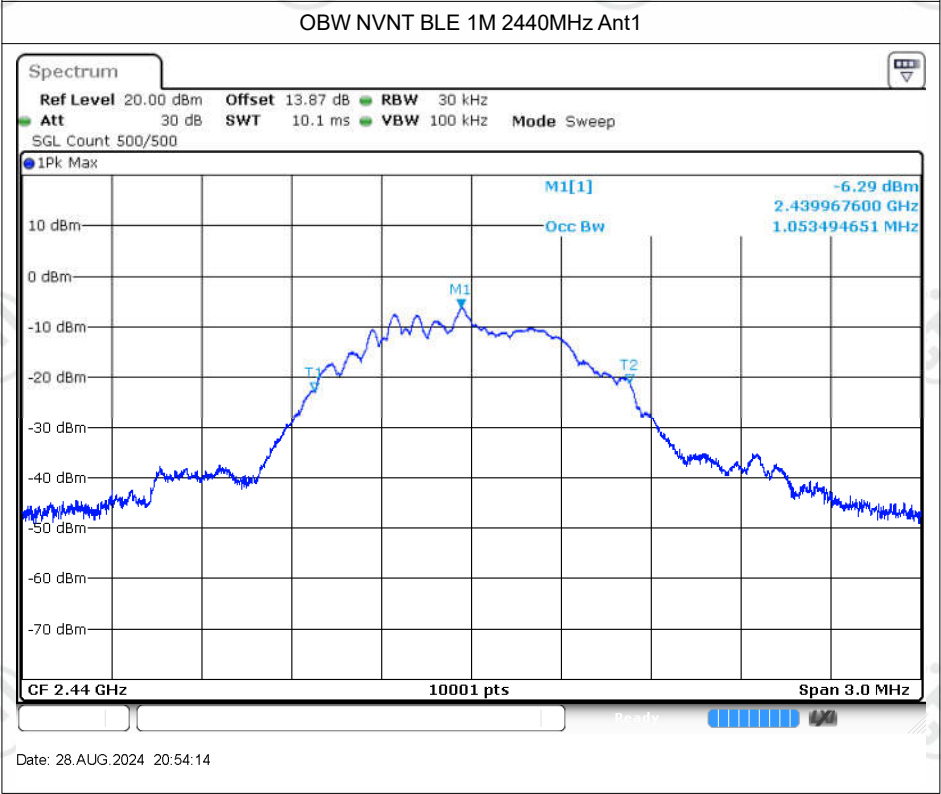
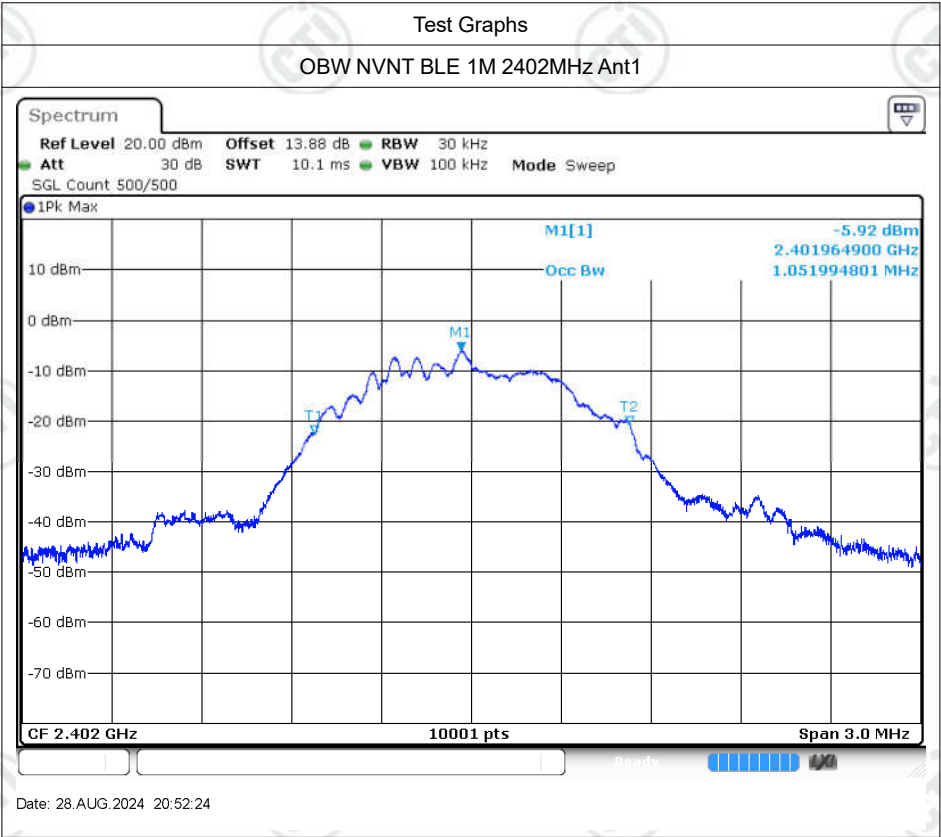
Date: 28.AUG.2024 21:00:03

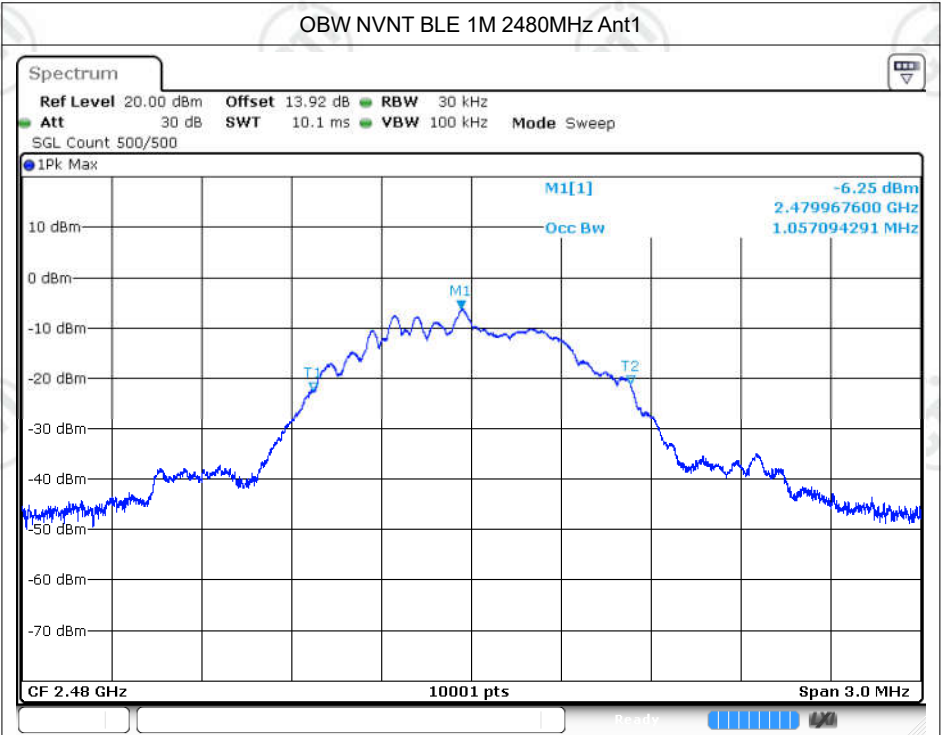


Date: 28.AUG.2024 21:01:39

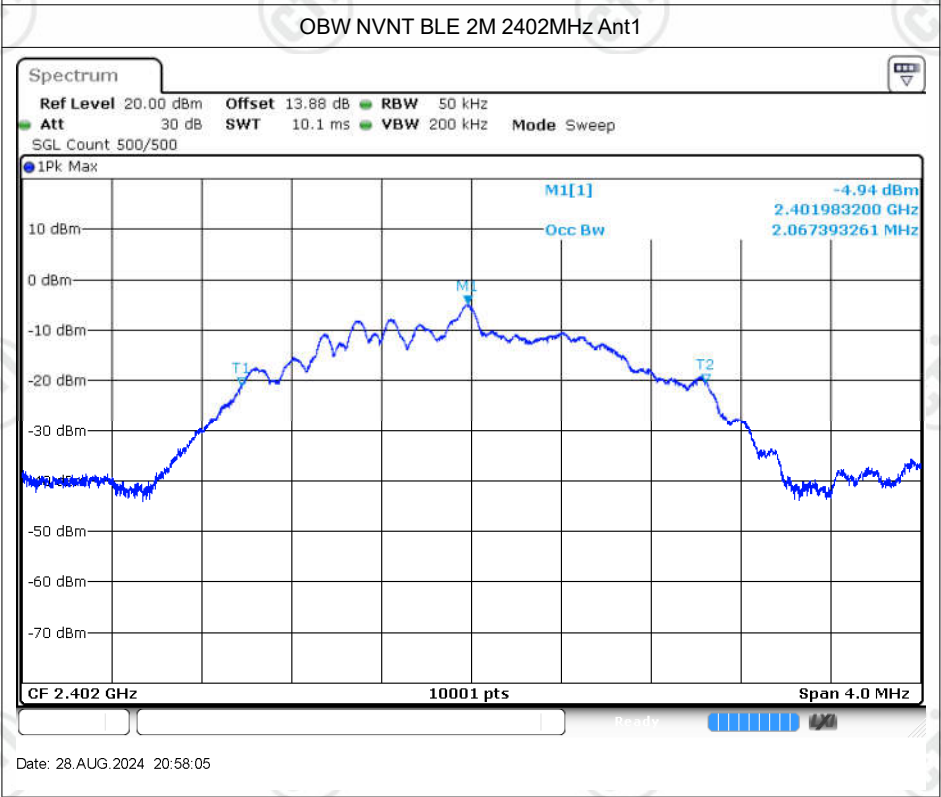
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.052
NVNT	BLE 1M	2440	Ant1	1.053
NVNT	BLE 1M	2480	Ant1	1.057
NVNT	BLE 2M	2402	Ant1	2.067
NVNT	BLE 2M	2440	Ant1	2.069
NVNT	BLE 2M	2480	Ant1	2.078

