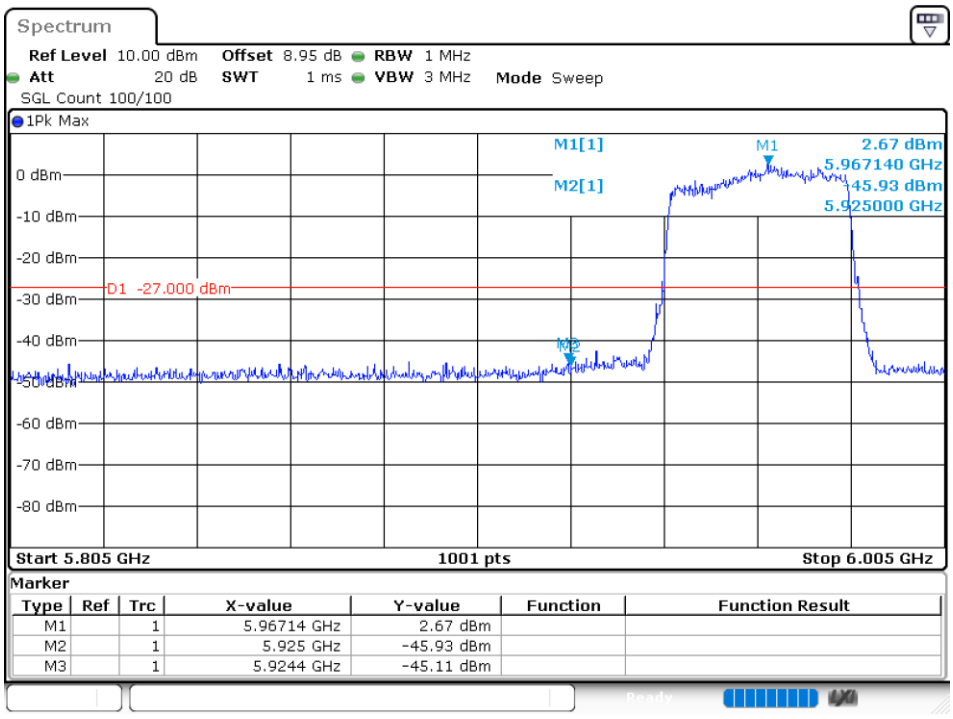
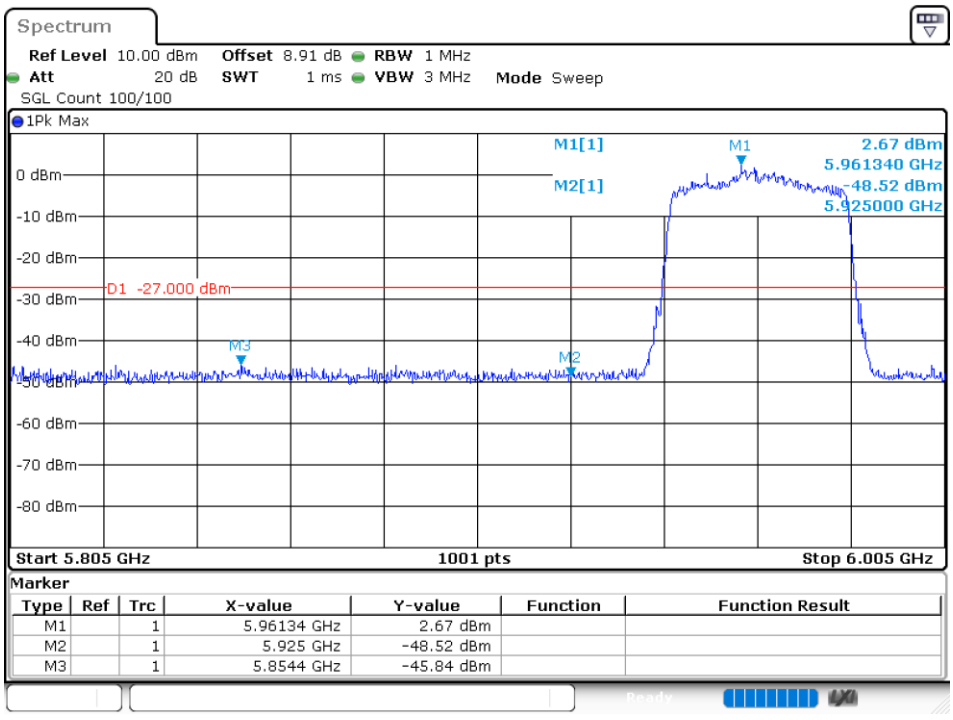
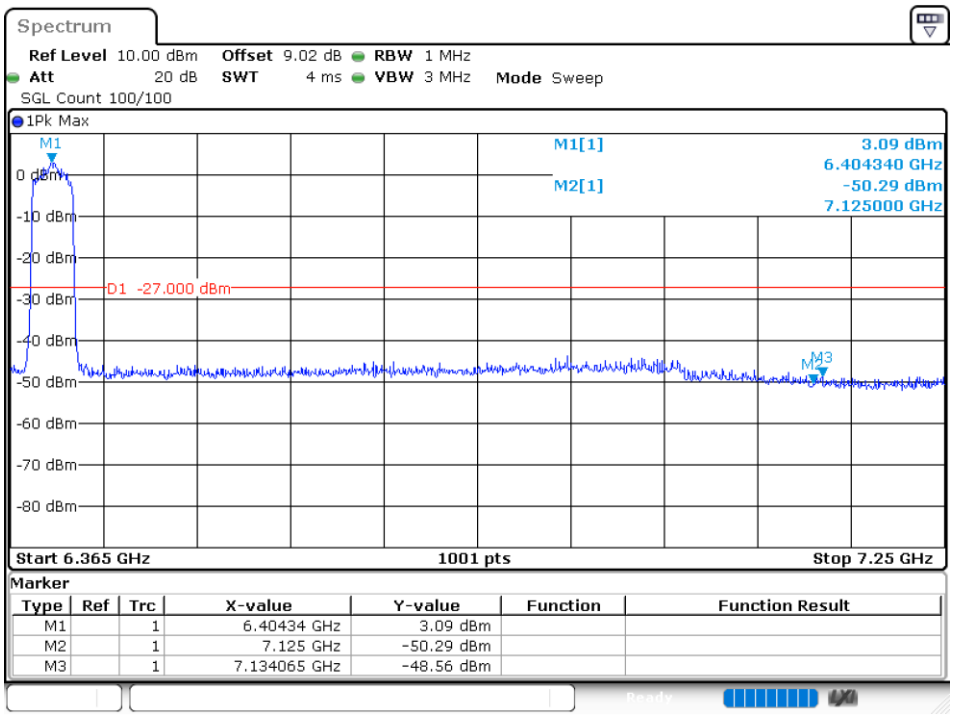
Band Edge NVNT ax40 5965MHz Low Ant1



Band Edge NVNT ax40 5965MHz Low Ant2



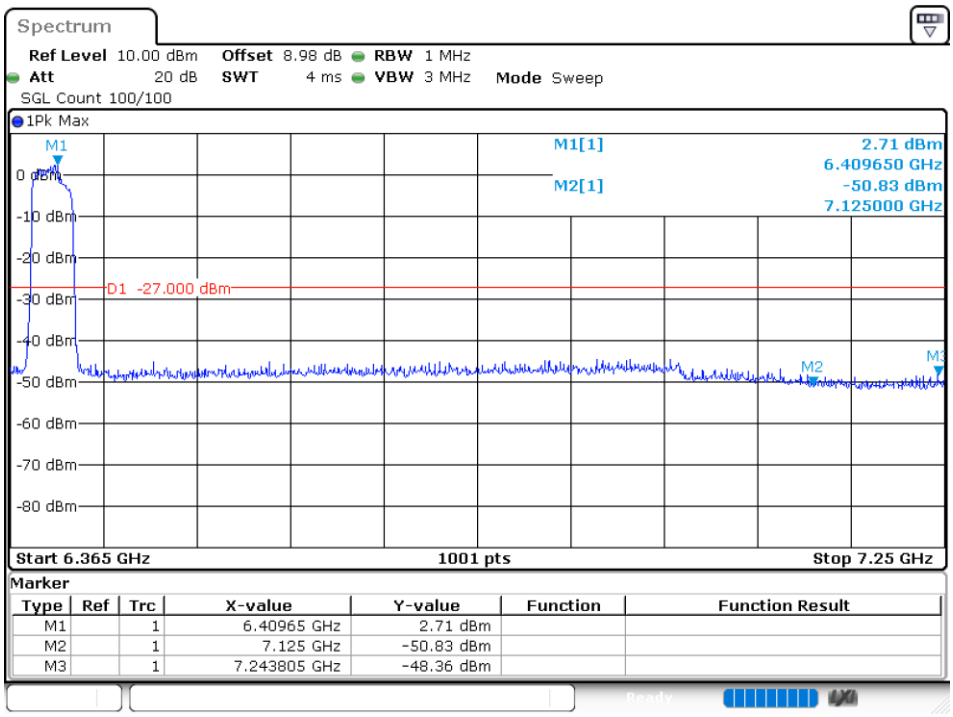
Band Edge NVNT ax40 6405MHz High Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	6.40434 GHz	3.09 dBm		
M2		1	7.125 GHz	-50.29 dBm		
M3		1	7.134065 GHz	-48.56 dBm		

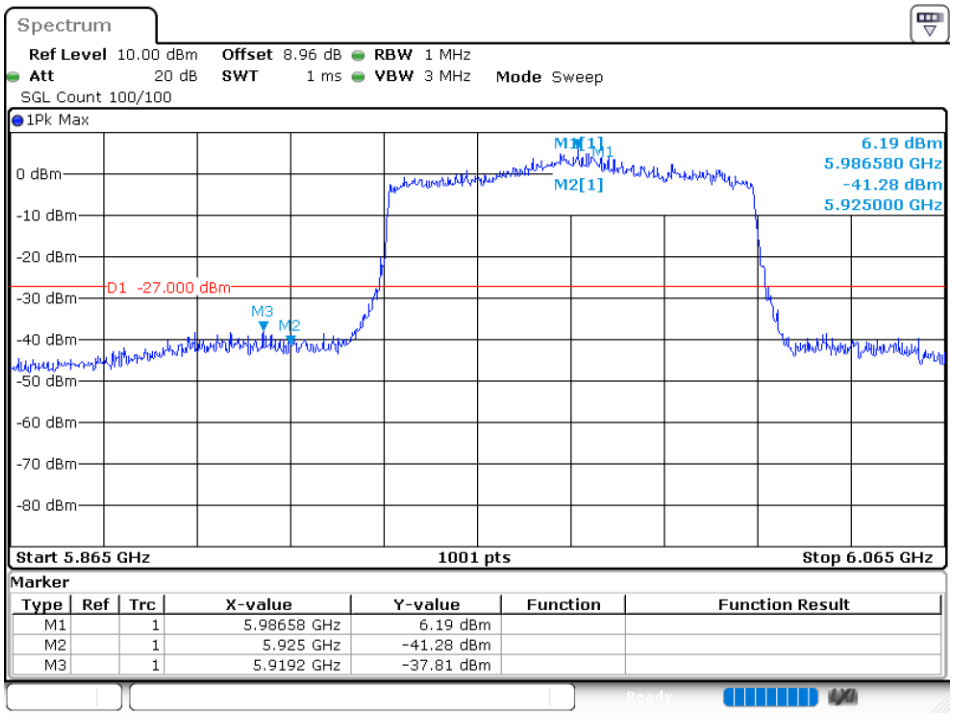
Band Edge NVNT ax40 6405MHz High Ant2



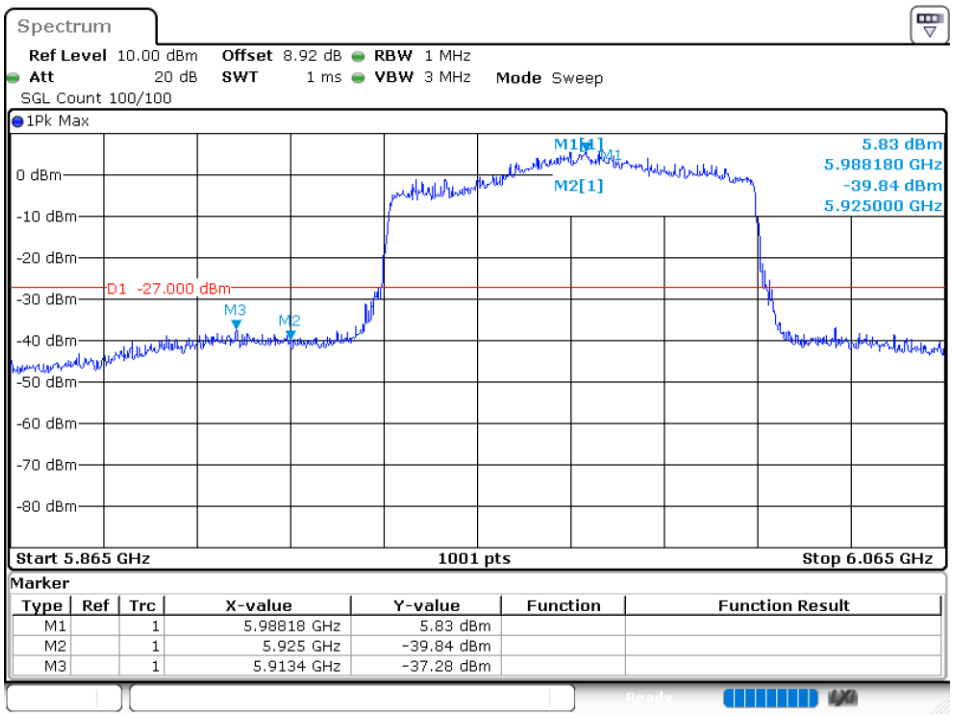
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	6.40965 GHz	2.71 dBm		
M2		1	7.125 GHz	-50.83 dBm		
M3		1	7.243805 GHz	-48.36 dBm		

