

Appendix: 2.4G WIFI

Contents

Contents 2

Duty Cycle 3

Maximum Peak Conducted Output Power 16

-6dB Bandwidth 37

Occupied Channel Bandwidth 50

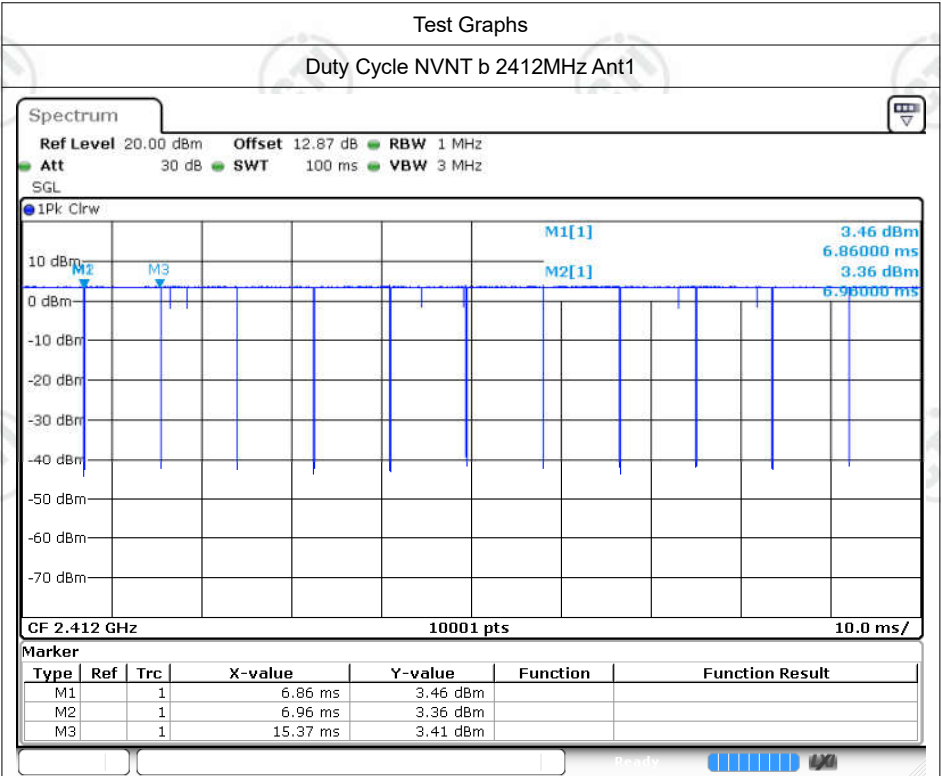
Maximum Power Spectral Density Level 63

Band Edge 83

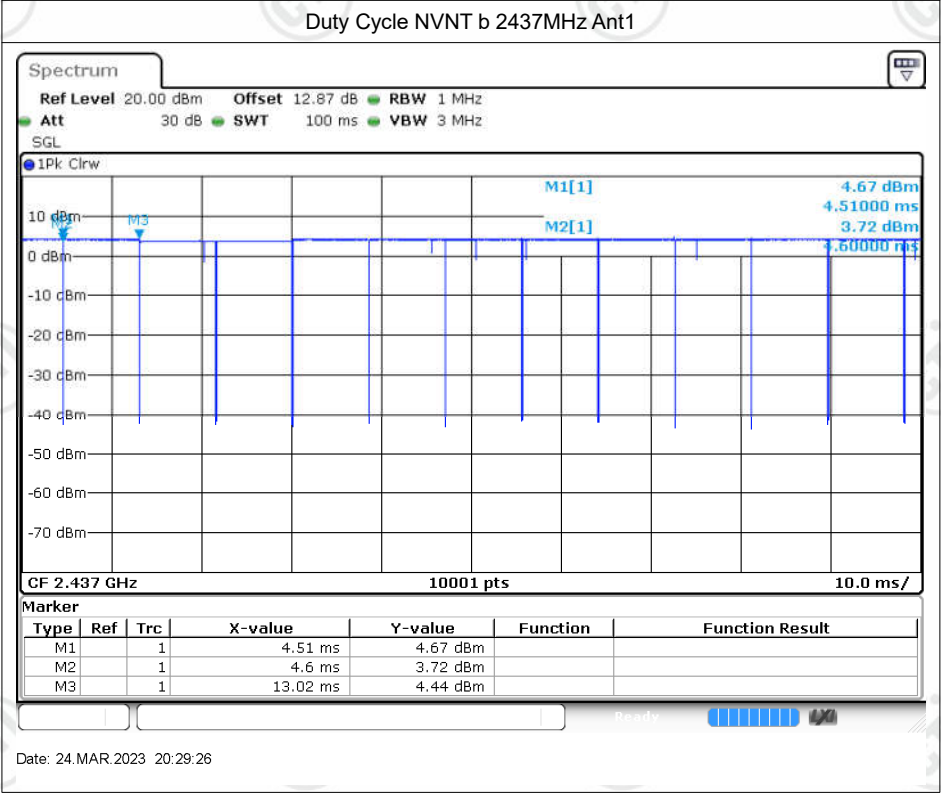
Conducted RF Spurious Emission 100

Duty Cycle

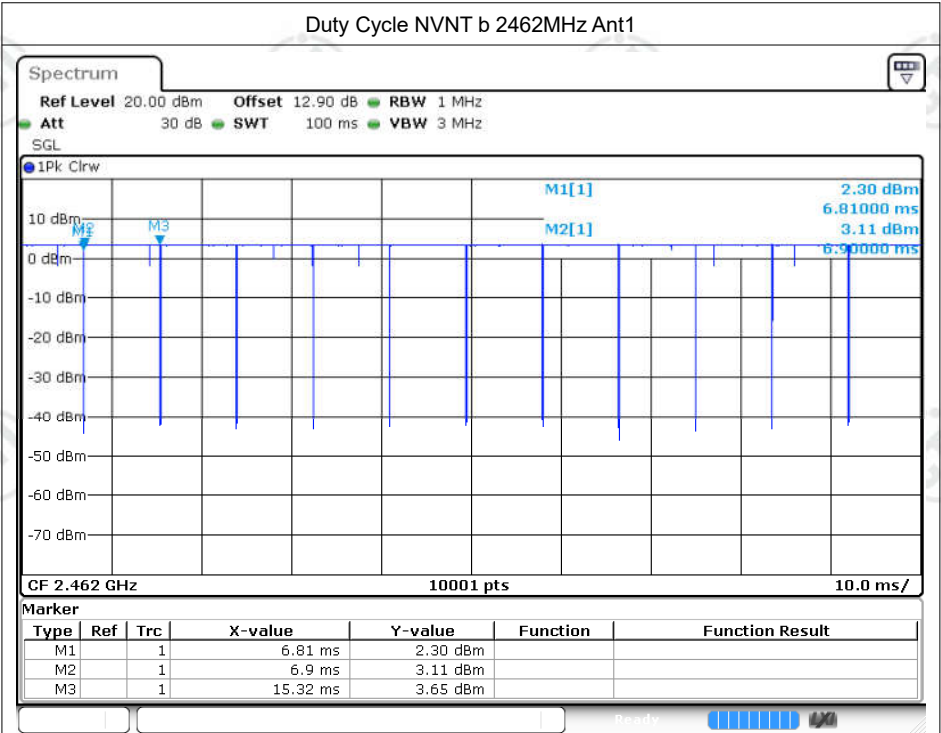
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	98.82	0	0.12
NVNT	b	2437	Ant1	98.94	0	0.12
NVNT	b	2462	Ant1	98.94	0	0.12
NVNT	b	2412	Ant2	98.82	0	0.12
NVNT	b	2437	Ant2	98.82	0	0.12
NVNT	b	2462	Ant2	98.94	0	0.12
NVNT	g	2412	Ant1	93.25	0.3	0.72
NVNT	g	2437	Ant1	93.38	0.3	0.72
NVNT	g	2462	Ant1	93.32	0.3	0.72
NVNT	g	2412	Ant2	93.31	0.3	0.72
NVNT	g	2437	Ant2	93.31	0.3	0.72
NVNT	g	2462	Ant2	93.31	0.3	0.72
NVNT	n20	2412	Ant1	92.91	0.32	0.76
NVNT	n20	2437	Ant1	92.55	0.34	0.77
NVNT	n20	2462	Ant1	92.88	0.32	0.77
NVNT	n20	2412	Ant2	92.88	0.32	0.77
NVNT	n20	2437	Ant2	92.88	0.32	0.77
NVNT	n20	2462	Ant2	92.88	0.32	0.77
NVNT	ax20	2412	Ant1	90.71	0.42	0.98
NVNT	ax20	2437	Ant1	90	0.46	0.99
NVNT	ax20	2462	Ant1	90	0.46	0.99
NVNT	ax20	2412	Ant2	90.71	0.42	0.98
NVNT	ax20	2437	Ant2	90.71	0.42	0.98
NVNT	ax20	2462	Ant2	90	0.46	0.99



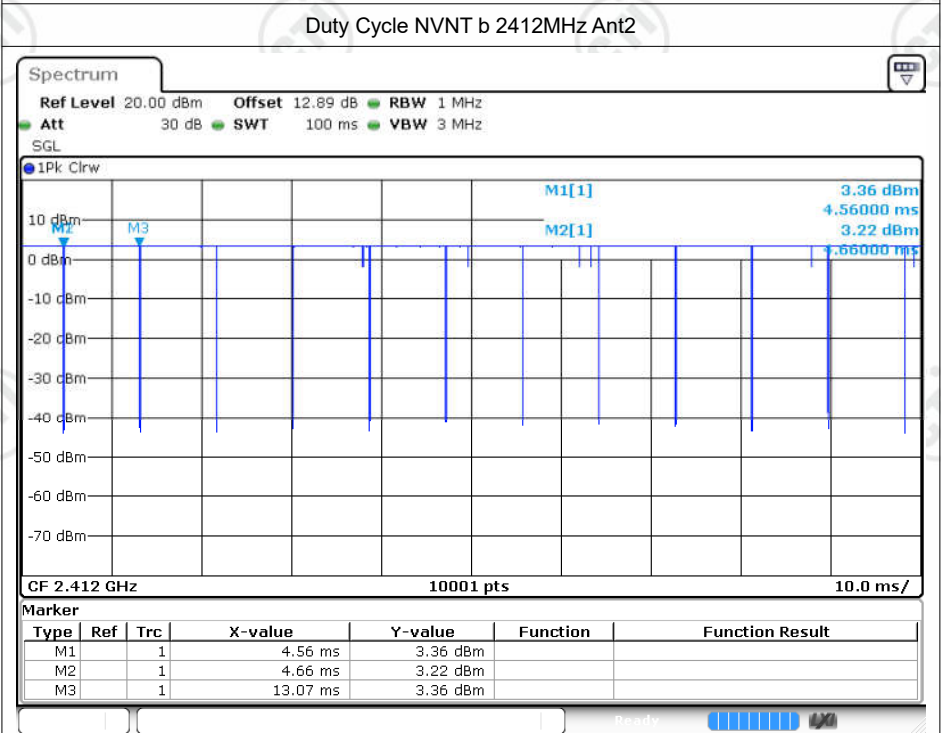
Date: 24.MAR.2023 20:23:31



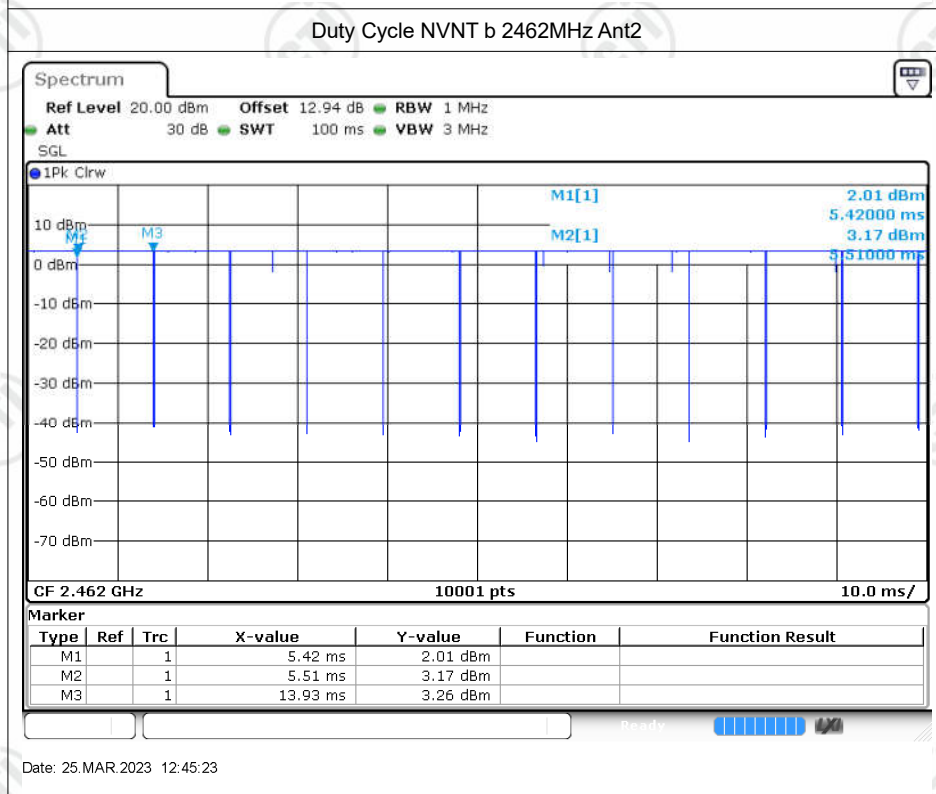
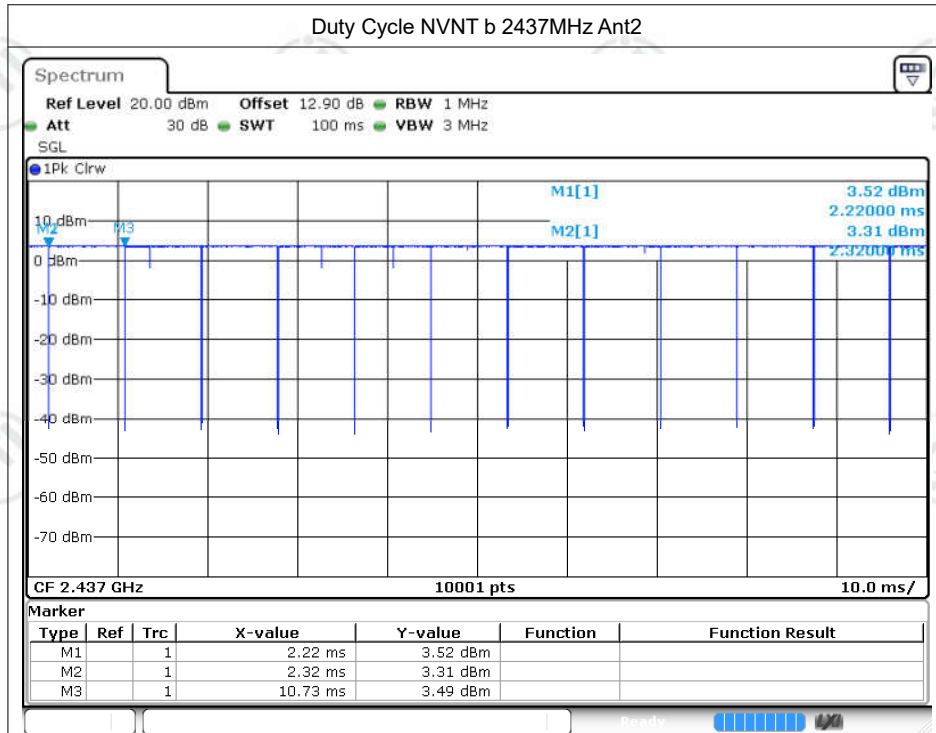
Date: 24.MAR.2023 20:29:26

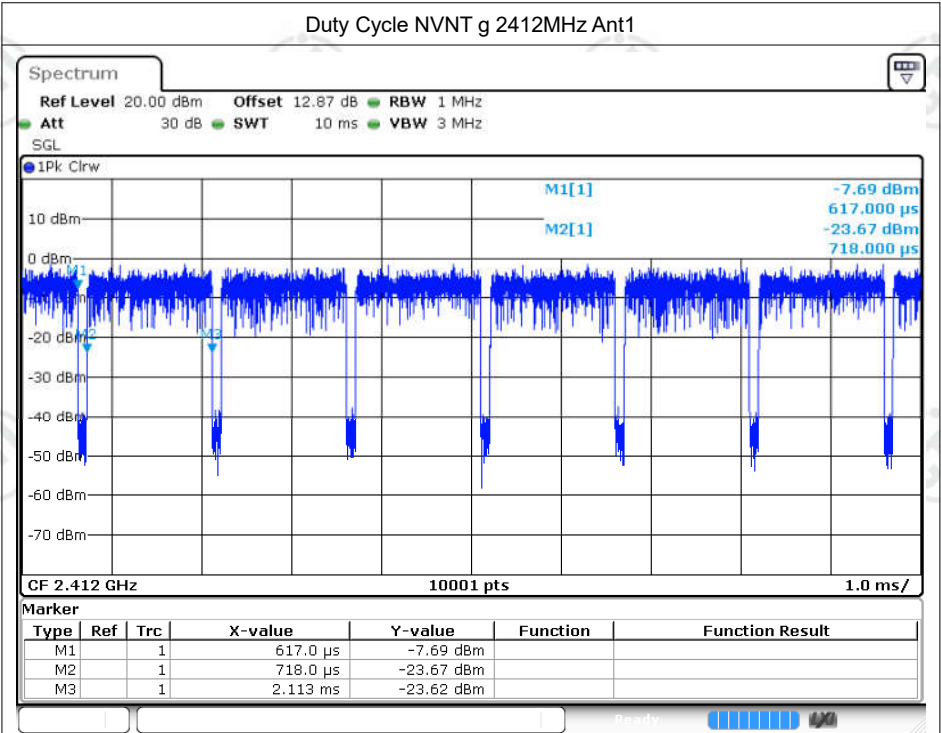


Date: 24.MAR 2023 20:32:06

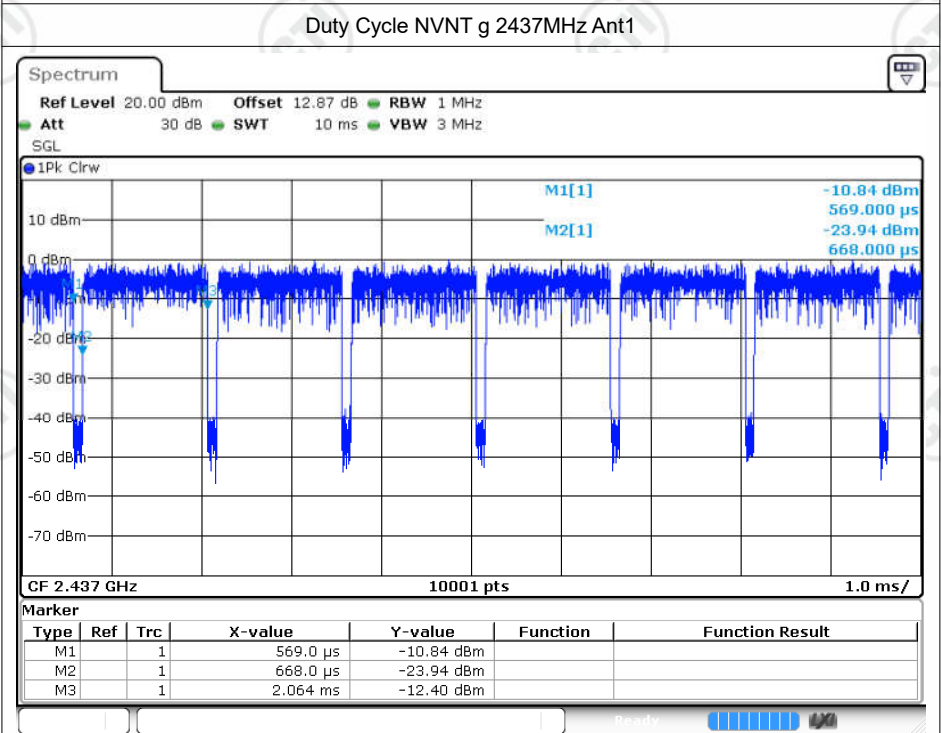


Date: 25.MAR 2023 12:38:45

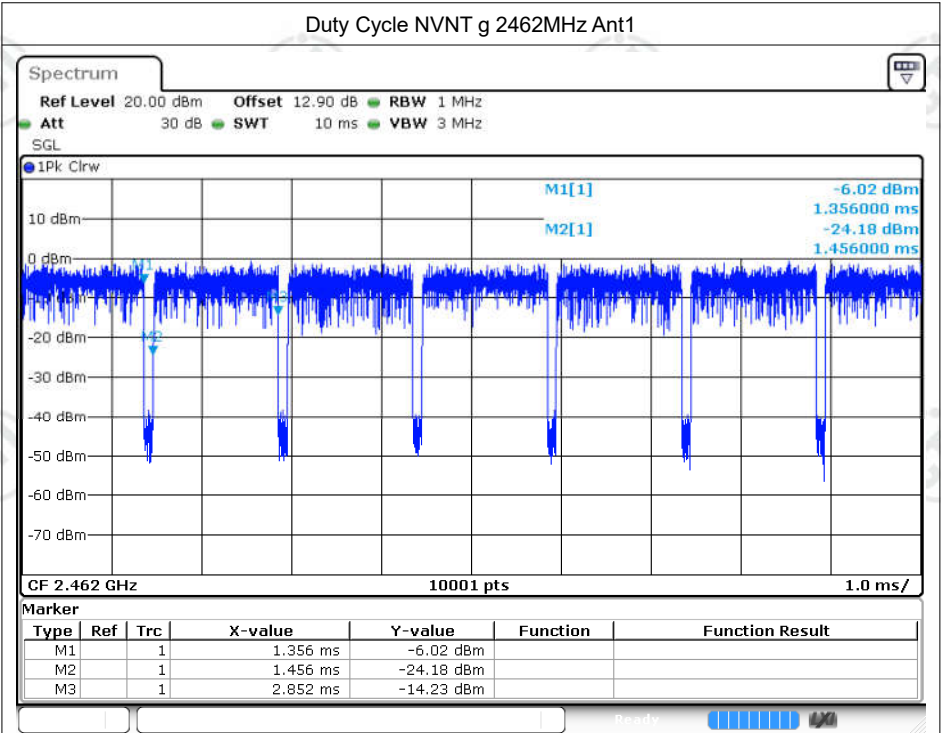




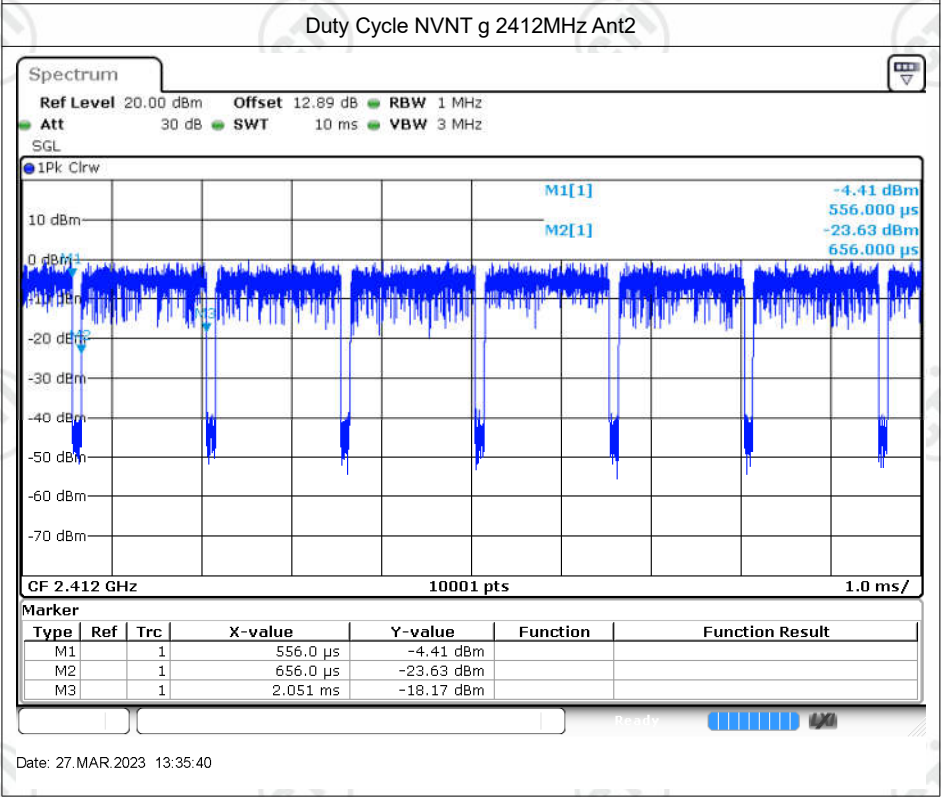
Date: 27.MAR.2023 13:36:05



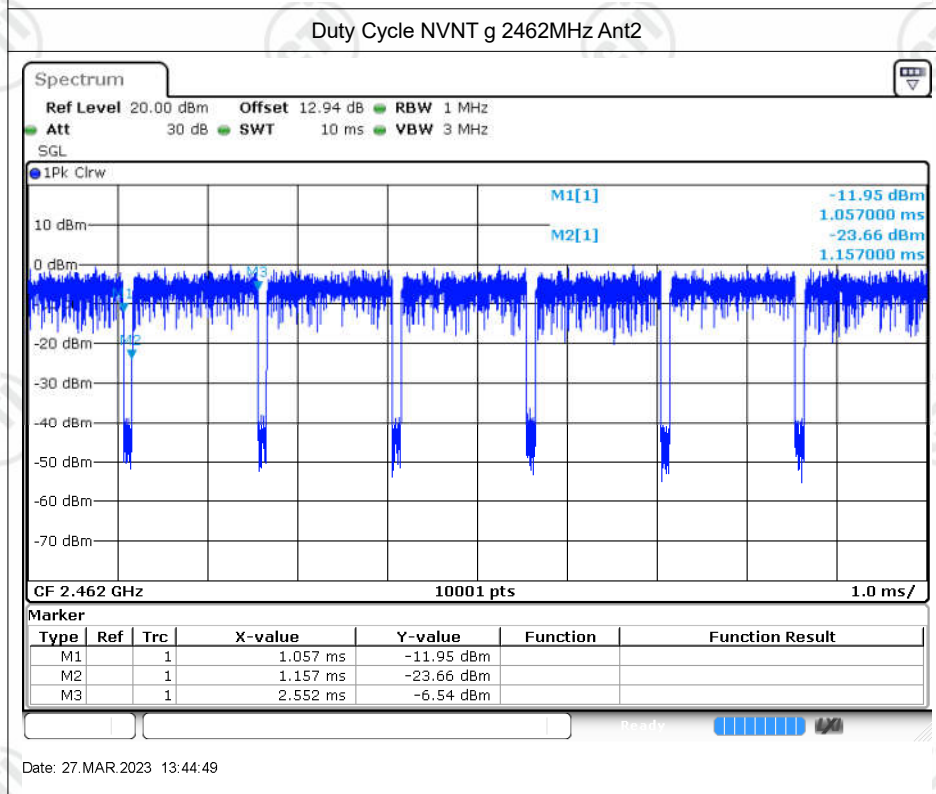
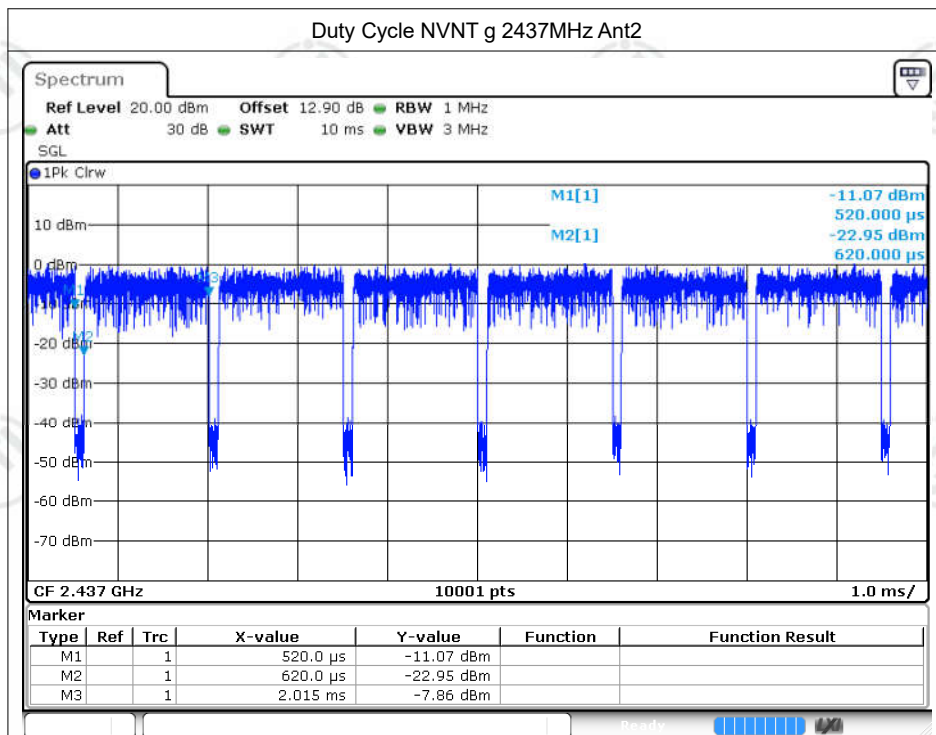
Date: 27.MAR.2023 13:38:00

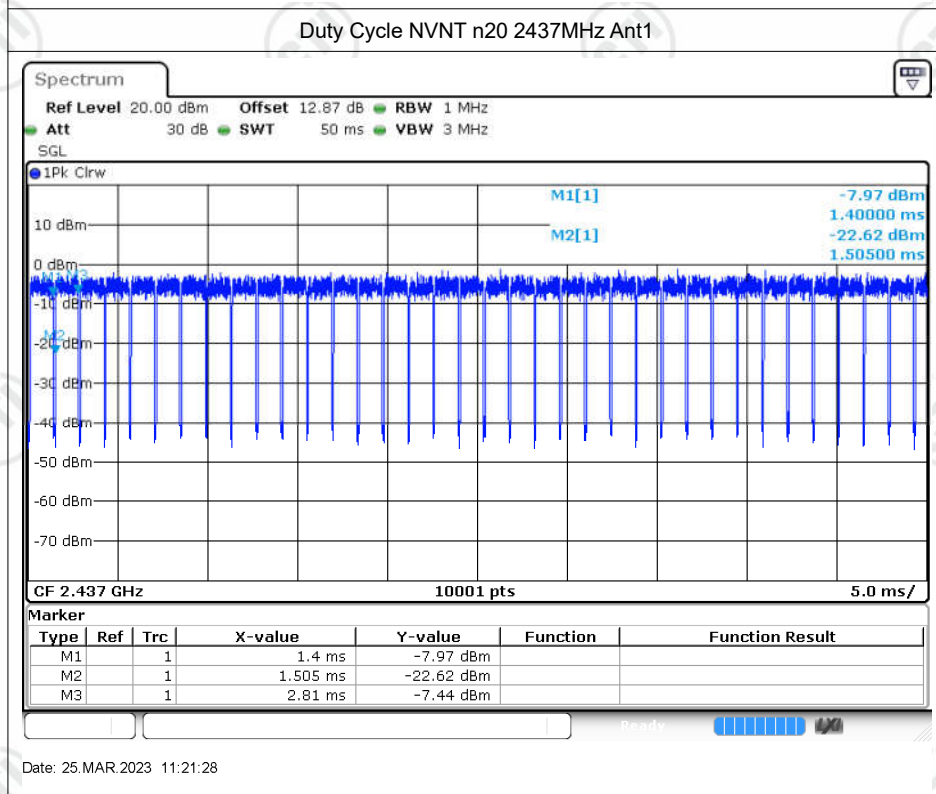
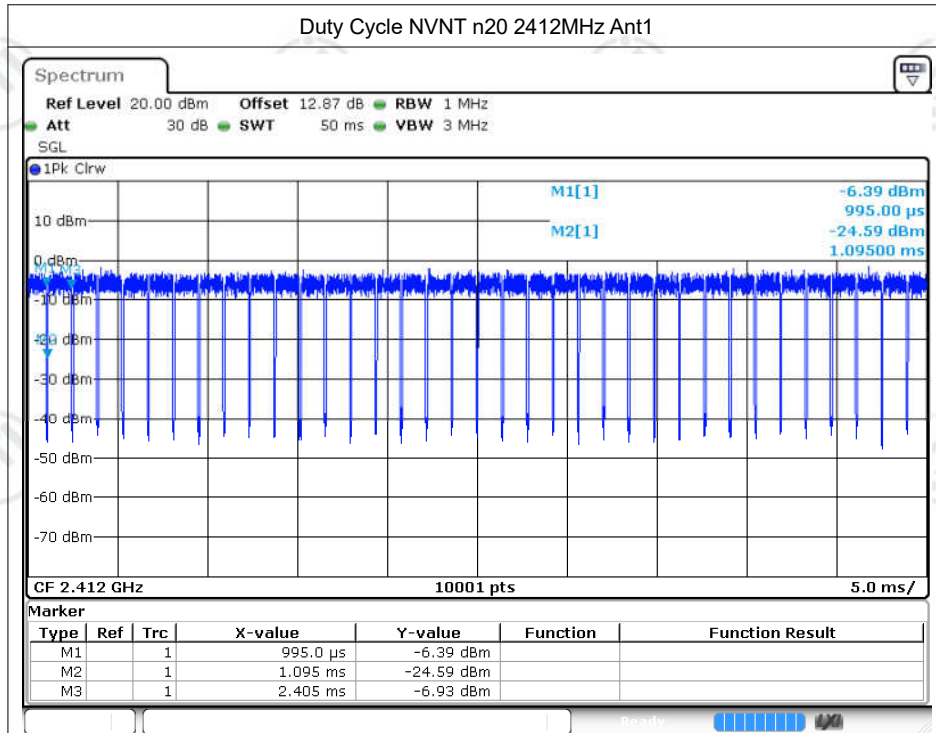


