

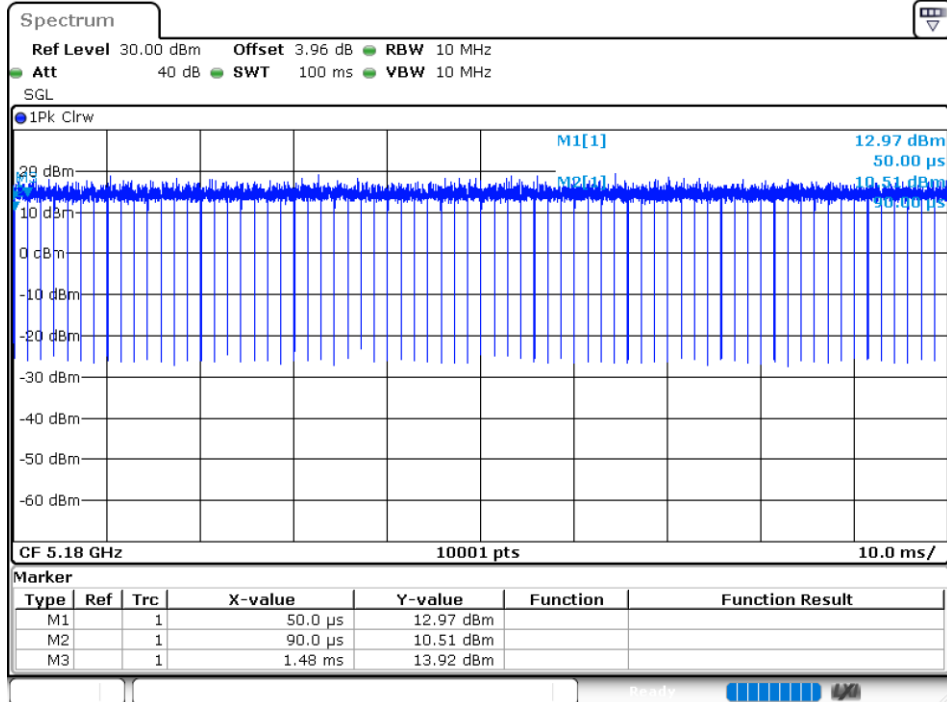
5.2G WIFI:

Duty Cycle

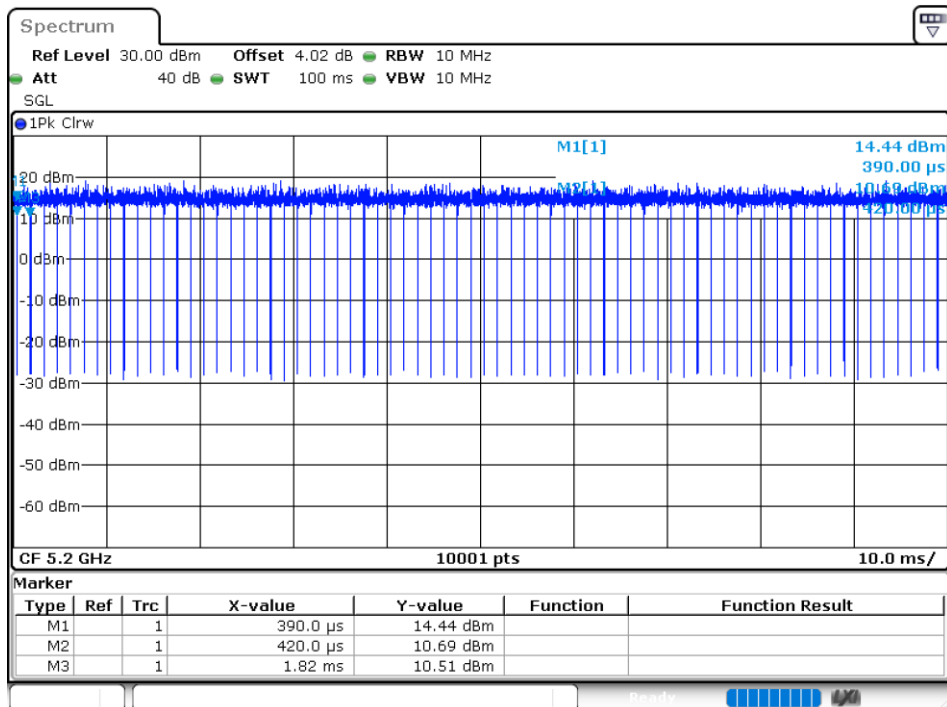
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	98.17	0.08	0.72
NVNT	a	5200	Ant1	98.2	0.08	0.71
NVNT	a	5240	Ant1	98.2	0.08	0.72
NVNT	n20	5180	Ant1	98.06	0.09	0.77
NVNT	n20	5200	Ant1	98.06	0.09	0.77
NVNT	n20	5240	Ant1	98.06	0.09	0.77
NVNT	n40	5190	Ant1	96.32	0.16	1.54
NVNT	n40	5230	Ant1	96.35	0.16	1.54
NVNT	ac20	5180	Ant1	98.09	0.08	0.76
NVNT	ac20	5200	Ant1	98.05	0.09	0.76
NVNT	ac20	5240	Ant1	98.1	0.08	0.76
NVNT	ac40	5190	Ant1	96.32	0.16	1.54
NVNT	ac40	5230	Ant1	96.38	0.16	1.54
NVNT	ac80	5210	Ant1	93.14	0.31	3.03