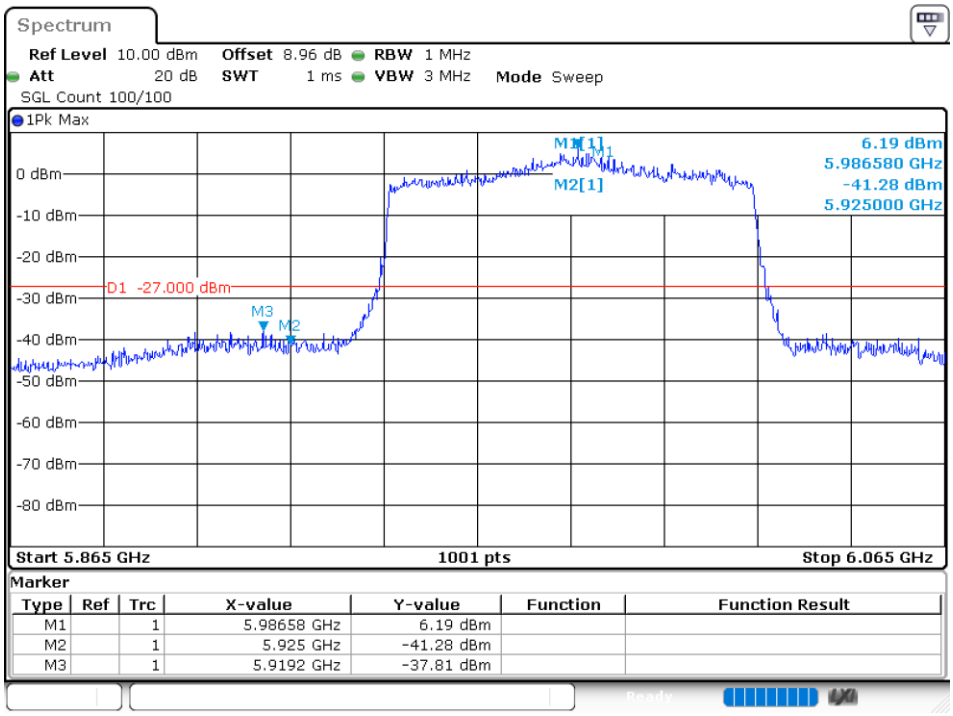
Band Edge NVNT ax80 5985MHz Low Ant1



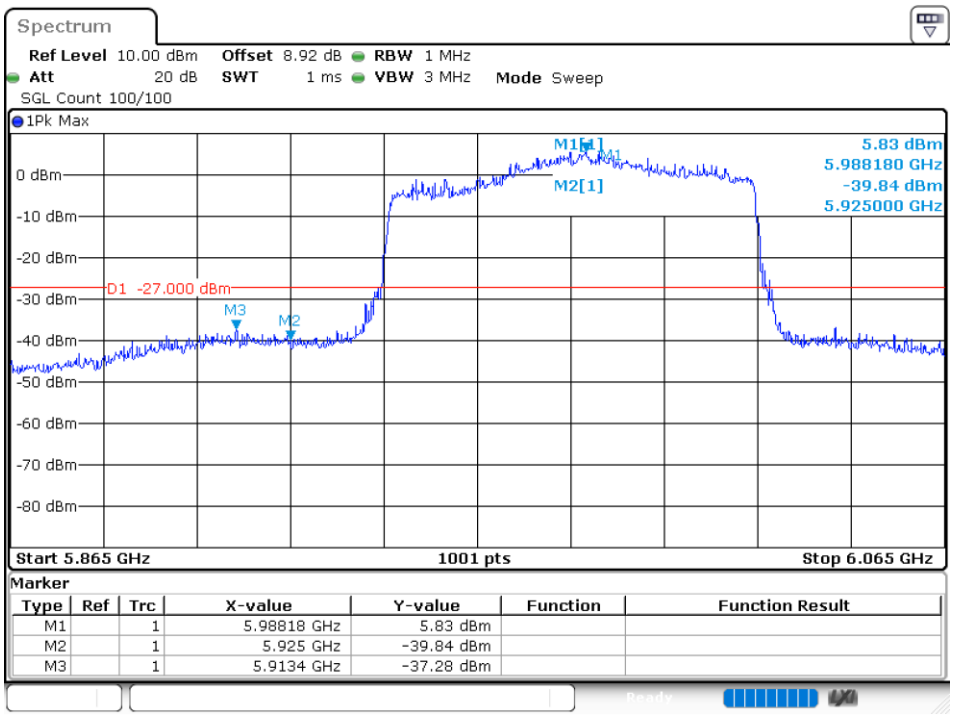
Band Edge NVNT ax80 5985MHz Low Ant2



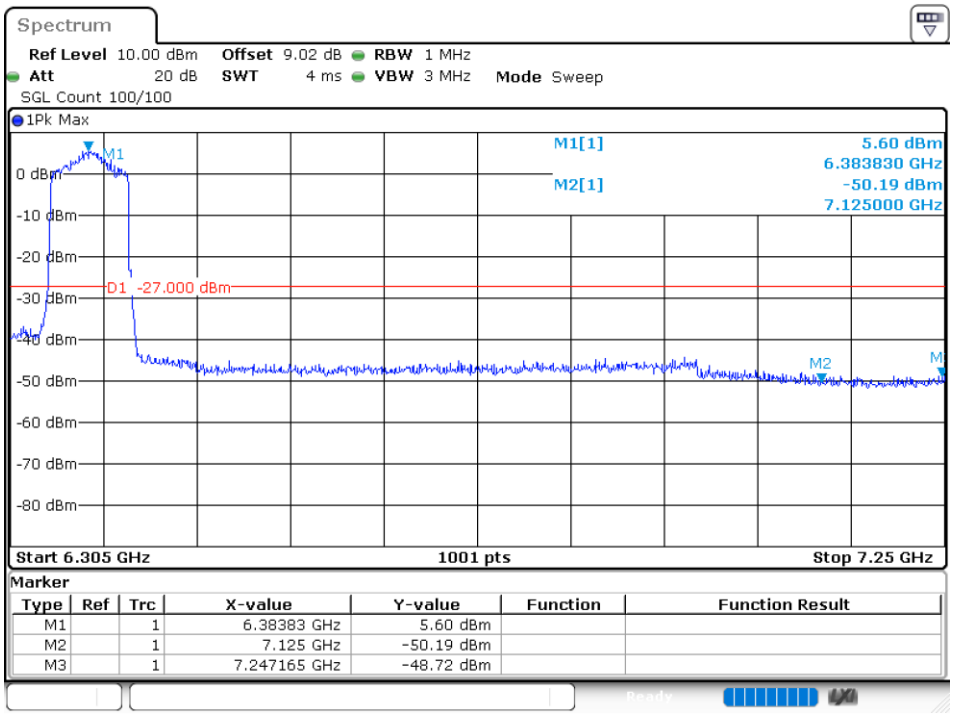
Band Edge NVNT ax80 5985MHz Low Ant1



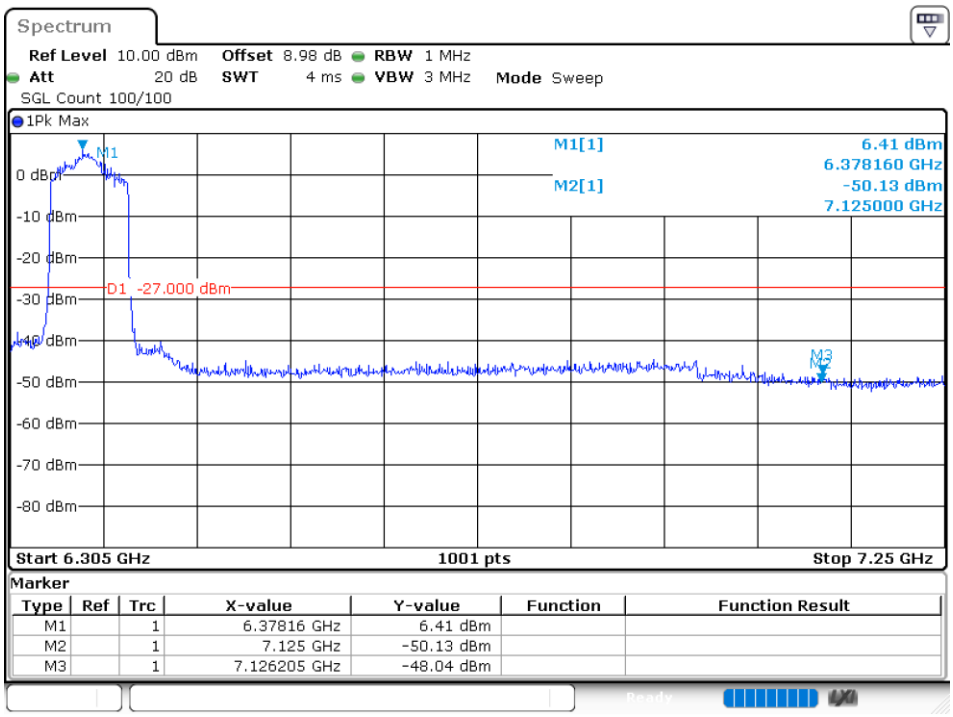
Band Edge NVNT ax80 5985MHz Low Ant2



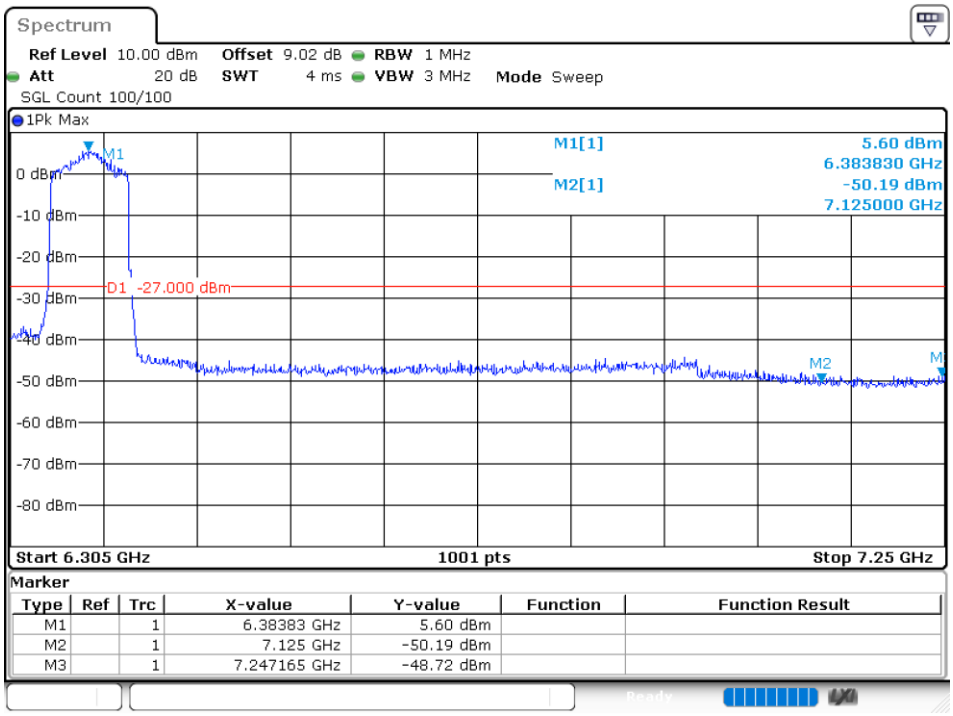
Band Edge NVNT ax80 6385MHz High Ant1



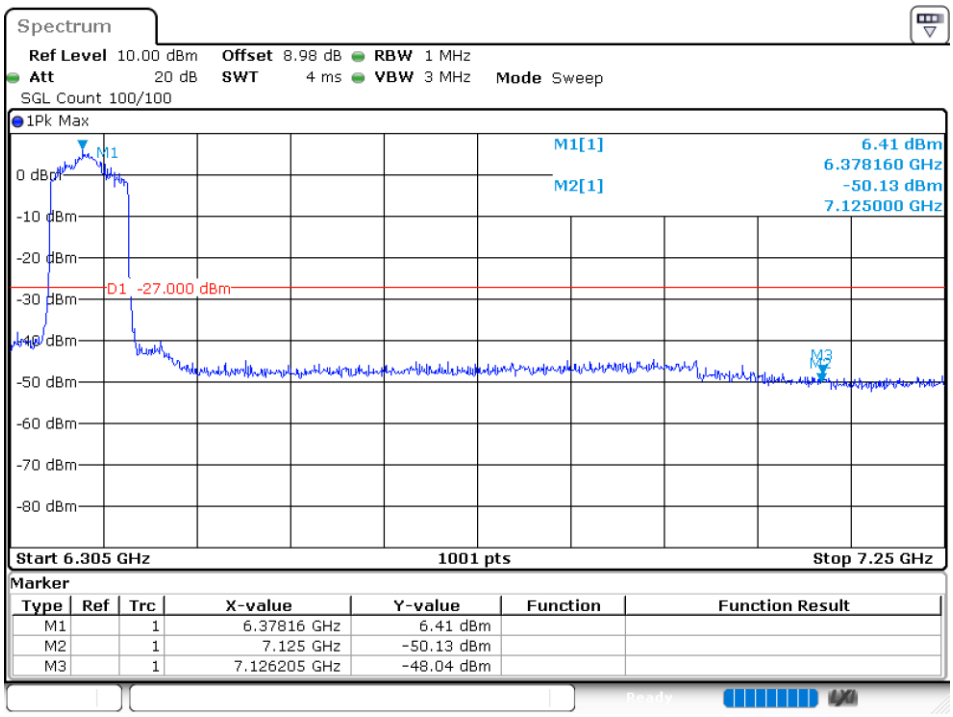
Band Edge NVNT ax80 6385MHz High Ant2



Band Edge NVNT ax80 6385MHz High Ant1

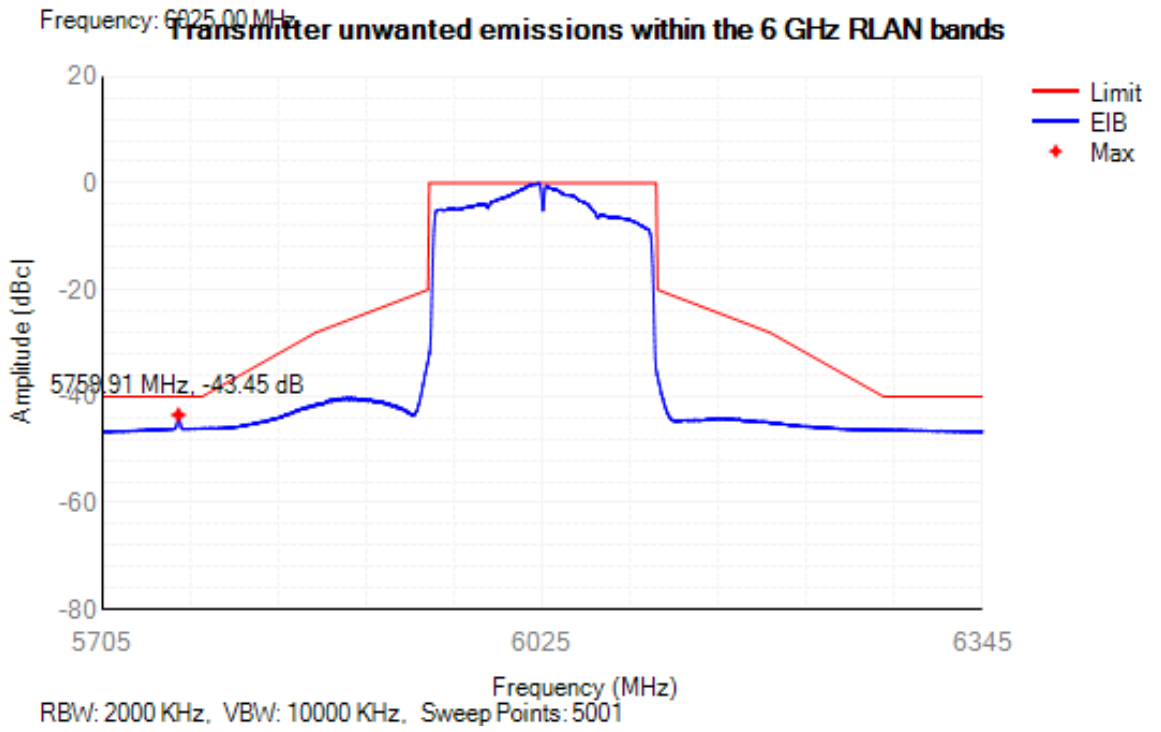
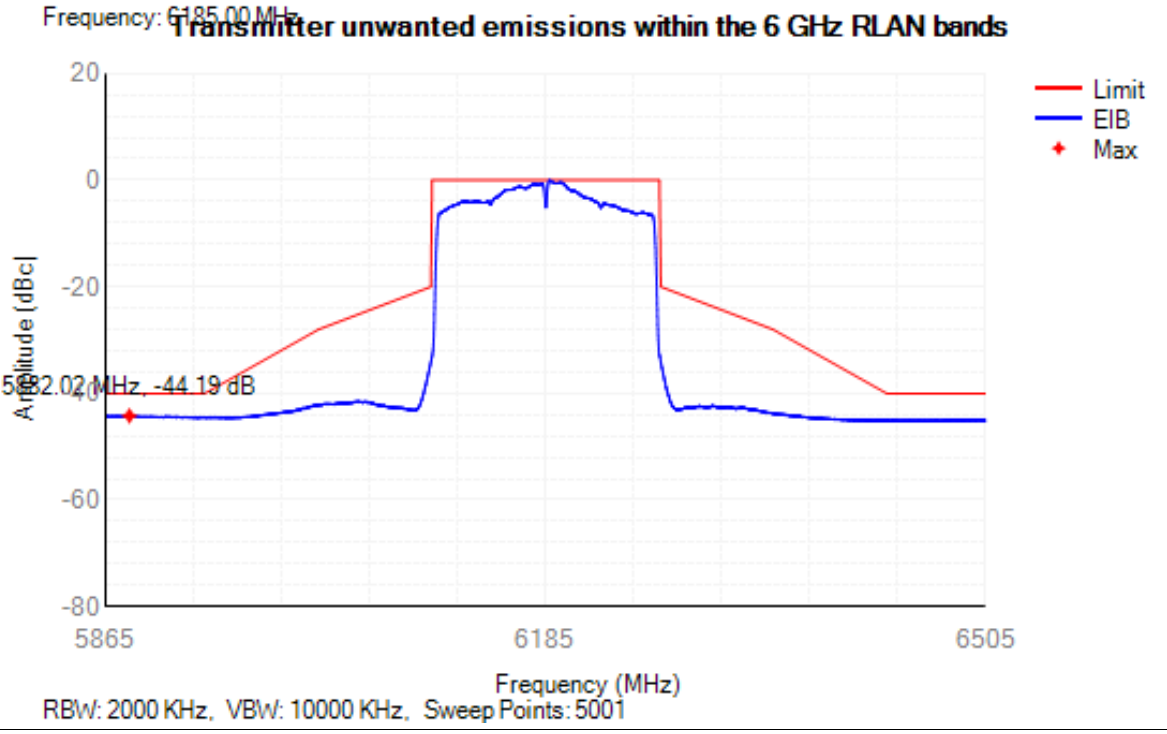


Band Edge NVNT ax80 6385MHz High Ant2

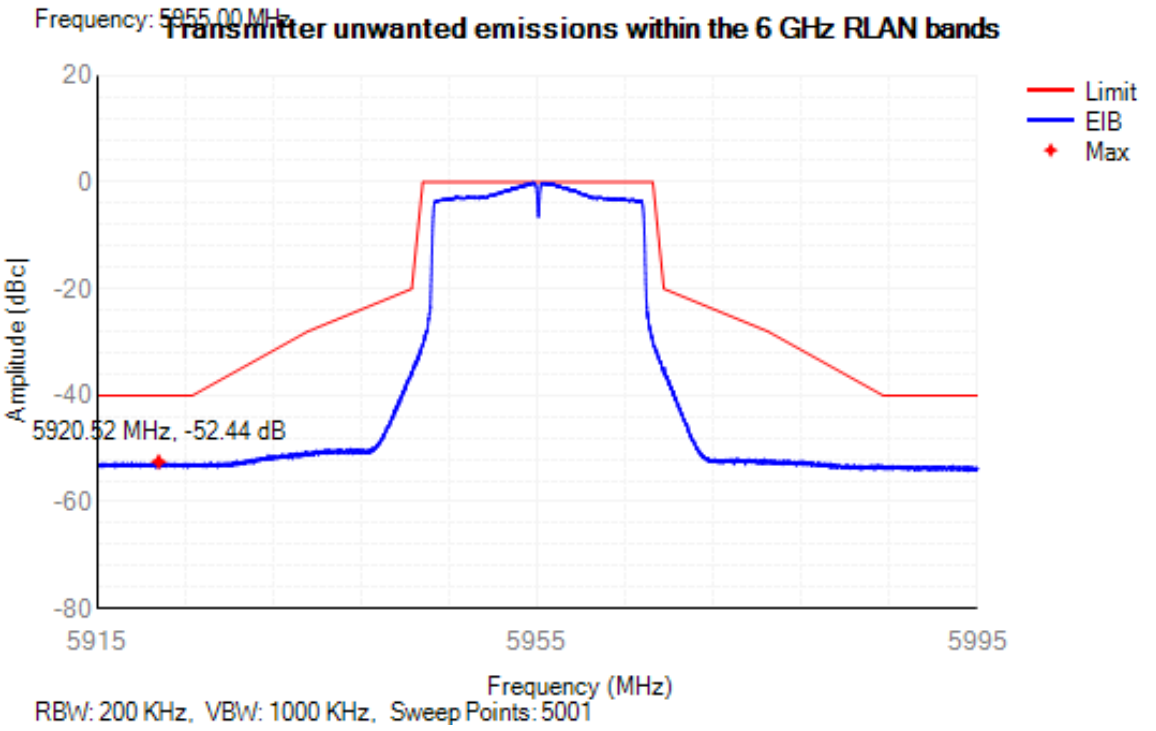


Power spectral mask

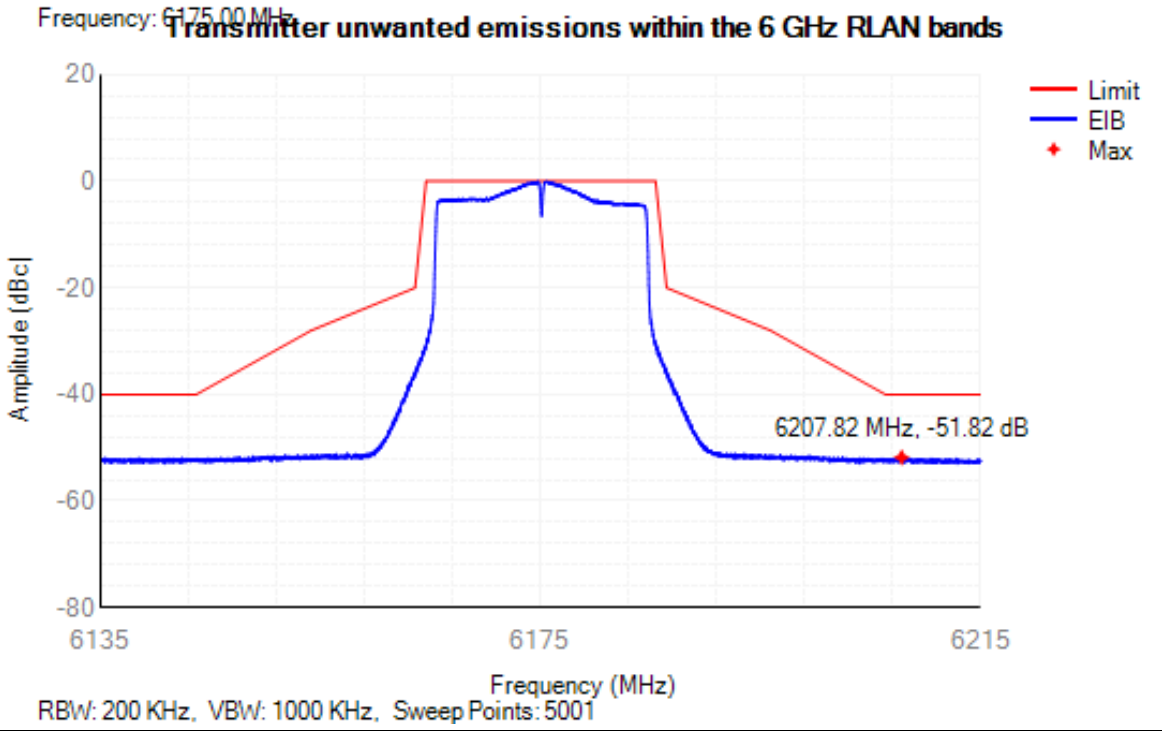
Condition	Mode	Frequency (MHz)	Antenna	Sub Band	Worst EIB Frequency (MHz)	Level (dB)	Limit (dB)	Verdict
NVNT	ax160	6025	Sum	Band1	5759.91	-43.45	-40	Pass
NVNT	ax160	6185	Sum	Band1	5882.02	-44.19	-40	Pass
NVNT	ax20	5955	Sum	Band1	5920.52	-52.44	-40	Pass
NVNT	ax20	6175	Sum	Band1	6207.82	-51.82	-40	Pass
NVNT	ax20	6415	Sum	Band1	6381.4	-52.01	-40	Pass
NVNT	ax40	5965	Sum	Band1	5900.9	-49.1	-40	Pass
NVNT	ax40	6165	Sum	Band1	6227.62	-48.52	-40	Pass
NVNT	ax40	6405	Sum	Band1	6326.47	-41.64	-40	Pass
NVNT	ax80	5985	Sum	Band1	5854.25	-47.87	-40	Pass
NVNT	ax80	6145	Sum	Band1	6267.75	-46.71	-40	Pass
NVNT	ax80	6385	Sum	Band1	6261.42	-48.04	-40	Pass

