

Appendix: Bluetooth LE

Contents

Contents.....2

Duty Cycle.....3

Maximum Peak Conducted Output Power.....7

-6dB Bandwidth.....11

Occupied Channel Bandwidth.....15

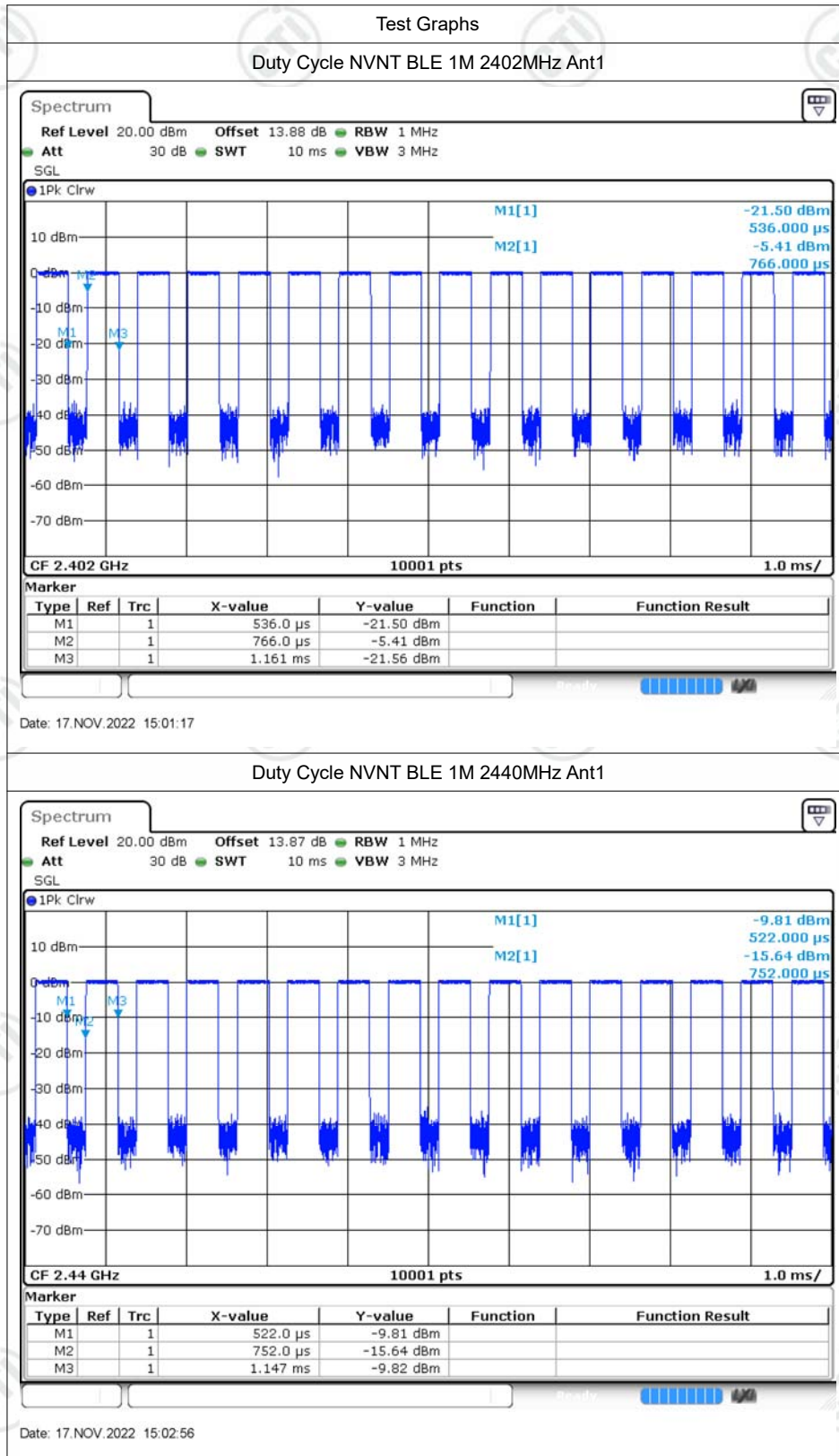
Maximum Power Spectral Density Level.....19

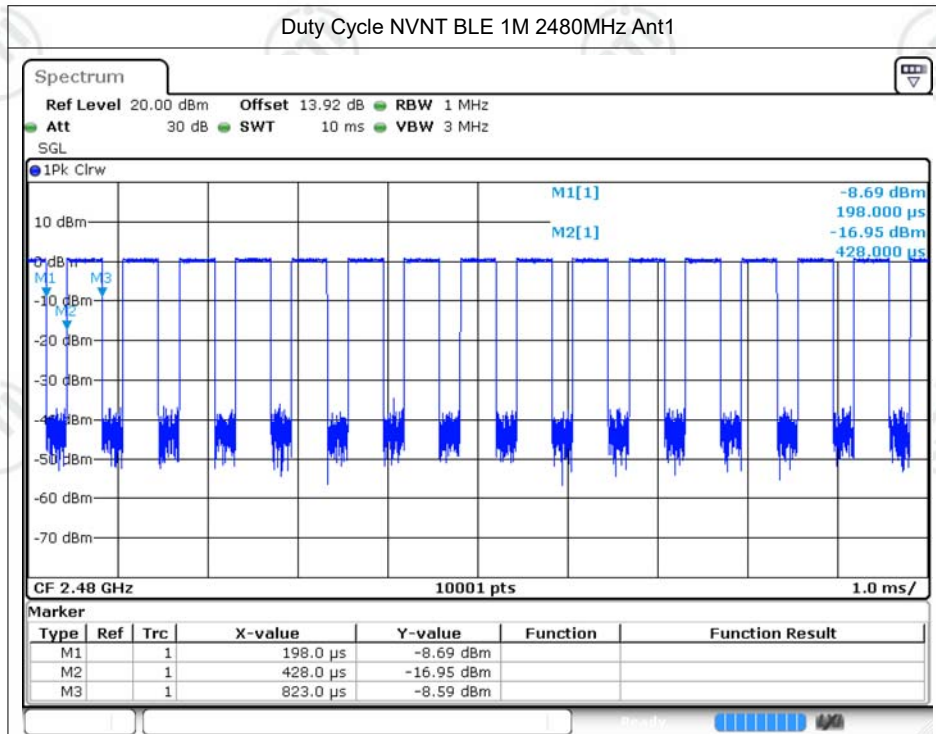
Band Edge.....23

Conducted RF Spurious Emission.....28

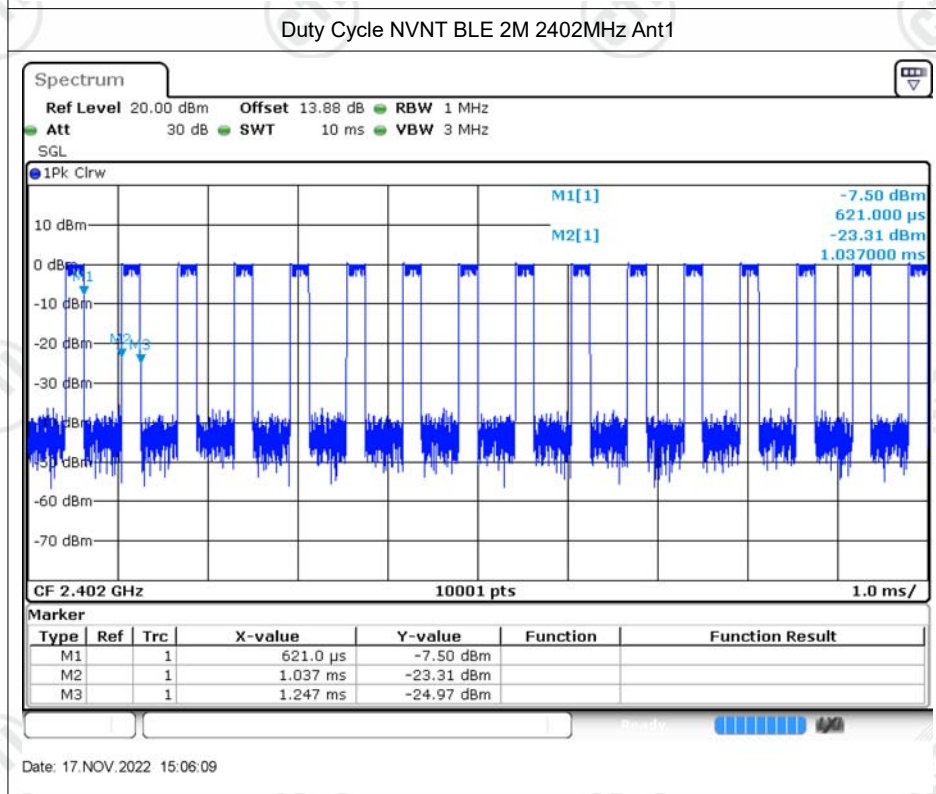
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	63.2	1.99	2.53
NVNT	BLE 1M	2440	Ant1	63.2	1.99	2.53
NVNT	BLE 1M	2480	Ant1	63.2	1.99	2.53
NVNT	BLE 2M	2402	Ant1	33.55	4.74	4.76
NVNT	BLE 2M	2440	Ant1	33.44	4.76	4.78
NVNT	BLE 2M	2480	Ant1	33.44	4.76	4.78

