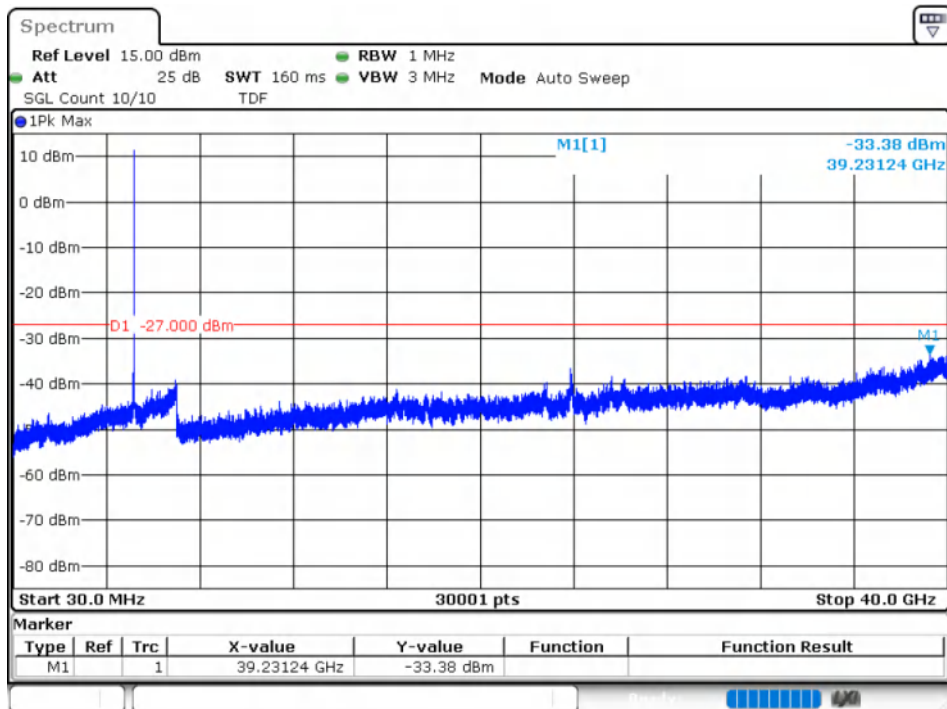
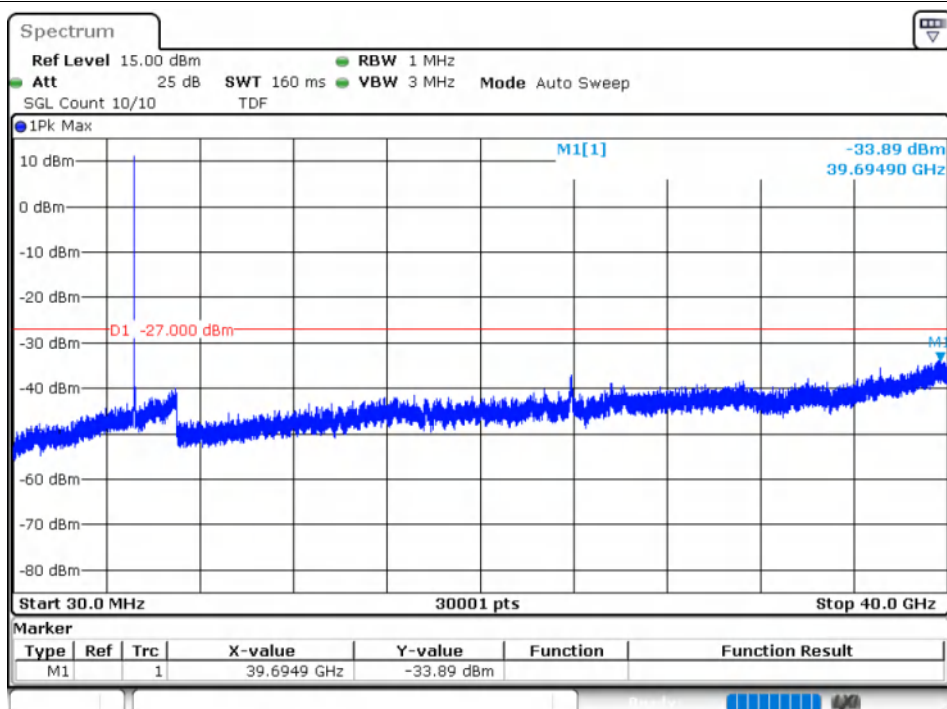


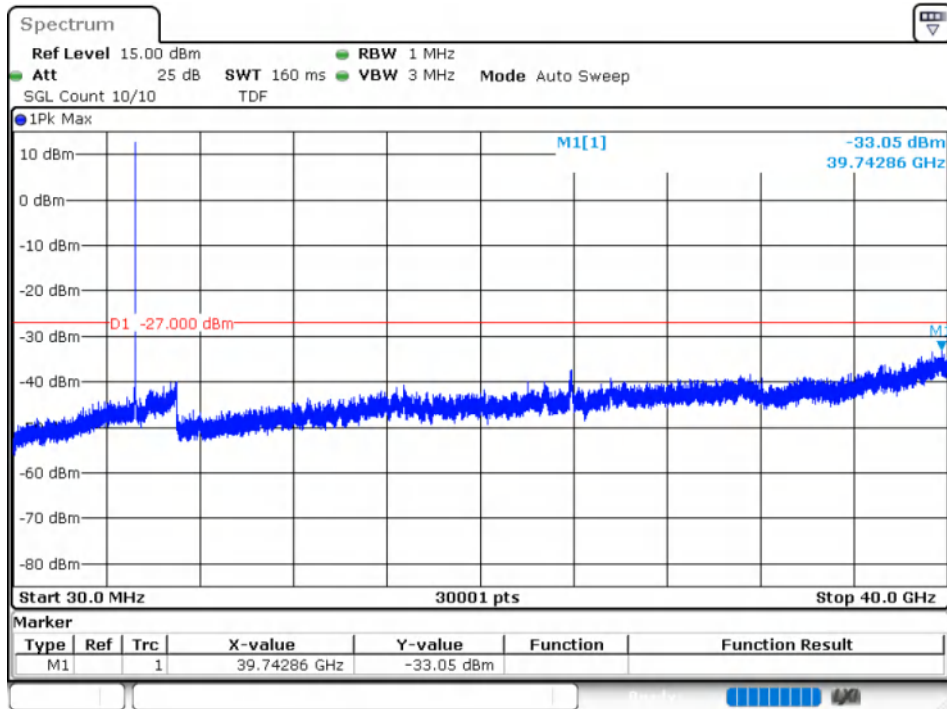
Tx. Spurious NVNT ax20 5180MHz Ant1 Emission



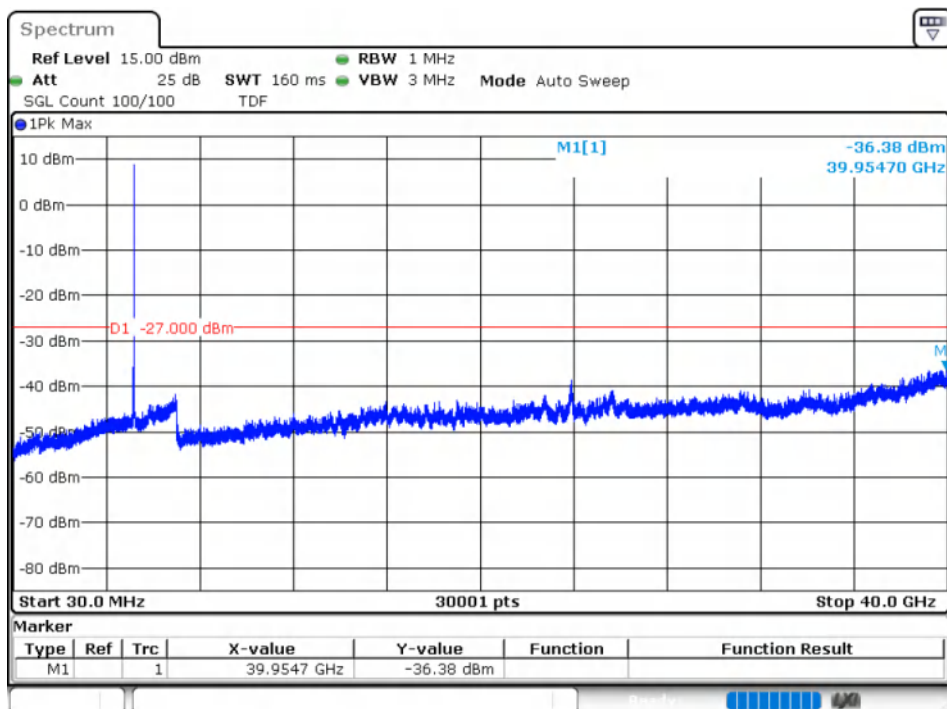
Tx. Spurious NVNT ax20 5200MHz Ant1 Emission



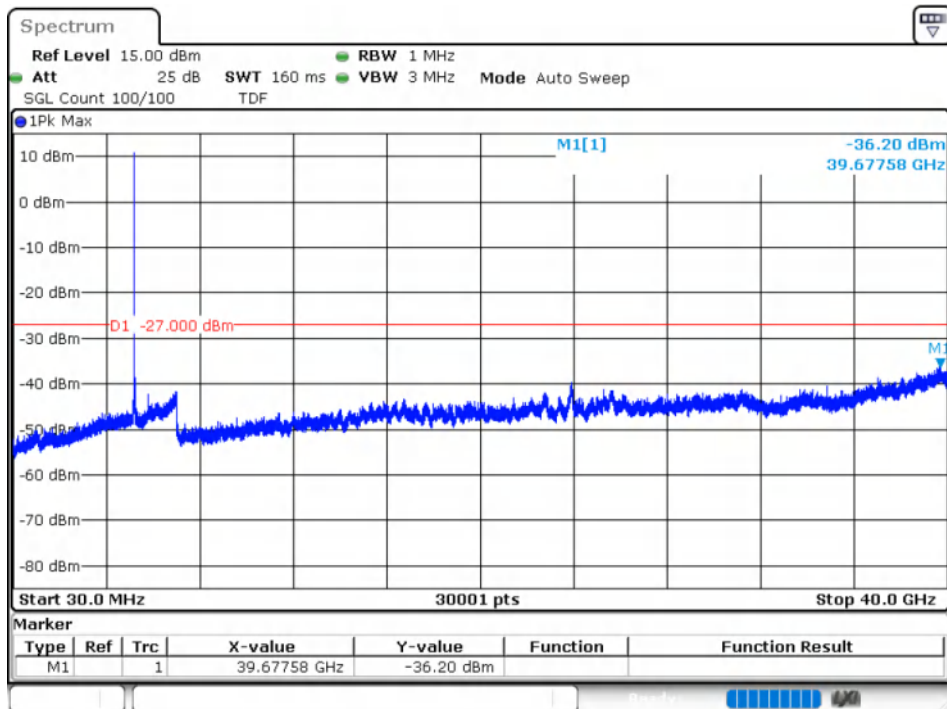
Tx. Spurious NVNT ax20 5240MHz Ant1 Emission



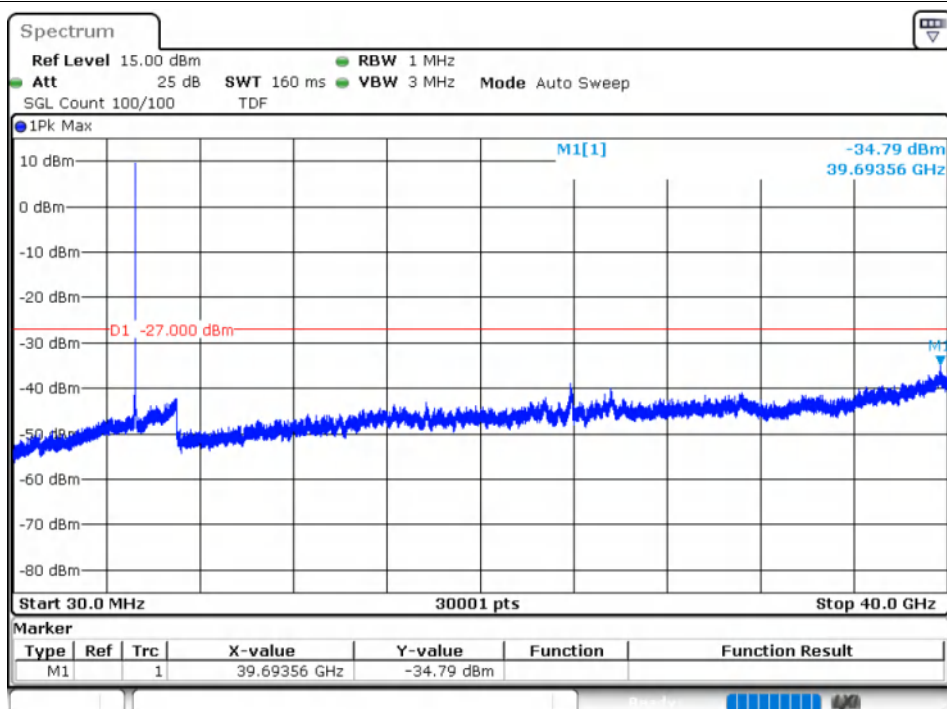
Tx. Spurious NVNT ax20 5180MHz Ant2 Emission



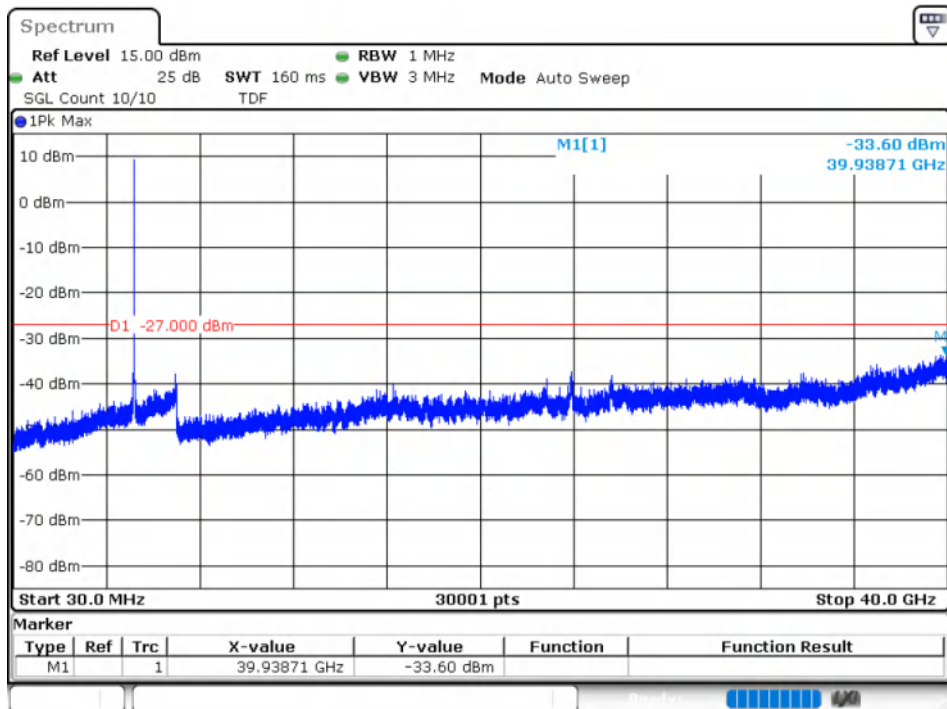
Tx. Spurious NVNT ax20 5200MHz Ant2 Emission



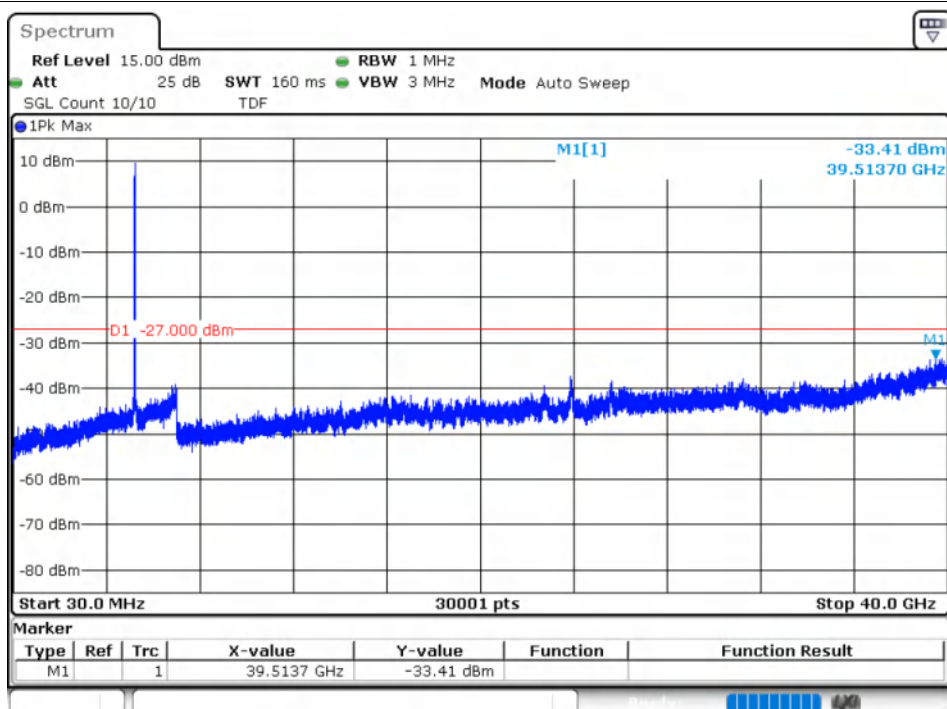
Tx. Spurious NVNT ax20 5240MHz Ant2 Emission



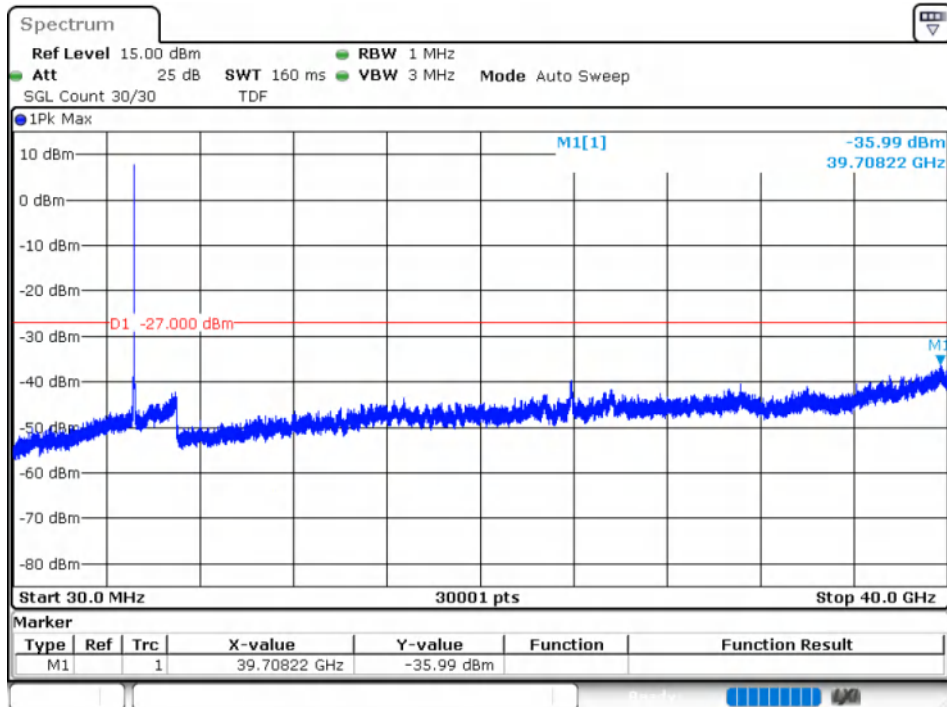
Tx. Spurious NVNT ax40 5190MHz Ant1 Emission



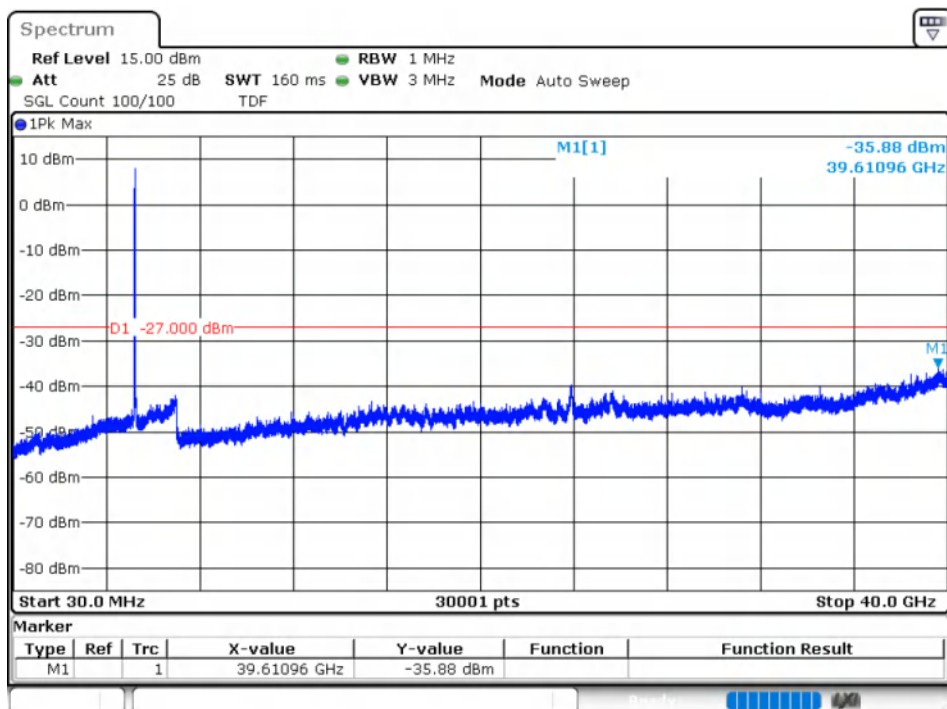
Tx. Spurious NVNT ax40 5230MHz Ant1 Emission



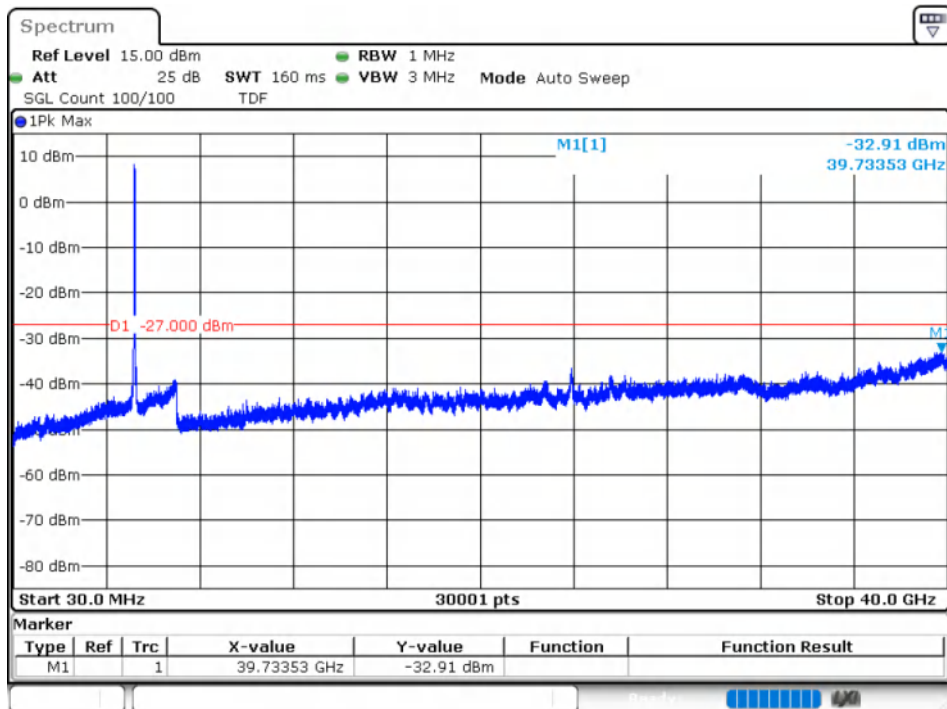
Tx. Spurious NVNT ax40 5190MHz Ant2 Emission



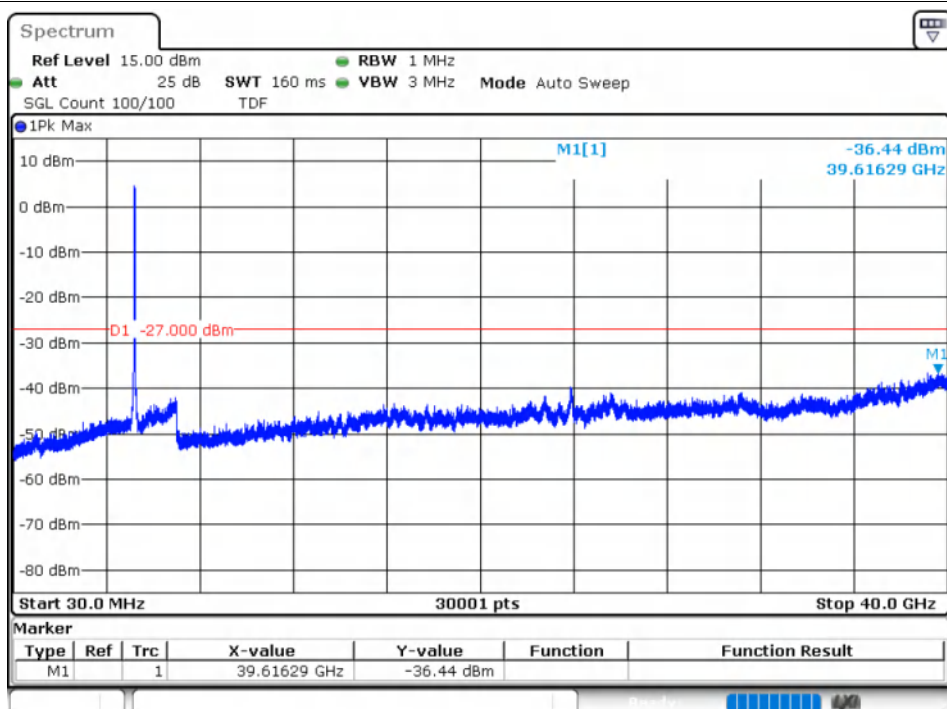
Tx. Spurious NVNT ax40 5230MHz Ant2 Emission



