

Appendix: Bluetooth LE

Contents

Contents 2

Duty Cycle 3

Maximum Peak Conducted Output Power 7

-6dB Bandwidth 11

Occupied Channel Bandwidth 15

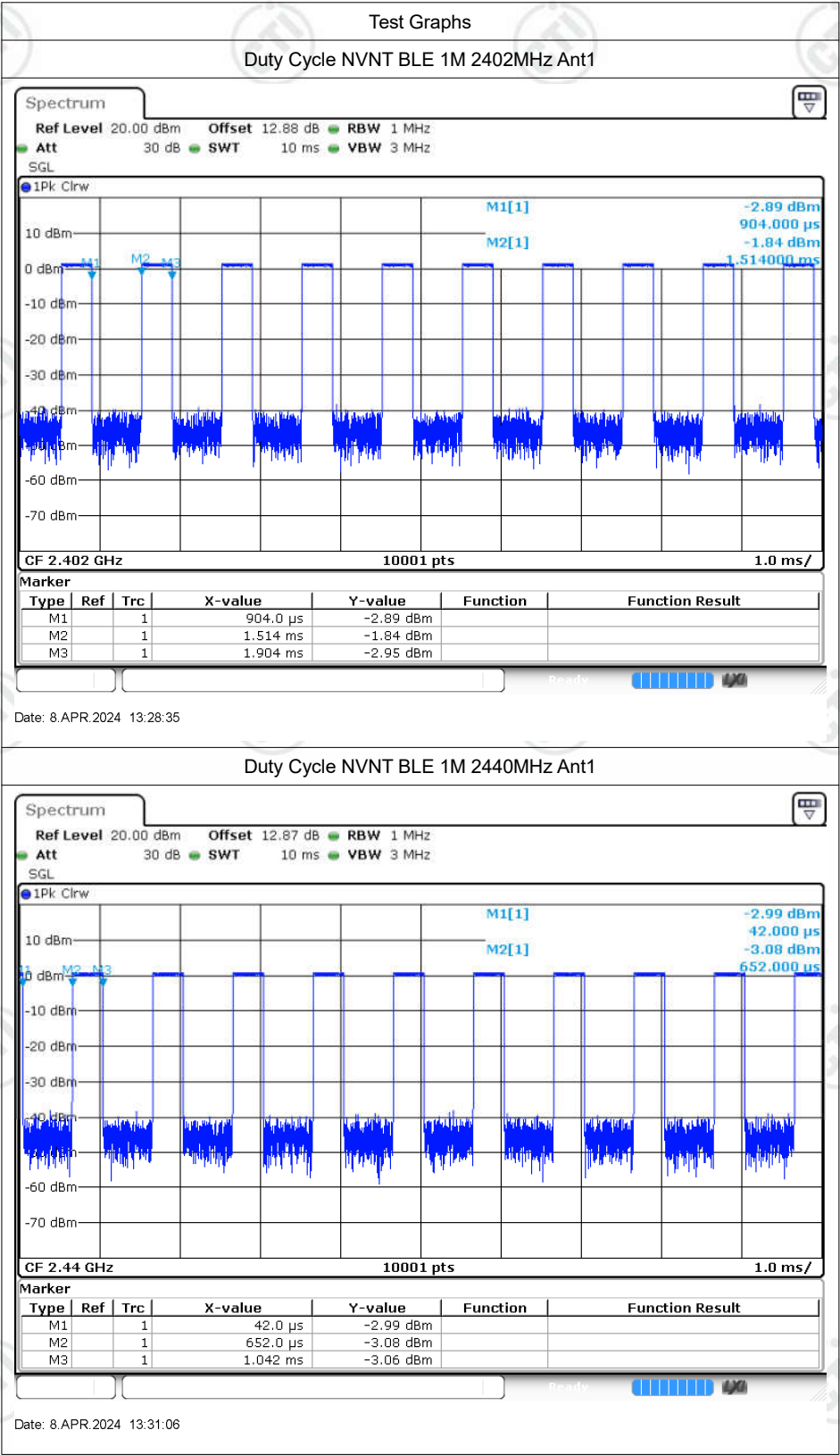
Maximum Power Spectral Density Level 19

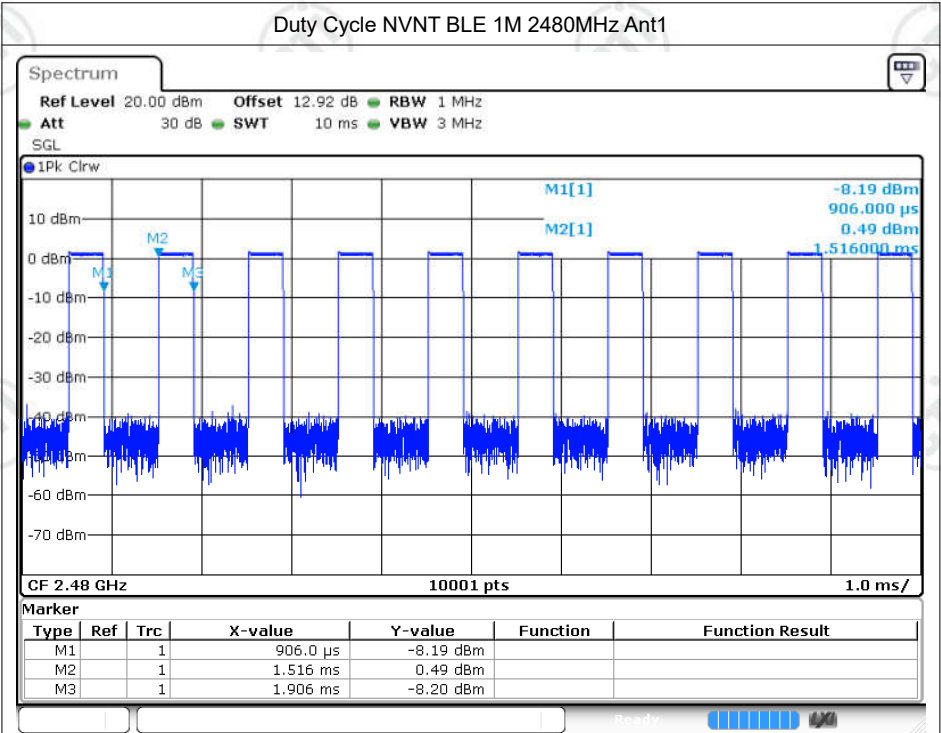
Band Edge 23

Conducted RF Spurious Emission 28

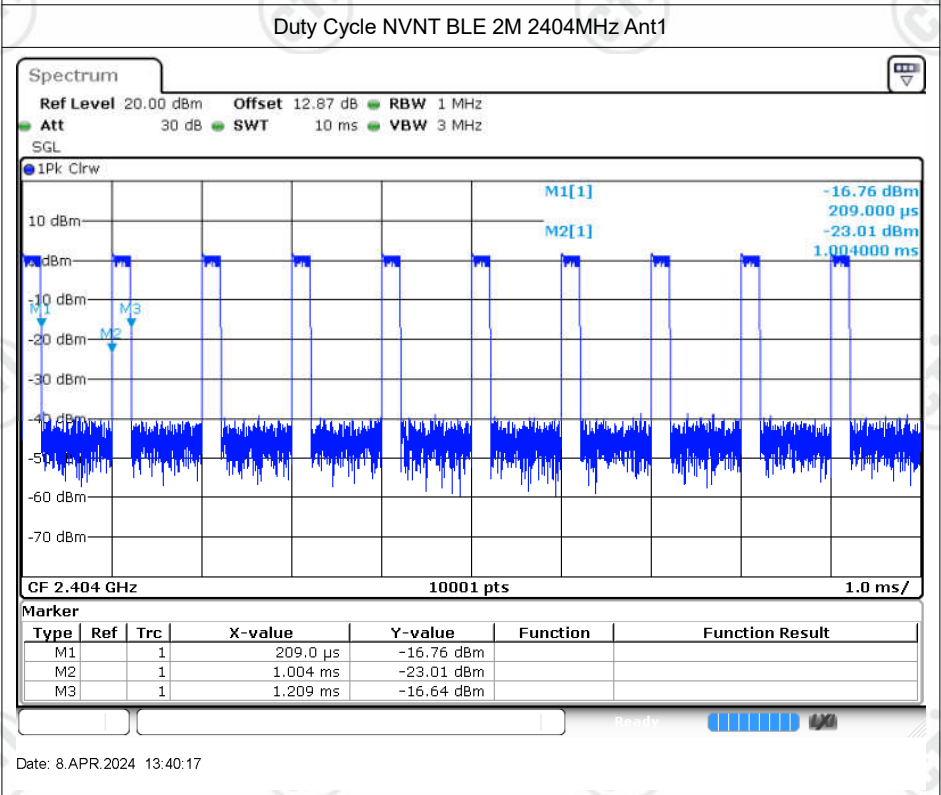
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	39	4.09	2.56
NVNT	BLE 1M	2440	Ant1	39	4.09	2.56
NVNT	BLE 1M	2480	Ant1	39	4.09	2.56
NVNT	BLE 2M	2404	Ant1	20.5	6.88	4.88
NVNT	BLE 2M	2440	Ant1	20.5	6.88	4.88
NVNT	BLE 2M	2478	Ant1	20.4	6.9	4.9

