Appendix: 2.4G WIFI of module 2

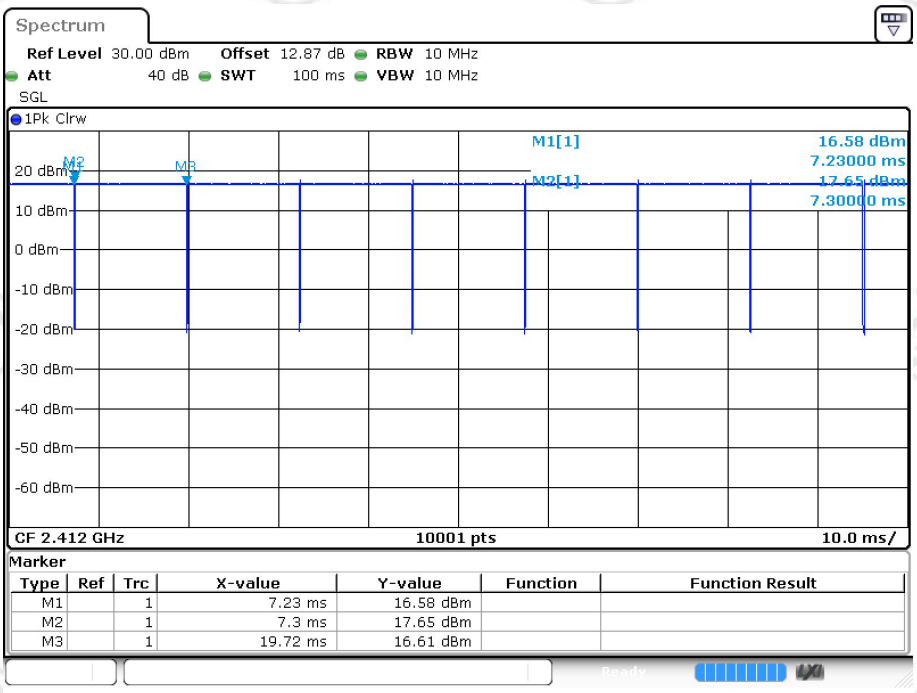
Contents

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.44	0	0.08
NVNT	b	2437	Ant1	98.96	0	0.08
NVNT	b	2462	Ant1	99.04	0	0.08
NVNT	g	2412	Ant1	96.05	0.18	0.48
NVNT	g	2437	Ant1	96.05	0.18	0.48
NVNT	g	2462	Ant1	93.44	0.29	0.48
NVNT	n20	2412	Ant1	96	0.18	0.52
NVNT	n20	2437	Ant1	92.98	0.32	0.52
NVNT	n20	2462	Ant1	94.58	0.24	0.52
NVNT	n40	2422	Ant1	94.4	0.25	1.06
NVNT	n40	2437	Ant1	94.4	0.25	1.06
NVNT	n40	2452	Ant1	87.41	0.58	1.06

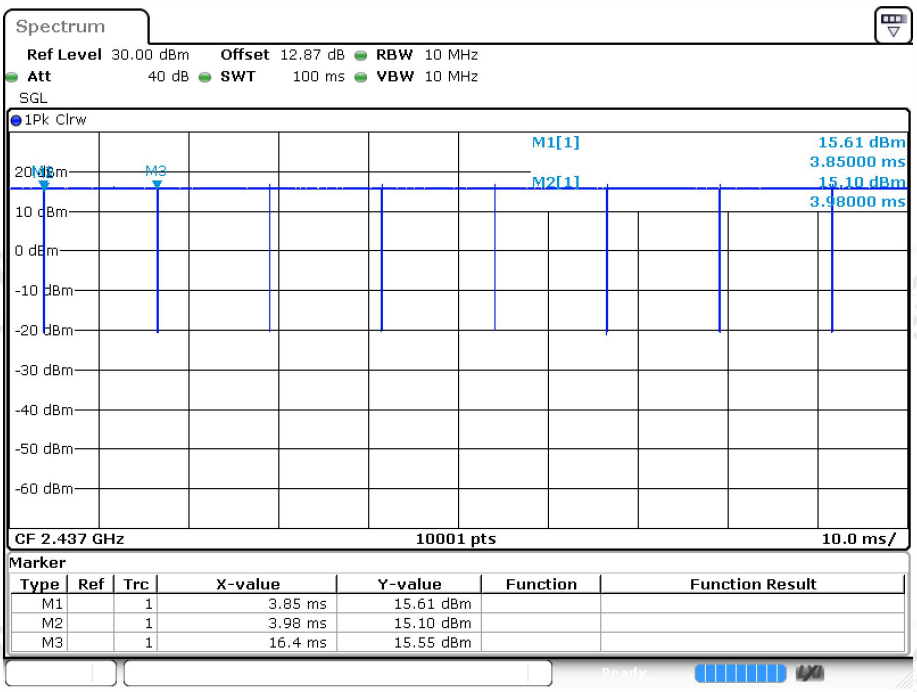
Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Date: 10.OCT.2022 23:42:23