Test Graphs
Power spectral mask NVNT ax160 6025MHz

Power spectral mask NVNT ax160 6185MHz


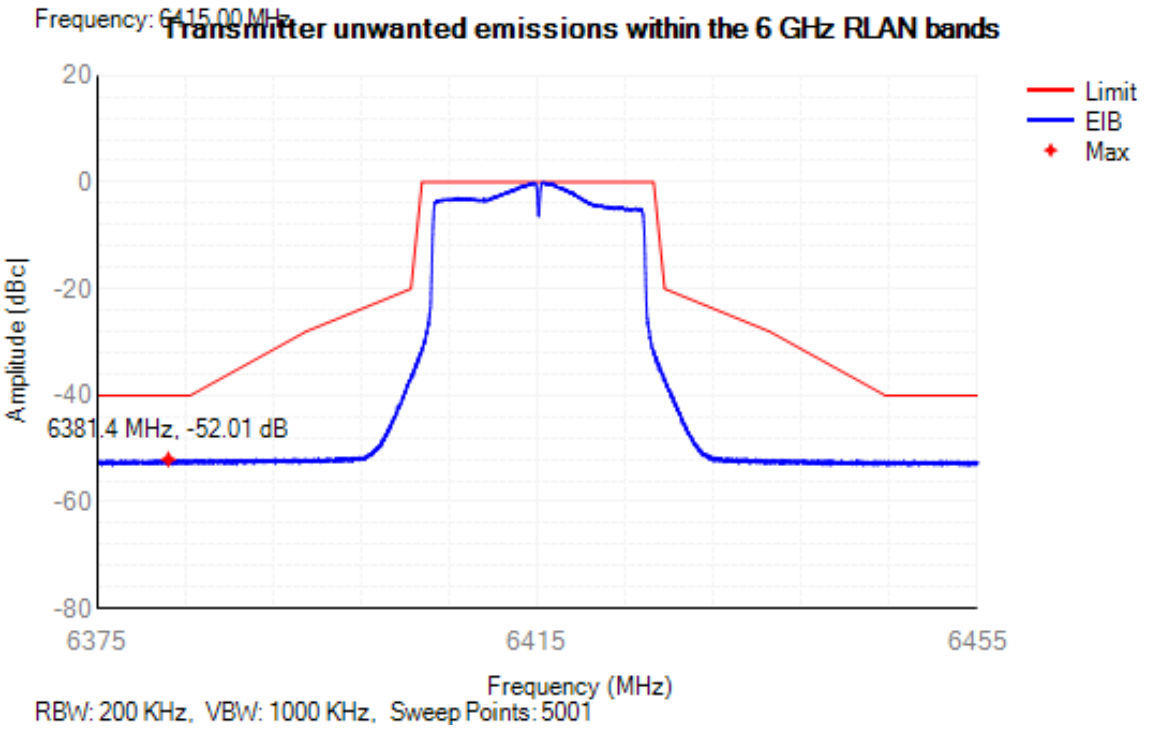
Power spectral mask NVNT ax20 5955MHz



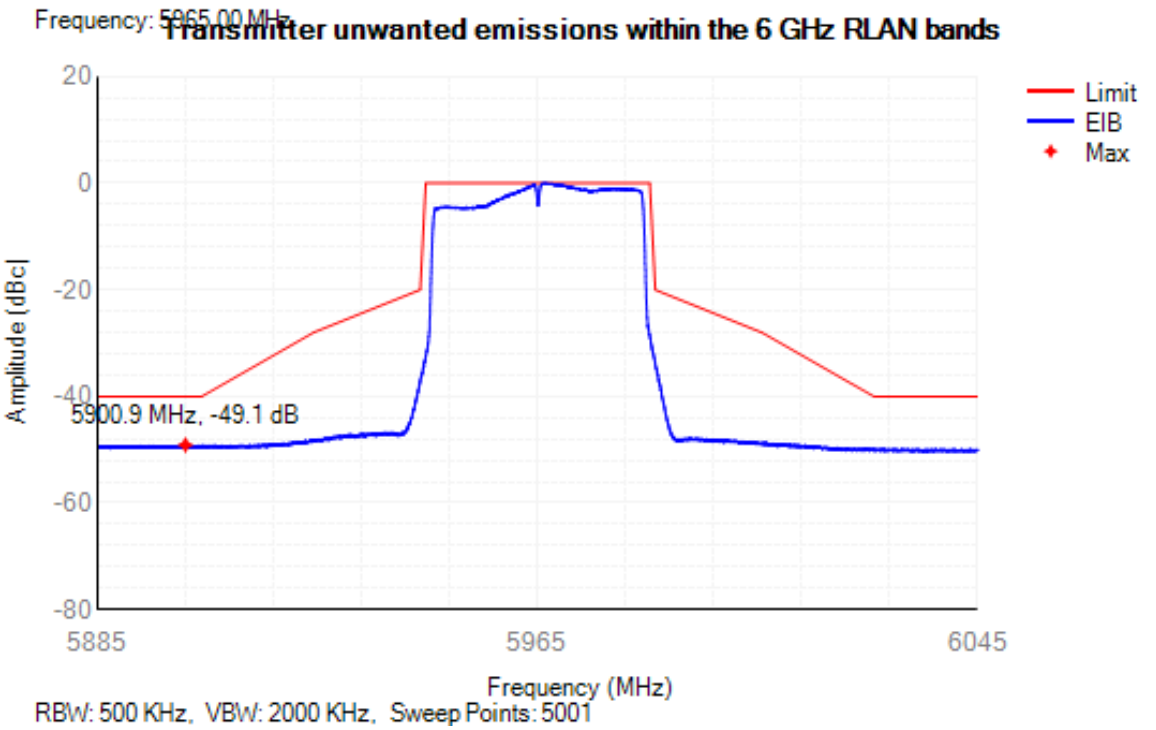
Power spectral mask NVNT ax20 6175MHz



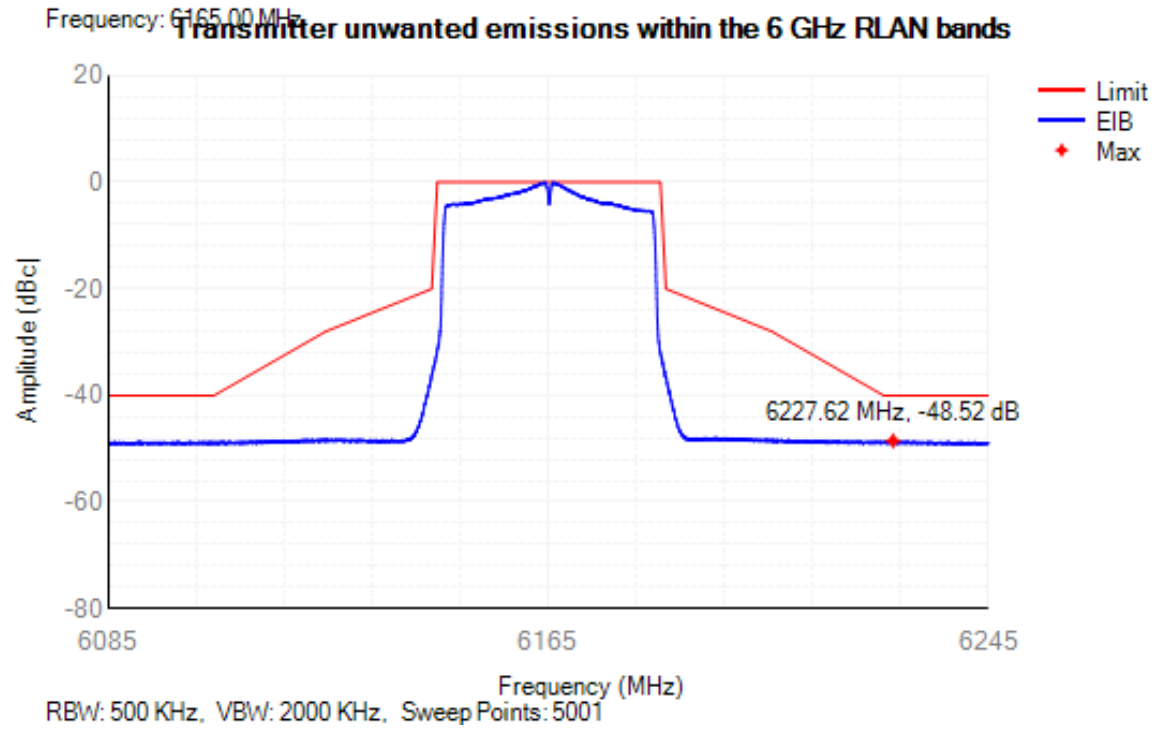
Power spectral mask NVNT ax20 6415MHz



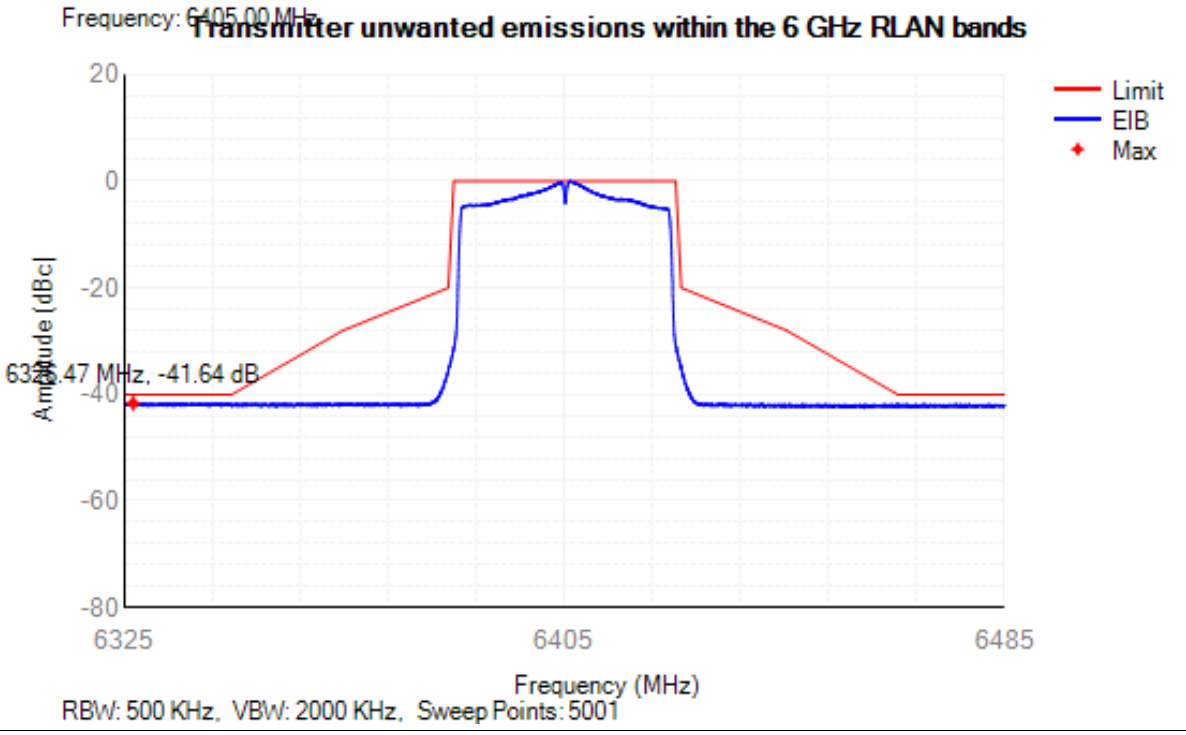
Power spectral mask NVNT ax40 5965MHz



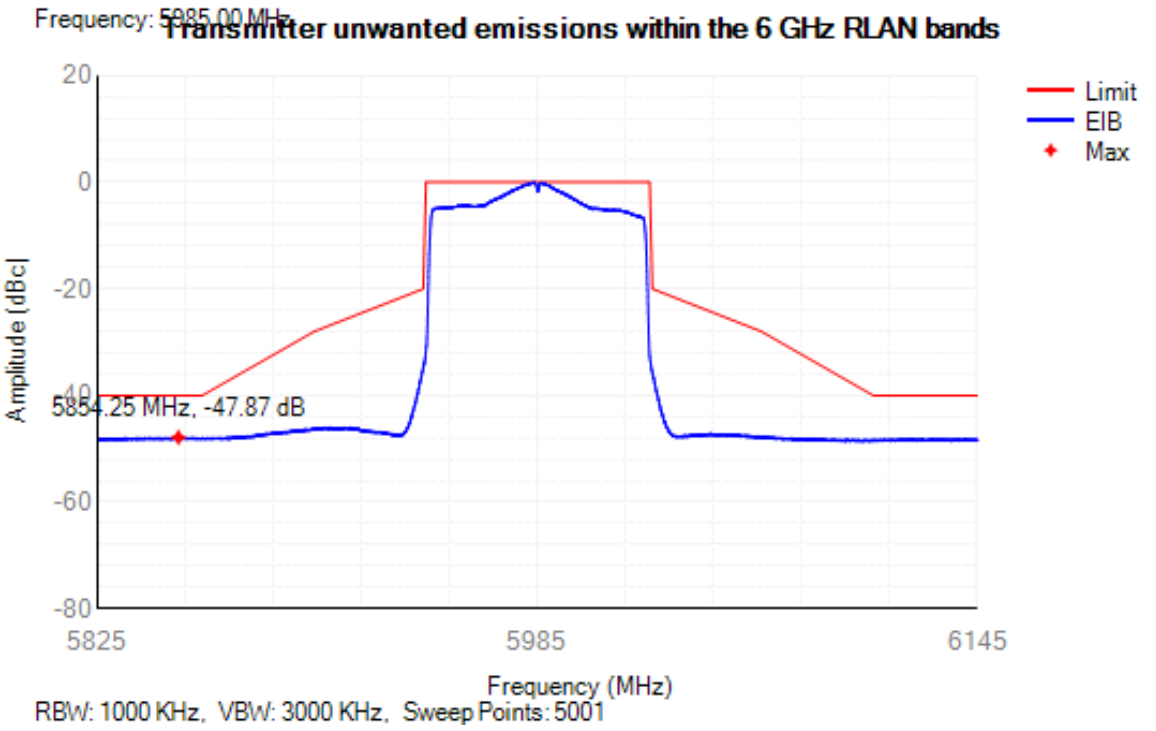
Power spectral mask NVNT ax40 6165MHz



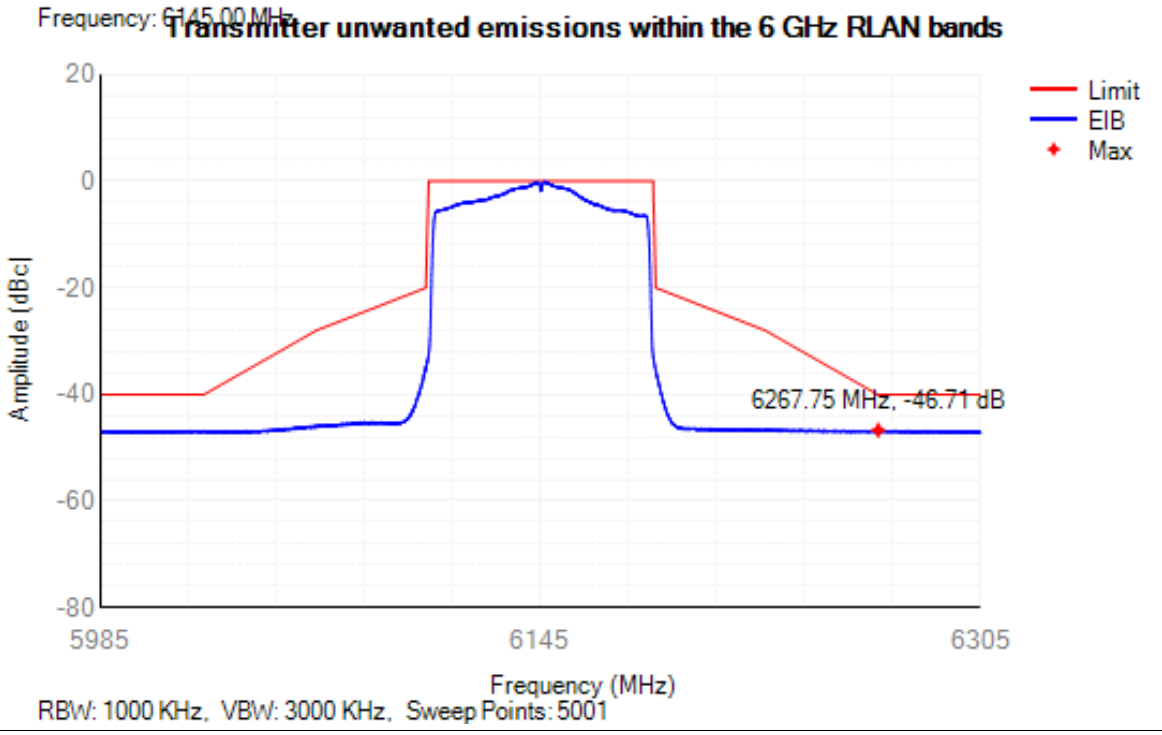
Power spectral mask NVNT ax40 6405MHz

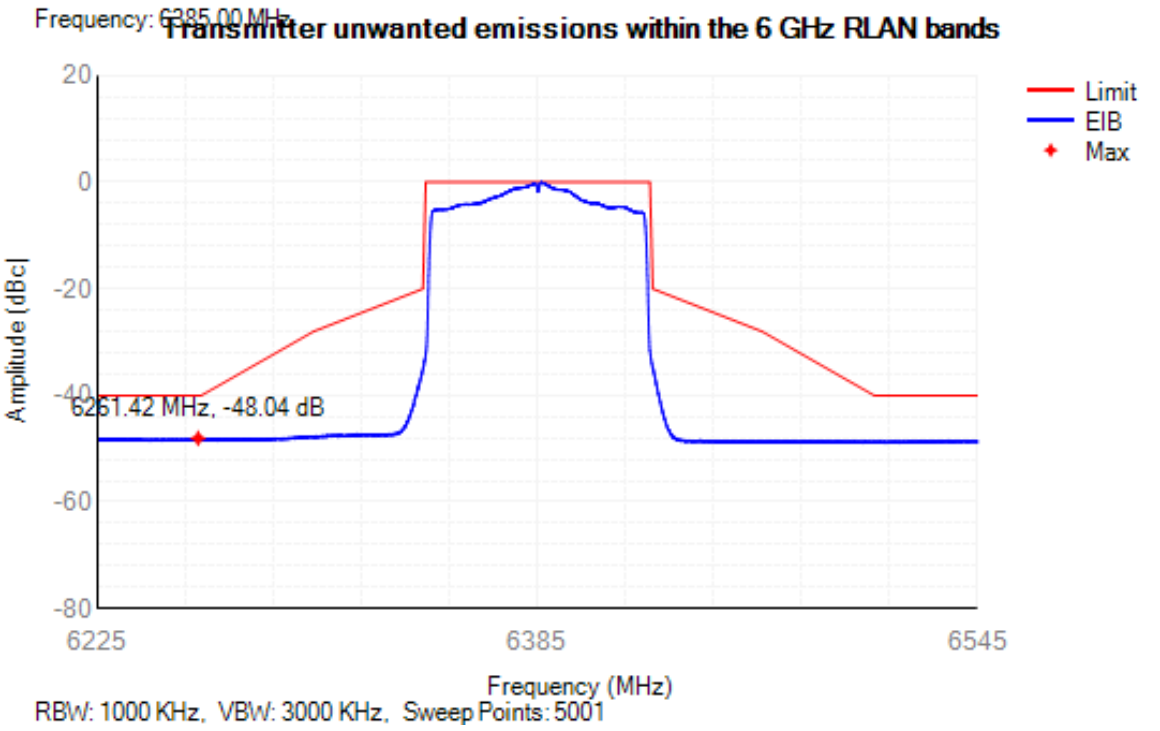


Power spectral mask NVNT ax80 5985MHz



Power spectral mask NVNT ax80 6145MHz



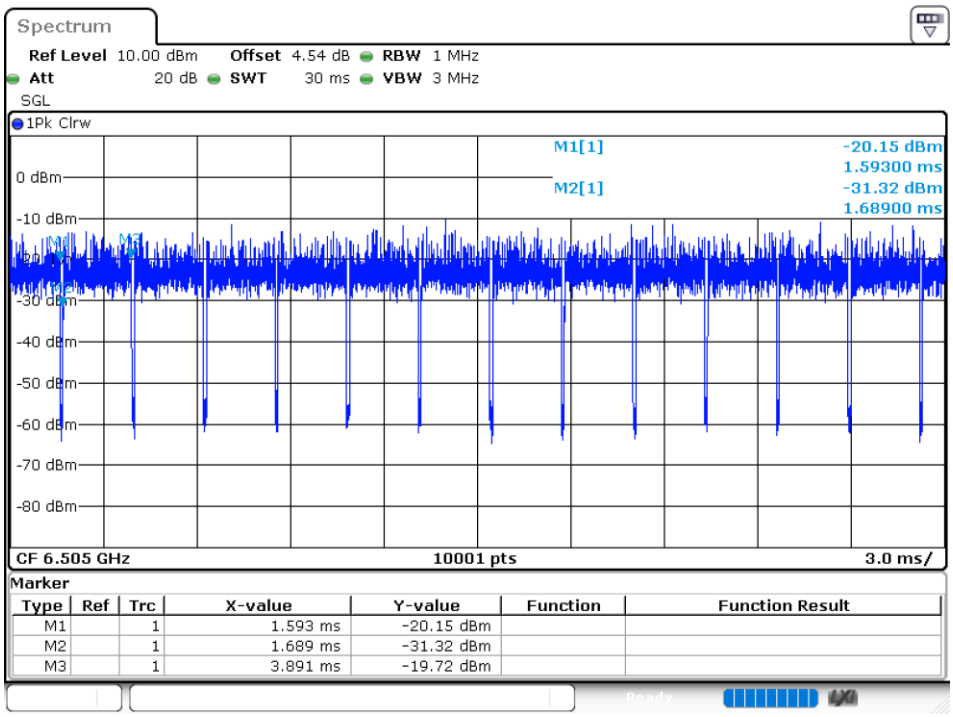
Power spectral mask NVNT ax80 6385MHz


6.5 WIFI

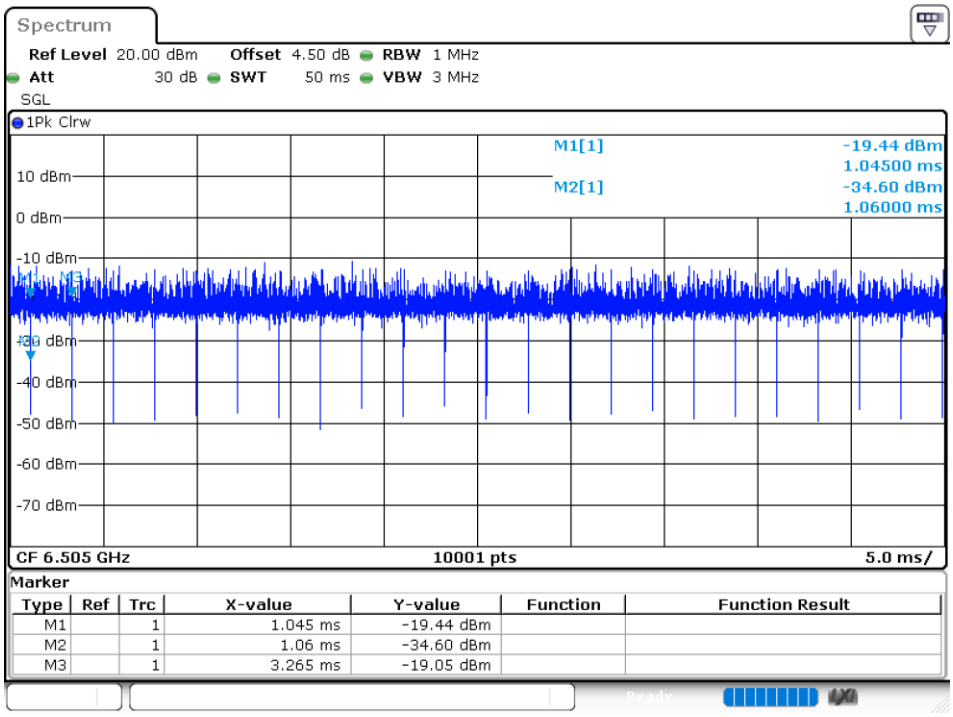
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax160	6505	Ant1	98.82	0	0.45
NVNT	ax160	6505	Ant2	99.32	0	0.45
NVNT	ax20	6435	Ant1	98.2	0	0.19
NVNT	ax20	6475	Ant1	98.25	0	0.19
NVNT	ax20	6515	Ant1	98.2	0	0.19
NVNT	ax20	6435	Ant2	98.2	0	0.19
NVNT	ax20	6475	Ant2	98.25	0	0.19
NVNT	ax20	6515	Ant2	98.2	0	0.19
NVNT	ax40	6445	Ant1	98.25	0	0.19
NVNT	ax40	6485	Ant1	98.26	0	0.18
NVNT	ax40	6525	Ant1	98.26	0	0.18
NVNT	ax40	6445	Ant2	98.26	0	0.18
NVNT	ax40	6485	Ant2	98.25	0	0.19
NVNT	ax40	6525	Ant2	98.26	0	0.18
NVNT	ax80	6465	Ant1	98.64	0	0.33
NVNT	ax80	6465	Ant2	99.5	0	0.33

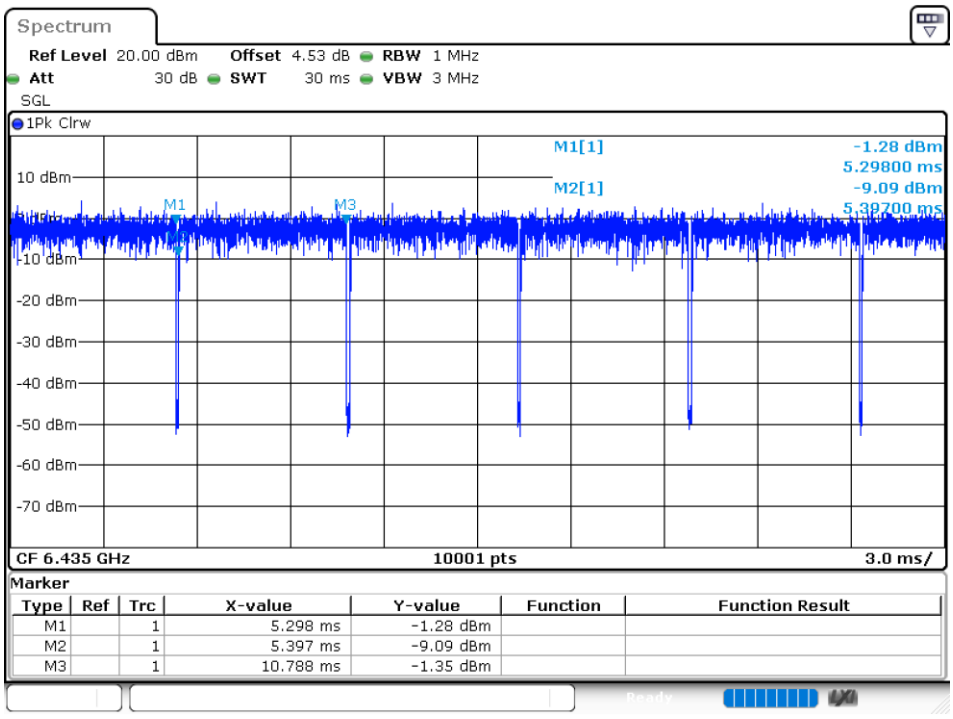
Test Graphs
Duty Cycle NVNT ax160 6505MHz Ant1