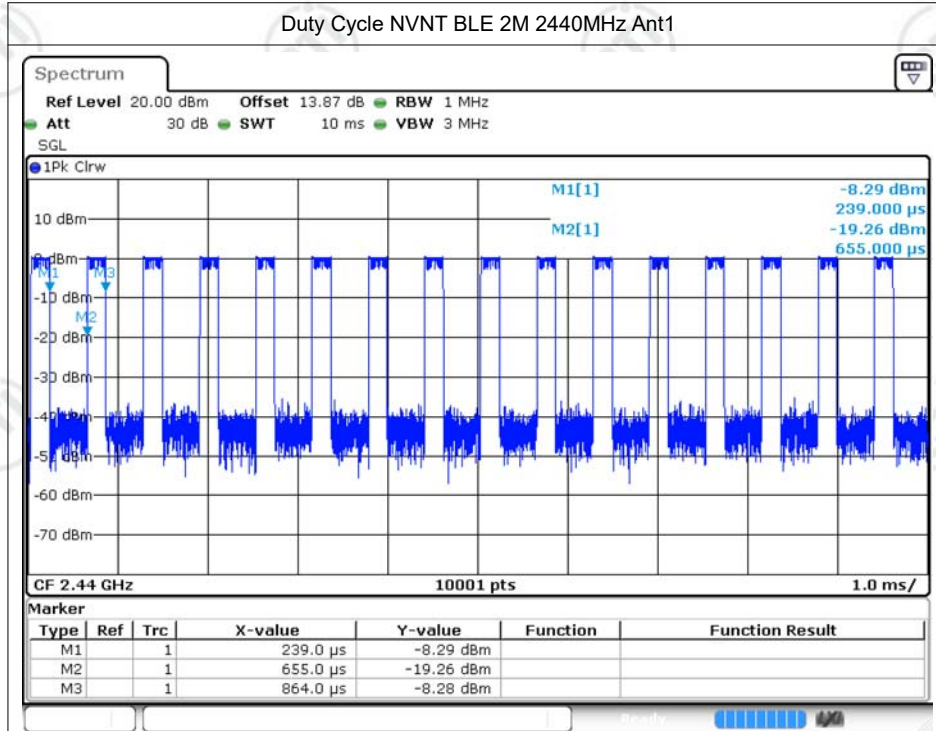




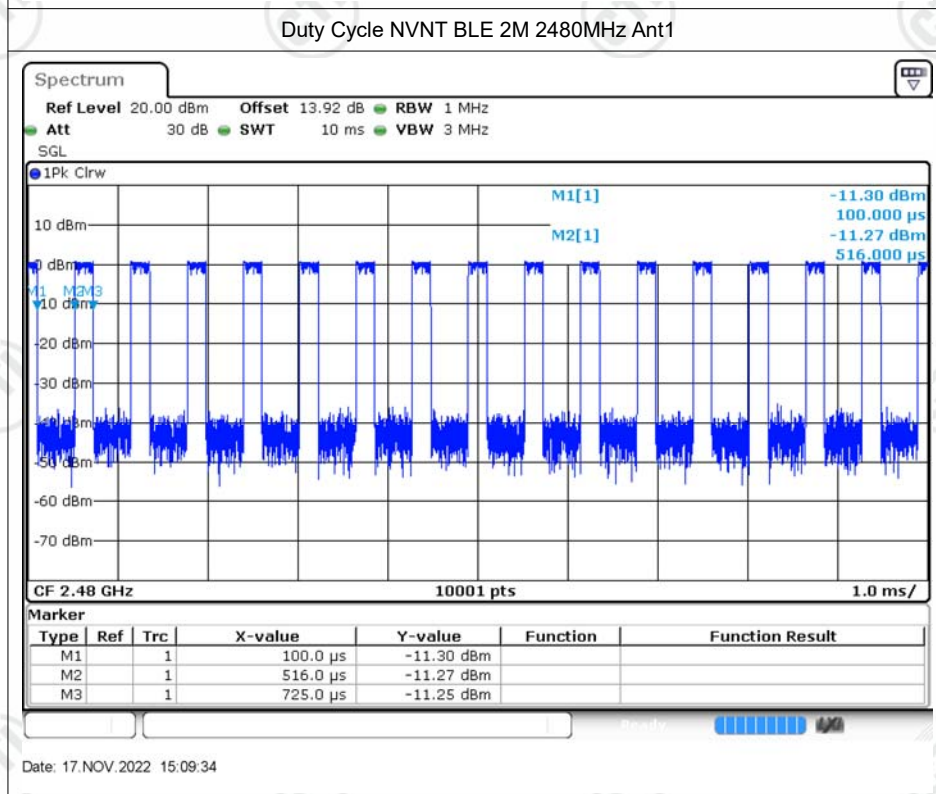
Date: 17.NOV.2022 15:04:28



Date: 17.NOV.2022 15:06:09



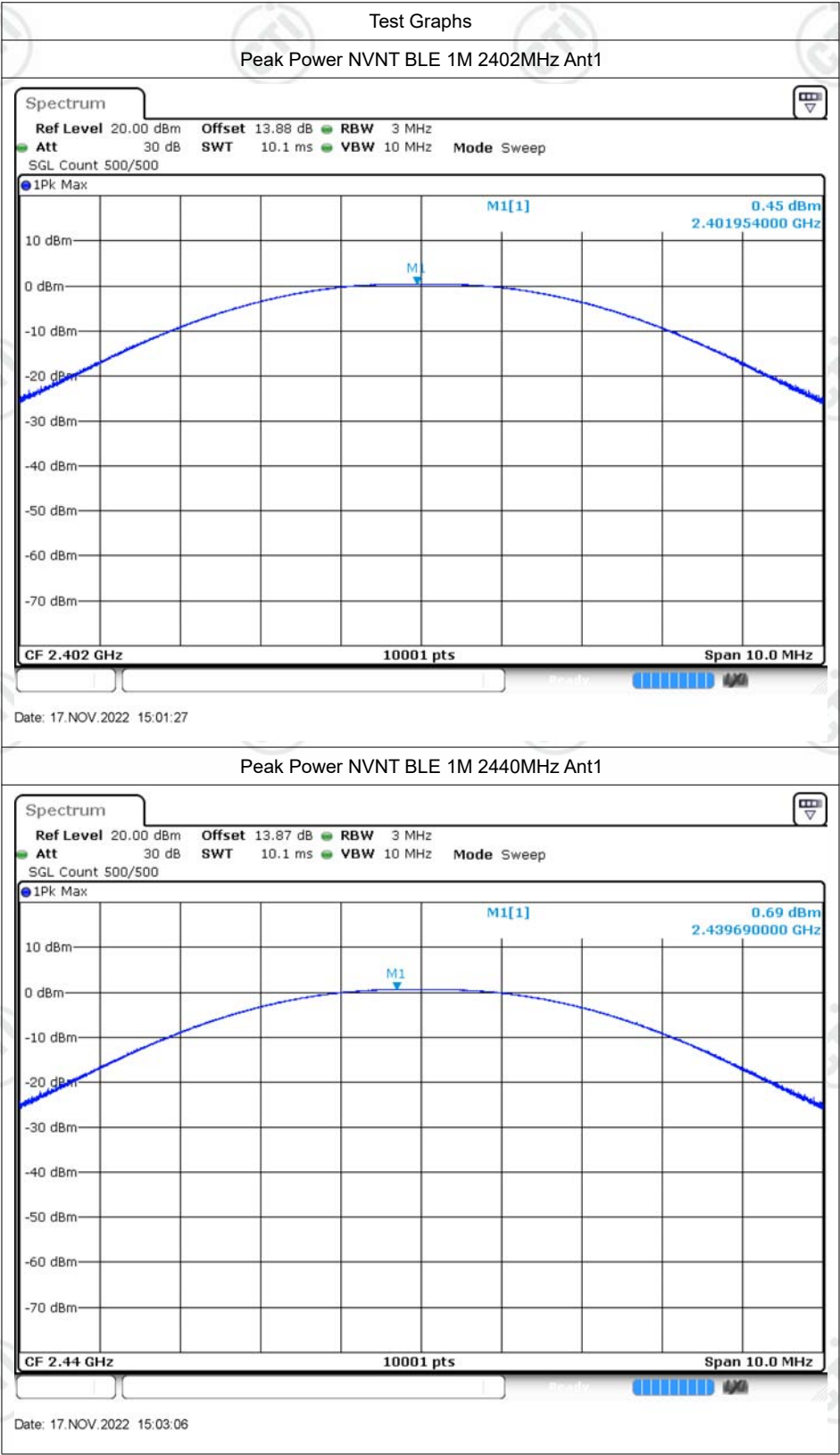
Date: 17.NOV.2022 15:08:00

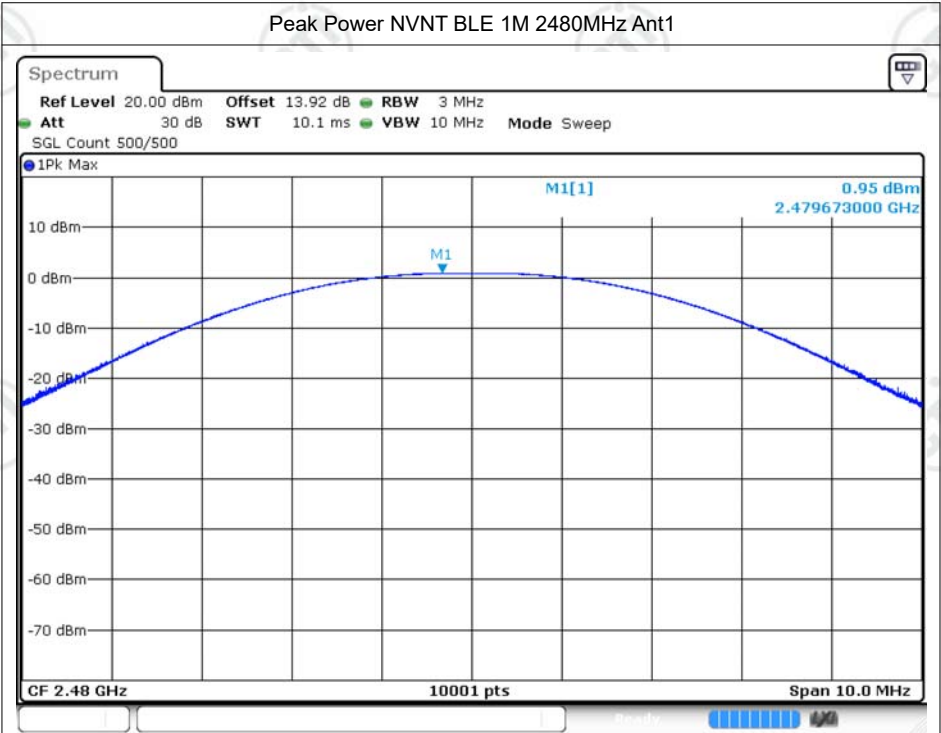


Date: 17.NOV.2022 15:09:34

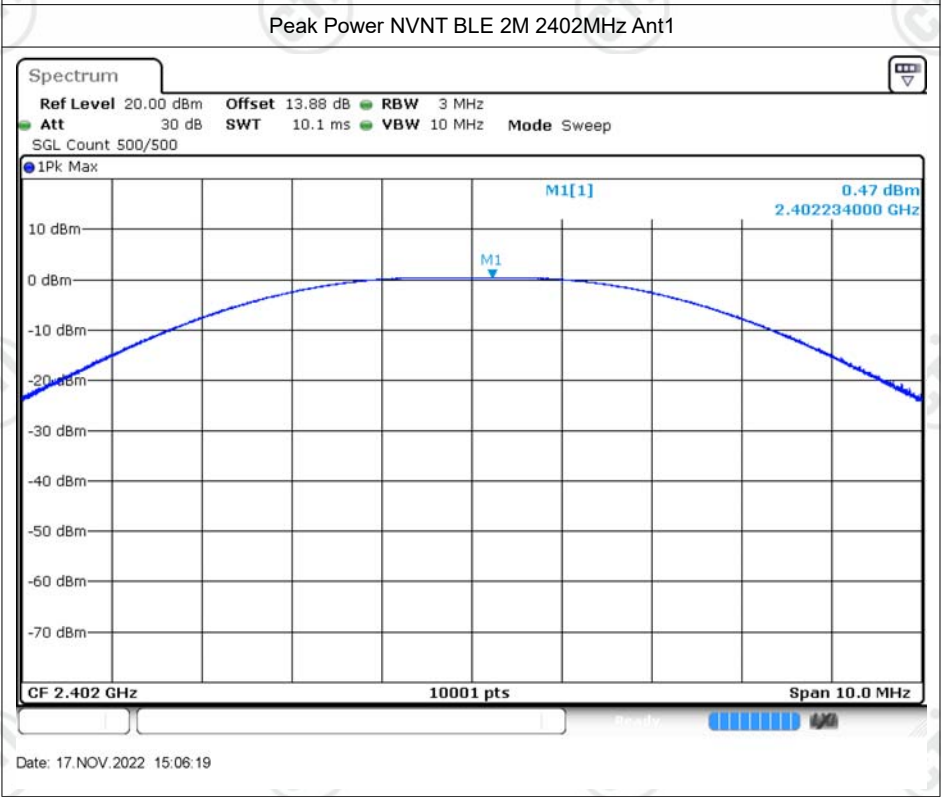
Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.45	0	0.45	30	Pass
NVNT	BLE 1M	2440	Ant1	0.69	0	0.69	30	Pass
NVNT	BLE 1M	2480	Ant1	0.95	0	0.95	30	Pass
NVNT	BLE 2M	2402	Ant1	0.47	0	0.47	30	Pass
NVNT	BLE 2M	2440	Ant1	0.71	0	0.71	30	Pass
NVNT	BLE 2M	2480	Ant1	0.93	0	0.93	30	Pass

