

Appendix: 2.4G Wi-Fi

Contents

Duty Cycle.....3

Maximum Peak Conducted Output Power 10

-6dB Bandwidth 11

Occupied Channel Bandwidth 18

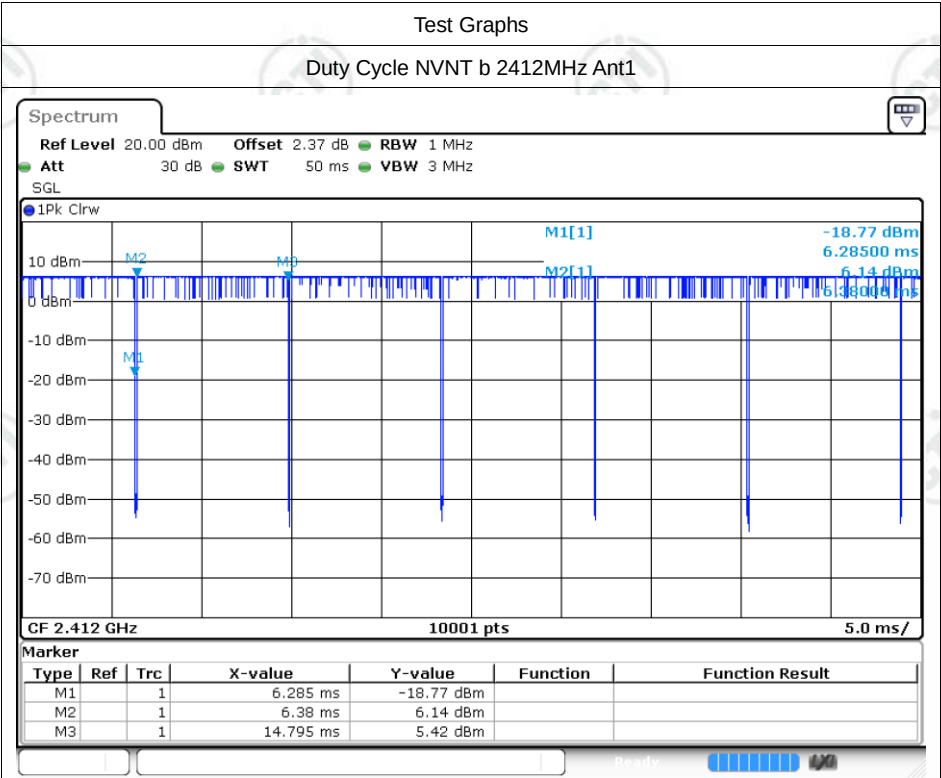
Maximum Power Spectral Density Level.....25

Band Edge 32

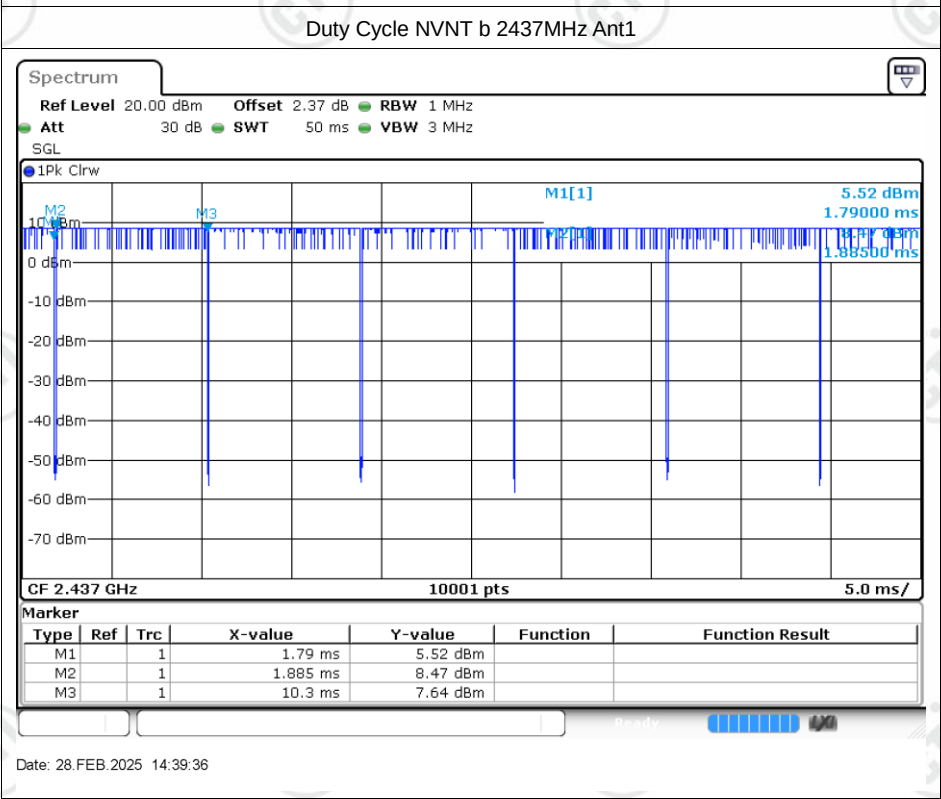
Conducted RF Spurious Emission 41

Duty Cycle

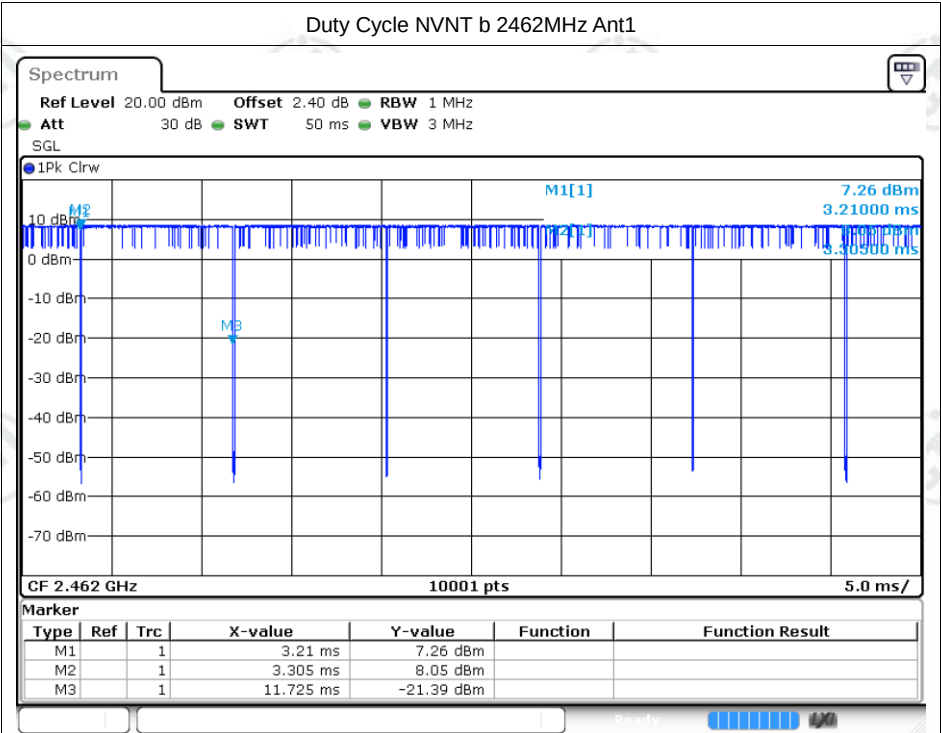
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	98.88	0	0.12
NVNT	b	2437	Ant1	98.88	0	0.12
NVNT	b	2462	Ant1	98.88	0	0.12
NVNT	g	2412	Ant1	93.19	0.31	0.72
NVNT	g	2437	Ant1	93.19	0.31	0.72
NVNT	g	2462	Ant1	93.1	0.31	0.72
NVNT	n20	2412	Ant1	92.84	0.32	0.76
NVNT	n20	2437	Ant1	92.84	0.32	0.76
NVNT	n20	2462	Ant1	92.78	0.33	0.76
NVNT	n40	2422	Ant1	94.07	0.27	1.54
NVNT	n40	2437	Ant1	94.07	0.27	1.54
NVNT	n40	2452	Ant1	94.07	0.27	1.54



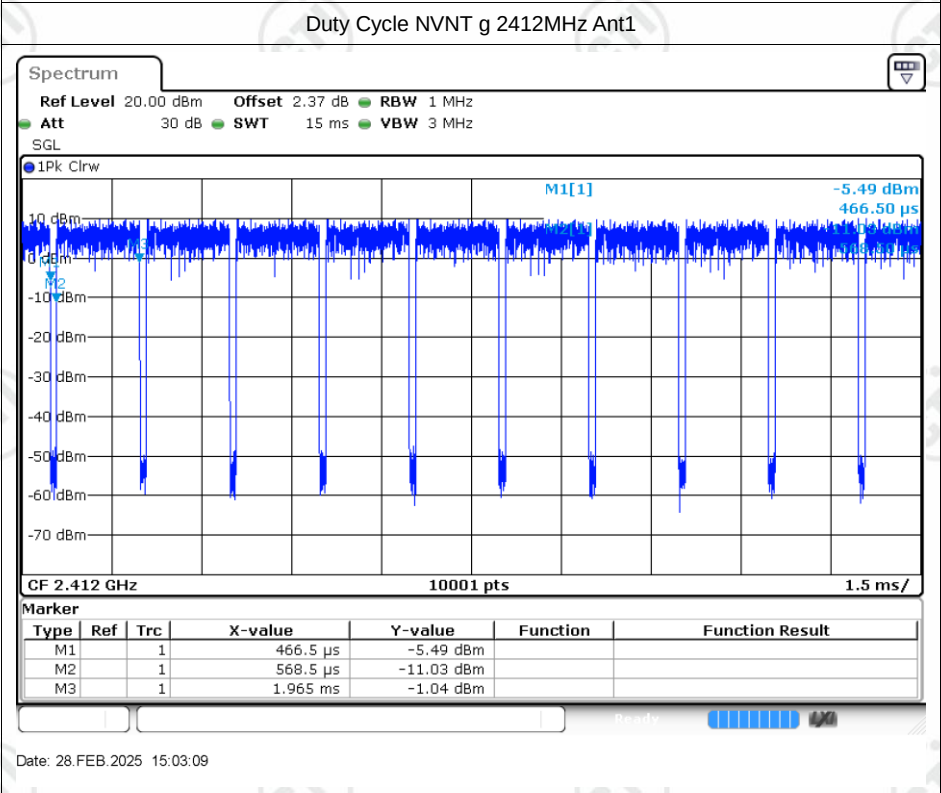
Date: 28.FEB.2025 14:36:02



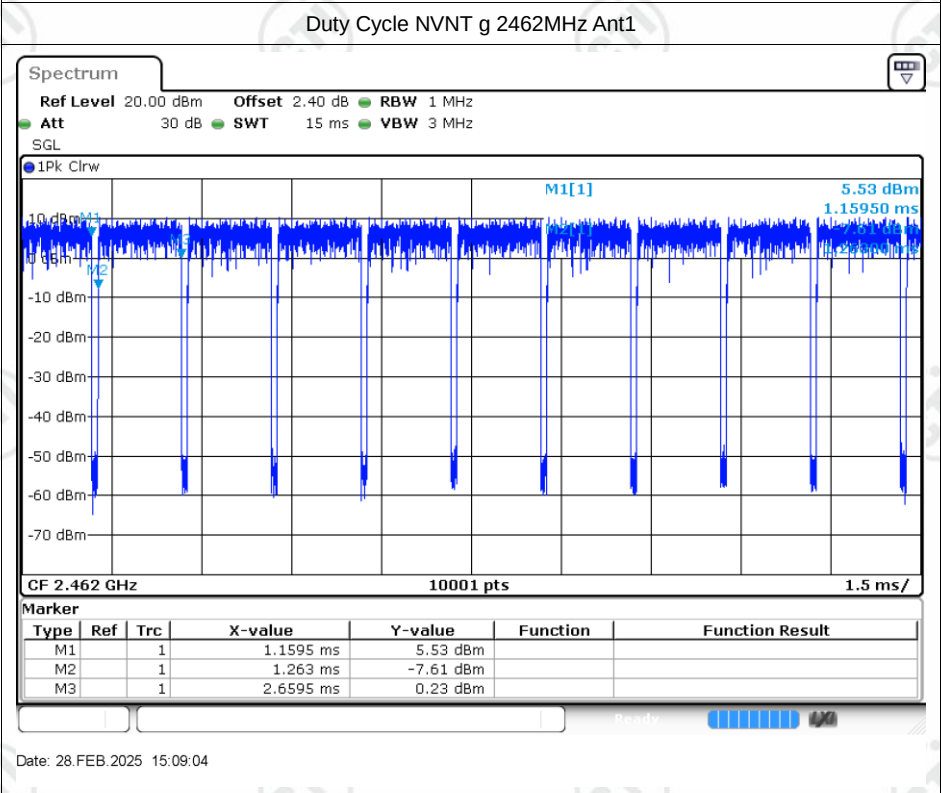
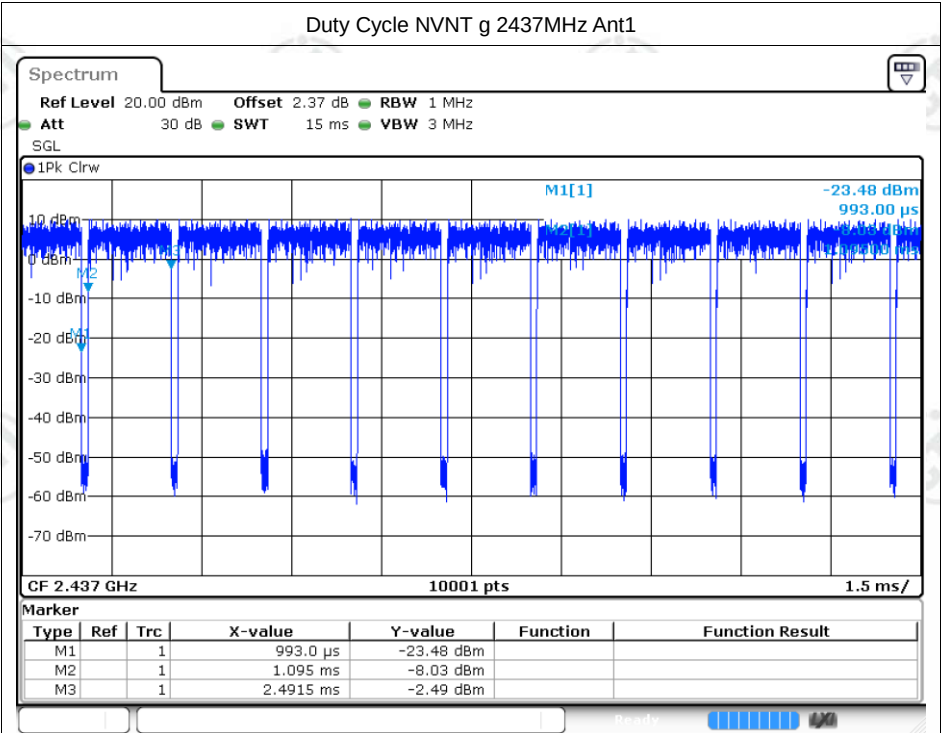
Date: 28.FEB.2025 14:39:36

