

Appendix: Bluetooth LE

Contents

Contents 2

Duty Cycle 3

Maximum Peak Conducted Output Power 7

-6dB Bandwidth 11

Occupied Channel Bandwidth 15

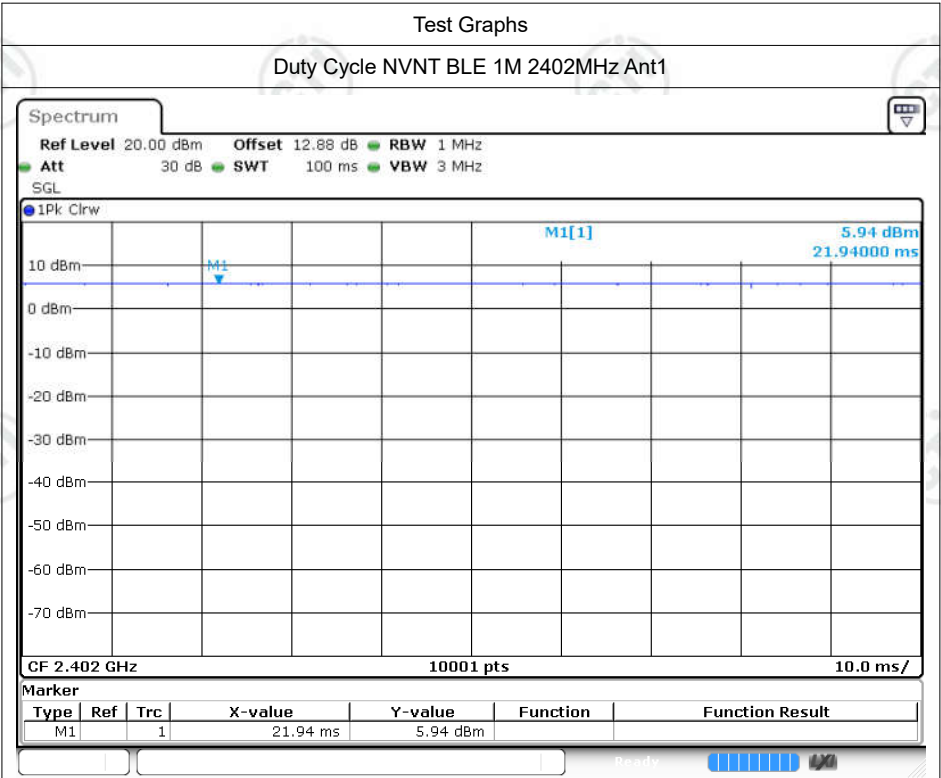
Maximum Power Spectral Density Level 19

Band Edge 23

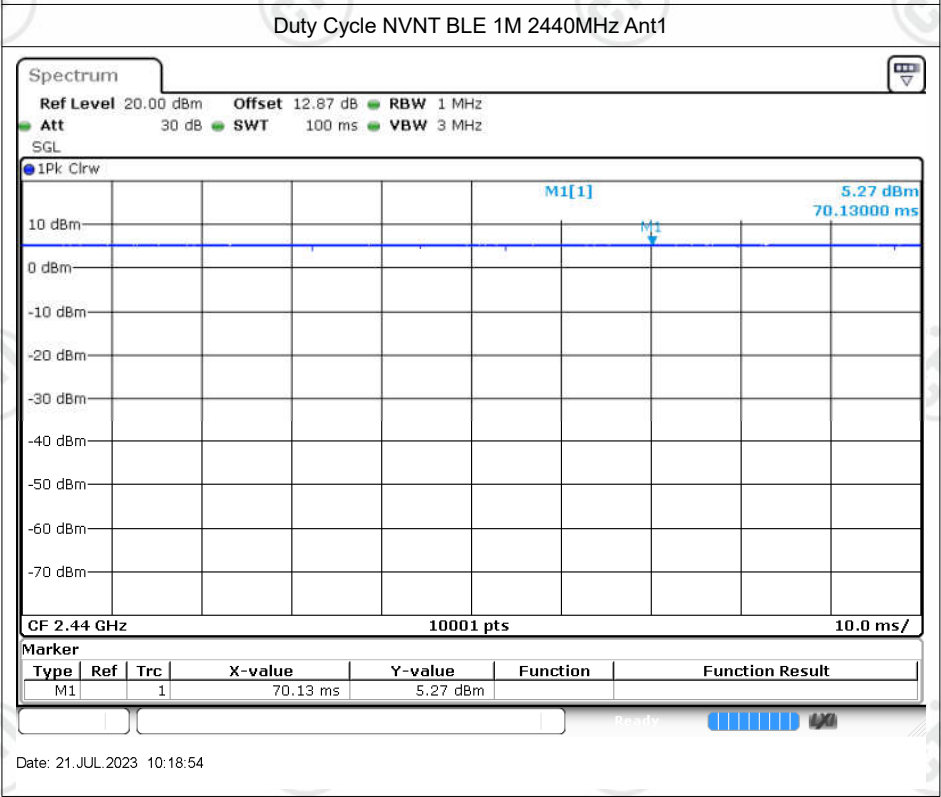
Conducted RF Spurious Emission 28

Duty Cycle

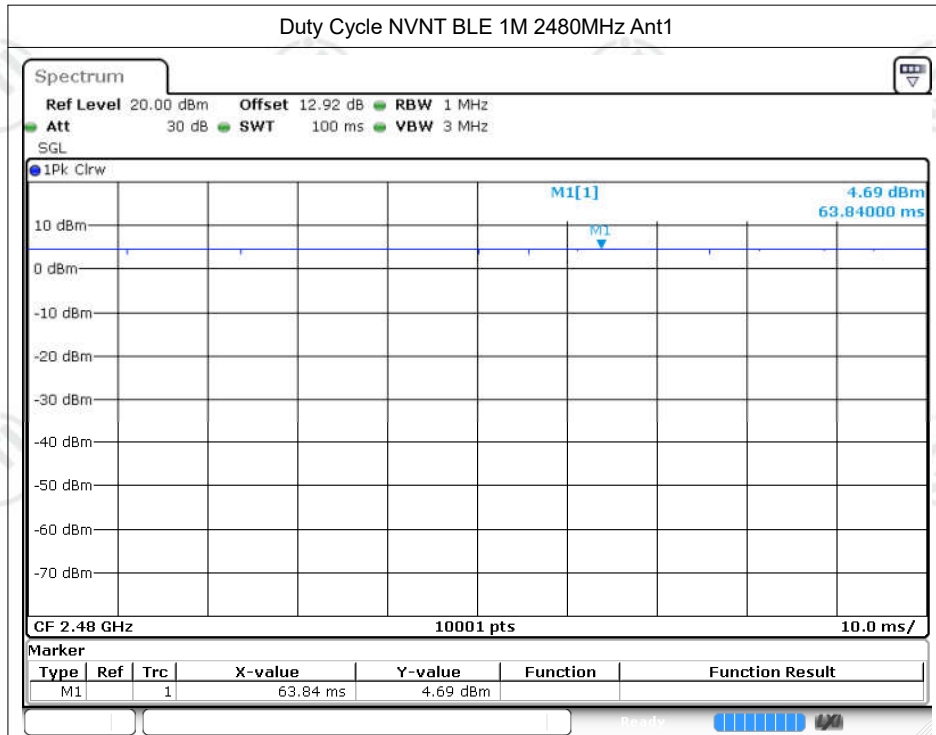
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	100	0	0
NVNT	BLE 1M	2440	Ant1	100	0	0
NVNT	BLE 1M	2480	Ant1	100	0	0
NVNT	BLE 2M	2402	Ant1	100	0	0
NVNT	BLE 2M	2440	Ant1	100	0	0
NVNT	BLE 2M	2480	Ant1	100	0	0



