

WIFI 5.2G MIMO:

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant1	13.88	24	Pass
NVNT	ac20	5180	Ant2	8.27	24	Pass
NVNT	ac20	5180	Sum	14.93	24	Pass
NVNT	ac20	5200	Ant1	13.68	24	Pass
NVNT	ac20	5200	Ant2	8.66	24	Pass
NVNT	ac20	5200	Sum	14.87	24	Pass
NVNT	ac20	5240	Ant1	12.36	24	Pass
NVNT	ac20	5240	Ant2	8.05	24	Pass
NVNT	ac20	5240	Sum	13.73	24	Pass
NVNT	ac40	5190	Ant1	13.77	24	Pass
NVNT	ac40	5190	Ant2	8.5	24	Pass
NVNT	ac40	5190	Sum	14.9	24	Pass
NVNT	ac40	5230	Ant1	12.56	24	Pass
NVNT	ac40	5230	Ant2	8.52	24	Pass
NVNT	ac40	5230	Sum	14	24	Pass
NVNT	ac80	5210	Ant1	12.36	24	Pass
NVNT	ac80	5210	Ant2	7.41	24	Pass
NVNT	ac80	5210	Sum	13.57	24	Pass
NVNT	ax20	5180	Ant1	14.06	24	Pass
NVNT	ax20	5180	Ant2	8.39	24	Pass
NVNT	ax20	5180	Sum	15.1	24	Pass
NVNT	ax20	5200	Ant1	13.45	24	Pass
NVNT	ax20	5200	Ant2	8.54	24	Pass
NVNT	ax20	5200	Sum	14.67	24	Pass
NVNT	ax20	5240	Ant1	12.11	24	Pass
NVNT	ax20	5240	Ant2	8.07	24	Pass
NVNT	ax20	5240	Sum	13.55	24	Pass
NVNT	ax40	5190	Ant1	14.12	24	Pass
NVNT	ax40	5190	Ant2	8.78	24	Pass
NVNT	ax40	5190	Sum	15.23	24	Pass
NVNT	ax40	5230	Ant1	12.63	24	Pass
NVNT	ax40	5230	Ant2	8.47	24	Pass
NVNT	ax40	5230	Sum	14.04	24	Pass
NVNT	ax80	5210	Ant1	12.97	24	Pass
NVNT	ax80	5210	Ant2	8.3	24	Pass
NVNT	ax80	5210	Sum	14.24	24	Pass

NVNT	n20	5180	Ant1	13.18	24	Pass
NVNT	n20	5180	Ant2	7.85	24	Pass
NVNT	n20	5180	Sum	14.3	24	Pass
NVNT	n20	5200	Ant1	13.54	24	Pass
NVNT	n20	5200	Ant2	8.58	24	Pass
NVNT	n20	5200	Sum	14.74	24	Pass
NVNT	n20	5240	Ant1	12.53	24	Pass
NVNT	n20	5240	Ant2	8.38	24	Pass
NVNT	n20	5240	Sum	13.94	24	Pass
NVNT	n40	5190	Ant1	14	24	Pass
NVNT	n40	5190	Ant2	8.54	24	Pass
NVNT	n40	5190	Sum	15.09	24	Pass
NVNT	n40	5230	Ant1	12.44	24	Pass
NVNT	n40	5230	Ant2	8.45	24	Pass
NVNT	n40	5230	Sum	13.9	24	Pass

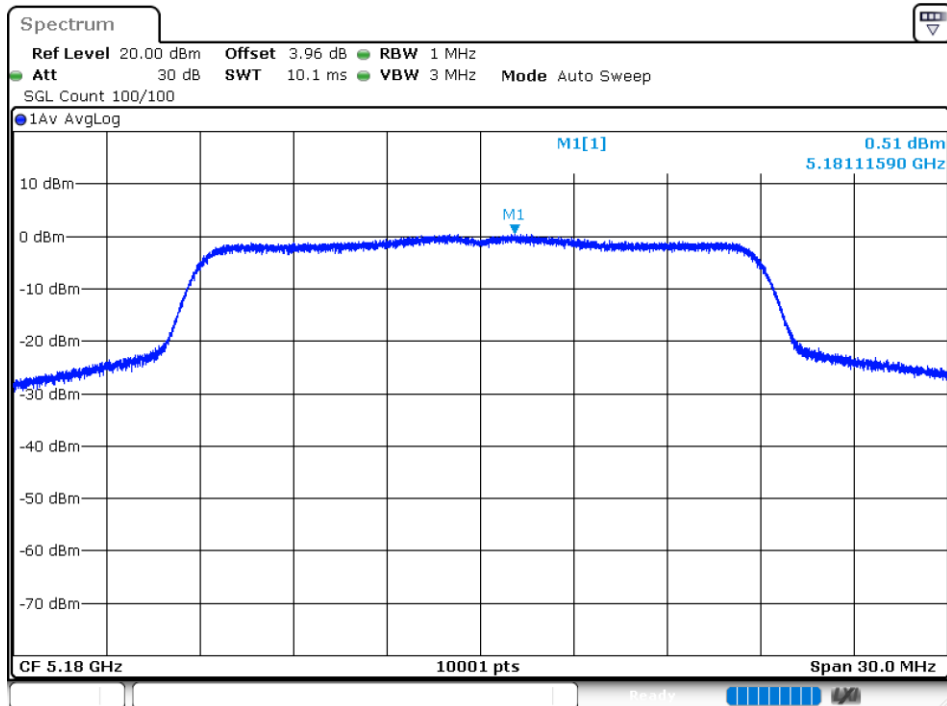
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant1	0.51	0	0.51	11	Pass
NVNT	ac20	5180	Ant2	-4.75	0	-4.75	11	Pass
NVNT	ac20	5180	Sum	1.64	0	1.64	11	Pass
NVNT	ac20	5200	Ant1	0.11	0	0.11	11	Pass
NVNT	ac20	5200	Ant2	-4.65	0	-4.65	11	Pass
NVNT	ac20	5200	Sum	1.36	0	1.36	11	Pass
NVNT	ac20	5240	Ant1	-0.21	0	-0.21	11	Pass
NVNT	ac20	5240	Ant2	-4.84	0	-4.84	11	Pass
NVNT	ac20	5240	Sum	1.08	0	1.08	11	Pass
NVNT	ac40	5190	Ant1	-1.63	0	-1.63	11	Pass
NVNT	ac40	5190	Ant2	-6.74	0	-6.74	11	Pass
NVNT	ac40	5190	Sum	-0.46	0	-0.46	11	Pass
NVNT	ac40	5230	Ant1	-2.95	0	-2.95	11	Pass
NVNT	ac40	5230	Ant2	-6.76	0	-6.76	11	Pass
NVNT	ac40	5230	Sum	-1.44	0	-1.44	11	Pass
NVNT	ac80	5210	Ant1	-7.16	0	-7.16	11	Pass
NVNT	ac80	5210	Ant2	-12.33	0	-12.33	11	Pass
NVNT	ac80	5210	Sum	-6.01	0	-6.01	11	Pass
NVNT	ax20	5180	Ant1	-0.03	0	-0.03	11	Pass
NVNT	ax20	5180	Ant2	-4.95	0	-4.95	11	Pass
NVNT	ax20	5180	Sum	1.18	0	1.18	11	Pass
NVNT	ax20	5200	Ant1	-0.46	0	-0.46	11	Pass
NVNT	ax20	5200	Ant2	-5.05	0	-5.05	11	Pass
NVNT	ax20	5200	Sum	0.84	0	0.84	11	Pass
NVNT	ax20	5240	Ant1	-0.45	0	-0.45	11	Pass
NVNT	ax20	5240	Ant2	-5.38	0	-5.38	11	Pass
NVNT	ax20	5240	Sum	0.76	0	0.76	11	Pass
NVNT	ax40	5190	Ant1	-1.73	0	-1.73	11	Pass
NVNT	ax40	5190	Ant2	-6.71	0	-6.71	11	Pass
NVNT	ax40	5190	Sum	-0.53	0	-0.53	11	Pass
NVNT	ax40	5230	Ant1	-2.66	0	-2.66	11	Pass
NVNT	ax40	5230	Ant2	-7.23	0	-7.23	11	Pass
NVNT	ax40	5230	Sum	-1.36	0	-1.36	11	Pass
NVNT	ax80	5210	Ant1	-6.99	0	-6.99	11	Pass
NVNT	ax80	5210	Ant2	-11.82	0	-11.82	11	Pass
NVNT	ax80	5210	Sum	-5.76	0	-5.76	11	Pass
NVNT	n20	5180	Ant1	-0.15	0	-0.15	11	Pass
NVNT	n20	5180	Ant2	-5.27	0	-5.27	11	Pass
NVNT	n20	5180	Sum	1.01	0	1.01	11	Pass
NVNT	n20	5200	Ant1	0.2	0	0.2	11	Pass
NVNT	n20	5200	Ant2	-5.04	0	-5.04	11	Pass

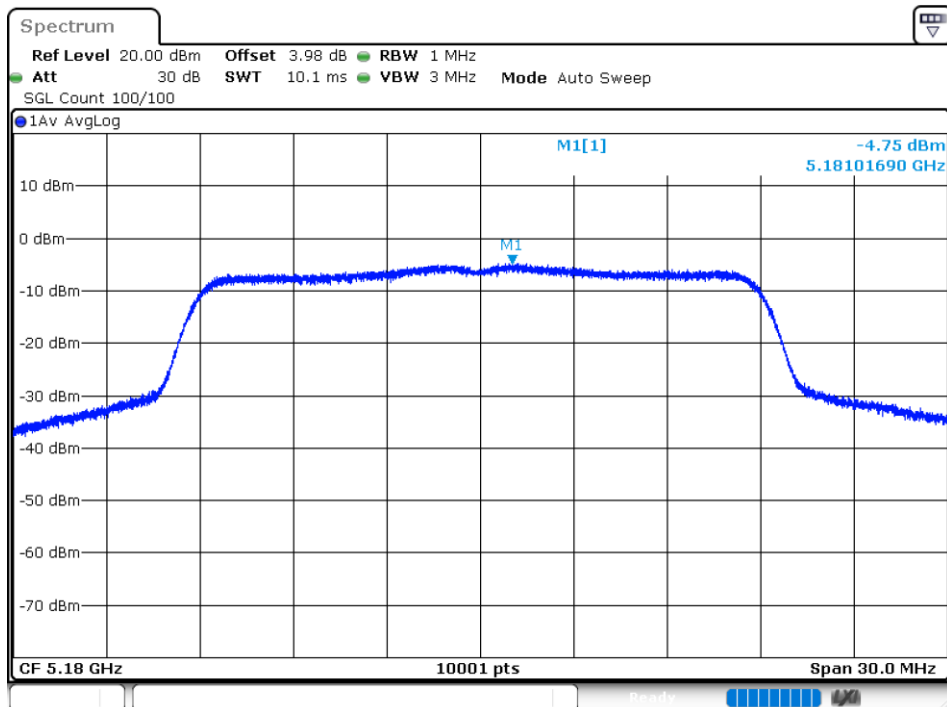
NVNT	n20	5200	Sum	1.34	0	1.34	11	Pass
NVNT	n20	5240	Ant1	0.18	0	0.18	11	Pass
NVNT	n20	5240	Ant2	-4.37	0	-4.37	11	Pass
NVNT	n20	5240	Sum	1.49	0	1.49	11	Pass
NVNT	n40	5190	Ant1	-1.76	0	-1.76	11	Pass
NVNT	n40	5190	Ant2	-6.72	0	-6.72	11	Pass
NVNT	n40	5190	Sum	-0.56	0	-0.56	11	Pass
NVNT	n40	5230	Ant1	-3.32	0	-3.32	11	Pass
NVNT	n40	5230	Ant2	-7.62	0	-7.62	11	Pass
NVNT	n40	5230	Sum	-1.95	0	-1.95	11	Pass

