

Appendix: 2.4G WIFI

Contents

Contents2

Duty Cycle3

Maximum Peak Conducted Output Power11

-6dB Bandwidth12

Occupied Channel Bandwidth19

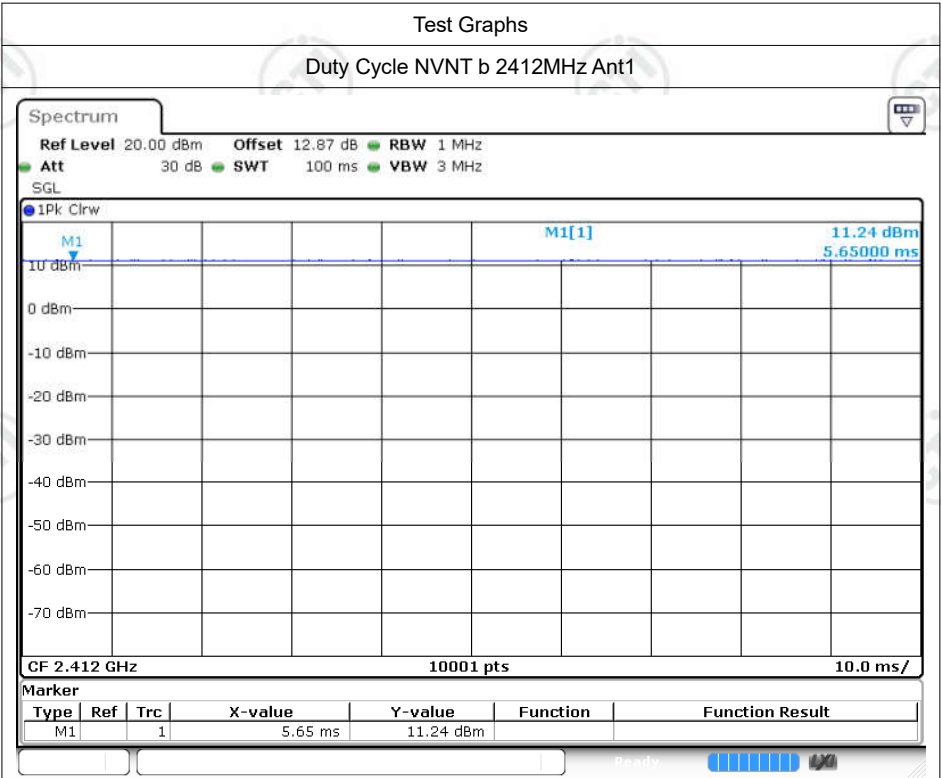
Maximum Power Spectral Density Level27

Band Edge34

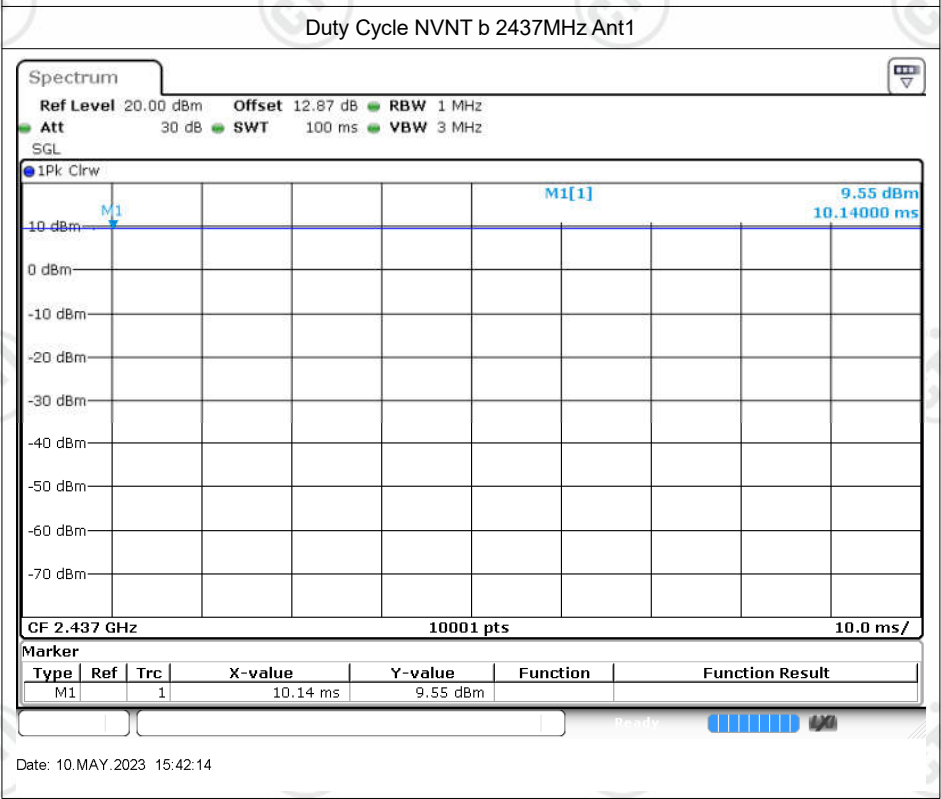
Conducted RF Spurious Emission43

Duty Cycle

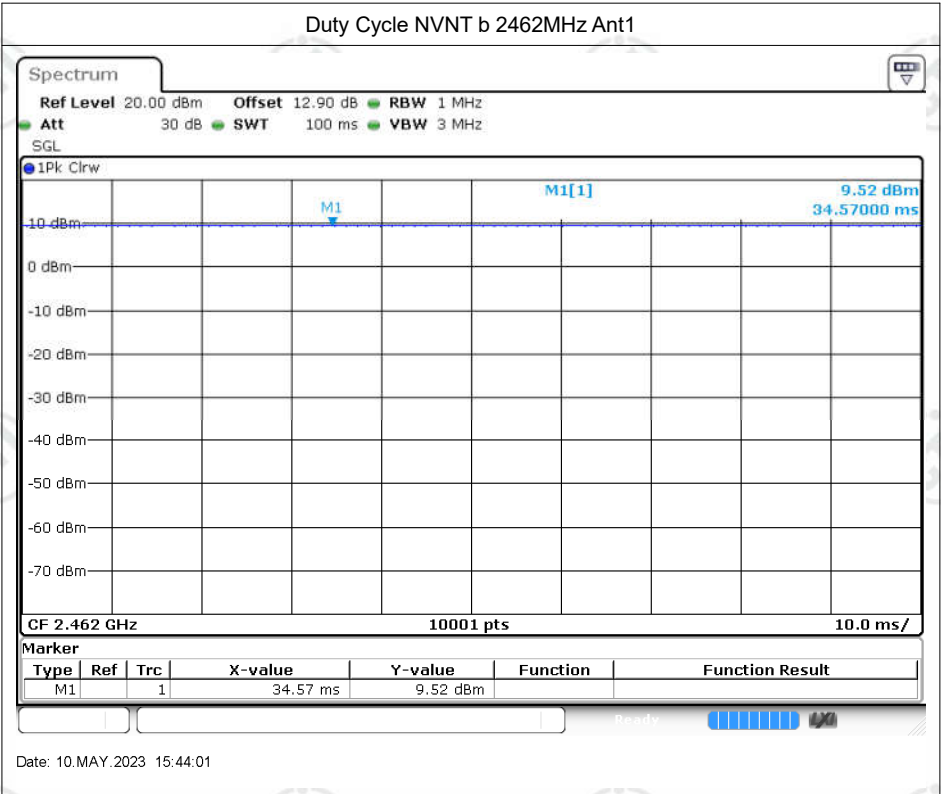
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n20	2412	Ant1	100	0	0
NVNT	n20	2437	Ant1	100	0	0
NVNT	n20	2462	Ant1	100	0	0
NVNT	n40	2422	Ant1	100	0	0
NVNT	n40	2437	Ant1	100	0	0
NVNT	n40	2452	Ant1	100	0	0