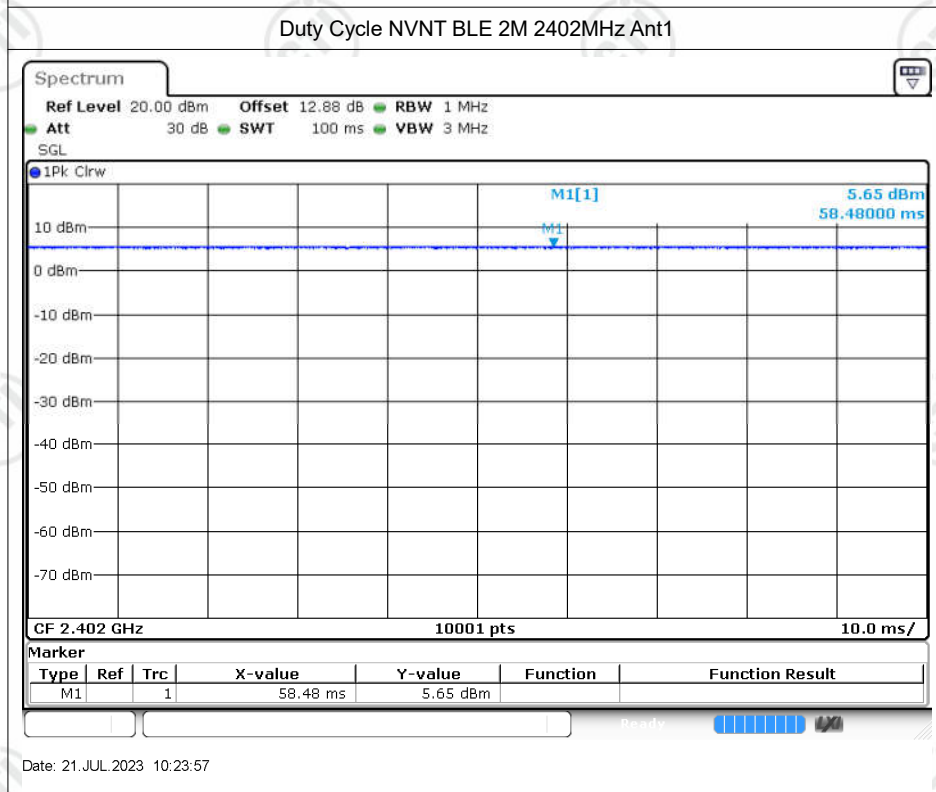
Date: 21.JUL.2023 10:16:32



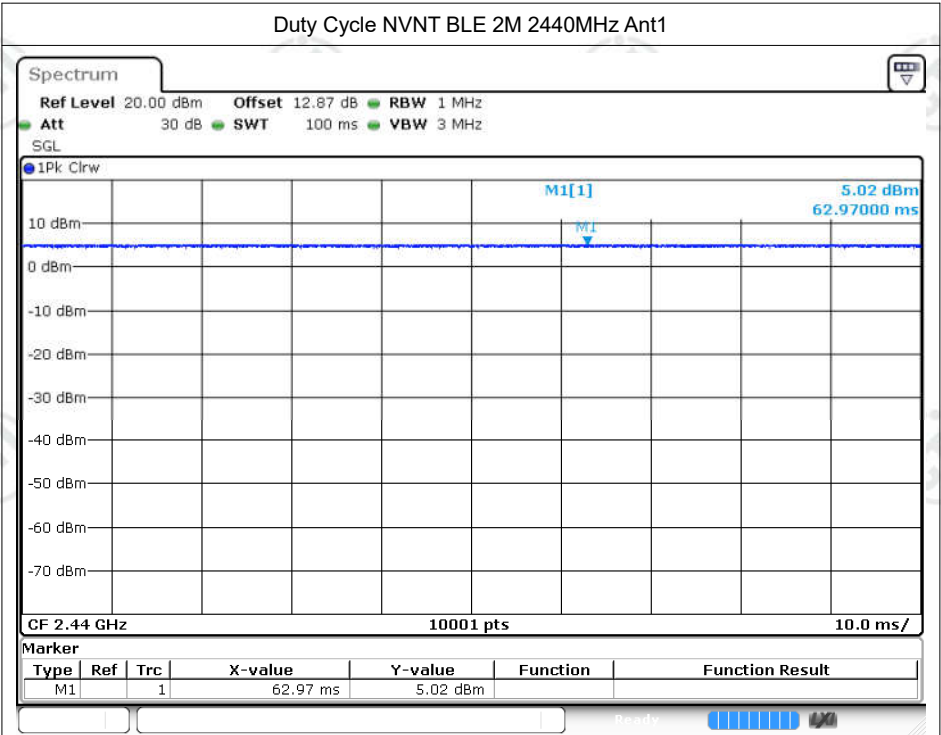
Date: 21.JUL.2023 10:18:54



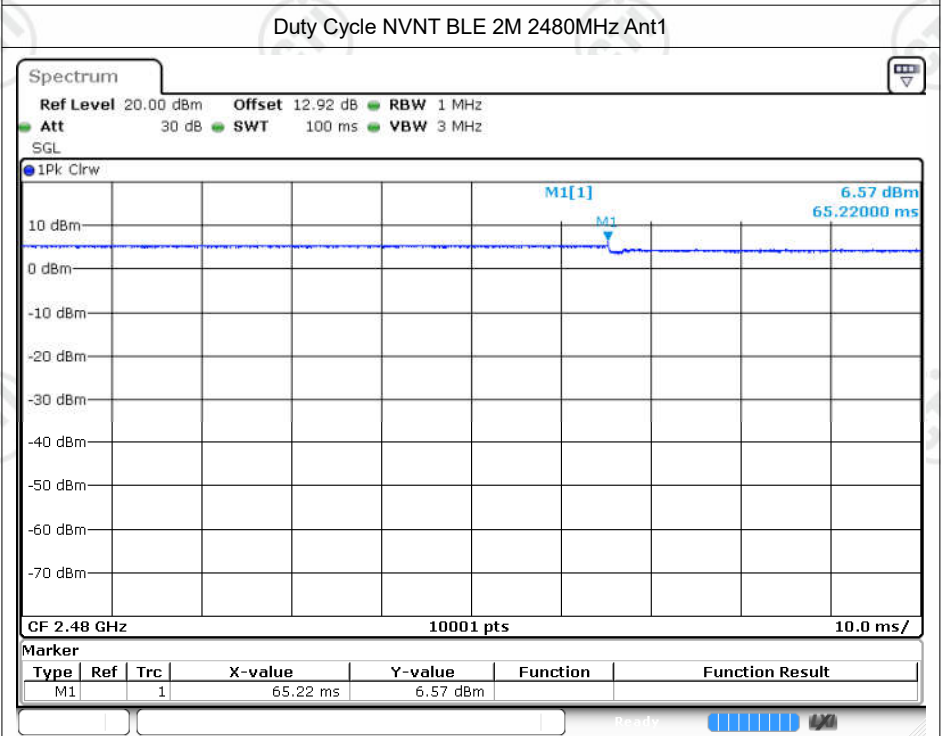
Date: 21.JUL.2023 10:20:37



Date: 21.JUL.2023 10:23:57



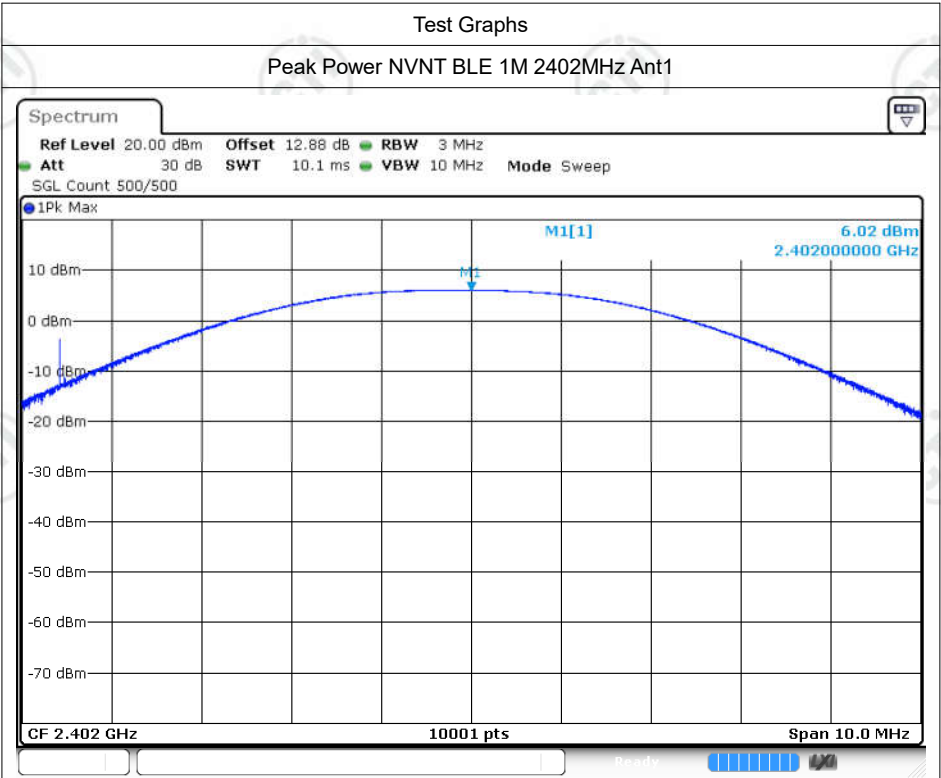
Date: 21.JUL.2023 10:26:07



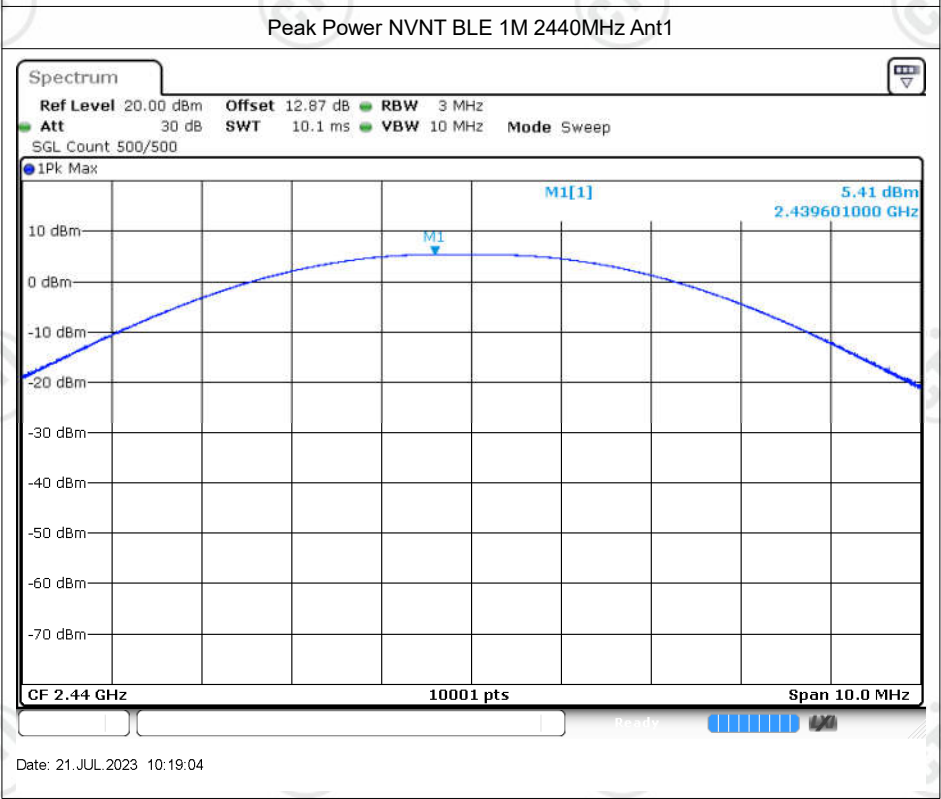
Date: 21.JUL.2023 10:28:06

Maximum Peak Conducted Output Power

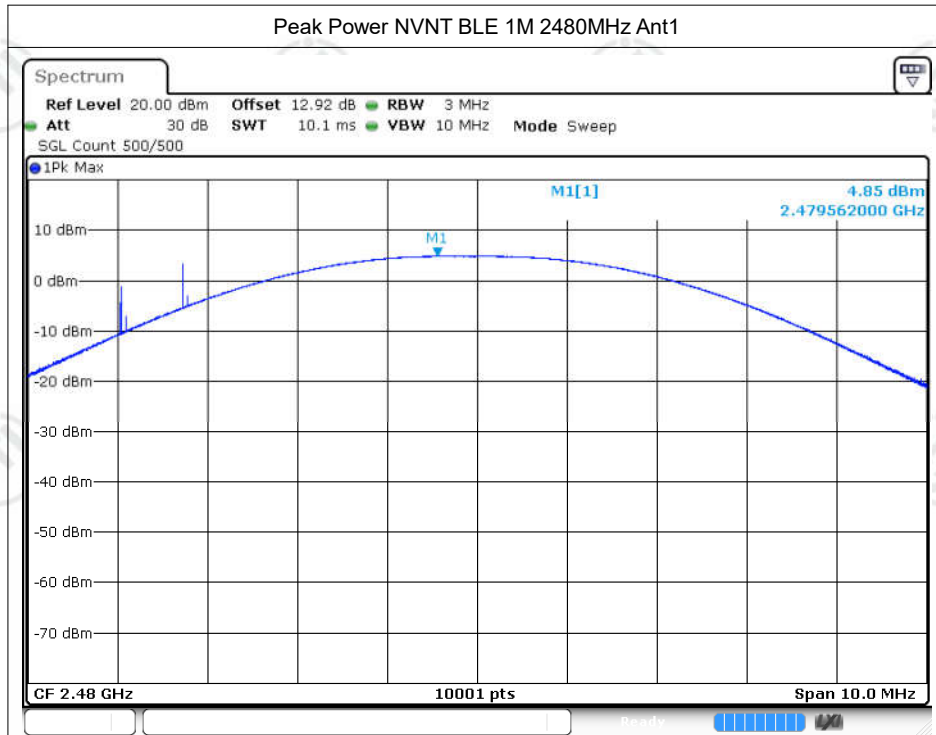
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	6.02	30	Pass
NVNT	BLE 1M	2440	Ant1	5.41	30	Pass
NVNT	BLE 1M	2480	Ant1	4.85	30	Pass
NVNT	BLE 2M	2402	Ant1	6.02	30	Pass
NVNT	BLE 2M	2440	Ant1	5.4	30	Pass
NVNT	BLE 2M	2480	Ant1	4.83	30	Pass