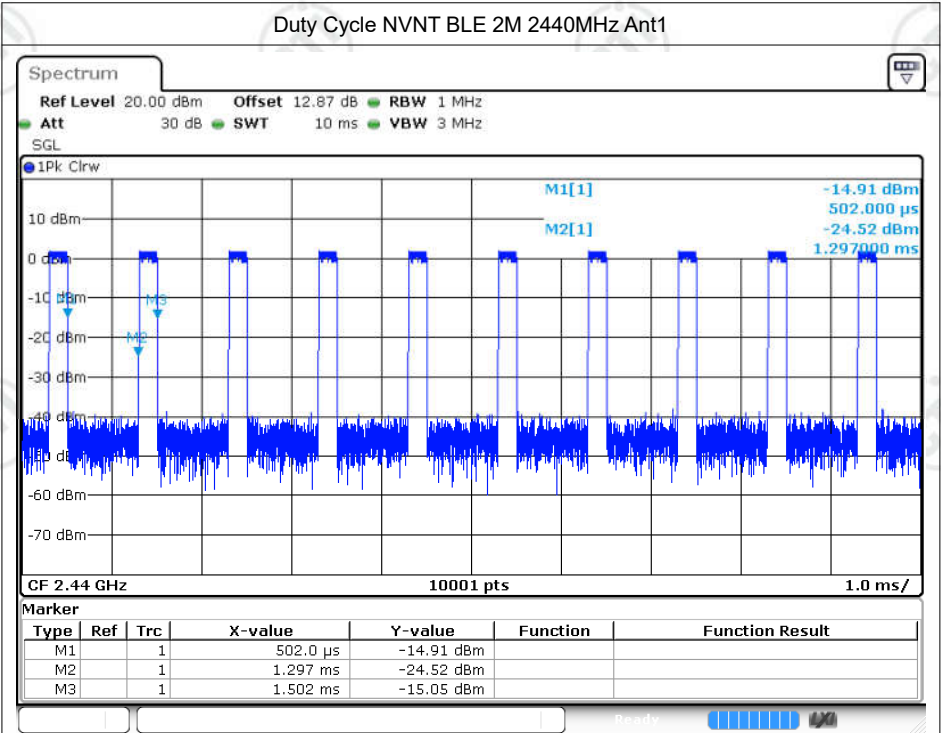




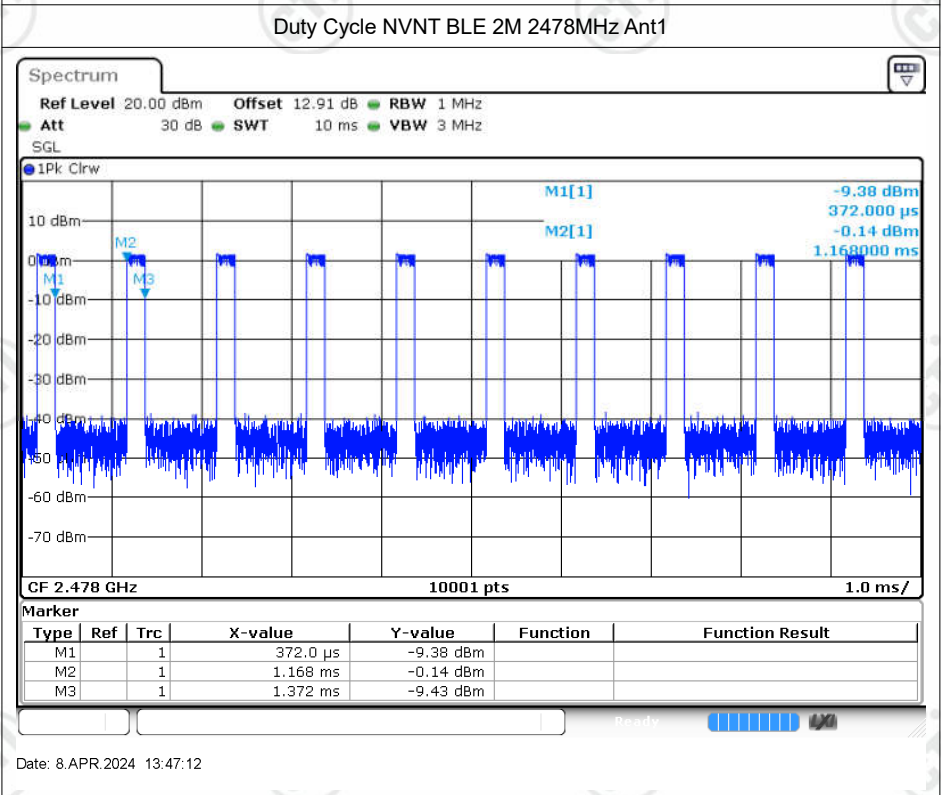
Date: 8.APR.2024 13:37:24



Date: 8.APR.2024 13:40:17



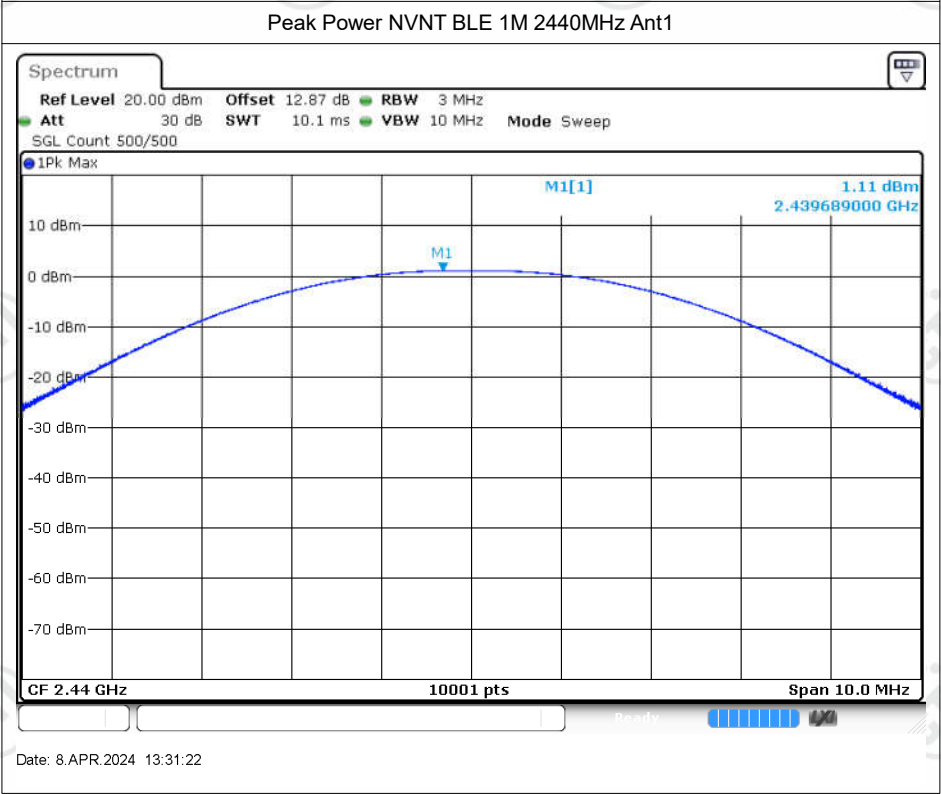
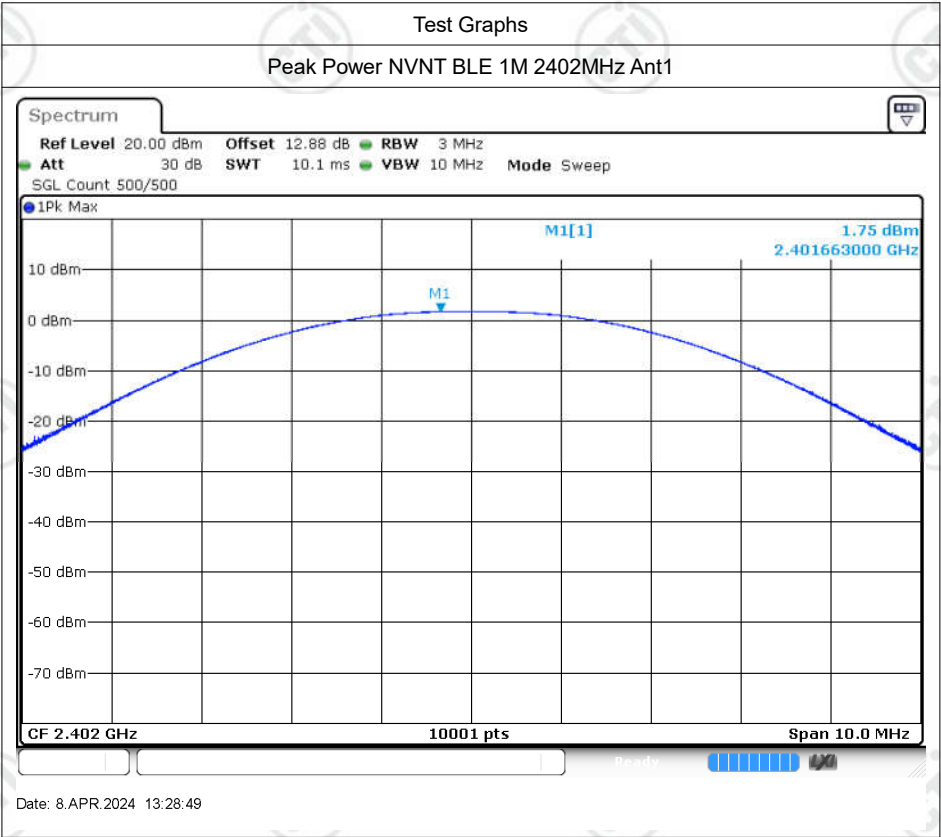
Date: 8.APR.2024 13:44:07

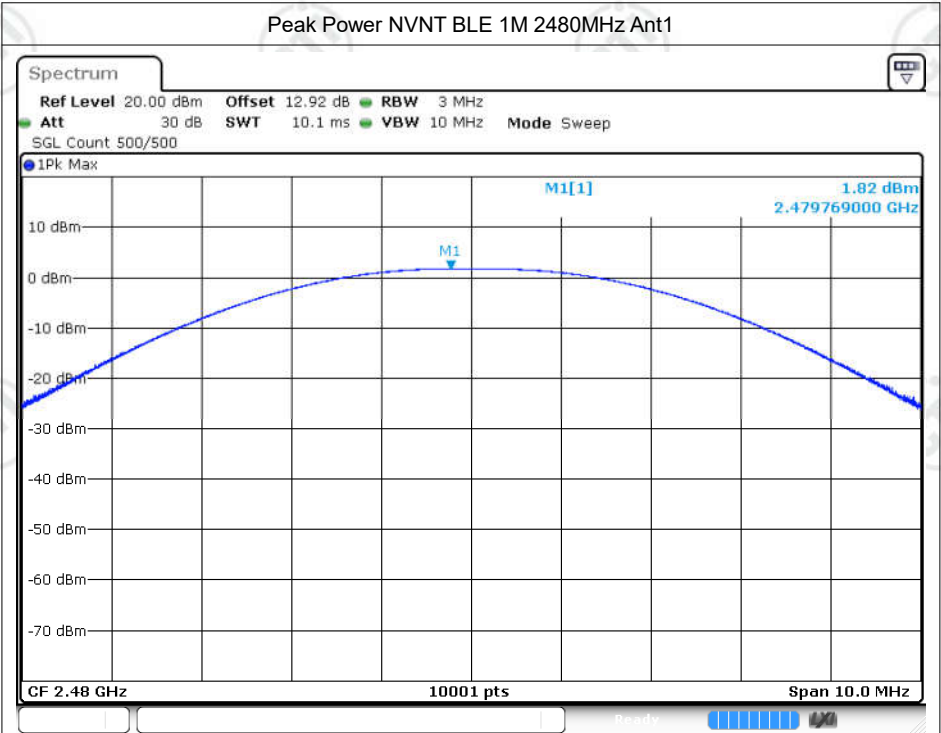


Date: 8.APR.2024 13:47:12

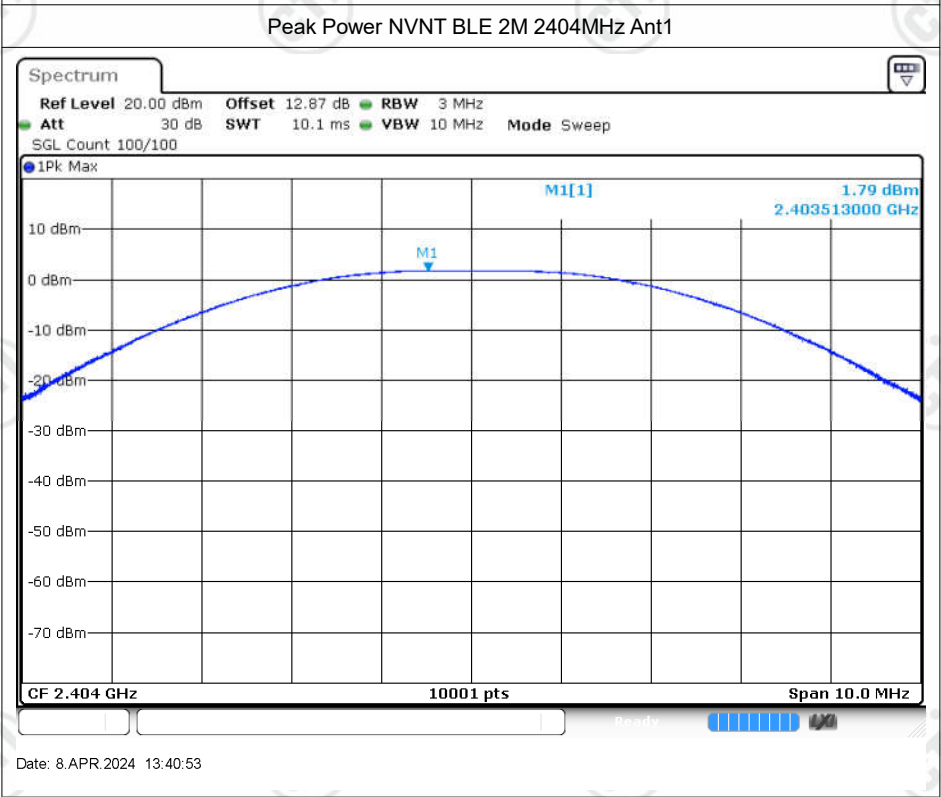
Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	1.75	30	Pass
NVNT	BLE 1M	2440	Ant1	1.11	30	Pass
NVNT	BLE 1M	2480	Ant1	1.82	30	Pass
NVNT	BLE 2M	2404	Ant1	1.79	30	Pass
NVNT	BLE 2M	2440	Ant1	2.29	30	Pass
NVNT	BLE 2M	2478	Ant1	1.97	30	Pass