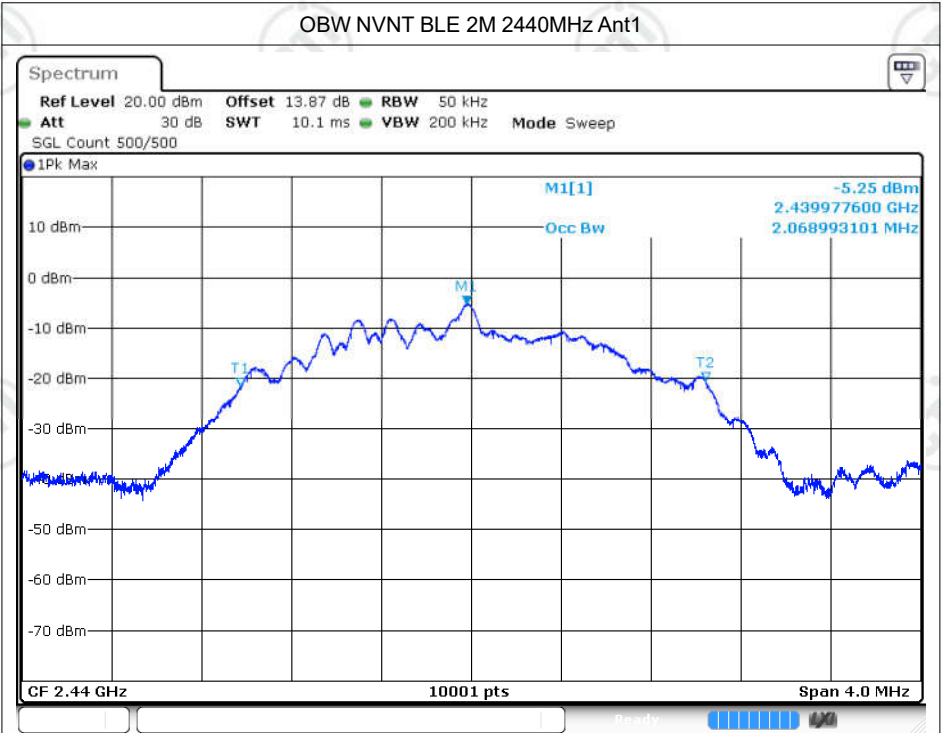




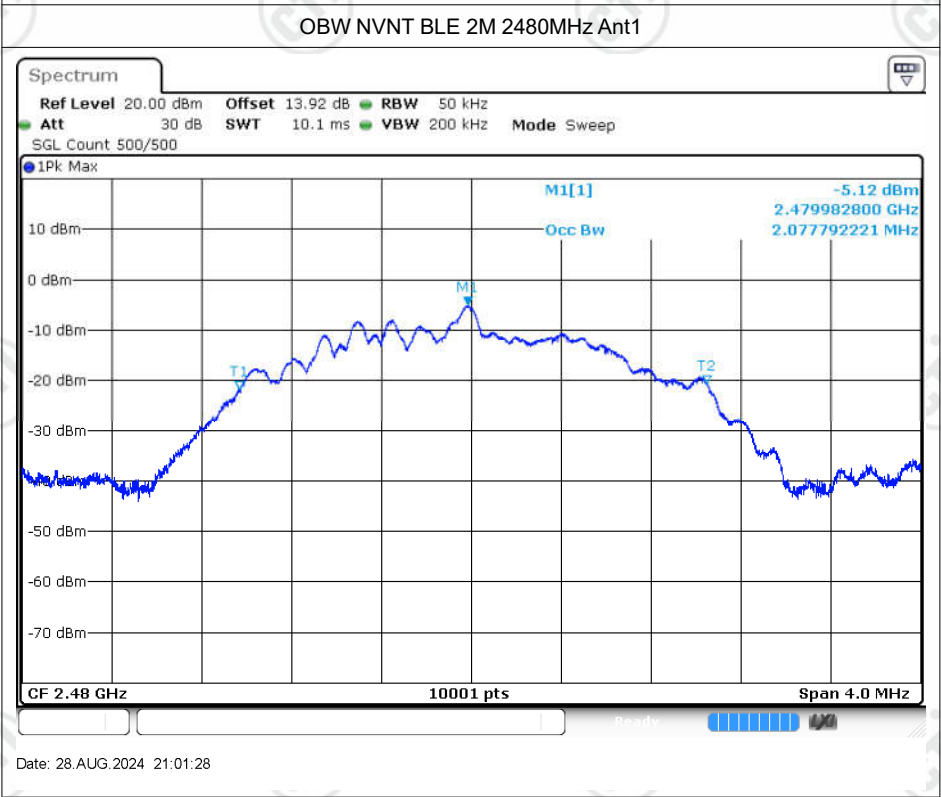
Date: 28.AUG.2024 20:55:52



Date: 28.AUG.2024 20:58:05



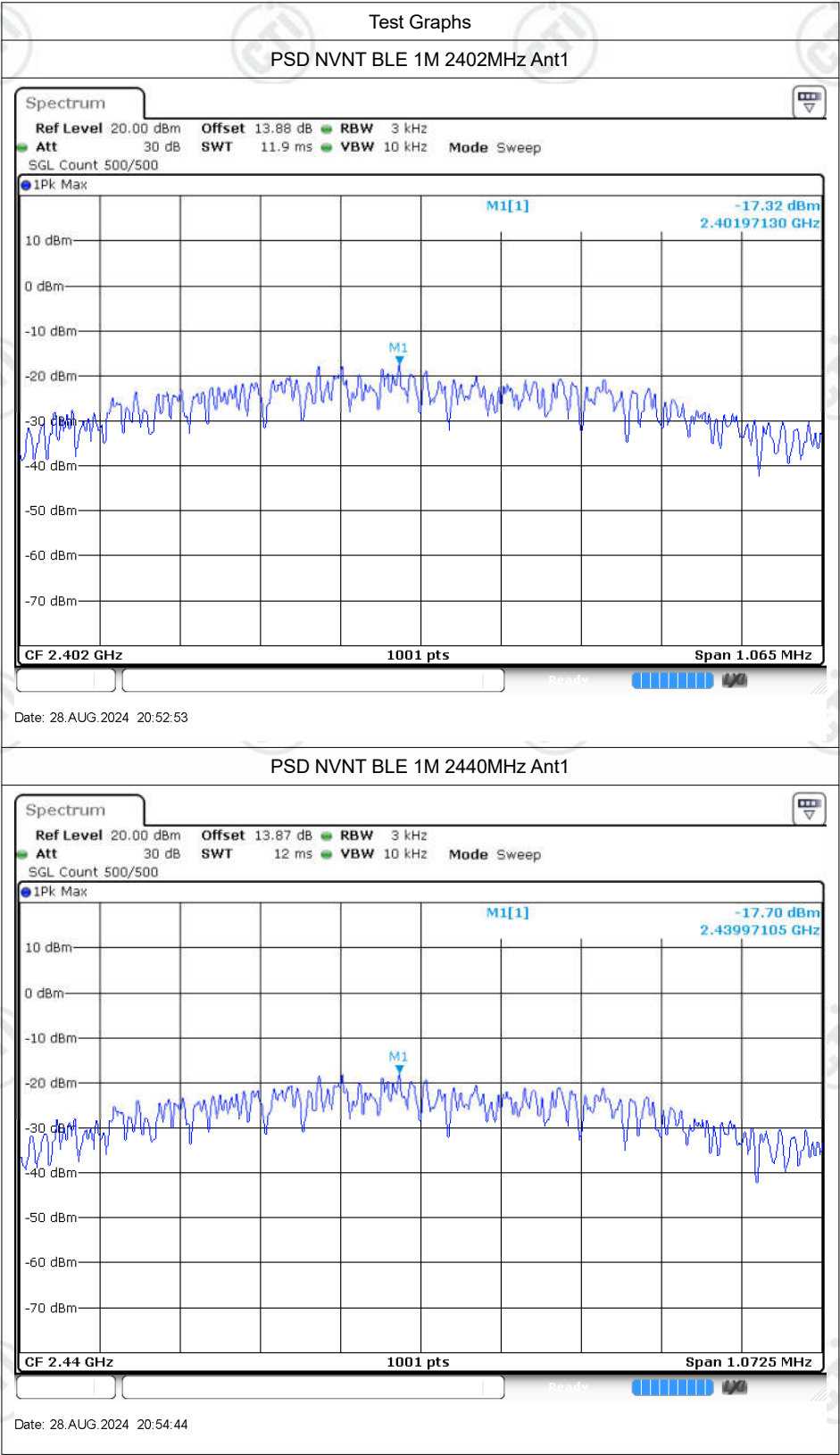
Date: 28.AUG.2024 20:59:51

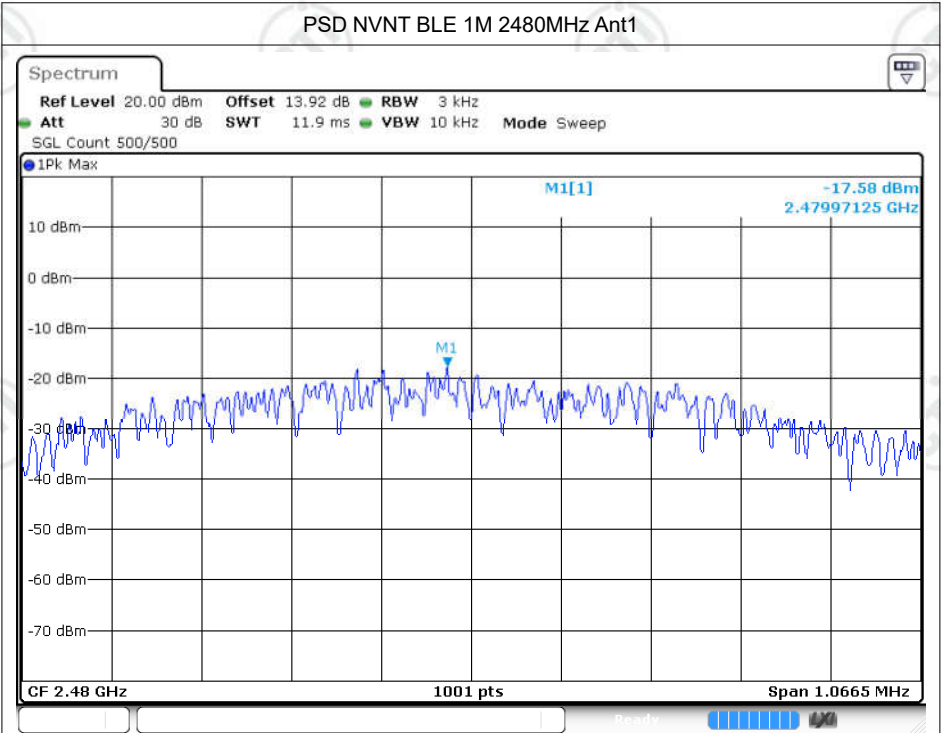


Date: 28.AUG.2024 21:01:28