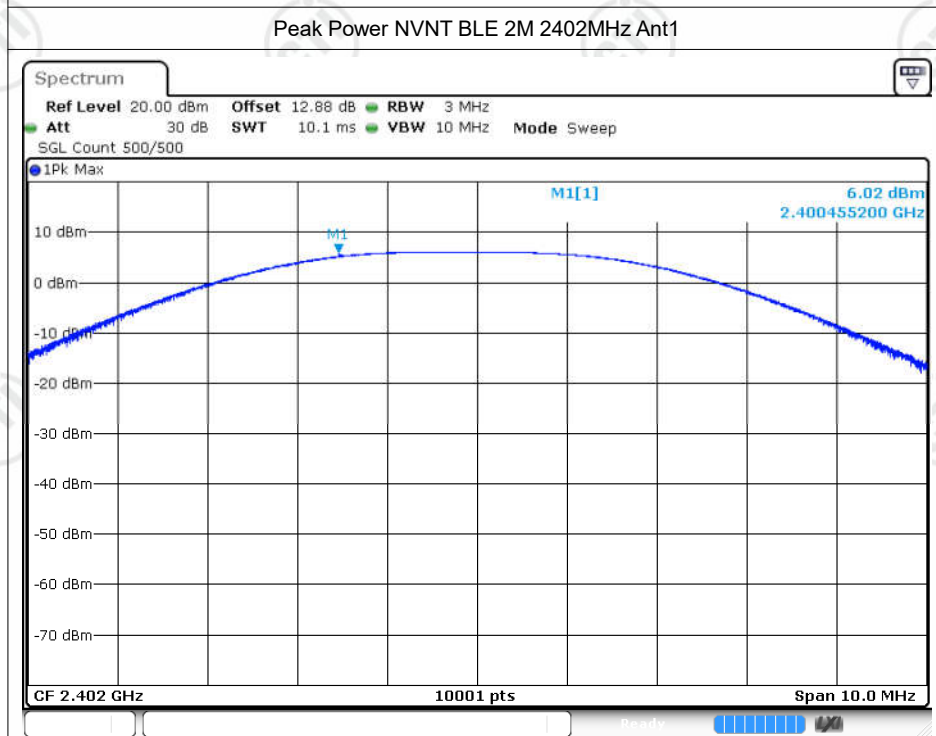
Date: 21.JUL.2023 10:17:05



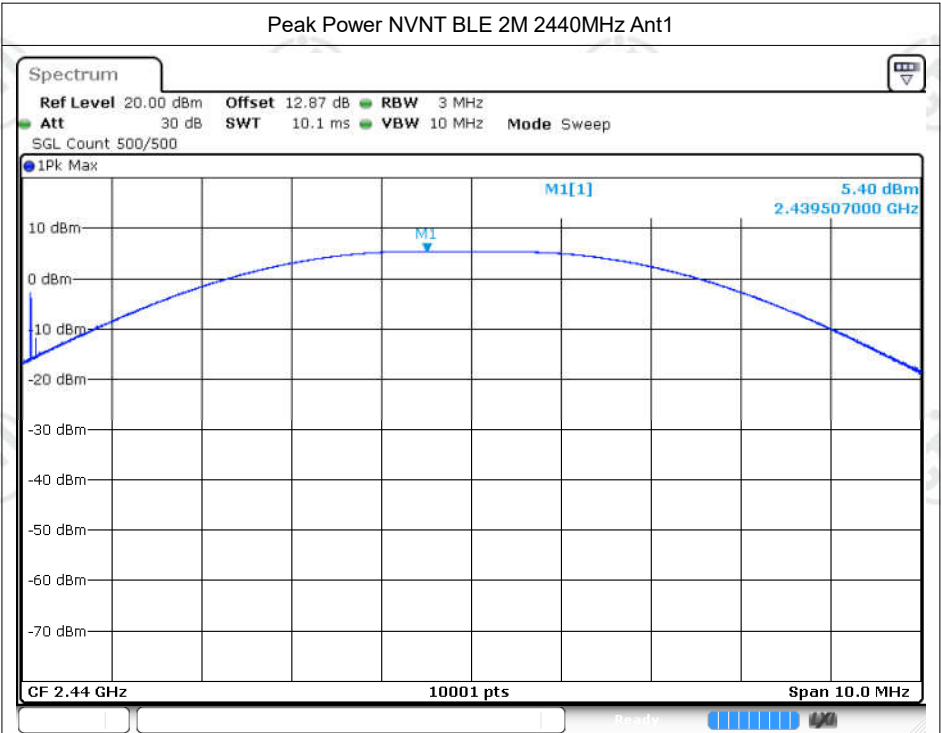
Date: 21.JUL.2023 10:19:04



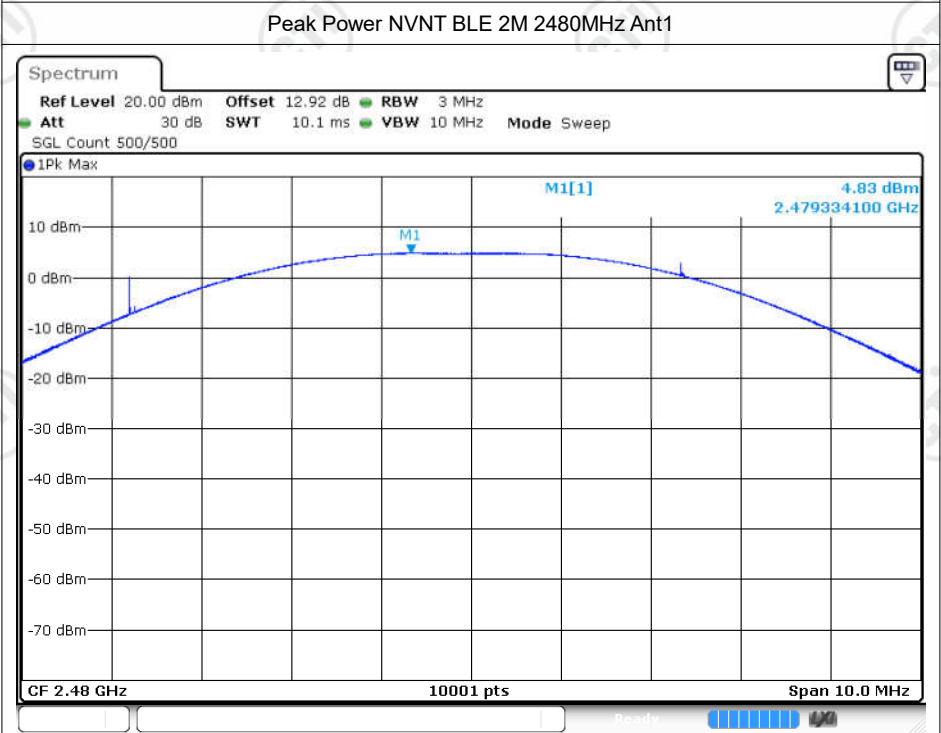
Date: 21. JUL. 2023 10:20:47



Date: 21. JUL. 2023 10:24:07



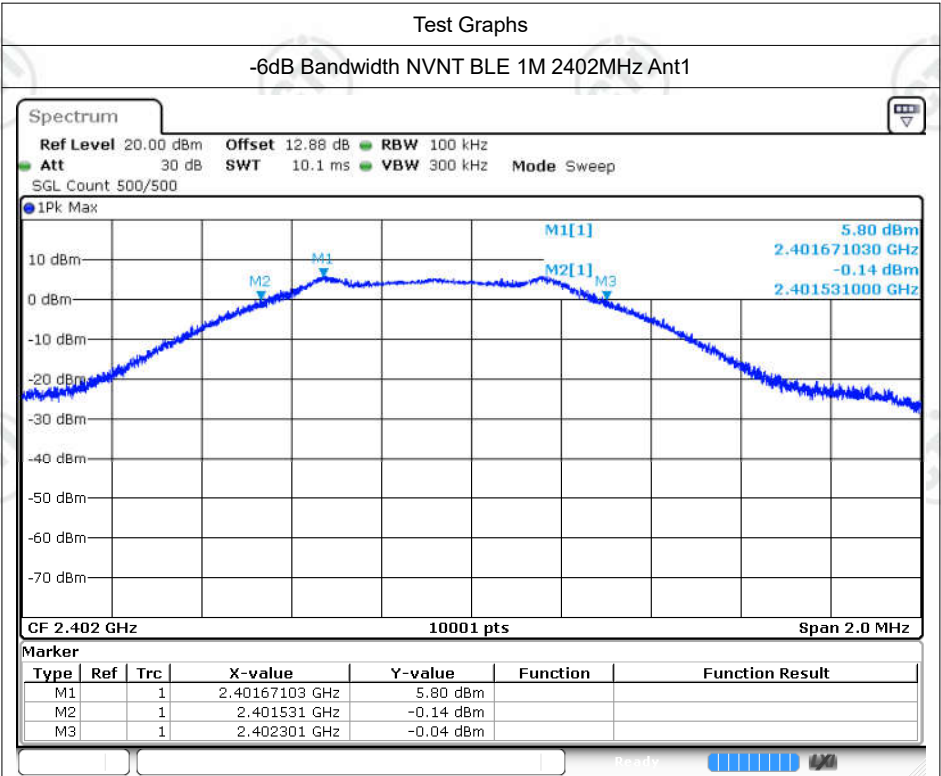
Date: 21. JUL. 2023 10:26:17



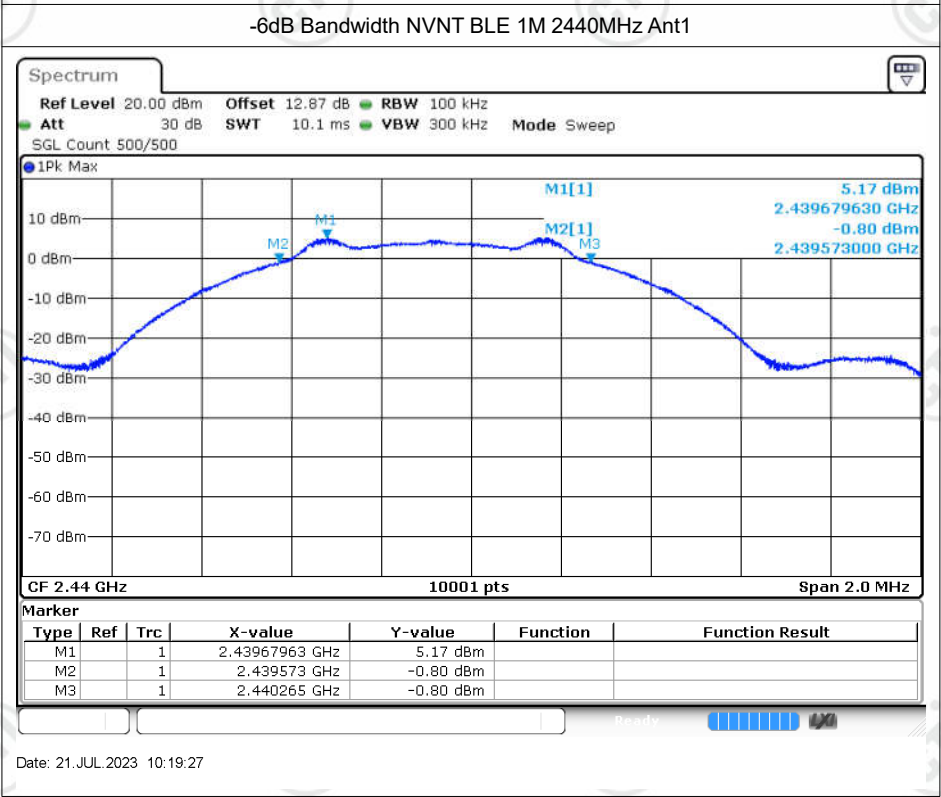
Date: 21. JUL. 2023 10:28:16

-6dB Bandwidth

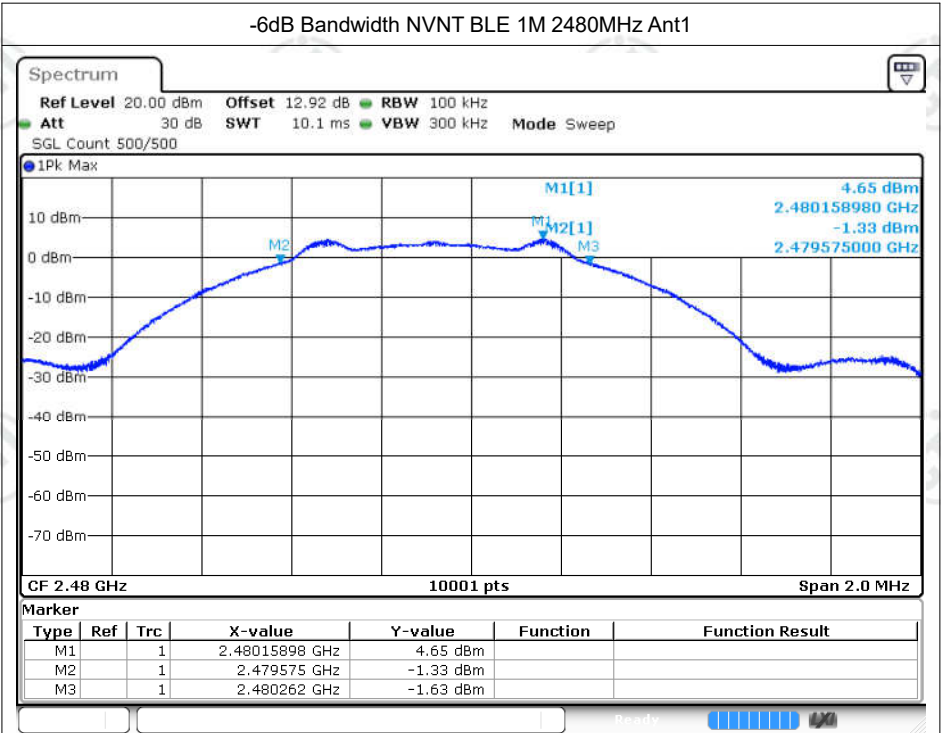
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.77	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.692	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.687	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.386	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.394	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.409	0.5	Pass



