

Appendix: 2.4G Wi-Fi

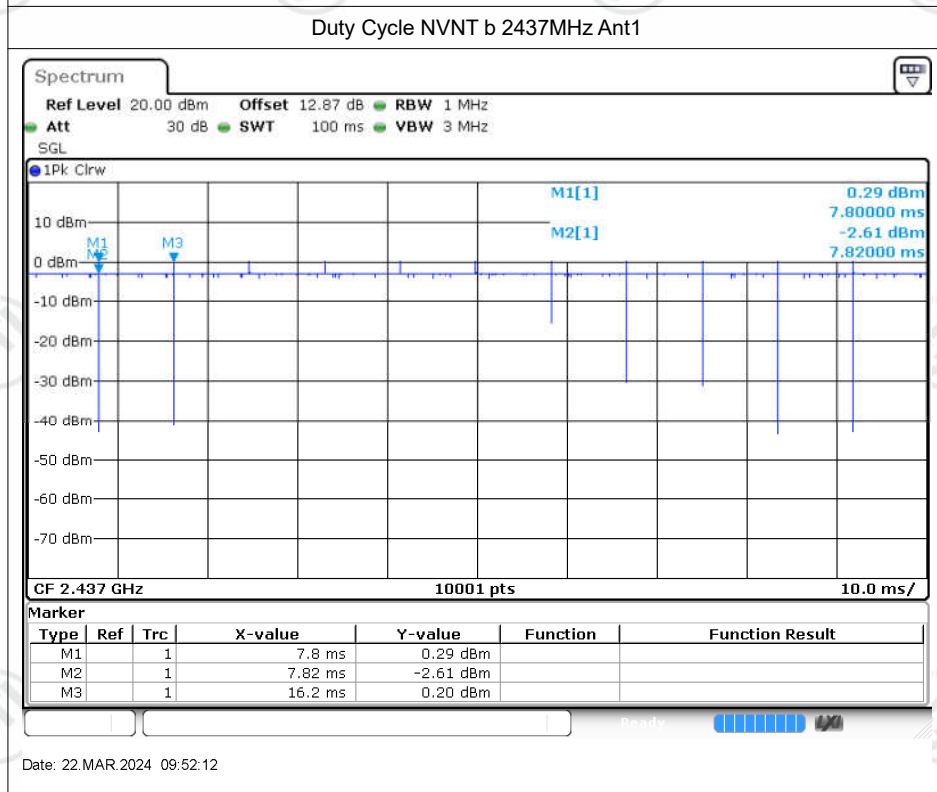
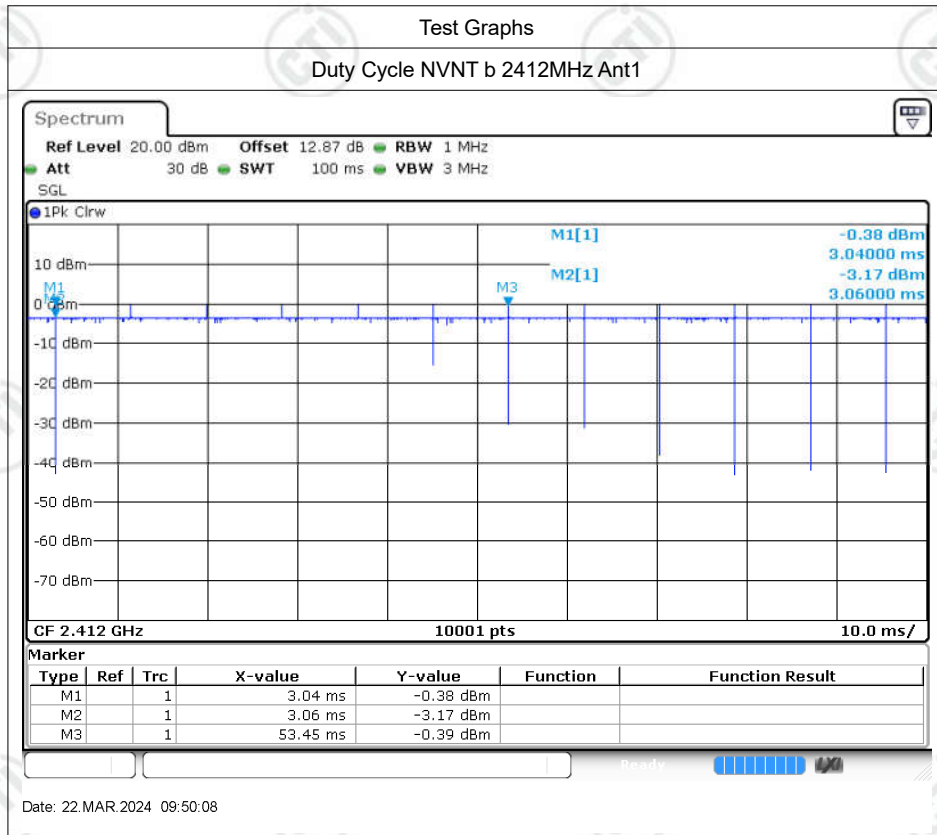
## Contents

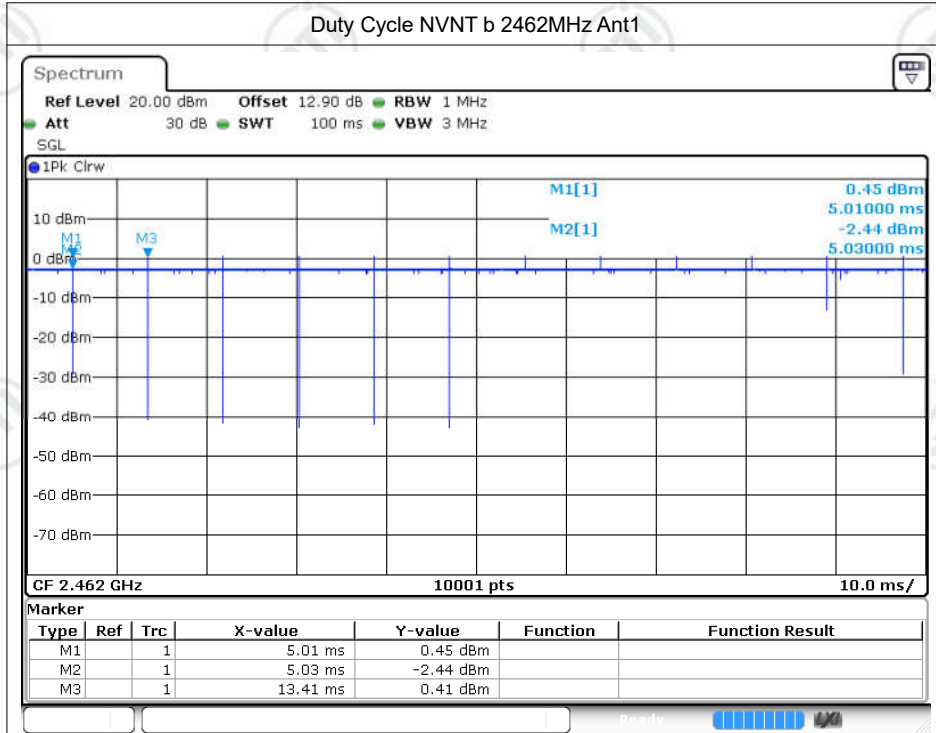
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## Duty Cycle

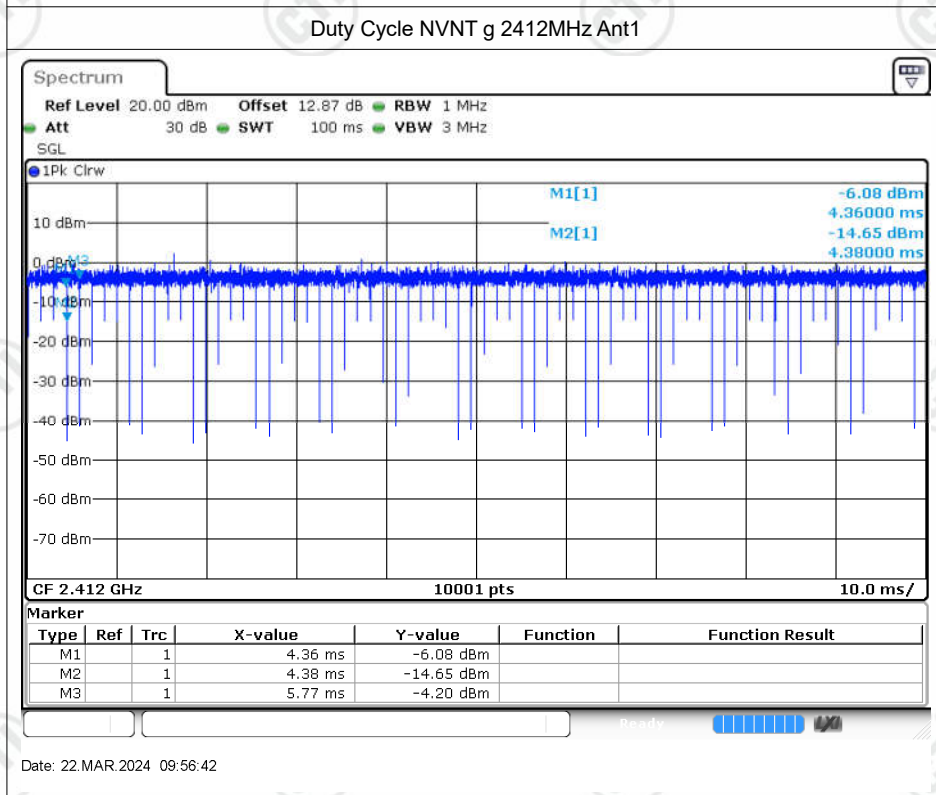
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Duty Cycle Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.96	0	0.02
NVNT	b	2437	Ant1	99.76	0	0.12
NVNT	b	2462	Ant1	99.76	0	0.12
NVNT	g	2412	Ant1	98.58	0	0.72
NVNT	g	2437	Ant1	98.58	0	0.72
NVNT	g	2462	Ant1	98.58	0	0.72
NVNT	n20	2412	Ant1	98.86	0	0.77
NVNT	n20	2437	Ant1	98.48	0	0.77
NVNT	n20	2462	Ant1	98.86	0	0.77
NVNT	n40	2422	Ant1	99.51	0	0.31
NVNT	n40	2437	Ant1	96.34	0.16	1.58
NVNT	n40	2452	Ant1	97.53	0.11	1.58

Note: Duty cycle factor =  $10 \cdot \lg(1/\text{Duty cycle})$ ;

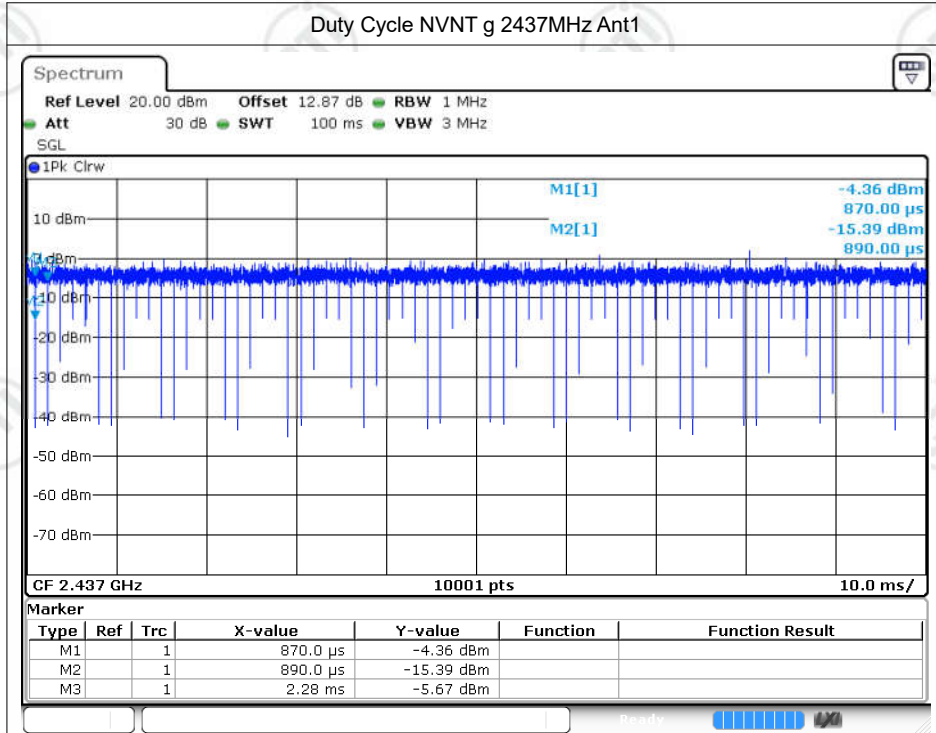




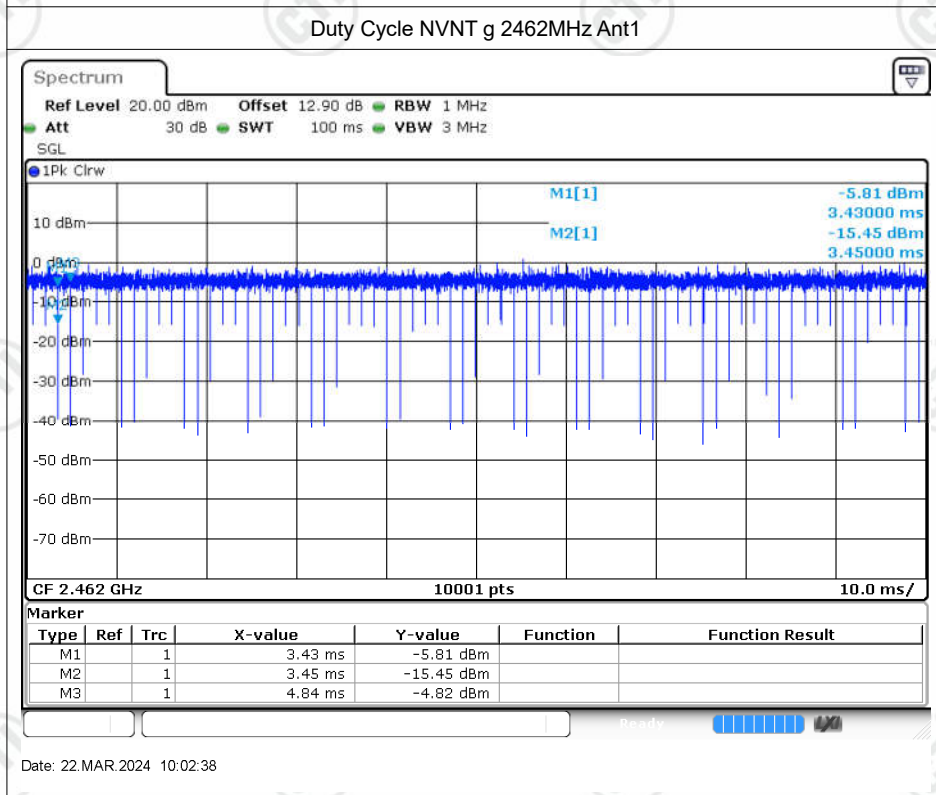
Date: 22.MAR.2024 10:22:55



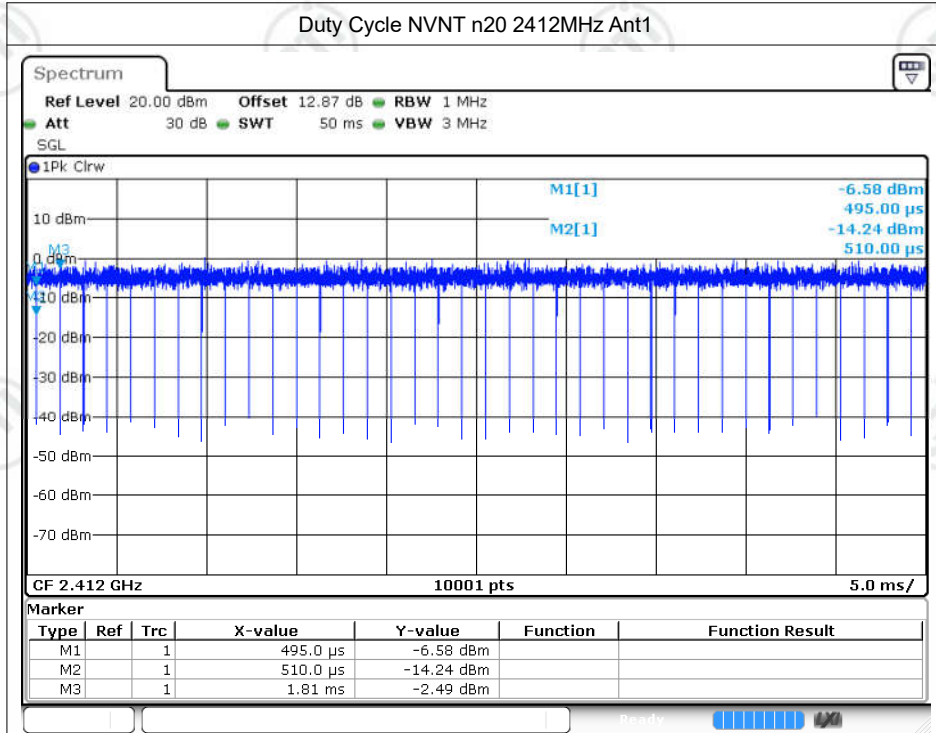
Date: 22.MAR.2024 09:58:42



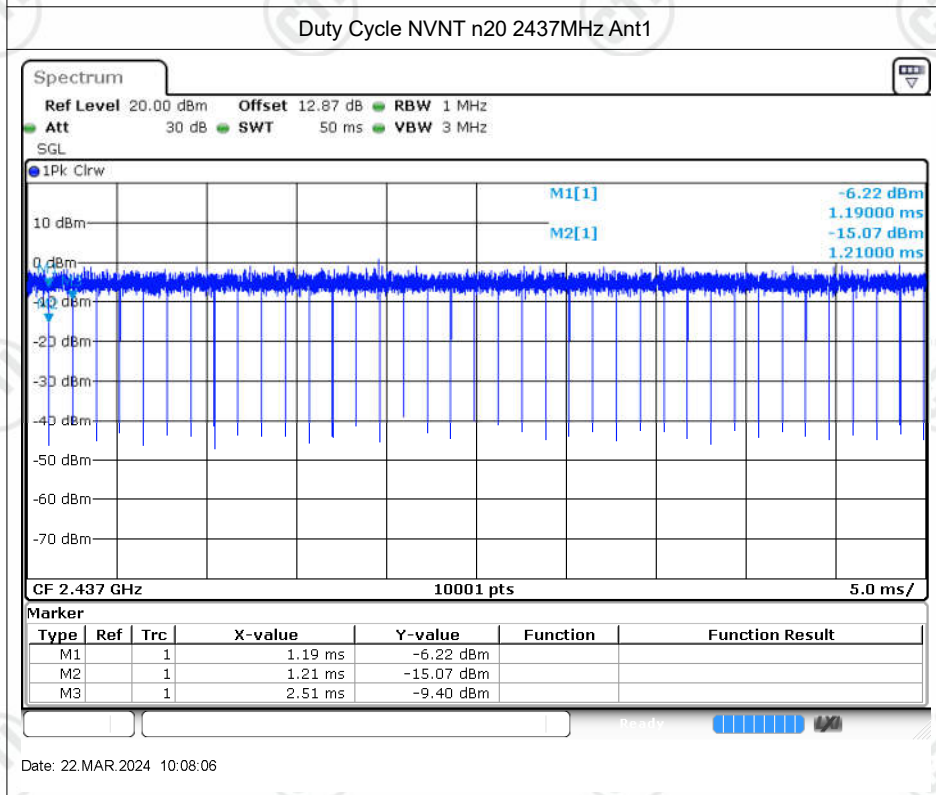
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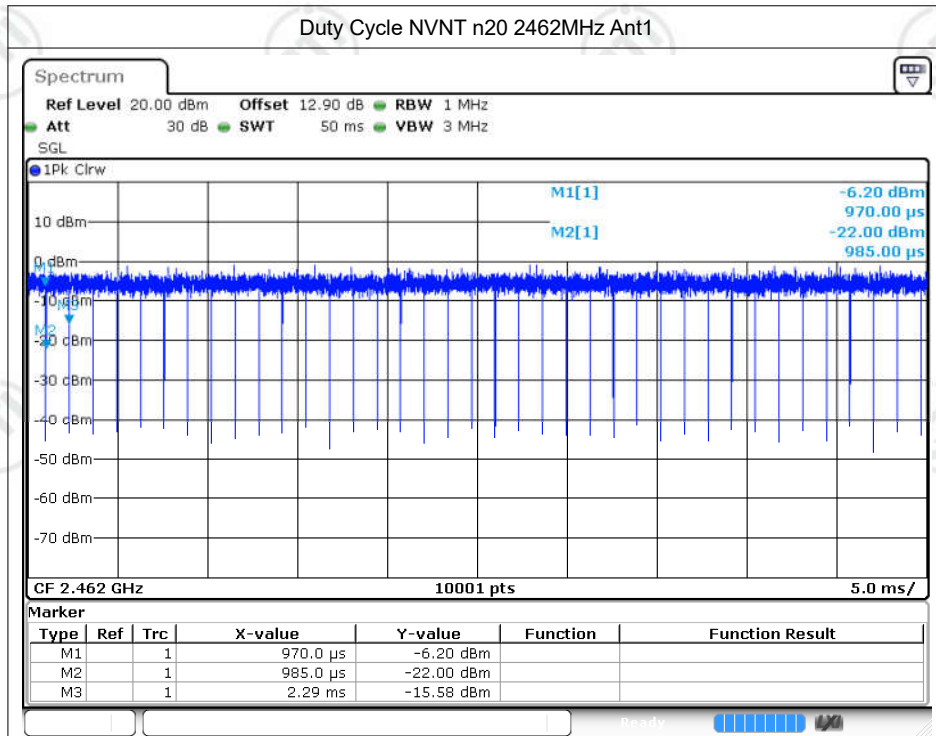
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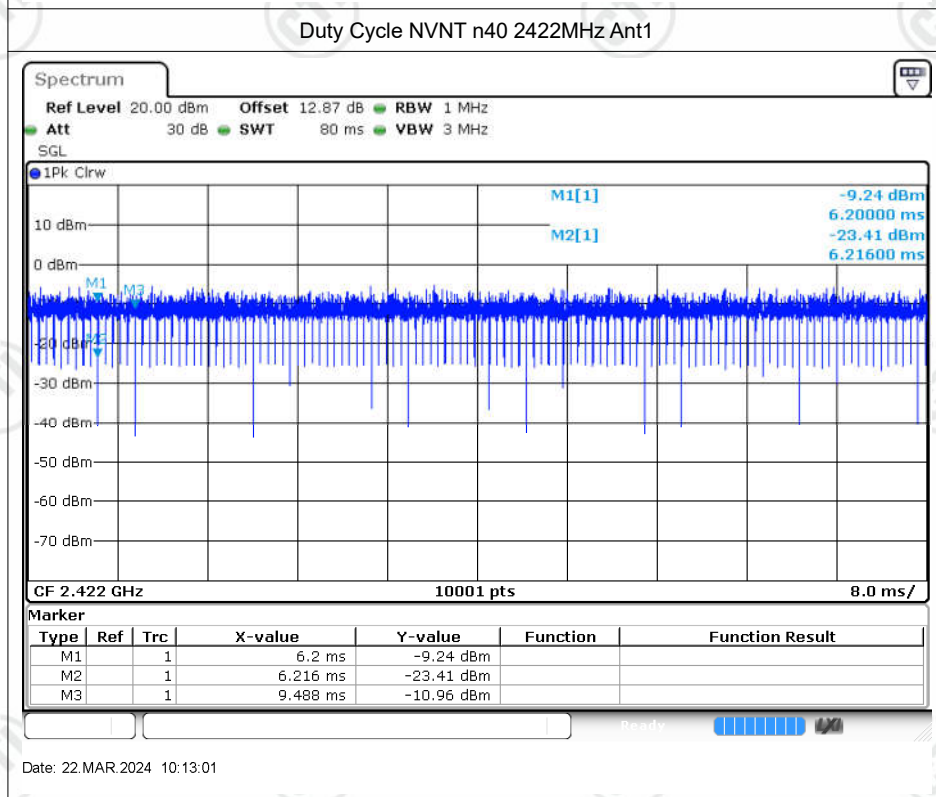
Date: 22.MAR.2024 10:06:03



