

Appendix: Bluetooth LE

Contents

Contents 2

Duty Cycle 3

Maximum Peak Conducted Output Power 7

-6dB Bandwidth 11

Occupied Channel Bandwidth 15

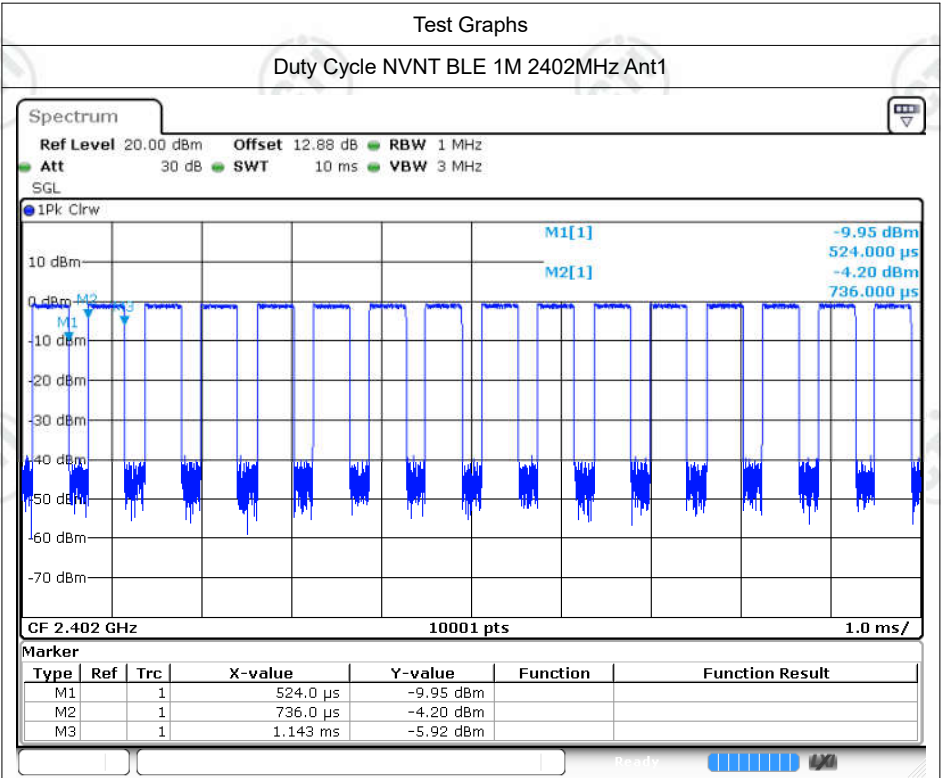
Maximum Power Spectral Density Level 19

Band Edge 23

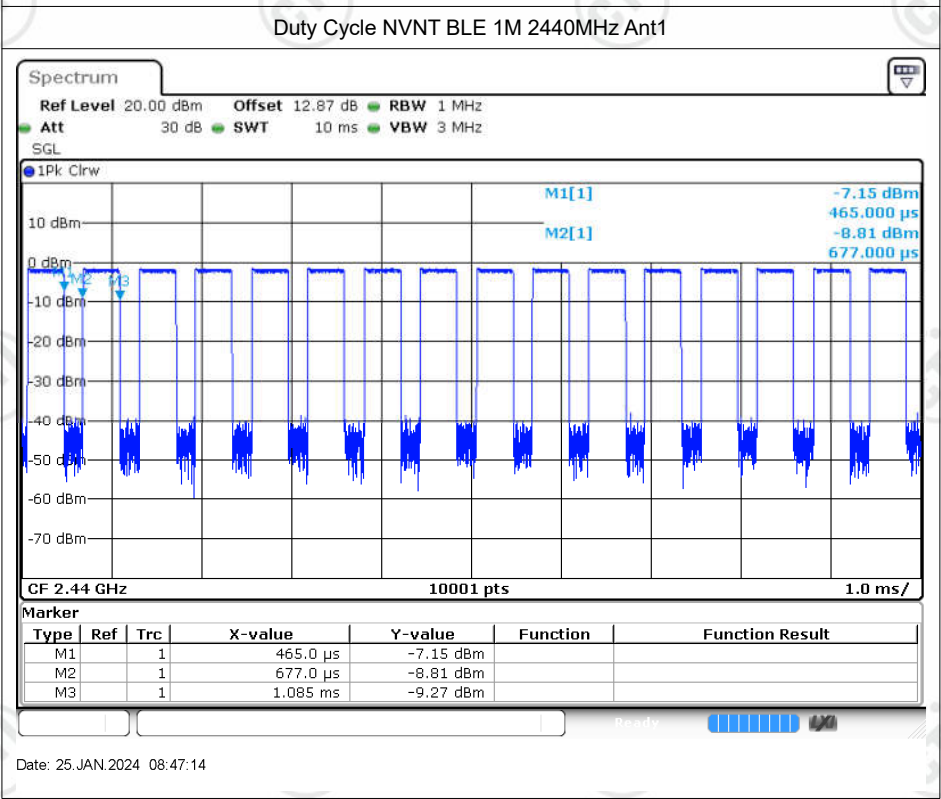
Conducted RF Spurious Emission 28

Duty Cycle

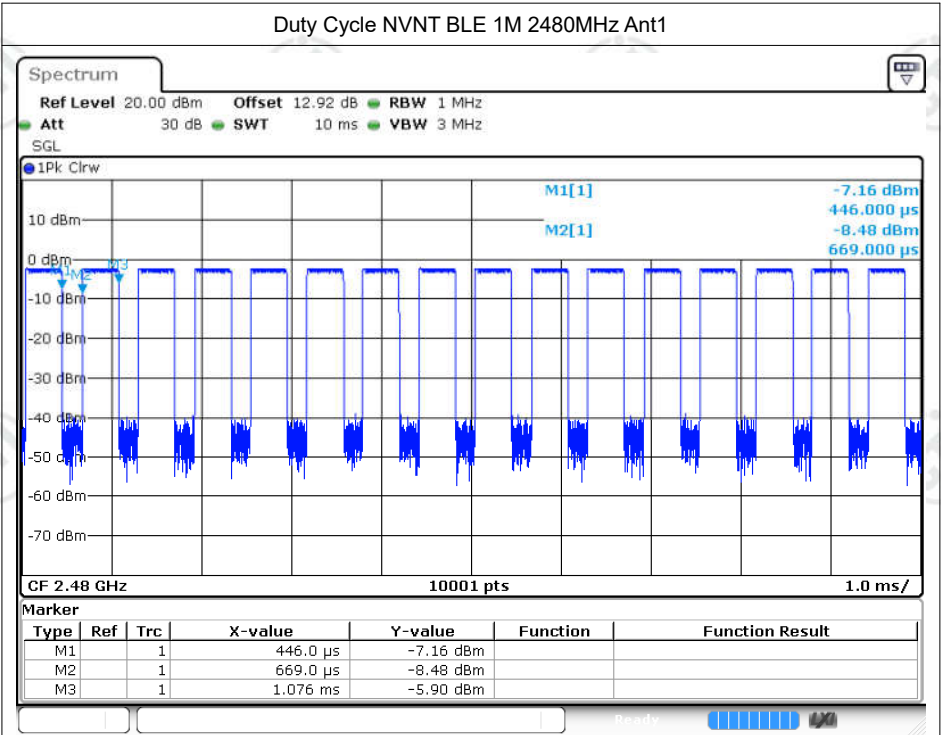
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	65.75	1.82	2.46
NVNT	BLE 1M	2440	Ant1	65.81	1.82	2.45
NVNT	BLE 1M	2480	Ant1	64.6	1.9	2.46
NVNT	BLE 2M	2402	Ant1	33.81	4.71	4.69
NVNT	BLE 2M	2440	Ant1	33.91	4.7	4.67
NVNT	BLE 2M	2480	Ant1	34.52	4.62	4.67



