Appendix: 2.4G Wi-Fi

Contents

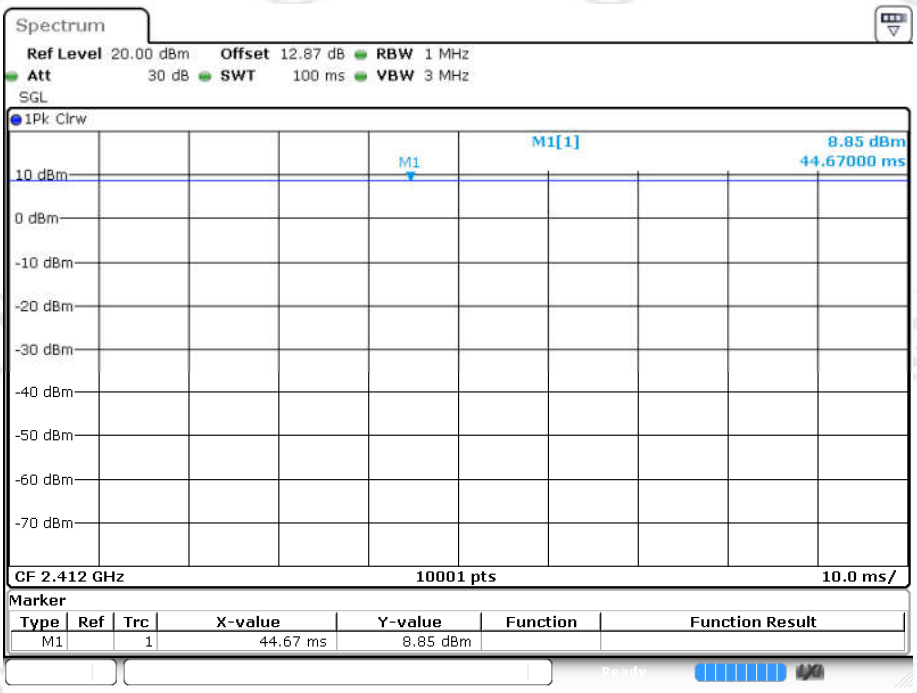
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	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	b	2412	Ant2	100	0	0
NVNT	b	2437	Ant2	100	0	0
NVNT	b	2462	Ant2	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	g	2412	Ant2	100	0	0
NVNT	g	2437	Ant2	100	0	0
NVNT	g	2462	Ant2	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	n20	2412	Ant2	100	0	0
NVNT	n20	2437	Ant2	100	0	0
NVNT	n20	2462	Ant2	100	0	0
NVNT	n40	2422	Ant1	100	0	0
NVNT	n40	2437	Ant1	100	0	0
NVNT	n40	2452	Ant1	100	0	0
NVNT	n40	2422	Ant2	100	0	0
NVNT	n40	2437	Ant2	100	0	0
NVNT	n40	2452	Ant2	100	0	0
NVNT	ax20	2412	Ant1	100	0	0
NVNT	ax20	2437	Ant1	100	0	0
NVNT	ax20	2462	Ant1	100	0	0
NVNT	ax20	2412	Ant2	100	0	0
NVNT	ax20	2437	Ant2	100	0	0
NVNT	ax20	2462	Ant2	100	0	0
NVNT	ax40	2422	Ant1	100	0	0
NVNT	ax40	2437	Ant1	100	0	0
NVNT	ax40	2452	Ant1	100	0	0
NVNT	ax40	2422	Ant2	100	0	0
NVNT	ax40	2437	Ant2	100	0	0
NVNT	ax40	2452	Ant2	100	0	0

Note:Duty Cycle Correction Factor (dB)=-10*lg(Duty Cycle);

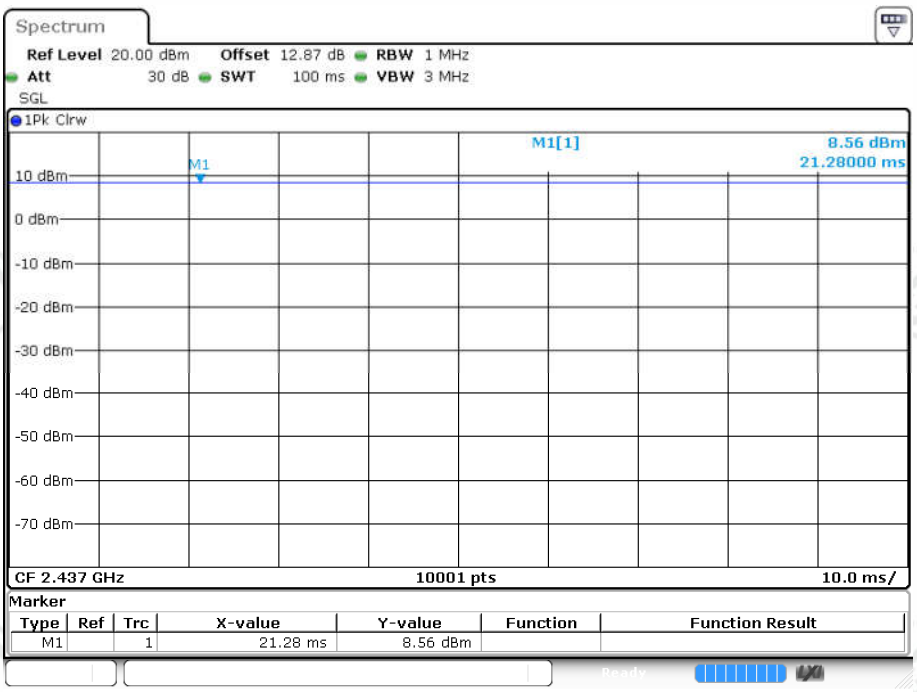
Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