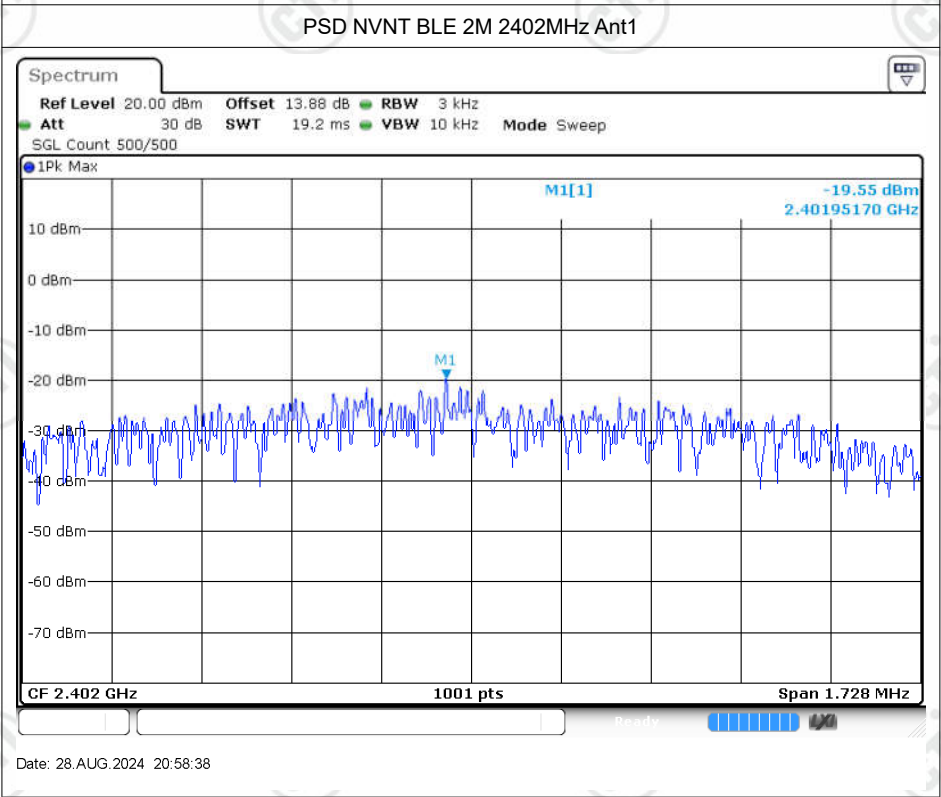
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-17.32	8	Pass
NVNT	BLE 1M	2440	Ant1	-17.7	8	Pass
NVNT	BLE 1M	2480	Ant1	-17.58	8	Pass
NVNT	BLE 2M	2402	Ant1	-19.55	8	Pass
NVNT	BLE 2M	2440	Ant1	-19.85	8	Pass
NVNT	BLE 2M	2480	Ant1	-19.95	8	Pass

