

Appendix: Bluetooth LE

Contents

Contents 2

Duty Cycle 3

Maximum Peak Conducted Output Power 7

-6dB Bandwidth 11

Occupied Channel Bandwidth 15

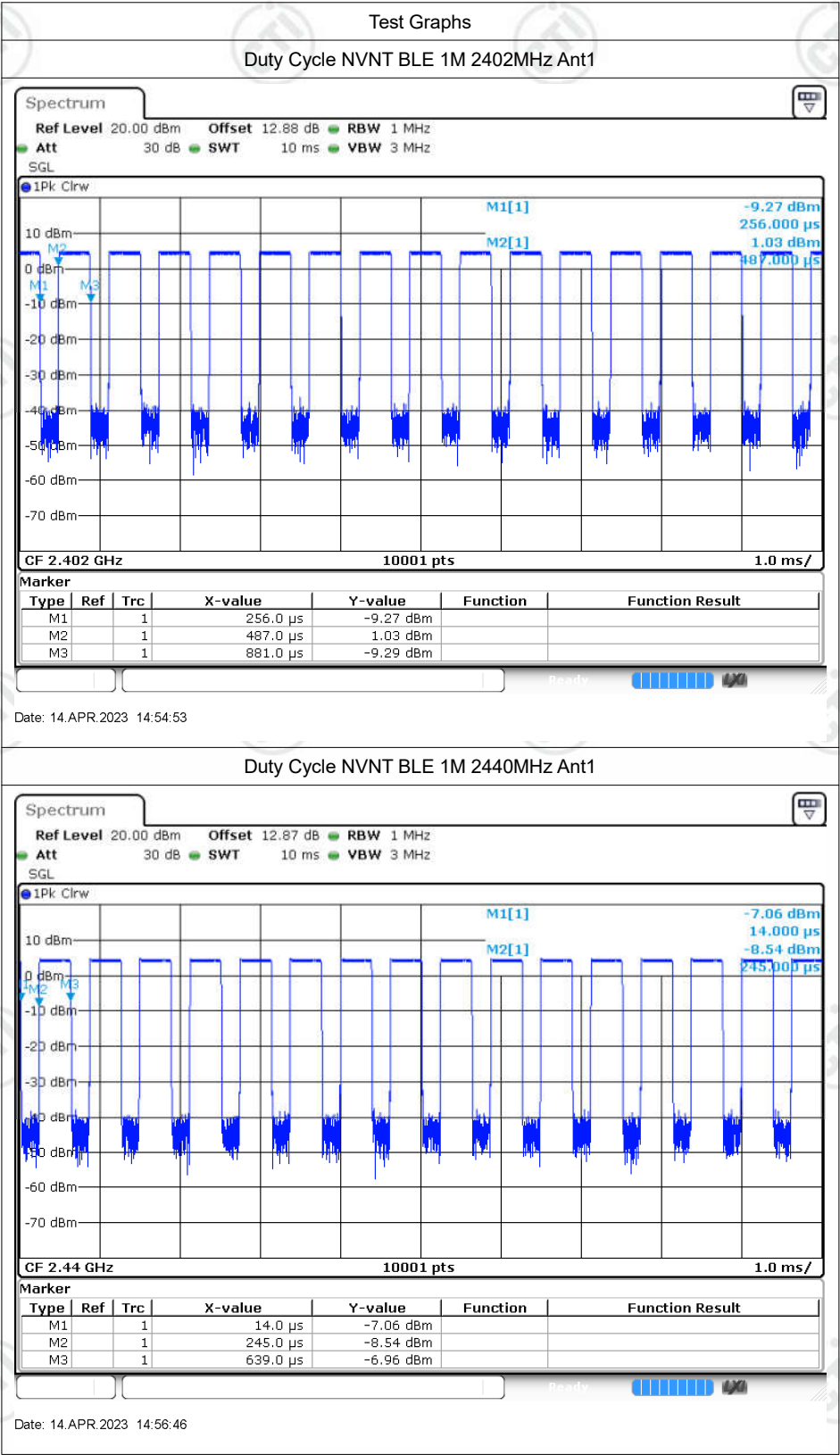
Maximum Power Spectral Density Level 19

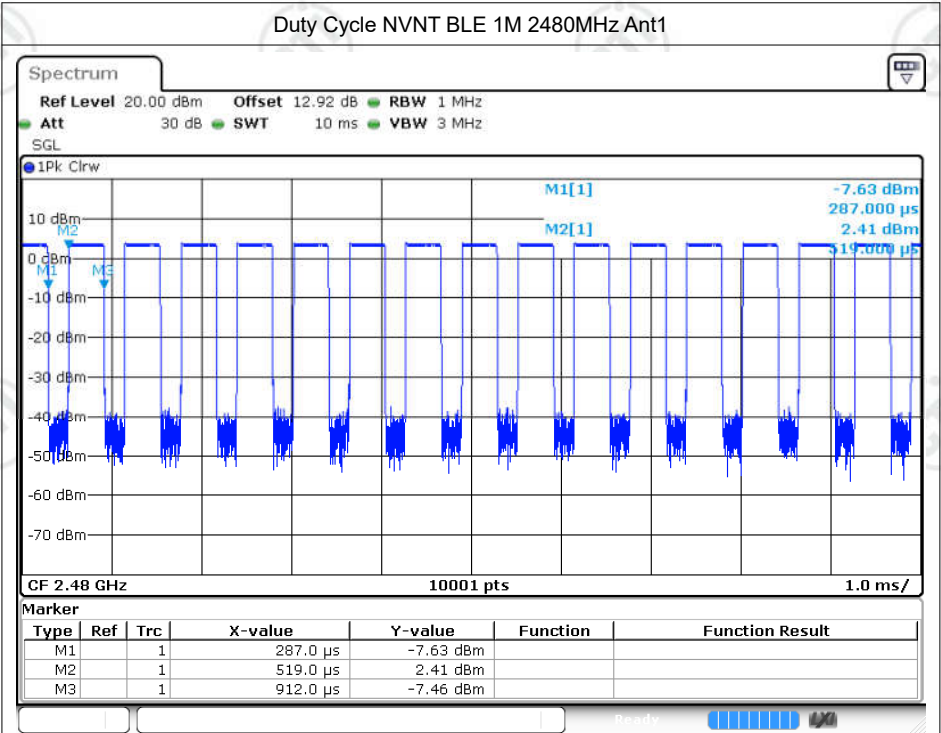
Band Edge 23

Conducted RF Spurious Emission 28

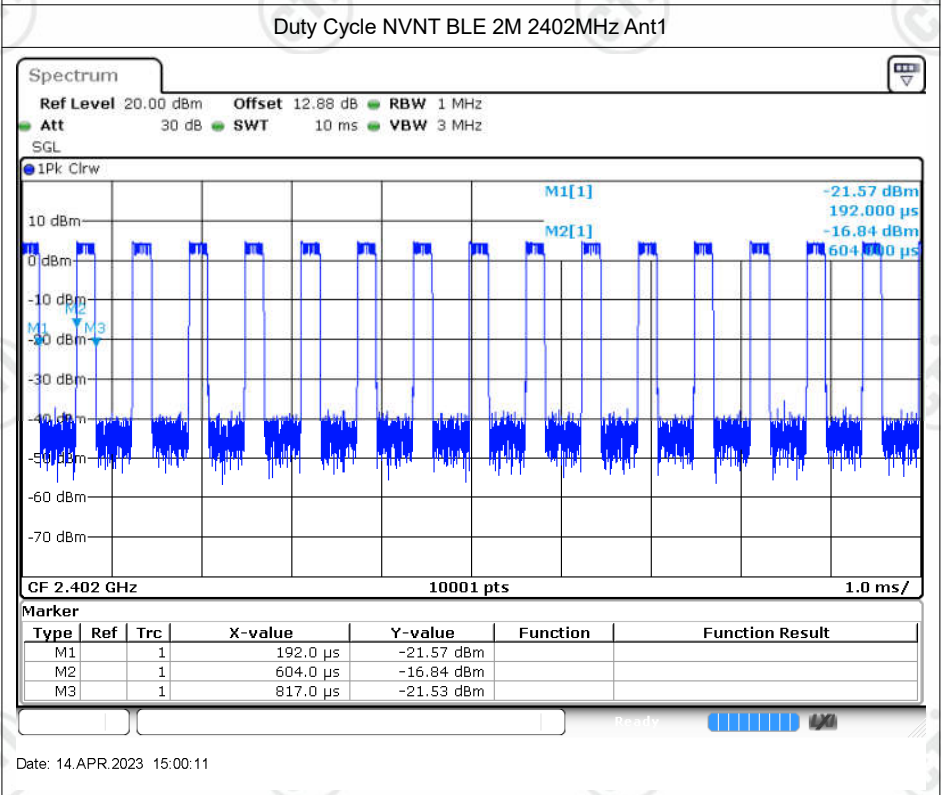
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	63.04	2	2.54
NVNT	BLE 1M	2440	Ant1	63.04	2	2.54
NVNT	BLE 1M	2480	Ant1	62.88	2.01	2.54
NVNT	BLE 2M	2402	Ant1	34.08	4.68	4.69
NVNT	BLE 2M	2440	Ant1	34.08	4.68	4.69
NVNT	BLE 2M	2480	Ant1	33.92	4.7	4.72