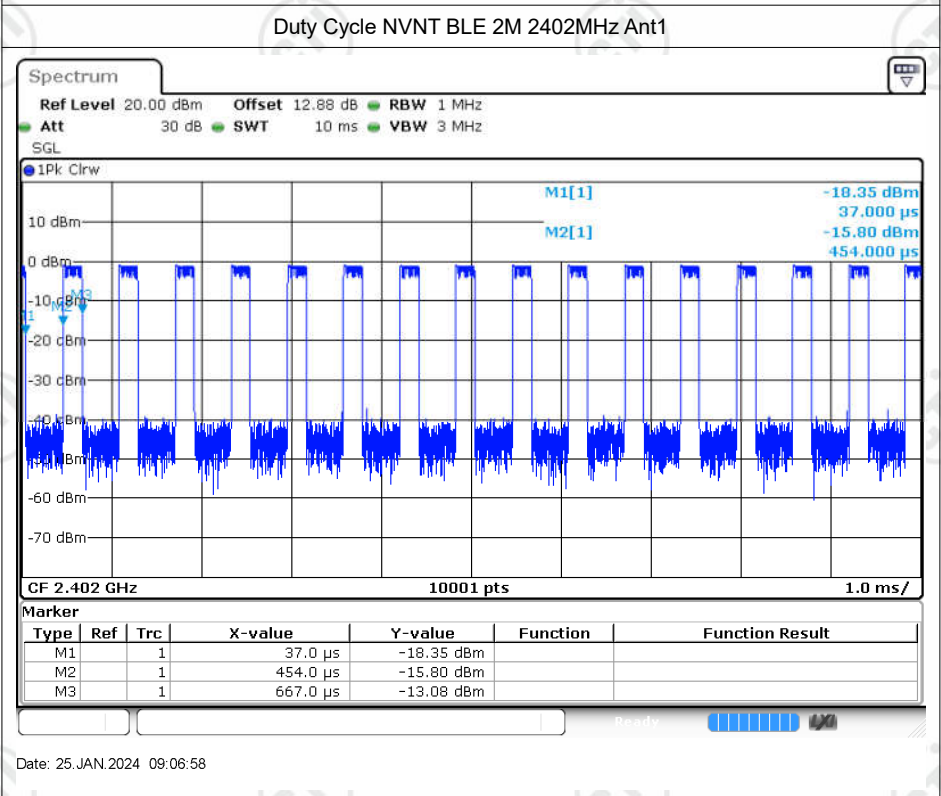
Date: 25.JAN.2024 08:45:16



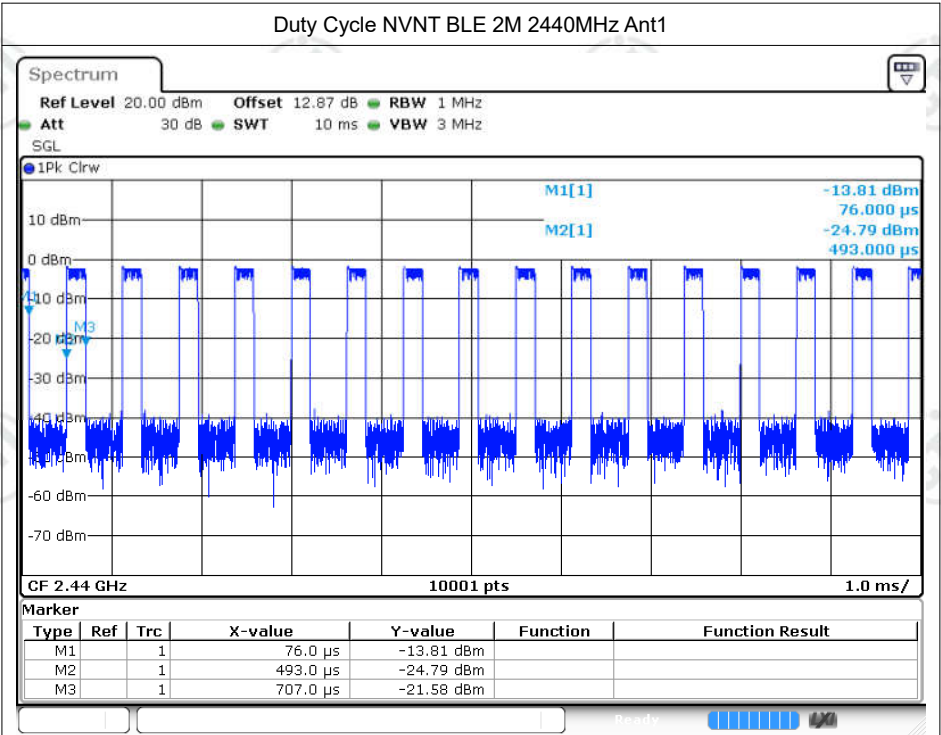
Date: 25.JAN.2024 08:47:14



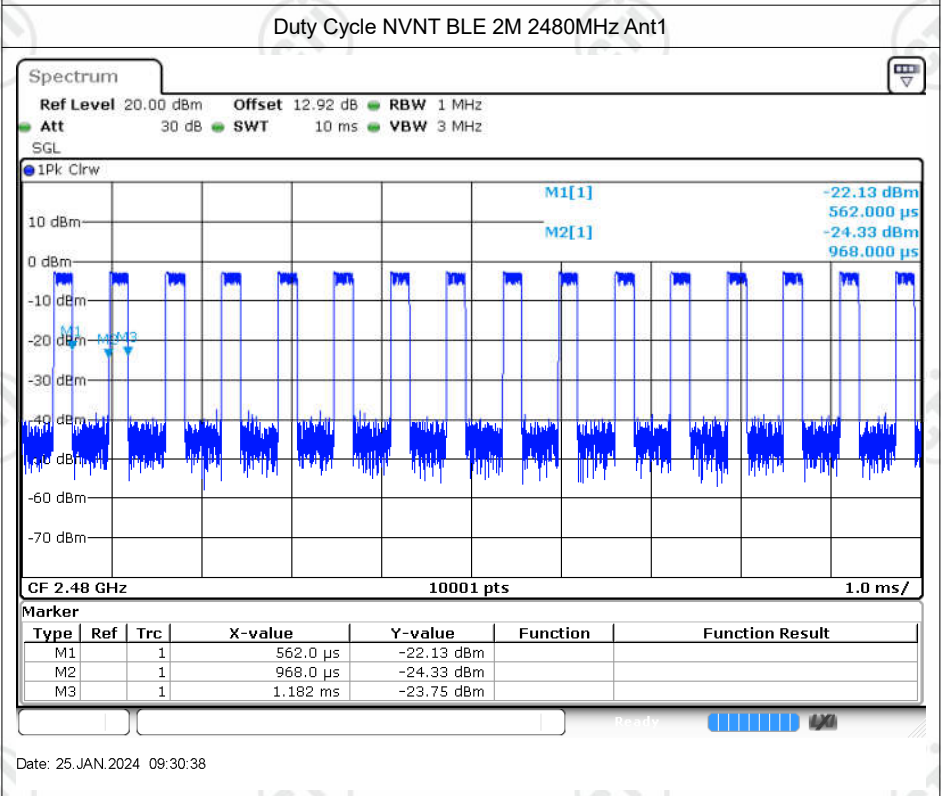
Date: 25.JAN.2024 08:48:52



Date: 25.JAN.2024 09:06:58



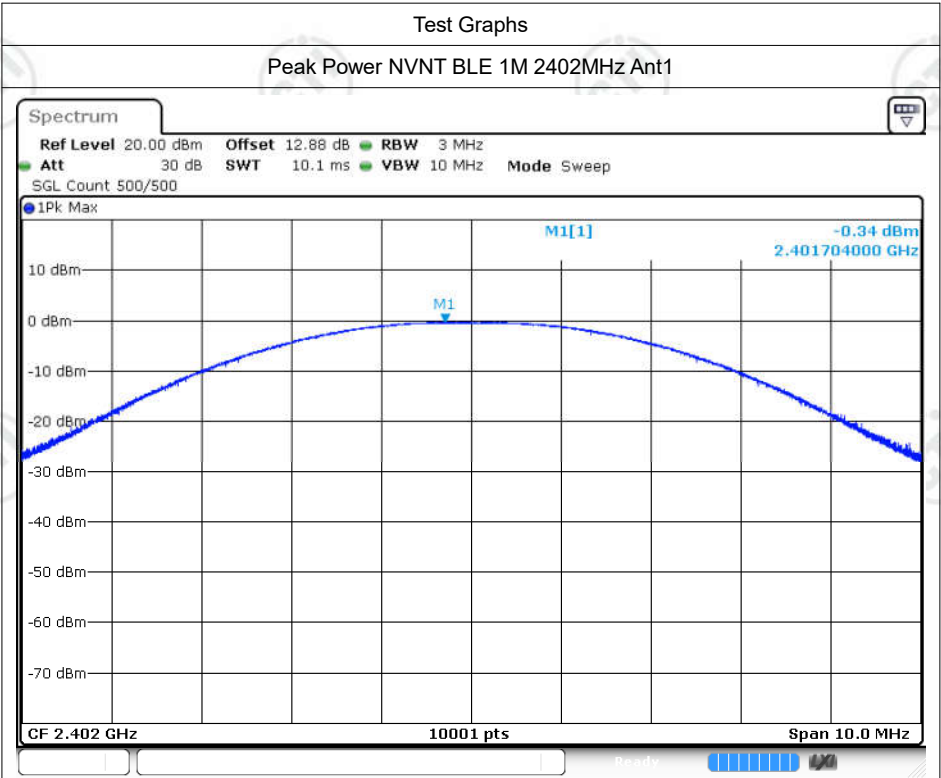
Date: 25.JAN.2024 09:30:20



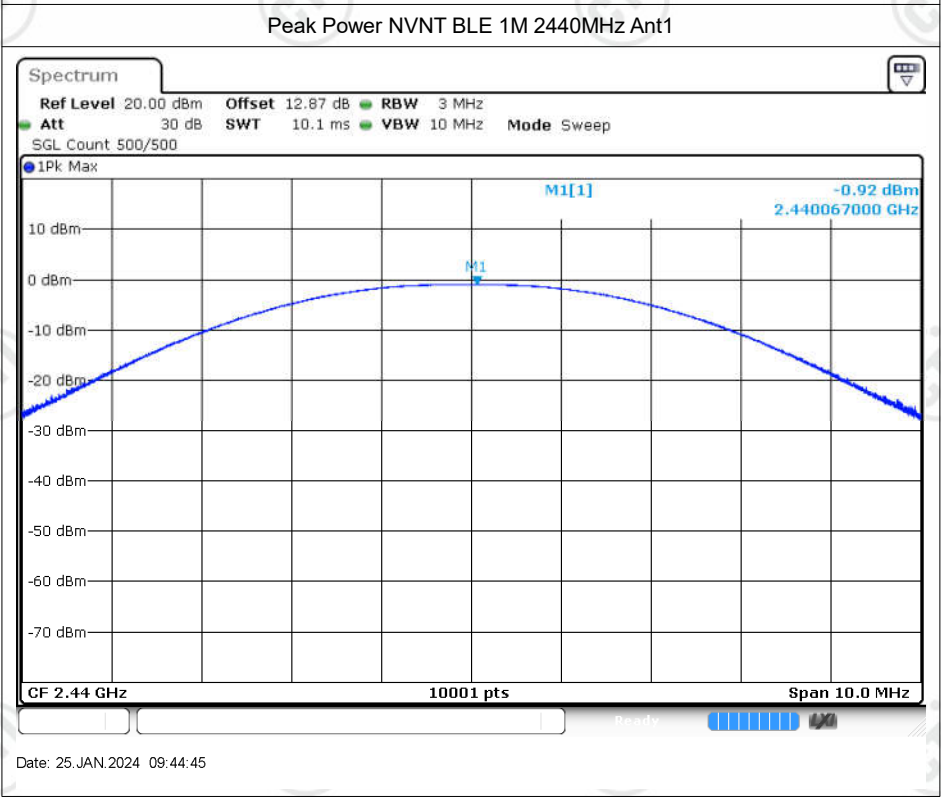
Date: 25.JAN.2024 09:30:38

Maximum Peak Conducted Output Power

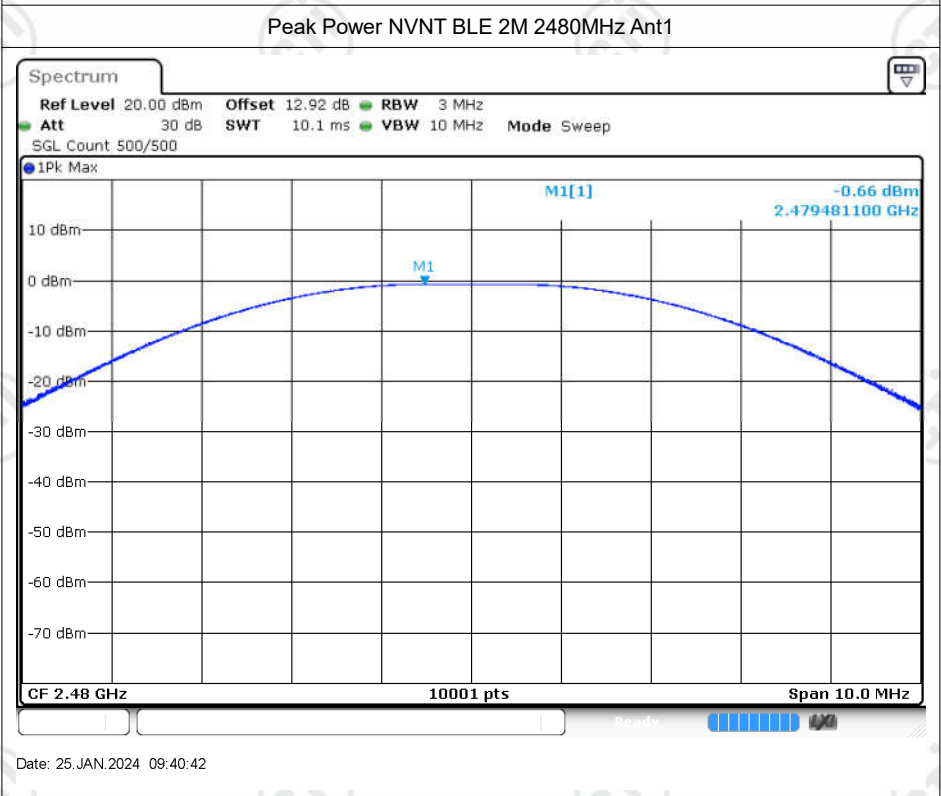
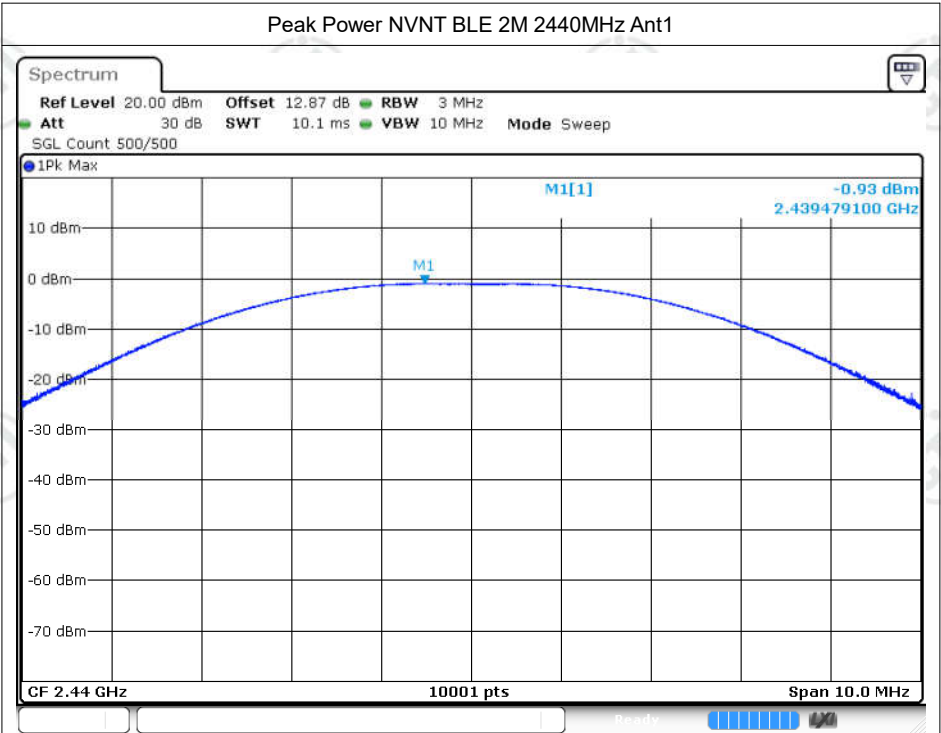
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.34	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.92	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.68	30	Pass
NVNT	BLE 2M	2402	Ant1	-0.52	30	Pass
NVNT	BLE 2M	2440	Ant1	-0.93	30	Pass
NVNT	BLE 2M	2480	Ant1	-0.66	30	Pass



