

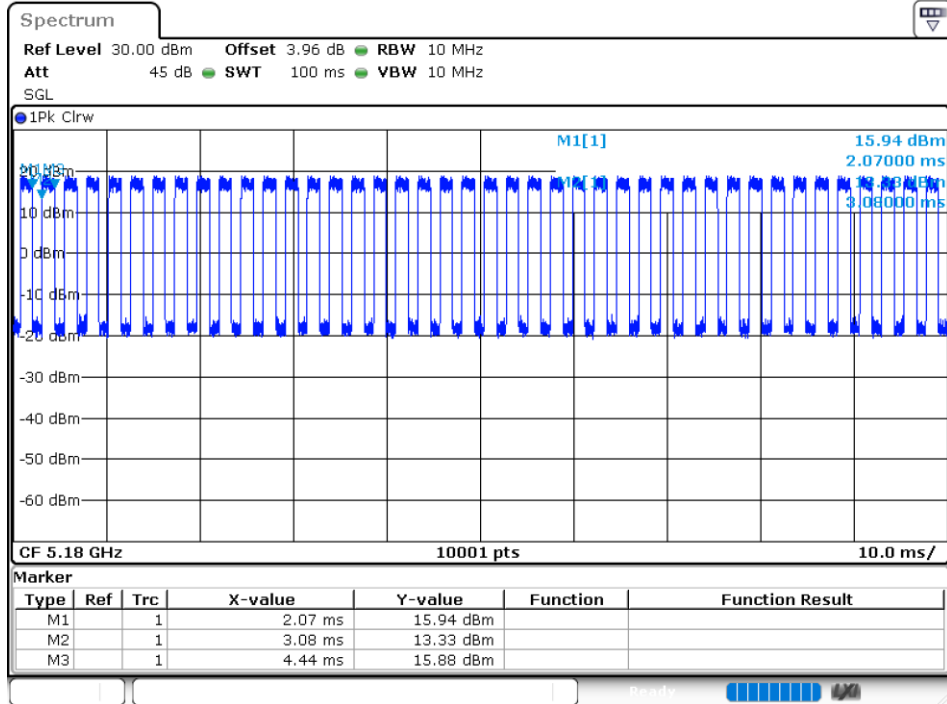
5.2G WIFI

Duty Cycle

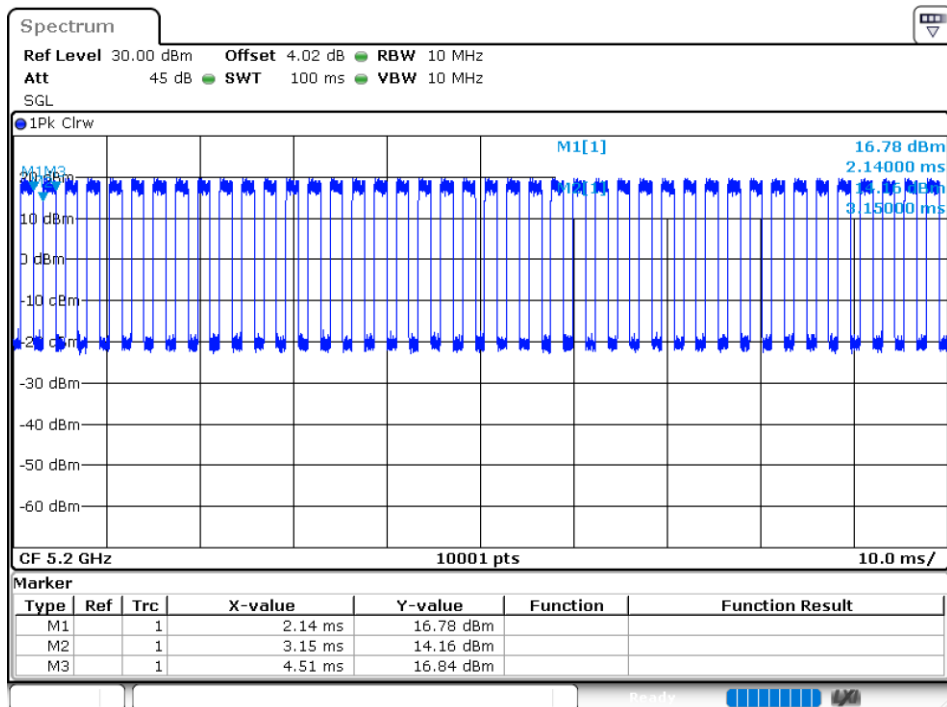
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	57.53	2.4	0.74
NVNT	a	5200	Ant1	57.53	2.4	0.74
NVNT	a	5240	Ant1	57.94	2.37	0.74
NVNT	n20	5180	Ant1	56.25	2.5	0.79
NVNT	n20	5200	Ant1	56.23	2.5	0.79
NVNT	n20	5240	Ant1	56.25	2.5	0.78
NVNT	n40	5190	Ant1	39.15	4.07	1.59
NVNT	n40	5230	Ant1	39.15	4.07	1.59
NVNT	ac20	5180	Ant1	56.37	2.49	0.78
NVNT	ac20	5200	Ant1	56.24	2.5	0.79
NVNT	ac20	5240	Ant1	56.25	2.5	0.79
NVNT	ac40	5190	Ant1	39.37	4.05	1.56
NVNT	ac40	5230	Ant1	39.37	4.05	1.56
NVNT	ac80	5210	Ant1	24.78	6.06	3.23

Test Graphs

Duty Cycle NVNT a 5180MHz Ant1



Duty Cycle NVNT a 5200MHz Ant1

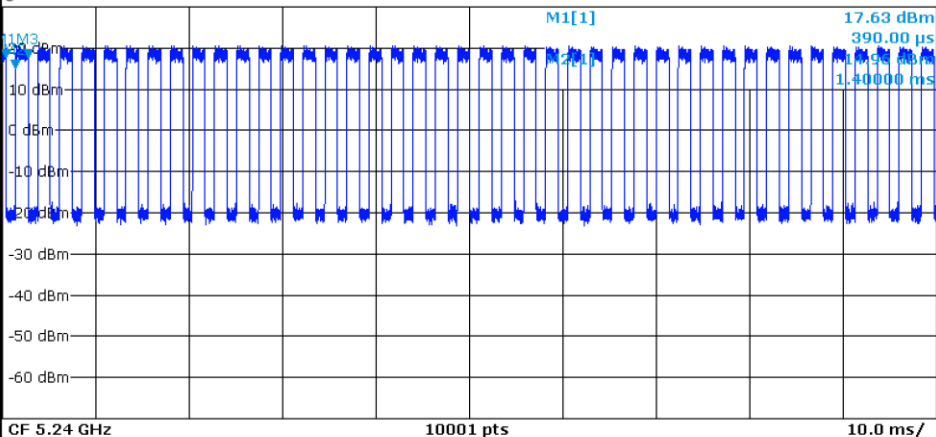


Duty Cycle NVNT a 5240MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 4.04 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw



Marker

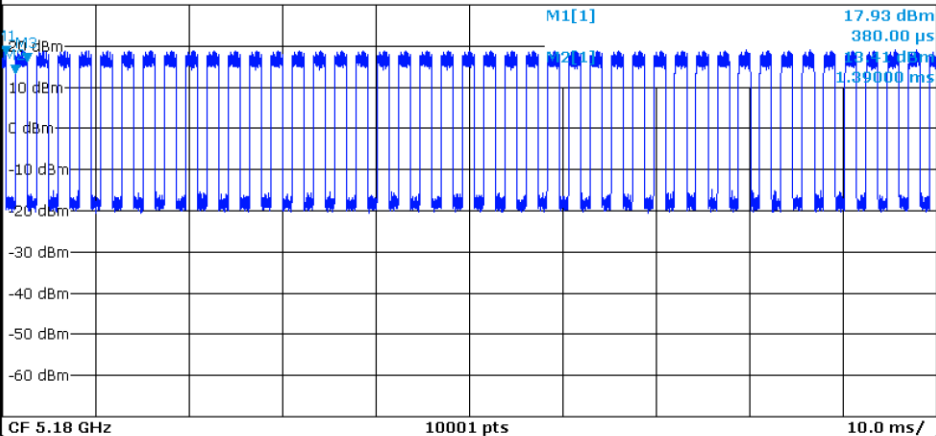
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		390.0 μ s	17.63 dBm		
M2	1		1.4 ms	14.96 dBm		
M3	1		2.76 ms	17.58 dBm		

Duty Cycle NVNT n20 5180MHz Ant1

Spectrum

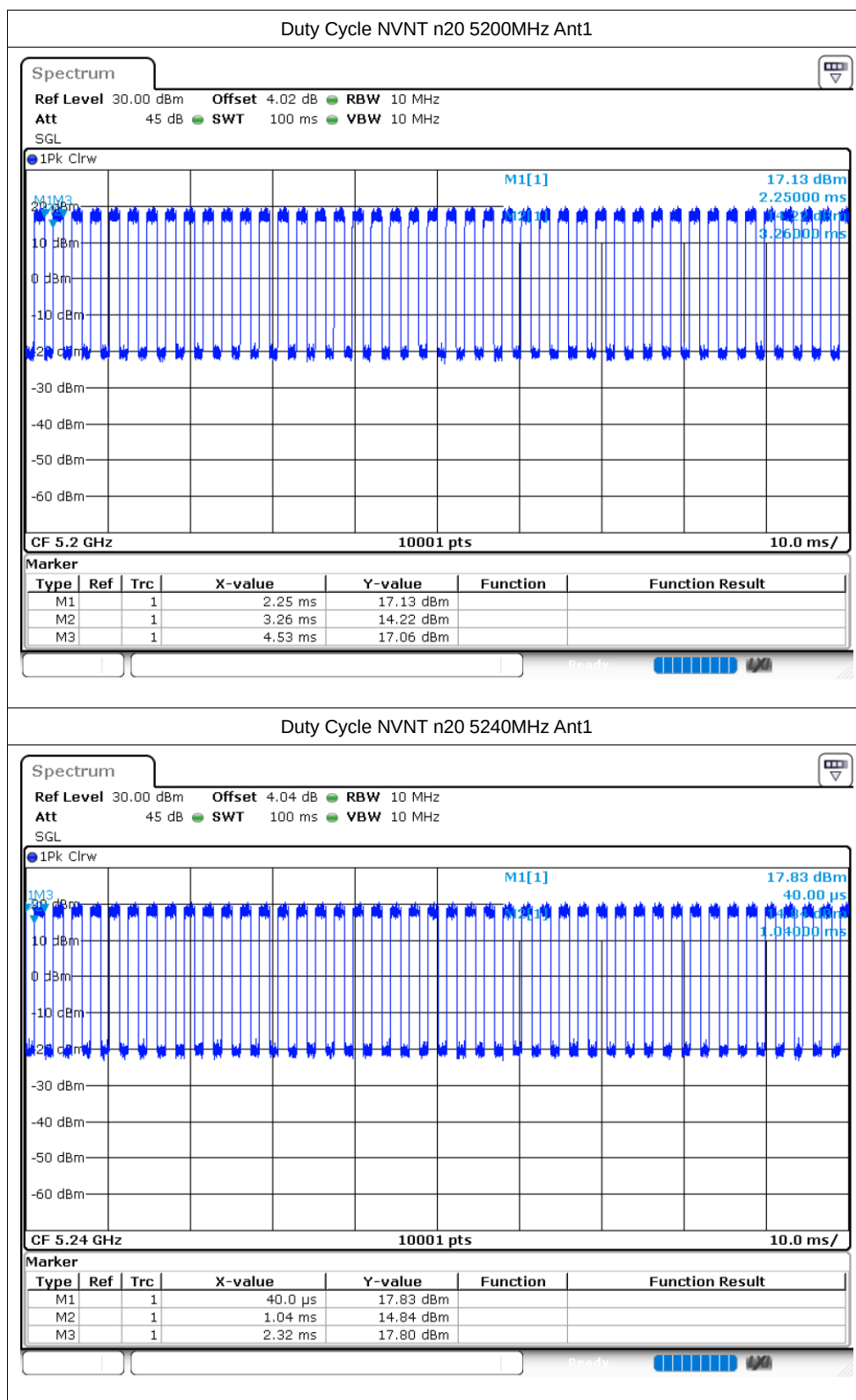
Ref Level 30.00 dBm Offset 3.96 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw

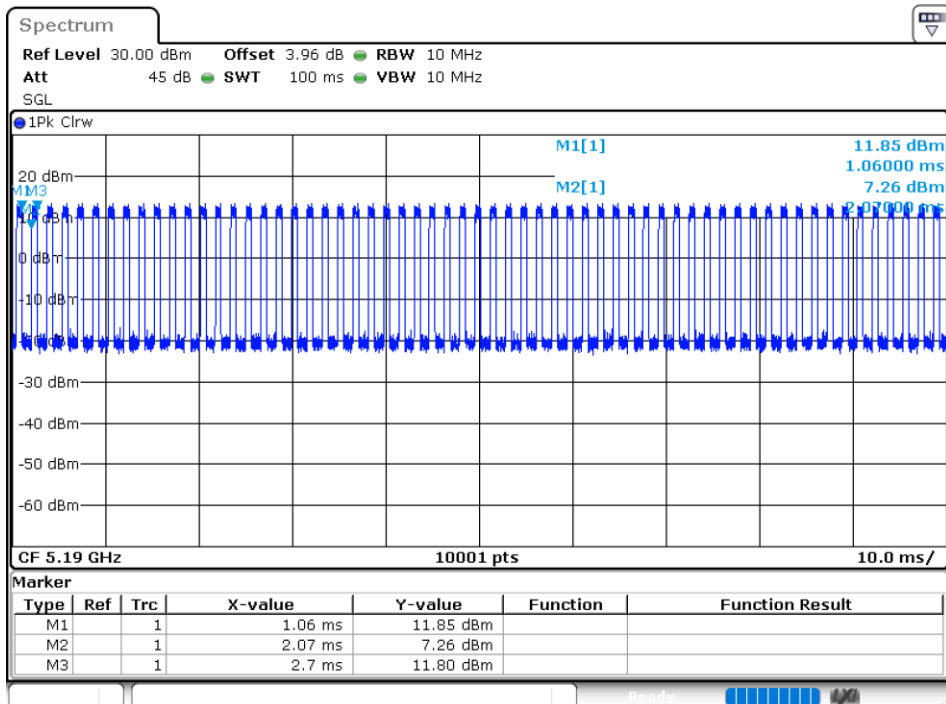


Marker

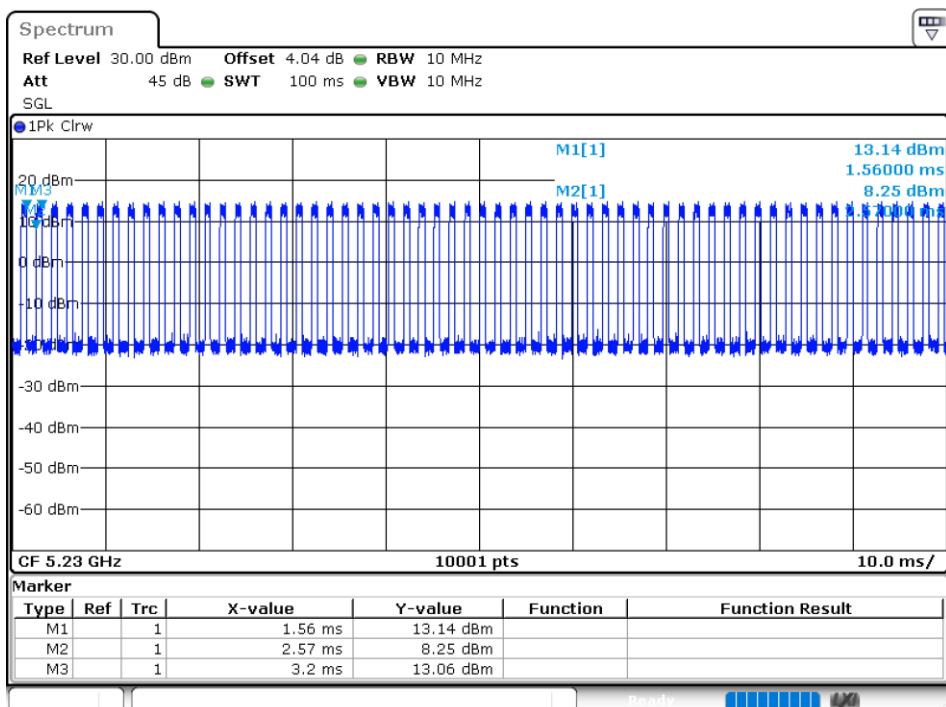
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		380.0 μ s	17.93 dBm		
M2	1		1.39 ms	13.41 dBm		
M3	1		2.66 ms	16.24 dBm		