Duty Cycle NVNT b 2437MHz Ant1



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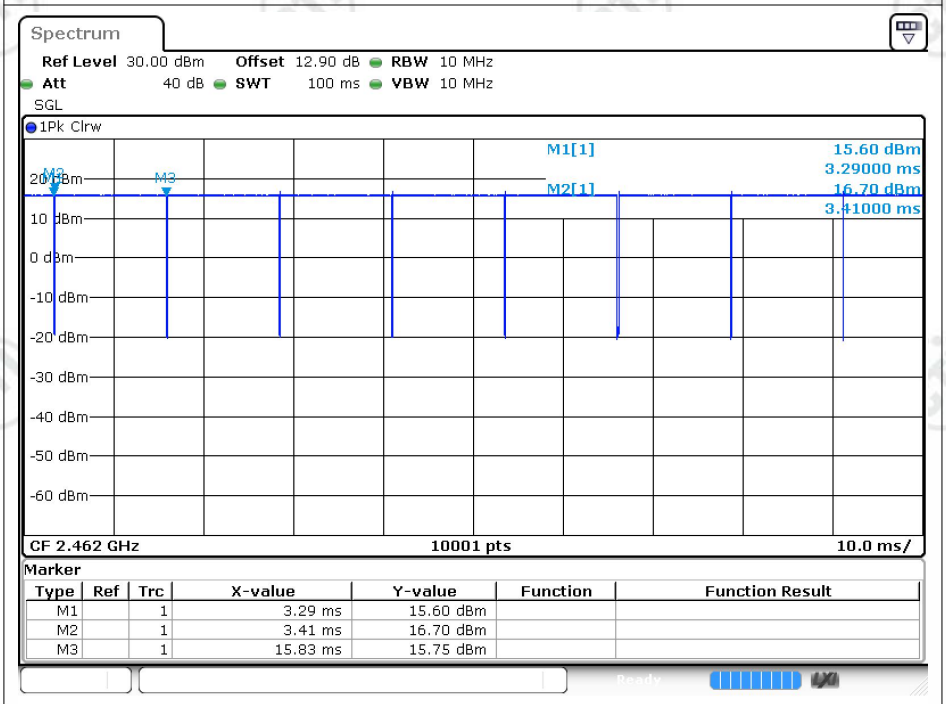
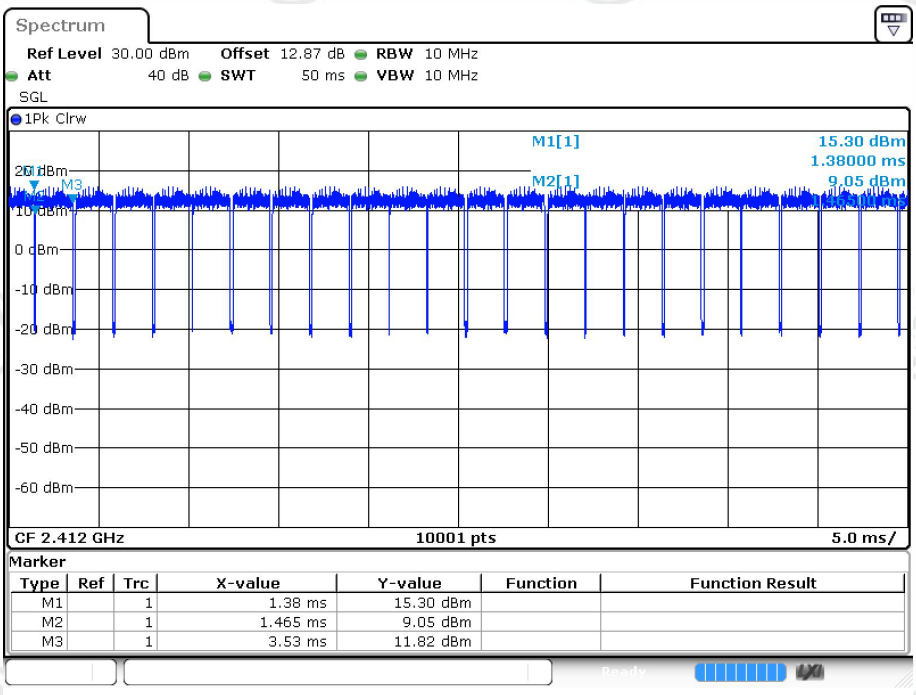
Duty Cycle NVNT b 2462MHz Ant1