Date: 25.JAN.2024 08:41:28

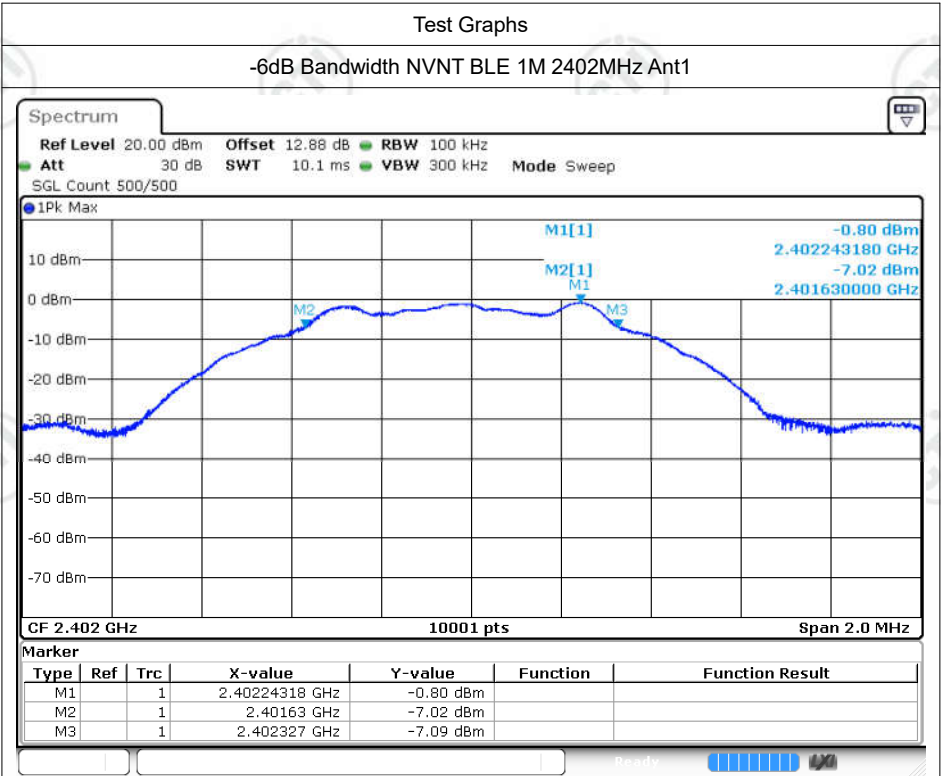


Date: 25.JAN.2024 09:44:45

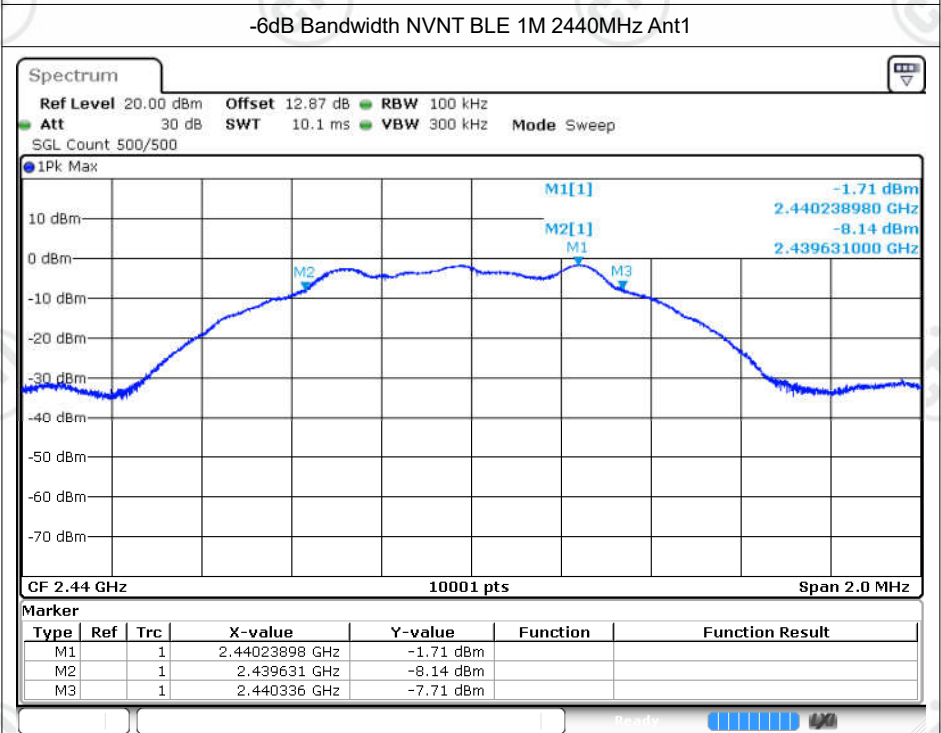


-6dB Bandwidth

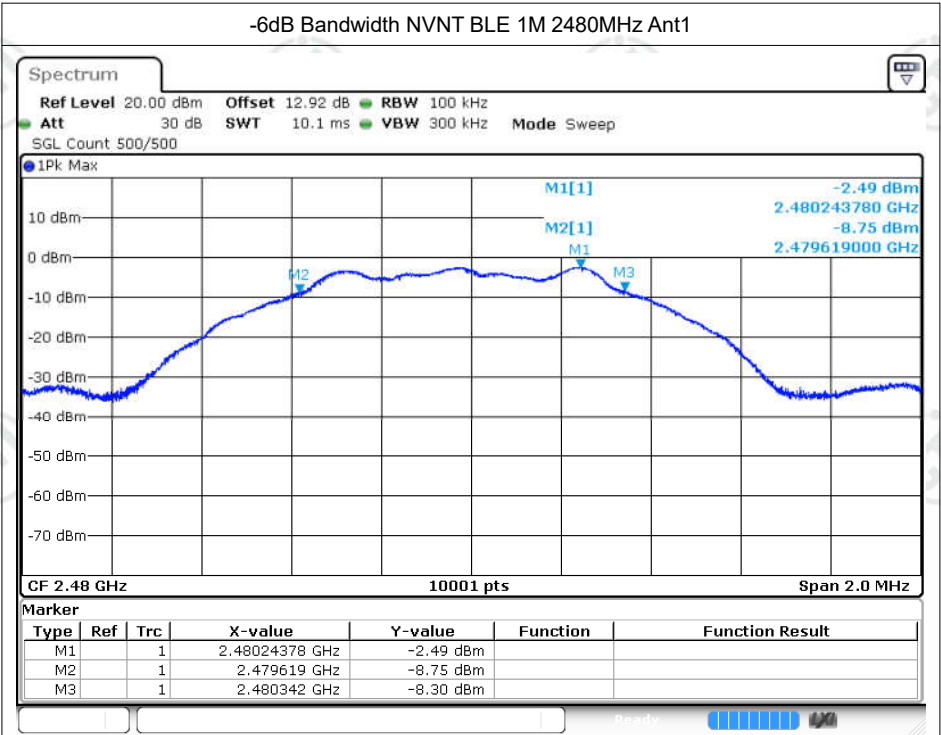
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.696	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.705	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.723	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.151	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.15	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.15	0.5	Pass