Tx. Spurious NVNT ax80 5210MHz Ant1 Emission



Tx. Spurious NVNT ax80 5210MHz Ant2 Emission



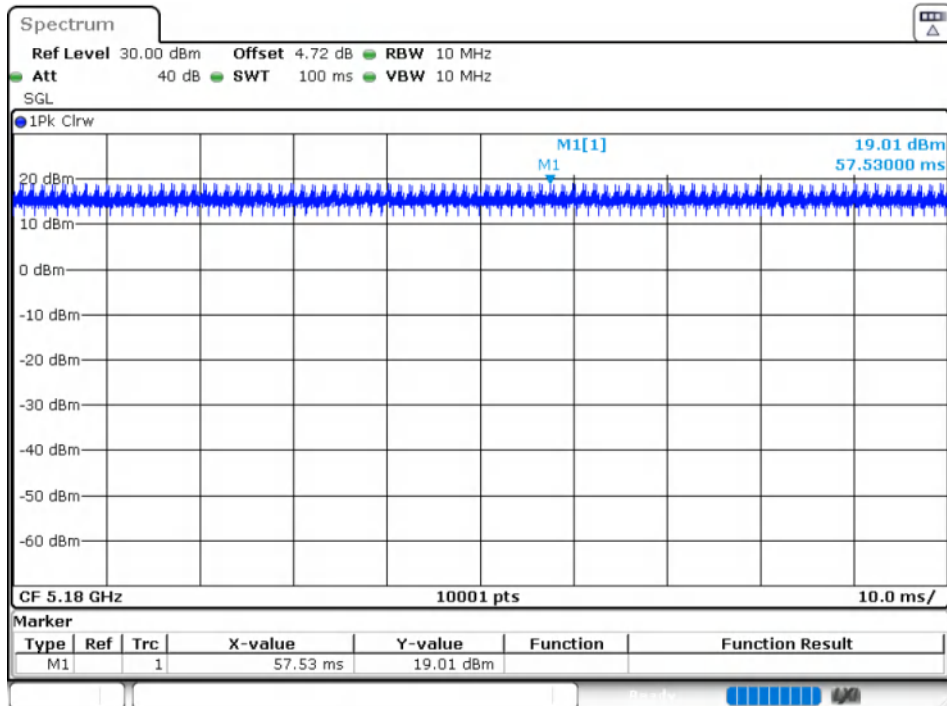
WIFI 5.2G MIMO Test Data

Duty Cycle

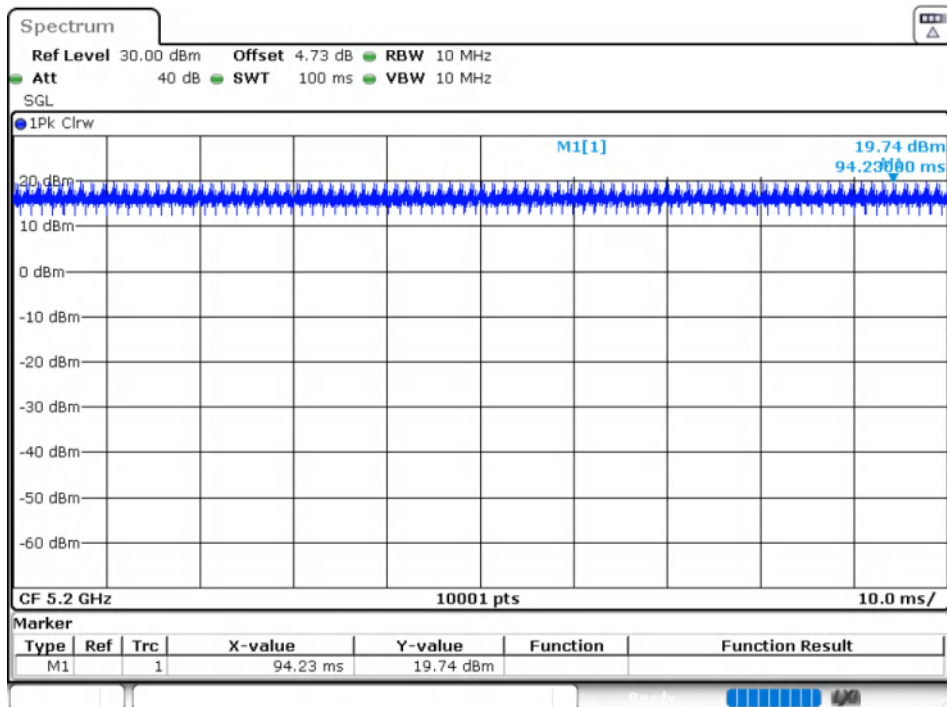
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ac20	5180	ANT1	100	0	/
NVNT	ac20	5200	ANT1	100	0	/
NVNT	ac20	5240	ANT1	100	0	/
NVNT	ac40	5190	ANT1	100	0	/
NVNT	ac40	5230	ANT1	100	0	/
NVNT	ac80	5210	ANT1	100	0	/
NVNT	ax20	5180	ANT1	100	0	/
NVNT	ax20	5200	ANT1	100	0	/
NVNT	ax20	5240	ANT1	100	0	/
NVNT	ax40	5190	ANT1	100	0	/
NVNT	ax40	5230	ANT1	100	0	/
NVNT	ax80	5210	ANT1	100	0	/
NVNT	n20	5180	ANT1	100	0	/
NVNT	n20	5200	ANT1	100	0	/
NVNT	n20	5240	ANT1	100	0	/
NVNT	n40	5190	ANT1	100	0	/
NVNT	n40	5230	ANT1	100	0	/