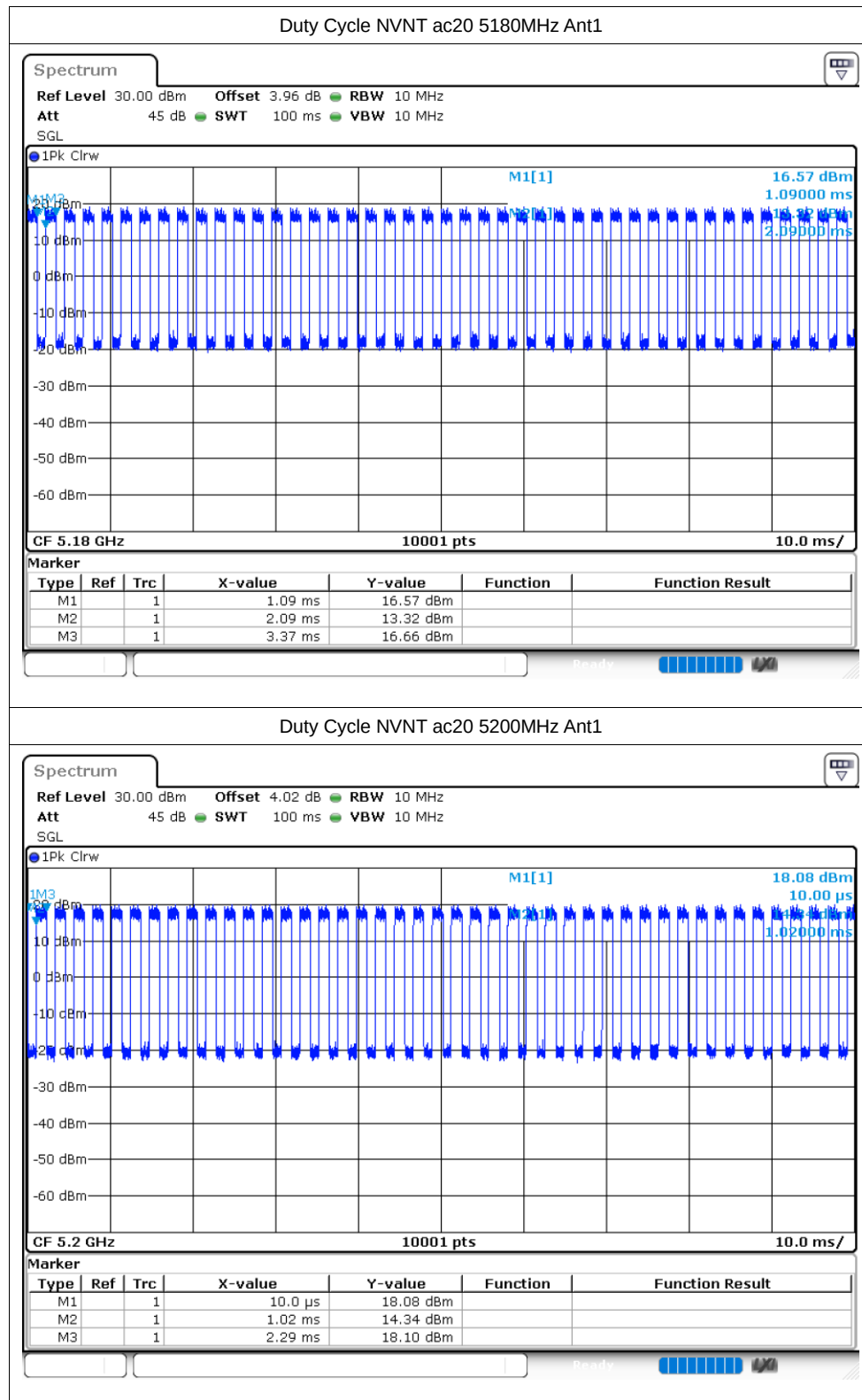


Duty Cycle NVNT n40 5190MHz Ant1

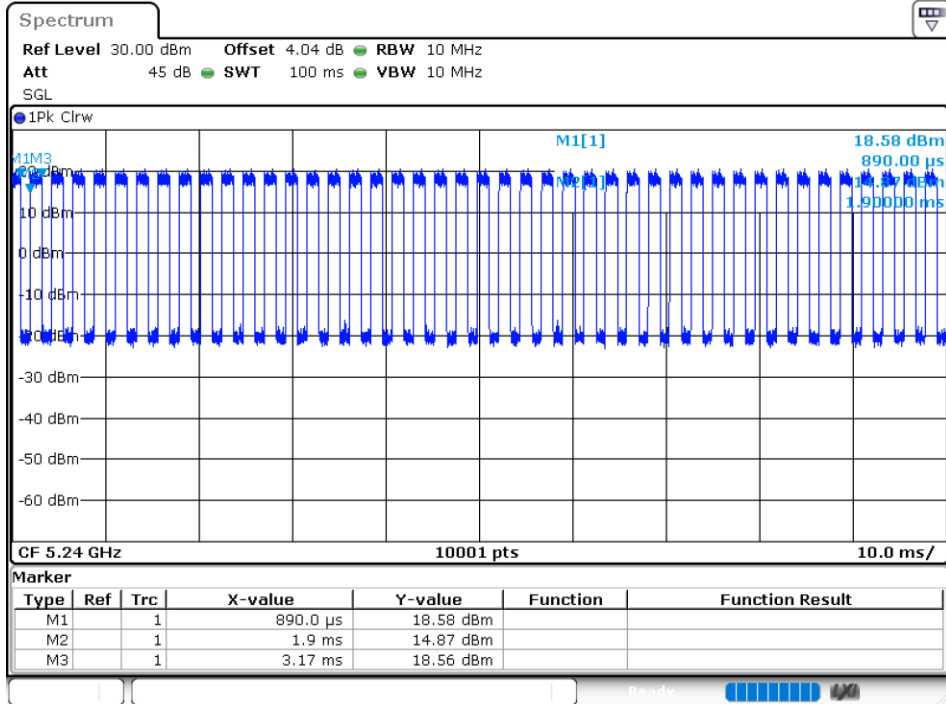


Duty Cycle NVNT n40 5230MHz Ant1

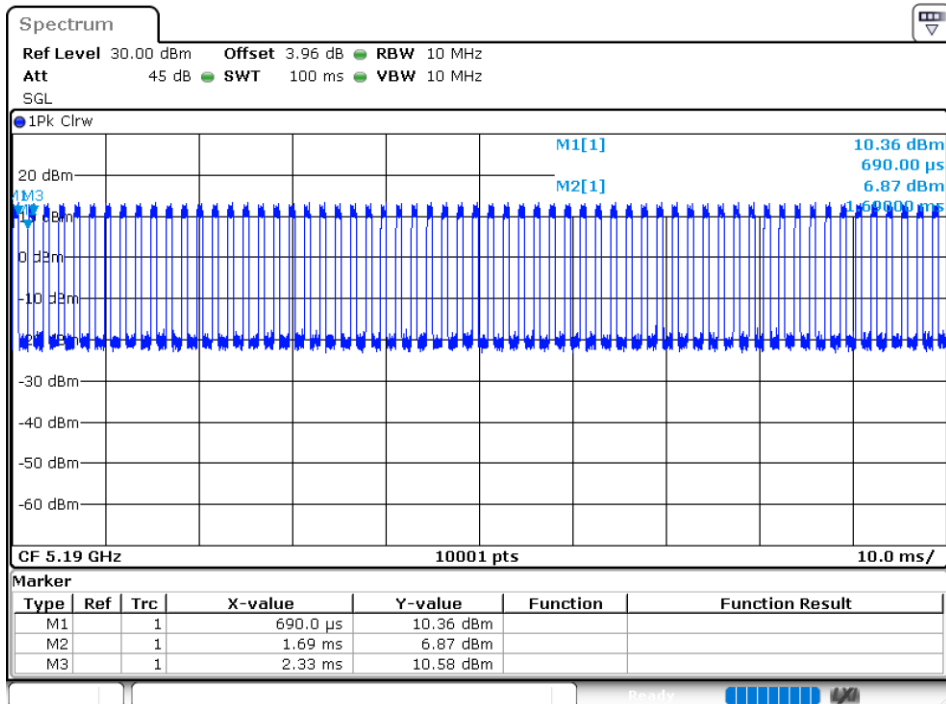




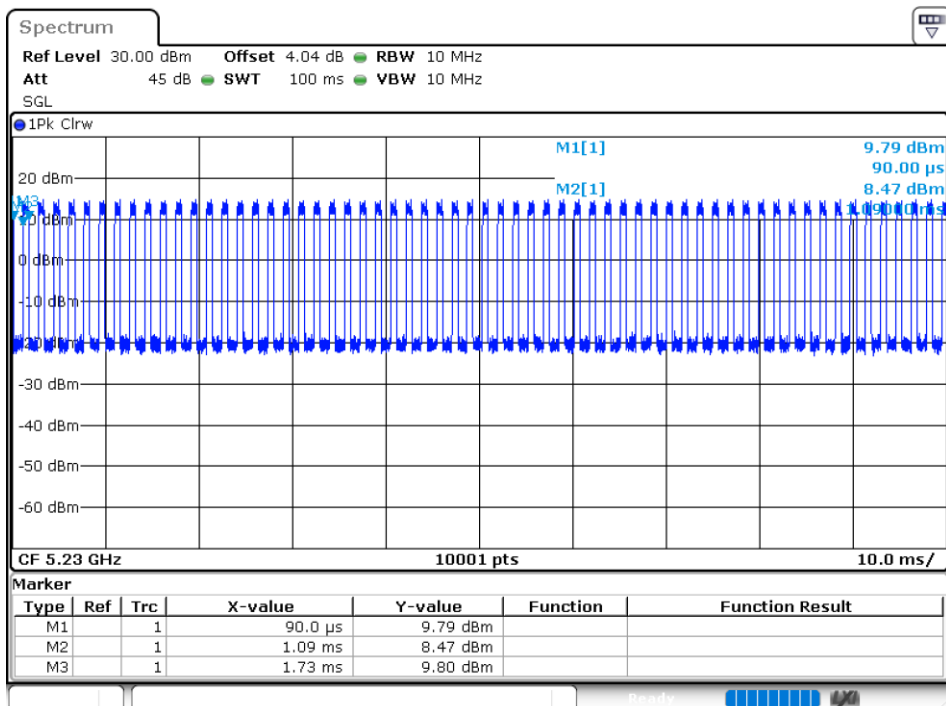
Duty Cycle NVNT ac20 5240MHz Ant1



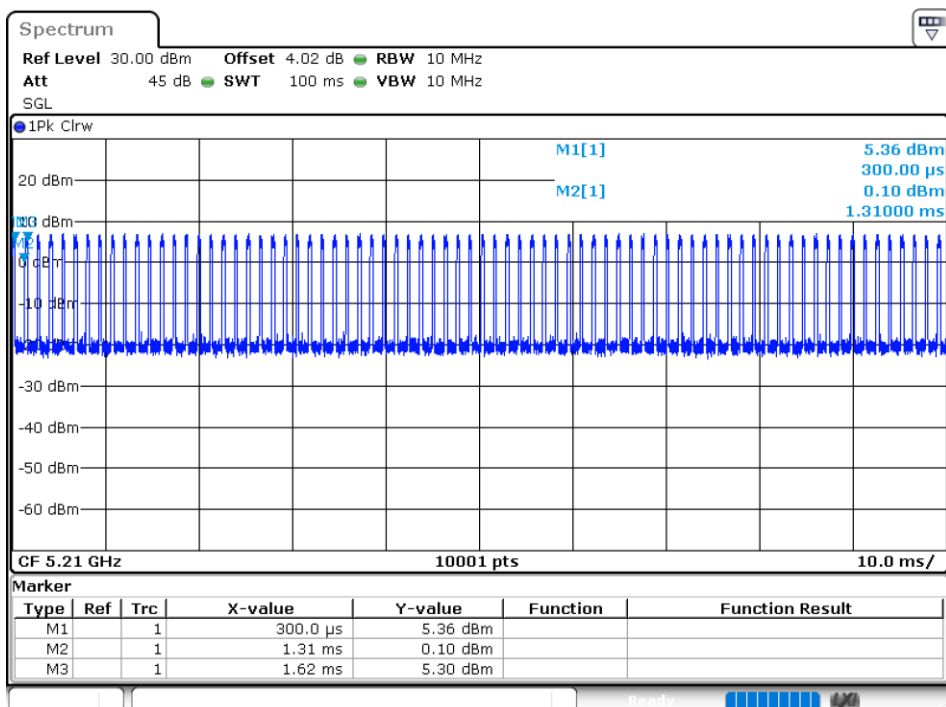
Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	13.59	24	Pass
NVNT	a	5200	Ant1	13.54	24	Pass
NVNT	a	5240	Ant1	13.87	24	Pass
NVNT	n20	5180	Ant1	13.38	24	Pass
NVNT	n20	5200	Ant1	13.53	24	Pass
NVNT	n20	5240	Ant1	14.17	24	Pass
NVNT	n40	5190	Ant1	11.06	24	Pass
NVNT	n40	5230	Ant1	11.27	24	Pass
NVNT	ac20	5180	Ant1	13.59	24	Pass
NVNT	ac20	5200	Ant1	13.84	24	Pass
NVNT	ac20	5240	Ant1	14.11	24	Pass
NVNT	ac40	5190	Ant1	10.82	24	Pass
NVNT	ac40	5230	Ant1	11.53	24	Pass
NVNT	ac80	5210	Ant1	8.68	24	Pass

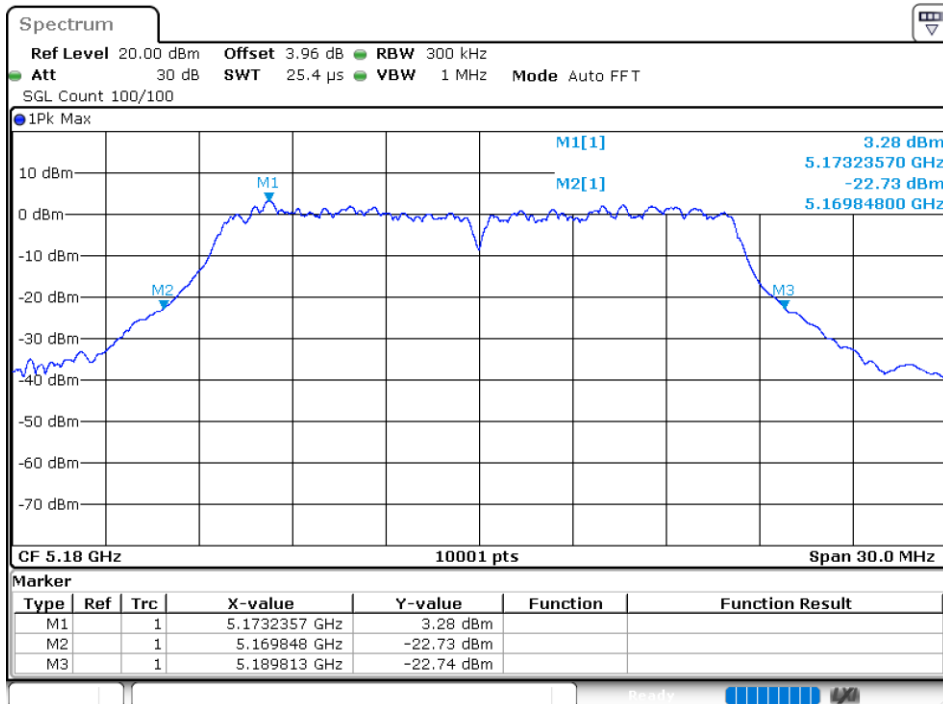
Note: The Duty Cycle factor has already been included.

-26dB Bandwidth

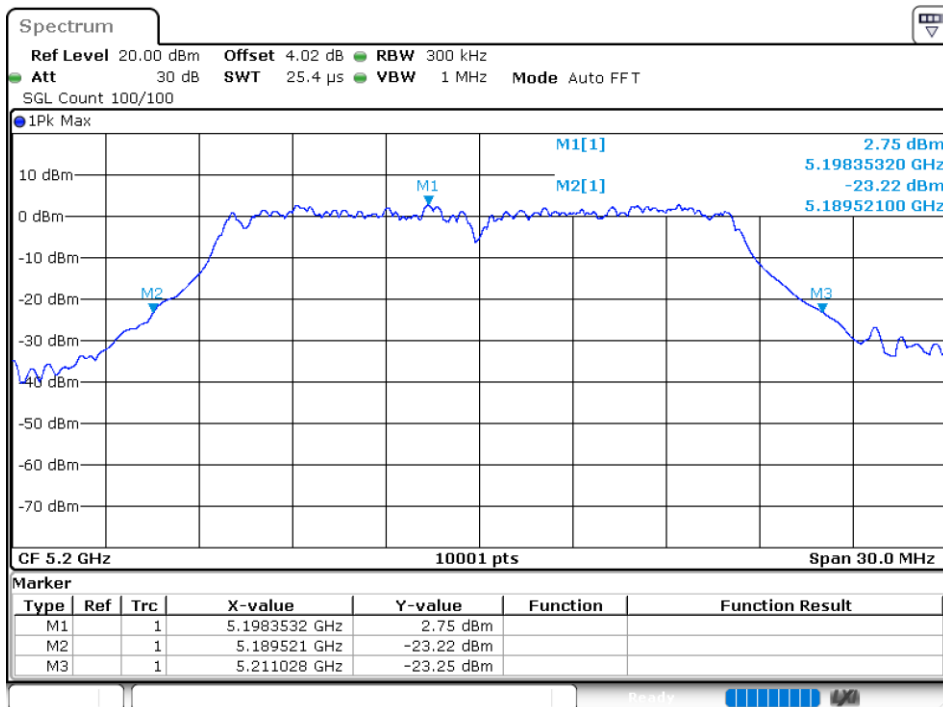
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.965	Pass
NVNT	a	5200	Ant1	21.507	Pass
NVNT	a	5240	Ant1	21.291	Pass
NVNT	n20	5180	Ant1	21.309	Pass
NVNT	n20	5200	Ant1	21.234	Pass
NVNT	n20	5240	Ant1	21.585	Pass
NVNT	n40	5190	Ant1	43.59	Pass
NVNT	n40	5230	Ant1	43.434	Pass
NVNT	ac20	5180	Ant1	21.411	Pass
NVNT	ac20	5200	Ant1	20.853	Pass
NVNT	ac20	5240	Ant1	21.783	Pass
NVNT	ac40	5190	Ant1	43.386	Pass
NVNT	ac40	5230	Ant1	43.158	Pass
NVNT	ac80	5210	Ant1	82.752	Pass