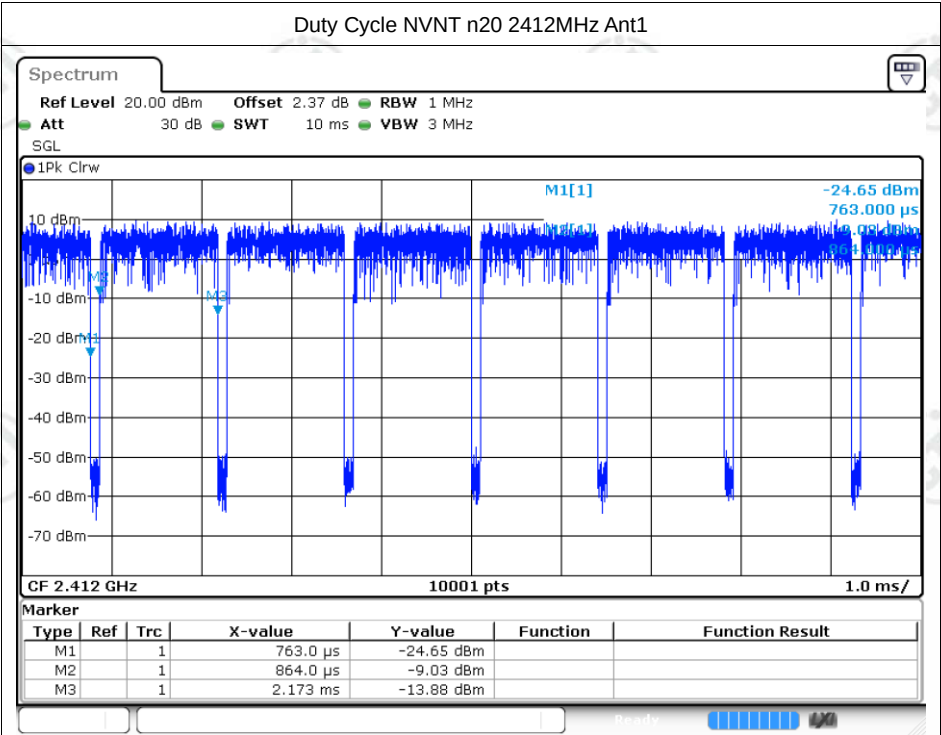


Date: 28.FEB.2025 14:41:17

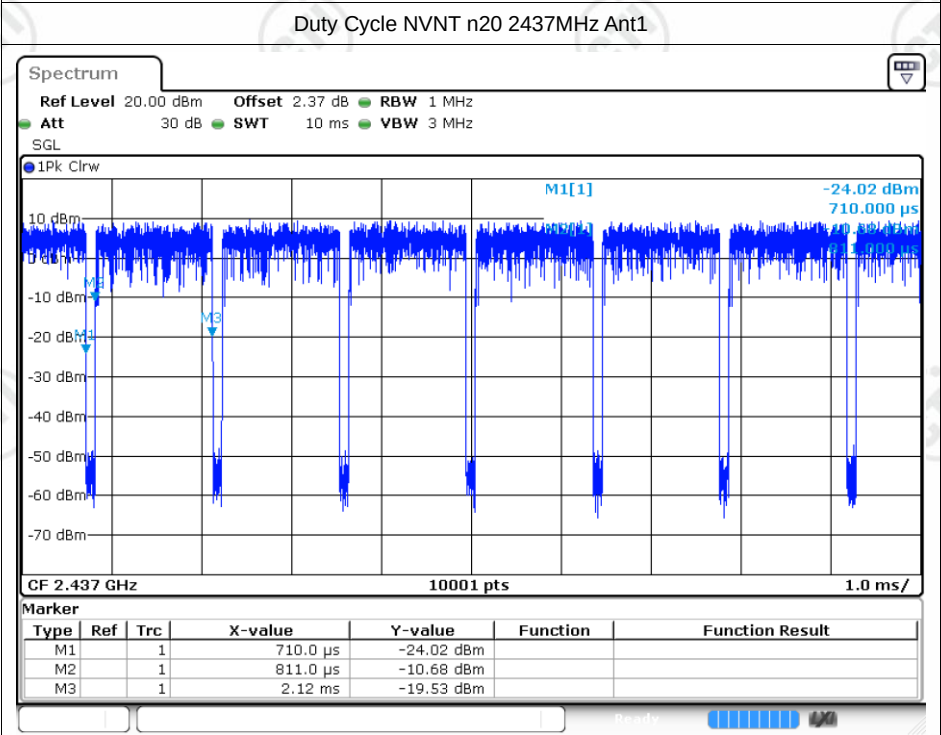


Date: 28.FEB.2025 15:03:09

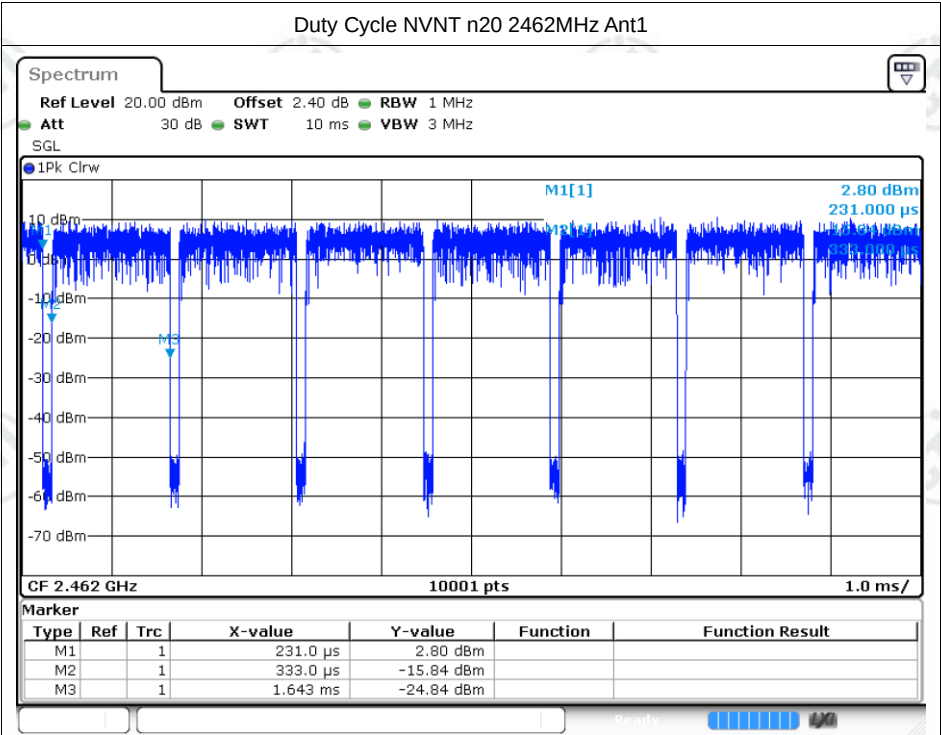




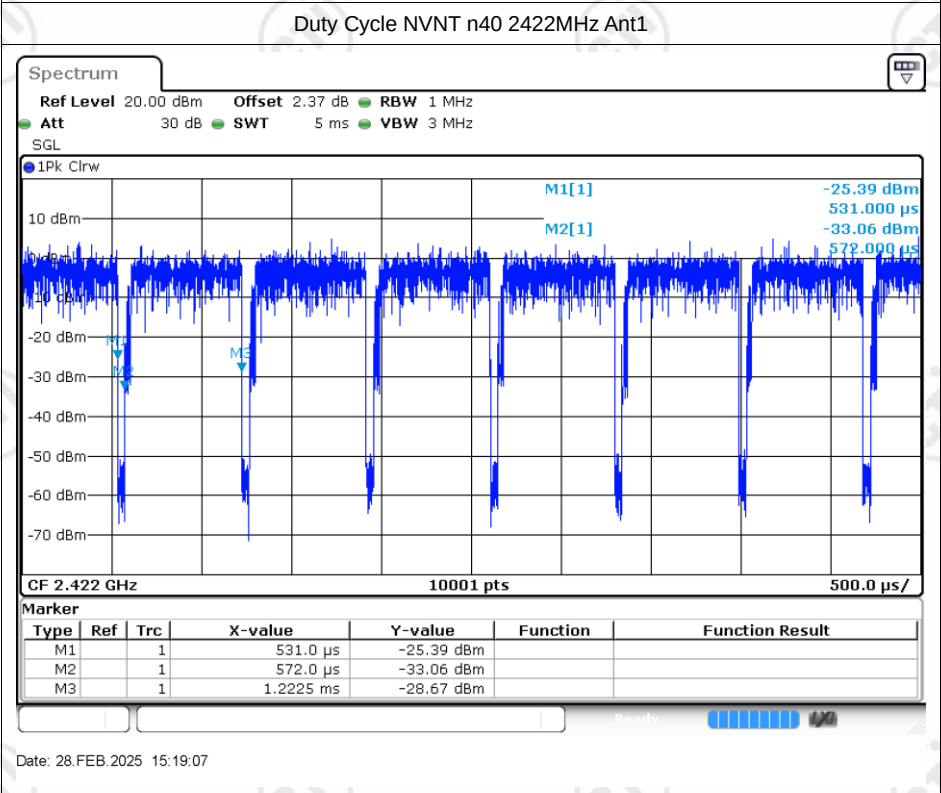
Date: 28.FEB.2025 15:11:27



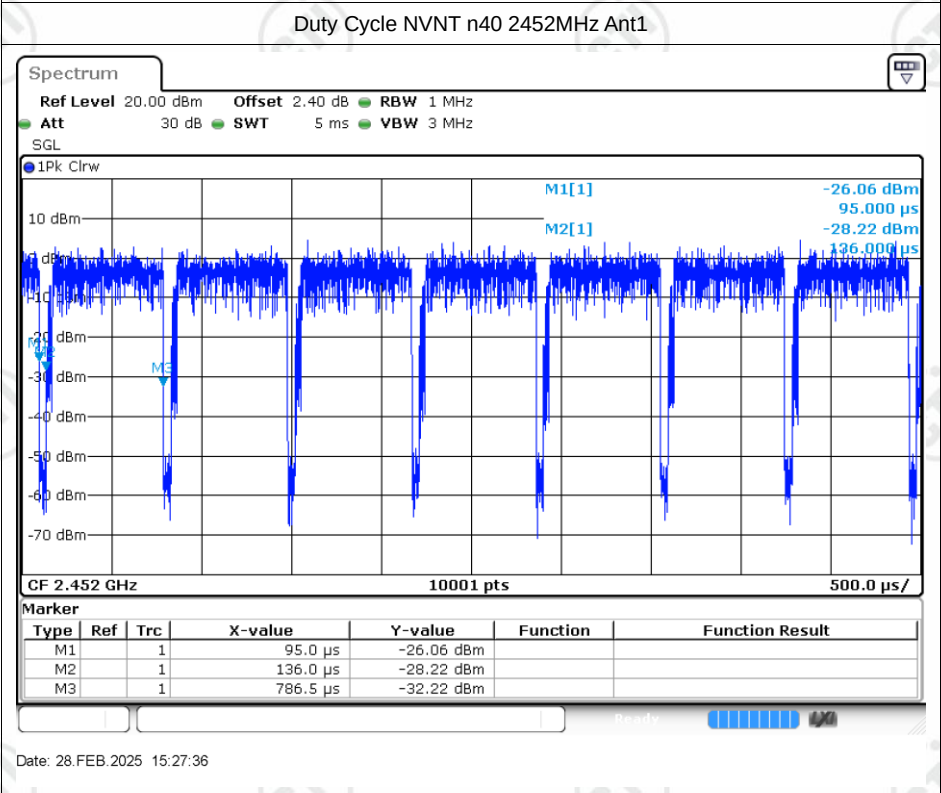
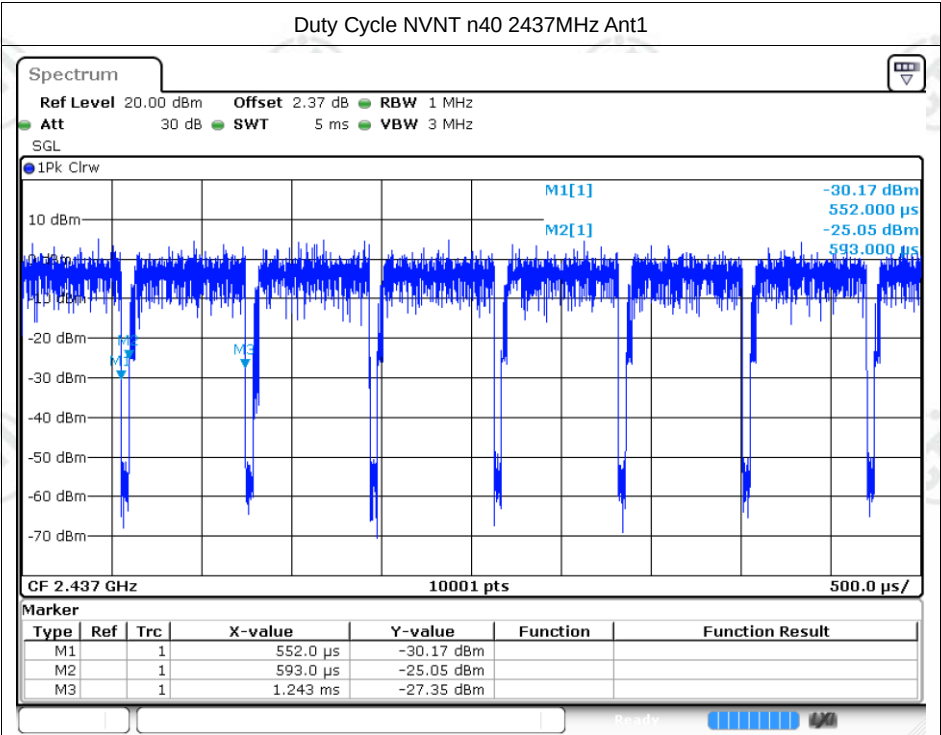
Date: 28.FEB.2025 15:13:37



Date: 28.FEB.2025 15:15:51



Date: 28.FEB.2025 15:19:07

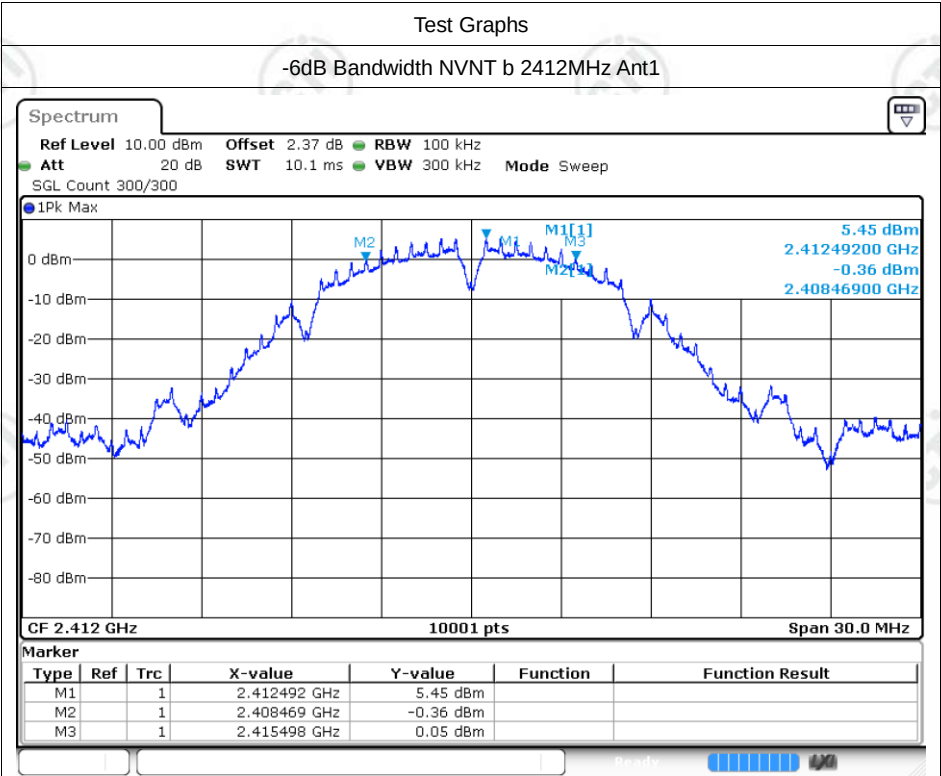


Maximum Peak Conducted Output Power

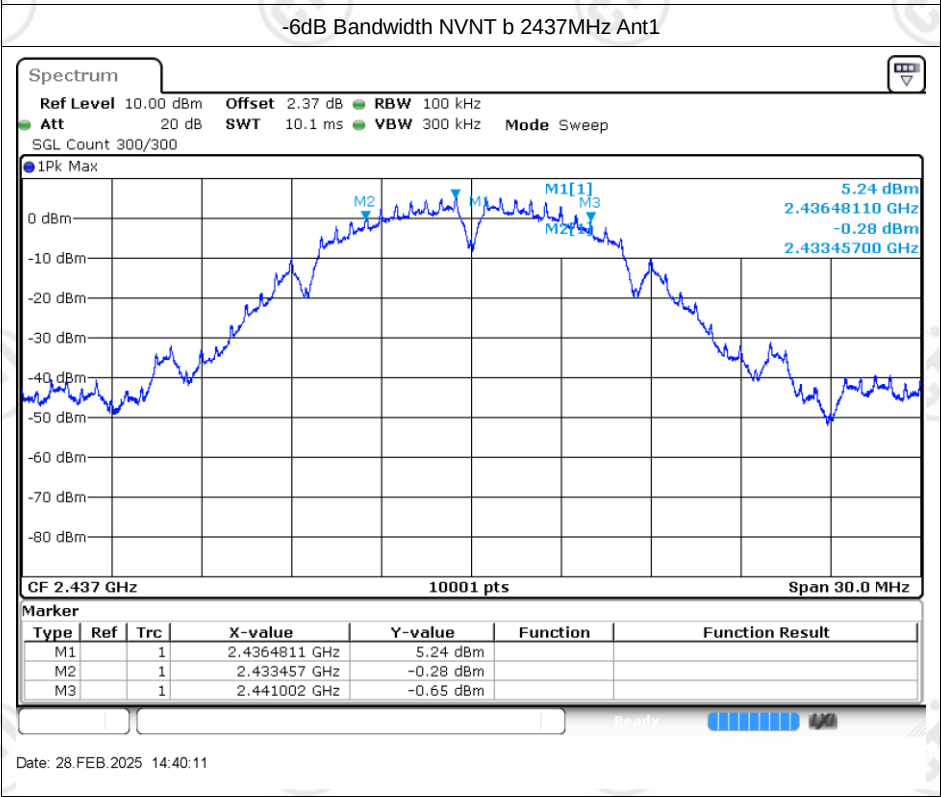
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	12.77	30	Pass
NVNT	b	2437	Ant1	12.85	30	Pass
NVNT	b	2462	Ant1	12.56	30	Pass
NVNT	g	2412	Ant1	11.63	30	Pass
NVNT	g	2437	Ant1	12.01	30	Pass
NVNT	g	2462	Ant1	11.78	30	Pass
NVNT	n20	2412	Ant1	11.33	30	Pass
NVNT	n20	2437	Ant1	11.47	30	Pass
NVNT	n20	2462	Ant1	11.19	30	Pass
NVNT	n40	2422	Ant1	10.73	30	Pass
NVNT	n40	2437	Ant1	10.51	30	Pass
NVNT	n40	2452	Ant1	10.44	30	Pass

-6dB Bandwidth

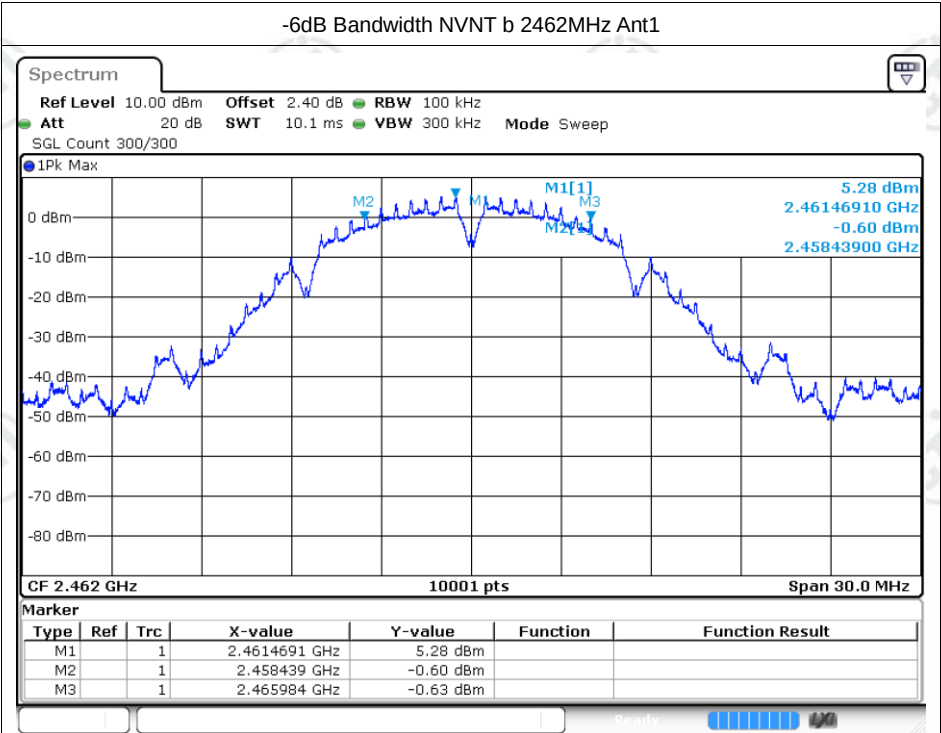
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.029	0.5	Pass
NVNT	b	2437	Ant1	7.545	0.5	Pass
NVNT	b	2462	Ant1	7.545	0.5	Pass
NVNT	g	2412	Ant1	15.486	0.5	Pass
NVNT	g	2437	Ant1	15.471	0.5	Pass
NVNT	g	2462	Ant1	15.108	0.5	Pass
NVNT	n20	2412	Ant1	15.162	0.5	Pass
NVNT	n20	2437	Ant1	15.165	0.5	Pass
NVNT	n20	2462	Ant1	15.135	0.5	Pass
NVNT	n40	2422	Ant1	35.13	0.5	Pass
NVNT	n40	2437	Ant1	35.148	0.5	Pass
NVNT	n40	2452	Ant1	35.112	0.5	Pass



