

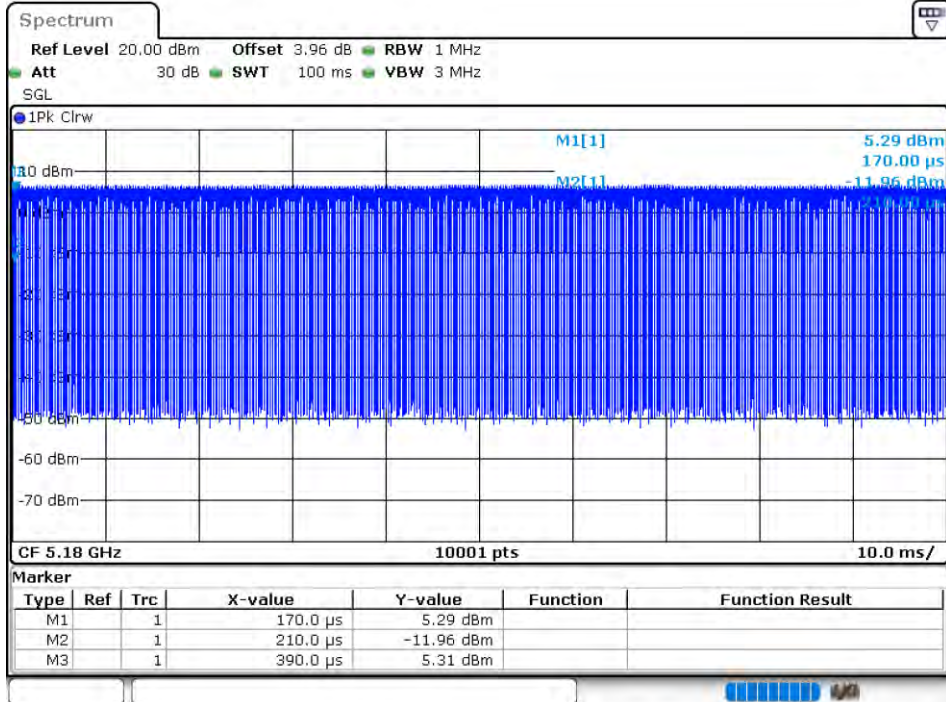
5.2G WIFI

Duty Cycle

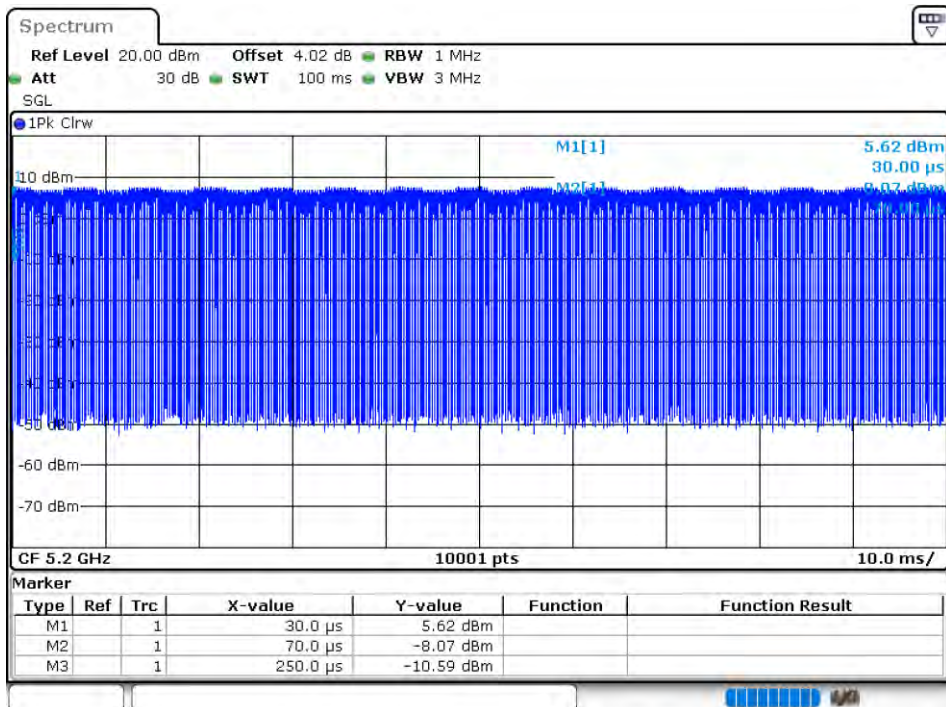
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	86.04	0.65	5.56
NVNT	a	5200	Ant1	85.93	0.66	5.56
NVNT	a	5240	Ant1	85.87	0.66	5.56
NVNT	n20	5180	Ant1	85.1	0.7	6.25
NVNT	n20	5200	Ant1	85.14	0.7	6.25
NVNT	n20	5240	Ant1	85.12	0.7	6.25
NVNT	n40	5190	Ant1	78.98	1.02	10
NVNT	n40	5230	Ant1	79	1.02	10
NVNT	ac20	5180	Ant1	85.49	0.68	5.88
NVNT	ac20	5200	Ant1	85.53	0.68	5.88
NVNT	ac20	5240	Ant1	85.51	0.68	5.88
NVNT	ac40	5190	Ant1	77.89	1.09	10
NVNT	ac40	5230	Ant1	77.97	1.08	11.11
NVNT	ac80	5210	Ant1	64.88	1.88	16.67

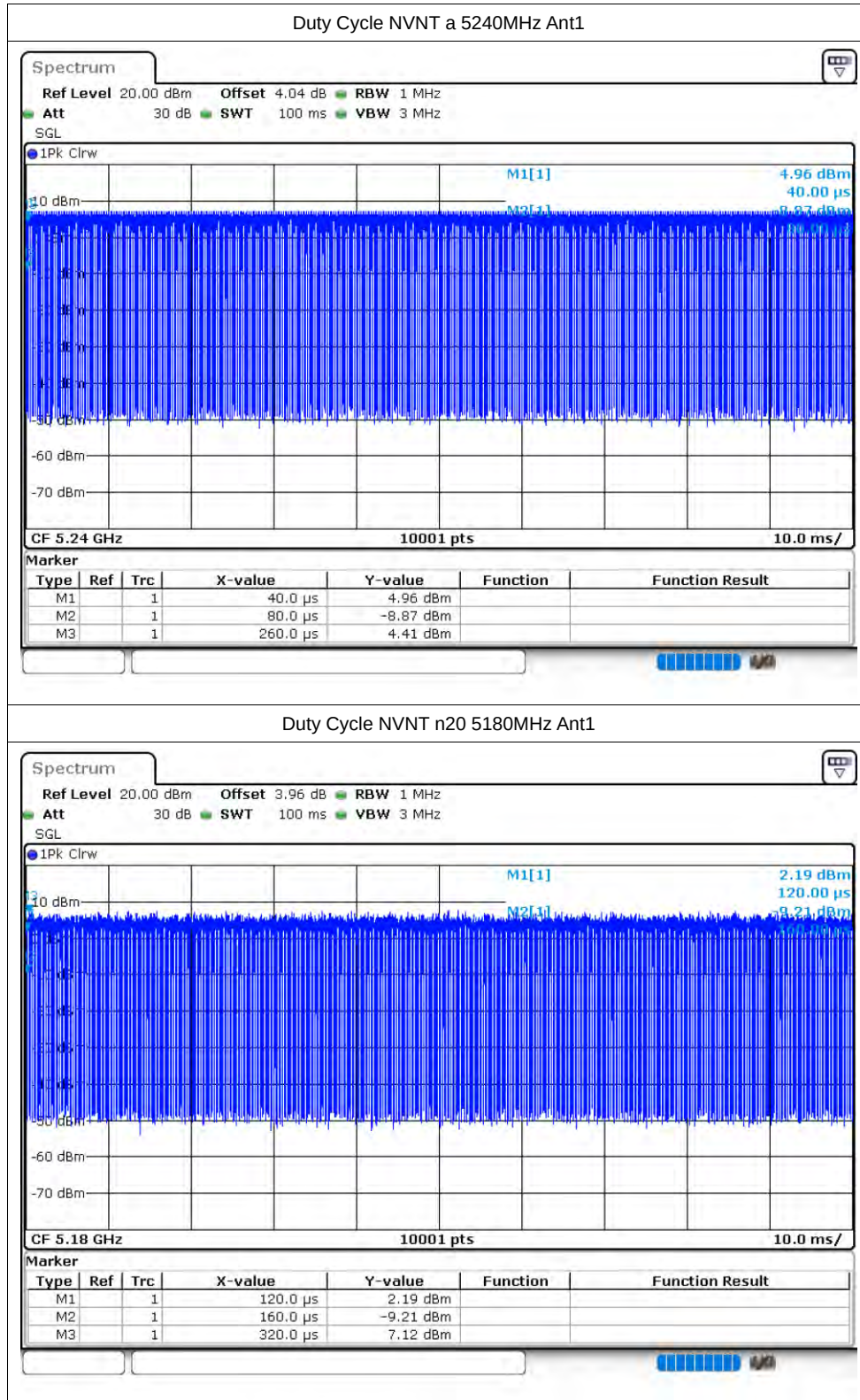
Test Graphs

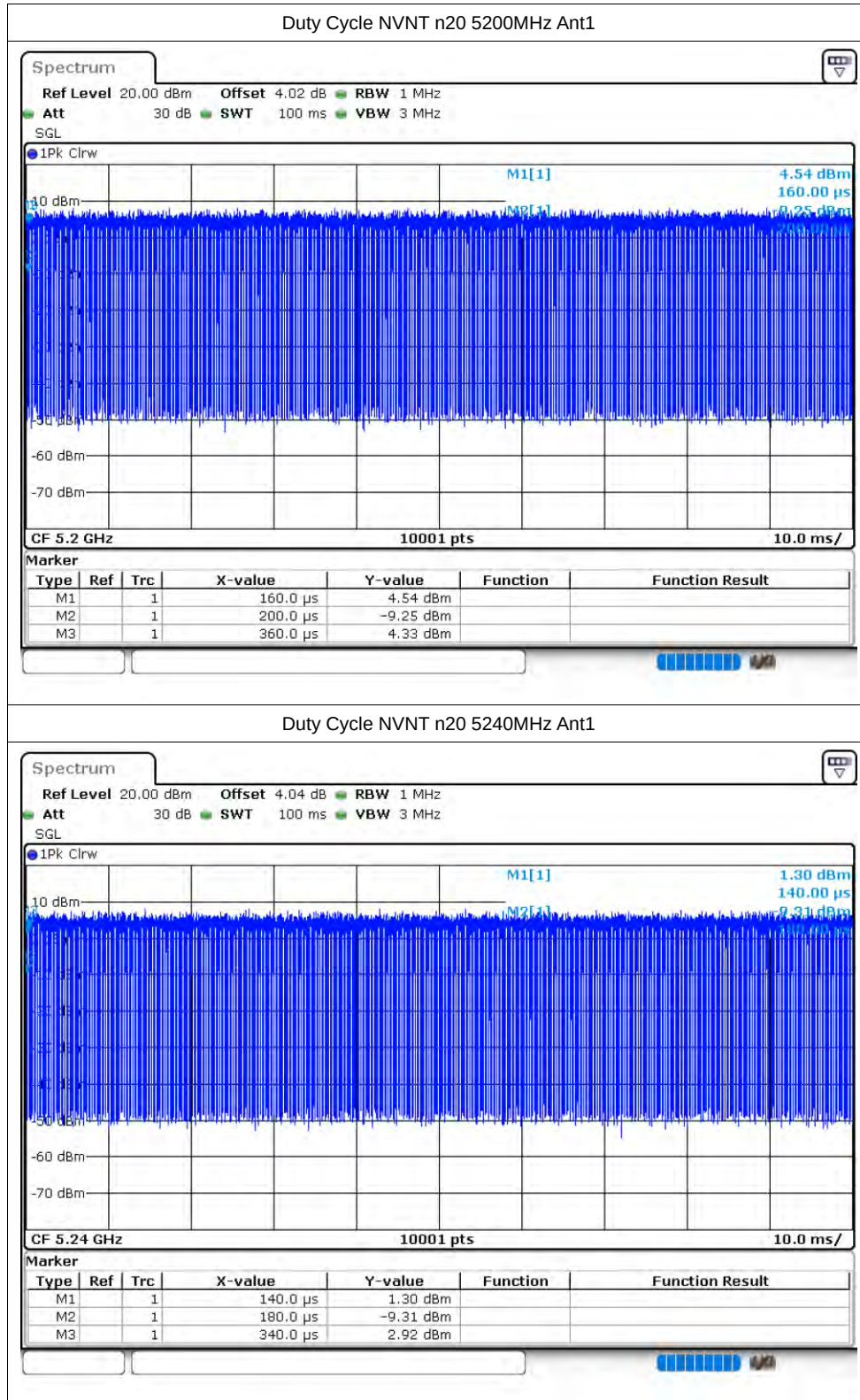
Duty Cycle NVNT a 5180MHz Ant1



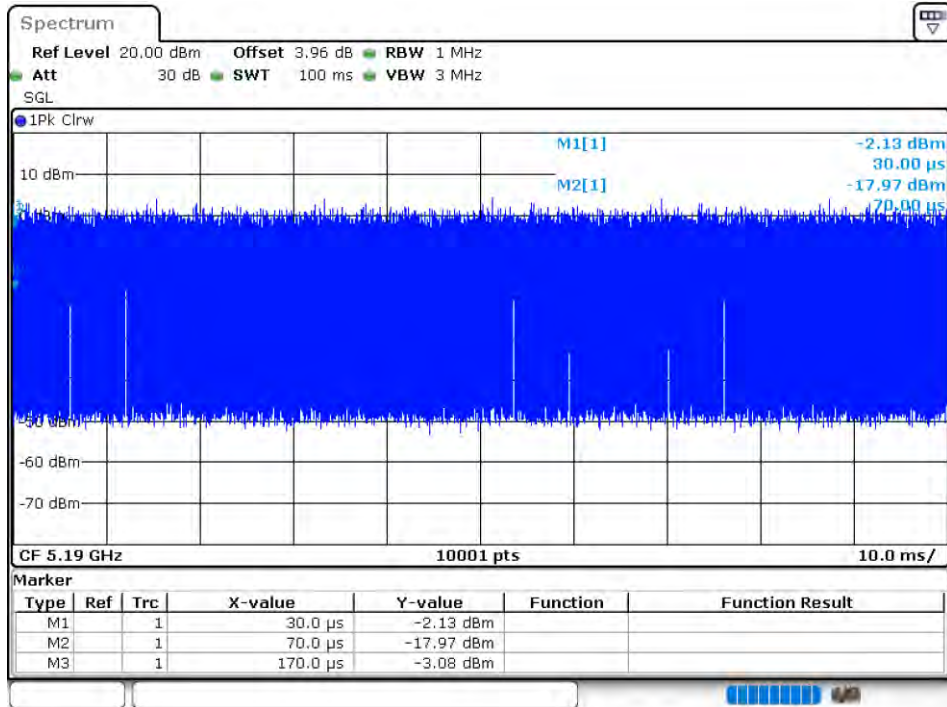
Duty Cycle NVNT a 5200MHz Ant1



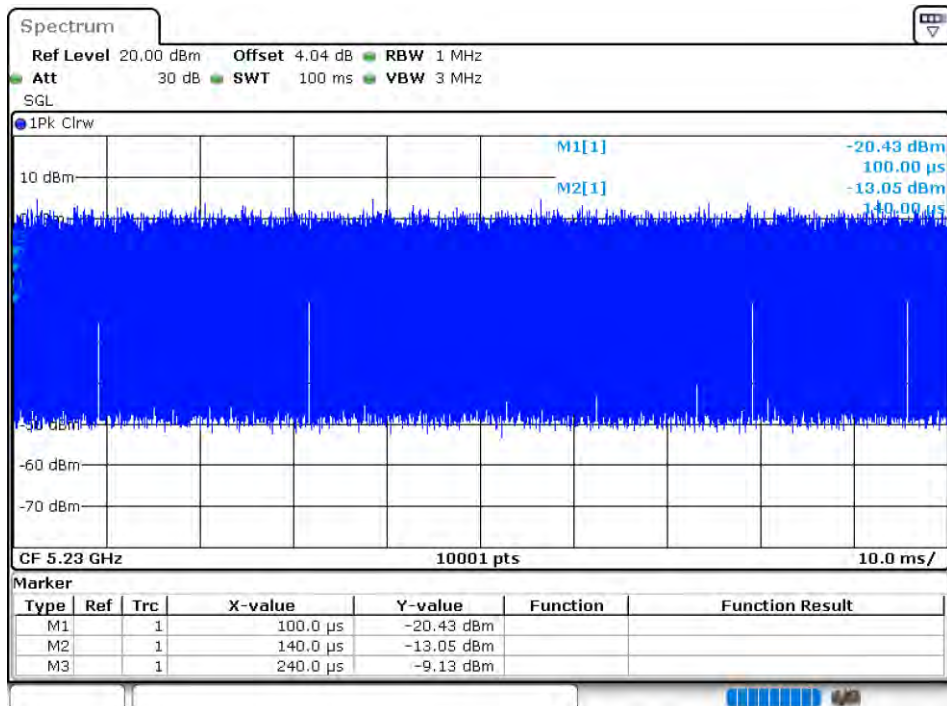




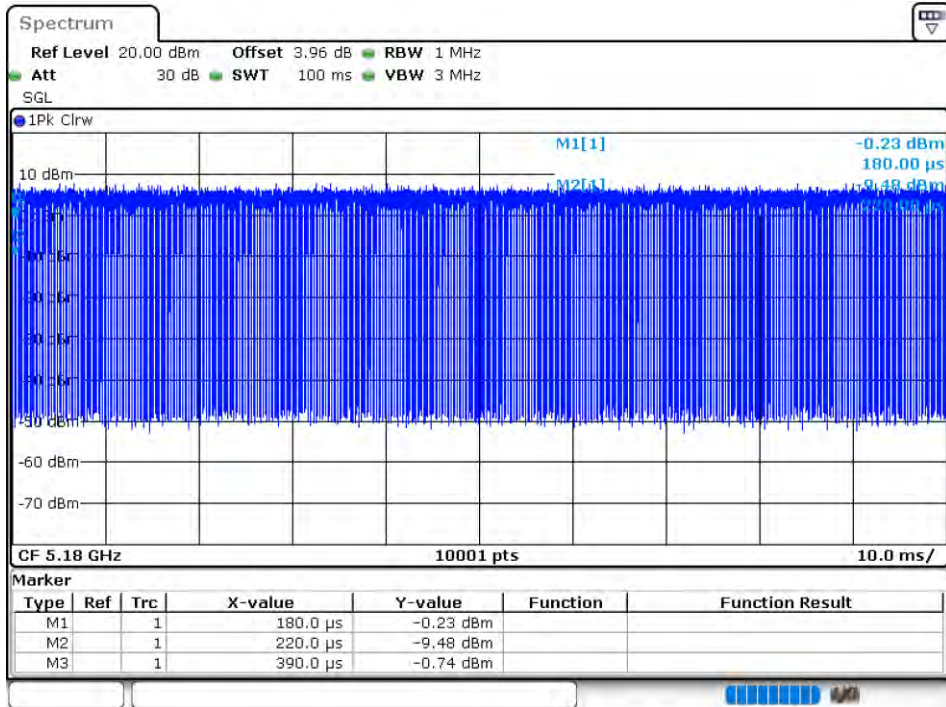
Duty Cycle NVNT n40 5190MHz Ant1



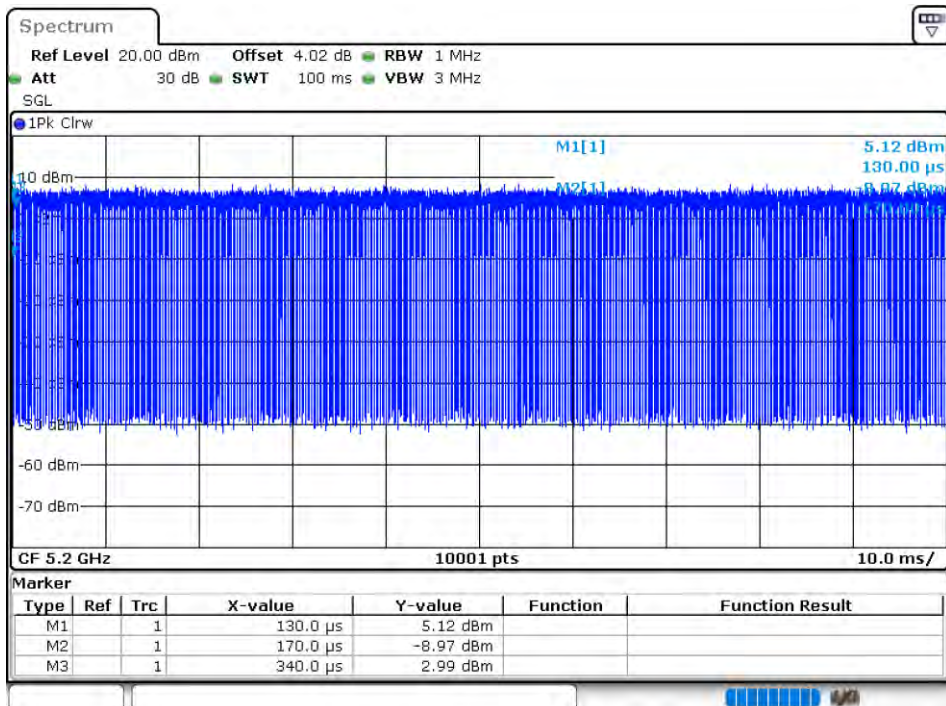
Duty Cycle NVNT n40 5230MHz Ant1

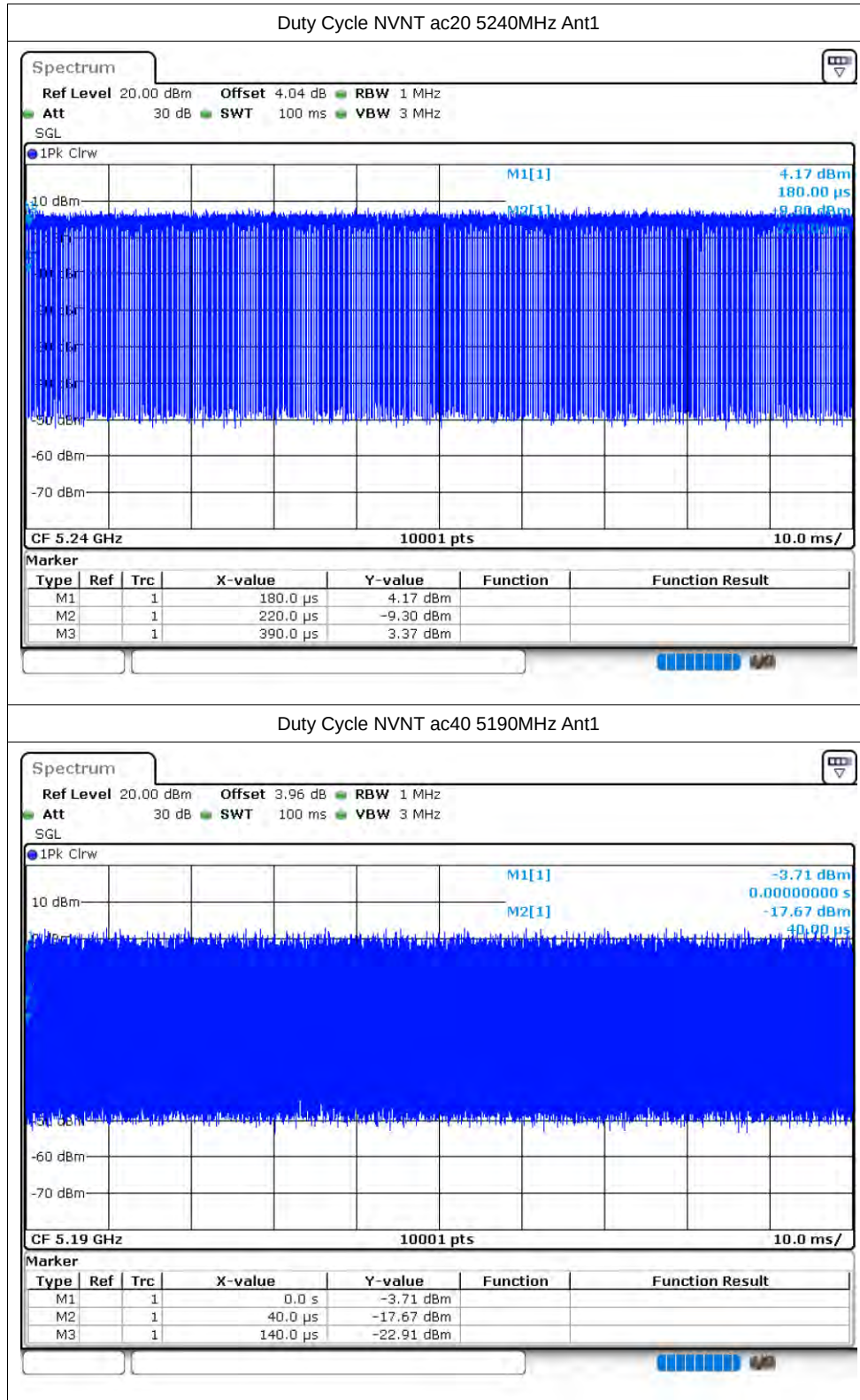


Duty Cycle NVNT ac20 5180MHz Ant1

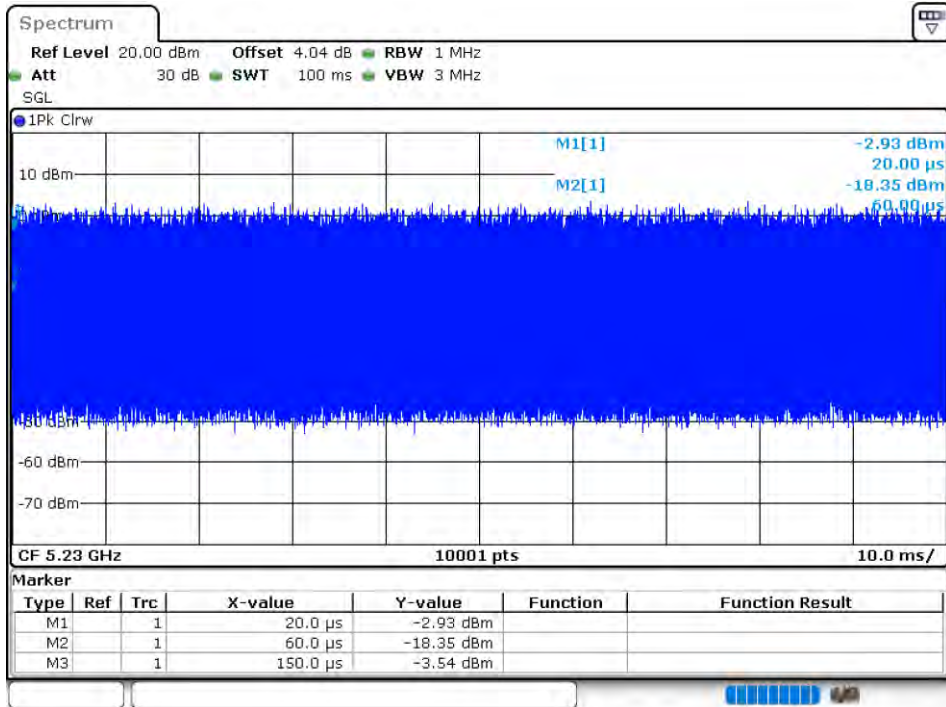


Duty Cycle NVNT ac20 5200MHz Ant1

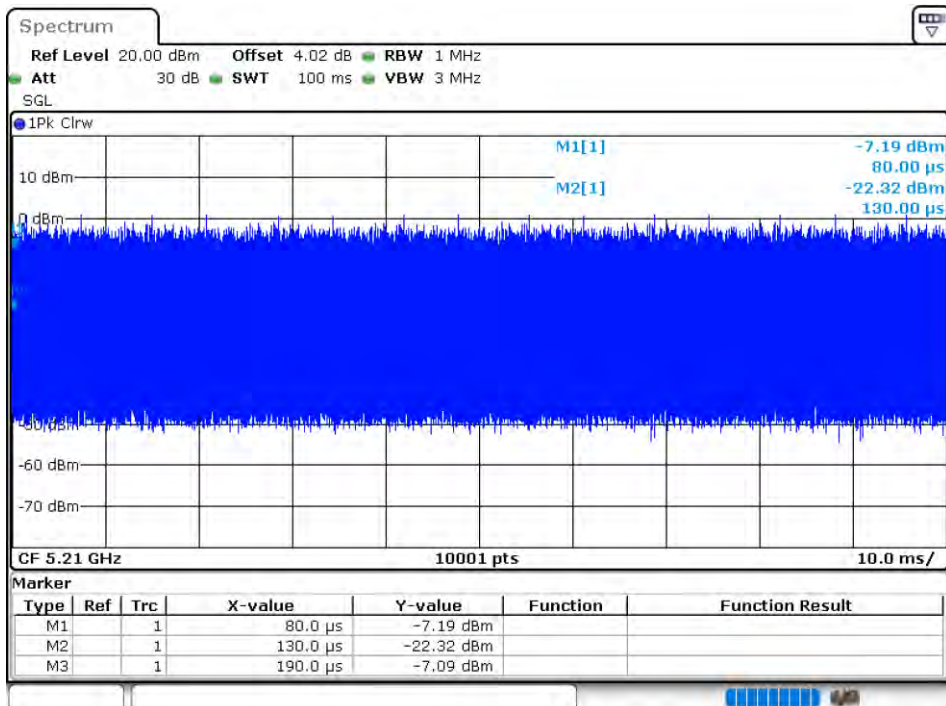




Duty Cycle NVNT ac40 5230MHz Ant1



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	11.37	24	Pass
NVNT	a	5200	Ant1	11.68	24	Pass
NVNT	a	5240	Ant1	11.78	24	Pass
NVNT	n20	5180	Ant1	11.11	24	Pass
NVNT	n20	5200	Ant1	11.16	24	Pass
NVNT	n20	5240	Ant1	11.63	24	Pass
NVNT	n40	5190	Ant1	11.35	24	Pass
NVNT	n40	5230	Ant1	11.4	24	Pass
NVNT	ac20	5180	Ant1	11.26	24	Pass
NVNT	ac20	5200	Ant1	11.08	24	Pass
NVNT	ac20	5240	Ant1	11.34	24	Pass
NVNT	ac40	5190	Ant1	10.96	24	Pass
NVNT	ac40	5230	Ant1	11.42	24	Pass
NVNT	ac80	5210	Ant1	10.99	24	Pass

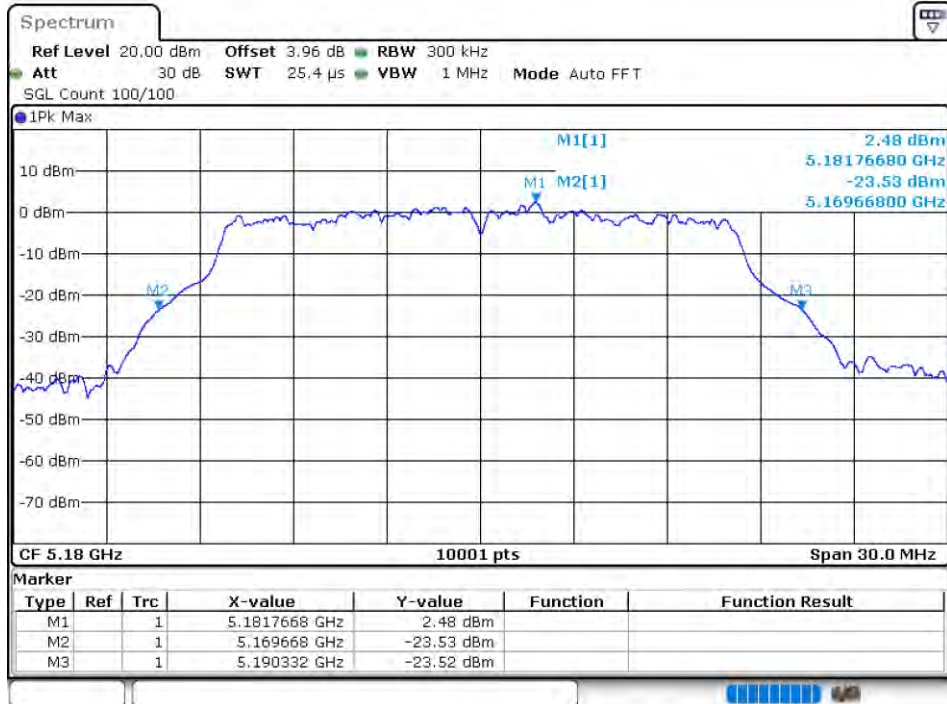
Note: The average power contains duty cycle