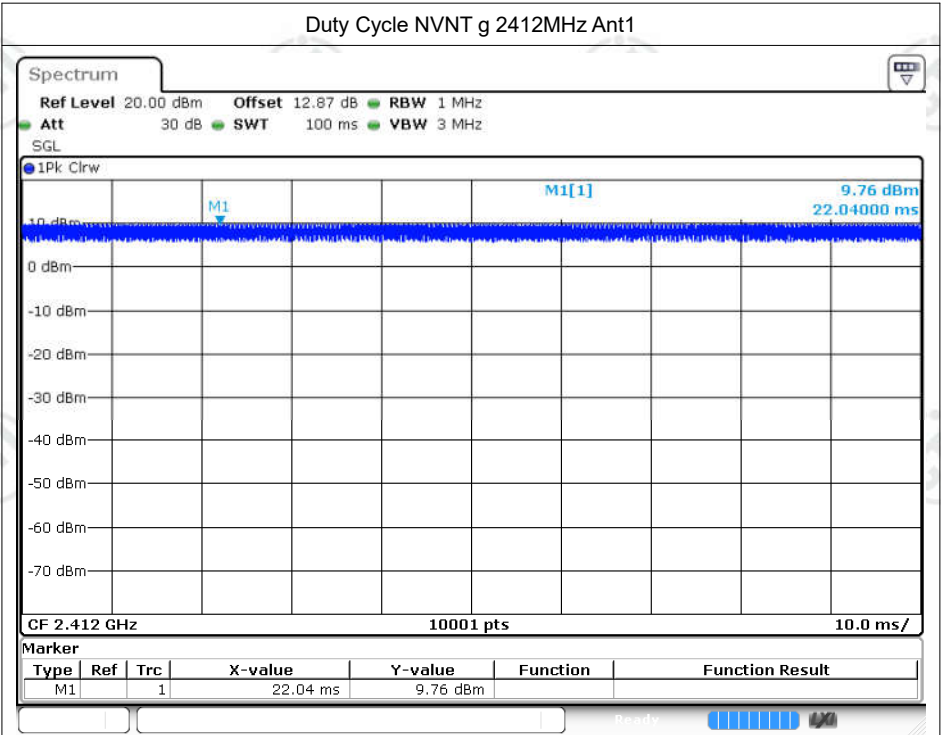


Date: 10.MAY.2023 15:38:25

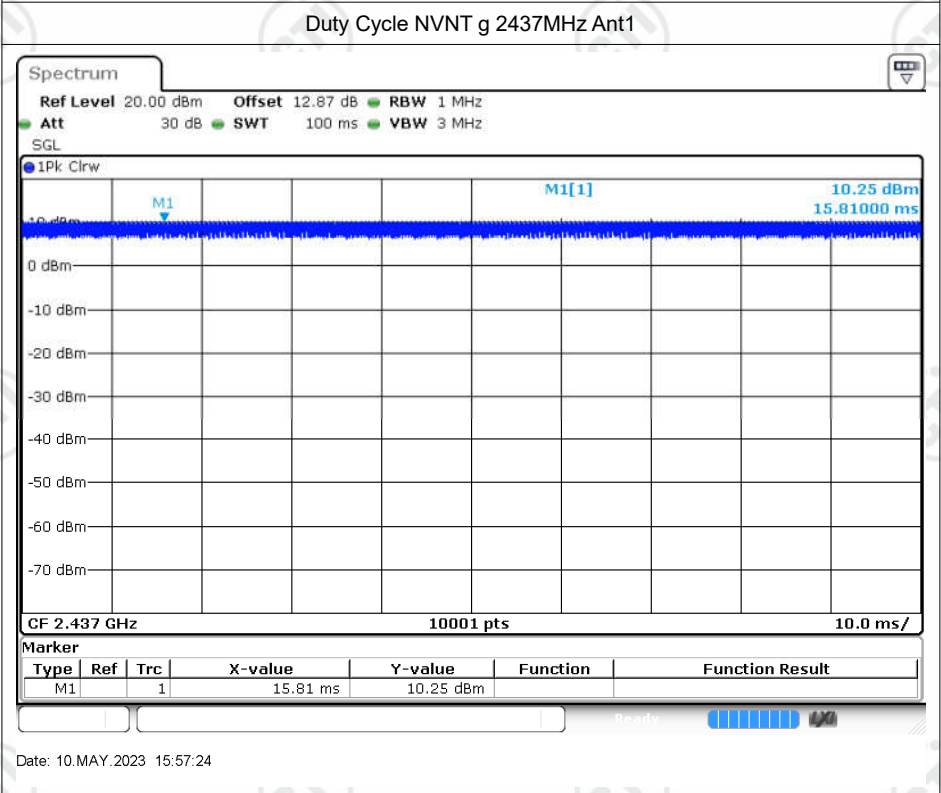


Date: 10.MAY.2023 15:42:14

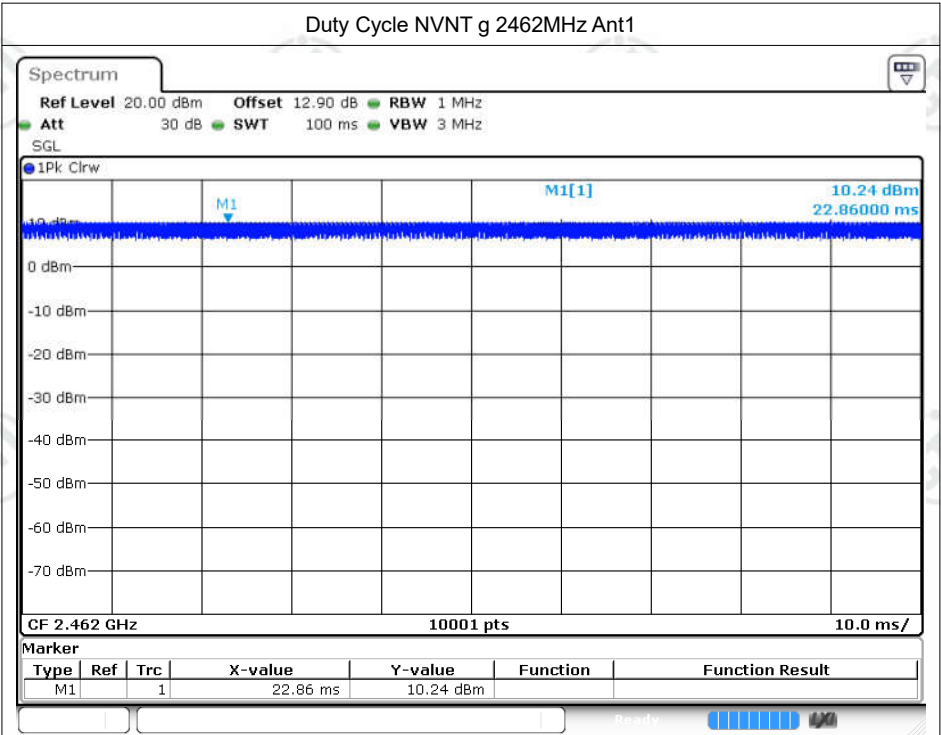




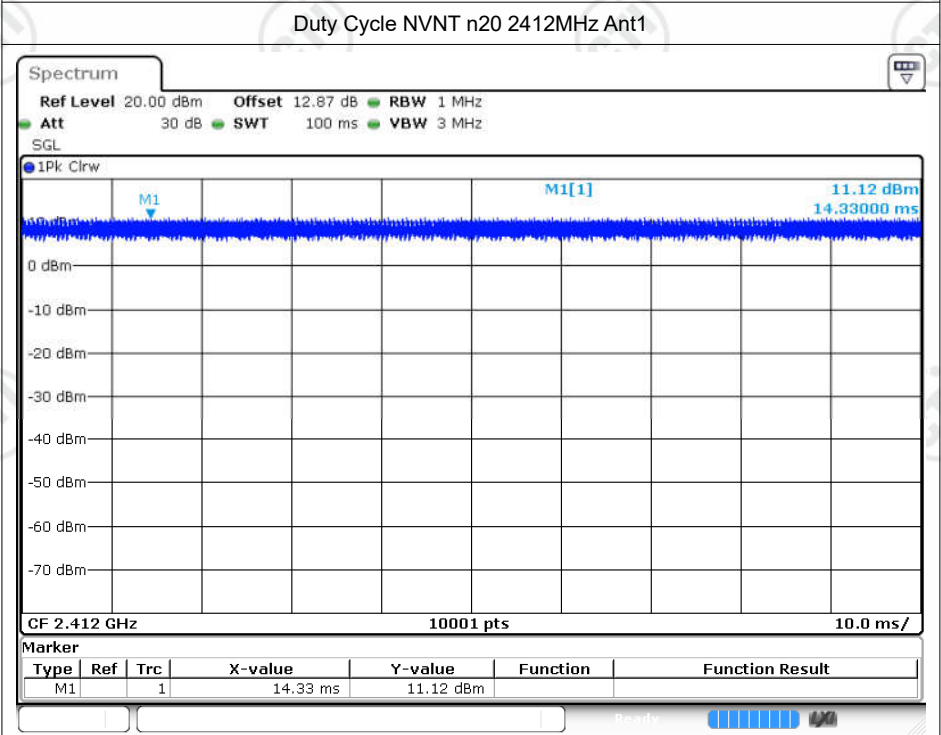
Date: 10.MAY.2023 15:53:55



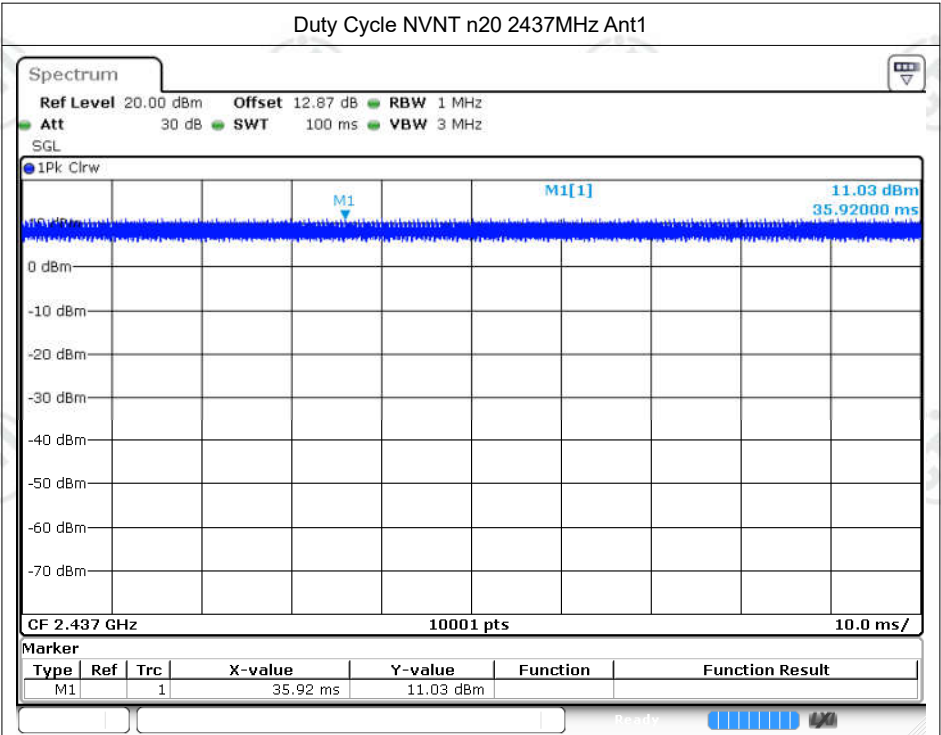
Date: 10.MAY.2023 15:57:24



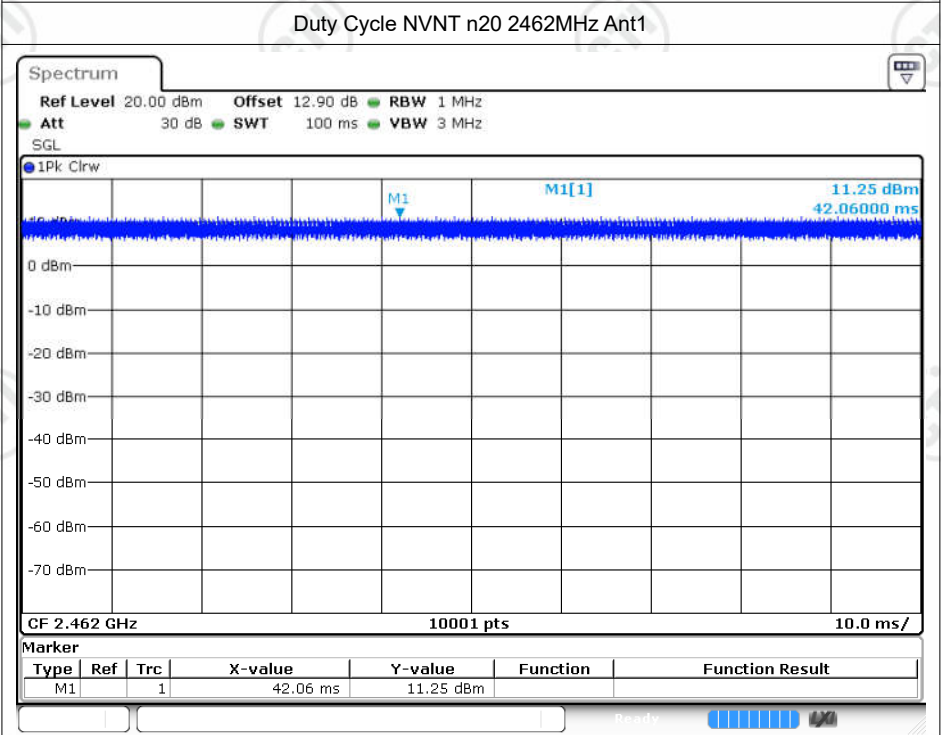
Date: 10.MAY.2023 15:59:37



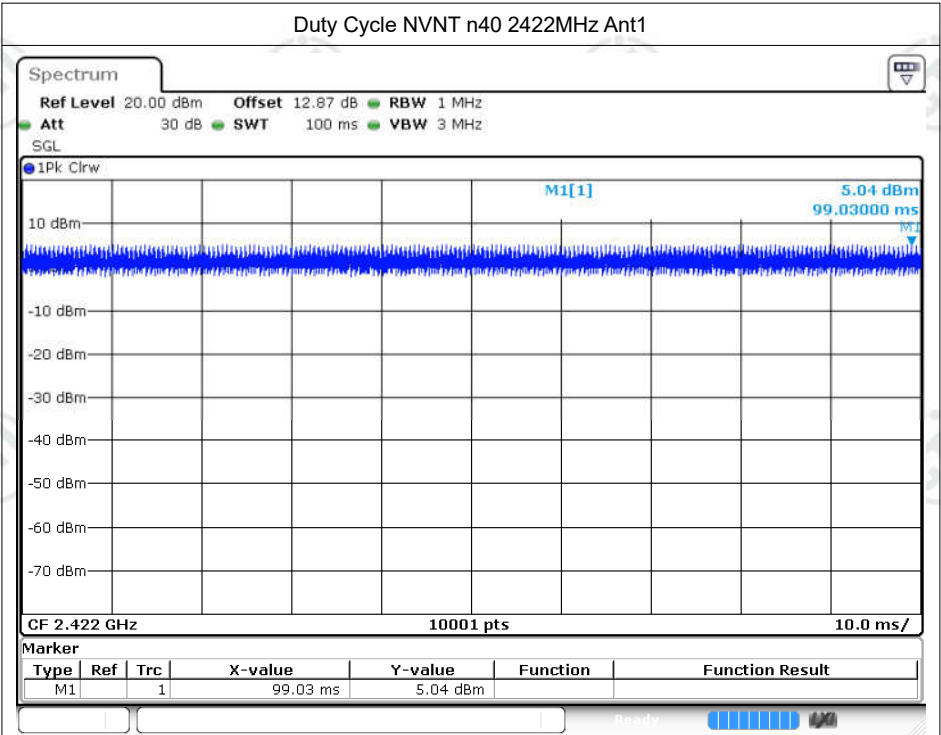
Date: 10.MAY.2023 16:02:12



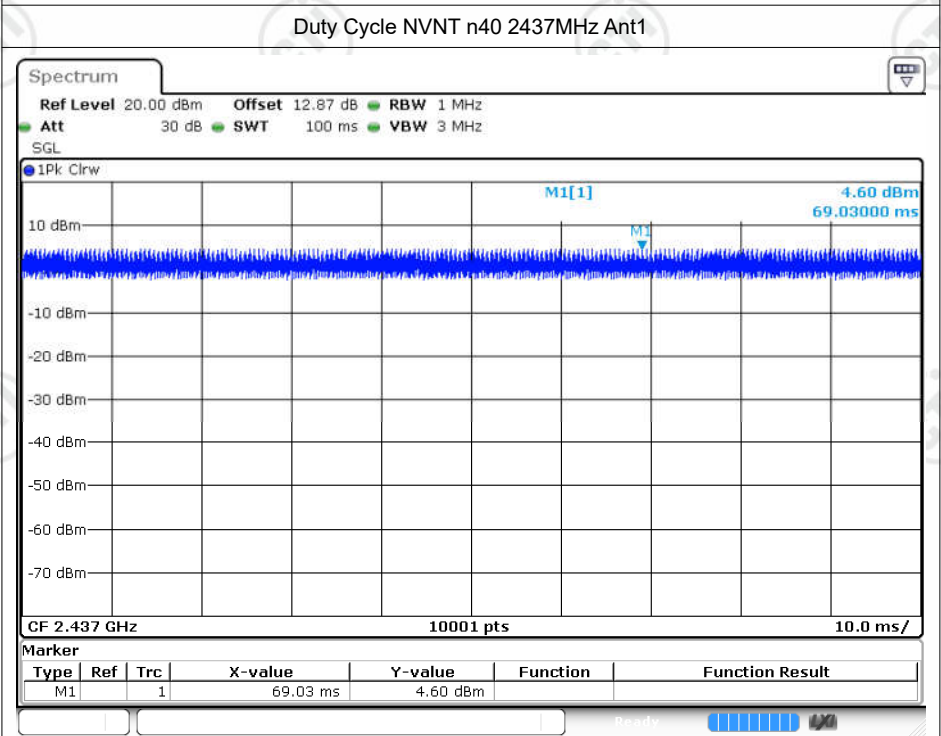
Date: 10.MAY.2023 16:04:28



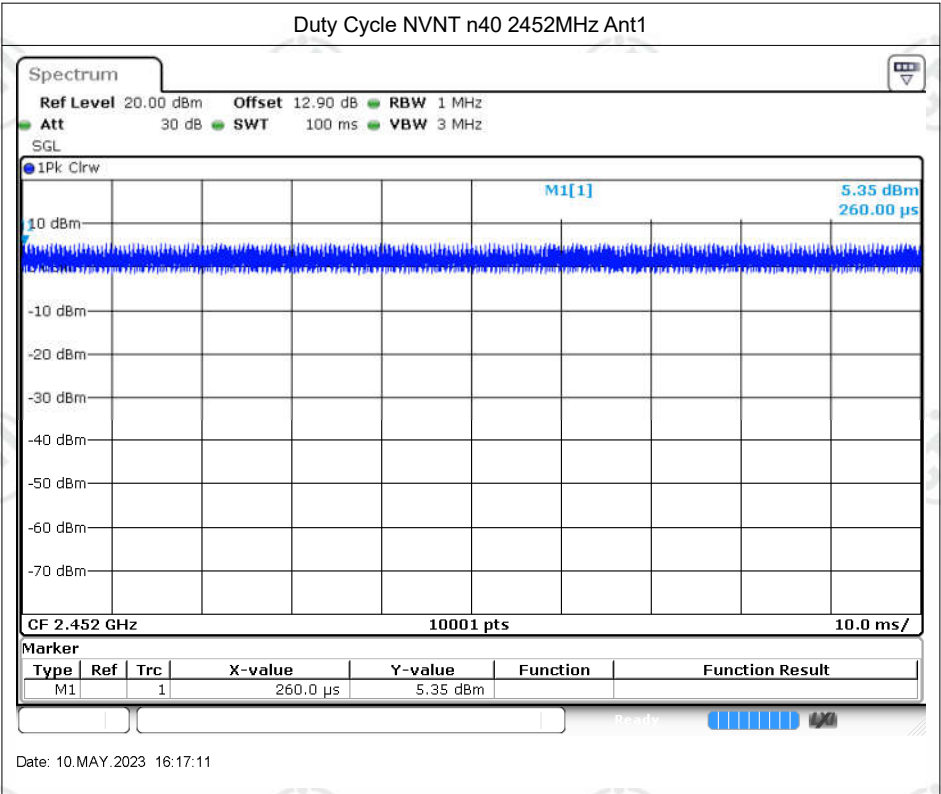
Date: 10.MAY.2023 16:08:49



Date: 10.MAY.2023 16:11:16



Date: 10.MAY.2023 16:14:28

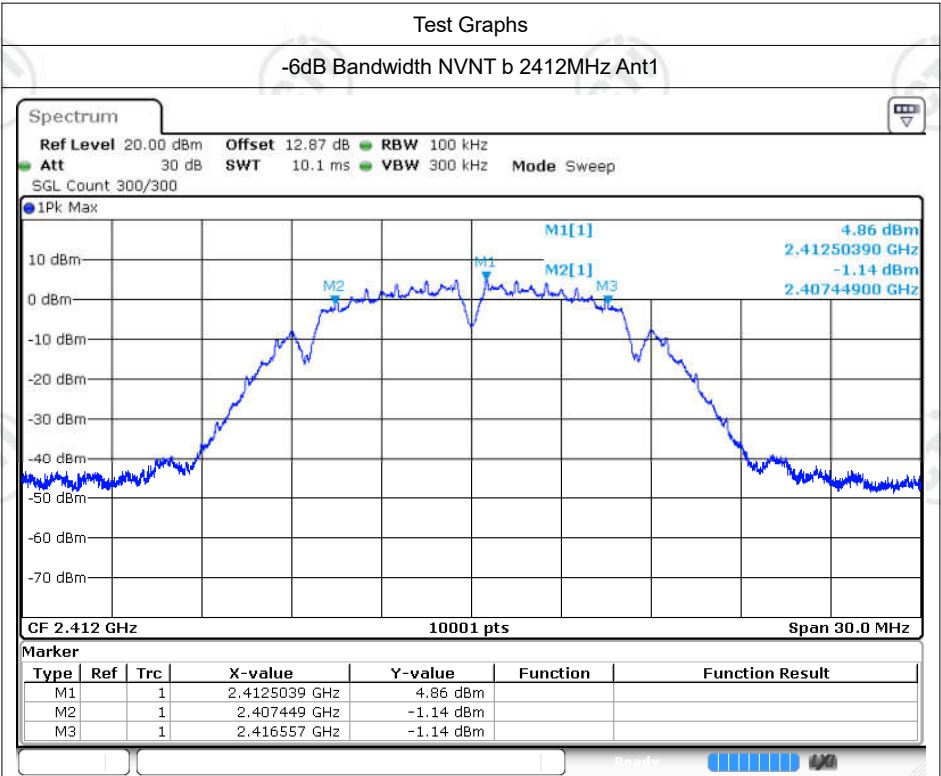


Maximum Peak Conducted Output Power

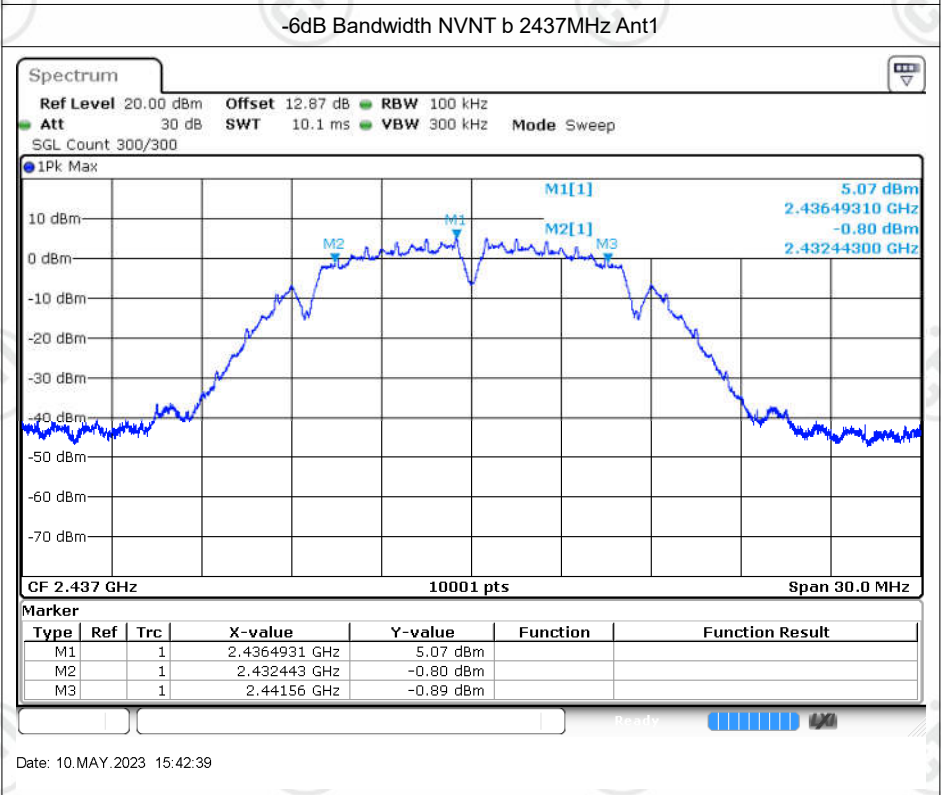
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.05	30	Pass
NVNT	b	2437	Ant1	15.34	30	Pass
NVNT	b	2462	Ant1	15.01	30	Pass
NVNT	g	2412	Ant1	14.29	30	Pass
NVNT	g	2437	Ant1	14.76	30	Pass
NVNT	g	2462	Ant1	14.52	30	Pass
NVNT	n20	2412	Ant1	14.66	30	Pass
NVNT	n20	2437	Ant1	14.77	30	Pass
NVNT	n20	2462	Ant1	14.5	30	Pass
NVNT	n40	2422	Ant1	14.67	30	Pass
NVNT	n40	2437	Ant1	14.69	30	Pass
NVNT	n40	2452	Ant1	14.61	30	Pass

-6dB Bandwidth

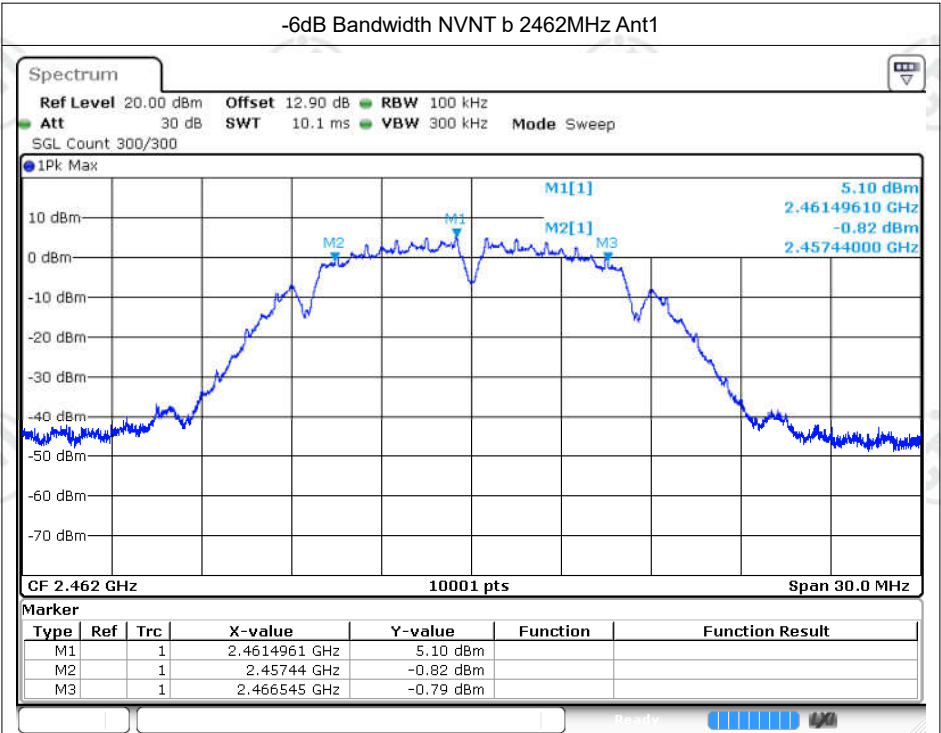
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.108	0.5	Pass
NVNT	b	2437	Ant1	9.117	0.5	Pass
NVNT	b	2462	Ant1	9.105	0.5	Pass
NVNT	g	2412	Ant1	16.332	0.5	Pass
NVNT	g	2437	Ant1	16.371	0.5	Pass
NVNT	g	2462	Ant1	16.335	0.5	Pass
NVNT	n20	2412	Ant1	17.553	0.5	Pass
NVNT	n20	2437	Ant1	17.592	0.5	Pass
NVNT	n20	2462	Ant1	17.31	0.5	Pass
NVNT	n40	2422	Ant1	36.276	0.5	Pass
NVNT	n40	2437	Ant1	36.324	0.5	Pass
NVNT	n40	2452	Ant1	36.06	0.5	Pass