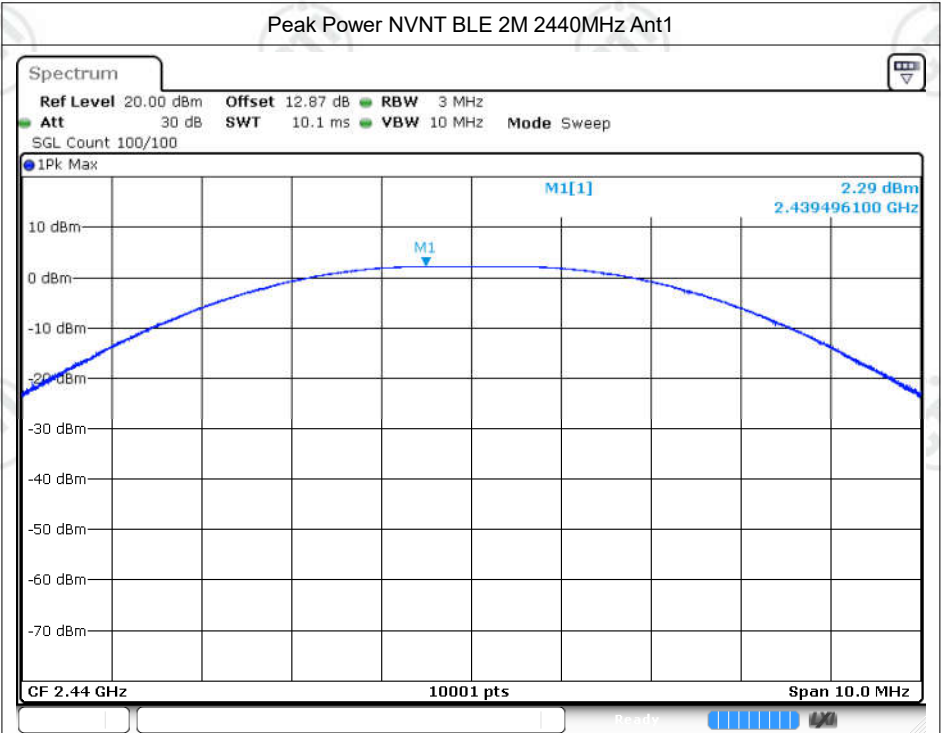




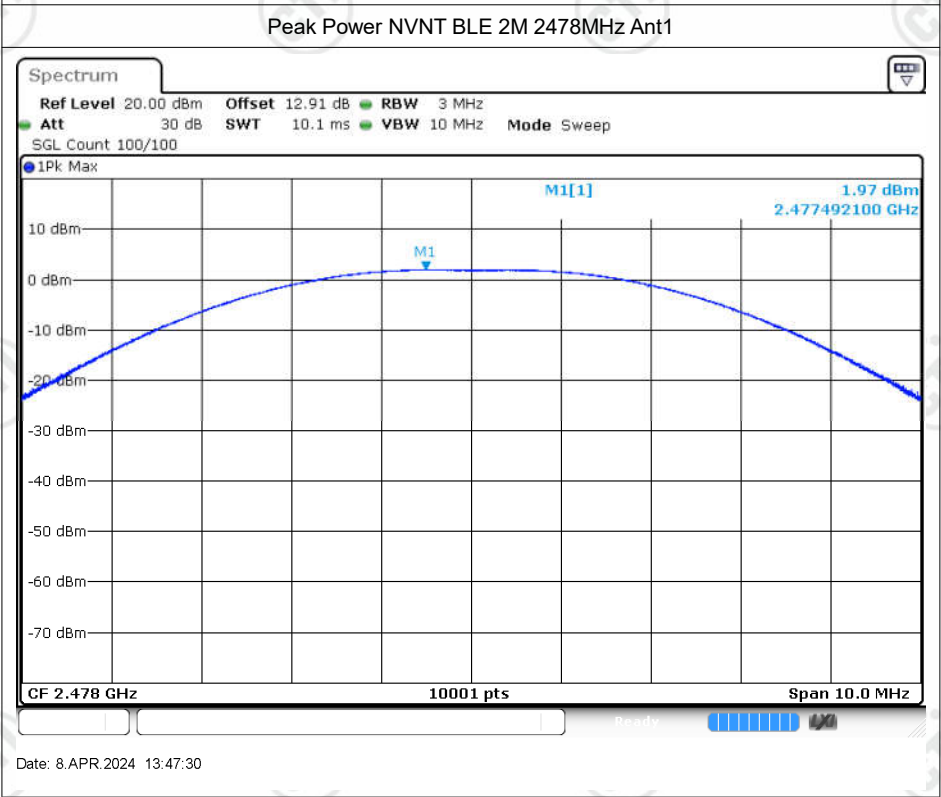
Date: 8.APR.2024 13:37:41



Date: 8.APR.2024 13:40:53



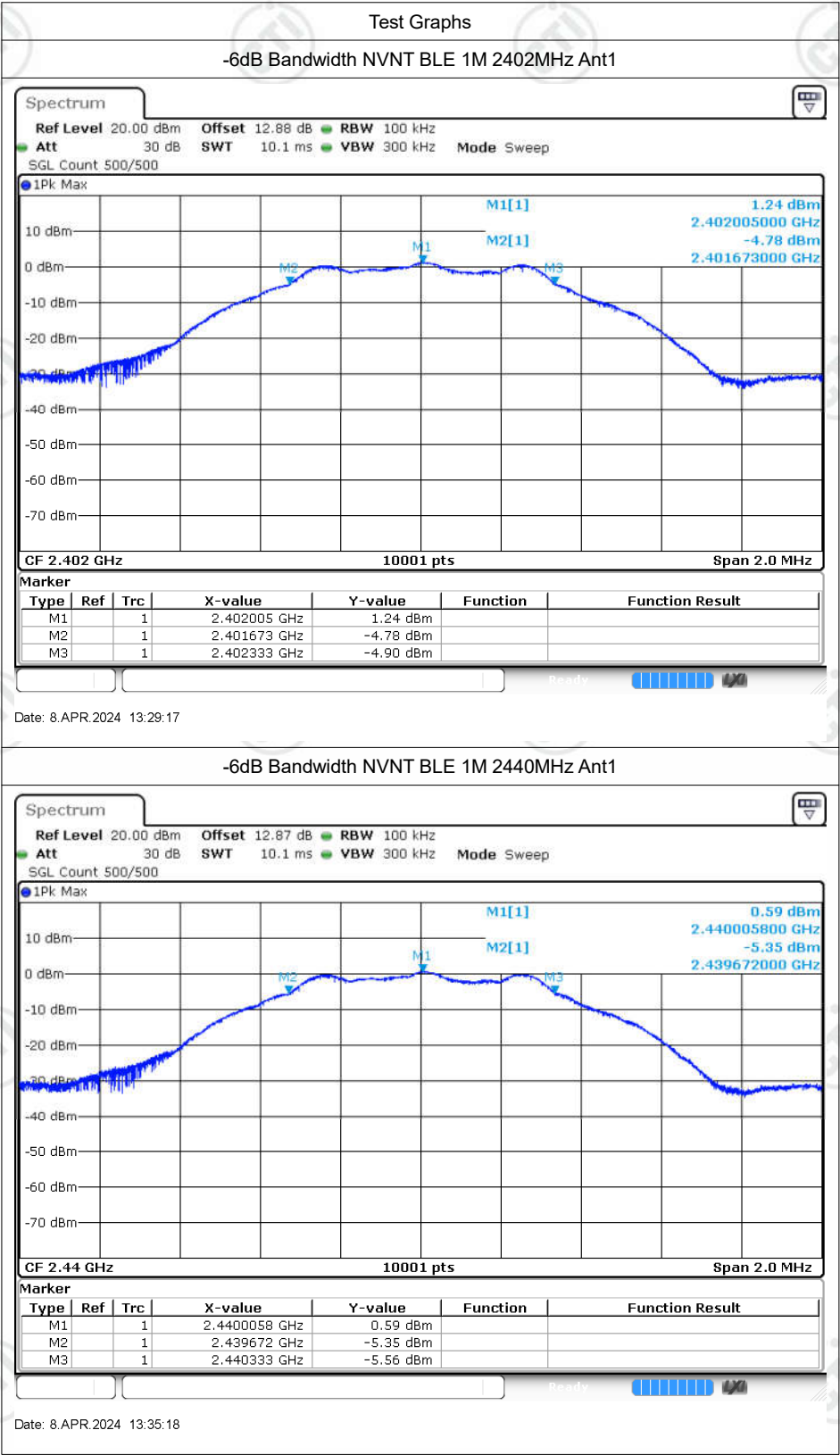
Date: 8.APR.2024 13:44:39

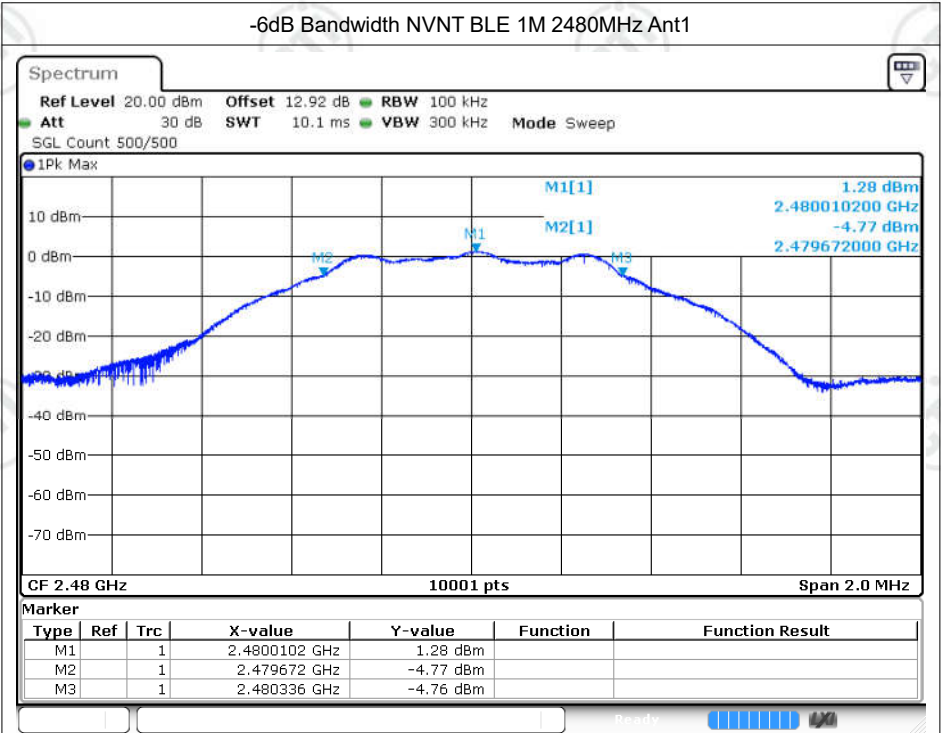


Date: 8.APR.2024 13:47:30

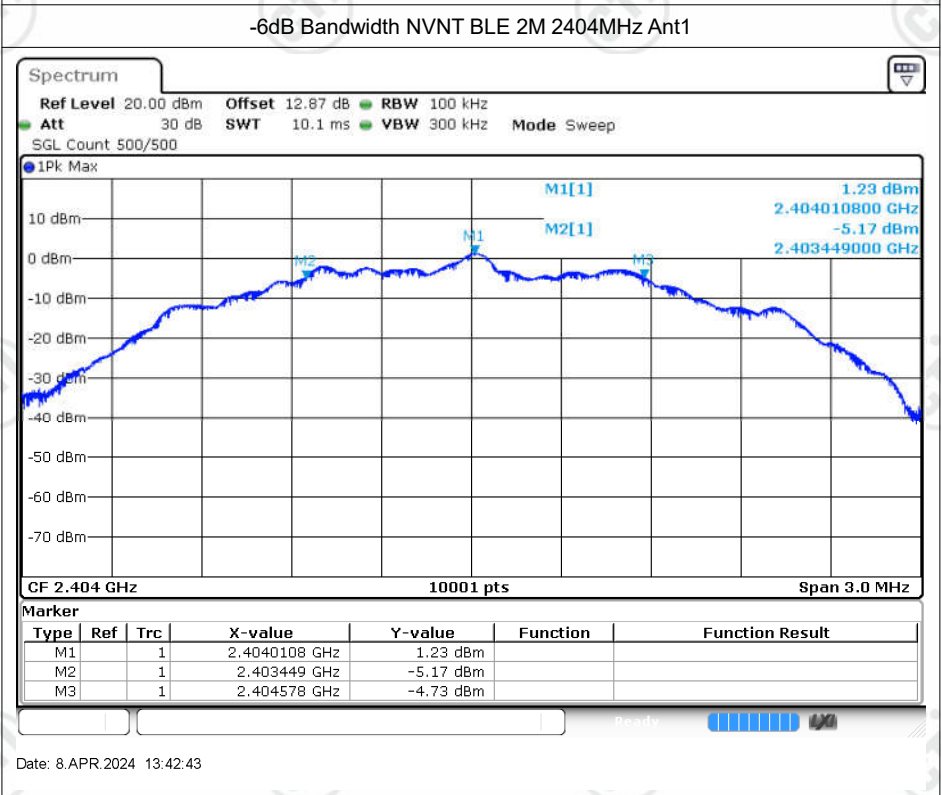
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.659	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.661	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.665	0.5	Pass
NVNT	BLE 2M	2404	Ant1	1.129	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.134	0.5	Pass
NVNT	BLE 2M	2478	Ant1	1.13	0.5	Pass