-26dB Bandwidth

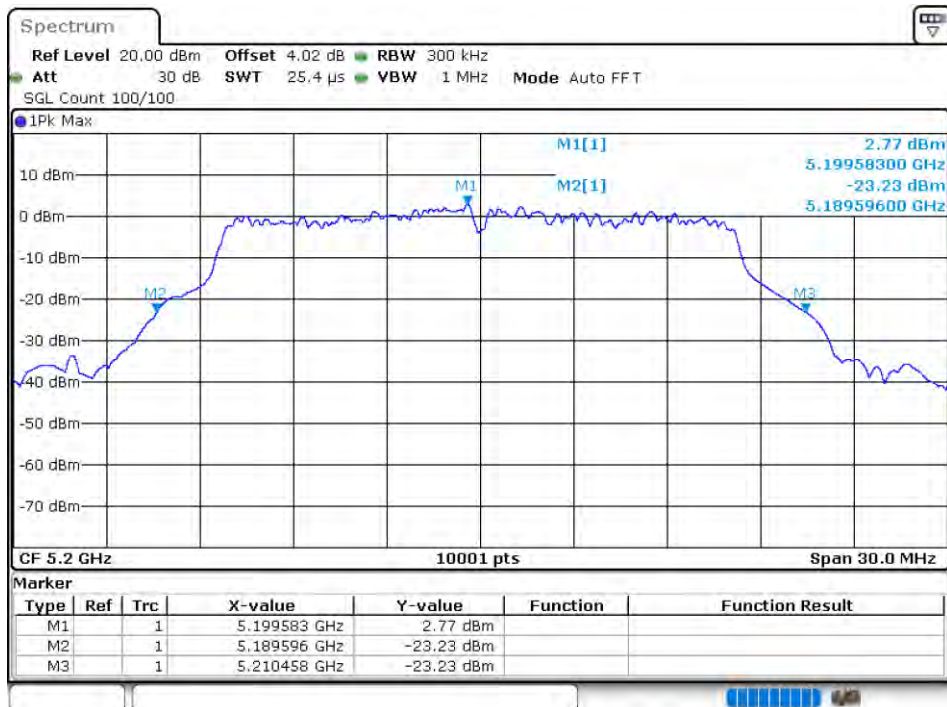
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.664	Pass
NVNT	a	5200	Ant1	20.862	Pass
NVNT	a	5240	Ant1	20.805	Pass
NVNT	n20	5180	Ant1	21.213	Pass
NVNT	n20	5200	Ant1	21.099	Pass
NVNT	n20	5240	Ant1	21.444	Pass
NVNT	n40	5190	Ant1	39.36	Pass
NVNT	n40	5230	Ant1	39.6	Pass
NVNT	ac20	5180	Ant1	21.141	Pass
NVNT	ac20	5200	Ant1	20.907	Pass
NVNT	ac20	5240	Ant1	21.291	Pass
NVNT	ac40	5190	Ant1	40.326	Pass
NVNT	ac40	5230	Ant1	40.488	Pass
NVNT	ac80	5210	Ant1	80.388	Pass

Test Graphs

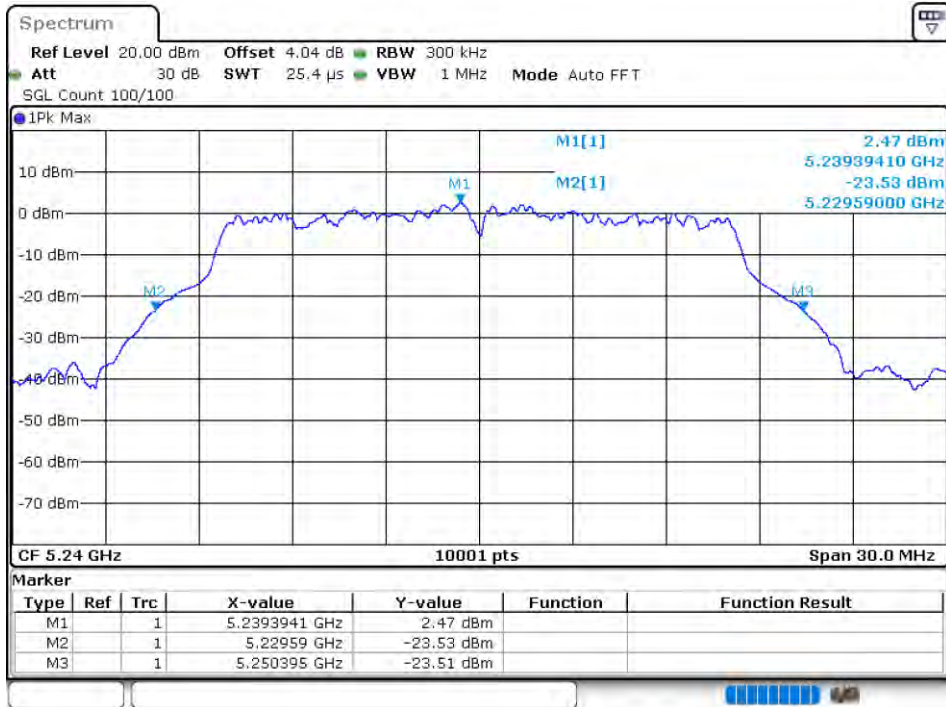
-26dB Bandwidth NVNT a 5180MHz Ant1



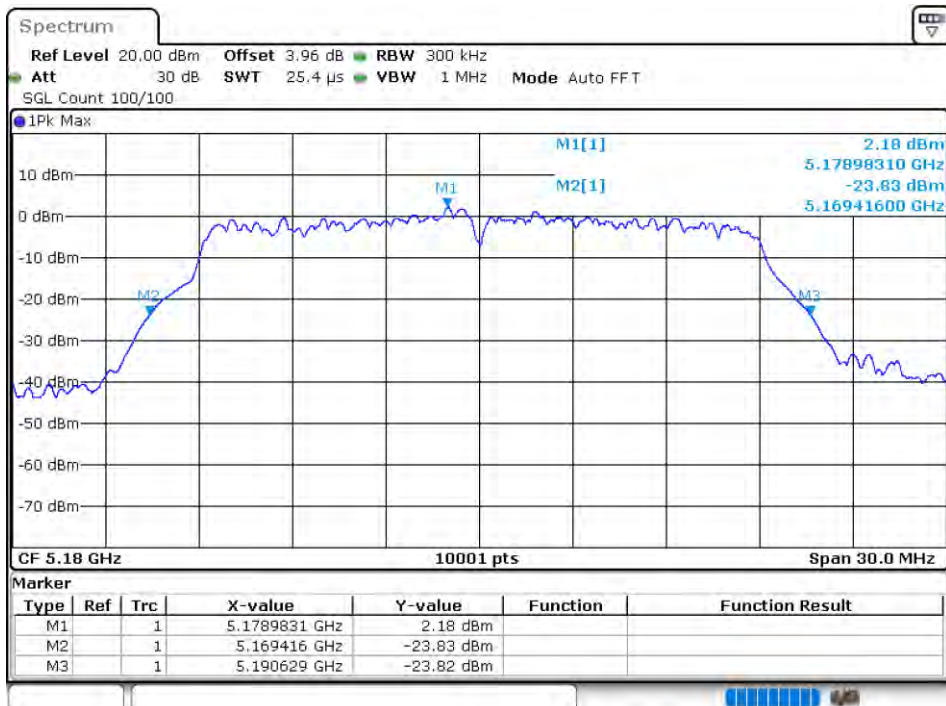
-26dB Bandwidth NVNT a 5200MHz Ant1



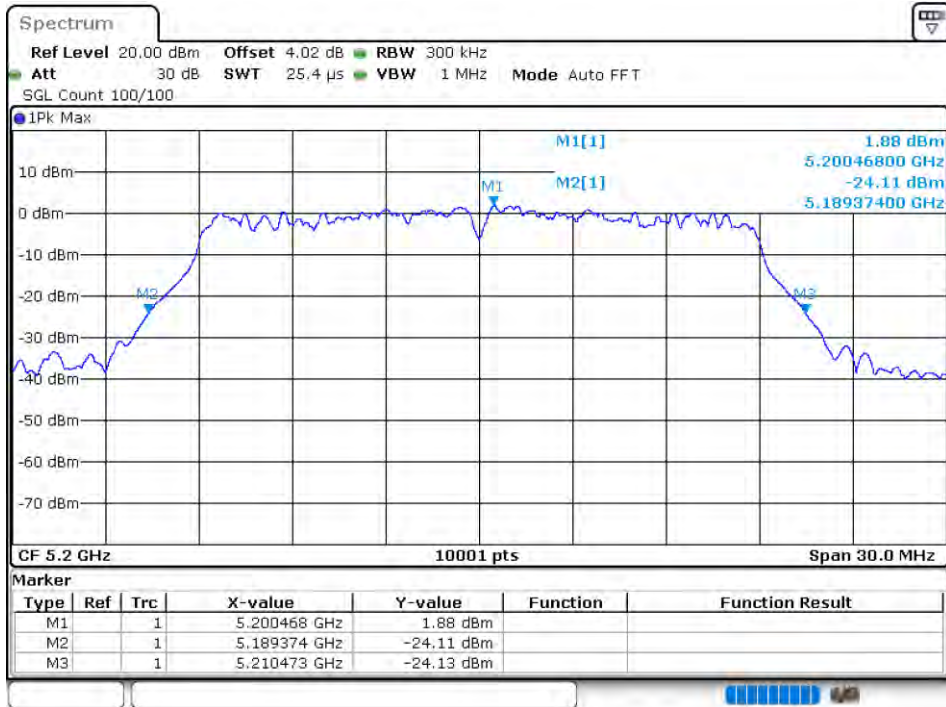
-26dB Bandwidth NVNT a 5240MHz Ant1



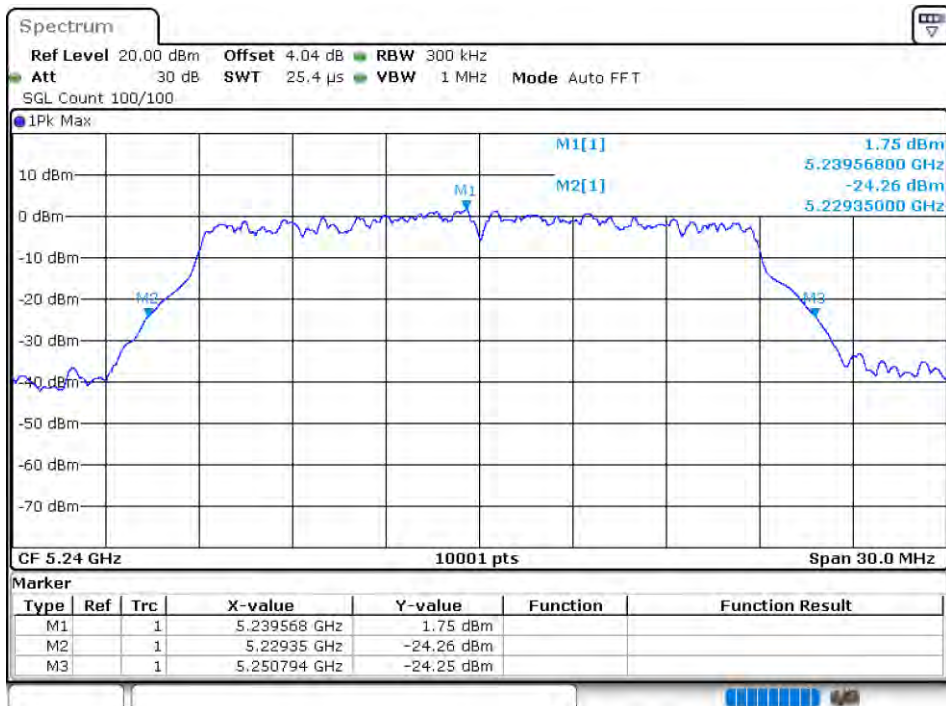
-26dB Bandwidth NVNT n20 5180MHz Ant1



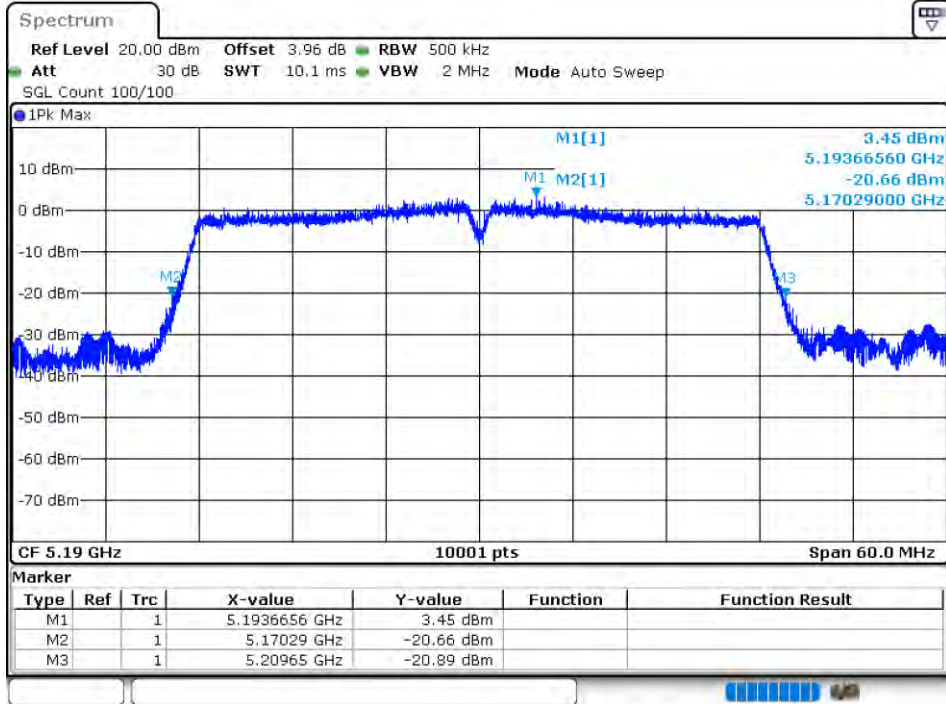
-26dB Bandwidth NVNT n20 5200MHz Ant1



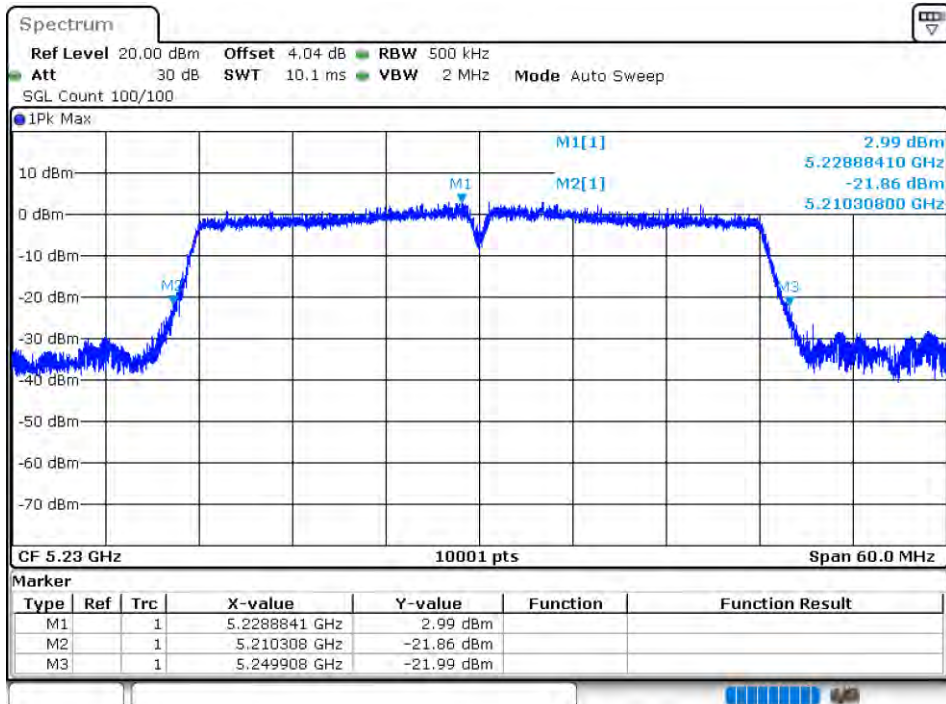
-26dB Bandwidth NVNT n20 5240MHz Ant1



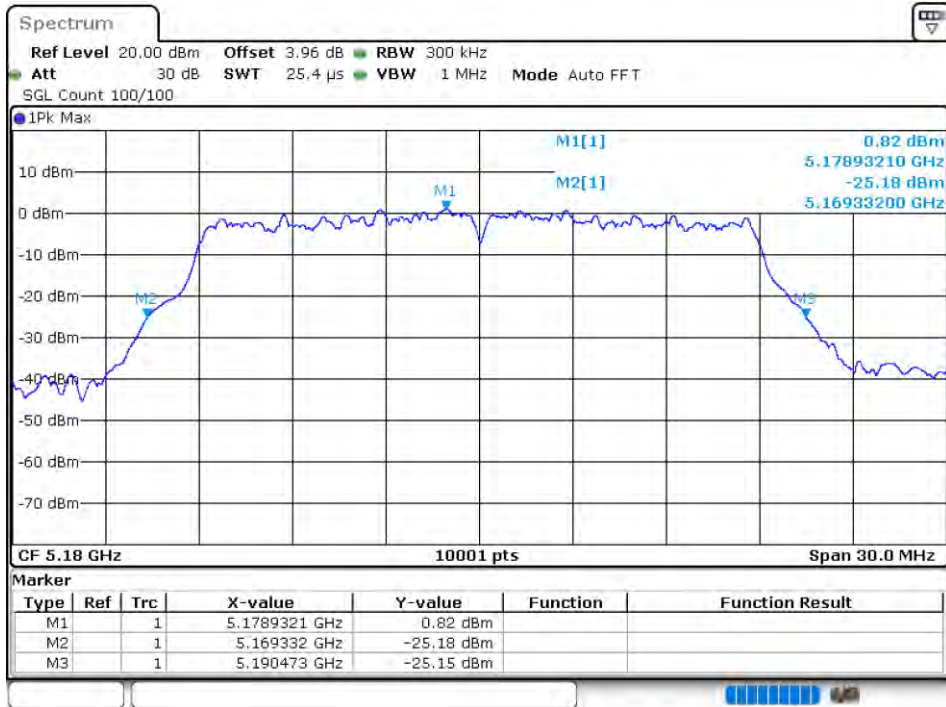
-26dB Bandwidth NVNT n40 5190MHz Ant1



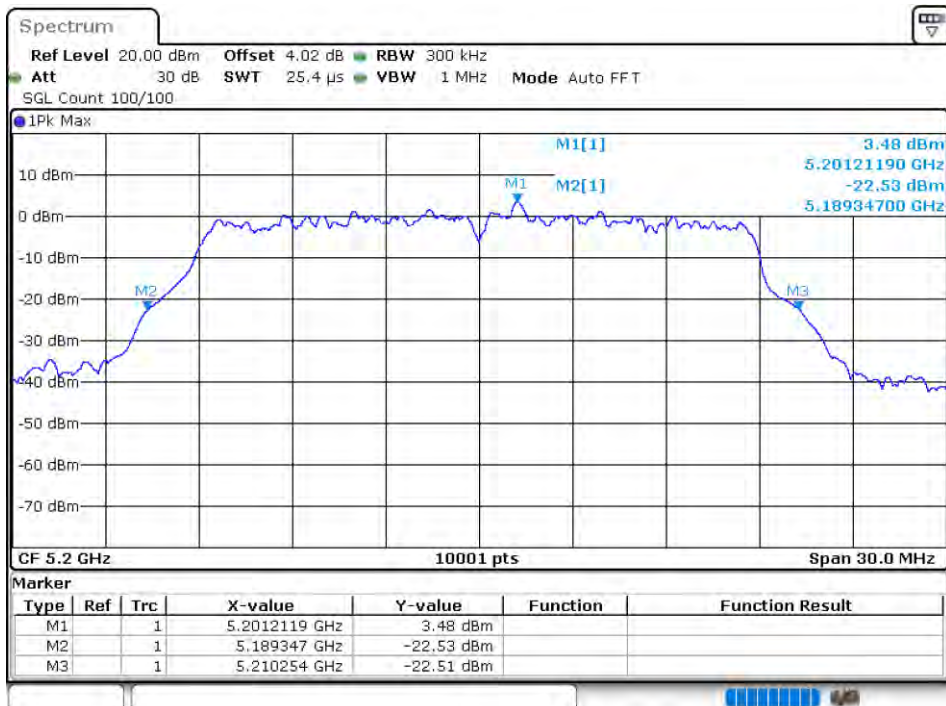
-26dB Bandwidth NVNT n40 5230MHz Ant1



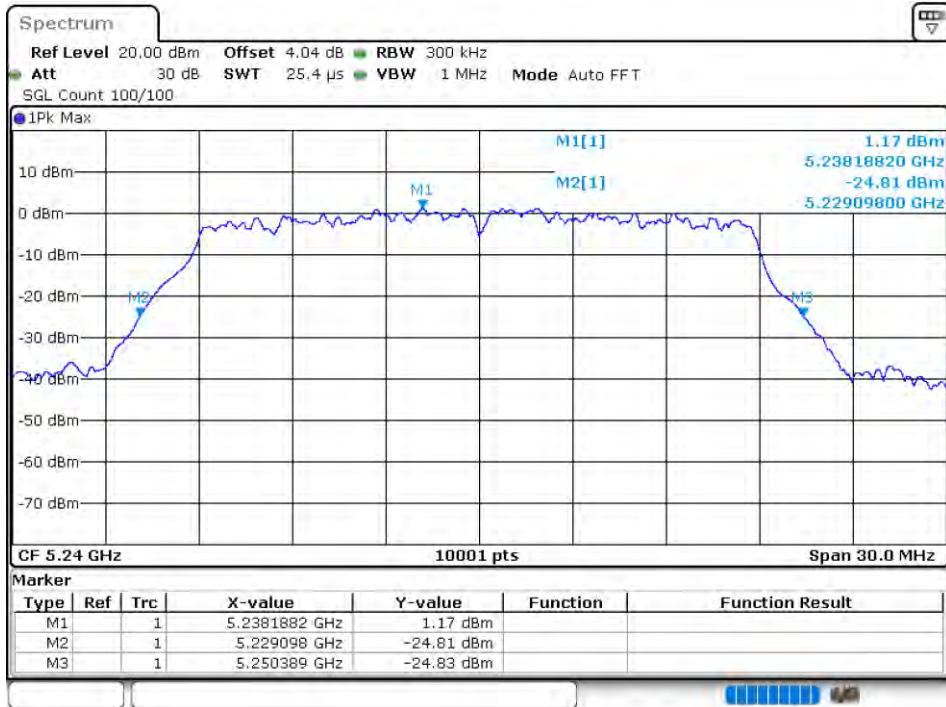
-26dB Bandwidth NVNT ac20 5180MHz Ant1



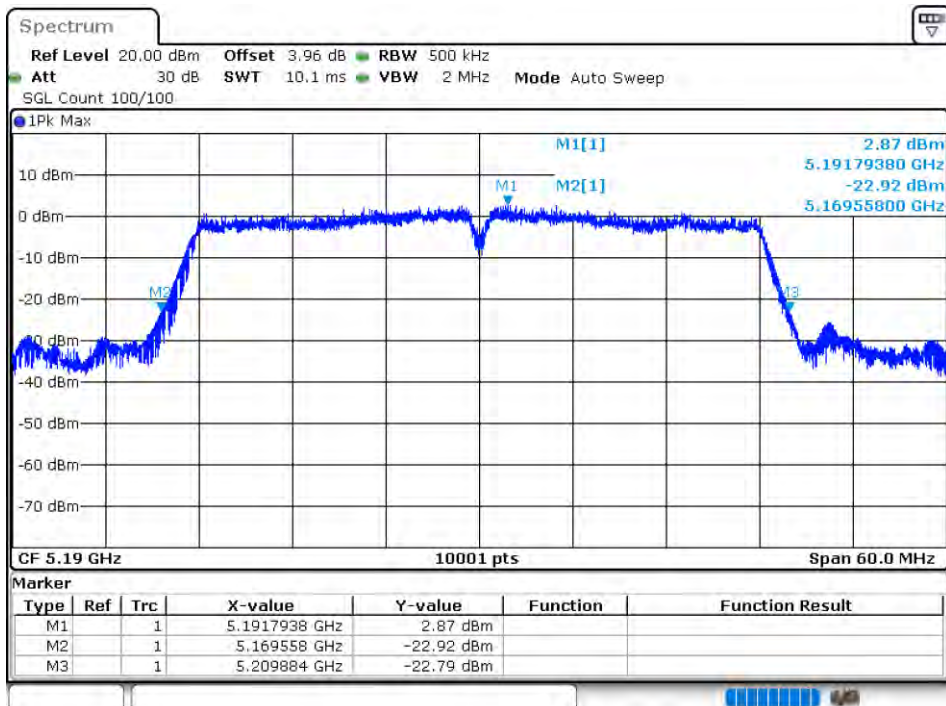
-26dB Bandwidth NVNT ac20 5200MHz Ant1



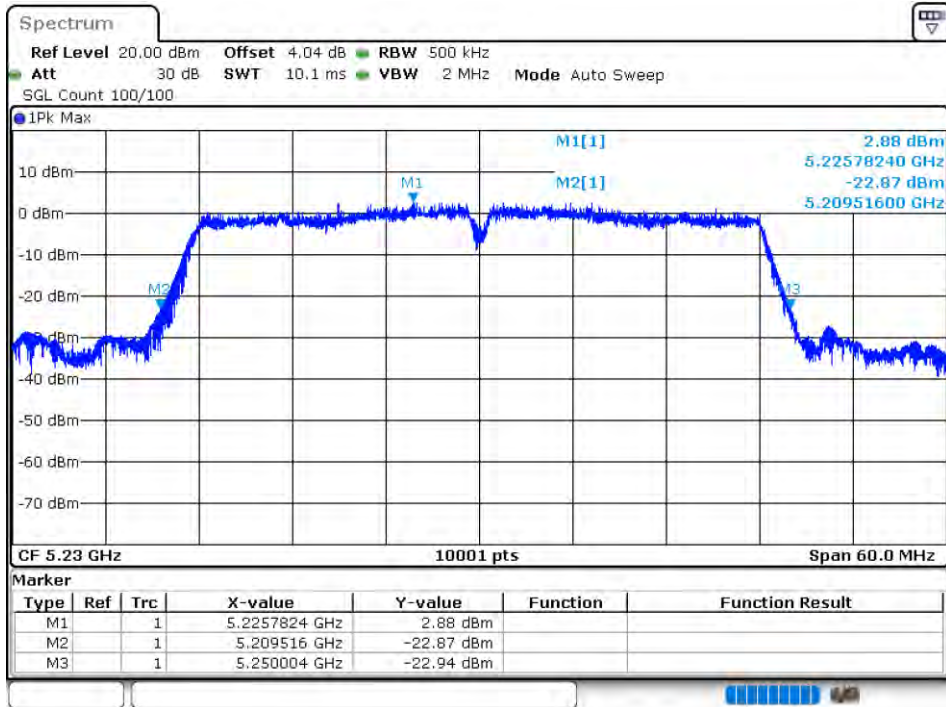
-26dB Bandwidth NVNT ac20 5240MHz Ant1



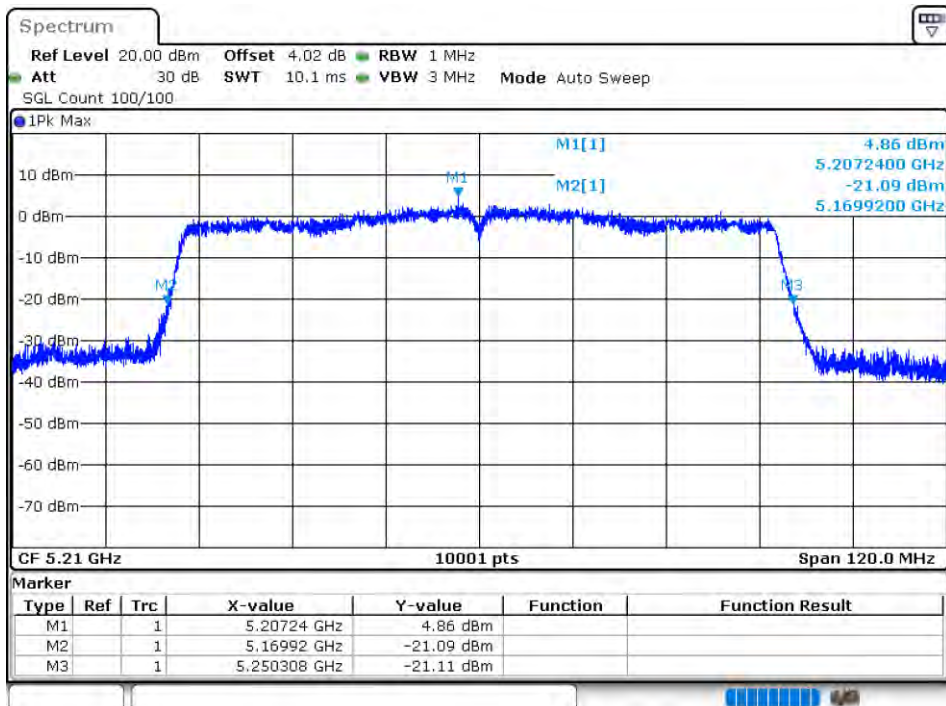
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1

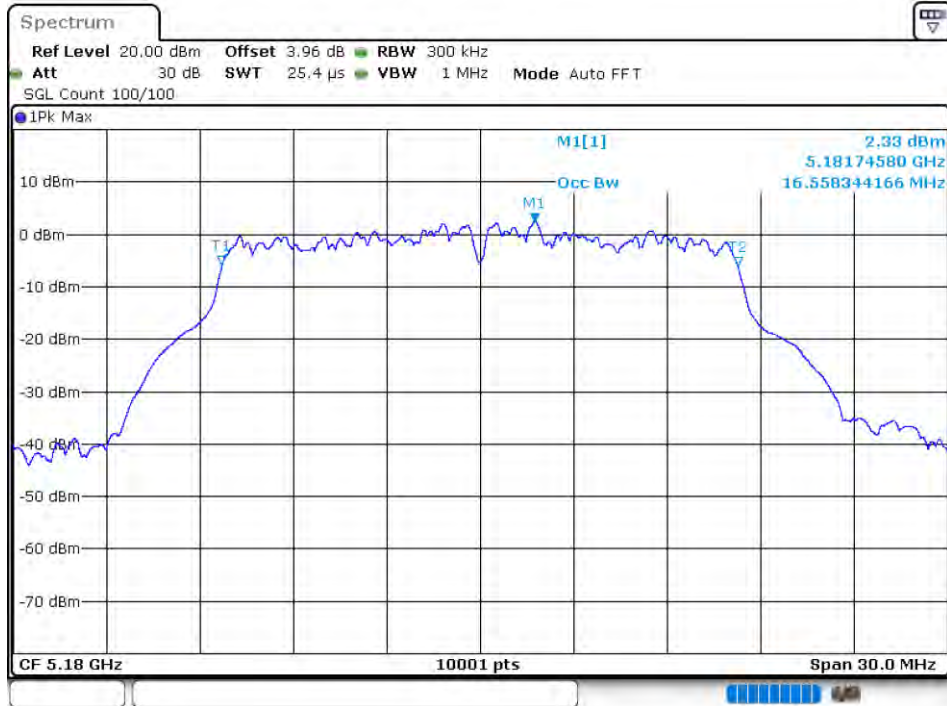


Occupied Channel Bandwidth

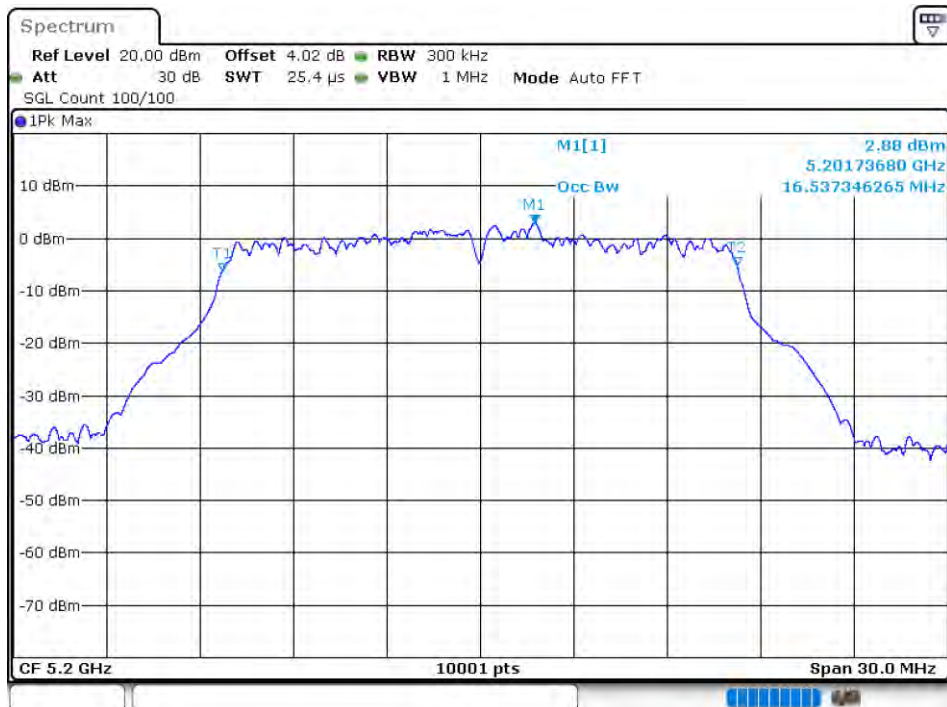
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.558
NVNT	a	5200	Ant1	16.537
NVNT	a	5240	Ant1	16.558
NVNT	n20	5180	Ant1	17.698
NVNT	n20	5200	Ant1	17.611
NVNT	n20	5240	Ant1	17.695
NVNT	n40	5190	Ant1	36.23
NVNT	n40	5230	Ant1	36.212
NVNT	ac20	5180	Ant1	17.854
NVNT	ac20	5200	Ant1	17.707
NVNT	ac20	5240	Ant1	17.932
NVNT	ac40	5190	Ant1	36.53
NVNT	ac40	5230	Ant1	36.578
NVNT	ac80	5210	Ant1	75.544