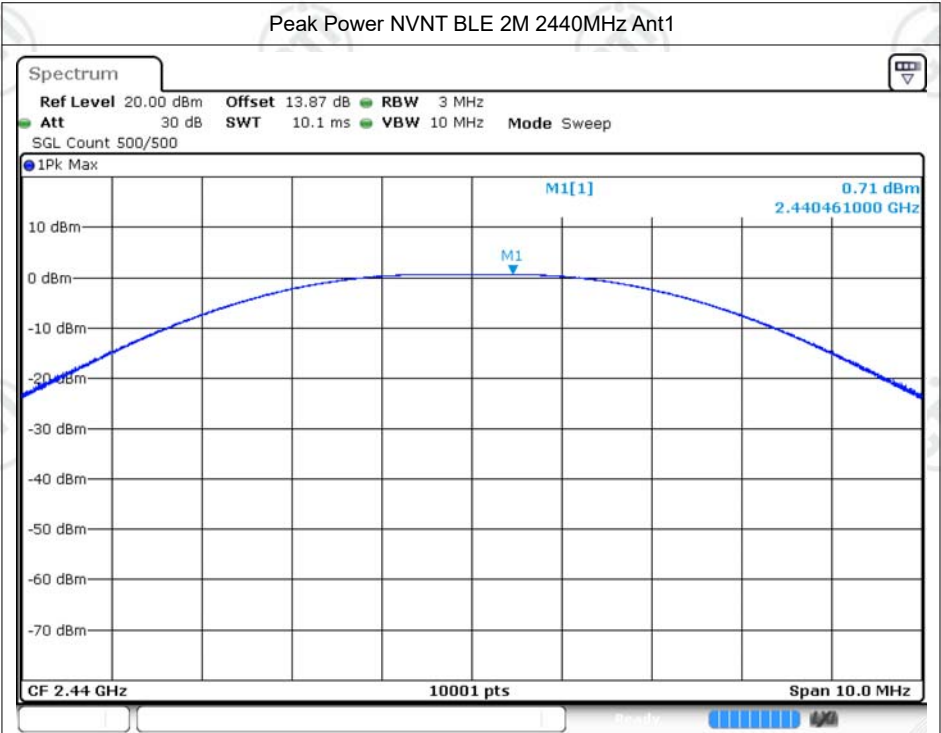




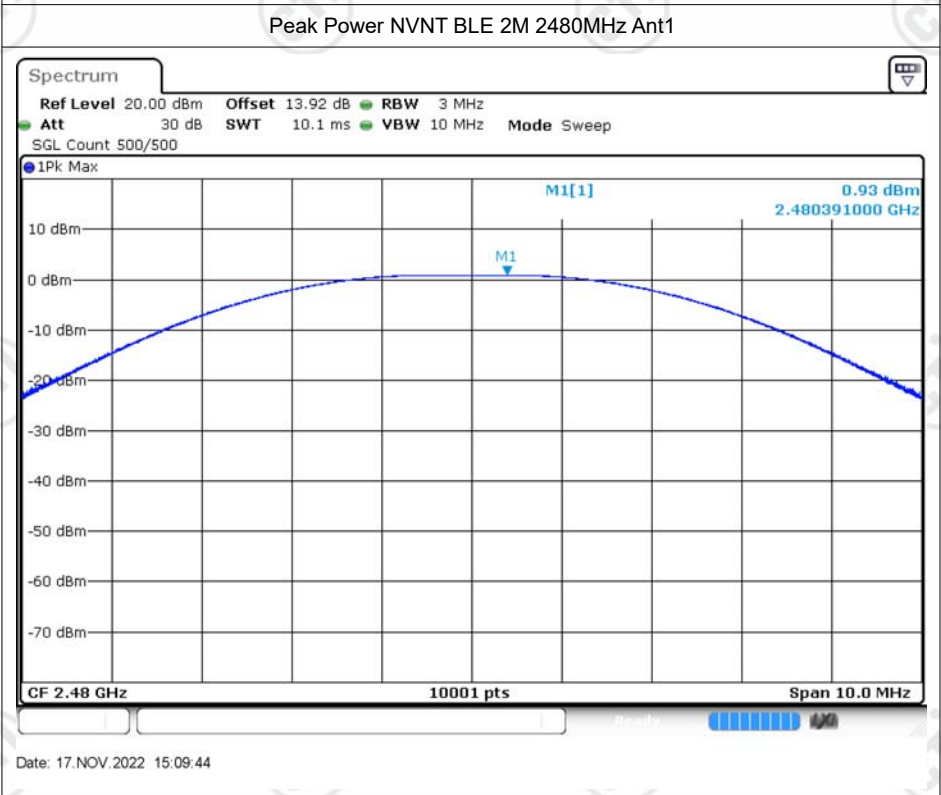
Date: 17.NOV.2022 15:04:38



Date: 17.NOV.2022 15:06:19



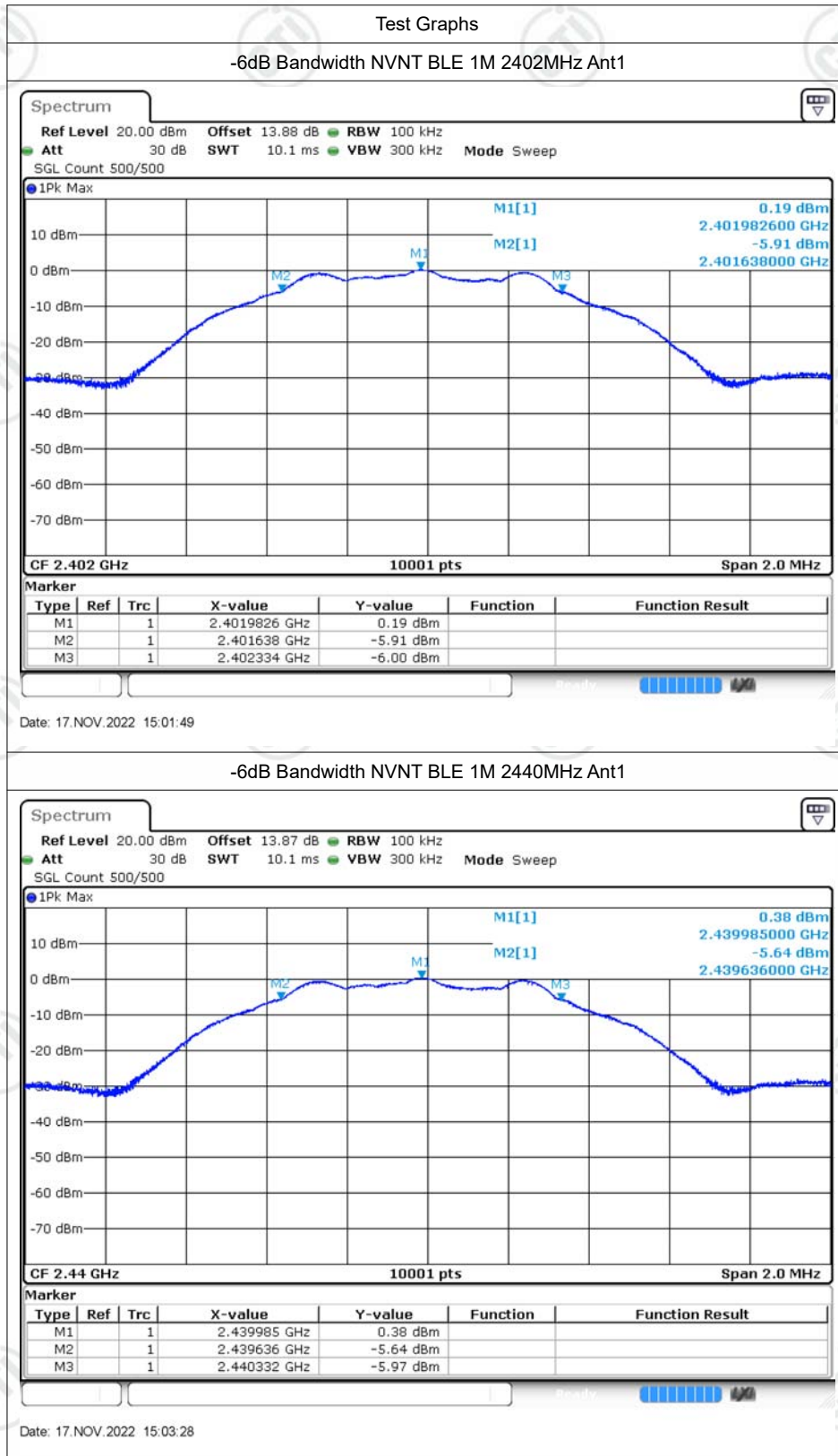
Date: 17.NOV.2022 15:08:10

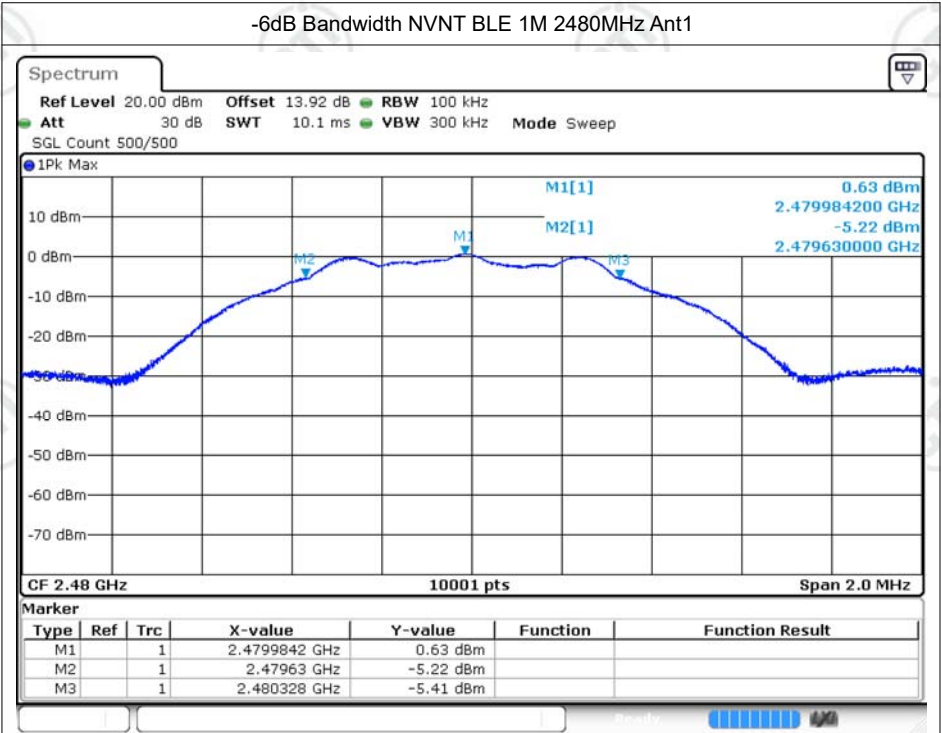


Date: 17.NOV.2022 15:09:44

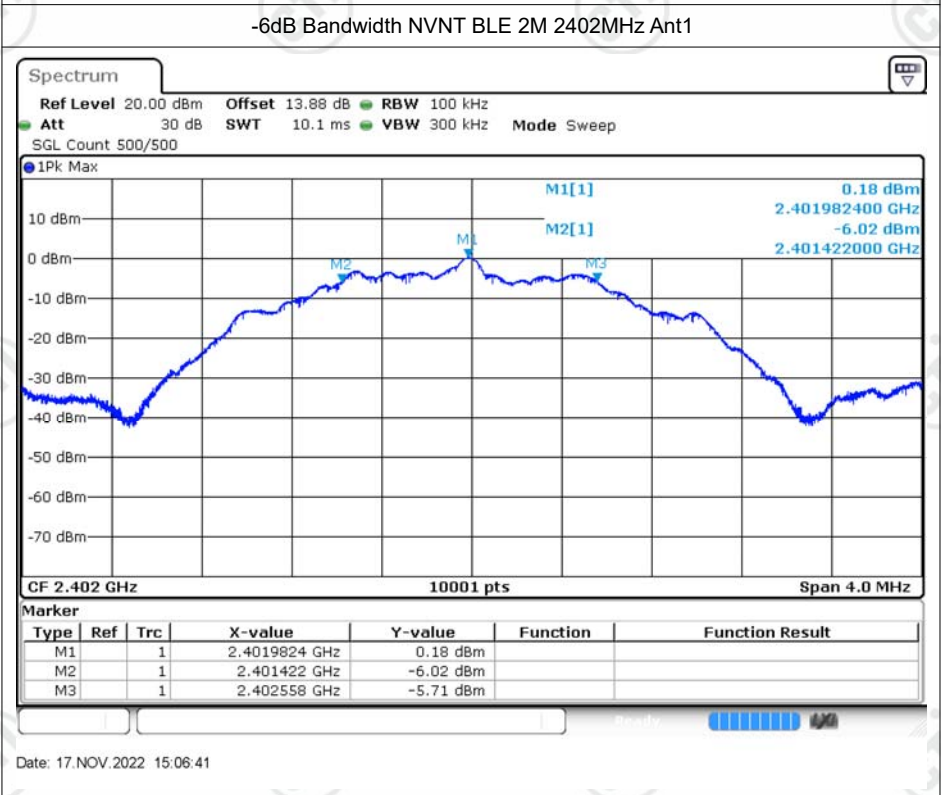
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.695	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.695	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.698	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.137	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.132	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.129	0.5	Pass

