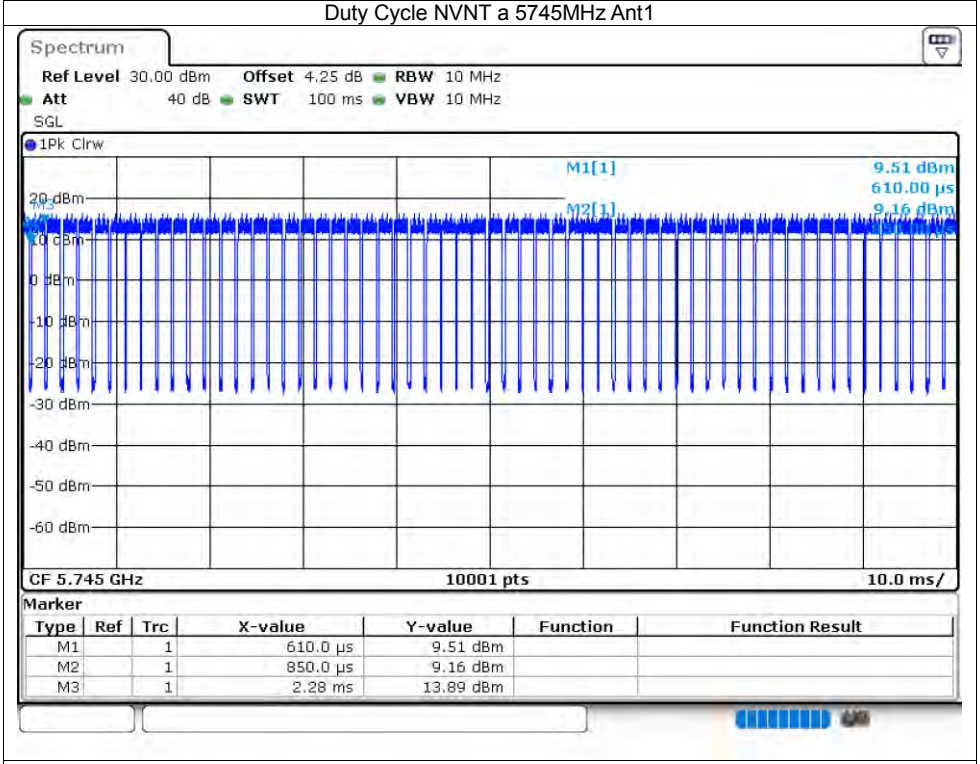
10.2 5.8G

10.2.1 DUTY CYCLE

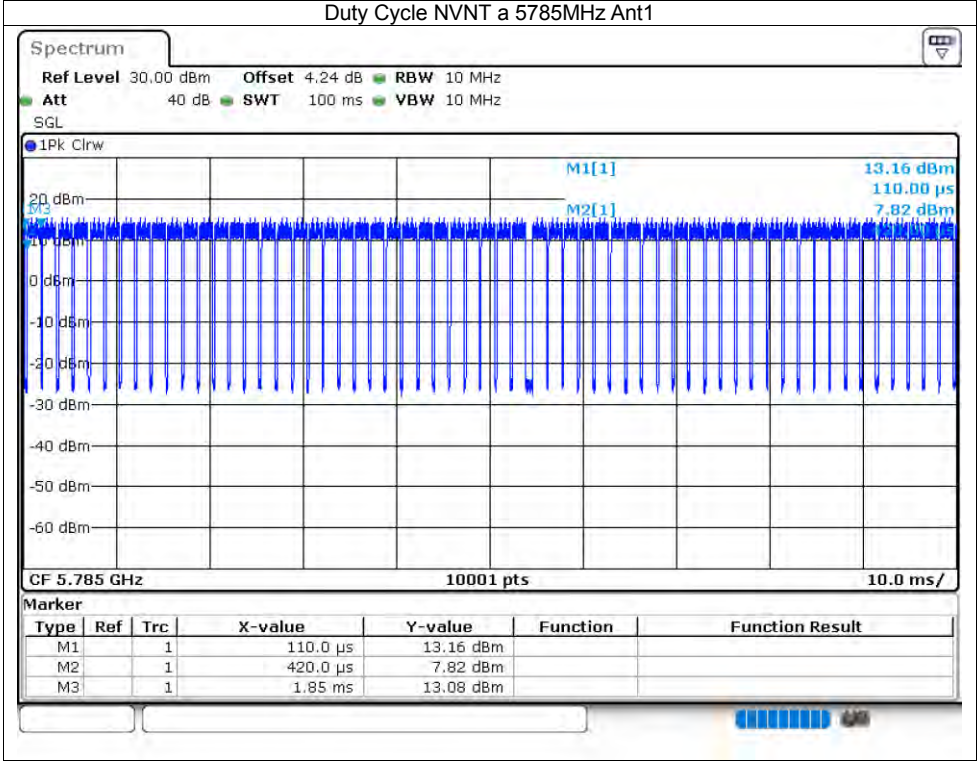
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	85.55	0.68	0.7
NVNT	a	5785	Ant1	85.35	0.69	0.7
NVNT	a	5825	Ant1	85.59	0.68	0.7
NVNT	n20	5745	Ant1	84.84	0.71	0.75
NVNT	n20	5785	Ant1	84.29	0.74	0.75
NVNT	n20	5825	Ant1	84.73	0.72	0.75
NVNT	ac20	5745	Ant1	84.79	0.72	0.74
NVNT	ac20	5785	Ant1	84.34	0.74	0.74
NVNT	ac20	5825	Ant1	84.88	0.71	0.74
NVNT	ax20	5745	Ant1	82.95	0.81	0.83
NVNT	ax20	5785	Ant1	78.5	1.05	0.84
NVNT	ax20	5825	Ant1	83.27	0.8	0.84