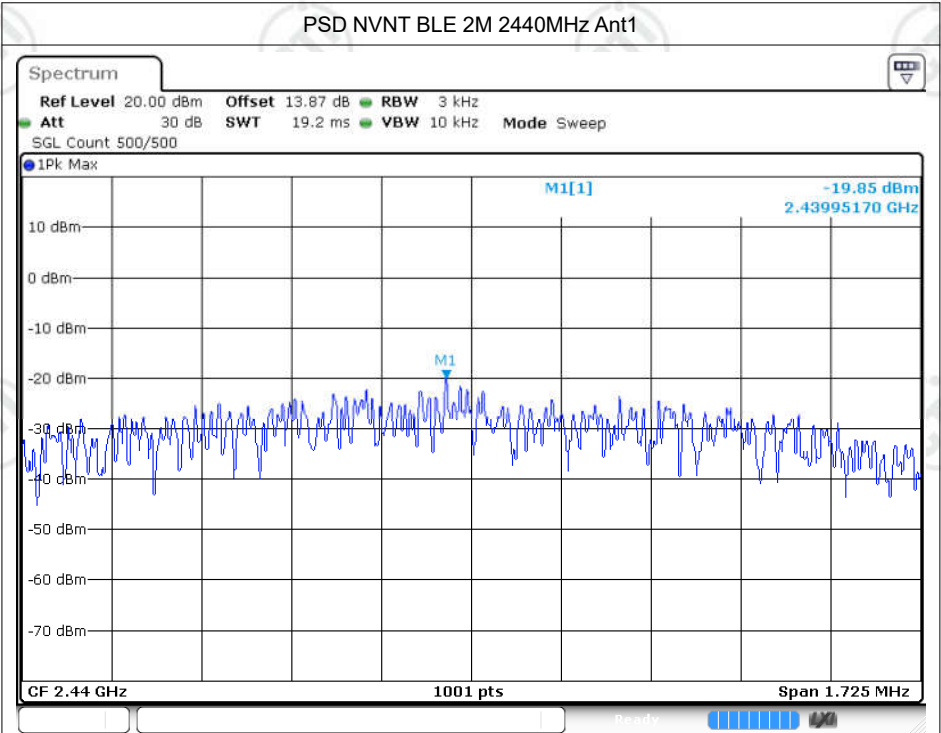




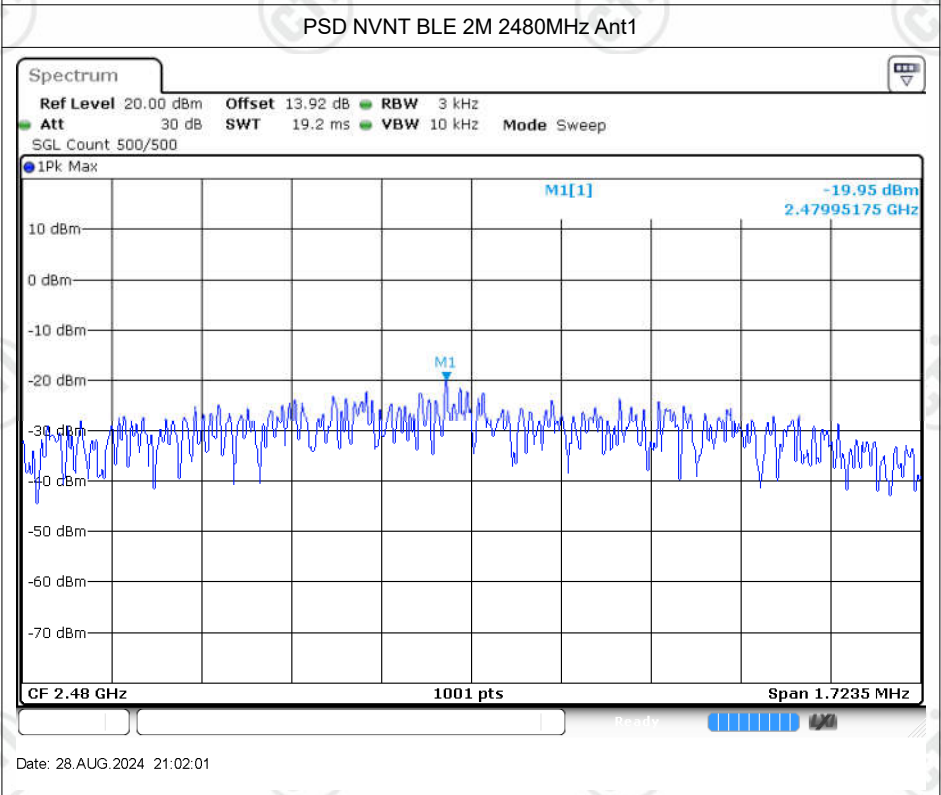
Date: 28.AUG.2024 20:56:21



Date: 28.AUG.2024 20:58:38



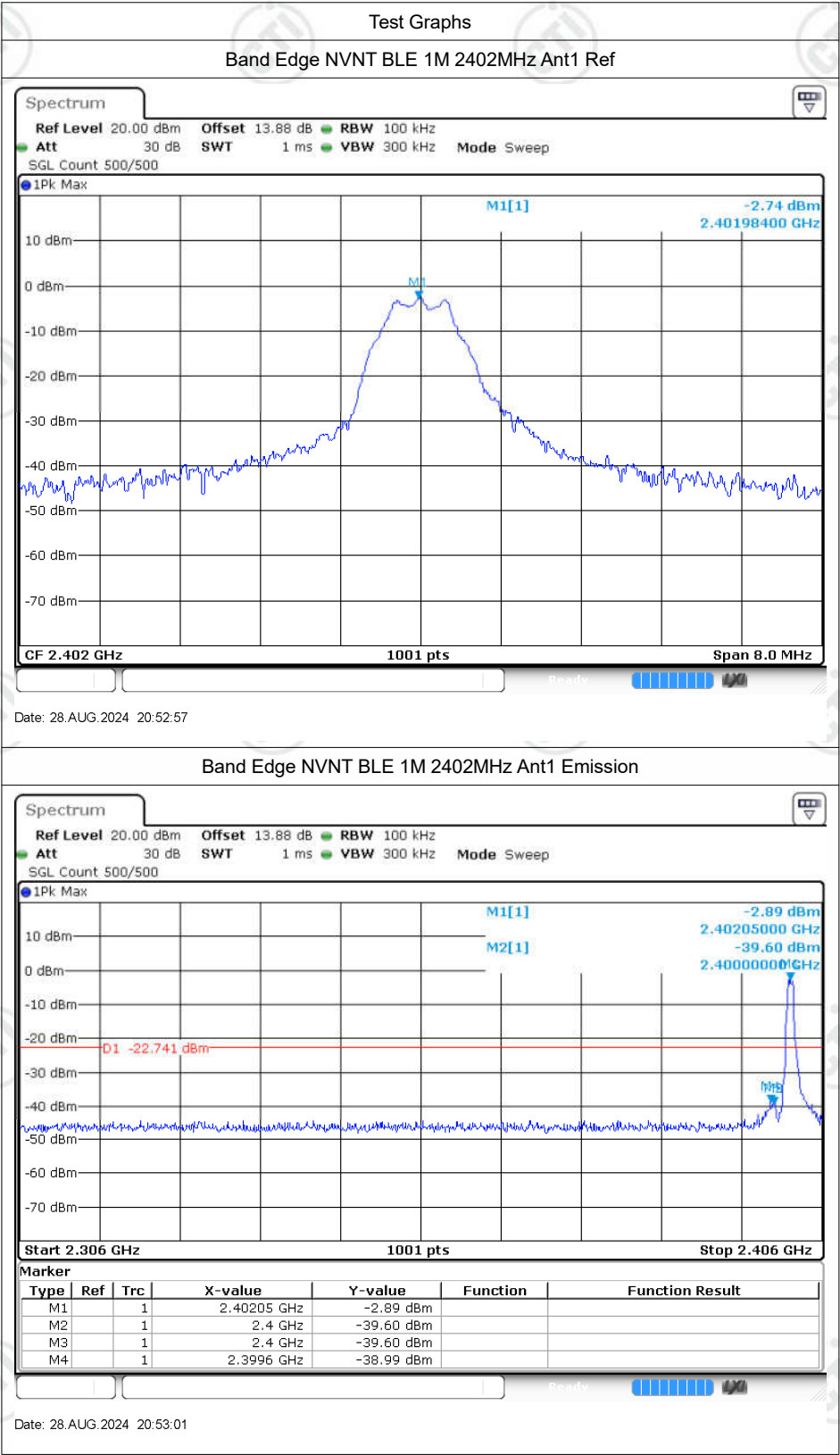
Date: 28.AUG.2024 21:00:25

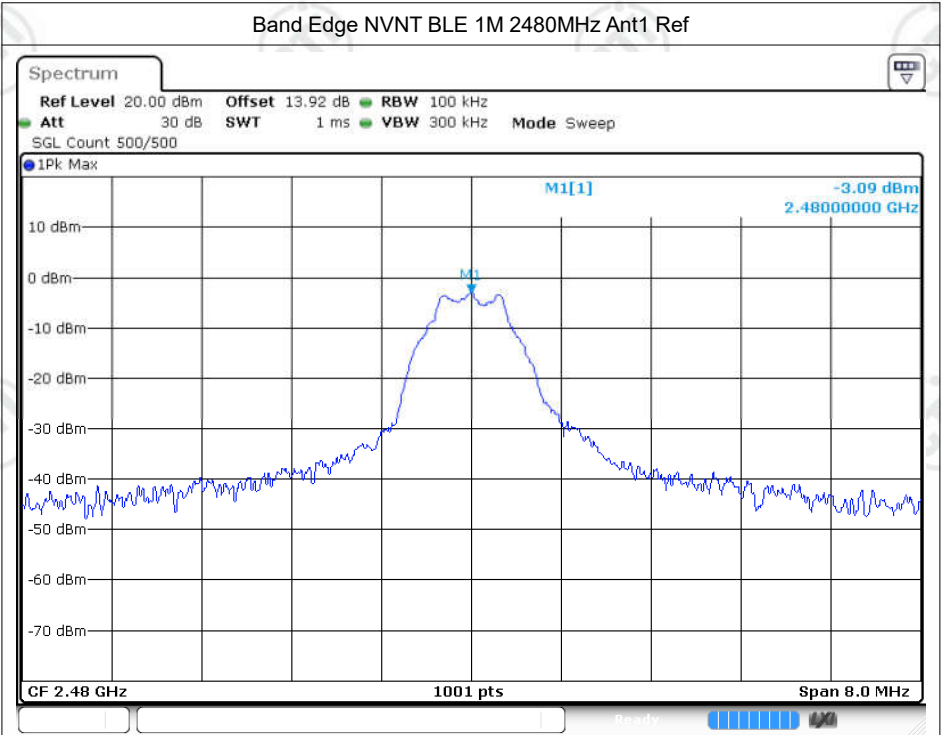


Date: 28.AUG.2024 21:02:01

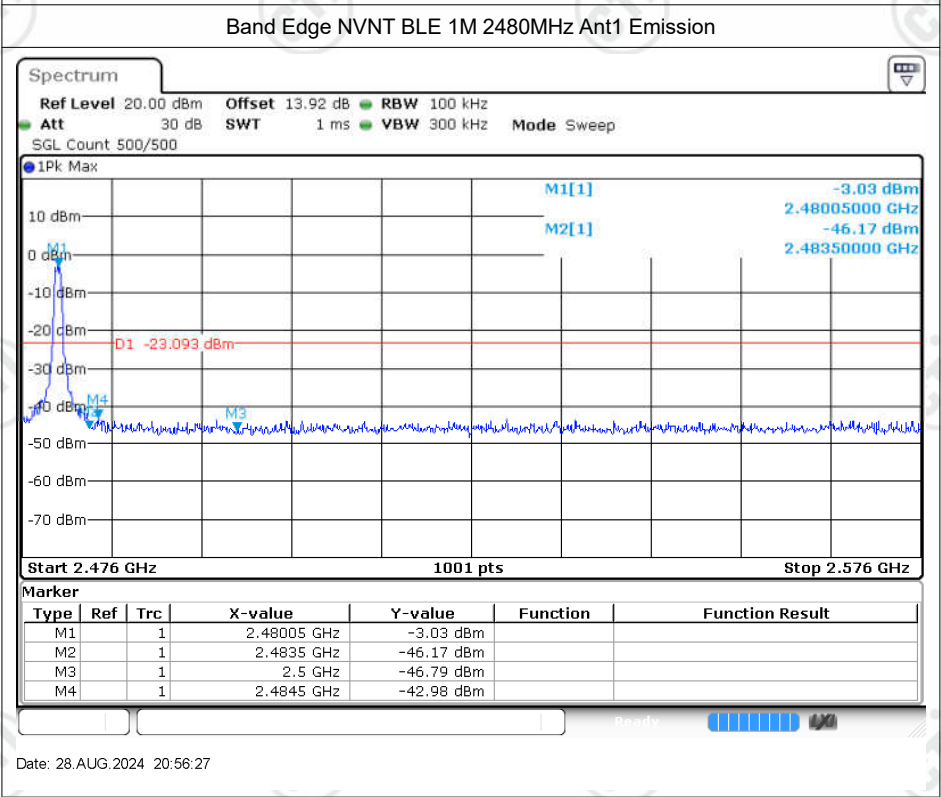
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-36.25	-20	Pass
NVNT	BLE 1M	2480	Ant1	-39.88	-20	Pass
NVNT	BLE 2M	2402	Ant1	-33.37	-20	Pass
NVNT	BLE 2M	2480	Ant1	-38.36	-20	Pass