Test Graphs

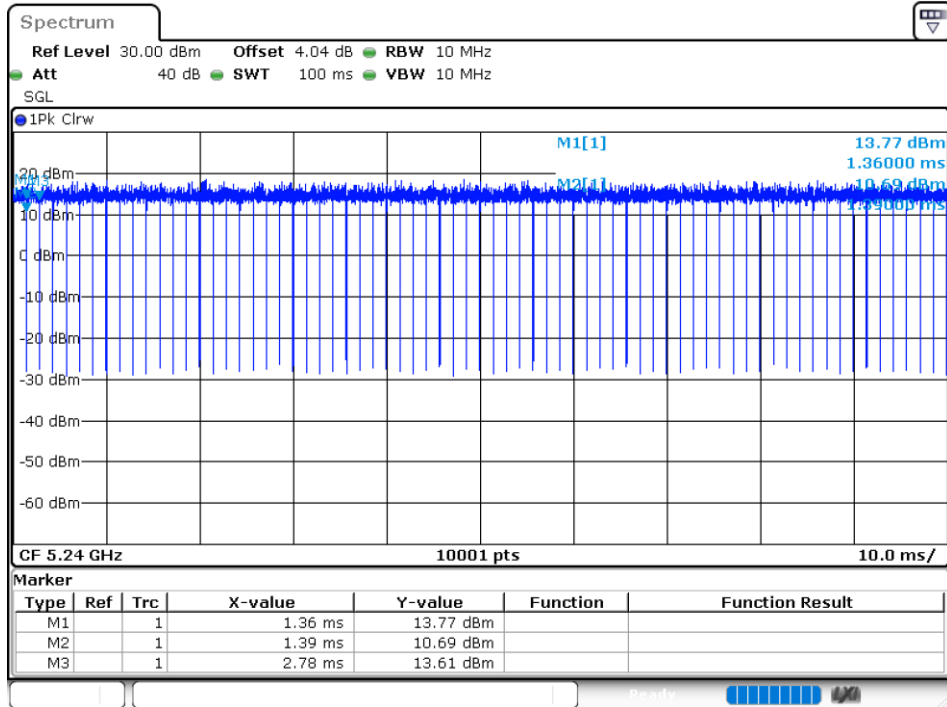
Duty Cycle NVNT a 5180MHz Ant1



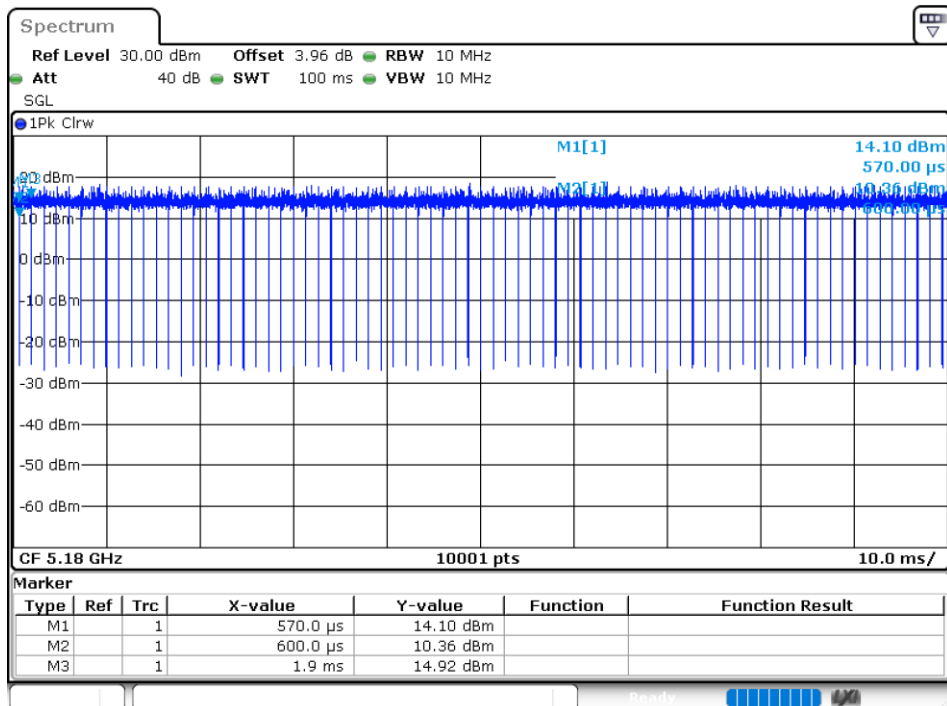
Duty Cycle NVNT a 5200MHz Ant1



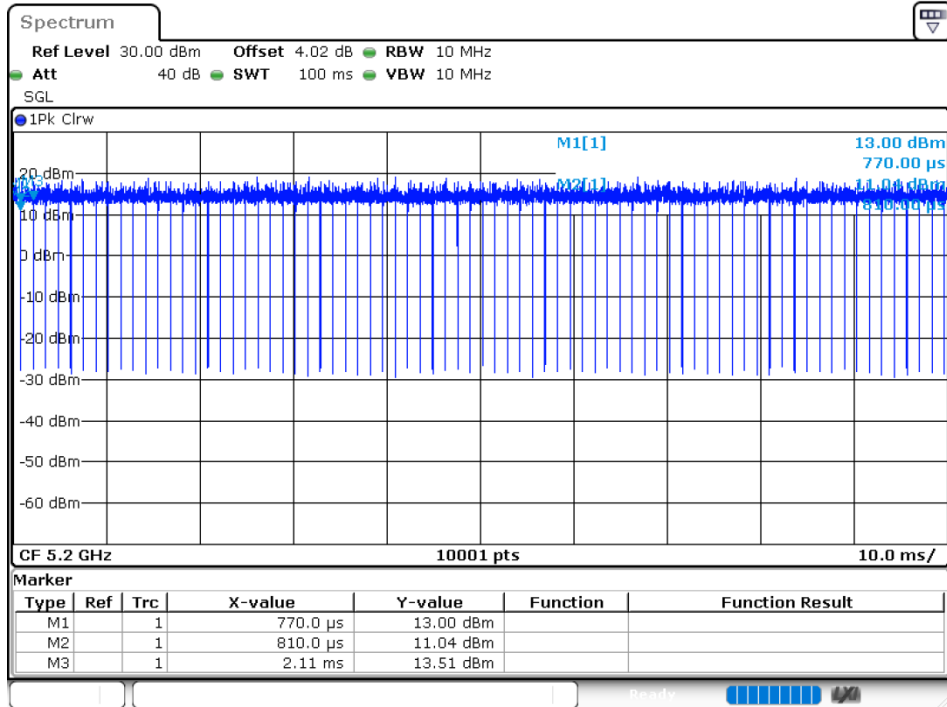
Duty Cycle NVNT a 5240MHz Ant1



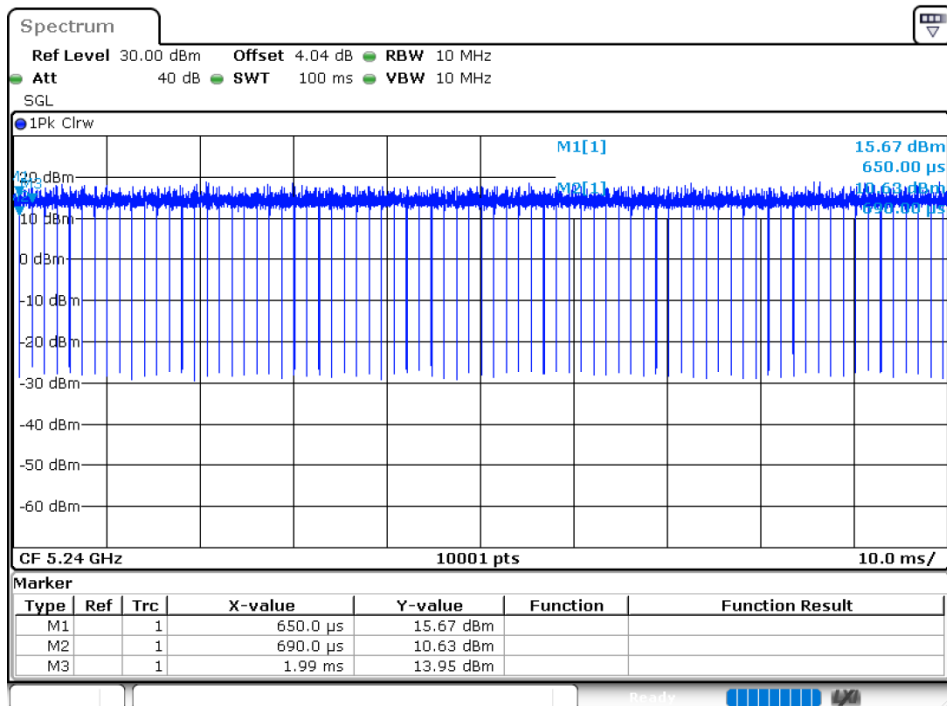
Duty Cycle NVNT n20 5180MHz Ant1



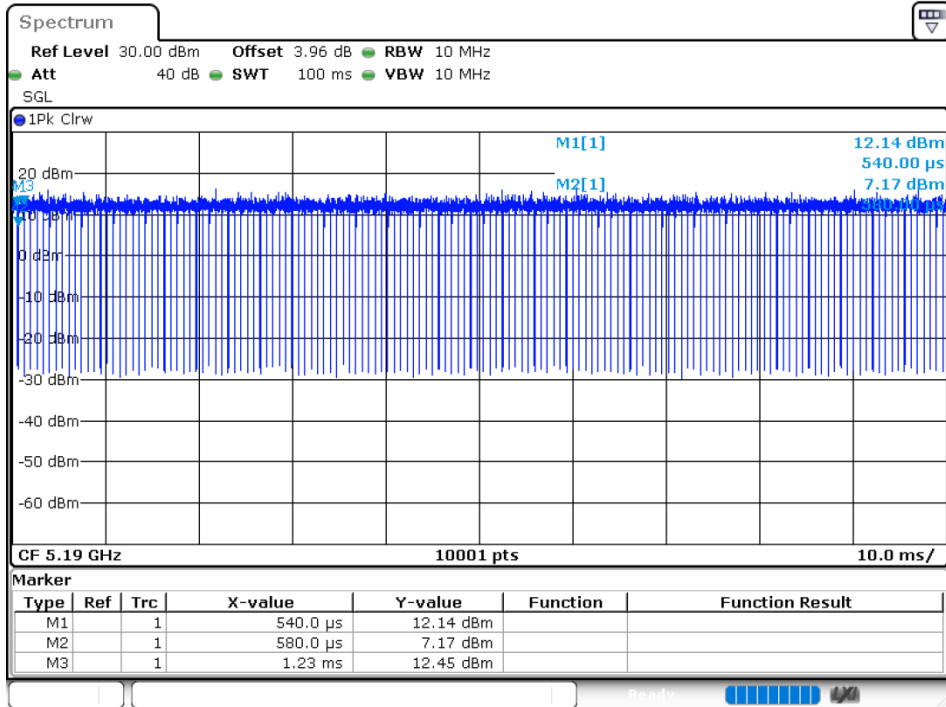
Duty Cycle NVNT n20 5200MHz Ant1



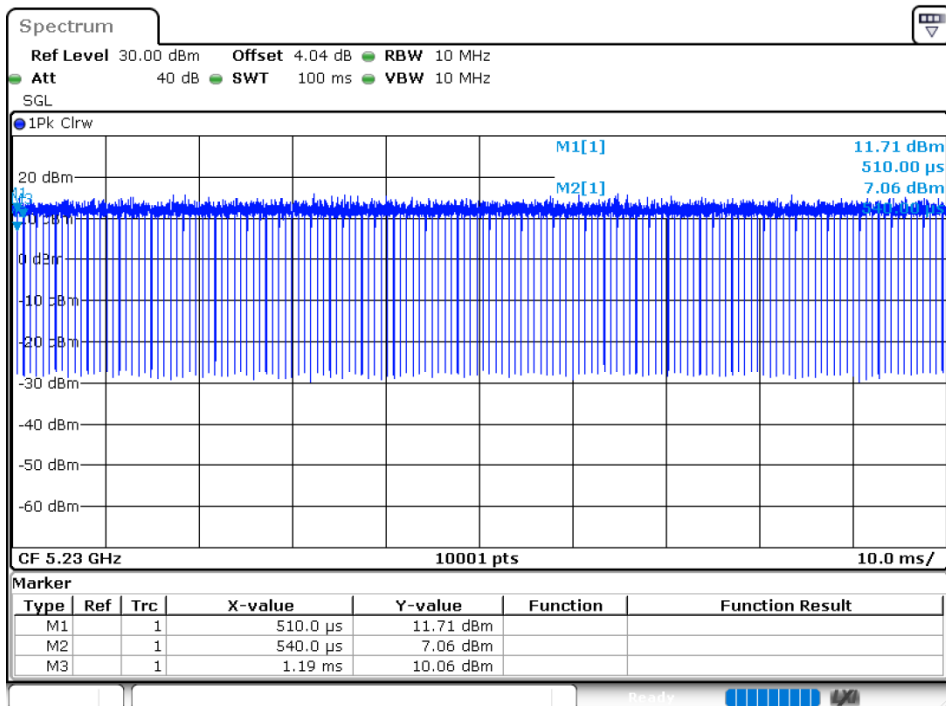
Duty Cycle NVNT n20 5240MHz Ant1



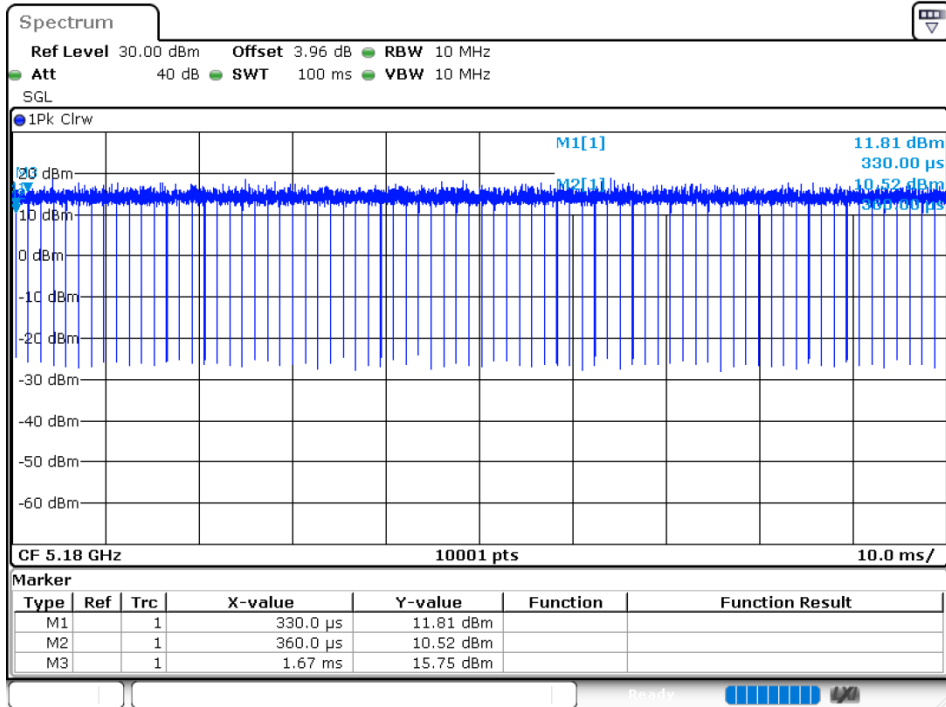
Duty Cycle NVNT n40 5190MHz Ant1



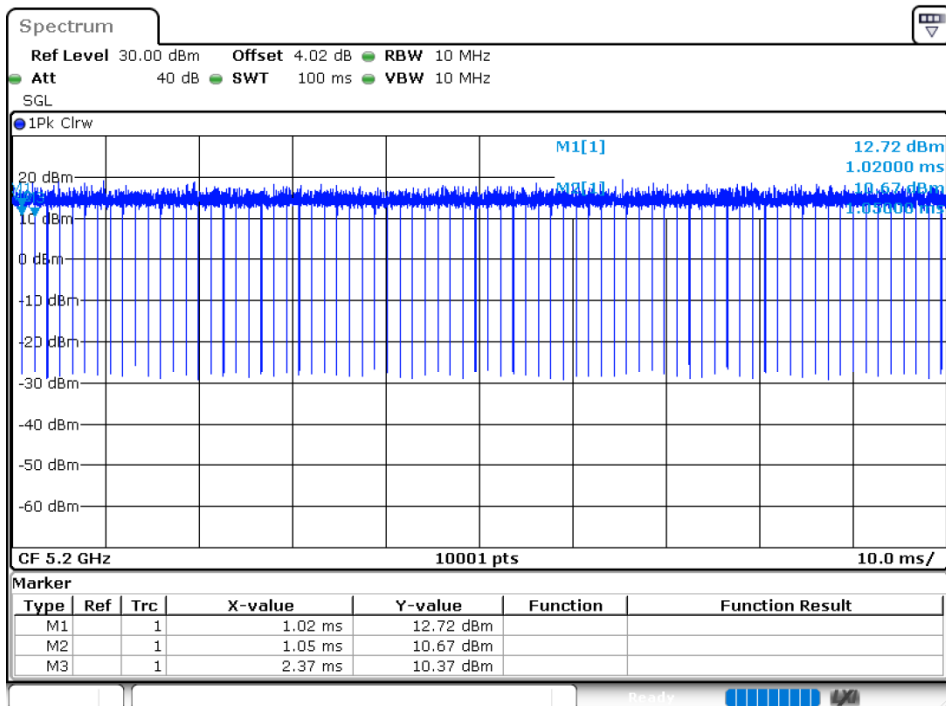
Duty Cycle NVNT n40 5230MHz Ant1



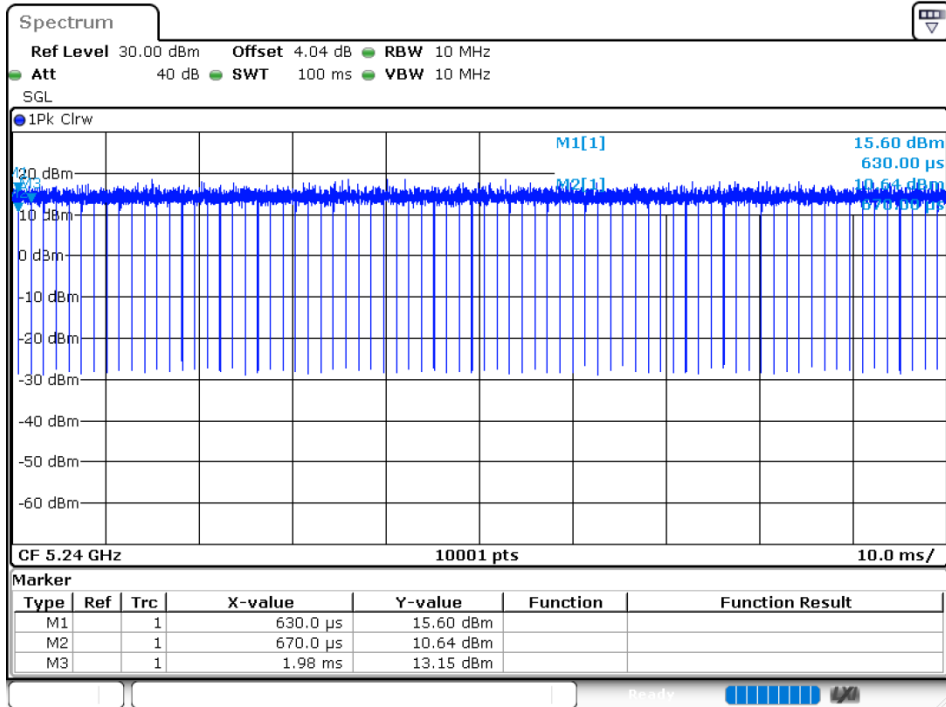
Duty Cycle NVNT ac20 5180MHz Ant1



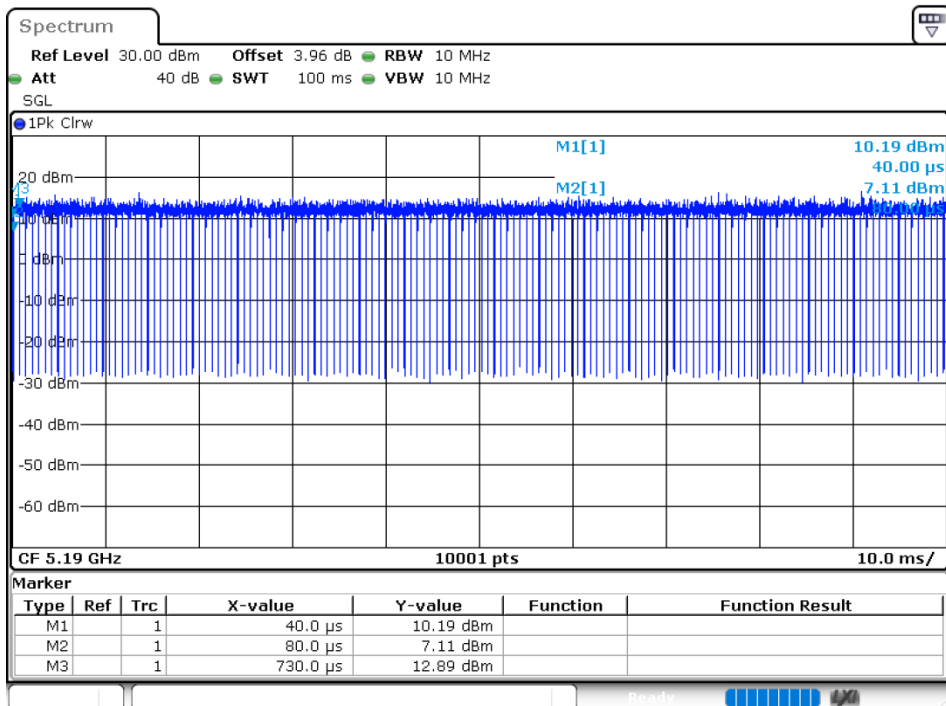
Duty Cycle NVNT ac20 5200MHz Ant1



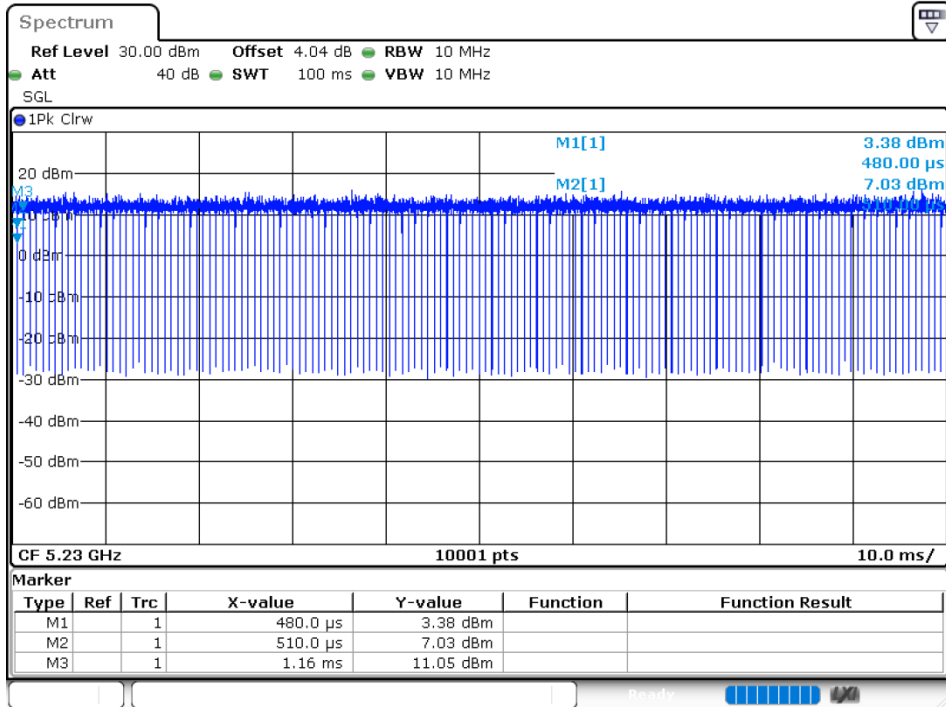
Duty Cycle NVNT ac20 5240MHz Ant1



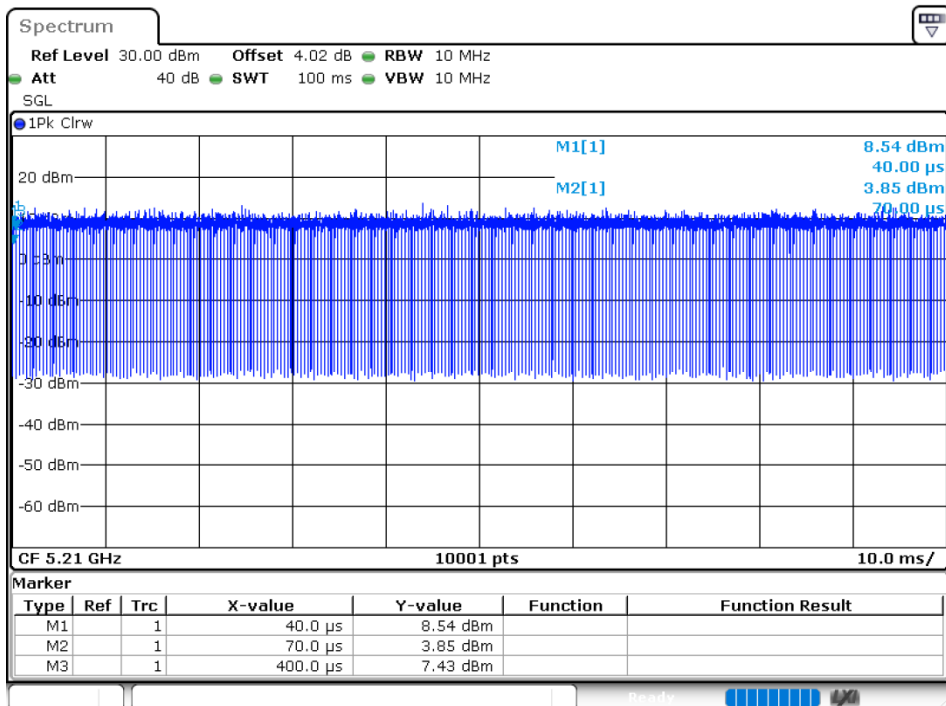
Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Maximum Conducted Output Power

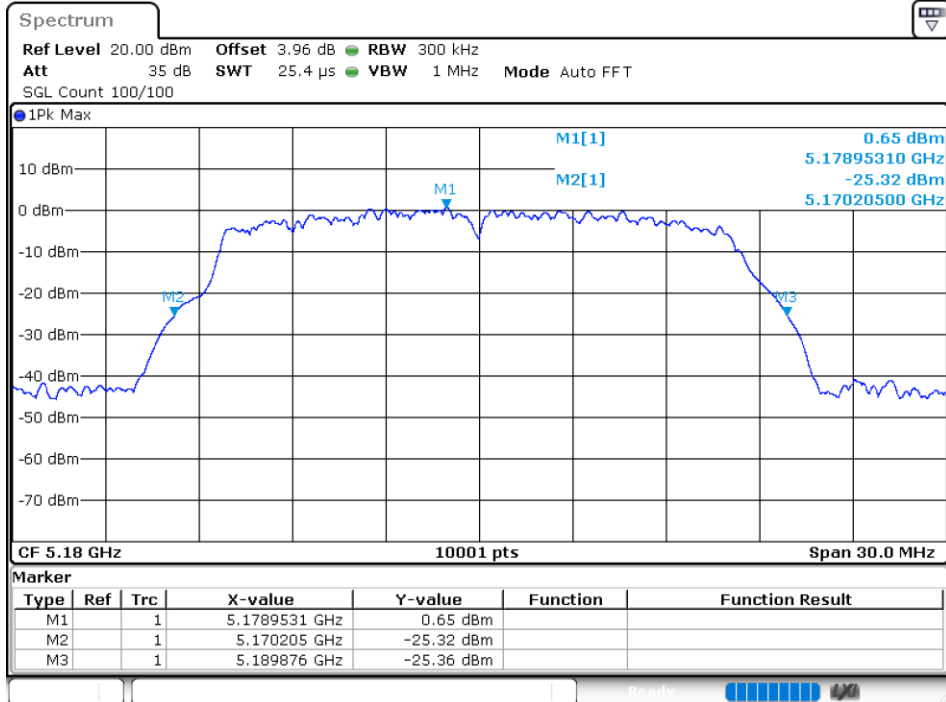
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.27	0.08	11.35	24	Pass