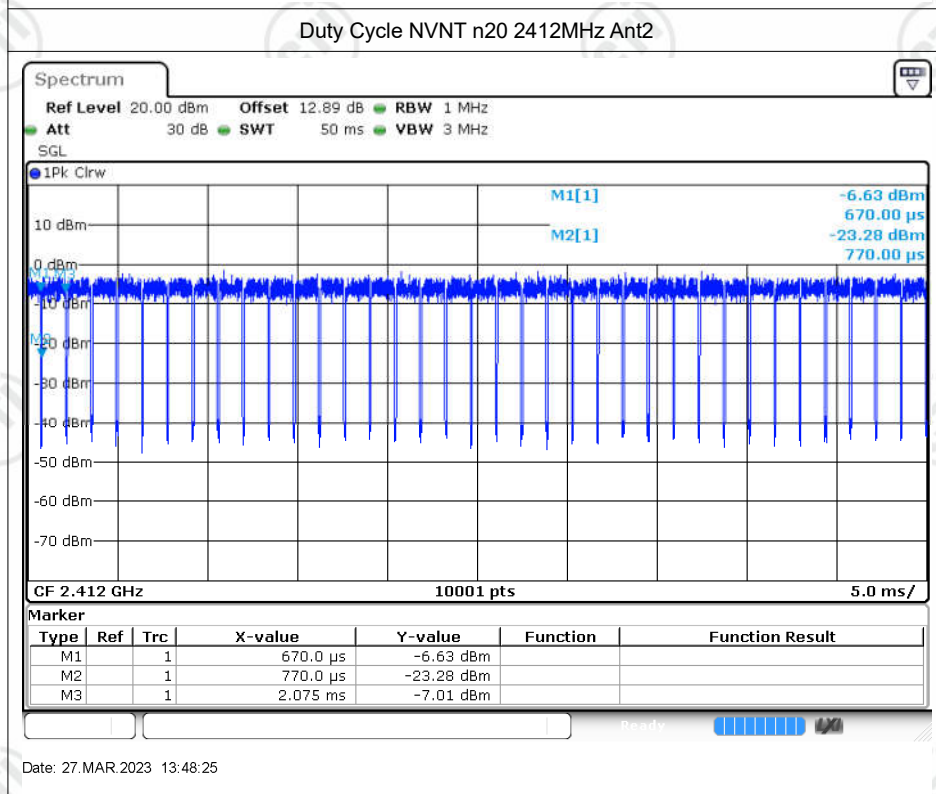
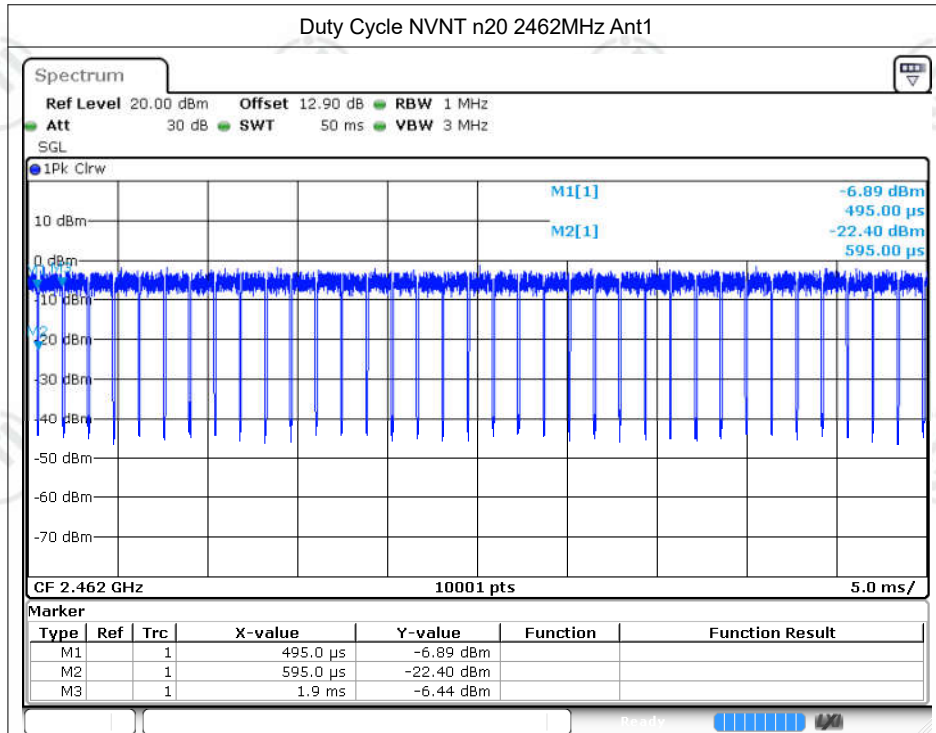
Date: 27.MAR.2023 13:39:39

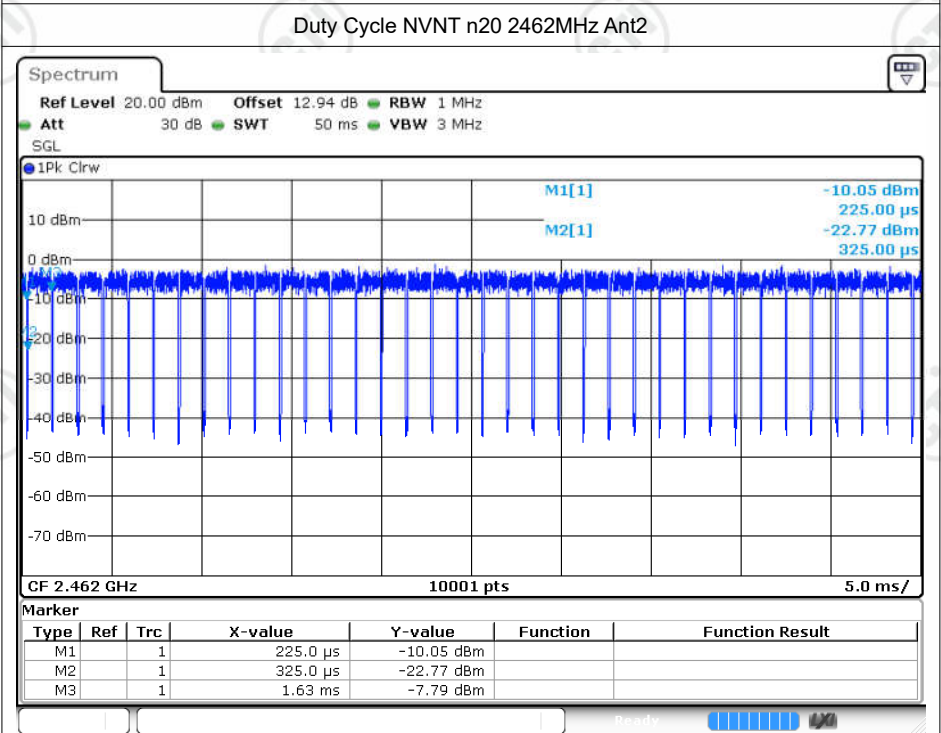
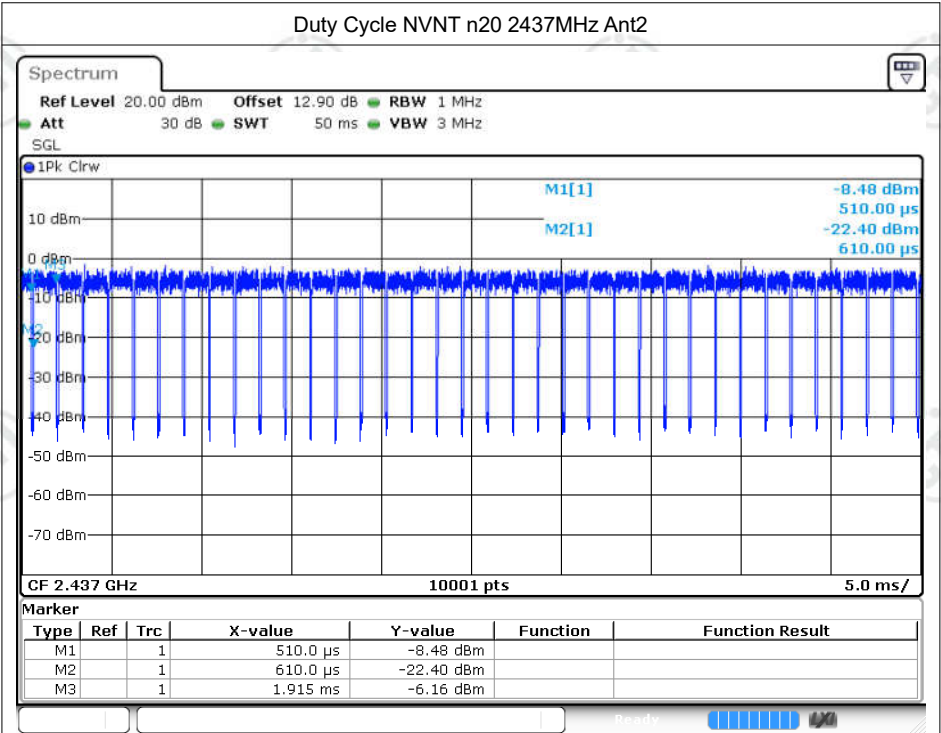


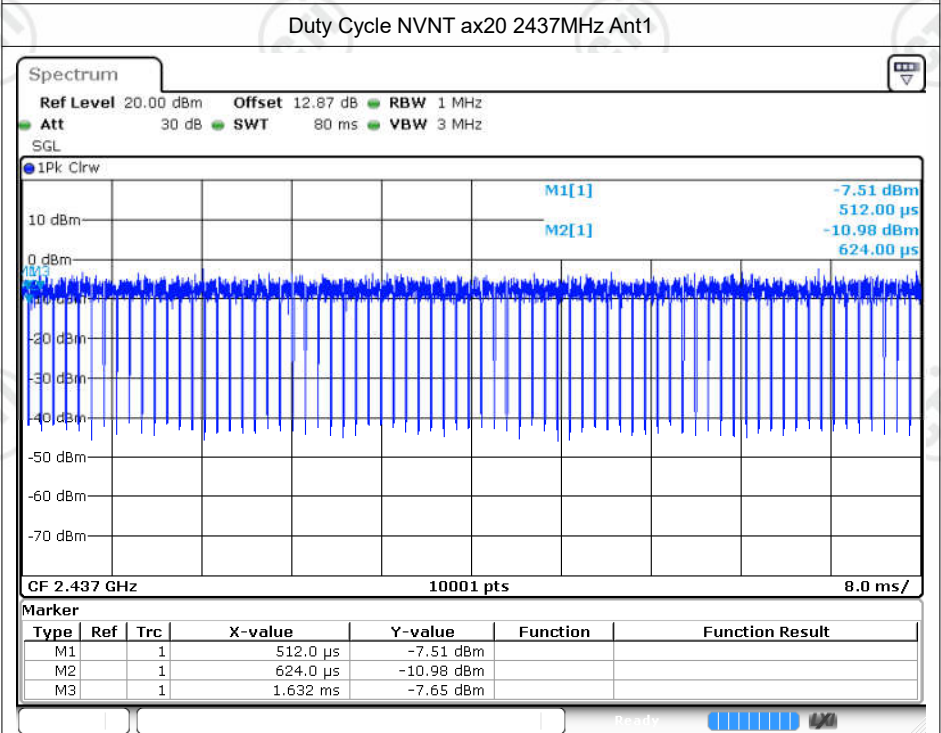
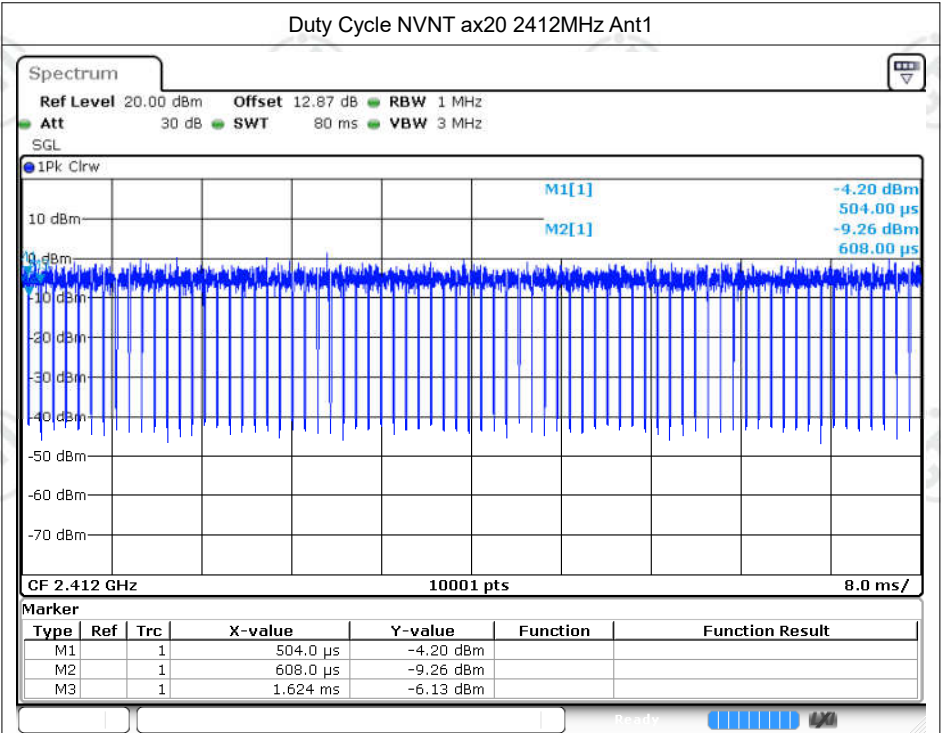
Date: 27.MAR.2023 13:35:40

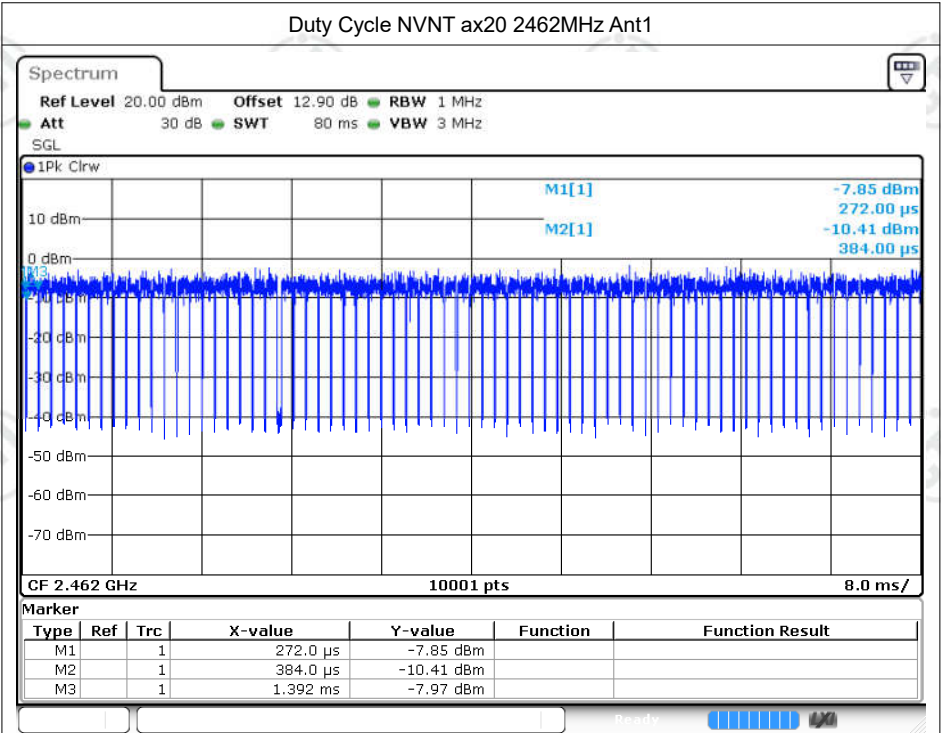




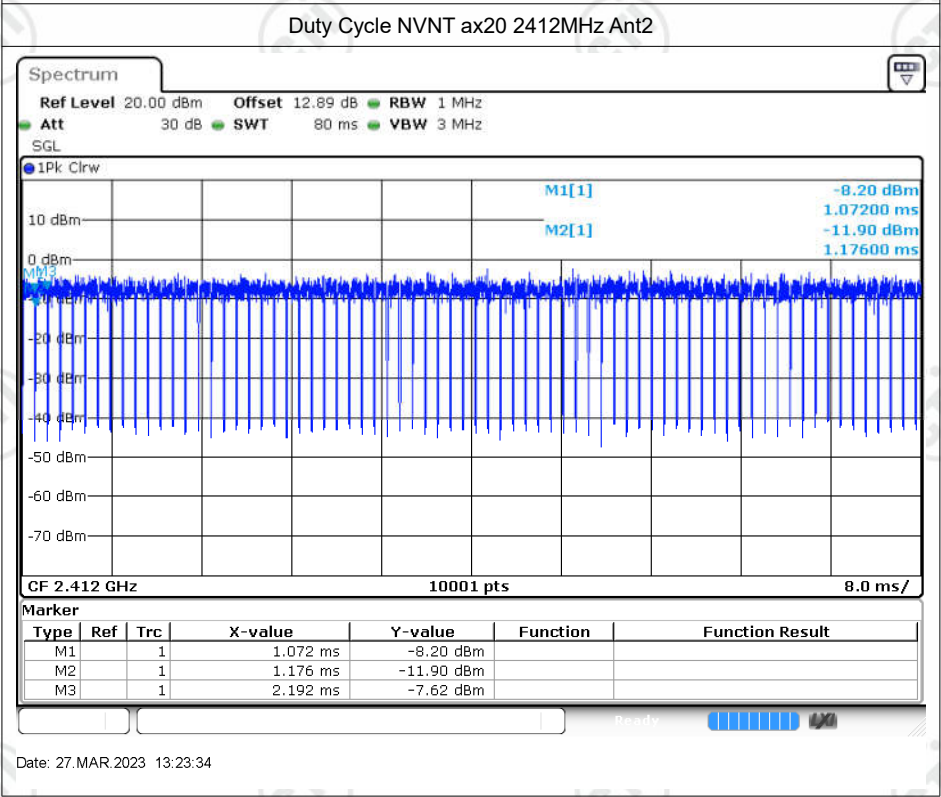




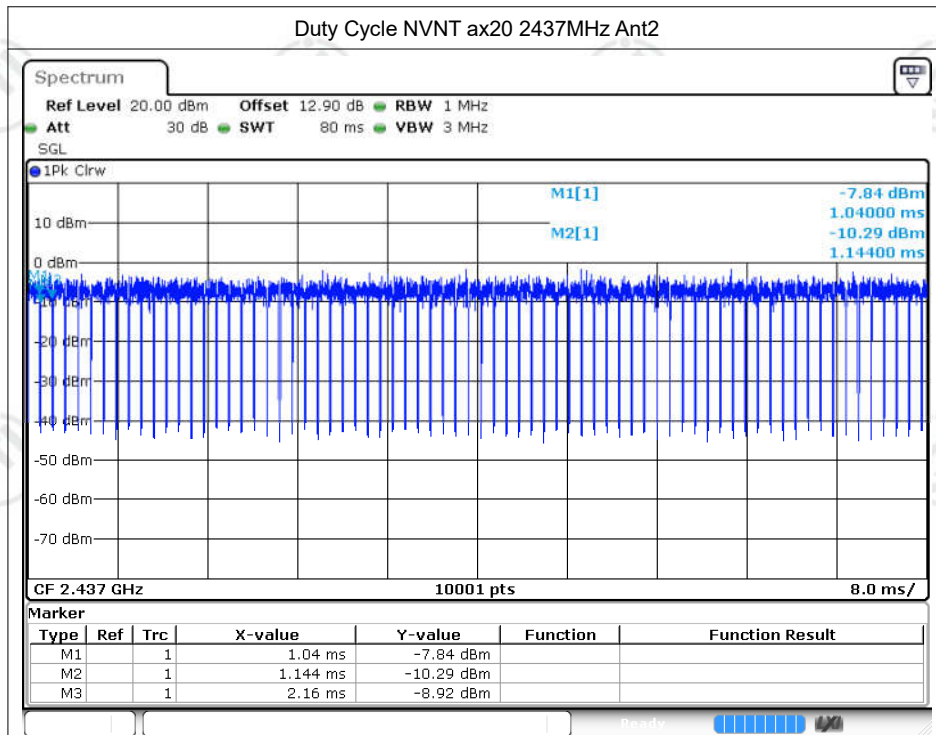




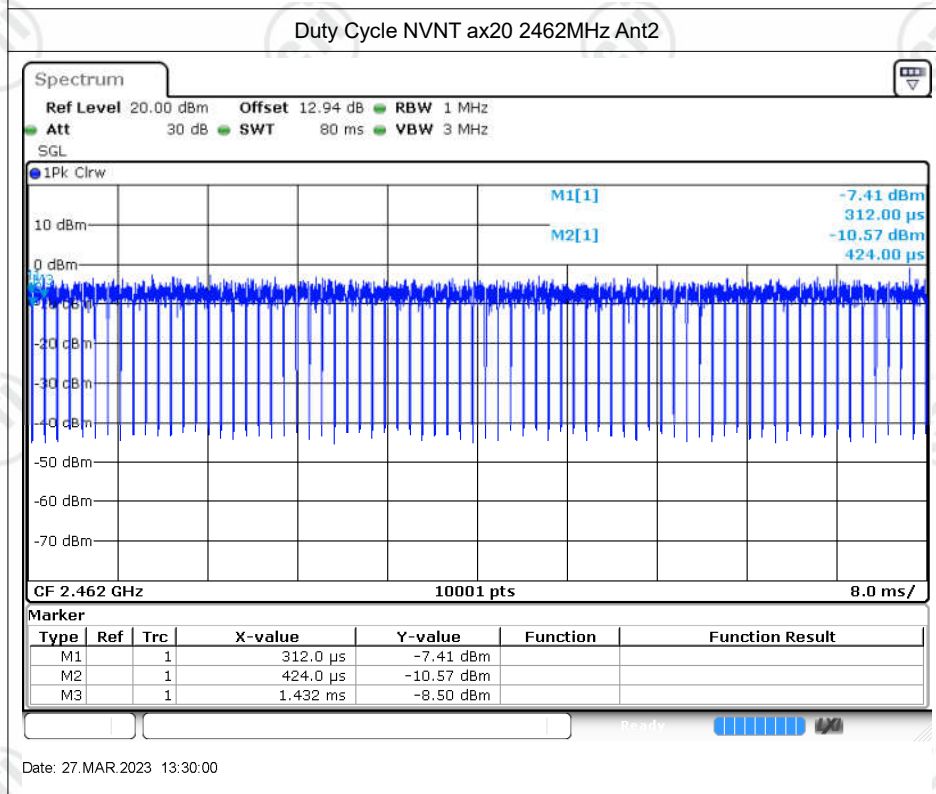
Date: 27.MAR.2023 13:16:47



Date: 27.MAR.2023 13:23:34



Date: 27.MAR.2023 13:27:57

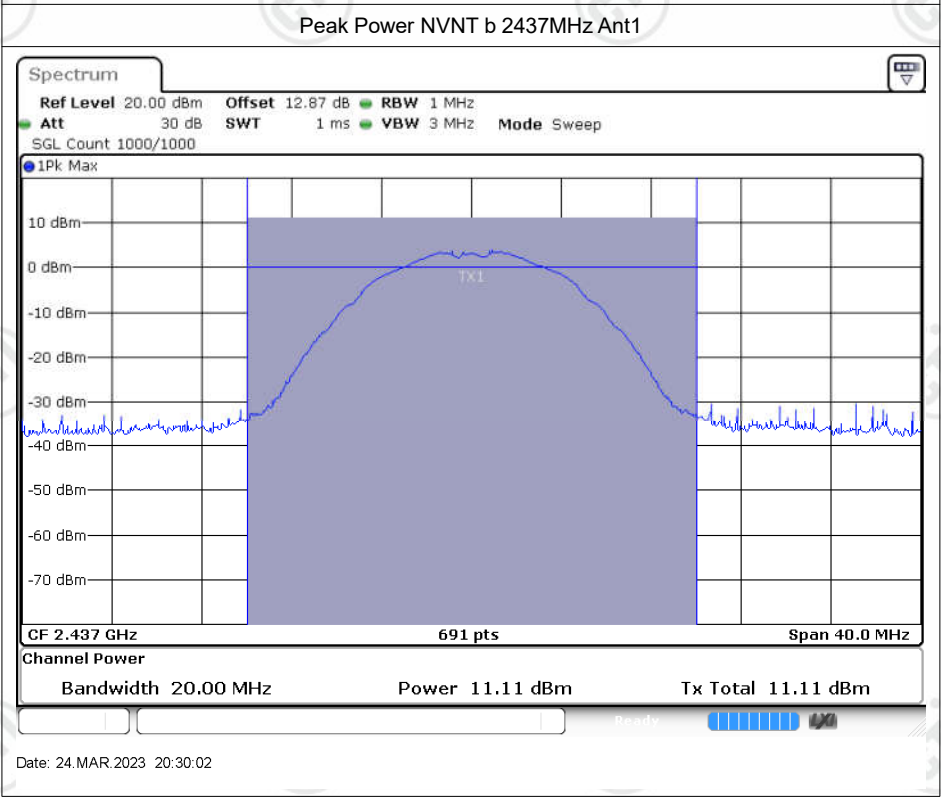
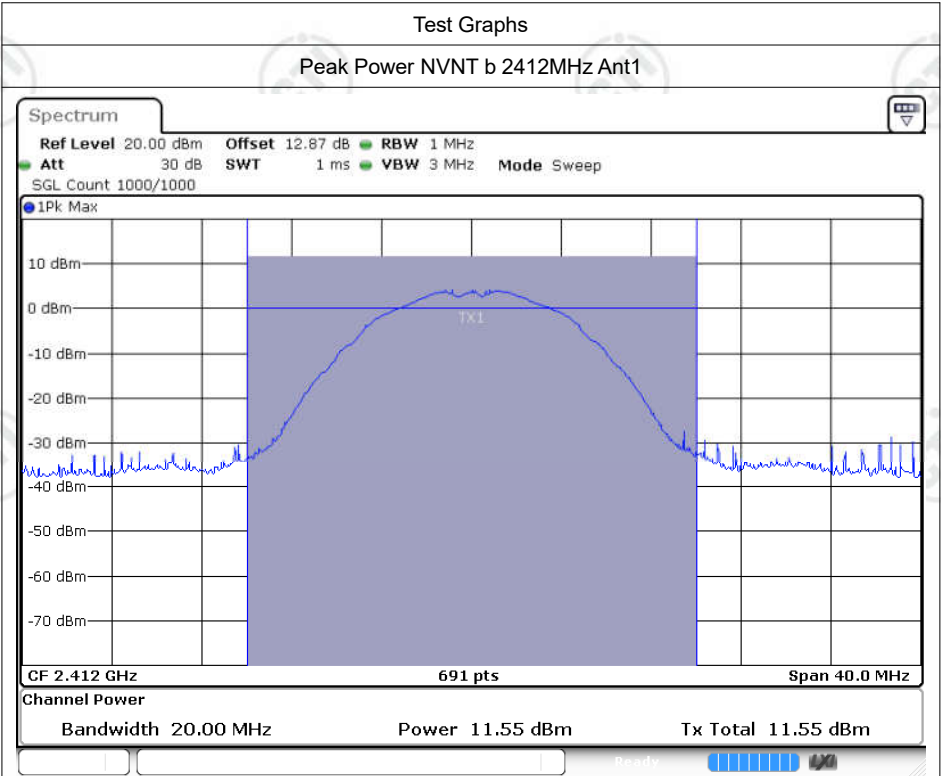


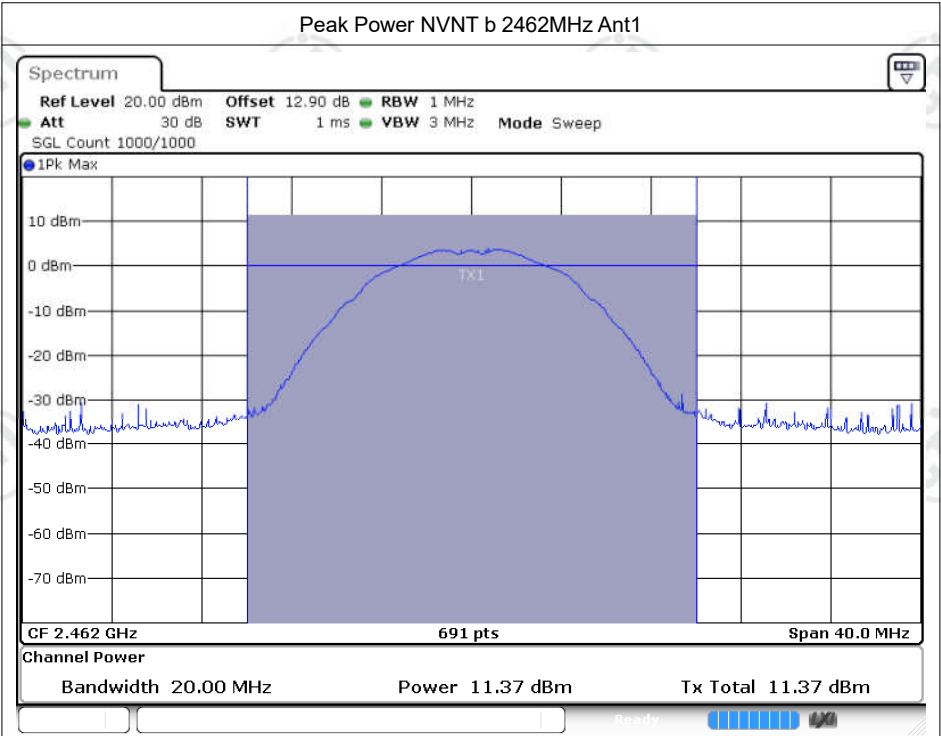
Date: 27.MAR.2023 13:30:00

Maximum Peak Conducted Output Power

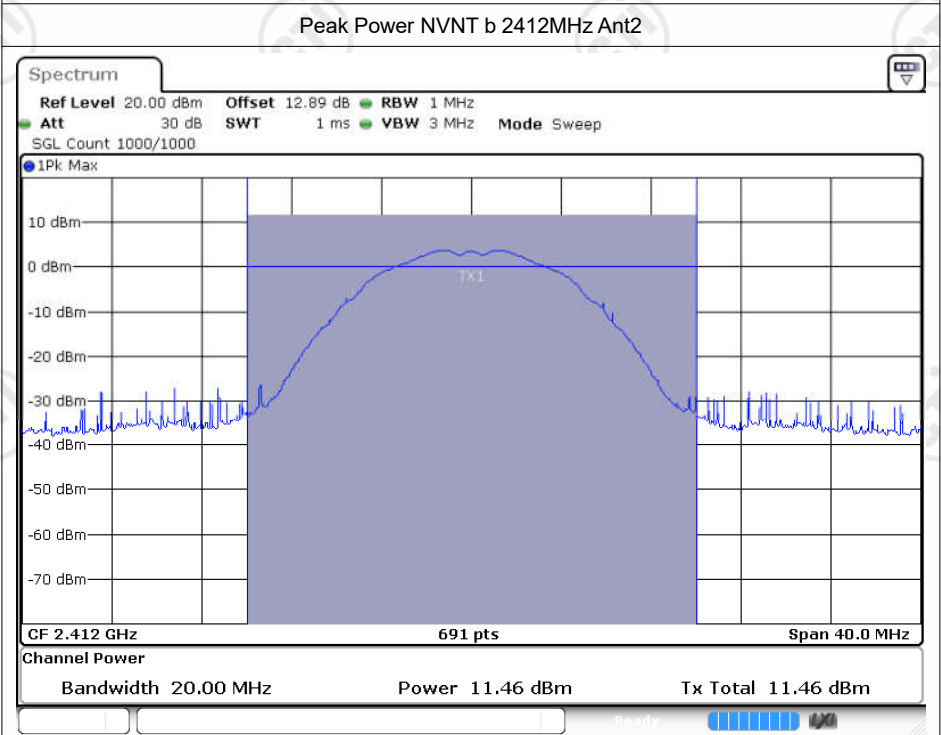
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	11.55	0	11.55	30	Pass
NVNT	b	2437	Ant1	11.11	0	11.11	30	Pass
NVNT	b	2462	Ant1	11.37	0	11.37	30	Pass
NVNT	b	2412	Ant2	11.46	0	11.46	30	Pass
NVNT	b	2437	Ant2	11.38	0	11.38	30	Pass
NVNT	b	2462	Ant2	11.49	0	11.49	30	Pass
NVNT	g	2412	Ant1	10.8	0	10.8	30	Pass
NVNT	g	2437	Ant1	10.16	0	10.16	30	Pass
NVNT	g	2462	Ant1	10.73	0	10.73	30	Pass
NVNT	g	2412	Ant2	10.44	0	10.44	30	Pass
NVNT	g	2437	Ant2	10.77	0	10.77	30	Pass
NVNT	g	2462	Ant2	10.78	0	10.78	30	Pass
NVNT	n20	2412	Ant1	9.11	0	9.11	30	Pass
NVNT	n20	2437	Ant1	9.35	0	9.35	30	Pass
NVNT	n20	2462	Ant1	9.39	0	9.39	30	Pass
NVNT	n20	2412	Ant2	8.9	0	8.9	30	Pass
NVNT	n20	2437	Ant2	9.22	0	9.22	30	Pass
NVNT	n20	2462	Ant2	8.62	0	8.62	30	Pass
NVNT	n20	2412	Ant1	8.8	0	8.8	30	Pass
NVNT	n20	2412	Ant2	6.22	0	6.22	30	Pass
NVNT	n20	2412	Sum	10.71	0	10.71	30	Pass
NVNT	n20	2437	Ant1	9.65	0	9.65	30	Pass
NVNT	n20	2437	Ant2	5.88	0	5.88	30	Pass
NVNT	n20	2437	Sum	11.17	0	11.17	30	Pass
NVNT	n20	2462	Ant1	9.74	0	9.74	30	Pass
NVNT	n20	2462	Ant2	5.45	0	5.45	30	Pass
NVNT	n20	2462	Sum	11.11	0	11.11	30	Pass
NVNT	ax20	2412	Ant1	8.08	0	8.08	30	Pass
NVNT	ax20	2437	Ant1	7.69	0	7.69	30	Pass
NVNT	ax20	2462	Ant1	8.19	0	8.19	30	Pass
NVNT	ax20	2412	Ant2	7.71	0	7.71	30	Pass
NVNT	ax20	2437	Ant2	8.11	0	8.11	30	Pass
NVNT	ax20	2462	Ant2	7.93	0	7.93	30	Pass
NVNT	ax20	2412	Ant1	8.82	0	8.82	30	Pass
NVNT	ax20	2412	Ant2	6.07	0	6.07	30	Pass
NVNT	ax20	2412	Sum	10.67	0	10.67	30	Pass
NVNT	ax20	2437	Ant1	9.49	0	9.49	30	Pass