Test Graphs

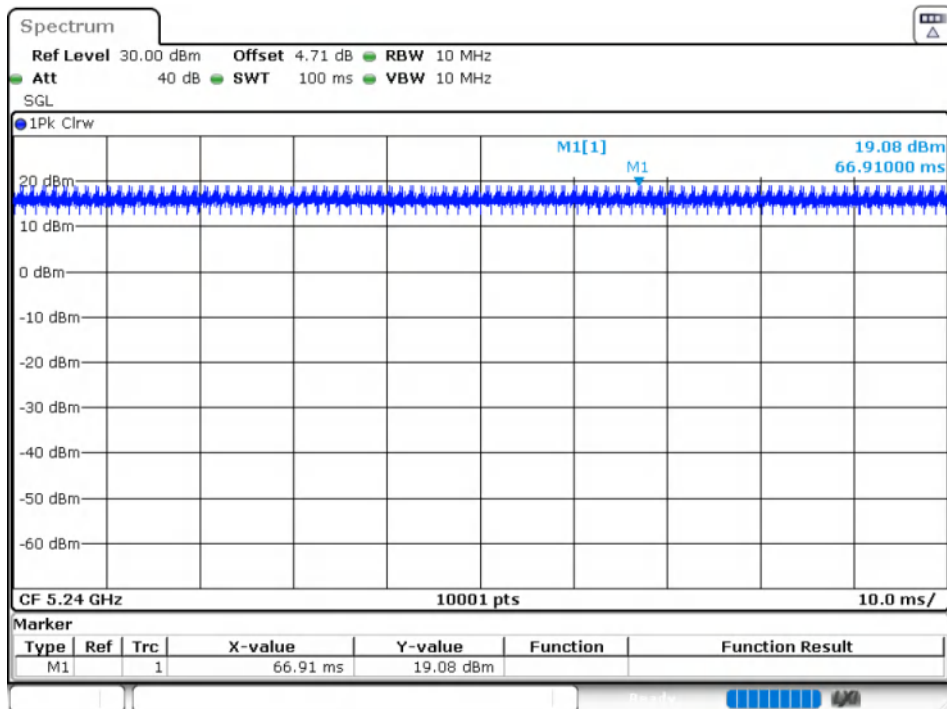
Duty Cycle NVNT ac20 5180MHz ANT1



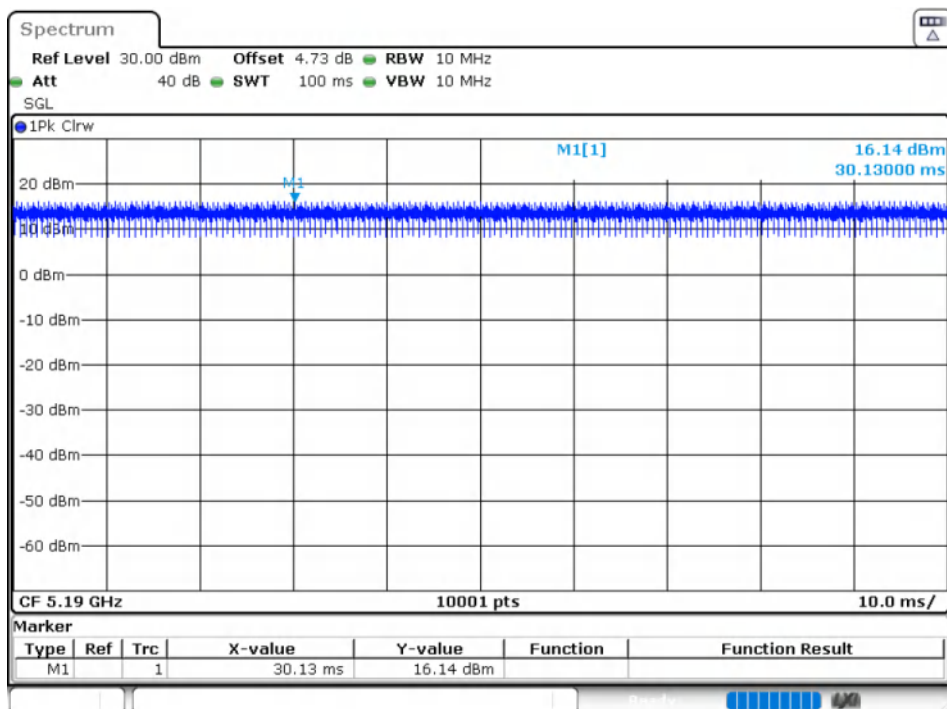
Duty Cycle NVNT ac20 5200MHz ANT1



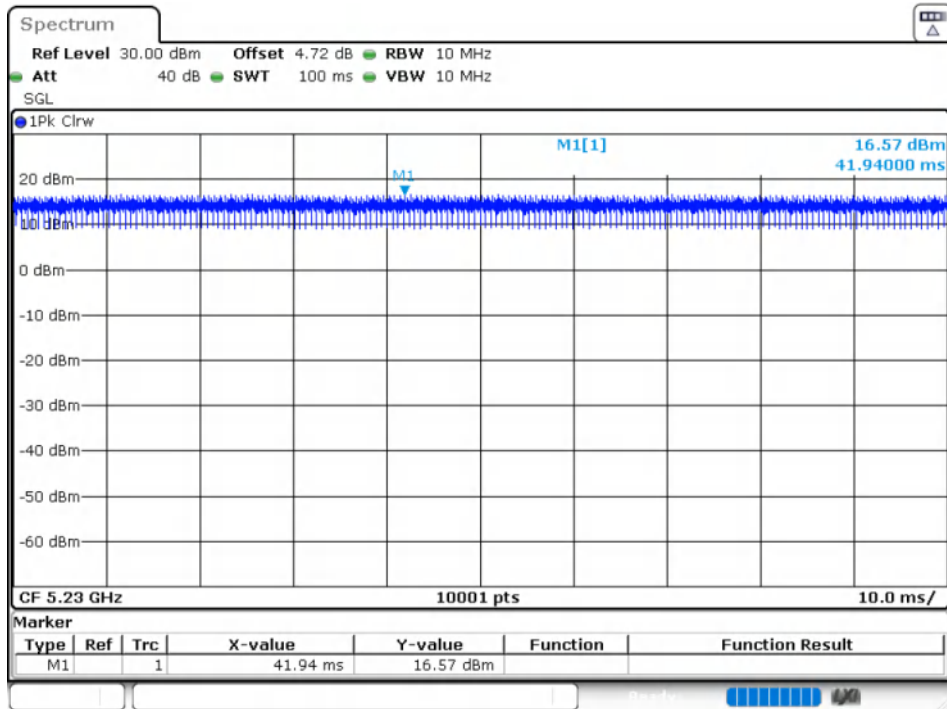
Duty Cycle NVNT ac20 5240MHz ANT1



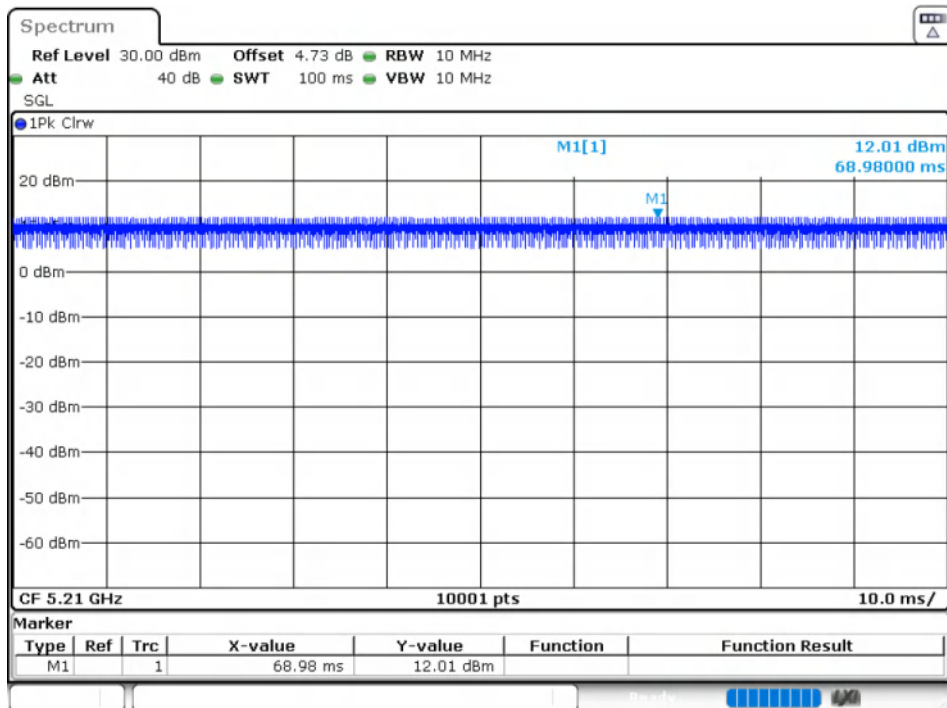
Duty Cycle NVNT ac40 5190MHz ANT1

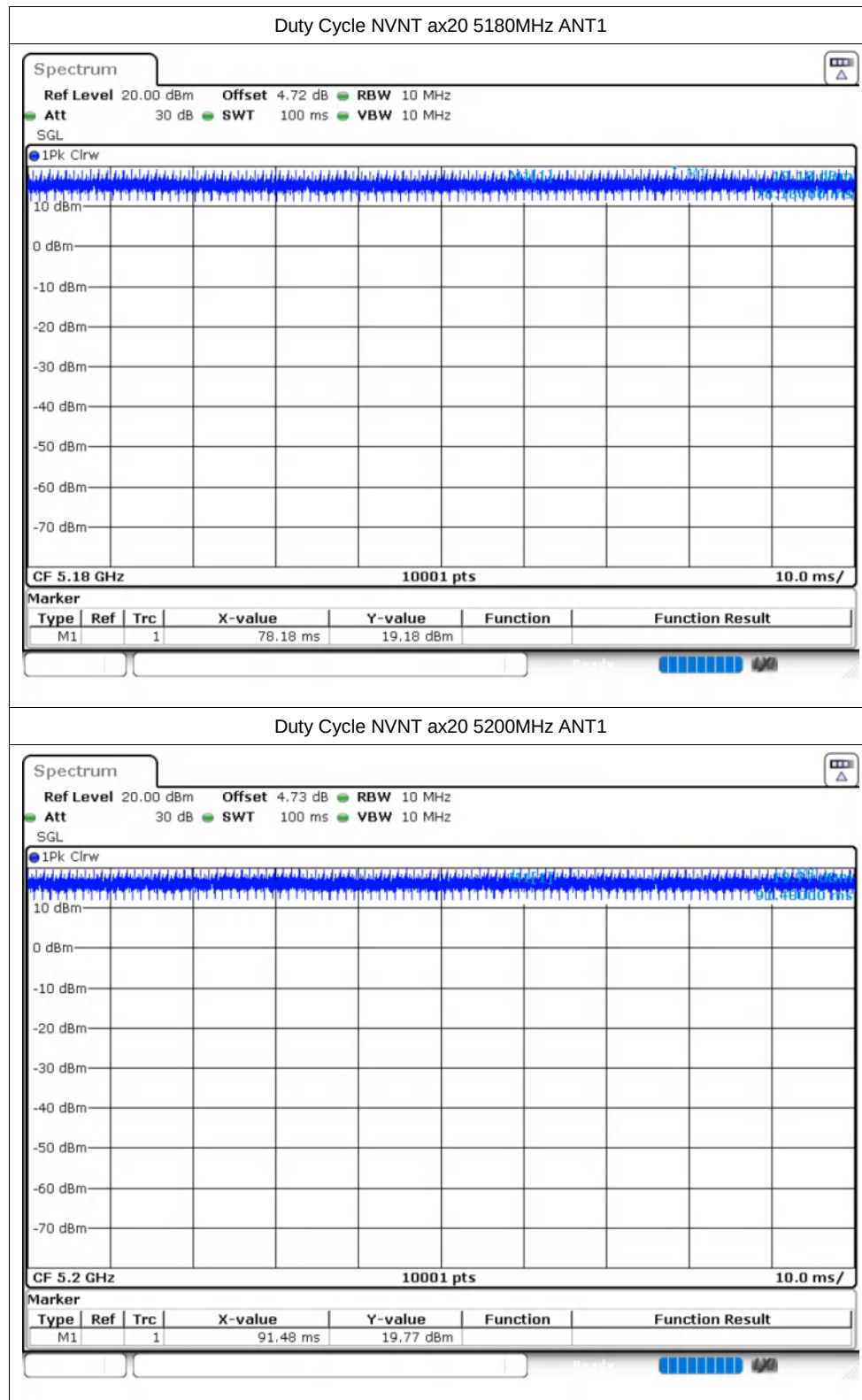


Duty Cycle NVNT ac40 5230MHz ANT1

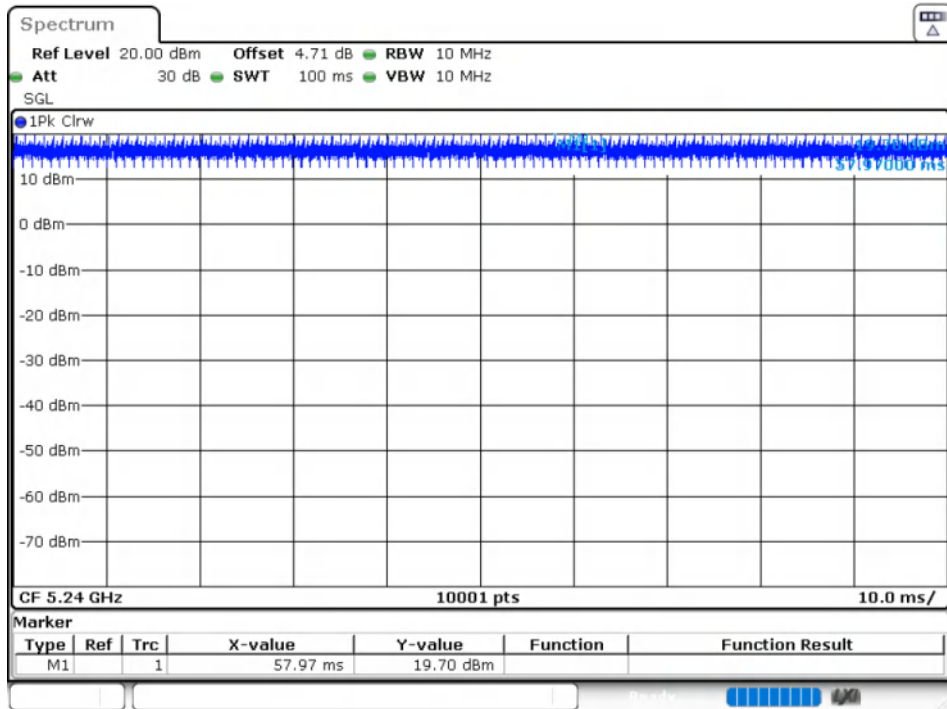


Duty Cycle NVNT ac80 5210MHz ANT1

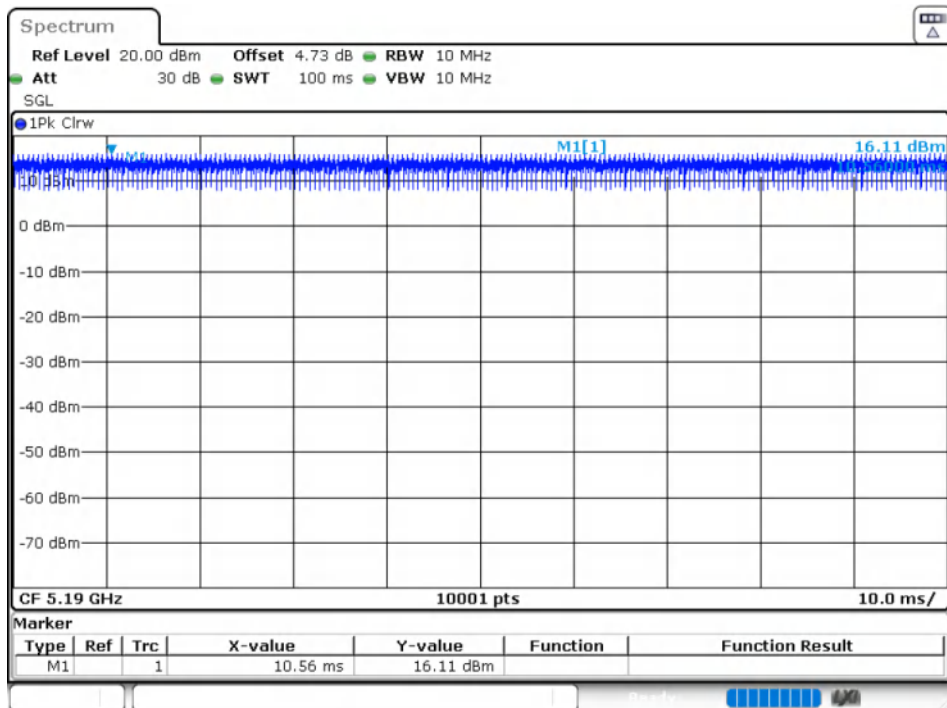




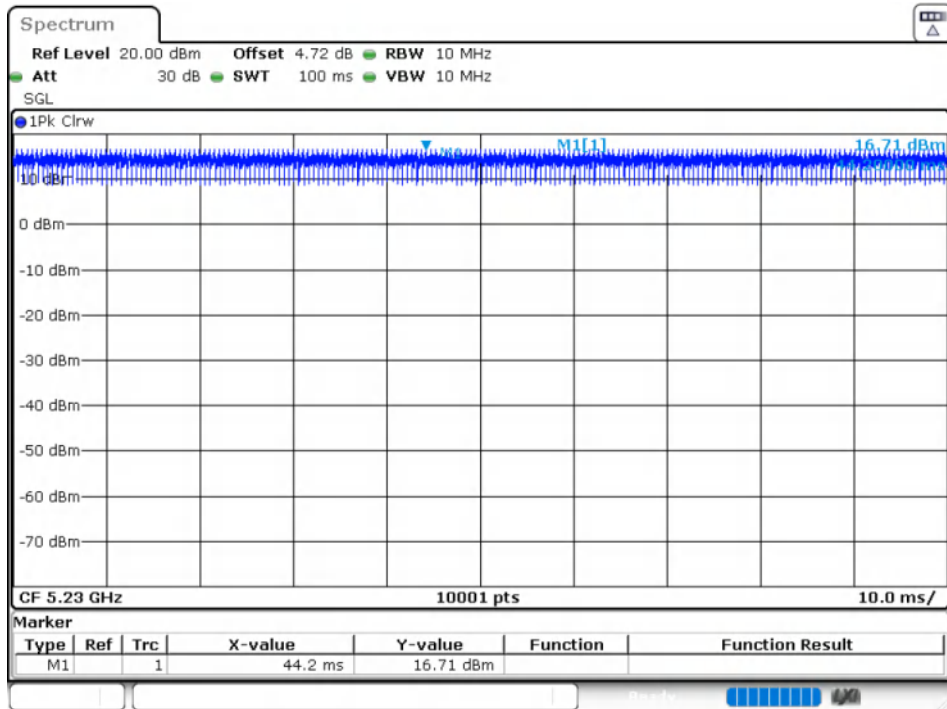
Duty Cycle NVNT ax20 5240MHz ANT1



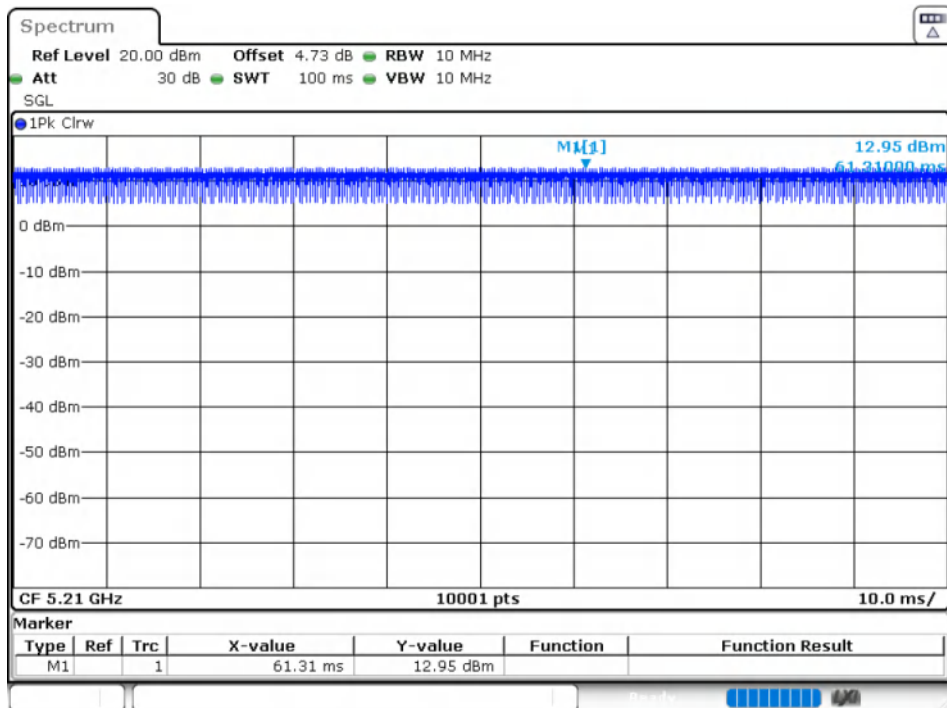
Duty Cycle NVNT ax40 5190MHz ANT1



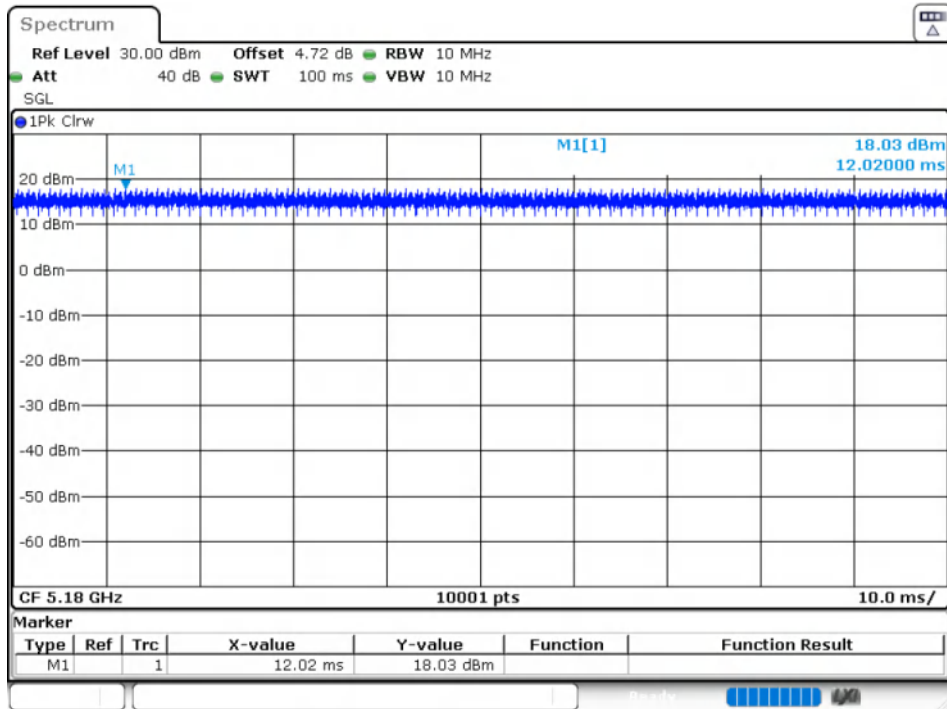
Duty Cycle NVNT ax40 5230MHz ANT1



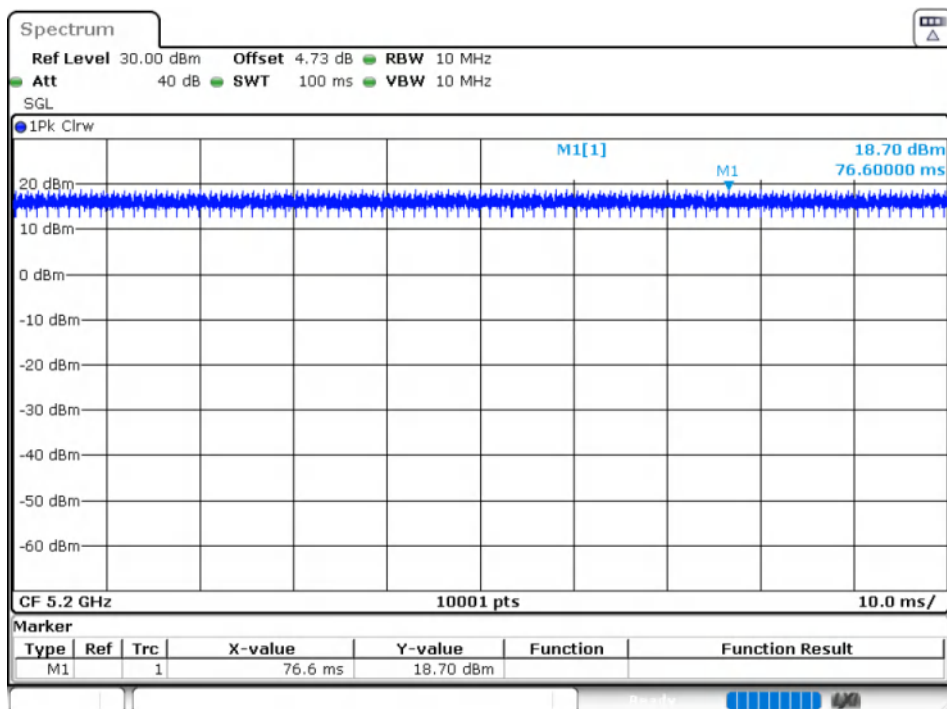
Duty Cycle NVNT ax80 5210MHz ANT1



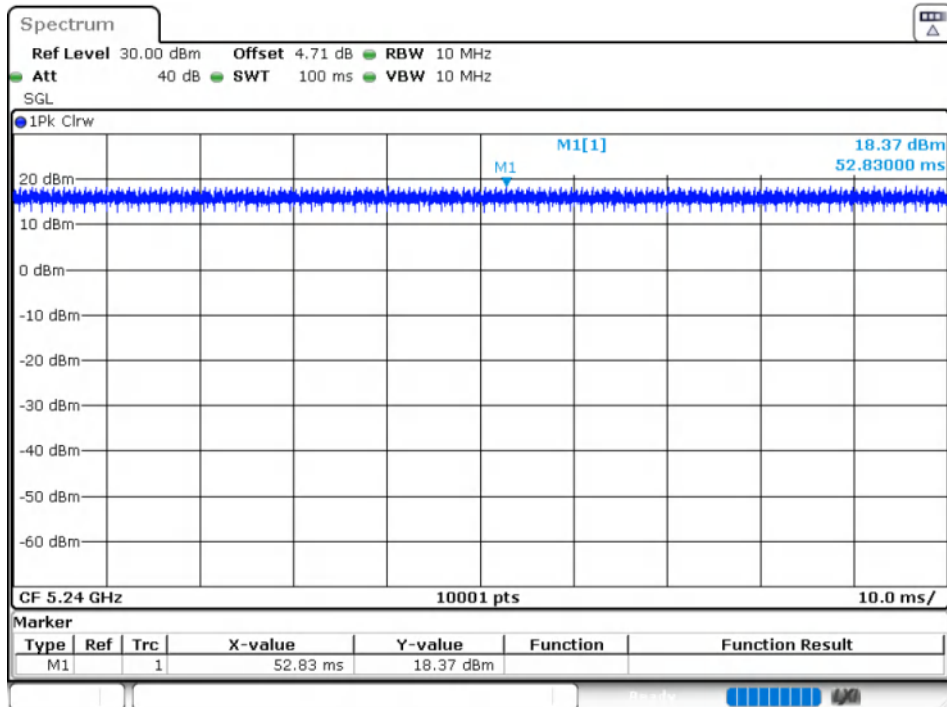
Duty Cycle NVNT n20 5180MHz ANT1



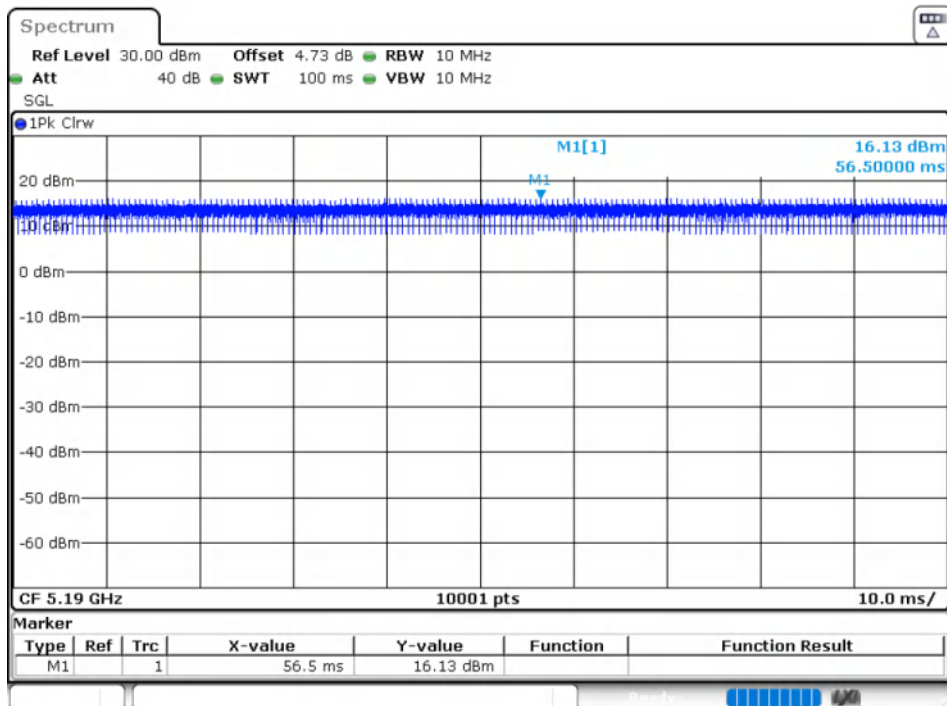
Duty Cycle NVNT n20 5200MHz ANT1

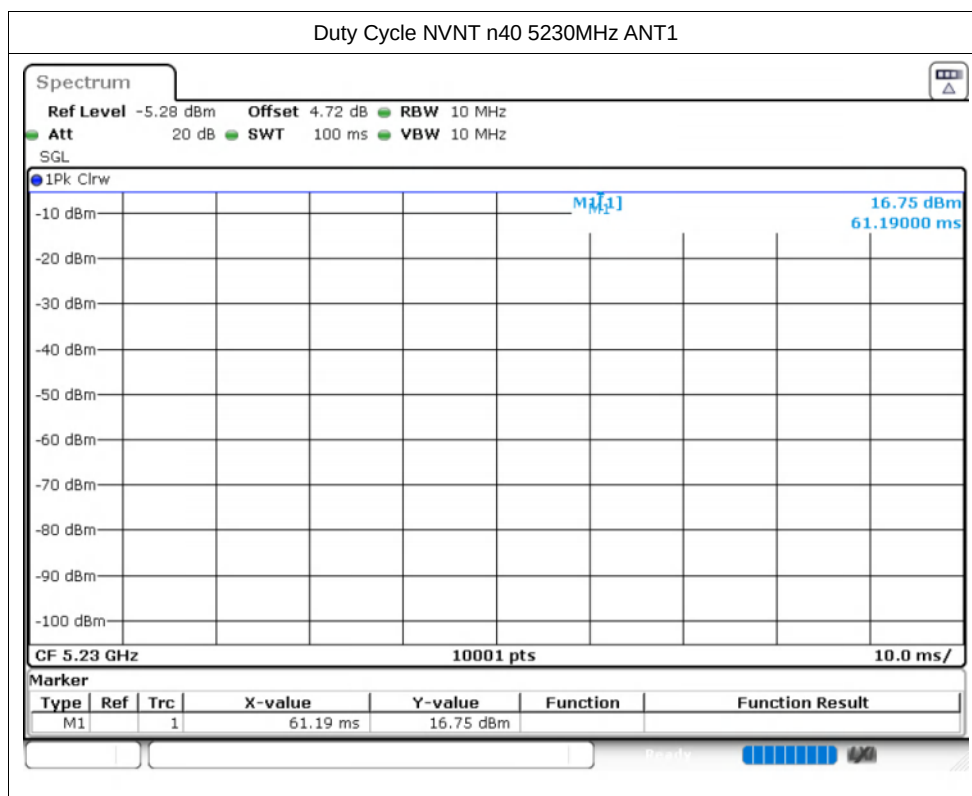


Duty Cycle NVNT n20 5240MHz ANT1



Duty Cycle NVNT n40 5190MHz ANT1





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Average Power (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant1	10.76	24	Pass
NVNT	ac20	5180	Ant2	11.31	24	Pass
NVNT	ac20	5180	Sum	14.05	24	Pass
NVNT	ac20	5200	Ant1	10.57	24	Pass
NVNT	ac20	5200	Ant2	11.32	24	Pass
NVNT	ac20	5200	Sum	13.97	24	Pass
NVNT	ac20	5240	Ant1	10.03	24	Pass
NVNT	ac20	5240	Ant2	11.21	24	Pass
NVNT	ac20	5240	Sum	13.67	24	Pass
NVNT	ac40	5190	Ant1	10.89	24	Pass
NVNT	ac40	5190	Ant2	11.73	24	Pass
NVNT	ac40	5190	Sum	14.34	24	Pass
NVNT	ac40	5230	Ant1	10.29	24	Pass
NVNT	ac40	5230	Ant2	11.63	24	Pass
NVNT	ac40	5230	Sum	14.02	24	Pass
NVNT	ac80	5210	Ant1	10.29	24	Pass
NVNT	ac80	5210	Ant2	11.55	24	Pass
NVNT	ac80	5210	Sum	13.98	24	Pass
NVNT	ax20	5180	Ant1	10.81	24	Pass
NVNT	ax20	5180	Ant2	11.22	24	Pass
NVNT	ax20	5180	Sum	14.03	24	Pass
NVNT	ax20	5200	Ant1	10.33	24	Pass
NVNT	ax20	5200	Ant2	11.3	24	Pass
NVNT	ax20	5200	Sum	13.85	24	Pass
NVNT	ax20	5240	Ant1	9.98	24	Pass
NVNT	ax20	5240	Ant2	11.13	24	Pass
NVNT	ax20	5240	Sum	13.6	24	Pass
NVNT	ax40	5190	Ant1	10.79	24	Pass
NVNT	ax40	5190	Ant2	11.73	24	Pass
NVNT	ax40	5190	Sum	14.3	24	Pass
NVNT	ax40	5230	Ant1	10.31	24	Pass
NVNT	ax40	5230	Ant2	11.6	24	Pass
NVNT	ax40	5230	Sum	14.01	24	Pass
NVNT	ax80	5210	Ant1	10.47	24	Pass
NVNT	ax80	5210	Ant2	11.66	24	Pass
NVNT	ax80	5210	Sum	14.12	24	Pass
NVNT	n20	5180	Ant1	10.99	24	Pass
NVNT	n20	5180	Ant2	11.31	24	Pass
NVNT	n20	5180	Sum	14.16	24	Pass
NVNT	n20	5200	Ant1	10.89	24	Pass

NVNT	n20	5200	Ant2	11.34	24	Pass
NVNT	n20	5200	Sum	14.13	24	Pass
NVNT	n20	5240	Ant1	10.22	24	Pass
NVNT	n20	5240	Ant2	11.11	24	Pass
NVNT	n20	5240	Sum	13.7	24	Pass
NVNT	n40	5190	Ant1	11.04	24	Pass
NVNT	n40	5190	Ant2	11.74	24	Pass
NVNT	n40	5190	Sum	14.41	24	Pass
NVNT	n40	5230	Ant1	10.59	24	Pass
NVNT	n40	5230	Ant2	11.59	24	Pass
NVNT	n40	5230	Sum	14.13	24	Pass

Note:

- For 802.11n20/n40/ac20/ac40/ac80/ax20/ax40/ax80, 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 = $2.71 + 3 = 5.71 \text{dBi} < 6 \text{dBi}$, So the limit does not need to be reduced.
- The conducted average power contains duty cycle factor.
- Belongs to client devices.

Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	ac20	5180	Ant1	-0.86	0	-0.86	11	Pass
NVNT	ac20	5180	Ant2	-1.01	0	-1.01	11	Pass
NVNT	ac20	5180	Sum	2.08	0	2.08	11	Pass
NVNT	ac20	5200	Ant1	-0.27	0	-0.27	11	Pass
NVNT	ac20	5200	Ant2	-0.03	0	-0.03	11	Pass
NVNT	ac20	5200	Sum	2.86	0	2.86	11	Pass
NVNT	ac20	5240	Ant1	-0.2	0	-0.2	11	Pass
NVNT	ac20	5240	Ant2	0.06	0	0.06	11	Pass
NVNT	ac20	5240	Sum	2.94	0	2.94	11	Pass
NVNT	ac40	5190	Ant1	-3.84	0	-3.84	11	Pass
NVNT	ac40	5190	Ant2	-3.53	0	-3.53	11	Pass
NVNT	ac40	5190	Sum	-0.67	0	-0.67	11	Pass
NVNT	ac40	5230	Ant1	-3.21	0	-3.21	11	Pass
NVNT	ac40	5230	Ant2	-2.73	0	-2.73	11	Pass
NVNT	ac40	5230	Sum	0.05	0	0.05	11	Pass
NVNT	ac80	5210	Ant1	-6.54	0	-6.54	11	Pass
NVNT	ac80	5210	Ant2	-6.11	0	-6.11	11	Pass
NVNT	ac80	5210	Sum	-3.31	0	-3.31	11	Pass
NVNT	ax20	5180	Ant1	-1.18	0	-1.18	11	Pass
NVNT	ax20	5180	Ant2	-1.28	0	-1.28	11	Pass
NVNT	ax20	5180	Sum	1.78	0	1.78	11	Pass
NVNT	ax20	5200	Ant1	-0.61	0	-0.61	11	Pass
NVNT	ax20	5200	Ant2	-0.37	0	-0.37	11	Pass
NVNT	ax20	5200	Sum	2.52	0	2.52	11	Pass
NVNT	ax20	5240	Ant1	-0.29	0	-0.29	11	Pass
NVNT	ax20	5240	Ant2	-0.32	0	-0.32	11	Pass
NVNT	ax20	5240	Sum	2.71	0	2.71	11	Pass
NVNT	ax40	5190	Ant1	-4	0	-4	11	Pass
NVNT	ax40	5190	Ant2	-3.49	0	-3.49	11	Pass
NVNT	ax40	5190	Sum	-0.73	0	-0.73	11	Pass
NVNT	ax40	5230	Ant1	-3.35	0	-3.35	11	Pass
NVNT	ax40	5230	Ant2	-2.78	0	-2.78	11	Pass
NVNT	ax40	5230	Sum	-0.05	0	-0.05	11	Pass
NVNT	ax80	5210	Ant1	-6.67	0	-6.67	11	Pass
NVNT	ax80	5210	Ant2	-6.6	0	-6.6	11	Pass
NVNT	ax80	5210	Sum	-3.62	0	-3.62	11	Pass
NVNT	n20	5180	Ant1	-0.79	0	-0.79	11	Pass
NVNT	n20	5180	Ant2	0.07	0	0.07	11	Pass
NVNT	n20	5180	Sum	2.67	0	2.67	11	Pass

NVNT	n20	5200	Ant1	-0.28	0	-0.28	11	Pass
NVNT	n20	5200	Ant2	-0.24	0	-0.24	11	Pass
NVNT	n20	5200	Sum	2.75	0	2.75	11	Pass
NVNT	n20	5240	Ant1	-0.35	0	-0.35	11	Pass
NVNT	n20	5240	Ant2	0.19	0	0.19	11	Pass
NVNT	n20	5240	Sum	2.94	0	2.94	11	Pass
NVNT	n40	5190	Ant1	-3.64	0	-3.64	11	Pass
NVNT	n40	5190	Ant2	-3.32	0	-3.32	11	Pass
NVNT	n40	5190	Sum	-0.47	0	-0.47	11	Pass
NVNT	n40	5230	Ant1	-3.74	0	-3.74	11	Pass
NVNT	n40	5230	Ant2	-3.09	0	-3.09	11	Pass
NVNT	n40	5230	Sum	-0.39	0	-0.39	11	Pass

Note:

- For 802.11n20/n40/ac20/ac40/ac80/ax20/ax40/ax80, this device employ CDD for MIMO mode, according to KDB 662911 D01

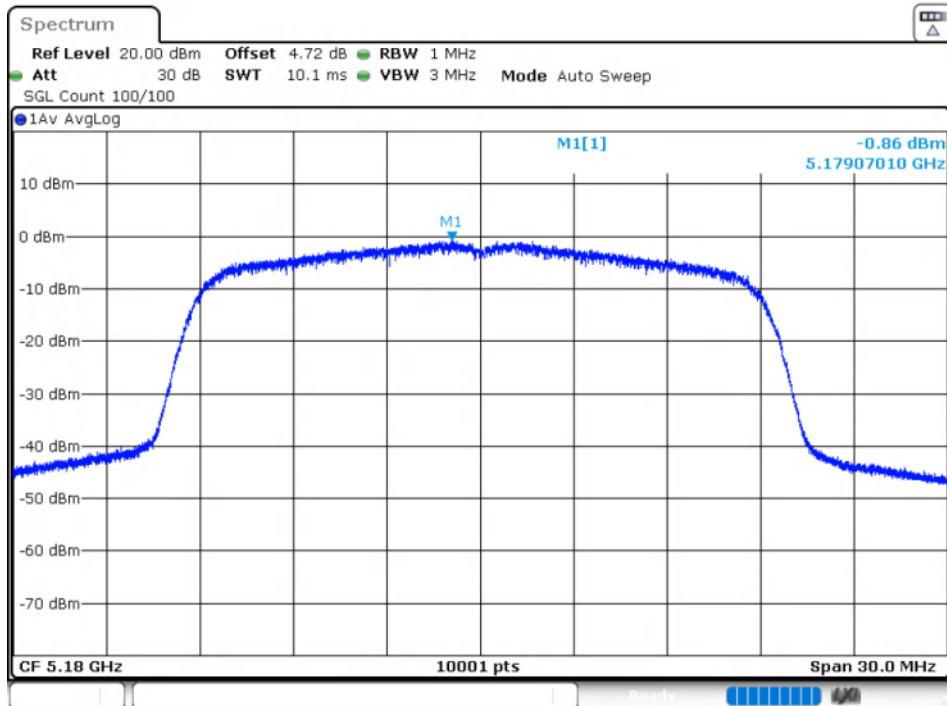
Multiple Transmitter

Output v02r01, Directional gain = $G_{ANT} + 10 \log(N)$

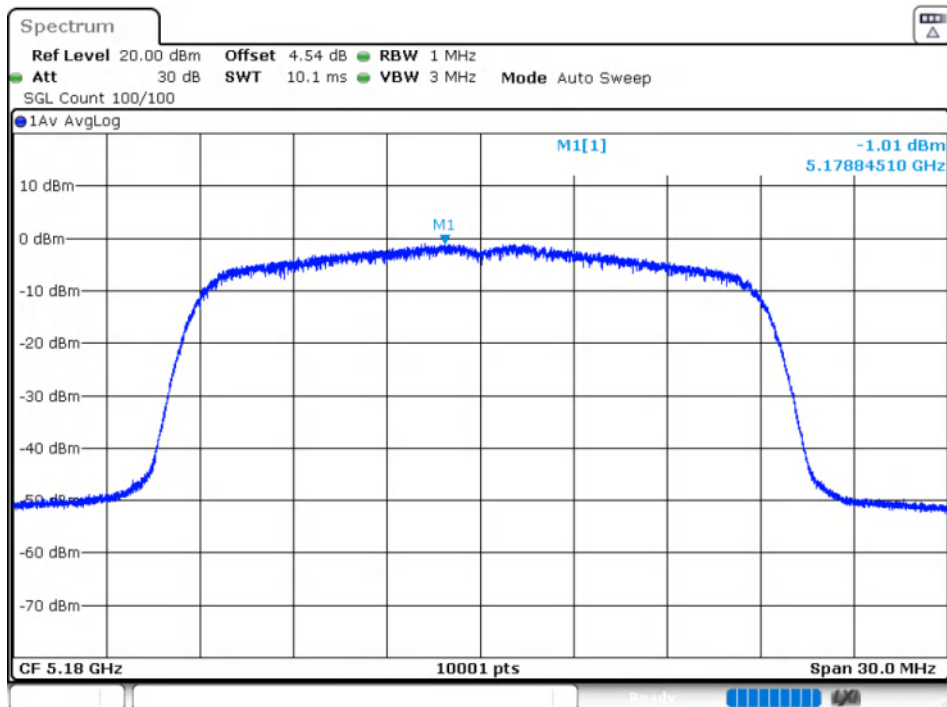
Directional gain = $2.71 + 3 = 5.71 \text{ dBi} < 6 \text{ dBi}$, So the limit does not need to be reduced.