Test Graphs

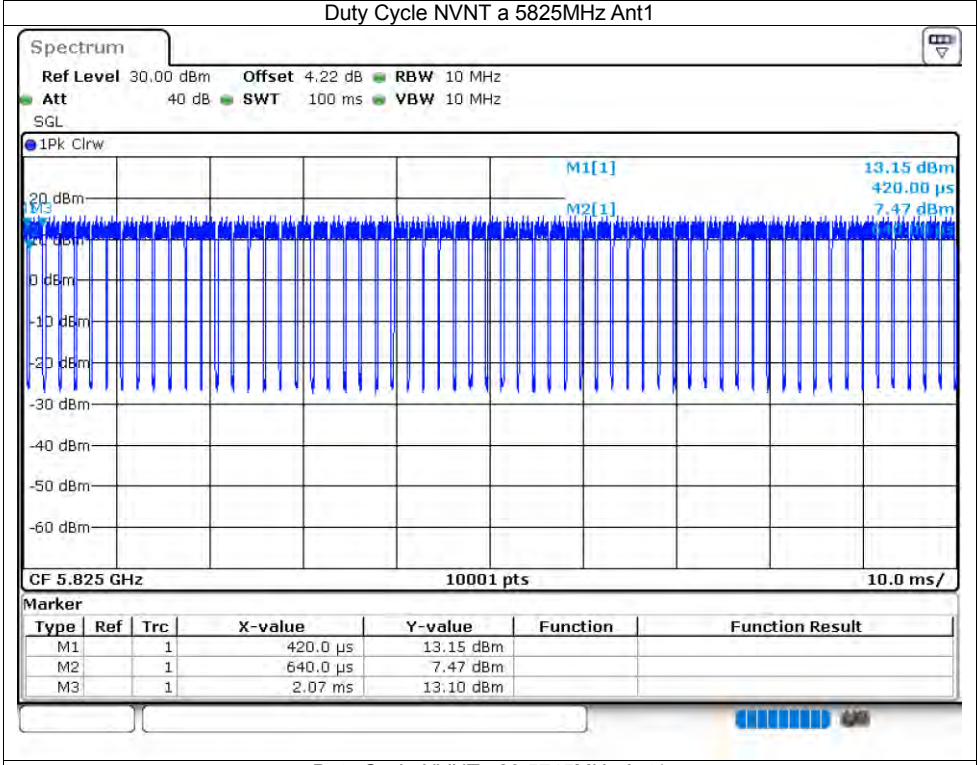
Duty Cycle NVNT a 5745MHz Ant1



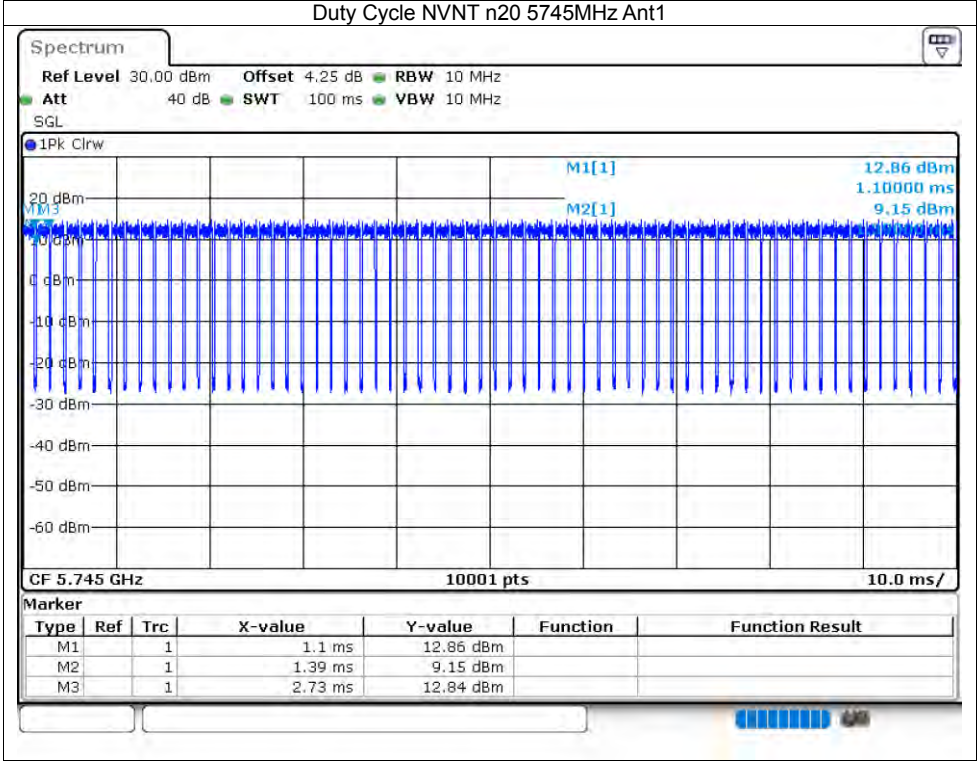
Duty Cycle NVNT a 5785MHz Ant1



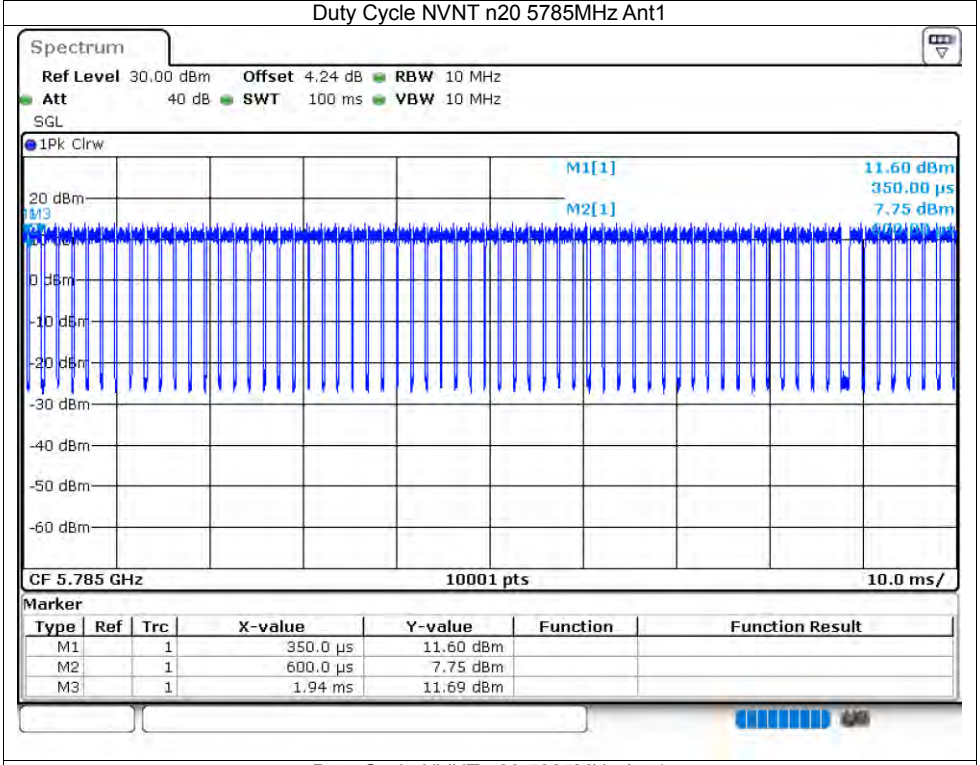
Duty Cycle NVNT a 5825MHz Ant1



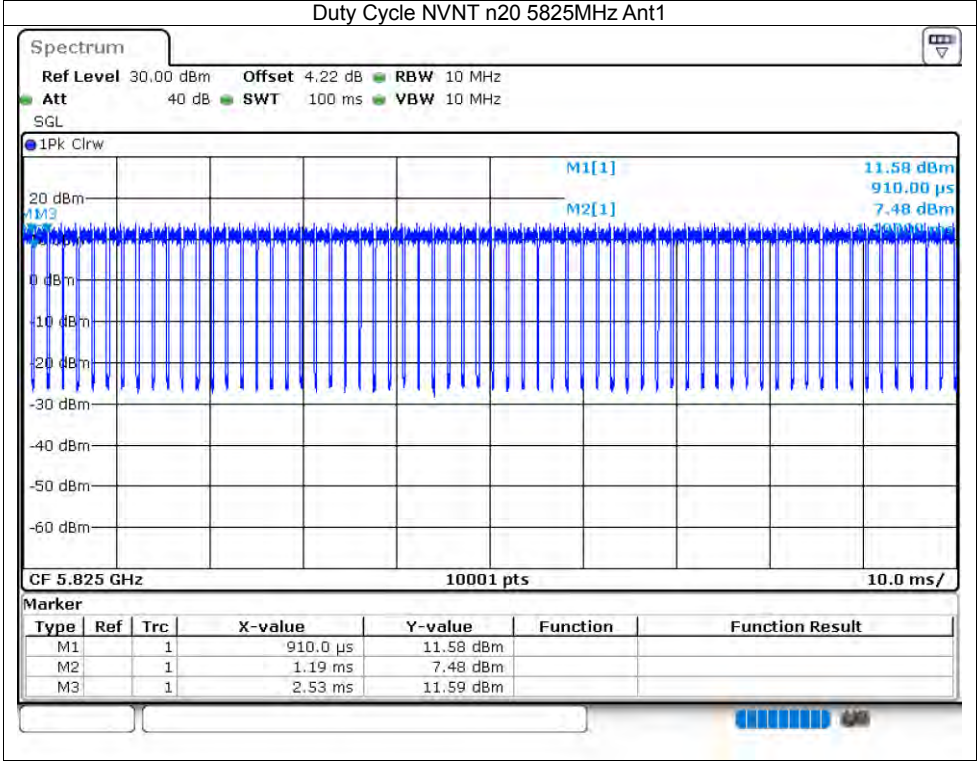
Duty Cycle NVNT n20 5745MHz Ant1



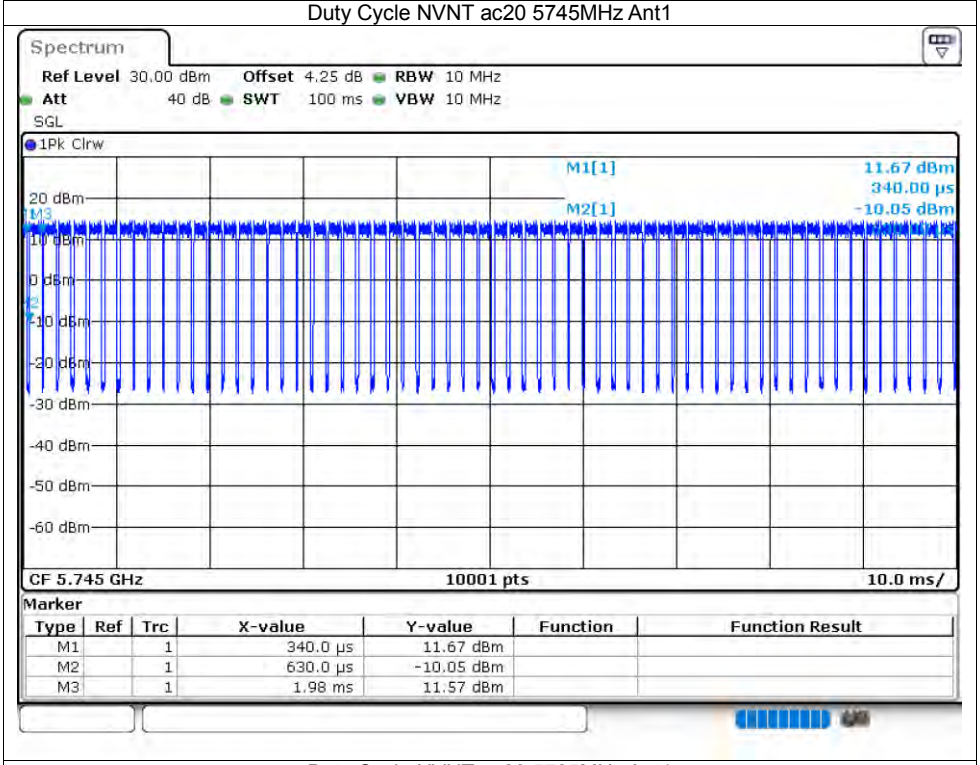
Duty Cycle NVNT n20 5785MHz Ant1



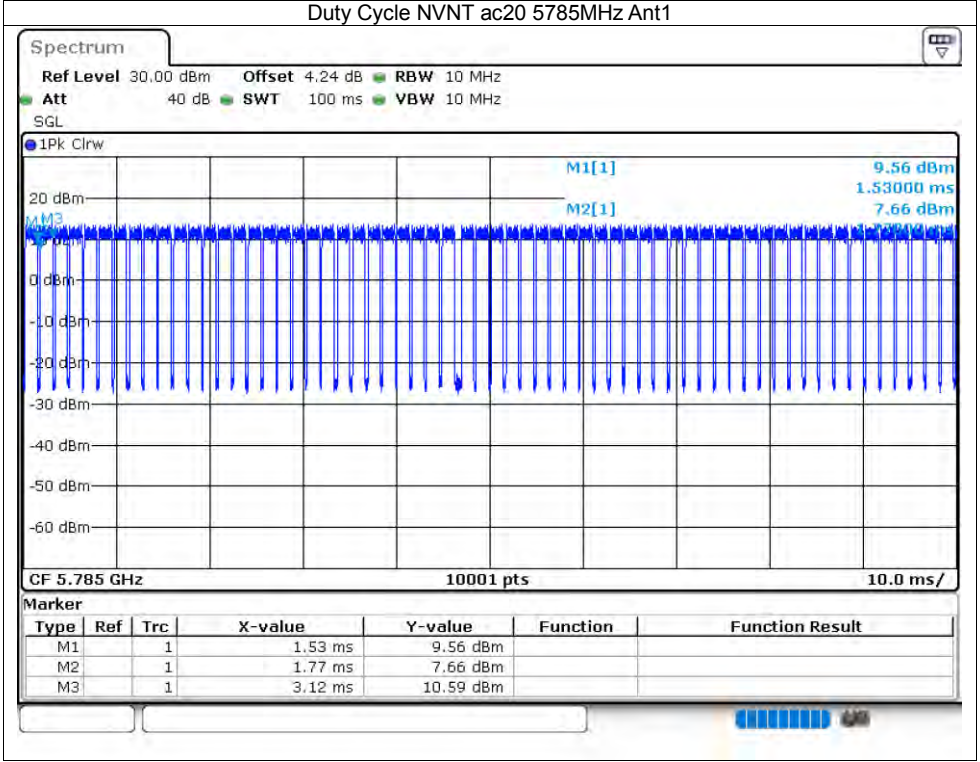
Duty Cycle NVNT n20 5825MHz Ant1



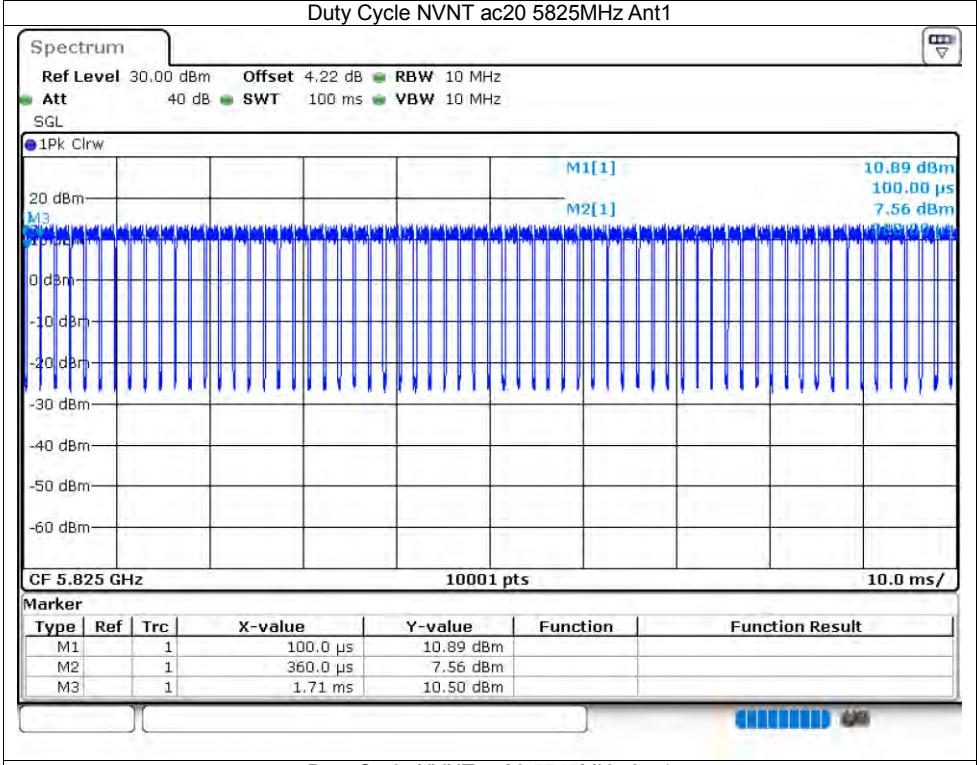
Duty Cycle NVNT ac20 5745MHz Ant1



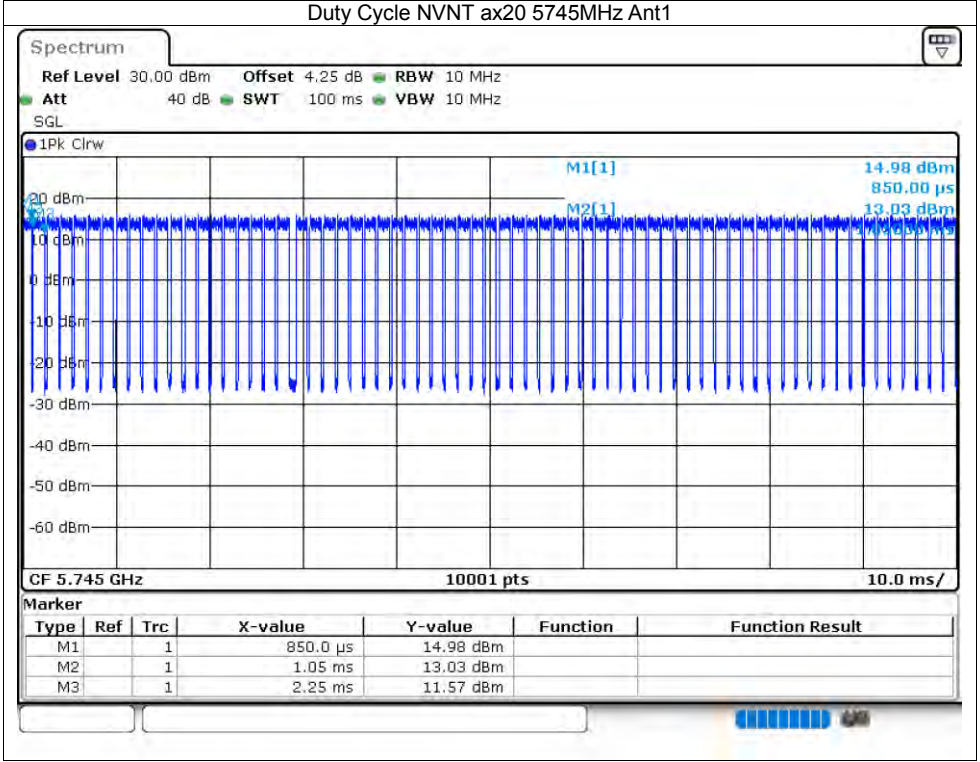
Duty Cycle NVNT ac20 5785MHz Ant1



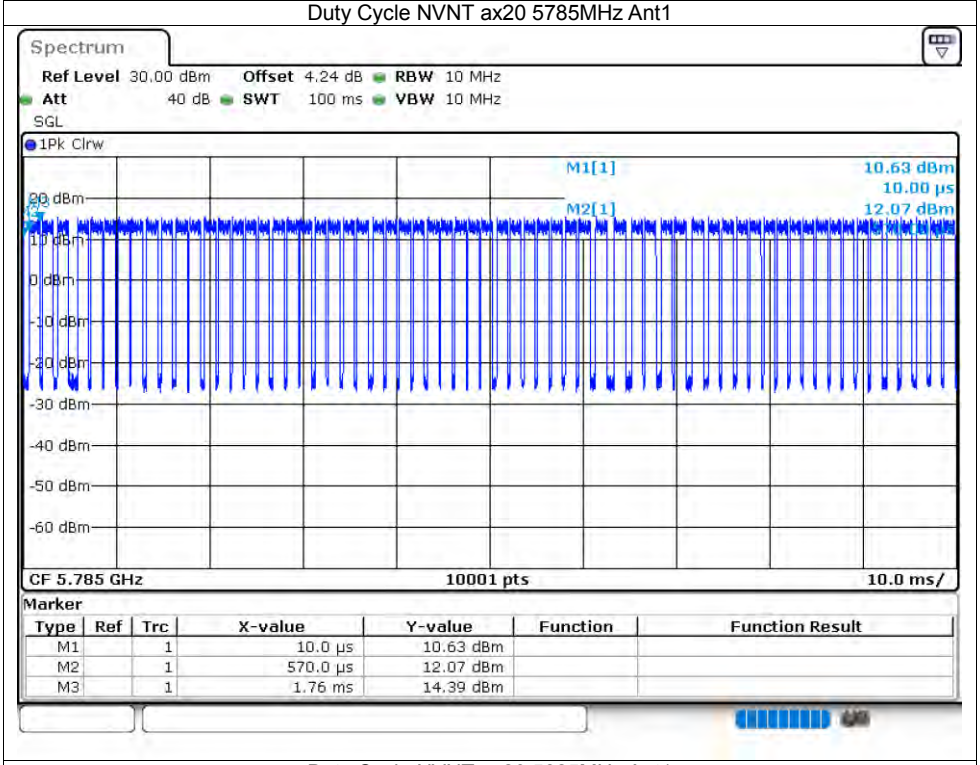
Duty Cycle NVNT ac20 5825MHz Ant1



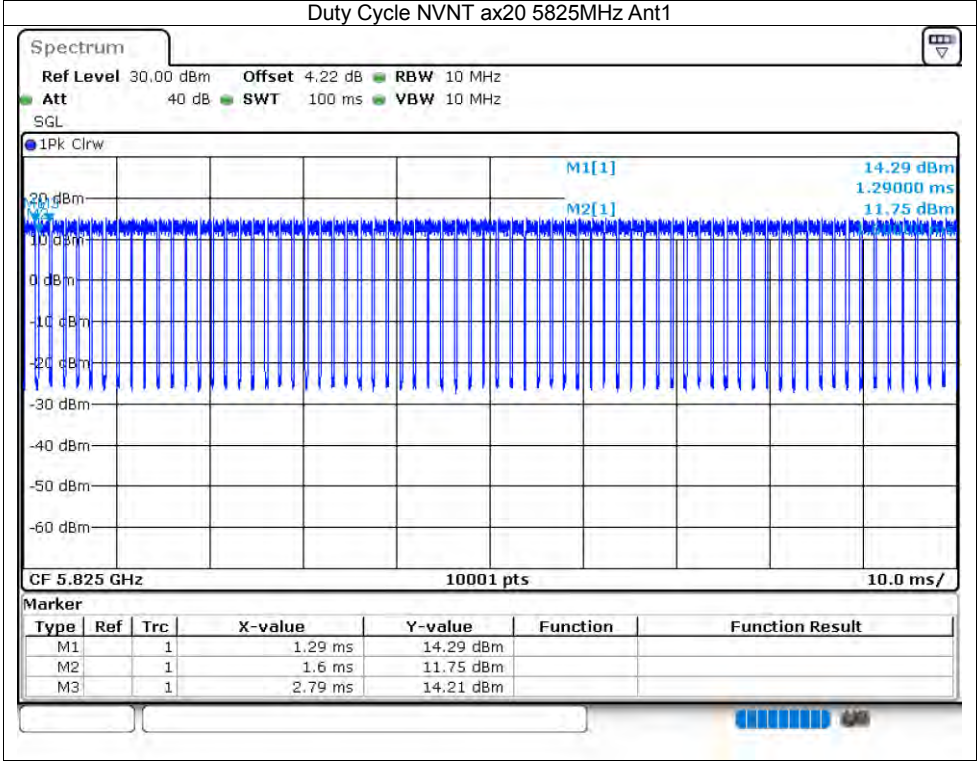
Duty Cycle NVNT ax20 5745MHz Ant1



Duty Cycle NVNT ax20 5785MHz Ant1



Duty Cycle NVNT ax20 5825MHz Ant1



10.2.2 MAXIMUM CONDUCTED OUTPUT POWER

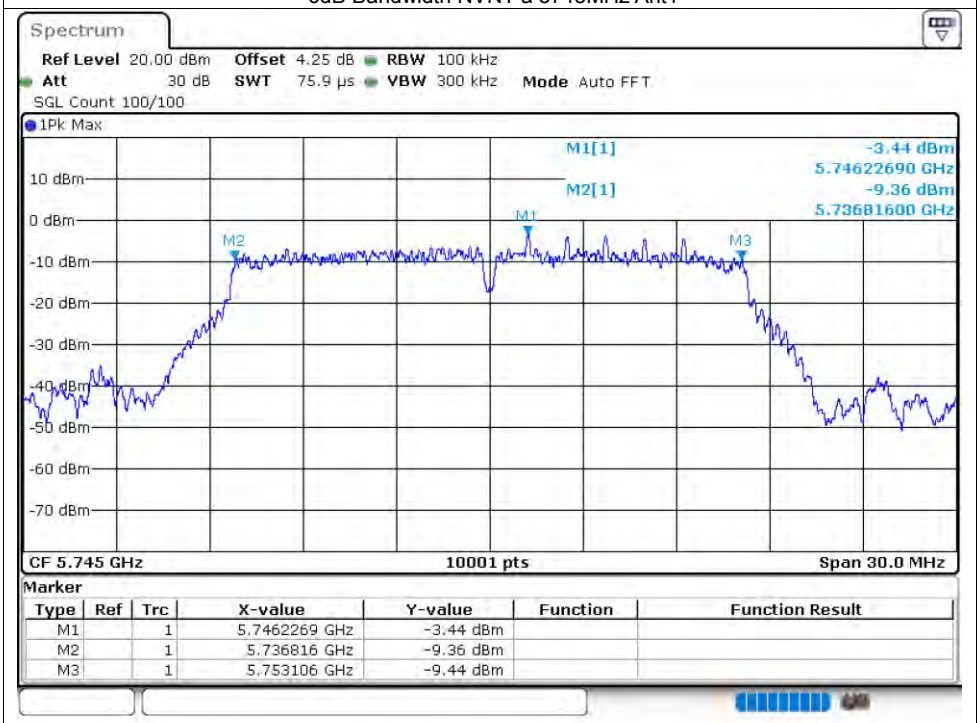
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	9.14	0.68	9.82	30	Pass
NVNT	a	5785	Ant1	8.85	0.69	9.54	30	Pass
NVNT	a	5825	Ant1	8.4	0.68	9.08	30	Pass
NVNT	n20	5745	Ant1	8.52	0.71	9.23	30	Pass
NVNT	n20	5785	Ant1	8.16	0.74	8.9	30	Pass
NVNT	n20	5825	Ant1	7.7	0.72	8.42	30	Pass
NVNT	ac20	5745	Ant1	9.2	0.72	9.92	30	Pass
NVNT	ac20	5785	Ant1	8.81	0.74	9.55	30	Pass
NVNT	ac20	5825	Ant1	8.36	0.71	9.07	30	Pass
NVNT	ax20	5745	Ant1	10.12	0.81	10.93	30	Pass
NVNT	ax20	5785	Ant1	9.89	1.05	10.94	30	Pass
NVNT	ax20	5825	Ant1	9.41	0.8	10.21	30	Pass