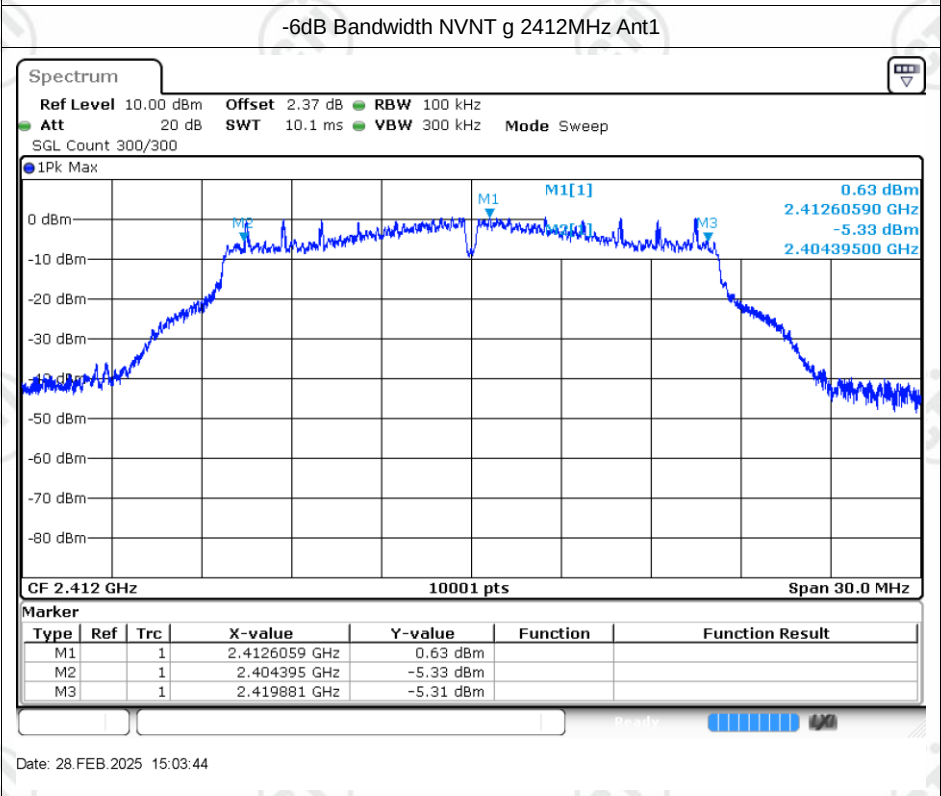
Date: 28.FEB.2025 14:37:32



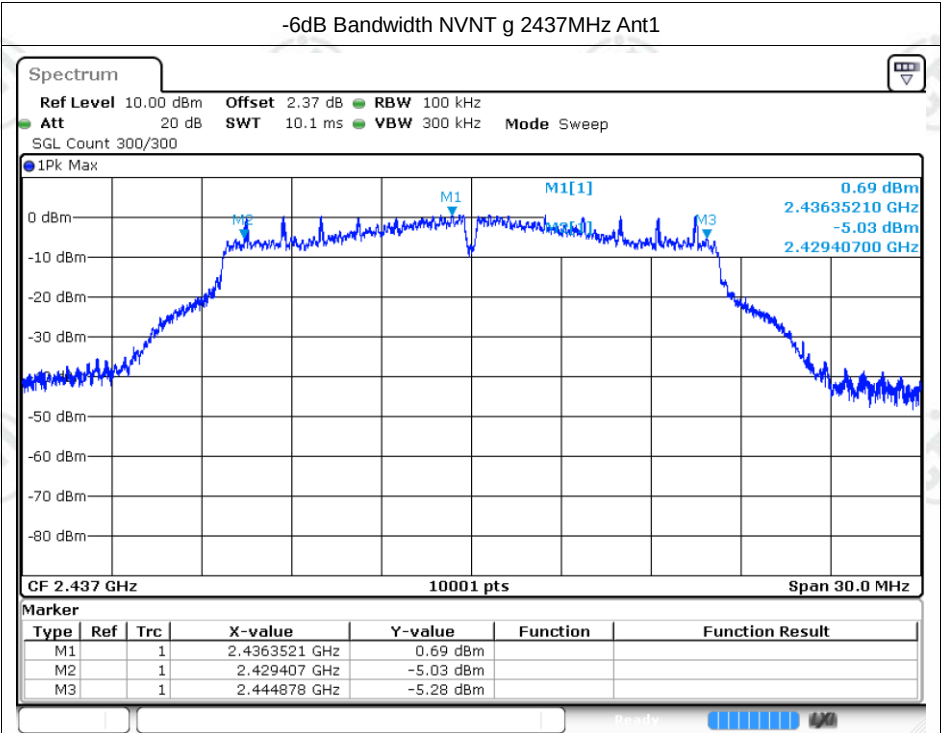
Date: 28.FEB.2025 14:40:11



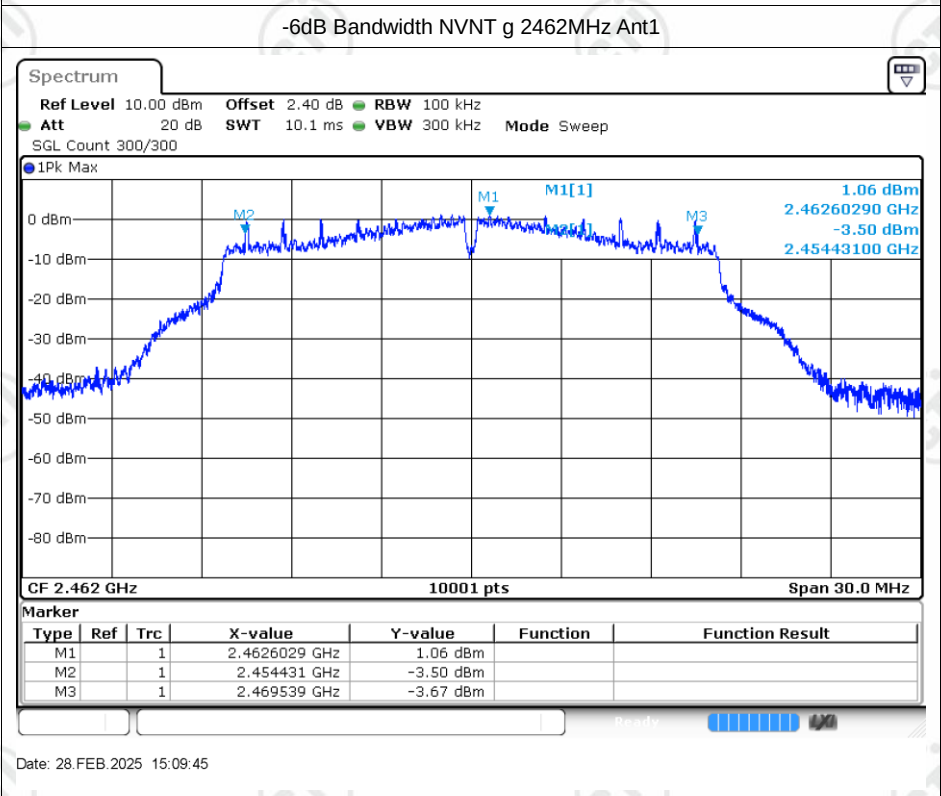
Date: 28.FEB.2025 14:41:48



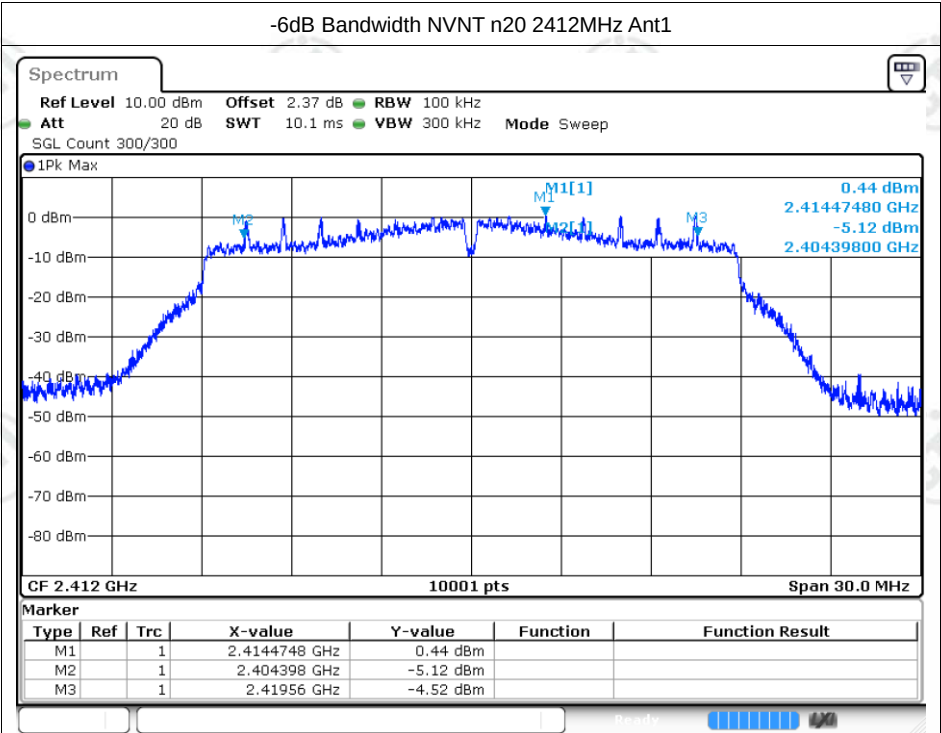
Date: 28.FEB.2025 15:03:44



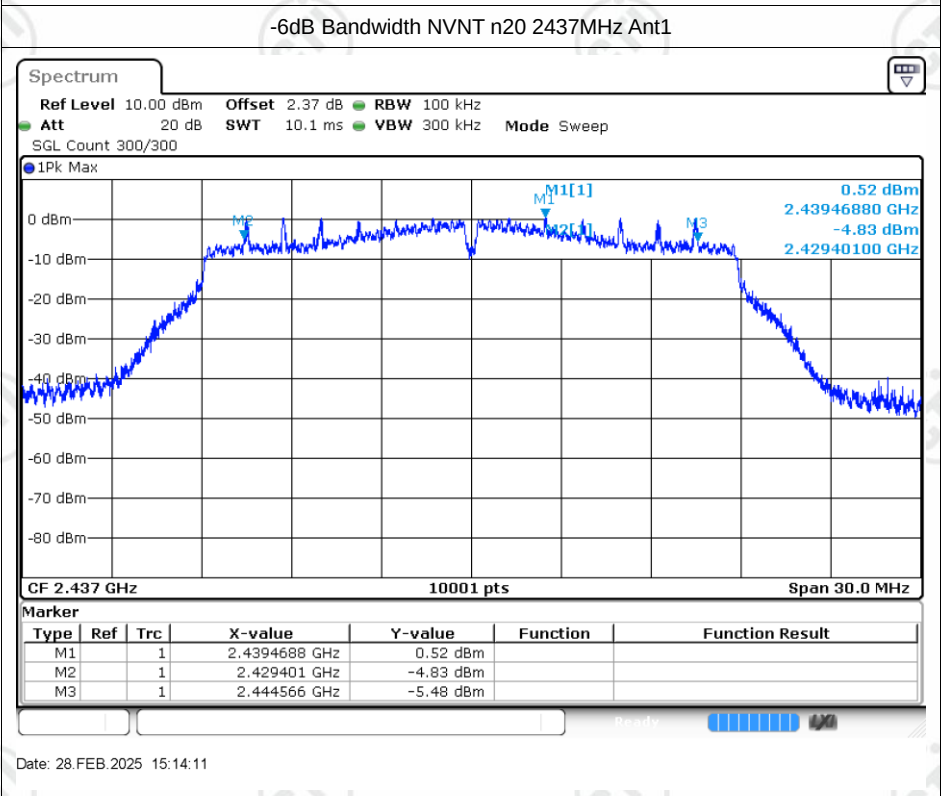
Date: 28.FEB.2025 15:07:15



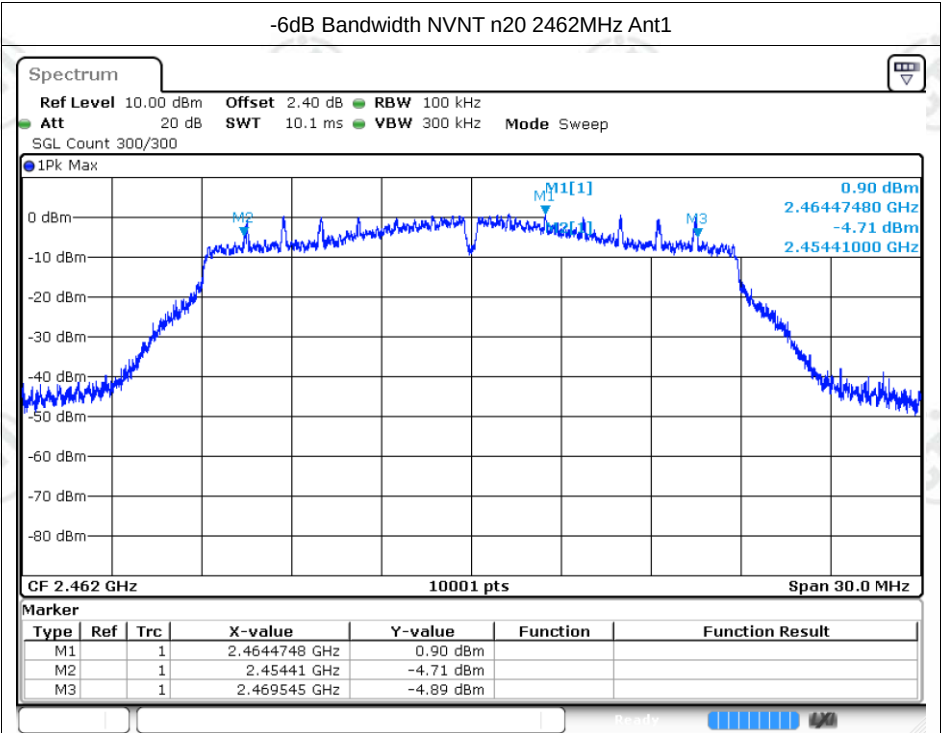
Date: 28.FEB.2025 15:09:45



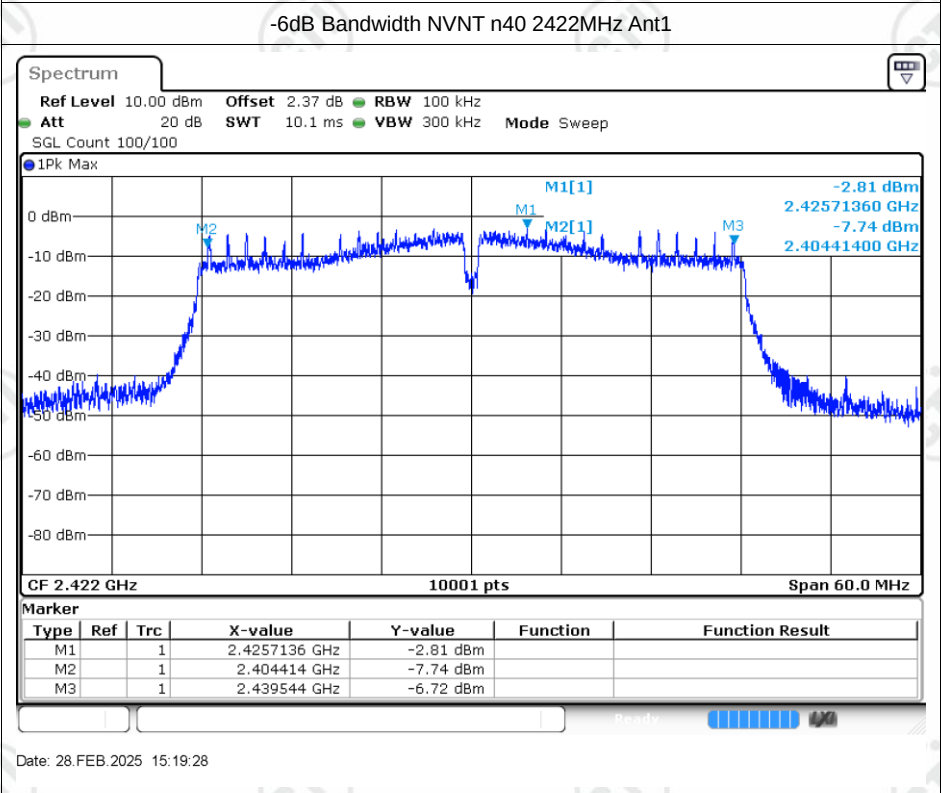
Date: 28.FEB.2025 15:11:57



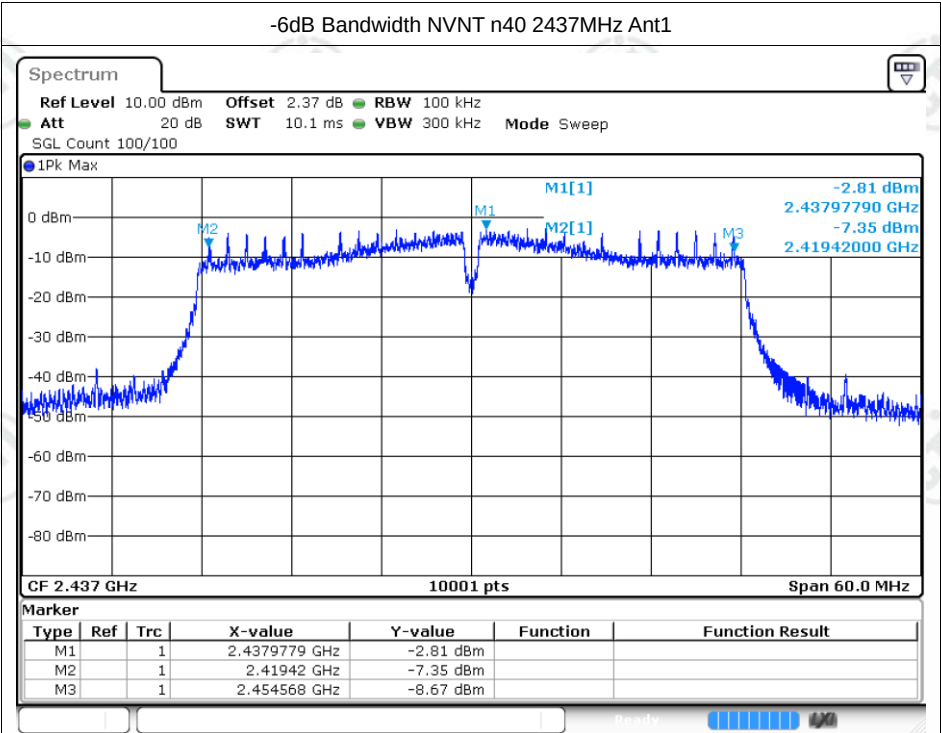
Date: 28.FEB.2025 15:14:11



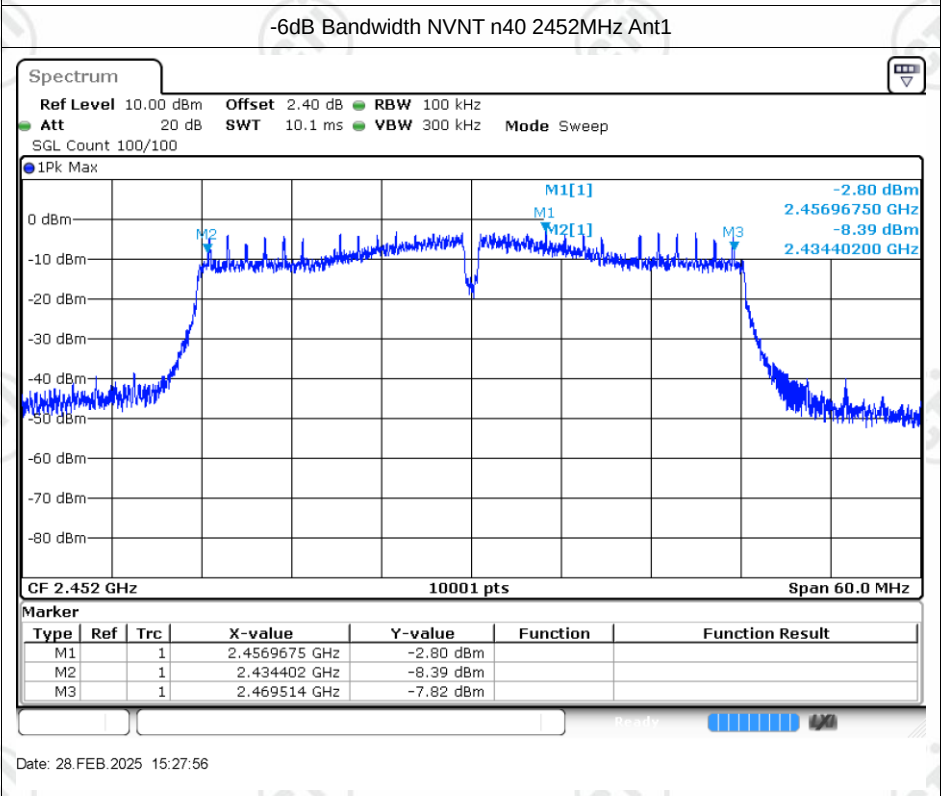
Date: 28.FEB.2025 15:16:23



Date: 28.FEB.2025 15:19:28



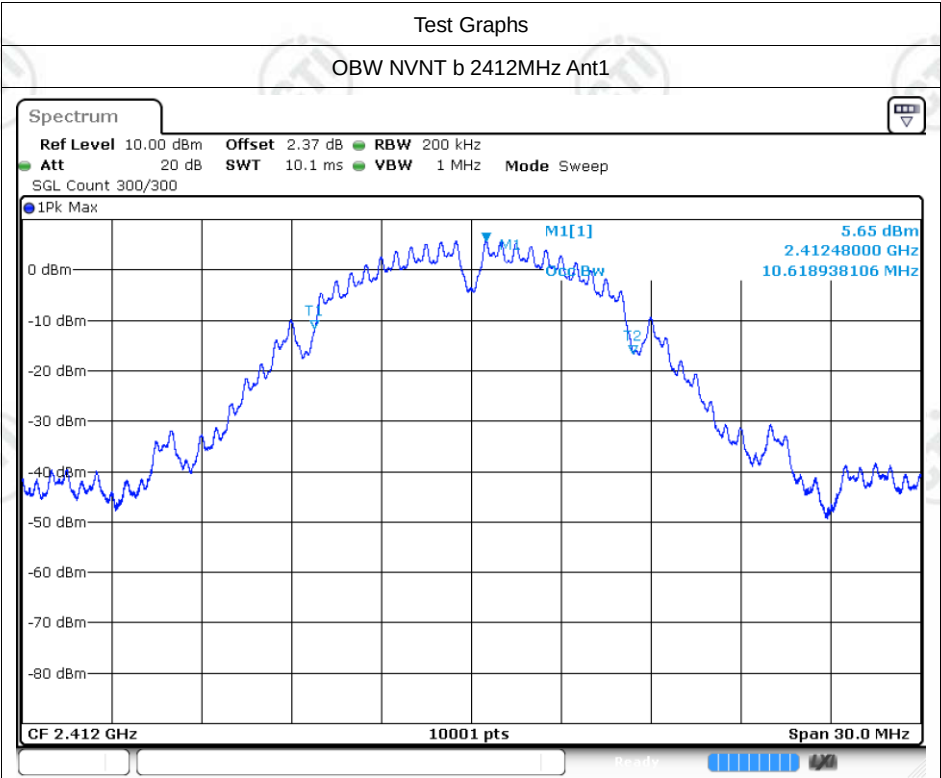
Date: 28.FEB.2025 15:24:30



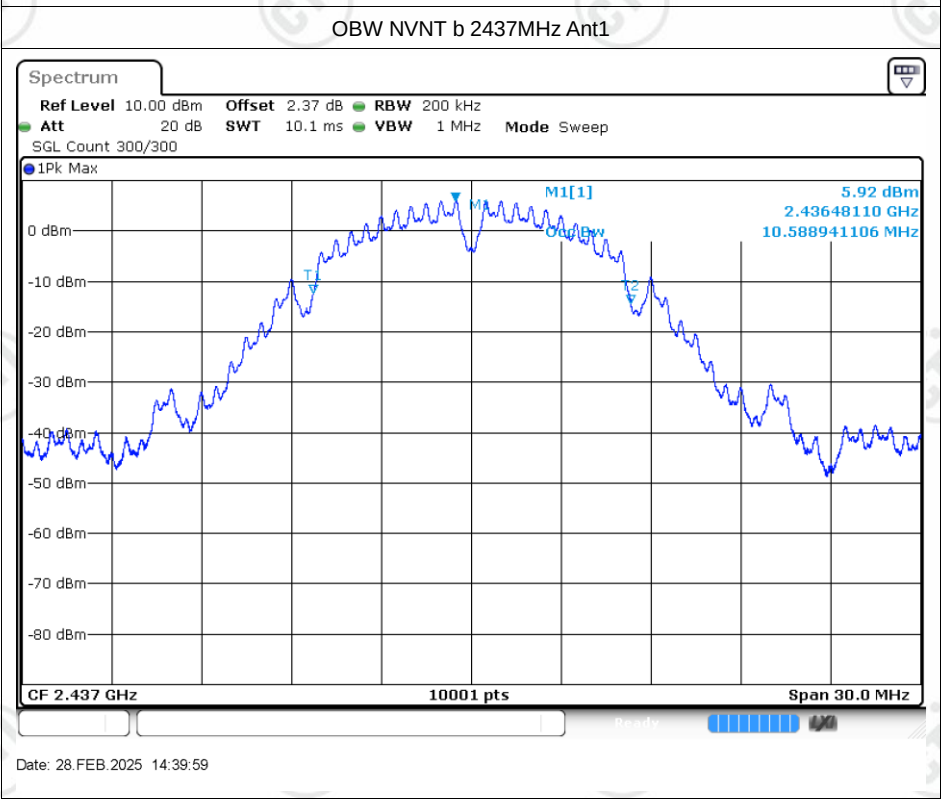
Date: 28.FEB.2025 15:27:56

Occupied Channel Bandwidth

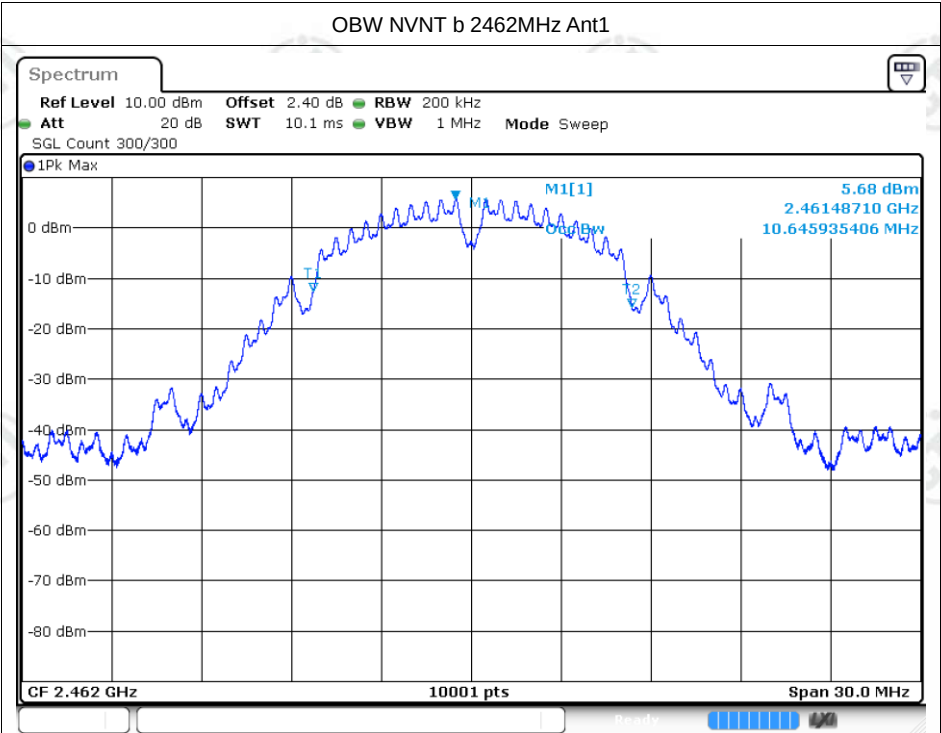
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	10.619
NVNT	b	2437	Ant1	10.589
NVNT	b	2462	Ant1	10.646
NVNT	g	2412	Ant1	16.411
NVNT	g	2437	Ant1	16.411
NVNT	g	2462	Ant1	16.312
NVNT	n20	2412	Ant1	17.566
NVNT	n20	2437	Ant1	17.56
NVNT	n20	2462	Ant1	17.473
NVNT	n40	2422	Ant1	35.906
NVNT	n40	2437	Ant1	35.936
NVNT	n40	2452	Ant1	35.918