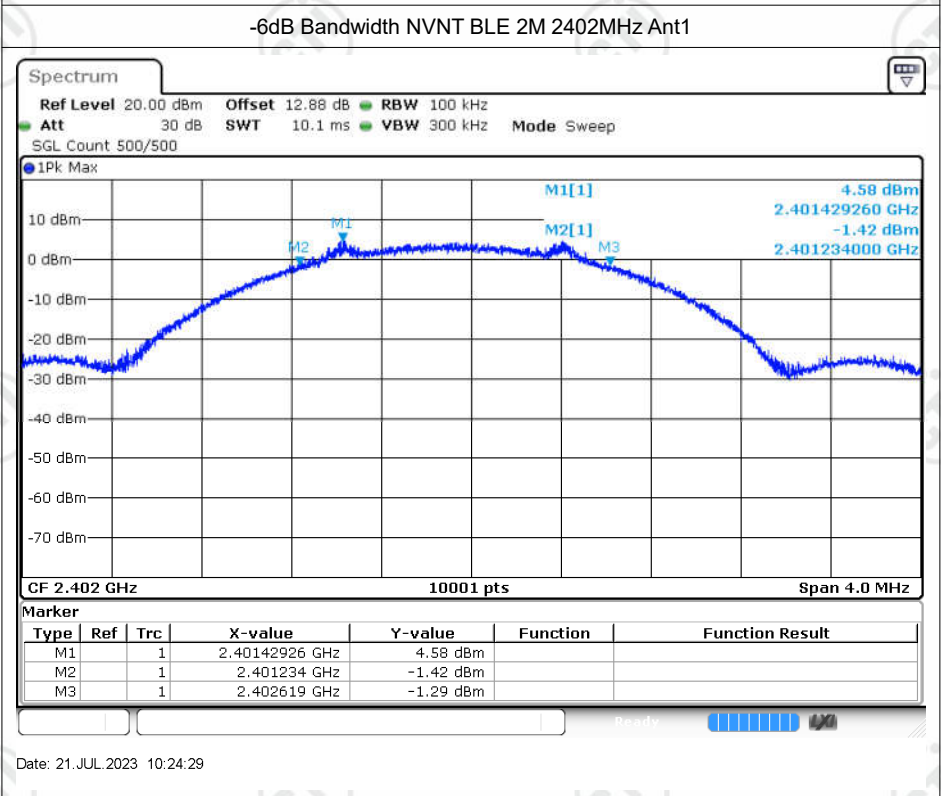
Date: 21.JUL.2023 10:17:27



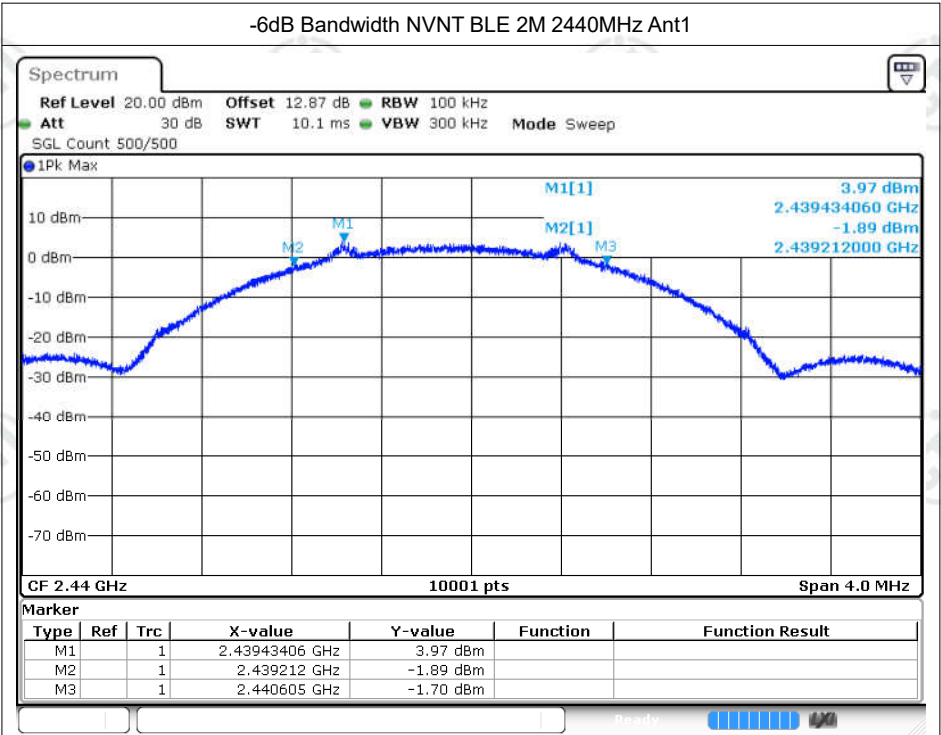
Date: 21.JUL.2023 10:19:27



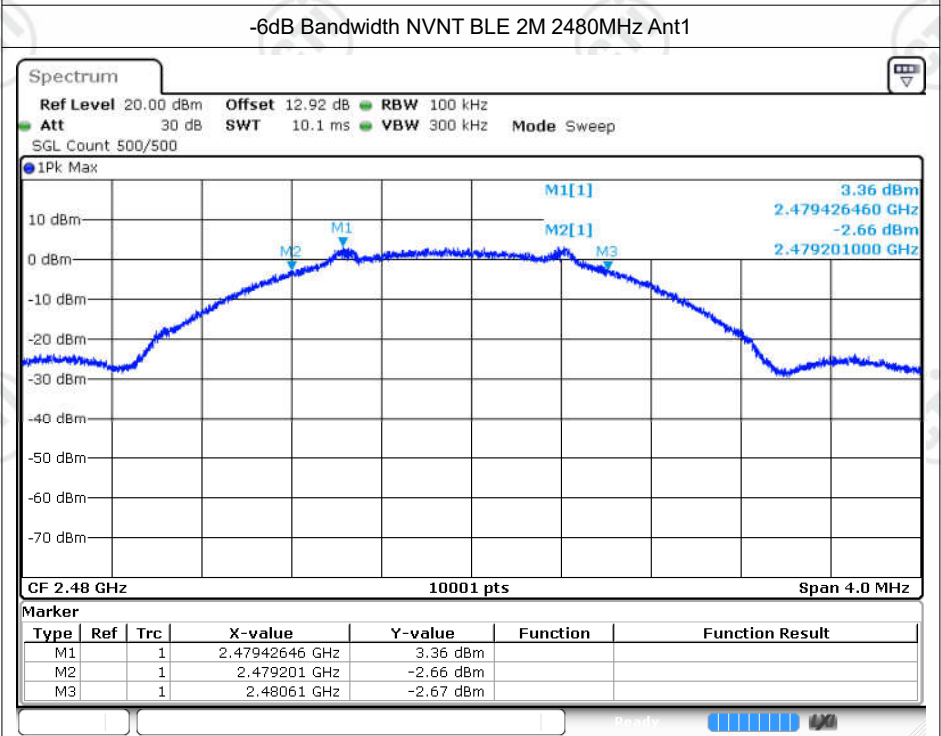
Date: 21. JUL. 2023 10:21:09



Date: 21. JUL. 2023 10:24:29



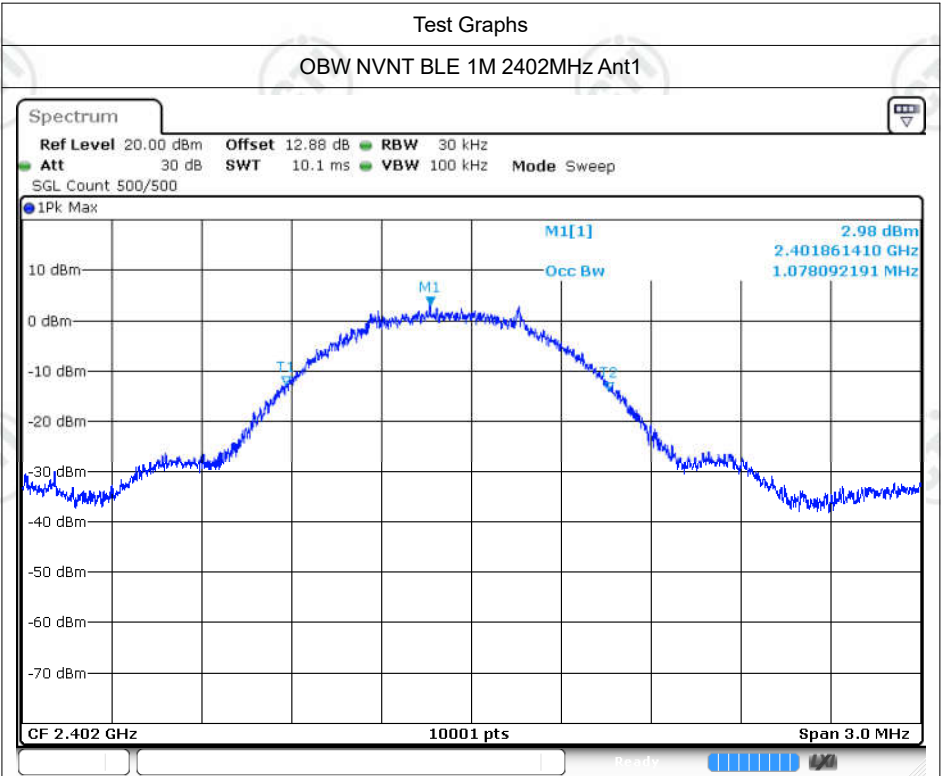
Date: 21.JUL.2023 10:26:40



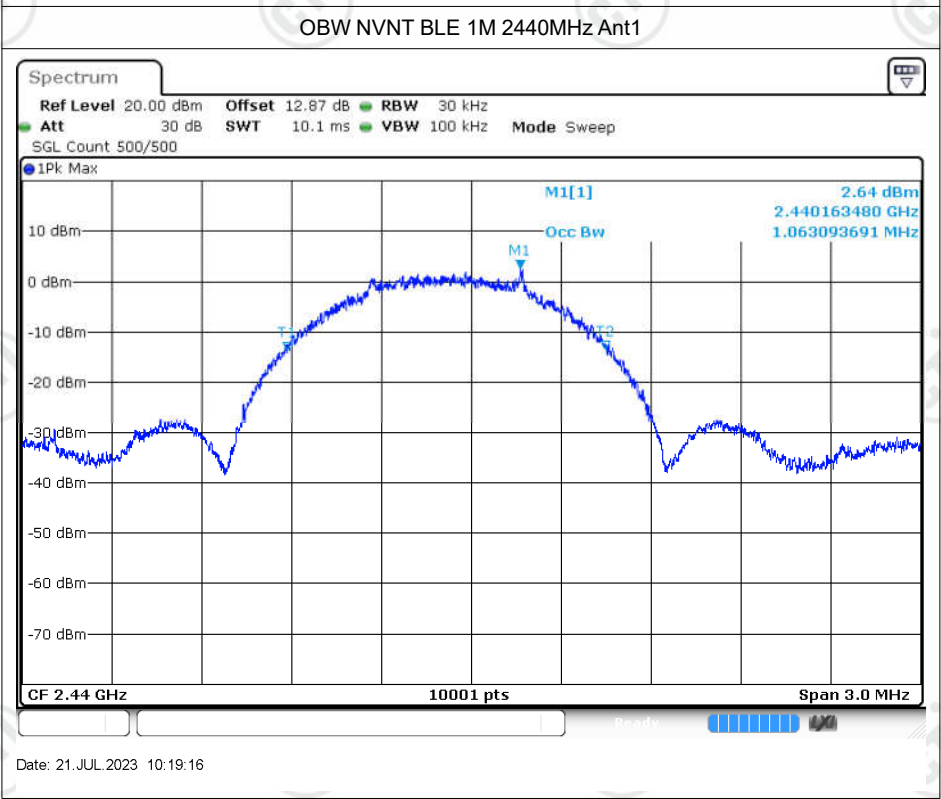
Date: 21.JUL.2023 10:28:38

Occupied Channel Bandwidth

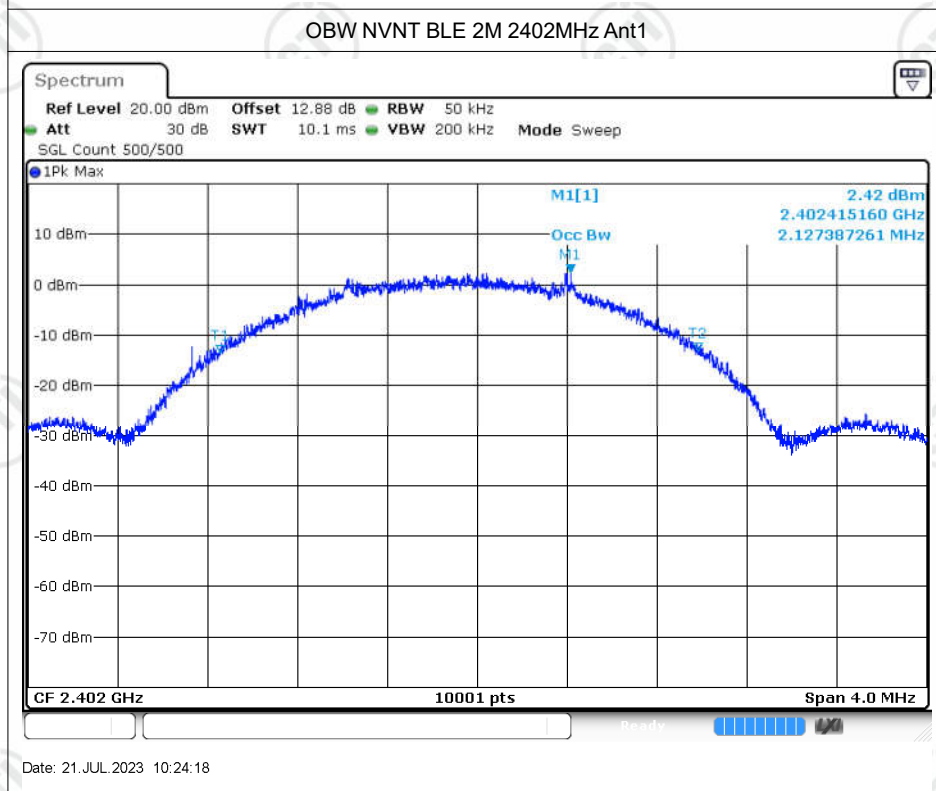
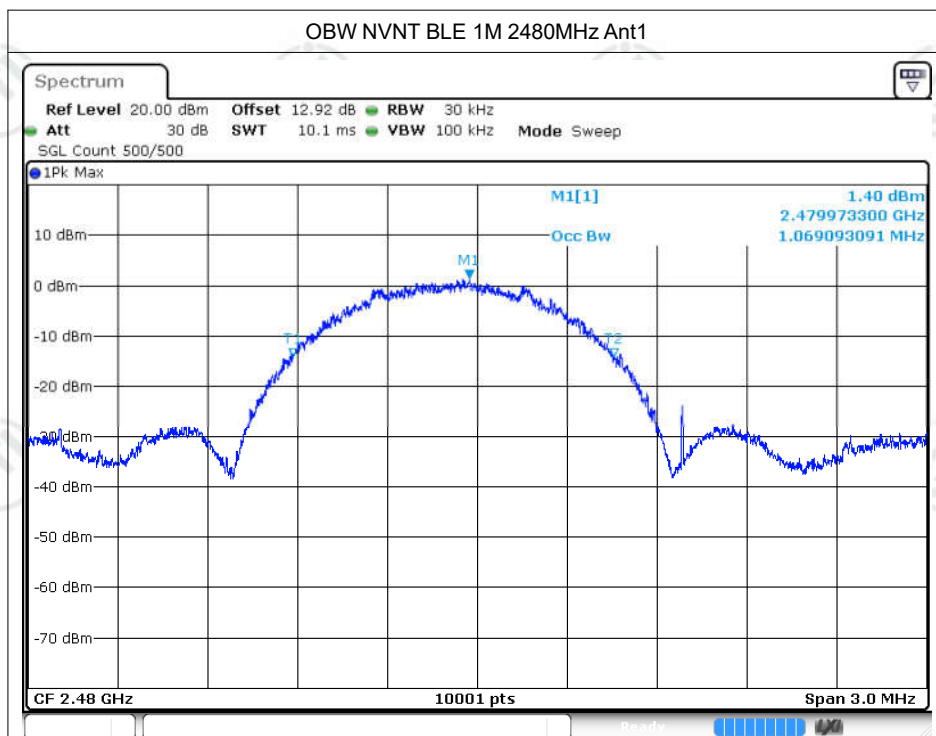
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.078
NVNT	BLE 1M	2440	Ant1	1.063
NVNT	BLE 1M	2480	Ant1	1.069
NVNT	BLE 2M	2402	Ant1	2.127
NVNT	BLE 2M	2440	Ant1	2.125
NVNT	BLE 2M	2480	Ant1	2.141