Test Graphs

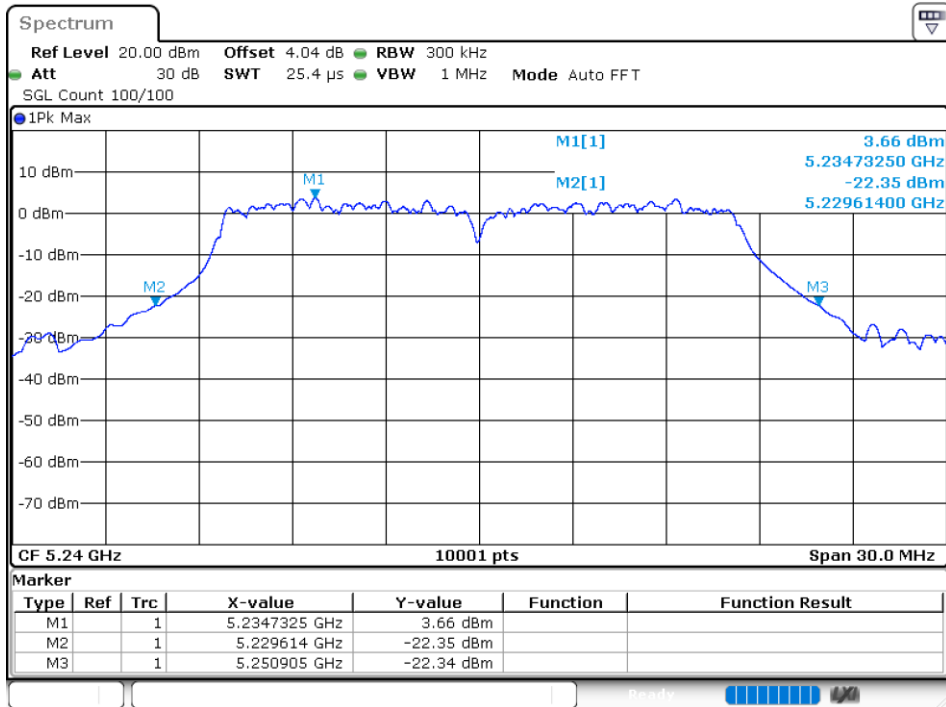
-26dB Bandwidth NVNT a 5180MHz Ant1



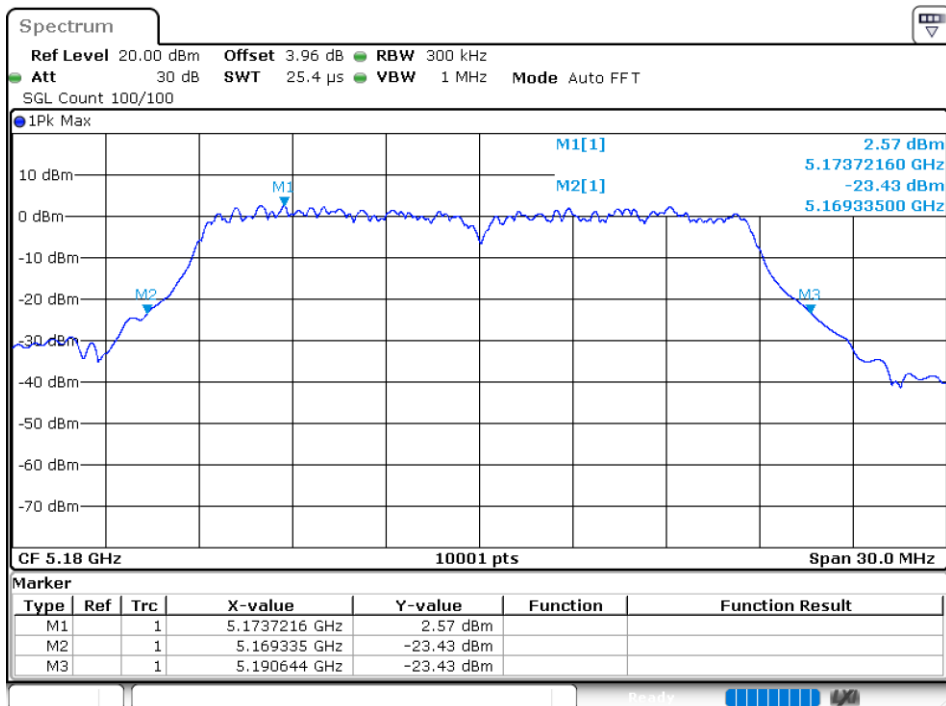
-26dB Bandwidth NVNT a 5200MHz Ant1

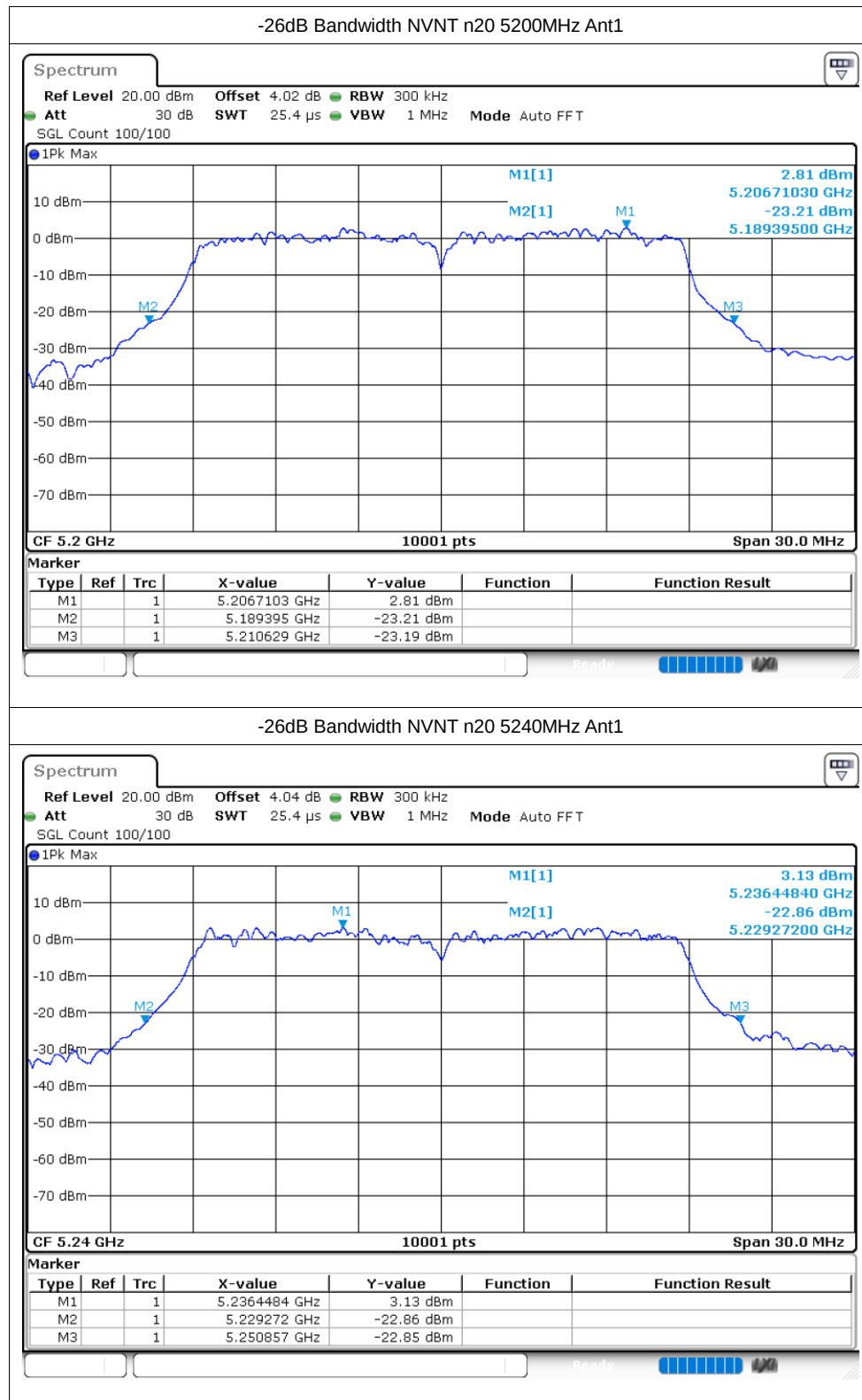


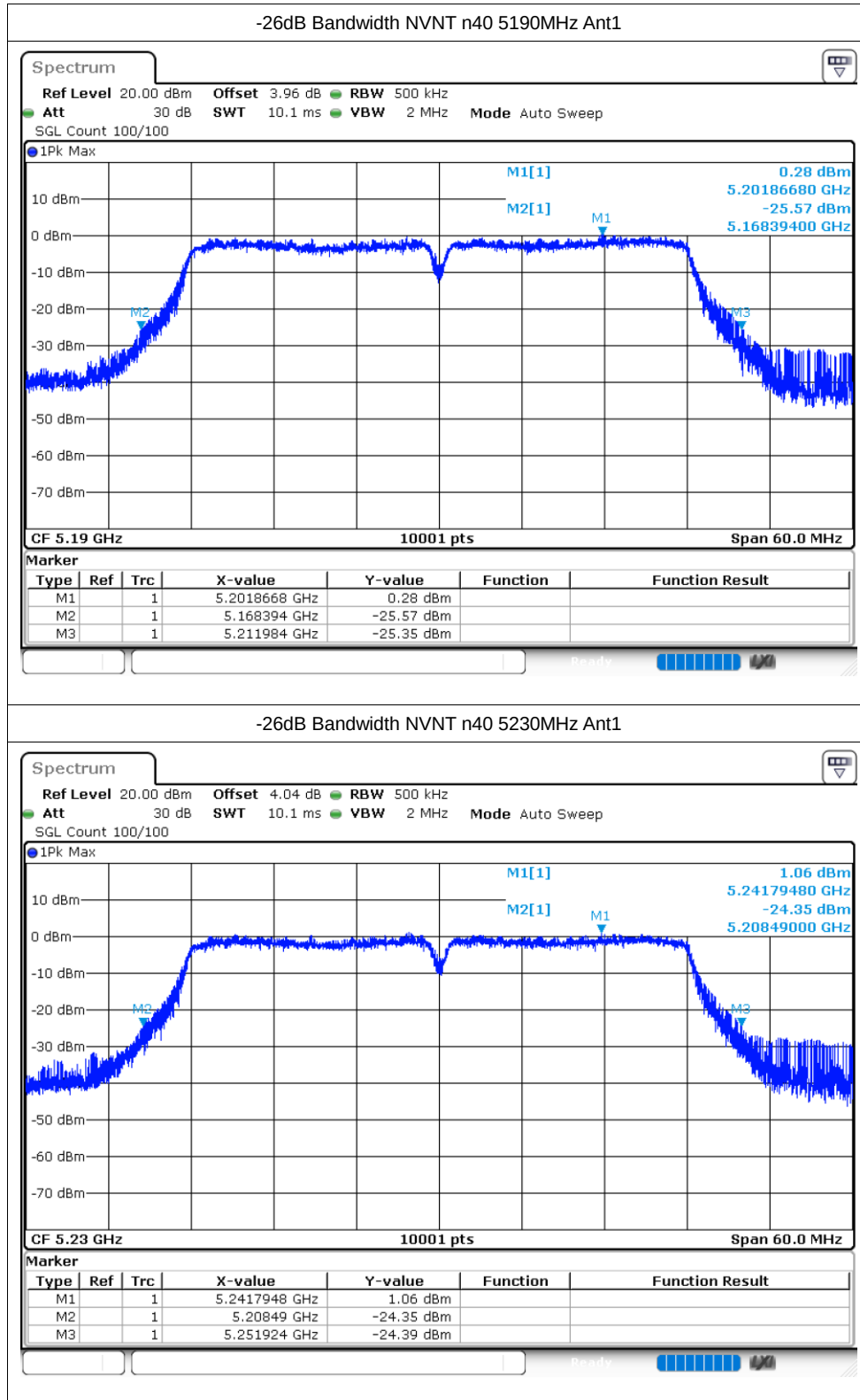
-26dB Bandwidth NVNT a 5240MHz Ant1



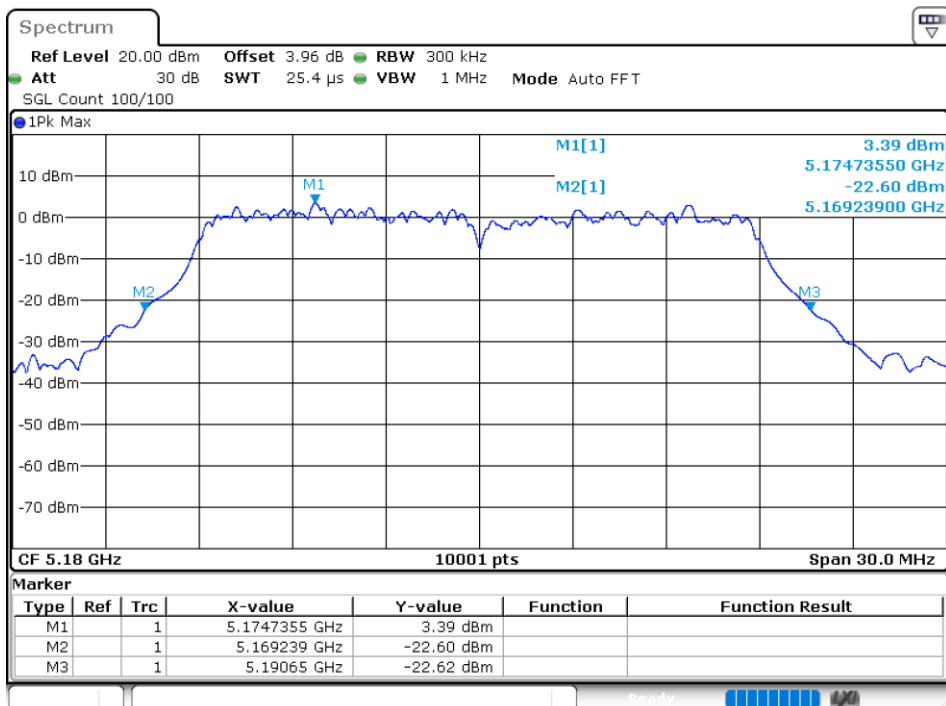
-26dB Bandwidth NVNT n20 5180MHz Ant1



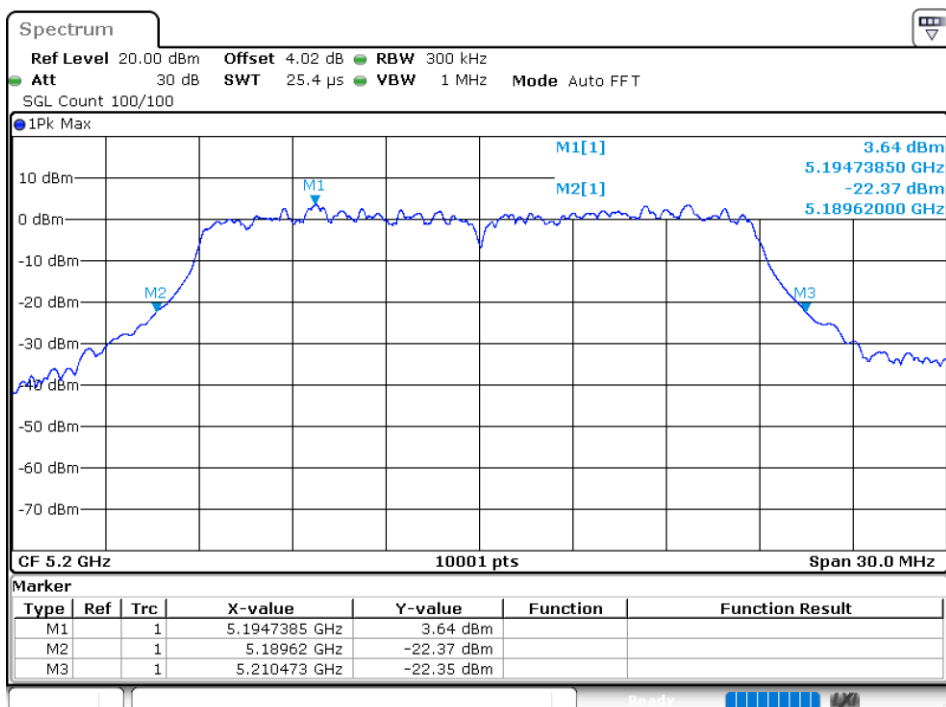




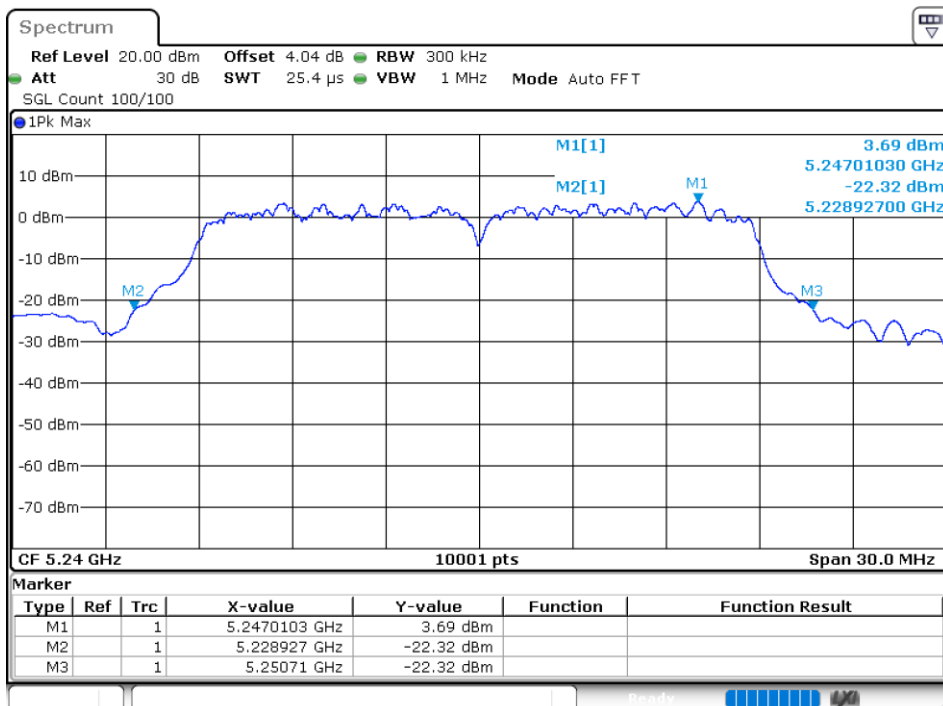
-26dB Bandwidth NVNT ac20 5180MHz Ant1



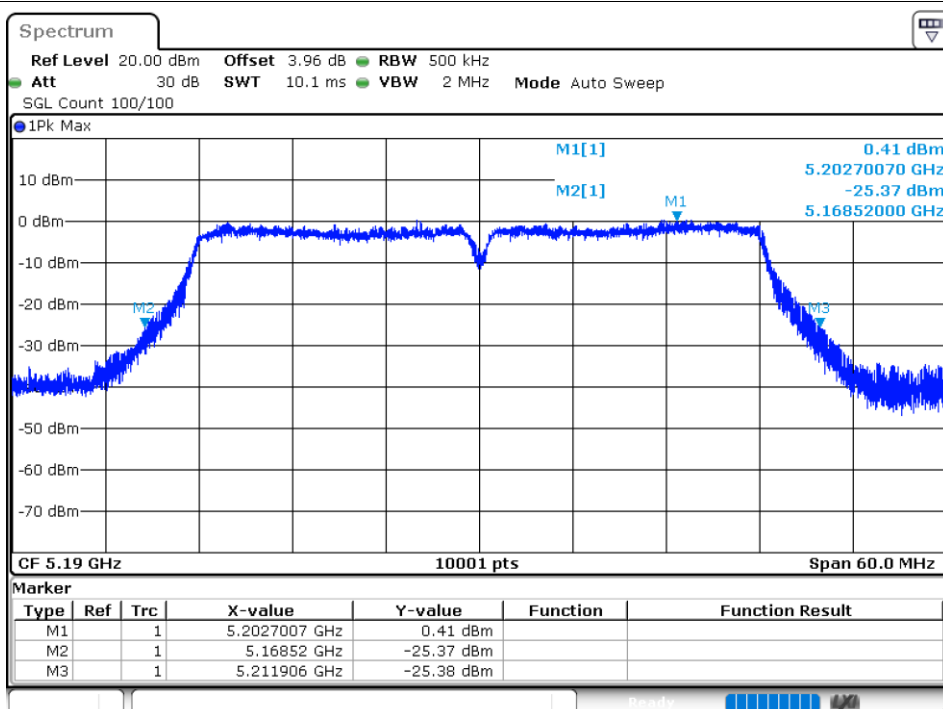
-26dB Bandwidth NVNT ac20 5200MHz Ant1