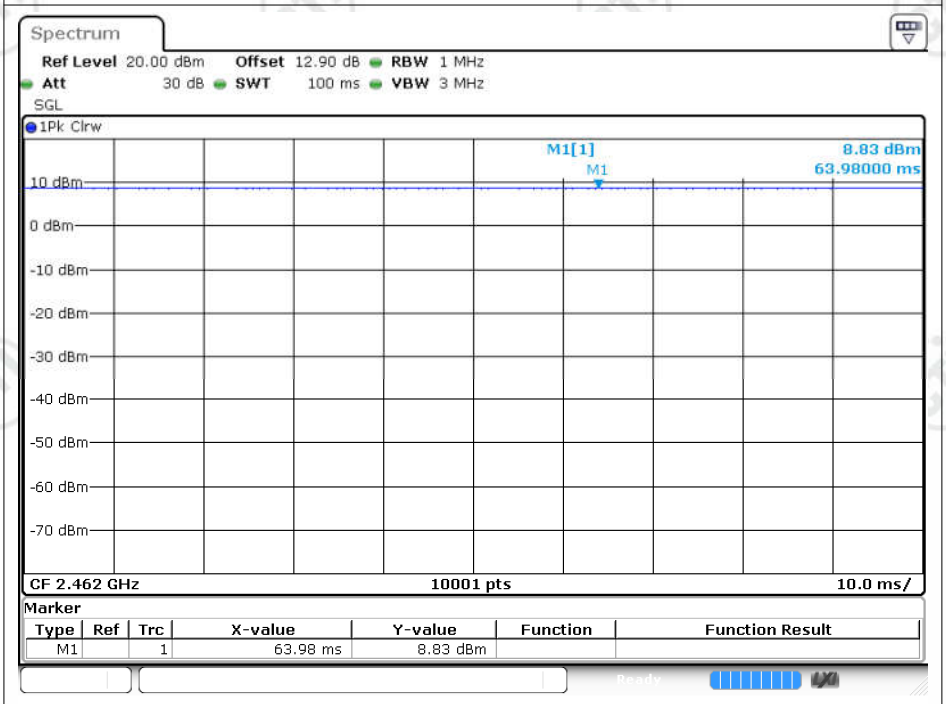
Date: 14.SEP.2024 13:09:02

Duty Cycle NVNT b 2437MHz Ant1



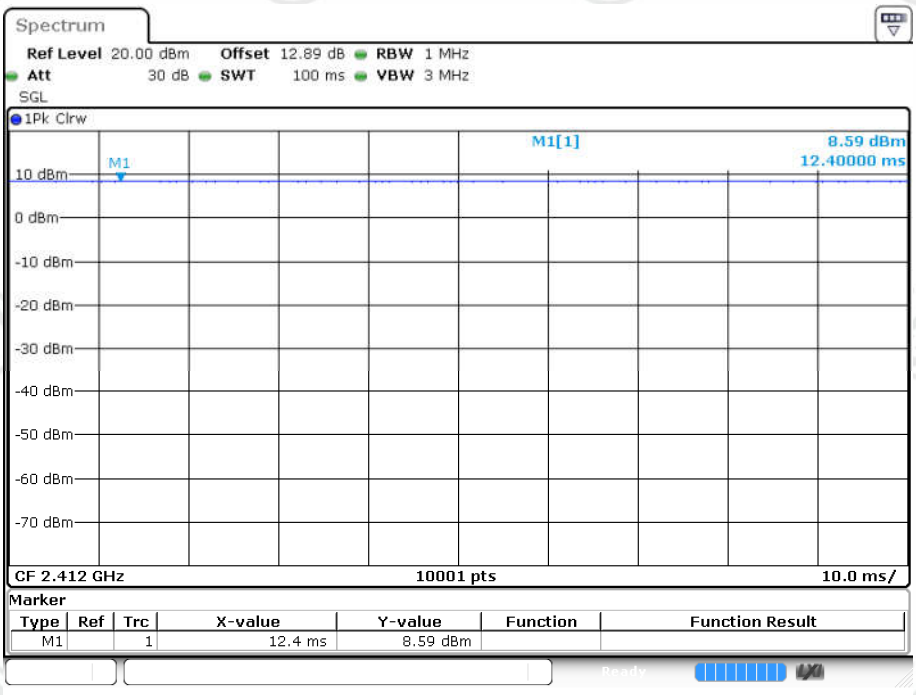
Date: 14.SEP.2024 13:09:51

Duty Cycle NVNT b 2462MHz Ant1



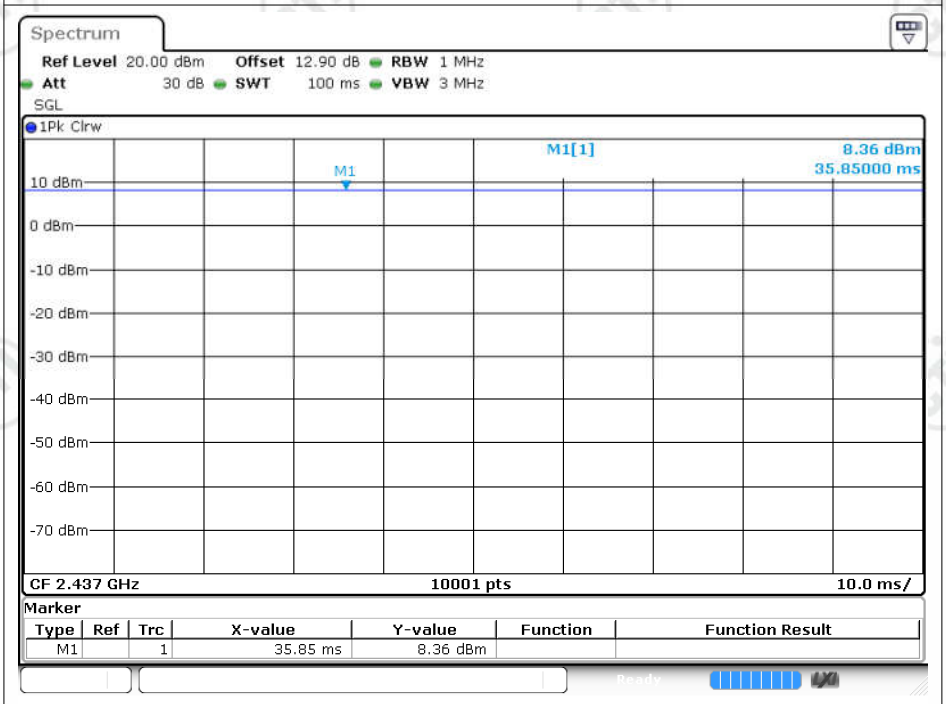
Date: 14.SEP.2024 13:10:10

Duty Cycle NVNT b 2412MHz Ant2



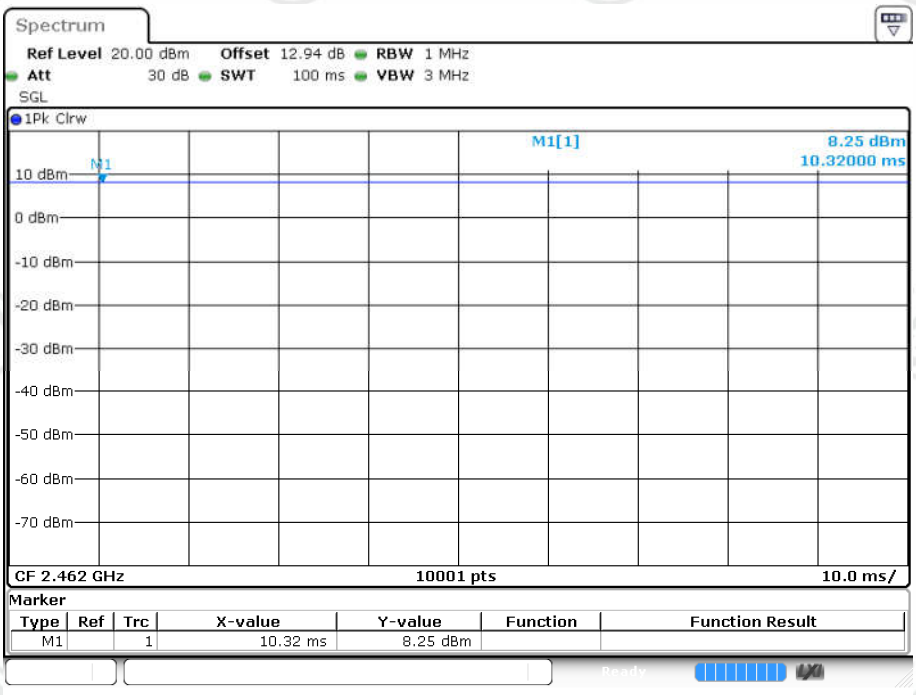
Date: 14.SEP.2024 13:25:00

Duty Cycle NVNT b 2437MHz Ant2



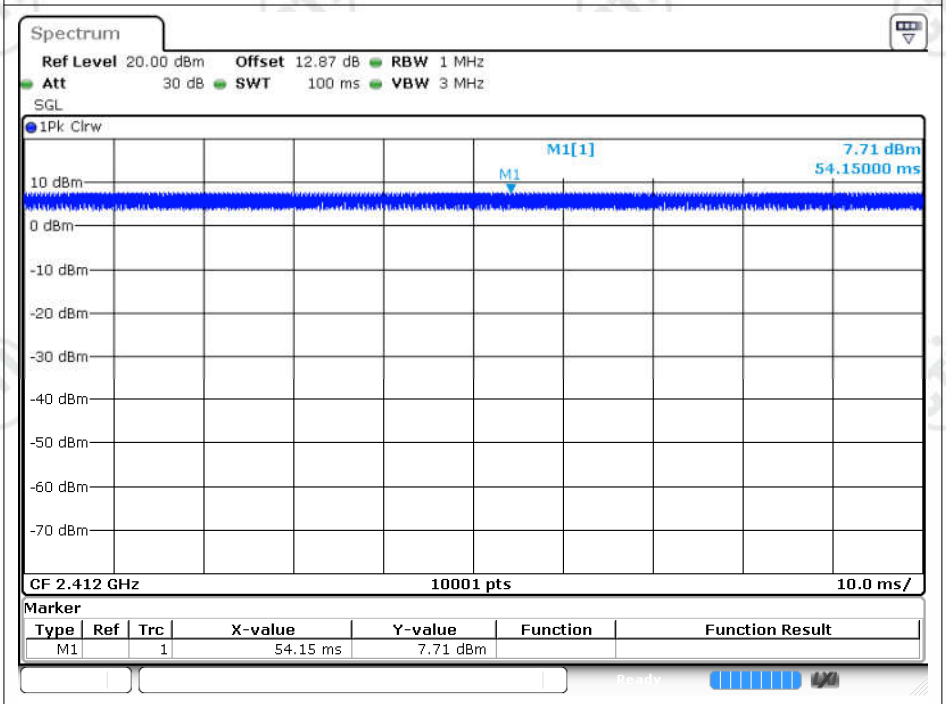
Date: 14.SEP.2024 13:25:22

Duty Cycle NVNT b 2462MHz Ant2



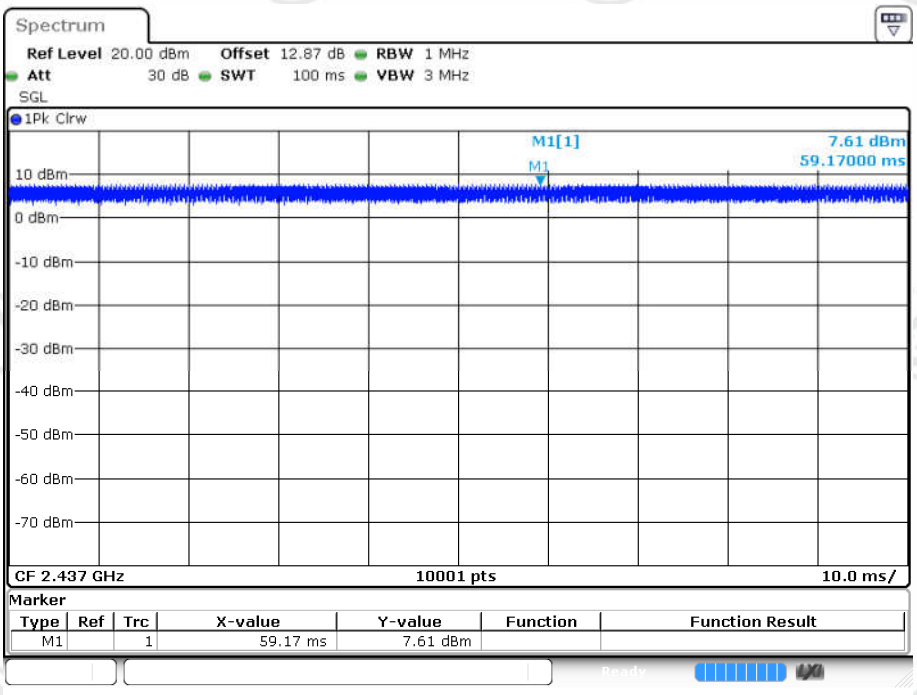
Date: 14.SEP.2024 13:25:33

Duty Cycle NVNT g 2412MHz Ant1



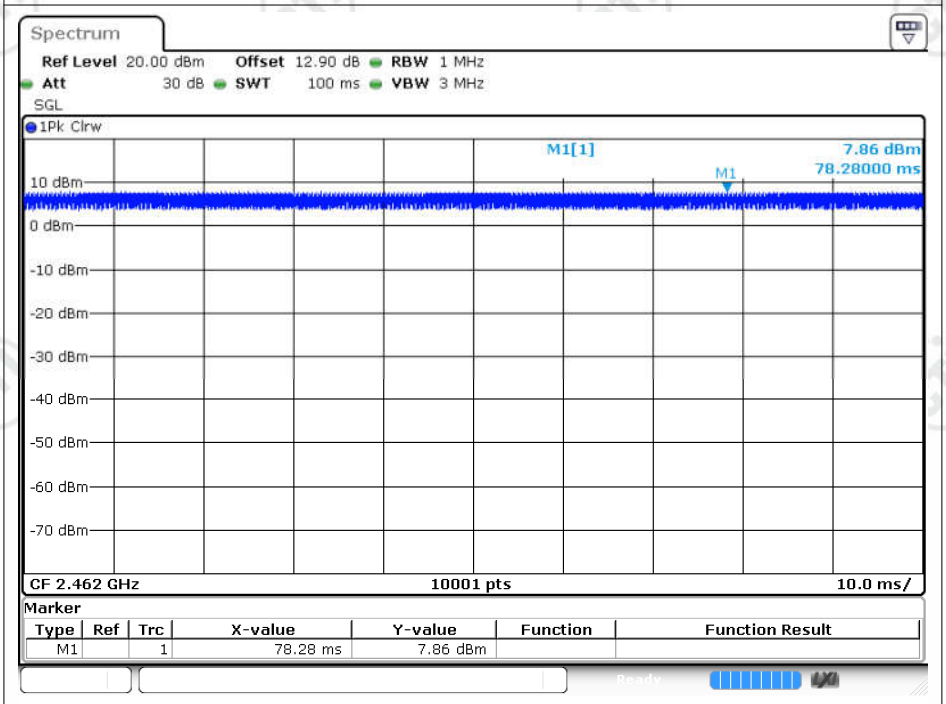
Date: 14.SEP.2024 13:10:38

Duty Cycle NVNT g 2437MHz Ant1



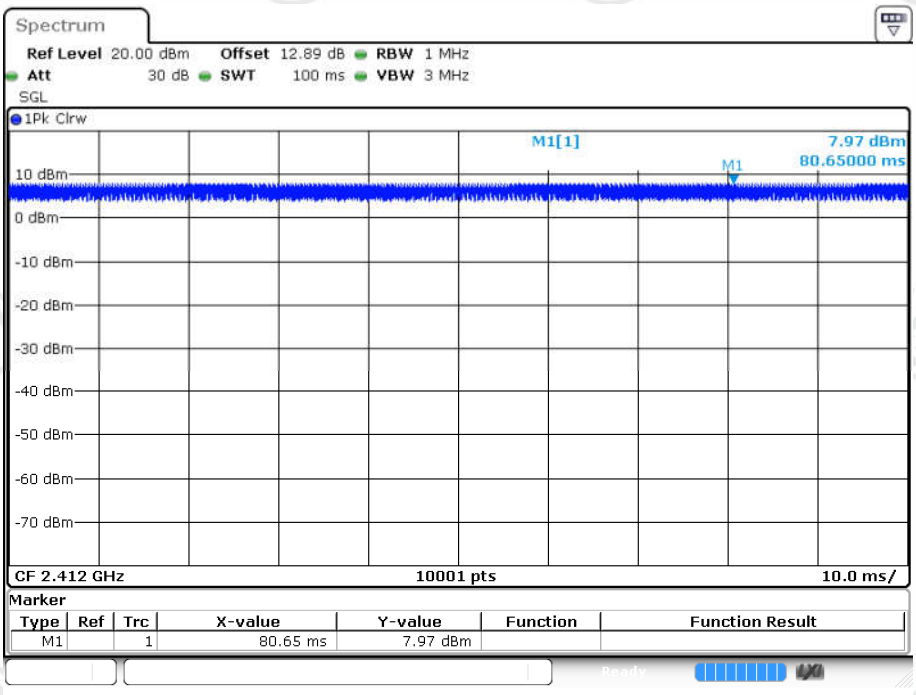
Date: 14.SEP.2024 13:10:55

Duty Cycle NVNT g 2462MHz Ant1



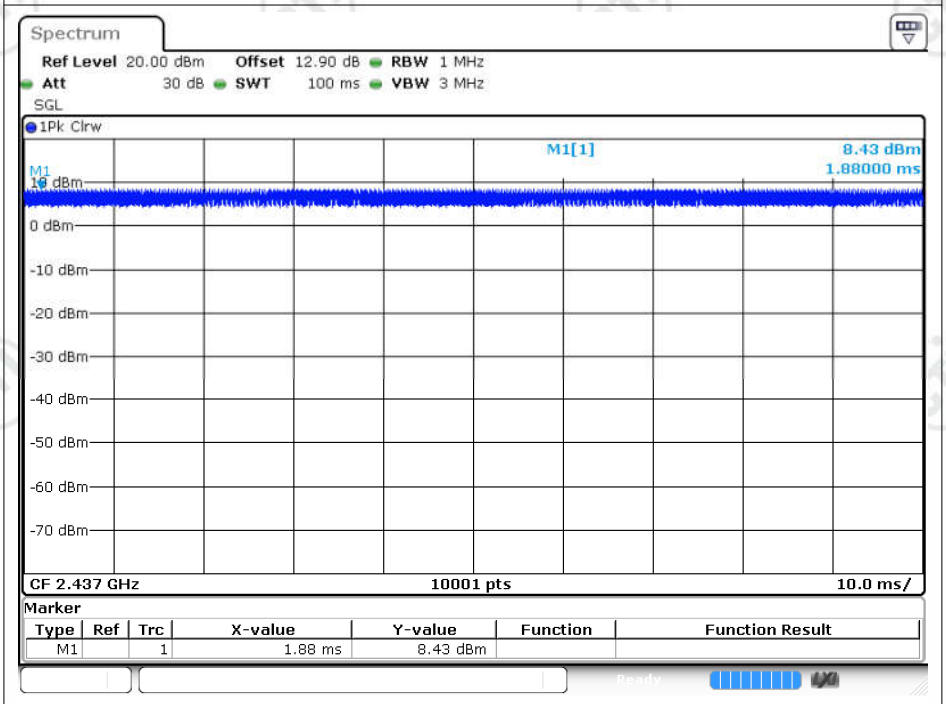
Date: 14.SEP.2024 13:11:13

Duty Cycle NVNT g 2412MHz Ant2



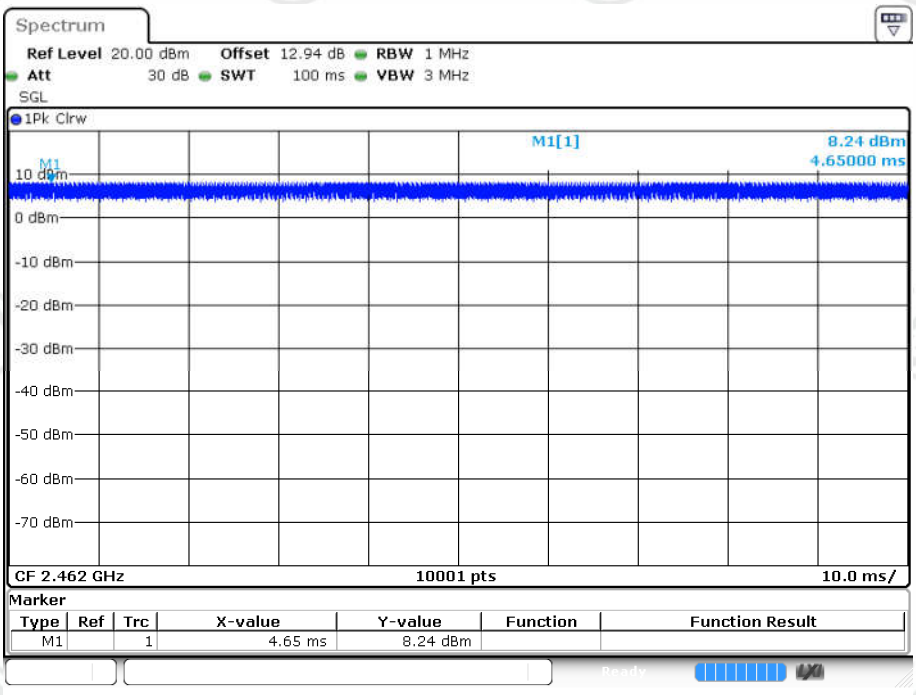
Date: 14.SEP.2024 13:26:54

Duty Cycle NVNT g 2437MHz Ant2



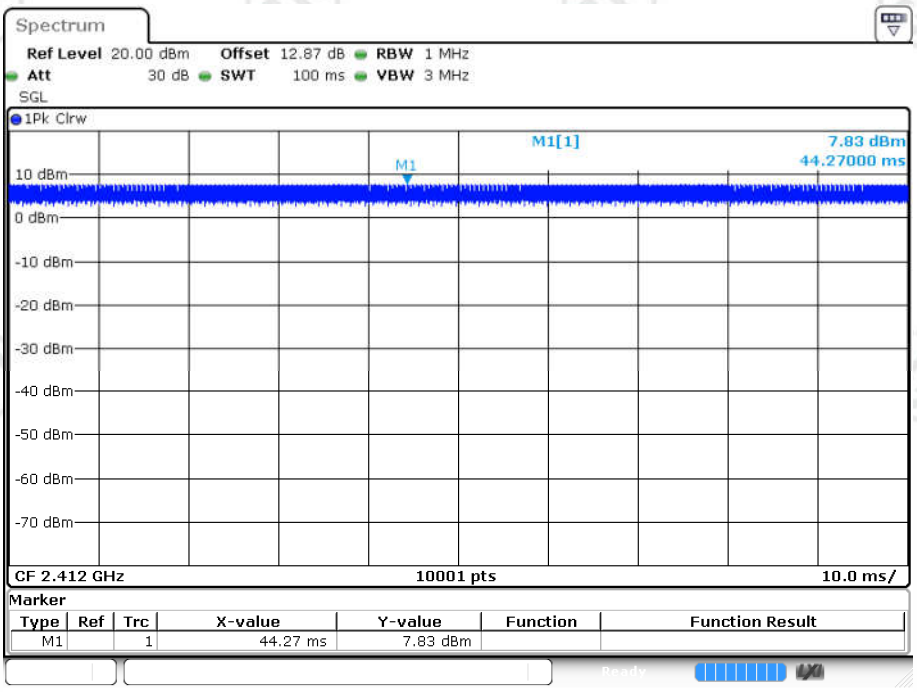
Date: 14.SEP.2024 13:27:19

Duty Cycle NVNT g 2462MHz Ant2



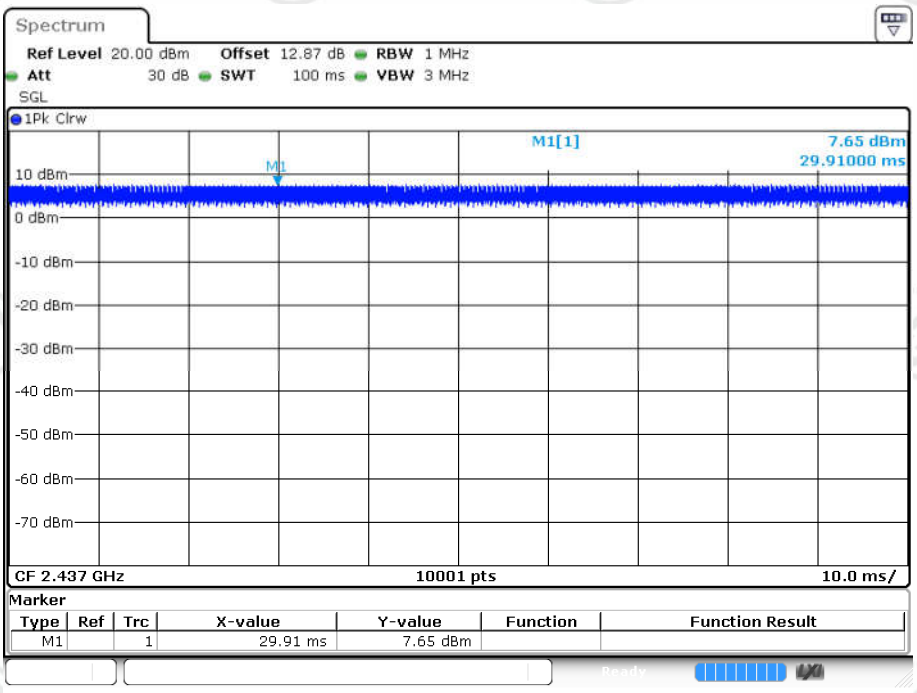
Date: 14.SEP.2024 13:27:38

Duty Cycle NVNT n20 2412MHz Ant1



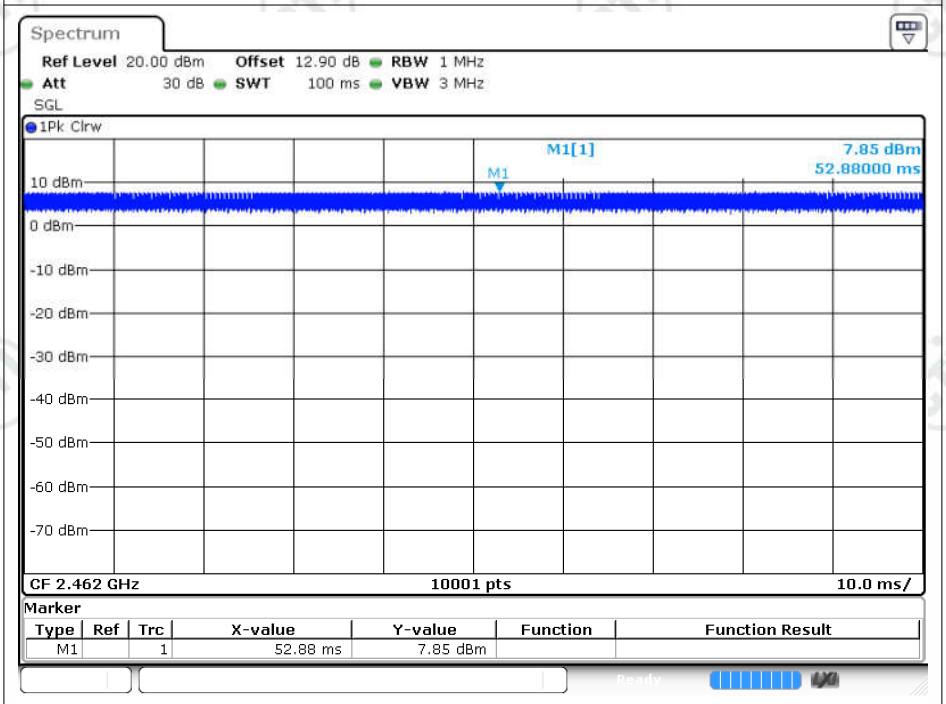
Date: 14.SEP.2024 13:11:44

Duty Cycle NVNT n20 2437MHz Ant1



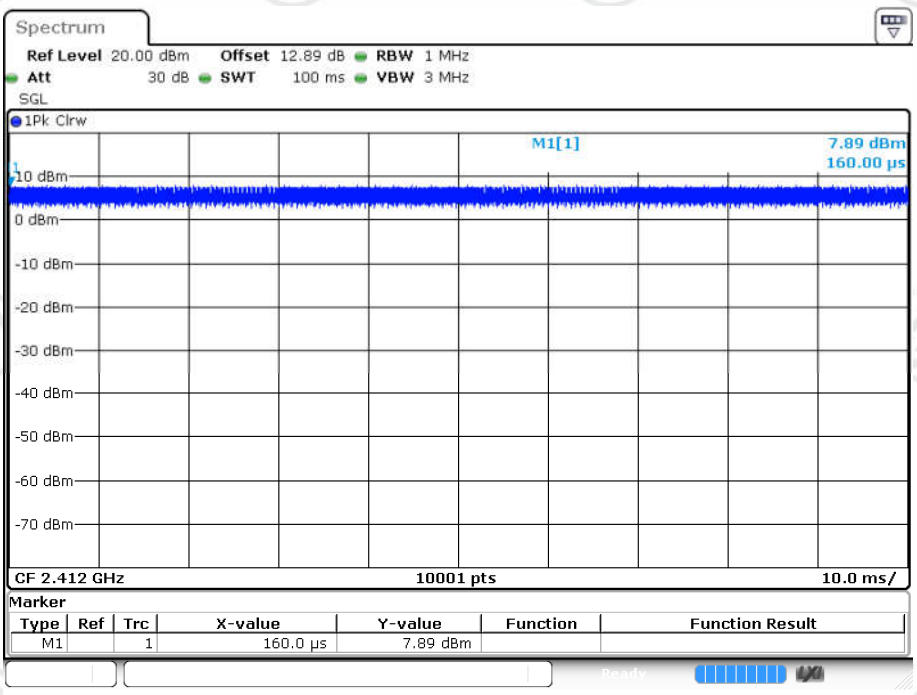
Date: 14.SEP.2024 13:12:23

Duty Cycle NVNT n20 2462MHz Ant1



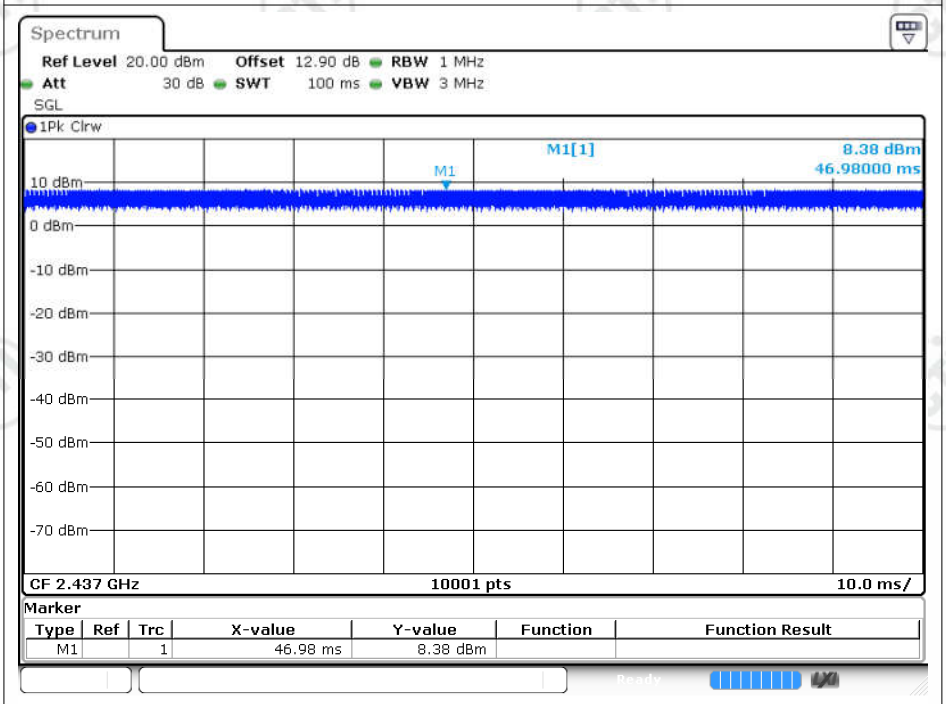
Date: 14.SEP.2024 13:12:52

Duty Cycle NVNT n20 2412MHz Ant2



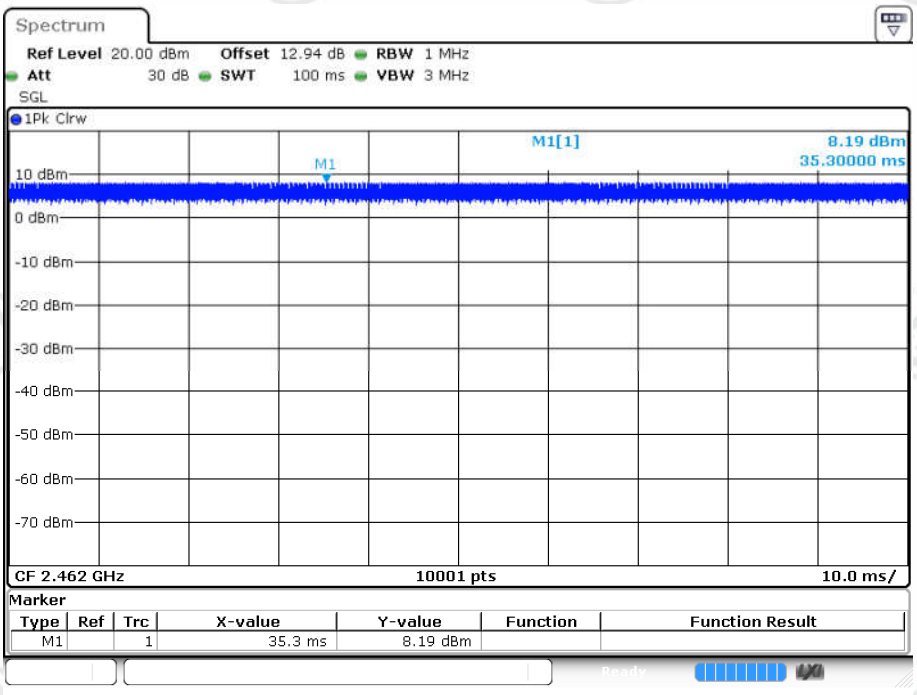
Date: 14.SEP.2024 13:28:10

Duty Cycle NVNT n20 2437MHz Ant2



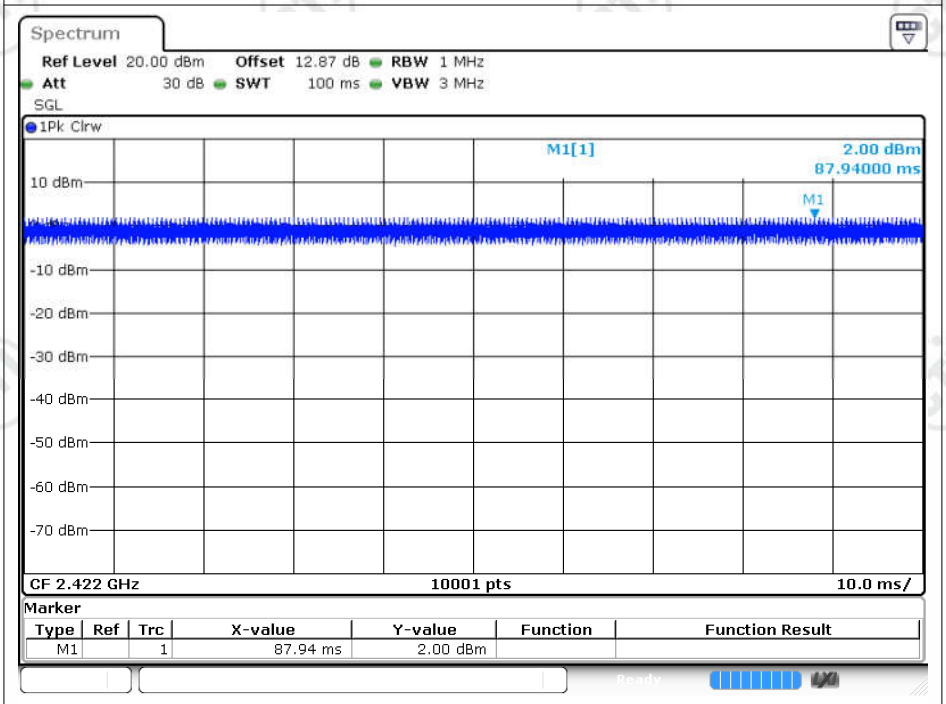
Date: 14.SEP.2024 13:28:30

Duty Cycle NVNT n20 2462MHz Ant2



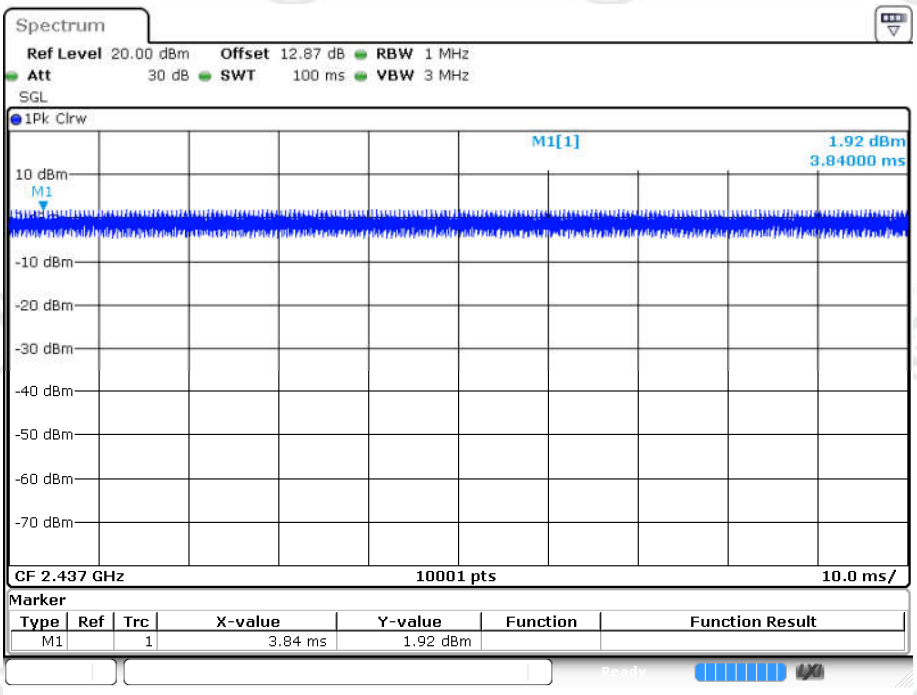
Date: 14.SEP.2024 13:28:59

Duty Cycle NVNT n40 2422MHz Ant1



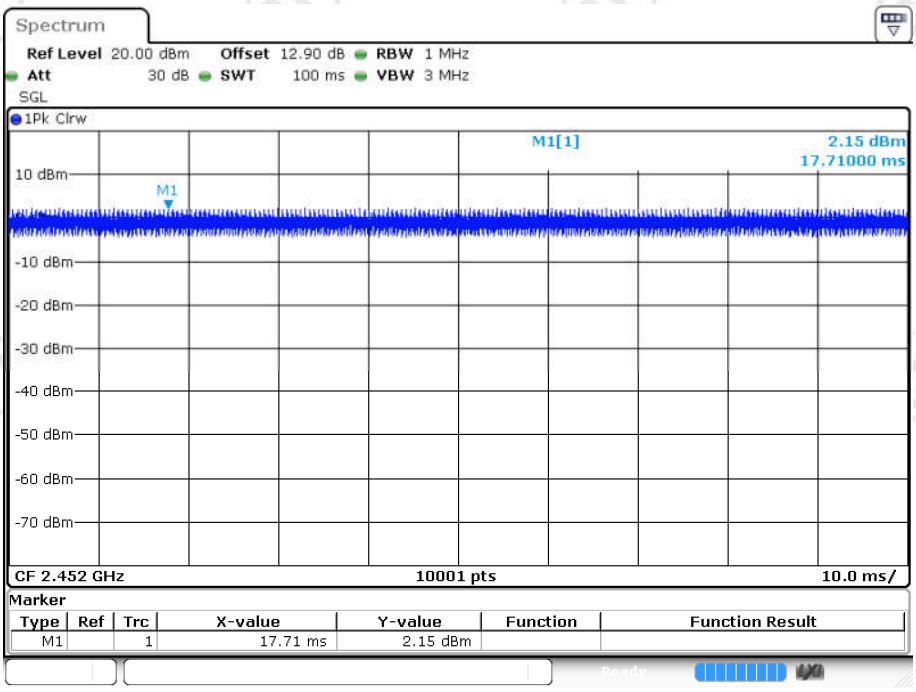
Date: 14.SEP.2024 13:13:18

Duty Cycle NVNT n40 2437MHz Ant1



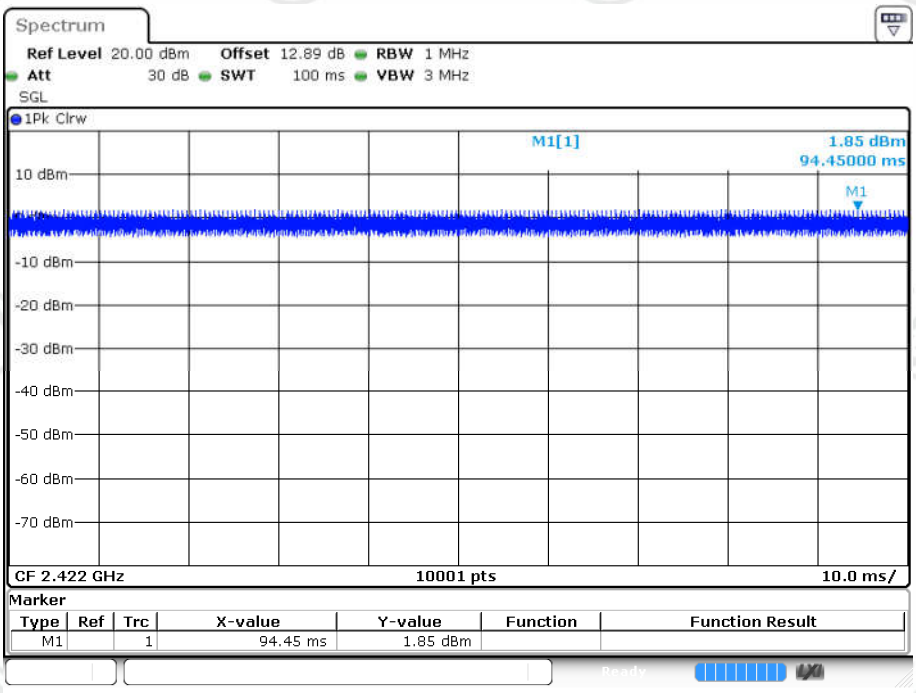
Date: 14.SEP.2024 13:14:13

Duty Cycle NVNT n40 2452MHz Ant1



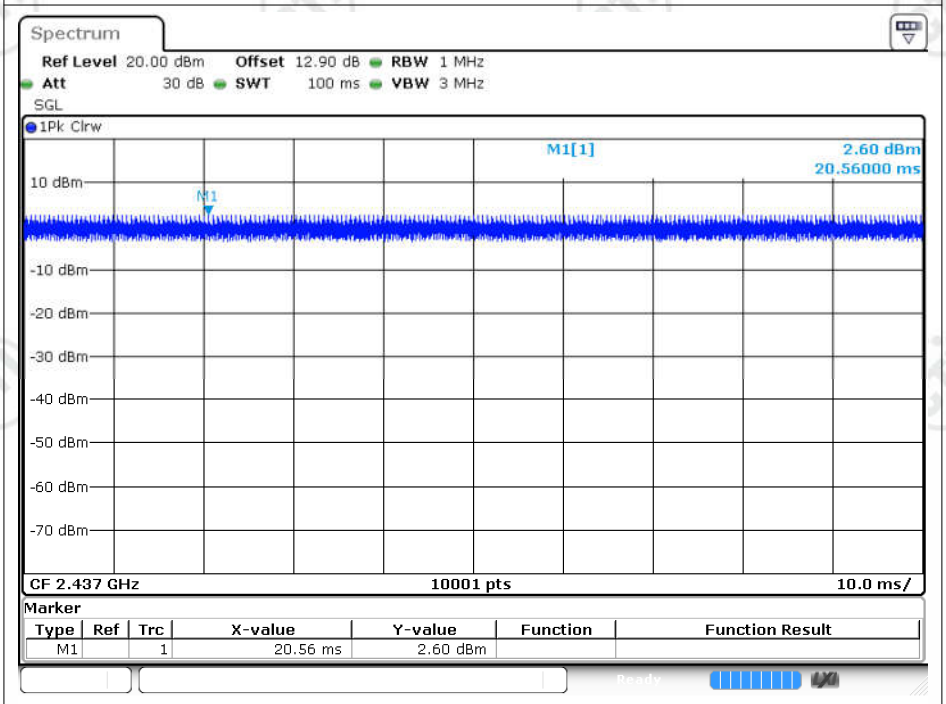
Date: 14.SEP.2024 13:14:34

Duty Cycle NVNT n40 2422MHz Ant2



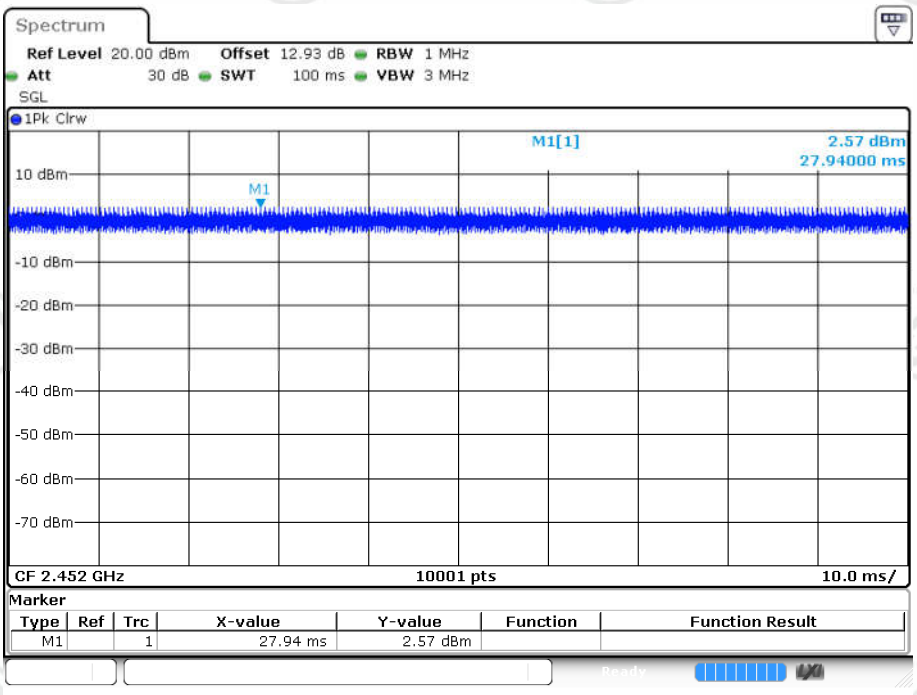
Date: 14.SEP.2024 13:29:30

Duty Cycle NVNT n40 2437MHz Ant2



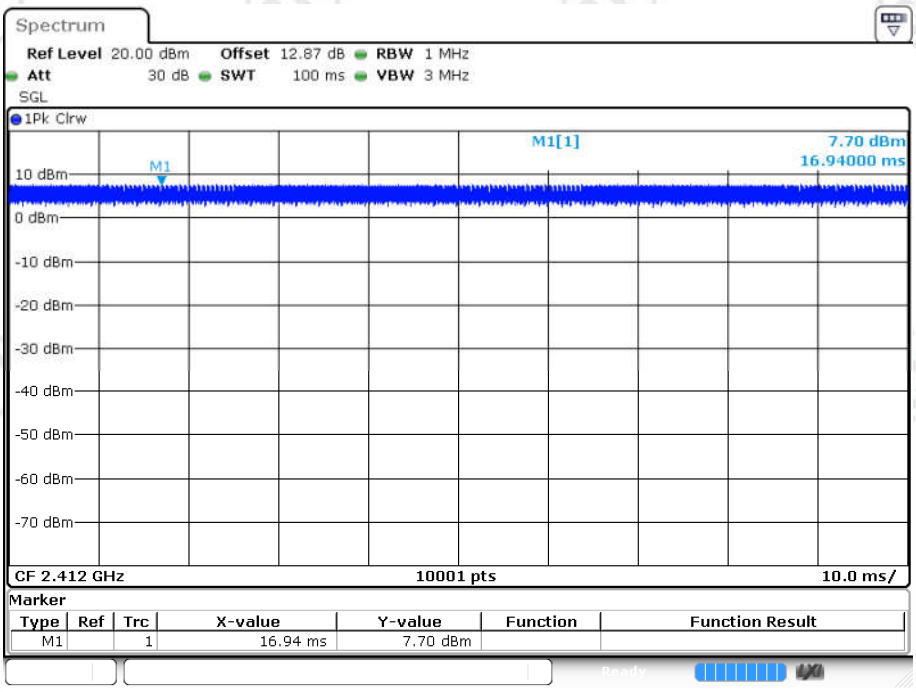
Date: 14.SEP.2024 13:29:47

Duty Cycle NVNT n40 2452MHz Ant2



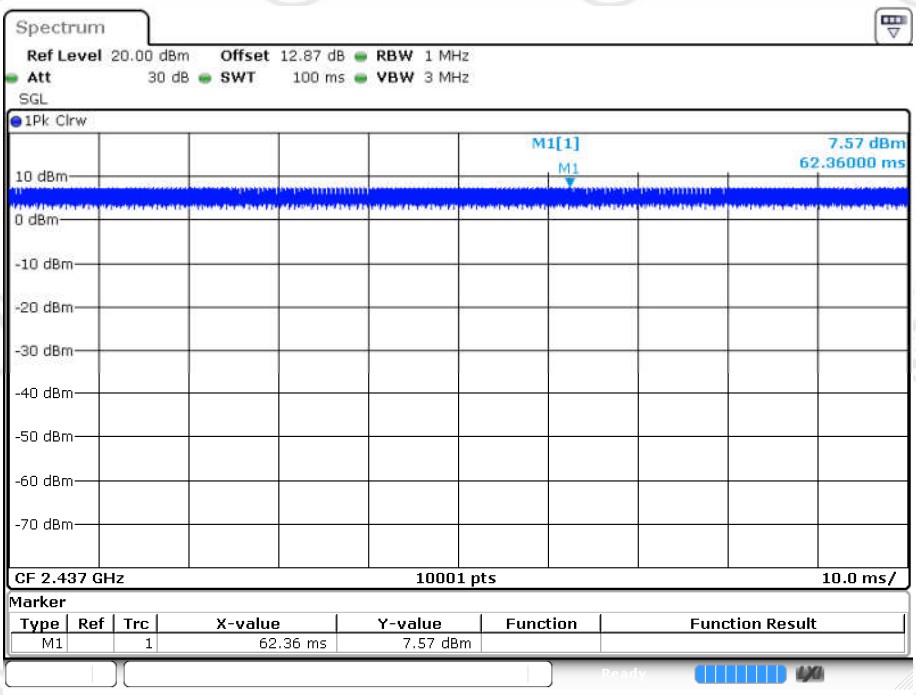
Date: 14.SEP.2024 13:30:10

Duty Cycle NVNT ax20 2412MHz Ant1



