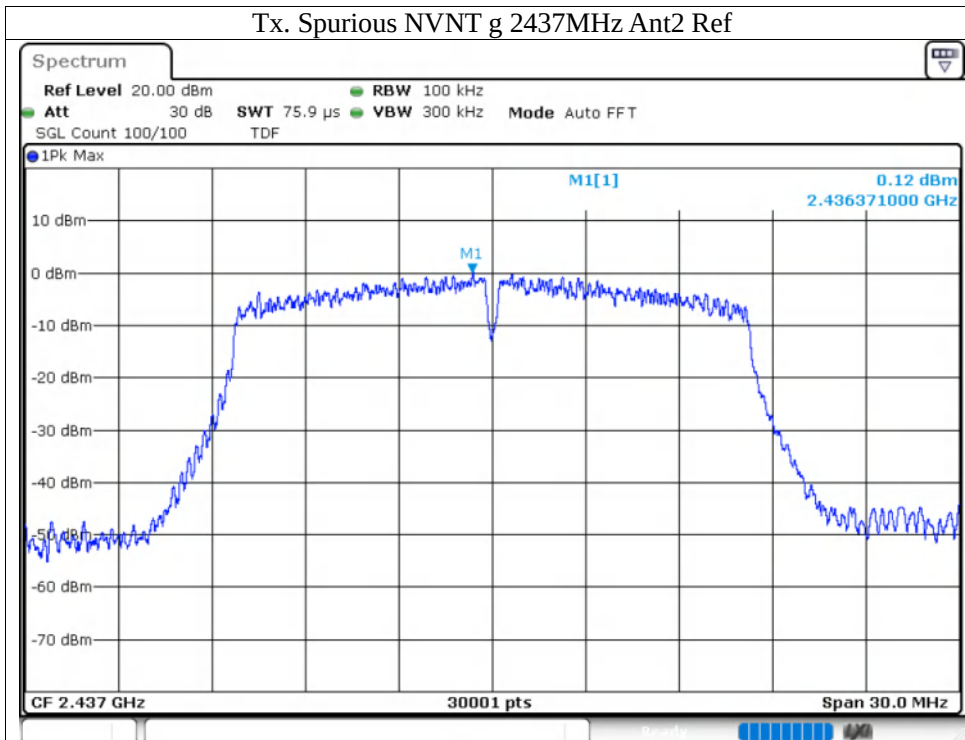
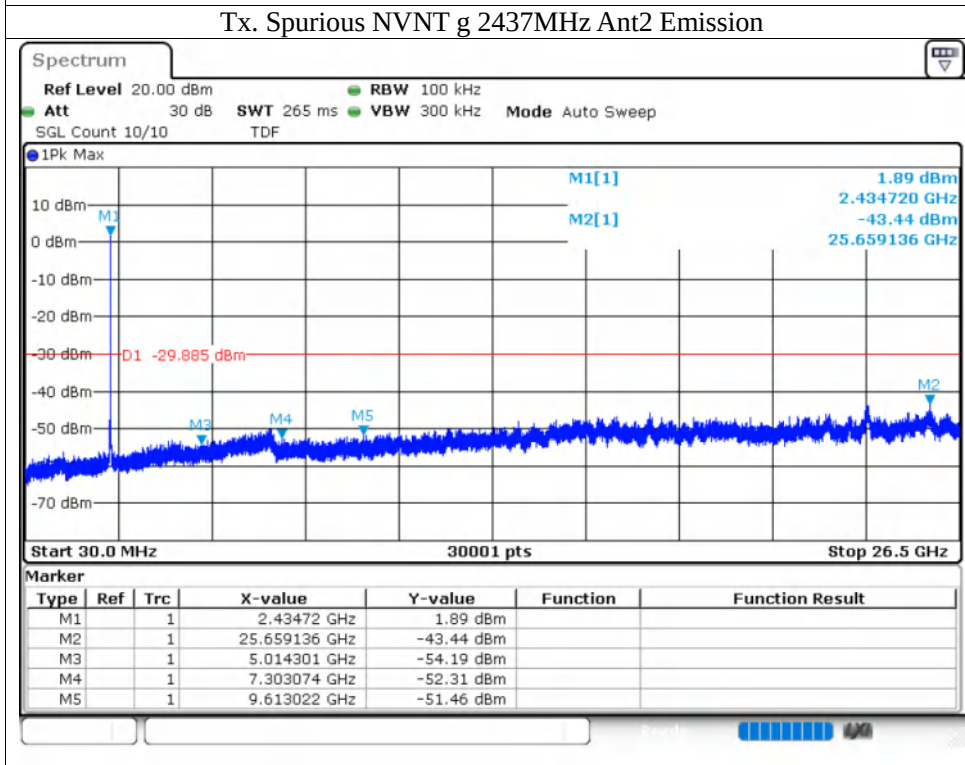


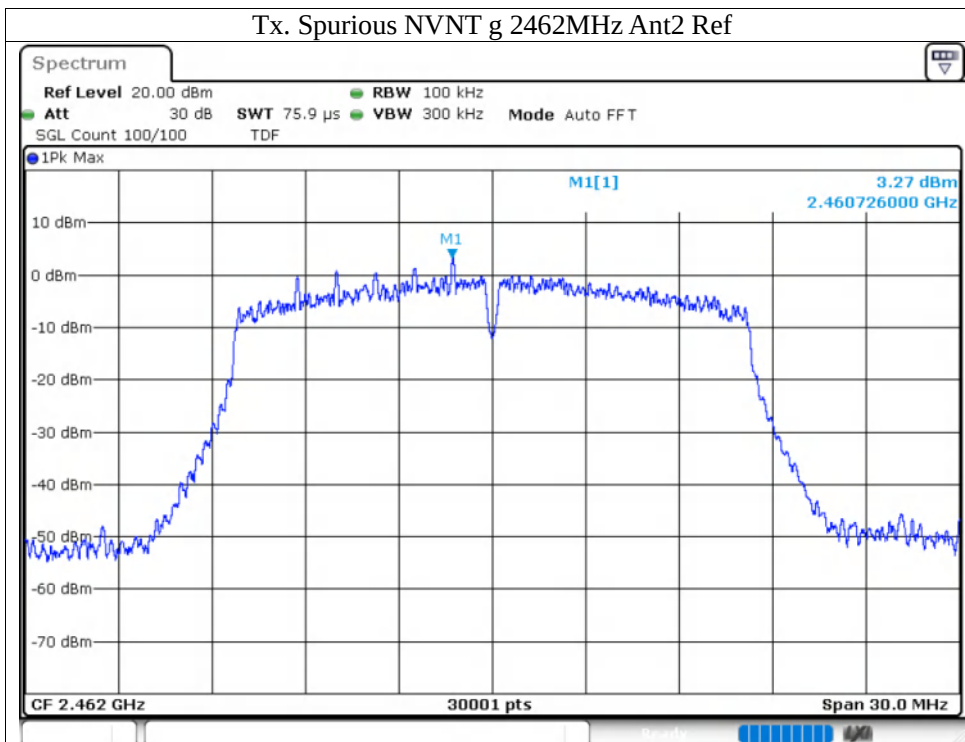
Tx. Spurious NVNT g 2437MHz Ant2 Ref



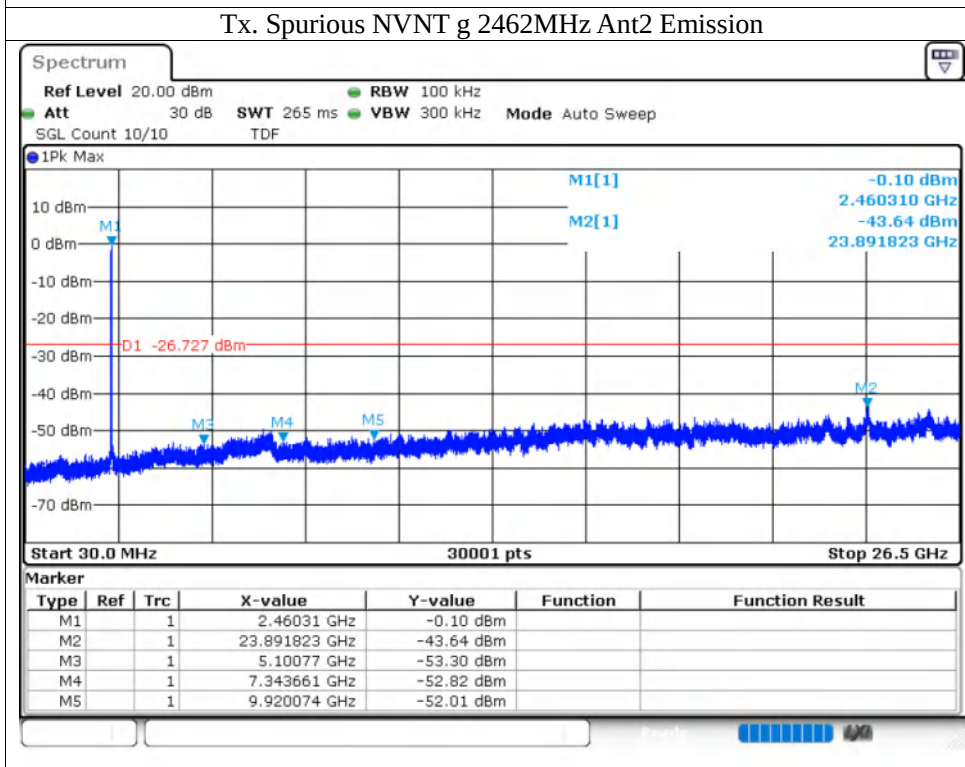
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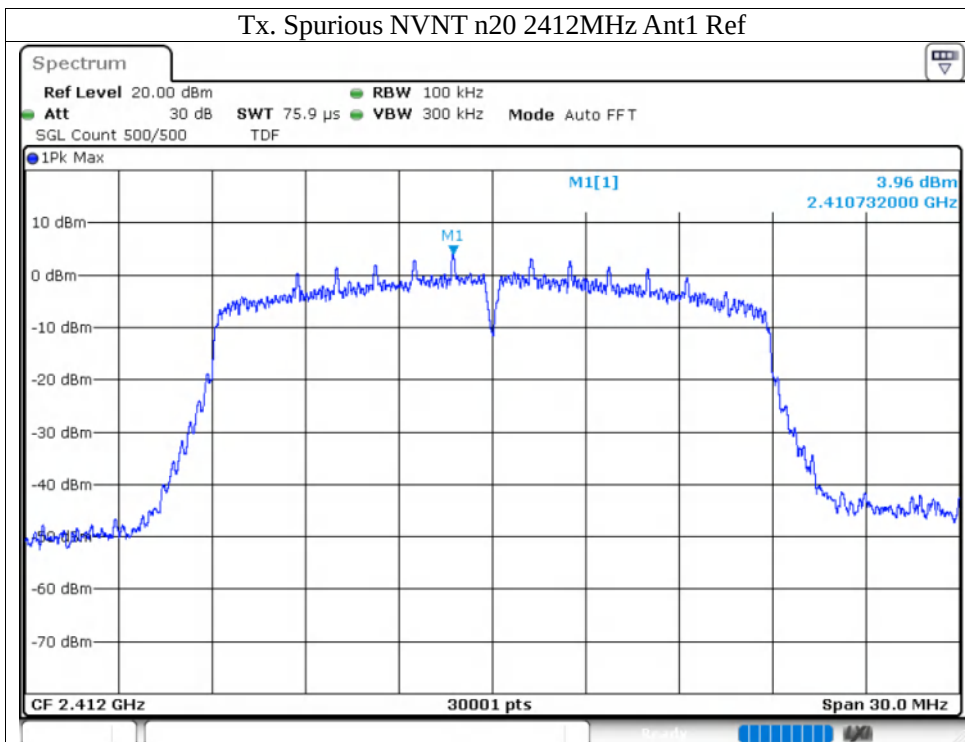
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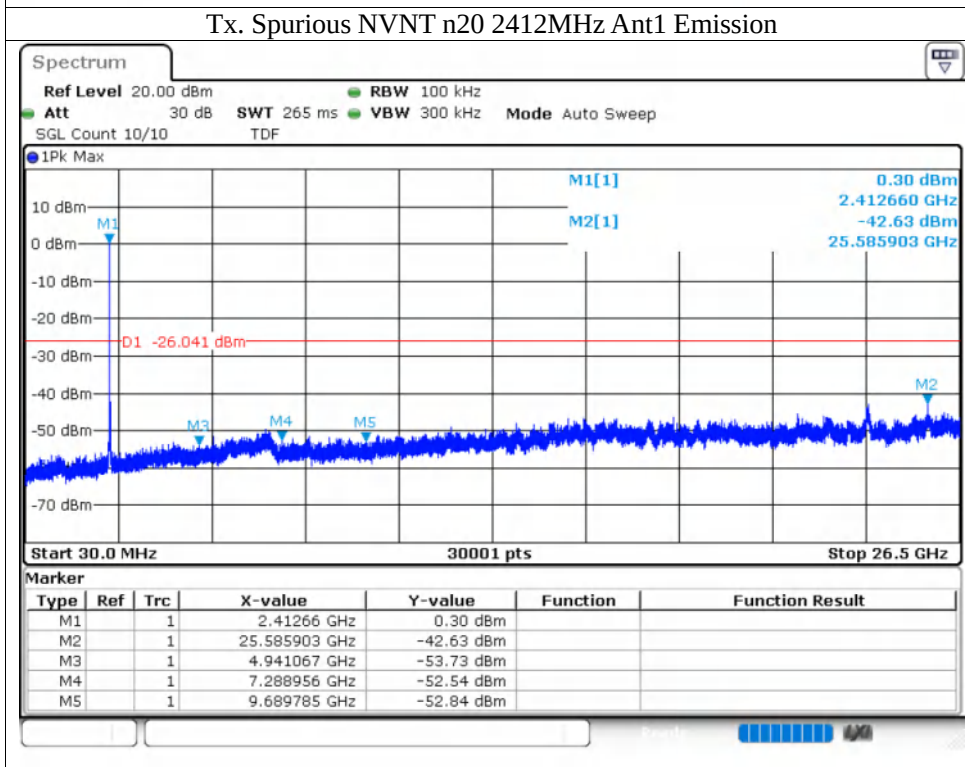
Tx. Spurious NVNT g 2462MHz Ant2 Emission



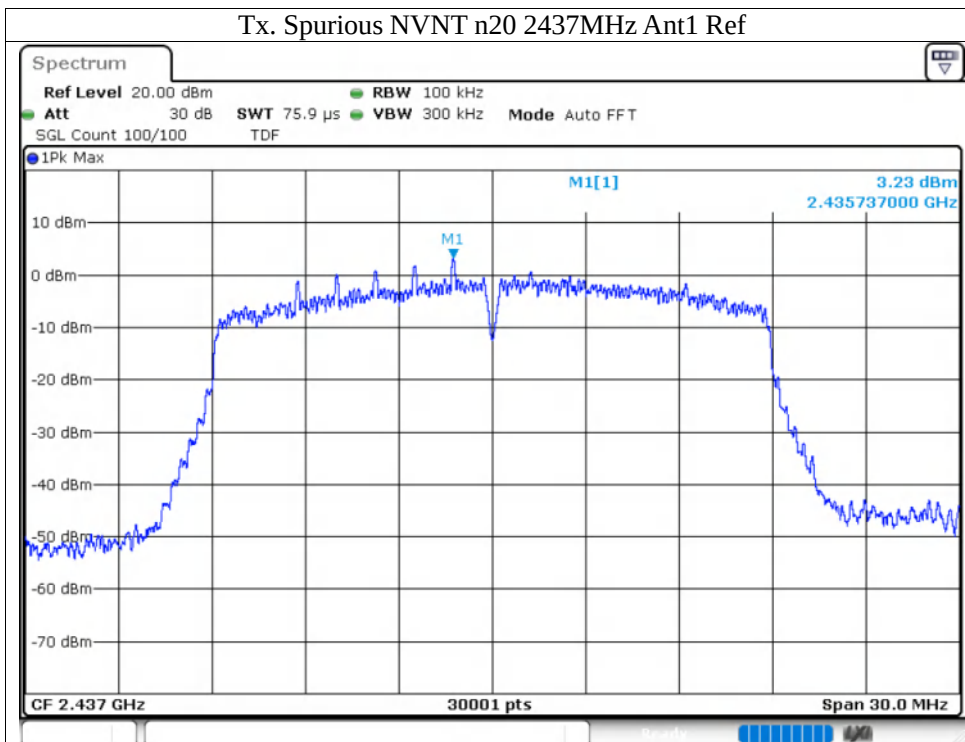
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