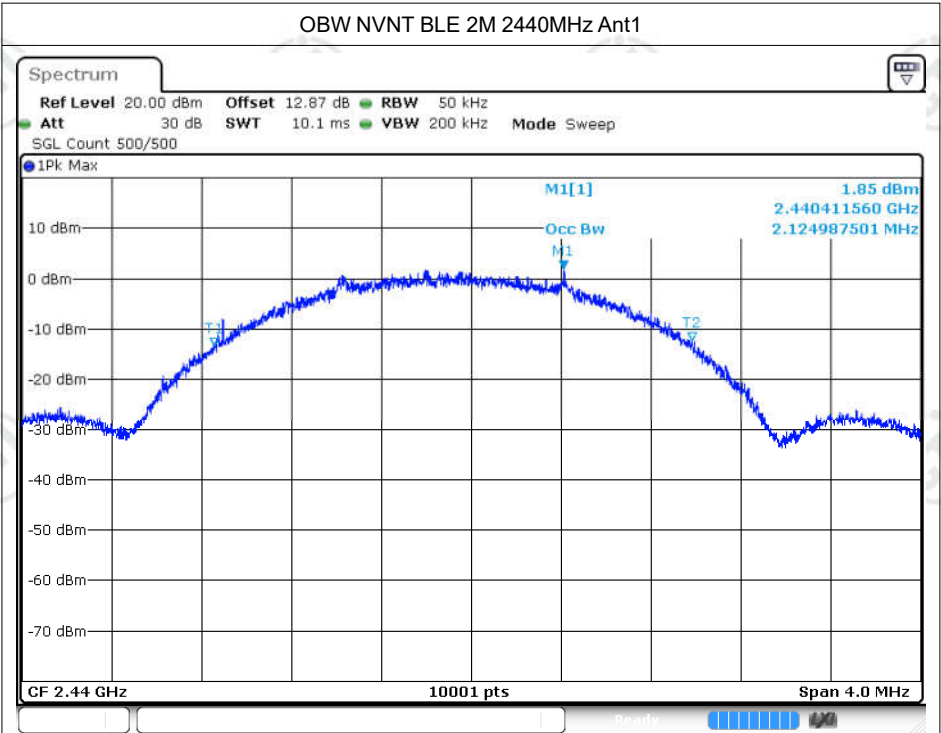


Date: 21.JUL.2023 10:17:16

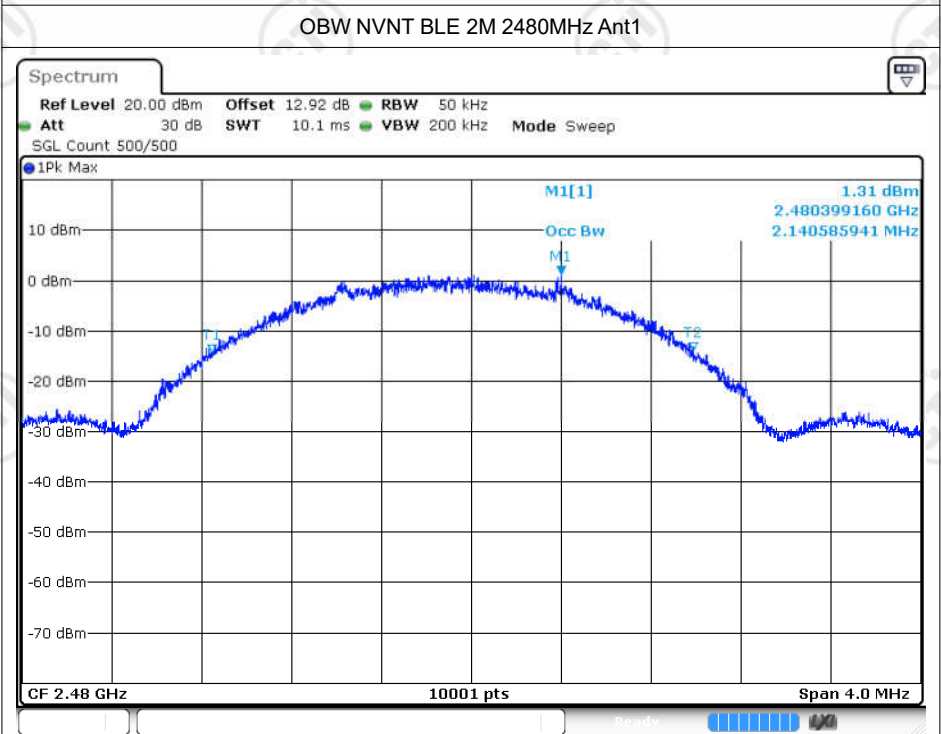


Date: 21.JUL.2023 10:19:16





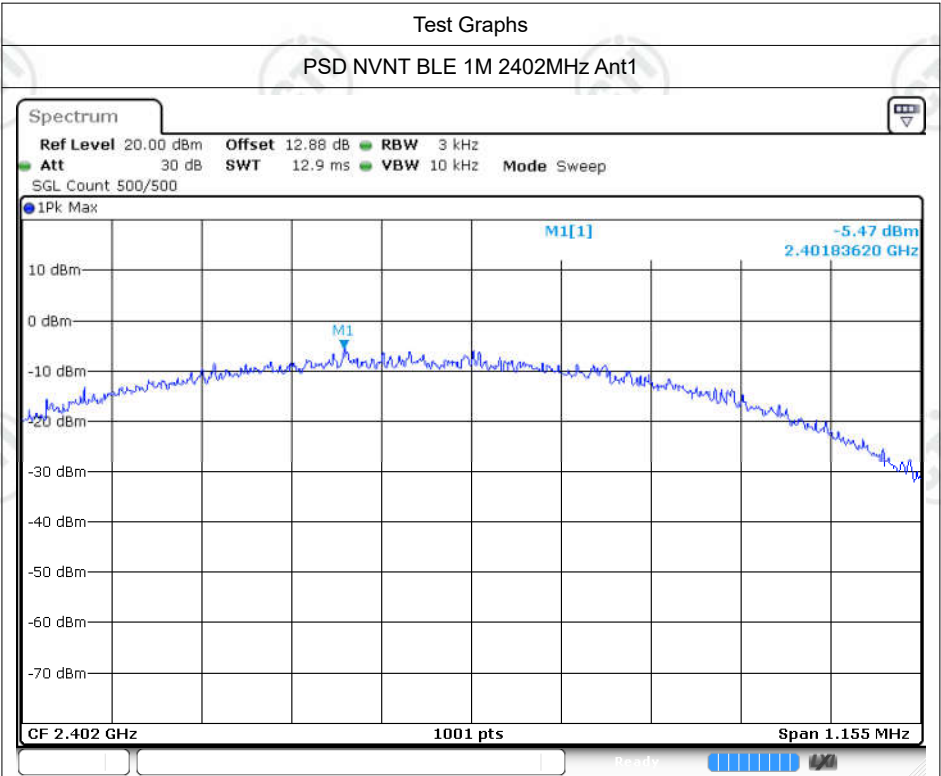
Date: 21 JUL 2023 10:26:29



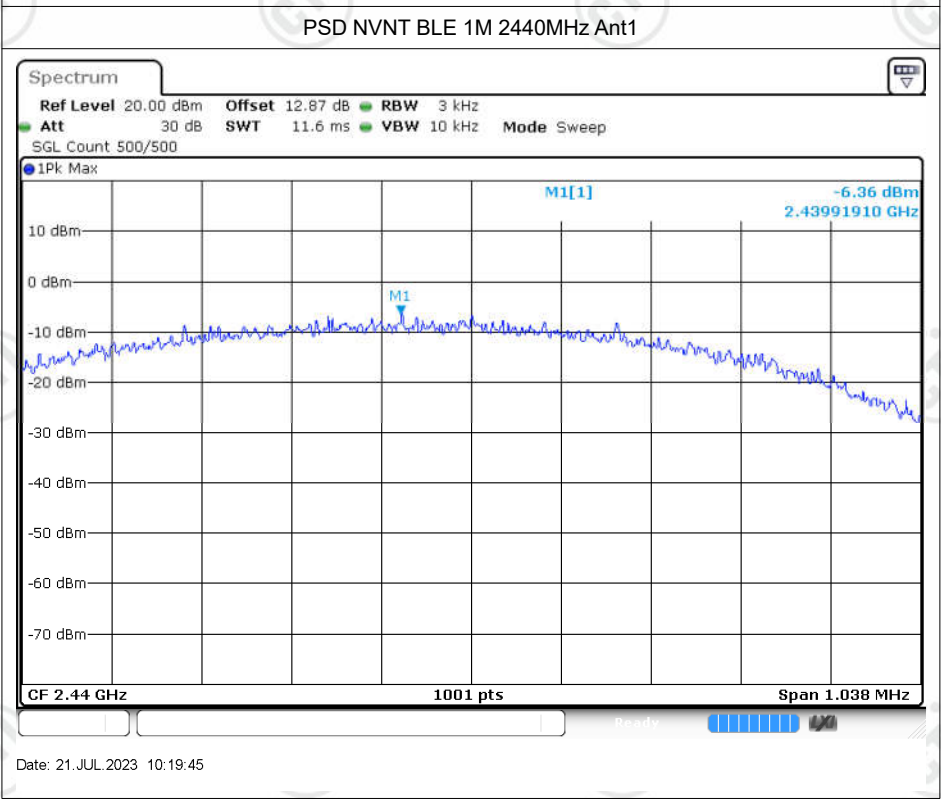
Date: 21 JUL 2023 10:28:27

Maximum Power Spectral Density Level

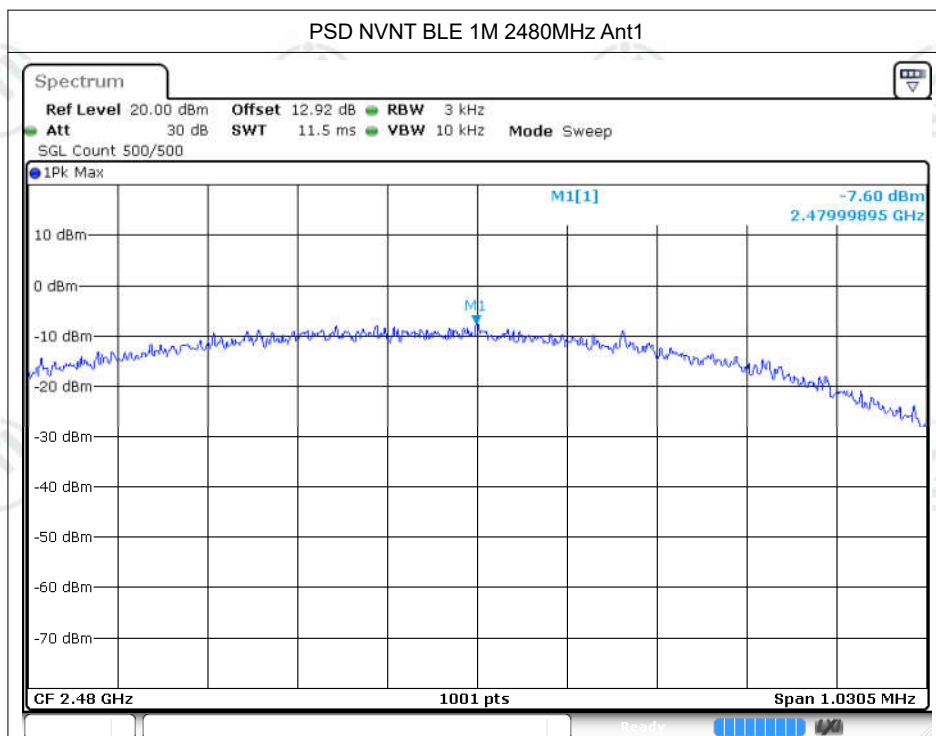
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-5.47	8	Pass
NVNT	BLE 1M	2440	Ant1	-6.36	8	Pass
NVNT	BLE 1M	2480	Ant1	-7.6	8	Pass
NVNT	BLE 2M	2402	Ant1	-8.72	8	Pass
NVNT	BLE 2M	2440	Ant1	-9.04	8	Pass
NVNT	BLE 2M	2480	Ant1	-10.5	8	Pass