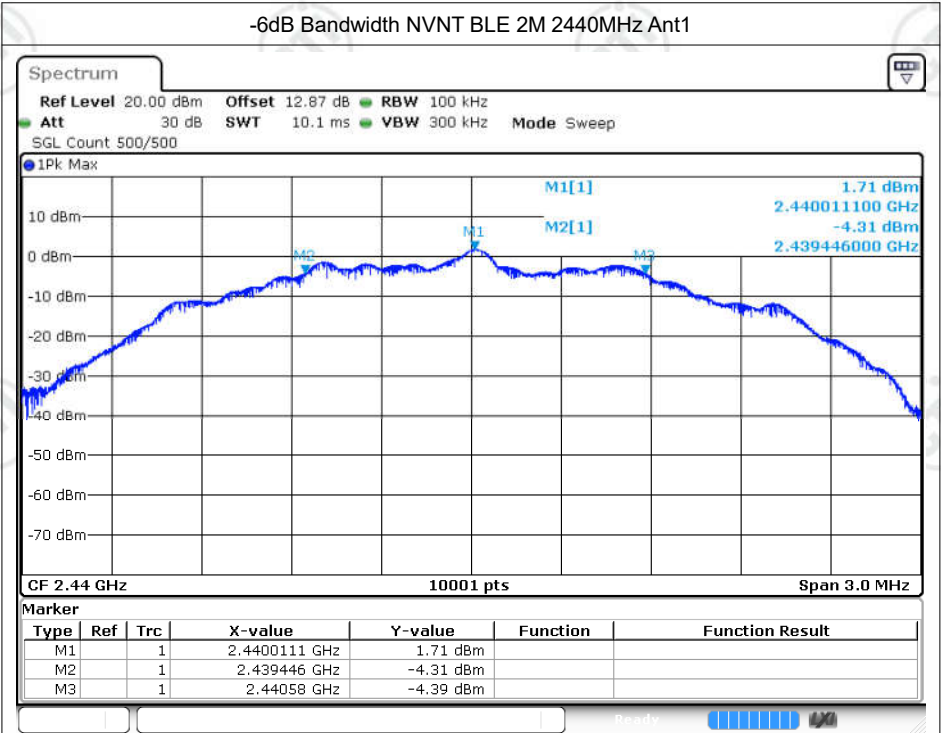




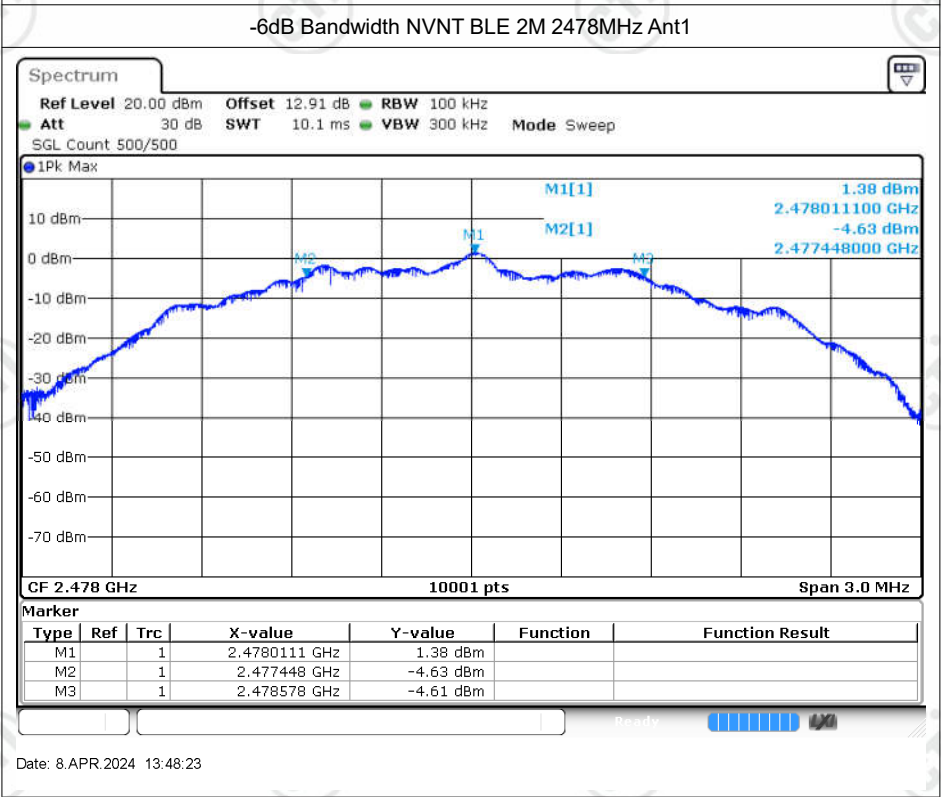
Date: 8.APR.2024 13:38:53



Date: 8.APR.2024 13:42:43



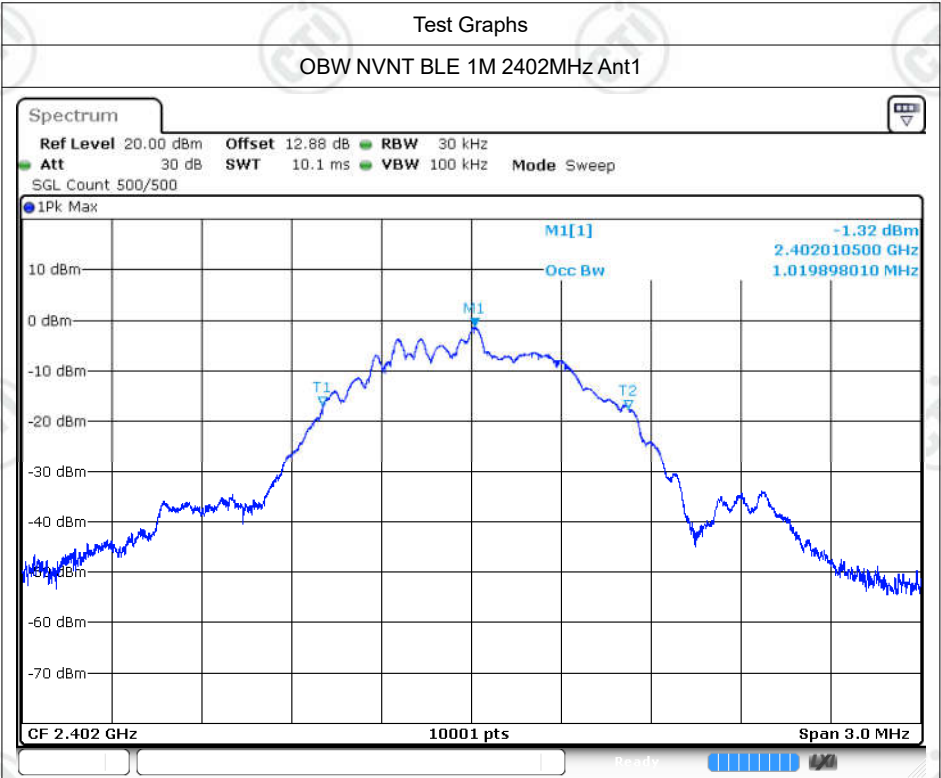
Date: 8.APR.2024 13:45:46



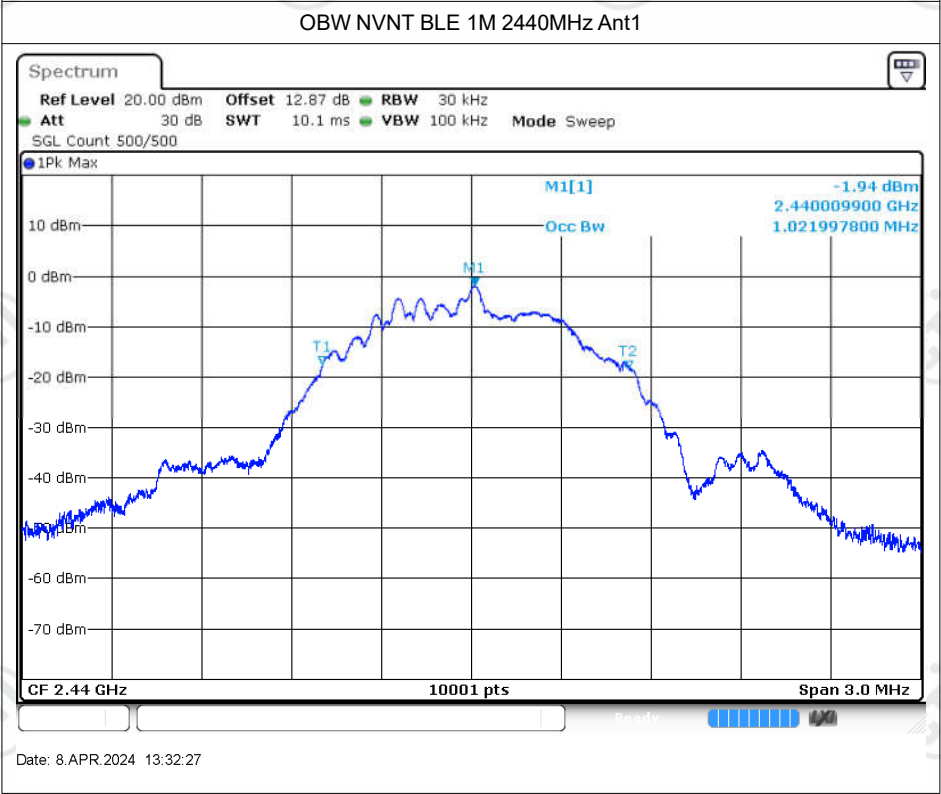
Date: 8.APR.2024 13:48:23

Occupied Channel Bandwidth

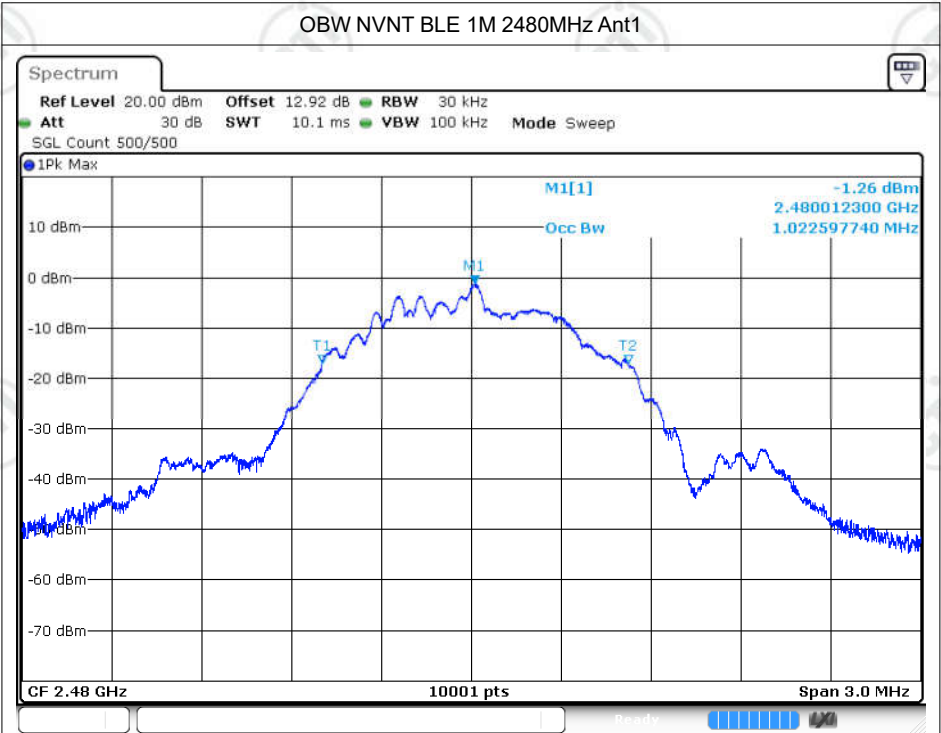
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.02
NVNT	BLE 1M	2440	Ant1	1.022
NVNT	BLE 1M	2480	Ant1	1.023
NVNT	BLE 2M	2404	Ant1	2.048
NVNT	BLE 2M	2440	Ant1	2.051
NVNT	BLE 2M	2478	Ant1	2.049