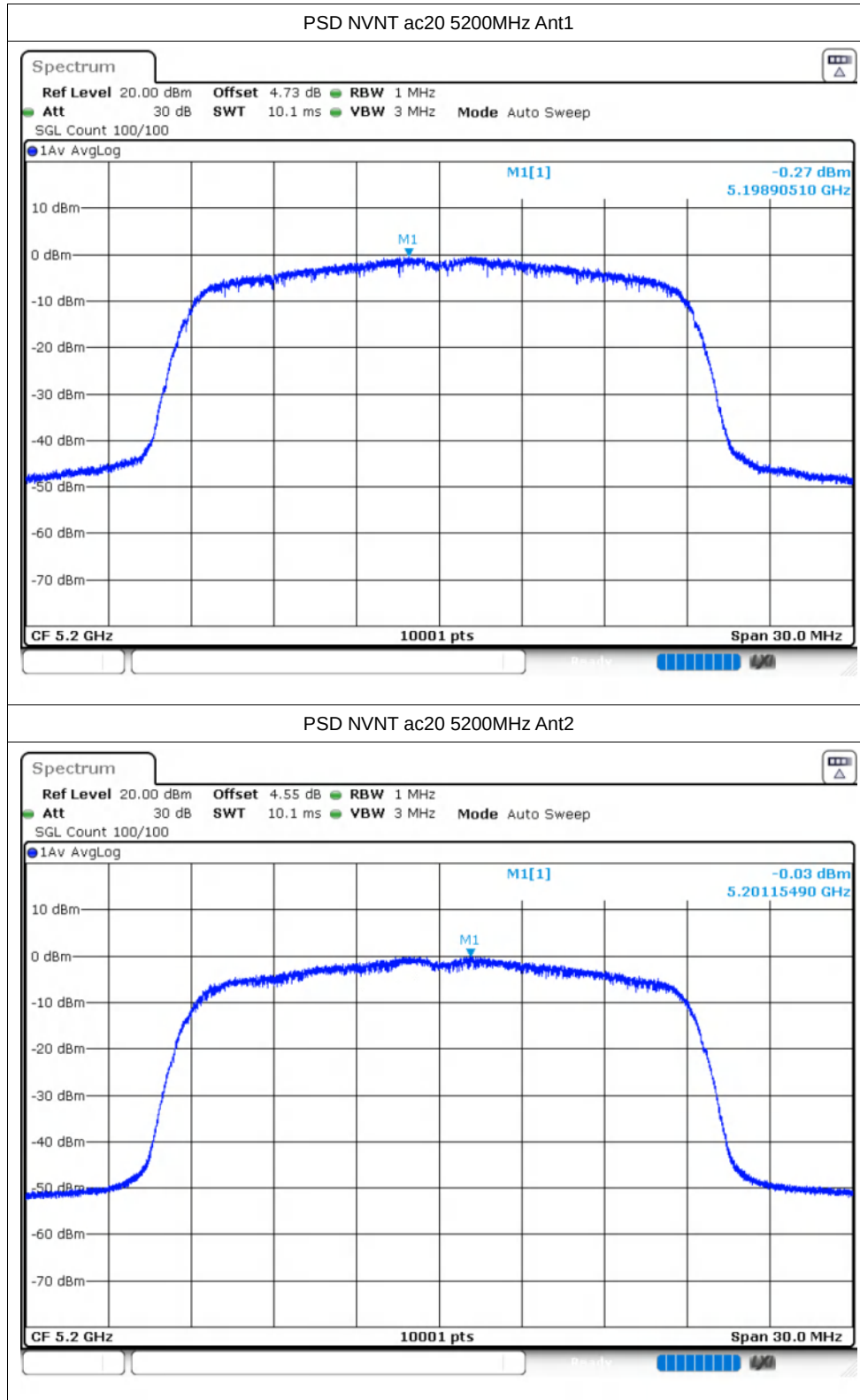
Test Graphs

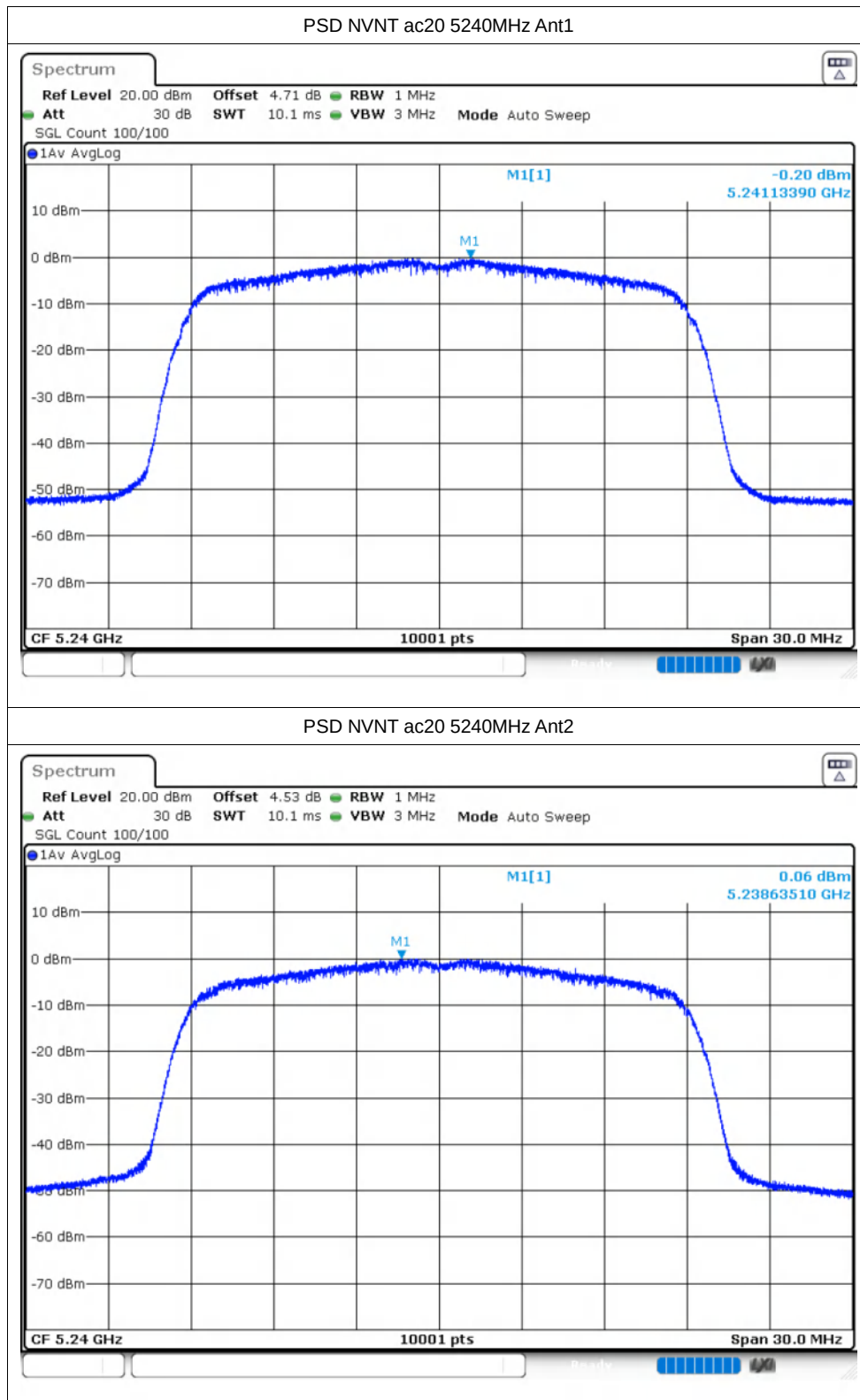
PSD NVNT ac20 5180MHz Ant1

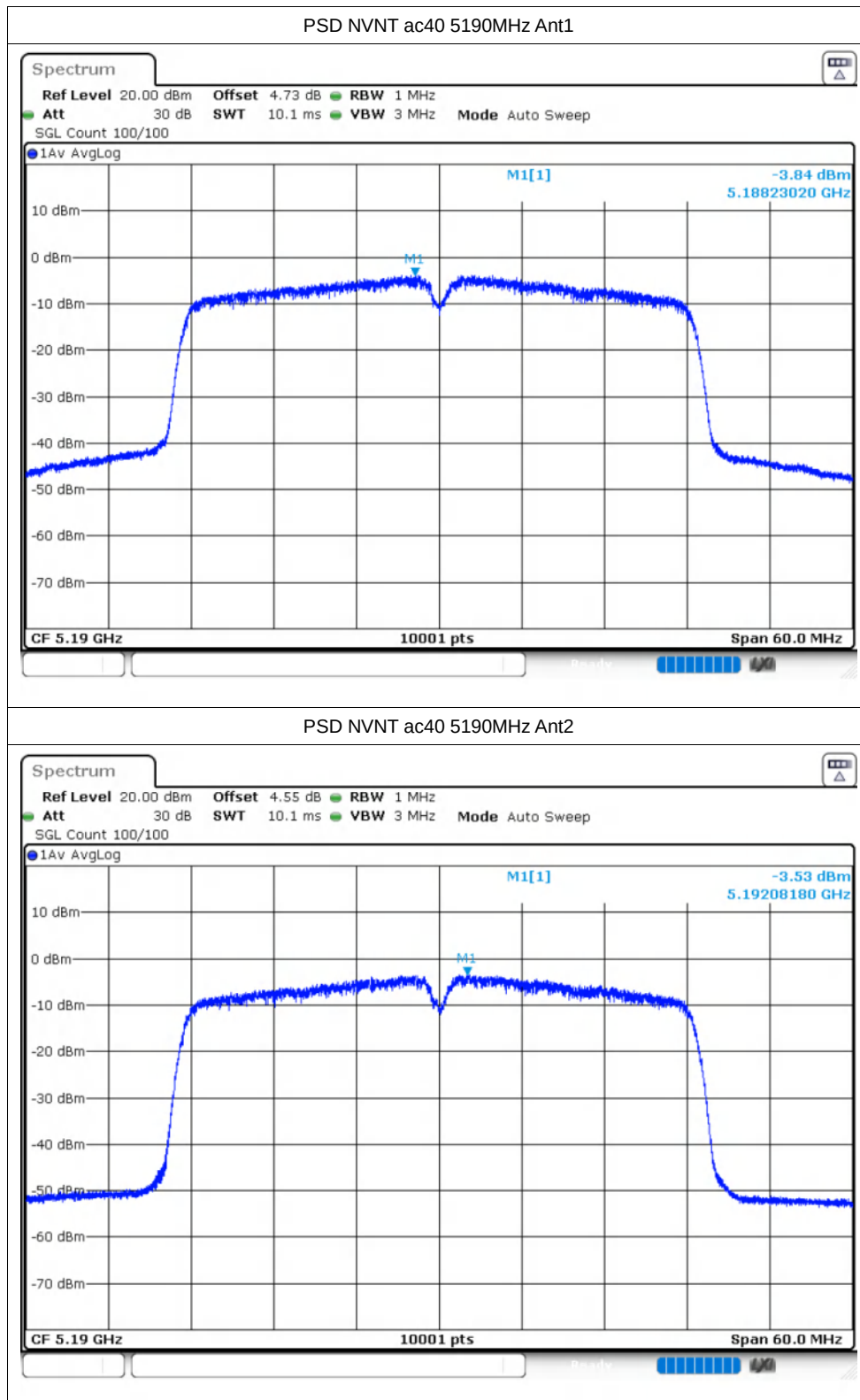


PSD NVNT ac20 5180MHz Ant2

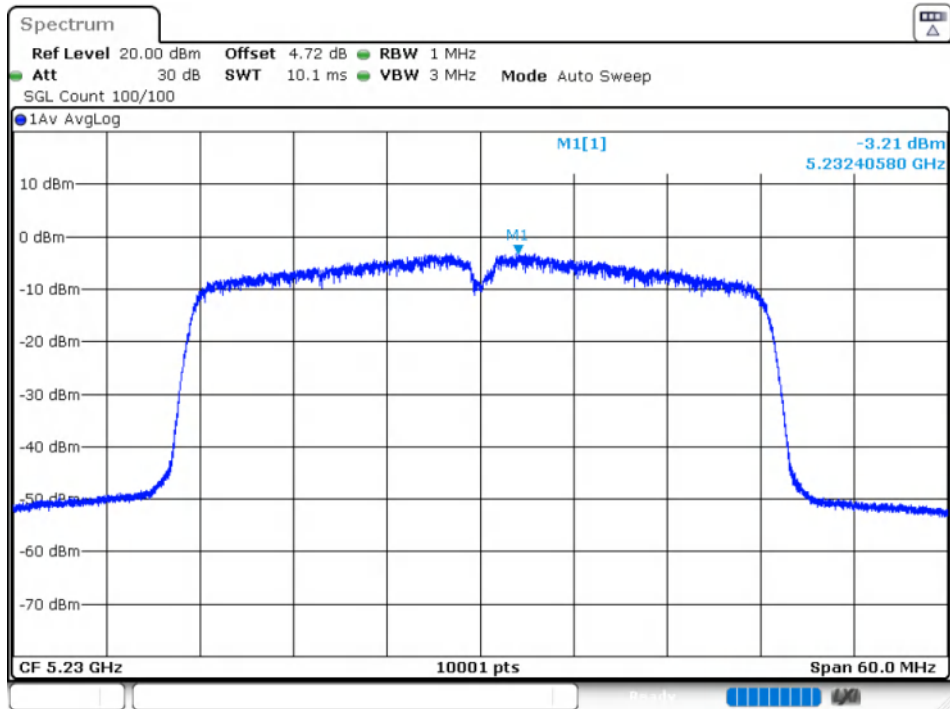




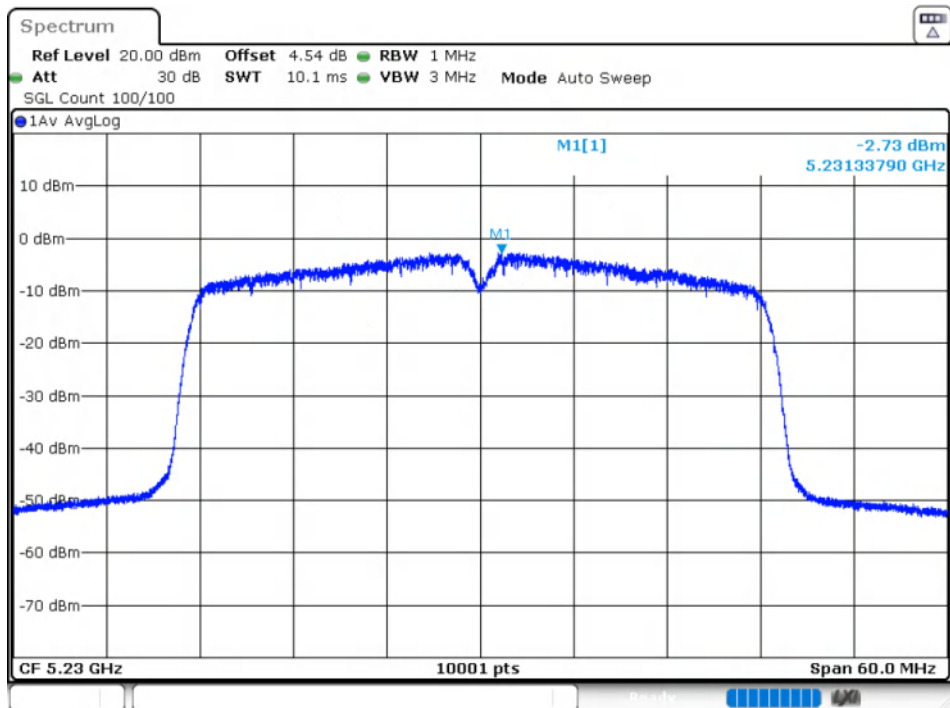


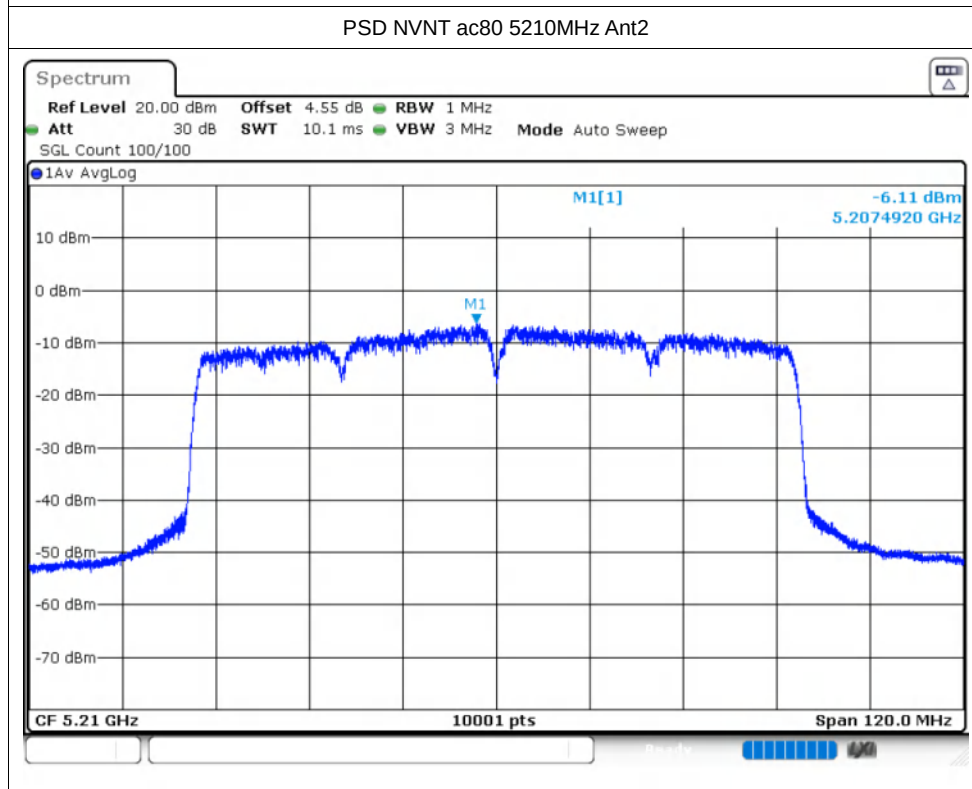
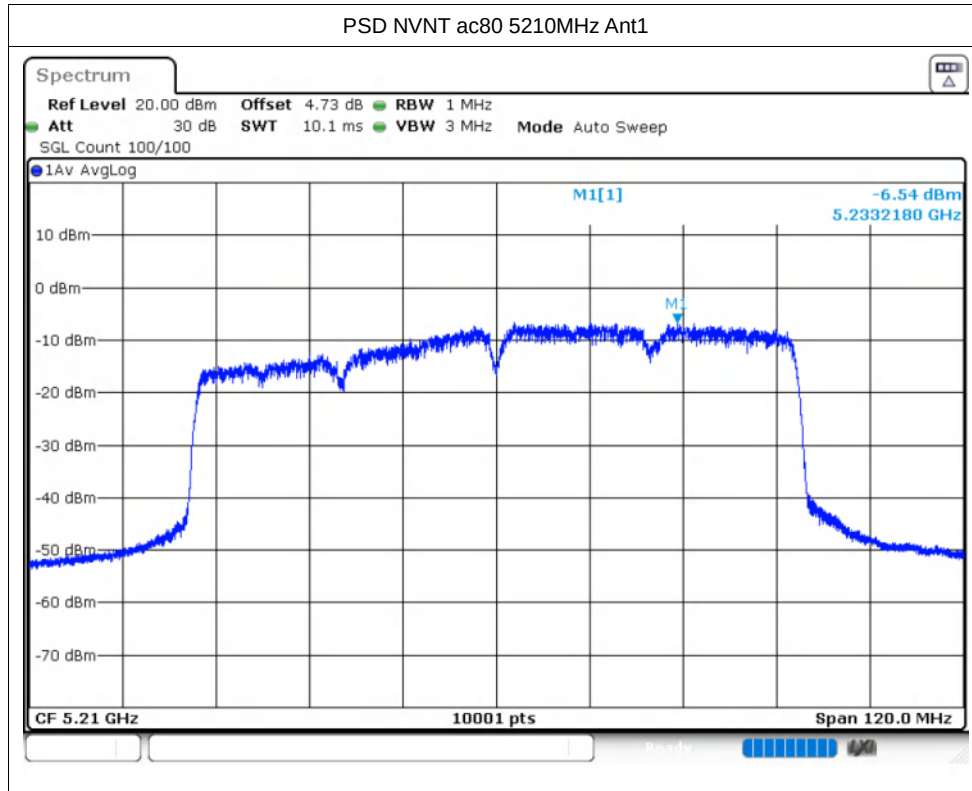