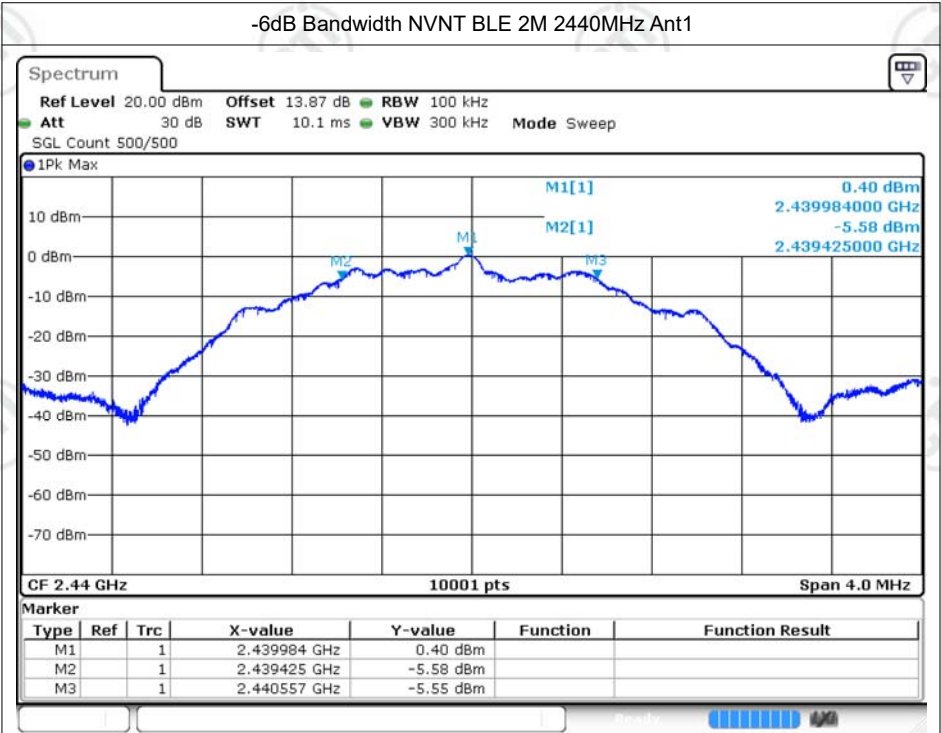




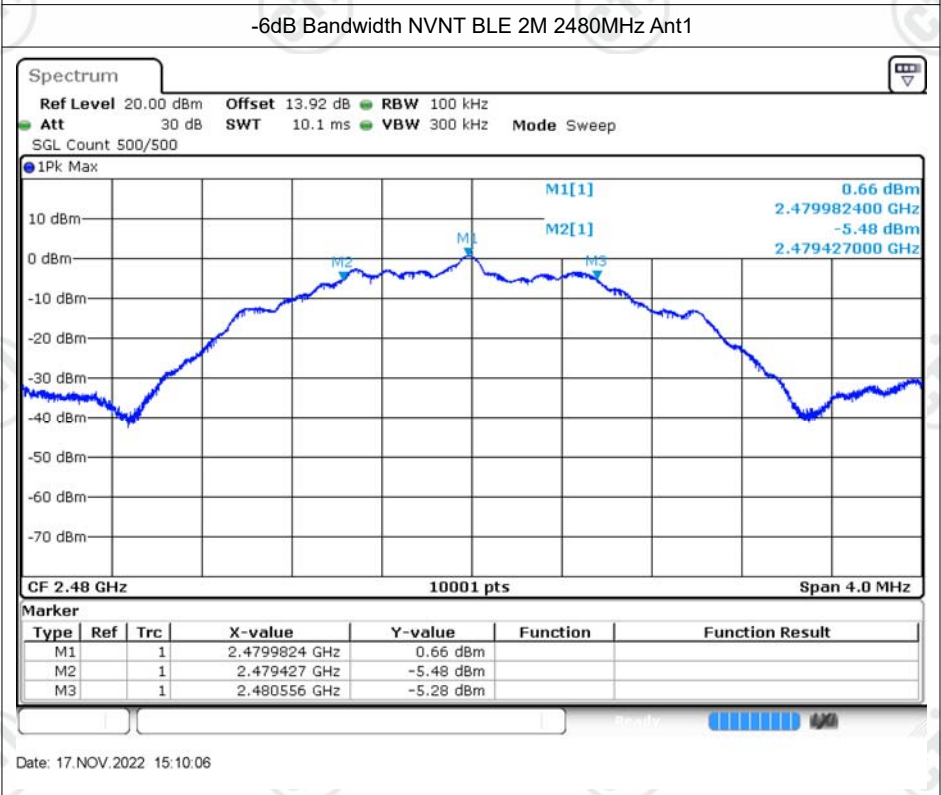
Date: 17.NOV.2022 15:05:00



Date: 17.NOV.2022 15:06:41



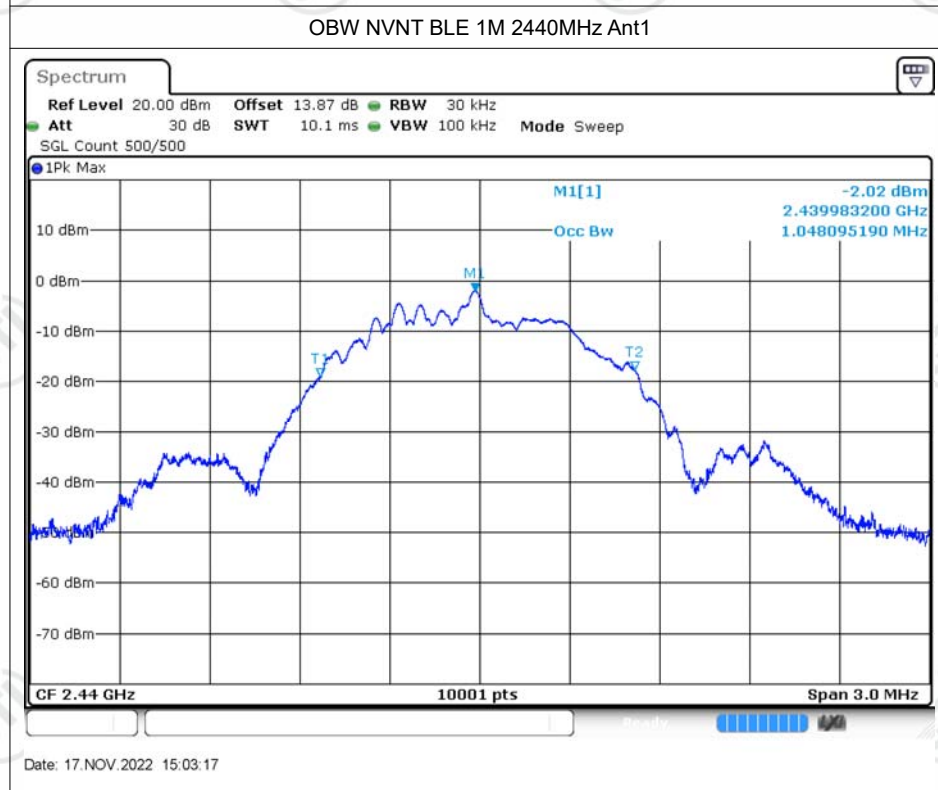
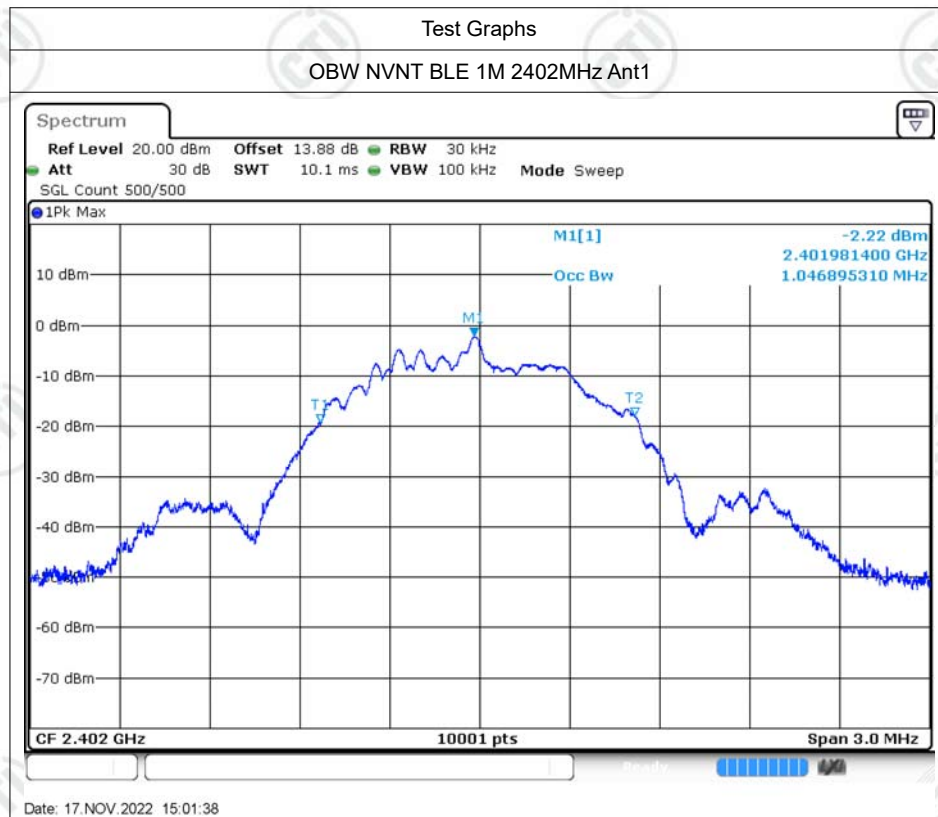
Date: 17.NOV.2022 15:08:32

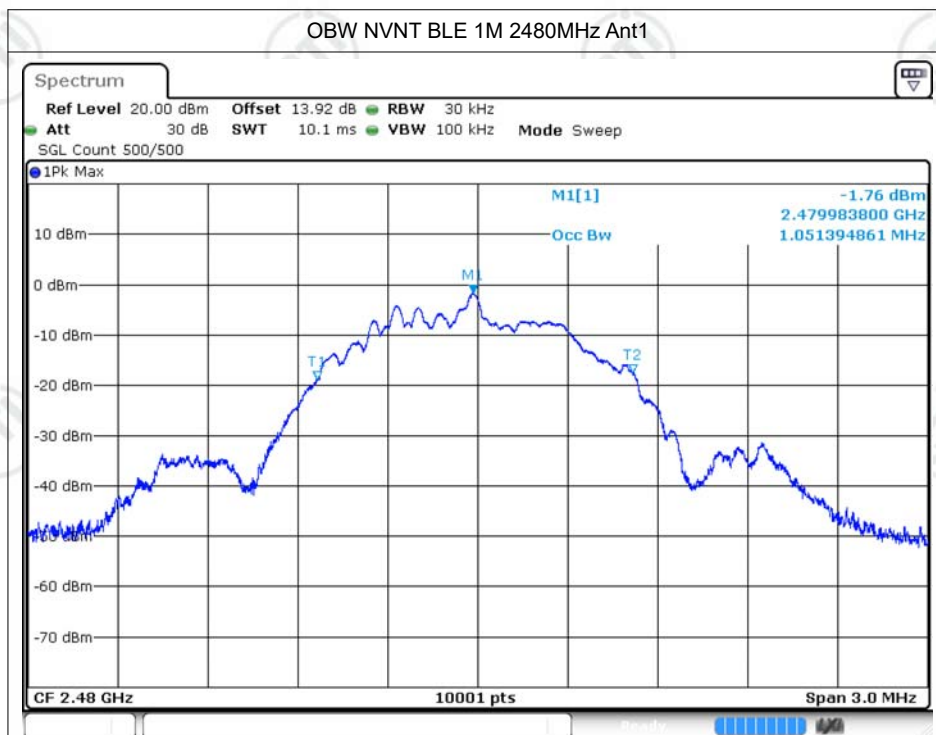


Date: 17.NOV.2022 15:10:06

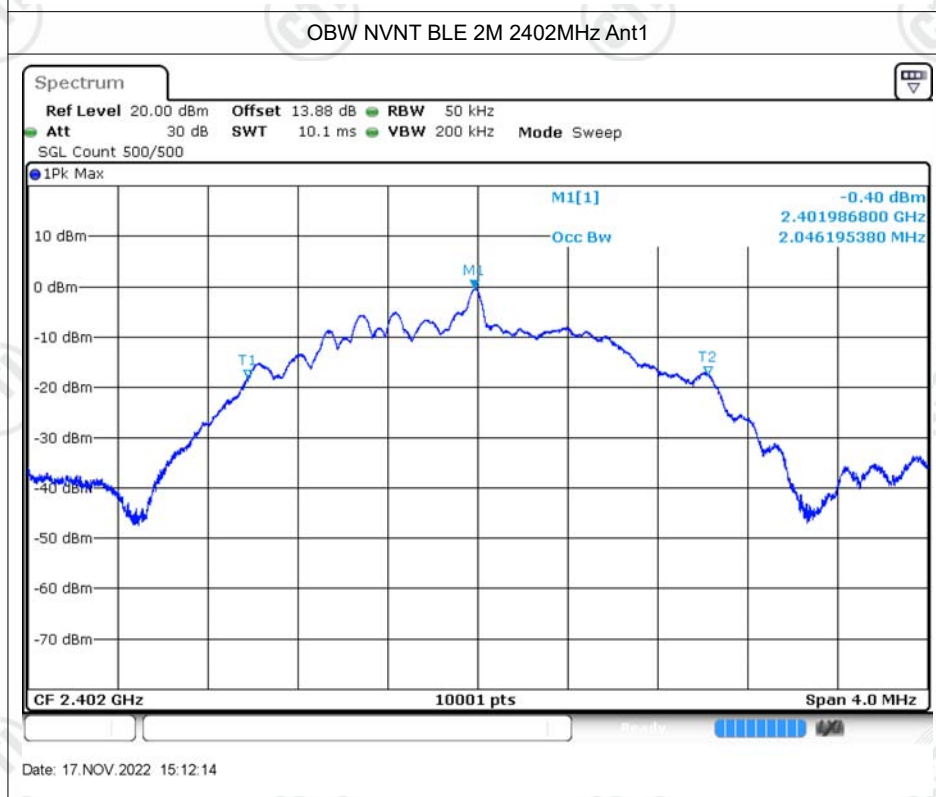
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.047
NVNT	BLE 1M	2440	Ant1	1.048
NVNT	BLE 1M	2480	Ant1	1.051
NVNT	BLE 2M	2402	Ant1	2.046
NVNT	BLE 2M	2440	Ant1	2.049
NVNT	BLE 2M	2480	Ant1	2.051

