

Test data attachment for WLAN 5.2G

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8dBi Antenna

Duty Cycle

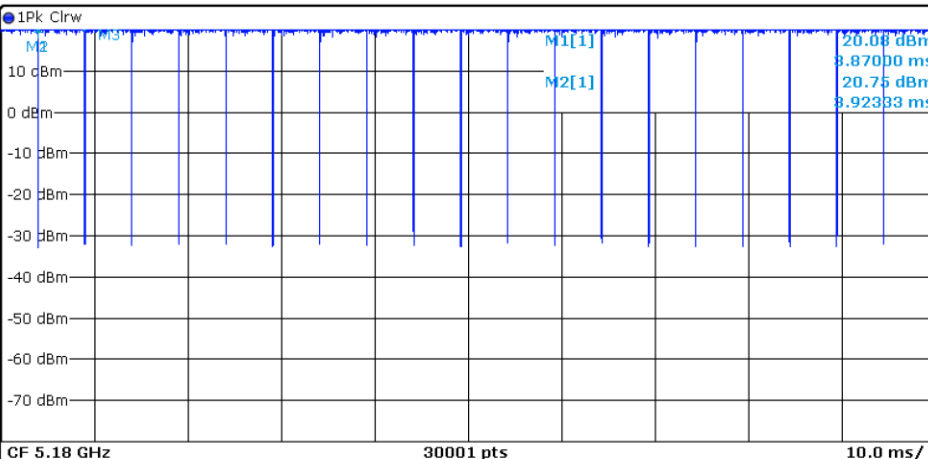
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ac20	5180	Ant1	98.86	0.05	0.2
NVNT	ac20	5200	Ant1	98.96	0.05	0.2
NVNT	ac20	5240	Ant1	98.96	0.05	0.2
NVNT	ac20	5180	Ant2	98.9	0.05	0.2
NVNT	ac20	5200	Ant2	98.92	0.05	0.2
NVNT	ac20	5240	Ant2	98.83	0.05	0.2
NVNT	ac40	5190	Ant1	97.8	0.1	0.41
NVNT	ac40	5230	Ant1	97.8	0.1	0.41
NVNT	ac40	5190	Ant2	97.81	0.1	0.41
NVNT	ac40	5230	Ant2	97.75	0.1	0.41
NVNT	ac80	5210	Ant1	95.61	0.19	0.88
NVNT	ac80	5210	Ant2	95.49	0.2	0.88
NVNT	ac160	5250	Ant1	91.98	0.36	1.69
NVNT	ac160	5250	Ant2	91.86	0.37	1.7
NVNT	ax160	5250	Ant1	91.18	0.4	1.88
NVNT	ax160	5250	Ant2	90.96	0.41	1.89
NVNT	ax20	5180	Ant1	98.63	0.06	0.25
NVNT	ax20	5200	Ant1	98.58	0.06	0.25
NVNT	ax20	5240	Ant1	98.73	0.06	0.25
NVNT	ax20	5180	Ant2	98.72	0.06	0.25
NVNT	ax20	5200	Ant2	98.62	0.06	0.25
NVNT	ax20	5240	Ant2	98.65	0.06	0.25
NVNT	ax40	5190	Ant1	97.49	0.11	0.49
NVNT	ax40	5230	Ant1	97.46	0.11	0.49
NVNT	ax40	5190	Ant2	97.41	0.11	0.49
NVNT	ax40	5230	Ant2	97.64	0.1	0.49
NVNT	ax80	5210	Ant1	94.98	0.22	1
NVNT	ax80	5210	Ant2	95.02	0.22	1

Test Graphs

Duty Cycle NVNT ac20 5180MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 9.81 dB RBW 10 MHz
Att 30 dB SWT 100 ms VBW 10 MHz
SGL

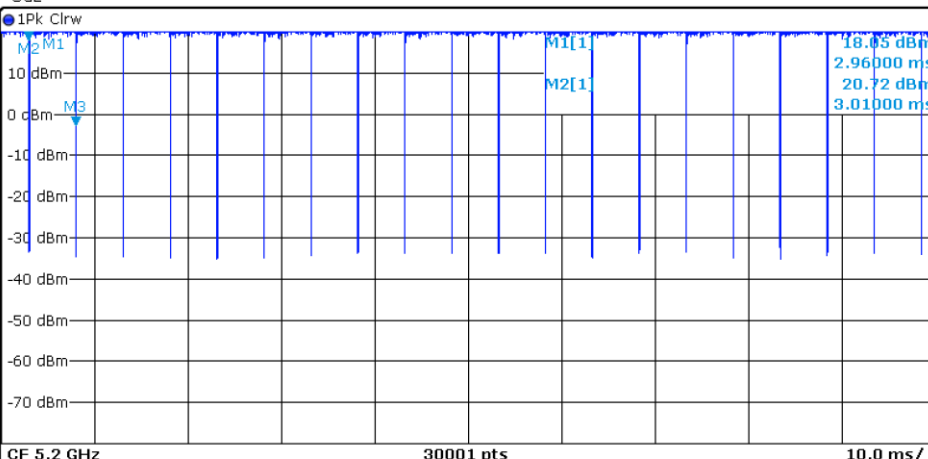


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	3.87 ms	20.08 dBm		
M2		1	3.92333 ms	20.75 dBm		
M3		1	8.89 ms	19.71 dBm		