NVNT	a	5200	Ant1	11.02	0.08	11.1	24	Pass
NVNT	a	5240	Ant1	10.53	0.08	10.61	24	Pass
NVNT	n20	5180	Ant1	11.18	0.09	11.27	24	Pass
NVNT	n20	5200	Ant1	10.95	0.09	11.04	24	Pass
NVNT	n20	5240	Ant1	10.37	0.09	10.46	24	Pass
NVNT	n40	5190	Ant1	11.14	0.16	11.3	24	Pass
NVNT	n40	5230	Ant1	10.64	0.16	10.8	24	Pass
NVNT	ac20	5180	Ant1	11.13	0.08	11.21	24	Pass
NVNT	ac20	5200	Ant1	10.97	0.09	11.06	24	Pass
NVNT	ac20	5240	Ant1	10.36	0.08	10.44	24	Pass
NVNT	ac40	5190	Ant1	11.13	0.16	11.29	24	Pass
NVNT	ac40	5230	Ant1	10.67	0.16	10.83	24	Pass
NVNT	ac80	5210	Ant1	10.8	0.31	11.11	24	Pass

-26dB Bandwidth

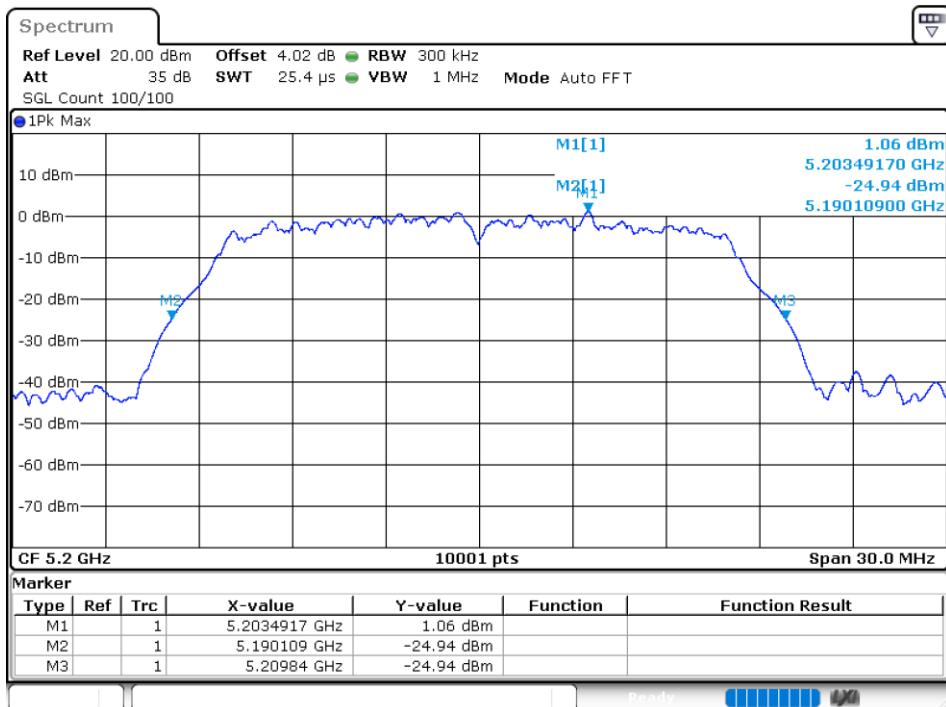
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.671	Pass
NVNT	a	5200	Ant1	19.731	Pass
NVNT	a	5240	Ant1	19.614	Pass
NVNT	n20	5180	Ant1	20.109	Pass
NVNT	n20	5200	Ant1	19.977	Pass
NVNT	n20	5240	Ant1	20.34	Pass
NVNT	n40	5190	Ant1	41.004	Pass
NVNT	n40	5230	Ant1	40.86	Pass
NVNT	ac20	5180	Ant1	20.181	Pass
NVNT	ac20	5200	Ant1	20.115	Pass
NVNT	ac20	5240	Ant1	19.977	Pass
NVNT	ac40	5190	Ant1	41.064	Pass
NVNT	ac40	5230	Ant1	40.734	Pass
NVNT	ac80	5210	Ant1	81.168	Pass