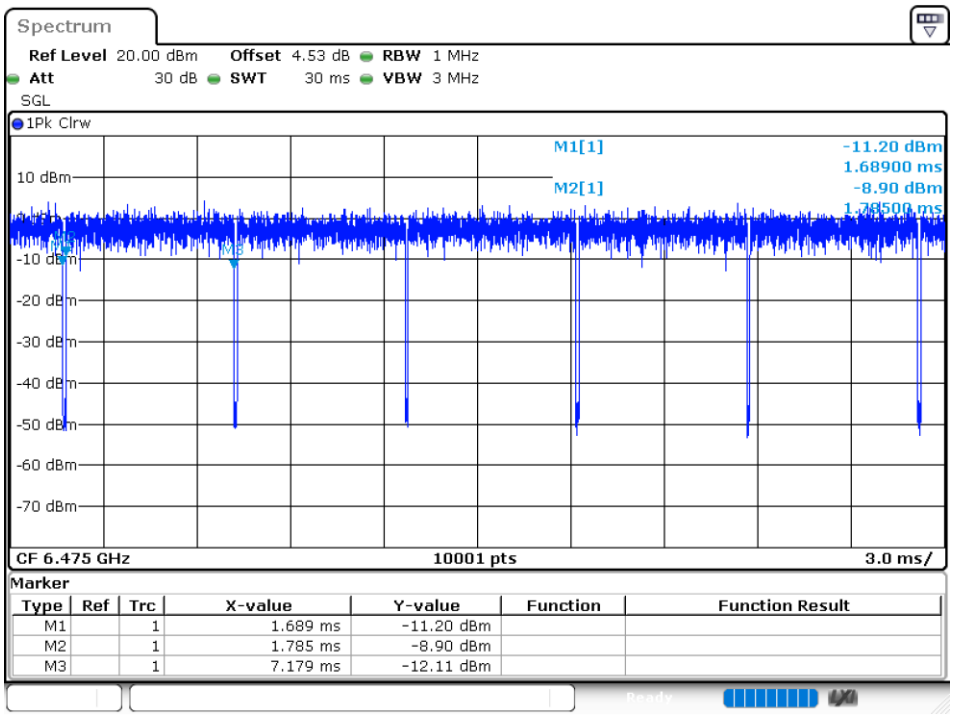
Duty Cycle NVNT ax160 6505MHz Ant2



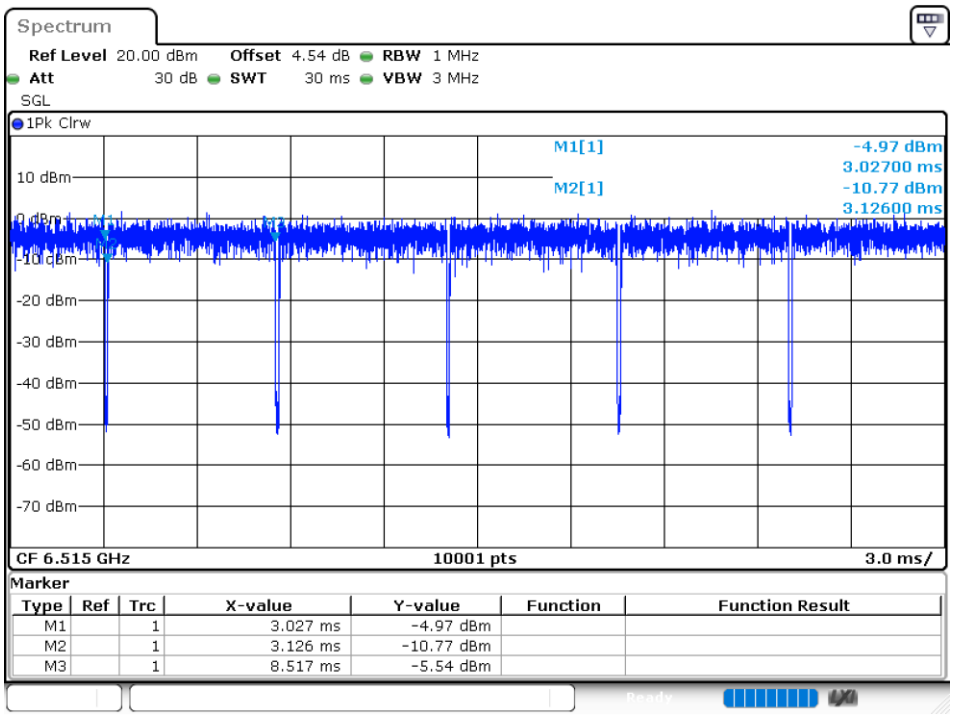
Duty Cycle NVNT ax20 6435MHz Ant1



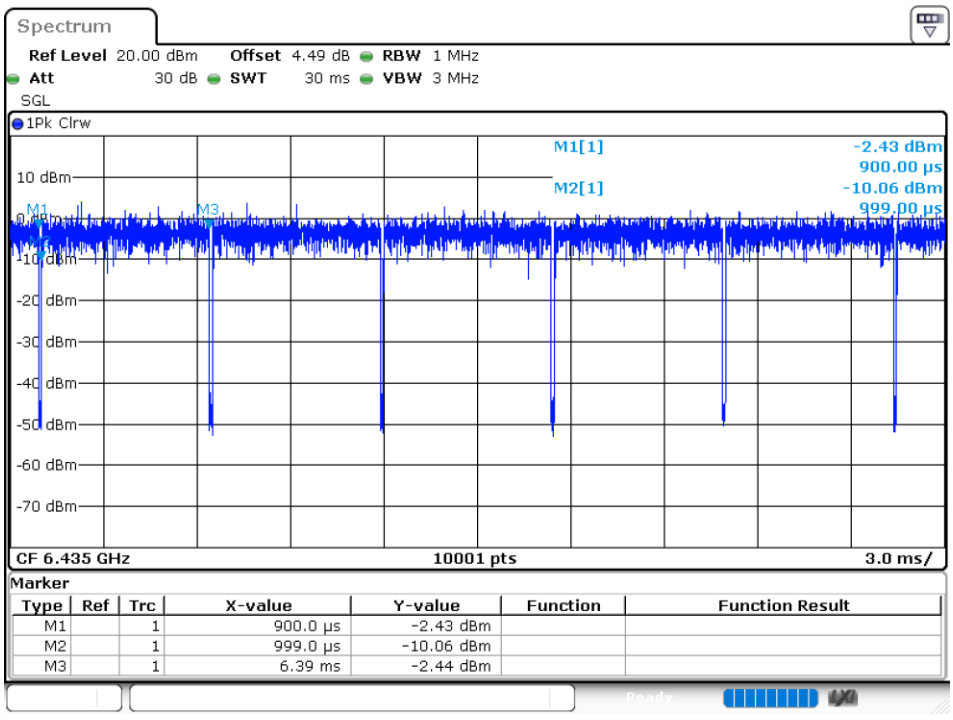
Duty Cycle NVNT ax20 6475MHz Ant1



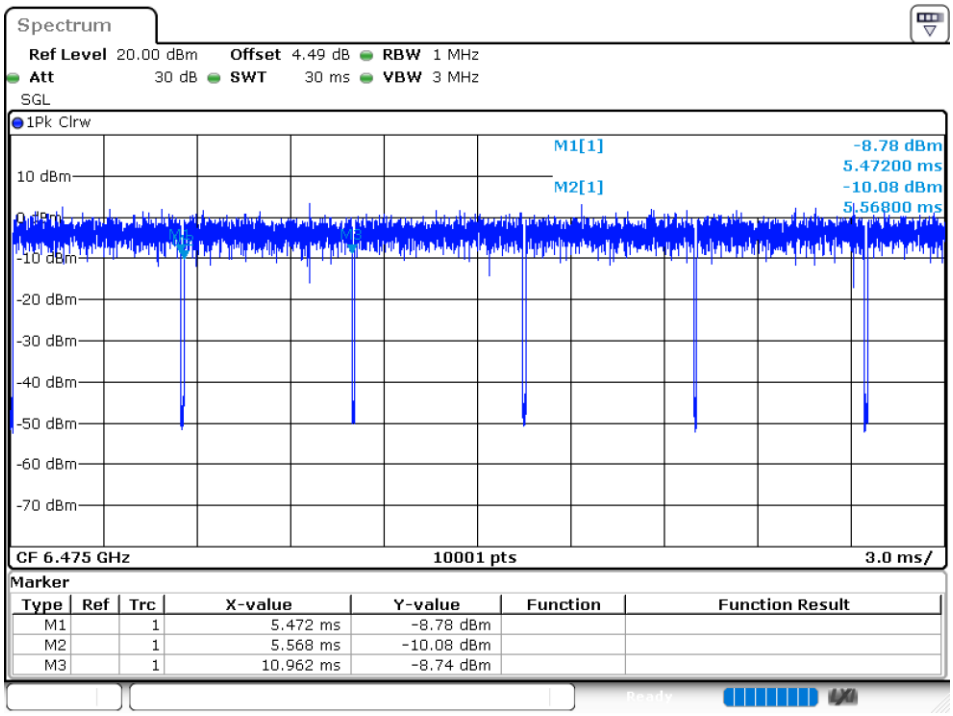
Duty Cycle NVNT ax20 6515MHz Ant1



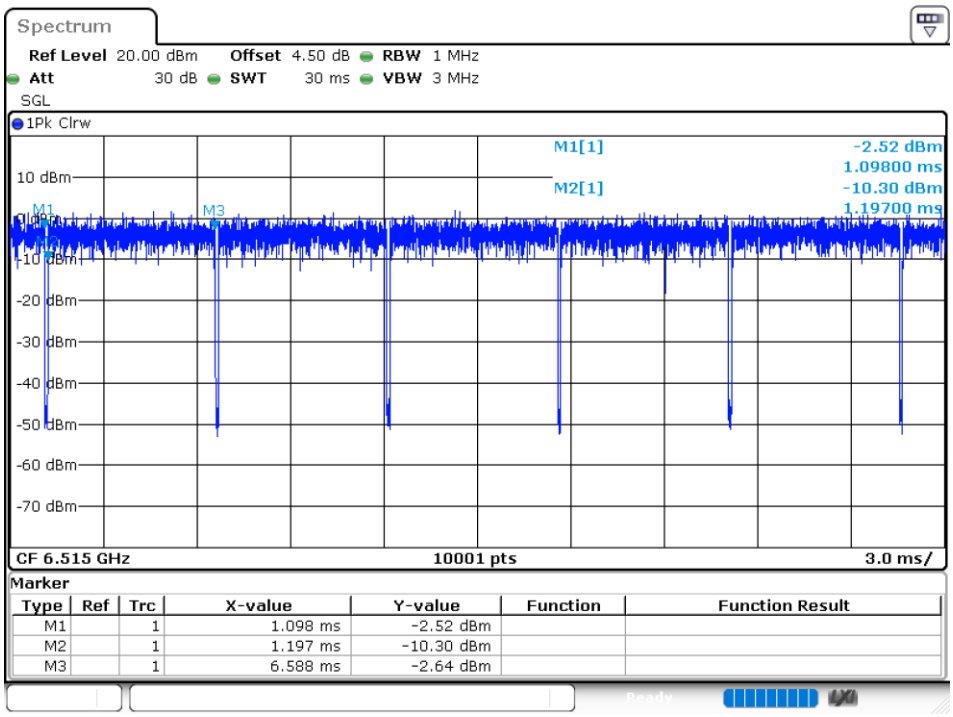
Duty Cycle NVNT ax20 6435MHz Ant2



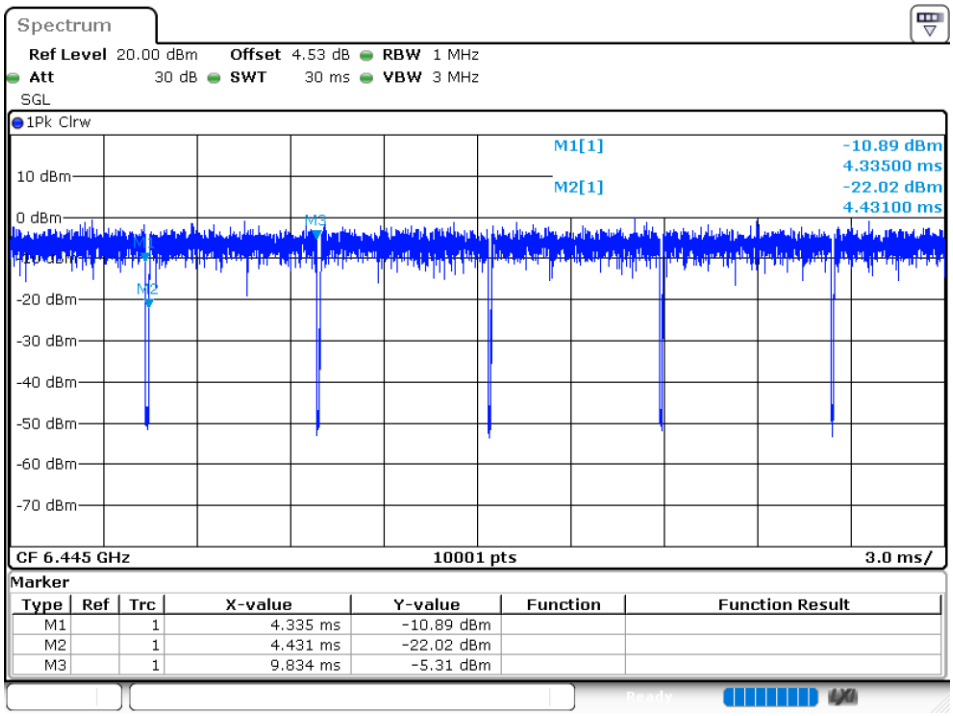
Duty Cycle NVNT ax20 6475MHz Ant2



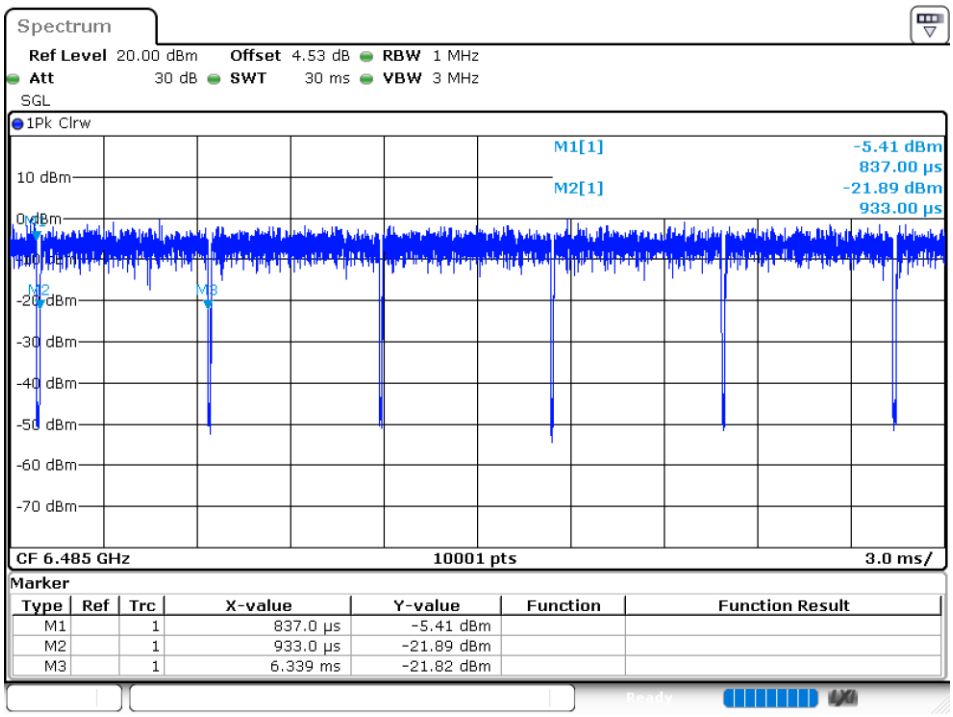
Duty Cycle NVNT ax20 6515MHz Ant2



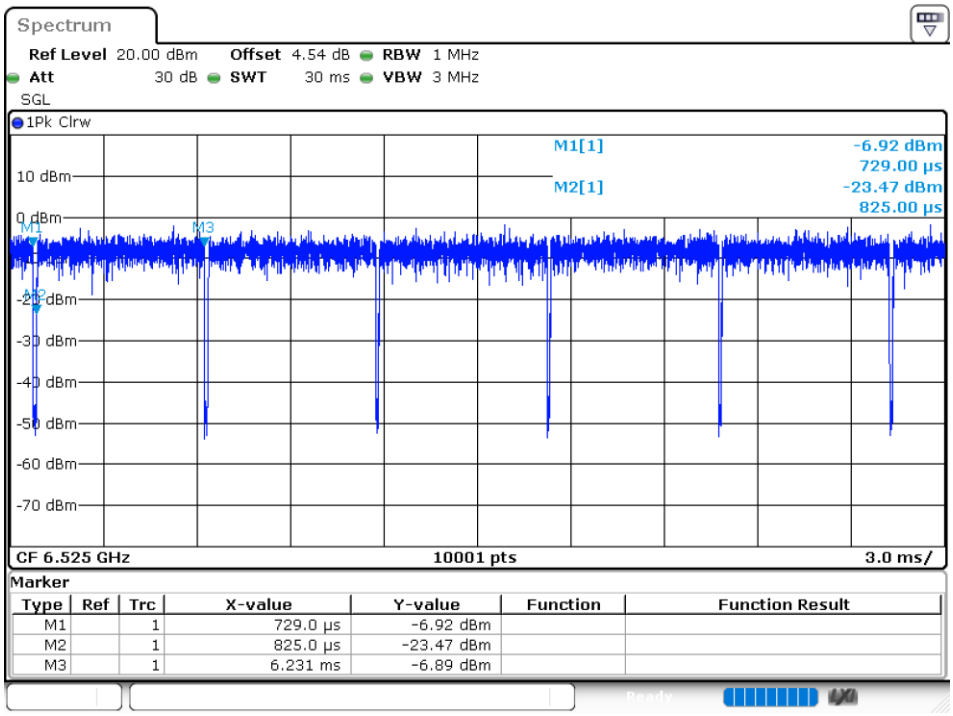
Duty Cycle NVNT ax40 6445MHz Ant1



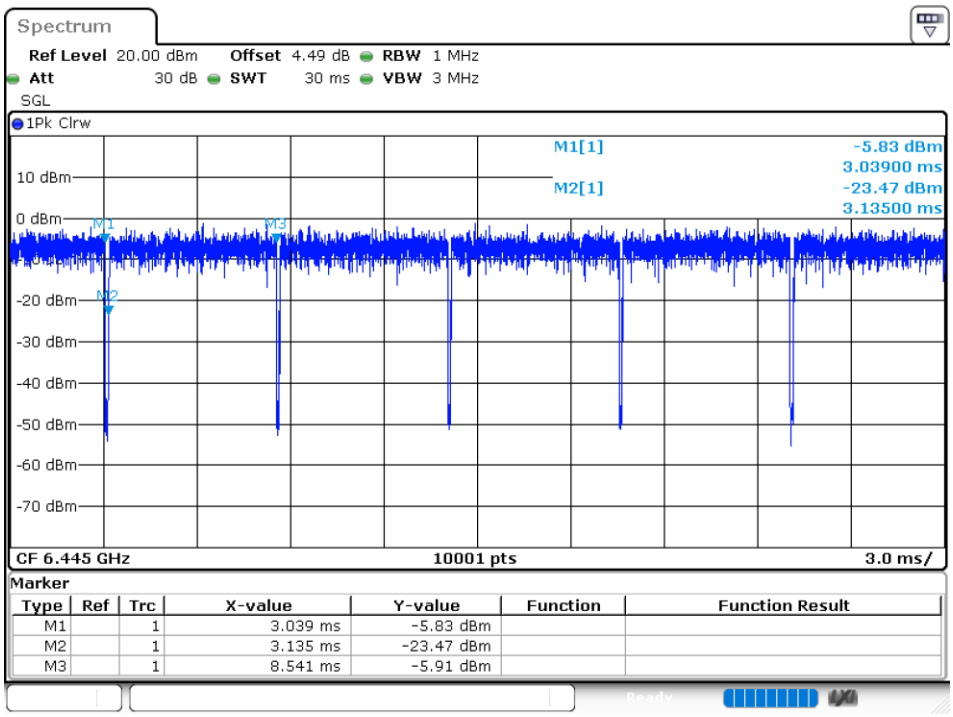
Duty Cycle NVNT ax40 6485MHz Ant1



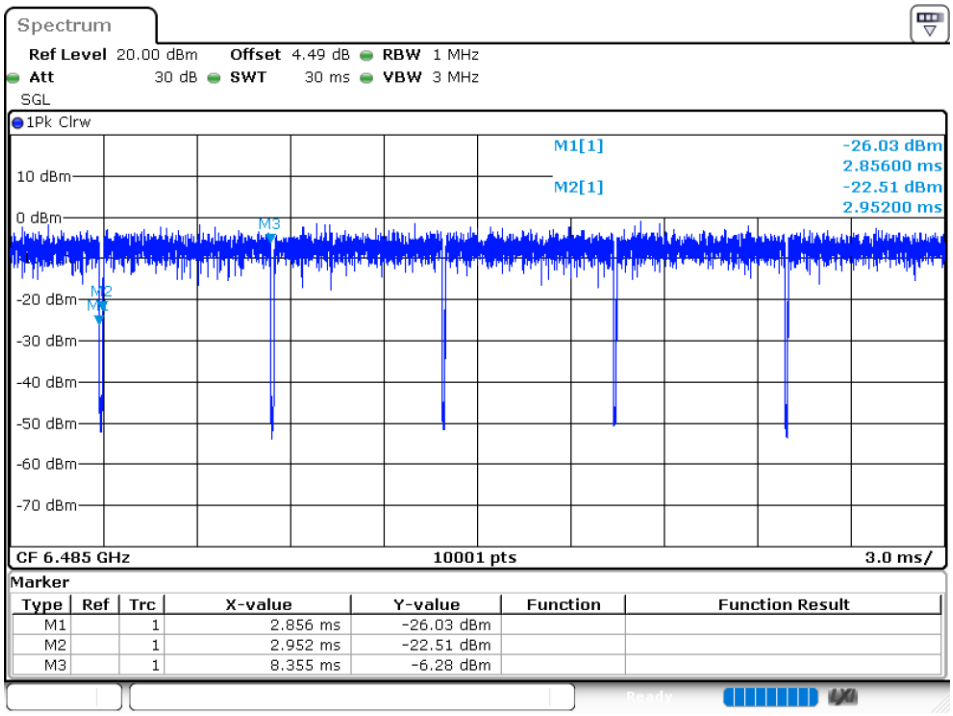
Duty Cycle NVNT ax40 6525MHz Ant1



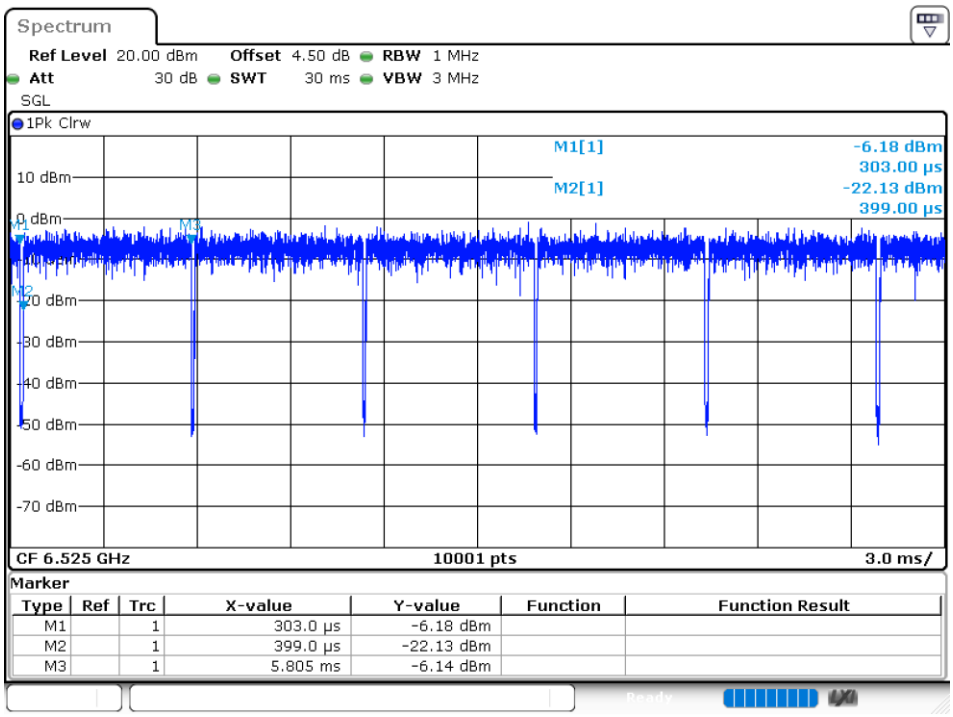
Duty Cycle NVNT ax40 6445MHz Ant2



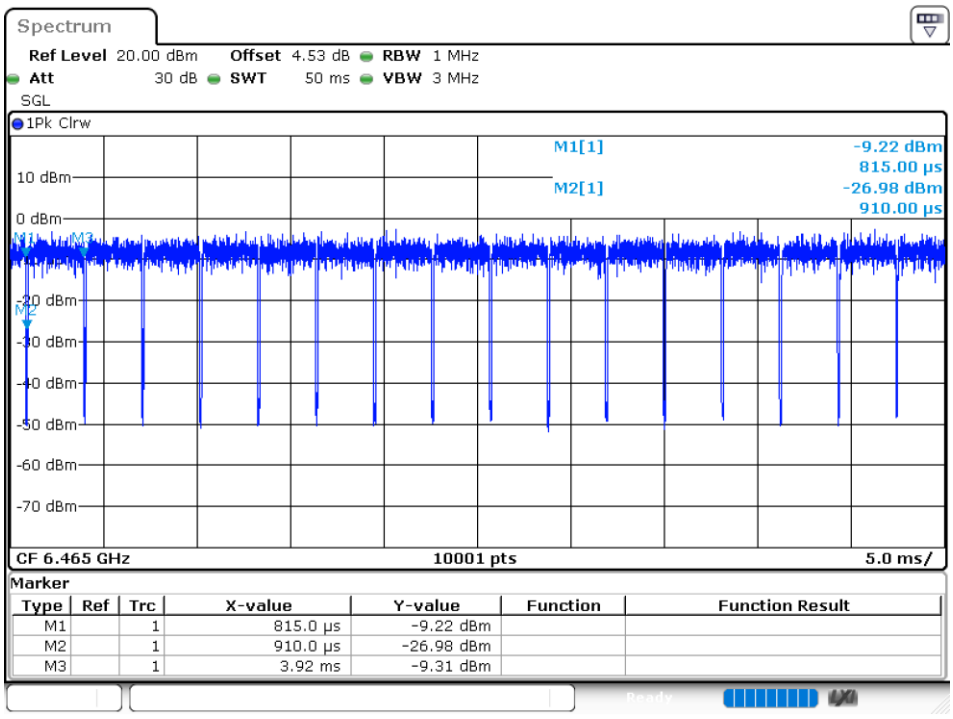
Duty Cycle NVNT ax40 6485MHz Ant2



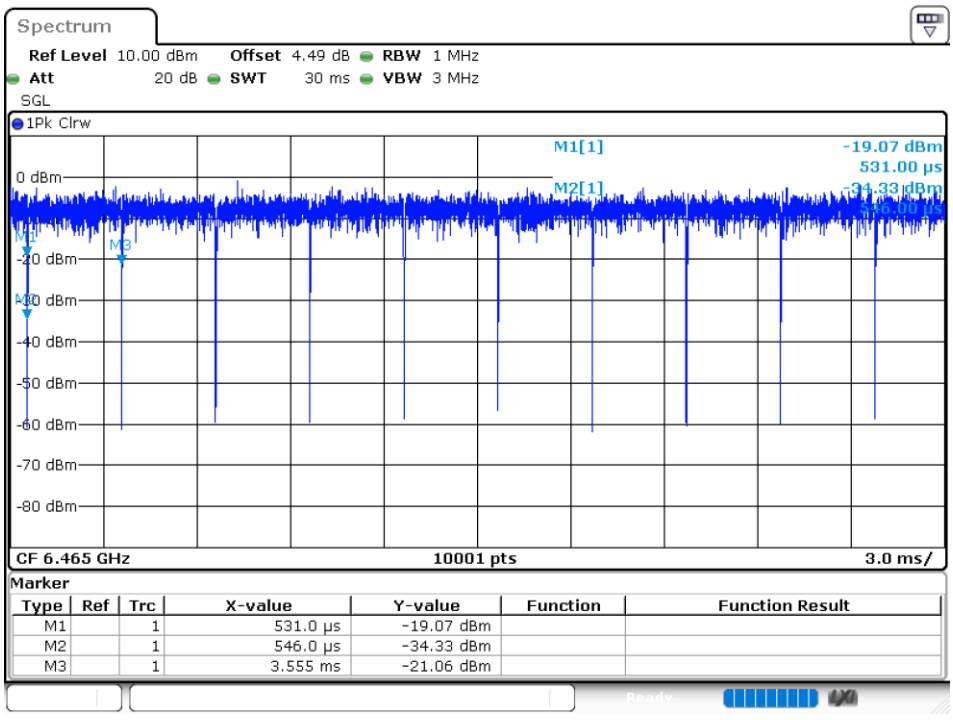
Duty Cycle NVNT ax40 6525MHz Ant2



Duty Cycle NVNT ax80 6465MHz Ant1



Duty Cycle NVNT ax80 6465MHz Ant2



Maximum Conducted Output Power

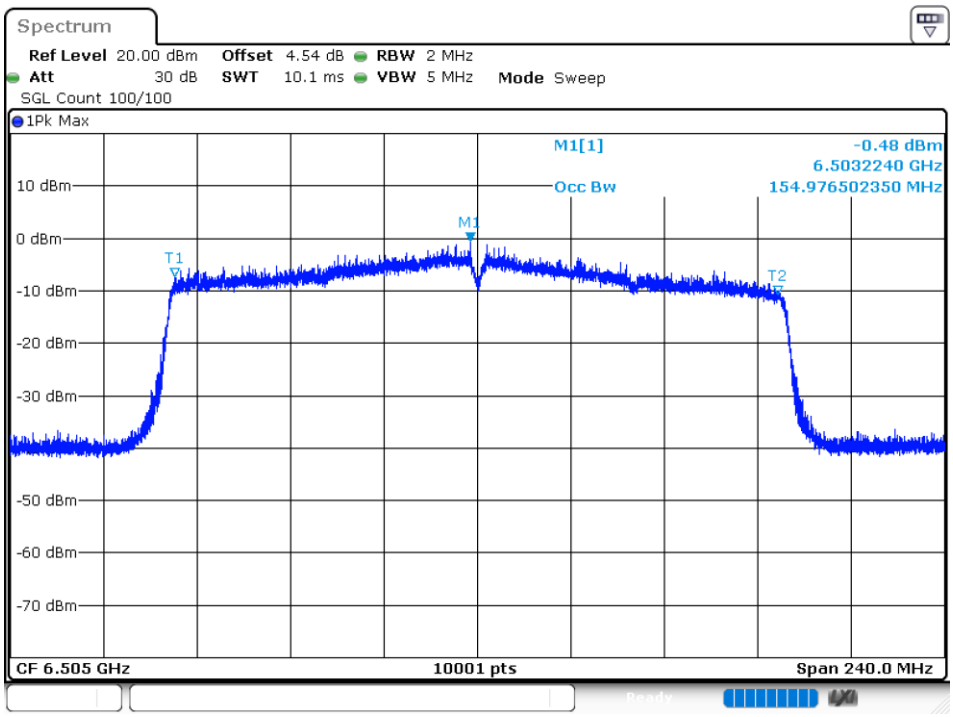
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Gain (dBi)	eirp Power	Limit (dBm)	Verdict
NVNT	ax160	6505	Ant1	9.97	4.5	14.47	24	Pass
NVNT	ax160	6505	Ant2	9.59	4.5	14.09	24	Pass
NVNT	ax20	6435	Ant1	5.68	4.5	10.18	24	Pass
NVNT	ax20	6475	Ant1	5.58	4.5	10.08	24	Pass
NVNT	ax20	6515	Ant1	4.88	4.5	9.38	24	Pass
NVNT	ax20	6435	Ant2	6.01	4.5	10.51	24	Pass
NVNT	ax20	6475	Ant2	5.81	4.5	10.31	24	Pass
NVNT	ax20	6515	Ant2	5.73	4.5	10.23	24	Pass
NVNT	ax40	6445	Ant1	5.63	4.5	10.13	24	Pass
NVNT	ax40	6485	Ant1	5.58	4.5	10.08	24	Pass
NVNT	ax40	6525	Ant1	4.8	4.5	9.3	24	Pass
NVNT	ax40	6445	Ant2	5.79	4.5	10.29	24	Pass
NVNT	ax40	6485	Ant2	5.69	4.5	10.19	24	Pass
NVNT	ax40	6525	Ant2	5.59	4.5	10.09	24	Pass
NVNT	ax80	6465	Ant1	11.06	4.5	15.56	24	Pass
NVNT	ax80	6465	Ant2	10.78	4.5	15.28	24	Pass

Note: The Duty Cycle factor has already been included.