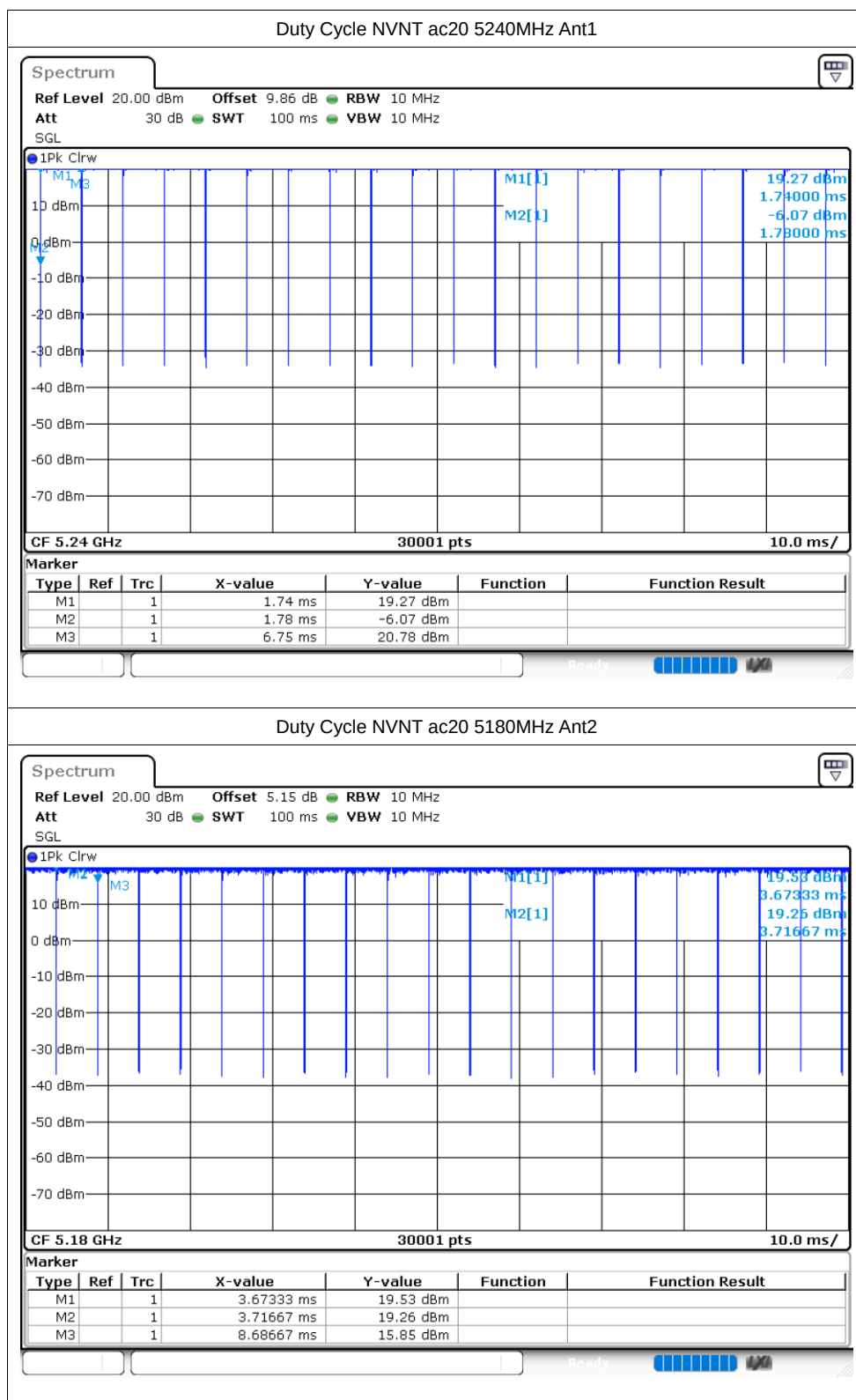
Duty Cycle NVNT ac20 5200MHz Ant1

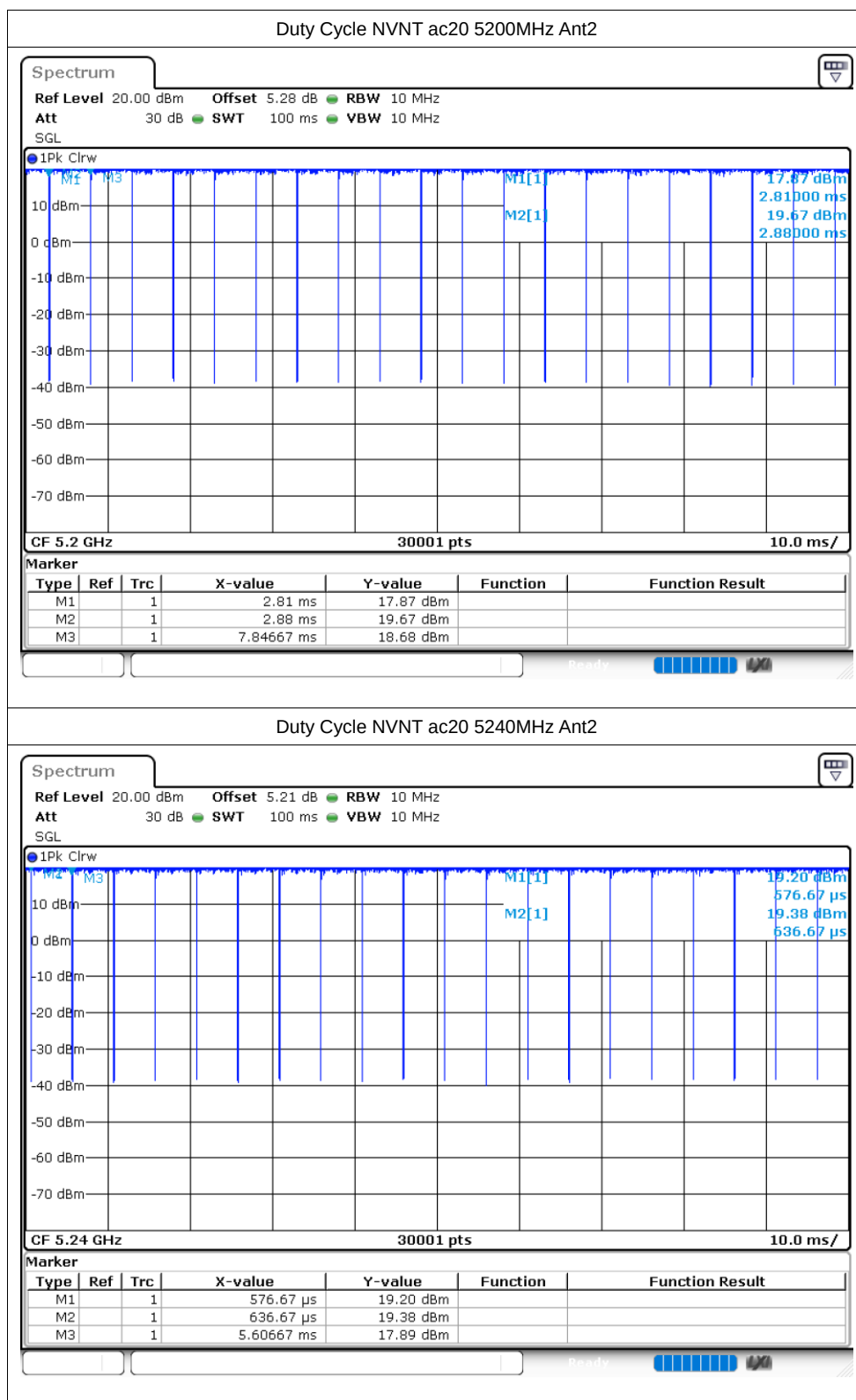
Spectrum

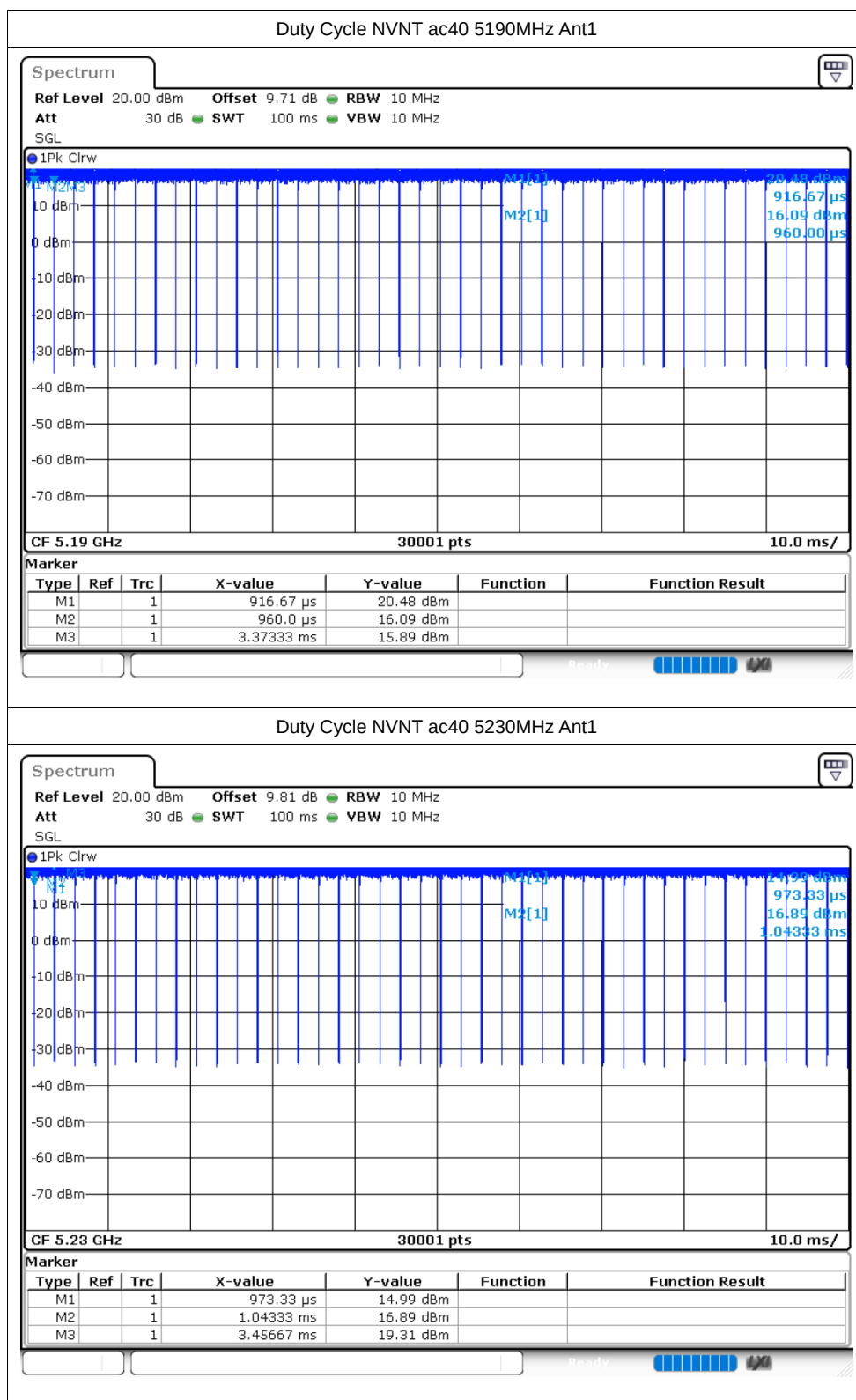
Ref Level 20.00 dBm Offset 9.67 dB RBW 10 MHz
Att 30 dB SWT 100 ms VBW 10 MHz
SGL

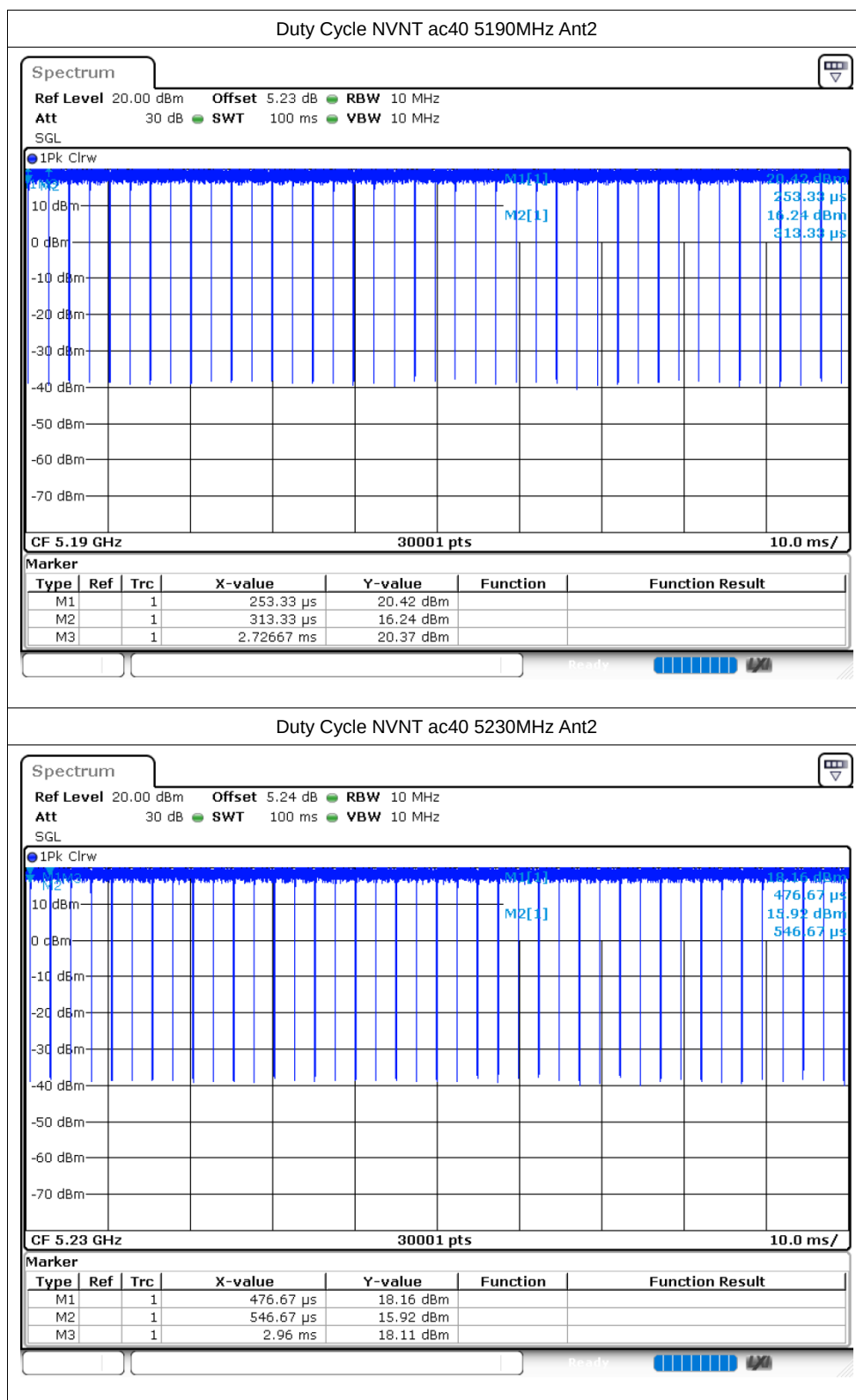


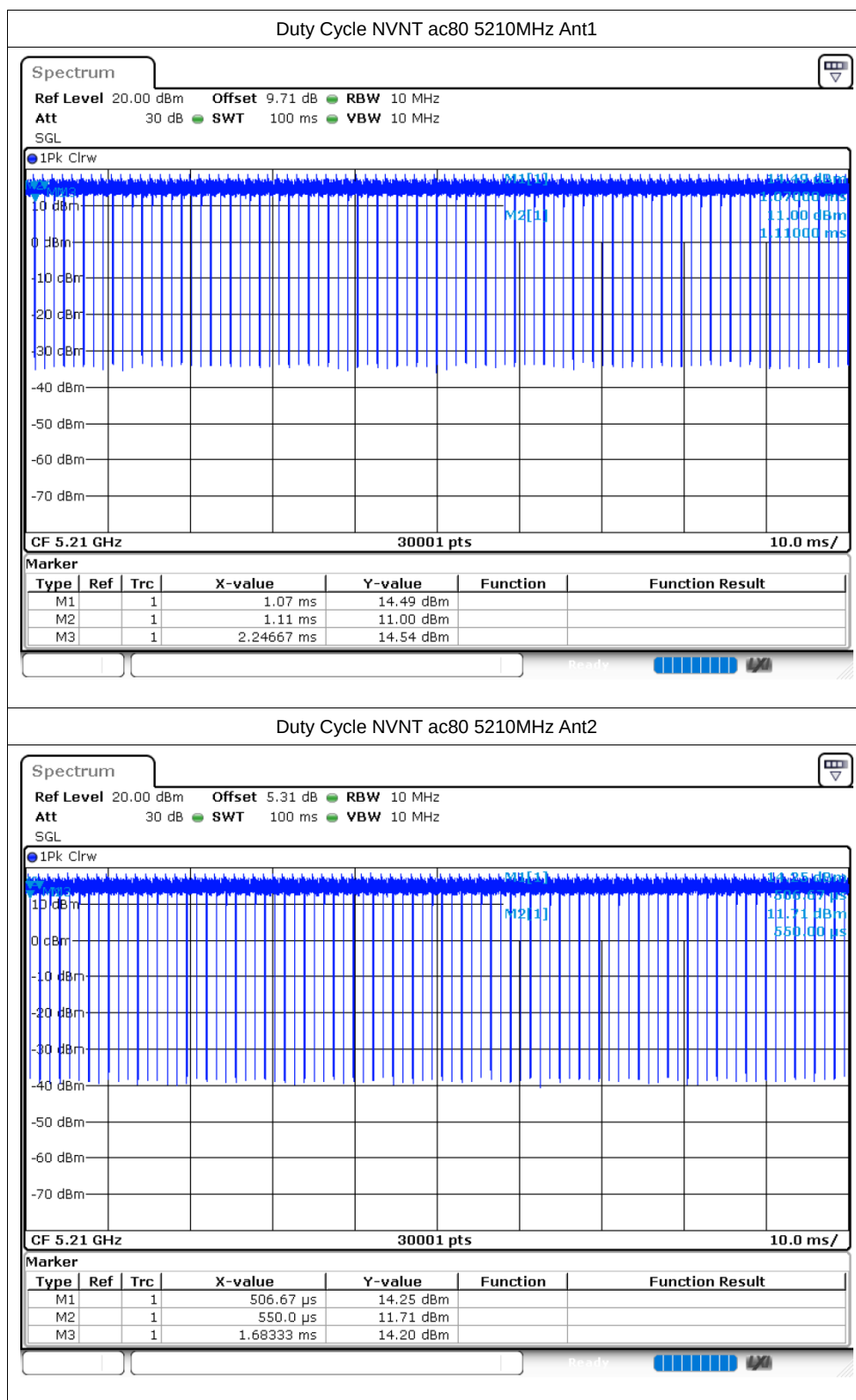
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.96 ms	18.05 dBm		
M2		1	3.01 ms	20.72 dBm		
M3		1	7.98 ms	-2.57 dBm		