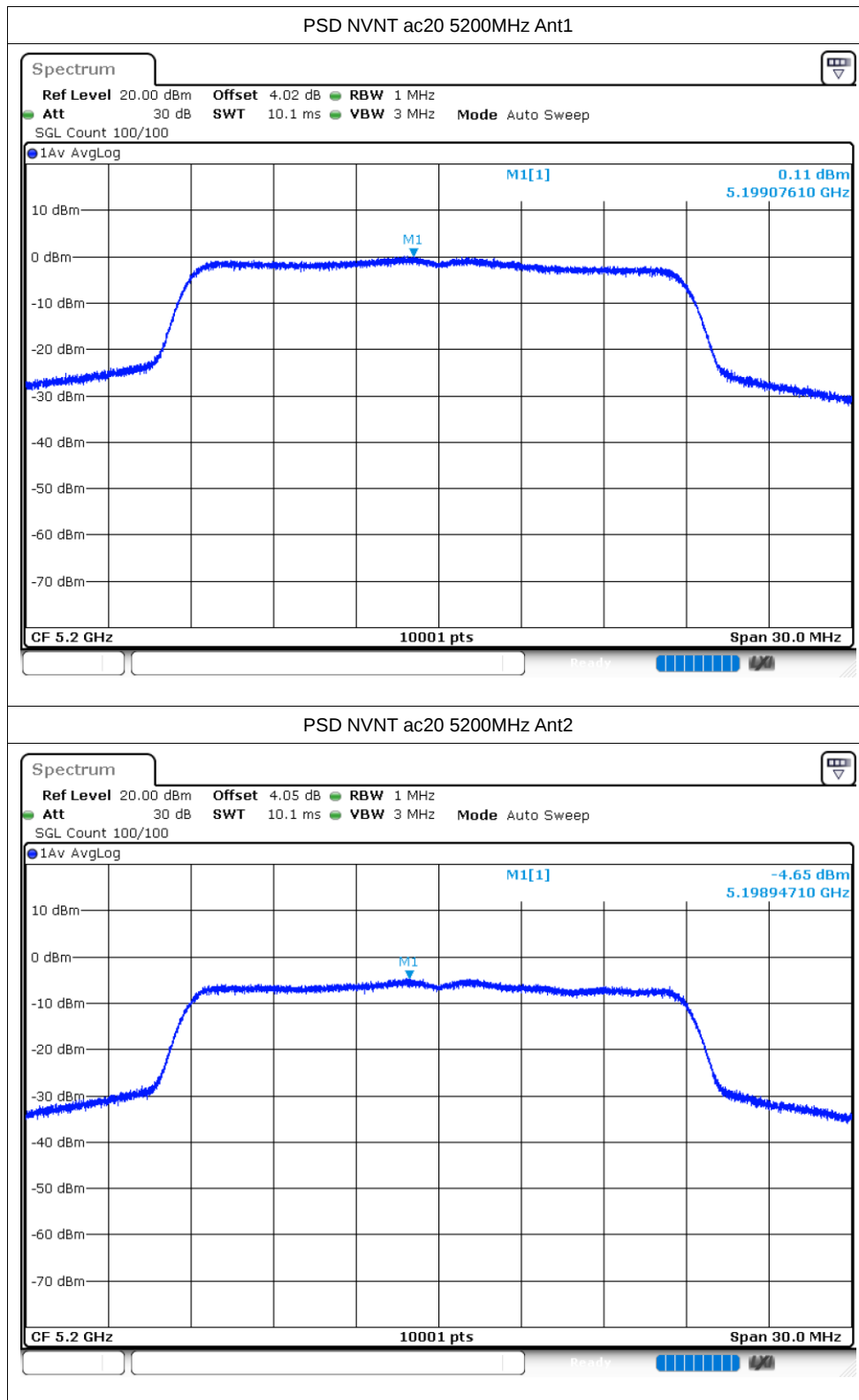
Test Graphs

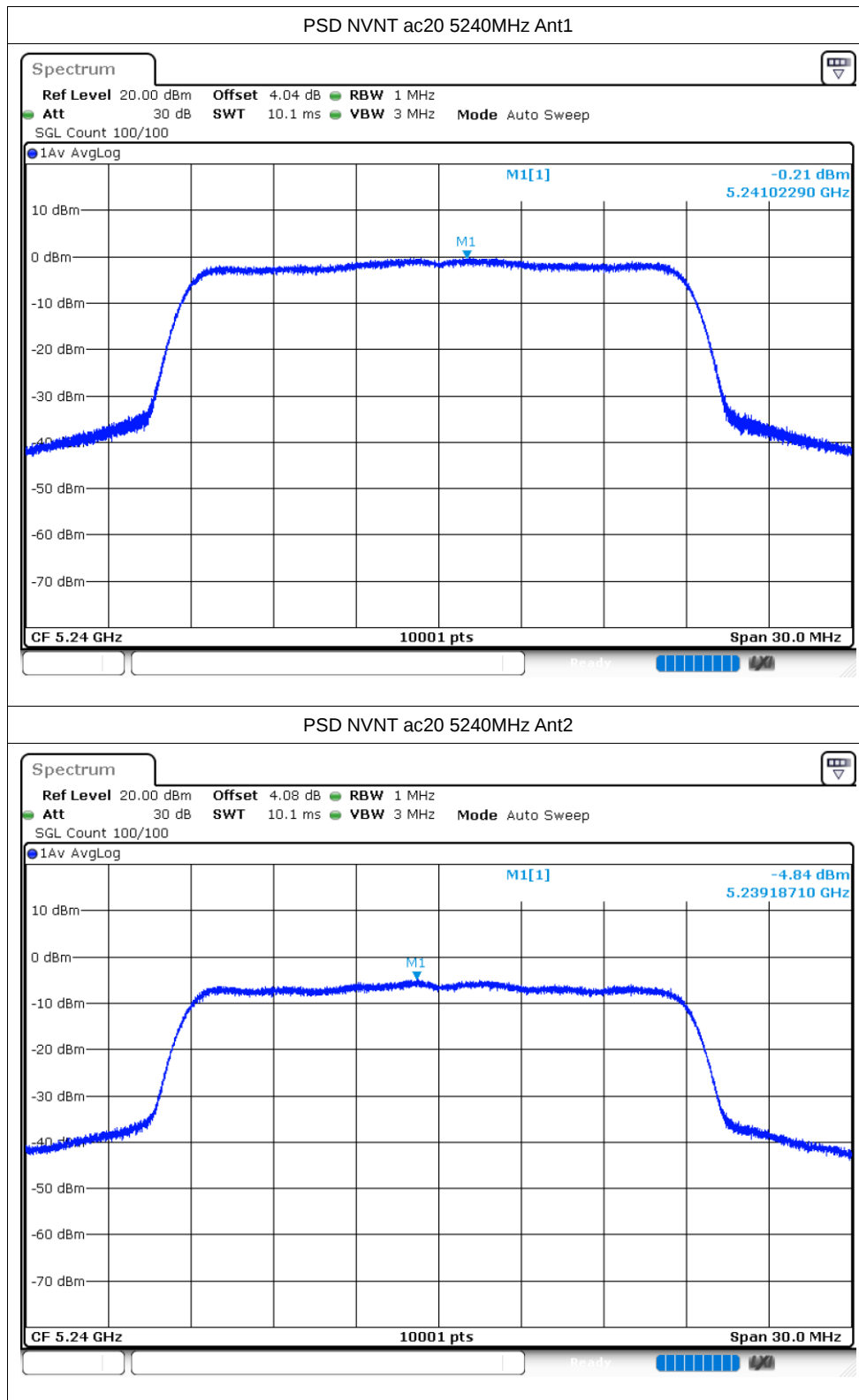
PSD NVNT ac20 5180MHz Ant1

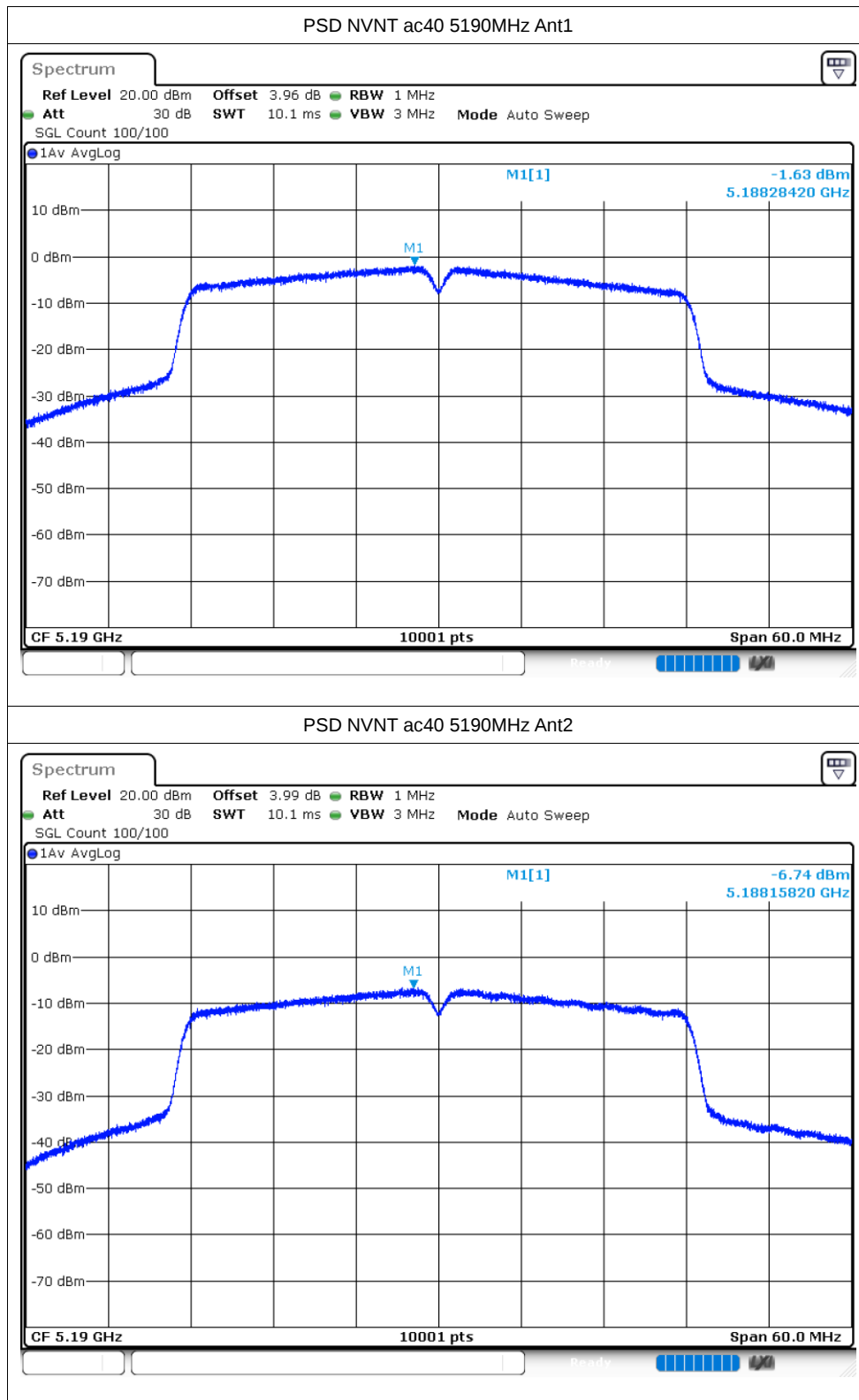


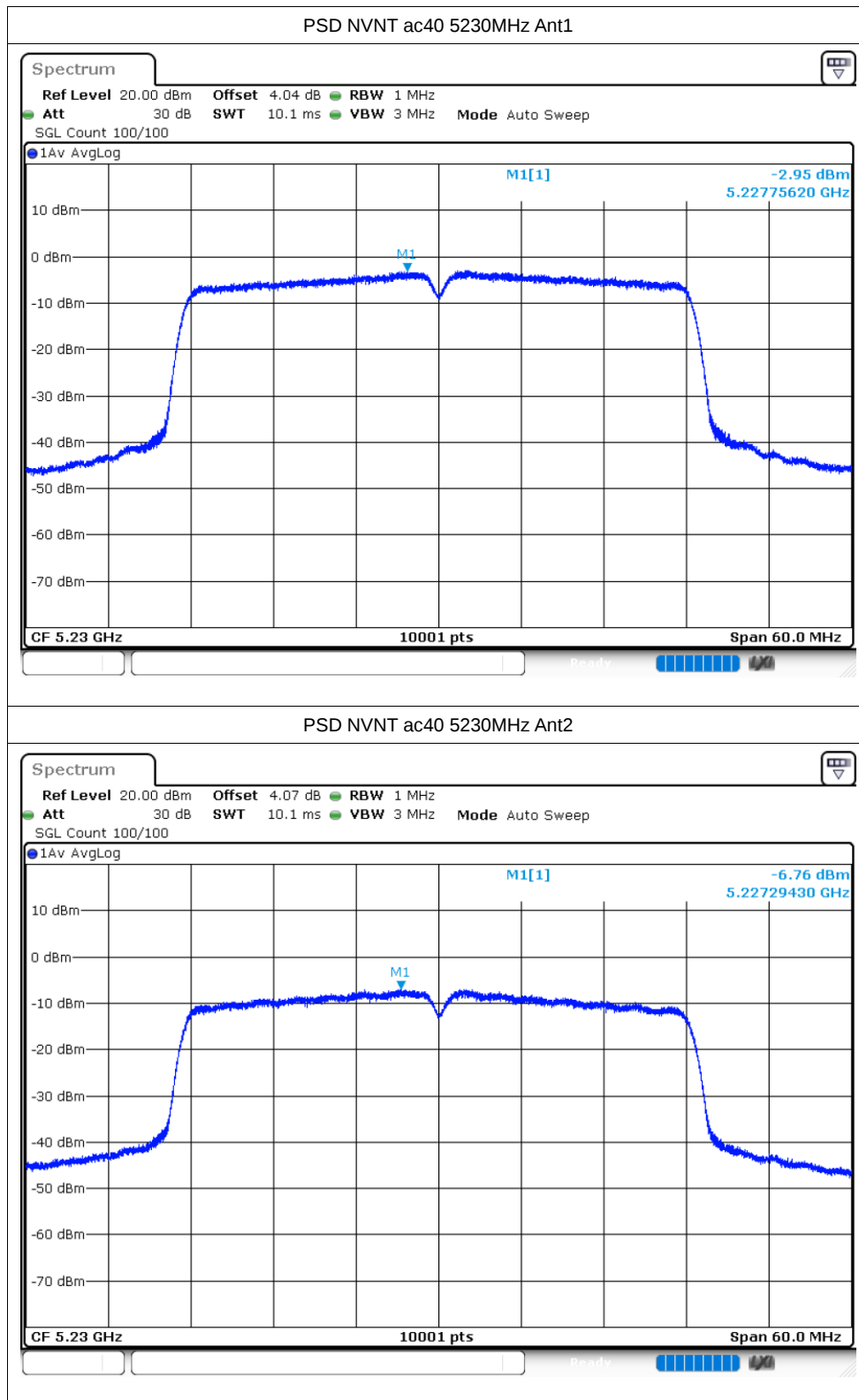
PSD NVNT ac20 5180MHz Ant2

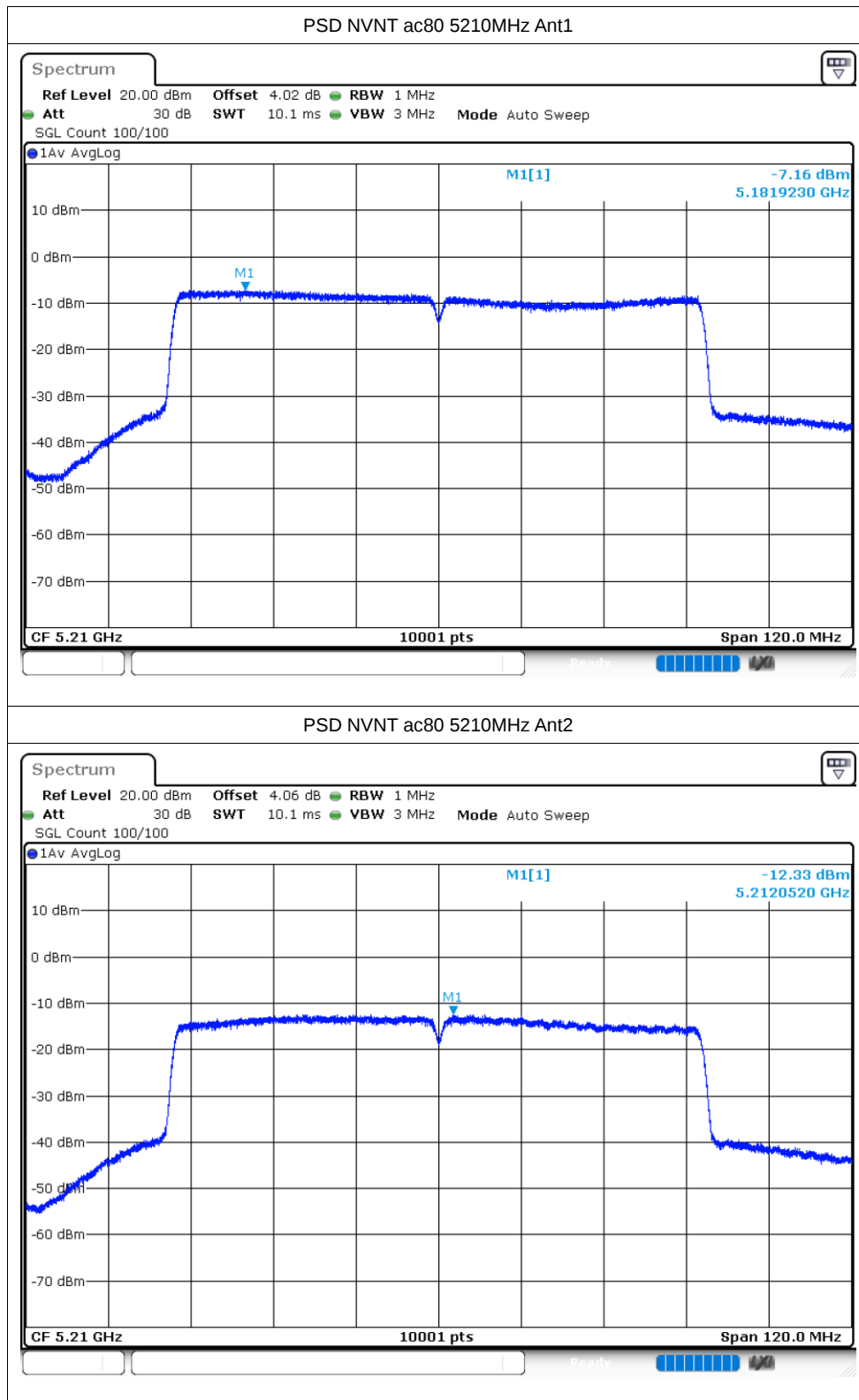


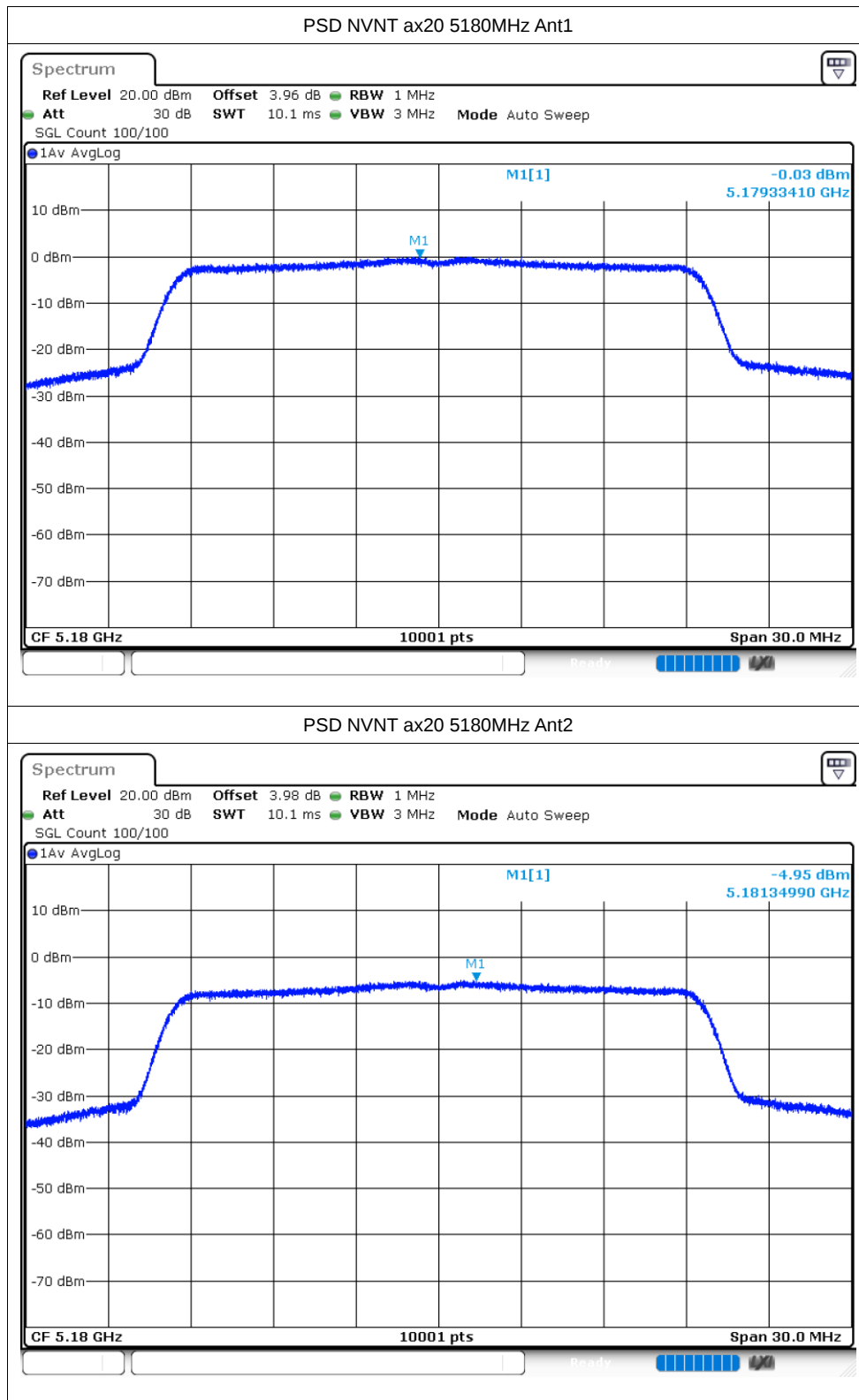


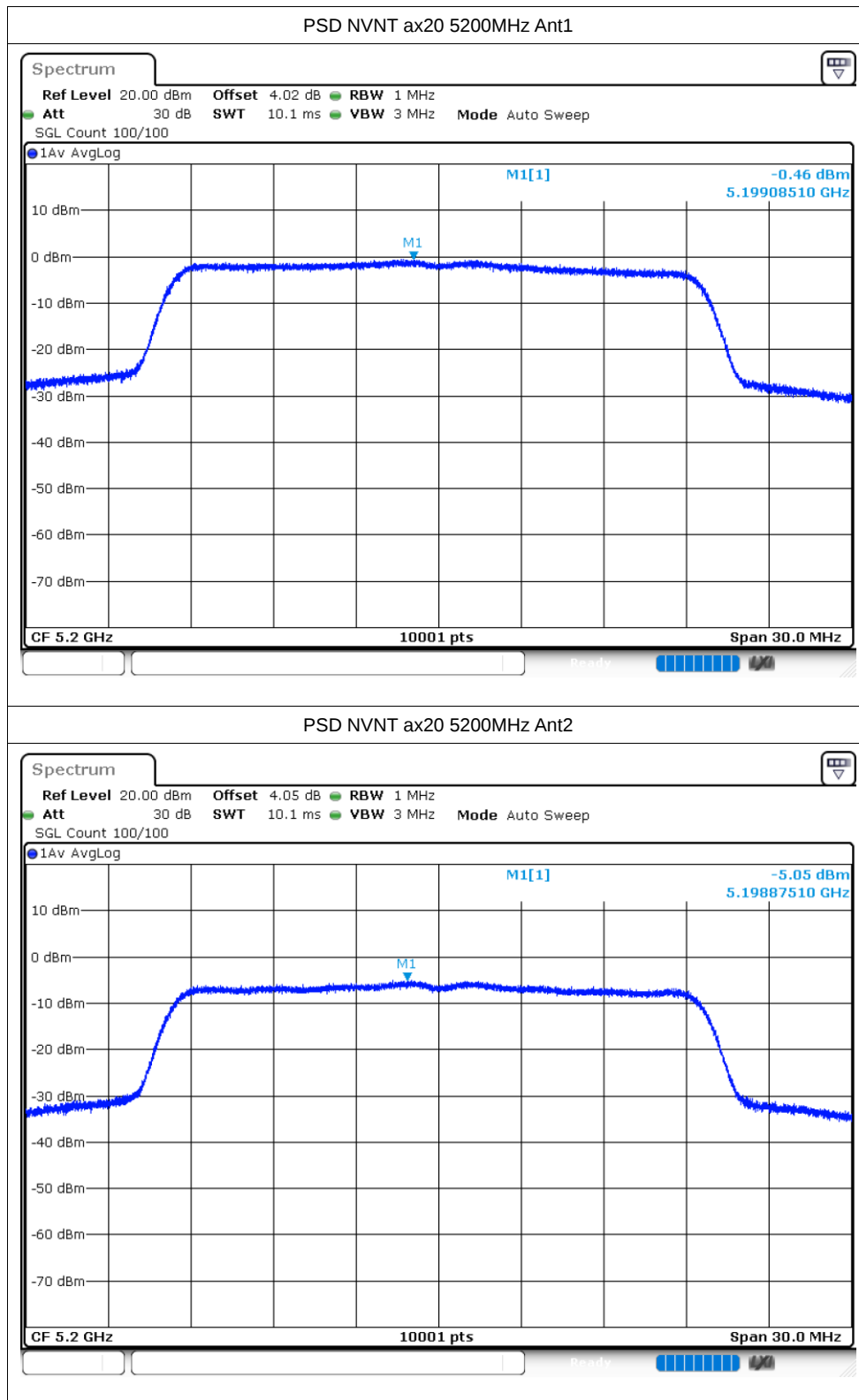


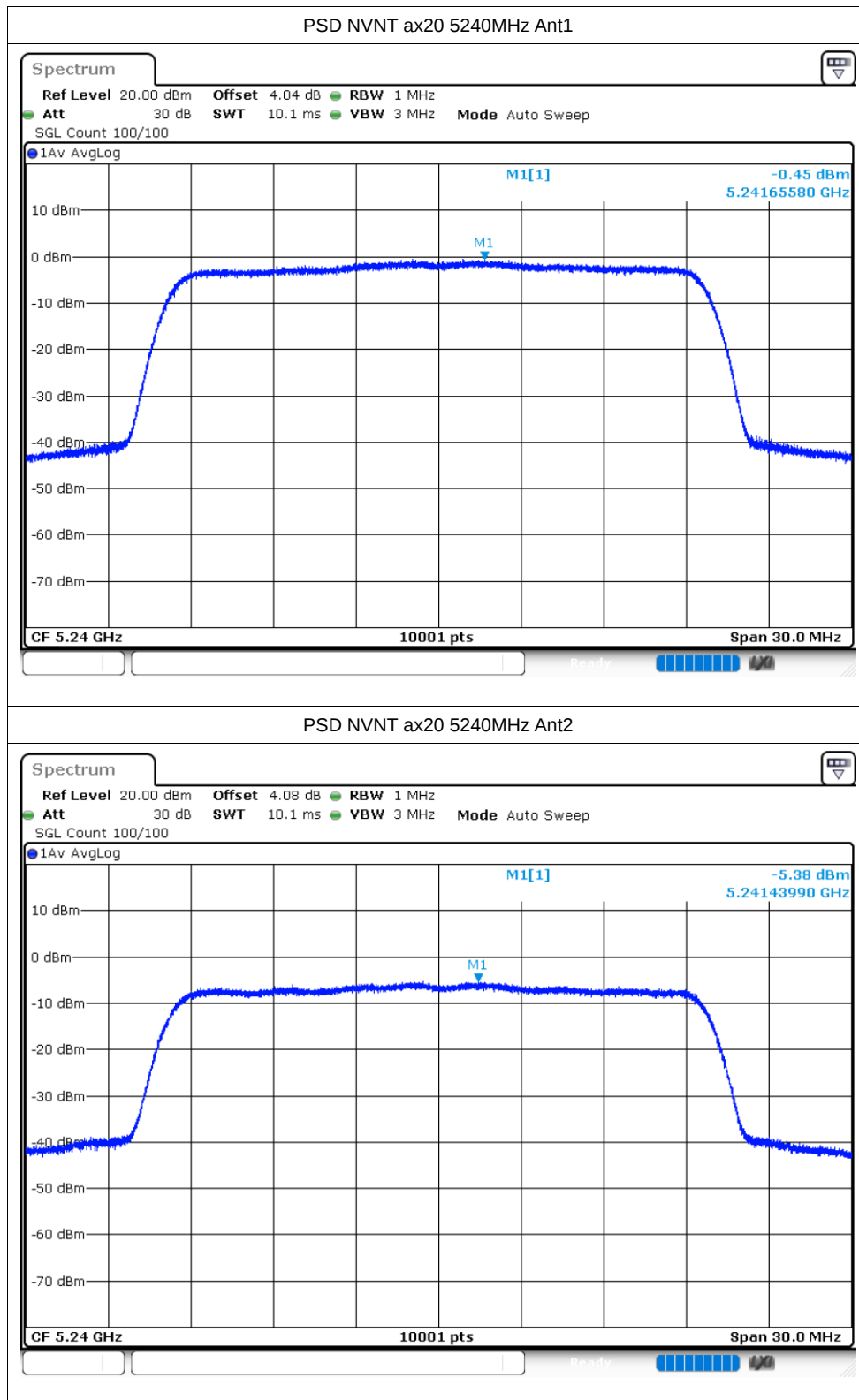


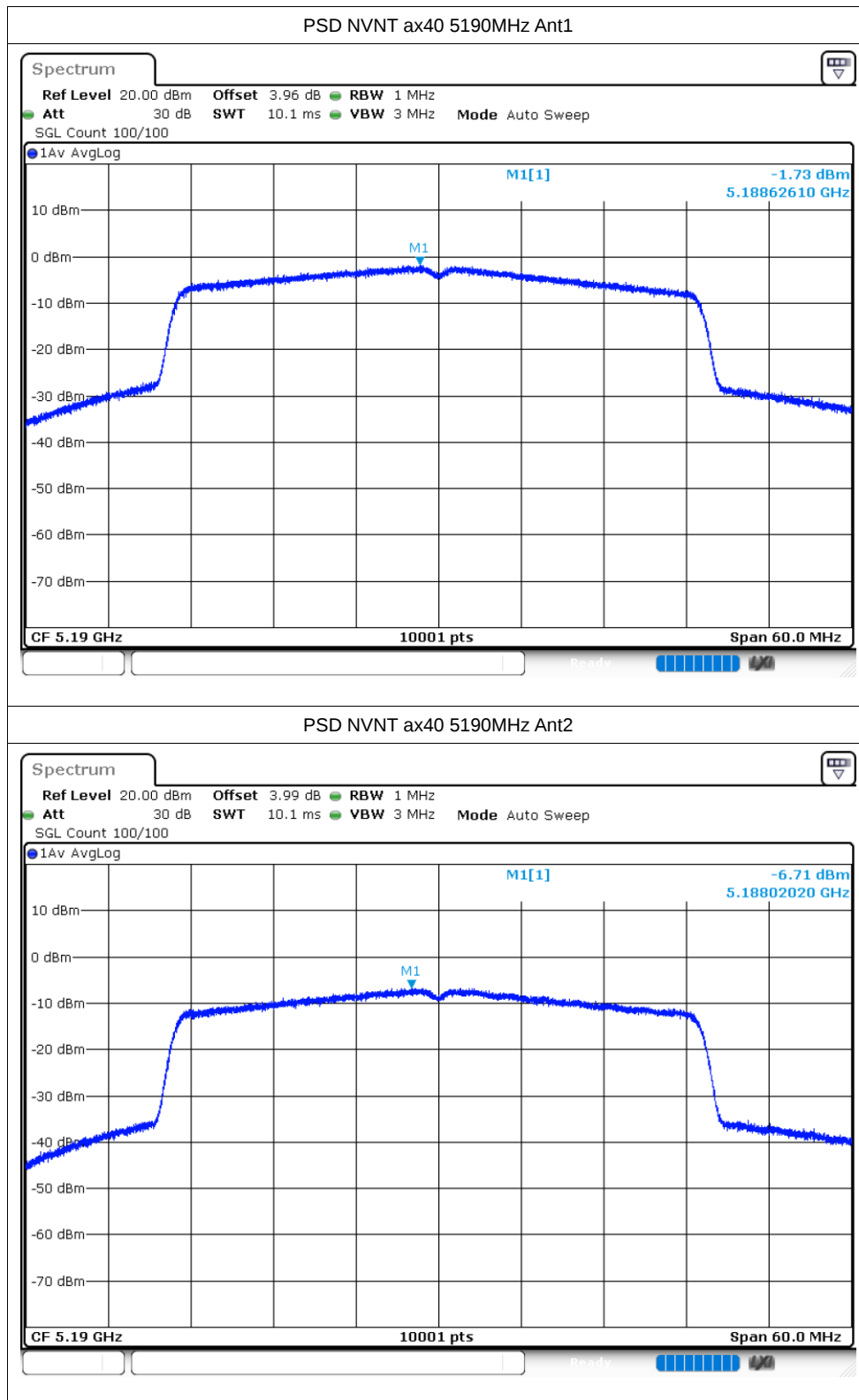


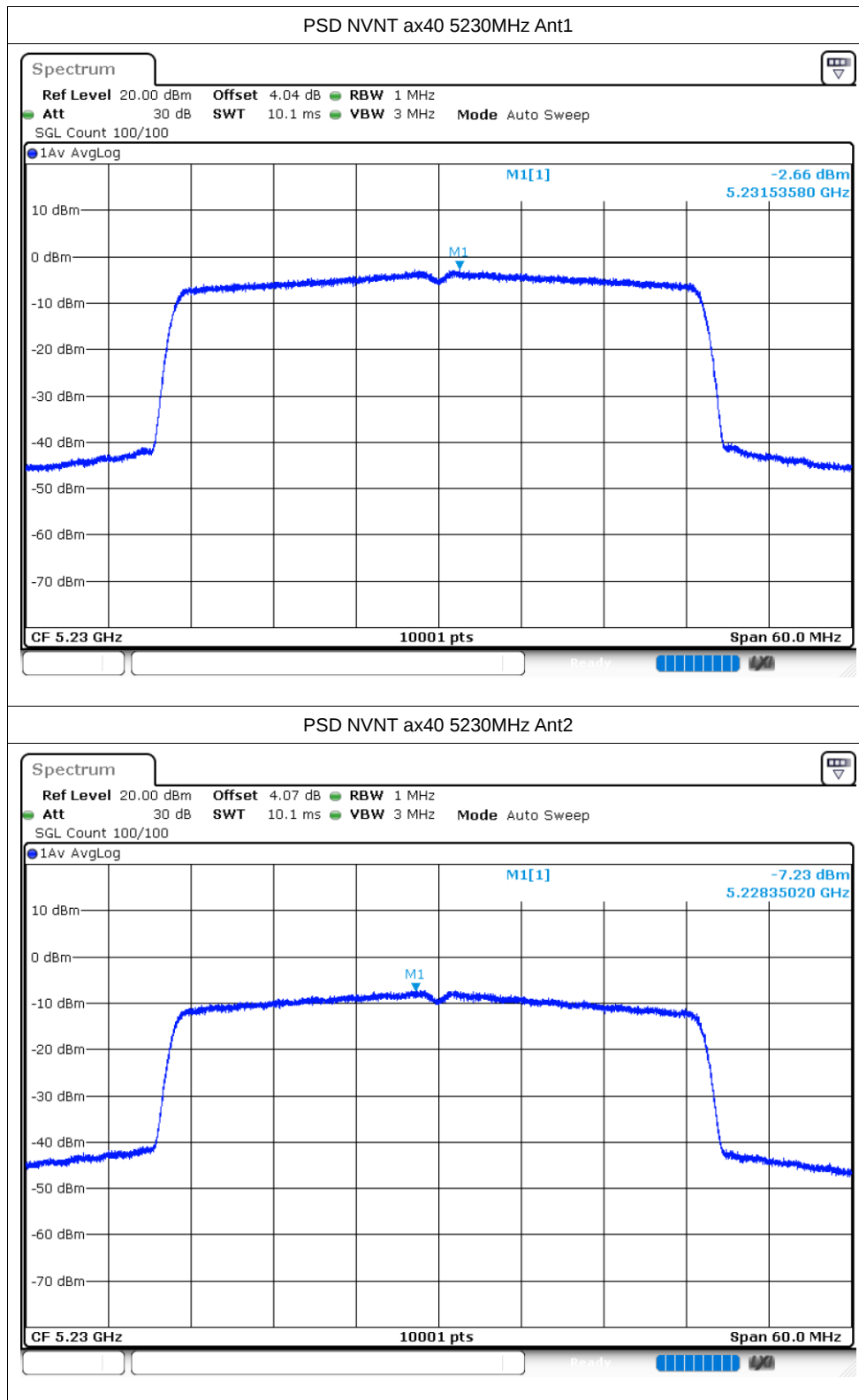


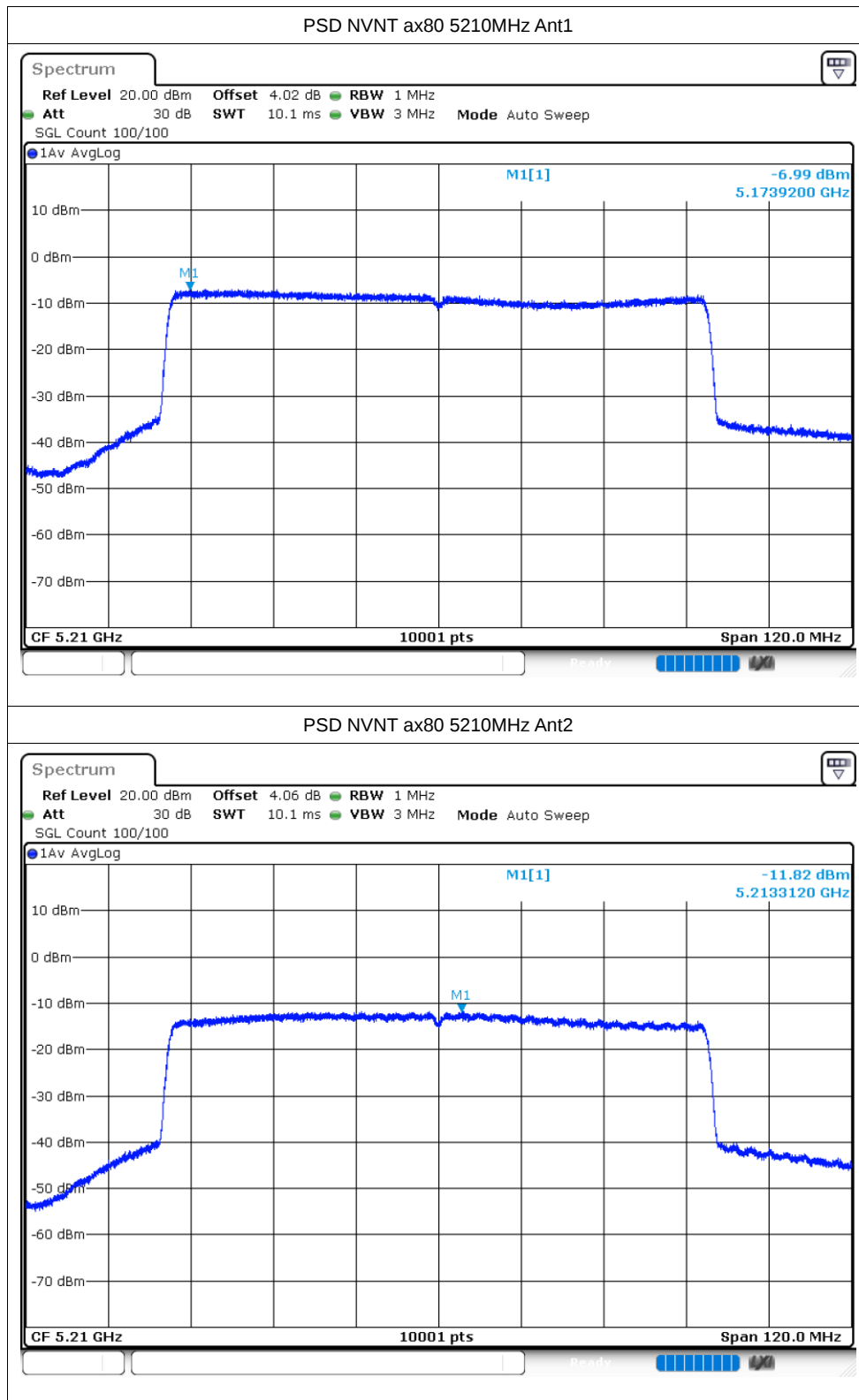


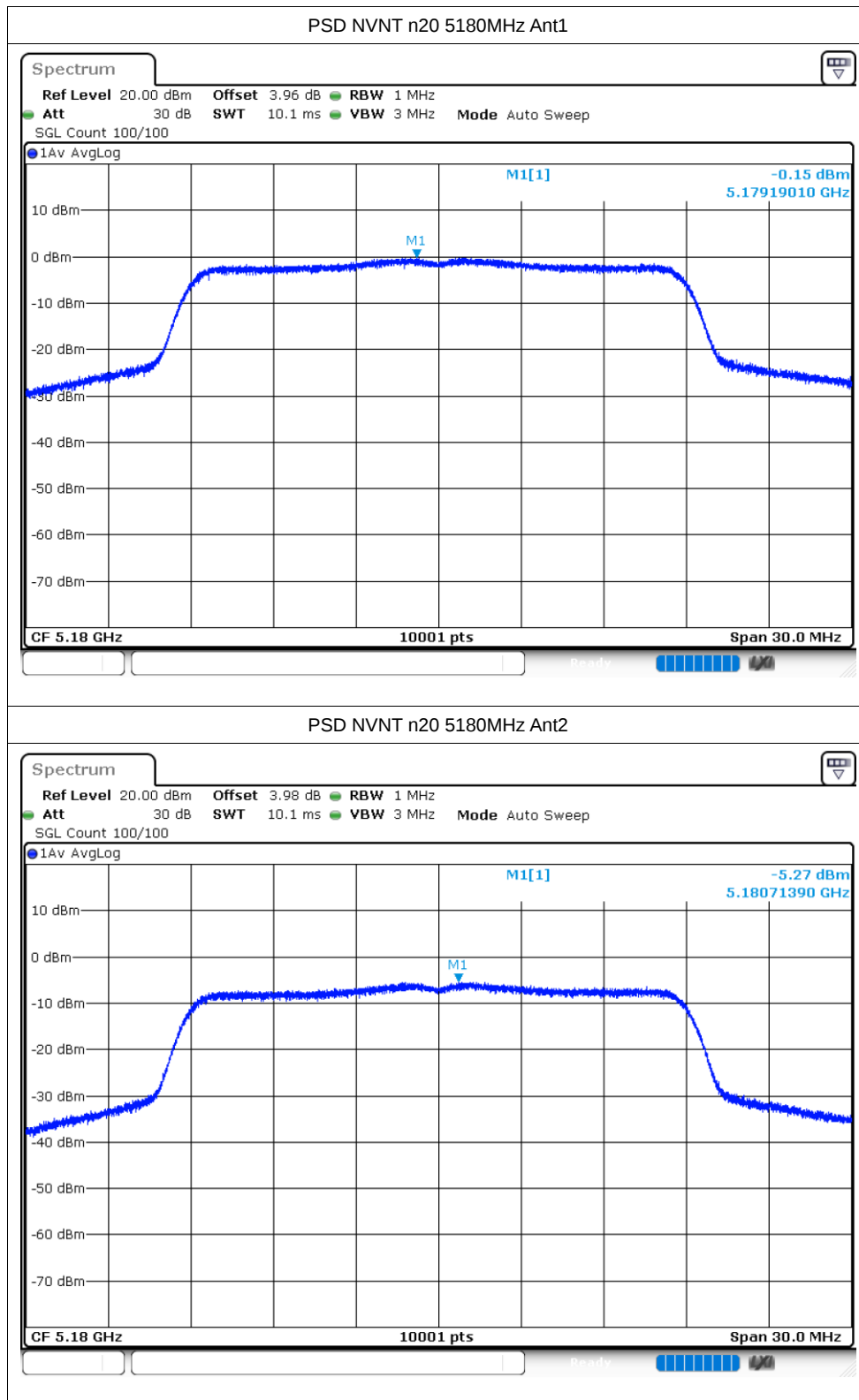


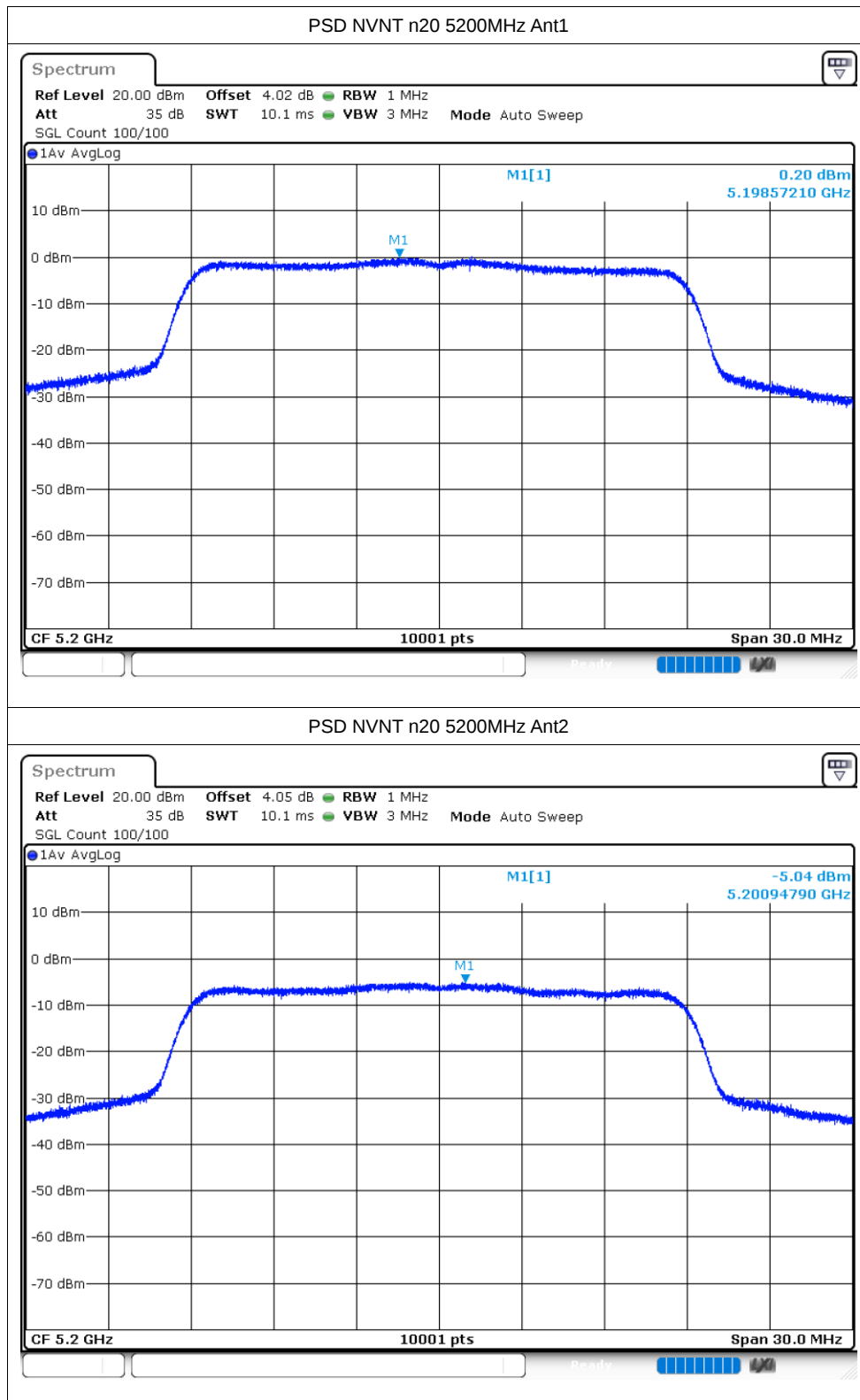


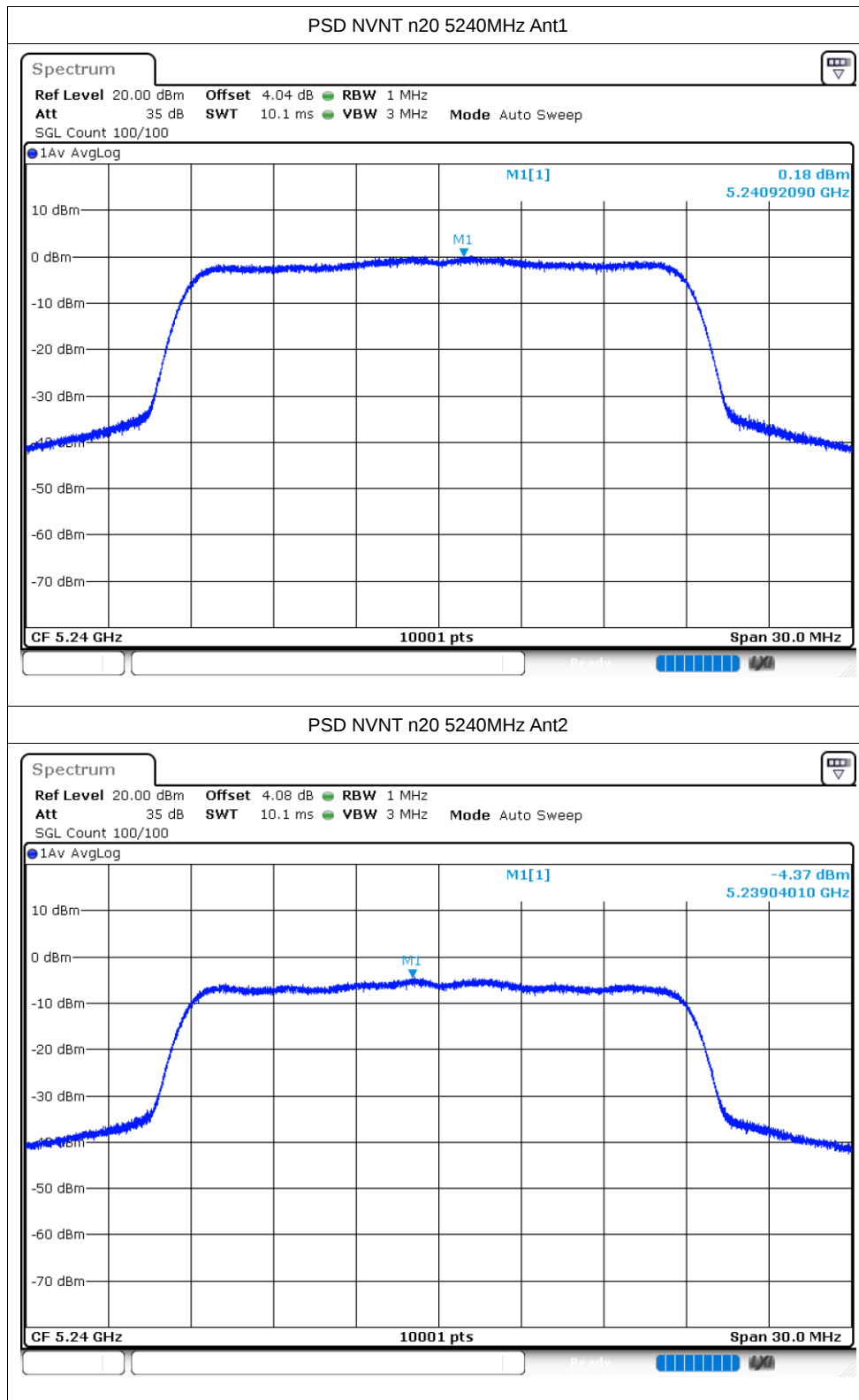