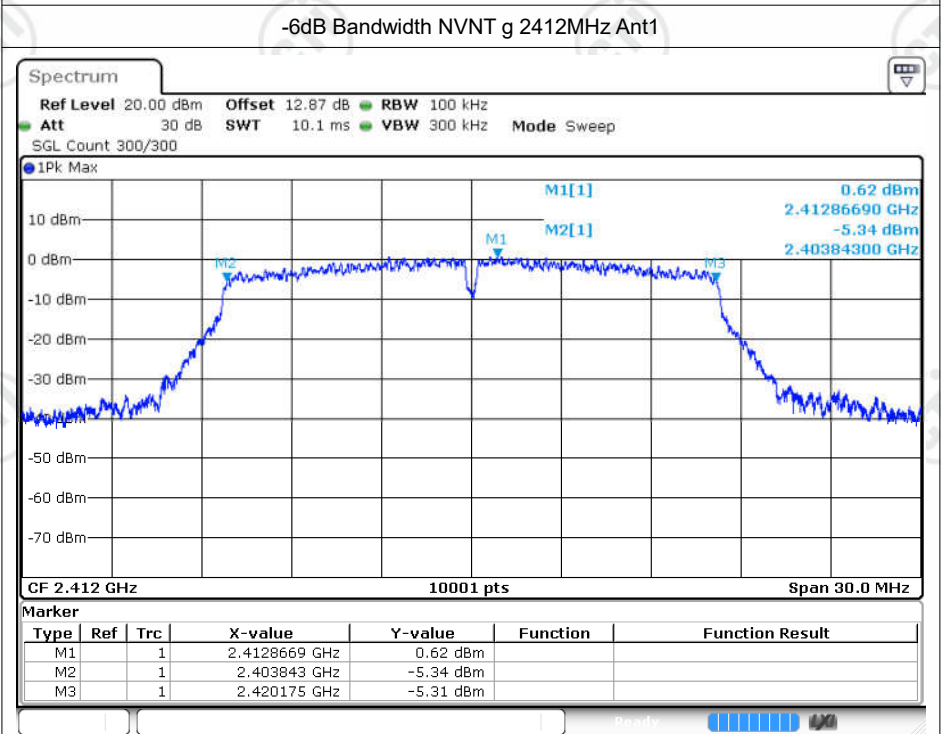
Date: 10.MAY.2023 15:40:52



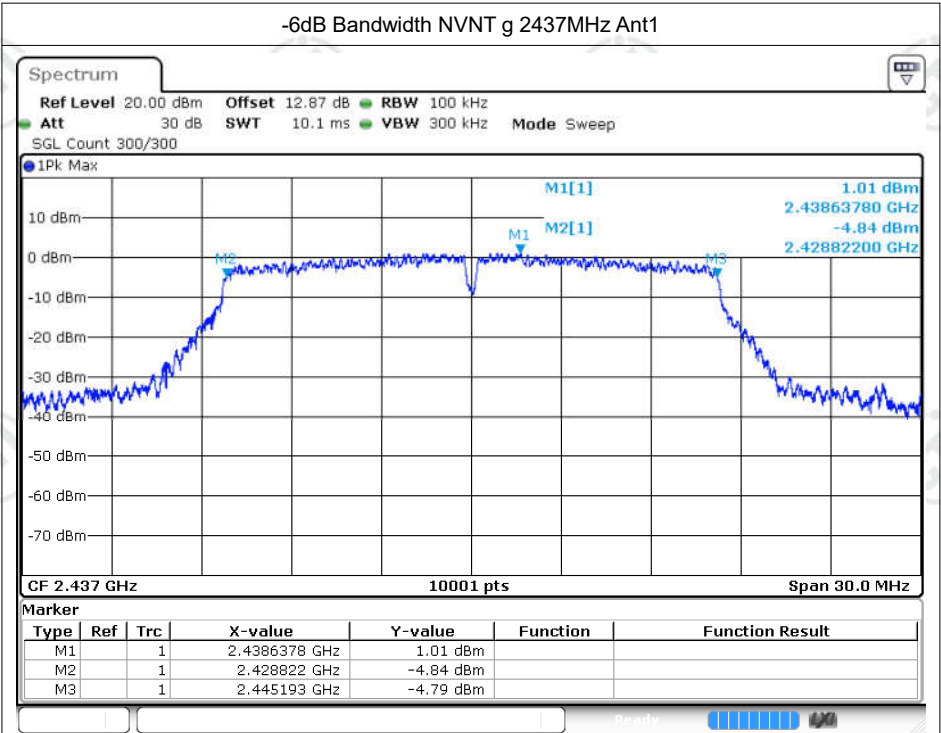
Date: 10.MAY.2023 15:42:39



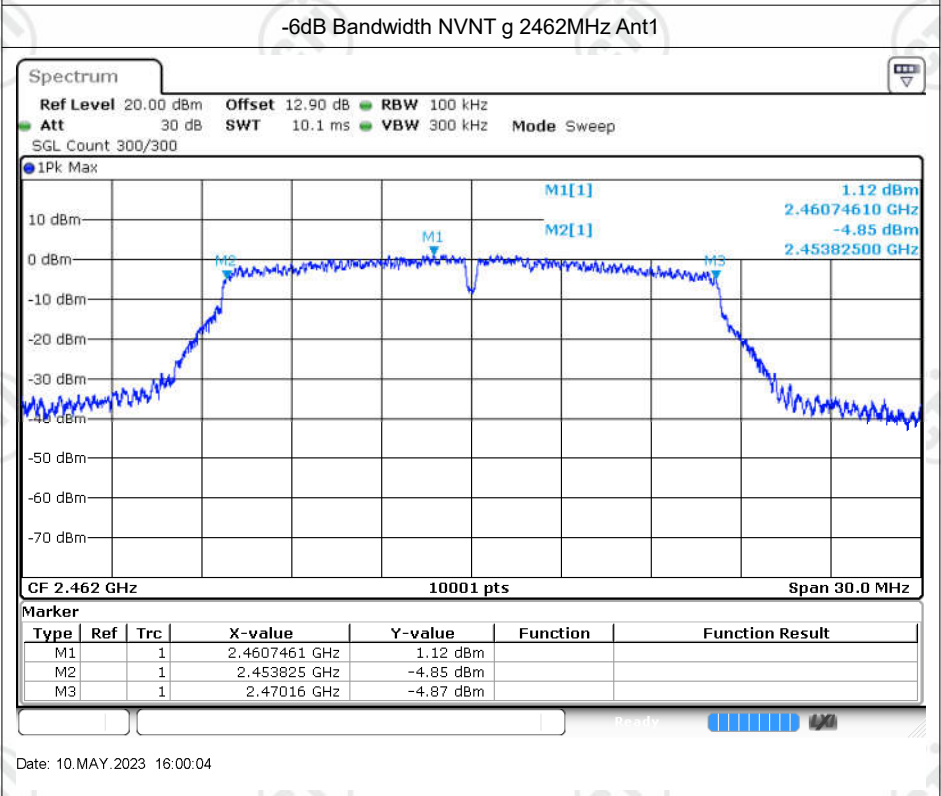
Date: 10.MAY.2023 15:44:28



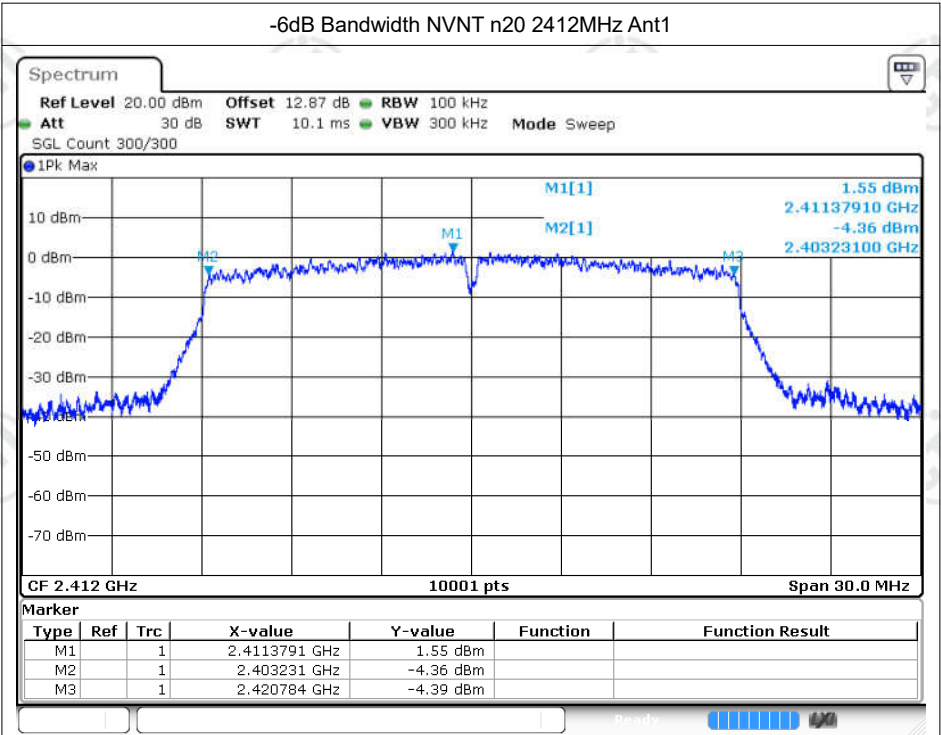
Date: 10.MAY.2023 15:54:19



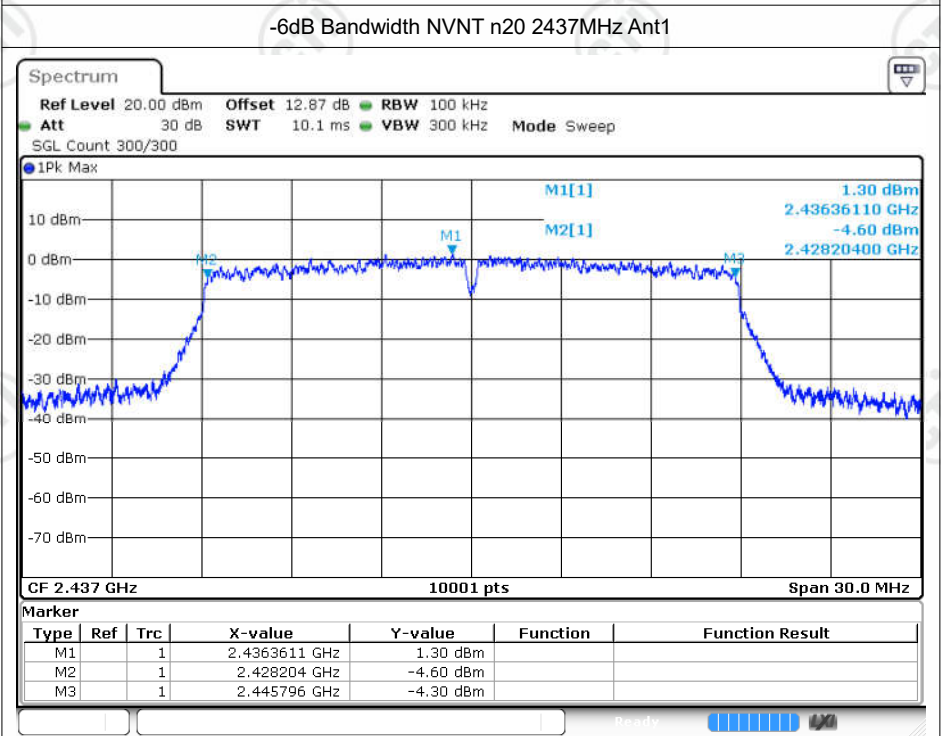
Date: 10.MAY.2023 15:57:49



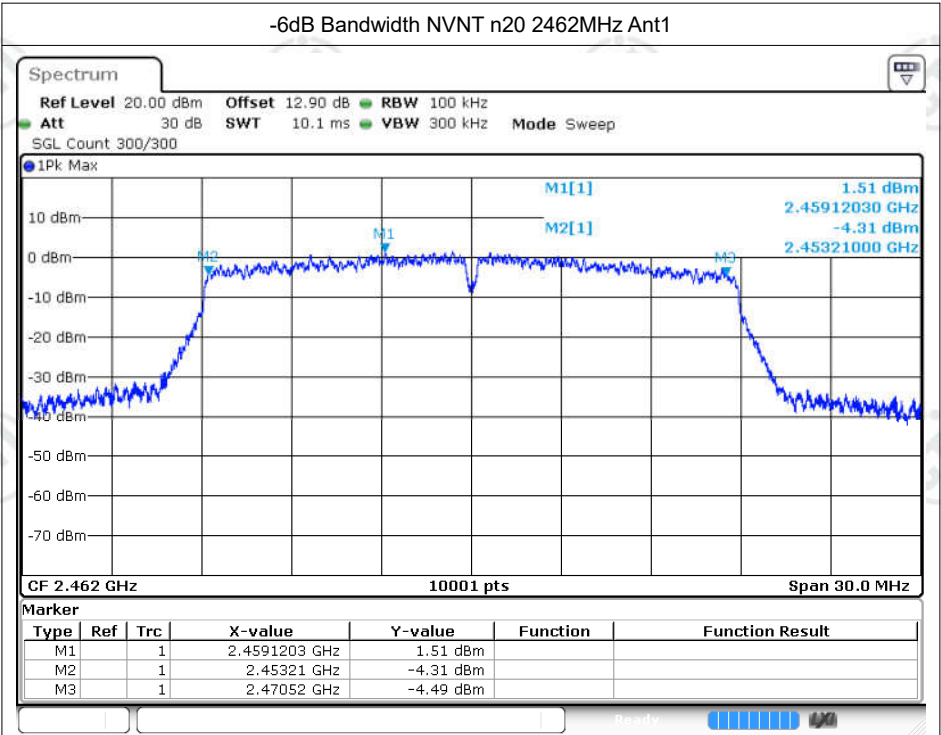
Date: 10.MAY.2023 16:00:04



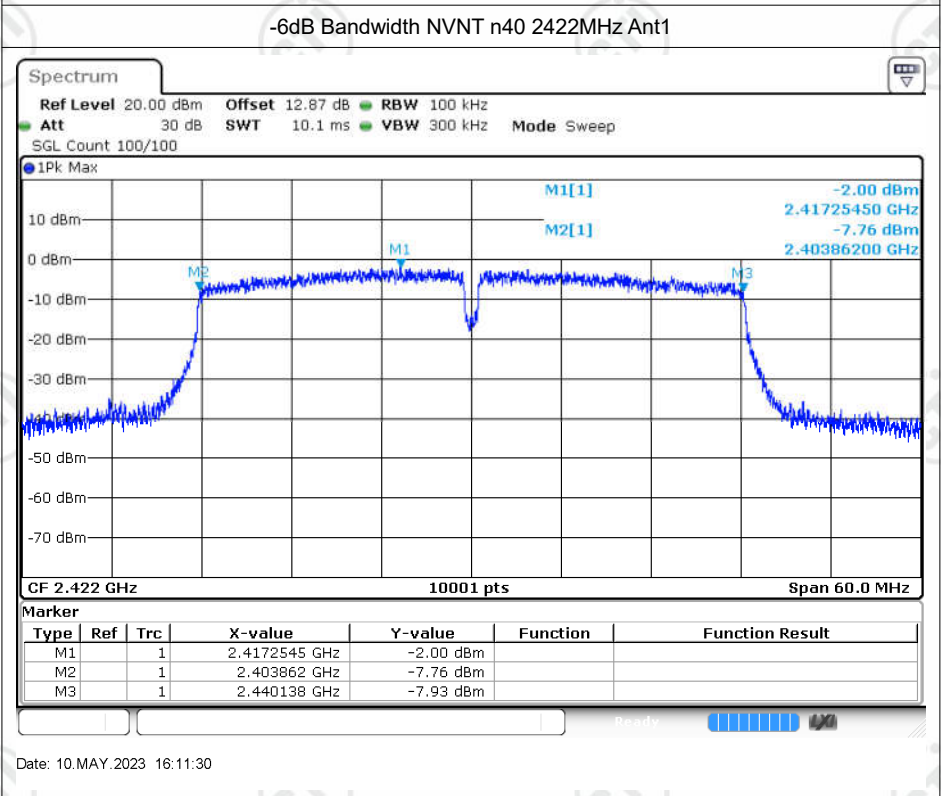
Date: 10.MAY.2023 16:02:36



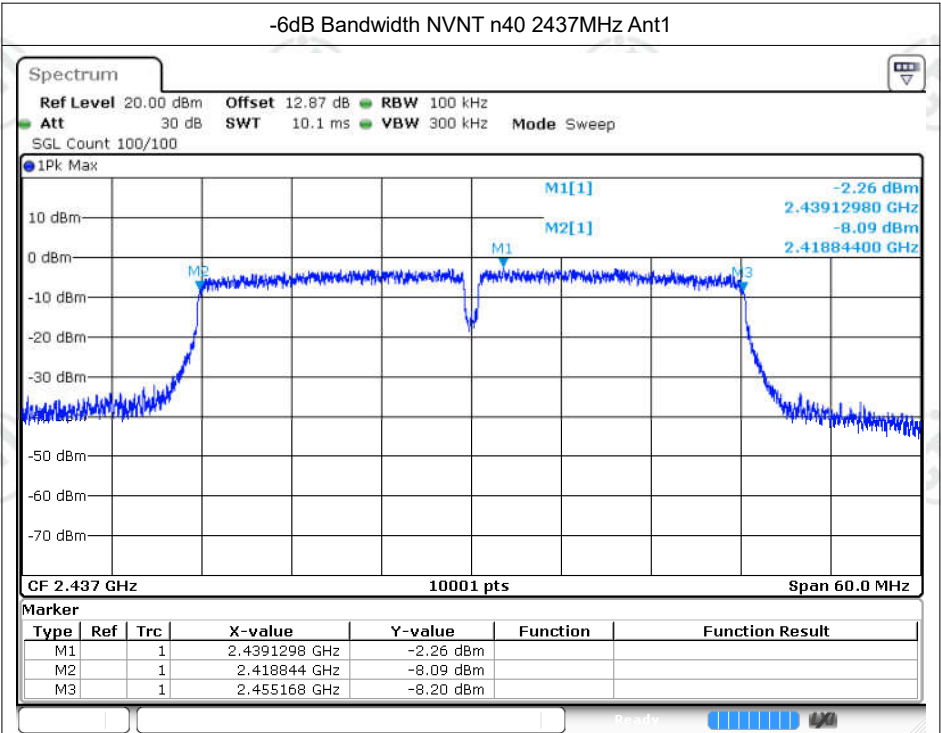
Date: 10.MAY.2023 16:04:53



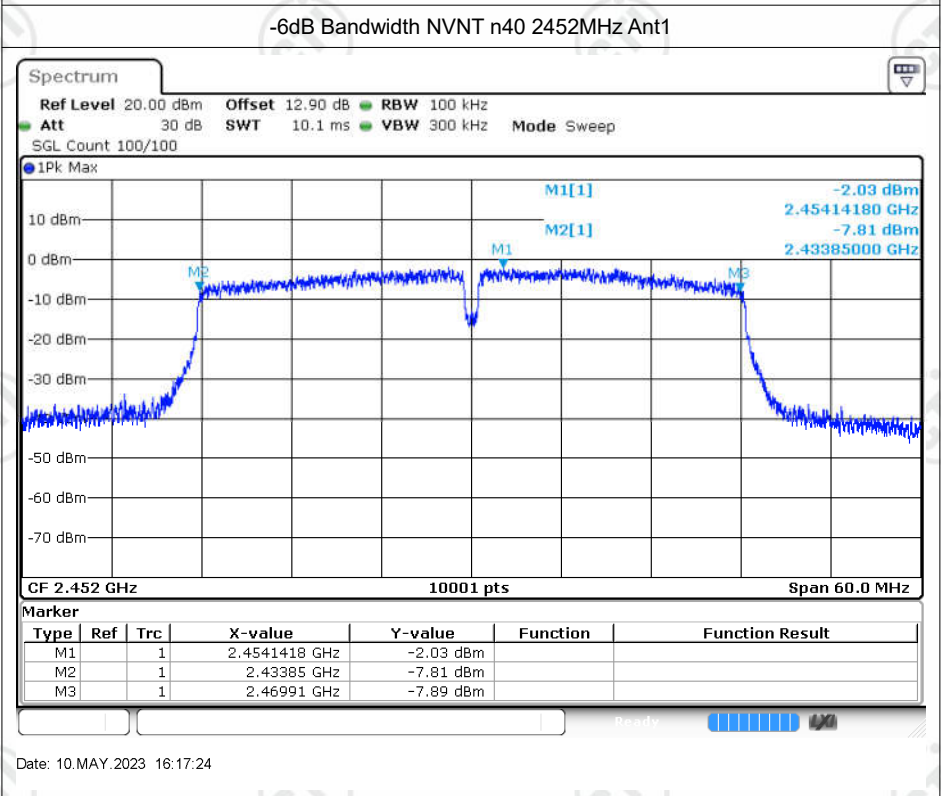
Date: 10.MAY.2023 16:09:16



Date: 10.MAY.2023 16:11:30



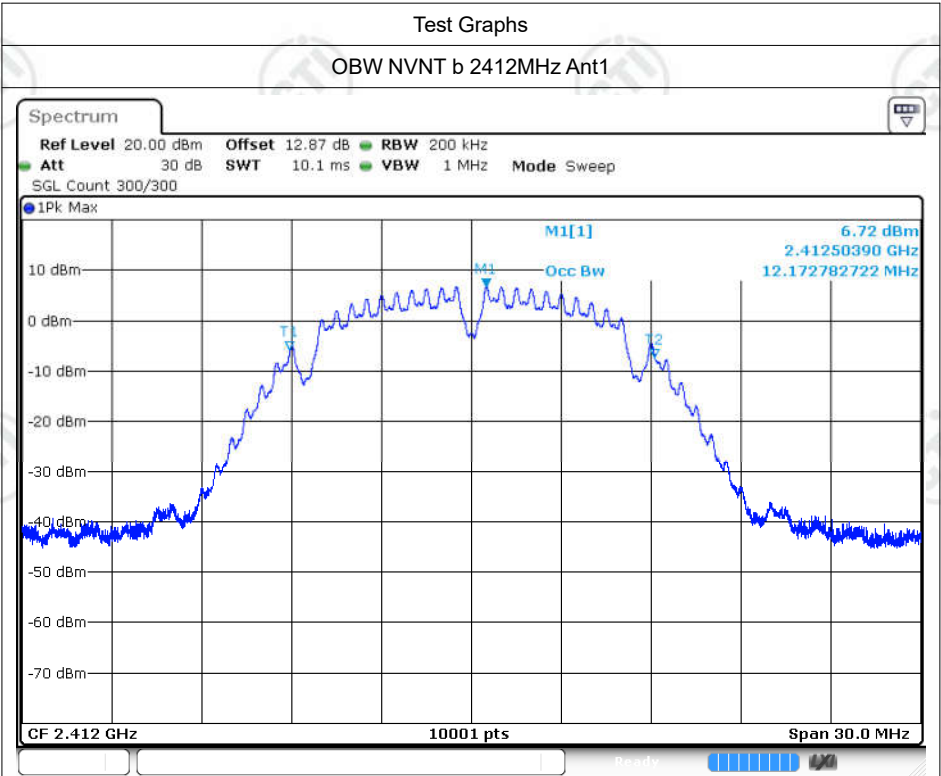
Date: 10.MAY.2023 16:14:42



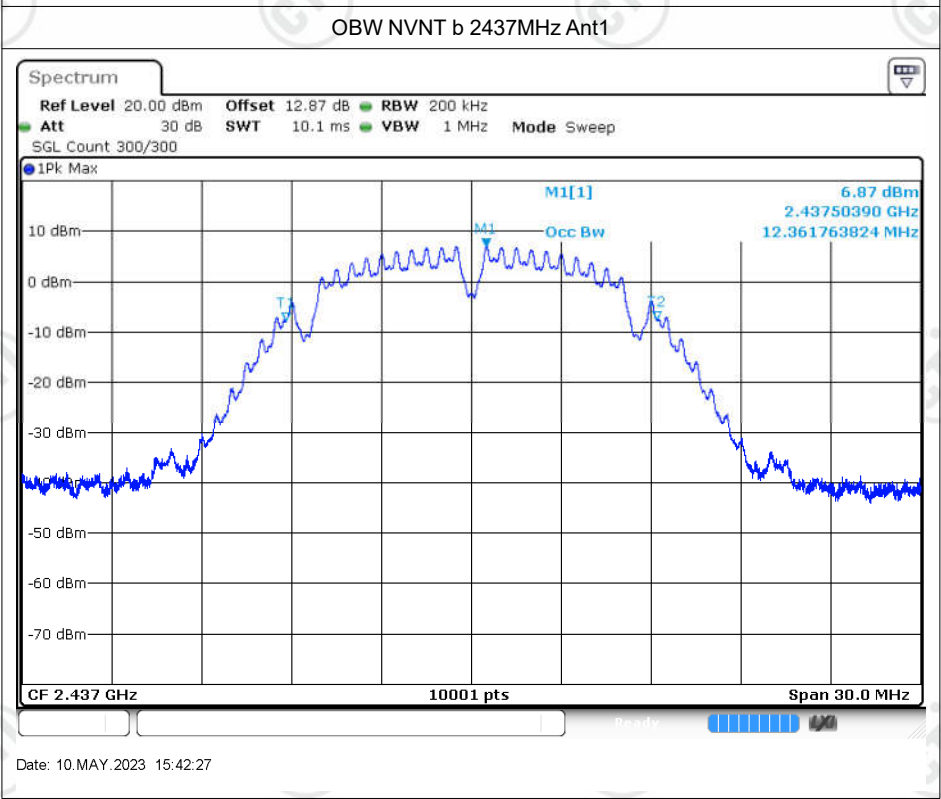
Date: 10.MAY.2023 16:17:24

Occupied Channel Bandwidth

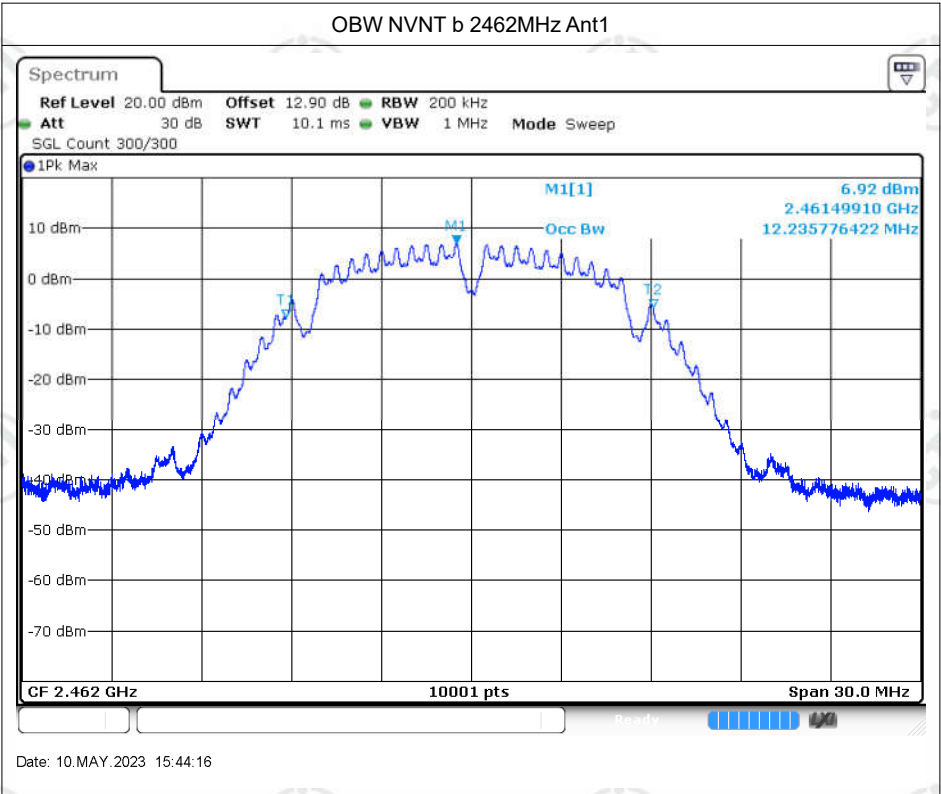
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.173
NVNT	b	2437	Ant1	12.362
NVNT	b	2462	Ant1	12.236
NVNT	g	2412	Ant1	16.441
NVNT	g	2437	Ant1	16.648
NVNT	g	2462	Ant1	16.555
NVNT	n20	2412	Ant1	17.512
NVNT	n20	2437	Ant1	17.59
NVNT	n20	2462	Ant1	17.515
NVNT	n40	2422	Ant1	35.84
NVNT	n40	2437	Ant1	36.068
NVNT	n40	2452	Ant1	35.78