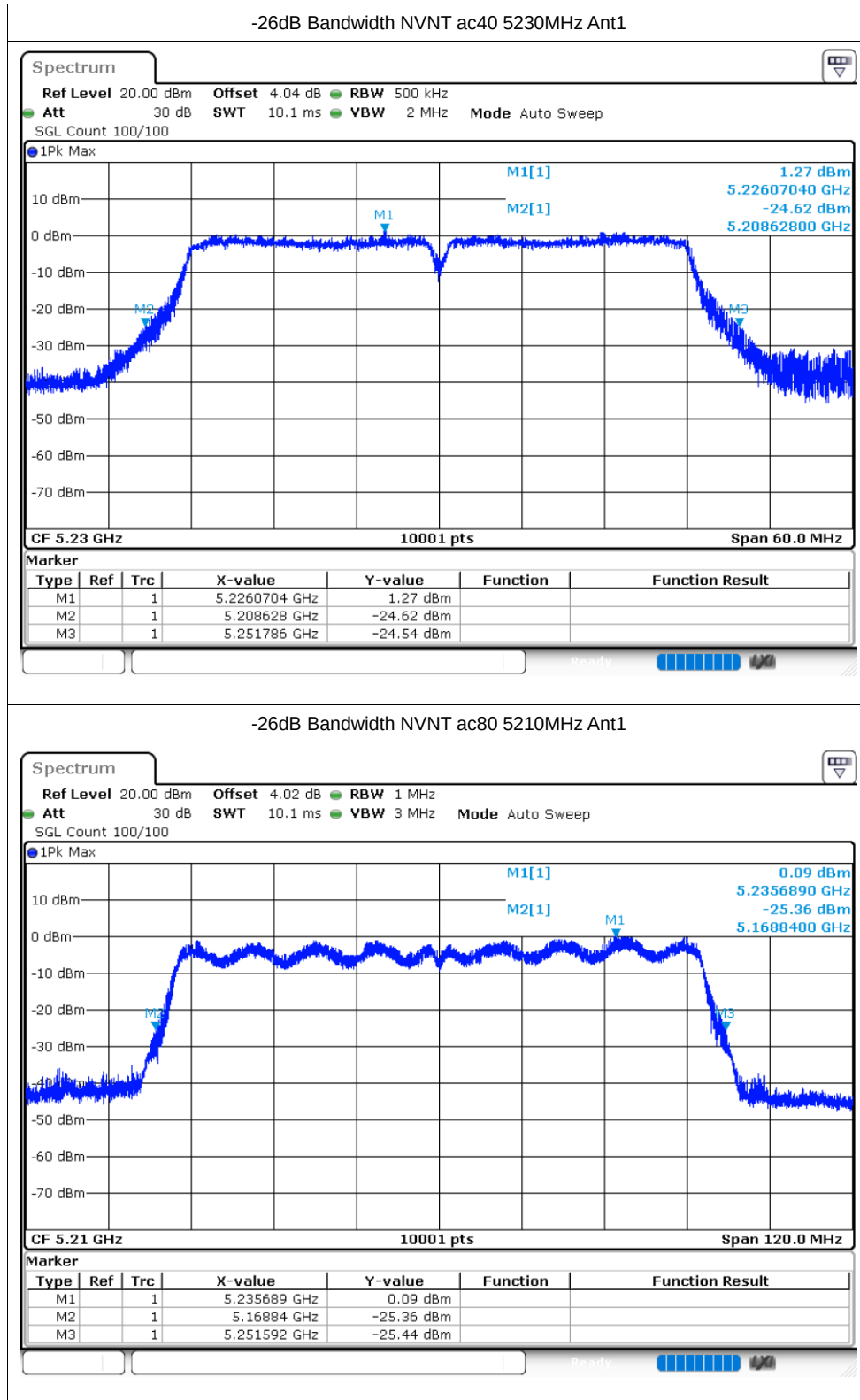


-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1



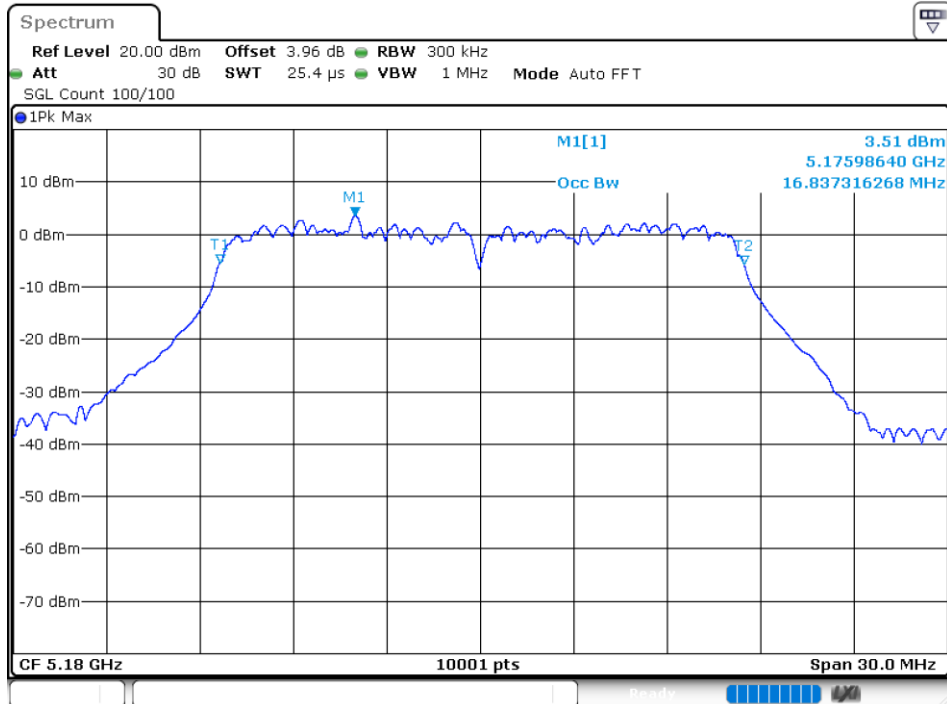


Occupied Channel Bandwidth

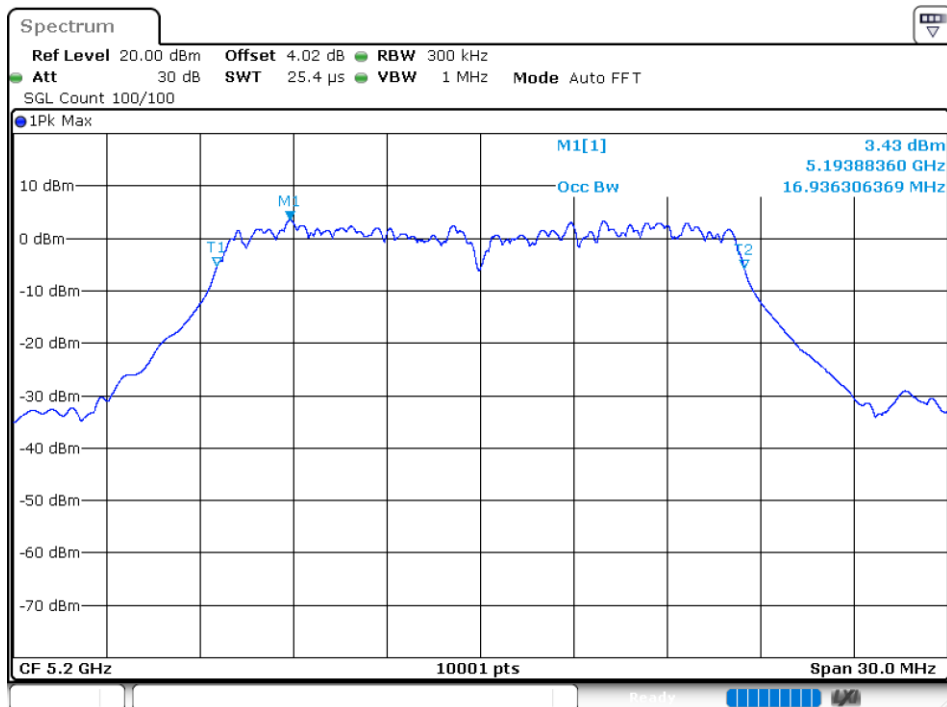
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.837
NVNT	a	5200	Ant1	16.936
NVNT	a	5240	Ant1	16.747
NVNT	n20	5180	Ant1	17.689
NVNT	n20	5200	Ant1	17.734
NVNT	n20	5240	Ant1	17.836
NVNT	n40	5190	Ant1	36.458
NVNT	n40	5230	Ant1	36.392
NVNT	ac20	5180	Ant1	18.106
NVNT	ac20	5200	Ant1	17.815
NVNT	ac20	5240	Ant1	17.821
NVNT	ac40	5190	Ant1	36.416
NVNT	ac40	5230	Ant1	36.356
NVNT	ac80	5210	Ant1	75.76