NVNT	ax20	2437	Ant2	5.69	0	5.69	30	Pass
NVNT	ax20	2437	Sum	11	0	11	30	Pass
NVNT	ax20	2462	Ant1	9.96	0	9.96	30	Pass
NVNT	ax20	2462	Ant2	5.28	0	5.28	30	Pass
NVNT	ax20	2462	Sum	11.23	0	11.23	30	Pass

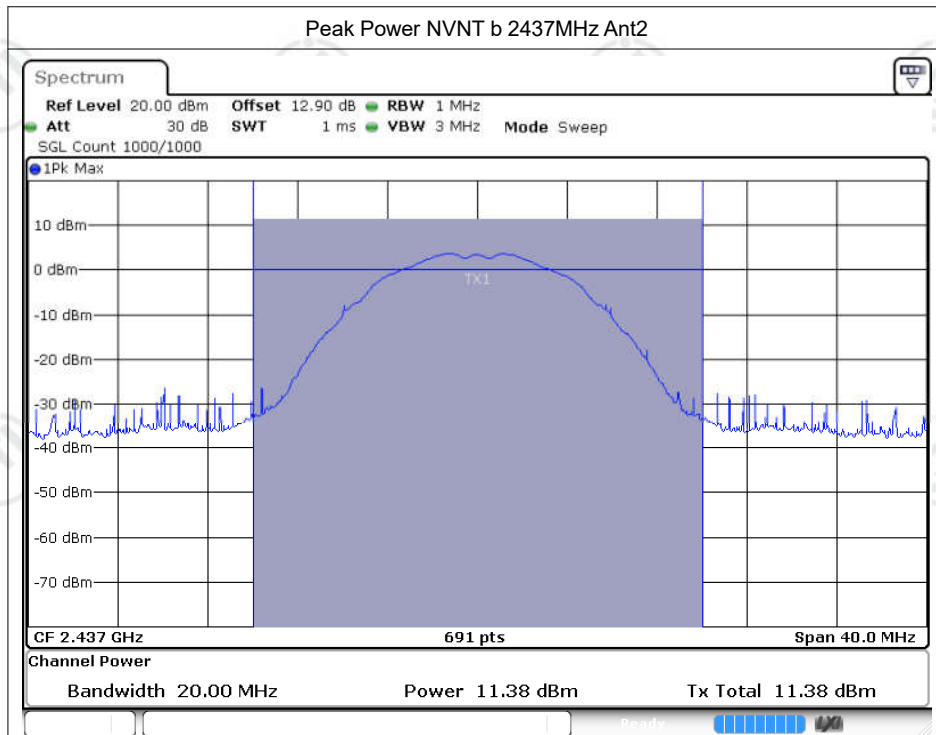




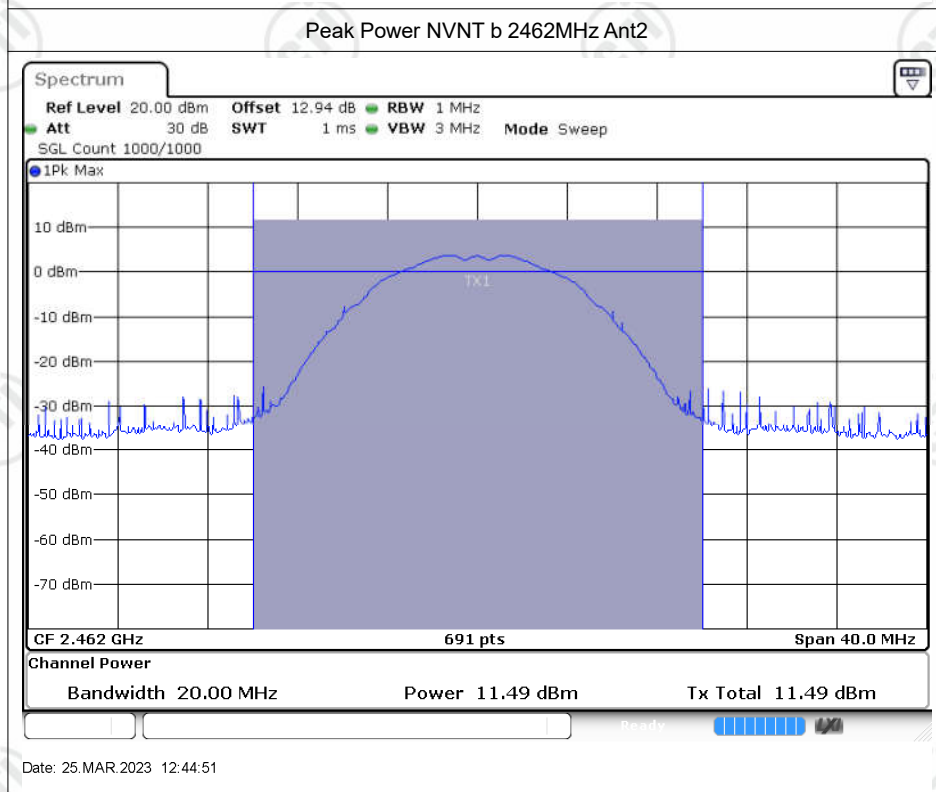
Date: 24.MAR 2023 20:32:11



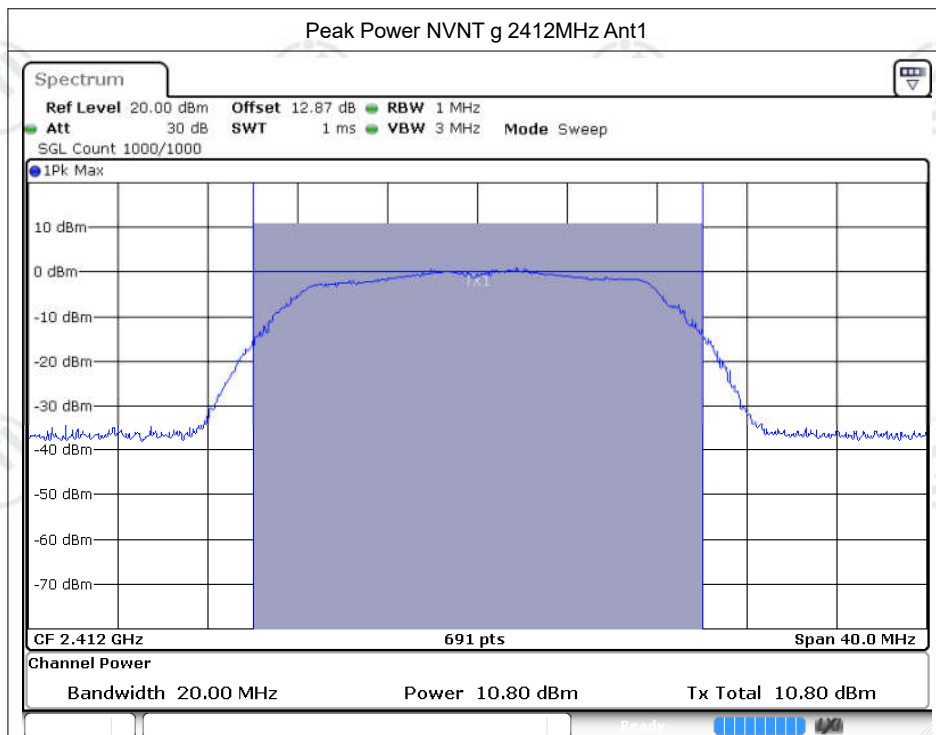
Date: 25.MAR 2023 12:37:59



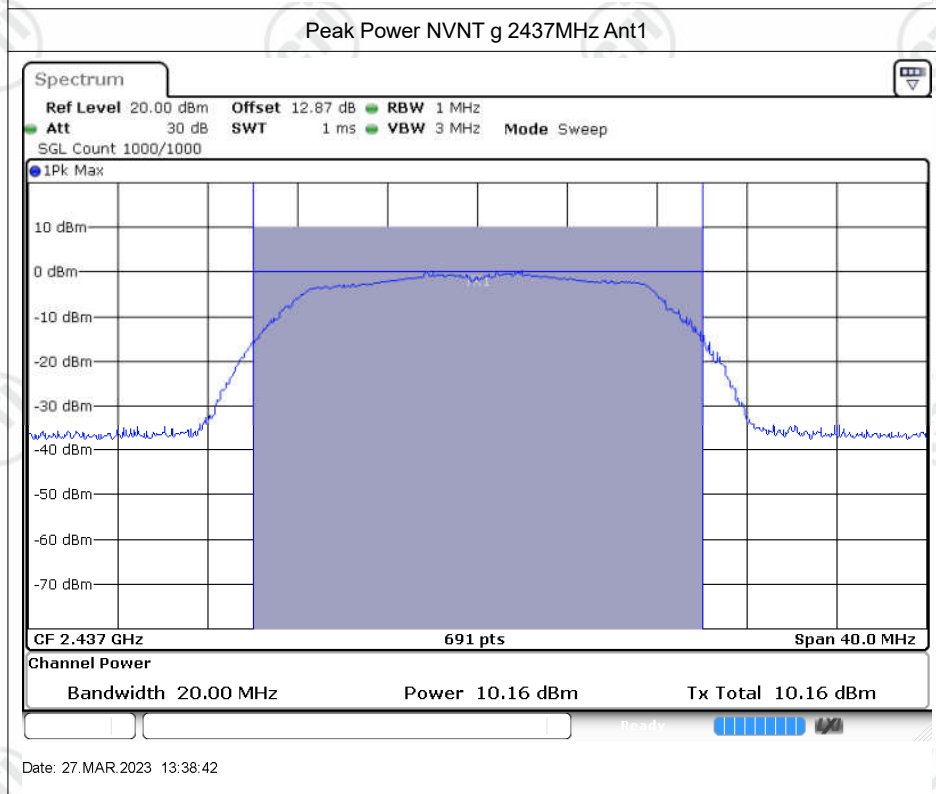
Date: 25.MAR.2023 12:40:30



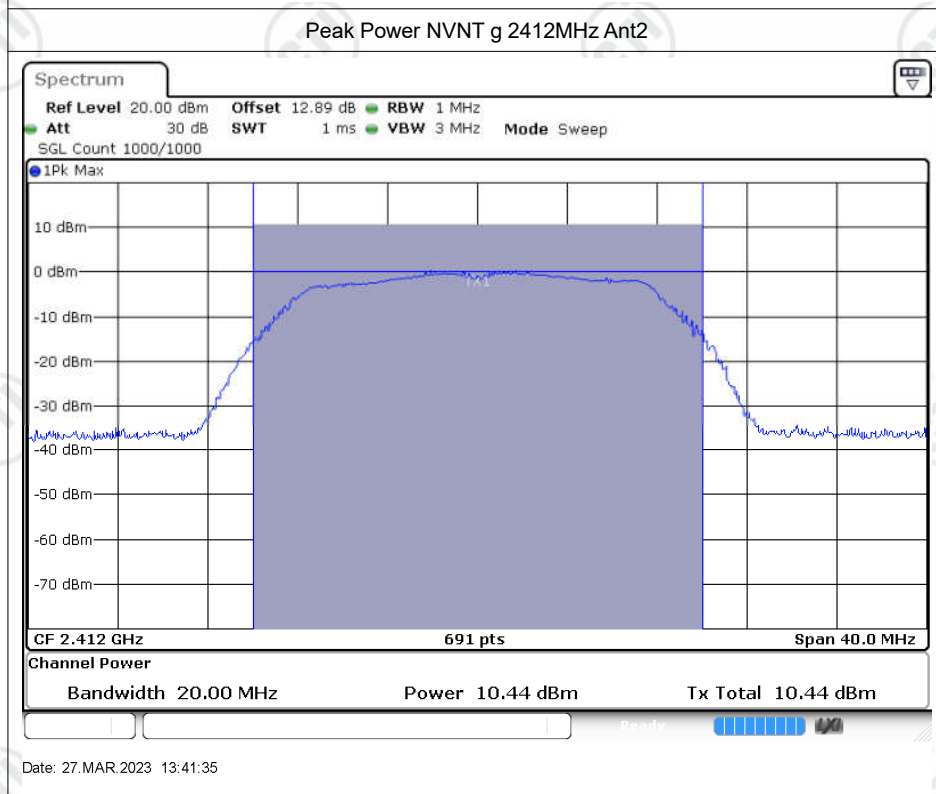
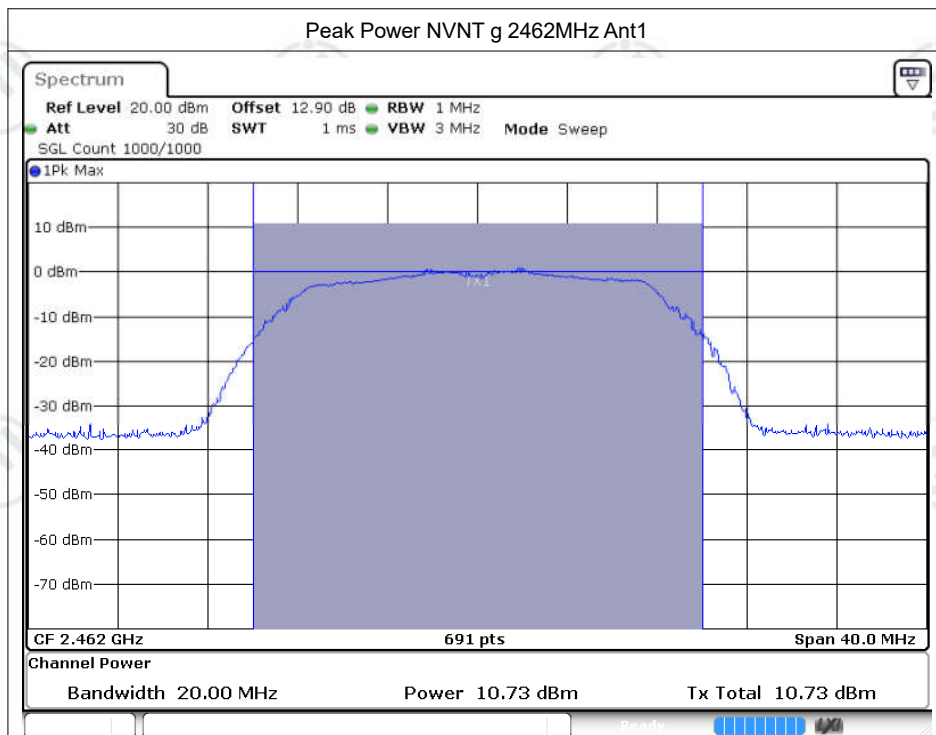
Date: 25.MAR.2023 12:44:51

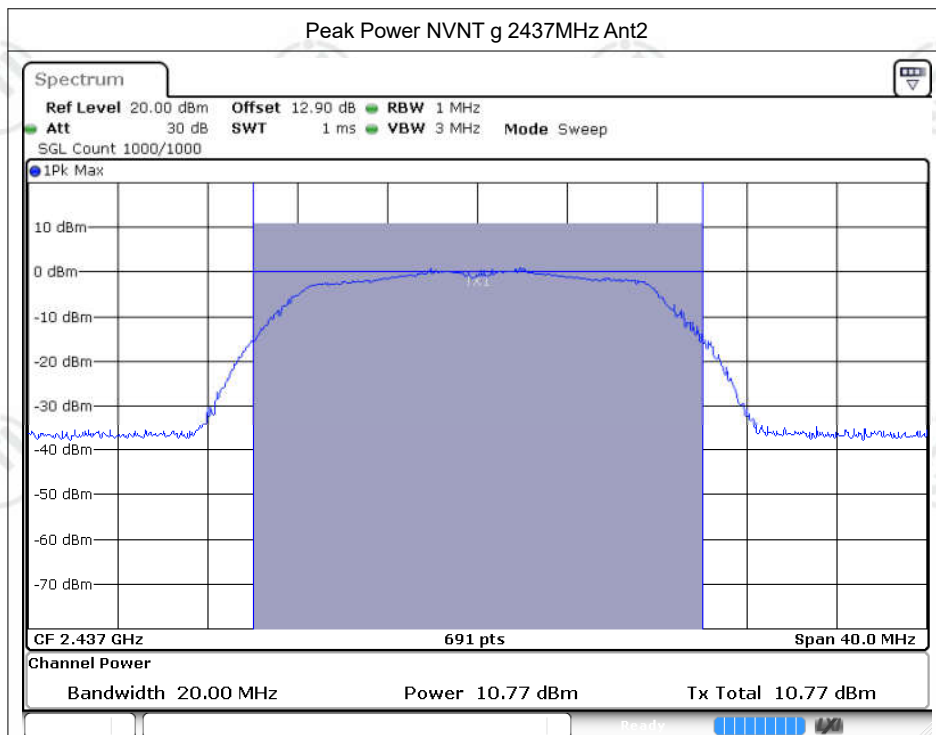


Date: 27.MAR.2023 13:36:55

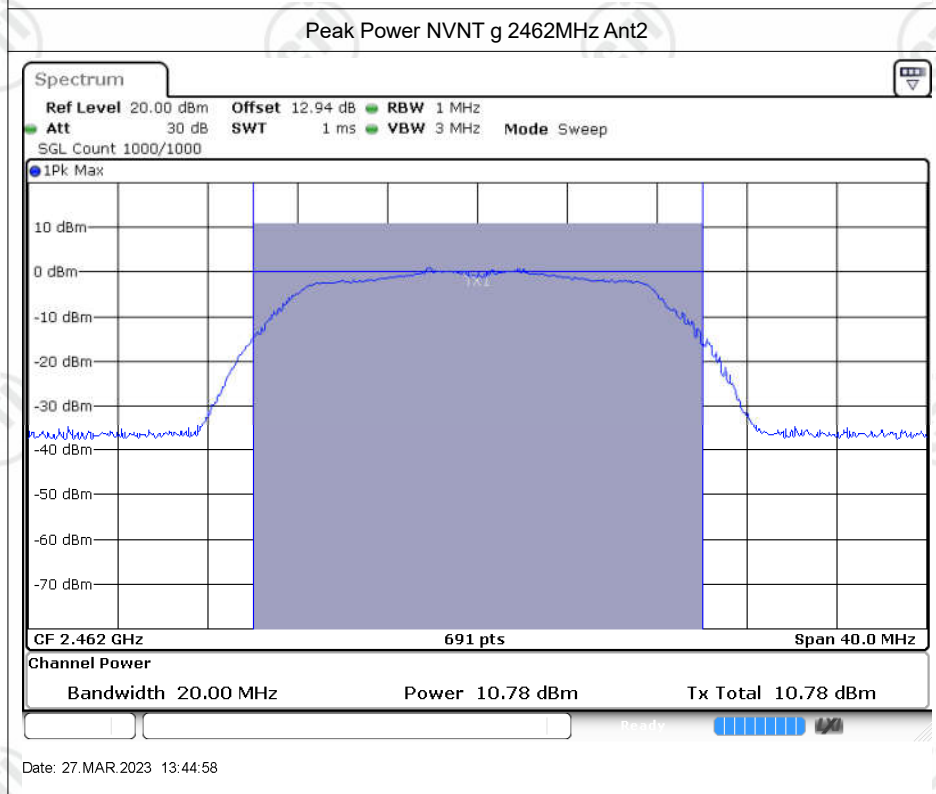


Date: 27.MAR.2023 13:38:42

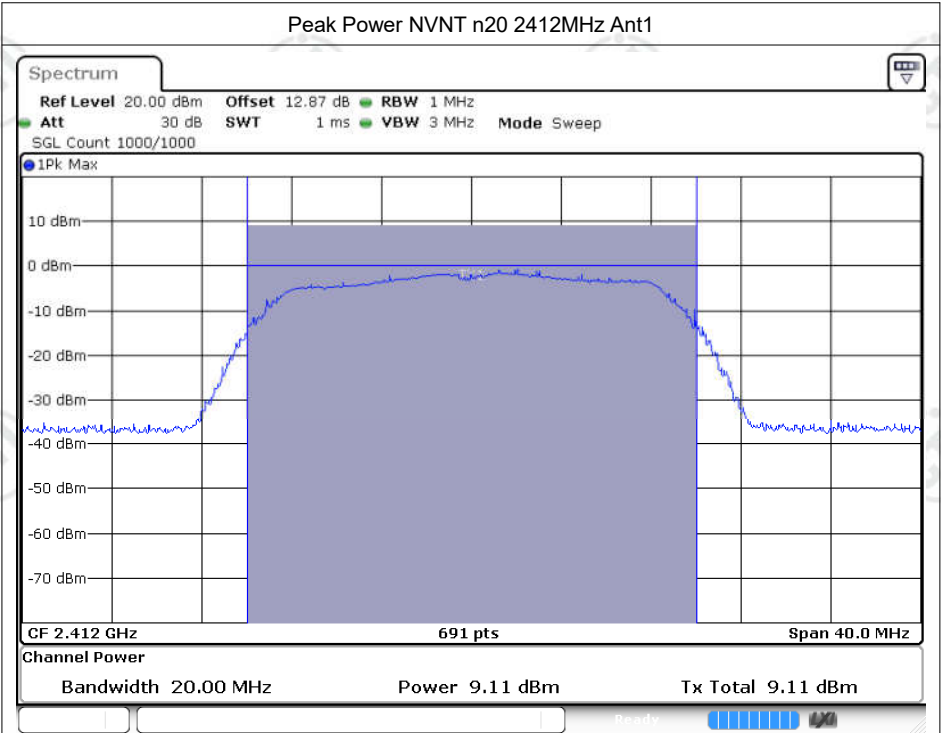




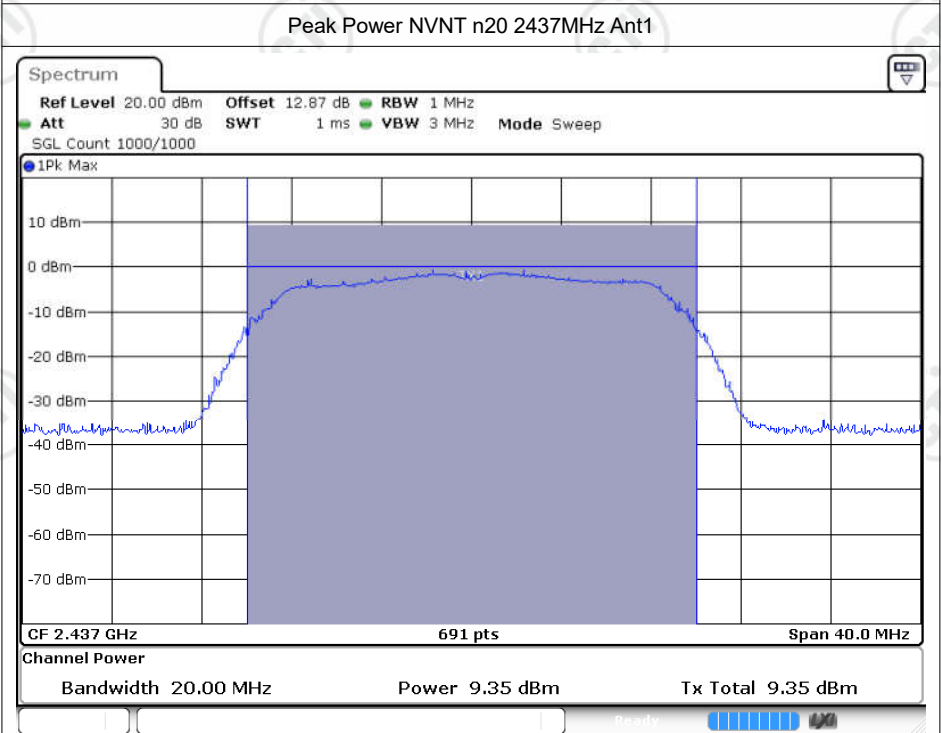
Date: 27.MAR.2023 13:43:02



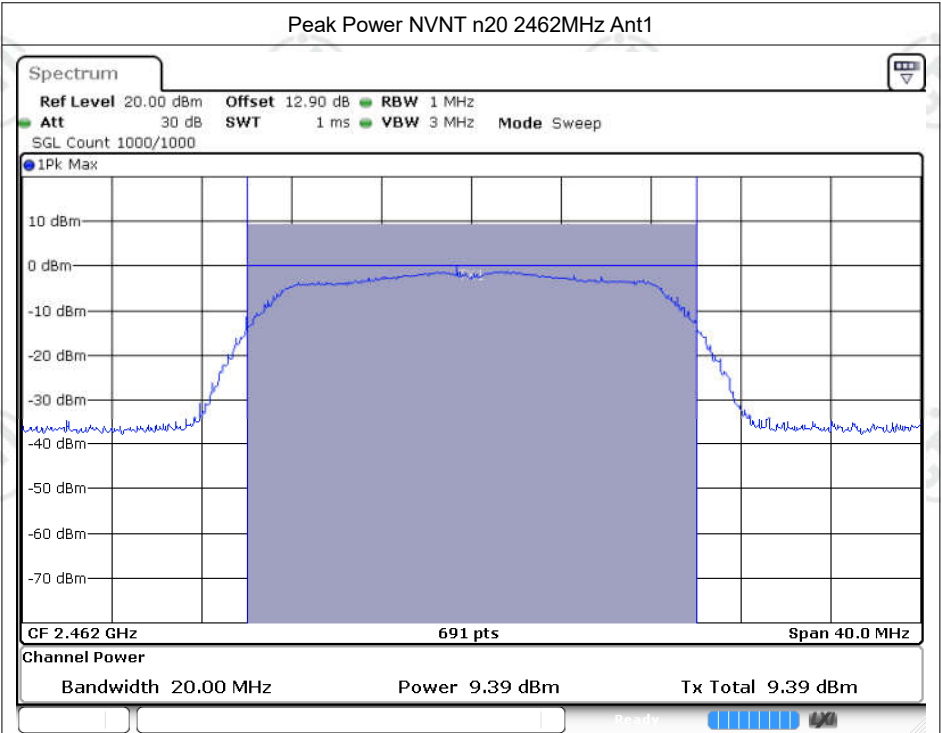
Date: 27.MAR.2023 13:44:58



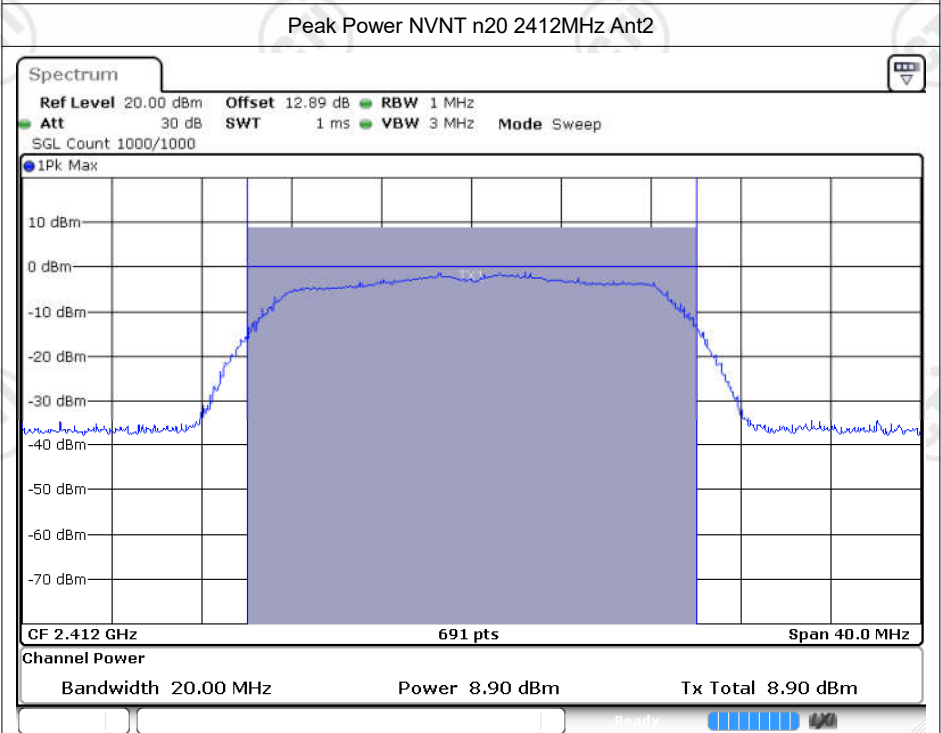
Date: 25.MAR.2023 11:15:22



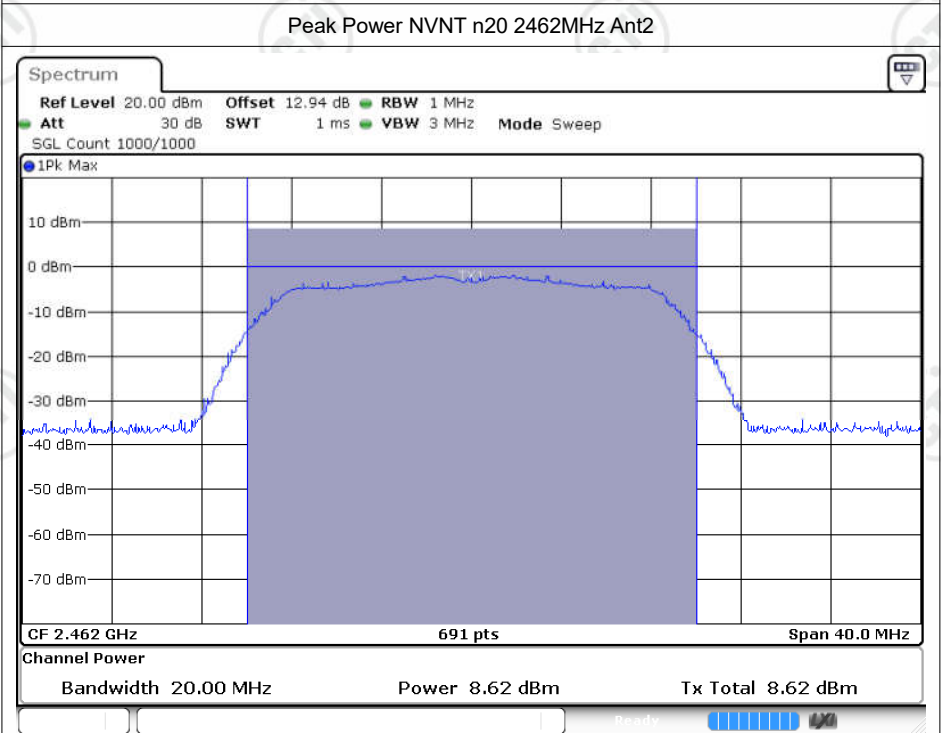
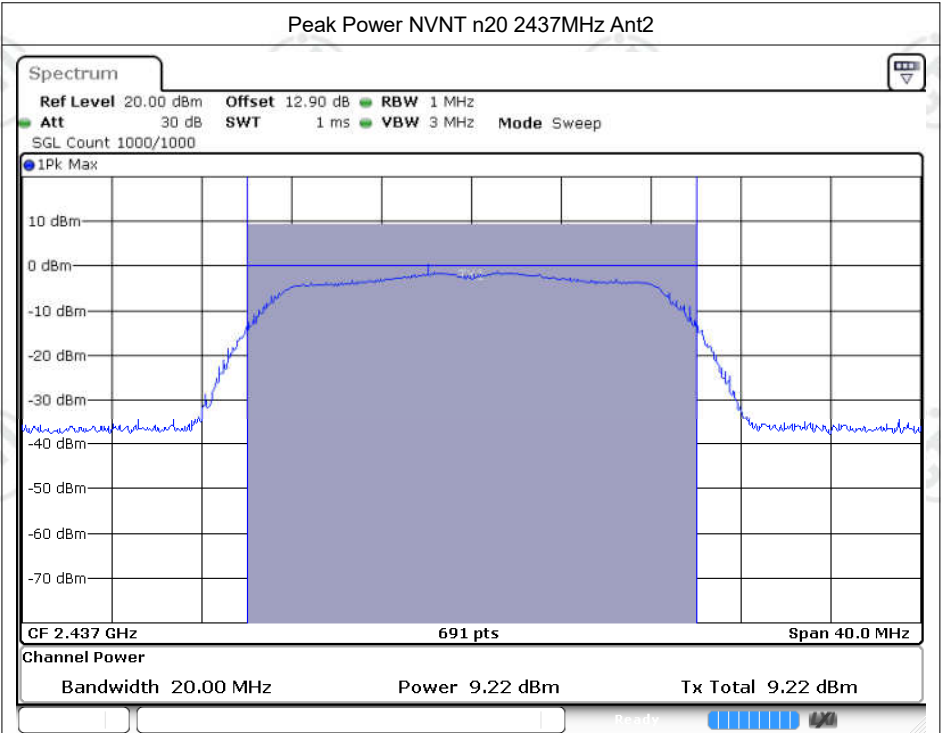
Date: 25.MAR.2023 11:21:13