10.2.3 -6DB BANDWIDTH

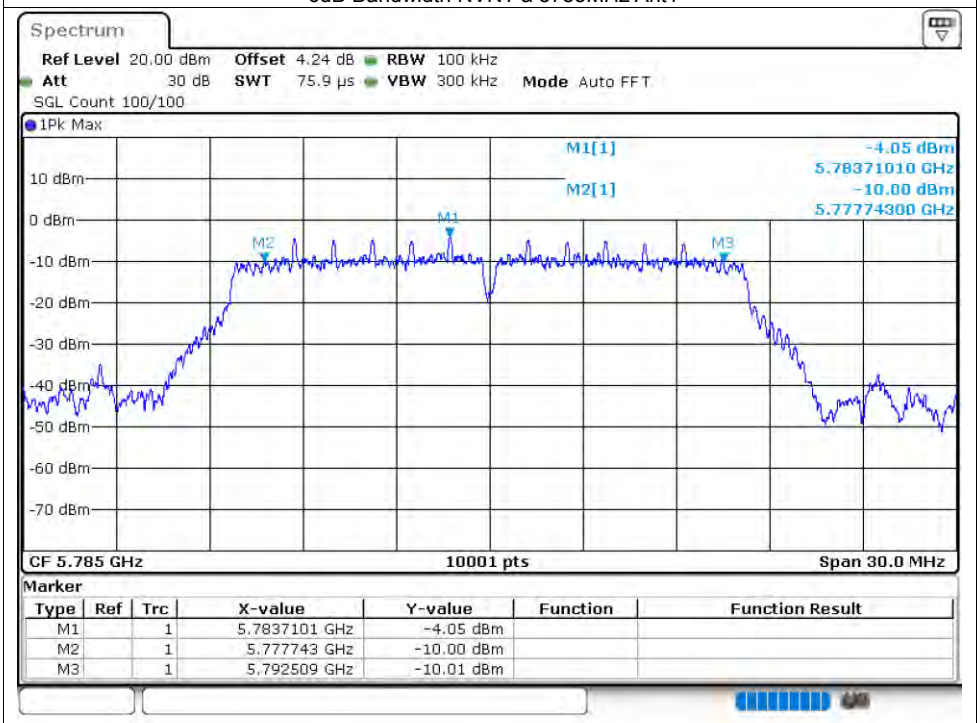
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.29	0.5	Pass
NVNT	a	5785	Ant1	14.766	0.5	Pass
NVNT	a	5825	Ant1	16.338	0.5	Pass
NVNT	n20	5745	Ant1	17.544	0.5	Pass
NVNT	n20	5785	Ant1	16.008	0.5	Pass
NVNT	n20	5825	Ant1	14.031	0.5	Pass
NVNT	ac20	5745	Ant1	17.64	0.5	Pass
NVNT	ac20	5785	Ant1	17.145	0.5	Pass
NVNT	ac20	5825	Ant1	17.631	0.5	Pass
NVNT	ax20	5745	Ant1	15.027	0.5	Pass
NVNT	ax20	5785	Ant1	6.333	0.5	Pass
NVNT	ax20	5825	Ant1	15.147	0.5	Pass