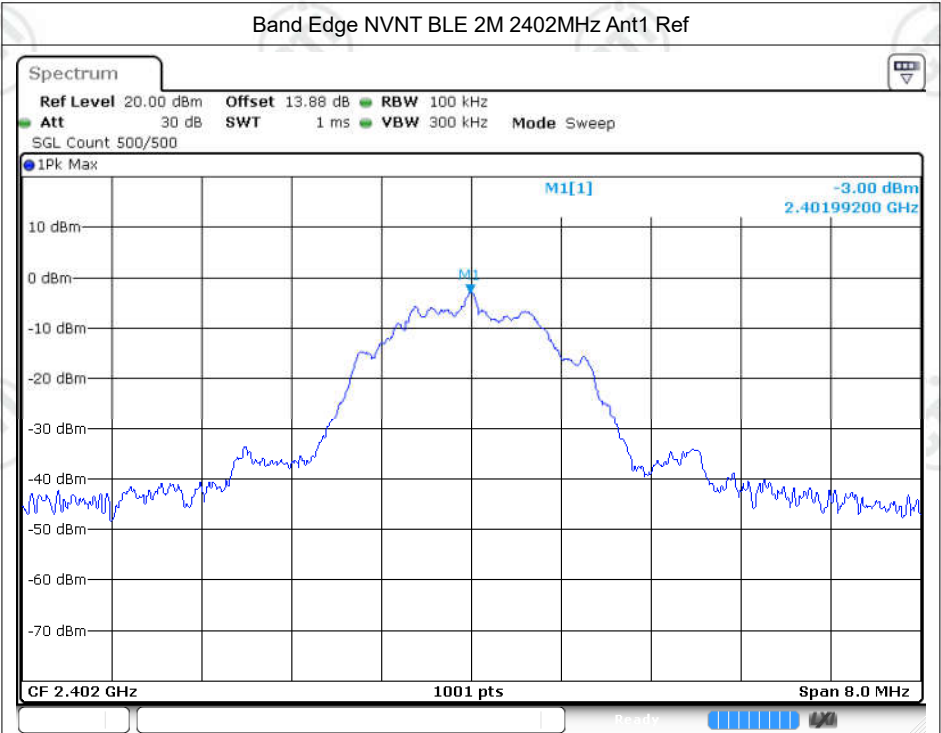




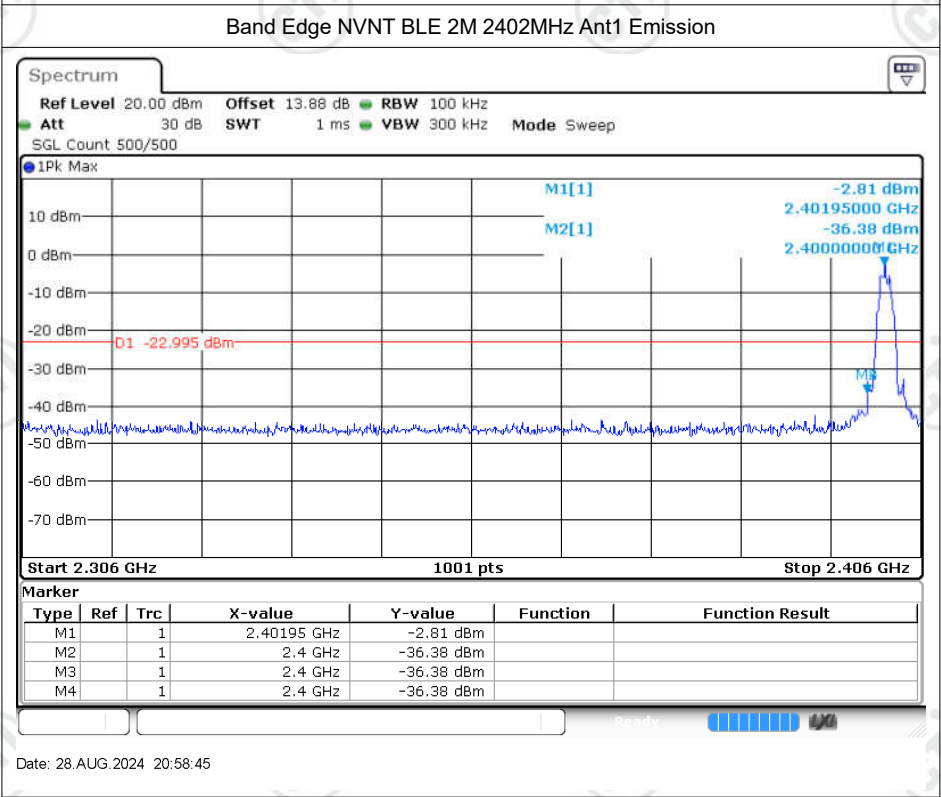
Date: 28.AUG.2024 20:56:25



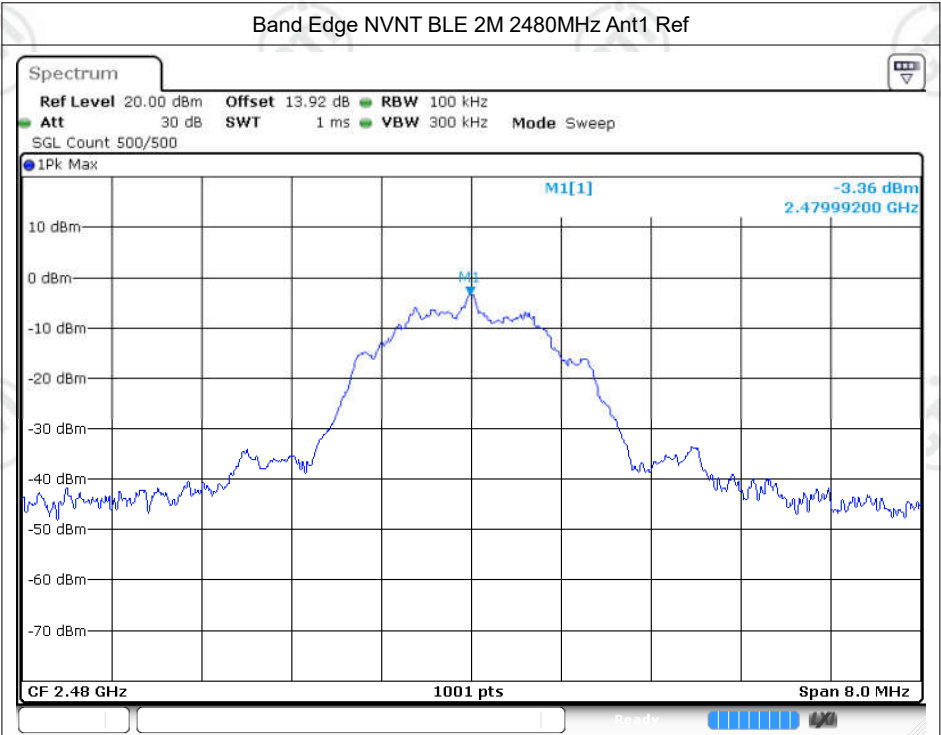
Date: 28.AUG.2024 20:56:27



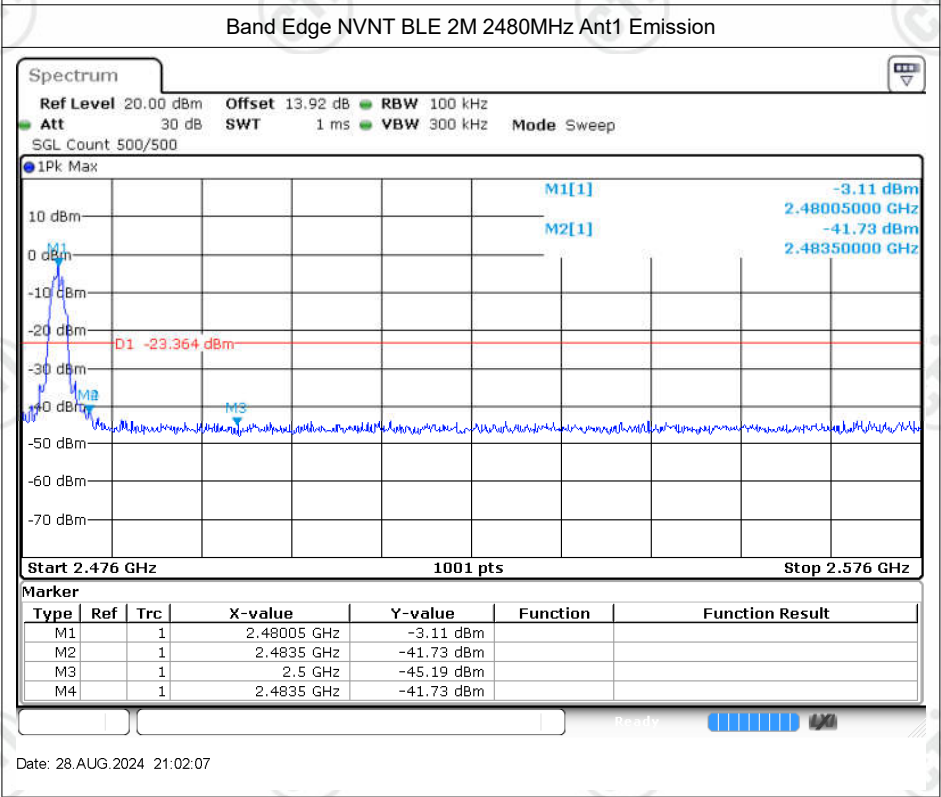
Date: 28.AUG.2024 20:58:42



Date: 28.AUG.2024 20:58:45



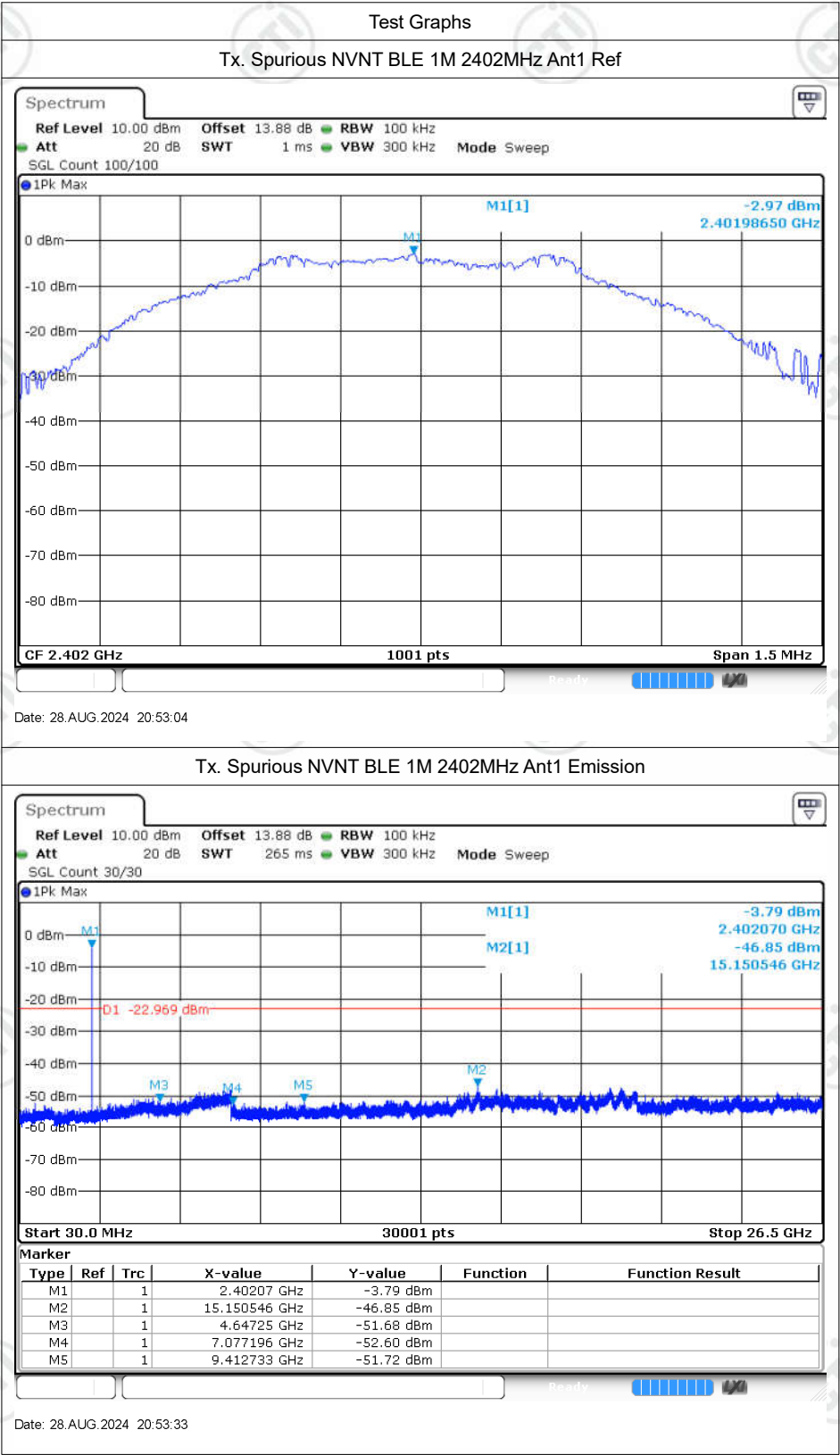
Date: 28.AUG.2024 21:02:05