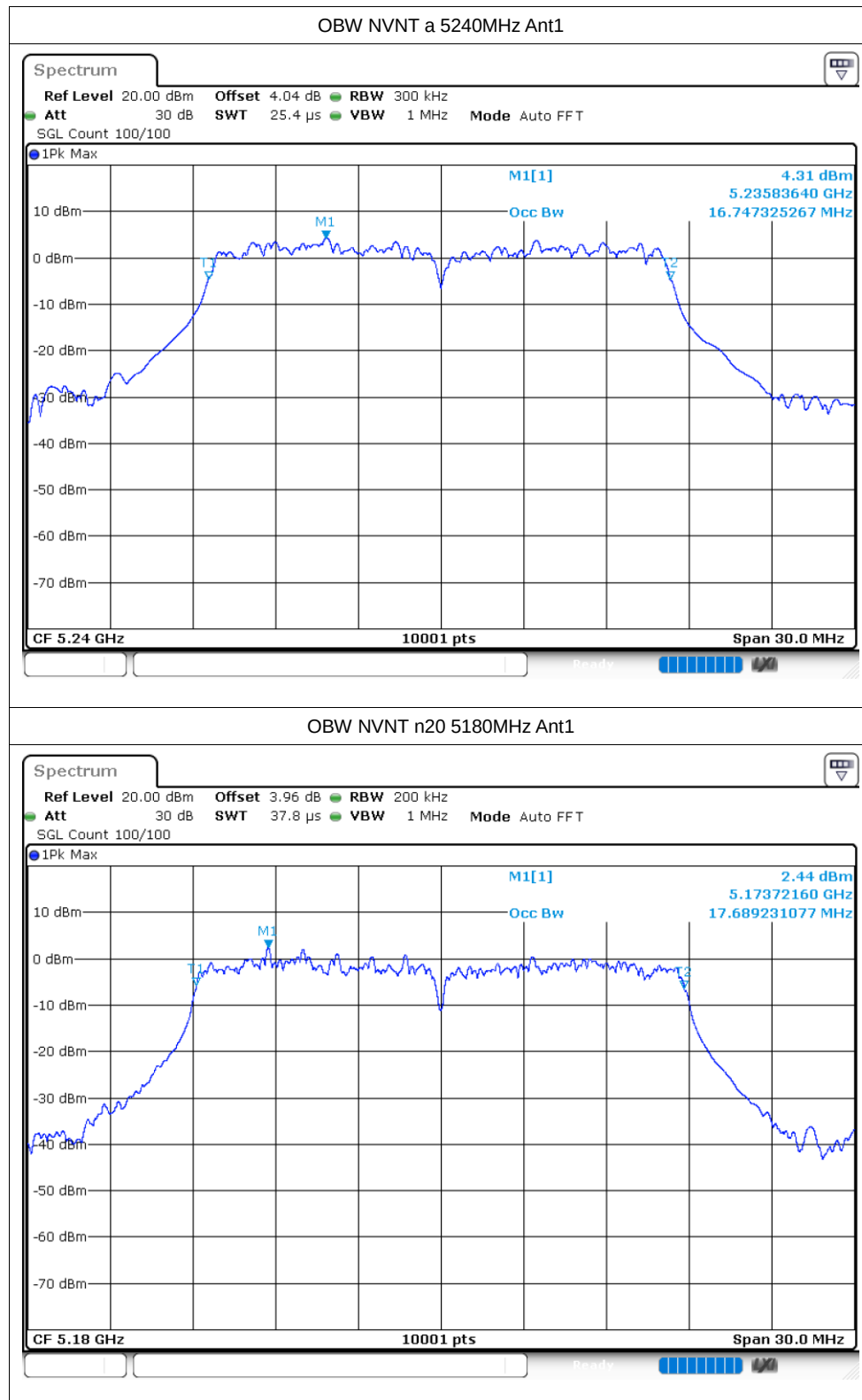
Test Graphs

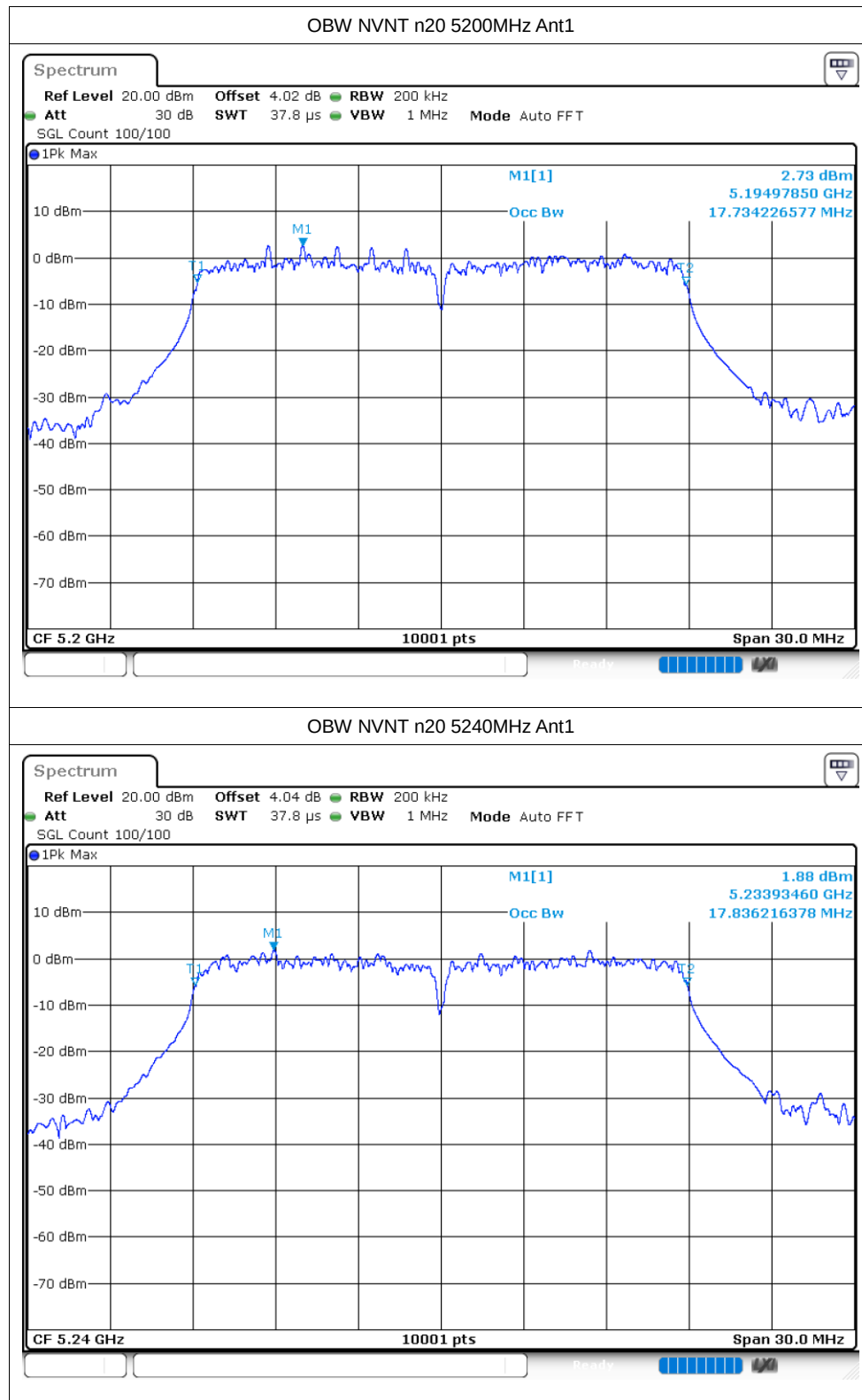
OBW NVNT a 5180MHz Ant1

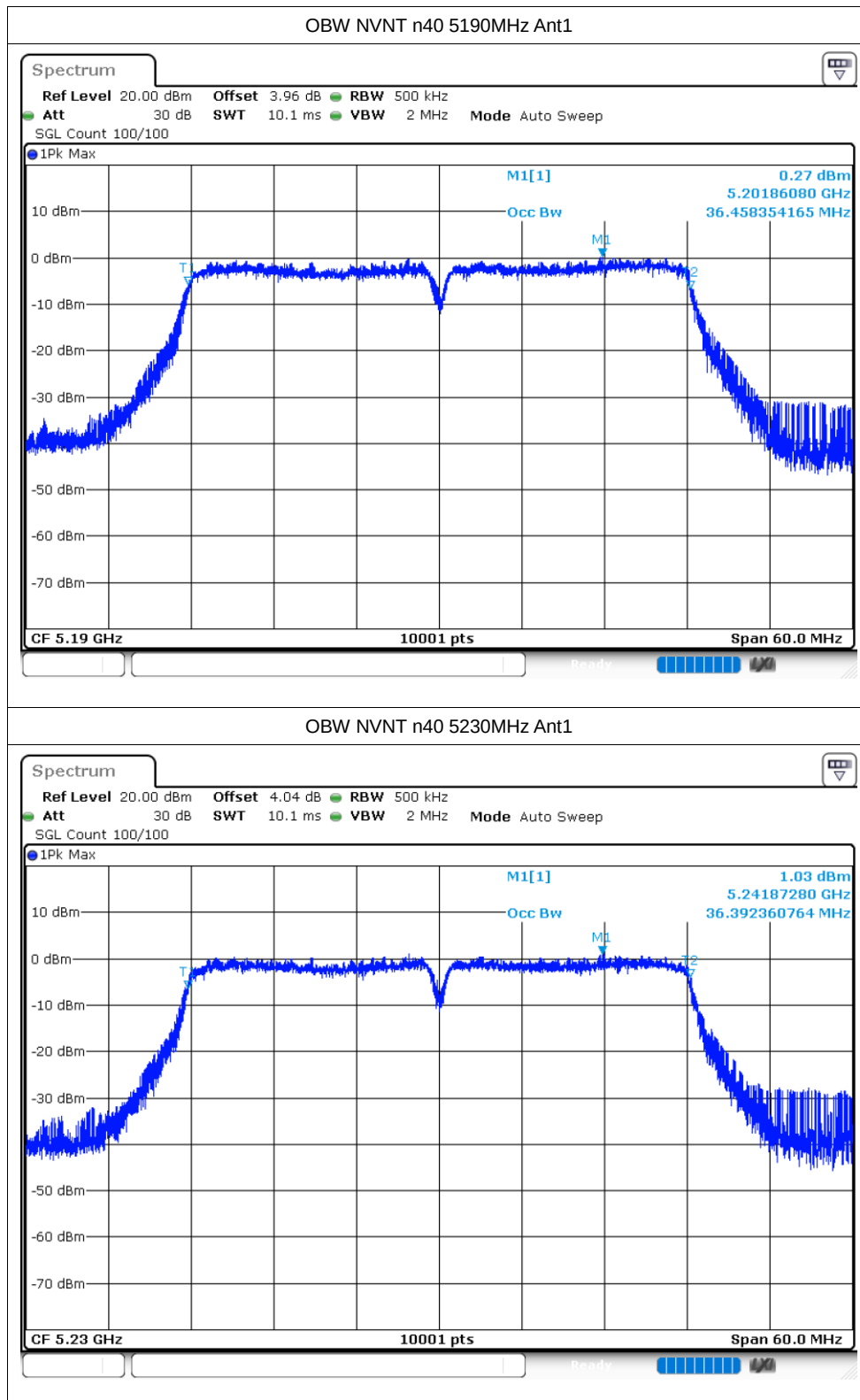


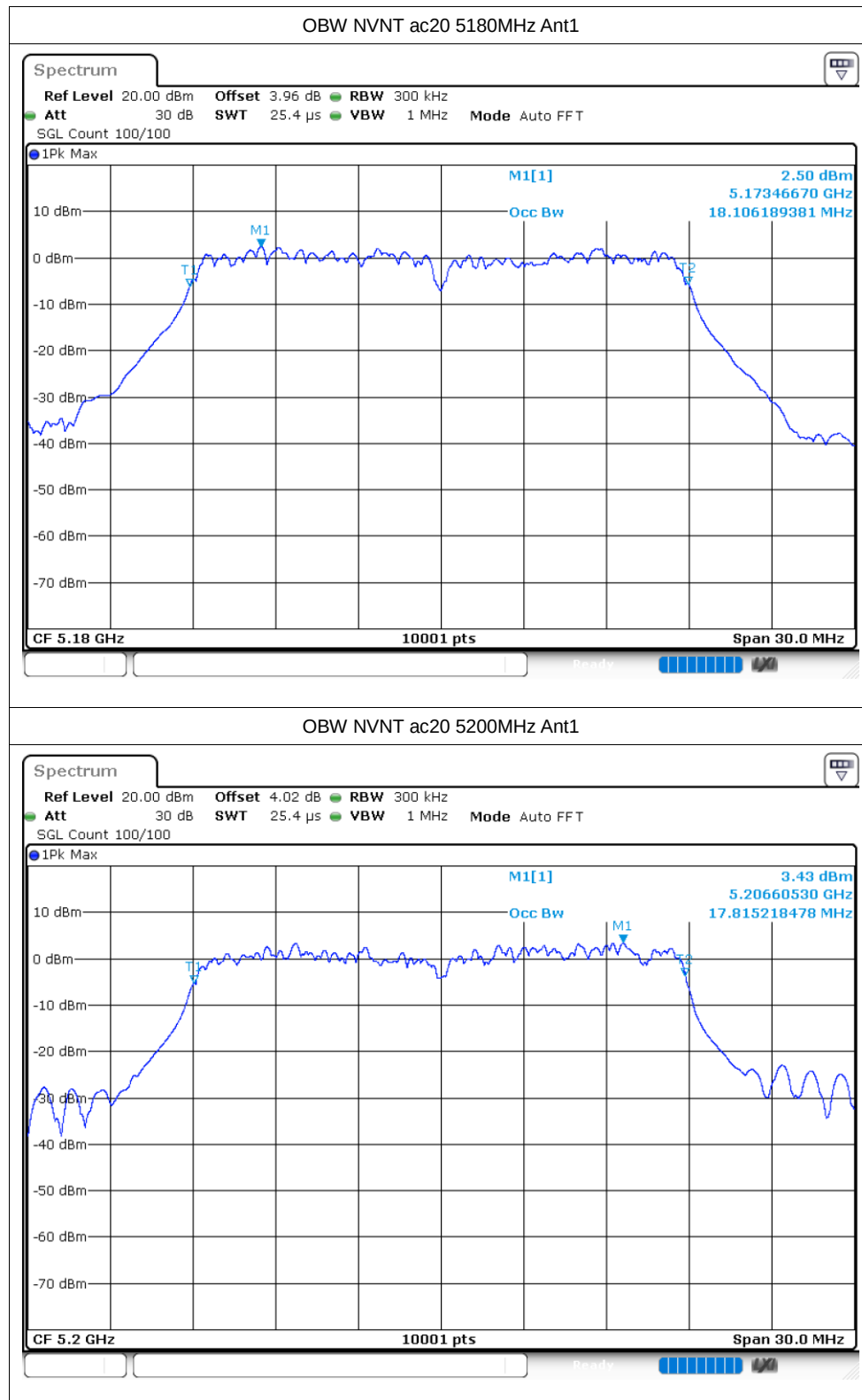
OBW NVNT a 5200MHz Ant1

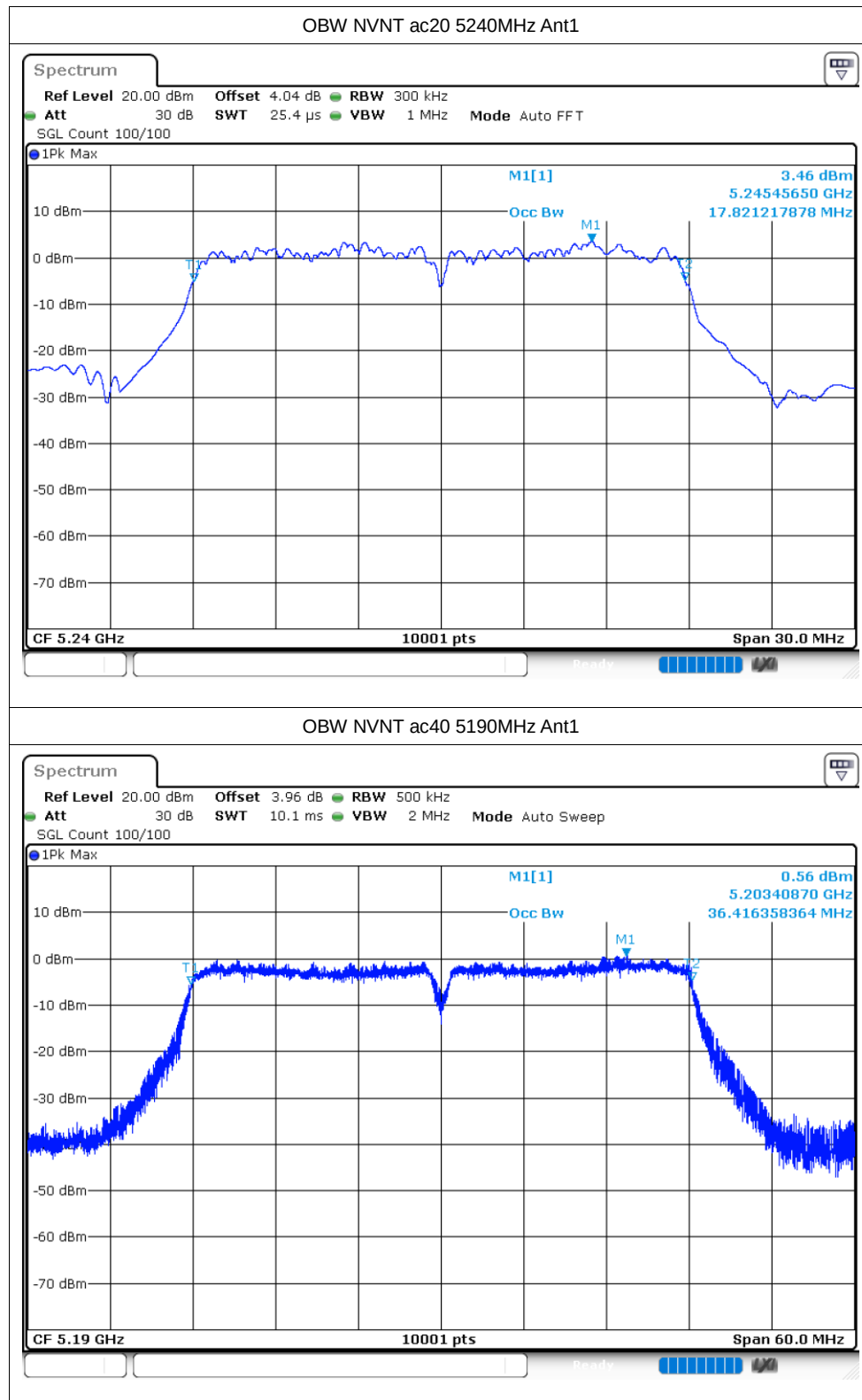


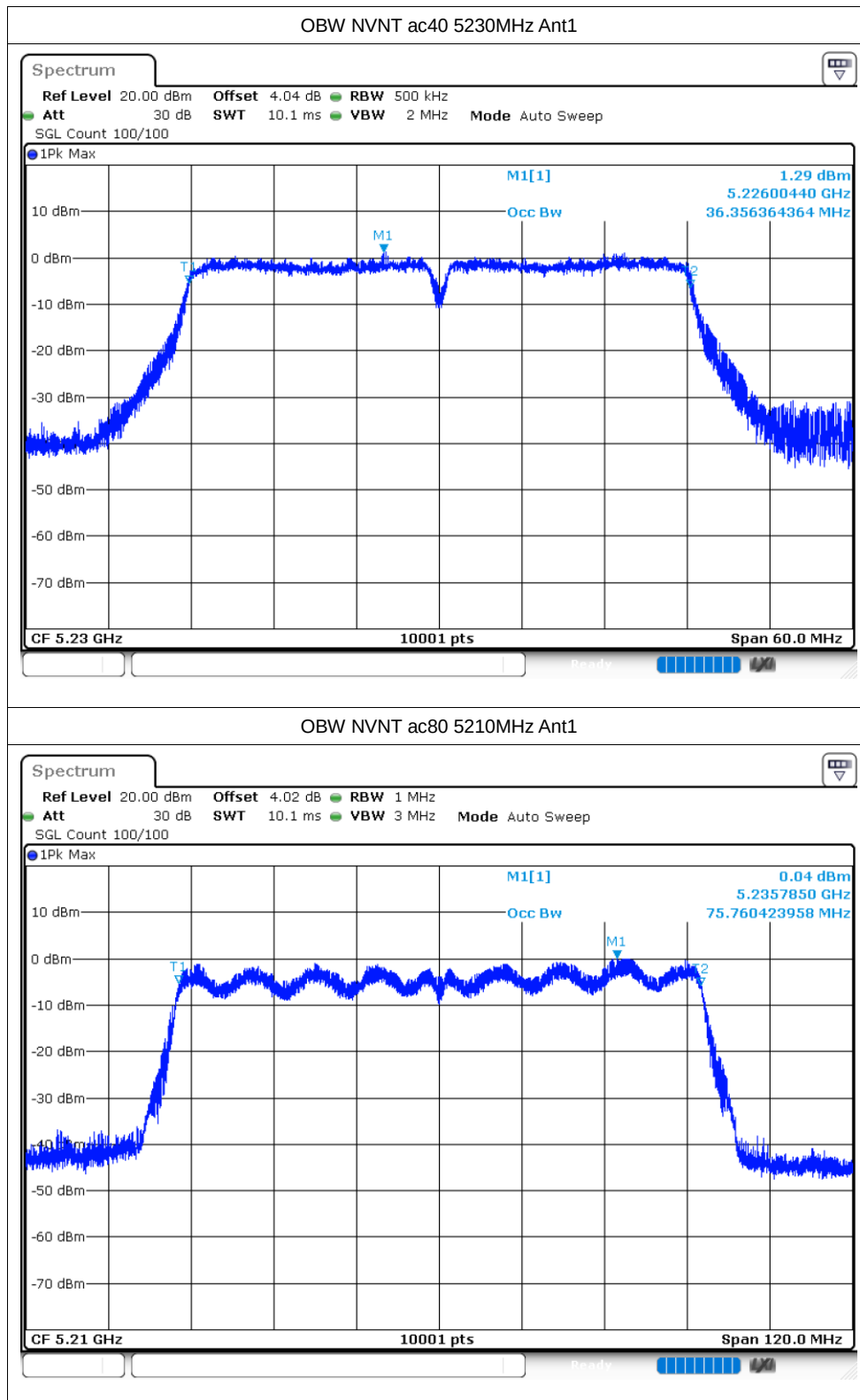












Maximum Power Spectral Density Level

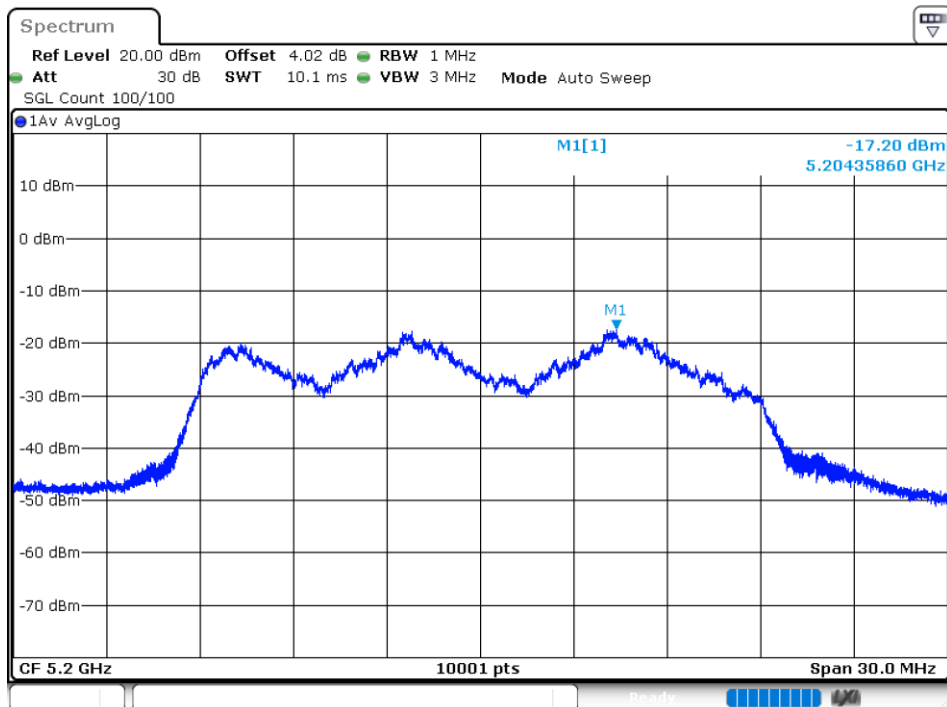
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-14.56	2.4	-12.16	11	Pass
NVNT	a	5200	Ant1	-17.2	2.4	-14.8	11	Pass
NVNT	a	5240	Ant1	-19.63	2.37	-17.26	11	Pass
NVNT	n20	5180	Ant1	-20.31	2.5	-17.81	11	Pass
NVNT	n20	5200	Ant1	-20.21	2.5	-17.71	11	Pass
NVNT	n20	5240	Ant1	-21.19	2.5	-18.69	11	Pass
NVNT	n40	5190	Ant1	-32.99	4.07	-28.92	11	Pass
NVNT	n40	5230	Ant1	-32.26	4.07	-28.19	11	Pass
NVNT	ac20	5180	Ant1	-21.79	2.49	-19.3	11	Pass
NVNT	ac20	5200	Ant1	-21.27	2.5	-18.77	11	Pass
NVNT	ac20	5240	Ant1	-20.51	2.5	-18.01	11	Pass
NVNT	ac40	5190	Ant1	-31.26	4.05	-27.21	11	Pass
NVNT	ac40	5230	Ant1	-32.82	4.05	-28.77	11	Pass
NVNT	ac80	5210	Ant1	-41.44	6.06	-35.38	11	Pass