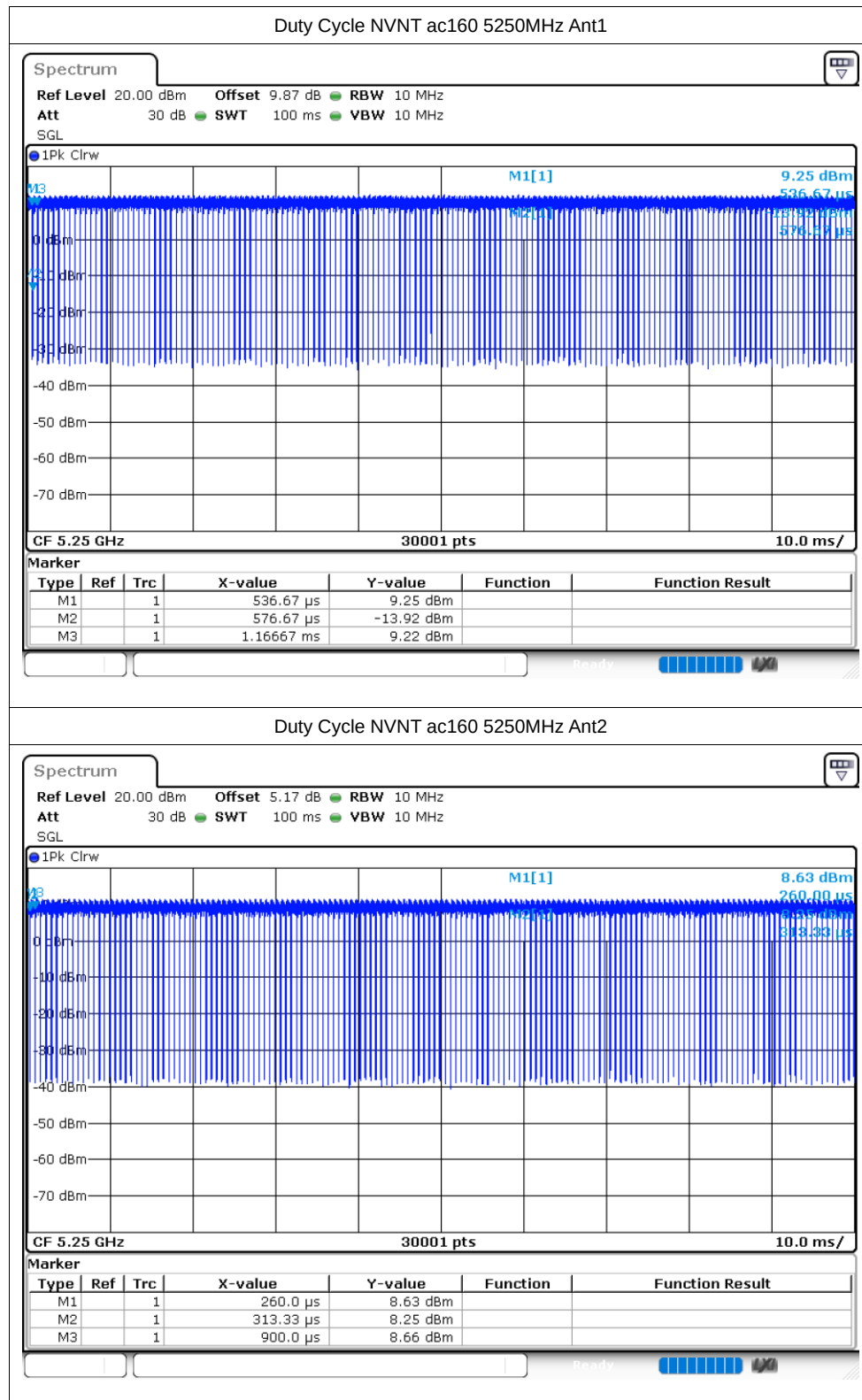


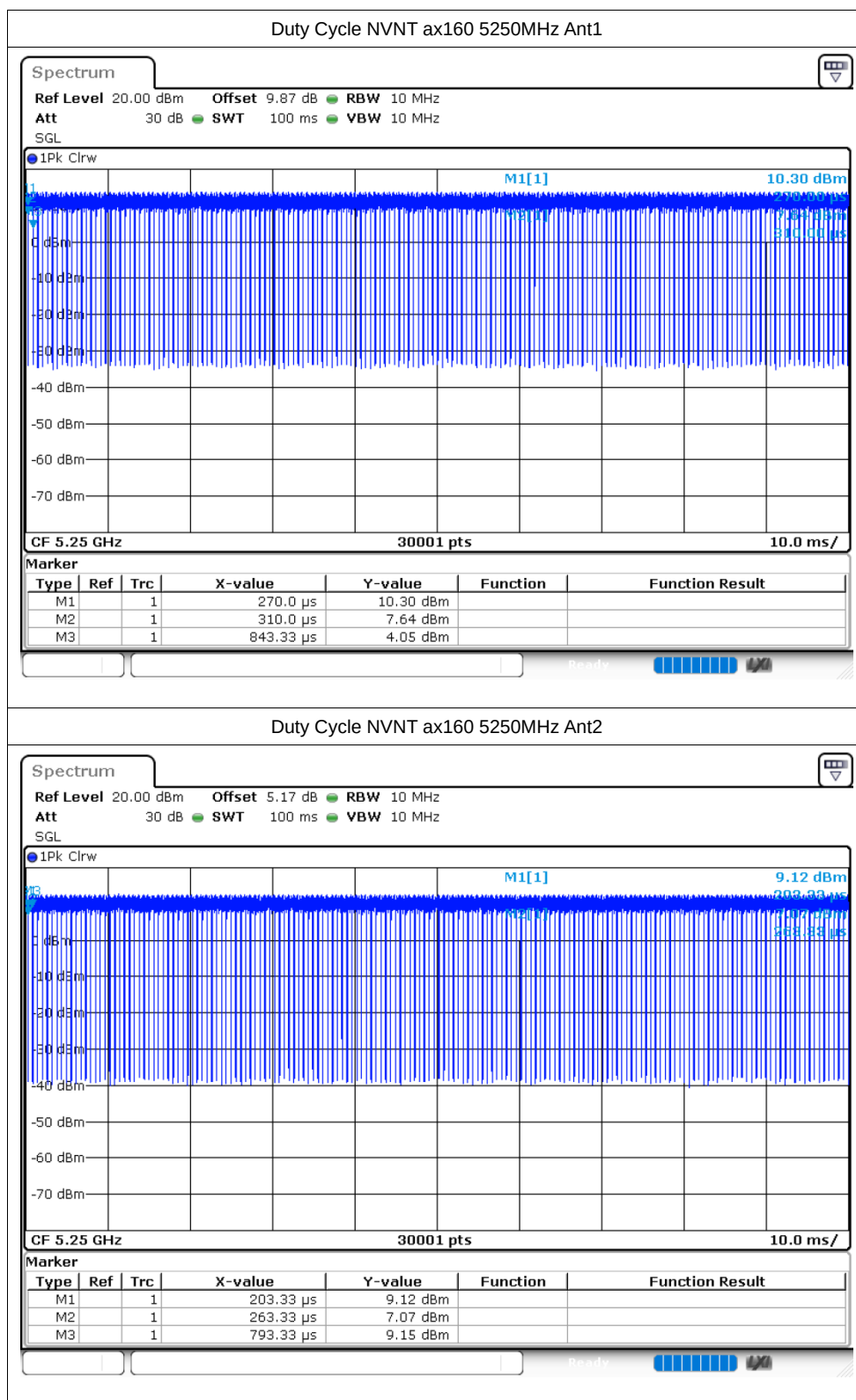


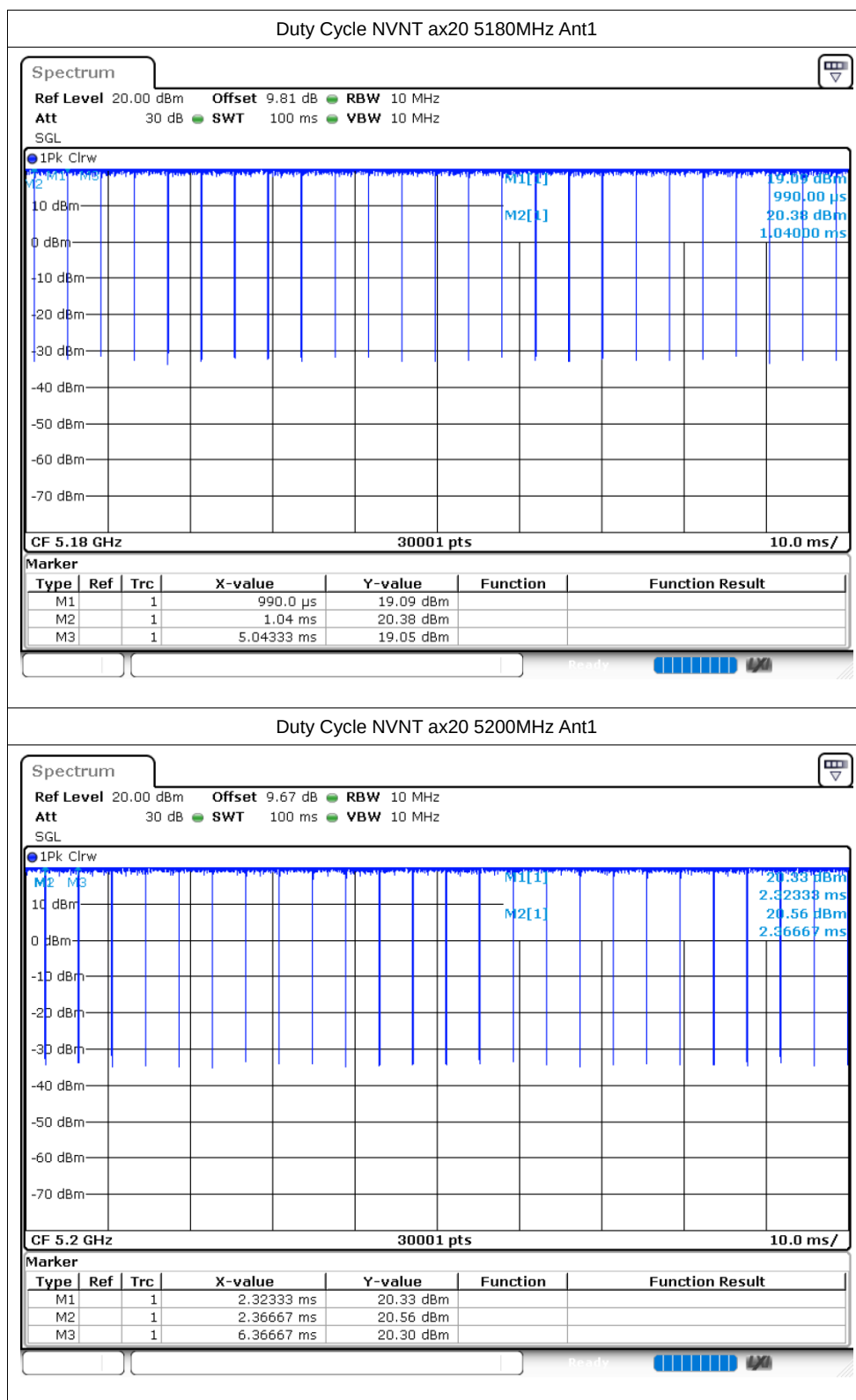




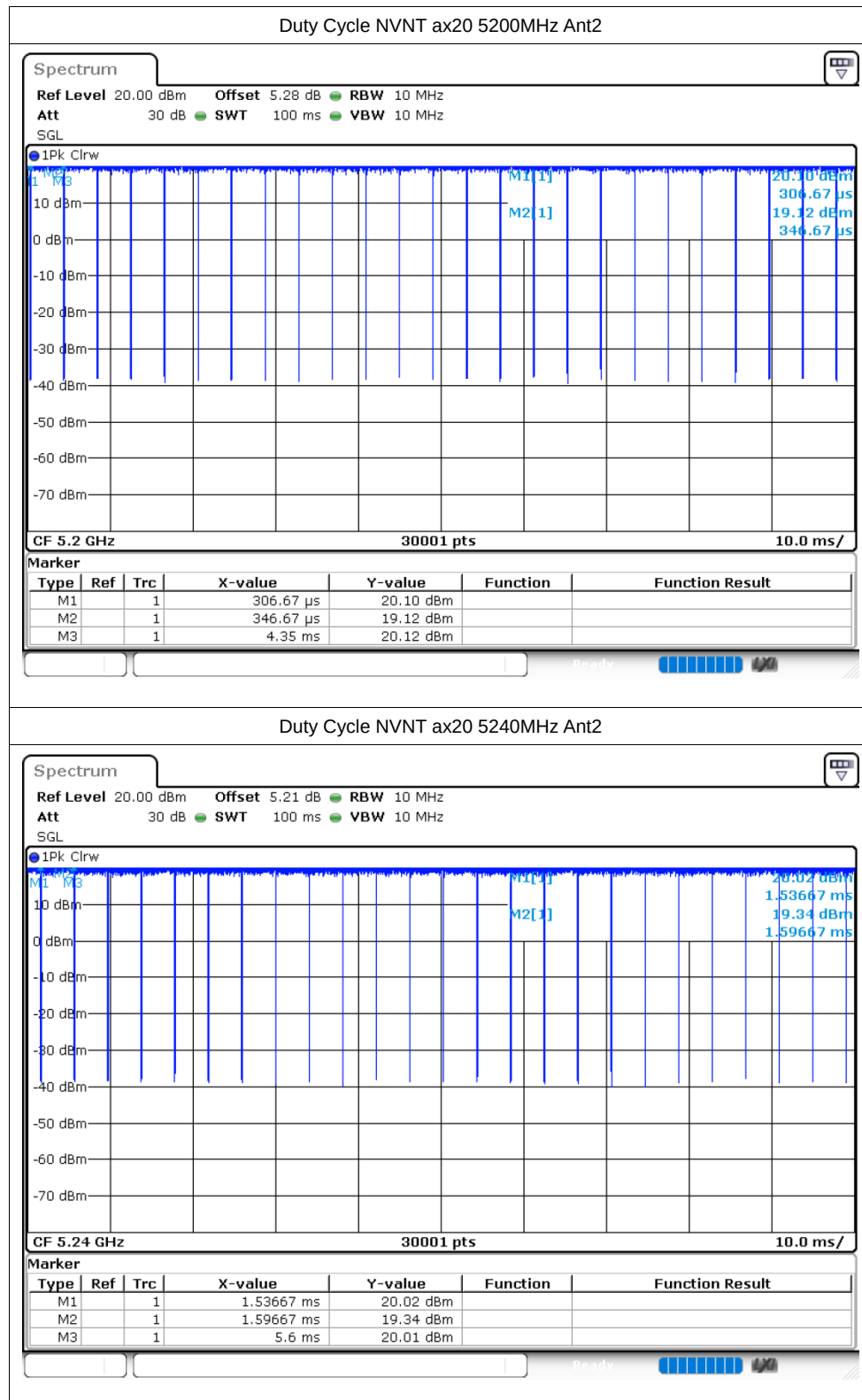


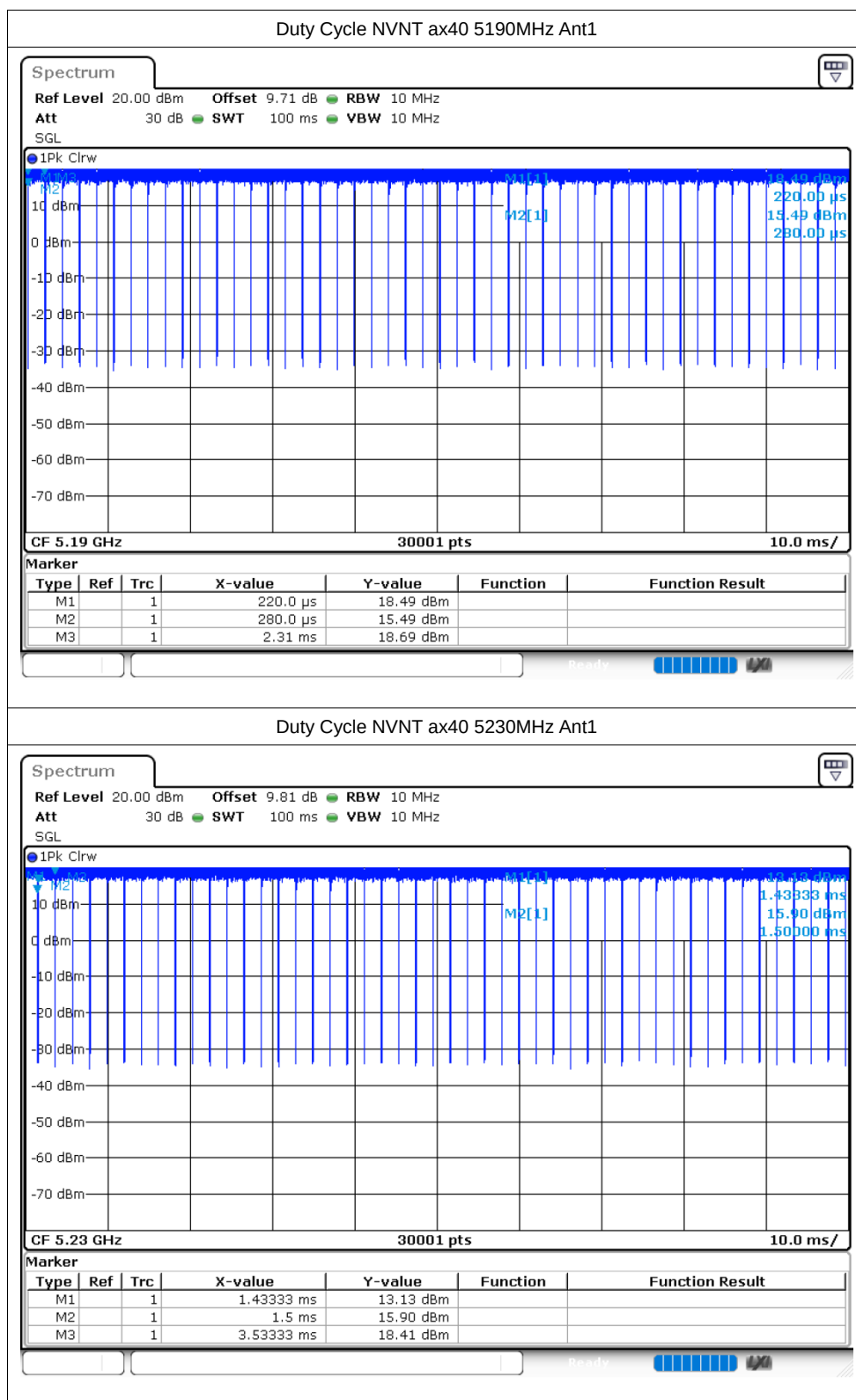


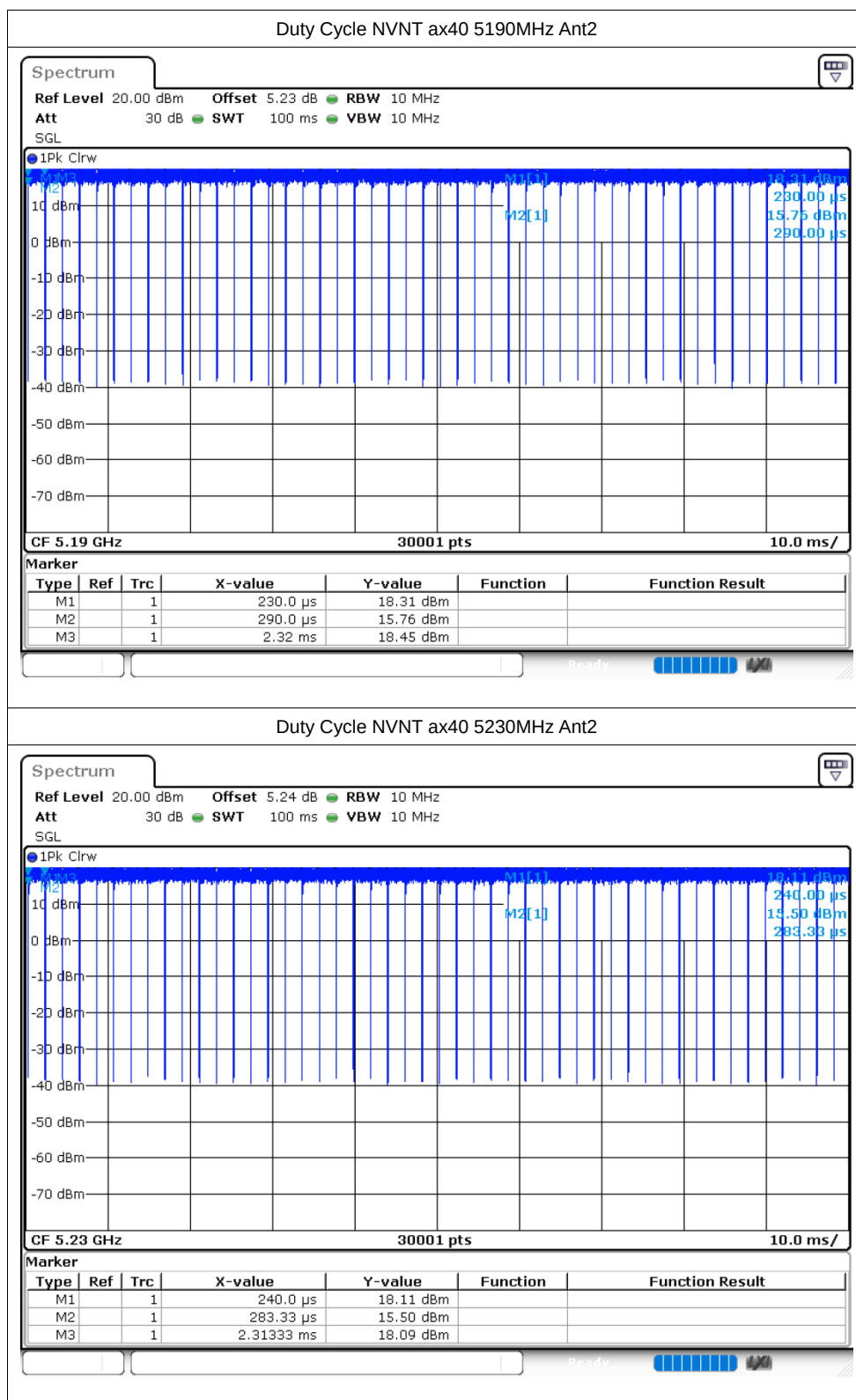


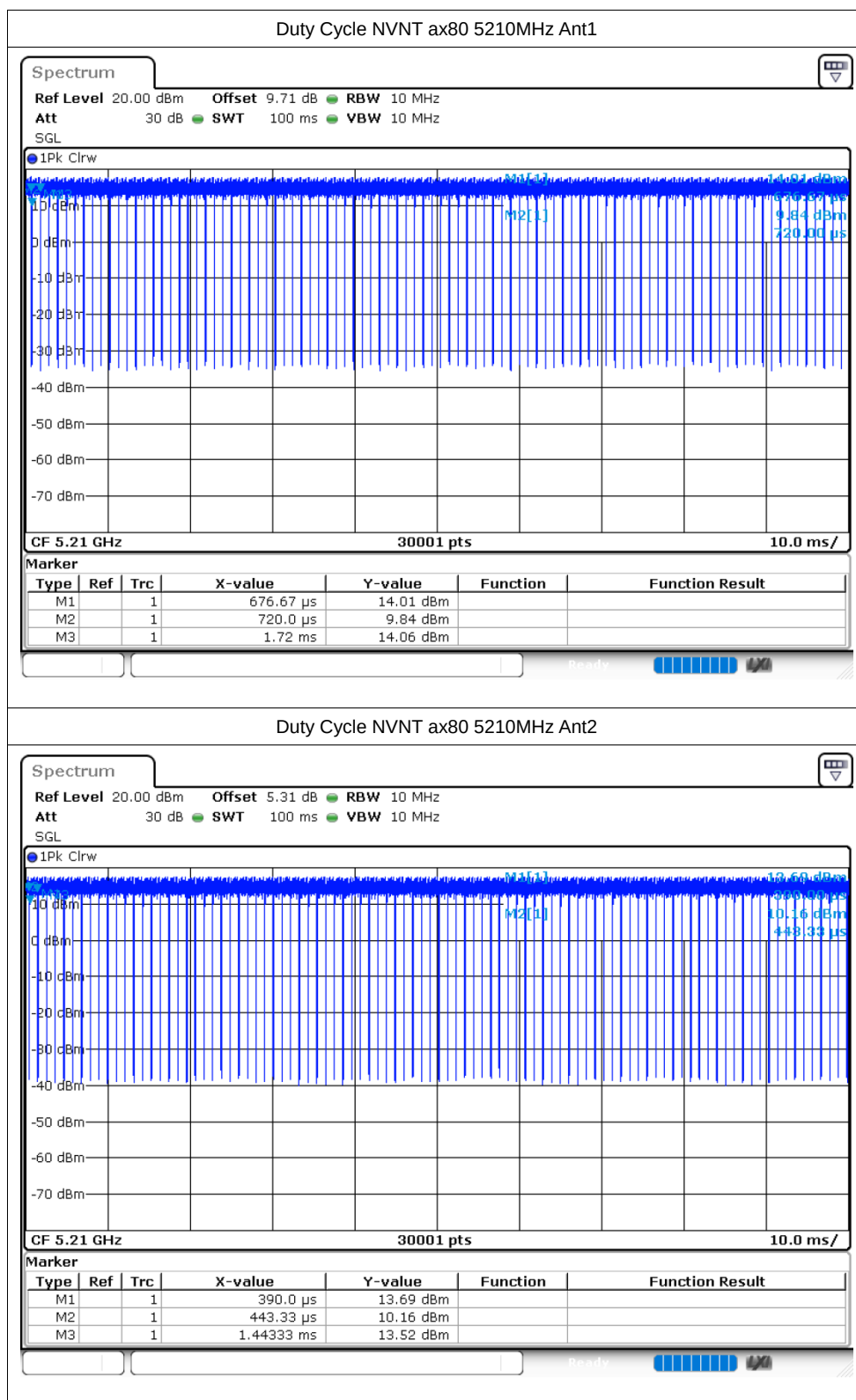












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant1	10.55	0.05	10.6	13.73	28	Pass
NVNT	ac20	5180	Ant2	10.78	0.05	10.83			
NVNT	ac20	5200	Ant1	11.01	0.05	11.06	14.11	28	Pass
NVNT	ac20	5200	Ant2	11.1	0.05	11.15			
NVNT	ac20	5240	Ant1	11.37	0.05	11.42	14.18	28	Pass
NVNT	ac20	5240	Ant2	10.86	0.05	10.91			
NVNT	ac40	5190	Ant1	11.61	0.1	11.71	14.71	28	Pass
NVNT	ac40	5190	Ant2	11.59	0.1	11.69			
NVNT	ac40	5230	Ant1	11.93	0.1	12.03	14.88	28	Pass
NVNT	ac40	5230	Ant2	11.6	0.1	11.7			
NVNT	ac80	5210	Ant1	11.06	0.19	11.25	14.33	28	Pass
NVNT	ac80	5210	Ant2	11.19	0.2	11.39			
NVNT	ac160	5250	Ant1	11.48	0.36	11.84	14.77	28	Pass
NVNT	ac160	5250	Ant2	11.3	0.37	11.67			
NVNT	ax160	5250	Ant1	11.64	0.4	12.04	14.89	28	Pass
NVNT	ax160	5250	Ant2	11.31	0.41	11.72			
NVNT	ax20	5180	Ant1	10.6	0.06	10.66	13.86	28	Pass
NVNT	ax20	5180	Ant2	10.97	0.06	11.03			
NVNT	ax20	5200	Ant1	11.08	0.06	11.14	14.28	28	Pass
NVNT	ax20	5200	Ant2	11.33	0.06	11.39			
NVNT	ax20	5240	Ant1	11.46	0.06	11.52	14.32	28	Pass
NVNT	ax20	5240	Ant2	11.02	0.06	11.08			