Test Graphs

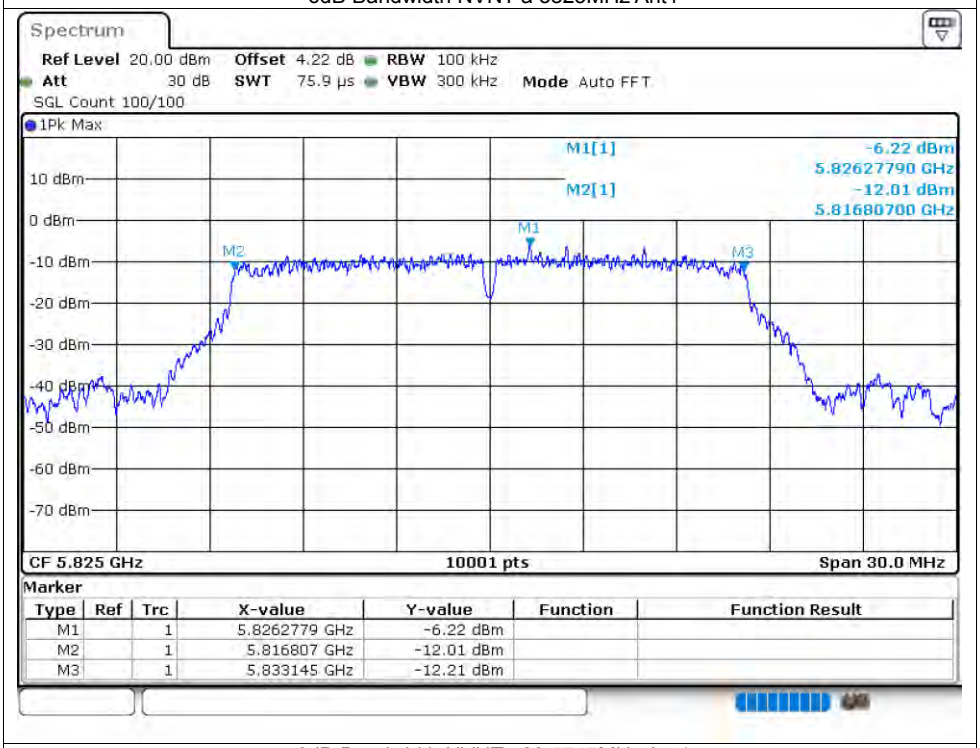
-6dB Bandwidth NVNT a 5745MHz Ant1



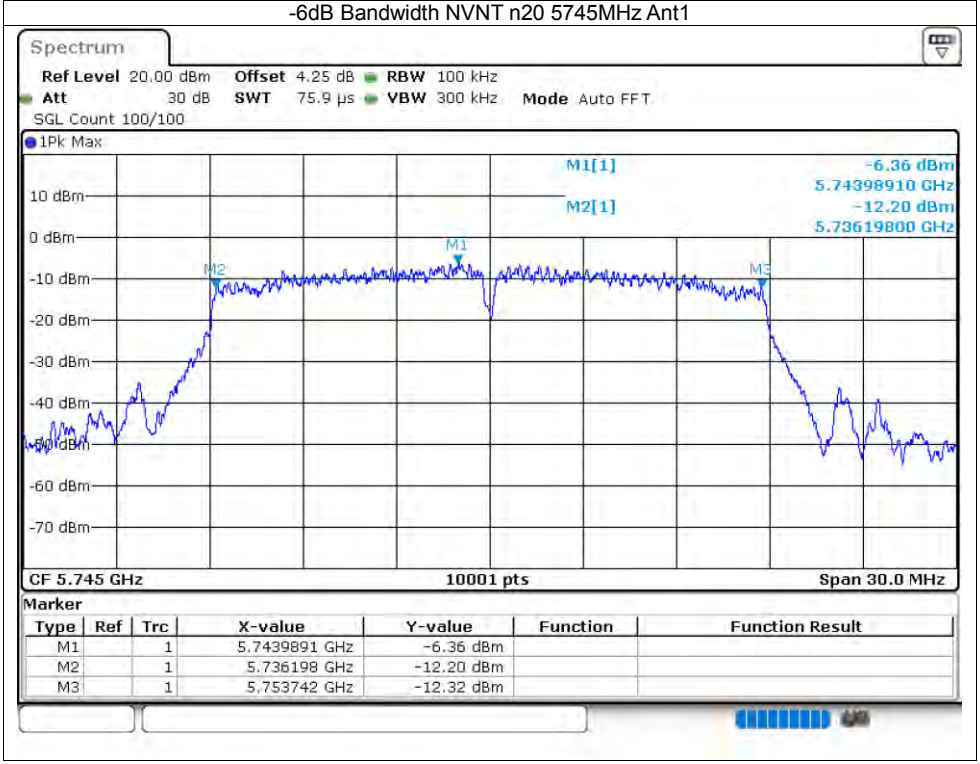
-6dB Bandwidth NVNT a 5785MHz Ant1



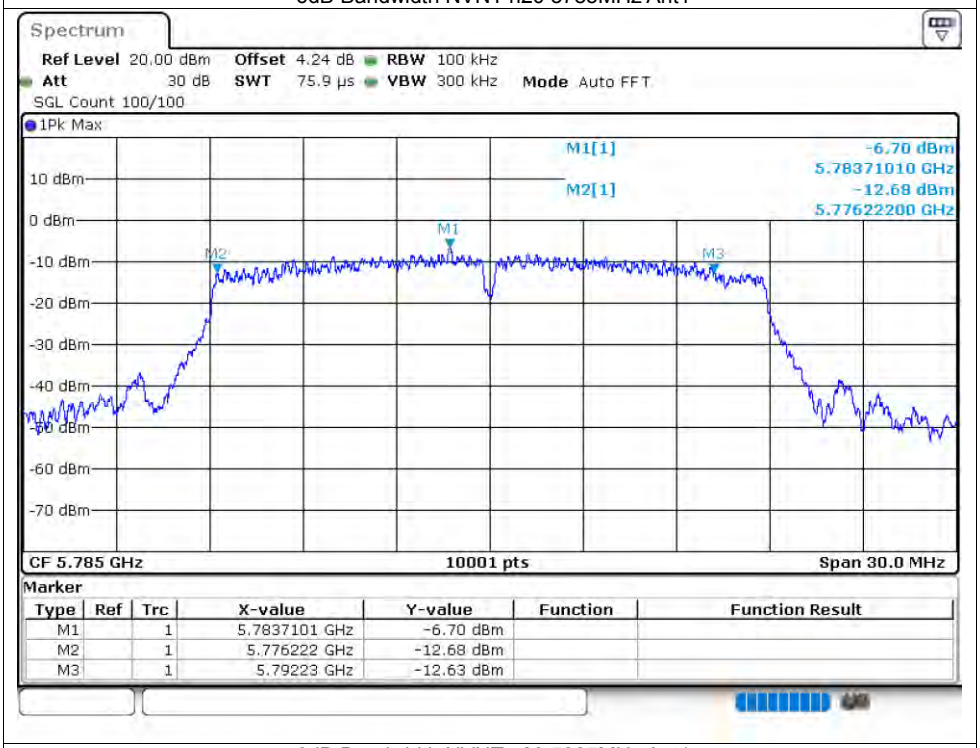
-6dB Bandwidth NVNT a 5825MHz Ant1



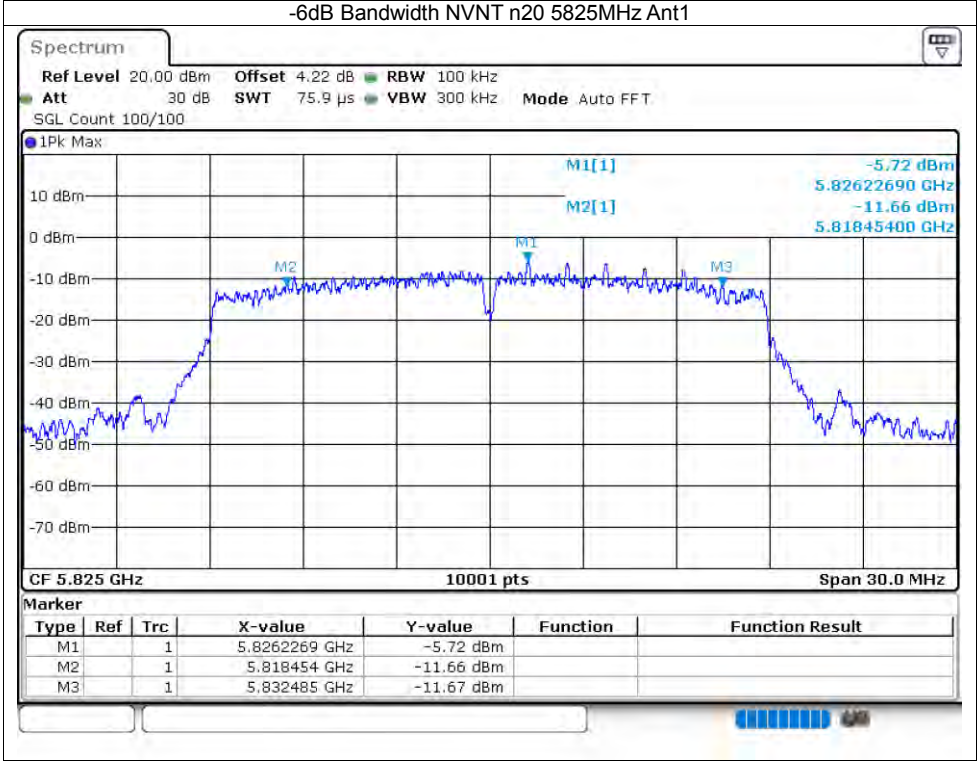
-6dB Bandwidth NVNT n20 5745MHz Ant1



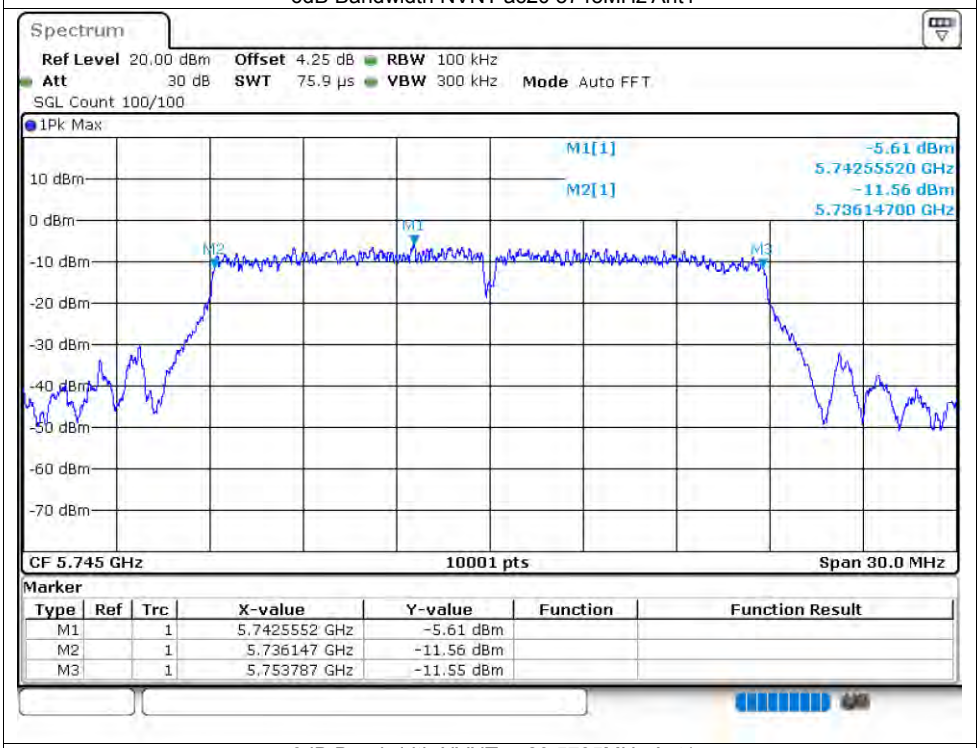
-6dB Bandwidth NVNT n20 5785MHz Ant1



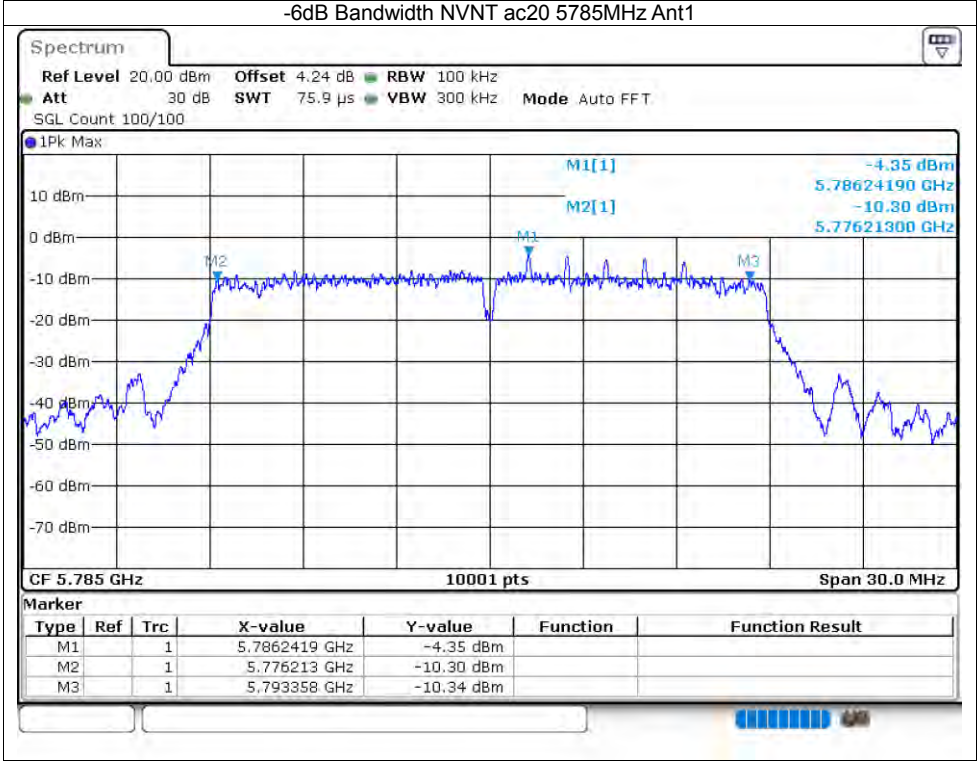
-6dB Bandwidth NVNT n20 5825MHz Ant1



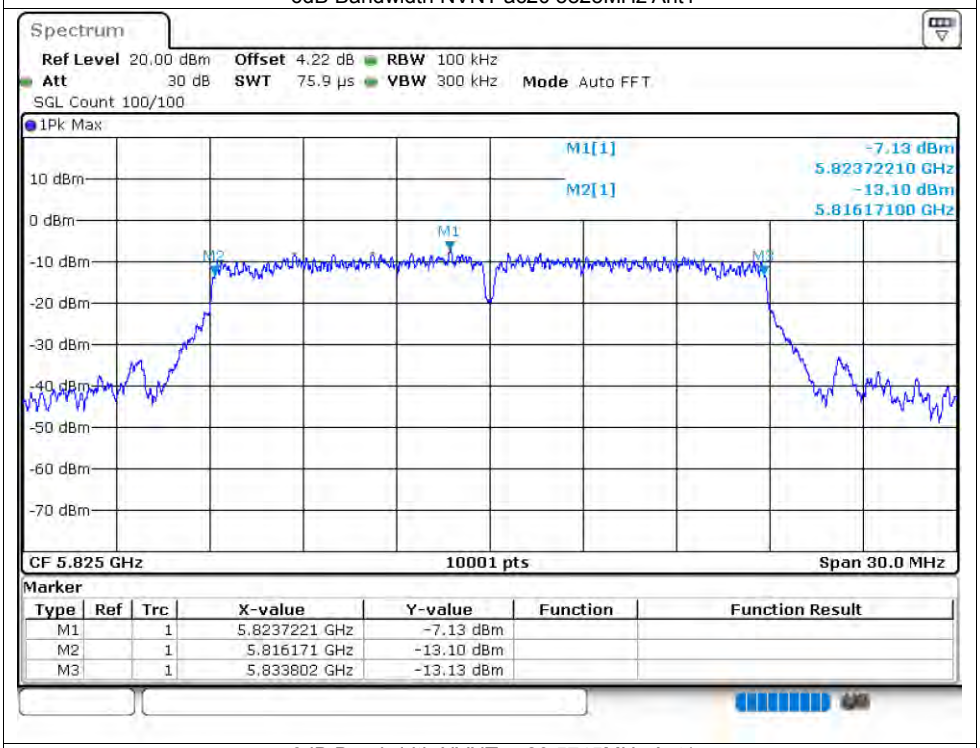
-6dB Bandwidth NVNT ac20 5745MHz Ant1



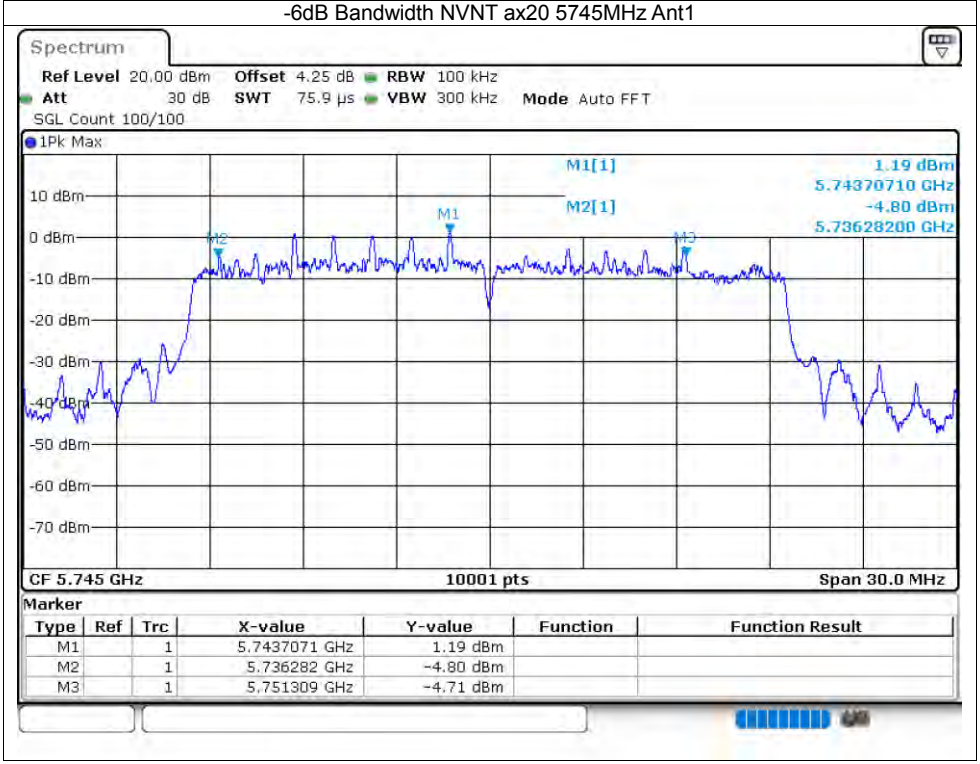
-6dB Bandwidth NVNT ac20 5785MHz Ant1



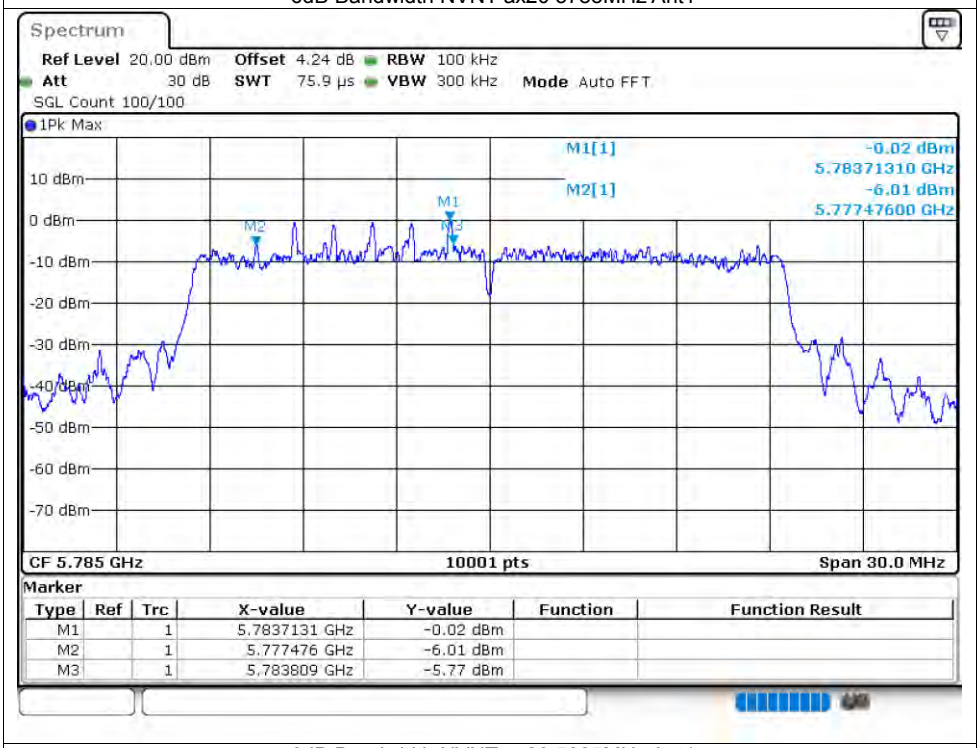
-6dB Bandwidth NVNT ac20 5825MHz Ant1



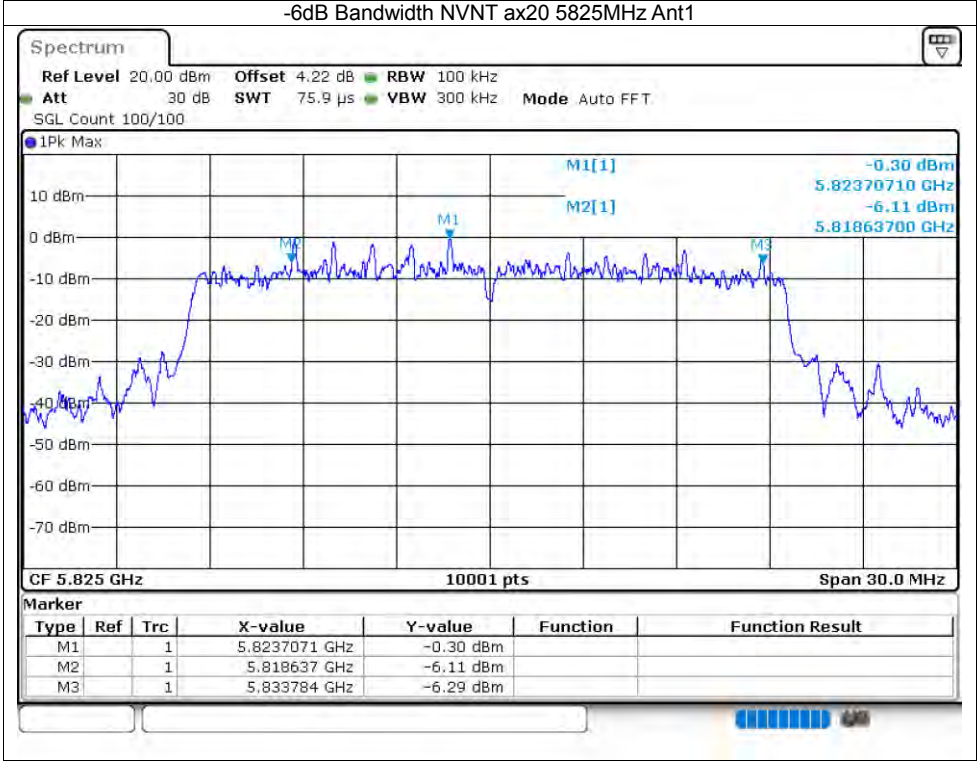
-6dB Bandwidth NVNT ax20 5745MHz Ant1



-6dB Bandwidth NVNT ax20 5785MHz Ant1



-6dB Bandwidth NVNT ax20 5825MHz Ant1



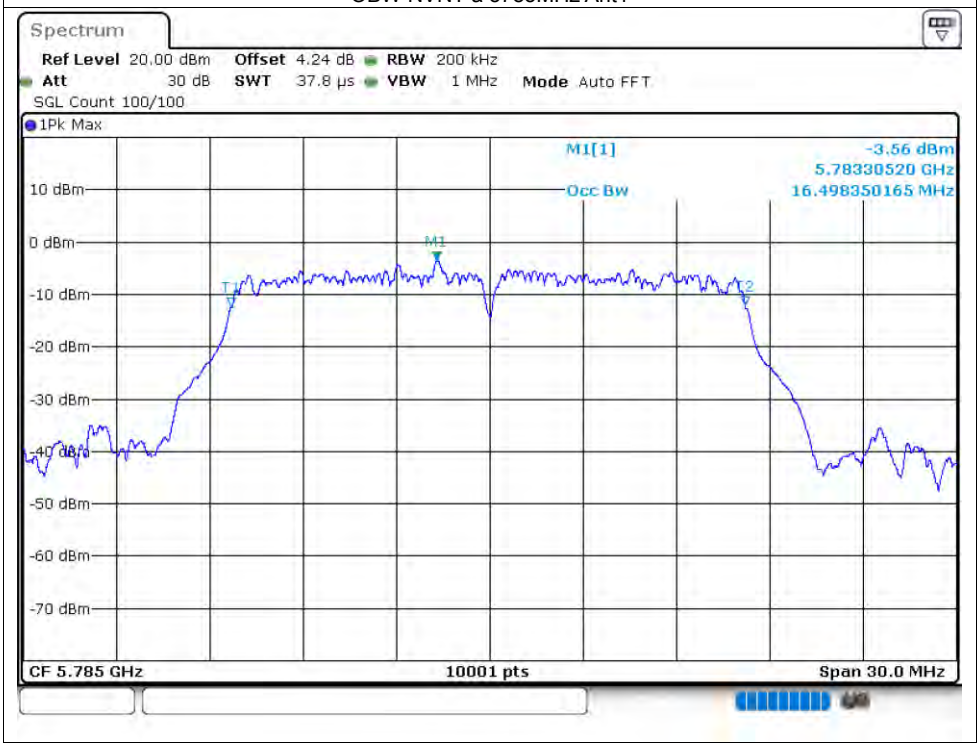
10.2.4 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.519
NVNT	a	5785	Ant1	16.498
NVNT	a	5825	Ant1	16.63
NVNT	n20	5745	Ant1	17.509
NVNT	n20	5785	Ant1	17.413
NVNT	n20	5825	Ant1	17.458
NVNT	ac20	5745	Ant1	17.701
NVNT	ac20	5785	Ant1	17.662
NVNT	ac20	5825	Ant1	17.719
NVNT	ax20	5745	Ant1	18.796
NVNT	ax20	5785	Ant1	18.766
NVNT	ax20	5825	Ant1	18.721