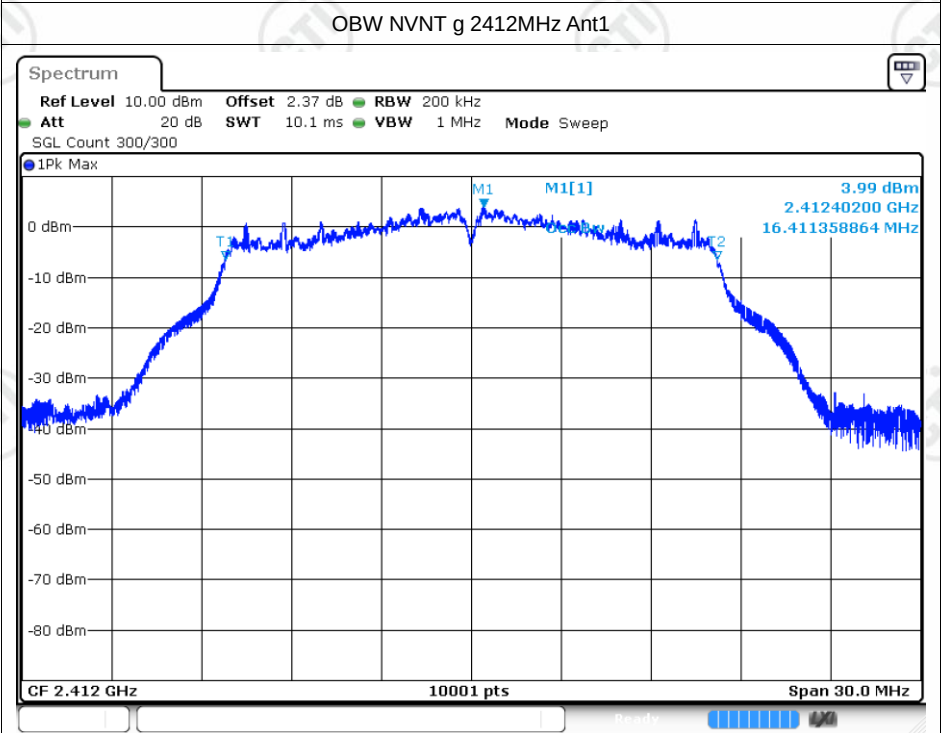
Date: 28.FEB.2025 14:37:20



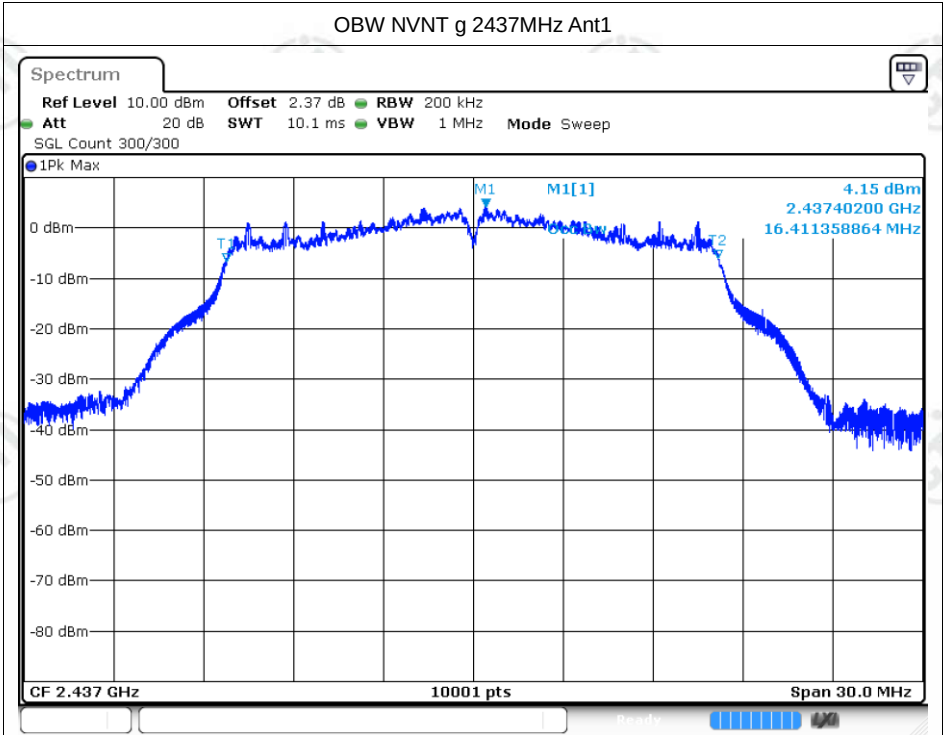
Date: 28.FEB.2025 14:39:59



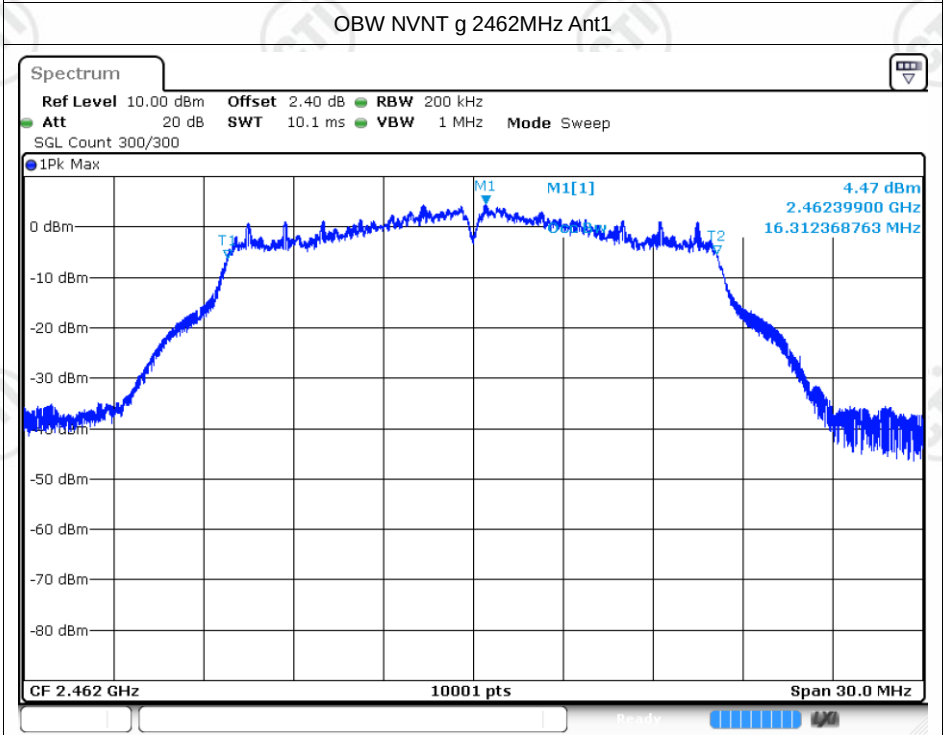
Date: 28.FEB.2025 14:41:35



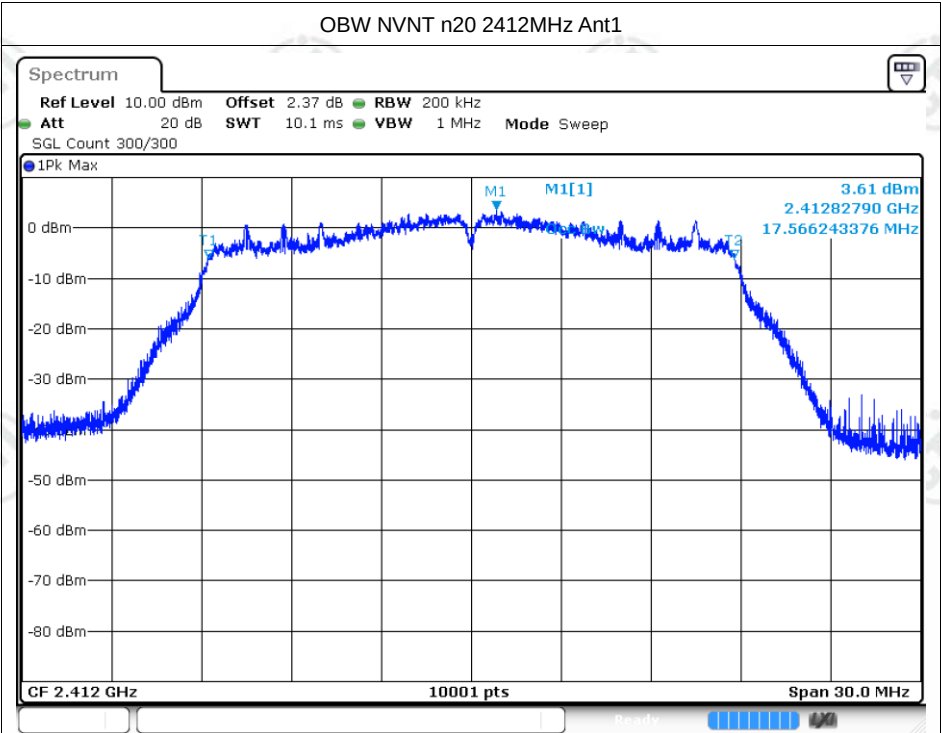
Date: 28.FEB.2025 15:03:28



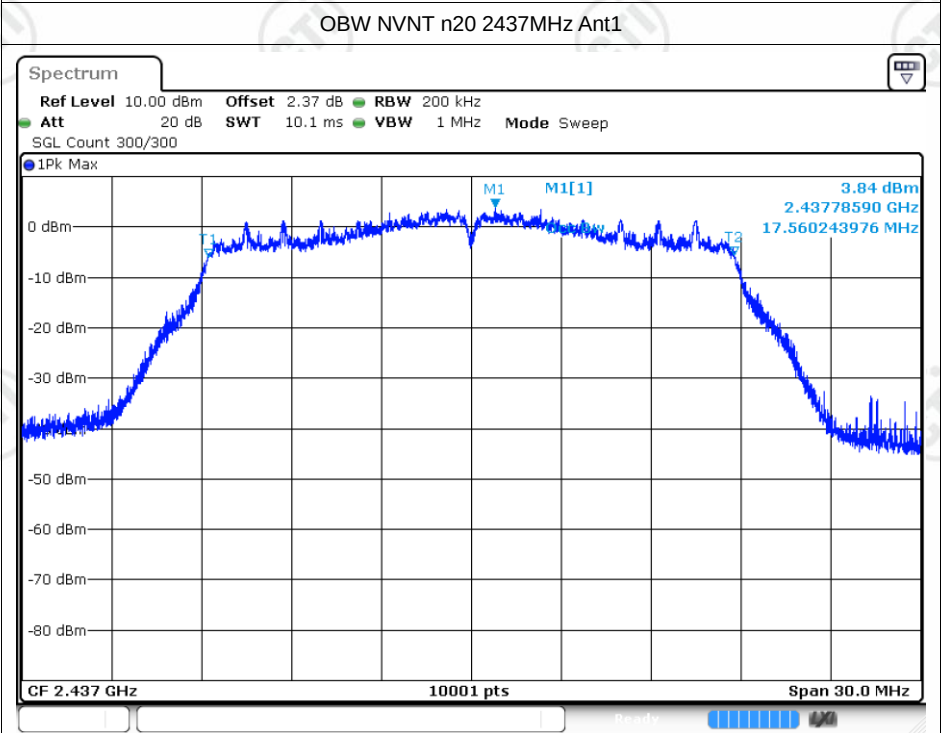
Date: 28.FEB.2025 15:07:02



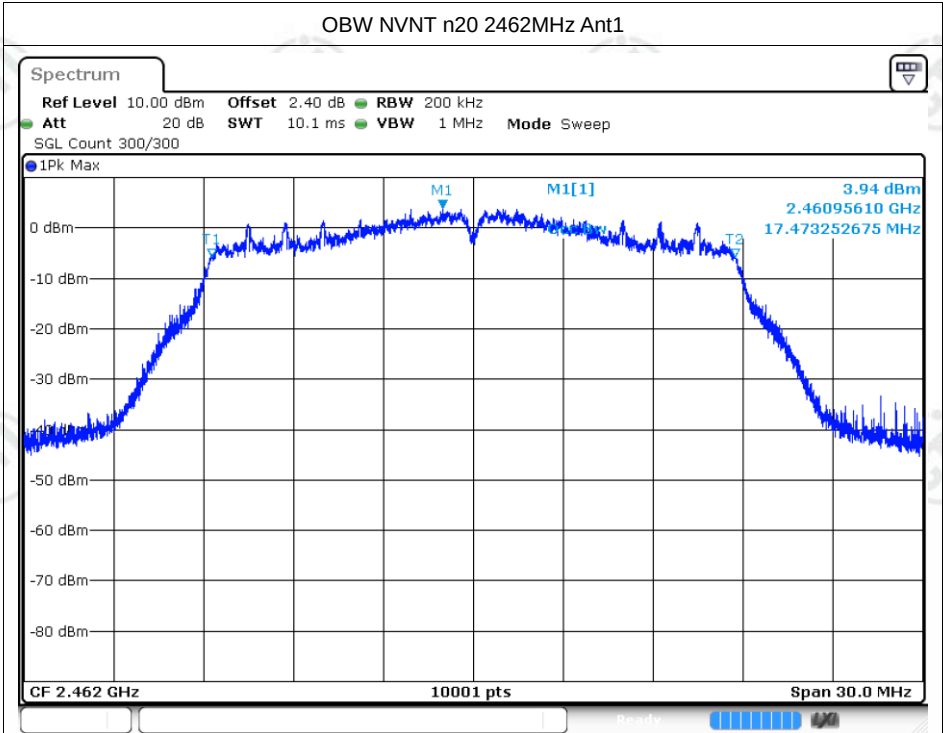
Date: 28.FEB.2025 15:09:31



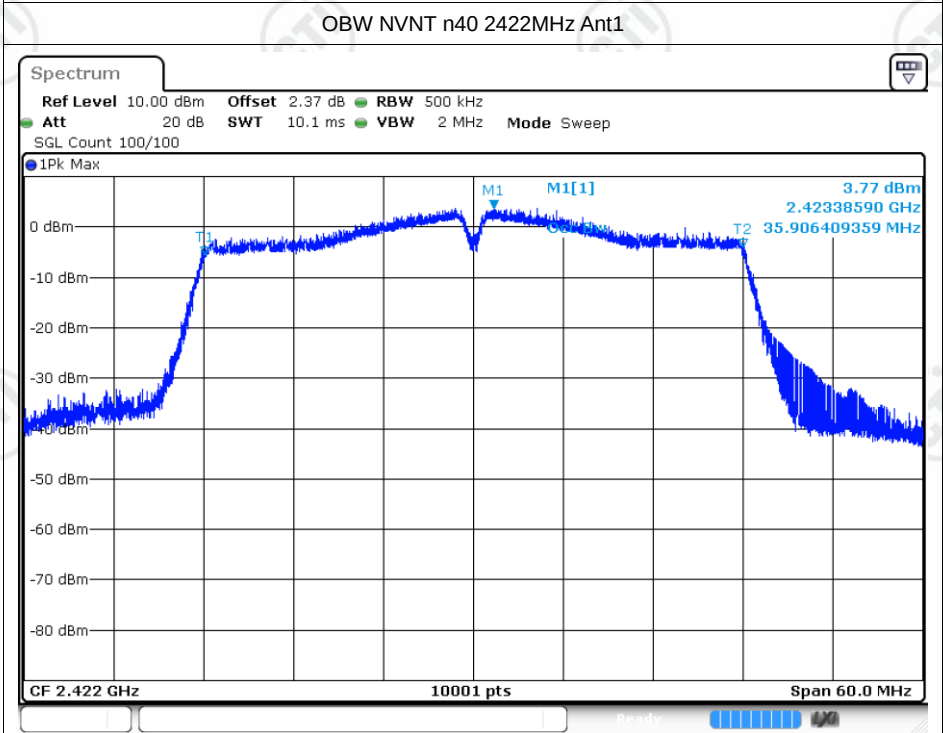
Date: 28.FEB.2025 15:11:46



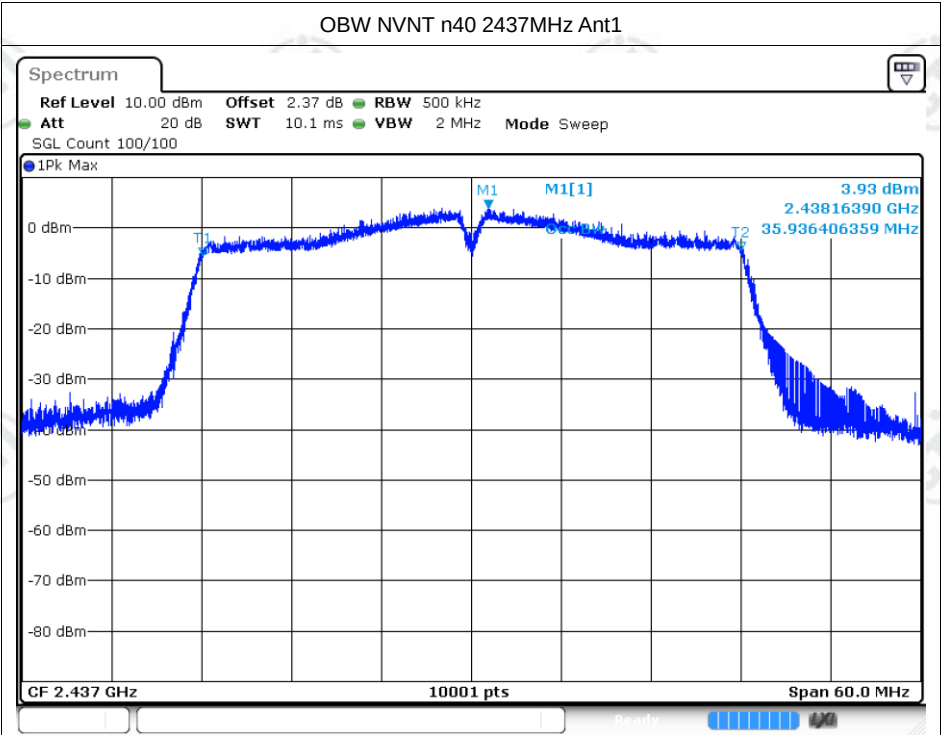
Date: 28.FEB.2025 15:13:58



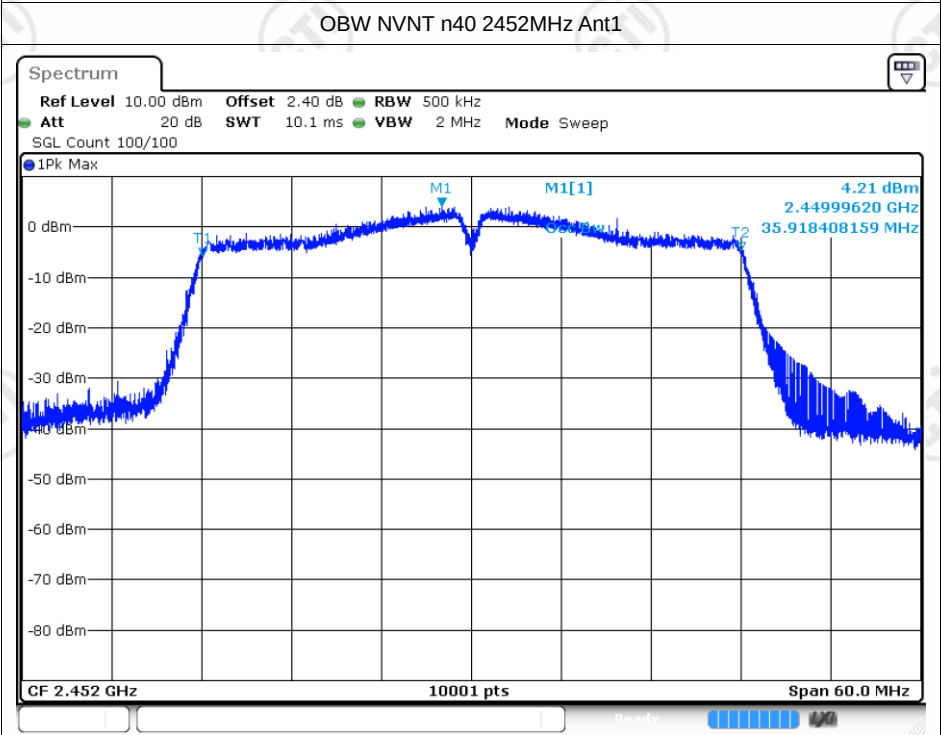
Date: 28.FEB.2025 15:16:10



Date: 28.FEB.2025 15:19:21



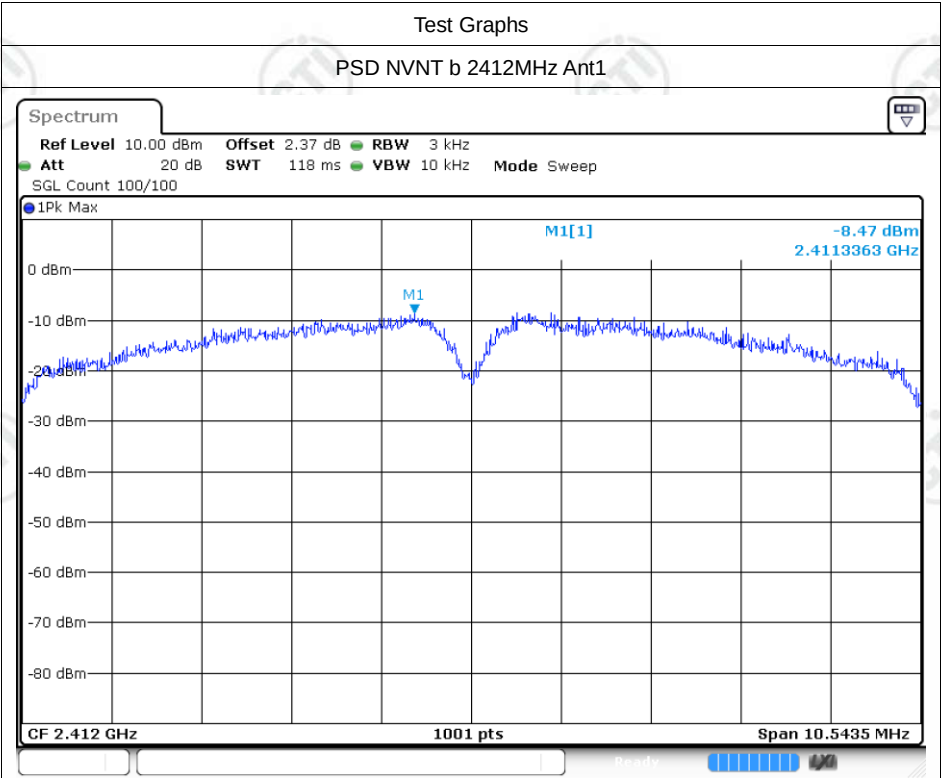
Date: 28.FEB.2025 15:24:23



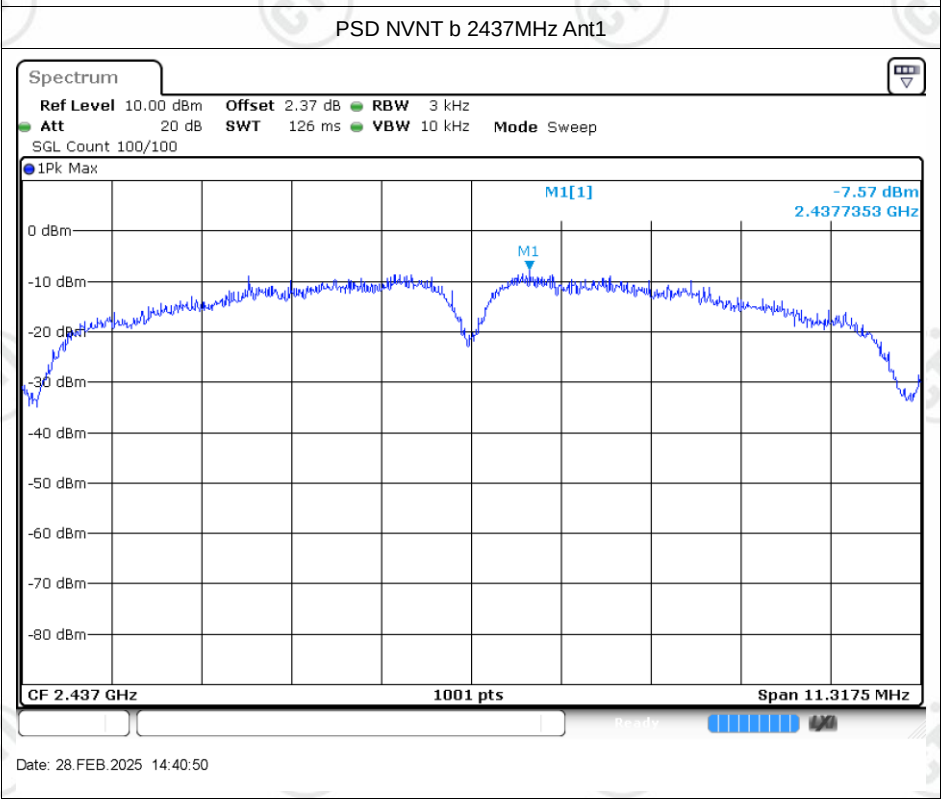
Date: 28.FEB.2025 15:27:48

Maximum Power Spectral Density Level

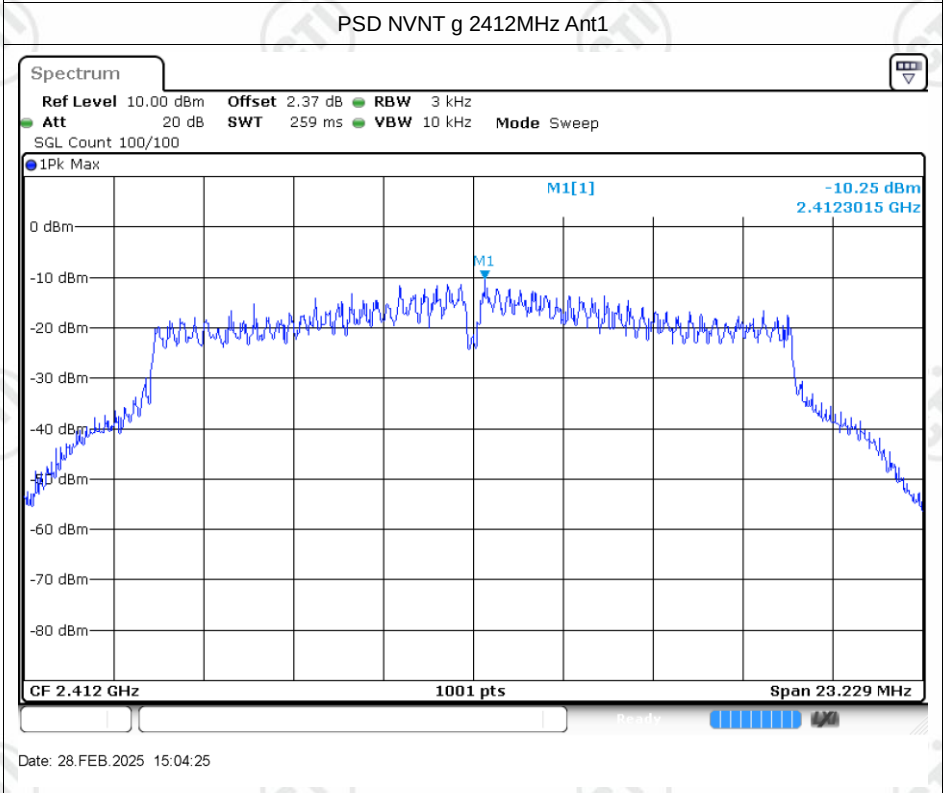
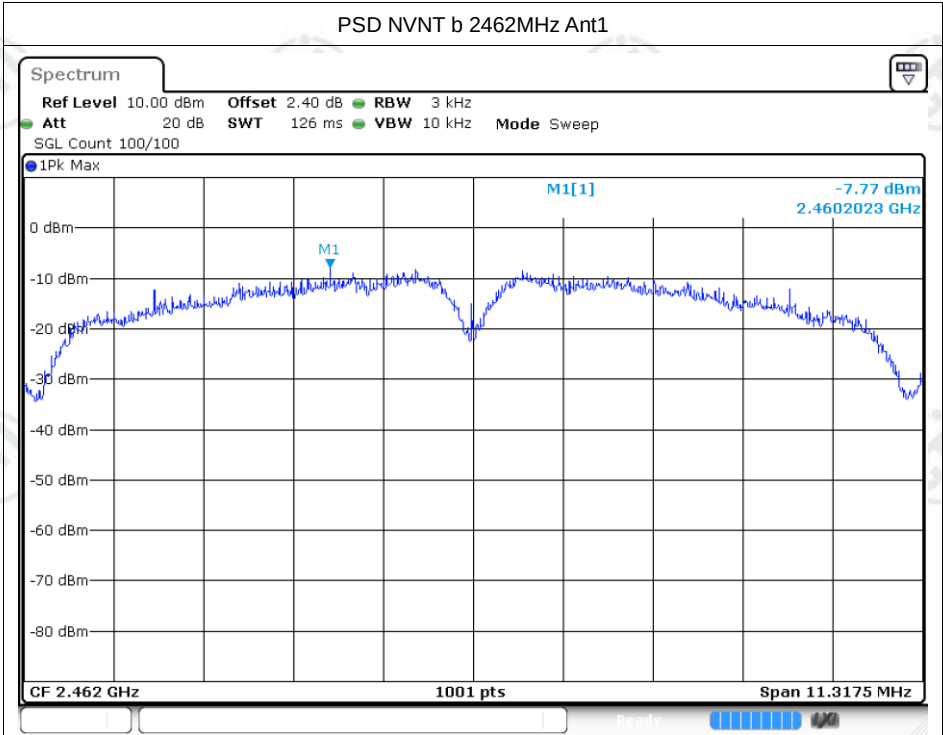
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-8.47	8	Pass
NVNT	b	2437	Ant1	-7.57	8	Pass
NVNT	b	2462	Ant1	-7.77	8	Pass
NVNT	g	2412	Ant1	-10.25	8	Pass
NVNT	g	2437	Ant1	-10.07	8	Pass
NVNT	g	2462	Ant1	-9.79	8	Pass
NVNT	n20	2412	Ant1	-10.65	8	Pass
NVNT	n20	2437	Ant1	-10.47	8	Pass
NVNT	n20	2462	Ant1	-10.1	8	Pass
NVNT	n40	2422	Ant1	-13.66	8	Pass
NVNT	n40	2437	Ant1	-13.88	8	Pass
NVNT	n40	2452	Ant1	-13.2	8	Pass