Date: 22.MAR.2024 10:08:06

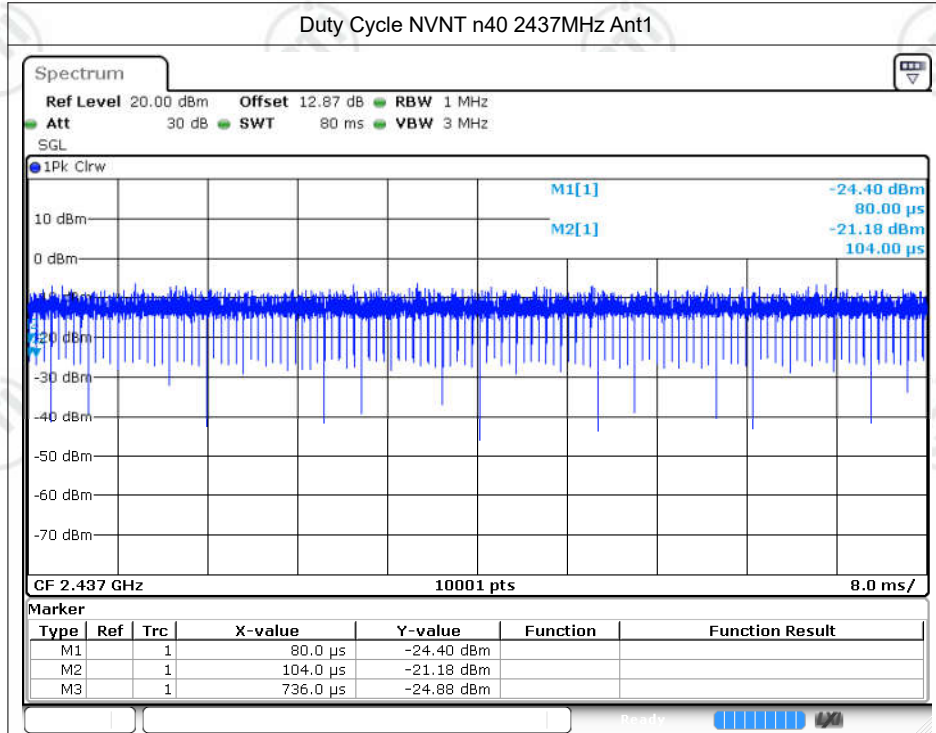


Date: 22.MAR.2024 10:10:02

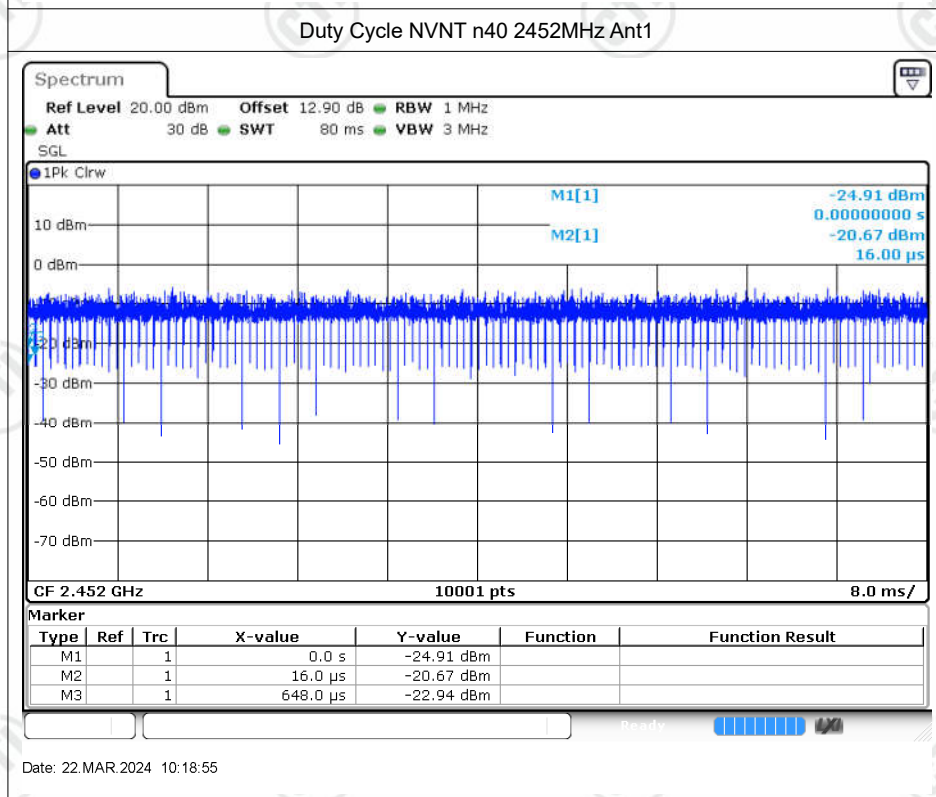


Date: 22.MAR.2024 10:13:01





Date: 22.MAR.2024 10:16:33



Date: 22.MAR.2024 10:18:55

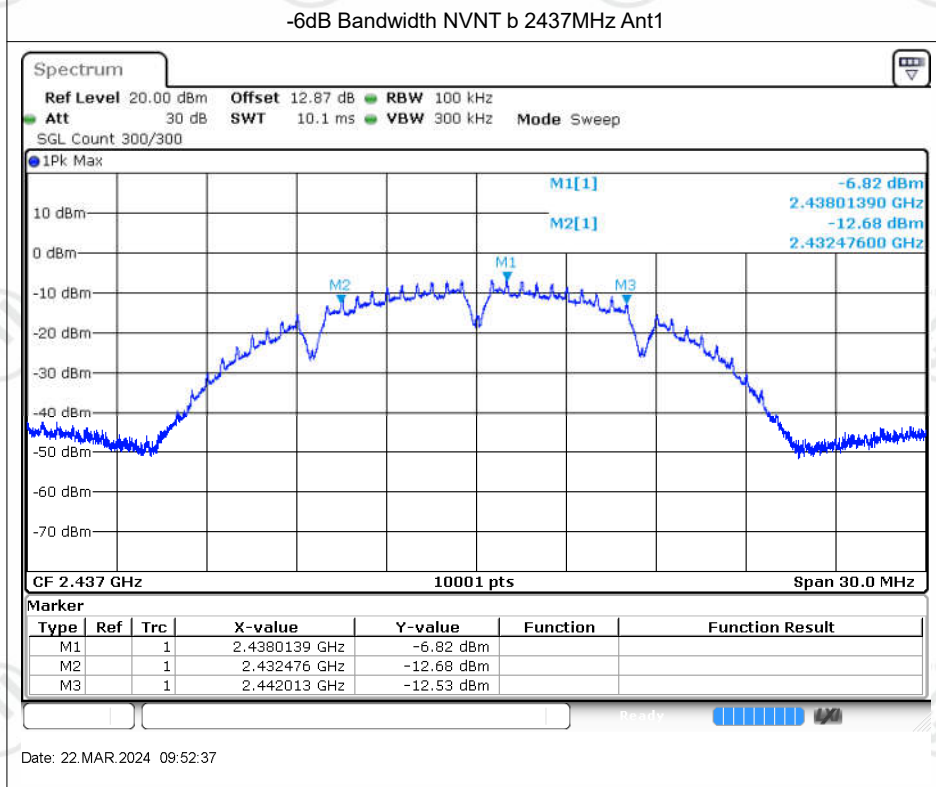
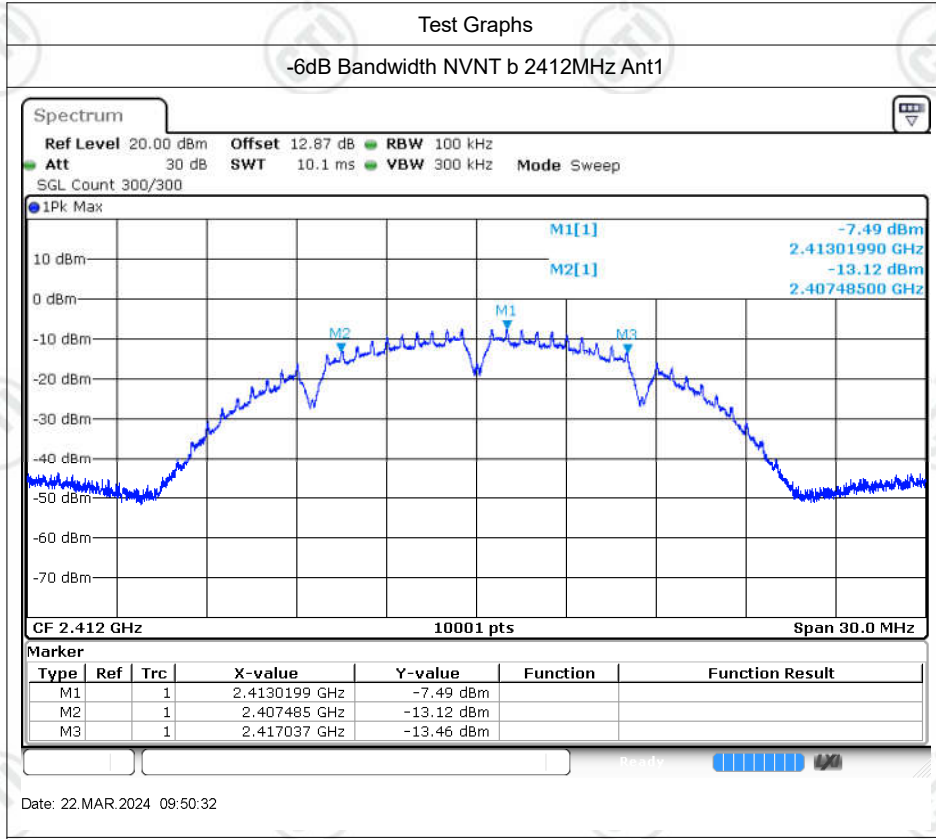
## Maximum Peak Conducted Output Power

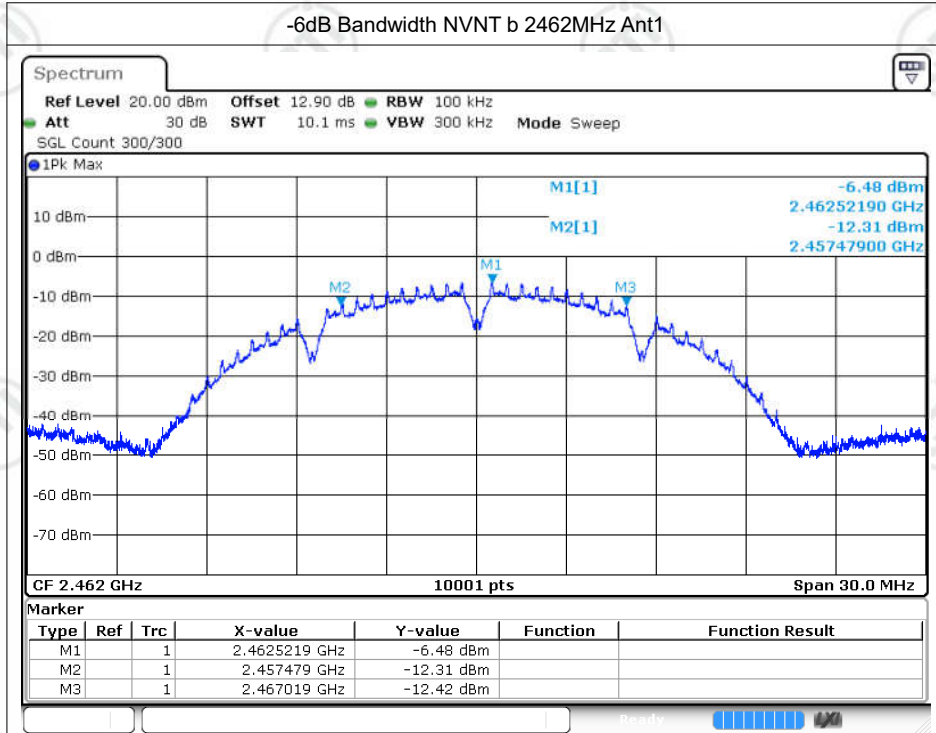
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	3.22	30	Pass
NVNT	b	2437	Ant1	<b>3.88</b>	30	Pass
NVNT	b	2462	Ant1	3.8	30	Pass
NVNT	g	2412	Ant1	3.8	30	Pass
NVNT	g	2437	Ant1	3.52	30	Pass
NVNT	g	2462	Ant1	2.95	30	Pass
NVNT	n20	2412	Ant1	3.73	30	Pass
NVNT	n20	2437	Ant1	3.43	30	Pass
NVNT	n20	2462	Ant1	2.72	30	Pass
NVNT	n40	2422	Ant1	3.36	30	Pass
NVNT	n40	2437	Ant1	2.37	30	Pass
NVNT	n40	2452	Ant1	2.86	30	Pass

Note:Conducted Power has been added Duty Cycle Factor.

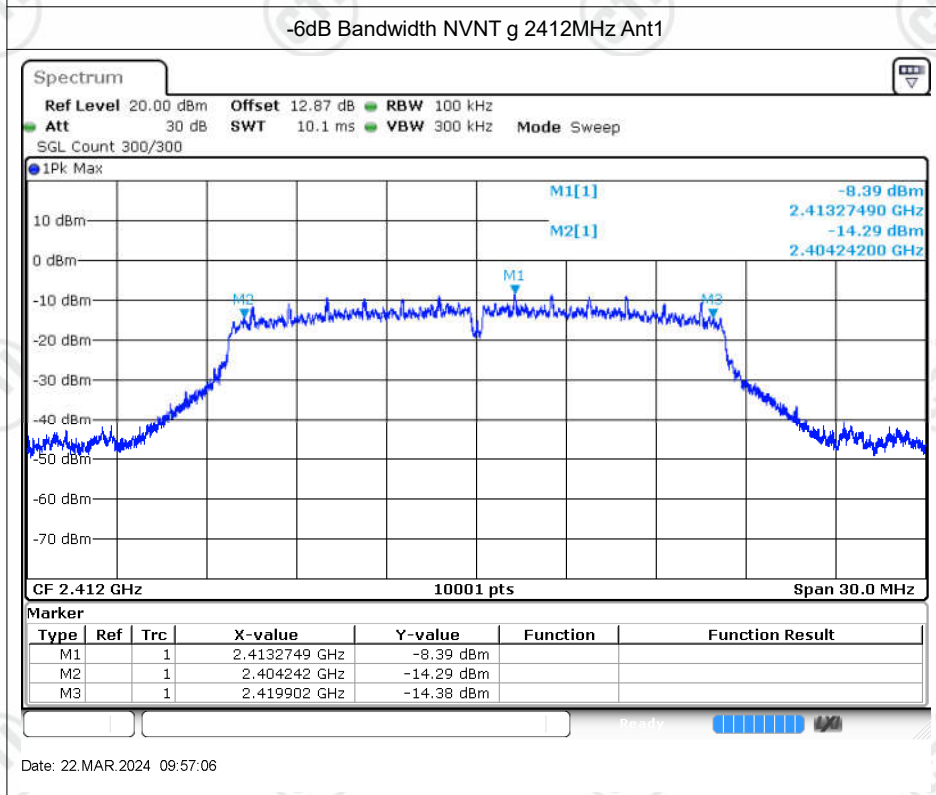
## -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.552	0.5	Pass
NVNT	b	2437	Ant1	9.537	0.5	Pass
NVNT	b	2462	Ant1	9.54	0.5	Pass
NVNT	g	2412	Ant1	15.66	0.5	Pass
NVNT	g	2437	Ant1	15.429	0.5	Pass
NVNT	g	2462	Ant1	15.108	0.5	Pass
NVNT	n20	2412	Ant1	15.933	0.5	Pass
NVNT	n20	2437	Ant1	15.312	0.5	Pass
NVNT	n20	2462	Ant1	15.429	0.5	Pass
NVNT	n40	2422	Ant1	35.28	0.5	Pass
NVNT	n40	2437	Ant1	35.304	0.5	Pass
NVNT	n40	2452	Ant1	35.118	0.5	Pass