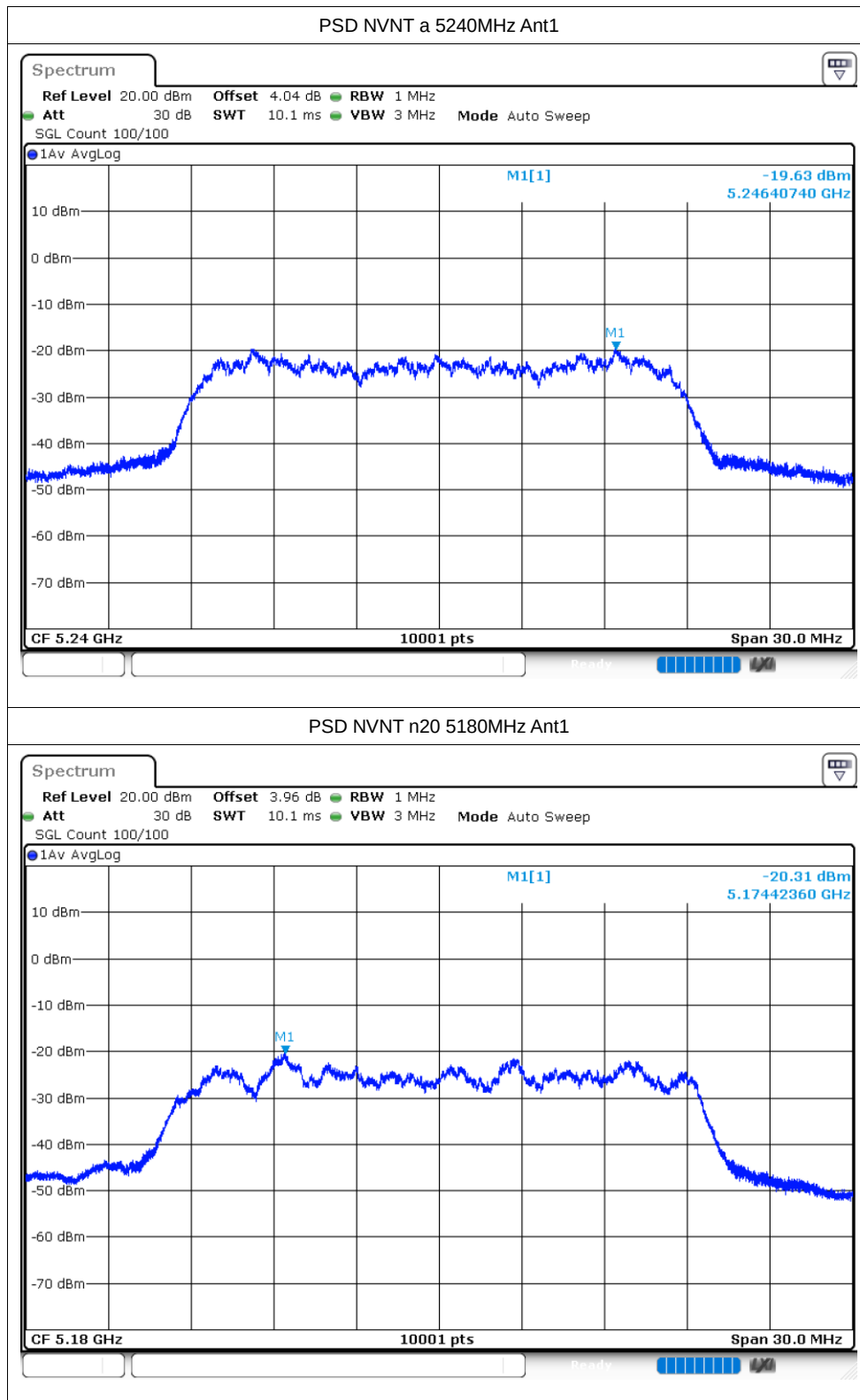
Test Graphs

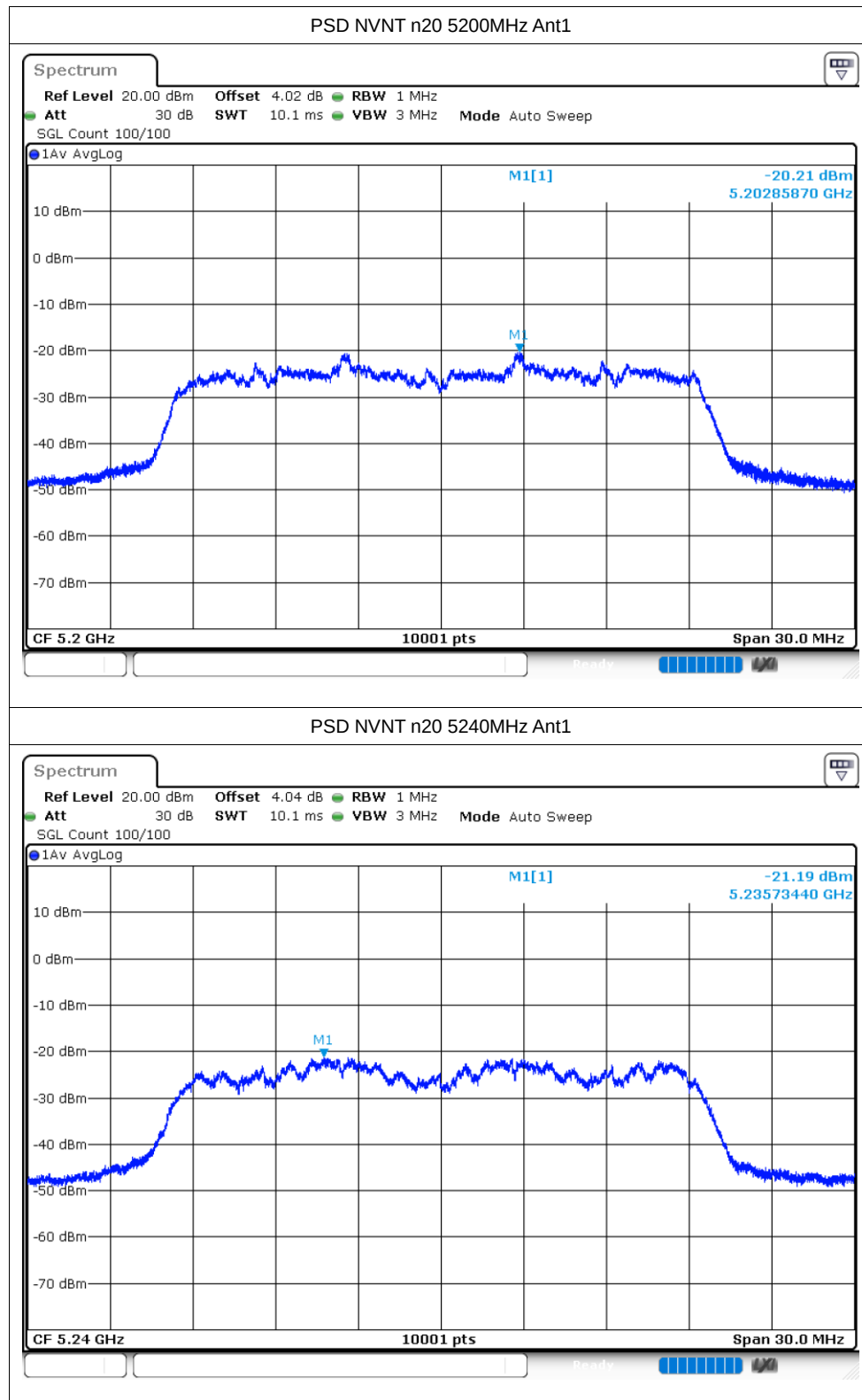
PSD NVNT a 5180MHz Ant1

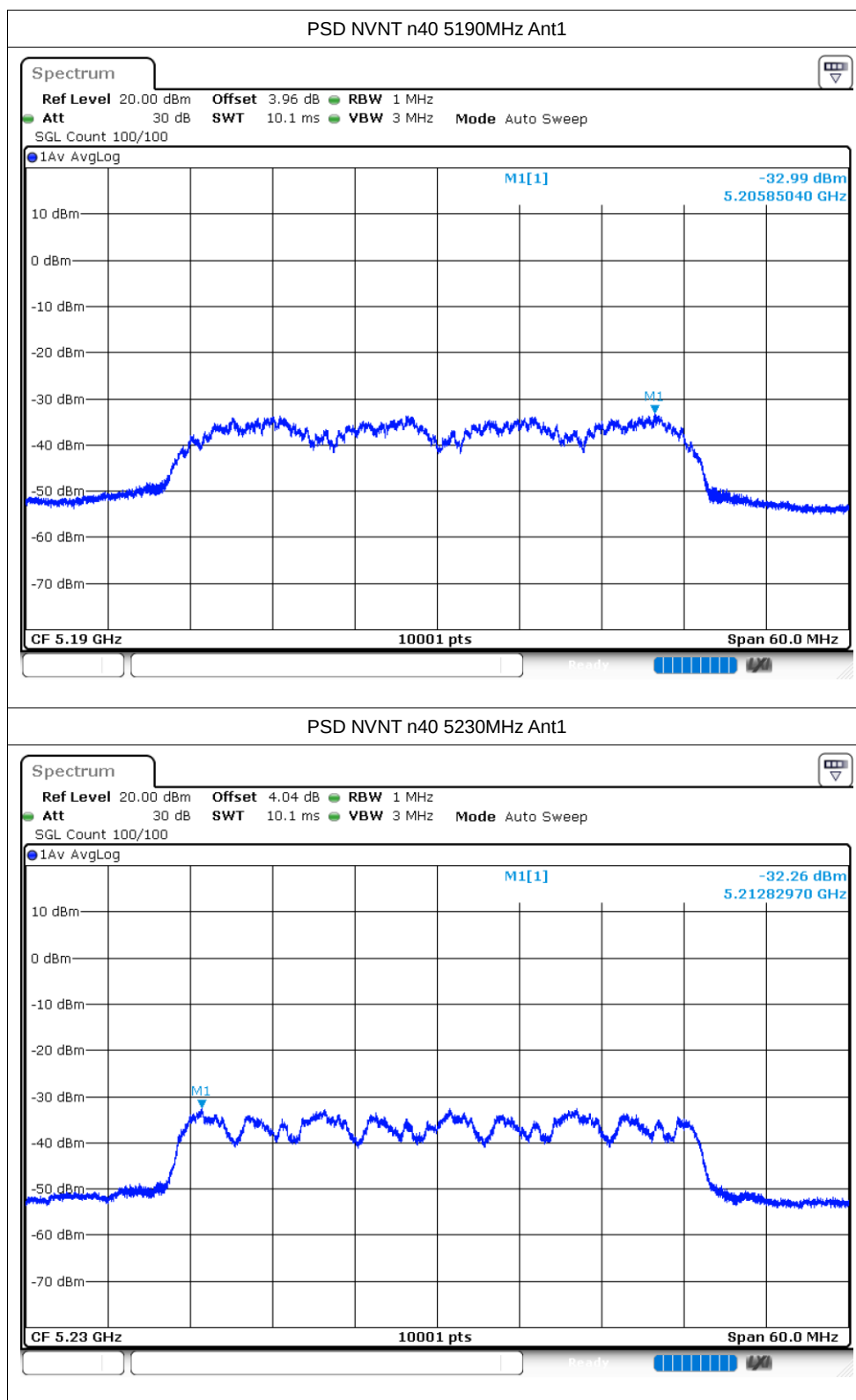


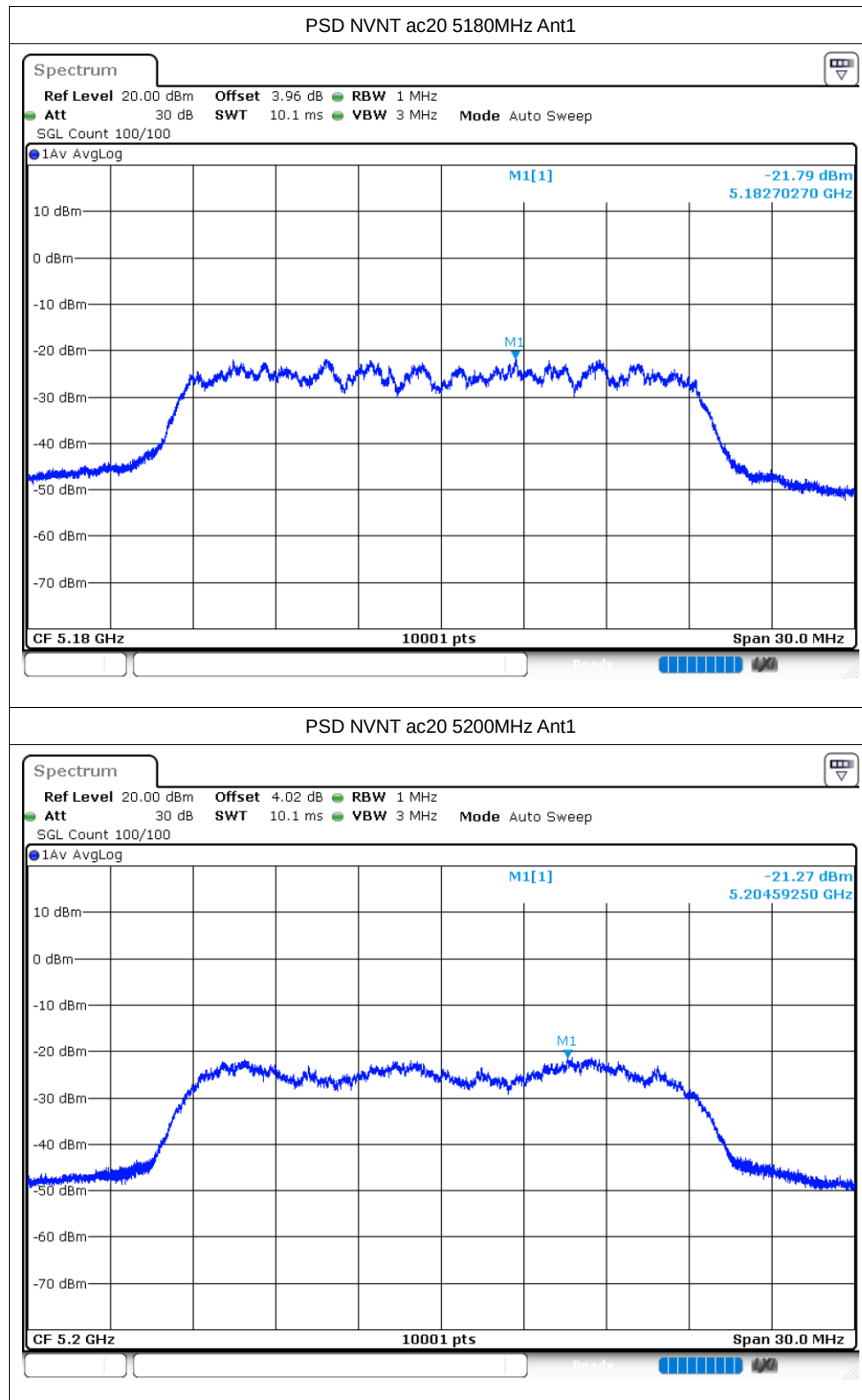
PSD NVNT a 5200MHz Ant1

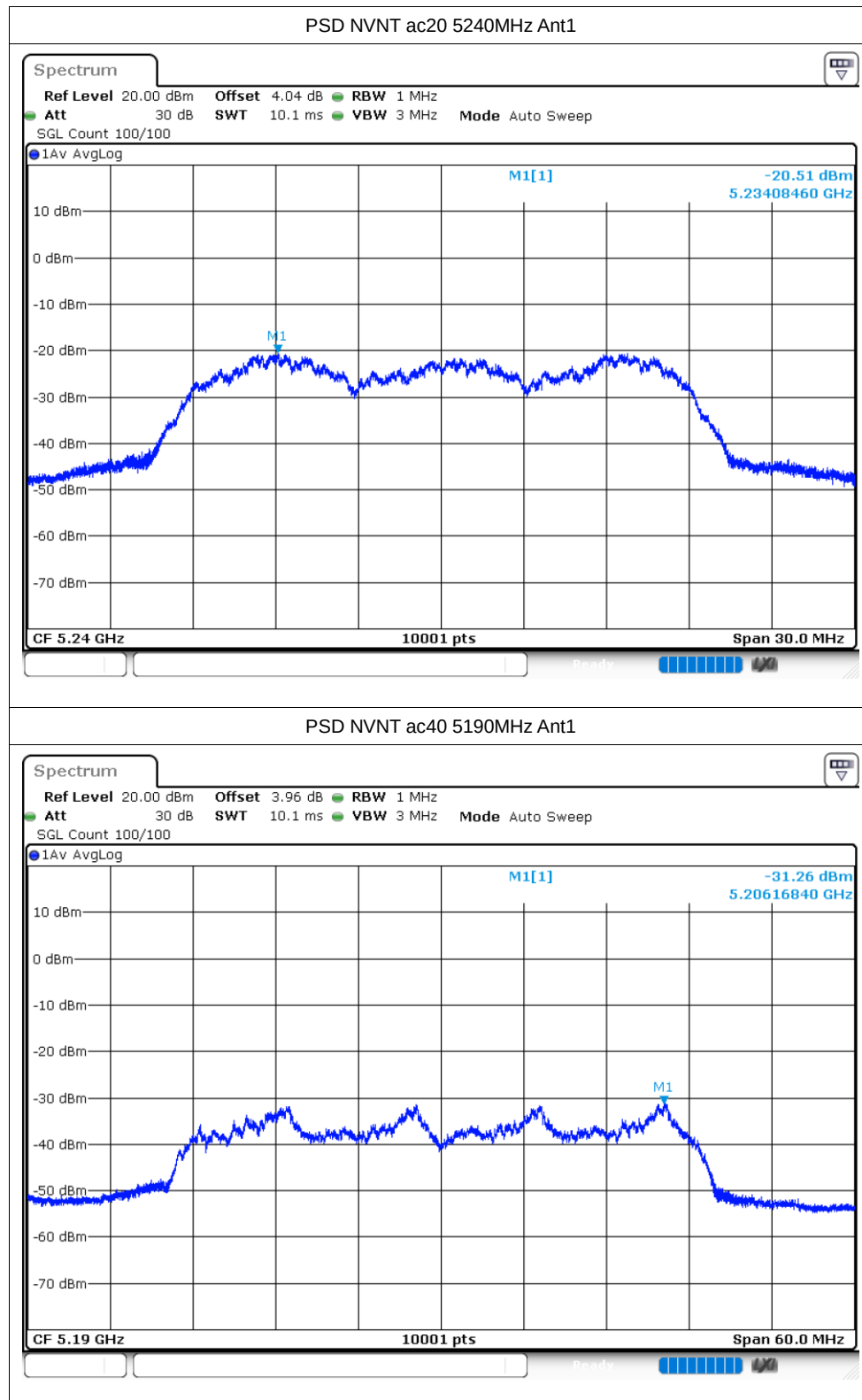


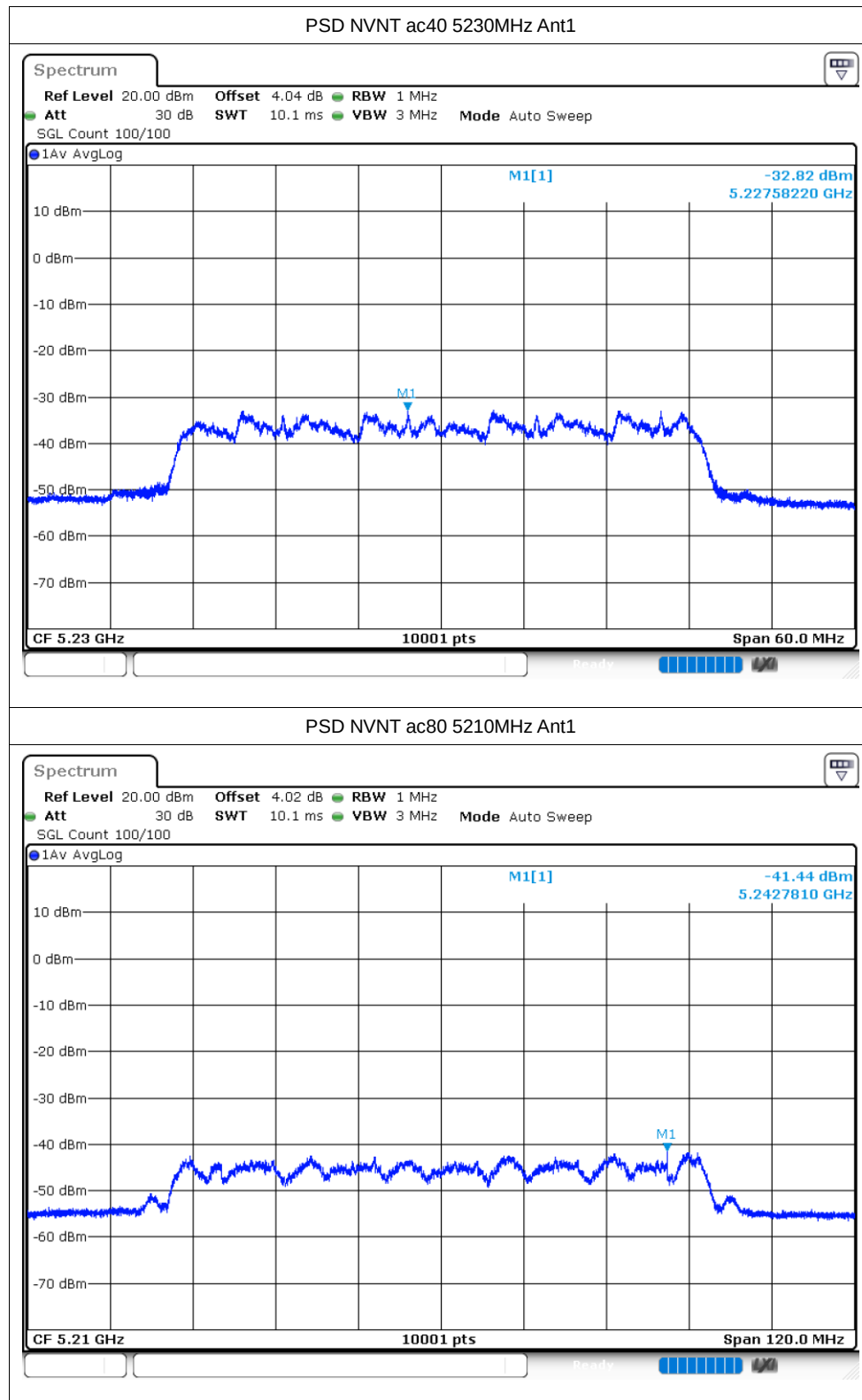












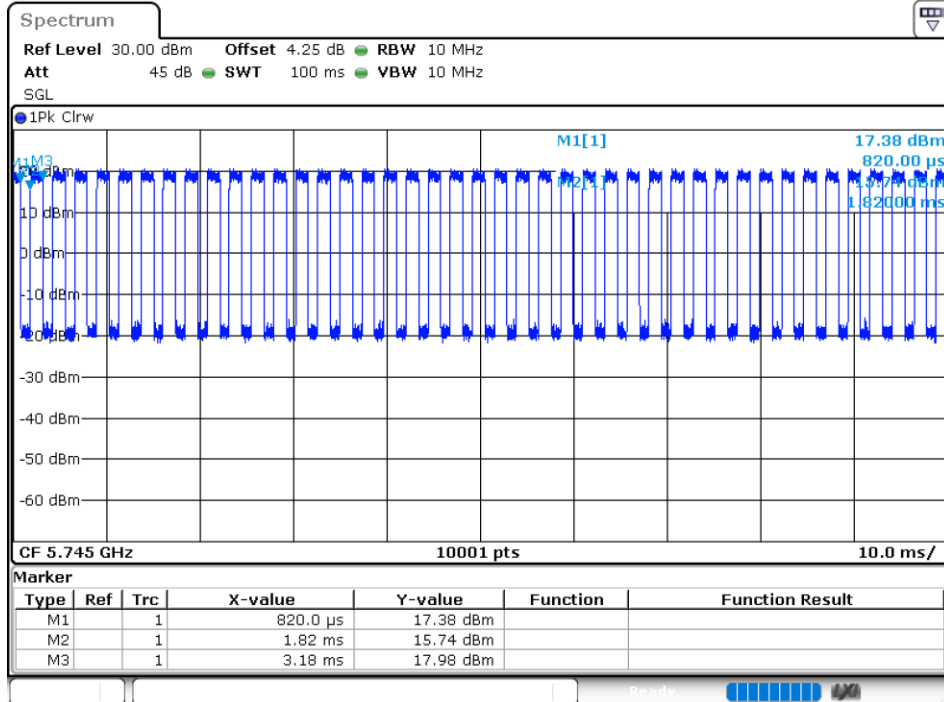
5.8G WIFI

Duty Cycle

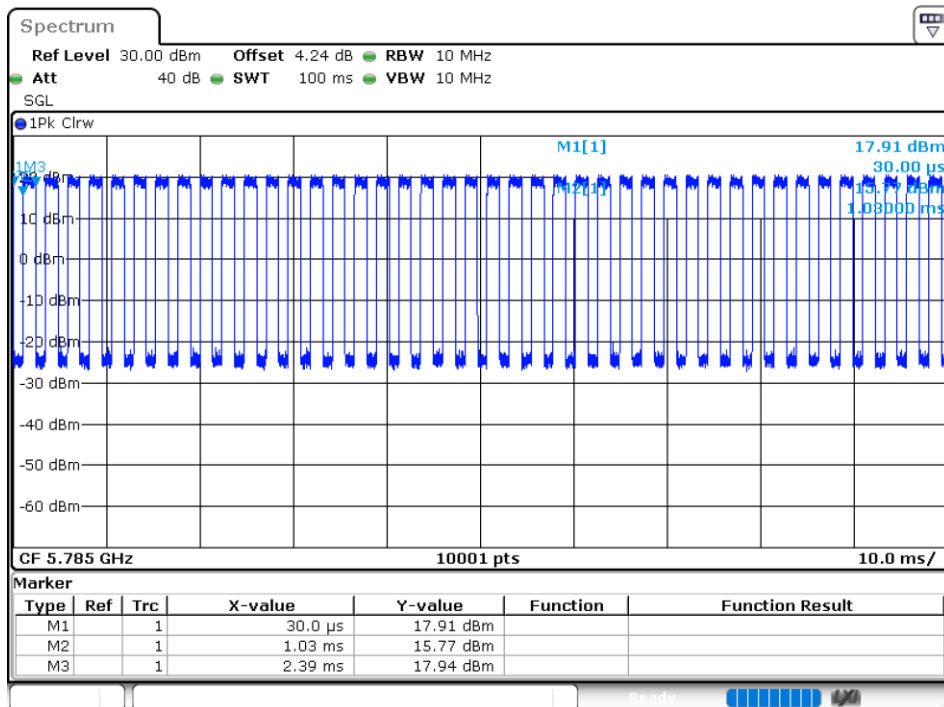
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	58.26	2.35	0.74
NVNT	a	5785	Ant1	57.57	2.4	0.74
NVNT	a	5825	Ant1	87.46	0.58	100
NVNT	n20	5745	Ant1	56.28	2.5	0.79
NVNT	n20	5785	Ant1	56.34	2.49	0.79
NVNT	n20	5825	Ant1	56.32	2.49	0.79
NVNT	n40	5755	Ant1	39.24	4.06	1.56
NVNT	n40	5795	Ant1	79.69	0.99	100
NVNT	ac20	5745	Ant1	56.29	2.5	0.78
NVNT	ac20	5785	Ant1	56.23	2.5	0.79
NVNT	ac20	5825	Ant1	56.58	2.47	0.78
NVNT	ac40	5755	Ant1	39.39	4.05	1.56
NVNT	ac40	5795	Ant1	39.44	4.04	1.59
NVNT	ac80	5775	Ant1	24.46	6.12	3.13