Test Graphs

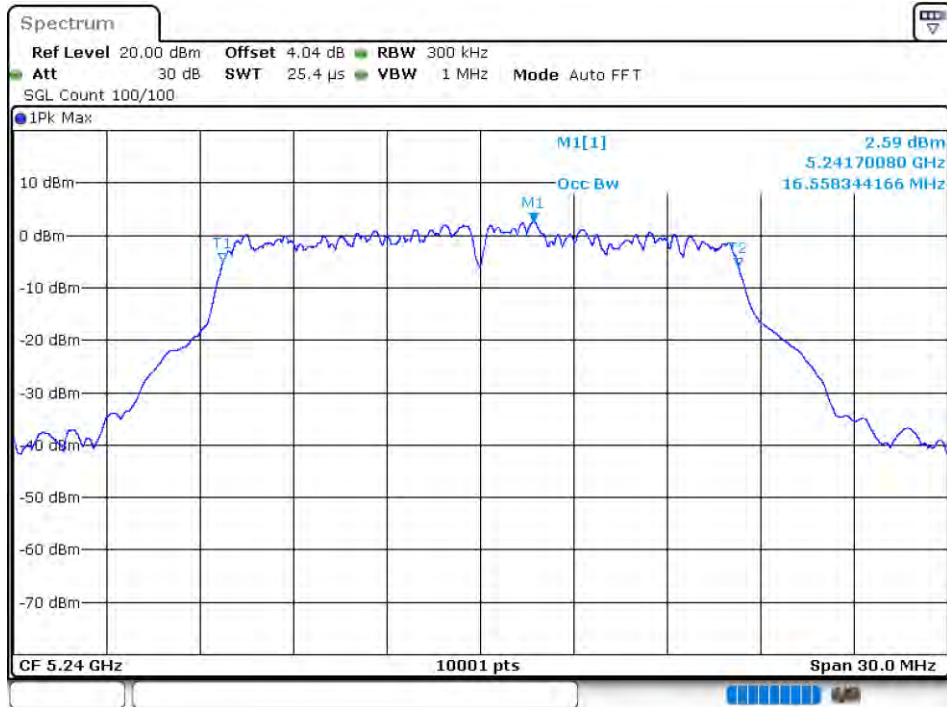
OBW NVNT a 5180MHz Ant1



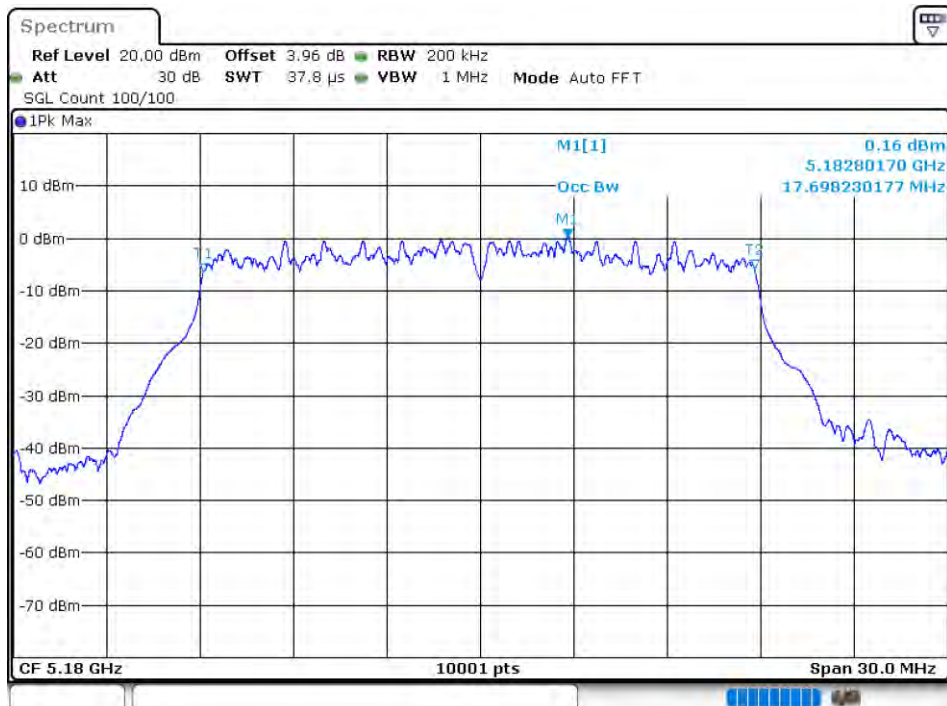
OBW NVNT a 5200MHz Ant1

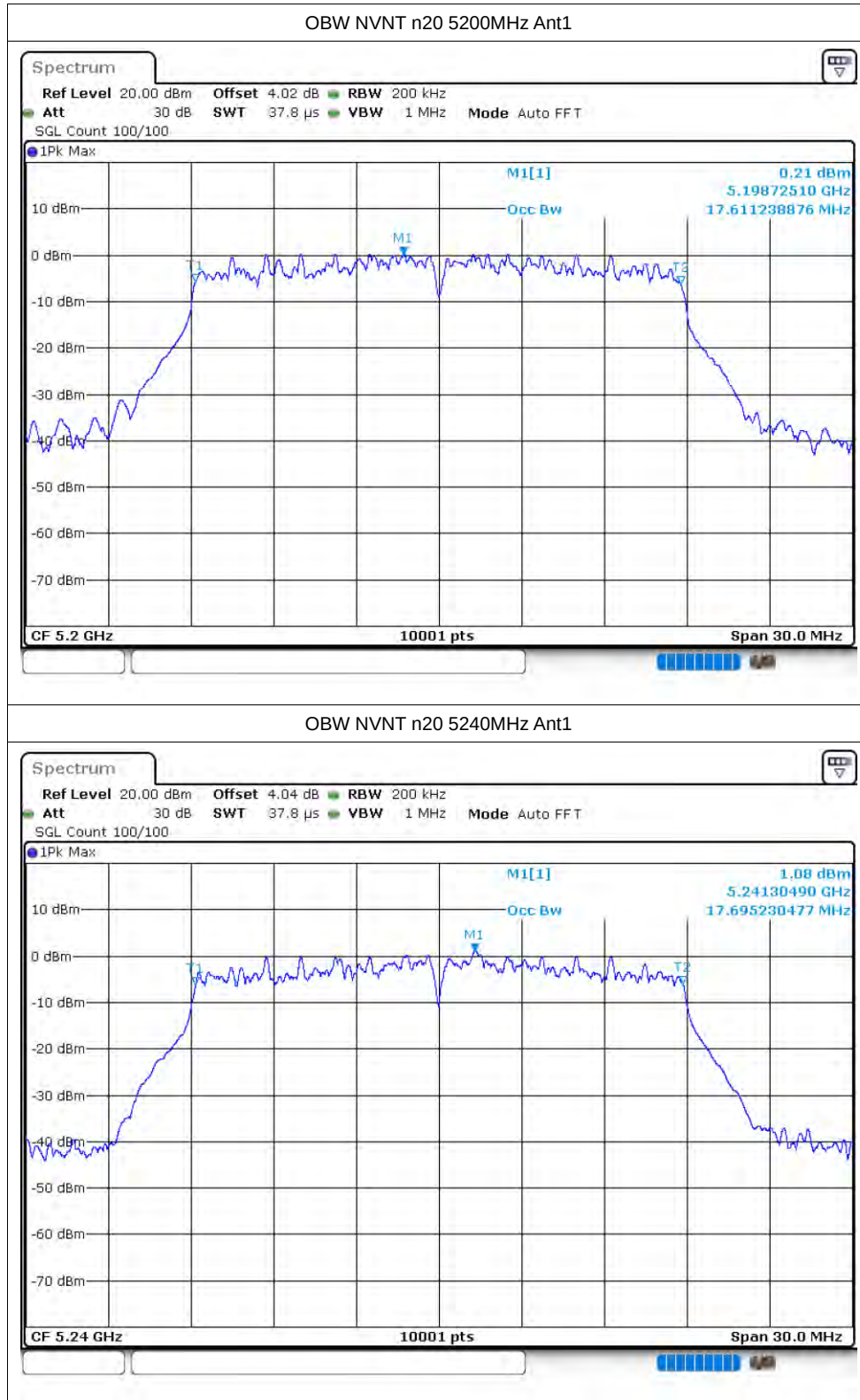


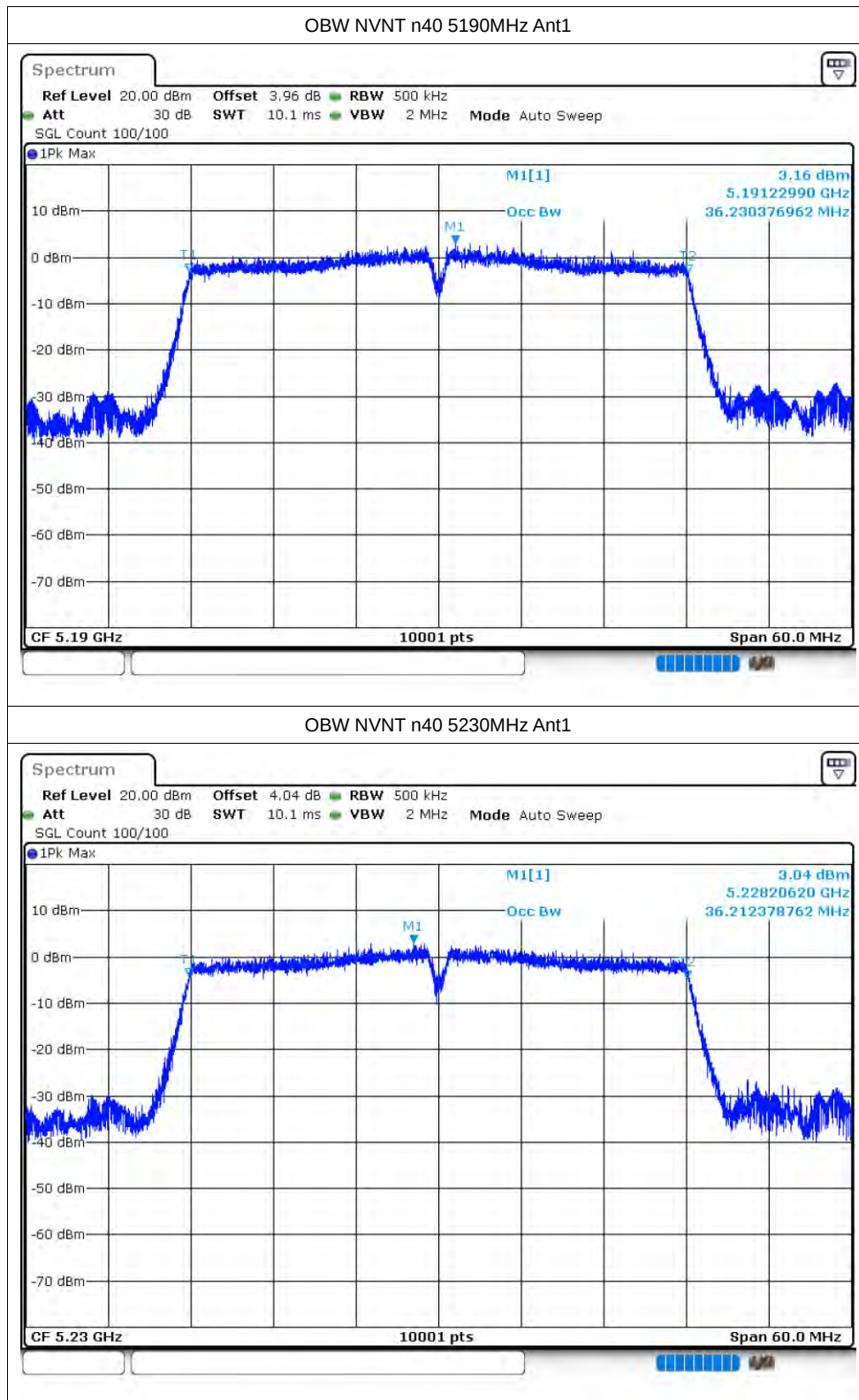
OBW NVNT a 5240MHz Ant1

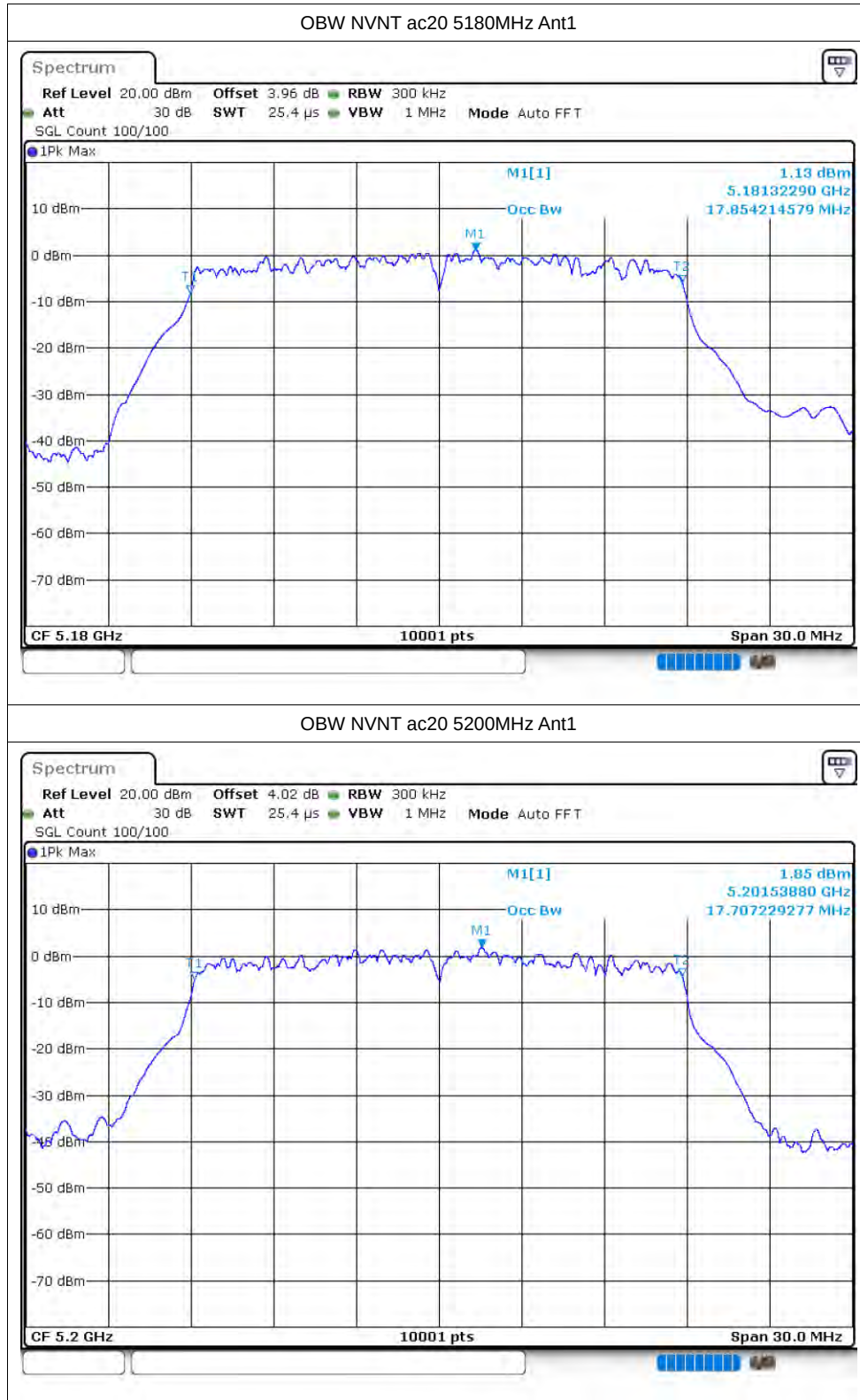


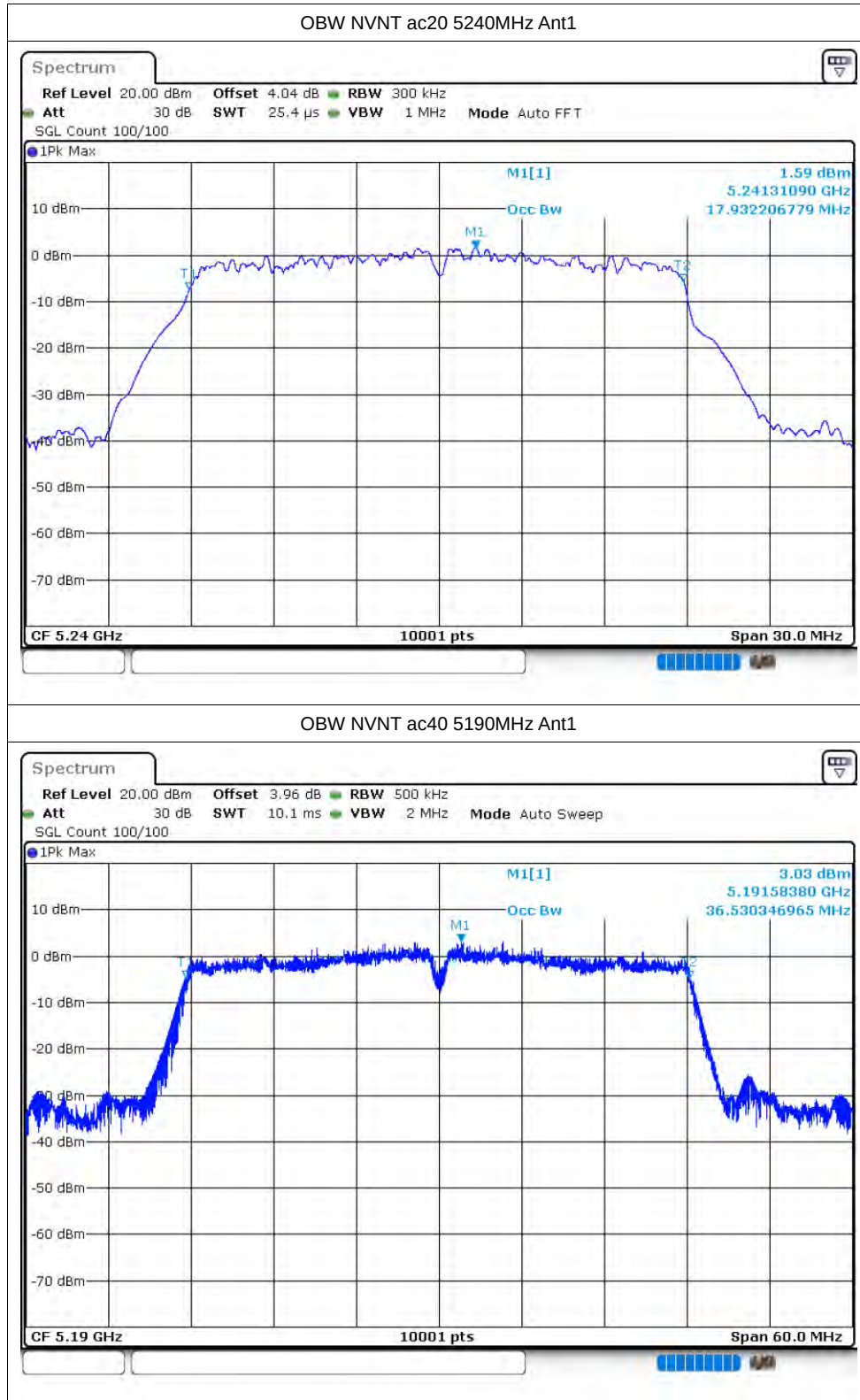
OBW NVNT n20 5180MHz Ant1

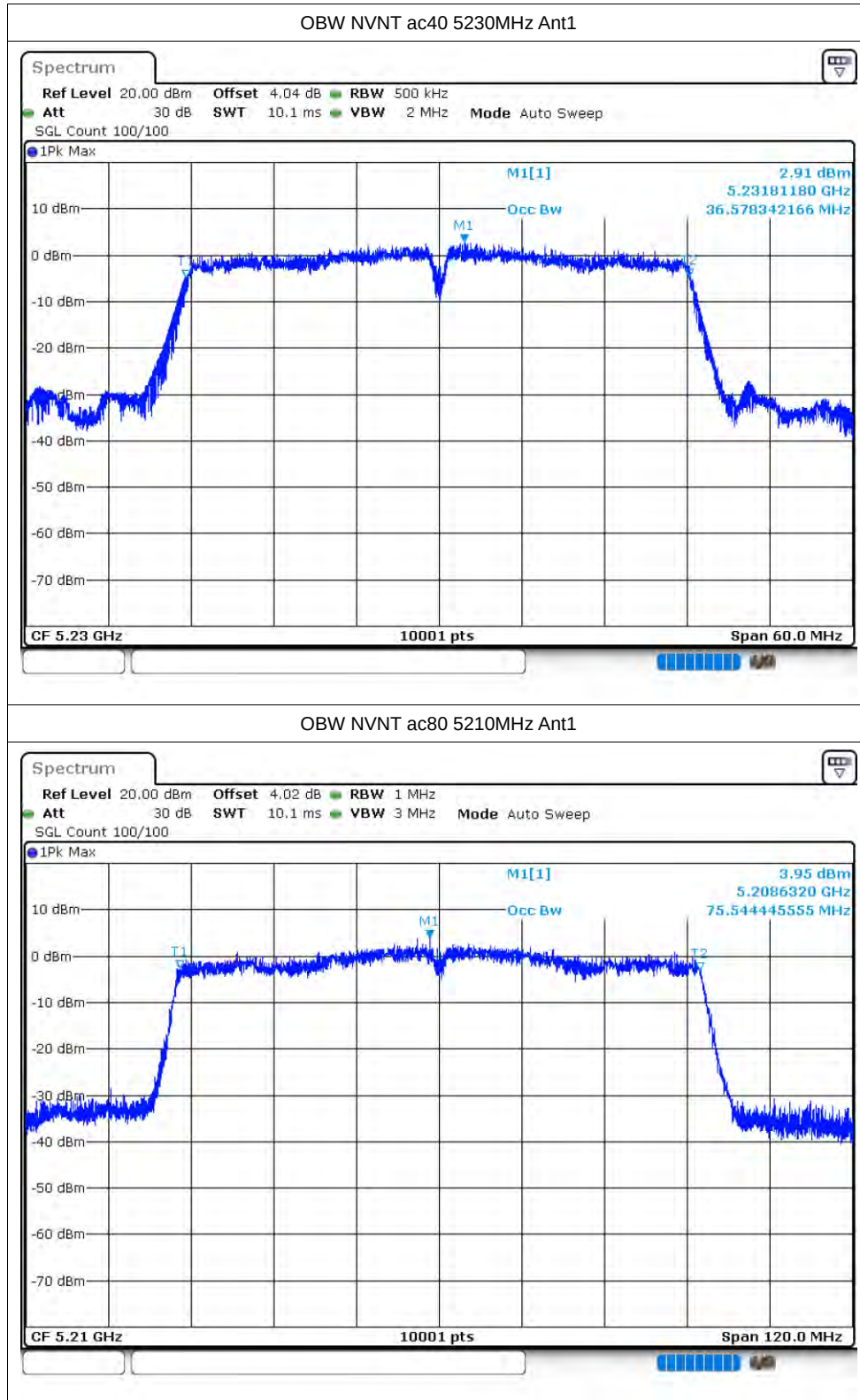










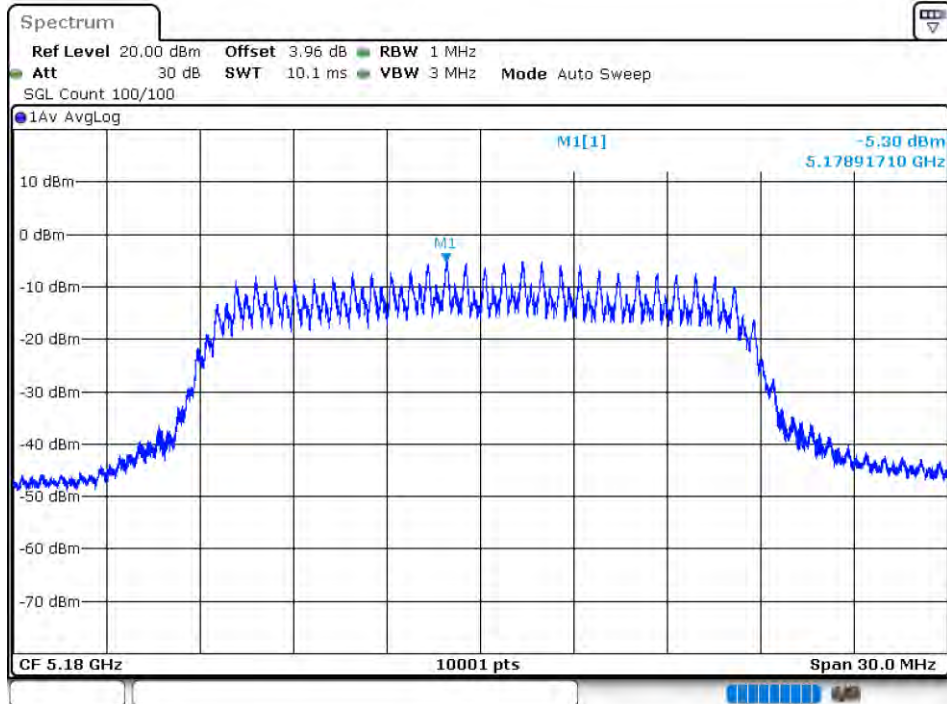


Maximum Power Spectral Density Level

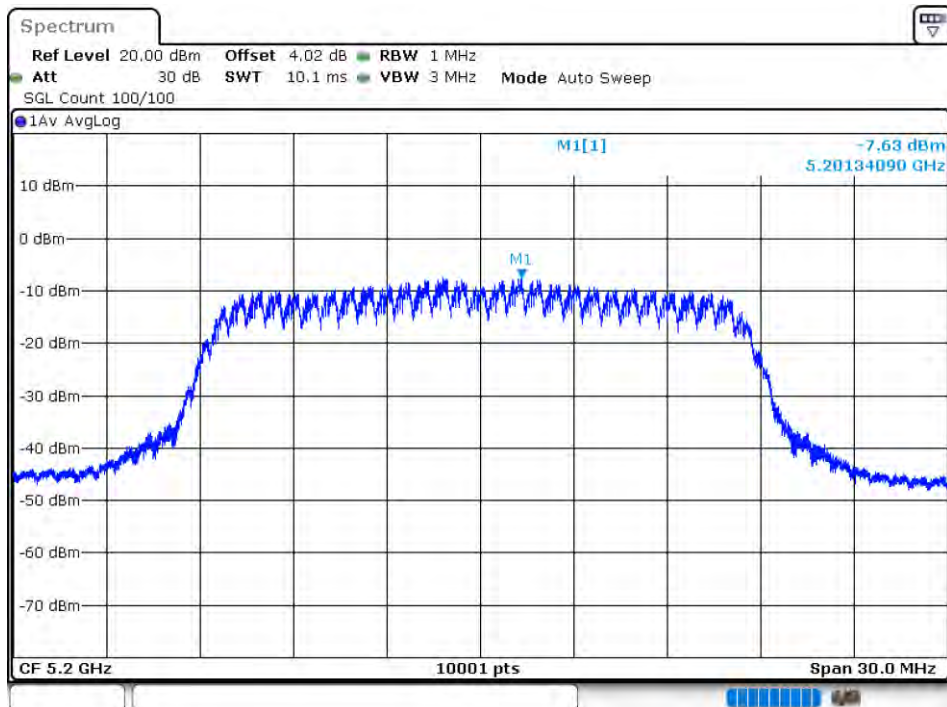
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-5.3	0.65	-4.65	11	Pass
NVNT	a	5200	Ant1	-7.63	0.66	-6.97	11	Pass
NVNT	a	5240	Ant1	-6.05	0.66	-5.39	11	Pass
NVNT	n20	5180	Ant1	-7.83	0.7	-7.13	11	Pass
NVNT	n20	5200	Ant1	-7.34	0.7	-6.64	11	Pass
NVNT	n20	5240	Ant1	-5.14	0.7	-4.44	11	Pass
NVNT	n40	5190	Ant1	-14.13	1.02	-13.11	11	Pass
NVNT	n40	5230	Ant1	-14.84	1.02	-13.82	11	Pass
NVNT	ac20	5180	Ant1	-7.45	0.68	-6.77	11	Pass
NVNT	ac20	5200	Ant1	-8.1	0.68	-7.42	11	Pass
NVNT	ac20	5240	Ant1	-6.65	0.68	-5.97	11	Pass
NVNT	ac40	5190	Ant1	-13.44	1.09	-12.35	11	Pass
NVNT	ac40	5230	Ant1	-14.76	1.08	-13.68	11	Pass
NVNT	ac80	5210	Ant1	-19.61	1.88	-17.73	11	Pass