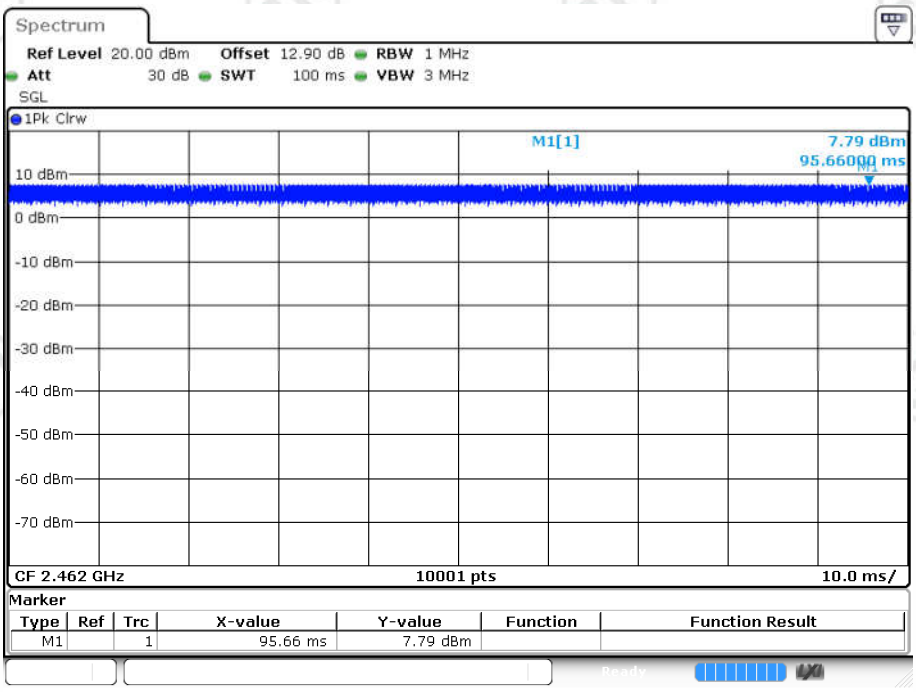
Date: 14.SEP.2024 13:15:06

Duty Cycle NVNT ax20 2437MHz Ant1



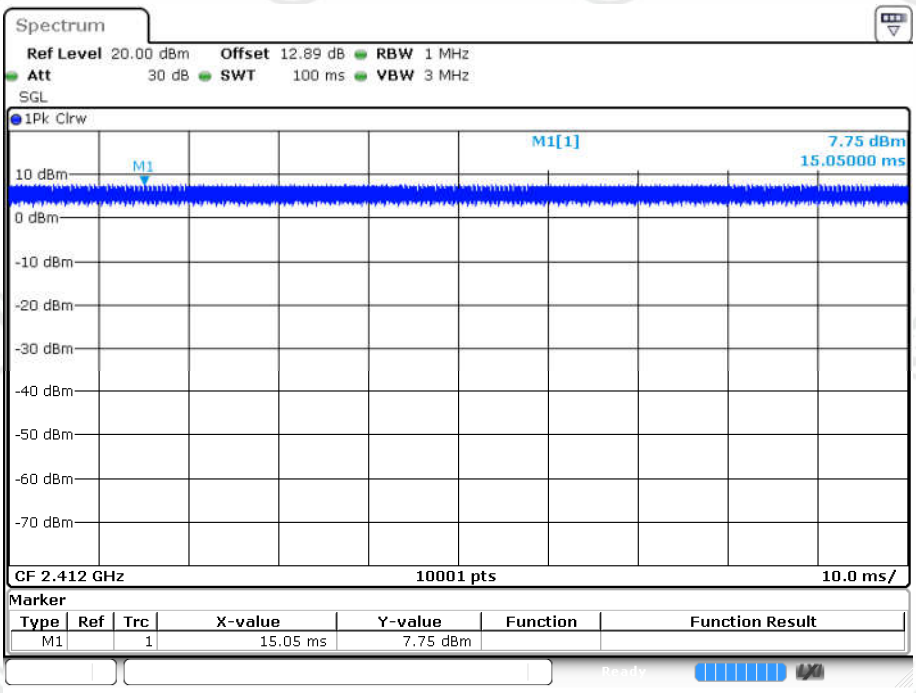
Date: 14.SEP.2024 13:15:26

Duty Cycle NVNT ax20 2462MHz Ant1



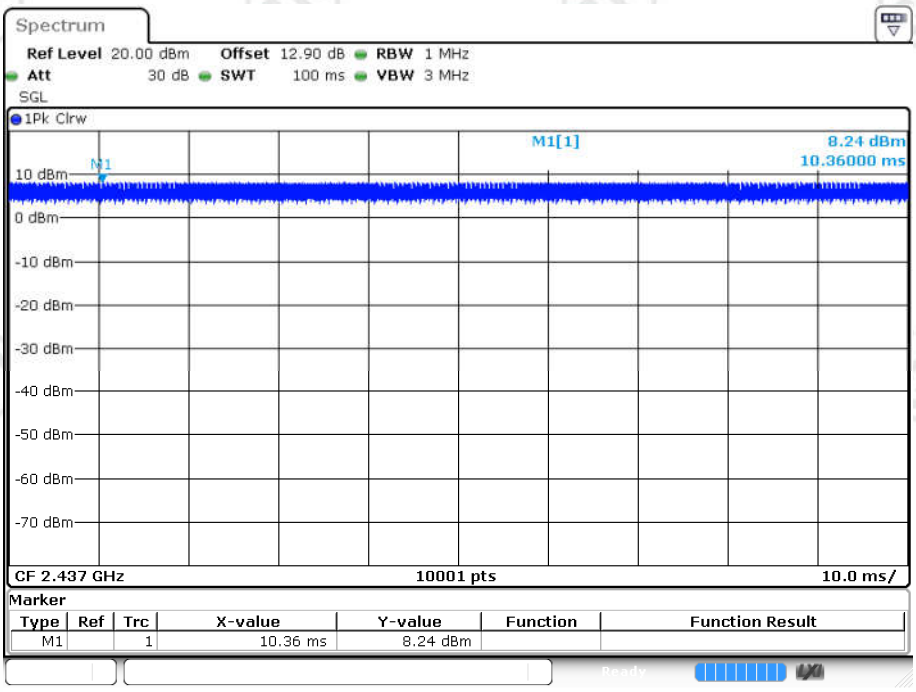
Date: 14.SEP.2024 13:15:52

Duty Cycle NVNT ax20 2412MHz Ant2



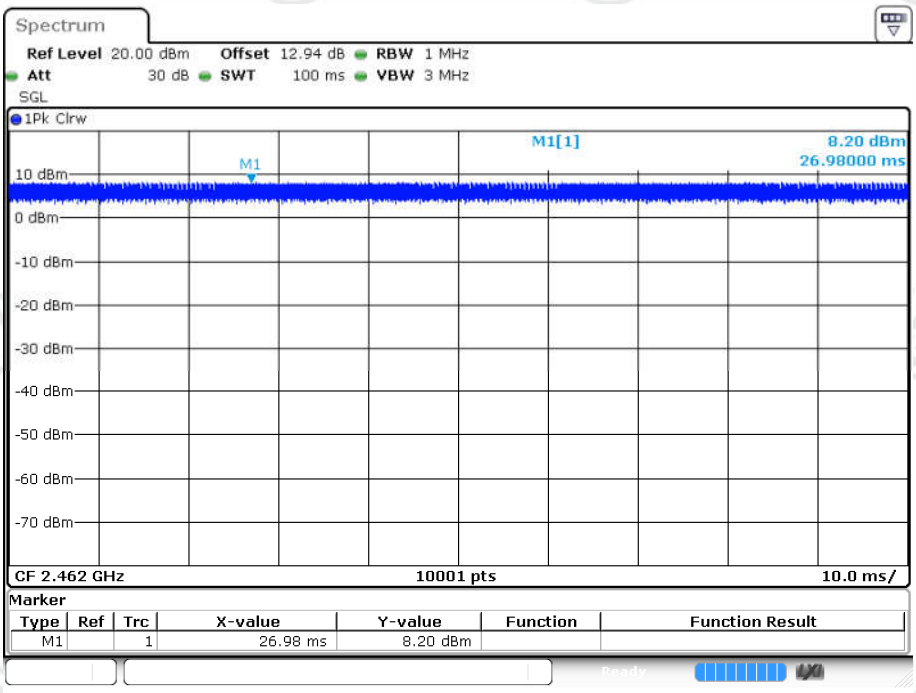
Date: 14.SEP.2024 13:31:10

Duty Cycle NVNT ax20 2437MHz Ant2



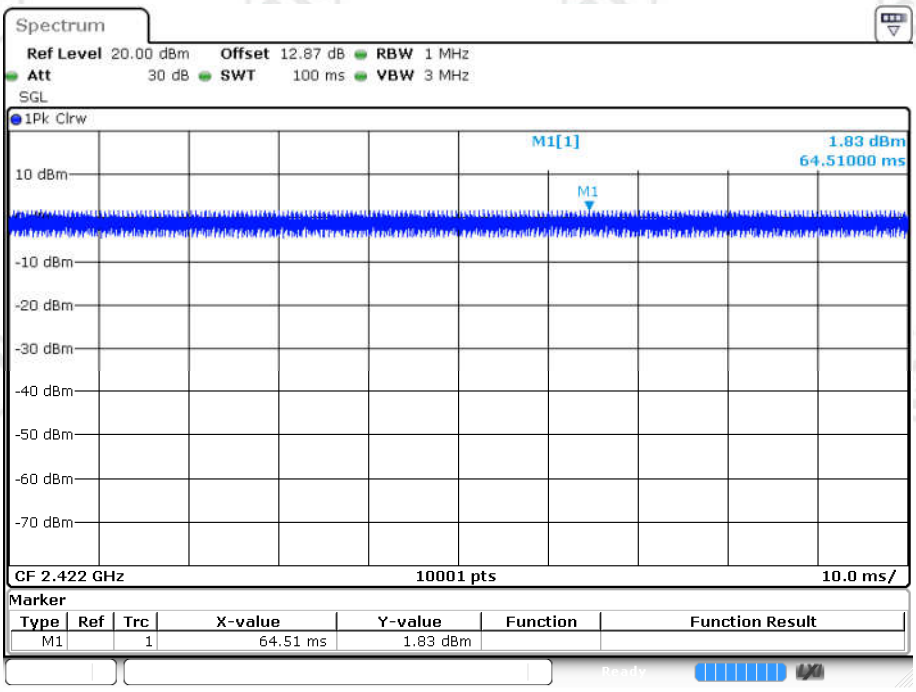
Date: 14.SEP.2024 13:31:40

Duty Cycle NVNT ax20 2462MHz Ant2



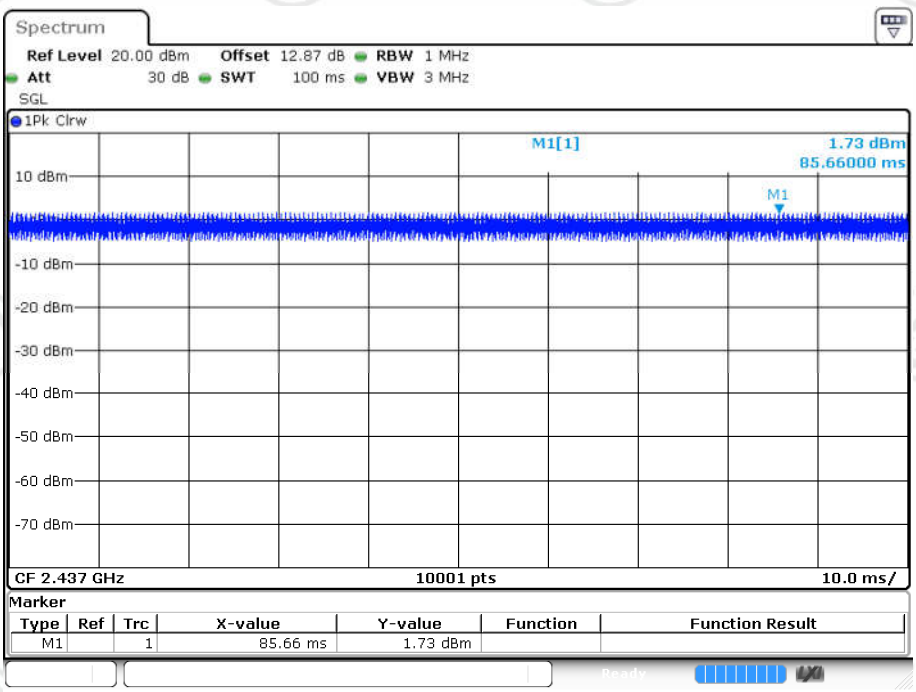
Date: 14.SEP.2024 13:31:59

Duty Cycle NVNT ax40 2422MHz Ant1



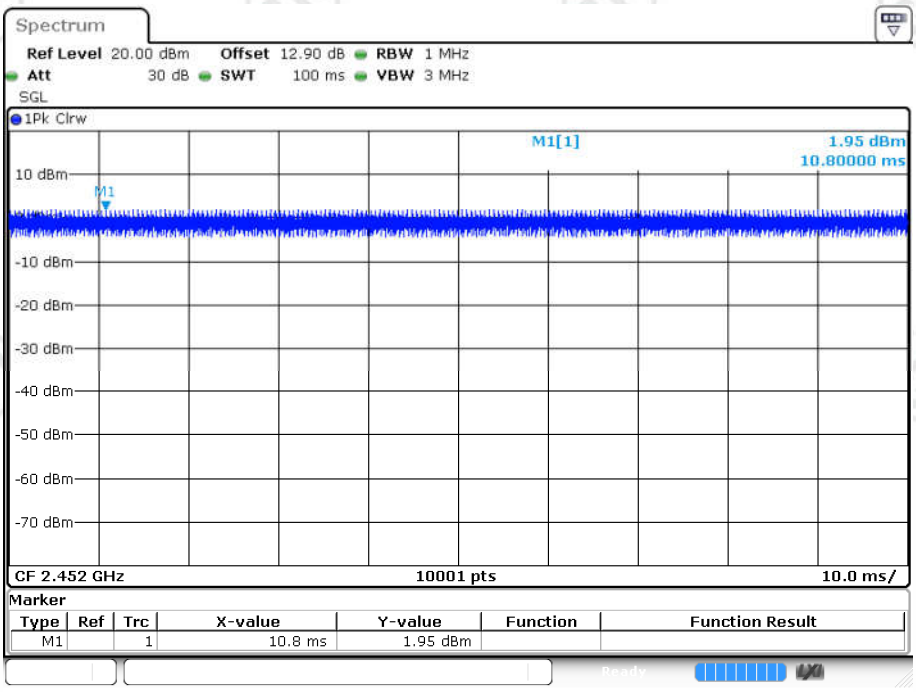
Date: 14.SEP.2024 13:16:16

Duty Cycle NVNT ax40 2437MHz Ant1



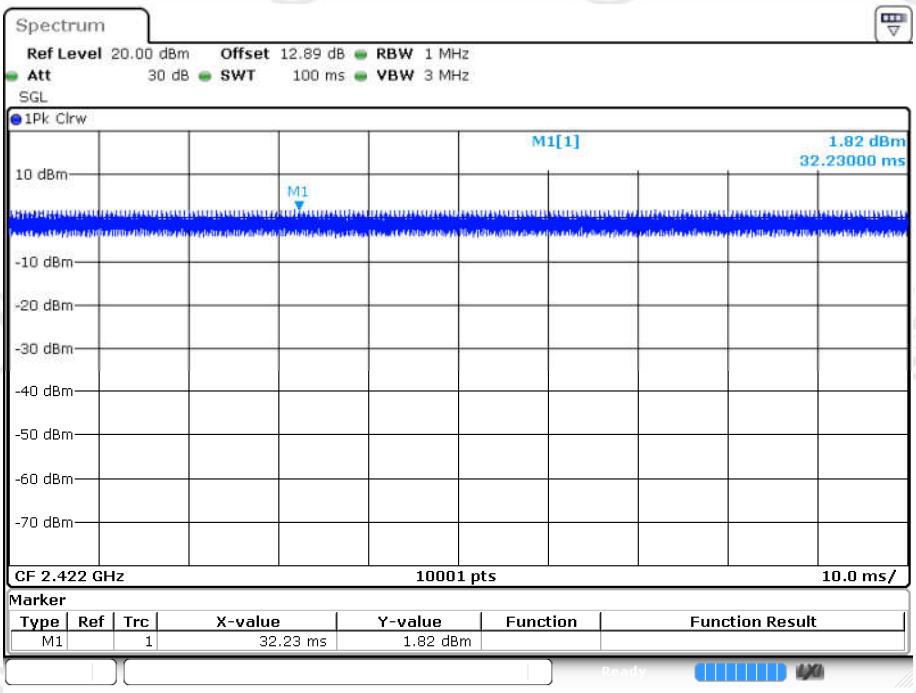
Date: 14.SEP.2024 13:16:57

Duty Cycle NVNT ax40 2452MHz Ant1



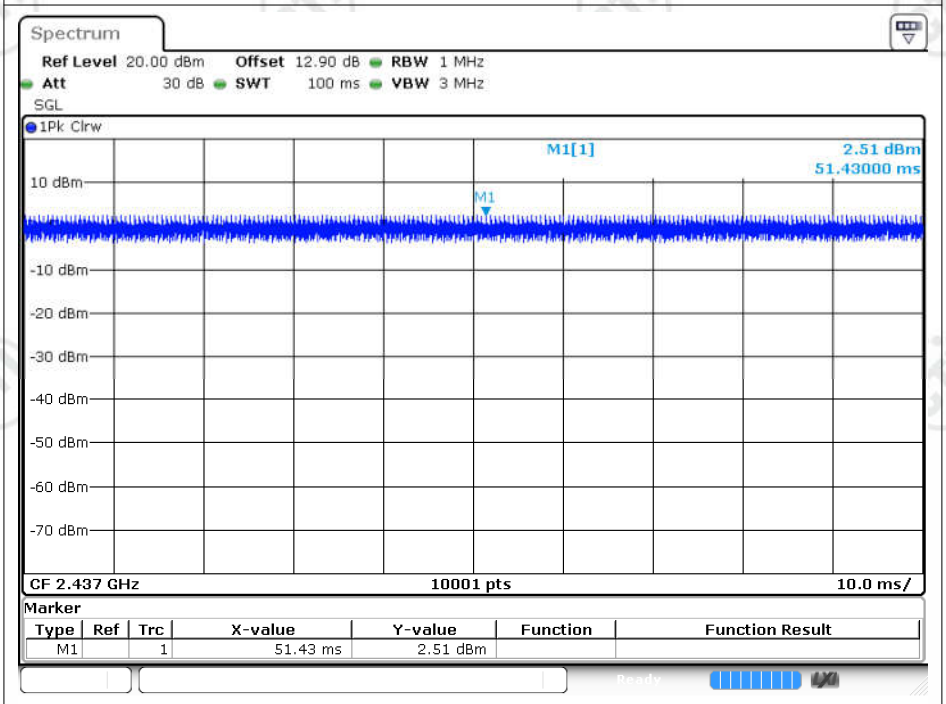
Date: 14.SEP.2024 13:17:22

Duty Cycle NVNT ax40 2422MHz Ant2



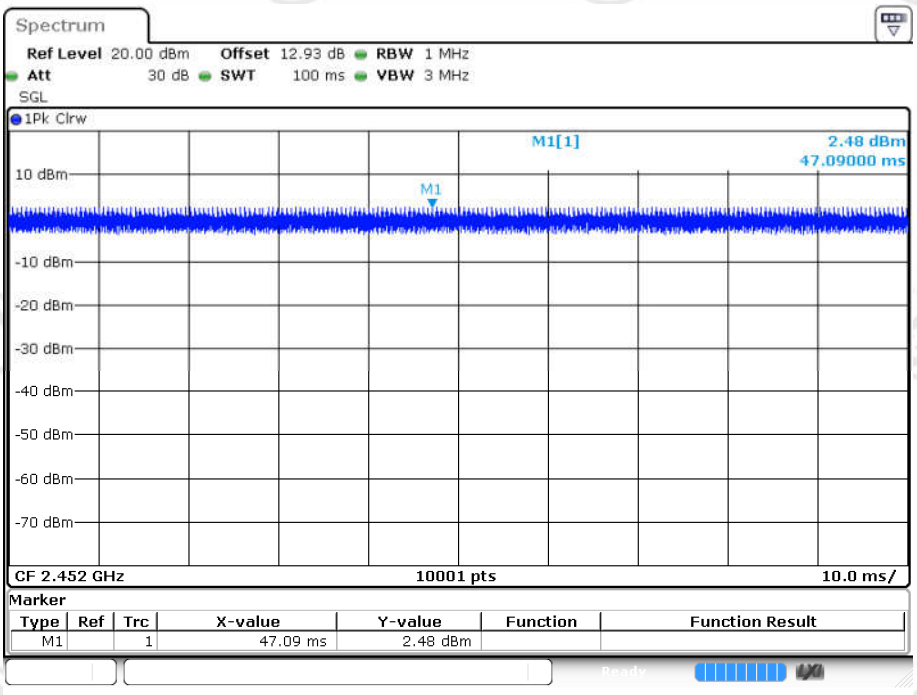
Date: 14.SEP.2024 13:32:31

Duty Cycle NVNT ax40 2437MHz Ant2



Date: 14.SEP.2024 13:33:00

Duty Cycle NVNT ax40 2452MHz Ant2



Date: 14.SEP.2024 13:33:26

Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.44	30	Pass
NVNT	b	2437	Ant1	15.18	30	Pass
NVNT	b	2462	Ant1	**15.85**	30	Pass
NVNT	b	2412	Ant2	15.10	30	Pass
NVNT	b	2437	Ant2	15.33	30	Pass
NVNT	b	2462	Ant2	15.34	30	Pass
NVNT	g	2412	Ant1	14.76	30	Pass
NVNT	g	2437	Ant1	14.64	30	Pass
NVNT	g	2462	Ant1	14.23	30	Pass
NVNT	g	2412	Ant2	14.38	30	Pass
NVNT	g	2437	Ant2	14.49	30	Pass
NVNT	g	2462	Ant2	14.55	30	Pass
NVNT	n20	2412	Ant1	14.71	30	Pass
NVNT	n20	2437	Ant1	14.54	30	Pass
NVNT	n20	2462	Ant1	14.24	30	Pass
NVNT	n20	2412	Ant2	14.41	30	Pass
NVNT	n20	2437	Ant2	14.54	30	Pass
NVNT	n20	2462	Ant2	14.53	30	Pass
NVNT	n20	2412	Ant1	12.07	30	Pass
NVNT	n20	2412	Ant2	11.61	30	Pass
NVNT	n20	2412	Sum	14.86	30	Pass
NVNT	n20	2437	Ant1	11.84	30	Pass
NVNT	n20	2437	Ant2	11.75	30	Pass
NVNT	n20	2437	Sum	14.81	30	Pass
NVNT	n20	2462	Ant1	11.39	30	Pass
NVNT	n20	2462	Ant2	11.86	30	Pass
NVNT	n20	2462	Sum	14.64	30	Pass
NVNT	n40	2422	Ant1	14.61	30	Pass
NVNT	n40	2437	Ant1	14.57	30	Pass
NVNT	n40	2452	Ant1	14.26	30	Pass
NVNT	n40	2422	Ant2	14.29	30	Pass
NVNT	n40	2437	Ant2	14.3	30	Pass
NVNT	n40	2452	Ant2	14.41	30	Pass
NVNT	n40	2422	Ant1	11.84	30	Pass
NVNT	n40	2422	Ant2	11.67	30	Pass
NVNT	n40	2422	Sum	14.77	30	Pass
NVNT	n40	2437	Ant1	11.40	30	Pass

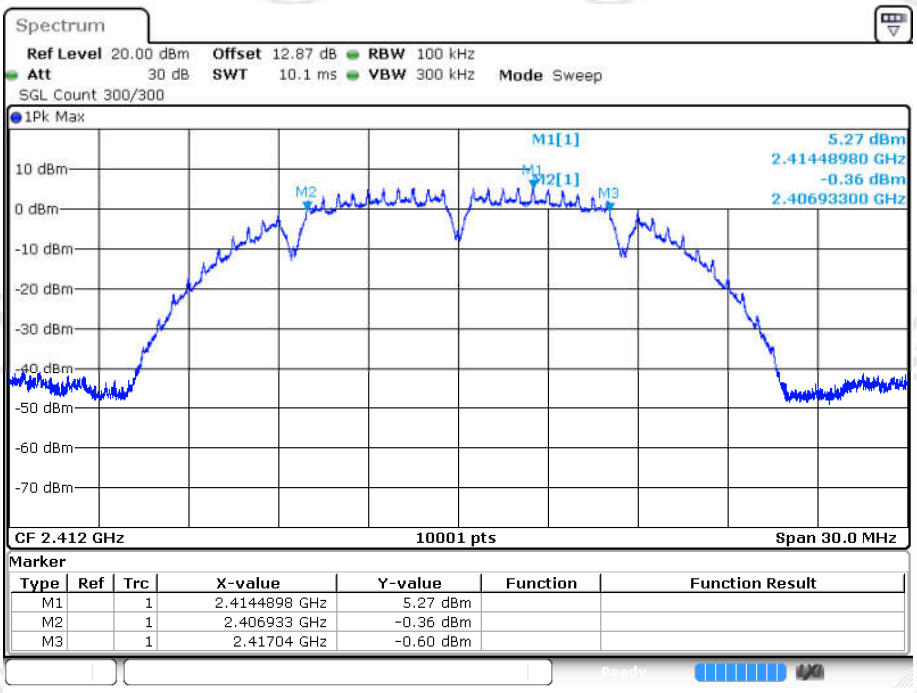
NVNT	n40	2437	Ant2	10.79	30	Pass
NVNT	n40	2437	Sum	14.12	30	Pass