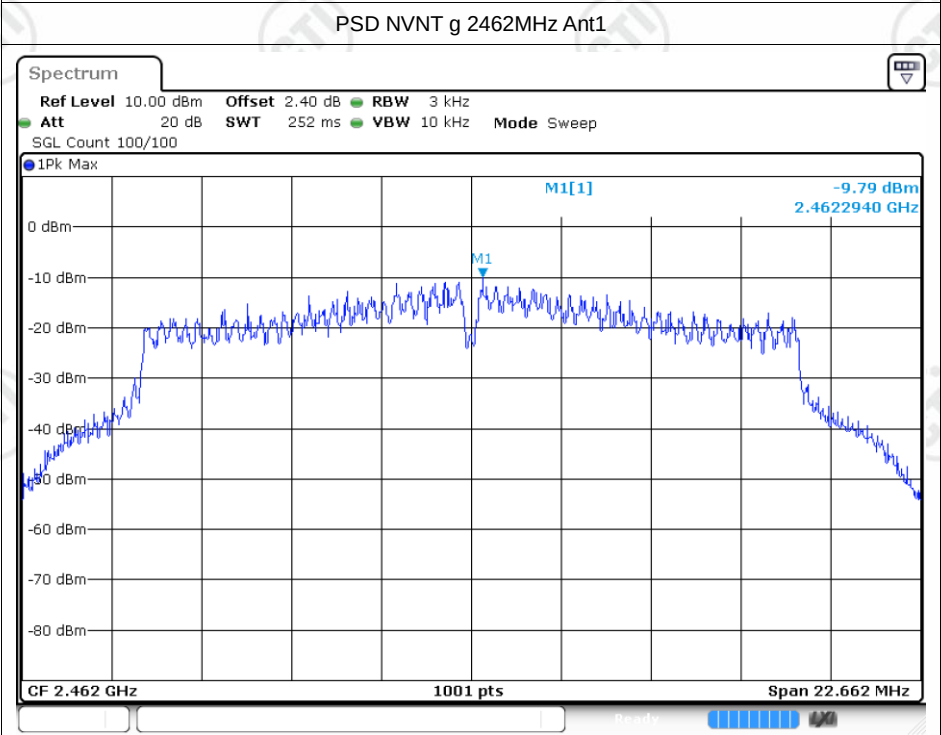
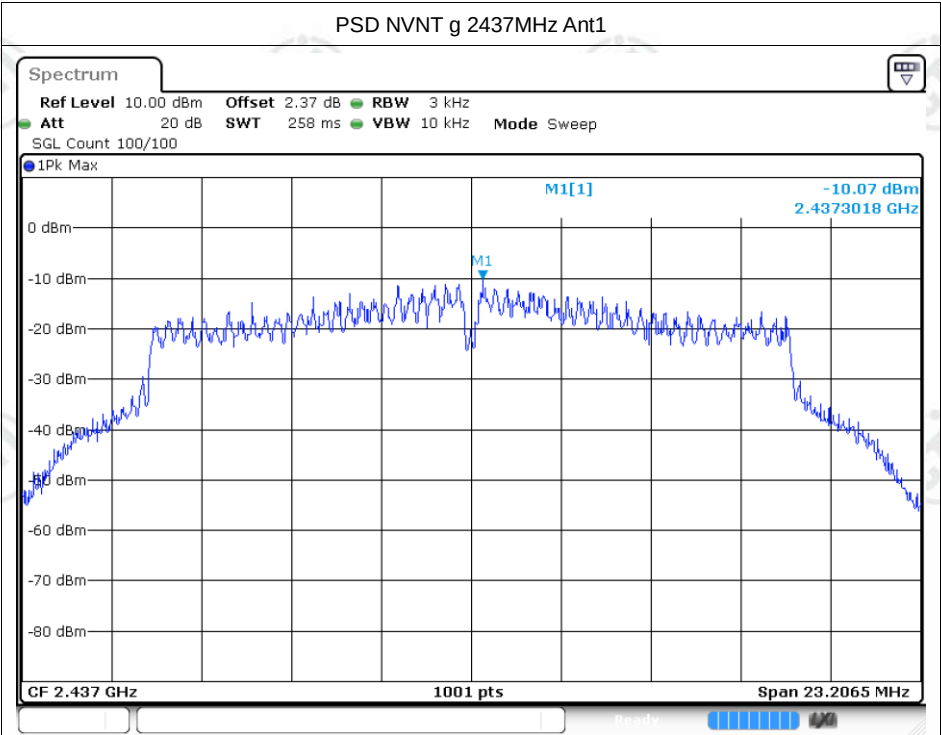


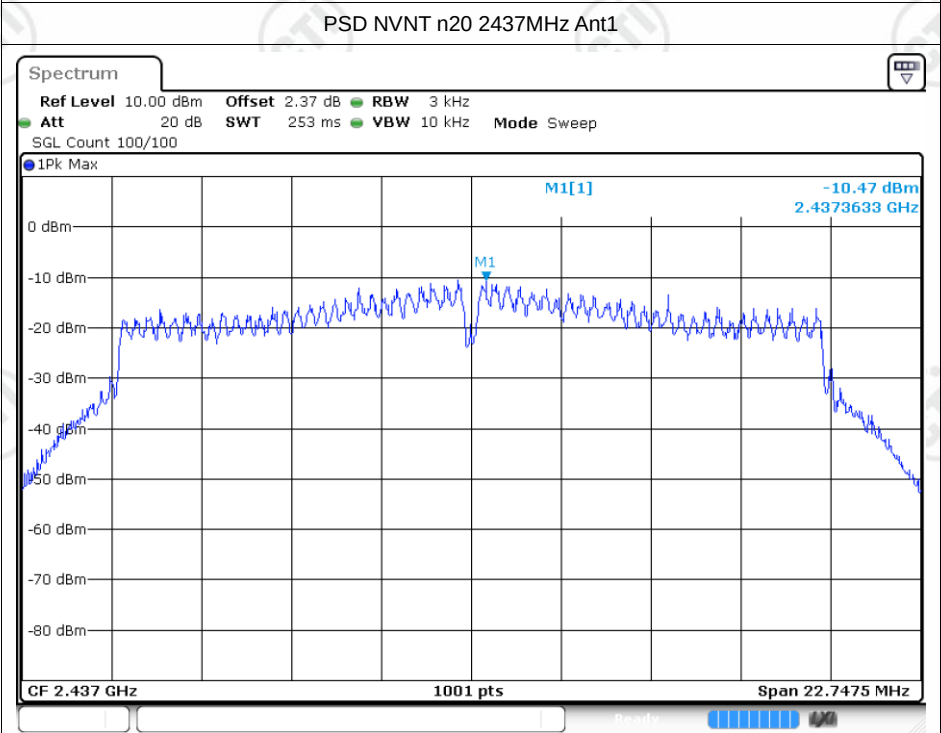
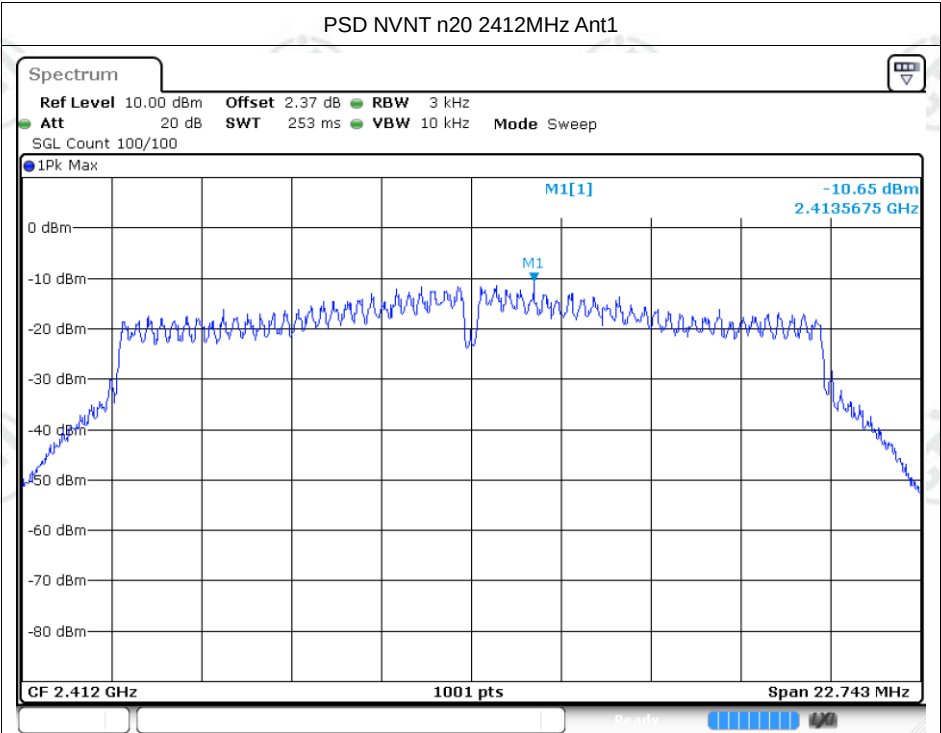
Date: 28.FEB.2025 14:37:52

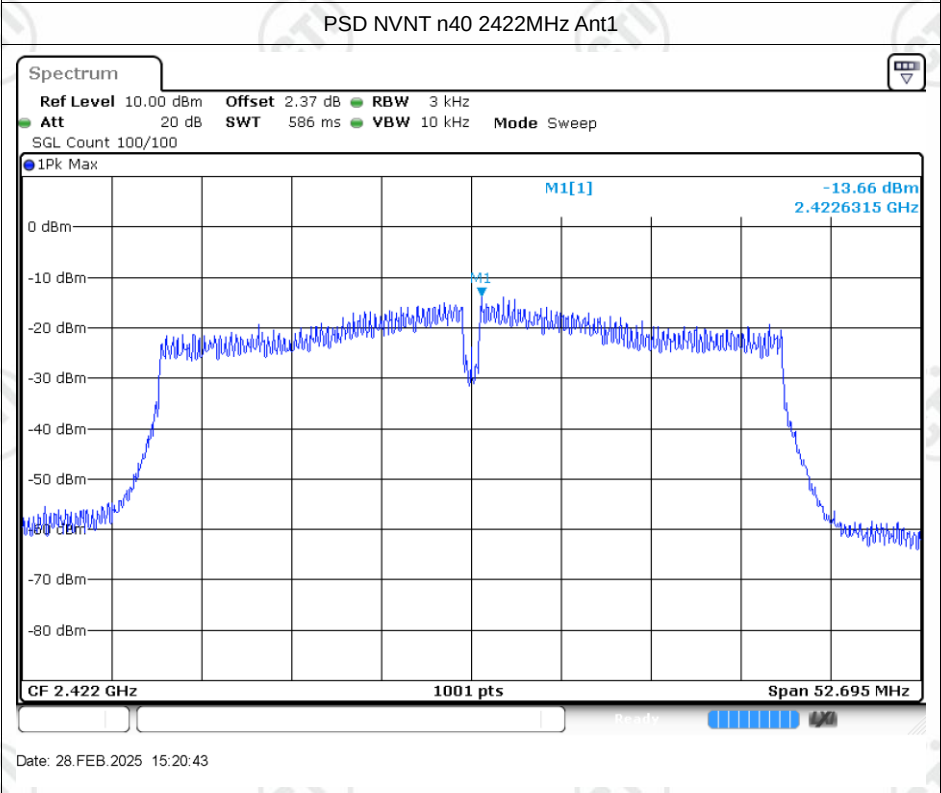
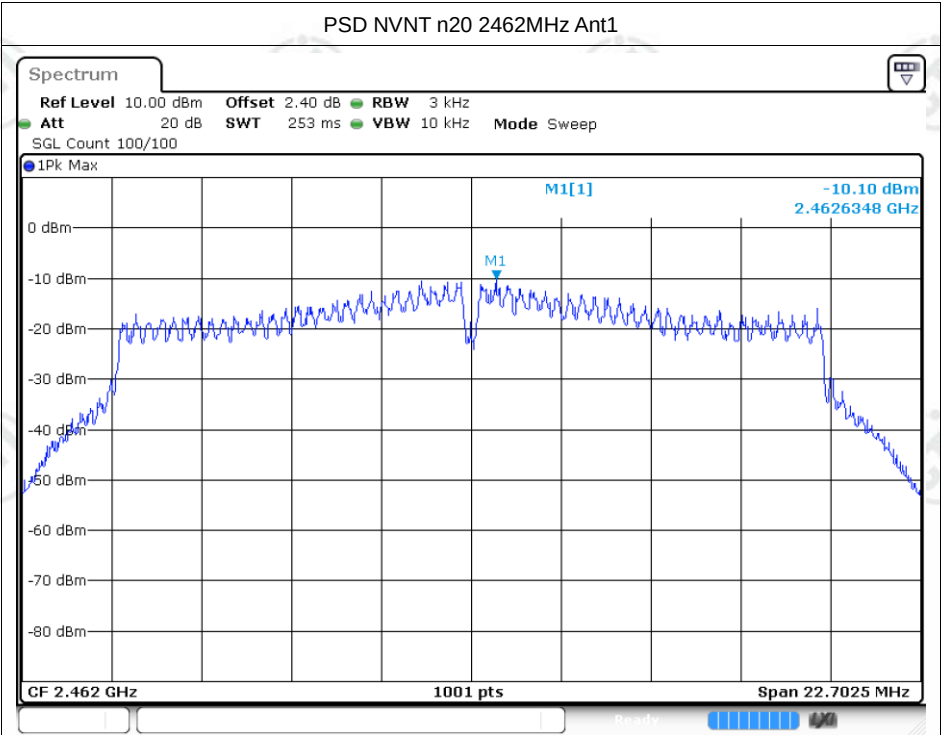