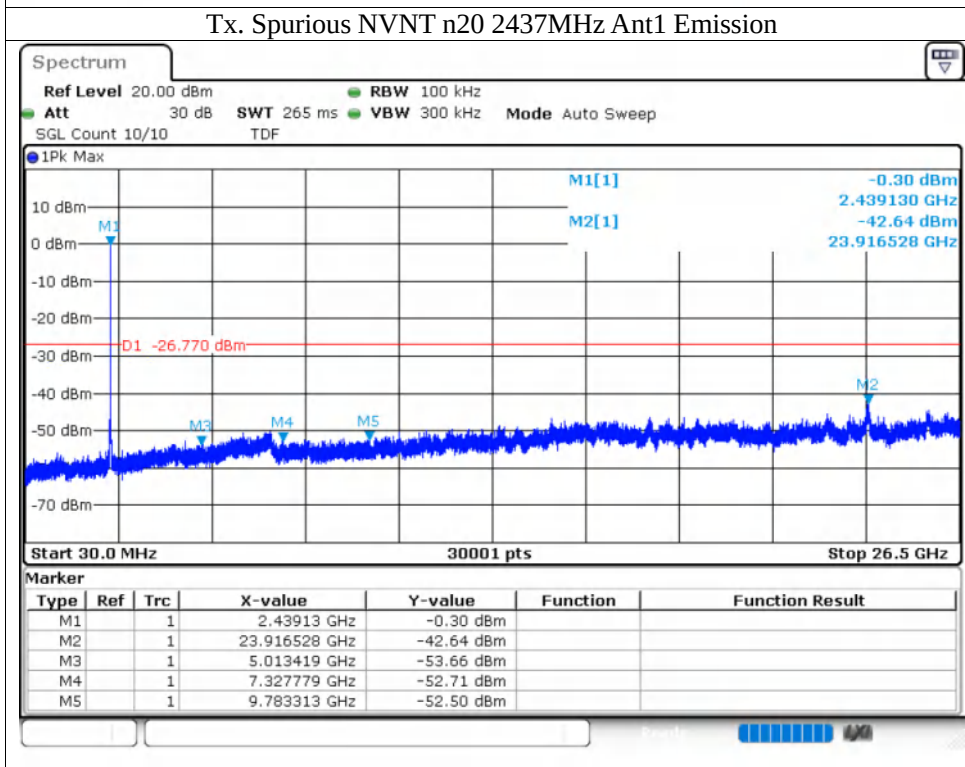
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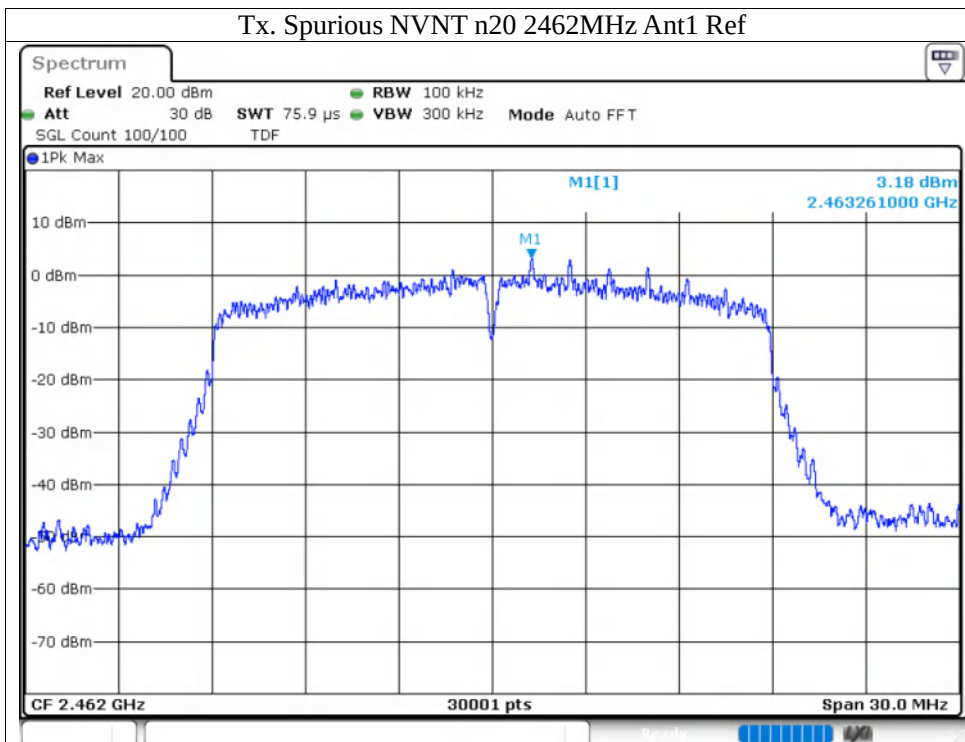
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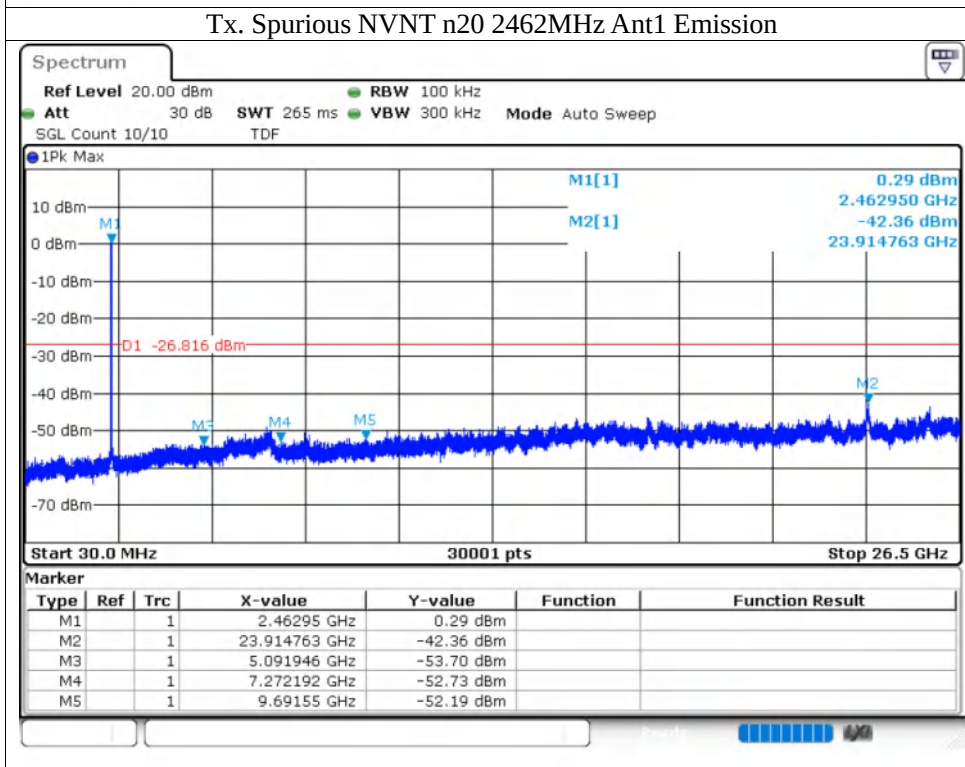
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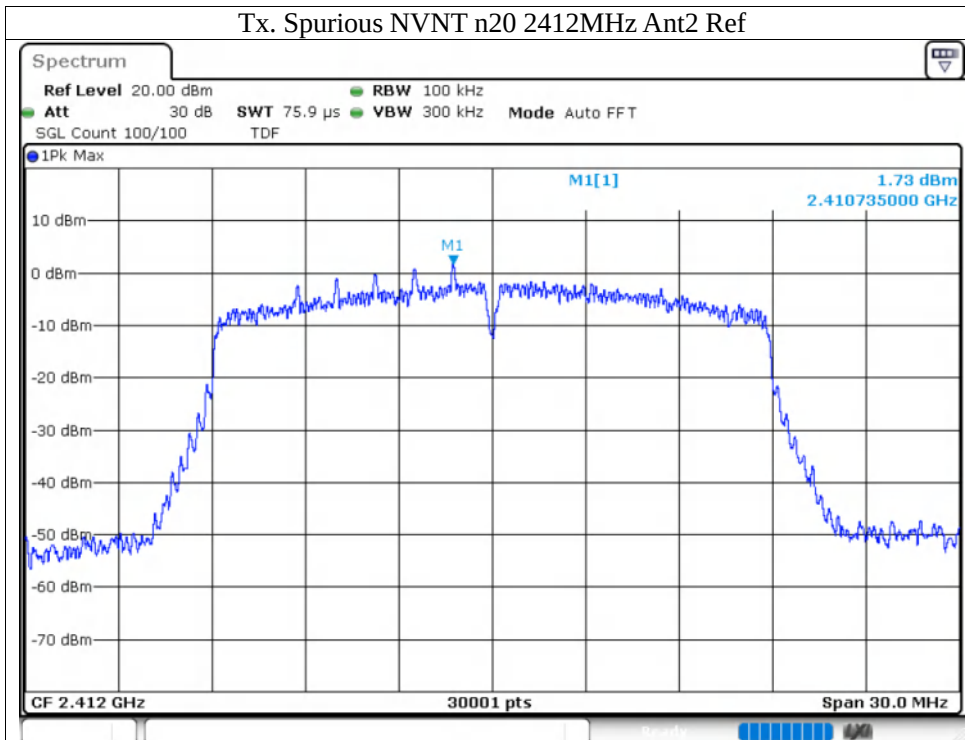
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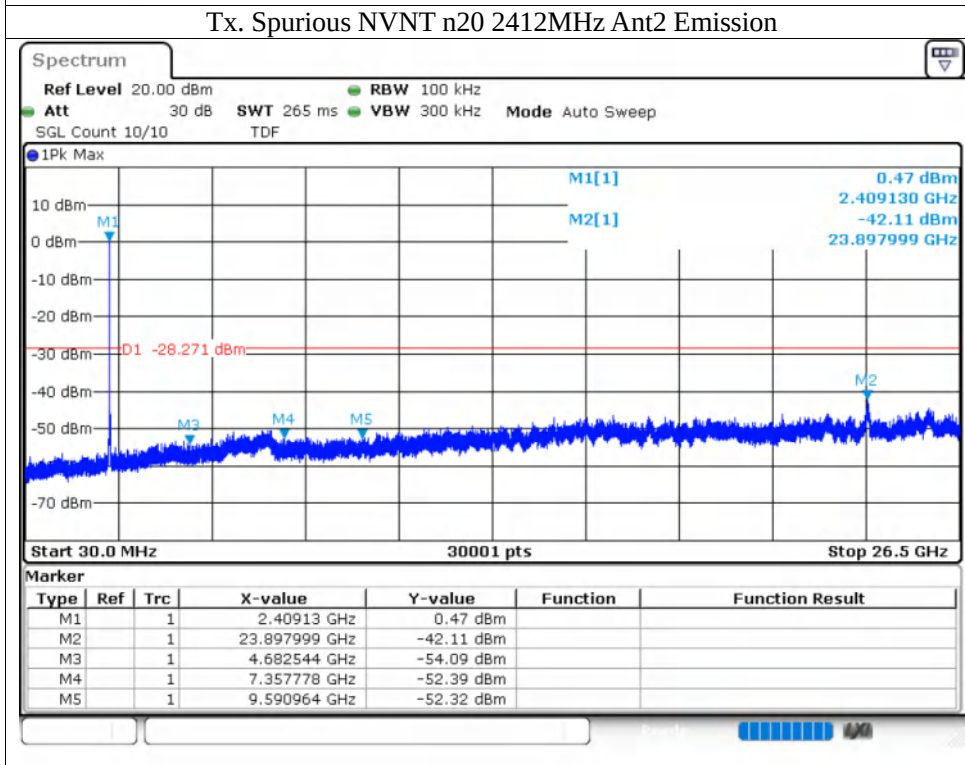
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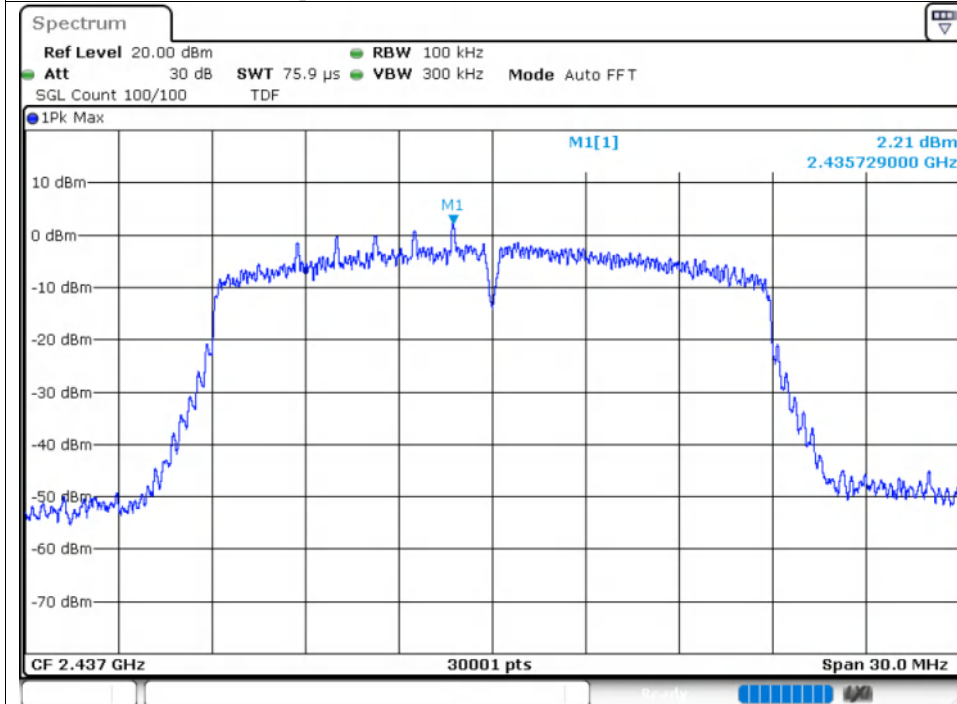
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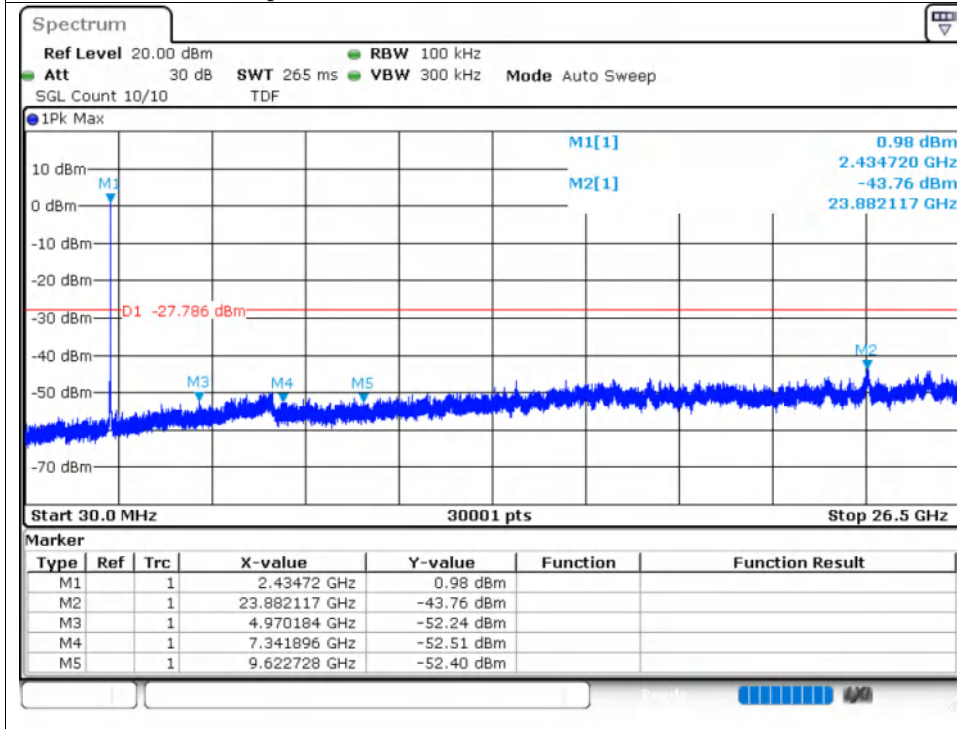
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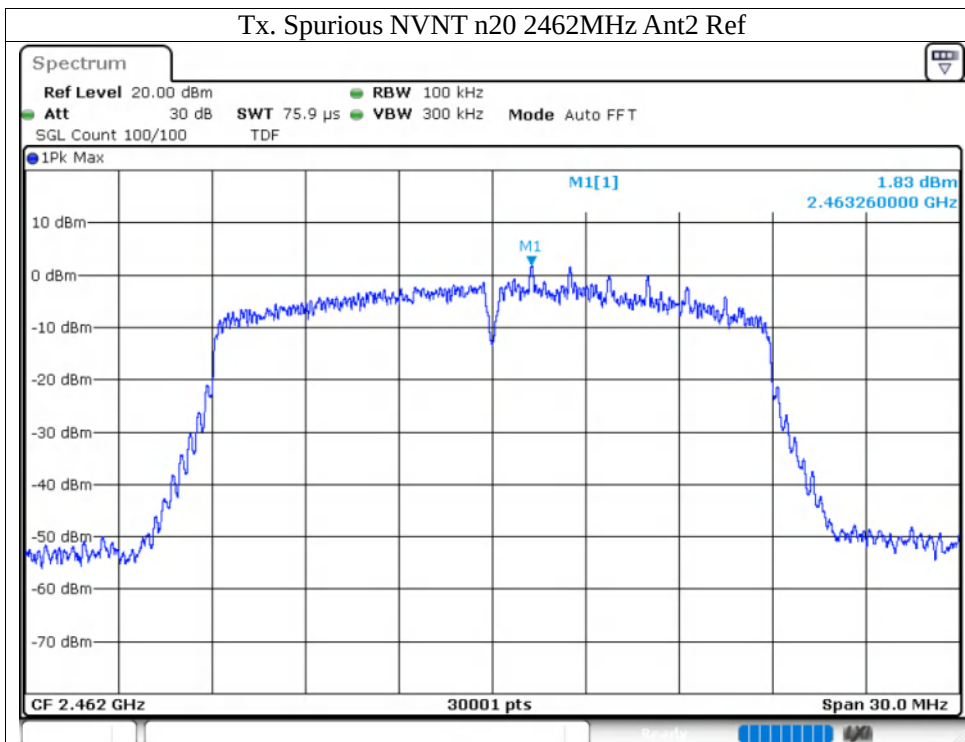
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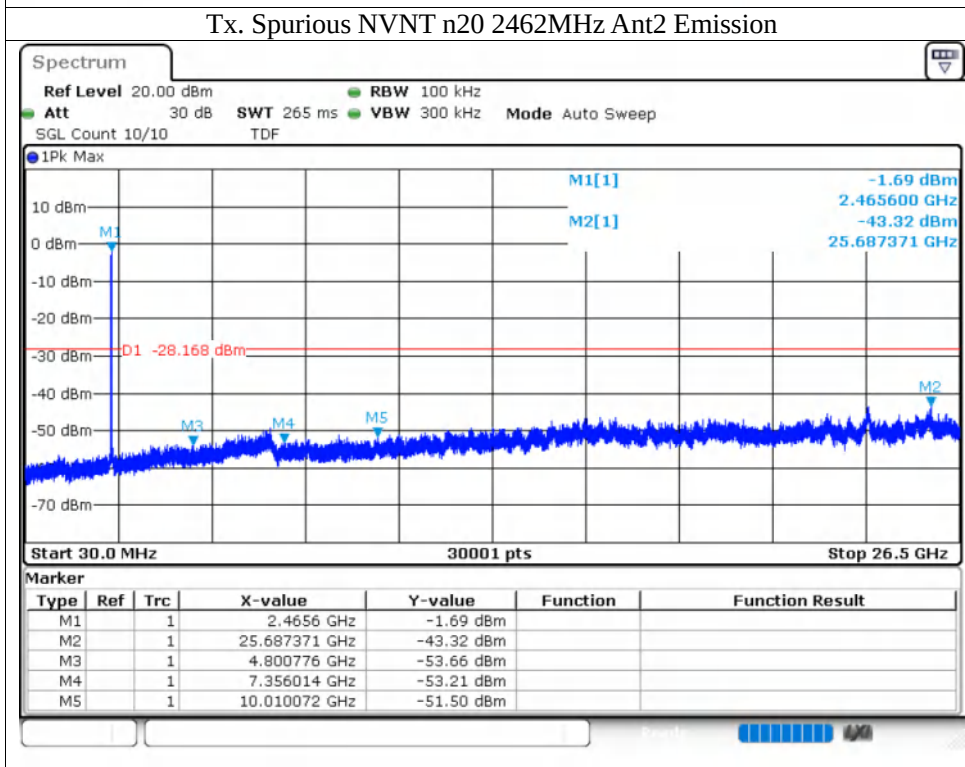
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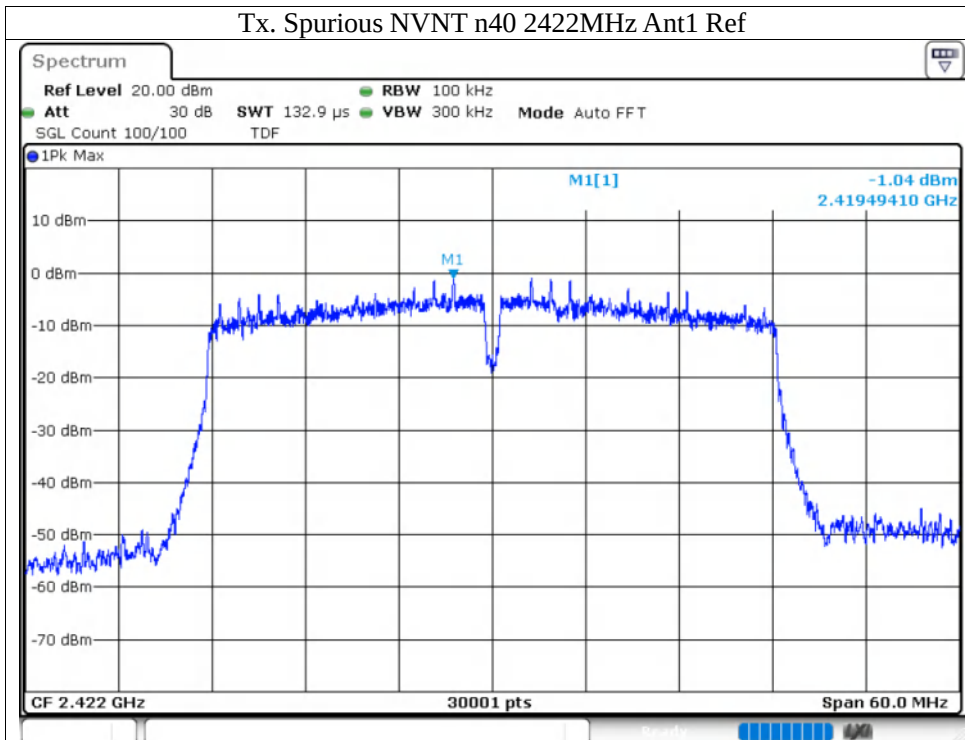
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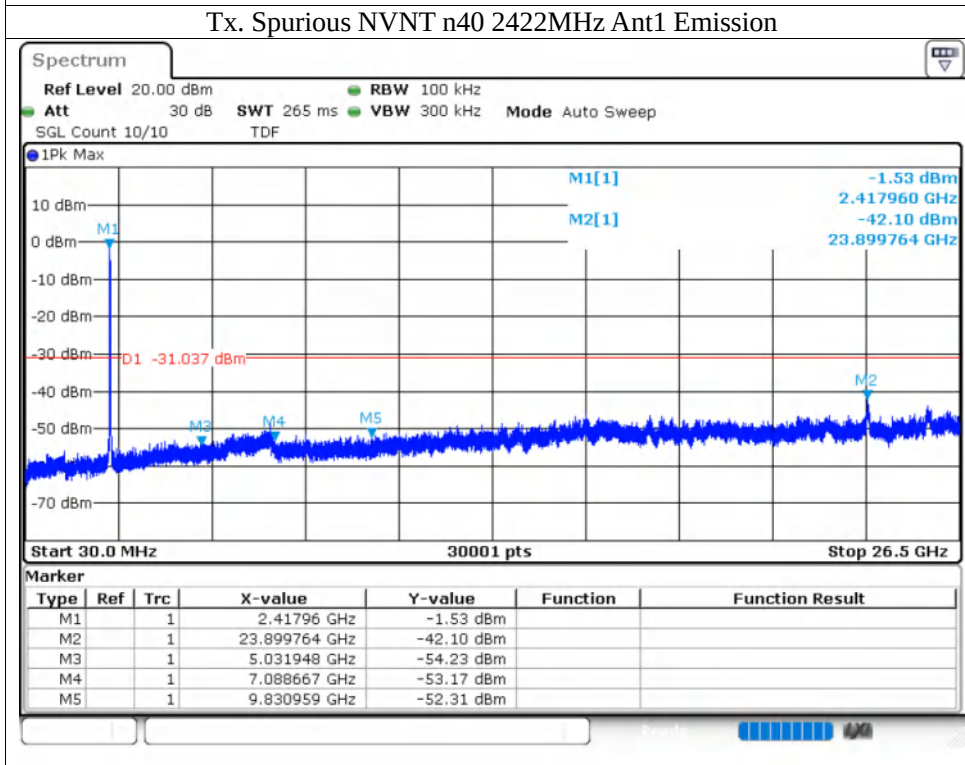
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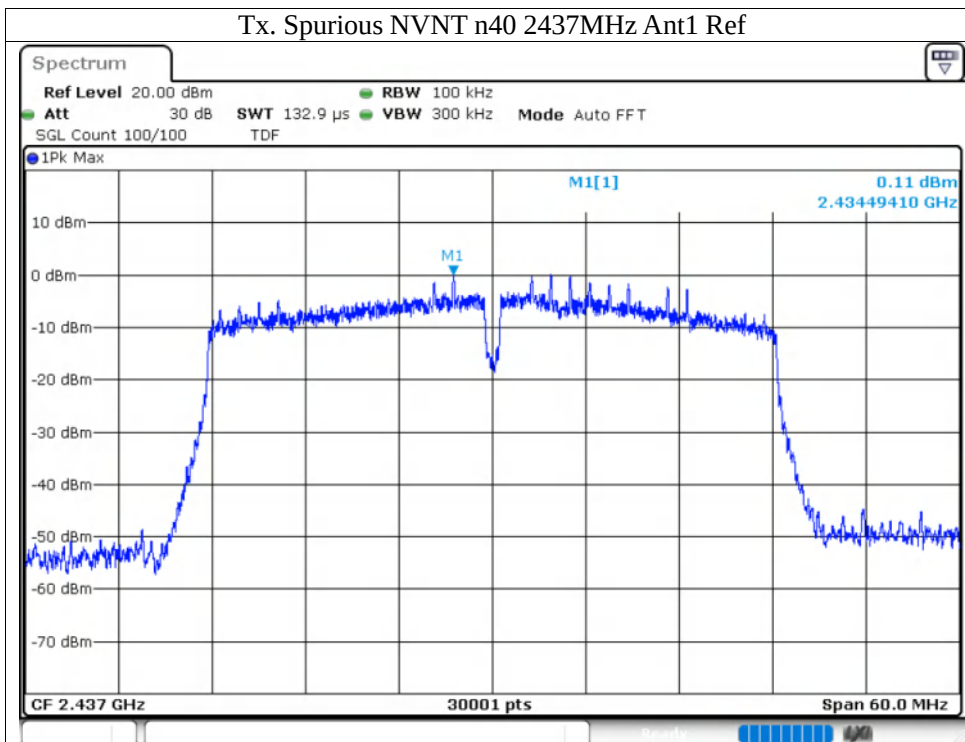
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



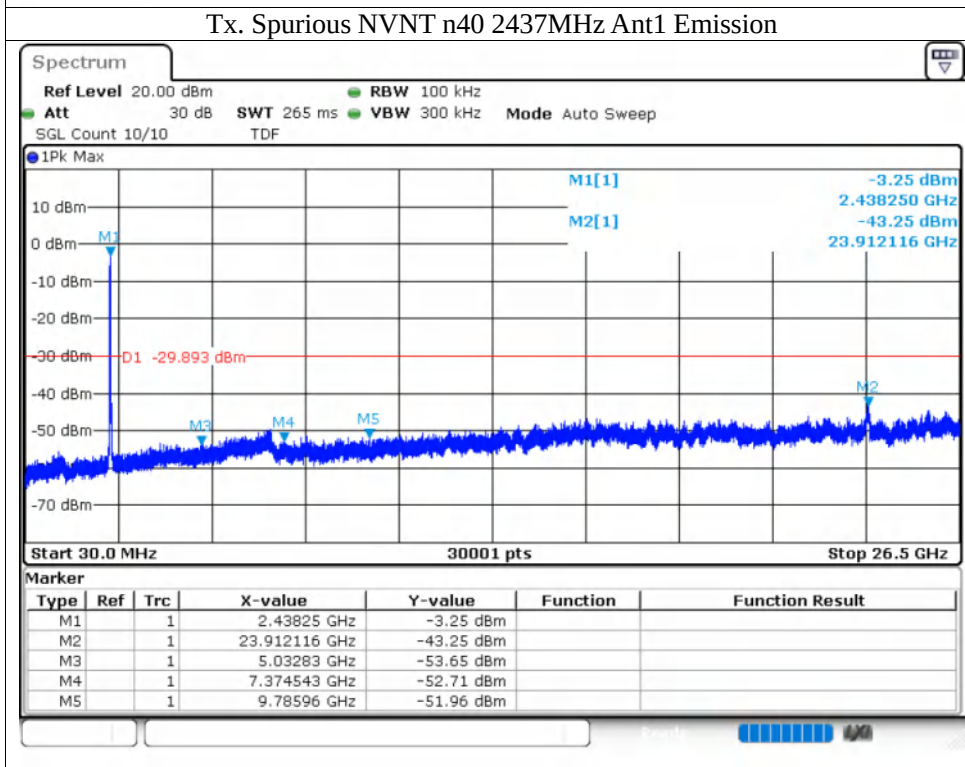
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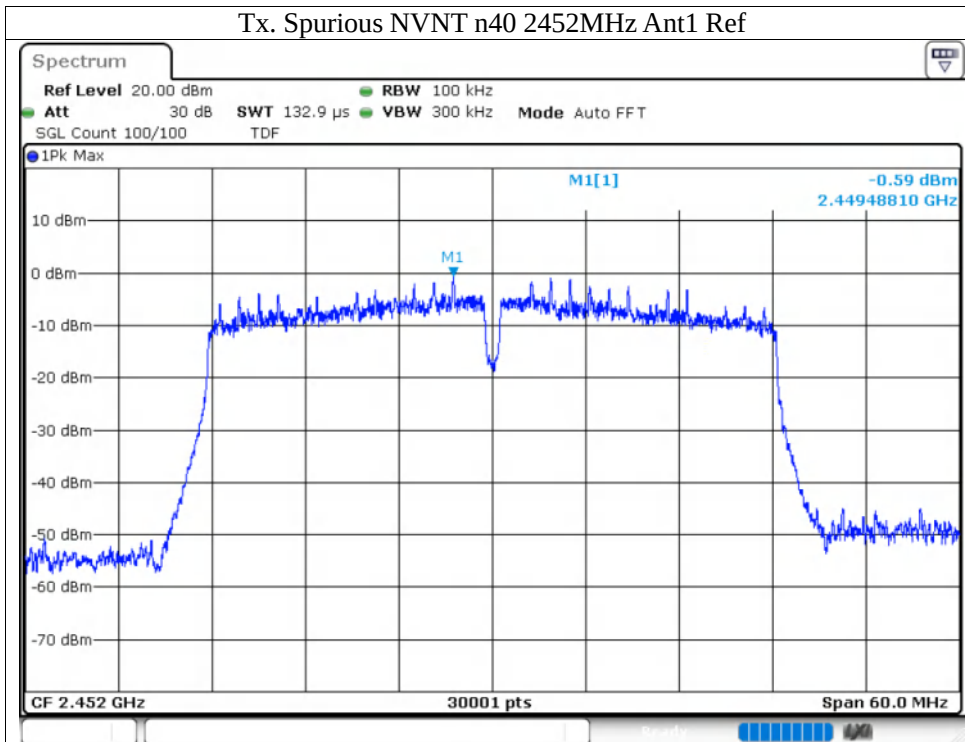
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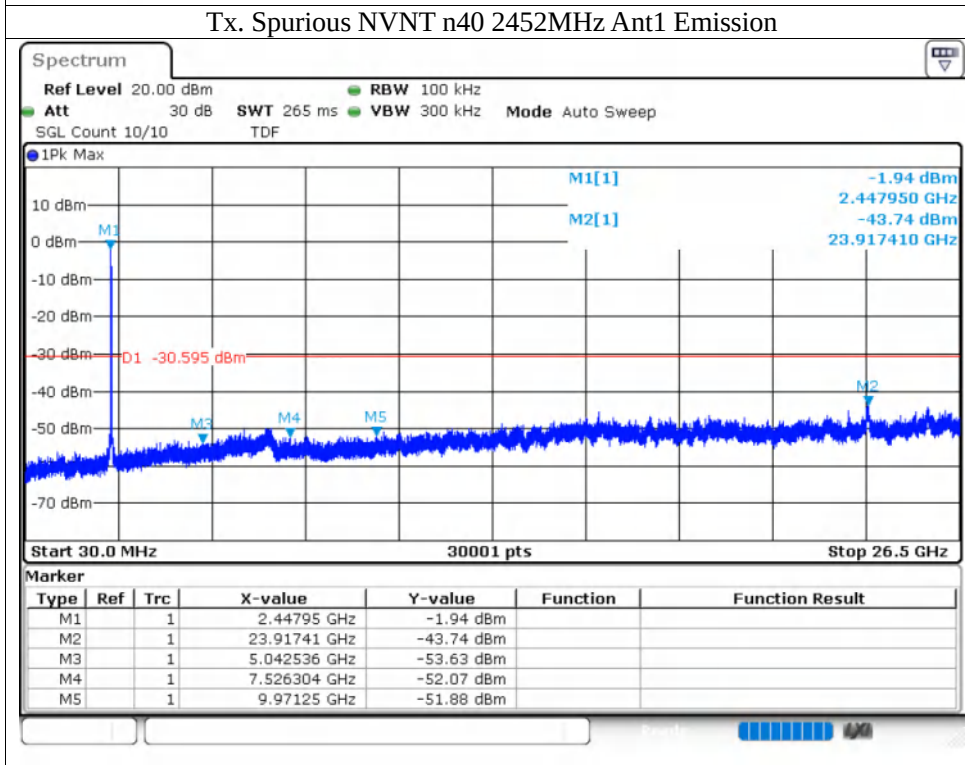
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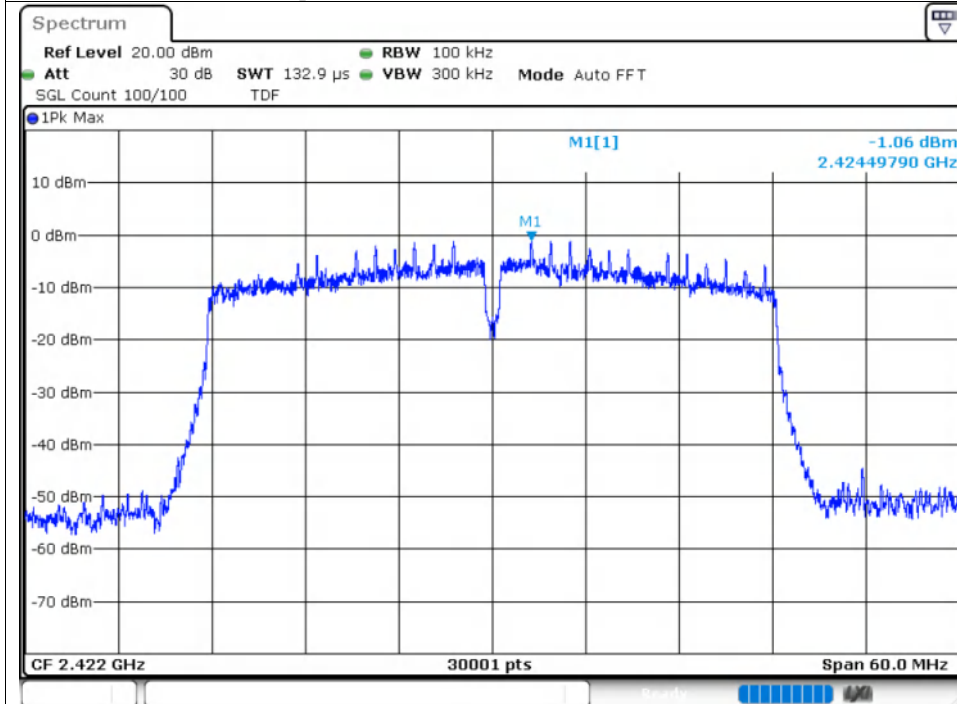
Tx. Spurious NVNT n40 2452MHz Ant1 Ref



