

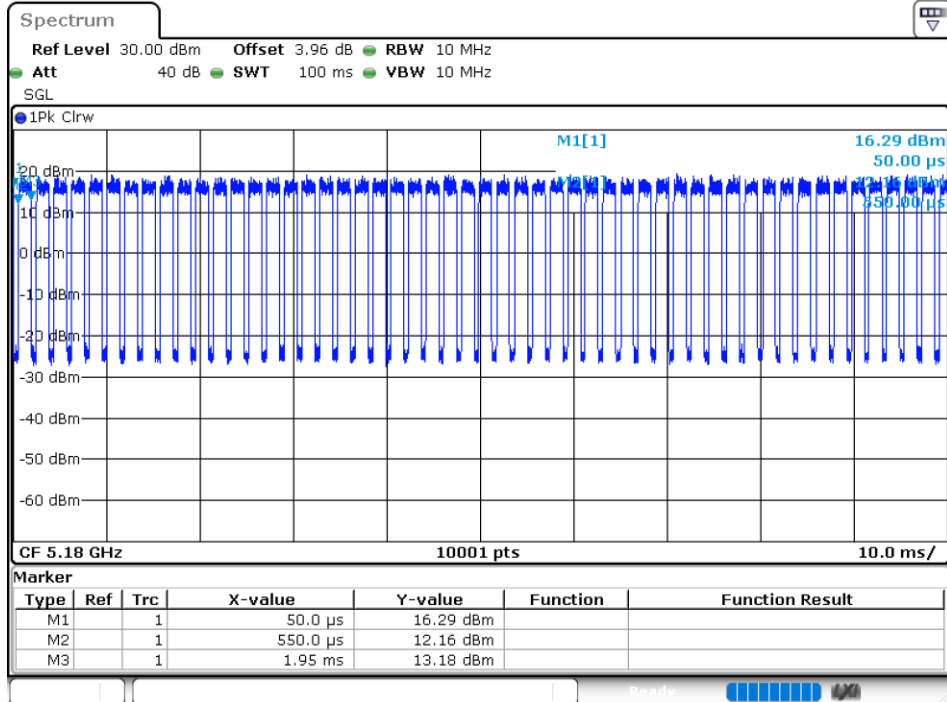
5.2G WIFI:

Duty Cycle

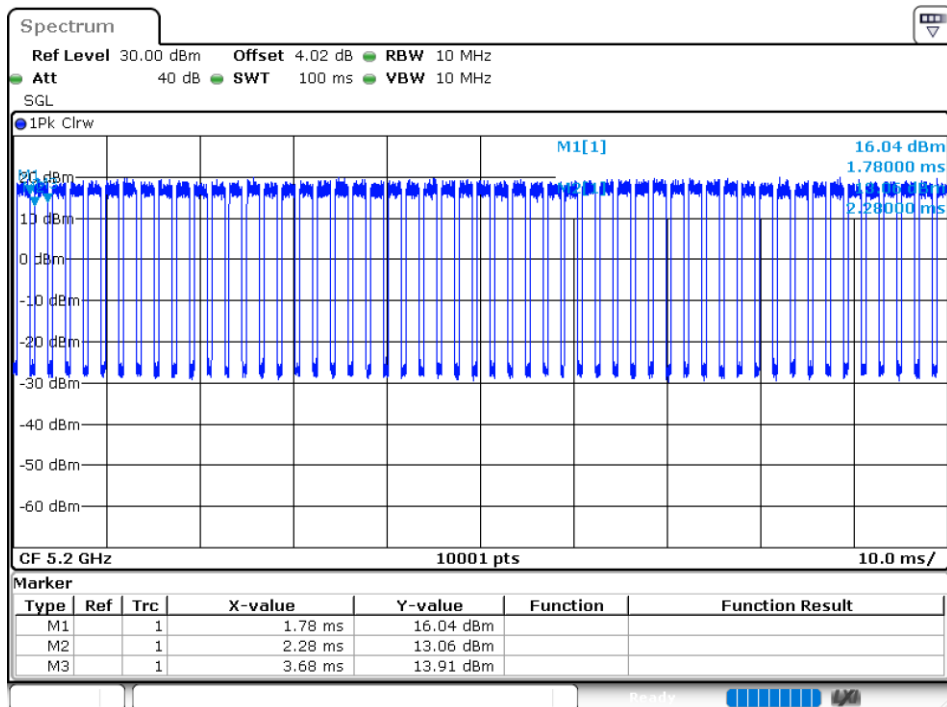
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	73.78	1.32	0.71
NVNT	a	5200	Ant1	74.11	1.3	0.71
NVNT	a	5240	Ant1	73.9	1.31	0.72
NVNT	n20	5180	Ant1	72.44	1.4	0.77
NVNT	n20	5200	Ant1	72.89	1.37	0.77
NVNT	n20	5240	Ant1	72.97	1.37	0.77
NVNT	n40	5190	Ant1	57.23	2.42	1.56
NVNT	n40	5230	Ant1	57.08	2.43	1.56
NVNT	ac20	5180	Ant1	72.89	1.37	0.76
NVNT	ac20	5200	Ant1	72.64	1.39	0.76
NVNT	ac20	5240	Ant1	72.93	1.37	0.76
NVNT	ac40	5190	Ant1	57.51	2.4	1.54
NVNT	ac40	5230	Ant1	57.59	2.4	1.54
NVNT	ac80	5210	Ant1	40.65	3.91	3.12