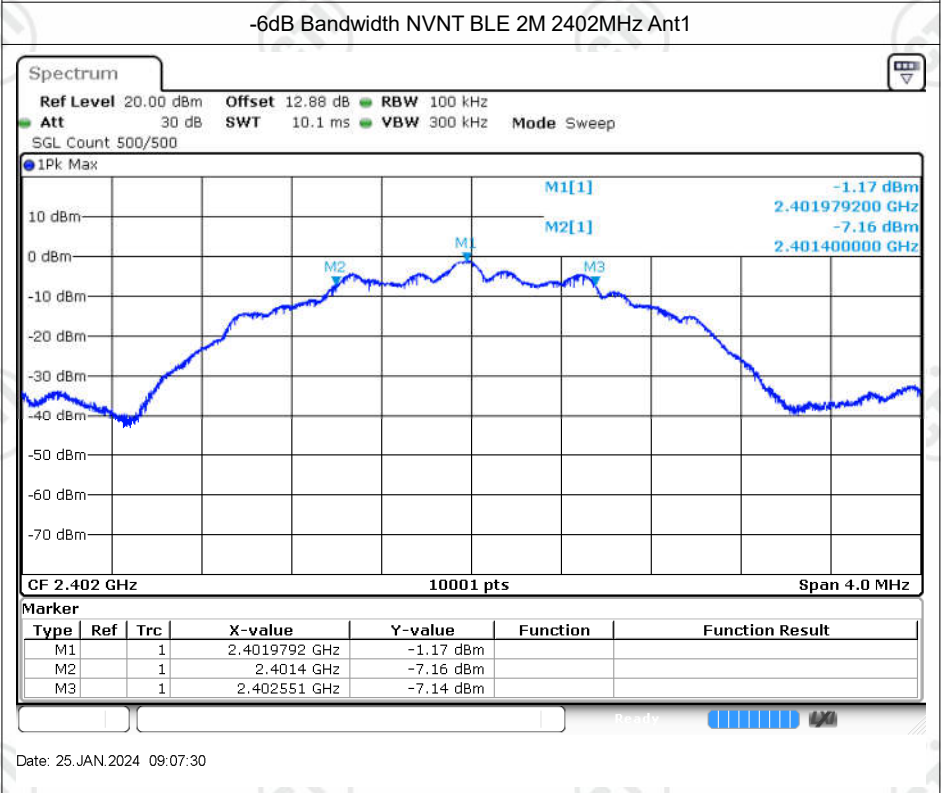
Date: 25.JAN.2024 08:45:38



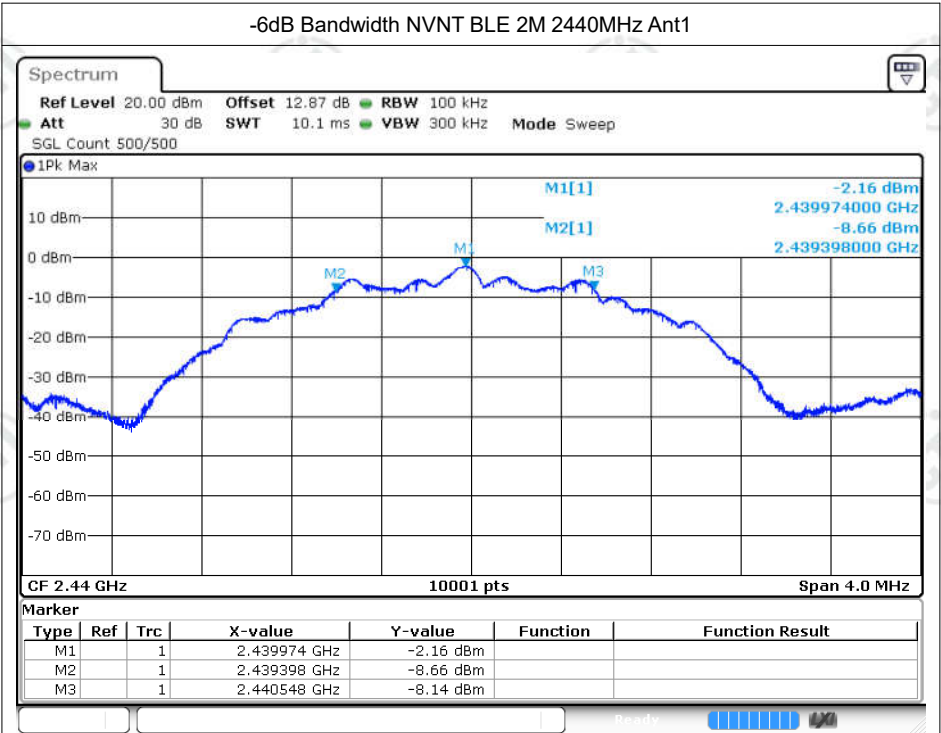
Date: 25.JAN.2024 08:47:47



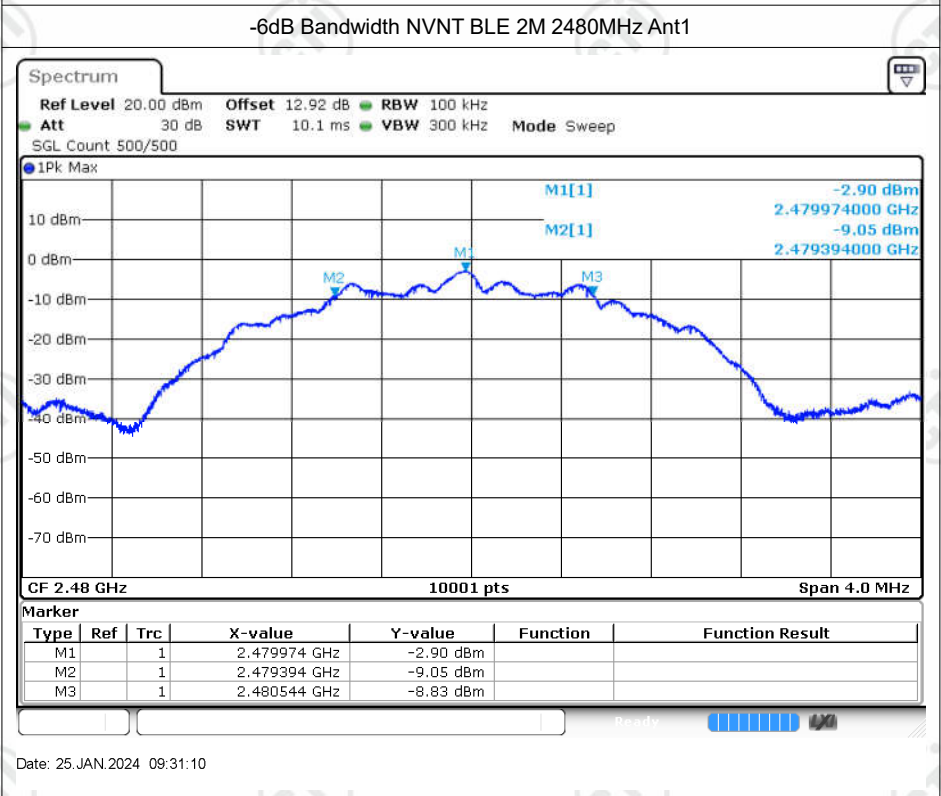
Date: 25. JAN. 2024 08:49:24



Date: 25. JAN. 2024 09:07:30



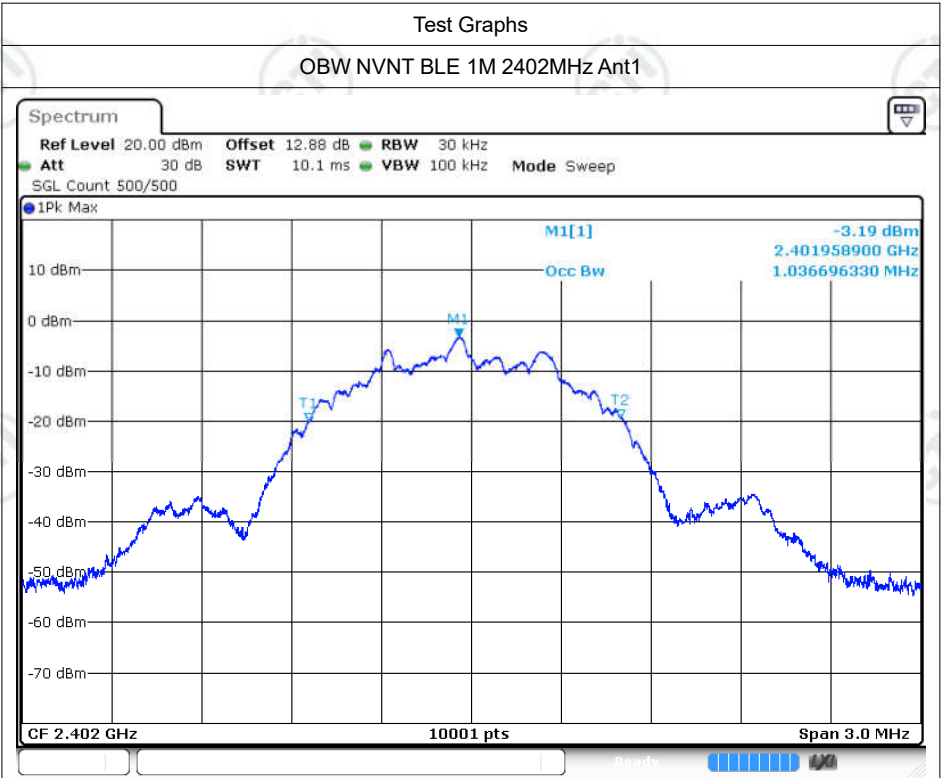
Date: 25. JAN. 2024 09:29:00



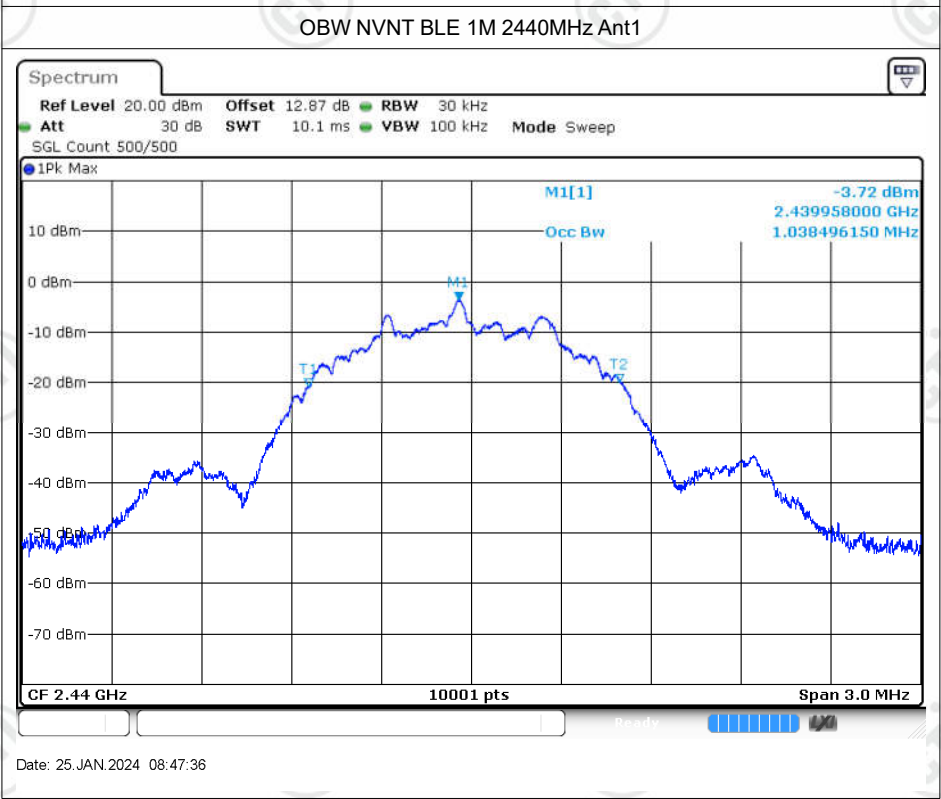
Date: 25. JAN. 2024 09:31:10

Occupied Channel Bandwidth

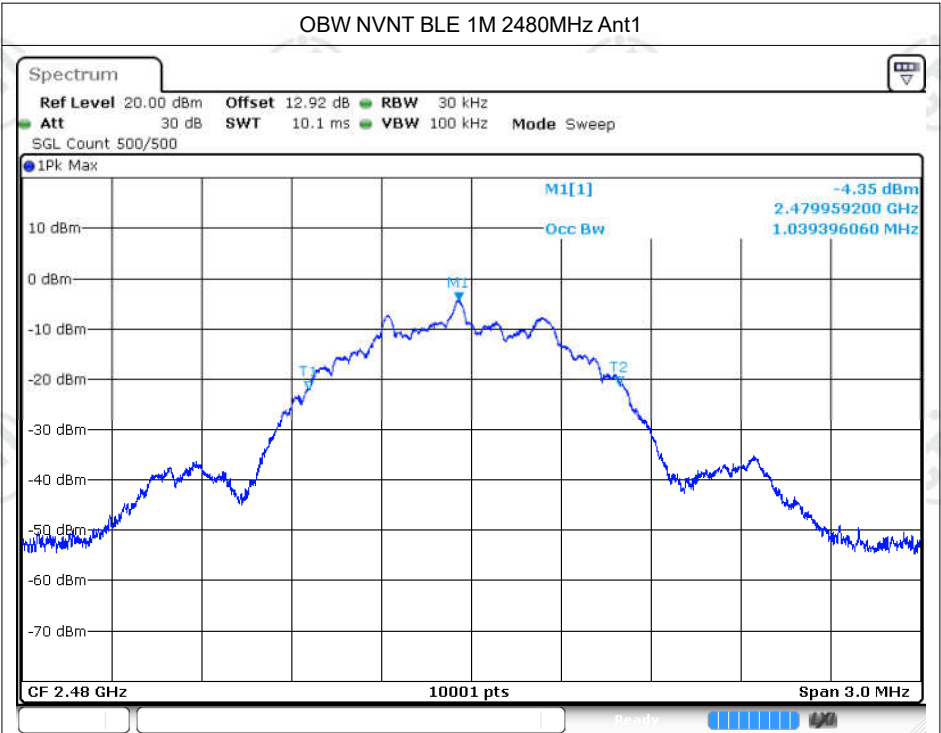
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.037
NVNT	BLE 1M	2440	Ant1	1.038
NVNT	BLE 1M	2480	Ant1	1.039
NVNT	BLE 2M	2402	Ant1	2.047
NVNT	BLE 2M	2440	Ant1	2.052
NVNT	BLE 2M	2480	Ant1	2.057



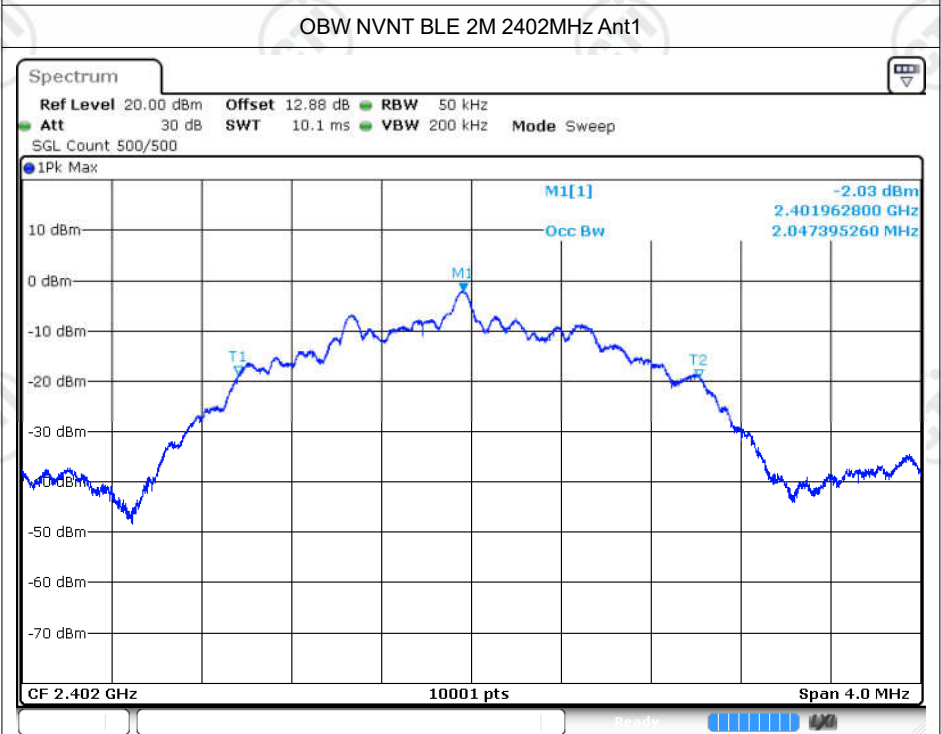
Date: 25.JAN.2024 08:45:27



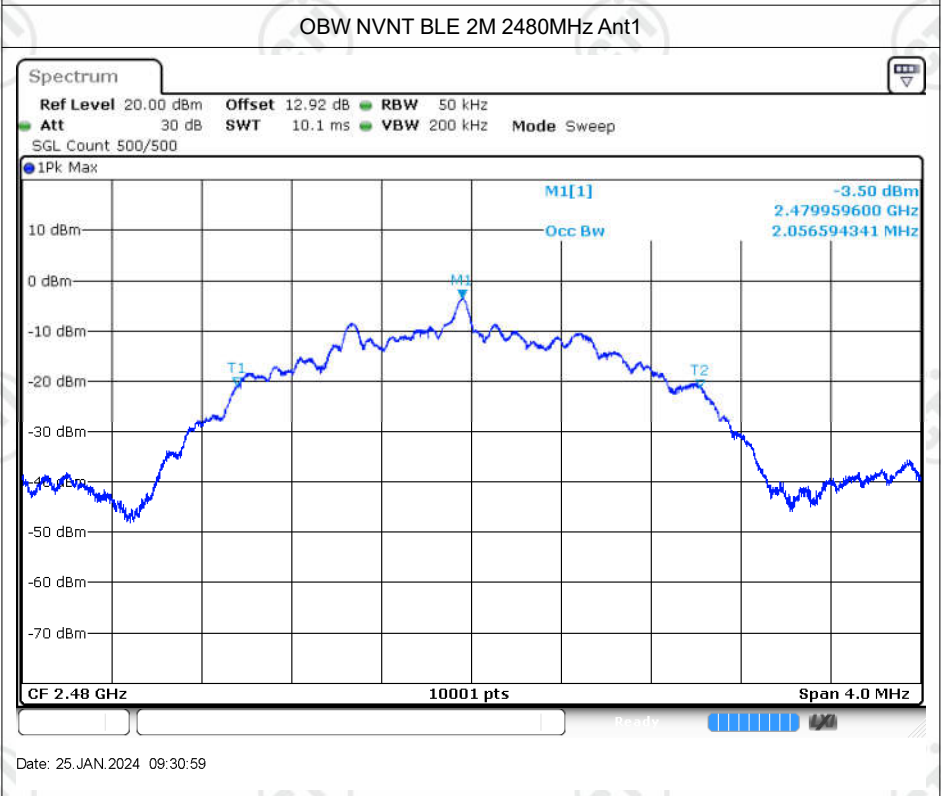
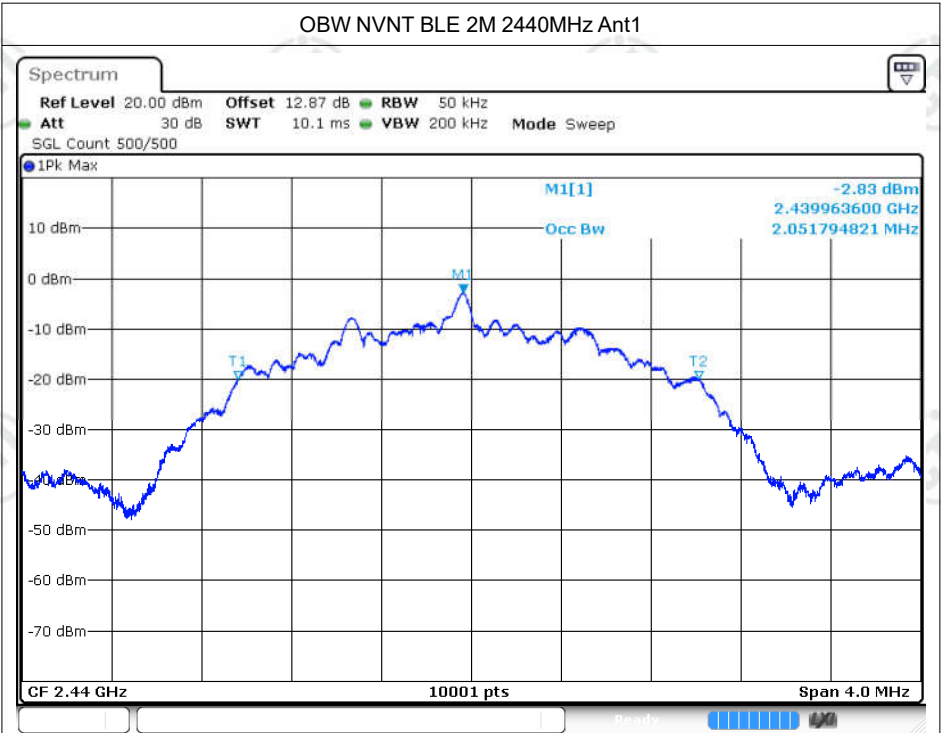
Date: 25.JAN.2024 08:47:36