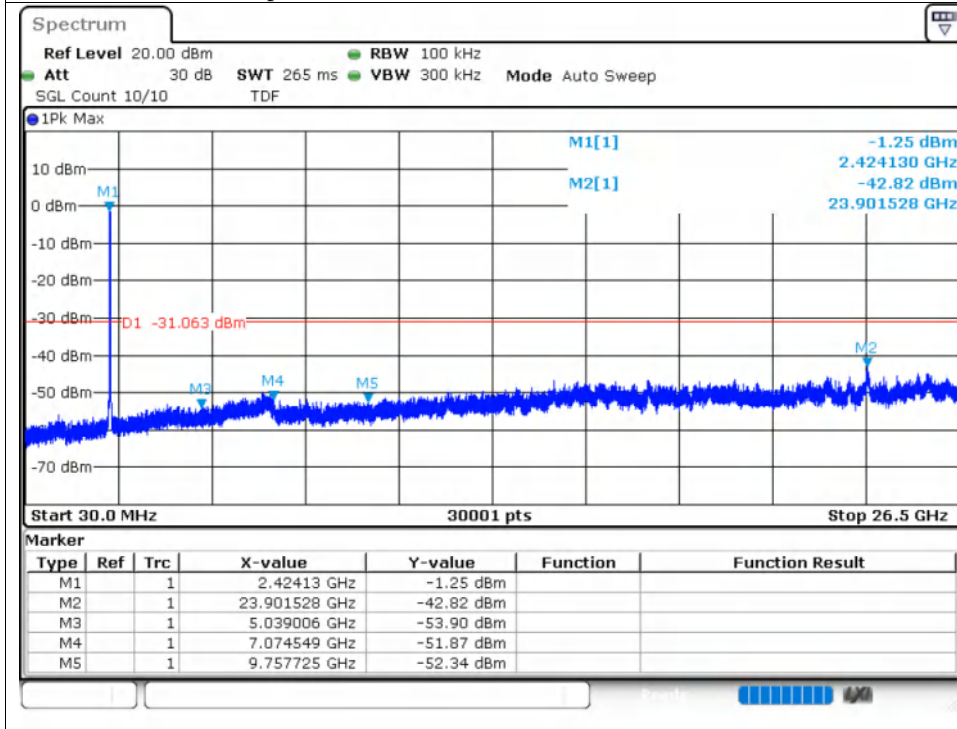
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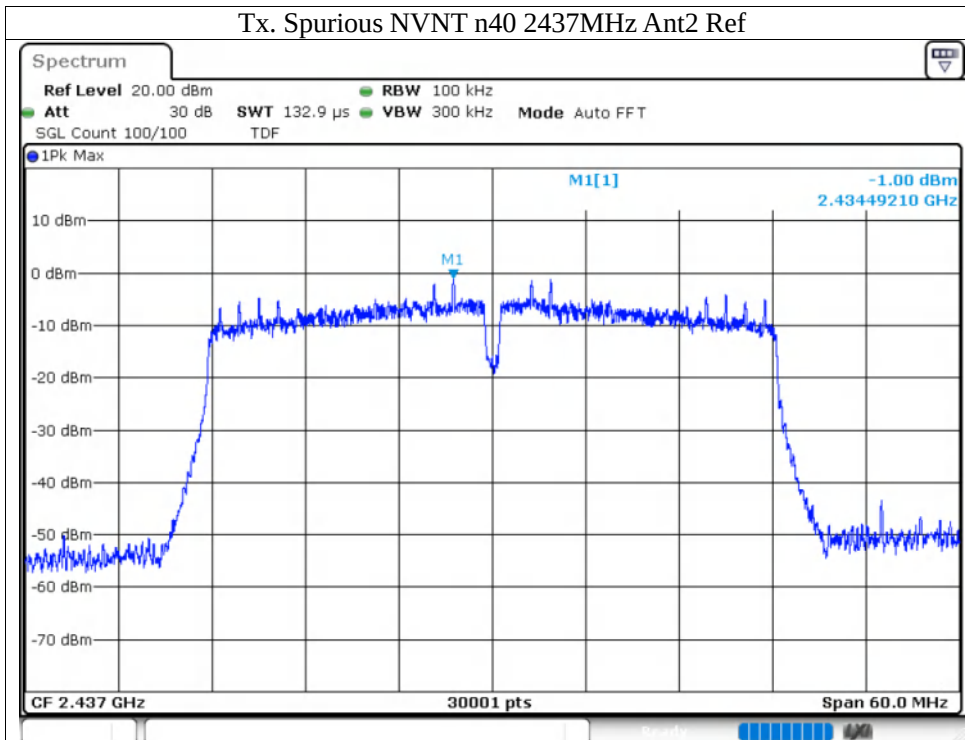
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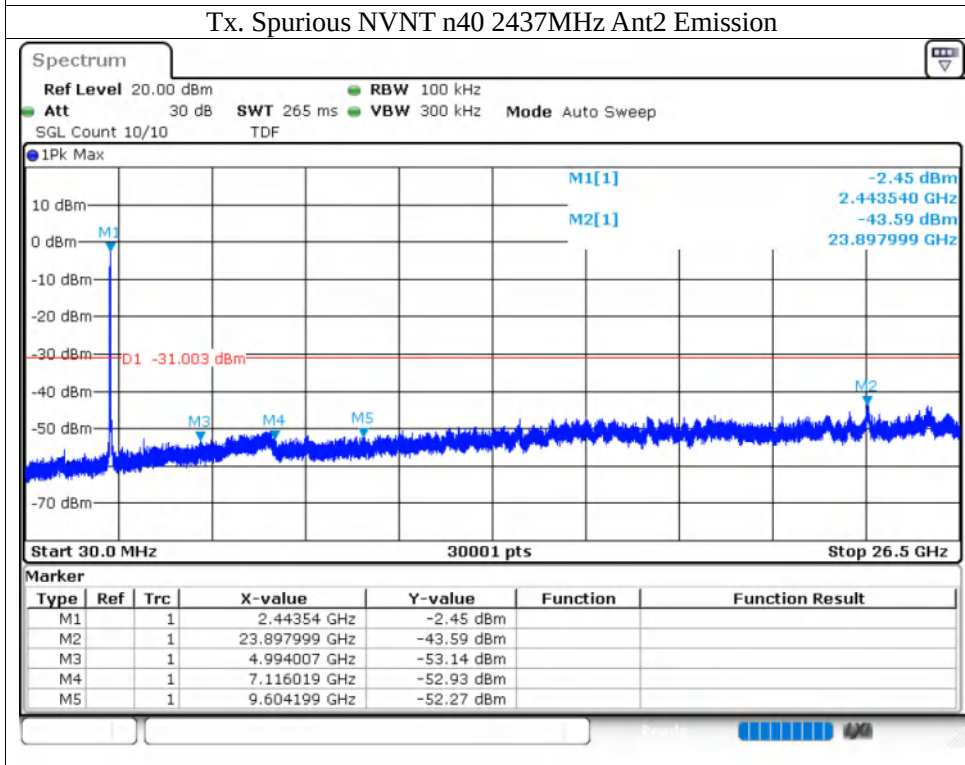
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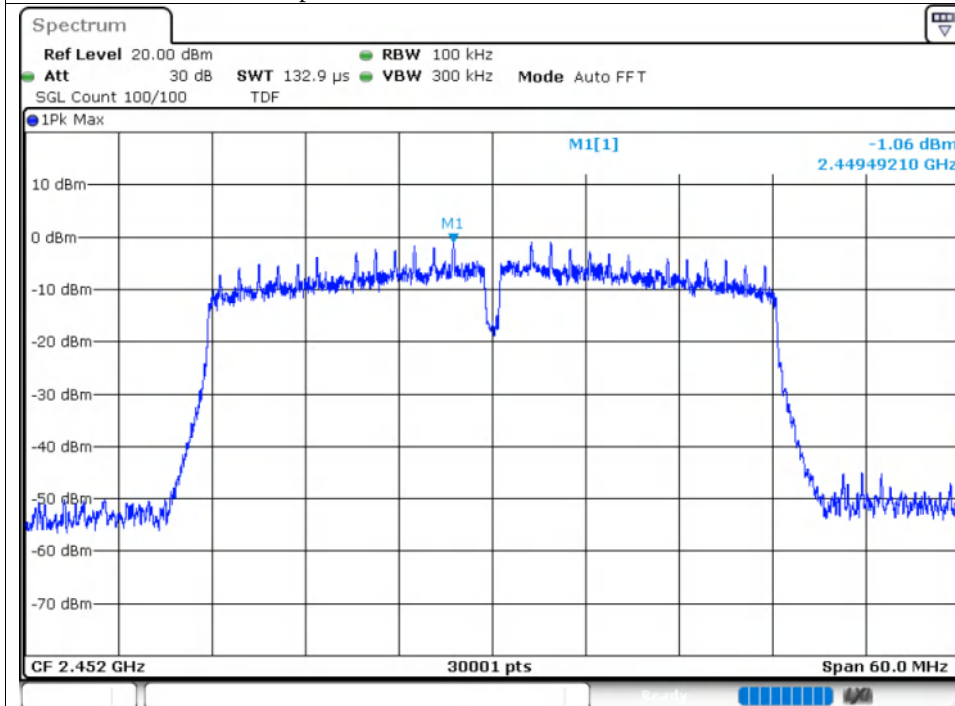
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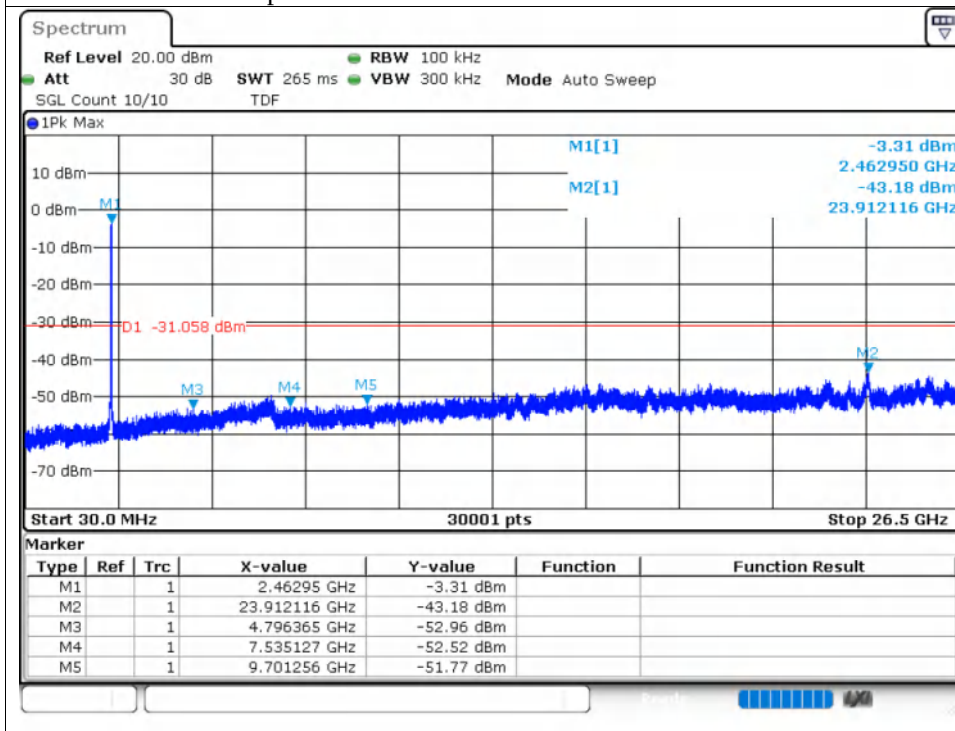
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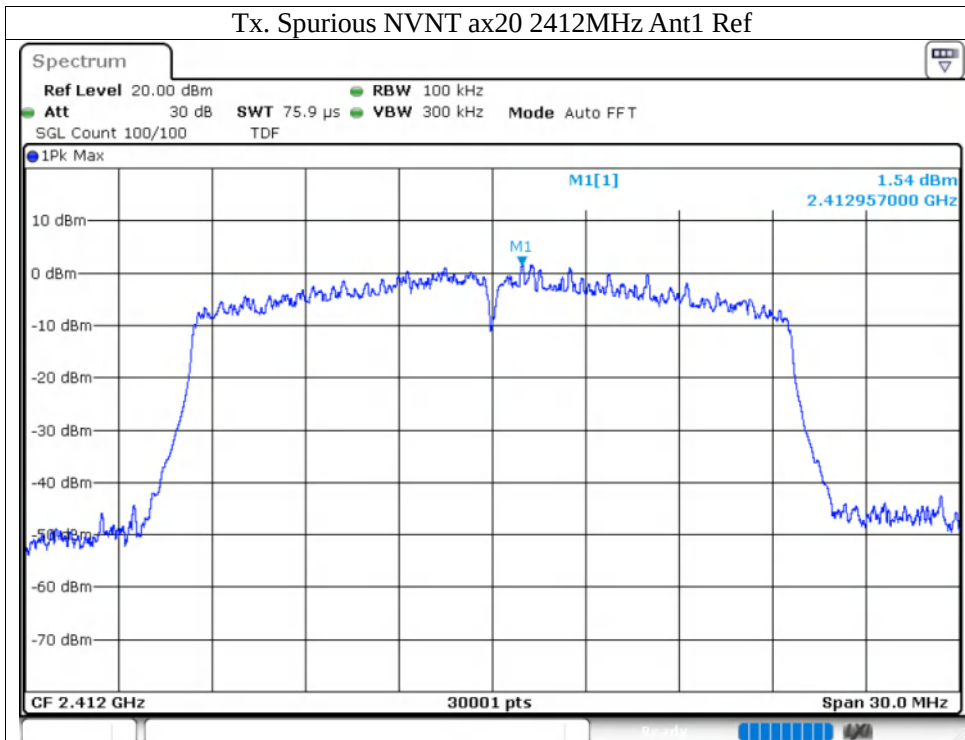
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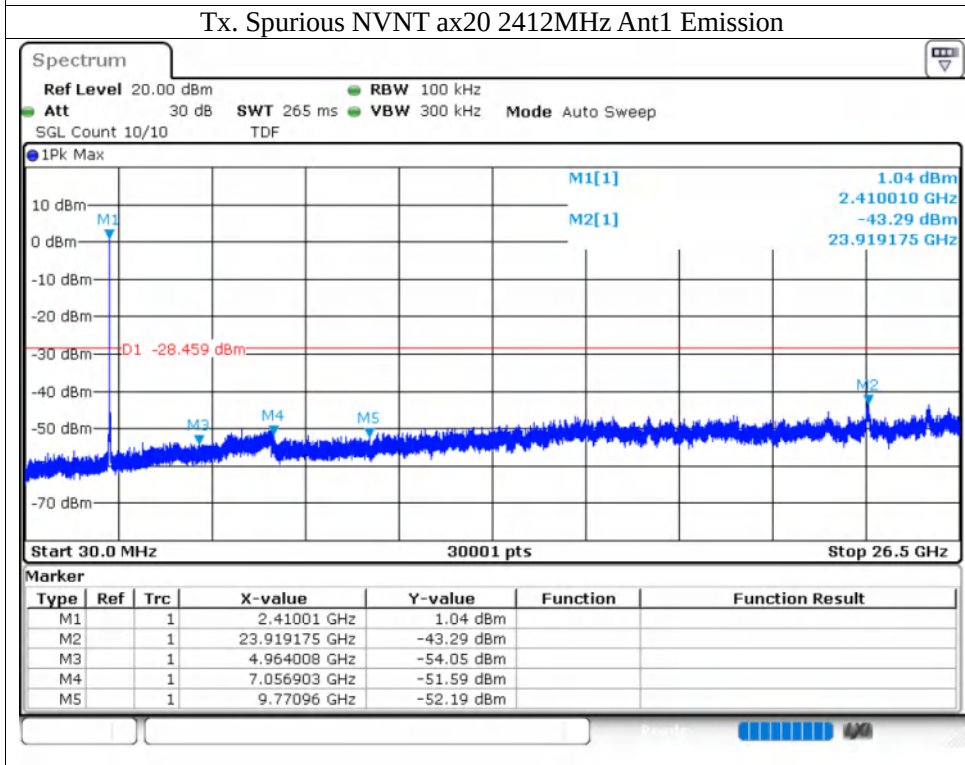
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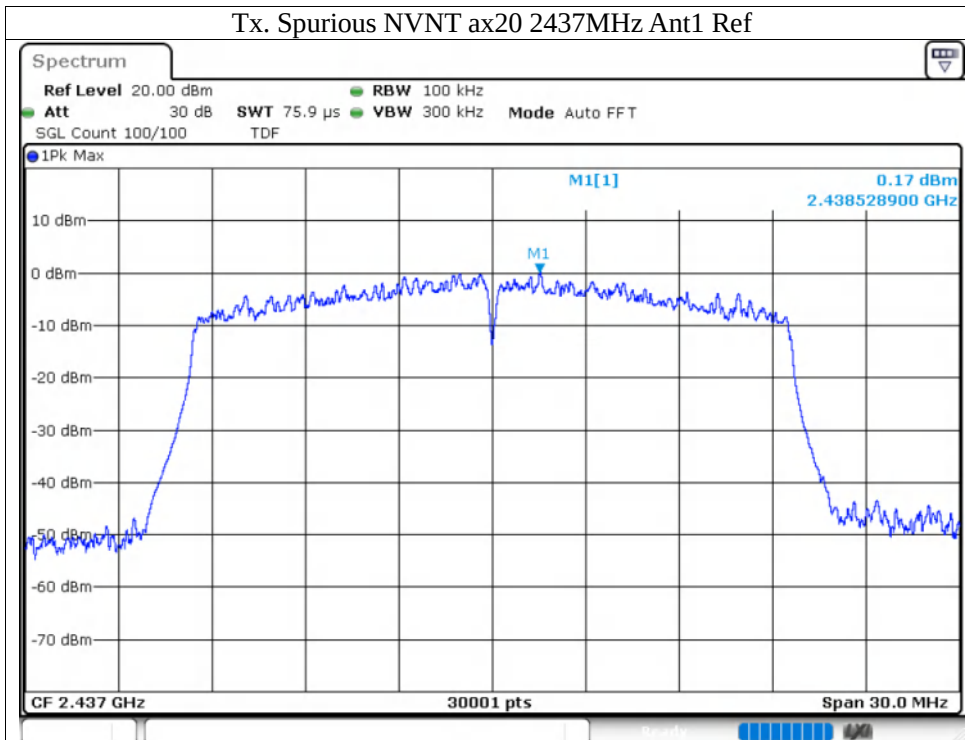
Tx. Spurious NVNT ax20 2412MHz Ant1 Ref