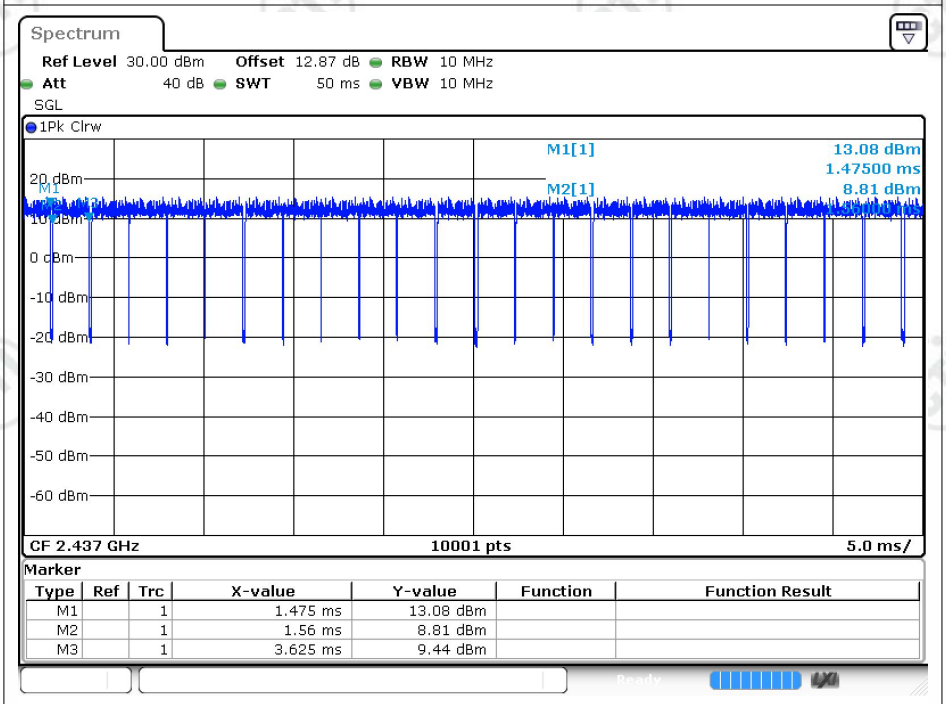
Date: 10.OCT.2022 23:55:38

Duty Cycle NVNT g 2412MHz Ant1



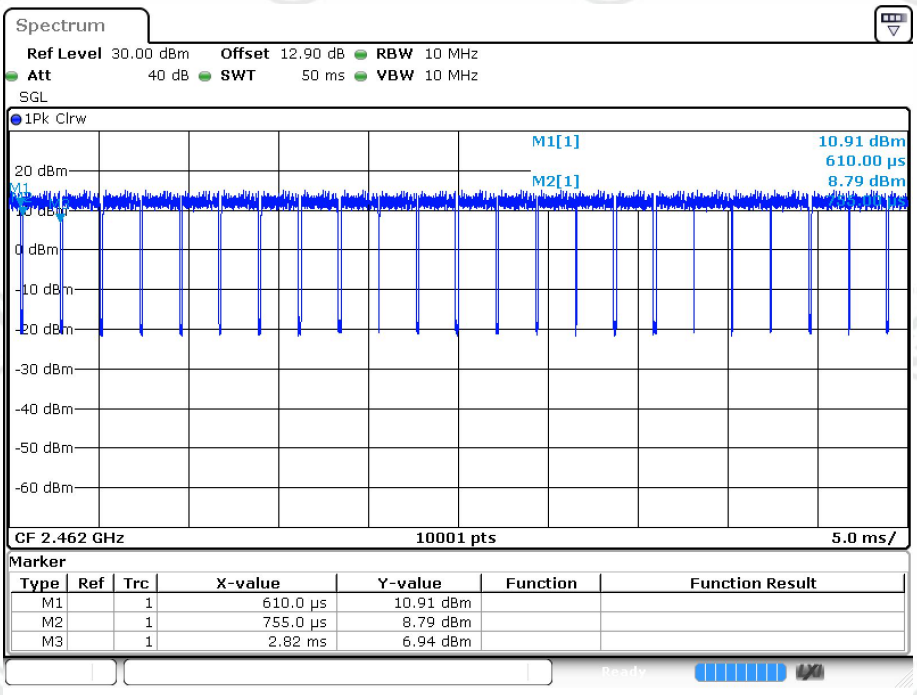
Date: 10.OCT.2022 23:58:21

Duty Cycle NVNT g 2437MHz Ant1



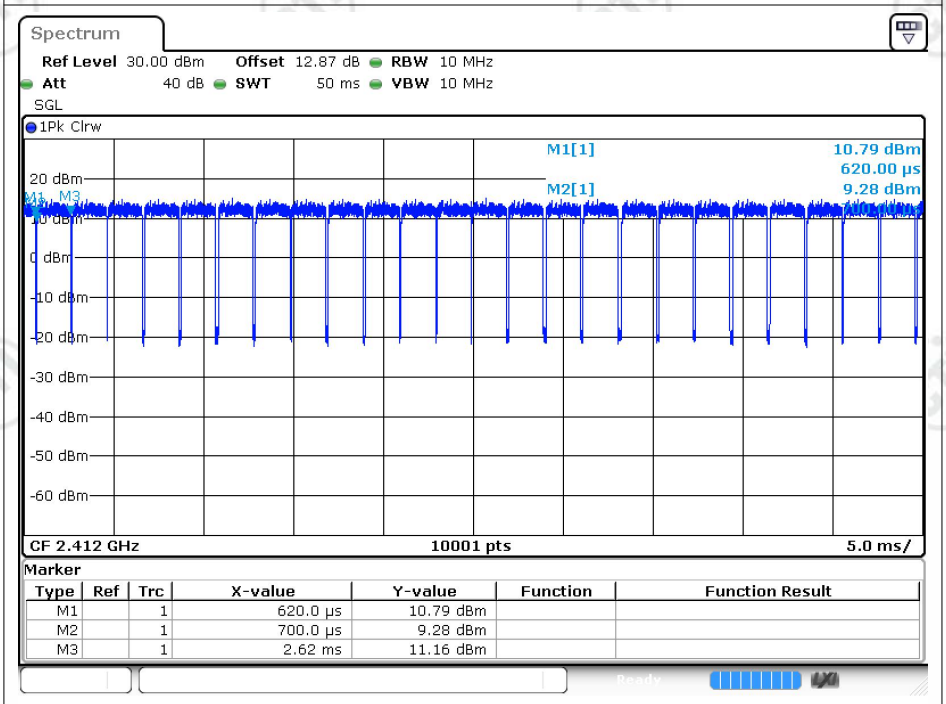
Date: 10.OCT.2022 23:59:12

Duty Cycle NVNT g 2462MHz Ant1



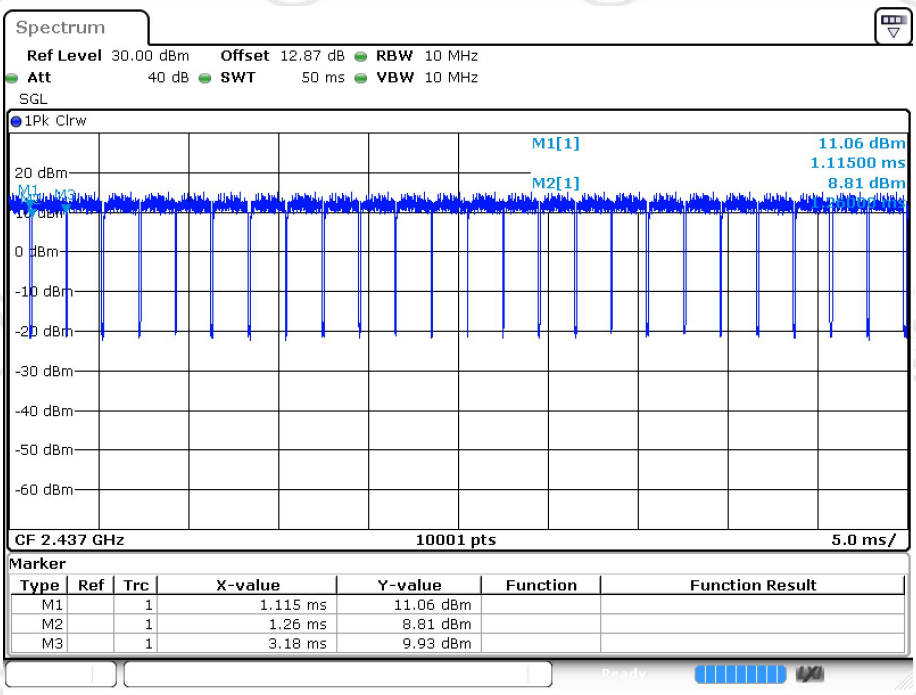
Date: 11.OCT.2022 00:00:32

Duty Cycle NVNT n20 2412MHz Ant1



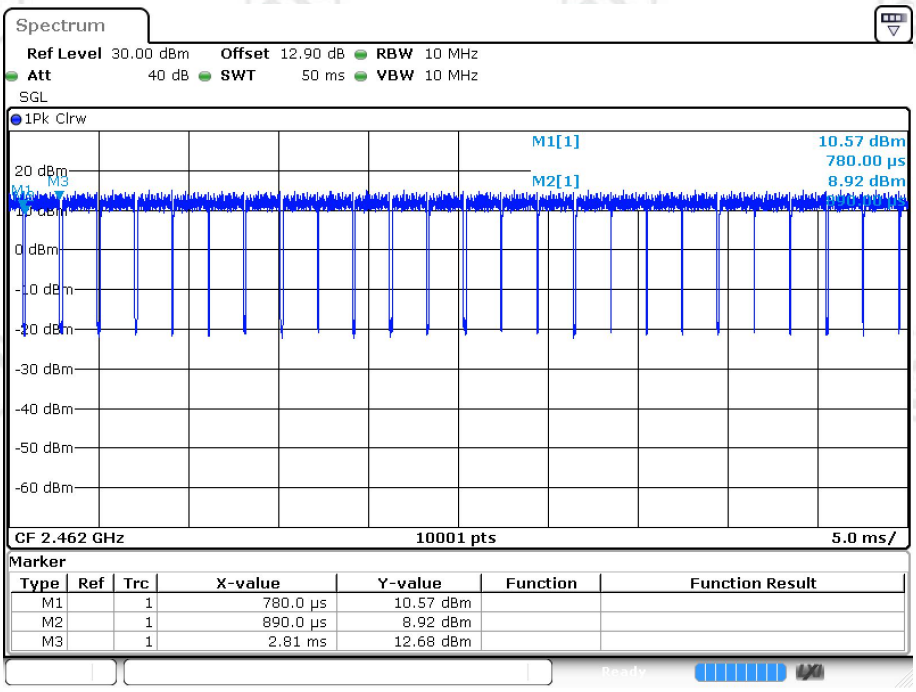
Date: 11.OCT.2022 00:02:19

Duty Cycle NVNT n20 2437MHz Ant1



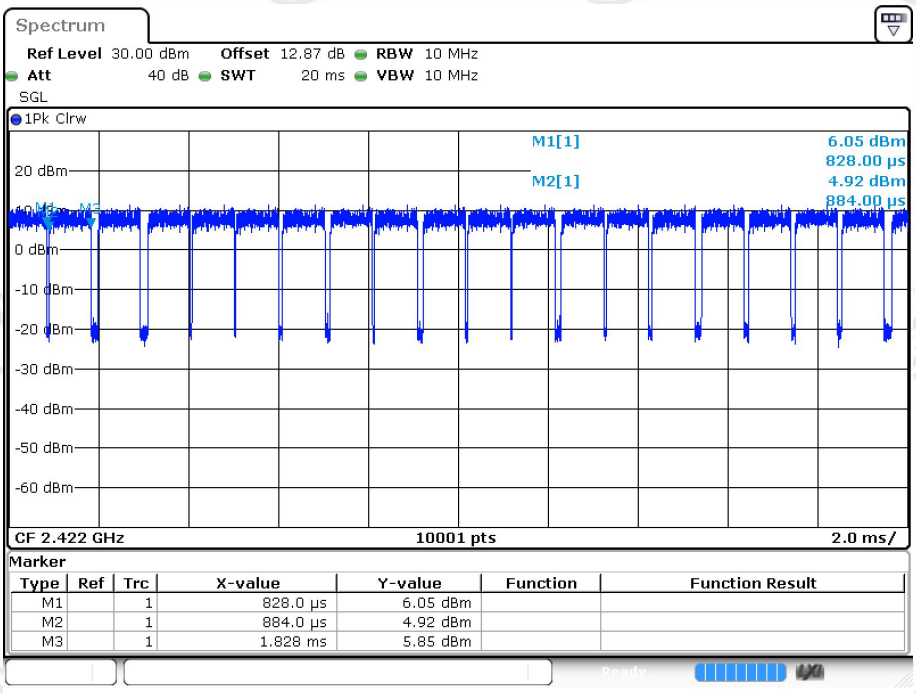
Date: 11.OCT.2022 00:03:43

Duty Cycle NVNT n20 2462MHz Ant1



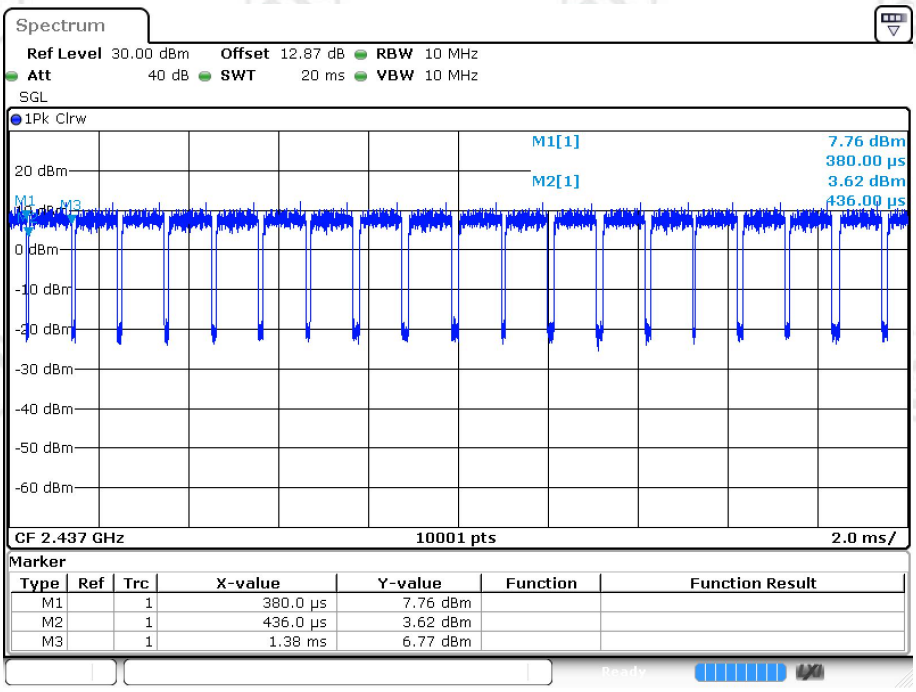
Date: 11.OCT.2022 00:05:29