Test Graphs

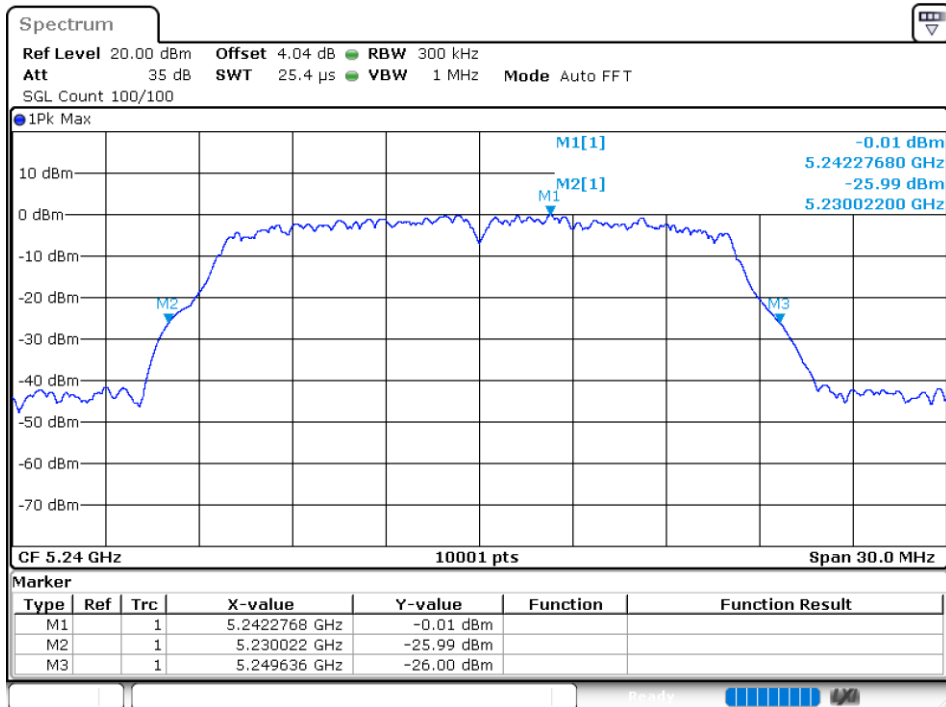
-26dB Bandwidth NVNT a 5180MHz Ant1



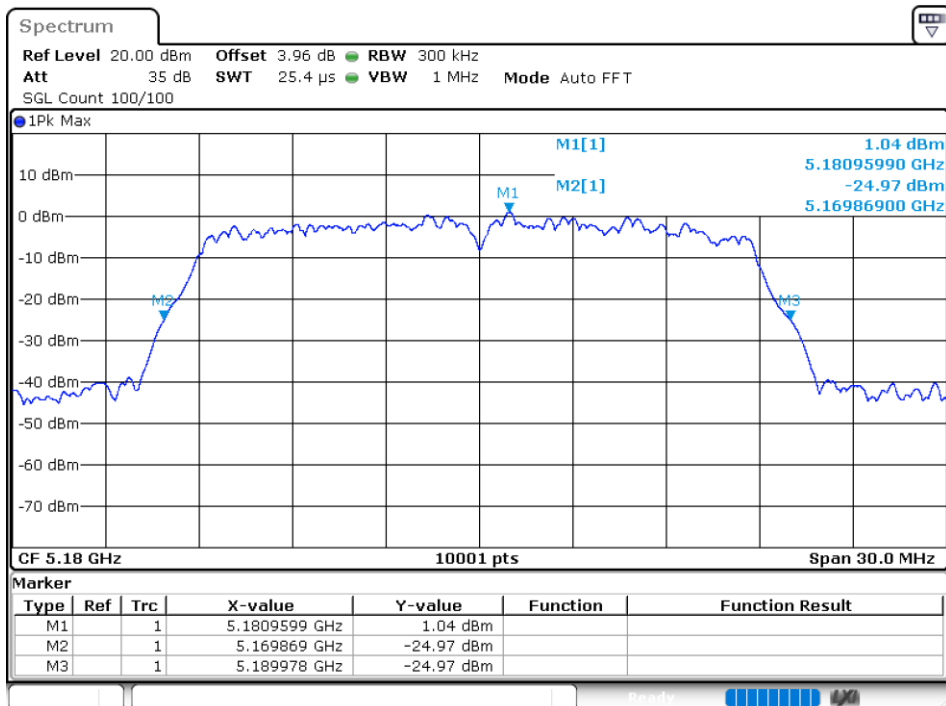
-26dB Bandwidth NVNT a 5200MHz Ant1



-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1

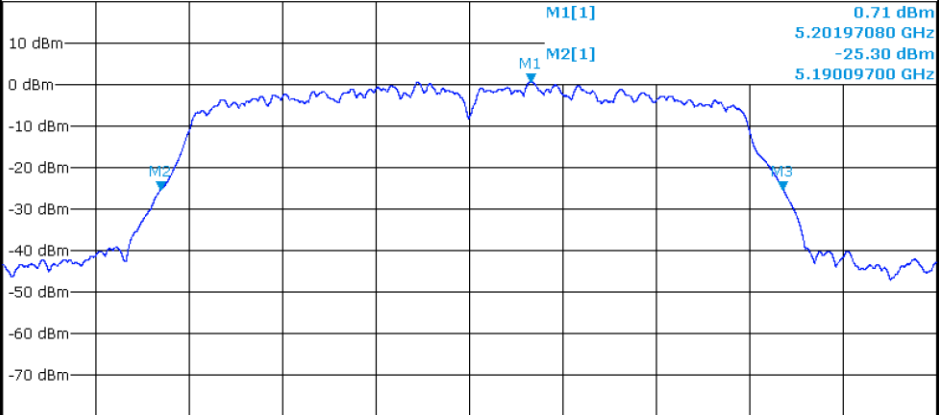


-26dB Bandwidth NVNT n20 5200MHz Ant1

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

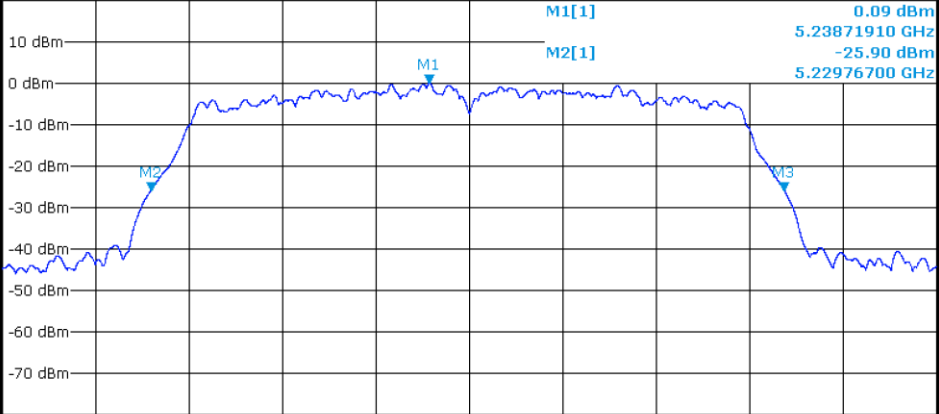
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2019708 GHz	0.71 dBm		
M2		1	5.190097 GHz	-25.30 dBm		
M3		1	5.210074 GHz	-25.29 dBm		

-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

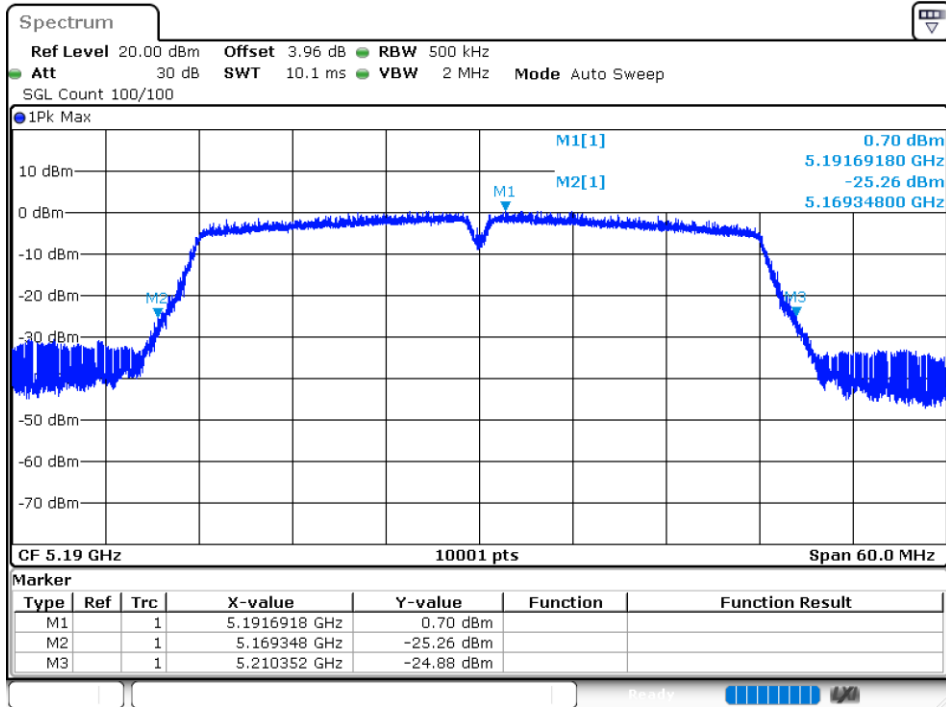
1Pk Max



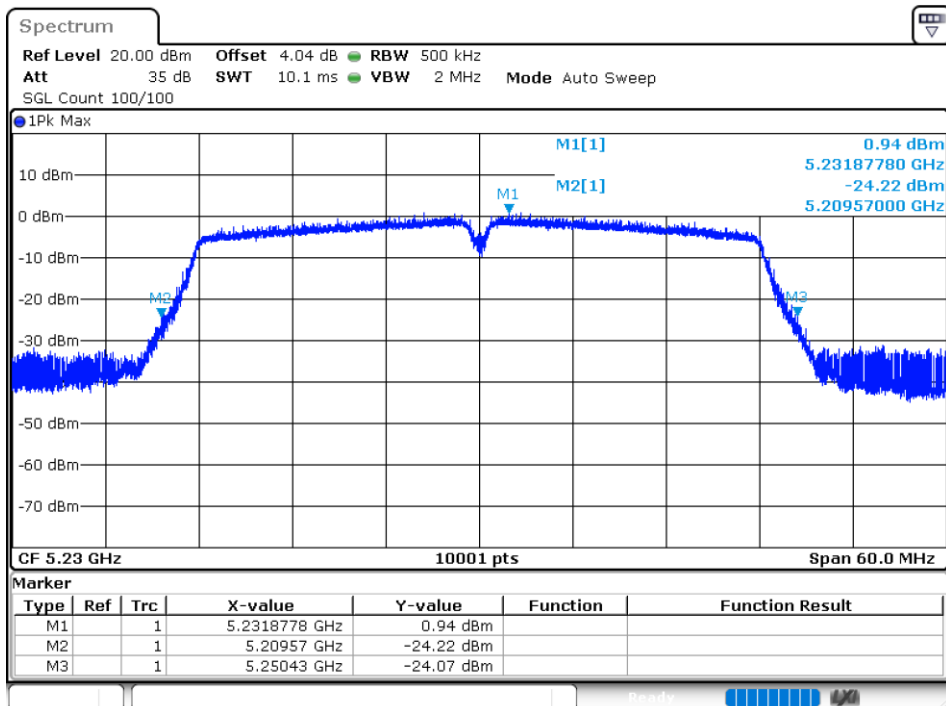
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2387191 GHz	0.09 dBm		
M2		1	5.229767 GHz	-25.90 dBm		
M3		1	5.250107 GHz	-25.92 dBm		

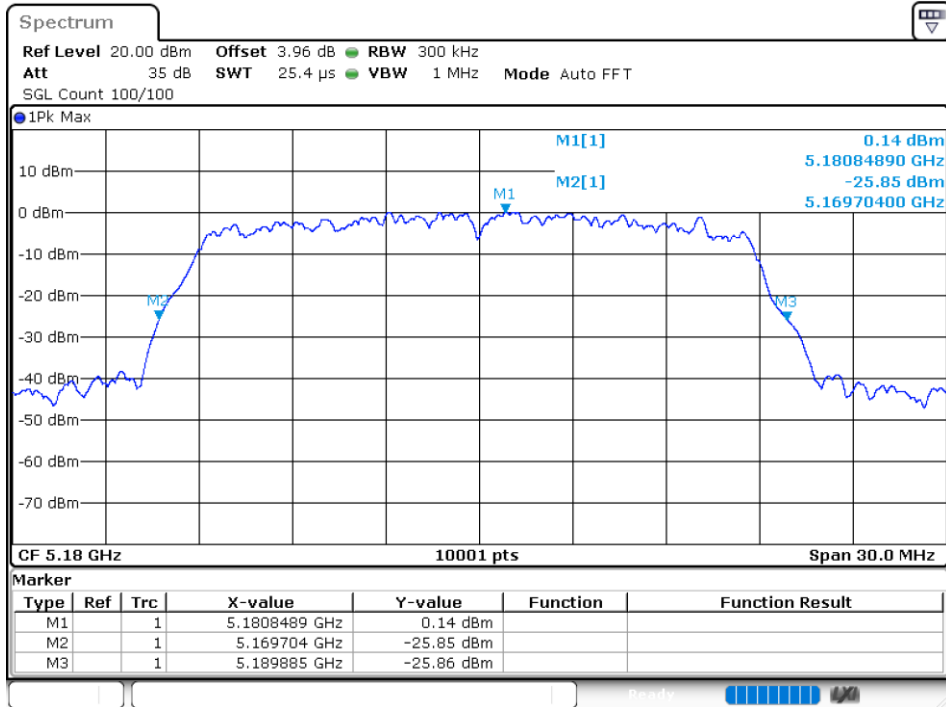
-26dB Bandwidth NVNT n40 5190MHz Ant1



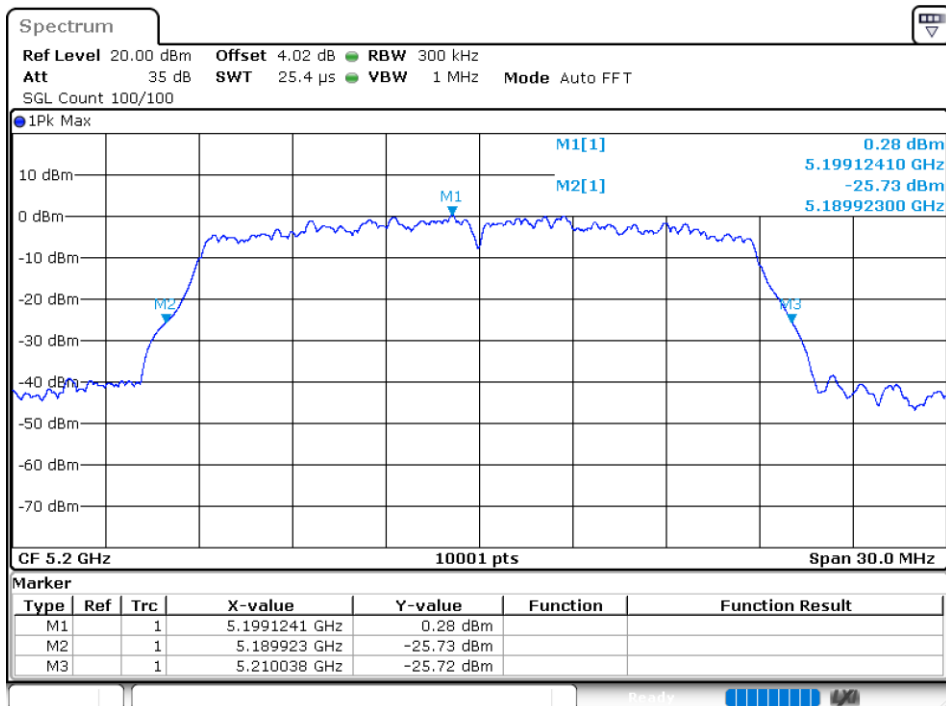
-26dB Bandwidth NVNT n40 5230MHz Ant1



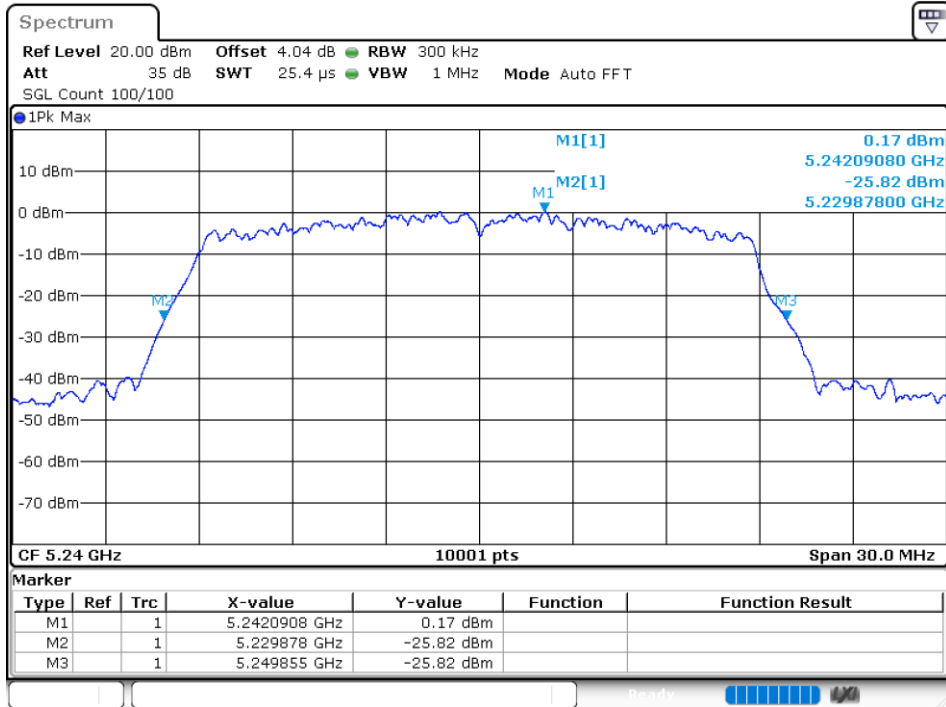
-26dB Bandwidth NVNT ac20 5180MHz Ant1



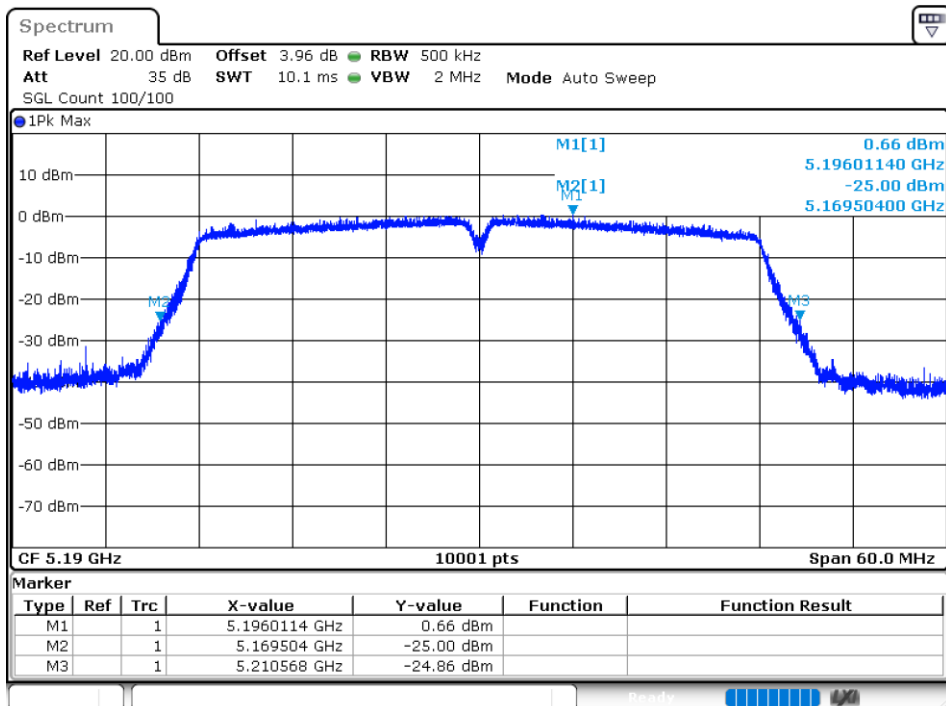
-26dB Bandwidth NVNT ac20 5200MHz Ant1



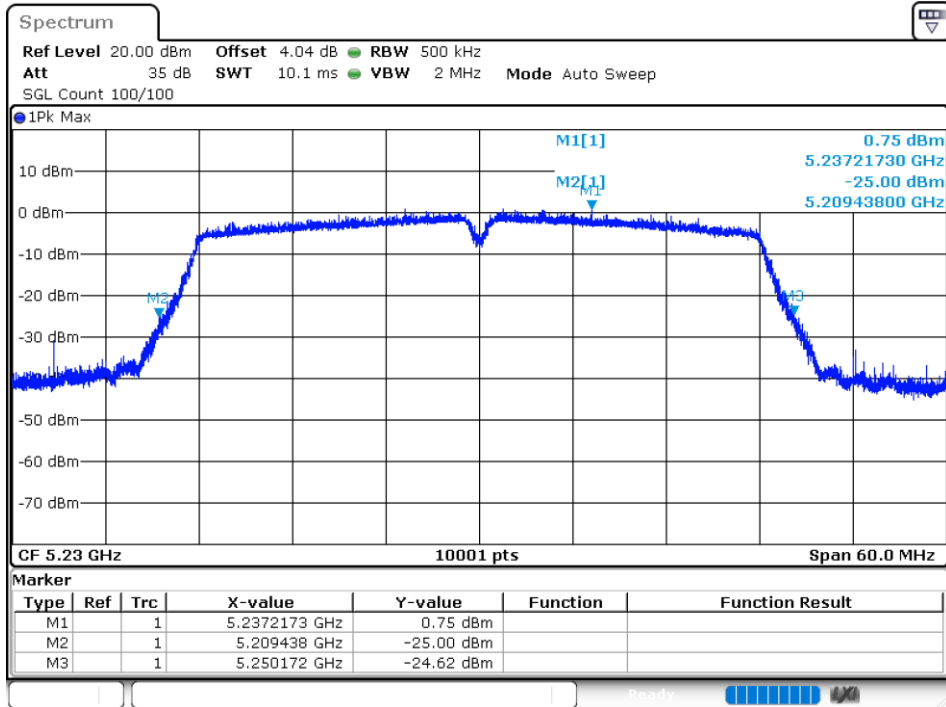
-26dB Bandwidth NVNT ac20 5240MHz Ant1



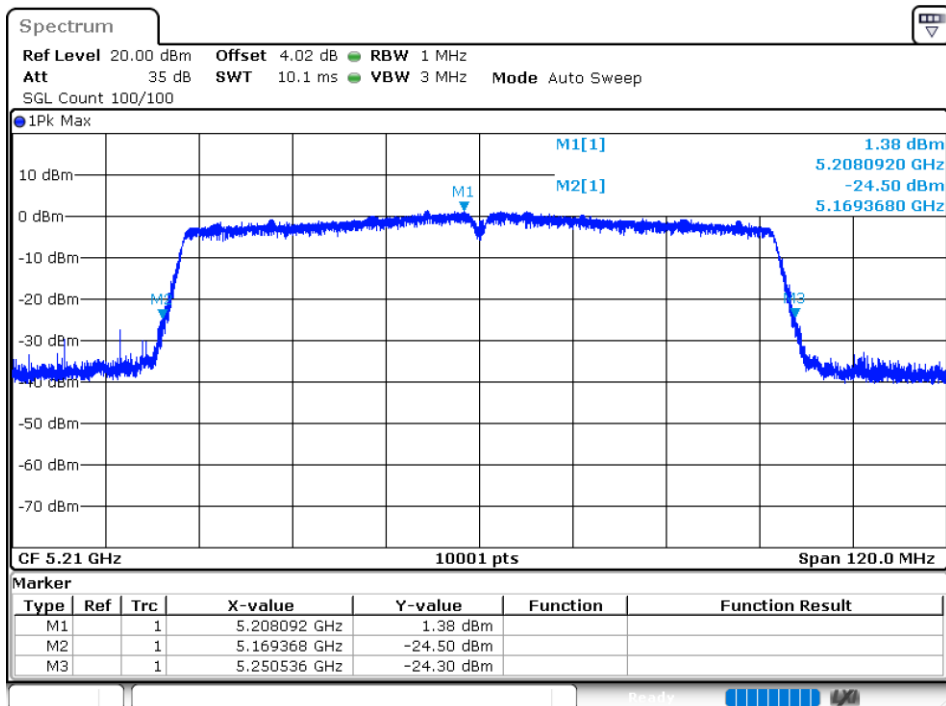
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1