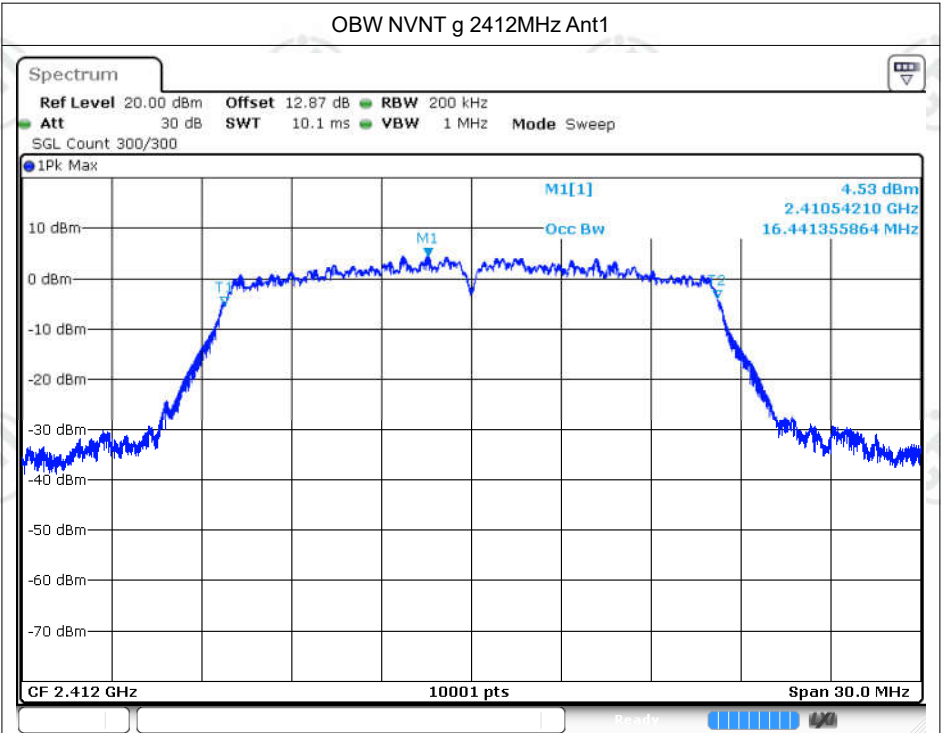


Date: 10.MAY.2023 15:40:41

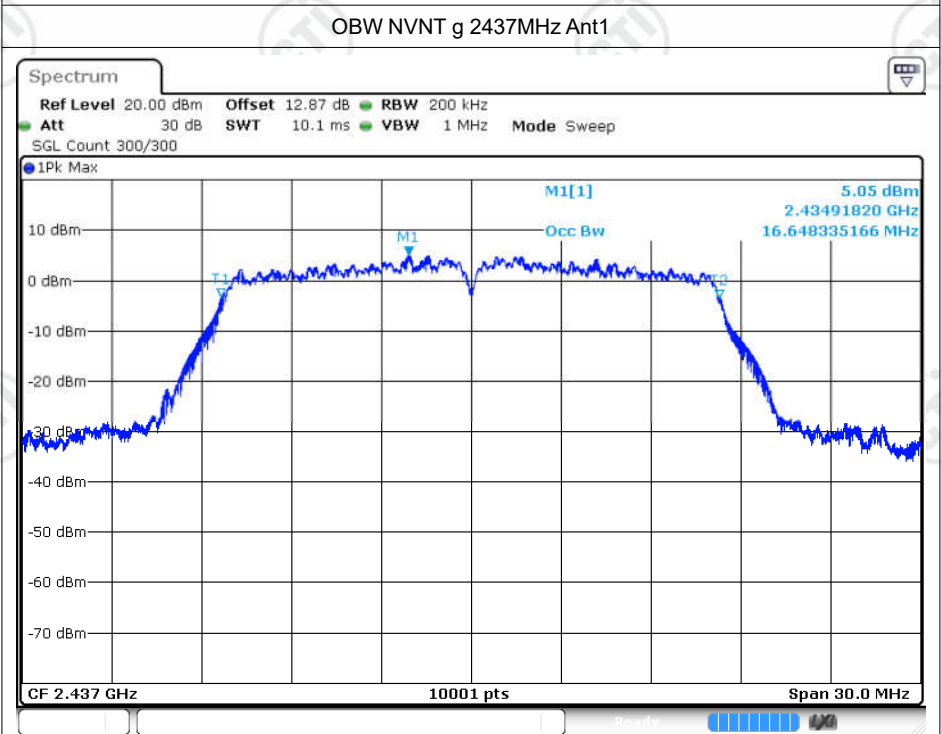


Date: 10.MAY.2023 15:42:27

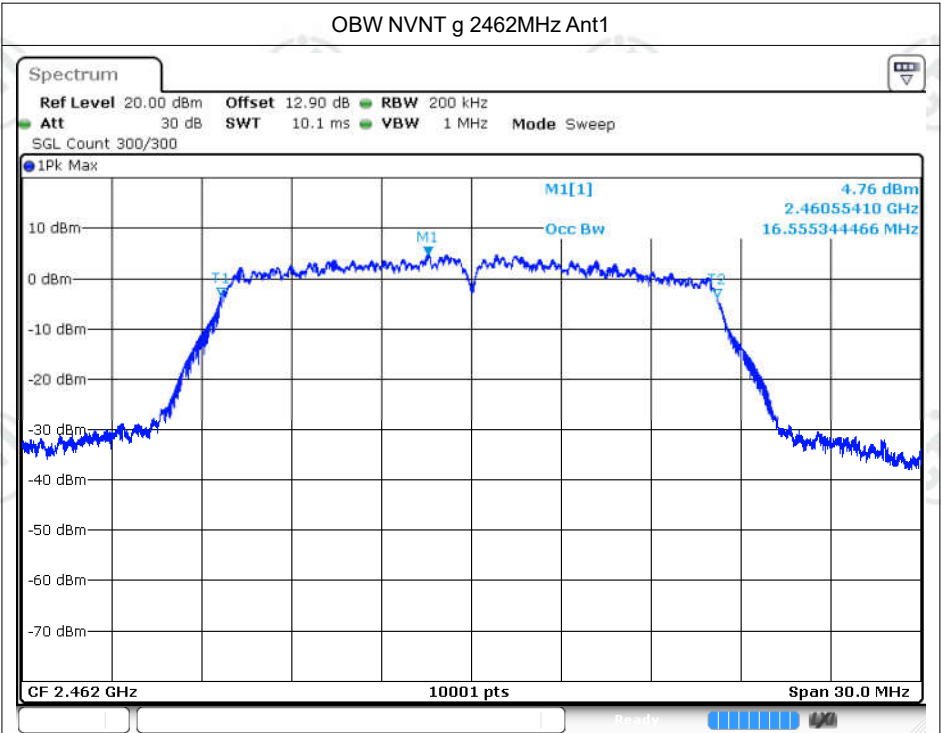




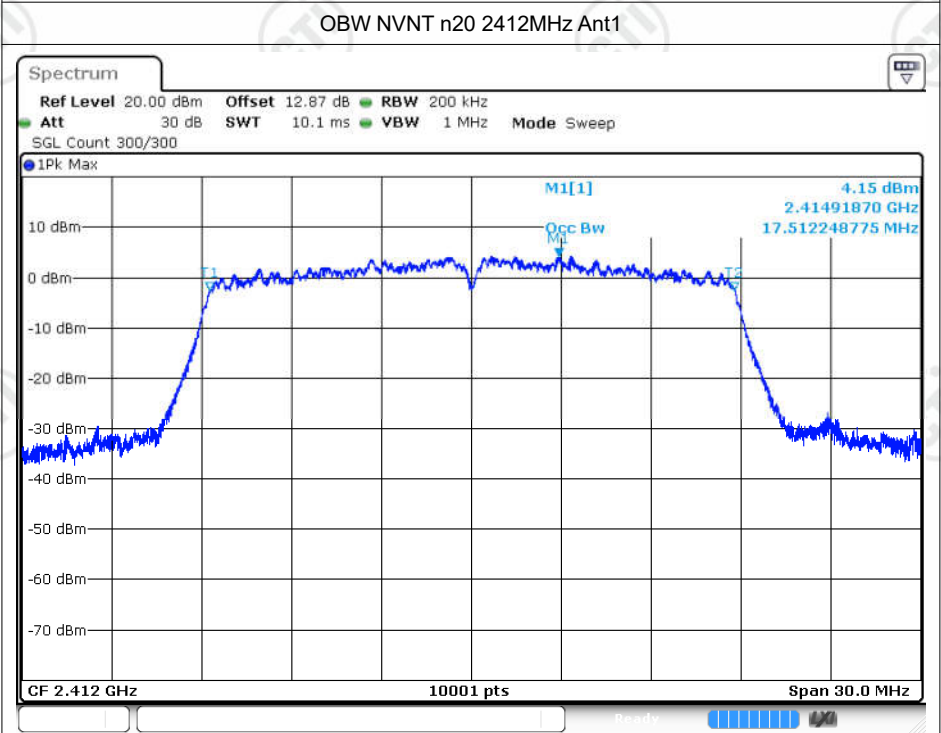
Date: 10.MAY.2023 15:54:08



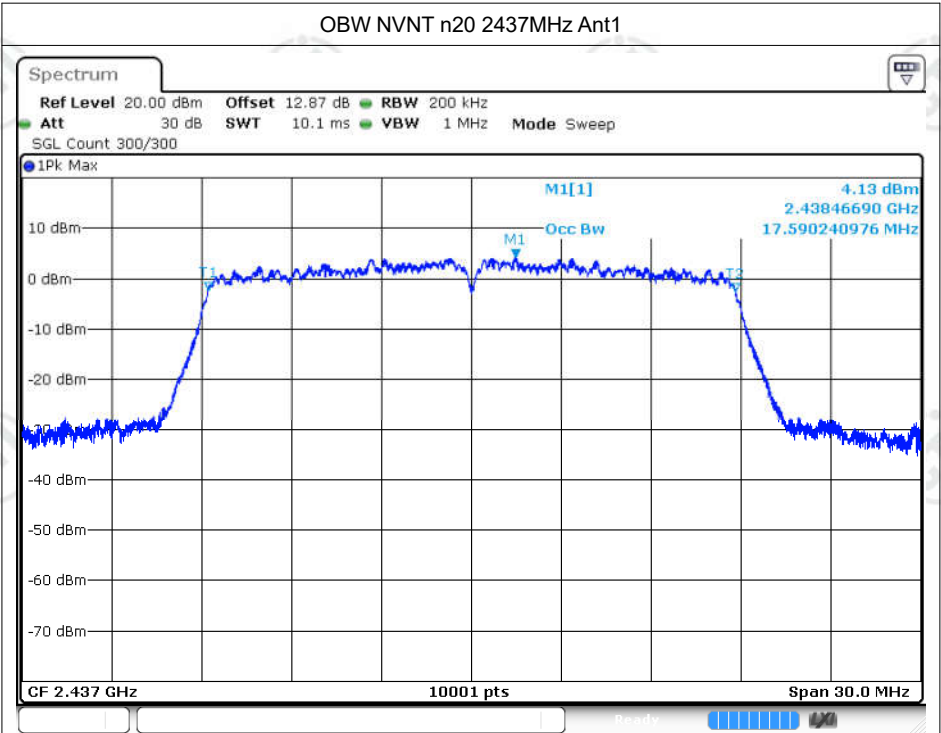
Date: 10.MAY.2023 15:57:38



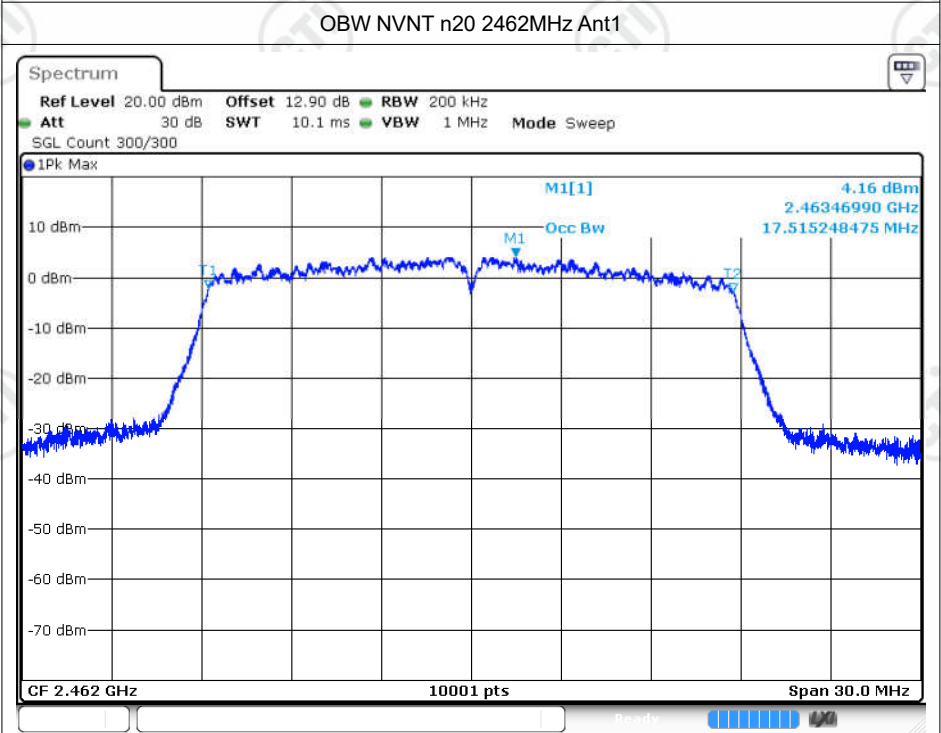
Date: 10.MAY.2023 15:59:52



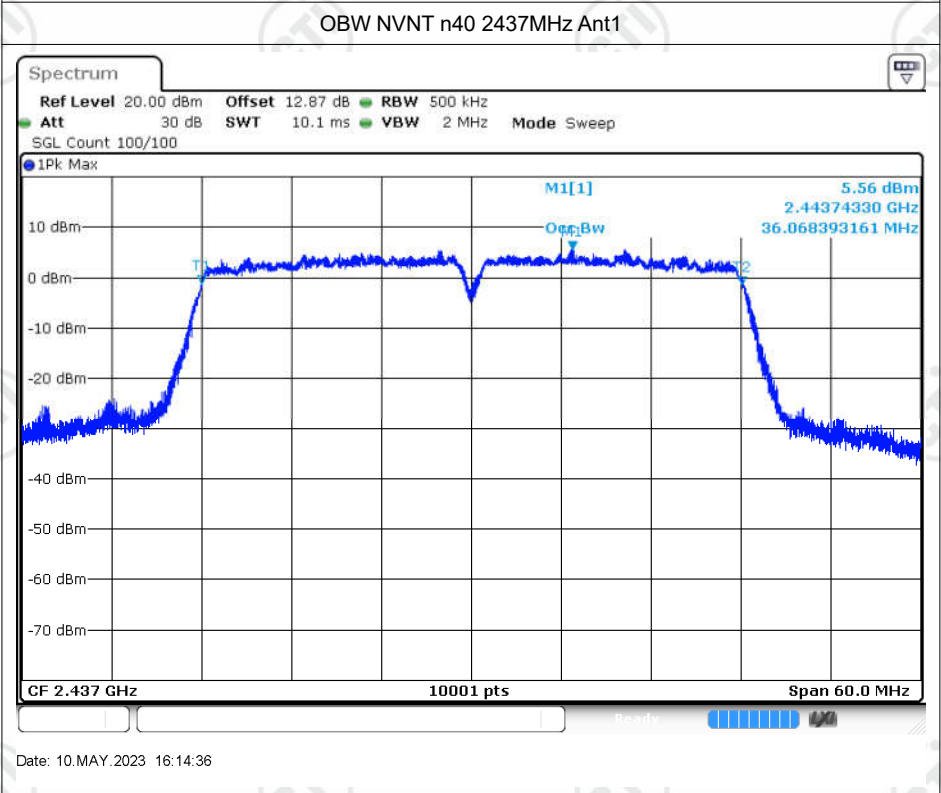
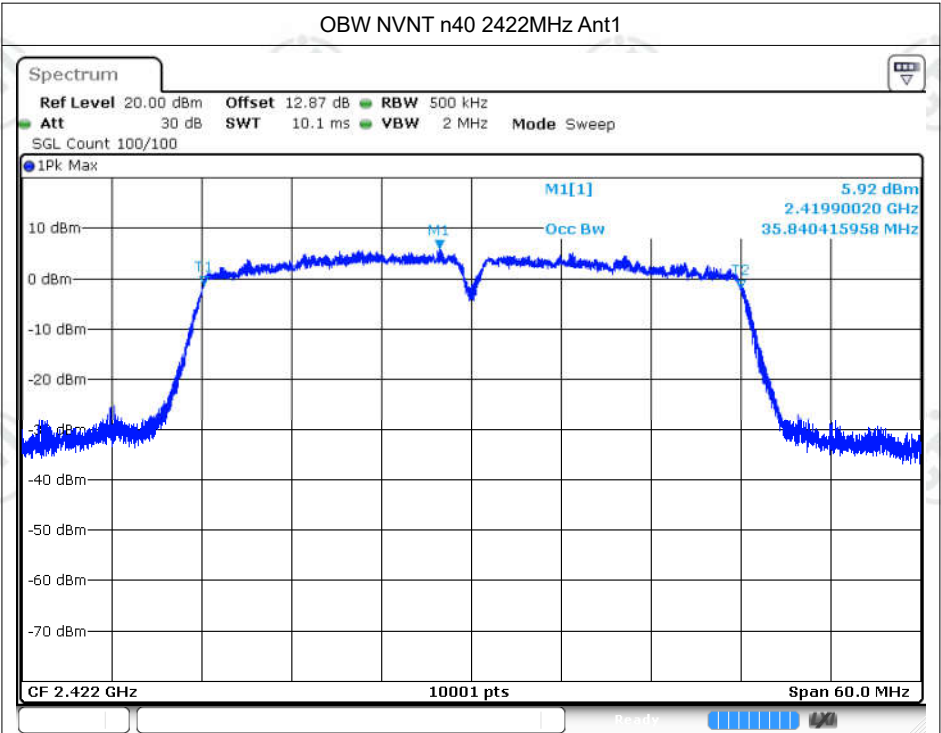
Date: 10.MAY.2023 16:02:25

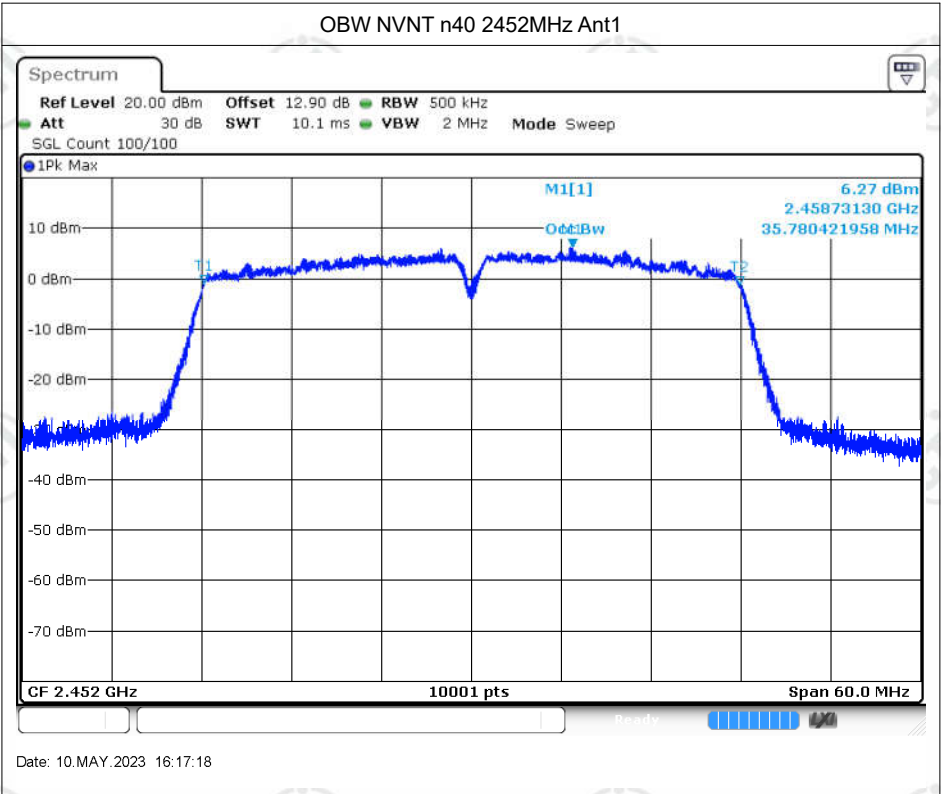


Date: 10.MAY.2023 16:04:42



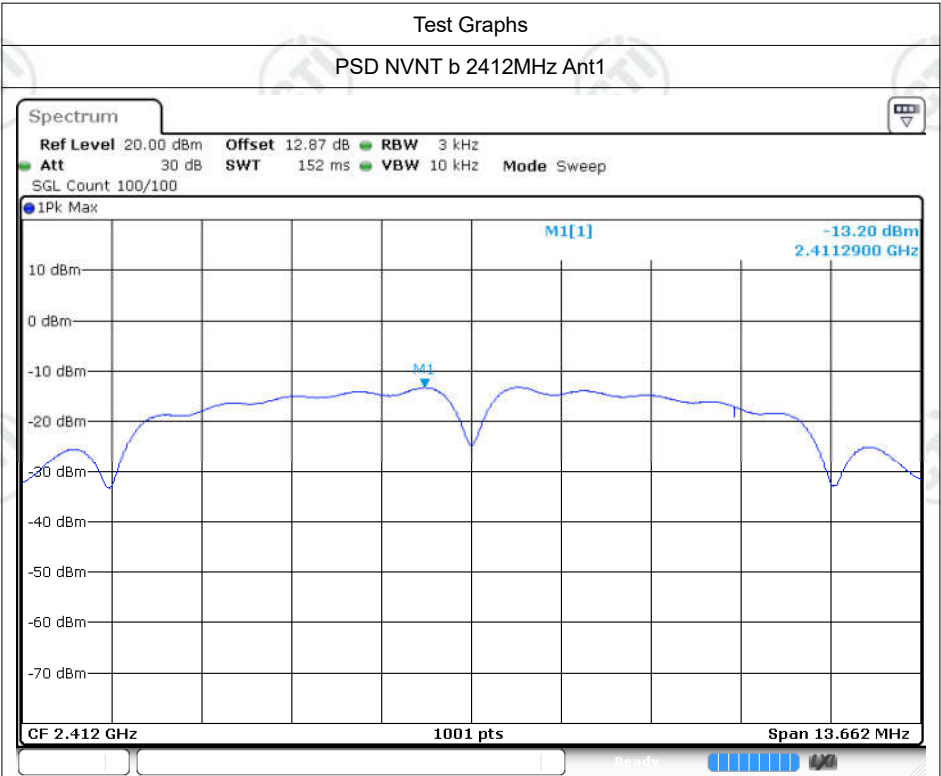
Date: 10.MAY.2023 16:09:04



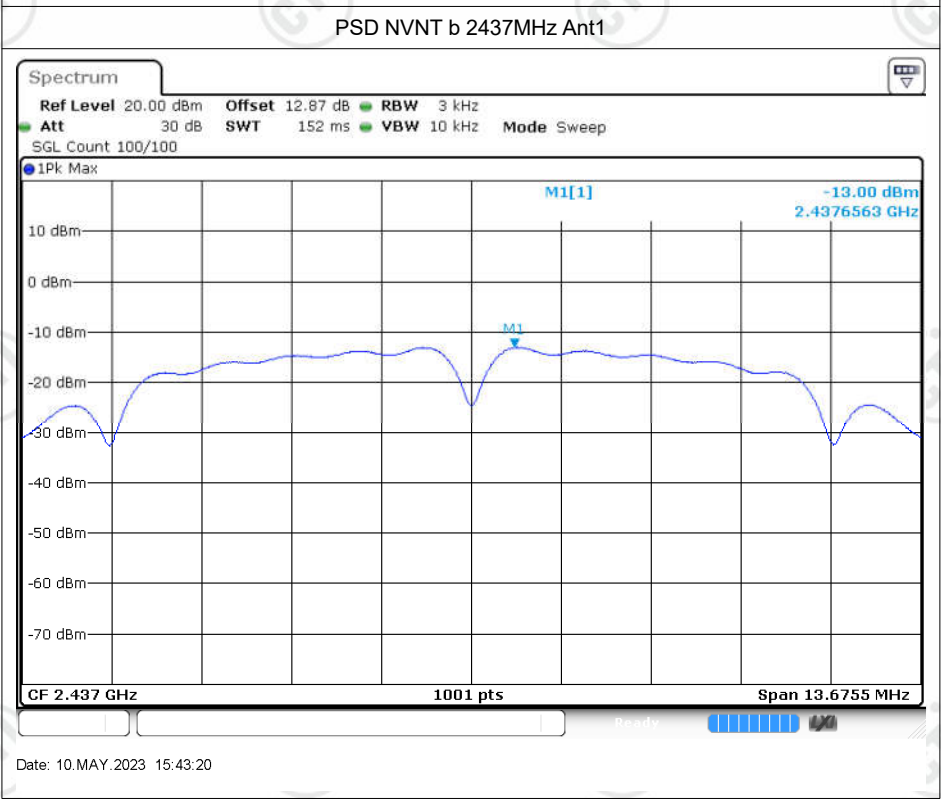


Maximum Power Spectral Density Level

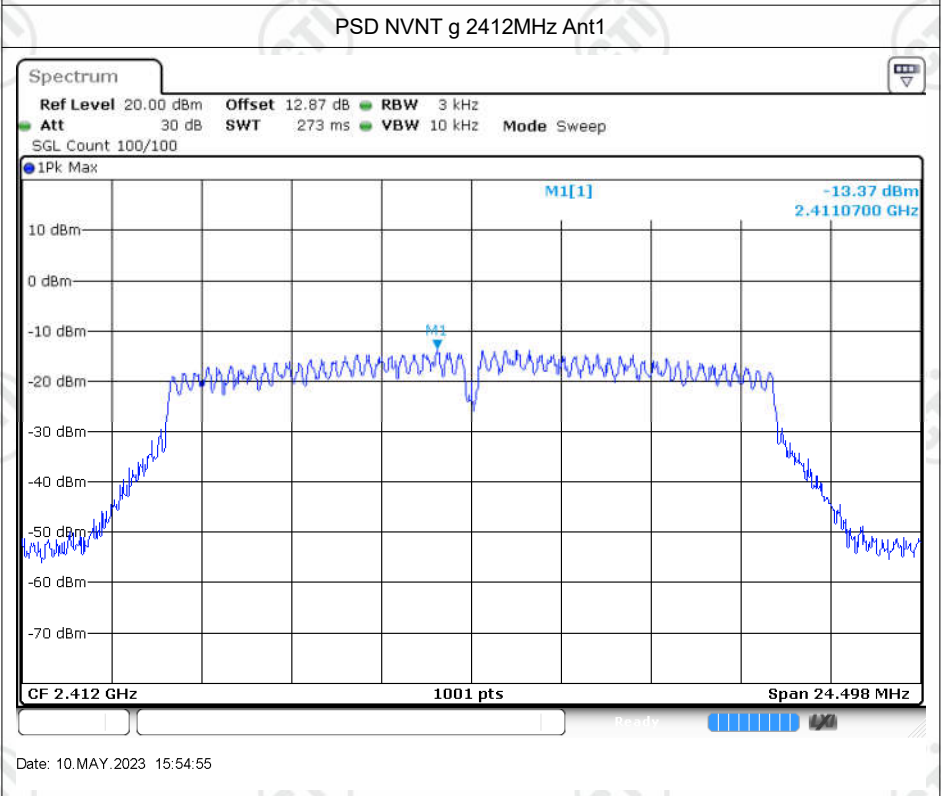
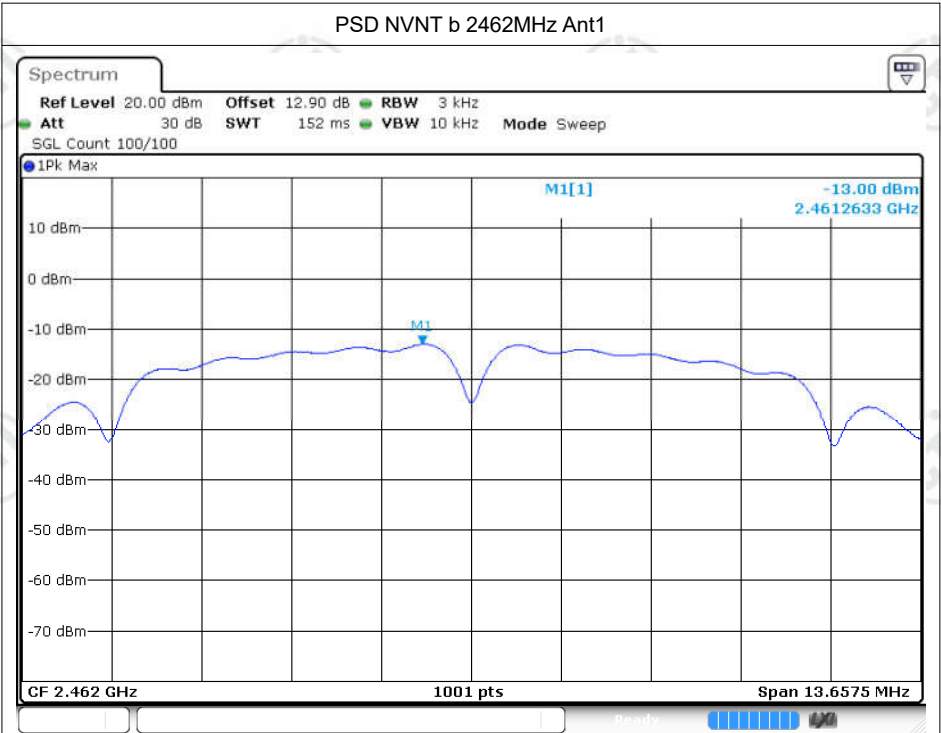
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-13.2	8	Pass
NVNT	b	2437	Ant1	-13	8	Pass
NVNT	b	2462	Ant1	-13	8	Pass
NVNT	g	2412	Ant1	-13.37	8	Pass
NVNT	g	2437	Ant1	-12.91	8	Pass
NVNT	g	2462	Ant1	-12.76	8	Pass
NVNT	n20	2412	Ant1	-12.29	8	Pass
NVNT	n20	2437	Ant1	-12.54	8	Pass
NVNT	n20	2462	Ant1	-12.34	8	Pass
NVNT	n40	2422	Ant1	-14.36	8	Pass
NVNT	n40	2437	Ant1	-14.18	8	Pass
NVNT	n40	2452	Ant1	-13.2	8	Pass

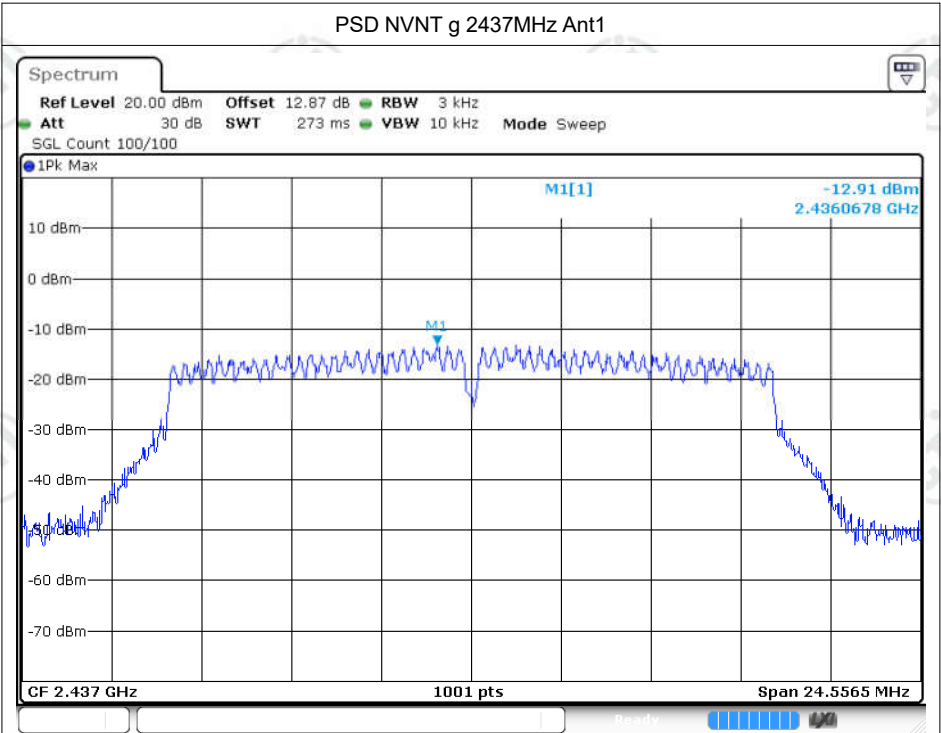


Date: 10.MAY.2023 15:41:14

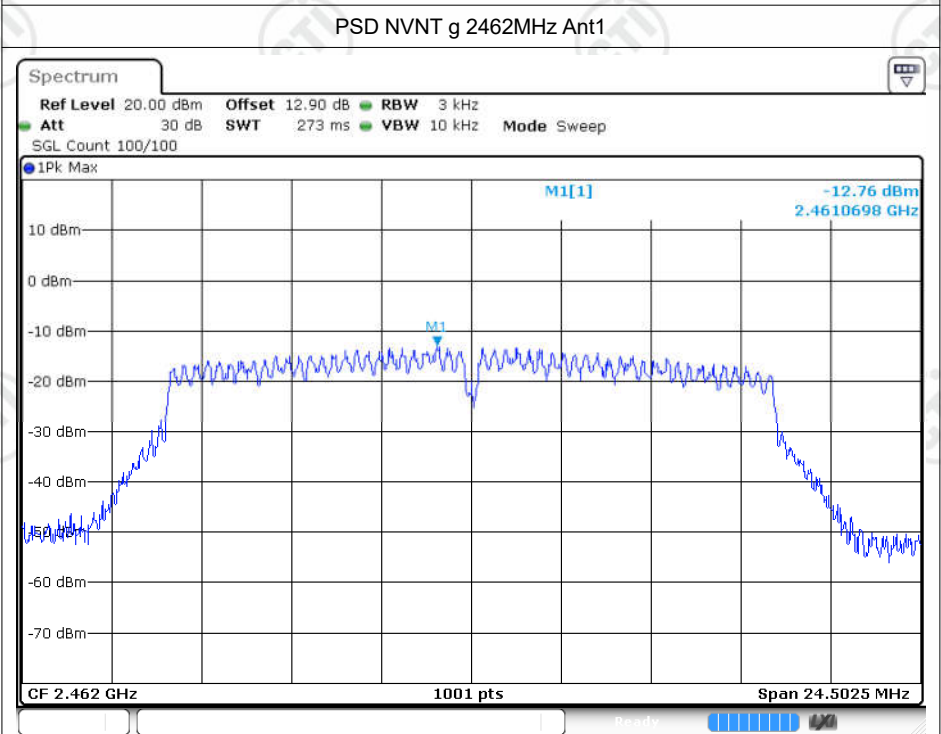


Date: 10.MAY.2023 15:43:20

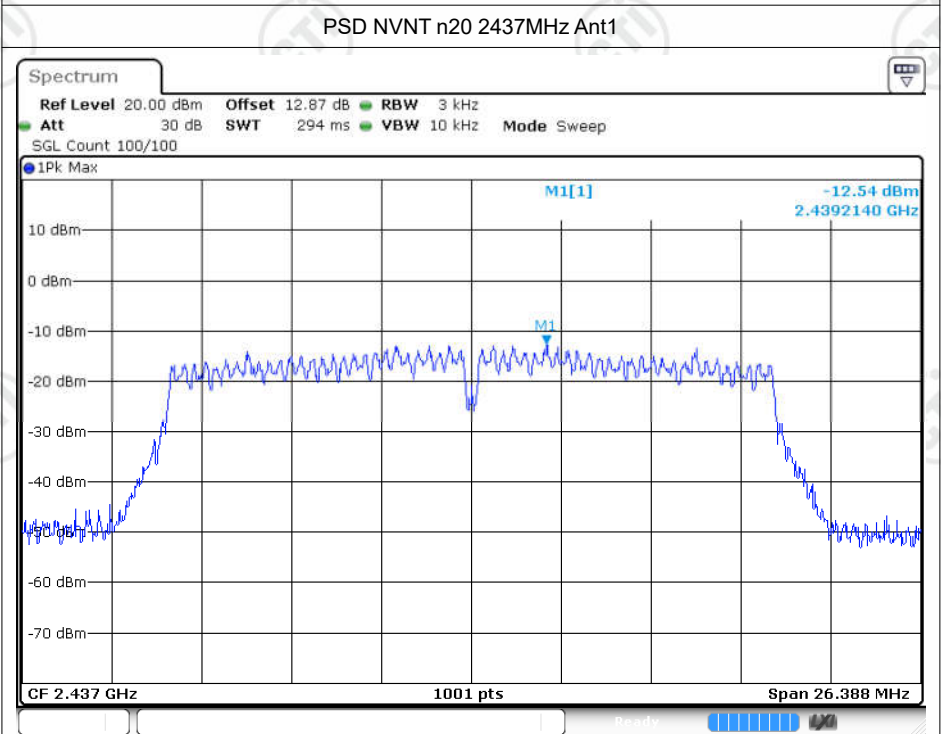
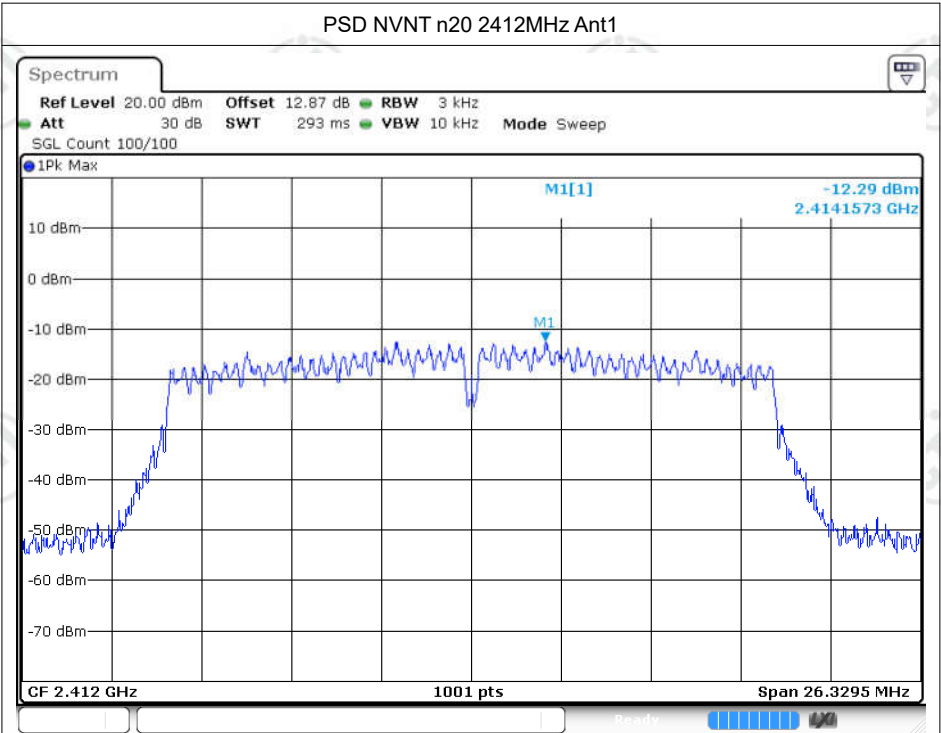