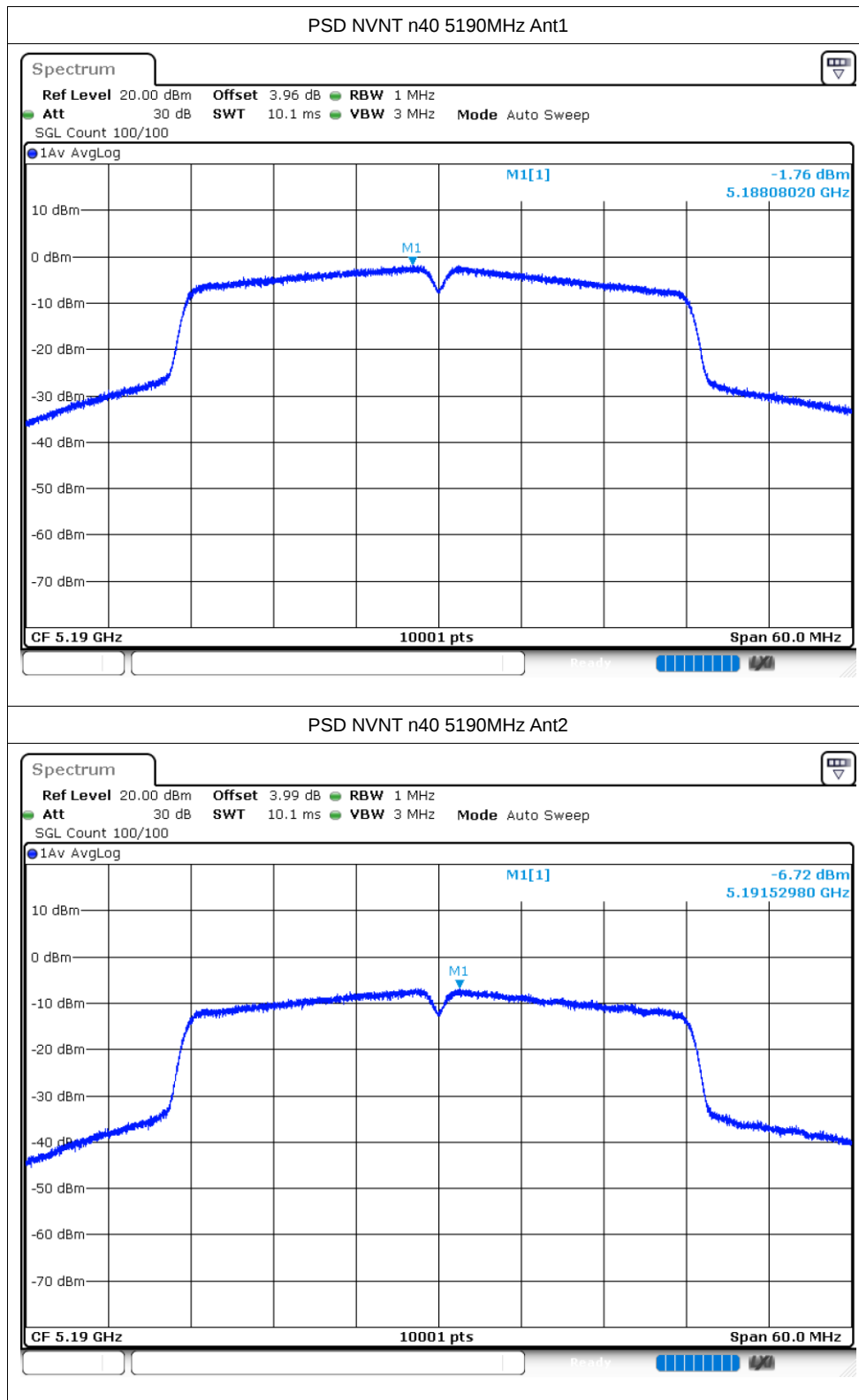


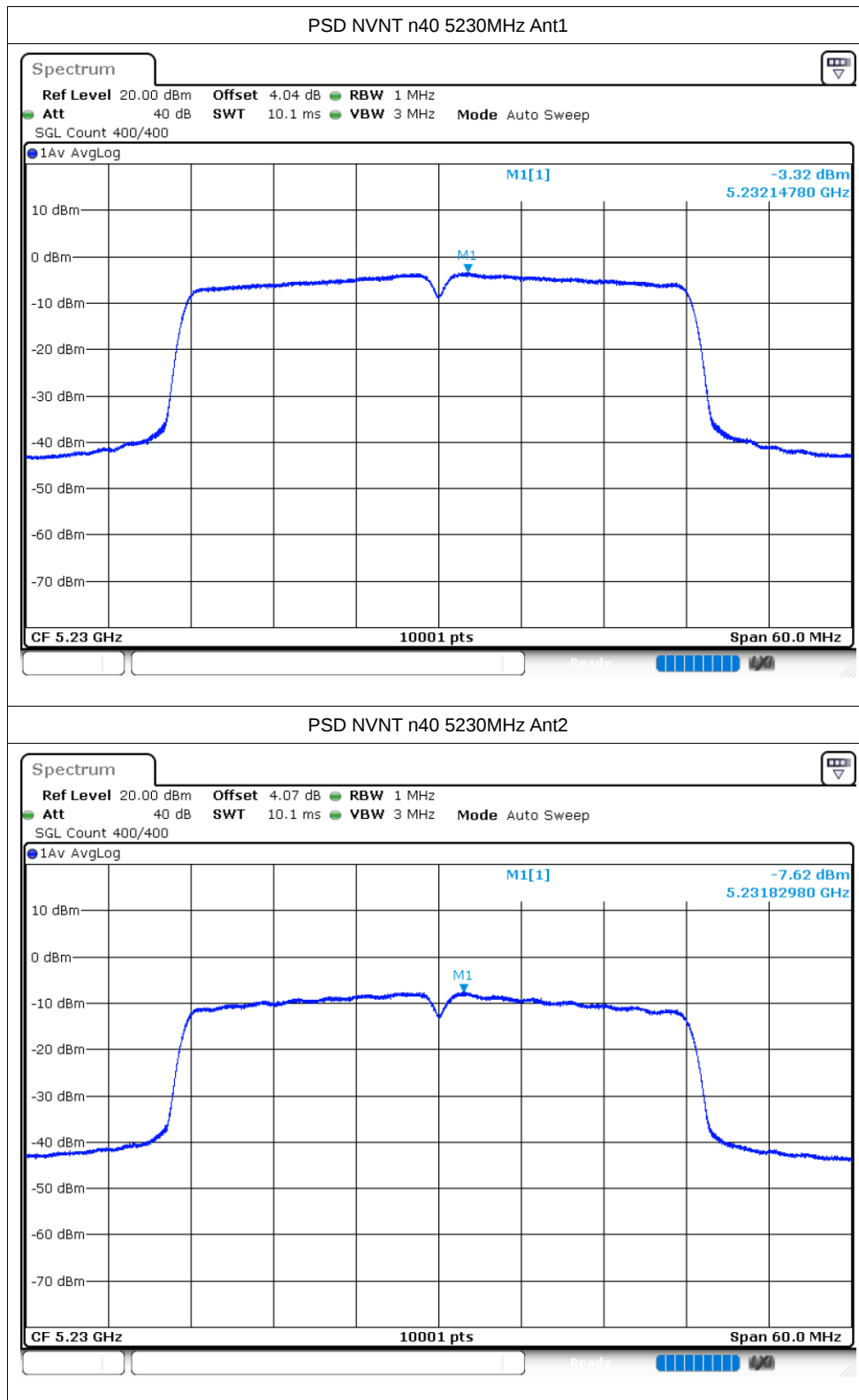












Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ac20	5180	Ant1	-34.13	-27	Pass
NVNT	ac20	5180	Ant2	-40.52	-27	Pass
NVNT	ac20	5240	Ant1	-41.2	-27	Pass
NVNT	ac20	5240	Ant2	-41.5	-27	Pass
NVNT	ac40	5190	Ant1	-35.44	-27	Pass
NVNT	ac40	5190	Ant2	-41.87	-27	Pass
NVNT	ac40	5230	Ant1	-42.55	-27	Pass
NVNT	ac40	5230	Ant2	-42.15	-27	Pass
NVNT	ac80	5210	Ant1	-33.15	-27	Pass
NVNT	ac80	5210	Ant2	-41.14	-27	Pass
NVNT	ac80	5210	Ant1	-42.46	-27	Pass
NVNT	ac80	5210	Ant2	-41.93	-27	Pass
NVNT	ax20	5180	Ant1	-32.96	-27	Pass
NVNT	ax20	5180	Ant2	-41.7	-27	Pass