Test Graphs

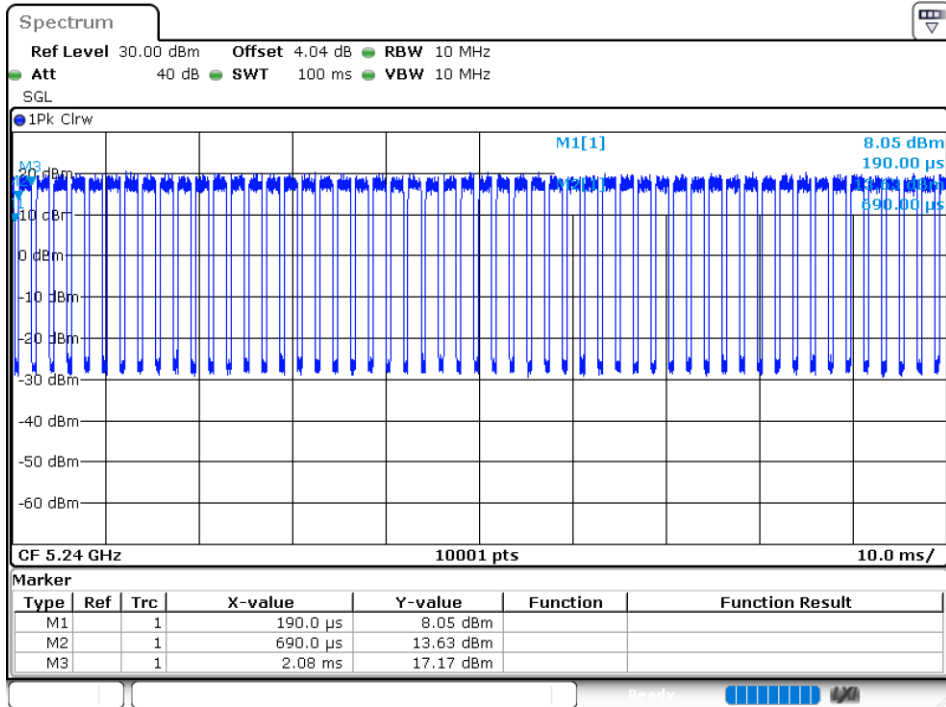
Duty Cycle NVNT a 5180MHz Ant1



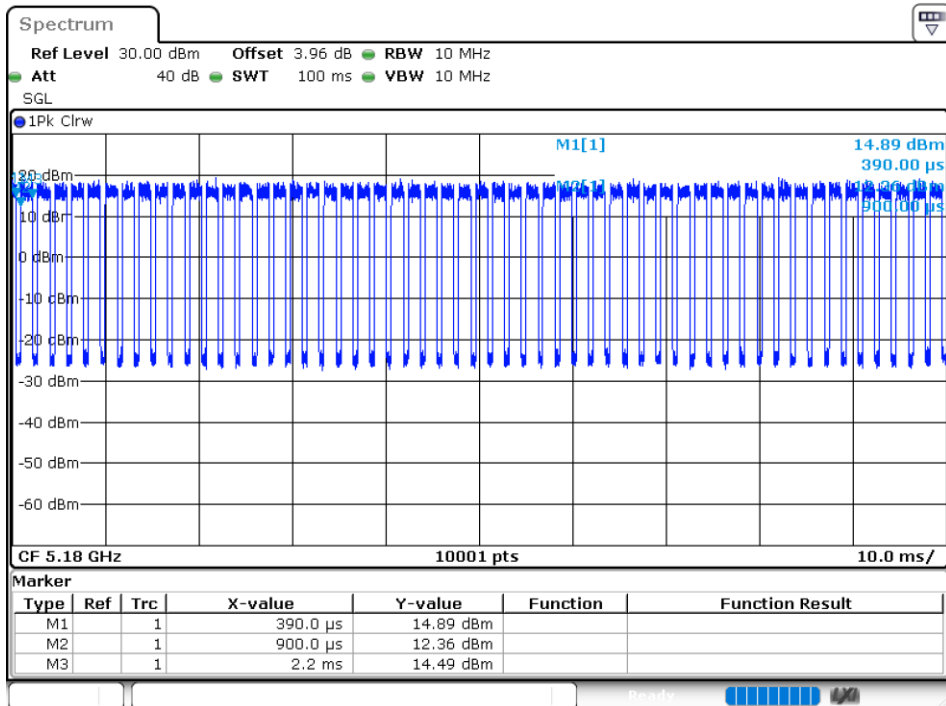
Duty Cycle NVNT a 5200MHz Ant1



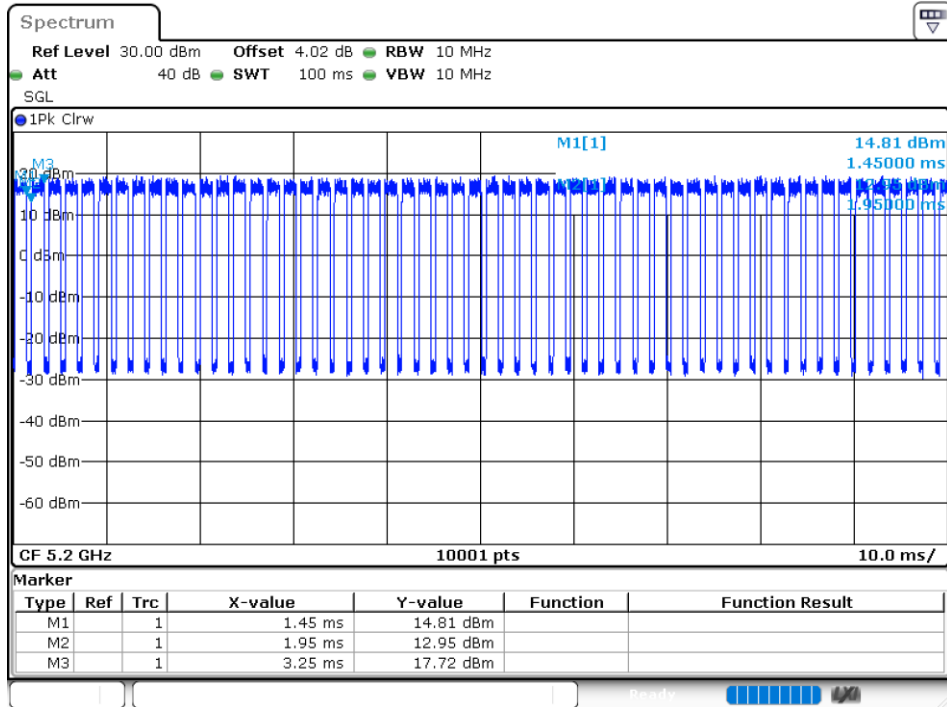
Duty Cycle NVNT a 5240MHz Ant1



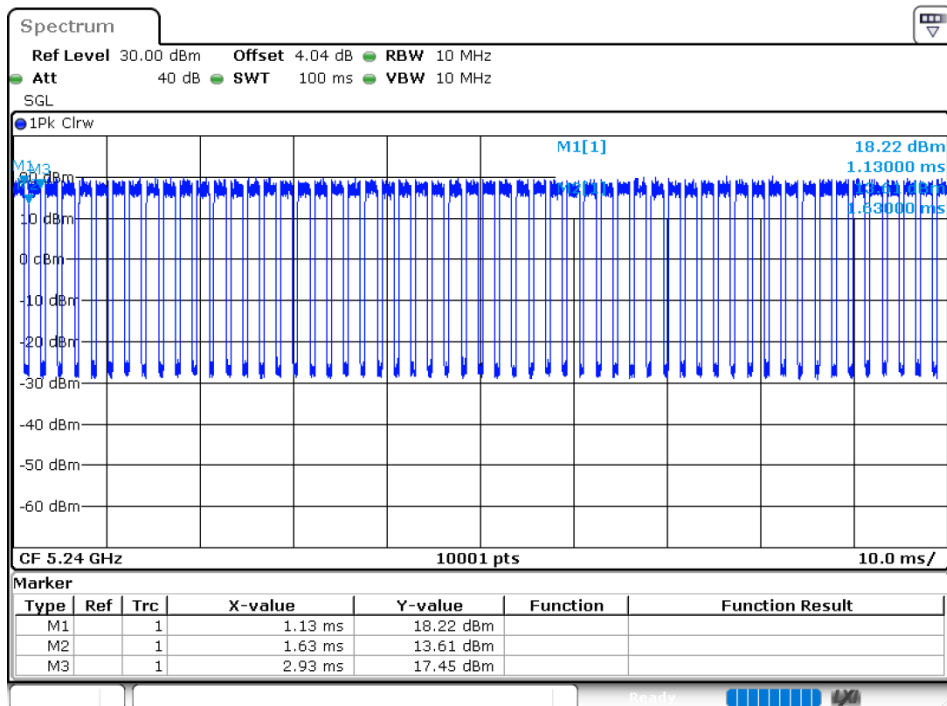
Duty Cycle NVNT n20 5180MHz Ant1



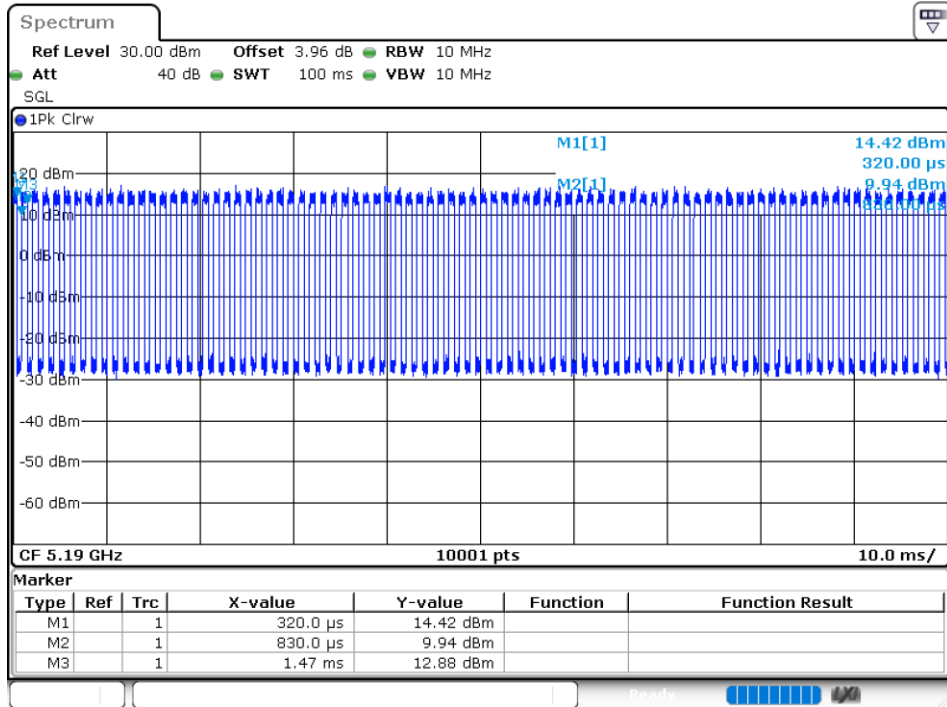
Duty Cycle NVNT n20 5200MHz Ant1



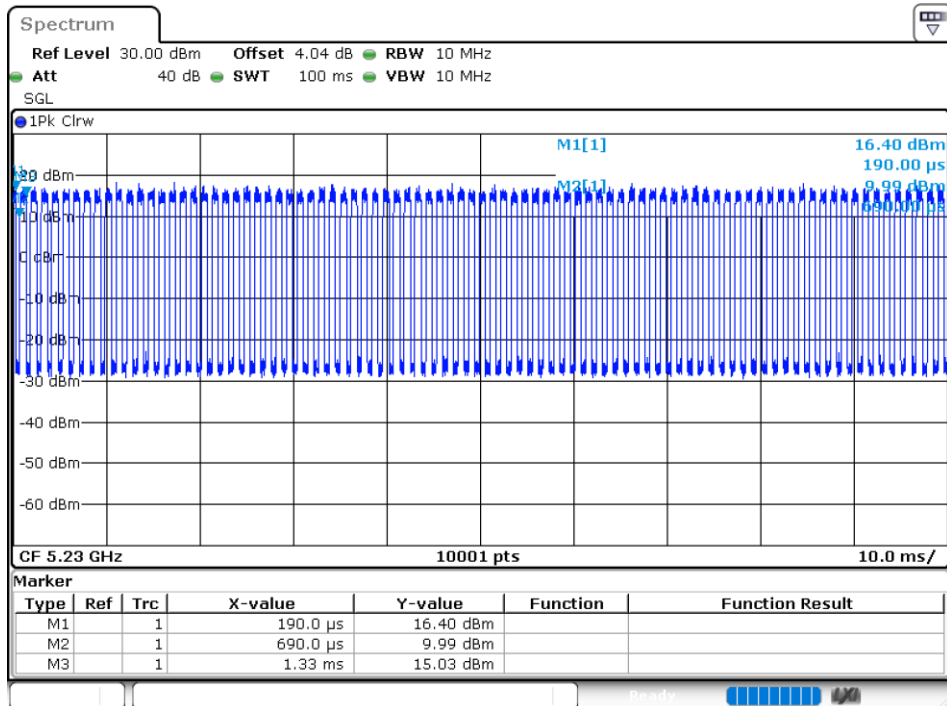
Duty Cycle NVNT n20 5240MHz Ant1



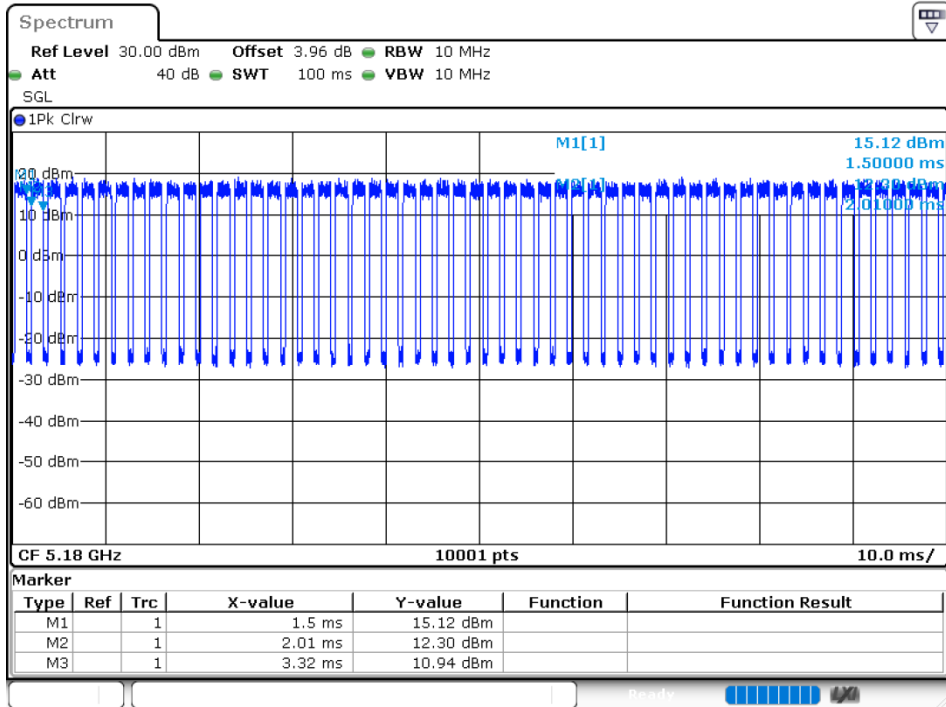
Duty Cycle NVNT n40 5190MHz Ant1



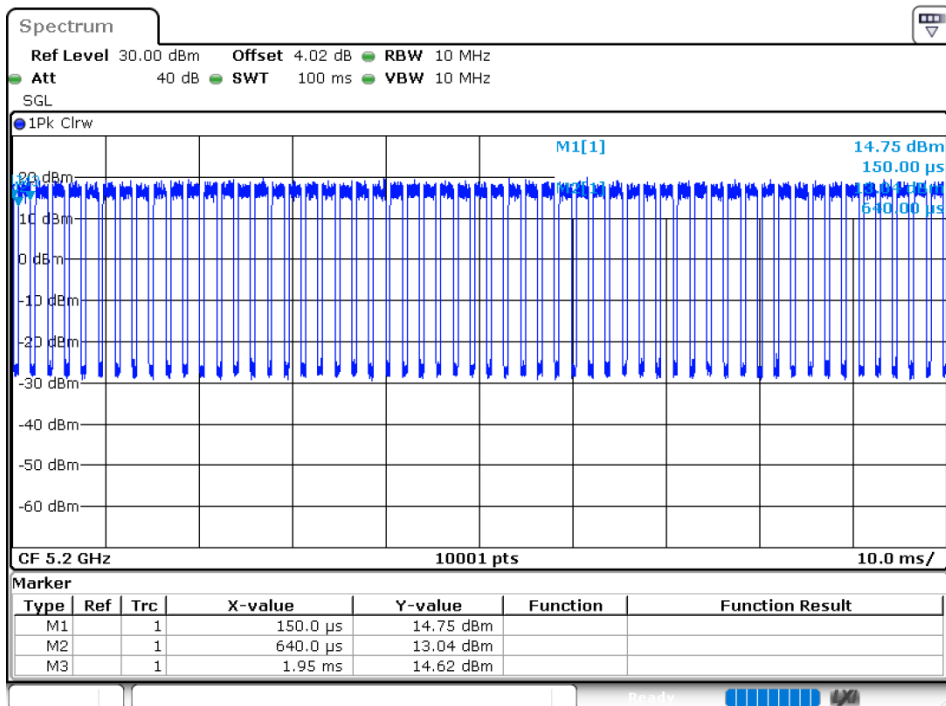
Duty Cycle NVNT n40 5230MHz Ant1



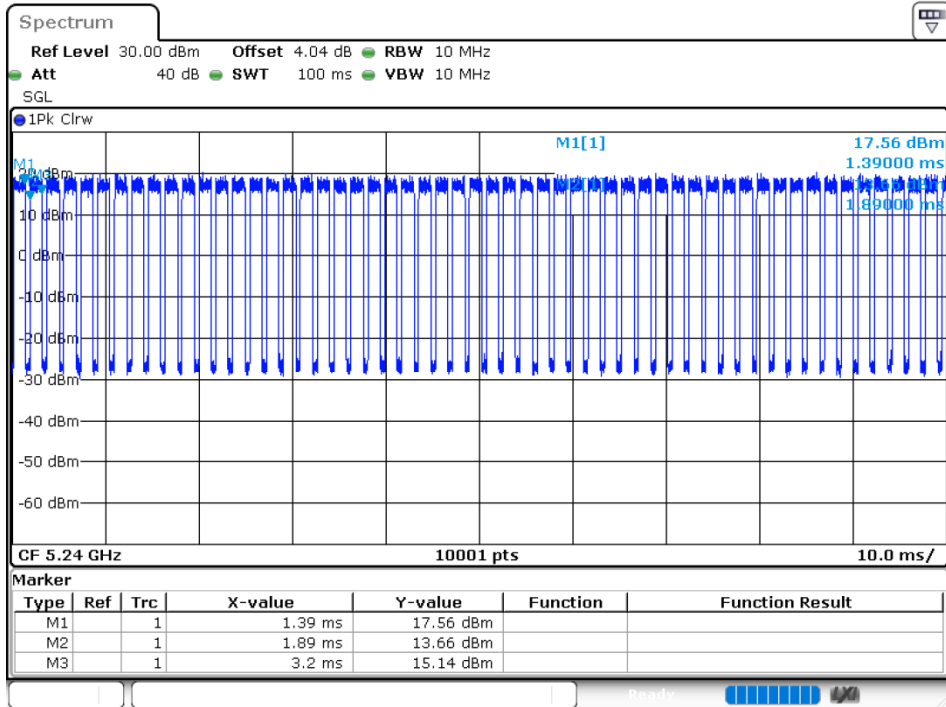
Duty Cycle NVNT ac20 5180MHz Ant1



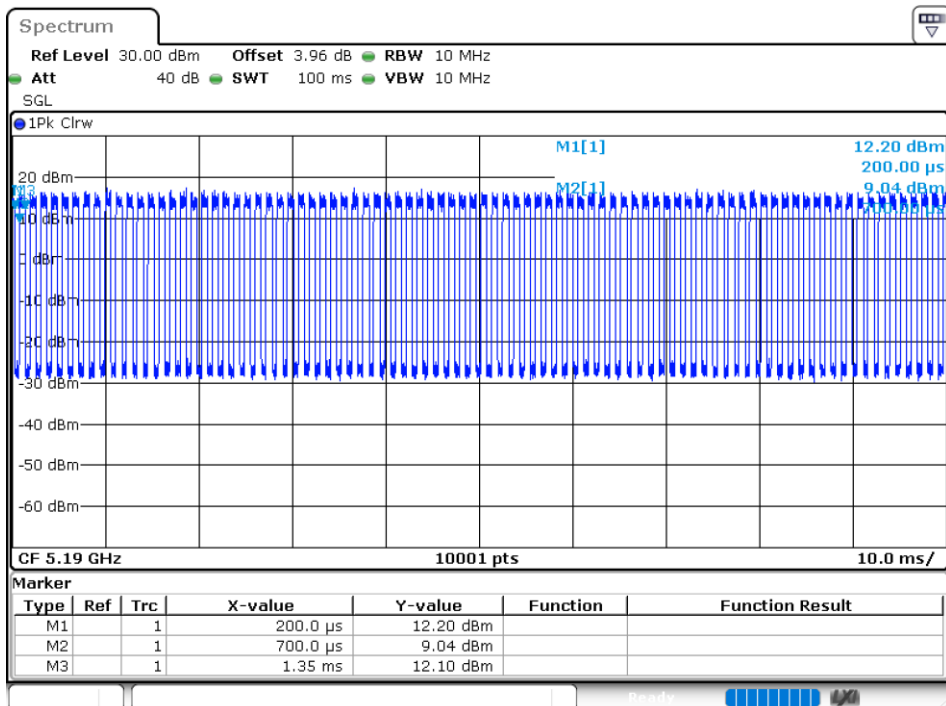
Duty Cycle NVNT ac20 5200MHz Ant1



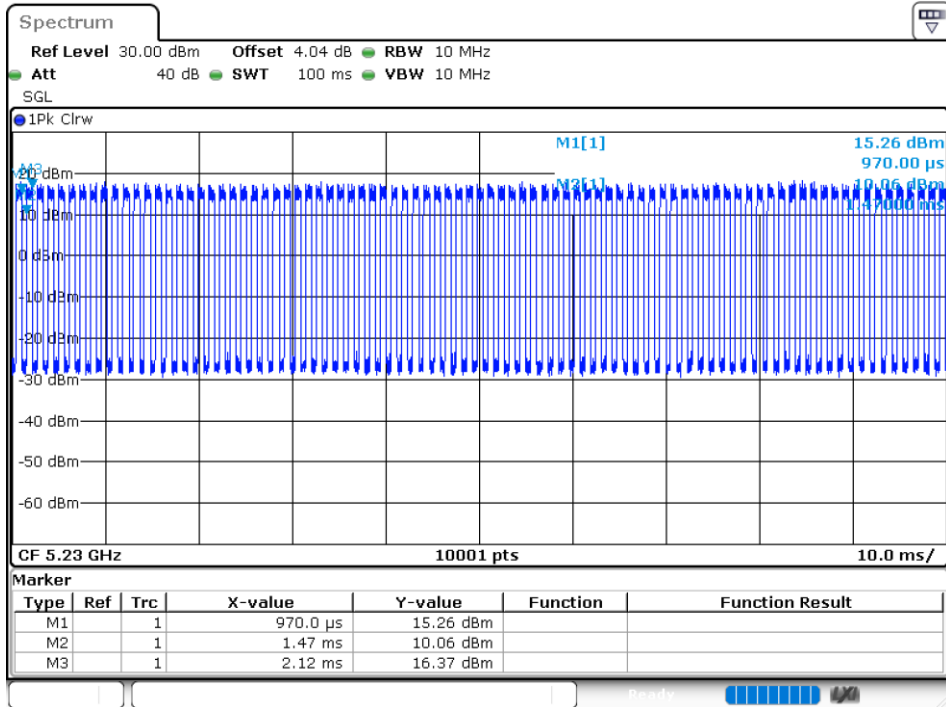
Duty Cycle NVNT ac20 5240MHz Ant1



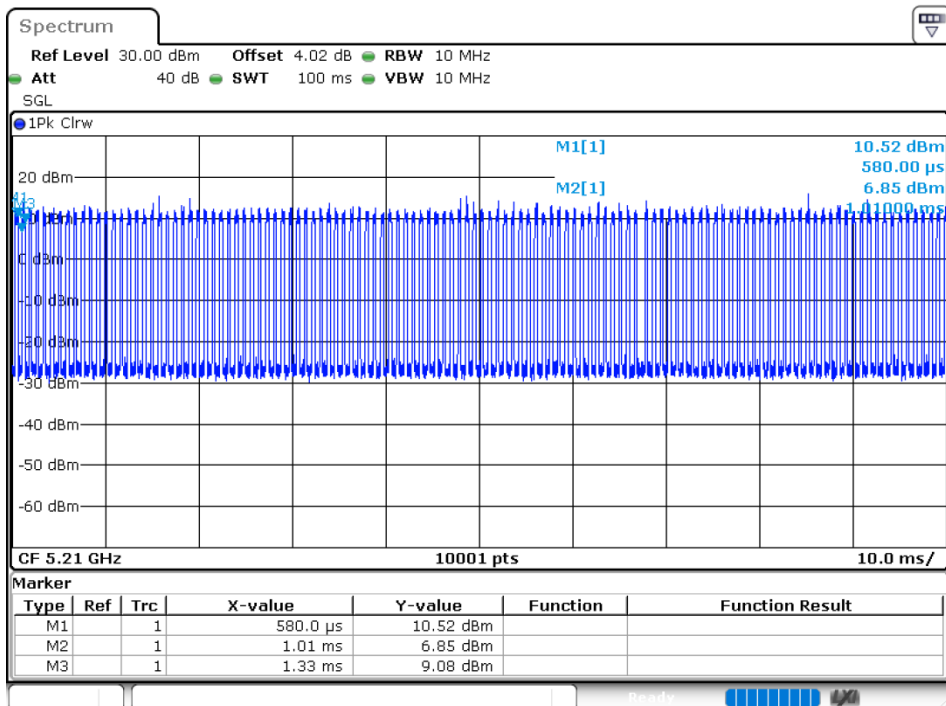
Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Maximum Conducted Output Power

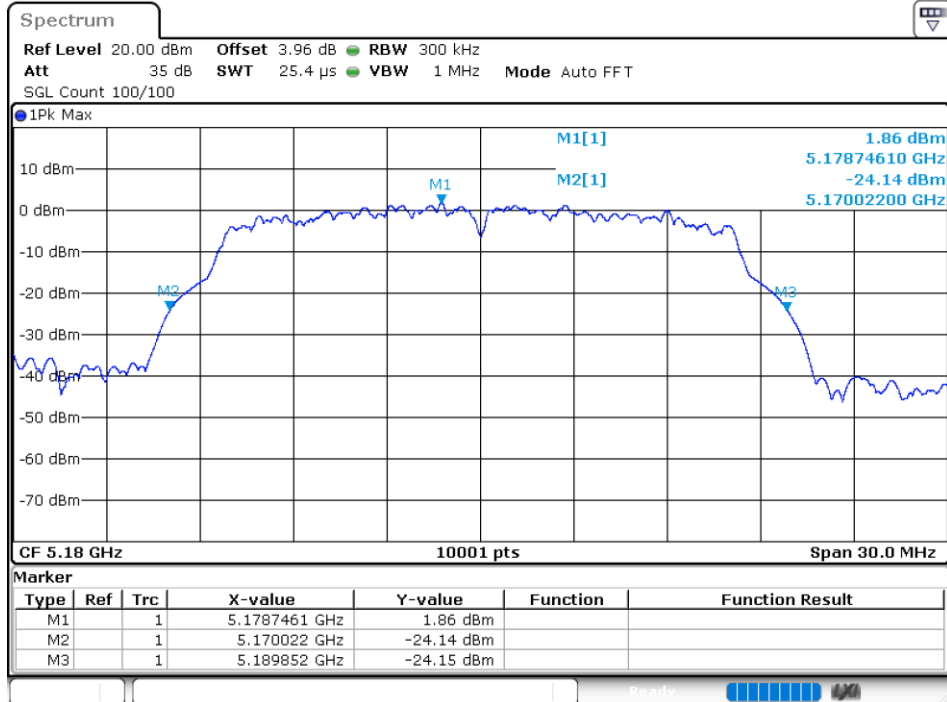