Test Graphs

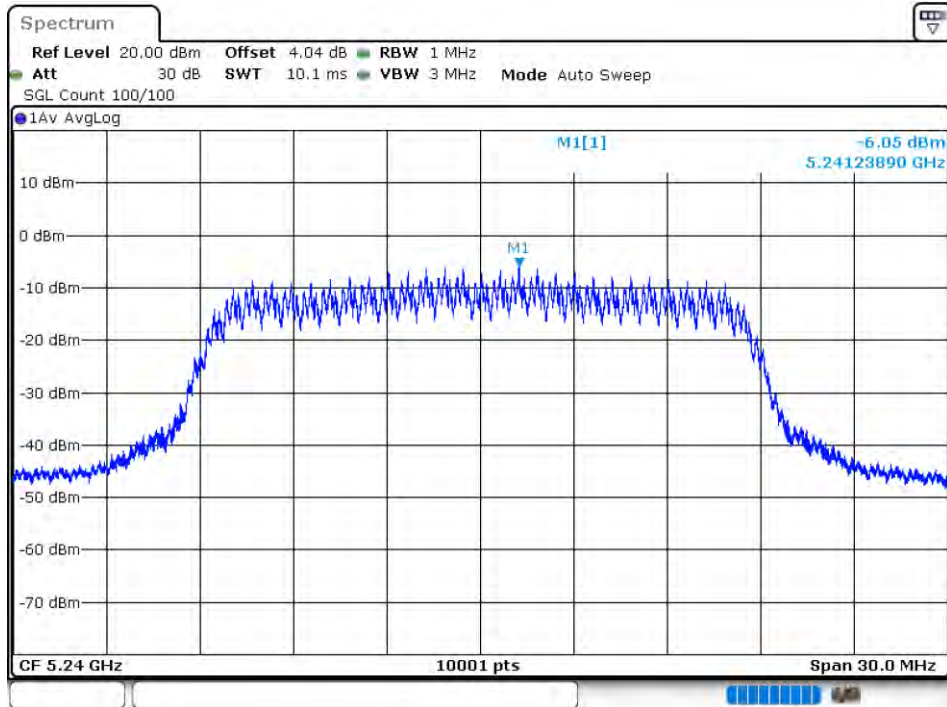
PSD NVNT a 5180MHz Ant1



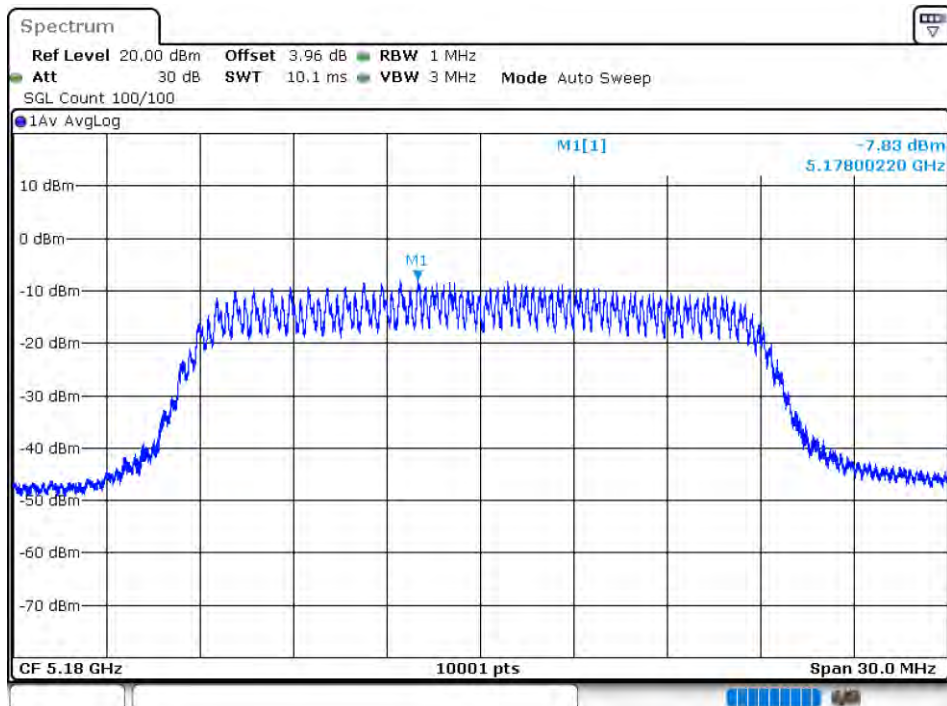
PSD NVNT a 5200MHz Ant1

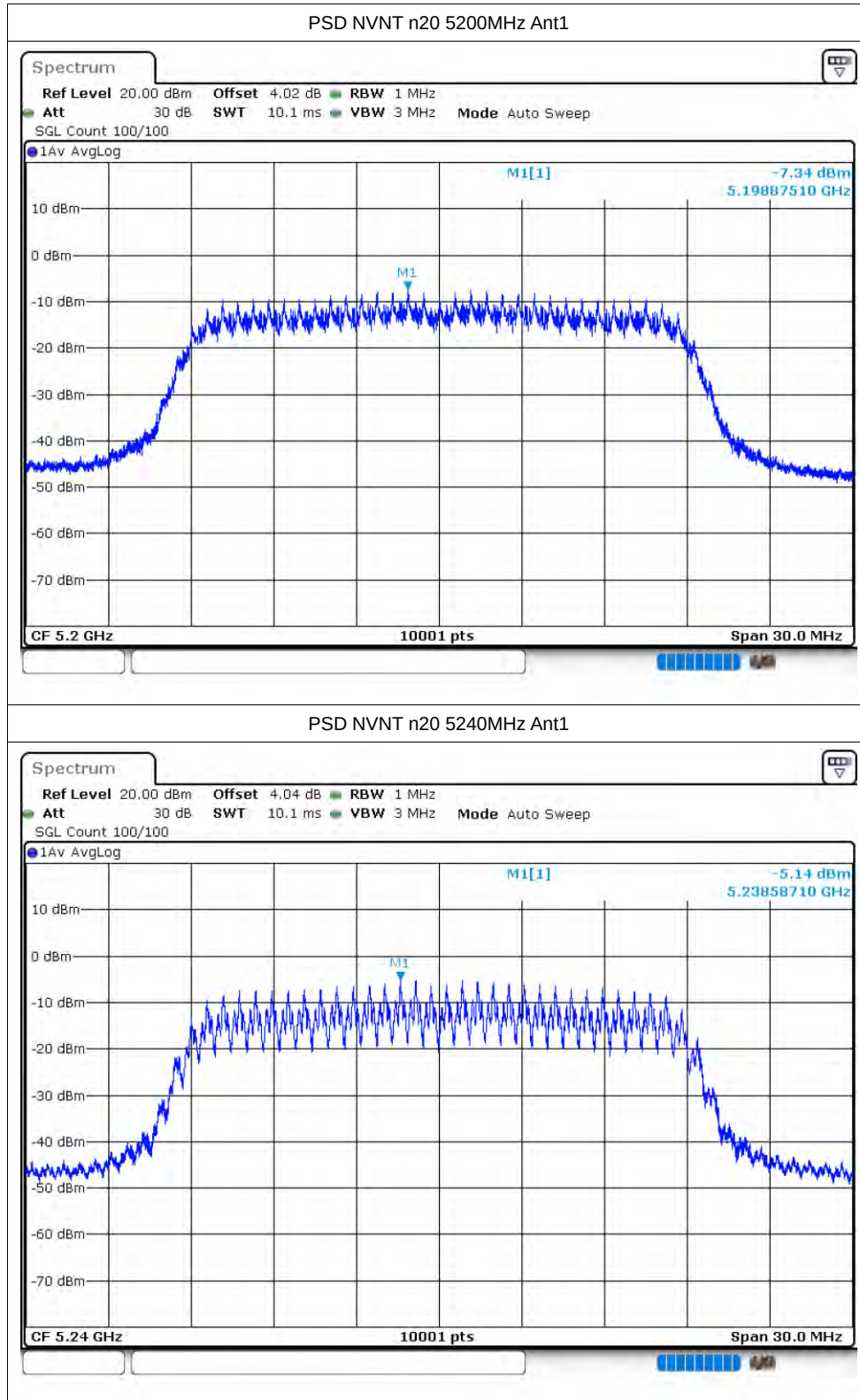


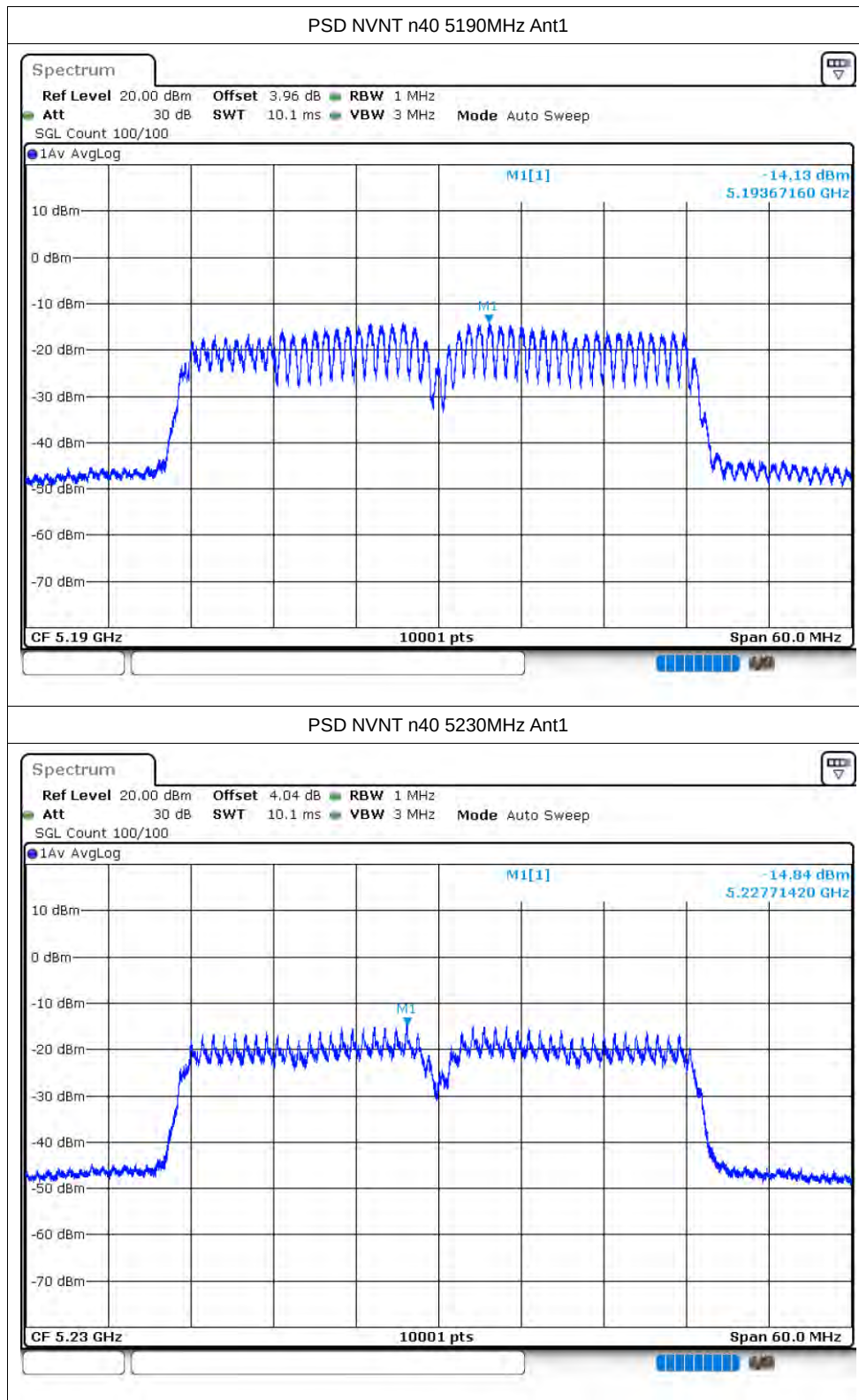
PSD NVNT a 5240MHz Ant1

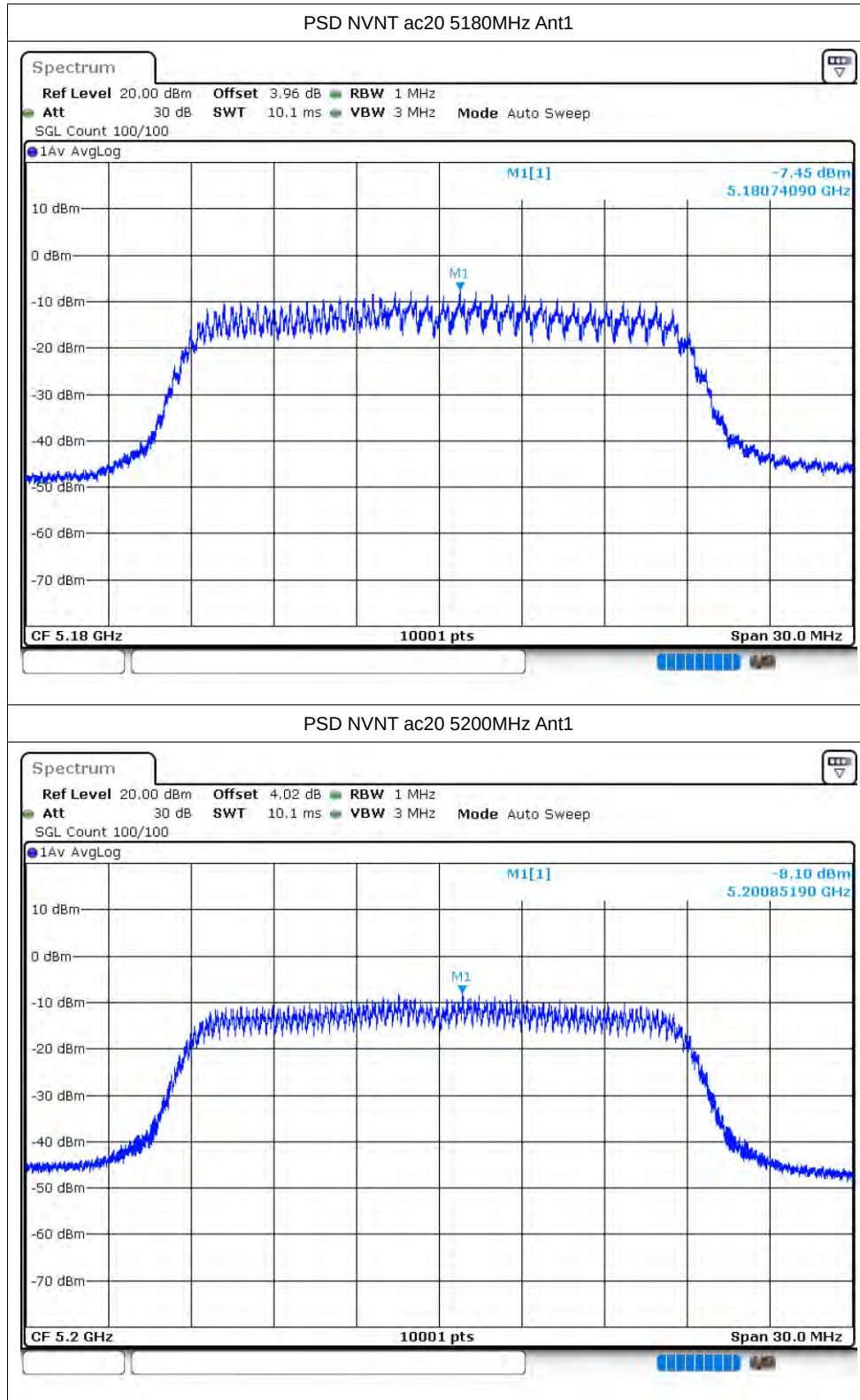


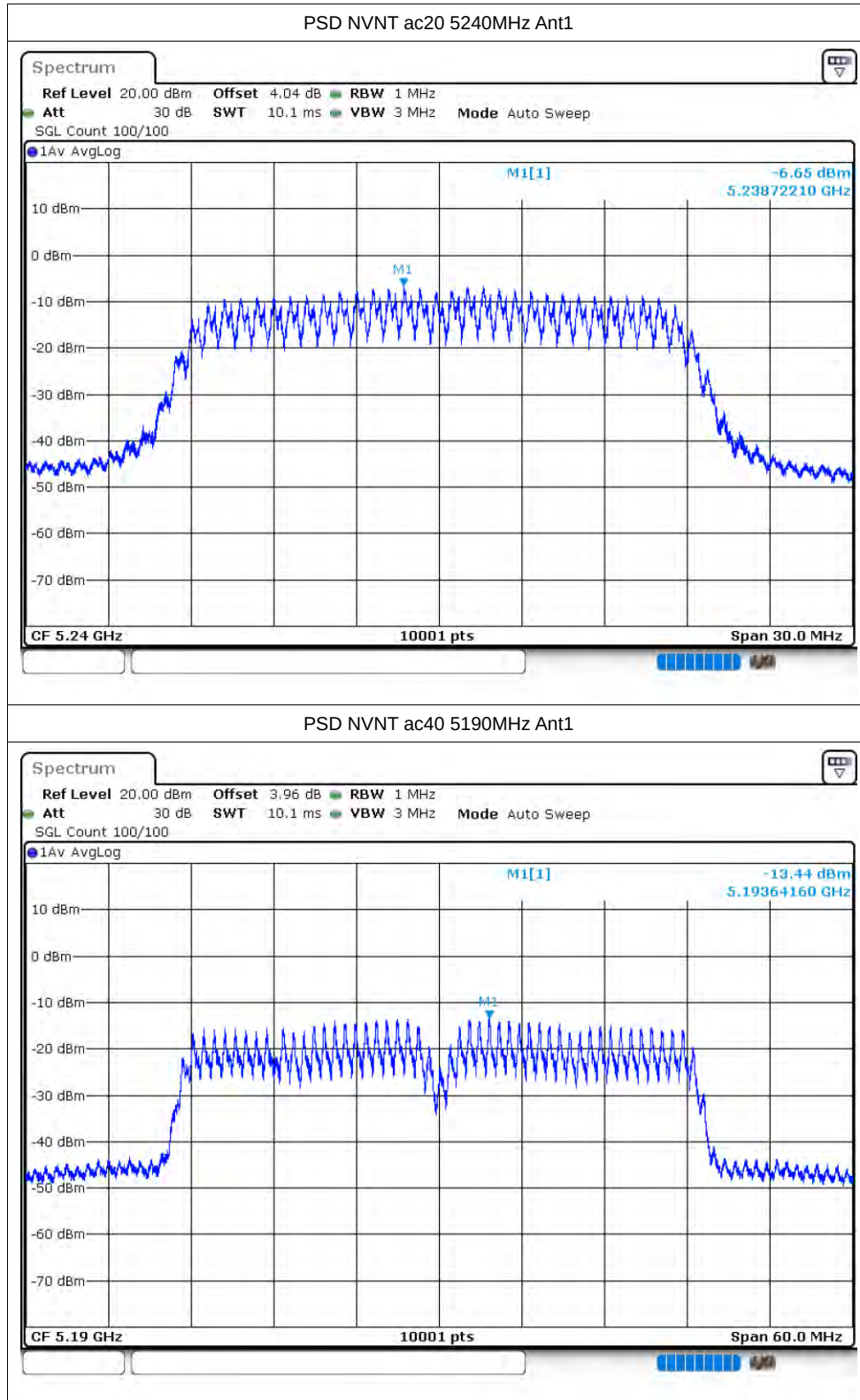
PSD NVNT n20 5180MHz Ant1

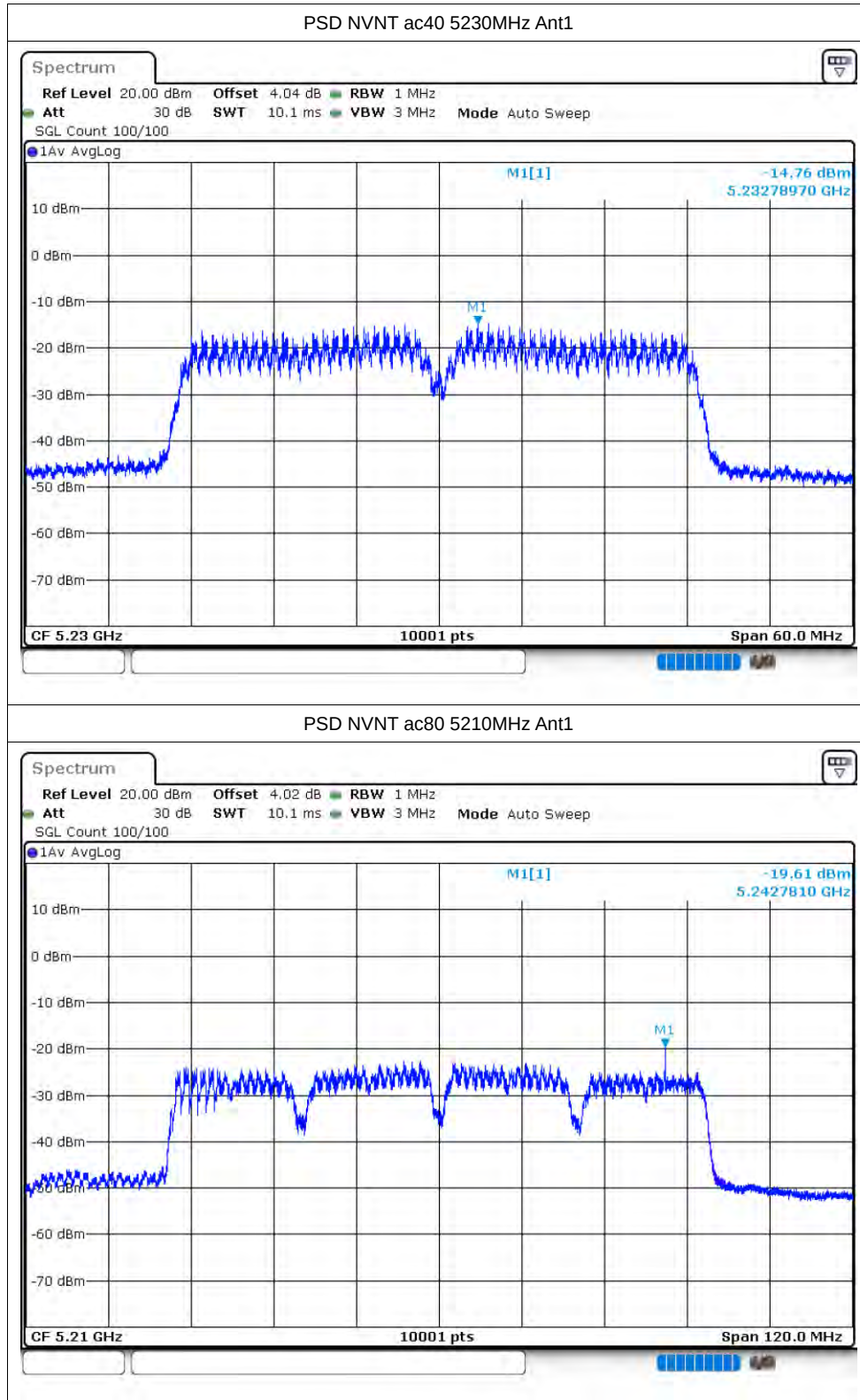










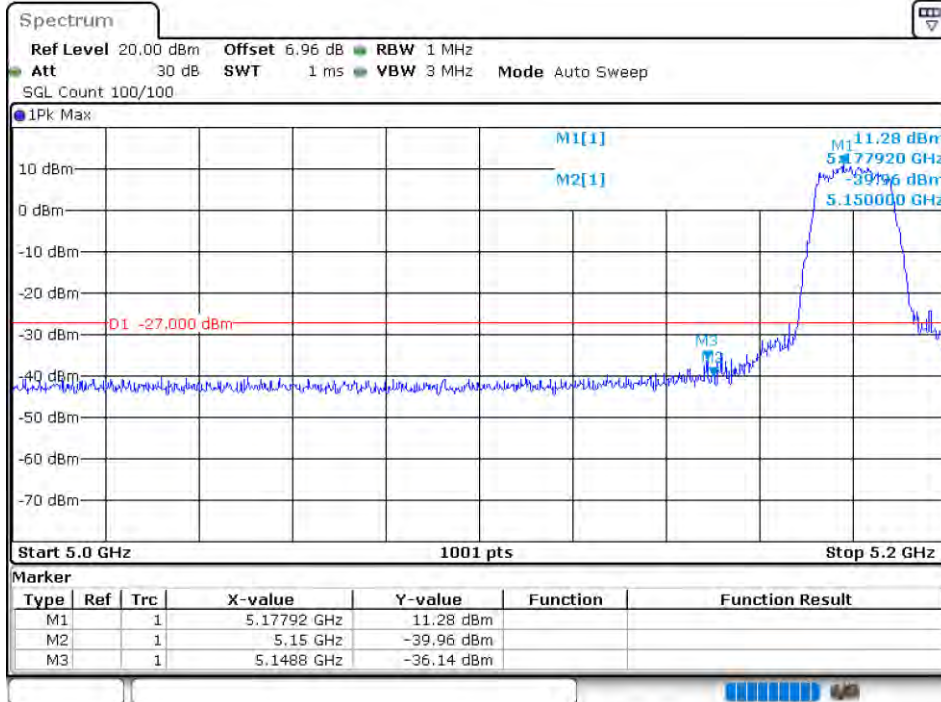


Band Edge

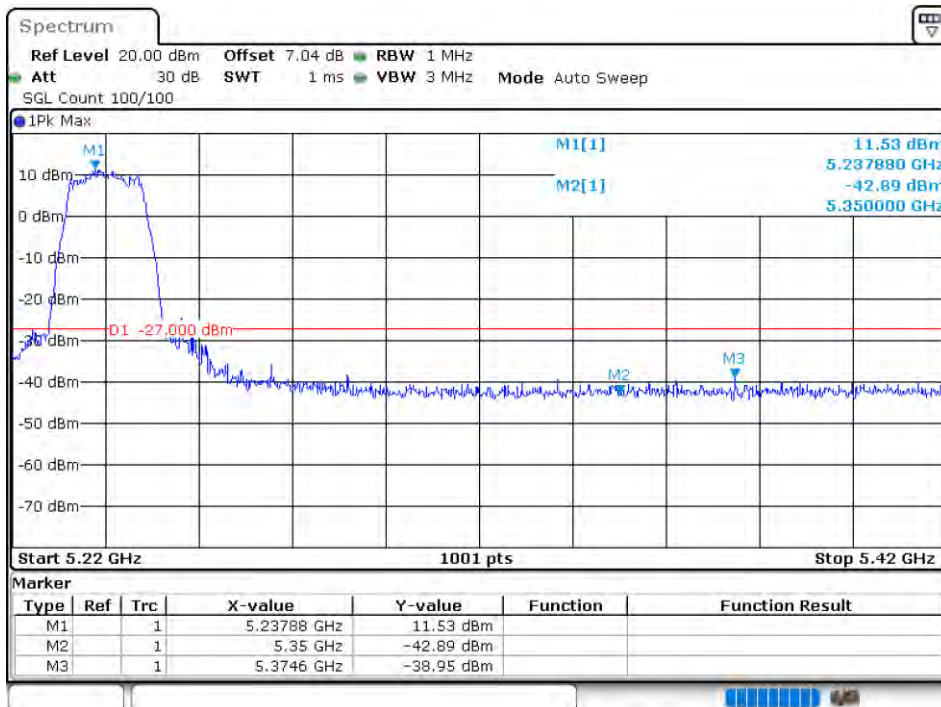
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-36.13	-27	Pass
NVNT	a	5240	Ant1	-38.95	-27	Pass
NVNT	n20	5180	Ant1	-33.71	-27	Pass
NVNT	n20	5240	Ant1	-39.85	-27	Pass
NVNT	n40	5190	Ant1	-28.28	-27	Pass
NVNT	n40	5230	Ant1	-39.33	-27	Pass
NVNT	ac20	5180	Ant1	-37.84	-27	Pass
NVNT	ac20	5240	Ant1	-39.86	-27	Pass
NVNT	ac40	5190	Ant1	-29.52	-27	Pass
NVNT	ac40	5230	Ant1	-39.77	-27	Pass
NVNT	ac80	5210	Ant1	-39.18	-27	Pass
NVNT	ac80	5210	Ant1	-30.1	-27	Pass