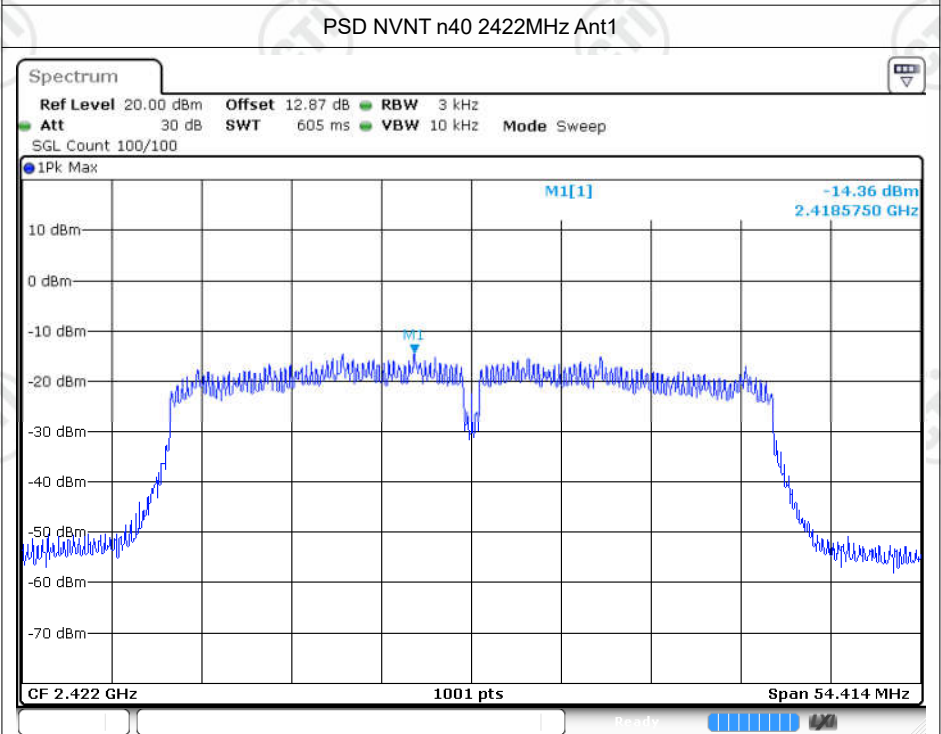
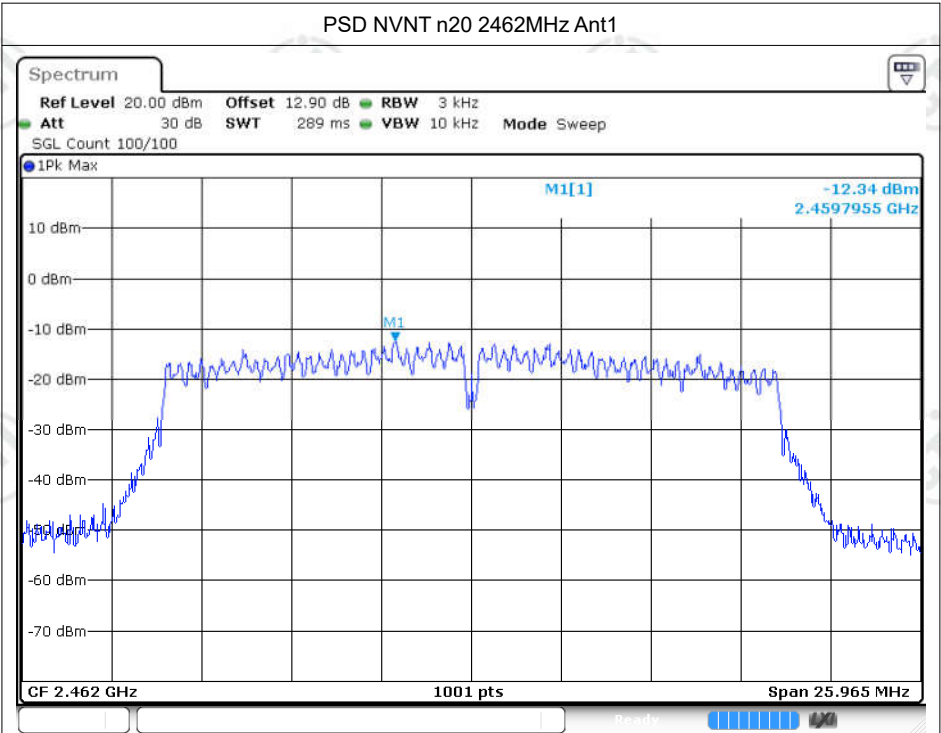


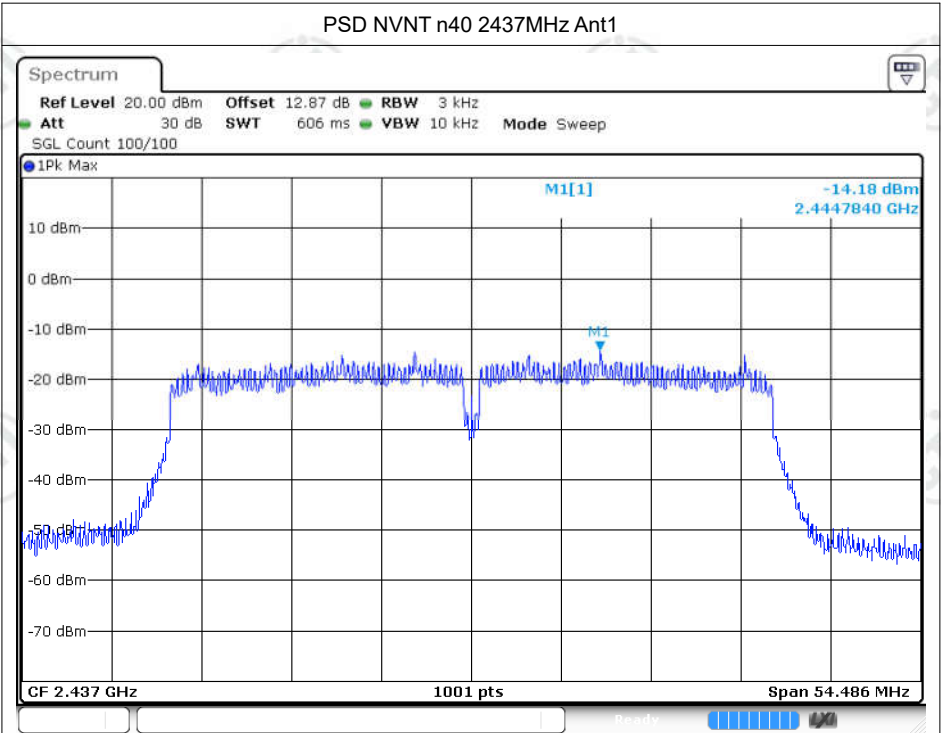
Date: 10.MAY.2023 15:58:46



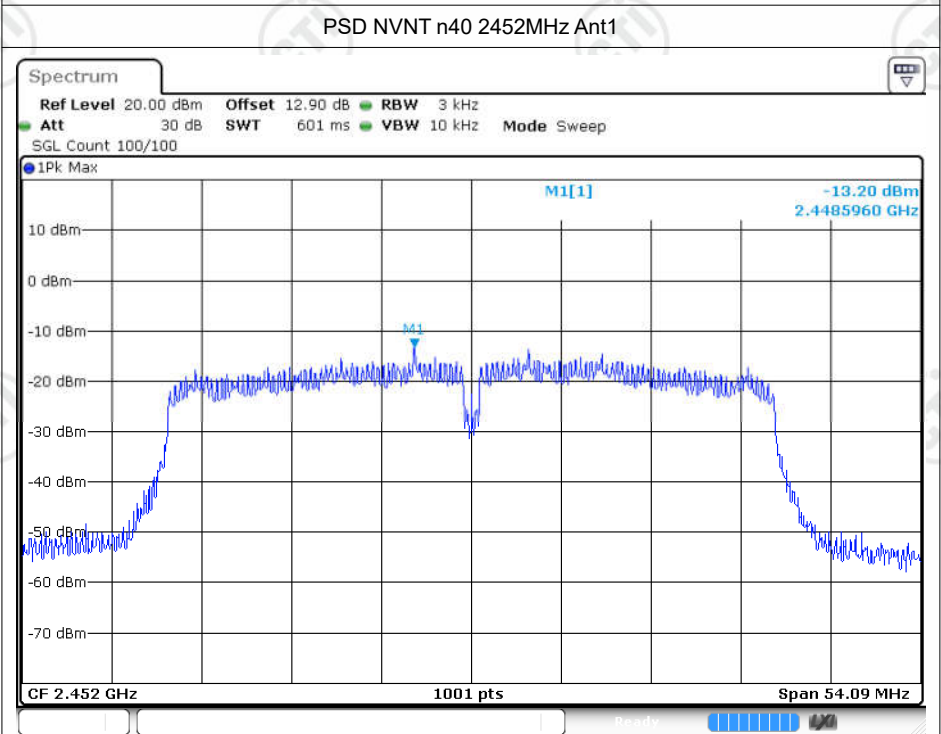
Date: 10.MAY.2023 16:00:41







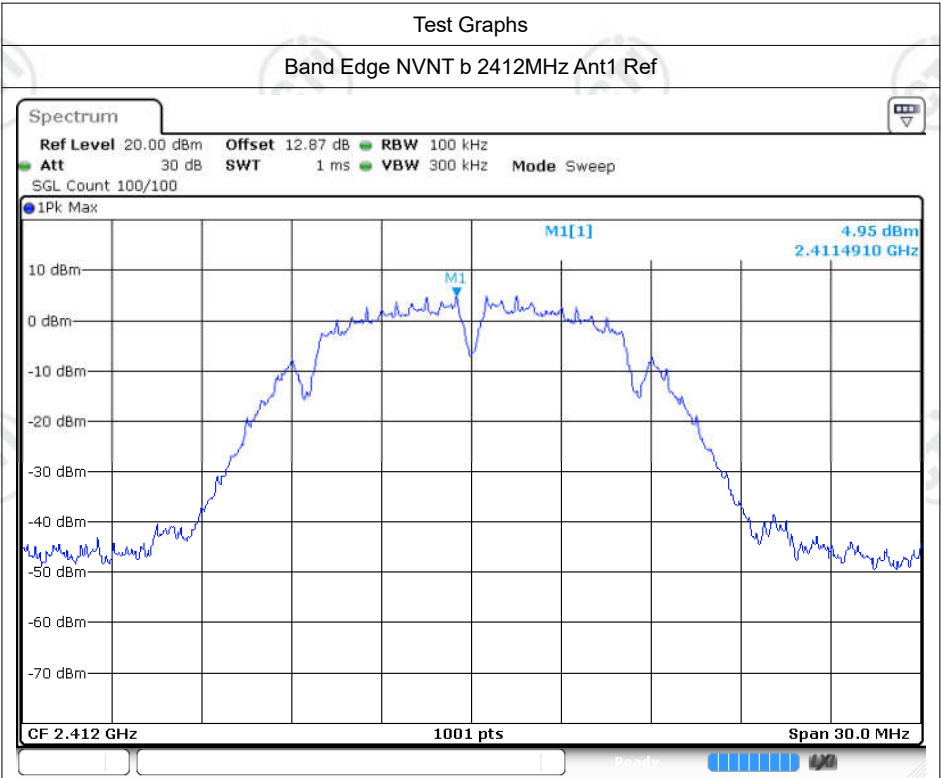
Date: 10.MAY.2023 16:15:59



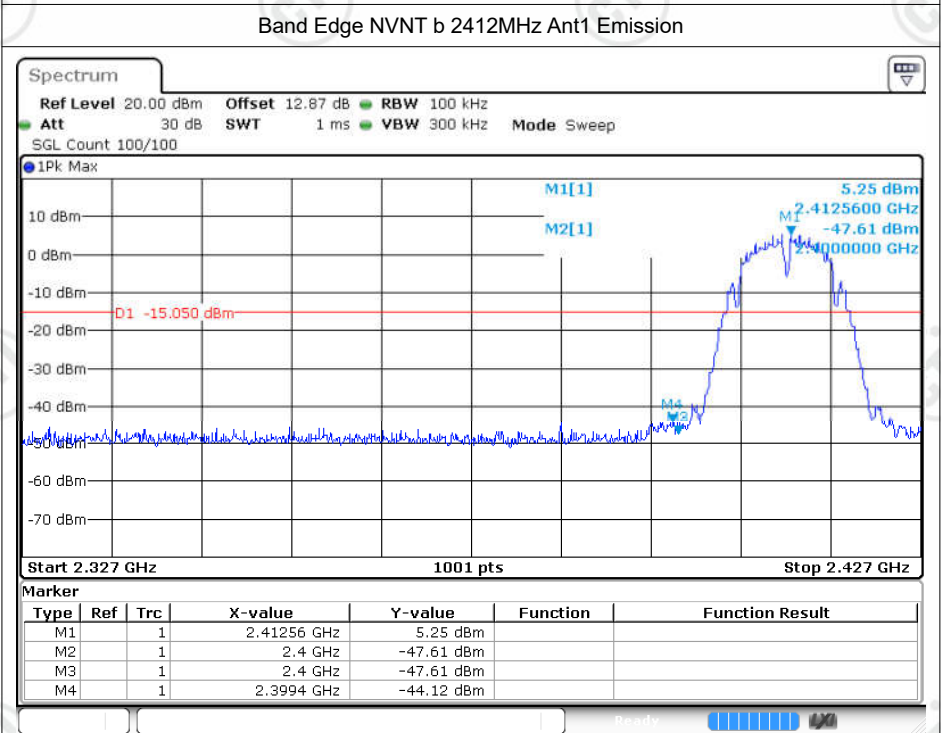
Date: 10.MAY.2023 16:18:41

Band Edge

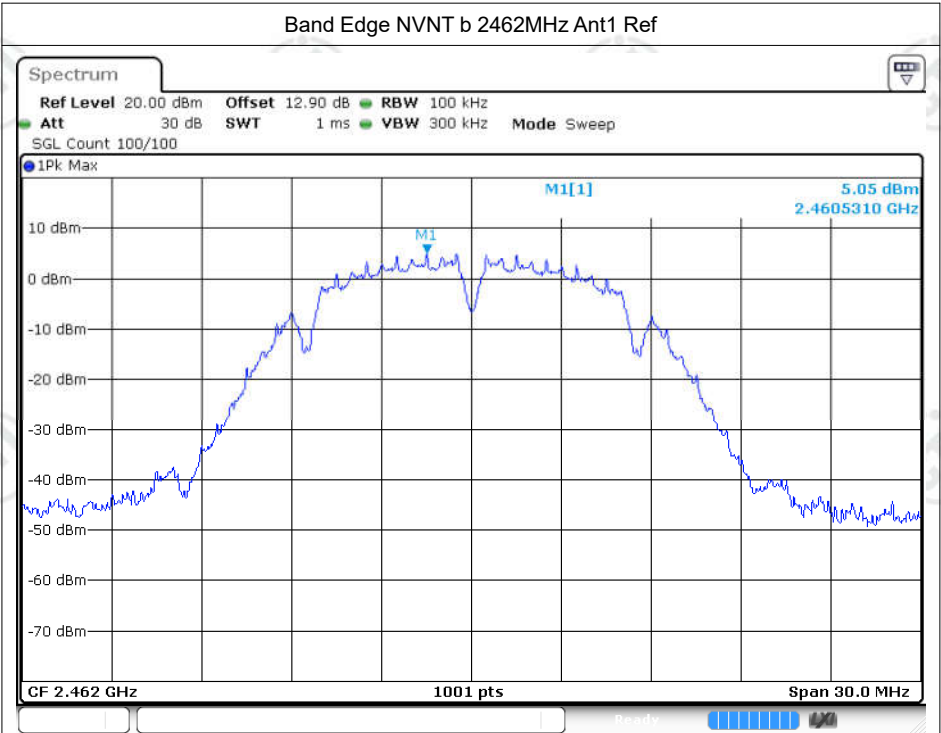
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.06	-20	Pass
NVNT	b	2462	Ant1	-51.19	-20	Pass
NVNT	g	2412	Ant1	-35.6	-20	Pass
NVNT	g	2462	Ant1	-45.45	-20	Pass
NVNT	n20	2412	Ant1	-36.32	-20	Pass
NVNT	n20	2462	Ant1	-45.84	-20	Pass
NVNT	n40	2422	Ant1	-34.57	-20	Pass
NVNT	n40	2452	Ant1	-39.45	-20	Pass



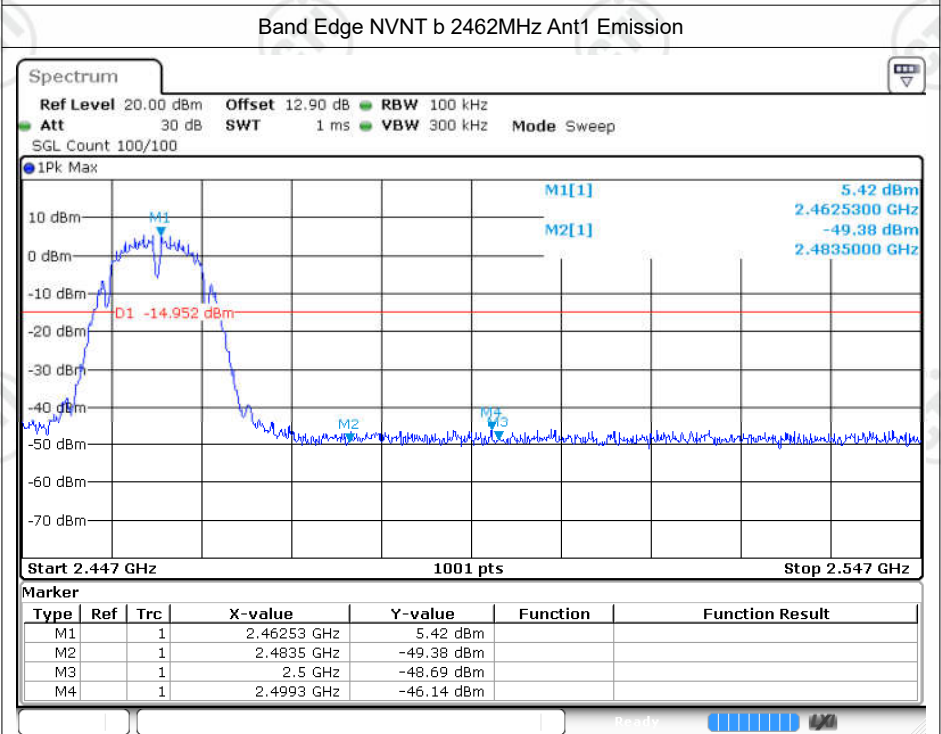
Date: 10.MAY.2023 15:41:17



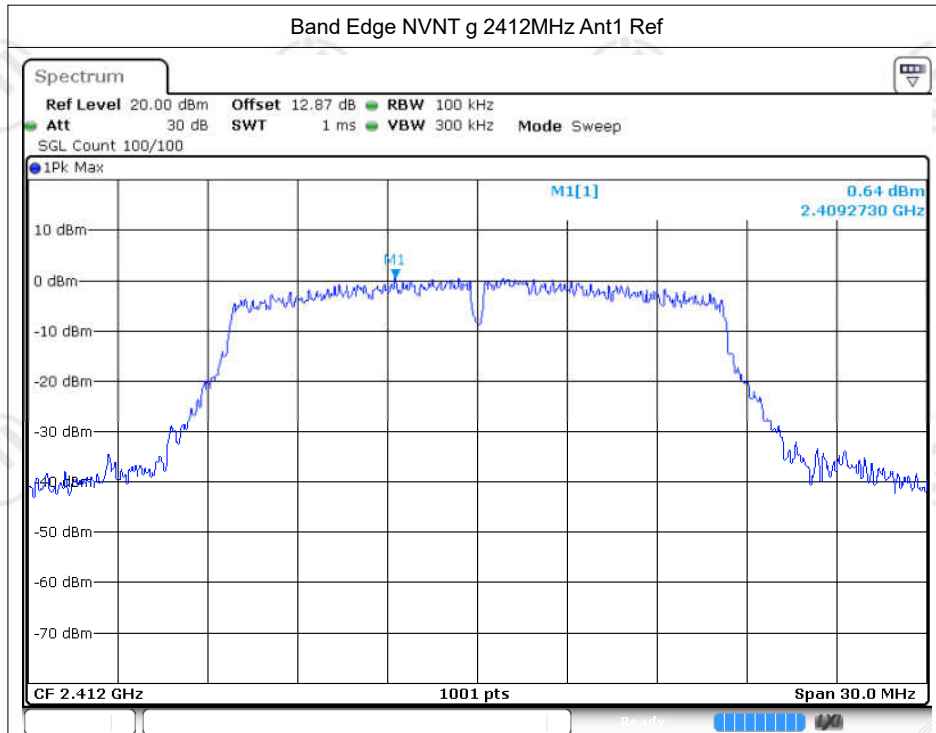
Date: 10.MAY.2023 15:41:19



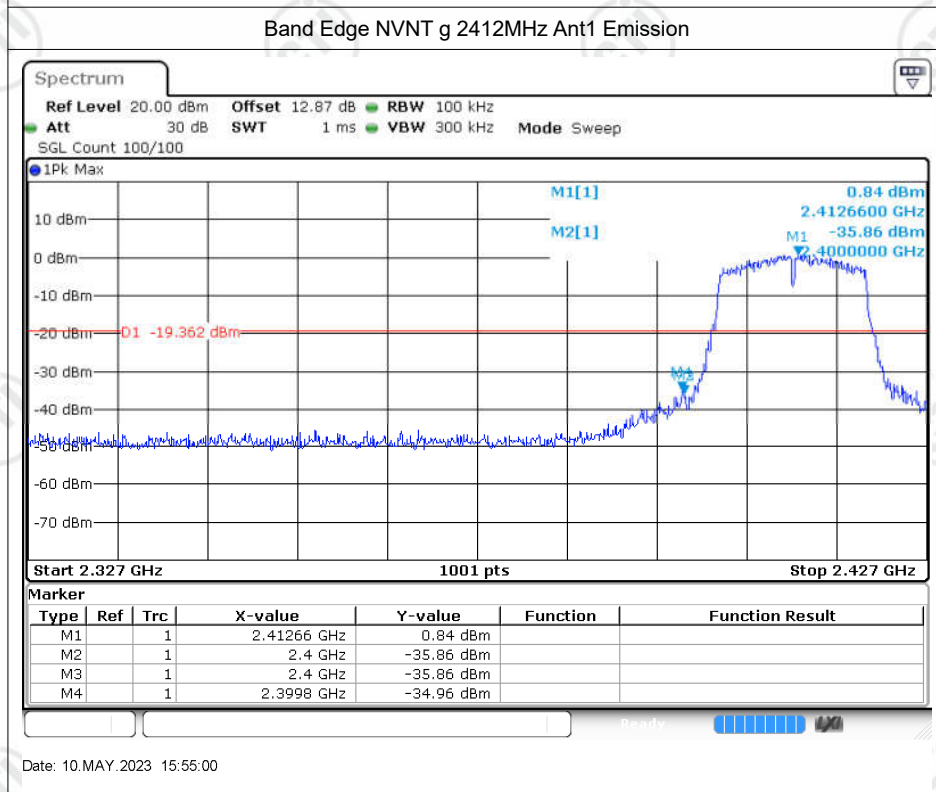
Date: 10.MAY.2023 15:44:53



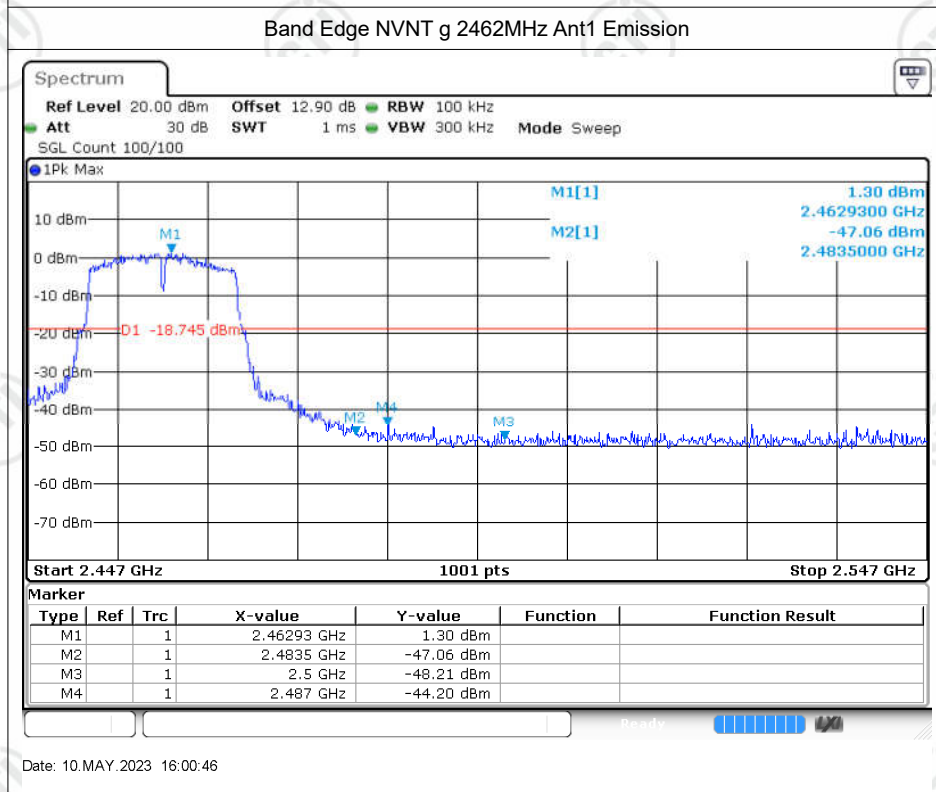
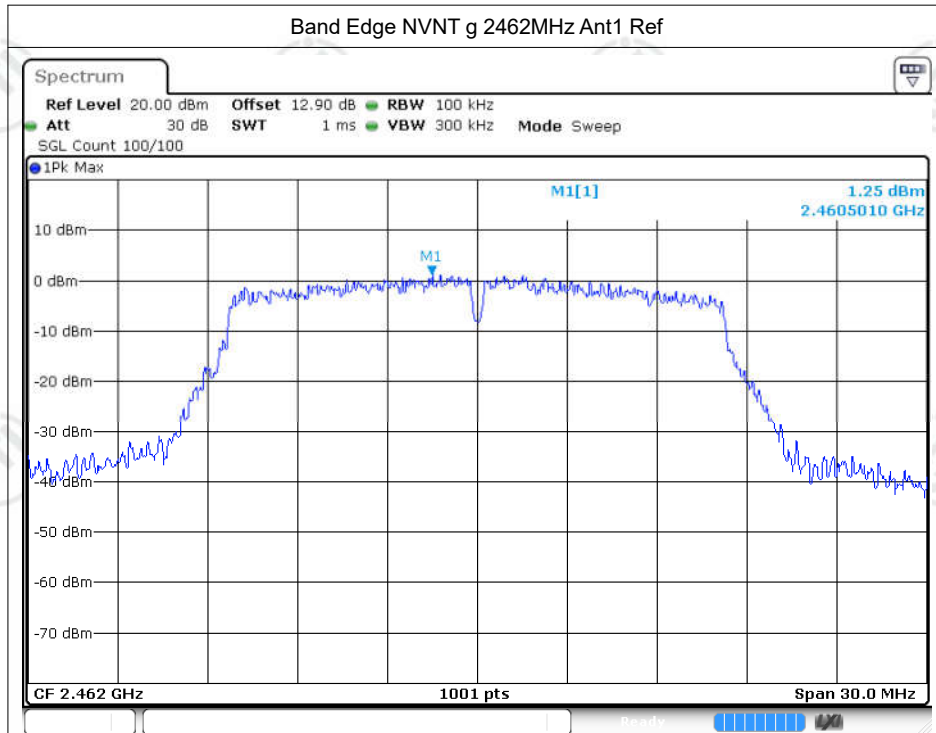
Date: 10.MAY.2023 15:44:55