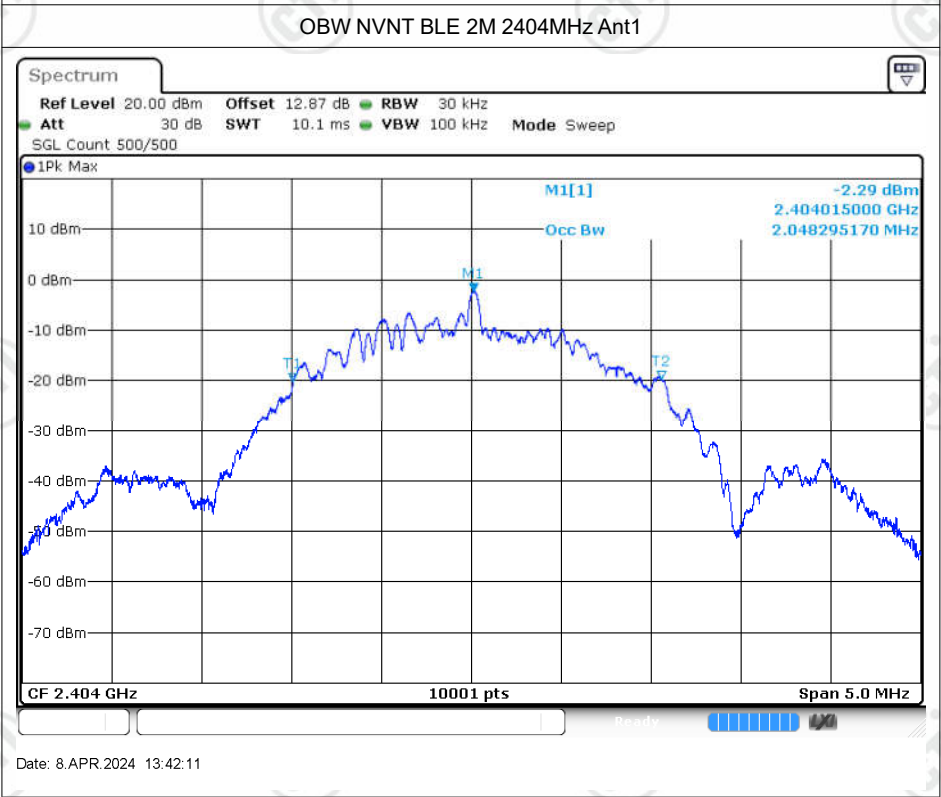
Date: 8.APR.2024 13:29:03



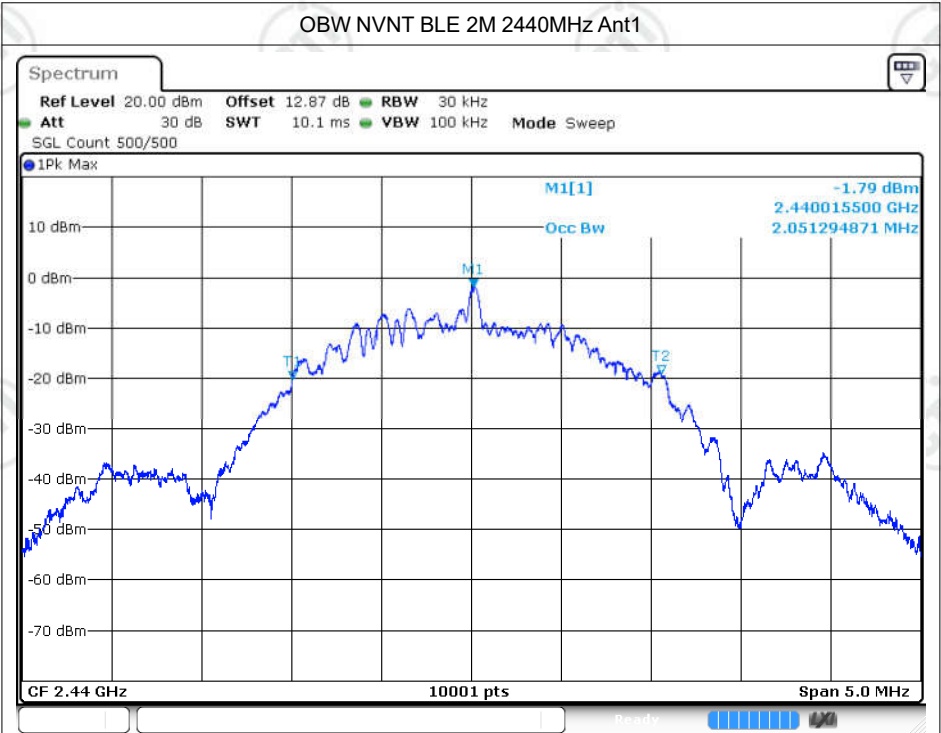
Date: 8.APR.2024 13:32:27



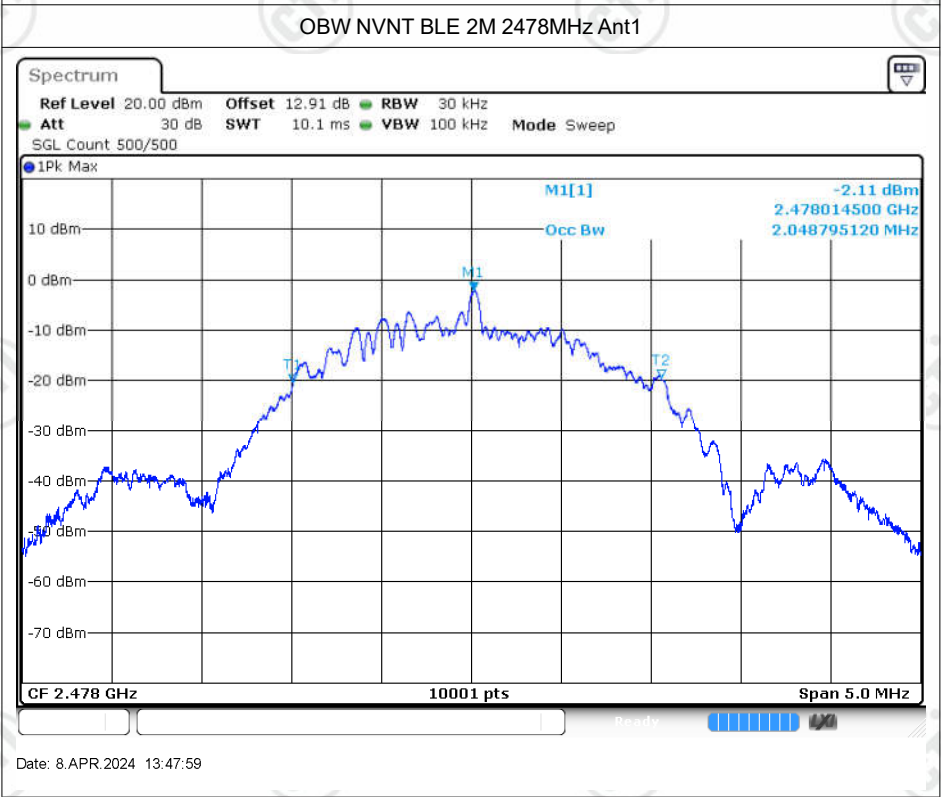
Date: 8.APR.2024 13:37:55



Date: 8.APR.2024 13:42:11



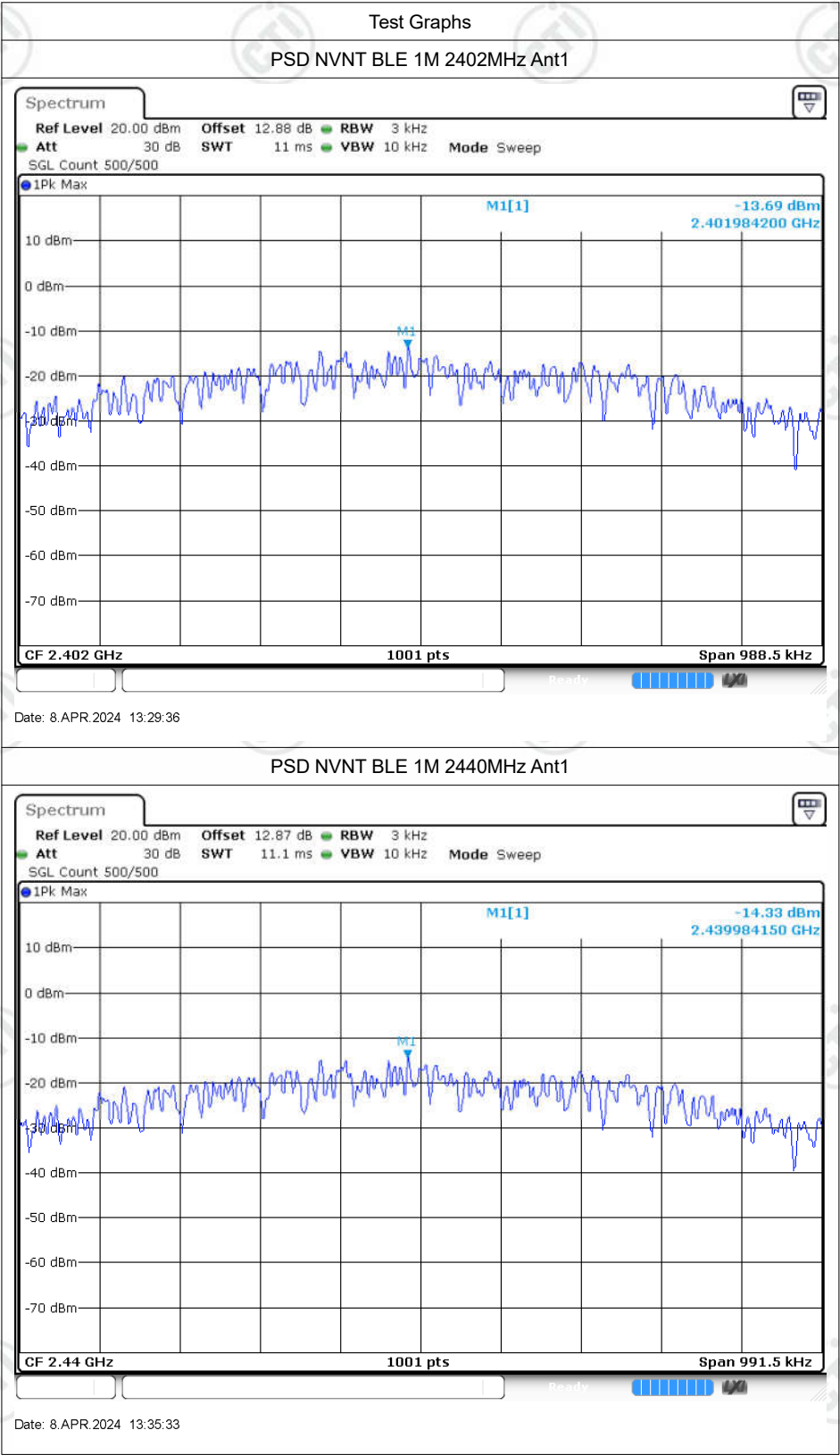
Date: 8.APR.2024 13:45:10

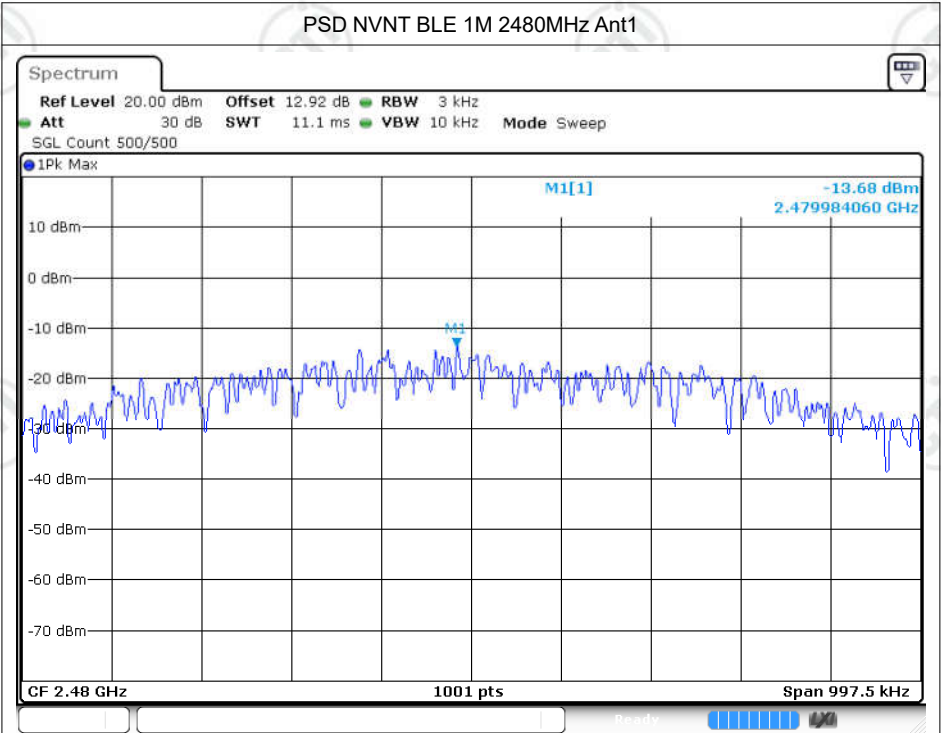


Date: 8.APR.2024 13:47:59

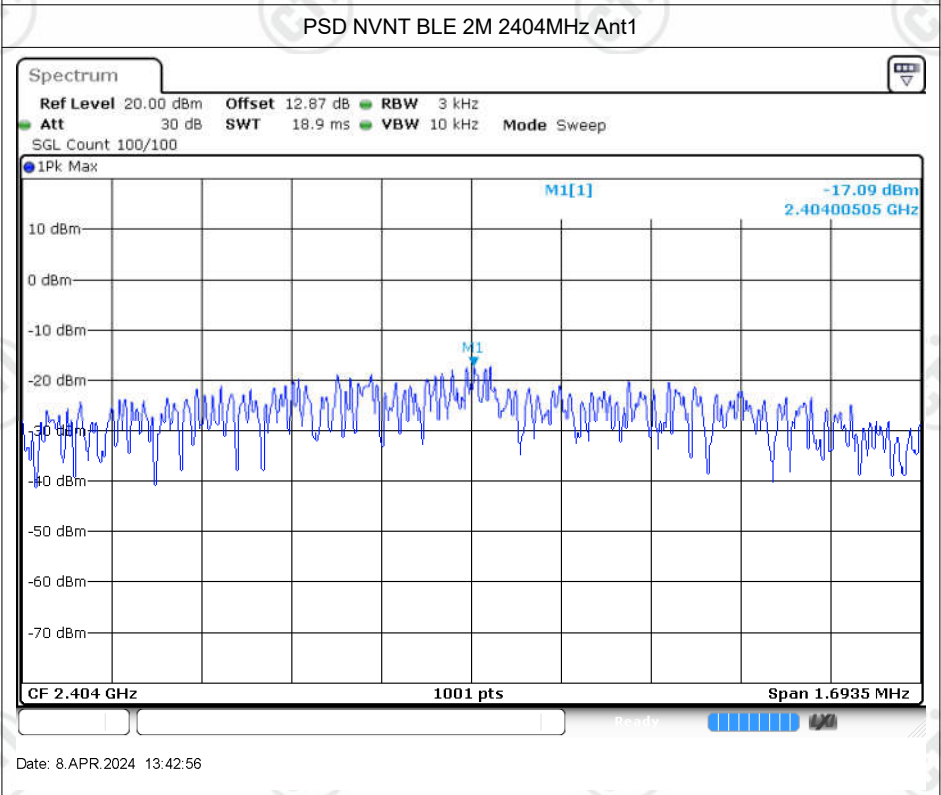
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Verdict
NVNT	BLE 1M	2402	Ant1	-13.69	0	Pass
NVNT	BLE 1M	2440	Ant1	-14.33	0	Pass
NVNT	BLE 1M	2480	Ant1	-13.68	0	Pass
NVNT	BLE 2M	2404	Ant1	-17.09	0	Pass
NVNT	BLE 2M	2440	Ant1	-16.2	0	Pass
NVNT	BLE 2M	2478	Ant1	-16.94	0	Pass