Test Graphs

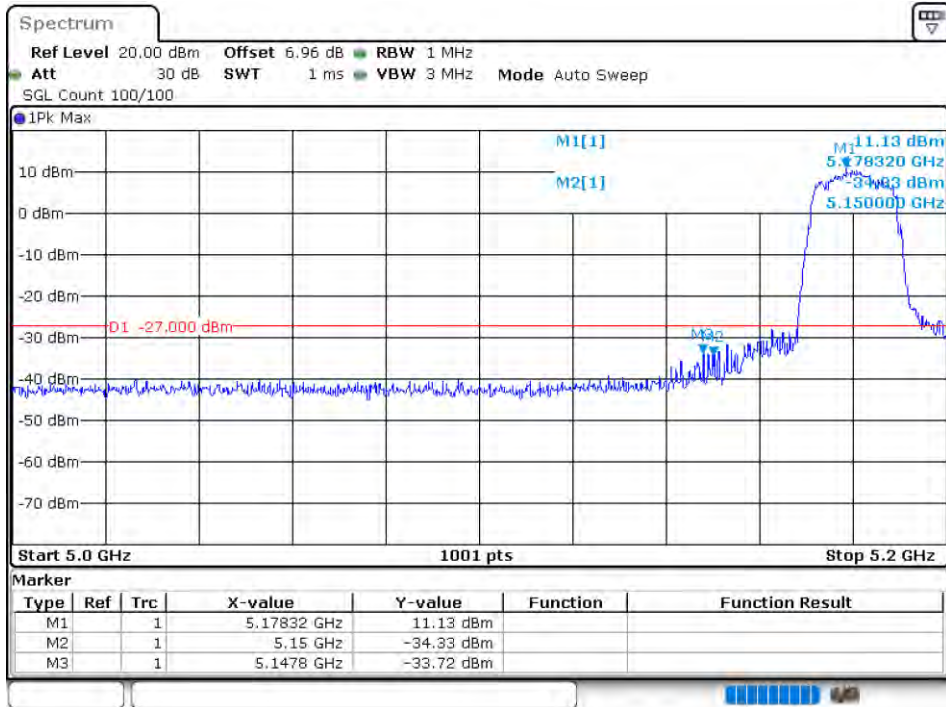
Band Edge NVNT a 5180MHz Low Ant1



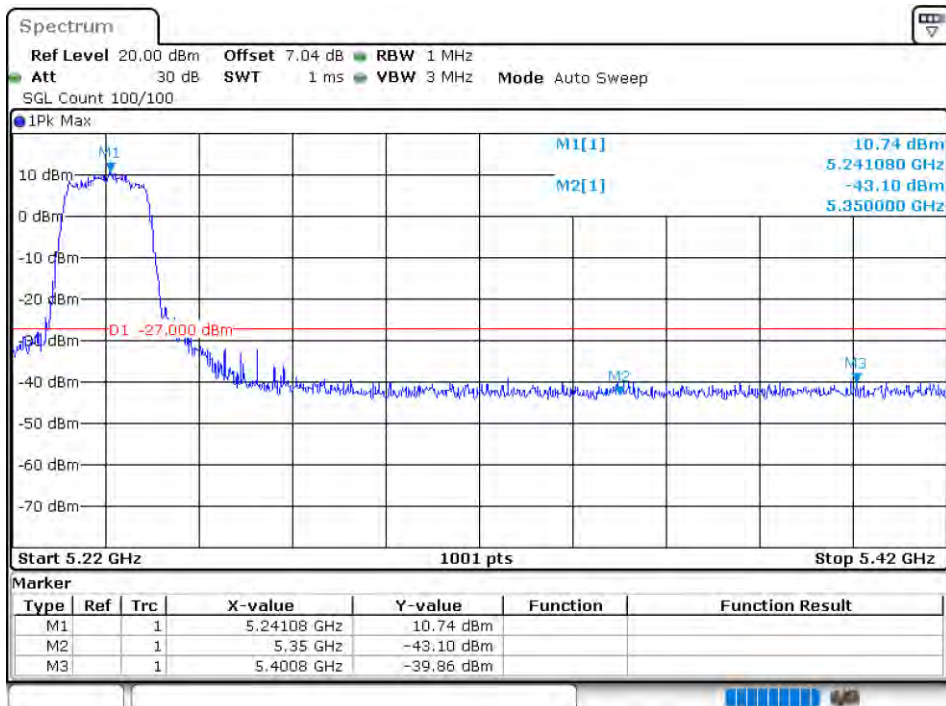
Band Edge NVNT a 5240MHz High Ant1



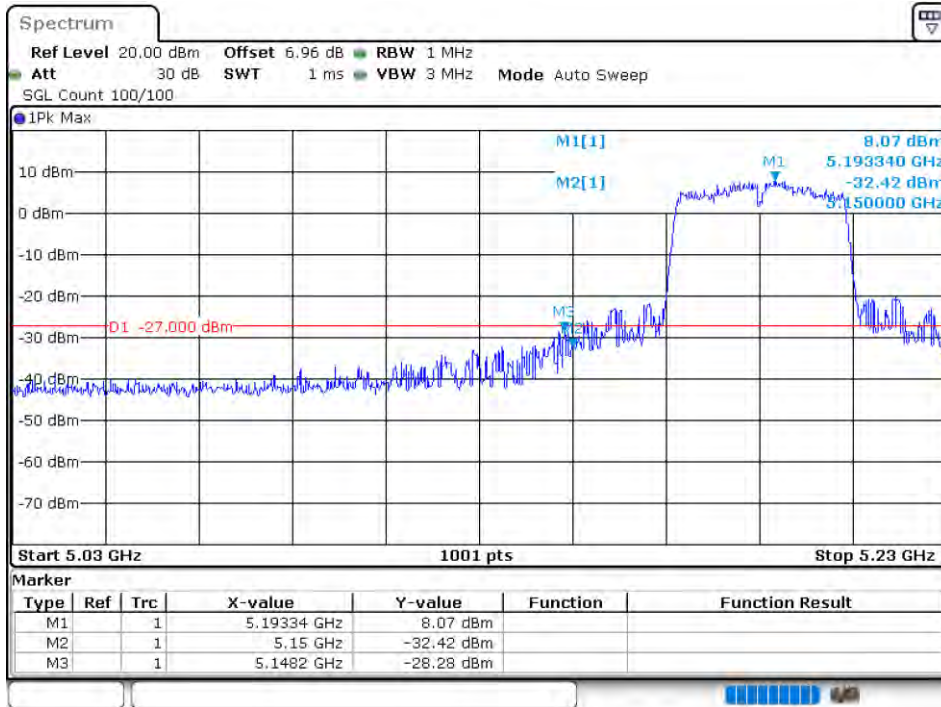
Band Edge NVNT n20 5180MHz Low Ant1



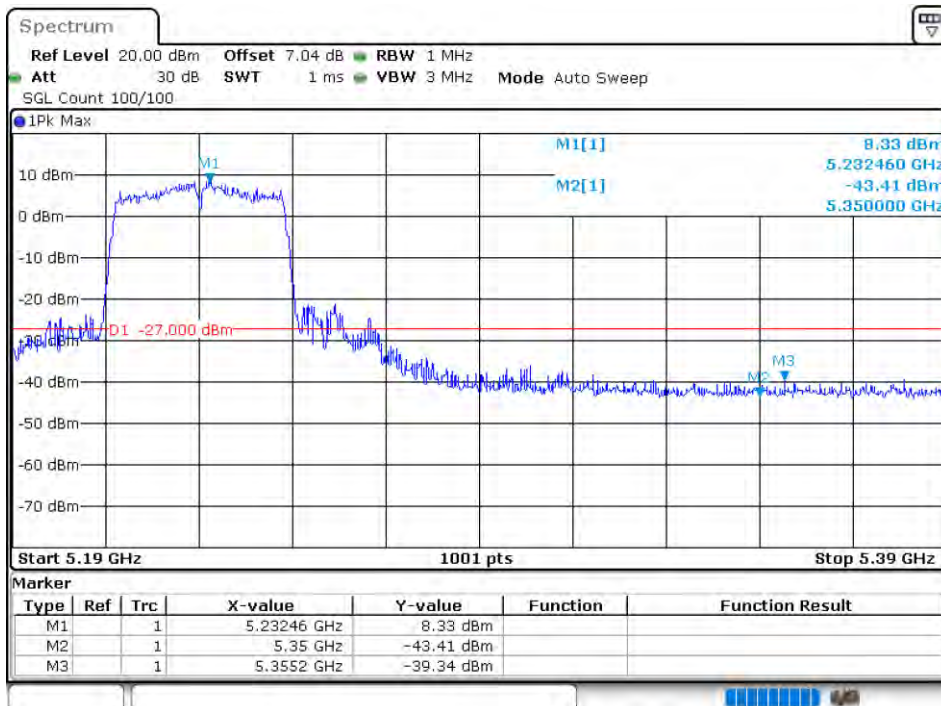
Band Edge NVNT n20 5240MHz High Ant1



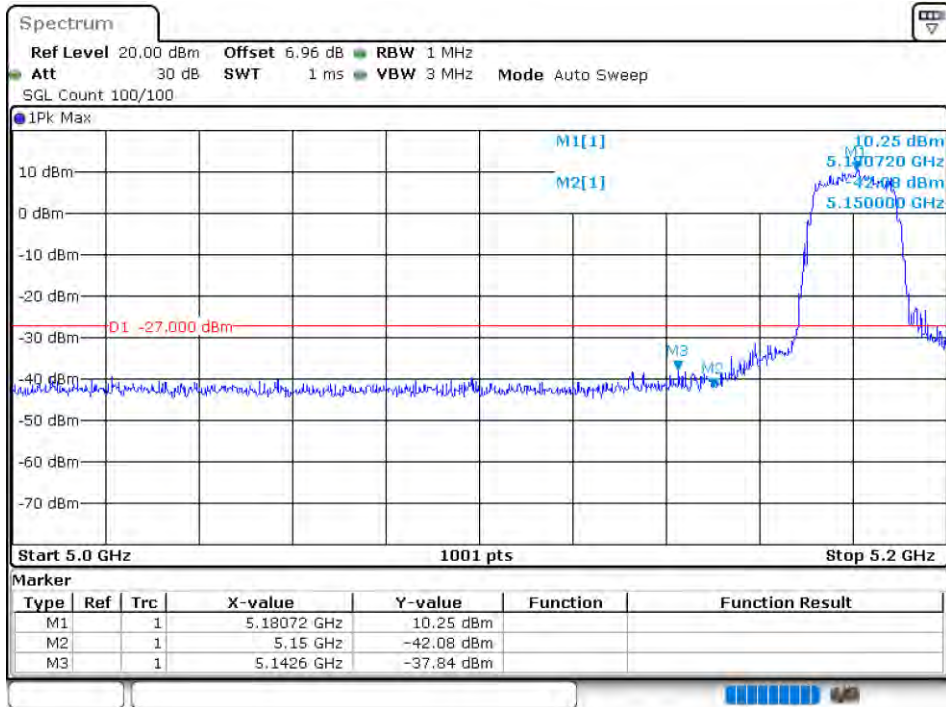
Band Edge NVNT n40 5190MHz Low Ant1



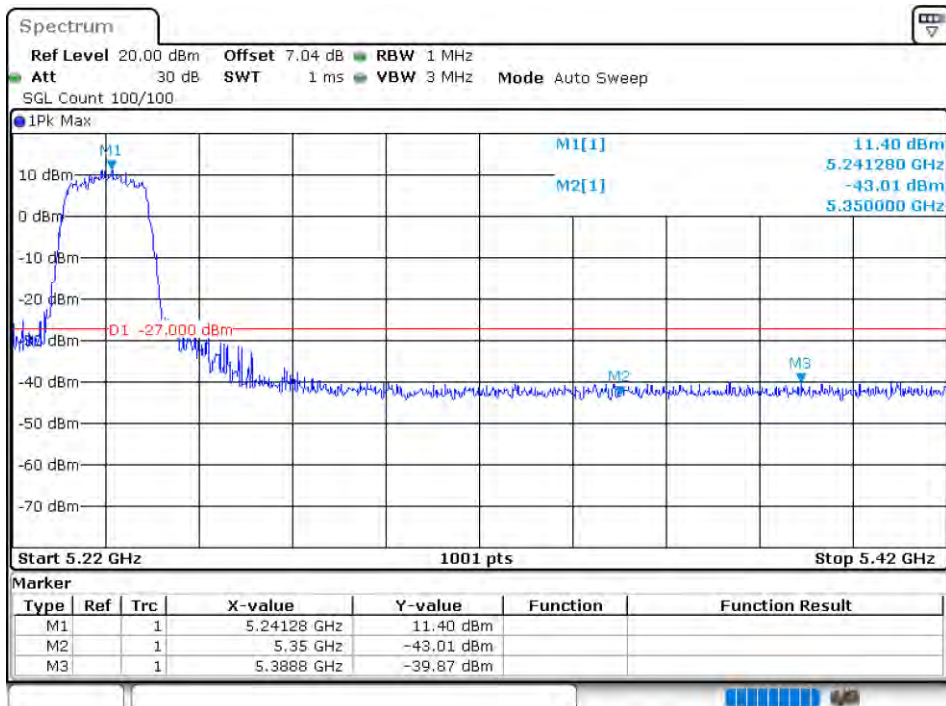
Band Edge NVNT n40 5230MHz High Ant1



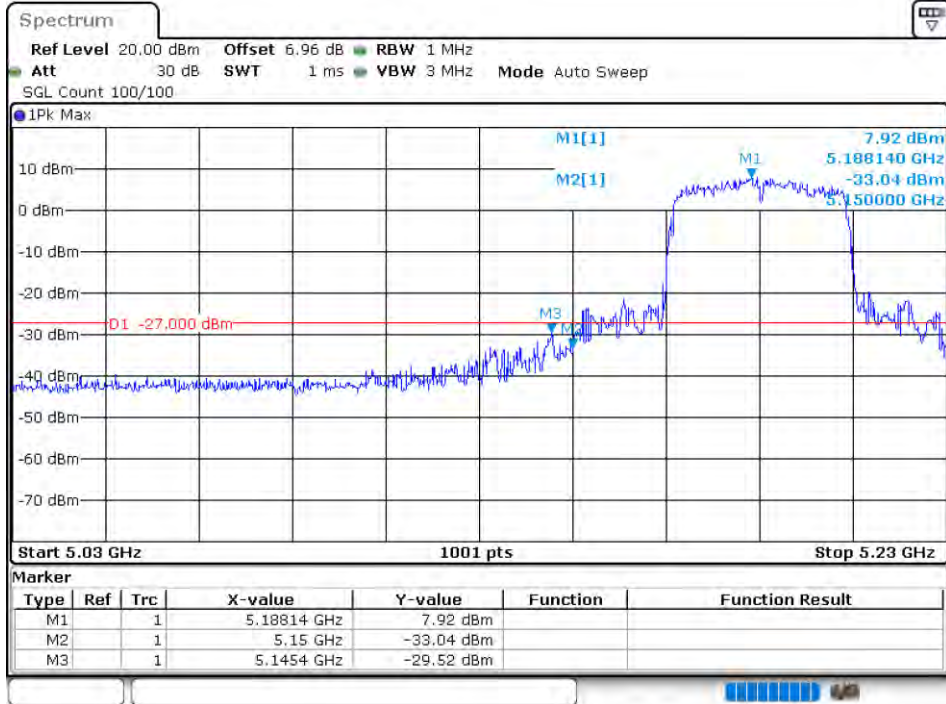
Band Edge NVNT ac20 5180MHz Low Ant1



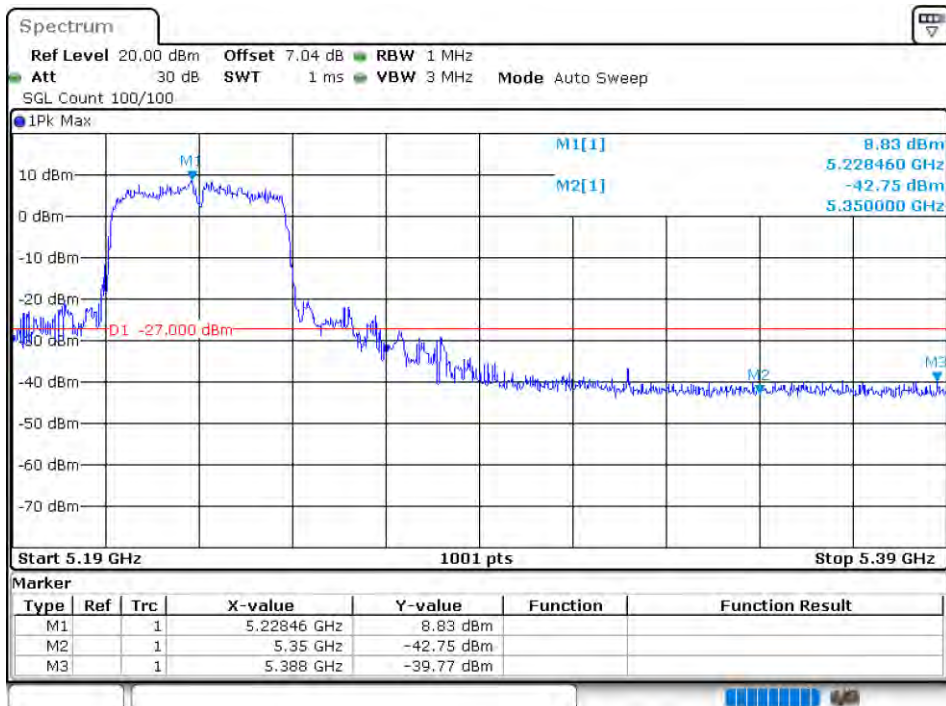
Band Edge NVNT ac20 5240MHz High Ant1



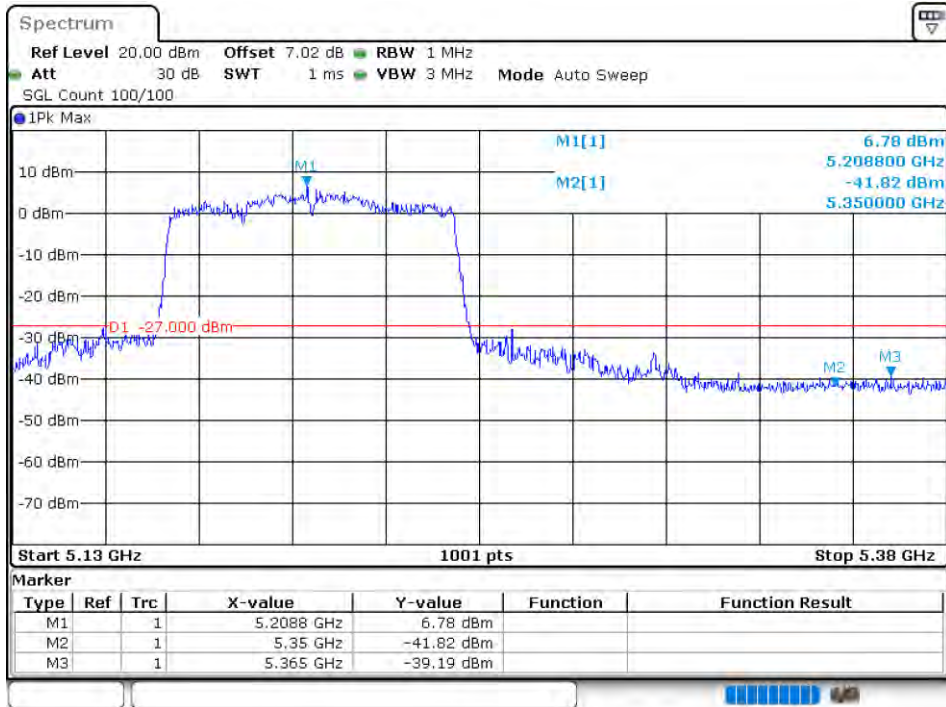
Band Edge NVNT ac40 5190MHz Low Ant1



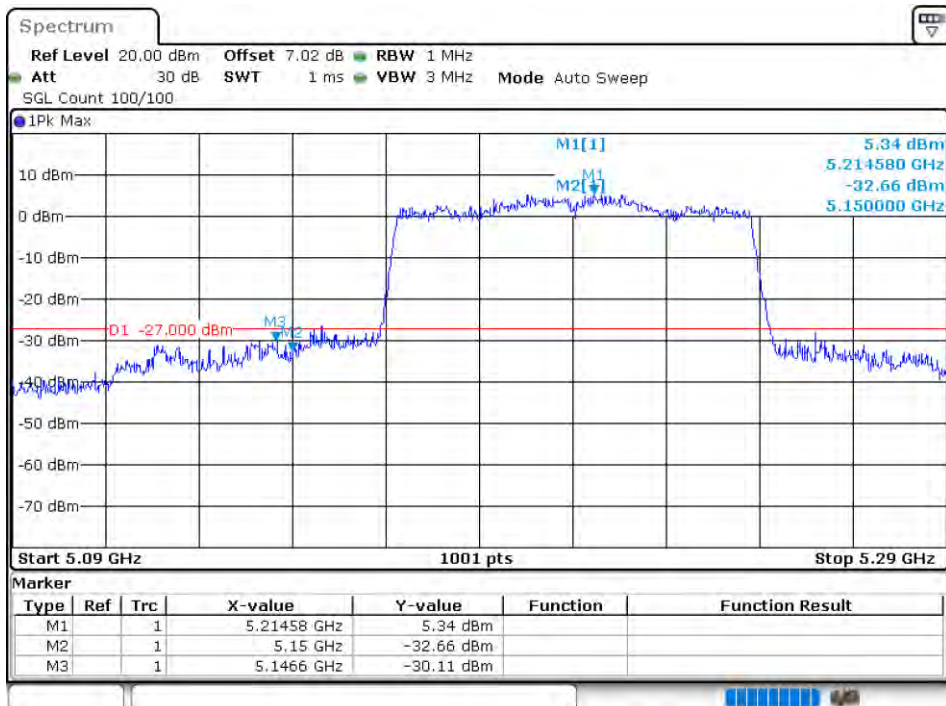
Band Edge NVNT ac40 5230MHz High Ant1



Band Edge NVNT ac80 5210MHz High Ant1



Band Edge NVNT ac80 5210MHz Low Ant1

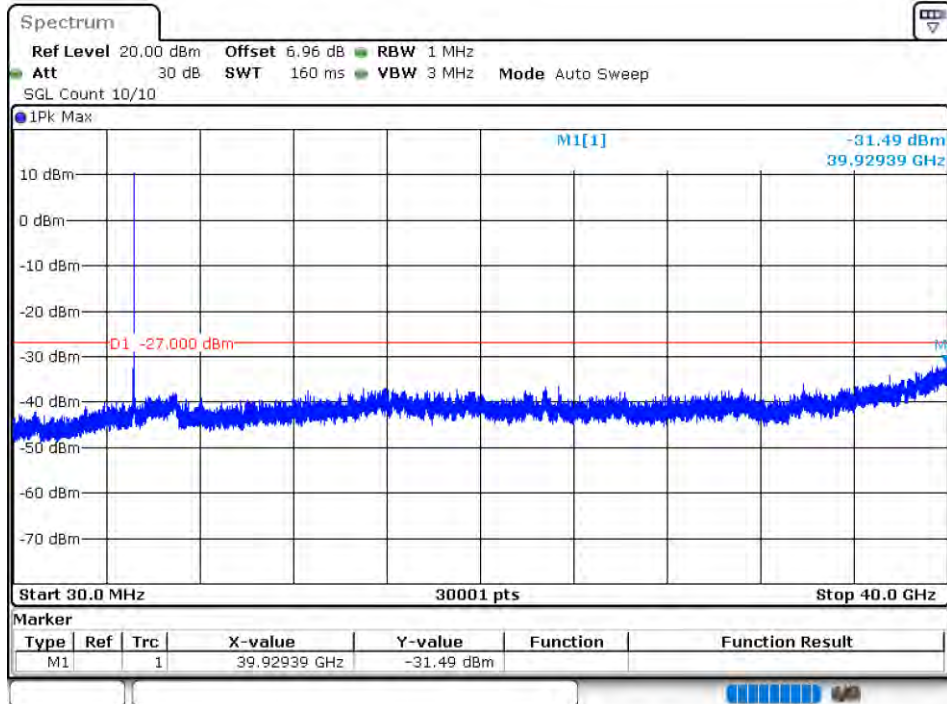


Conducted RF Spurious Emission

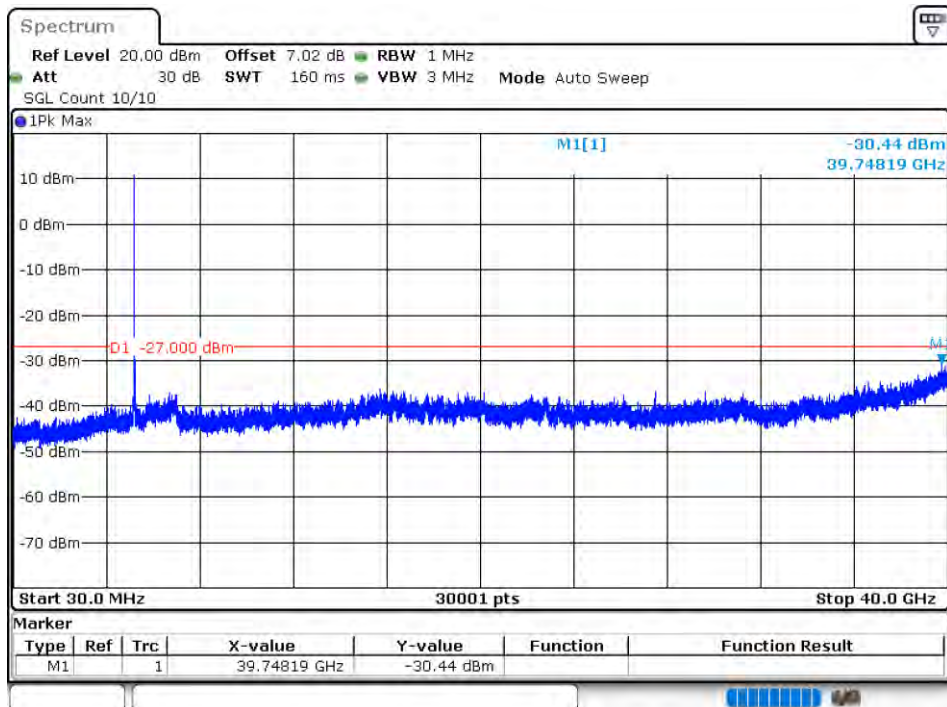
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-31.48	-27	Pass
NVNT	a	5200	Ant1	-30.43	-27	Pass
NVNT	a	5240	Ant1	-30.62	-27	Pass
NVNT	n20	5180	Ant1	-31.4	-27	Pass
NVNT	n20	5200	Ant1	-30.84	-27	Pass
NVNT	n20	5240	Ant1	-31.42	-27	Pass
NVNT	n40	5190	Ant1	-31.37	-27	Pass
NVNT	n40	5230	Ant1	-31.62	-27	Pass
NVNT	ac20	5180	Ant1	-30.73	-27	Pass
NVNT	ac20	5200	Ant1	-30.99	-27	Pass
NVNT	ac20	5240	Ant1	-31.91	-27	Pass
NVNT	ac40	5190	Ant1	-31.11	-27	Pass
NVNT	ac40	5230	Ant1	-31.56	-27	Pass
NVNT	ac80	5210	Ant1	-28.91	-27	Pass

Test Graphs

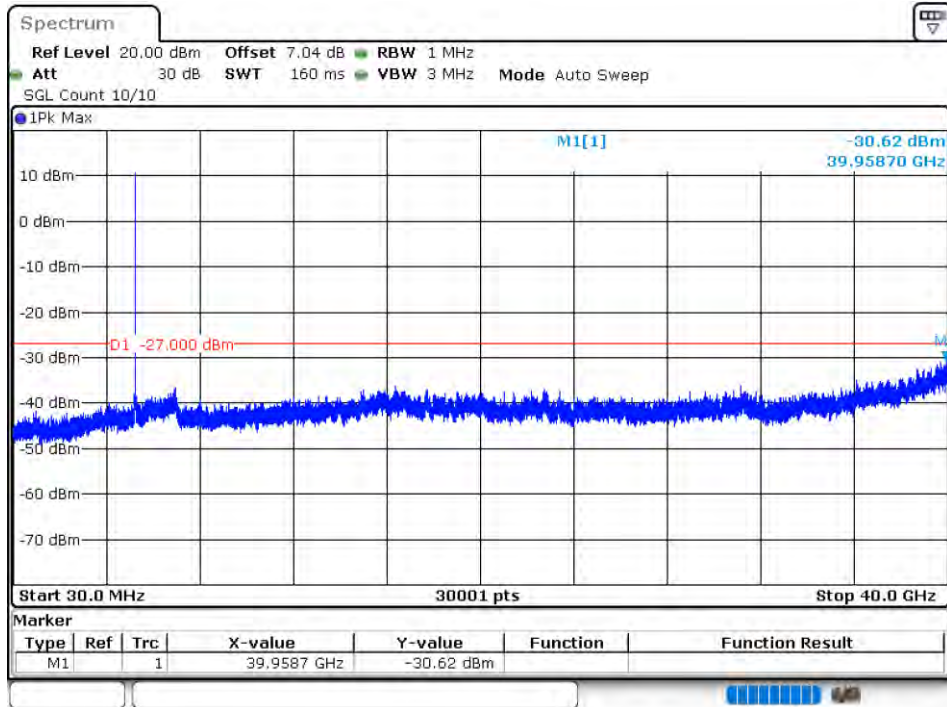
Tx. Spurious NVNT a 5180MHz Ant1 Emission



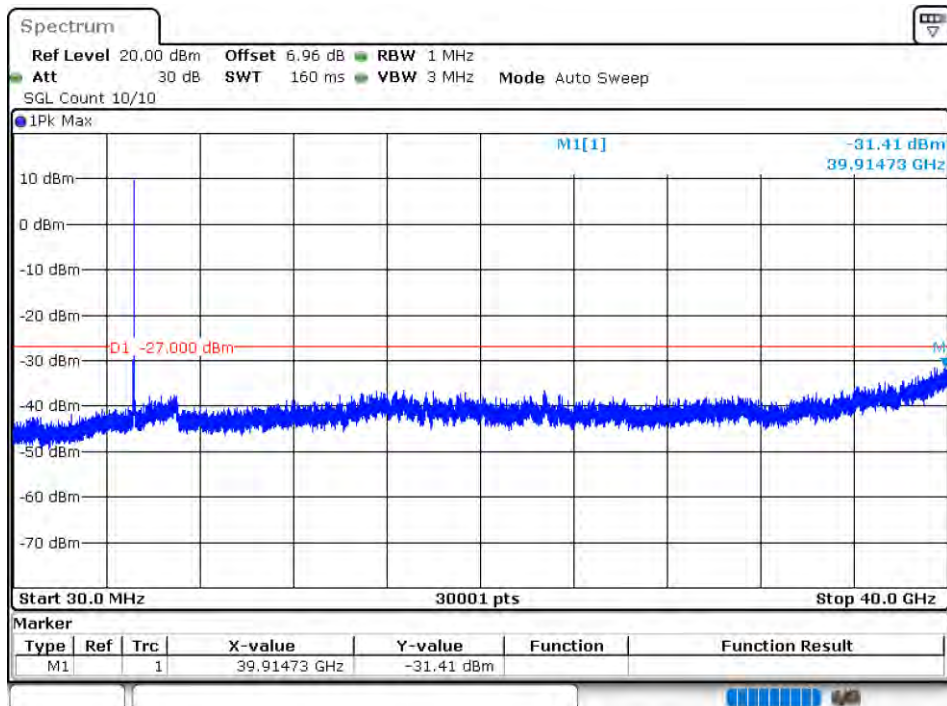
Tx. Spurious NVNT a 5200MHz Ant1 Emission



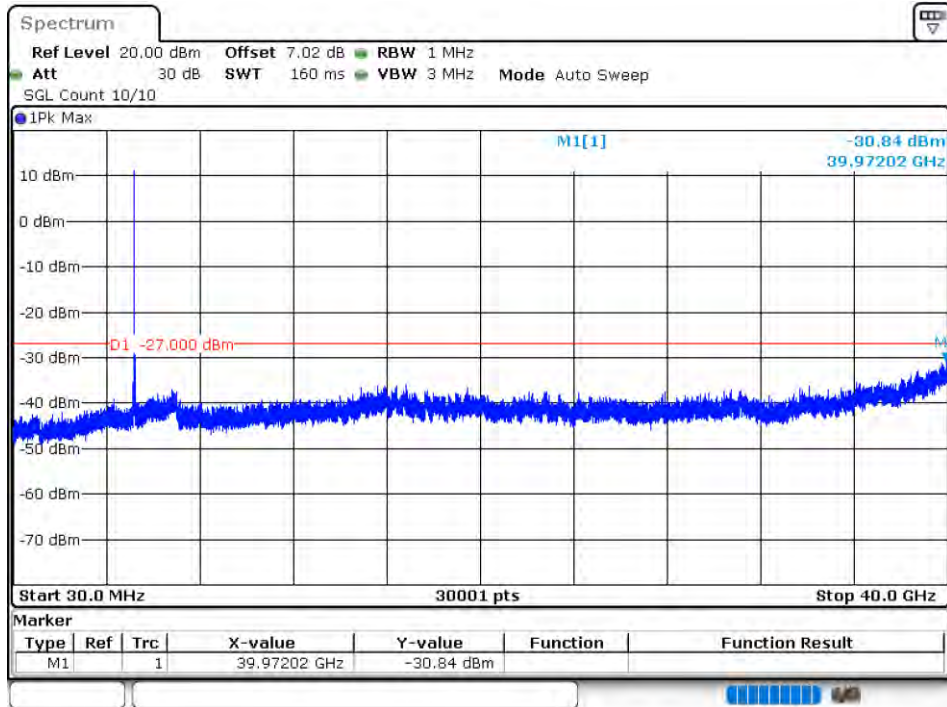
Tx. Spurious NVNT a 5240MHz Ant1 Emission



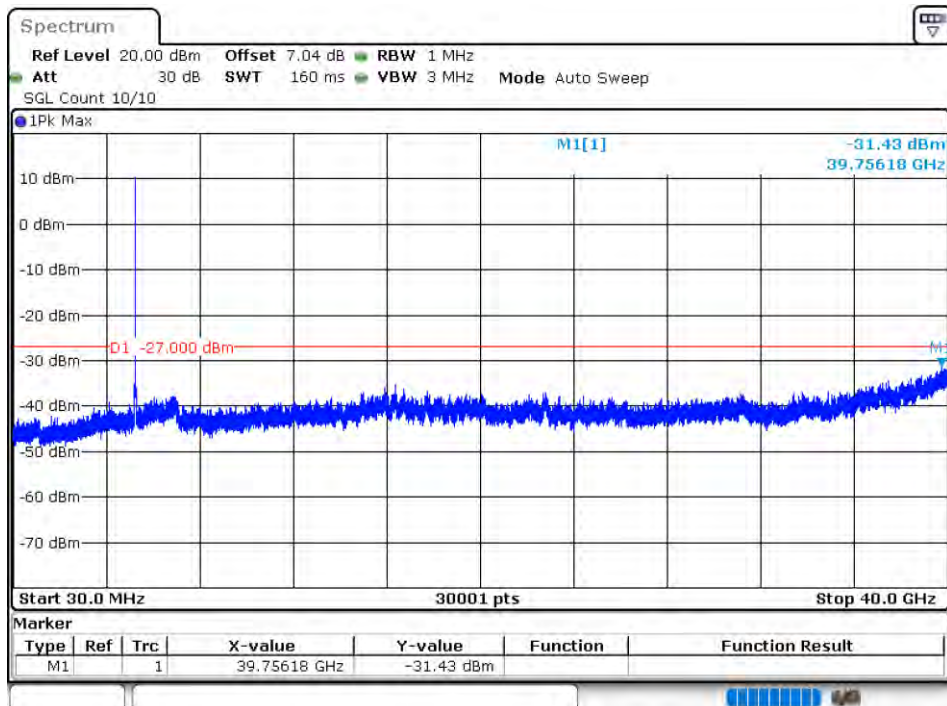
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



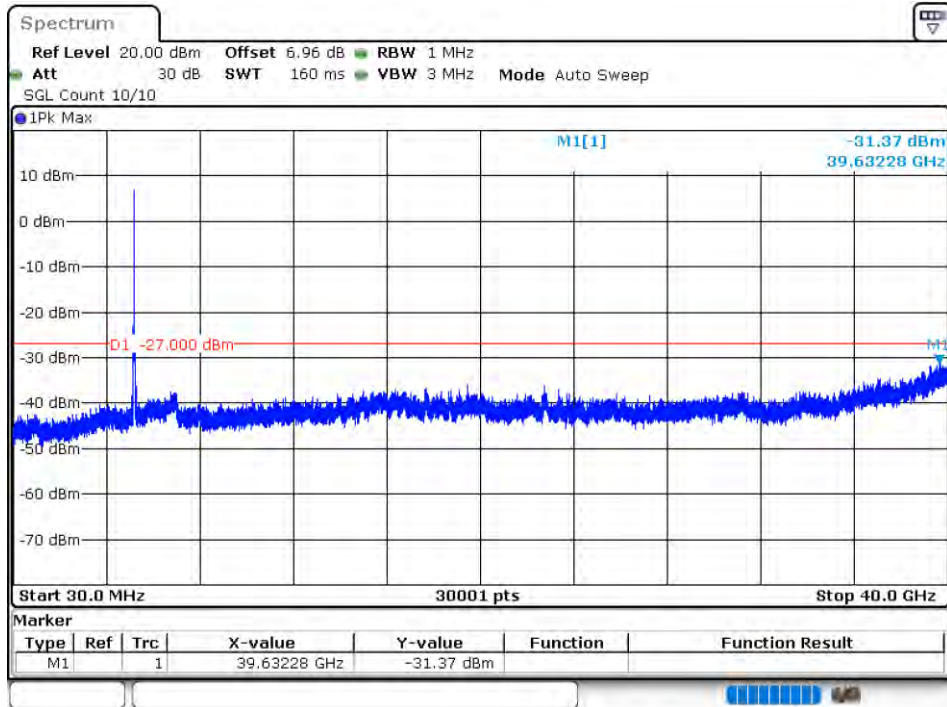
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



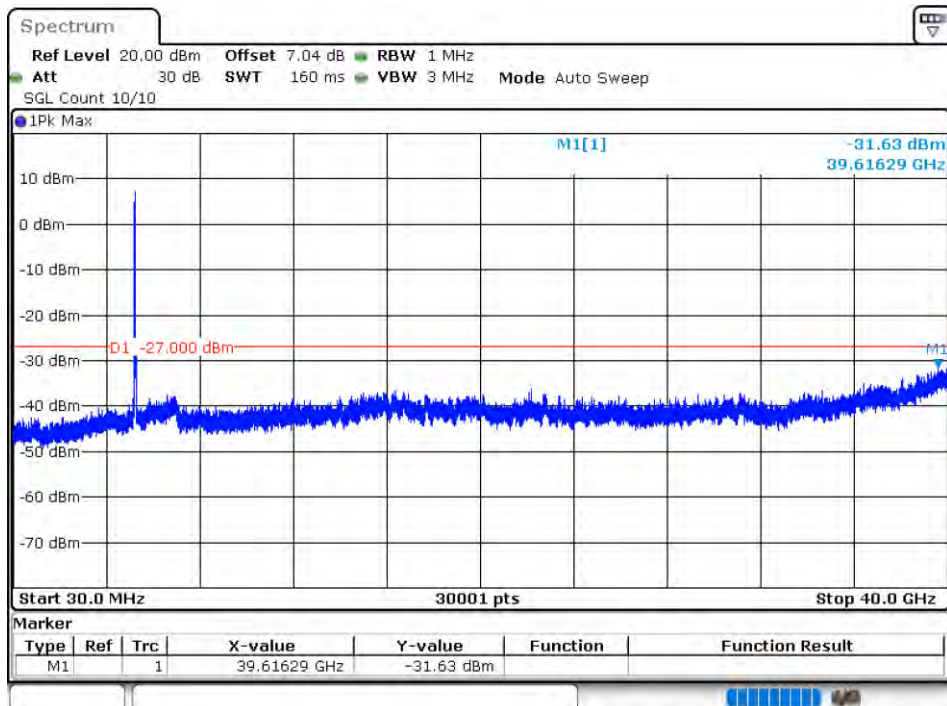
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



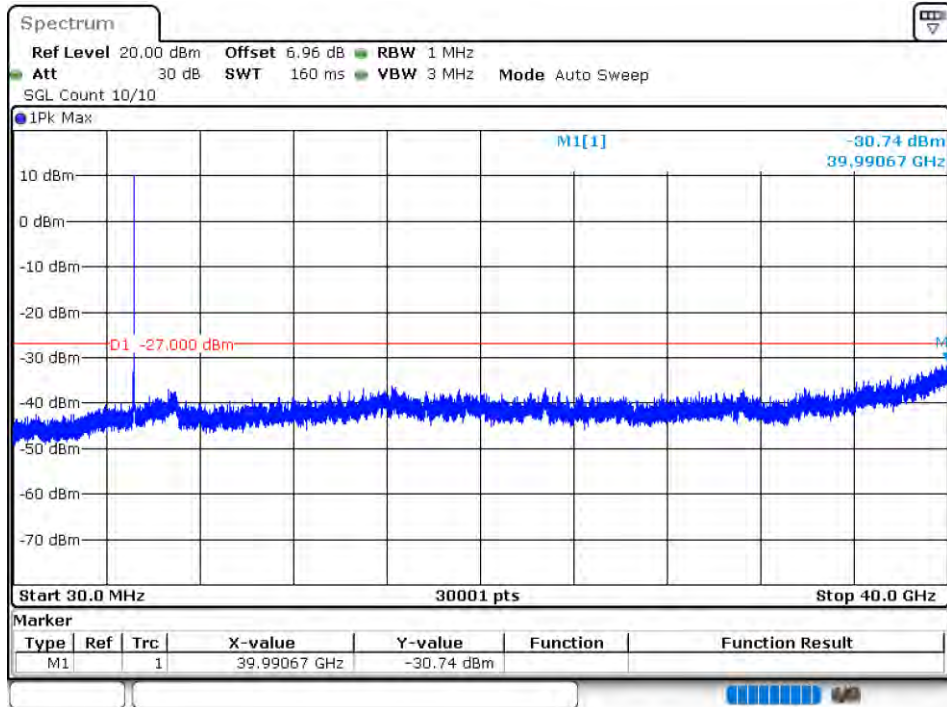
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