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.55	24	Pass
NVNT	a	5200	Ant1	12.5	24	Pass
NVNT	a	5240	Ant1	12.21	24	Pass
NVNT	n20	5180	Ant1	12.57	24	Pass
NVNT	n20	5200	Ant1	12.35	24	Pass
NVNT	n20	5240	Ant1	12.09	24	Pass
NVNT	n40	5190	Ant1	12.64	24	Pass
NVNT	n40	5230	Ant1	12.41	24	Pass
NVNT	ac20	5180	Ant1	12.52	24	Pass
NVNT	ac20	5200	Ant1	12.3	24	Pass
NVNT	ac20	5240	Ant1	11.99	24	Pass
NVNT	ac40	5190	Ant1	12.62	24	Pass
NVNT	ac40	5230	Ant1	12.44	24	Pass
NVNT	ac80	5210	Ant1	12.25	24	Pass

-26dB Bandwidth

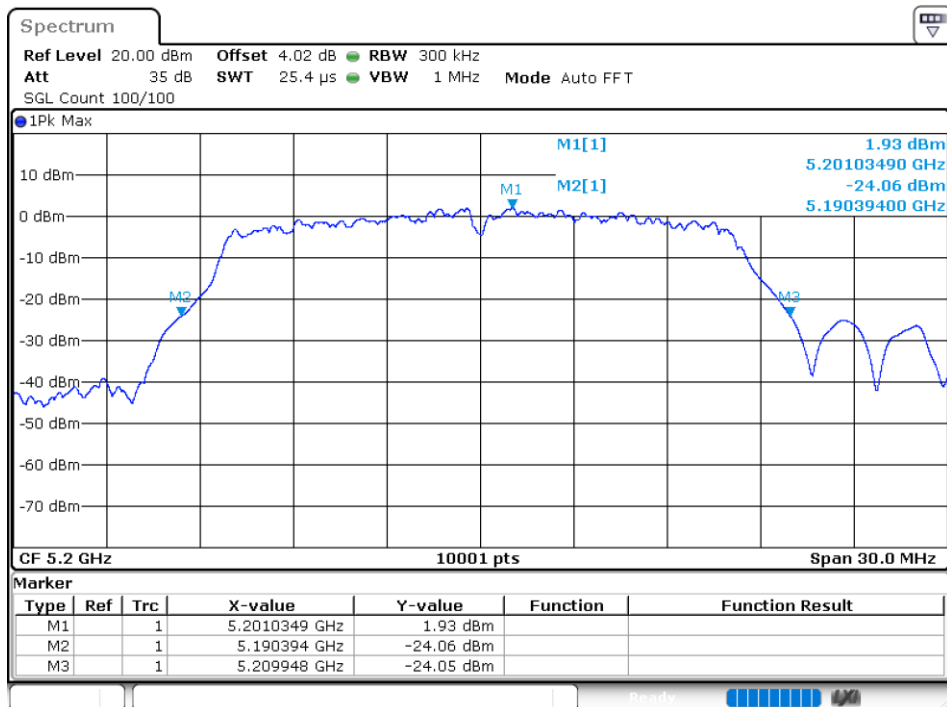
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.83	Pass
NVNT	a	5200	Ant1	19.554	Pass
NVNT	a	5240	Ant1	19.344	Pass
NVNT	n20	5180	Ant1	19.863	Pass
NVNT	n20	5200	Ant1	20.061	Pass
NVNT	n20	5240	Ant1	19.629	Pass
NVNT	n40	5190	Ant1	41.28	Pass
NVNT	n40	5230	Ant1	40.602	Pass
NVNT	ac20	5180	Ant1	19.86	Pass
NVNT	ac20	5200	Ant1	19.953	Pass
NVNT	ac20	5240	Ant1	19.656	Pass
NVNT	ac40	5190	Ant1	40.782	Pass
NVNT	ac40	5230	Ant1	40.5	Pass
NVNT	ac80	5210	Ant1	80.208	Pass