NVNT	ax20	5240	Ant1	-41.54	-27	Pass
NVNT	ax20	5240	Ant2	-41.64	-27	Pass
NVNT	ax40	5190	Ant1	-34.62	-27	Pass
NVNT	ax40	5190	Ant2	-41.31	-27	Pass
NVNT	ax40	5230	Ant1	-41.5	-27	Pass
NVNT	ax40	5230	Ant2	-41.36	-27	Pass
NVNT	ax80	5210	Ant1	-31.78	-27	Pass
NVNT	ax80	5210	Ant2	-40.97	-27	Pass
NVNT	ax80	5210	Ant1	-42.67	-27	Pass
NVNT	ax80	5210	Ant2	-42.01	-27	Pass
NVNT	n20	5180	Ant1	-37.98	-27	Pass
NVNT	n20	5180	Ant2	-41.26	-27	Pass
NVNT	n20	5240	Ant1	-41.36	-27	Pass
NVNT	n20	5240	Ant2	-41.89	-27	Pass
NVNT	n40	5190	Ant1	-34.49	-27	Pass
NVNT	n40	5190	Ant2	-39.88	-27	Pass
NVNT	n40	5230	Ant1	-45.24	-27	Pass
NVNT	n40	5230	Ant2	-46.24	-27	Pass

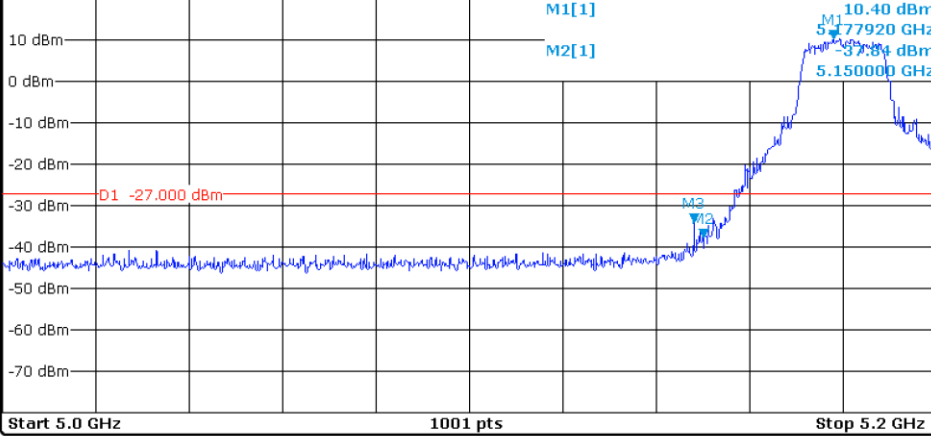