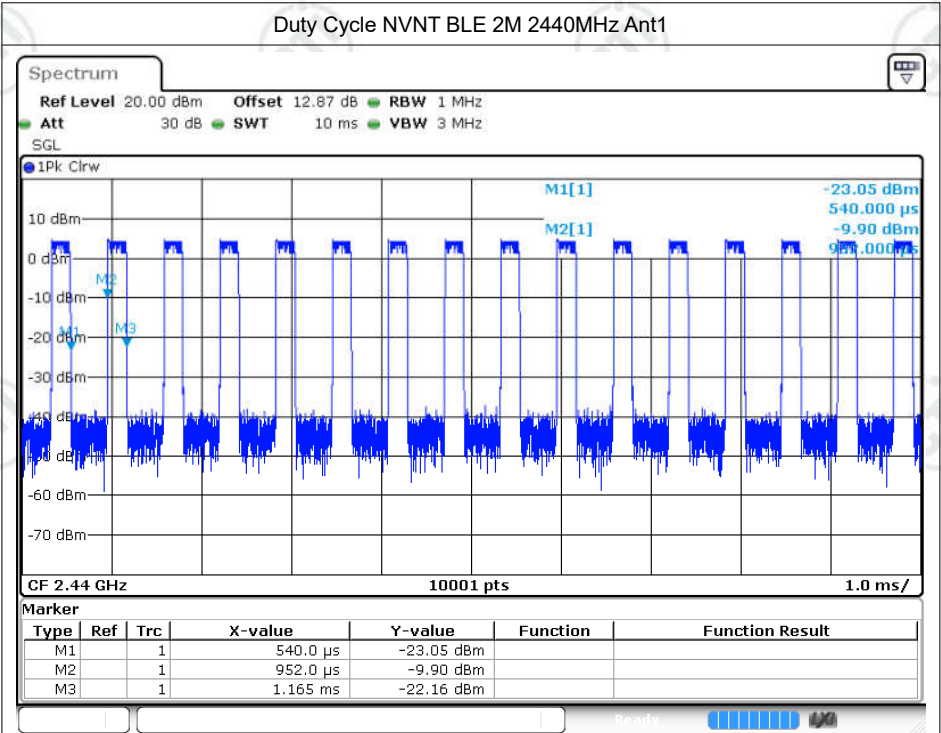




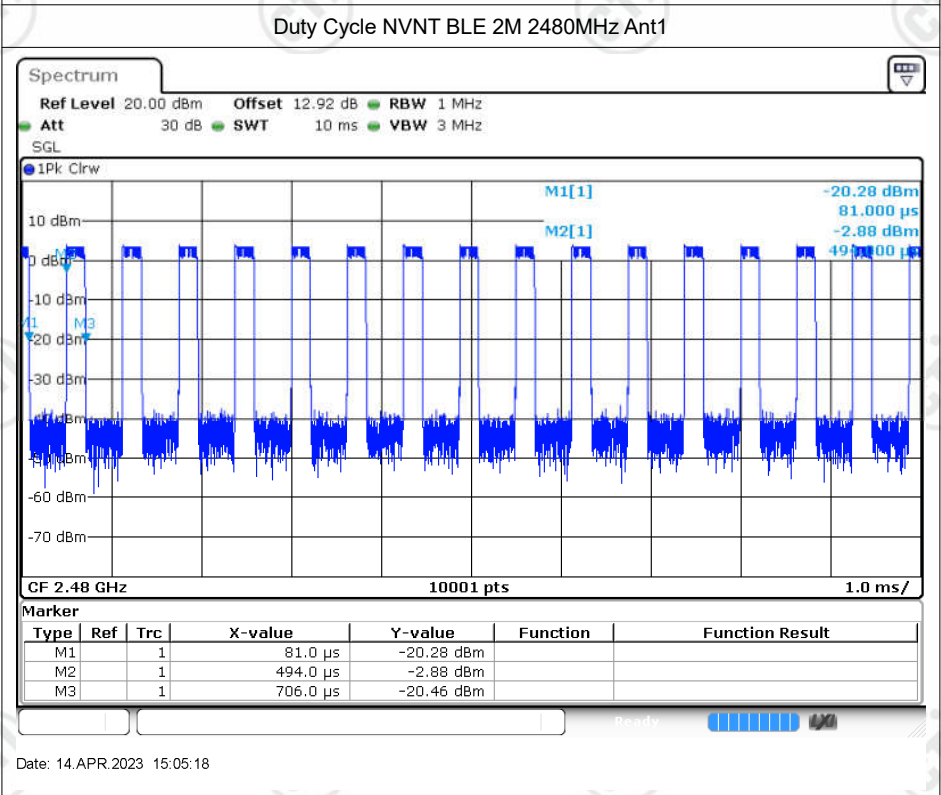
Date: 14.APR.2023 14:58:25



Date: 14.APR.2023 15:00:11



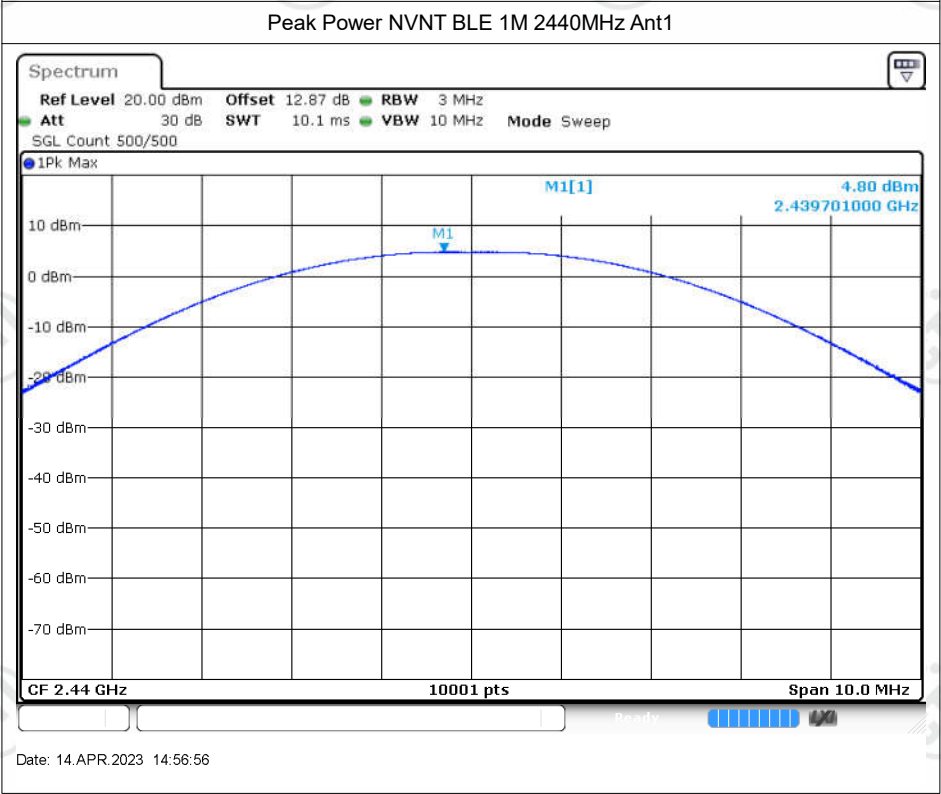
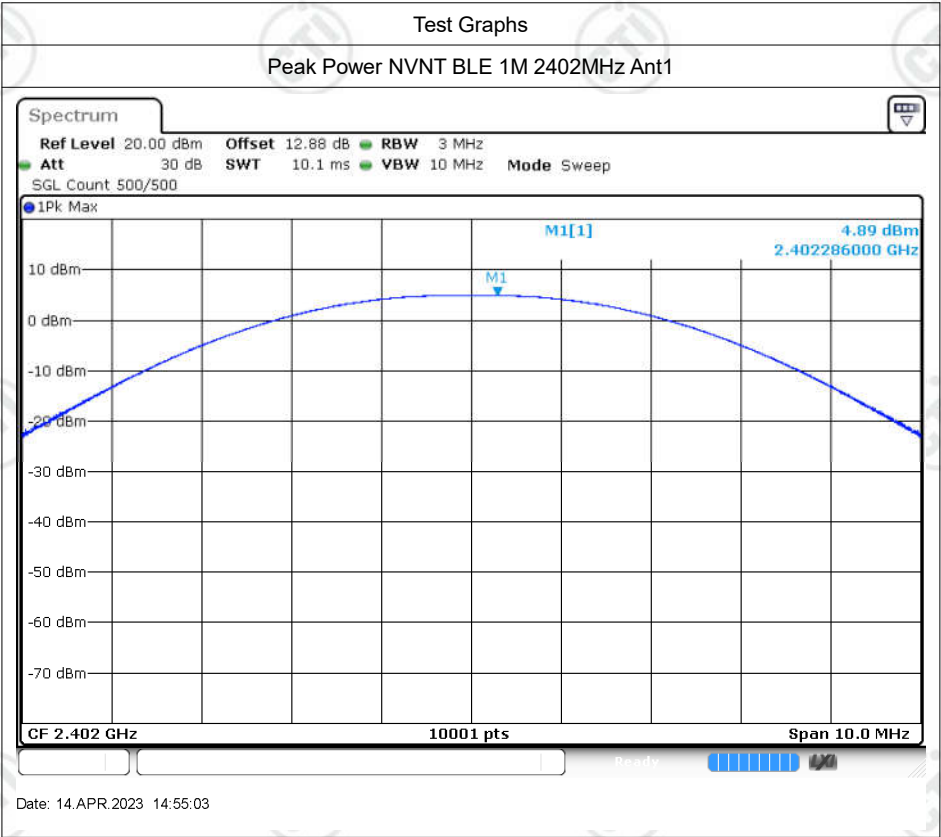
Date: 14.APR.2023 15:02:51

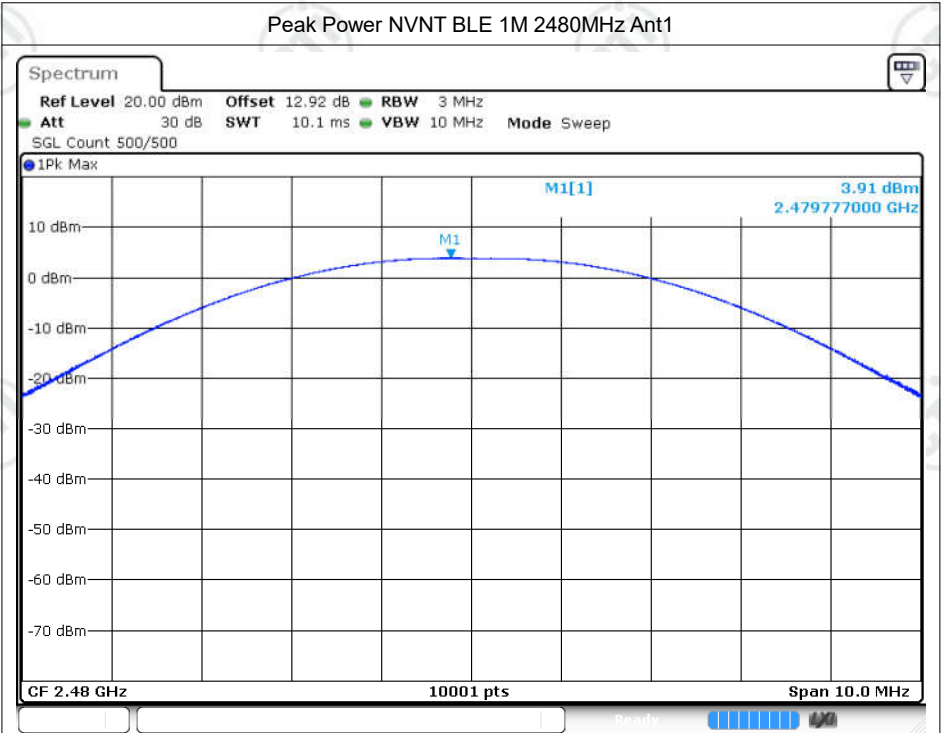


Date: 14.APR.2023 15:05:18

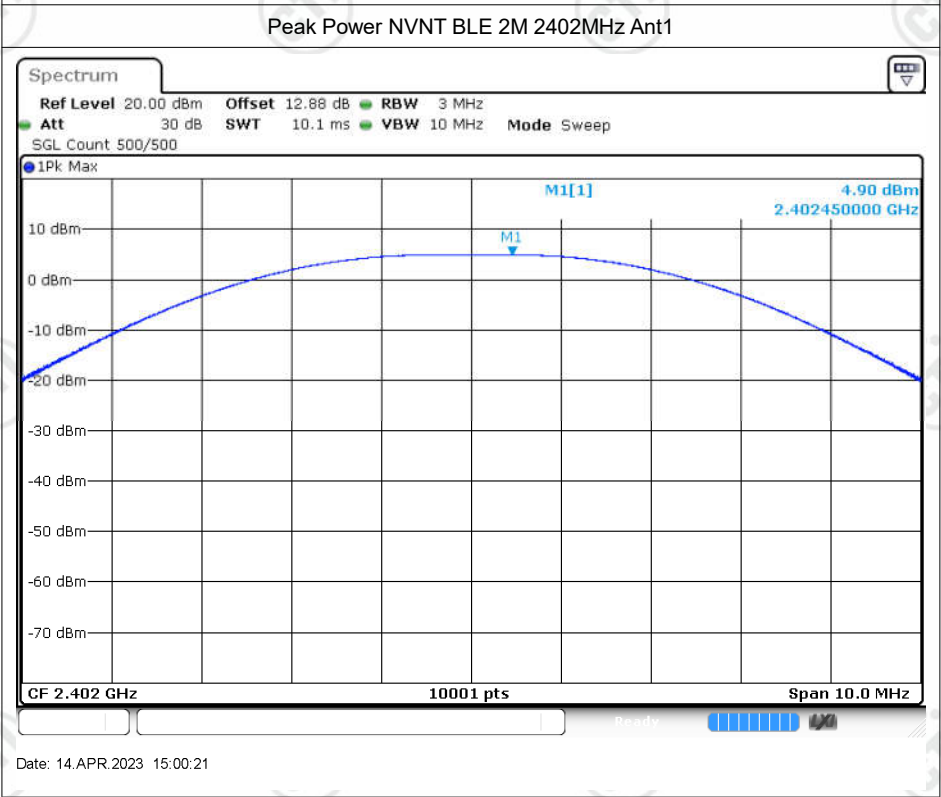
Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	4.89	30	Pass
NVNT	BLE 1M	2440	Ant1	4.8	30	Pass
NVNT	BLE 1M	2480	Ant1	3.91	30	Pass
NVNT	BLE 2M	2402	Ant1	4.9	30	Pass
NVNT	BLE 2M	2440	Ant1	4.8	30	Pass
NVNT	BLE 2M	2480	Ant1	4.01	30	Pass