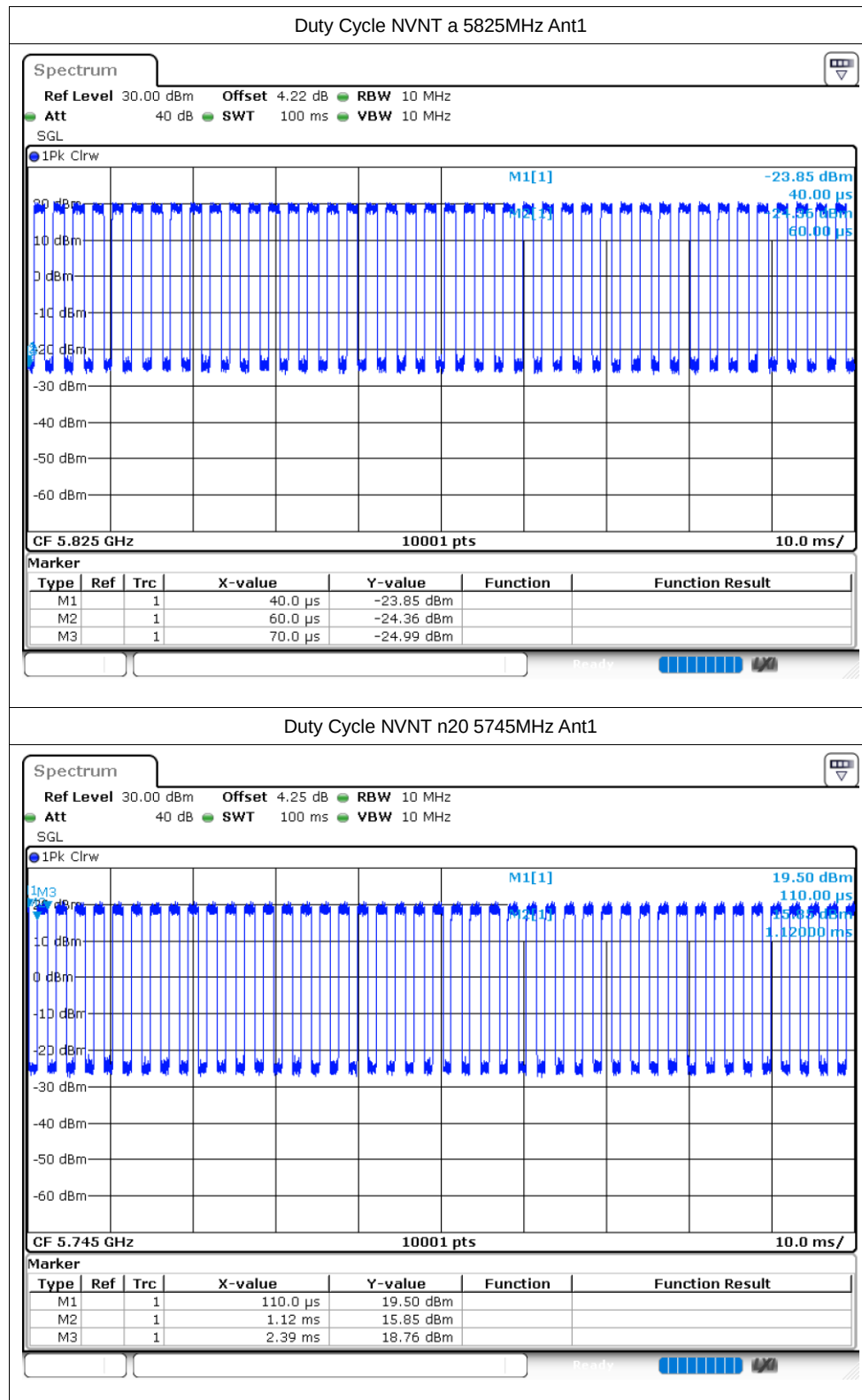
Test Graphs

Duty Cycle NVNT a 5745MHz Ant1

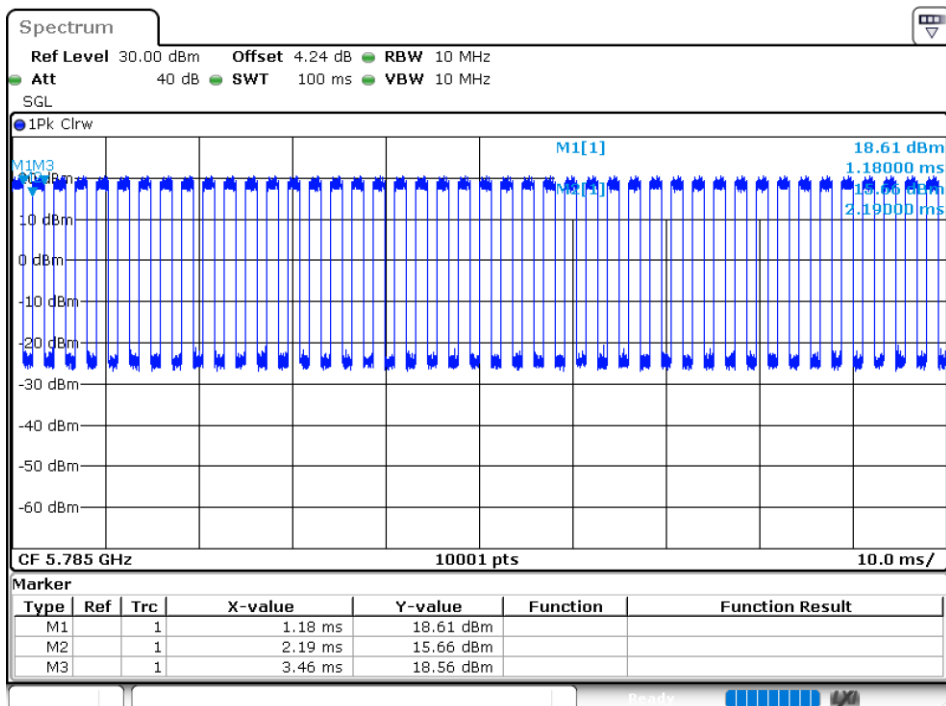


Duty Cycle NVNT a 5785MHz Ant1

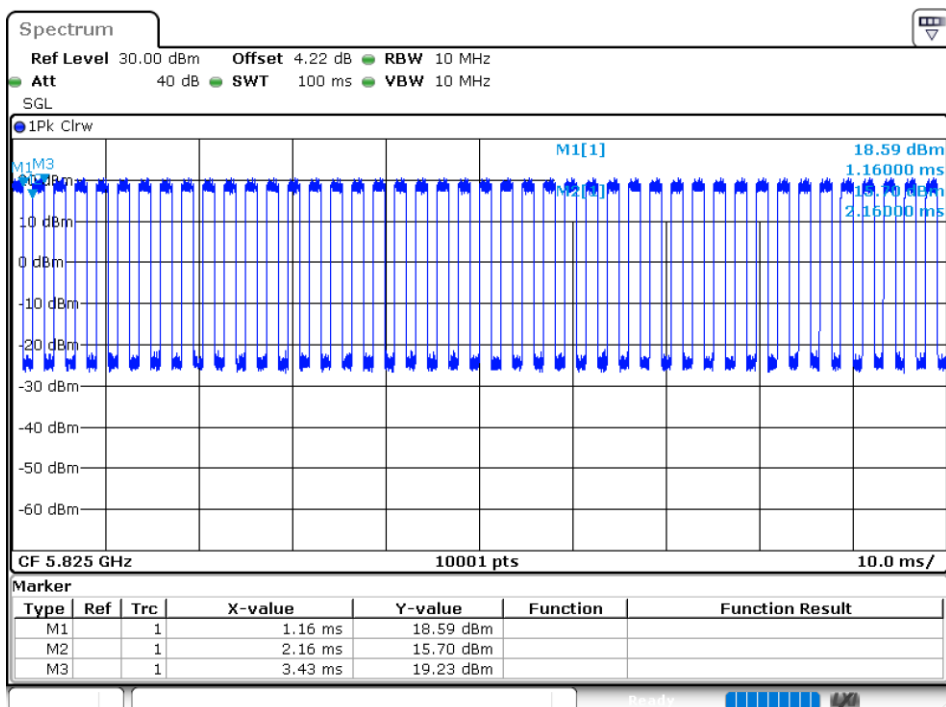




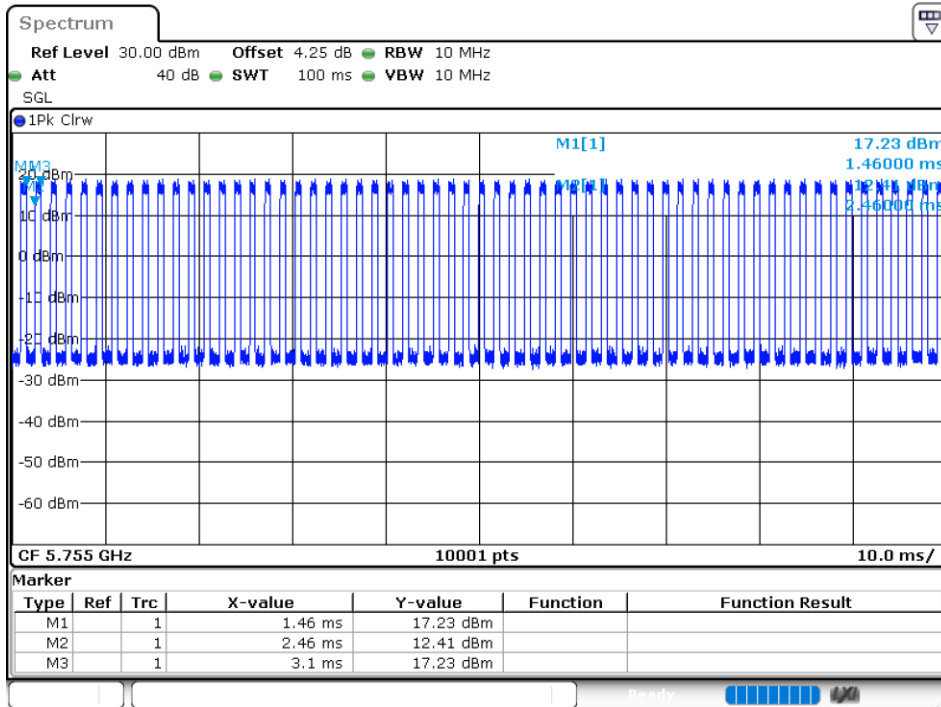
Duty Cycle NVNT n20 5785MHz Ant1



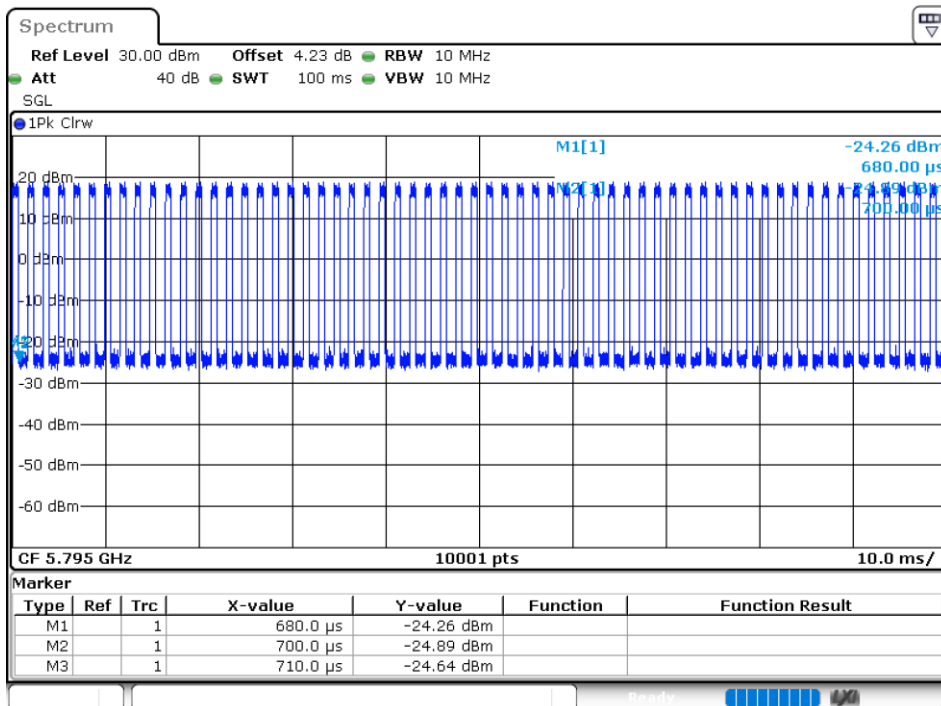
Duty Cycle NVNT n20 5825MHz Ant1



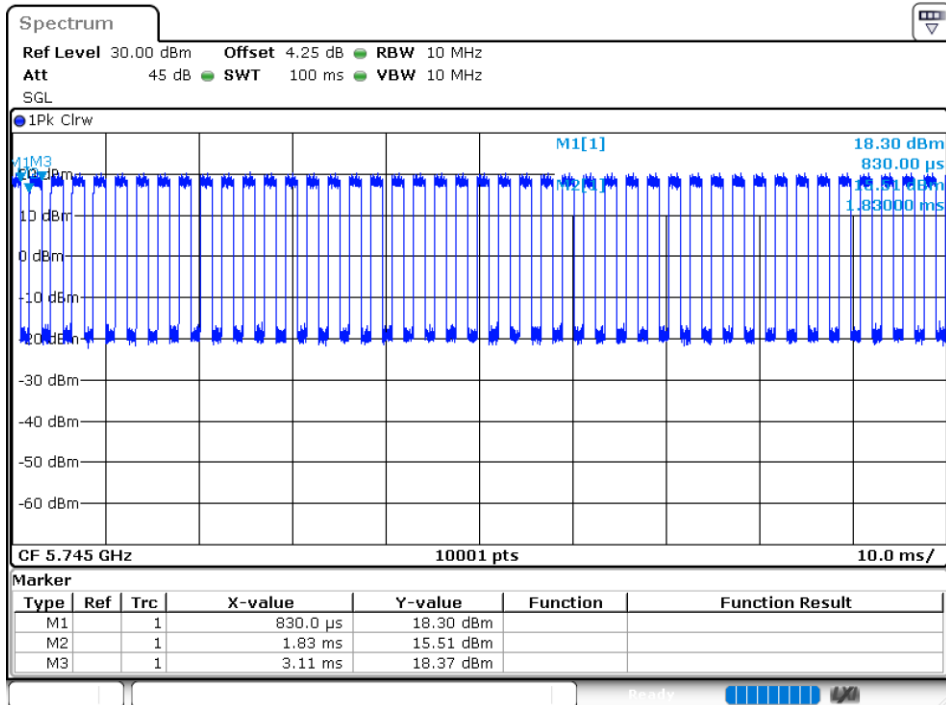
Duty Cycle NVNT n40 5755MHz Ant1



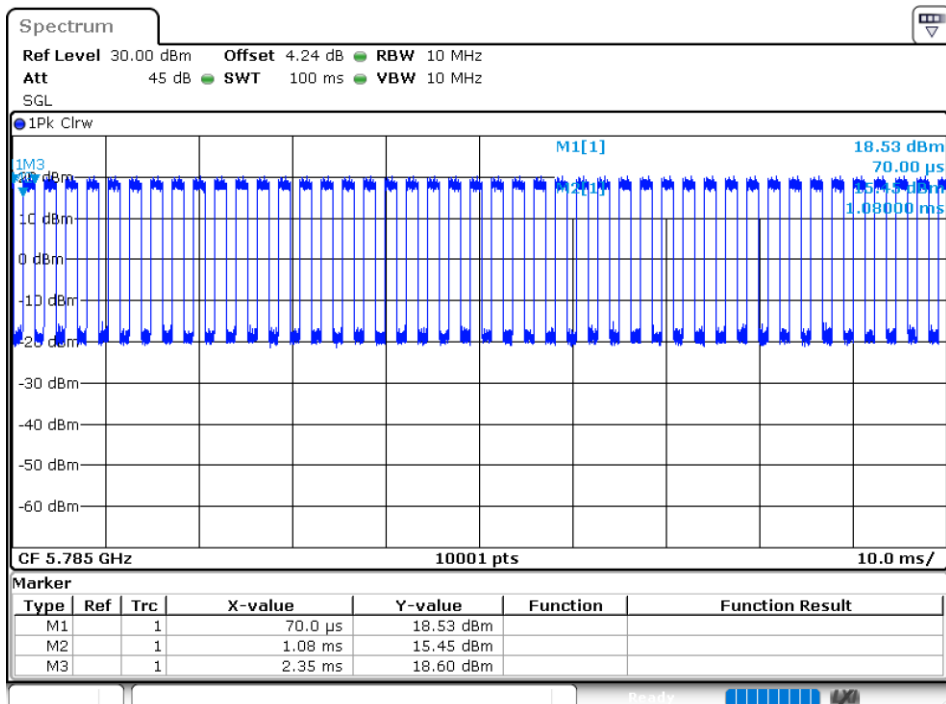
Duty Cycle NVNT n40 5795MHz Ant1



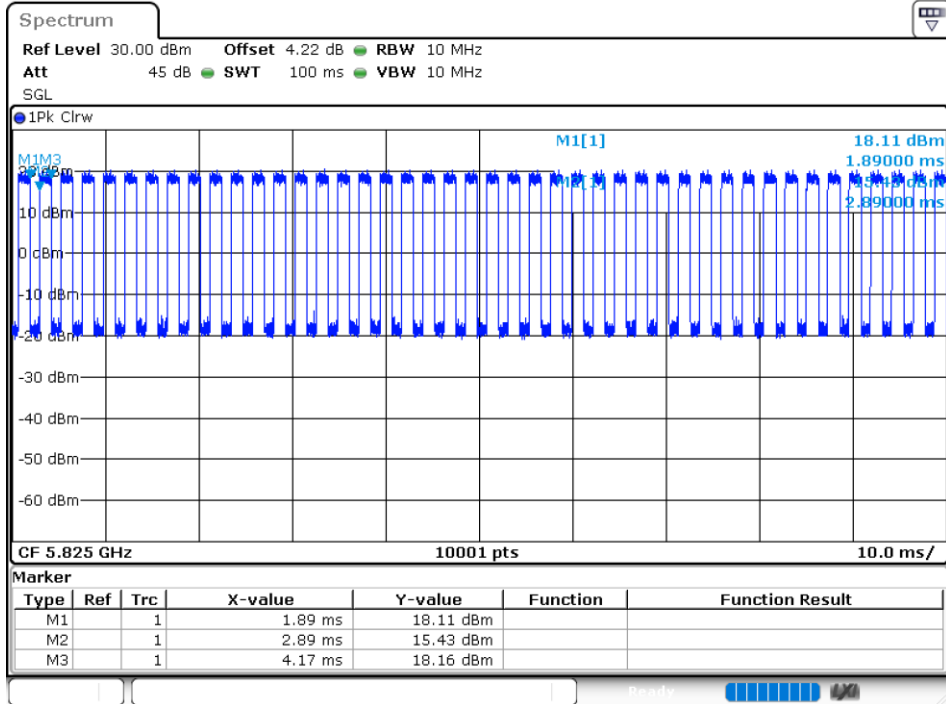
Duty Cycle NVNT ac20 5745MHz Ant1



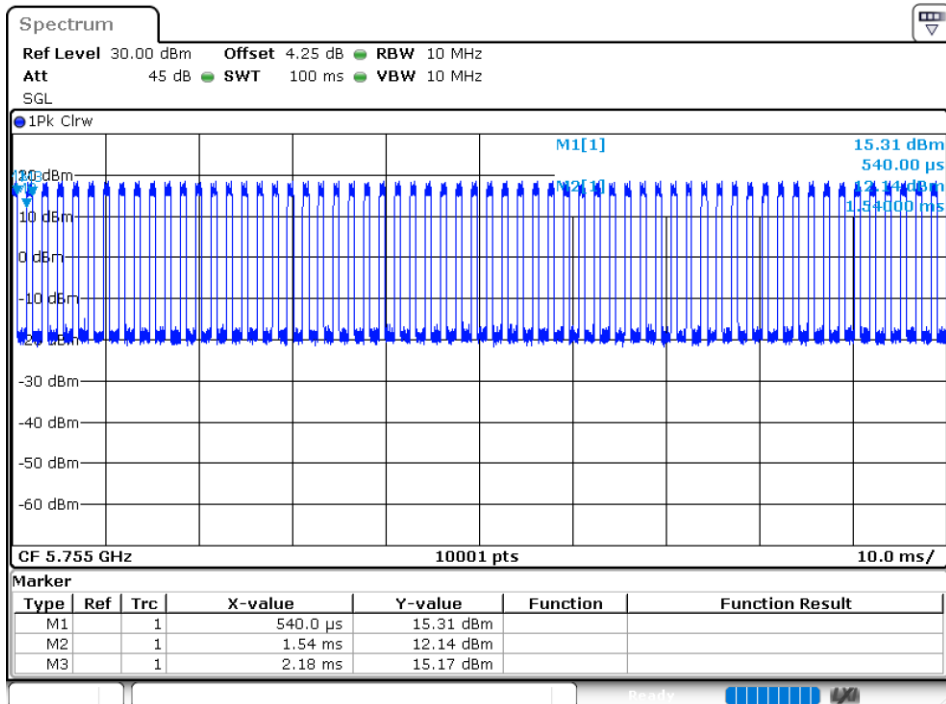
Duty Cycle NVNT ac20 5785MHz Ant1



Duty Cycle NVNT ac20 5825MHz Ant1



Duty Cycle NVNT ac40 5755MHz Ant1





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	15.32	30	Pass
NVNT	a	5785	Ant1	15.71	30	Pass
NVNT	a	5825	Ant1	15.23	30	Pass
NVNT	n20	5745	Ant1	15.31	30	Pass
NVNT	n20	5785	Ant1	15.75	30	Pass
NVNT	n20	5825	Ant1	15.04	30	Pass
NVNT	n40	5755	Ant1	15.74	30	Pass
NVNT	n40	5795	Ant1	16.29	30	Pass
NVNT	ac20	5745	Ant1	15.51	30	Pass
NVNT	ac20	5785	Ant1	15.51	30	Pass
NVNT	ac20	5825	Ant1	14.93	30	Pass
NVNT	ac40	5755	Ant1	15.86	30	Pass
NVNT	ac40	5795	Ant1	16.15	30	Pass
NVNT	ac80	5775	Ant1	16.01	30	Pass

Note: The Duty Cycle factor has already been included.

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.554	0.5	Pass
NVNT	a	5785	Ant1	16.524	0.5	Pass
NVNT	a	5825	Ant1	16.536	0.5	Pass
NVNT	n20	5745	Ant1	17.682	0.5	Pass
NVNT	n20	5785	Ant1	17.613	0.5	Pass
NVNT	n20	5825	Ant1	16.791	0.5	Pass
NVNT	n40	5755	Ant1	35.568	0.5	Pass
NVNT	n40	5795	Ant1	35.316	0.5	Pass
NVNT	ac20	5745	Ant1	17.637	0.5	Pass
NVNT	ac20	5785	Ant1	17.655	0.5	Pass
NVNT	ac20	5825	Ant1	17.568	0.5	Pass
NVNT	ac40	5755	Ant1	36.33	0.5	Pass
NVNT	ac40	5795	Ant1	36.036	0.5	Pass
NVNT	ac80	5775	Ant1	75.18	0.5	Pass