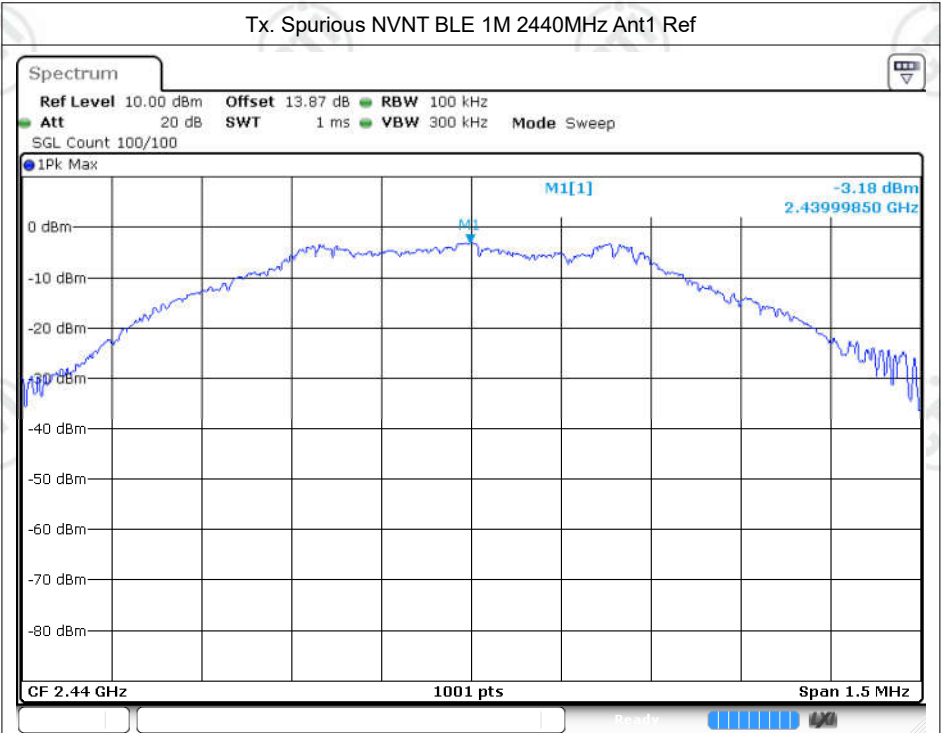


Date: 28.AUG.2024 21:02:07

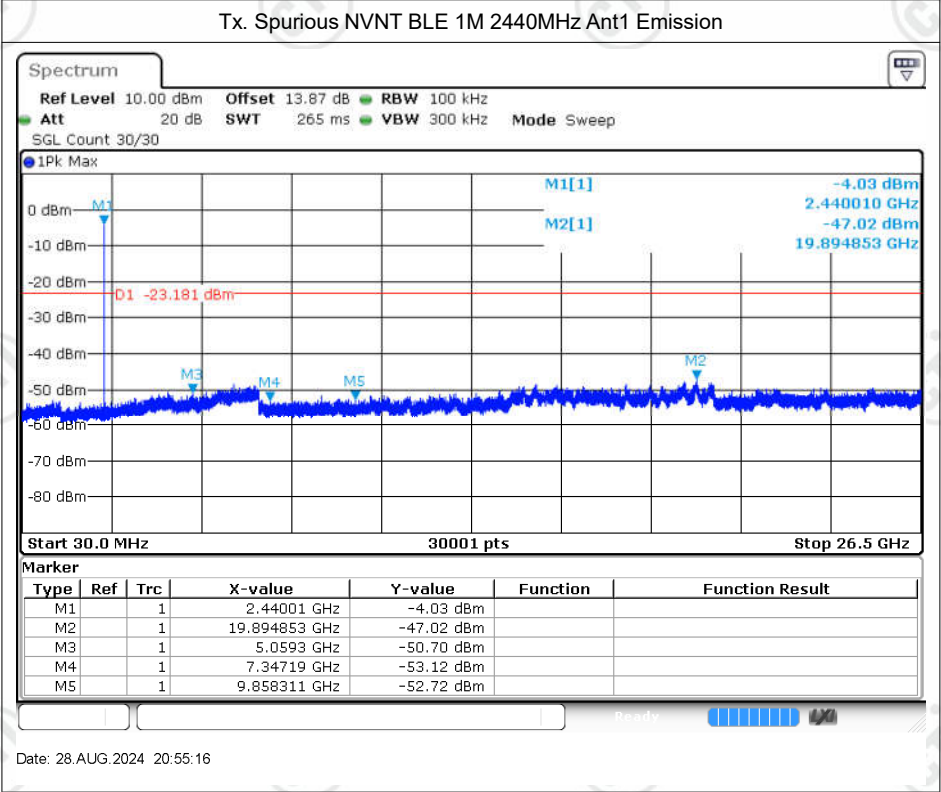
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-43.87	-20	Pass
NVNT	BLE 1M	2440	Ant1	-43.83	-20	Pass
NVNT	BLE 1M	2480	Ant1	-43.93	-20	Pass
NVNT	BLE 2M	2402	Ant1	-44.78	-20	Pass
NVNT	BLE 2M	2440	Ant1	-43.57	-20	Pass
NVNT	BLE 2M	2480	Ant1	-43.55	-20	Pass