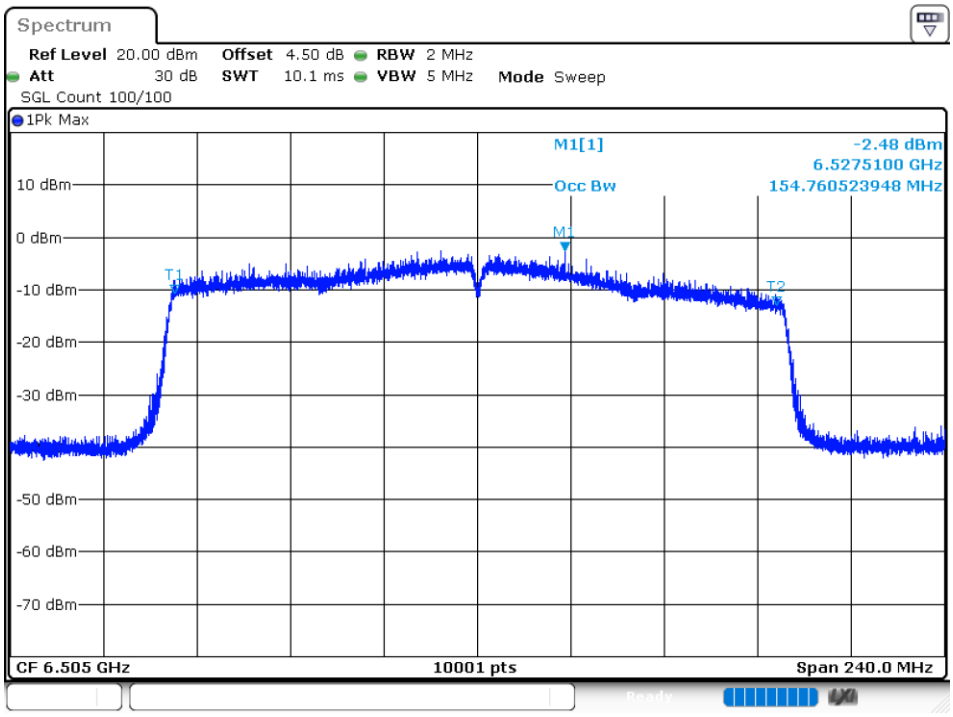
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax160	6505	Ant1	154.977
NVNT	ax160	6505	Ant2	154.761
NVNT	ax20	6435	Ant1	18.814
NVNT	ax20	6475	Ant1	18.823
NVNT	ax20	6515	Ant1	18.838
NVNT	ax20	6435	Ant2	18.874
NVNT	ax20	6475	Ant2	18.838
NVNT	ax20	6515	Ant2	18.844
NVNT	ax40	6445	Ant1	37.604
NVNT	ax40	6485	Ant1	37.574
NVNT	ax40	6525	Ant1	37.628
NVNT	ax40	6445	Ant2	37.586
NVNT	ax40	6485	Ant2	37.562
NVNT	ax40	6525	Ant2	37.538
NVNT	ax80	6465	Ant1	76.636
NVNT	ax80	6465	Ant2	76.648