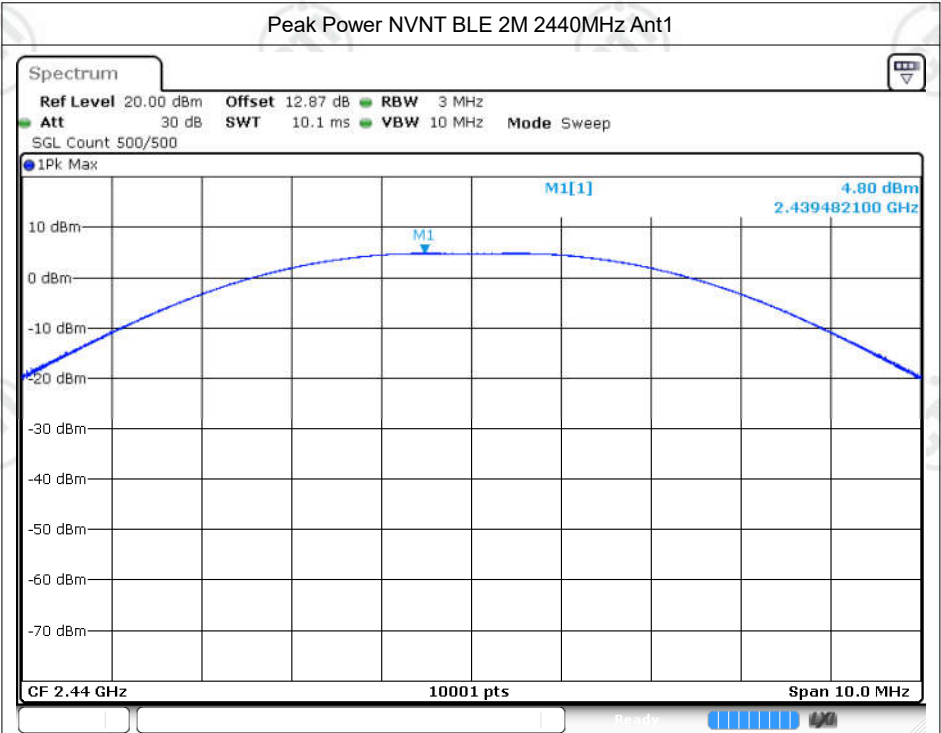




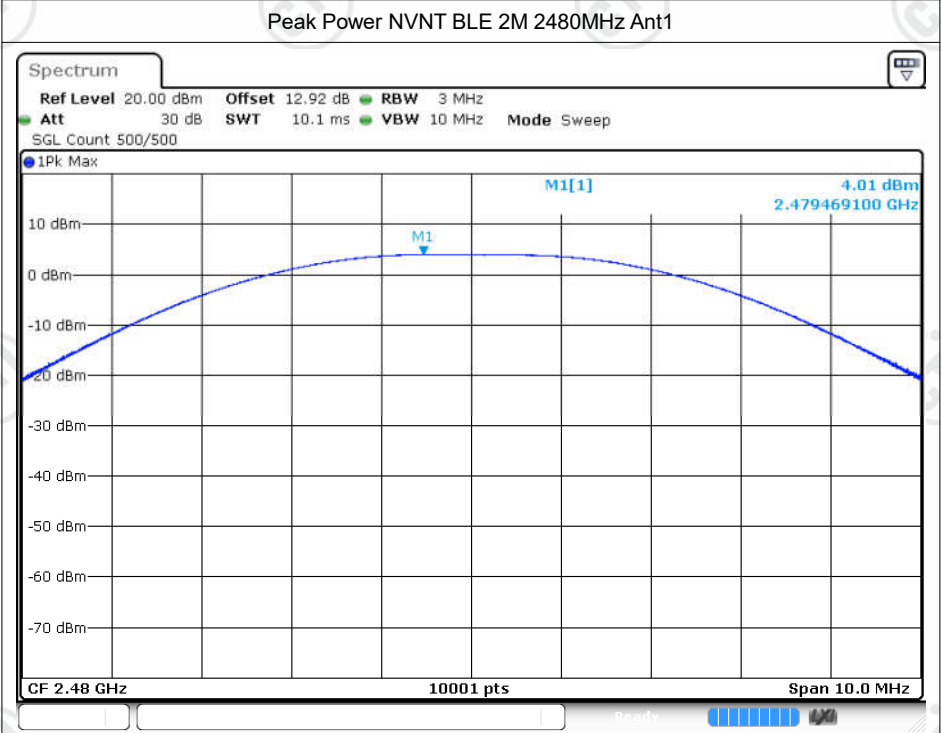
Date: 14.APR.2023 14:58:35



Date: 14.APR.2023 15:00:21



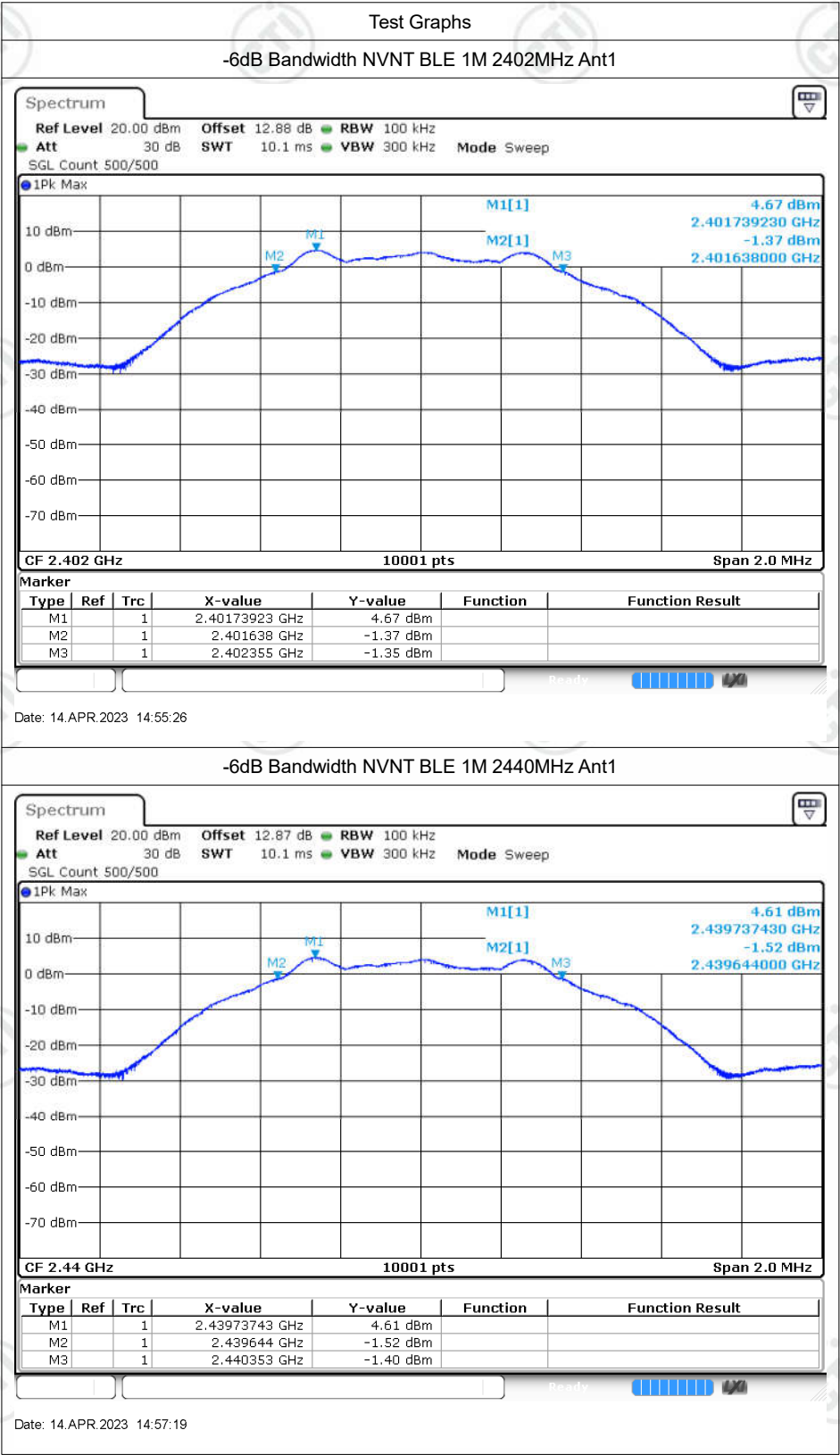
Date: 14.APR.2023 15:03:01

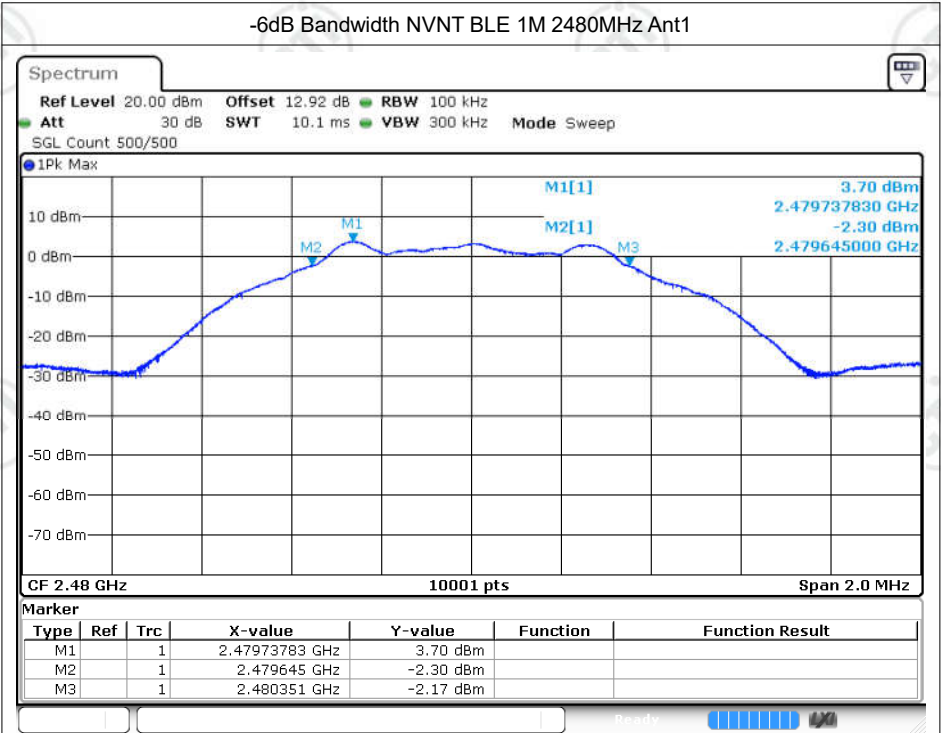


Date: 14.APR.2023 15:05:28

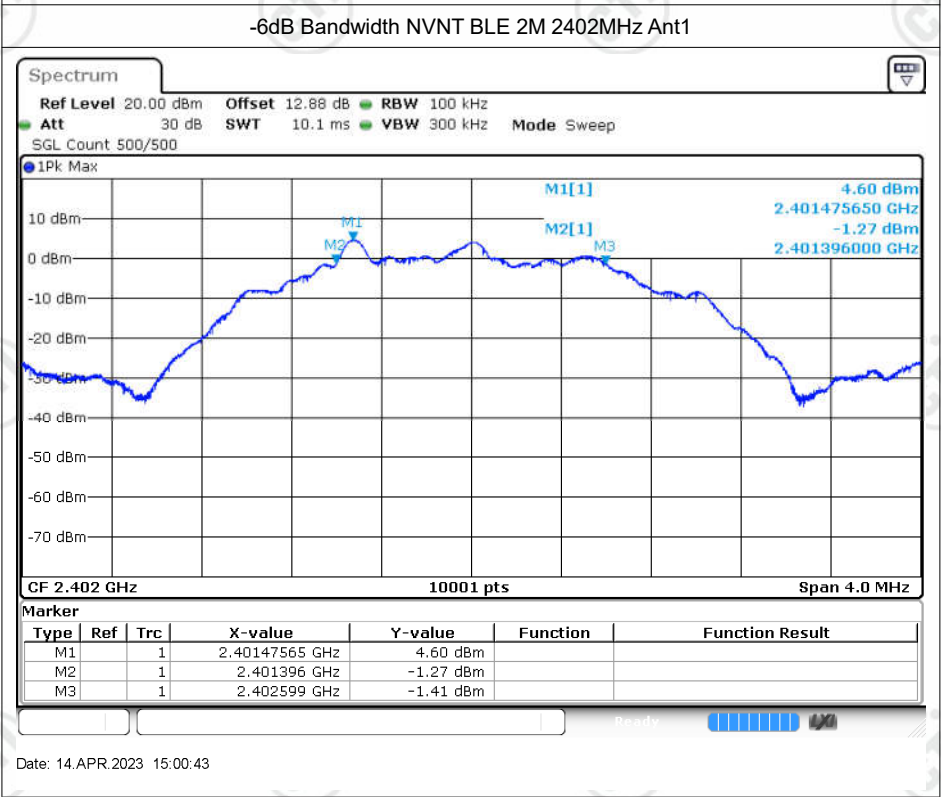
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.716	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.709	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.706	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.204	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.257	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.249	0.5	Pass