NVNT	ax40	5190	Ant1	11.62	0.11	11.73	14.71	28	Pass
NVNT	ax40	5190	Ant2	11.55	0.11	11.66			
NVNT	ax40	5230	Ant1	11.7	0.11	11.81	14.79	28	Pass
NVNT	ax40	5230	Ant2	11.65	0.1	11.75			
NVNT	ax80	5210	Ant1	11.12	0.22	11.34	14.32	28	Pass
NVNT	ax80	5210	Ant2	11.05	0.22	11.27			

-26dB Bandwidth

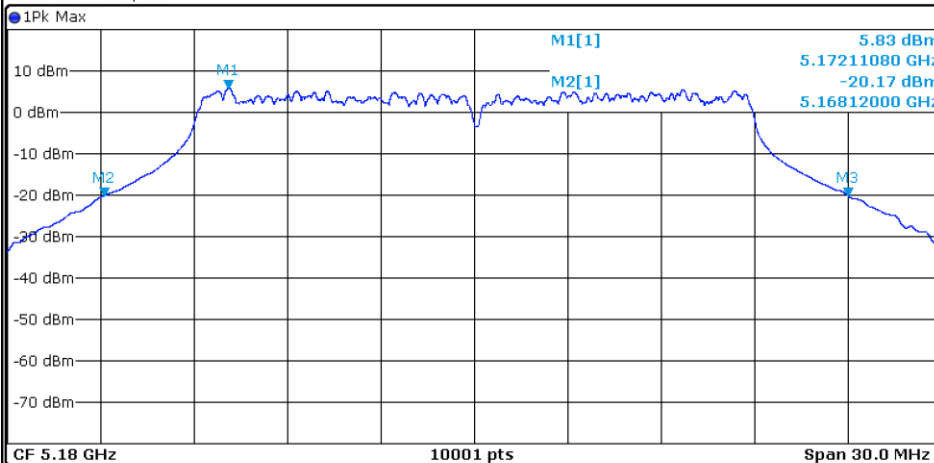
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	ac20	5180	Ant1	23.883
NVNT	ac20	5200	Ant1	23.292
NVNT	ac20	5240	Ant1	23.013
NVNT	ac20	5180	Ant2	22.353
NVNT	ac20	5200	Ant2	23.319
NVNT	ac20	5240	Ant2	23.508
NVNT	ac40	5190	Ant1	41.082
NVNT	ac40	5230	Ant1	40.788
NVNT	ac40	5190	Ant2	41.178
NVNT	ac40	5230	Ant2	40.878
NVNT	ac80	5210	Ant1	89.088
NVNT	ac80	5210	Ant2	88.584
NVNT	ac160	5250	Ant1	167.304
NVNT	ac160	5250	Ant2	168.408
NVNT	ax160	5250	Ant1	166.464
NVNT	ax160	5250	Ant2	166.392
NVNT	ax20	5180	Ant1	23.208
NVNT	ax20	5200	Ant1	23.523
NVNT	ax20	5240	Ant1	22.863
NVNT	ax20	5180	Ant2	21.456
NVNT	ax20	5200	Ant2	22.32
NVNT	ax20	5240	Ant2	22.617
NVNT	ax40	5190	Ant1	42.036
NVNT	ax40	5230	Ant1	41.316
NVNT	ax40	5190	Ant2	41.316
NVNT	ax40	5230	Ant2	40.584
NVNT	ax80	5210	Ant1	87.06
NVNT	ax80	5210	Ant2	86.88

Test Graphs

-26dB Bandwidth NVNT ac20 5180MHz Ant1

Spectrum

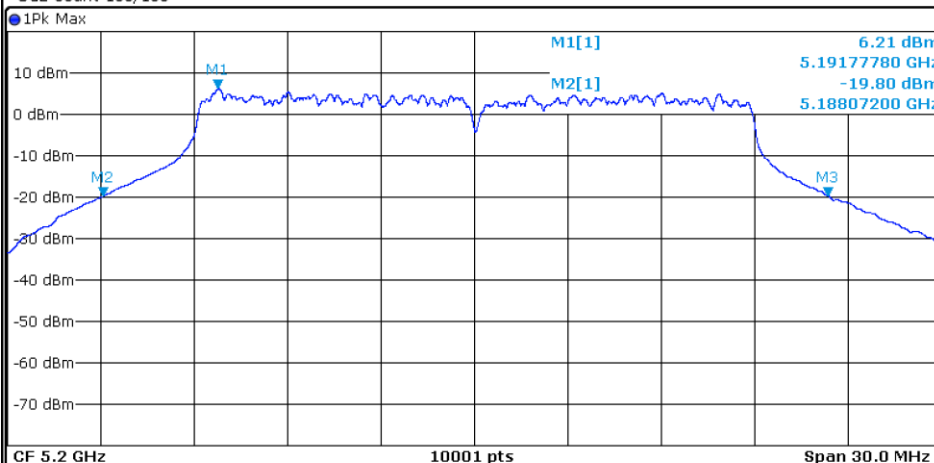
Ref Level 20.00 dBm Offset 9.81 dB RBW 200 kHz
Att 30 dB SWT 37.8 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100