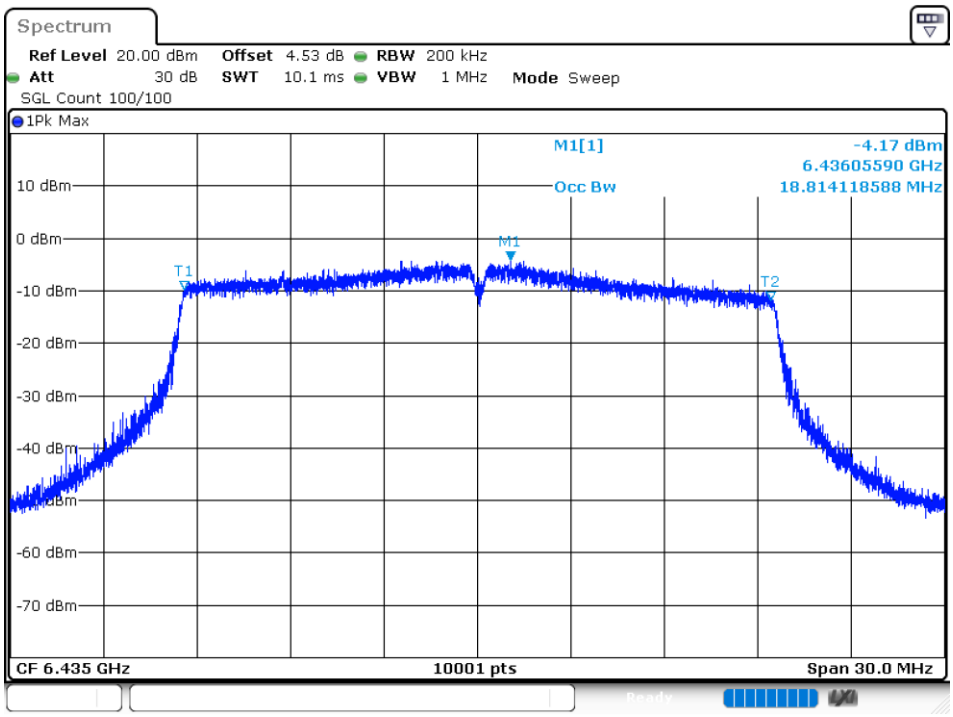
Test Graphs
OBW NVNT ax160 6505MHz Ant1



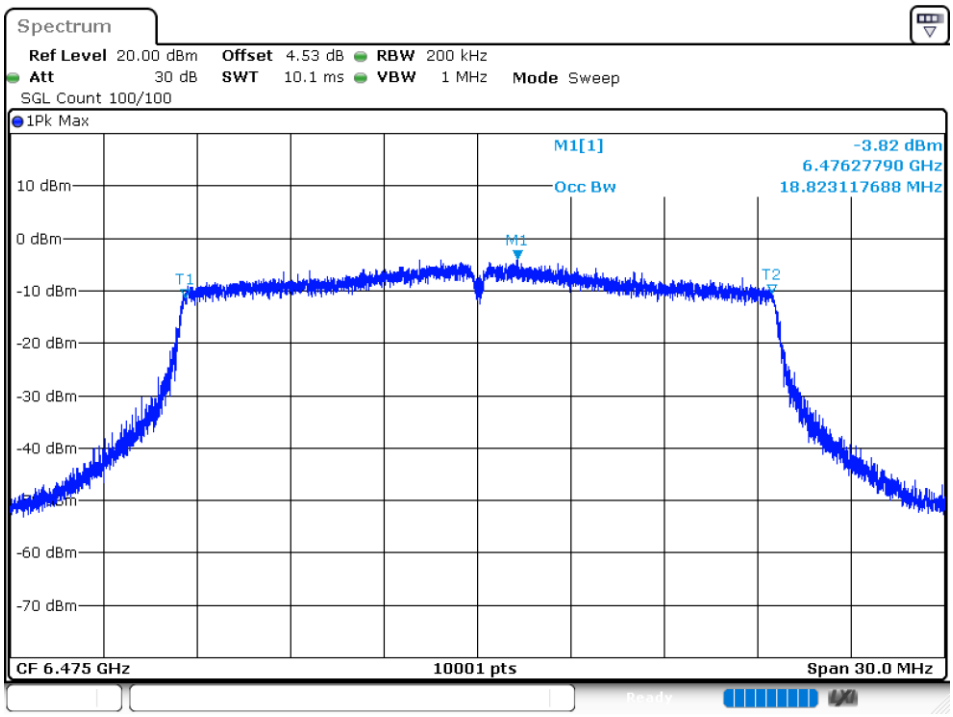
OBW NVNT ax160 6505MHz Ant2



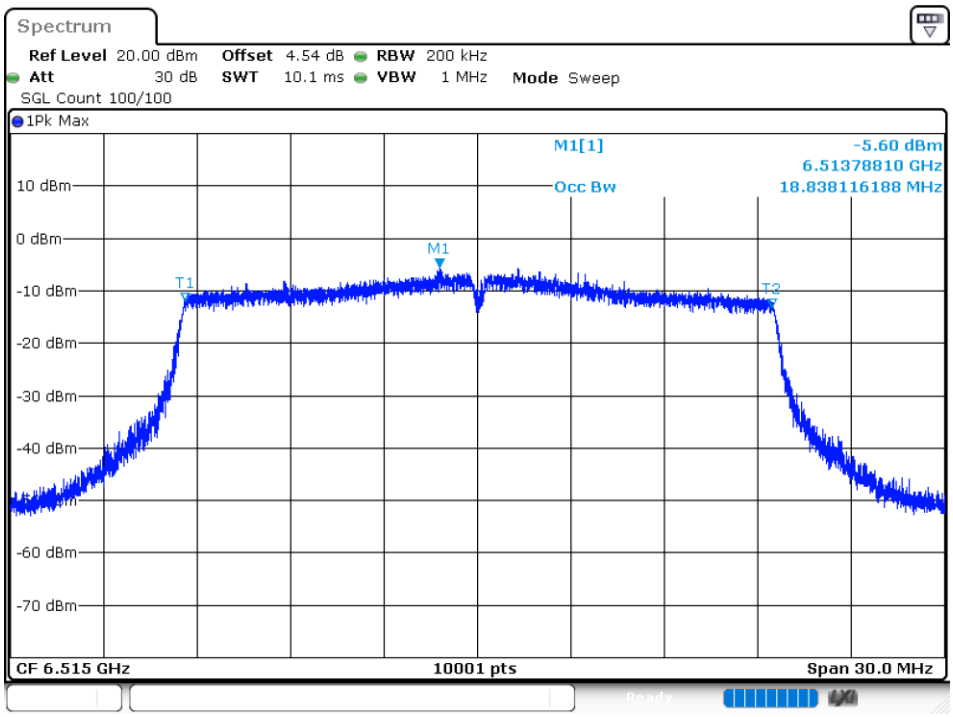
OBW NVNT ax20 6435MHz Ant1



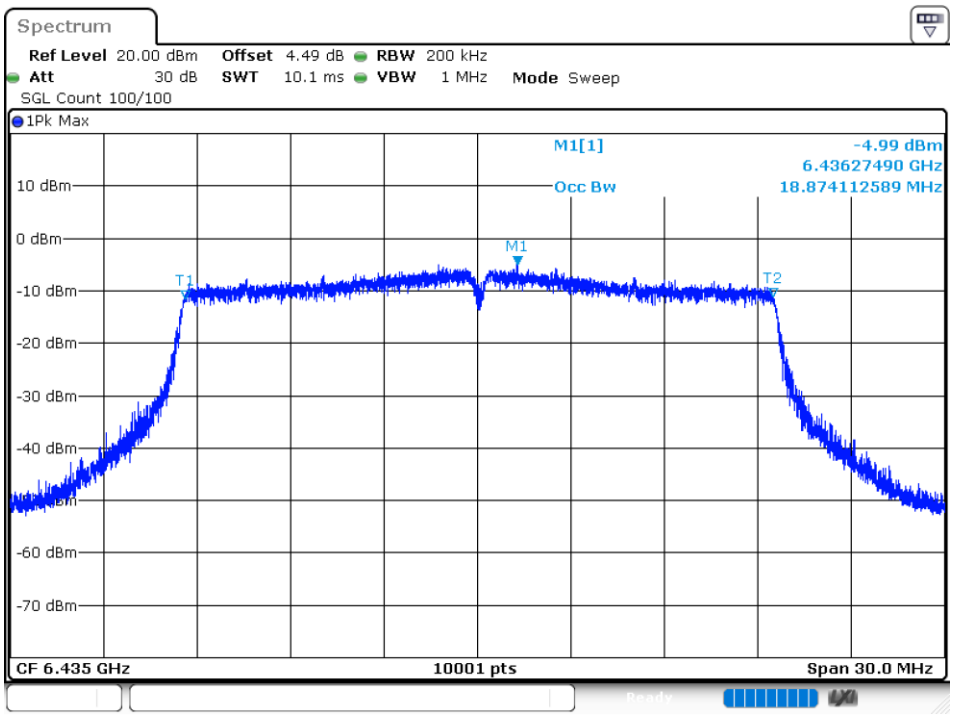
OBW NVNT ax20 6475MHz Ant1



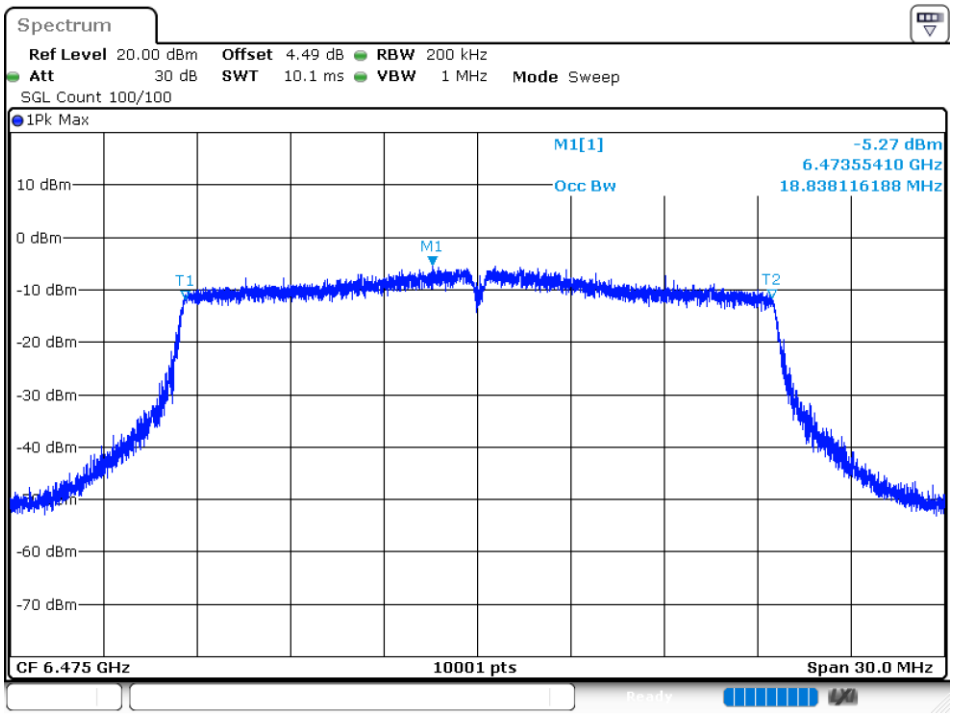
OBW NVNT ax20 6515MHz Ant1



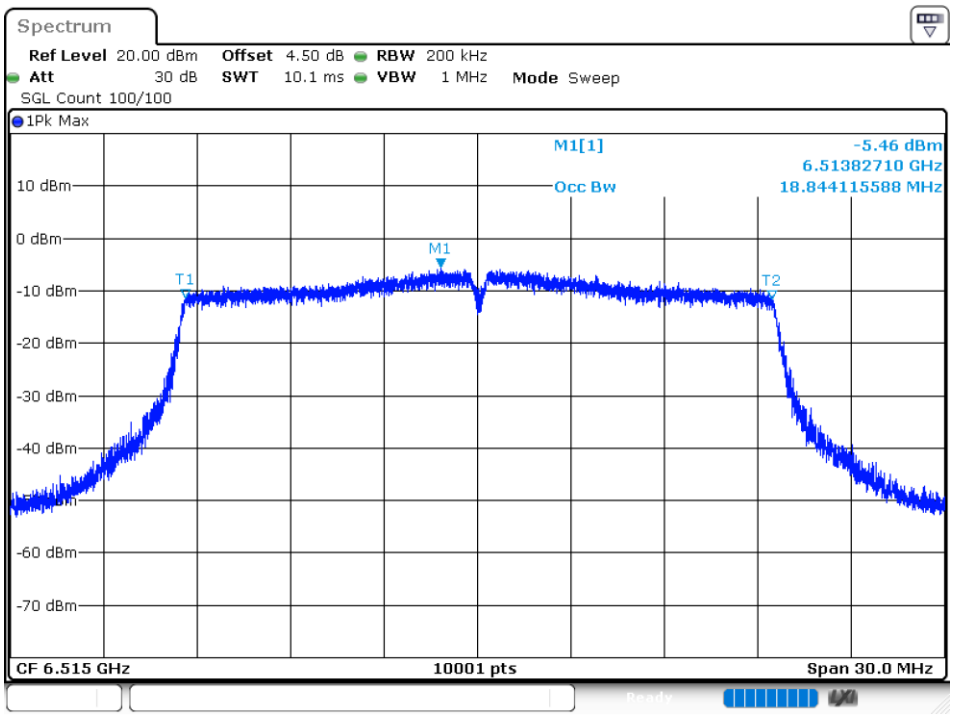
OBW NVNT ax20 6435MHz Ant2



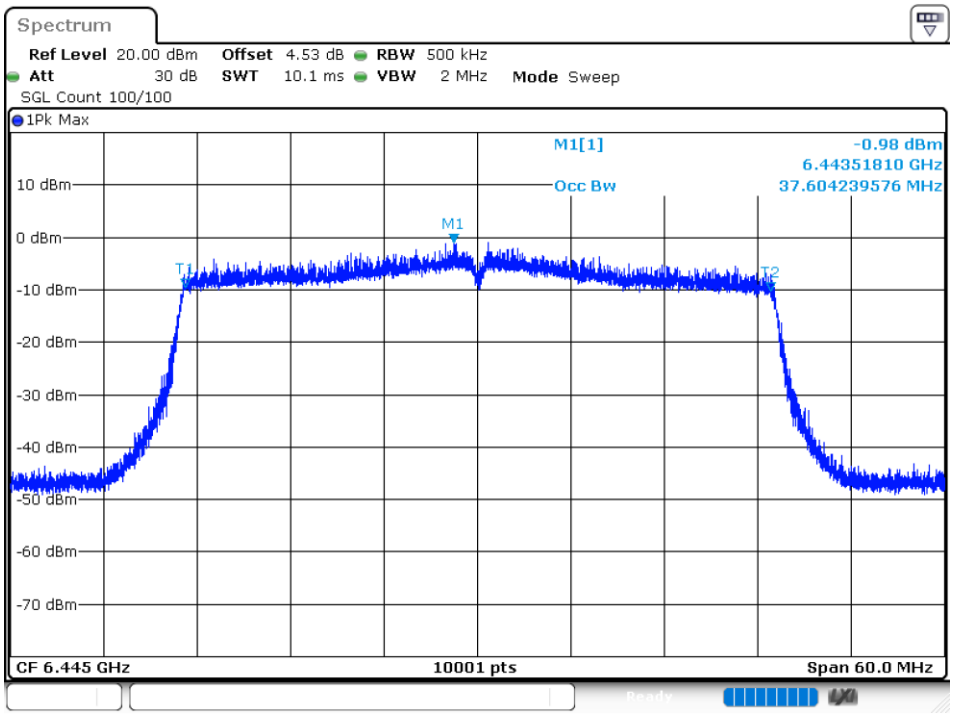
OBW NVNT ax20 6475MHz Ant2



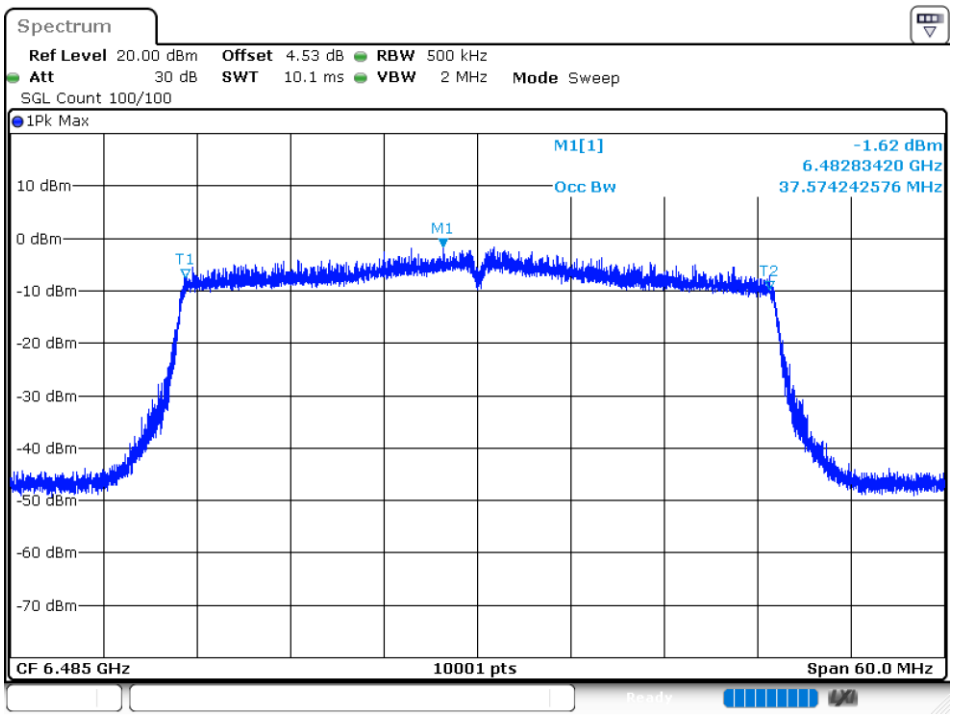
OBW NVNT ax20 6515MHz Ant2



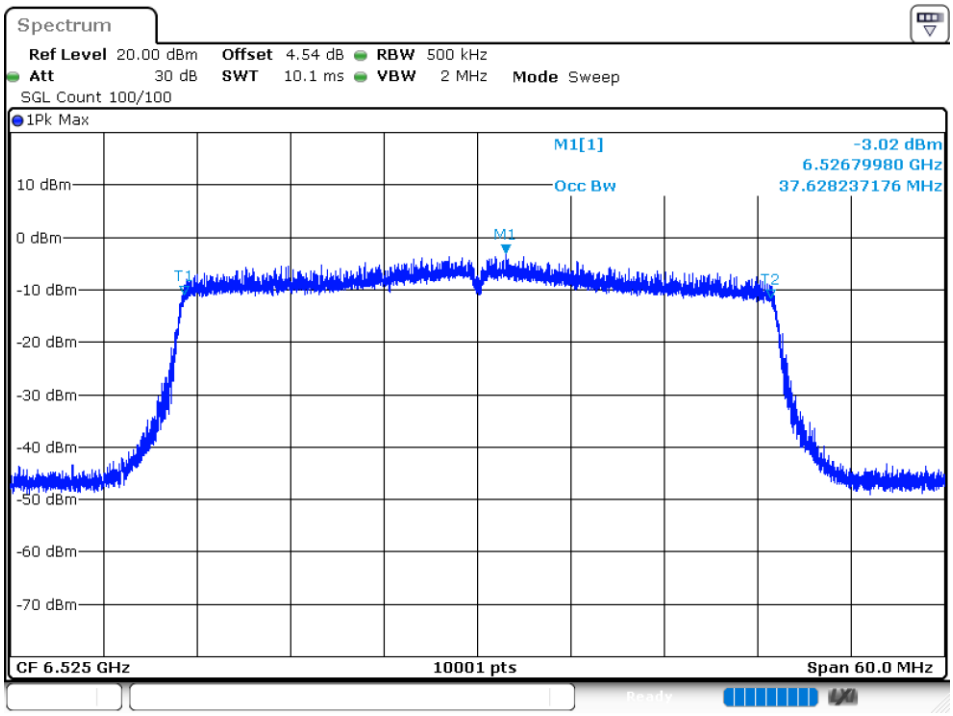
OBW NVNT ax40 6445MHz Ant1



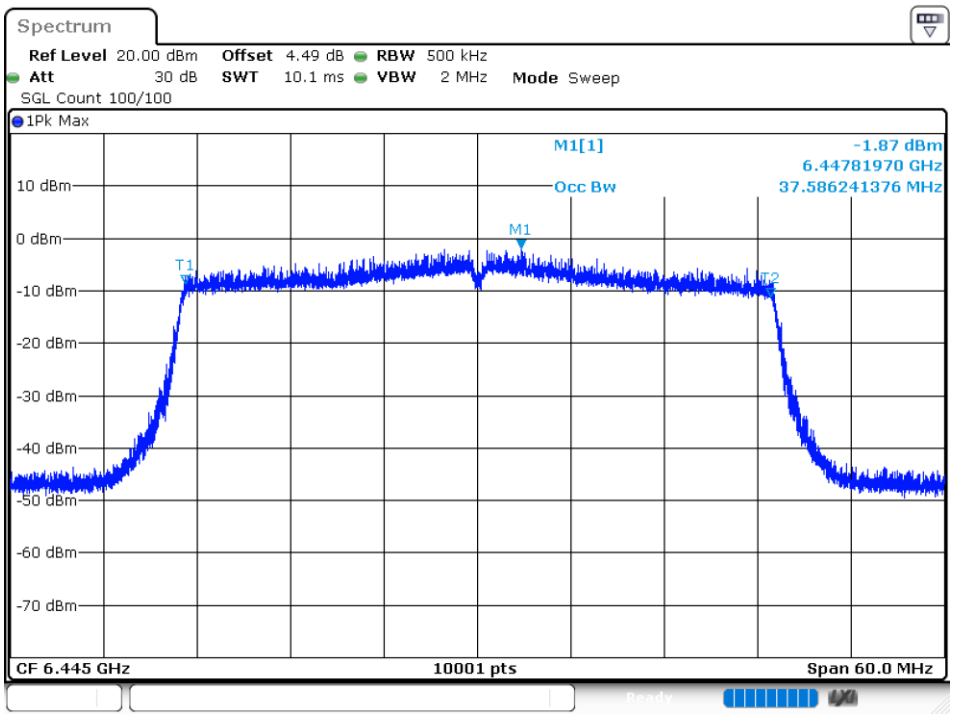
OBW NVNT ax40 6485MHz Ant1



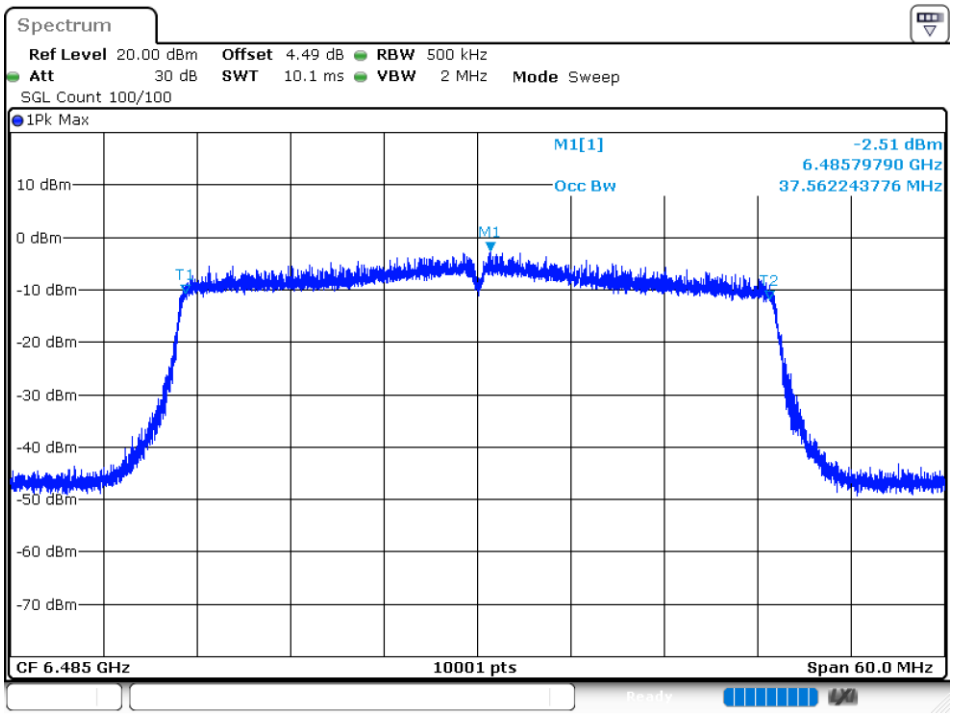
OBW NVNT ax40 6525MHz Ant1



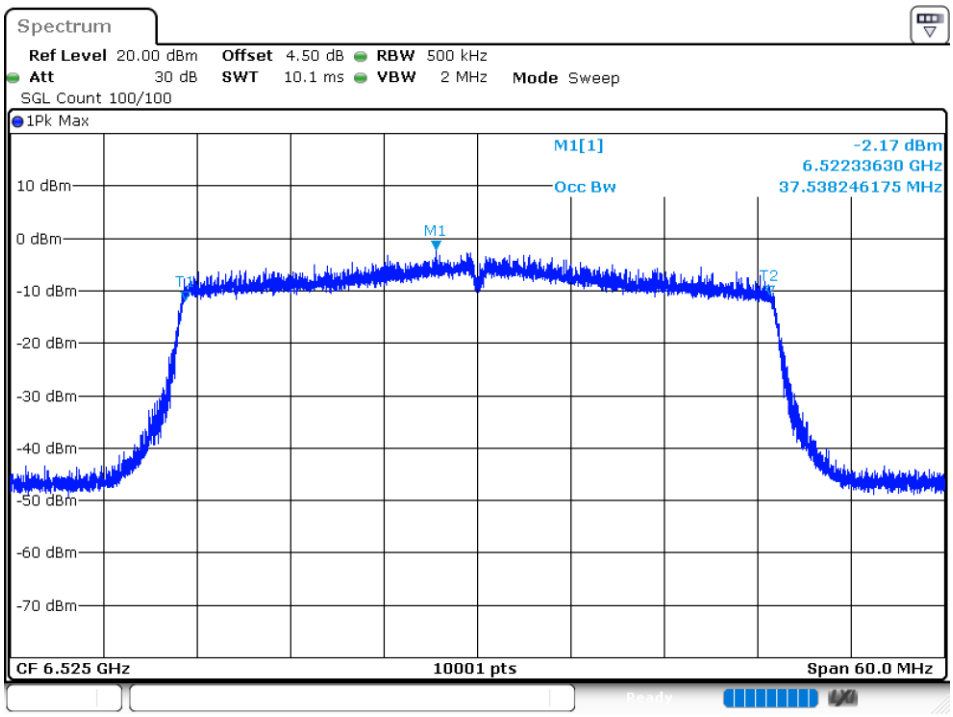
OBW NVNT ax40 6445MHz Ant2



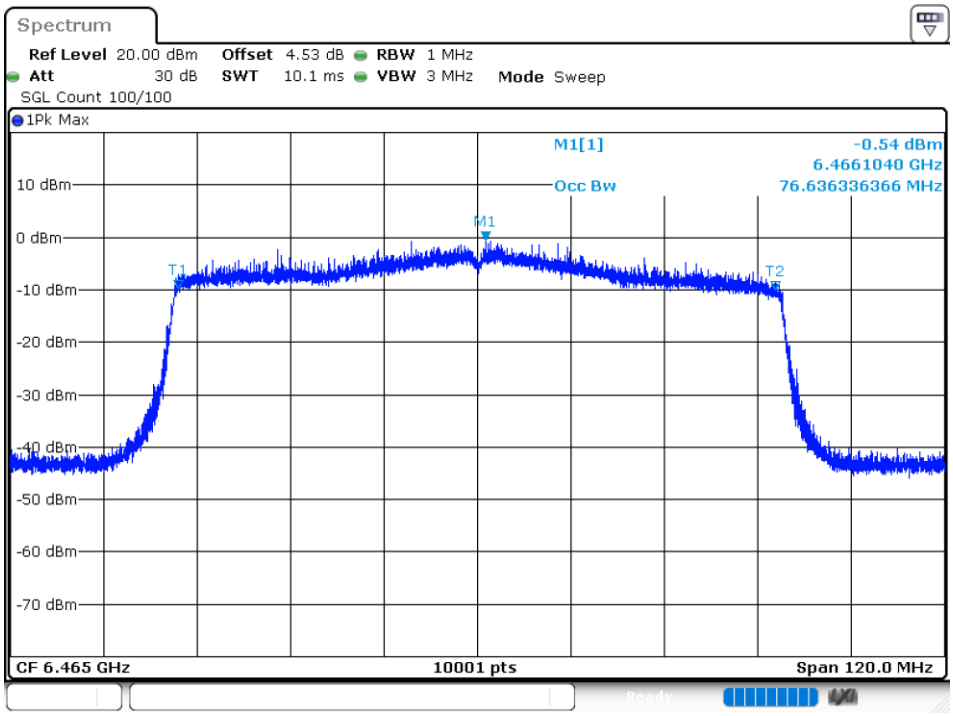
OBW NVNT ax40 6485MHz Ant2



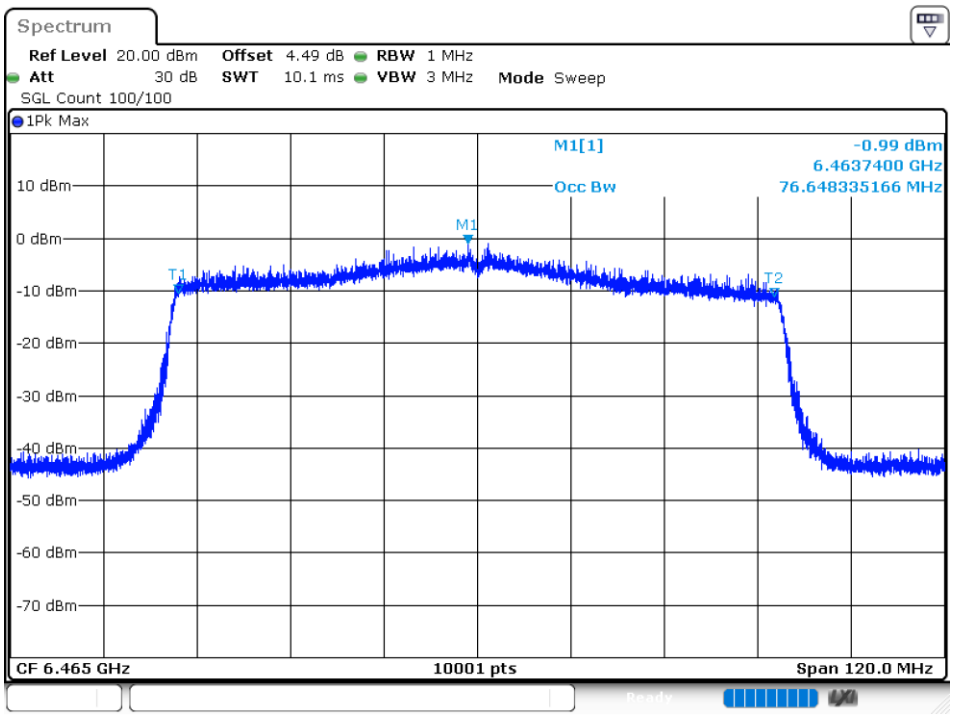
OBW NVNT ax40 6525MHz Ant2



OBW NVNT ax80 6465MHz Ant1



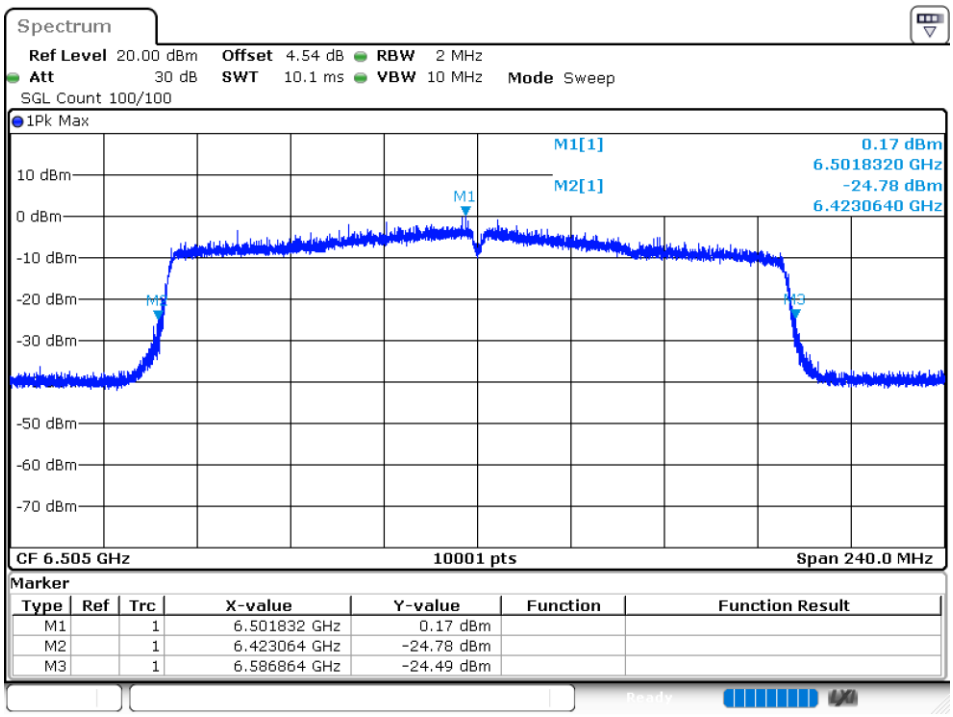
OBW NVNT ax80 6465MHz Ant2



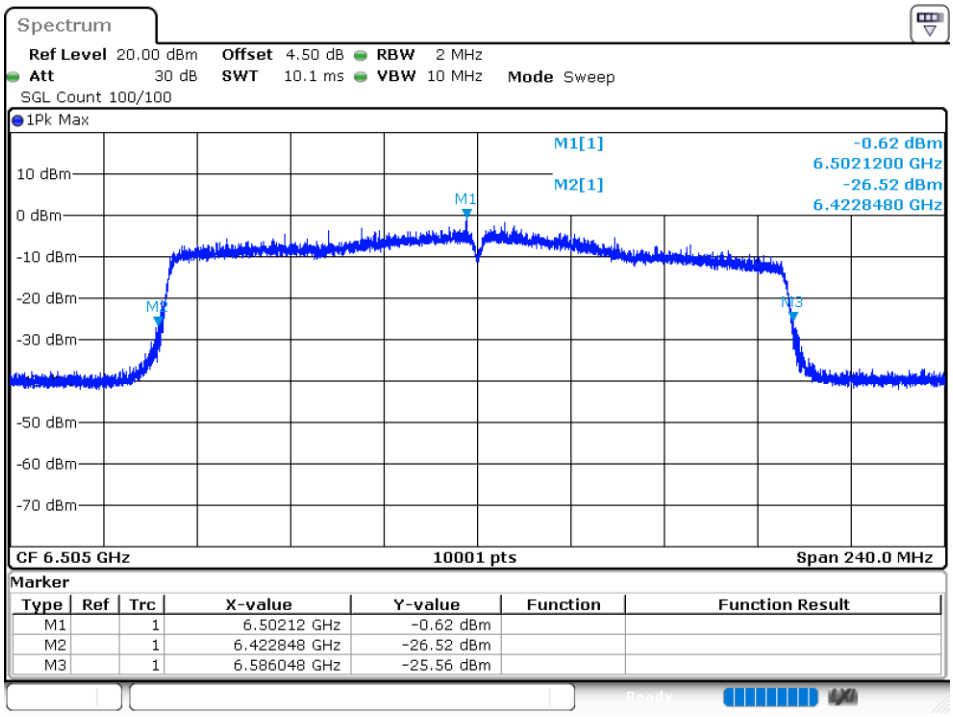
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	ax160	6505	Ant1	163.8
NVNT	ax160	6505	Ant2	163.2
NVNT	ax20	6435	Ant1	20.559
NVNT	ax20	6475	Ant1	20.592
NVNT	ax20	6515	Ant1	20.91
NVNT	ax20	6435	Ant2	20.787
NVNT	ax20	6475	Ant2	20.85
NVNT	ax20	6515	Ant2	21.036
NVNT	ax40	6445	Ant1	40.08
NVNT	ax40	6485	Ant1	40.332
NVNT	ax40	6525	Ant1	40.254
NVNT	ax40	6445	Ant2	40.518
NVNT	ax40	6485	Ant2	40.434
NVNT	ax40	6525	Ant2	40.134
NVNT	ax80	6465	Ant1	81.084
NVNT	ax80	6465	Ant2	81.348

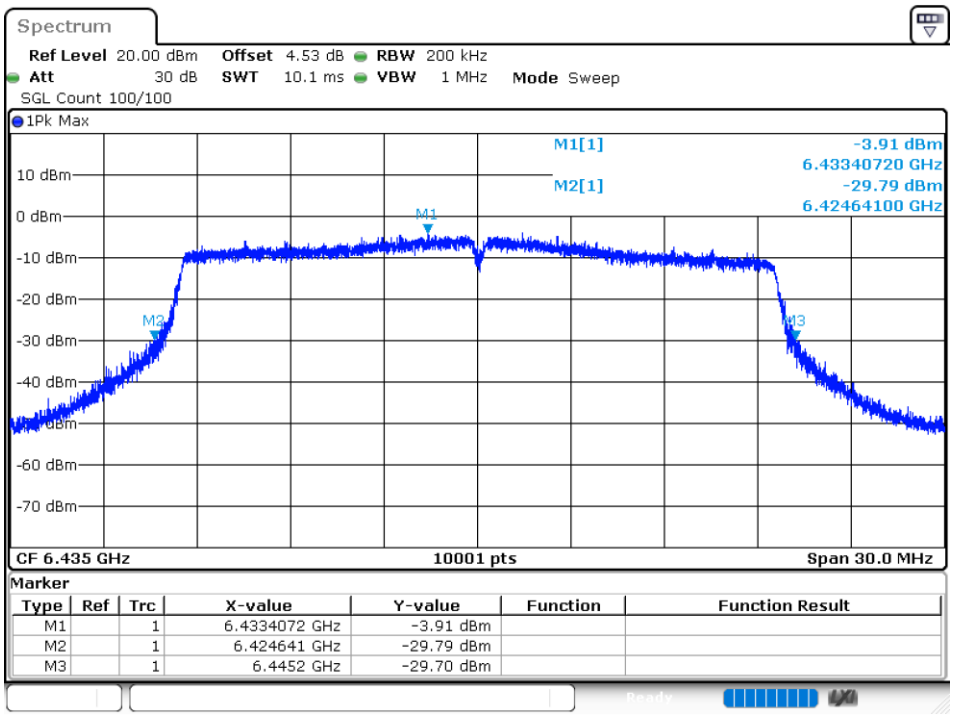
Test Graphs
-26dB Bandwidth NVNT ax160 6505MHz Ant1