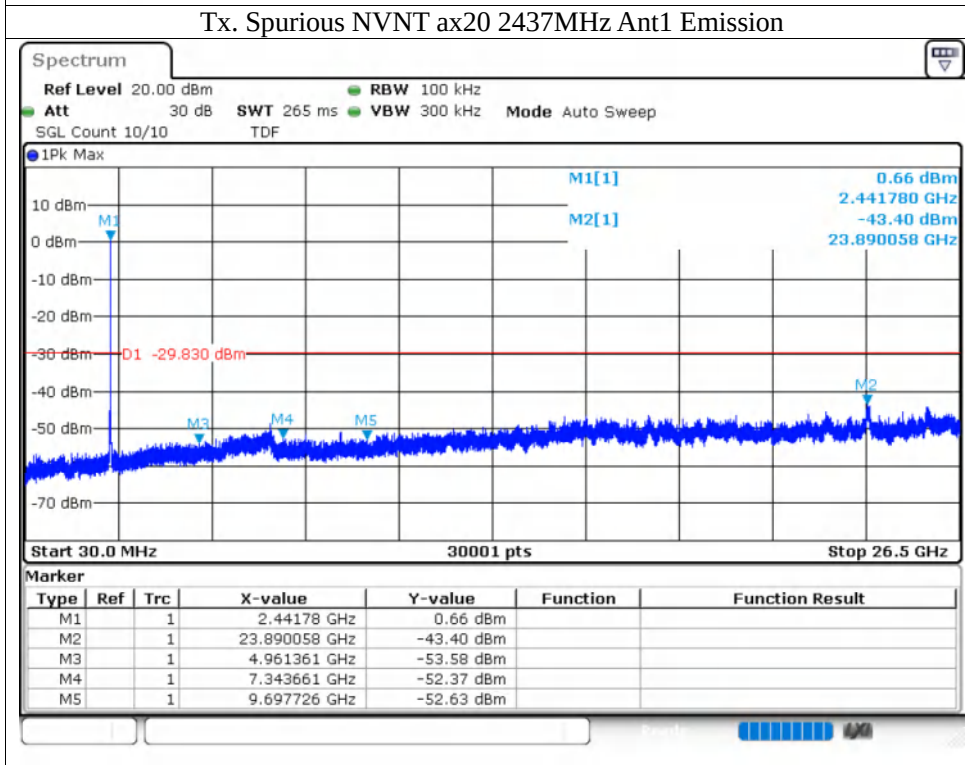
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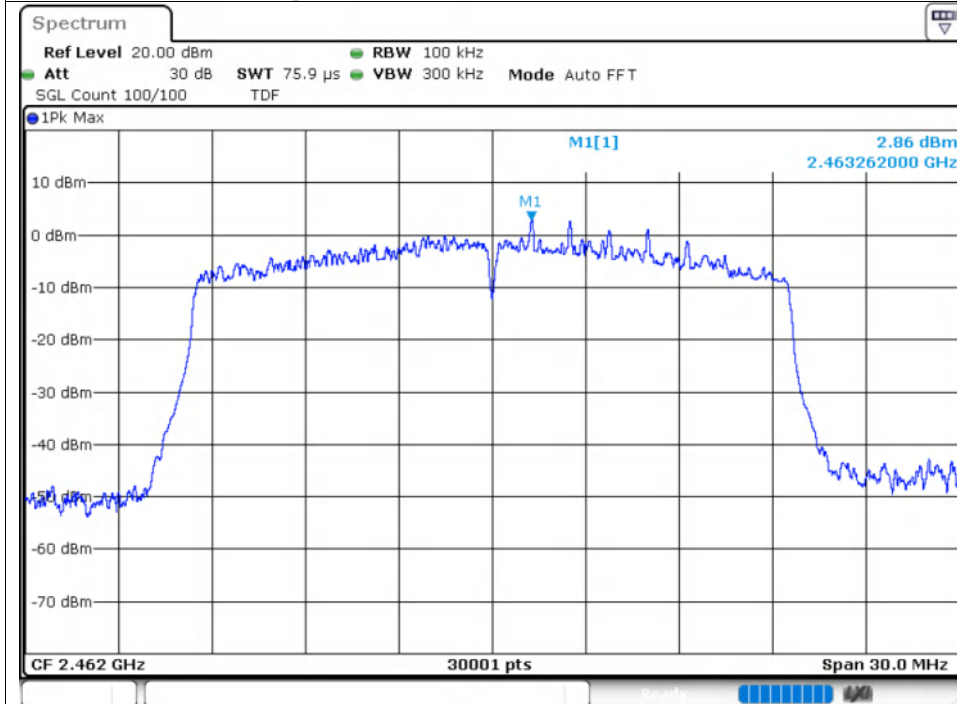
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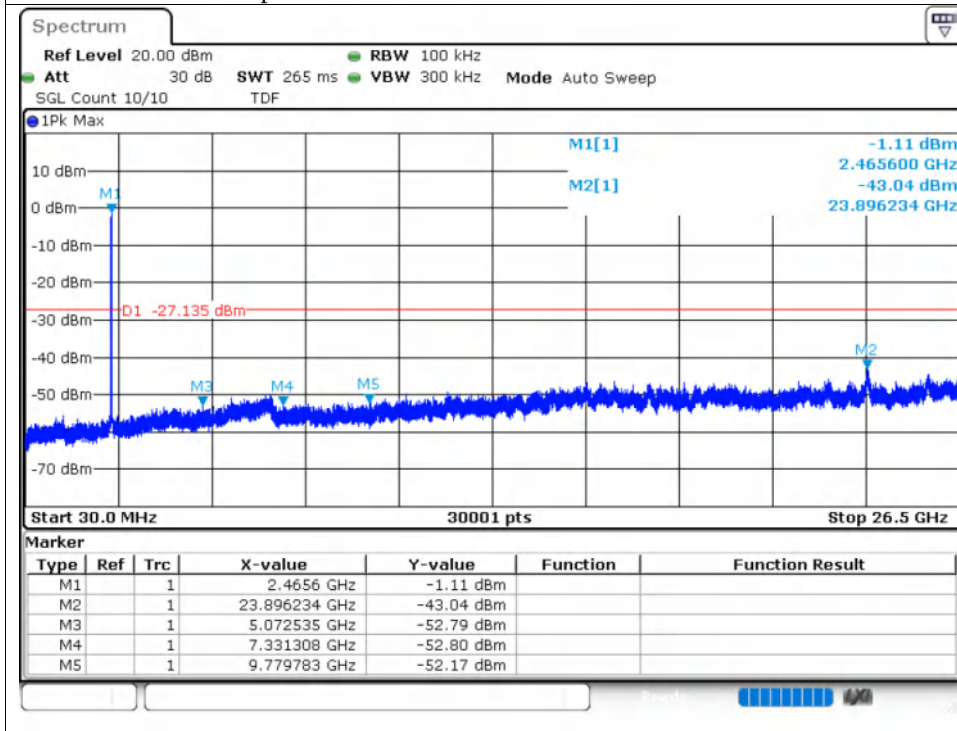
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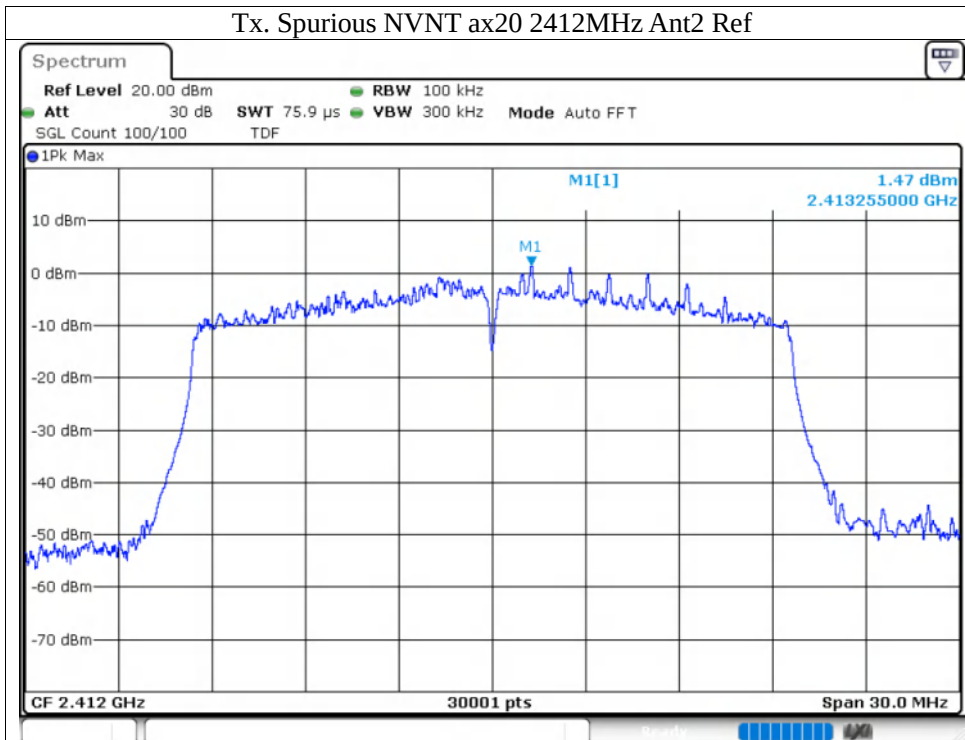
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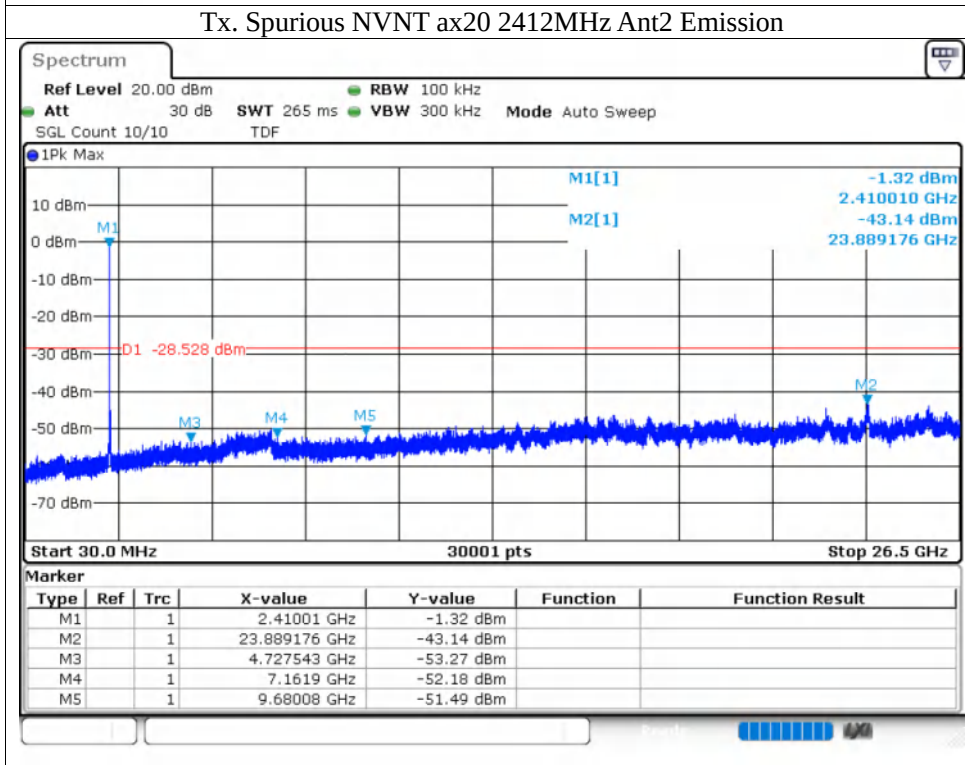
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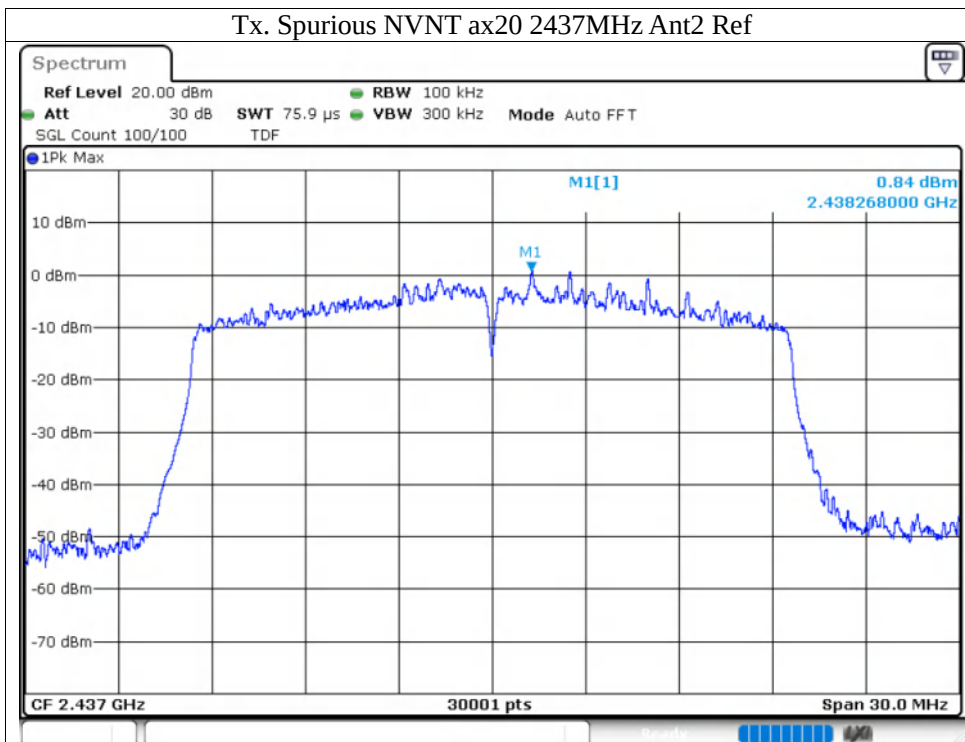
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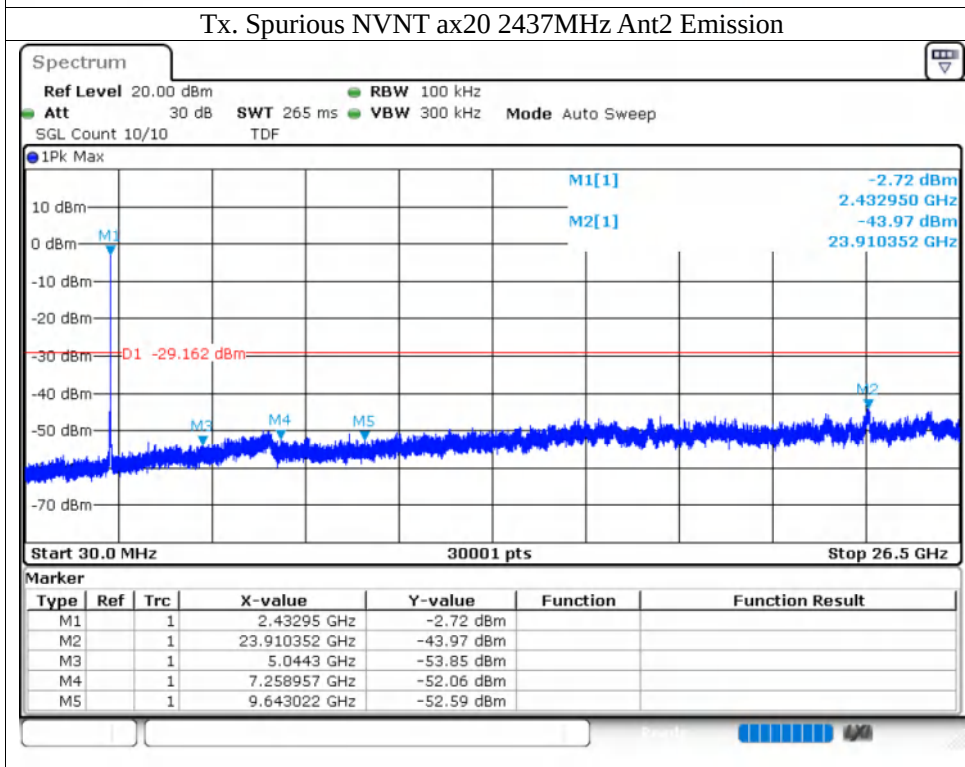
Tx. Spurious NVNT ax20 2412MHz Ant2 Emission



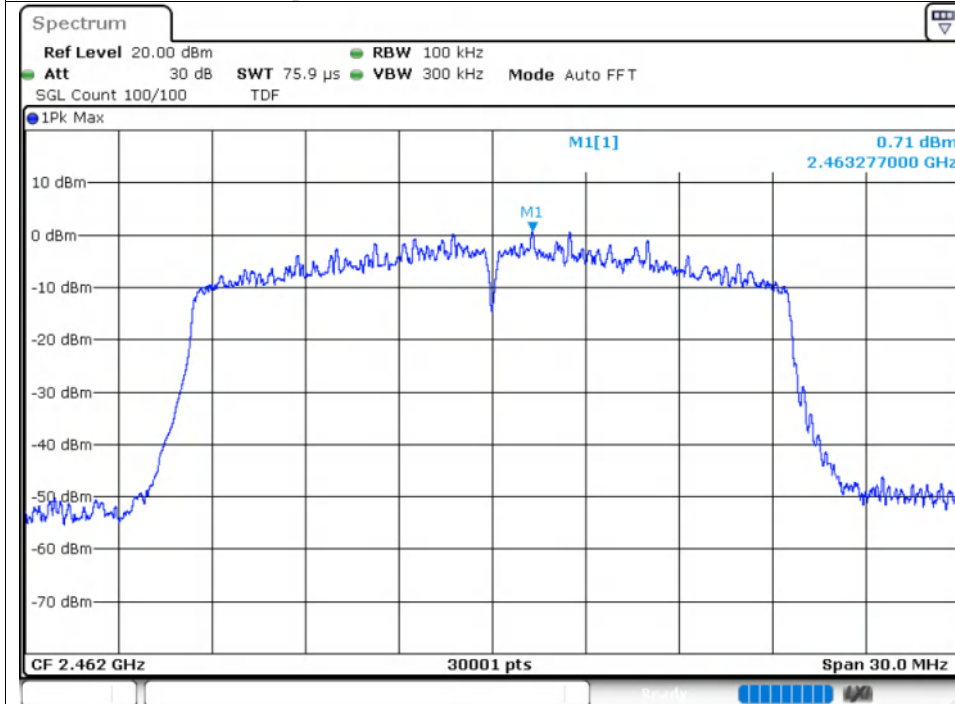
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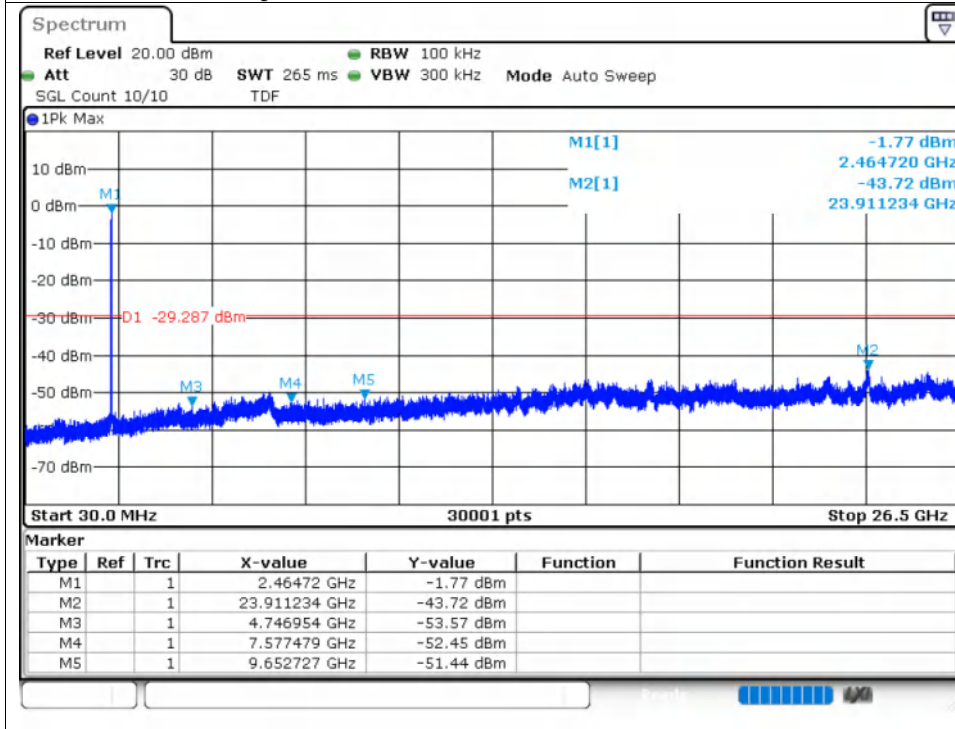
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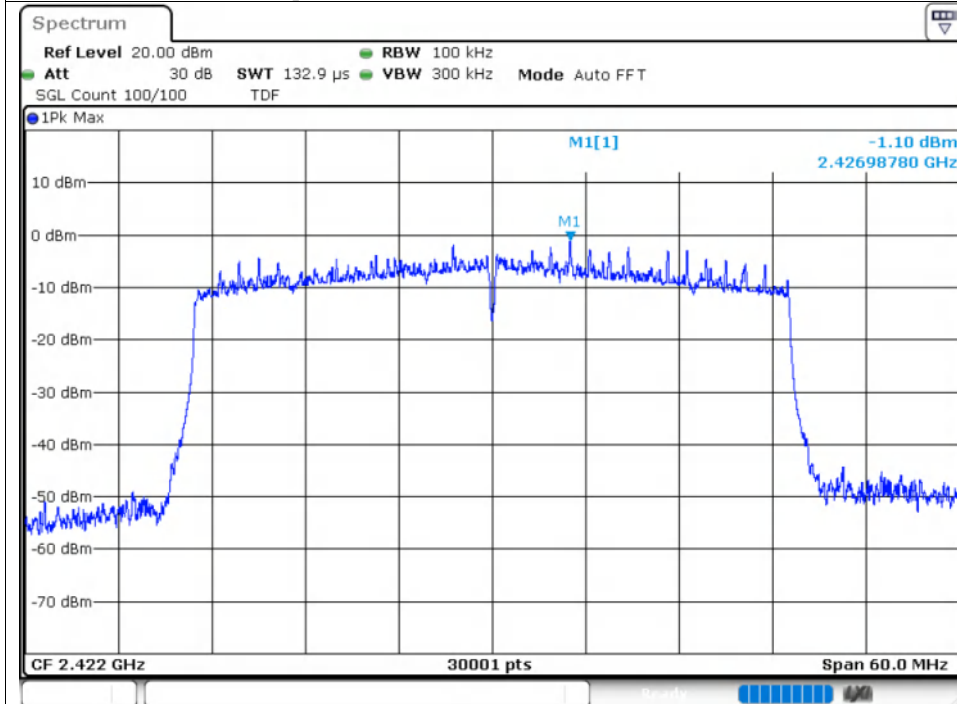
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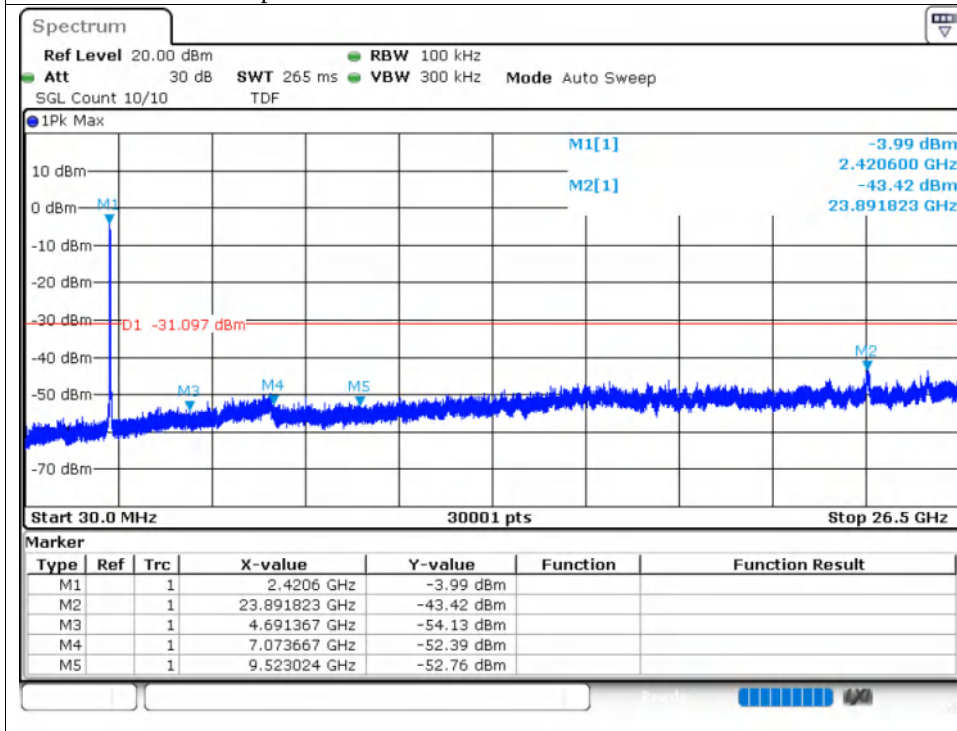
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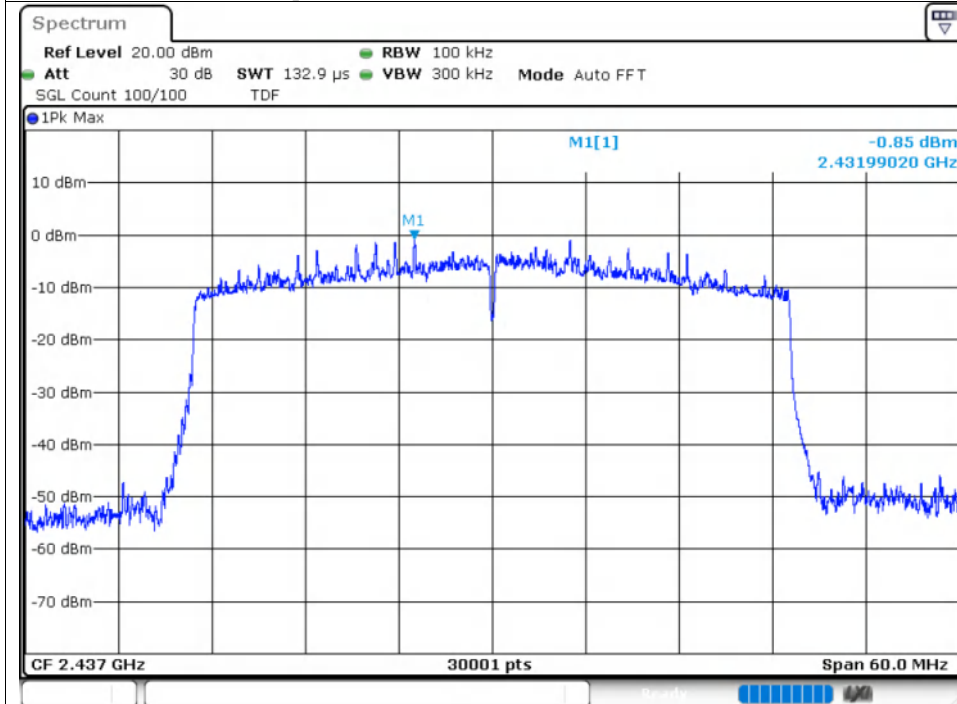
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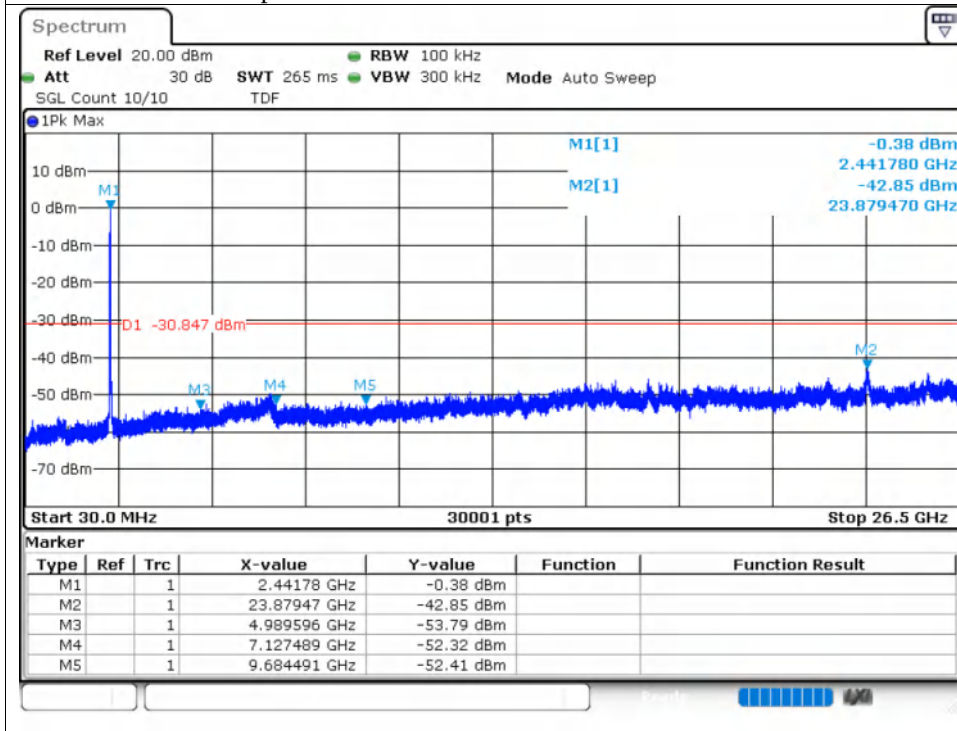
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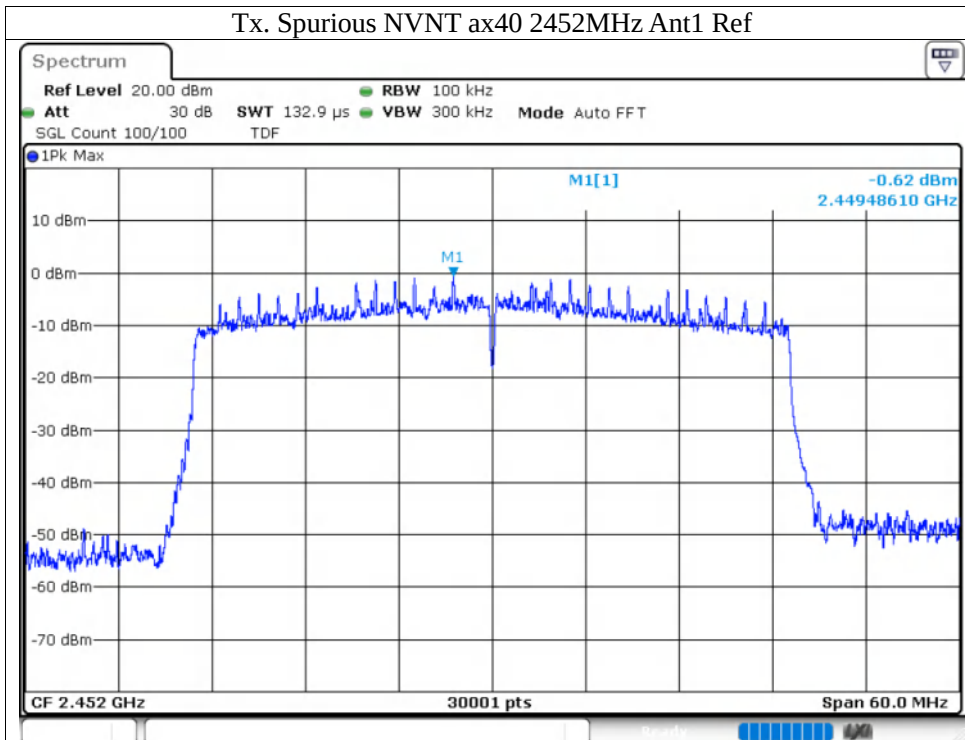
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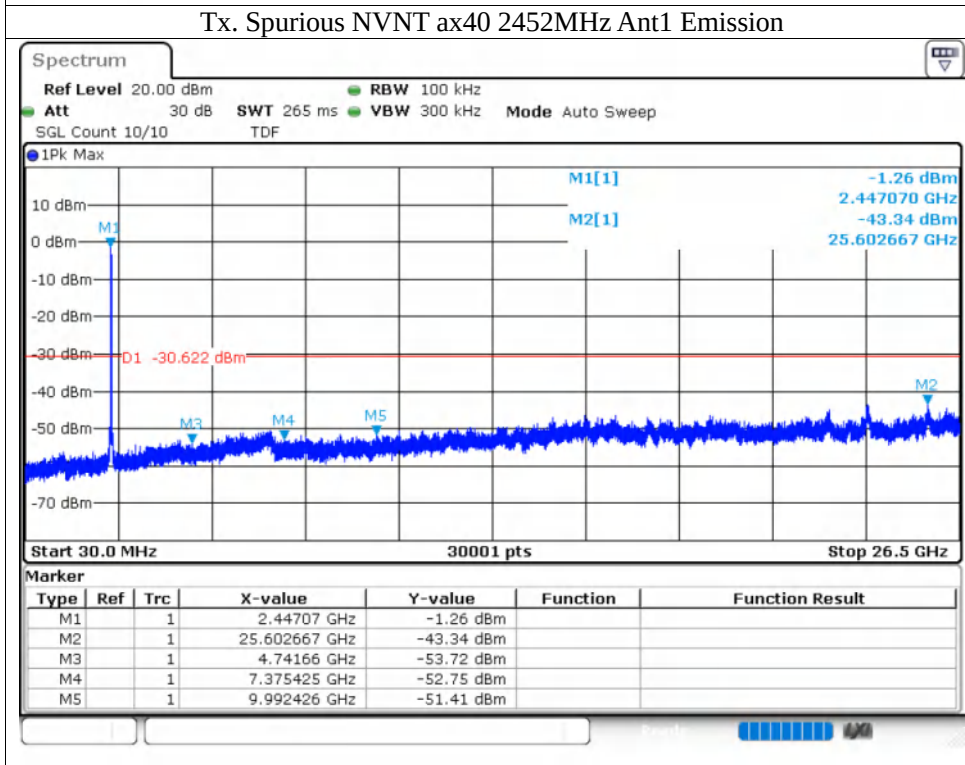
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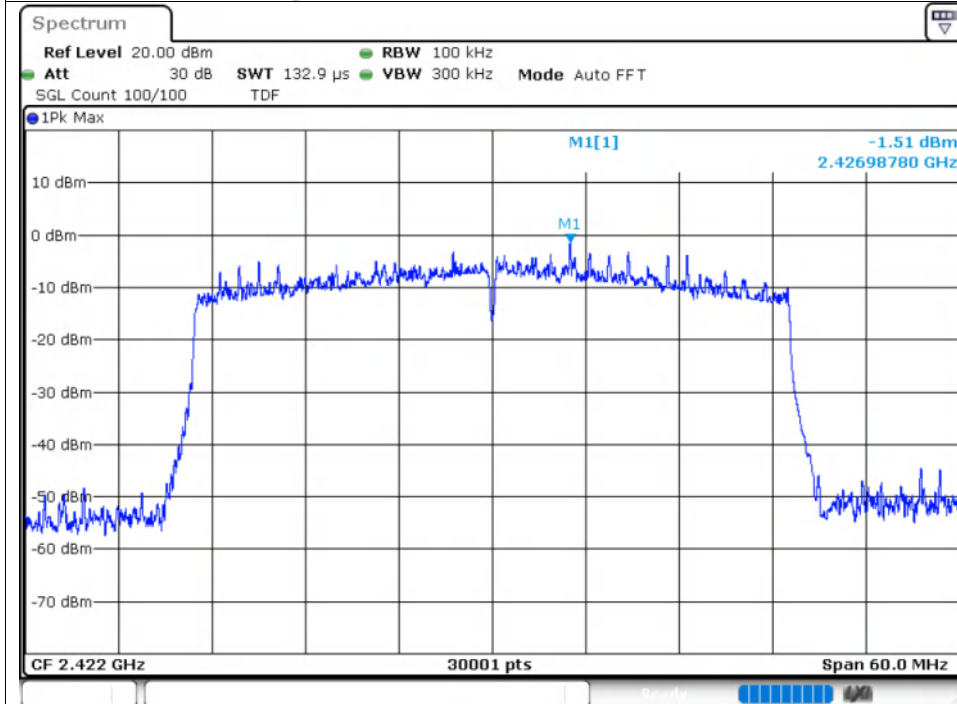
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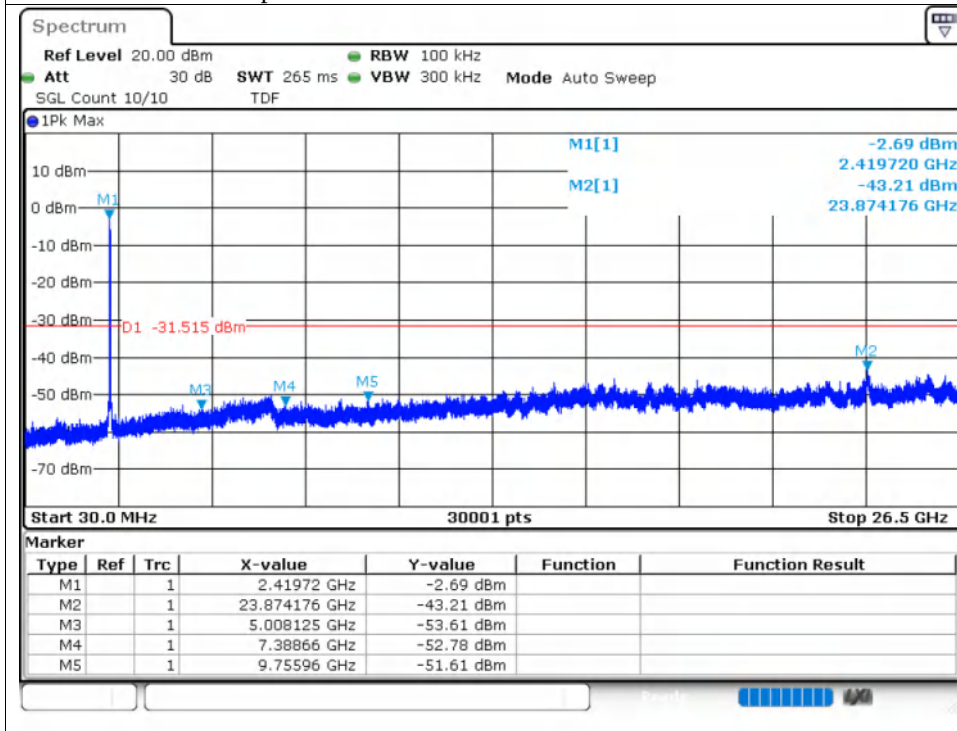
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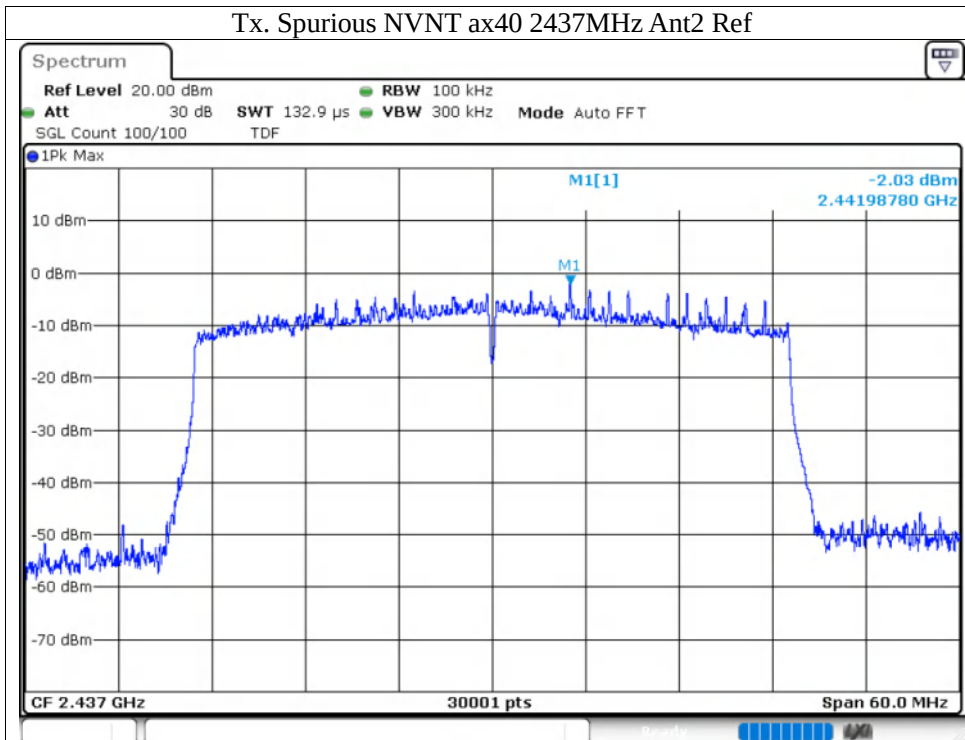
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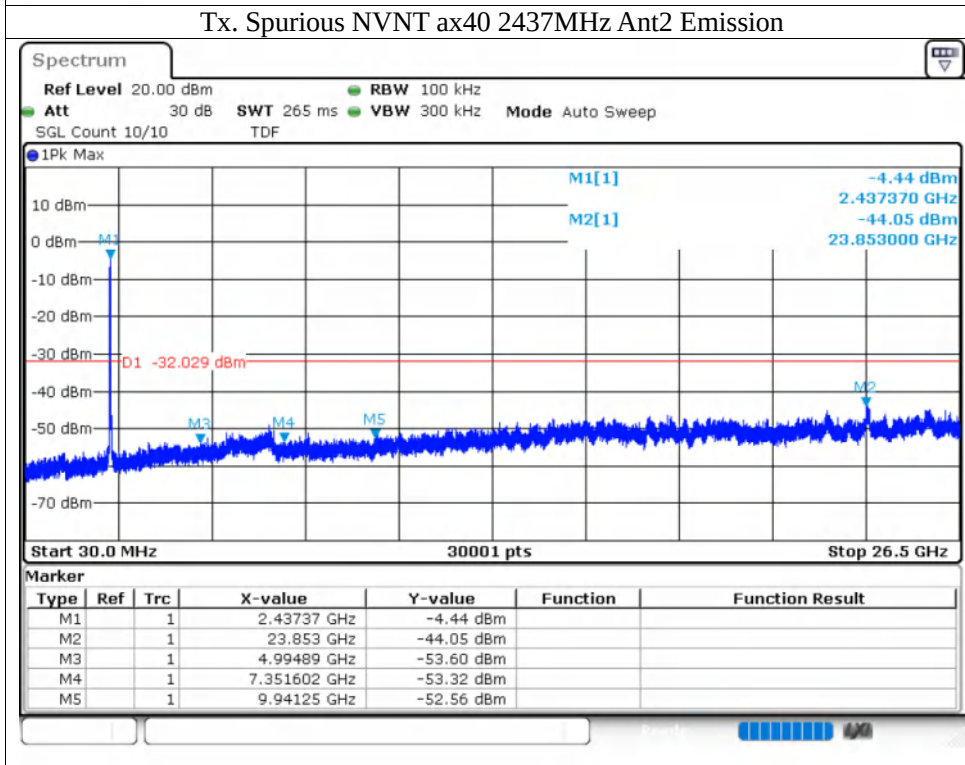
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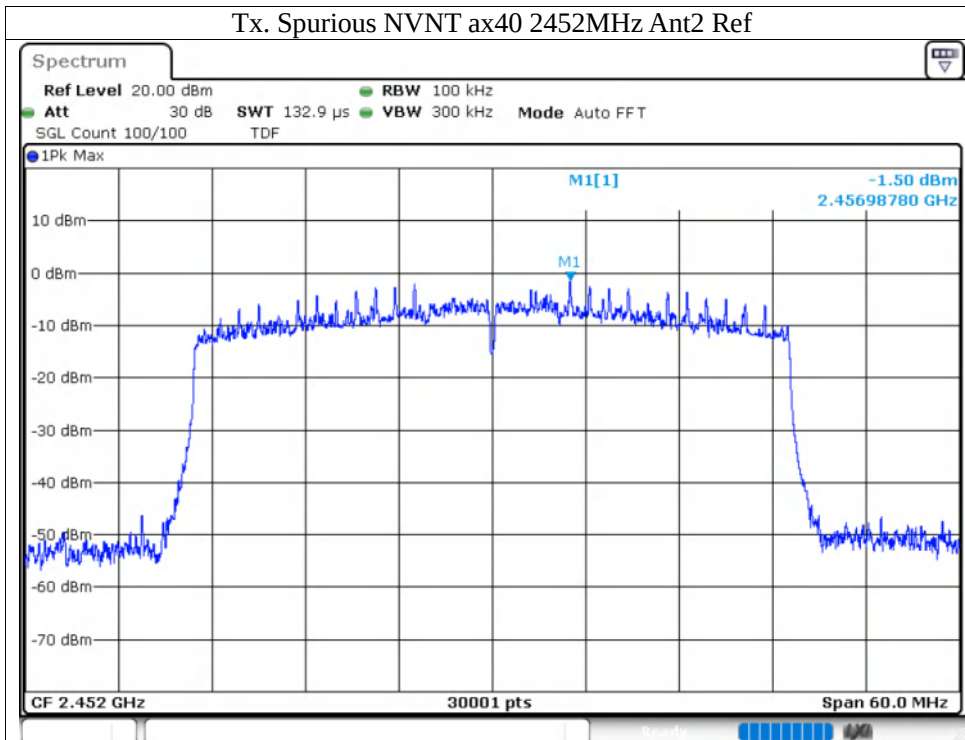
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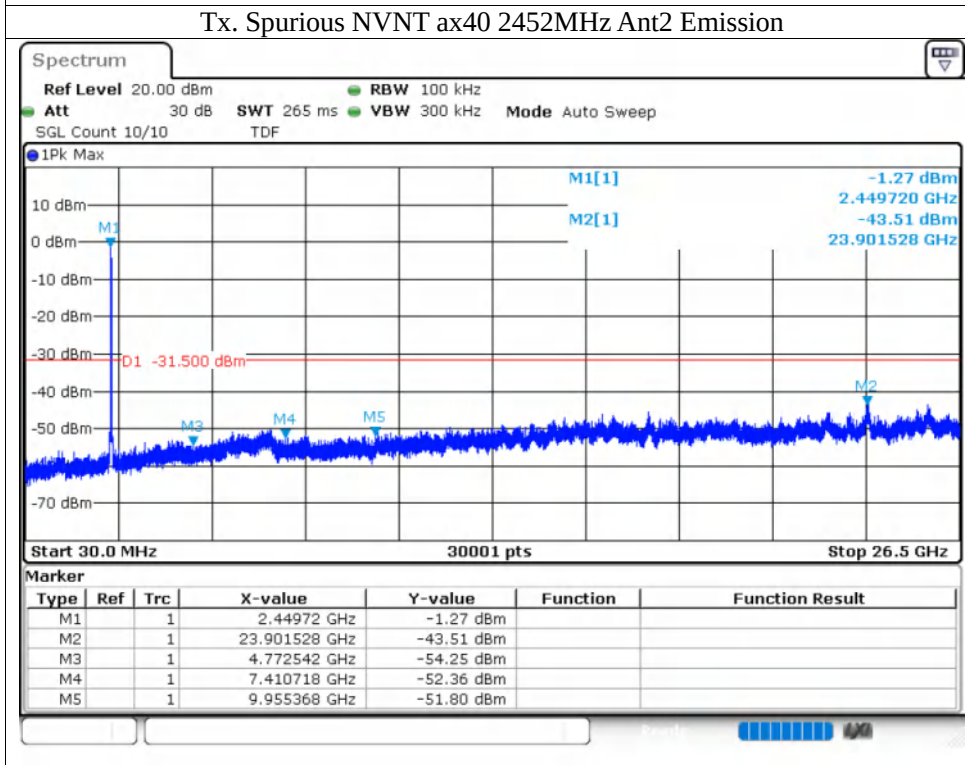
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Tx. Spurious NVNT ax40 2452MHz Ant2 Ref