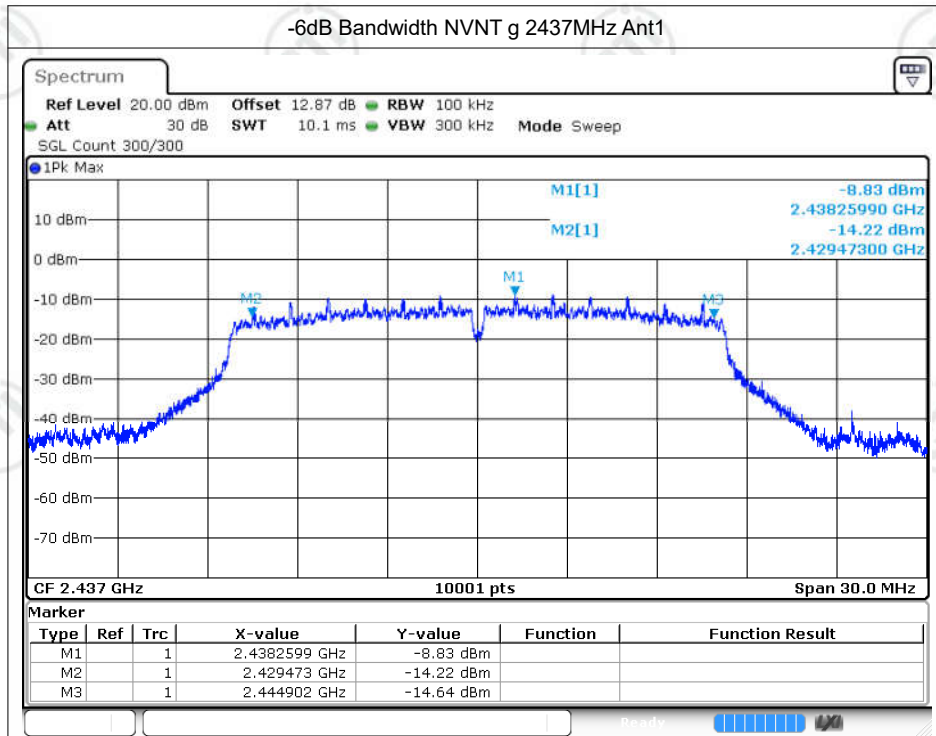




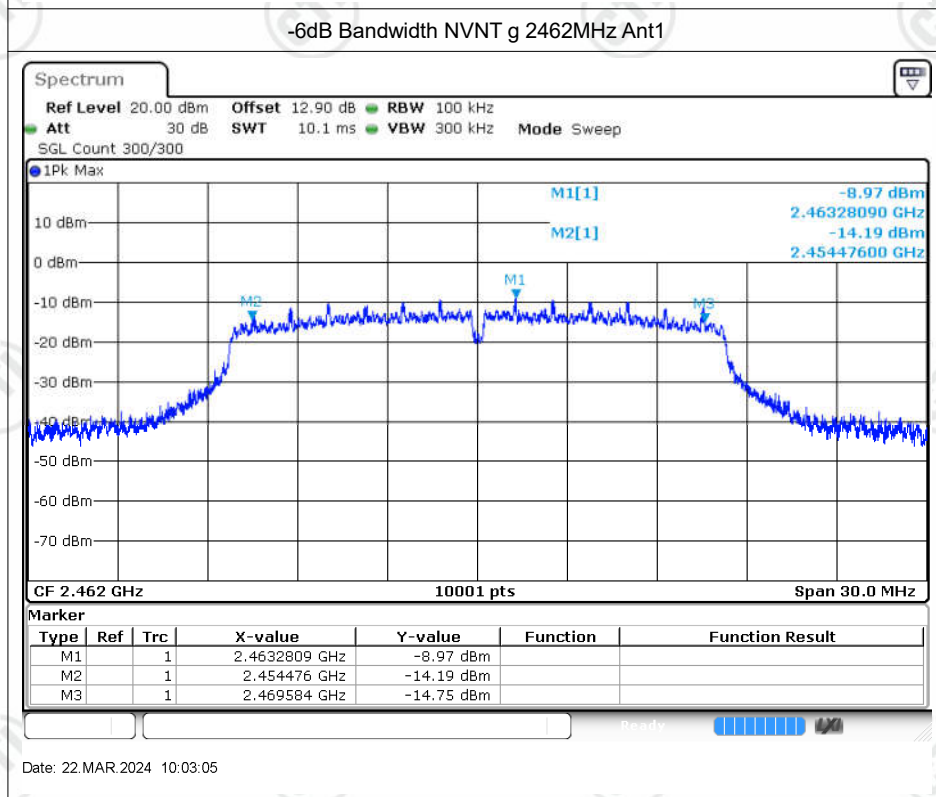
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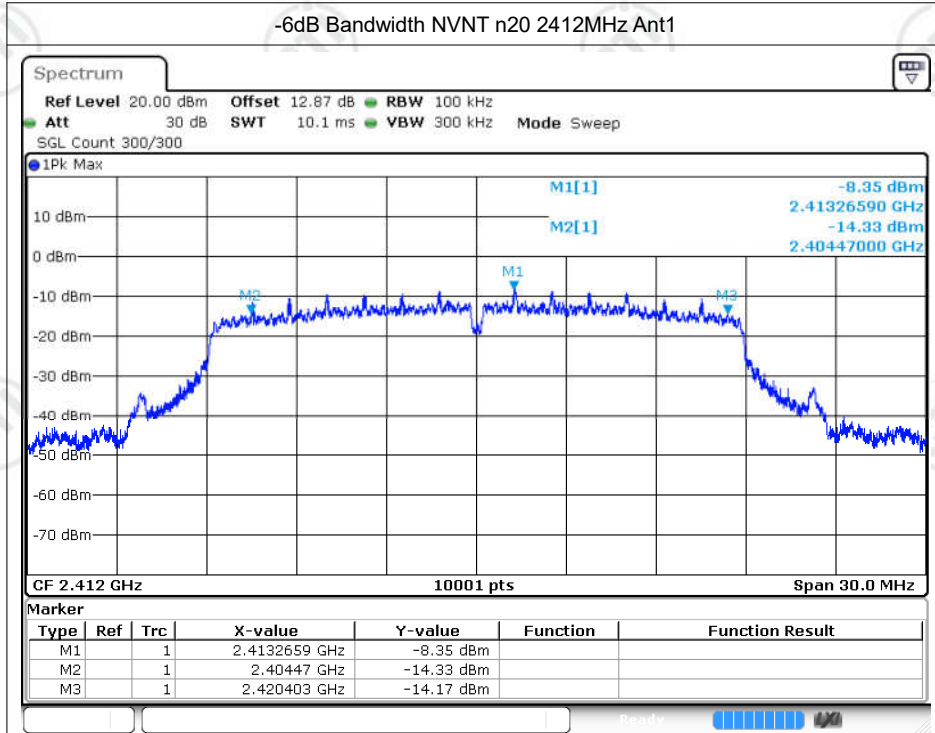
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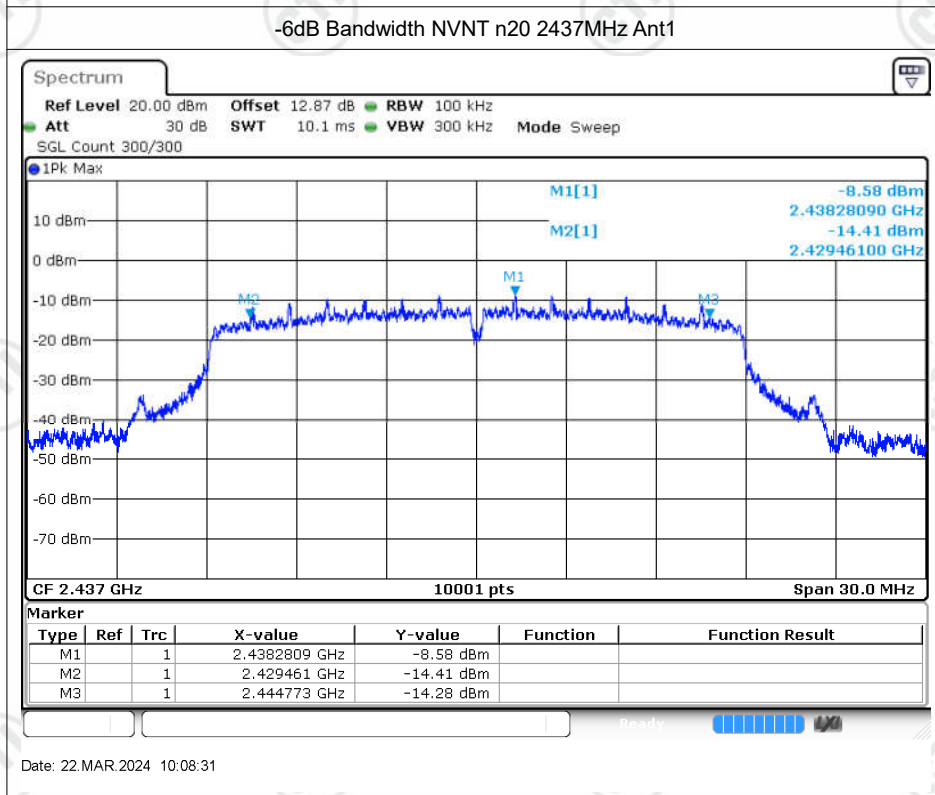
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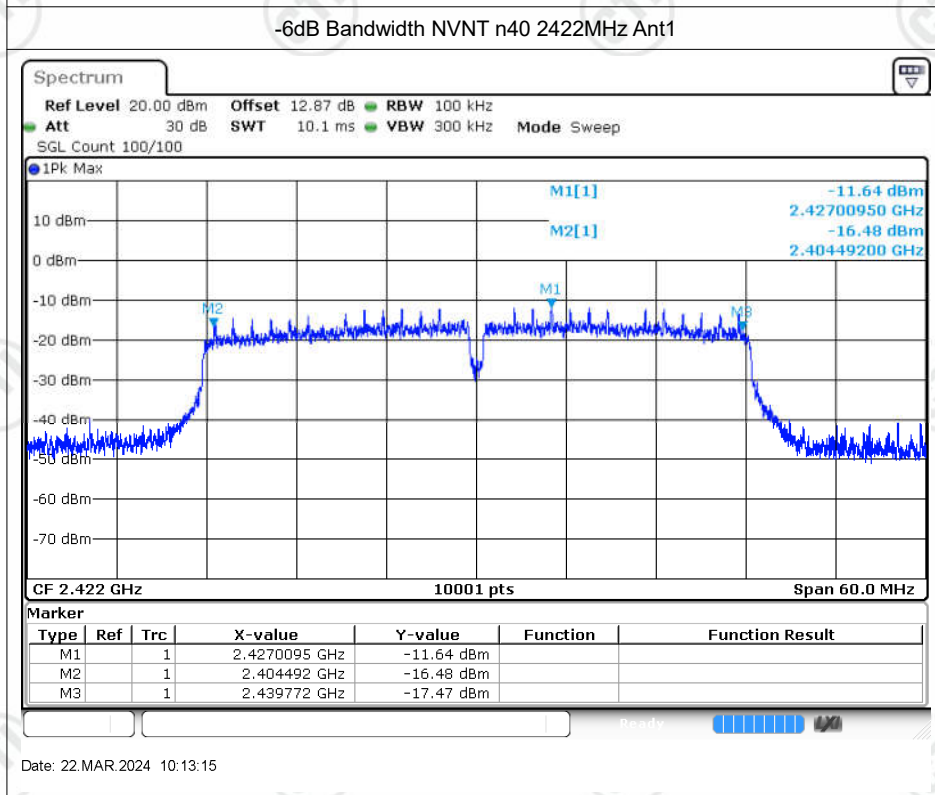
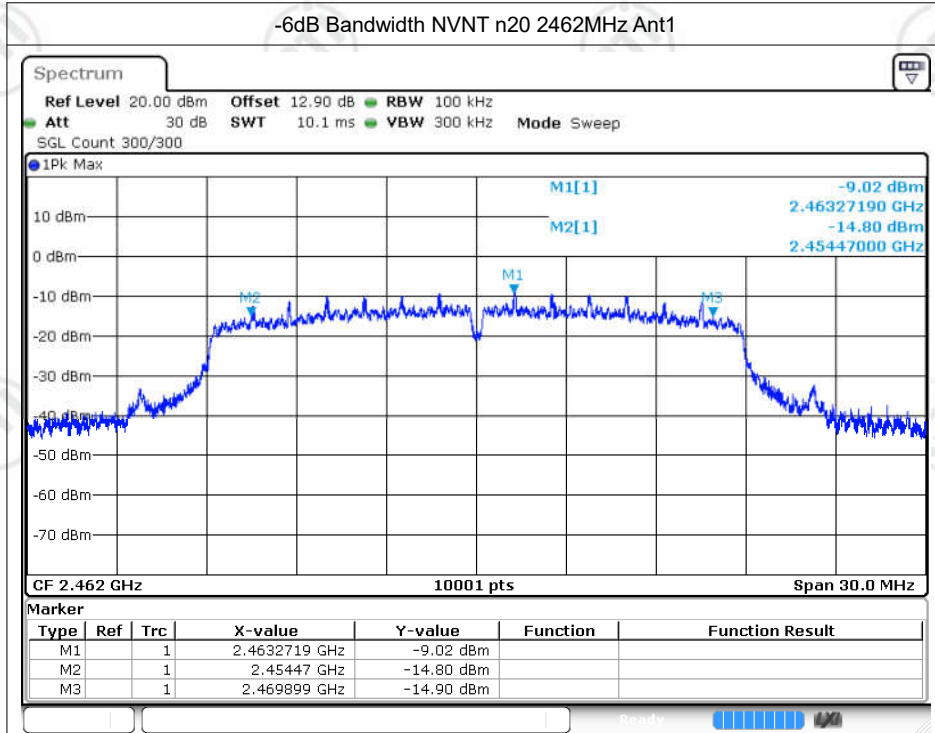
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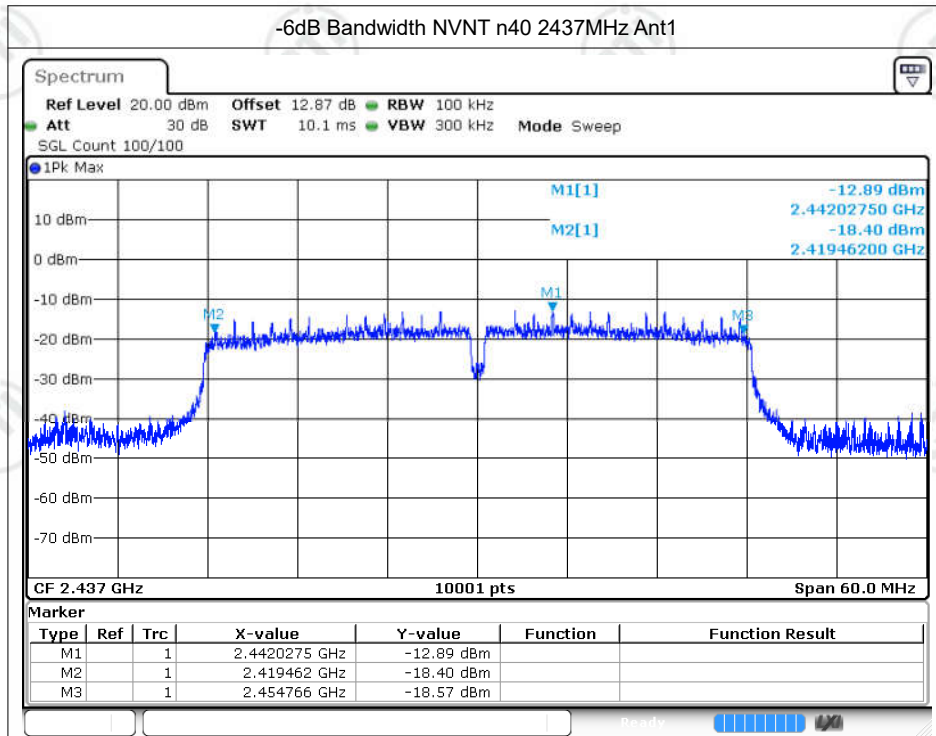
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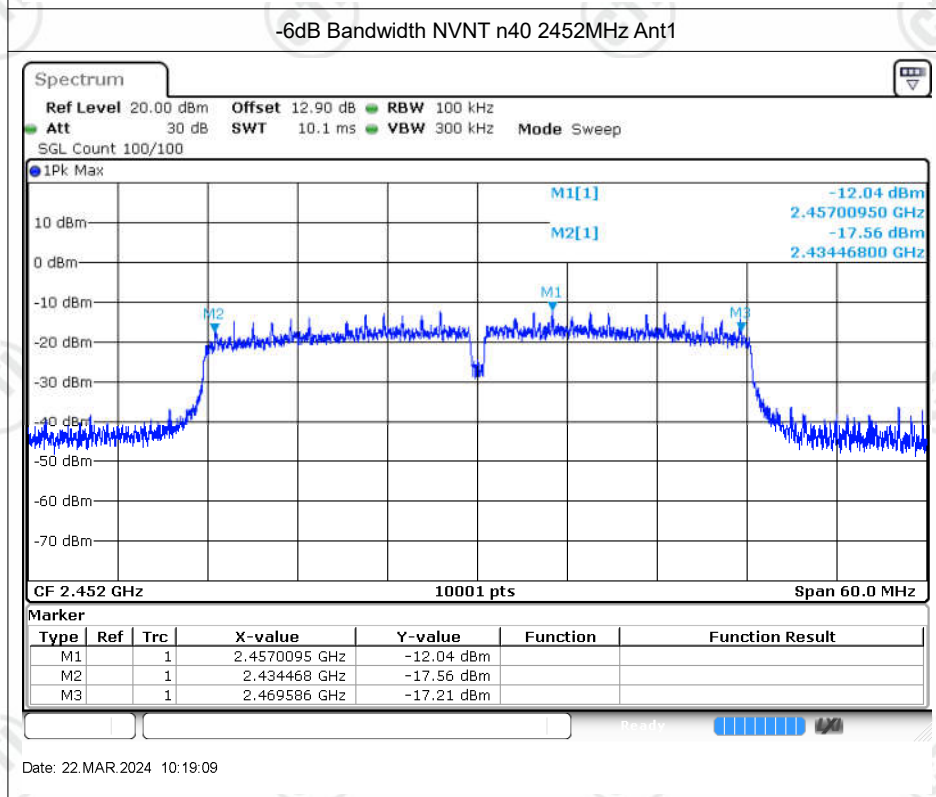
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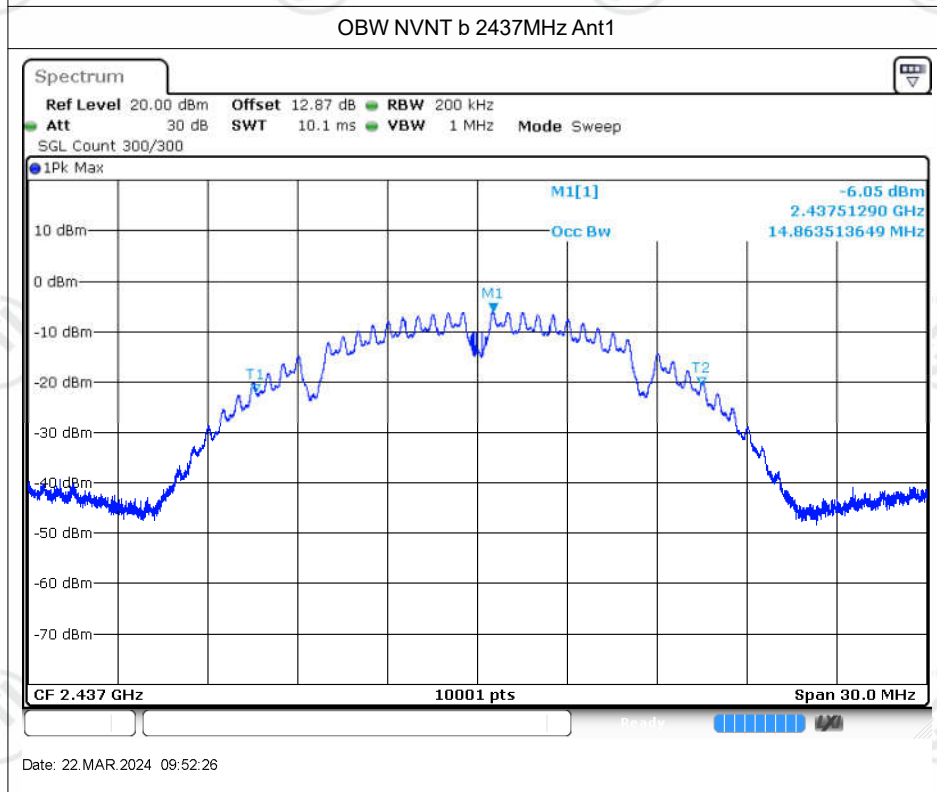
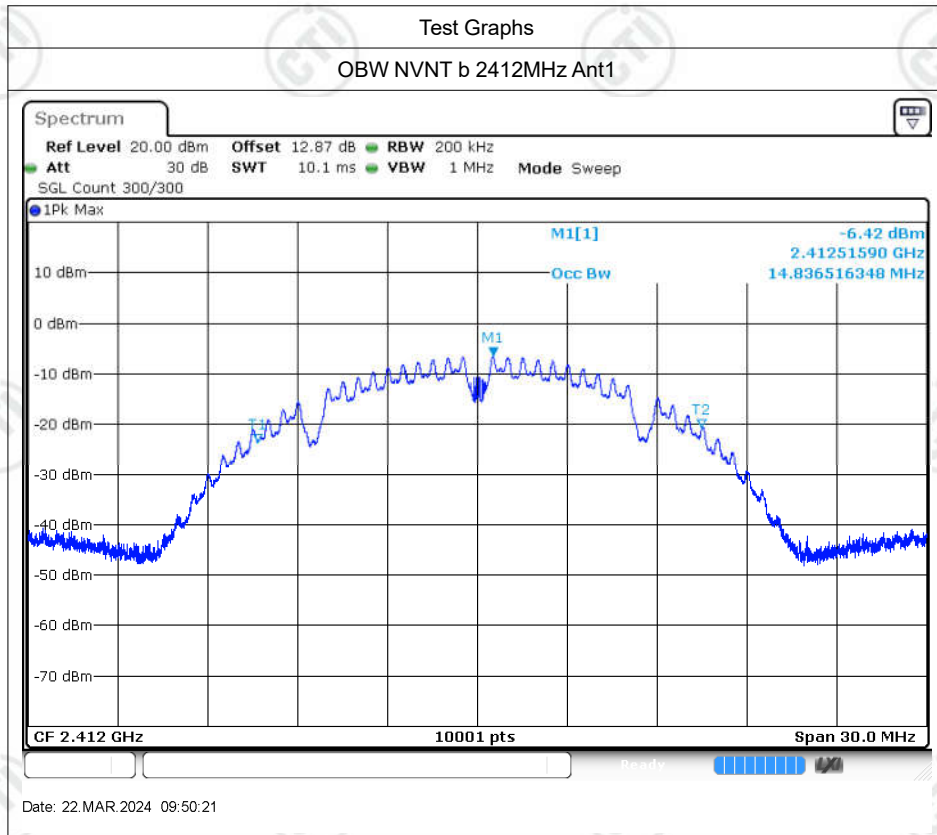
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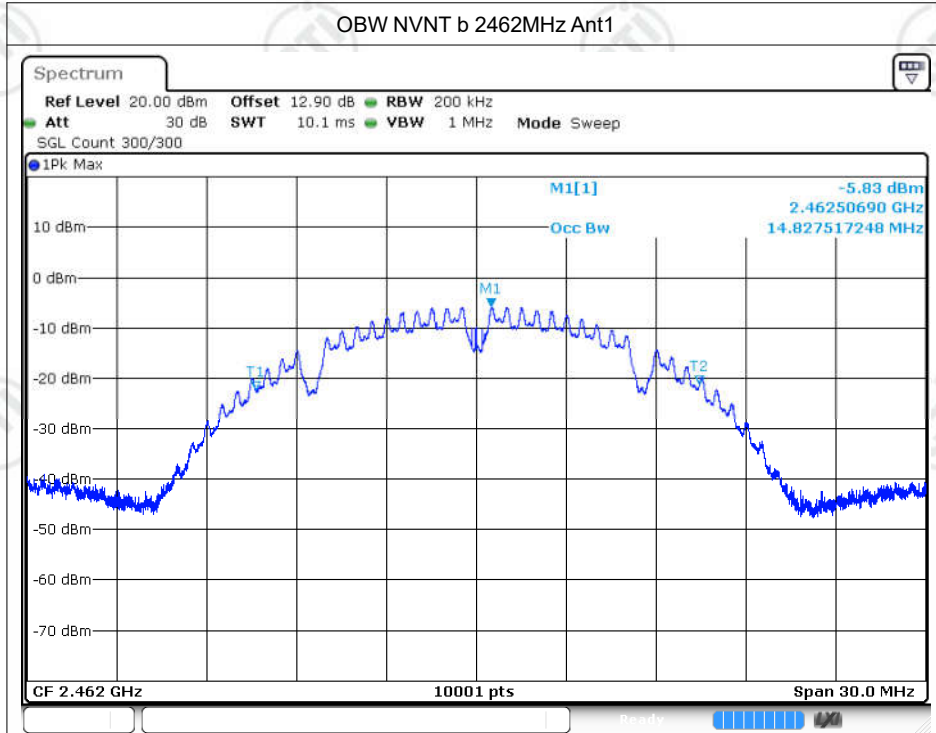


Date: 22.MAR.2024 10:19:09

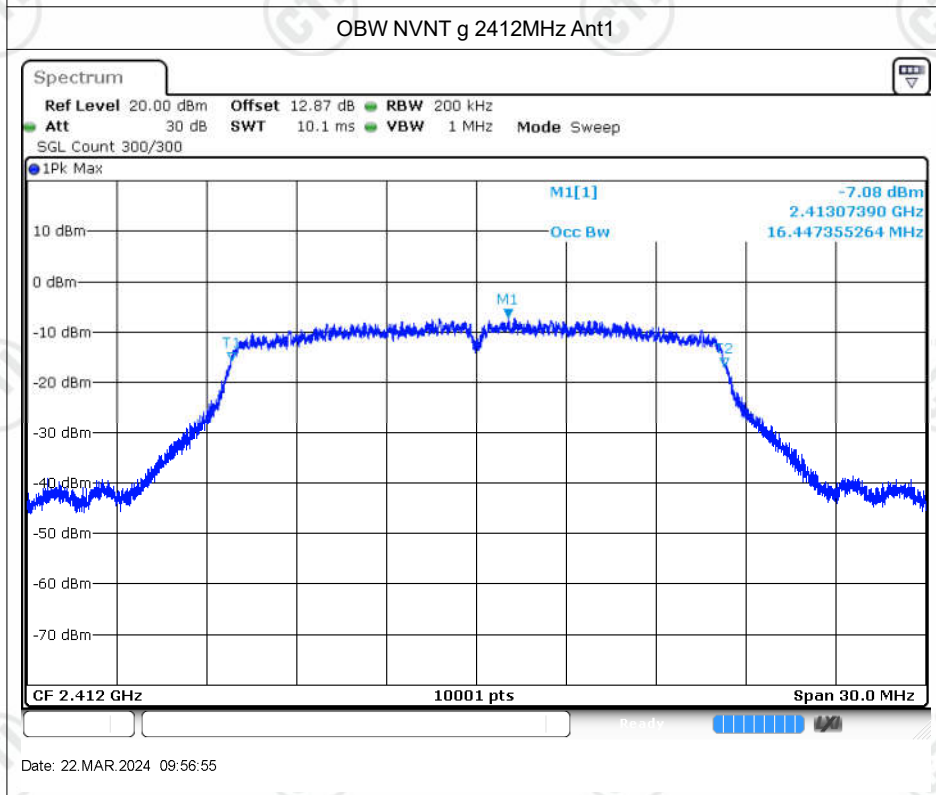
**Occupied Channel Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.837
NVNT	b	2437	Ant1	14.864
NVNT	b	2462	Ant1	14.828
NVNT	g	2412	Ant1	16.447
NVNT	g	2437	Ant1	16.471
NVNT	g	2462	Ant1	16.501
NVNT	n20	2412	Ant1	17.569
NVNT	n20	2437	Ant1	17.566
NVNT	n20	2462	Ant1	17.599
NVNT	n40	2422	Ant1	36.188
NVNT	n40	2437	Ant1	36.284
NVNT	n40	2452	Ant1	36.32

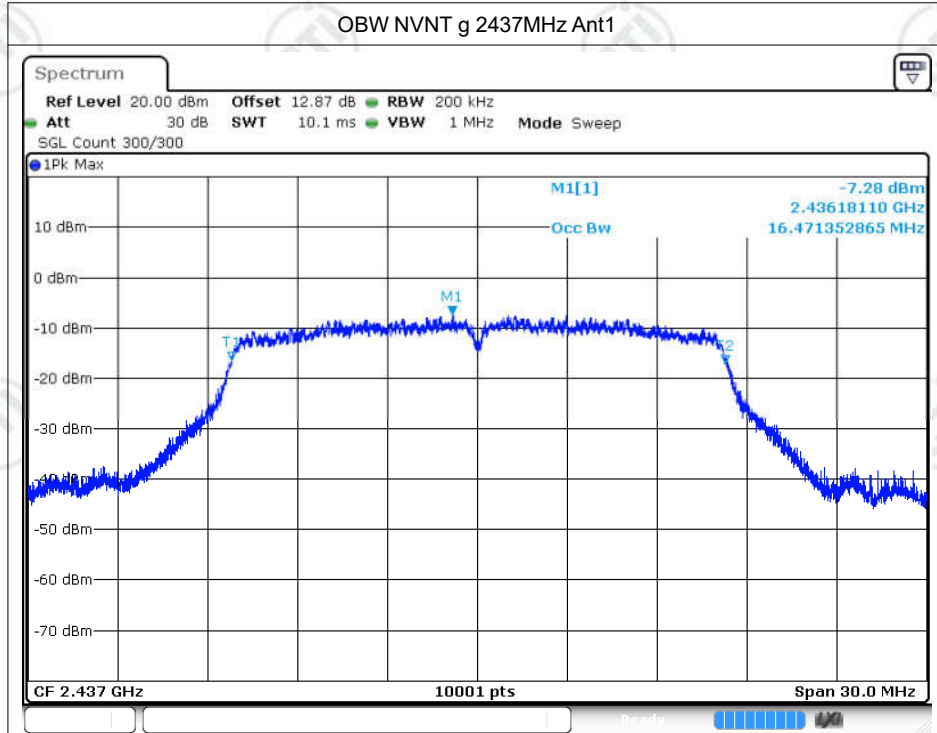




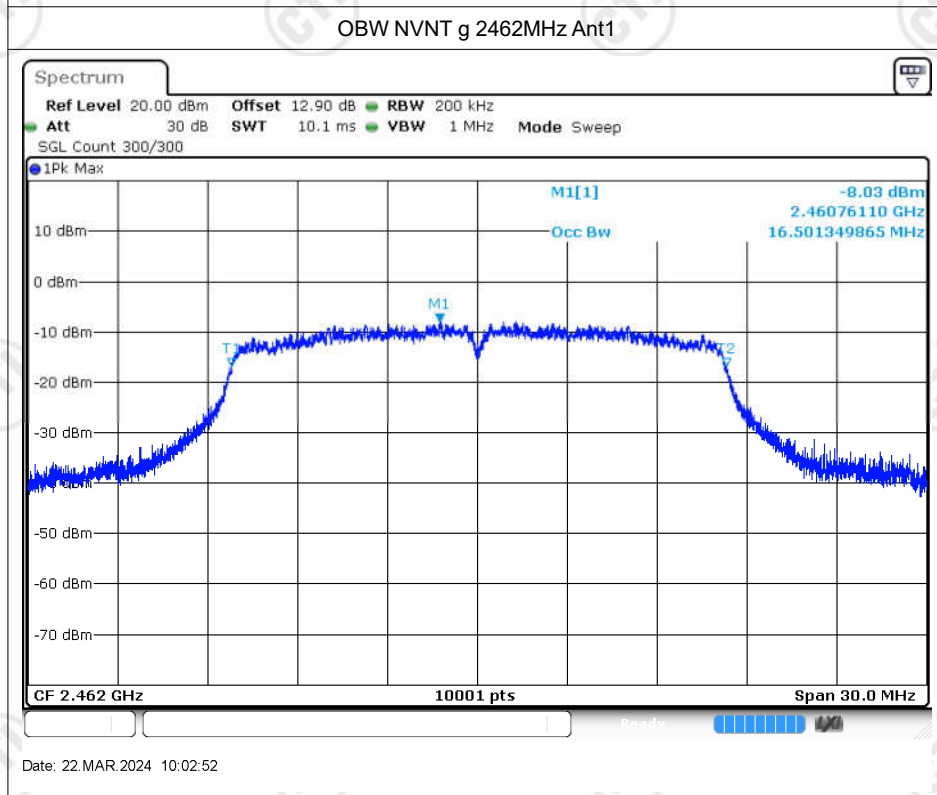
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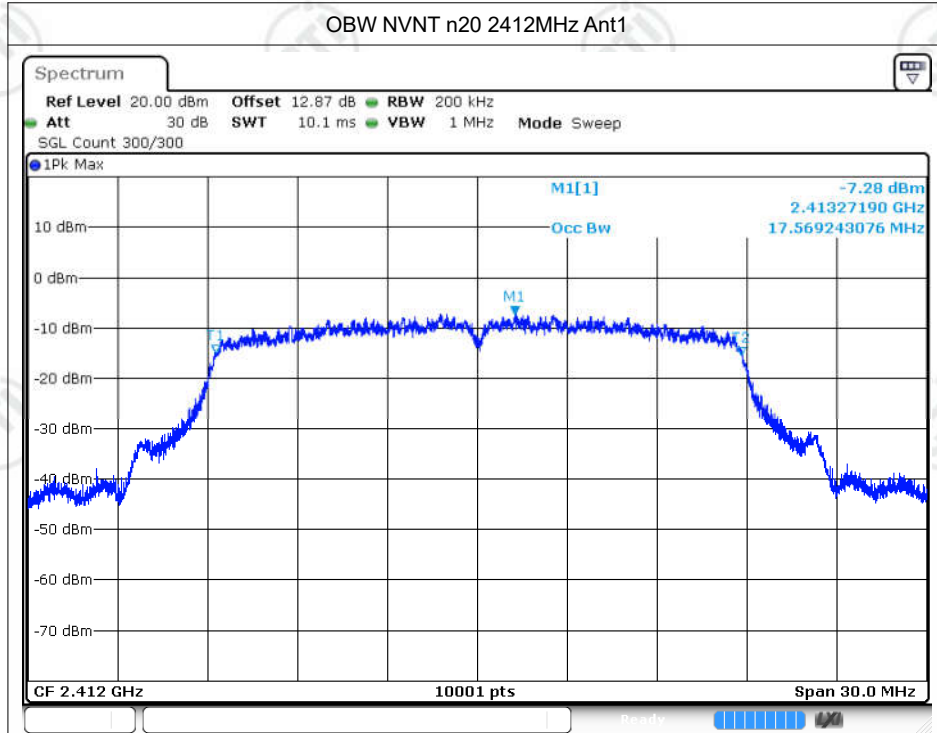
Date: 22.MAR.2024 09:58:55