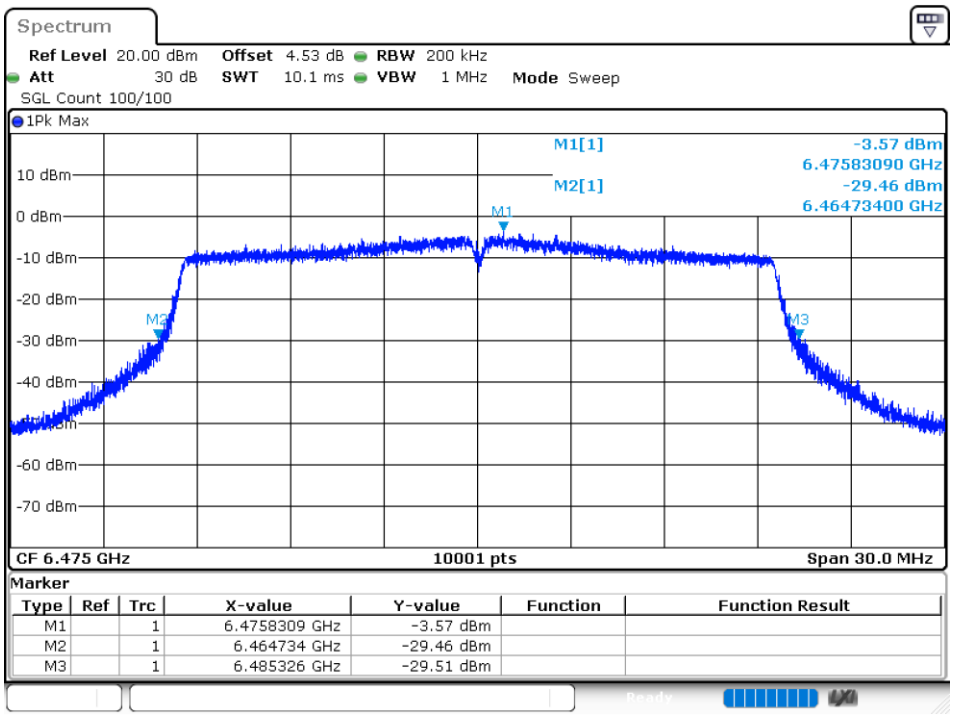
-26dB Bandwidth NVNT ax160 6505MHz Ant2



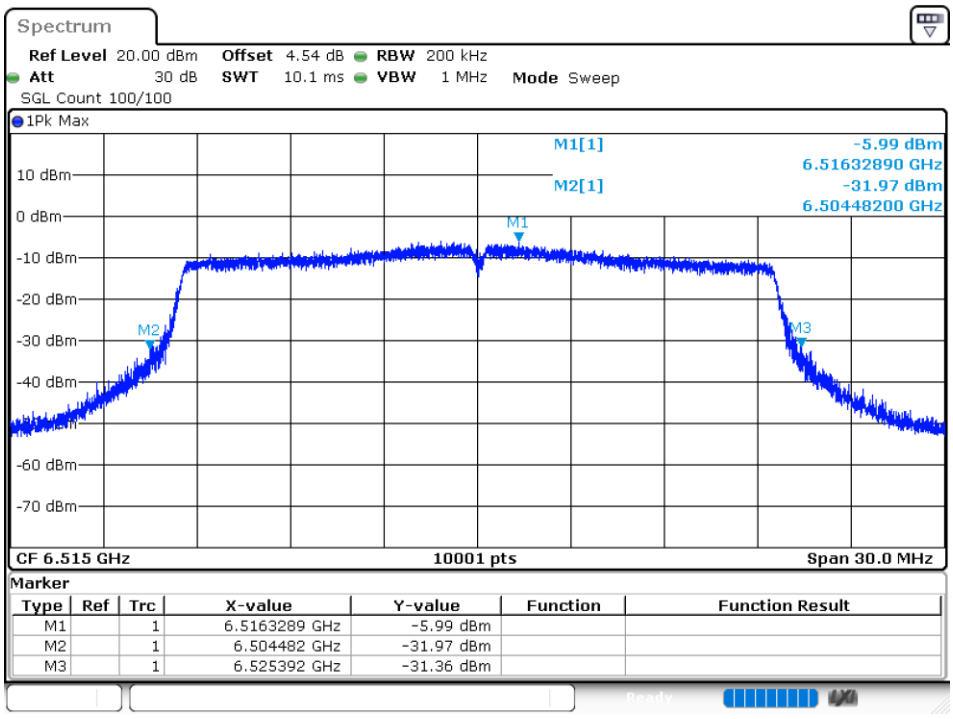
-26dB Bandwidth NVNT ax20 6435MHz Ant1



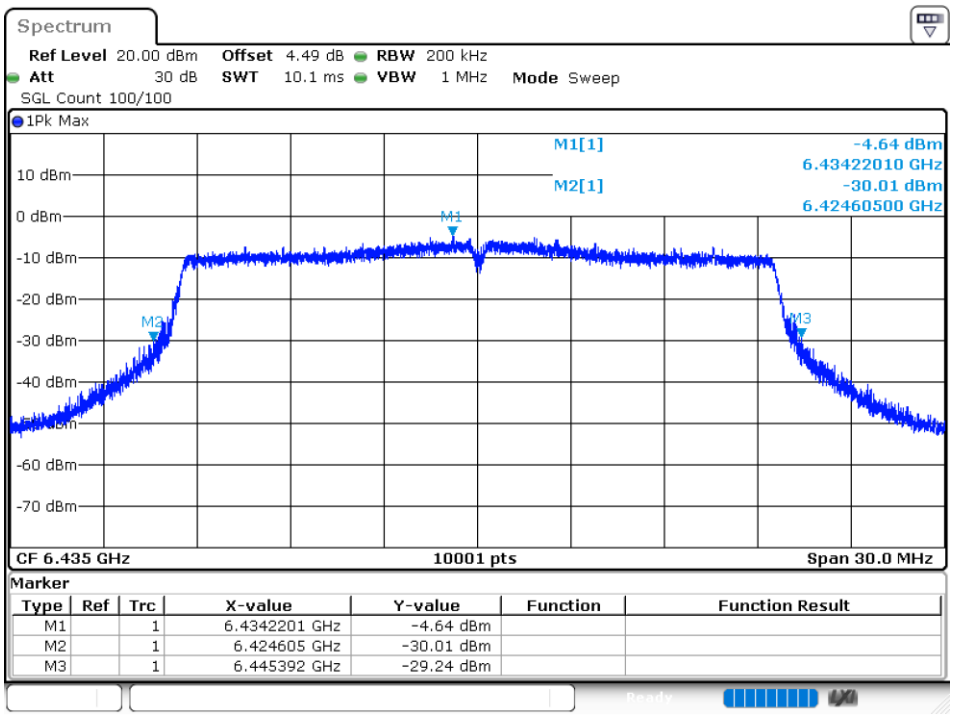
-26dB Bandwidth NVNT ax20 6475MHz Ant1



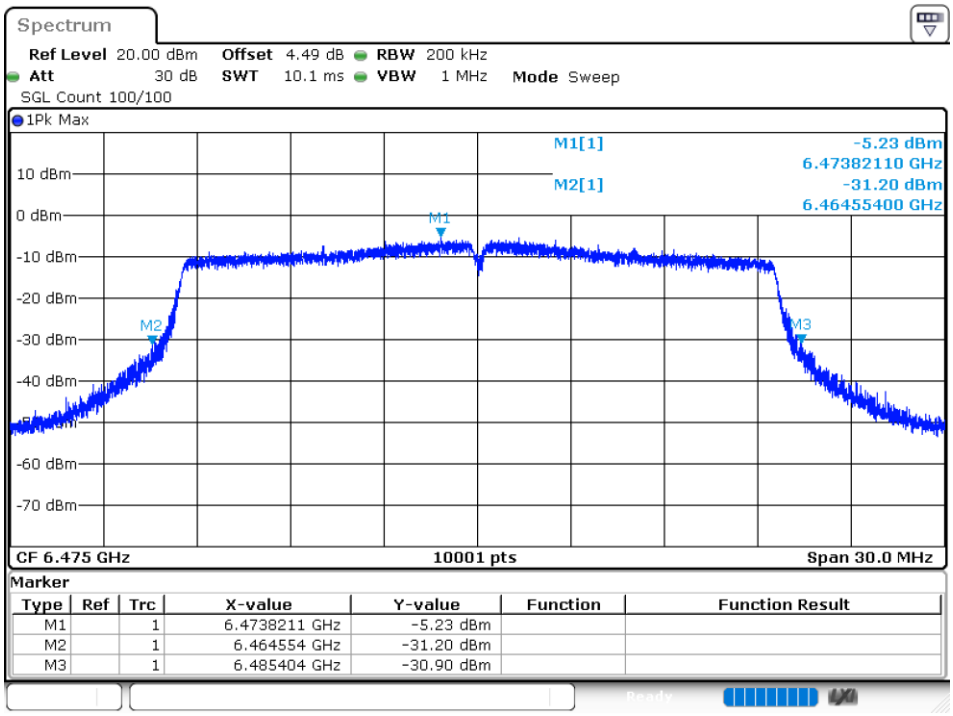
-26dB Bandwidth NVNT ax20 6515MHz Ant1



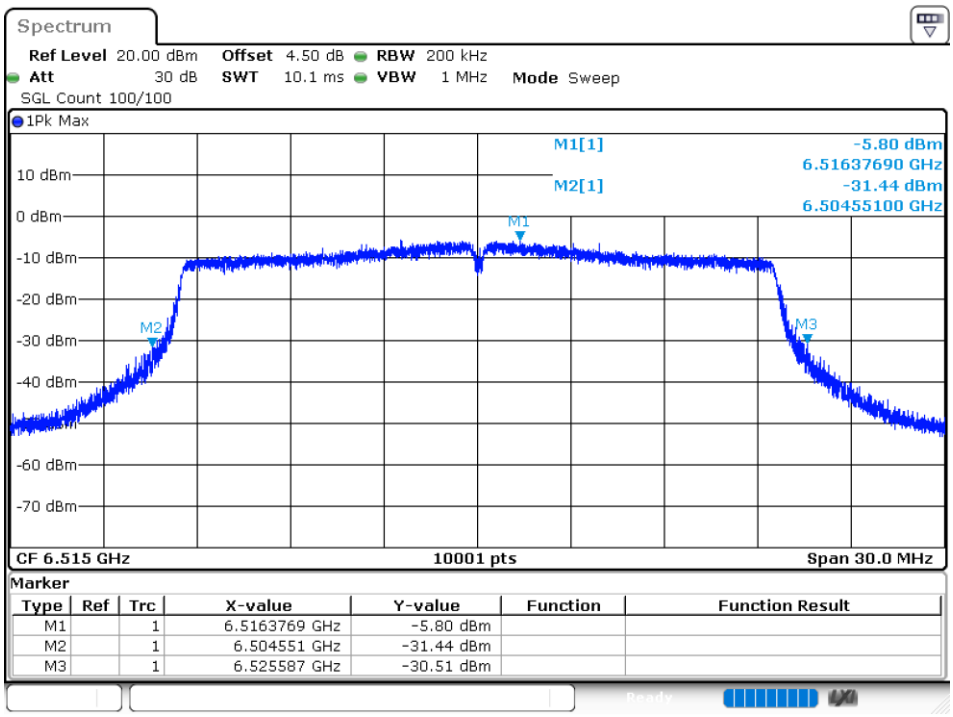
-26dB Bandwidth NVNT ax20 6435MHz Ant2



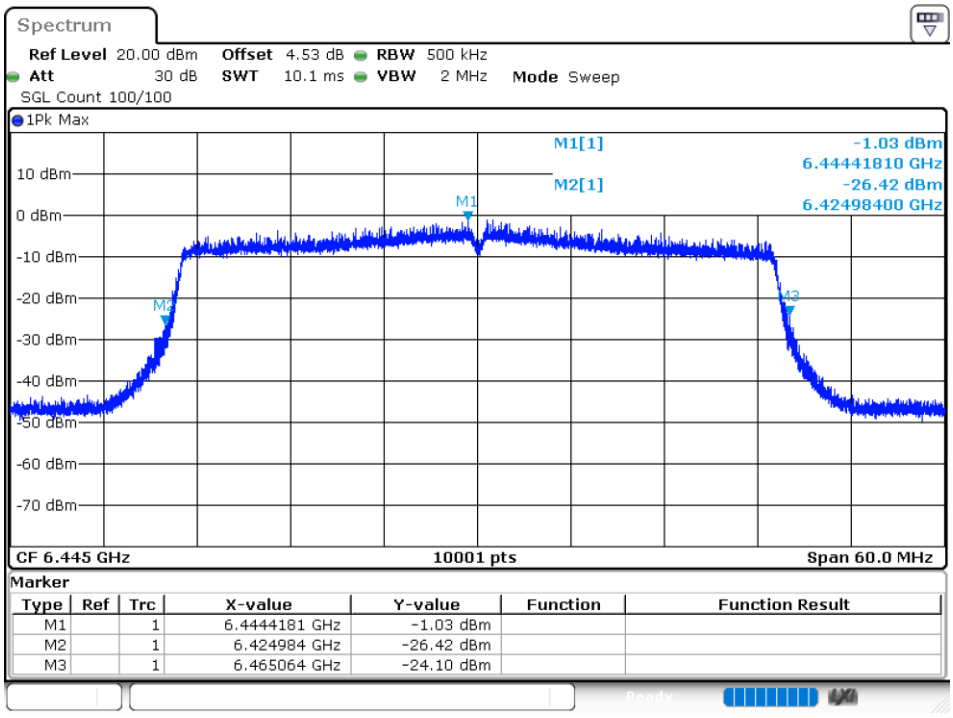
-26dB Bandwidth NVNT ax20 6475MHz Ant2



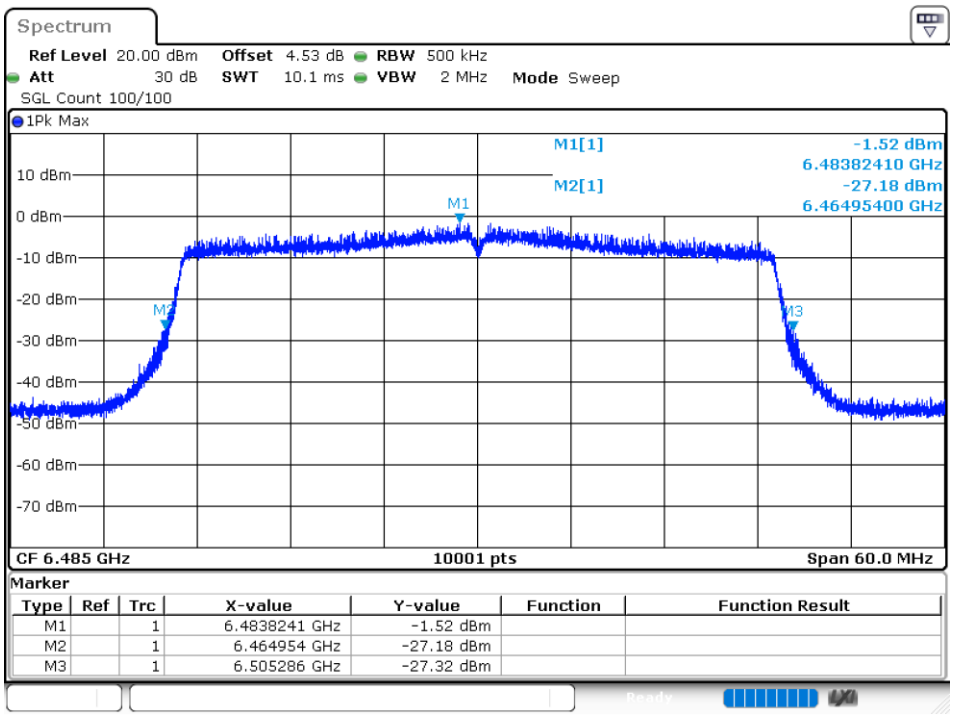
-26dB Bandwidth NVNT ax20 6515MHz Ant2



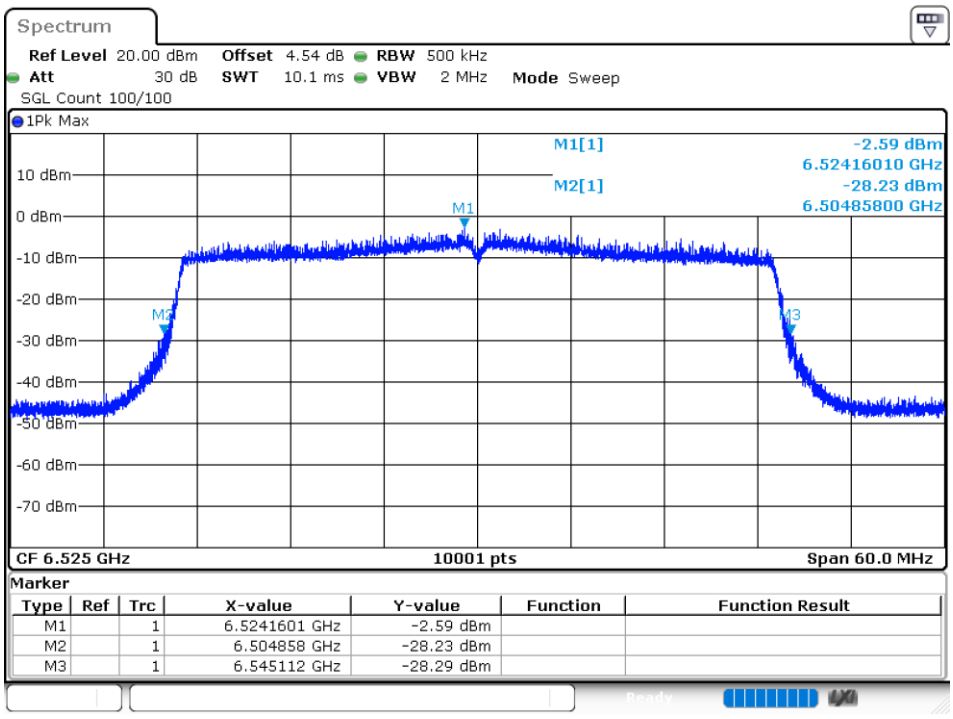
-26dB Bandwidth NVNT ax40 6445MHz Ant1



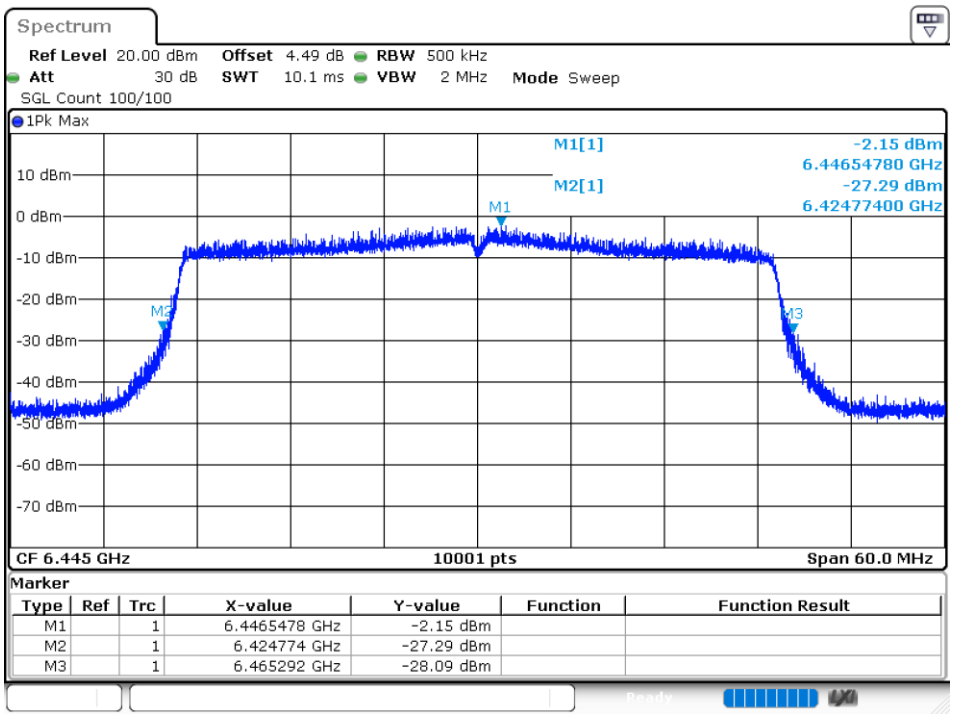
-26dB Bandwidth NVNT ax40 6485MHz Ant1



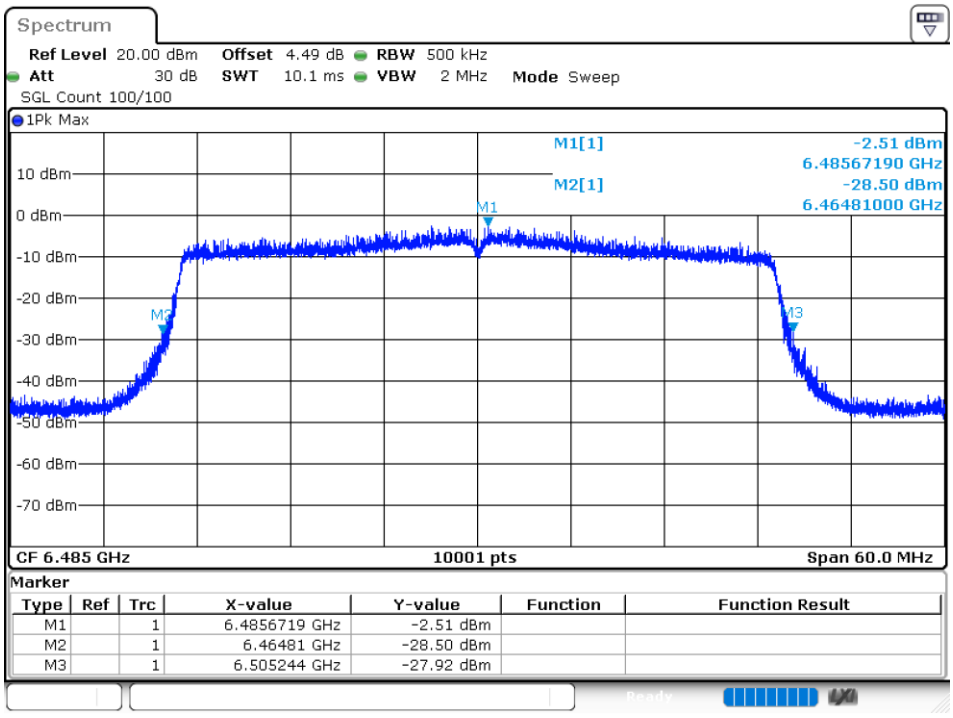
-26dB Bandwidth NVNT ax40 6525MHz Ant1



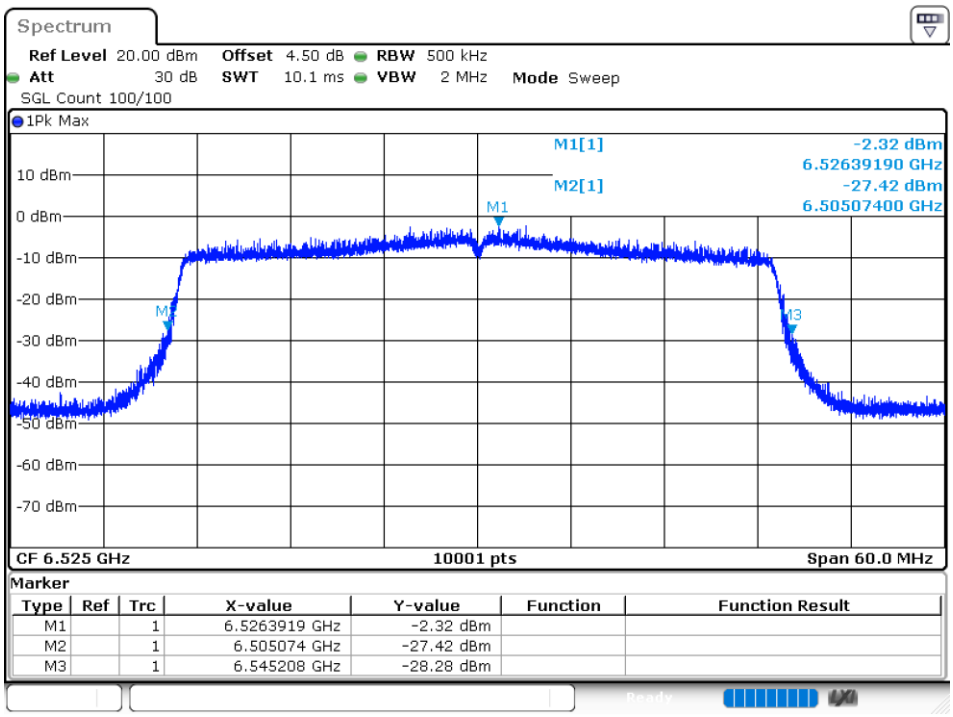
-26dB Bandwidth NVNT ax40 6445MHz Ant2



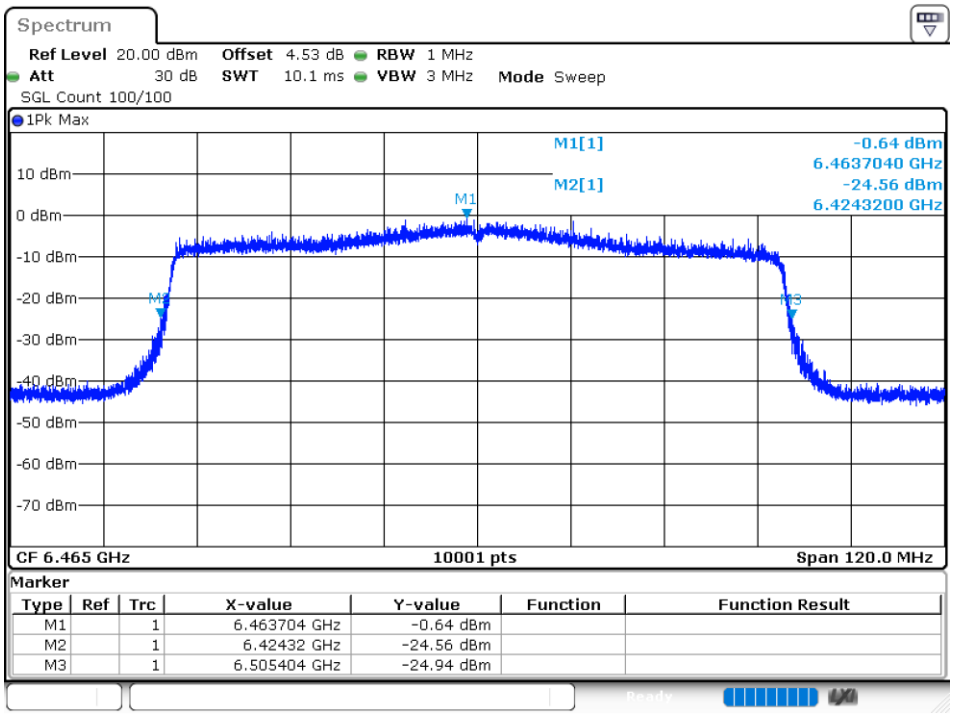
-26dB Bandwidth NVNT ax40 6485MHz Ant2



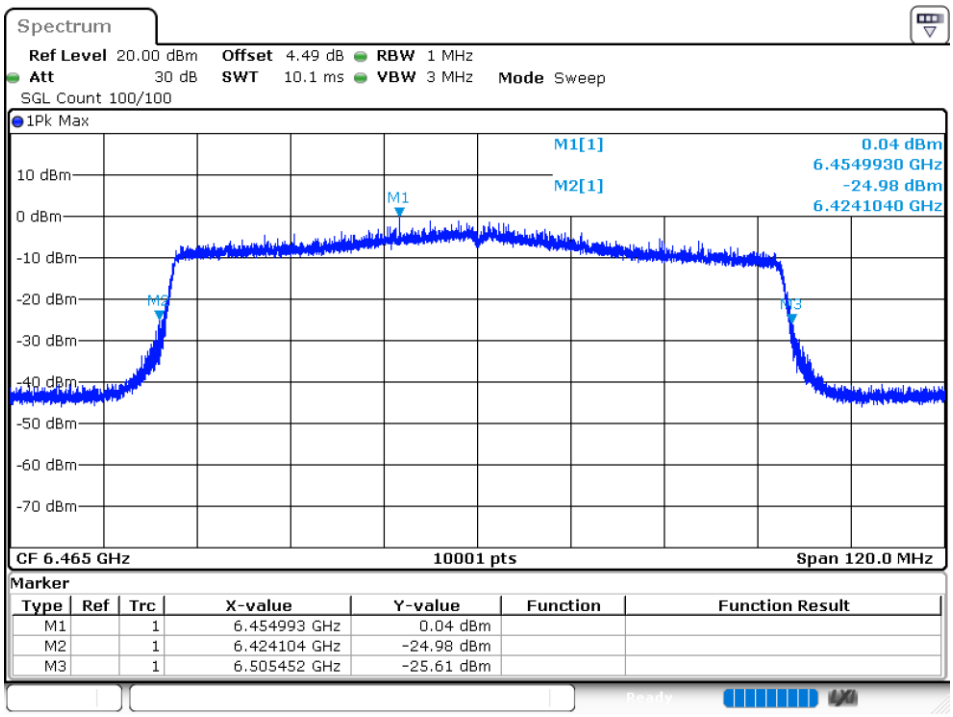
-26dB Bandwidth NVNT ax40 6525MHz Ant2



-26dB Bandwidth NVNT ax80 6465MHz Ant1



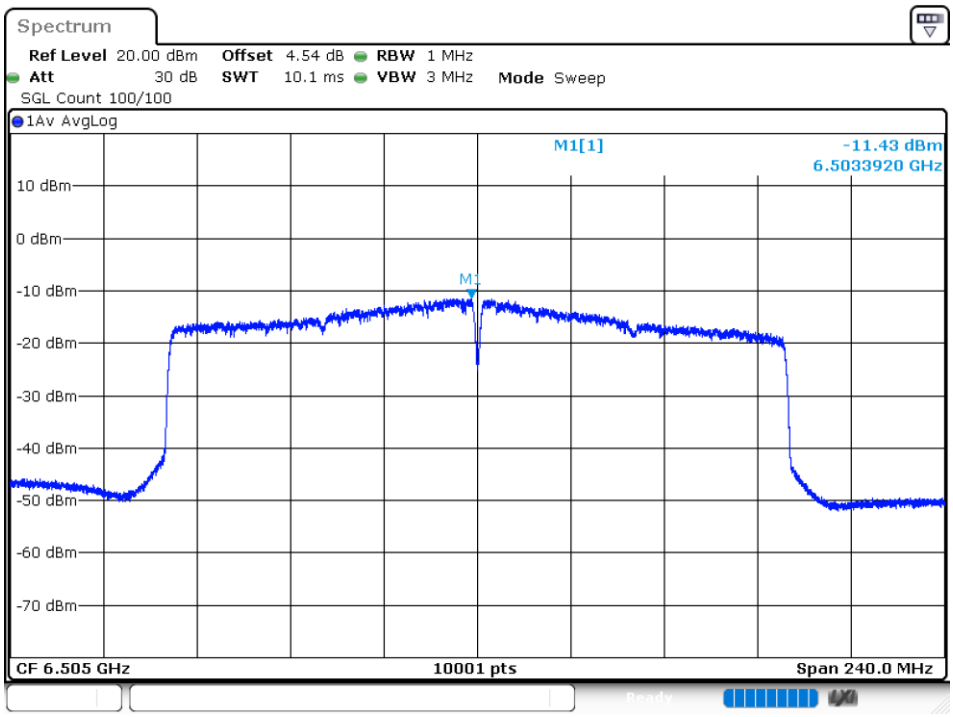
-26dB Bandwidth NVNT ax80 6465MHz Ant2



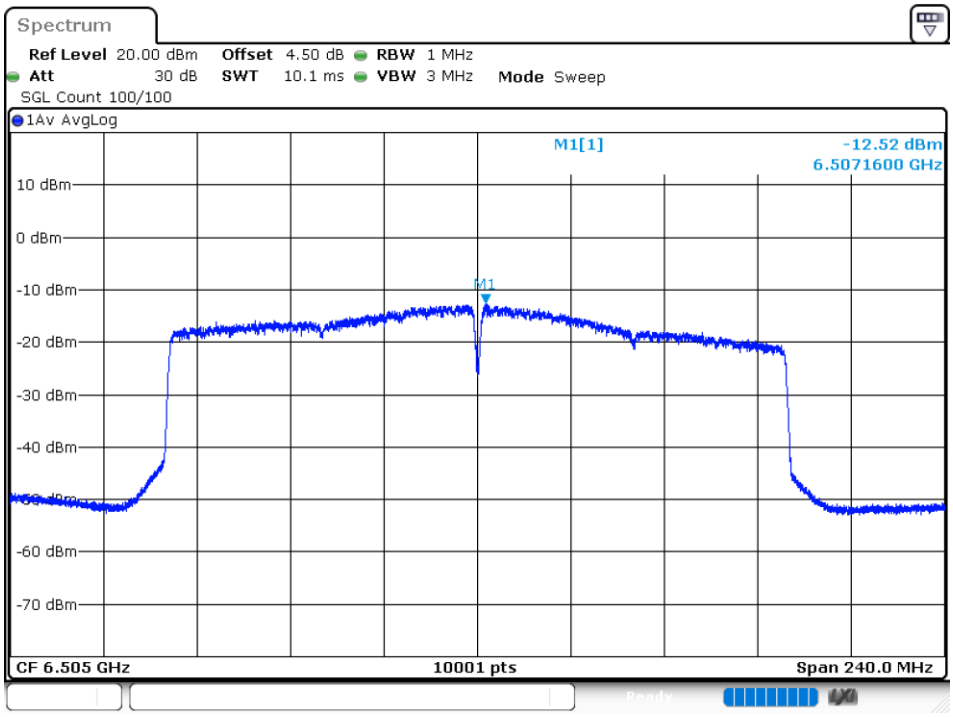
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Gain (dBi)	eirp PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax160	6505	Ant1	-11.43	0	-11.43	4.5	-6.74	-1	Pass
NVNT	ax160	6505	Ant2	-12.52	0	-12.52	4.5	-8.02	-1	Pass
NVNT	ax20	6435	Ant1	-7.04	0	-7.04	4.5	-2.54	-1	Pass
NVNT	ax20	6475	Ant1	-7.11	0	-7.11	4.5	-2.61	-1	Pass
NVNT	ax20	6515	Ant1	-8.63	0	-8.63	4.5	-4.13	-1	Pass
NVNT	ax20	6435	Ant2	-8.25	0	-8.25	4.5	-3.75	-1	Pass
NVNT	ax20	6475	Ant2	-8.12	0	-8.12	4.5	-3.62	-1	Pass
NVNT	ax20	6515	Ant2	-8.29	0	-8.29	4.5	-3.79	-1	Pass
NVNT	ax40	6445	Ant1	-10.18	0	-10.18	4.5	-5.68	-1	Pass
NVNT	ax40	6485	Ant1	-10.22	0	-10.22	4.5	-5.72	-1	Pass
NVNT	ax40	6525	Ant1	-11.66	0	-11.66	4.5	-7.16	-1	Pass
NVNT	ax40	6445	Ant2	-10.45	0	-10.45	4.5	-5.95	-1	Pass
NVNT	ax40	6485	Ant2	-11.1	0	-11.1	4.5	-6.6	-1	Pass
NVNT	ax40	6525	Ant2	-10.89	0	-10.89	4.5	-6.39	-1	Pass
NVNT	ax80	6465	Ant1	-6.96	0	-6.96	4.5	-2.33	-1	Pass
NVNT	ax80	6465	Ant2	-8.16	0	-8.16	4.5	-3.66	-1	Pass