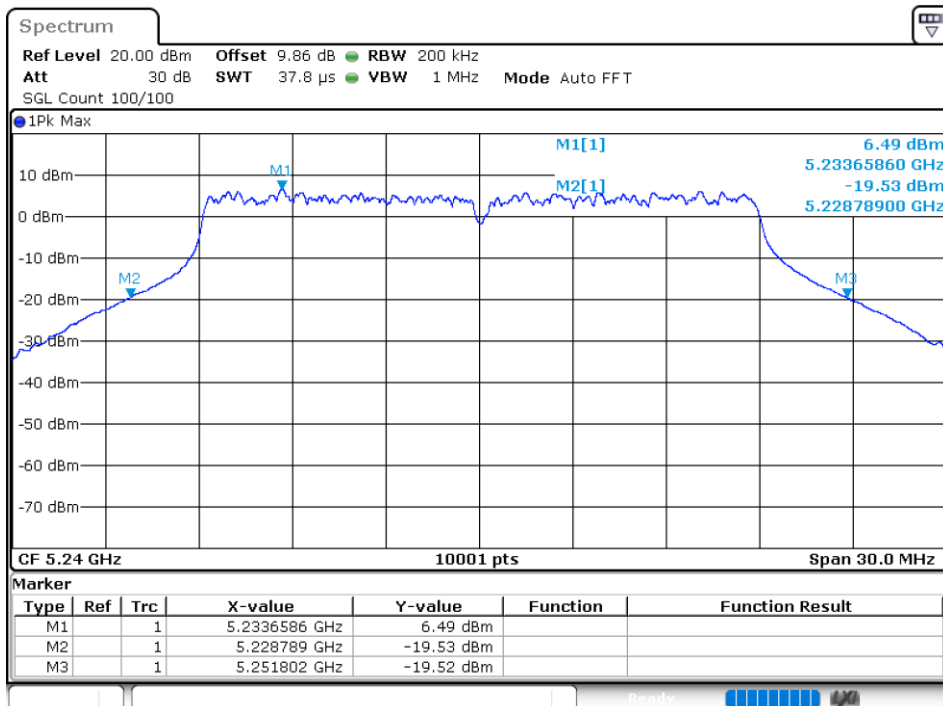
-26dB Bandwidth NVNT ac20 5200MHz Ant1

Spectrum

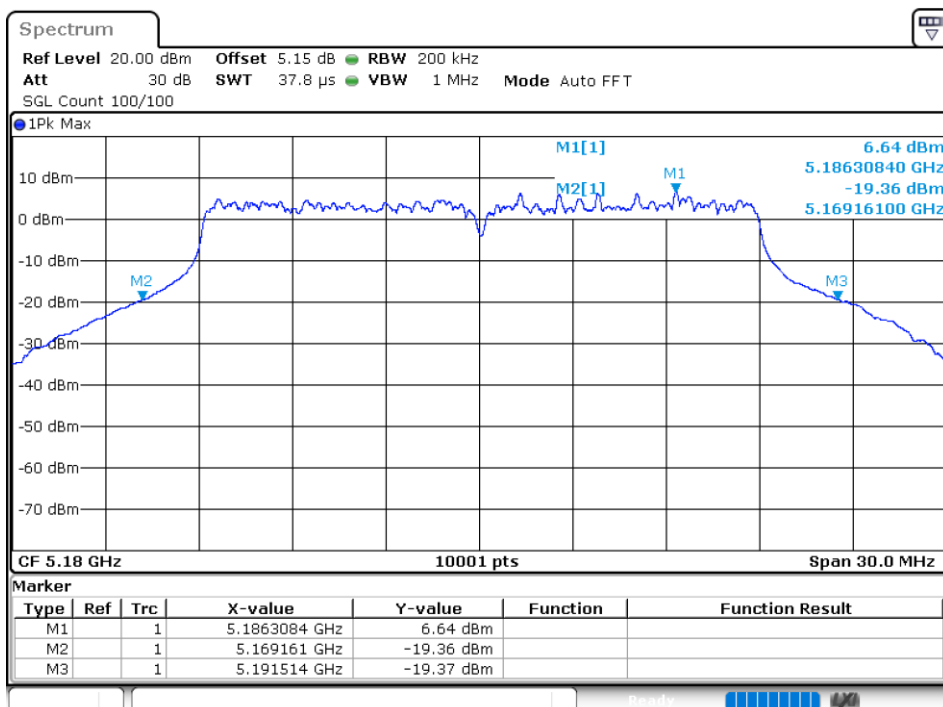
Ref Level 20.00 dBm Offset 9.67 dB RBW 200 kHz
Att 30 dB SWT 37.8 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100