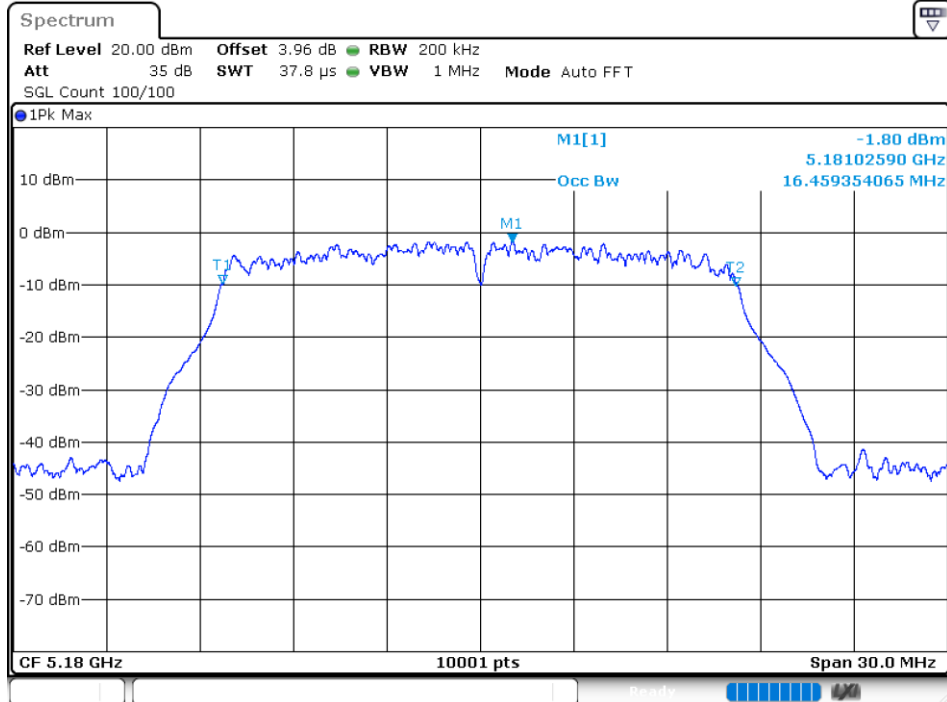


Occupied Channel Bandwidth

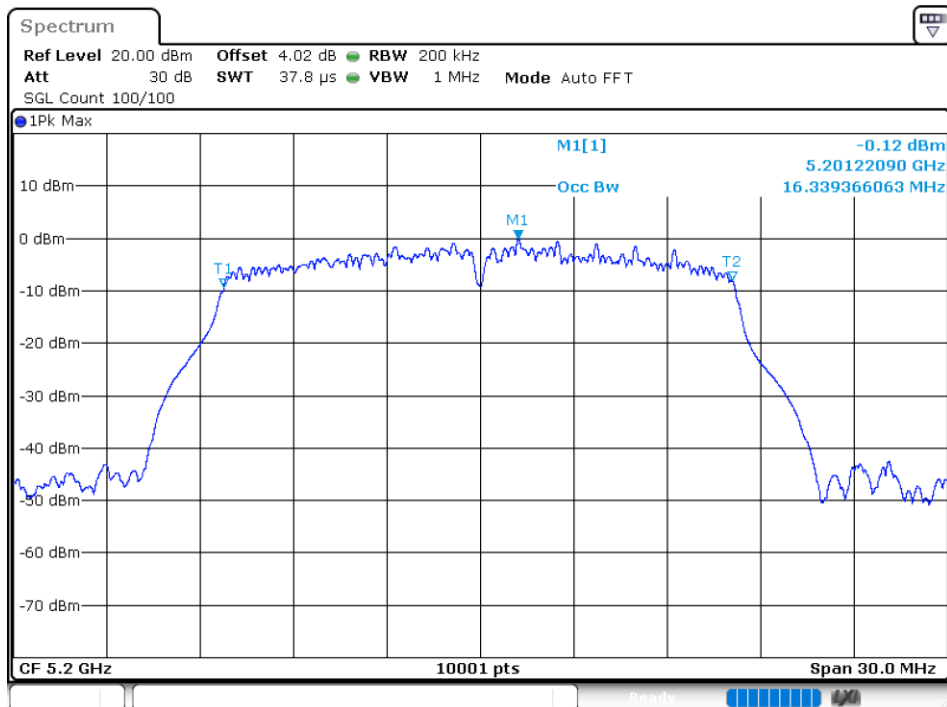
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.459
NVNT	a	5200	Ant1	16.339
NVNT	a	5240	Ant1	16.369
NVNT	n20	5180	Ant1	17.557
NVNT	n20	5200	Ant1	17.569
NVNT	n20	5240	Ant1	17.665
NVNT	n40	5190	Ant1	36.11
NVNT	n40	5230	Ant1	36.056
NVNT	ac20	5180	Ant1	17.53
NVNT	ac20	5200	Ant1	17.548
NVNT	ac20	5240	Ant1	17.491
NVNT	ac40	5190	Ant1	36.098
NVNT	ac40	5230	Ant1	36.05
NVNT	ac80	5210	Ant1	75.316