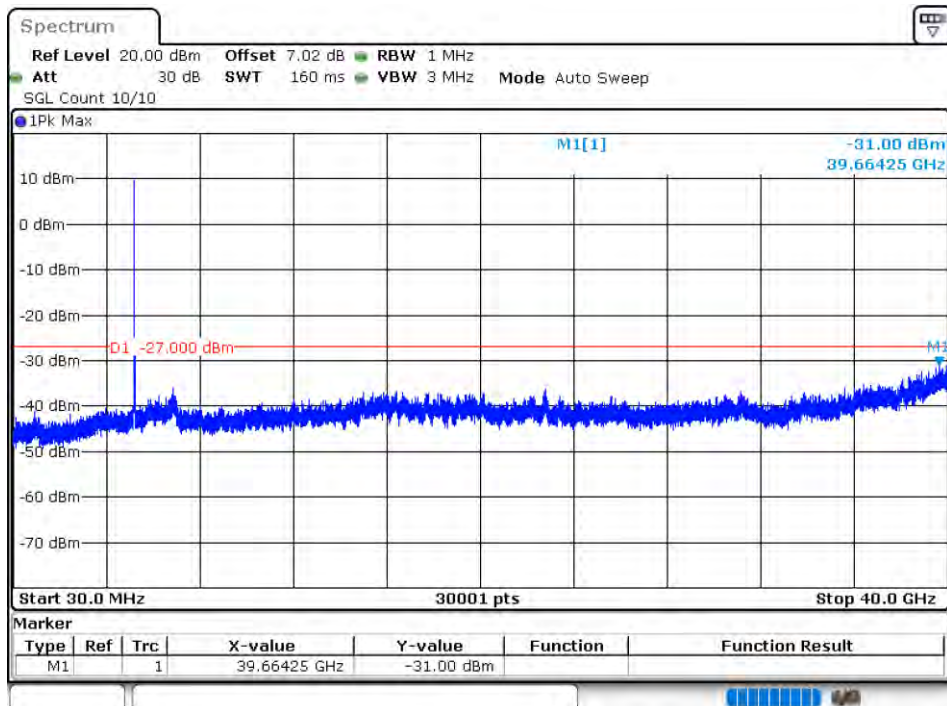
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



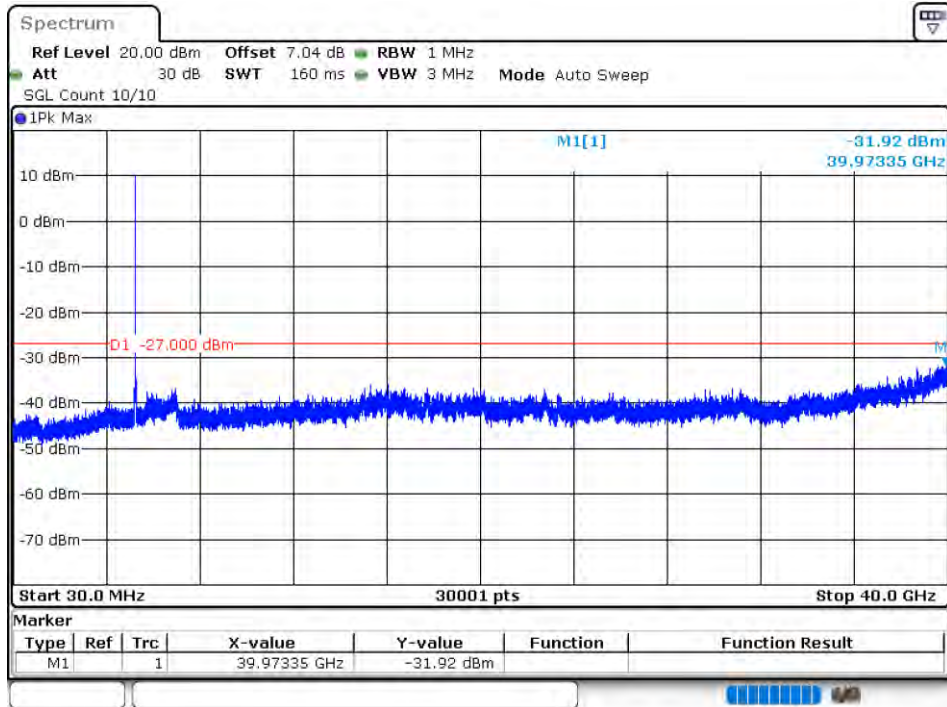
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



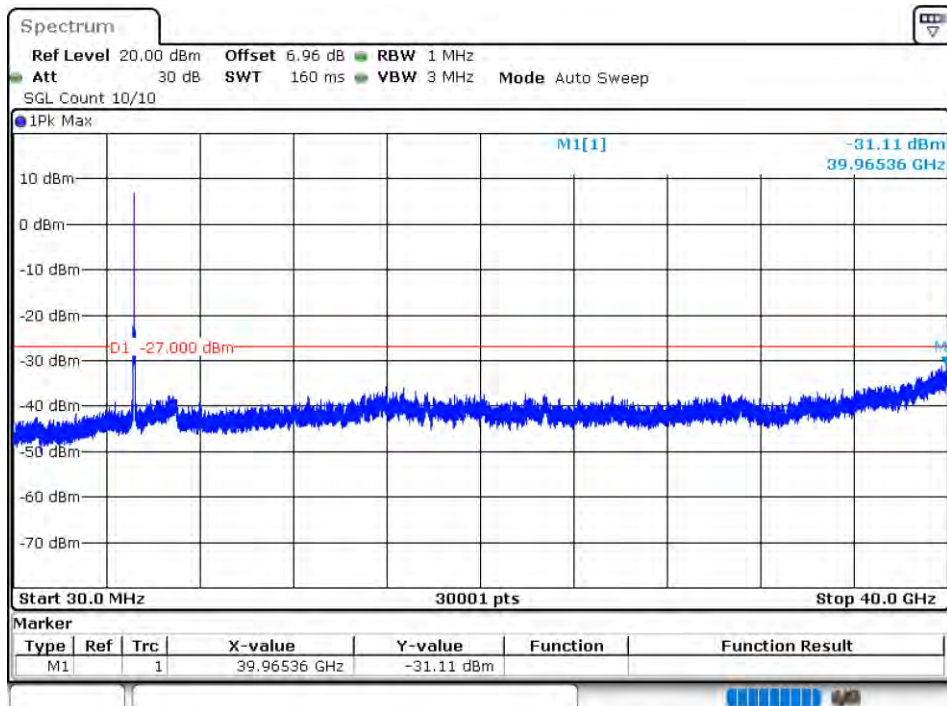
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission



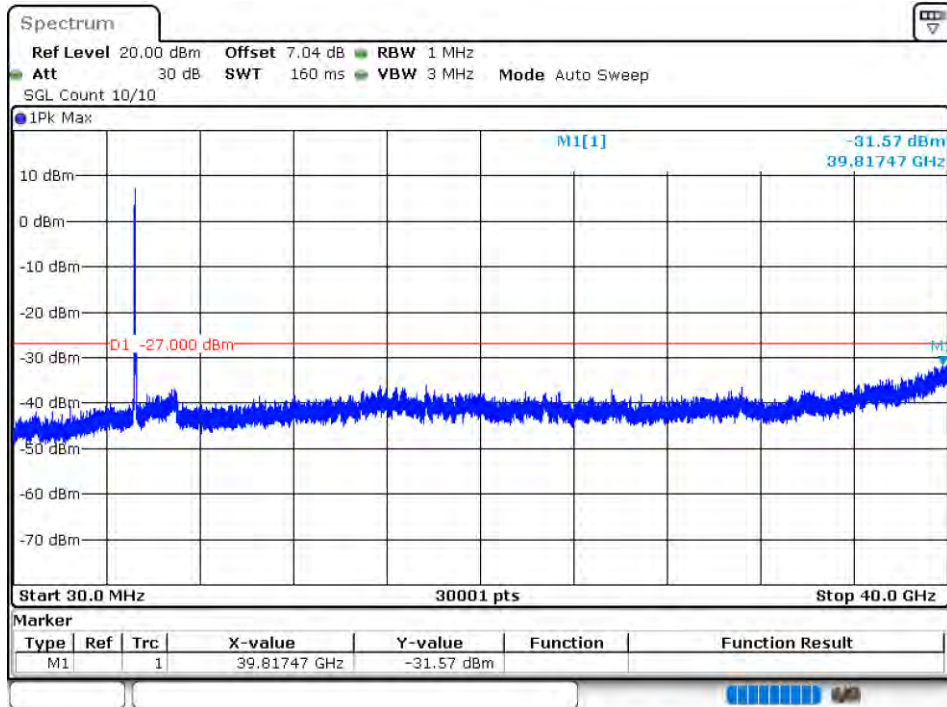
Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



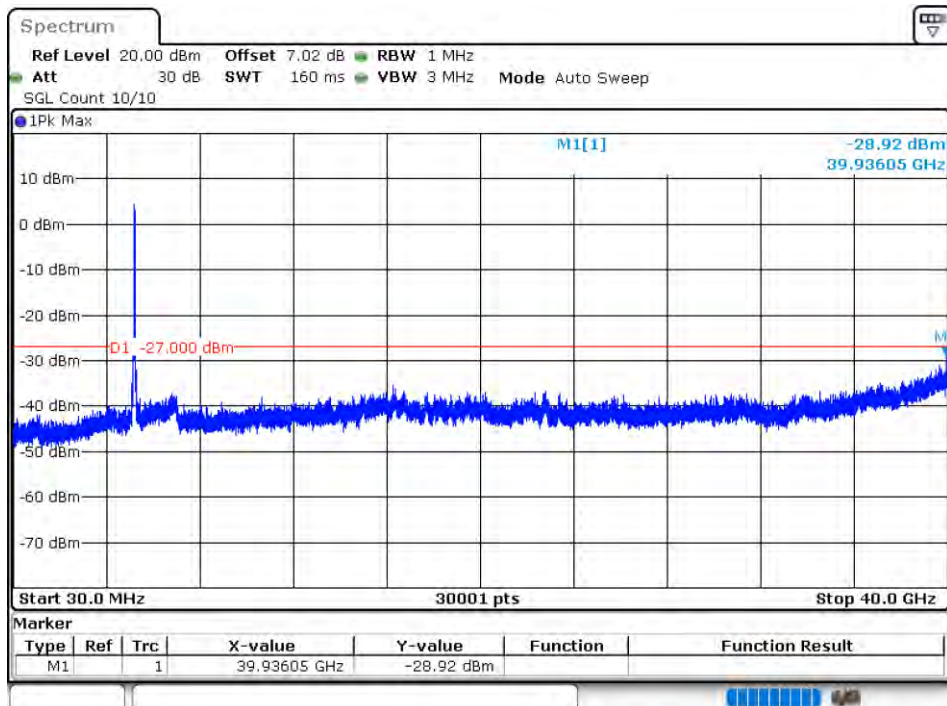
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



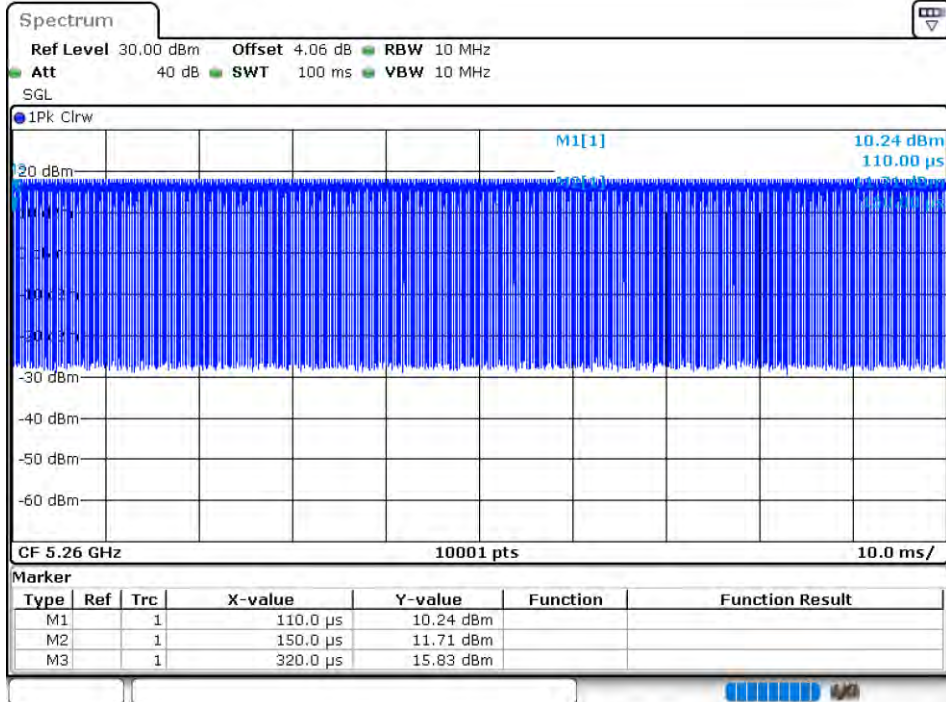
5.3G WIFI

Duty Cycle

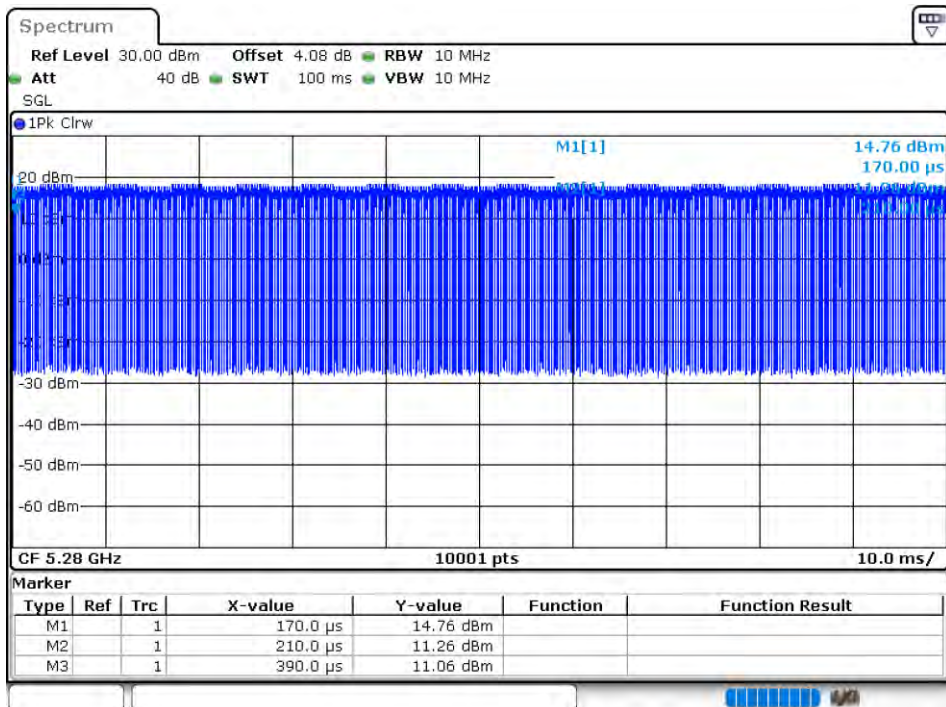
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	85.32	0.69	5.88
NVNT	a	5280	Ant1	85.34	0.69	5.56
NVNT	a	5320	Ant1	85.34	0.69	5.56
NVNT	n20	5260	Ant1	84.52	0.73	5.88
NVNT	n20	5280	Ant1	84.5	0.73	6.25
NVNT	n20	5320	Ant1	84.49	0.73	5.88
NVNT	n40	5270	Ant1	77.6	1.1	10
NVNT	n40	5310	Ant1	77.57	1.1	10
NVNT	ac20	5260	Ant1	84.87	0.71	5.88
NVNT	ac20	5280	Ant1	84.87	0.71	5.88
NVNT	ac20	5320	Ant1	84.85	0.71	5.88
NVNT	ac40	5270	Ant1	76.4	1.17	11.11
NVNT	ac40	5310	Ant1	76.44	1.17	11.11
NVNT	ac80	5290	Ant1	69.82	1.56	16.67