Date: 25. JAN. 2024 08:49:13

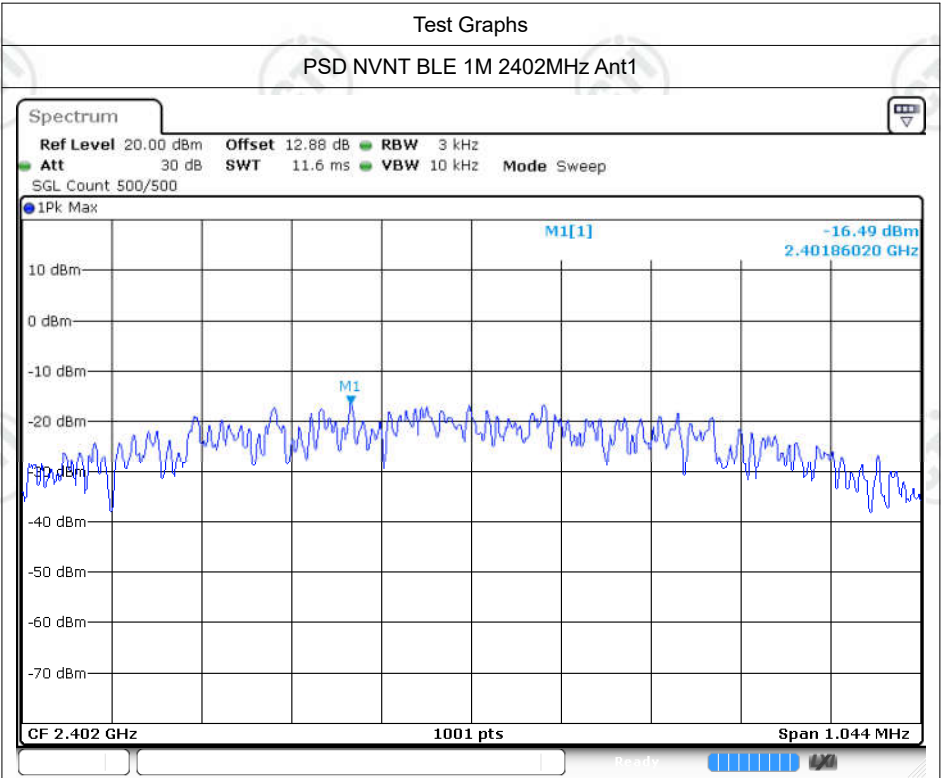


Date: 25. JAN. 2024 09:07:19

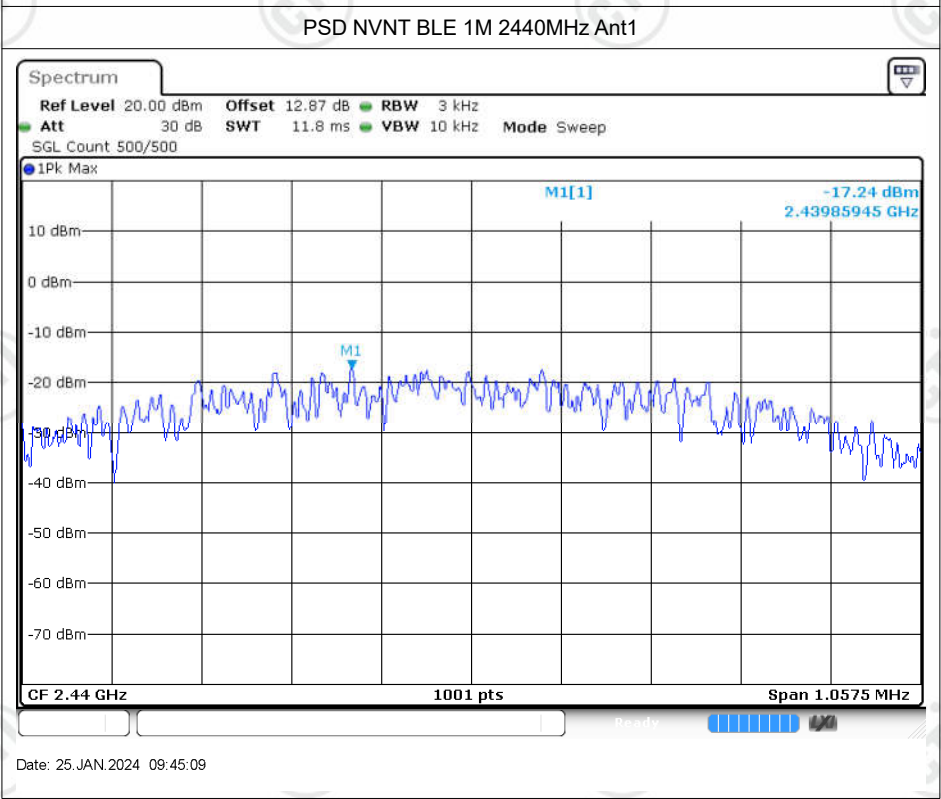


Maximum Power Spectral Density Level

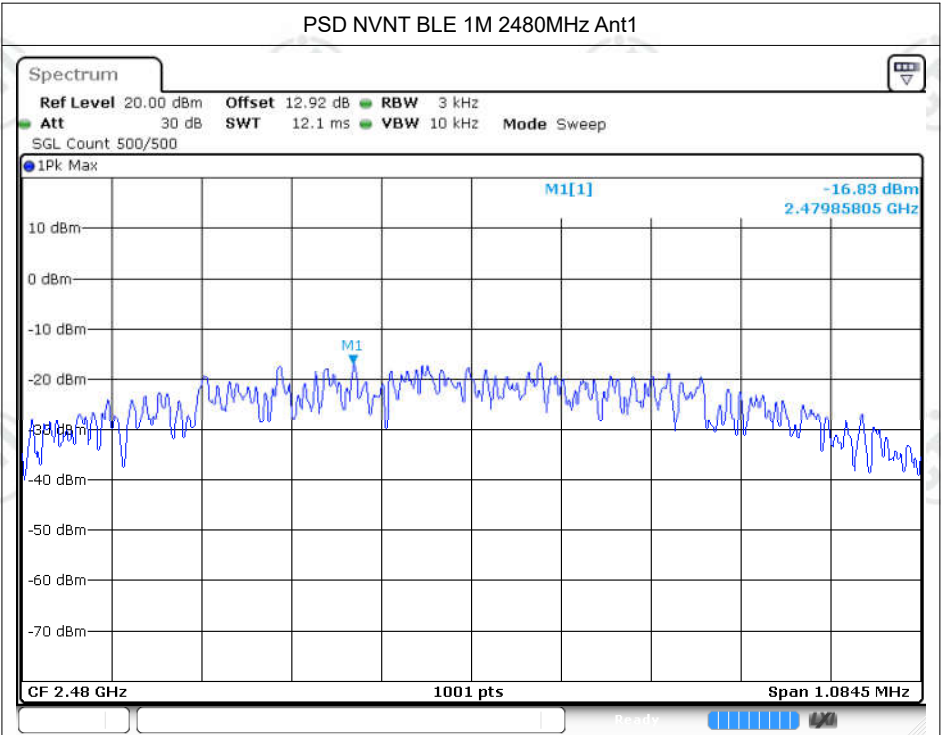
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-16.49	8	Pass
NVNT	BLE 1M	2440	Ant1	-17.24	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.83	8	Pass
NVNT	BLE 2M	2402	Ant1	-18.91	8	Pass
NVNT	BLE 2M	2440	Ant1	-19.33	8	Pass
NVNT	BLE 2M	2480	Ant1	-19.26	8	Pass