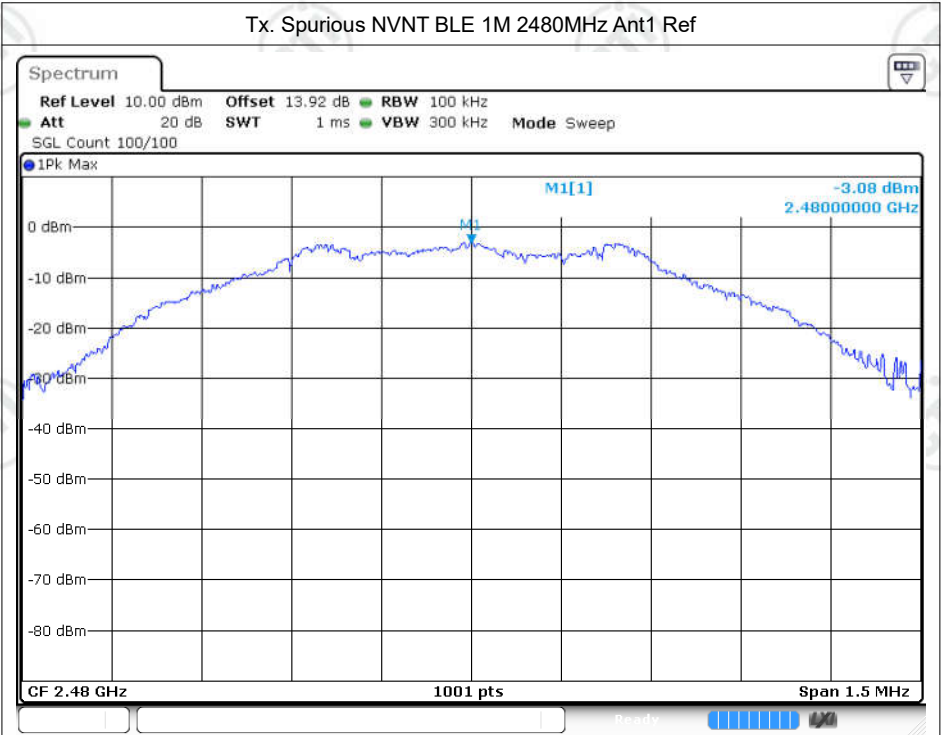




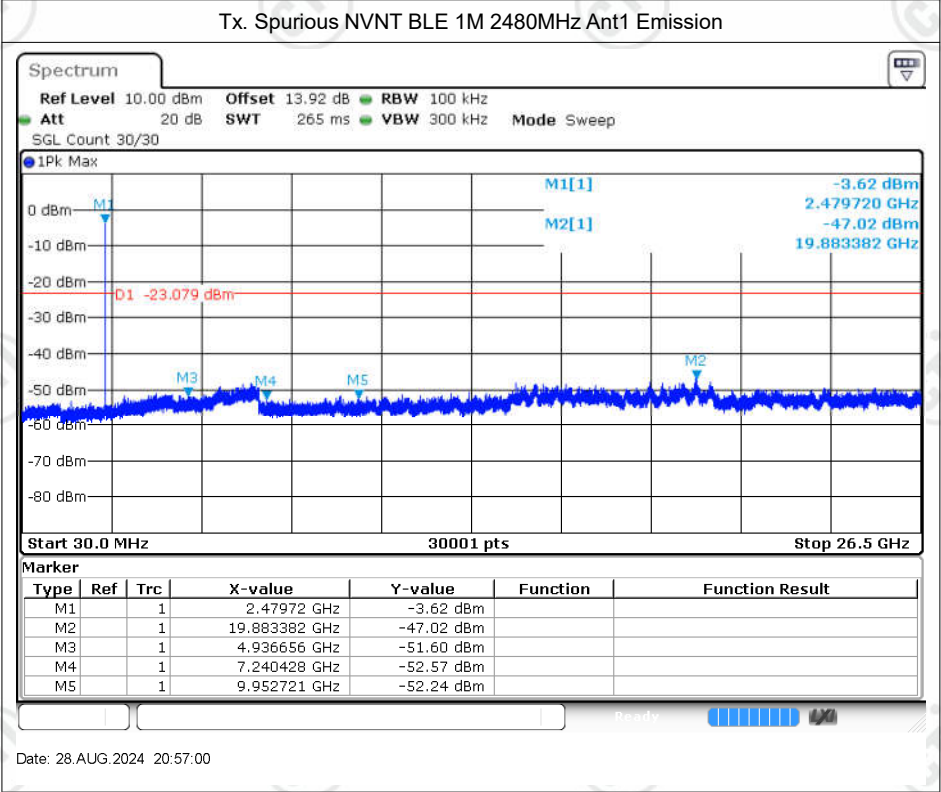
Date: 28.AUG.2024 20:54:47



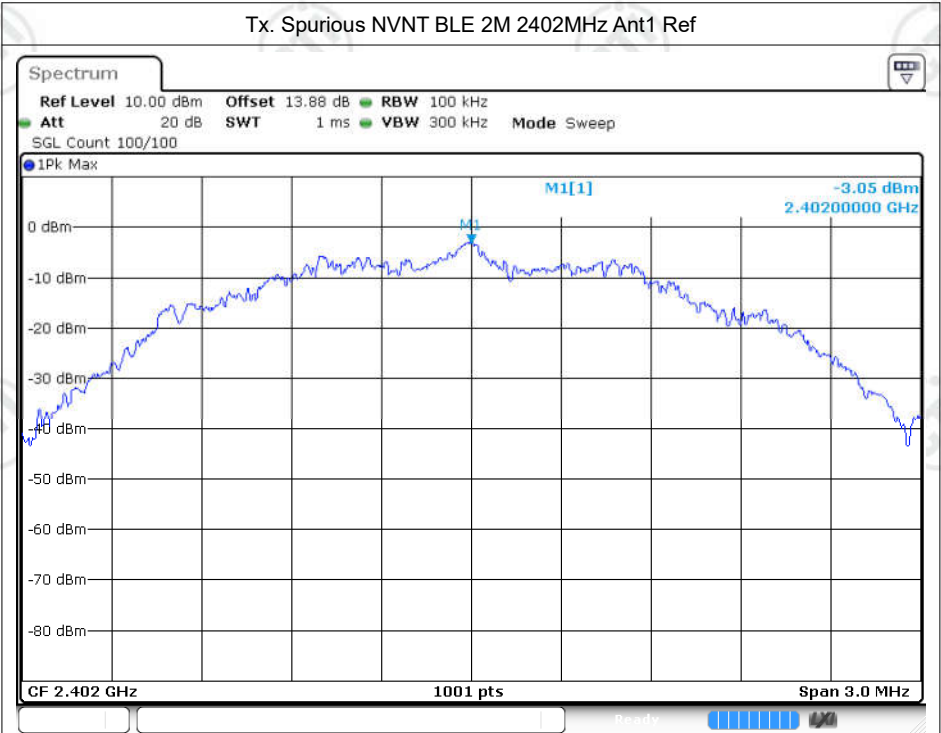
Date: 28.AUG.2024 20:55:16



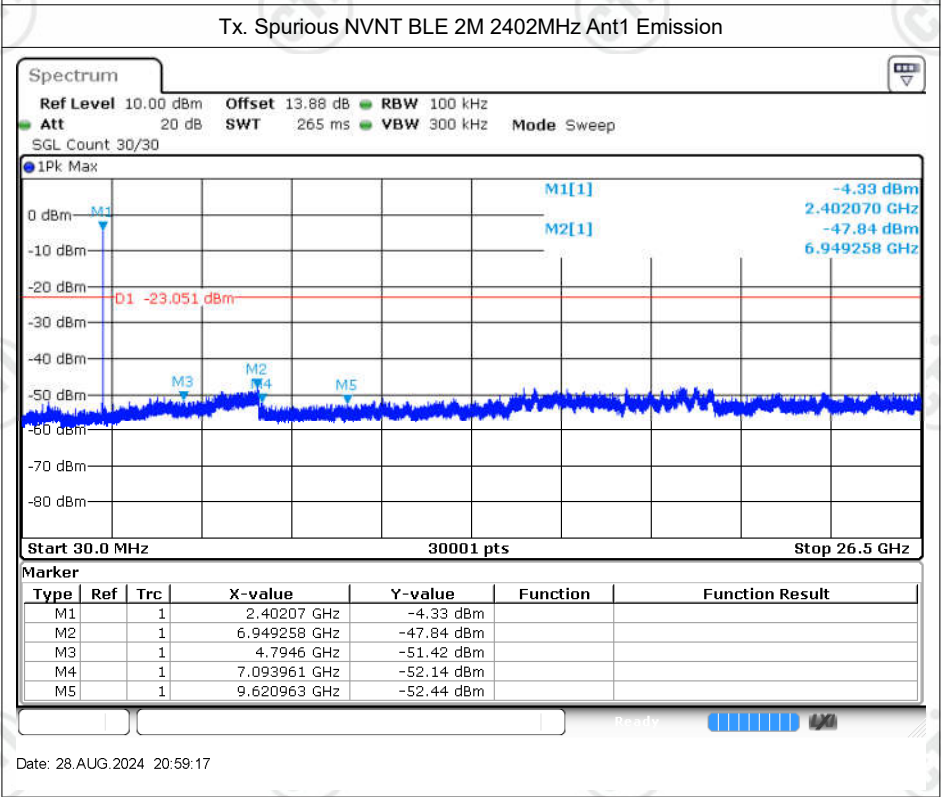
Date: 28.AUG.2024 20:56:31



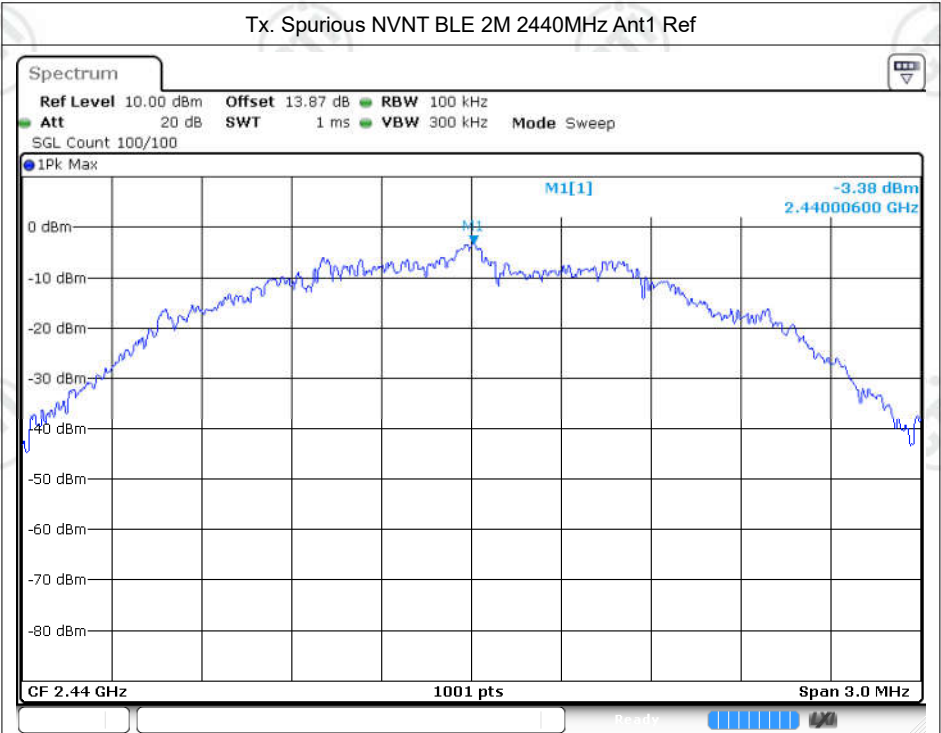
Date: 28.AUG.2024 20:57:00