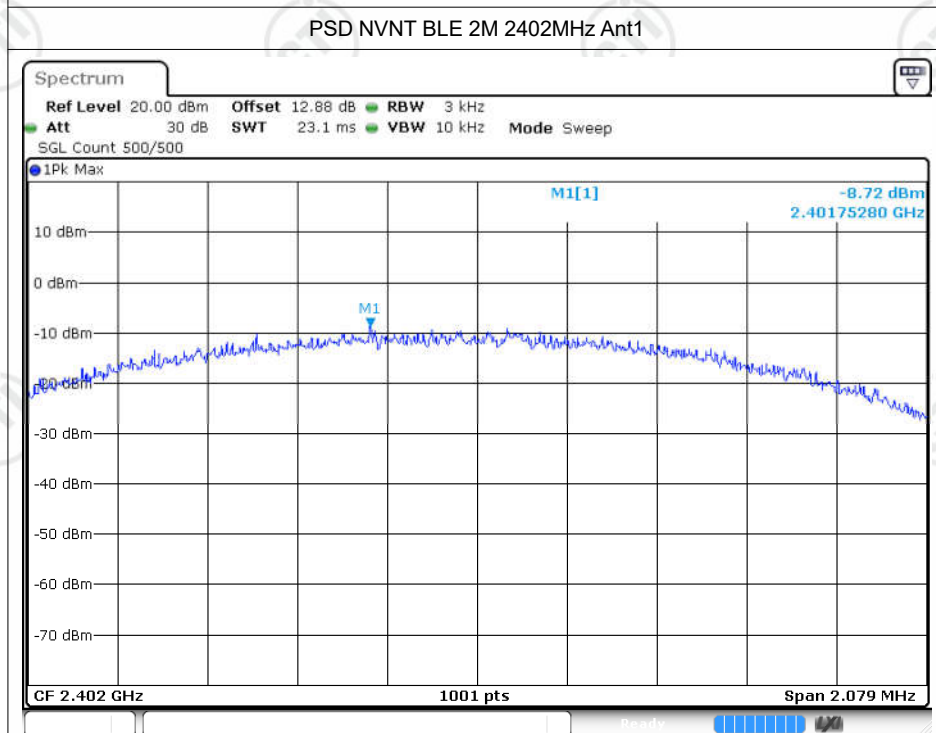
Date: 21.JUL.2023 10:17:46



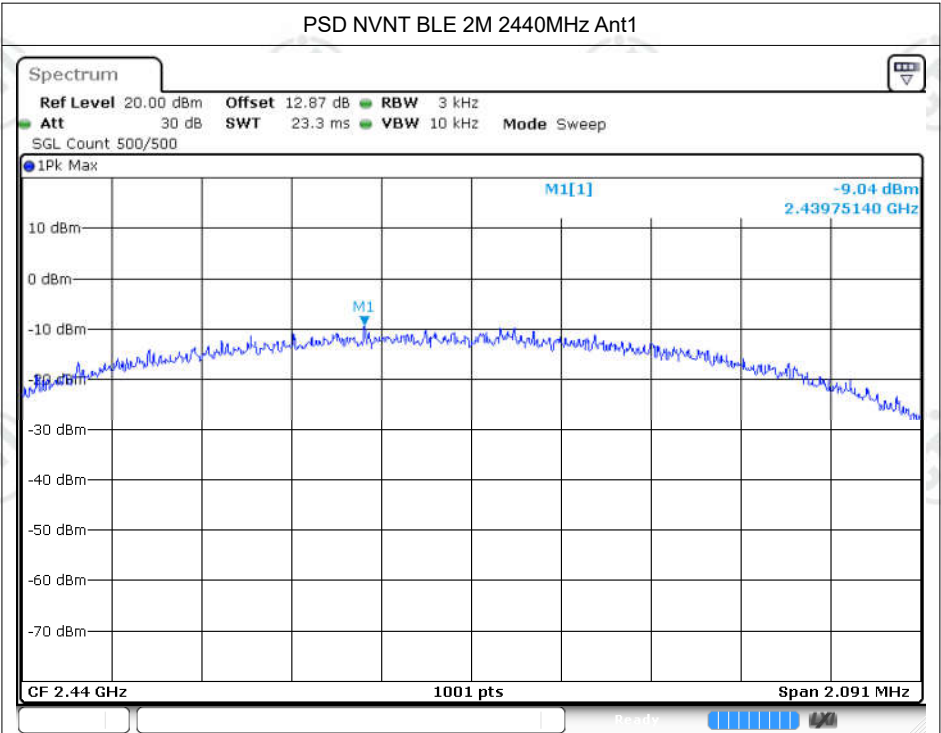
Date: 21.JUL.2023 10:19:45



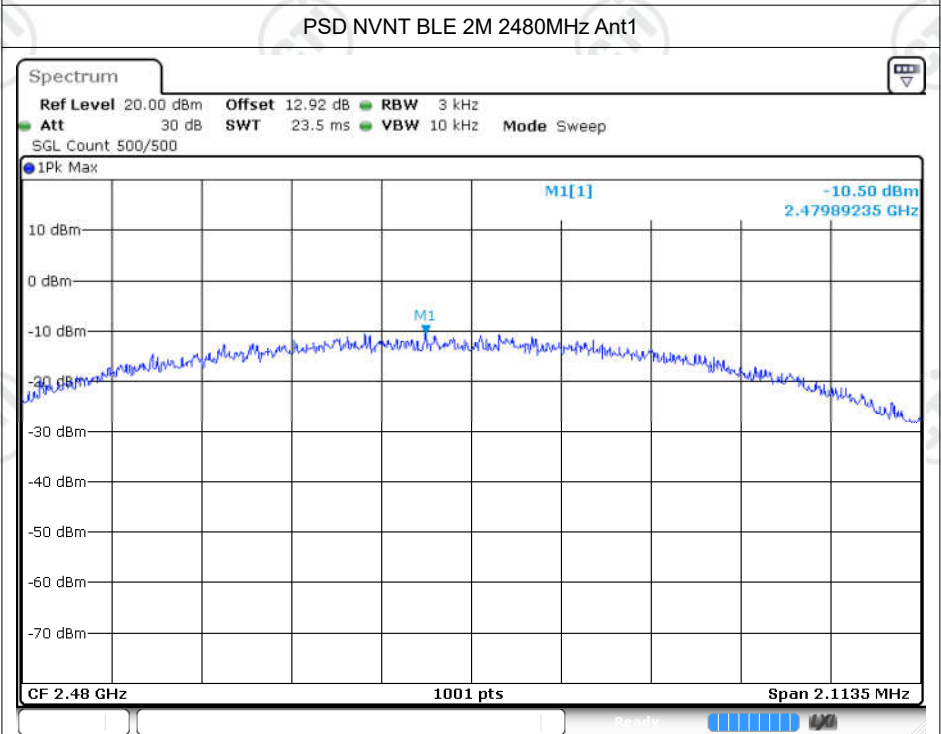
Date: 21. JUL. 2023 10:21:27



Date: 21. JUL. 2023 10:24:57



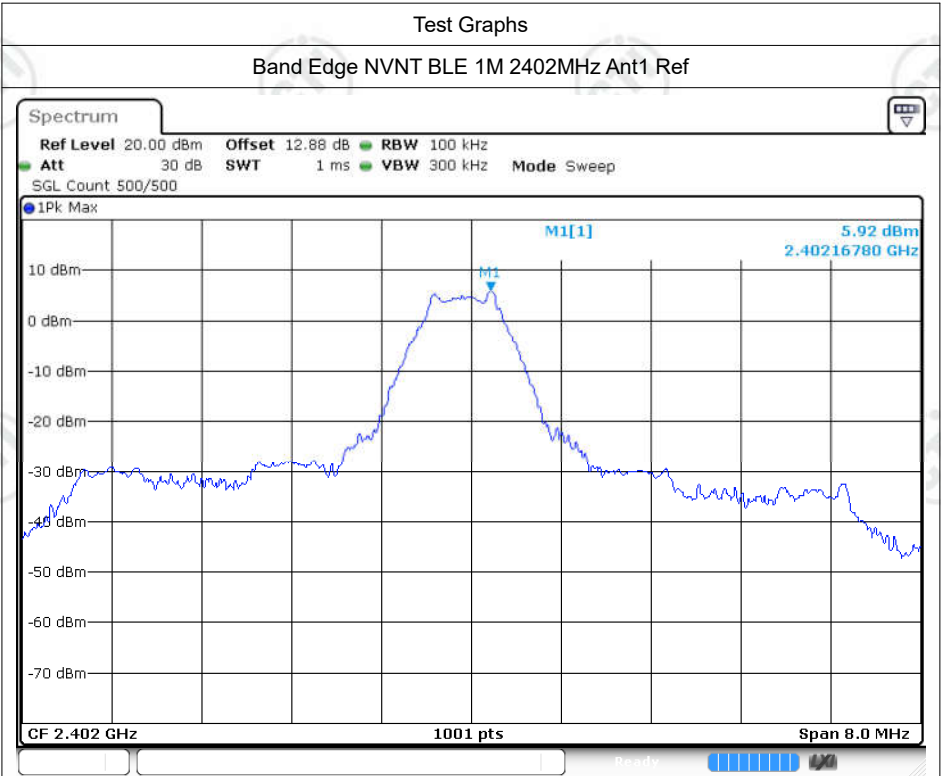
Date: 21. JUL. 2023 10:27:08



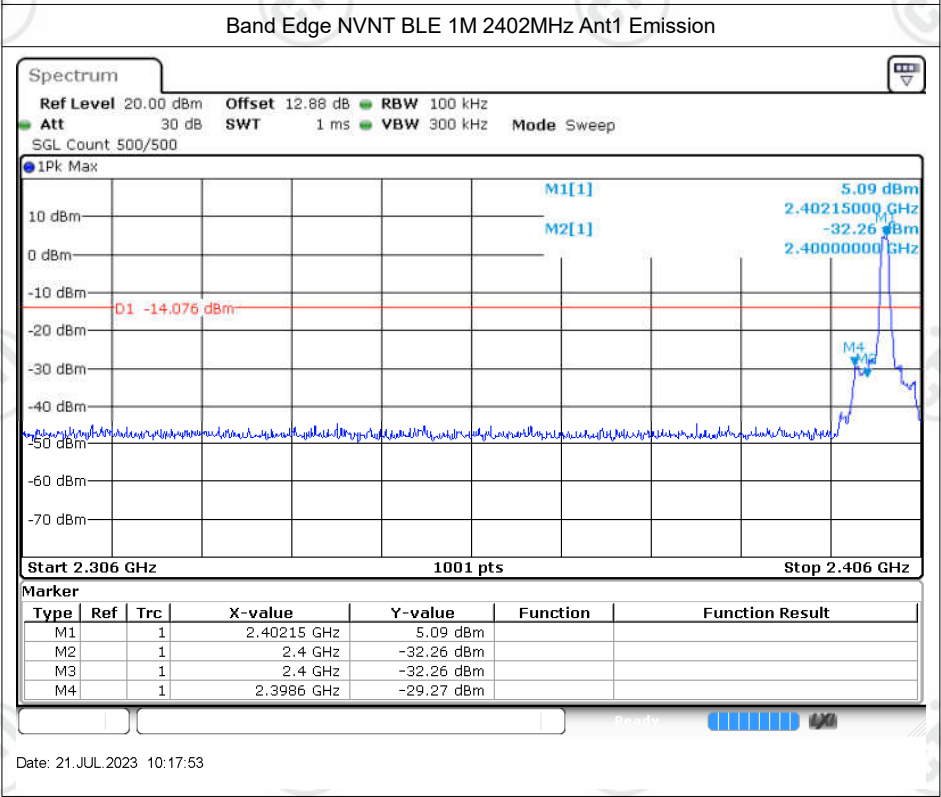
Date: 21. JUL. 2023 10:29:06

Band Edge

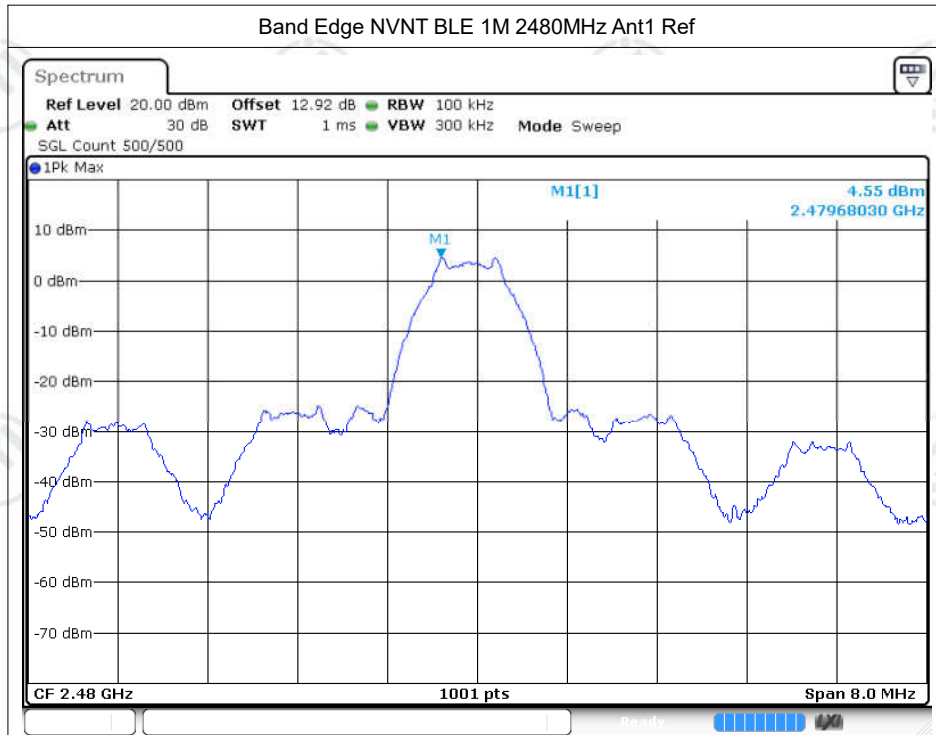
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-35.18	-20	Pass
NVNT	BLE 1M	2480	Ant1	-43.85	-20	Pass
NVNT	BLE 2M	2402	Ant1	-31.43	-20	Pass
NVNT	BLE 2M	2480	Ant1	-37.59	-20	Pass