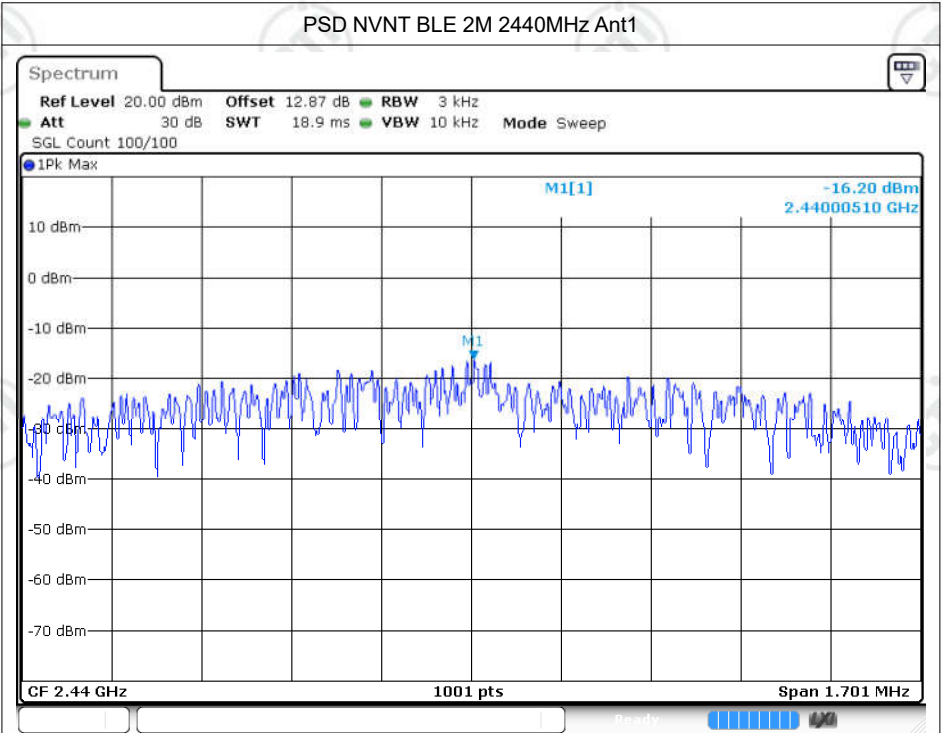




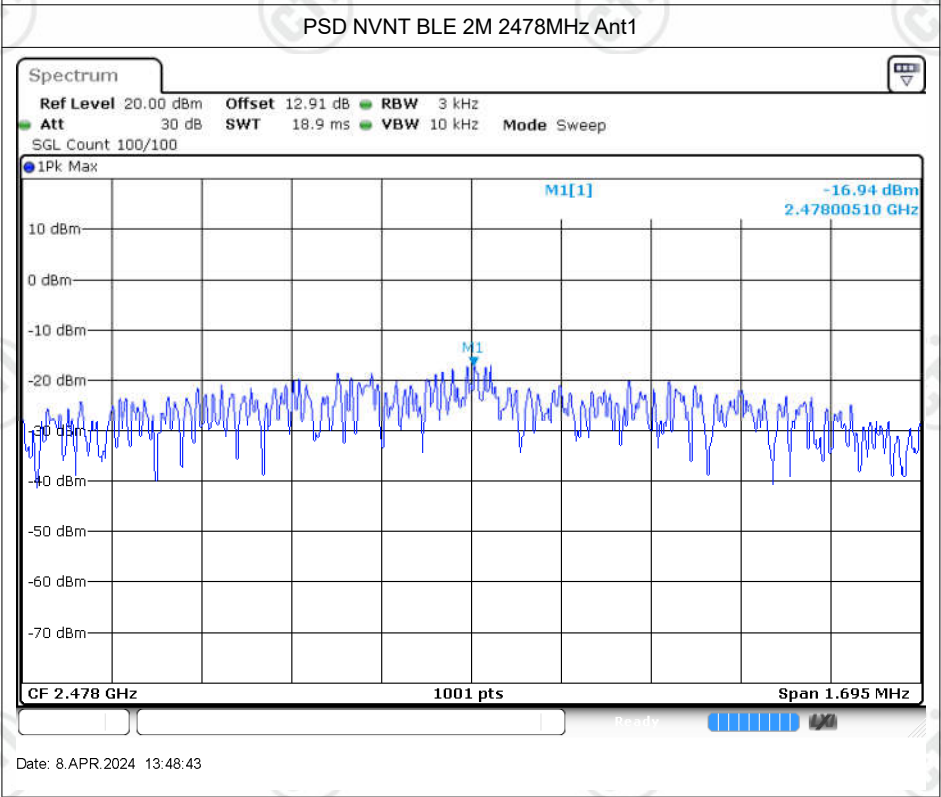
Date: 8.APR.2024 13:39:12



Date: 8.APR.2024 13:42:56



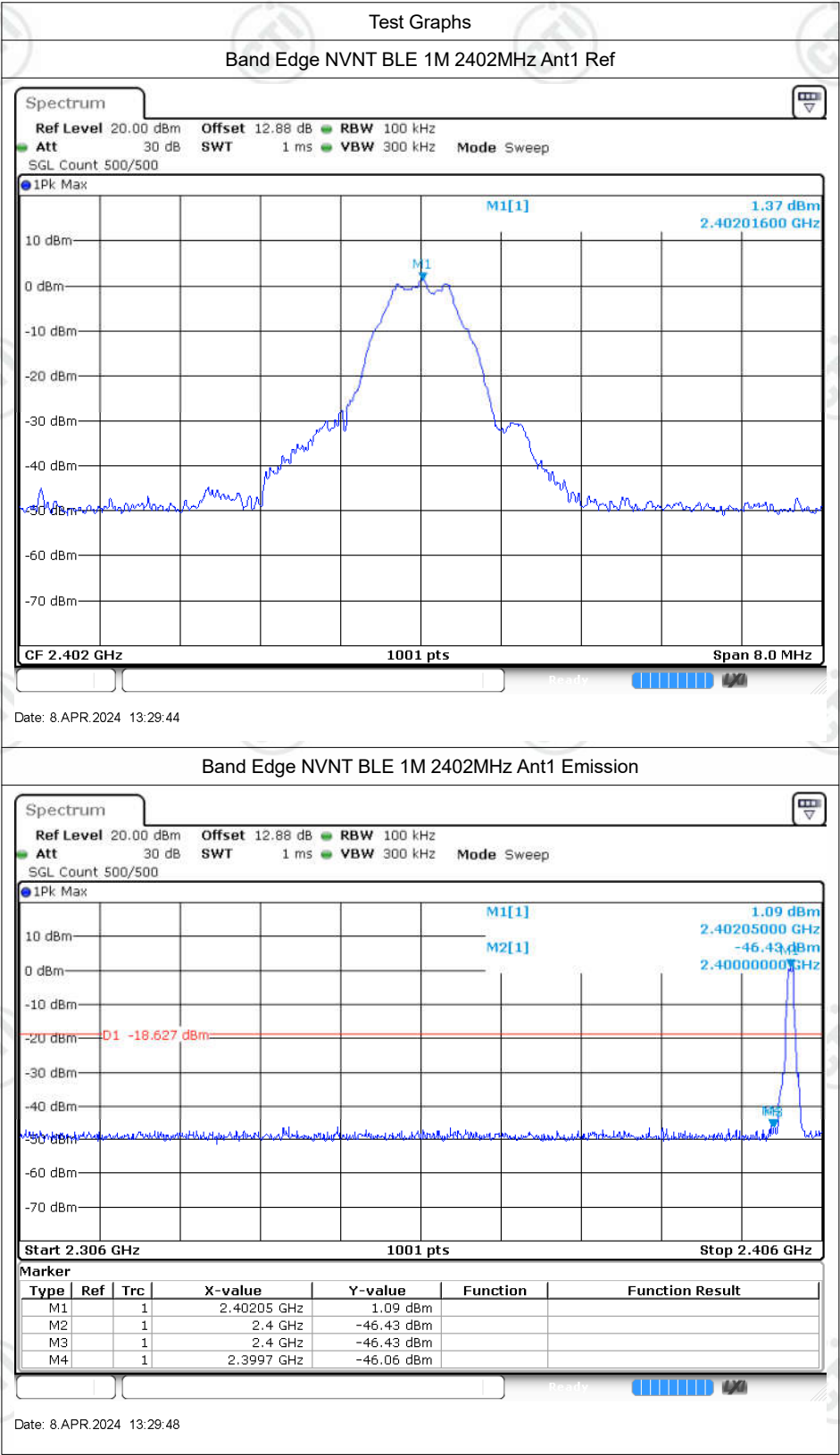
Date: 8.APR.2024 13:46:04

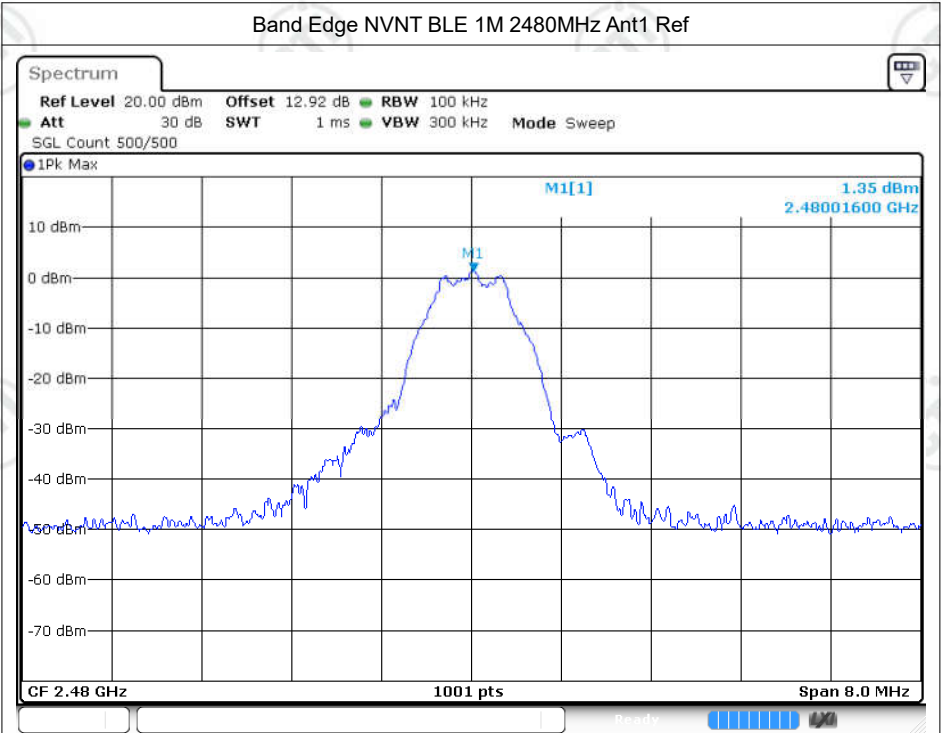


Date: 8.APR.2024 13:48:43

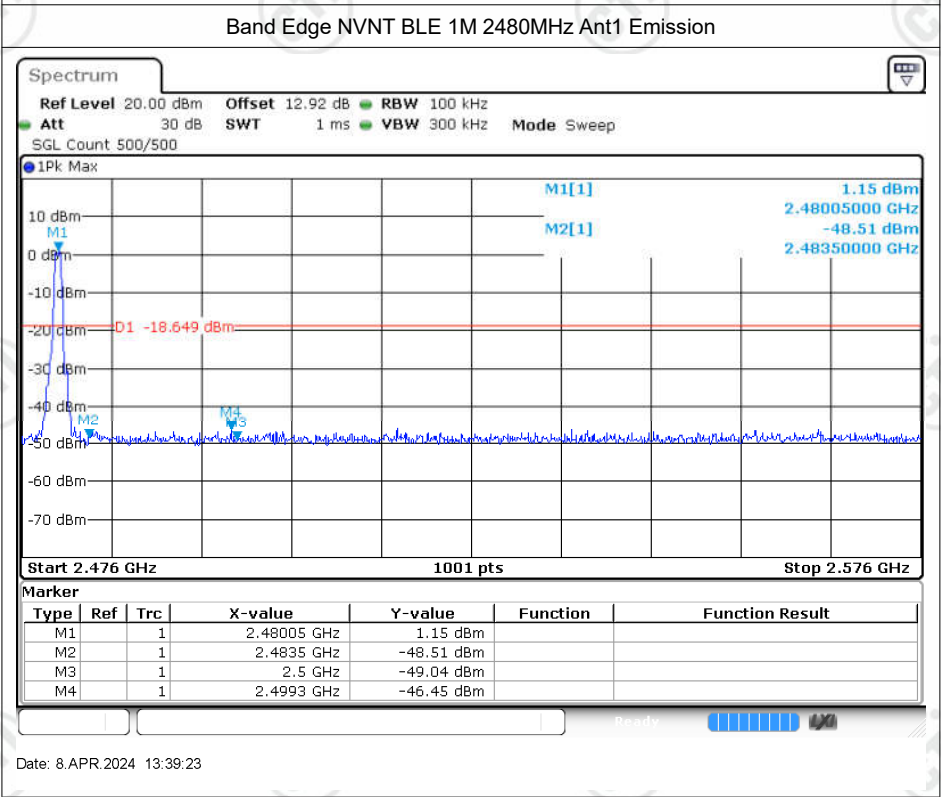
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-47.43	-20	Pass
NVNT	BLE 1M	2480	Ant1	-47.79	-20	Pass
NVNT	BLE 2M	2404	Ant1	-48.59	-20	Pass
NVNT	BLE 2M	2478	Ant1	-49.37	-20	Pass