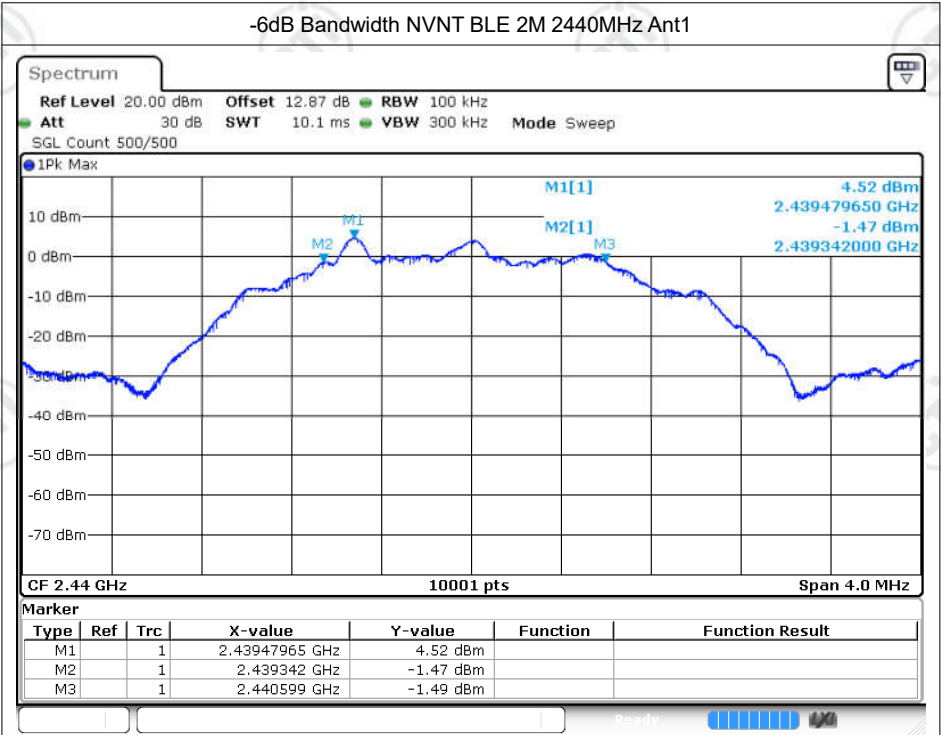




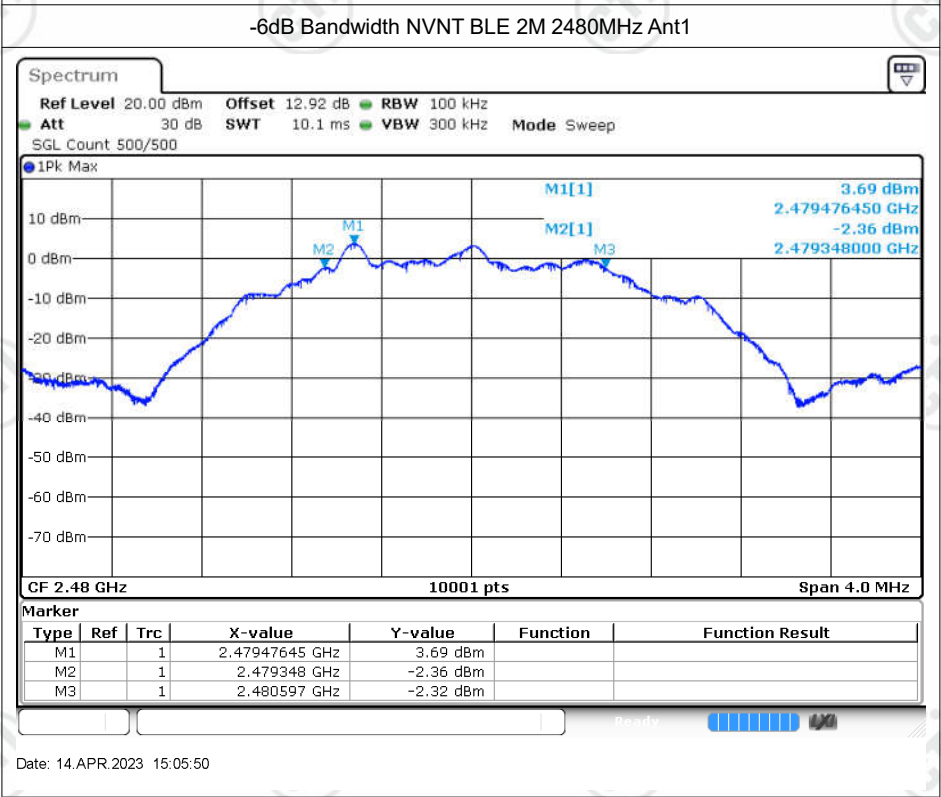
Date: 14.APR.2023 14:58:58



Date: 14.APR.2023 15:00:43



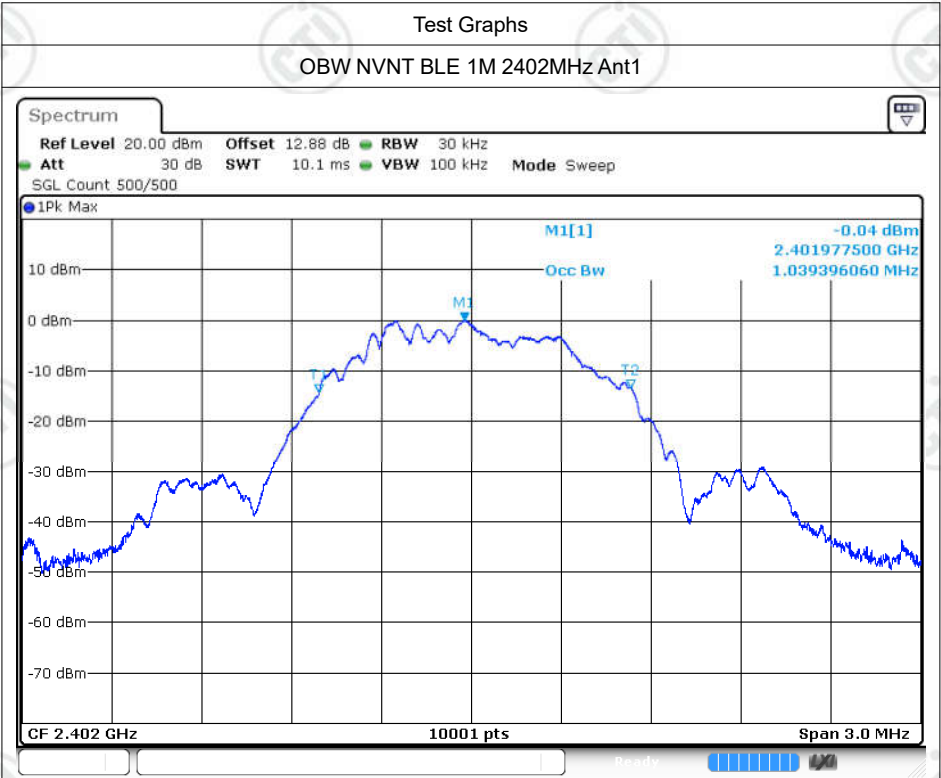
Date: 14.APR.2023 15:03:24



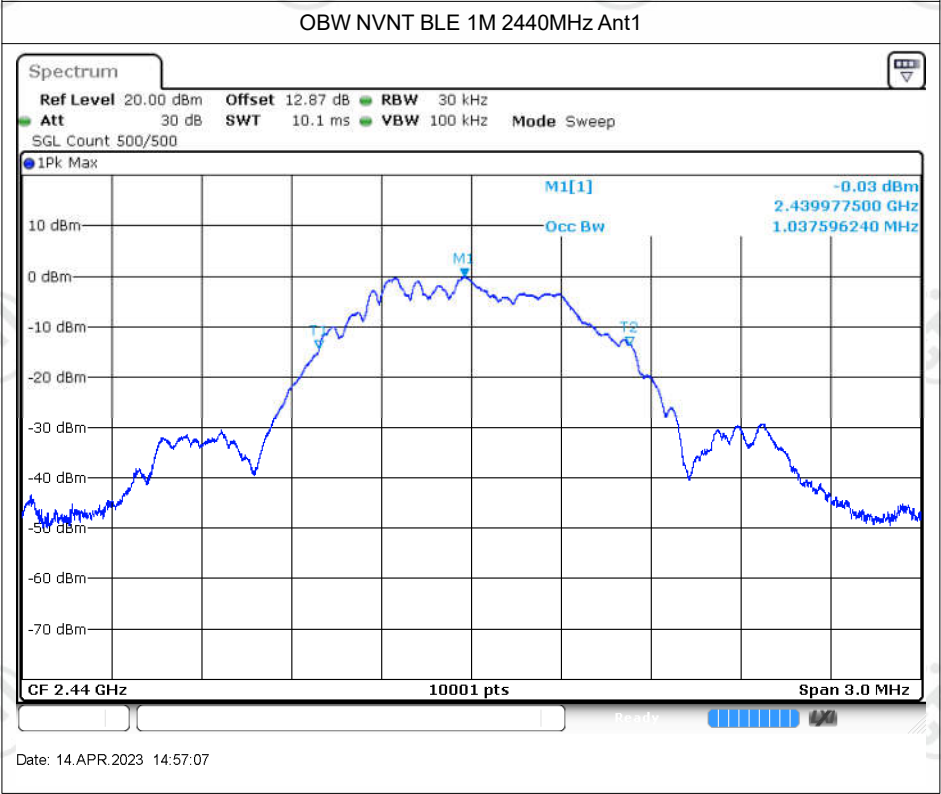
Date: 14.APR.2023 15:05:50

Occupied Channel Bandwidth

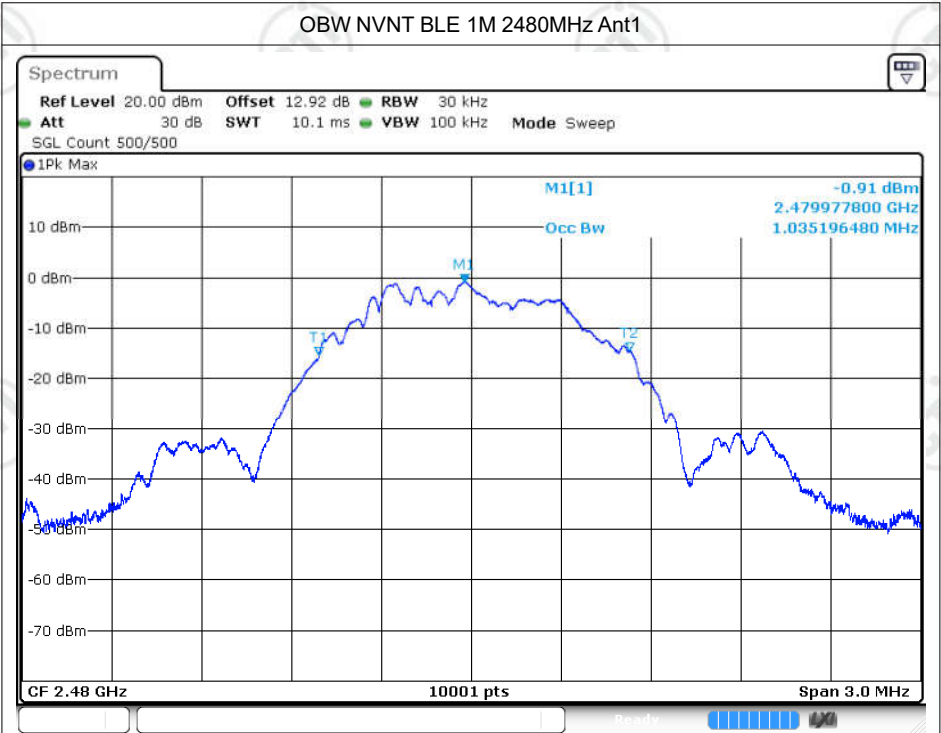
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.039
NVNT	BLE 1M	2440	Ant1	1.038
NVNT	BLE 1M	2480	Ant1	1.035
NVNT	BLE 2M	2402	Ant1	2.056
NVNT	BLE 2M	2440	Ant1	2.056
NVNT	BLE 2M	2480	Ant1	2.053