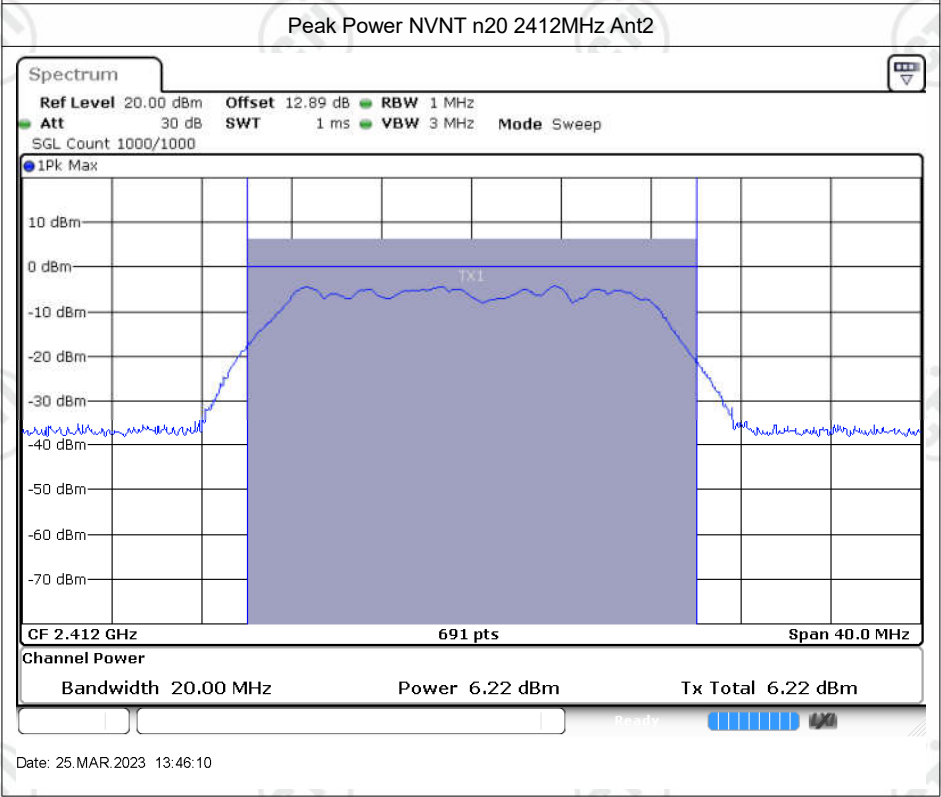
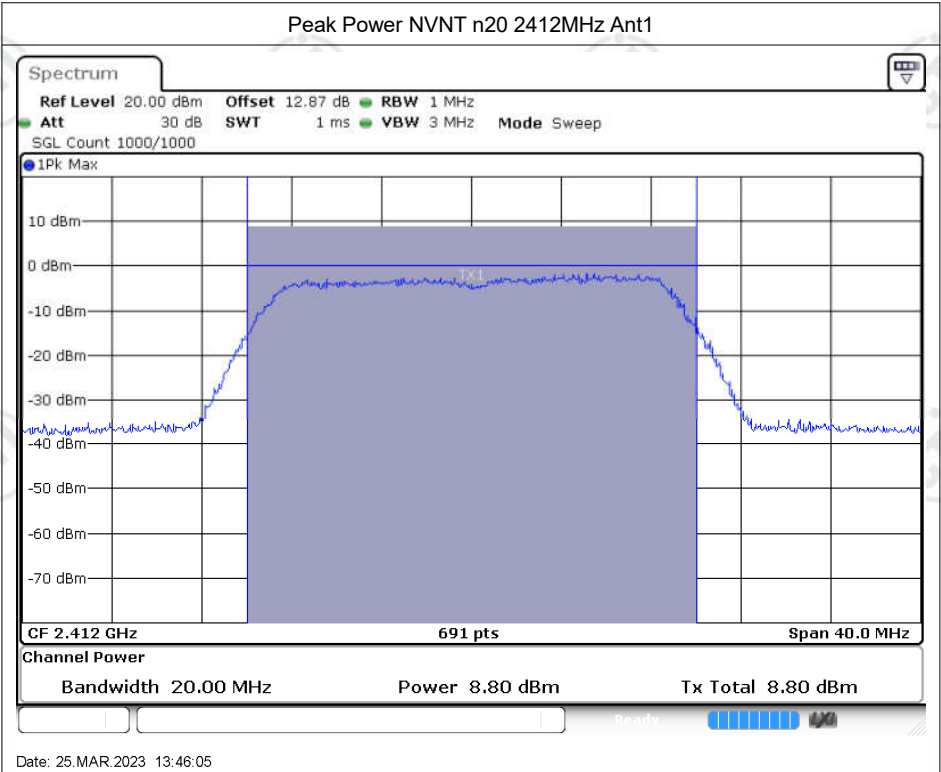


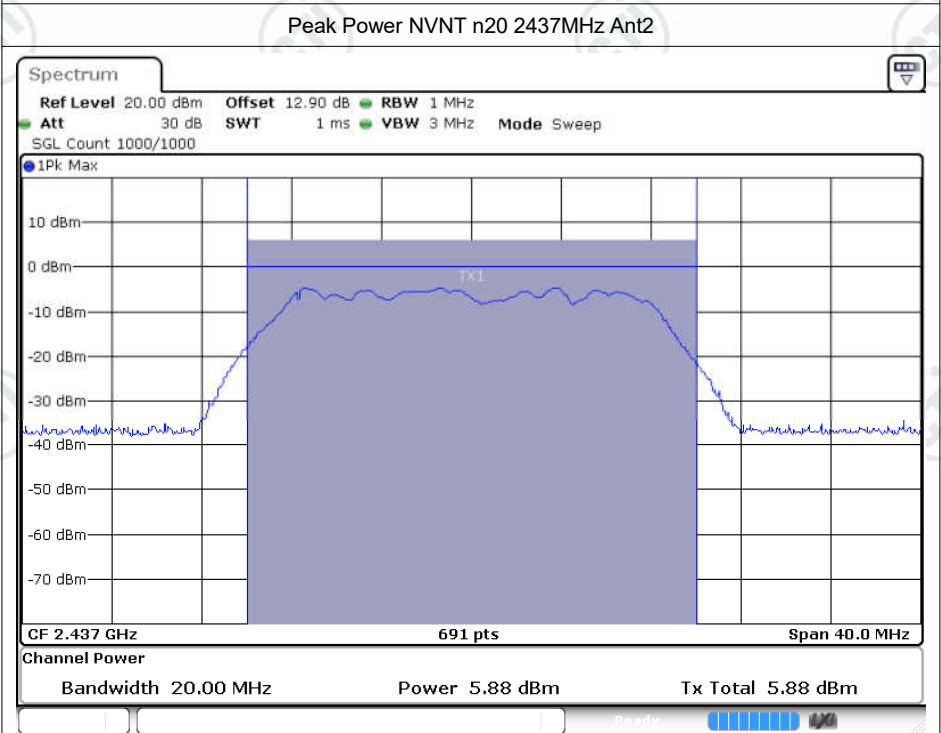
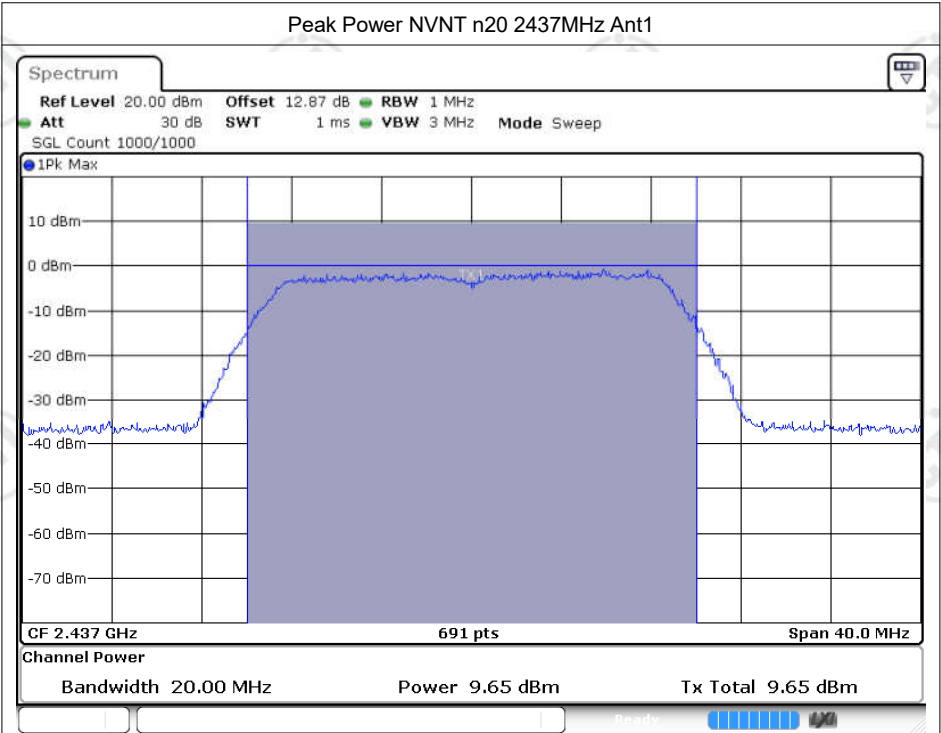
Date: 25.MAR.2023 11:23:41

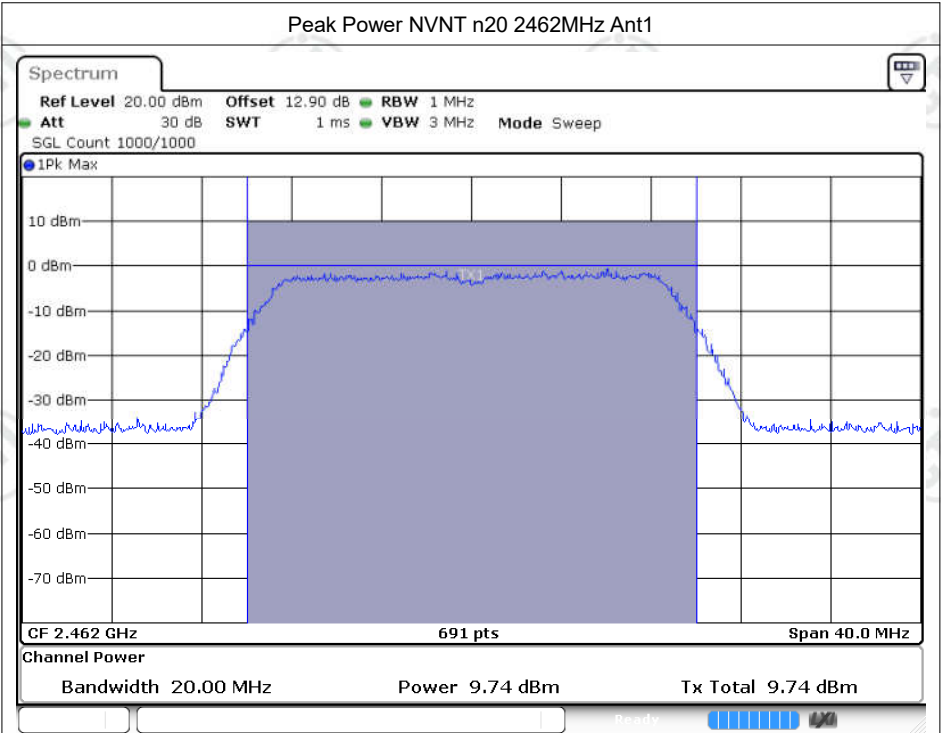


Date: 27.MAR.2023 13:48:41

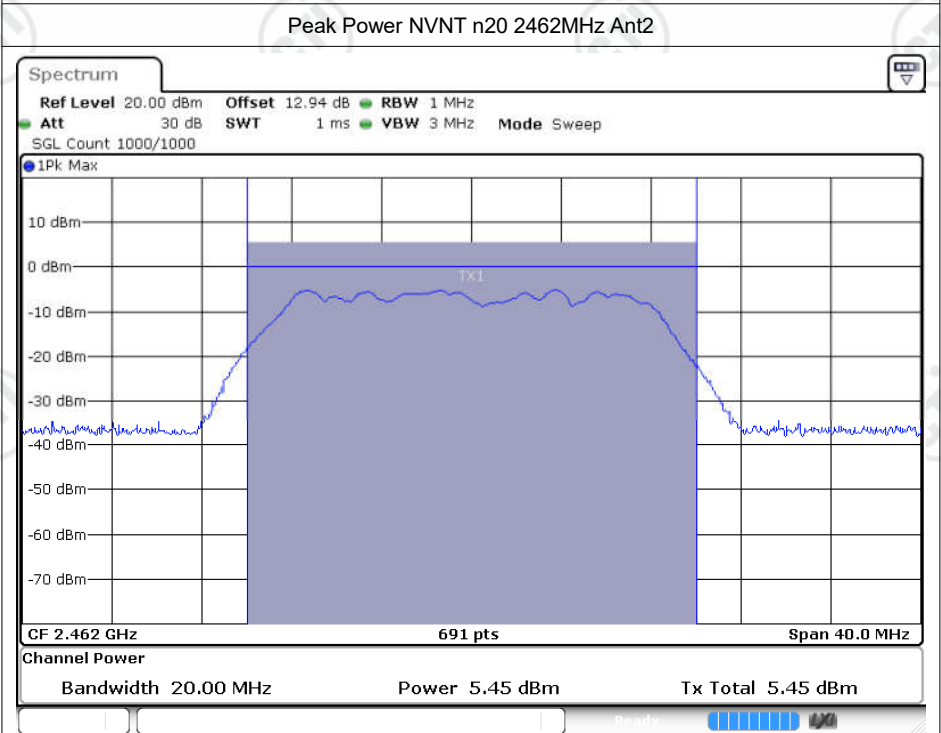




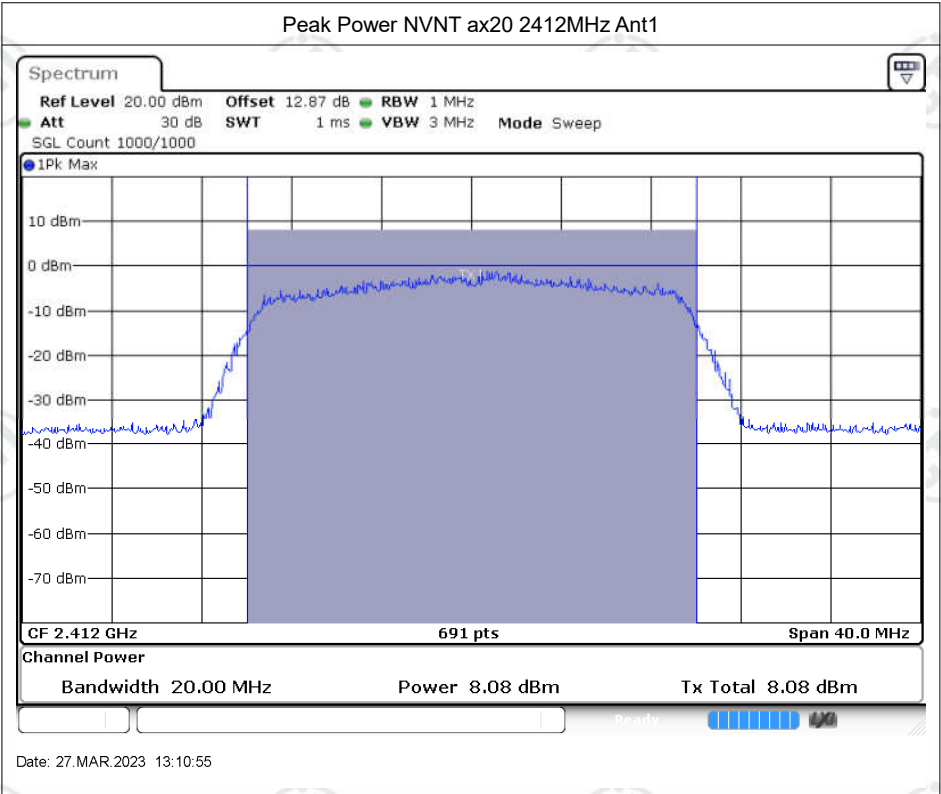


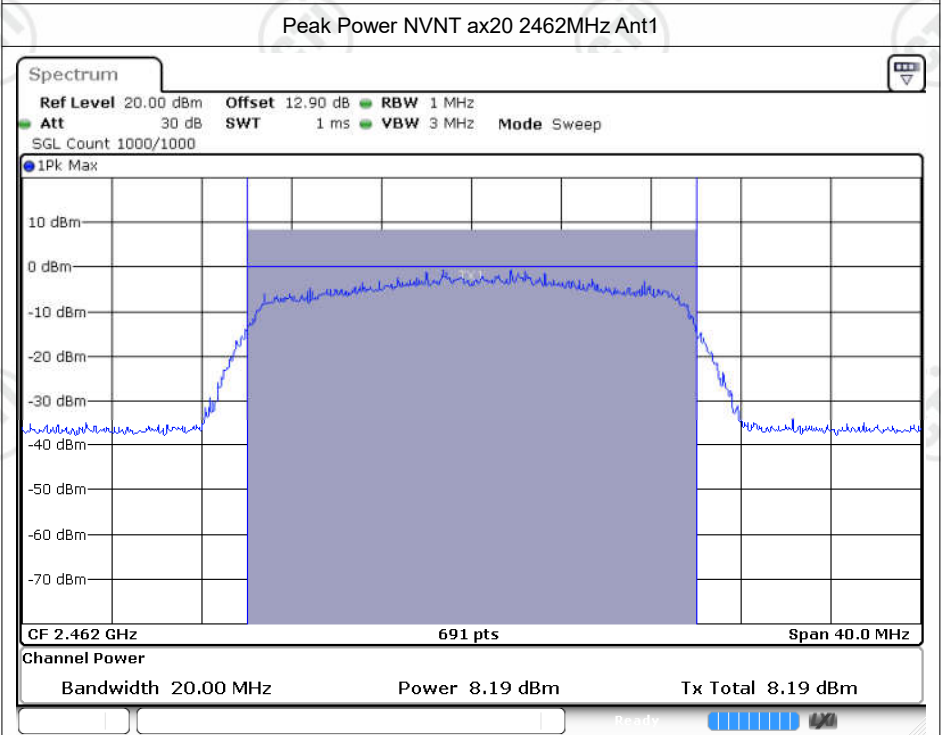
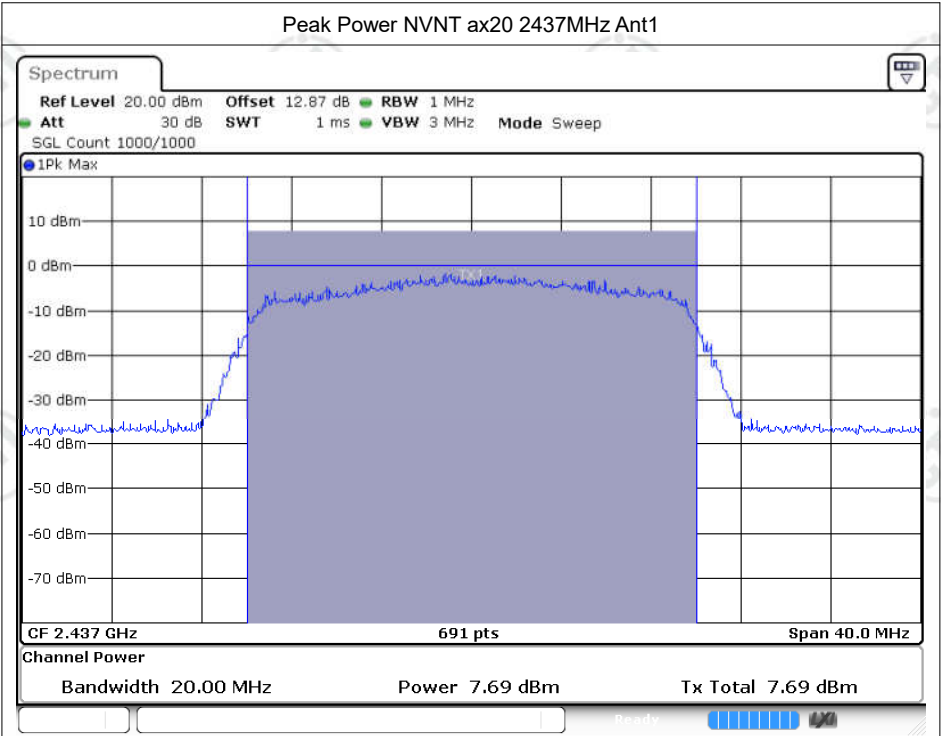


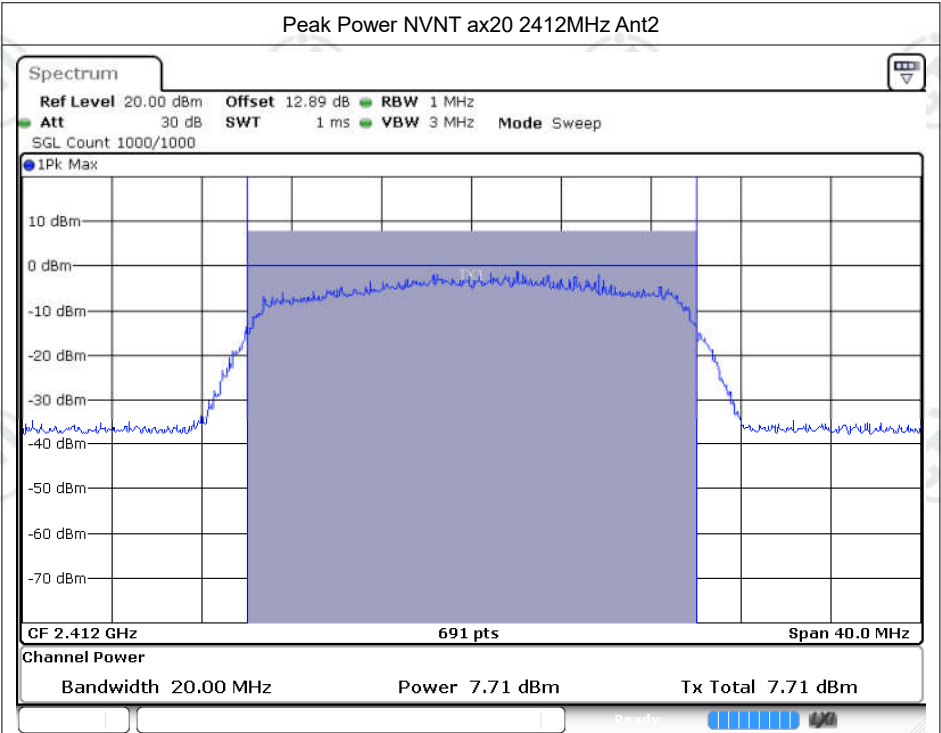
Date: 25.MAR.2023 13:55:22



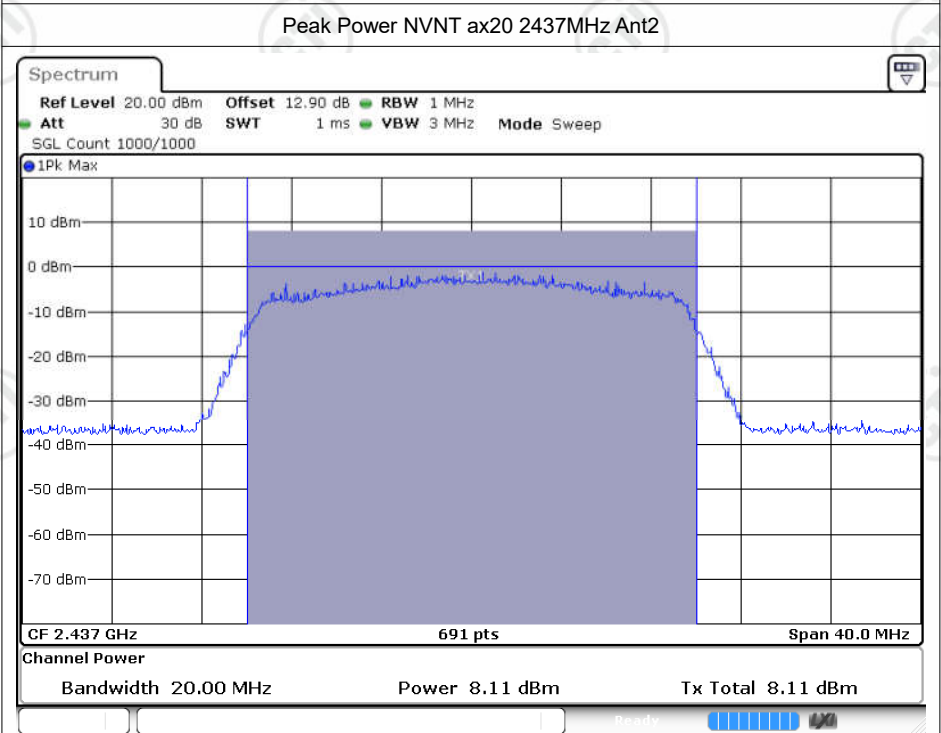
Date: 25.MAR.2023 13:55:27



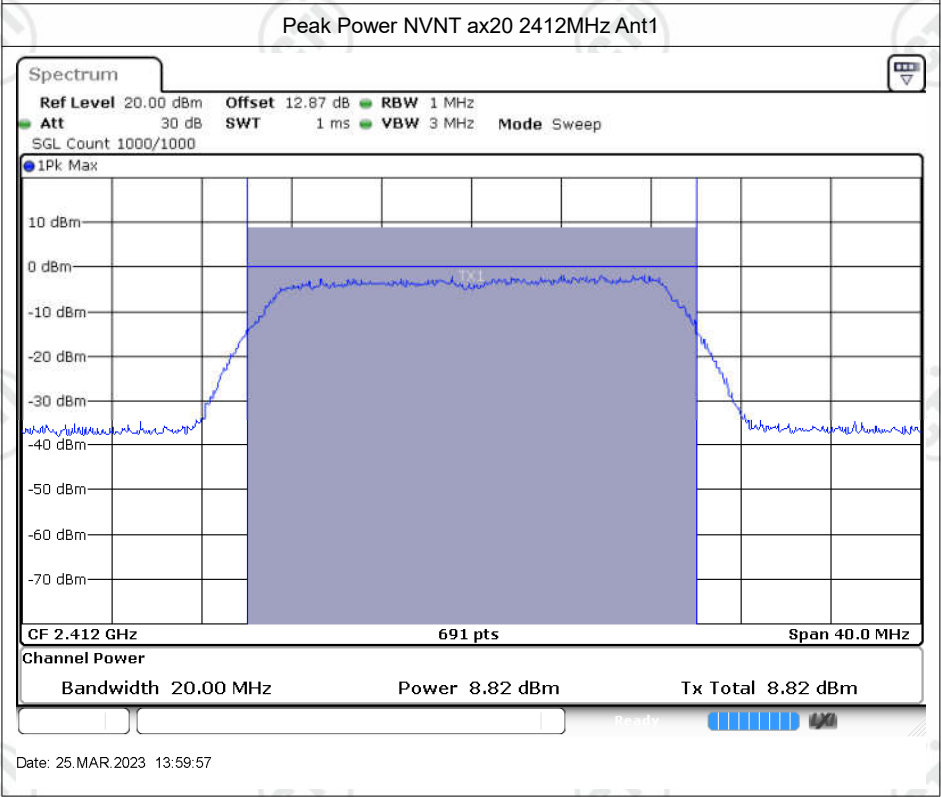
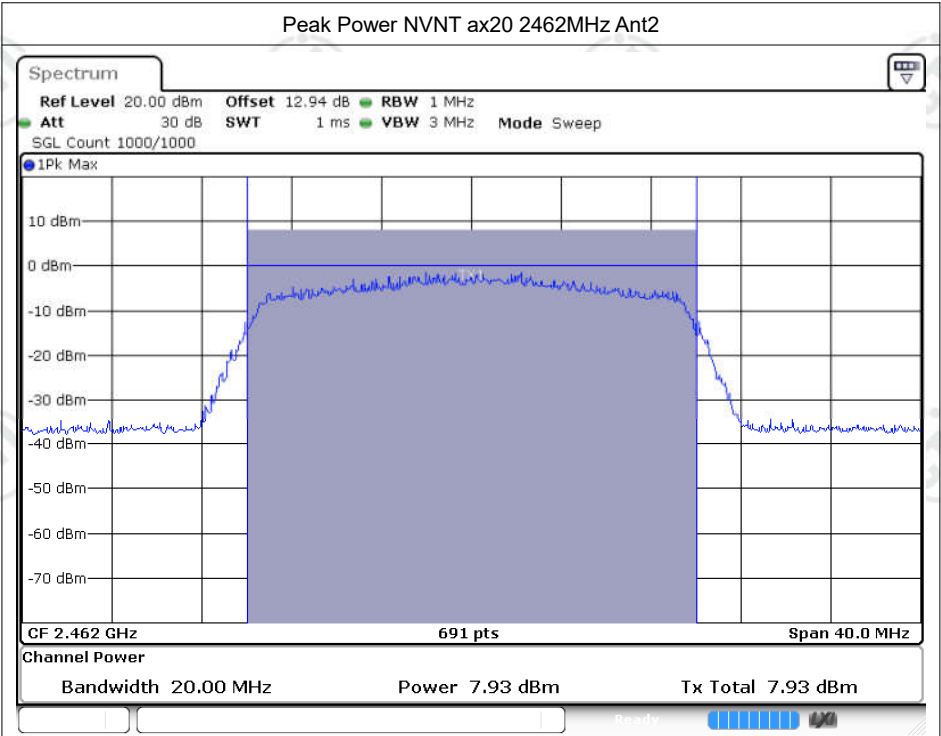


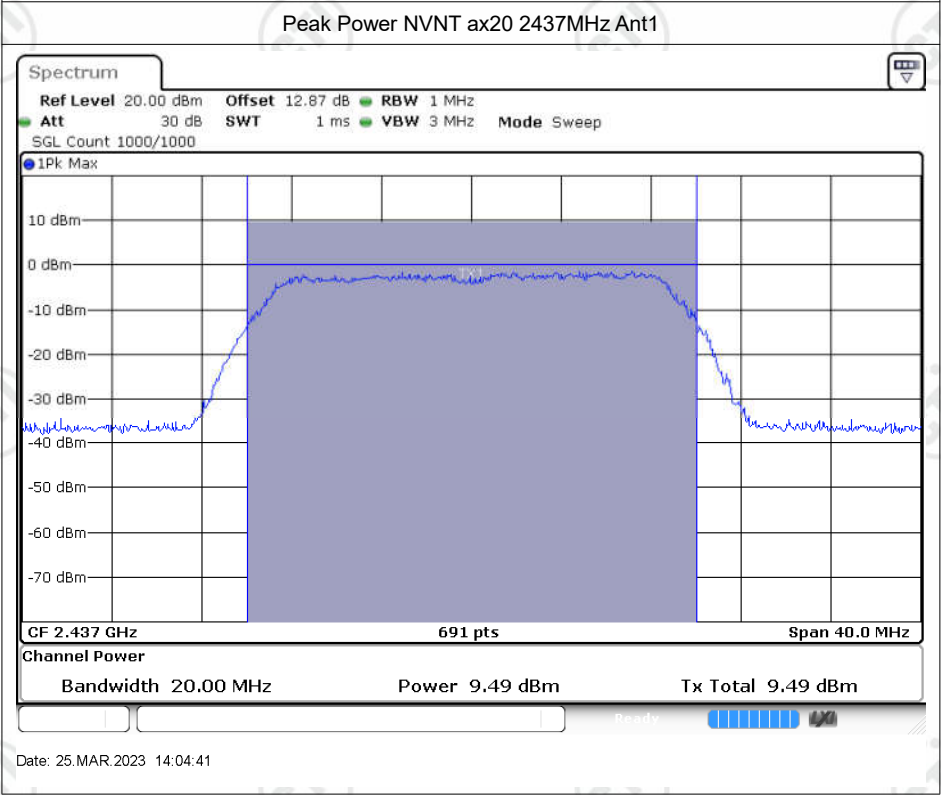
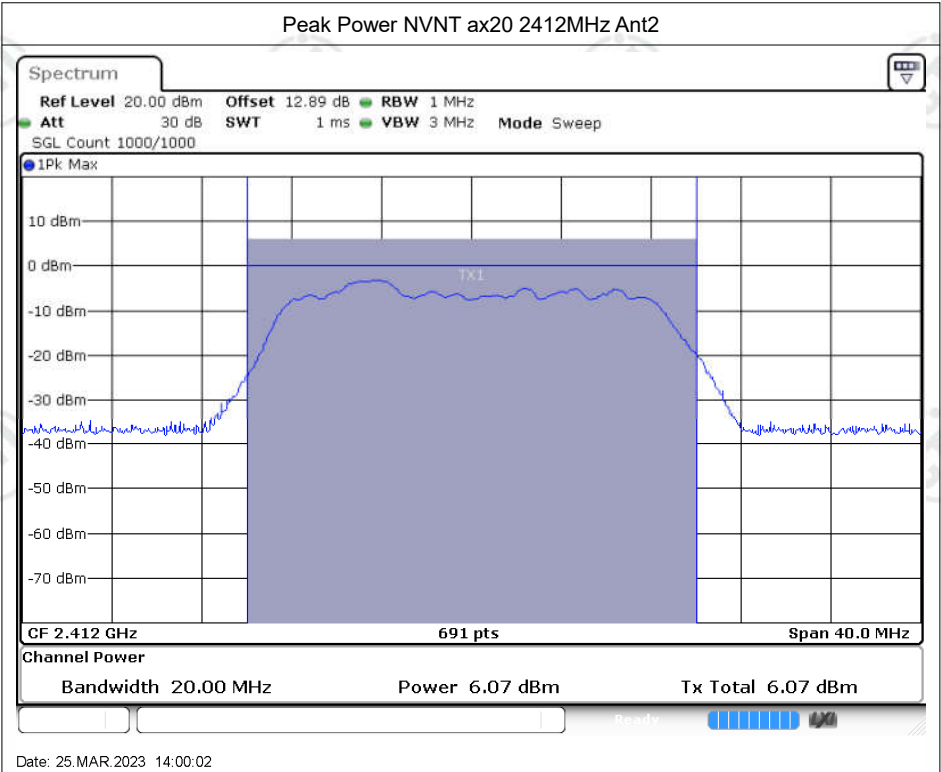