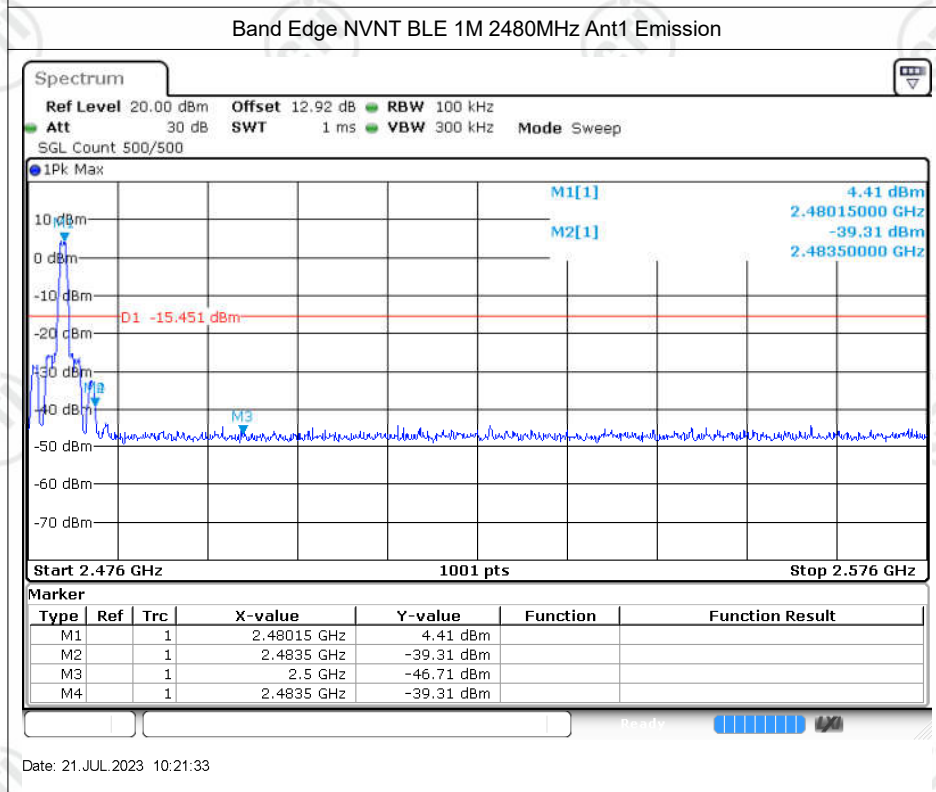
Date: 21.JUL.2023 10:17:49



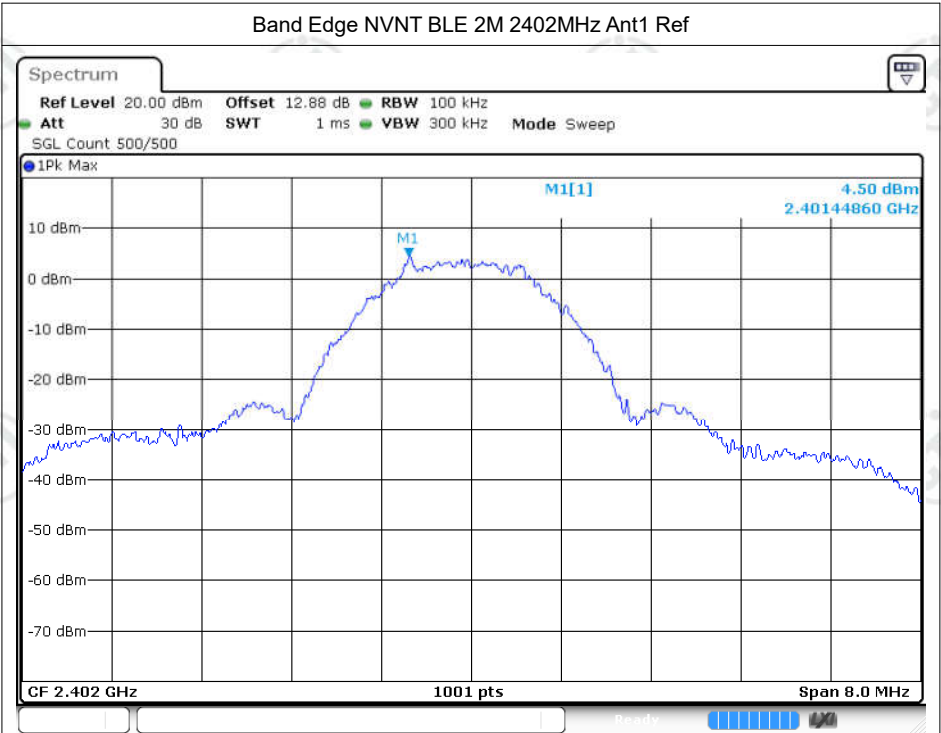
Date: 21.JUL.2023 10:17:53



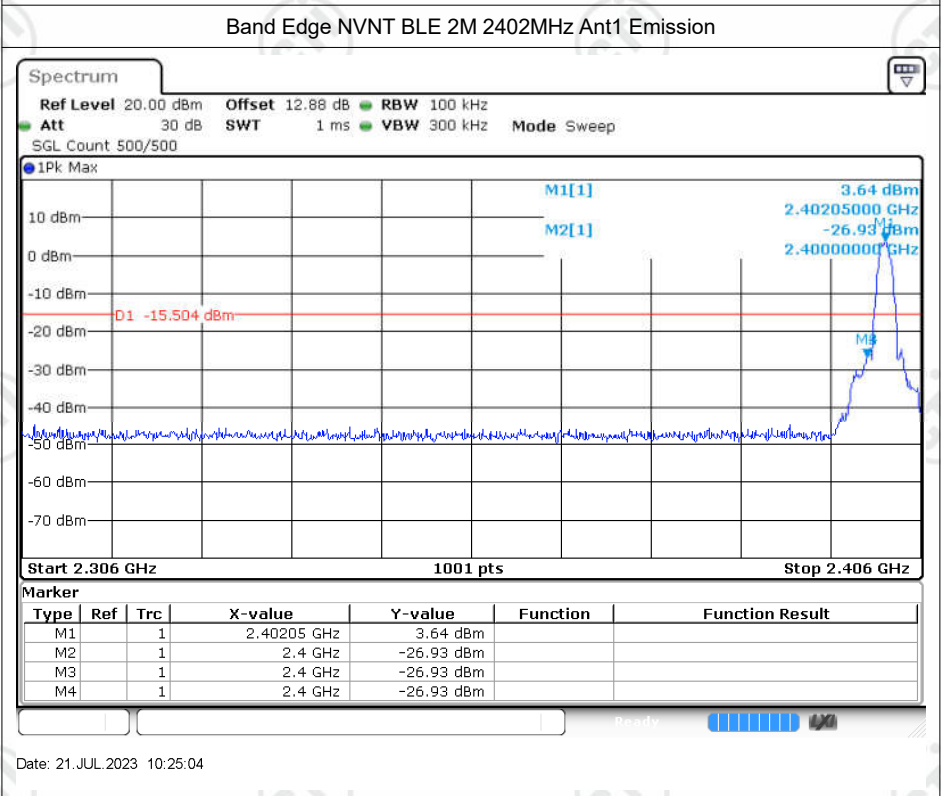
Date: 21.JUL.2023 10:21:31

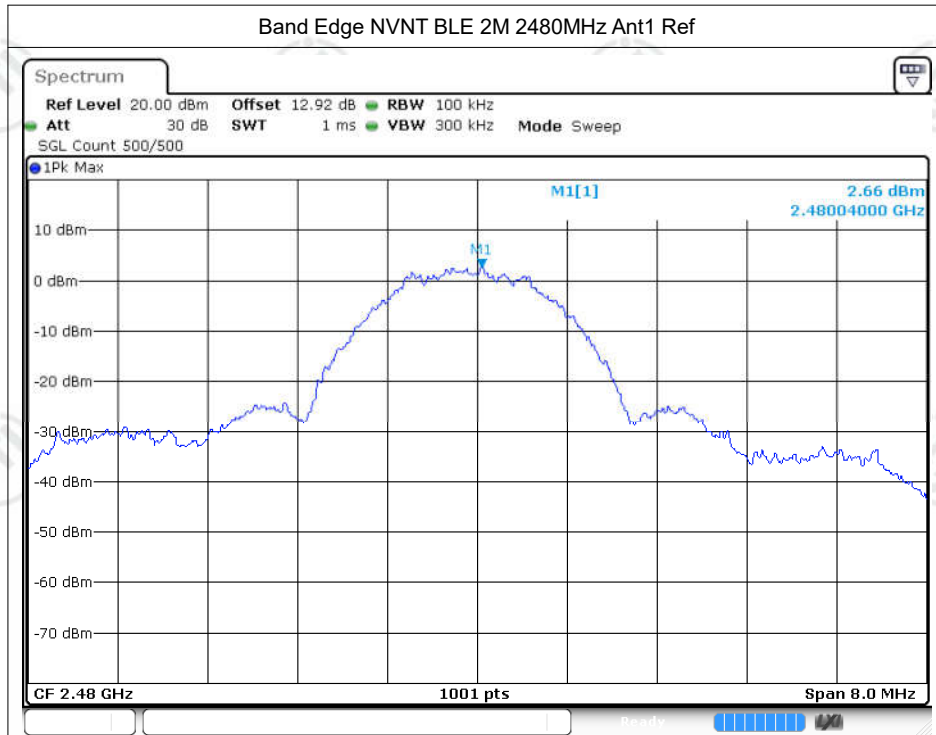


Date: 21.JUL.2023 10:21:33

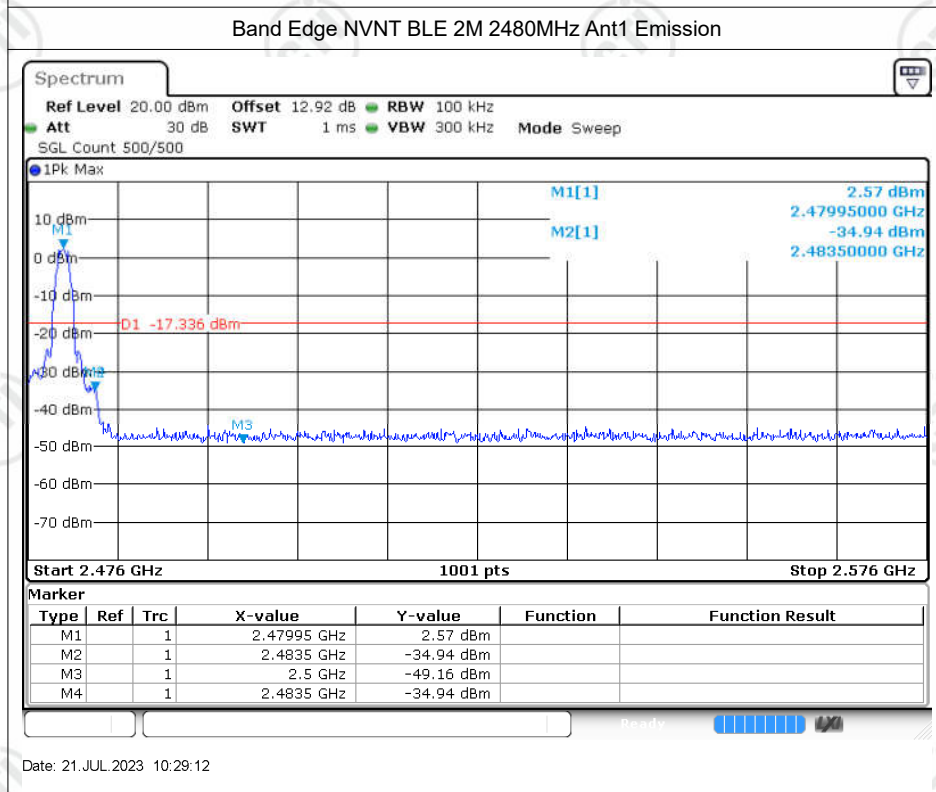


Date: 21.JUL.2023 10:25:01





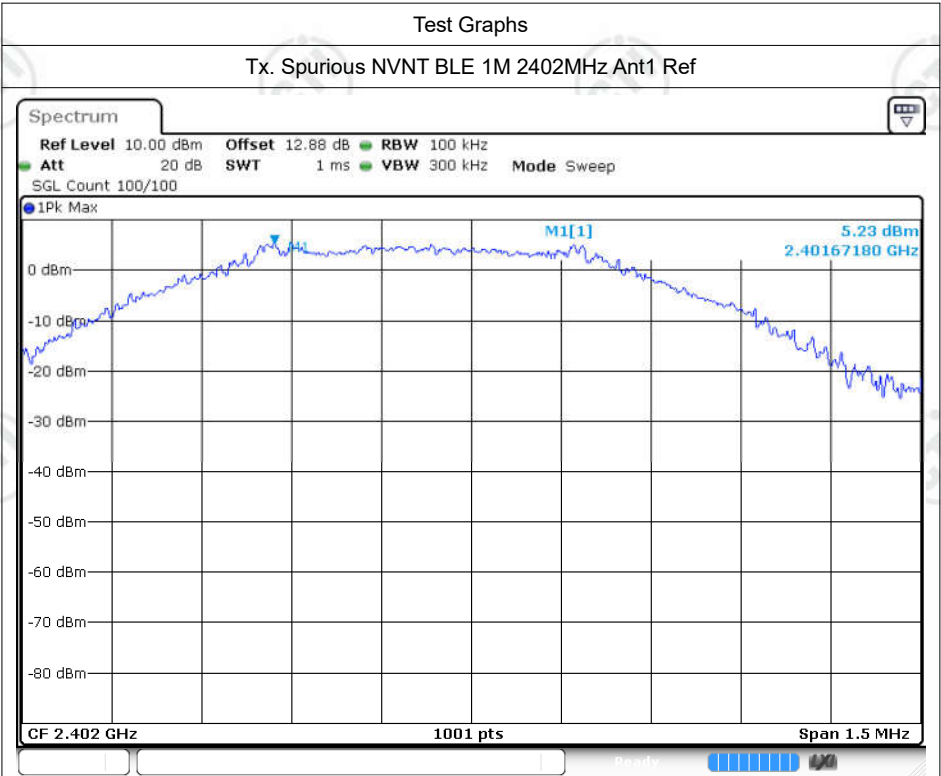
Date: 21.JUL.2023 10:29:10



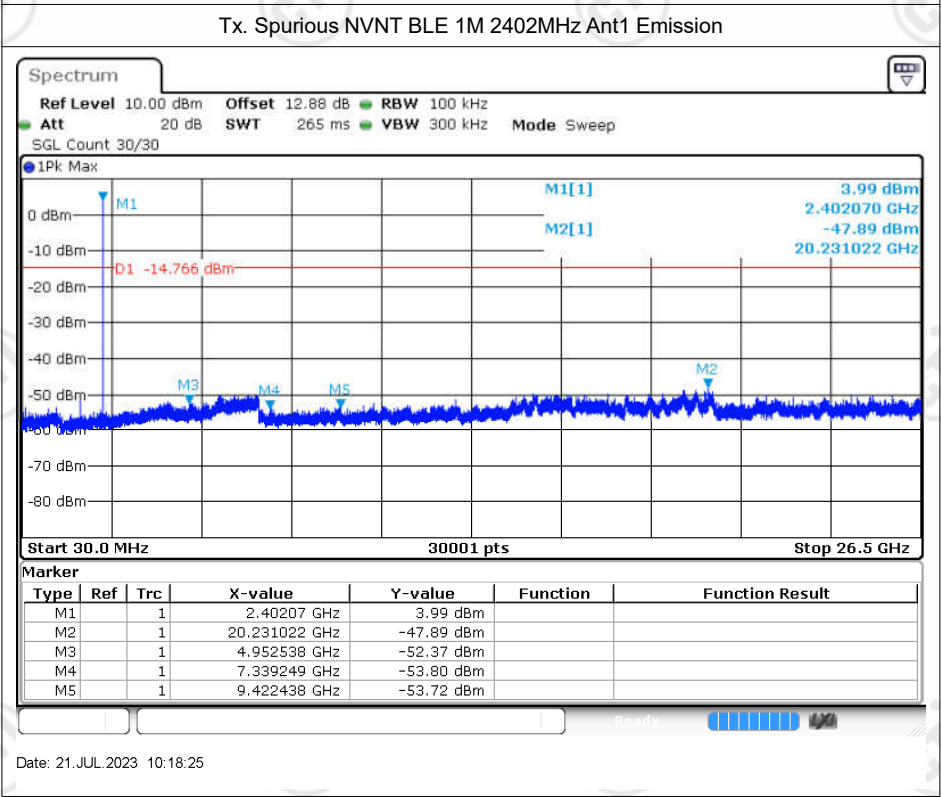
Date: 21.JUL.2023 10:29:12

Conducted RF Spurious Emission

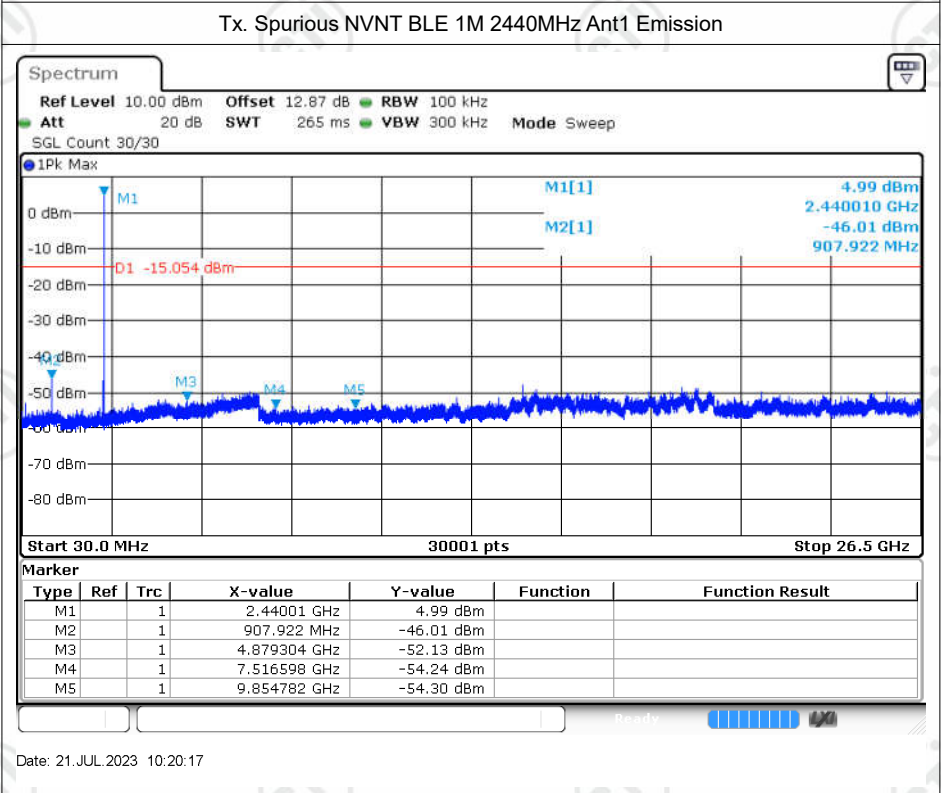
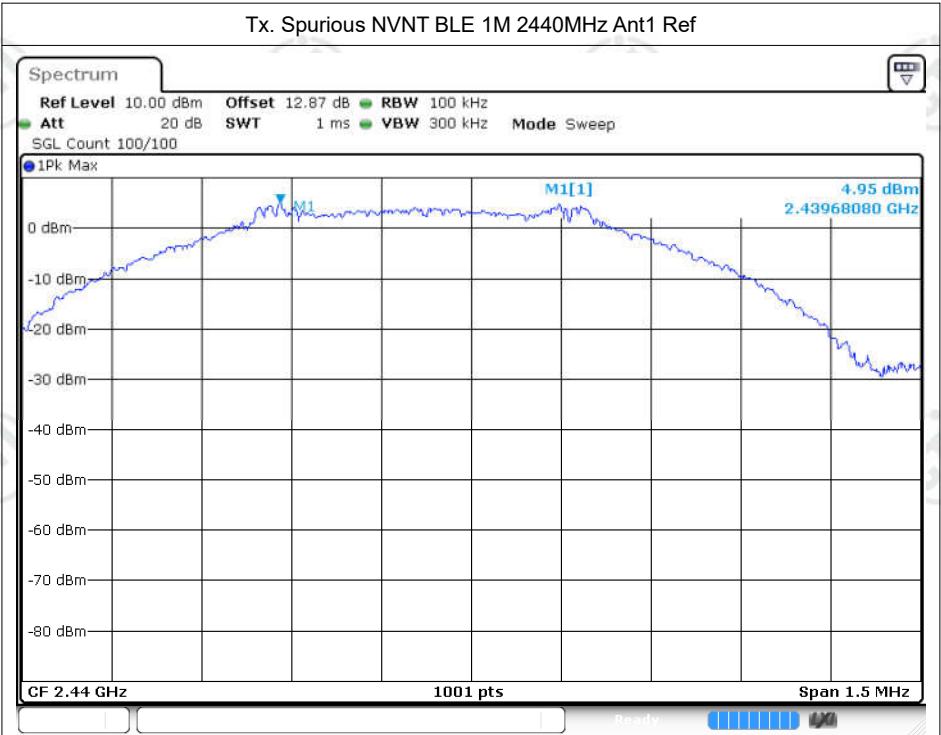
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.12	-20	Pass
NVNT	BLE 1M	2440	Ant1	-50.95	-20	Pass
NVNT	BLE 1M	2480	Ant1	-48.6	-20	Pass
NVNT	BLE 2M	2402	Ant1	-52.2	-20	Pass
NVNT	BLE 2M	2440	Ant1	-51.61	-20	Pass
NVNT	BLE 2M	2480	Ant1	-50.35	-20	Pass