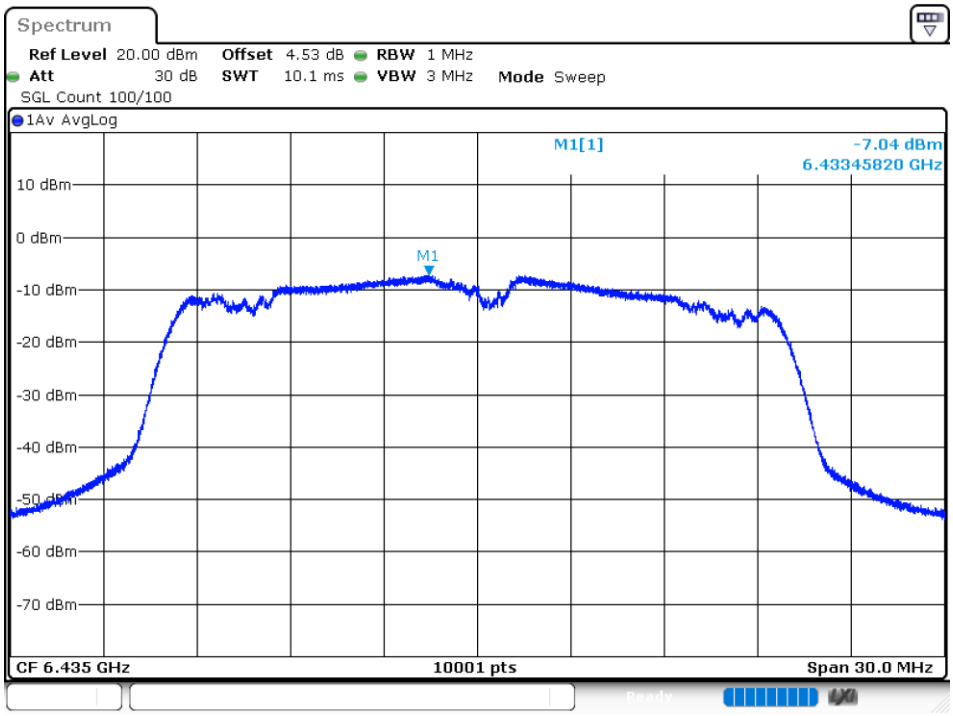
Test Graphs
PSD NVNT ax160 6505MHz Ant1



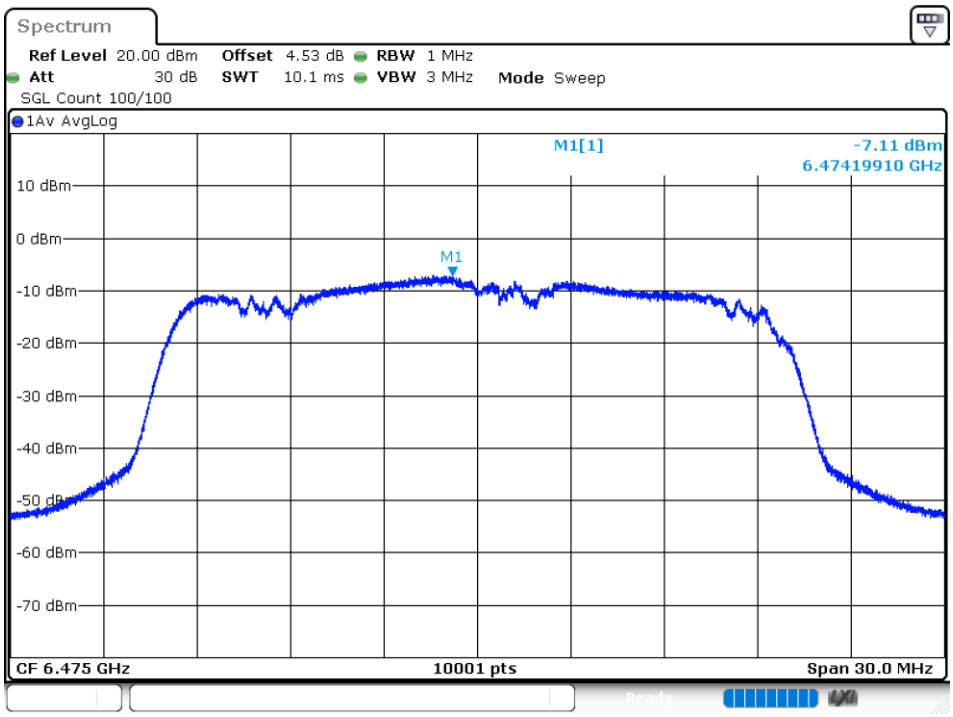
PSD NVNT ax160 6505MHz Ant2



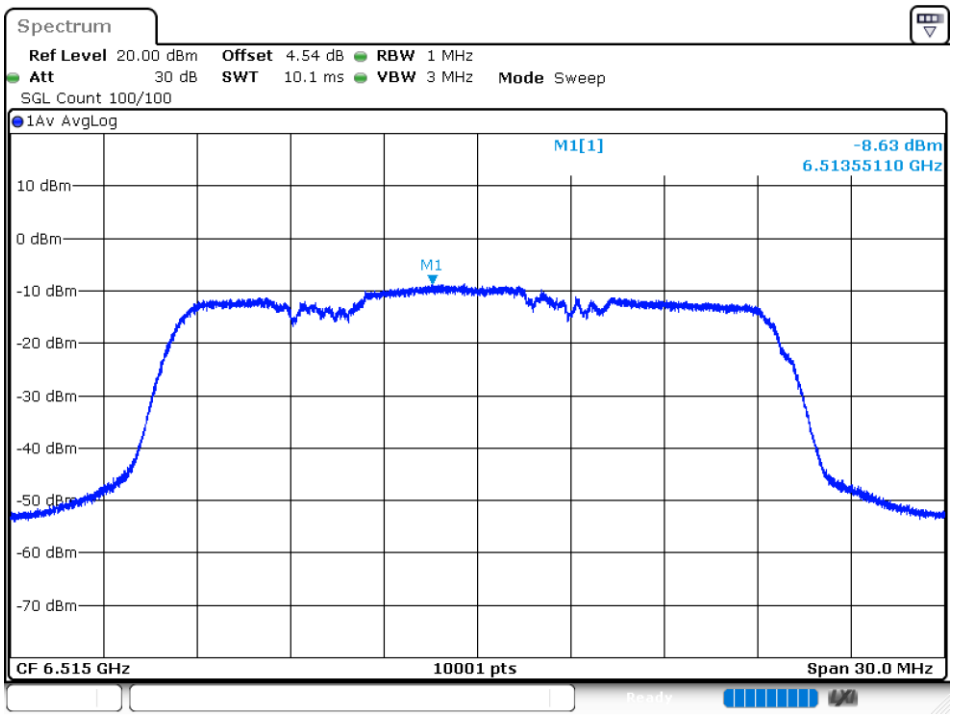
PSD NVNT ax20 6435MHz Ant1



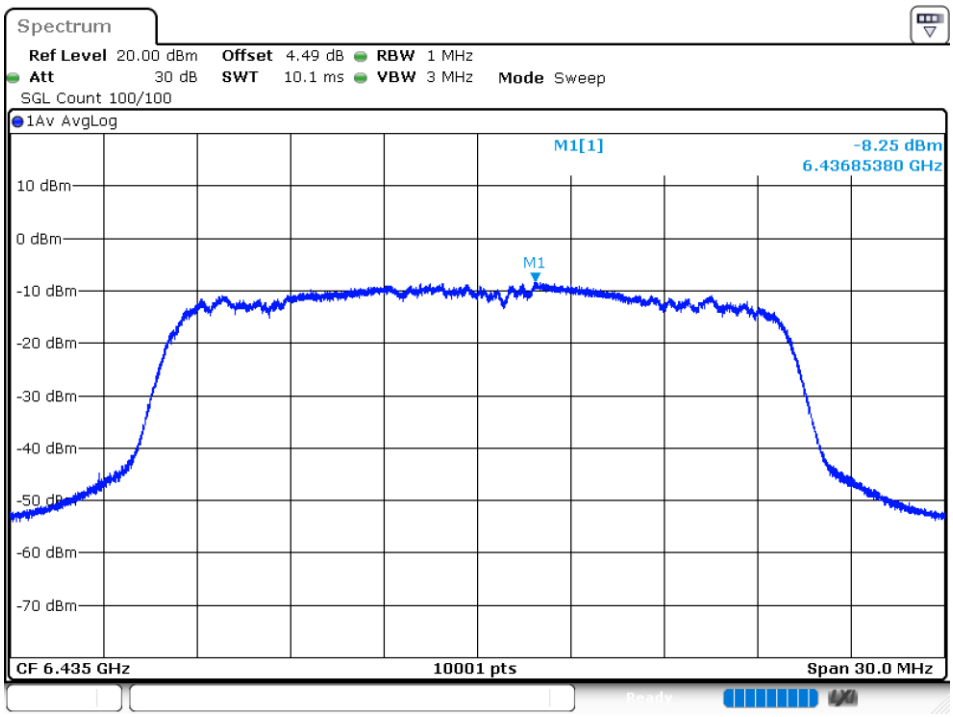
PSD NVNT ax20 6475MHz Ant1



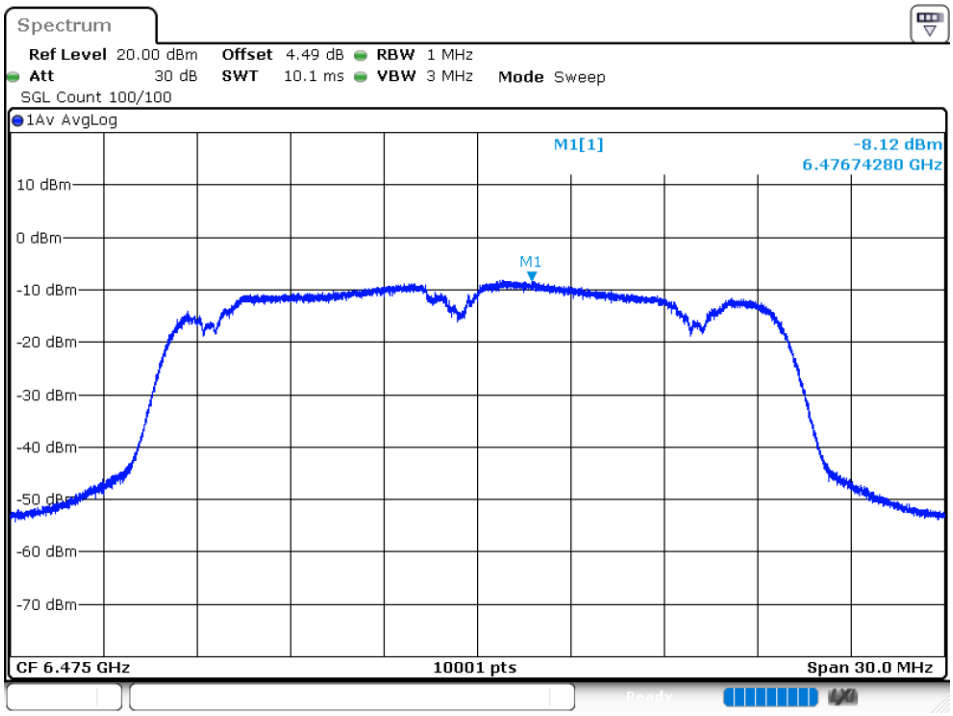
PSD NVNT ax20 6515MHz Ant1



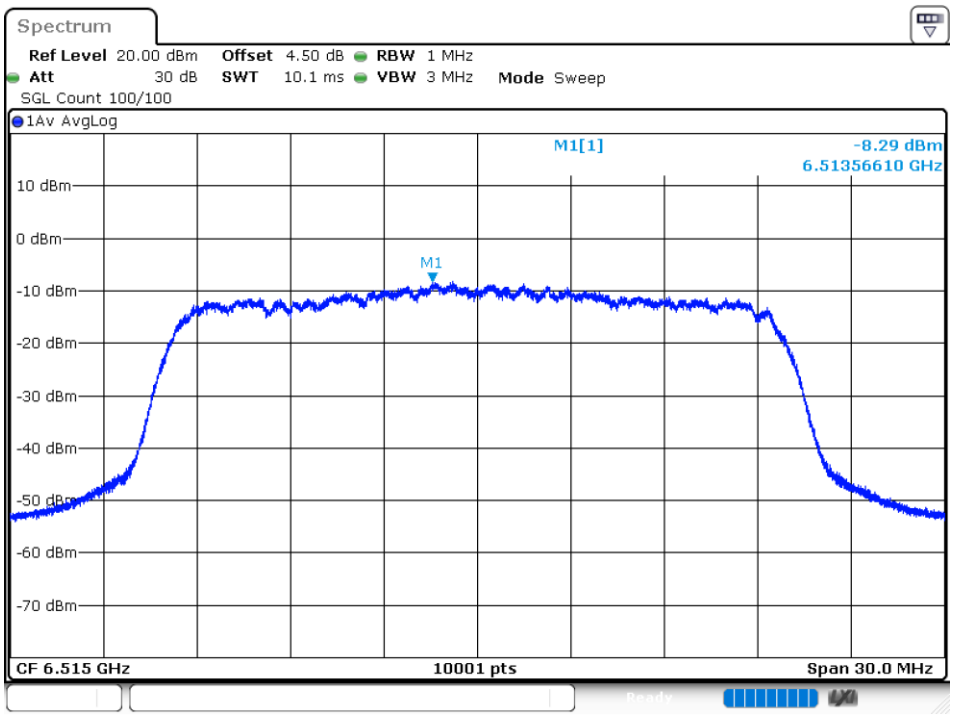
PSD NVNT ax20 6435MHz Ant2



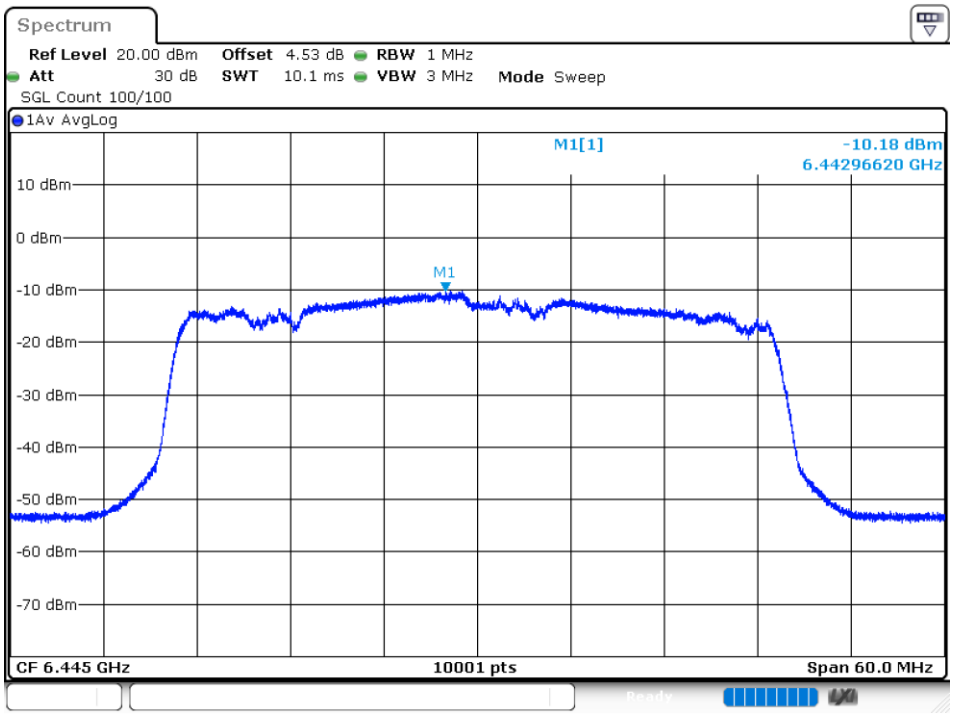
PSD NVNT ax20 6475MHz Ant2



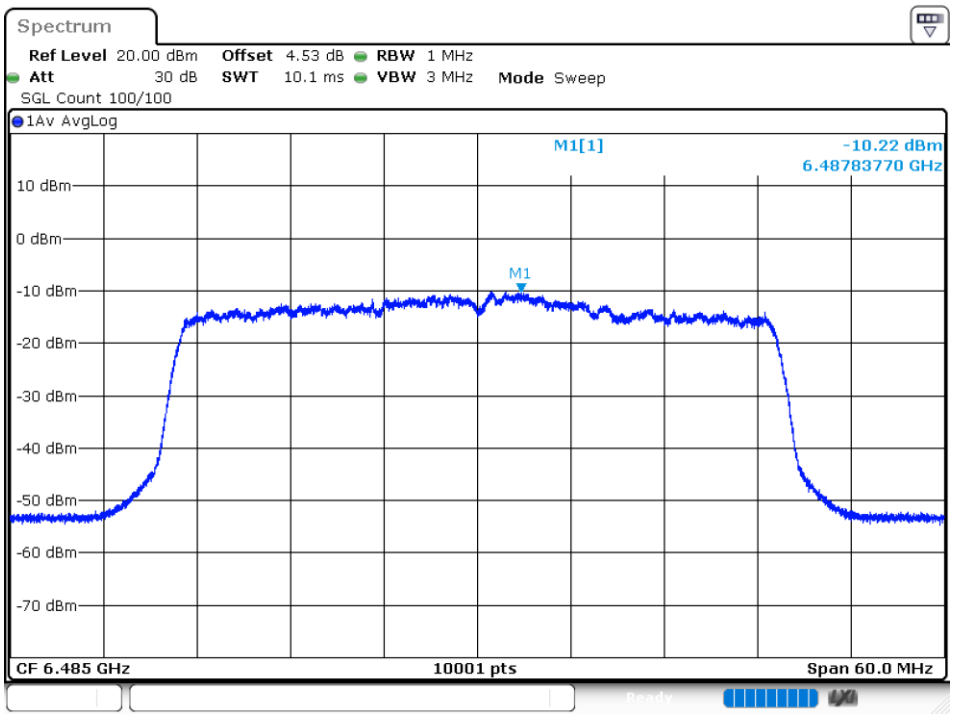
PSD NVNT ax20 6515MHz Ant2



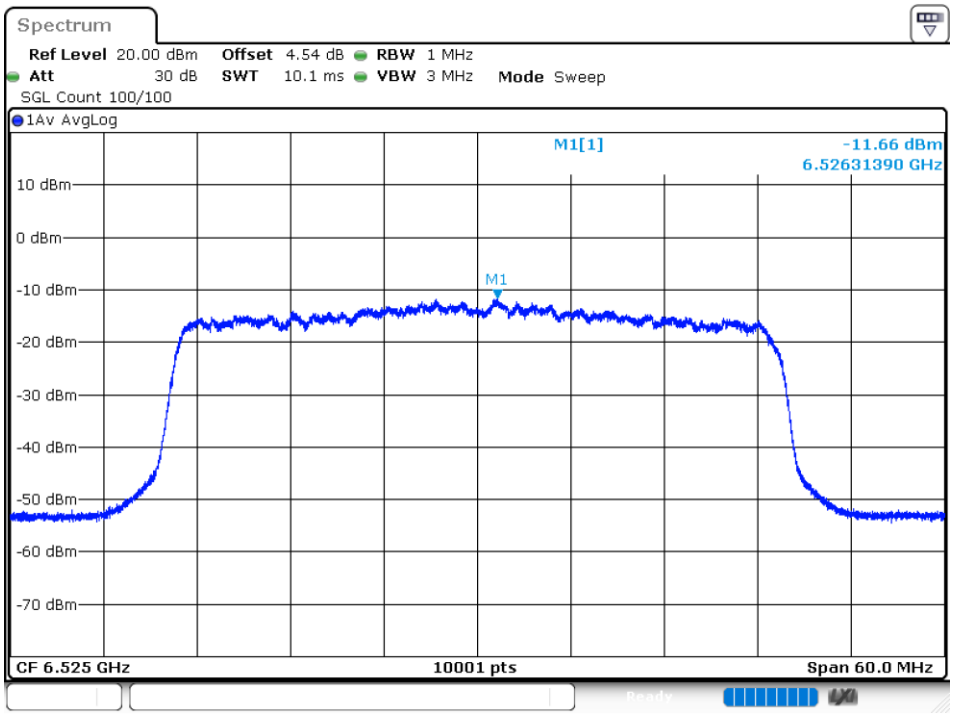
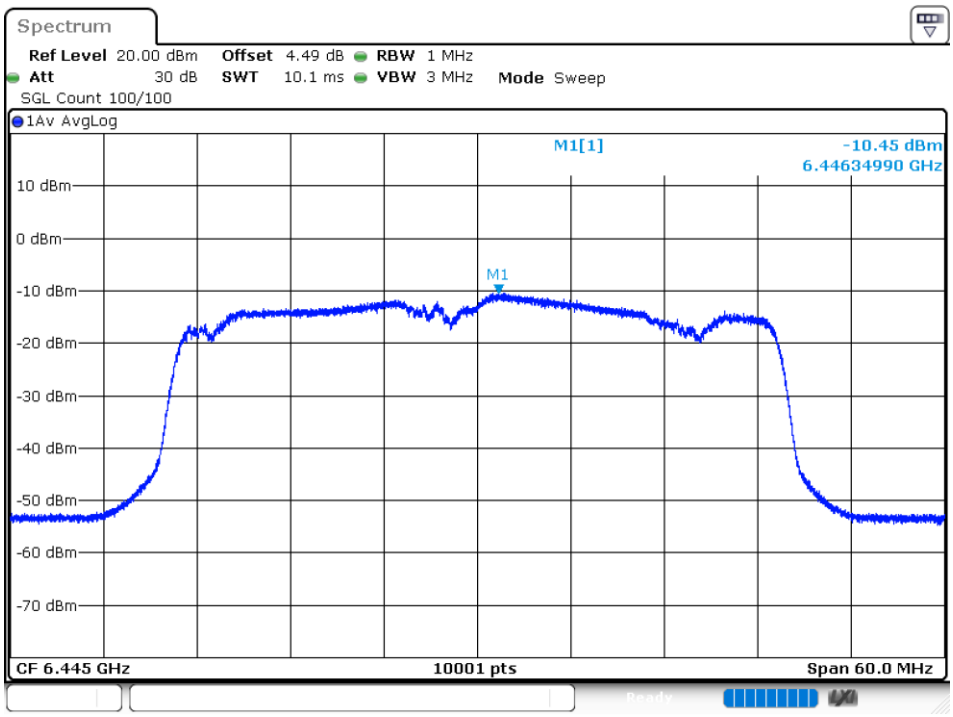
PSD NVNT ax40 6445MHz Ant1



PSD NVNT ax40 6485MHz Ant1



PSD NVNT ax40 6525MHz Ant1



PSD NVNT ax40 6445MHz Ant2