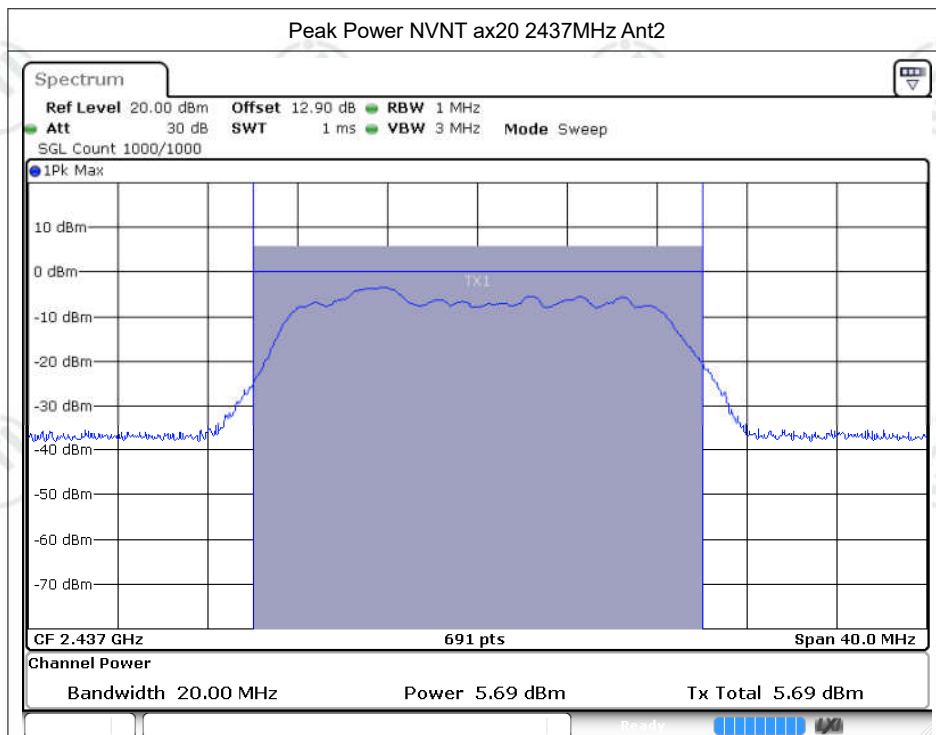
Date: 27.MAR.2023 13:23:42



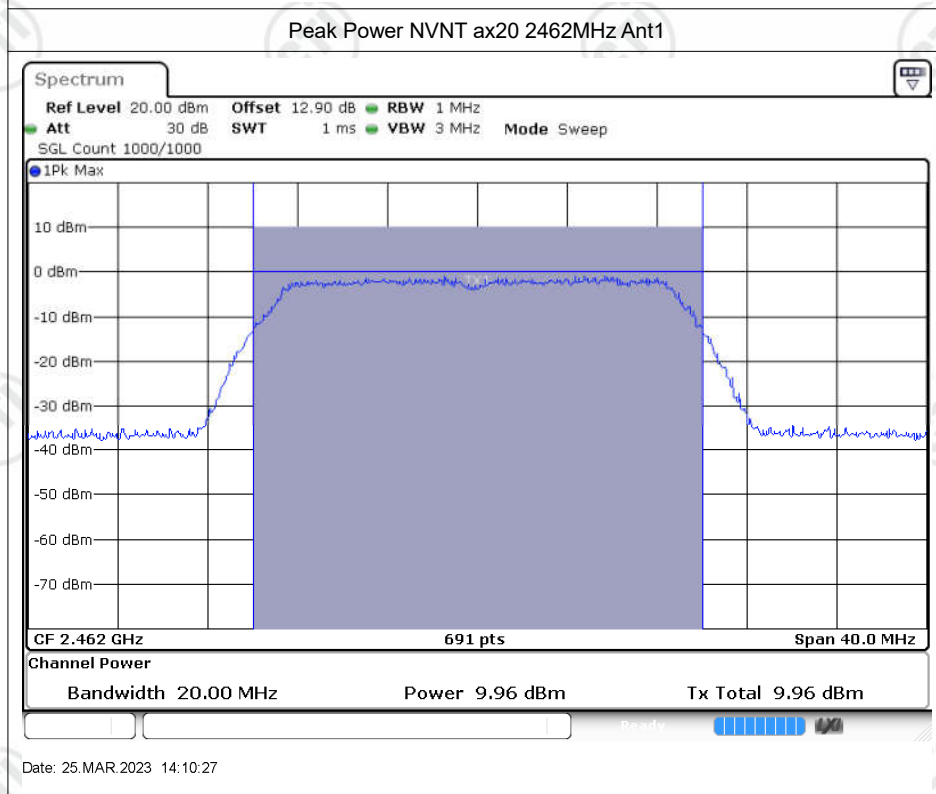
Date: 27.MAR.2023 13:28:05



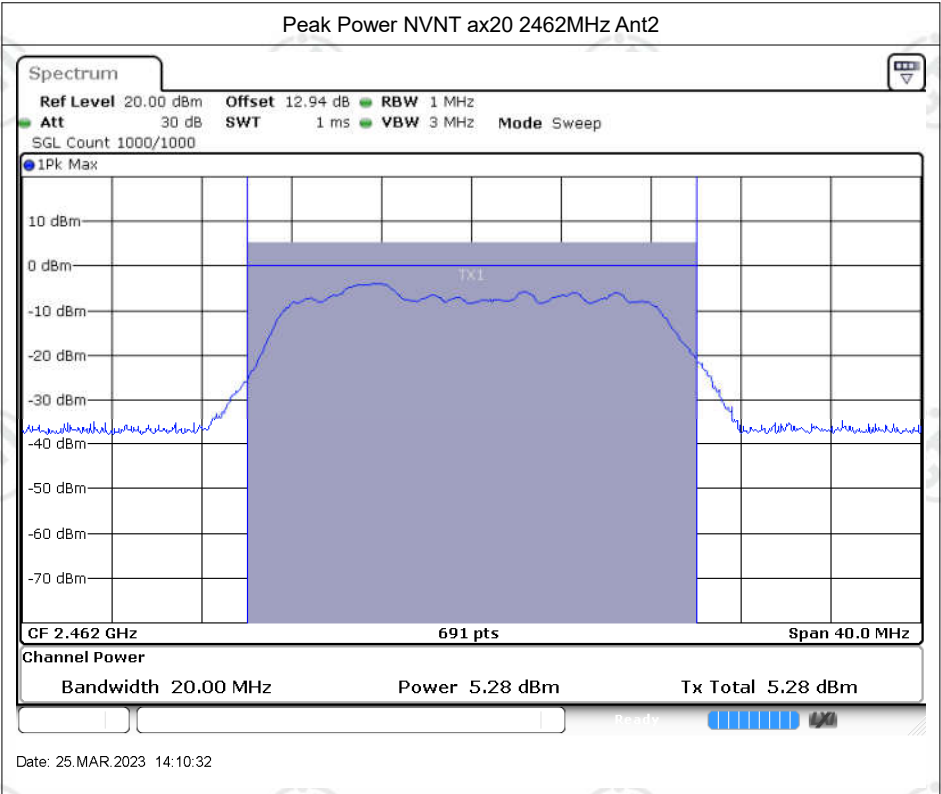




Date: 25.MAR.2023 14:04:45

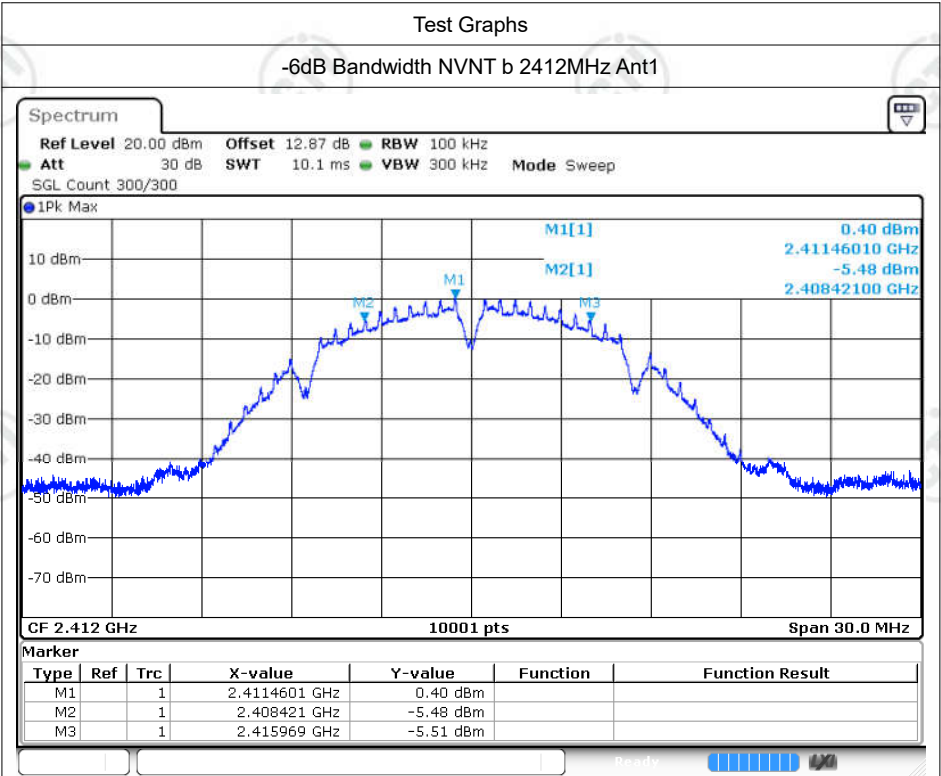


Date: 25.MAR.2023 14:10:27

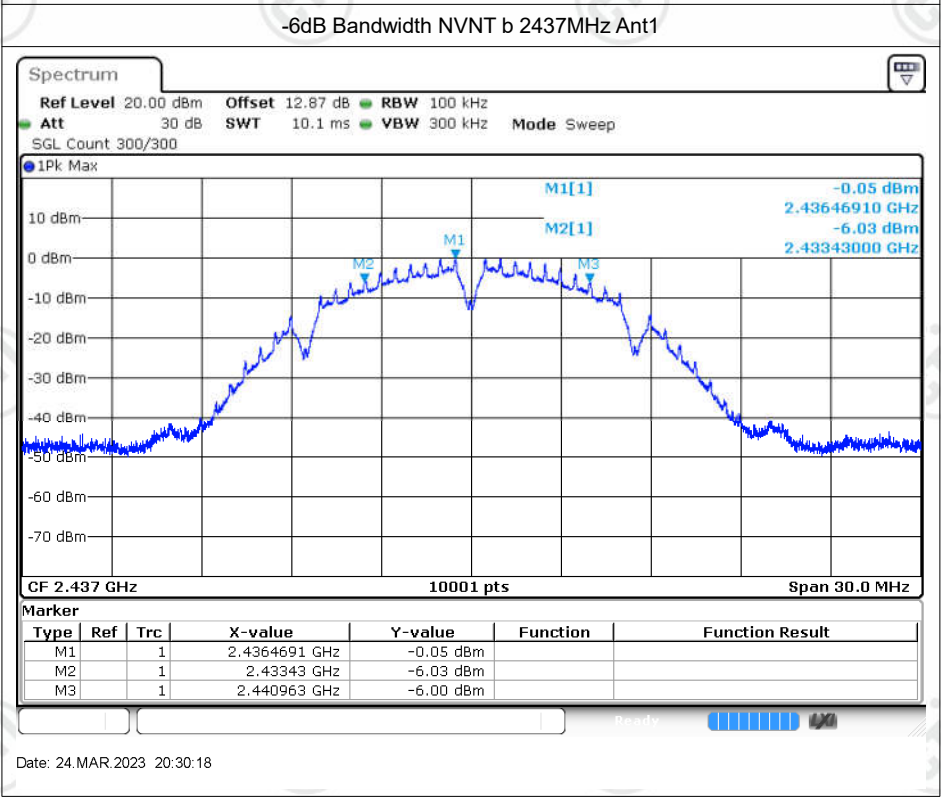


-6dB Bandwidth

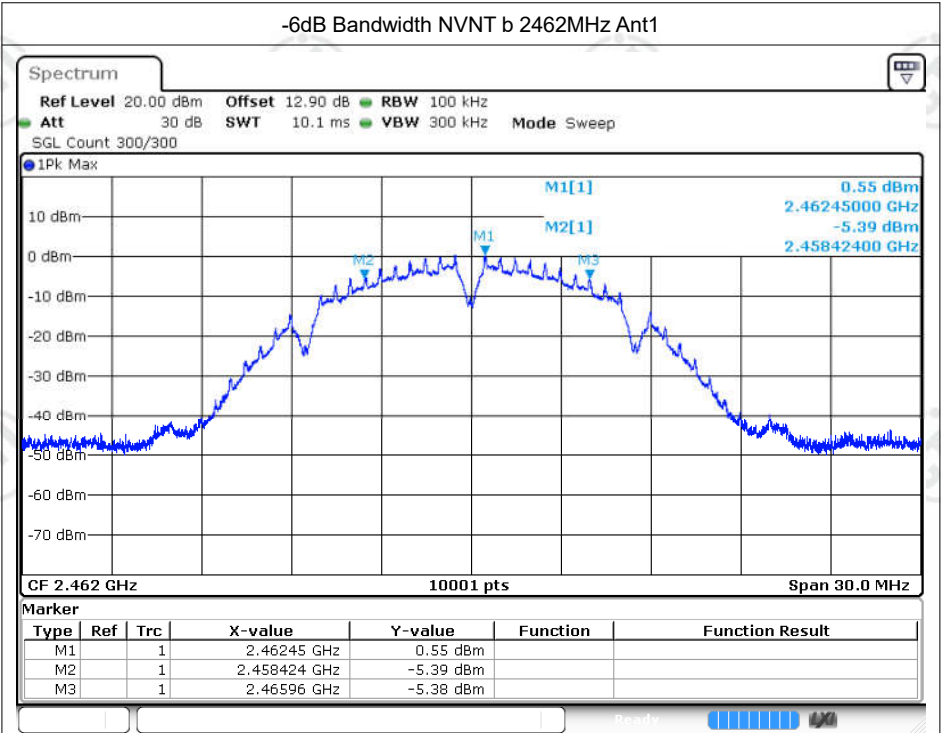
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.548	0.5	Pass
NVNT	b	2437	Ant1	7.533	0.5	Pass
NVNT	b	2462	Ant1	7.536	0.5	Pass
NVNT	b	2412	Ant2	7.527	0.5	Pass
NVNT	b	2437	Ant2	7.479	0.5	Pass
NVNT	b	2462	Ant2	8.007	0.5	Pass
NVNT	g	2412	Ant1	16.47	0.5	Pass
NVNT	g	2437	Ant1	16.479	0.5	Pass
NVNT	g	2462	Ant1	16.485	0.5	Pass
NVNT	g	2412	Ant2	16.47	0.5	Pass
NVNT	g	2437	Ant2	16.437	0.5	Pass
NVNT	g	2462	Ant2	16.443	0.5	Pass
NVNT	n20	2412	Ant1	17.553	0.5	Pass
NVNT	n20	2437	Ant1	17.556	0.5	Pass
NVNT	n20	2462	Ant1	17.568	0.5	Pass
NVNT	n20	2412	Ant2	17.76	0.5	Pass
NVNT	n20	2437	Ant2	17.712	0.5	Pass
NVNT	n20	2462	Ant2	17.715	0.5	Pass
NVNT	ax20	2412	Ant1	18.105	0.5	Pass
NVNT	ax20	2437	Ant1	18.477	0.5	Pass
NVNT	ax20	2462	Ant1	18.474	0.5	Pass
NVNT	ax20	2412	Ant2	18.477	0.5	Pass
NVNT	ax20	2437	Ant2	18.315	0.5	Pass
NVNT	ax20	2462	Ant2	18.633	0.5	Pass



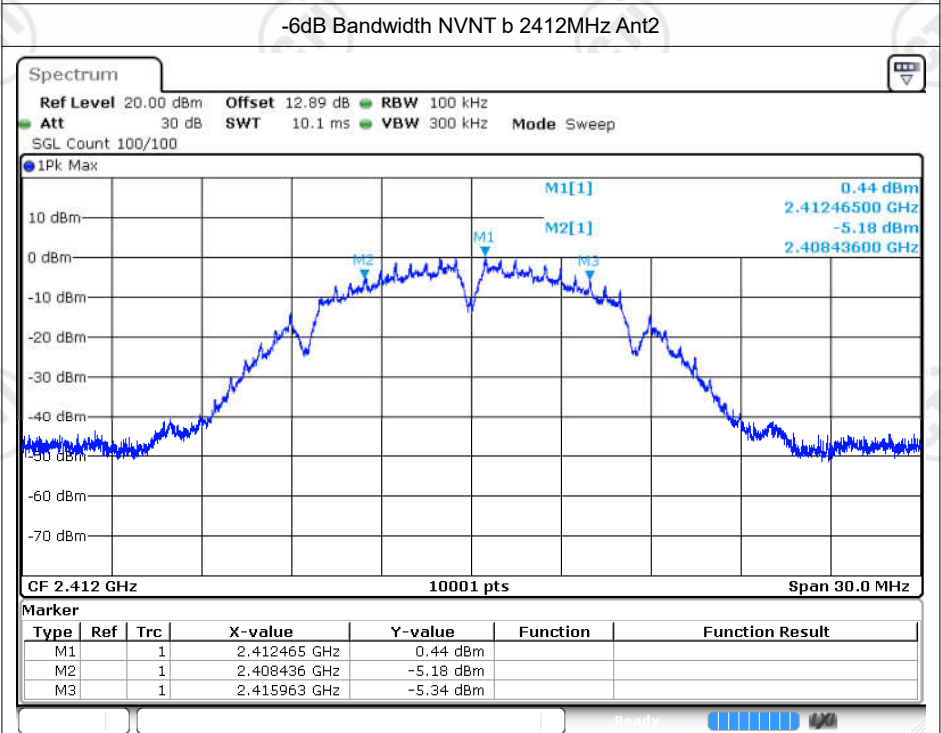
Date: 24.MAR.2023 20:27:42



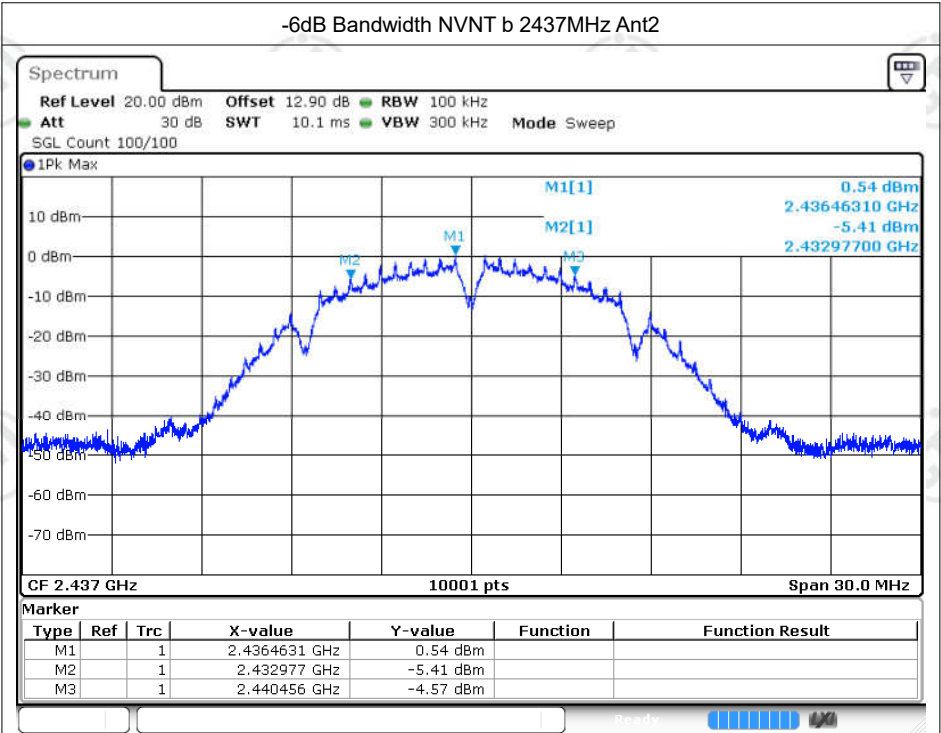
Date: 24.MAR.2023 20:30:18



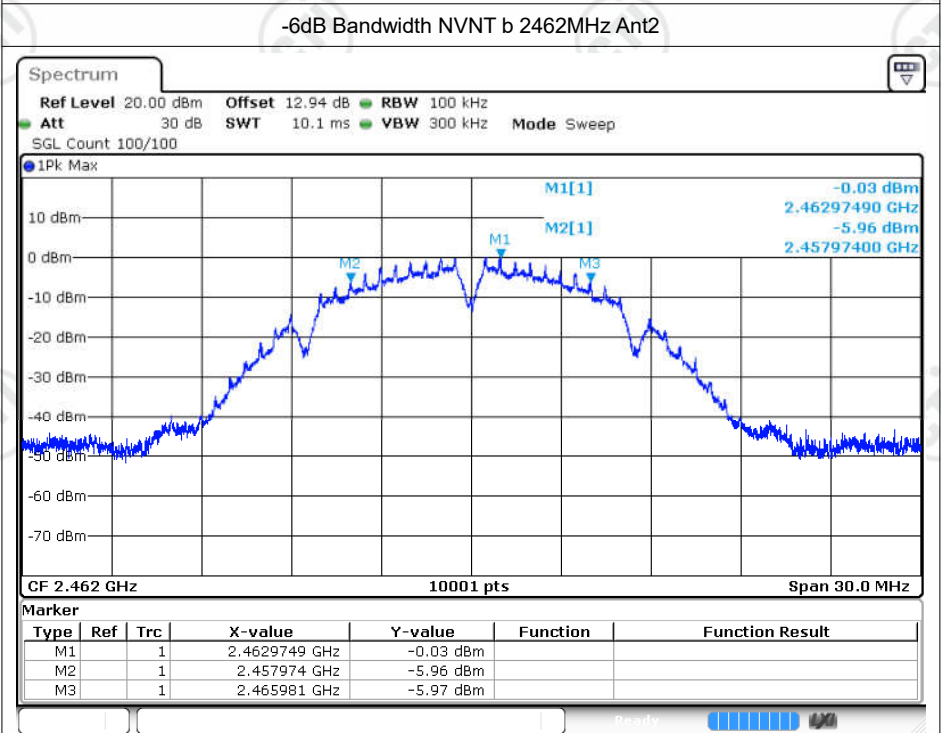
Date: 24.MAR 2023 20:32:36



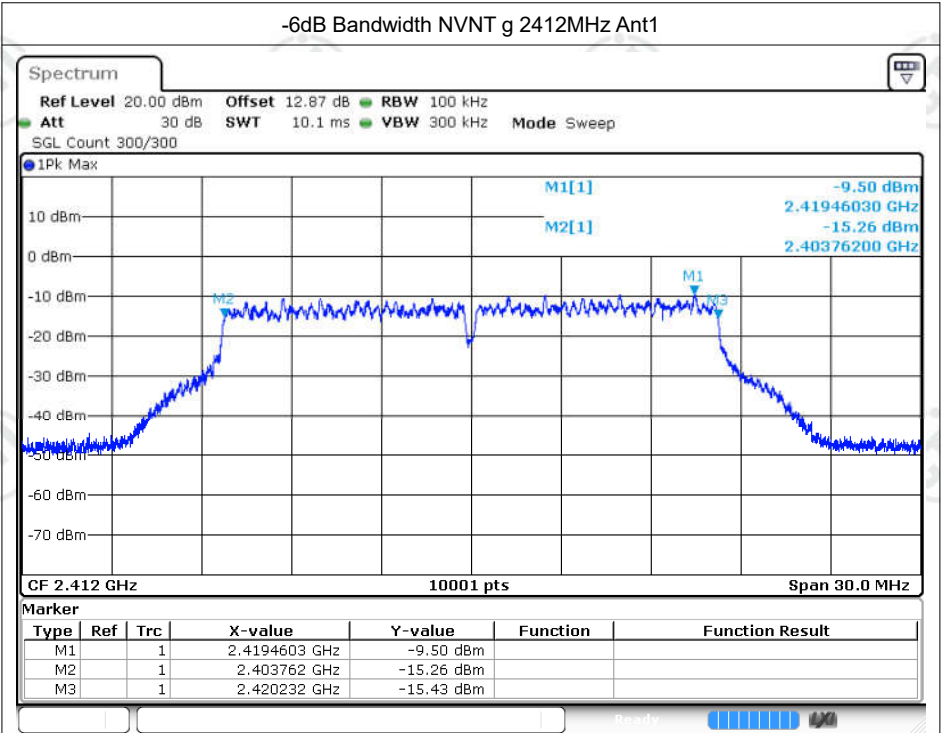
Date: 25.MAR 2023 12:39:00



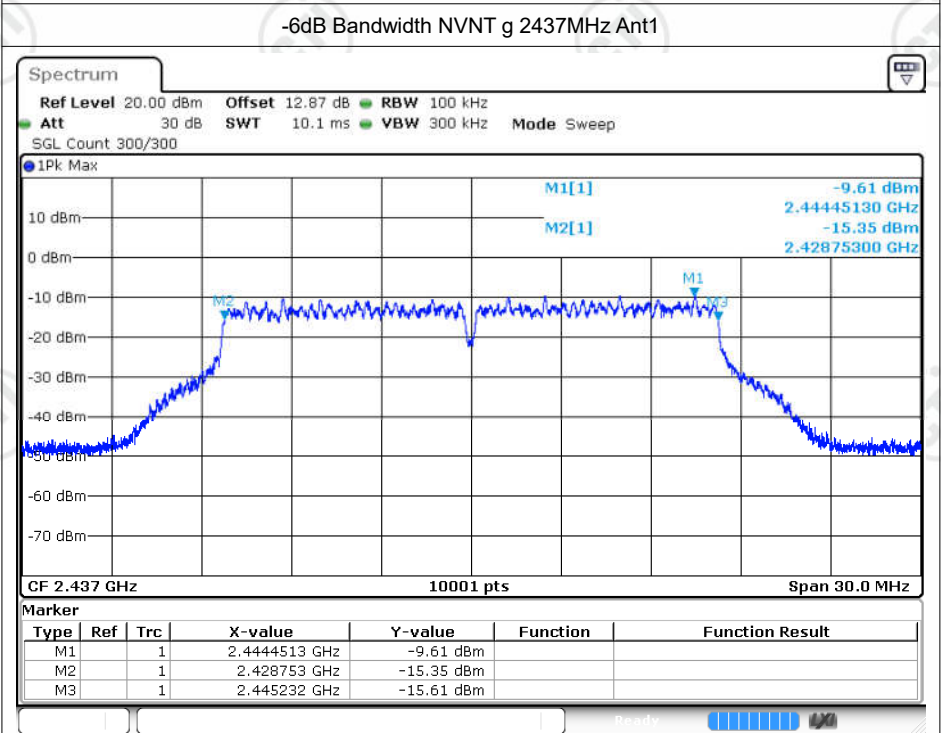
Date: 25.MAR.2023 12:43:24



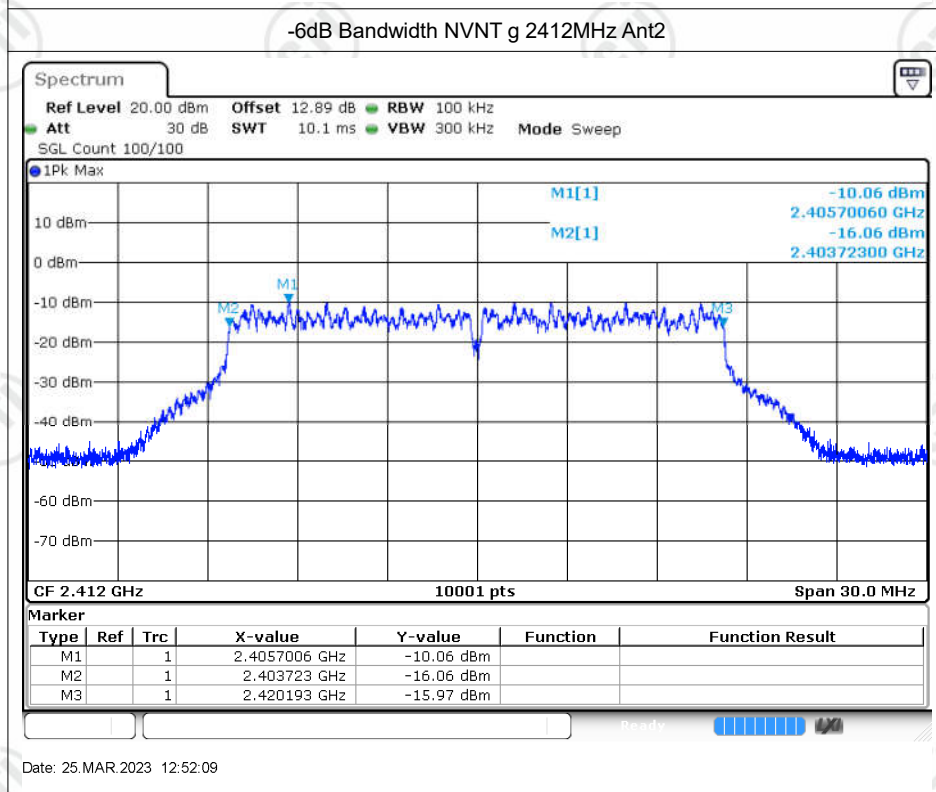
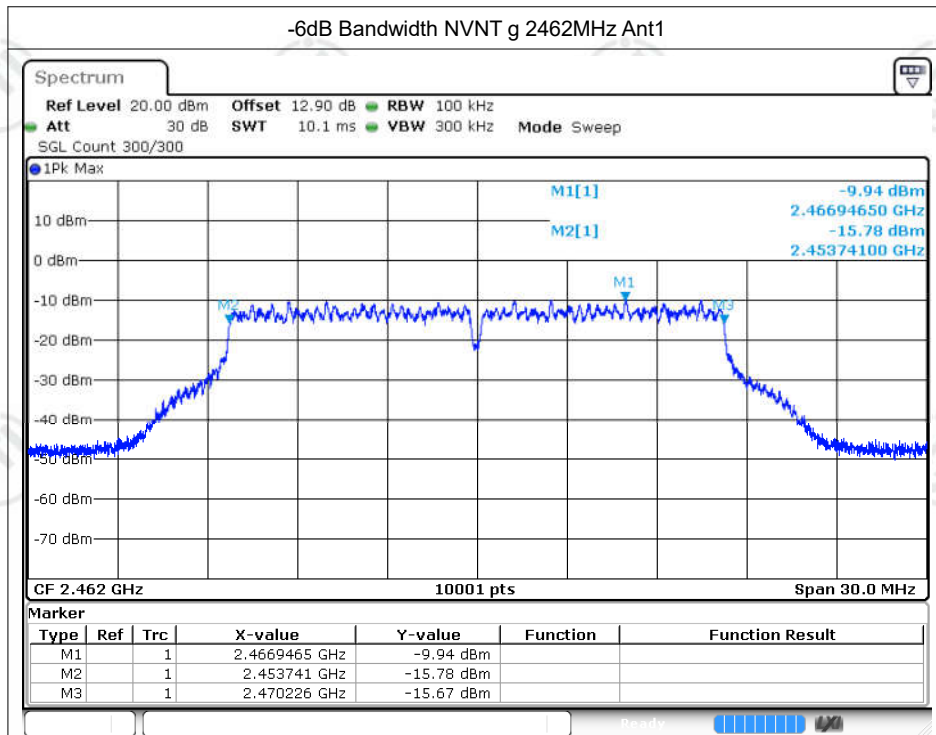
Date: 25.MAR.2023 12:45:38

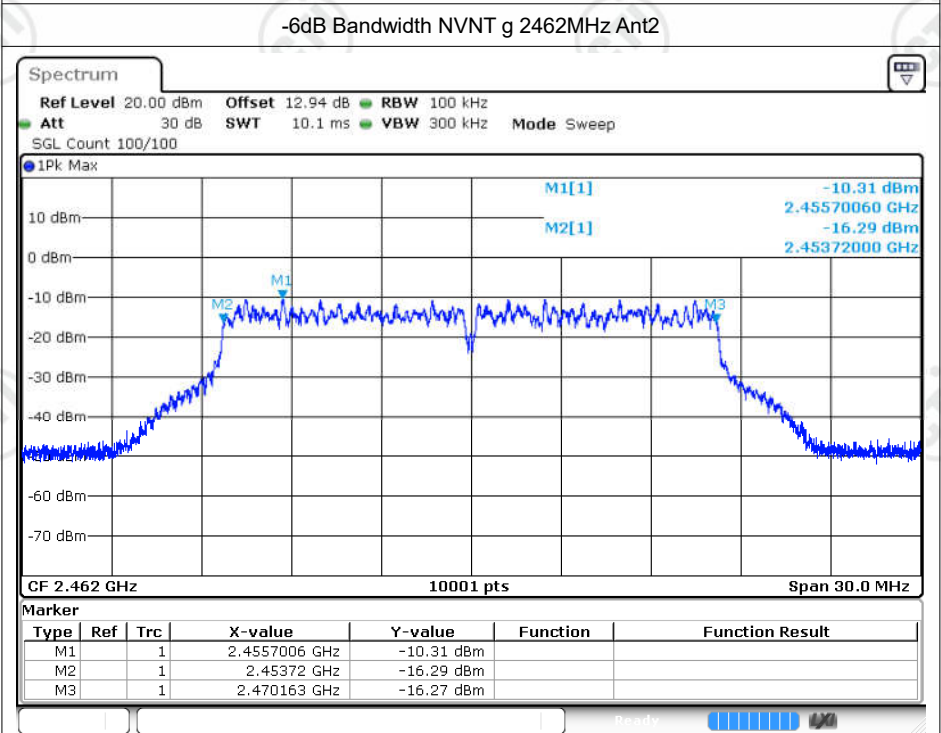
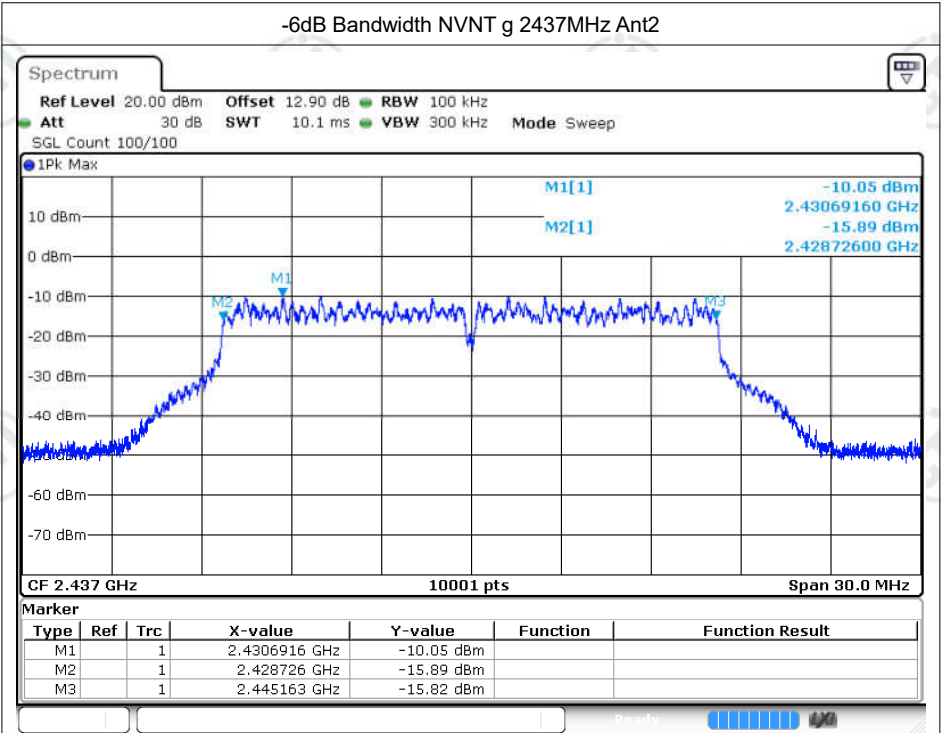