PSD NVNT ac40 5230MHz Ant1

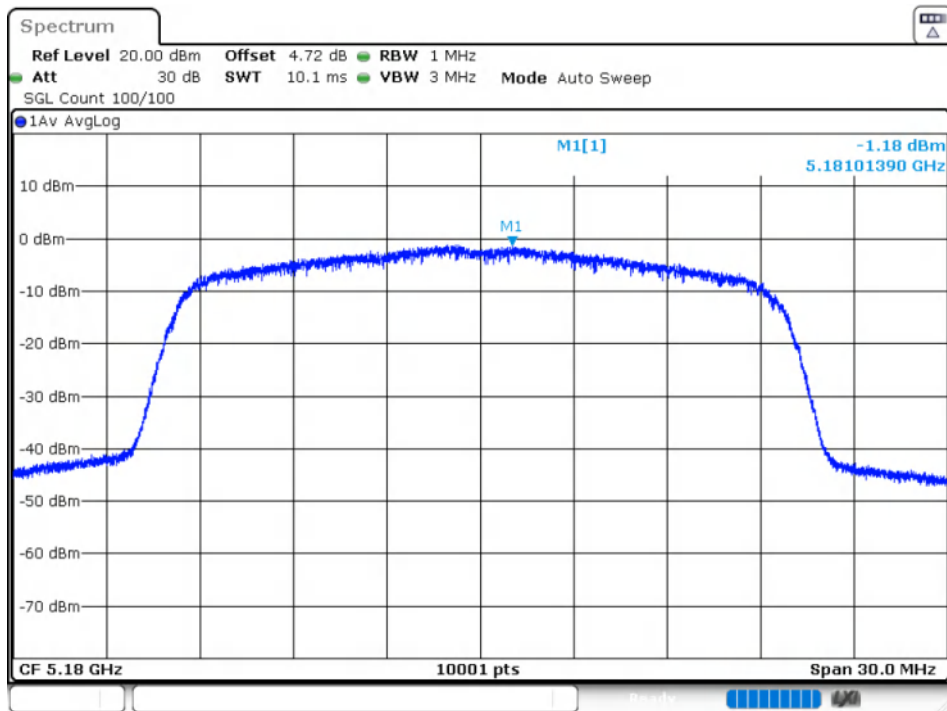


PSD NVNT ac40 5230MHz Ant2

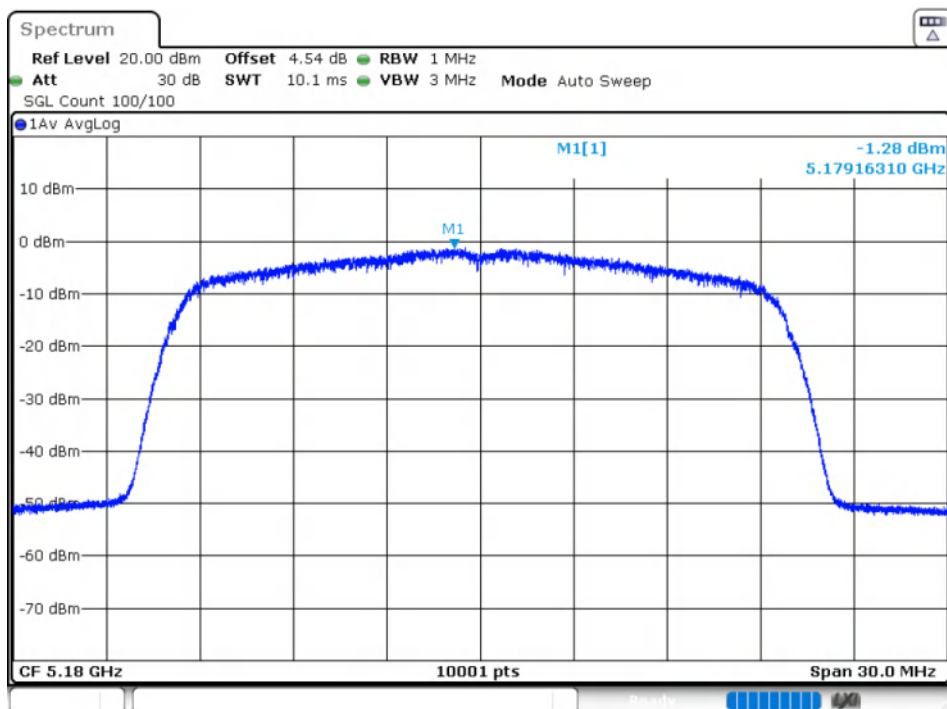




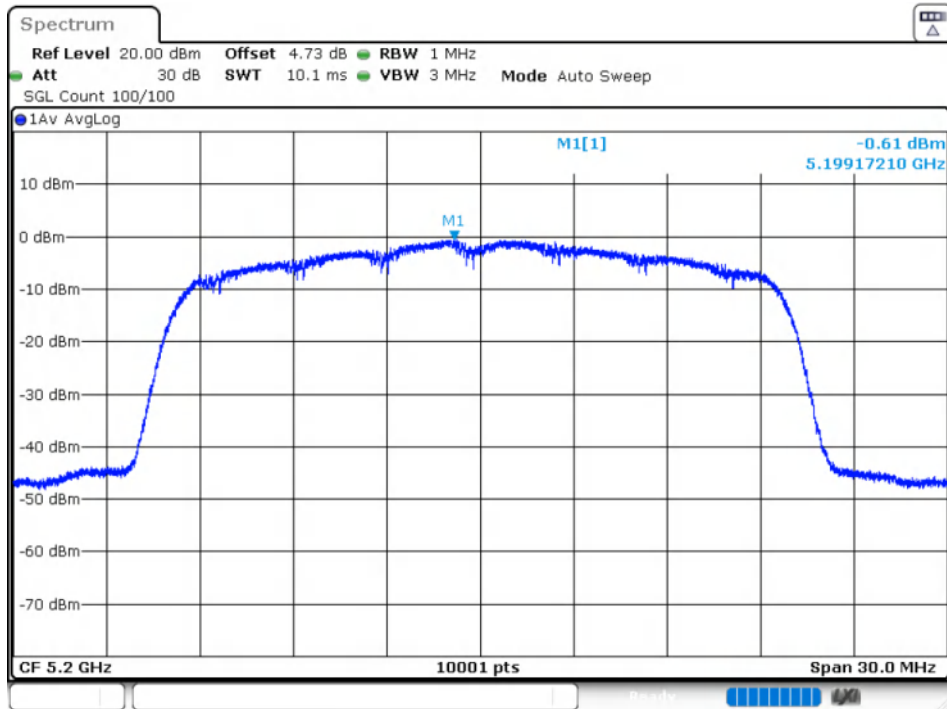
PSD NVNT ax20 5180MHz Ant1



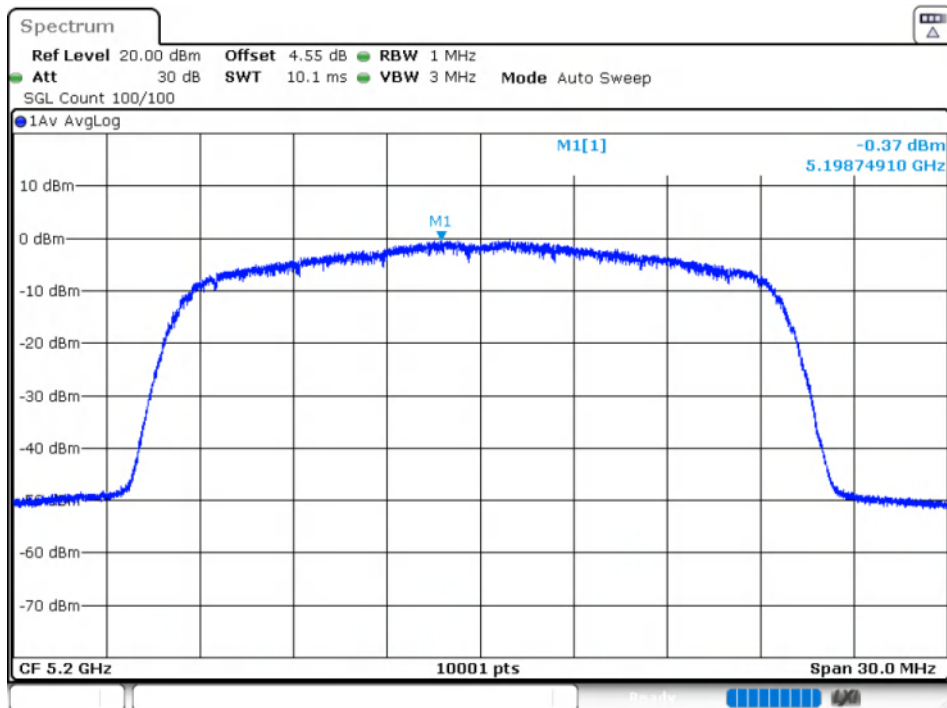
PSD NVNT ax20 5180MHz Ant2



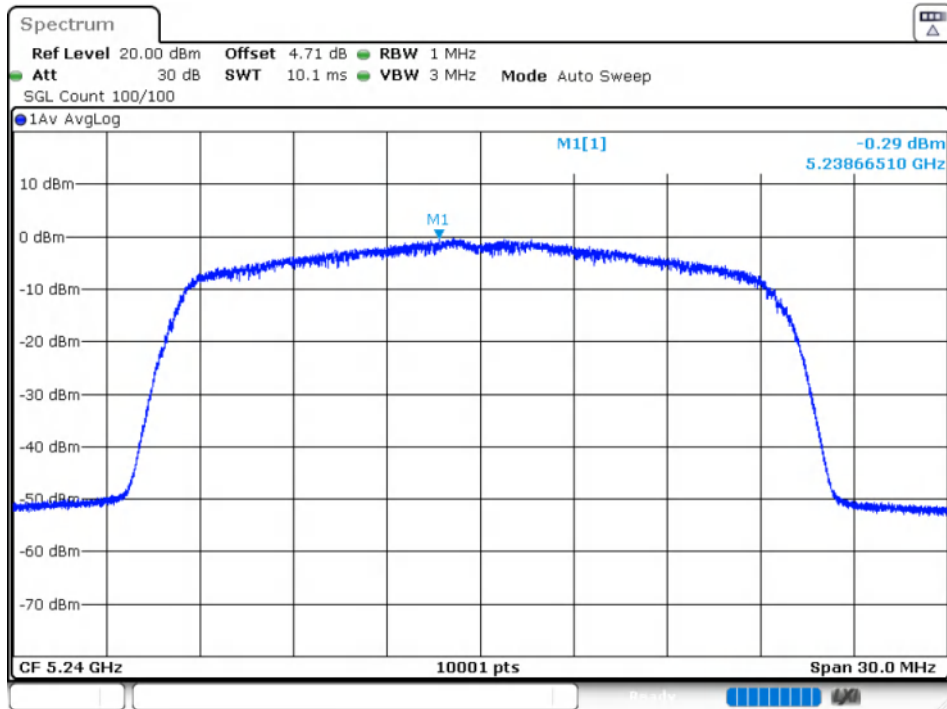
PSD NVNT ax20 5200MHz Ant1



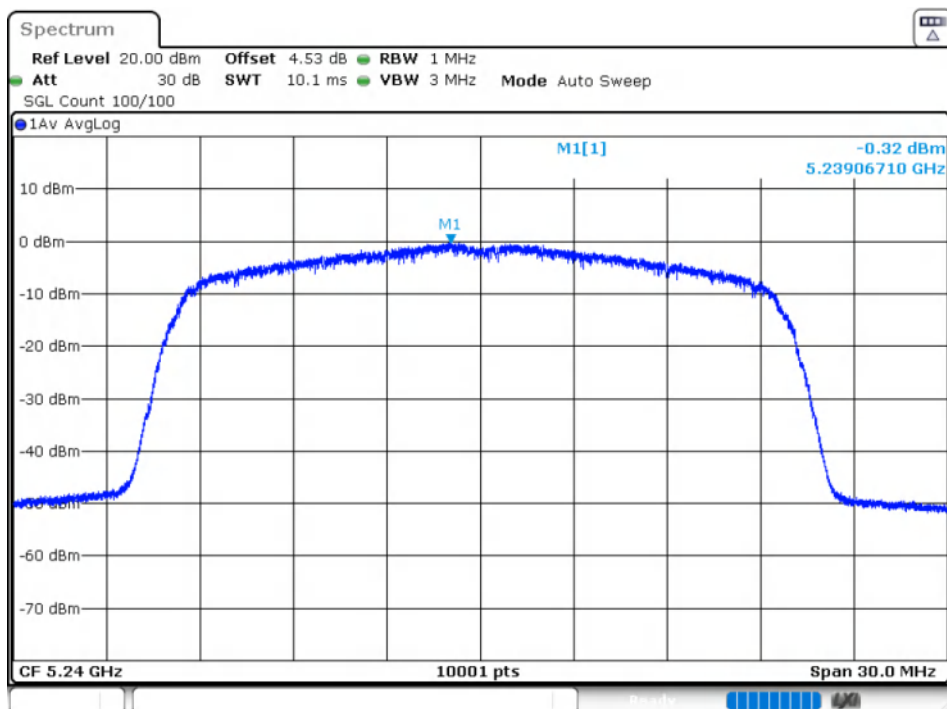
PSD NVNT ax20 5200MHz Ant2

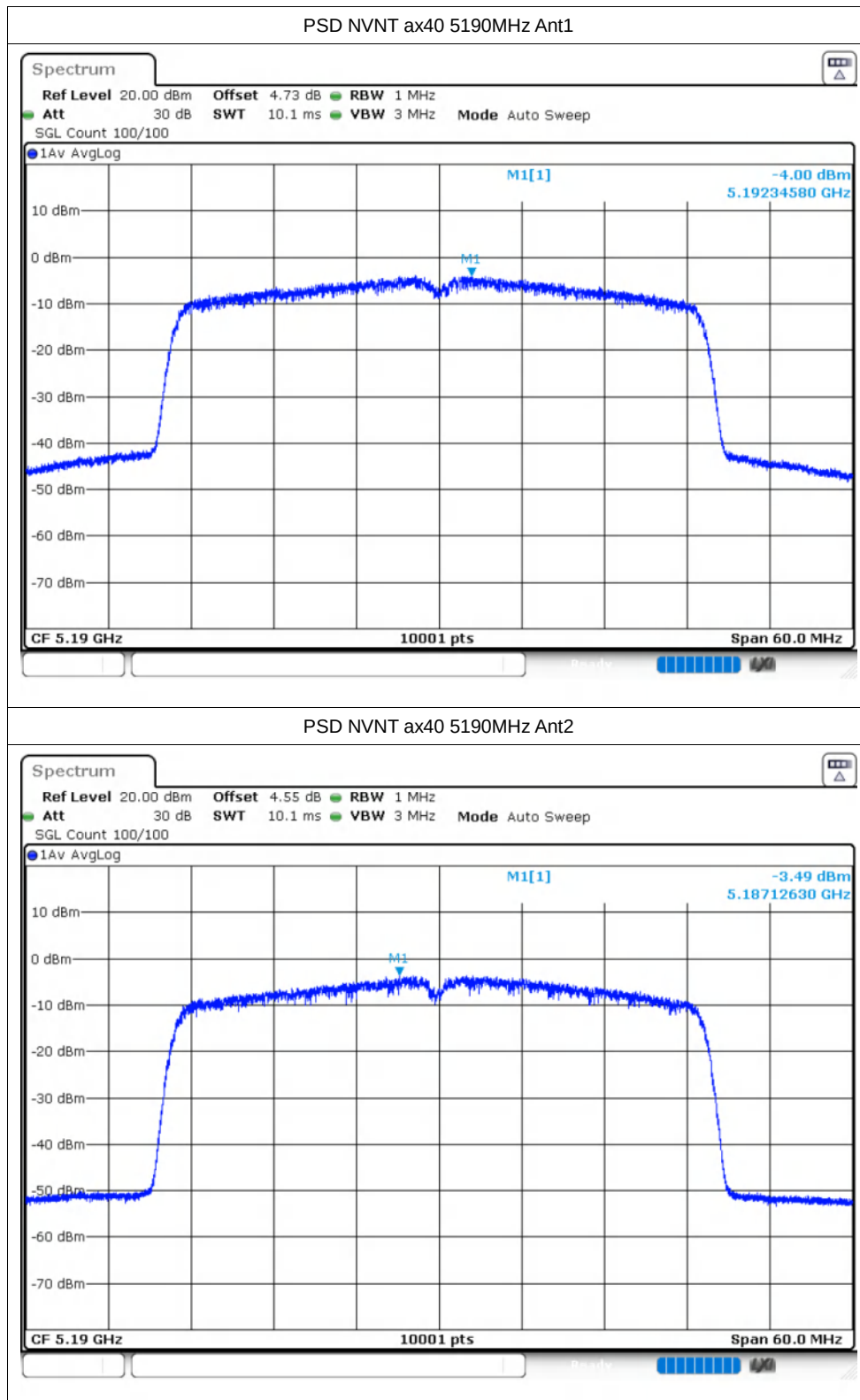


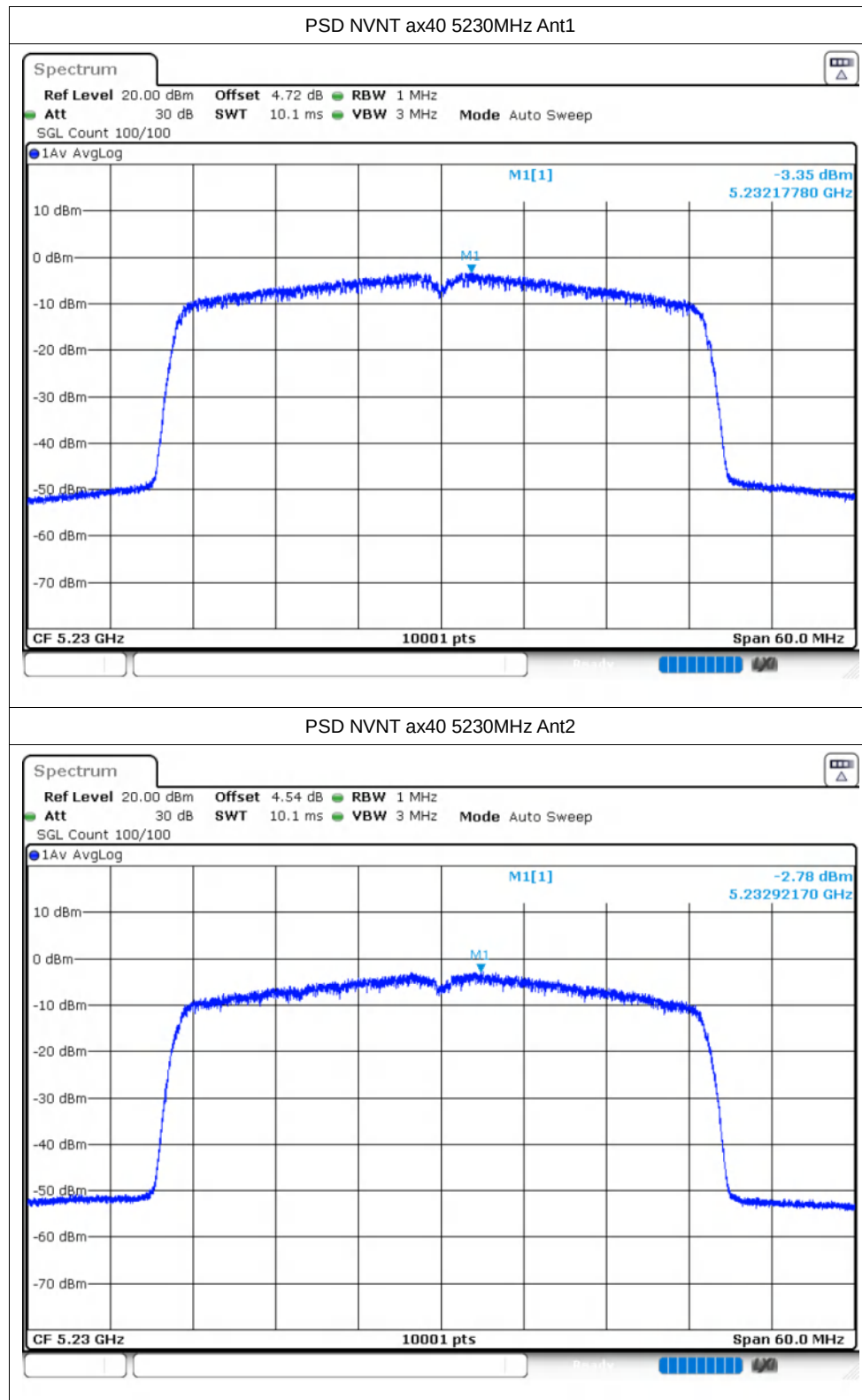
PSD NVNT ax20 5240MHz Ant1



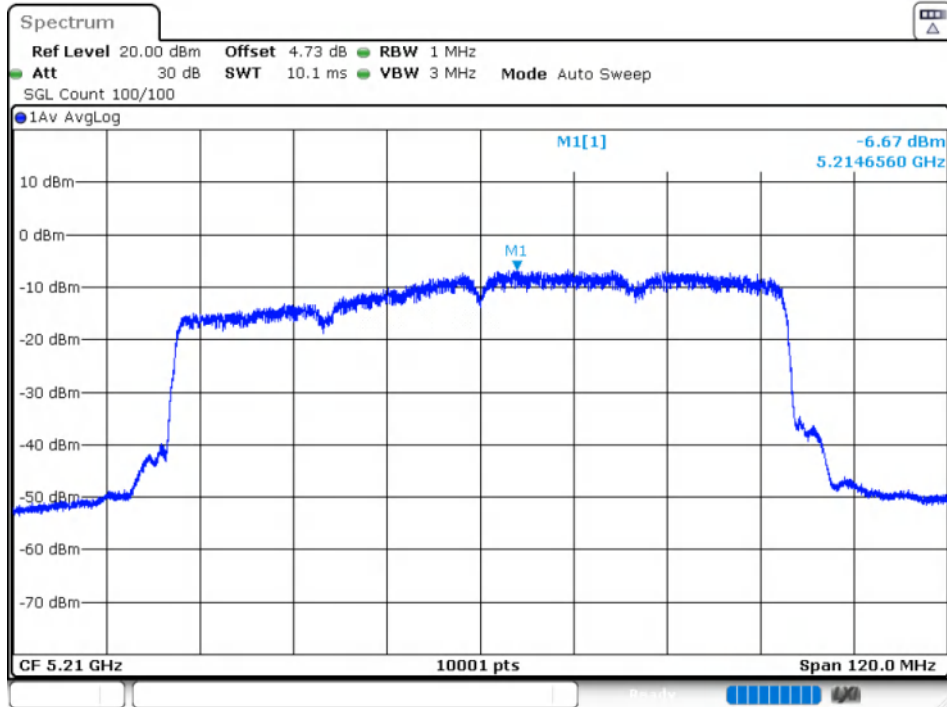
PSD NVNT ax20 5240MHz Ant2



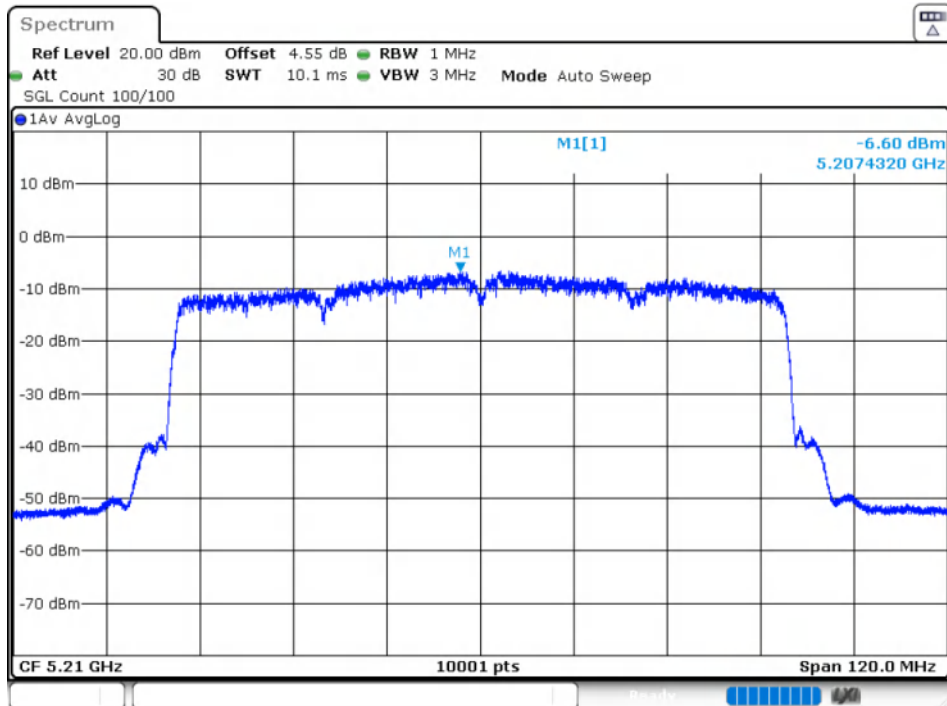


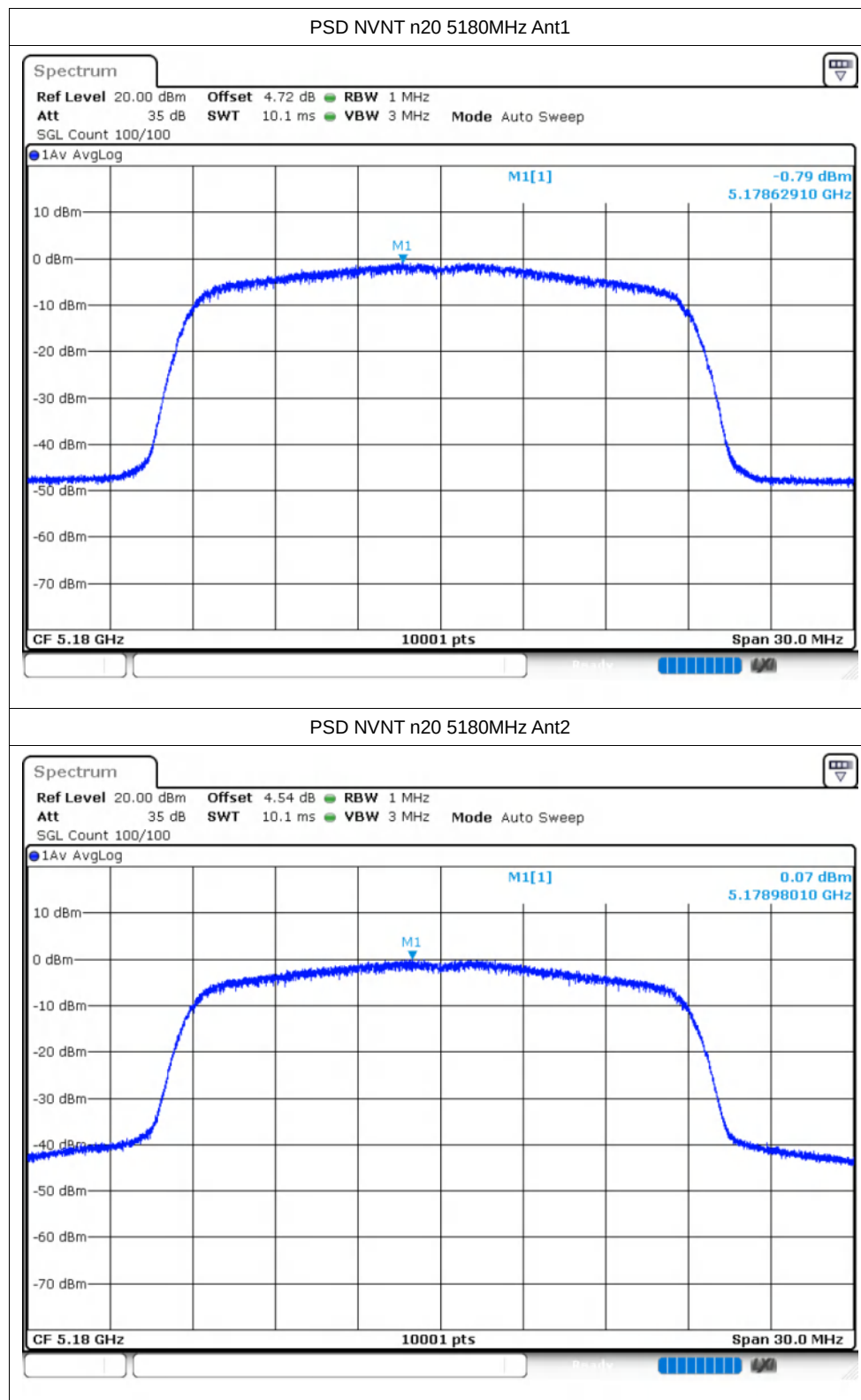


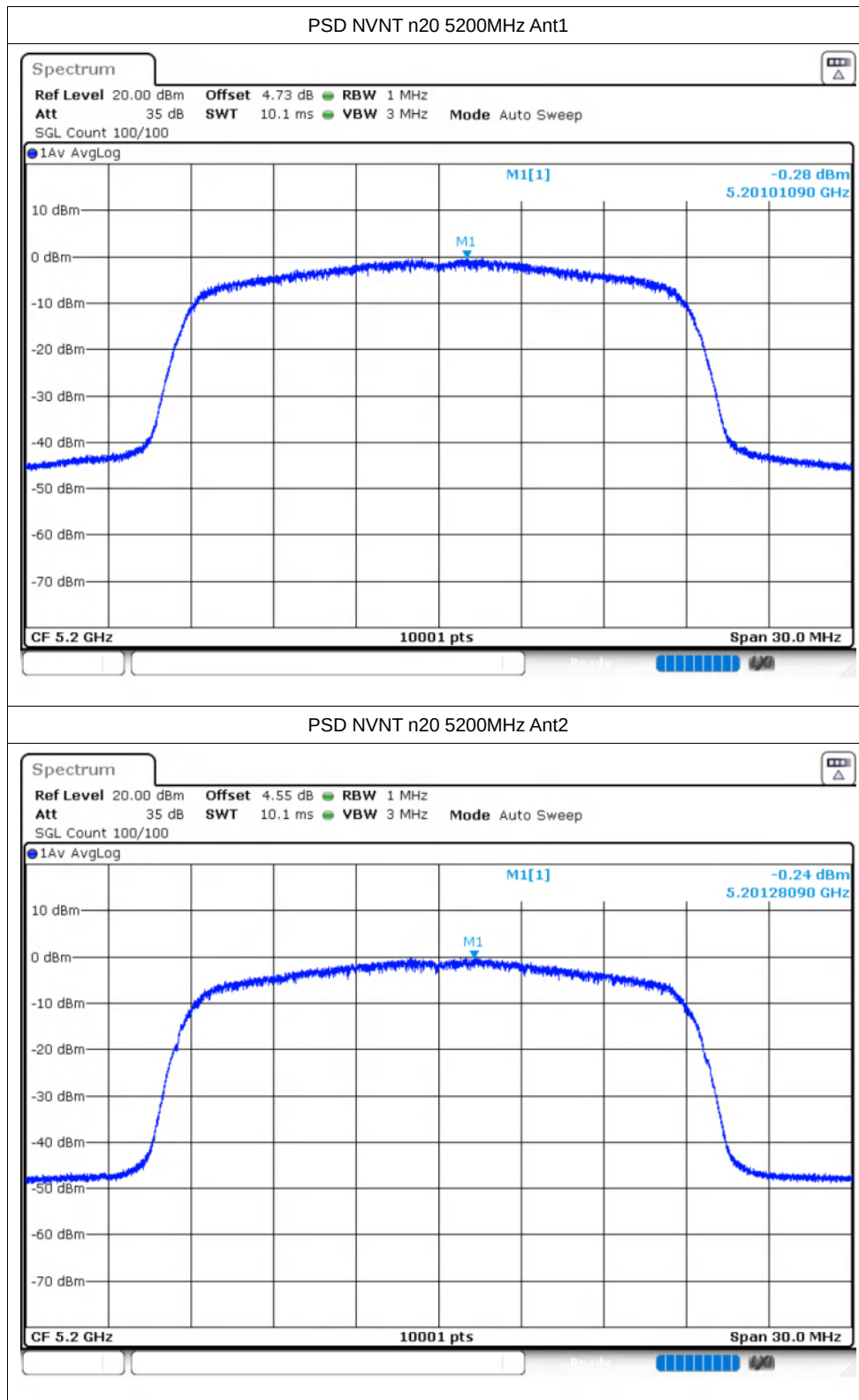
PSD NVNT ax80 5210MHz Ant1

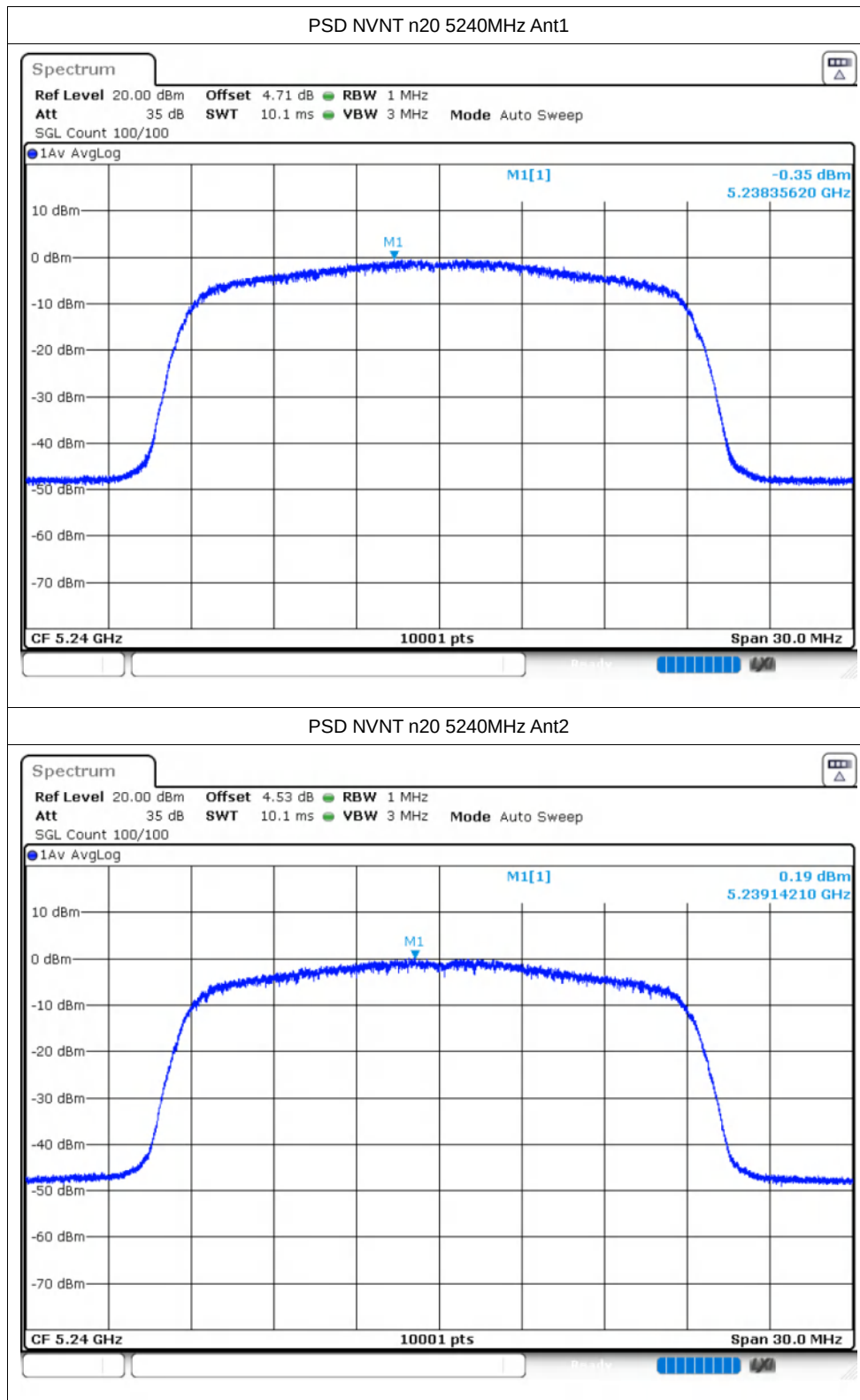


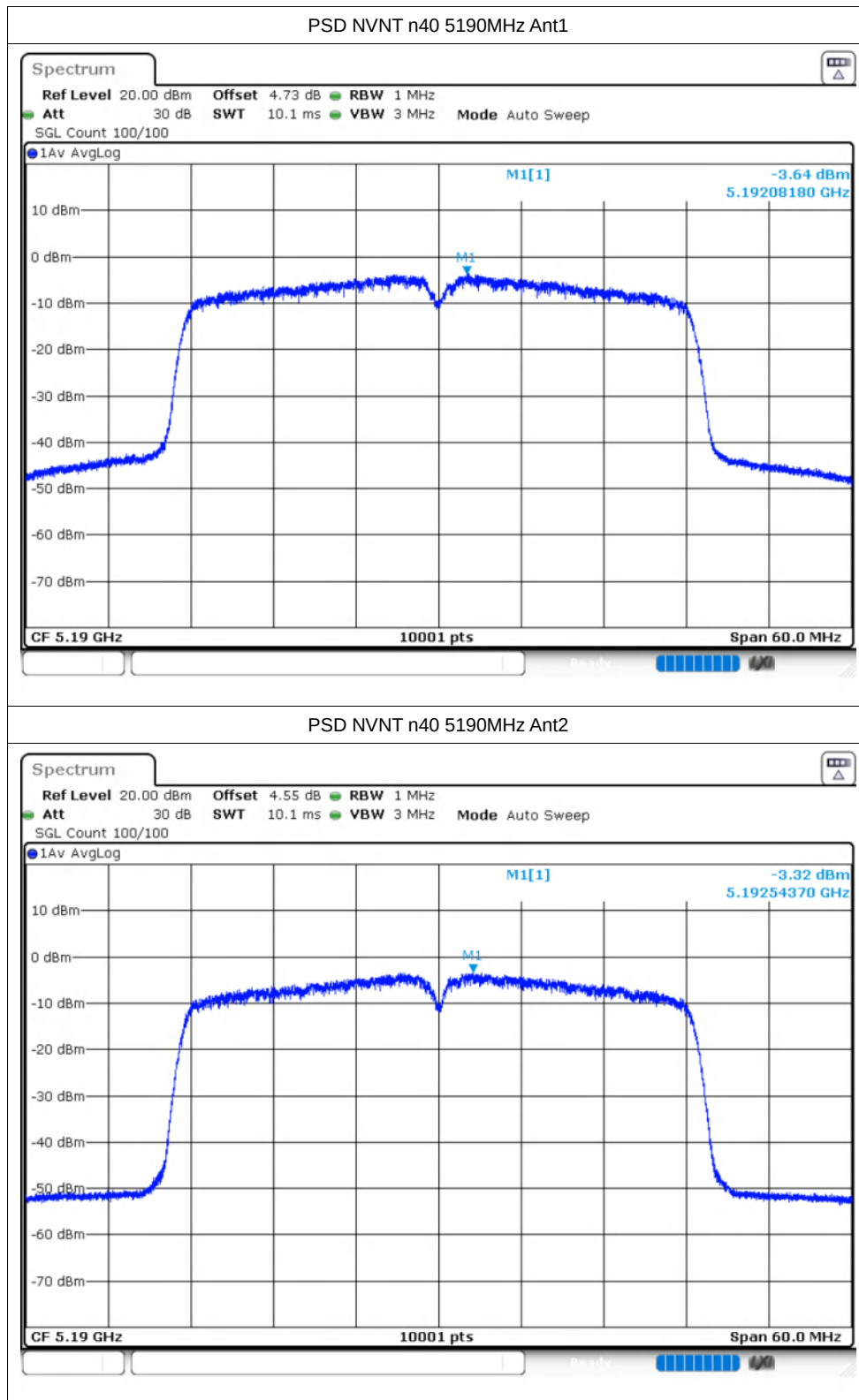
PSD NVNT ax80 5210MHz Ant2

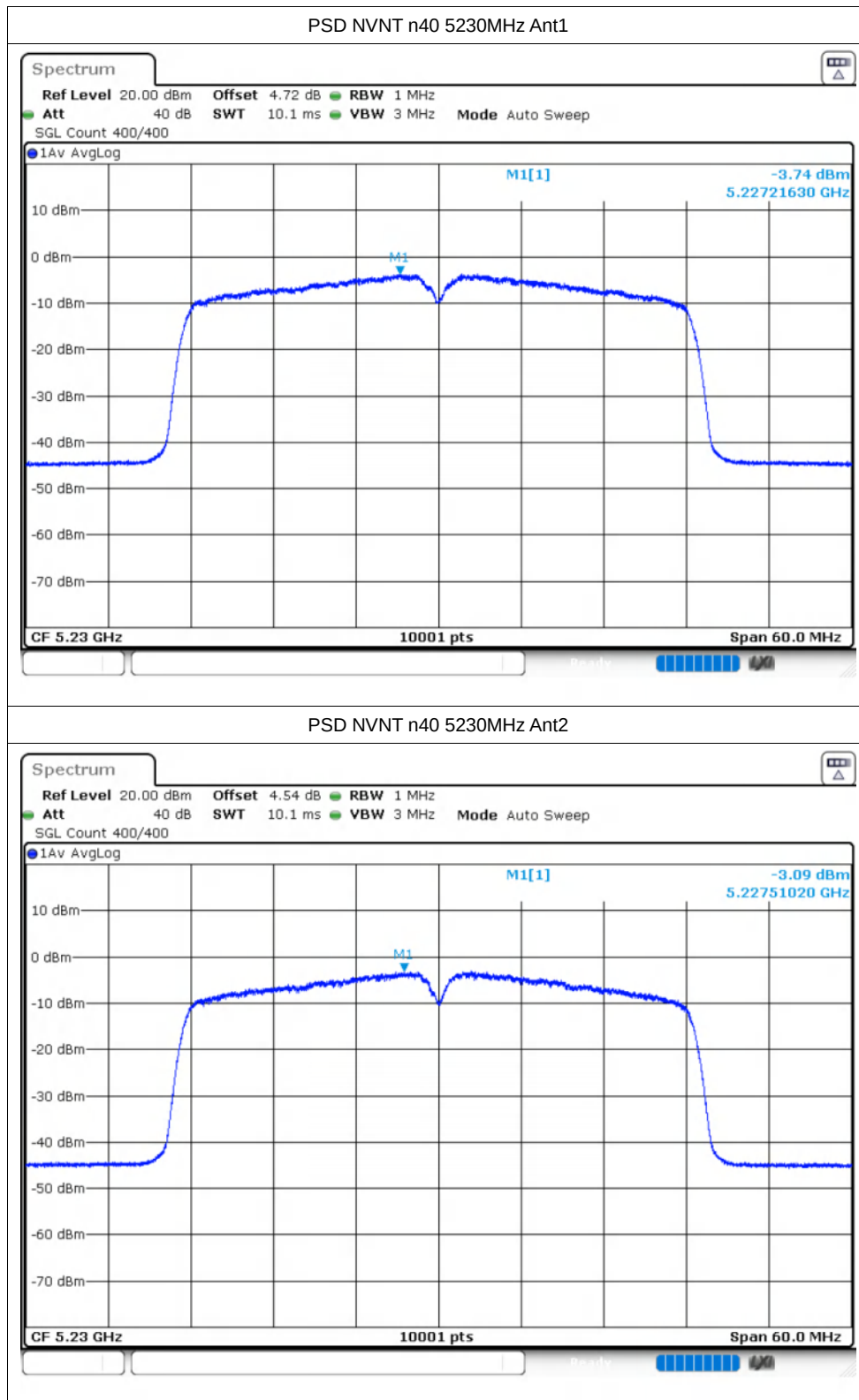










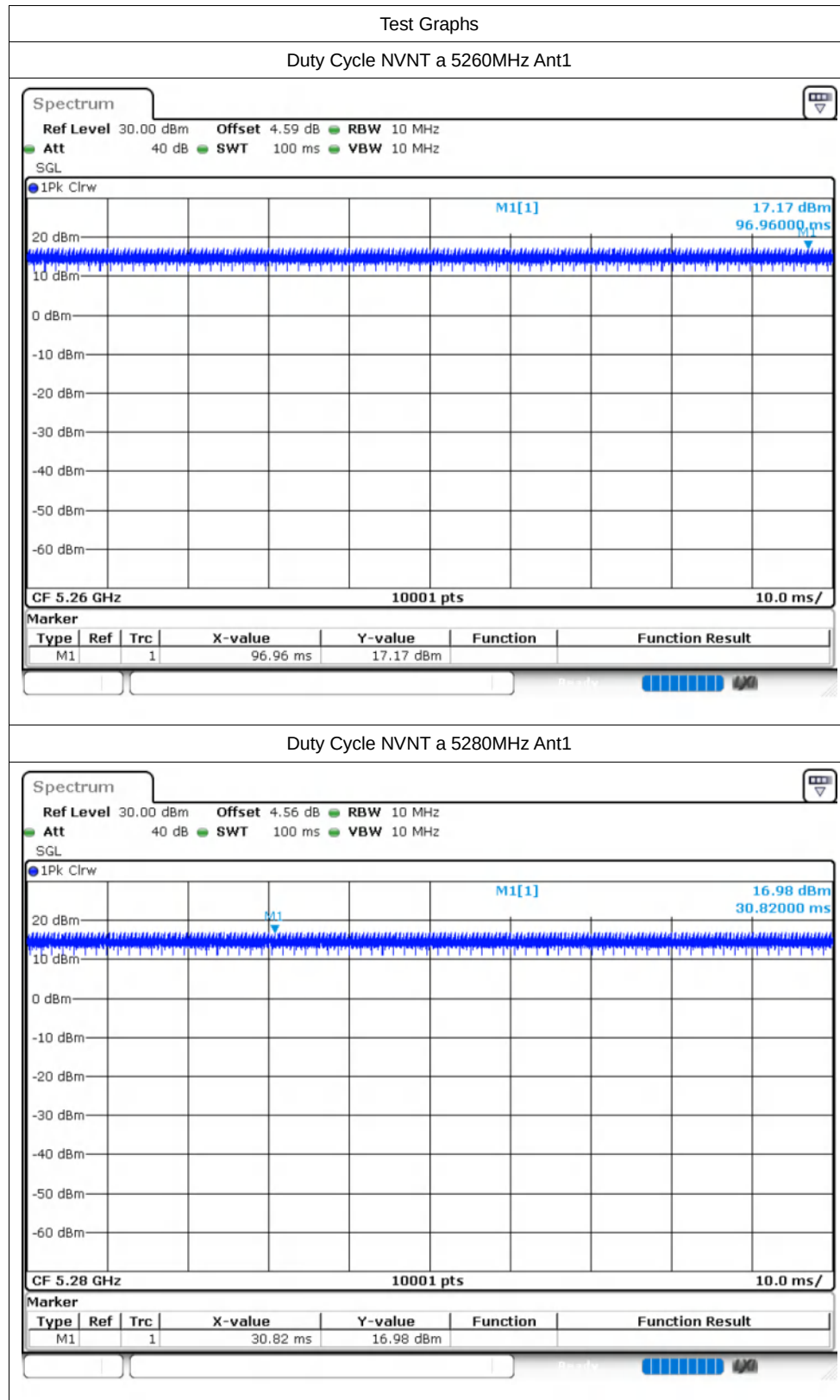


WIFI 5.3G SISO Test Data

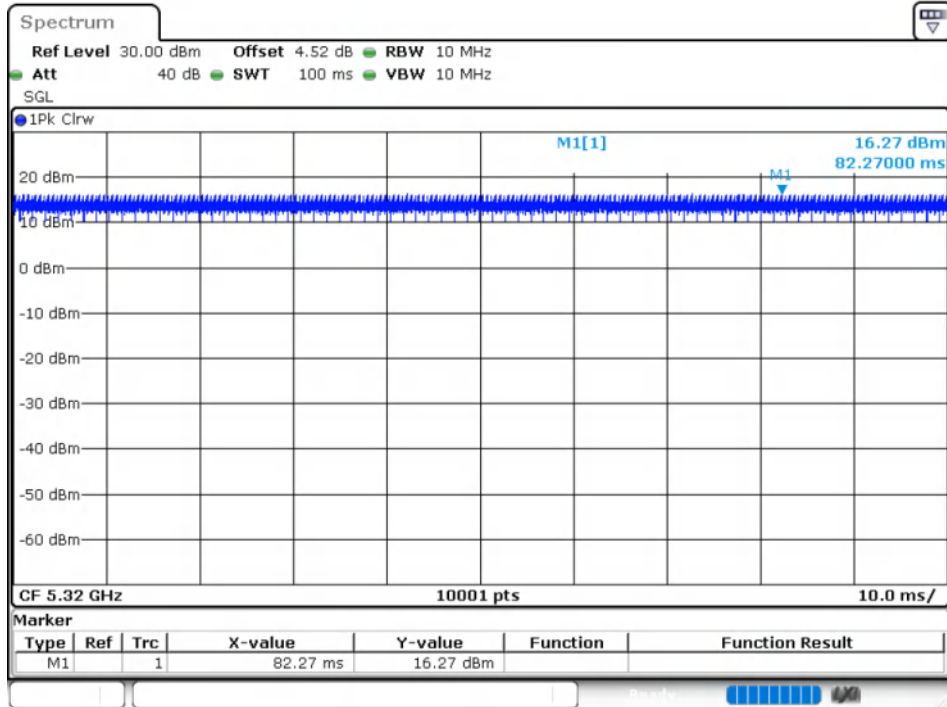
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	100	0	/