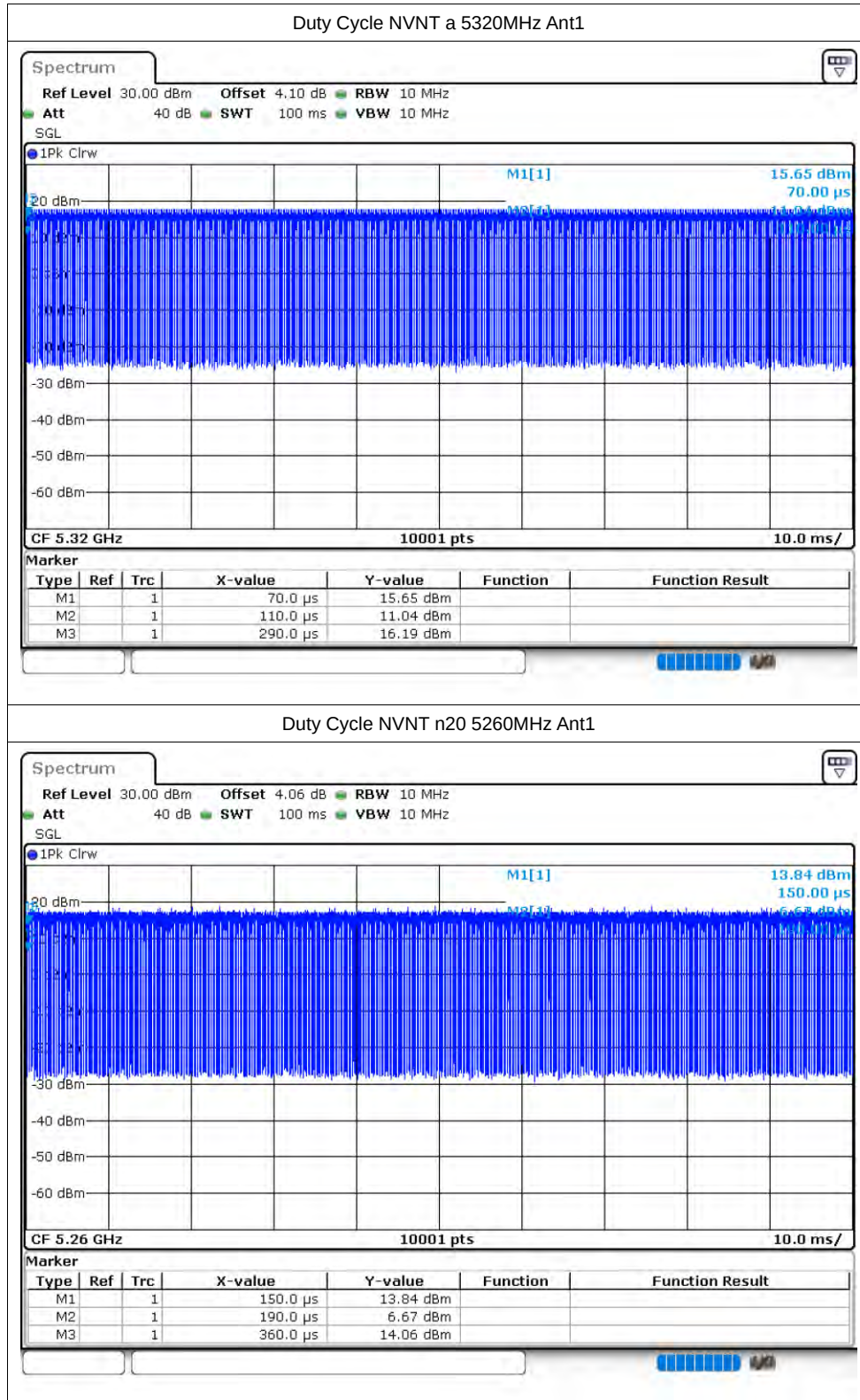
Test Graphs

Duty Cycle NVNT a 5260MHz Ant1

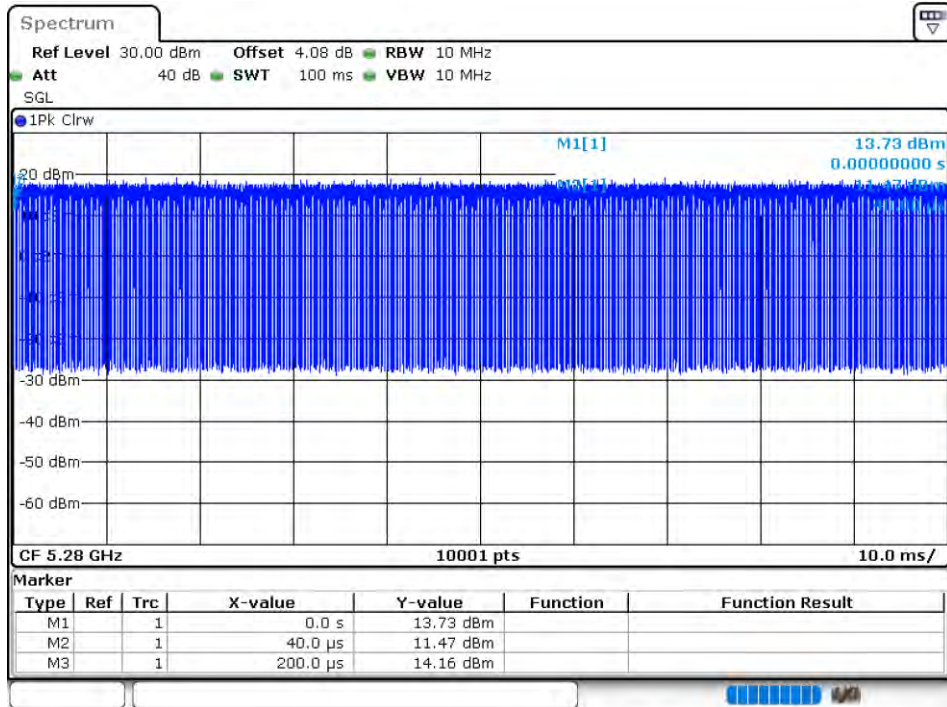


Duty Cycle NVNT a 5280MHz Ant1

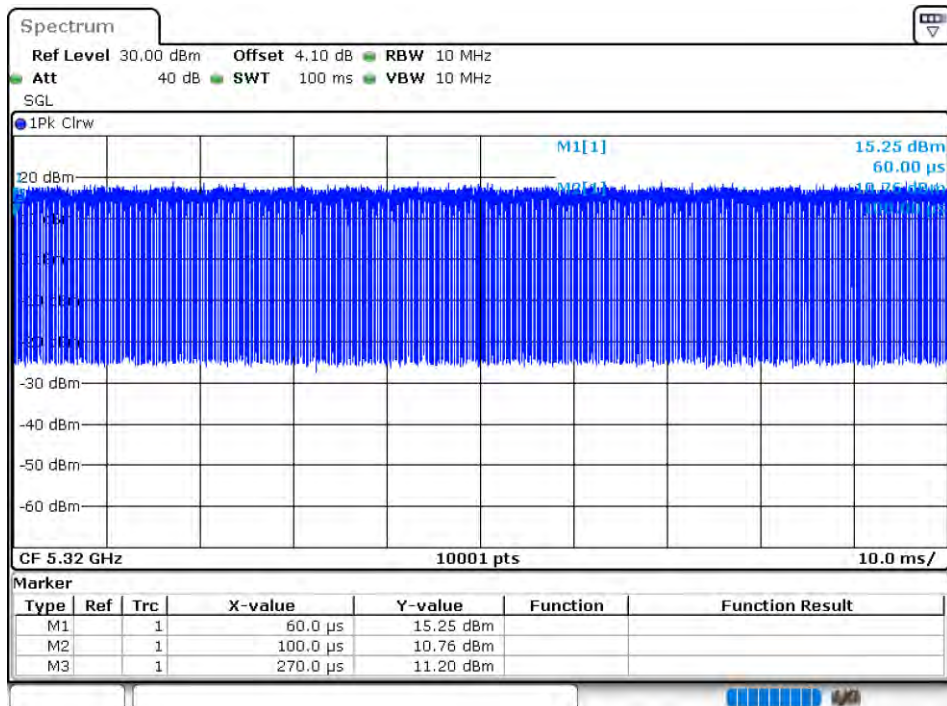


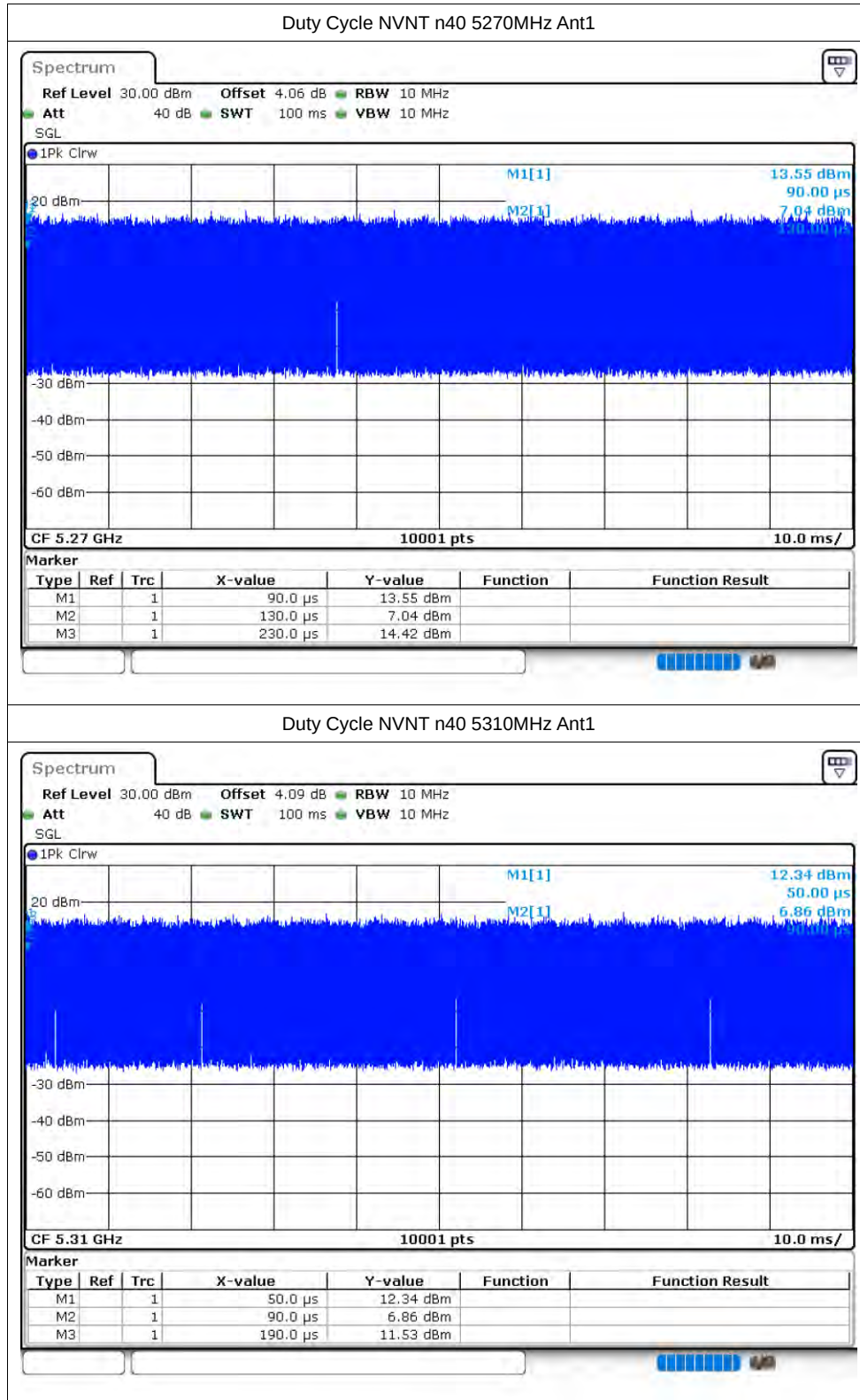


Duty Cycle NVNT n20 5280MHz Ant1

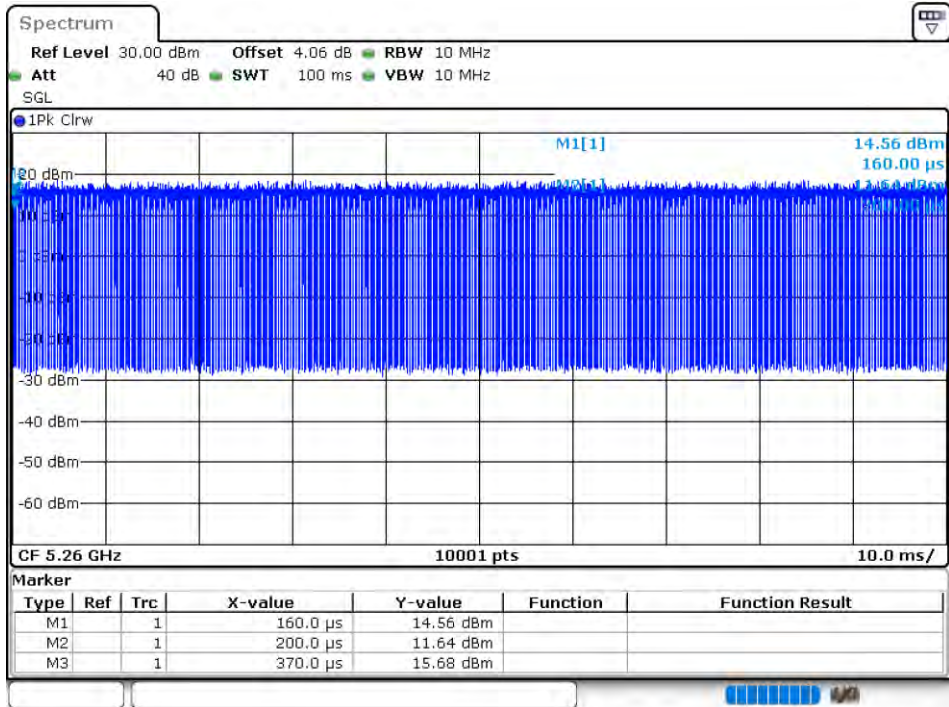


Duty Cycle NVNT n20 5320MHz Ant1

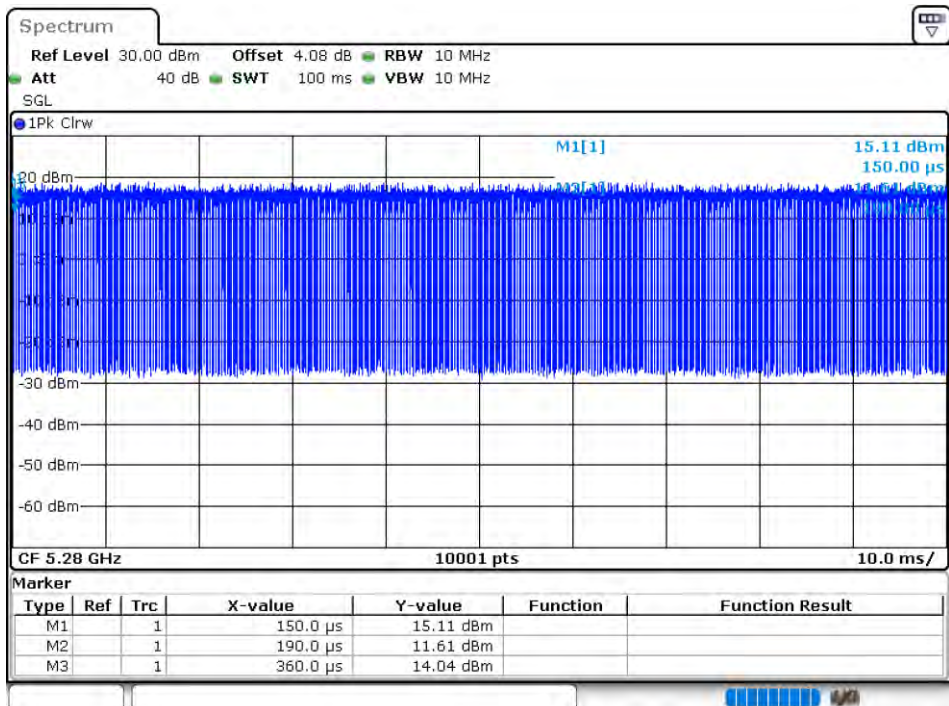




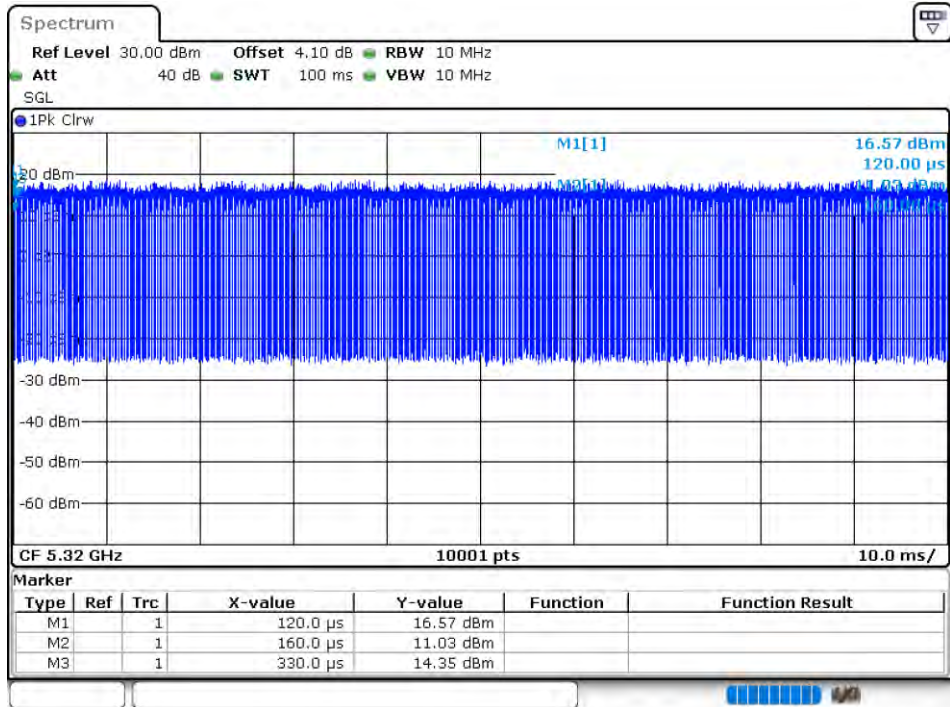
Duty Cycle NVNT ac20 5260MHz Ant1



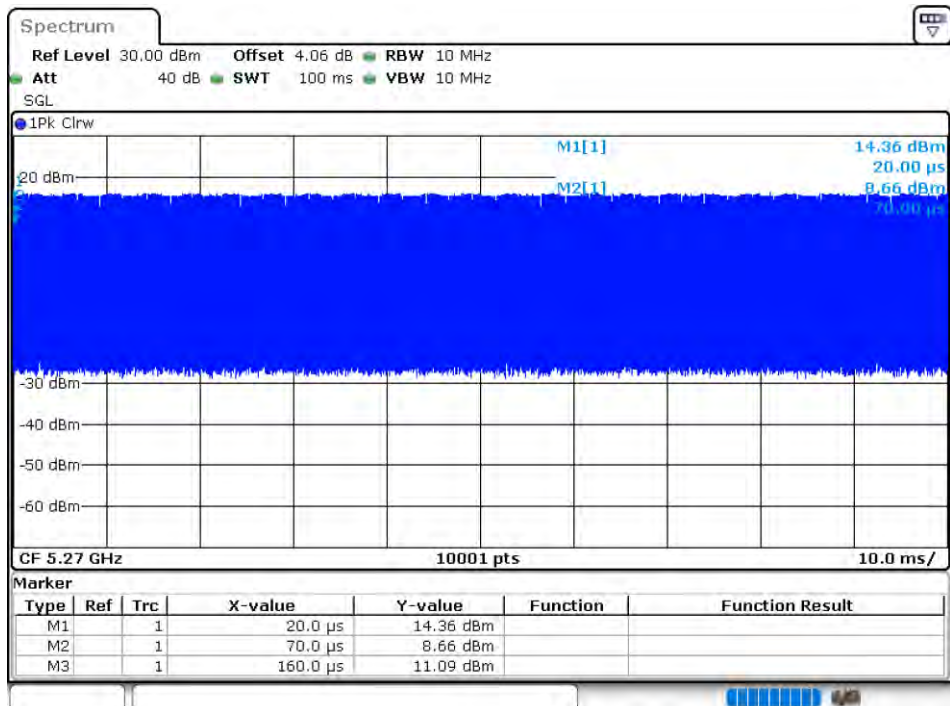
Duty Cycle NVNT ac20 5280MHz Ant1

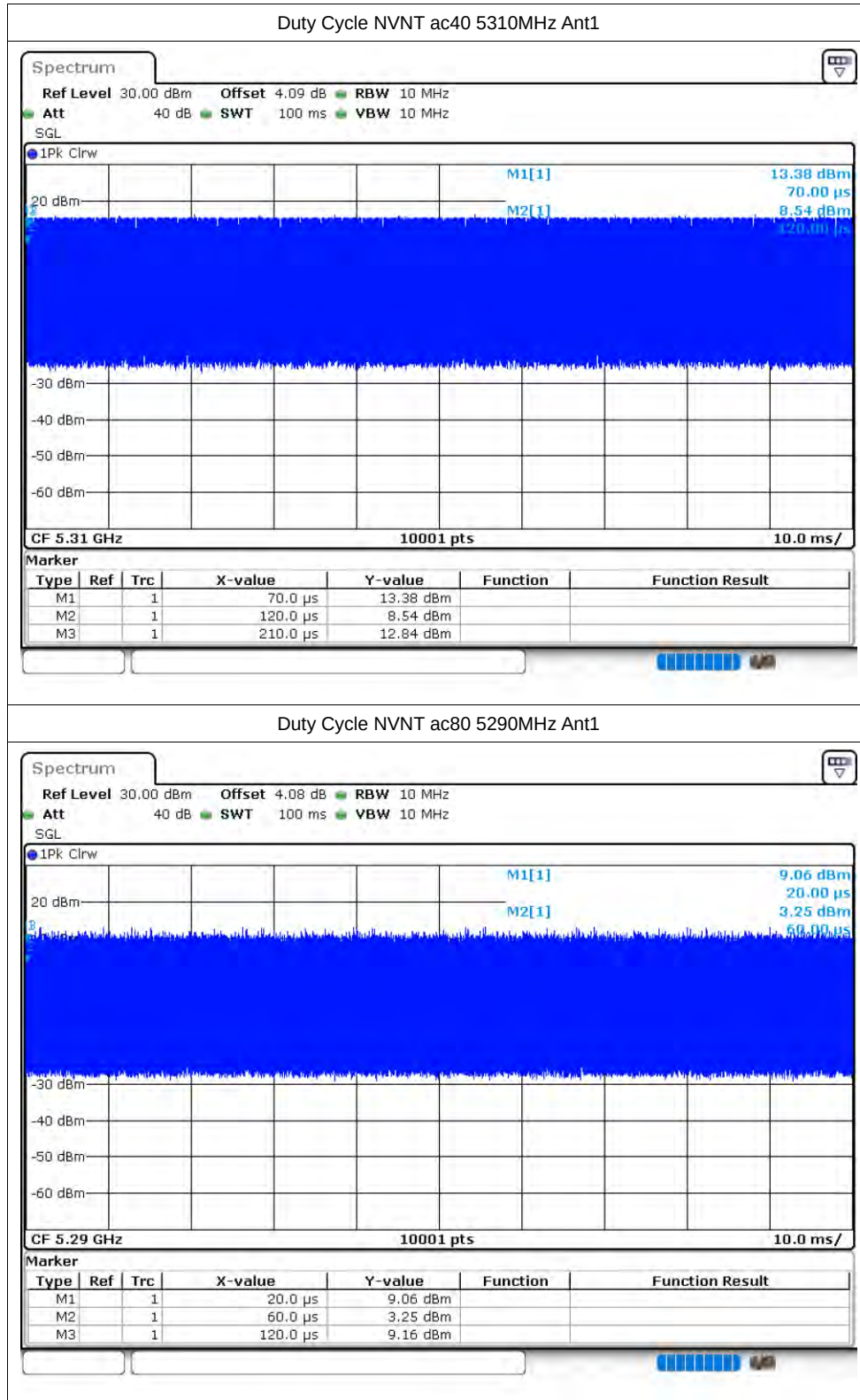


Duty Cycle NVNT ac20 5320MHz Ant1



Duty Cycle NVNT ac40 5270MHz Ant1





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	11.67	24	Pass
NVNT	a	5280	Ant1	11.77	24	Pass
NVNT	a	5320	Ant1	11.8	24	Pass
NVNT	n20	5260	Ant1	11.29	24	Pass
NVNT	n20	5280	Ant1	11.29	24	Pass
NVNT	n20	5320	Ant1	11.5	24	Pass
NVNT	n40	5270	Ant1	11.59	24	Pass
NVNT	n40	5310	Ant1	11.38	24	Pass
NVNT	ac20	5260	Ant1	11.4	24	Pass
NVNT	ac20	5280	Ant1	11.68	24	Pass
NVNT	ac20	5320	Ant1	11.52	24	Pass
NVNT	ac40	5270	Ant1	11.47	24	Pass
NVNT	ac40	5310	Ant1	11.42	24	Pass
NVNT	ac80	5290	Ant1	11.02	24	Pass

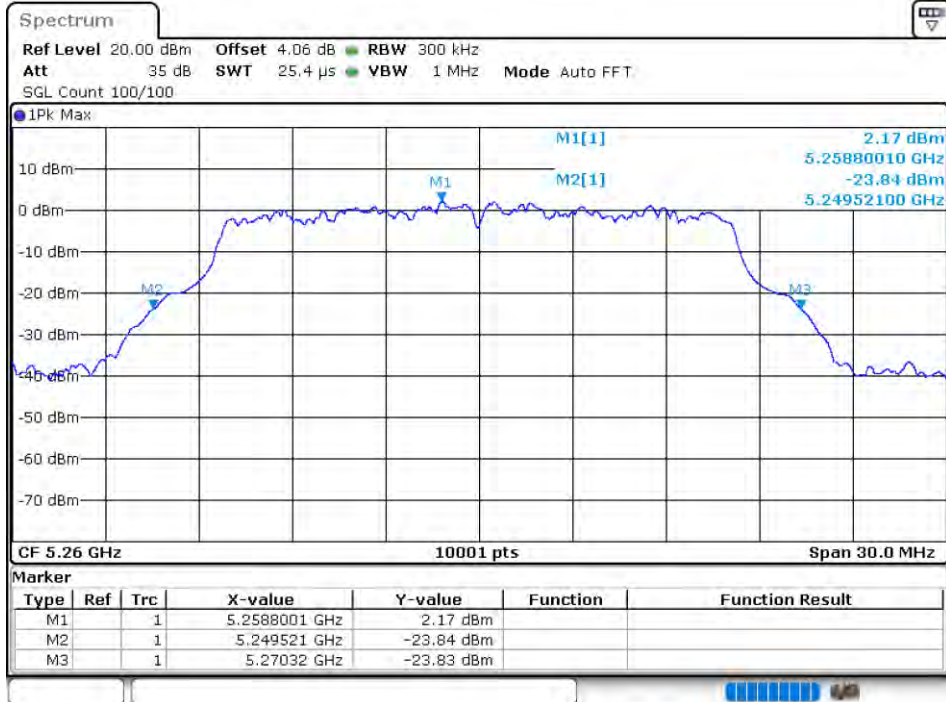
Note: The average power contains duty cycle

-26dB Bandwidth

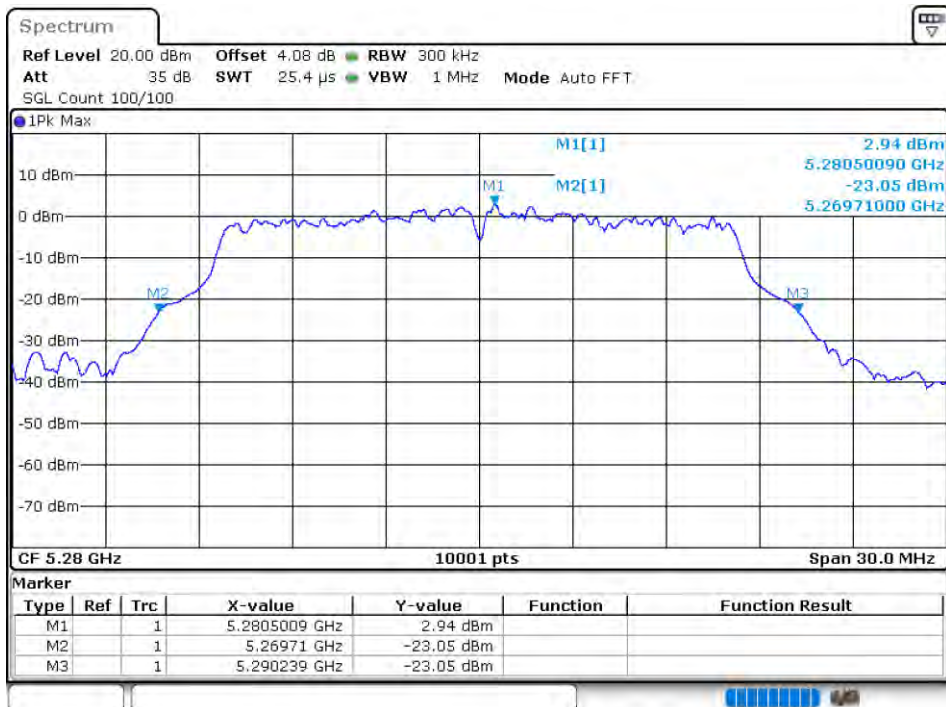
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	20.799	Pass
NVNT	a	5280	Ant1	20.529	Pass
NVNT	a	5320	Ant1	20.709	Pass
NVNT	n20	5260	Ant1	20.889	Pass
NVNT	n20	5280	Ant1	21.045	Pass
NVNT	n20	5320	Ant1	20.91	Pass
NVNT	n40	5270	Ant1	39.402	Pass
NVNT	n40	5310	Ant1	39.438	Pass
NVNT	ac20	5260	Ant1	21.171	Pass
NVNT	ac20	5280	Ant1	21.006	Pass
NVNT	ac20	5320	Ant1	21.312	Pass
NVNT	ac40	5270	Ant1	40.386	Pass
NVNT	ac40	5310	Ant1	40.434	Pass
NVNT	ac80	5290	Ant1	81.036	Pass

Test Graphs

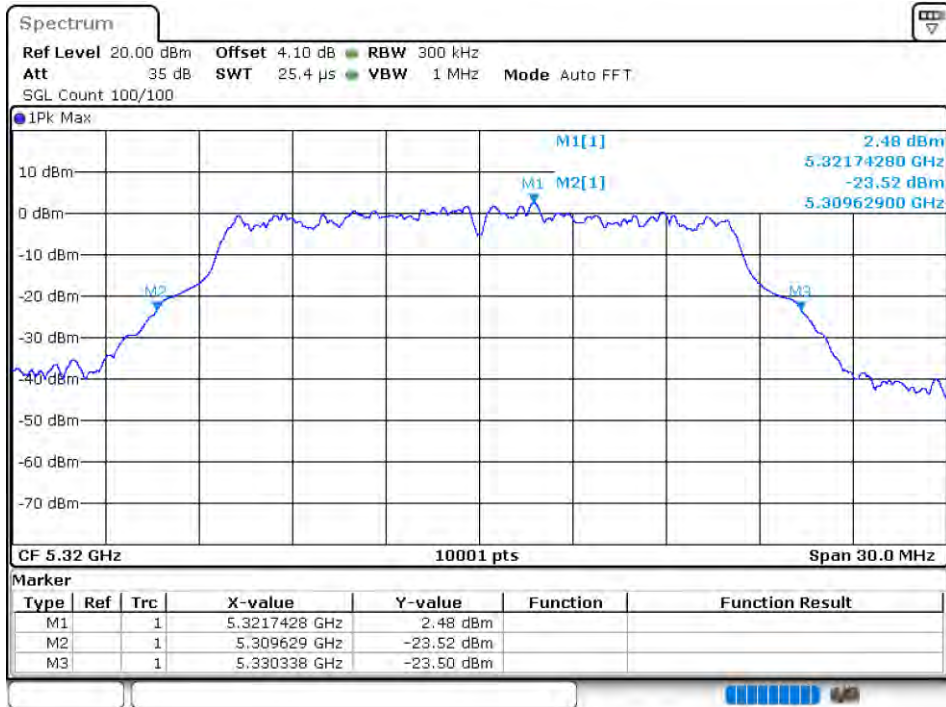
-26dB Bandwidth NVNT a 5260MHz Ant1



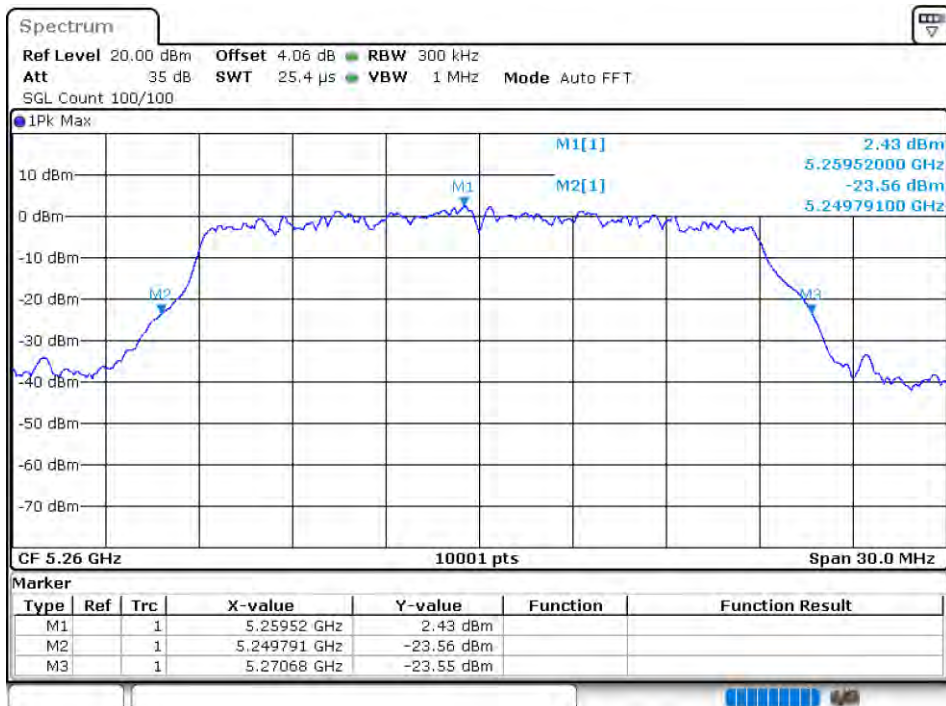
-26dB Bandwidth NVNT a 5280MHz Ant1

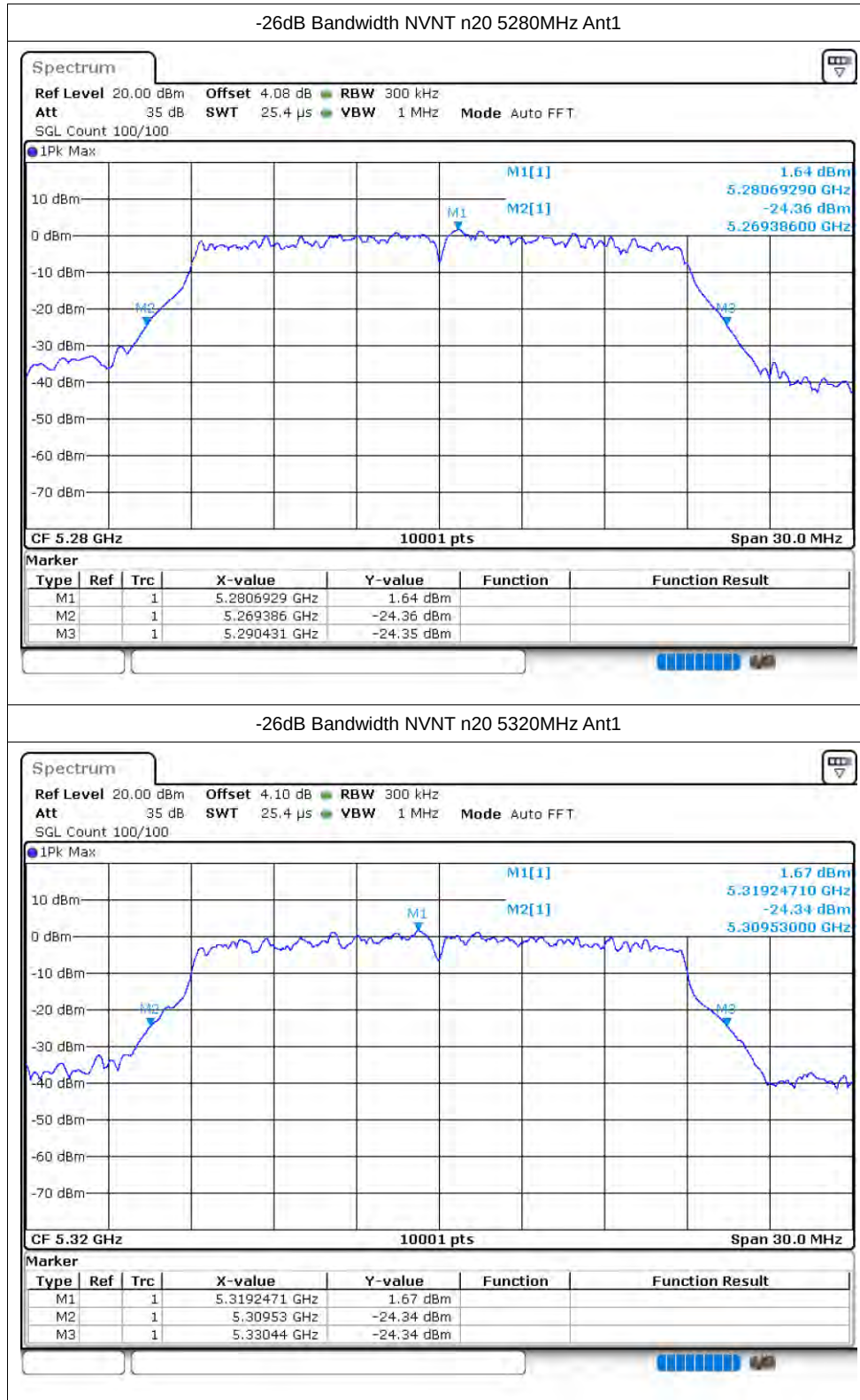


-26dB Bandwidth NVNT a 5320MHz Ant1



-26dB Bandwidth NVNT n20 5260MHz Ant1



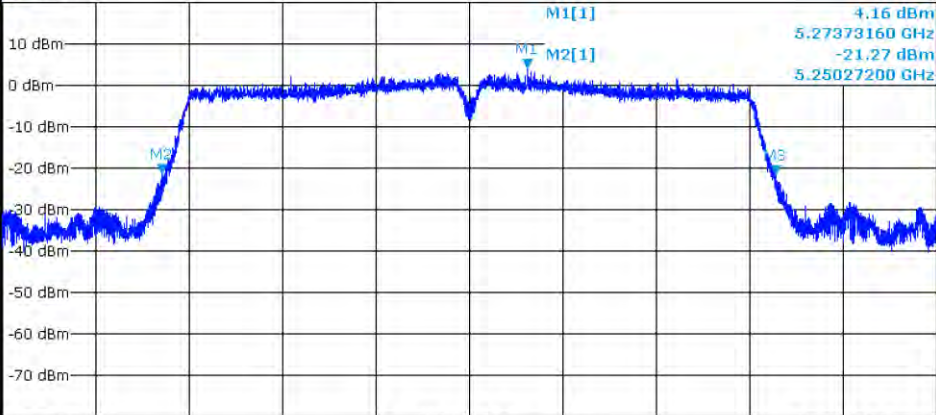


-26dB Bandwidth NVNT n40 5270MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.06 dB RBW 500 kHz
Att 35 dB SWT 10.1 ms VBW 2 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Marker

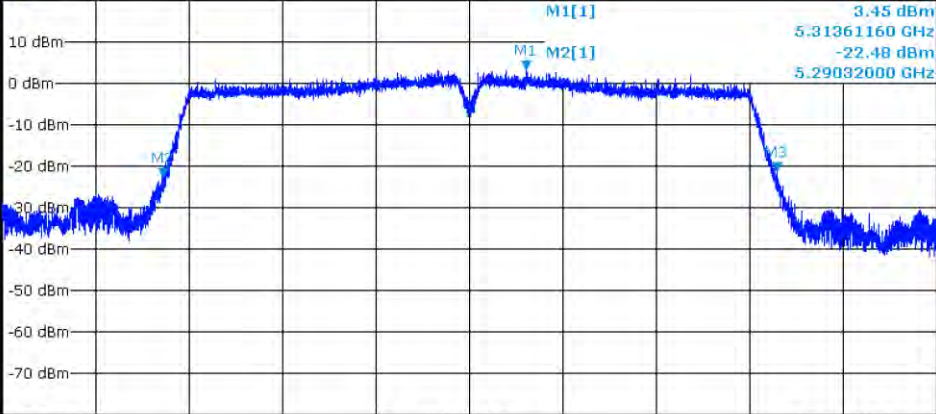
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	5.2737316 GHz	4.16 dBm		
M2	1	1	5.250272 GHz	-21.27 dBm		
M3	1	1	5.289674 GHz	-21.48 dBm		

-26dB Bandwidth NVNT n40 5310MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.09 dB RBW 500 kHz
Att 35 dB SWT 10.1 ms VBW 2 MHz Mode Auto Sweep
SGL Count 100/100

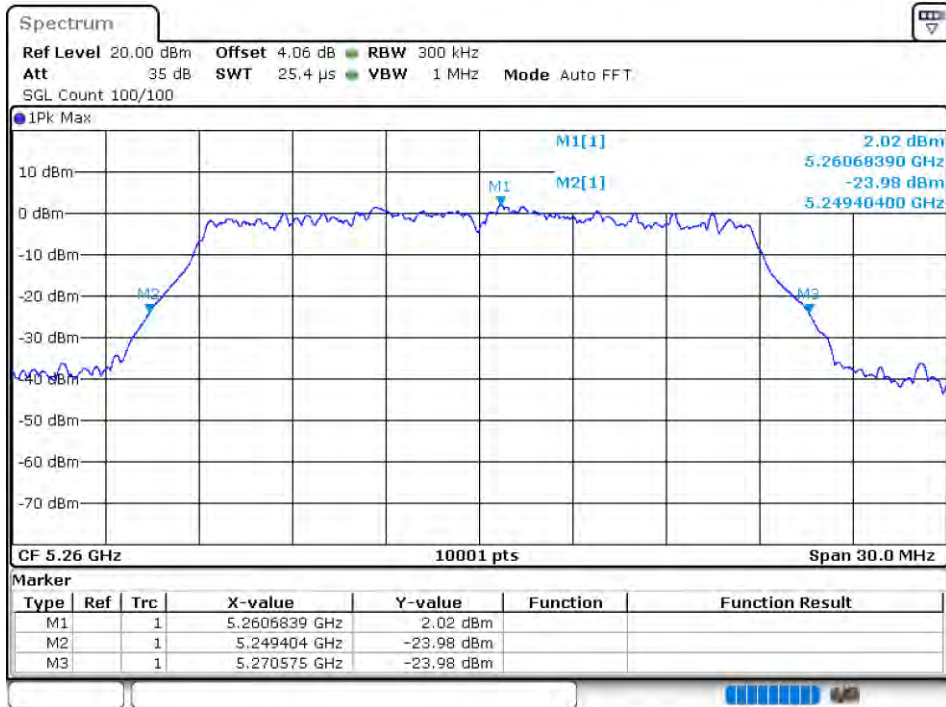
1Pk Max



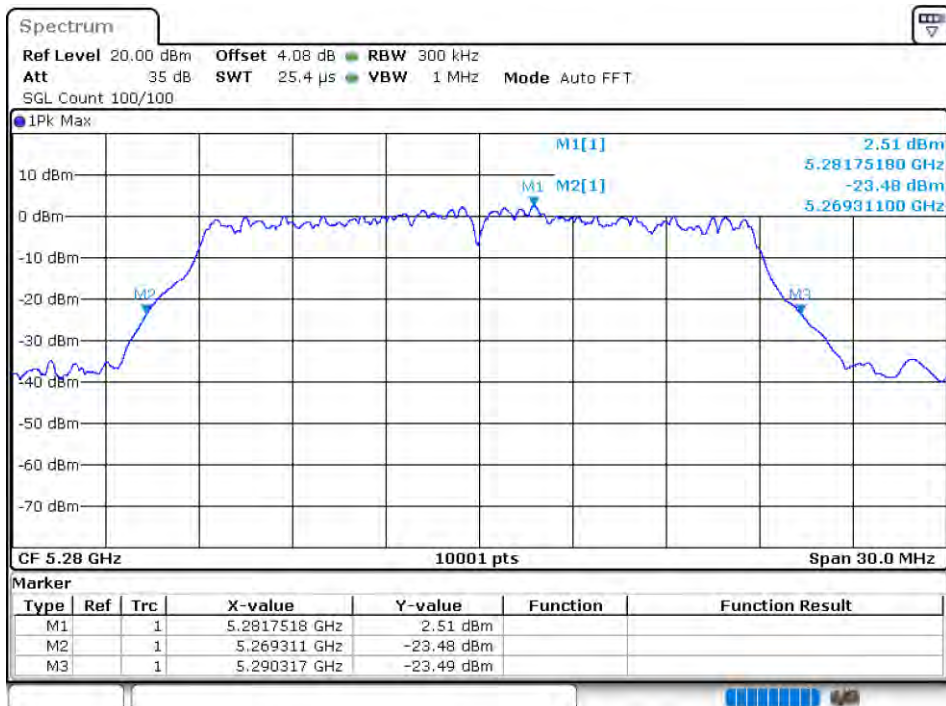
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	5.3136116 GHz	3.45 dBm		
M2	1	1	5.29032 GHz	-22.48 dBm		
M3	1	1	5.329758 GHz	-21.14 dBm		