Test Graphs

Band Edge NVNT ac20 5180MHz Low Ant1

Spectrum

Ref Level 20.00 dBm Offset 5.46 dB RBW 1 MHz
Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Marker

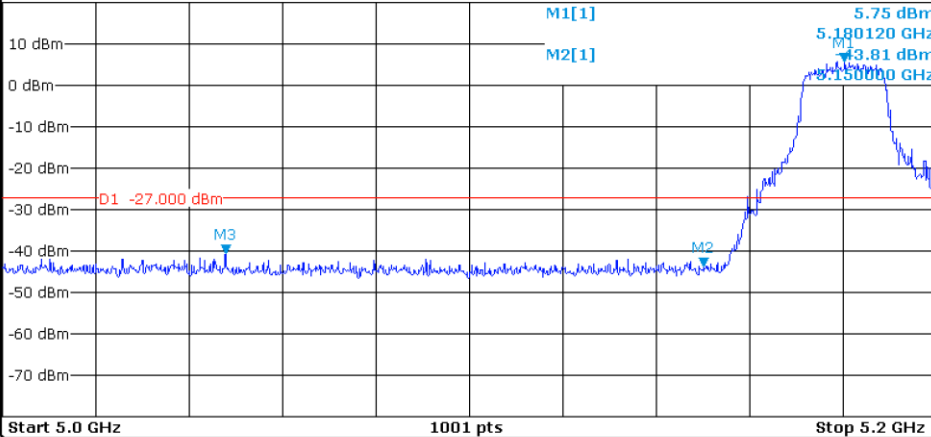
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.17792 GHz	10.40 dBm		
M2	1		5.15 GHz	-37.84 dBm		
M3	1		5.148 GHz	-34.14 dBm		

Band Edge NVNT ac20 5180MHz Low Ant2

Spectrum

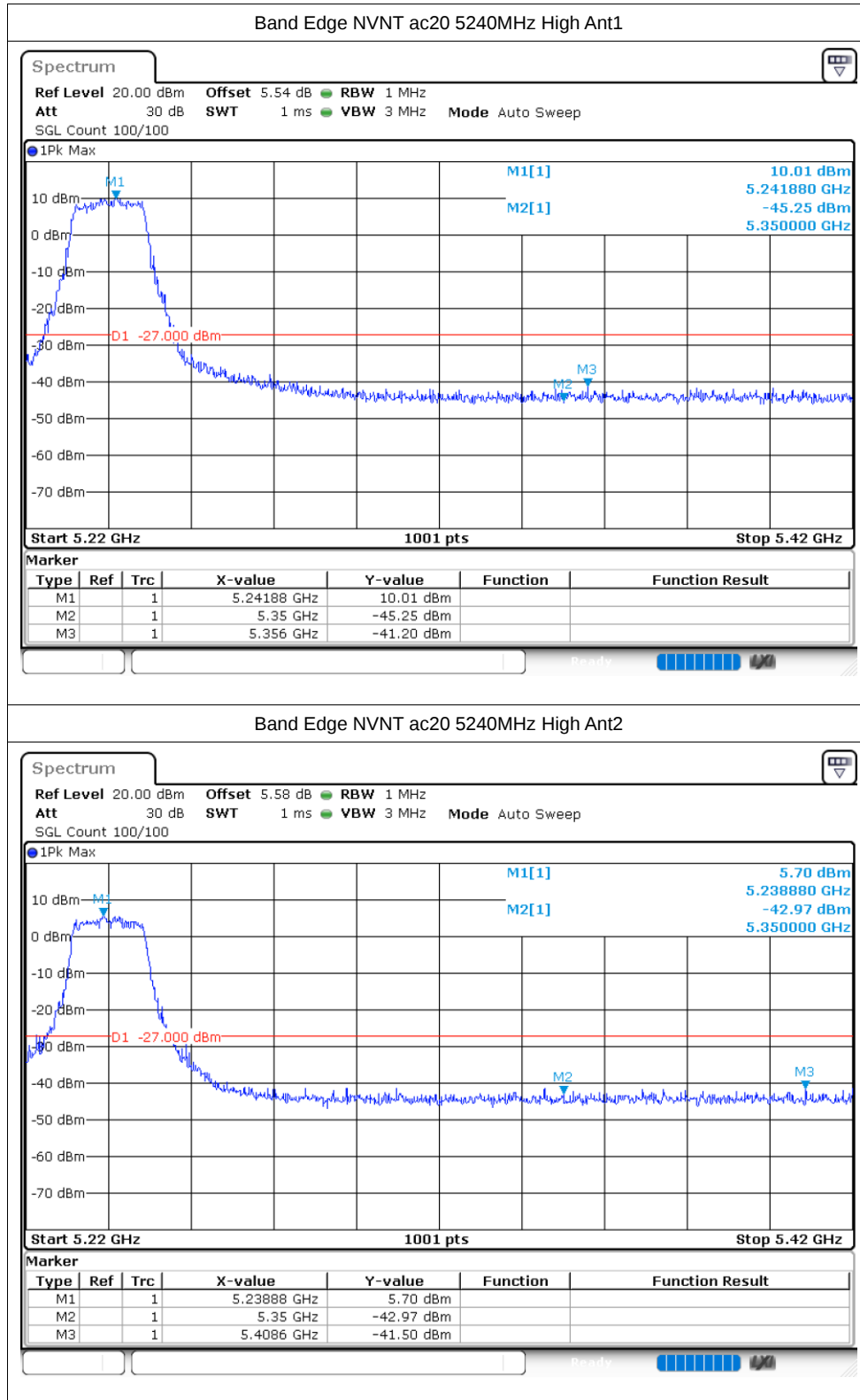
Ref Level 20.00 dBm Offset 5.48 dB RBW 1 MHz
Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep
SGL Count 100/100

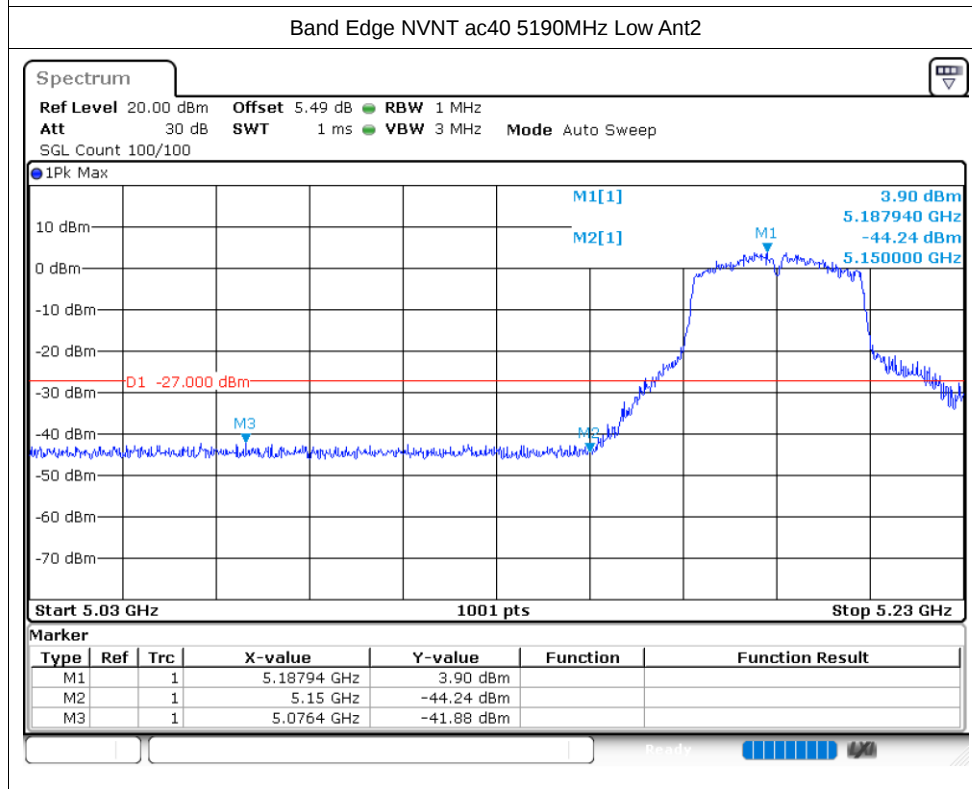
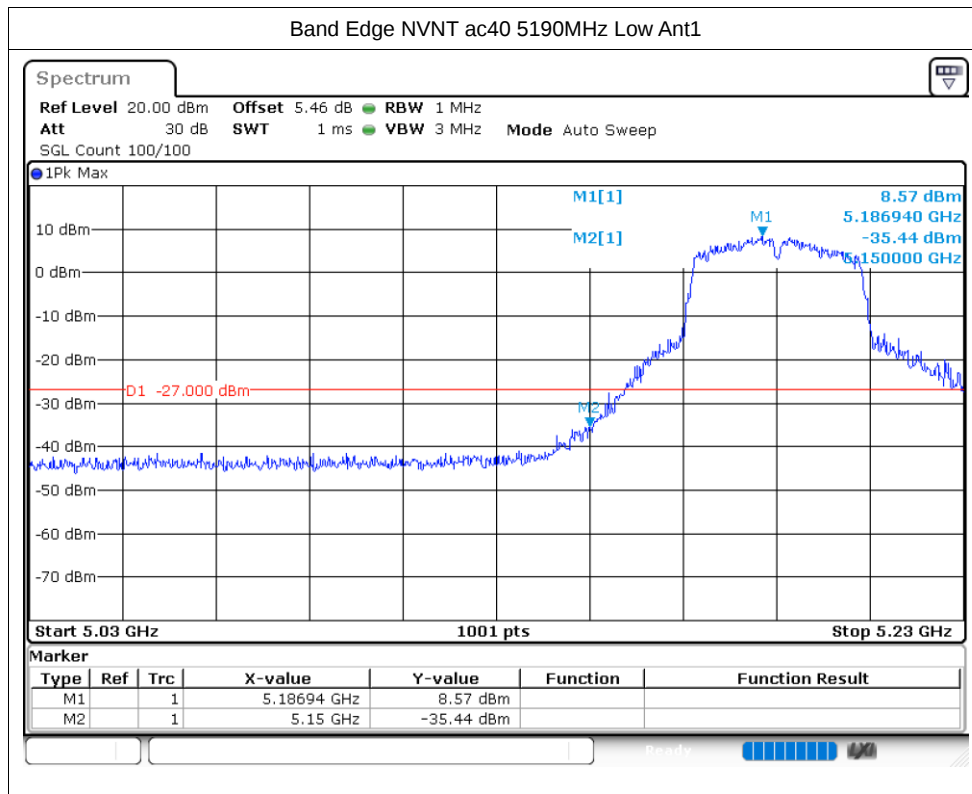
1Pk Max