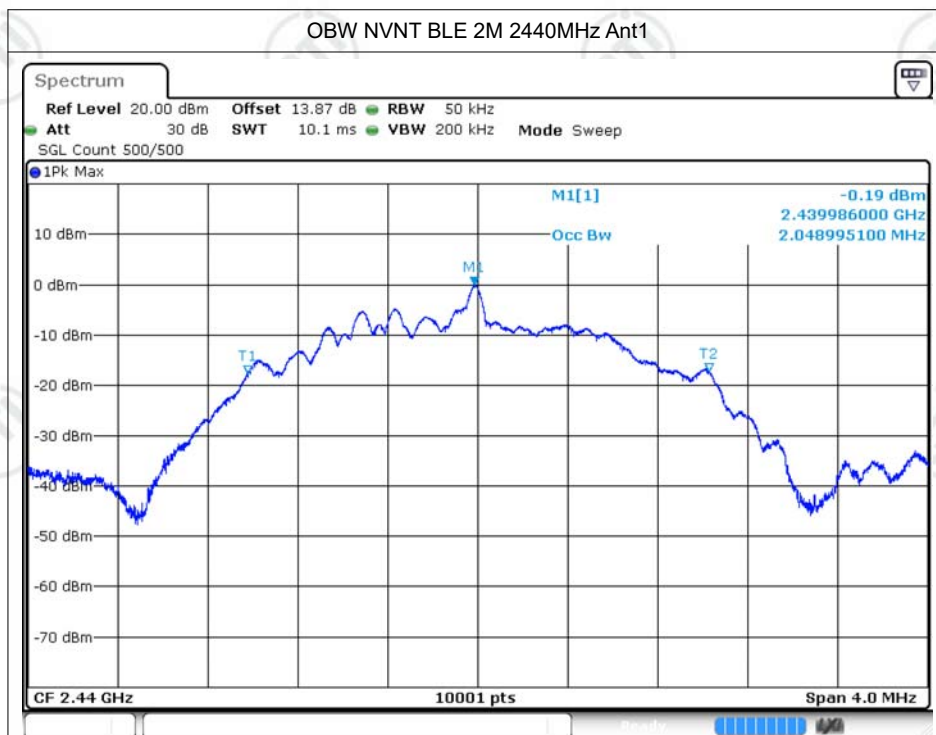




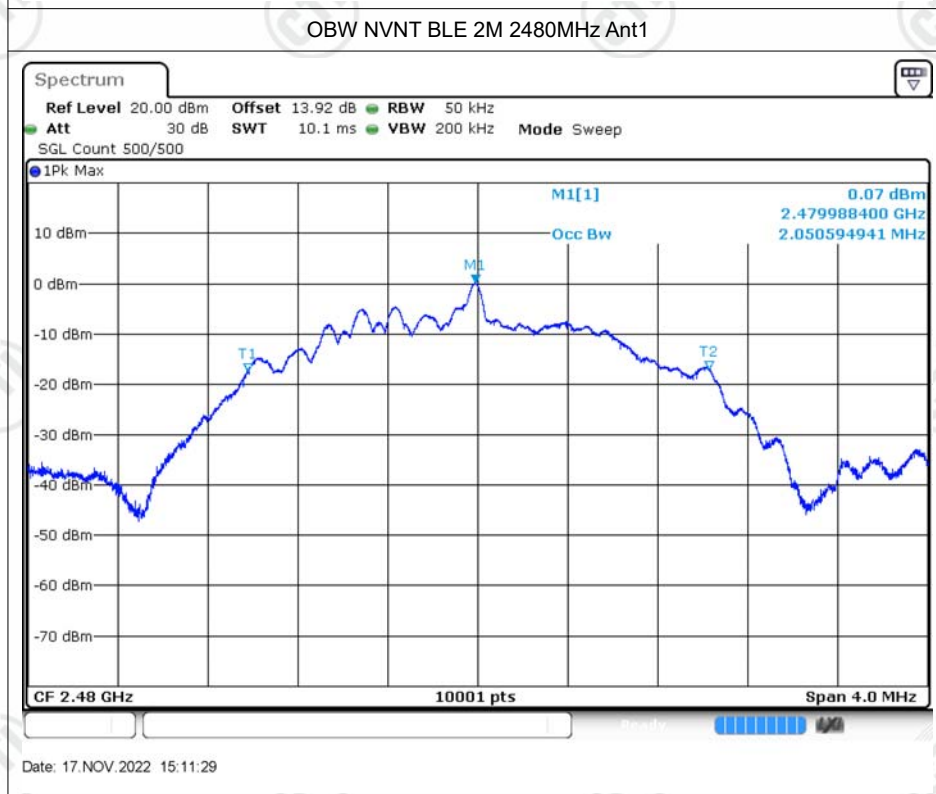
Date: 17.NOV.2022 15:04:49



Date: 17.NOV.2022 15:12:14



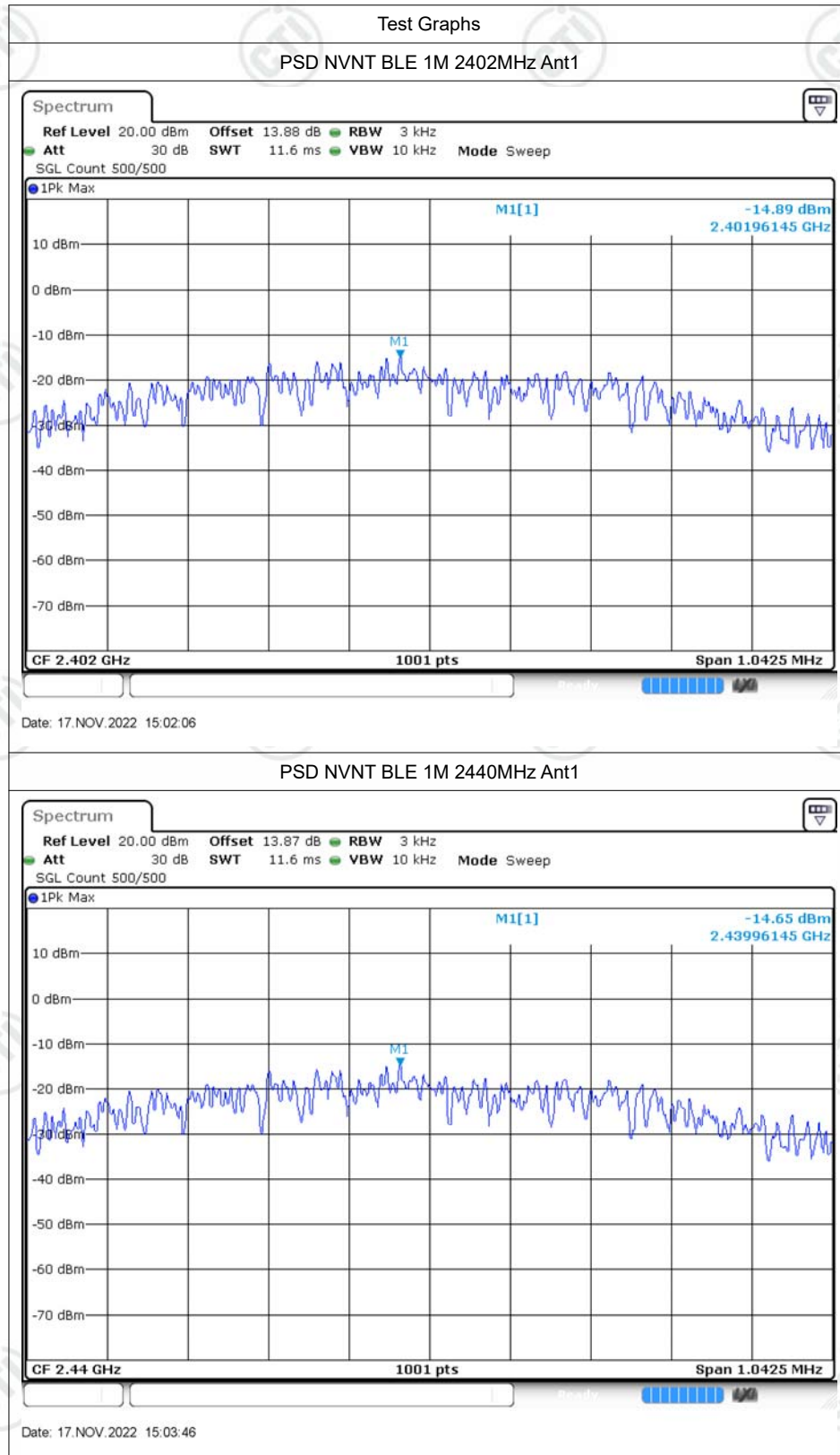
Date: 17.NOV.2022 15:11:57

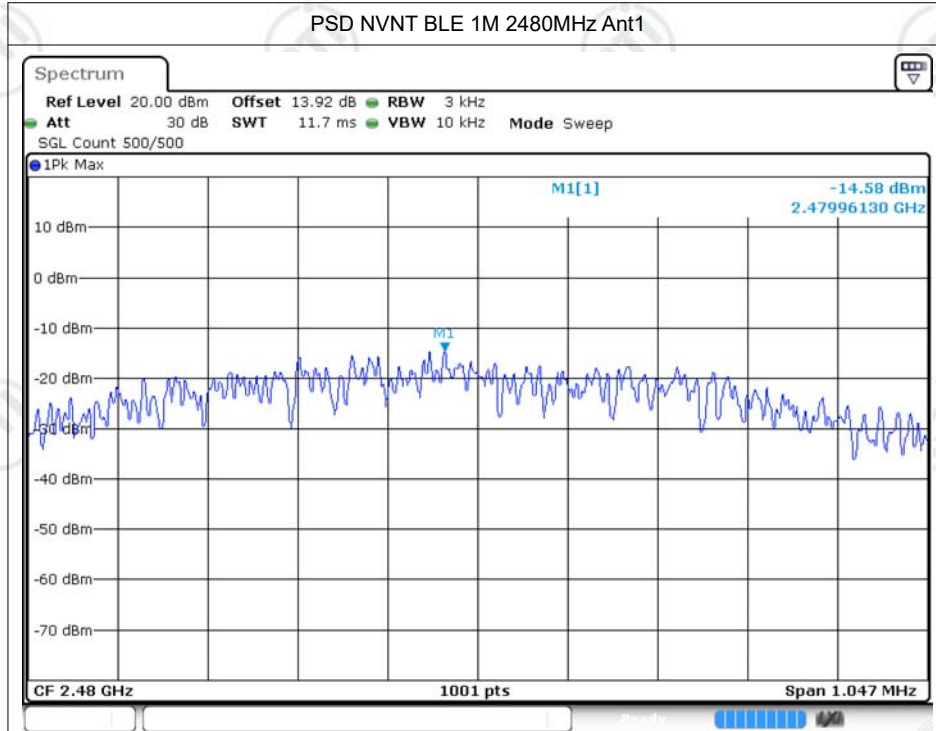


Date: 17.NOV.2022 15:11:29

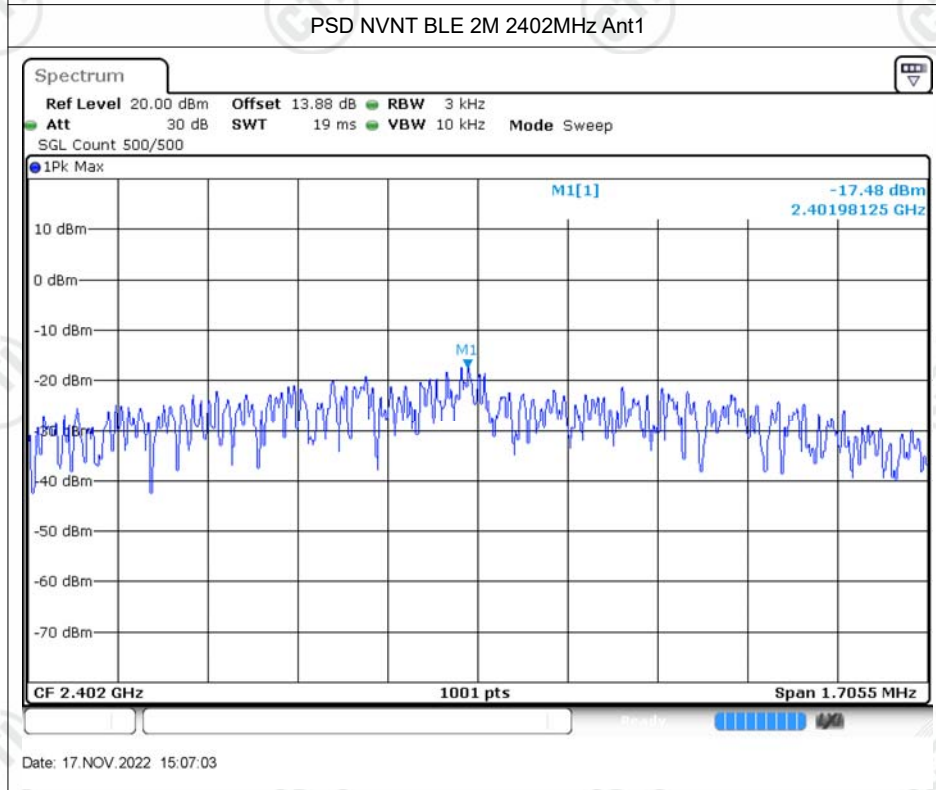
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-14.89	0	-14.89	8	Pass
NVNT	BLE 1M	2440	Ant1	-14.65	0	-14.65	8	Pass
NVNT	BLE 1M	2480	Ant1	-14.58	0	-14.58	8	Pass
NVNT	BLE 2M	2402	Ant1	-17.48	0	-17.48	8	Pass
NVNT	BLE 2M	2440	Ant1	-17.3	0	-17.3	8	Pass
NVNT	BLE 2M	2480	Ant1	-17.02	0	-17.02	8	Pass