NVNT	n40	2452	Ant1	11.09	30	Pass
NVNT	n40	2452	Ant2	11.05	30	Pass
NVNT	n40	2452	Sum	14.08	30	Pass
NVNT	ax20	2412	Ant1	13.90	30	Pass
NVNT	ax20	2437	Ant1	13.81	30	Pass
NVNT	ax20	2462	Ant1	13.53	30	Pass
NVNT	ax20	2412	Ant2	13.58	30	Pass
NVNT	ax20	2437	Ant2	13.68	30	Pass
NVNT	ax20	2462	Ant2	13.73	30	Pass
NVNT	ax20	2412	Ant1	10.62	30	Pass
NVNT	ax20	2412	Ant2	10.10	30	Pass
NVNT	ax20	2412	Sum	13.38	30	Pass
NVNT	ax20	2437	Ant1	10.72	30	Pass
NVNT	ax20	2437	Ant2	10.33	30	Pass
NVNT	ax20	2437	Sum	13.54	30	Pass
NVNT	ax20	2462	Ant1	10.48	30	Pass
NVNT	ax20	2462	Ant2	10.45	30	Pass
NVNT	ax20	2462	Sum	13.48	30	Pass
NVNT	ax40	2422	Ant1	13.91	30	Pass
NVNT	ax40	2437	Ant1	13.78	30	Pass
NVNT	ax40	2452	Ant1	13.45	30	Pass
NVNT	ax40	2422	Ant2	13.48	30	Pass
NVNT	ax40	2437	Ant2	13.56	30	Pass
NVNT	ax40	2452	Ant2	13.75	30	Pass
NVNT	ax40	2422	Ant1	10.39	30	Pass
NVNT	ax40	2422	Ant2	9.79	30	Pass
NVNT	ax40	2422	Sum	13.11	30	Pass
NVNT	ax40	2437	Ant1	11.20	30	Pass
NVNT	ax40	2437	Ant2	10.55	30	Pass
NVNT	ax40	2437	Sum	13.90	30	Pass
NVNT	ax40	2452	Ant1	11.01	30	Pass
NVNT	ax40	2452	Ant2	10.70	30	Pass
NVNT	ax40	2452	Sum	13.87	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.107	0.5	Pass
NVNT	b	2437	Ant1	10.098	0.5	Pass
NVNT	b	2462	Ant1	10.104	0.5	Pass
NVNT	b	2412	Ant2	11.049	0.5	Pass
NVNT	b	2437	Ant2	12.018	0.5	Pass
NVNT	b	2462	Ant2	10.098	0.5	Pass
NVNT	g	2412	Ant1	16.308	0.5	Pass
NVNT	g	2437	Ant1	16.305	0.5	Pass
NVNT	g	2462	Ant1	16.308	0.5	Pass
NVNT	g	2412	Ant2	16.293	0.5	Pass
NVNT	g	2437	Ant2	16.293	0.5	Pass
NVNT	g	2462	Ant2	16.305	0.5	Pass
NVNT	n20	2412	Ant1	17.508	0.5	Pass
NVNT	n20	2437	Ant1	17.163	0.5	Pass
NVNT	n20	2462	Ant1	17.511	0.5	Pass
NVNT	n20	2412	Ant2	17.544	0.5	Pass
NVNT	n20	2437	Ant2	17.148	0.5	Pass
NVNT	n20	2462	Ant2	17.154	0.5	Pass
NVNT	n40	2422	Ant1	35.91	0.5	Pass
NVNT	n40	2437	Ant1	36.3	0.5	Pass
NVNT	n40	2452	Ant1	35.898	0.5	Pass
NVNT	n40	2422	Ant2	36.312	0.5	Pass
NVNT	n40	2437	Ant2	36.3	0.5	Pass
NVNT	n40	2452	Ant2	35.916	0.5	Pass
NVNT	ax20	2412	Ant1	18.735	0.5	Pass
NVNT	ax20	2437	Ant1	18.72	0.5	Pass
NVNT	ax20	2462	Ant1	18.672	0.5	Pass
NVNT	ax20	2412	Ant2	18.939	0.5	Pass
NVNT	ax20	2437	Ant2	18.756	0.5	Pass
NVNT	ax20	2462	Ant2	18.837	0.5	Pass
NVNT	ax40	2422	Ant1	37.872	0.5	Pass
NVNT	ax40	2437	Ant1	37.92	0.5	Pass
NVNT	ax40	2452	Ant1	37.992	0.5	Pass
NVNT	ax40	2422	Ant2	37.962	0.5	Pass
NVNT	ax40	2437	Ant2	37.878	0.5	Pass
NVNT	ax40	2452	Ant2	37.974	0.5	Pass

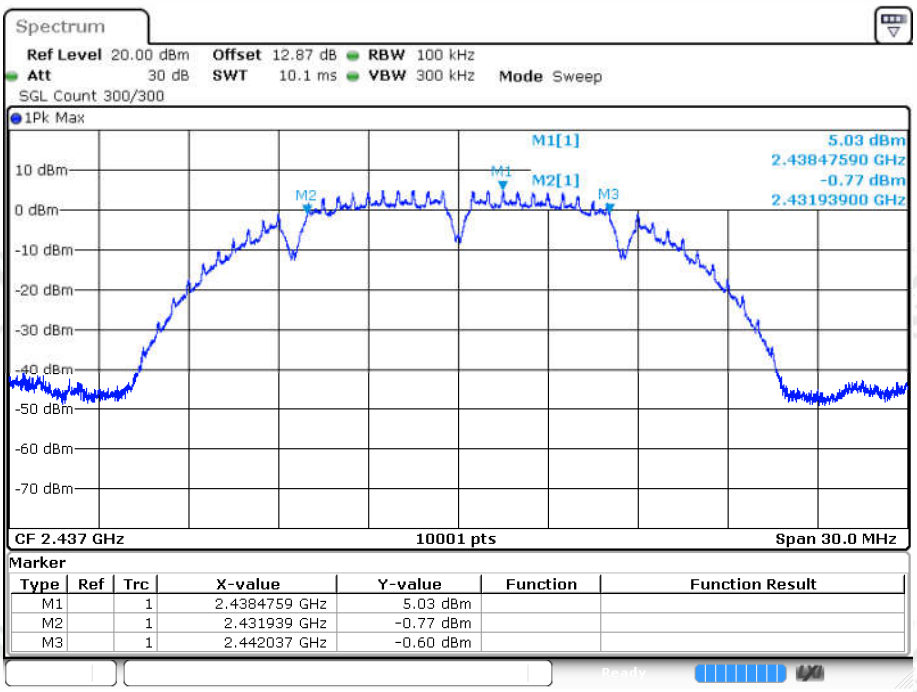
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