Test Graphs

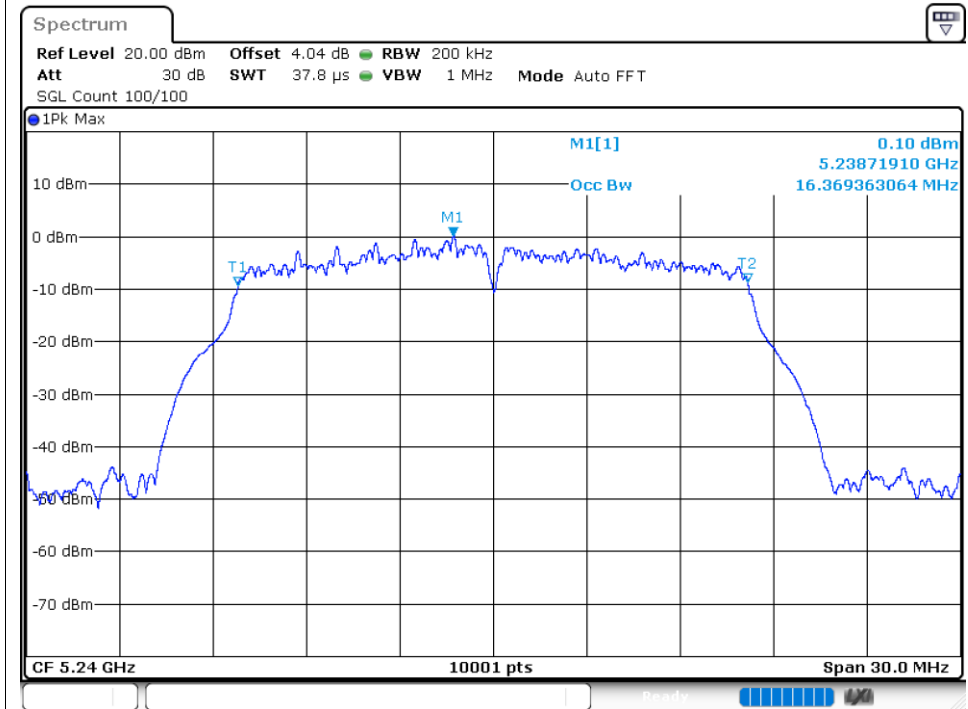
OBW NVNT a 5180MHz Ant1



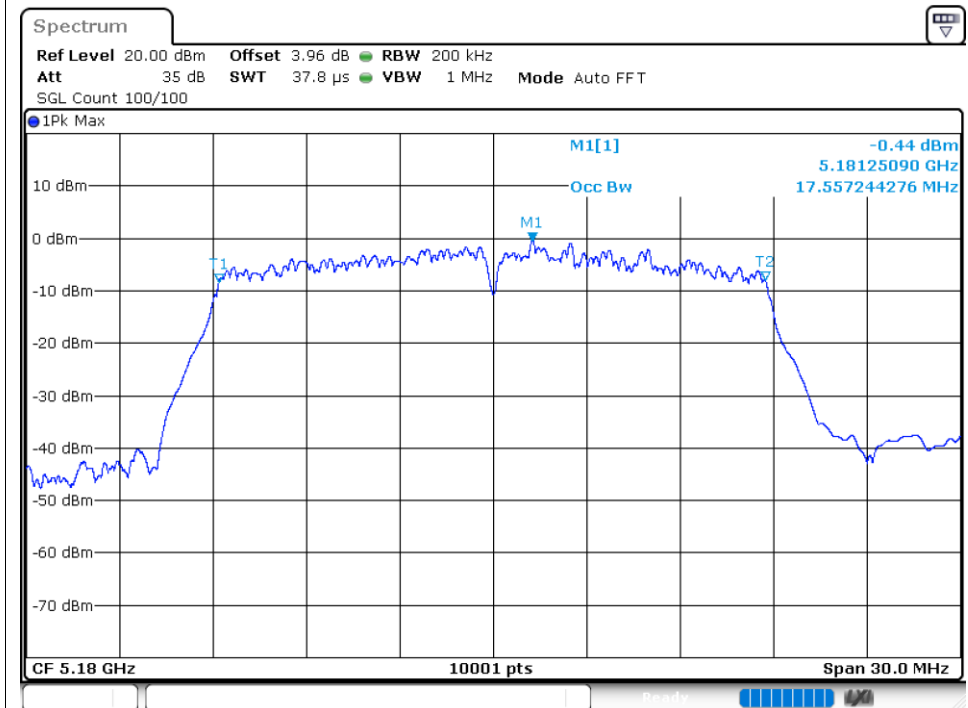
OBW NVNT a 5200MHz Ant1



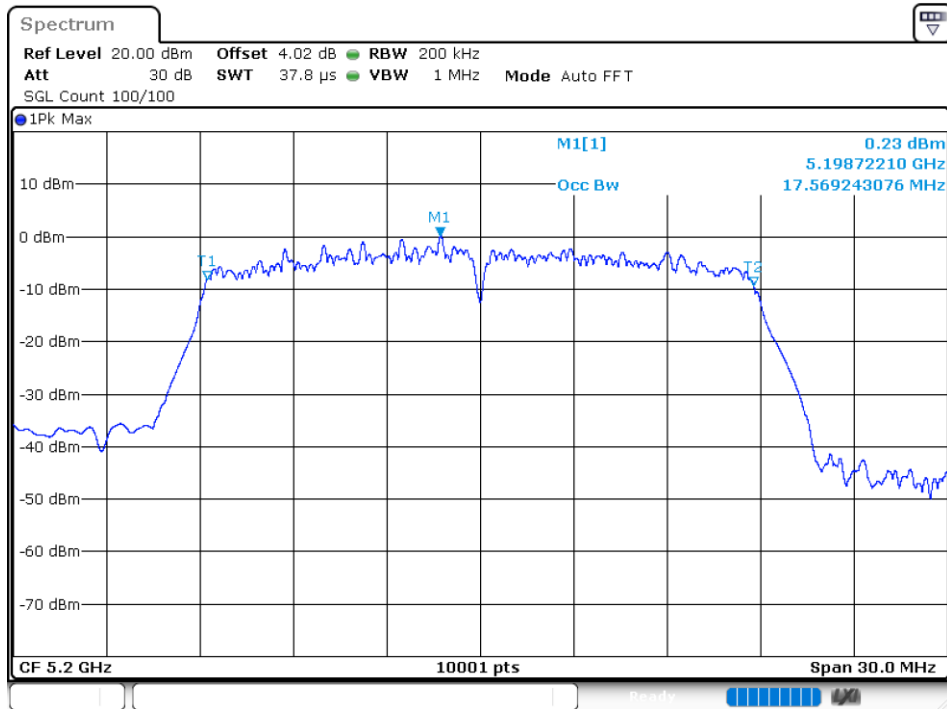
OBW NVNT a 5240MHz Ant1



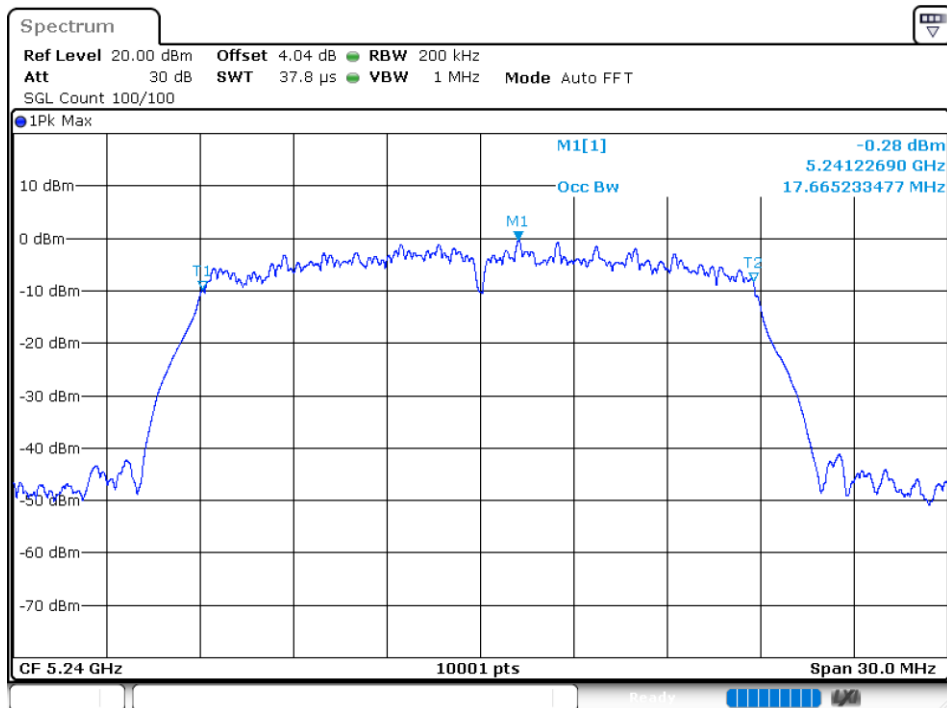
OBW NVNT n20 5180MHz Ant1



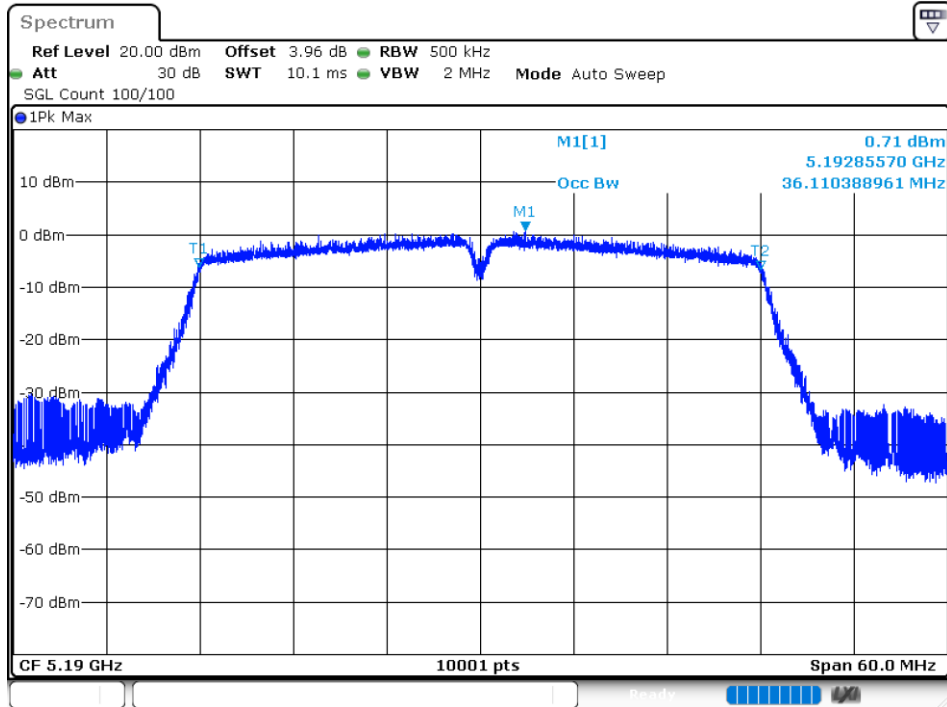
OBW NVNT n20 5200MHz Ant1



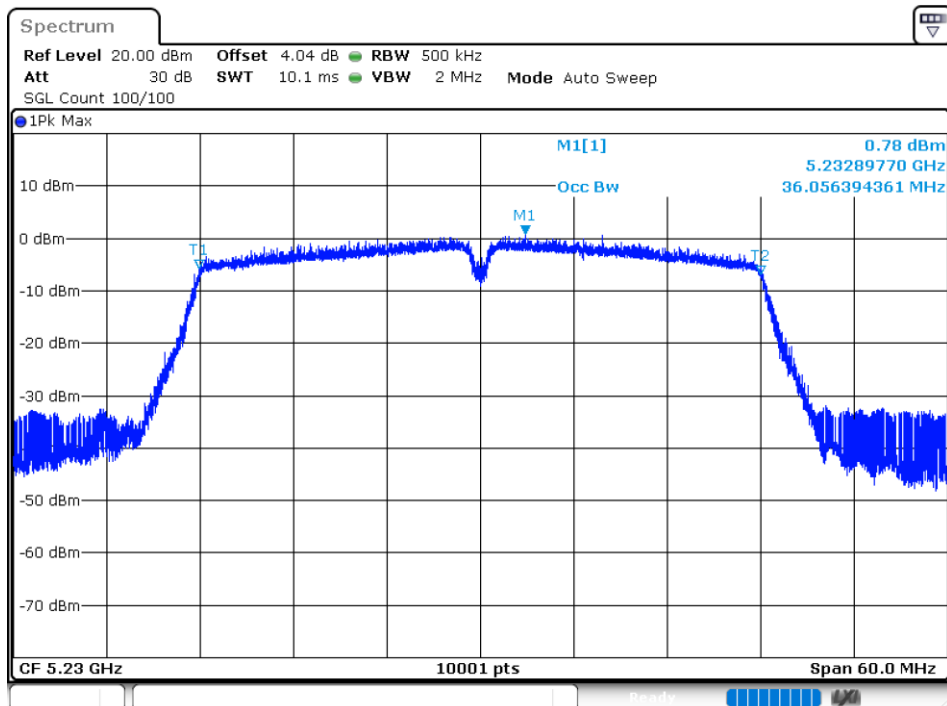
OBW NVNT n20 5240MHz Ant1



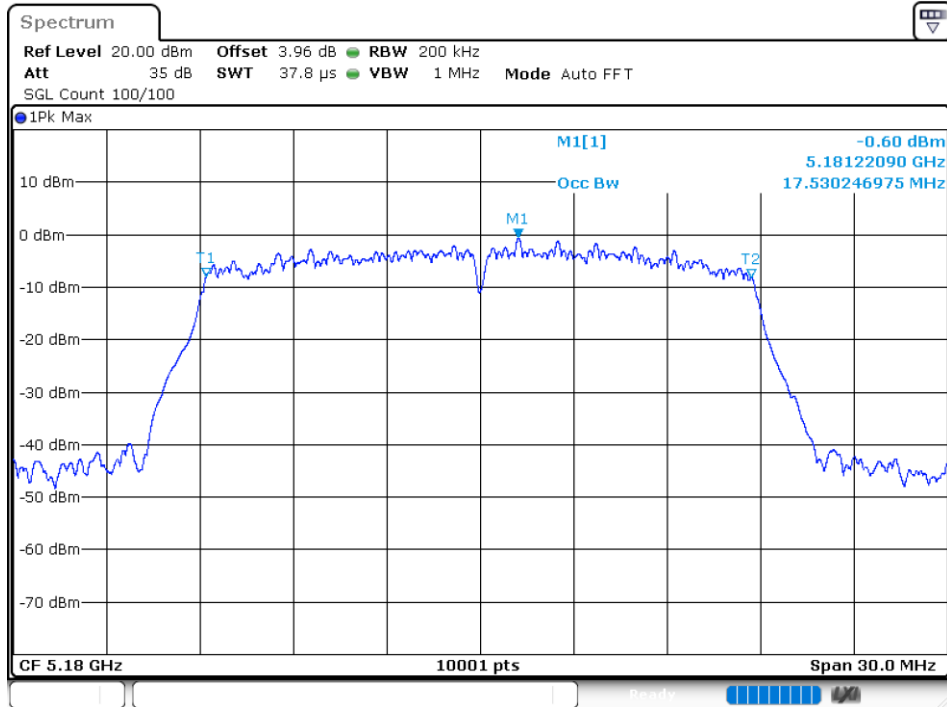
OBW NVNT n40 5190MHz Ant1



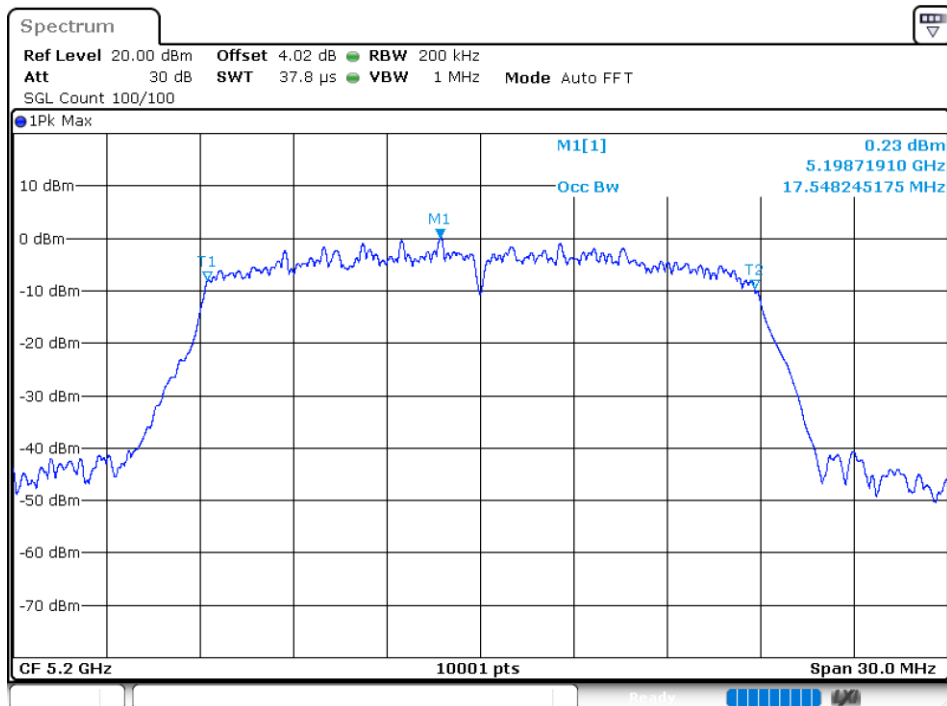
OBW NVNT n40 5230MHz Ant1



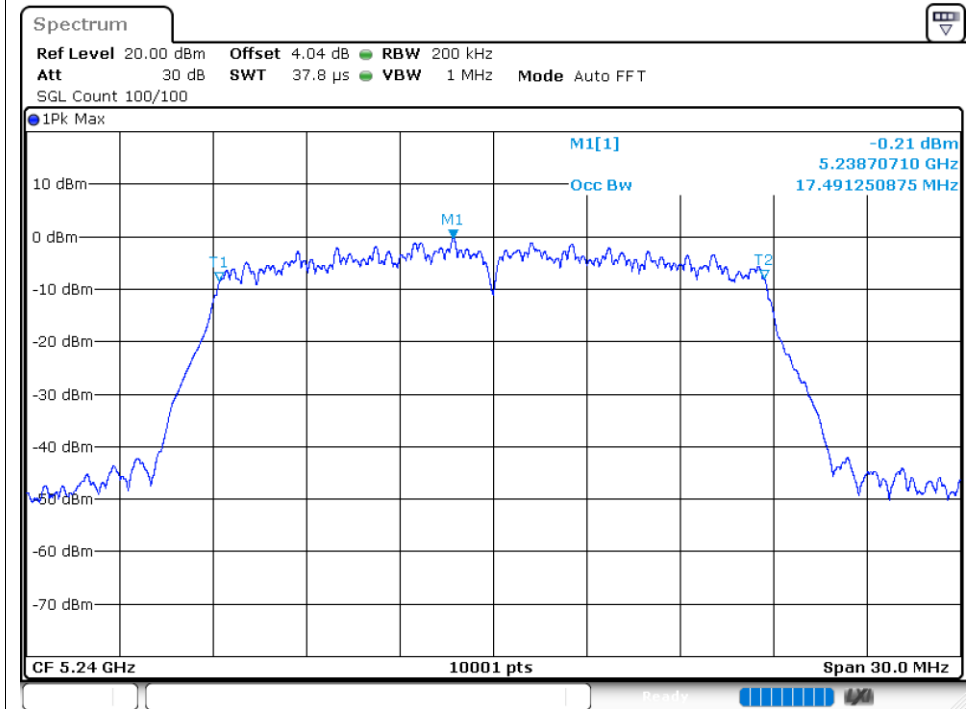
OBW NVNT ac20 5180MHz Ant1



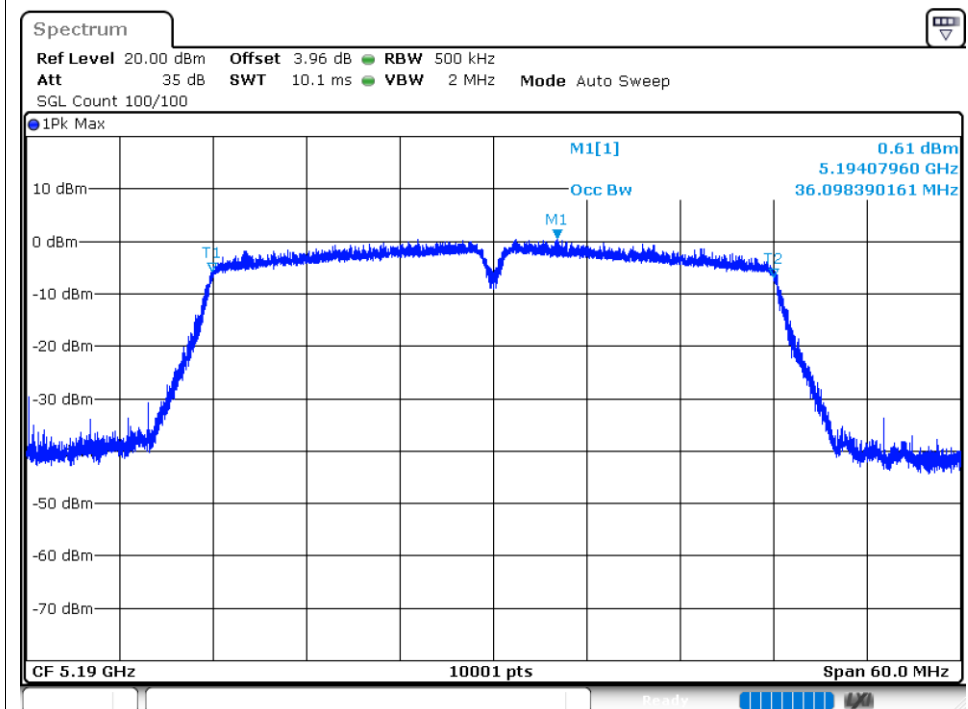
OBW NVNT ac20 5200MHz Ant1



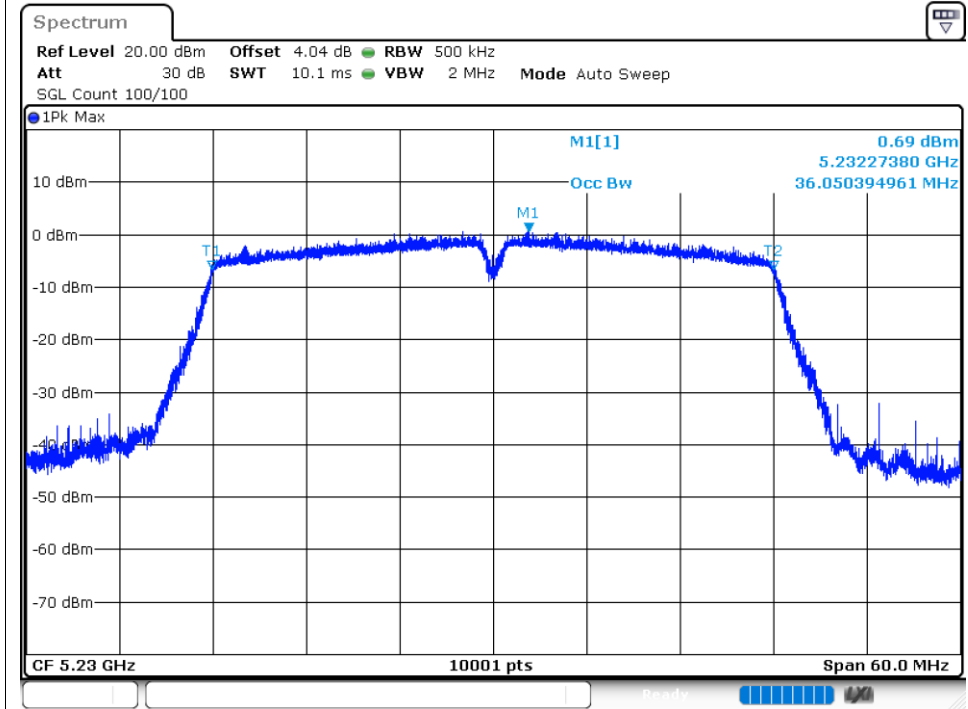
OBW NVNT ac20 5240MHz Ant1



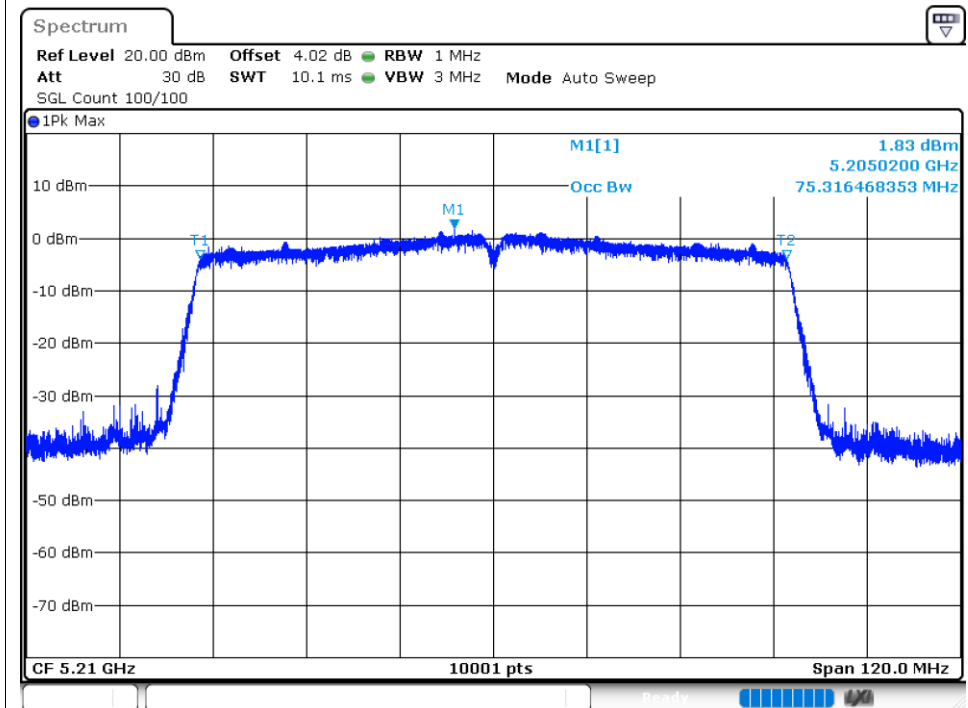
OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



OBW NVNT ac80 5210MHz Ant1

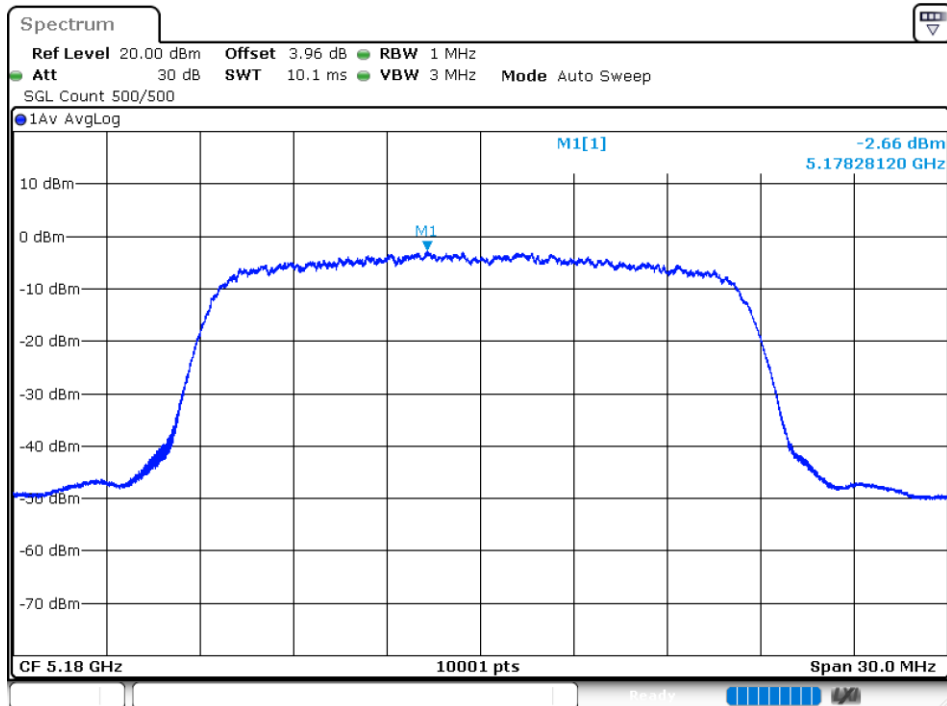


Maximum Power Spectral Density Level

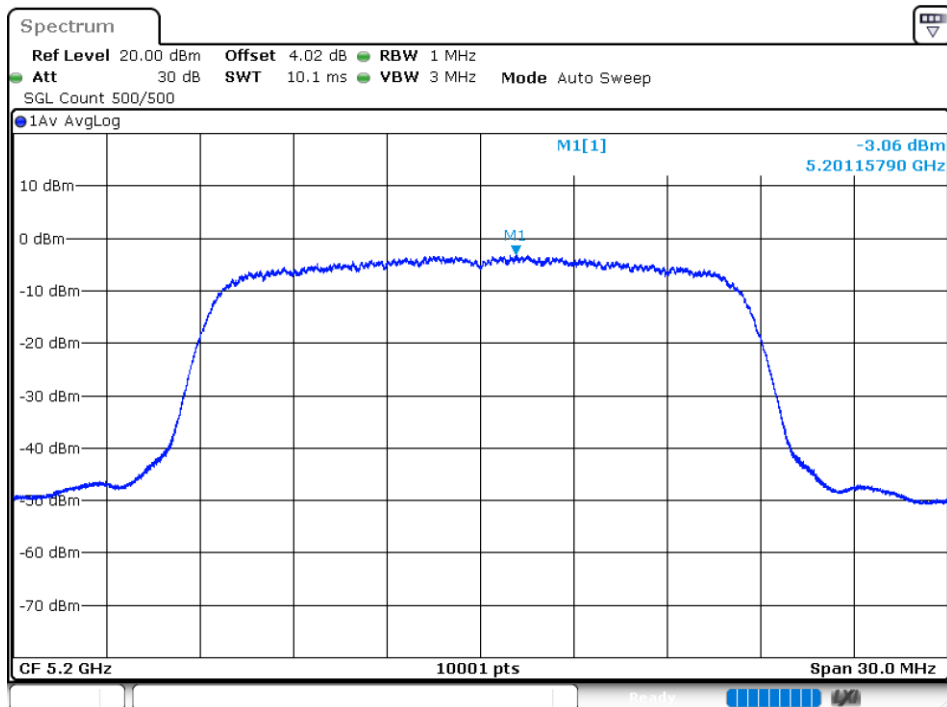
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-2.66	0.08	-2.58	11	Pass
NVNT	a	5200	Ant1	-3.06	0.08	-2.98	11	Pass
NVNT	a	5240	Ant1	-3.07	0.08	-2.99	11	Pass
NVNT	n20	5180	Ant1	-3.15	0.09	-3.06	11	Pass
NVNT	n20	5200	Ant1	-3.41	0.09	-3.32	11	Pass
NVNT	n20	5240	Ant1	-3.41	0.09	-3.32	11	Pass
NVNT	n40	5190	Ant1	-6.95	0.16	-6.79	11	Pass
NVNT	n40	5230	Ant1	-5.62	0.16	-5.46	11	Pass
NVNT	ac20	5180	Ant1	-3.15	0.08	-3.07	11	Pass
NVNT	ac20	5200	Ant1	-3.05	0.09	-2.96	11	Pass
NVNT	ac20	5240	Ant1	-2.64	0.08	-2.56	11	Pass
NVNT	ac40	5190	Ant1	-7.38	0.16	-7.22	11	Pass
NVNT	ac40	5230	Ant1	-7.82	0.16	-7.66	11	Pass
NVNT	ac80	5210	Ant1	-10.99	0.31	-10.68	11	Pass