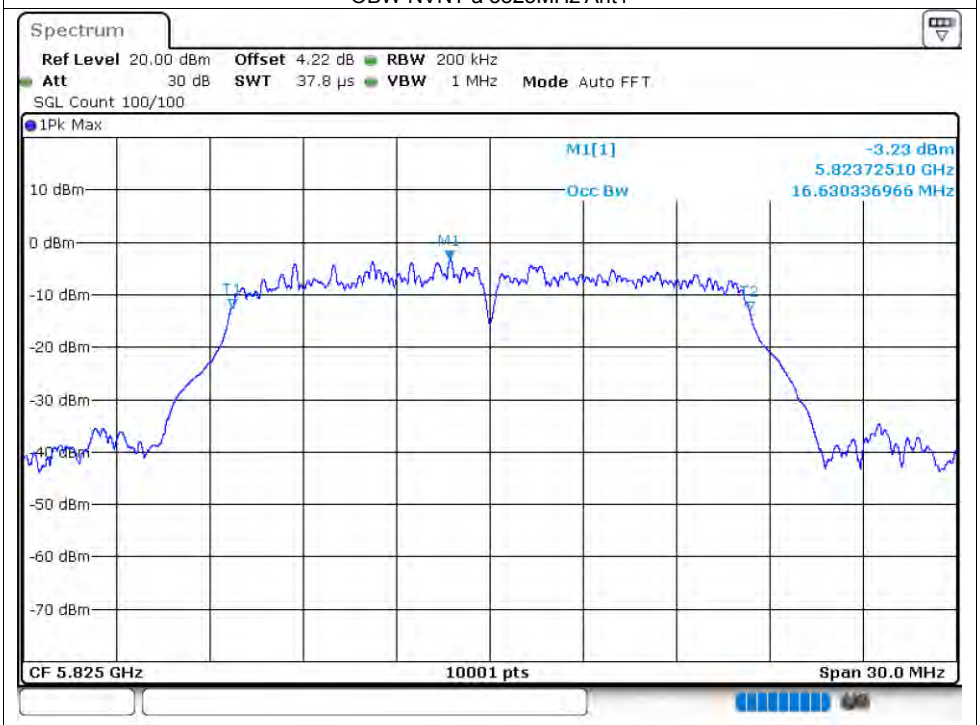
Test Graphs

OBW NVNT a 5745MHz Ant1

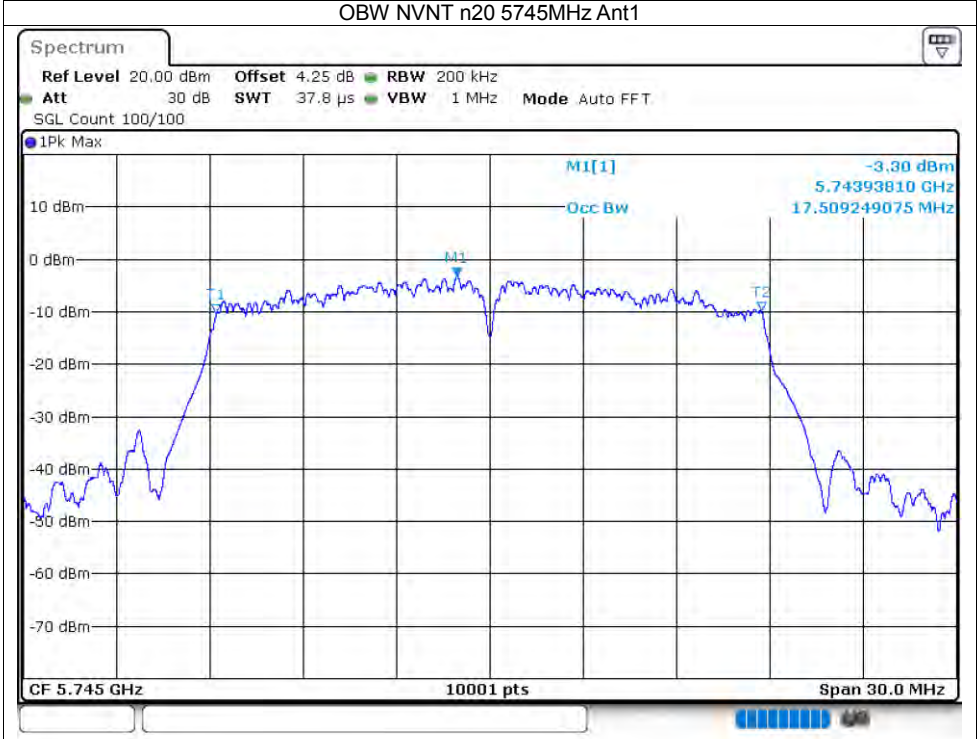
OBW NVNT a 5785MHz Ant1



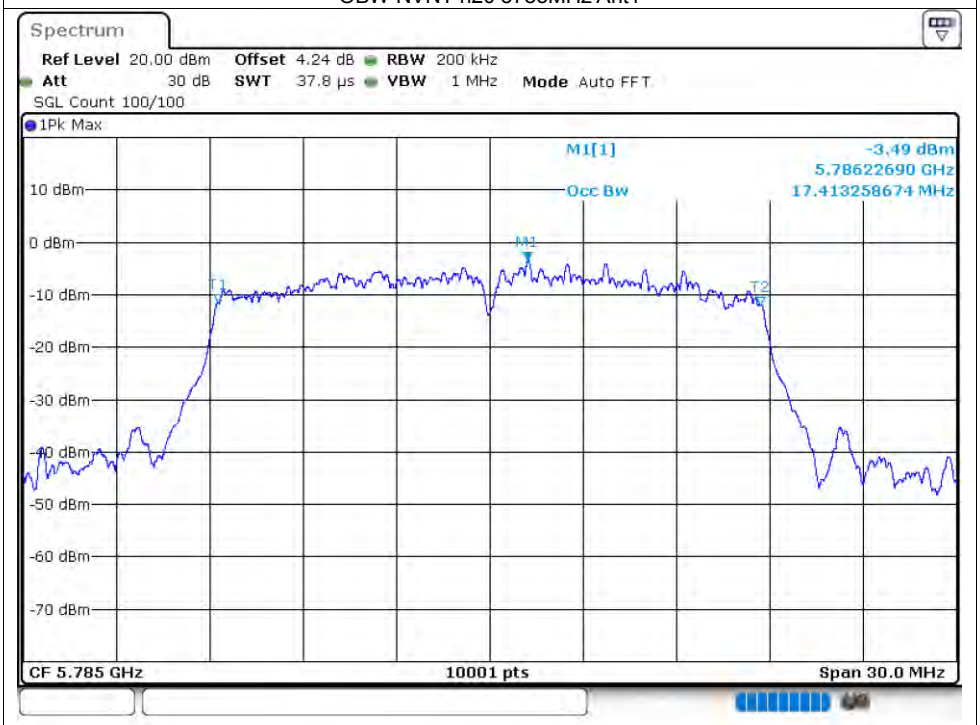
OBW NVNT a 5825MHz Ant1



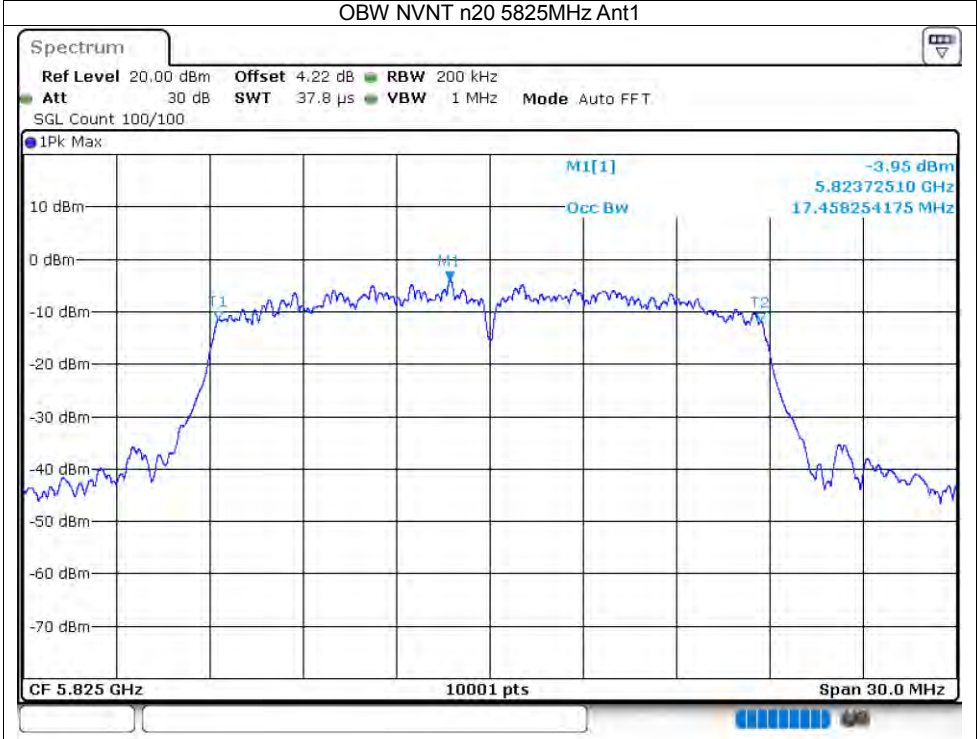
OBW NVNT n20 5745MHz Ant1



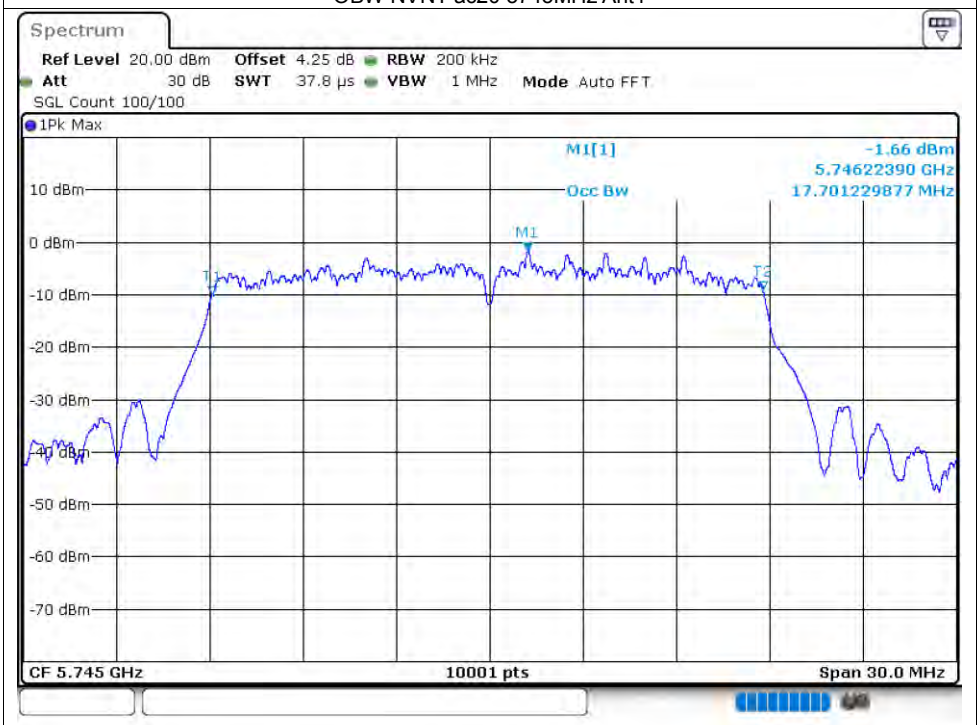
OBW NVNT n20 5785MHz Ant1



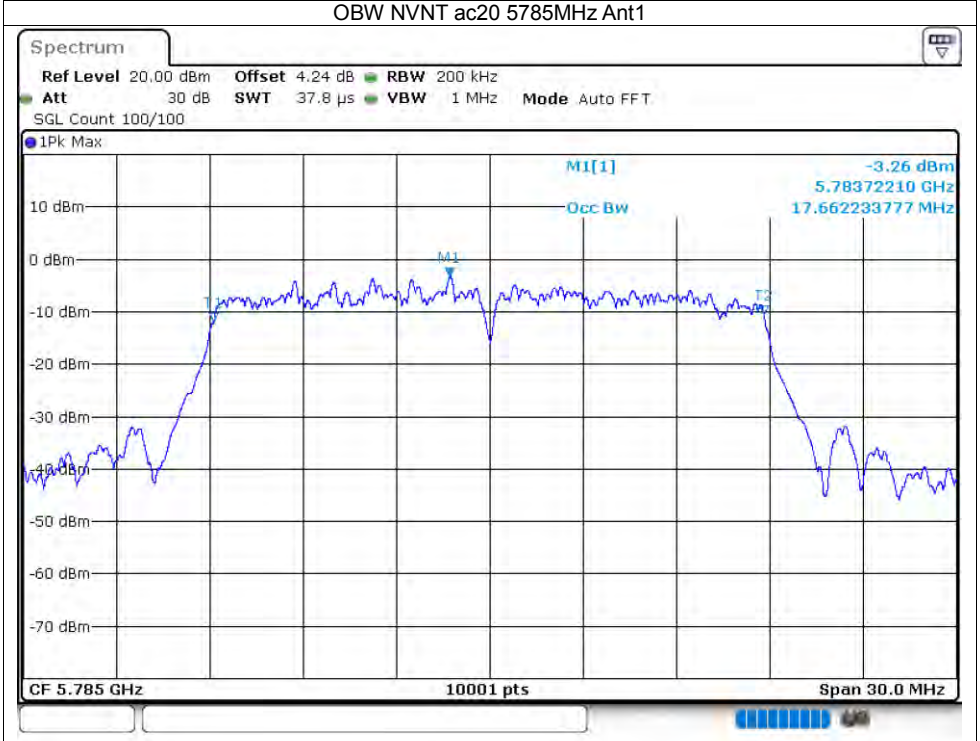
OBW NVNT n20 5825MHz Ant1



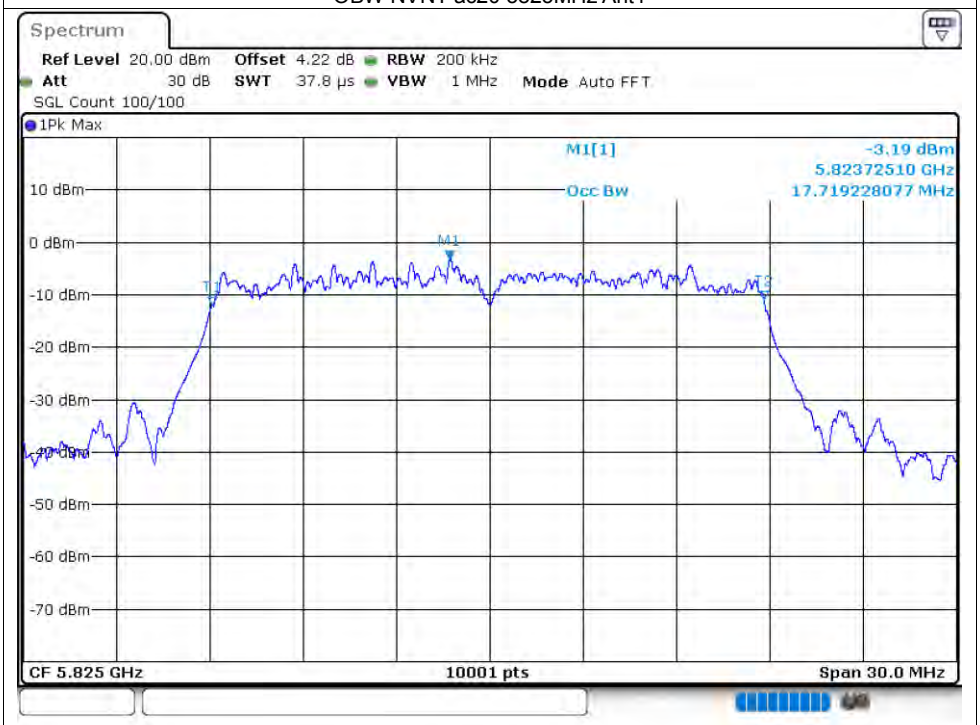
OBW NVNT ac20 5745MHz Ant1



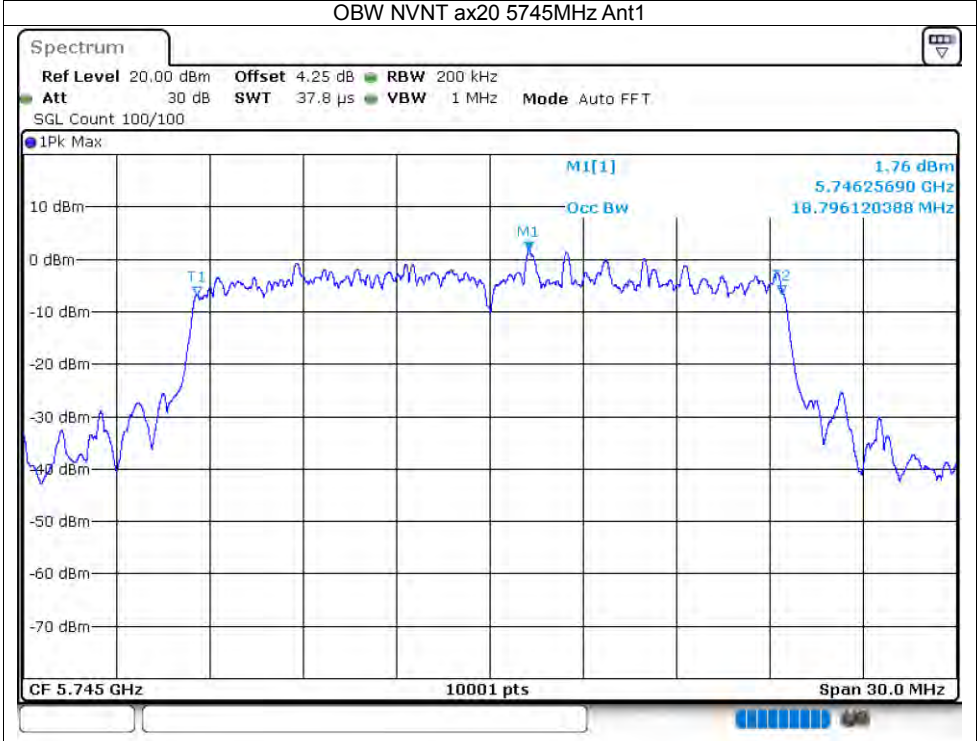
OBW NVNT ac20 5785MHz Ant1



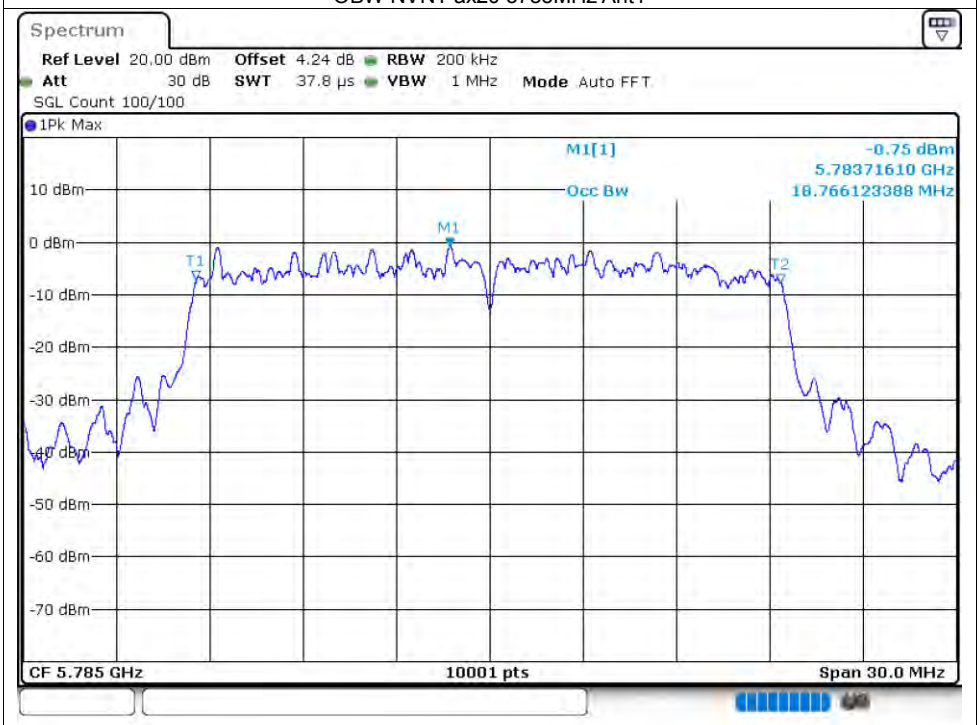
OBW NVNT ac20 5825MHz Ant1



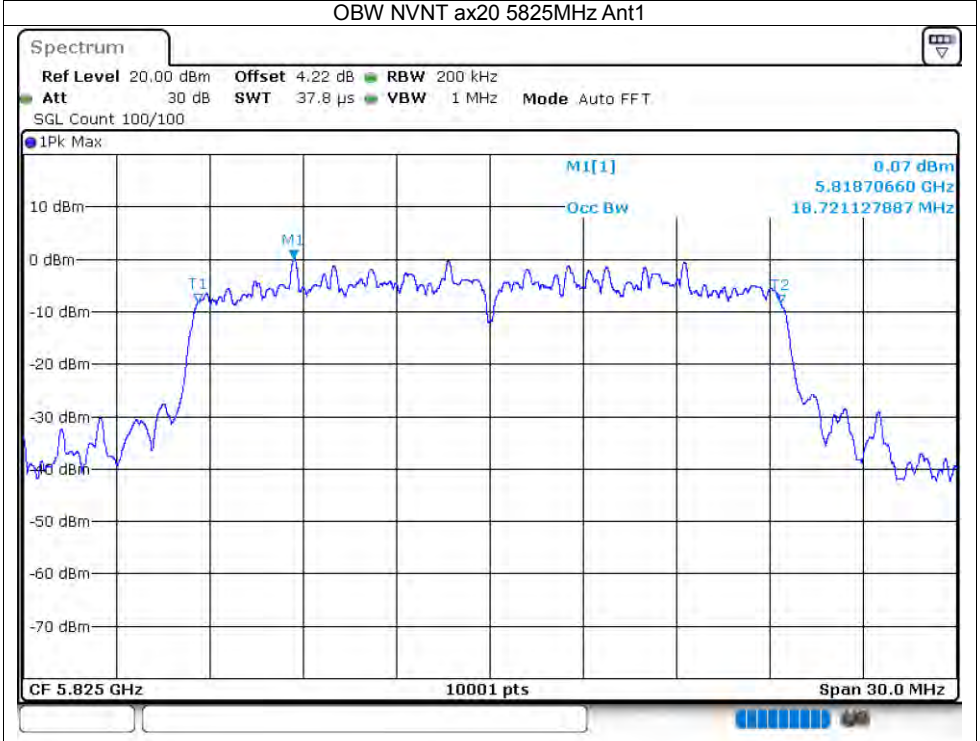
OBW NVNT ax20 5745MHz Ant1



OBW NVNT ax20 5785MHz Ant1