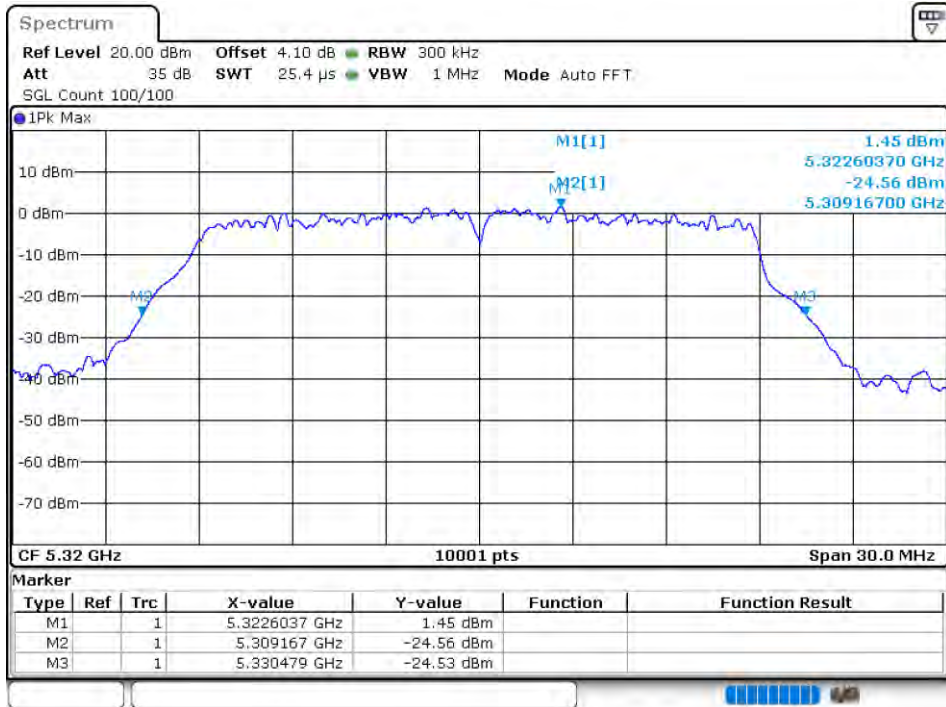
-26dB Bandwidth NVNT ac20 5260MHz Ant1



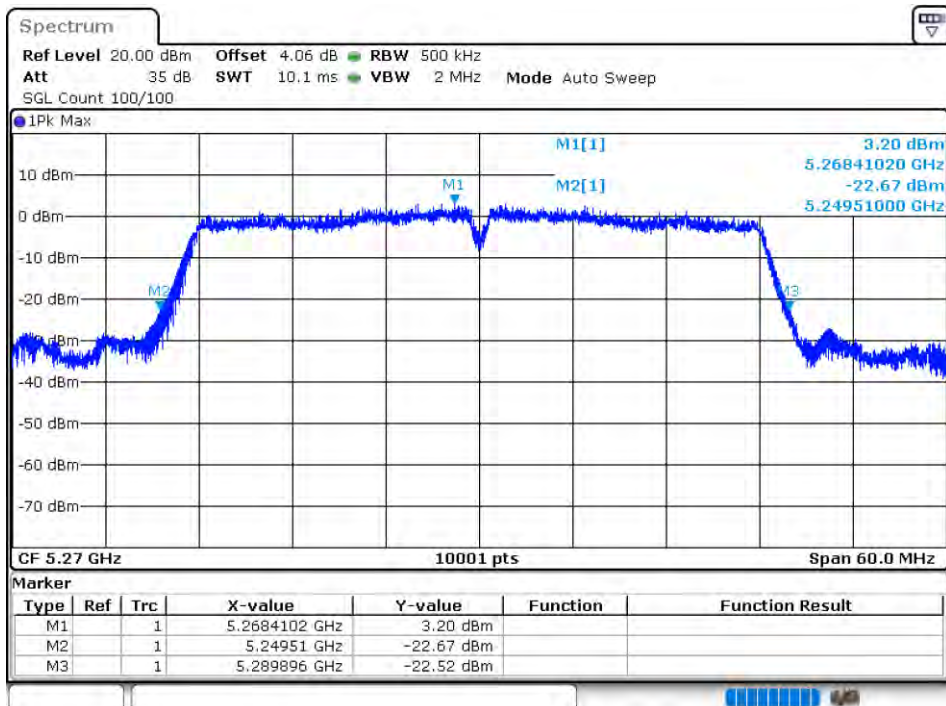
-26dB Bandwidth NVNT ac20 5280MHz Ant1



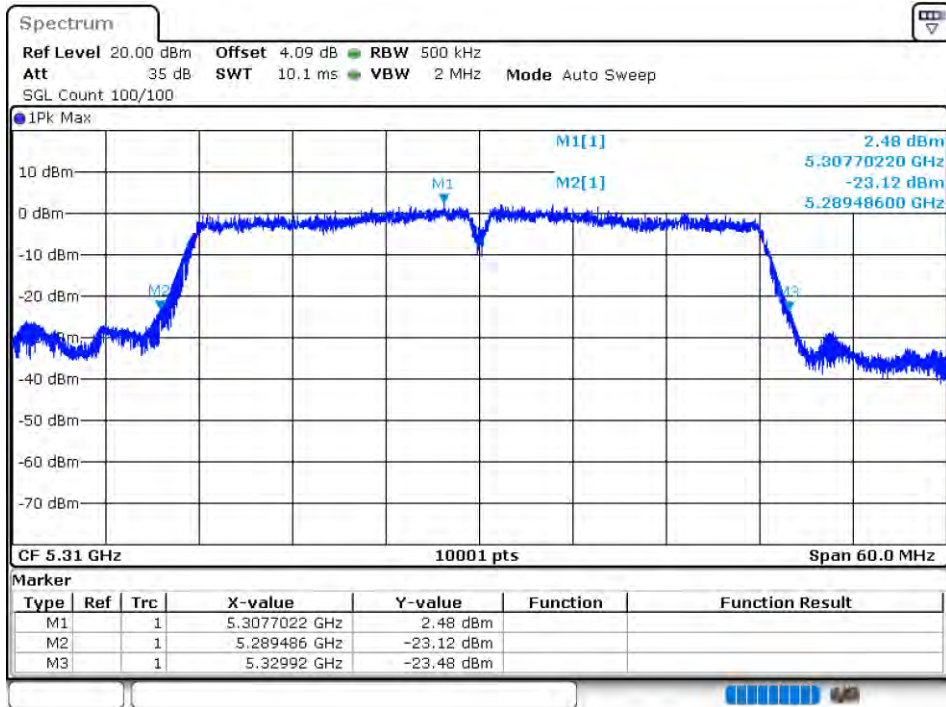
-26dB Bandwidth NVNT ac20 5320MHz Ant1



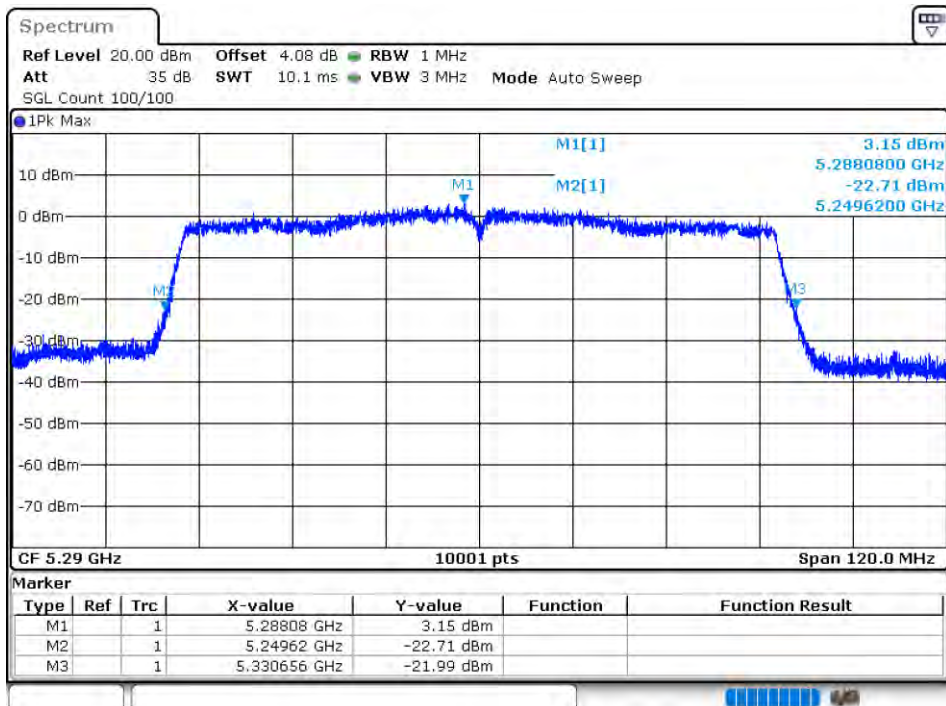
-26dB Bandwidth NVNT ac40 5270MHz Ant1



-26dB Bandwidth NVNT ac40 5310MHz Ant1



-26dB Bandwidth NVNT ac80 5290MHz Ant1

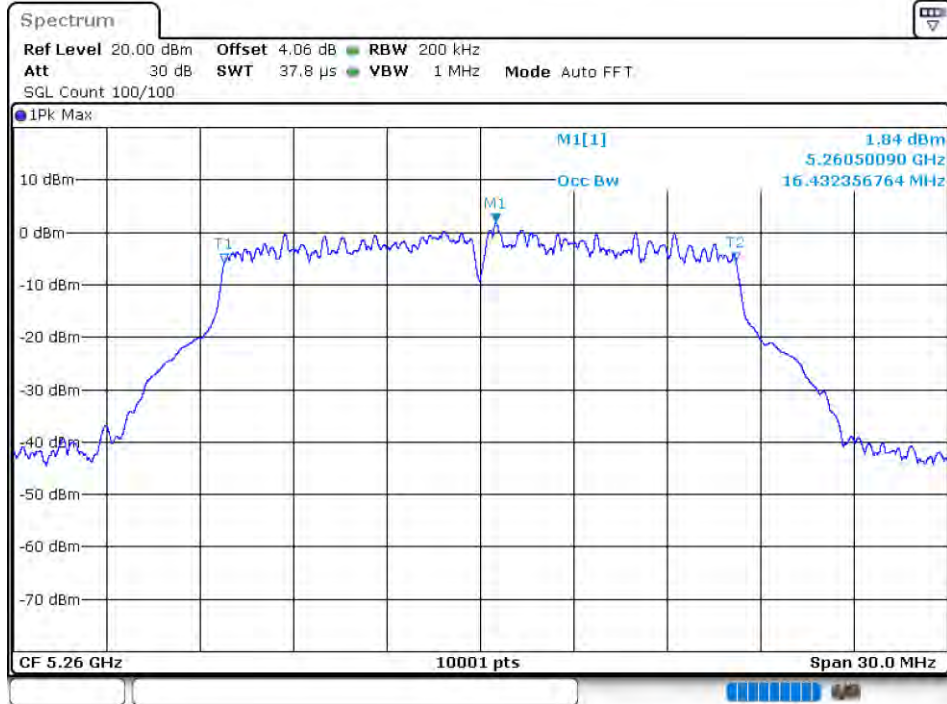


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.432
NVNT	a	5280	Ant1	16.375
NVNT	a	5320	Ant1	16.402
NVNT	n20	5260	Ant1	17.701
NVNT	n20	5280	Ant1	17.695
NVNT	n20	5320	Ant1	17.77
NVNT	n40	5270	Ant1	36.218
NVNT	n40	5310	Ant1	36.194
NVNT	ac20	5260	Ant1	17.764
NVNT	ac20	5280	Ant1	17.722
NVNT	ac20	5320	Ant1	17.656
NVNT	ac40	5270	Ant1	36.548
NVNT	ac40	5310	Ant1	36.548
NVNT	ac80	5290	Ant1	75.556

Test Graphs

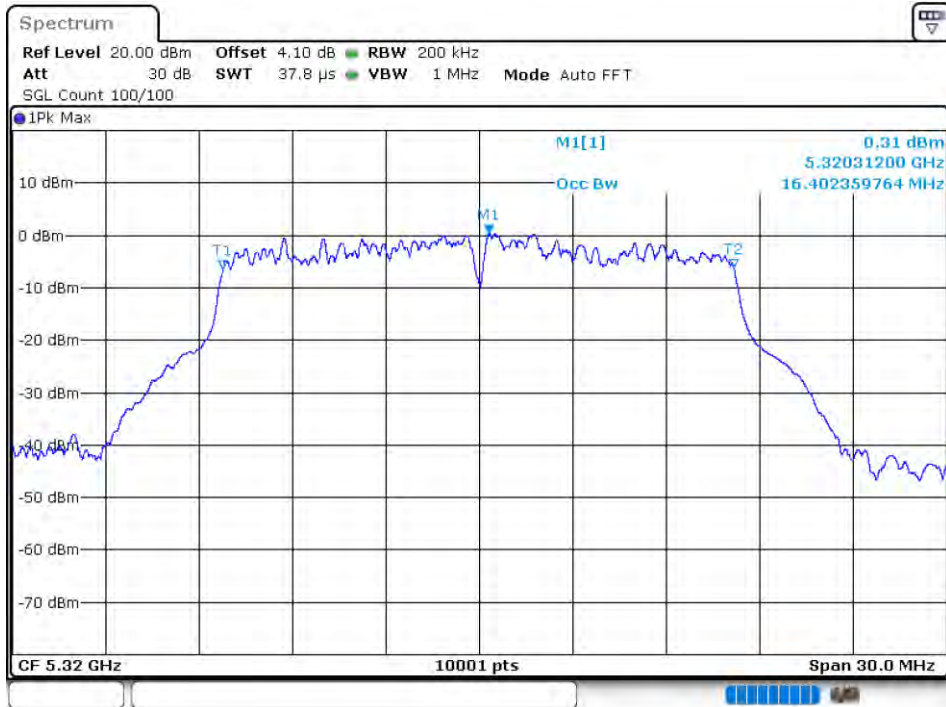
OBW NVNT a 5260MHz Ant1



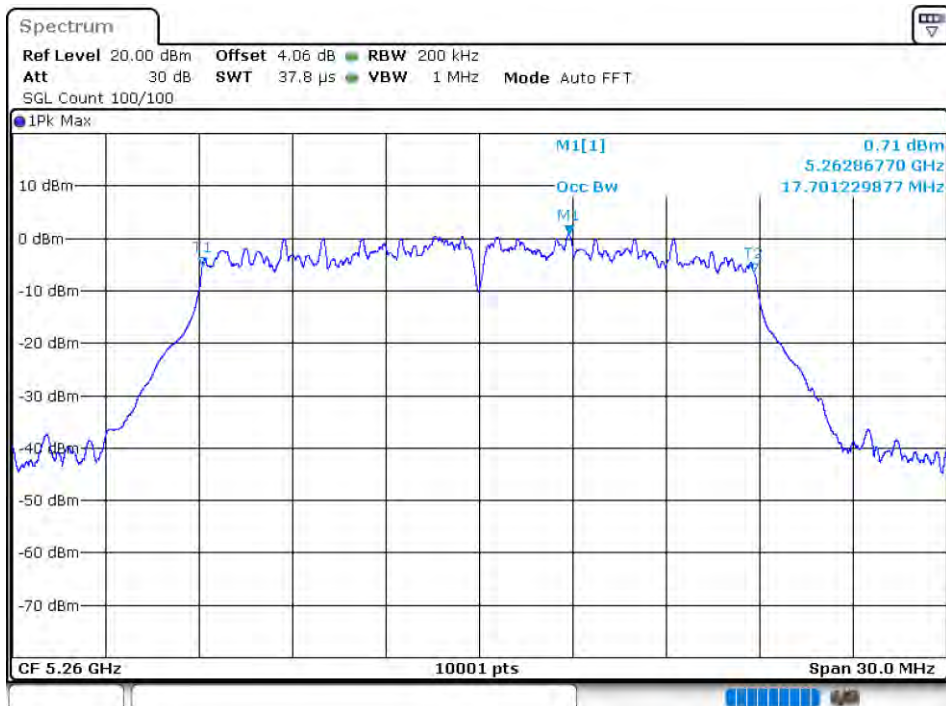
OBW NVNT a 5280MHz Ant1

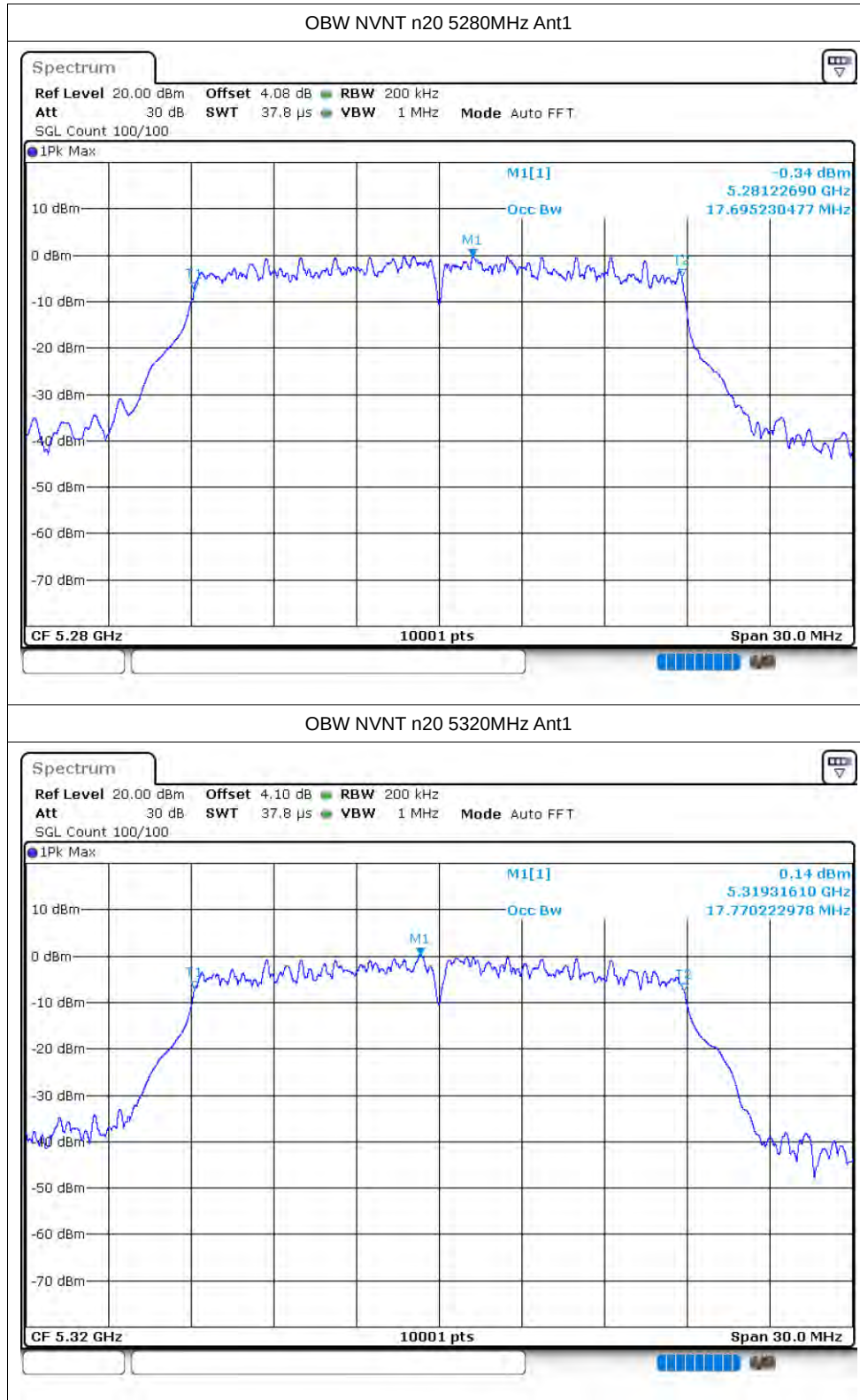


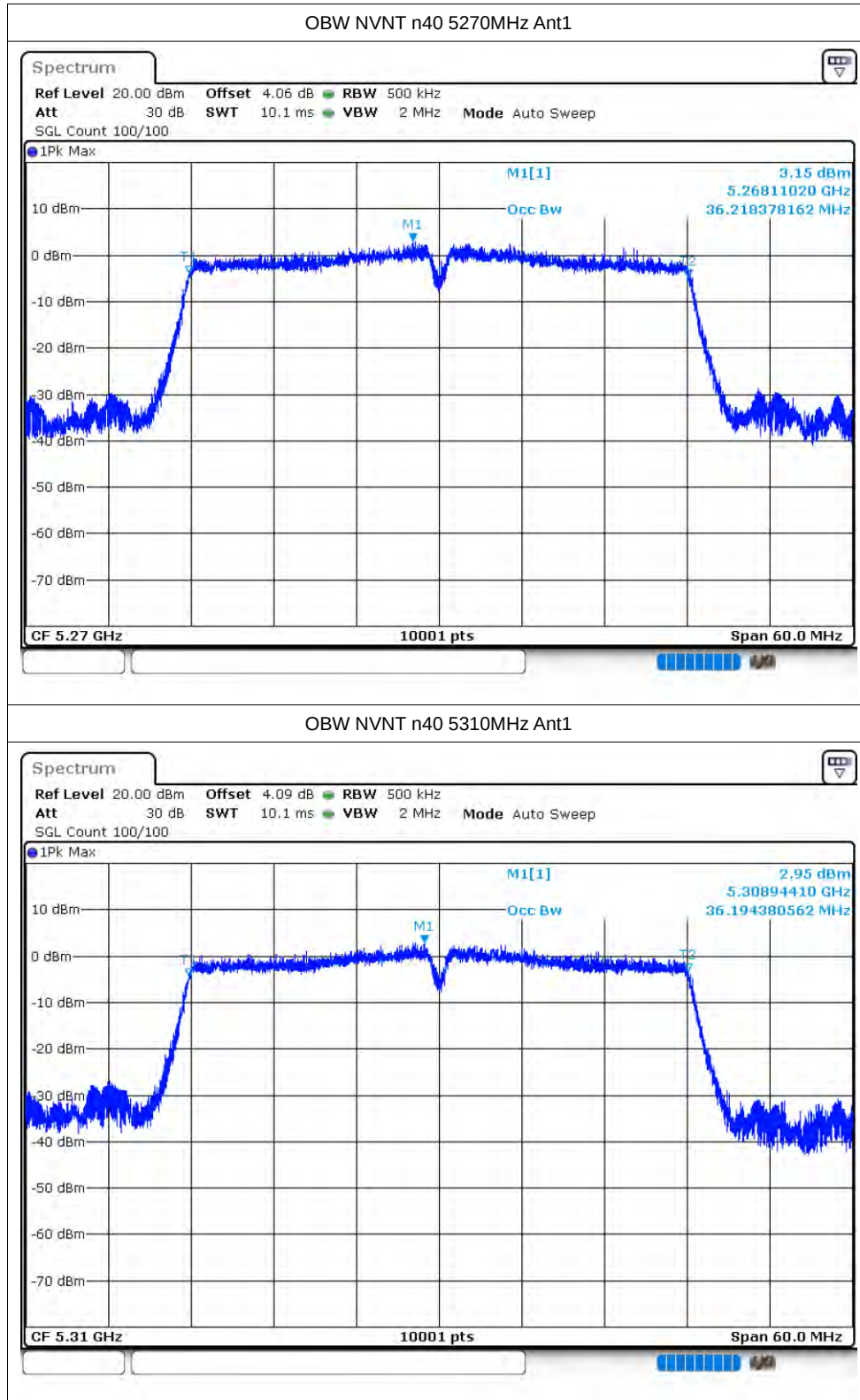
OBW NVNT a 5320MHz Ant1

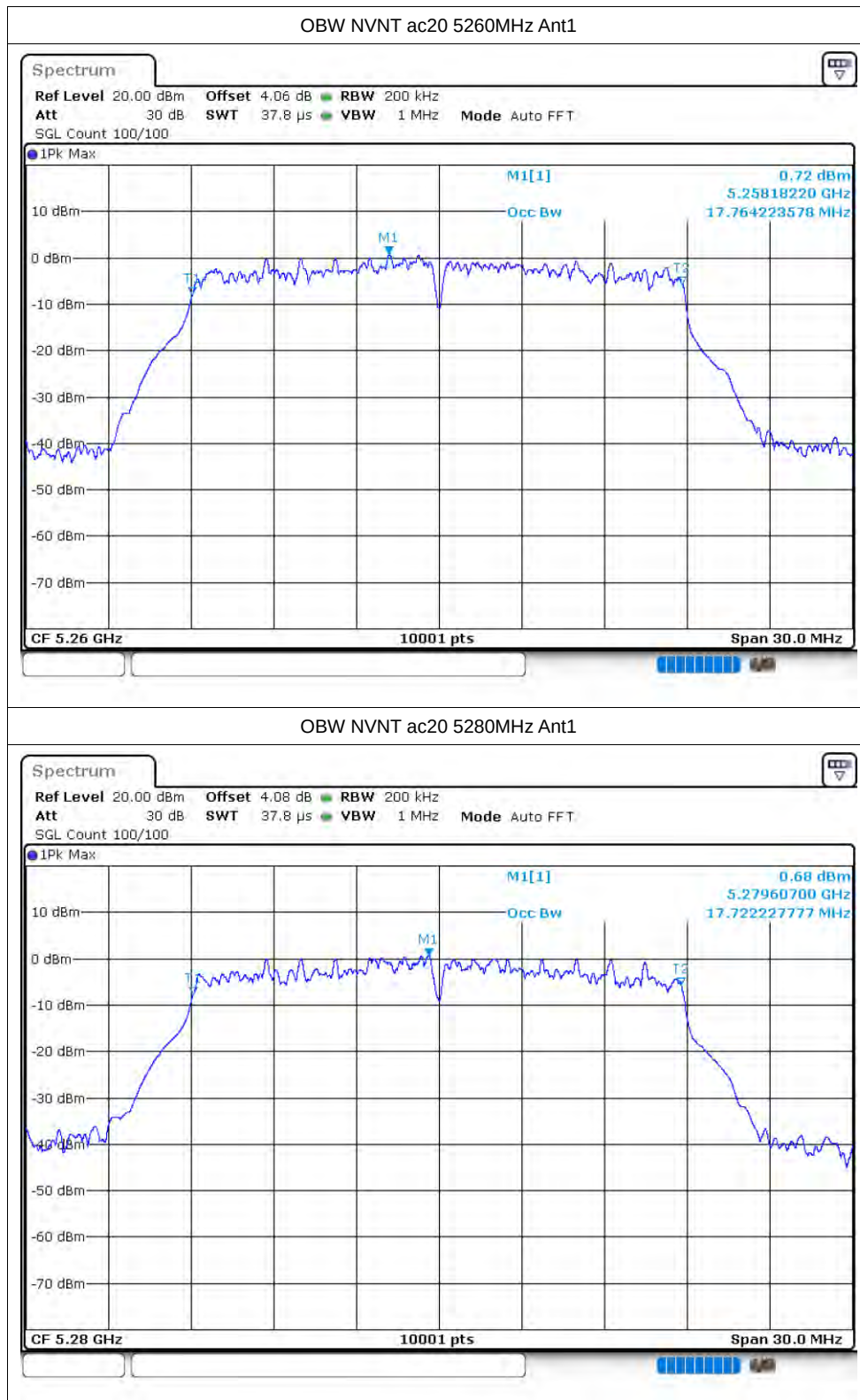


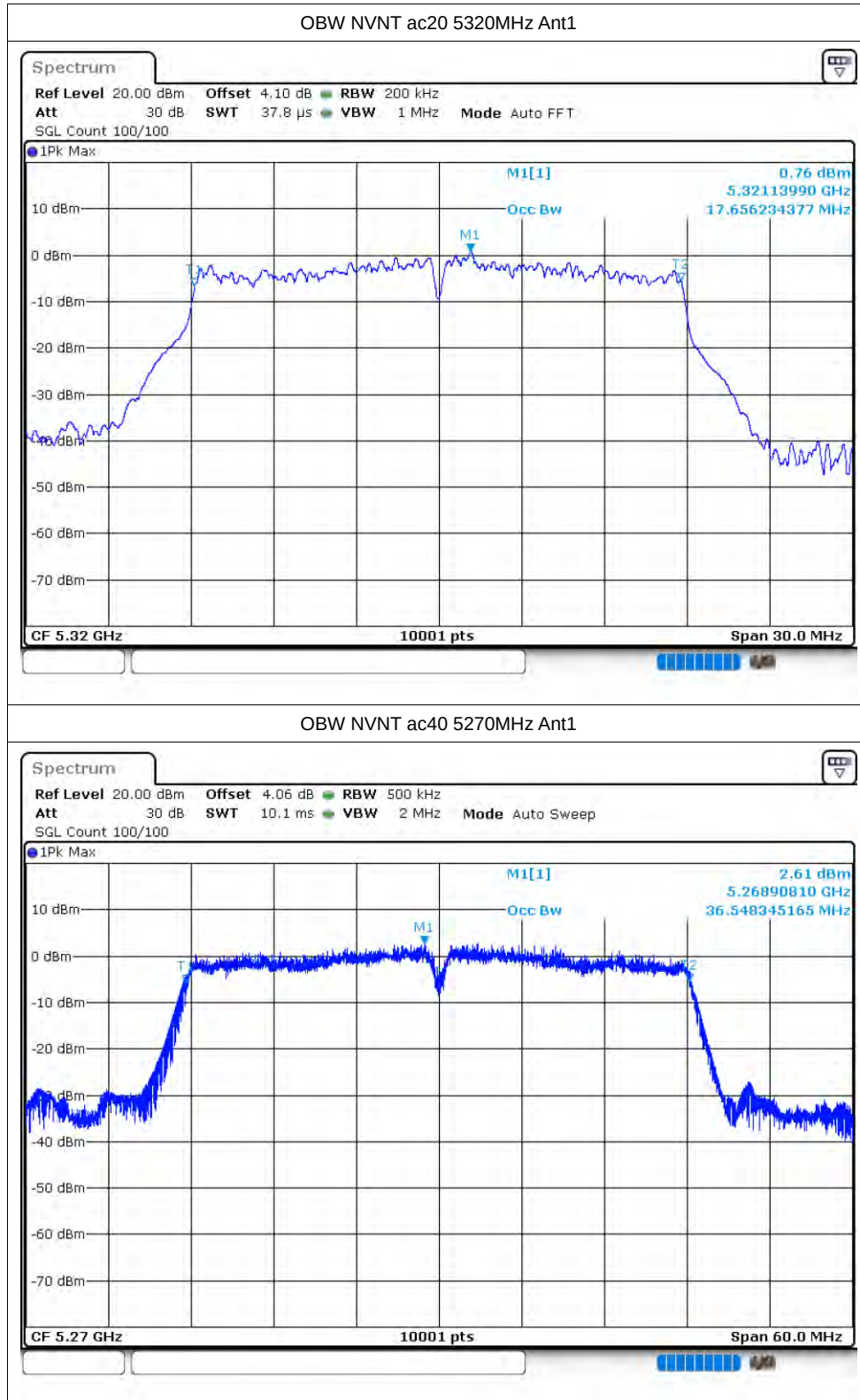
OBW NVNT n20 5260MHz Ant1

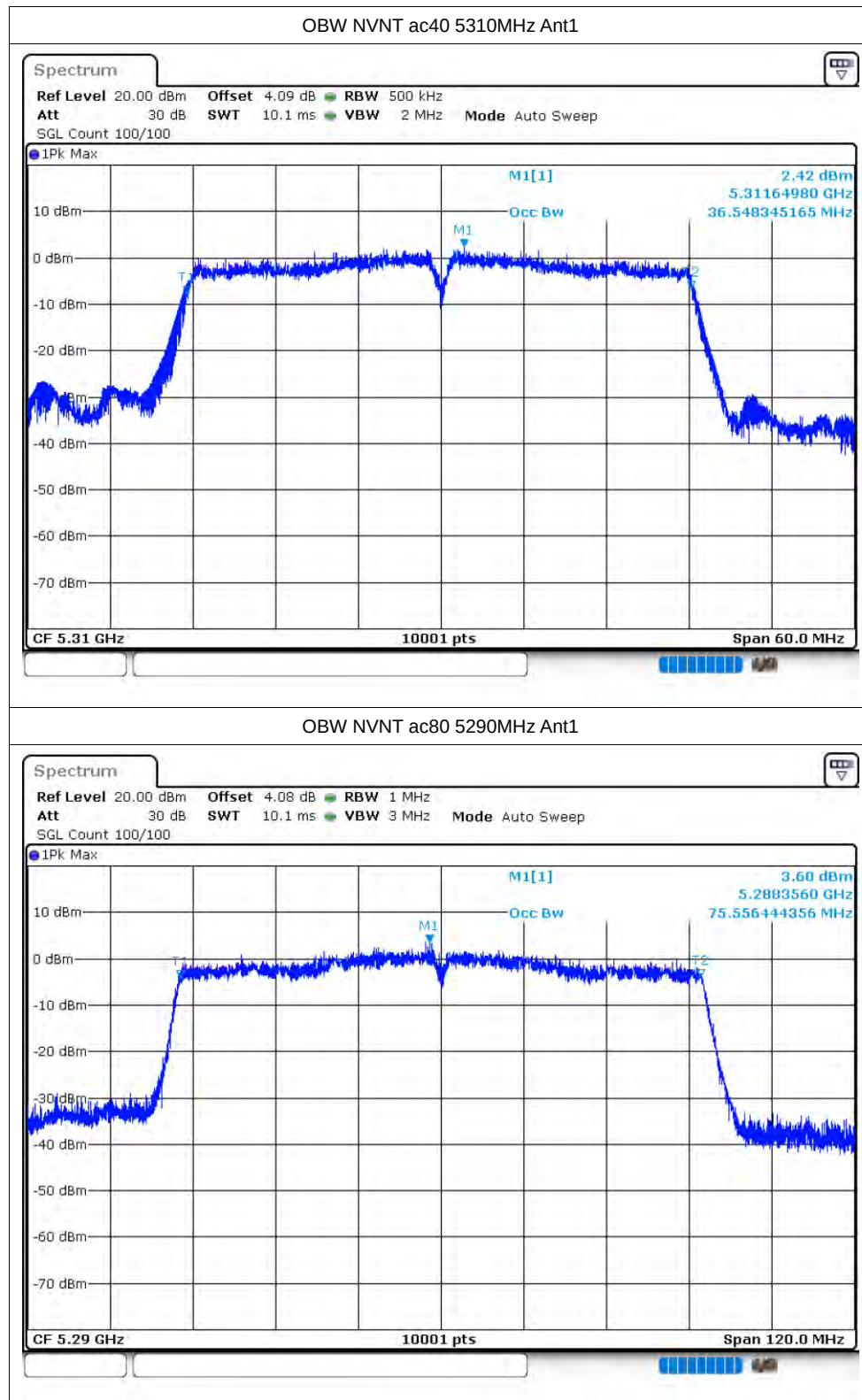












Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	-7.23	0.69	-6.54	11	Pass
NVNT	a	5280	Ant1	-5.13	0.69	-4.44	11	Pass
NVNT	a	5320	Ant1	-6.19	0.69	-5.5	11	Pass
NVNT	n20	5260	Ant1	-8.46	0.73	-7.73	11	Pass
NVNT	n20	5280	Ant1	-7.69	0.73	-6.96	11	Pass
NVNT	n20	5320	Ant1	-8.66	0.73	-7.93	11	Pass
NVNT	n40	5270	Ant1	-15.21	1.1	-14.11	11	Pass
NVNT	n40	5310	Ant1	-11.89	1.1	-10.79	11	Pass
NVNT	ac20	5260	Ant1	-7.54	0.71	-6.83	11	Pass
NVNT	ac20	5280	Ant1	-6.97	0.71	-6.26	11	Pass
NVNT	ac20	5320	Ant1	-7.37	0.71	-6.66	11	Pass
NVNT	ac40	5270	Ant1	-15.76	1.17	-14.59	11	Pass
NVNT	ac40	5310	Ant1	-15.97	1.17	-14.8	11	Pass
NVNT	ac80	5290	Ant1	-20.04	1.56	-18.48	11	Pass