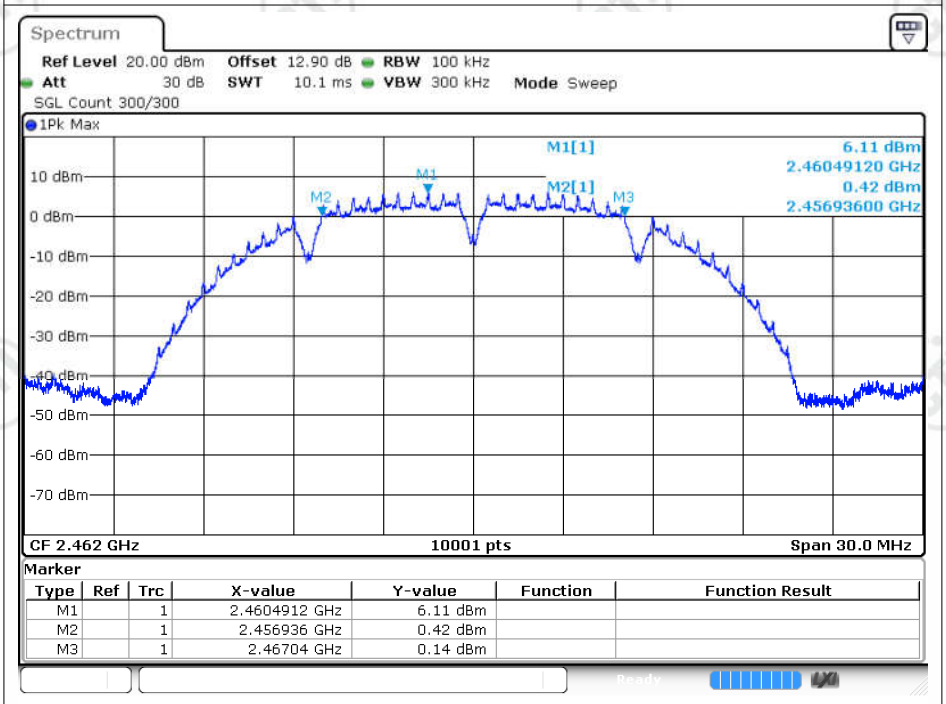
Date: 13.SEP.2024 00:43:06

-6dB Bandwidth NVNT b 2437MHz Ant1



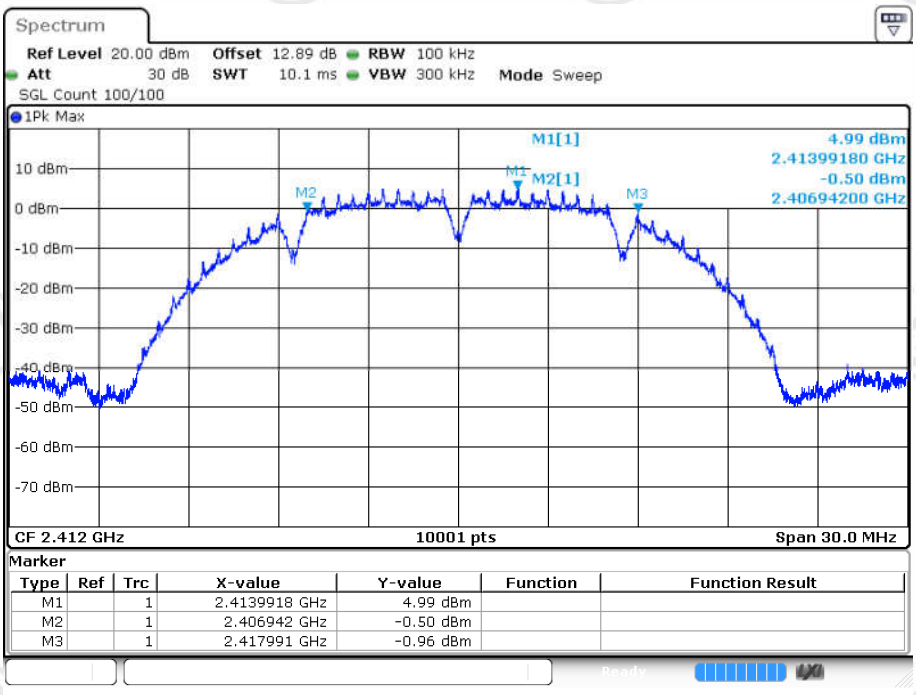
Date: 13.SEP.2024 00:45:33

-6dB Bandwidth NVNT b 2462MHz Ant1



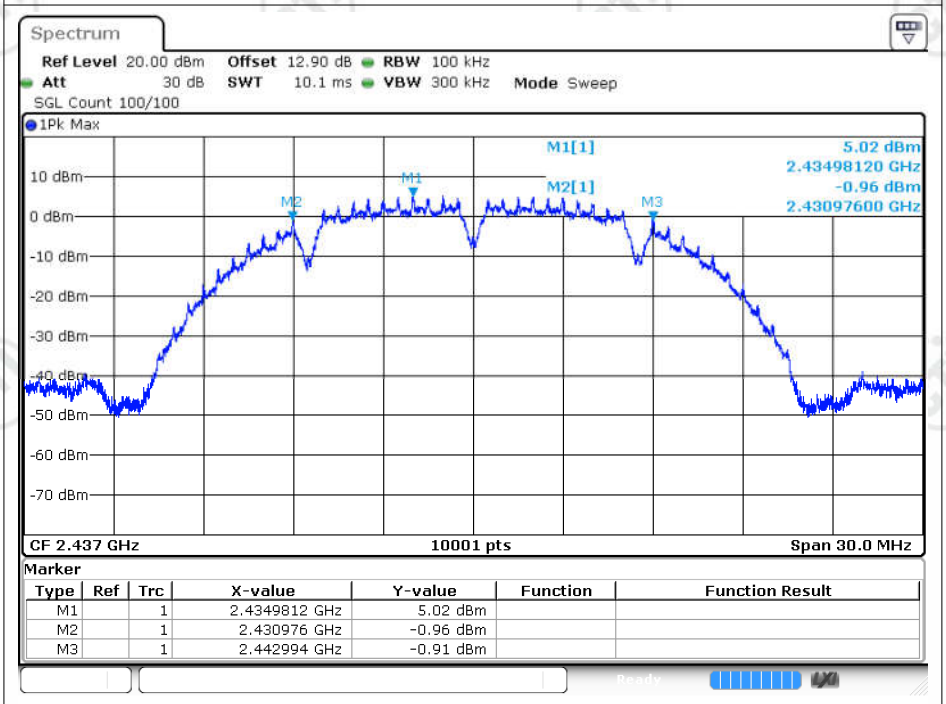
Date: 13.SEP.2024 00:48:39

-6dB Bandwidth NVNT b 2412MHz Ant2



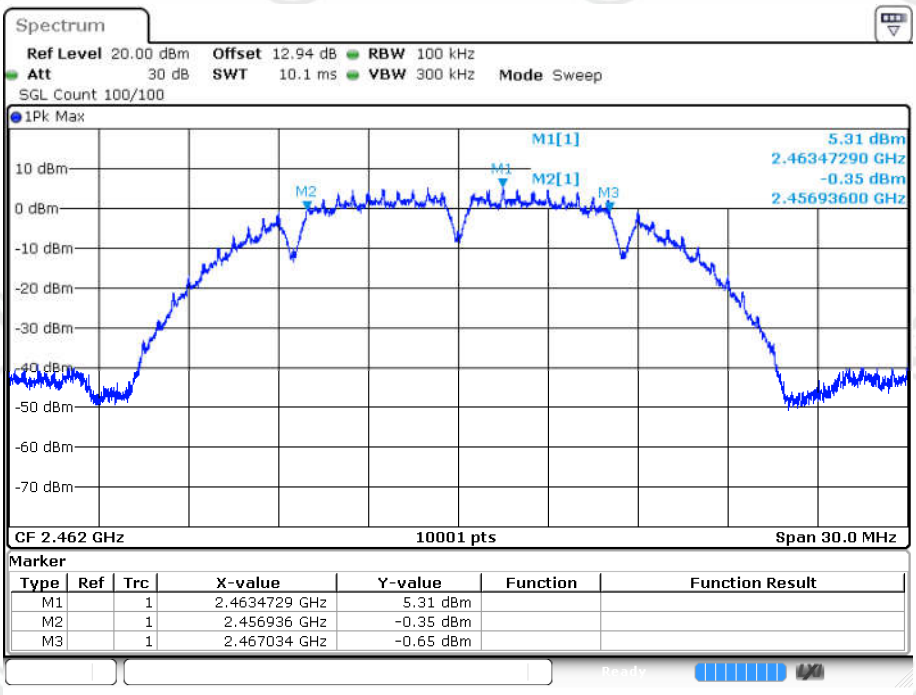
Date: 13.SEP.2024 05:17:31

-6dB Bandwidth NVNT b 2437MHz Ant2



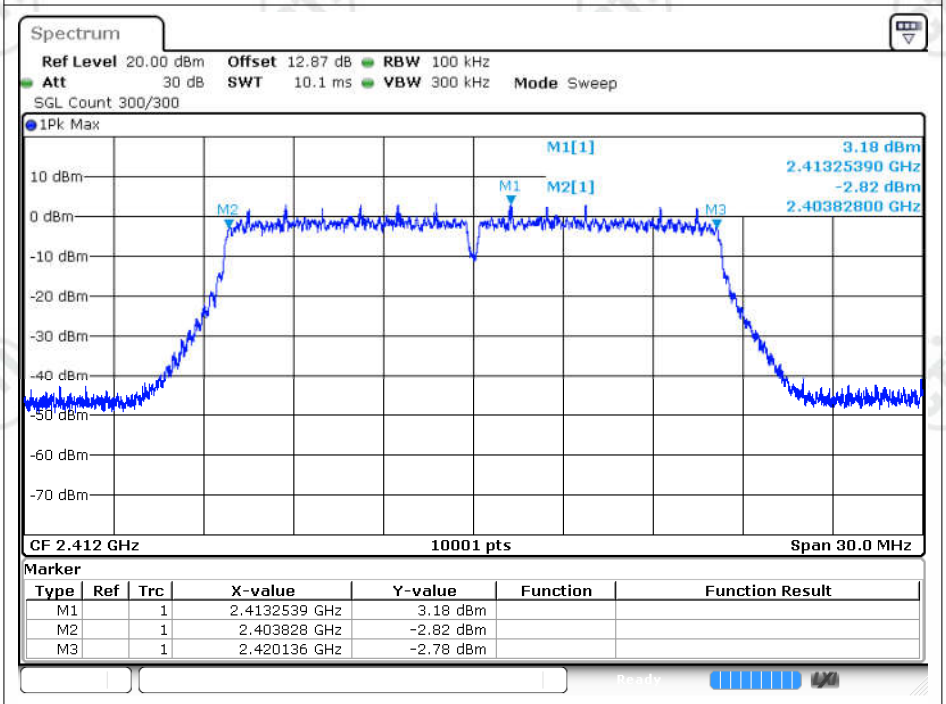
Date: 13.SEP.2024 05:19:10

-6dB Bandwidth NVNT b 2462MHz Ant2



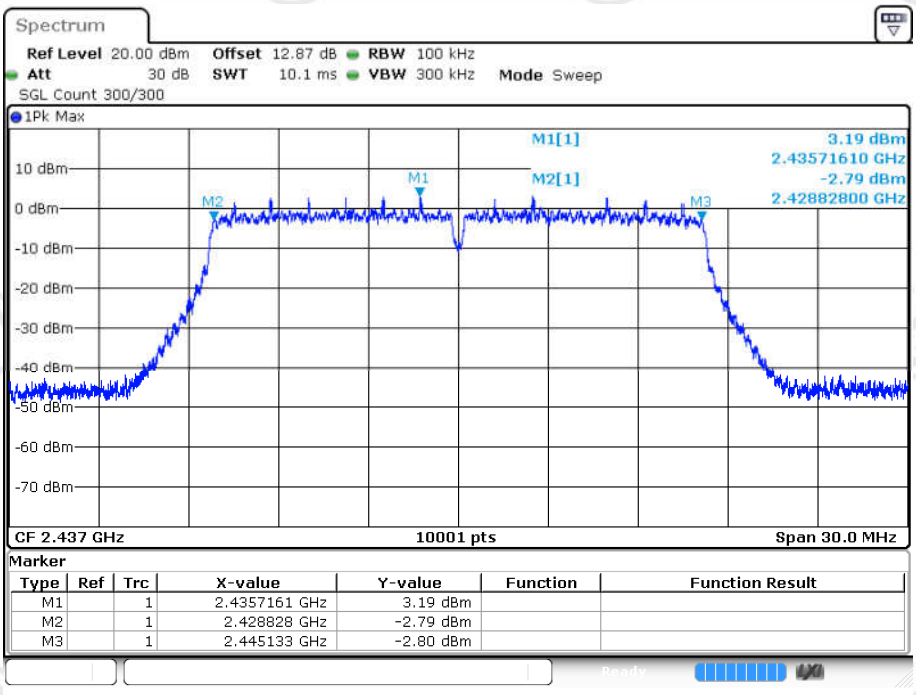
Date: 13.SEP.2024 05:21:05

-6dB Bandwidth NVNT g 2412MHz Ant1



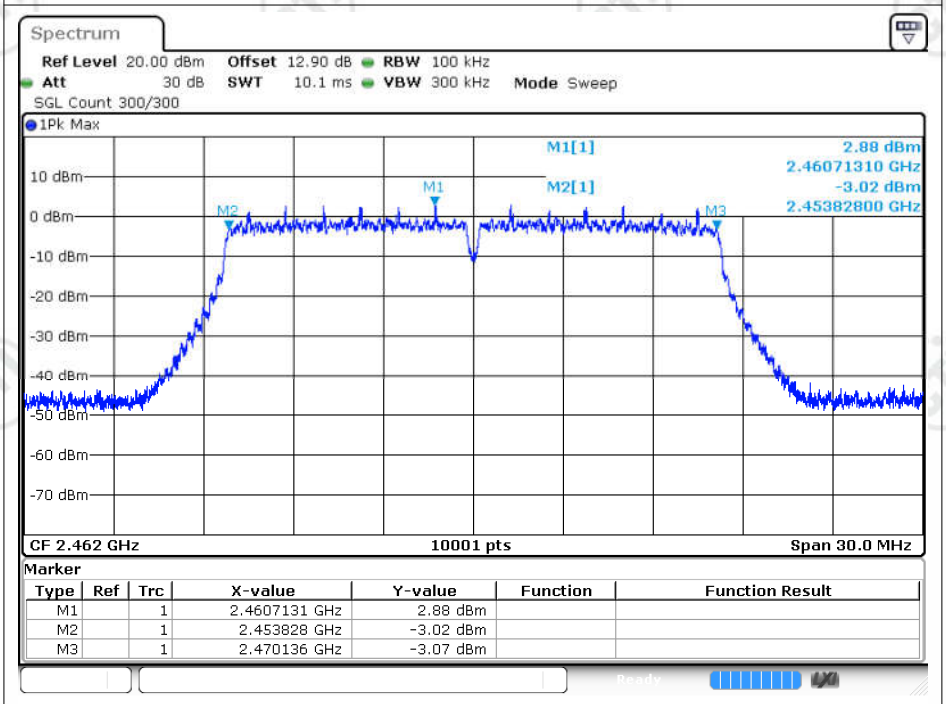
Date: 13.SEP.2024 00:51:55

-6dB Bandwidth NVNT g 2437MHz Ant1



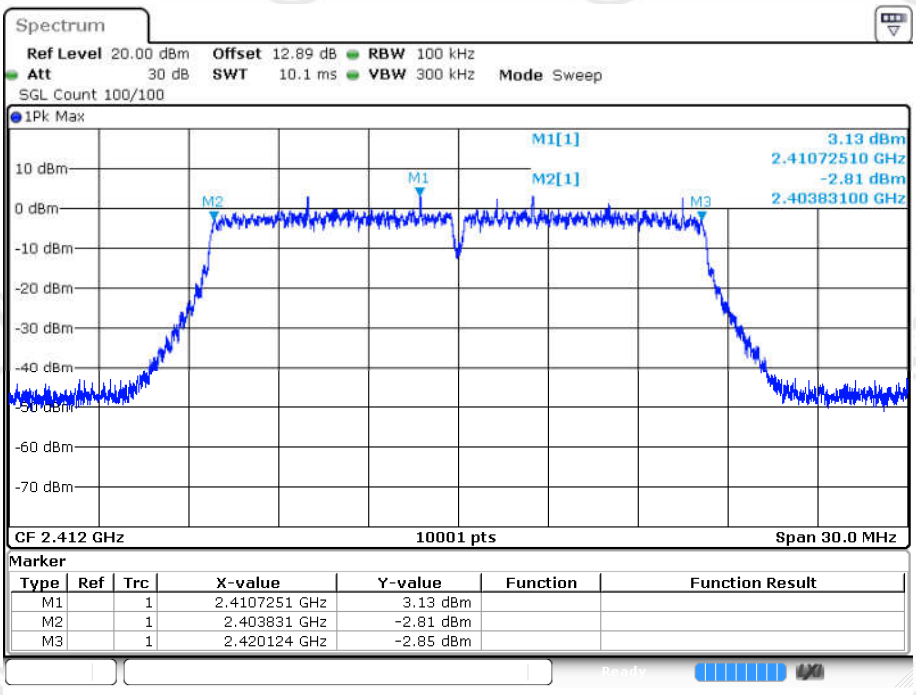
Date: 13.SEP.2024 00:54:08

-6dB Bandwidth NVNT g 2462MHz Ant1



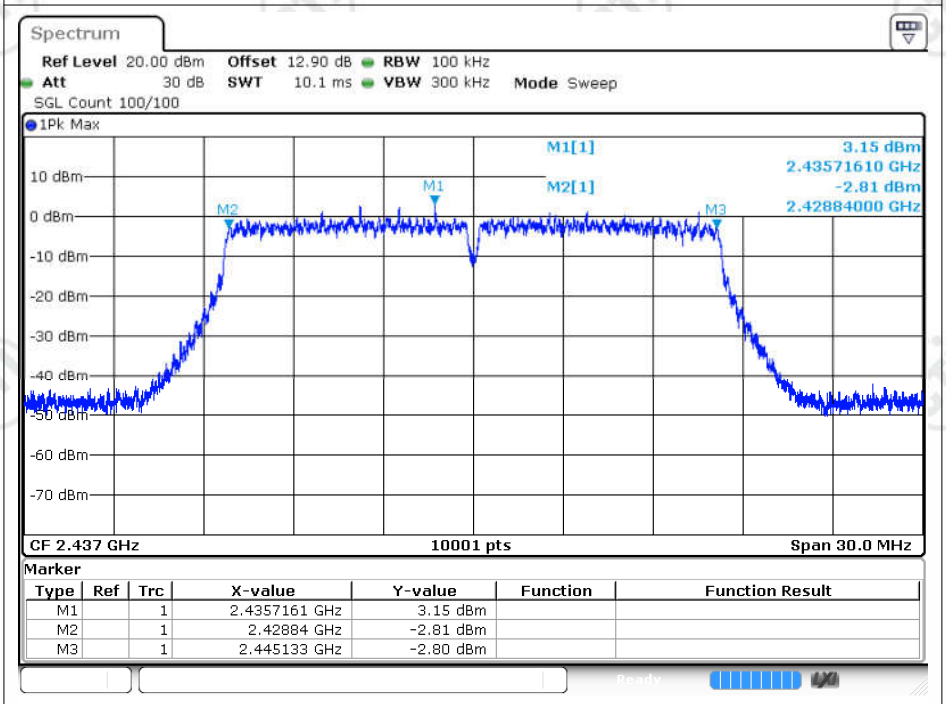
Date: 13.SEP.2024 00:56:03

-6dB Bandwidth NVNT g 2412MHz Ant2



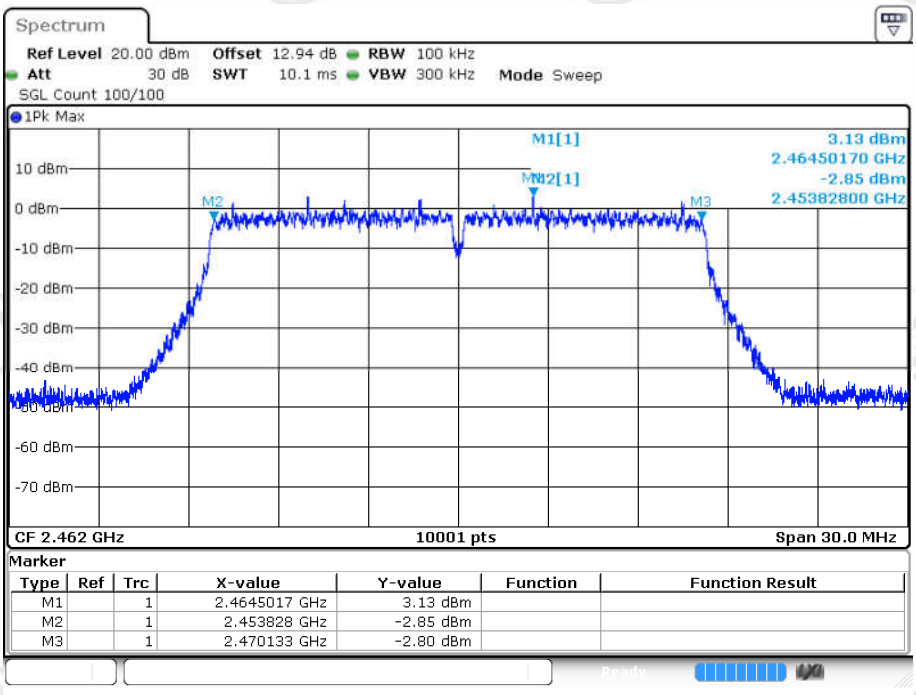
Date: 13.SEP.2024 05:23:46

-6dB Bandwidth NVNT g 2437MHz Ant2



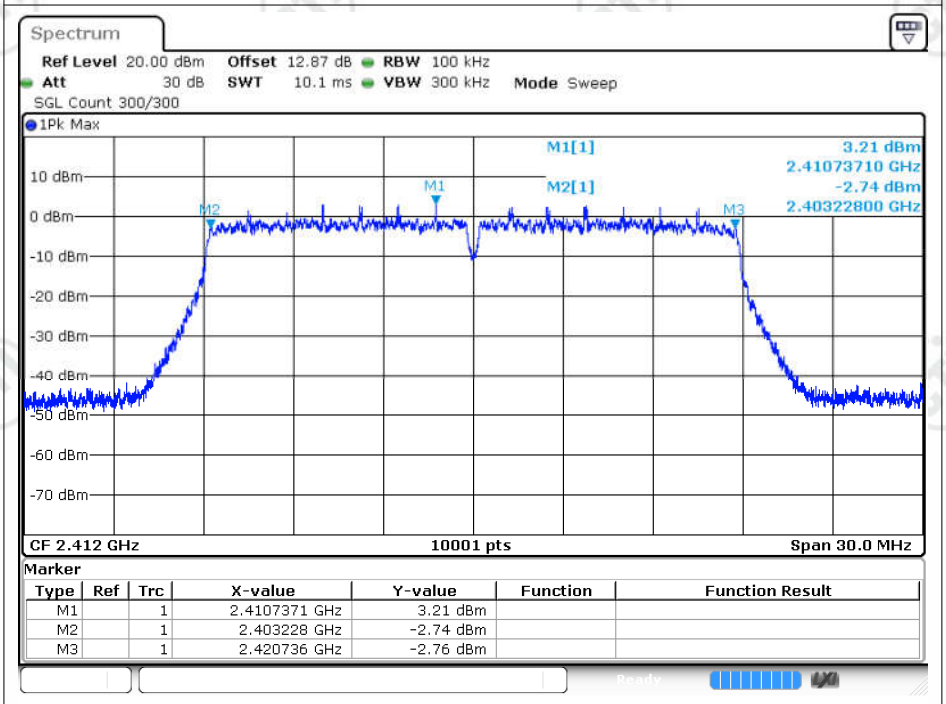
Date: 13.SEP.2024 05:27:32

-6dB Bandwidth NVNT g 2462MHz Ant2



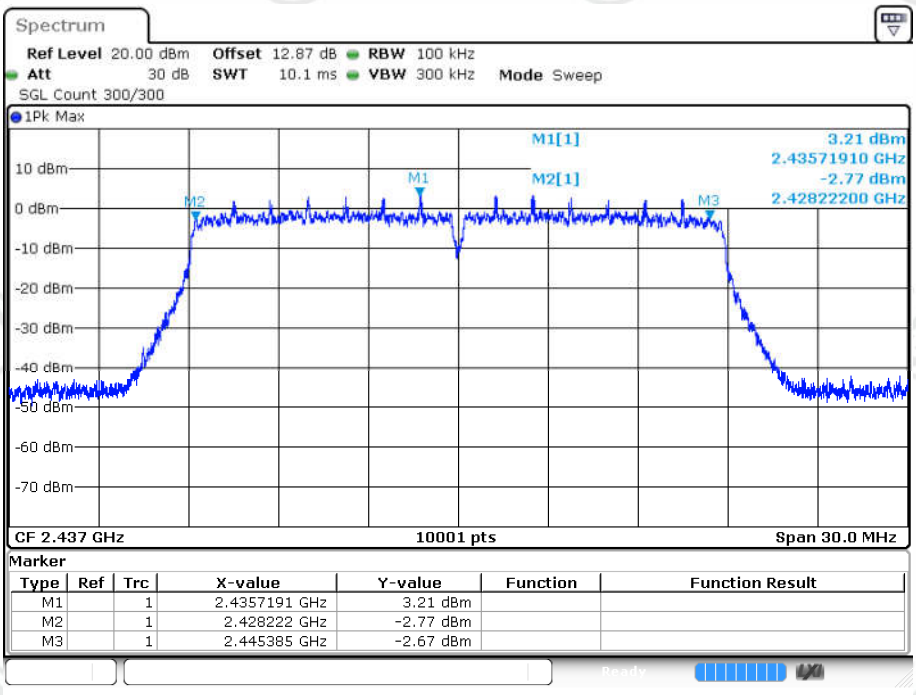
Date: 13.SEP.2024 05:29:30

-6dB Bandwidth NVNT n20 2412MHz Ant1



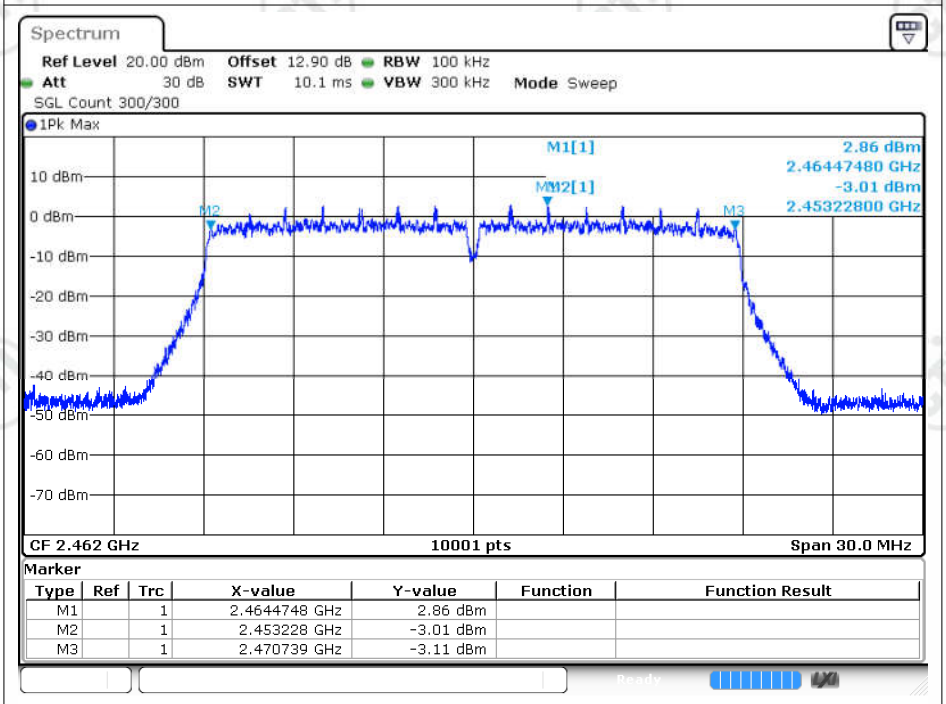
Date: 13.SEP.2024 00:58:56

-6dB Bandwidth NVNT n20 2437MHz Ant1



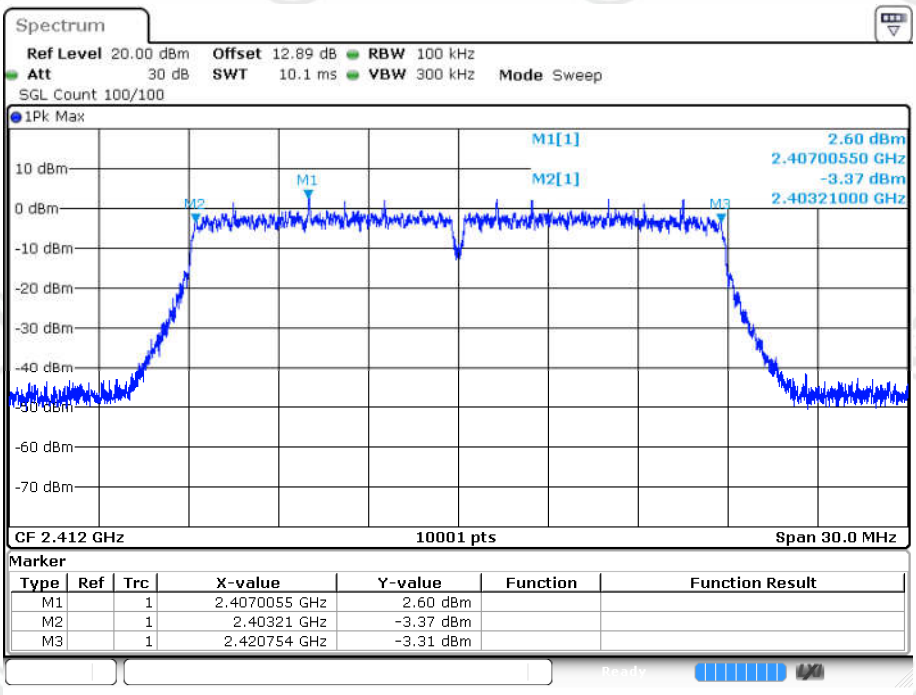
Date: 13.SEP.2024 01:03:42

-6dB Bandwidth NVNT n20 2462MHz Ant1



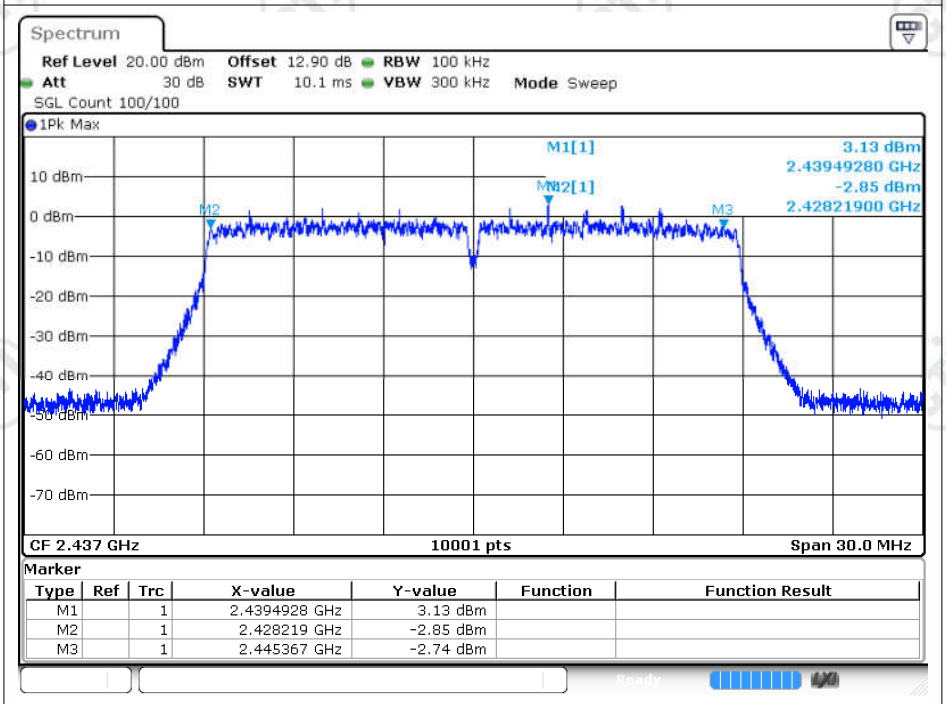
Date: 13.SEP.2024 01:05:44

-6dB Bandwidth NVNT n20 2412MHz Ant2