NVNT	a	5280	Ant1	100	0	/
NVNT	a	5320	Ant1	100	0	/
NVNT	a	5260	Ant2	100	0	/
NVNT	a	5280	Ant2	100	0	/
NVNT	a	5320	Ant2	100	0	/
NVNT	n20	5260	Ant1	100	0	/
NVNT	n20	5280	Ant1	100	0	/
NVNT	n20	5320	Ant1	100	0	/
NVNT	n20	5260	Ant2	100	0	/
NVNT	n20	5280	Ant2	100	0	/
NVNT	n20	5320	Ant2	100	0	/
NVNT	n40	5270	Ant1	100	0	/
NVNT	n40	5310	Ant1	100	0	/
NVNT	n40	5270	Ant2	100	0	/
NVNT	n40	5310	Ant2	100	0	/
NVNT	ac20	5260	Ant1	100	0	/
NVNT	ac20	5280	Ant1	100	0	/
NVNT	ac20	5320	Ant1	100	0	/
NVNT	ac20	5260	Ant2	100	0	/
NVNT	ac20	5280	Ant2	100	0	/
NVNT	ac20	5320	Ant2	100	0	/
NVNT	ac40	5270	Ant1	100	0	/
NVNT	ac40	5310	Ant1	100	0	/
NVNT	ac40	5270	Ant2	100	0	/
NVNT	ac40	5310	Ant2	100	0	/
NVNT	ac80	5290	Ant1	100	0	/
NVNT	ac80	5290	Ant2	100	0	/
NVNT	ax20	5260	Ant1	100	0	/
NVNT	ax20	5280	Ant1	100	0	/
NVNT	ax20	5320	Ant1	100	0	/
NVNT	ax20	5260	Ant2	100	0	/
NVNT	ax20	5280	Ant2	100	0	/
NVNT	ax20	5320	Ant2	100	0	/
NVNT	ax40	5270	Ant1	100	0	/
NVNT	ax40	5310	Ant1	100	0	/
NVNT	ax40	5270	Ant2	100	0	/
NVNT	ax40	5310	Ant2	100	0	/

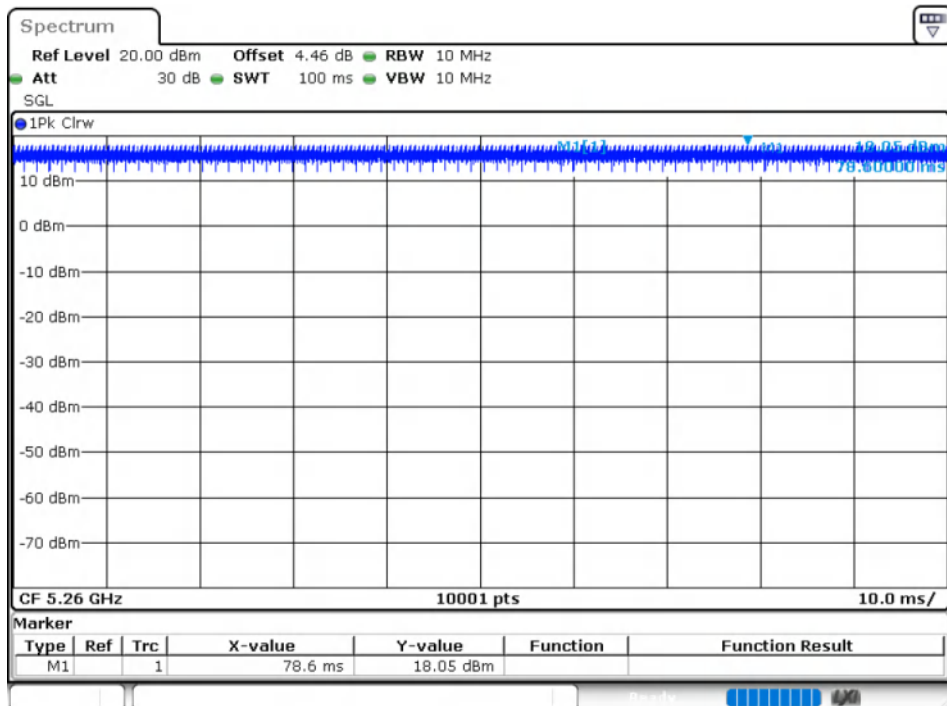
NVNT	ax80	5290	Ant1	100	0	/
NVNT	ax80	5290	Ant2	100	0	/