Duty Cycle NVNT n40 2422MHz Ant1



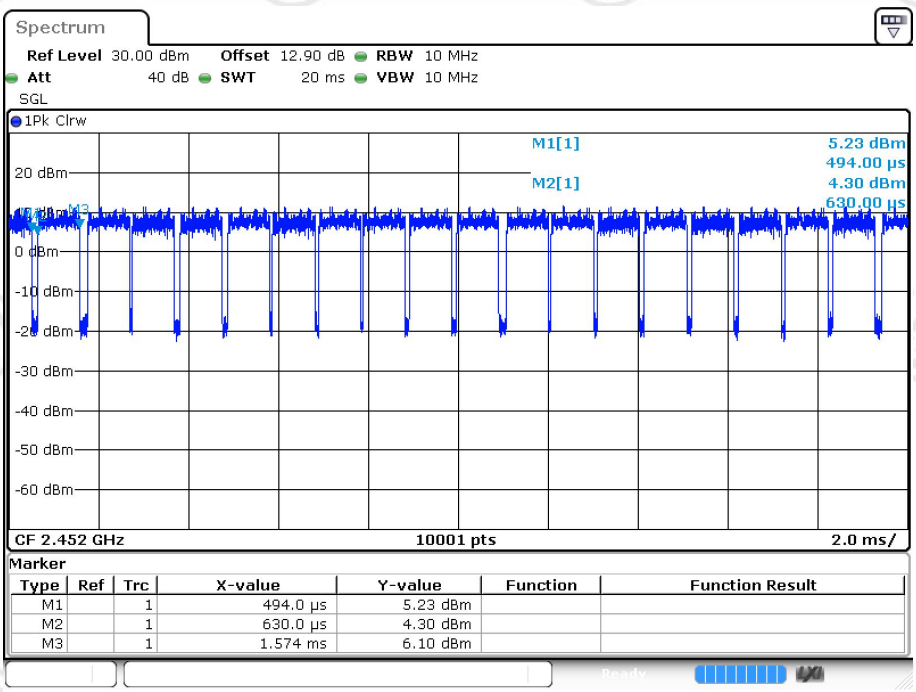
Date: 11.OCT.2022 00:07:45

Duty Cycle NVNT n40 2437MHz Ant1



Date: 11.OCT.2022 00:09:04

Duty Cycle NVNT n40 2452MHz Ant1



Date: 11.OCT.2022 00:10:00

Maximum Peak Conducted Output Power

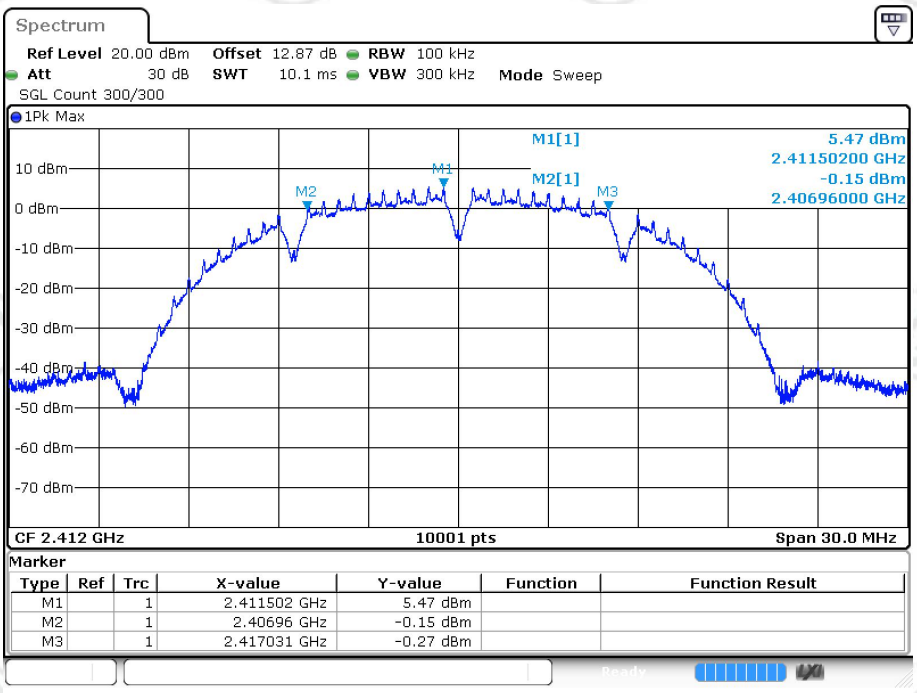
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.59	0	17.59	30	Pass
NVNT	b	2437	Ant1	17.28	0	17.28	30	Pass
NVNT	b	2462	Ant1	17.21	0	17.21	30	Pass
NVNT	g	2412	Ant1	16.19	0	16.19	30	Pass
NVNT	g	2437	Ant1	15.96	0	15.96	30	Pass
NVNT	g	2462	Ant1	15.95	0	15.95	30	Pass
NVNT	n20	2412	Ant1	16.13	0	16.13	30	Pass
NVNT	n20	2437	Ant1	15.89	0	15.89	30	Pass