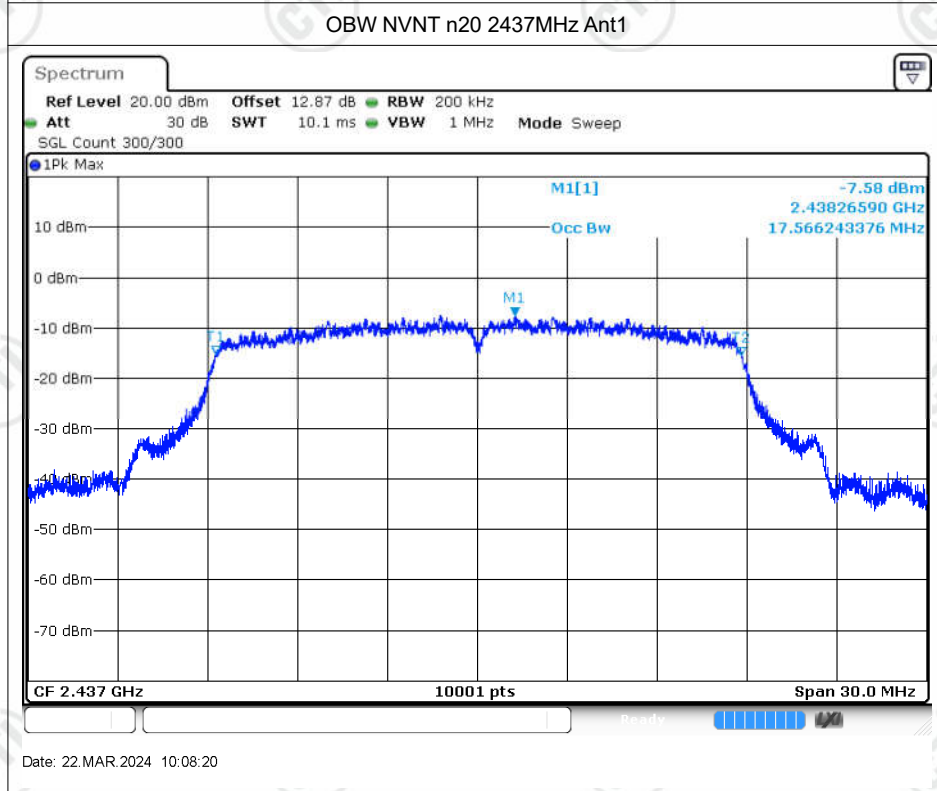
Date: 22.MAR.2024 10:00:02



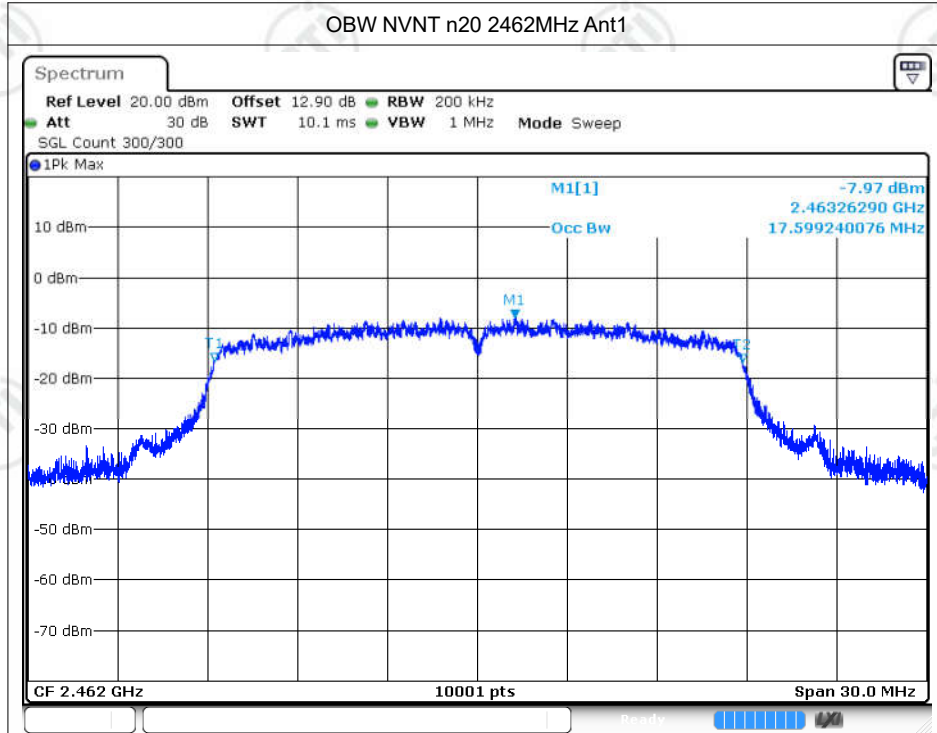
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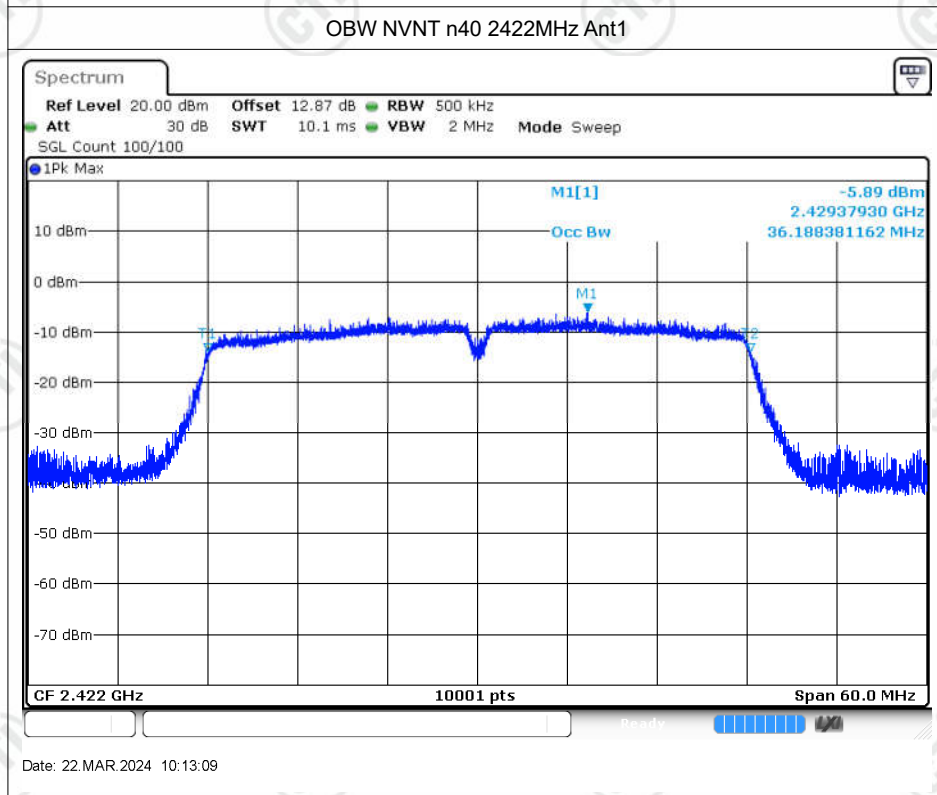
Date: 22.MAR.2024 10:06:16



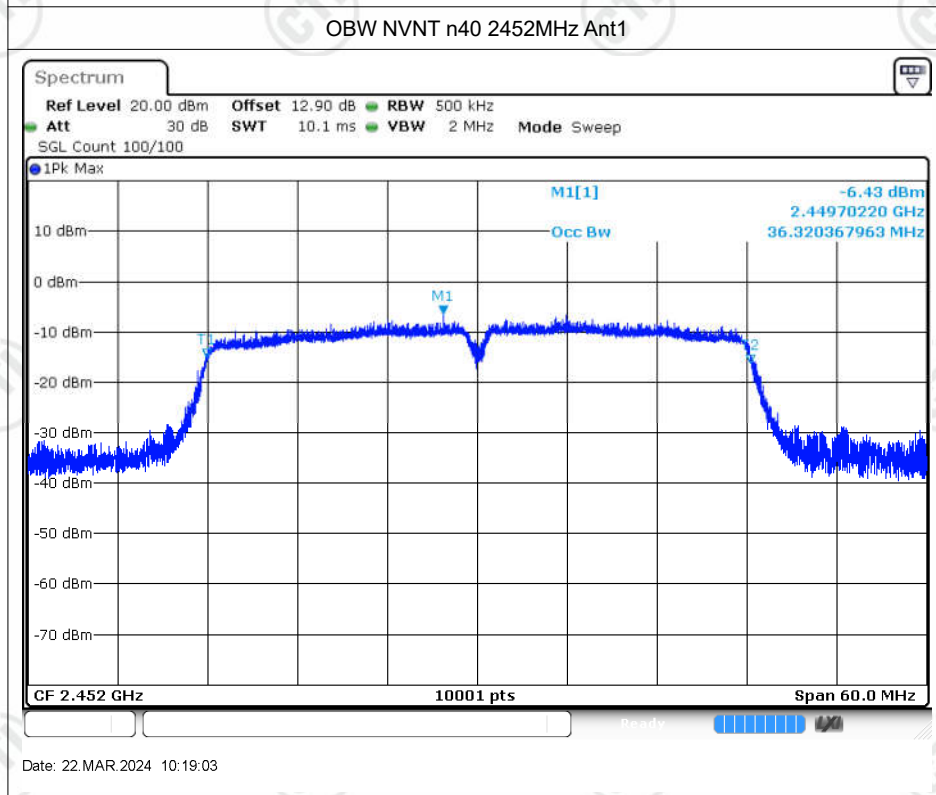
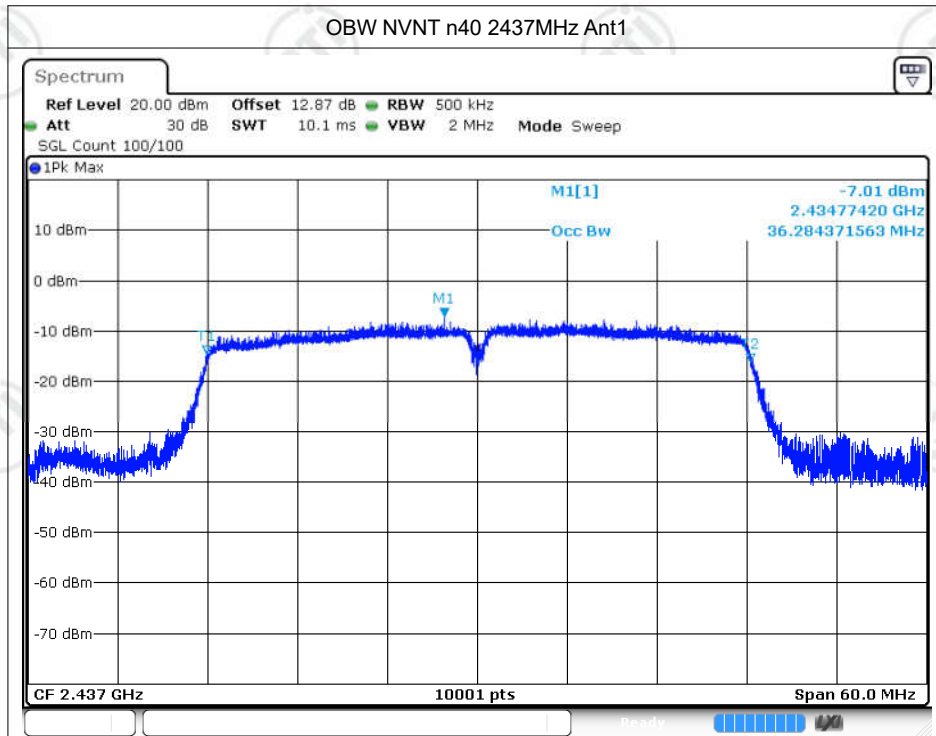
Date: 22.MAR.2024 10:08:20



Date: 22.MAR.2024 10:10:16



Date: 22.MAR.2024 10:13:09

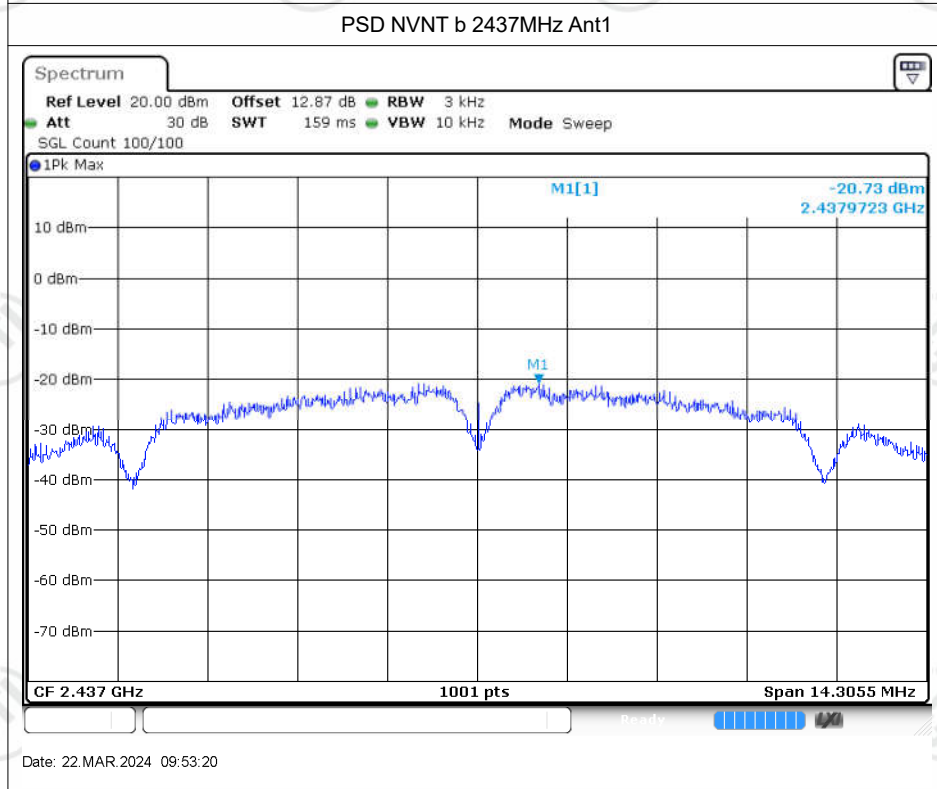
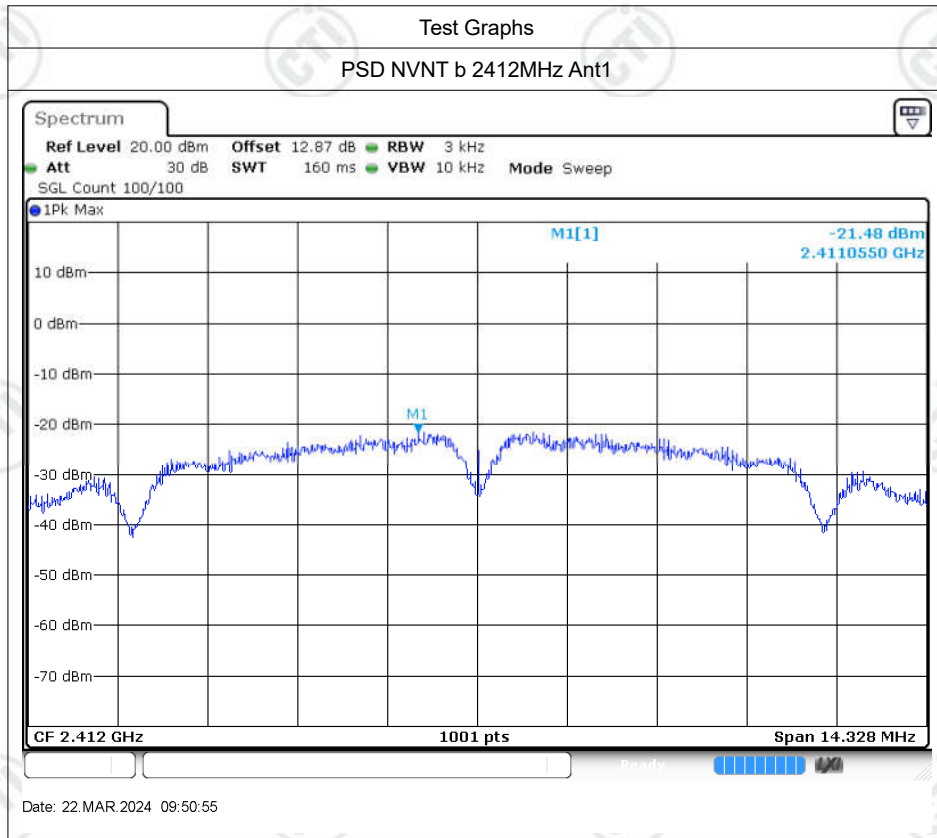


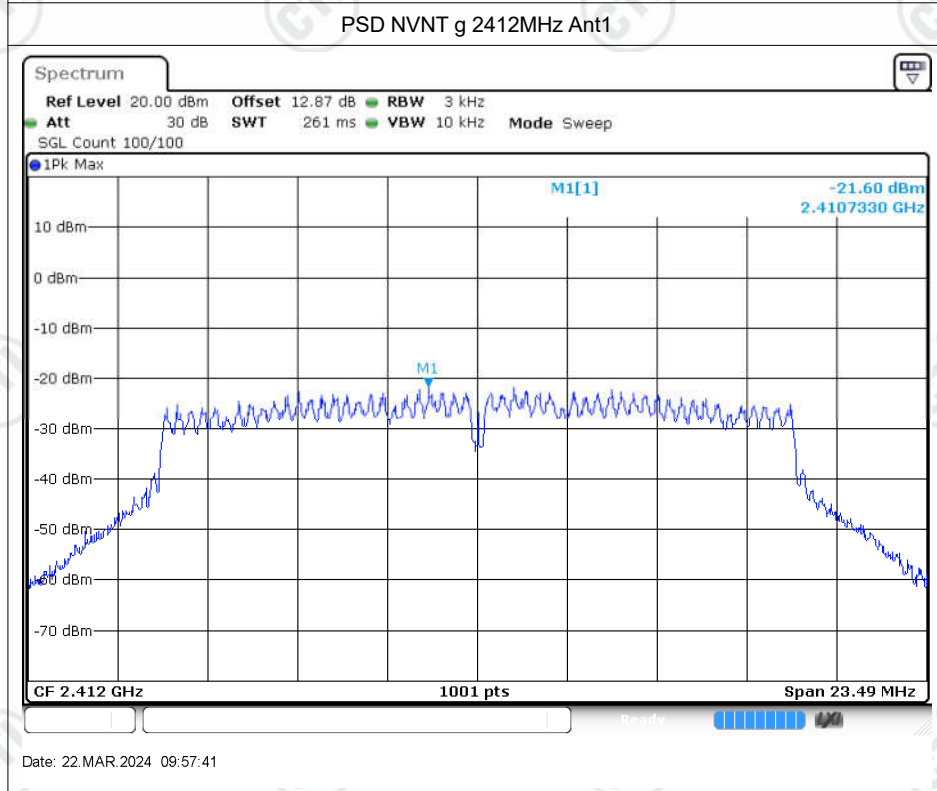
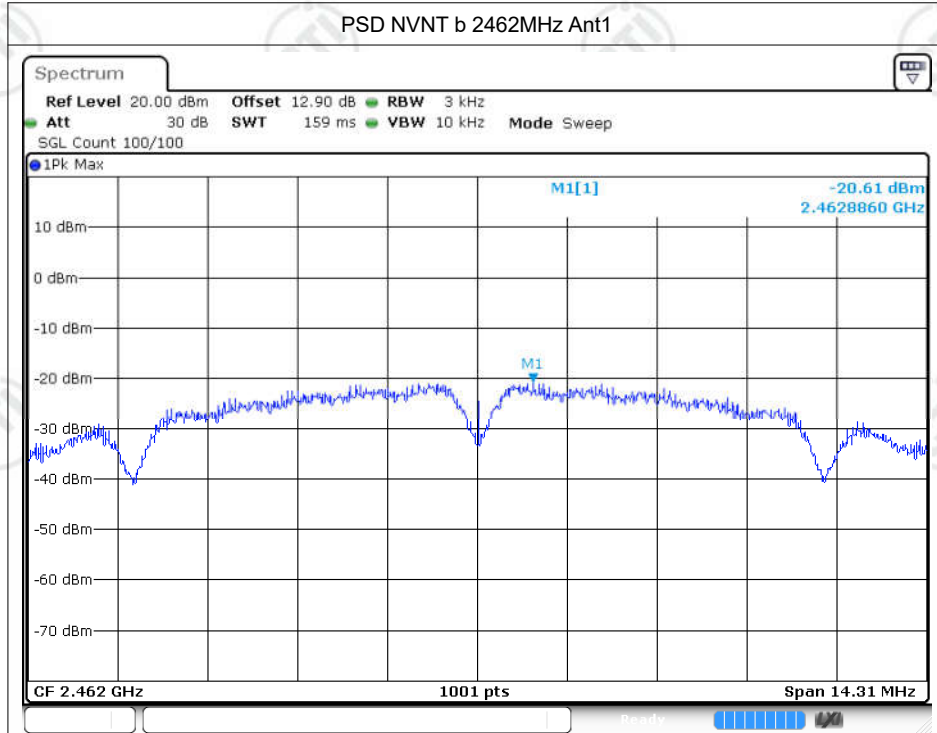


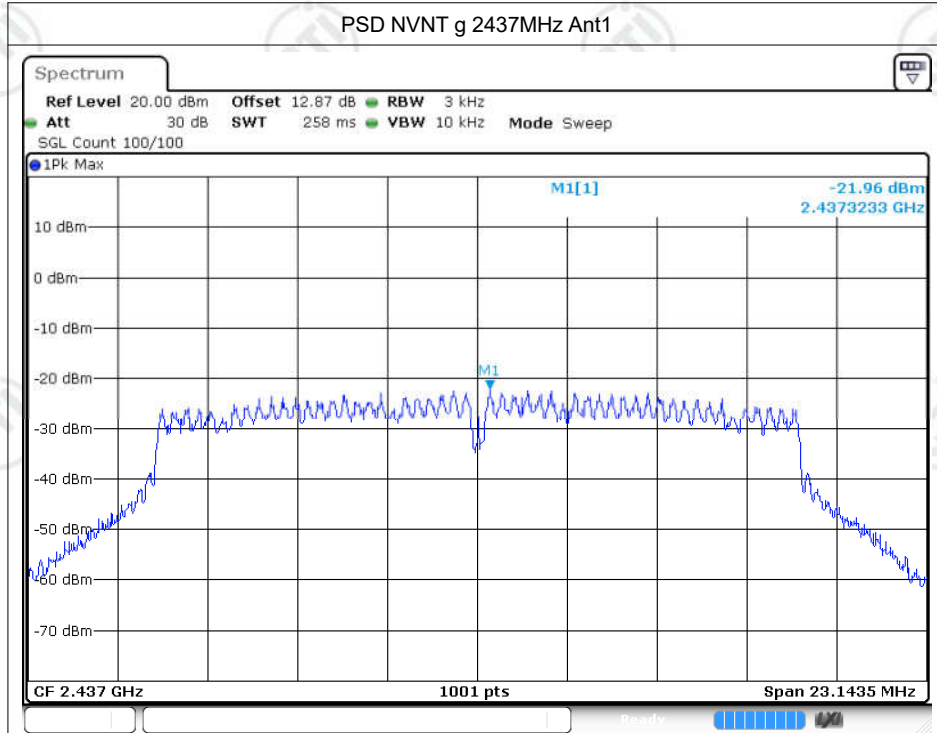
### Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-21.48	8	Pass
NVNT	b	2437	Ant1	-20.73	8	Pass
NVNT	b	2462	Ant1	-20.61	8	Pass
NVNT	g	2412	Ant1	-21.6	8	Pass
NVNT	g	2437	Ant1	-21.96	8	Pass
NVNT	g	2462	Ant1	-22.84	8	Pass
NVNT	n20	2412	Ant1	-22.42	8	Pass
NVNT	n20	2437	Ant1	-20.49	8	Pass
NVNT	n20	2462	Ant1	-22.69	8	Pass
NVNT	n40	2422	Ant1	-25.28	8	Pass
NVNT	n40	2437	Ant1	-24.14	8	Pass
NVNT	n40	2452	Ant1	-25.47	8	Pass

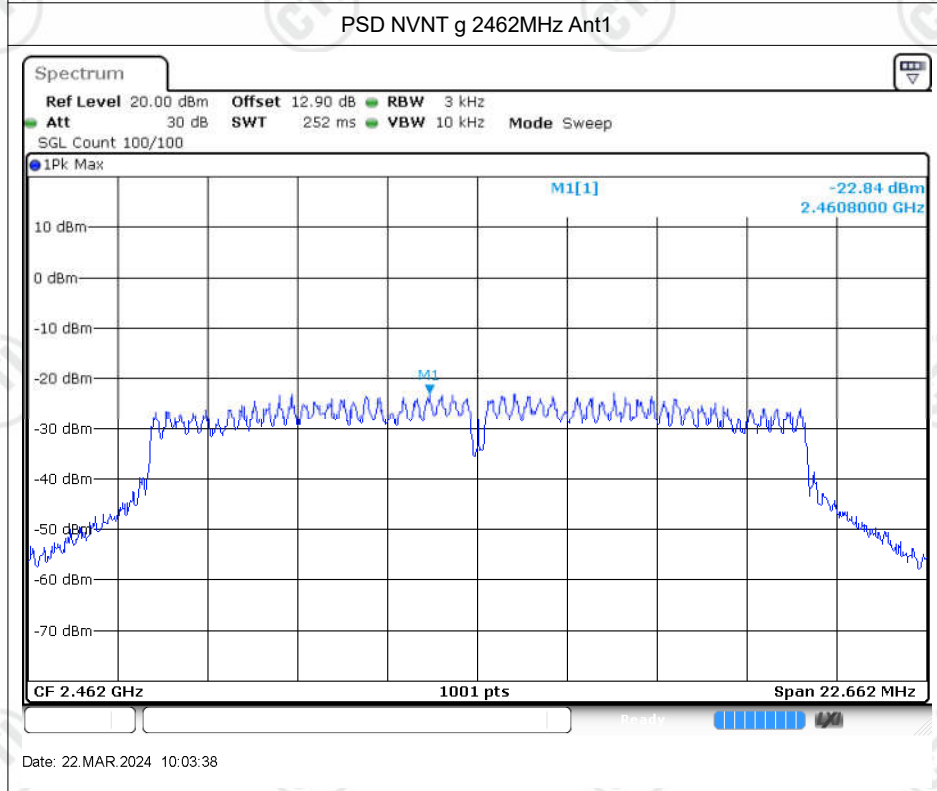
Note:Conducted PSD has been added Duty Cycle Factor.