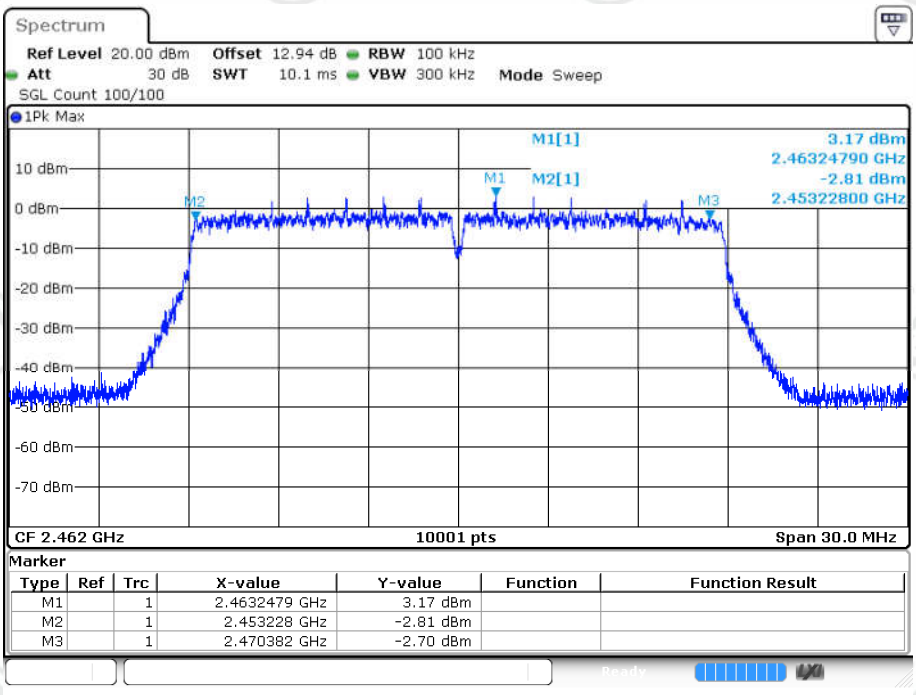
Date: 13.SEP.2024 05:31:22

-6dB Bandwidth NVNT n20 2437MHz Ant2



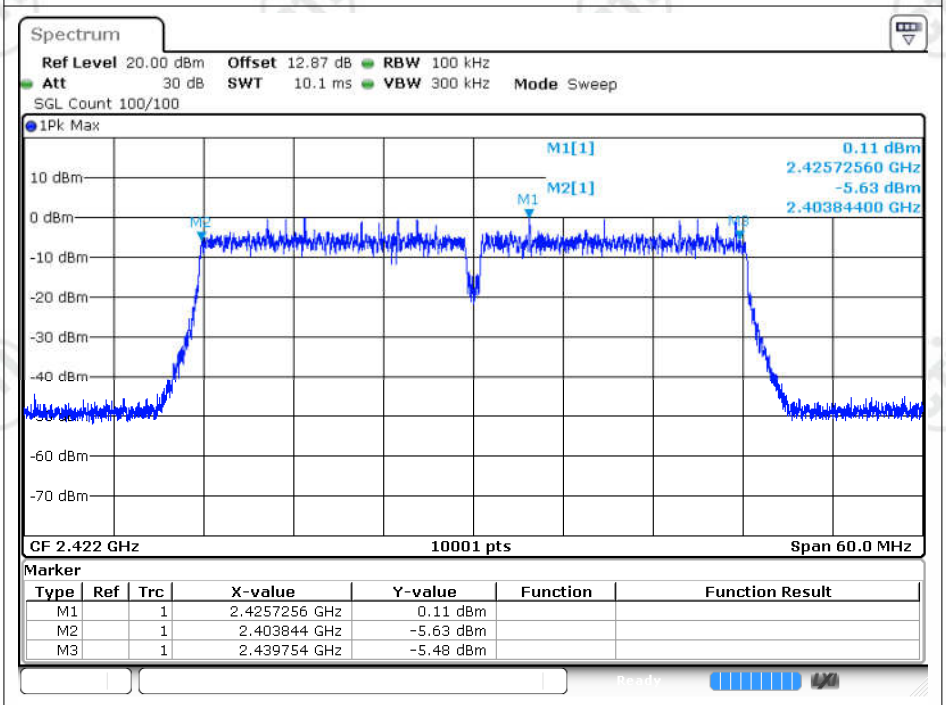
Date: 13.SEP.2024 05:33:10

-6dB Bandwidth NVNT n20 2462MHz Ant2



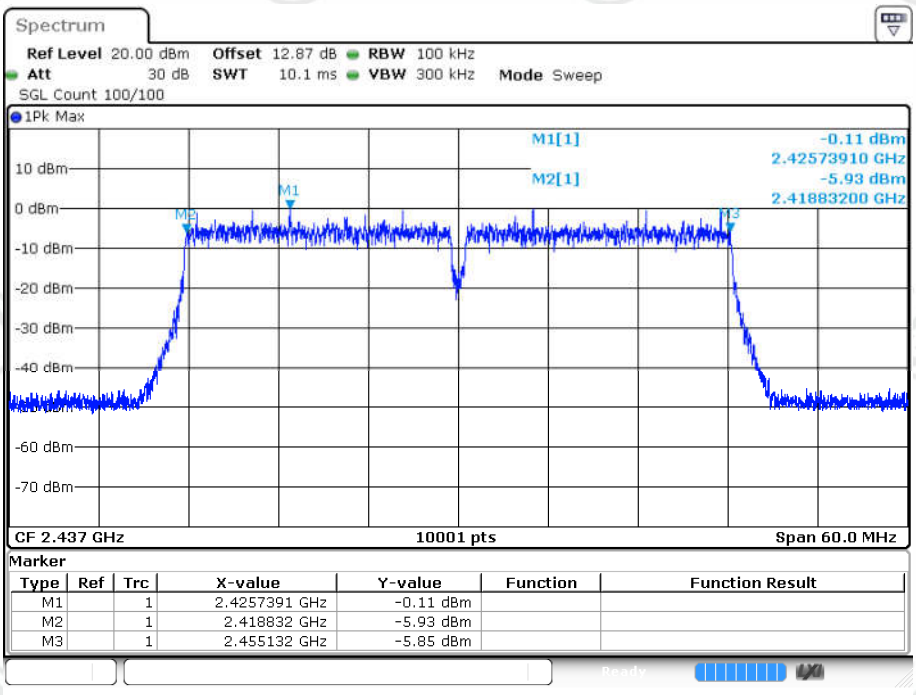
Date: 13.SEP.2024 05:34:56

-6dB Bandwidth NVNT n40 2422MHz Ant1



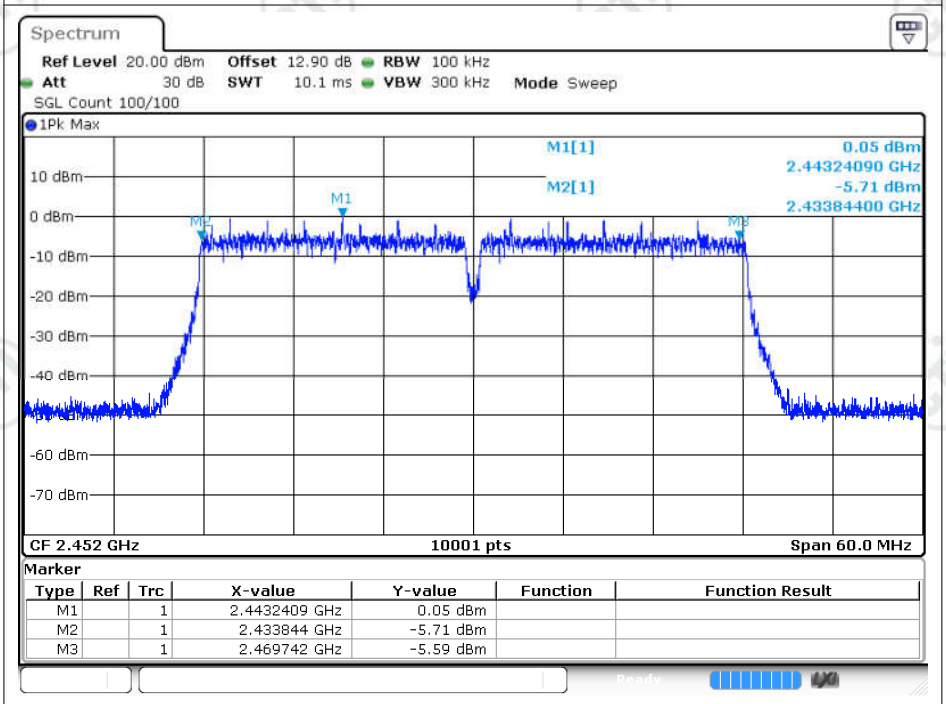
Date: 13.SEP.2024 01:14:07

-6dB Bandwidth NVNT n40 2437MHz Ant1



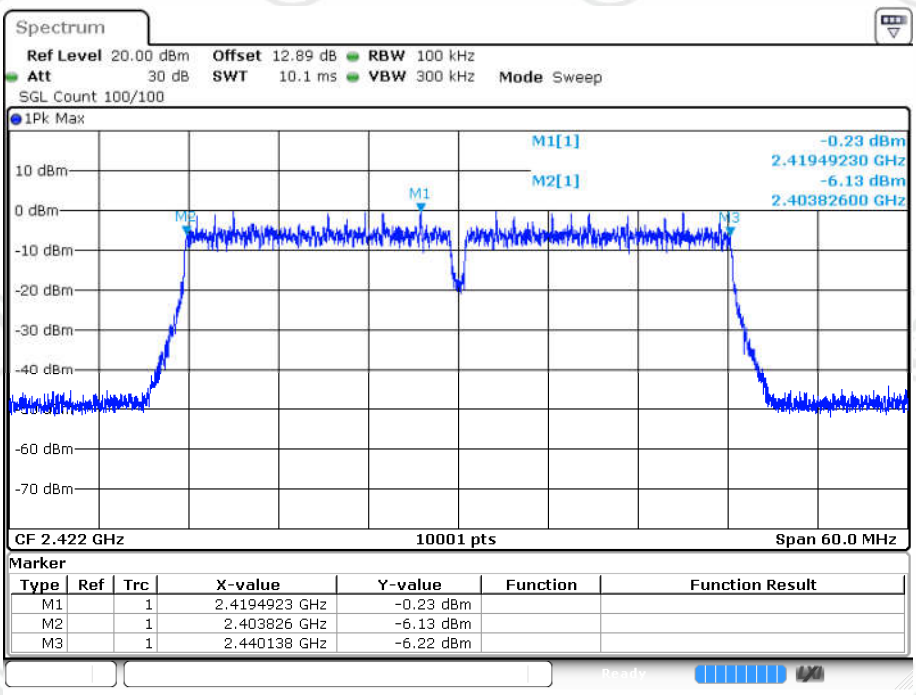
Date: 13.SEP.2024 01:24:10

-6dB Bandwidth NVNT n40 2452MHz Ant1



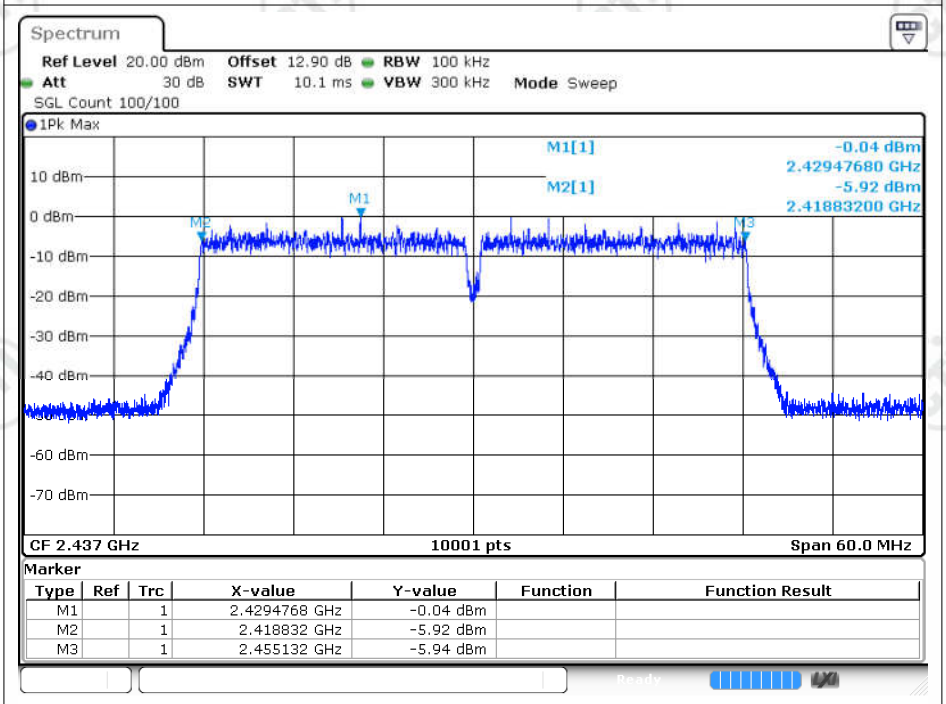
Date: 13.SEP.2024 01:28:20

-6dB Bandwidth NVNT n40 2422MHz Ant2



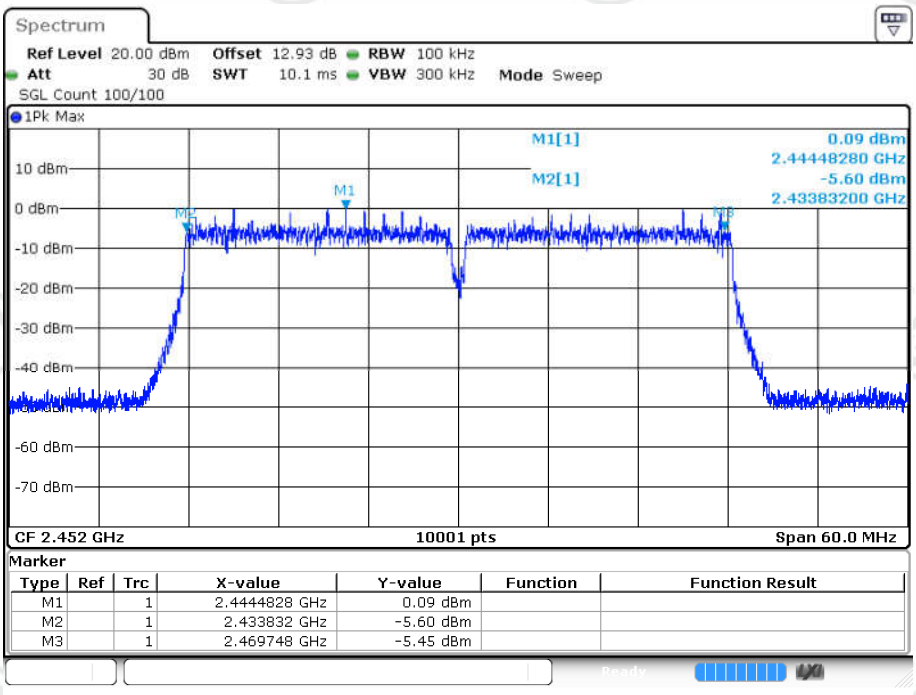
Date: 13.SEP.2024 05:40:07

-6dB Bandwidth NVNT n40 2437MHz Ant2



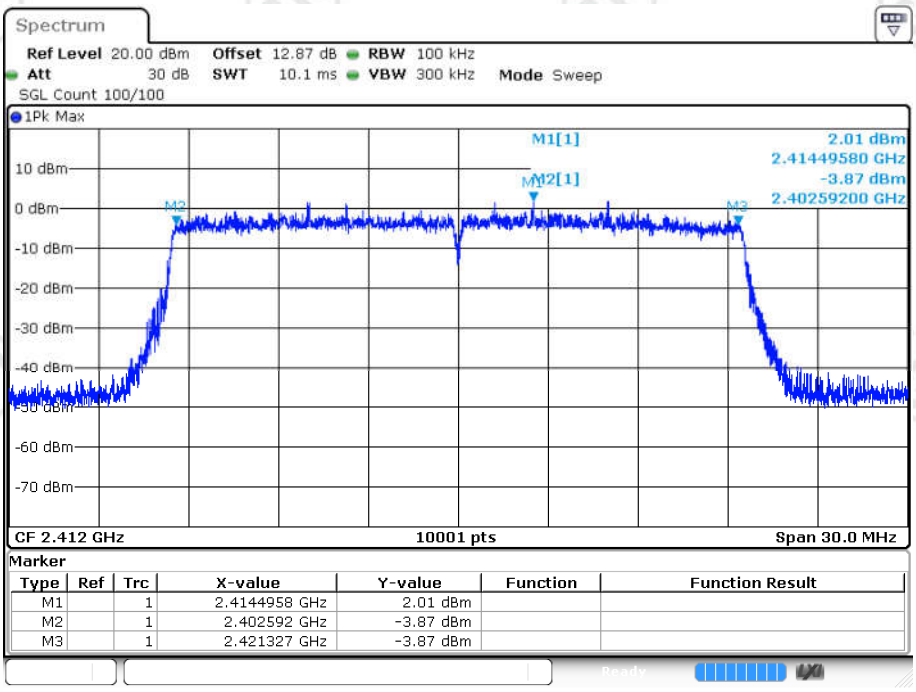
Date: 13.SEP.2024 05:44:41

-6dB Bandwidth NVNT n40 2452MHz Ant2



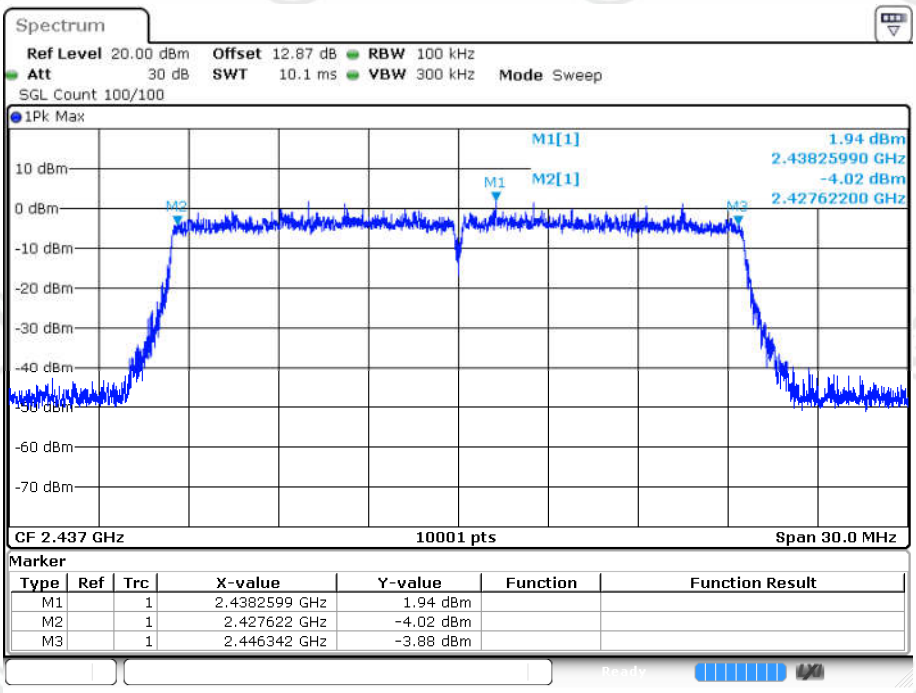
Date: 13.SEP.2024 05:49:38

-6dB Bandwidth NVNT ax20 2412MHz Ant1



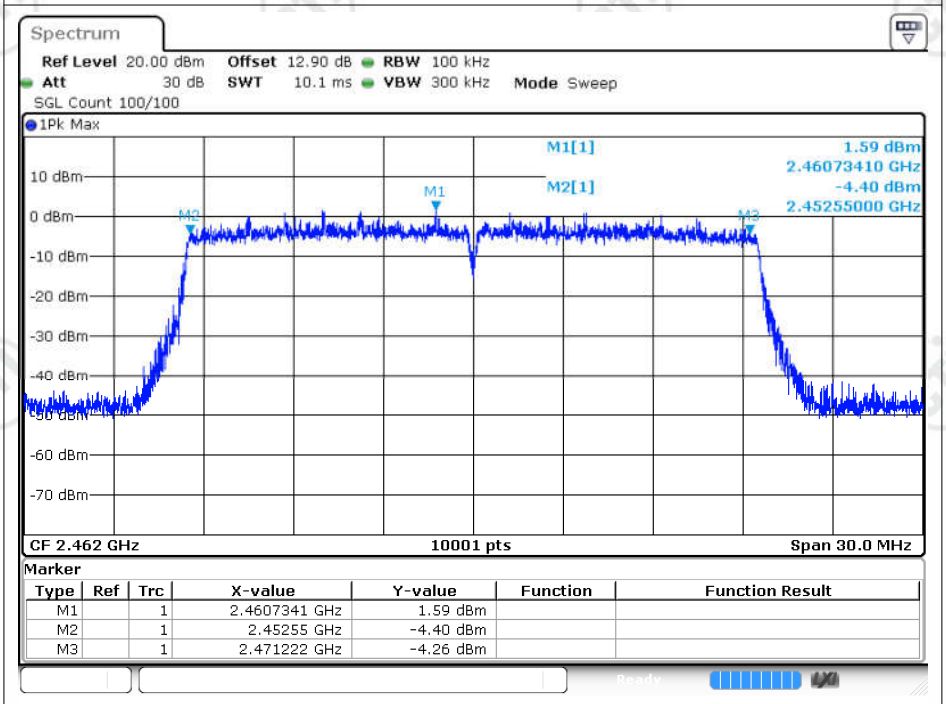
Date: 13.SEP.2024 01:32:10

-6dB Bandwidth NVNT ax20 2437MHz Ant1



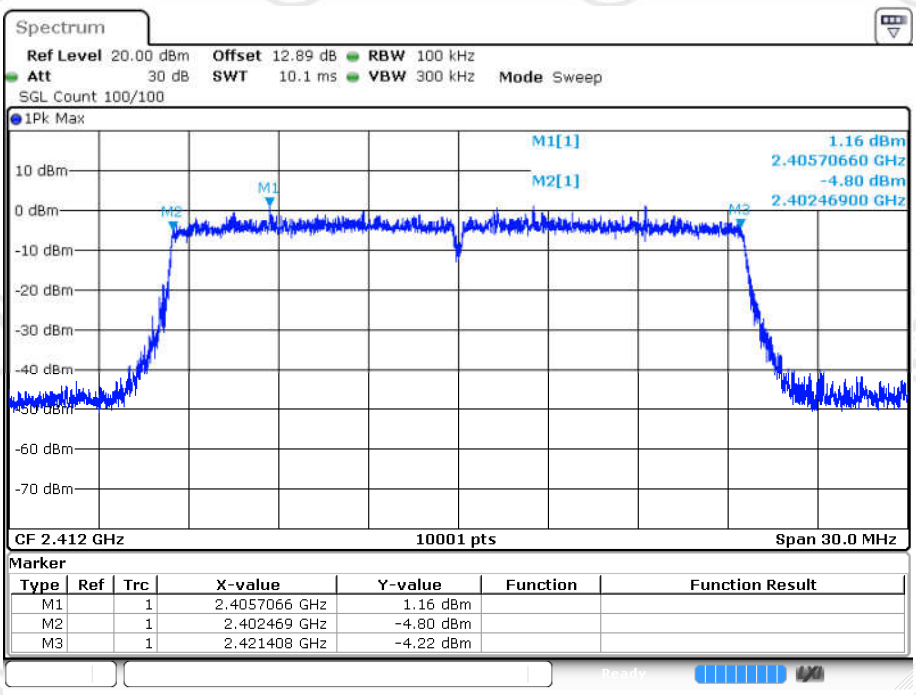
Date: 13.SEP.2024 01:37:56

-6dB Bandwidth NVNT ax20 2462MHz Ant1



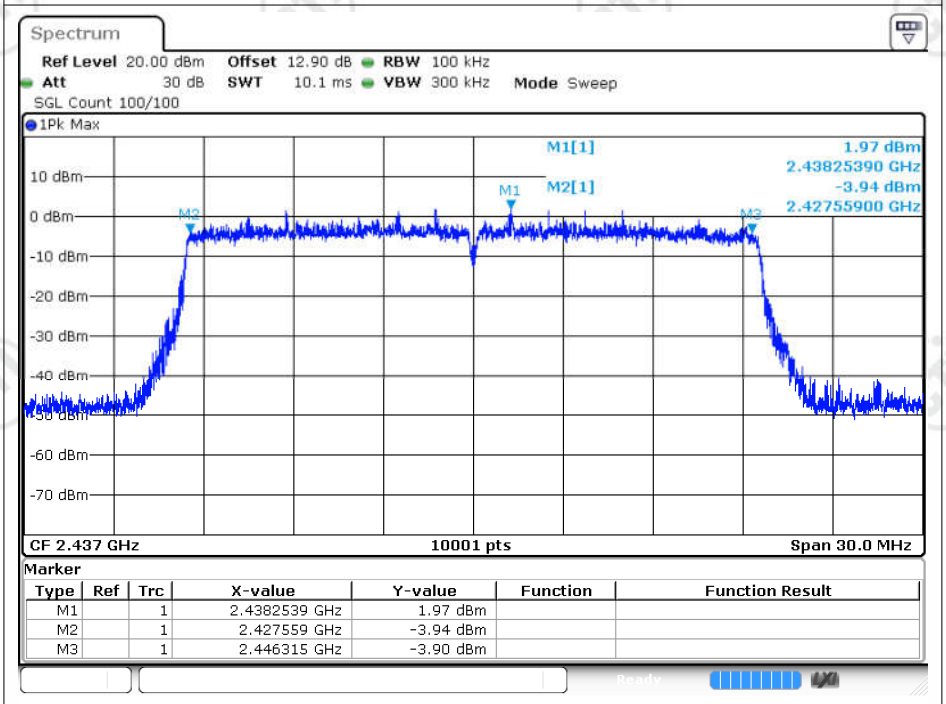
Date: 13.SEP.2024 01:40:01

-6dB Bandwidth NVNT ax20 2412MHz Ant2



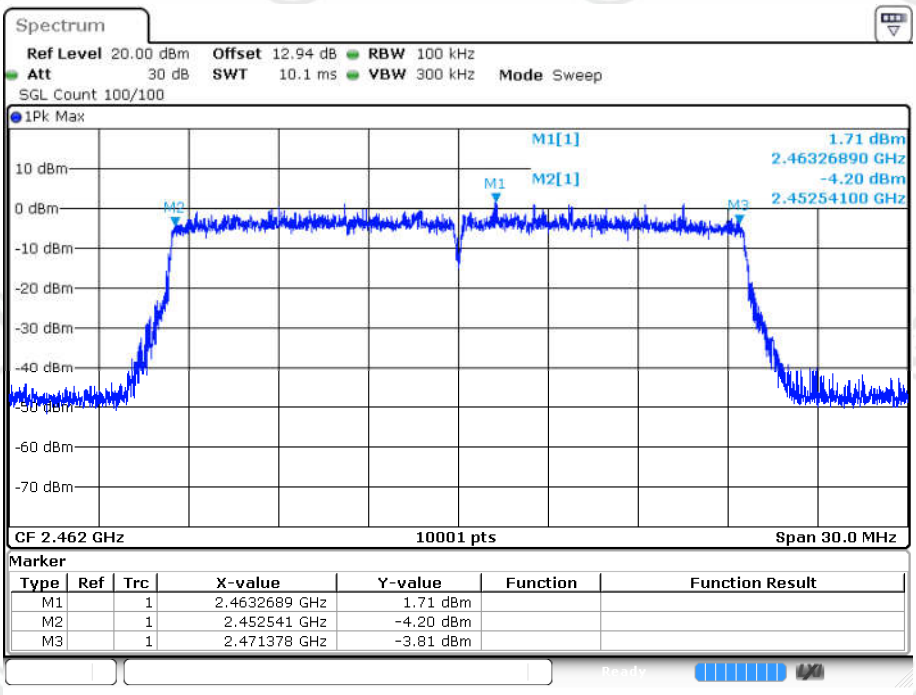
Date: 13.SEP.2024 05:52:29

-6dB Bandwidth NVNT ax20 2437MHz Ant2



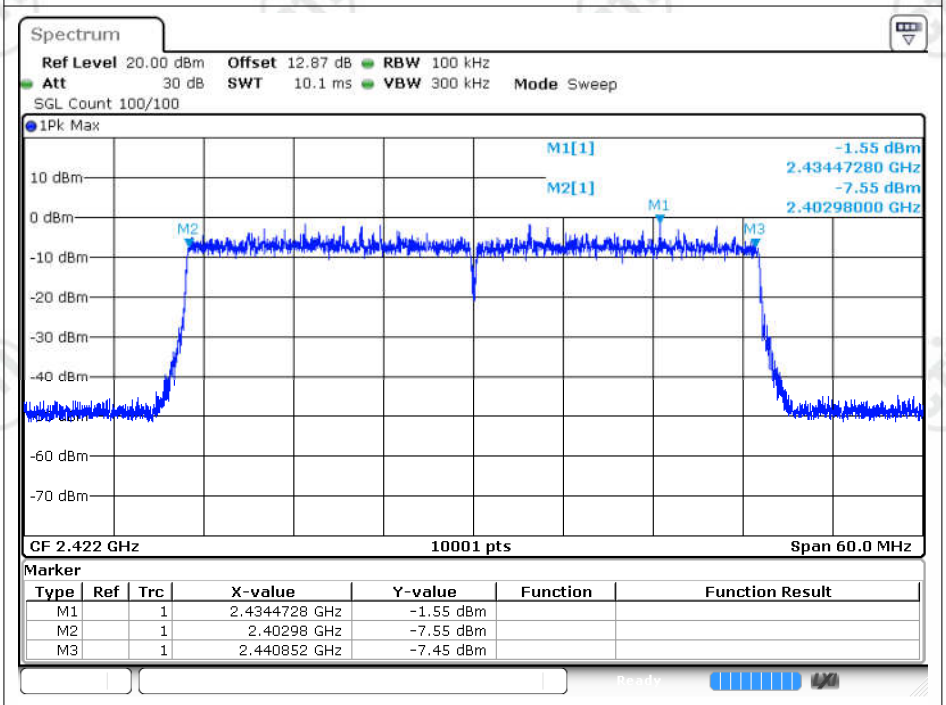
Date: 13.SEP.2024 05:54:22

-6dB Bandwidth NVNT ax20 2462MHz Ant2



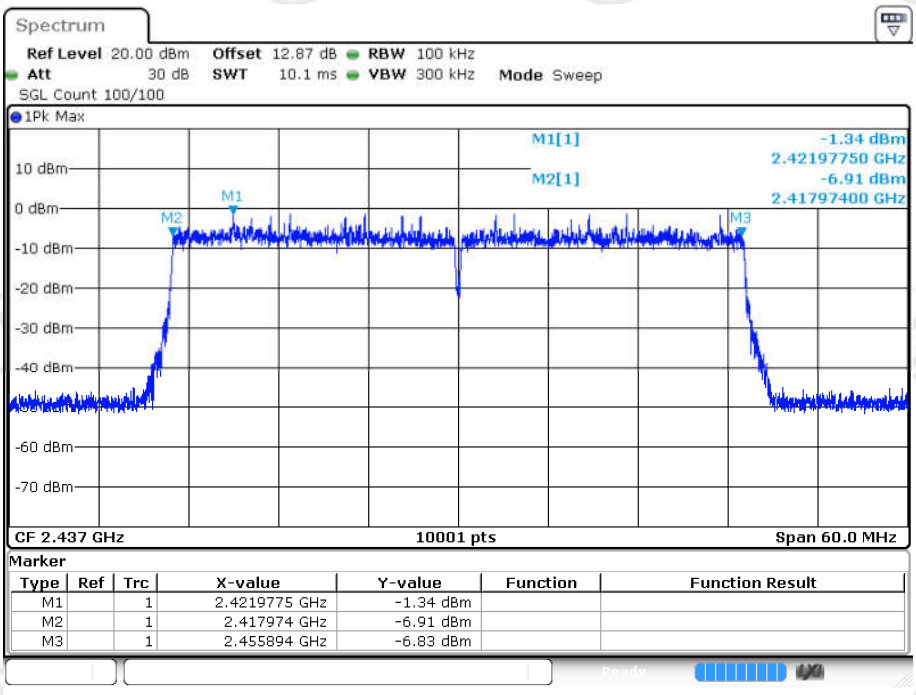