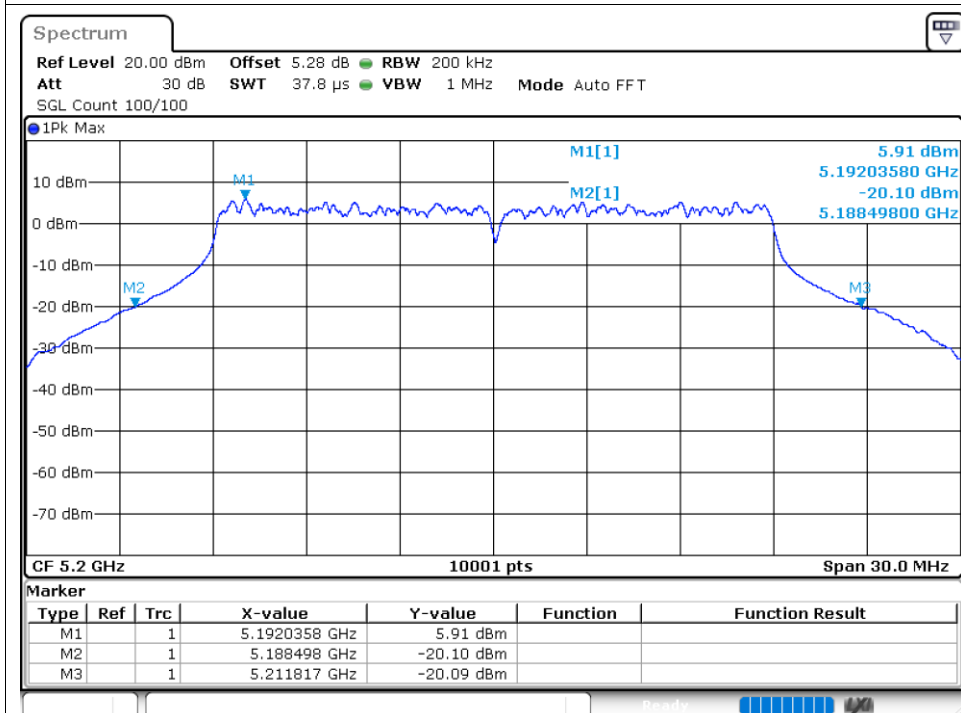
-26dB Bandwidth NVNT ac20 5240MHz Ant1



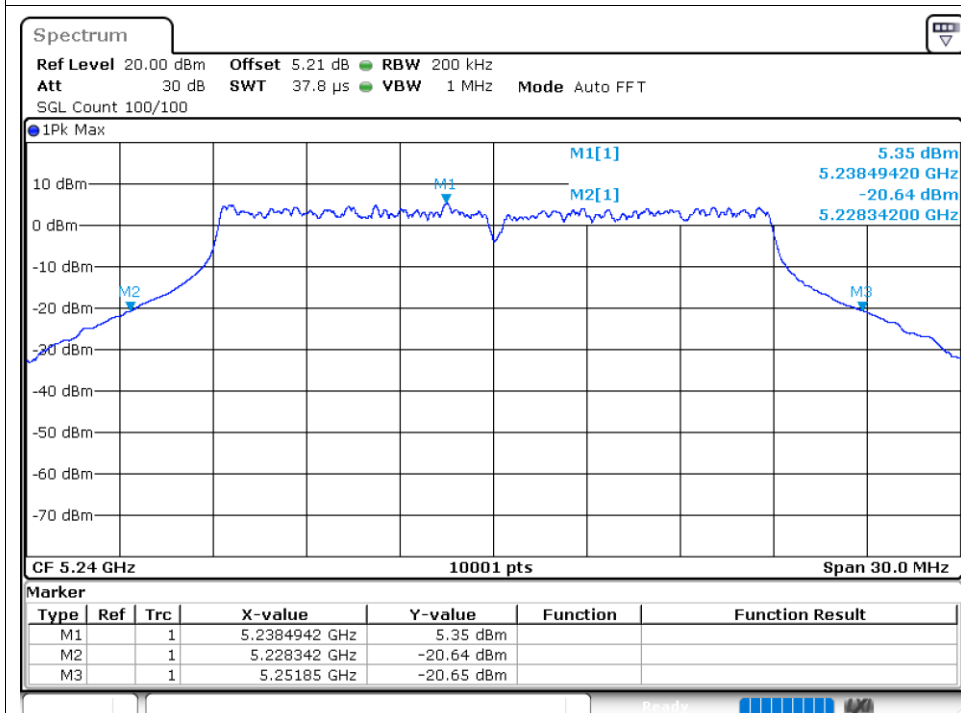
-26dB Bandwidth NVNT ac20 5180MHz Ant2

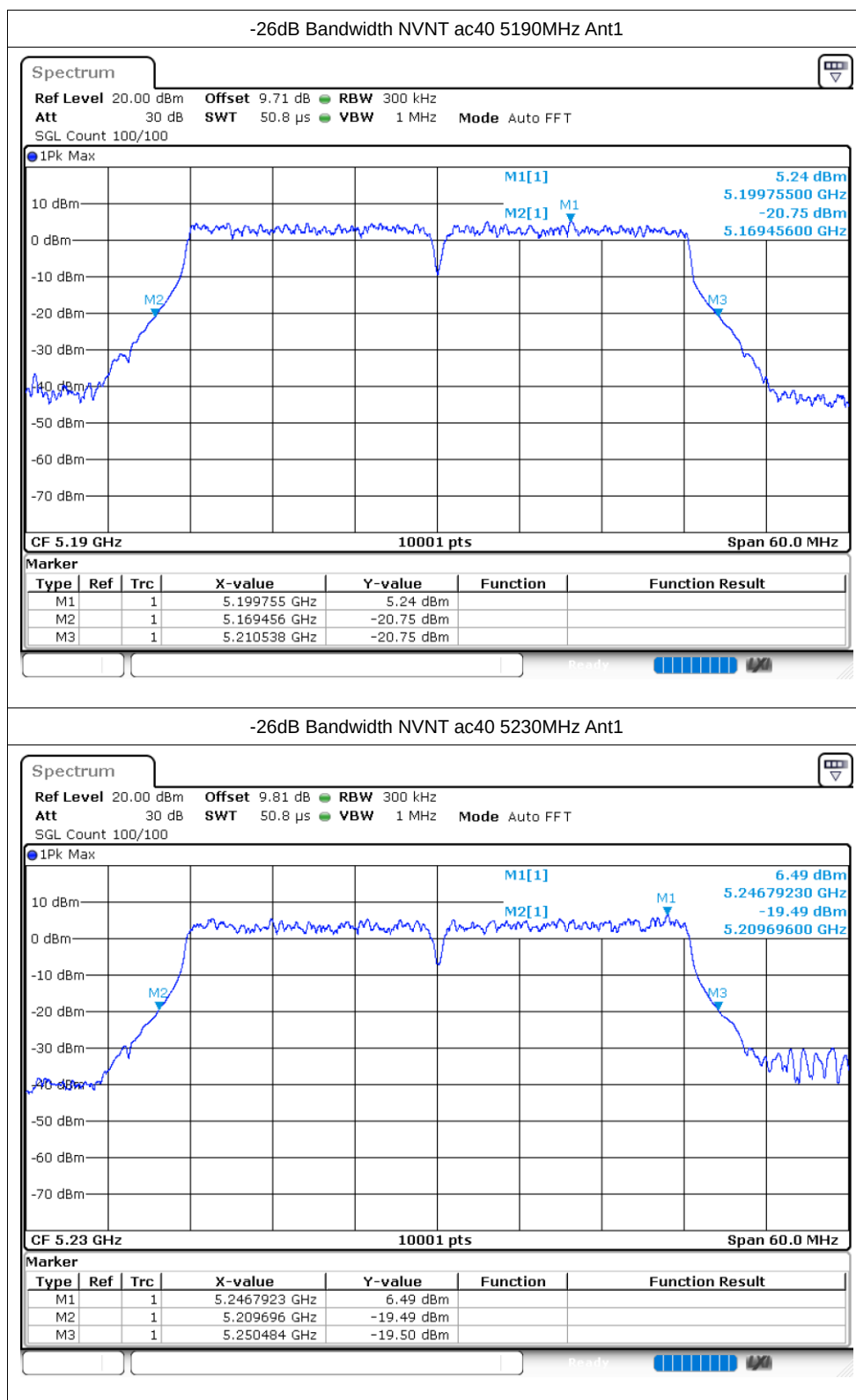


-26dB Bandwidth NVNT ac20 5200MHz Ant2

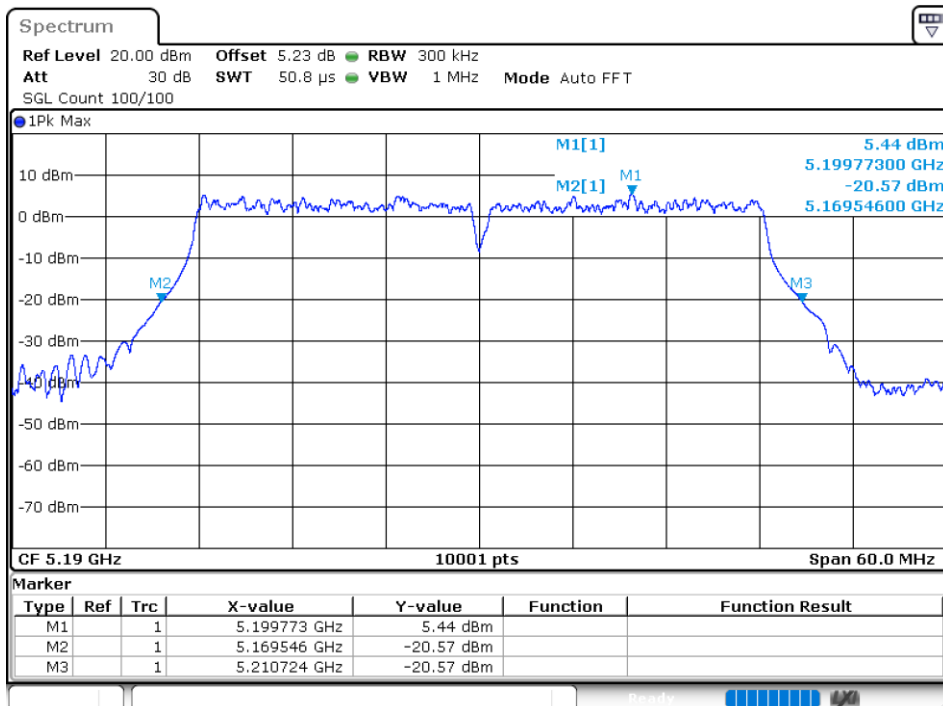


-26dB Bandwidth NVNT ac20 5240MHz Ant2

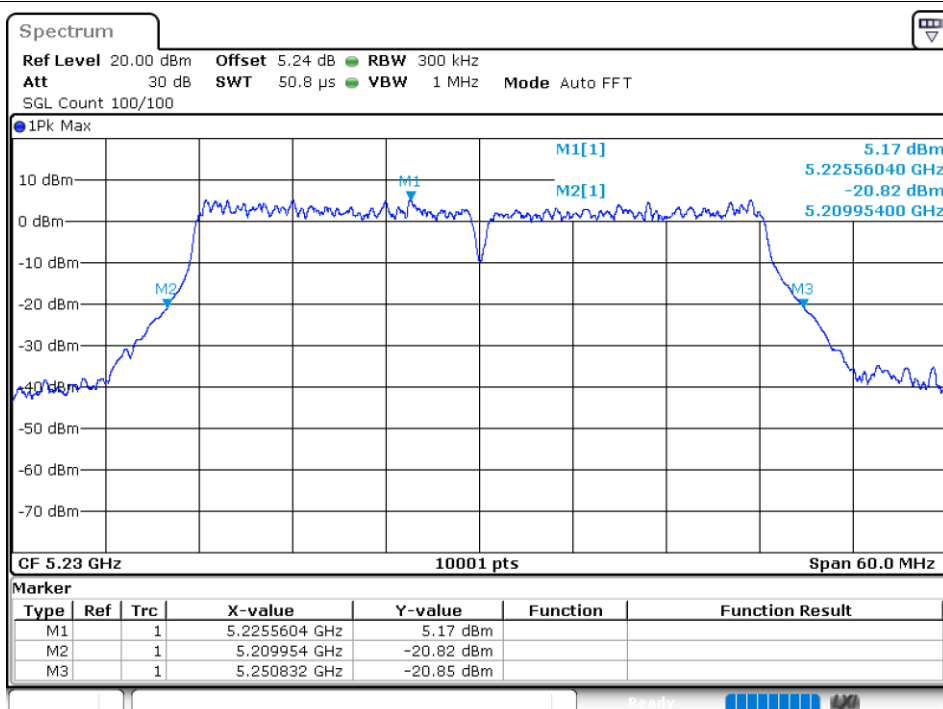




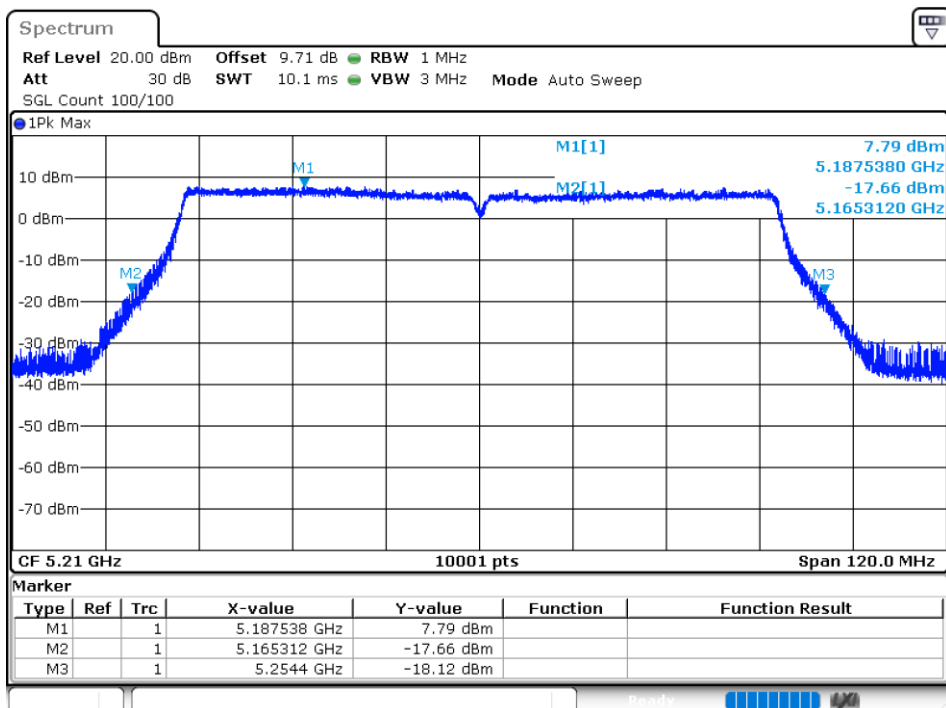
-26dB Bandwidth NVNT ac40 5190MHz Ant2



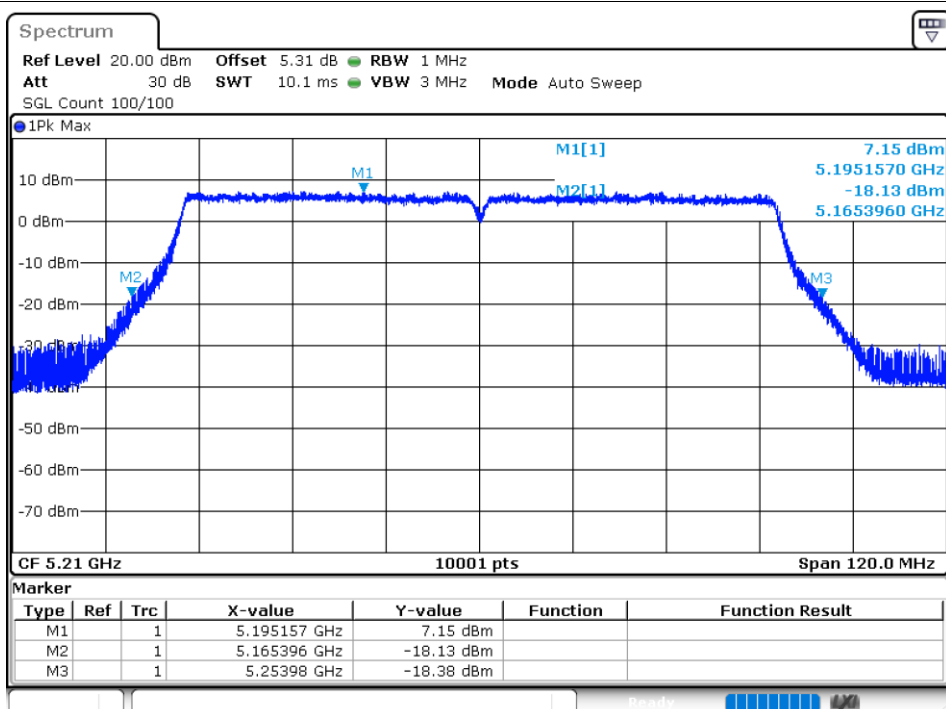
-26dB Bandwidth NVNT ac40 5230MHz Ant2

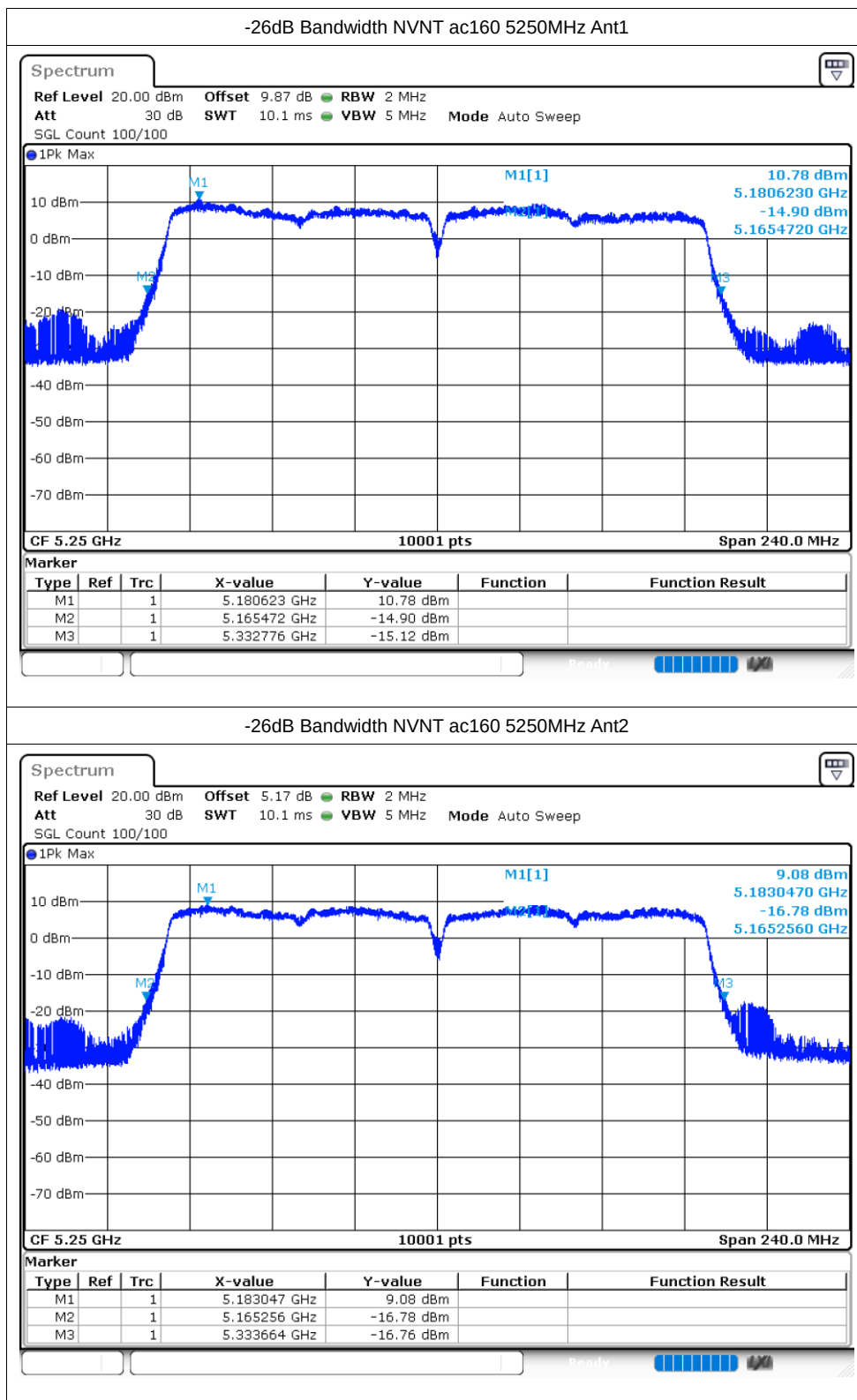


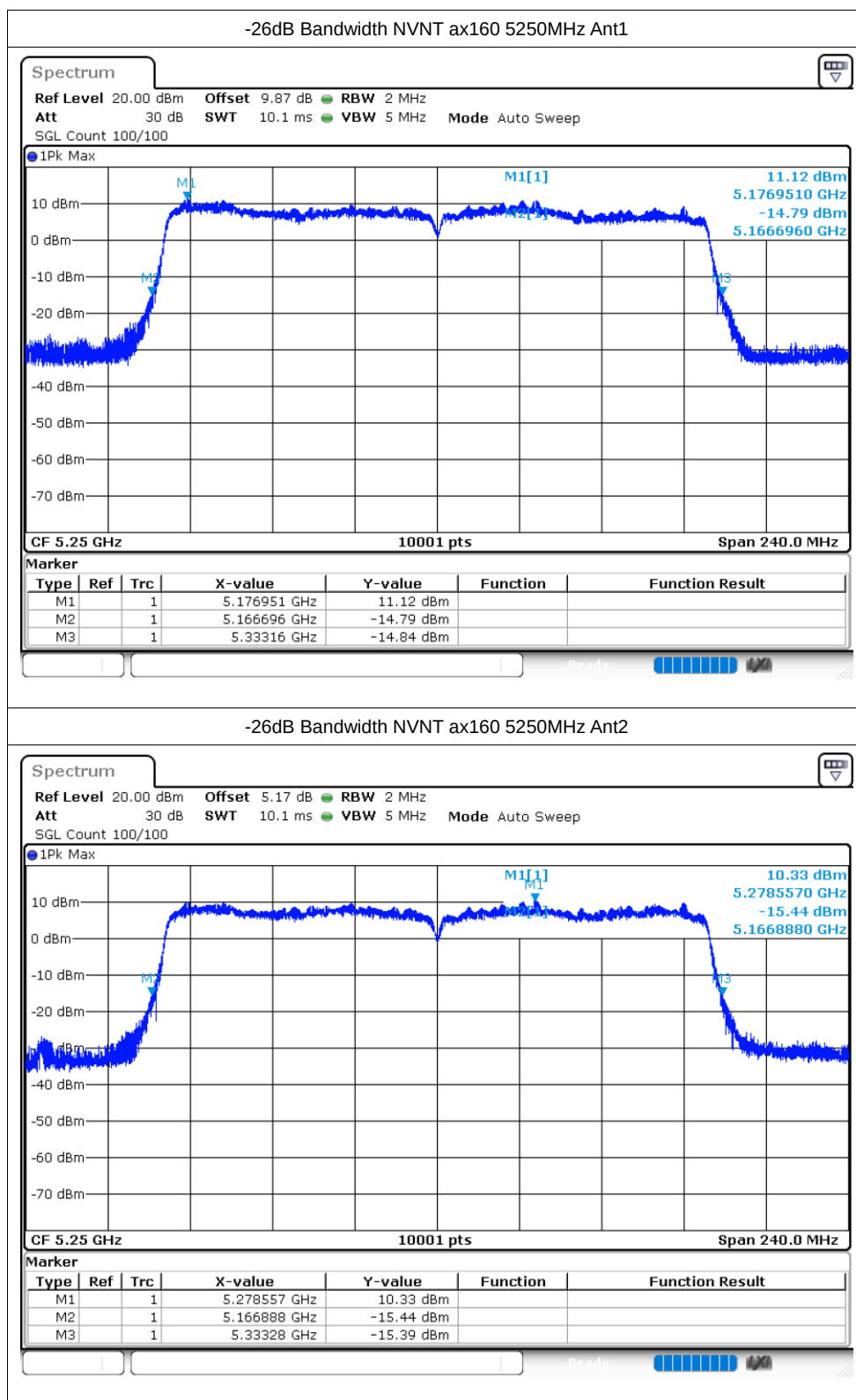
-26dB Bandwidth NVNT ac80 5210MHz Ant1

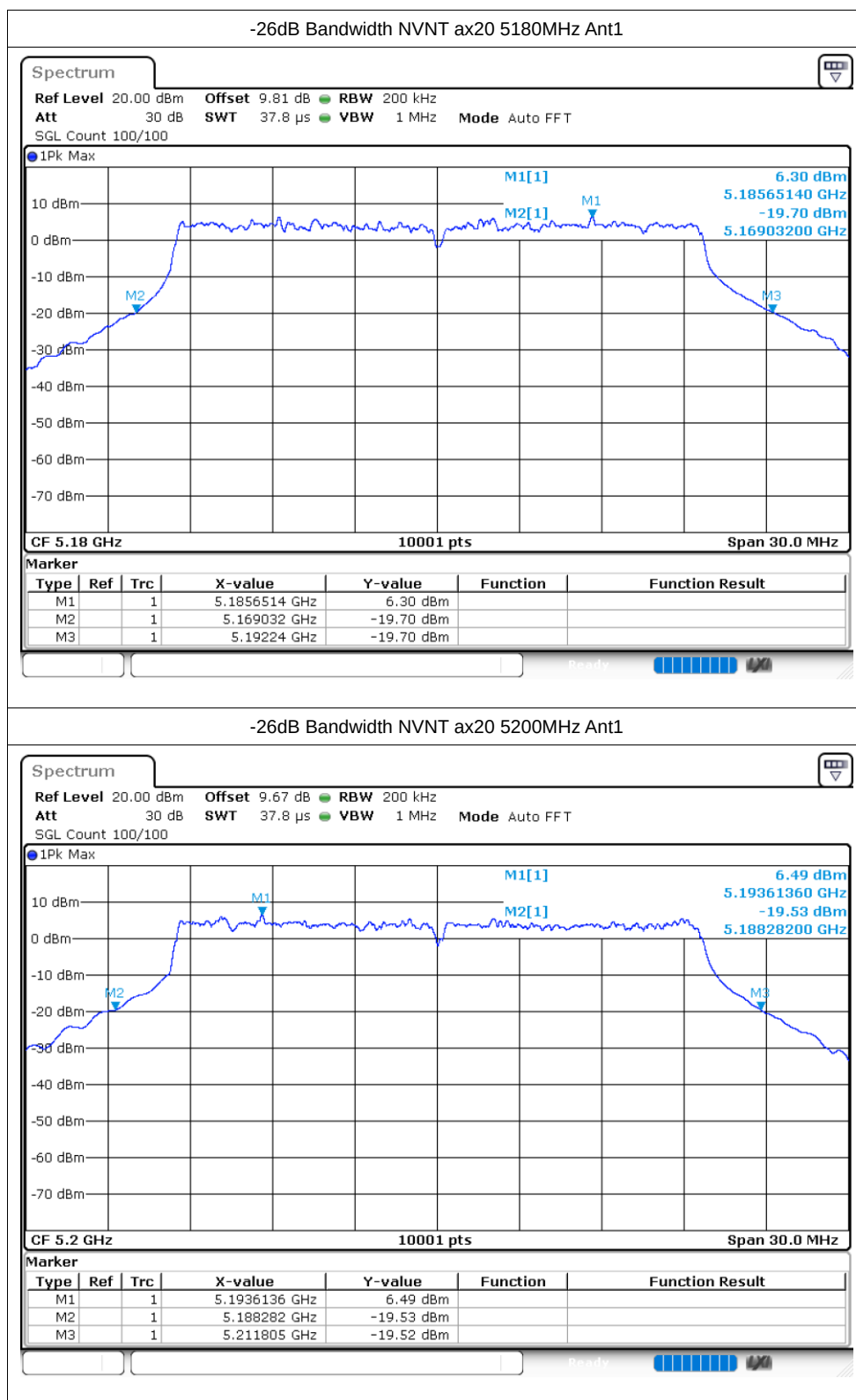


-26dB Bandwidth NVNT ac80 5210MHz Ant2

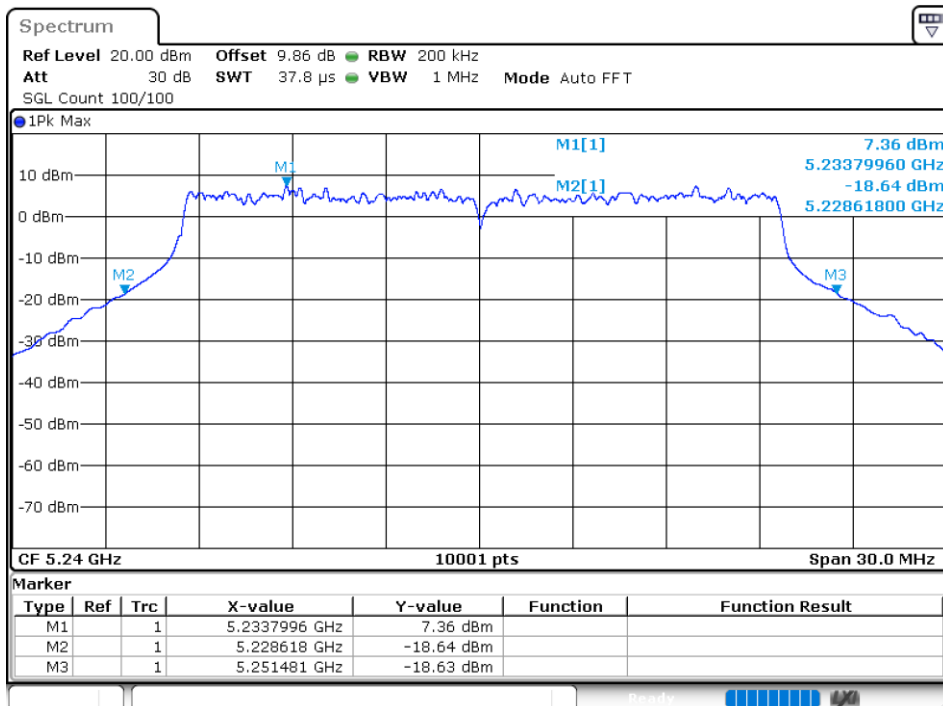