OBW NVNT ax20 5825MHz Ant1

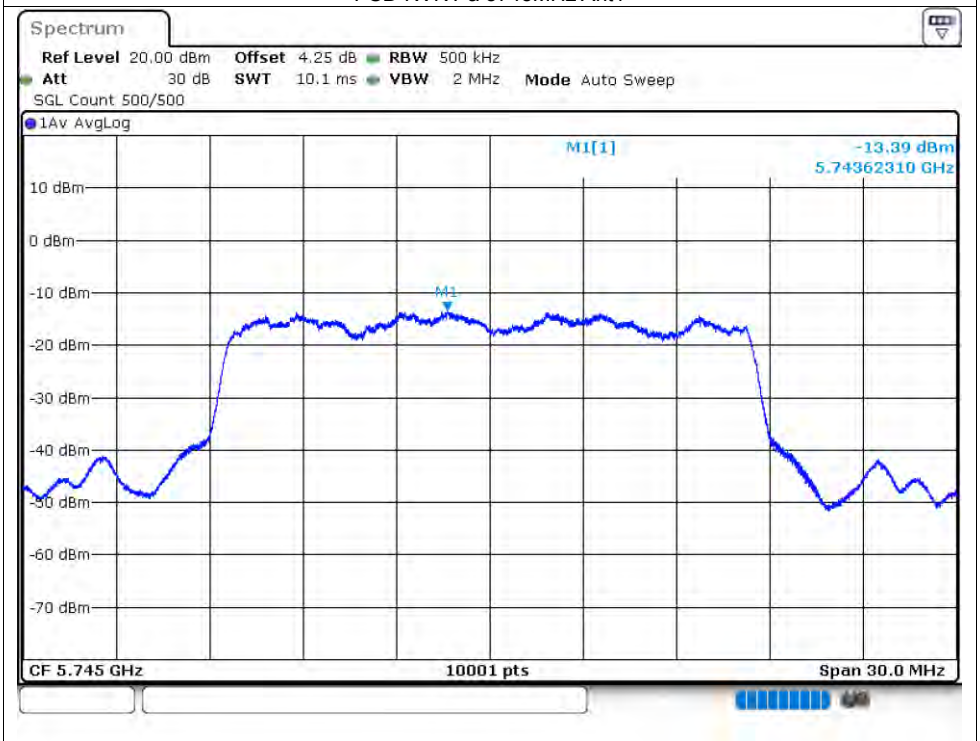


10.2.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL

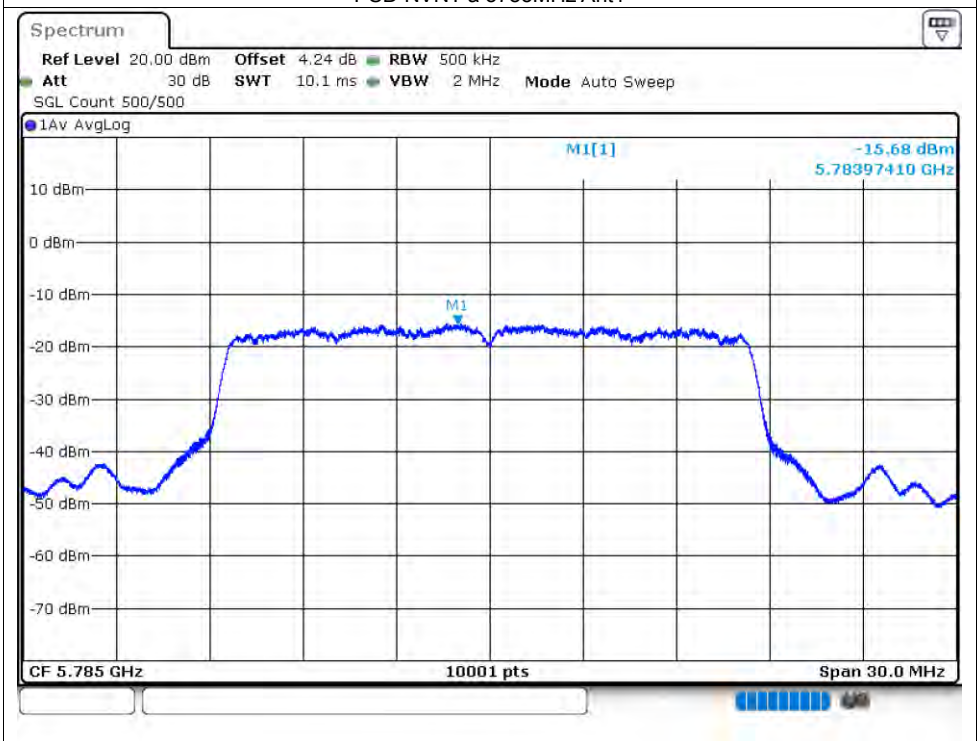
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-13.39	0.68	-12.71	30	Pass
NVNT	a	5785	Ant1	-15.68	0.69	-14.99	30	Pass
NVNT	a	5825	Ant1	-15.51	0.68	-14.83	30	Pass
NVNT	n20	5745	Ant1	-14.66	0.71	-13.95	30	Pass
NVNT	n20	5785	Ant1	-15.84	0.74	-15.1	30	Pass
NVNT	n20	5825	Ant1	-16.08	0.72	-15.36	30	Pass
NVNT	ac20	5745	Ant1	-13.56	0.72	-12.84	30	Pass
NVNT	ac20	5785	Ant1	-15.95	0.74	-15.21	30	Pass
NVNT	ac20	5825	Ant1	-14.89	0.71	-14.18	30	Pass
NVNT	ax20	5745	Ant1	-14.26	0.81	-13.45	30	Pass
NVNT	ax20	5785	Ant1	-14.41	1.05	-13.36	30	Pass
NVNT	ax20	5825	Ant1	-15.09	0.8	-14.29	30	Pass