Date: 13.SEP.2024 05:56:18

-6dB Bandwidth NVNT ax40 2422MHz Ant1



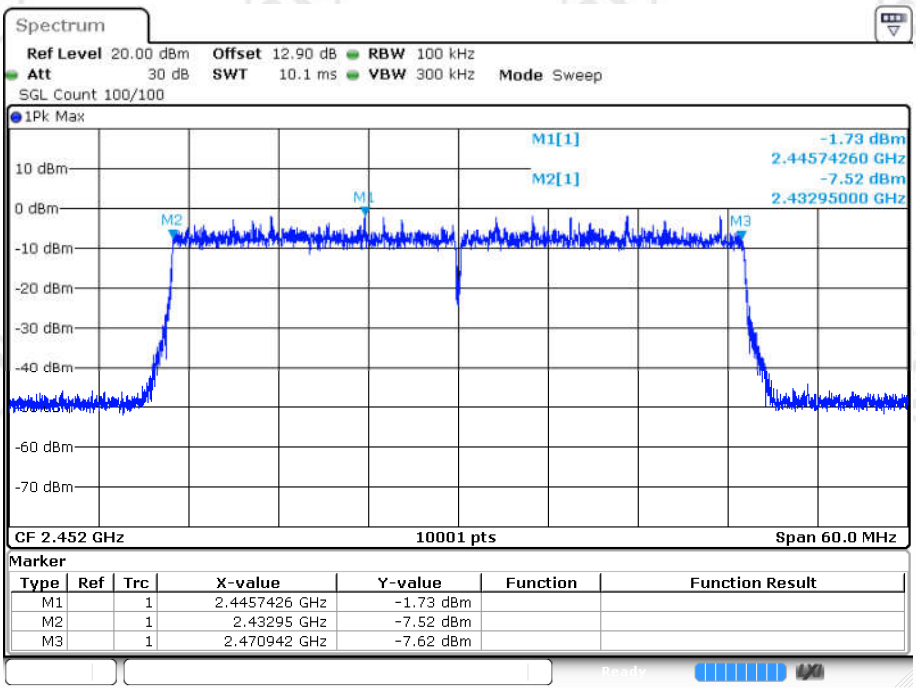
Date: 13.SEP.2024 01:44:55

-6dB Bandwidth NVNT ax40 2437MHz Ant1



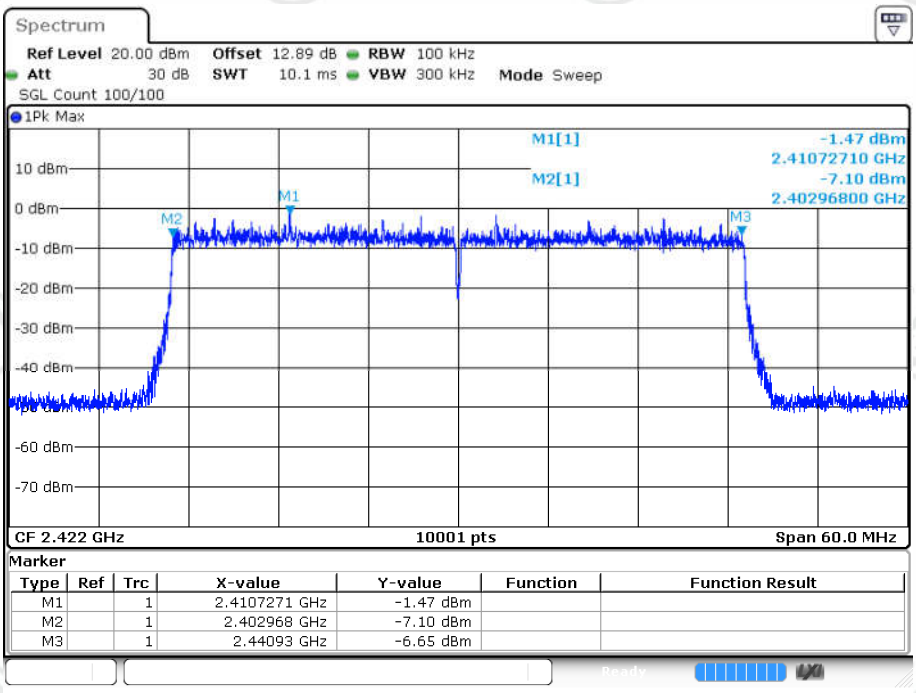
Date: 13.SEP.2024 01:50:53

-6dB Bandwidth NVNT ax40 2452MHz Ant1



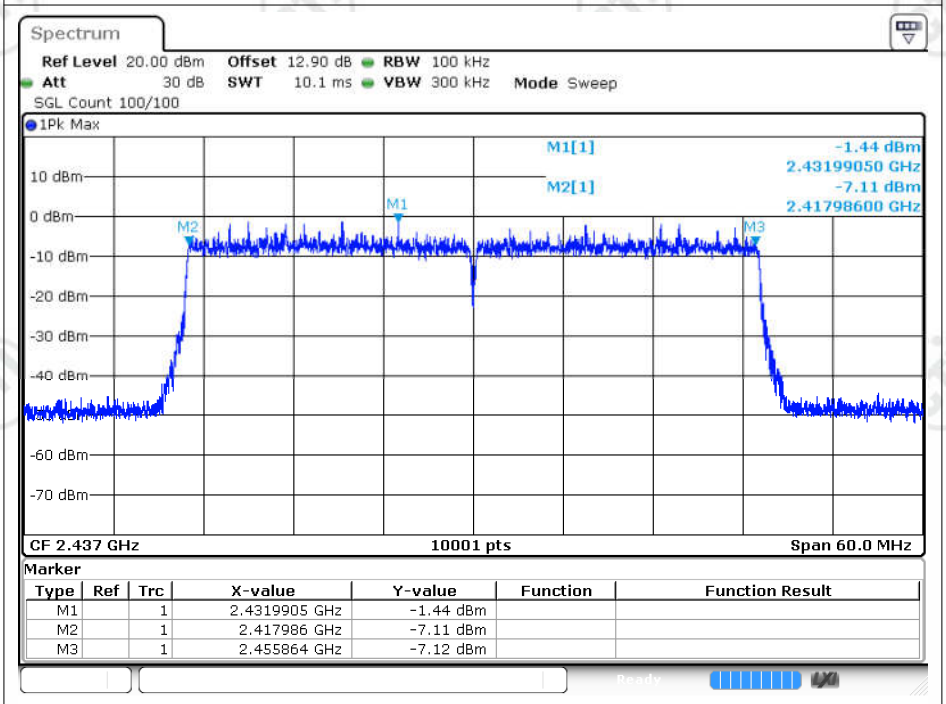
Date: 13.SEP.2024 01:55:39

-6dB Bandwidth NVNT ax40 2422MHz Ant2



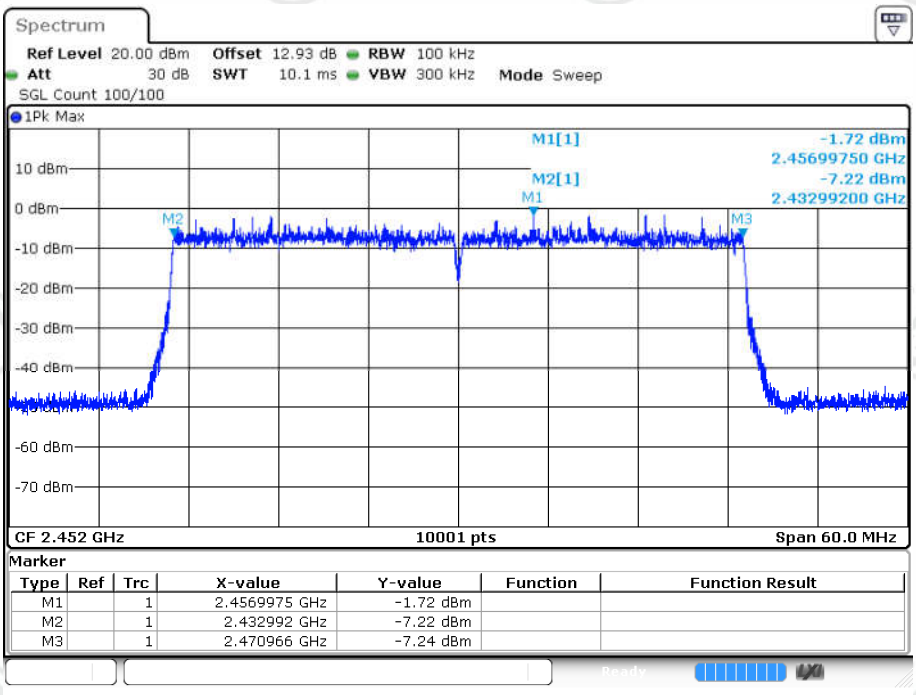
Date: 13.SEP.2024 06:01:54

-6dB Bandwidth NVNT ax40 2437MHz Ant2



Date: 13.SEP.2024 06:05:51

-6dB Bandwidth NVNT ax40 2452MHz Ant2



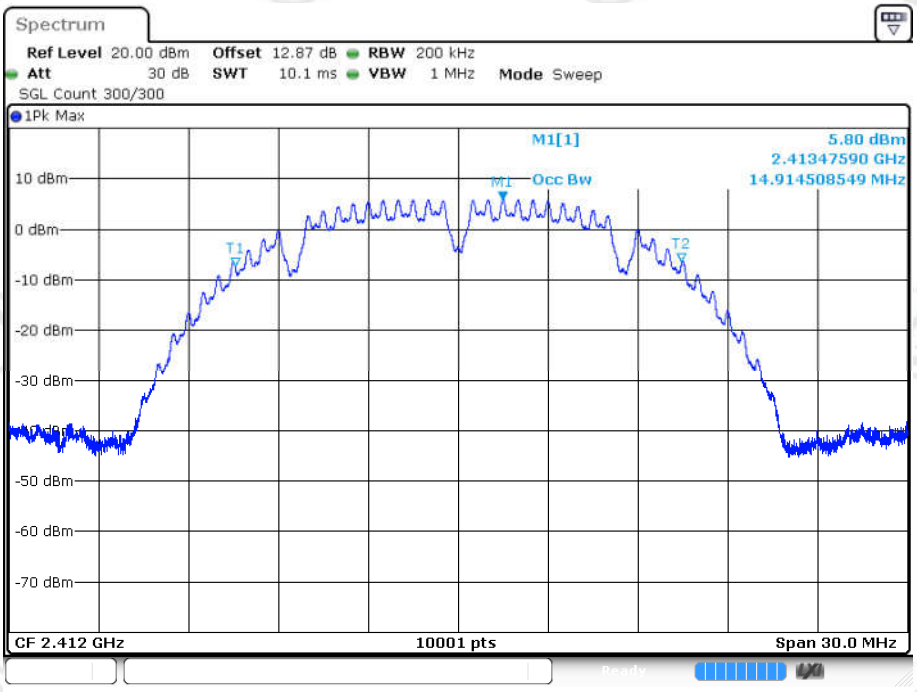
Date: 13.SEP.2024 06:09:50

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.915
NVNT	b	2437	Ant1	14.909
NVNT	b	2462	Ant1	14.903
NVNT	b	2412	Ant2	14.924
NVNT	b	2437	Ant2	14.936
NVNT	b	2462	Ant2	14.936
NVNT	g	2412	Ant1	16.342
NVNT	g	2437	Ant1	16.339
NVNT	g	2462	Ant1	16.342
NVNT	g	2412	Ant2	16.354
NVNT	g	2437	Ant2	16.348
NVNT	g	2462	Ant2	16.345
NVNT	n20	2412	Ant1	17.509
NVNT	n20	2437	Ant1	17.5
NVNT	n20	2462	Ant1	17.503
NVNT	n20	2412	Ant2	17.527
NVNT	n20	2437	Ant2	17.521
NVNT	n20	2462	Ant2	17.521
NVNT	n40	2422	Ant1	36.176
NVNT	n40	2437	Ant1	36.128
NVNT	n40	2452	Ant1	36.068
NVNT	n40	2422	Ant2	36.128
NVNT	n40	2437	Ant2	36.14
NVNT	n40	2452	Ant2	36.098
NVNT	ax20	2412	Ant1	18.871
NVNT	ax20	2437	Ant1	18.871
NVNT	ax20	2462	Ant1	18.886
NVNT	ax20	2412	Ant2	18.877
NVNT	ax20	2437	Ant2	18.877
NVNT	ax20	2462	Ant2	18.883
NVNT	ax40	2422	Ant1	37.766
NVNT	ax40	2437	Ant1	37.778
NVNT	ax40	2452	Ant1	37.754
NVNT	ax40	2422	Ant2	37.784
NVNT	ax40	2437	Ant2	37.766
NVNT	ax40	2452	Ant2	37.784