Test Graphs

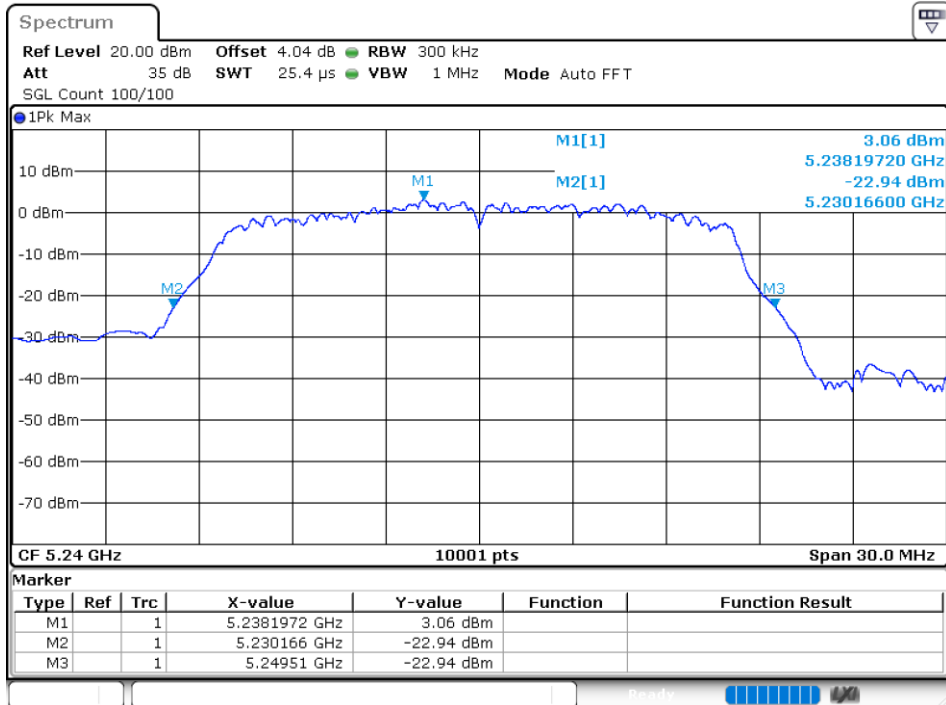
-26dB Bandwidth NVNT a 5180MHz Ant1



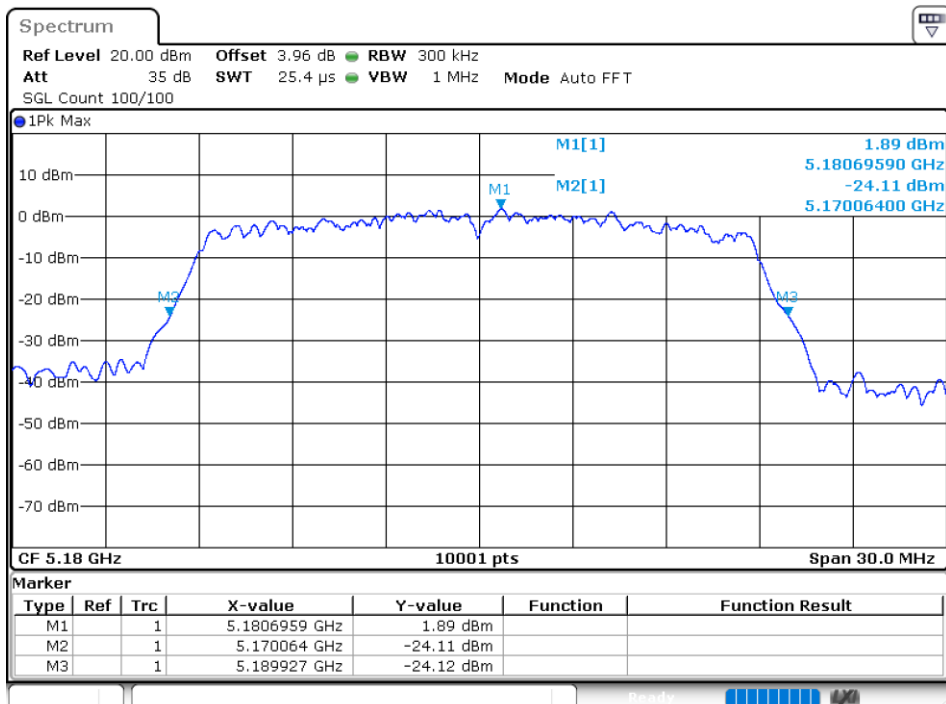
-26dB Bandwidth NVNT a 5200MHz Ant1



-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1

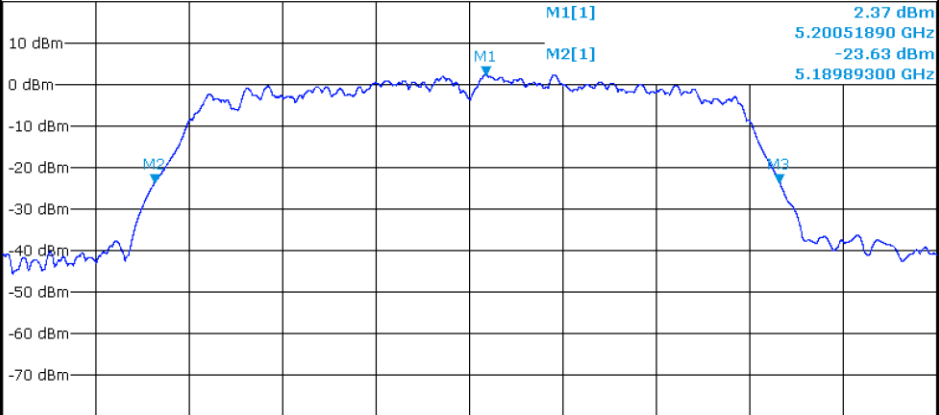


-26dB Bandwidth NVNT n20 5200MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.02 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max



Marker

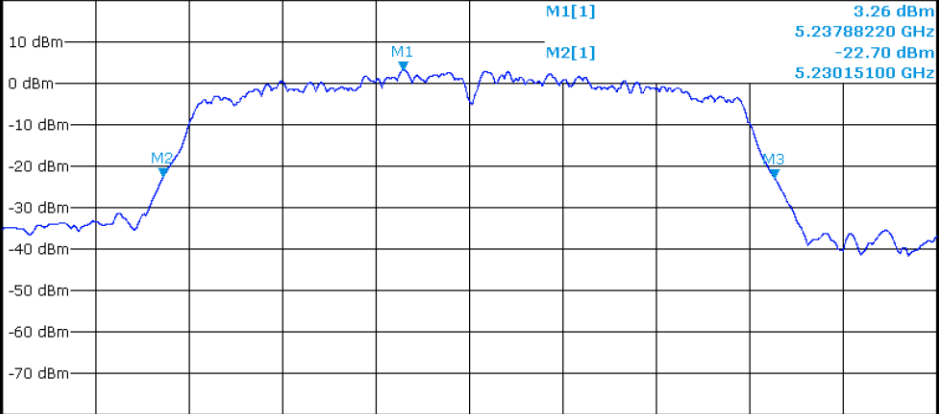
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2005189 GHz	2.37 dBm		
M2		1	5.189893 GHz	-23.63 dBm		
M3		1	5.209954 GHz	-23.61 dBm		

-26dB Bandwidth NVNT n20 5240MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.04 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

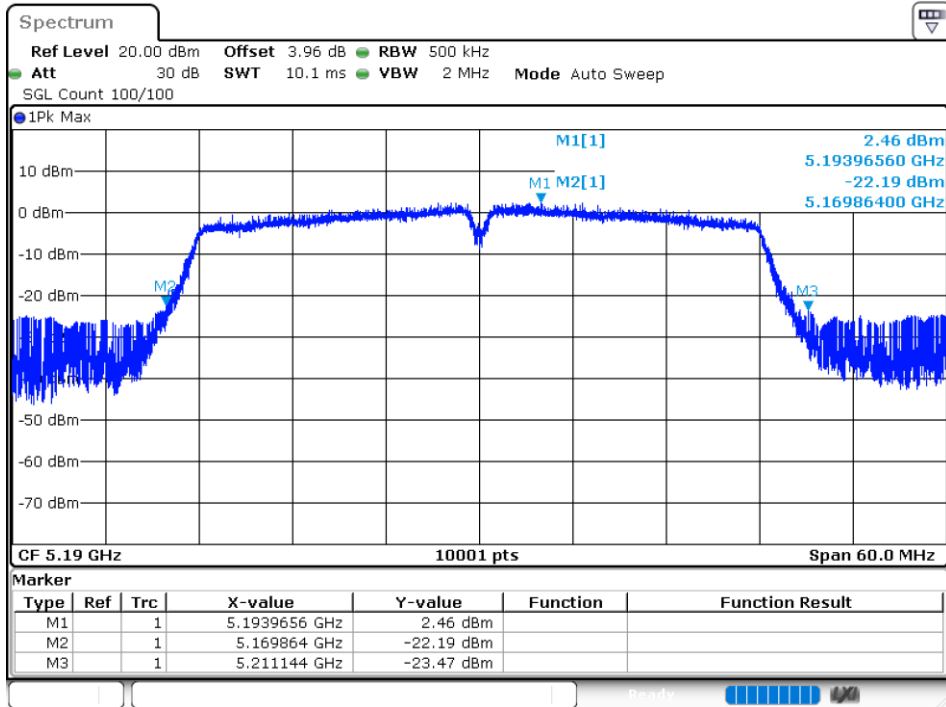
1Pk Max



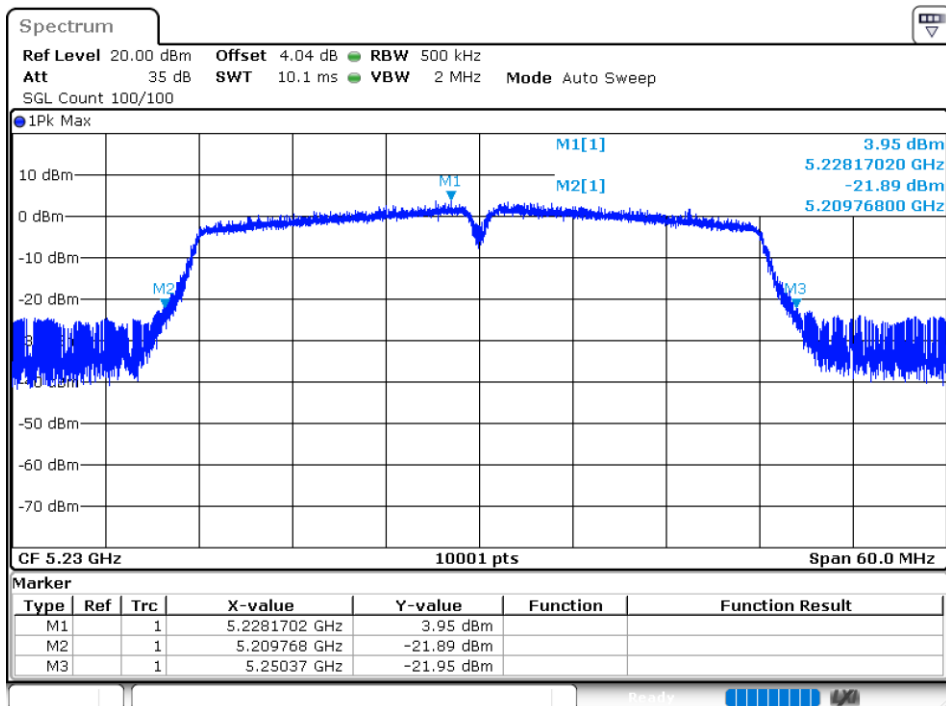
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2378822 GHz	3.26 dBm		
M2		1	5.230151 GHz	-22.70 dBm		
M3		1	5.24978 GHz	-22.73 dBm		

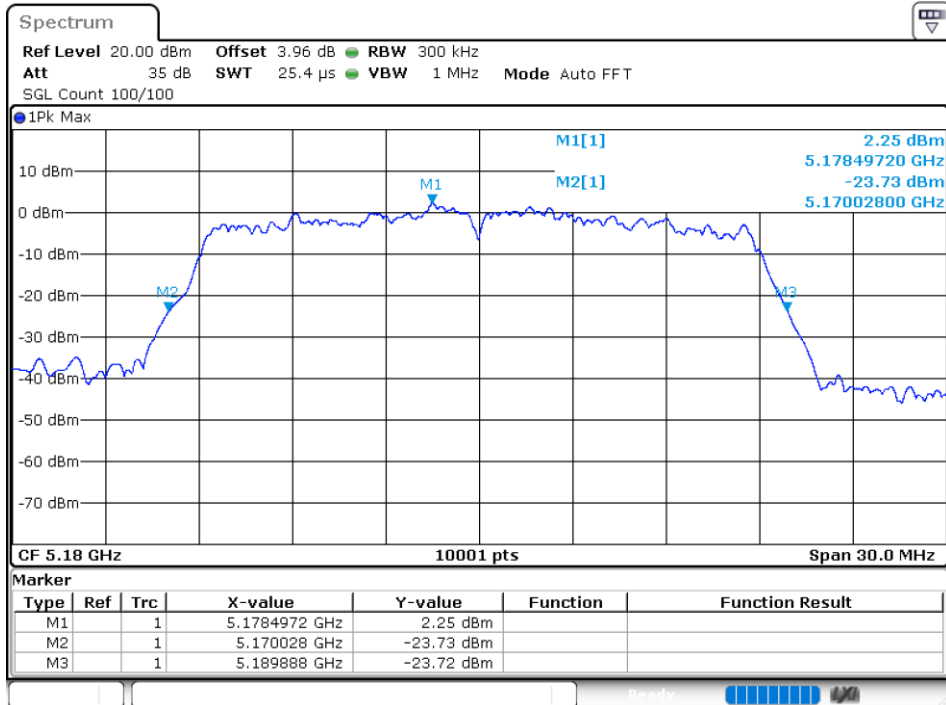
-26dB Bandwidth NVNT n40 5190MHz Ant1



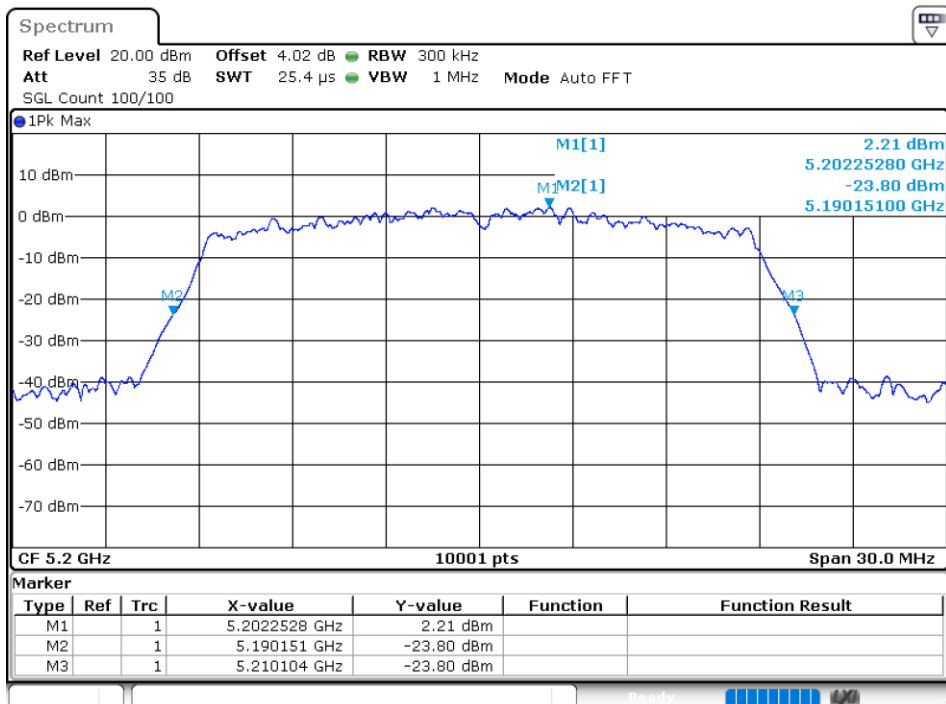
-26dB Bandwidth NVNT n40 5230MHz Ant1



-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1

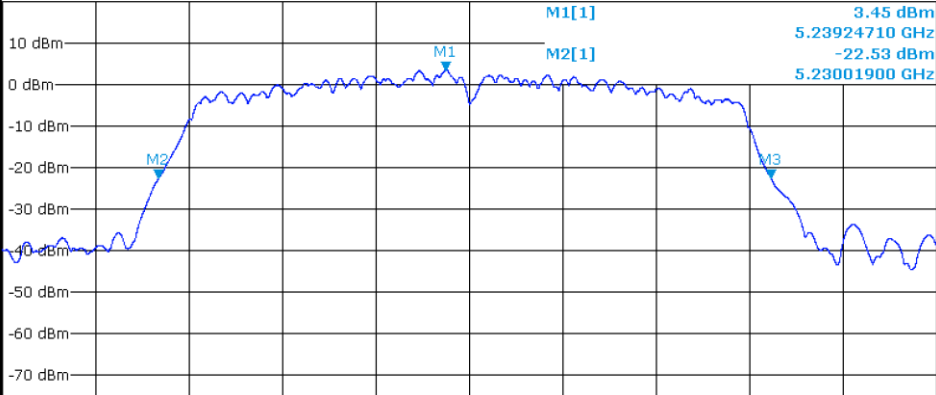


-26dB Bandwidth NVNT ac20 5240MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.04 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max



CF 5.24 GHz 10001 pts Span 30.0 MHz

Marker

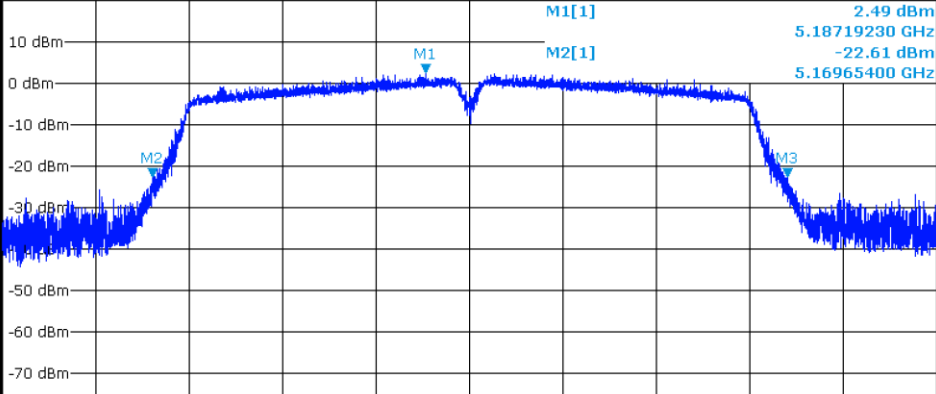
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2392471 GHz	3.45 dBm		
M2		1	5.230019 GHz	-22.53 dBm		
M3		1	5.249675 GHz	-22.55 dBm		

-26dB Bandwidth NVNT ac40 5190MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 3.96 dB RBW 500 kHz
Att 35 dB SWT 10.1 ms VBW 2 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max