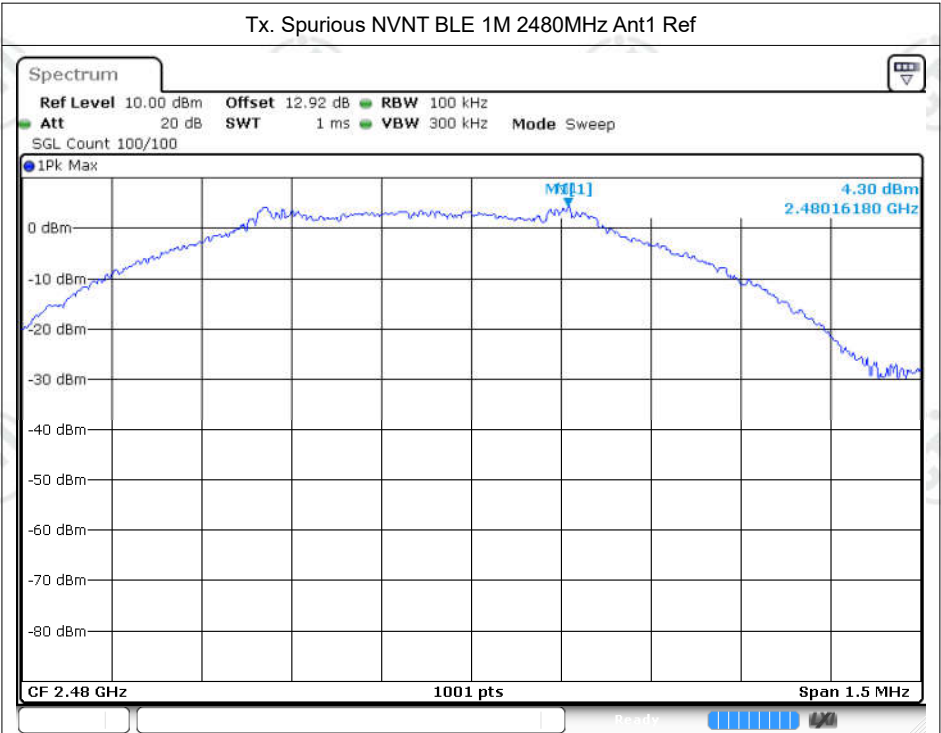


Date: 21.JUL.2023 10:17:56

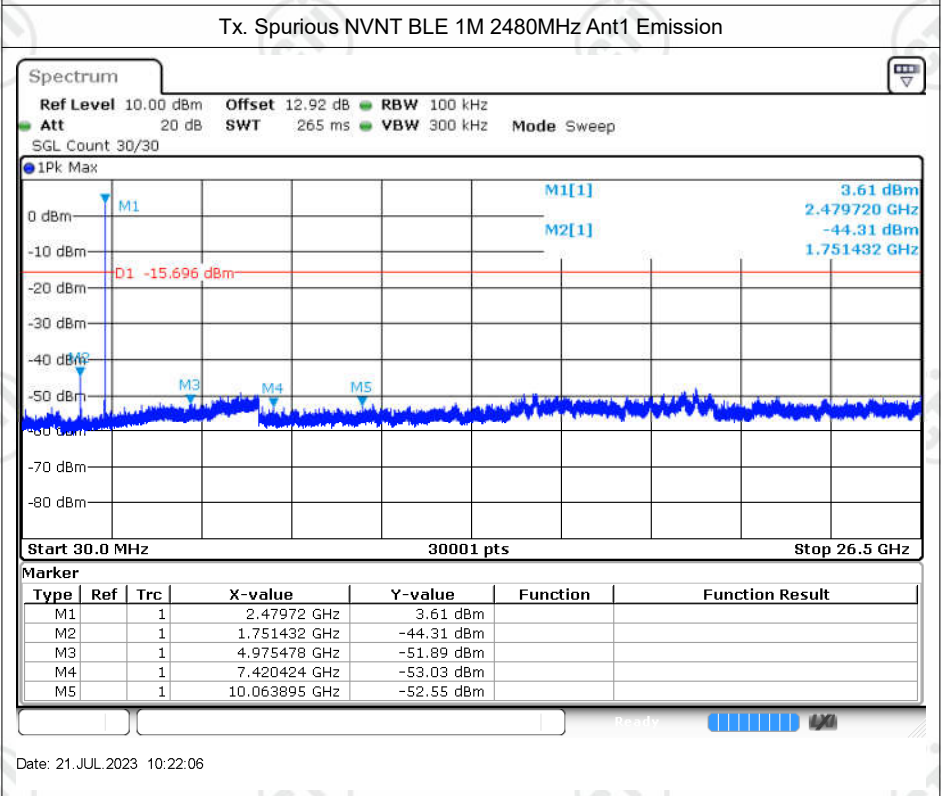


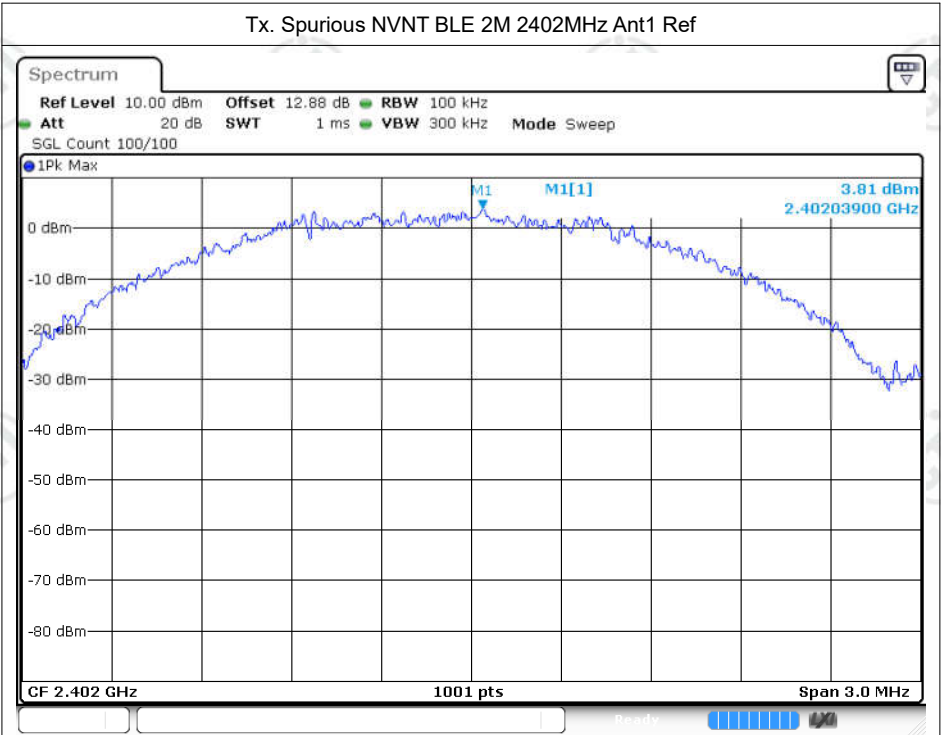
Date: 21.JUL.2023 10:18:25



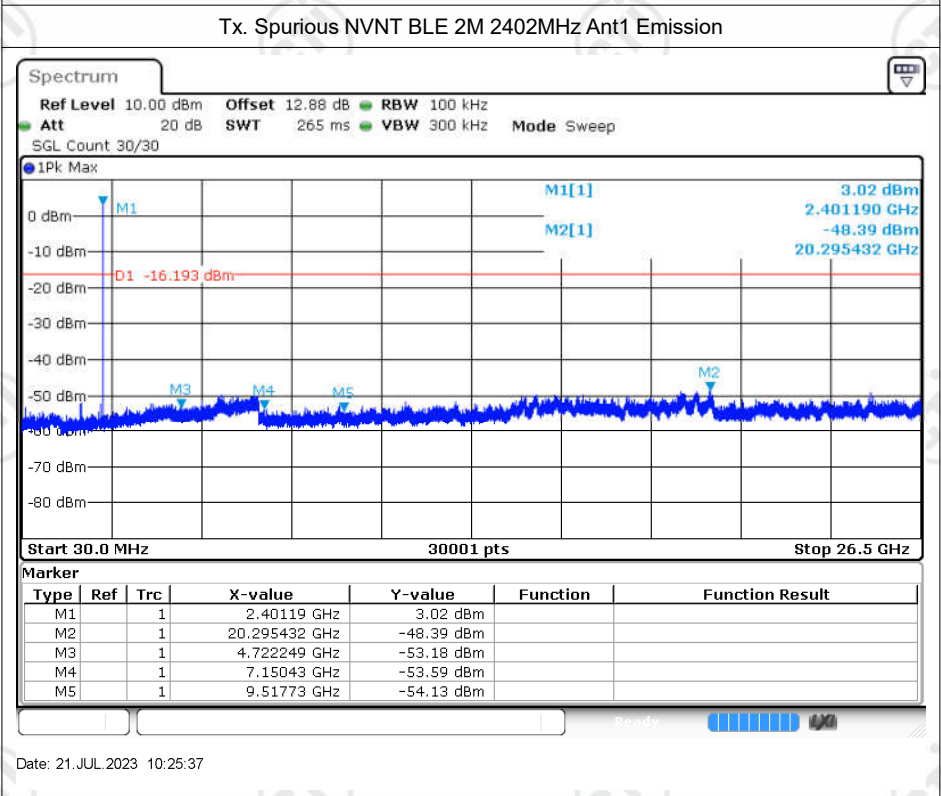


Date: 21. JUL. 2023 10:21:36

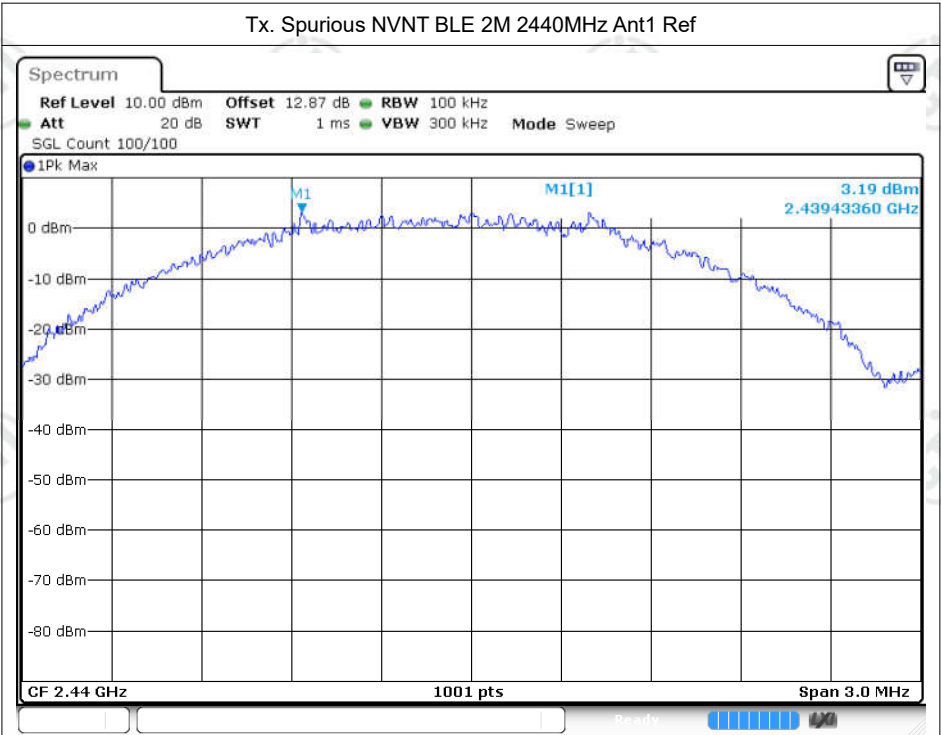




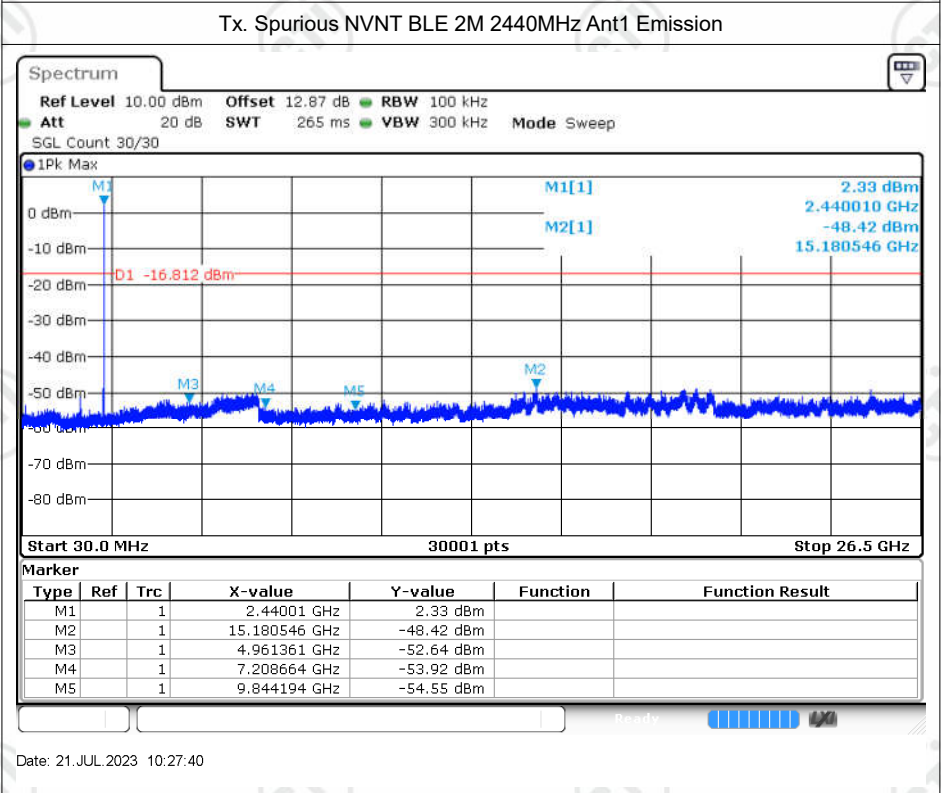
Date: 21.JUL.2023 10:25:07

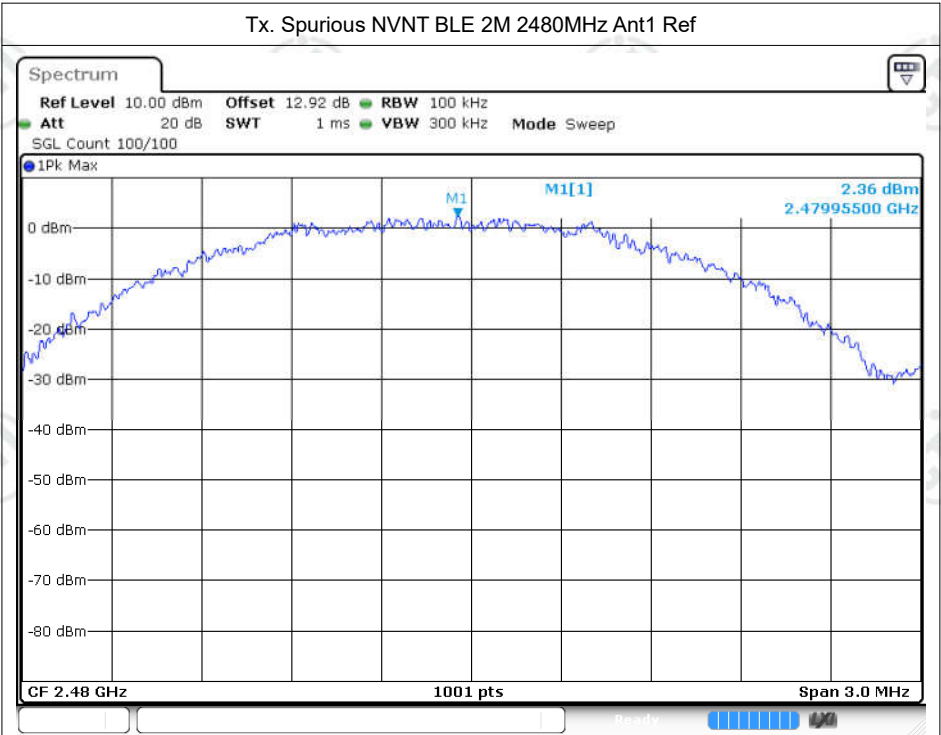


Date: 21.JUL.2023 10:25:37

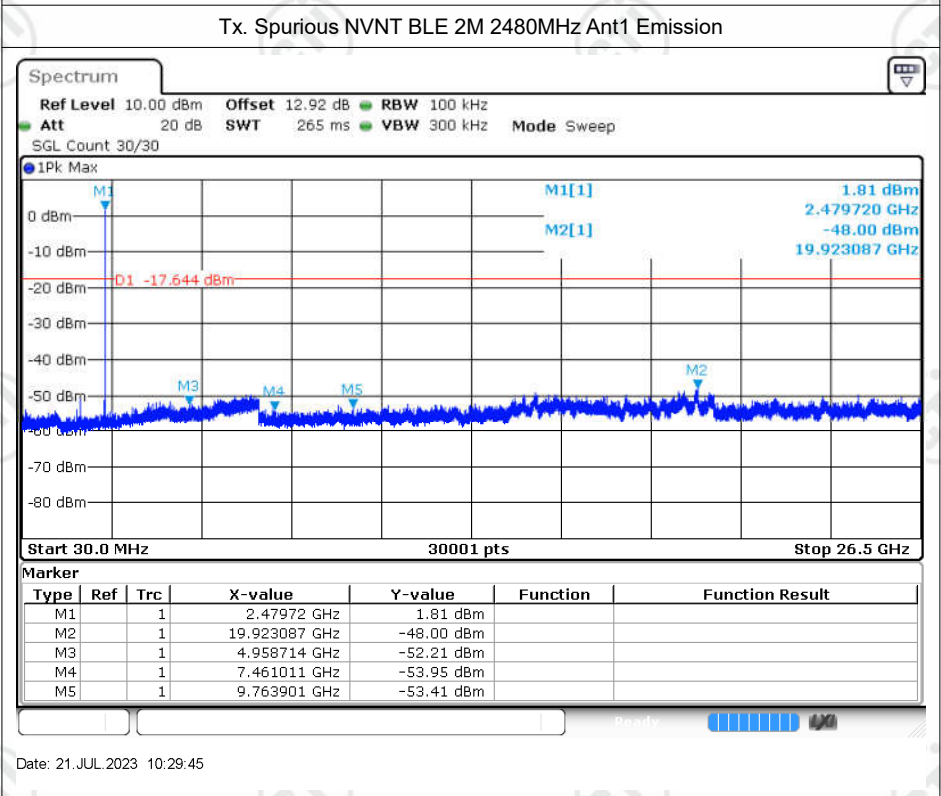


Date: 21.JUL.2023 10:27:11





Date: 21.JUL.2023 10:29:15



Date: 21.JUL.2023 10:29:45

*** End of Report ***