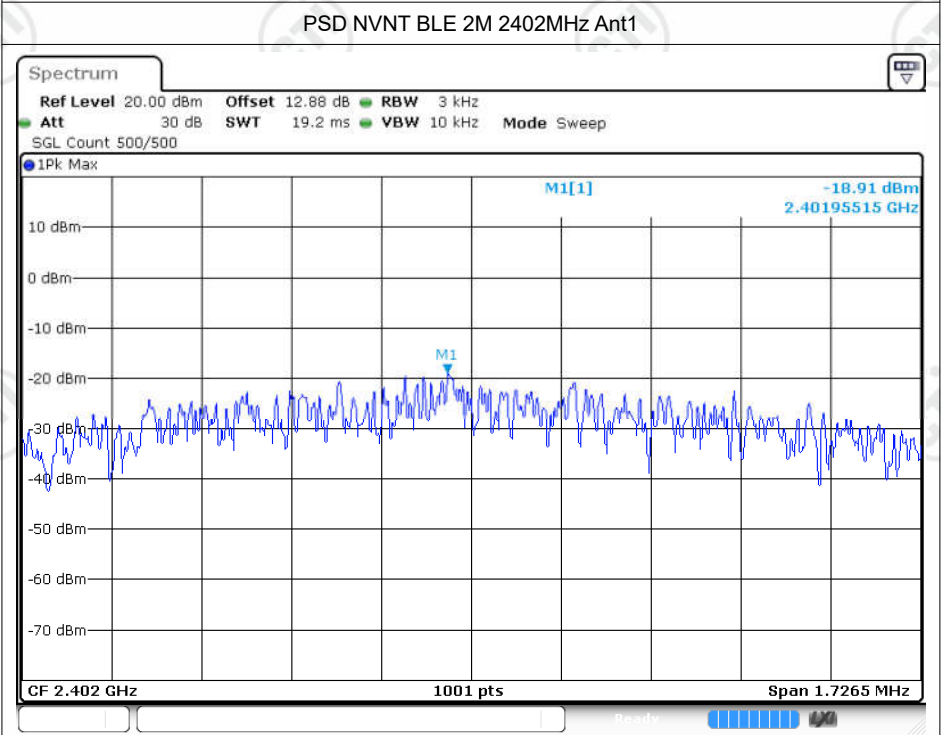
Date: 25.JAN.2024 08:45:56



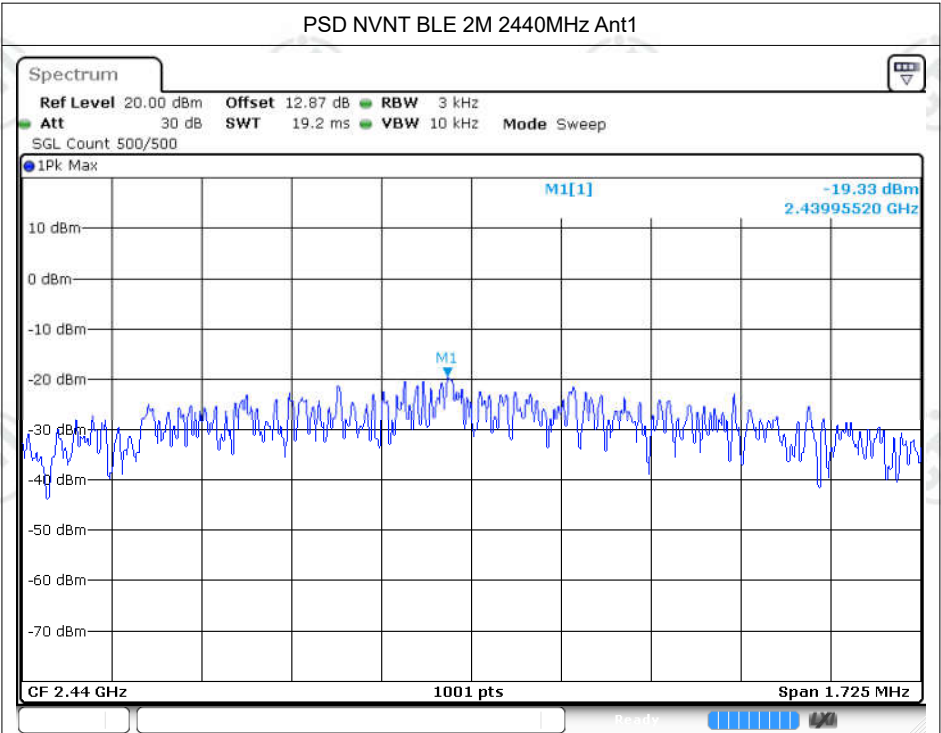
Date: 25.JAN.2024 09:45:09



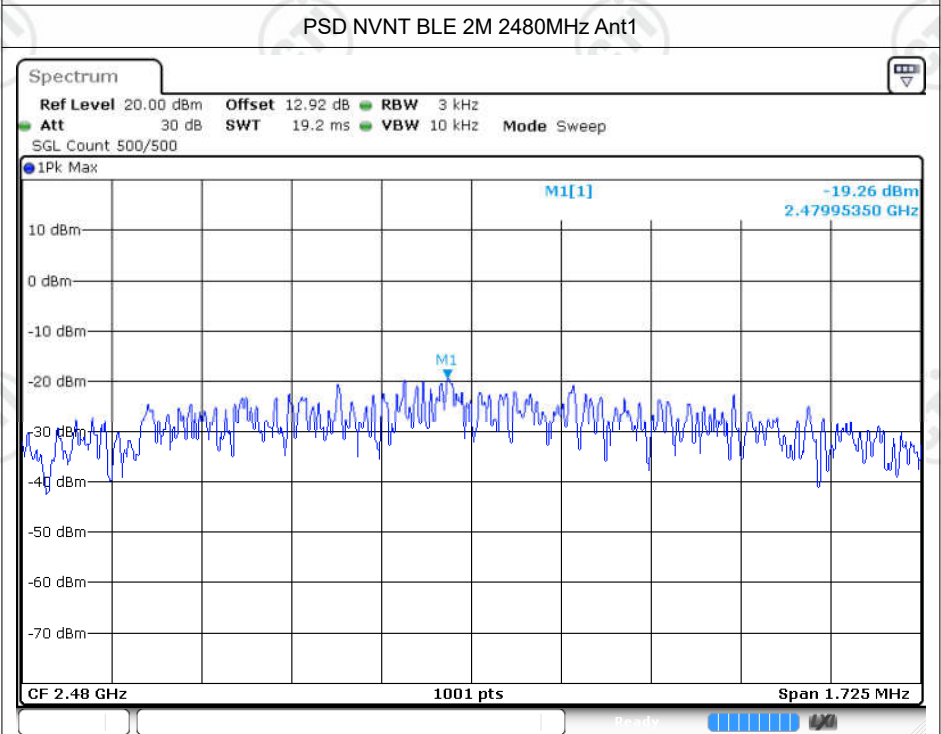
Date: 25. JAN. 2024 09:39:14



Date: 25. JAN. 2024 09:07:52



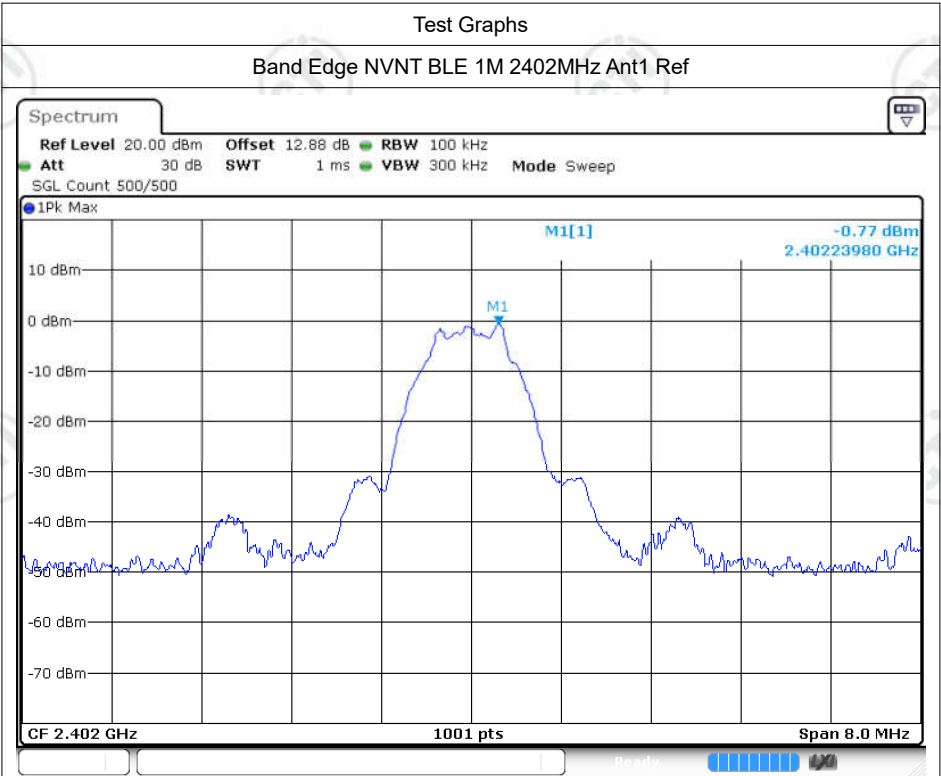
Date: 25. JAN. 2024 09:43:26



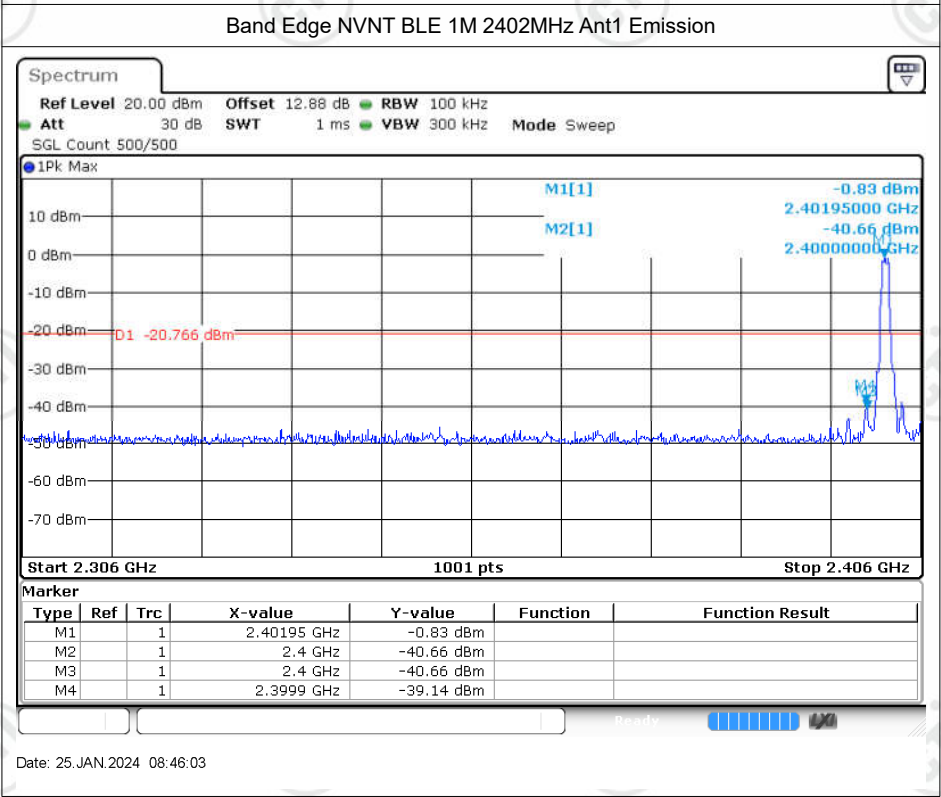
Date: 25. JAN. 2024 09:41:13

Band Edge

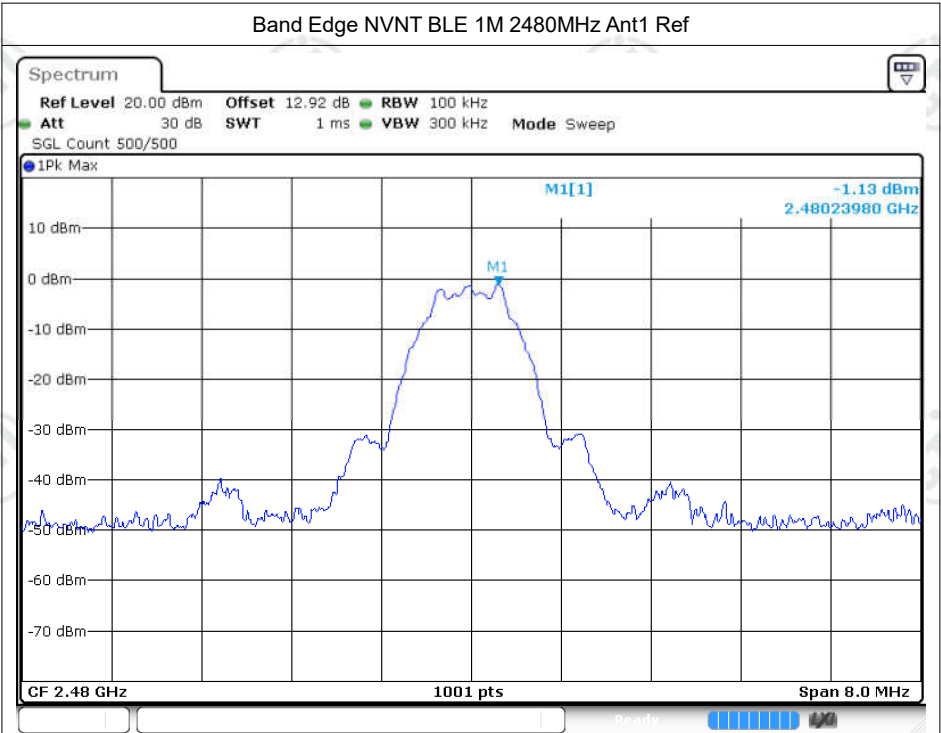
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-38.36	-20	Pass
NVNT	BLE 1M	2480	Ant1	-45.07	-20	Pass
NVNT	BLE 2M	2402	Ant1	-34.52	-20	Pass
NVNT	BLE 2M	2480	Ant1	-42.14	-20	Pass



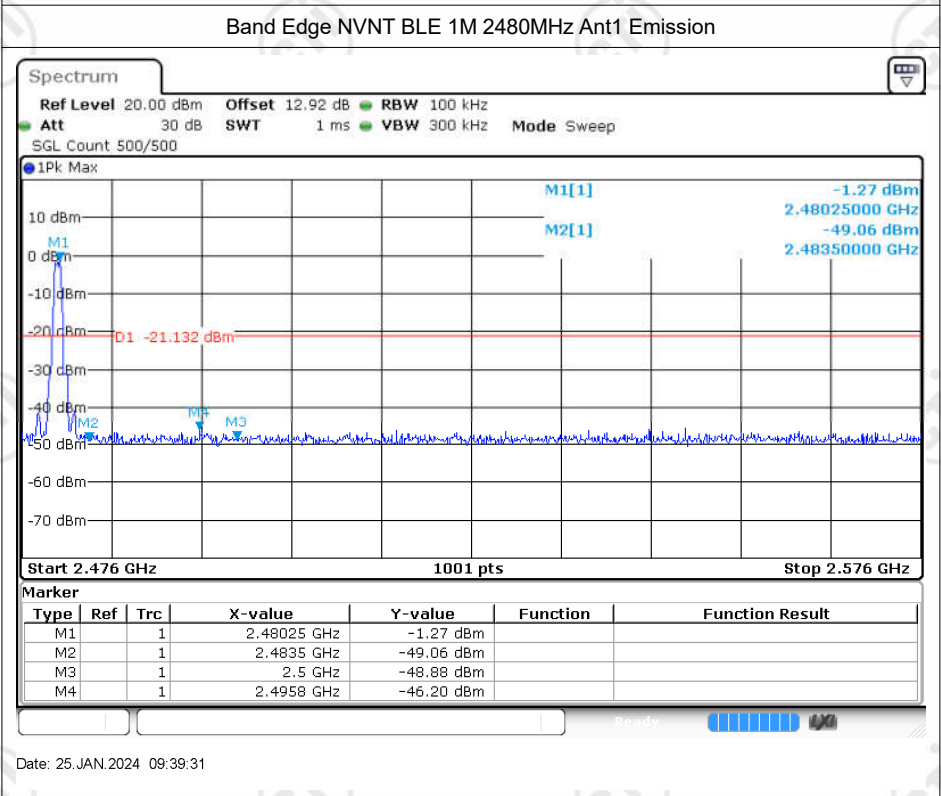
Date: 25.JAN.2024 08:45:59



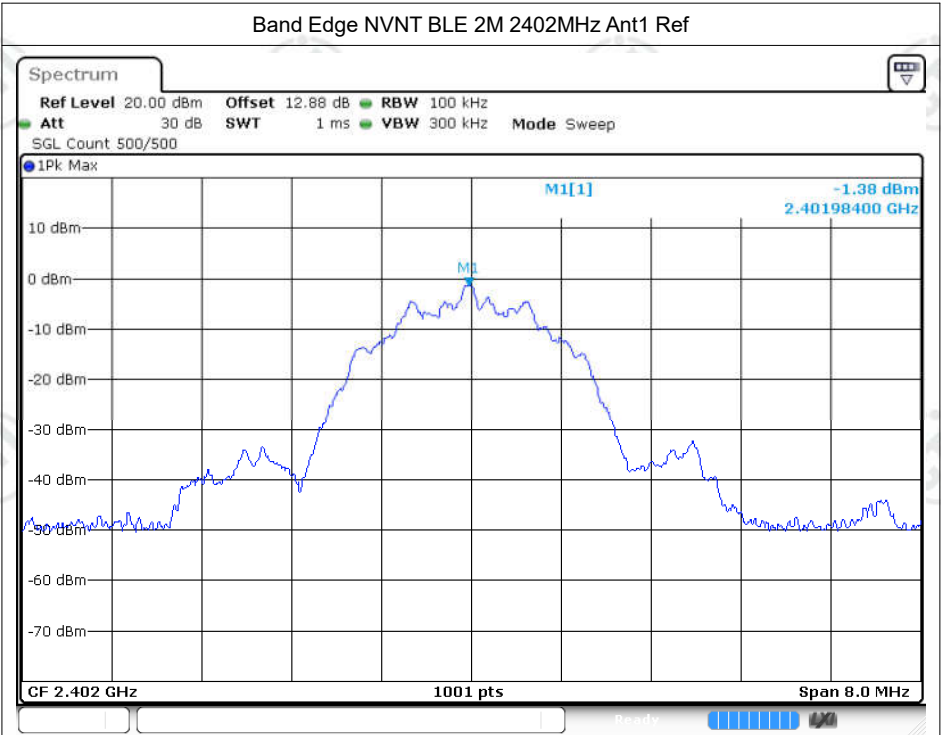
Date: 25.JAN.2024 08:46:03



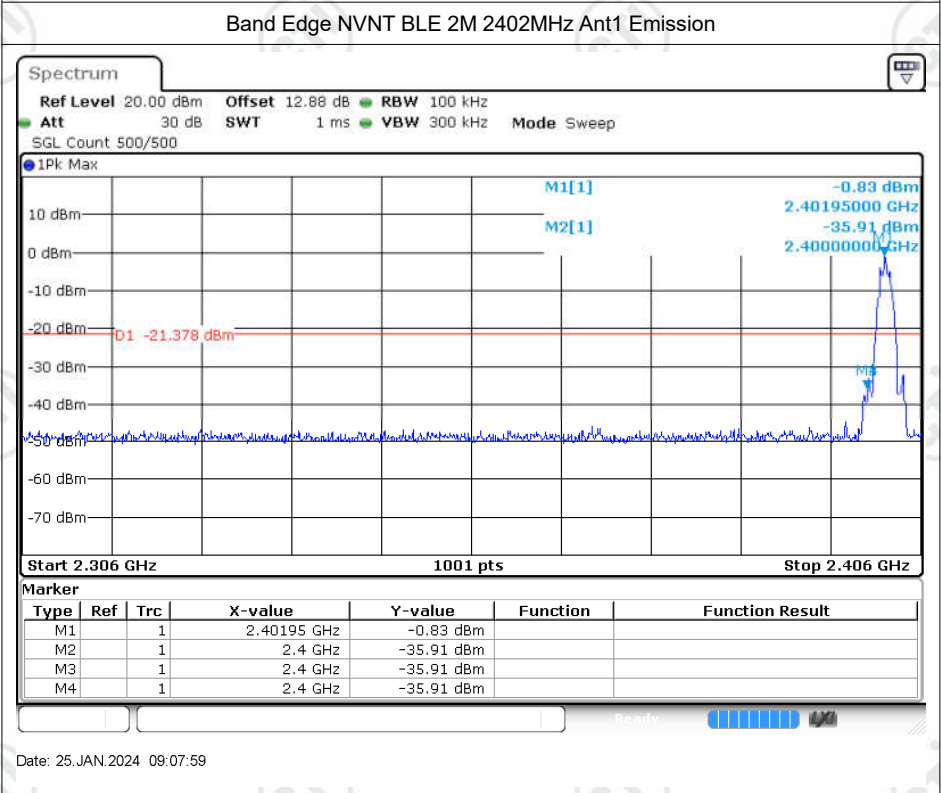
Date: 25. JAN. 2024 09:39:29



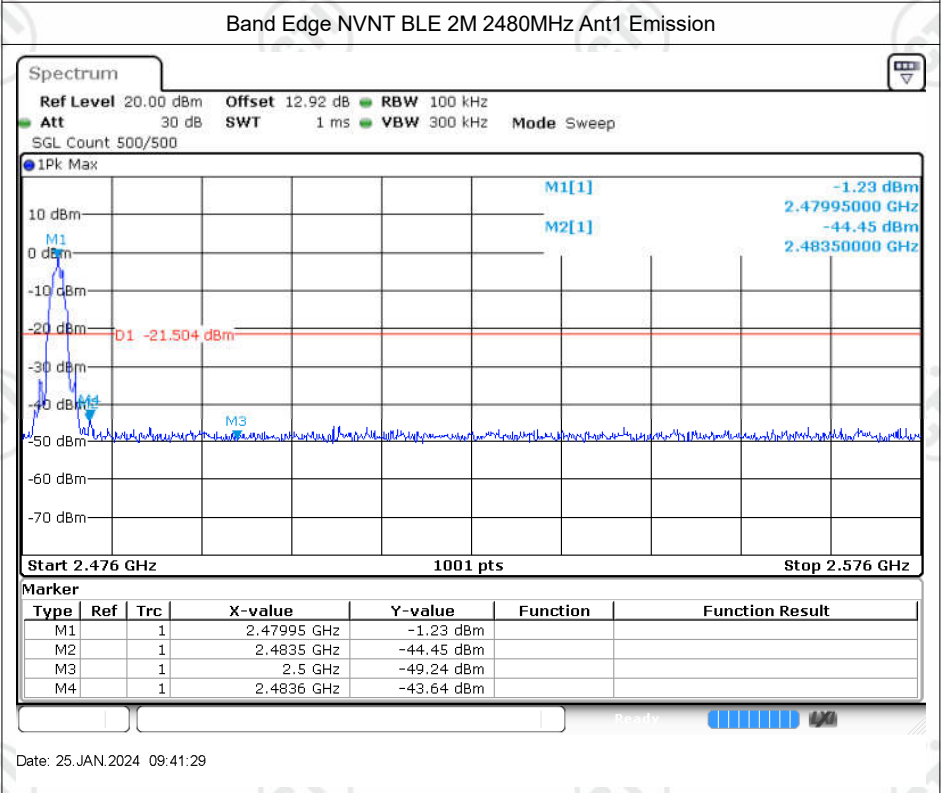
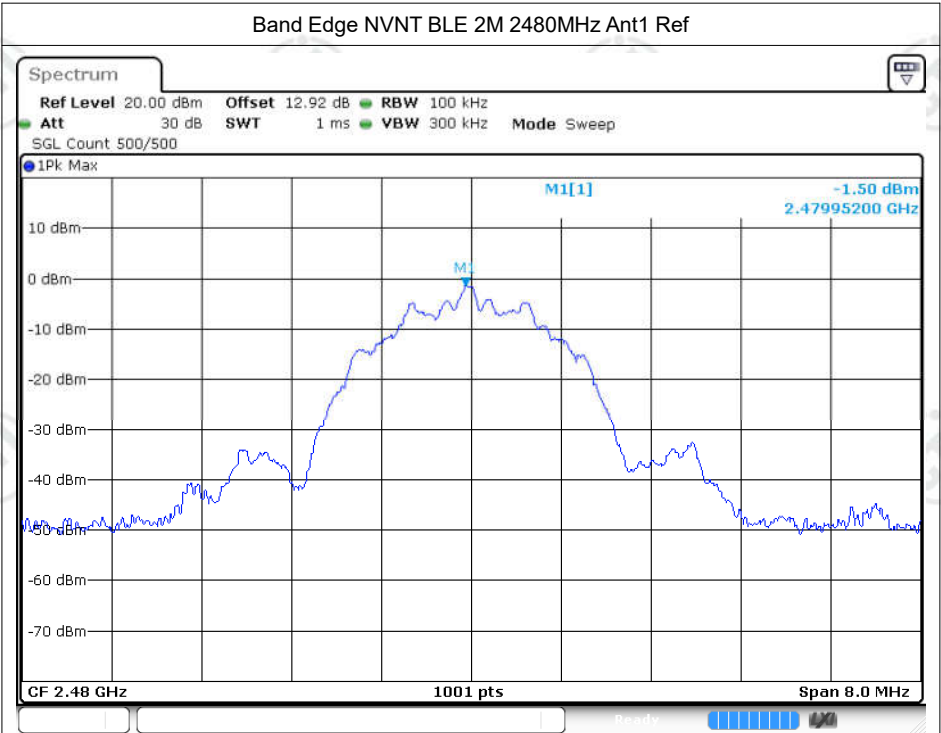
Date: 25. JAN. 2024 09:39:31