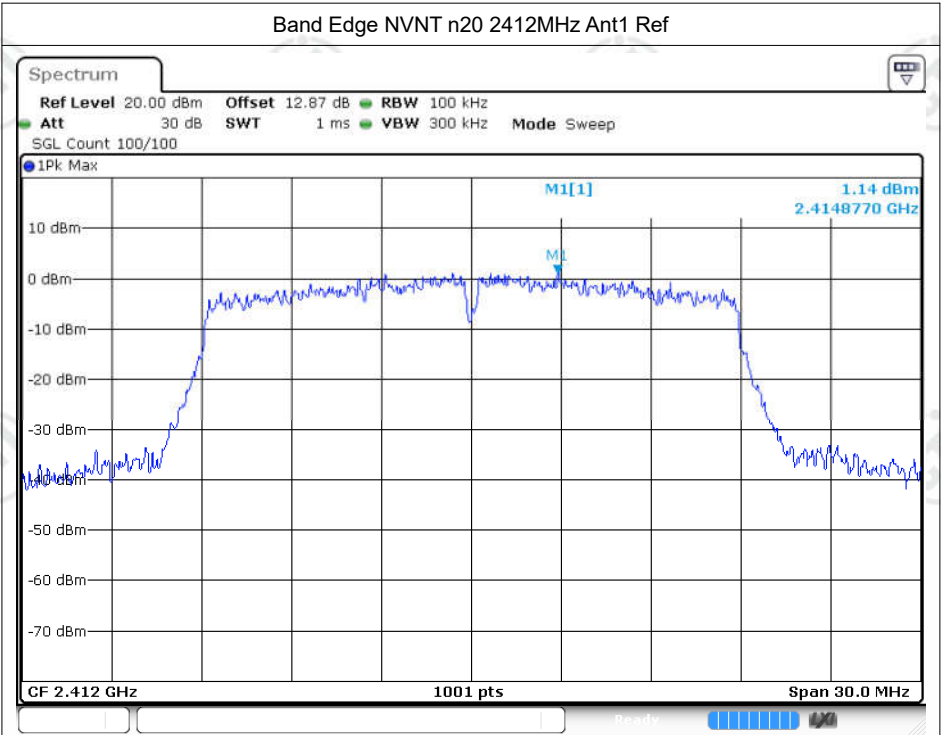


Date: 10.MAY.2023 15:54:59

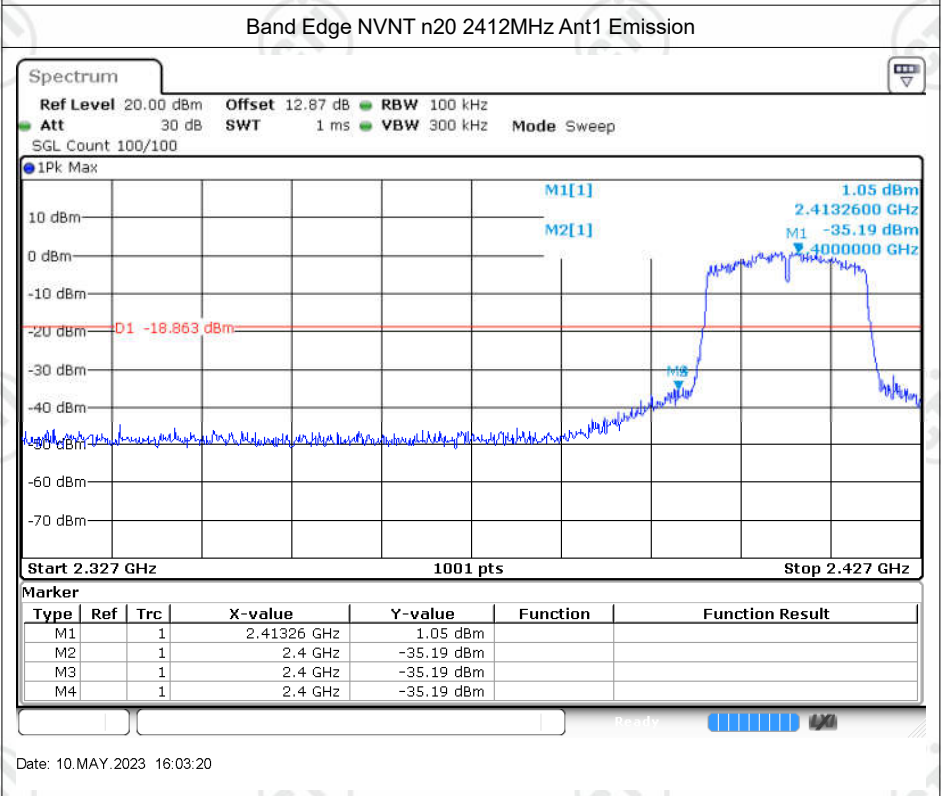


Date: 10.MAY.2023 15:55:00

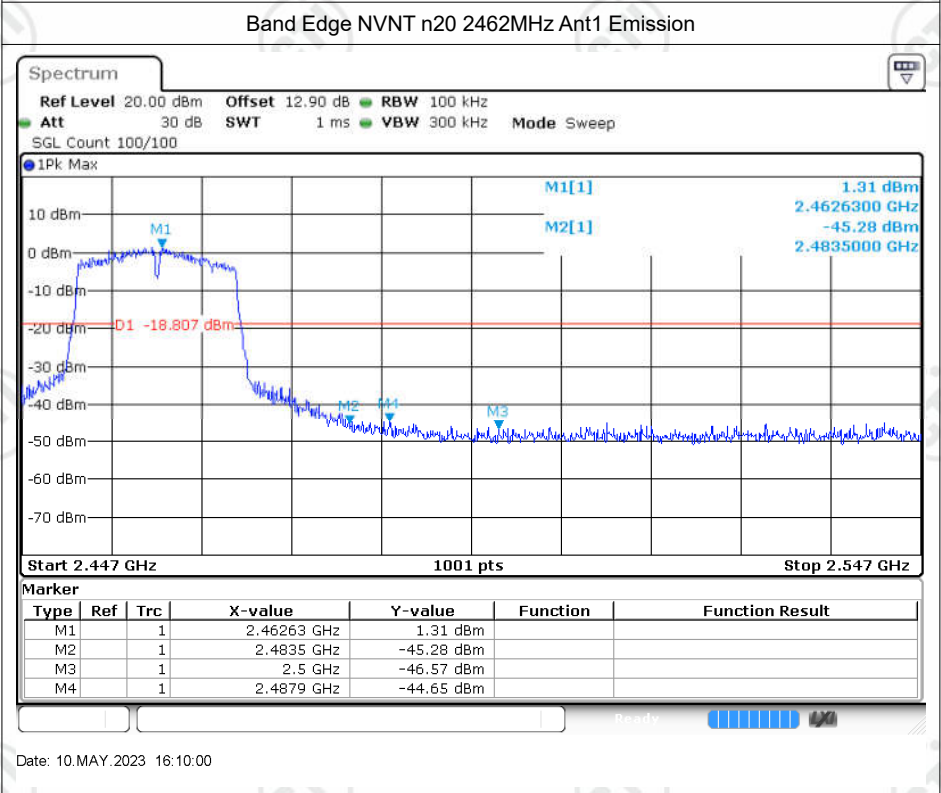
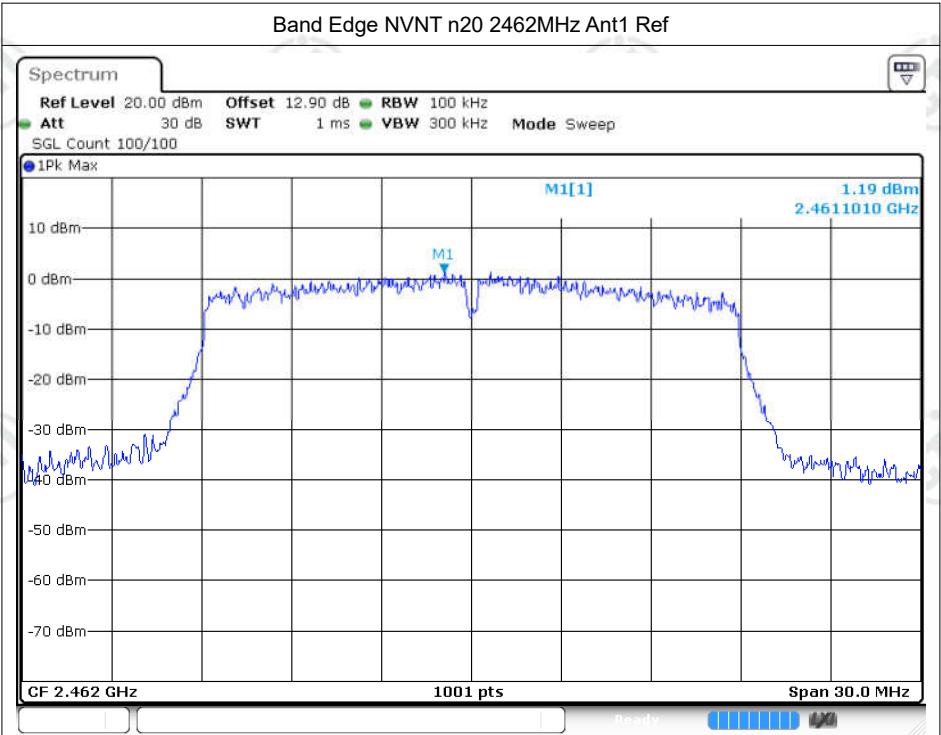


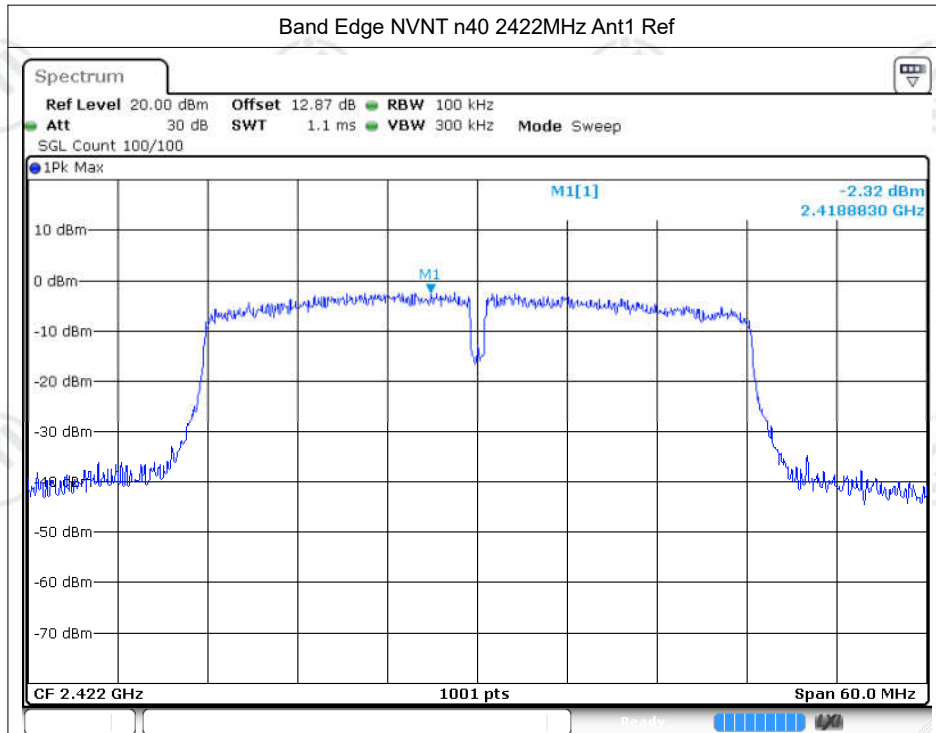


Date: 10.MAY.2023 16:03:18

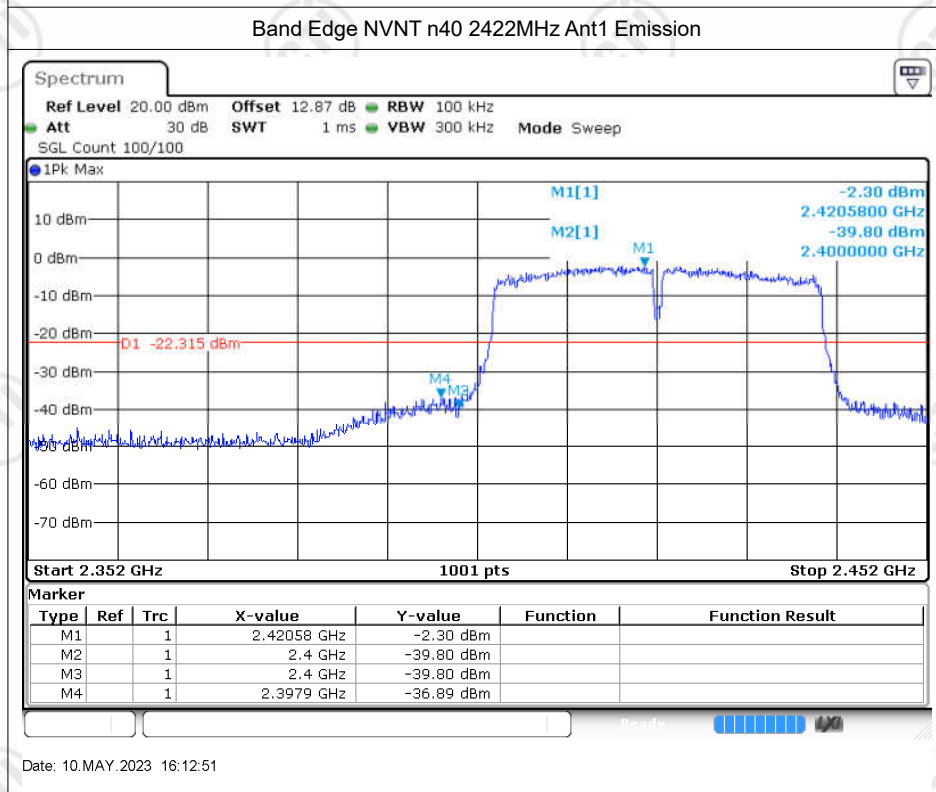


Date: 10.MAY.2023 16:03:20

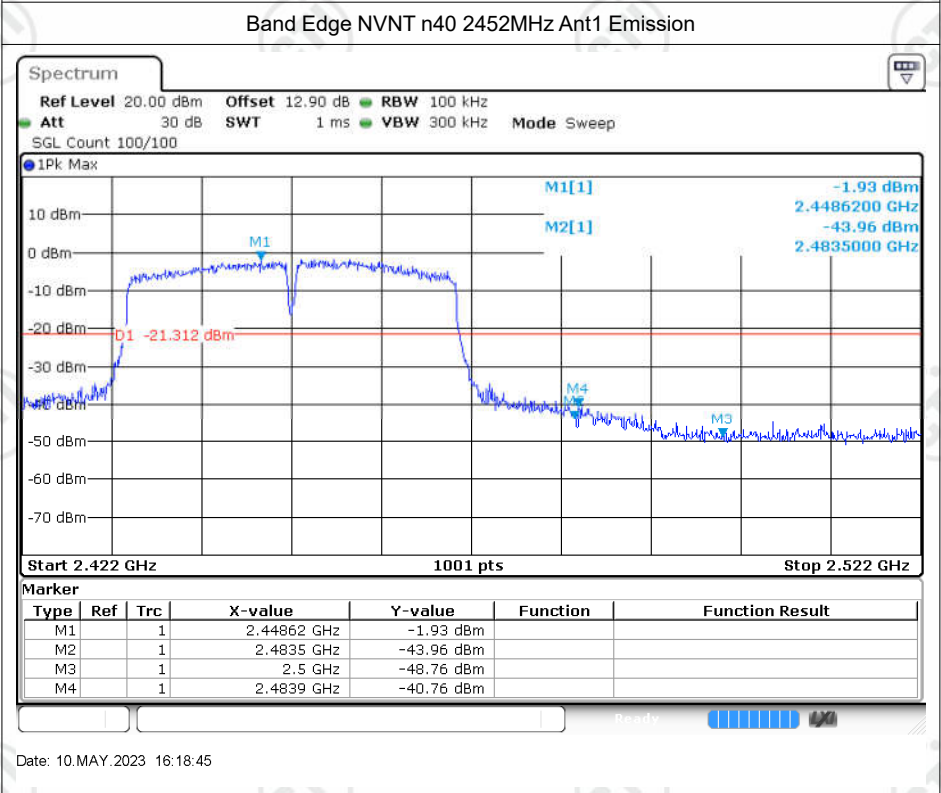
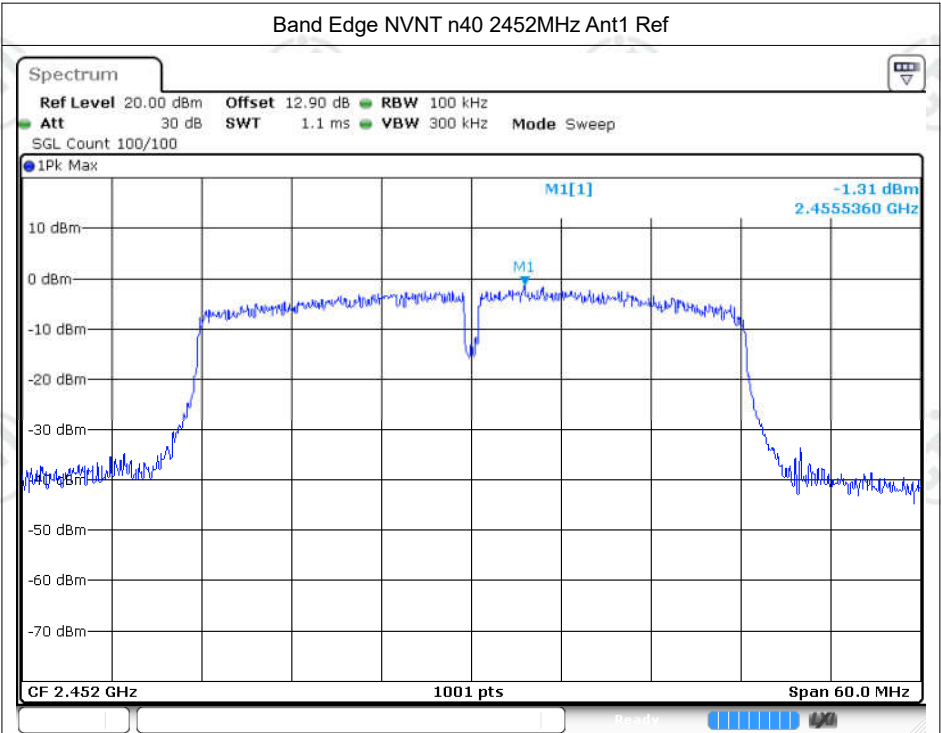