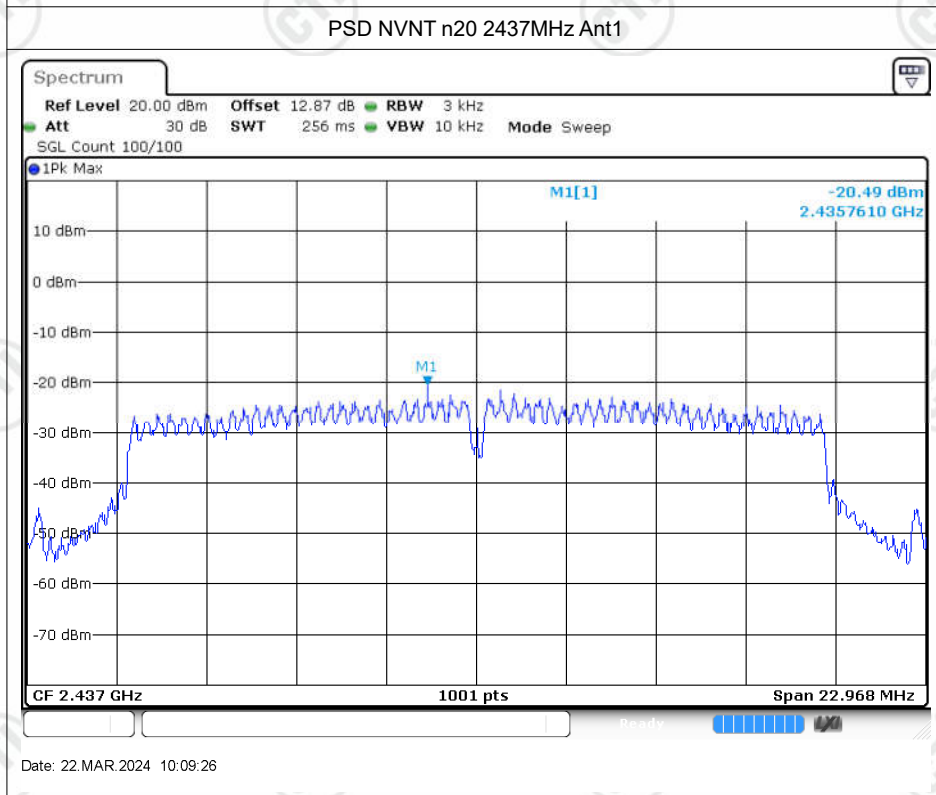
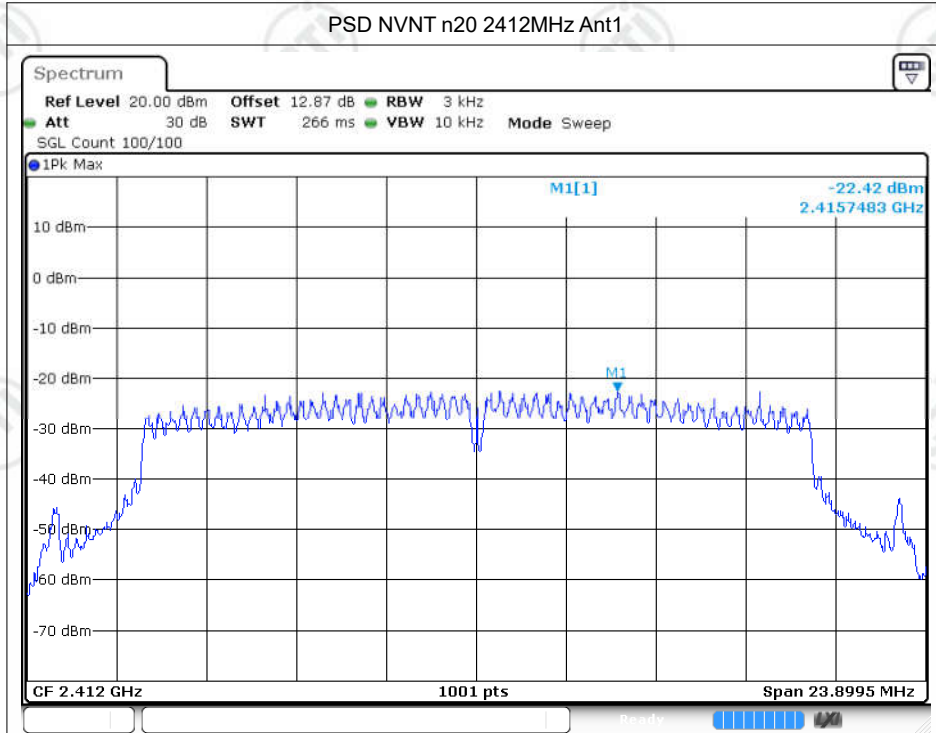


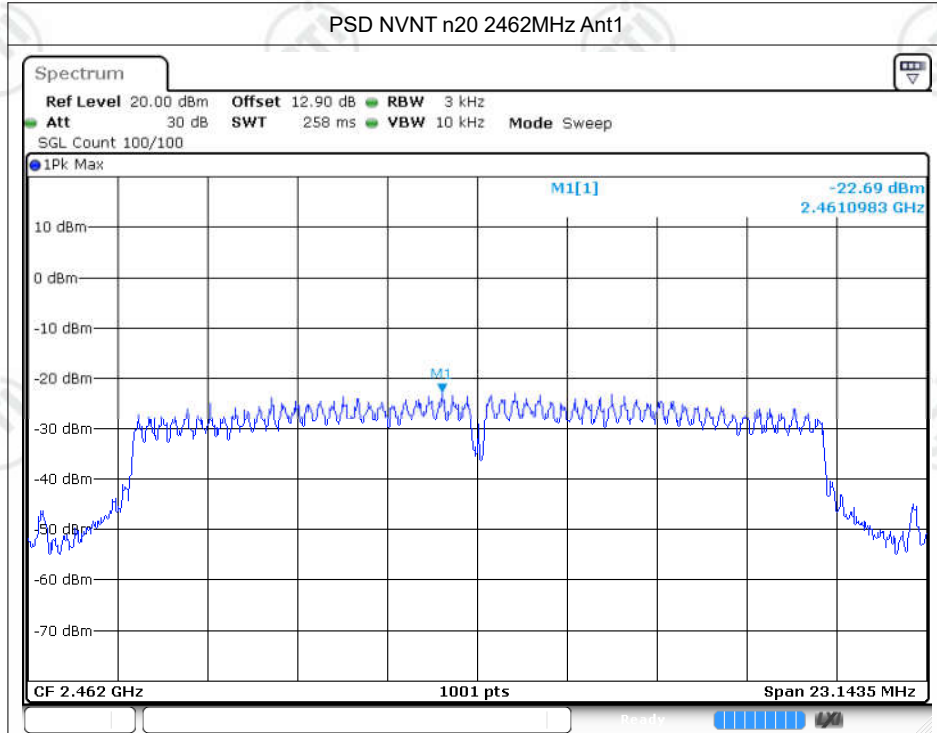


Date: 22.MAR.2024 10:01:09

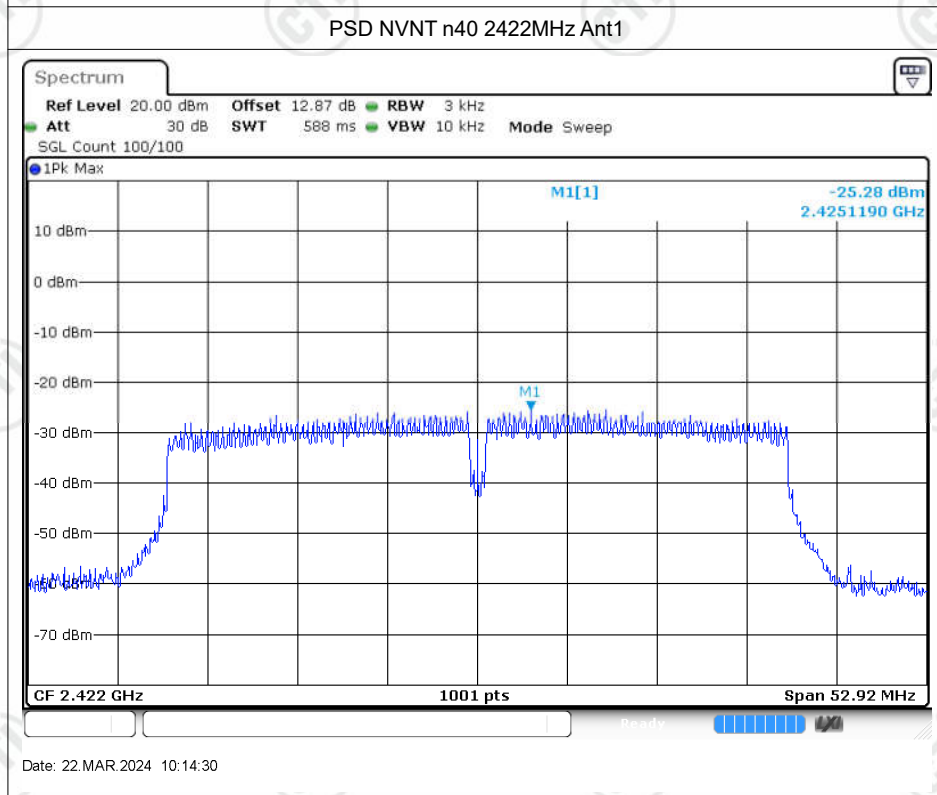


Date: 22.MAR.2024 10:03:38

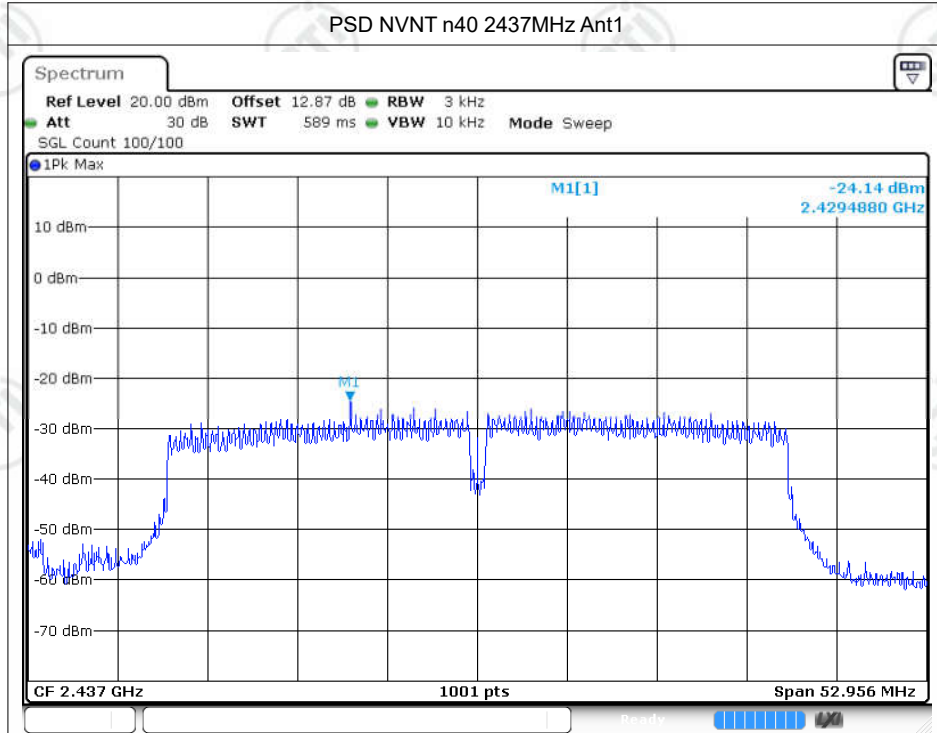




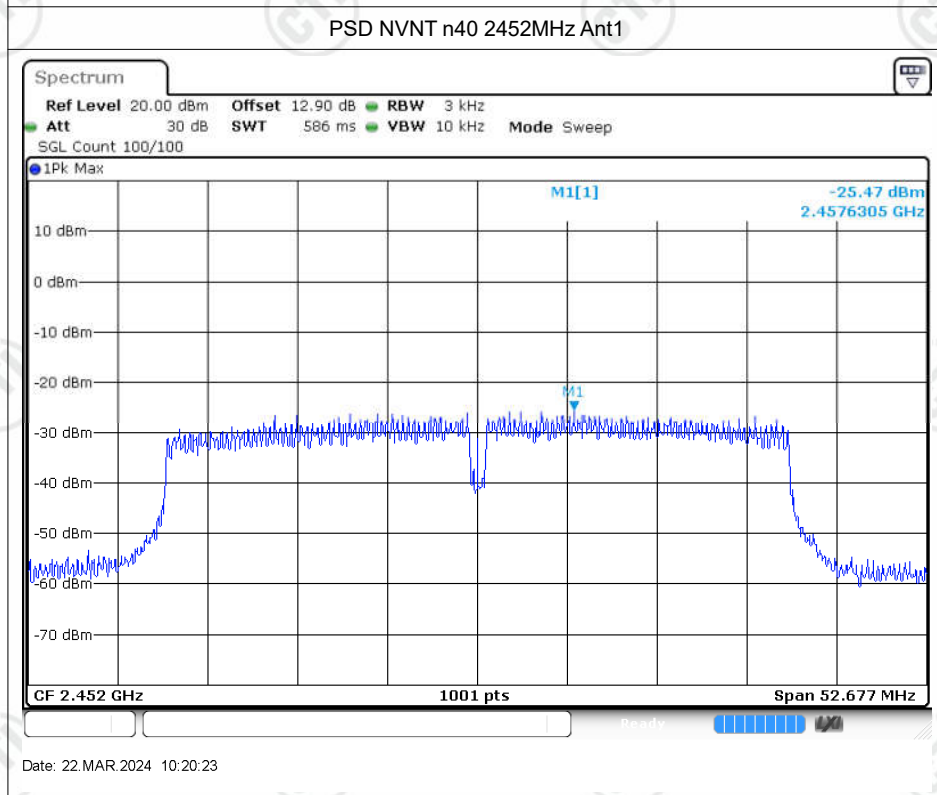
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Date: 22.MAR.2024 10:14:30



Date: 22.MAR.2024 10:18:02

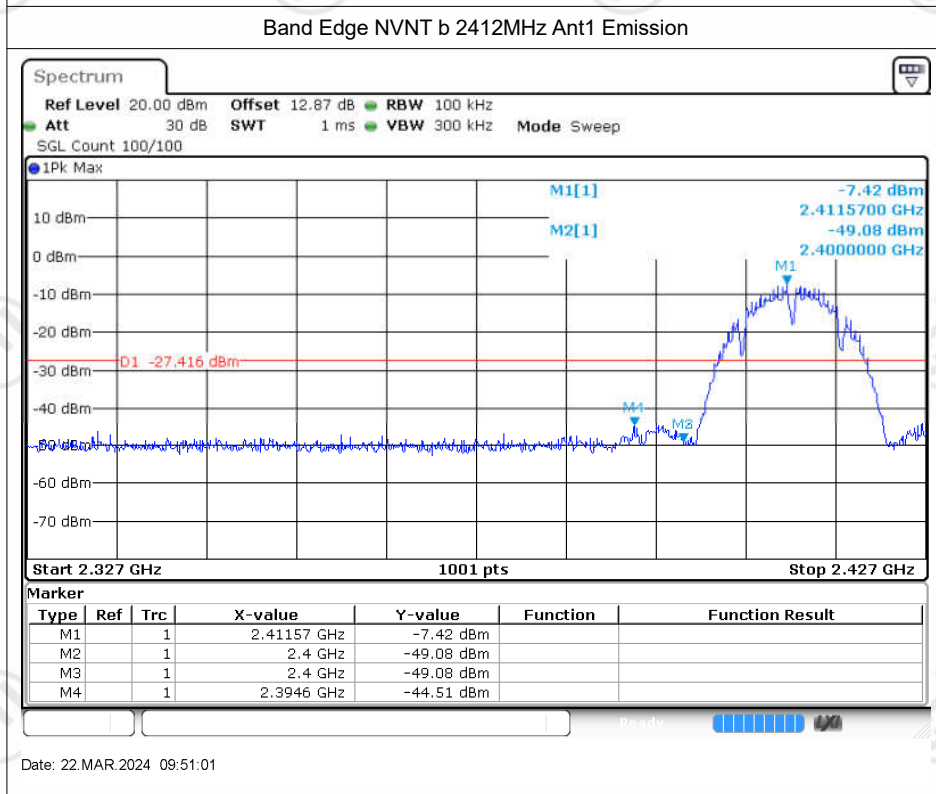
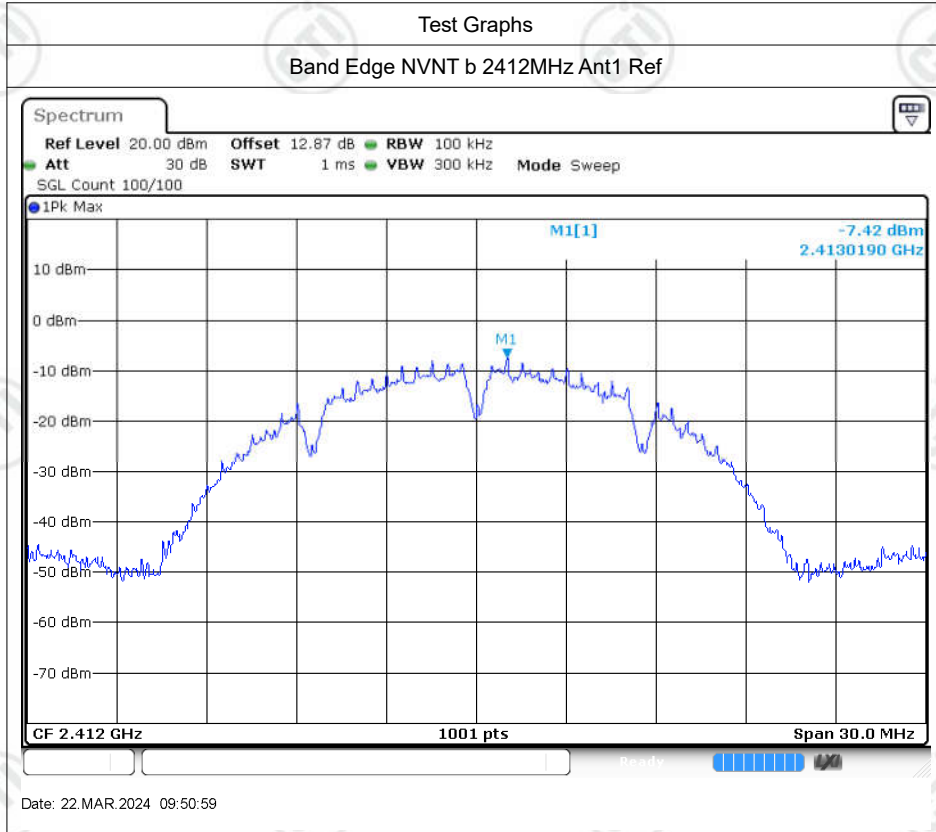


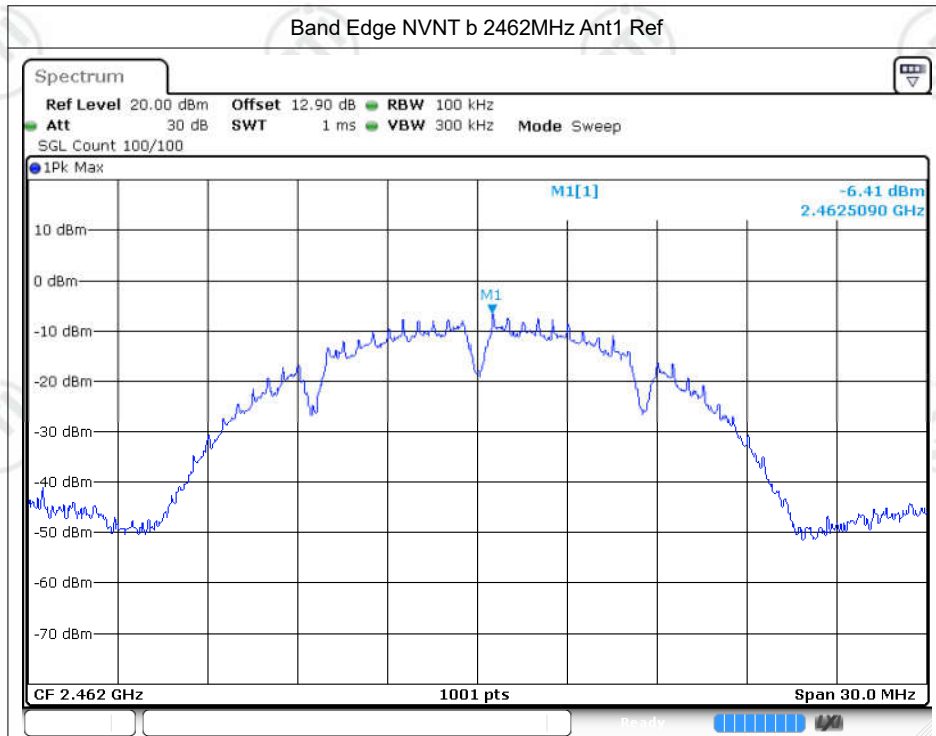
Date: 22.MAR.2024 10:20:23

**Band Edge**

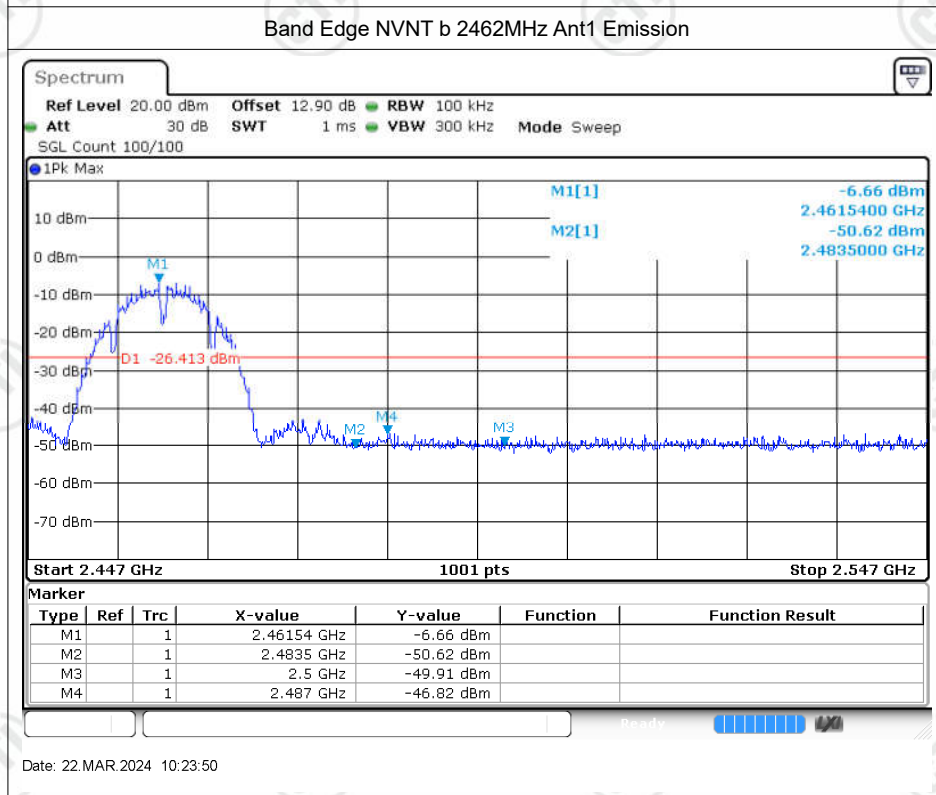
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-37.09	-20	Pass
NVNT	b	2462	Ant1	-40.4	-20	Pass
NVNT	g	2412	Ant1	-33.71	-20	Pass
NVNT	g	2462	Ant1	-37.03	-20	Pass
NVNT	n20	2412	Ant1	-33.94	-20	Pass
NVNT	n20	2462	Ant1	-36.26	-20	Pass
NVNT	n40	2422	Ant1	-29.67	-20	Pass
NVNT	n40	2452	Ant1	-29.02	-20	Pass