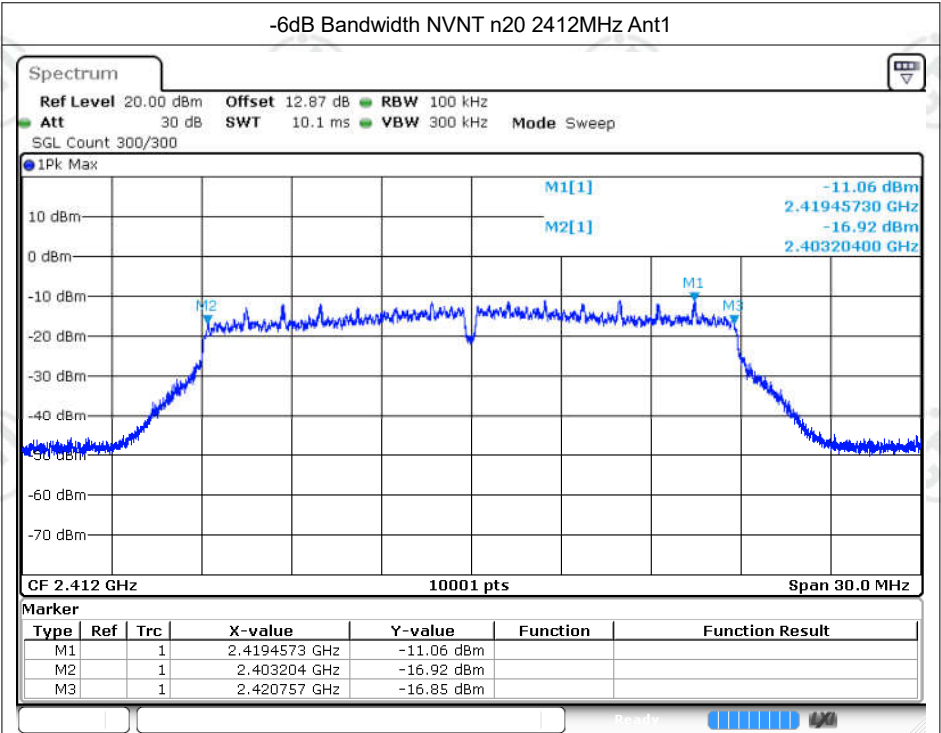
Date: 24.MAR.2023 20:35:47



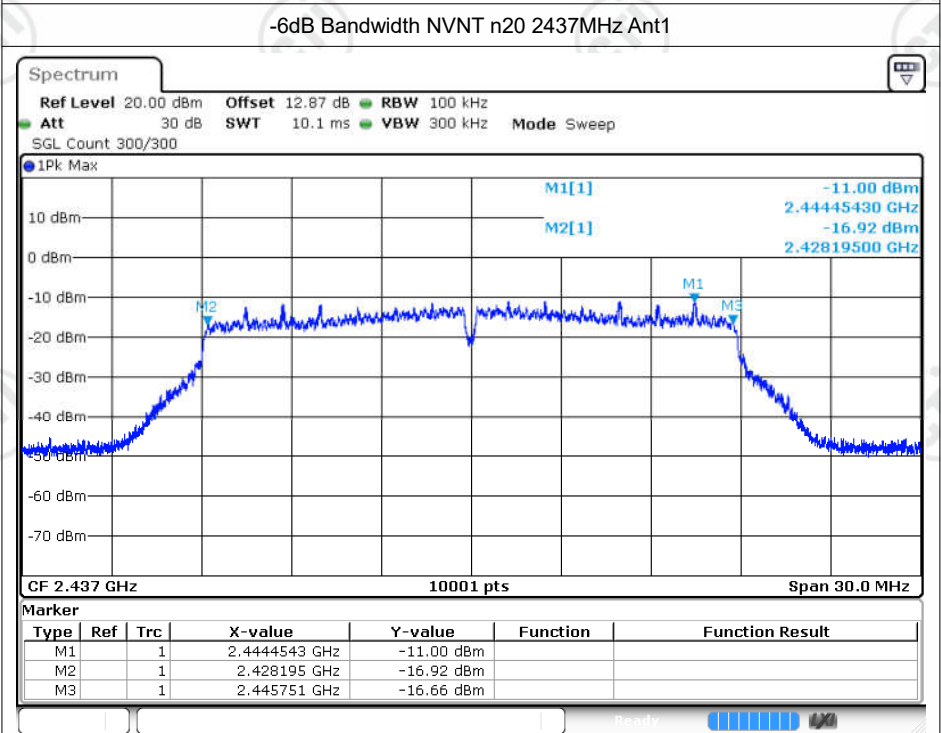
Date: 24.MAR.2023 20:38:17



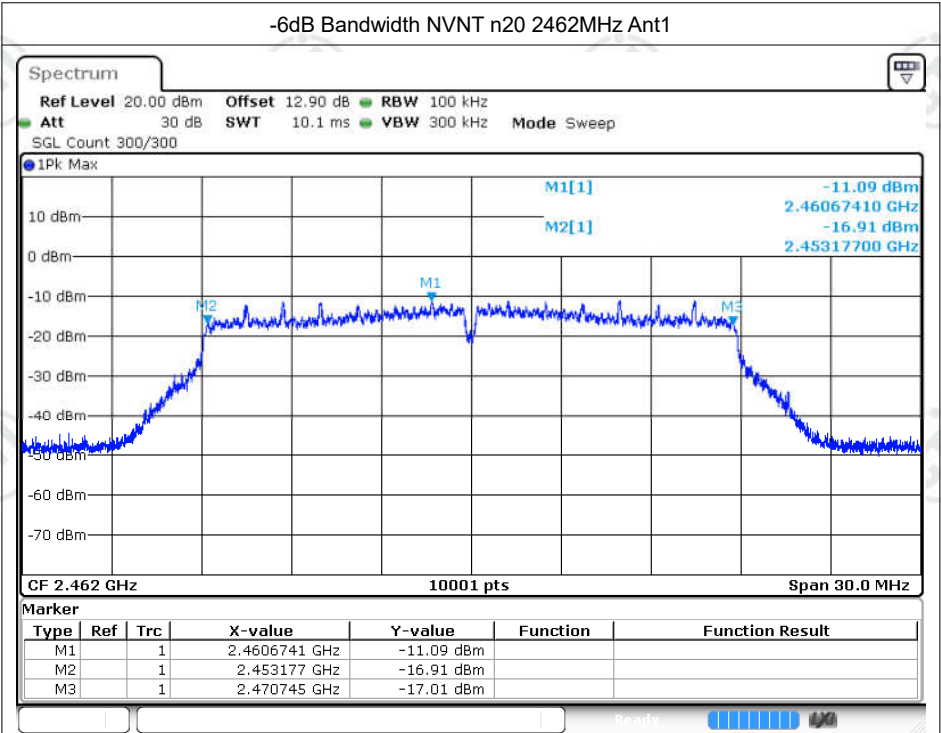




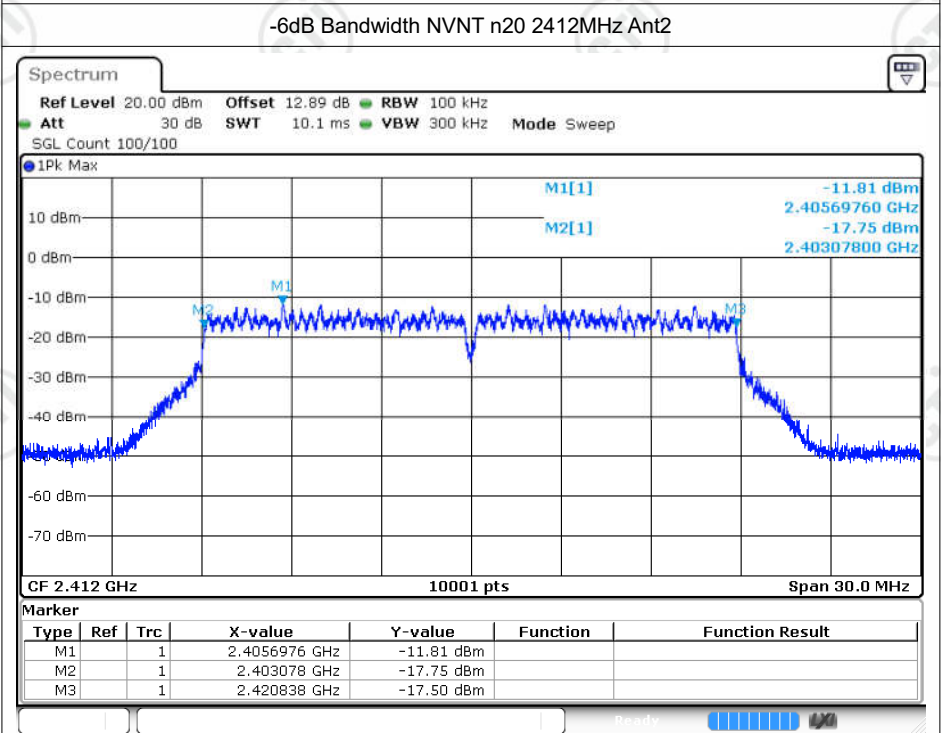
Date: 25.MAR.2023 11:16:52



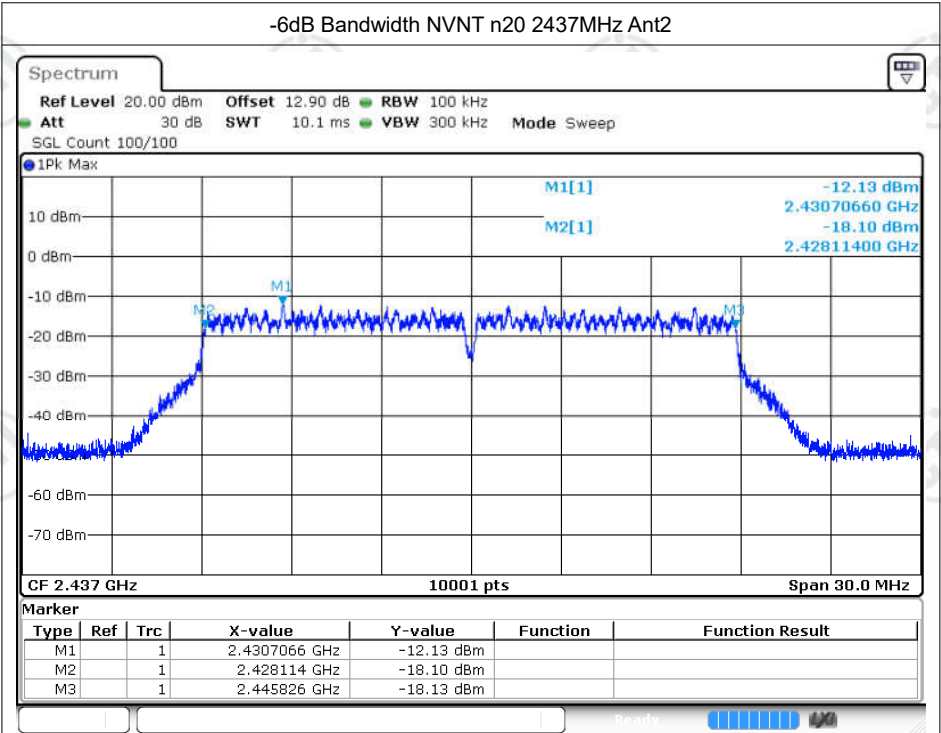
Date: 25.MAR.2023 11:21:52



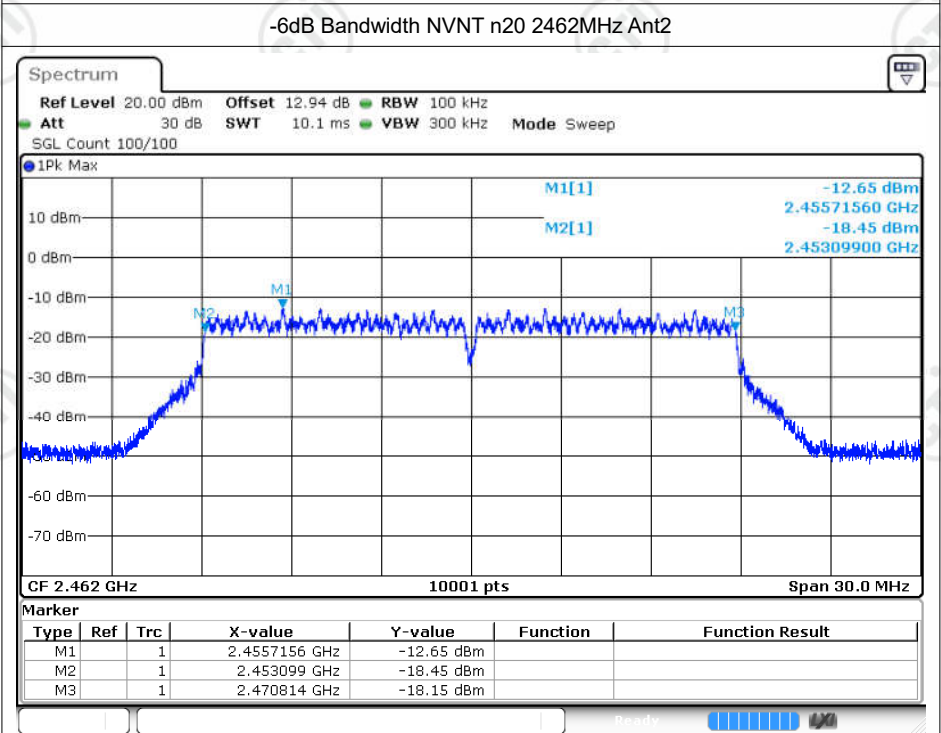
Date: 25.MAR.2023 11:24:24



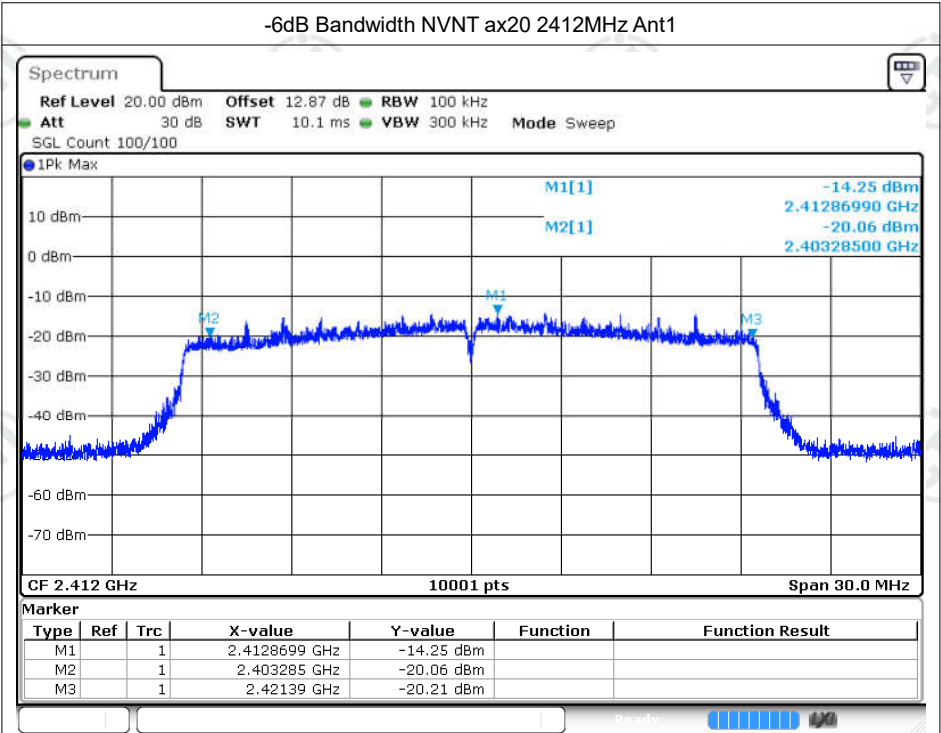
Date: 25.MAR.2023 13:02:06



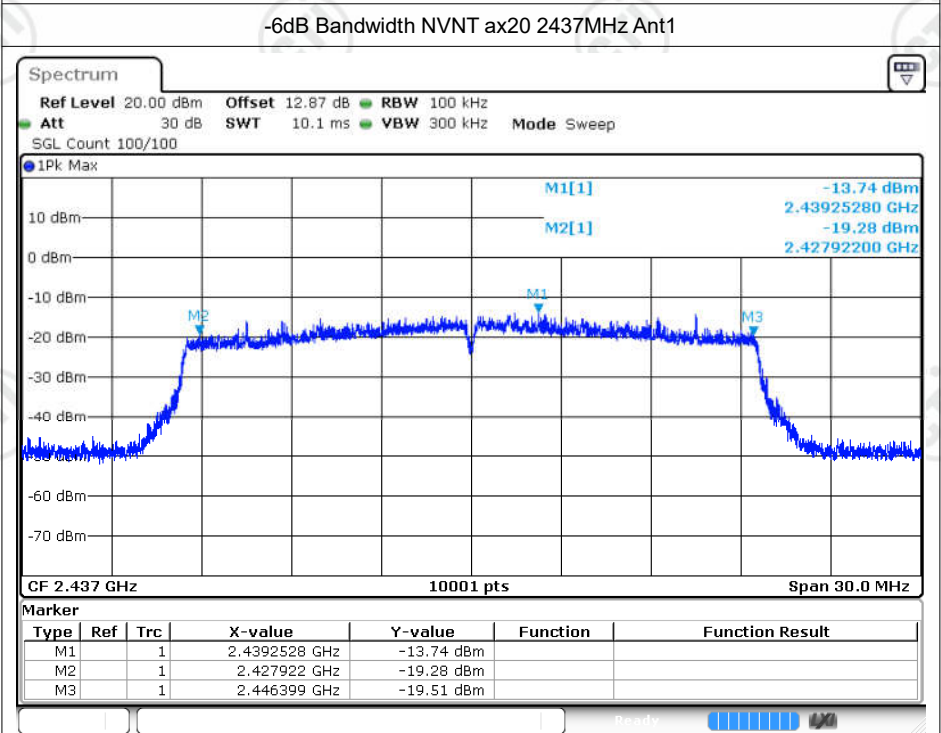
Date: 25.MAR.2023 13:05:29



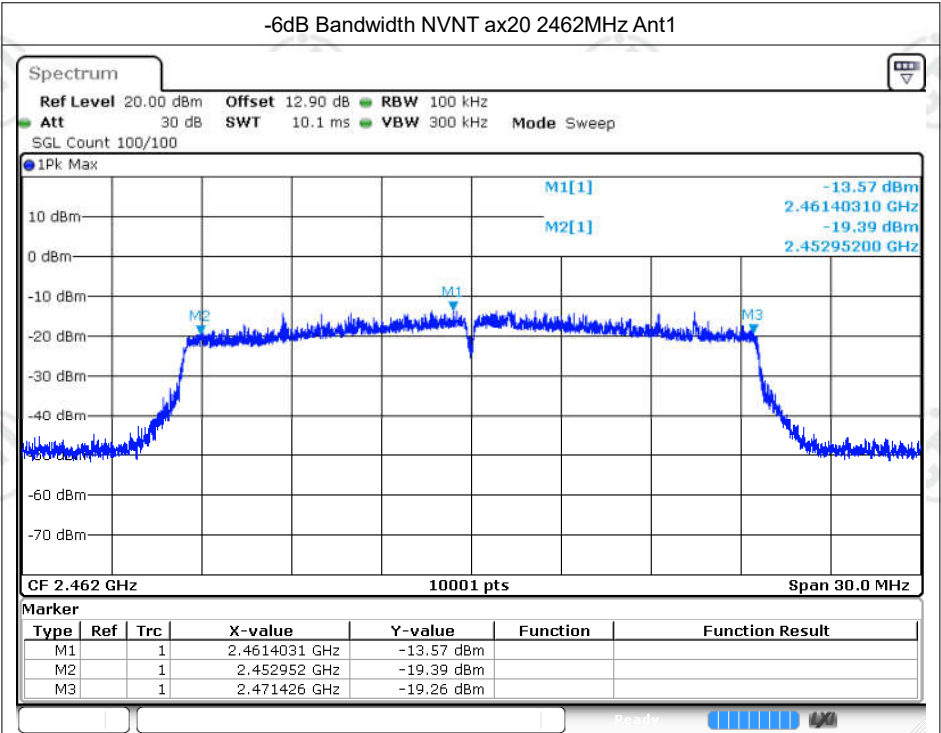
Date: 25.MAR.2023 13:13:32



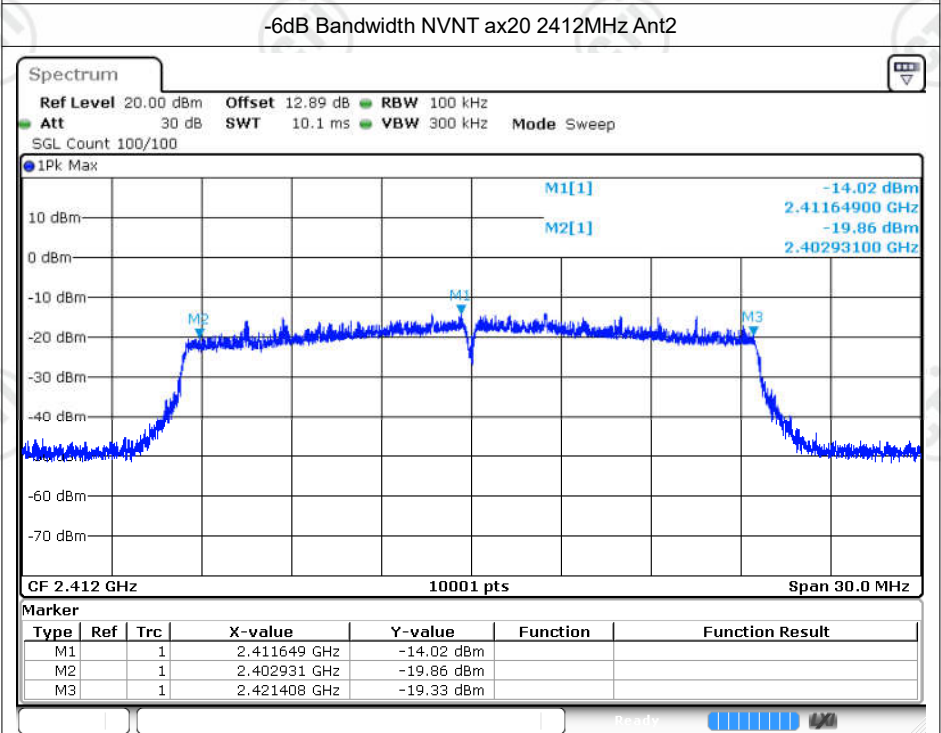
Date: 27. MAR 2023 13:12:49



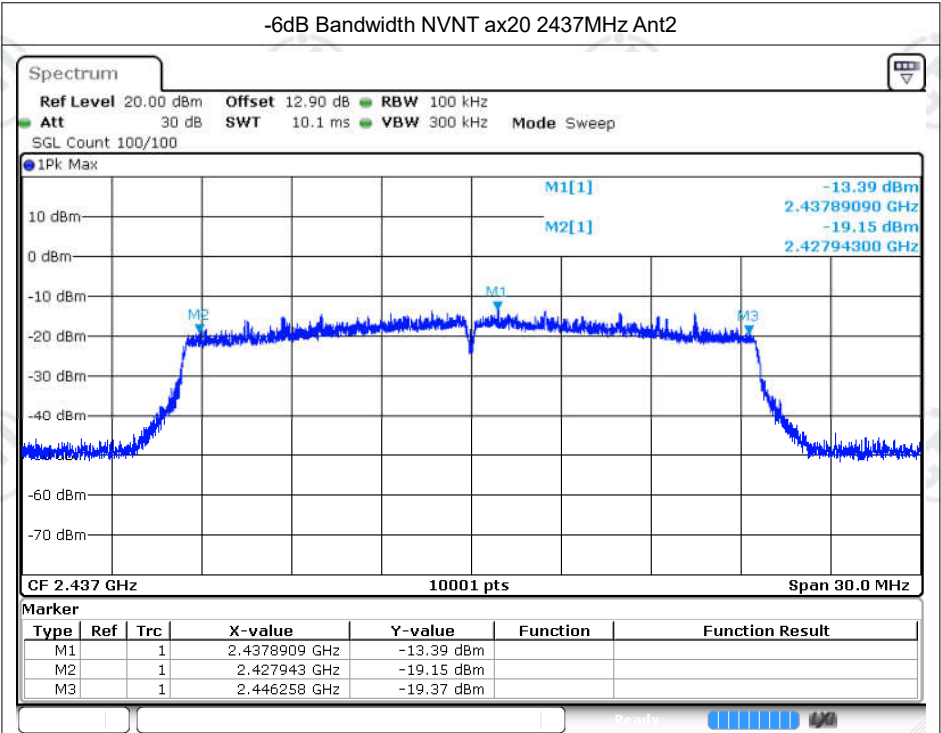
Date: 27. MAR 2023 13:15:23



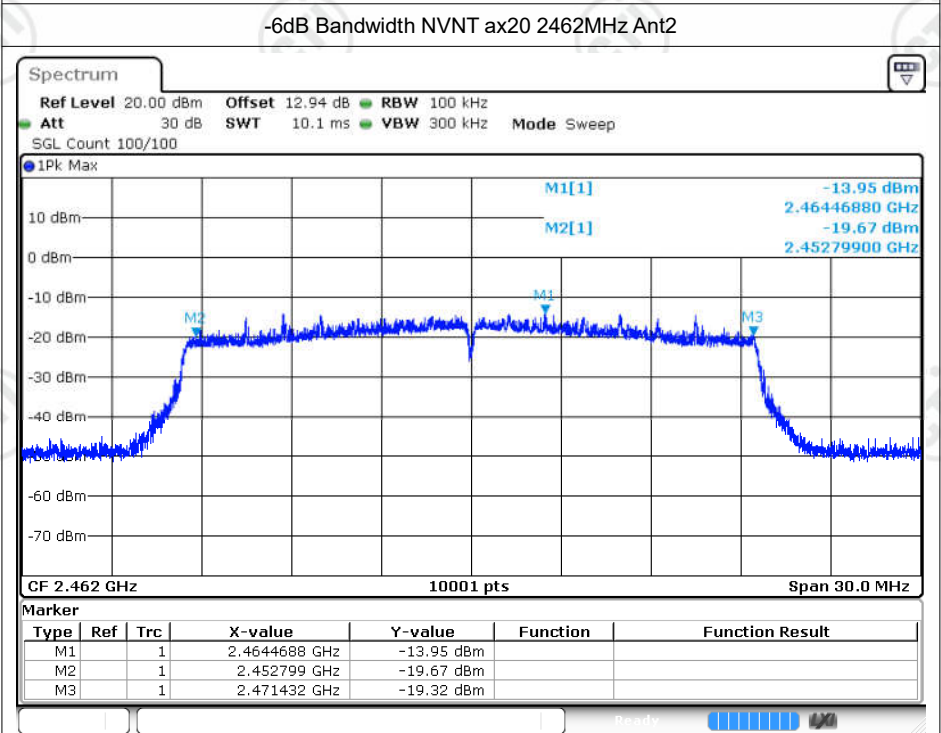
Date: 27.MAR.2023 13:17:06



Date: 27.MAR.2023 13:23:59



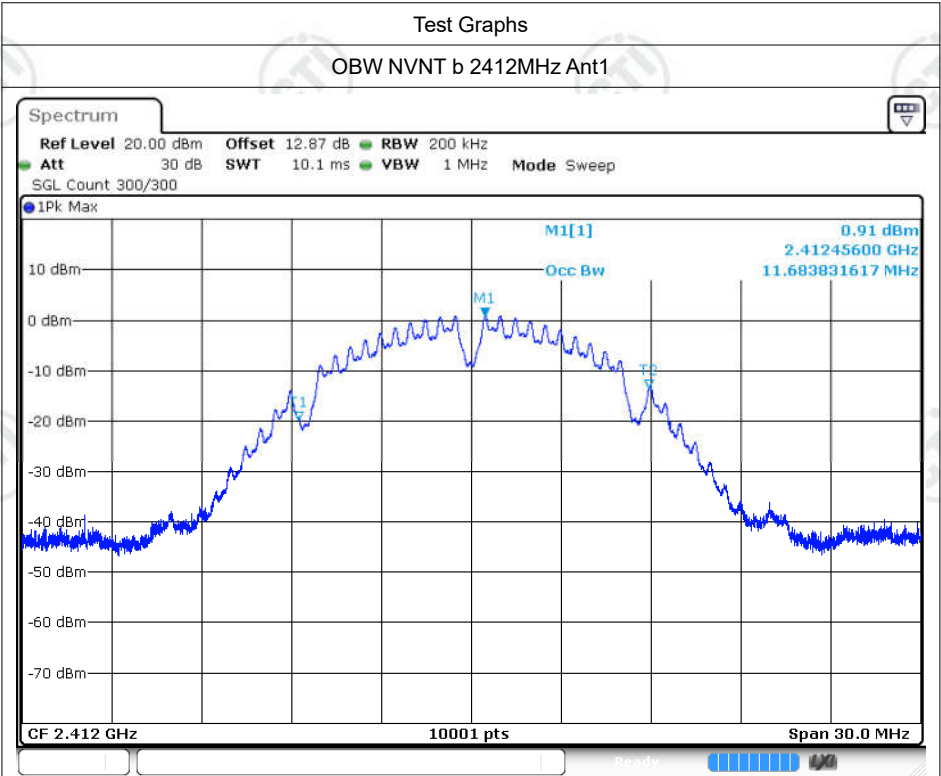
Date: 27. MAR 2023 13:28:18



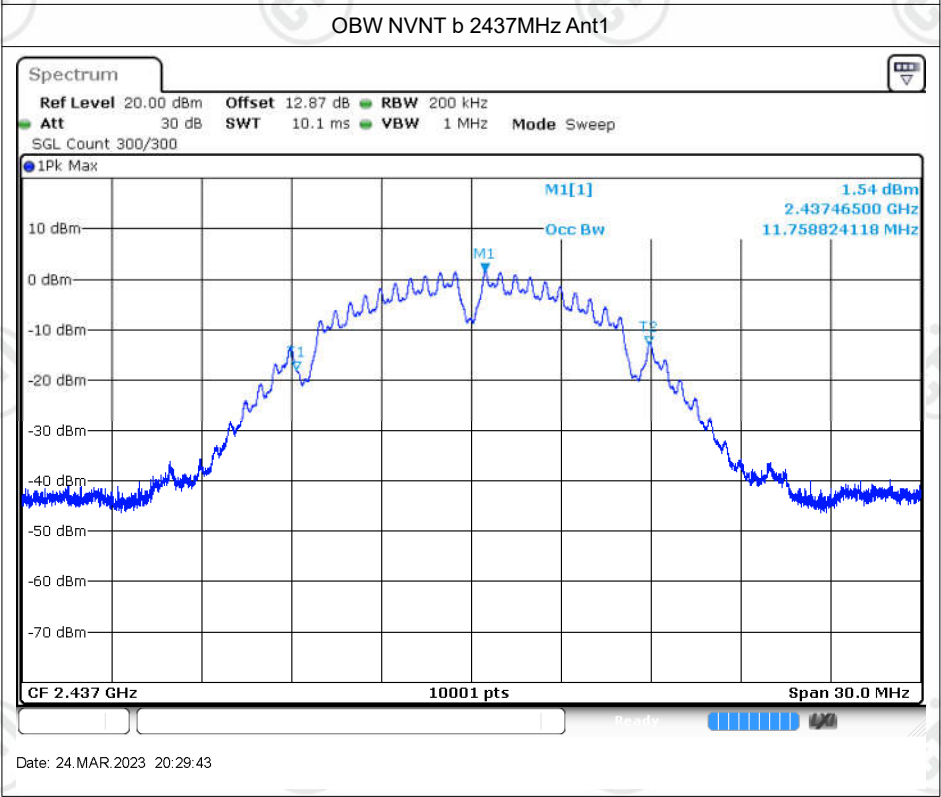
Date: 27. MAR 2023 13:30:20

Occupied Channel Bandwidth

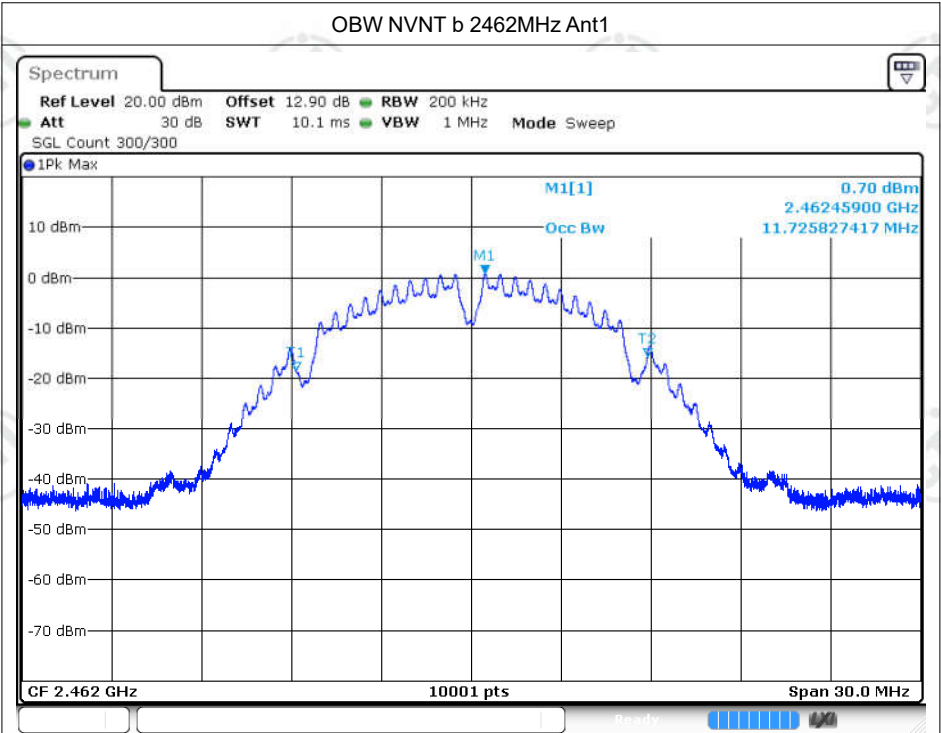
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	11.684
NVNT	b	2437	Ant1	11.759
NVNT	b	2462	Ant1	11.726
NVNT	b	2412	Ant2	11.762
NVNT	b	2437	Ant2	11.759
NVNT	b	2462	Ant2	11.777
NVNT	g	2412	Ant1	16.642
NVNT	g	2437	Ant1	16.636
NVNT	g	2462	Ant1	16.645
NVNT	g	2412	Ant2	16.522
NVNT	g	2437	Ant2	16.525
NVNT	g	2462	Ant2	16.528
NVNT	n20	2412	Ant1	17.797
NVNT	n20	2437	Ant1	17.788
NVNT	n20	2462	Ant1	17.797
NVNT	n20	2412	Ant2	17.782
NVNT	n20	2437	Ant2	17.77
NVNT	n20	2462	Ant2	17.788
NVNT	ax20	2412	Ant1	18.988
NVNT	ax20	2437	Ant1	18.889
NVNT	ax20	2462	Ant1	18.877
NVNT	ax20	2412	Ant2	18.895
NVNT	ax20	2437	Ant2	18.892
NVNT	ax20	2462	Ant2	18.892