NVNT	n20	2462	Ant1	15.89	0	15.89	30	Pass
NVNT	n40	2422	Ant1	15.37	0	15.37	30	Pass
NVNT	n40	2437	Ant1	15.27	0	15.27	30	Pass
NVNT	n40	2452	Ant1	15.26	0	15.26	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.071	0.5	Pass
NVNT	b	2437	Ant1	10.074	0.5	Pass
NVNT	b	2462	Ant1	10.062	0.5	Pass
NVNT	g	2412	Ant1	16.32	0.5	Pass
NVNT	g	2437	Ant1	16.305	0.5	Pass
NVNT	g	2462	Ant1	16.311	0.5	Pass
NVNT	n20	2412	Ant1	17.031	0.5	Pass
NVNT	n20	2437	Ant1	16.992	0.5	Pass
NVNT	n20	2462	Ant1	17.067	0.5	Pass
NVNT	n40	2422	Ant1	35.118	0.5	Pass
NVNT	n40	2437	Ant1	35.13	0.5	Pass
NVNT	n40	2452	Ant1	35.058	0.5	Pass

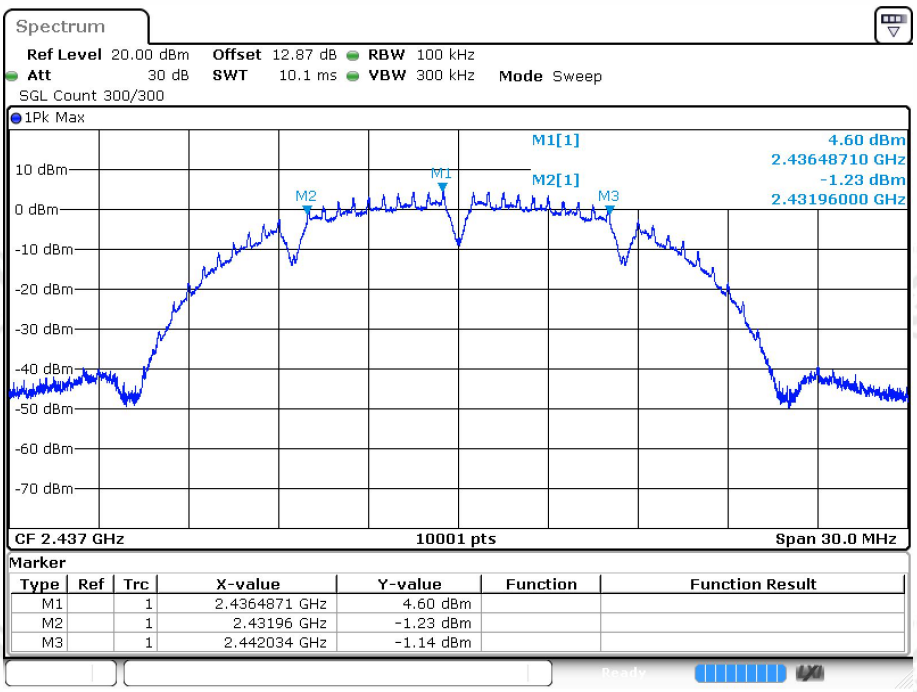
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