Date: 25. JAN. 2024 09:07:55

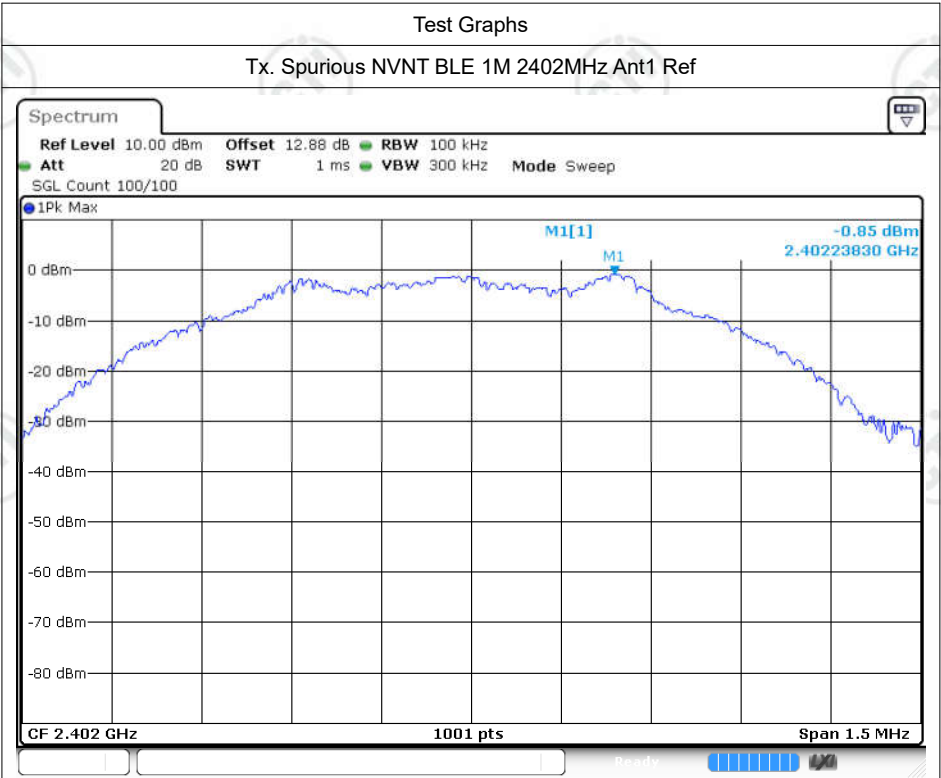


Date: 25. JAN. 2024 09:07:59

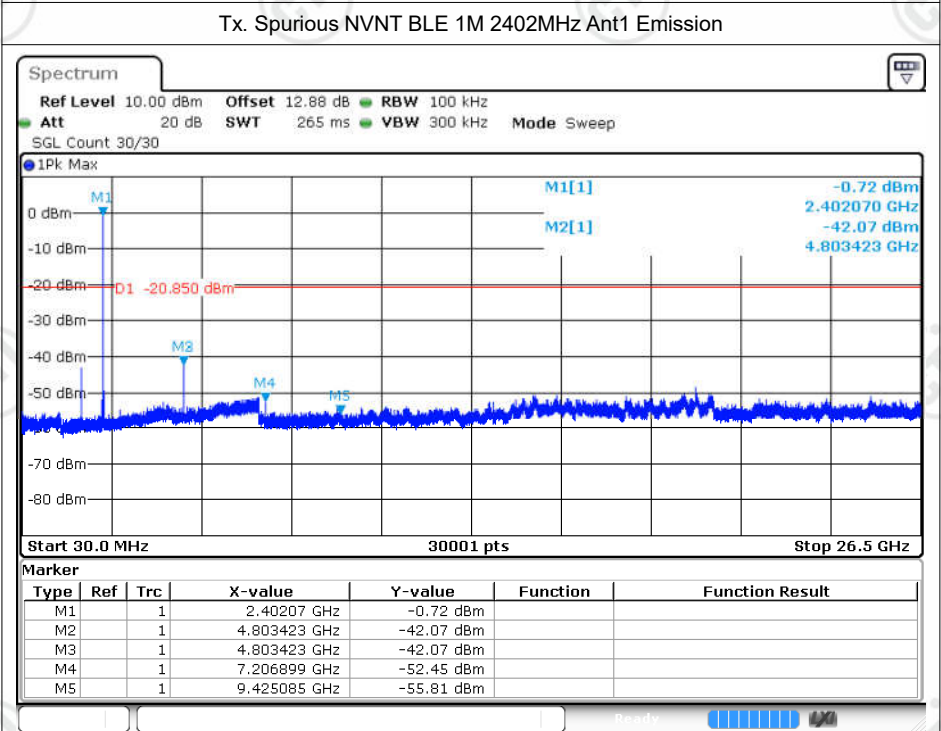


Conducted RF Spurious Emission

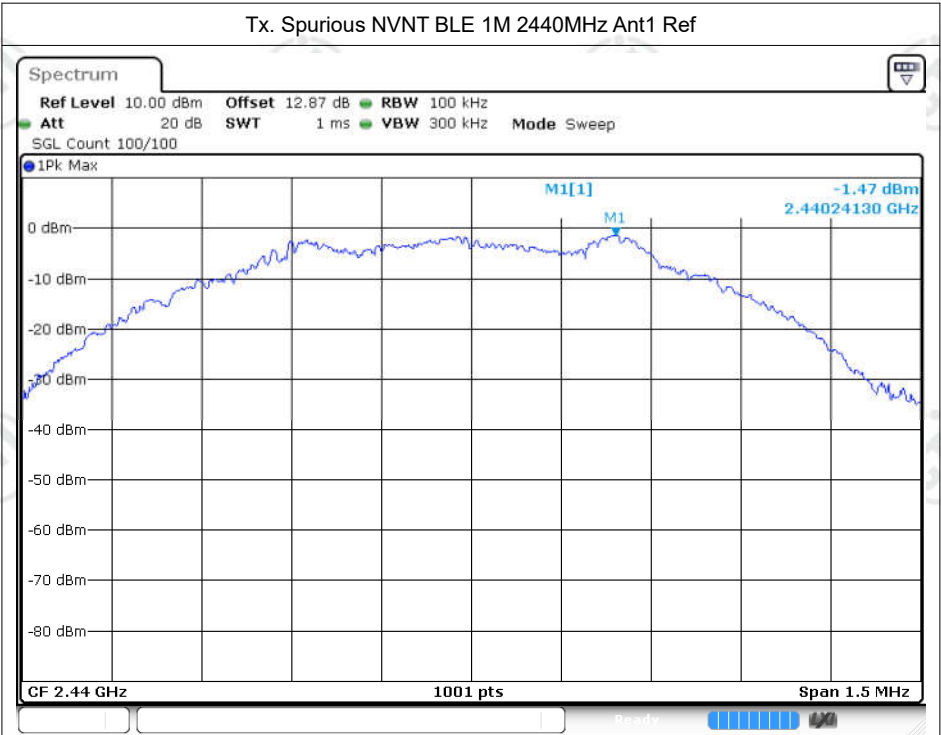
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-41.22	-20	Pass
NVNT	BLE 1M	2440	Ant1	-39.42	-20	Pass
NVNT	BLE 1M	2480	Ant1	-38.94	-20	Pass
NVNT	BLE 2M	2402	Ant1	-44.92	-20	Pass
NVNT	BLE 2M	2440	Ant1	-44.37	-20	Pass
NVNT	BLE 2M	2480	Ant1	-38.46	-20	Pass