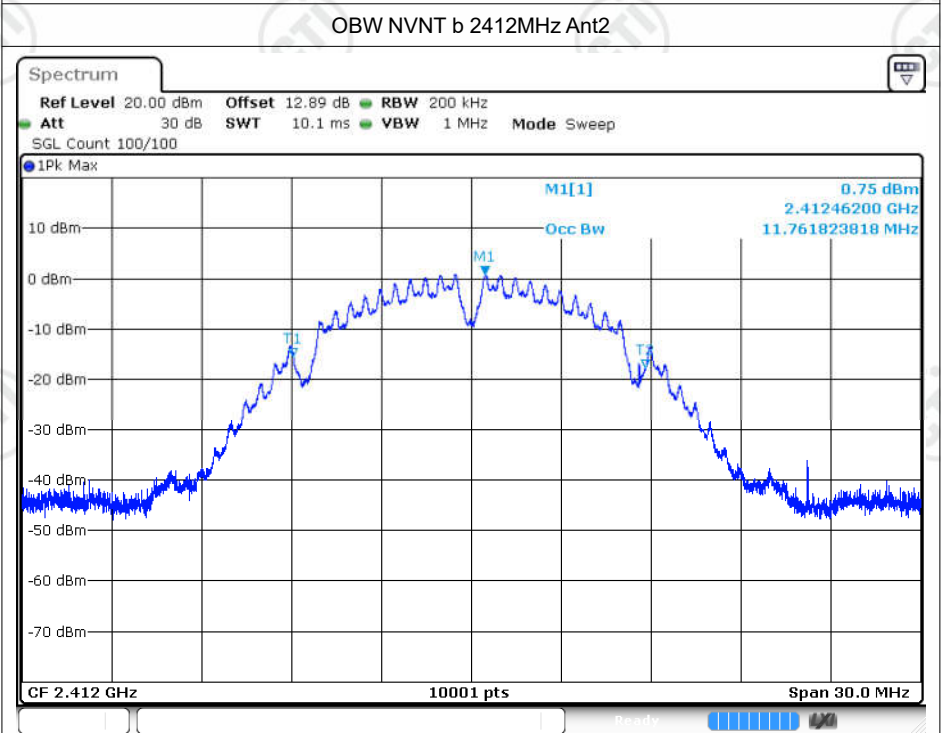
Date: 24.MAR.2023 20:27:31



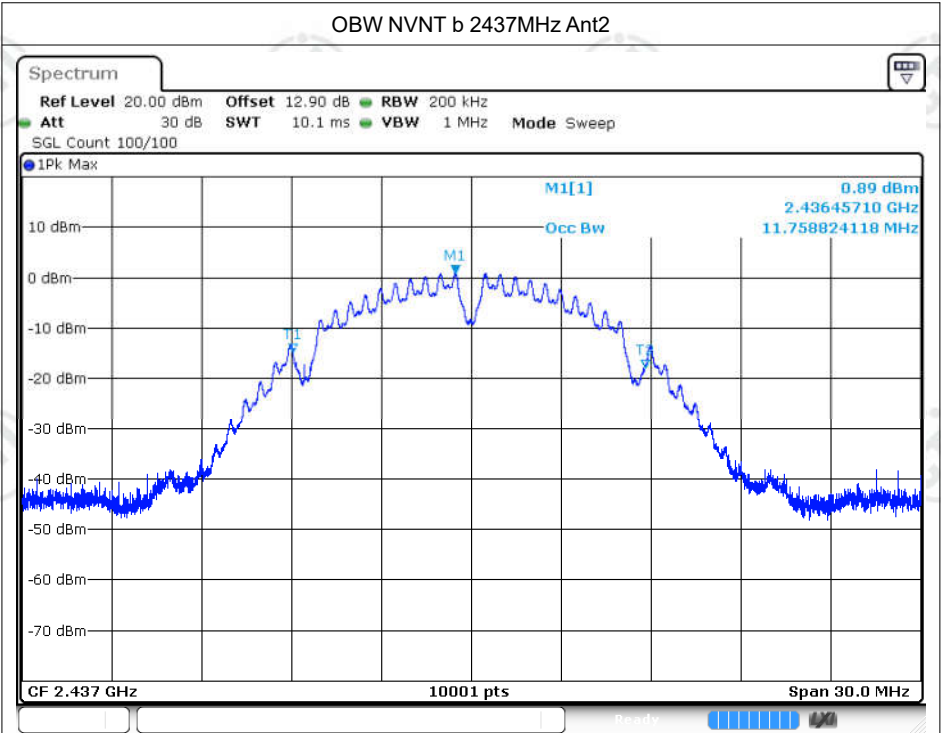
Date: 24.MAR.2023 20:29:43



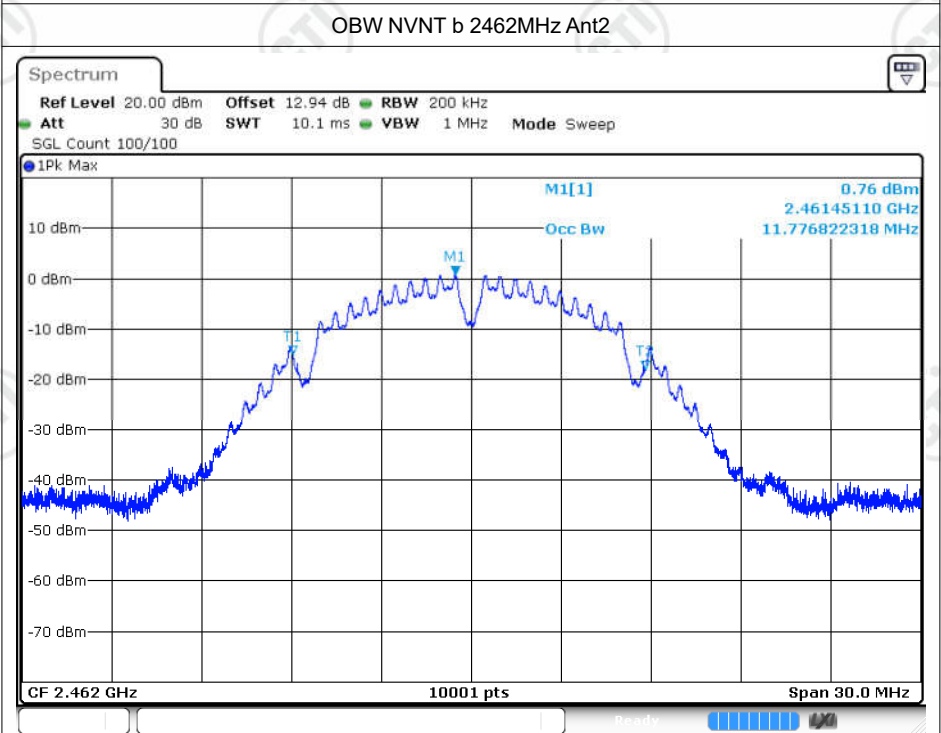
Date: 24.MAR.2023 20:32:23



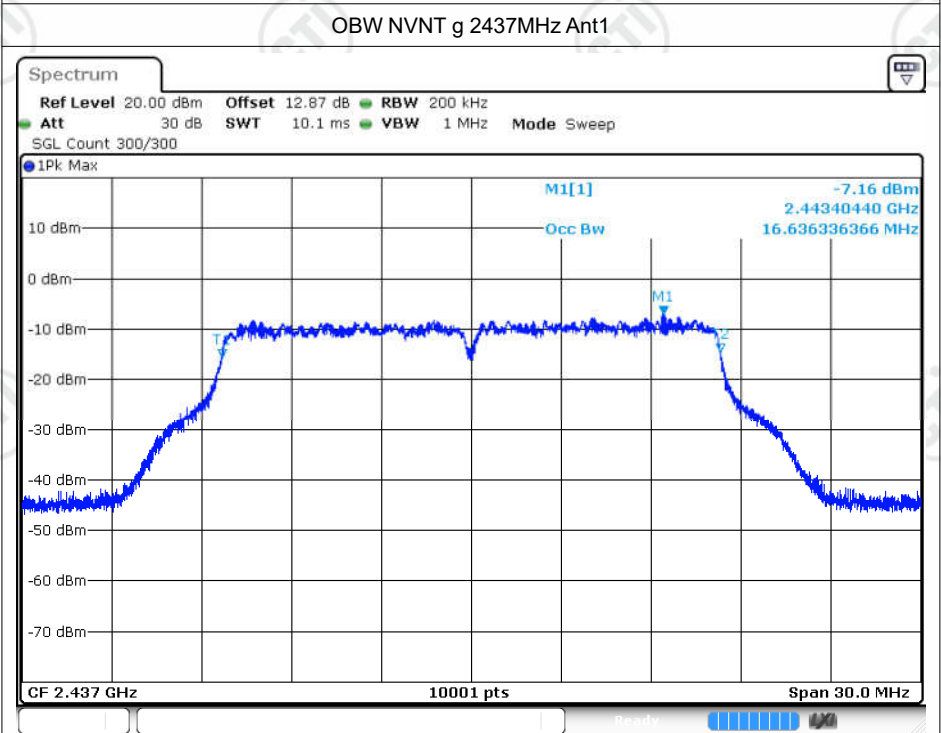
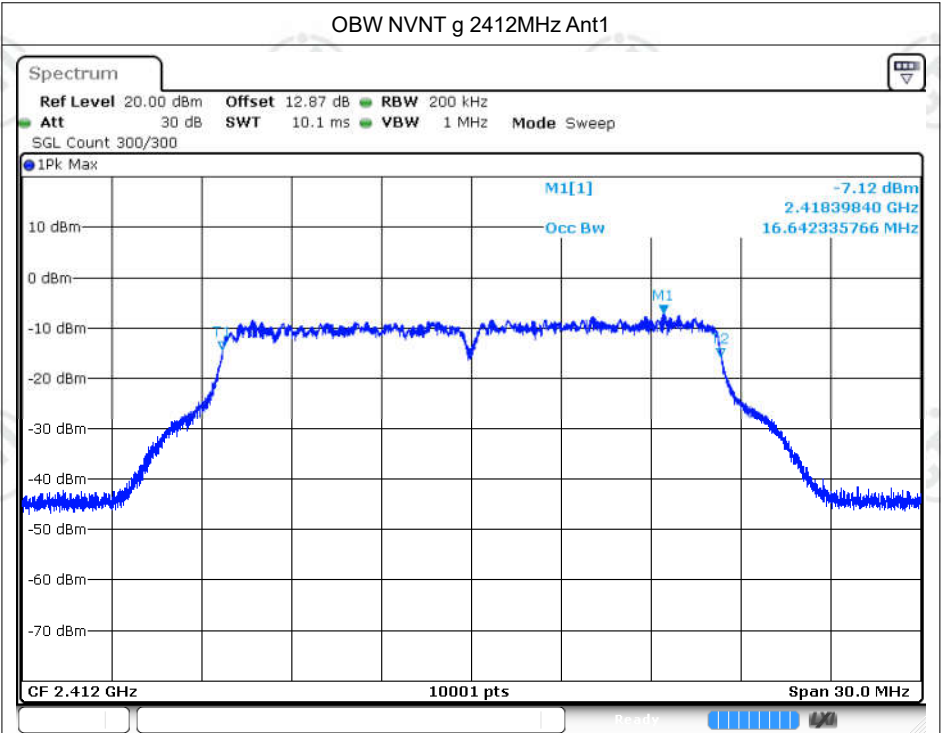
Date: 25.MAR.2023 12:38:52

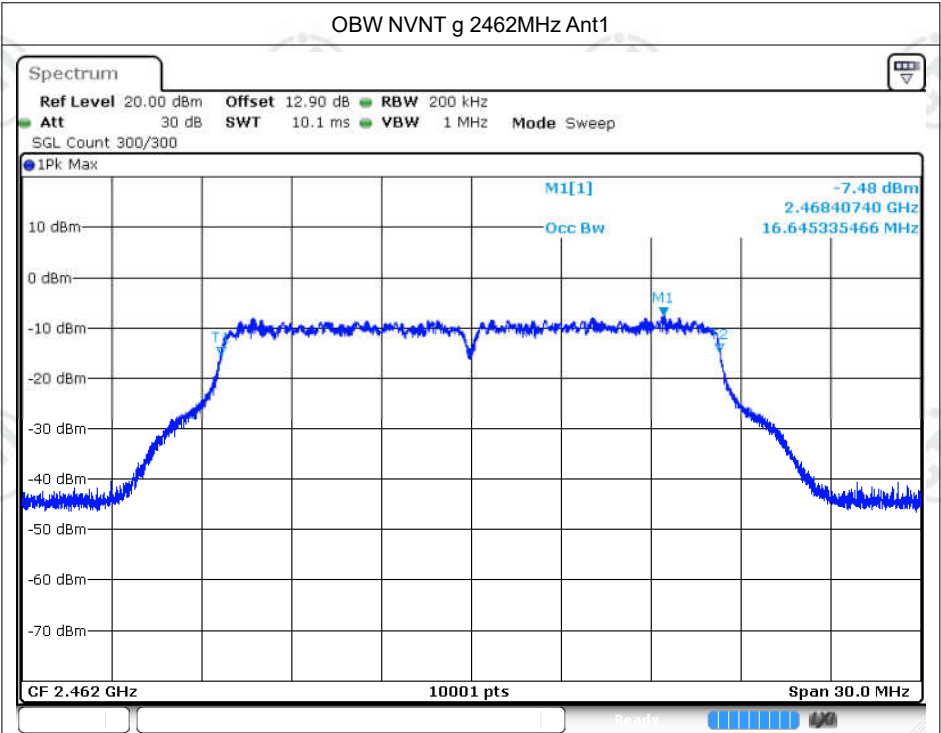


Date: 25.MAR.2023 12:43:16

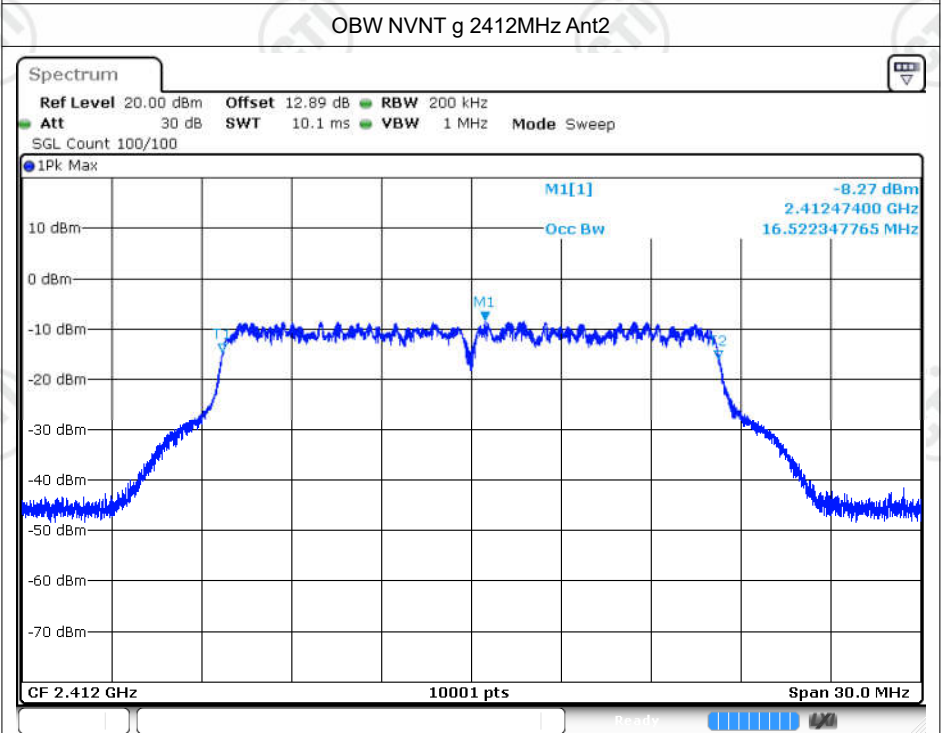


Date: 25.MAR.2023 12:45:30

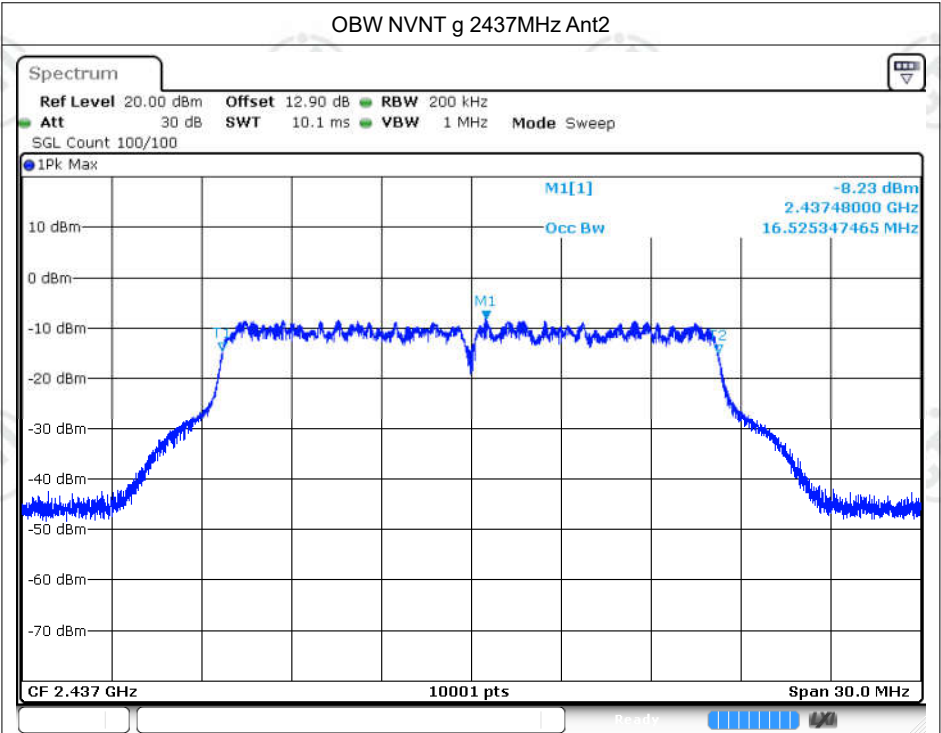




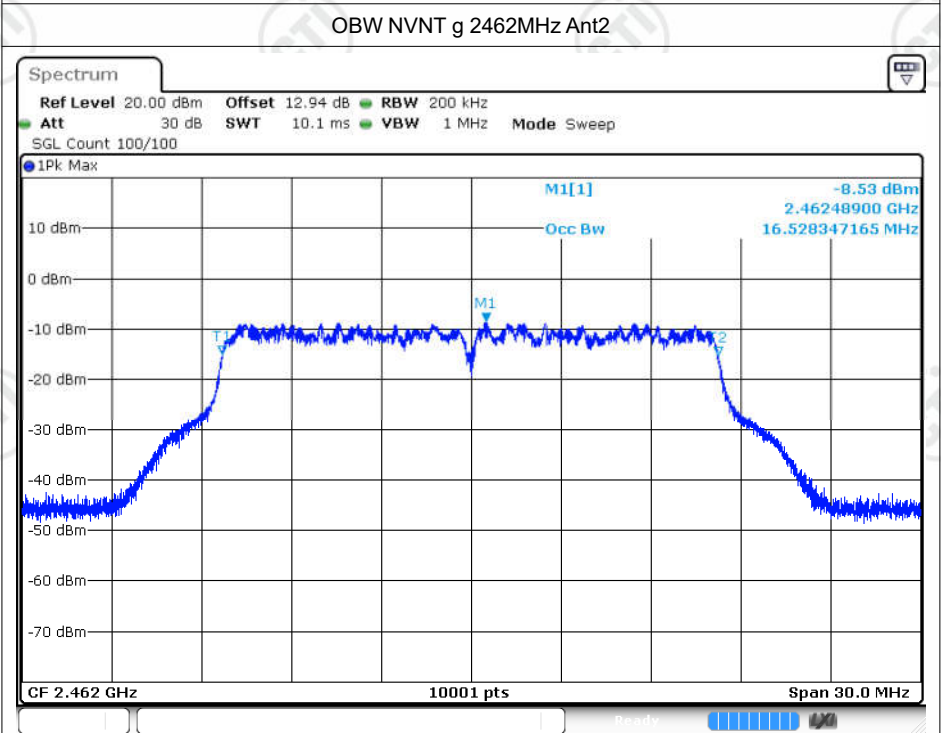
Date: 24.MAR.2023 20:41:23



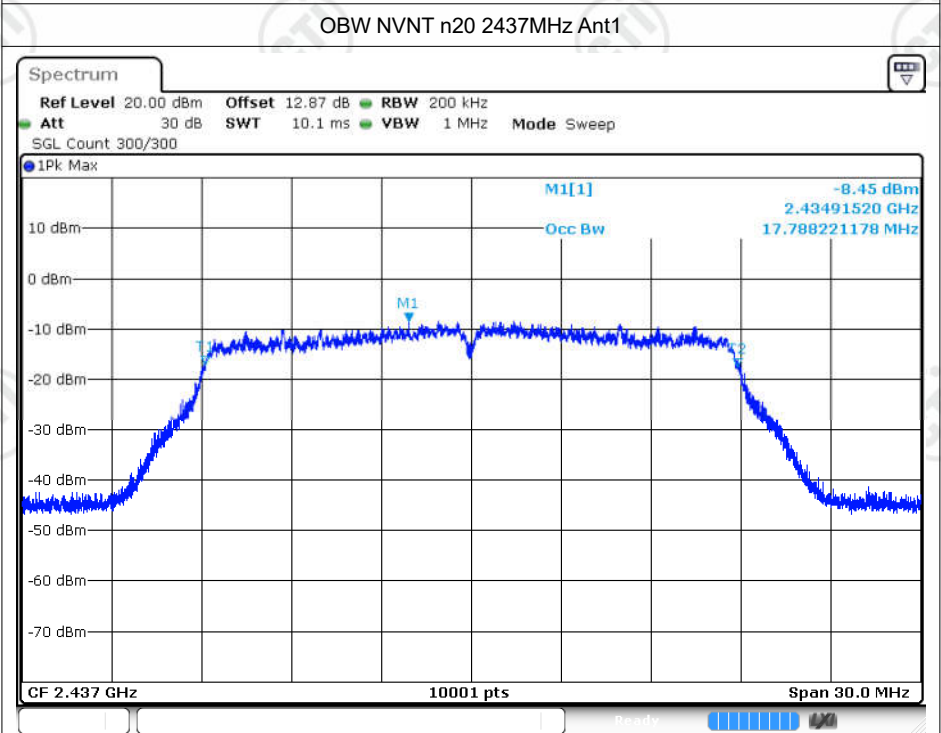
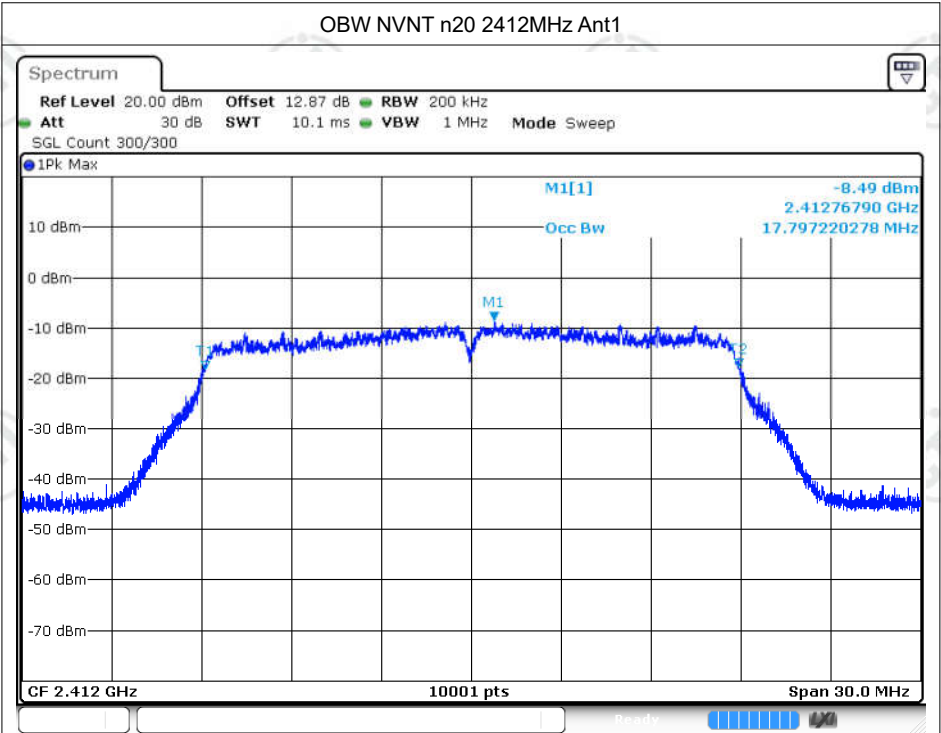
Date: 25.MAR.2023 12:52:01

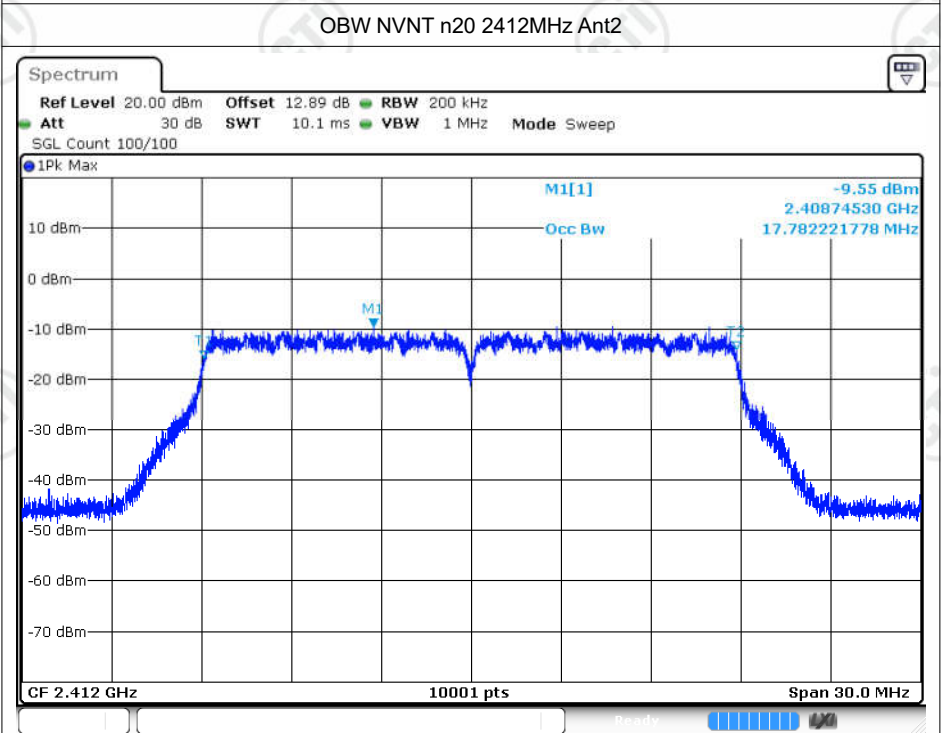
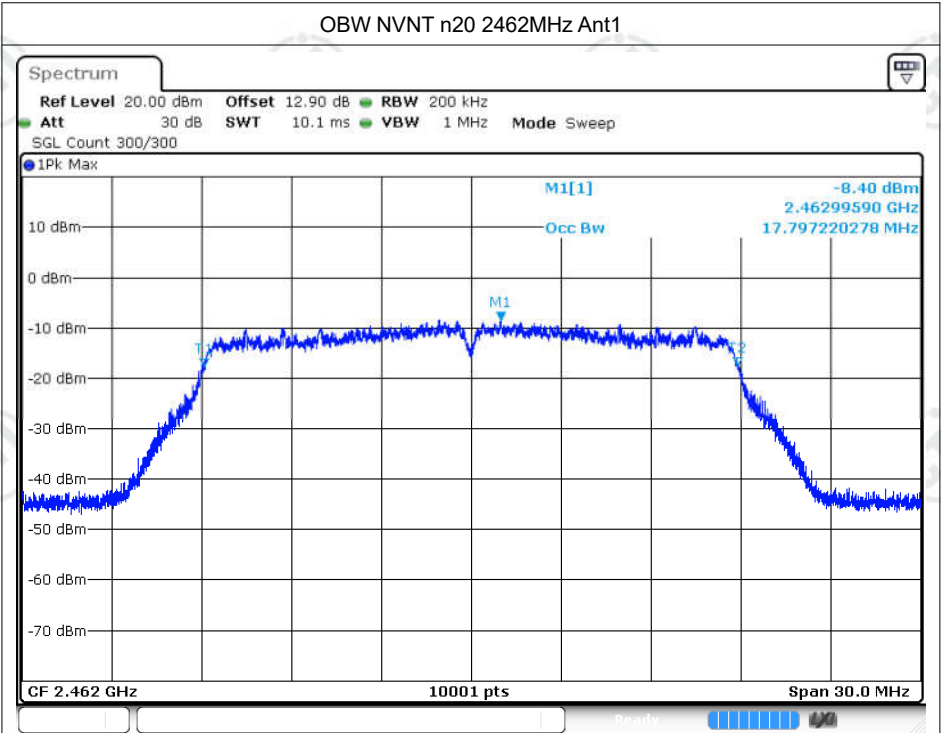