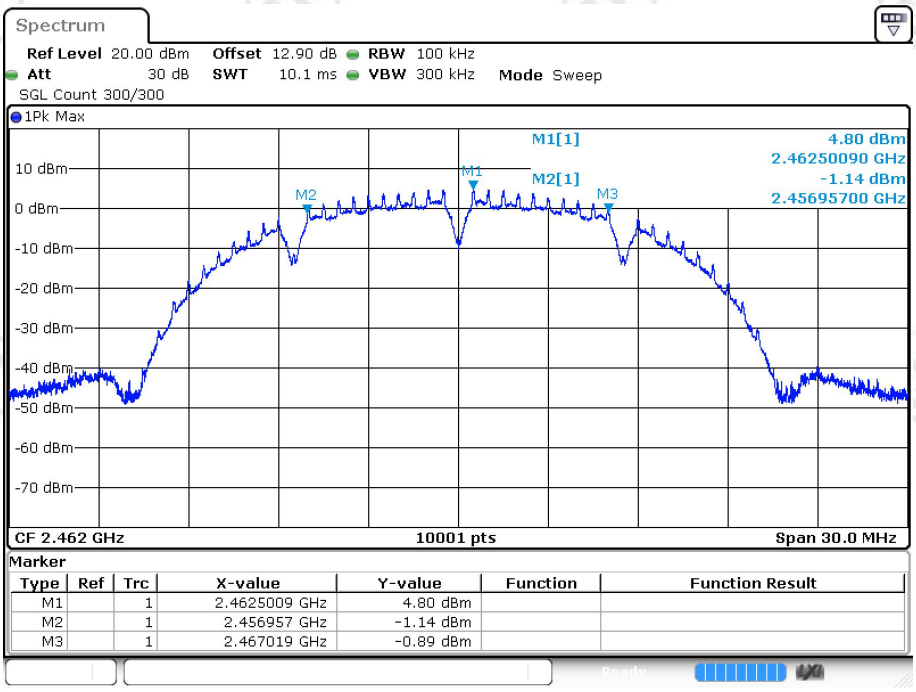
Date: 10.OCT.2022 23:42:55

-6dB Bandwidth NVNT b 2437MHz Ant1



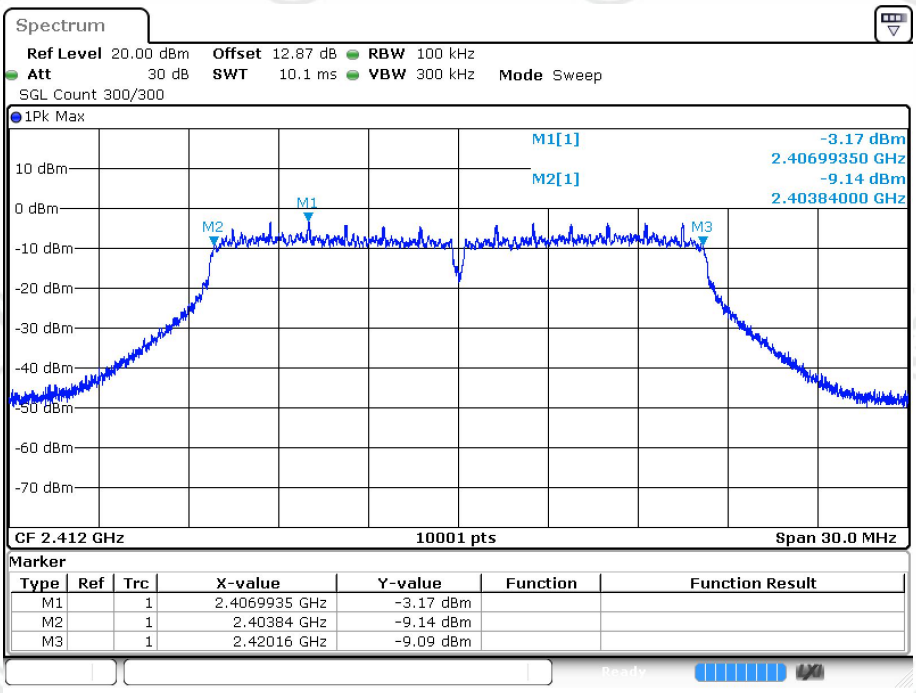
Date: 10.OCT.2022 23:53:32

-6dB Bandwidth NVNT b 2462MHz Ant1



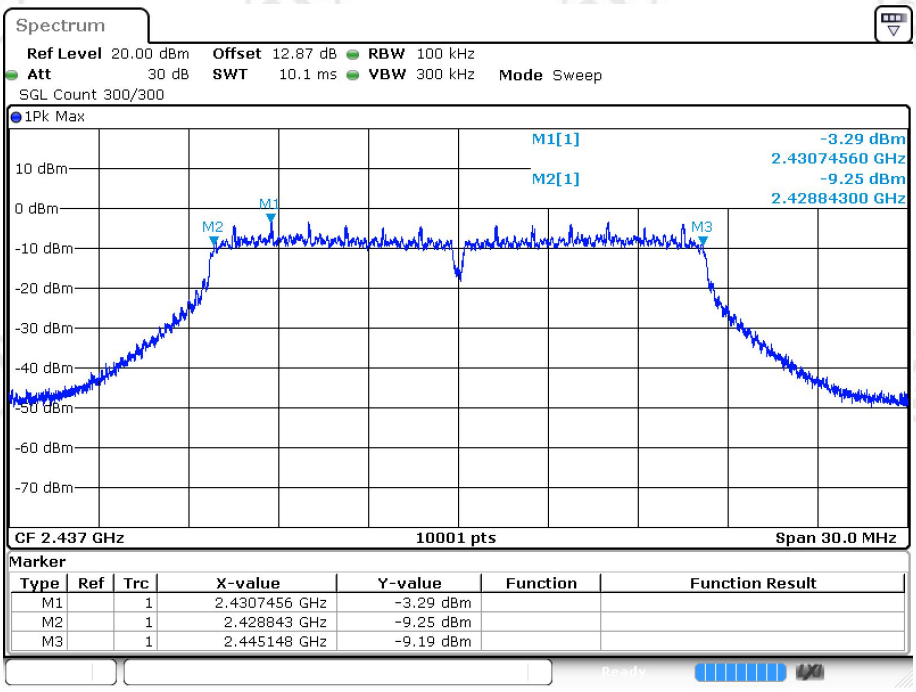
Date: 10.OCT.2022 23:55:55

-6dB Bandwidth NVNT g 2412MHz Ant1



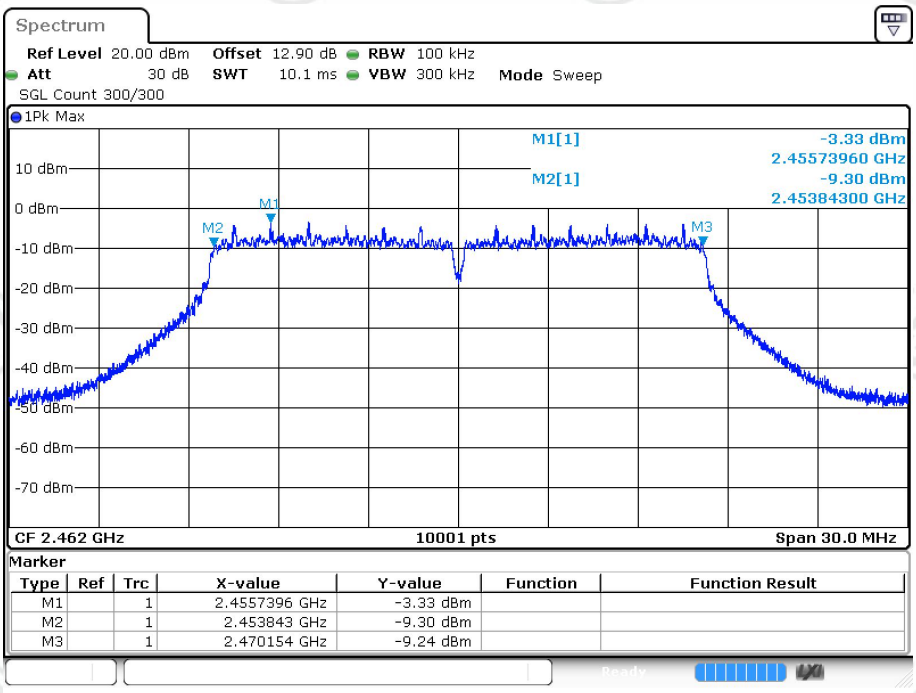
Date: 10.OCT.2022 23:57:30

-6dB Bandwidth NVNT g 2437MHz Ant1



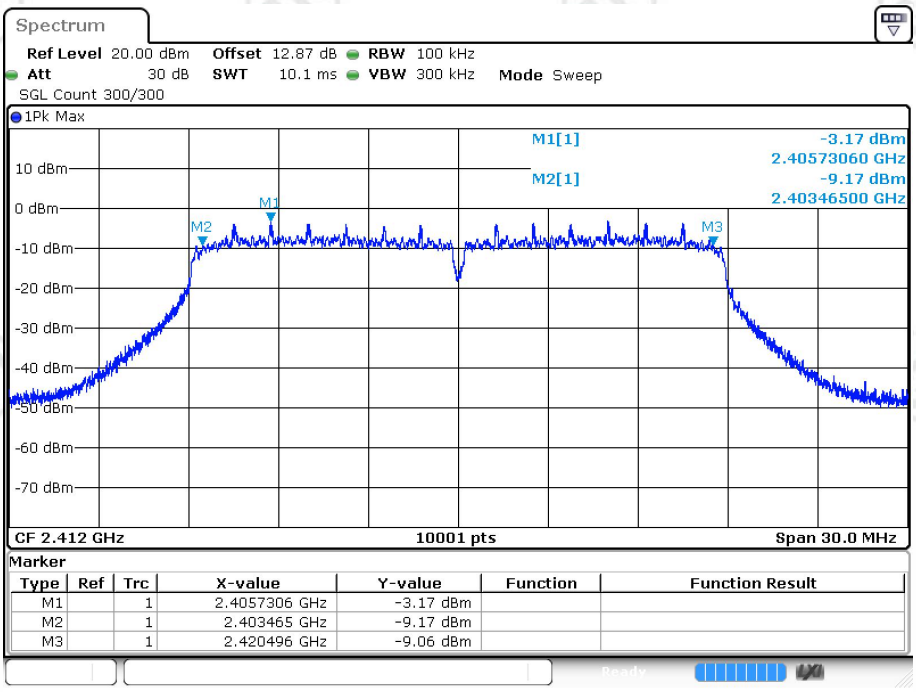
Date: 10.OCT.2022 23:59:28