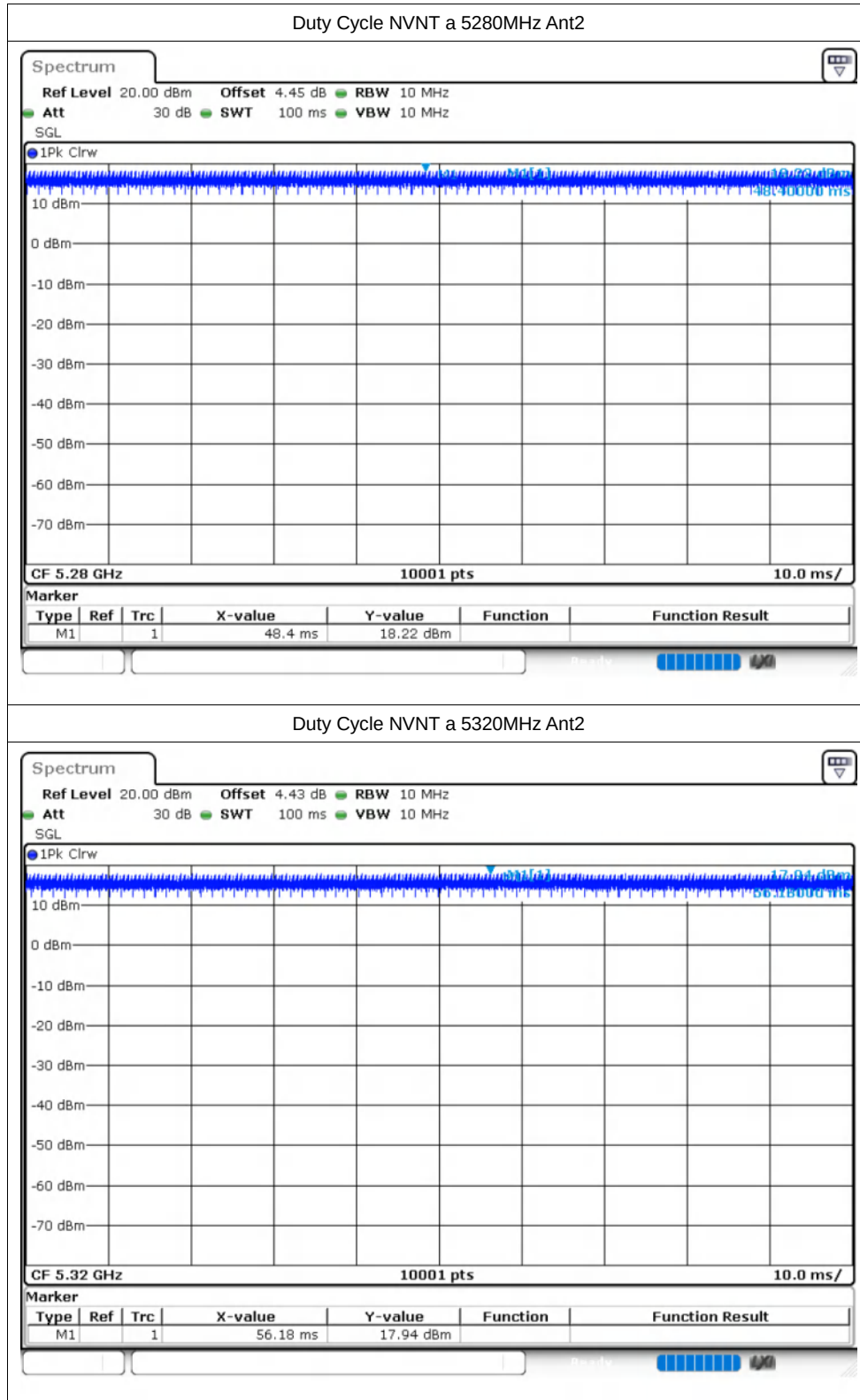


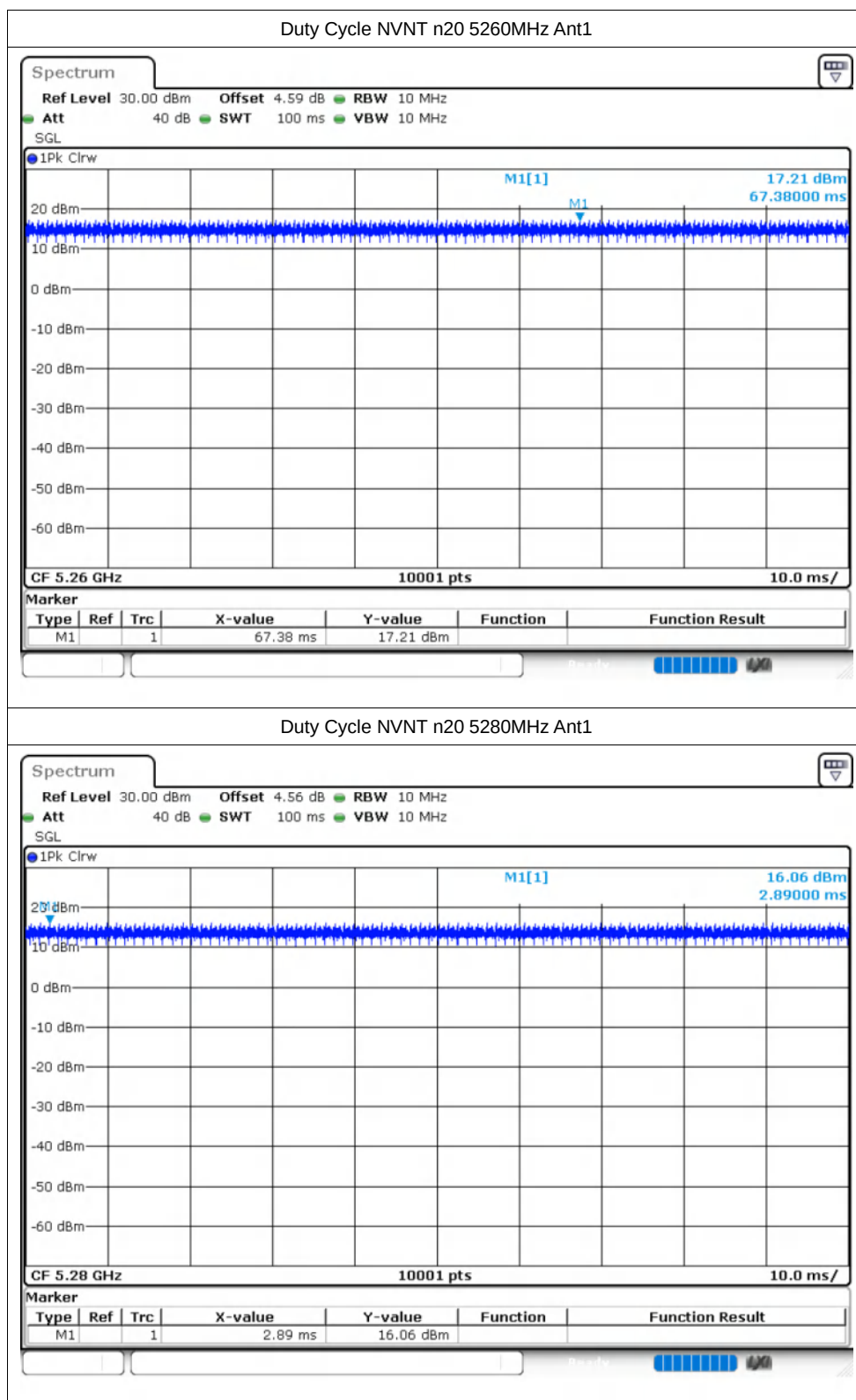
Duty Cycle NVNT a 5320MHz Ant1



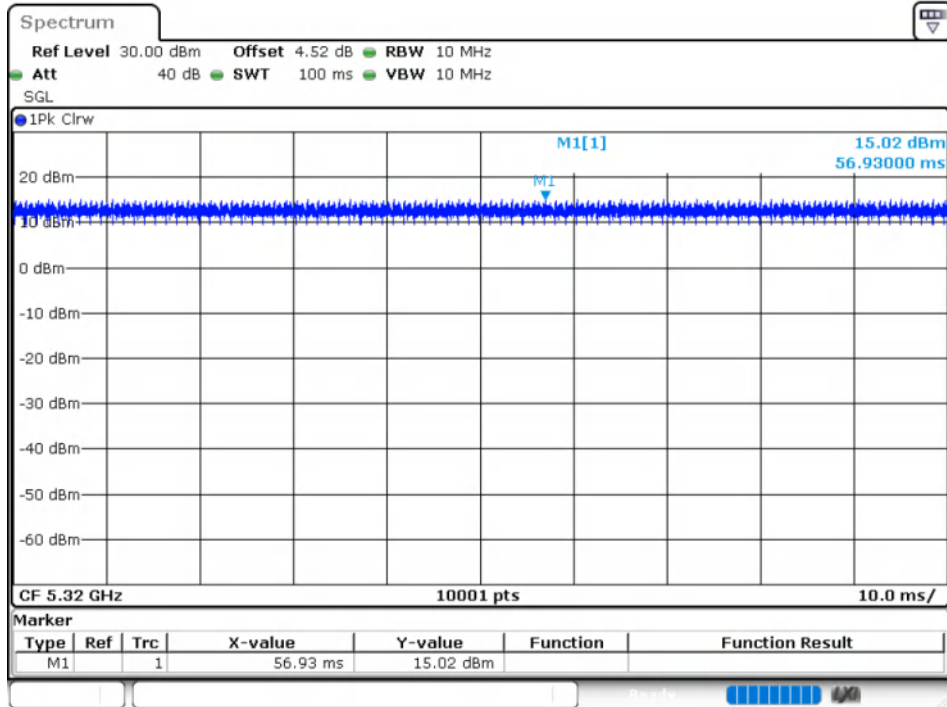
Duty Cycle NVNT a 5260MHz Ant2



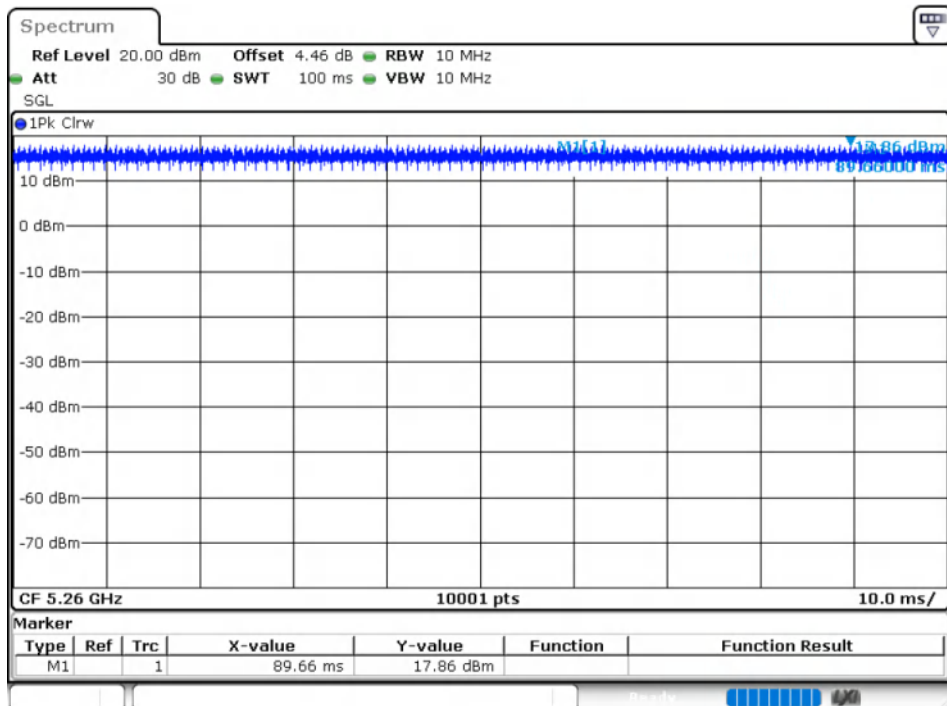


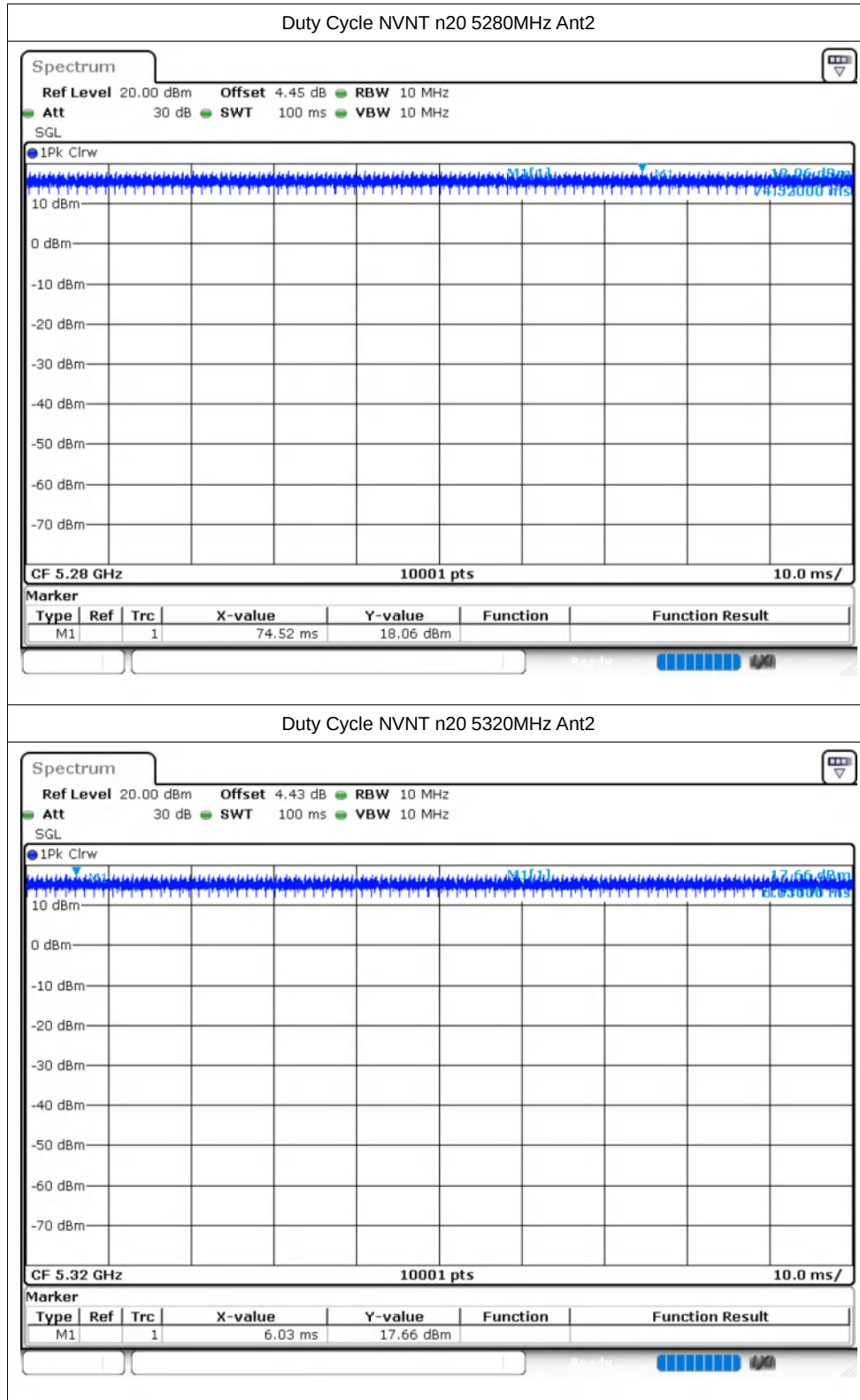


Duty Cycle NVNT n20 5320MHz Ant1

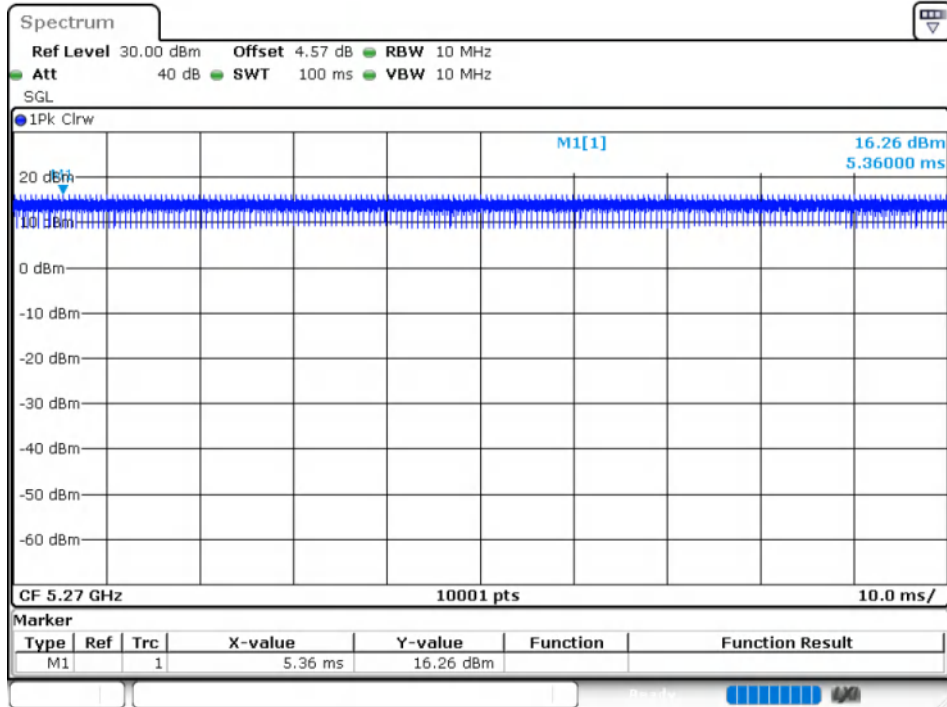


Duty Cycle NVNT n20 5260MHz Ant2

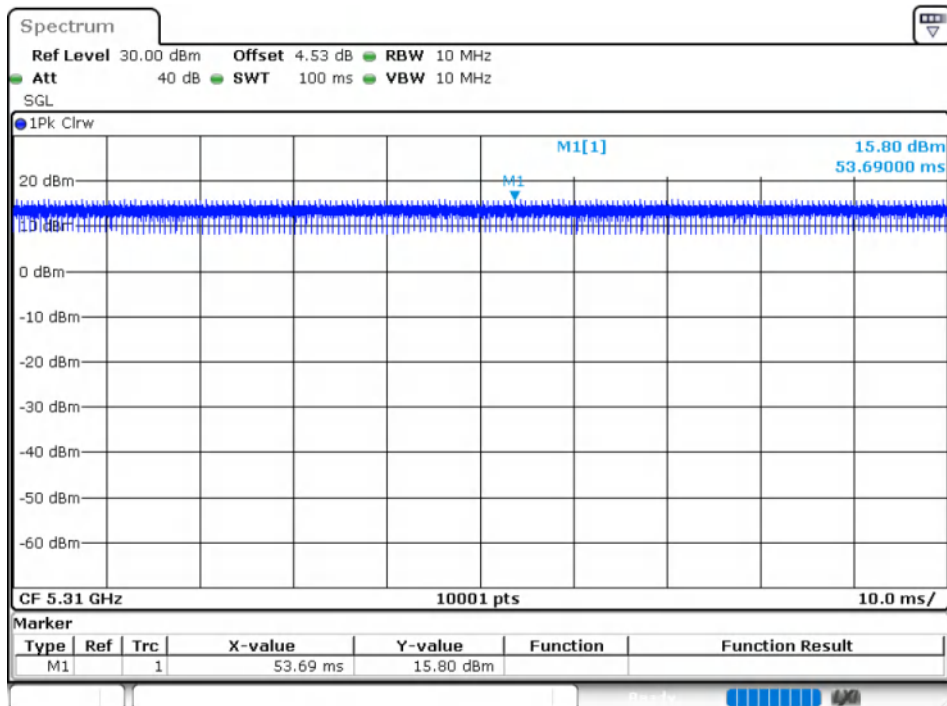


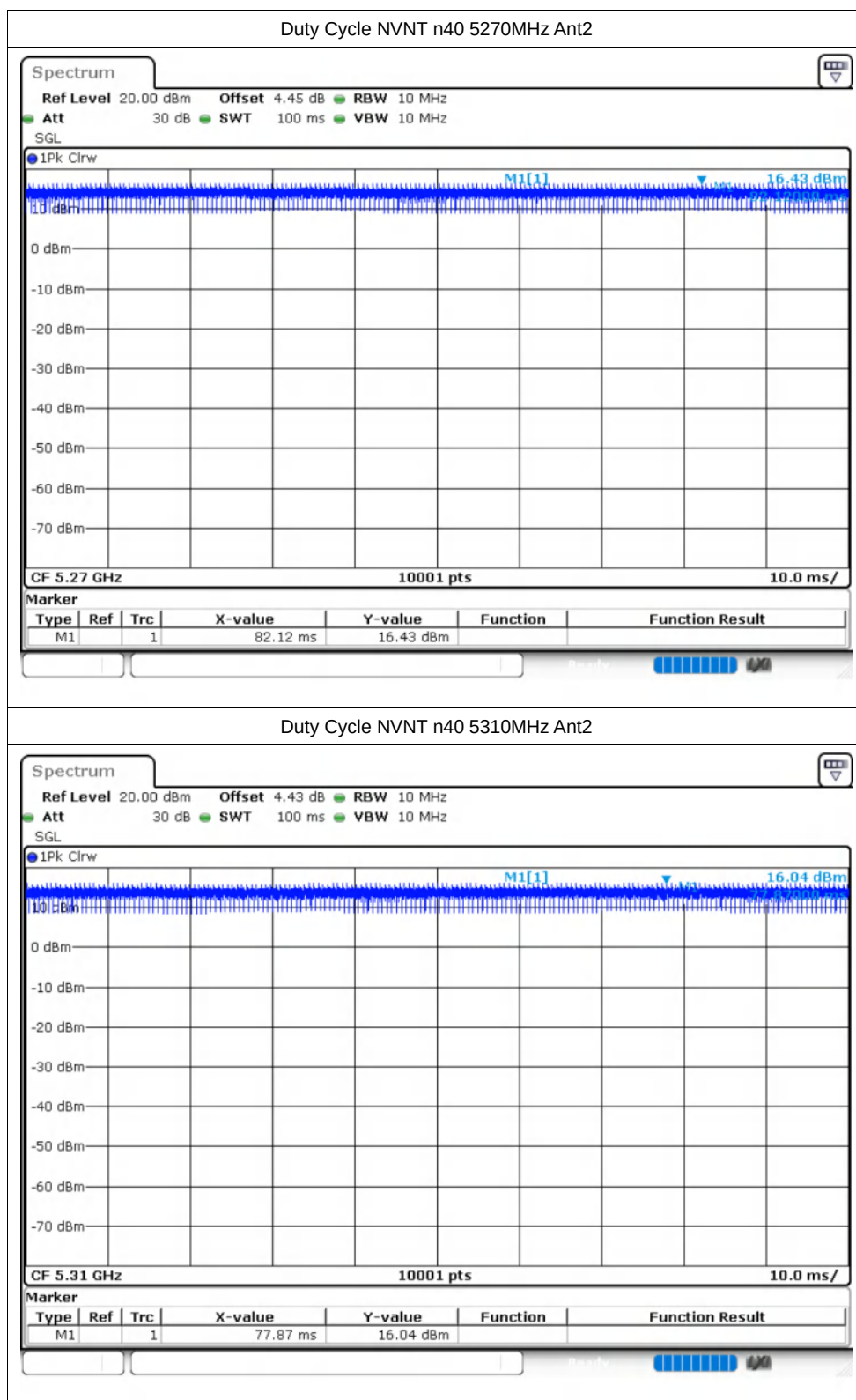


Duty Cycle NVNT n40 5270MHz Ant1

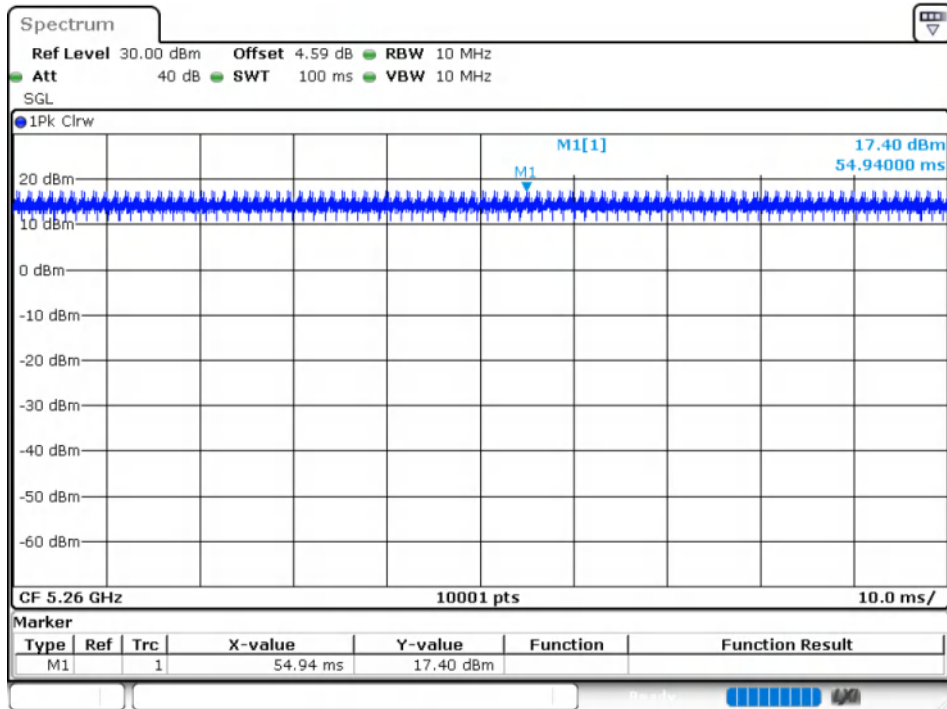


Duty Cycle NVNT n40 5310MHz Ant1

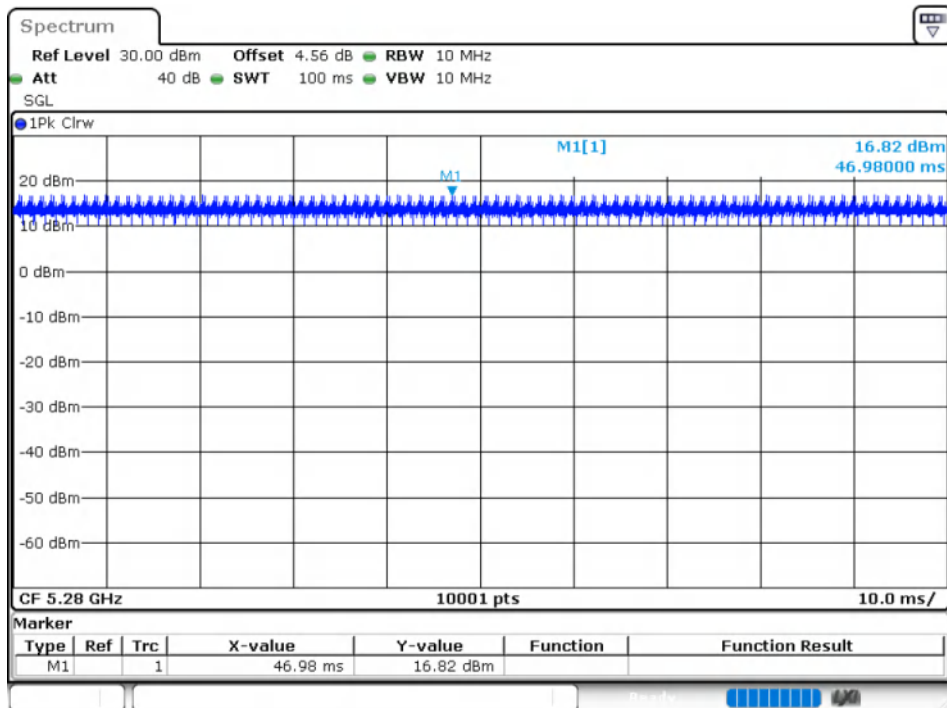




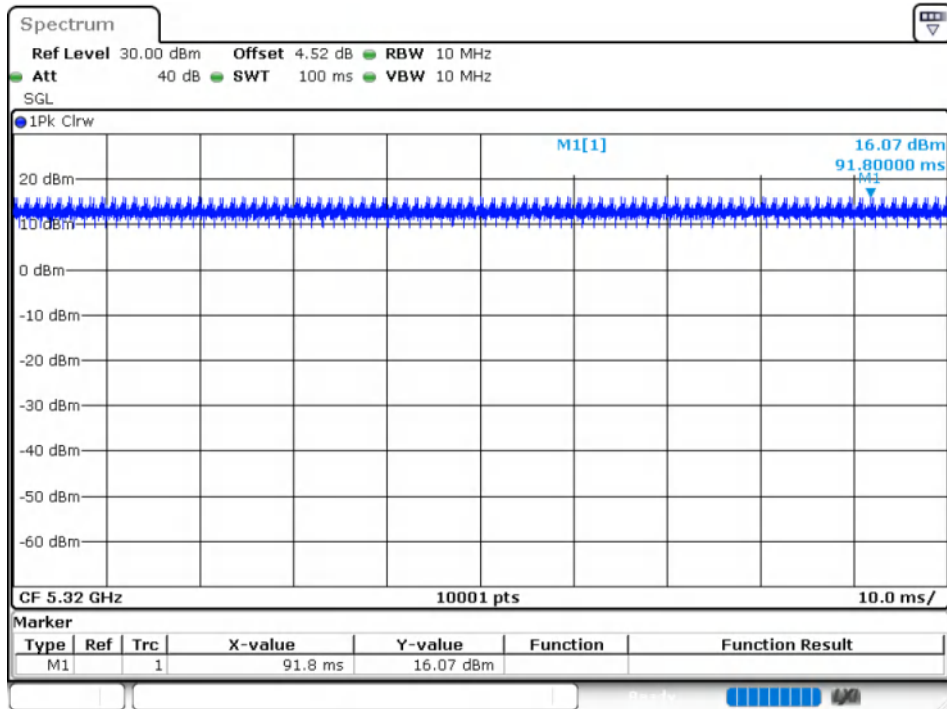
Duty Cycle NVNT ac20 5260MHz Ant1



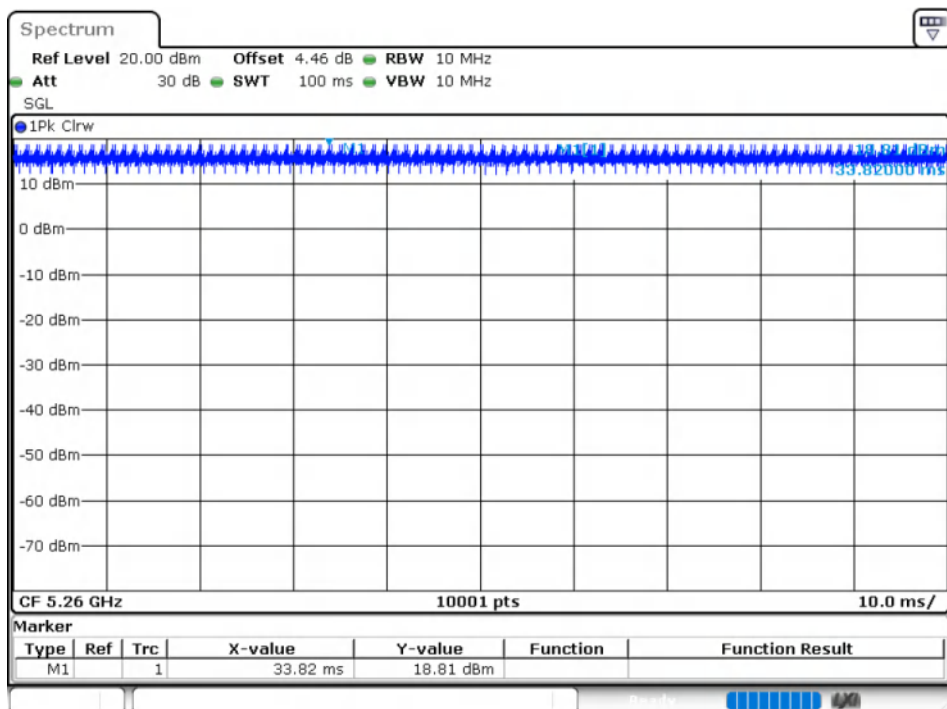
Duty Cycle NVNT ac20 5280MHz Ant1

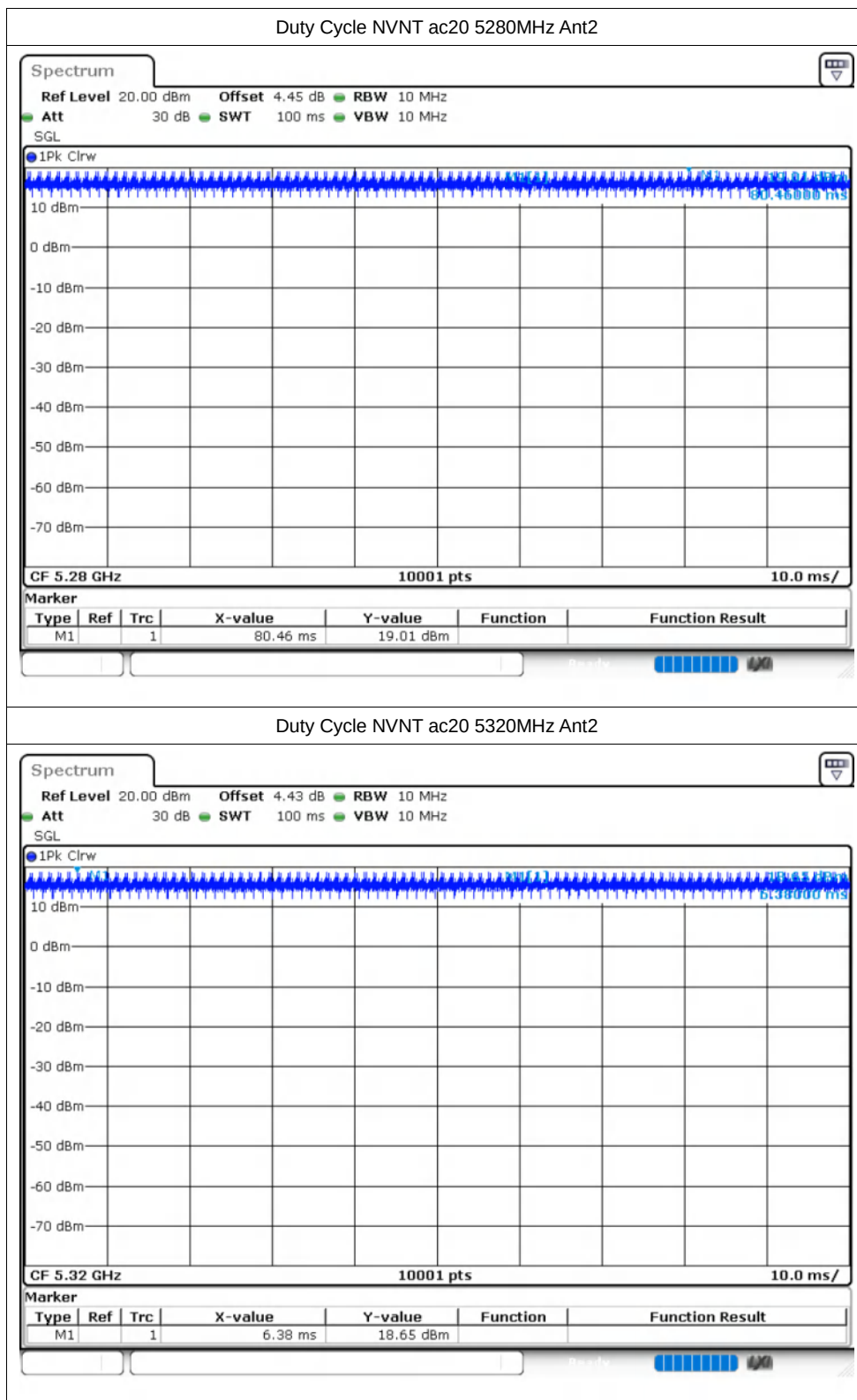


Duty Cycle NVNT ac20 5320MHz Ant1

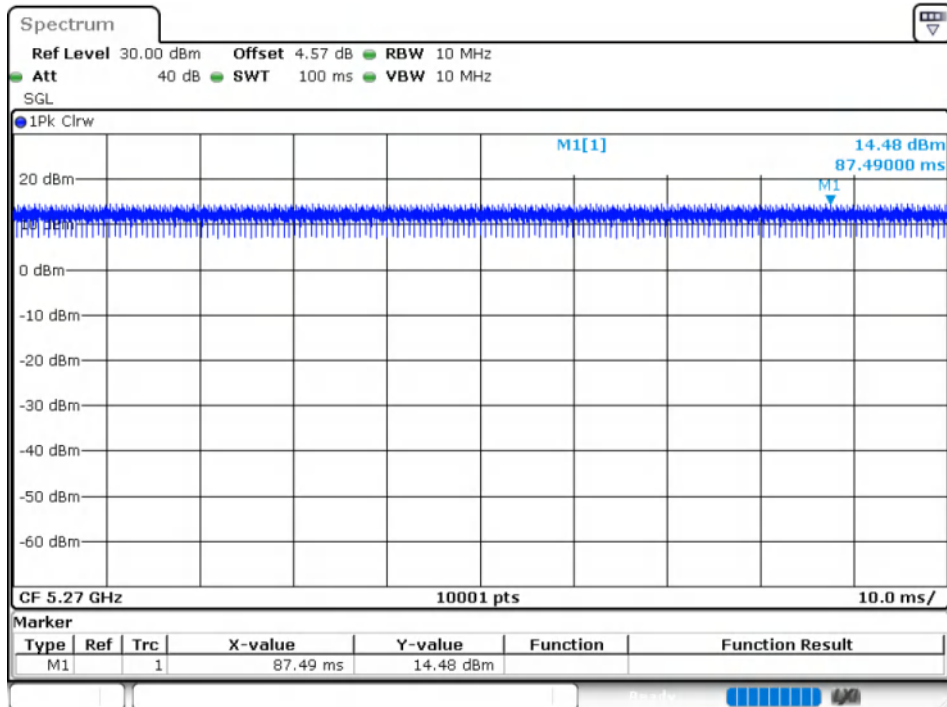


Duty Cycle NVNT ac20 5260MHz Ant2

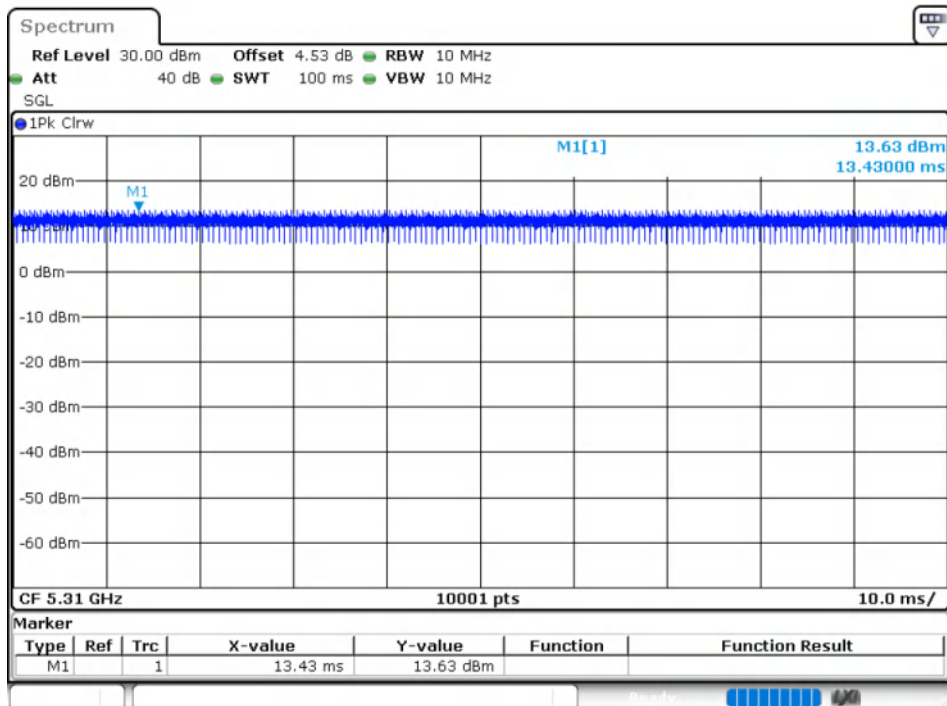




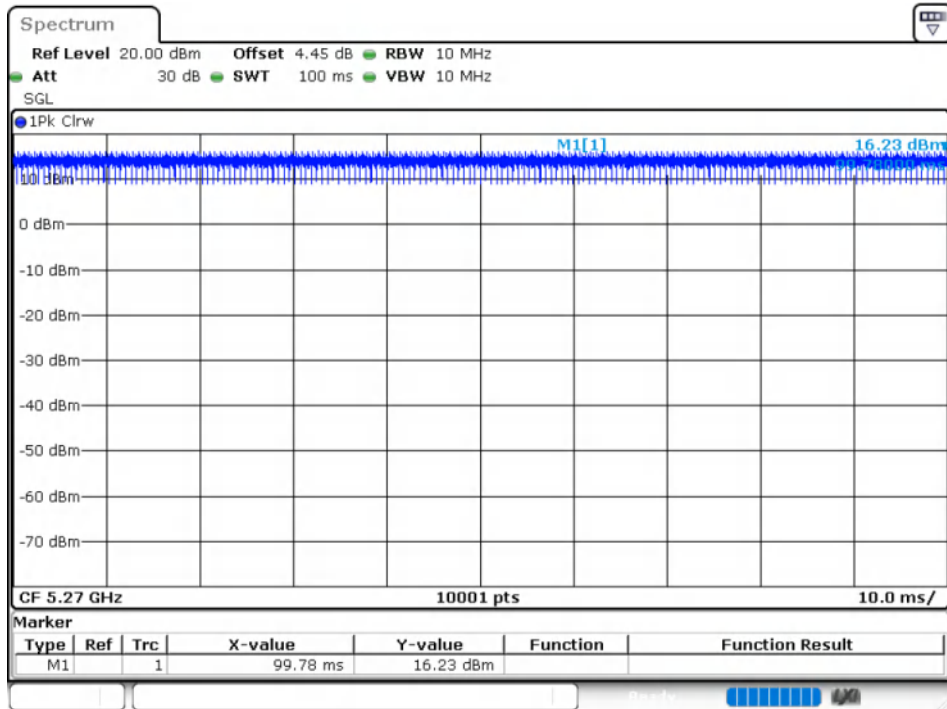
Duty Cycle NVNT ac40 5270MHz Ant1



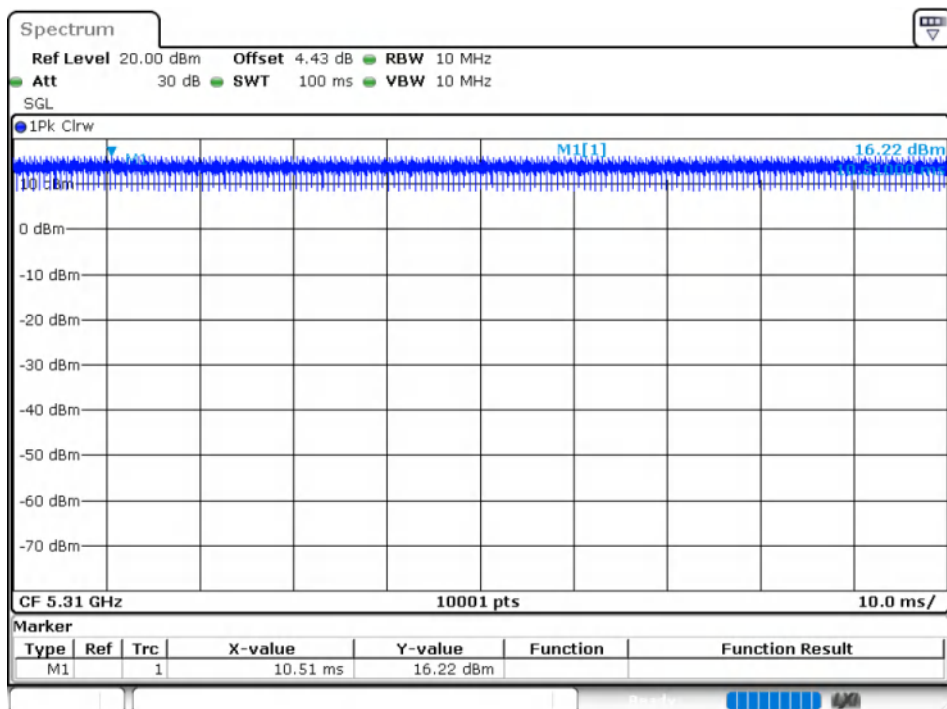
Duty Cycle NVNT ac40 5310MHz Ant1



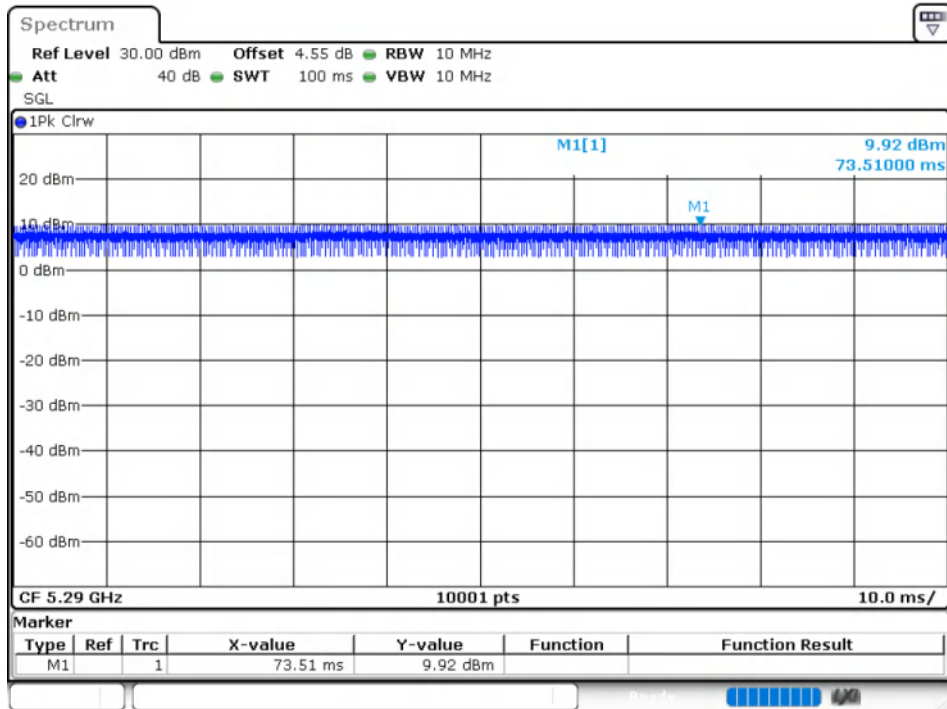
Duty Cycle NVNT ac40 5270MHz Ant2



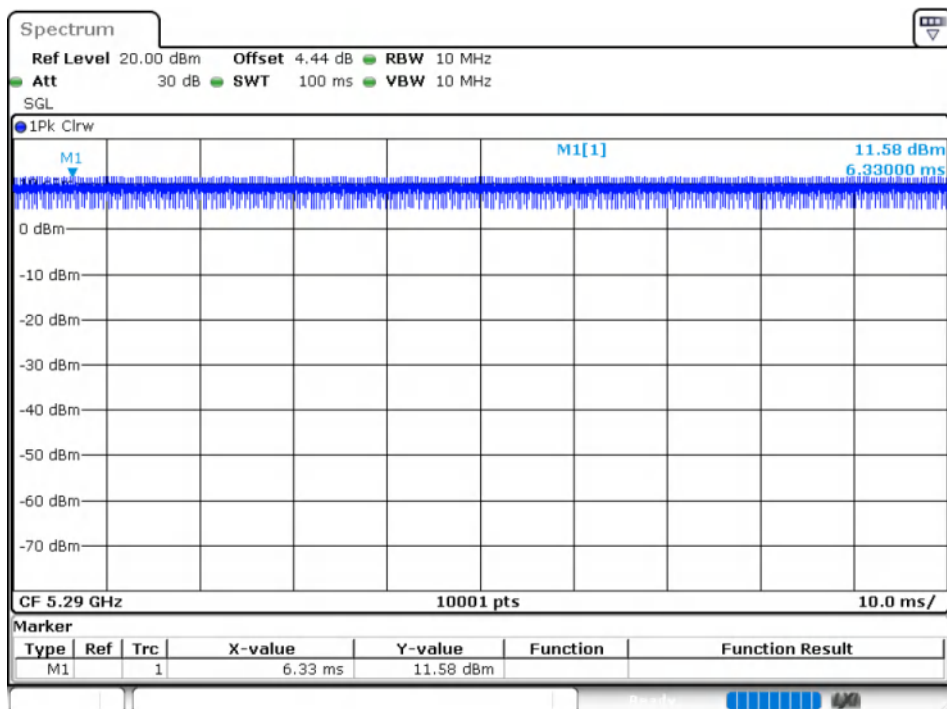
Duty Cycle NVNT ac40 5310MHz Ant2

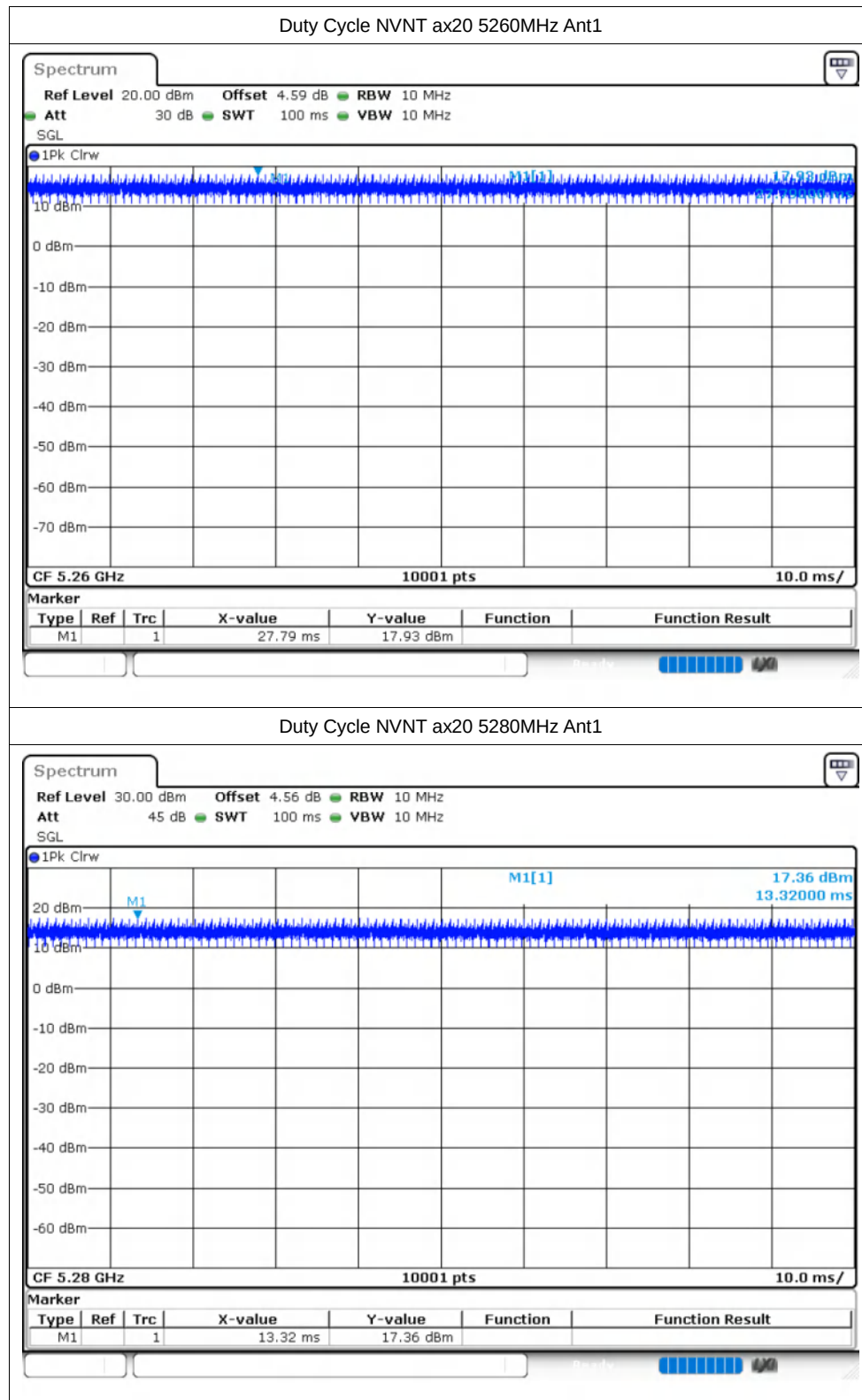


Duty Cycle NVNT ac80 5290MHz Ant1

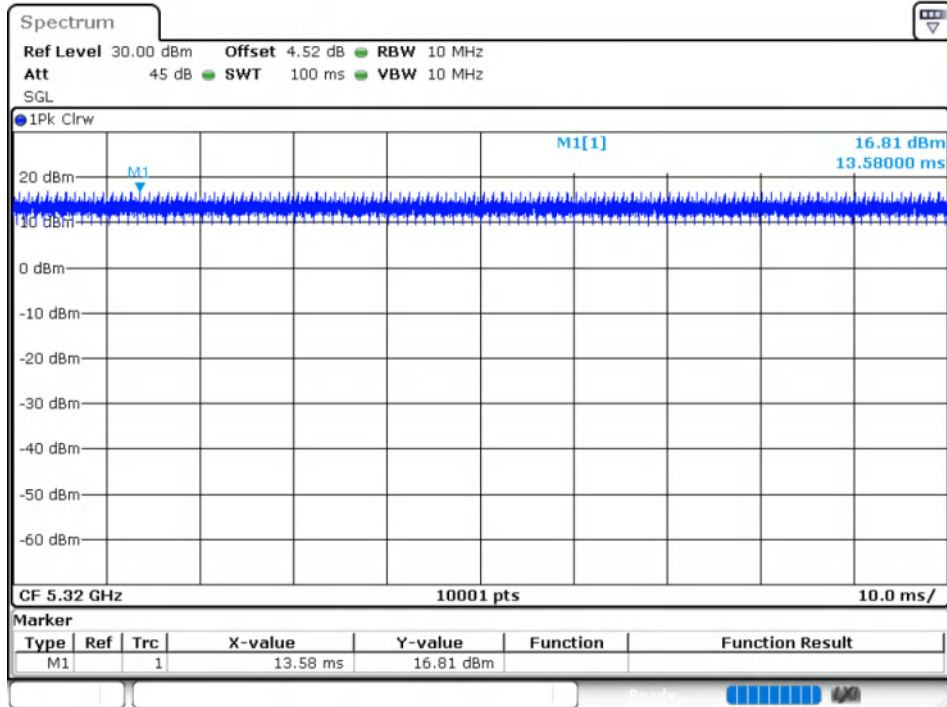


Duty Cycle NVNT ac80 5290MHz Ant2

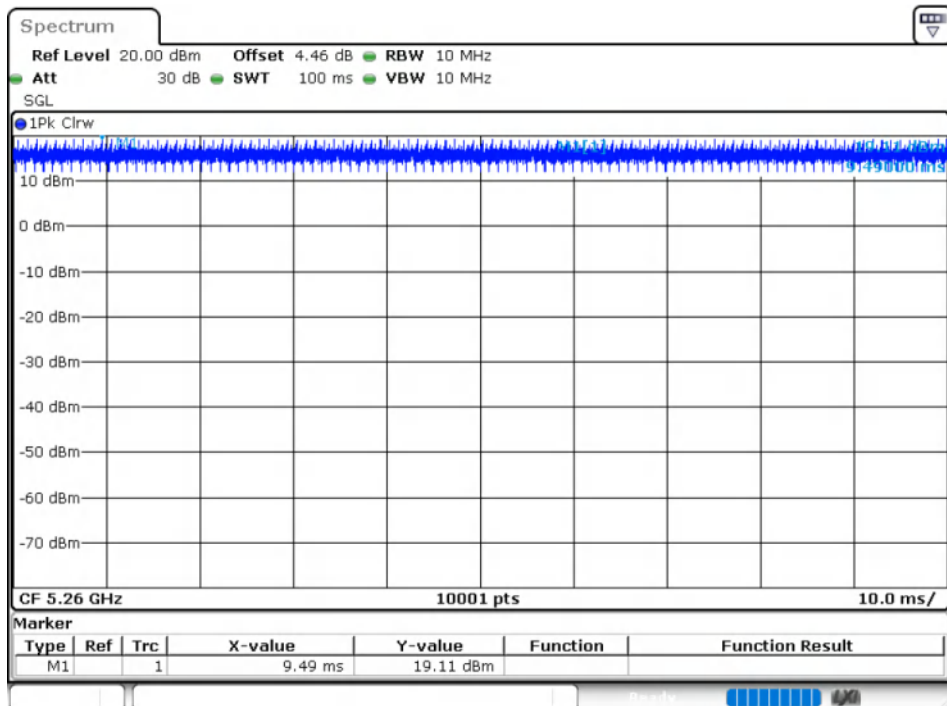




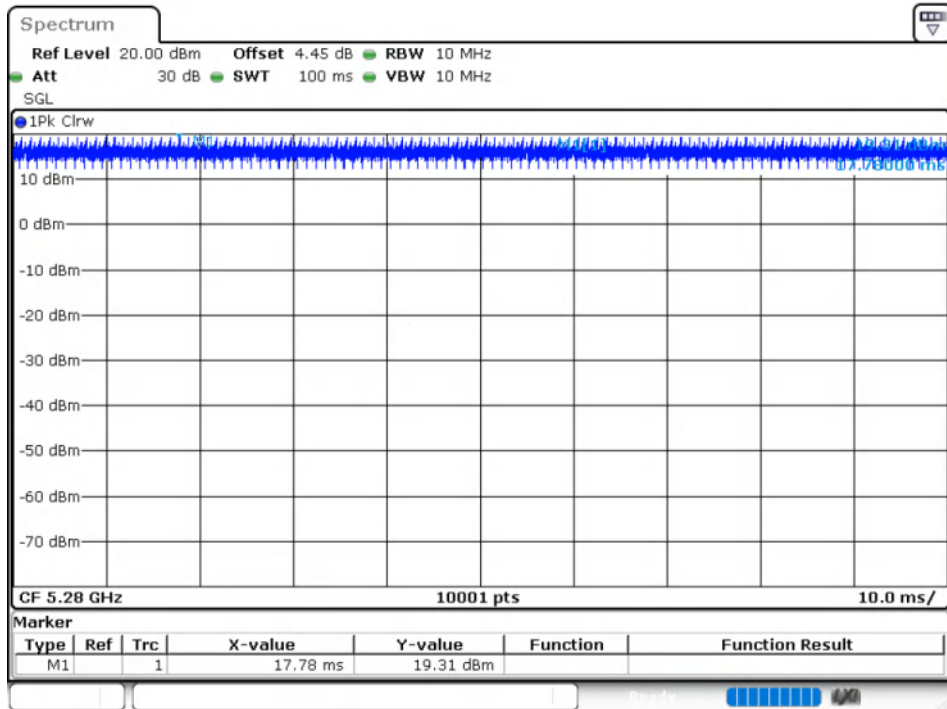
Duty Cycle NVNT ax20 5320MHz Ant1



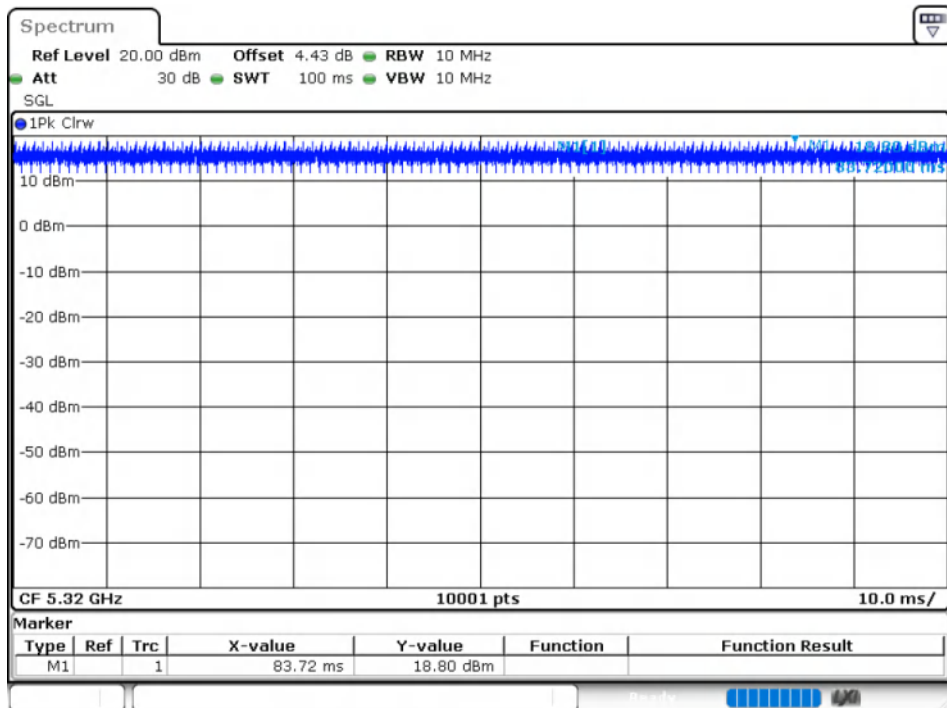
Duty Cycle NVNT ax20 5260MHz Ant2

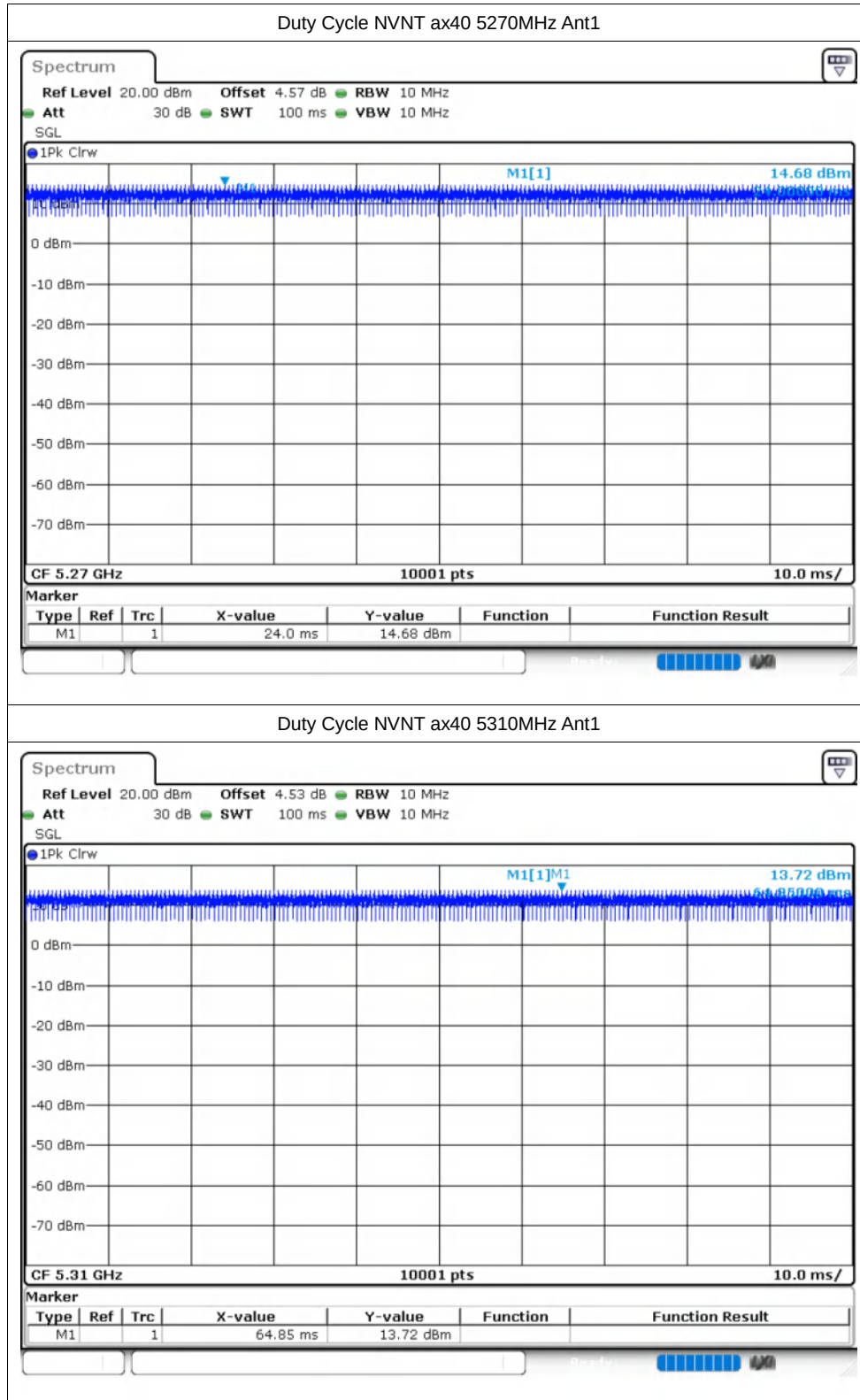


Duty Cycle NVNT ax20 5280MHz Ant2