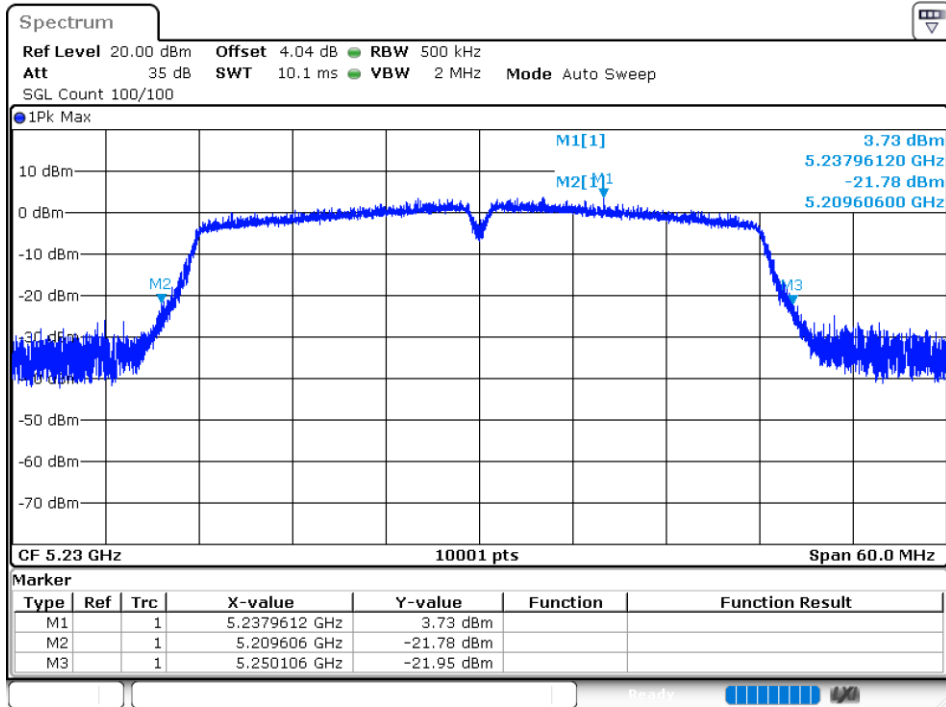


CF 5.19 GHz 10001 pts Span 60.0 MHz

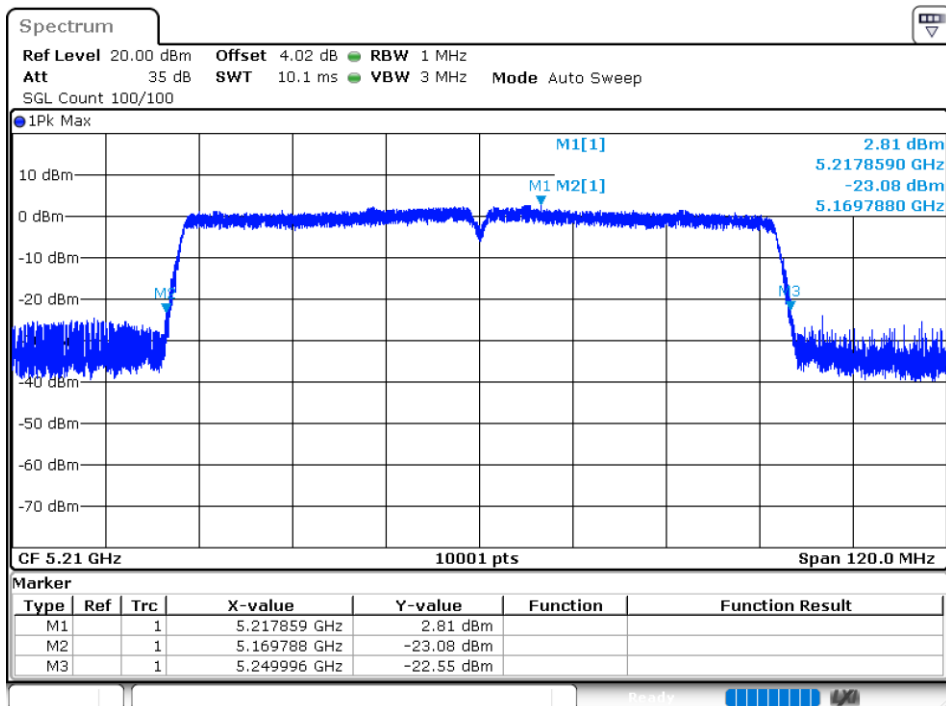
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.1871923 GHz	2.49 dBm		
M2		1	5.169654 GHz	-22.61 dBm		
M3		1	5.210436 GHz	-22.46 dBm		

-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1

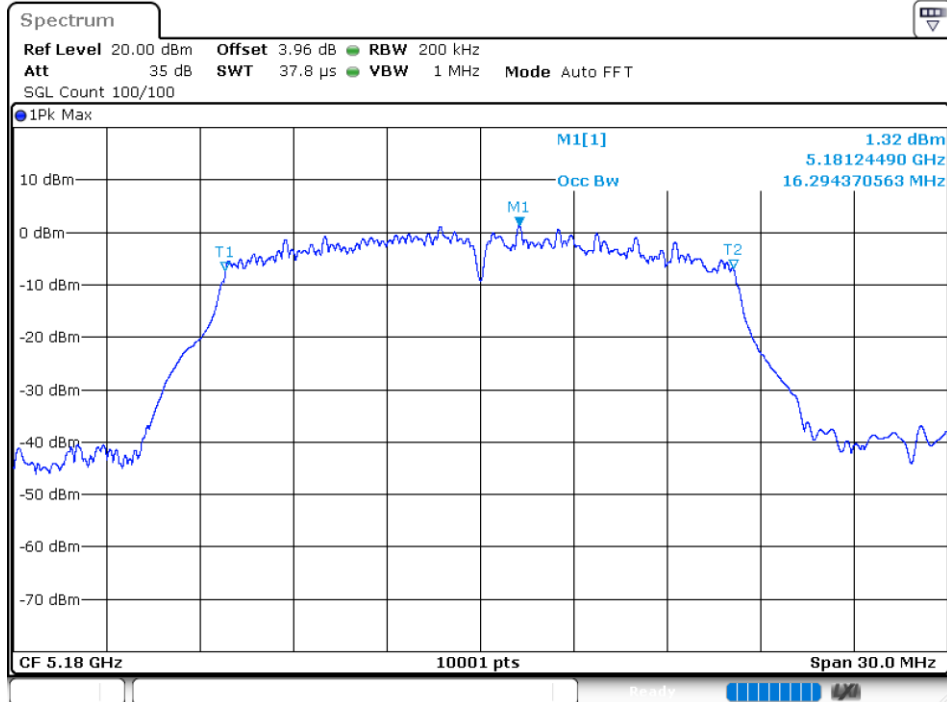


Occupied Channel Bandwidth

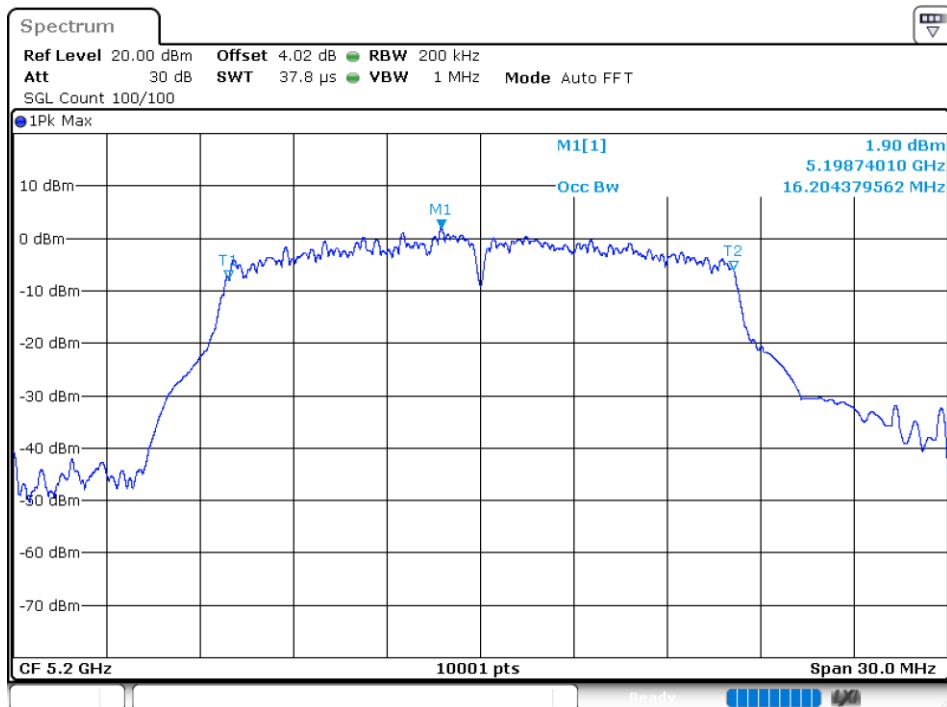
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.294
NVNT	a	5200	Ant1	16.204
NVNT	a	5240	Ant1	16.33
NVNT	n20	5180	Ant1	17.476
NVNT	n20	5200	Ant1	17.455
NVNT	n20	5240	Ant1	17.467
NVNT	n40	5190	Ant1	36.032
NVNT	n40	5230	Ant1	35.954
NVNT	ac20	5180	Ant1	17.542
NVNT	ac20	5200	Ant1	17.506
NVNT	ac20	5240	Ant1	17.497
NVNT	ac40	5190	Ant1	36.008
NVNT	ac40	5230	Ant1	35.93
NVNT	ac80	5210	Ant1	75.52