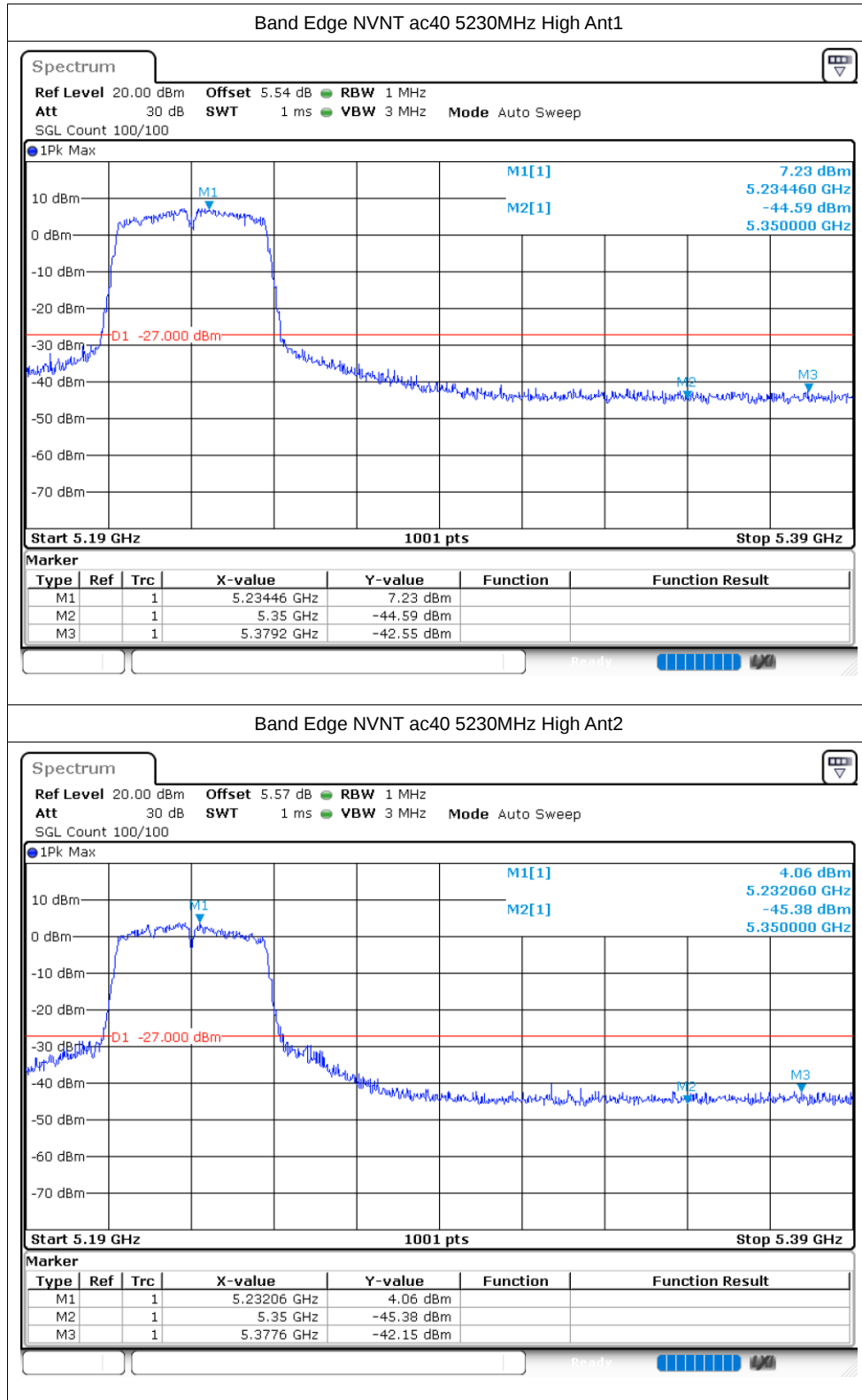


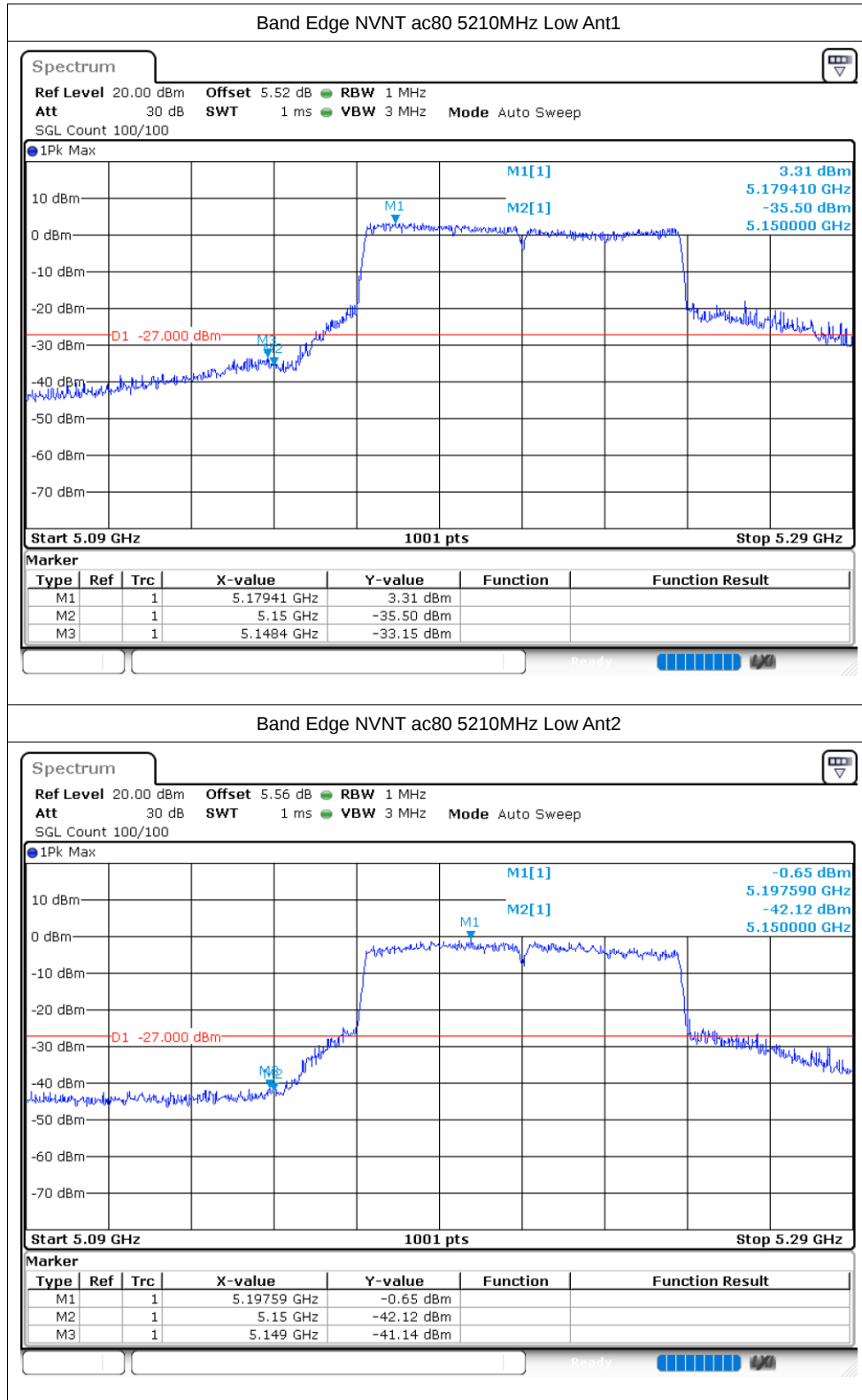
Marker

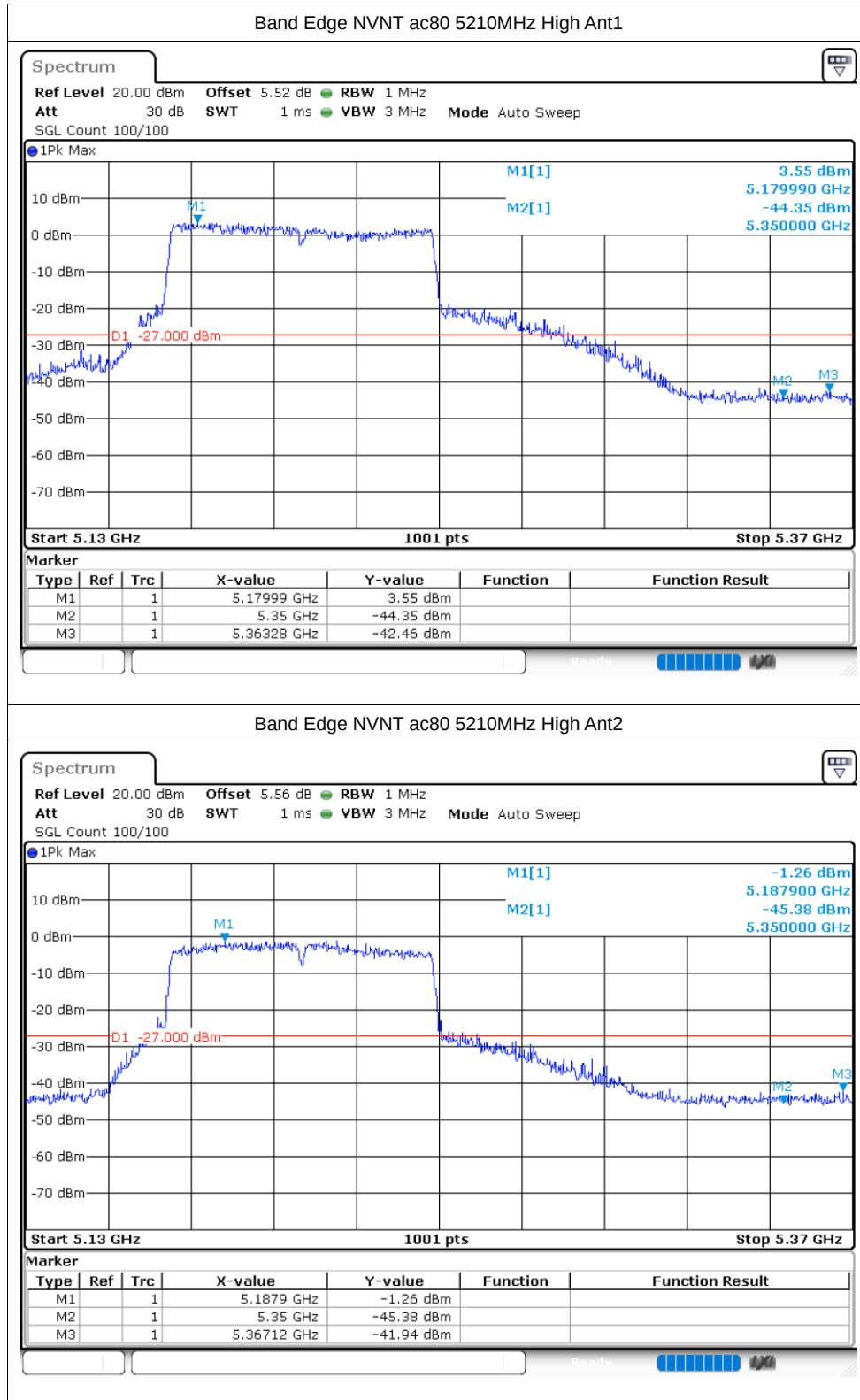
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.18012 GHz	5.75 dBm		
M2	1		5.15 GHz	-43.81 dBm		
M3	1		5.0478 GHz	-40.52 dBm		