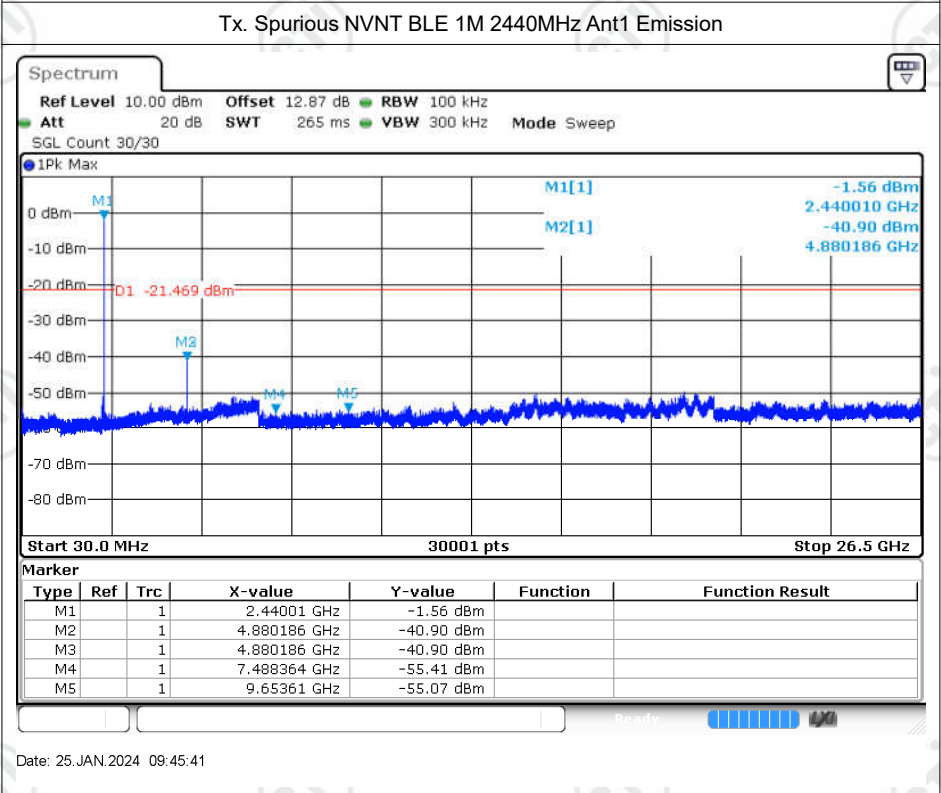
Date: 25.JAN.2024 08:46:06

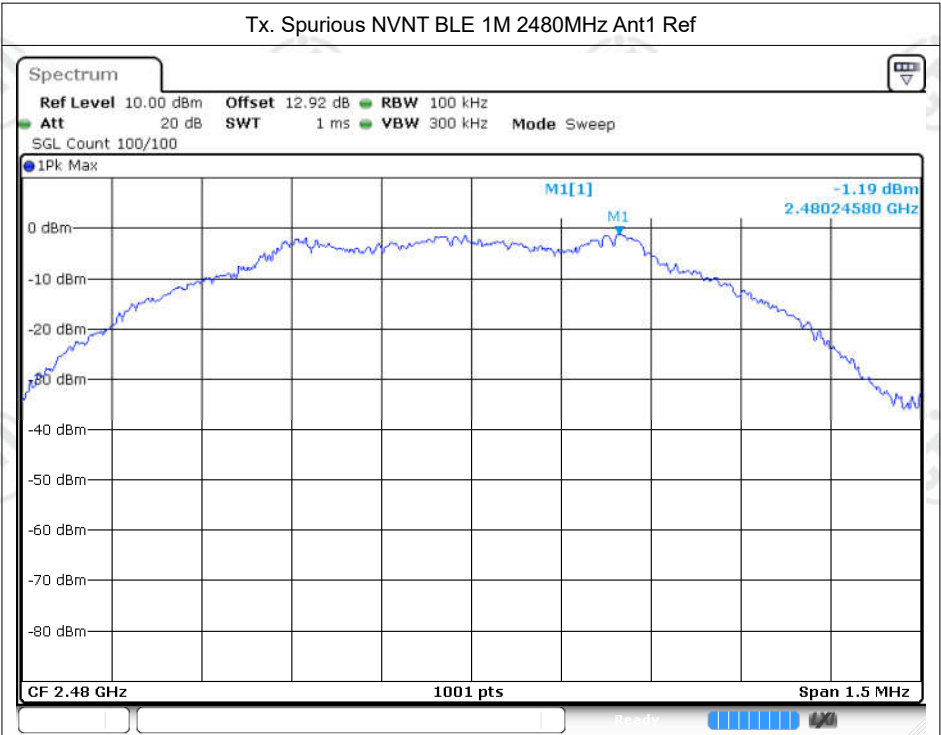


Date: 25.JAN.2024 08:46:35

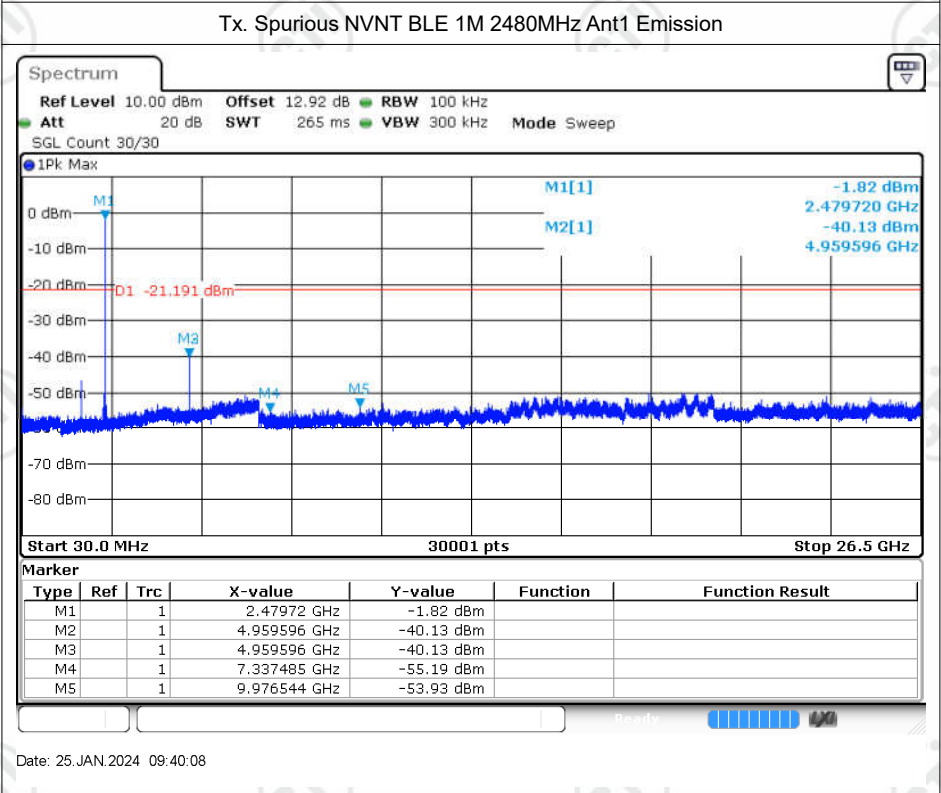


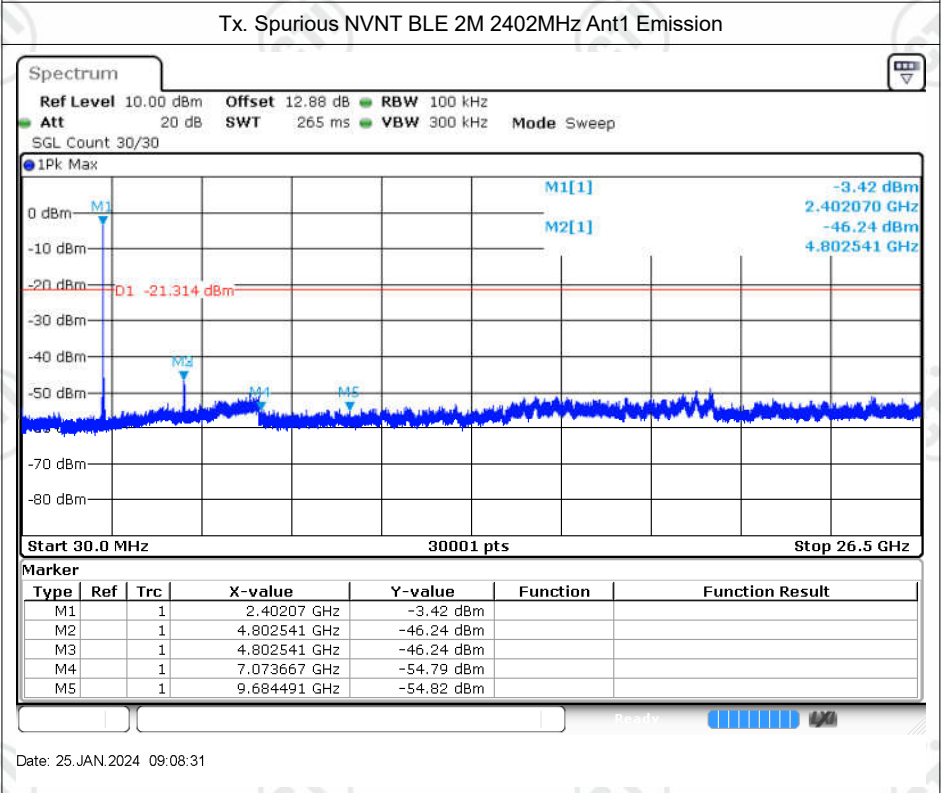
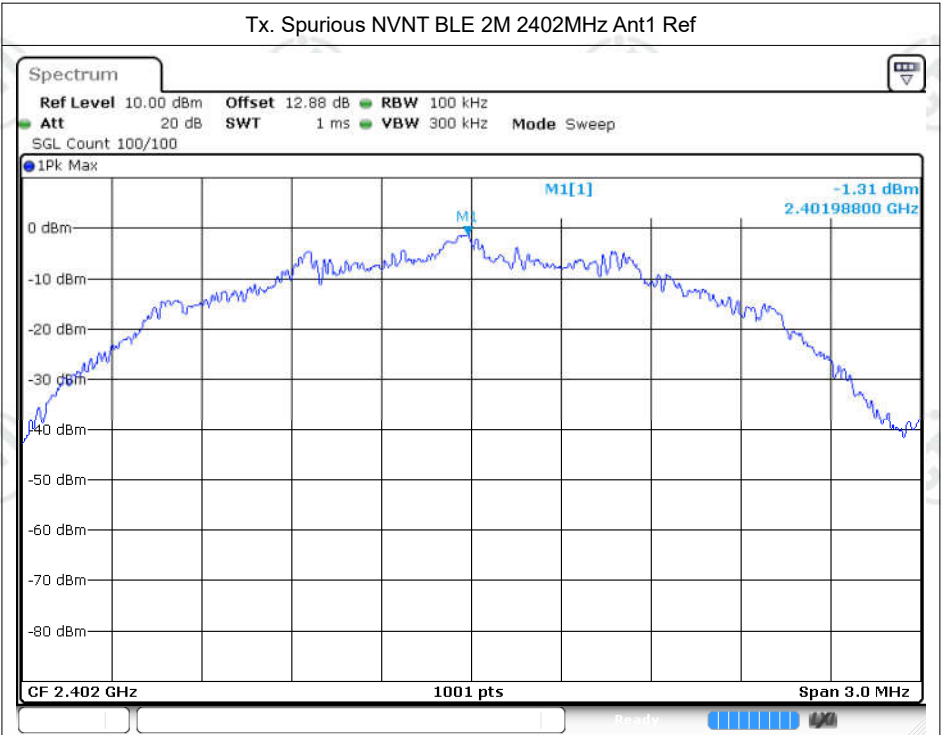
Date: 25.JAN.2024 09:45:11

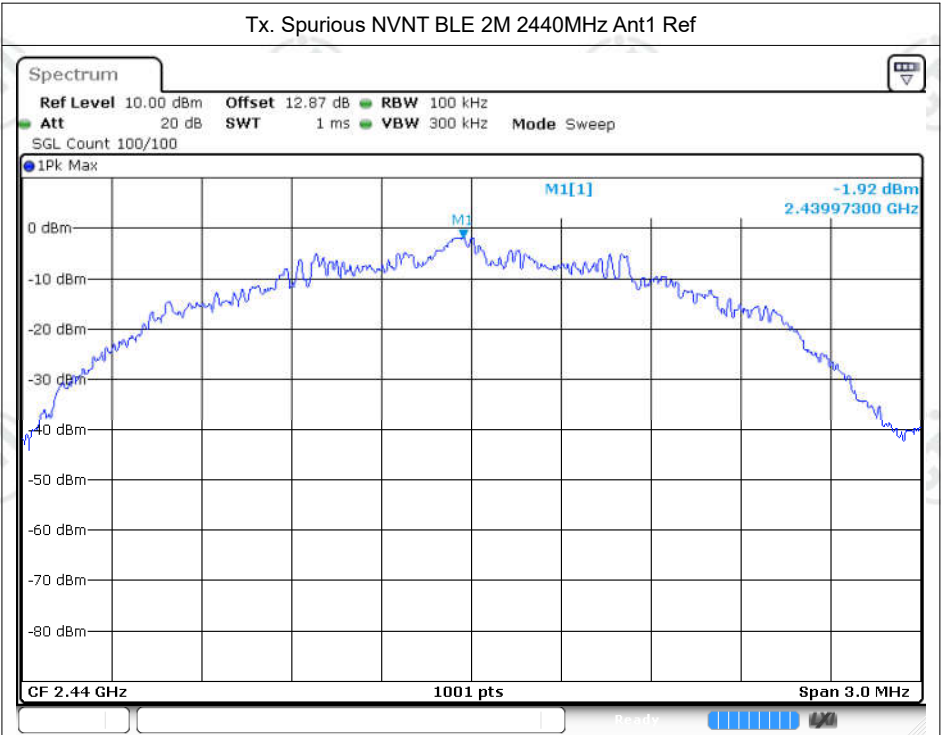




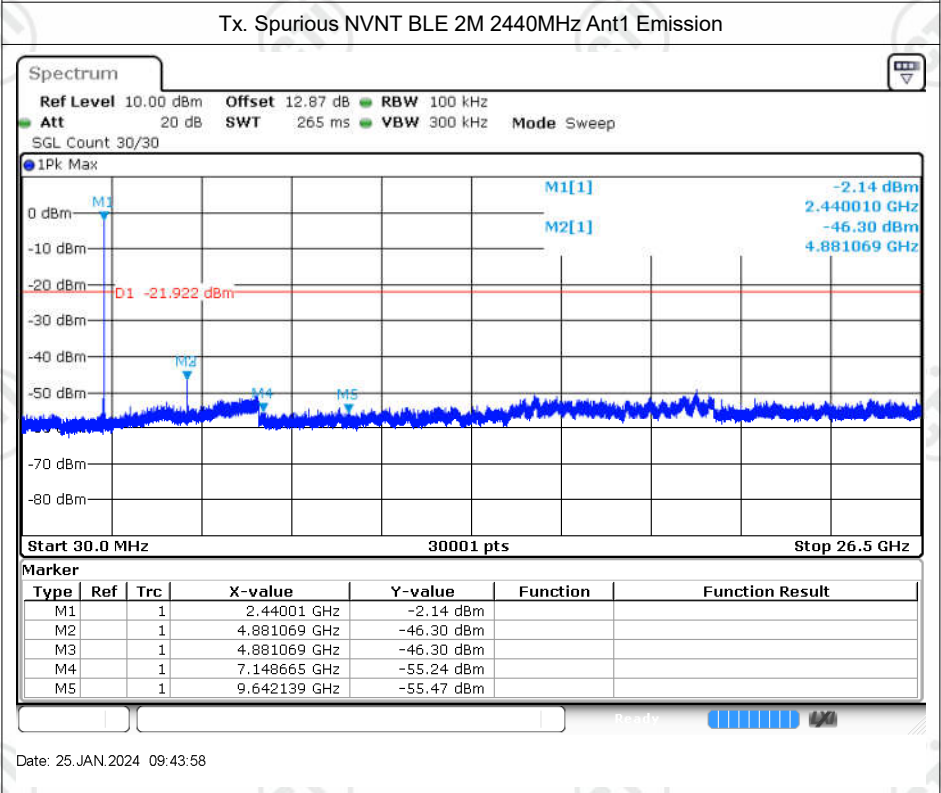
Date: 25.JAN.2024 09:39:39



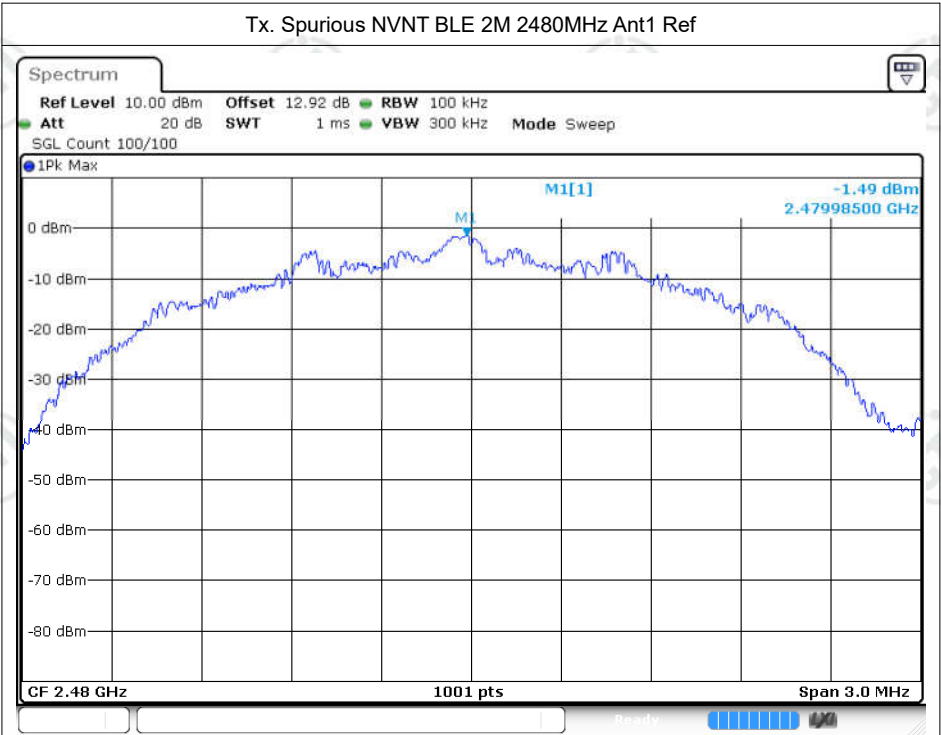




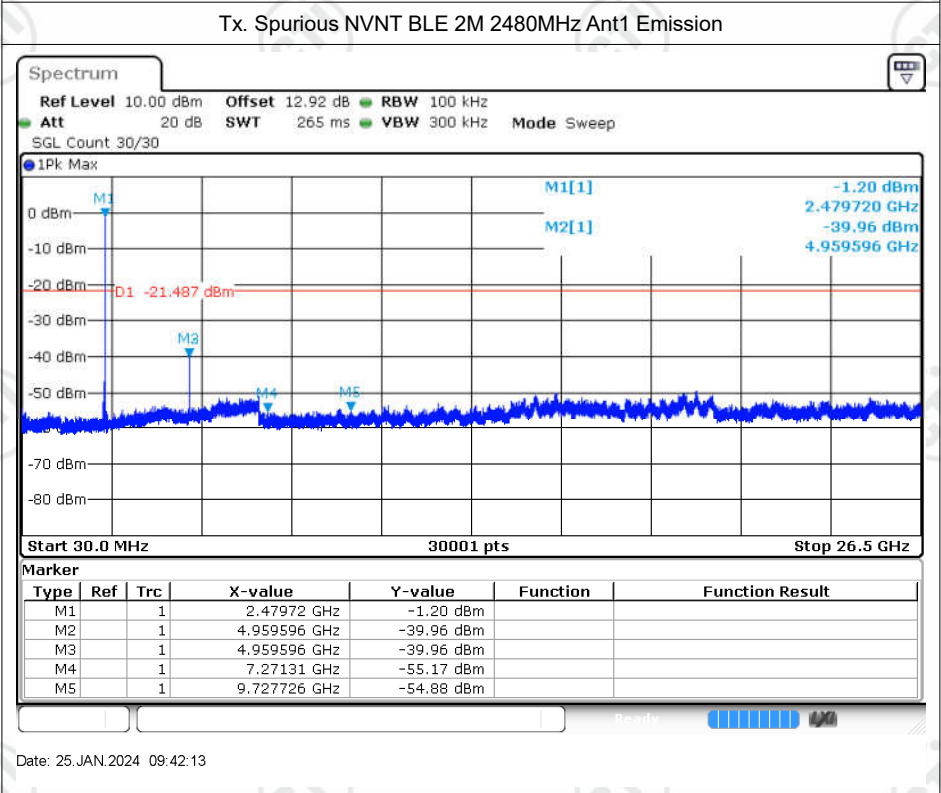
Date: 25.JAN.2024 09:43:29



Date: 25.JAN.2024 09:43:58



Date: 25.JAN.2024 09:41:44



*** End of Report ***