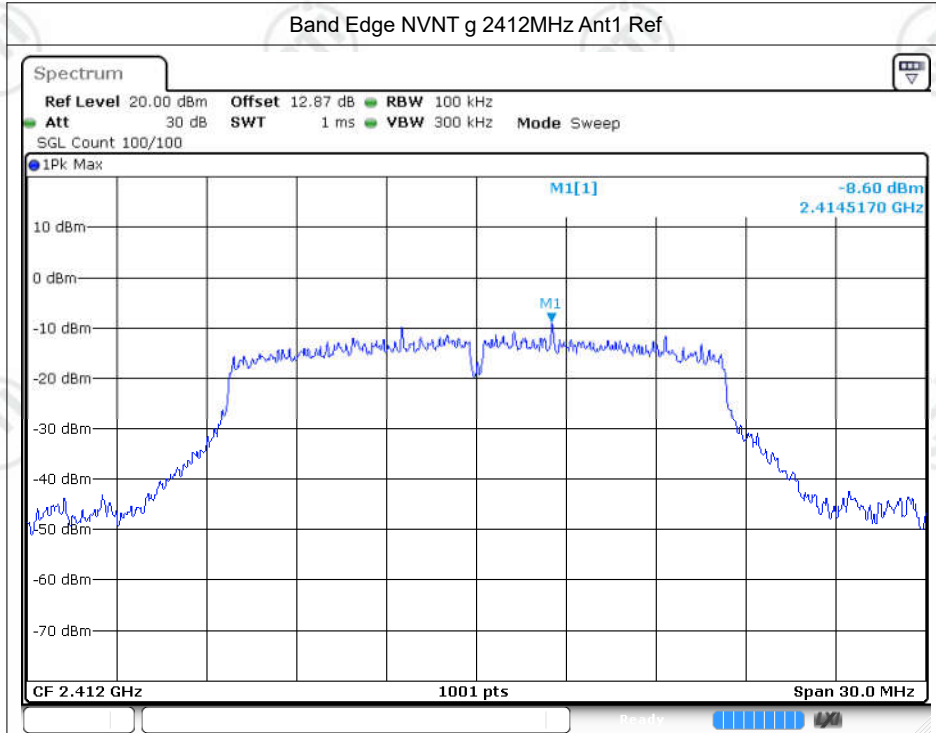




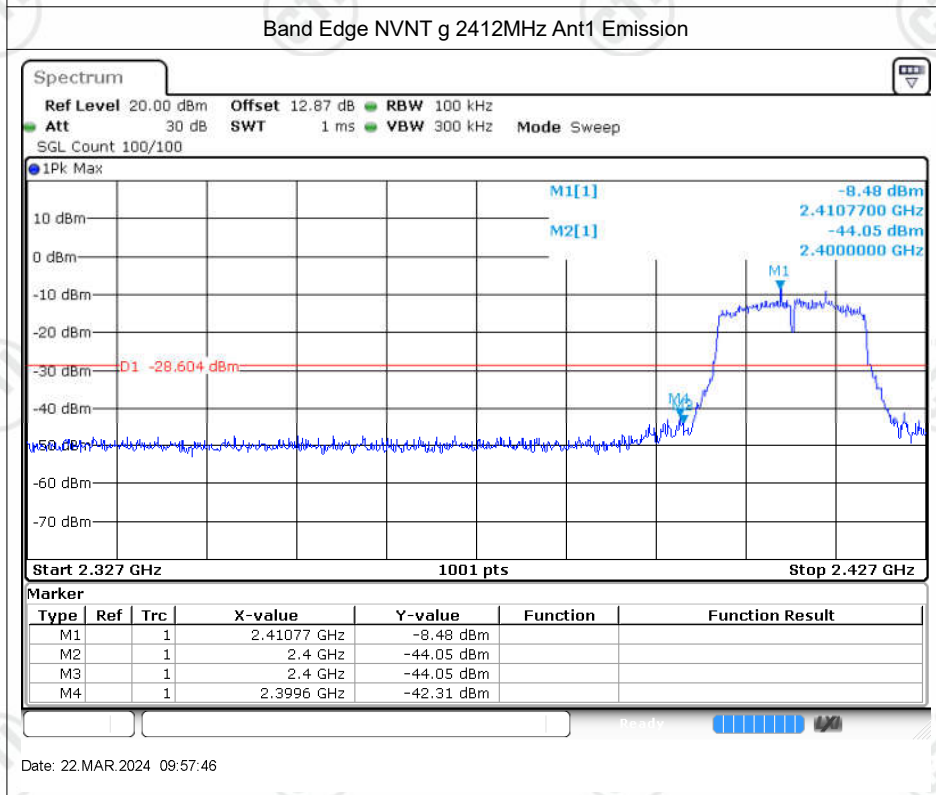
Date: 22.MAR.2024 10:23:48



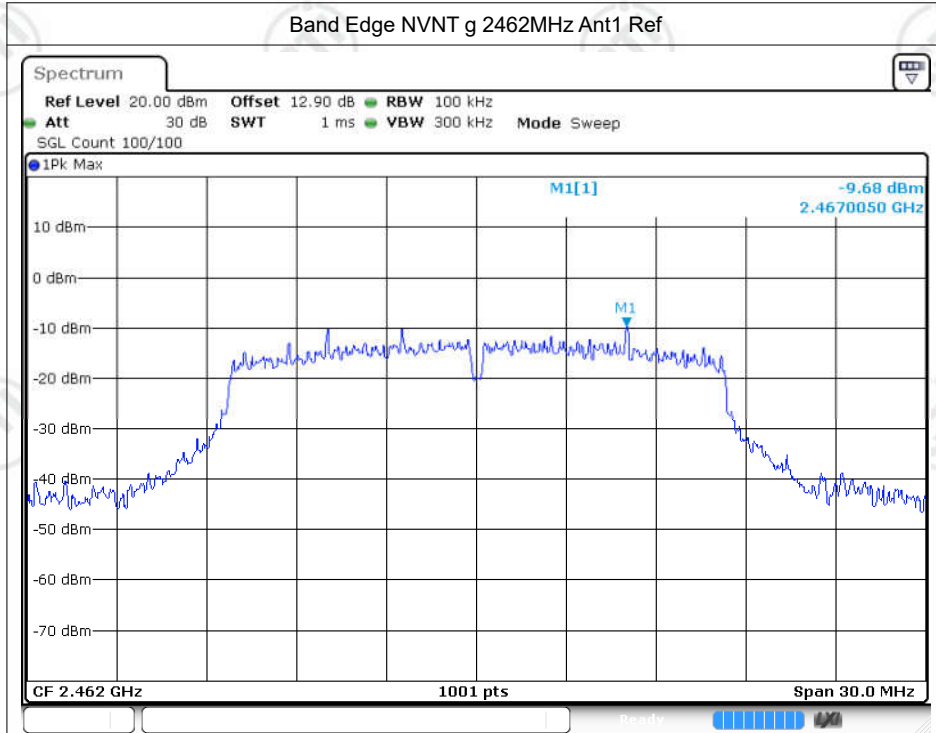
Date: 22.MAR.2024 10:23:50



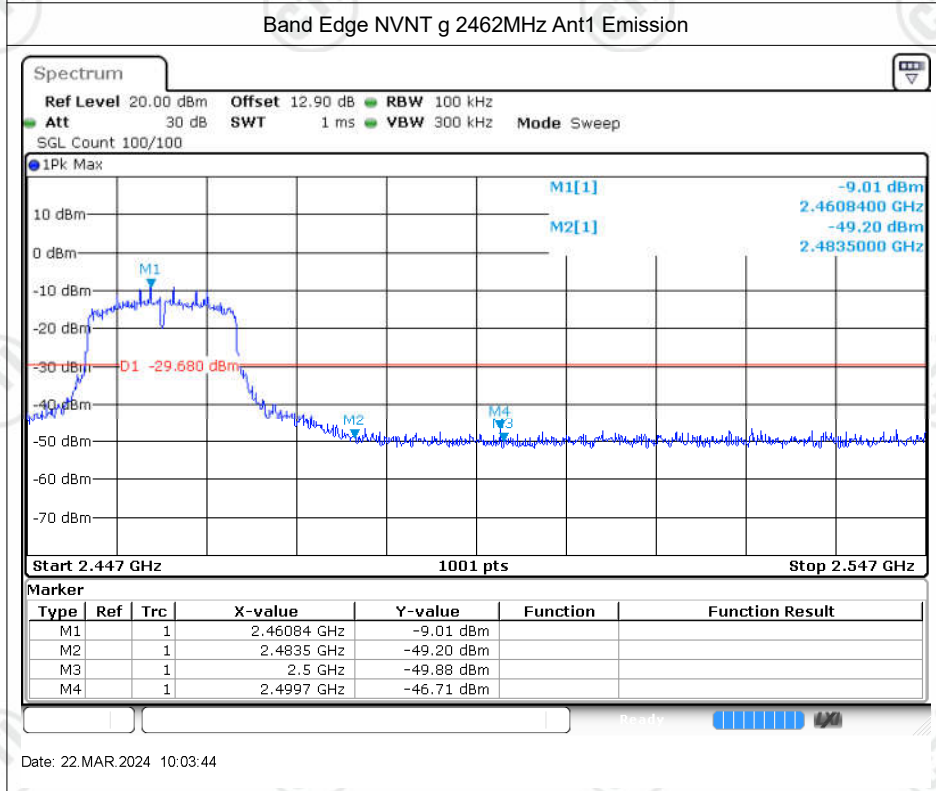
Date: 22.MAR.2024 09:57:44



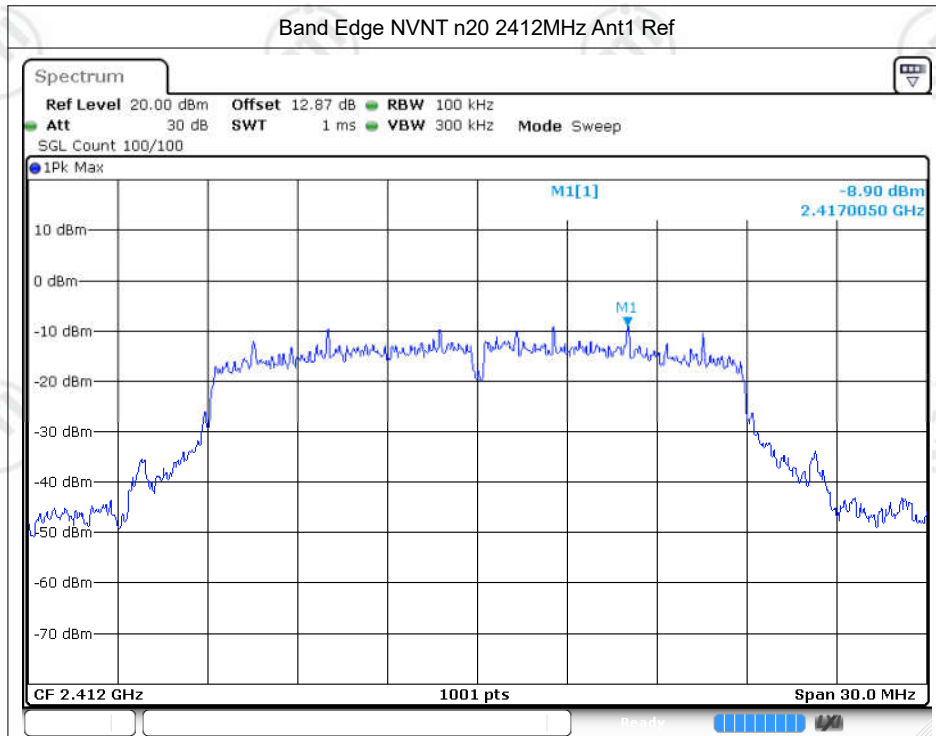
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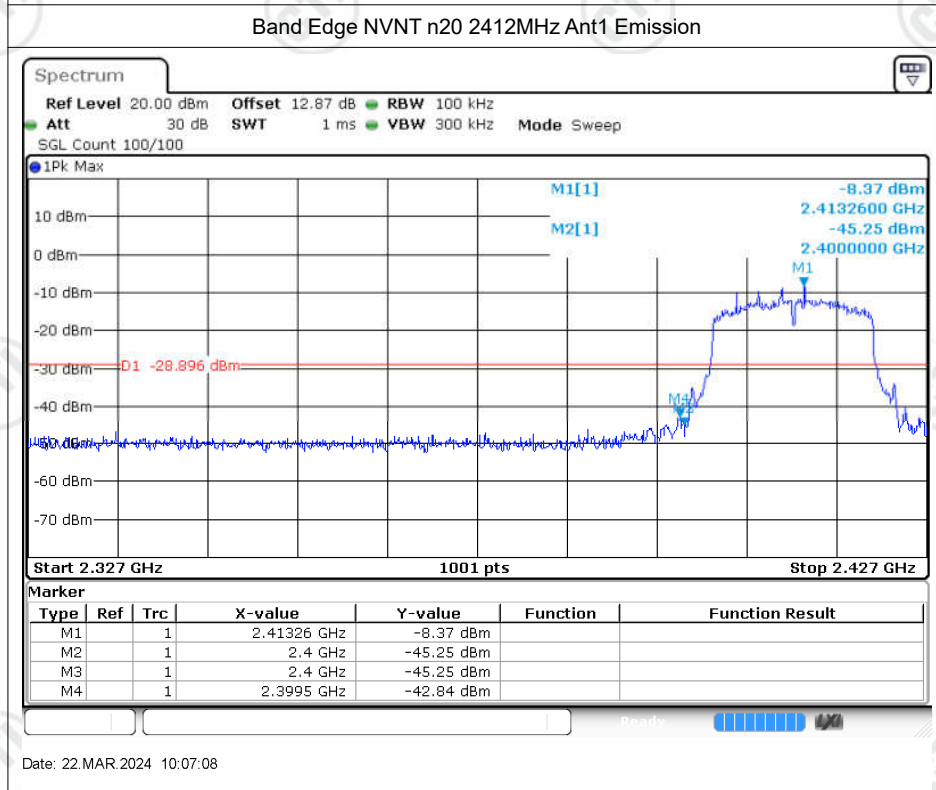
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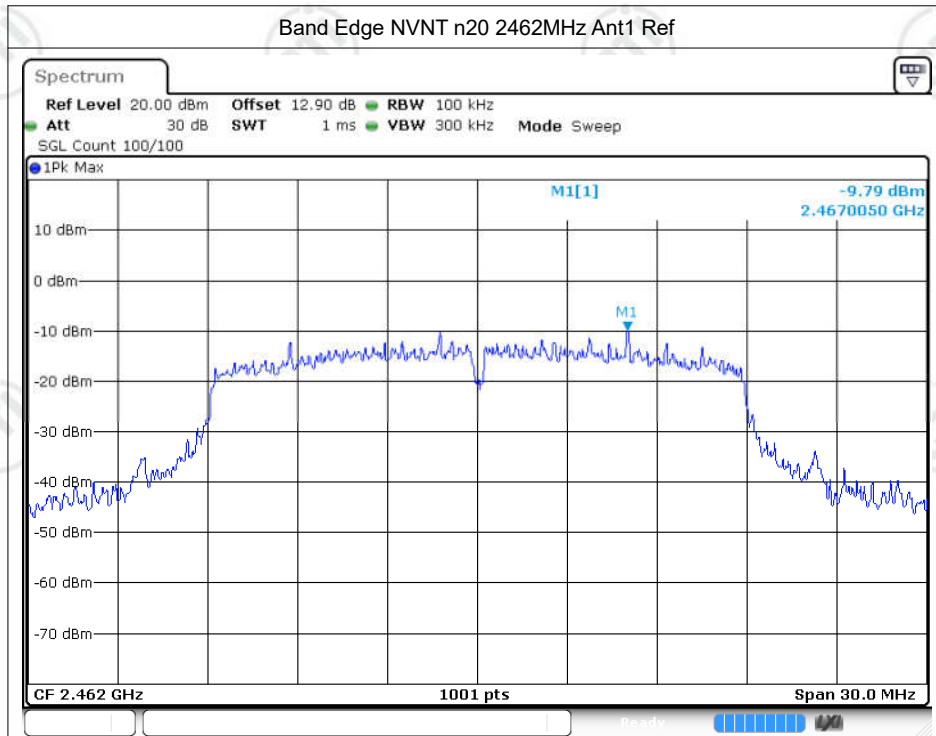
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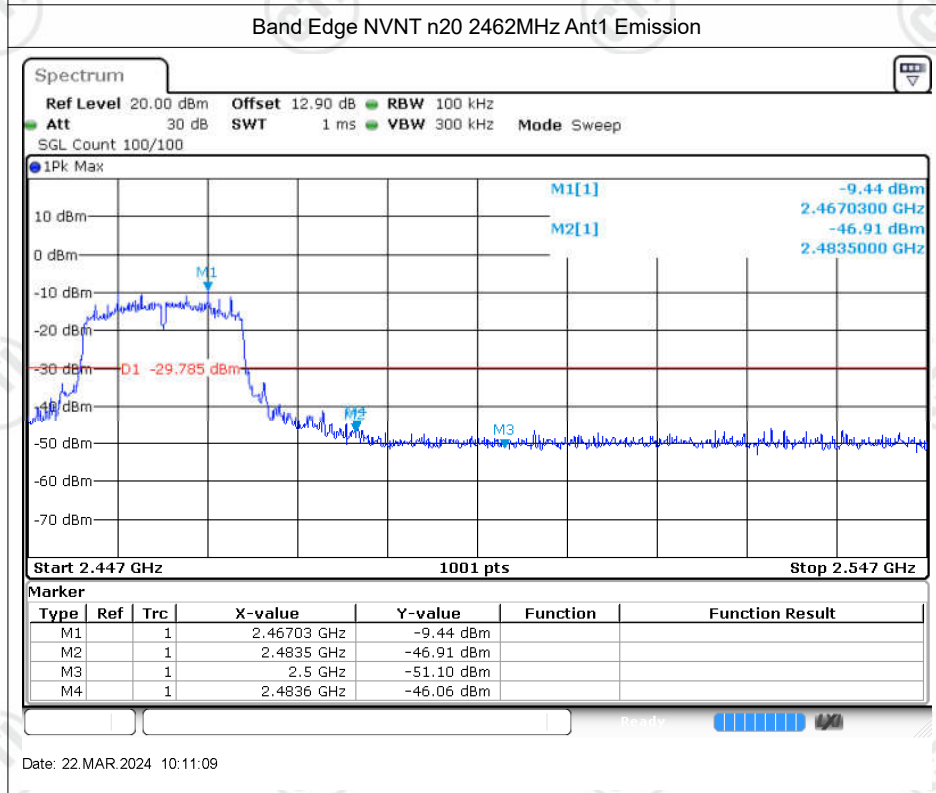
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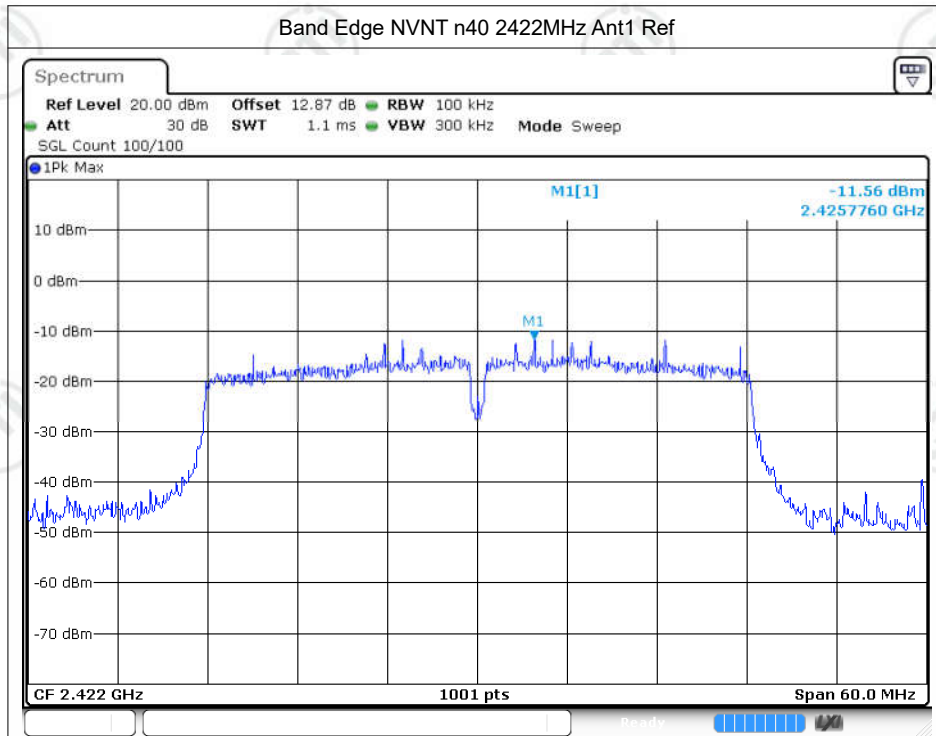
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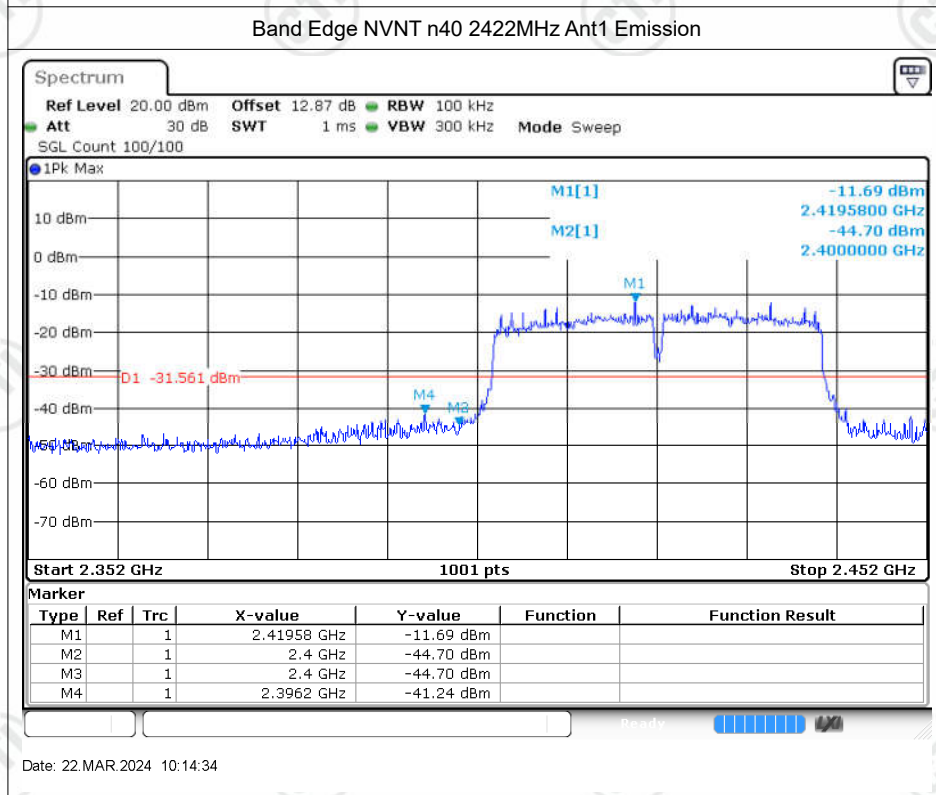
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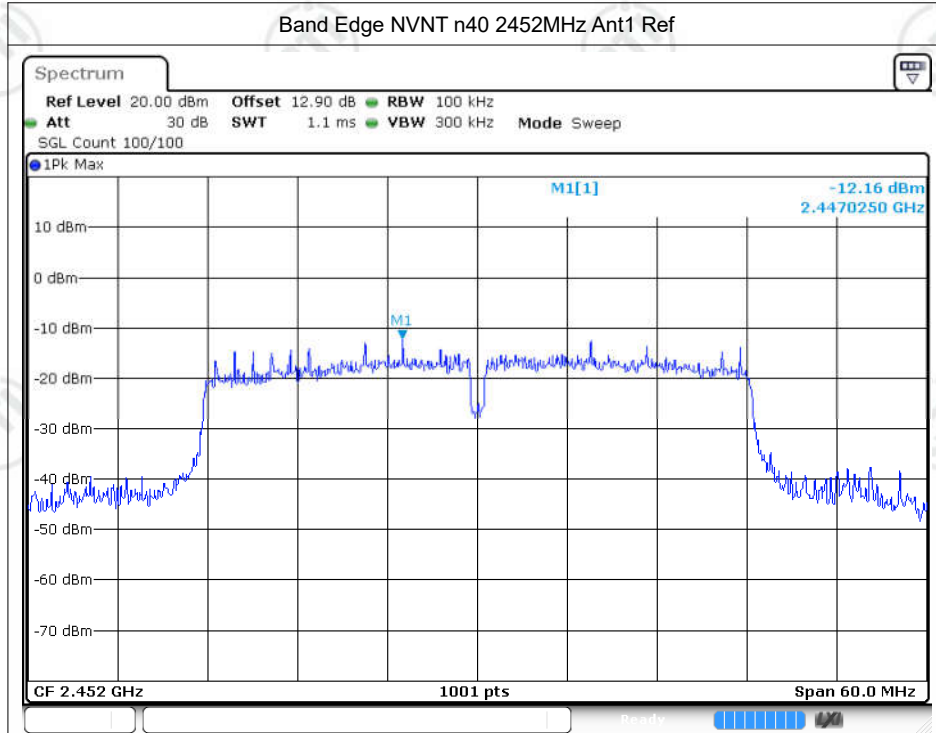
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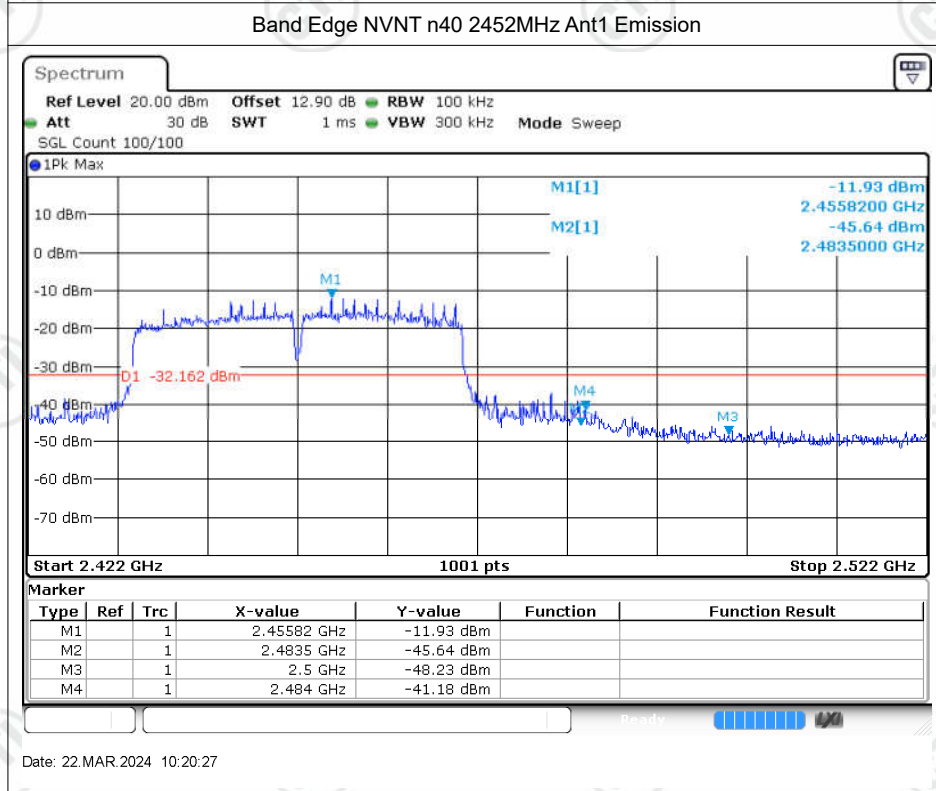
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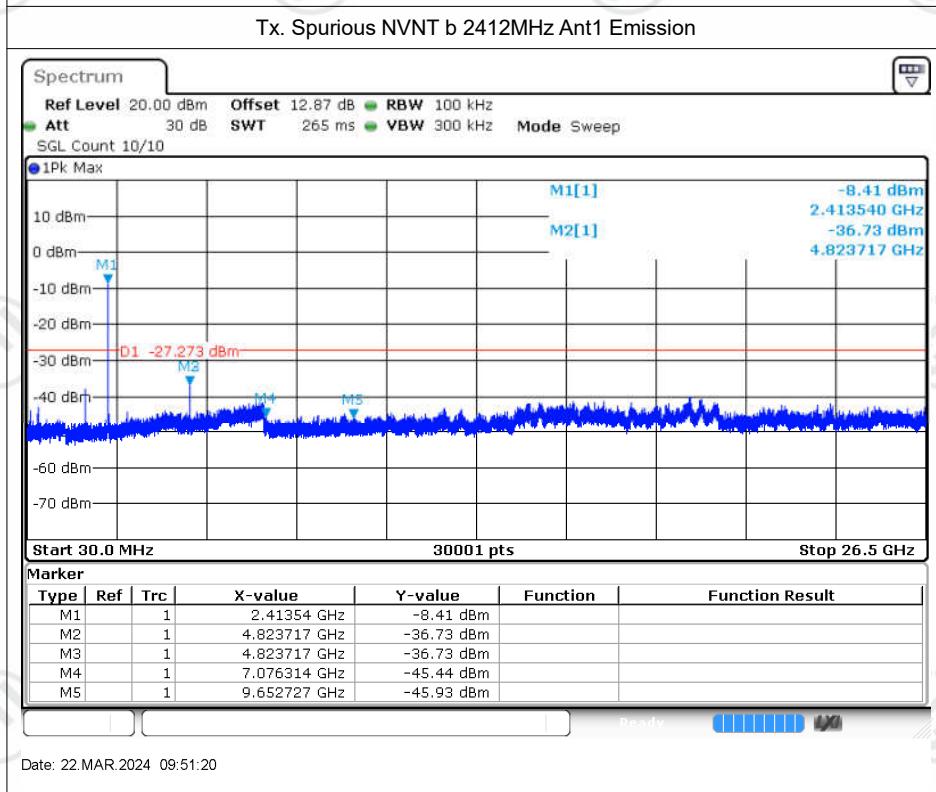
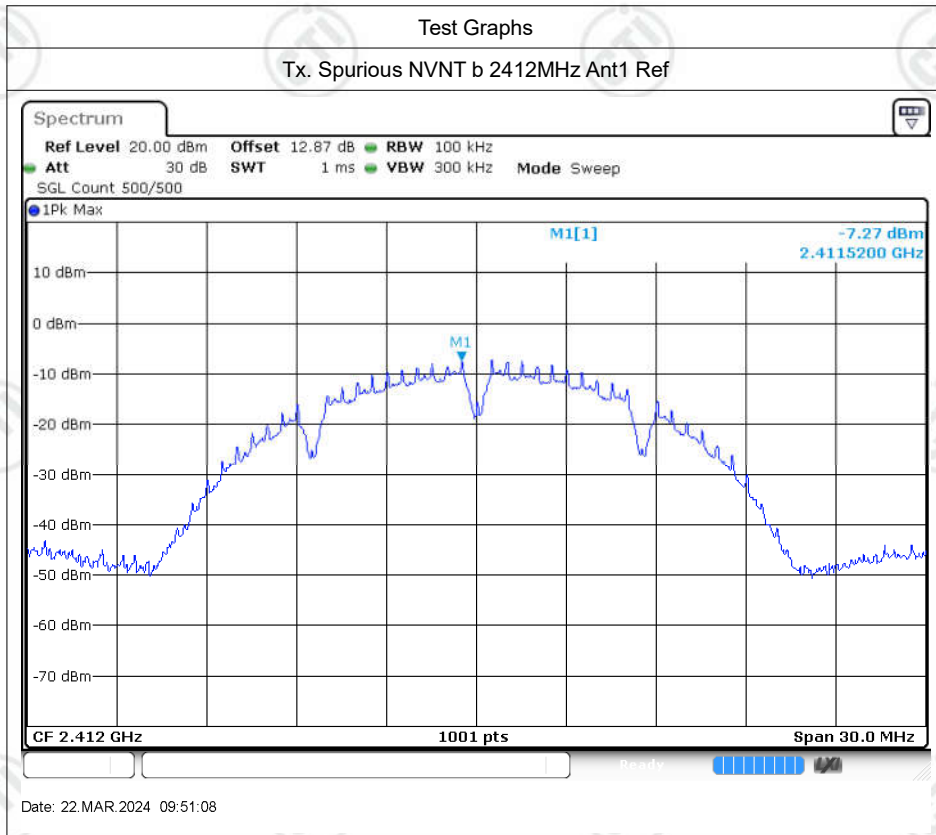