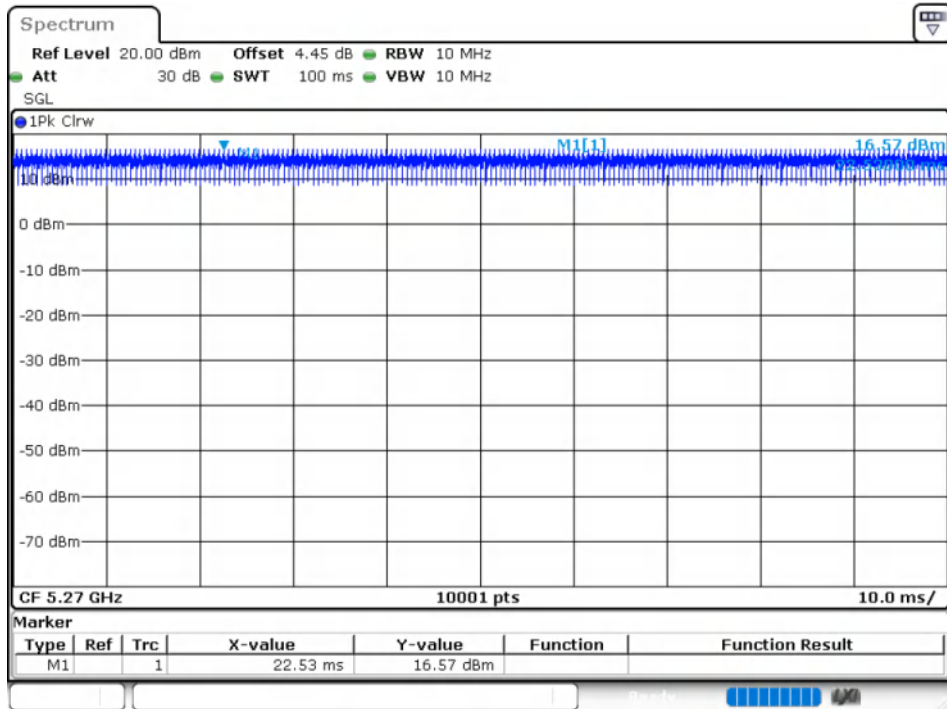


Duty Cycle NVNT ax20 5320MHz Ant2

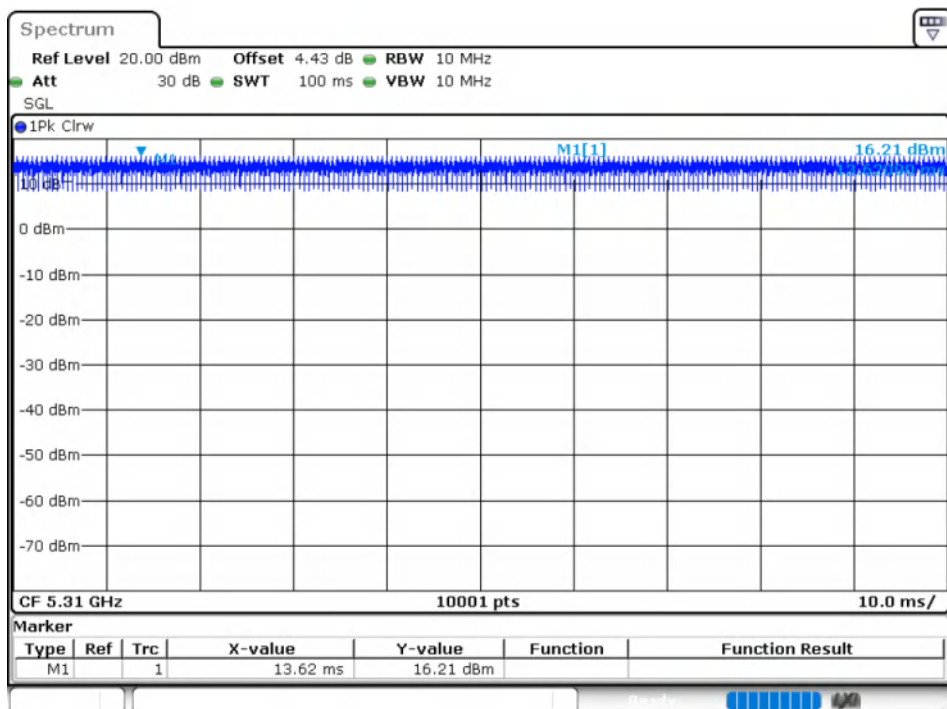


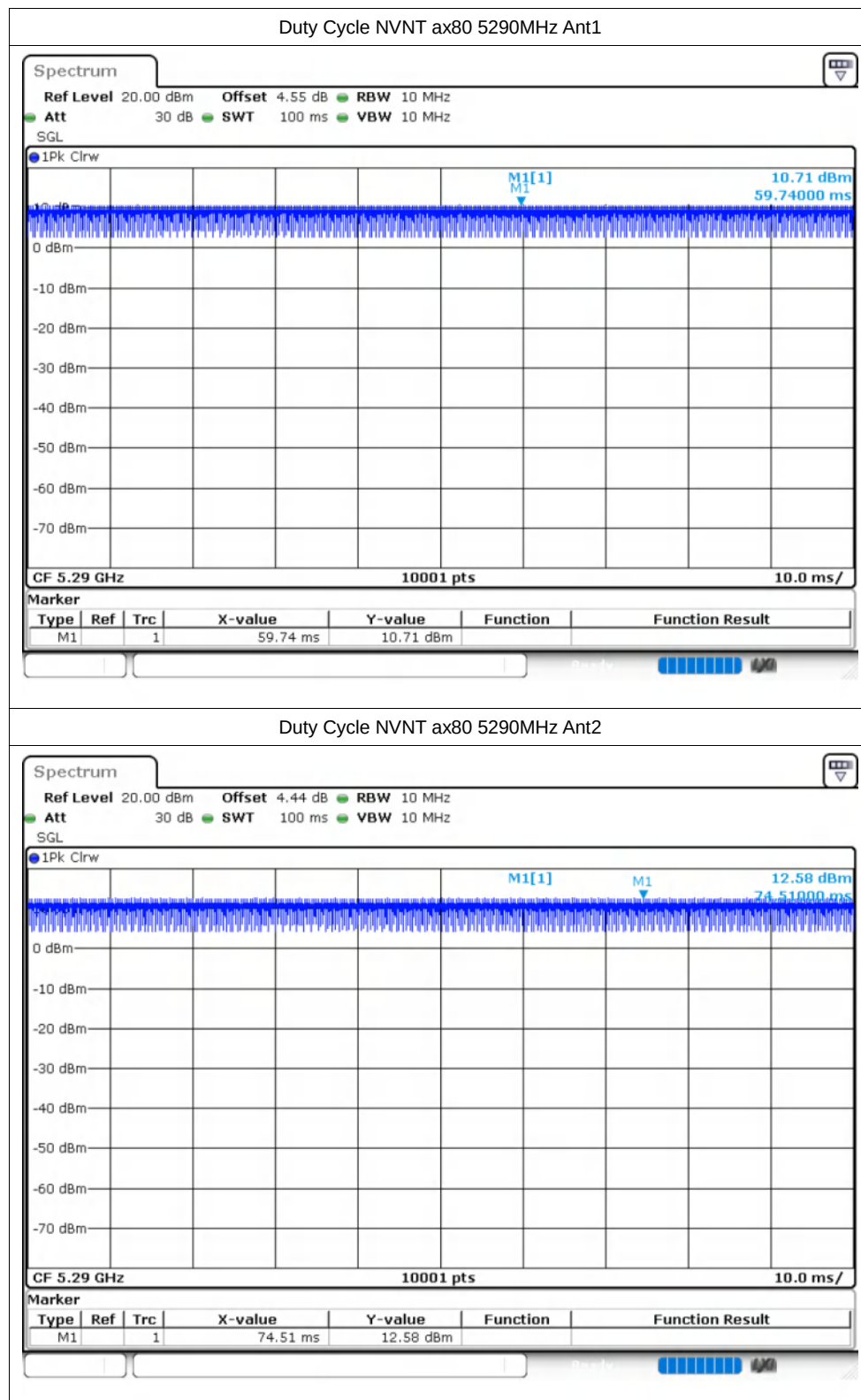


Duty Cycle NVNT ax40 5270MHz Ant2



Duty Cycle NVNT ax40 5310MHz Ant2





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	10.56	24	Pass
NVNT	a	5280	Ant1	10.49	24	Pass
NVNT	a	5320	Ant1	10.16	24	Pass
NVNT	a	5260	Ant2	12.2	24	Pass
NVNT	a	5280	Ant2	12.32	24	Pass
NVNT	a	5320	Ant2	12.16	24	Pass
NVNT	n20	5260	Ant1	10.46	24	Pass
NVNT	n20	5280	Ant1	9.42	24	Pass
NVNT	n20	5320	Ant1	8.98	24	Pass
NVNT	n20	5260	Ant2	12.03	24	Pass
NVNT	n20	5280	Ant2	12.14	24	Pass
NVNT	n20	5320	Ant2	12.09	24	Pass
NVNT	n40	5270	Ant1	11.52	24	Pass
NVNT	n40	5310	Ant1	11.15	24	Pass
NVNT	n40	5270	Ant2	12.38	24	Pass
NVNT	n40	5310	Ant2	12.36	24	Pass
NVNT	ac20	5260	Ant1	9.9	24	Pass
NVNT	ac20	5280	Ant1	9.51	24	Pass
NVNT	ac20	5320	Ant1	9.02	24	Pass
NVNT	ac20	5260	Ant2	12.05	24	Pass
NVNT	ac20	5280	Ant2	12.14	24	Pass
NVNT	ac20	5320	Ant2	12.13	24	Pass
NVNT	ac40	5270	Ant1	9.94	24	Pass
NVNT	ac40	5310	Ant1	9.61	24	Pass
NVNT	ac40	5270	Ant2	12.34	24	Pass
NVNT	ac40	5310	Ant2	12.4	24	Pass
NVNT	ac80	5290	Ant1	9.57	24	Pass
NVNT	ac80	5290	Ant2	12.29	24	Pass
NVNT	ax20	5260	Ant1	10.06	24	Pass
NVNT	ax20	5280	Ant1	9.76	24	Pass
NVNT	ax20	5320	Ant1	9.4	24	Pass
NVNT	ax20	5260	Ant2	12.09	24	Pass
NVNT	ax20	5280	Ant2	12.13	24	Pass
NVNT	ax20	5320	Ant2	12.11	24	Pass
NVNT	ax40	5270	Ant1	10.15	24	Pass
NVNT	ax40	5310	Ant1	9.75	24	Pass
NVNT	ax40	5270	Ant2	12.43	24	Pass
NVNT	ax40	5310	Ant2	12.43	24	Pass
NVNT	ax80	5290	Ant1	9.93	24	Pass
NVNT	ax80	5290	Ant2	12.46	24	Pass

Note:

1. The conducted average power contains duty cycle factor.
2. The limit is based on the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.