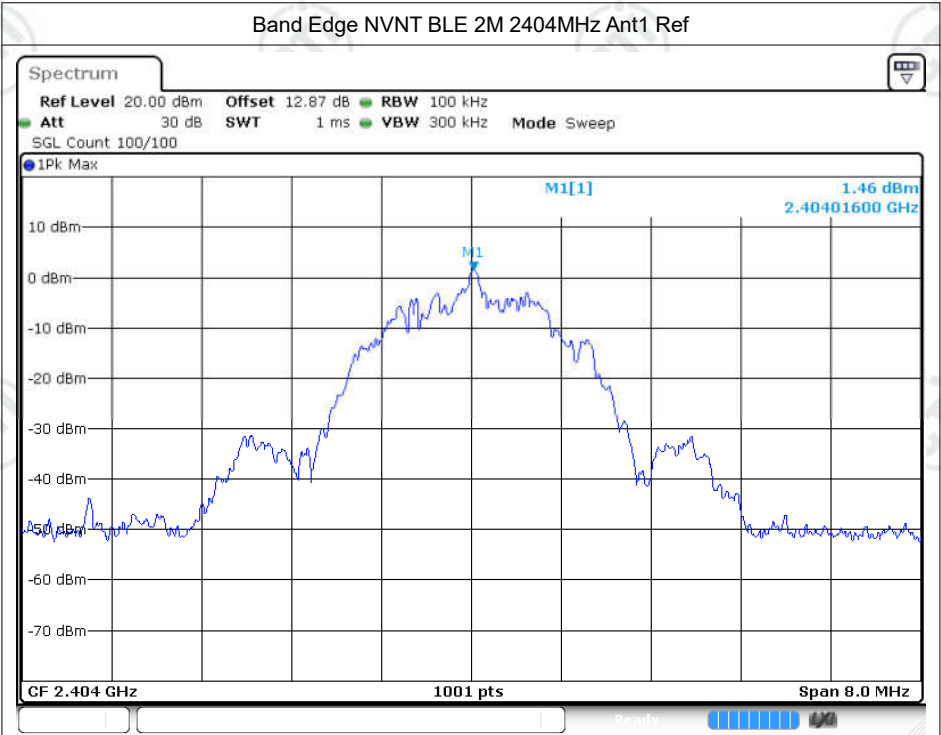




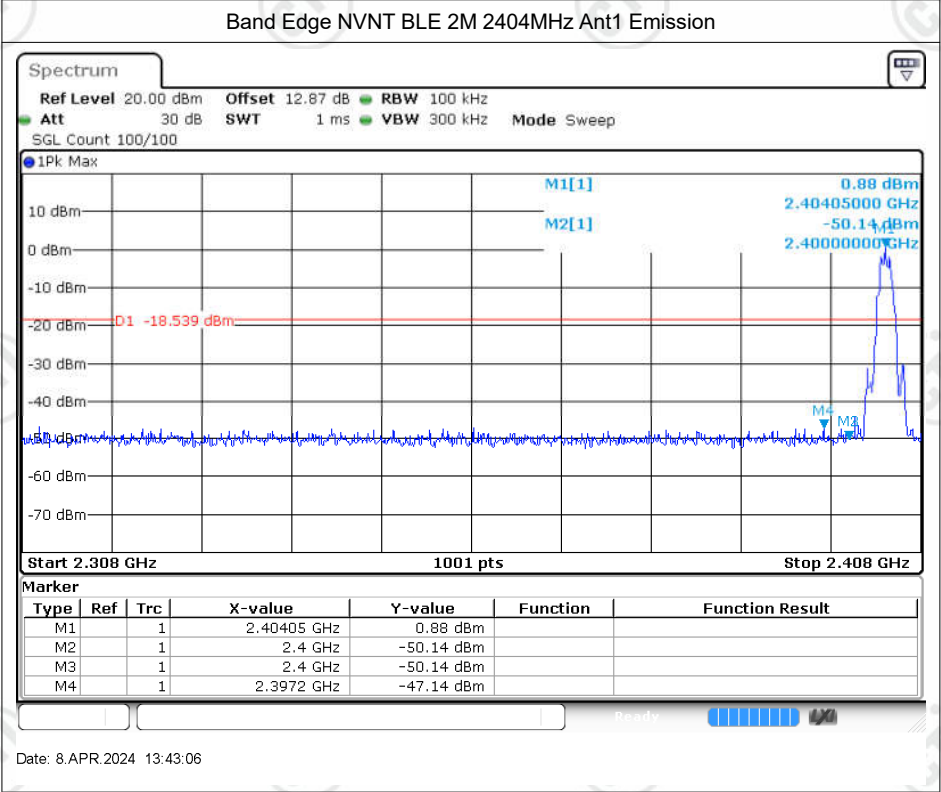
Date: 8.APR.2024 13:39:21



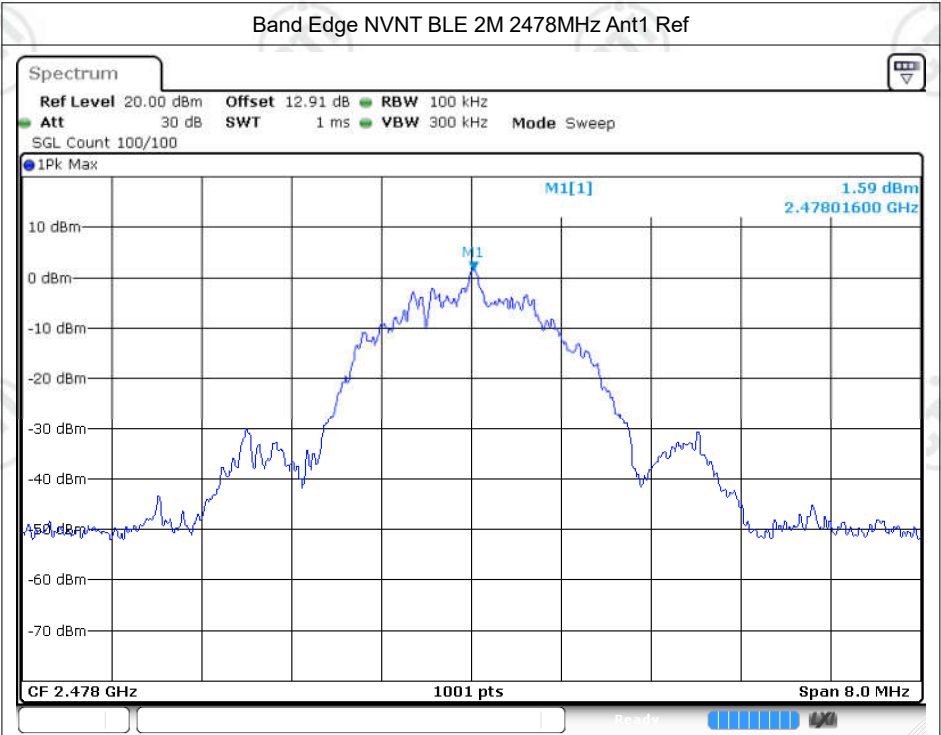
Date: 8.APR.2024 13:39:23



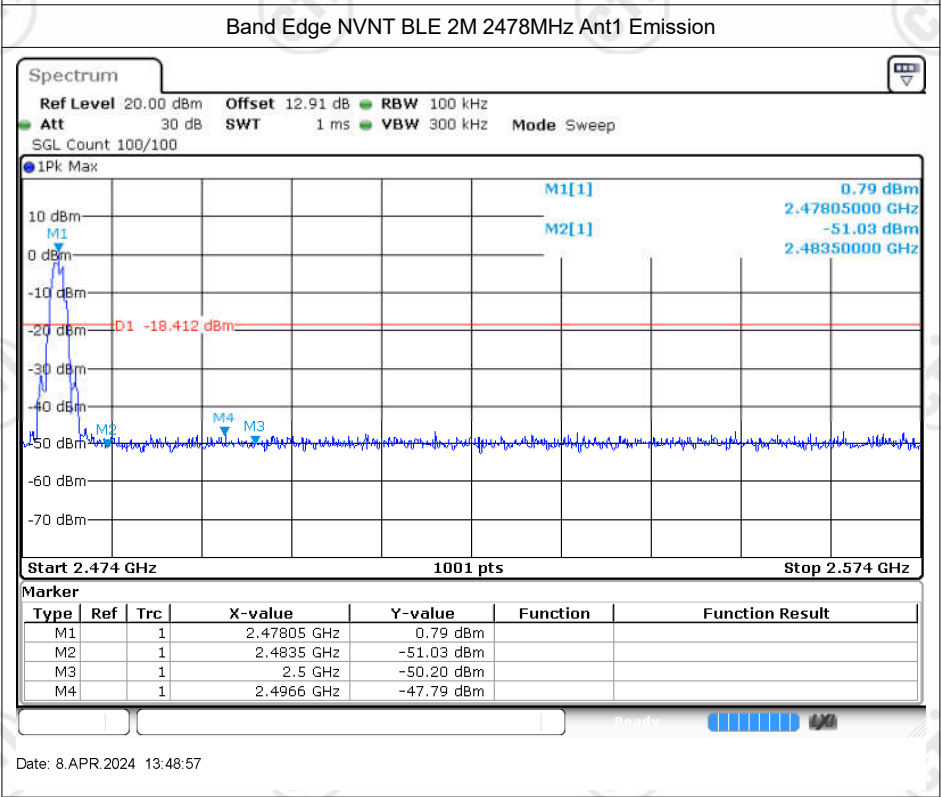
Date: 8.APR.2024 13:43:04



Date: 8.APR.2024 13:43:06



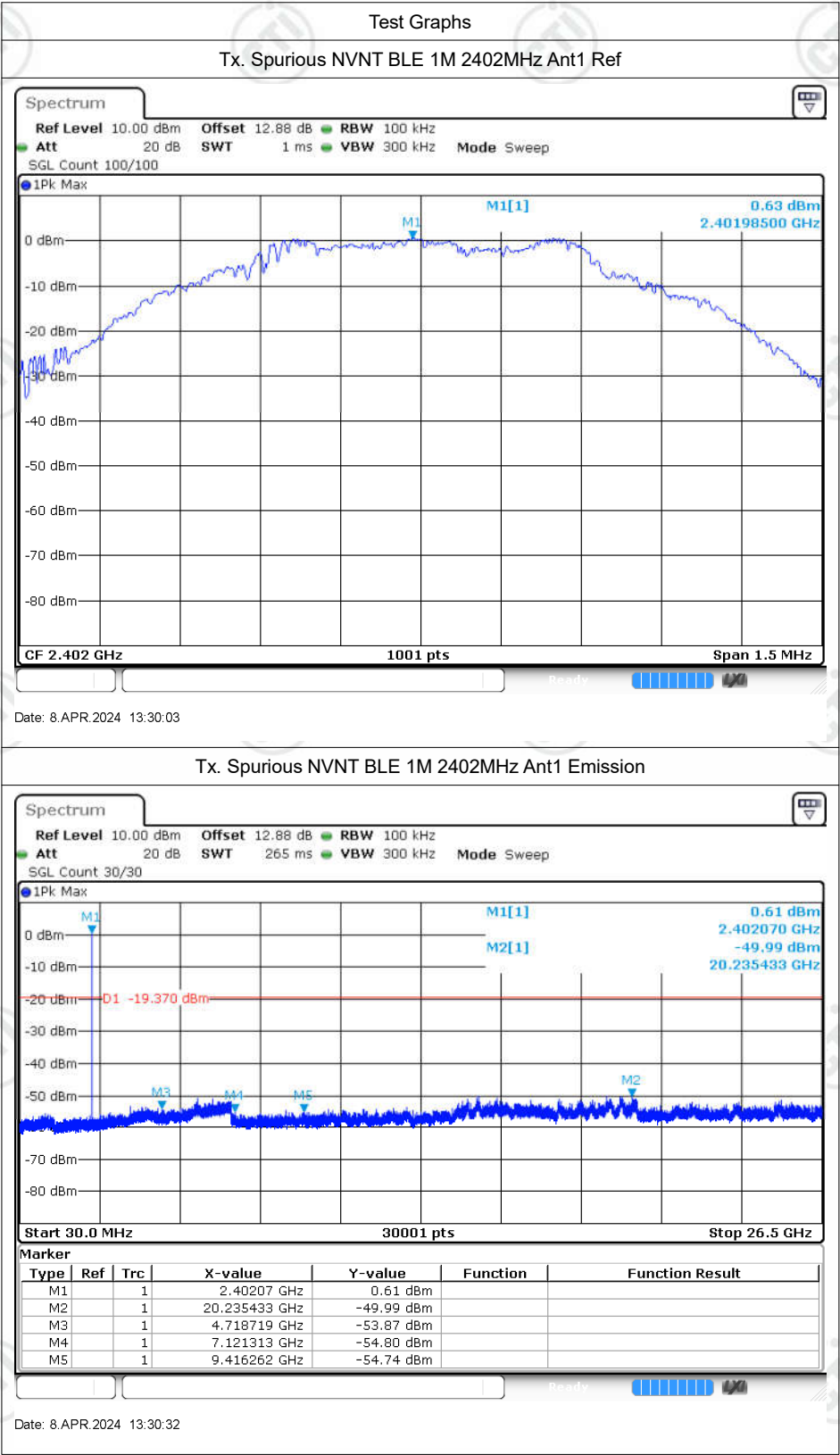
Date: 8.APR.2024 13:48:55

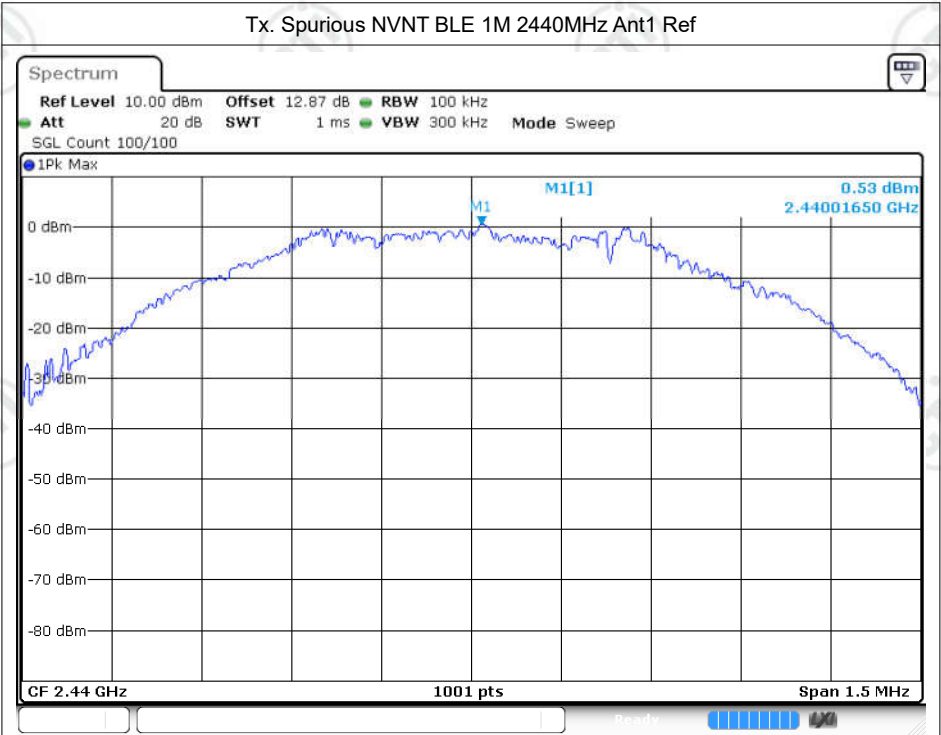


Date: 8.APR.2024 13:48:57

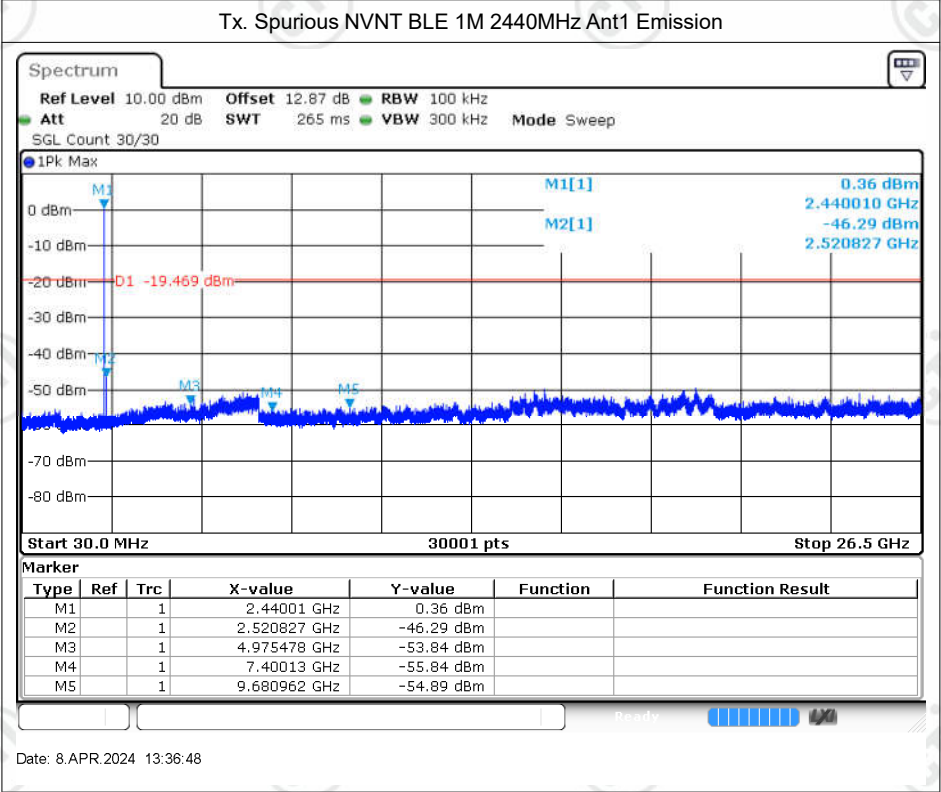
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-50.61	-20	Pass
NVNT	BLE 1M	2440	Ant1	-46.82	-20	Pass
NVNT	BLE 1M	2480	Ant1	-50.41	-20	Pass
NVNT	BLE 2M	2404	Ant1	-50.58	-20	Pass
NVNT	BLE 2M	2440	Ant1	-51.25	-20	Pass
NVNT	BLE 2M	2478	Ant1	-51.12	-20	Pass