Test Graphs

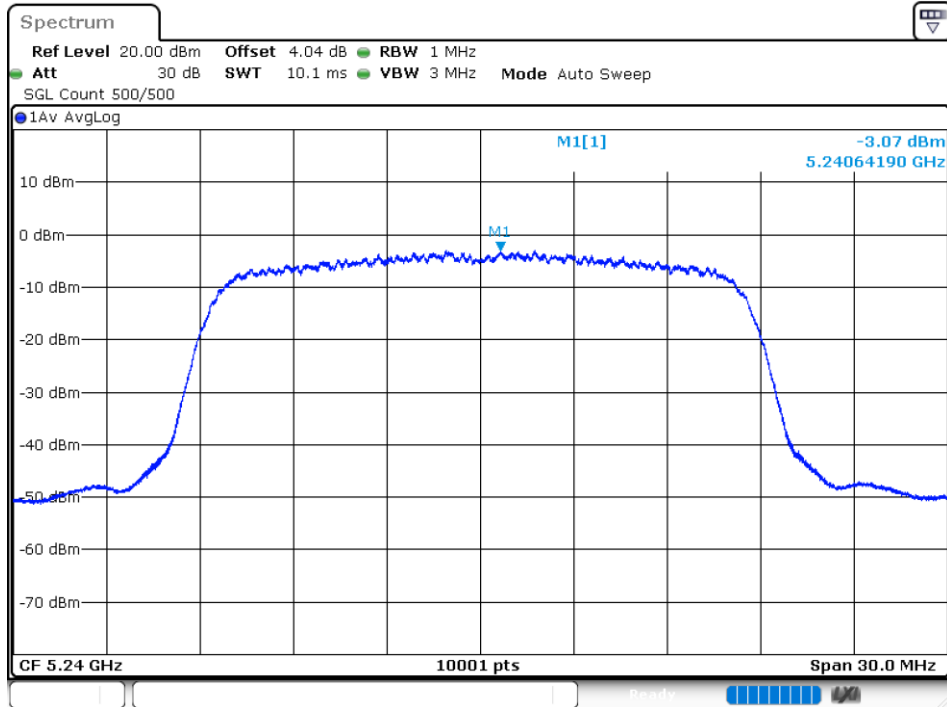
PSD NVNT a 5180MHz Ant1



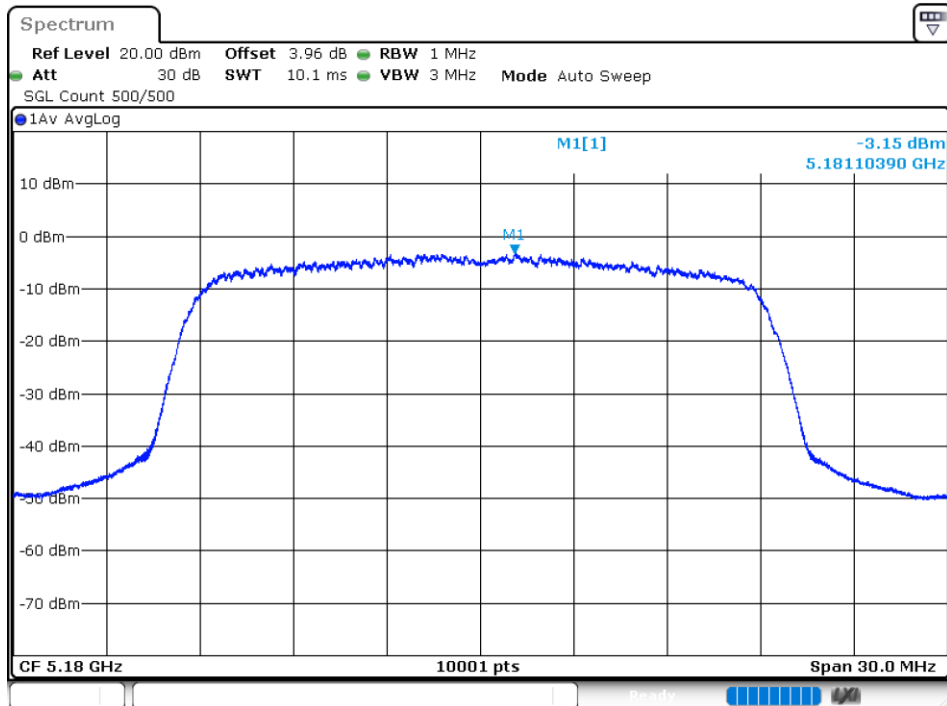
PSD NVNT a 5200MHz Ant1



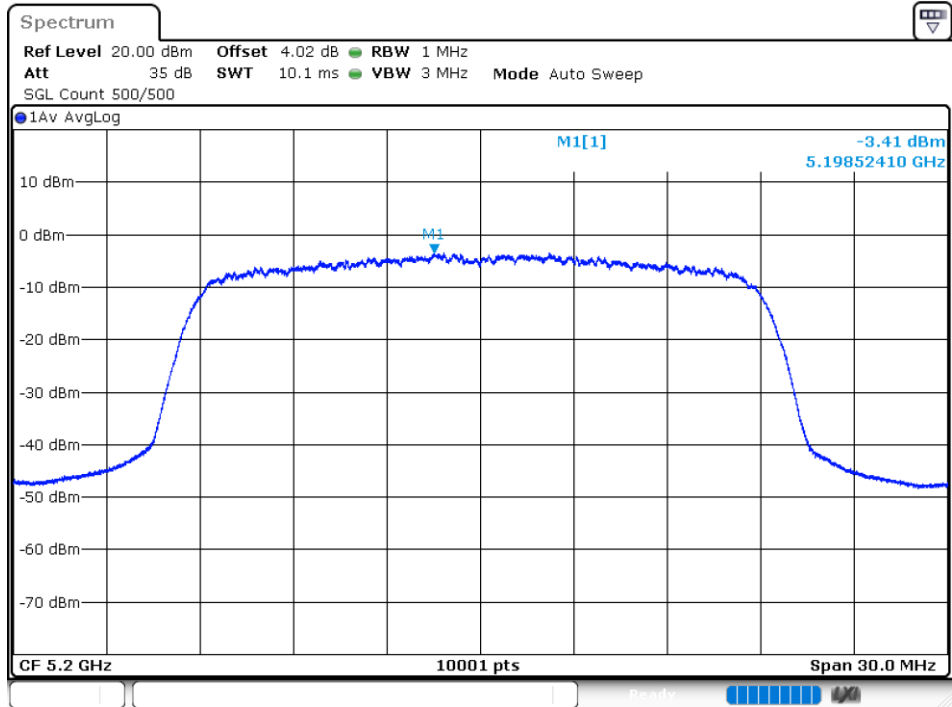
PSD NVNT a 5240MHz Ant1



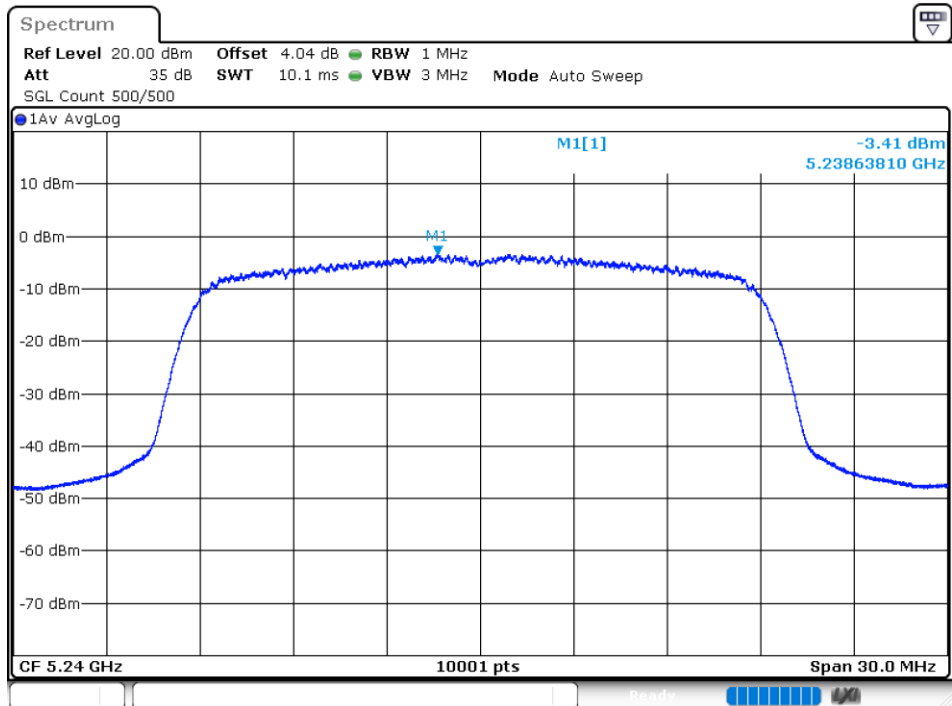
PSD NVNT n20 5180MHz Ant1



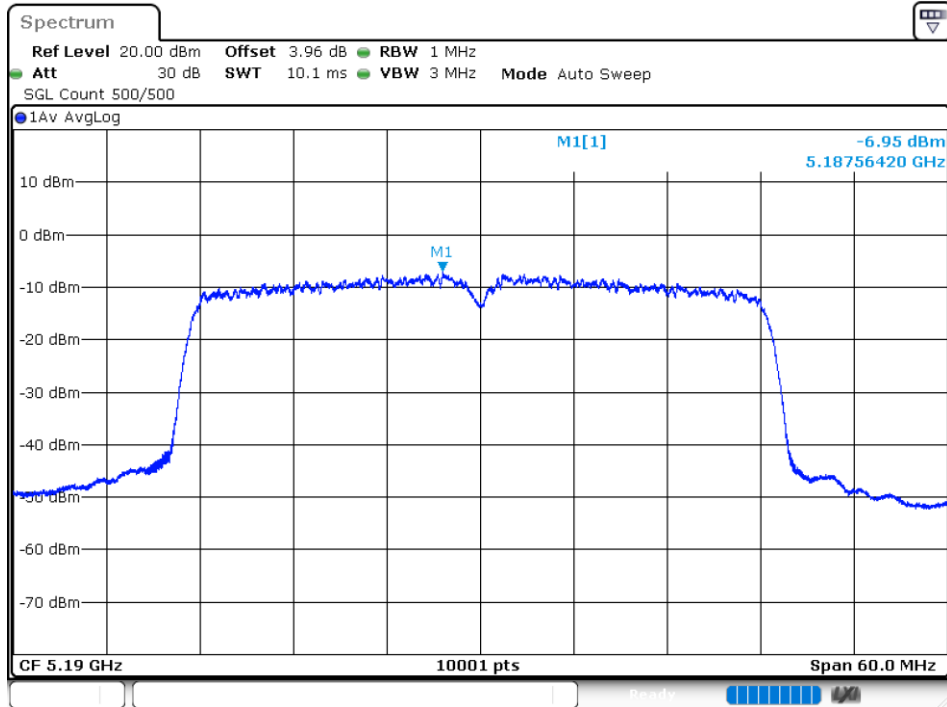
PSD NVNT n20 5200MHz Ant1



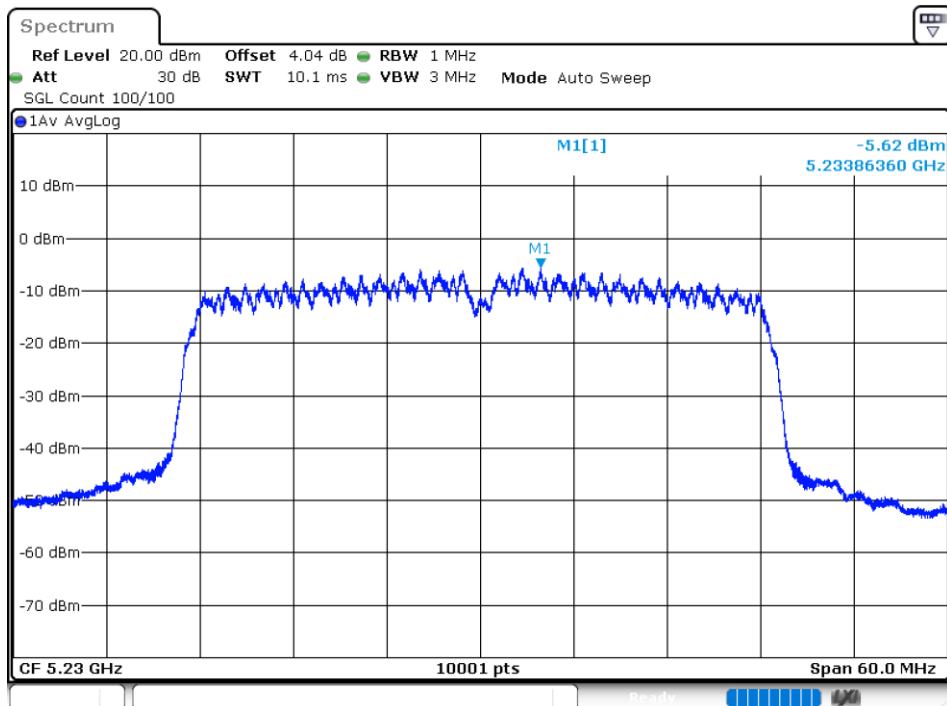
PSD NVNT n20 5240MHz Ant1



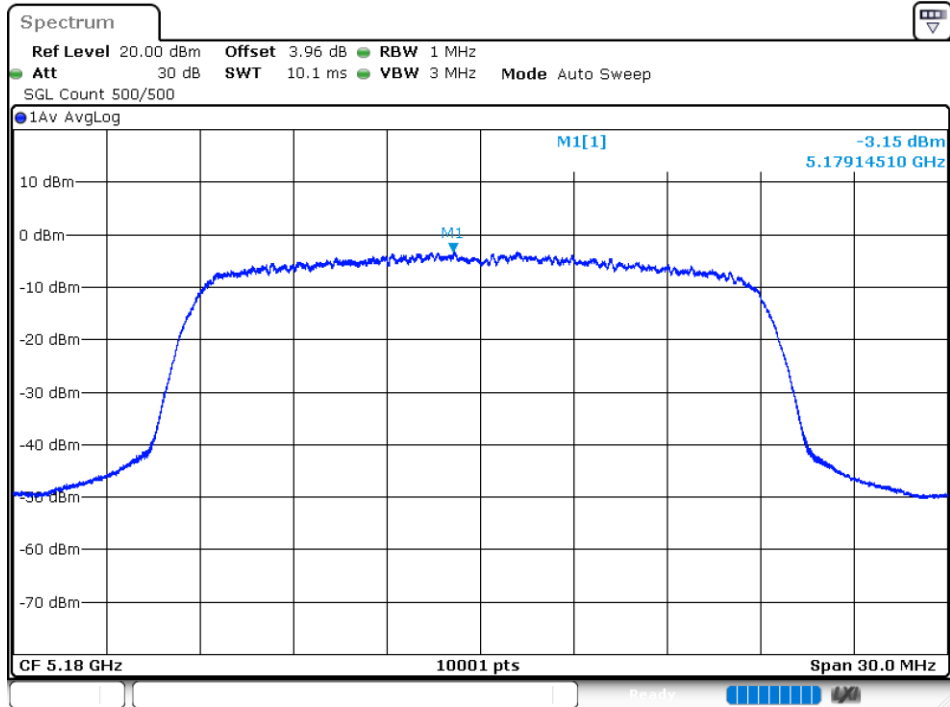
PSD NVNT n40 5190MHz Ant1



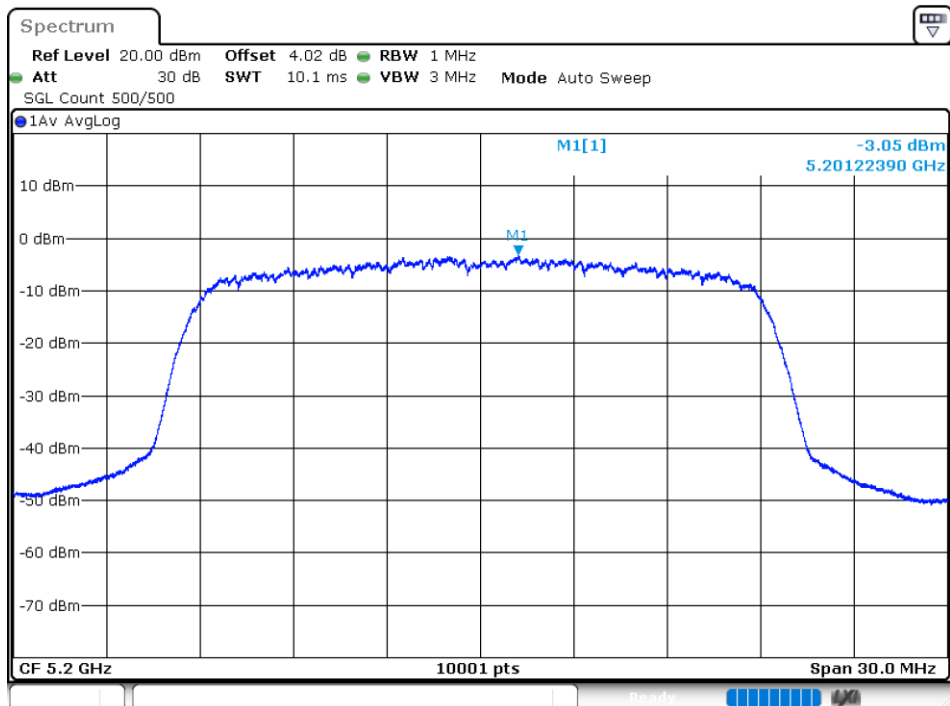
PSD NVNT n40 5230MHz Ant1



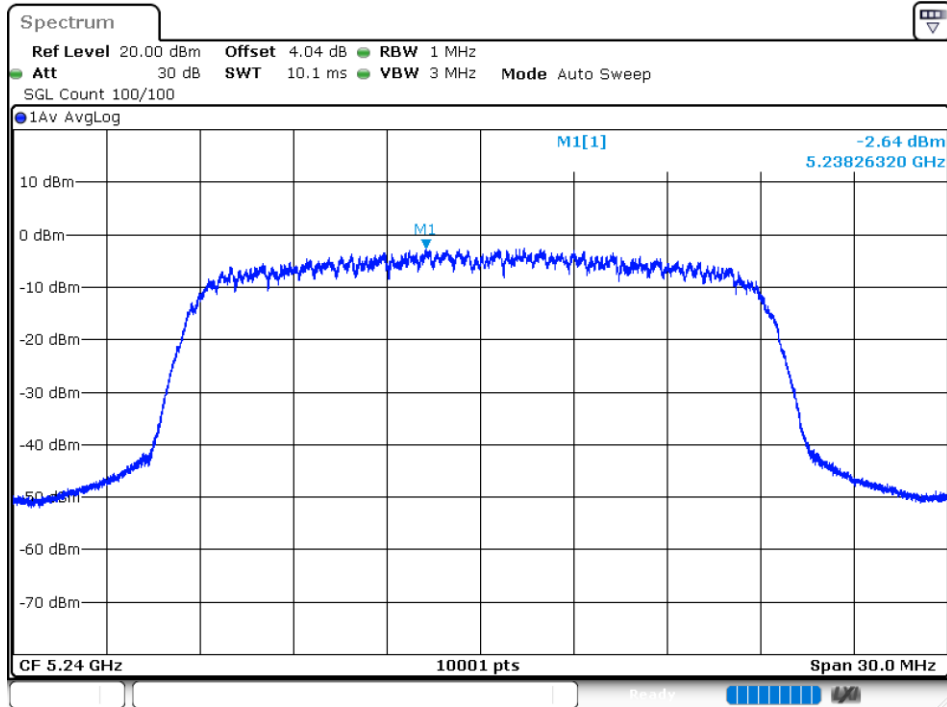
PSD NVNT ac20 5180MHz Ant1



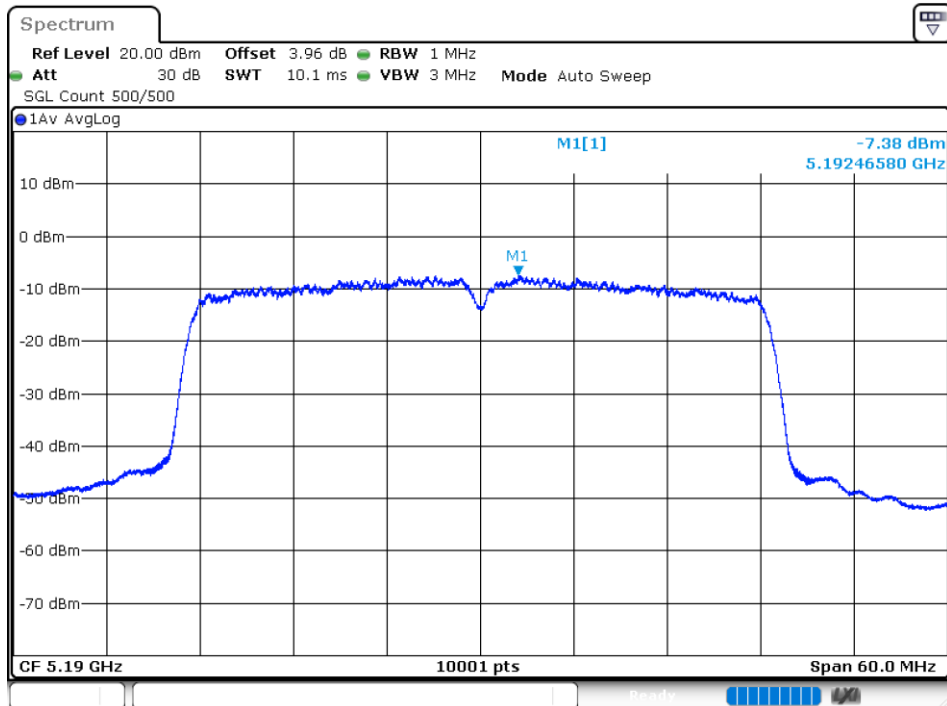
PSD NVNT ac20 5200MHz Ant1



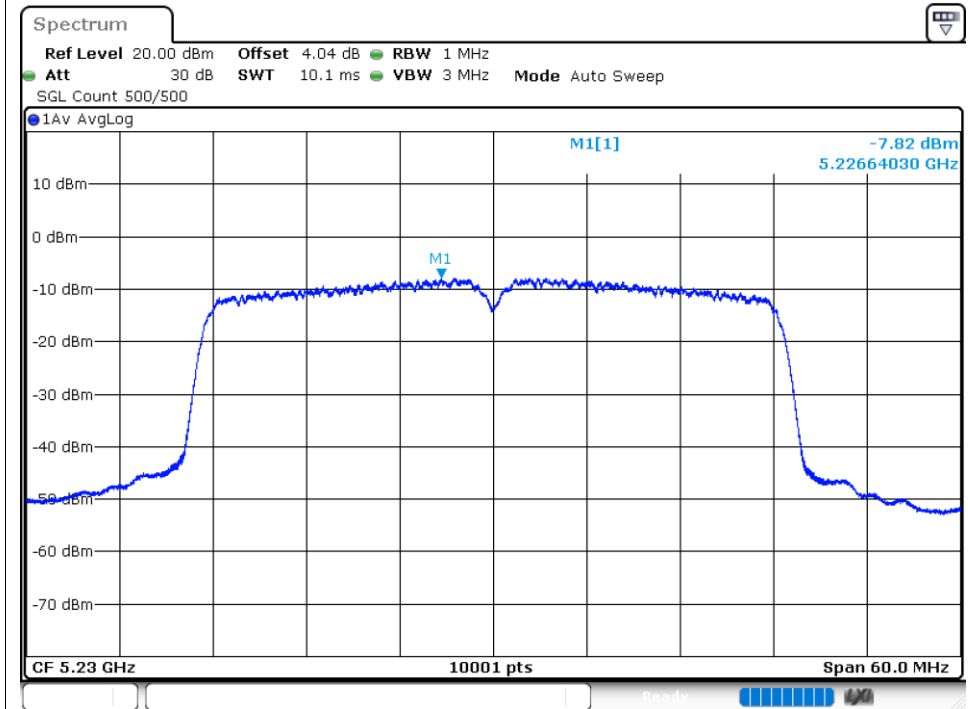
PSD NVNT ac20 5240MHz Ant1



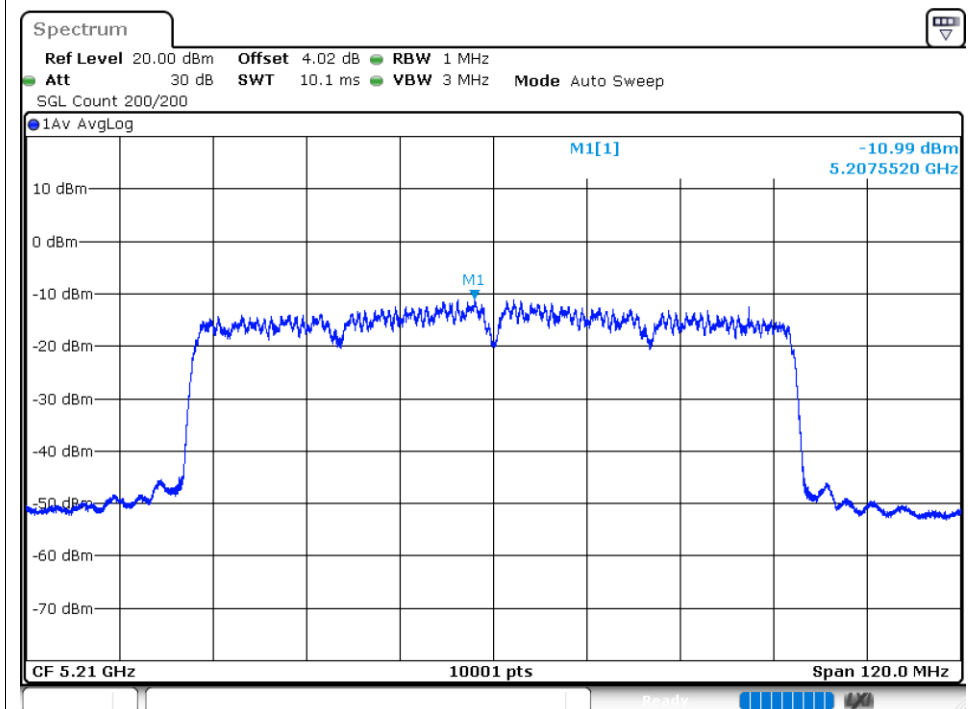
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1

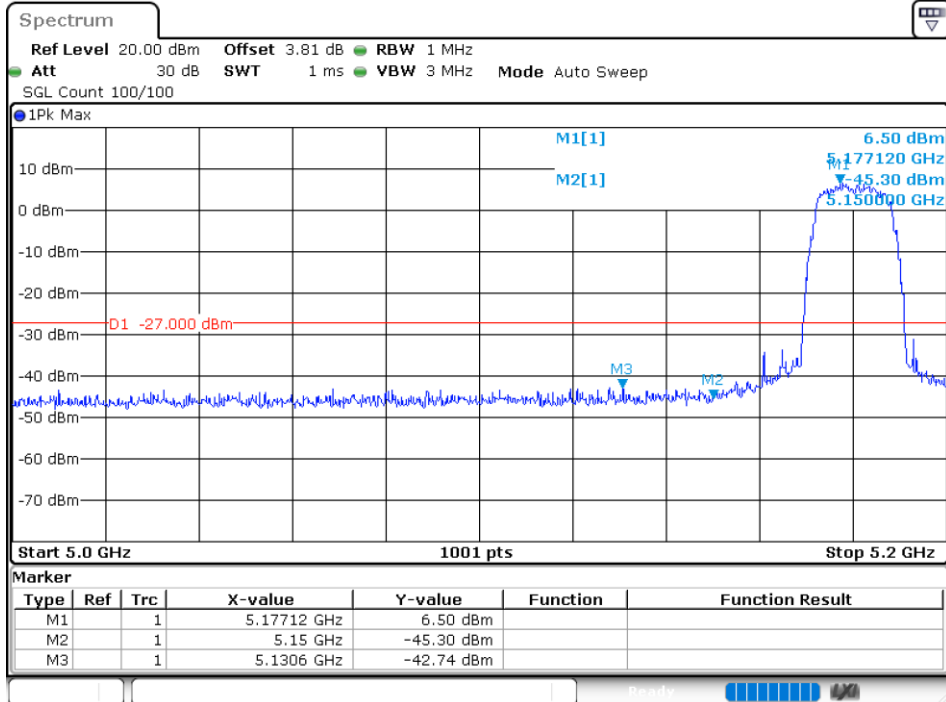


Band Edge

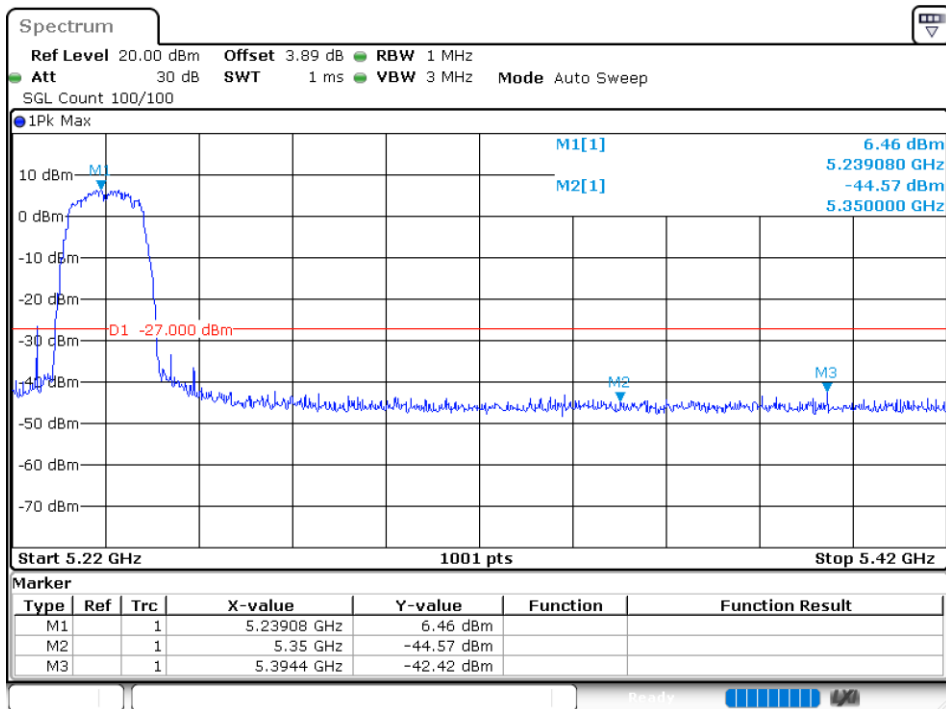
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-42.74	-27	Pass
NVNT	a	5240	Ant1	-42.42	-27	Pass
NVNT	n20	5180	Ant1	-42.01	-27	Pass
NVNT	n20	5240	Ant1	-43.09	-27	Pass
NVNT	n40	5190	Ant1	-30.88	-27	Pass
NVNT	n40	5230	Ant1	-44.1	-27	Pass
NVNT	ac20	5180	Ant1	-42.29	-27	Pass
NVNT	ac20	5240	Ant1	-43.41	-27	Pass
NVNT	ac40	5190	Ant1	-36.82	-27	Pass
NVNT	ac40	5230	Ant1	-43.07	-27	Pass
NVNT	ac80	5210	Ant1	-46.87	-27	Pass