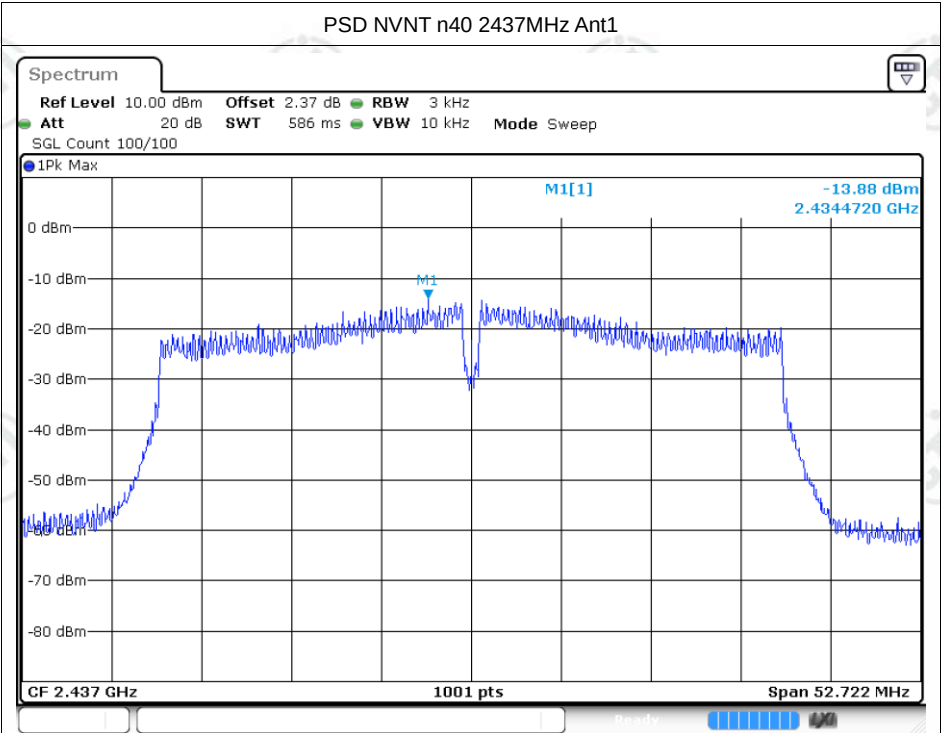
Date: 28.FEB.2025 14:40:50



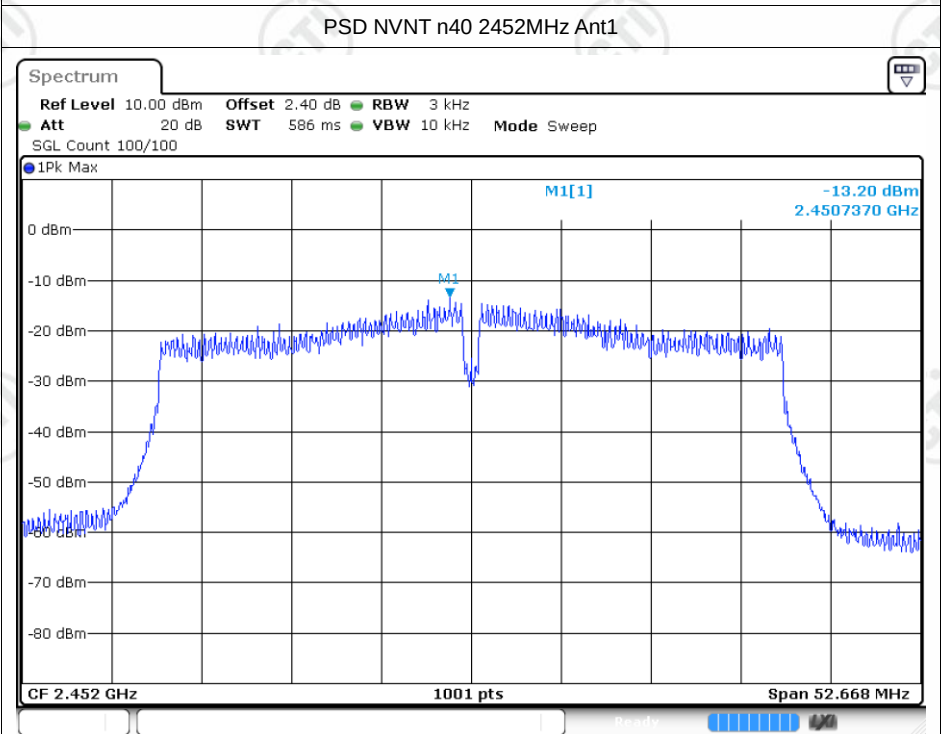








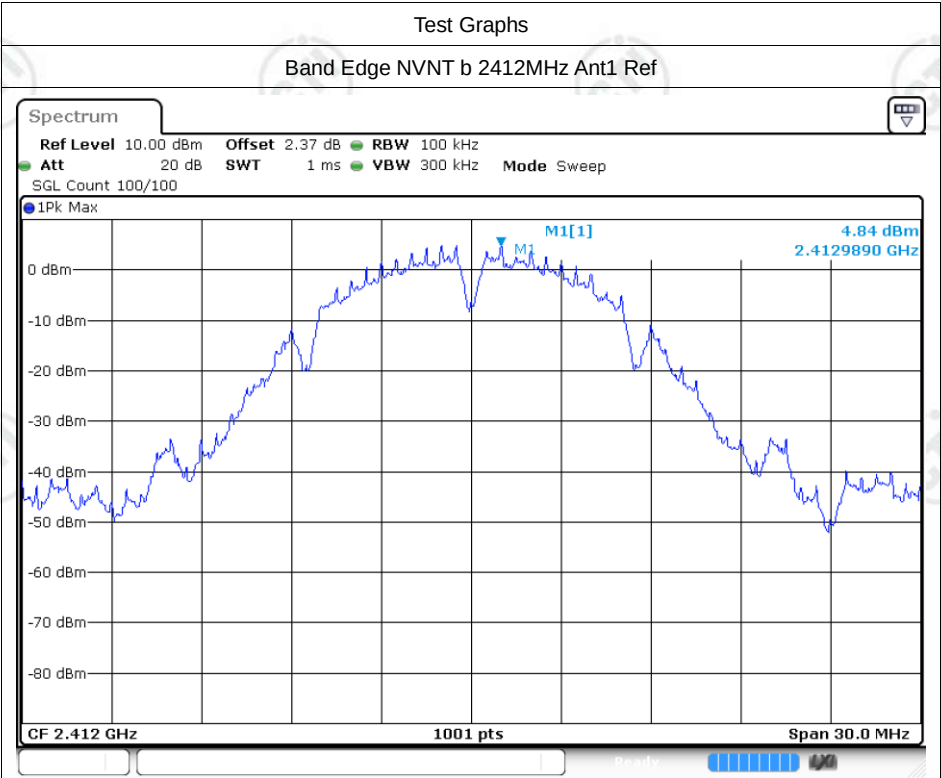
Date: 28.FEB.2025 15:25:45



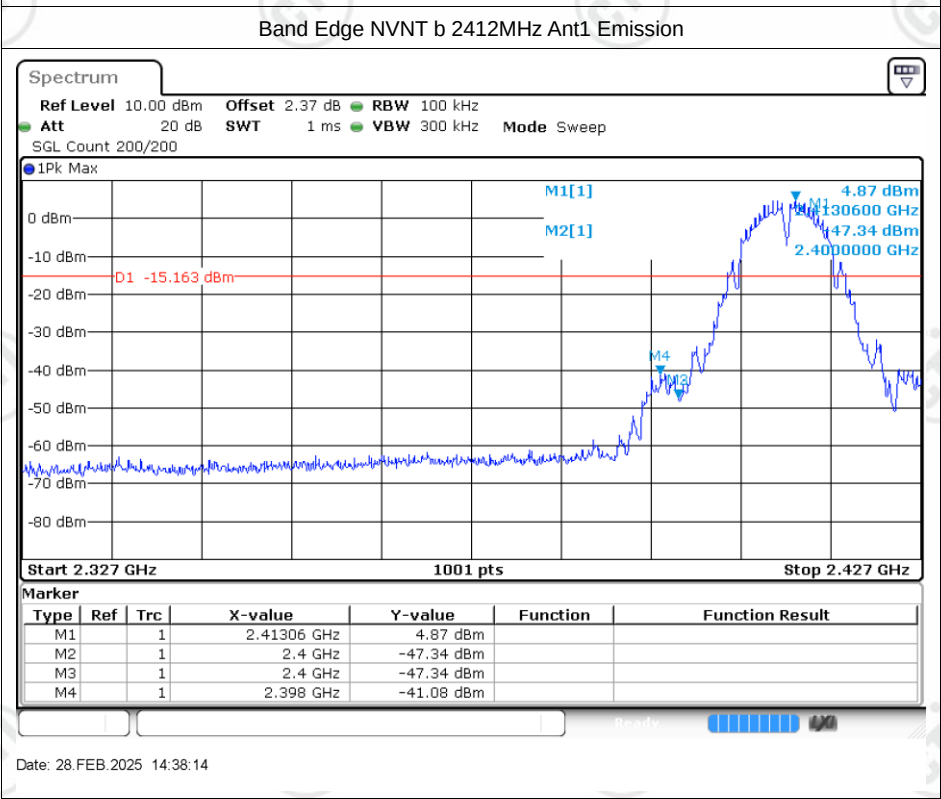
Date: 28.FEB.2025 15:29:13

Band Edge

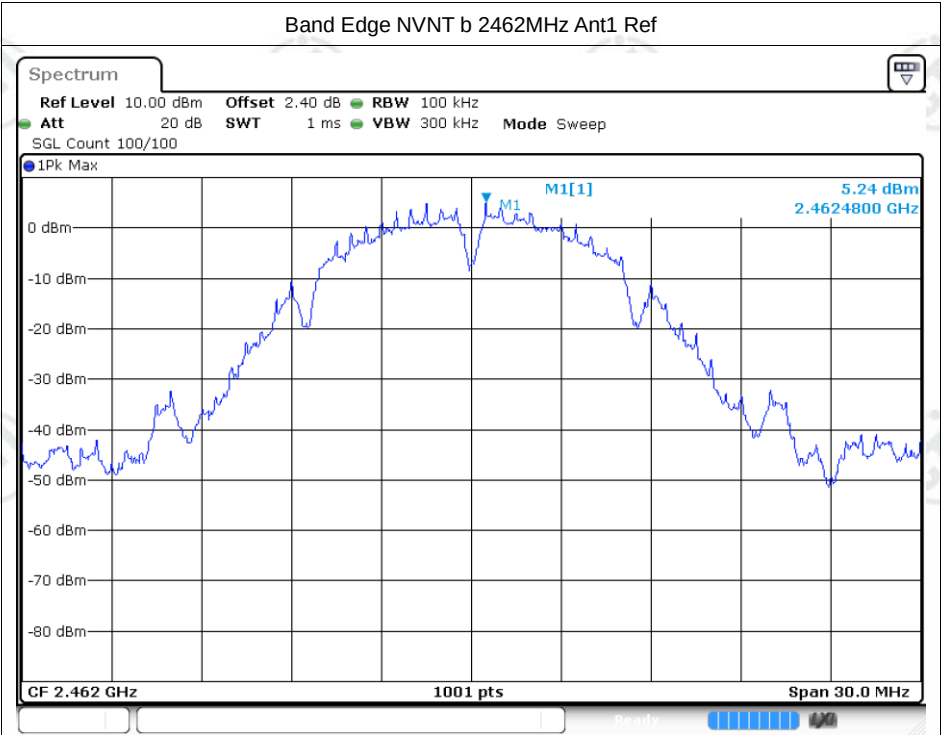
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.92	-20	Pass
NVNT	b	2462	Ant1	-65.09	-20	Pass
NVNT	g	2412	Ant1	-38.37	-20	Pass
NVNT	g	2462	Ant1	-50.07	-20	Pass
NVNT	n20	2412	Ant1	-40.07	-20	Pass
NVNT	n20	2462	Ant1	-52.21	-20	Pass
NVNT	n40	2422	Ant1	-35.35	-20	Pass
NVNT	n40	2452	Ant1	-40.77	-20	Pass