Date: 10.MAY.2023 16:12:50

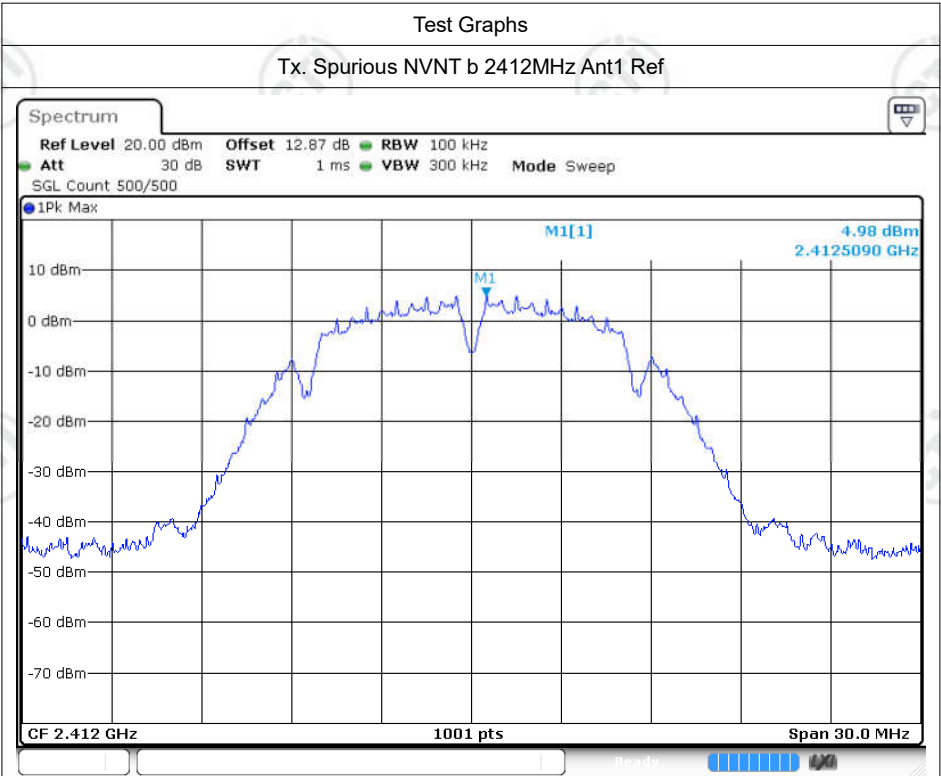


Date: 10.MAY.2023 16:12:51

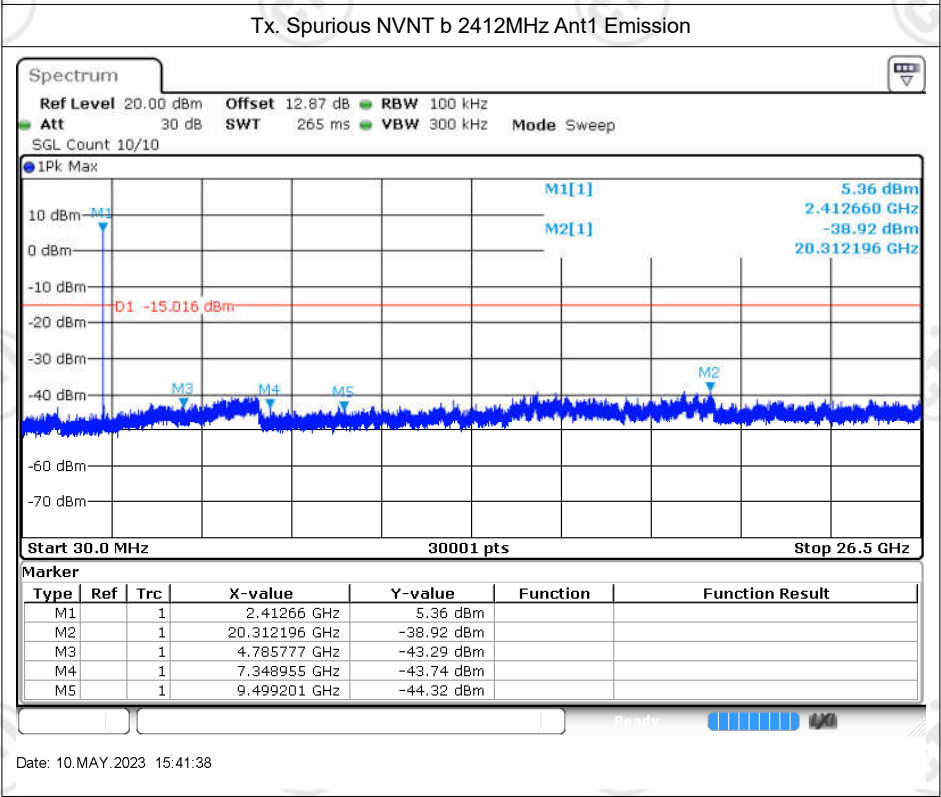


Conducted RF Spurious Emission

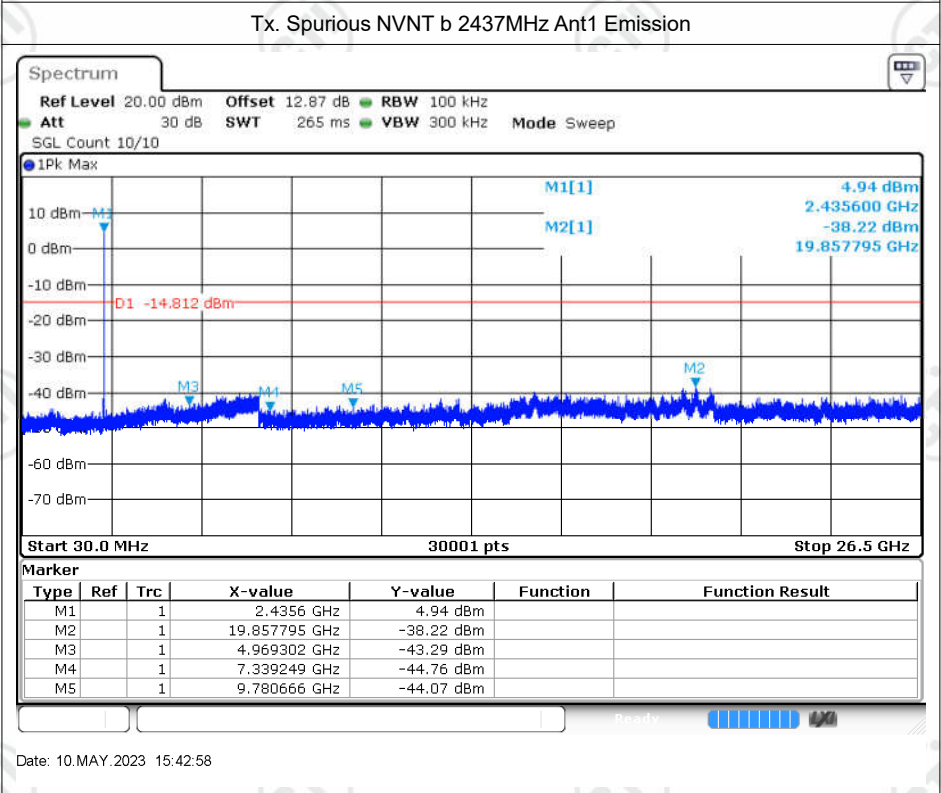
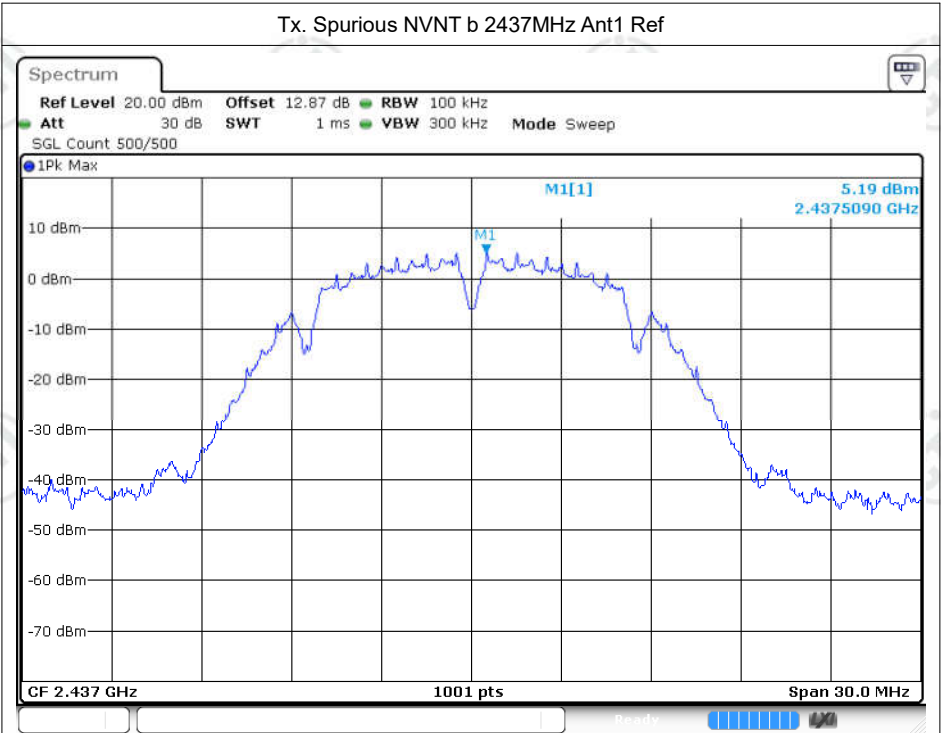
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.9	-20	Pass
NVNT	b	2437	Ant1	-43.4	-20	Pass
NVNT	b	2462	Ant1	-43.91	-20	Pass
NVNT	g	2412	Ant1	-39.1	-20	Pass
NVNT	g	2437	Ant1	-40	-20	Pass
NVNT	g	2462	Ant1	-40.13	-20	Pass
NVNT	n20	2412	Ant1	-39.89	-20	Pass
NVNT	n20	2437	Ant1	-39.88	-20	Pass
NVNT	n20	2462	Ant1	-40.11	-20	Pass
NVNT	n40	2422	Ant1	-36.57	-20	Pass
NVNT	n40	2437	Ant1	-35.25	-20	Pass
NVNT	n40	2452	Ant1	-37.29	-20	Pass

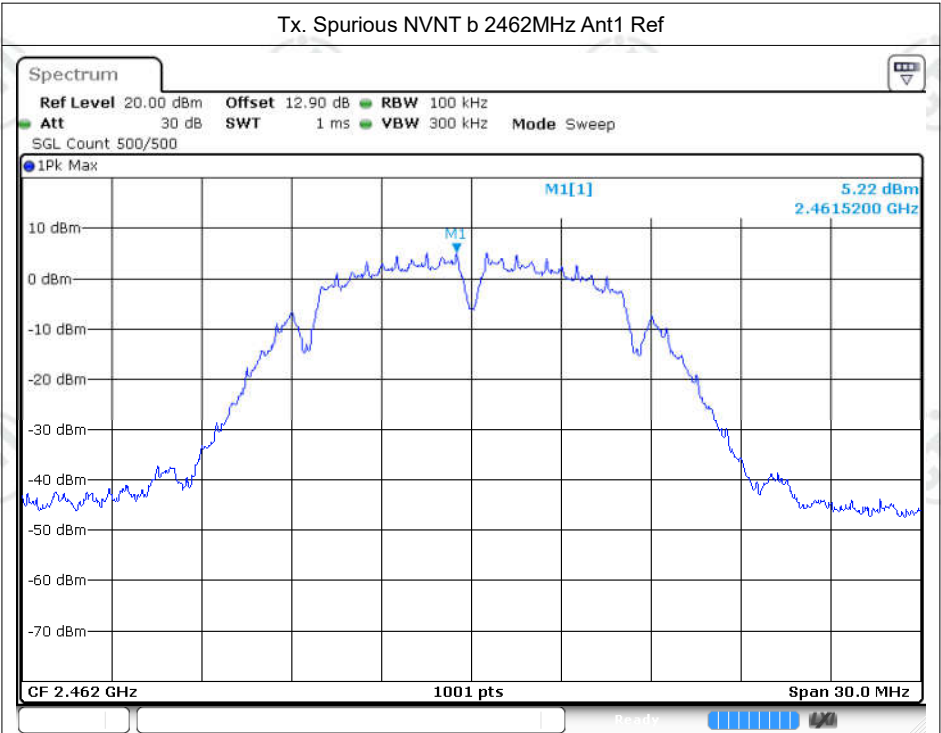


Date: 10.MAY.2023 15:41:27

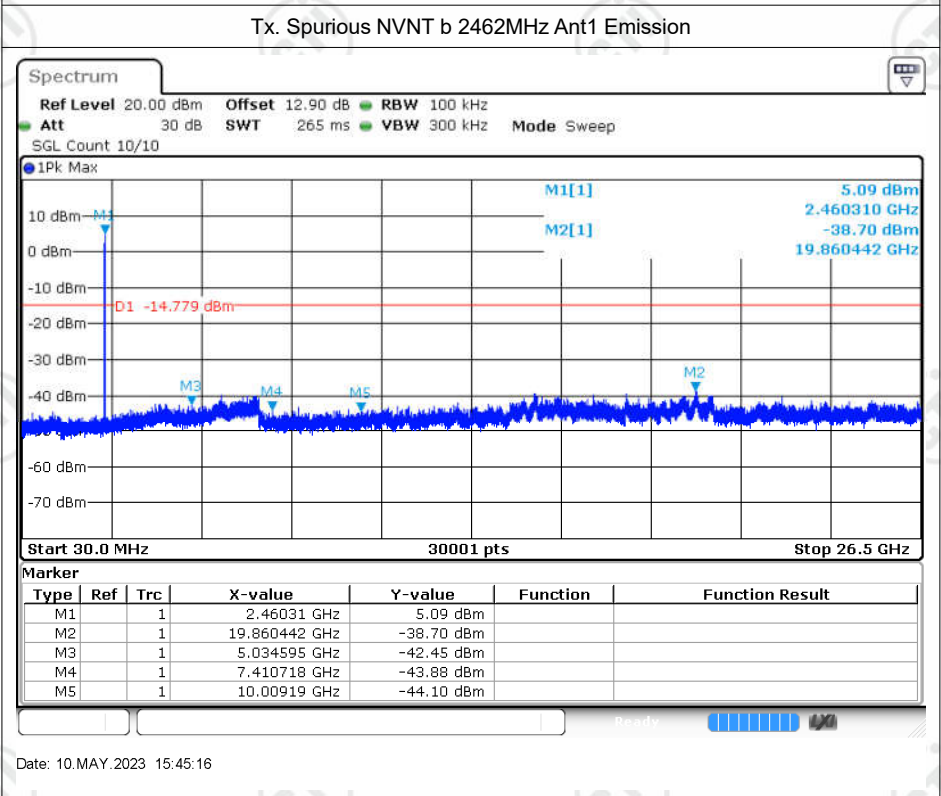


Date: 10.MAY.2023 15:41:38

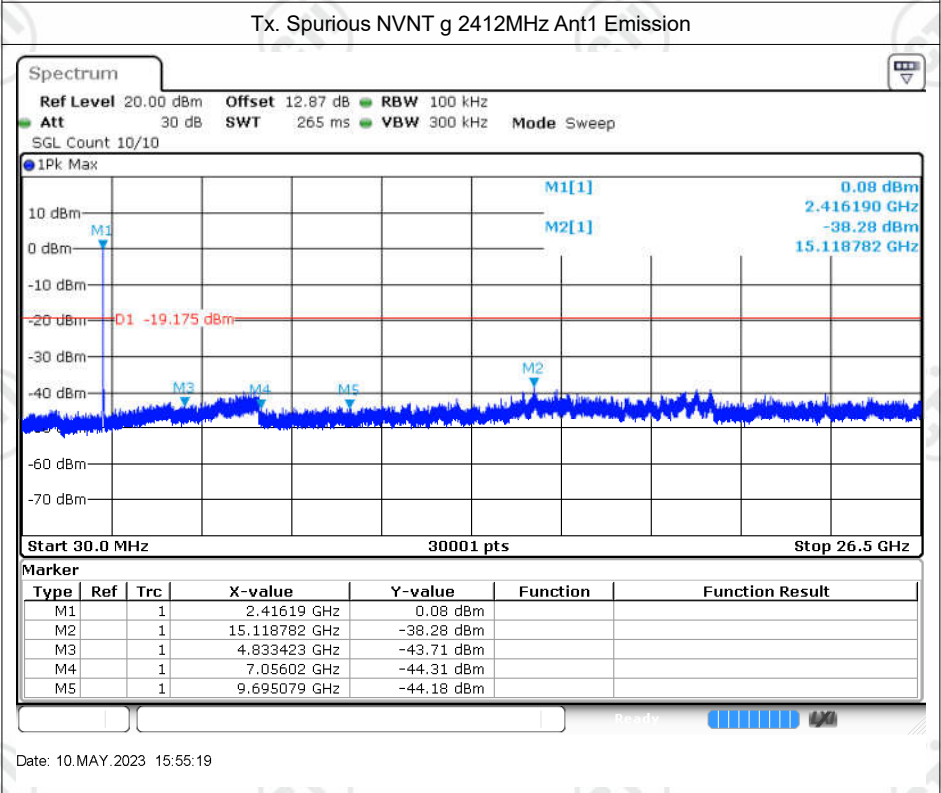
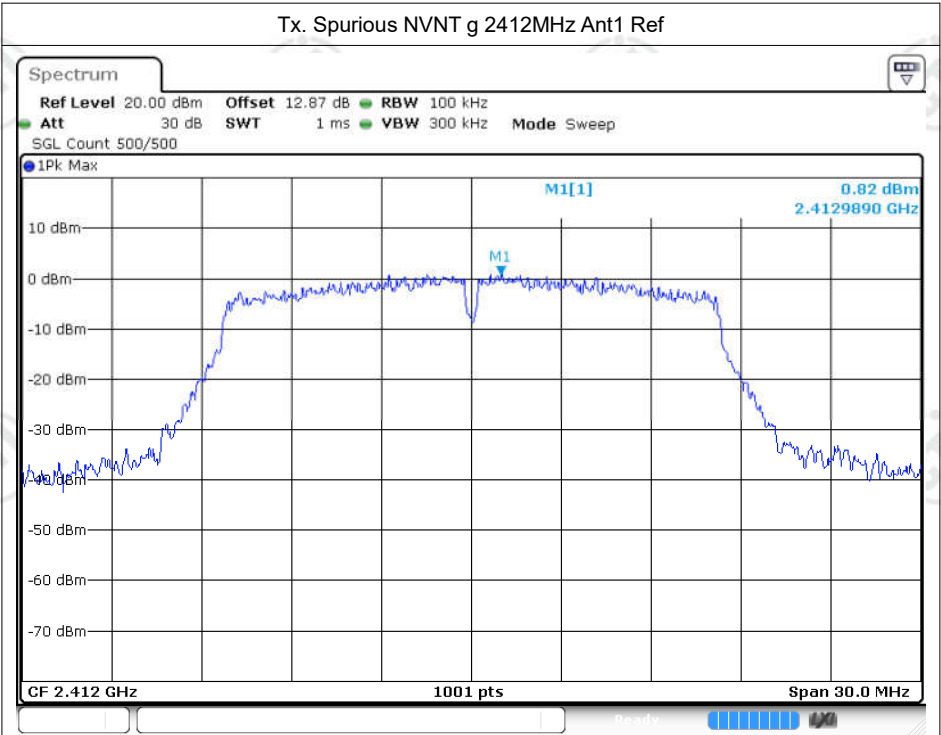


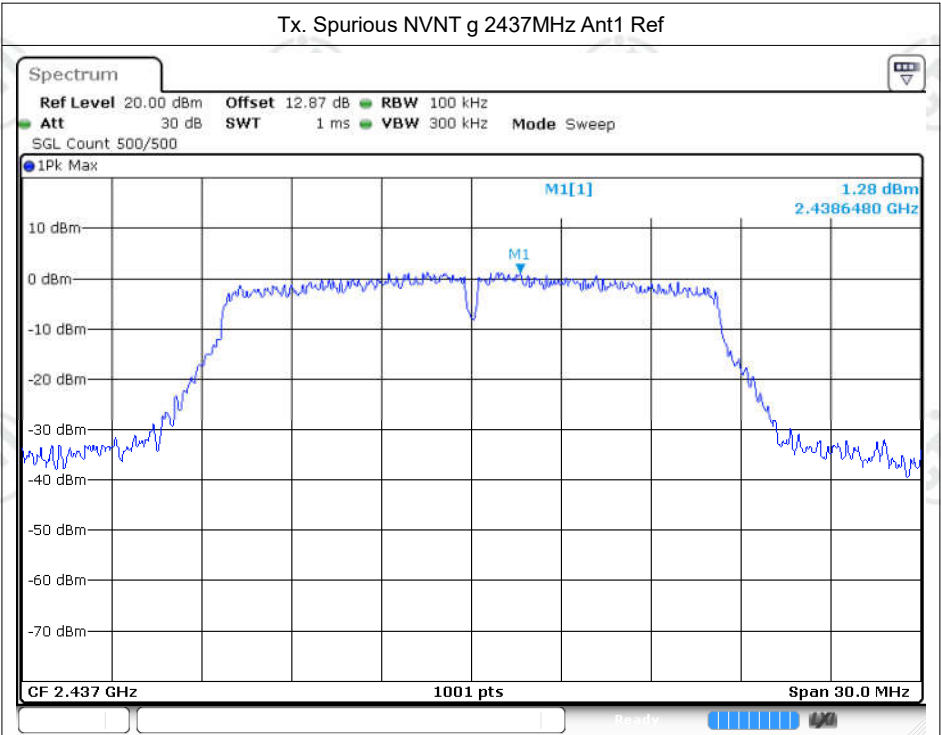


Date: 10.MAY.2023 15:45:05

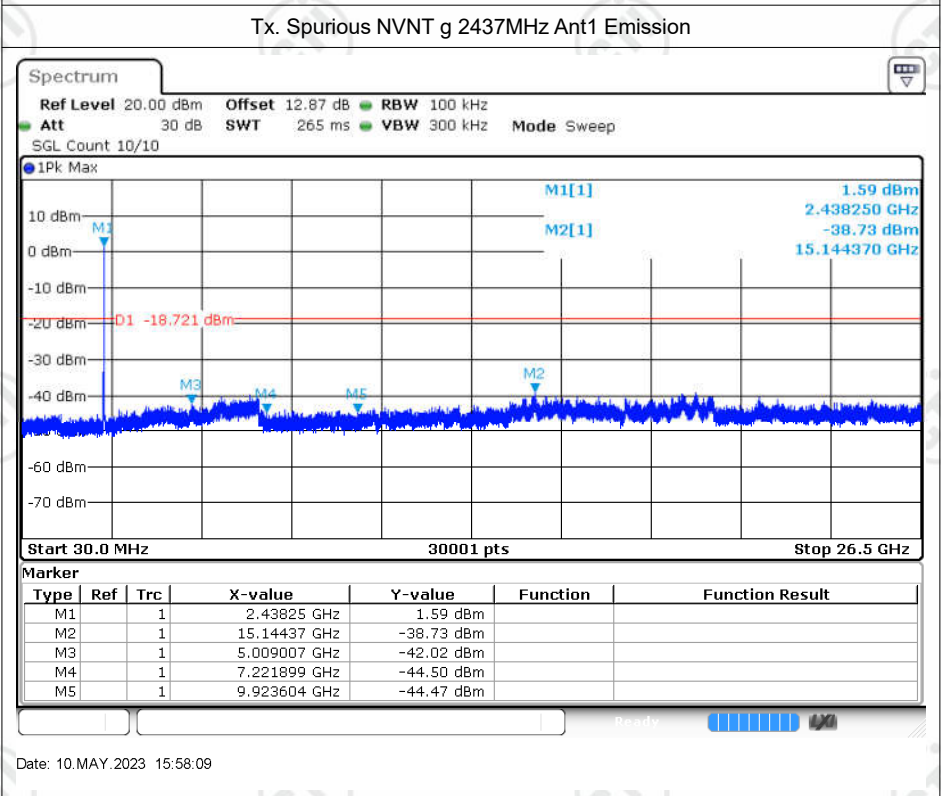


Date: 10.MAY.2023 15:45:16

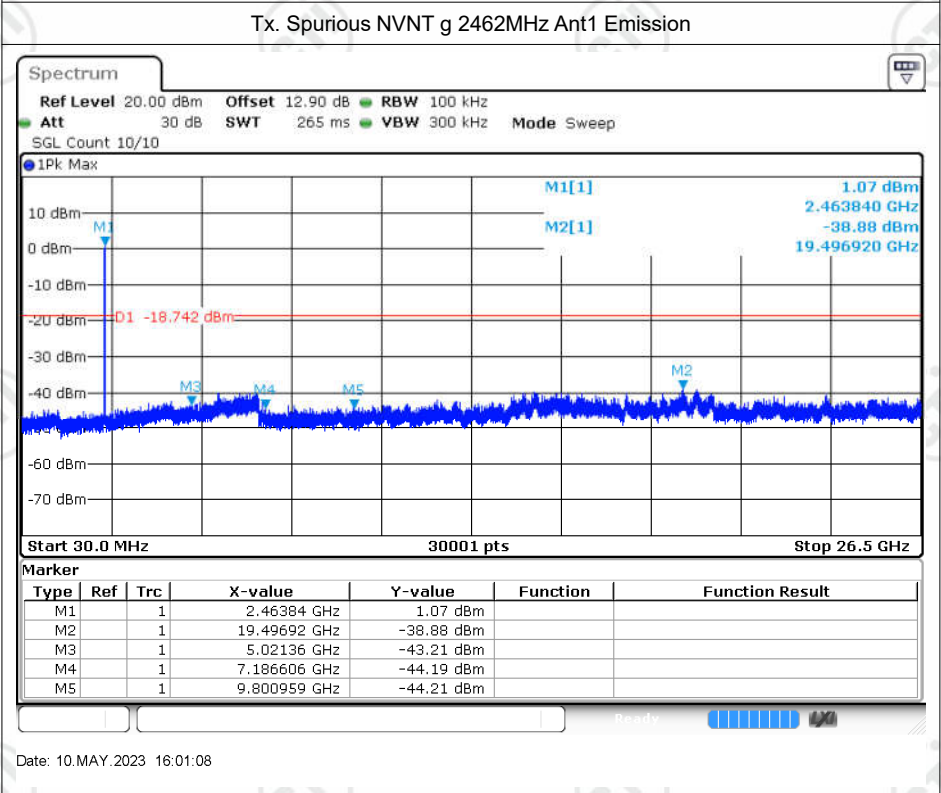
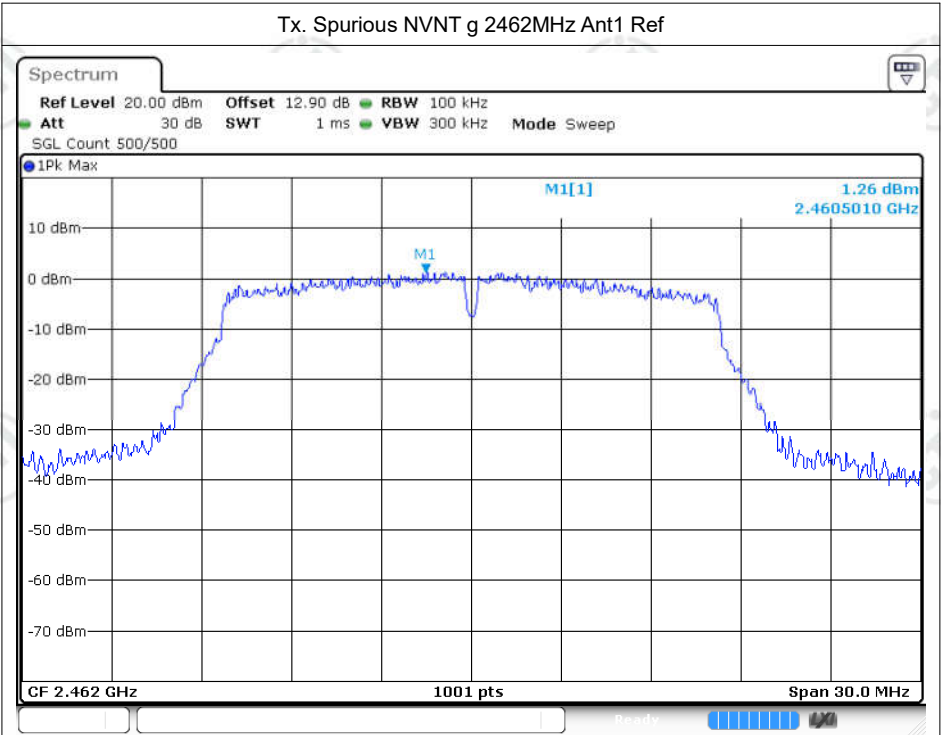