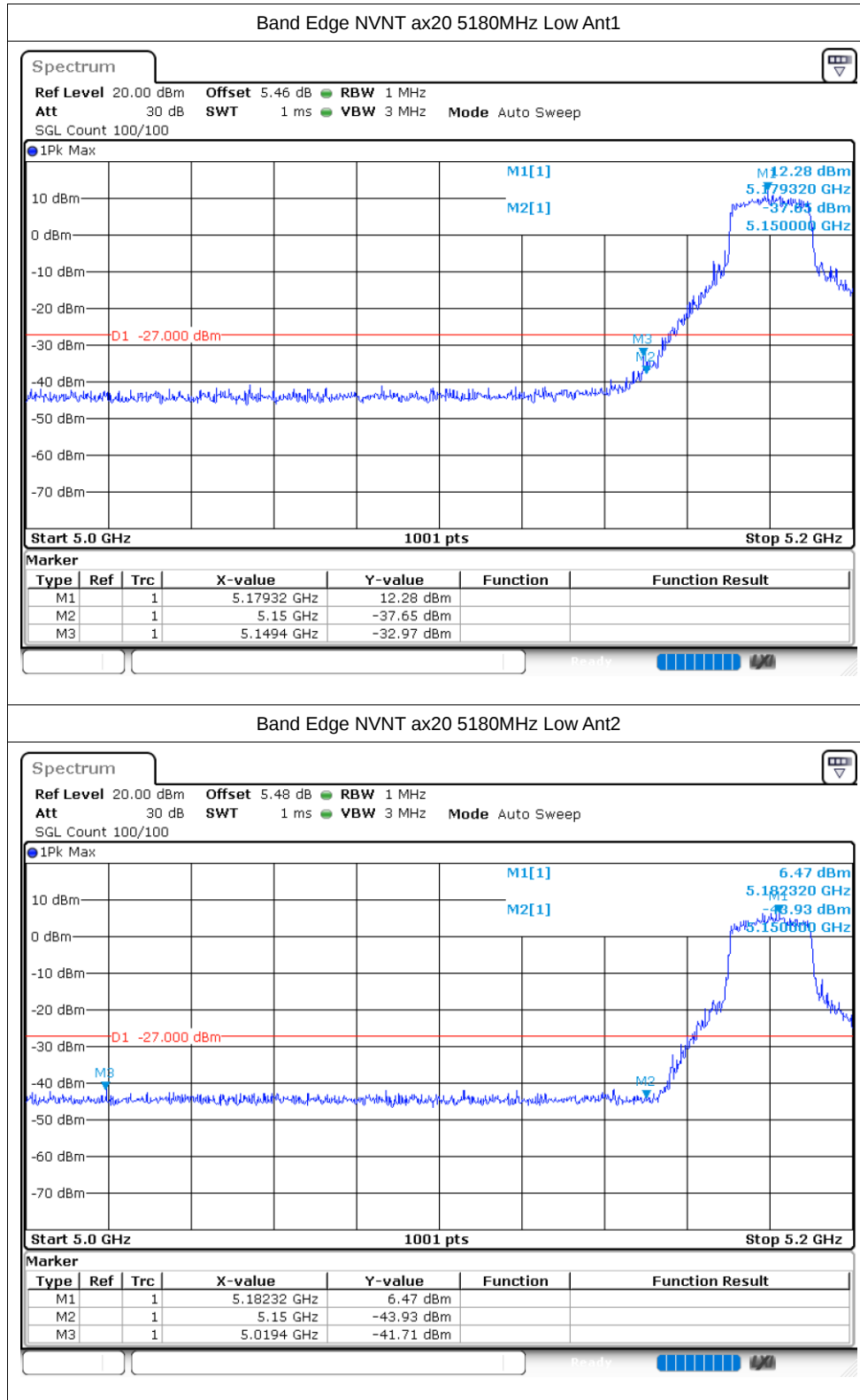


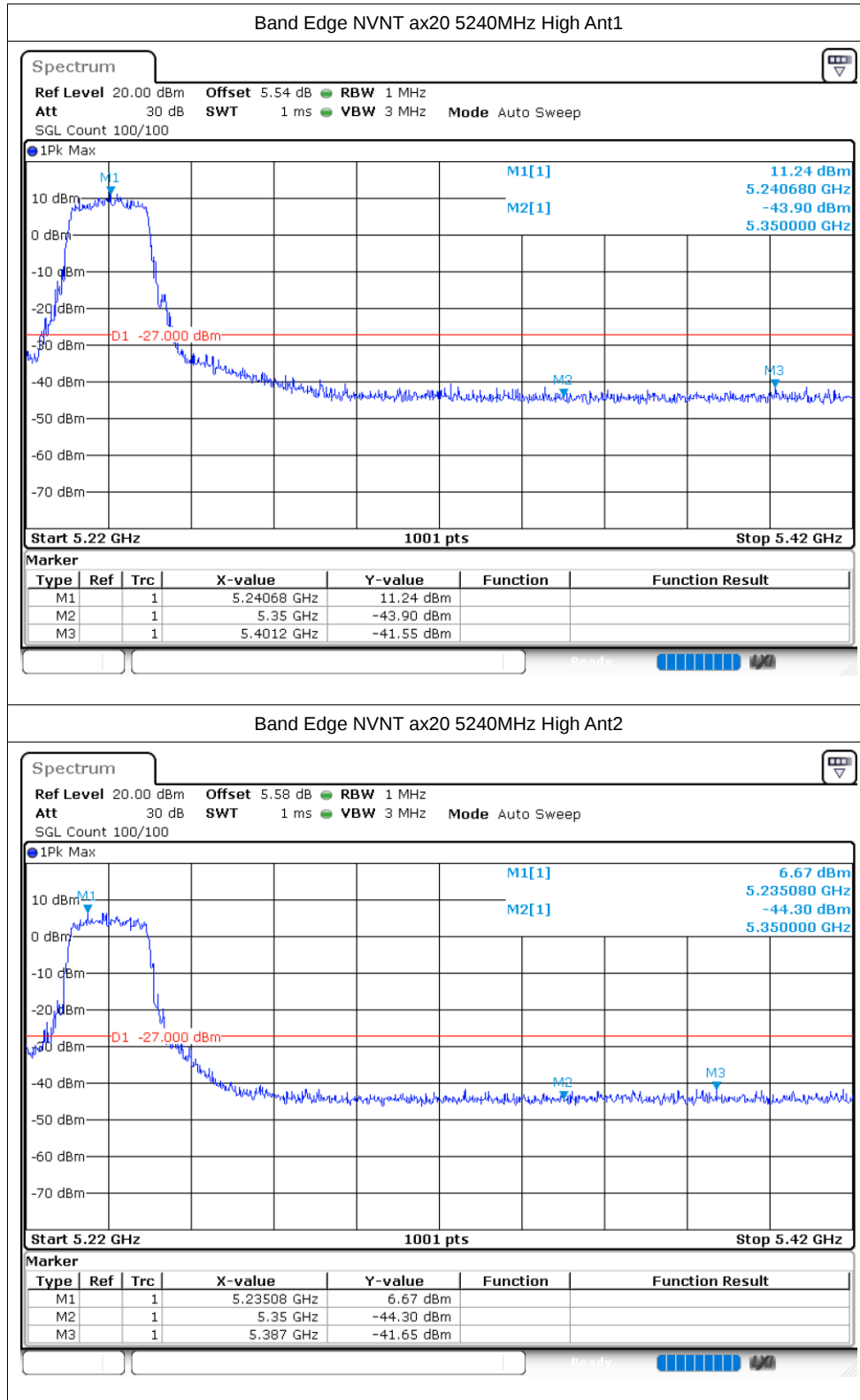


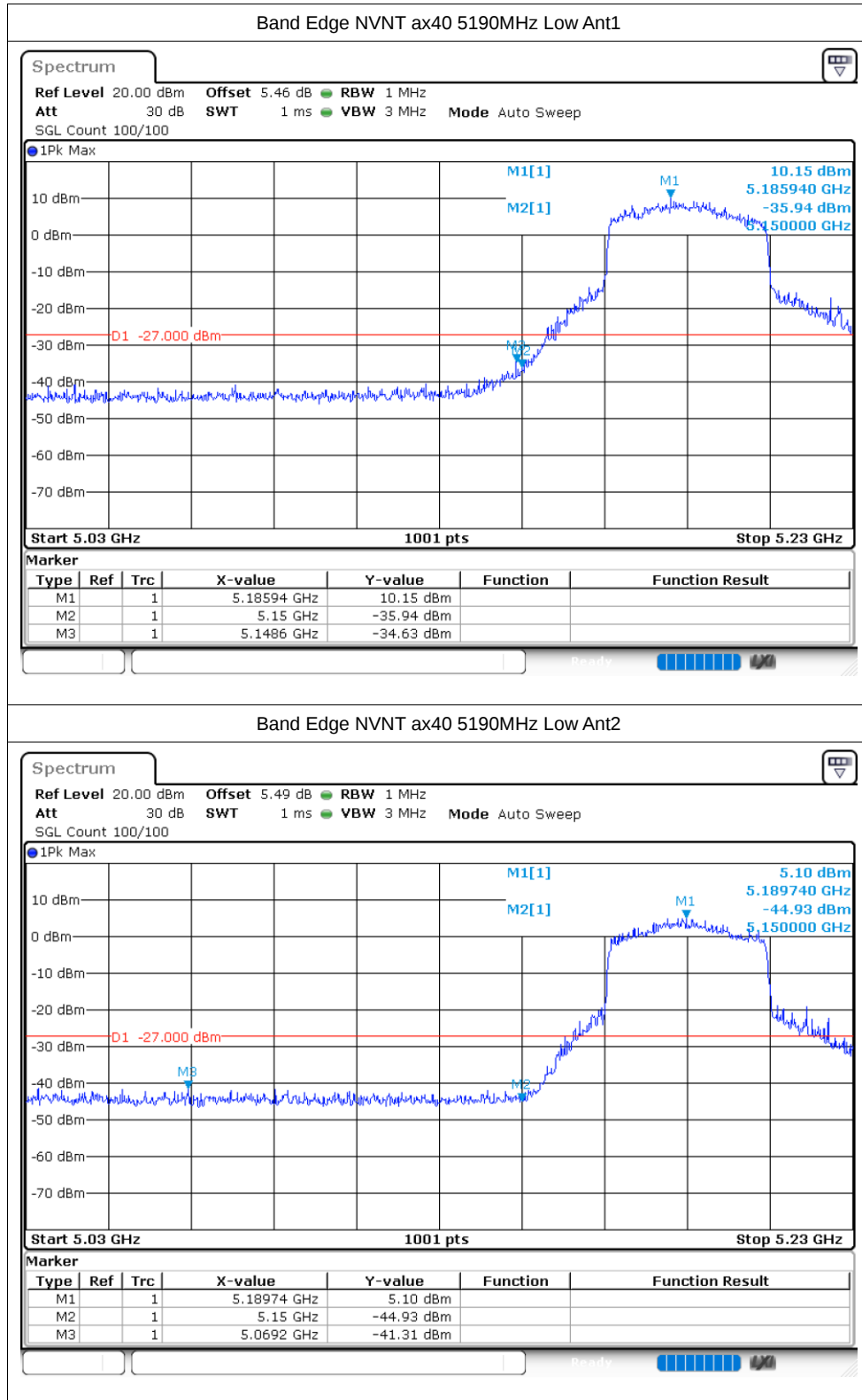


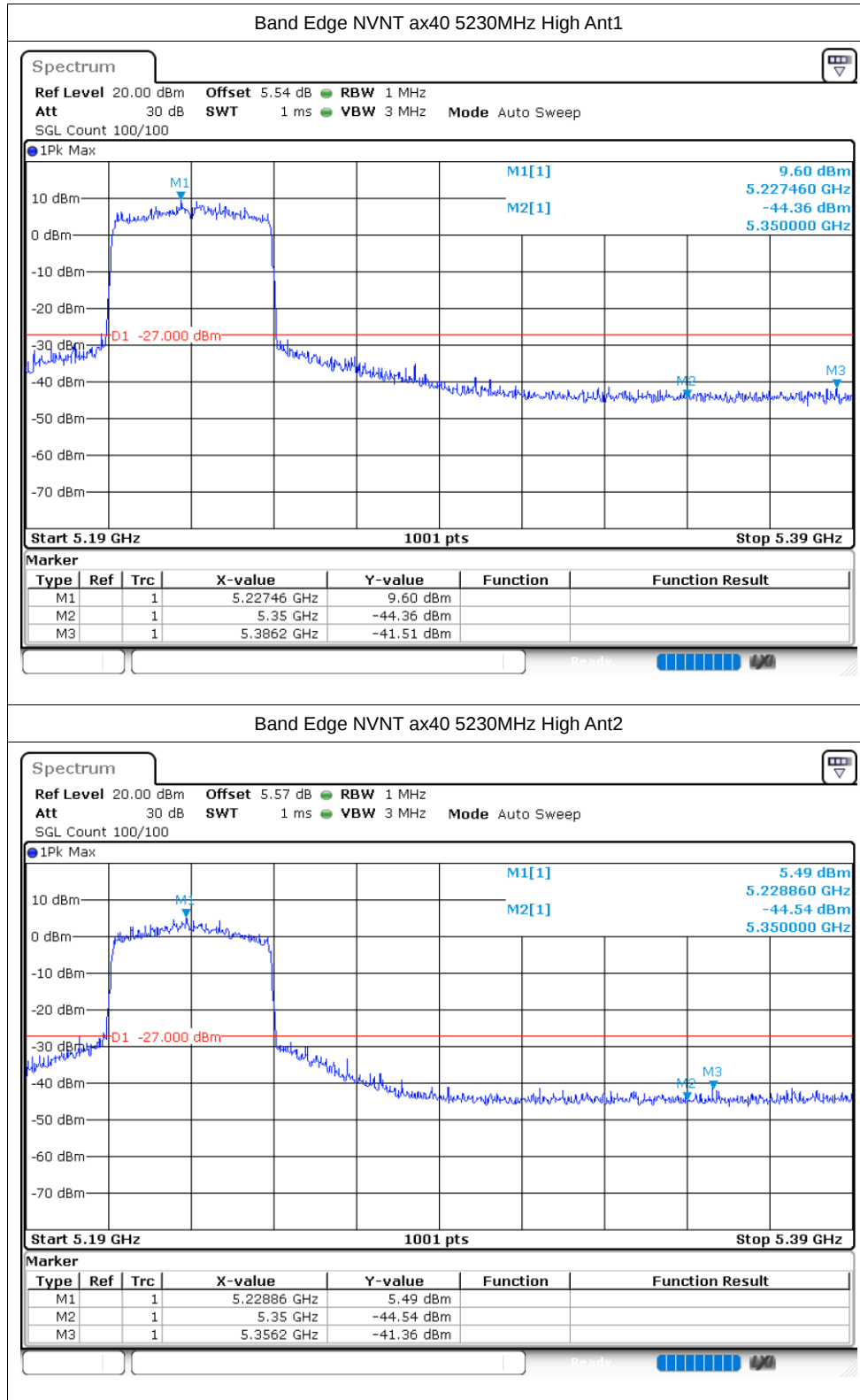


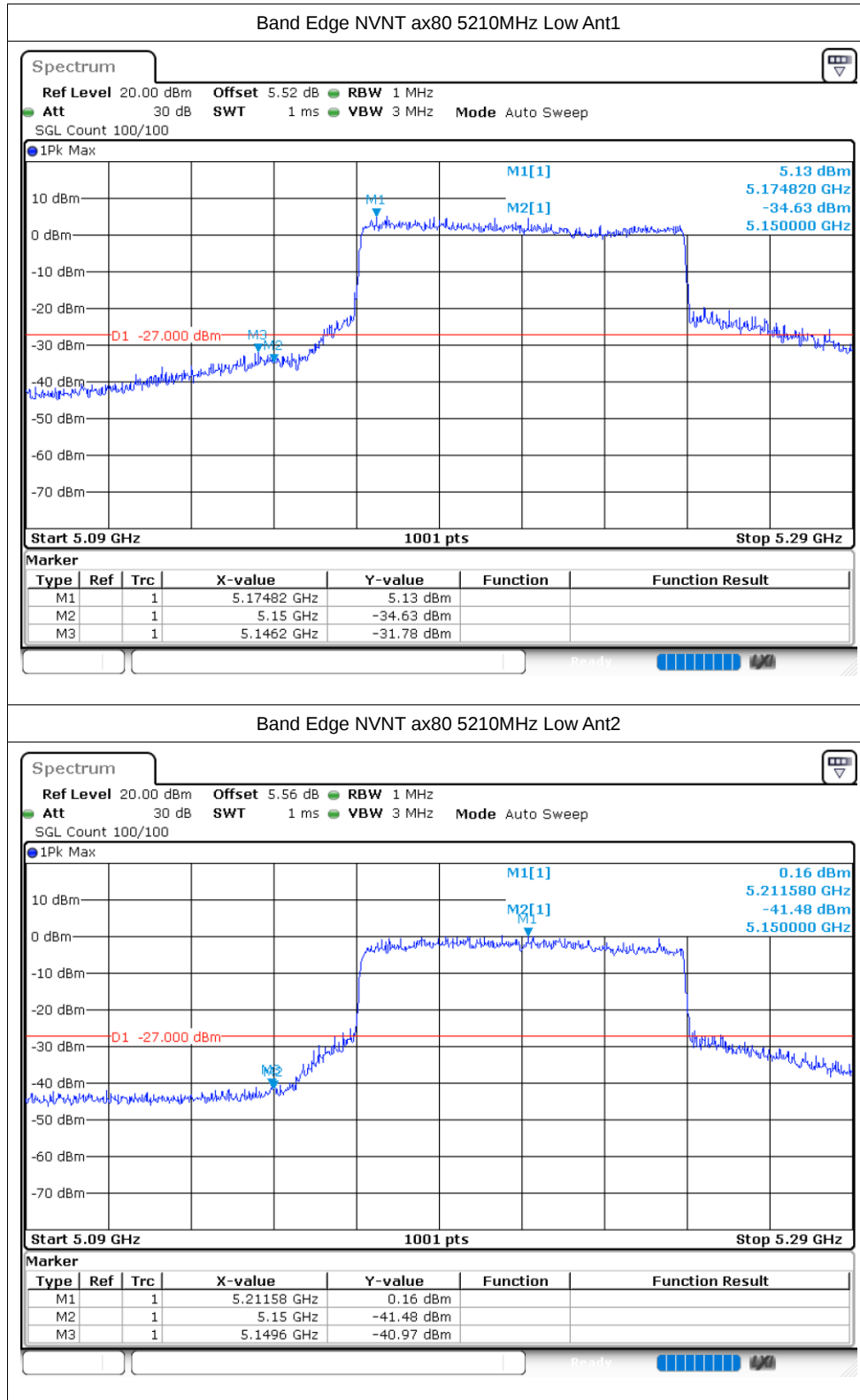


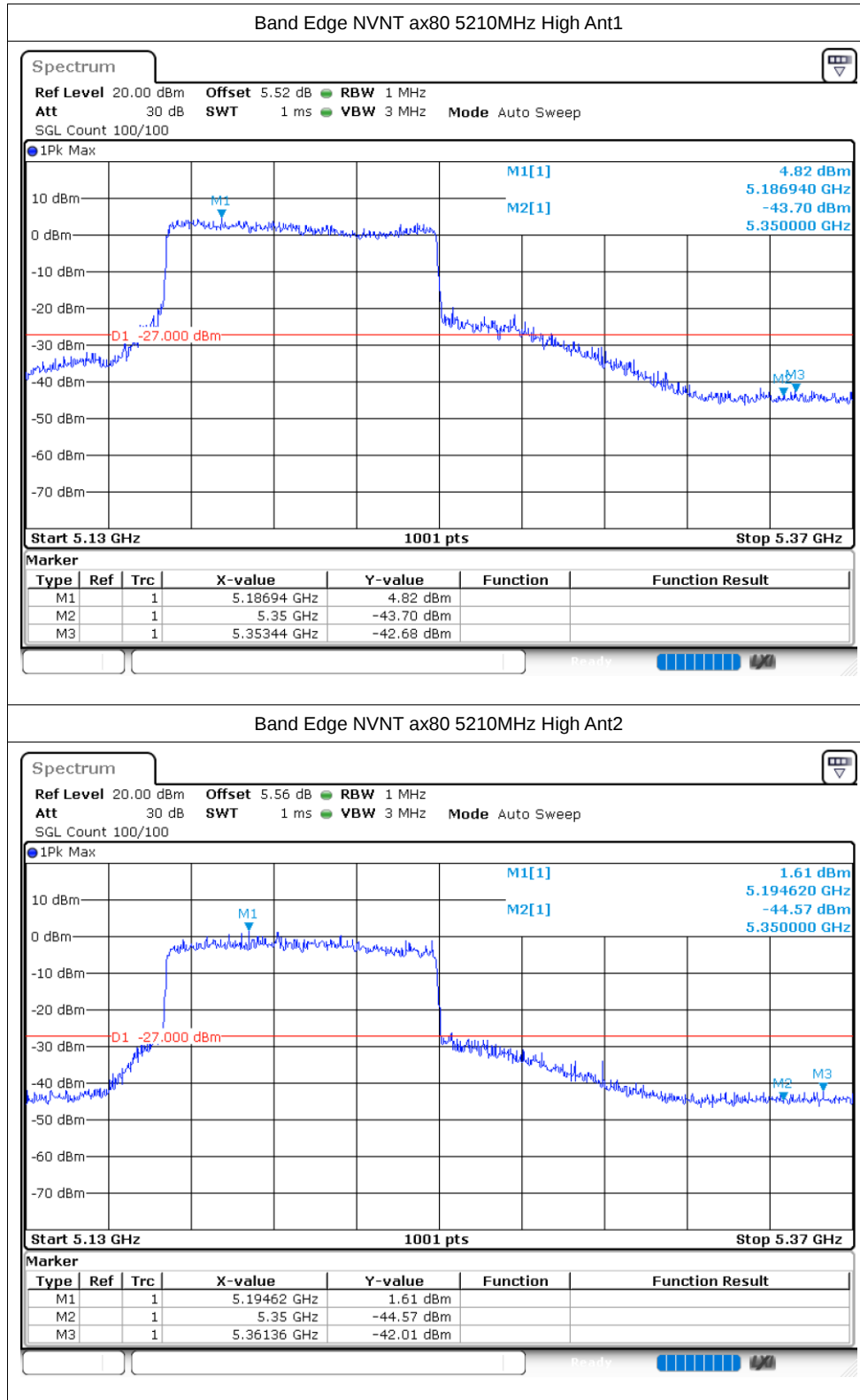


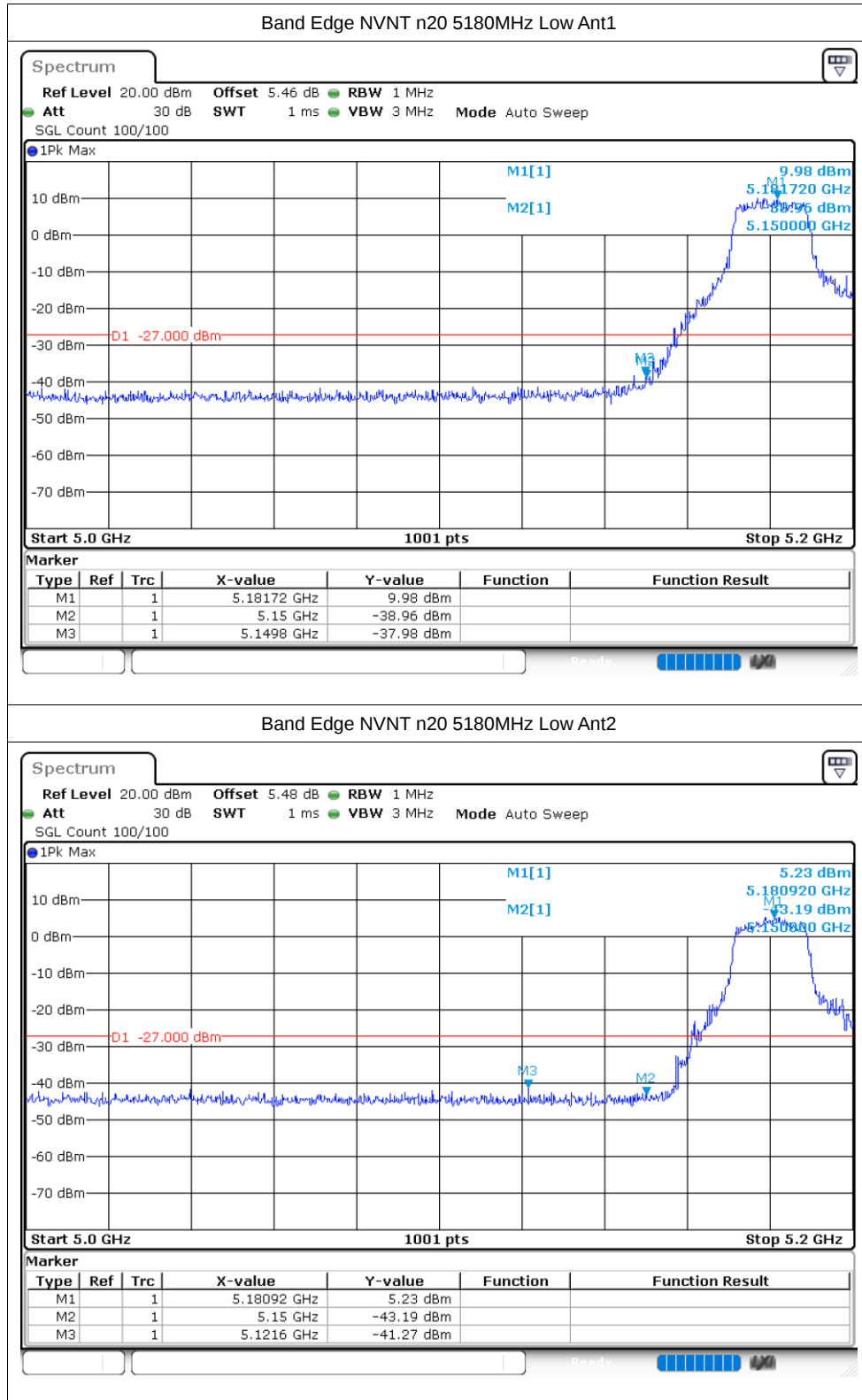


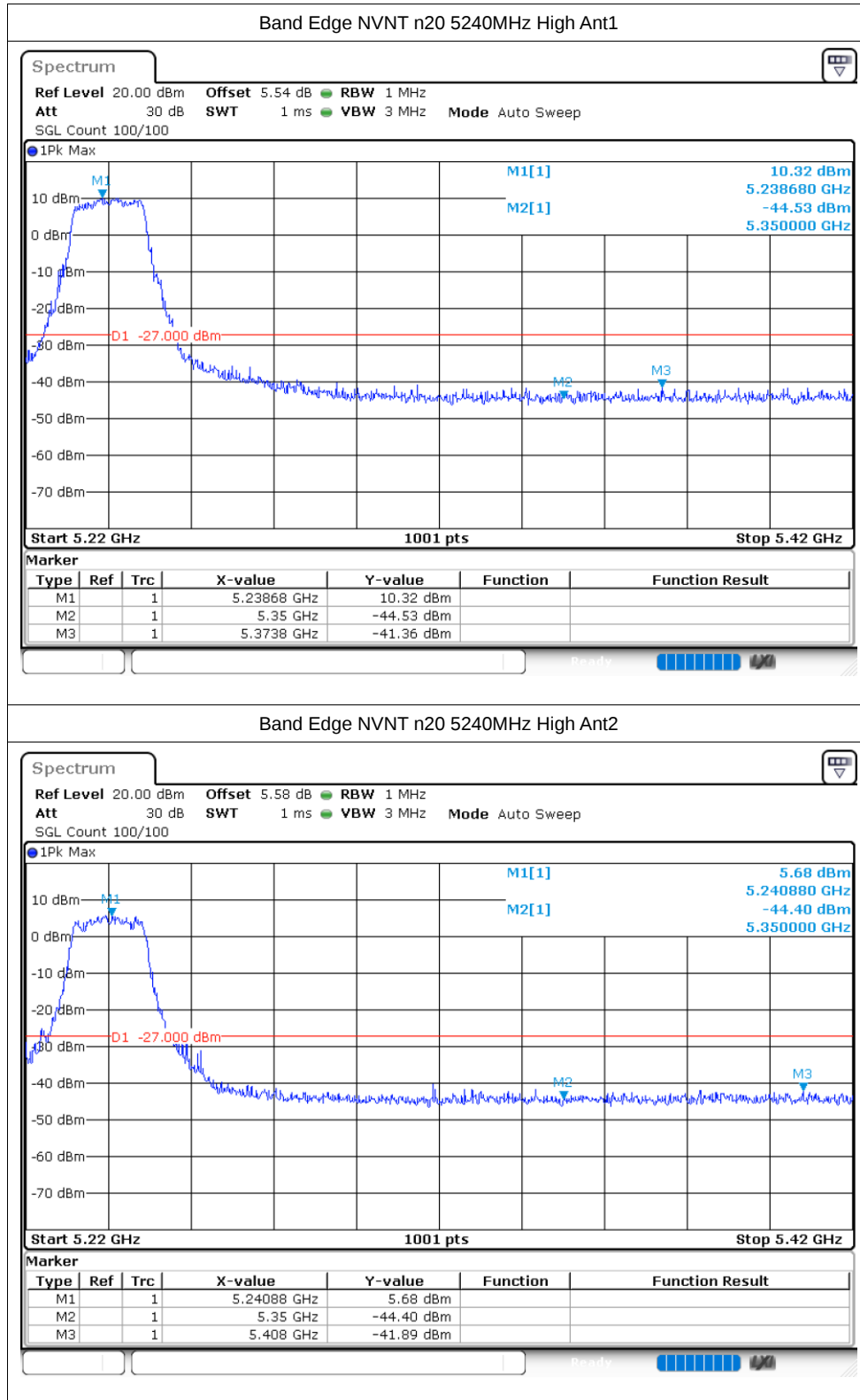


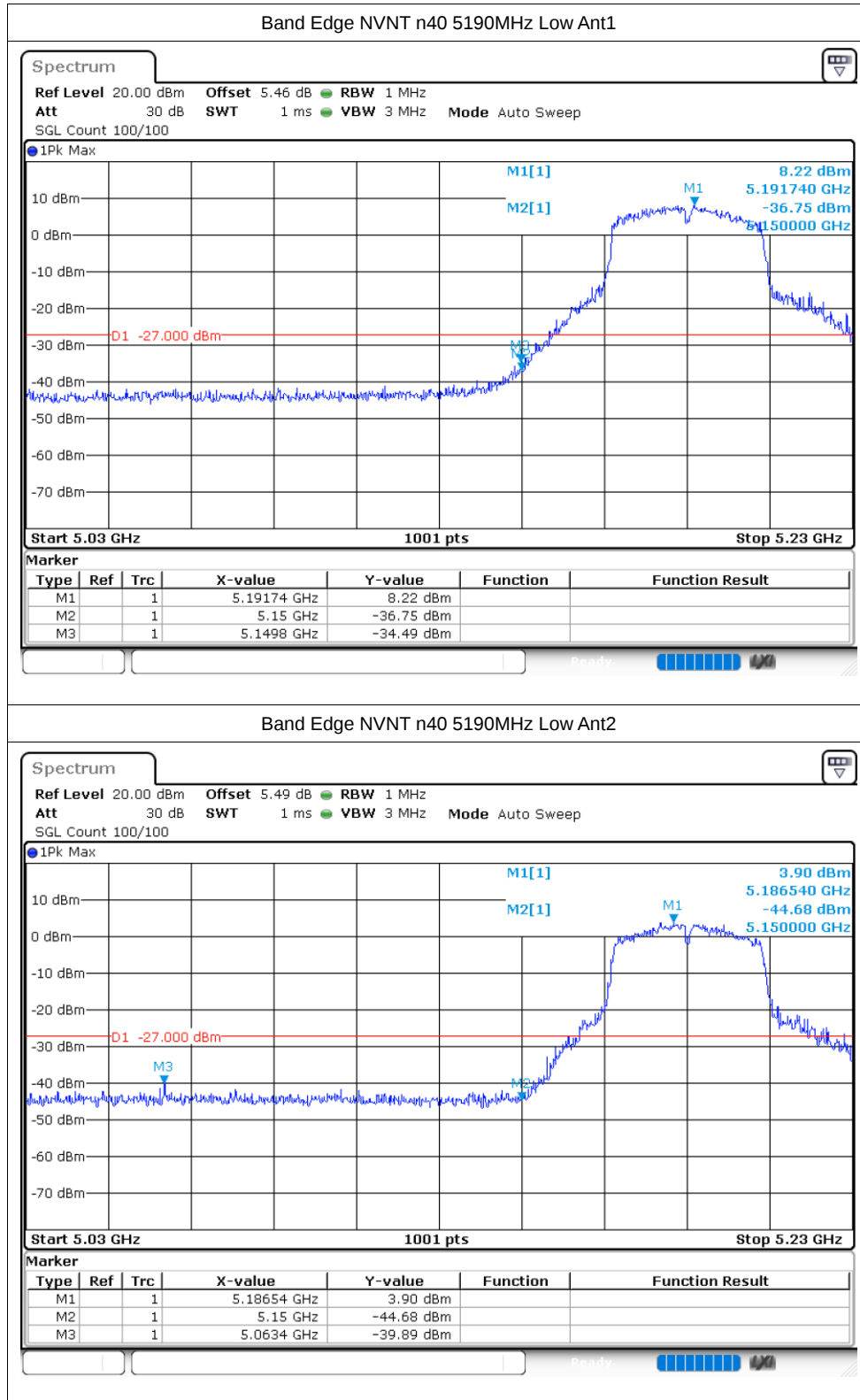


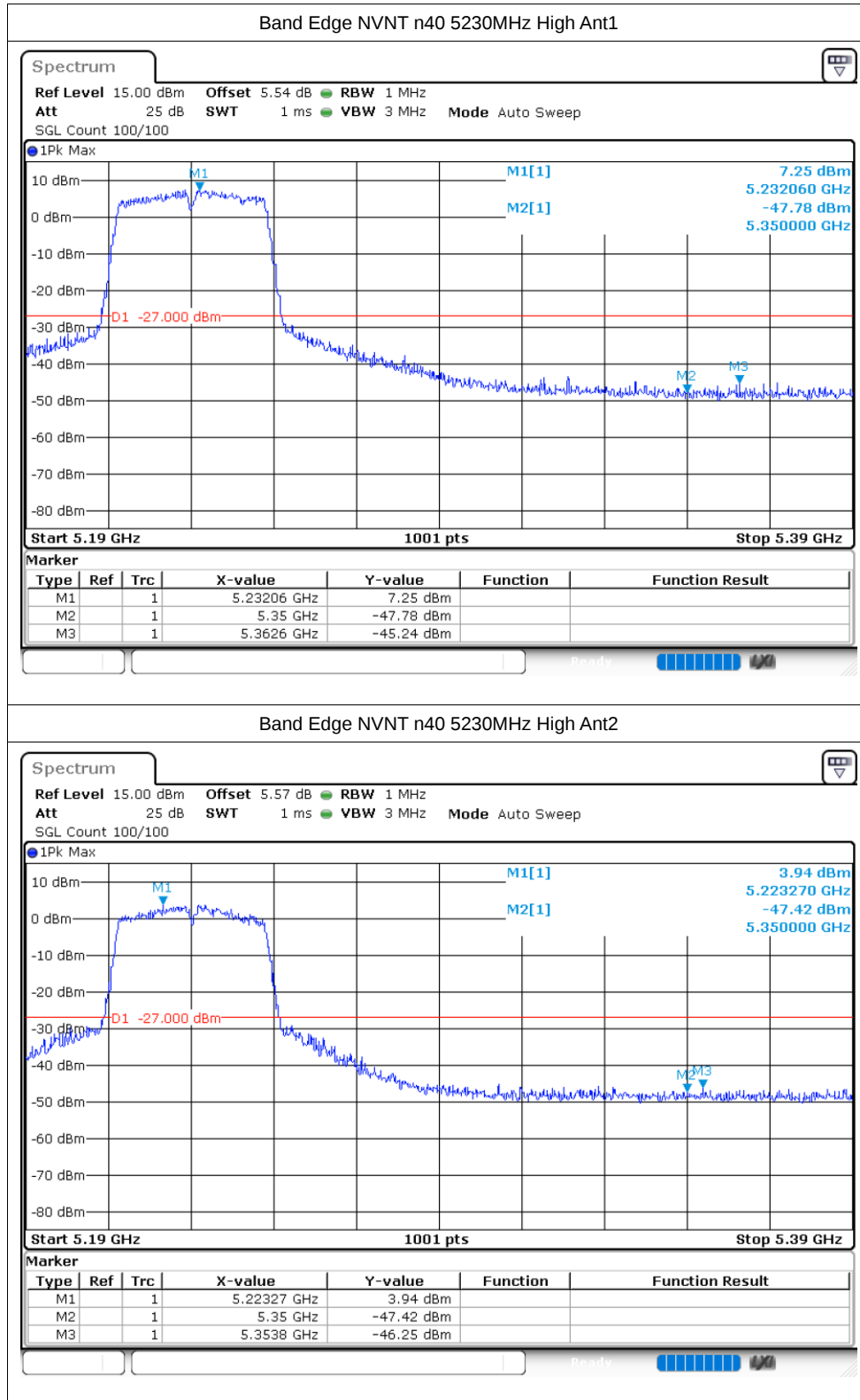










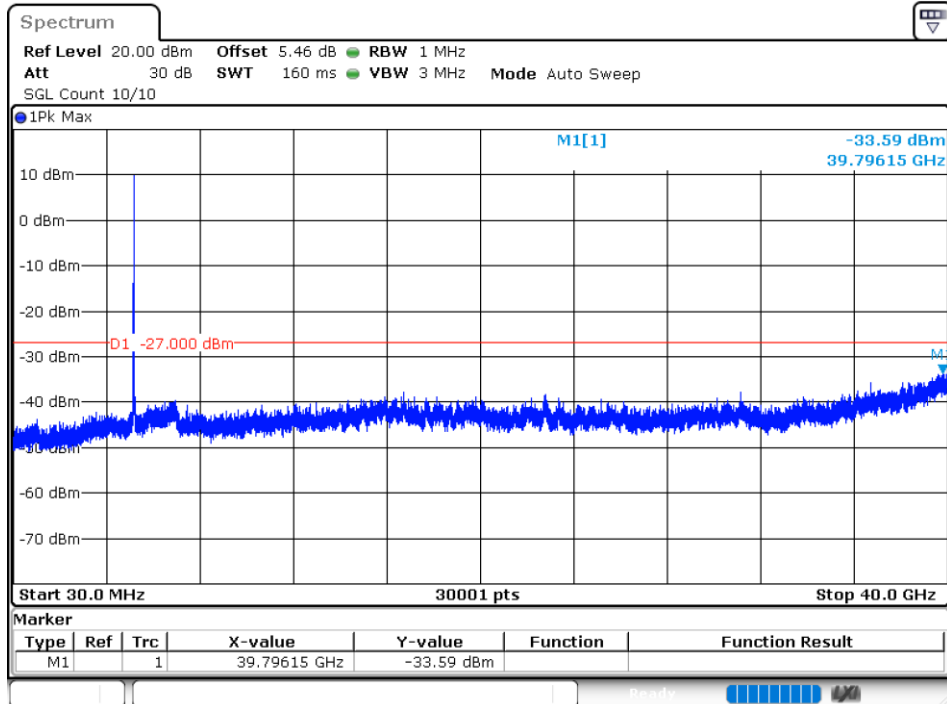


Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ac20	5180	Ant1	-33.58	-27	Pass
NVNT	ac20	5180	Ant2	-33.05	-27	Pass
NVNT	ac20	5200	Ant1	-32.66	-27	Pass
NVNT	ac20	5200	Ant2	-32.42	-27	Pass
NVNT	ac20	5240	Ant1	-32.12	-27	Pass
NVNT	ac20	5240	Ant2	-32.69	-27	Pass
NVNT	ac40	5190	Ant1	-32.68	-27	Pass
NVNT	ac40	5190	Ant2	-33.07	-27	Pass
NVNT	ac40	5230	Ant1	-33.3	-27	Pass
NVNT	ac40	5230	Ant2	-33.2	-27	Pass
NVNT	ac80	5210	Ant1	-32.29	-27	Pass