-6dB Bandwidth NVNT g 2462MHz Ant1



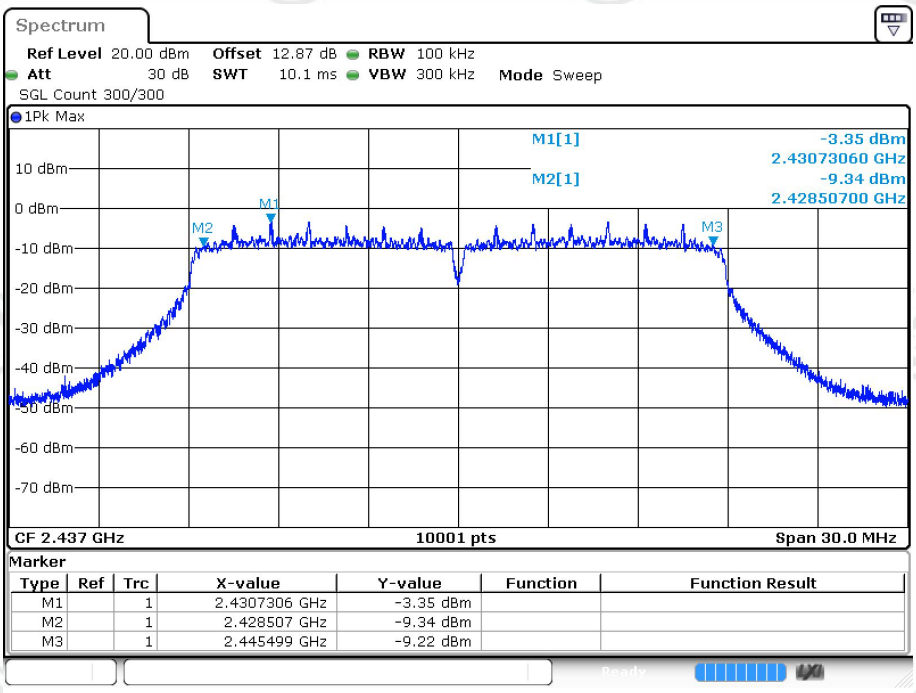
Date: 11.OCT.2022 00:00:49

-6dB Bandwidth NVNT n20 2412MHz Ant1



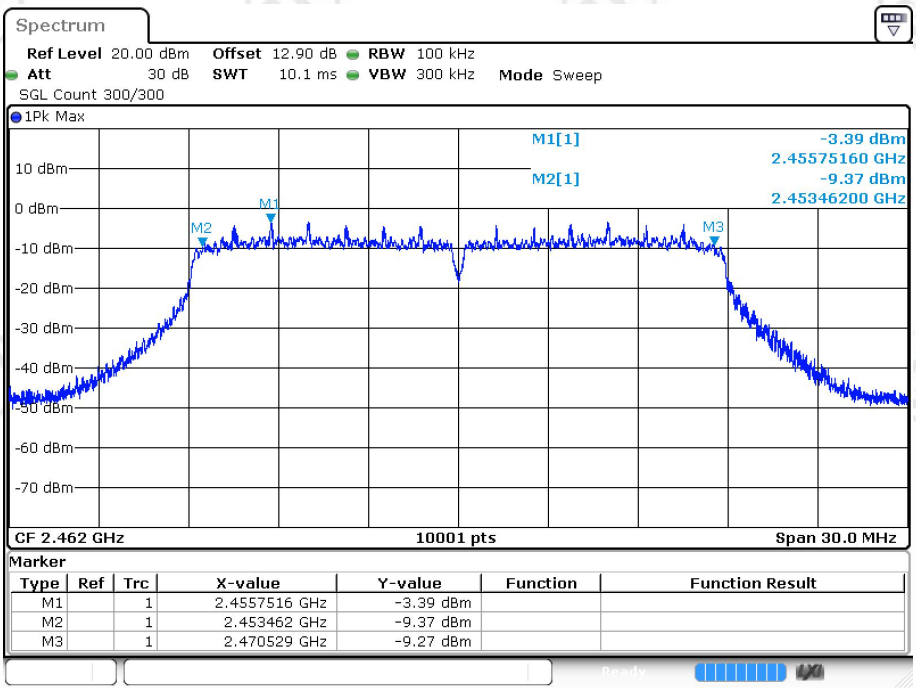
Date: 11.OCT.2022 00:02:35

-6dB Bandwidth NVNT n20 2437MHz Ant1



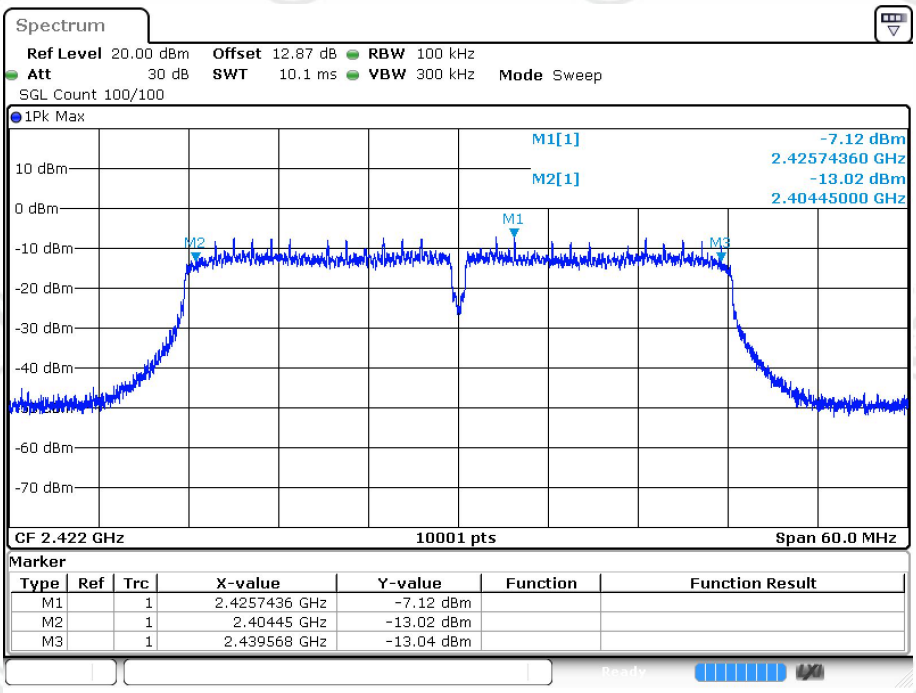
Date: 11.OCT.2022 00:04:05

-6dB Bandwidth NVNT n20 2462MHz Ant1



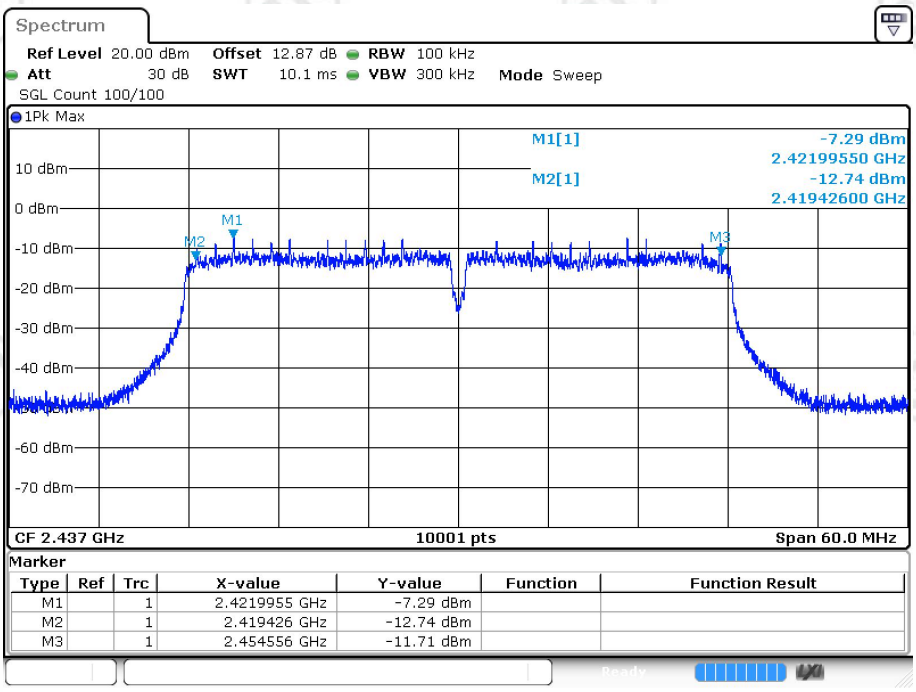
Date: 11.OCT.2022 00:06:22

-6dB Bandwidth NVNT n40 2422MHz Ant1



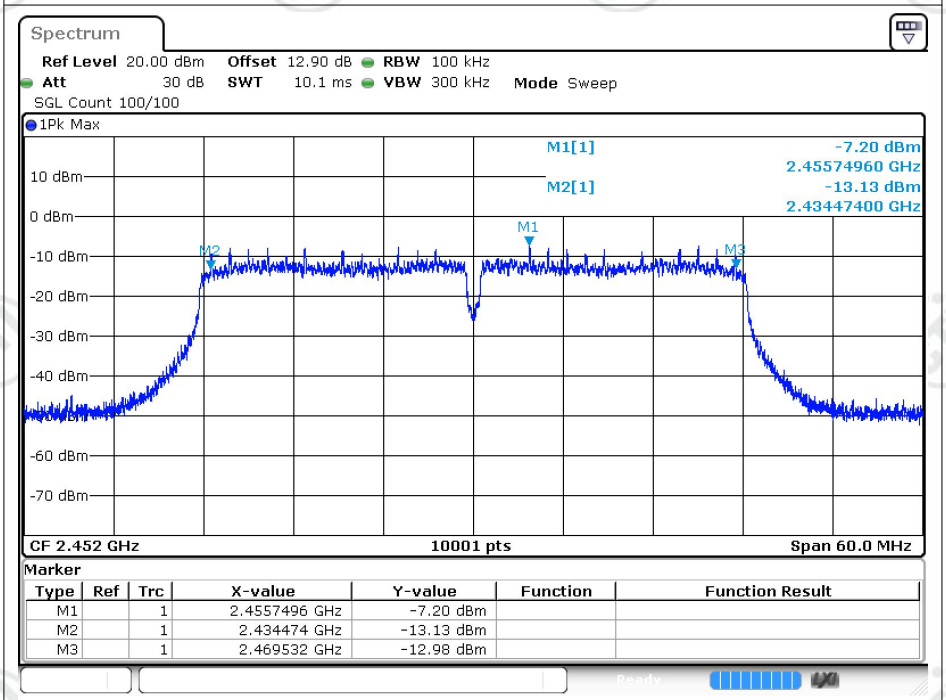
Date: 11.OCT.2022 00:08:01

-6dB Bandwidth NVNT n40 2437MHz Ant1



Date: 11.OCT.2022 00:09:20

-6dB Bandwidth NVNT n40 2452MHz Ant1



Date: 11.OCT.2022 00:36:00

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.96
NVNT	b	2437	Ant1	14.966
NVNT	b	2462	Ant1	14.954
NVNT	g	2412	Ant1	16.786
NVNT	g	2437	Ant1	16.783
NVNT	g	2462	Ant1	16.747
NVNT	n20	2412	Ant1	17.779
NVNT	n20	2437	Ant1	17.821
NVNT	n20	2462	Ant1	17.734
NVNT	n40	2422	Ant1	36.146
NVNT	n40	2437	Ant1	36.158
NVNT	n40	2452	Ant1	36.176