Test Graphs

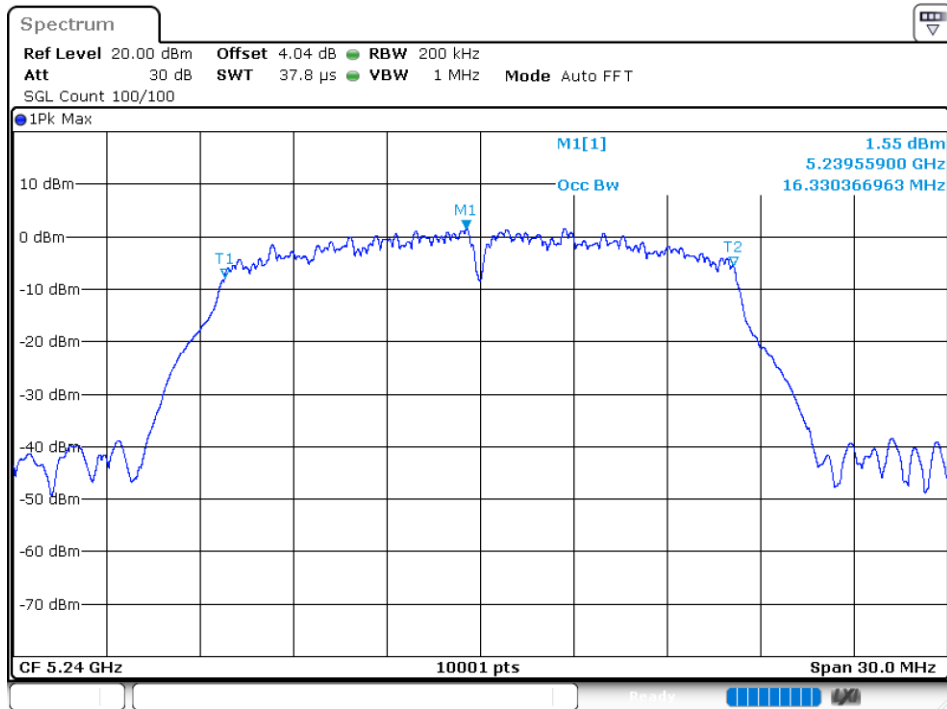
OBW NVNT a 5180MHz Ant1



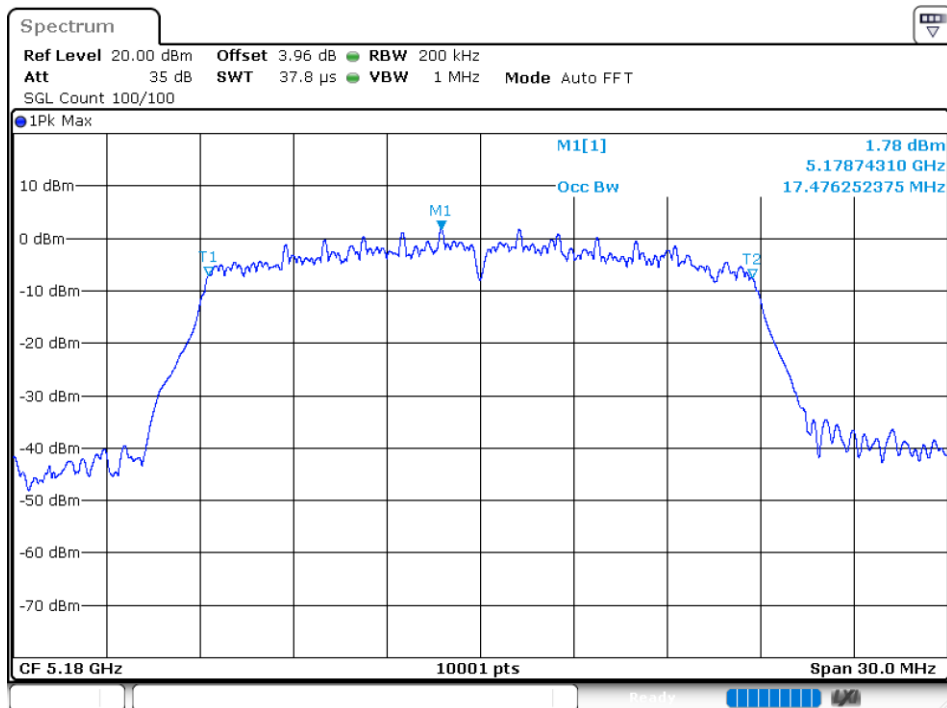
OBW NVNT a 5200MHz Ant1



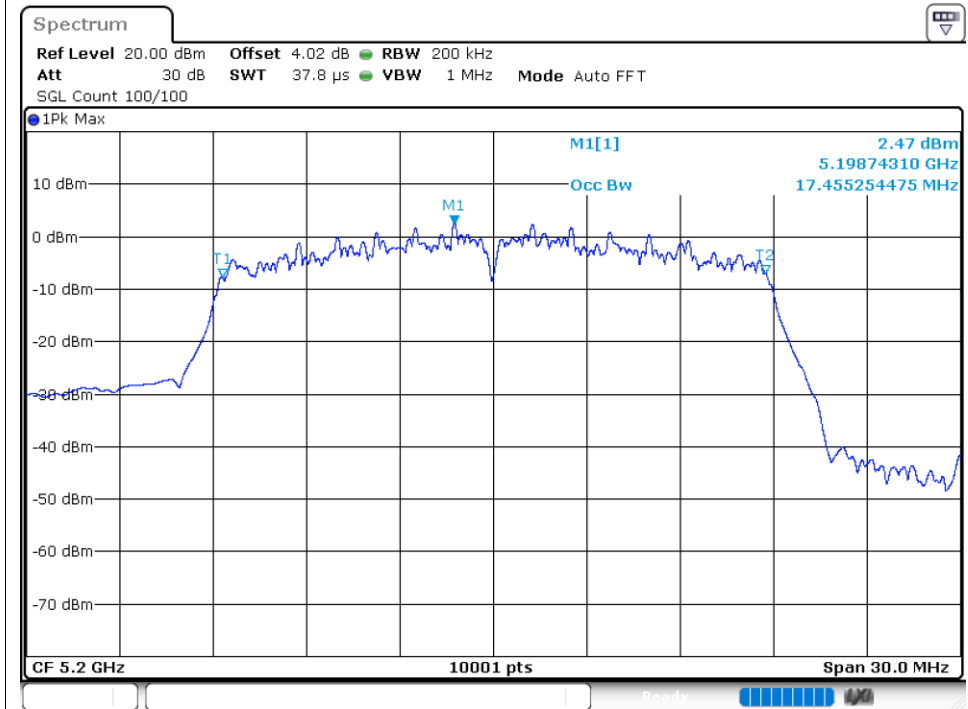
OBW NVNT a 5240MHz Ant1



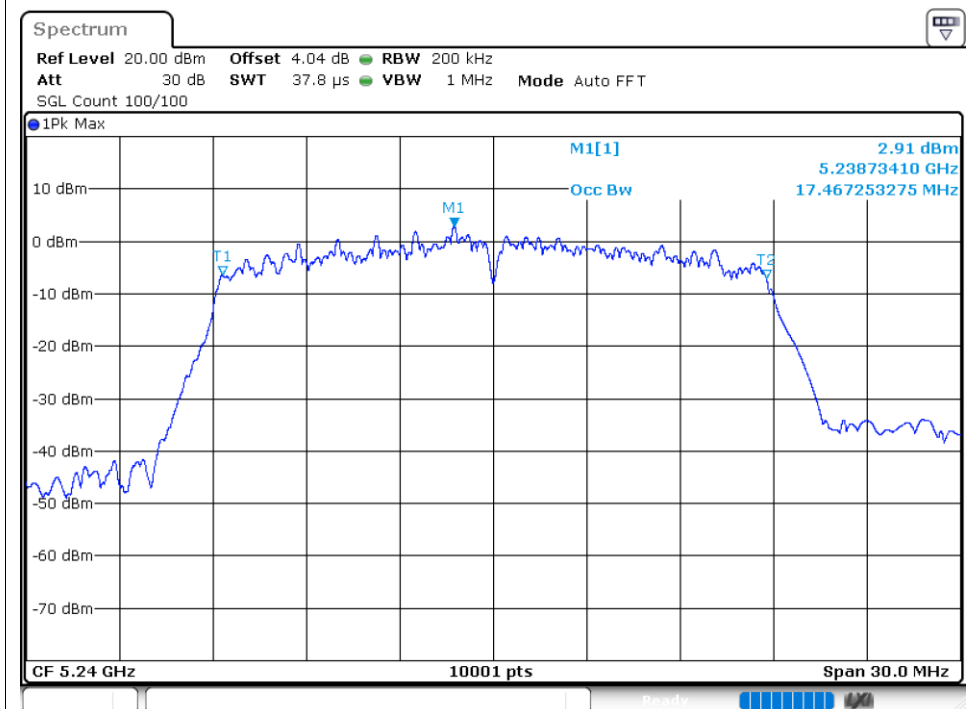
OBW NVNT n20 5180MHz Ant1



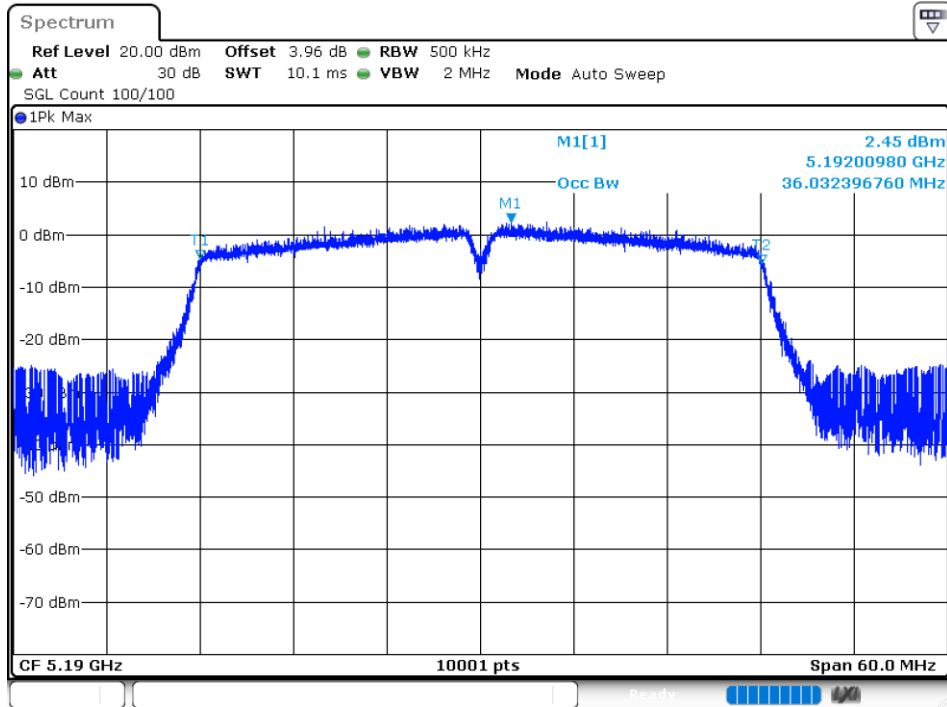
OBW NVNT n20 5200MHz Ant1



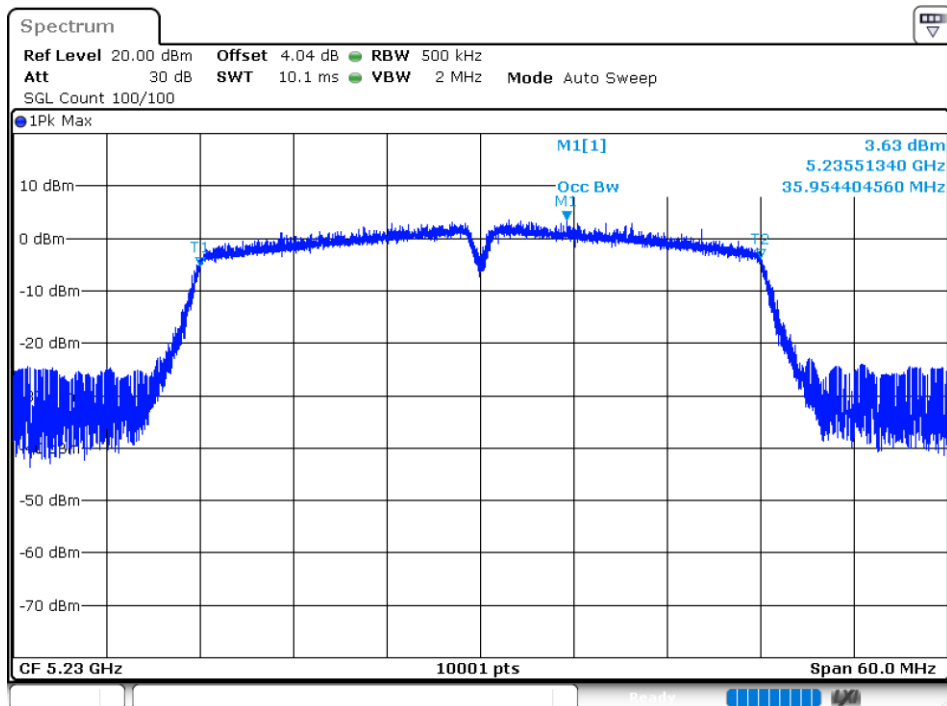
OBW NVNT n20 5240MHz Ant1



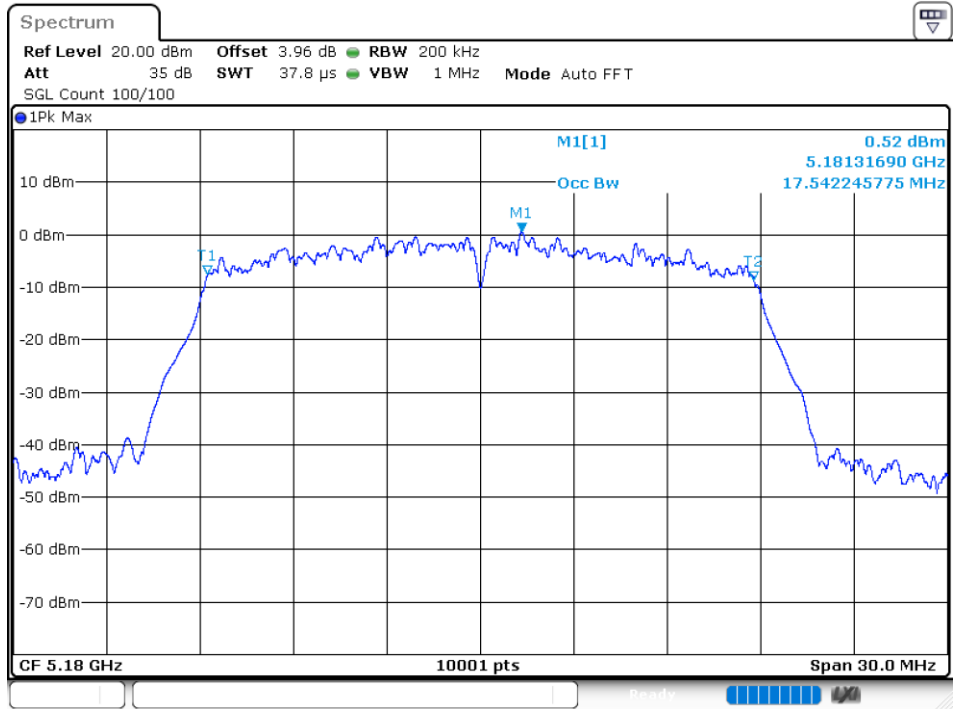
OBW NVNT n40 5190MHz Ant1



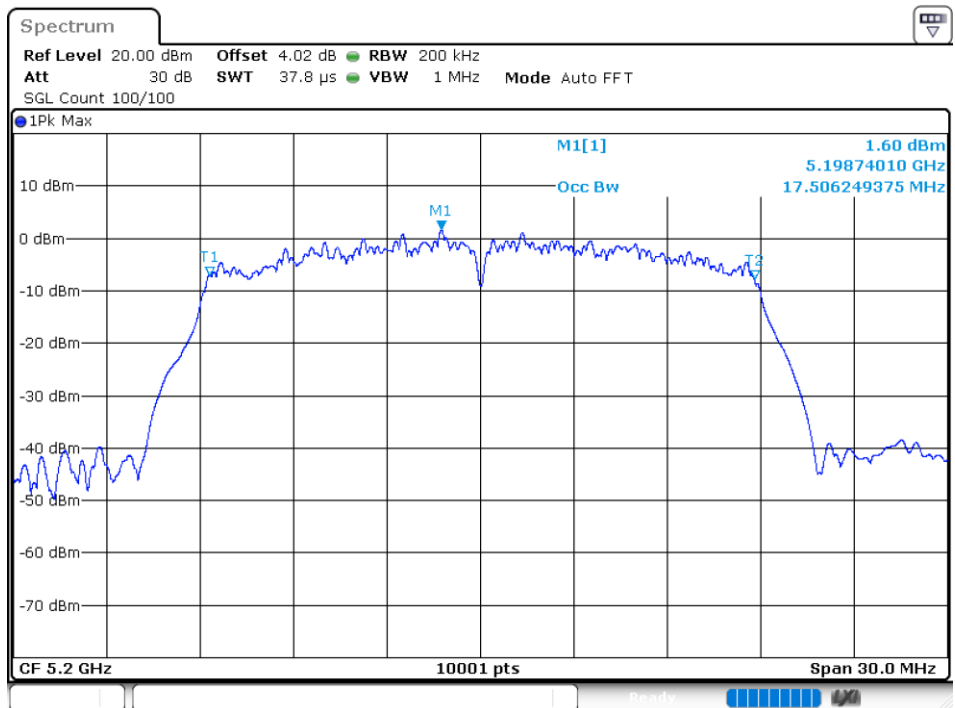
OBW NVNT n40 5230MHz Ant1



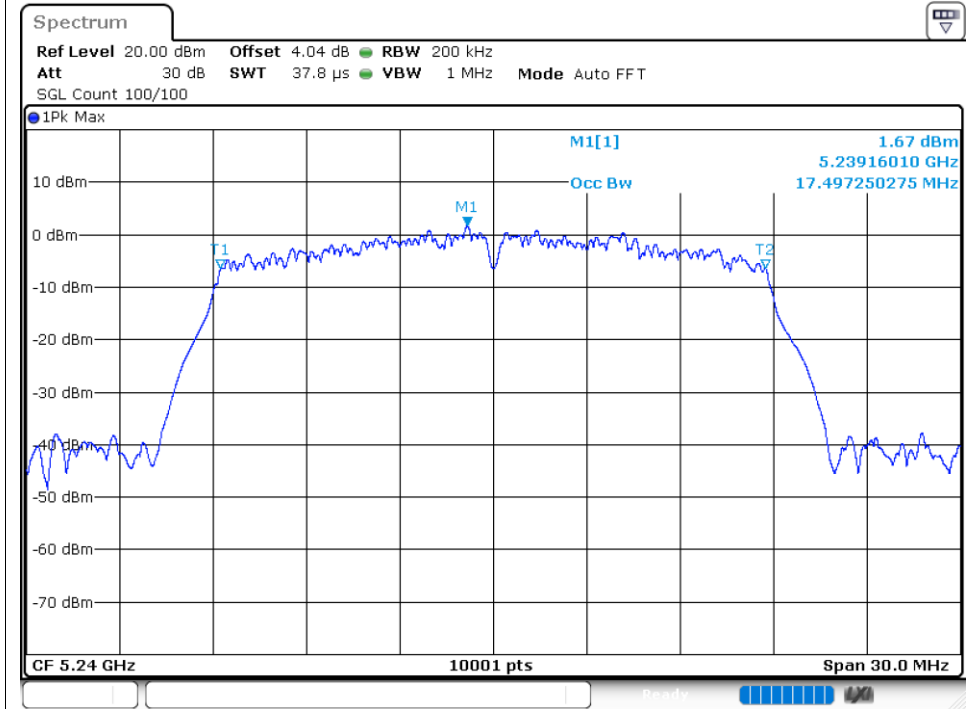
OBW NVNT ac20 5180MHz Ant1



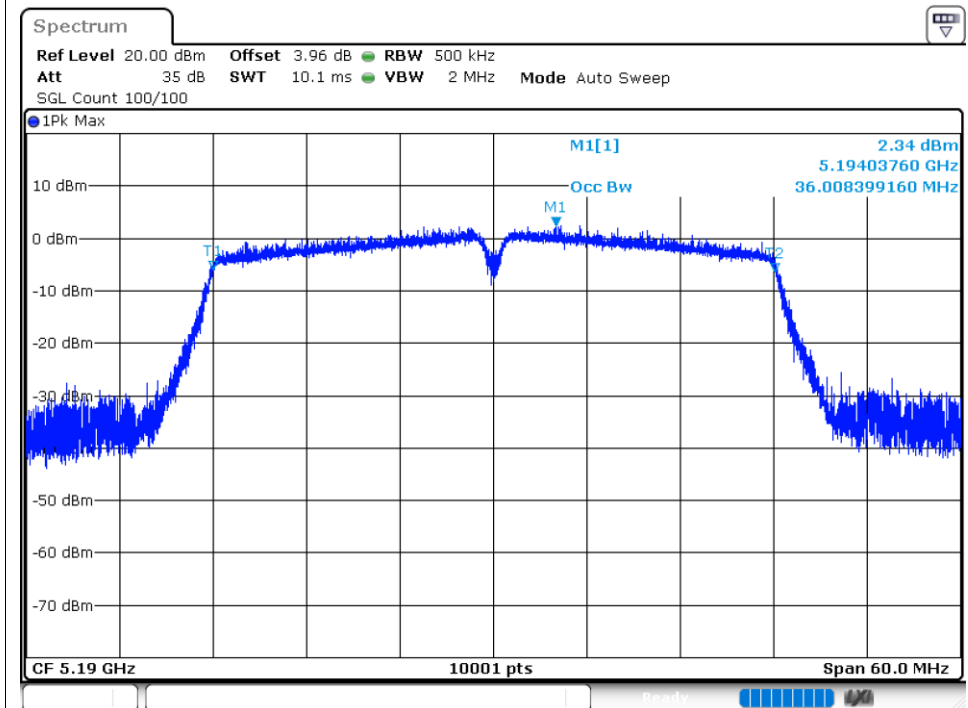
OBW NVNT ac20 5200MHz Ant1



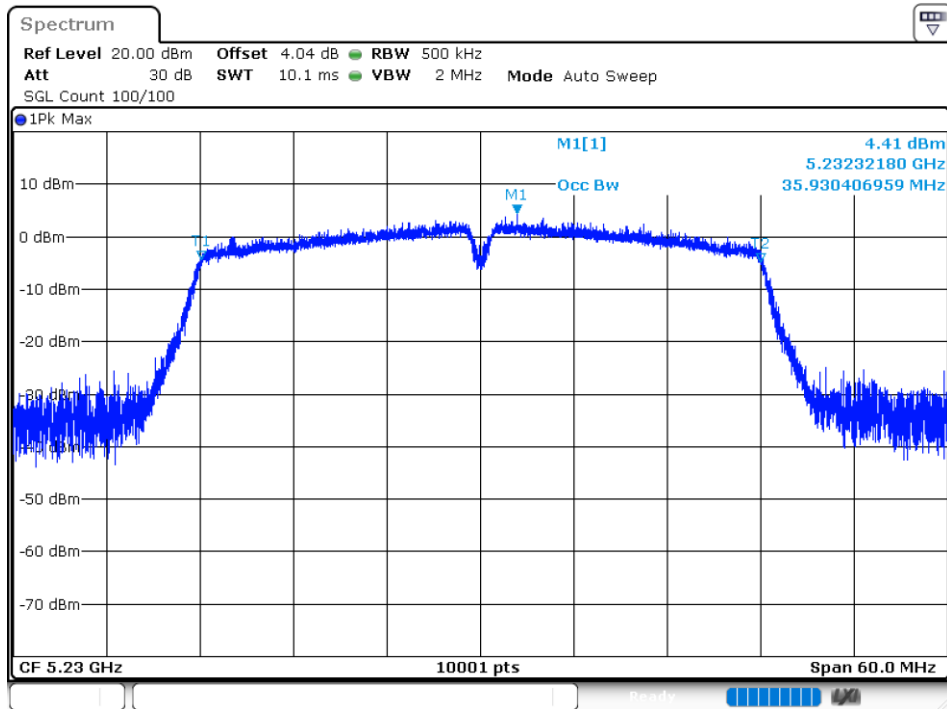
OBW NVNT ac20 5240MHz Ant1



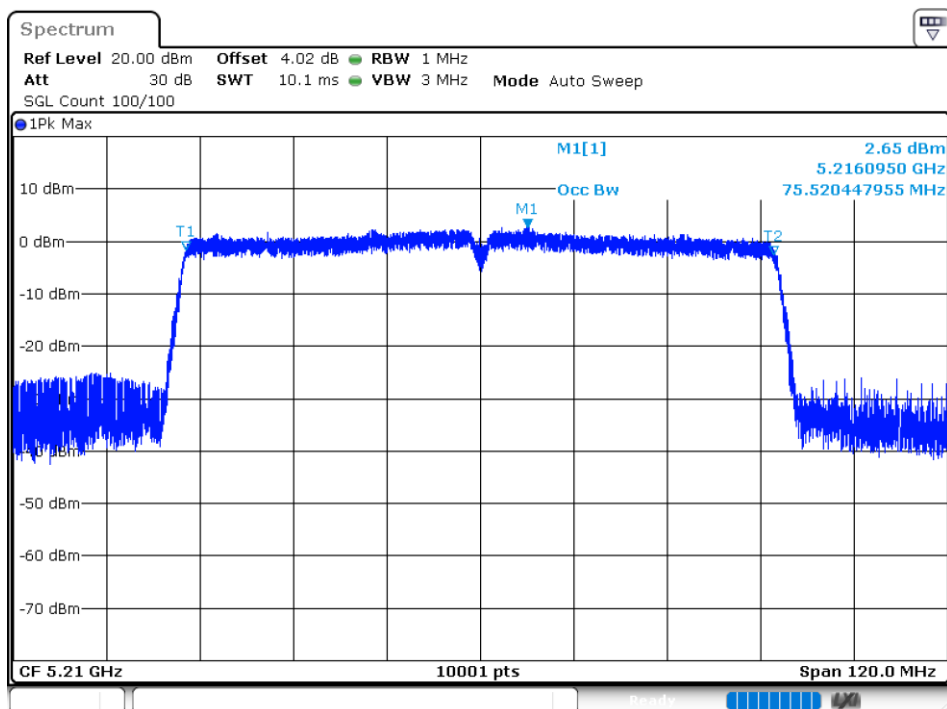
OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



OBW NVNT ac80 5210MHz Ant1

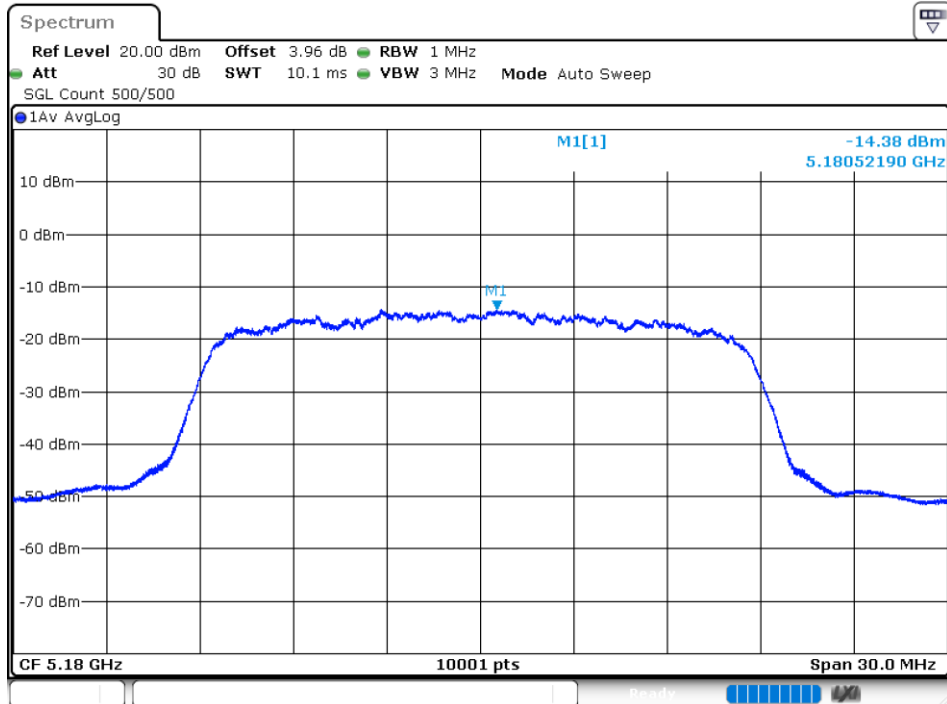


Maximum Power Spectral Density Level

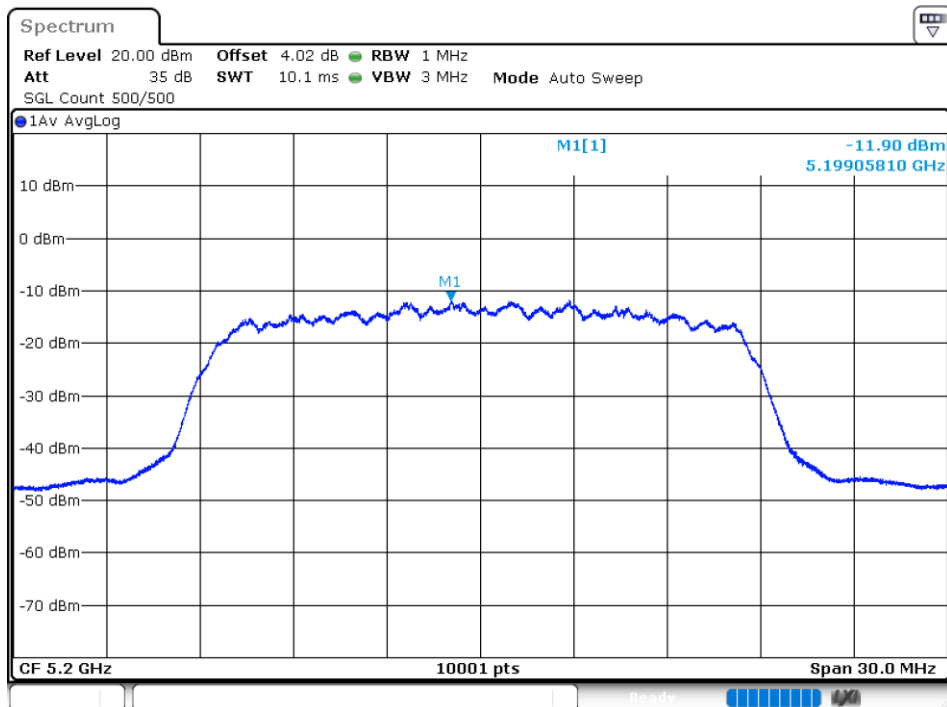
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-14.38	1.32	-13.06	11	Pass
NVNT	a	5200	Ant1	-11.9	1.3	-10.6	11	Pass
NVNT	a	5240	Ant1	-12.97	1.31	-11.66	11	Pass
NVNT	n20	5180	Ant1	-11.41	1.4	-10.01	11	Pass
NVNT	n20	5200	Ant1	-12.14	1.37	-10.77	11	Pass
NVNT	n20	5240	Ant1	-10.84	1.37	-9.47	11	Pass
NVNT	n40	5190	Ant1	-23.69	2.42	-21.27	11	Pass
NVNT	n40	5230	Ant1	-20.99	2.43	-18.56	11	Pass
NVNT	ac20	5180	Ant1	-13.1	1.37	-11.73	11	Pass
NVNT	ac20	5200	Ant1	-13.39	1.39	-12	11	Pass
NVNT	ac20	5240	Ant1	-11.77	1.37	-10.4	11	Pass
NVNT	ac40	5190	Ant1	-22.89	2.4	-20.49	11	Pass
NVNT	ac40	5230	Ant1	-21.17	2.4	-18.77	11	Pass
NVNT	ac80	5210	Ant1	-26.74	3.91	-22.83	11	Pass