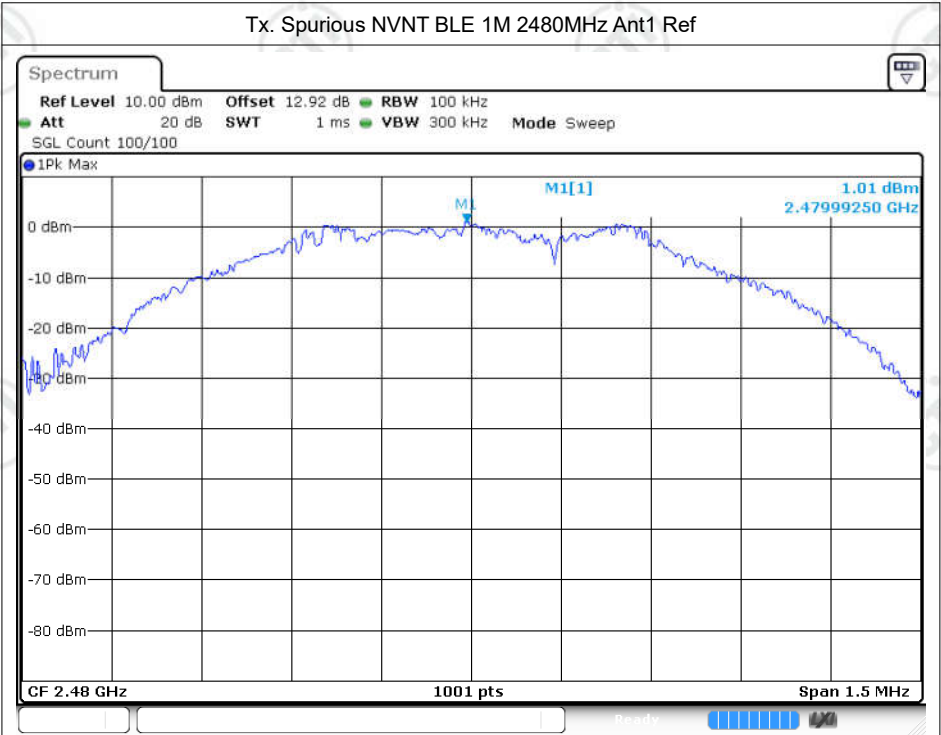




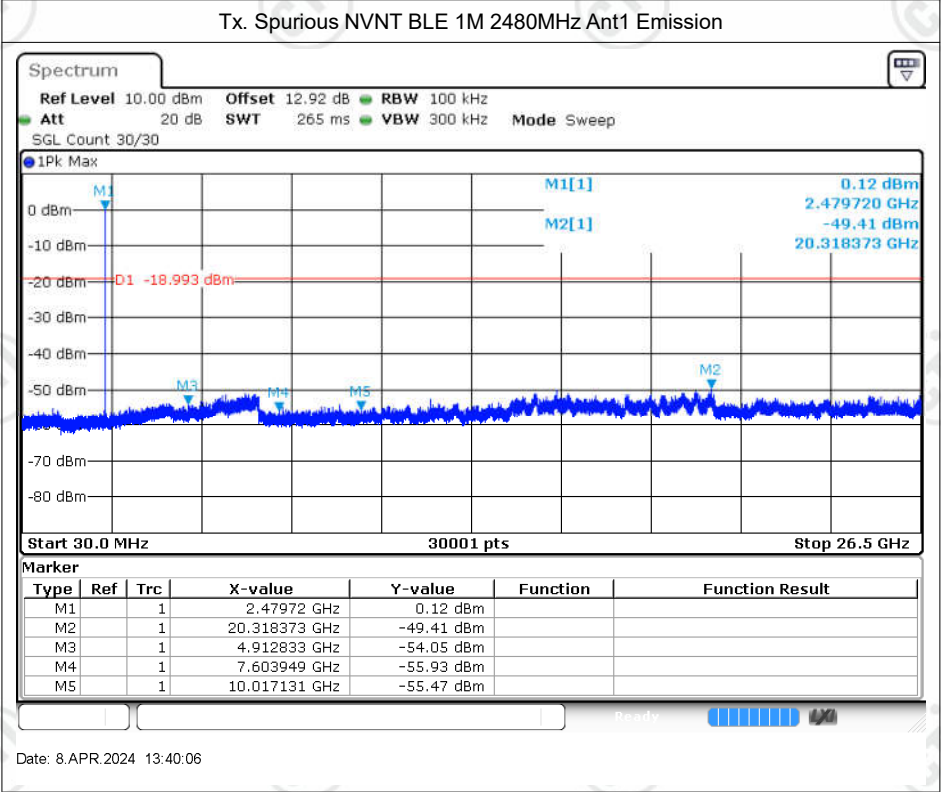
Date: 8.APR.2024 13:36:18

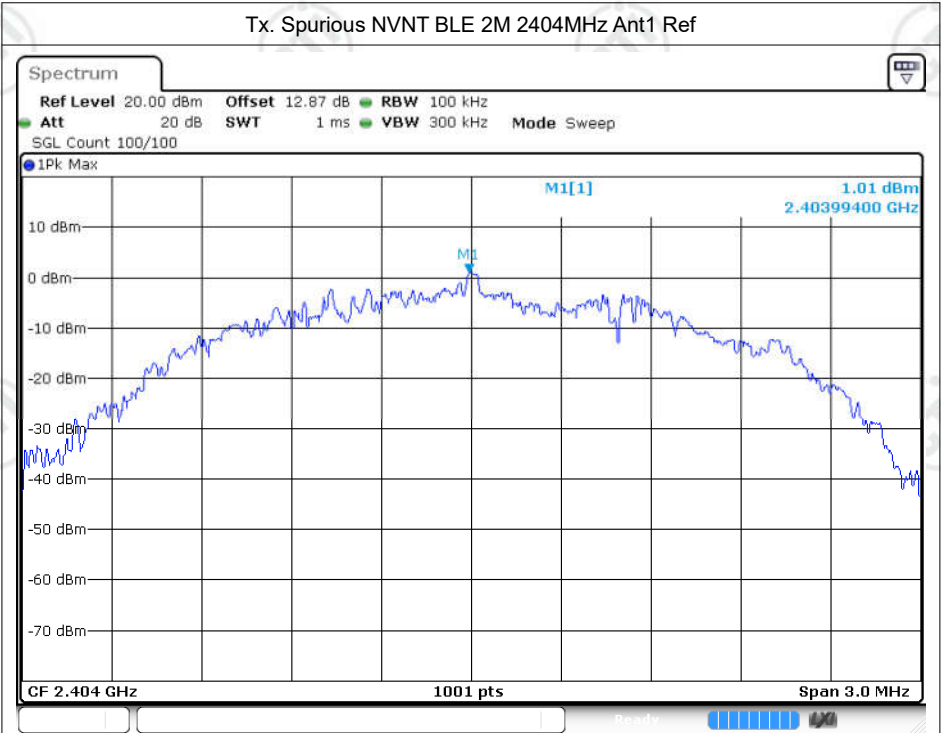


Date: 8.APR.2024 13:36:48

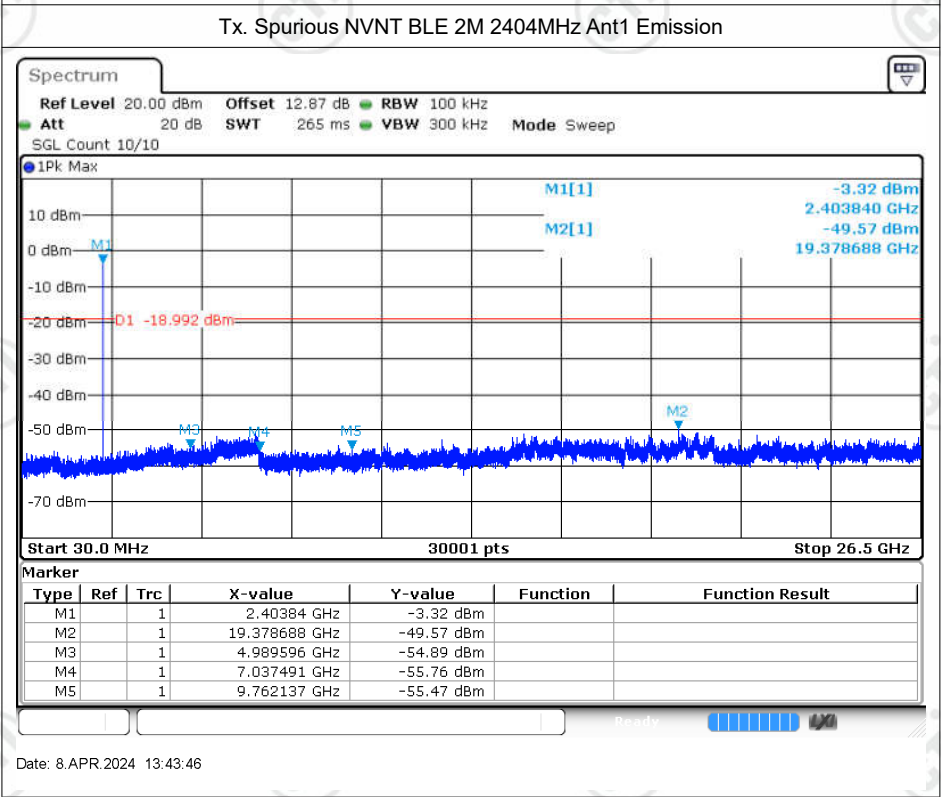


Date: 8.APR.2024 13:39:36

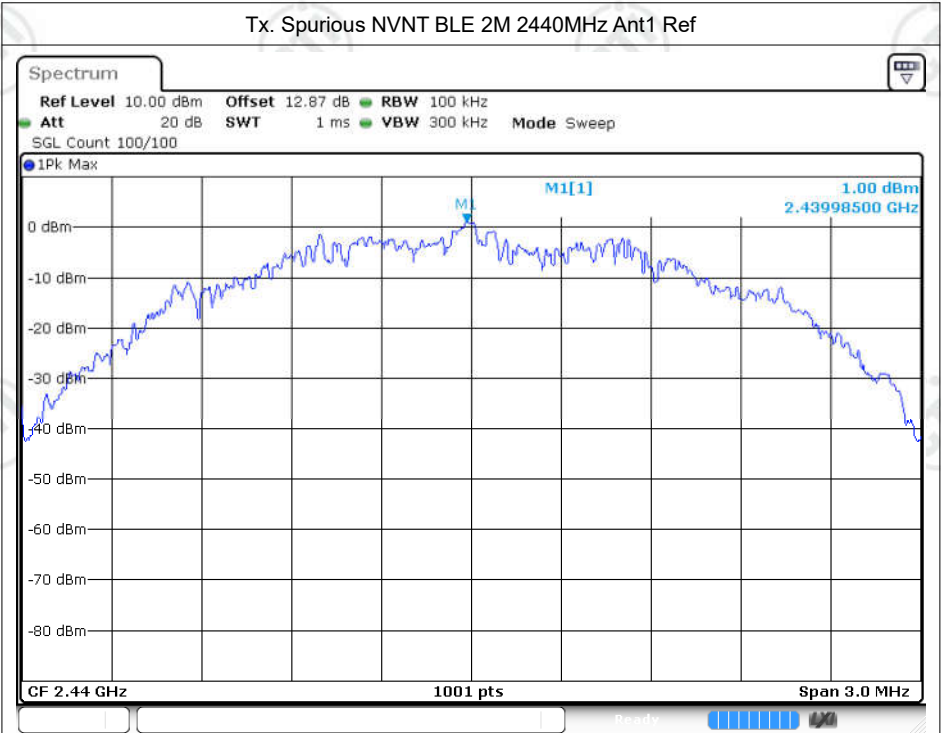




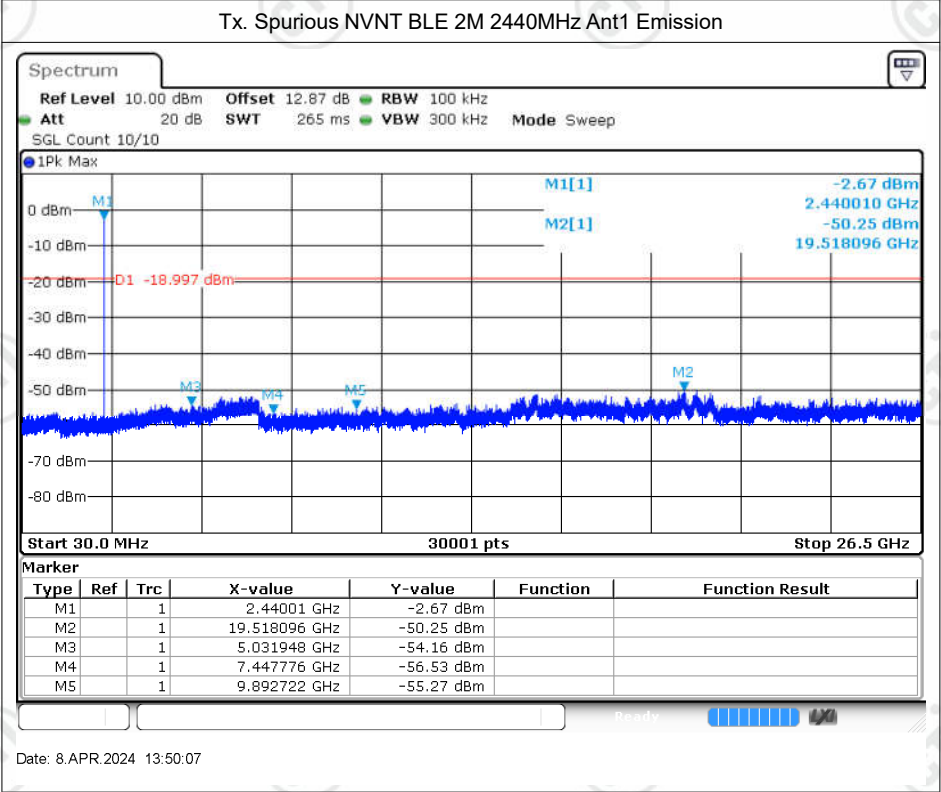
Date: 8.APR.2024 13:43:34



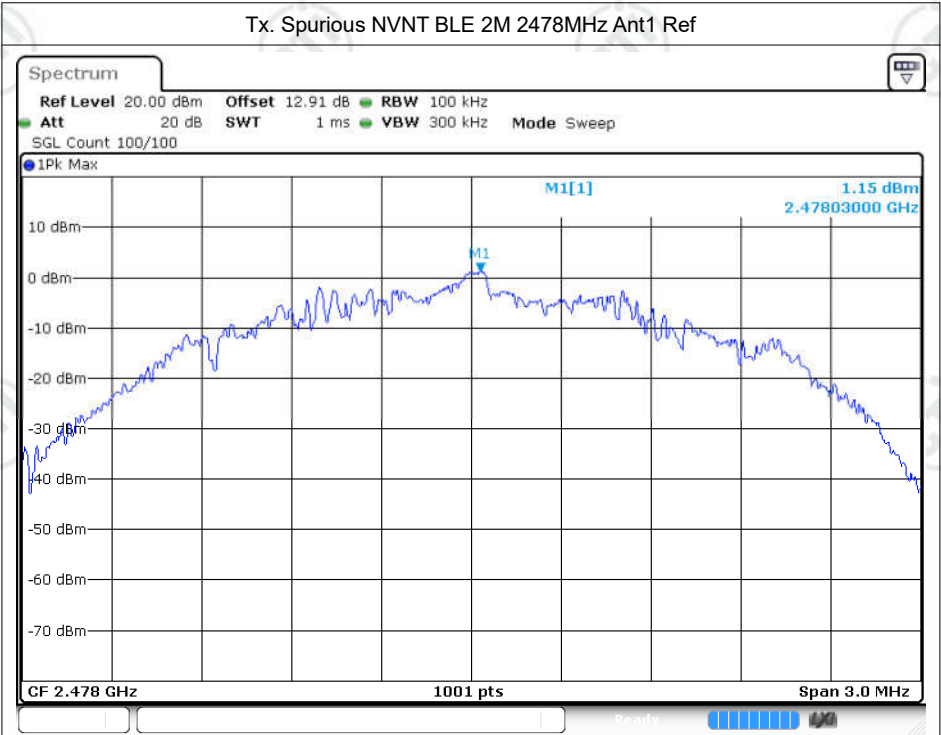
Date: 8.APR.2024 13:43:46



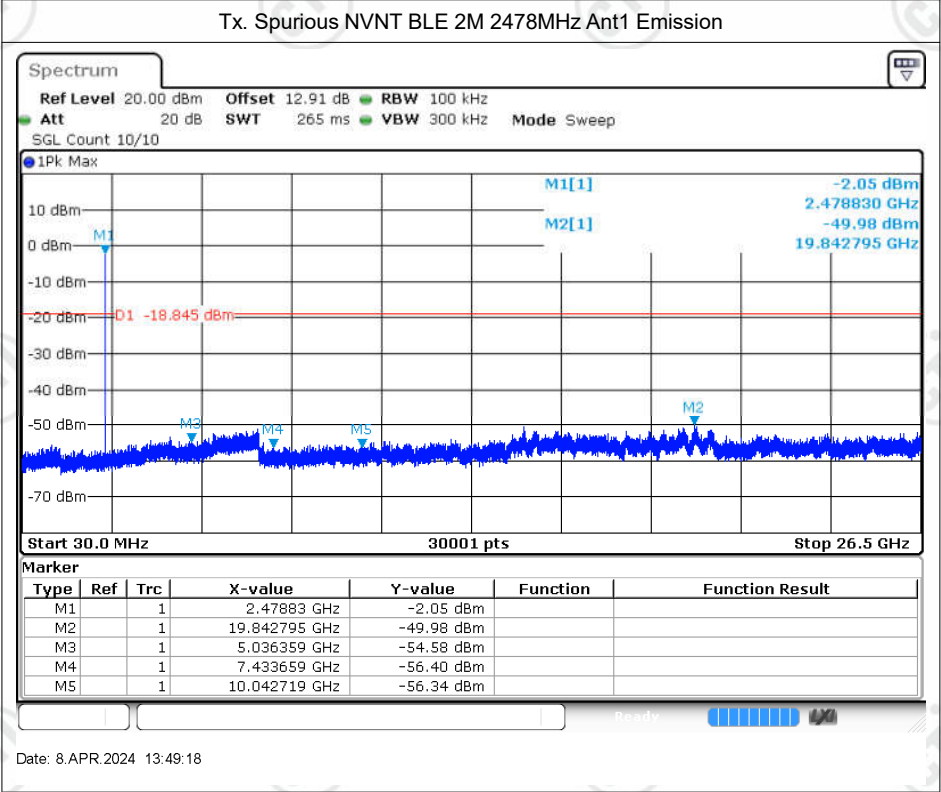
Date: 8.APR.2024 13:49:56



Date: 8.APR.2024 13:50:07



Date: 8.APR.2024 13:49:07



Date: 8.APR.2024 13:49:18

*** End of Report ***