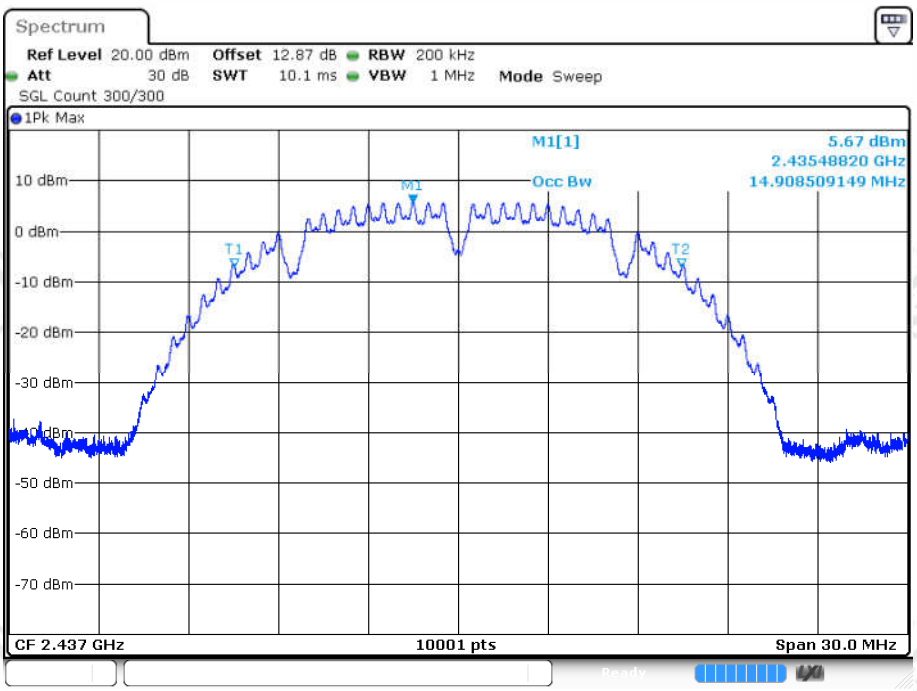
Test Graphs

OBW NVNT b 2412MHz Ant1



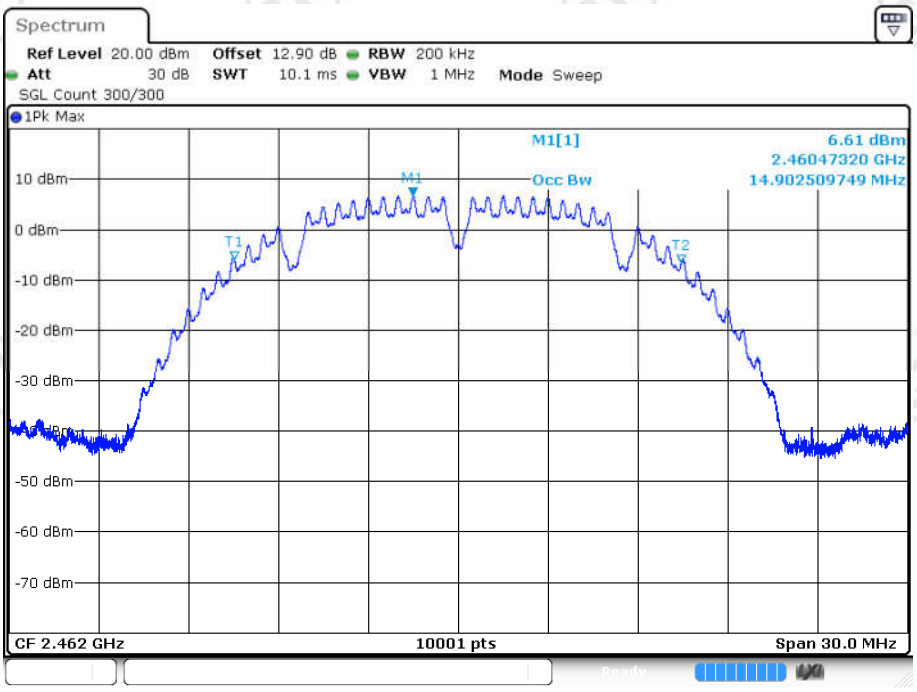
Date: 13.SEP.2024 00:42:41

OBW NVNT b 2437MHz Ant1



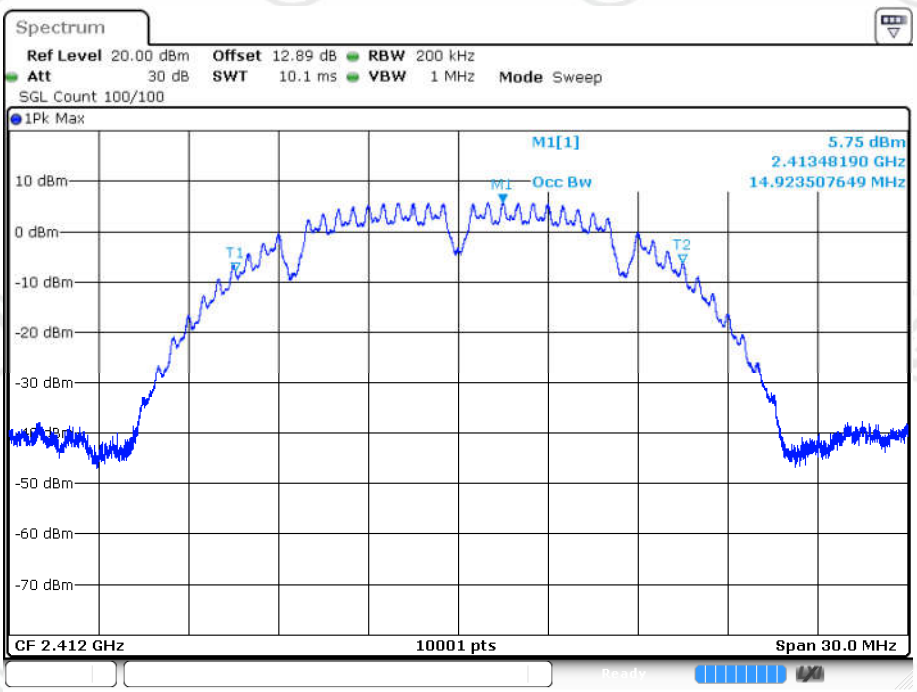
Date: 13.SEP.2024 00:45:19

OBW NVNT b 2462MHz Ant1



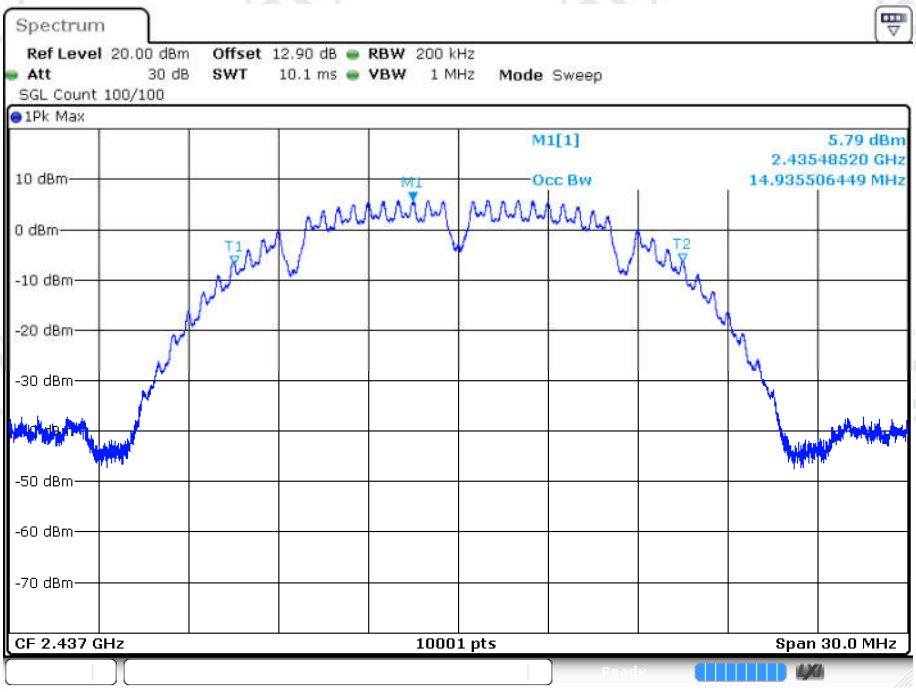
Date: 13.SEP.2024 00:48:19

OBW NVNT b 2412MHz Ant2



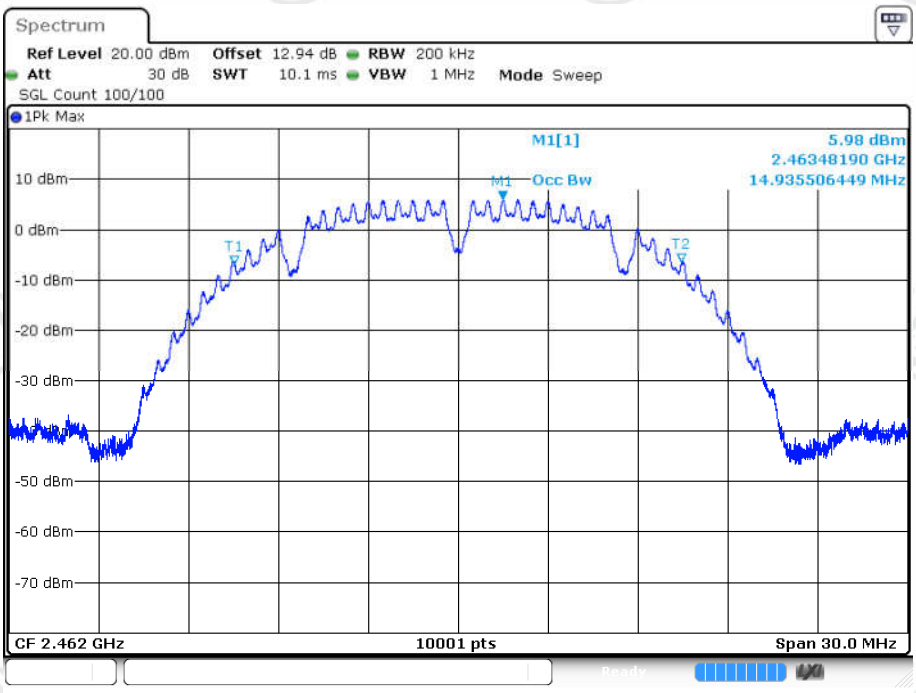
Date: 13.SEP.2024 05:17:21

OBW NVNT b 2437MHz Ant2



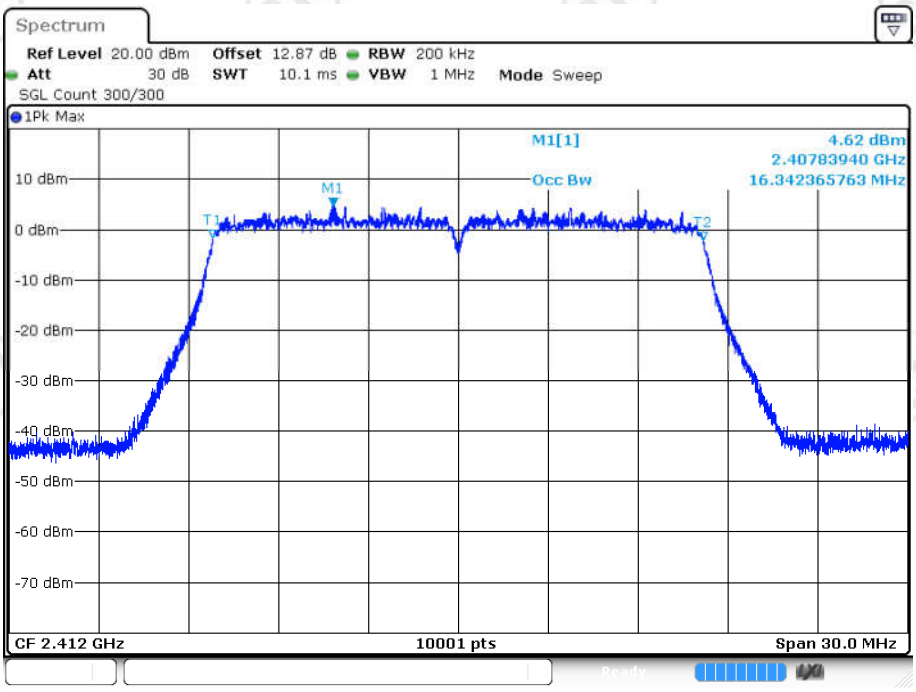
Date: 13.SEP.2024 05:19:02

OBW NVNT b 2462MHz Ant2



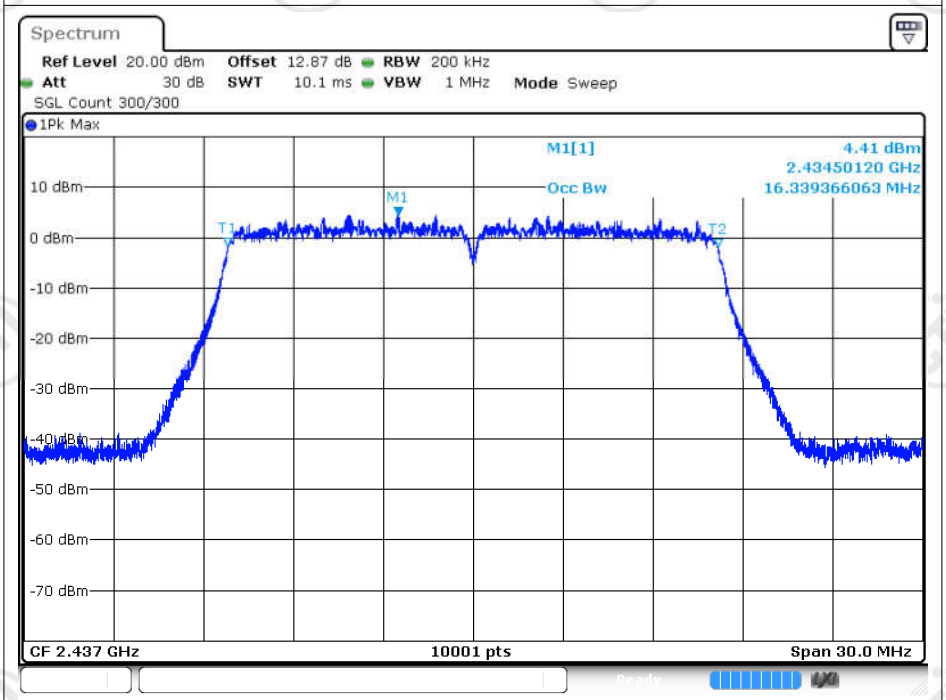
Date: 13.SEP.2024 05:20:49

OBW NVNT g 2412MHz Ant1



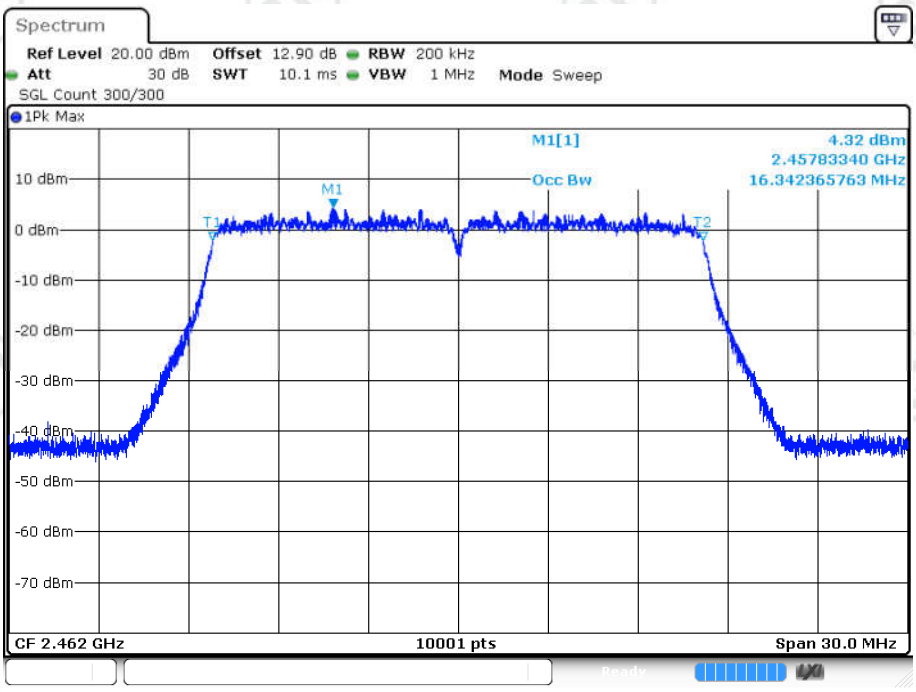
Date: 13.SEP.2024 00:51:40

OBW NVNT g 2437MHz Ant1



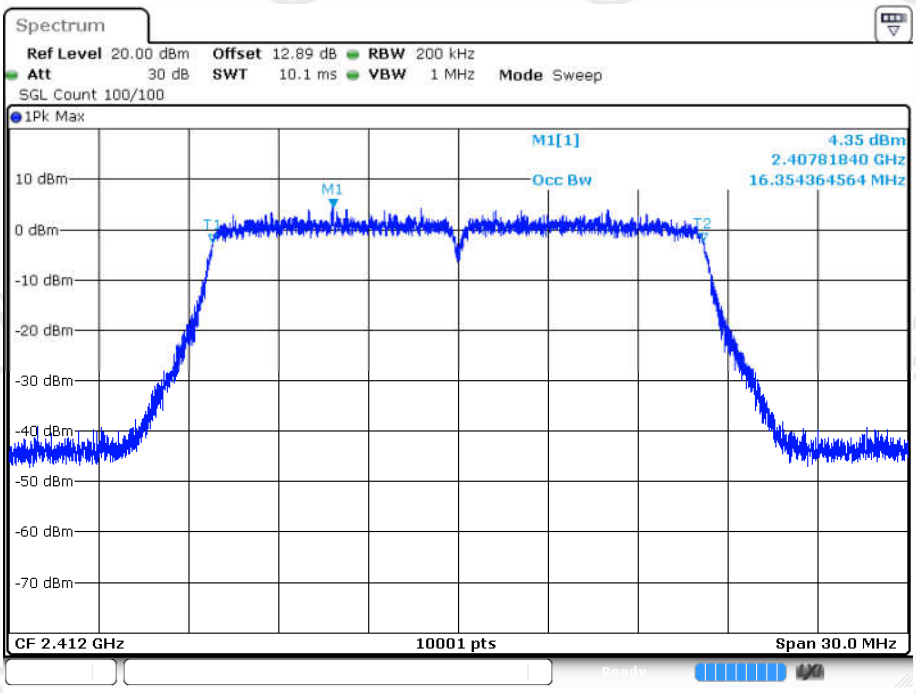
Date: 13.SEP.2024 00:53:54

OBW NVNT g 2462MHz Ant1



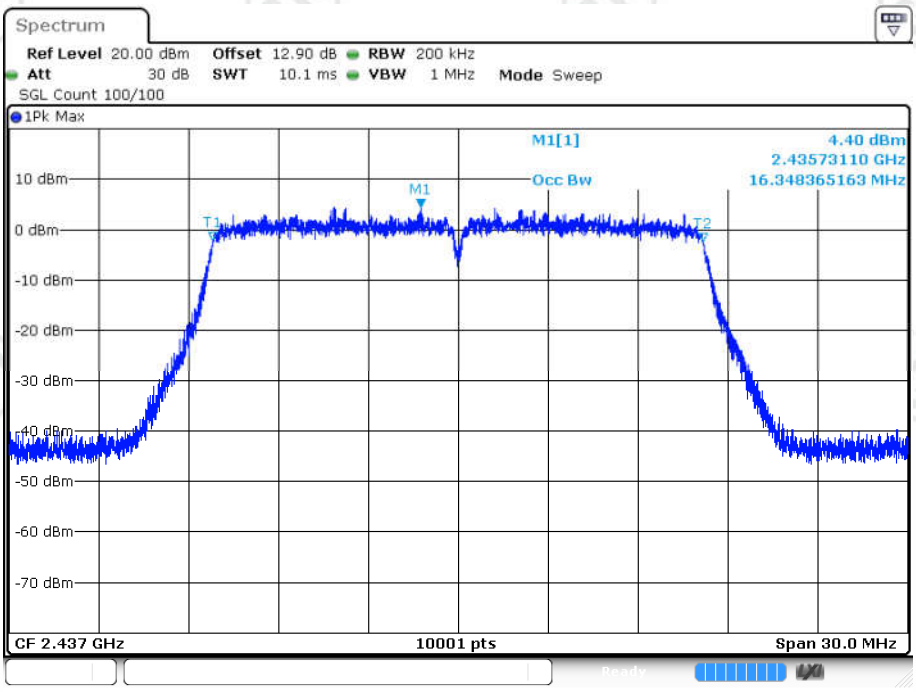
Date: 13.SEP.2024 00:55:48

OBW NVNT g 2412MHz Ant2



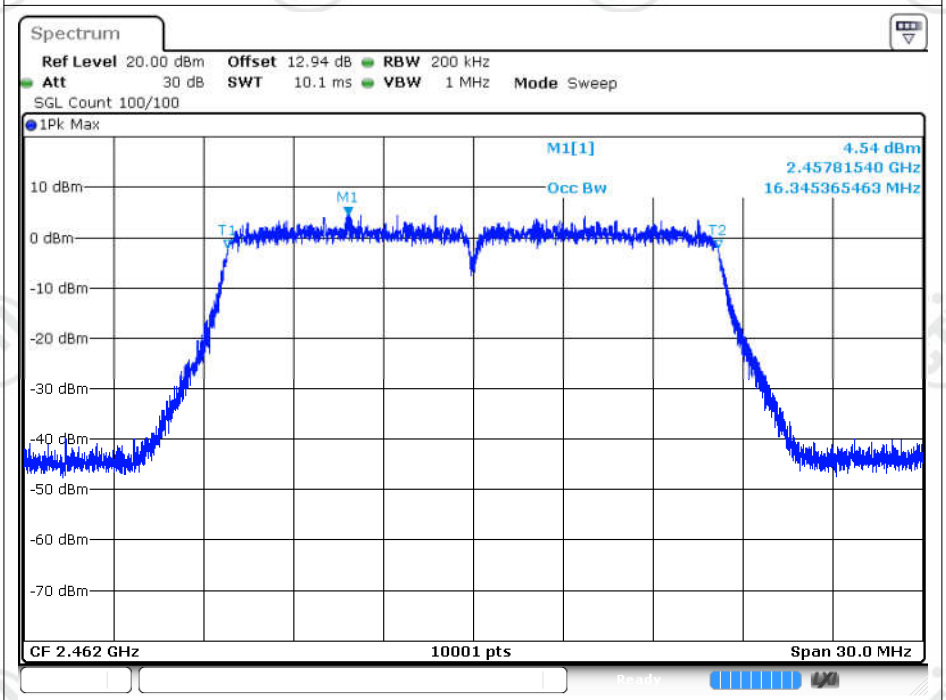
Date: 13.SEP.2024 05:23:40

OBW NVNT g 2437MHz Ant2



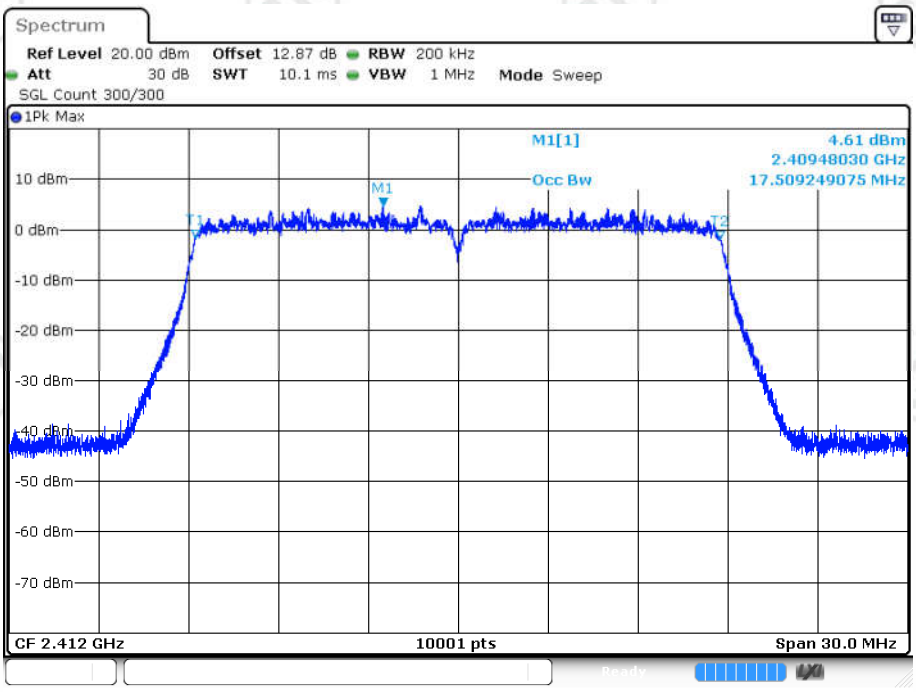
Date: 13.SEP.2024 05:27:08

OBW NVNT g 2462MHz Ant2



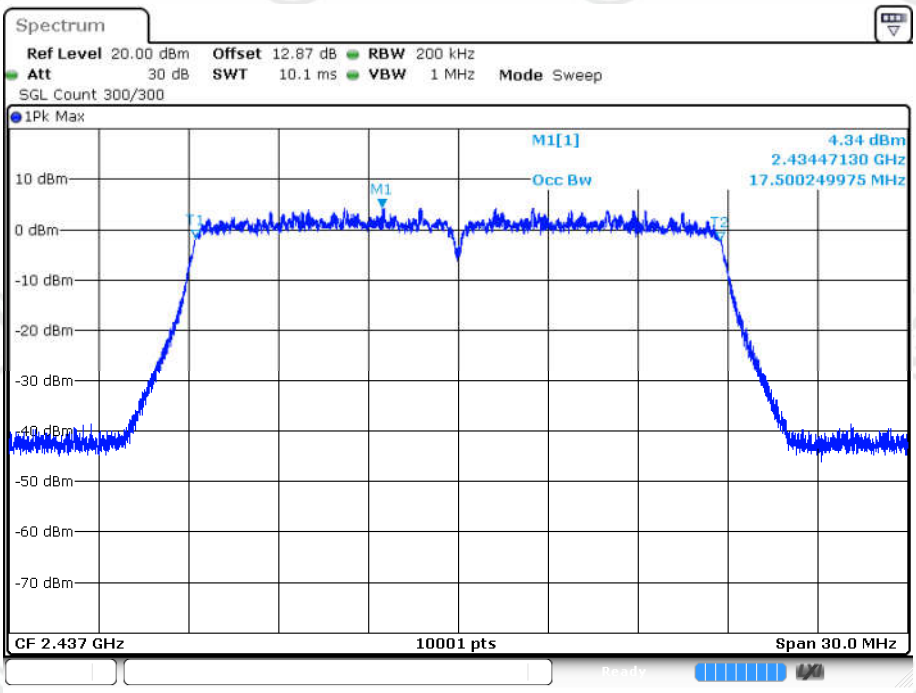
Date: 13.SEP.2024 05:29:21

OBW NVNT n20 2412MHz Ant1



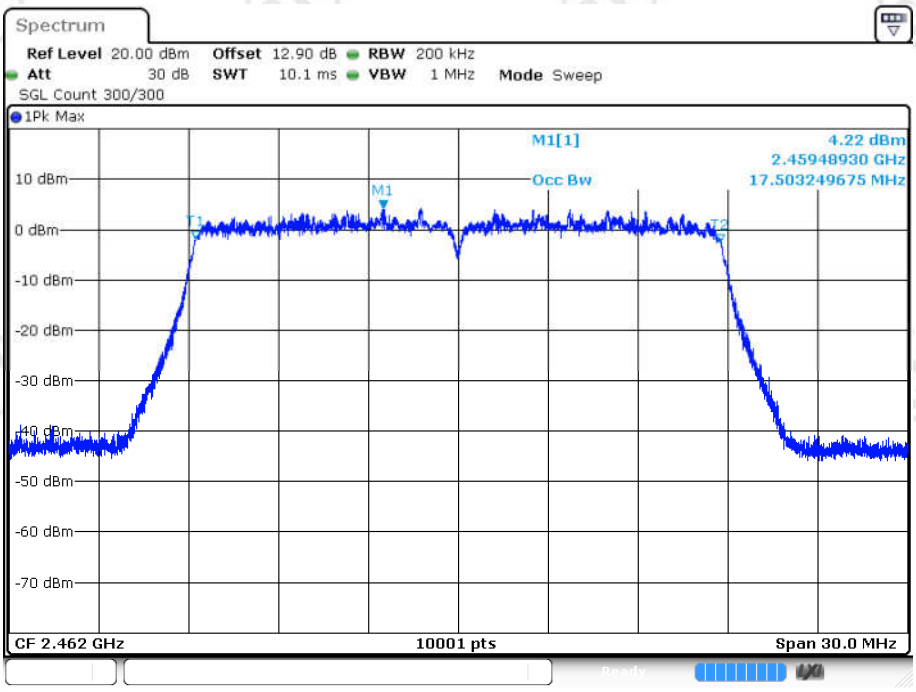
Date: 13.SEP.2024 00:58:26

OBW NVNT n20 2437MHz Ant1



Date: 13.SEP.2024 01:03:27

OBW NVNT n20 2462MHz Ant1



Date: 13.SEP.2024 01:05:31

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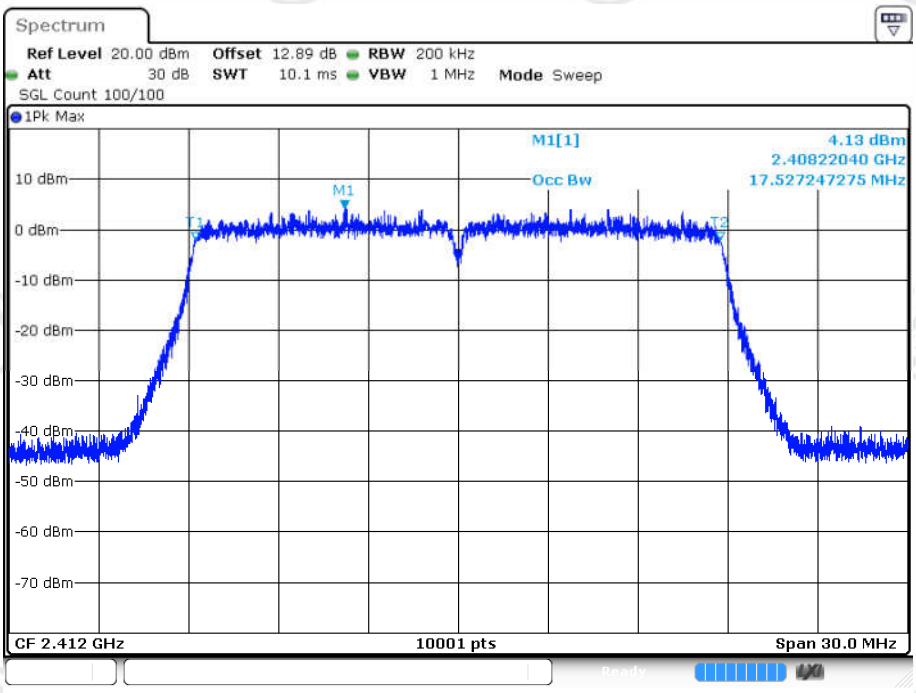

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