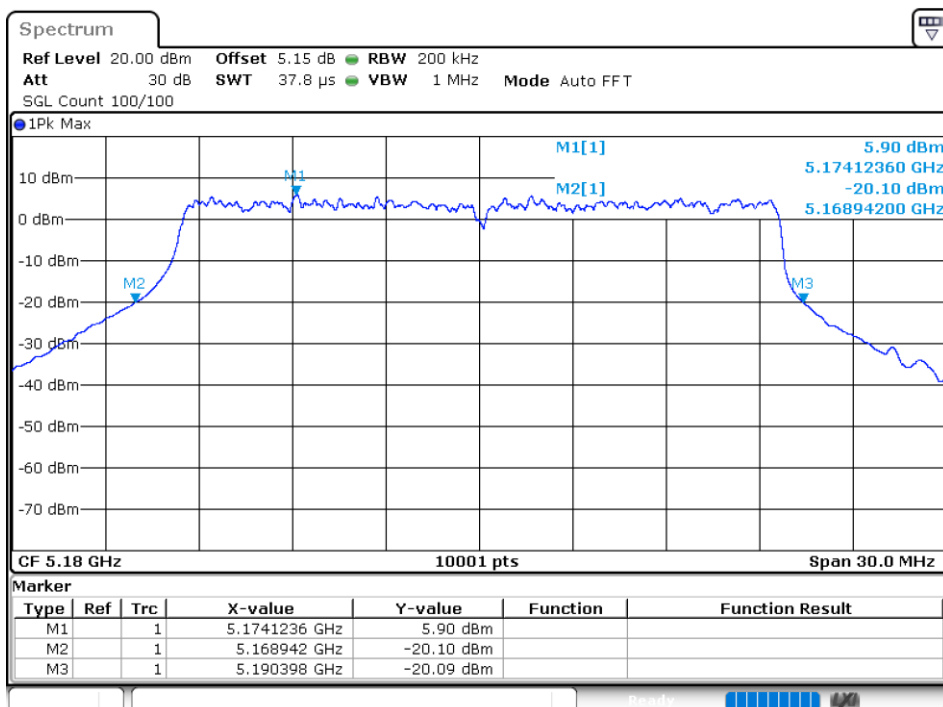




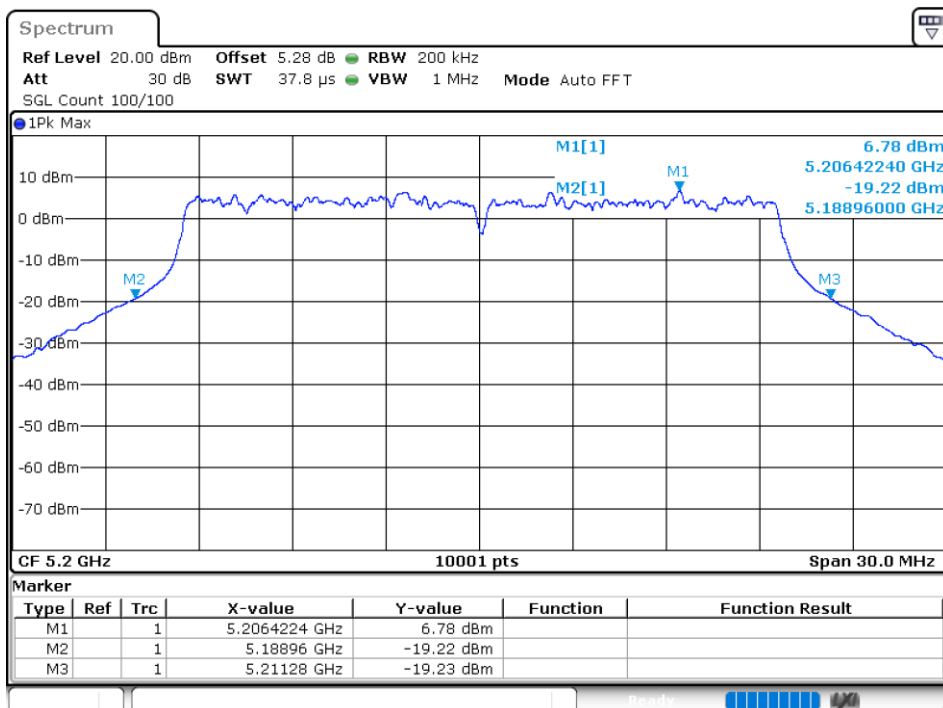
-26dB Bandwidth NVNT ax20 5240MHz Ant1



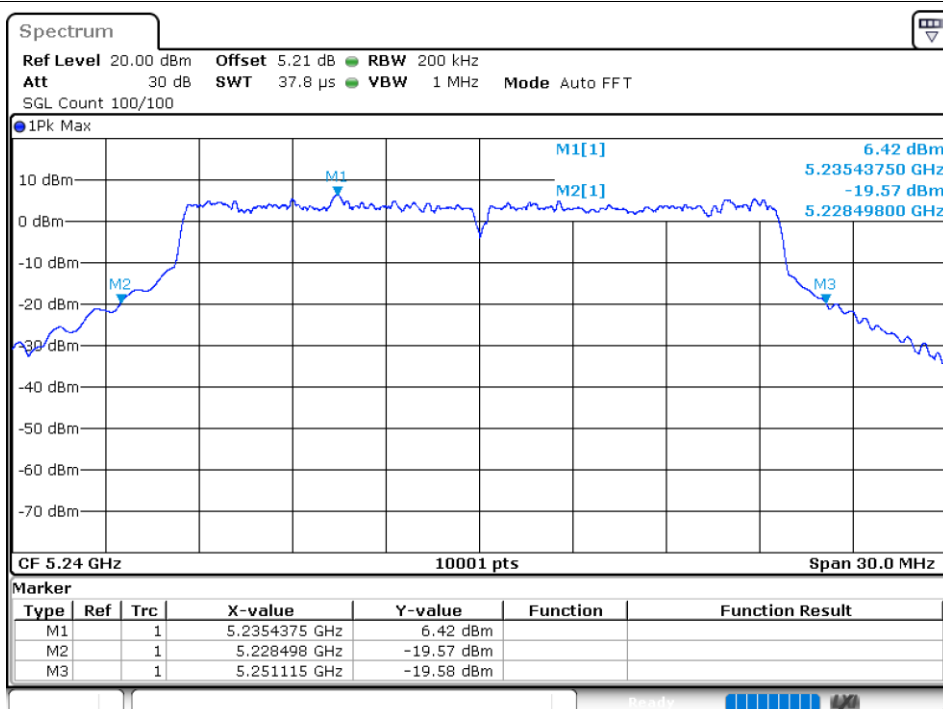
-26dB Bandwidth NVNT ax20 5180MHz Ant2



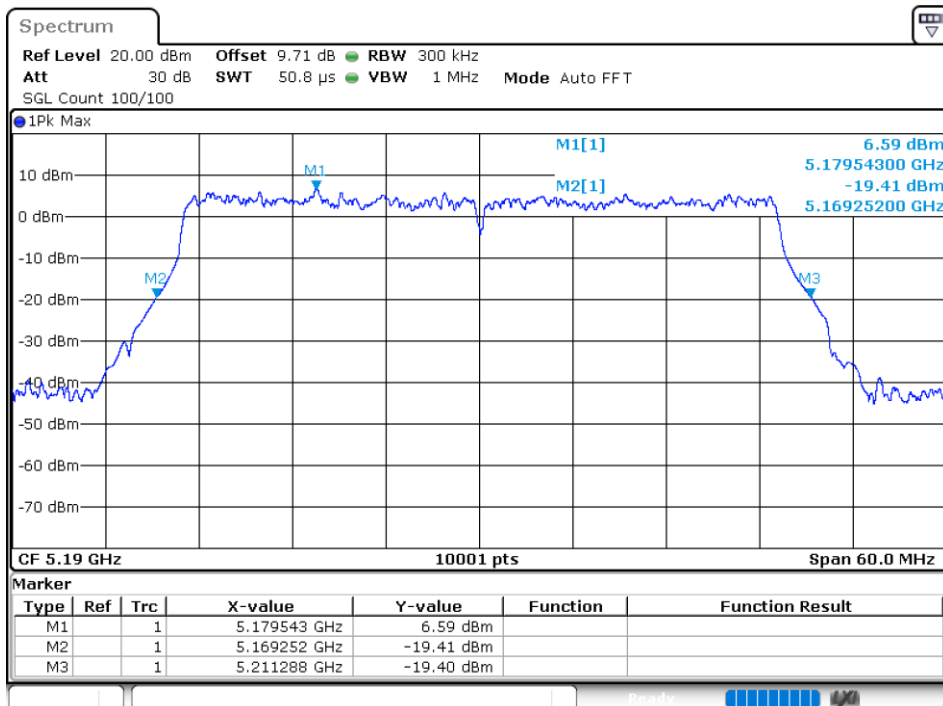
-26dB Bandwidth NVNT ax20 5200MHz Ant2



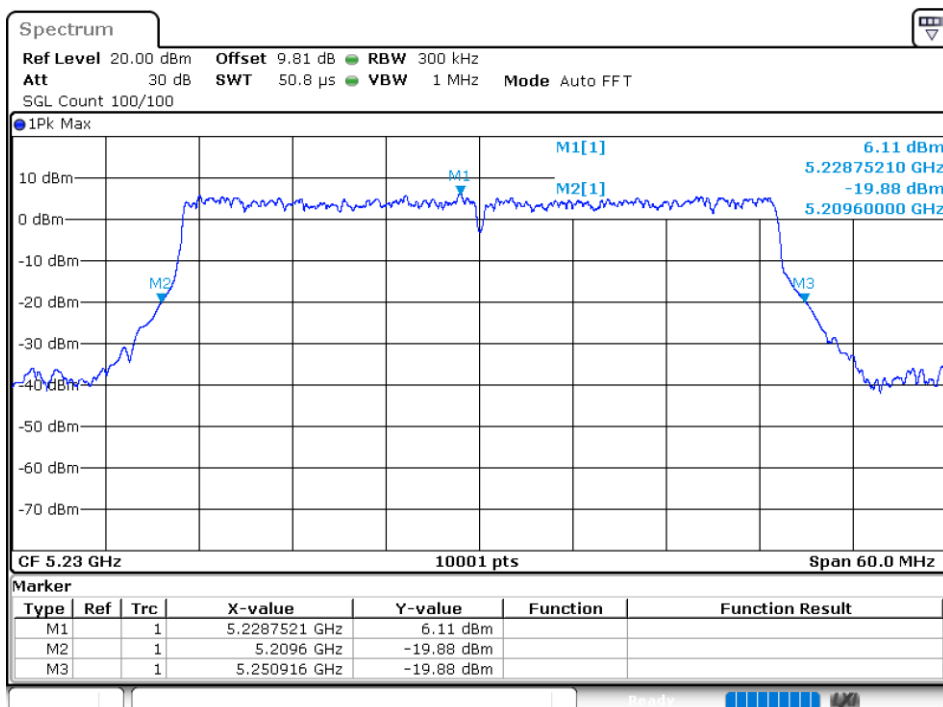
-26dB Bandwidth NVNT ax20 5240MHz Ant2

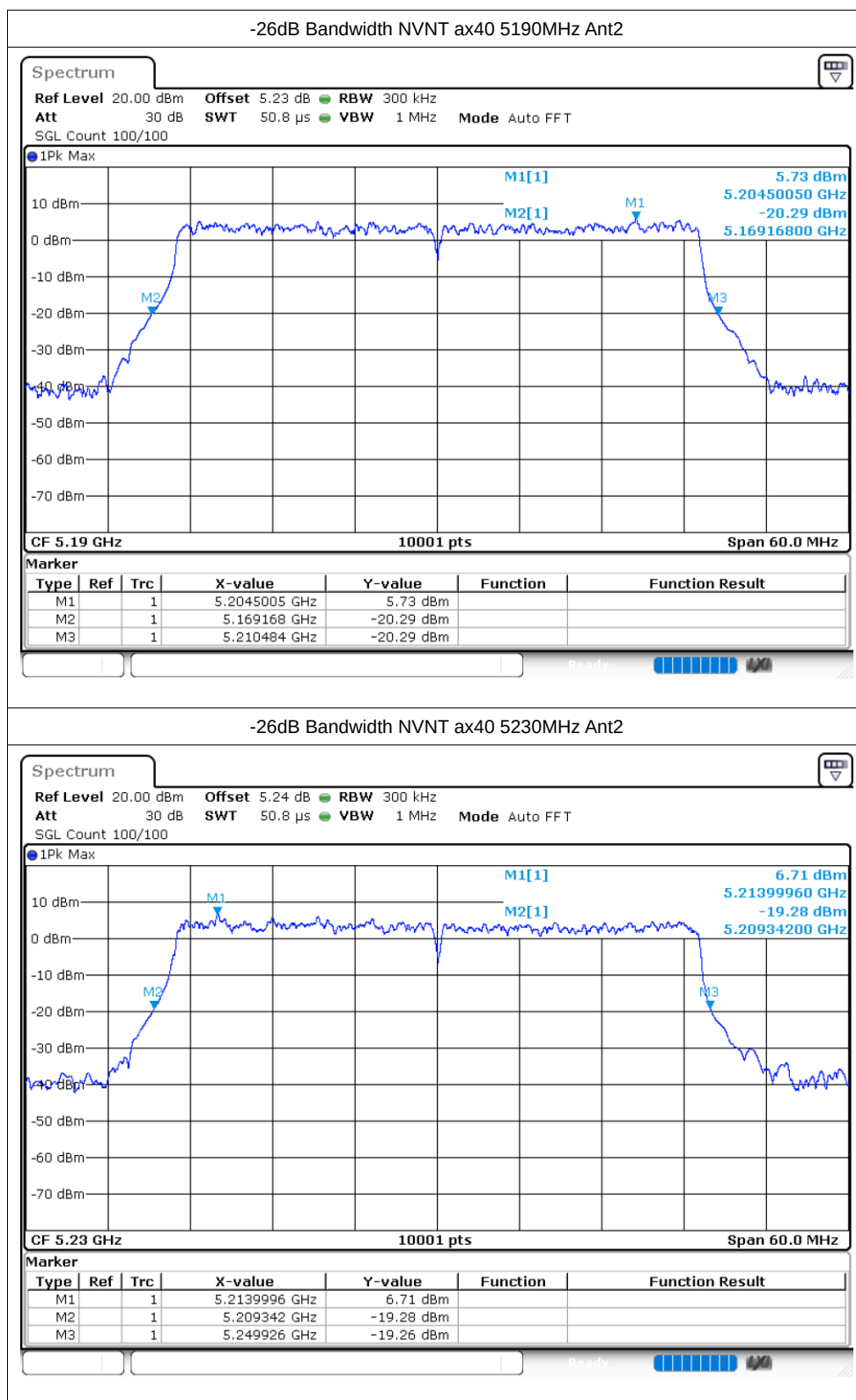


-26dB Bandwidth NVNT ax40 5190MHz Ant1

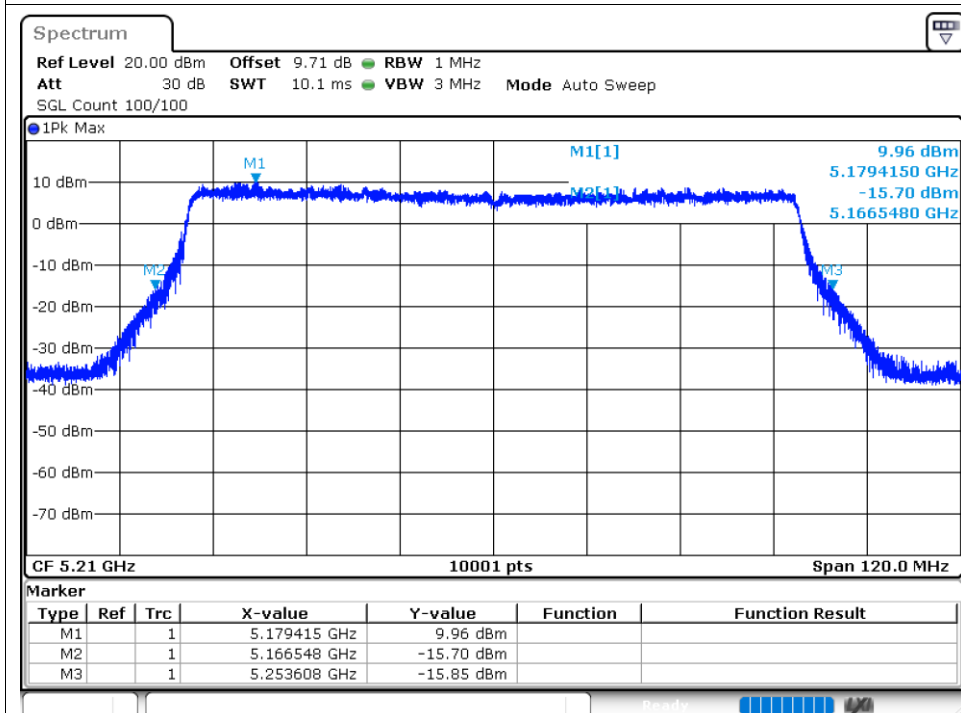


-26dB Bandwidth NVNT ax40 5230MHz Ant1

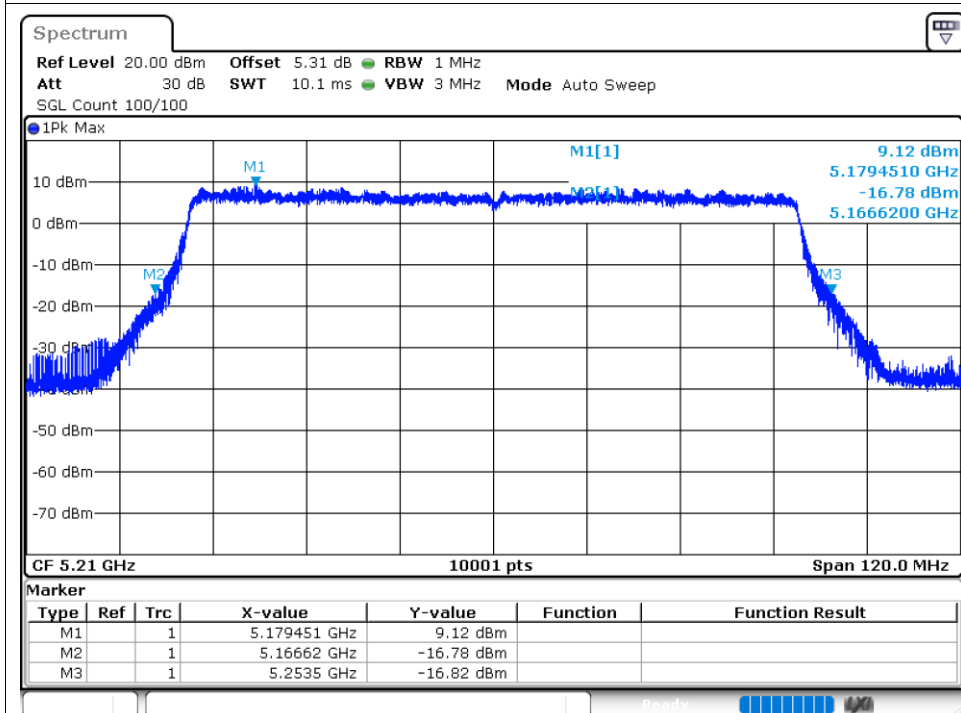




-26dB Bandwidth NVNT ax80 5210MHz Ant1



-26dB Bandwidth NVNT ax80 5210MHz Ant2

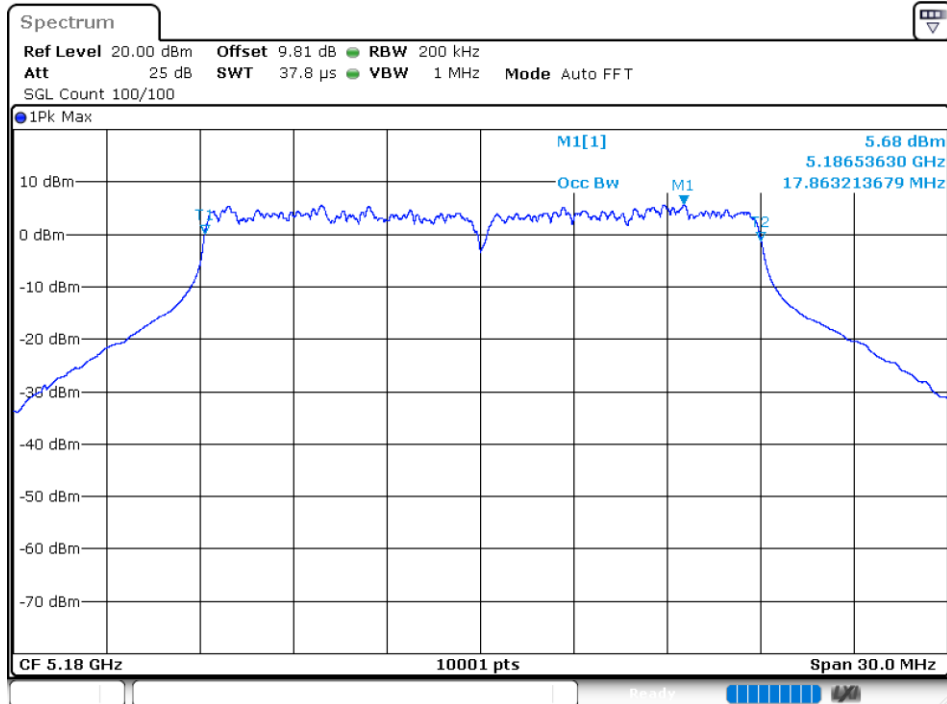


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ac20	5180	Ant1	17.863