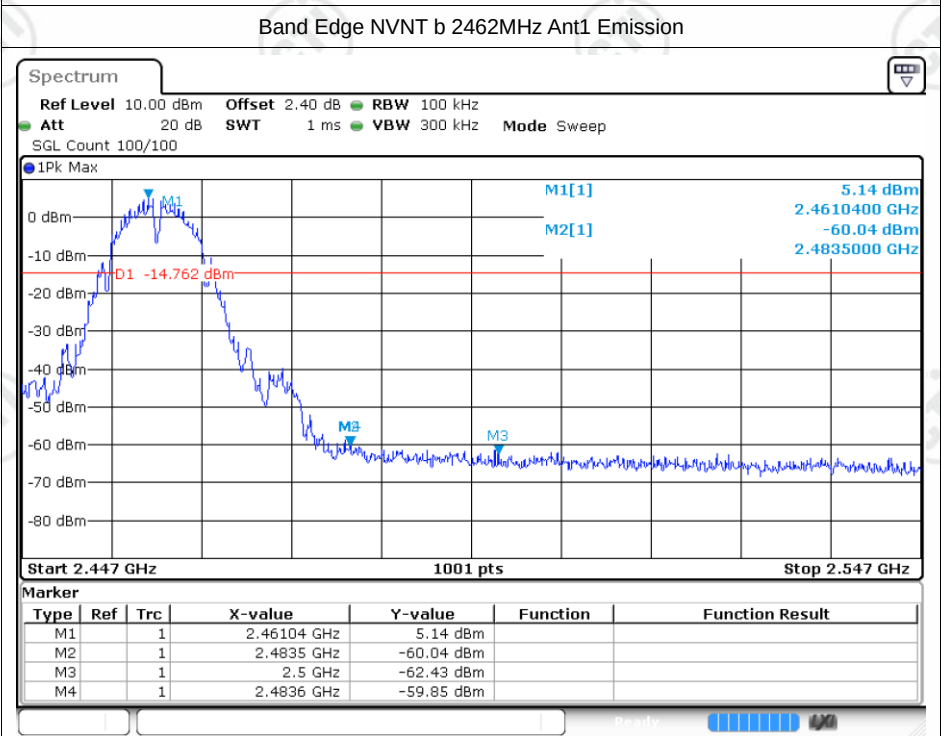
Date: 28.FEB.2025 14:38:12



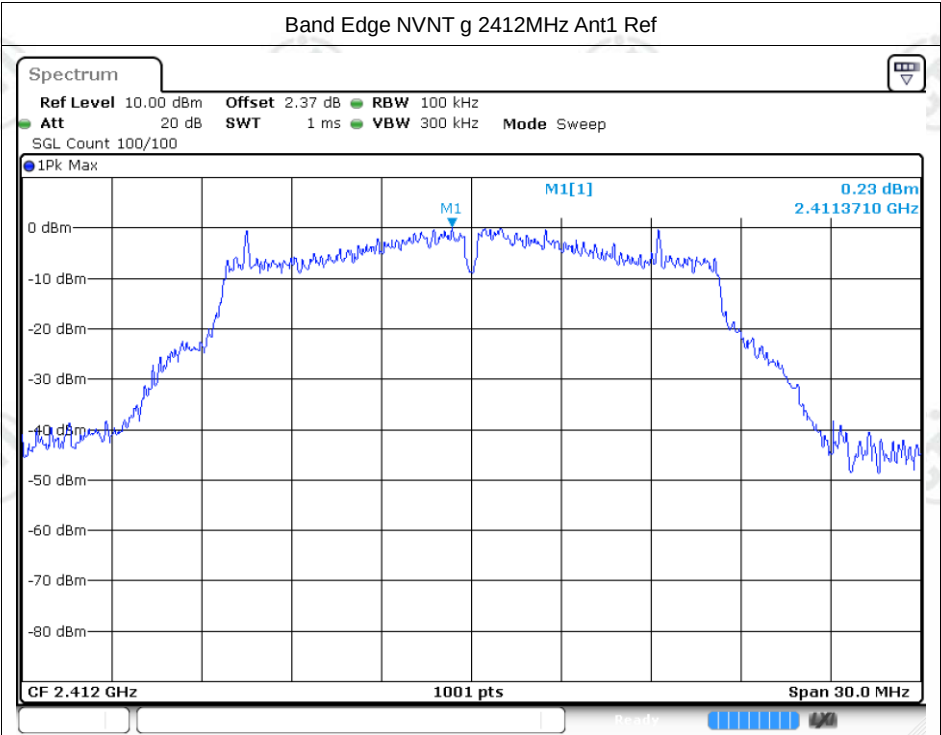
Date: 28.FEB.2025 14:38:14



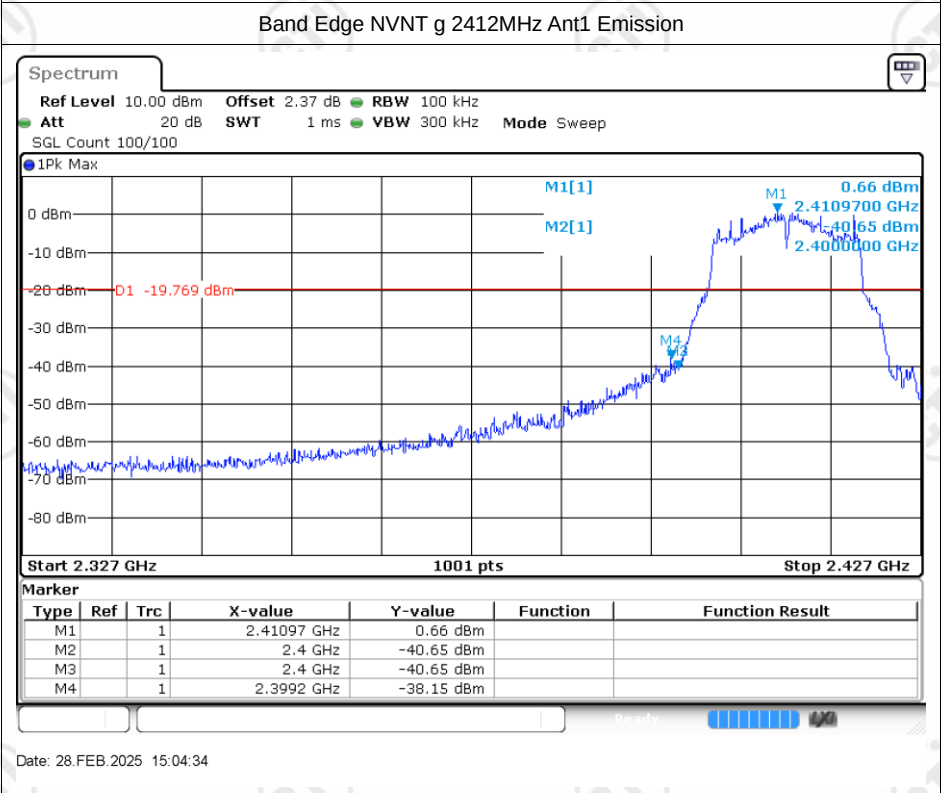
Date: 28.FEB.2025 14:42:17



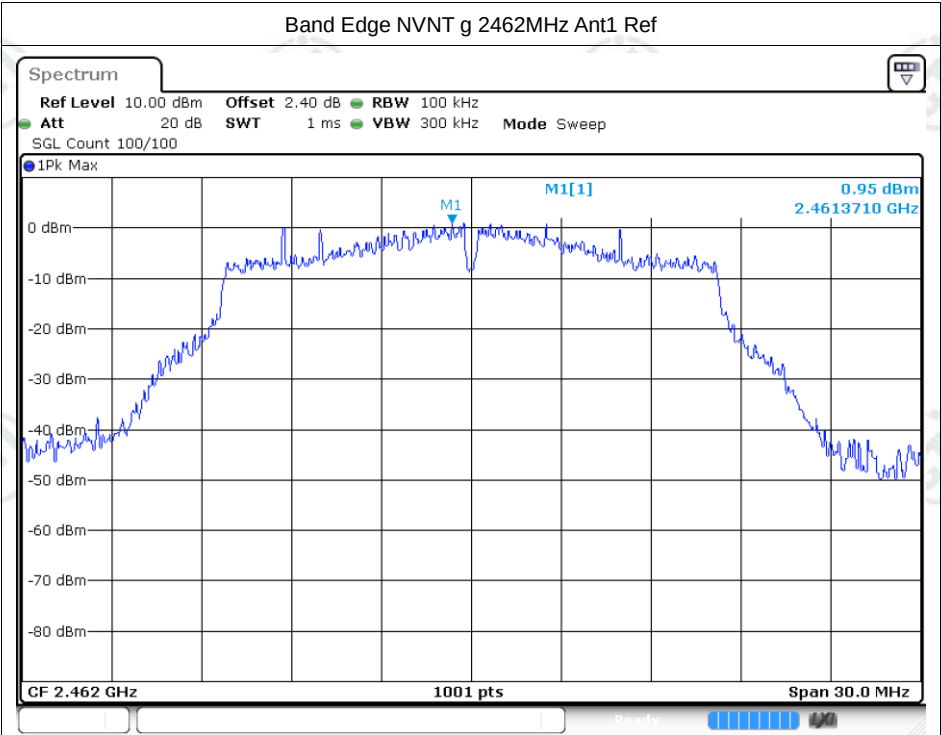
Date: 28.FEB.2025 14:42:18



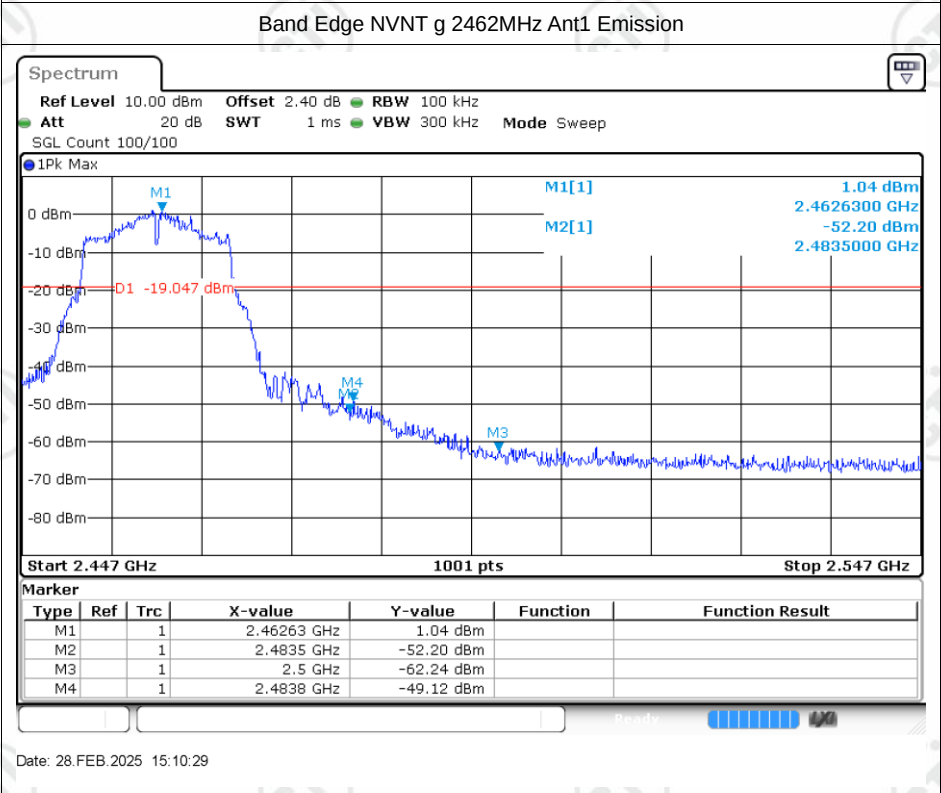
Date: 28.FEB.2025 15:04:33



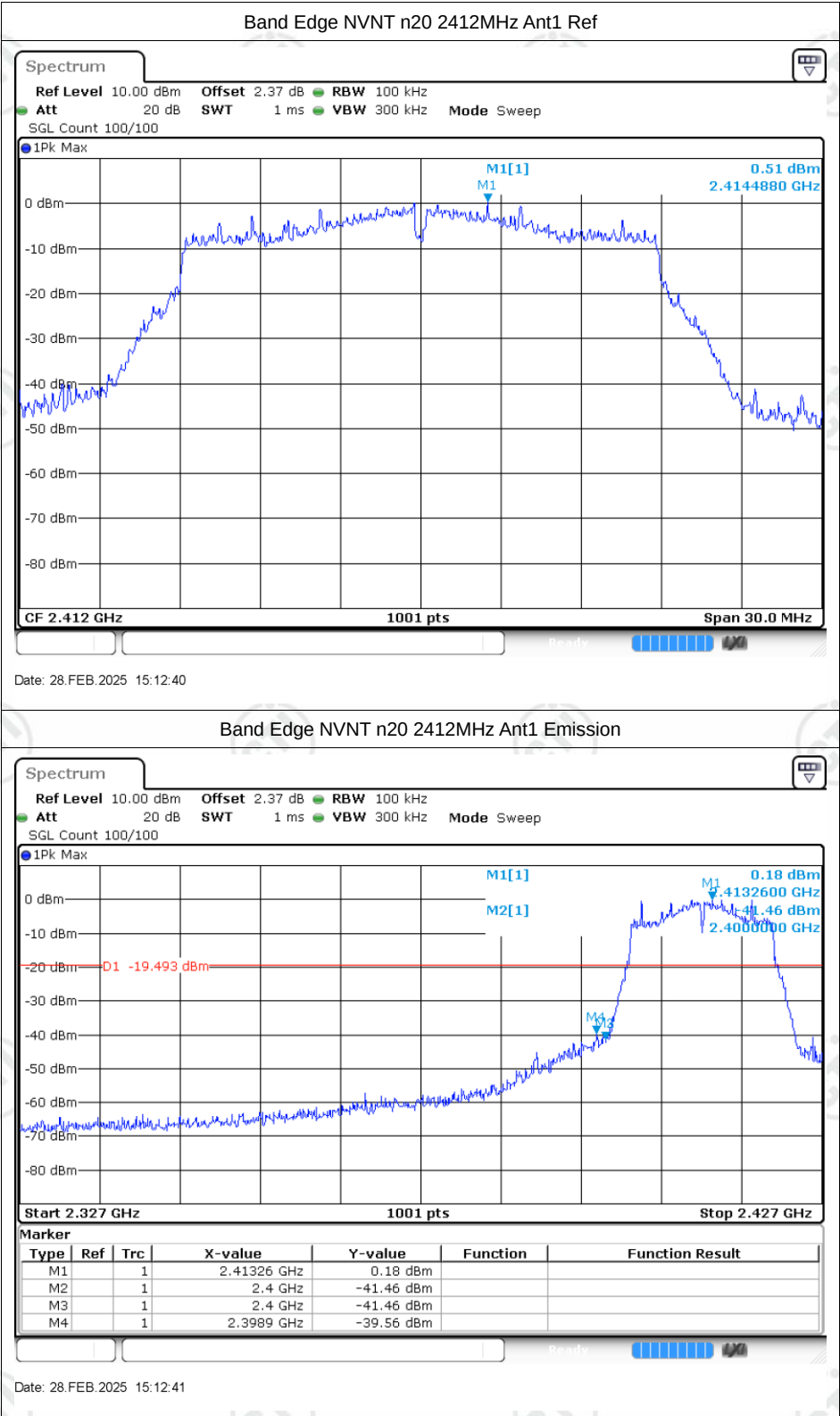
Date: 28.FEB.2025 15:04:34

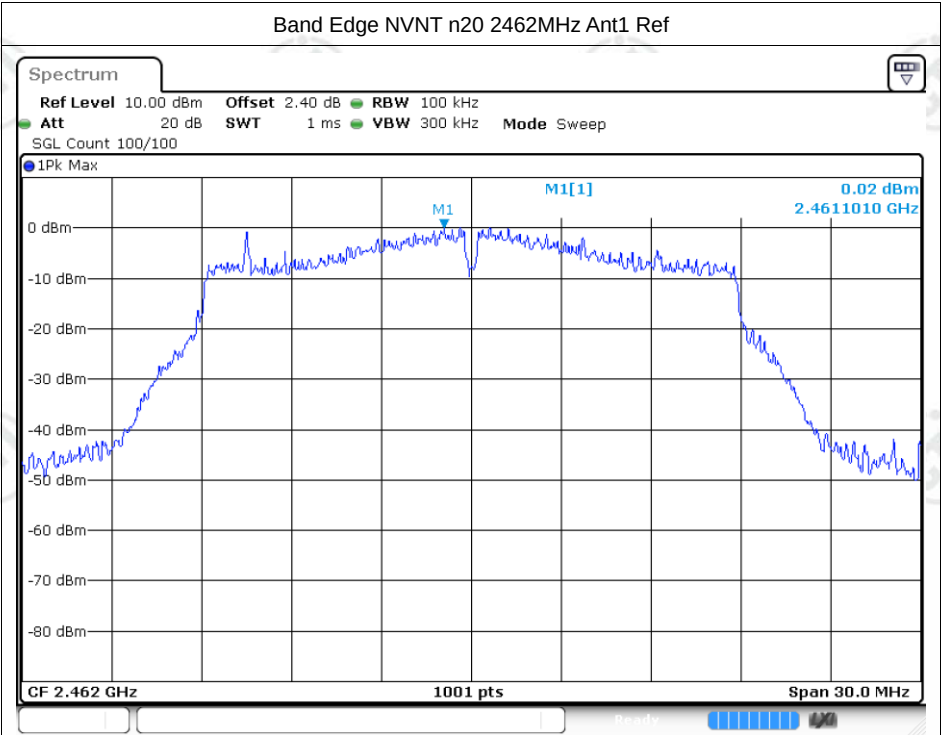


Date: 28.FEB.2025 15:10:27

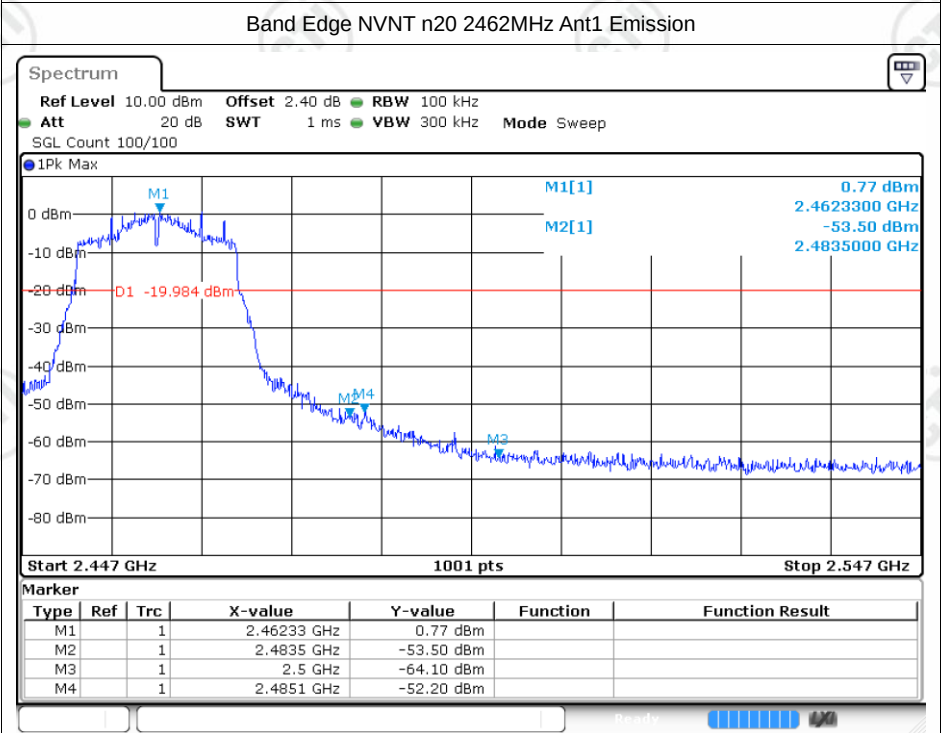


Date: 28.FEB.2025 15:10:29

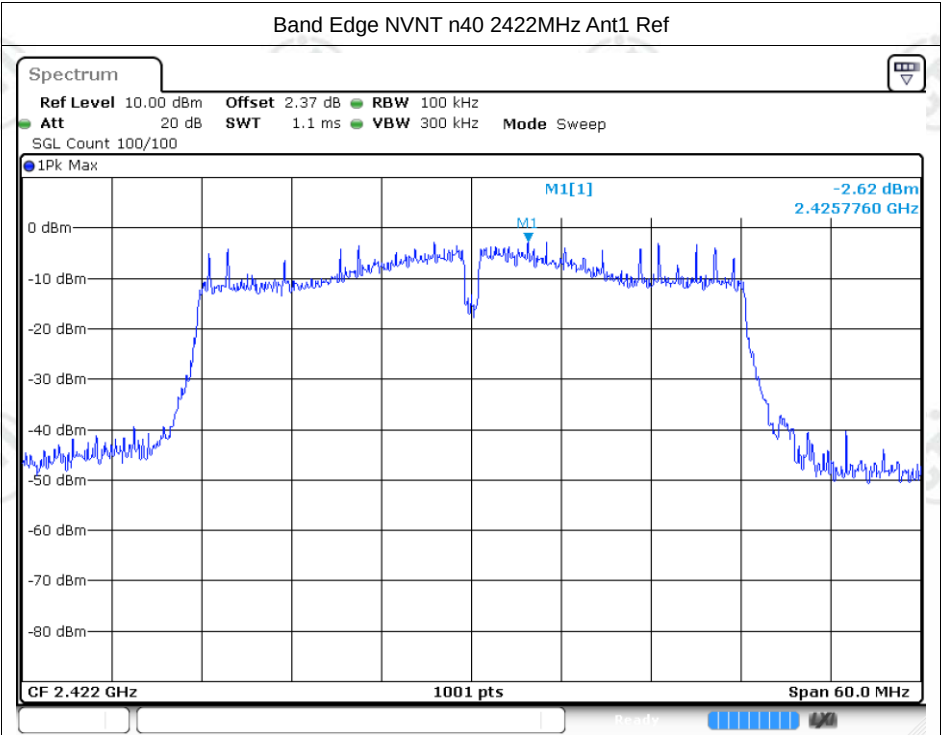




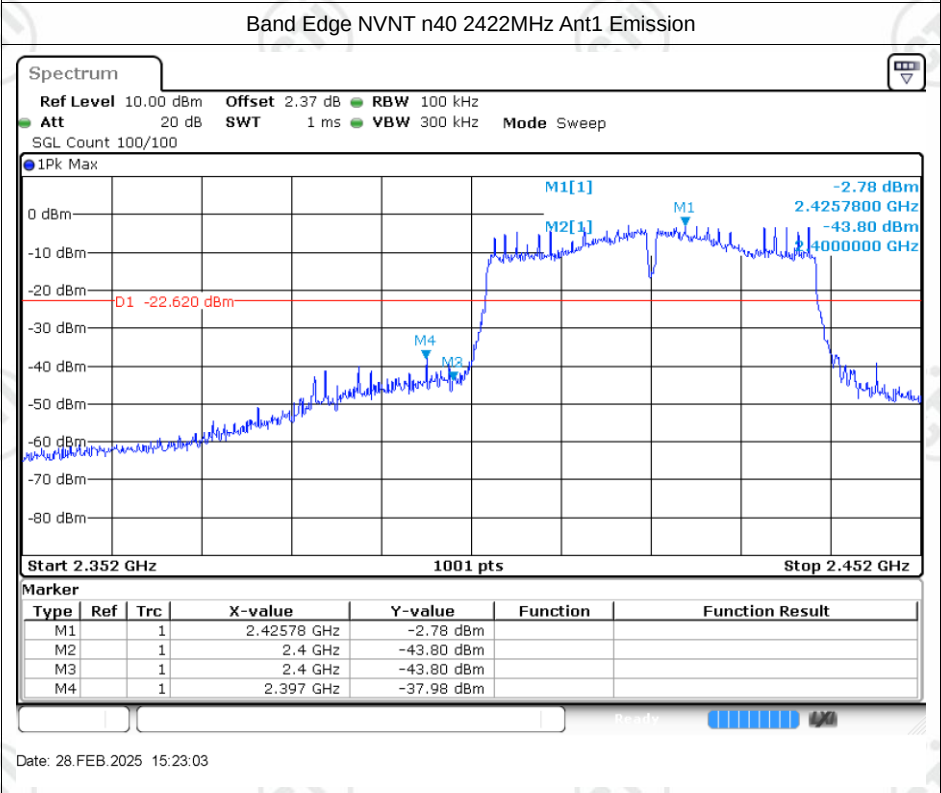
Date: 28.FEB.2025 15:17:04



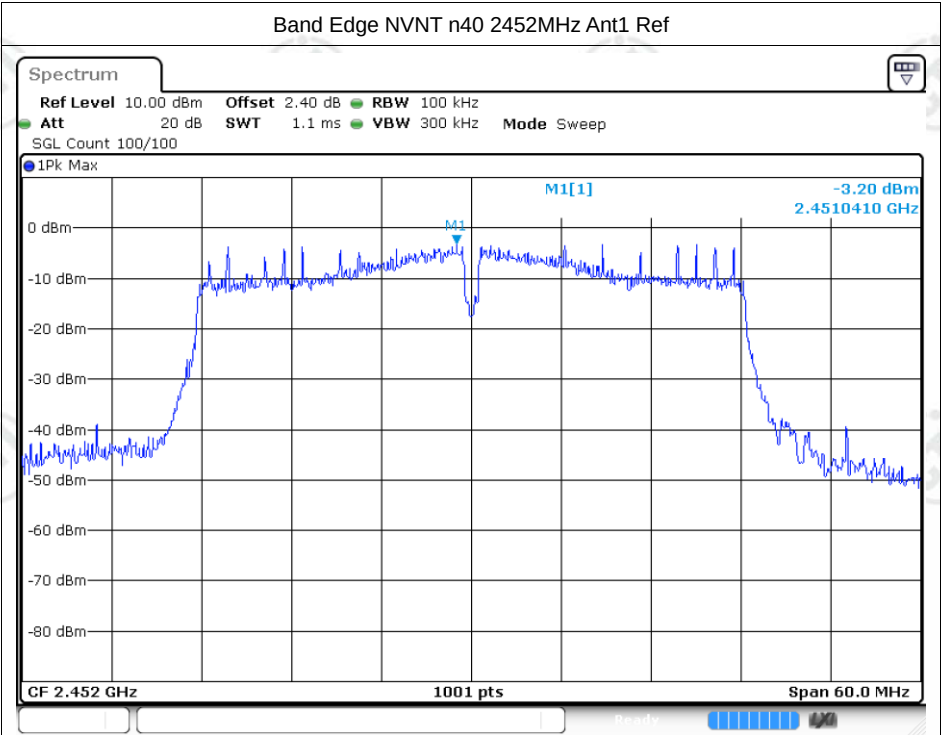