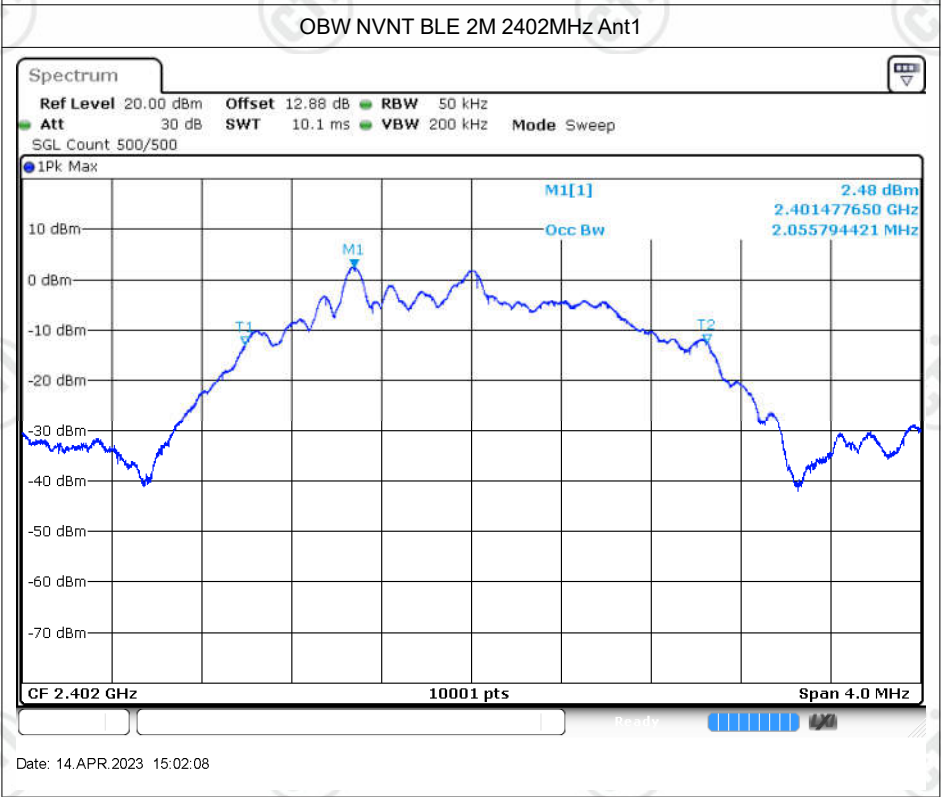
Date: 14.APR.2023 14:55:15



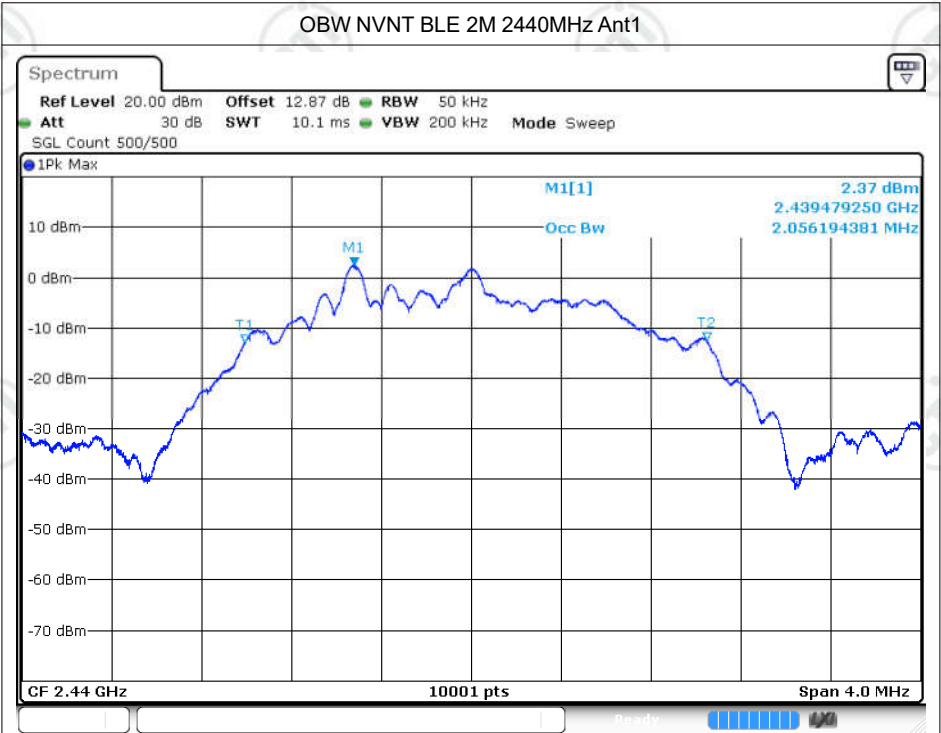
Date: 14.APR.2023 14:57:07



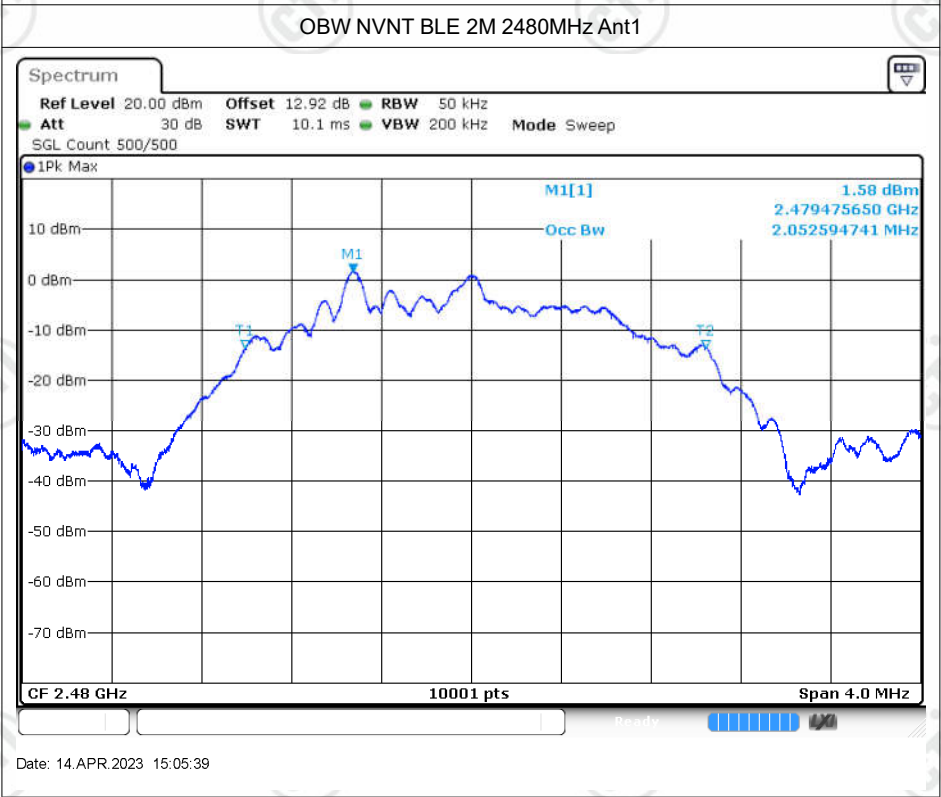
Date: 14.APR.2023 14:58:47



Date: 14.APR.2023 15:02:08



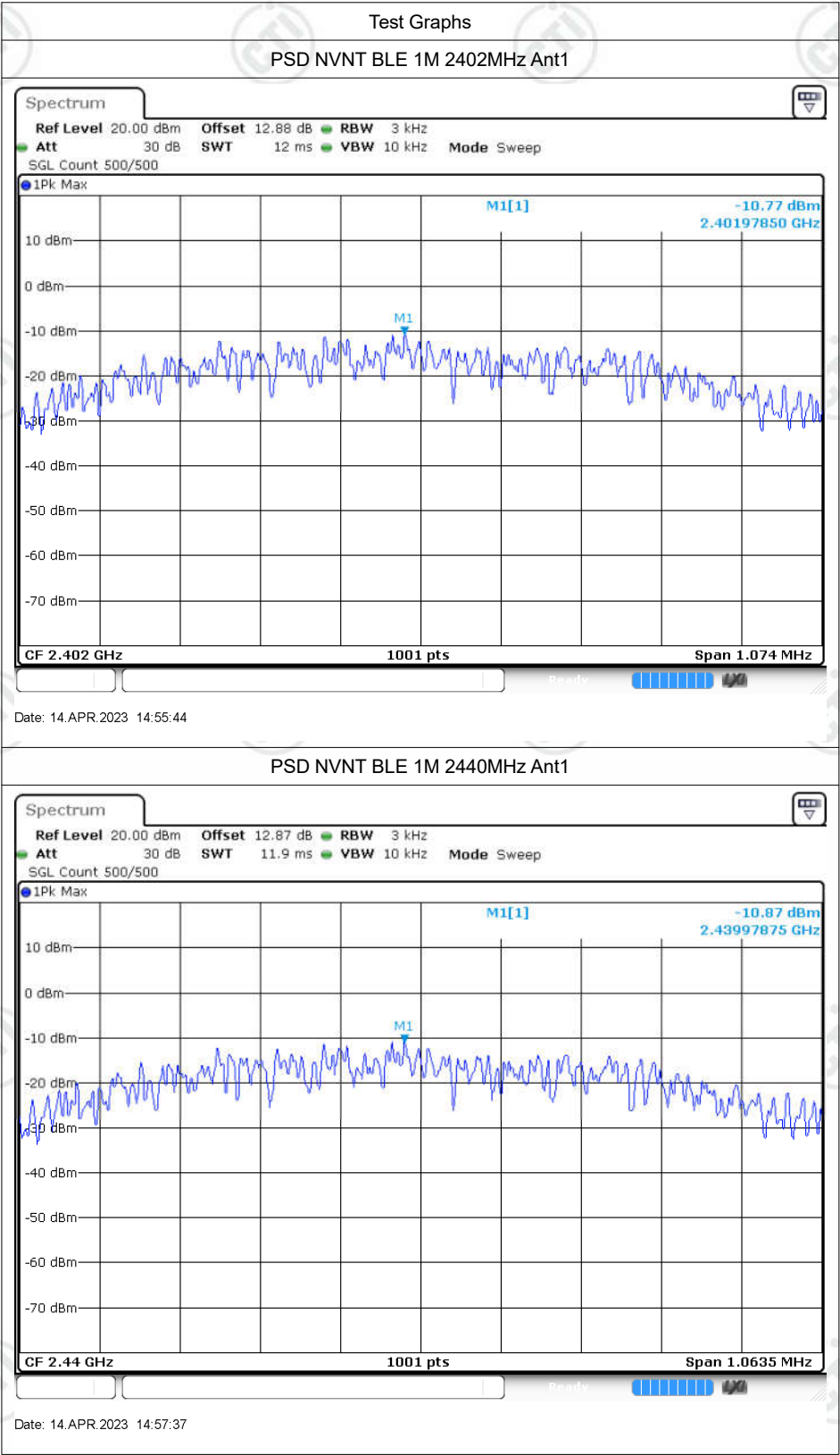
Date: 14.APR.2023 15:03:12

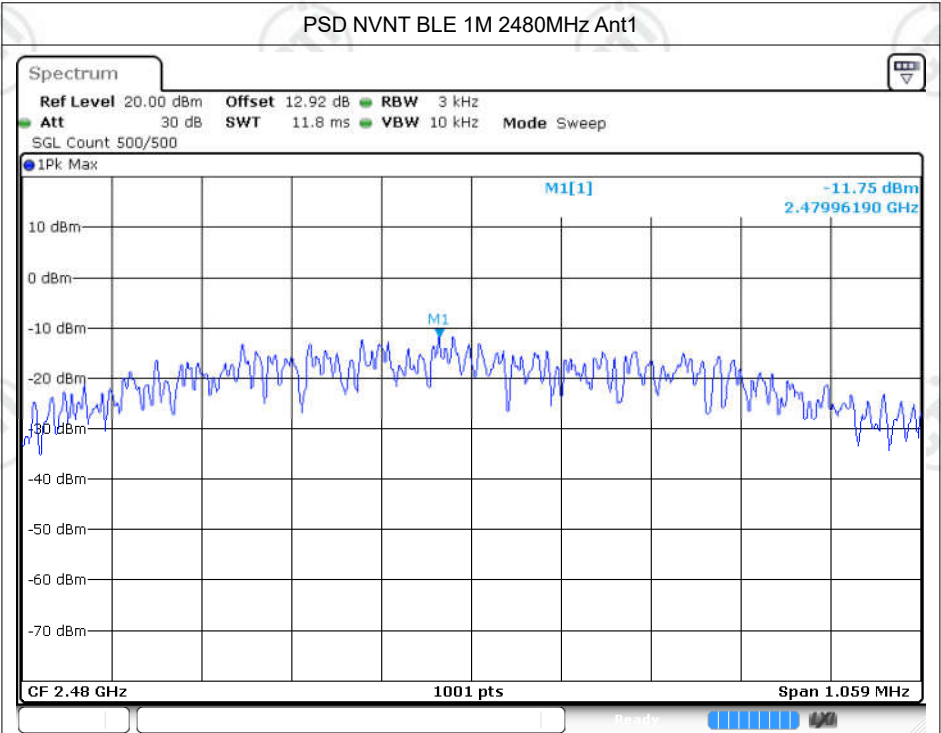


Date: 14.APR.2023 15:05:39

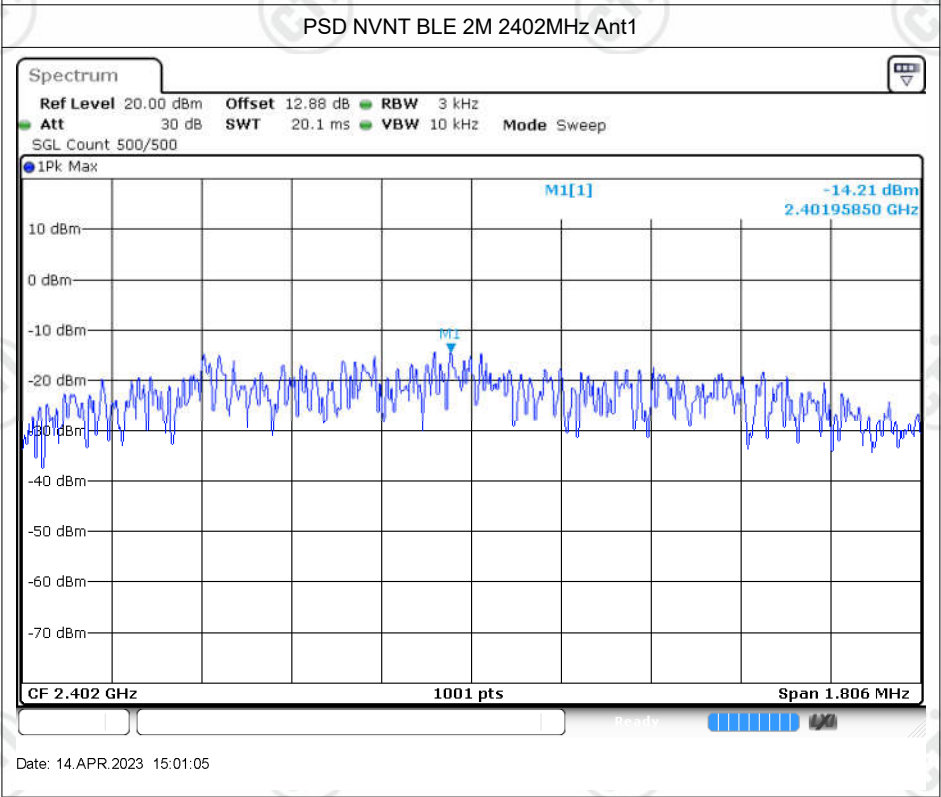
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-10.77	8	Pass
NVNT	BLE 1M	2440	Ant1	-10.87	8	Pass
NVNT	BLE 1M	2480	Ant1	-11.75	8	Pass
NVNT	BLE 2M	2402	Ant1	-14.21	8	Pass
NVNT	BLE 2M	2440	Ant1	-14.23	8	Pass
NVNT	BLE 2M	2480	Ant1	-15.14	8	Pass