NVNT	ac80	5210	Ant2	-32.86	-27	Pass
NVNT	ax20	5180	Ant1	-33.38	-27	Pass
NVNT	ax20	5180	Ant2	-33.02	-27	Pass
NVNT	ax20	5200	Ant1	-33.26	-27	Pass
NVNT	ax20	5200	Ant2	-32.56	-27	Pass
NVNT	ax20	5240	Ant1	-32.9	-27	Pass
NVNT	ax20	5240	Ant2	-33.45	-27	Pass
NVNT	ax40	5190	Ant1	-32.61	-27	Pass
NVNT	ax40	5190	Ant2	-33.06	-27	Pass
NVNT	ax40	5230	Ant1	-32.54	-27	Pass
NVNT	ax40	5230	Ant2	-32.78	-27	Pass
NVNT	ax80	5210	Ant1	-33.36	-27	Pass
NVNT	ax80	5210	Ant2	-33.32	-27	Pass
NVNT	n20	5180	Ant1	-33.41	-27	Pass
NVNT	n20	5180	Ant2	-33.45	-27	Pass
NVNT	n20	5200	Ant1	-32.44	-27	Pass
NVNT	n20	5200	Ant2	-32.56	-27	Pass
NVNT	n20	5240	Ant1	-32.56	-27	Pass
NVNT	n20	5240	Ant2	-33.66	-27	Pass
NVNT	n40	5190	Ant1	-32.04	-27	Pass
NVNT	n40	5190	Ant2	-32.56	-27	Pass
NVNT	n40	5230	Ant1	-33.57	-27	Pass
NVNT	n40	5230	Ant2	-33.17	-27	Pass

Test Graphs

Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



Tx. Spurious NVNT ac20 5180MHz Ant2 Emission