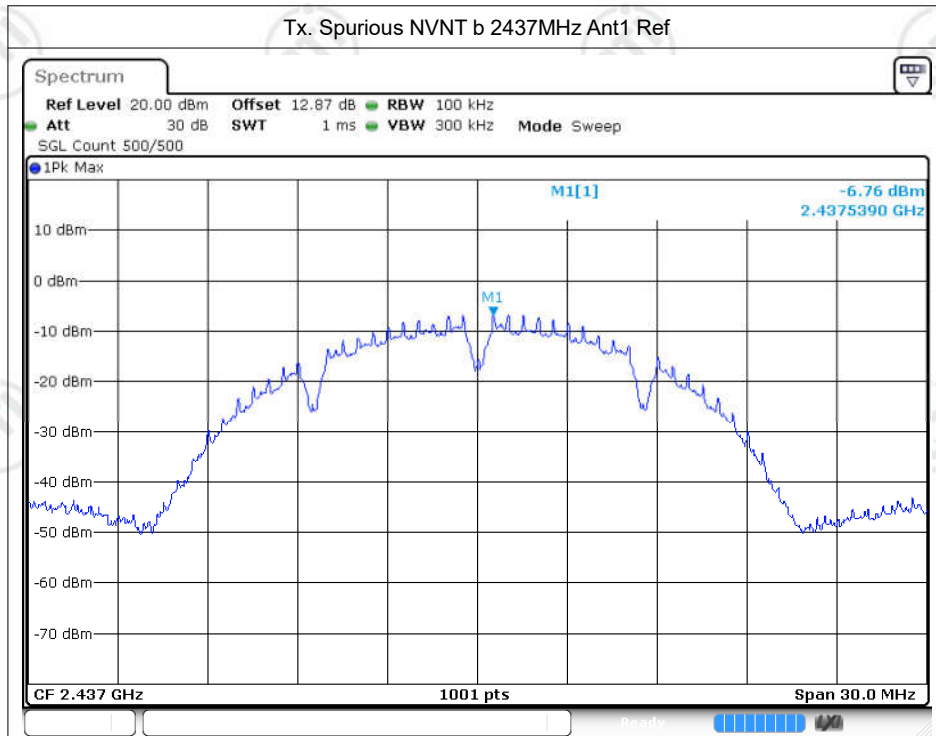
Date: 22.MAR.2024 10:20:27



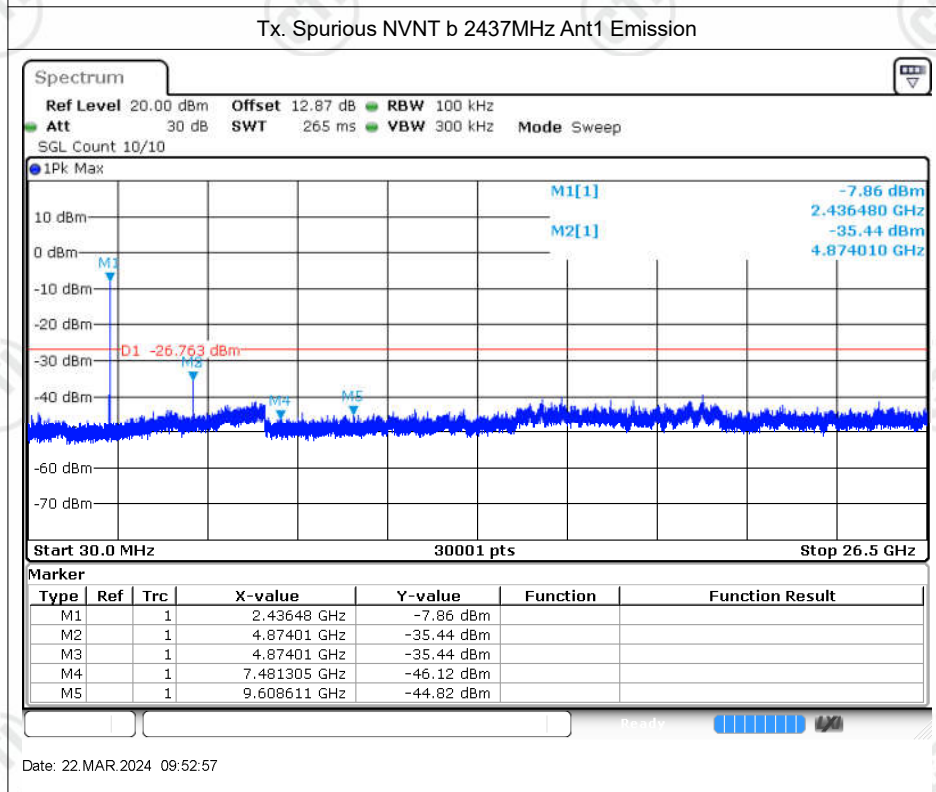
**Conducted RF Spurious Emission**

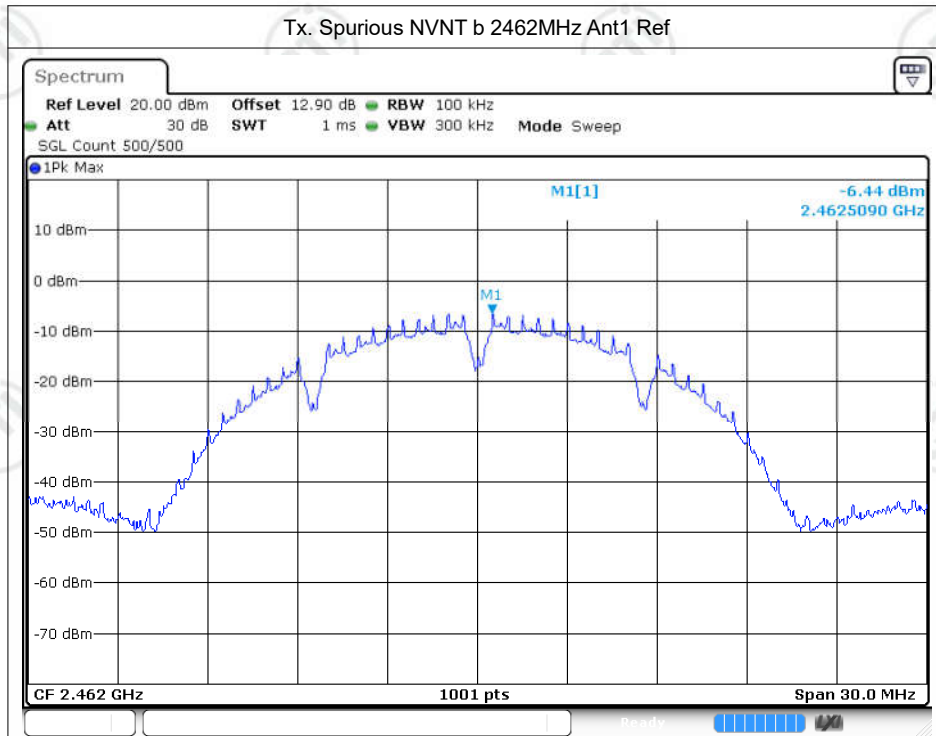
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-29.45	-20	Pass
NVNT	b	2437	Ant1	-28.68	-20	Pass
NVNT	b	2462	Ant1	-29.09	-20	Pass
NVNT	g	2412	Ant1	-31.71	-20	Pass
NVNT	g	2437	Ant1	-32.97	-20	Pass
NVNT	g	2462	Ant1	-35.28	-20	Pass
NVNT	n20	2412	Ant1	-31.49	-20	Pass
NVNT	n20	2437	Ant1	-31.43	-20	Pass
NVNT	n20	2462	Ant1	-31.73	-20	Pass
NVNT	n40	2422	Ant1	-29.15	-20	Pass
NVNT	n40	2437	Ant1	-28.18	-20	Pass
NVNT	n40	2452	Ant1	-28.41	-20	Pass



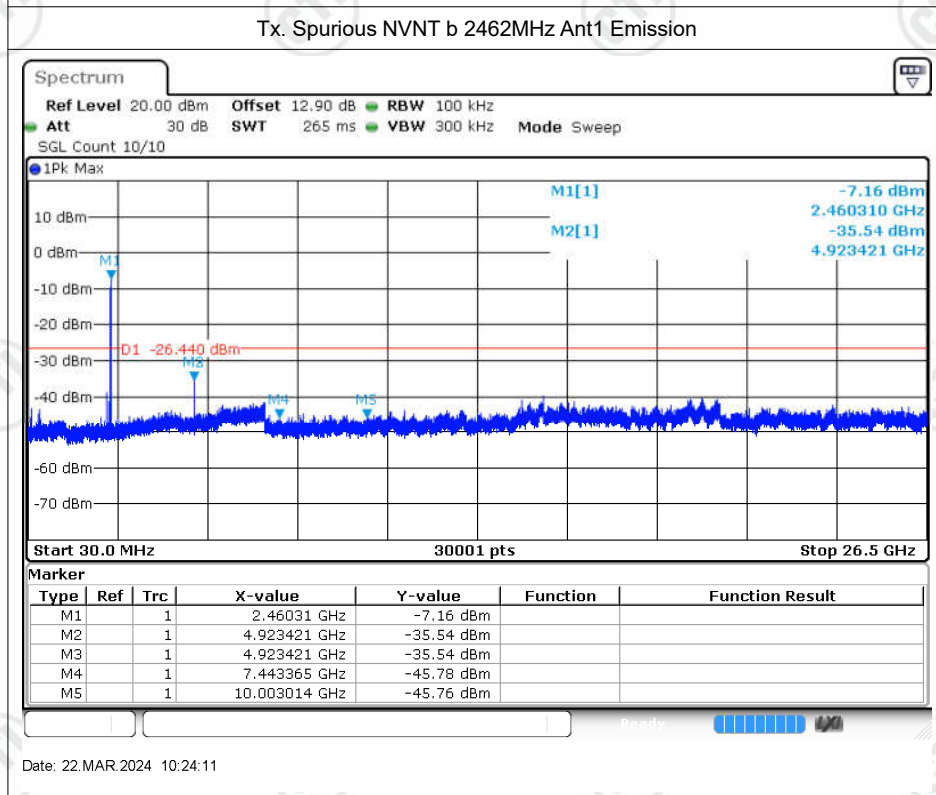


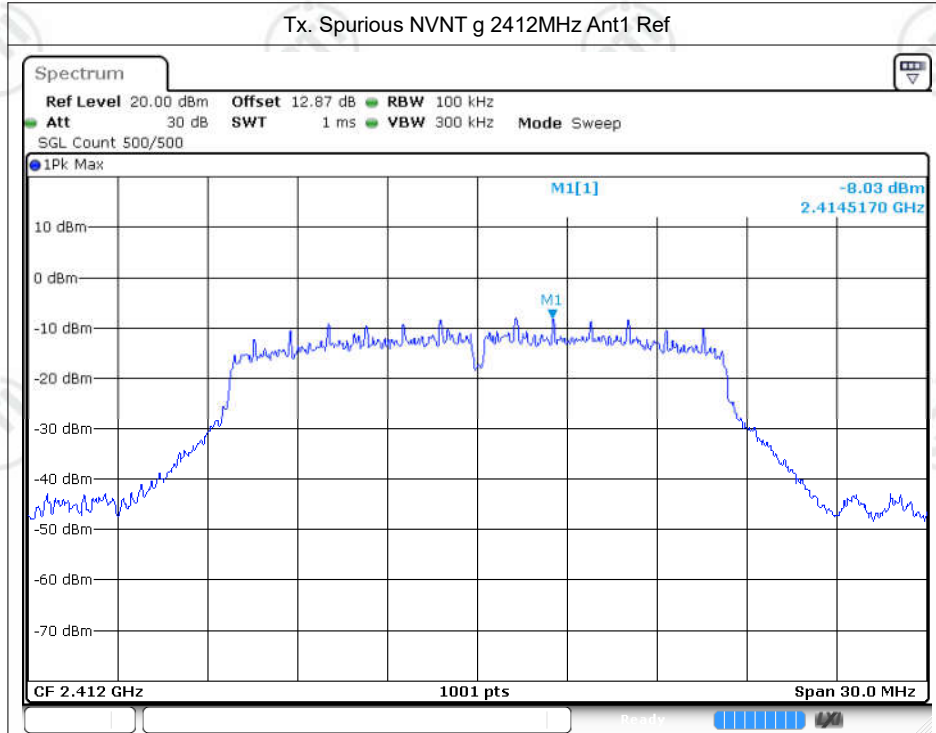
Date: 22.MAR.2024 09:52:46



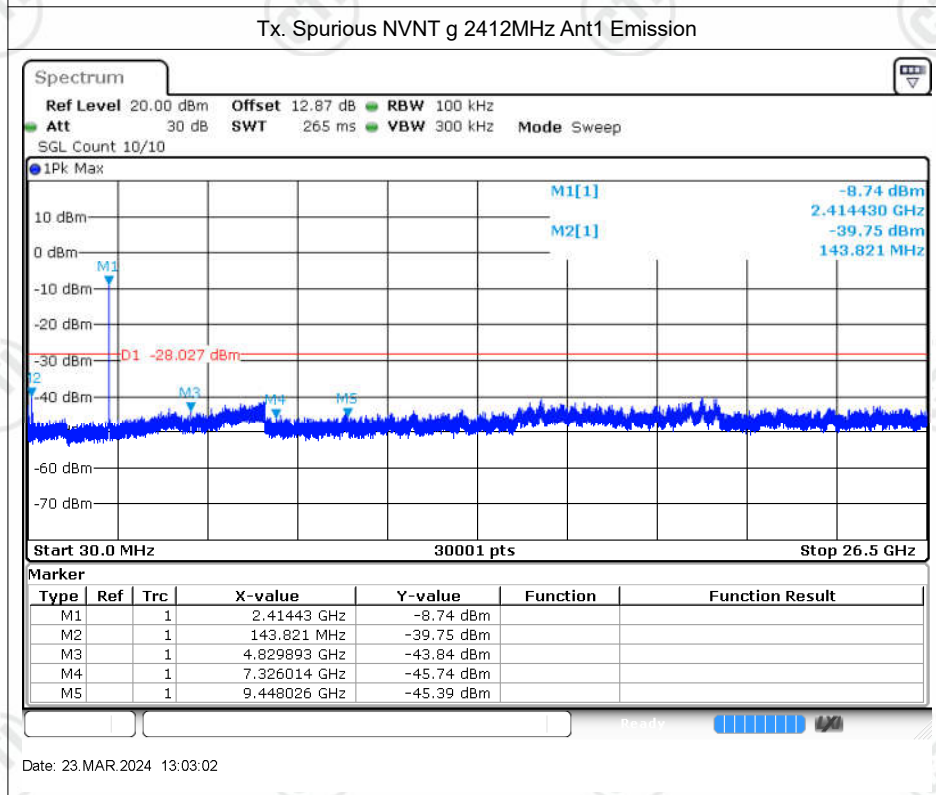


Date: 22.MAR.2024 10:24:00

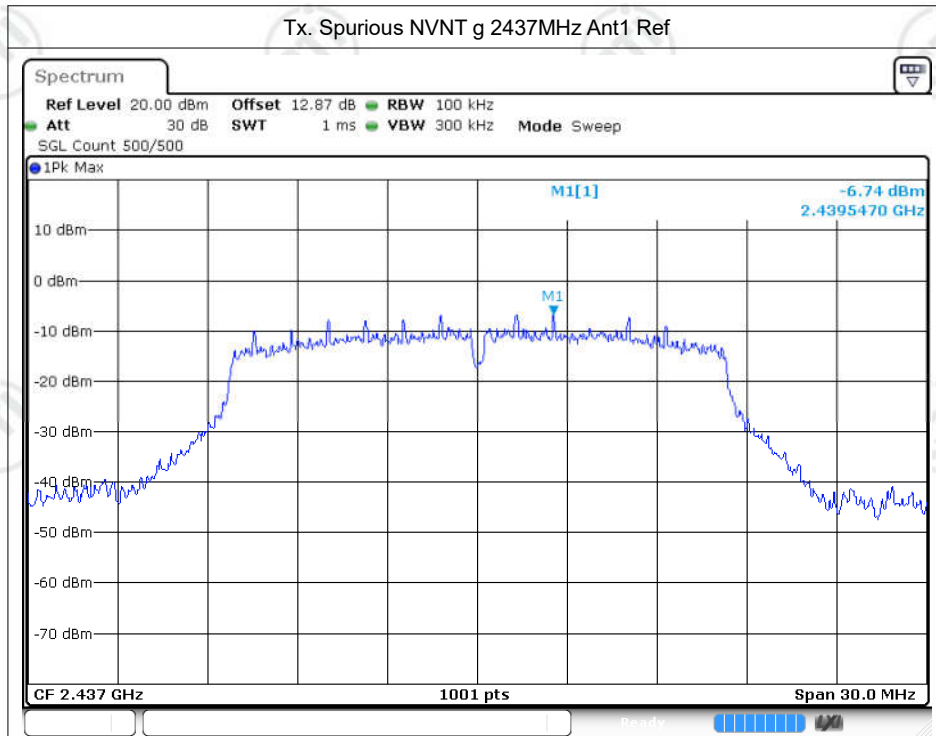




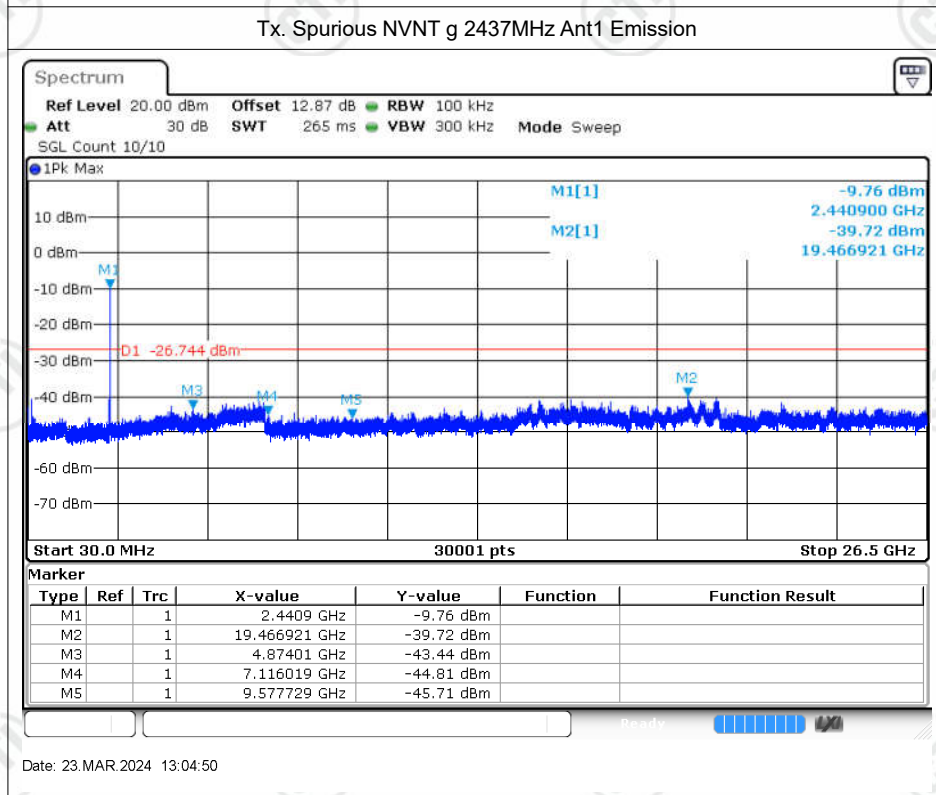
Date: 23.MAR.2024 13:02:50

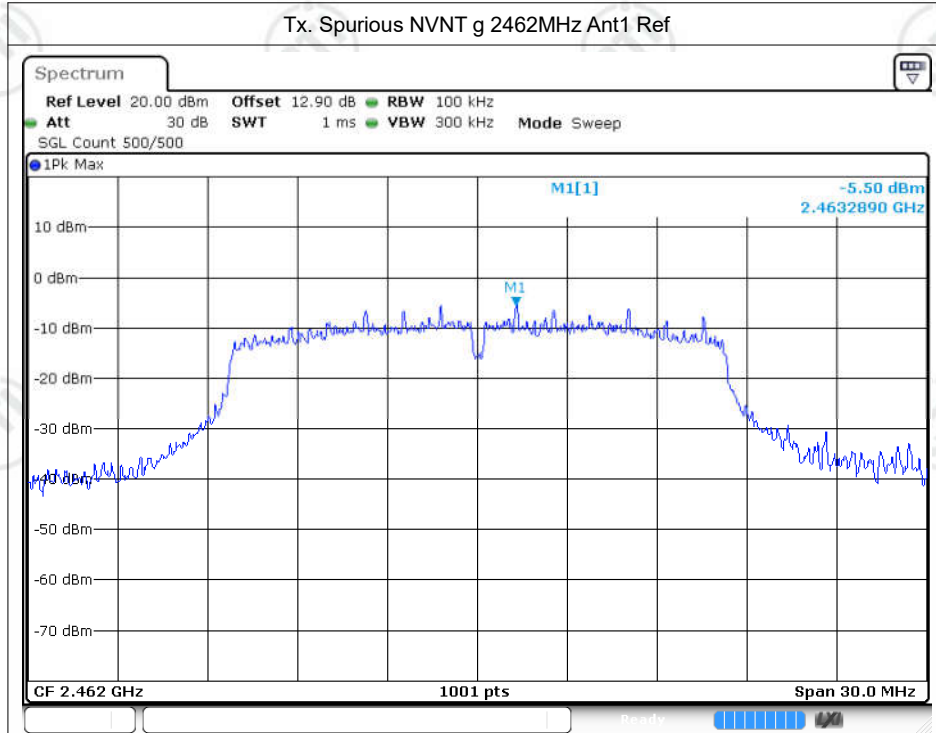


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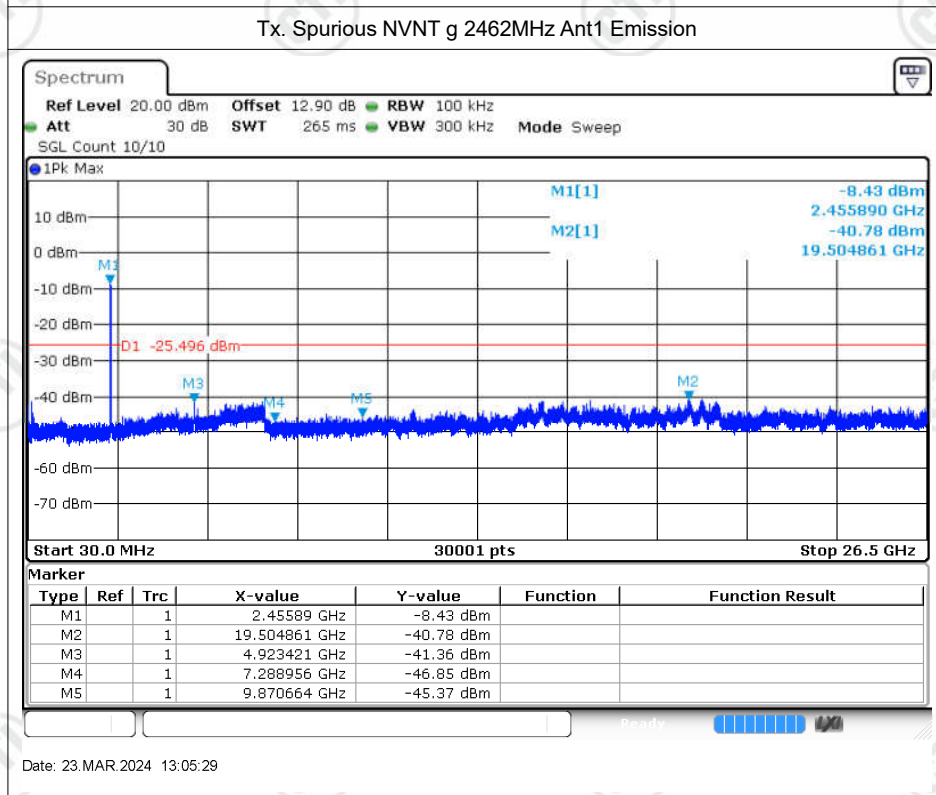


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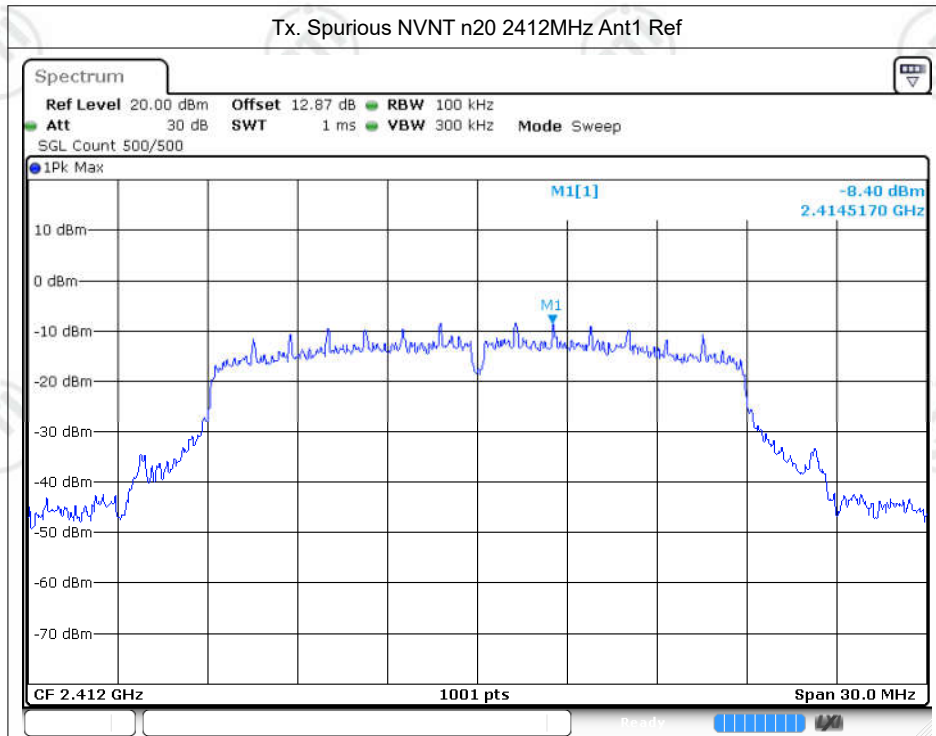