Date: 28.FEB.2025 15:17:05



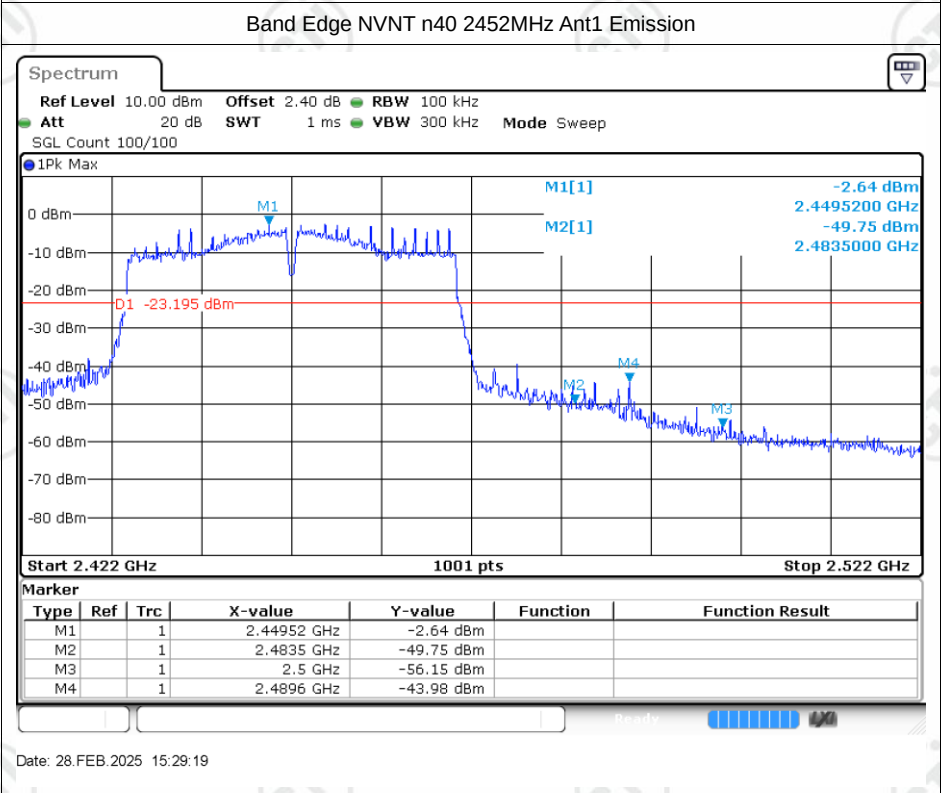
Date: 28.FEB.2025 15:23:01



Date: 28.FEB.2025 15:23:03

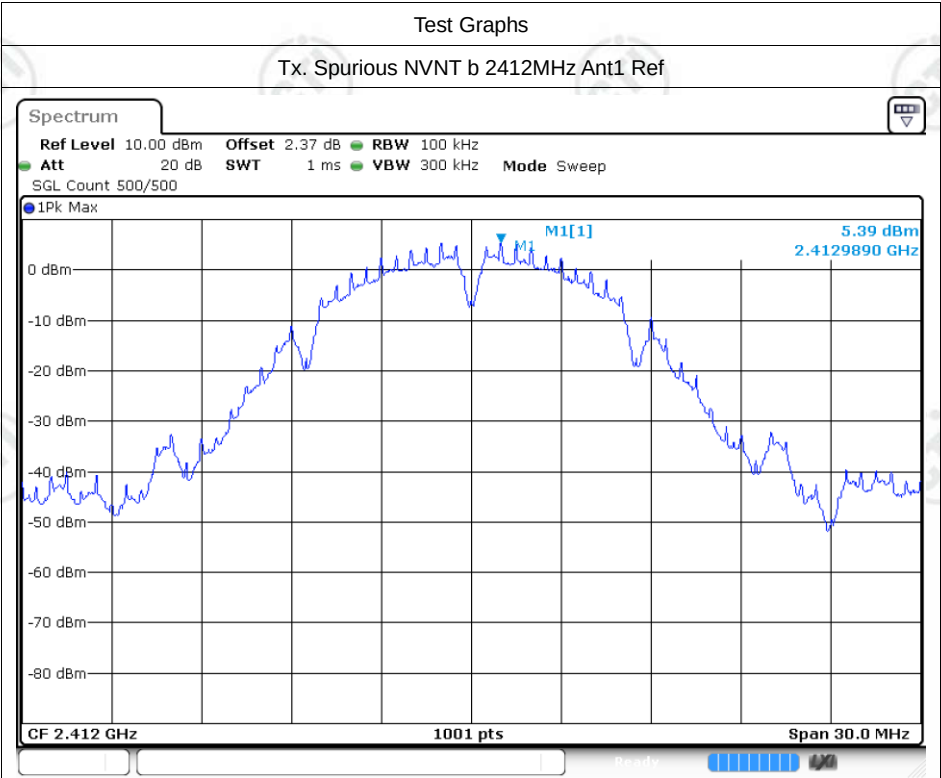


Date: 28.FEB.2025 15:29:17

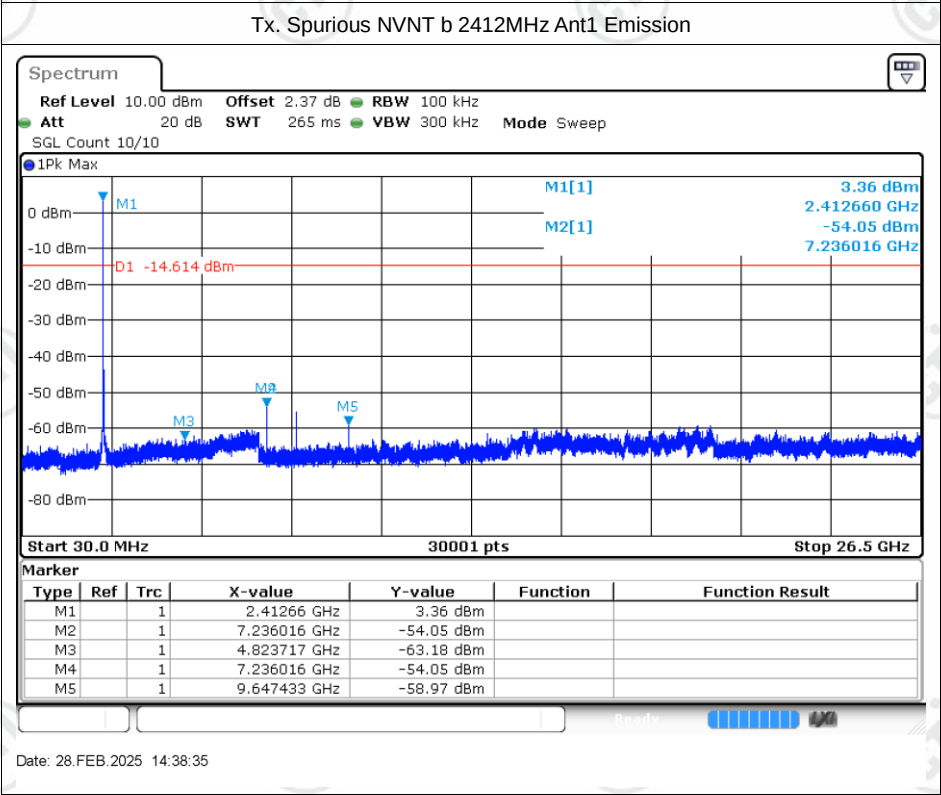


Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-59.44	-20	Pass
NVNT	b	2437	Ant1	-58.21	-20	Pass
NVNT	b	2462	Ant1	-57.29	-20	Pass
NVNT	g	2412	Ant1	-56.09	-20	Pass
NVNT	g	2437	Ant1	-53.01	-20	Pass
NVNT	g	2462	Ant1	-54.21	-20	Pass
NVNT	n20	2412	Ant1	-56.08	-20	Pass
NVNT	n20	2437	Ant1	-56.17	-20	Pass
NVNT	n20	2462	Ant1	-53.36	-20	Pass
NVNT	n40	2422	Ant1	-53.07	-20	Pass
NVNT	n40	2437	Ant1	-52.8	-20	Pass
NVNT	n40	2452	Ant1	-52.89	-20	Pass



Date: 28.FEB.2025 14:38:24



Date: 28.FEB.2025 14:38:35