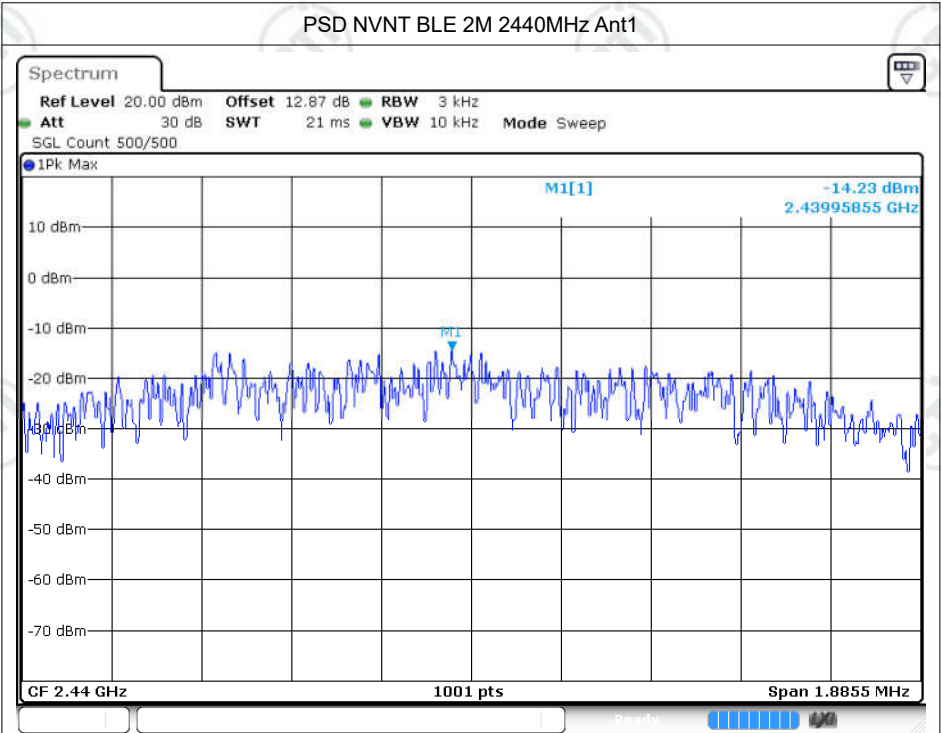




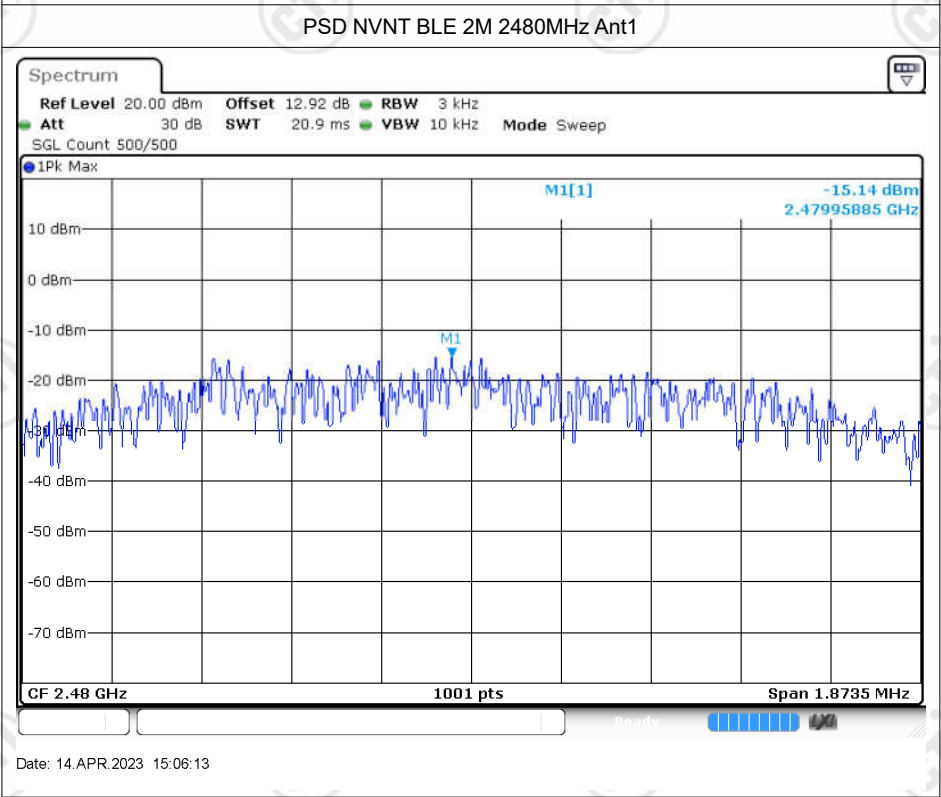
Date: 14.APR.2023 14:59:16



Date: 14.APR.2023 15:01:05



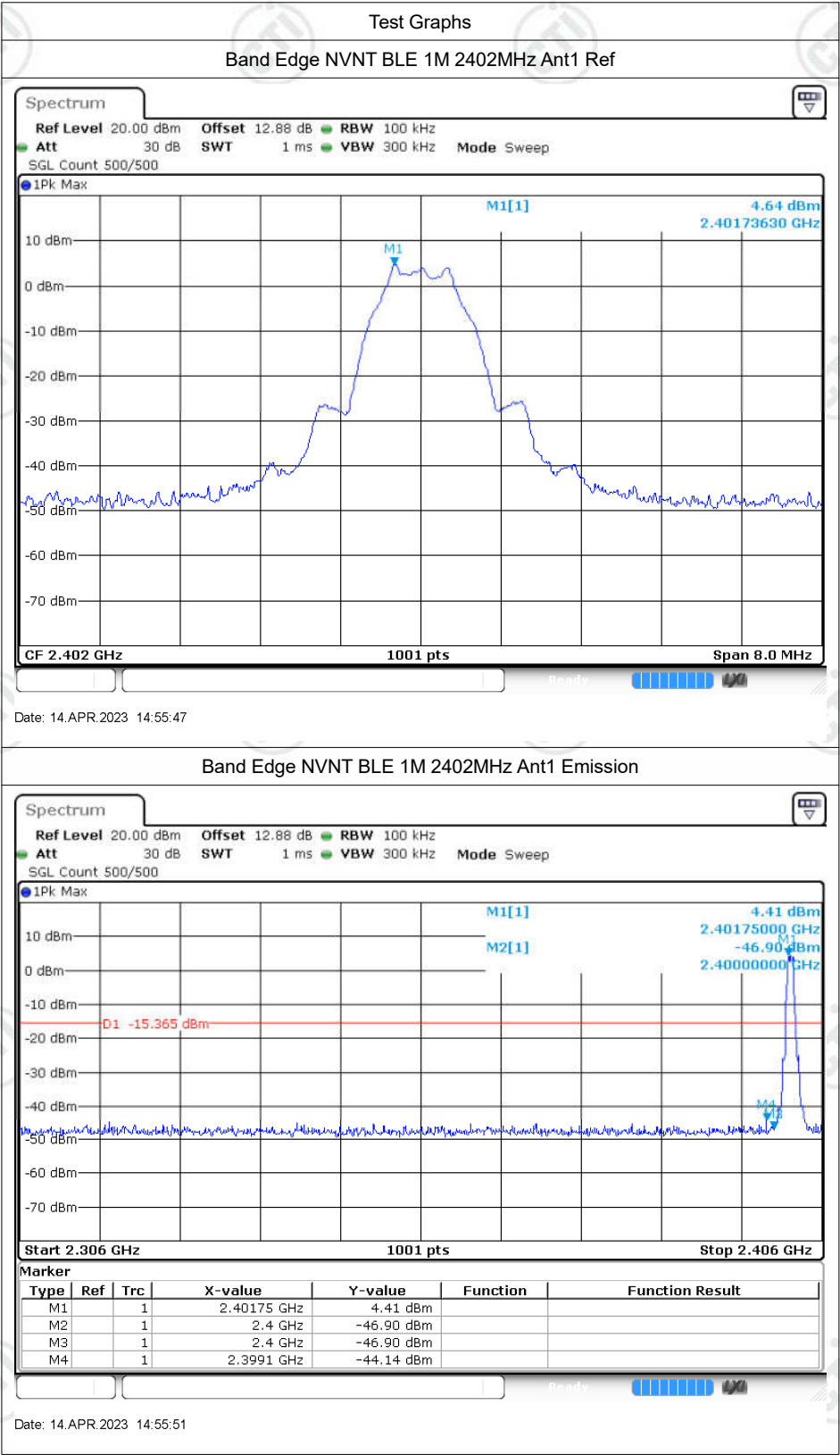
Date: 14.APR.2023 15:03:46

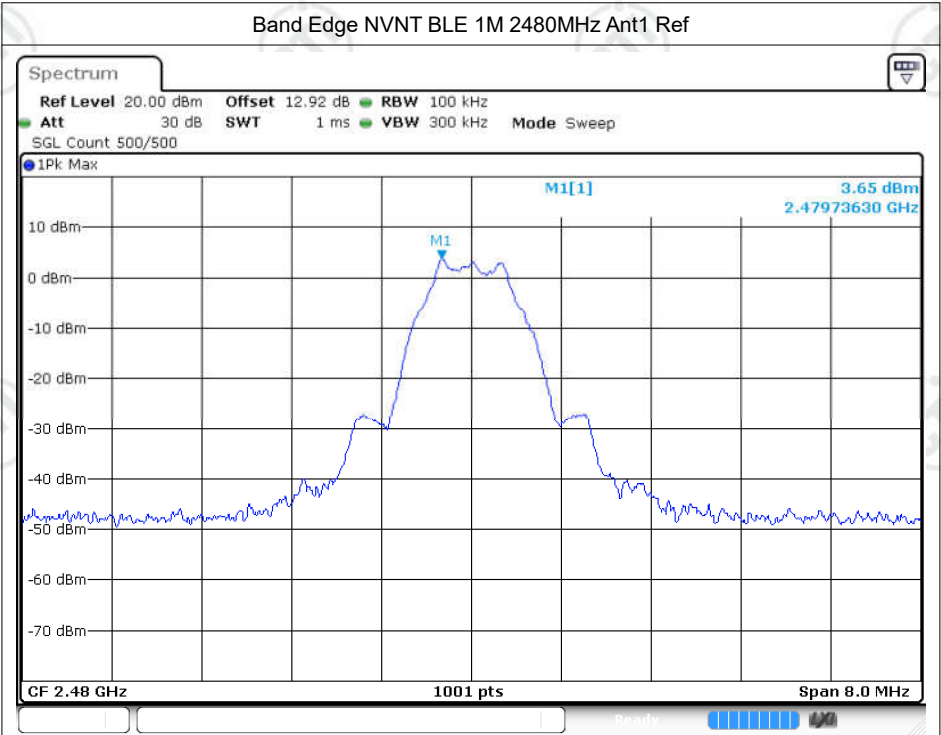


Date: 14.APR.2023 15:06:13

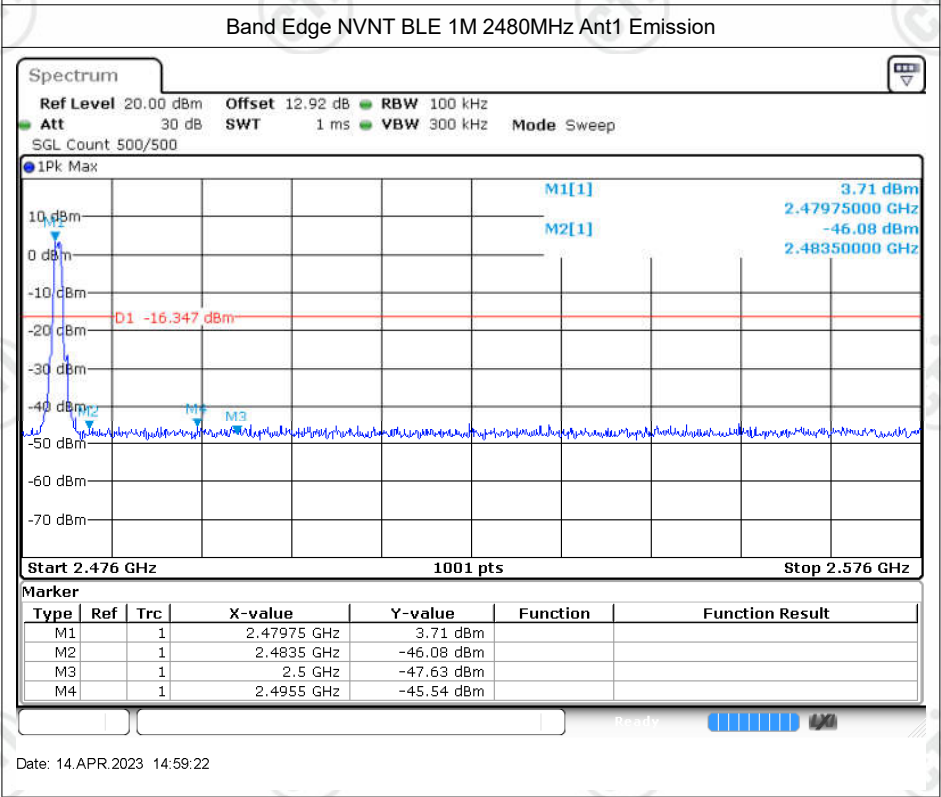
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-48.77	-20	Pass
NVNT	BLE 1M	2480	Ant1	-49.18	-20	Pass
NVNT	BLE 2M	2402	Ant1	-33.42	-20	Pass
NVNT	BLE 2M	2480	Ant1	-48.49	-20	Pass