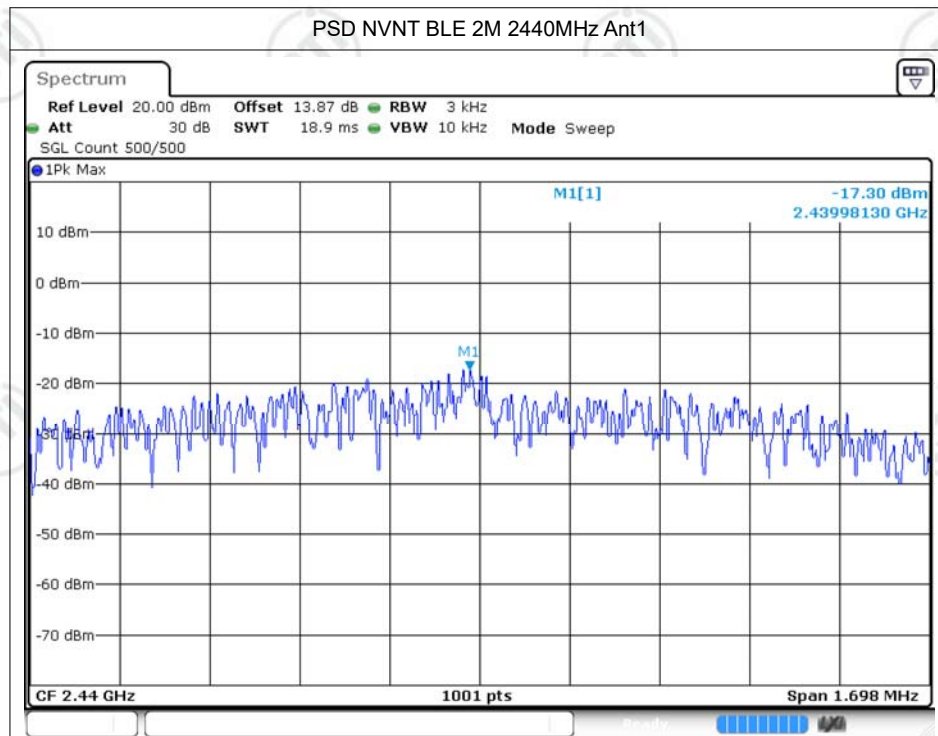




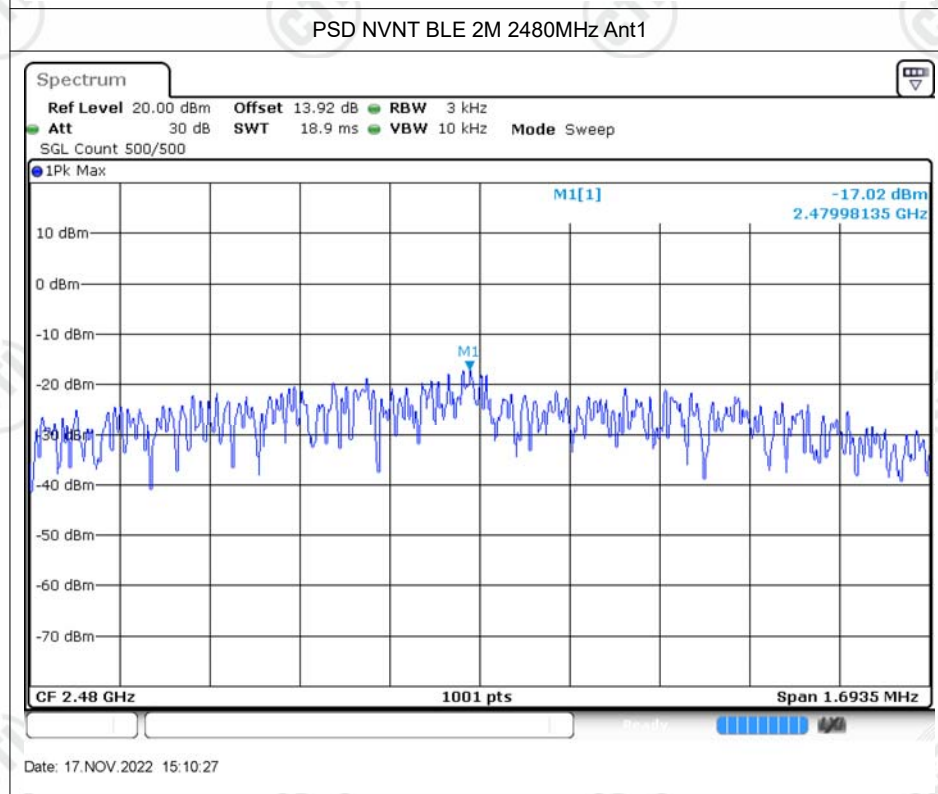
Date: 17.NOV.2022 15:05:18



Date: 17.NOV.2022 15:07:03



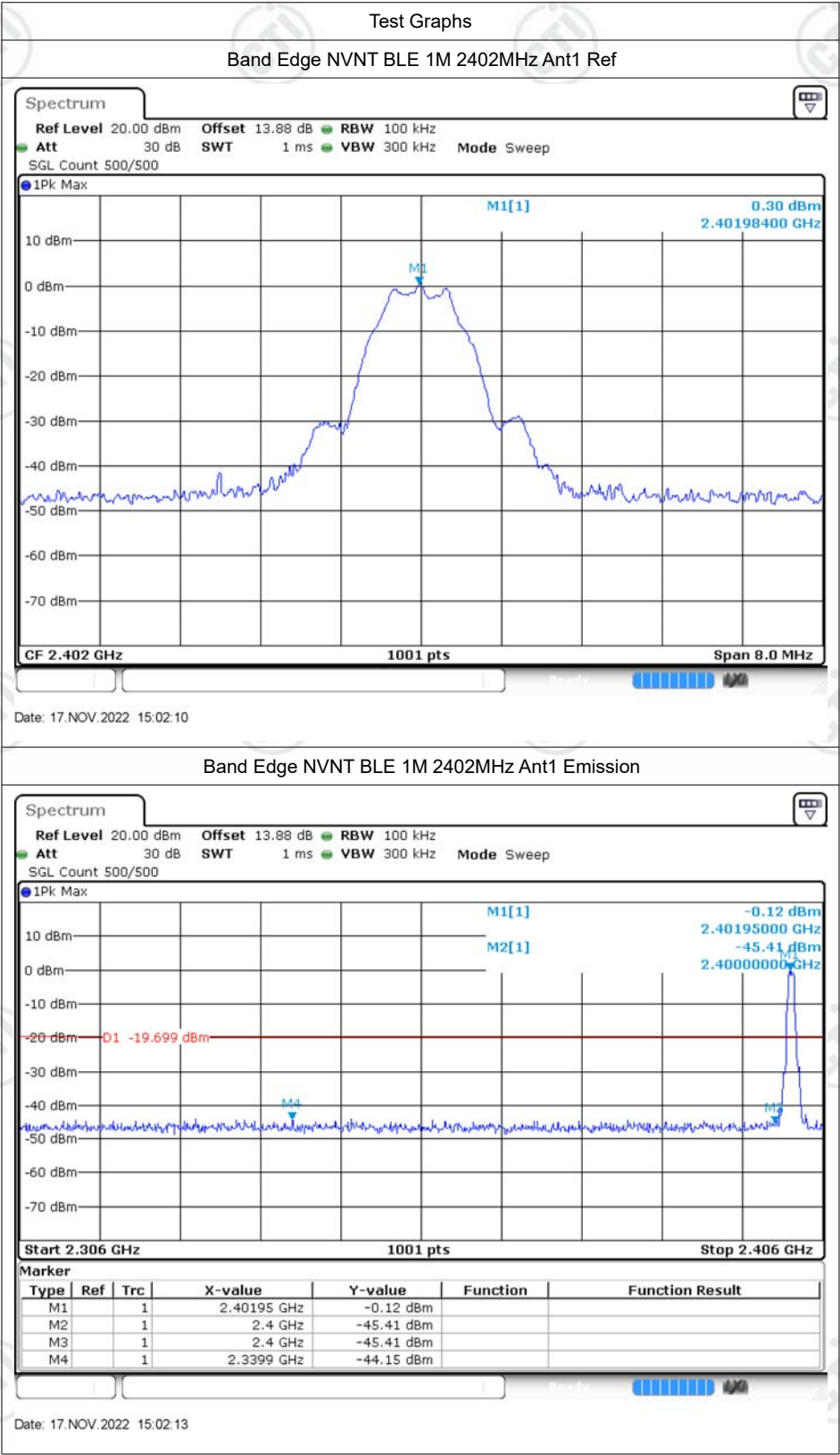
Date: 17.NOV.2022 15:08:53

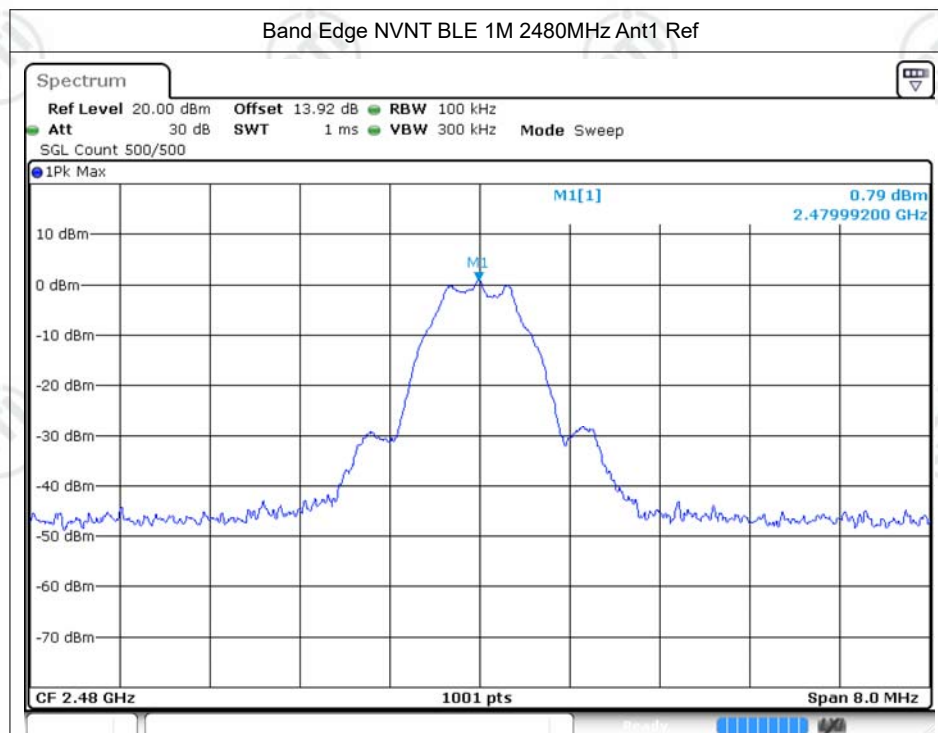


Date: 17.NOV.2022 15:10:27

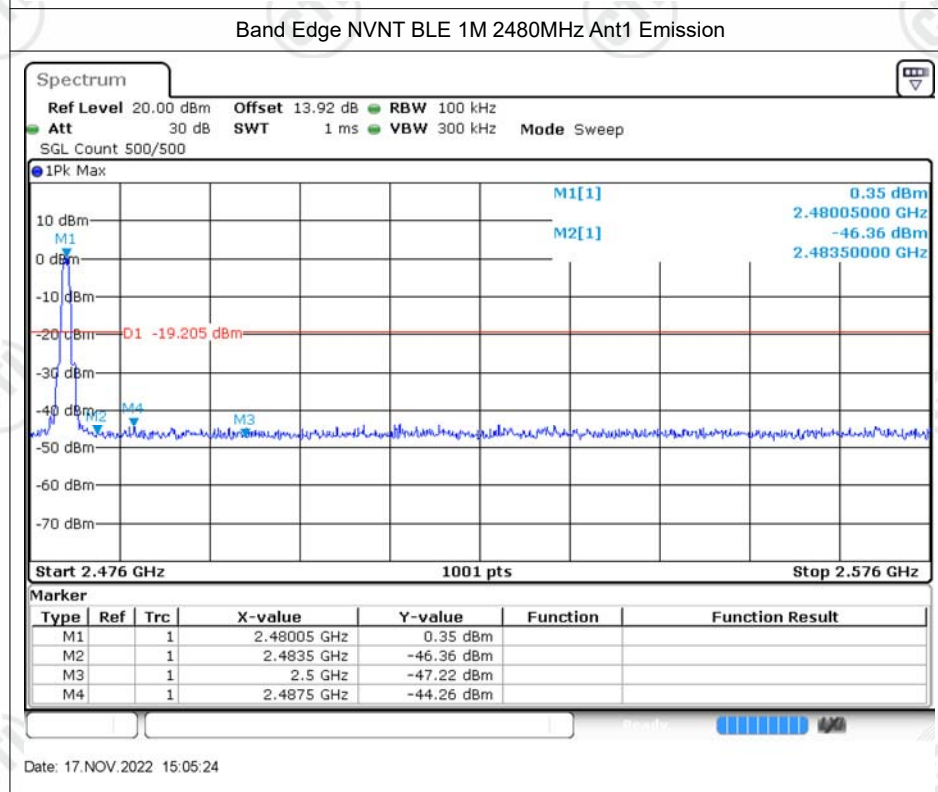
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-44.45	-20	Pass
NVNT	BLE 1M	2480	Ant1	-45.04	-20	Pass
NVNT	BLE 2M	2402	Ant1	-33.99	-20	Pass
NVNT	BLE 2M	2480	Ant1	-45.24	-20	Pass