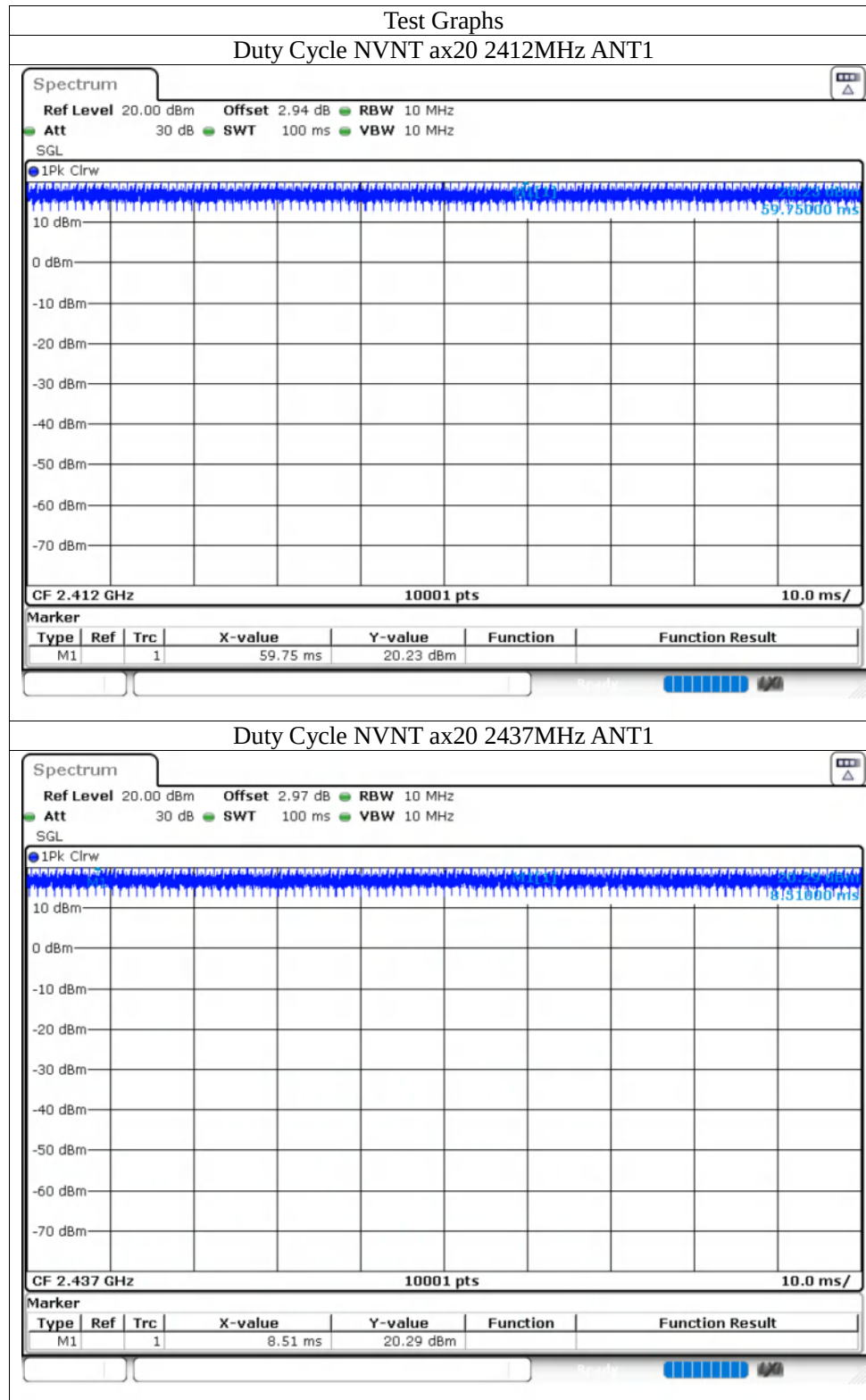
Tx. Spurious NVNT ax40 2452MHz Ant2 Emission



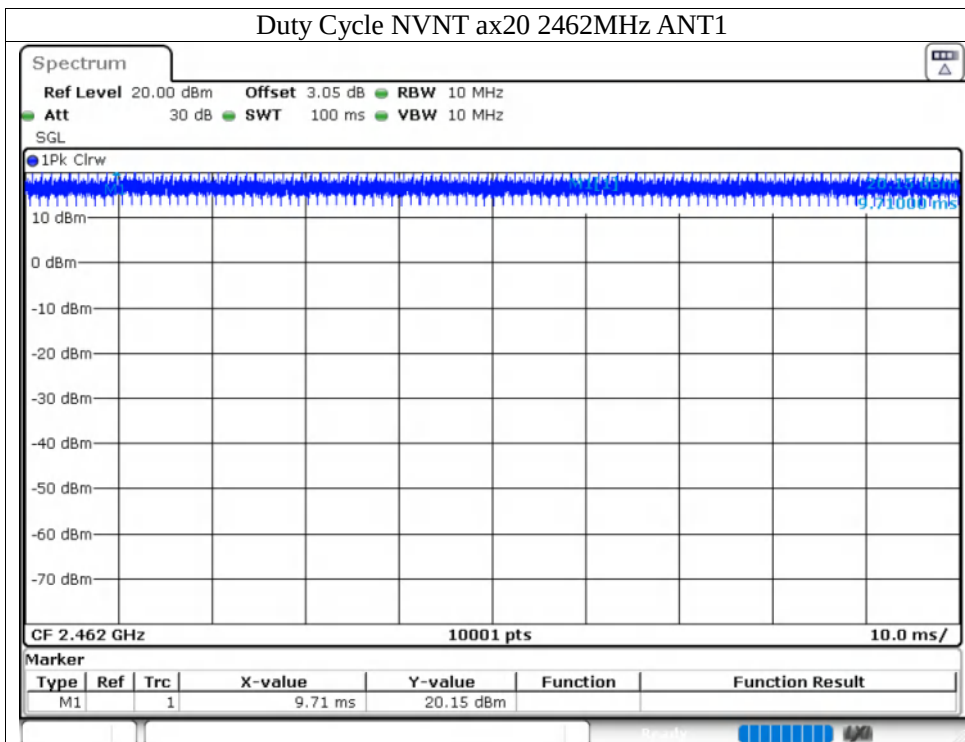
8.2 2.4G WIFI MIMO

8.2.1 Duty Cycle

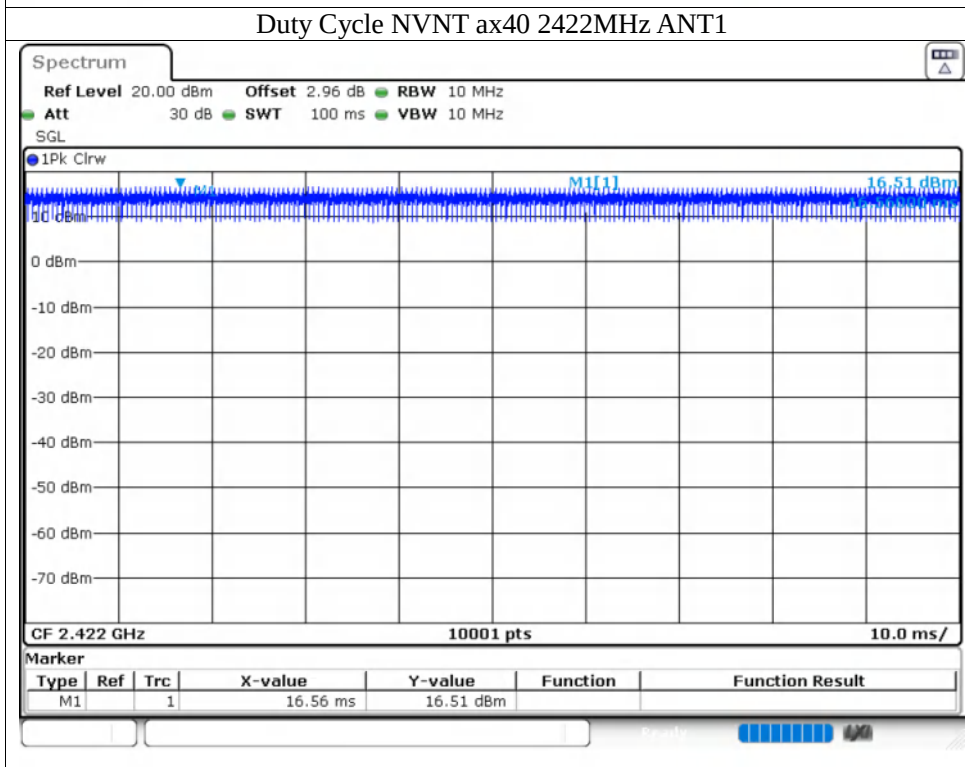
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax20	2412	ANT1	100	0	/
NVNT	ax20	2437	ANT1	100	0	/
NVNT	ax20	2462	ANT1	100	0	/
NVNT	ax40	2422	ANT1	100	0	/
NVNT	ax40	2437	ANT1	100	0	/
NVNT	ax40	2452	ANT1	100	0	/
NVNT	n20	2412	ANT1	100	0	/
NVNT	n20	2437	ANT1	100	0	/
NVNT	n20	2462	ANT1	100	0	/
NVNT	n40	2422	ANT1	100	0	/
NVNT	n40	2437	ANT1	100	0	/
NVNT	n40	2452	ANT1	100	0	/