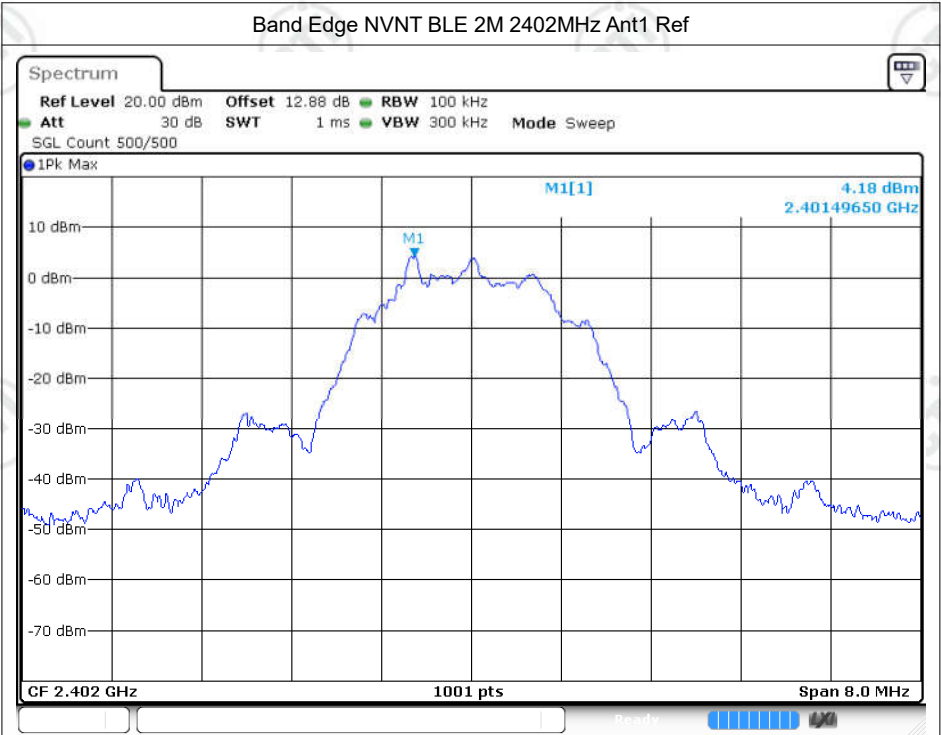




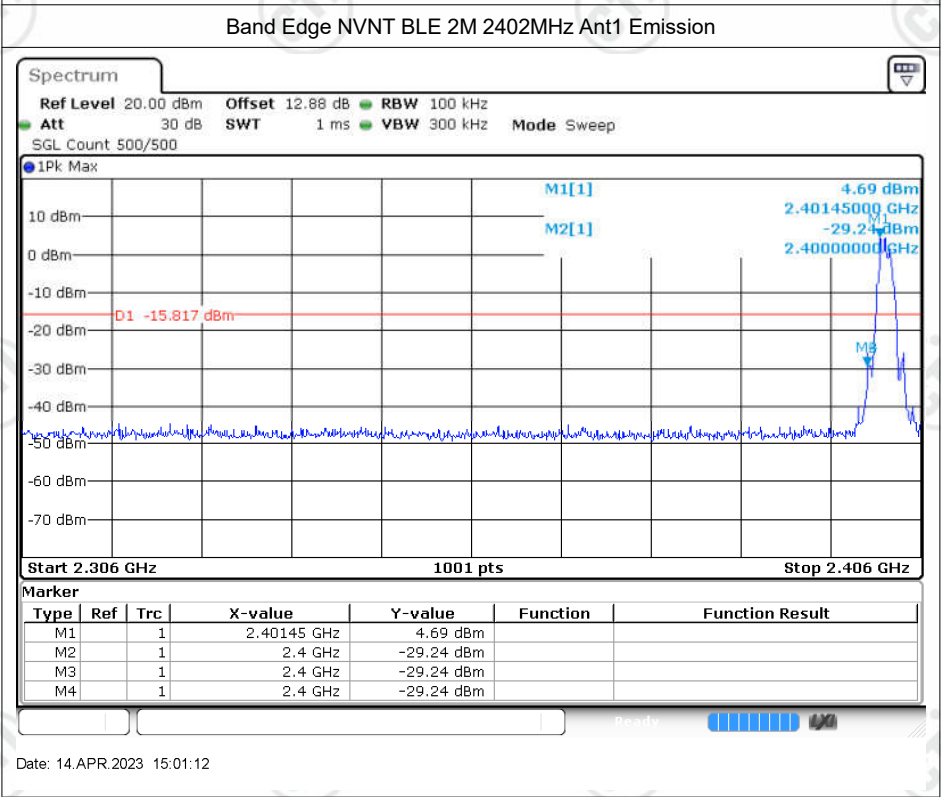
Date: 14.APR.2023 14:59:19



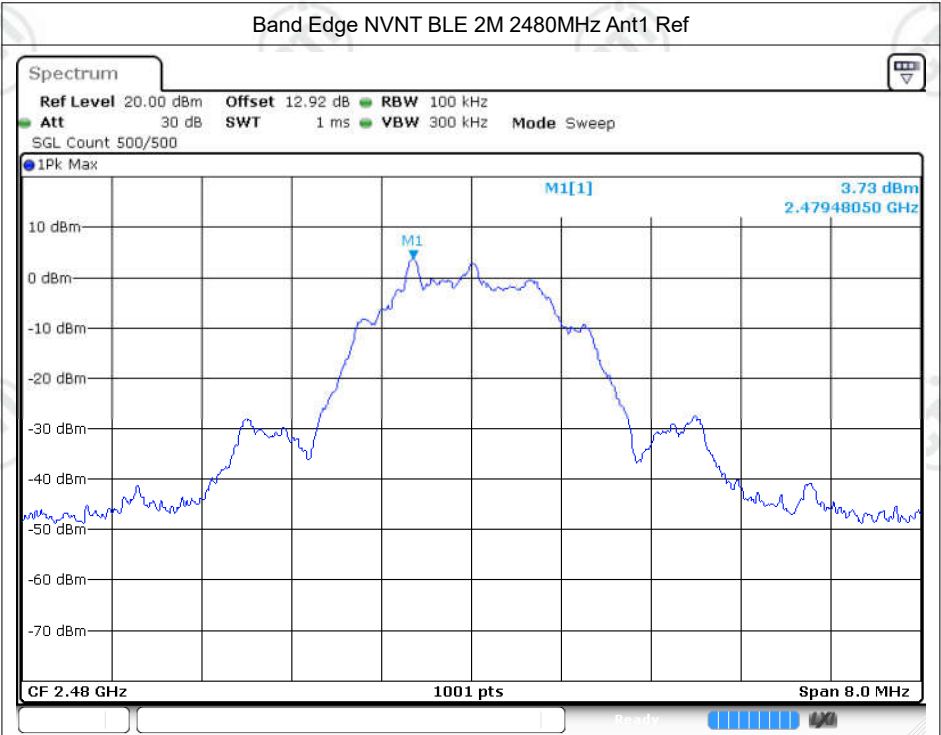
Date: 14.APR.2023 14:59:22



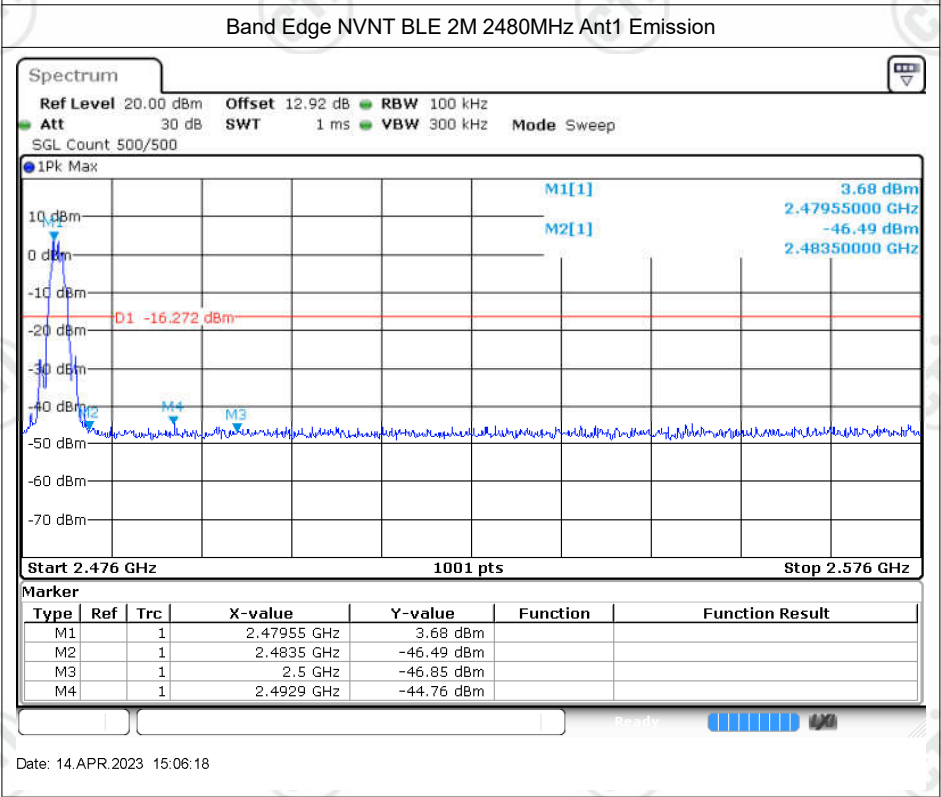
Date: 14.APR.2023 15:01:09



Date: 14.APR.2023 15:01:12



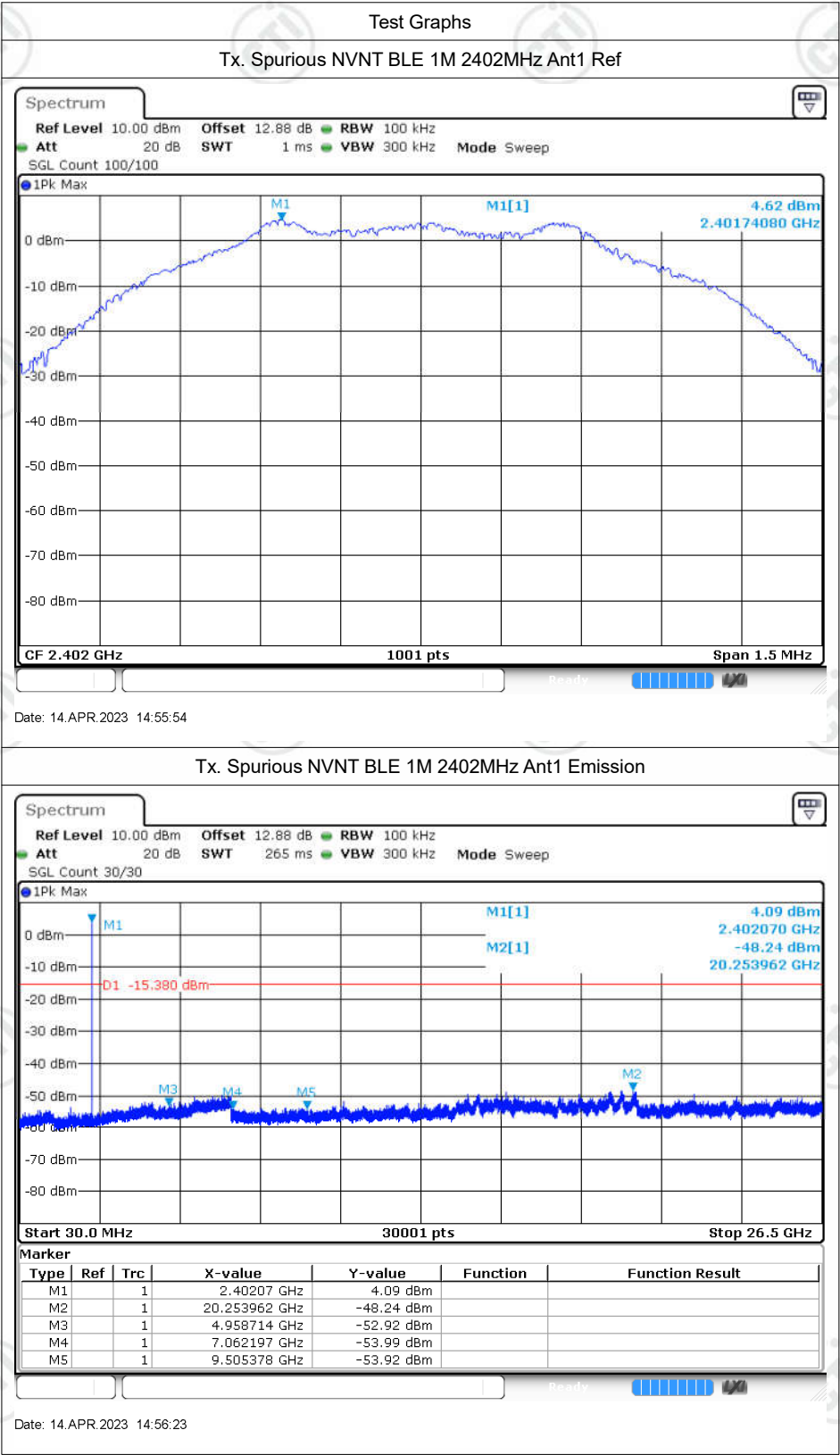
Date: 14.APR.2023 15:06:16

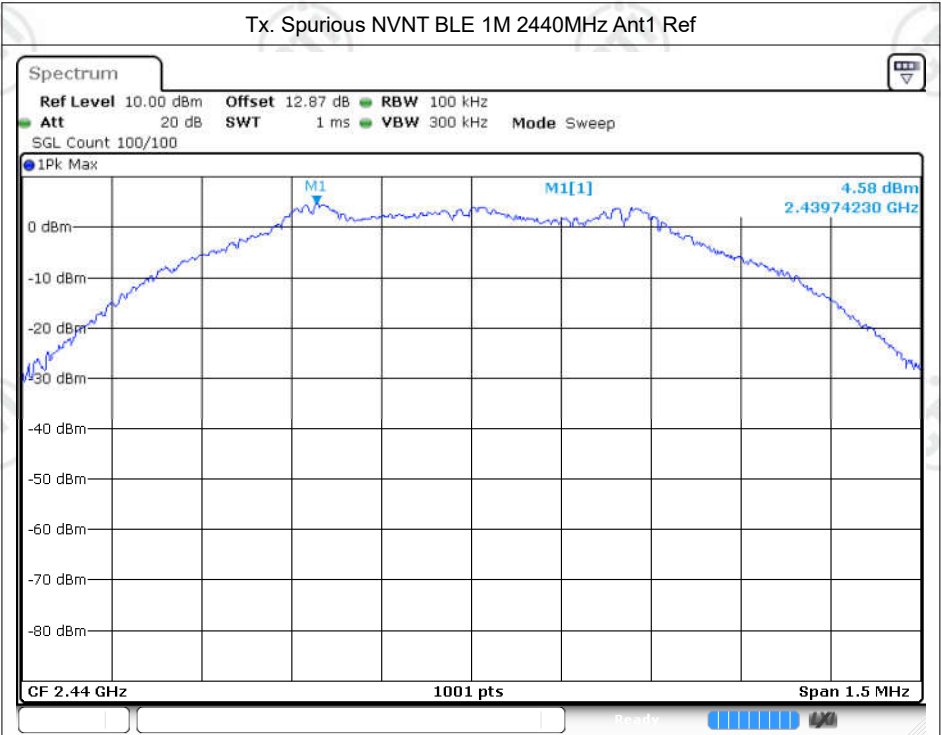


Date: 14.APR.2023 15:06:18

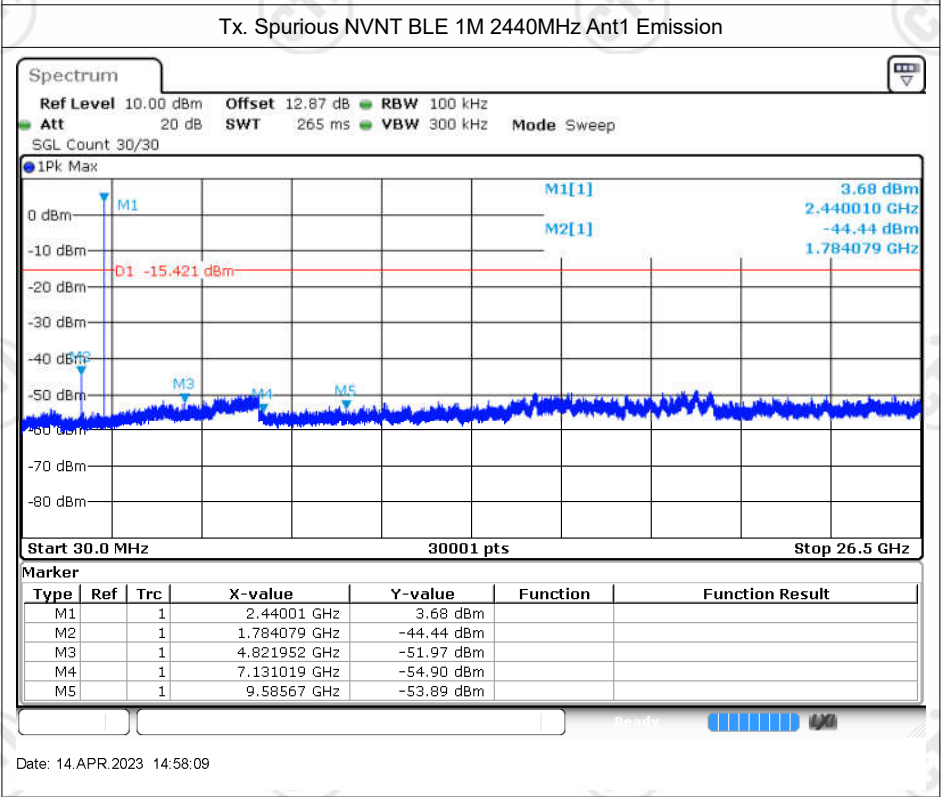
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.86	-20	Pass
NVNT	BLE 1M	2440	Ant1	-49.02	-20	Pass
NVNT	BLE 1M	2480	Ant1	-51.83	-20	Pass
NVNT	BLE 2M	2402	Ant1	-38.88	-20	Pass
NVNT	BLE 2M	2440	Ant1	-49.53	-20	Pass
NVNT	BLE 2M	2480	Ant1	-51.46	-20	Pass