Test Graphs

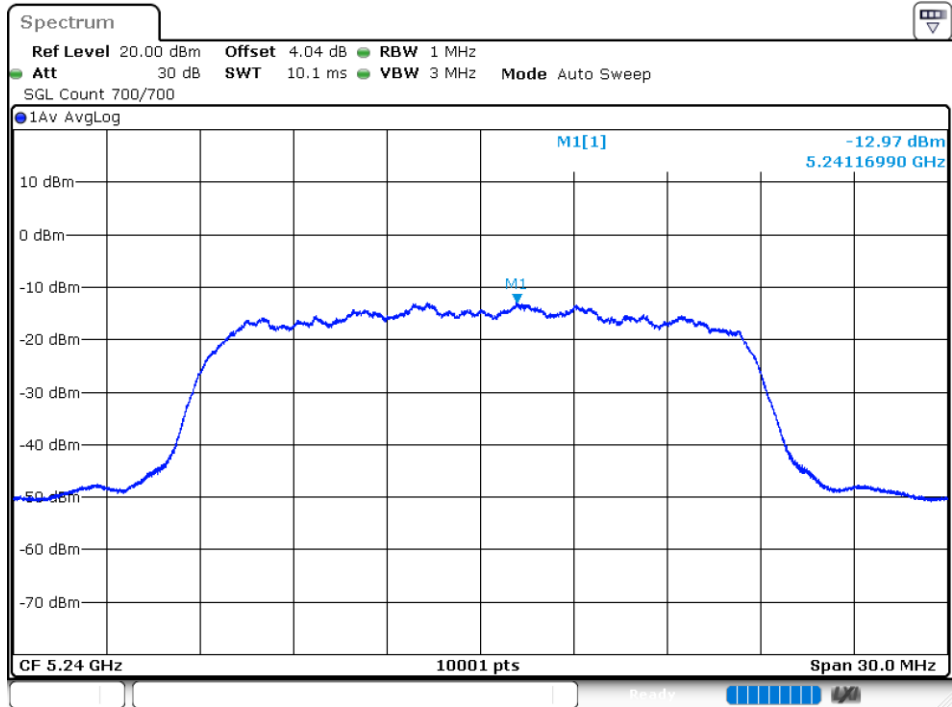
PSD NVNT a 5180MHz Ant1



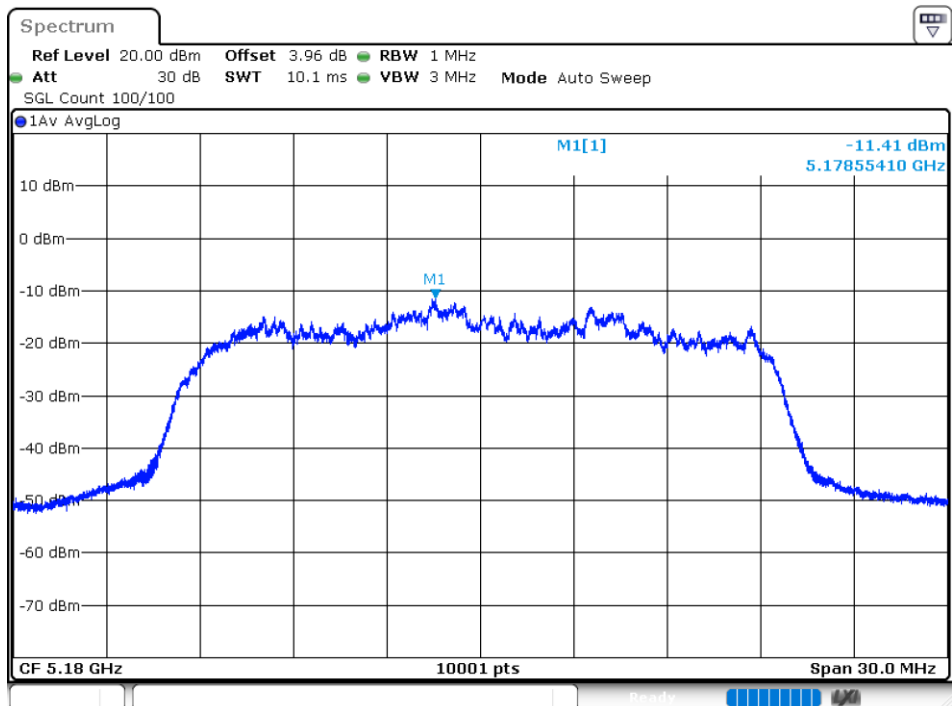
PSD NVNT a 5200MHz Ant1



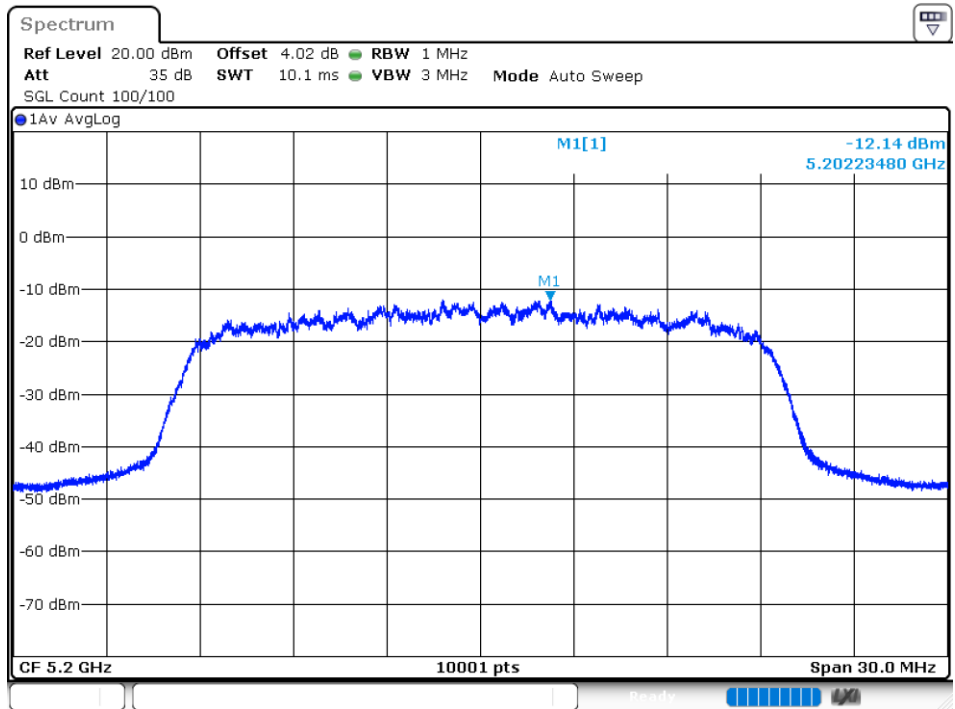
PSD NVNT a 5240MHz Ant1



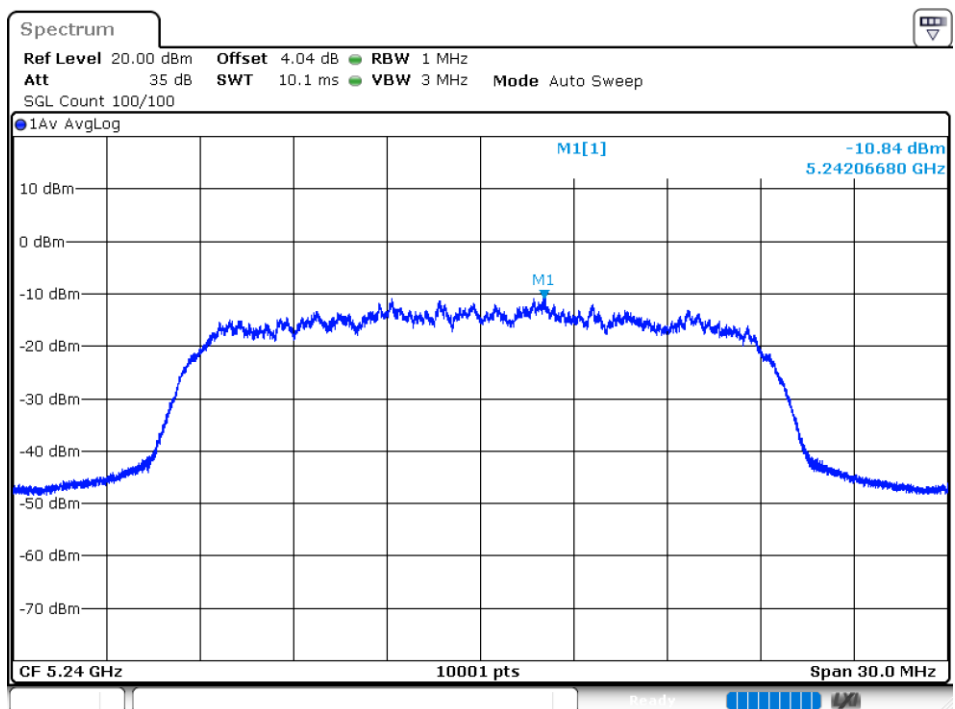
PSD NVNT n20 5180MHz Ant1



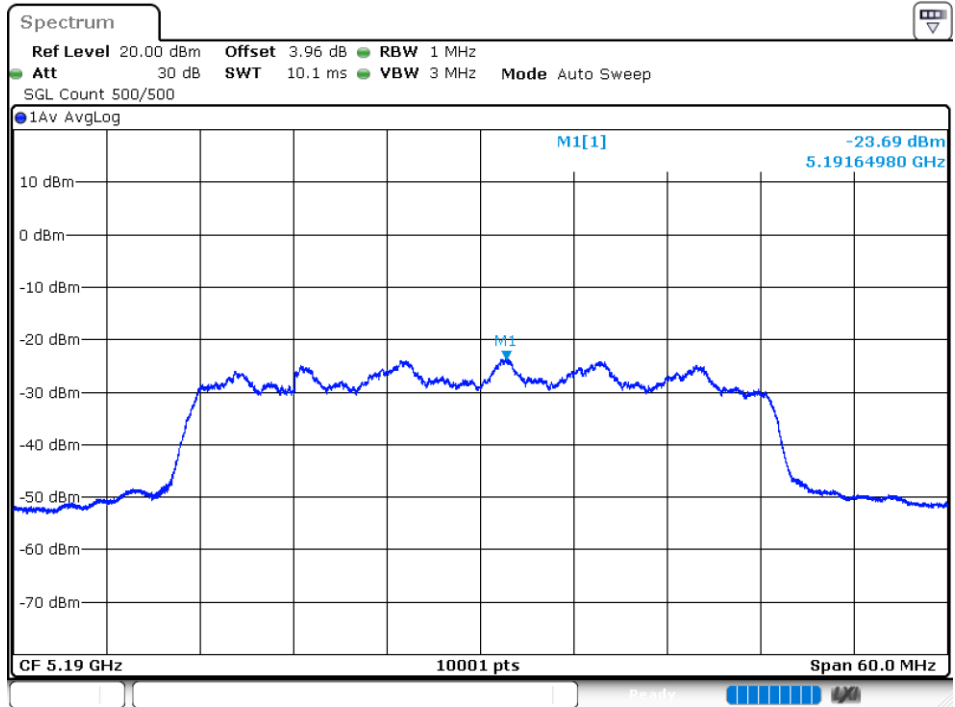
PSD NVNT n20 5200MHz Ant1



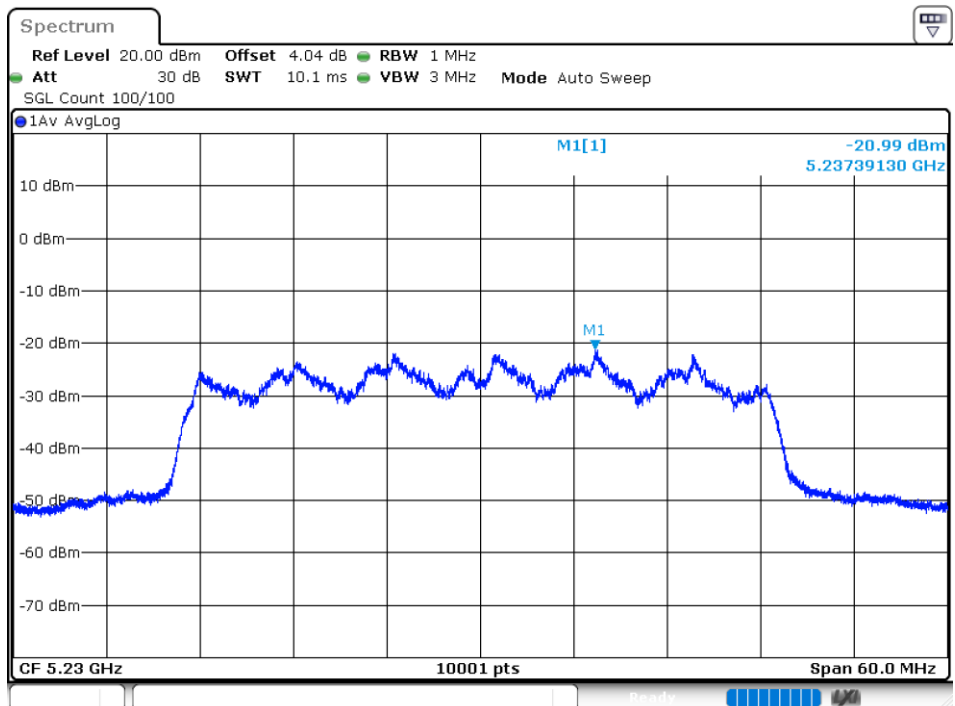
PSD NVNT n20 5240MHz Ant1



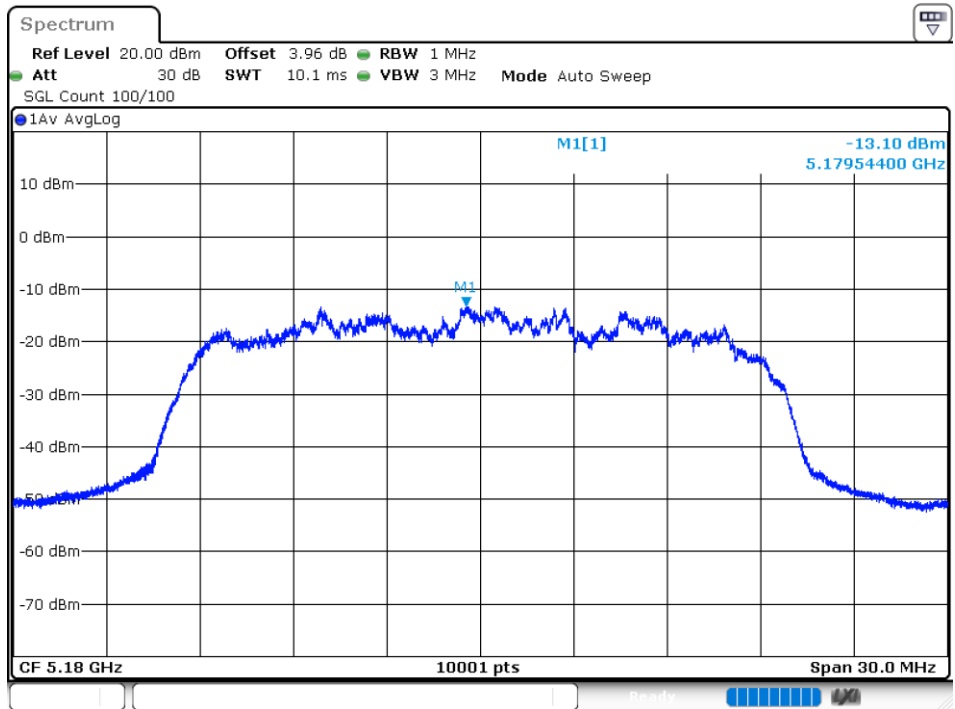
PSD NVNT n40 5190MHz Ant1



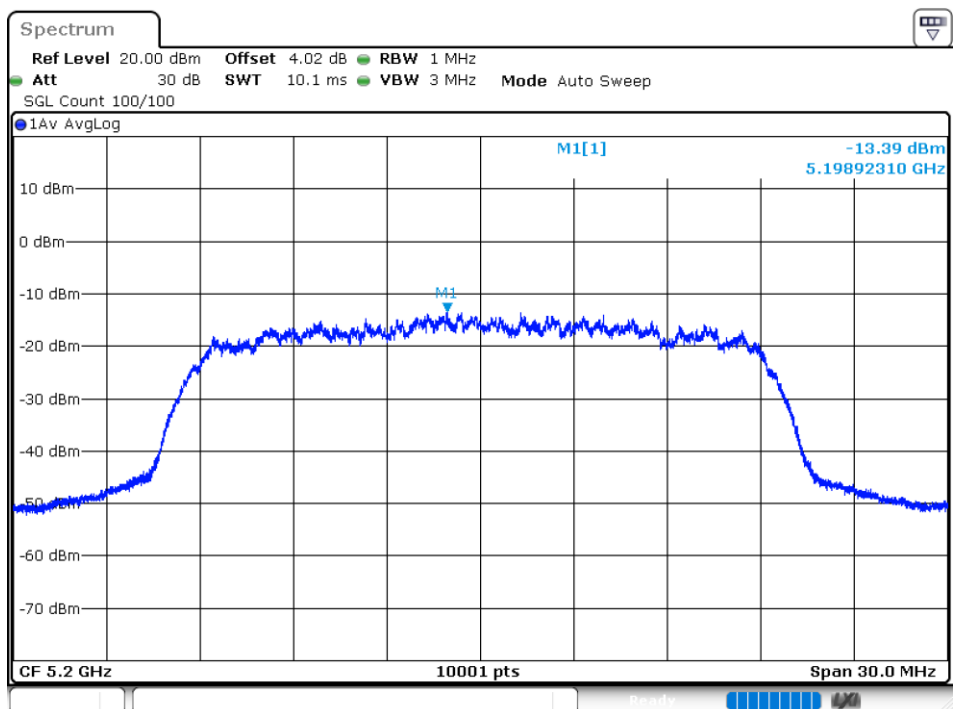
PSD NVNT n40 5230MHz Ant1



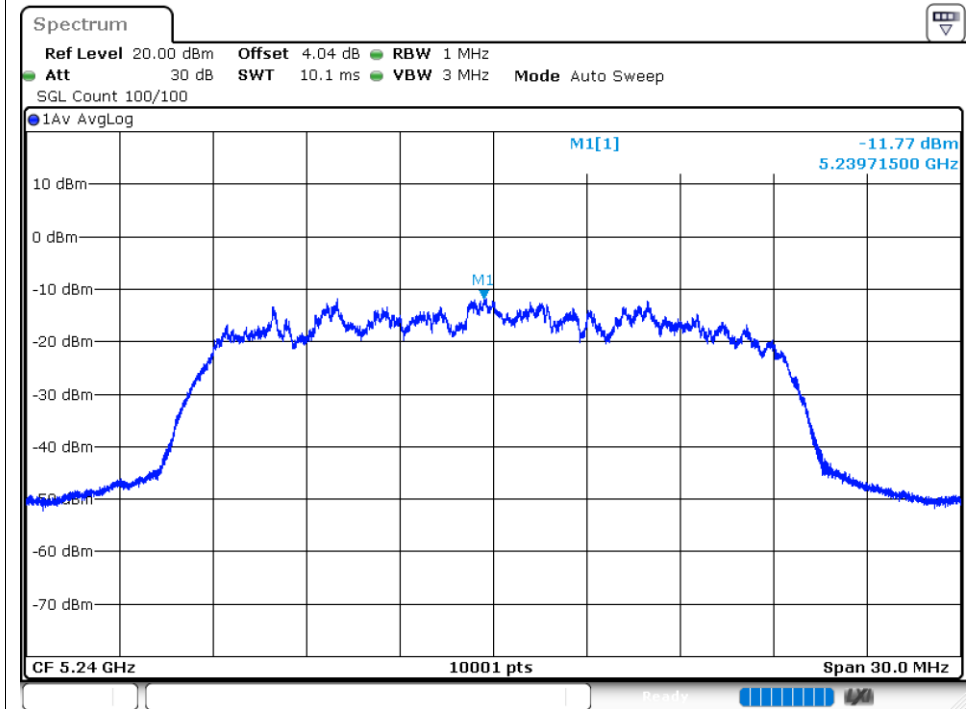
PSD NVNT ac20 5180MHz Ant1



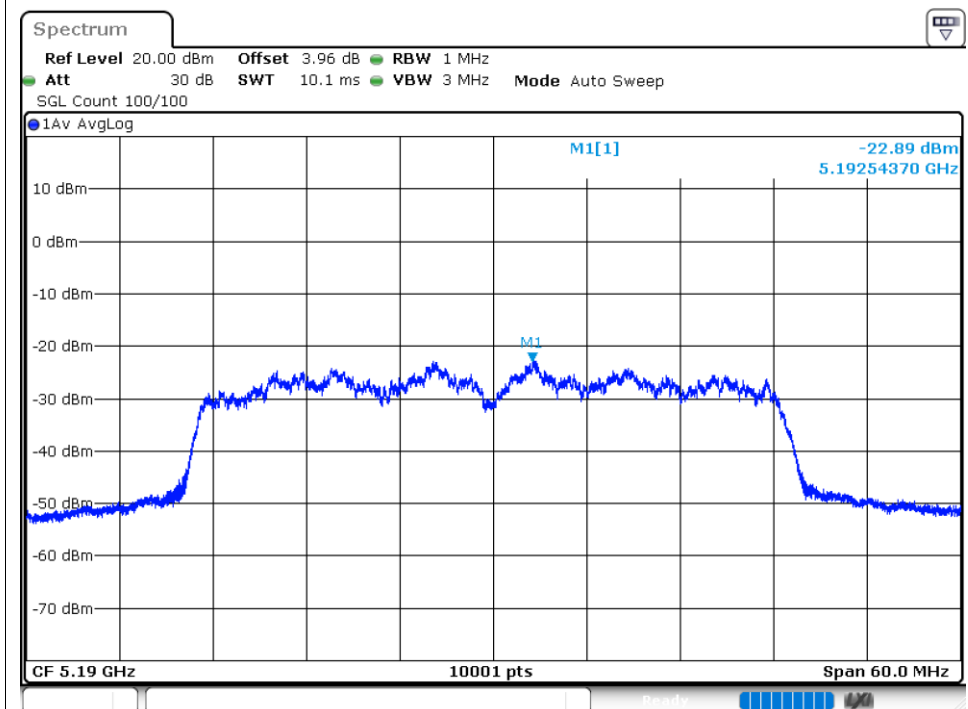
PSD NVNT ac20 5200MHz Ant1



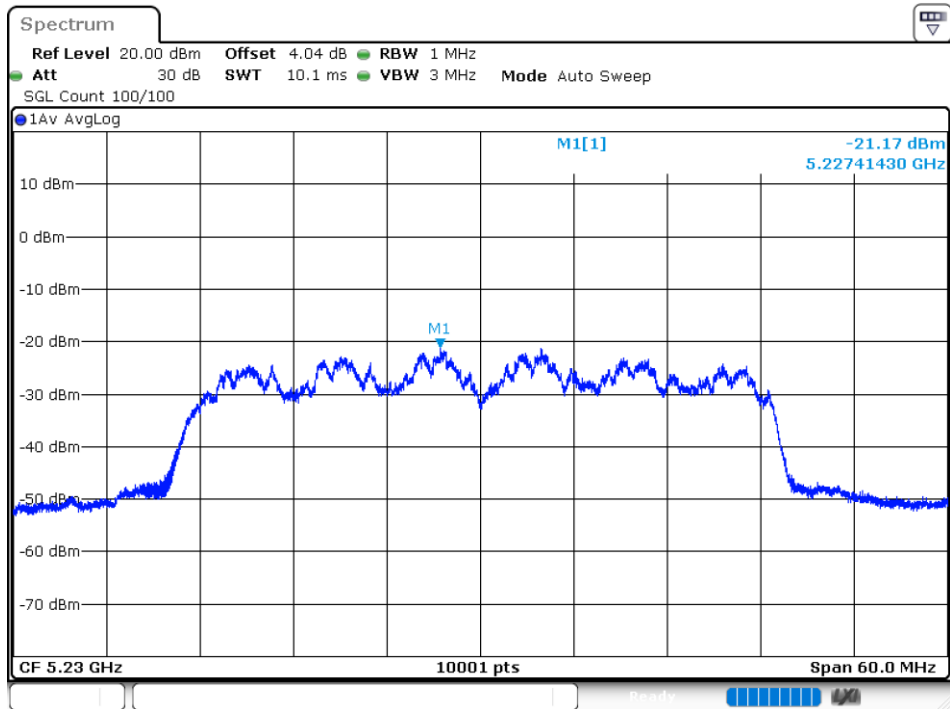
PSD NVNT ac20 5240MHz Ant1



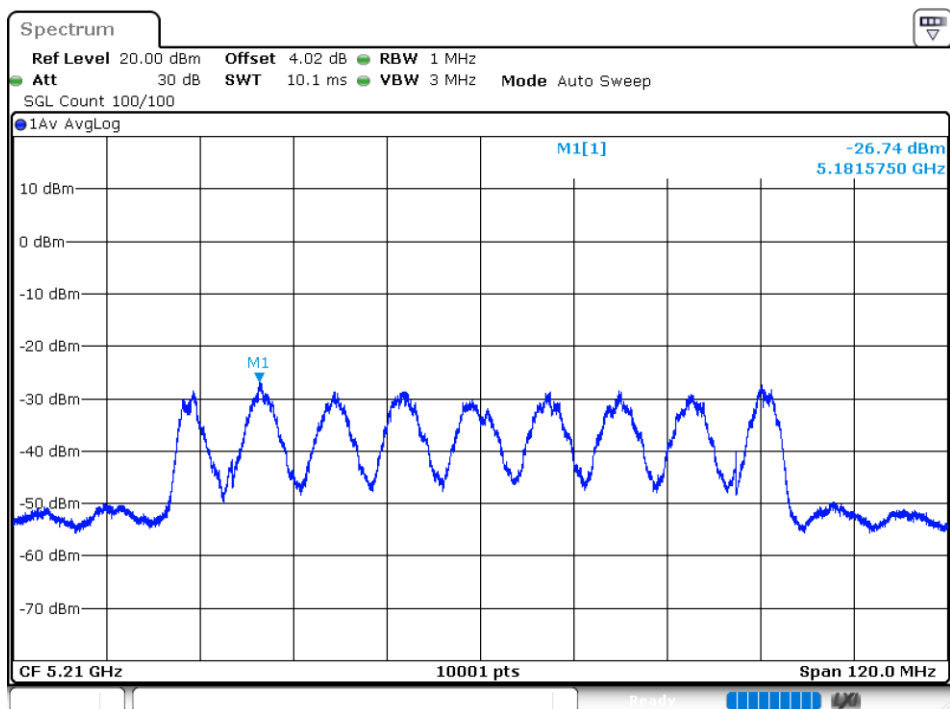
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1

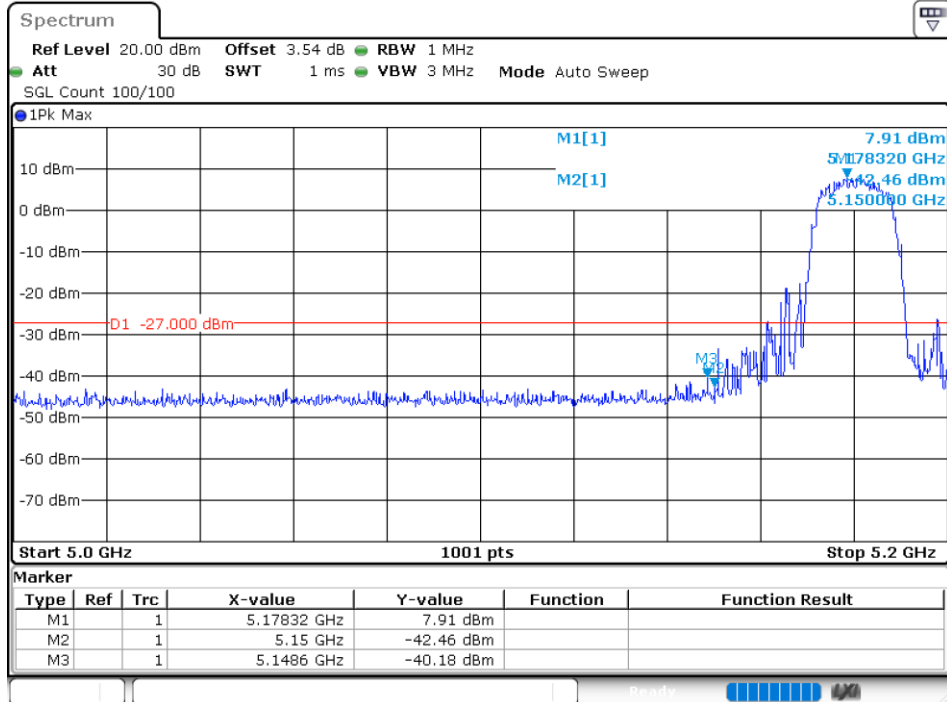


Band Edge

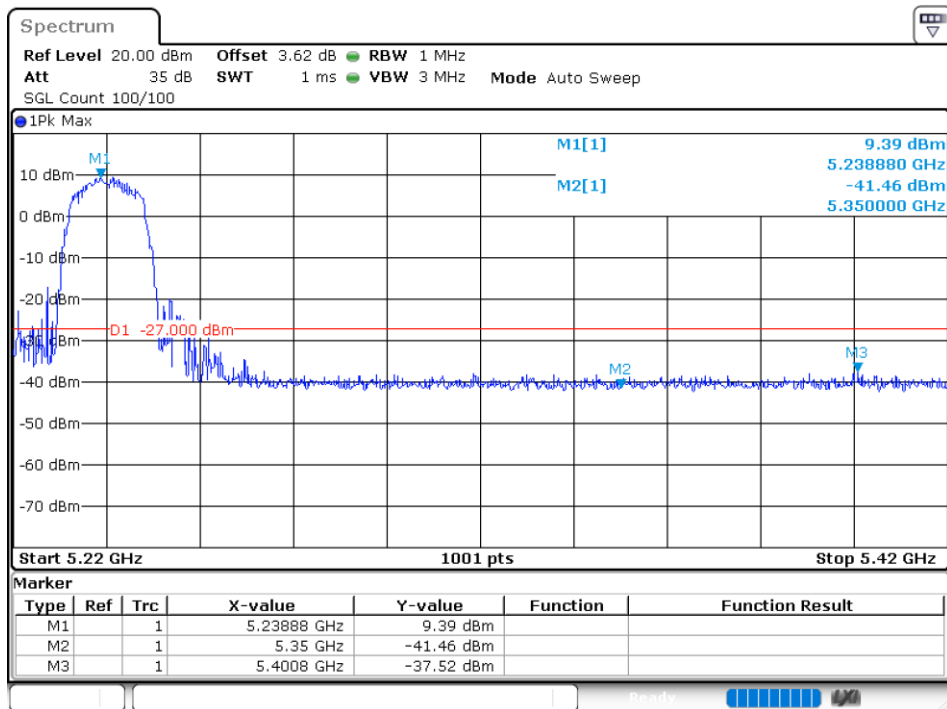
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-40.17	-27	Pass
NVNT	a	5240	Ant1	-37.52	-27	Pass
NVNT	n20	5180	Ant1	-40.28	-27	Pass
NVNT	n20	5240	Ant1	-43.37	-27	Pass
NVNT	n40	5190	Ant1	-33.23	-27	Pass
NVNT	n40	5230	Ant1	-43.1	-27	Pass
NVNT	ac20	5180	Ant1	-38.07	-27	Pass
NVNT	ac20	5240	Ant1	-42.48	-27	Pass
NVNT	ac40	5190	Ant1	-29.57	-27	Pass
NVNT	ac40	5230	Ant1	-43.43	-27	Pass
NVNT	ac80	5210	Ant1	-46.46	-27	Pass
NVNT	ac80	5210	Ant1	-29.06	-27	Pass