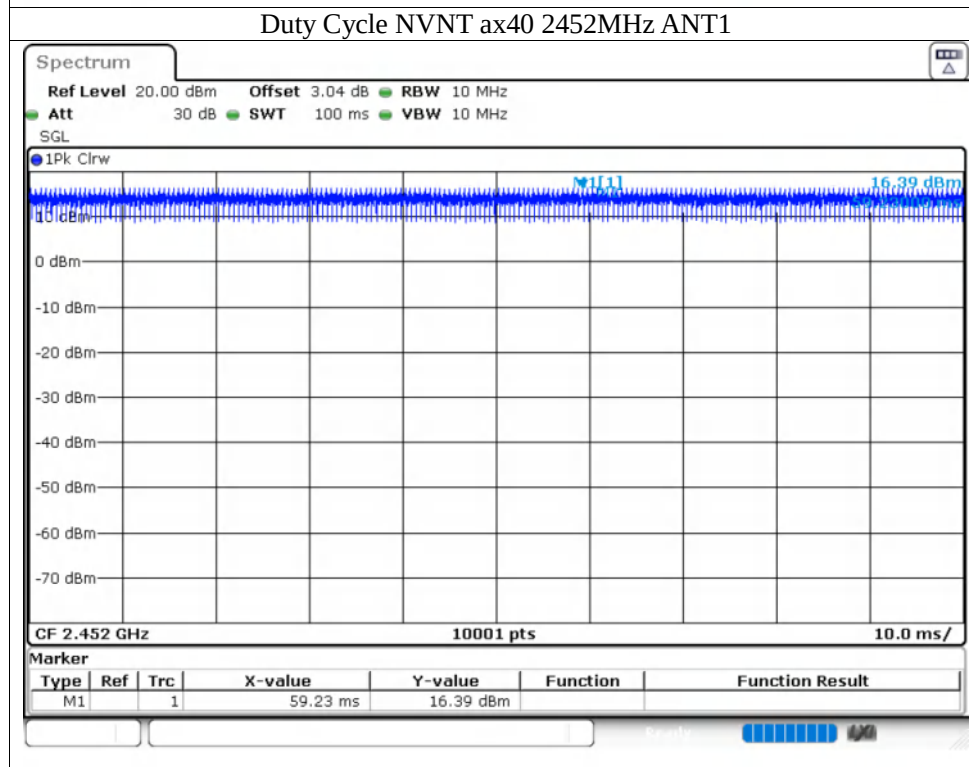
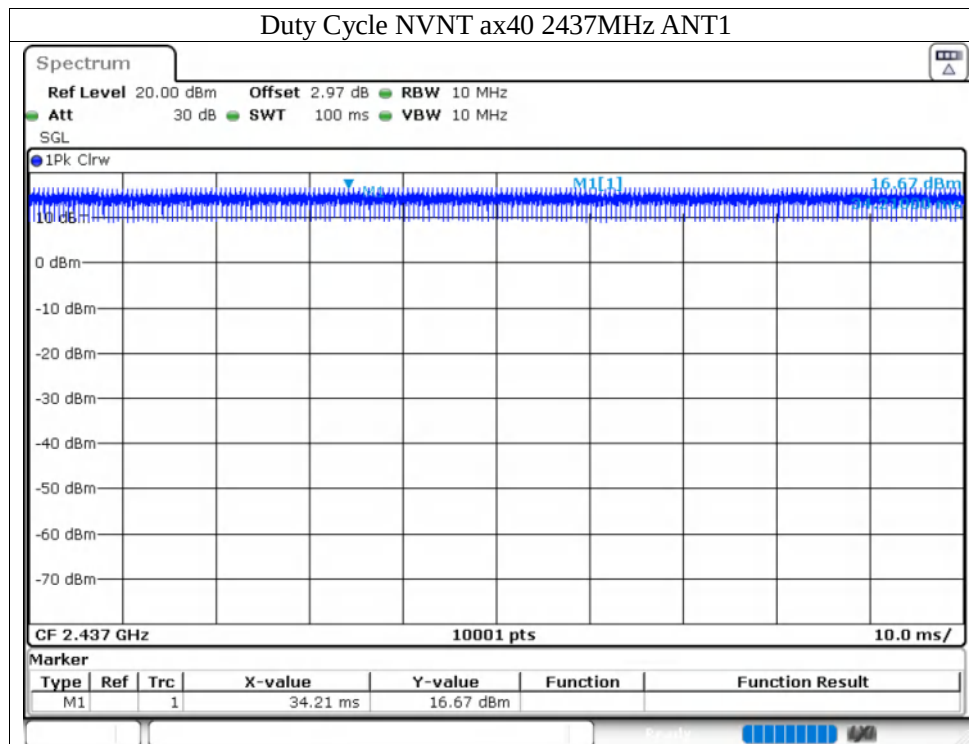


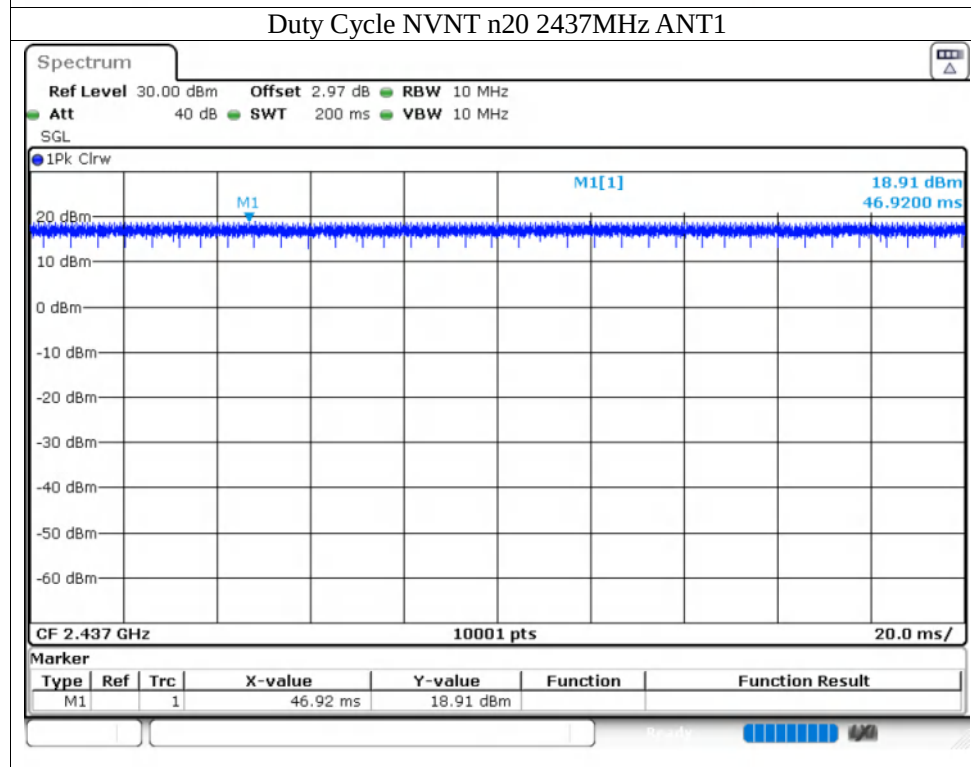
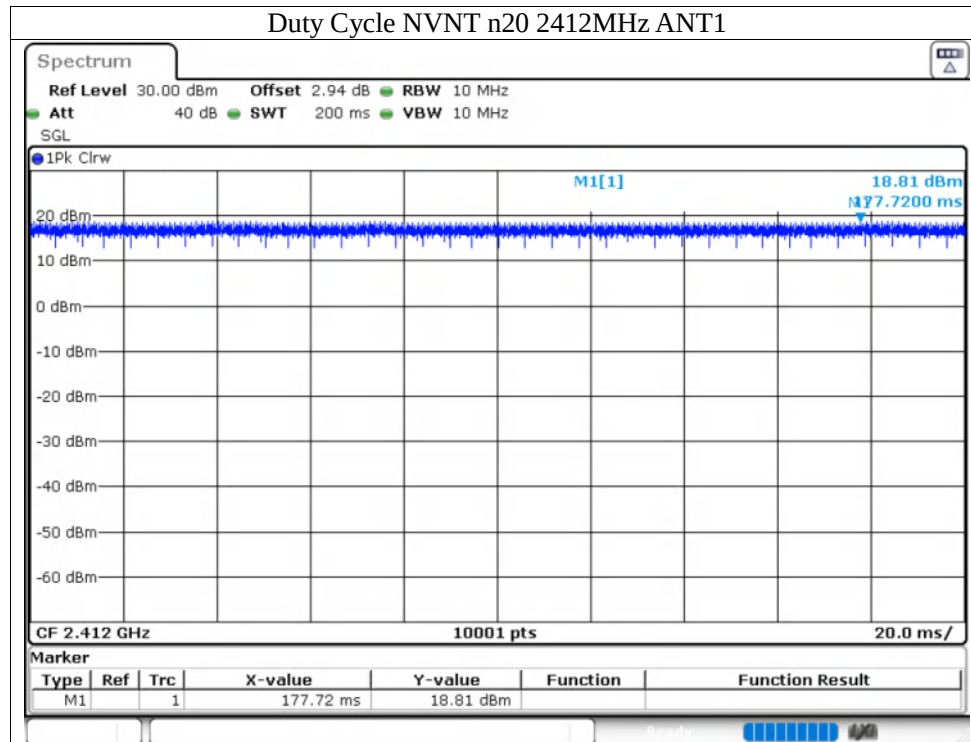
Duty Cycle NVNT ax20 2462MHz ANT1



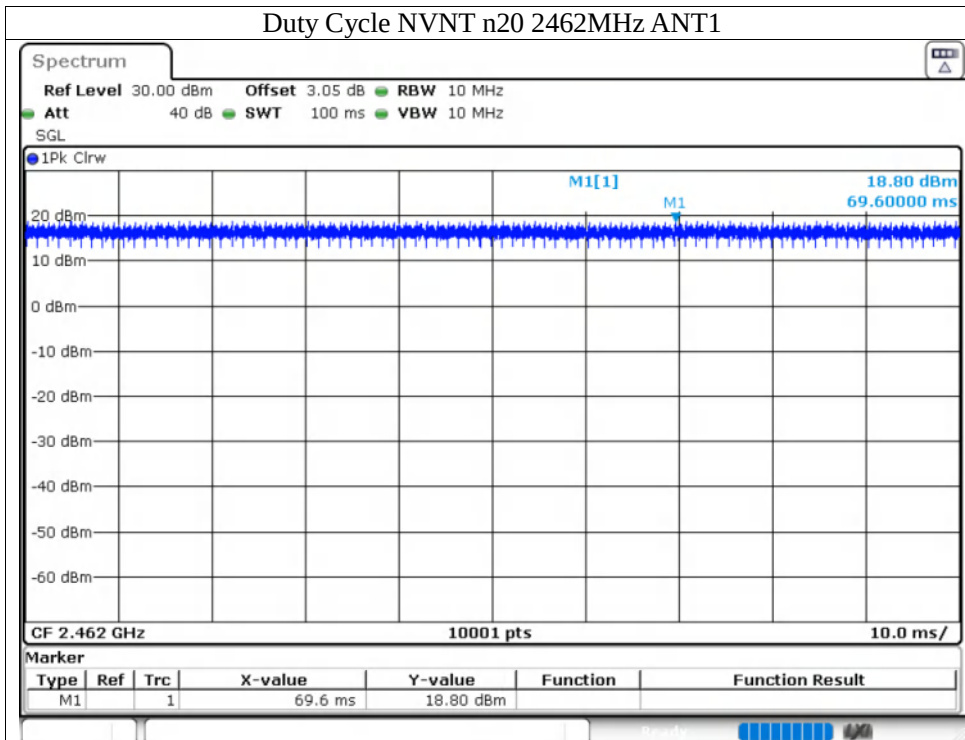
Duty Cycle NVNT ax40 2422MHz ANT1



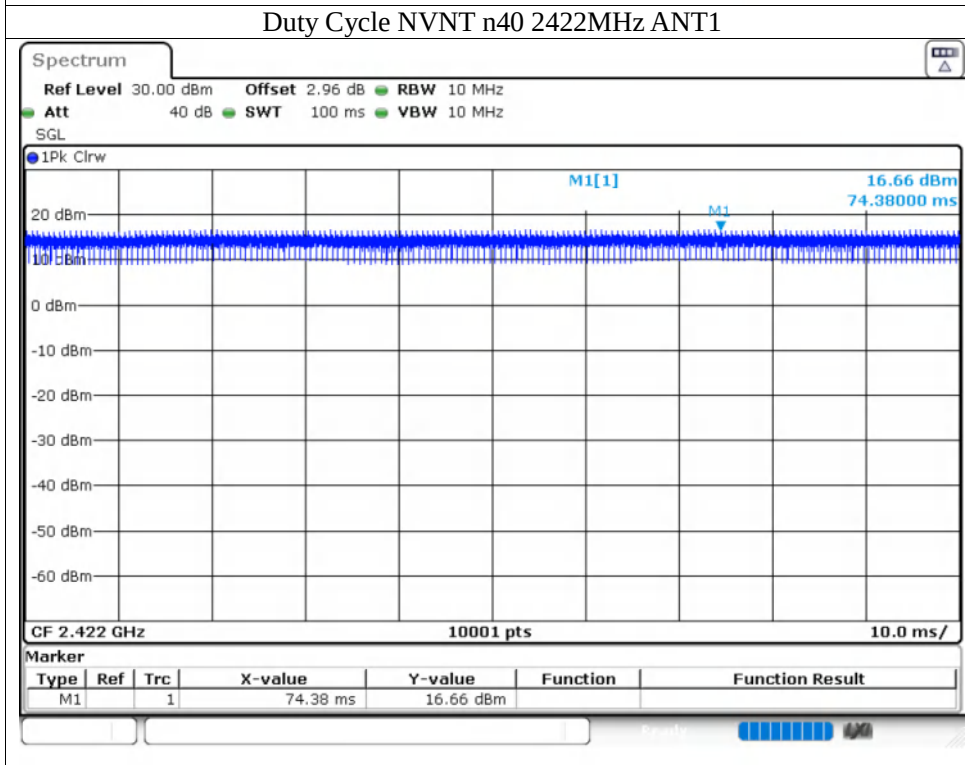




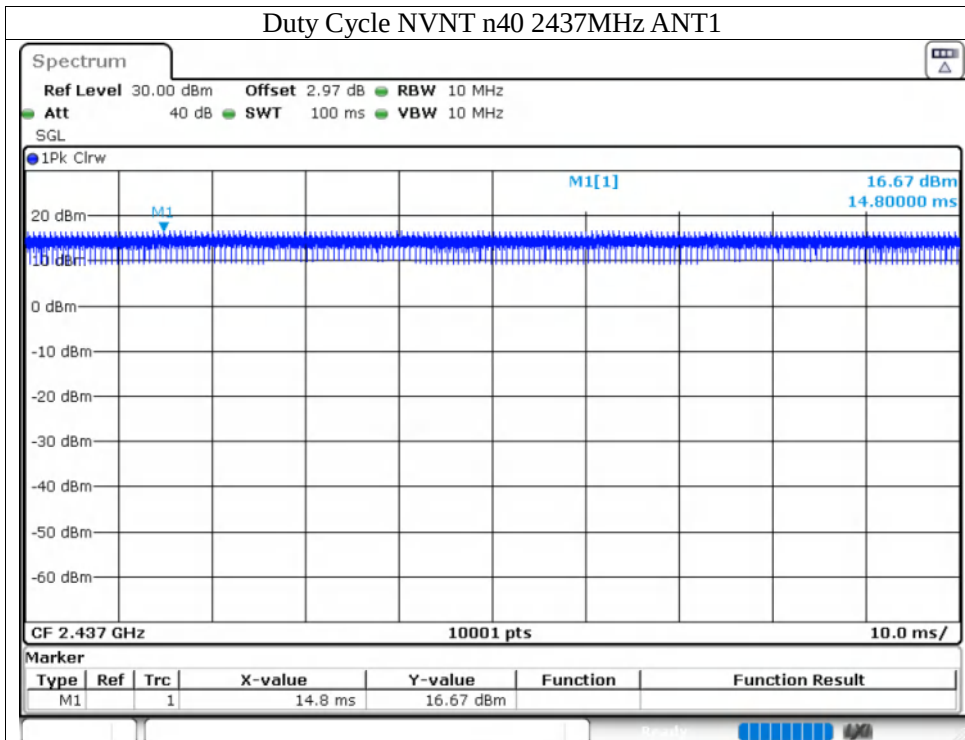
Duty Cycle NVNT n20 2462MHz ANT1



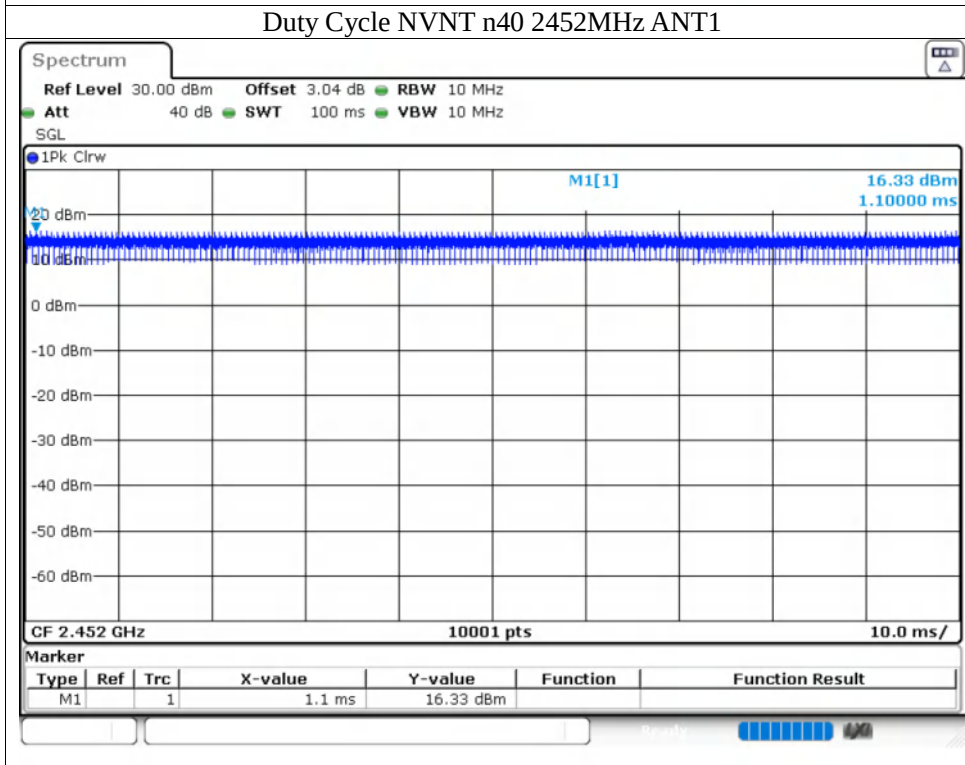
Duty Cycle NVNT n40 2422MHz ANT1



Duty Cycle NVNT n40 2437MHz ANT1



Duty Cycle NVNT n40 2452MHz ANT1



8.2.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	ax20	2412	Ant1	11.34	0	11.34	30	Pass
NVNT	ax20	2412	Ant2	11.96	0	11.96	30	Pass
NVNT	ax20	2412	Sum	14.67	0	14.67	30	Pass
NVNT	ax20	2437	Ant1	11.27	0	11.27	30	Pass
NVNT	ax20	2437	Ant2	11.91	0	11.91	30	Pass
NVNT	ax20	2437	Sum	14.61	0	14.61	30	Pass
NVNT	ax20	2462	Ant1	11.12	0	11.12	30	Pass
NVNT	ax20	2462	Ant2	11.82	0	11.82	30	Pass
NVNT	ax20	2462	Sum	14.49	0	14.49	30	Pass
NVNT	ax40	2422	Ant1	11.41	0	11.41	30	Pass
NVNT	ax40	2422	Ant2	12.33	0	12.33	30	Pass
NVNT	ax40	2422	Sum	14.9	0	14.9	30	Pass
NVNT	ax40	2437	Ant1	11.3	0	11.3	30	Pass
NVNT	ax40	2437	Ant2	12.29	0	12.29	30	Pass
NVNT	ax40	2437	Sum	14.83	0	14.83	30	Pass
NVNT	ax40	2452	Ant1	11.16	0	11.16	30	Pass
NVNT	ax40	2452	Ant2	12.26	0	12.26	30	Pass
NVNT	ax40	2452	Sum	14.76	0	14.76	30	Pass
NVNT	n20	2412	Ant1	11.41	0	11.41	30	Pass
NVNT	n20	2412	Ant2	11.82	0	11.82	30	Pass
NVNT	n20	2412	Sum	14.63	0	14.63	30	Pass
NVNT	n20	2437	Ant1	11.37	0	11.37	30	Pass
NVNT	n20	2437	Ant2	11.83	0	11.83	30	Pass
NVNT	n20	2437	Sum	14.62	0	14.62	30	Pass
NVNT	n20	2462	Ant1	11.23	0	11.23	30	Pass
NVNT	n20	2462	Ant2	11.83	0	11.83	30	Pass
NVNT	n20	2462	Sum	14.55	0	14.55	30	Pass
NVNT	n40	2422	Ant1	11.35	0	11.35	30	Pass
NVNT	n40	2422	Ant2	12.28	0	12.28	30	Pass
NVNT	n40	2422	Sum	14.85	0	14.85	30	Pass
NVNT	n40	2437	Ant1	11.29	0	11.29	30	Pass
NVNT	n40	2437	Ant2	12.23	0	12.23	30	Pass
NVNT	n40	2437	Sum	14.8	0	14.8	30	Pass
NVNT	n40	2452	Ant1	11.25	0	11.25	30	Pass
NVNT	n40	2452	Ant2	12.23	0	12.23	30	Pass
NVNT	n40	2452	Sum	14.78	0	14.78	30	Pass

Note: For 802.11n20/n40/ax20/ax40, this device employ CDD for MIMO mode, according to KDB 662911 D01 Multiple Transmitter Output v02r01,
 Directional gain = GANT + 10 log(N)
 Directional gain=0.72+3=3.72dBi < 6dBi, So the limit does not need to be reduced.

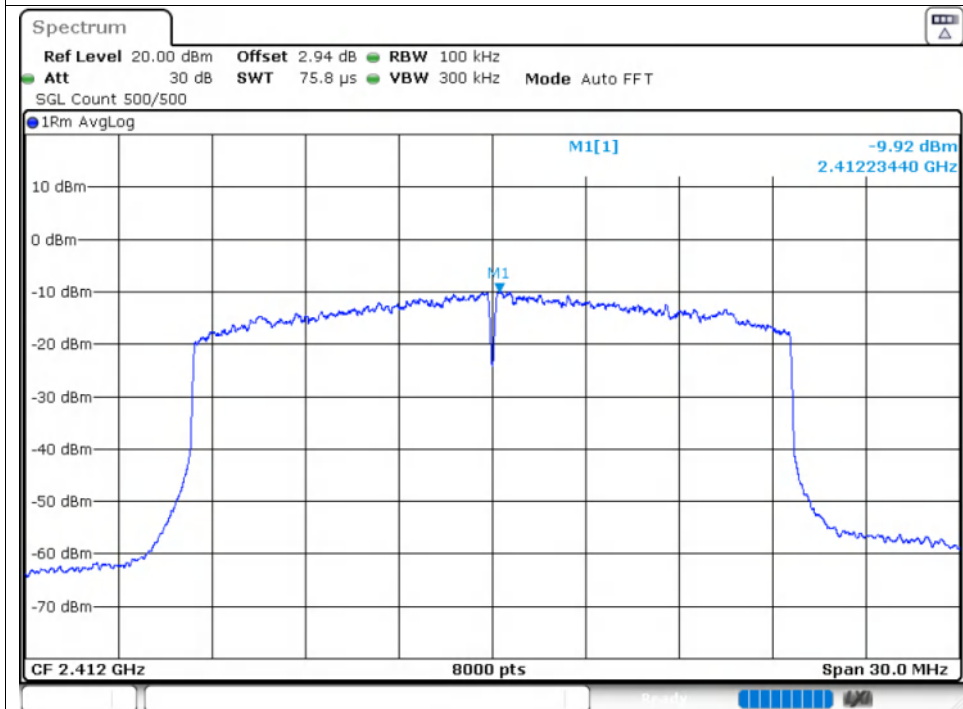
8.2.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	ax20	2412	Ant1	-9.92	0	-9.92	8	Pass
NVNT	ax20	2412	Ant2	-10.61	0	-10.61	8	Pass
NVNT	ax20	2412	Sum	-7.24	0	-7.24	8	Pass
NVNT	ax20	2437	Ant1	-9.79	0	-9.79	8	Pass
NVNT	ax20	2437	Ant2	-10.71	0	-10.71	8	Pass
NVNT	ax20	2437	Sum	-7.22	0	-7.22	8	Pass
NVNT	ax20	2462	Ant1	-10.06	0	-10.06	8	Pass
NVNT	ax20	2462	Ant2	-10.3	0	-10.3	8	Pass
NVNT	ax20	2462	Sum	-7.17	0	-7.17	8	Pass
NVNT	ax40	2422	Ant1	-13.44	0	-13.44	8	Pass
NVNT	ax40	2422	Ant2	-13.14	0	-13.14	8	Pass
NVNT	ax40	2422	Sum	-10.28	0	-10.28	8	Pass
NVNT	ax40	2437	Ant1	-12.89	0	-12.89	8	Pass
NVNT	ax40	2437	Ant2	-13.2	0	-13.2	8	Pass
NVNT	ax40	2437	Sum	-10.03	0	-10.03	8	Pass
NVNT	ax40	2452	Ant1	-13.27	0	-13.27	8	Pass
NVNT	ax40	2452	Ant2	-13.56	0	-13.56	8	Pass
NVNT	ax40	2452	Sum	-10.4	0	-10.4	8	Pass
NVNT	n20	2412	Ant1	-8.39	0	-8.39	8	Pass
NVNT	n20	2412	Ant2	-8.97	0	-8.97	8	Pass
NVNT	n20	2412	Sum	-5.66	0	-5.66	8	Pass
NVNT	n20	2437	Ant1	-8.13	0	-8.13	8	Pass
NVNT	n20	2437	Ant2	-8.9	0	-8.9	8	Pass
NVNT	n20	2437	Sum	-5.49	0	-5.49	8	Pass
NVNT	n20	2462	Ant1	-8.38	0	-8.38	8	Pass
NVNT	n20	2462	Ant2	-8.82	0	-8.82	8	Pass
NVNT	n20	2462	Sum	-5.58	0	-5.58	8	Pass
NVNT	n40	2422	Ant1	-12.08	0	-12.08	8	Pass
NVNT	n40	2422	Ant2	-12.34	0	-12.34	8	Pass
NVNT	n40	2422	Sum	-9.2	0	-9.2	8	Pass
NVNT	n40	2437	Ant1	-11.76	0	-11.76	8	Pass
NVNT	n40	2437	Ant2	-12.51	0	-12.51	8	Pass
NVNT	n40	2437	Sum	-9.11	0	-9.11	8	Pass
NVNT	n40	2452	Ant1	-12	0	-12	8	Pass
NVNT	n40	2452	Ant2	-12.3	0	-12.3	8	Pass
NVNT	n40	2452	Sum	-9.14	0	-9.14	8	Pass

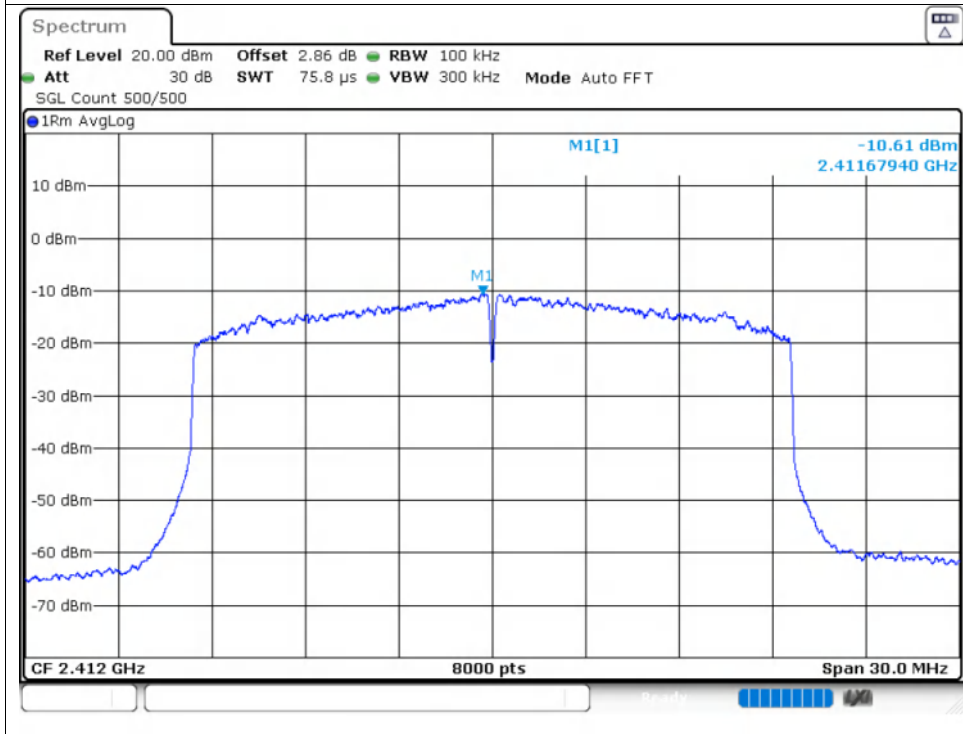
Note: For 802.11n20/n40/ax20/ax40, this device employ CDD for MIMO mode, according to KDB 662911 D01 Multiple Transmitter Output v02r01,
 Directional gain = $G_{ANT} + 10 \log(N)$
 Directional gain = $0.72 + 3 = 3.72 \text{ dBi} < 6 \text{ dBi}$, So the limit does not need to be reduced.