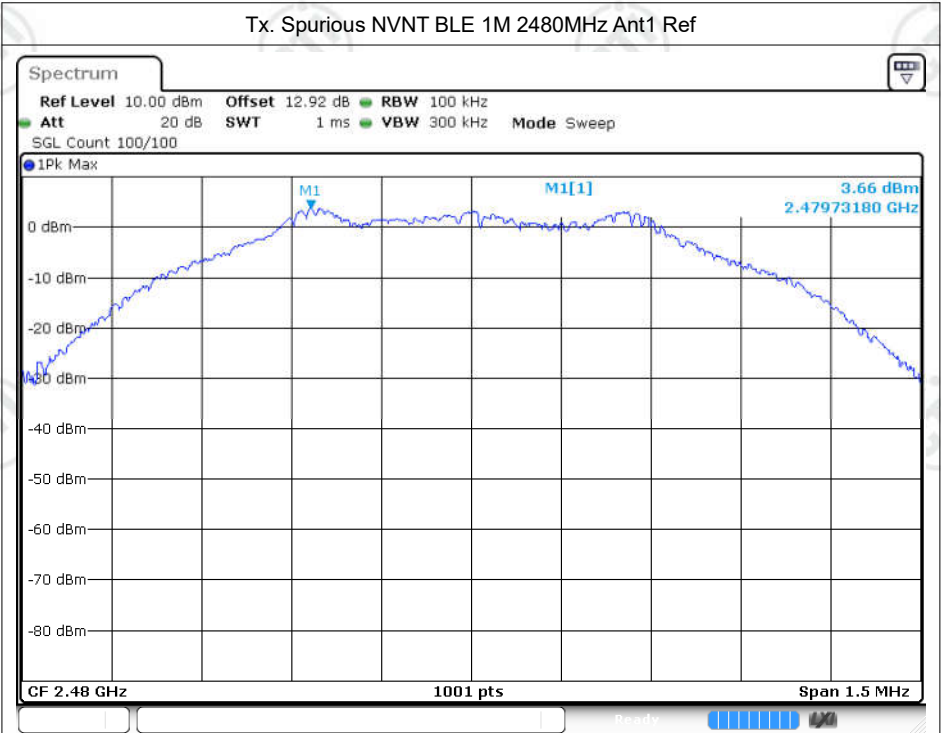




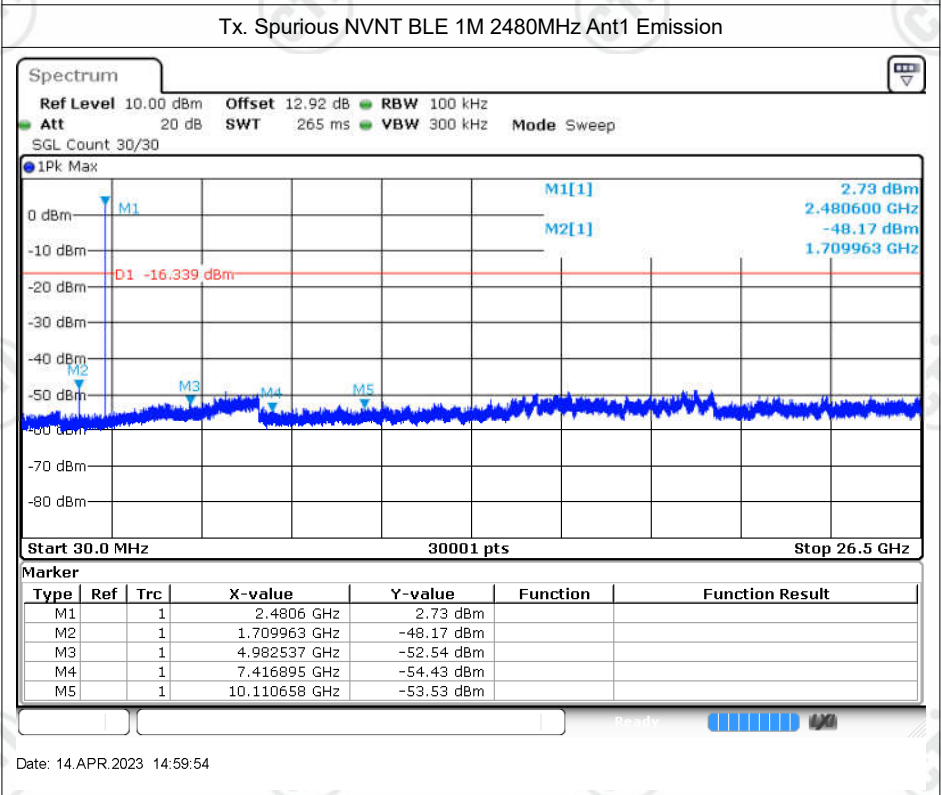
Date: 14.APR.2023 14:57:39



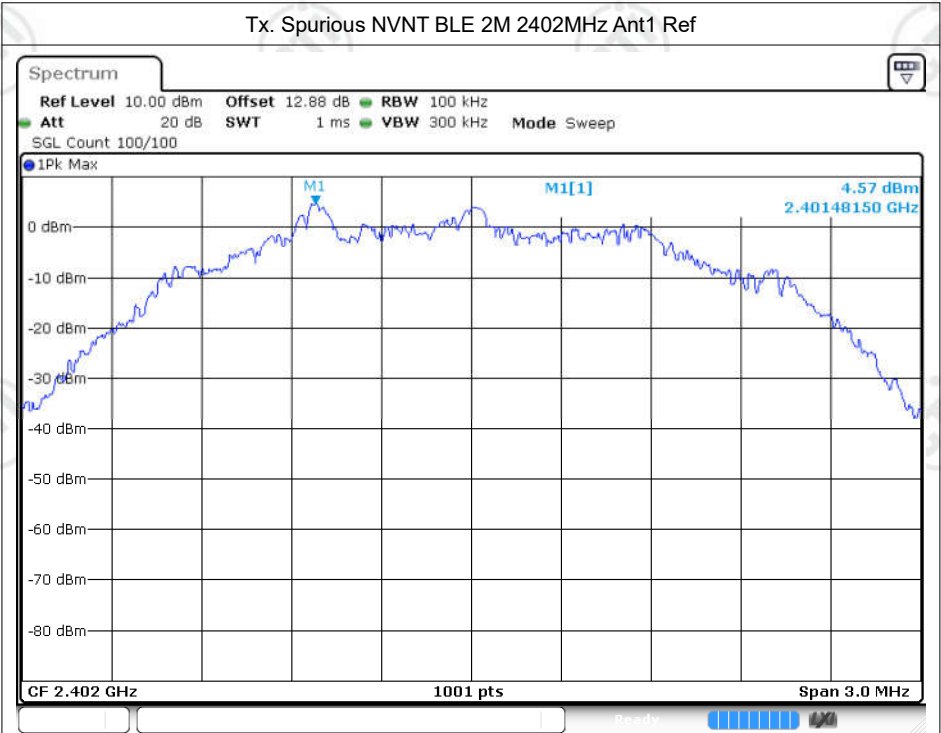
Date: 14.APR.2023 14:58:09



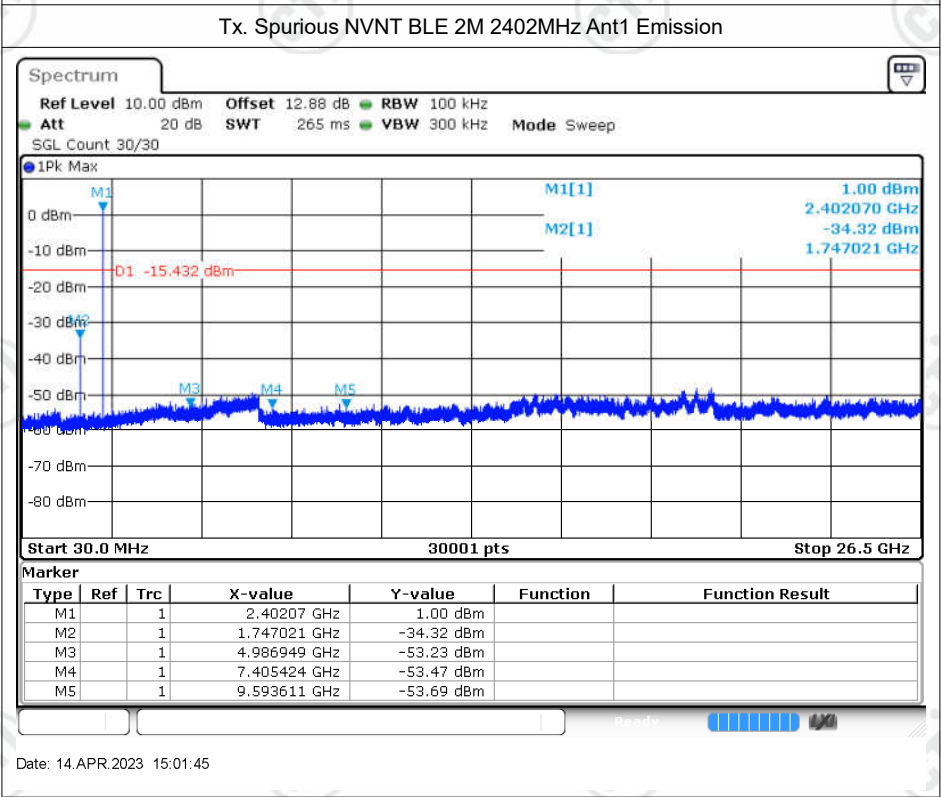
Date: 14.APR.2023 14:59:25

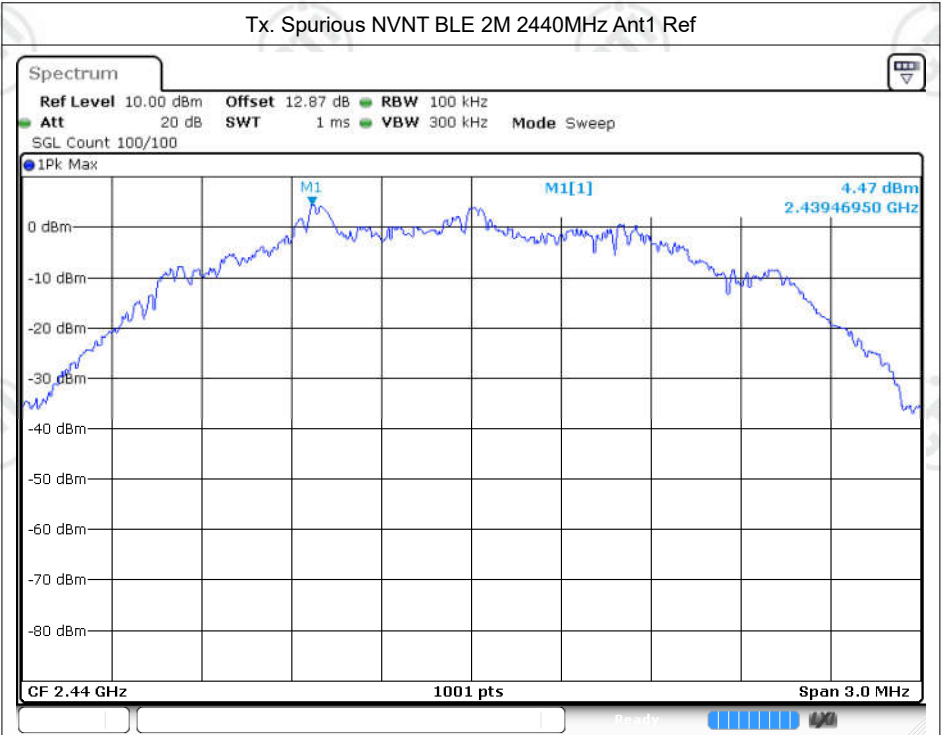


Date: 14.APR.2023 14:59:54

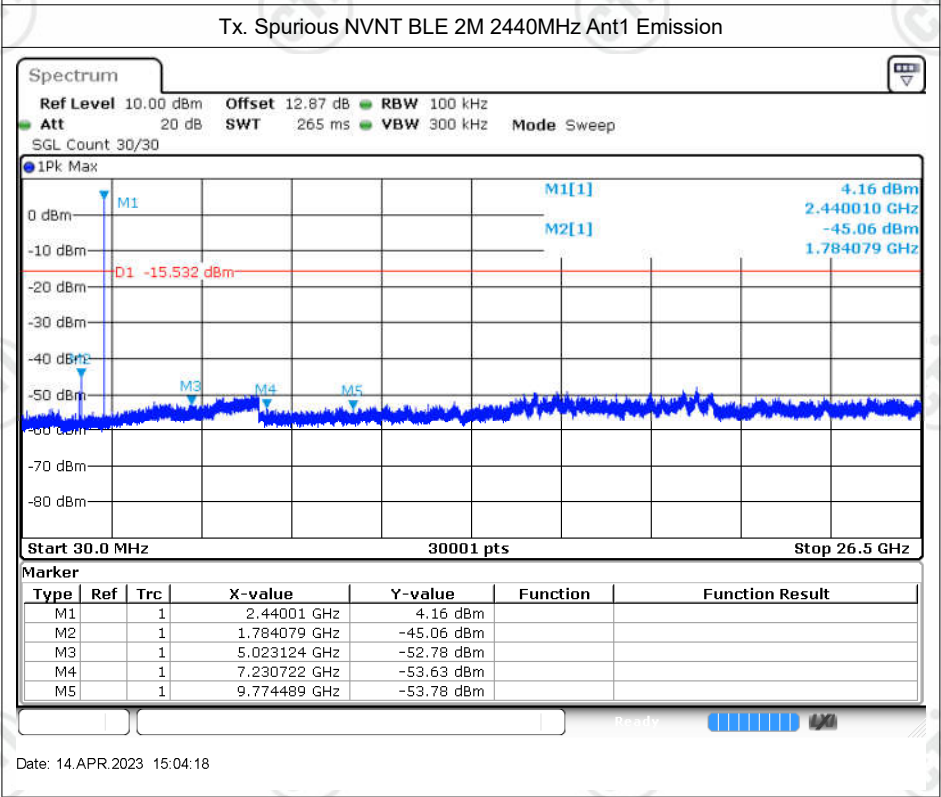


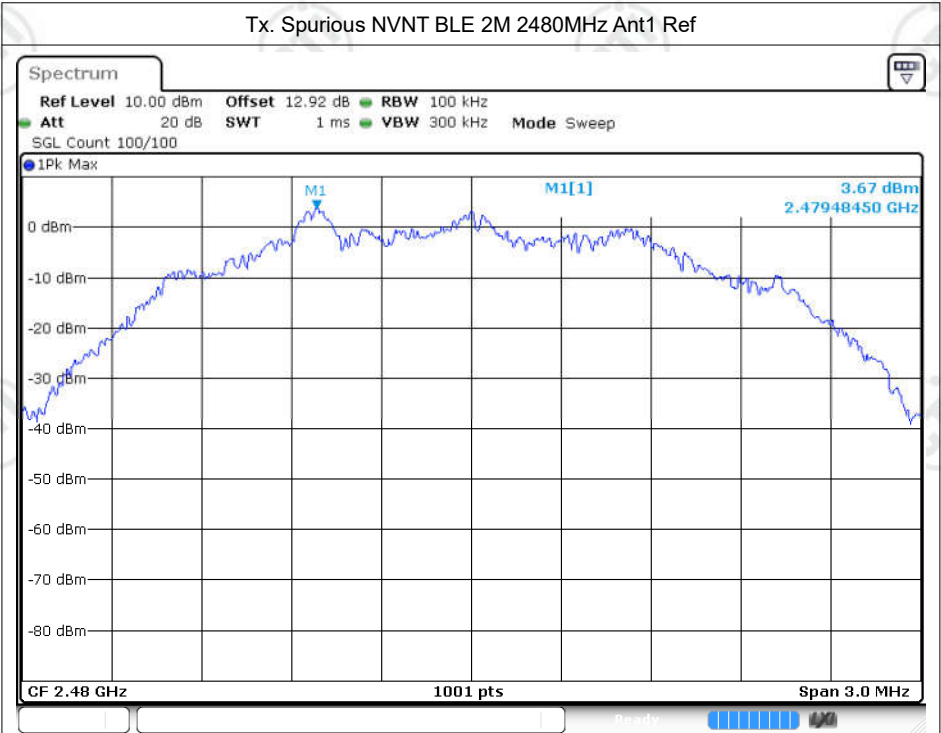
Date: 14.APR.2023 15:01:15



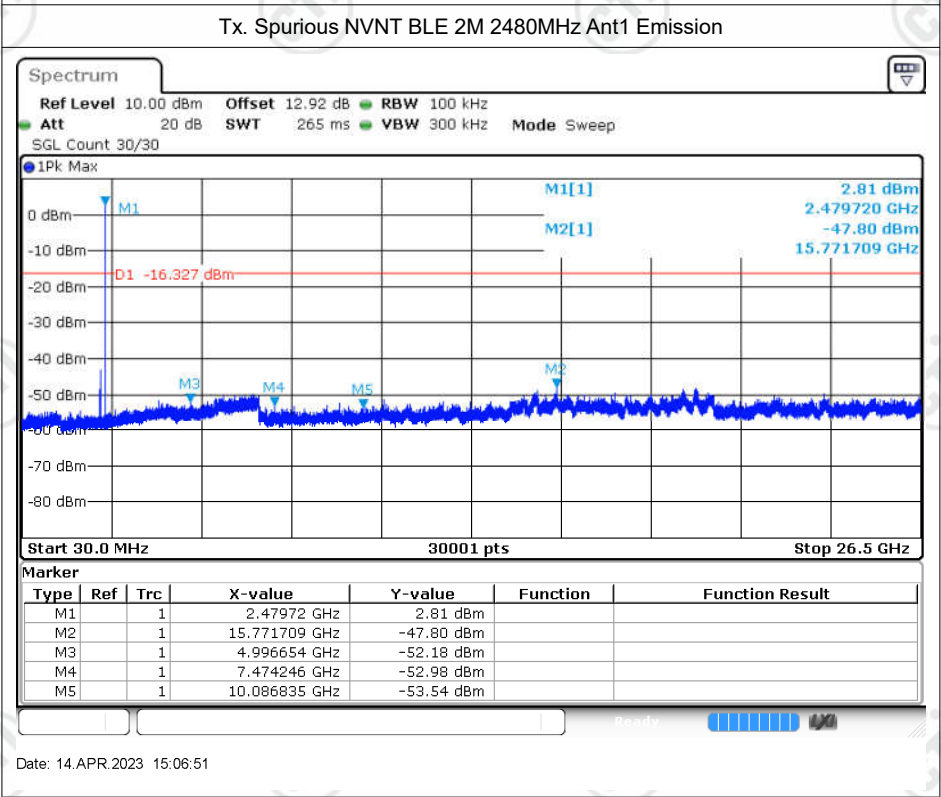


Date: 14.APR.2023 15:03:49





Date: 14.APR.2023 15:06:22



Date: 14.APR.2023 15:06:51

*** End of Report ***