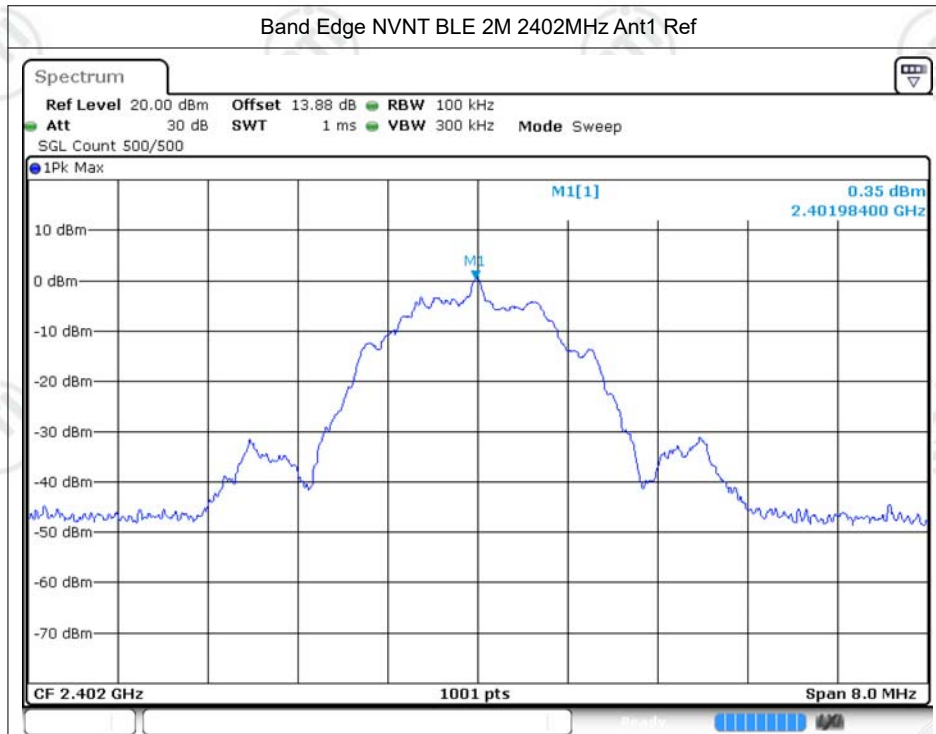




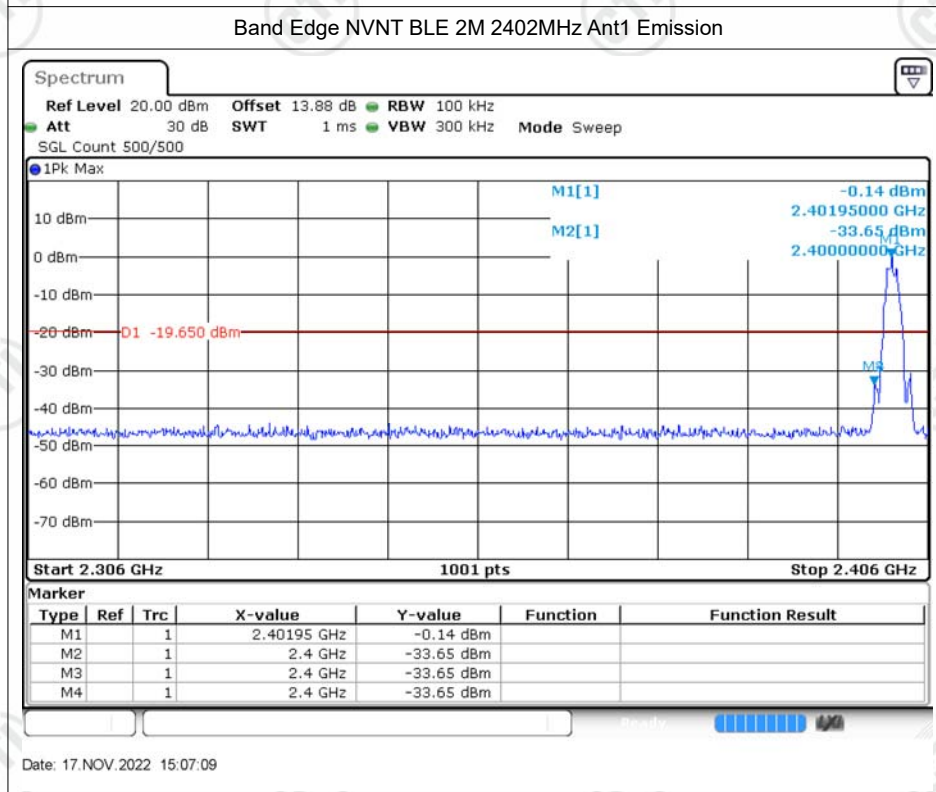
Date: 17.NOV.2022 15:05:21



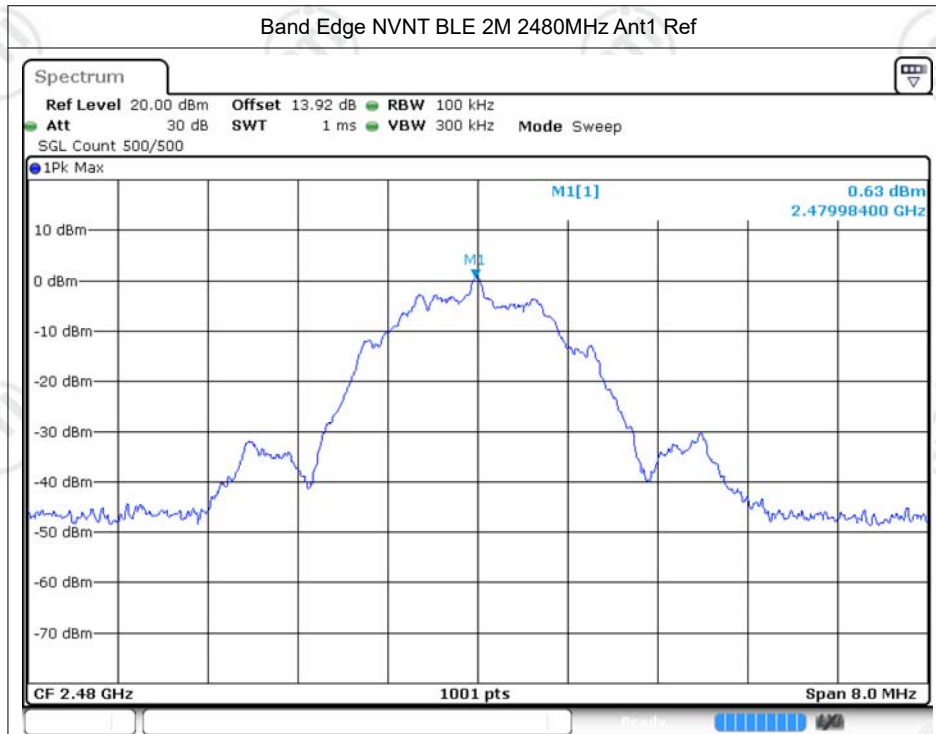
Date: 17.NOV.2022 15:05:24



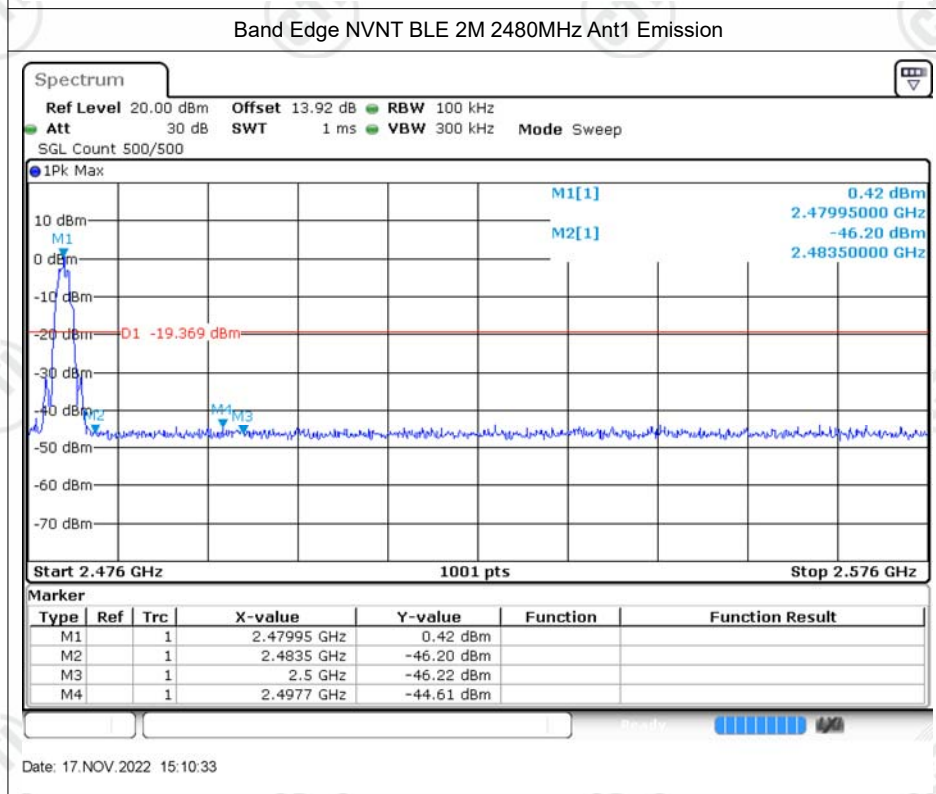
Date: 17.NOV.2022 15:07:06



Date: 17.NOV.2022 15:07:09



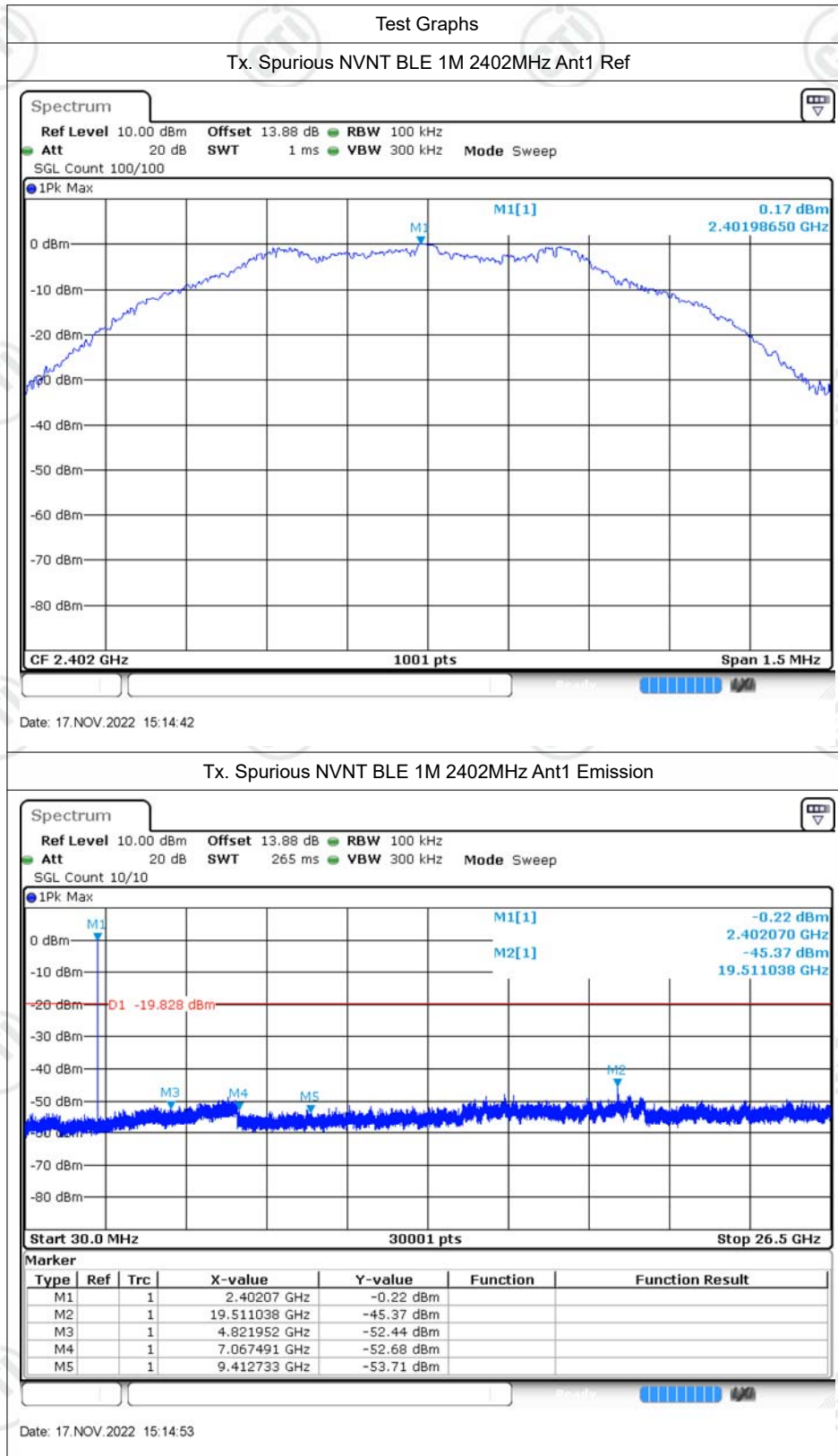
Date: 17.NOV.2022 15:10:31

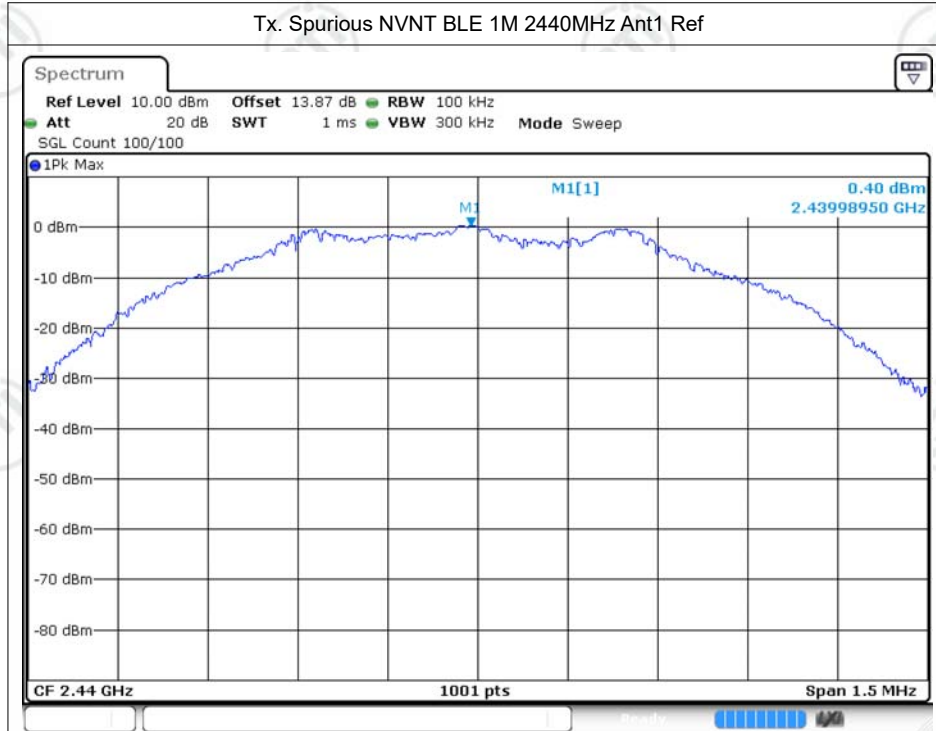


Date: 17.NOV.2022 15:10:33

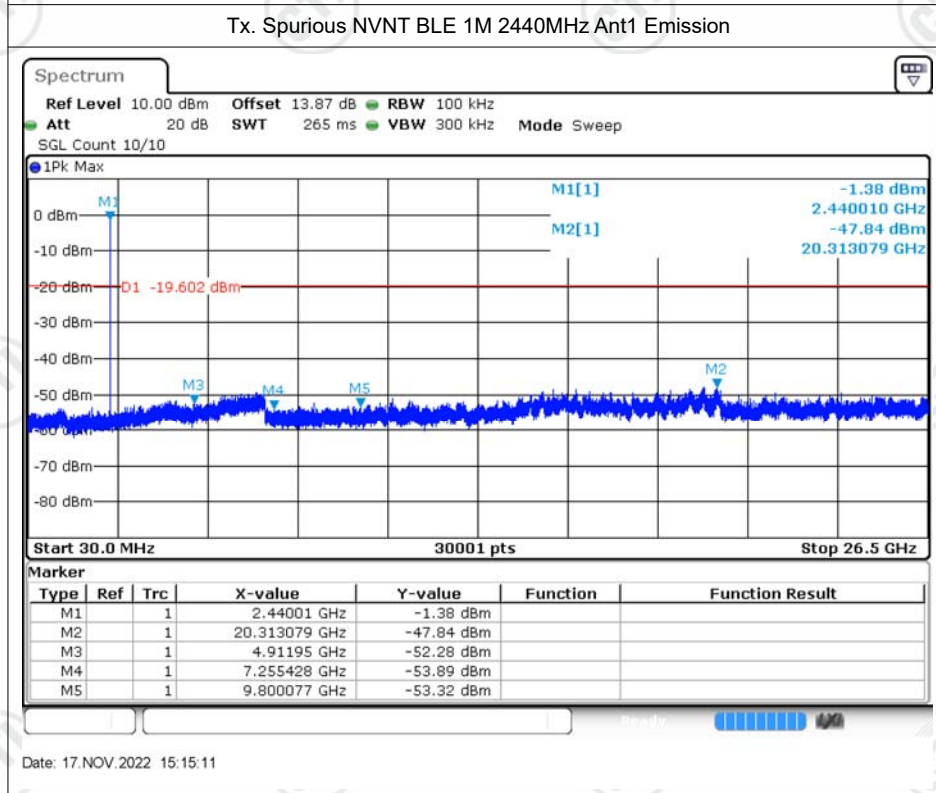
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-45.53	-20	Pass
NVNT	BLE 1M	2440	Ant1	-48.23	-20	Pass
NVNT	BLE 1M	2480	Ant1	-48.58	-20	Pass
NVNT	BLE 2M	2402	Ant1	-48	-20	Pass
NVNT	BLE 2M	2440	Ant1	-46.99	-20	Pass
NVNT	BLE 2M	2480	Ant1	-48.39	-20	Pass