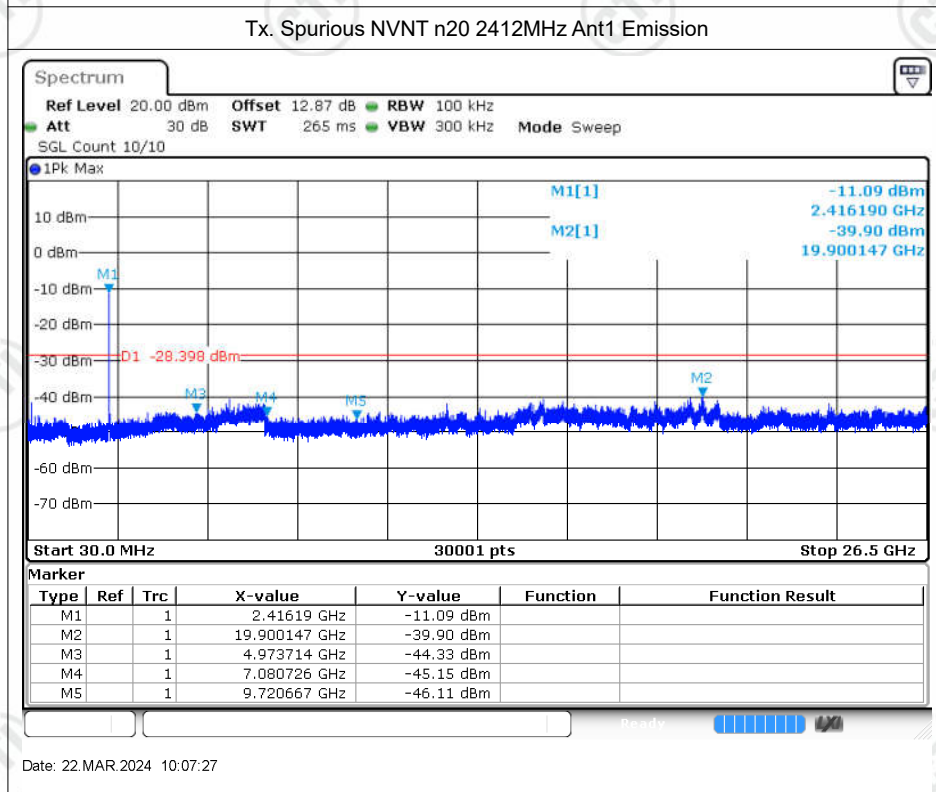
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Date: 23.MAR.2024 13:05:29

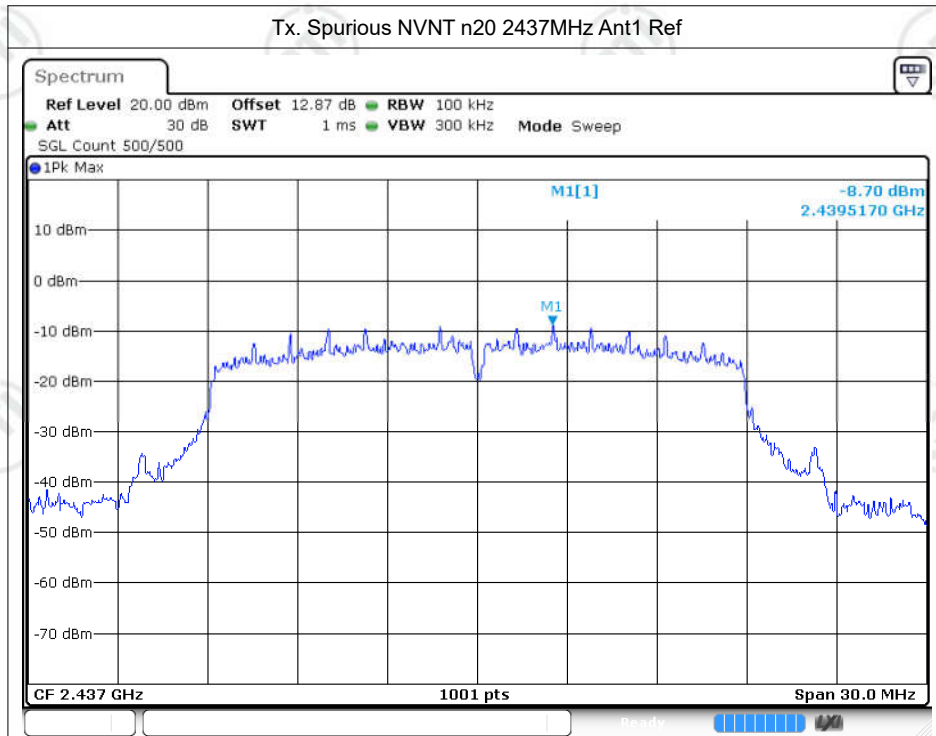


Date: 22.MAR.2024 10:07:15

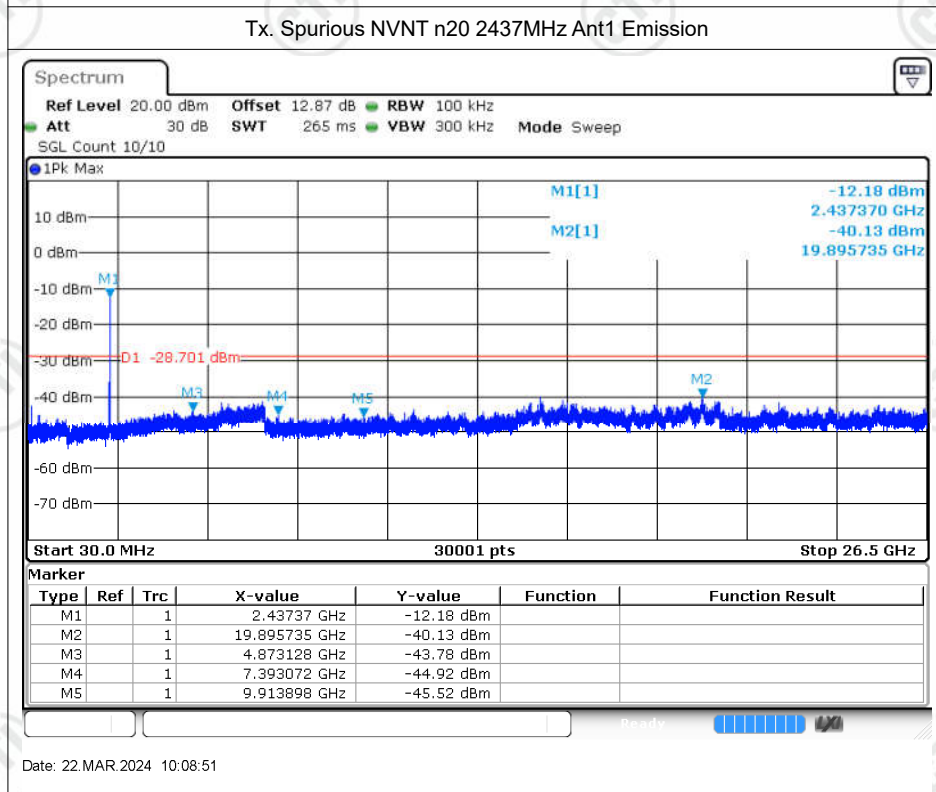


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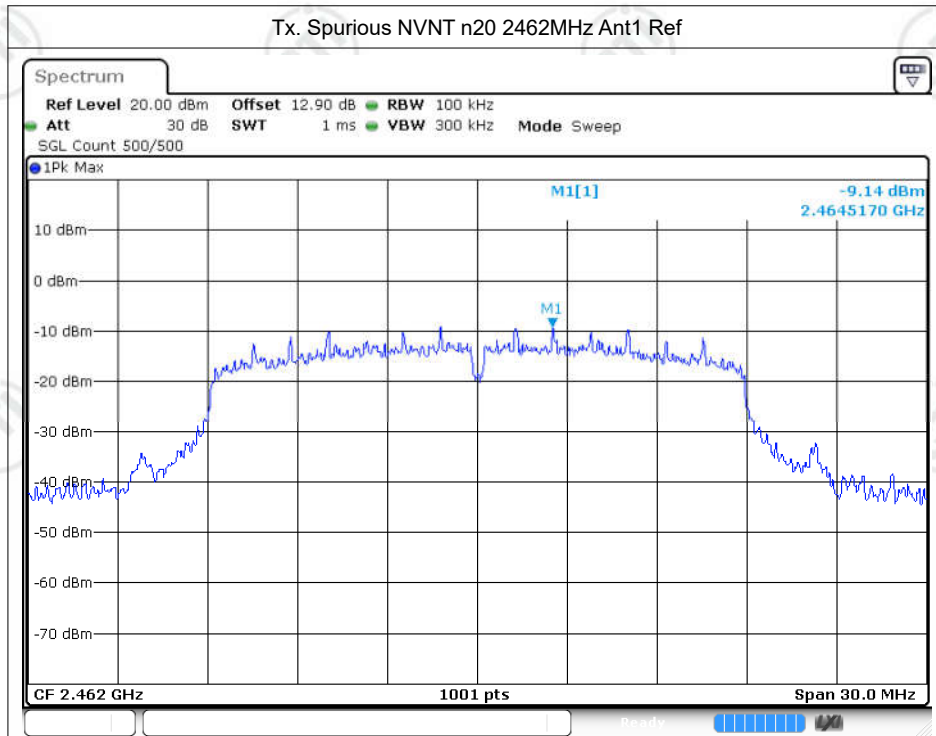




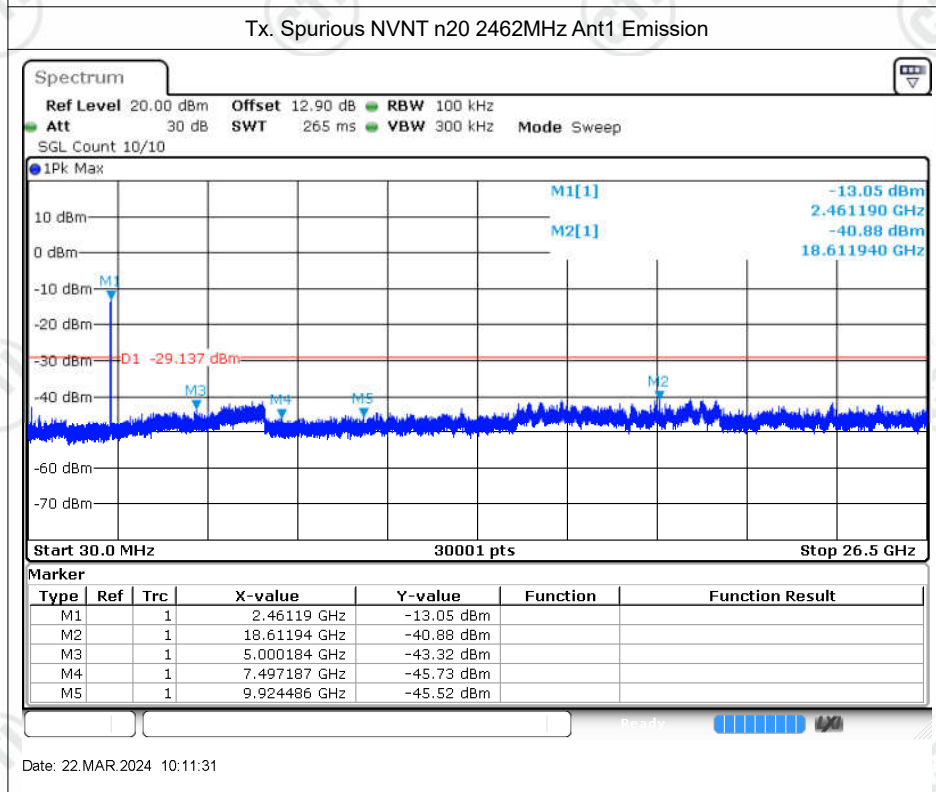
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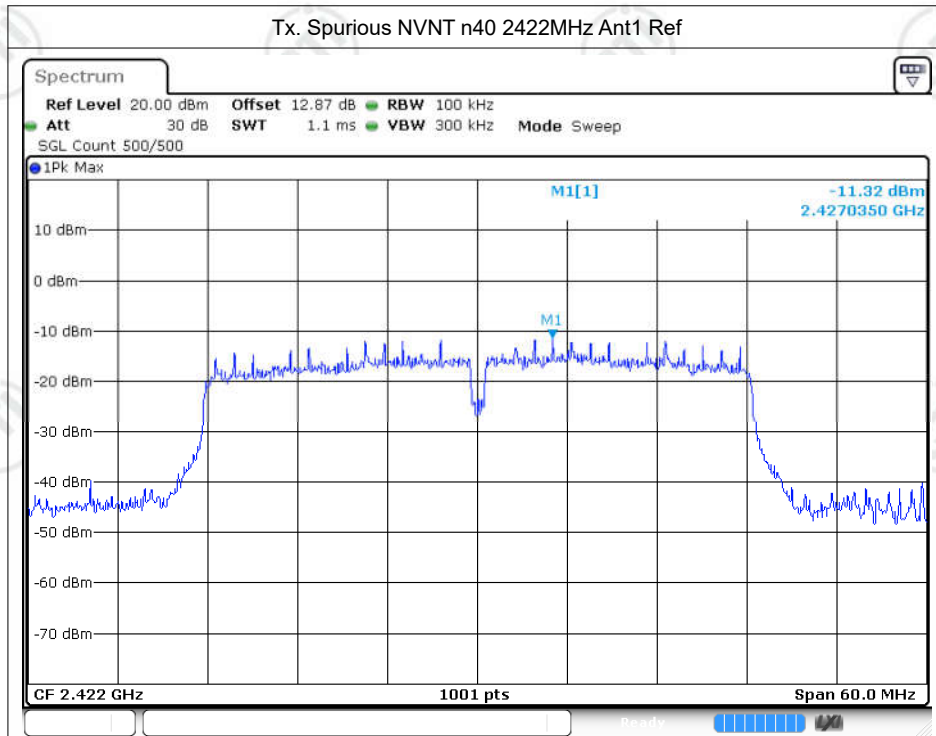


Date: 22.MAR.2024 10:08:51

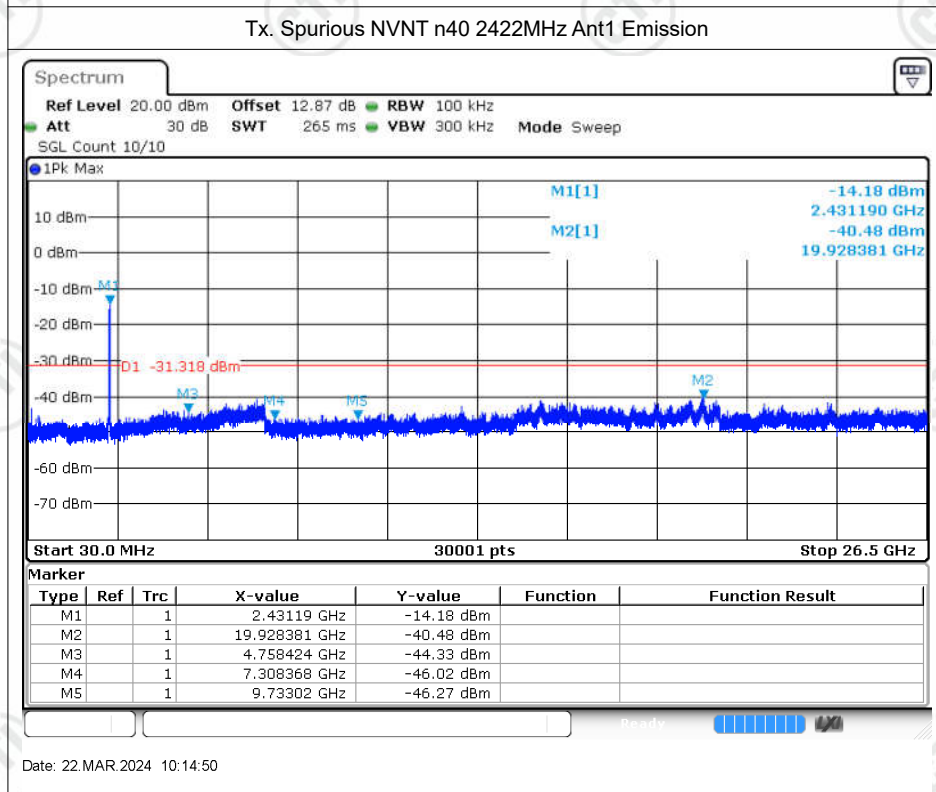


Date: 22.MAR.2024 10:11:19

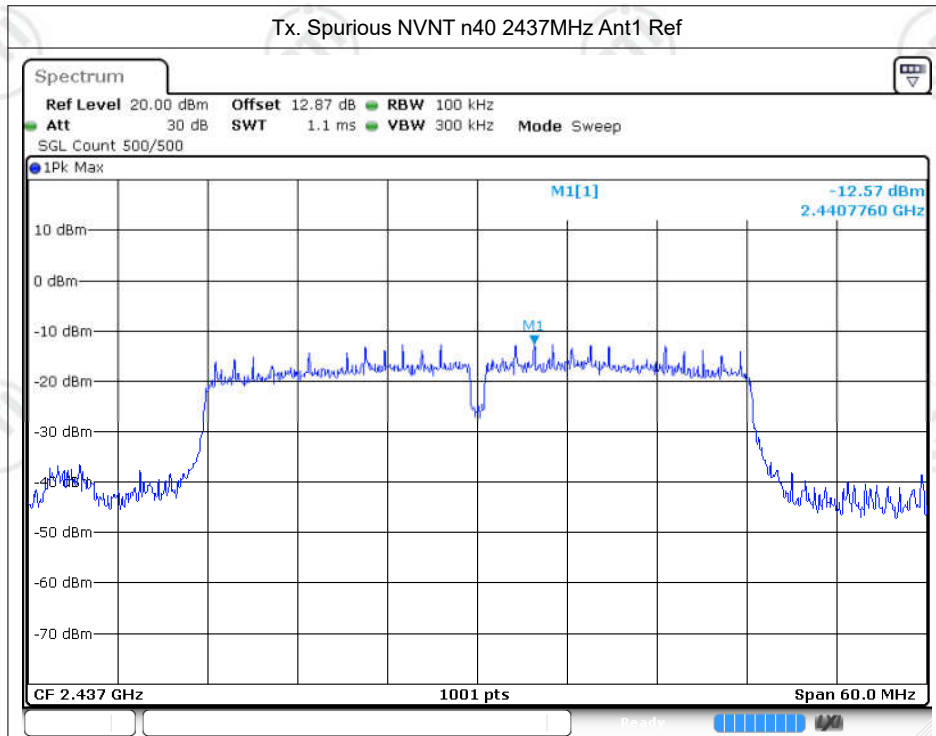




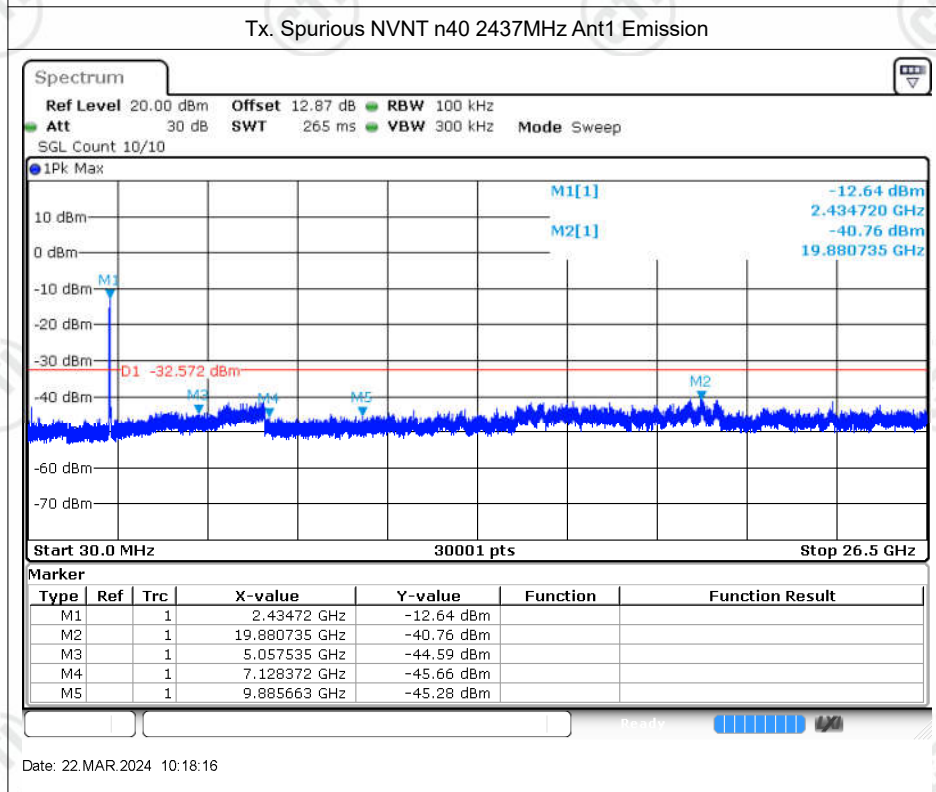
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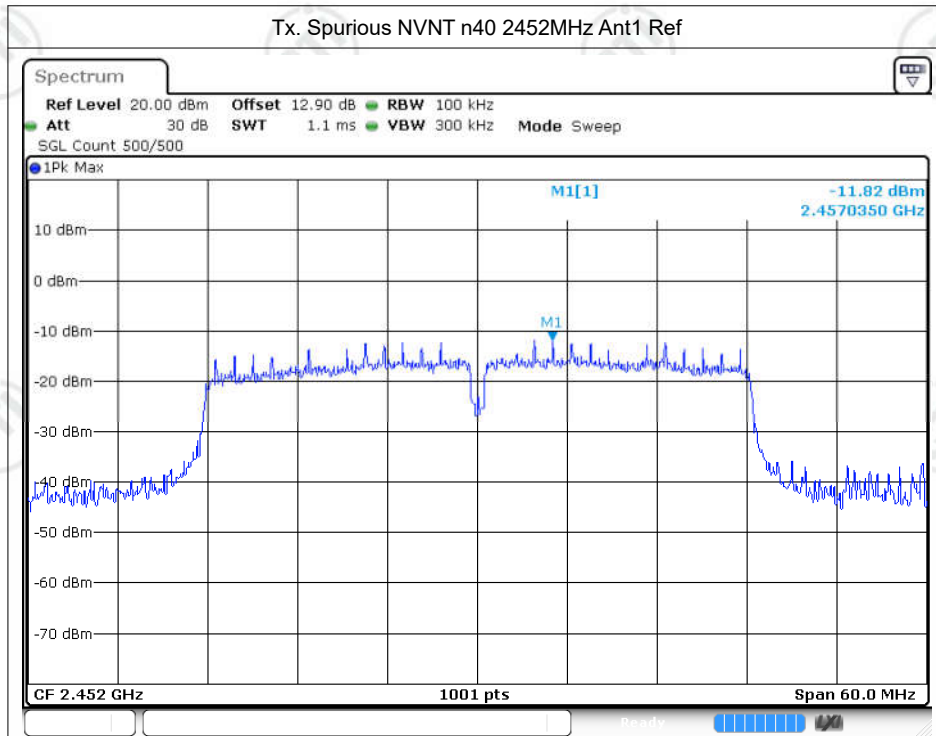
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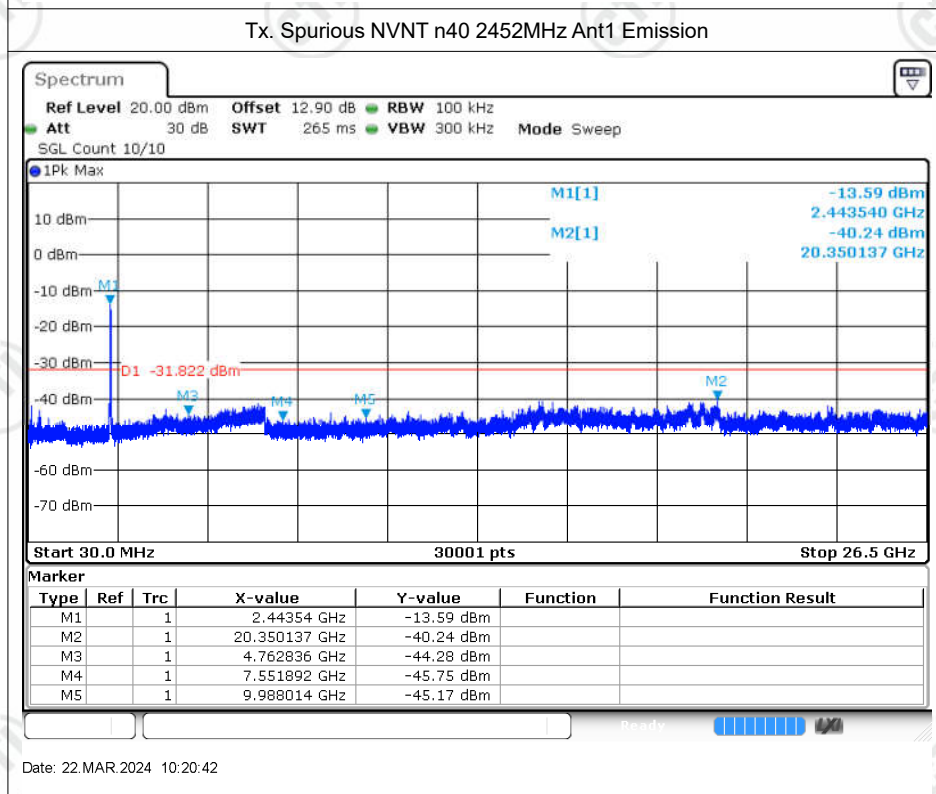
Date: 22.MAR.2024 10:18:05



Date: 22.MAR.2024 10:18:16



Date: 22.MAR.2024 10:20:31



\*\*\* End of Report \*\*\*