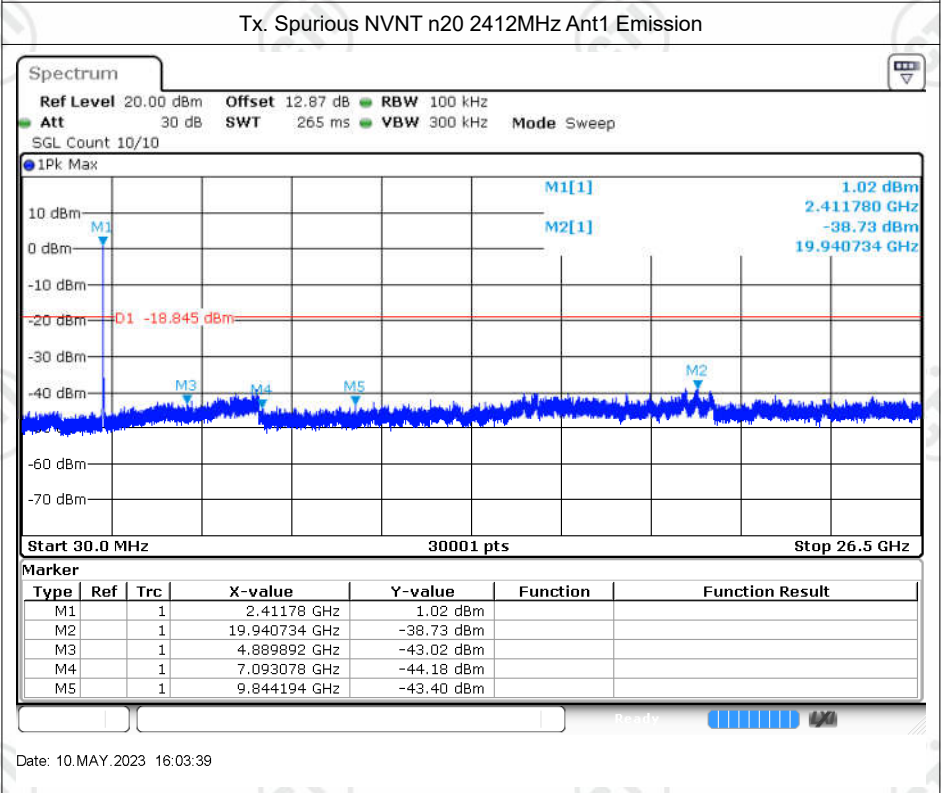
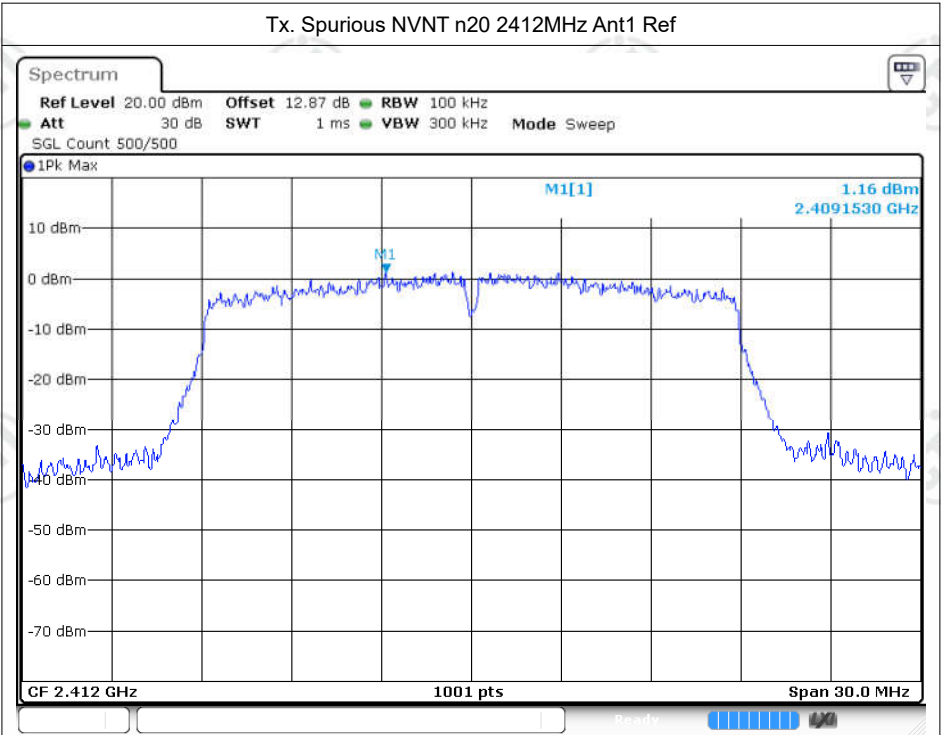


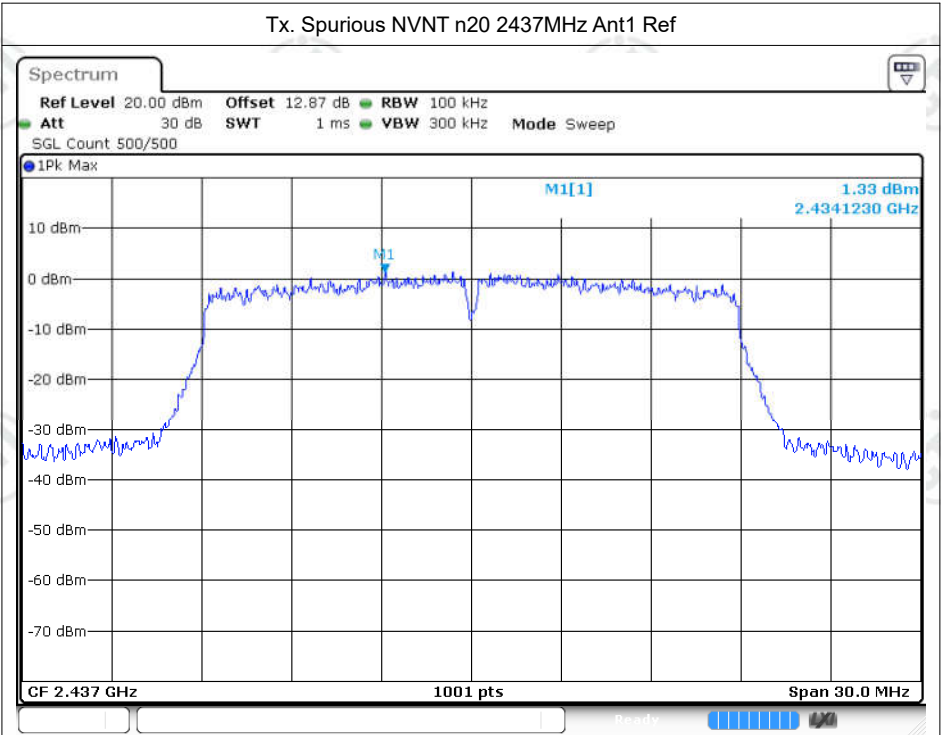
Date: 10.MAY.2023 15:57:57



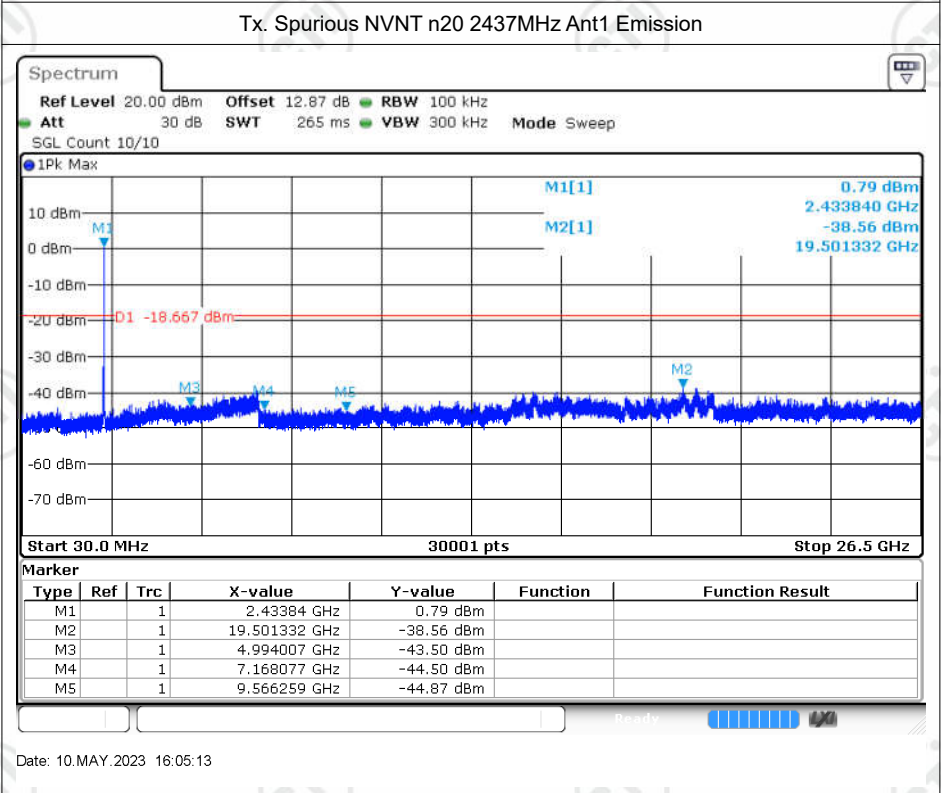
Date: 10.MAY.2023 15:58:09



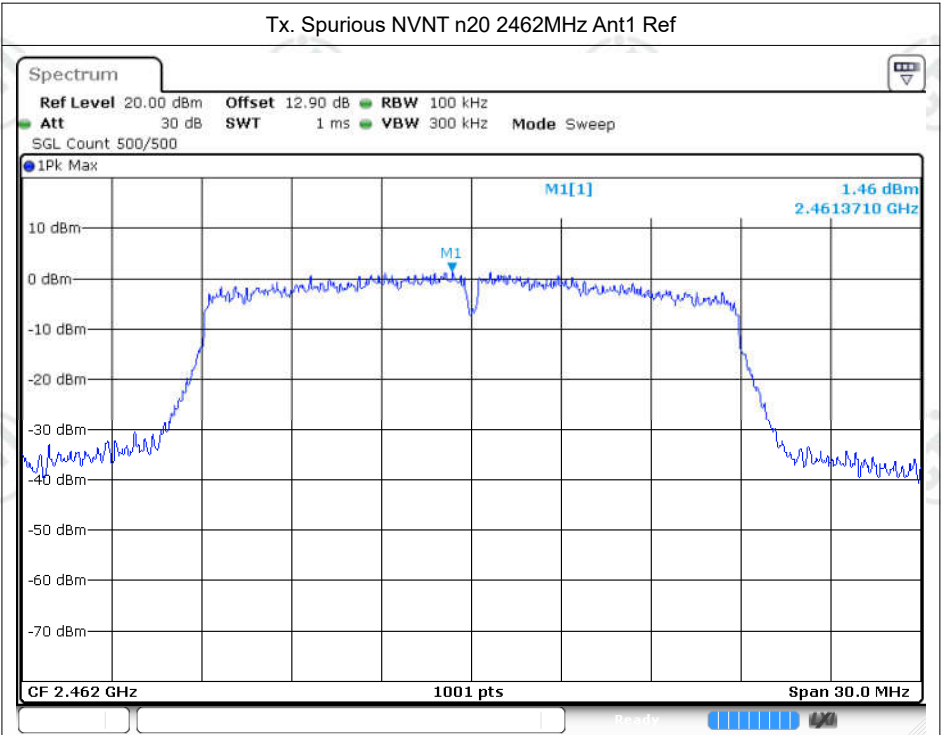




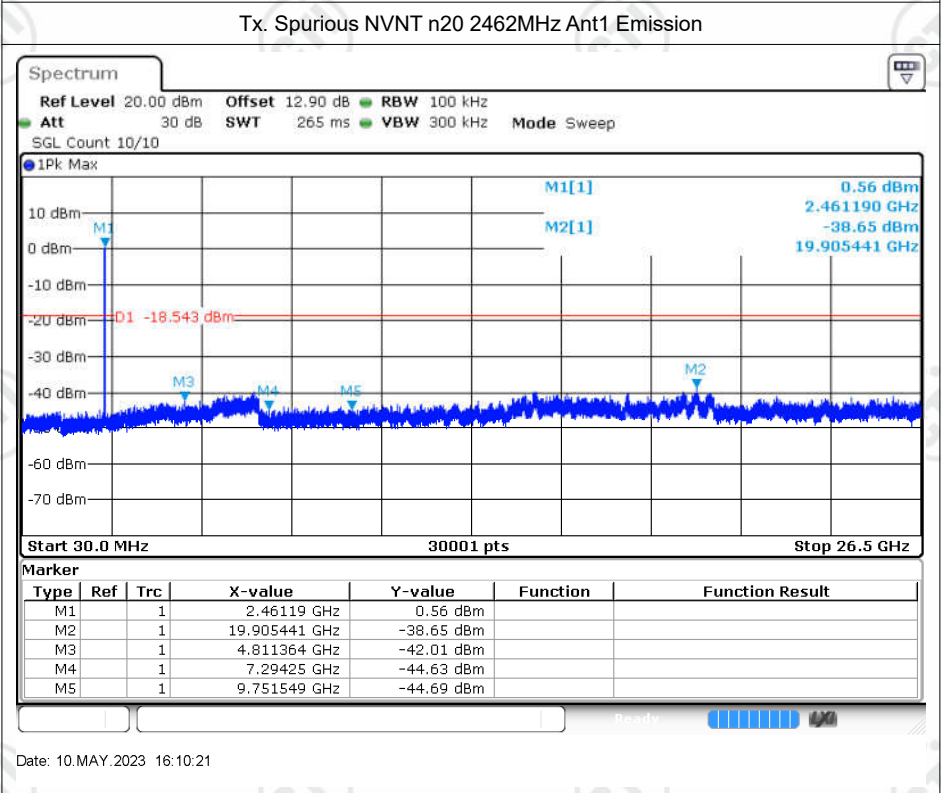
Date: 10.MAY.2023 16:05:02

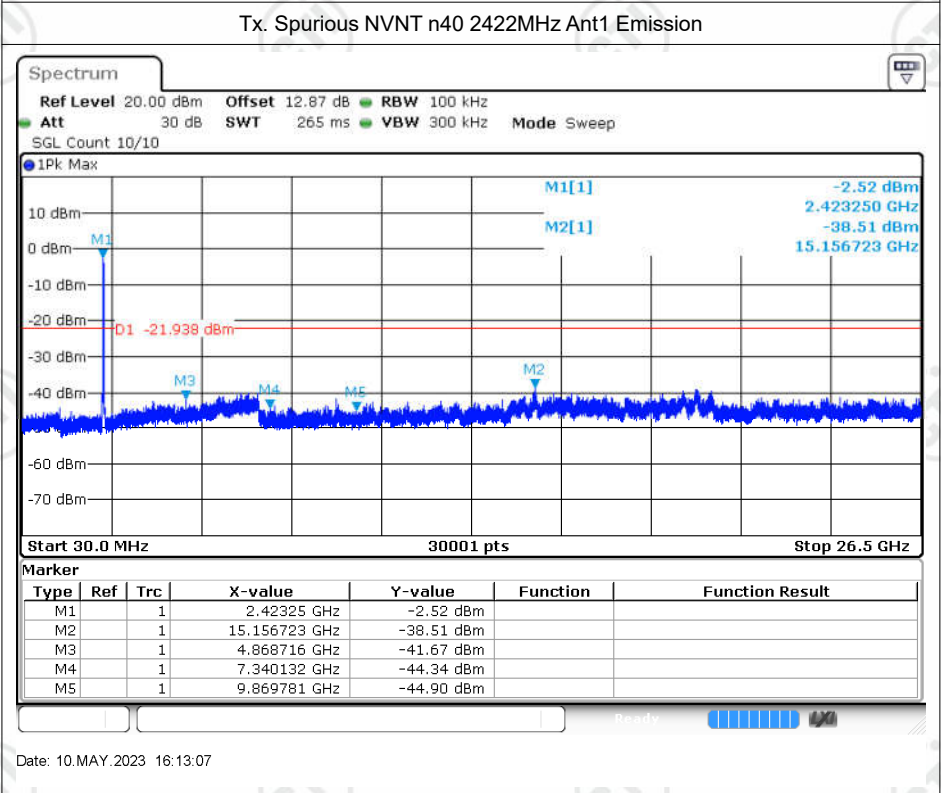
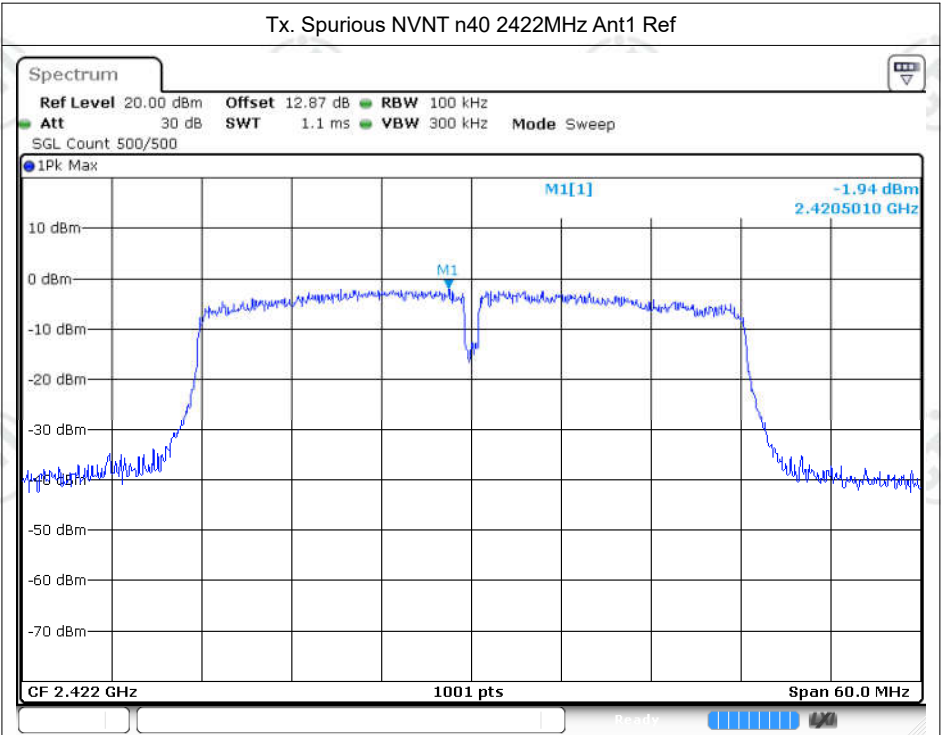


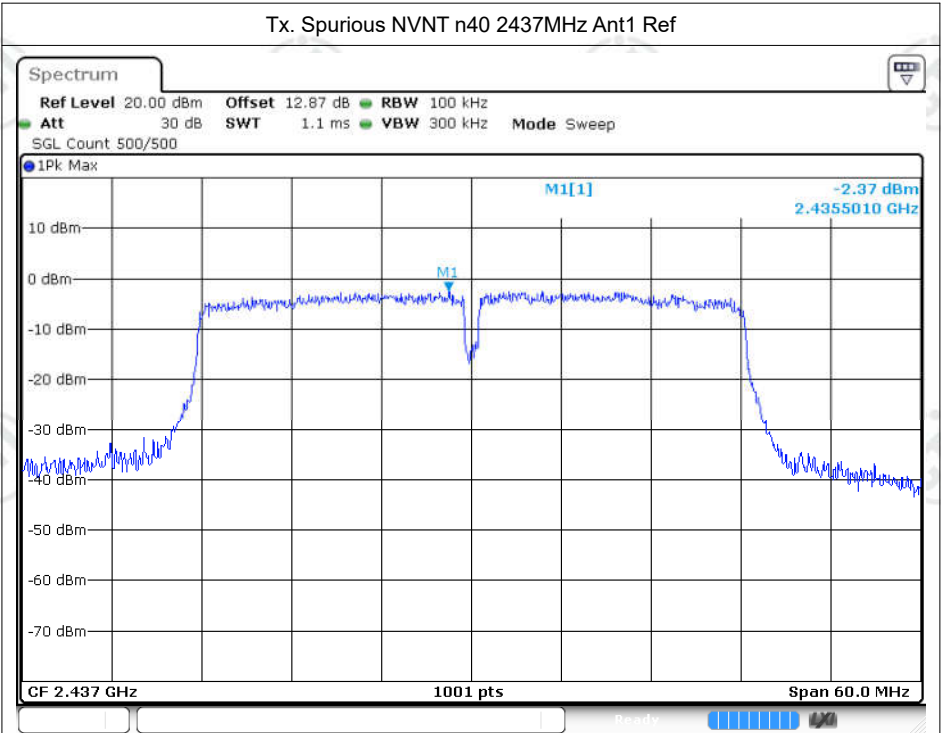
Date: 10.MAY.2023 16:05:13



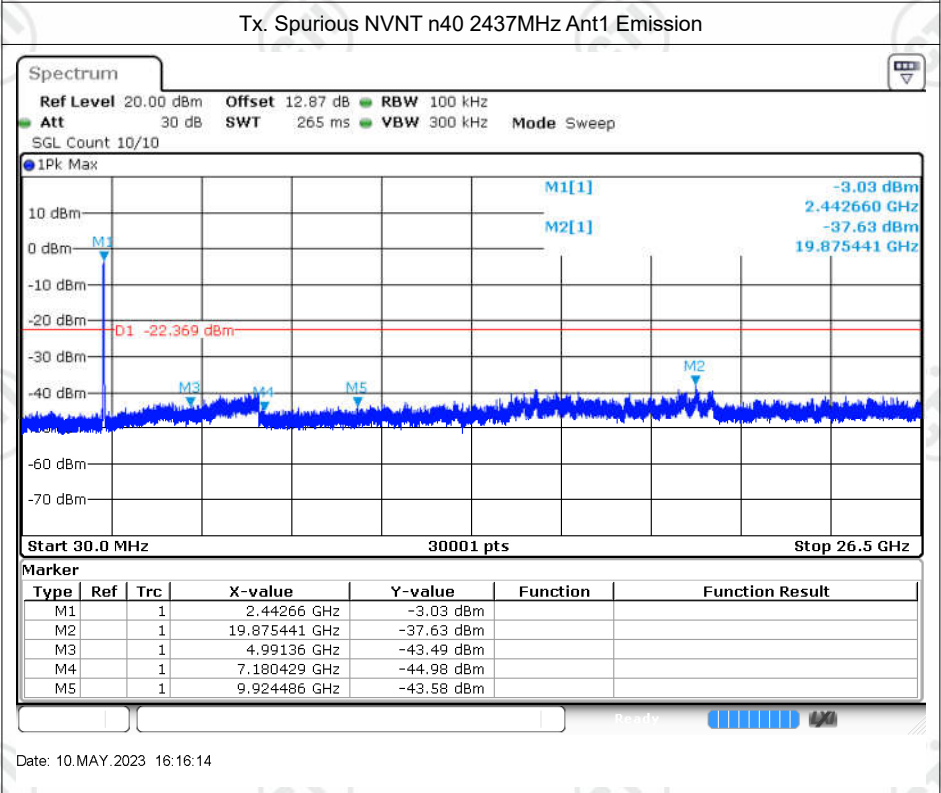
Date: 10.MAY.2023 16:10:10



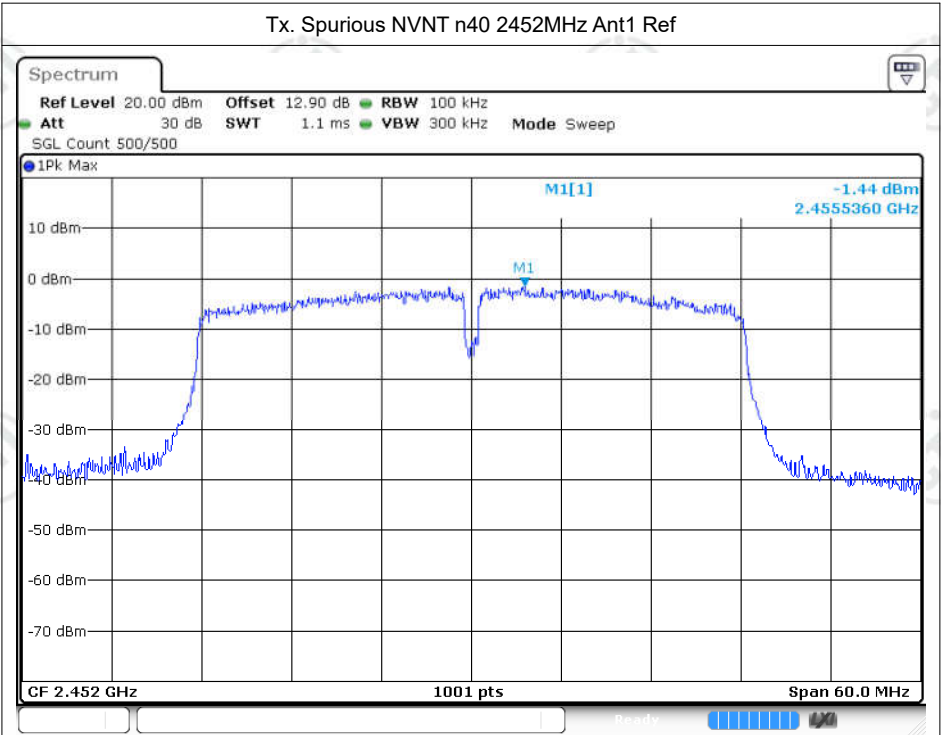




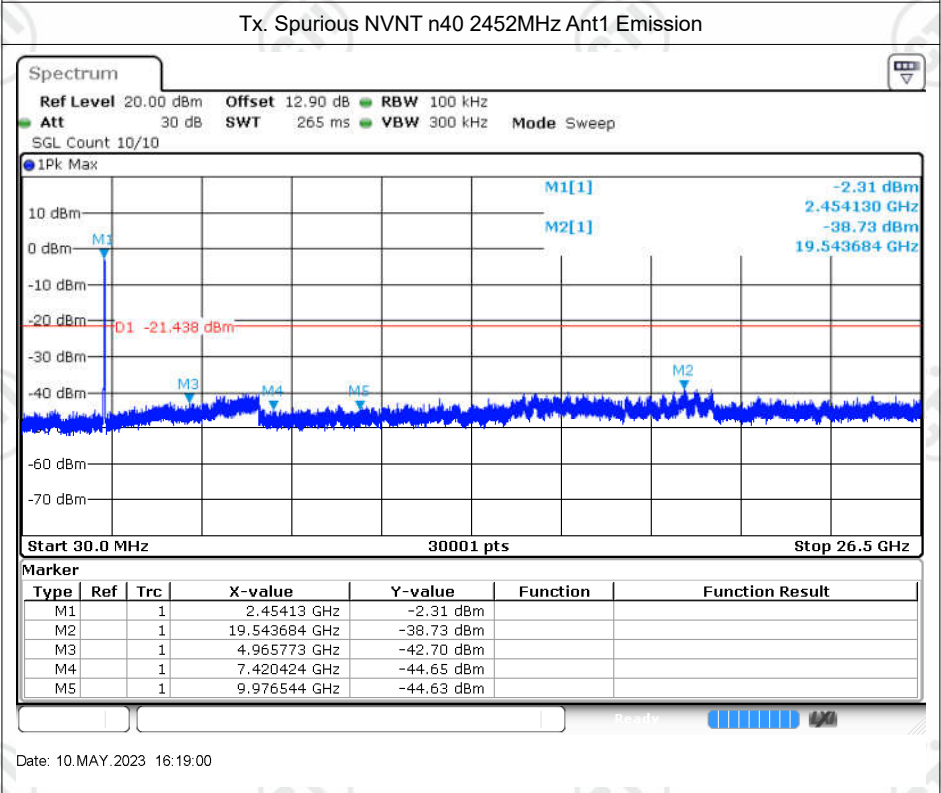
Date: 10.MAY.2023 16:16:03



Date: 10.MAY.2023 16:16:14



Date: 10.MAY.2023 16:18:49



Date: 10.MAY.2023 16:19:00

*** End of Report ***