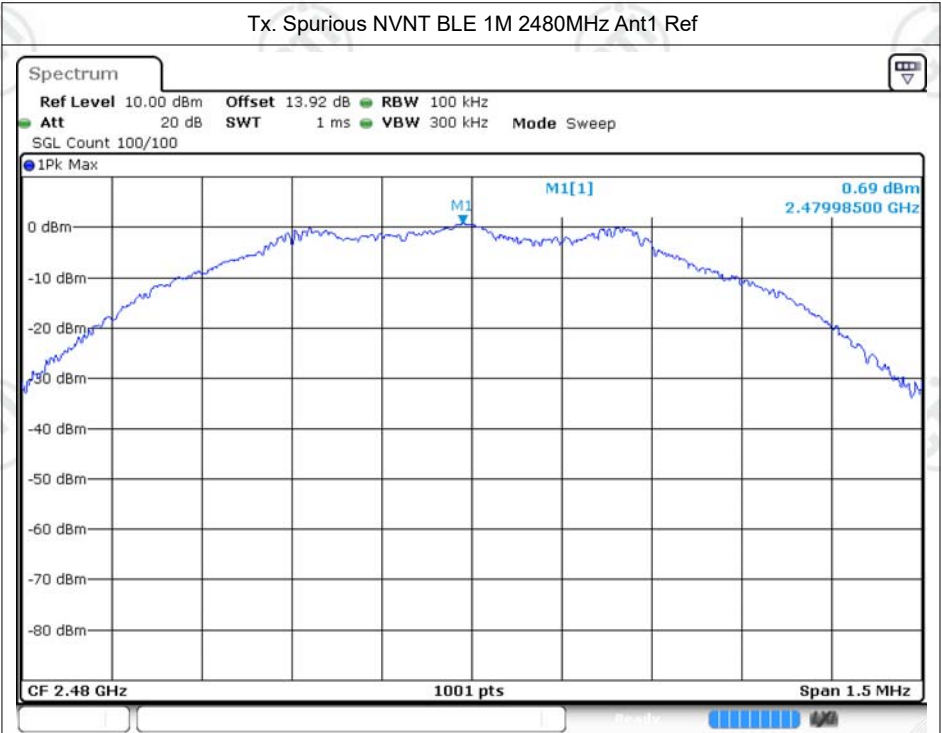




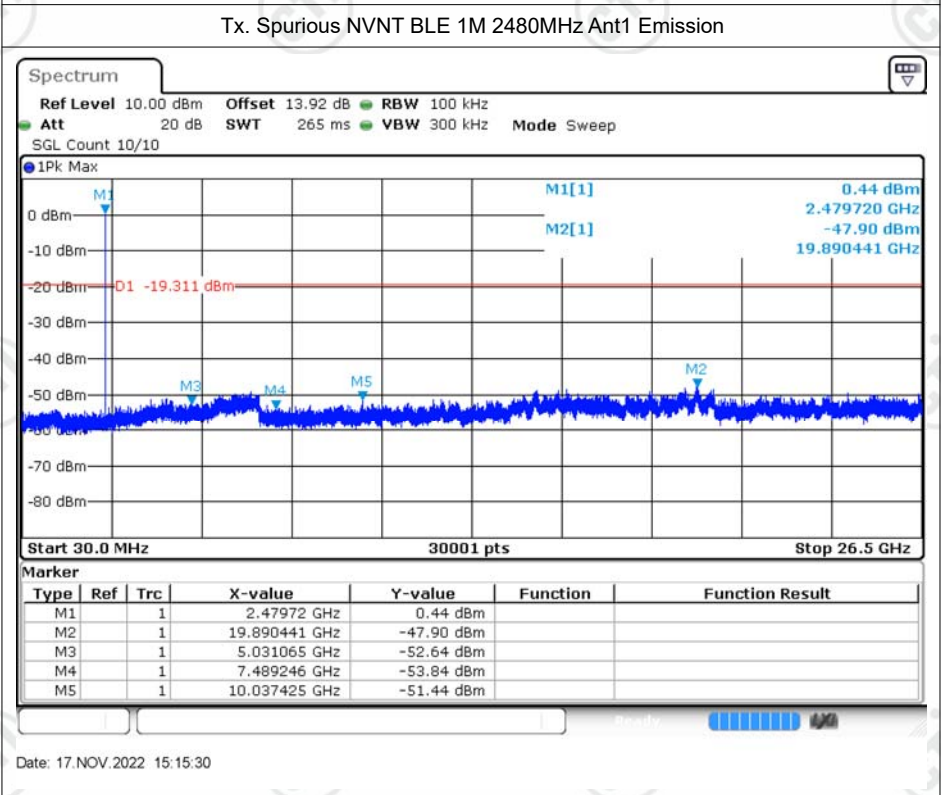
Date: 17.NOV.2022 15:15:00



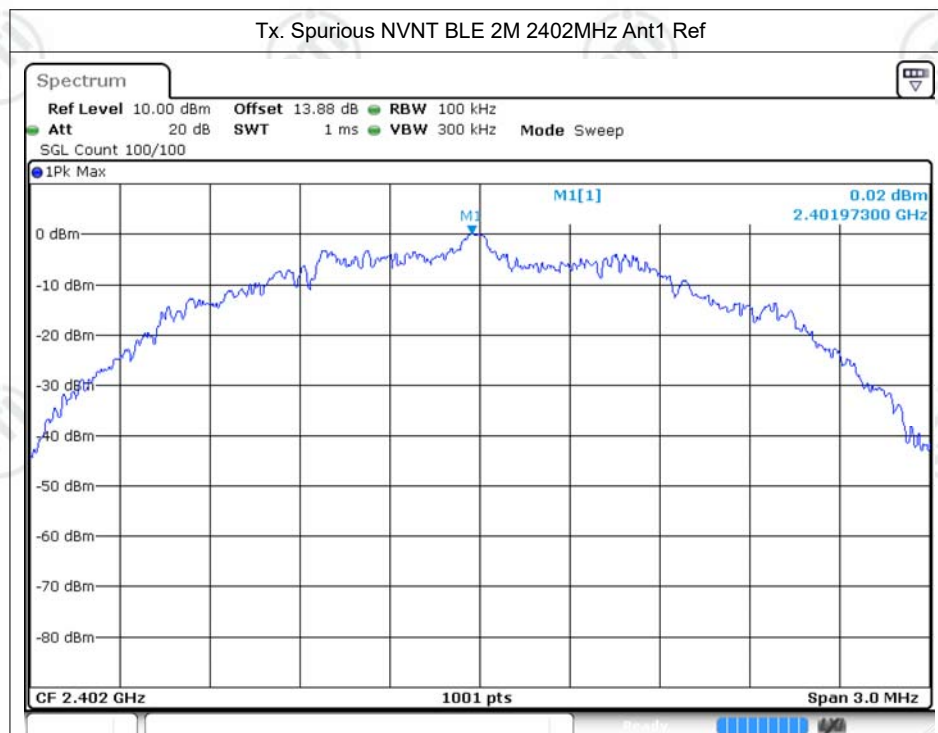
Date: 17.NOV.2022 15:15:11



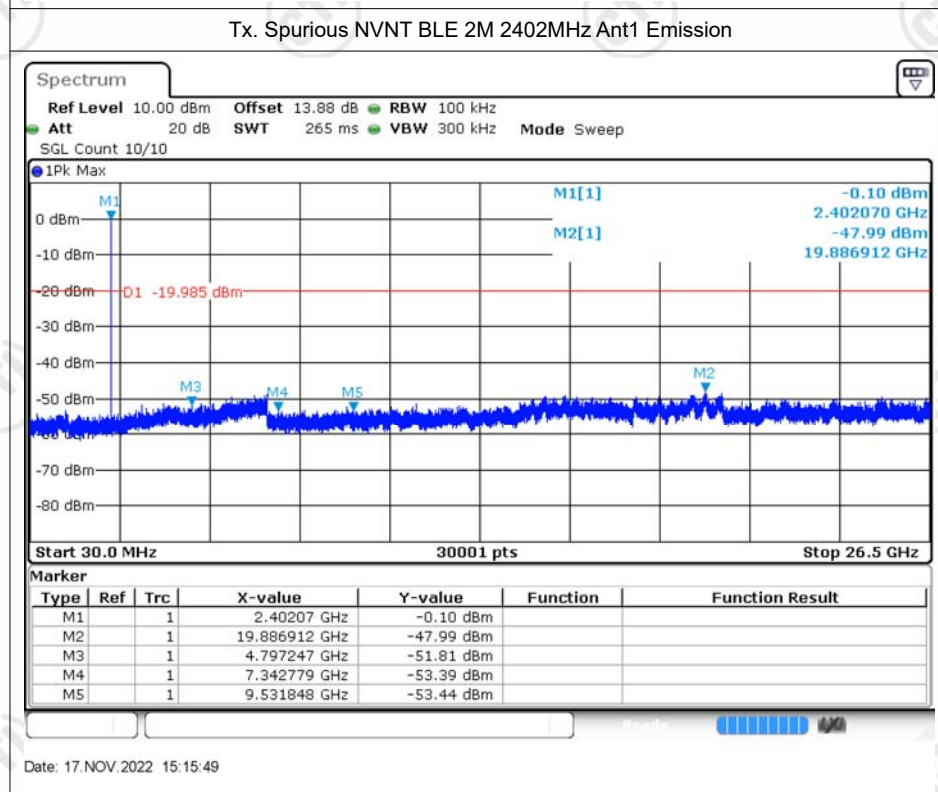
Date: 17.NOV.2022 15:15:19



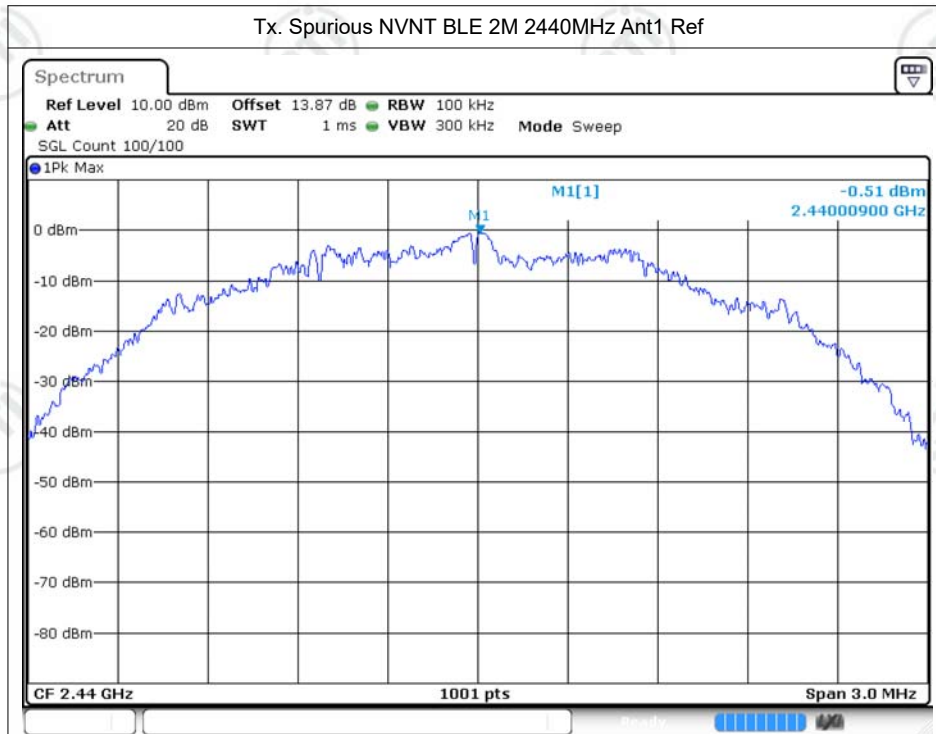
Date: 17.NOV.2022 15:15:30



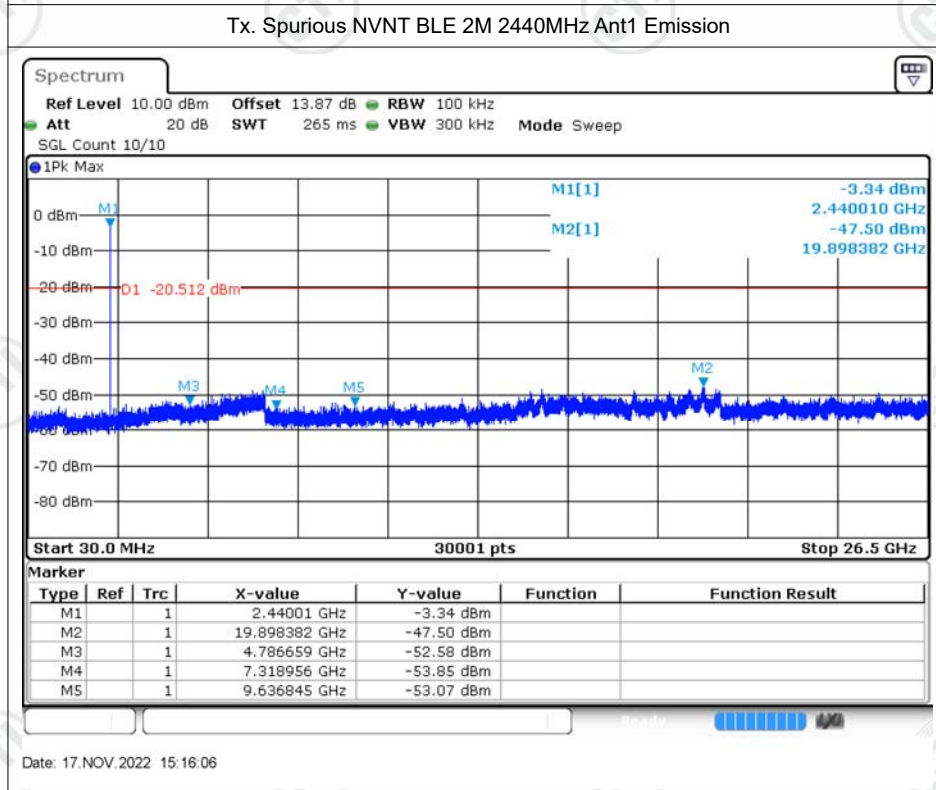
Date: 17.NOV.2022 15:15:38



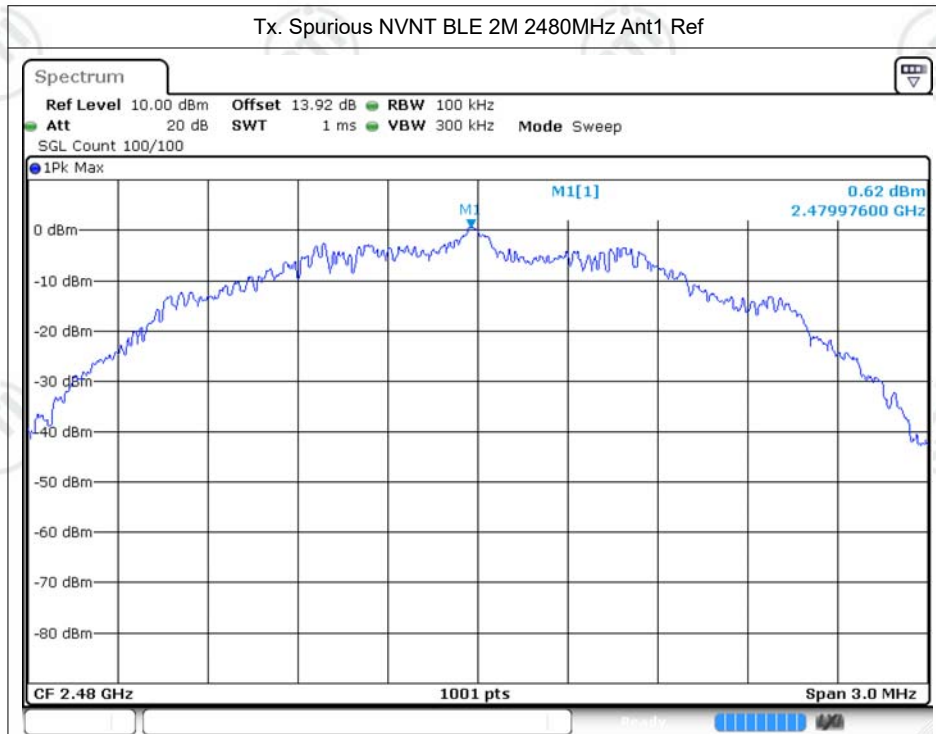
Date: 17.NOV.2022 15:15:49



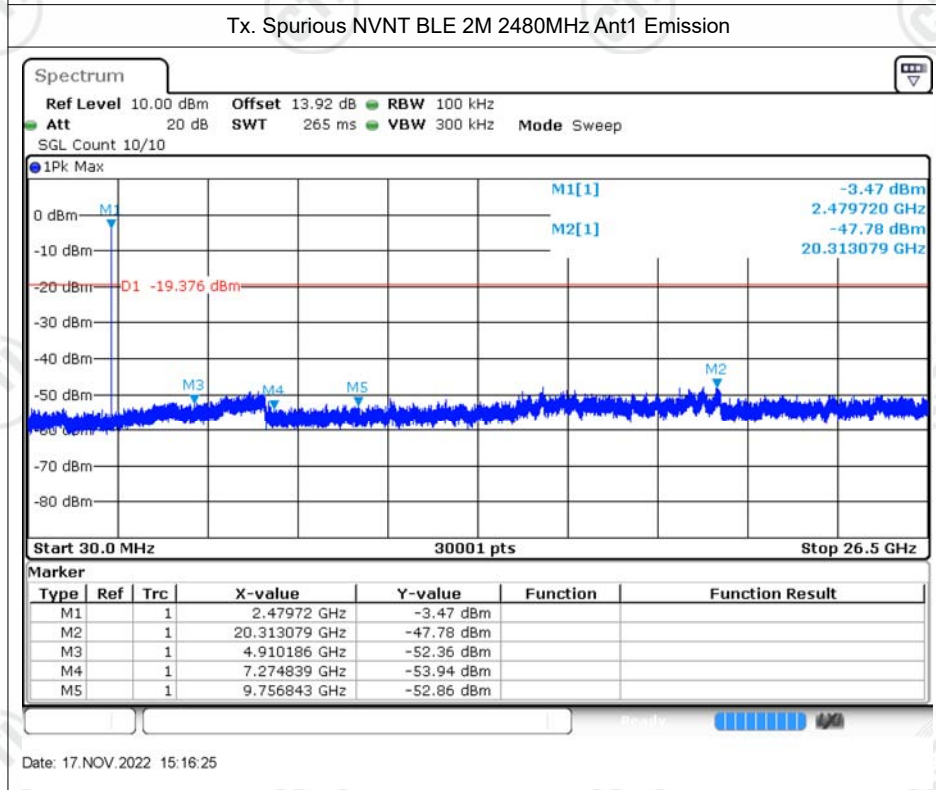
Date: 17.NOV.2022 15:15:56



Date: 17.NOV.2022 15:16:06



Date: 17.NOV.2022 15:16:14



Date: 17.NOV.2022 15:16:25

*** End of Report ***