NVNT	ac20	5200	Ant1	17.773
NVNT	ac20	5240	Ant1	17.866
NVNT	ac20	5180	Ant2	17.977
NVNT	ac20	5200	Ant2	18.001
NVNT	ac20	5240	Ant2	17.911
NVNT	ac40	5190	Ant1	36.59
NVNT	ac40	5230	Ant1	36.668
NVNT	ac40	5190	Ant2	36.632
NVNT	ac40	5230	Ant2	36.632
NVNT	ac80	5210	Ant1	76.288
NVNT	ac80	5210	Ant2	76.192
NVNT	ac160	5250	Ant1	154.857
NVNT	ac160	5250	Ant2	154.857
NVNT	ax160	5250	Ant1	156.008
NVNT	ax160	5250	Ant2	155.96
NVNT	ax20	5180	Ant1	19.042
NVNT	ax20	5200	Ant1	19.075
NVNT	ax20	5240	Ant1	19.123
NVNT	ax20	5180	Ant2	19.078
NVNT	ax20	5200	Ant2	19.072
NVNT	ax20	5240	Ant2	19.147
NVNT	ax40	5190	Ant1	37.862
NVNT	ax40	5230	Ant1	37.928
NVNT	ax40	5190	Ant2	37.886
NVNT	ax40	5230	Ant2	37.898
NVNT	ax80	5210	Ant1	77.704
NVNT	ax80	5210	Ant2	77.62

Test Graphs

OBW NVNT ac20 5180MHz Ant1



OBW NVNT ac20 5200MHz Ant1