Test Graphs

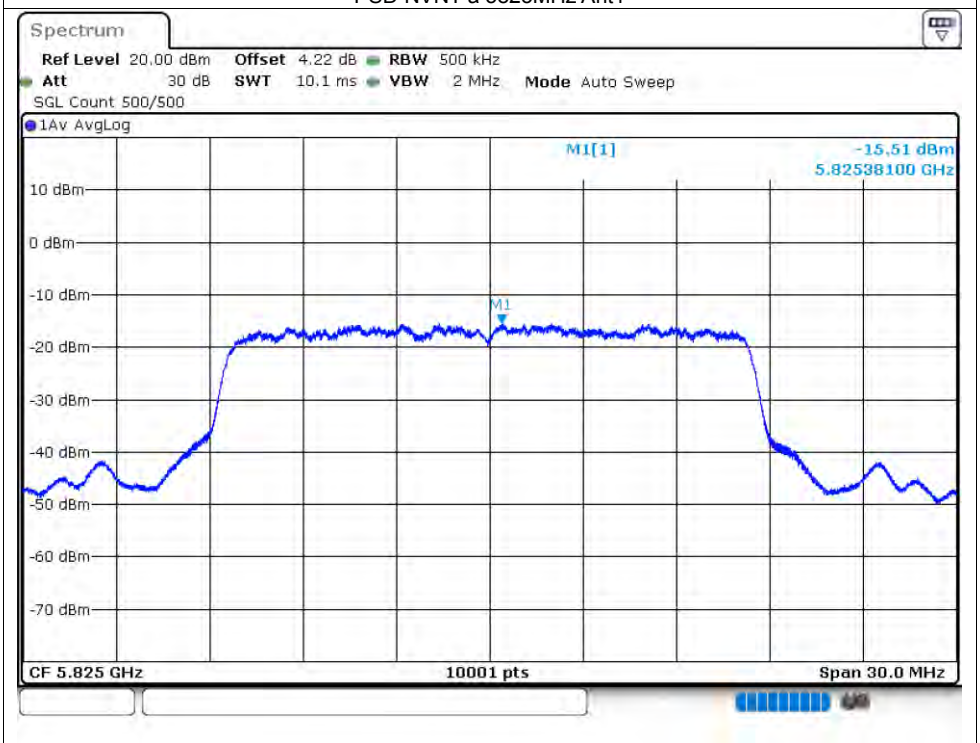
PSD NVNT a 5745MHz Ant1



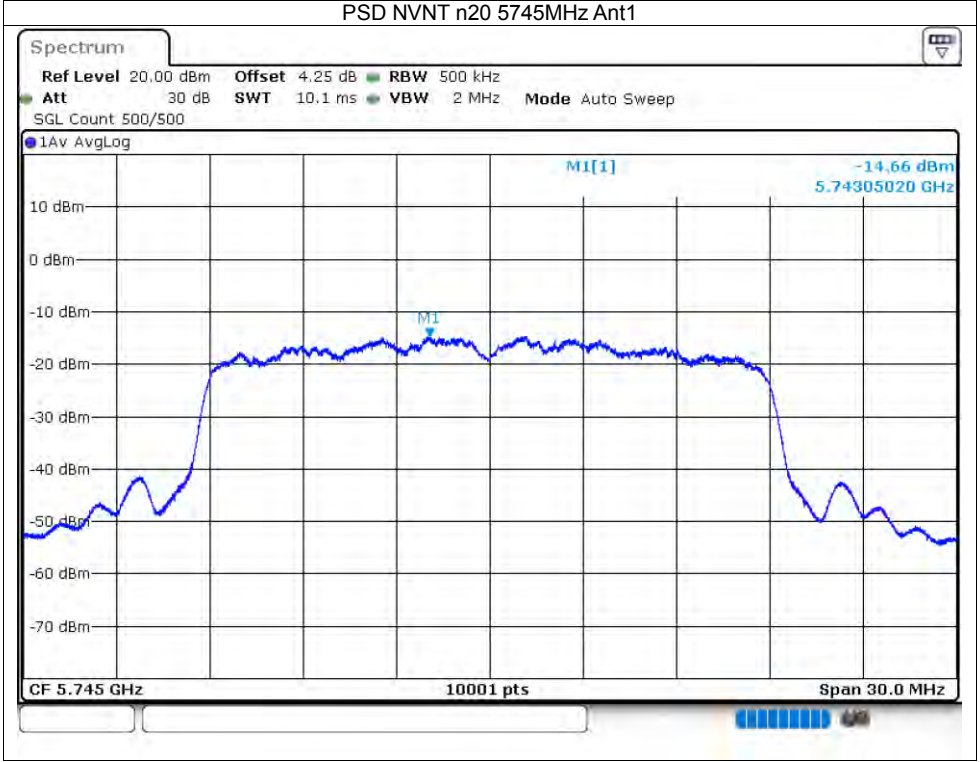
PSD NVNT a 5785MHz Ant1



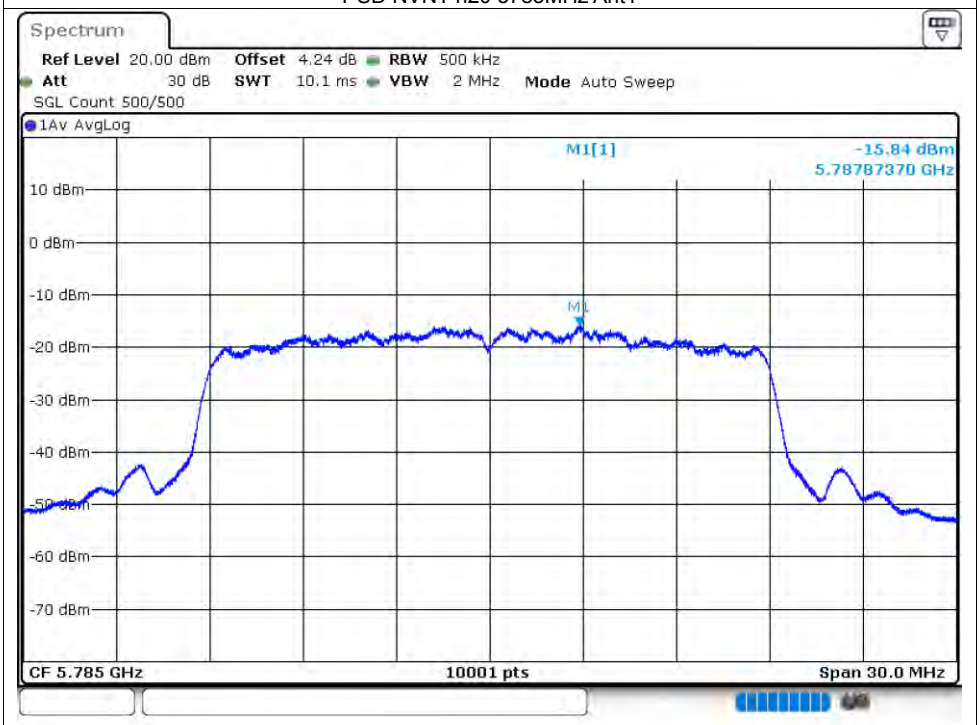
PSD NVNT a 5825MHz Ant1



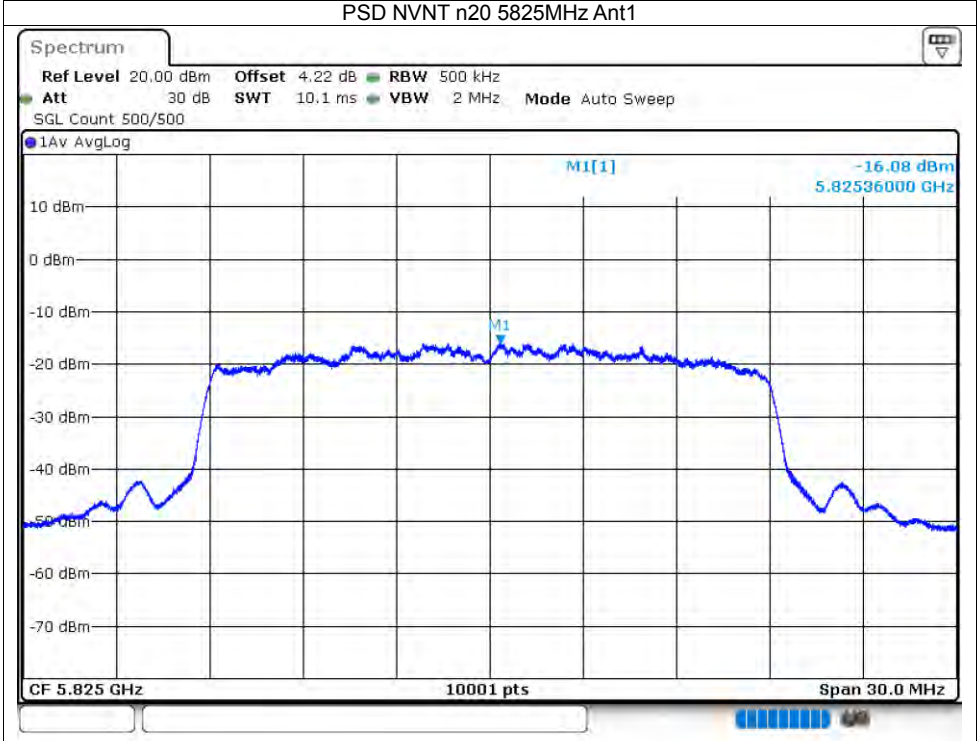
PSD NVNT n20 5745MHz Ant1



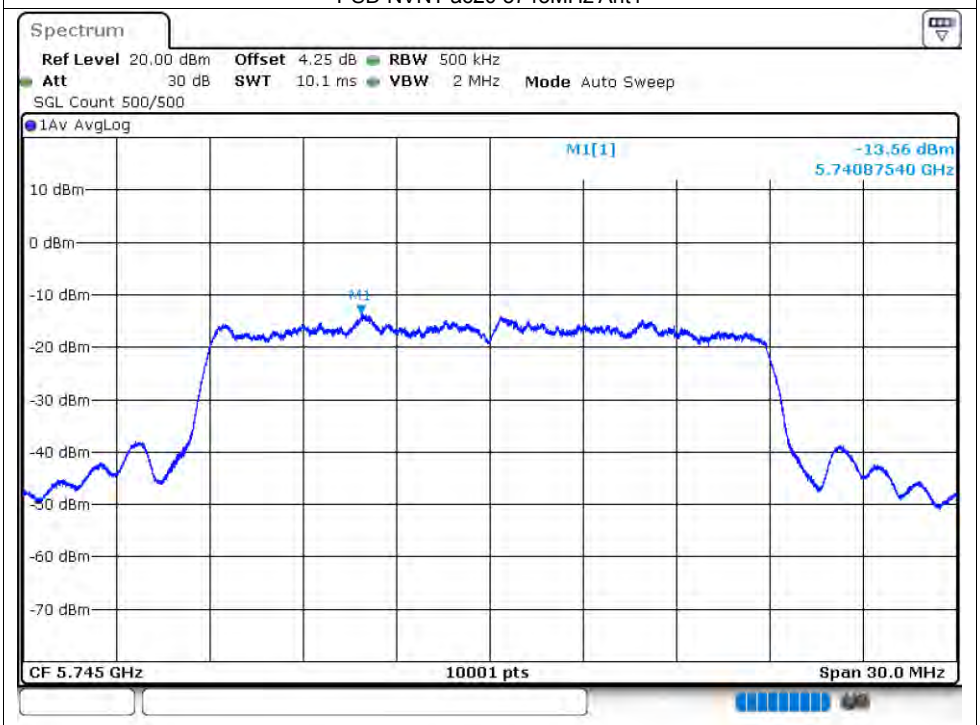
PSD NVNT n20 5785MHz Ant1



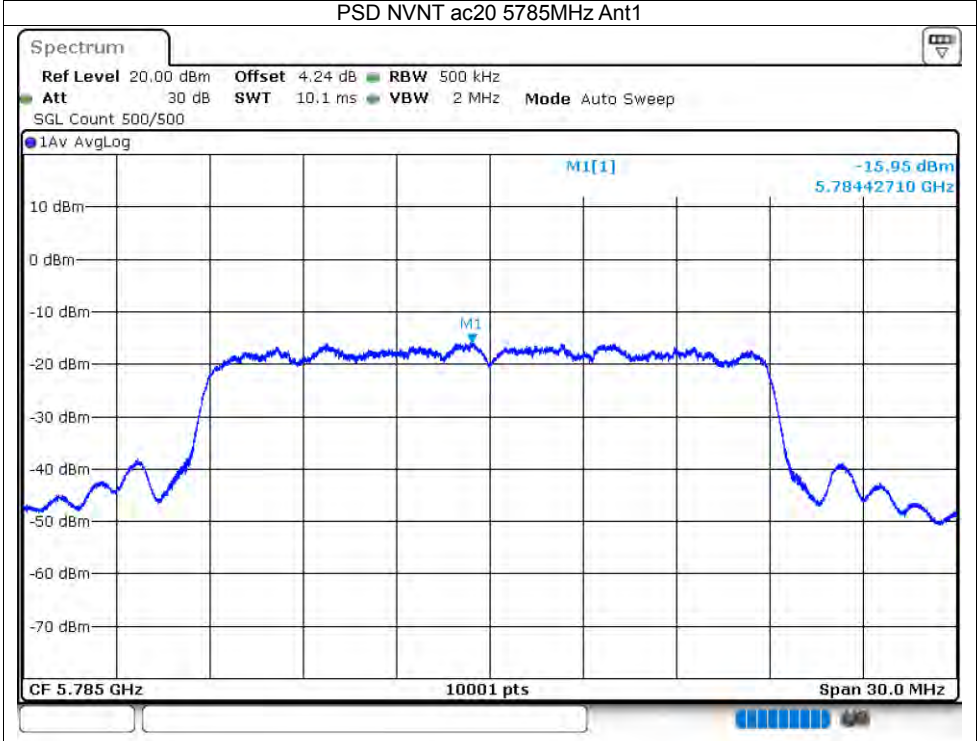
PSD NVNT n20 5825MHz Ant1



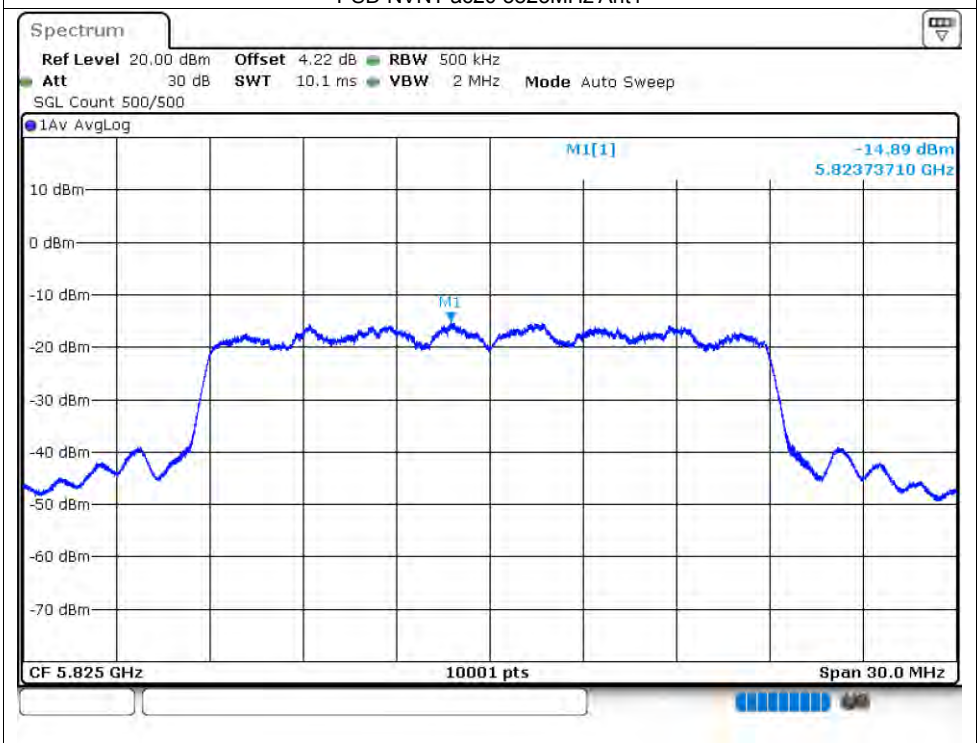
PSD NVNT ac20 5745MHz Ant1



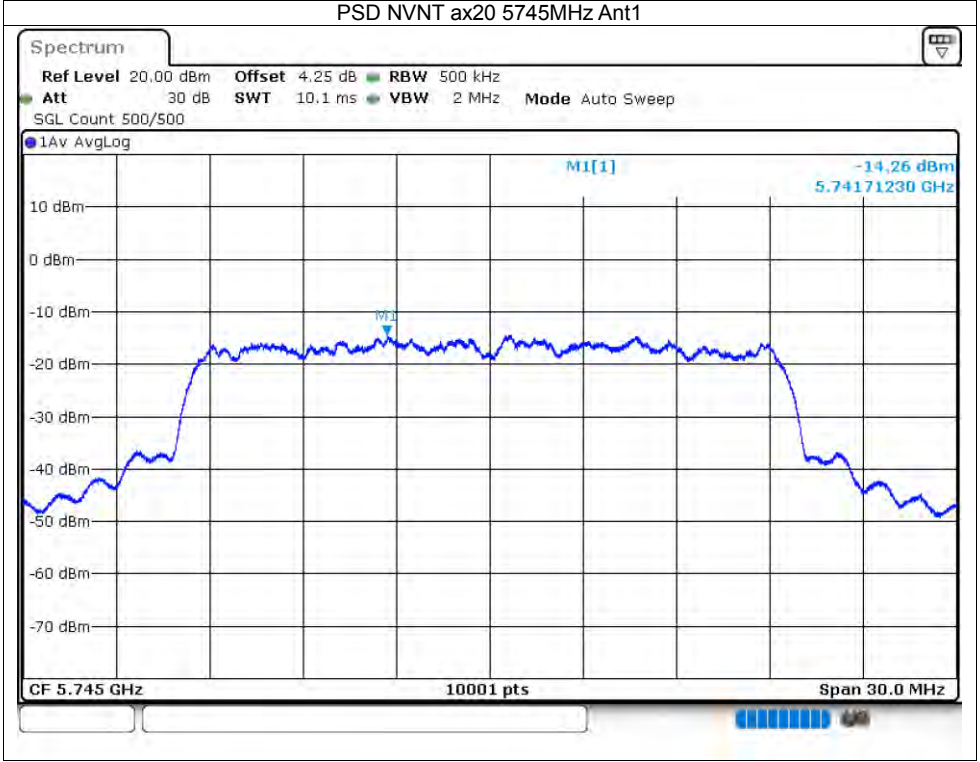
PSD NVNT ac20 5785MHz Ant1



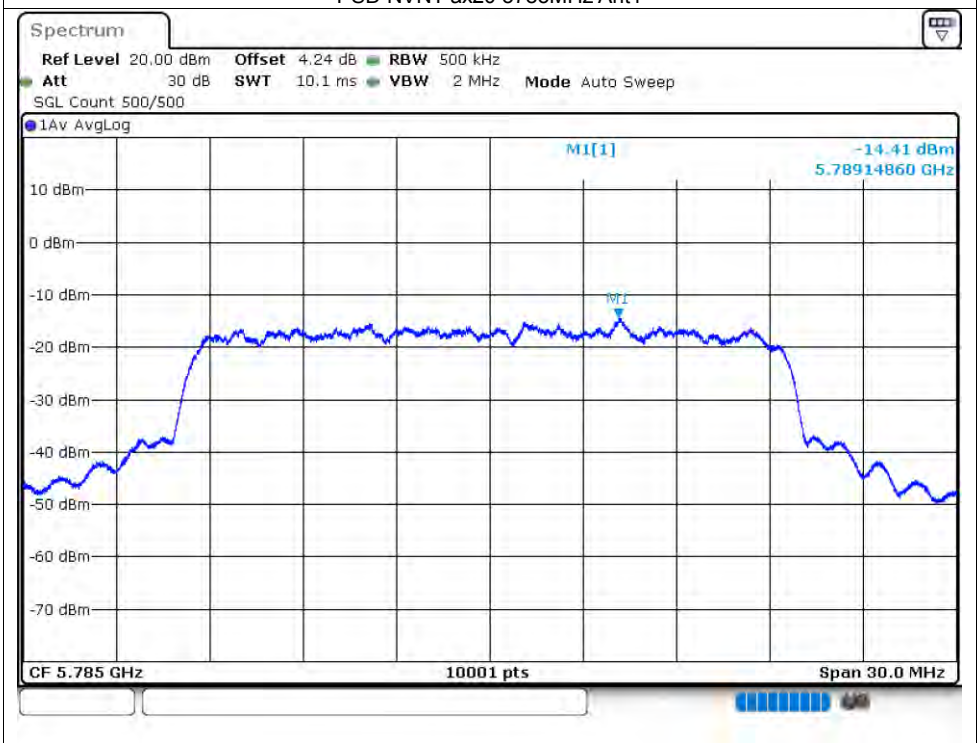
PSD NVNT ac20 5825MHz Ant1



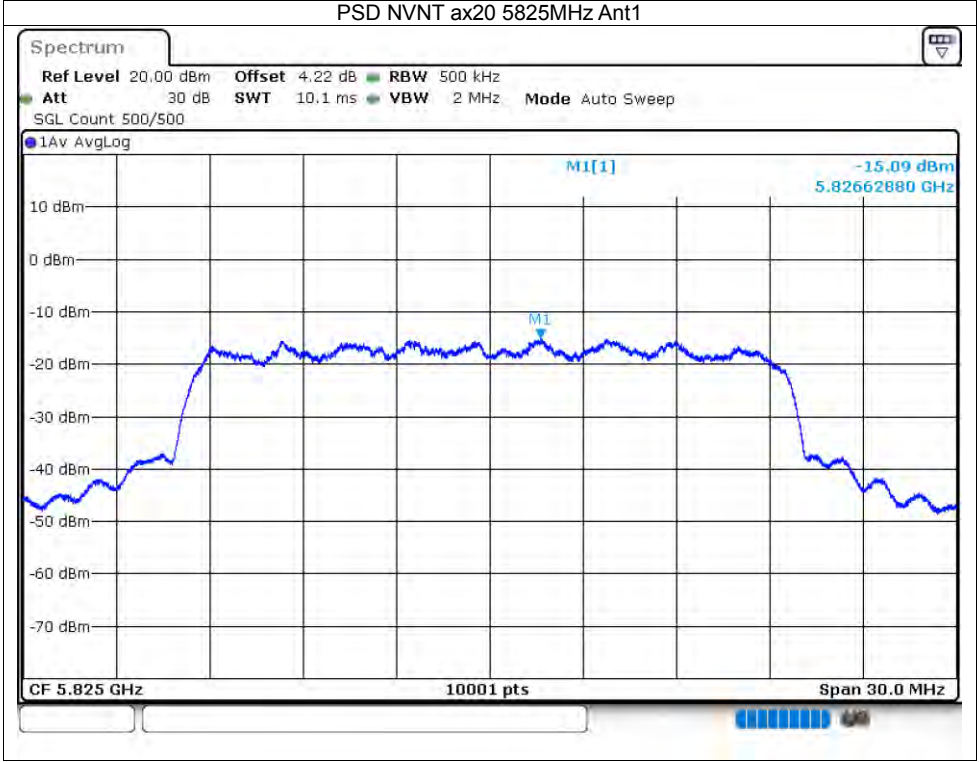
PSD NVNT ax20 5745MHz Ant1



PSD NVNT ax20 5785MHz Ant1



PSD NVNT ax20 5825MHz Ant1

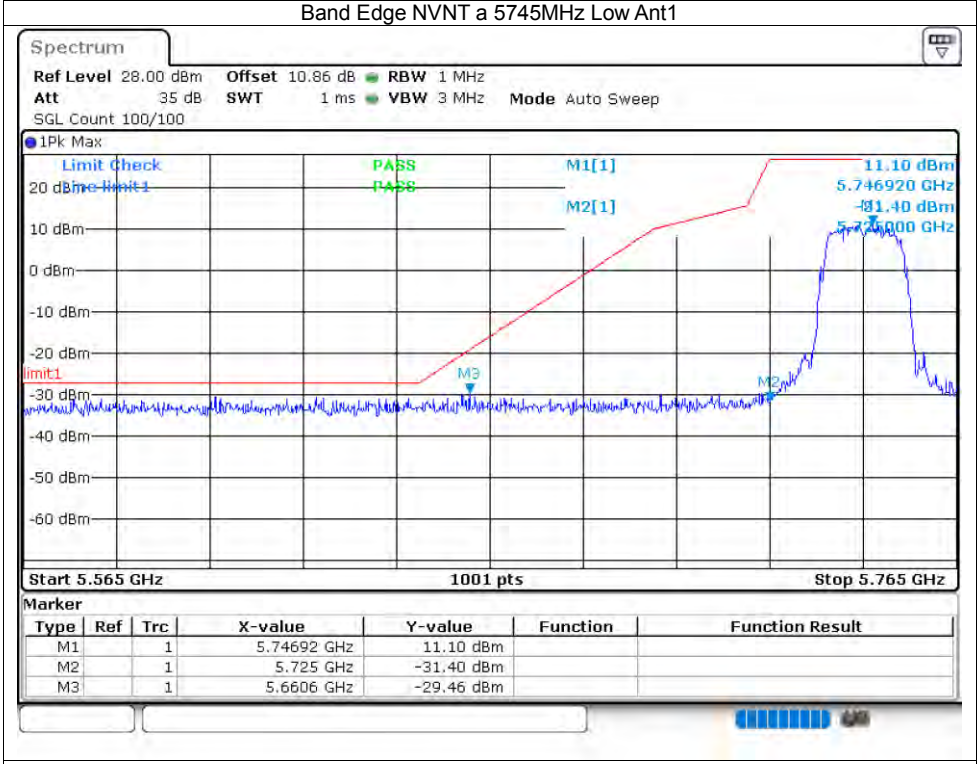


10.2.6 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Verdict
NVNT	a	5745	Ant1	-29.45	Pass
NVNT	a	5825	Ant1	-29	Pass
NVNT	n20	5745	Ant1	-30.1	Pass
NVNT	n20	5825	Ant1	-27.94	Pass
NVNT	ac20	5745	Ant1	-28.87	Pass
NVNT	ac20	5825	Ant1	-28.45	Pass
NVNT	ax20	5745	Ant1	-26.61	Pass
NVNT	ax20	5825	Ant1	-26.97	Pass