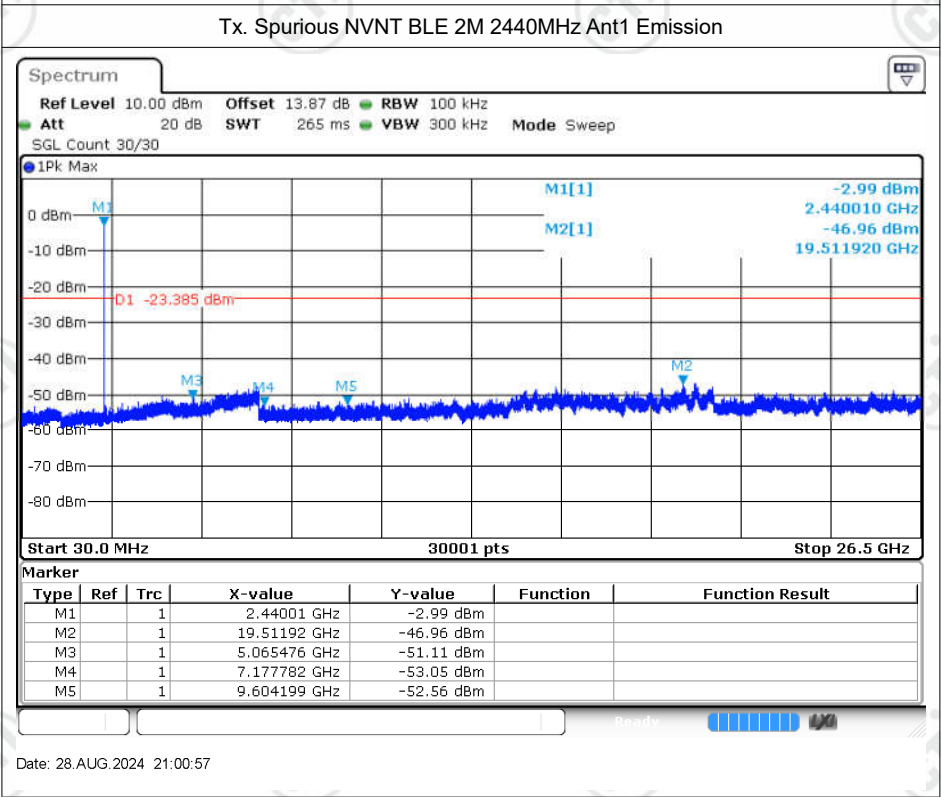
Date: 28.AUG.2024 20:58:48



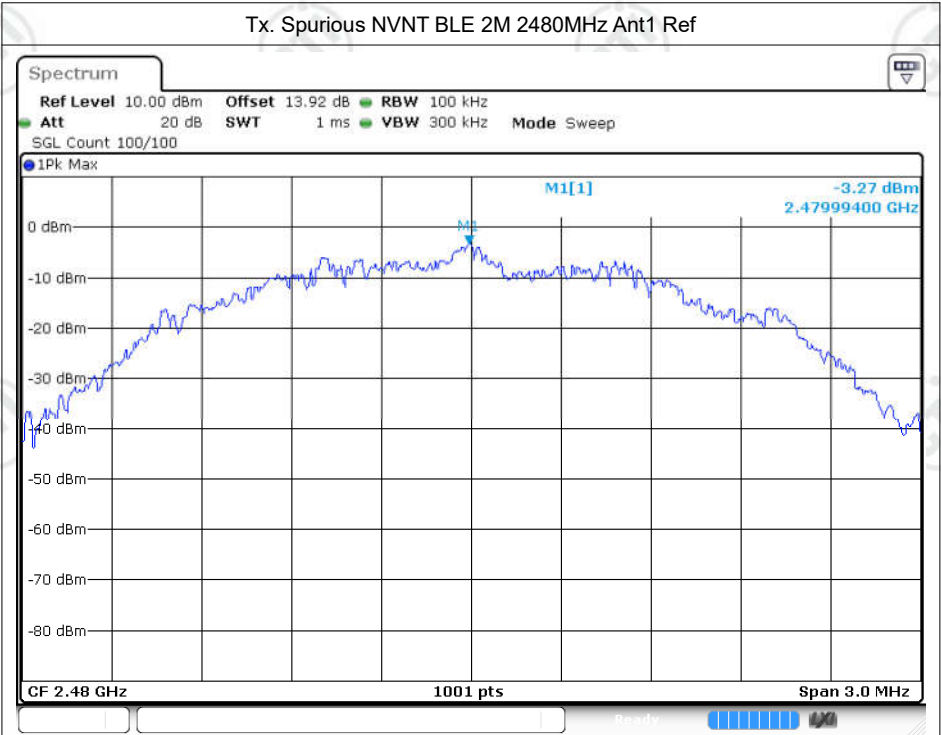
Date: 28.AUG.2024 20:59:17



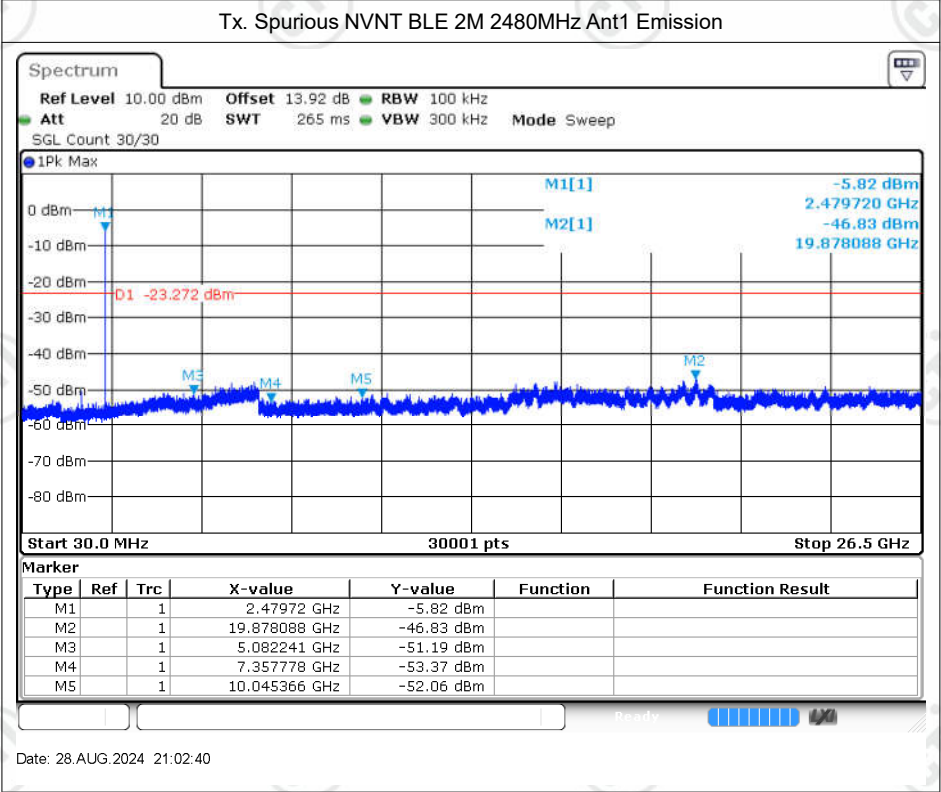
Date: 28.AUG.2024 21:00:28



Date: 28.AUG.2024 21:00:57



Date: 28.AUG.2024 21:02:11



Date: 28.AUG.2024 21:02:40

*** End of Report ***