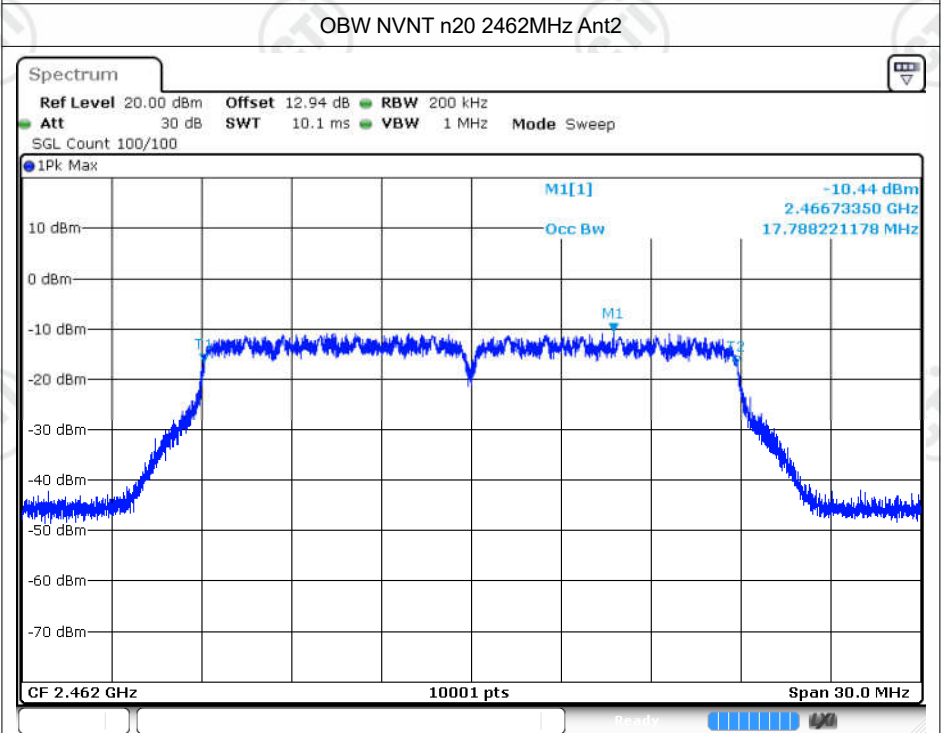
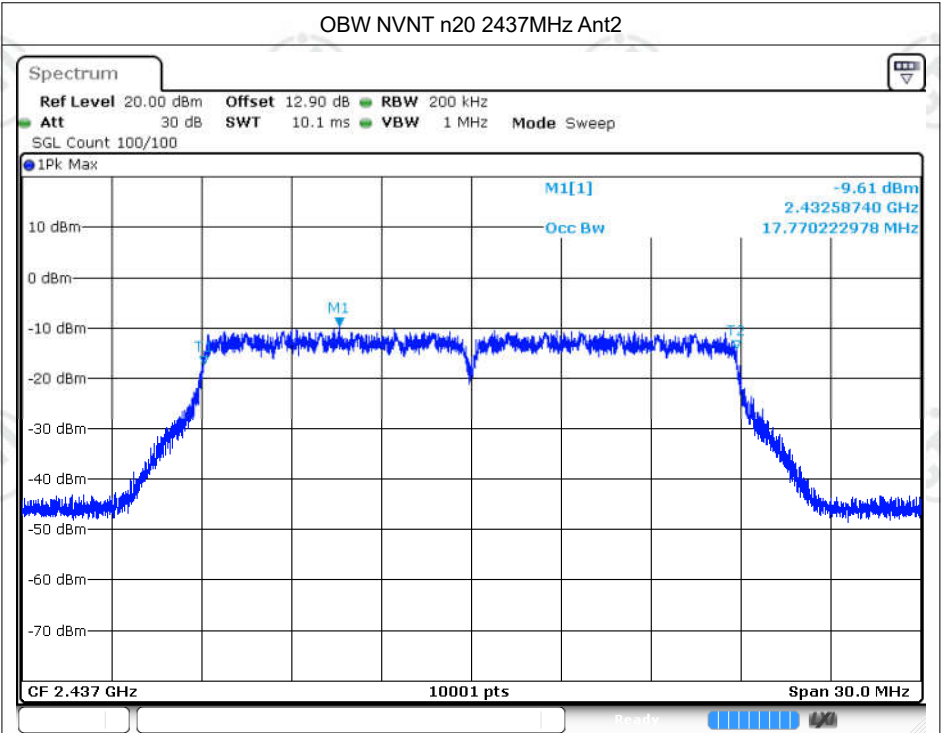
Date: 25.MAR.2023 12:55:12

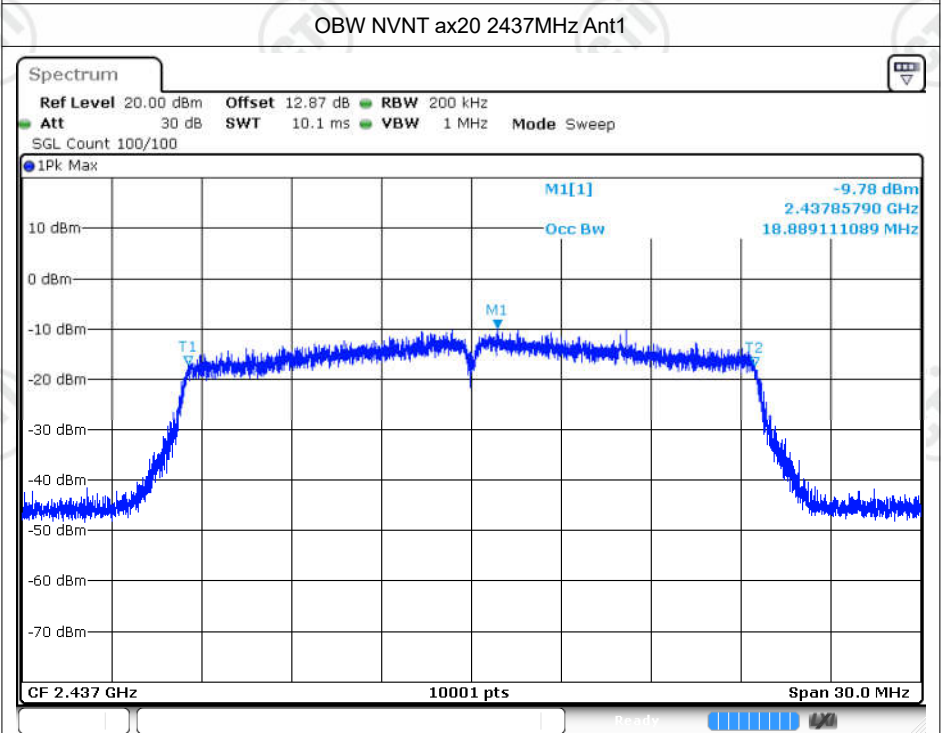
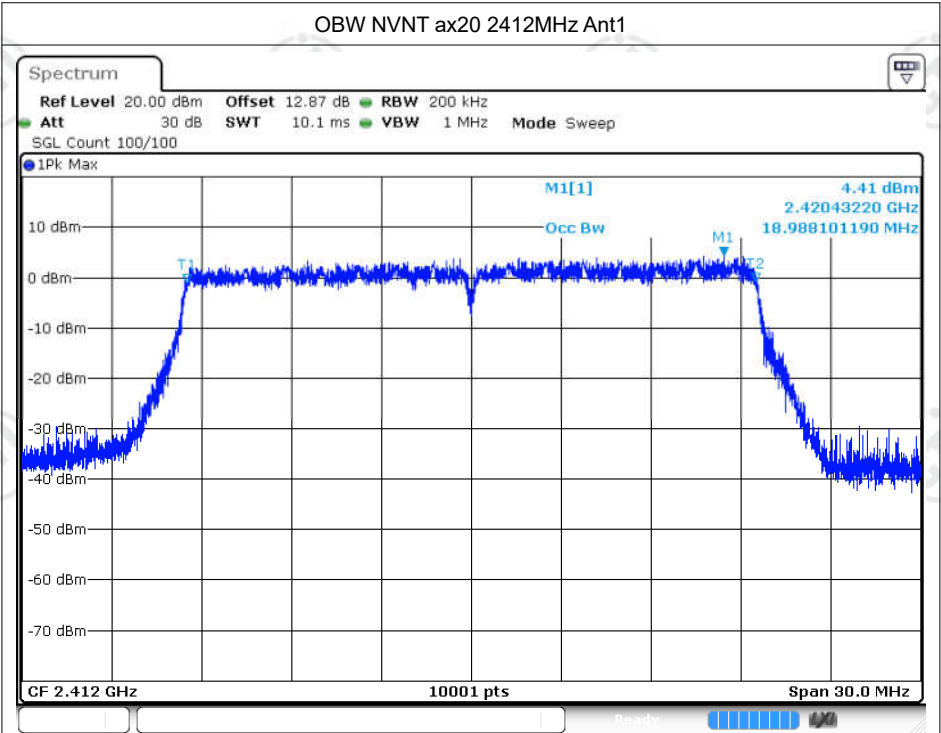


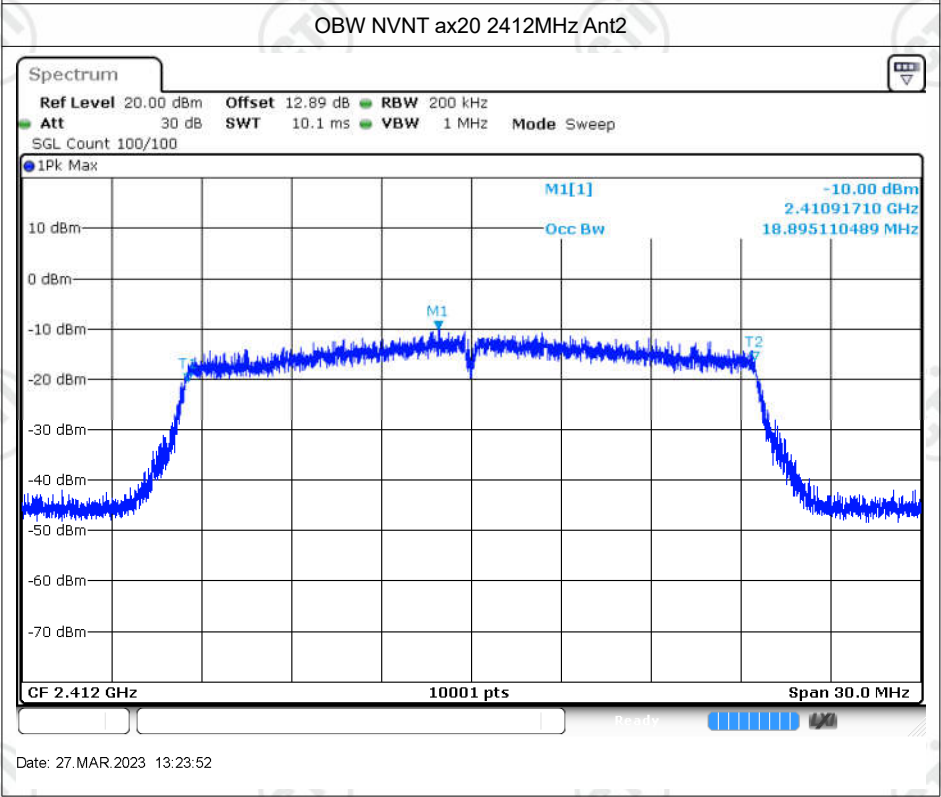
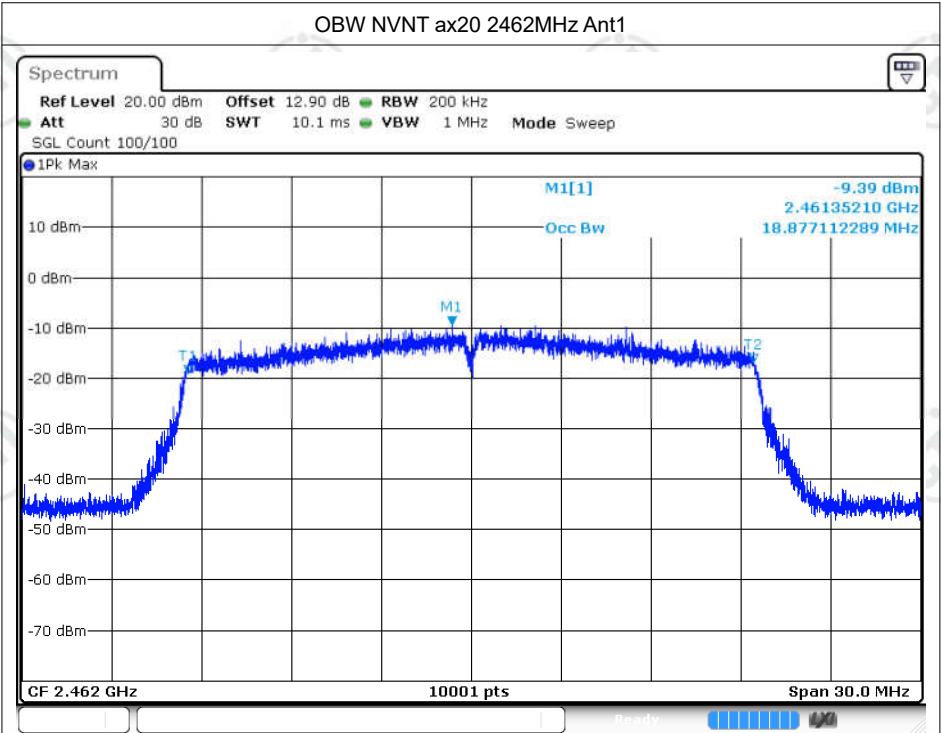
Date: 25.MAR.2023 12:58:30

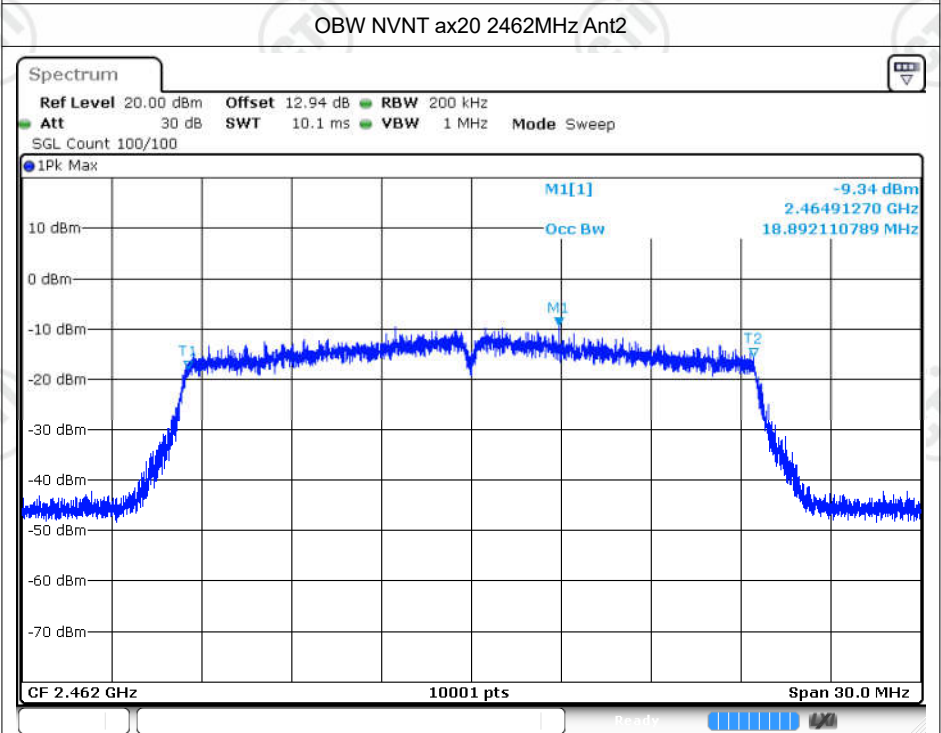
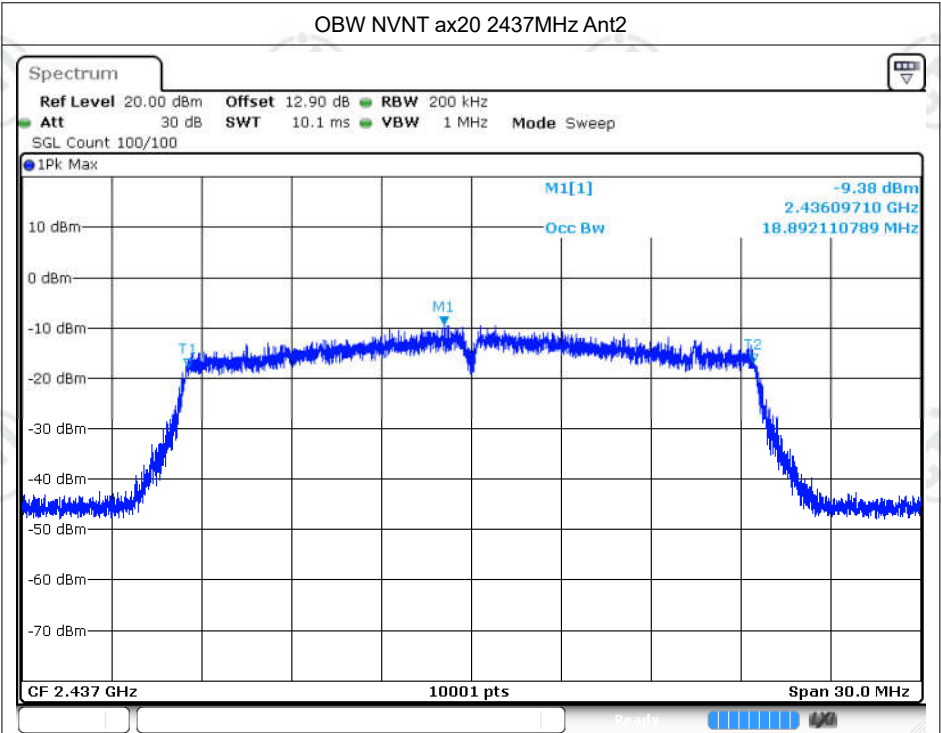








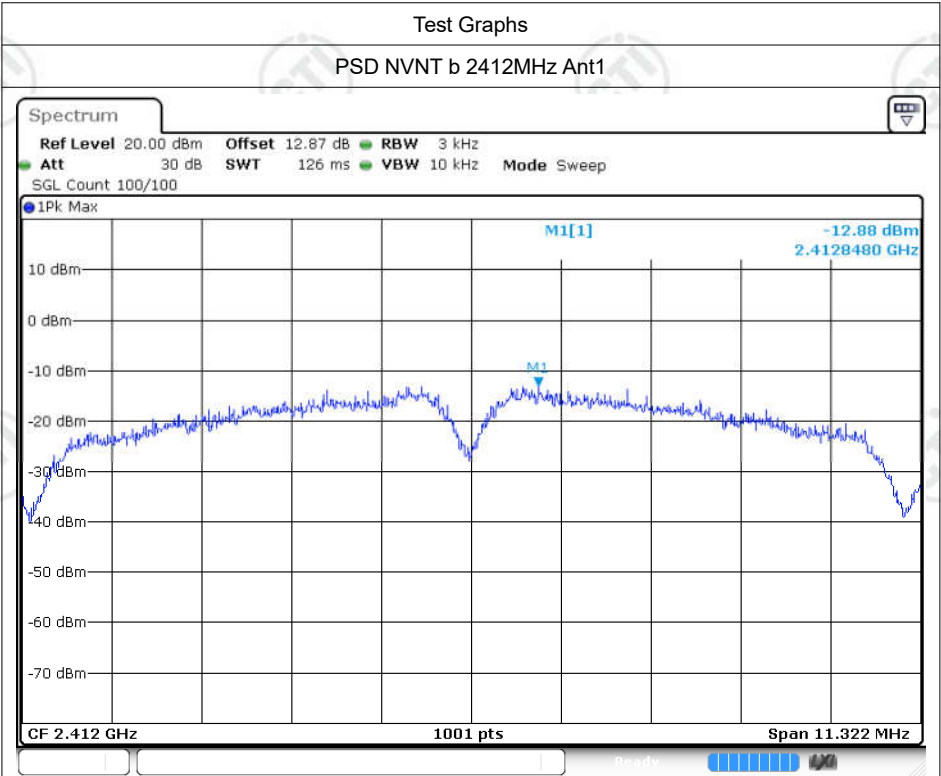




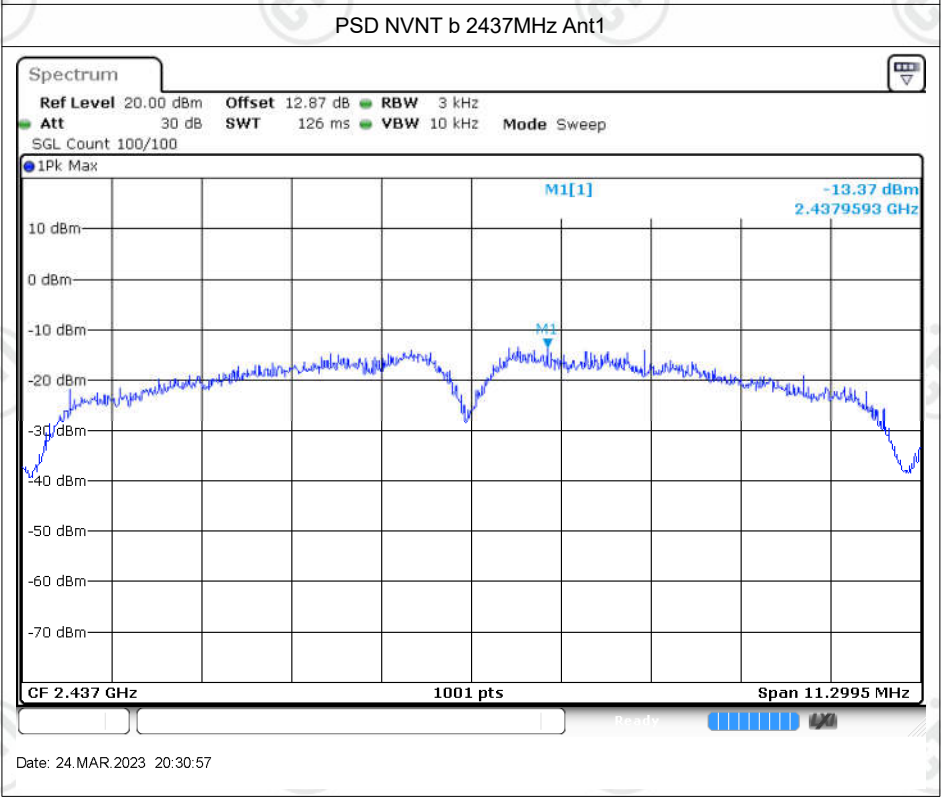
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-12.88	0	-12.88	8	Pass
NVNT	b	2437	Ant1	-13.37	0	-13.37	8	Pass
NVNT	b	2462	Ant1	-11.65	0	-11.65	8	Pass
NVNT	b	2412	Ant2	-13.07	0	-13.07	8	Pass
NVNT	b	2437	Ant2	-12.53	0	-12.53	8	Pass
NVNT	b	2462	Ant2	-13.05	0	-13.05	8	Pass
NVNT	g	2412	Ant1	-21.62	0	-21.62	8	Pass
NVNT	g	2437	Ant1	-21.88	0	-21.88	8	Pass
NVNT	g	2462	Ant1	-21.62	0	-21.62	8	Pass
NVNT	g	2412	Ant2	-21.48	0	-21.48	8	Pass
NVNT	g	2437	Ant2	-21.02	0	-21.02	8	Pass
NVNT	g	2462	Ant2	-21.27	0	-21.27	8	Pass
NVNT	n20	2412	Ant1	-23.19	0	-23.19	8	Pass
NVNT	n20	2437	Ant1	-23.24	0	-23.24	8	Pass
NVNT	n20	2462	Ant1	-23.02	0	-23.02	8	Pass
NVNT	n20	2412	Ant2	-23.33	0	-23.33	8	Pass
NVNT	n20	2437	Ant2	-22.75	0	-22.75	8	Pass
NVNT	n20	2462	Ant2	-23.49	0	-23.49	8	Pass
NVNT	n20	2412	Ant1	-24.98	0	-24.98	8	Pass
NVNT	n20	2412	Ant2	-33.02	0	-33.02	8	Pass
NVNT	n20	2412	Sum	-24.35	0	-24.35	8	Pass
NVNT	n20	2437	Ant1	-24.76	0	-24.76	8	Pass
NVNT	n20	2437	Ant2	-33.48	0	-33.48	8	Pass
NVNT	n20	2437	Sum	-24.21	0	-24.21	8	Pass
NVNT	n20	2462	Ant1	-25.27	0	-25.27	8	Pass
NVNT	n20	2462	Ant2	-33.88	0	-33.88	8	Pass
NVNT	n20	2462	Sum	-24.71	0	-24.71	8	Pass
NVNT	ax20	2412	Ant1	-25.6	0	-25.6	8	Pass
NVNT	ax20	2437	Ant1	-26.42	0	-26.42	8	Pass
NVNT	ax20	2462	Ant1	-24.57	0	-24.57	8	Pass
NVNT	ax20	2412	Ant2	-24.79	0	-24.79	8	Pass
NVNT	ax20	2437	Ant2	-26.07	0	-26.07	8	Pass
NVNT	ax20	2462	Ant2	-24.57	0	-24.57	8	Pass
NVNT	ax20	2412	Ant1	-24.55	0	-24.55	8	Pass
NVNT	ax20	2412	Ant2	-33.54	0	-33.54	8	Pass
NVNT	ax20	2412	Sum	-24.03	0	-24.03	8	Pass
NVNT	ax20	2437	Ant1	-24.65	0	-24.65	8	Pass

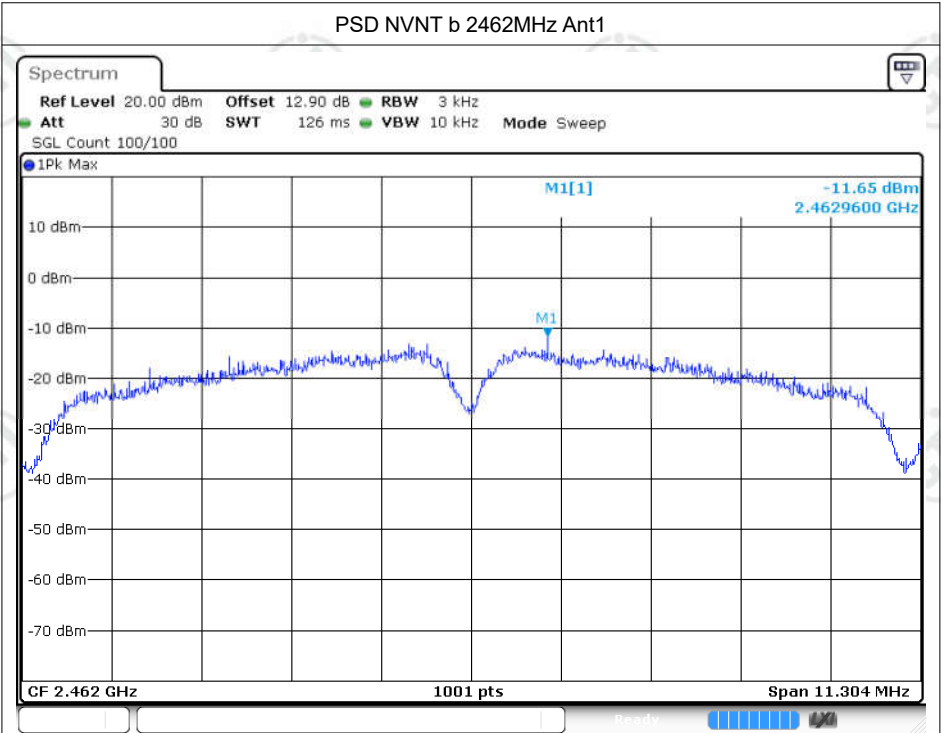
NVNT	ax20	2437	Ant2	-33.77	0	-33.77	8	Pass
NVNT	ax20	2437	Sum	-24.15	0	-24.15	8	Pass
NVNT	ax20	2462	Ant1	-24.4	0	-24.4	8	Pass
NVNT	ax20	2462	Ant2	-34.3	0	-34.3	8	Pass
NVNT	ax20	2462	Sum	-23.98	0	-23.98	8	Pass



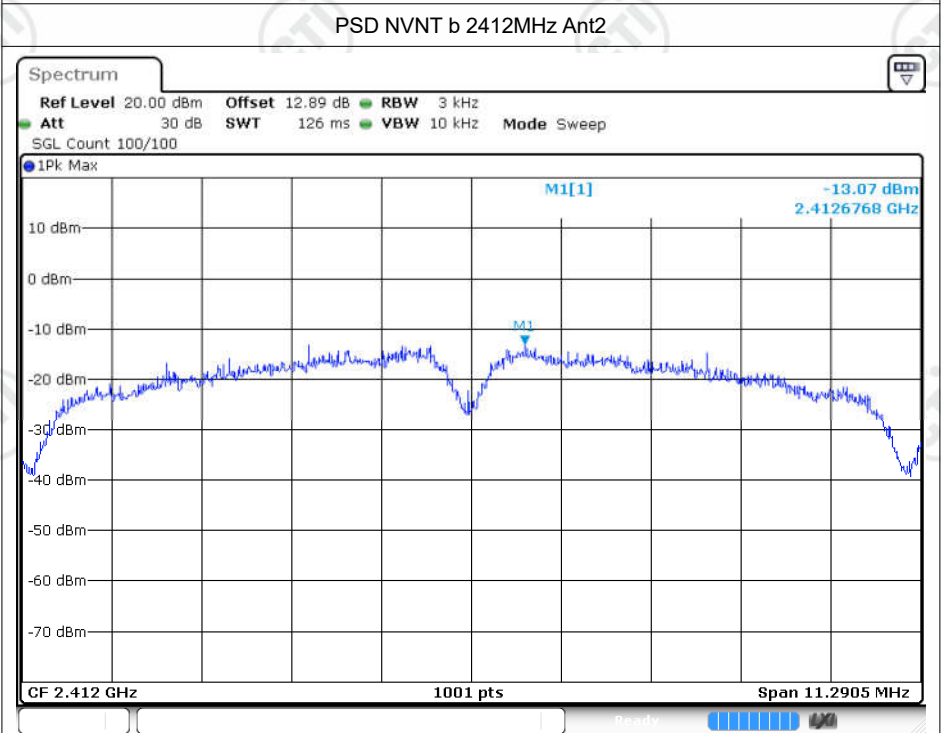
Date: 24.MAR.2023 20:28:00



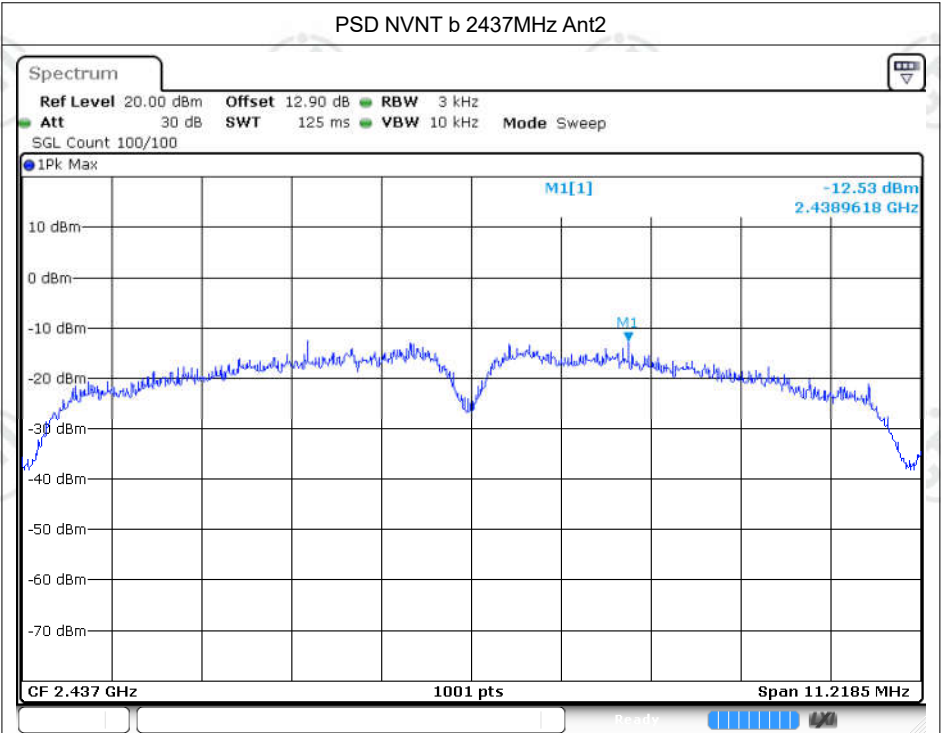
Date: 24.MAR.2023 20:30:57



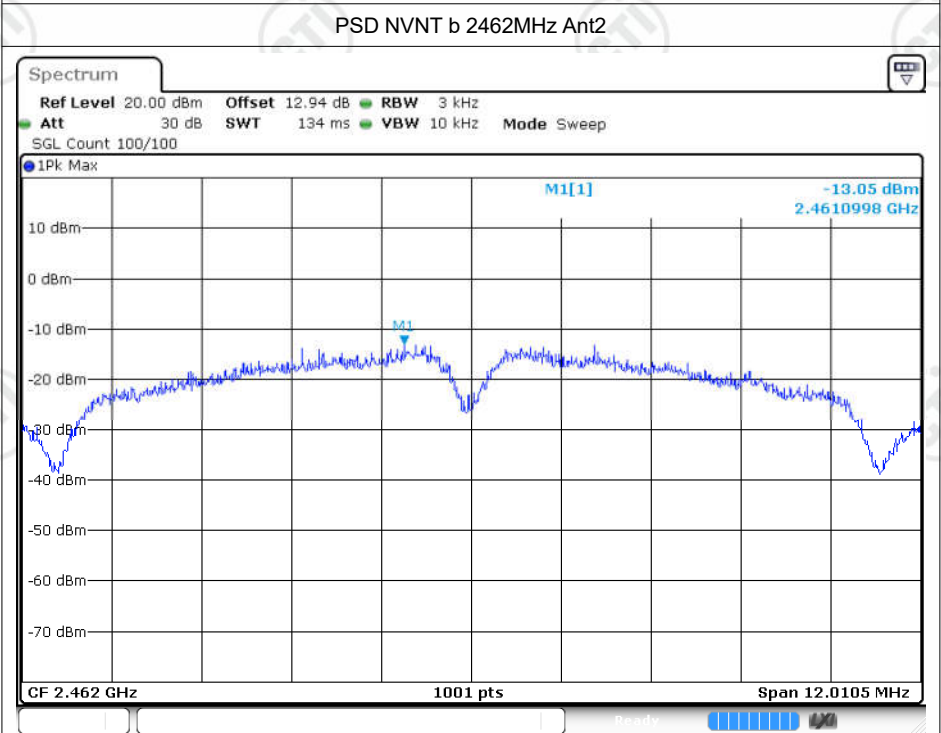
Date: 24.MAR.2023 20:32:54



Date: 25.MAR.2023 12:39:20



Date: 25.MAR.2023 12:43:44



Date: 25.MAR.2023 12:45:59