Test Graphs

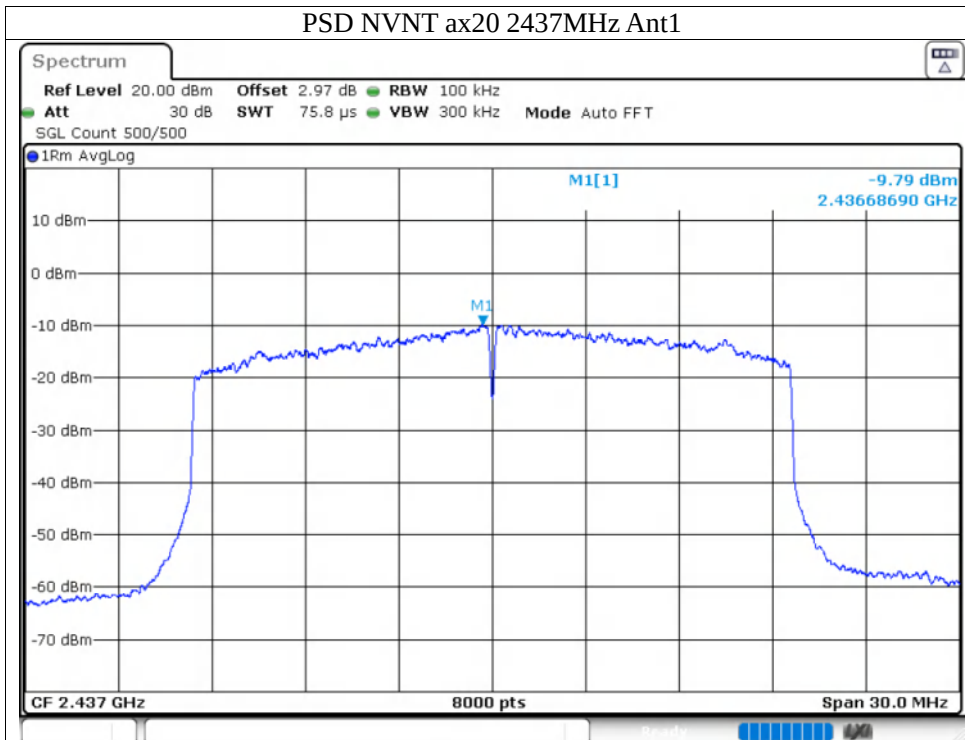
PSD NVNT ax20 2412MHz Ant1



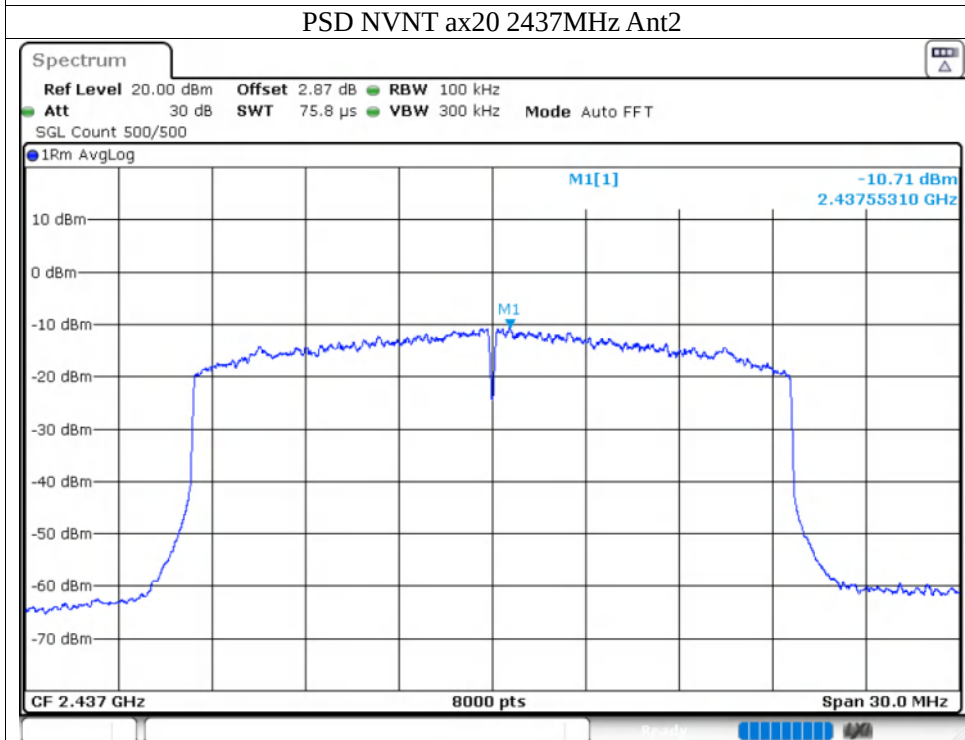
PSD NVNT ax20 2412MHz Ant2



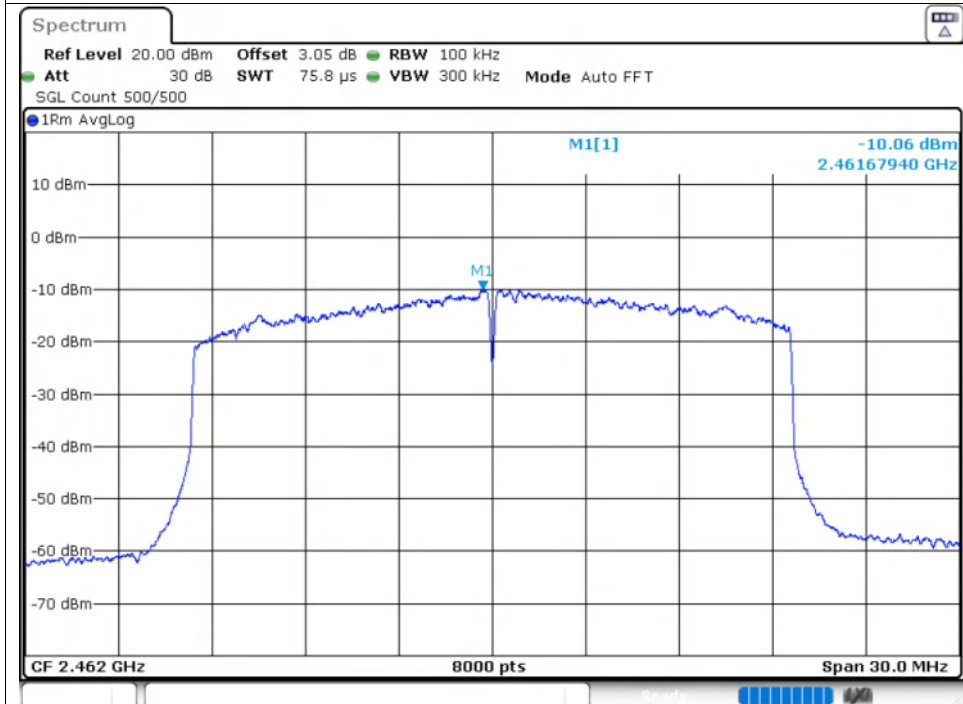
PSD NVNT ax20 2437MHz Ant1



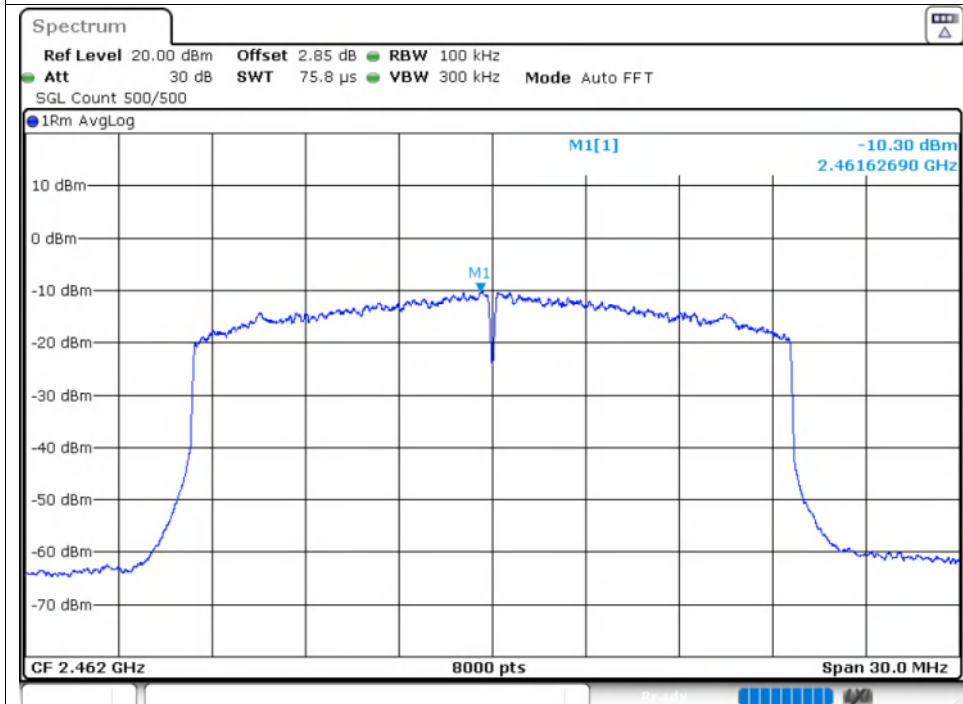
PSD NVNT ax20 2437MHz Ant2



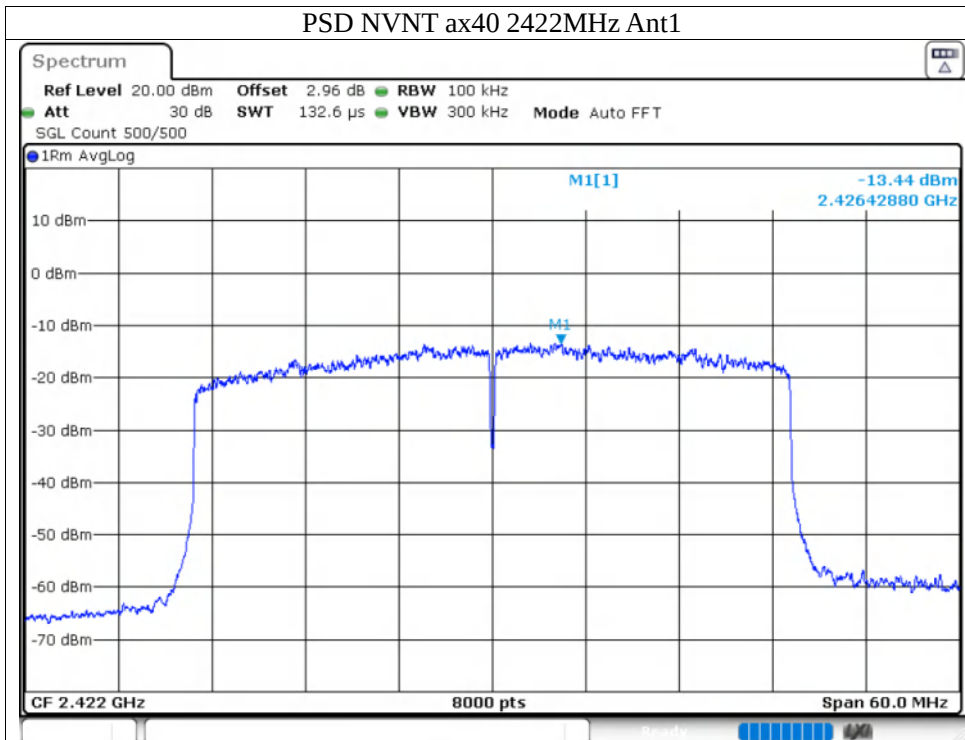
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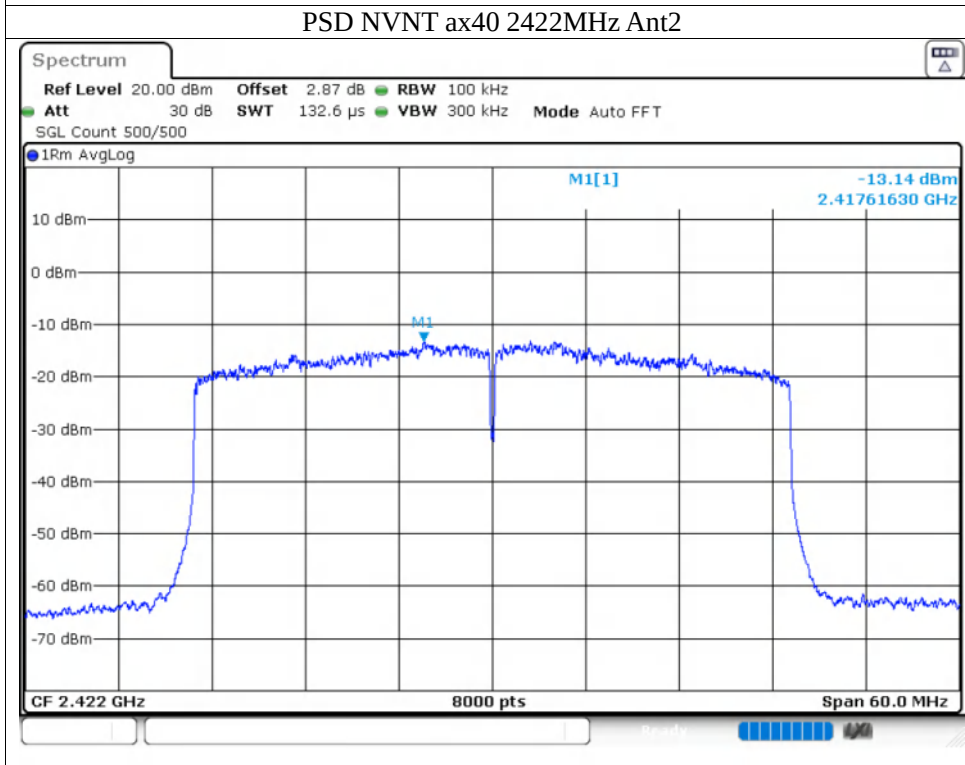
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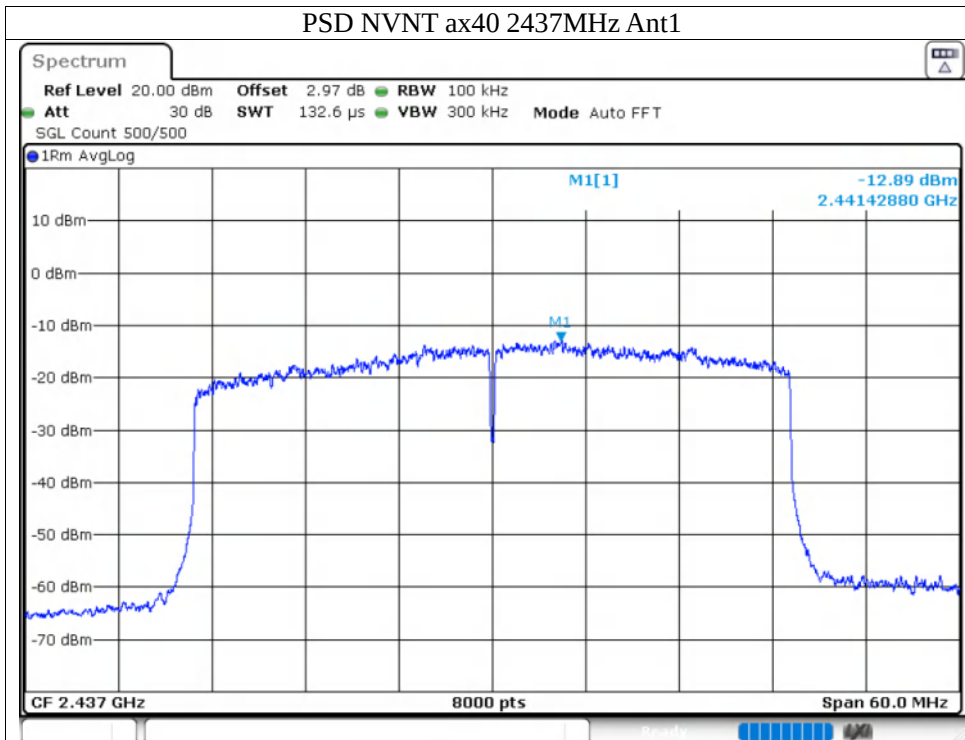
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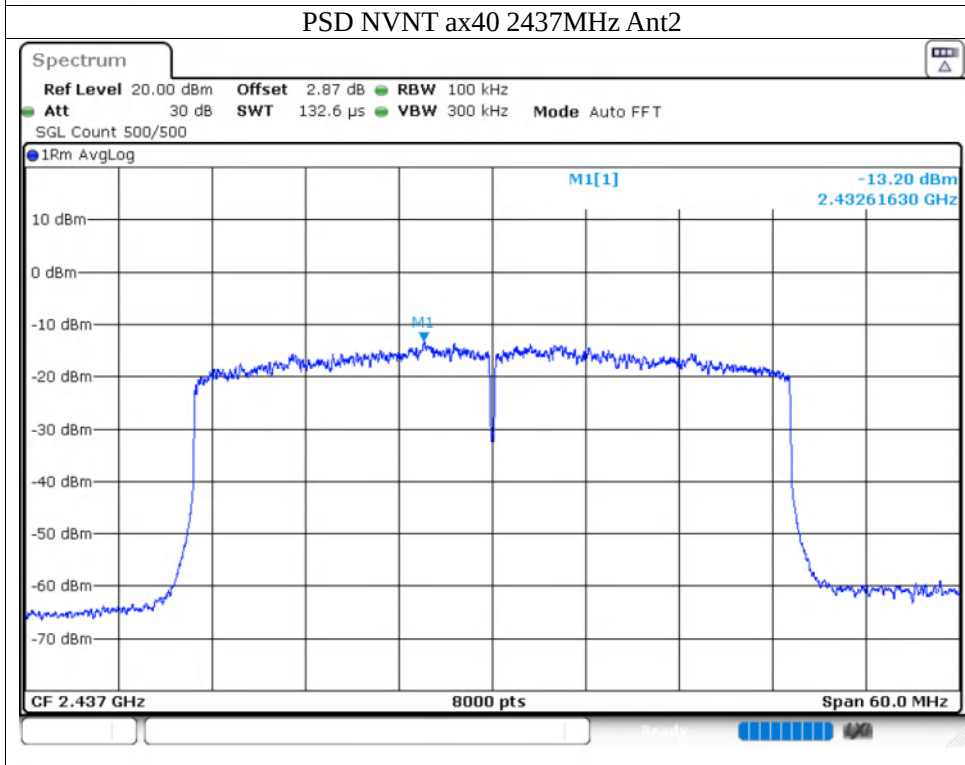
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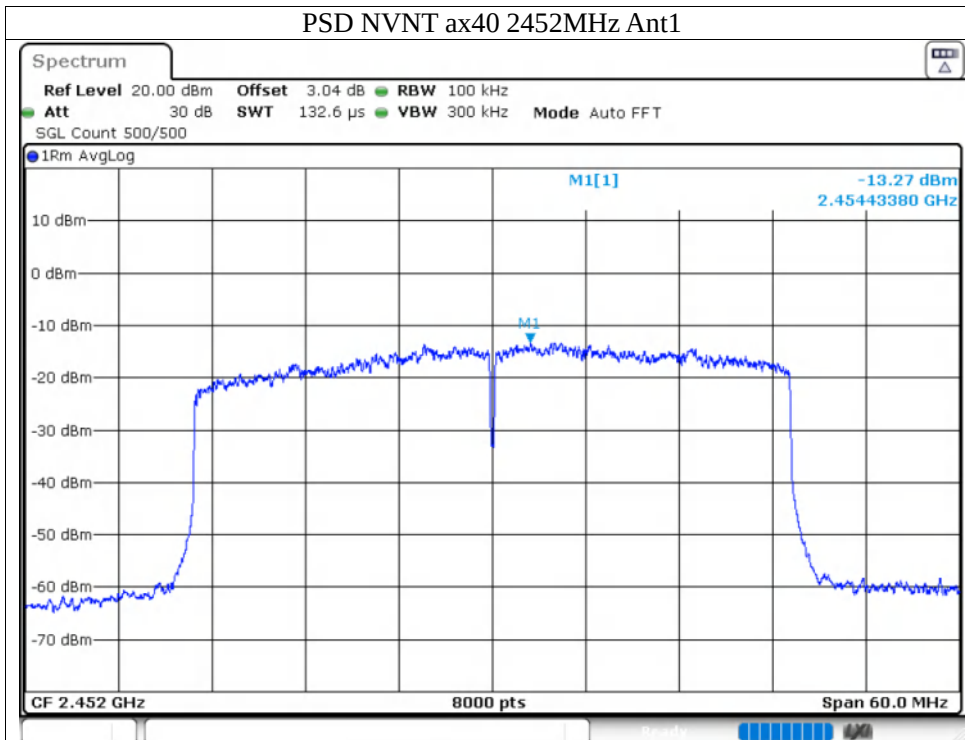
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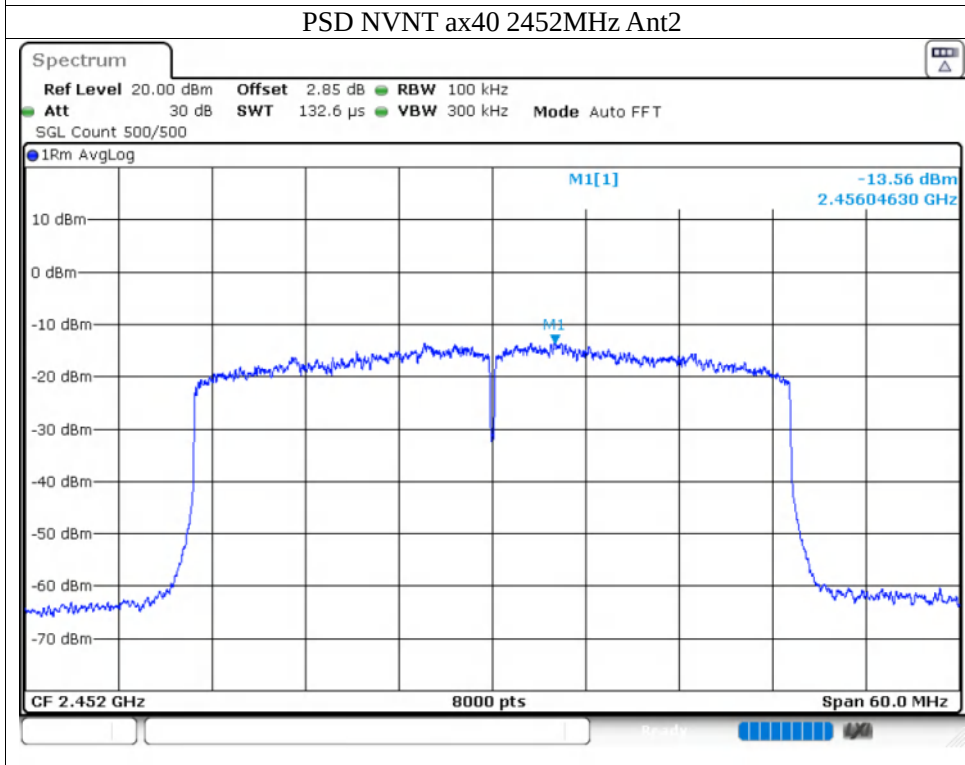
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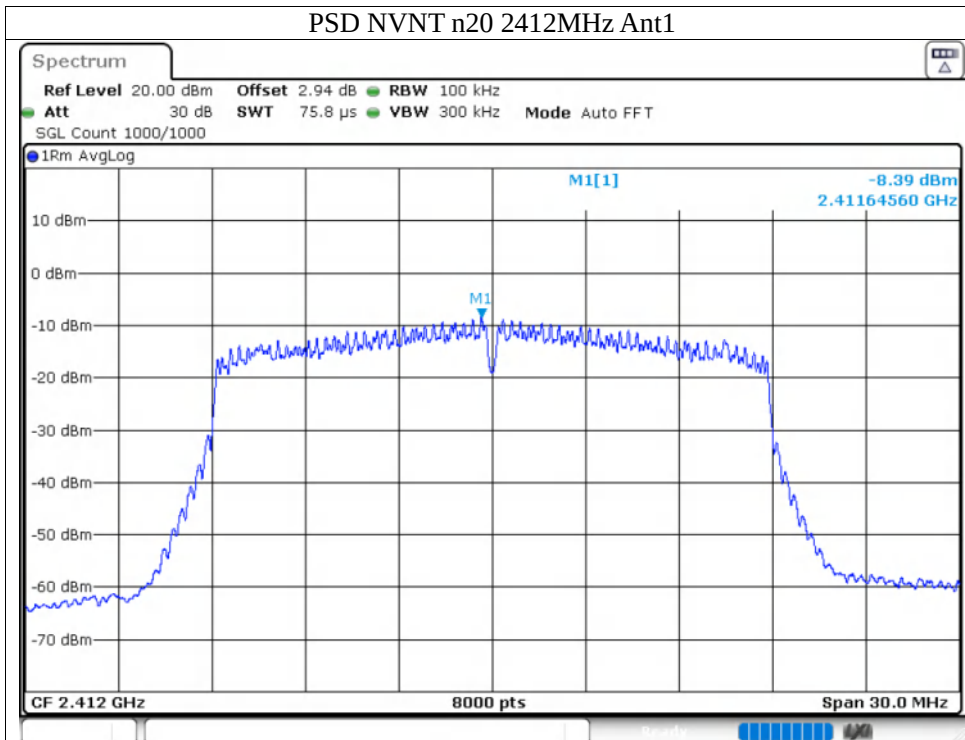
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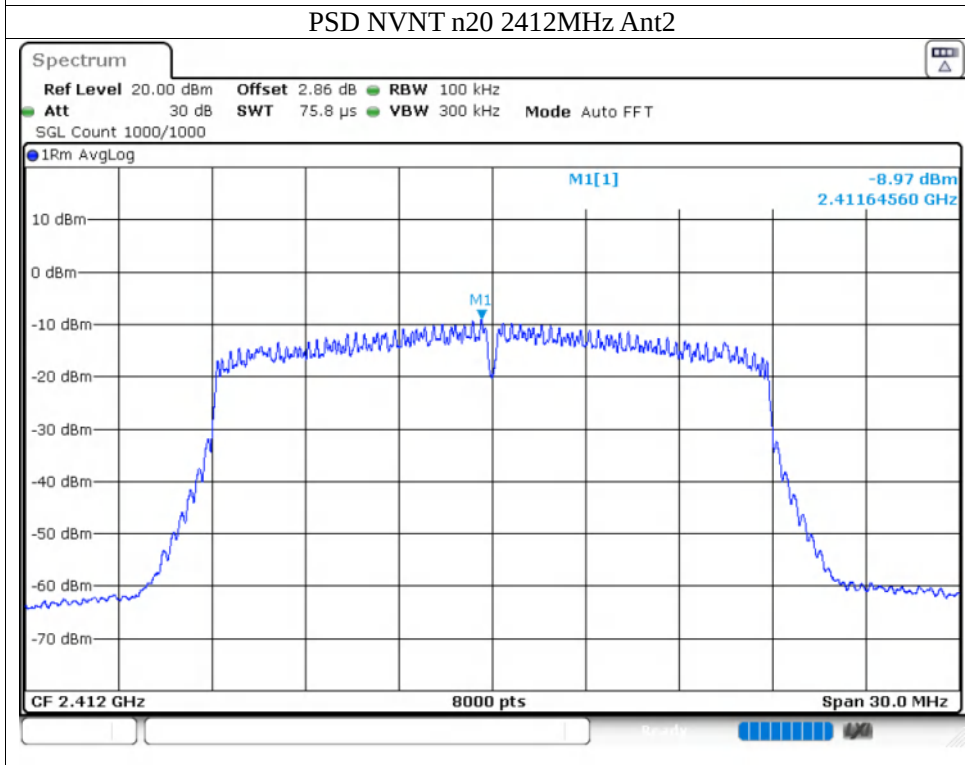
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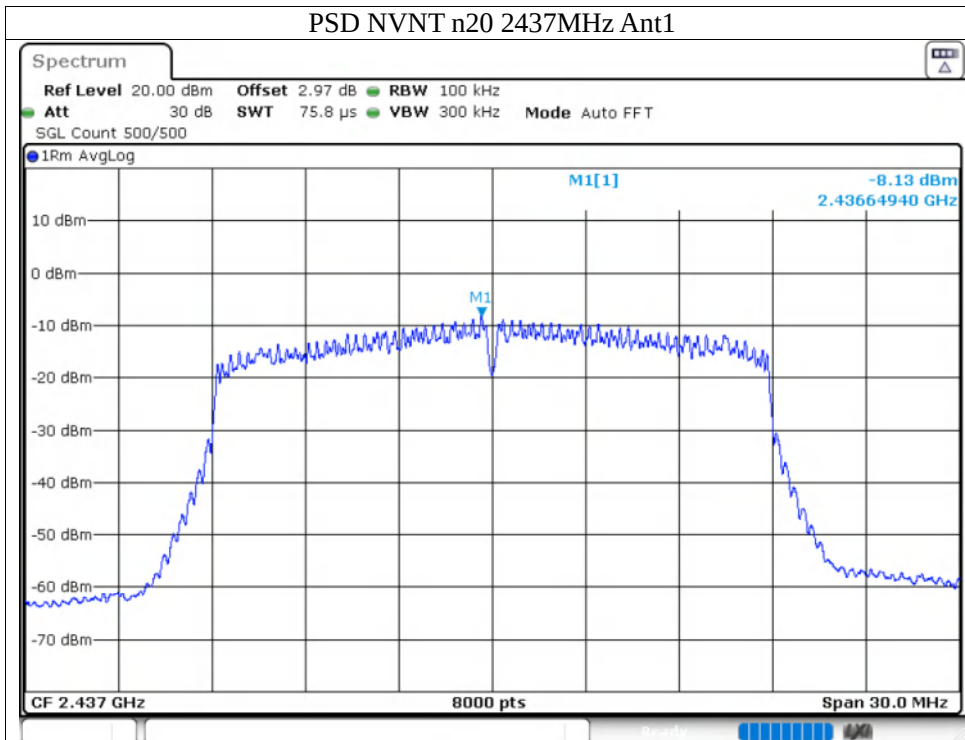
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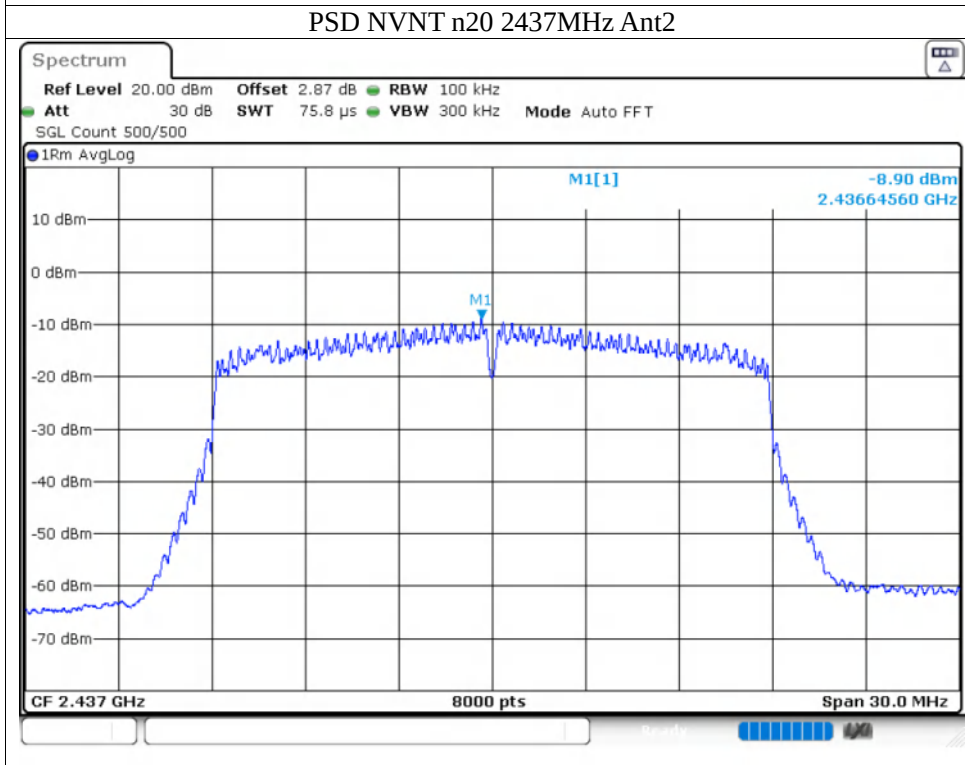
PSD NVNT n20 2412MHz Ant2