Test Graphs

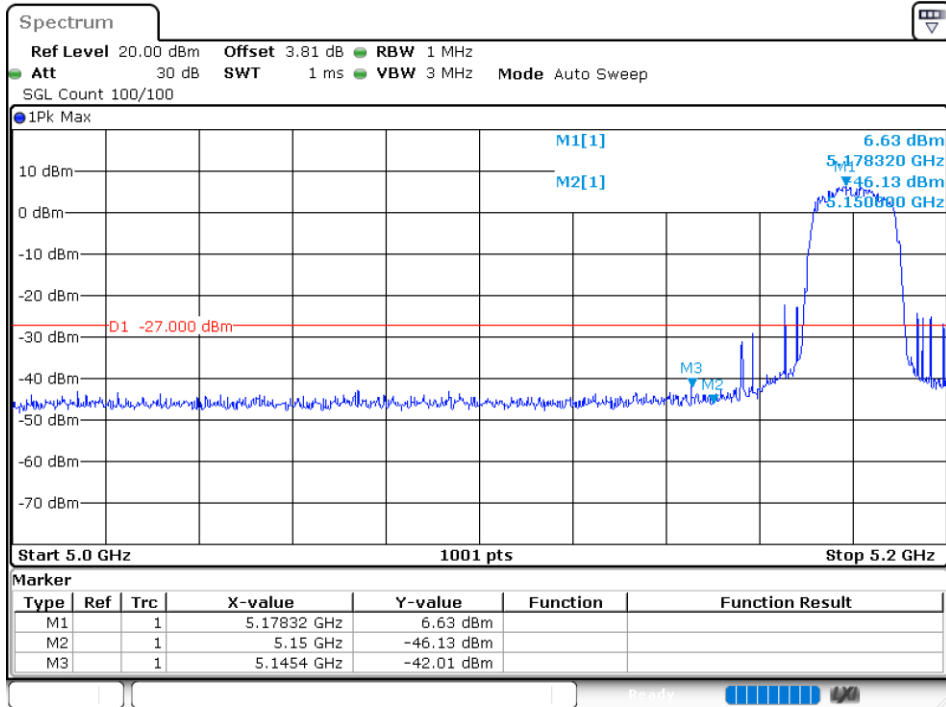
Band Edge NVNT a 5180MHz Low Ant1



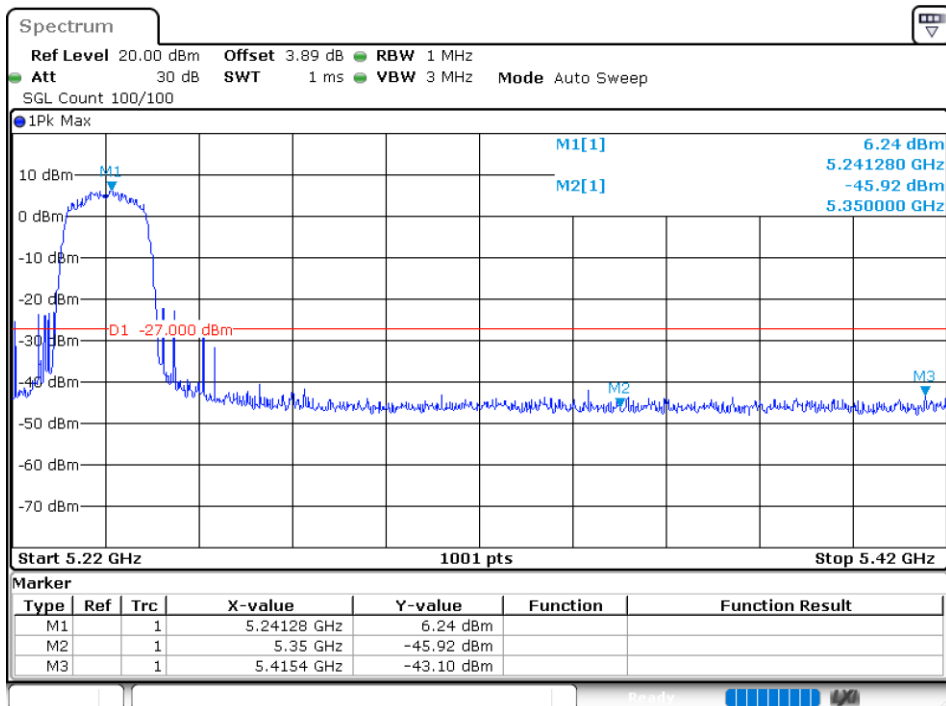
Band Edge NVNT a 5240MHz High Ant1



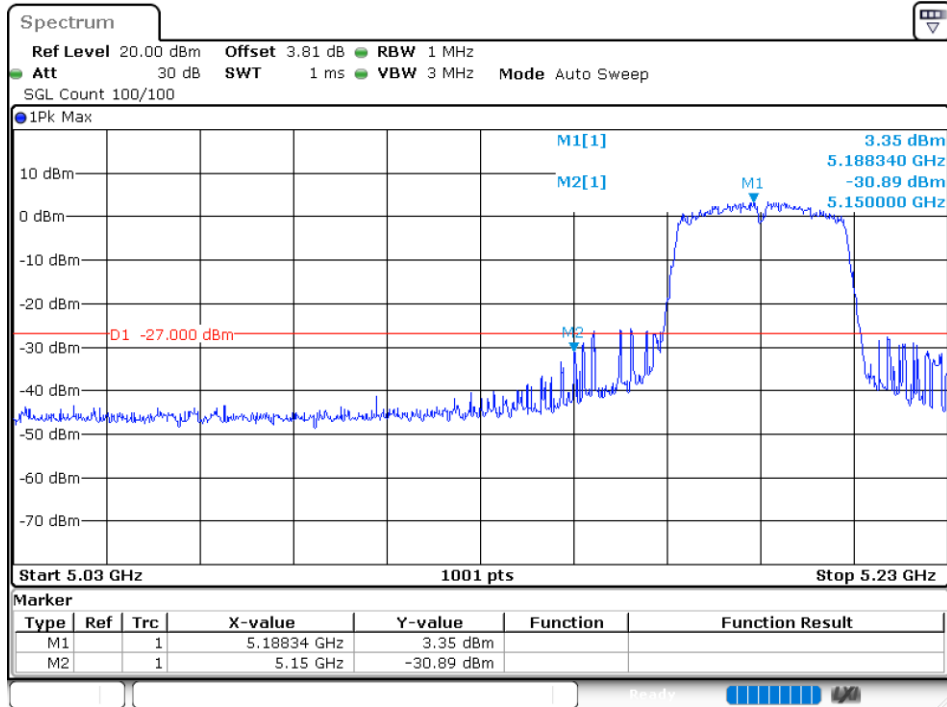
Band Edge NVNT n20 5180MHz Low Ant1



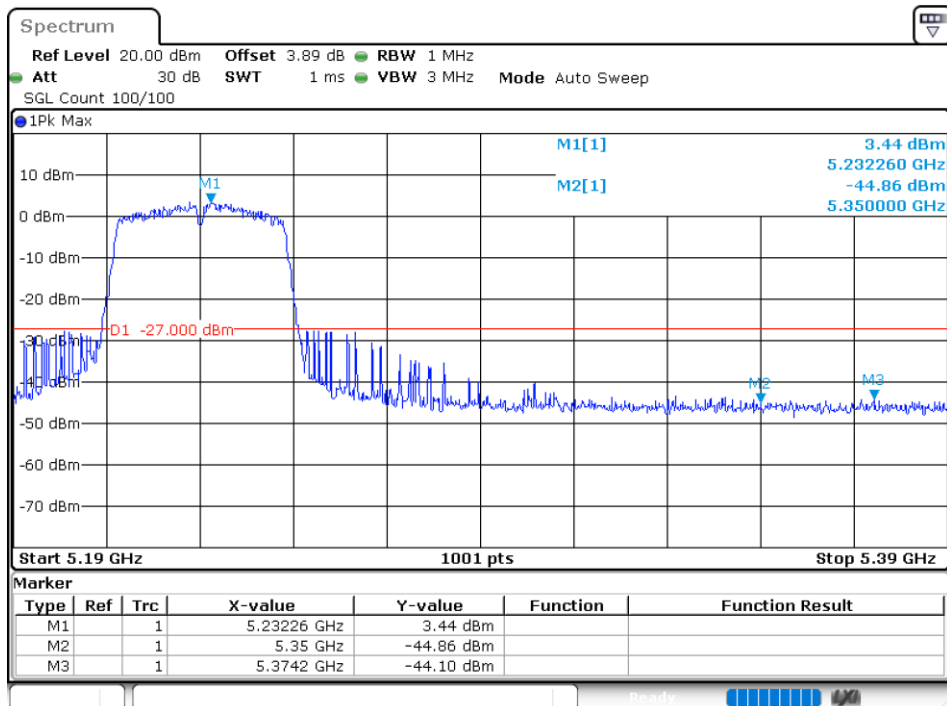
Band Edge NVNT n20 5240MHz High Ant1



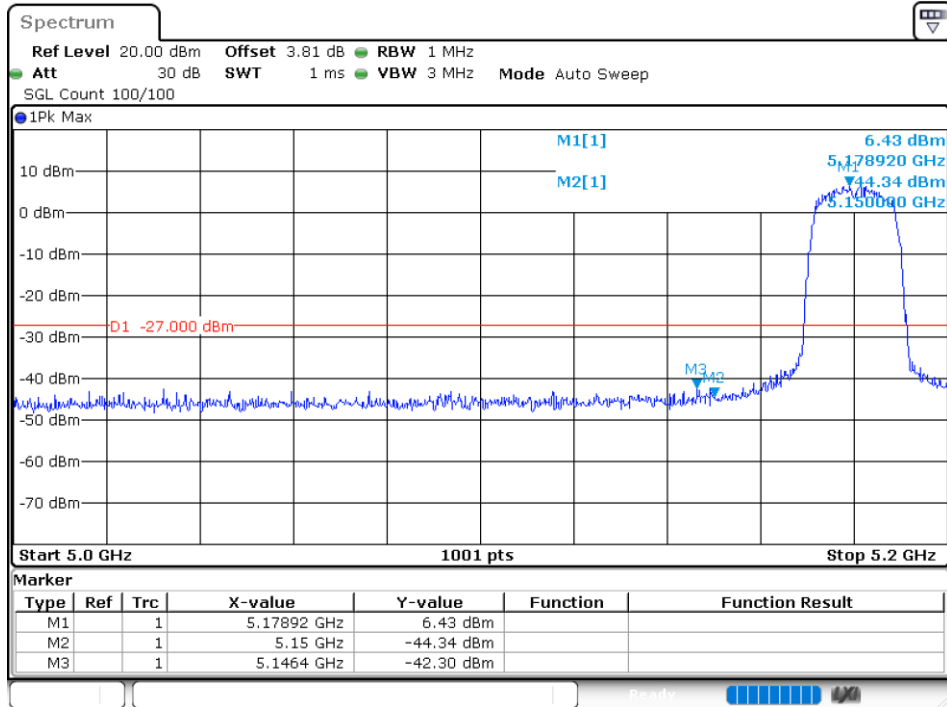
Band Edge NVNT n40 5190MHz Low Ant1



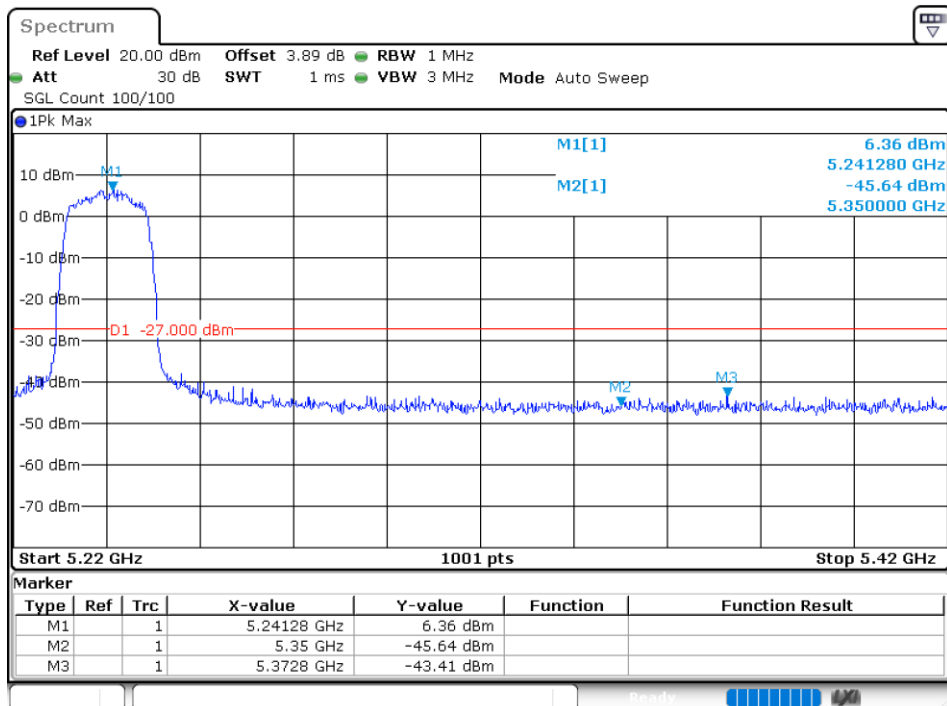
Band Edge NVNT n40 5230MHz High Ant1



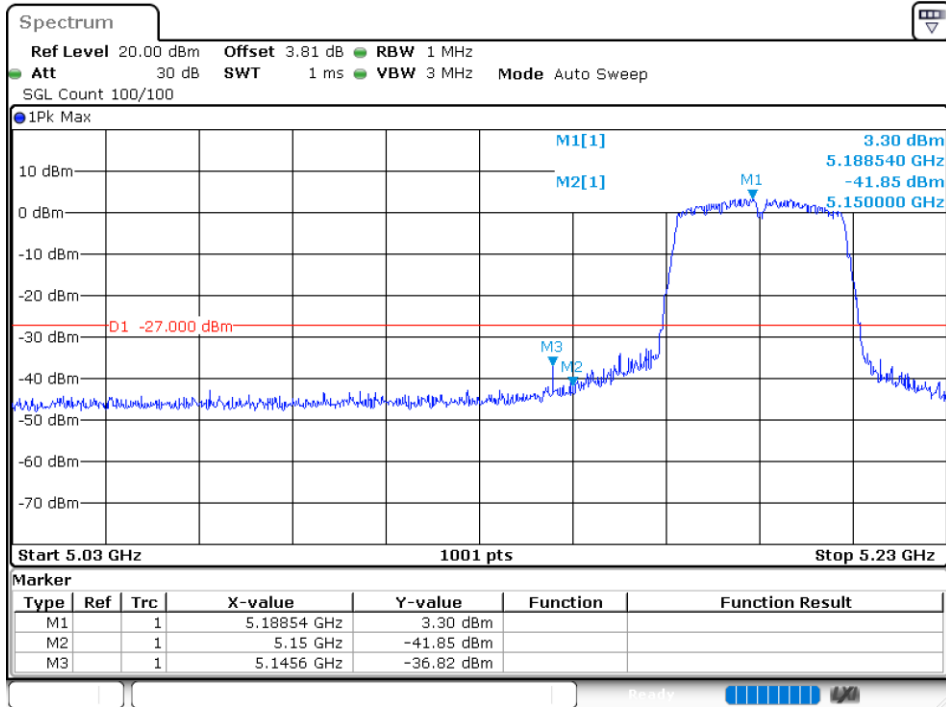
Band Edge NVNT ac20 5180MHz Low Ant1



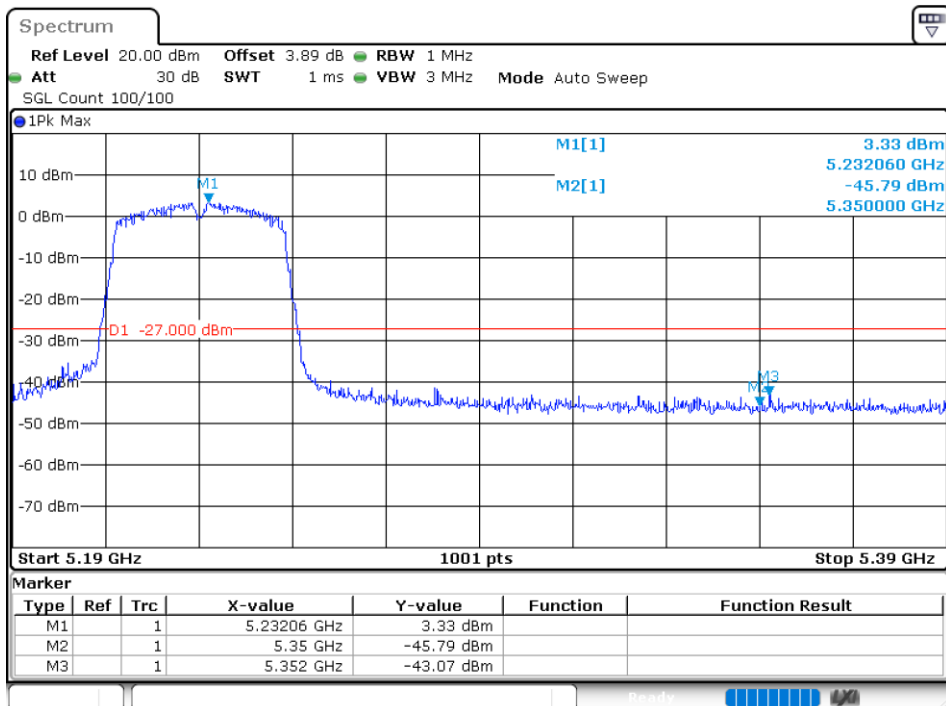
Band Edge NVNT ac20 5240MHz High Ant1

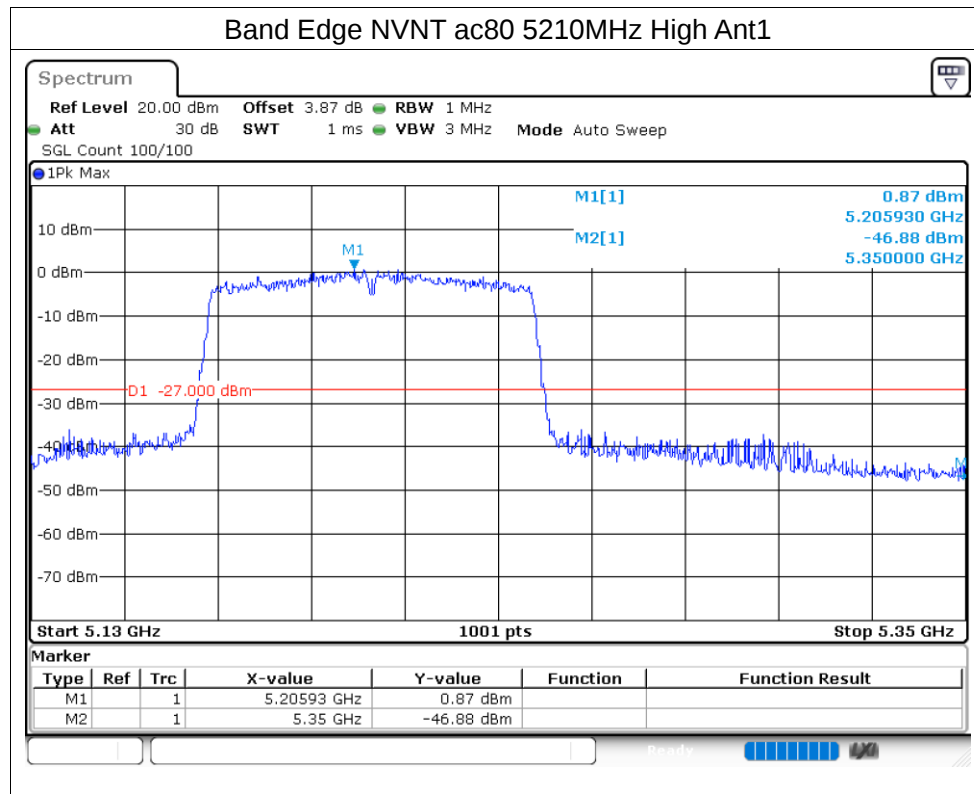


Band Edge NVNT ac40 5190MHz Low Ant1



Band Edge NVNT ac40 5230MHz High Ant1



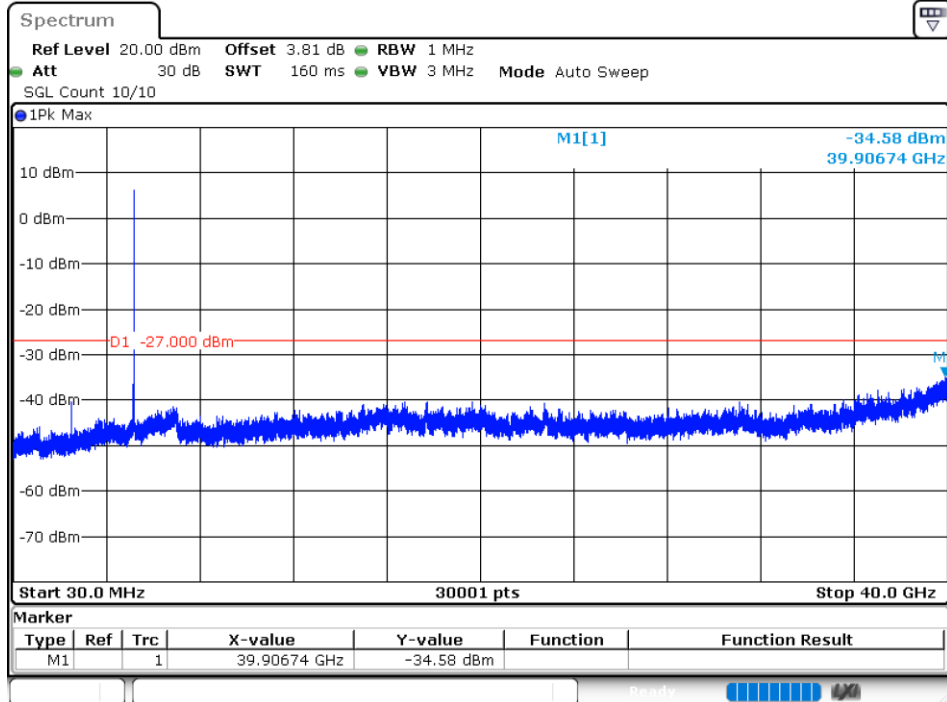


Conducted RF Spurious Emission

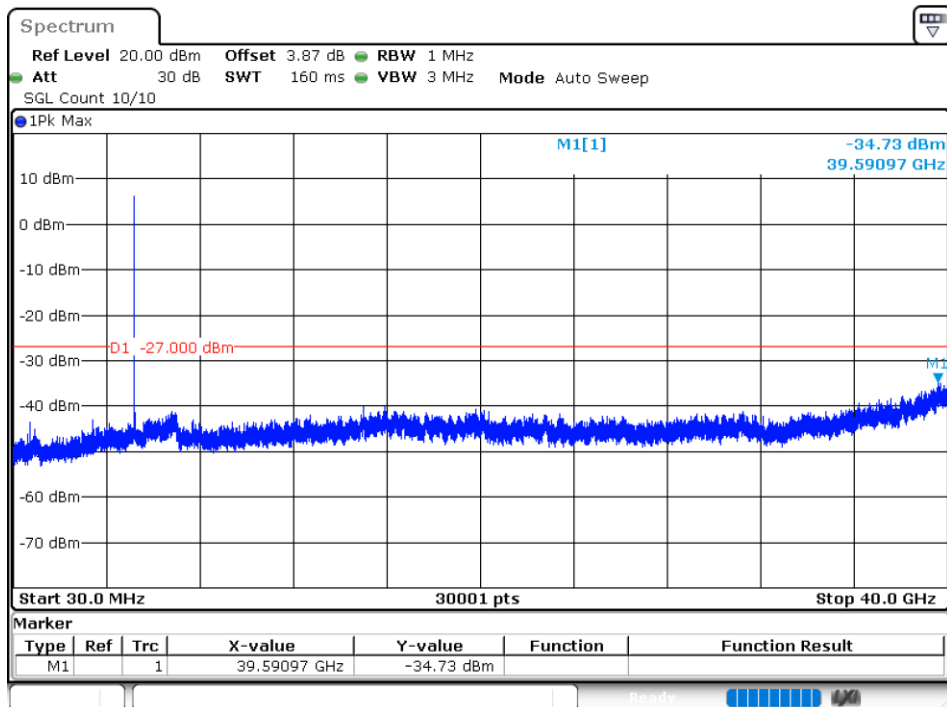
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-34.58	-27	Pass
NVNT	a	5200	Ant1	-34.72	-27	Pass
NVNT	a	5240	Ant1	-34.67	-27	Pass
NVNT	n20	5180	Ant1	-43.82	-27	Pass
NVNT	n20	5200	Ant1	-34.93	-27	Pass
NVNT	n20	5240	Ant1	-34.99	-27	Pass
NVNT	n40	5190	Ant1	-34.02	-27	Pass
NVNT	n40	5230	Ant1	-35.02	-27	Pass
NVNT	ac20	5180	Ant1	-34.78	-27	Pass
NVNT	ac20	5200	Ant1	-34.05	-27	Pass
NVNT	ac20	5240	Ant1	-34.86	-27	Pass
NVNT	ac40	5190	Ant1	-34.66	-27	Pass
NVNT	ac40	5230	Ant1	-35.06	-27	Pass
NVNT	ac80	5210	Ant1	-34.66	-27	Pass

Test Graphs

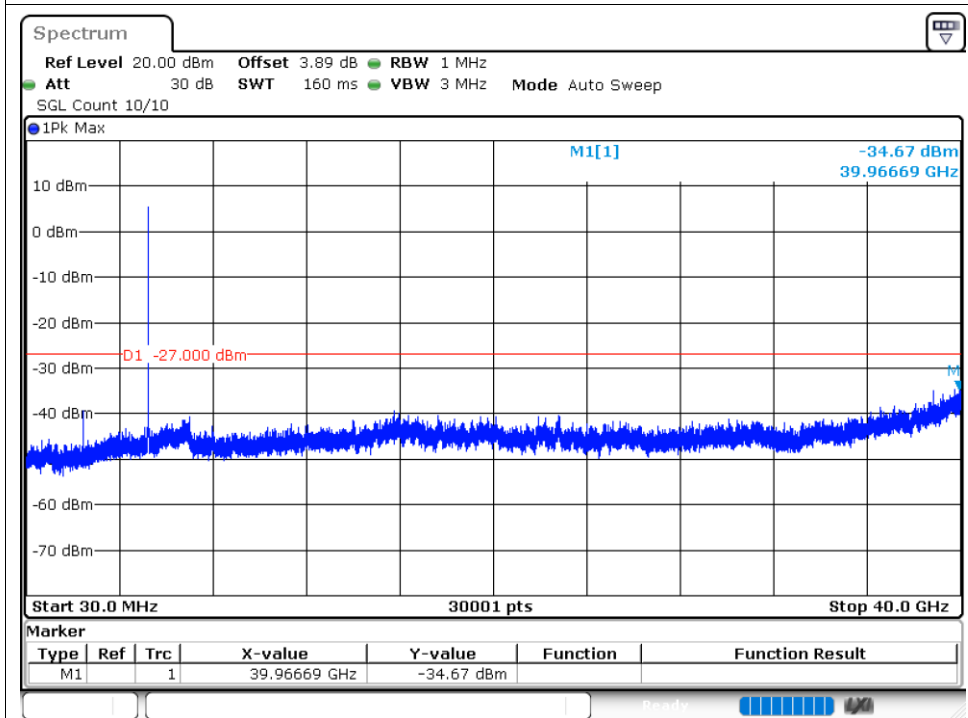
Tx. Spurious NVNT a 5180MHz Ant1 Emission



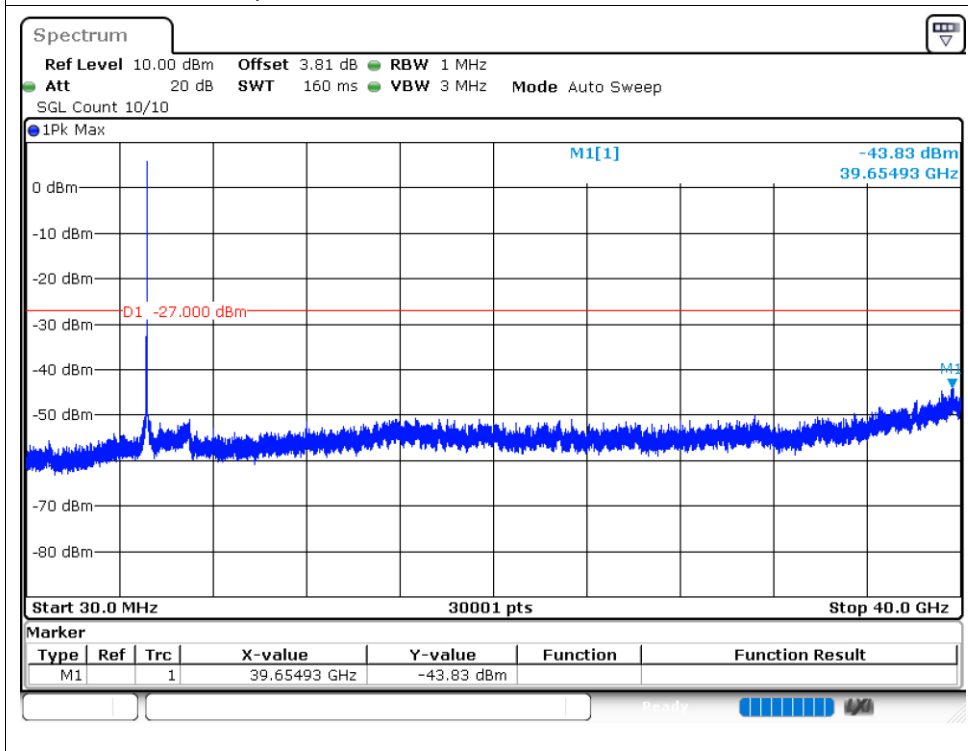
Tx. Spurious NVNT a 5200MHz Ant1 Emission



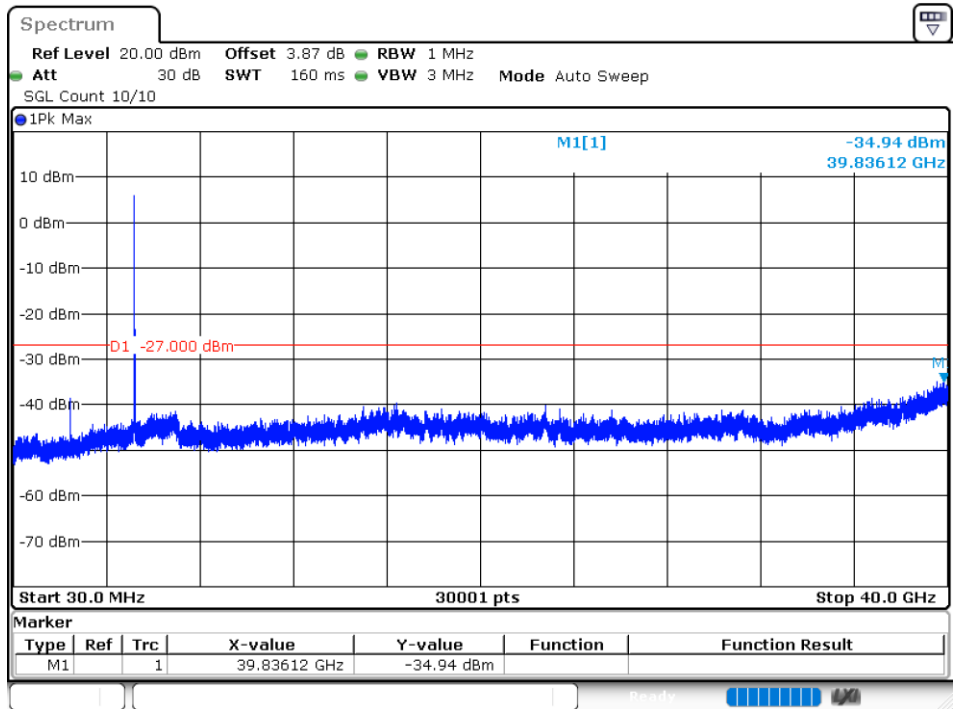
Tx. Spurious NVNT a 5240MHz Ant1 Emission



Tx. Spurious NVNT n20 5180MHz Ant1 Emission



Tx. Spurious NVNT n20 5200MHz Ant1 Emission



Tx. Spurious NVNT n20 5240MHz Ant1 Emission