Test Graphs

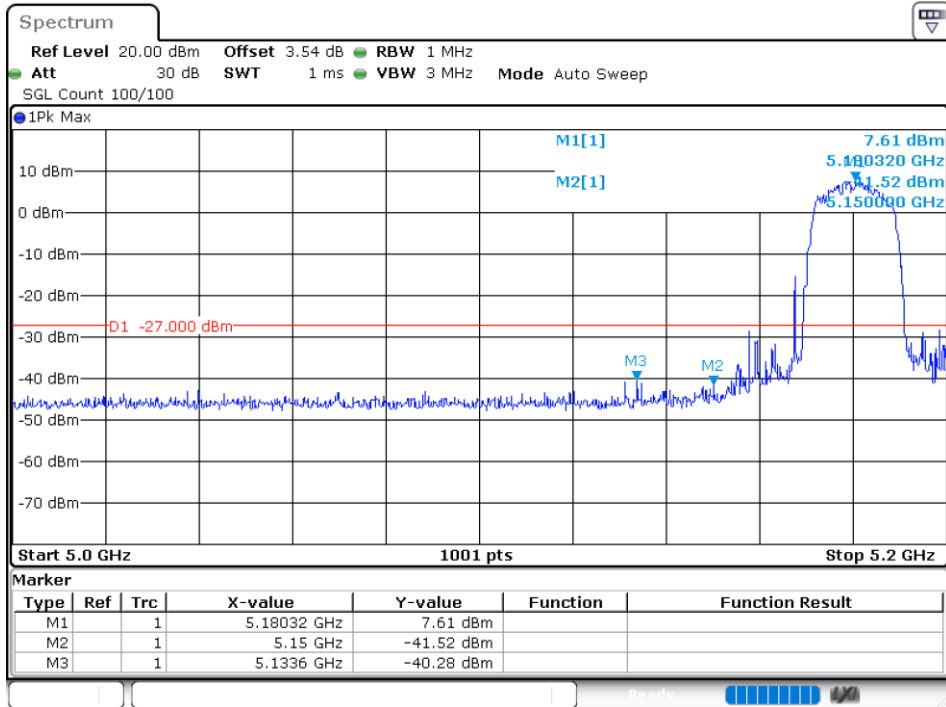
Band Edge NVNT a 5180MHz Low Ant1



Band Edge NVNT a 5240MHz High Ant1



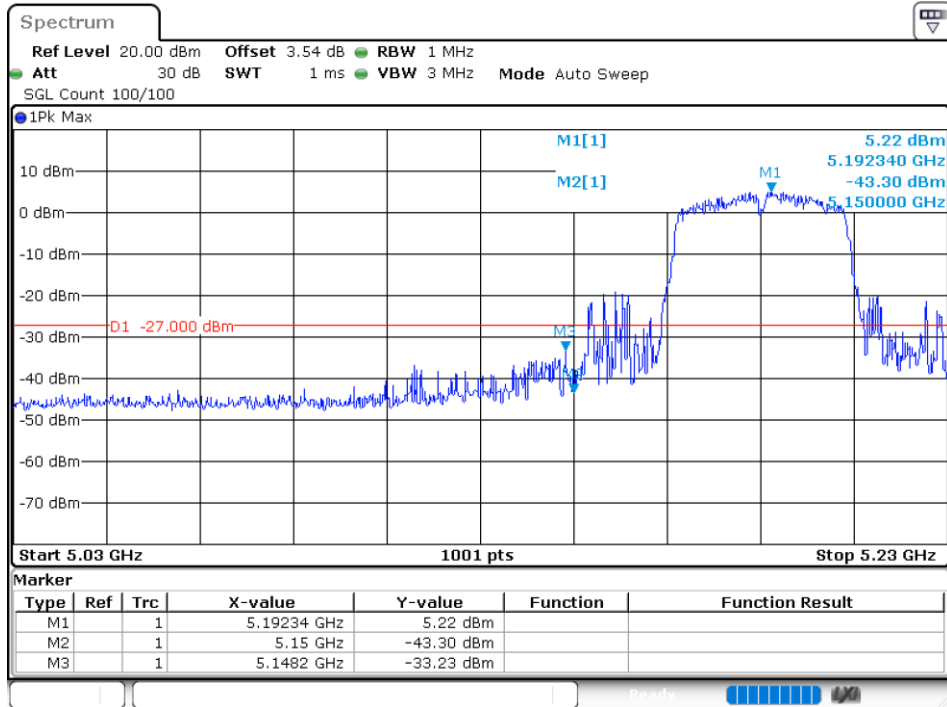
Band Edge NVNT n20 5180MHz Low Ant1



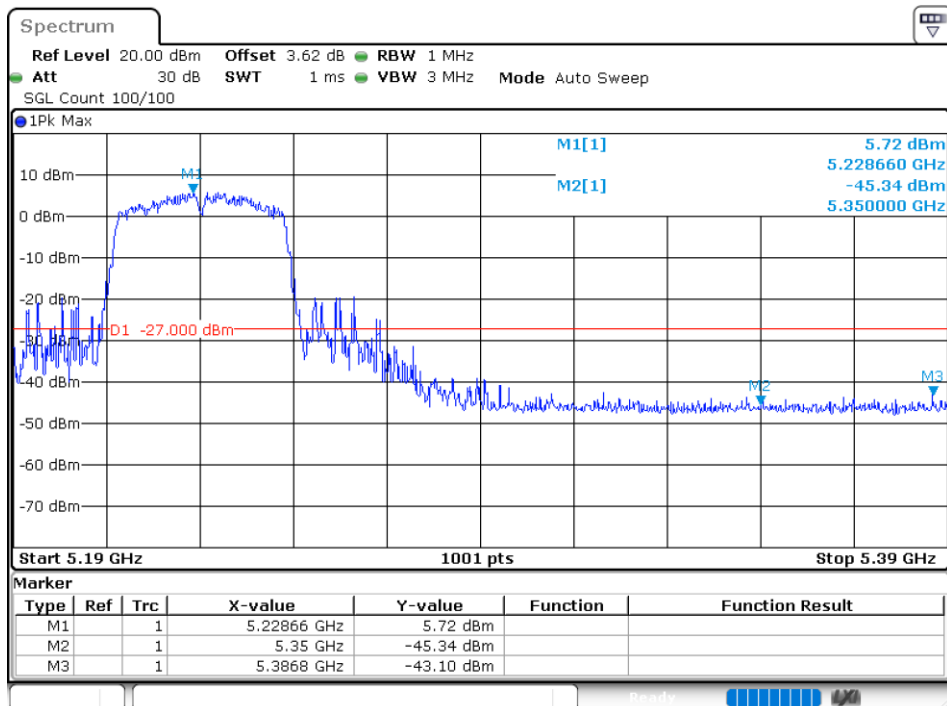
Band Edge NVNT n20 5240MHz High Ant1



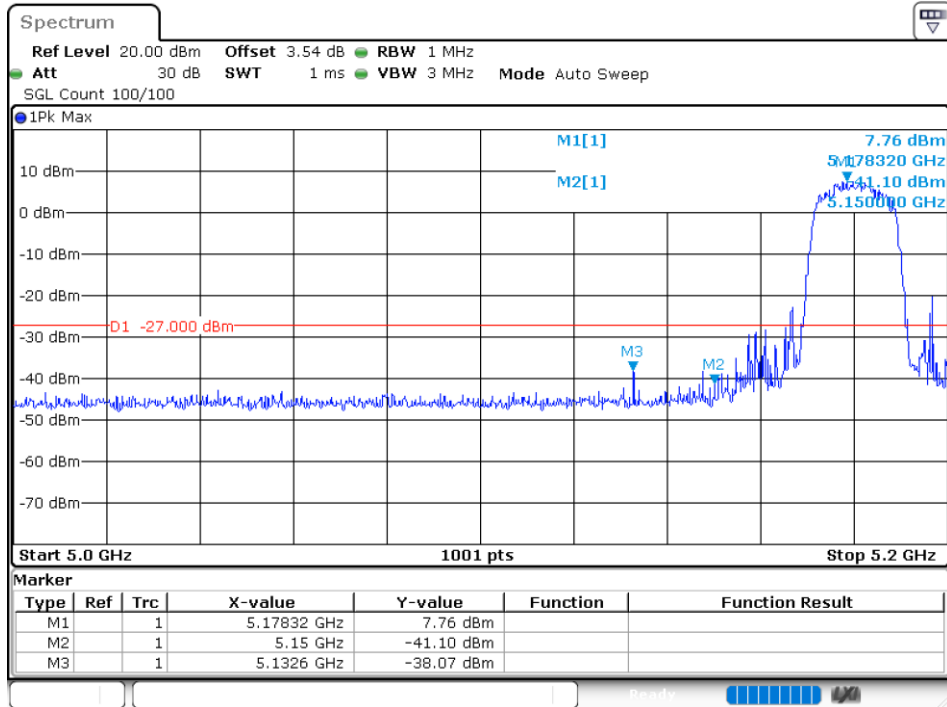
Band Edge NVNT n40 5190MHz Low Ant1



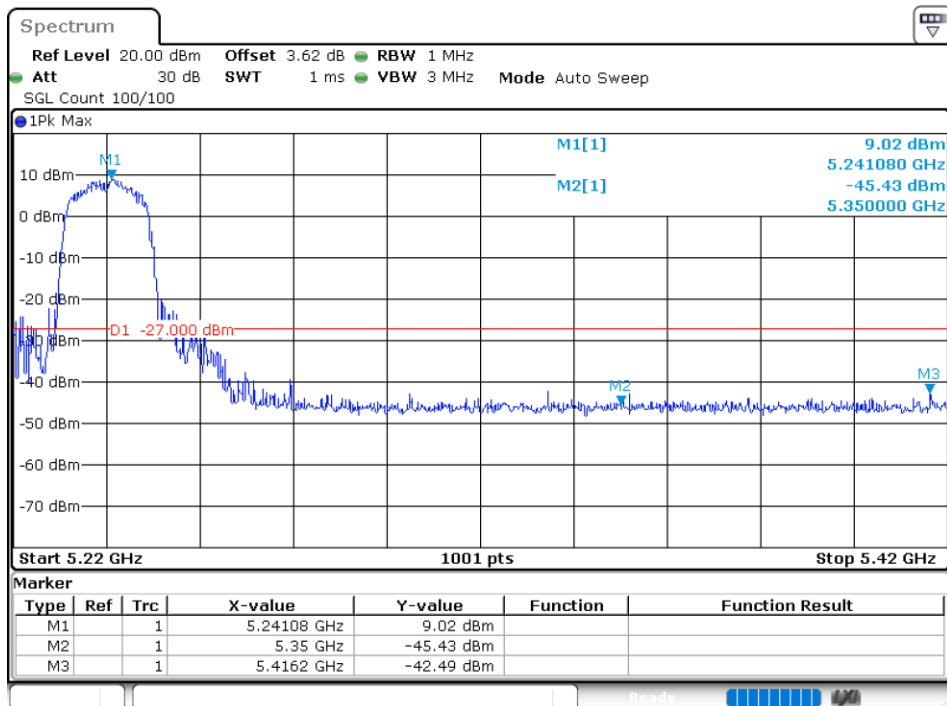
Band Edge NVNT n40 5230MHz High Ant1



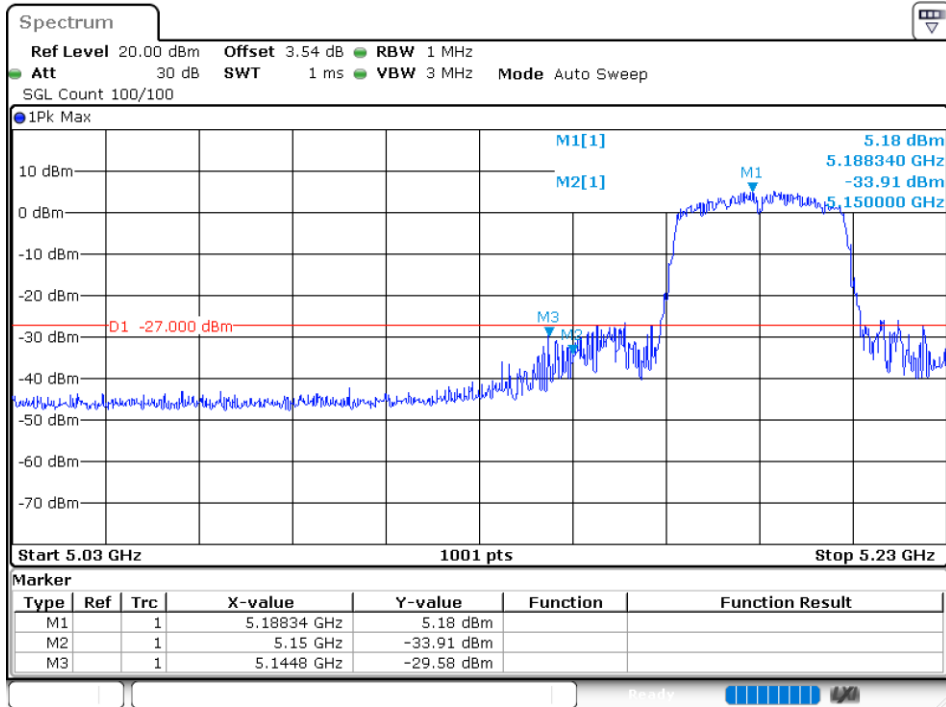
Band Edge NVNT ac20 5180MHz Low Ant1



Band Edge NVNT ac20 5240MHz High Ant1



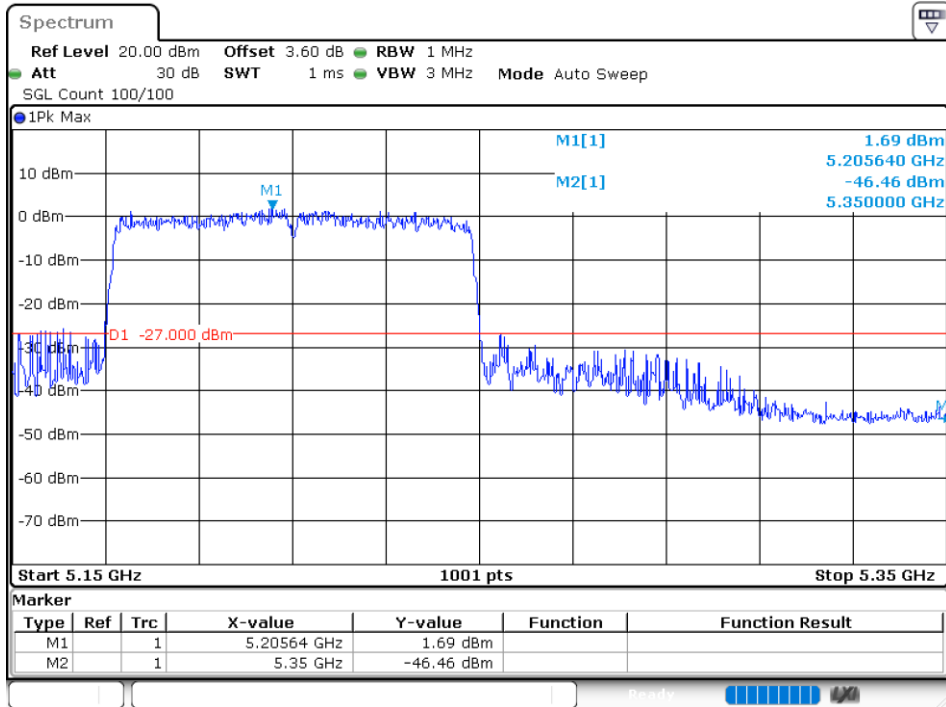
Band Edge NVNT ac40 5190MHz Low Ant1



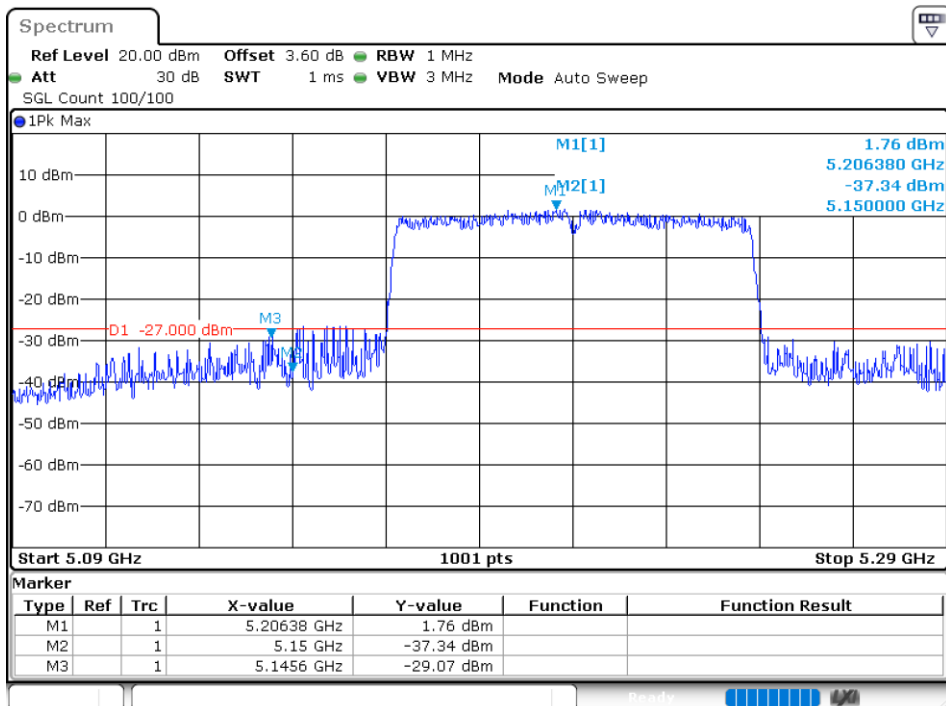
Band Edge NVNT ac40 5230MHz High Ant1



Band Edge NVNT ac80 5210MHz High Ant1



Band Edge NVNT ac80 5210MHz Low Ant1

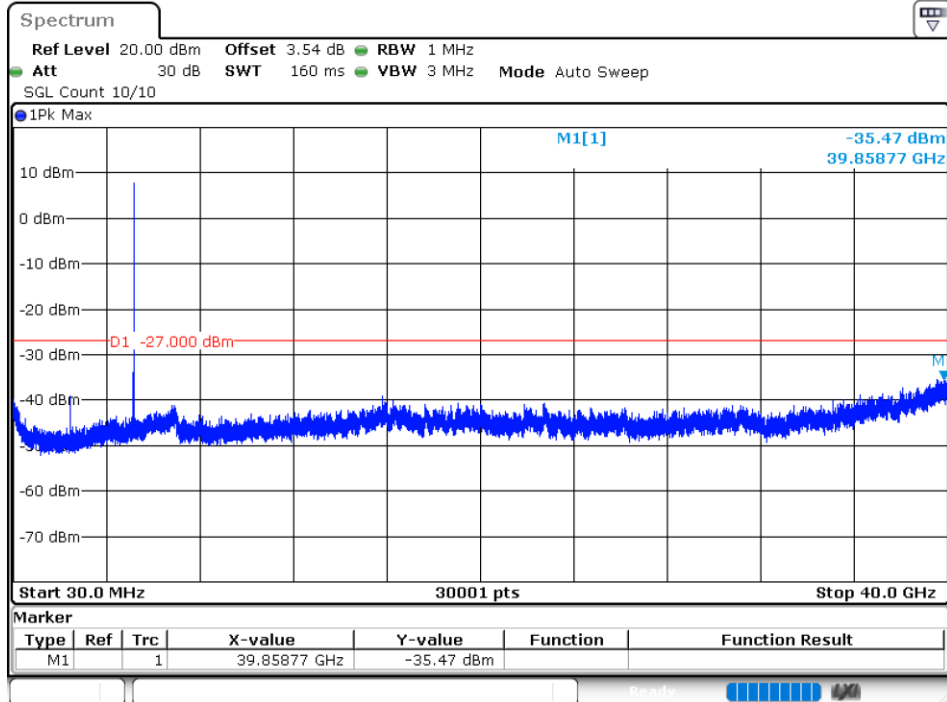


Conducted RF Spurious Emission

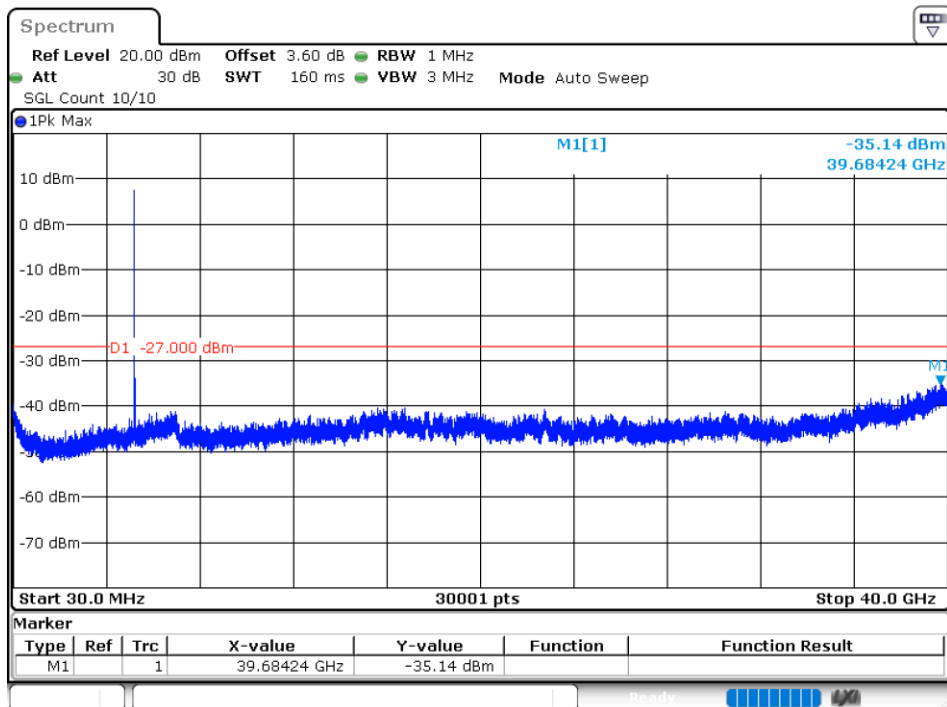
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-35.47	-27	Pass
NVNT	a	5200	Ant1	-35.14	-27	Pass
NVNT	a	5240	Ant1	-34.97	-27	Pass
NVNT	n20	5180	Ant1	-35.28	-27	Pass
NVNT	n20	5200	Ant1	-34.82	-27	Pass
NVNT	n20	5240	Ant1	-35.36	-27	Pass
NVNT	n40	5190	Ant1	-34.94	-27	Pass
NVNT	n40	5230	Ant1	-34.99	-27	Pass
NVNT	ac20	5180	Ant1	-34.75	-27	Pass
NVNT	ac20	5200	Ant1	-34.46	-27	Pass
NVNT	ac20	5240	Ant1	-34.77	-27	Pass
NVNT	ac40	5190	Ant1	-35.1	-27	Pass
NVNT	ac40	5230	Ant1	-34.25	-27	Pass
NVNT	ac80	5210	Ant1	-34.48	-27	Pass

Test Graphs

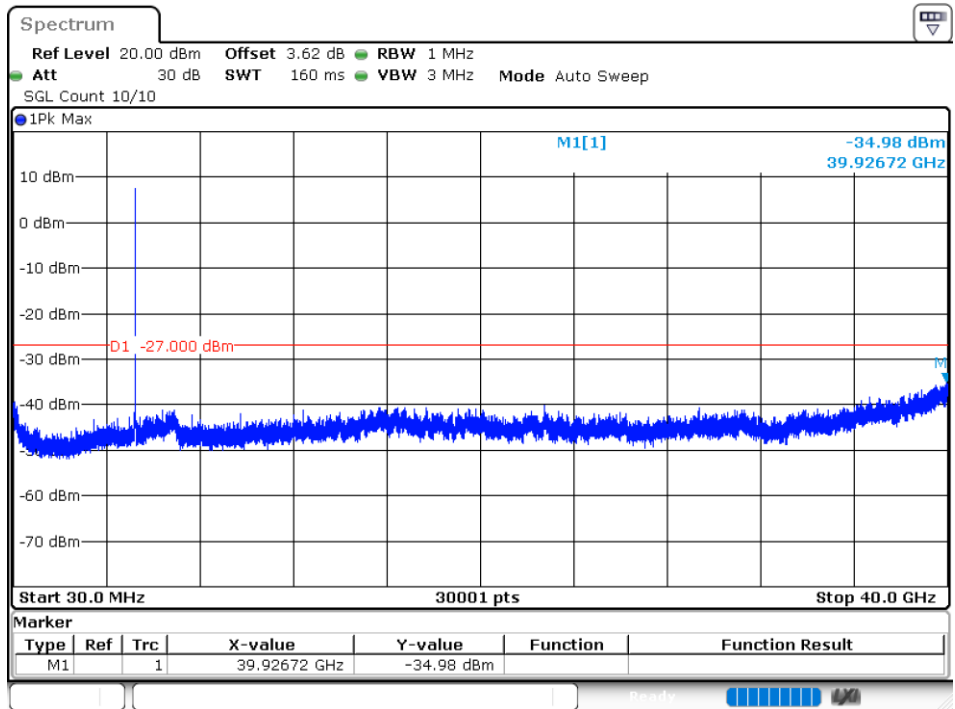
Tx. Spurious NVNT a 5180MHz Ant1 Emission



Tx. Spurious NVNT a 5200MHz Ant1 Emission



Tx. Spurious NVNT a 5240MHz Ant1 Emission



Tx. Spurious NVNT n20 5180MHz Ant1 Emission