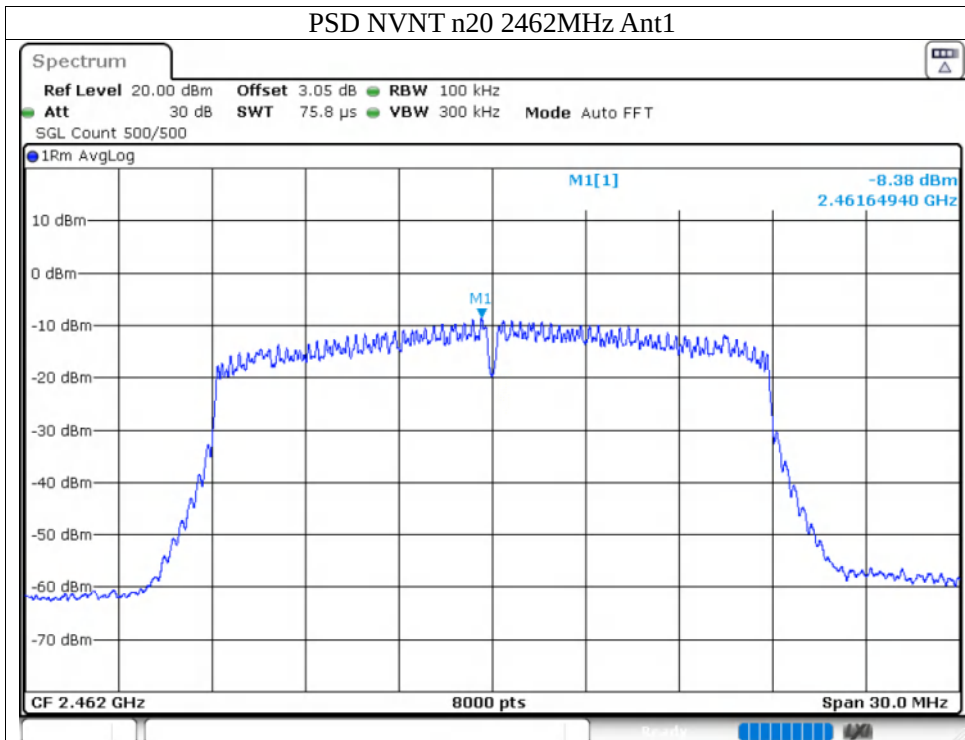
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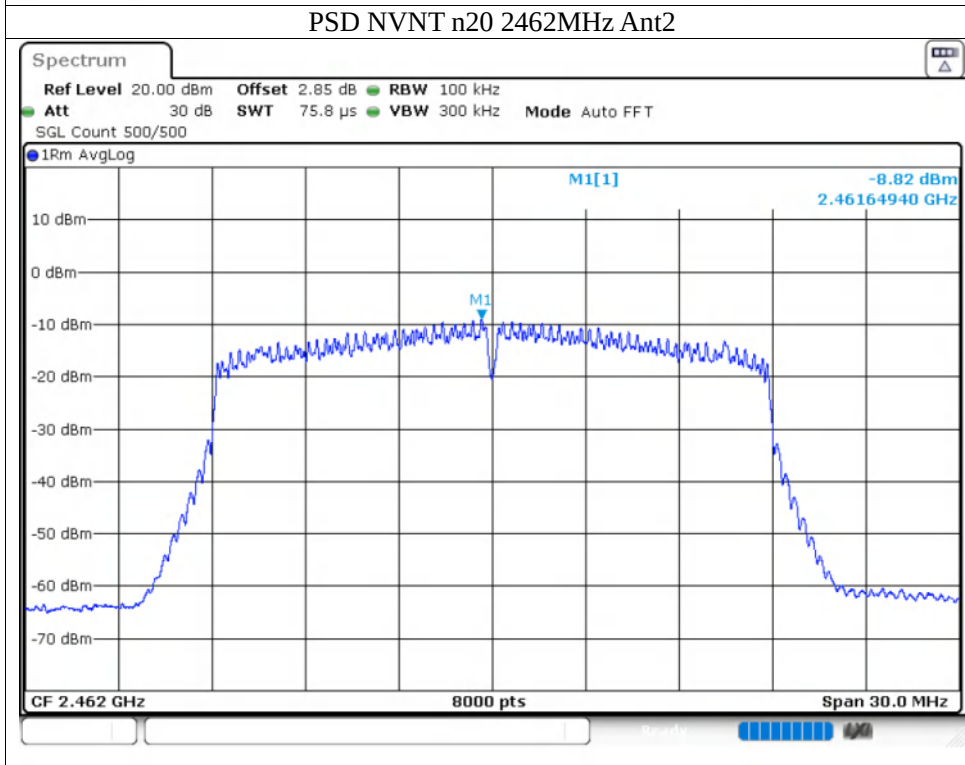
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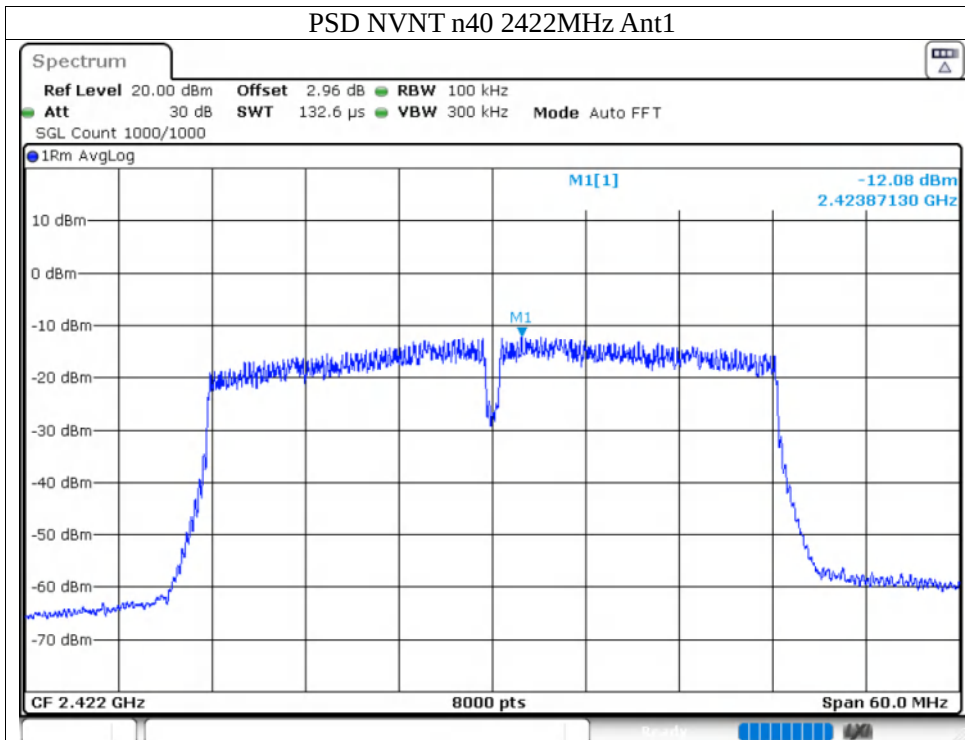
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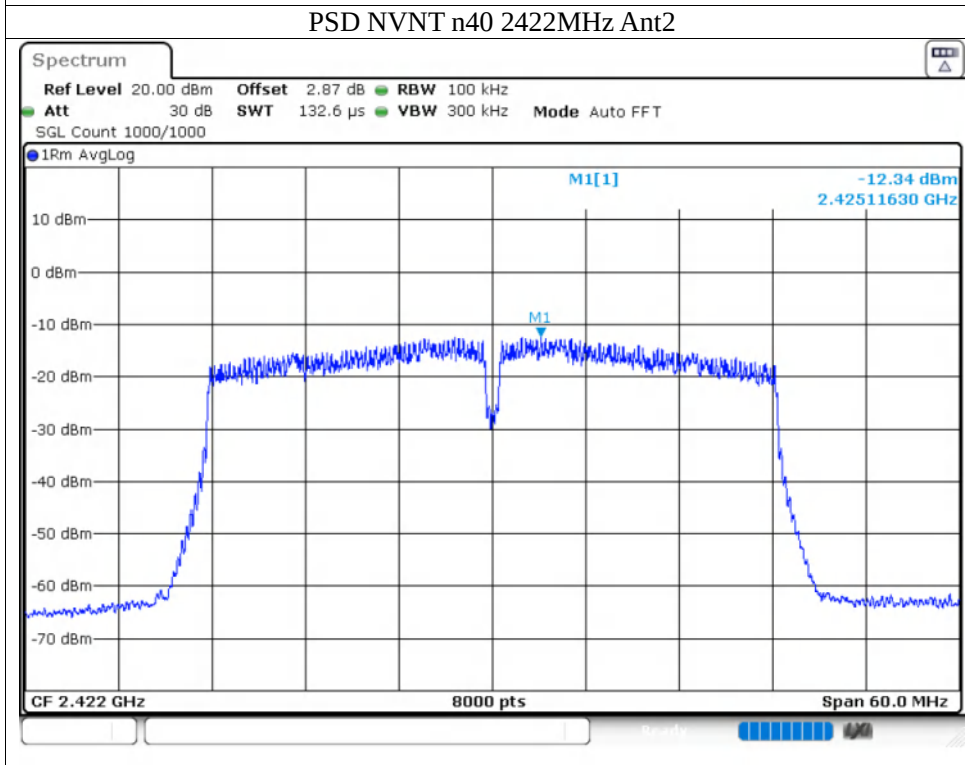
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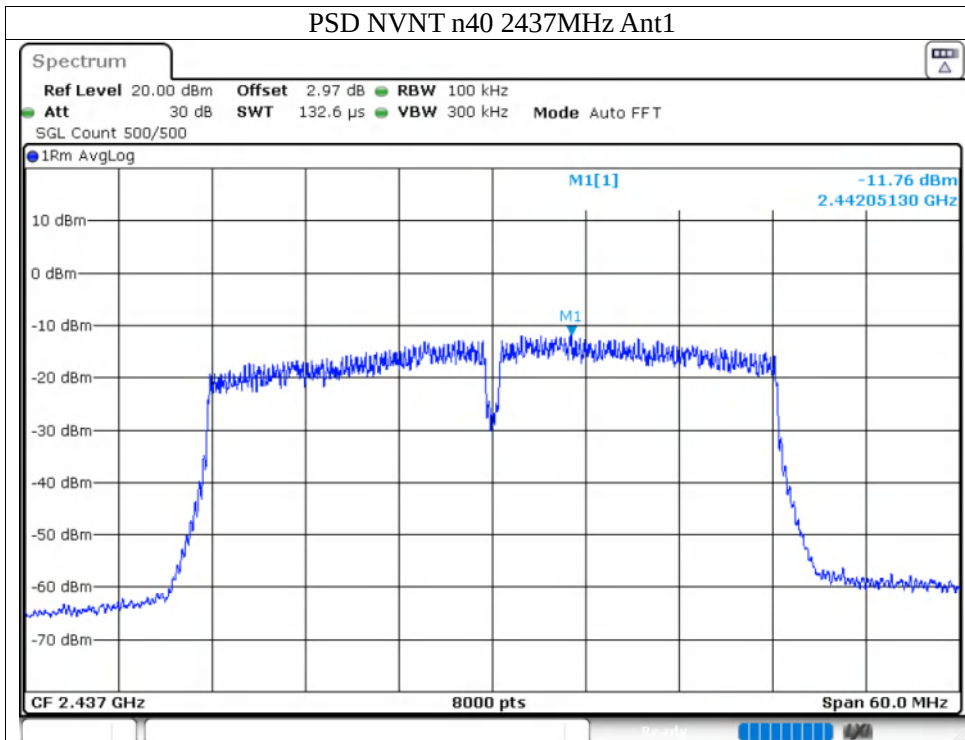
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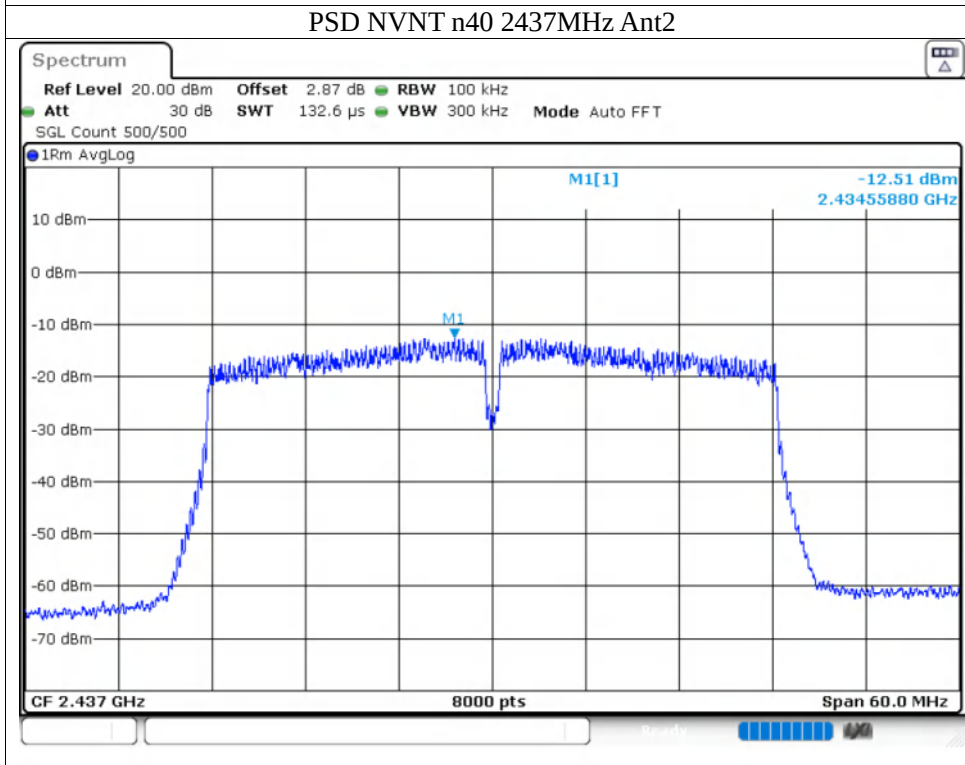
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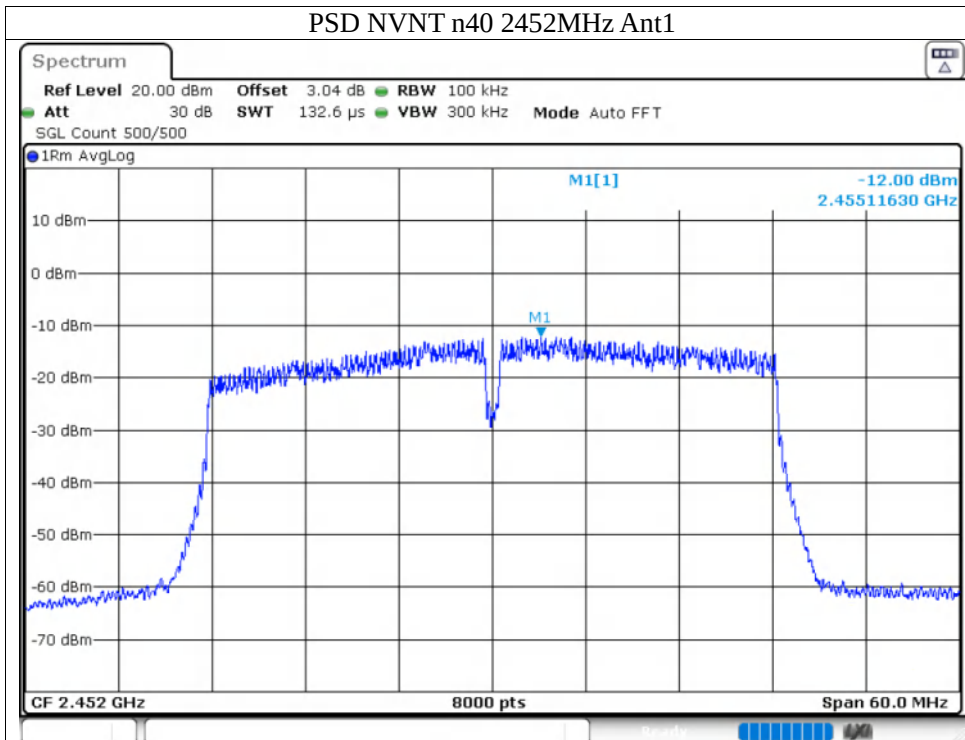
PSD NVNT n40 2437MHz Ant1



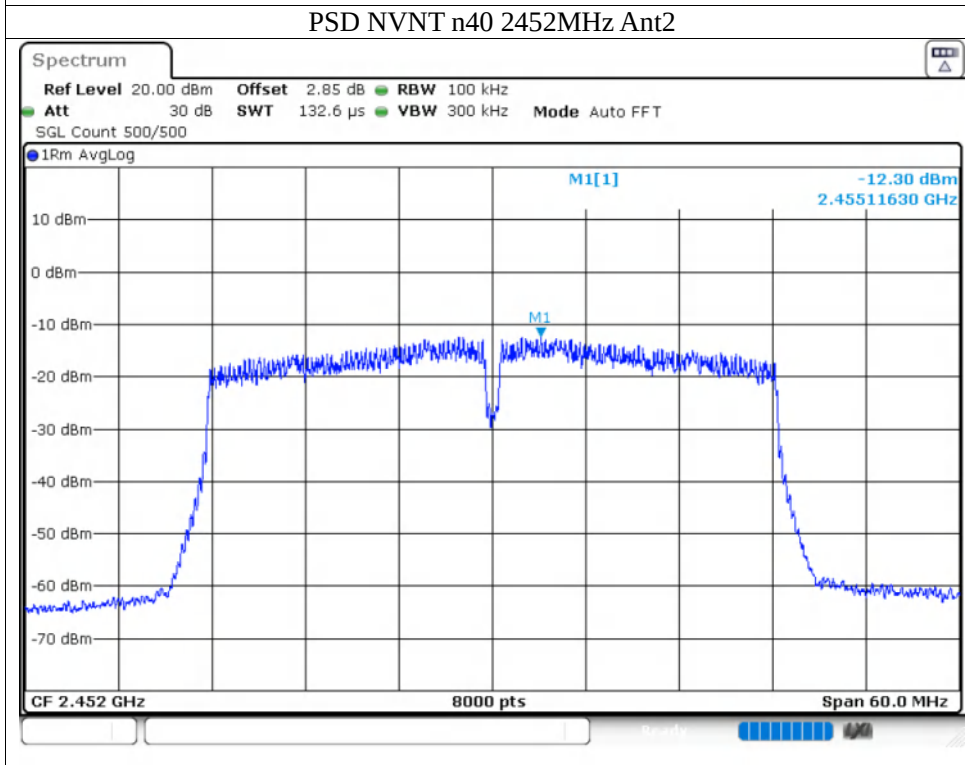
PSD NVNT n40 2437MHz Ant2



PSD NVNT n40 2452MHz Ant1



PSD NVNT n40 2452MHz Ant2



END OF REPORT