Test Graphs

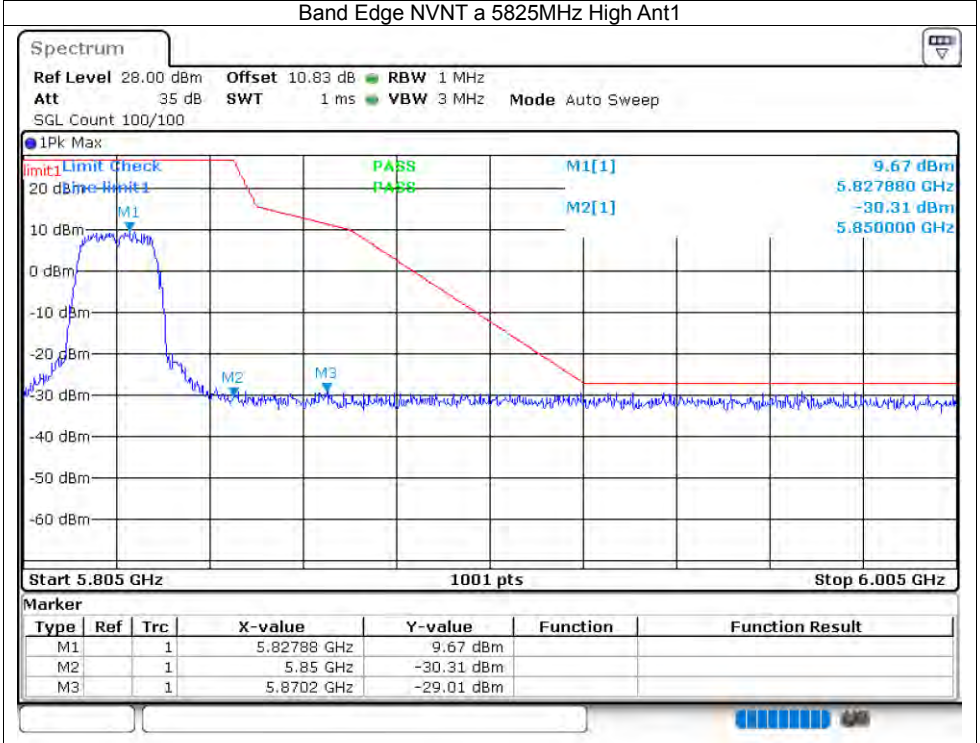
Band Edge NVNT a 5745MHz Low Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.74692 GHz	11.10 dBm		
M2		1	5.725 GHz	-31.40 dBm		
M3		1	5.6606 GHz	-29.46 dBm		

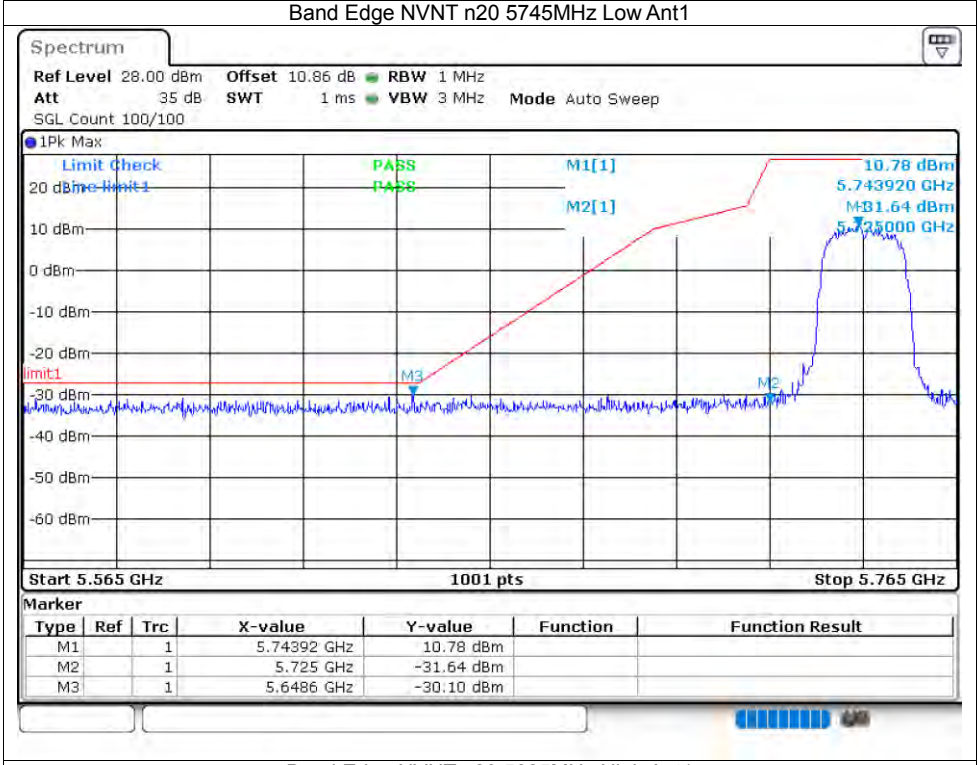
Band Edge NVNT a 5825MHz High Ant1



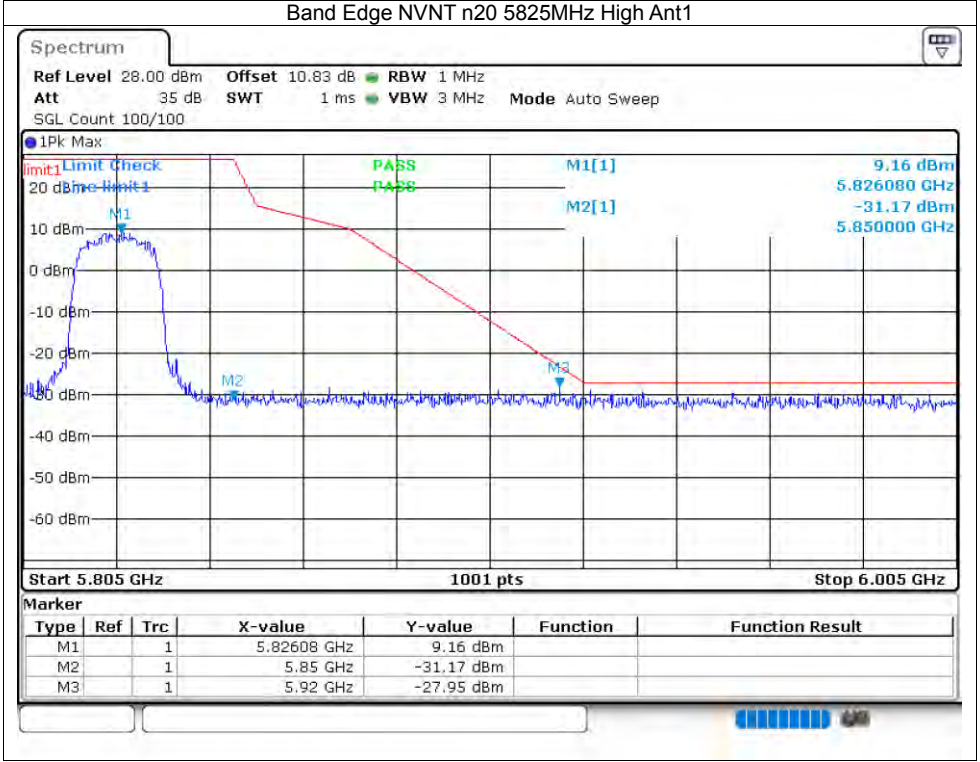
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.82788 GHz	9.67 dBm		
M2		1	5.85 GHz	-30.31 dBm		
M3		1	5.8702 GHz	-29.01 dBm		

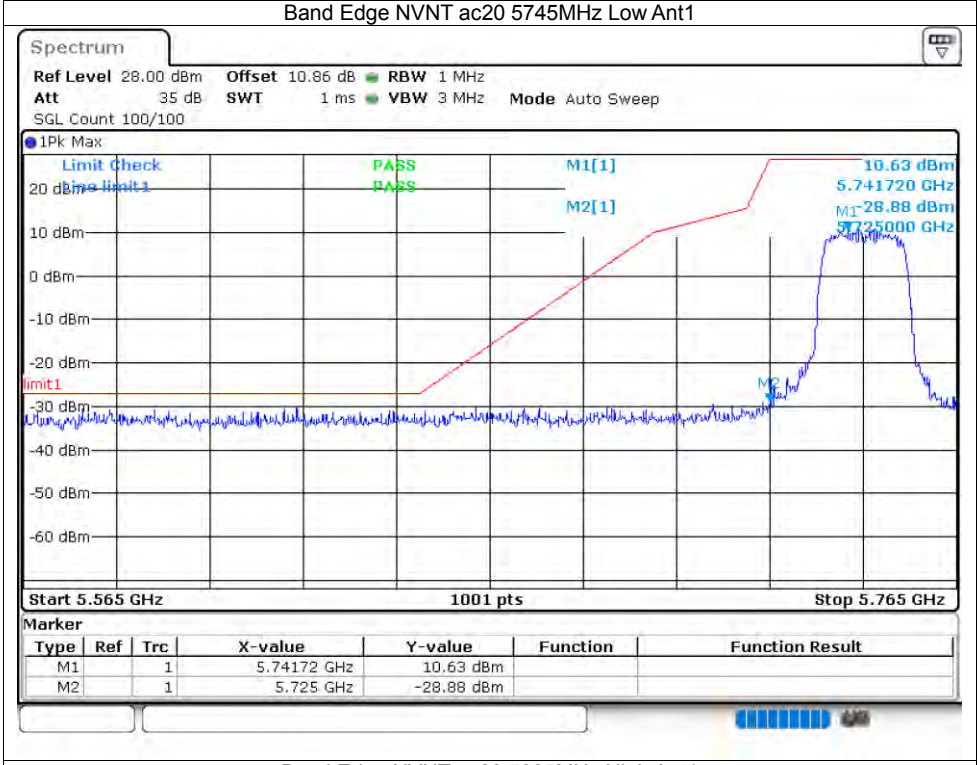
Band Edge NVNT n20 5745MHz Low Ant1



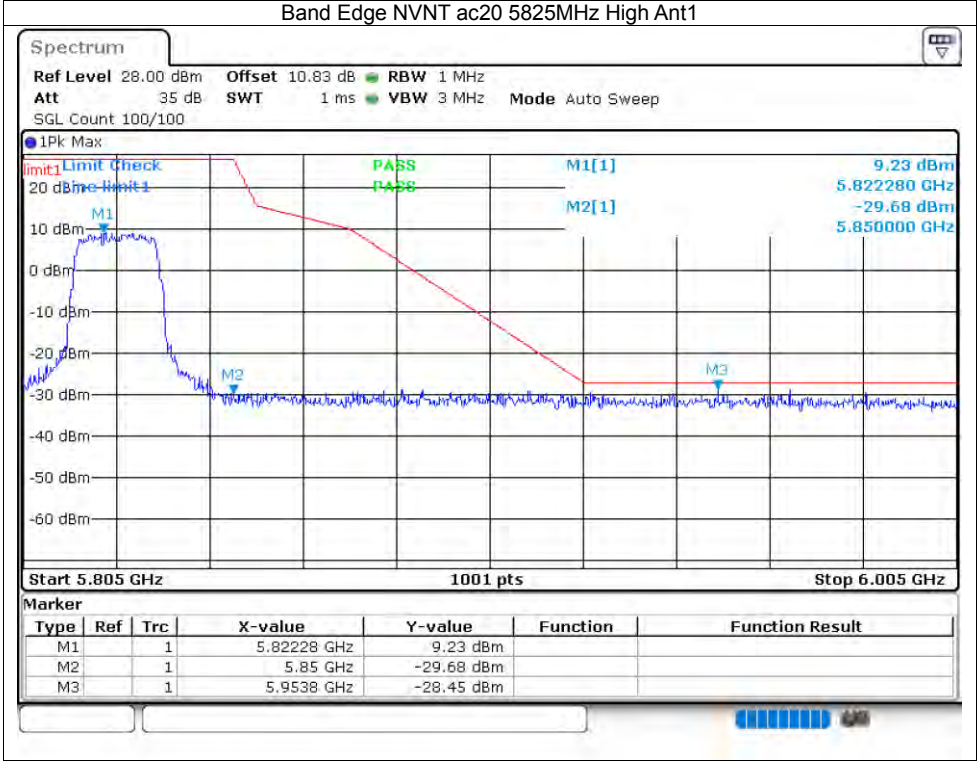
Band Edge NVNT n20 5825MHz High Ant1



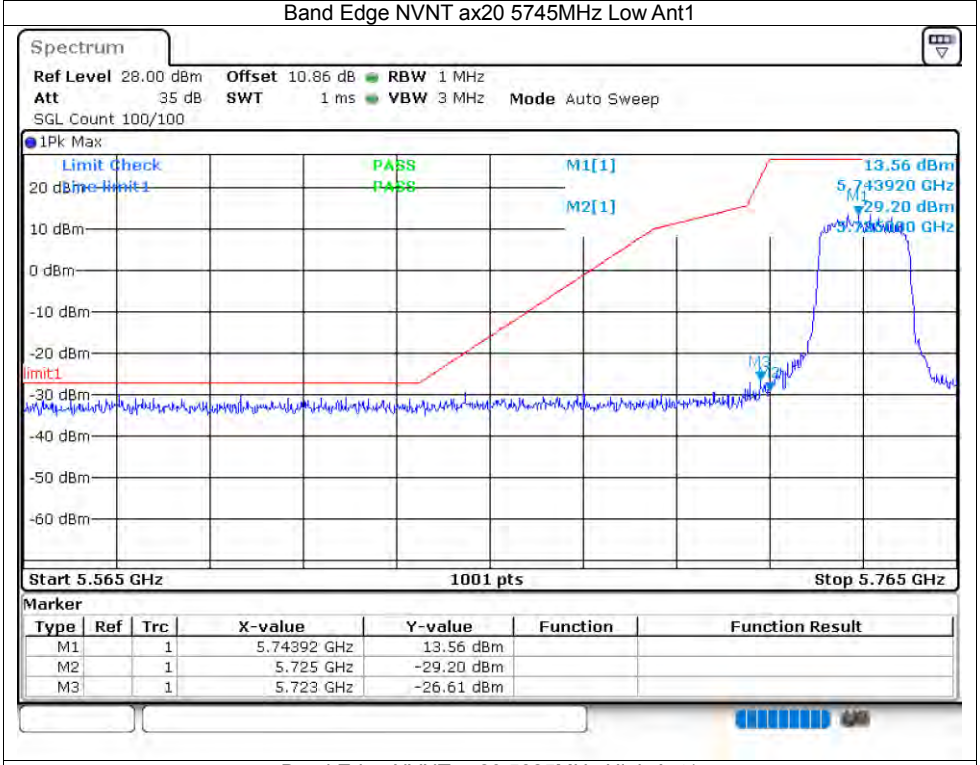
Band Edge NVNT ac20 5745MHz Low Ant1



Band Edge NVNT ac20 5825MHz High Ant1



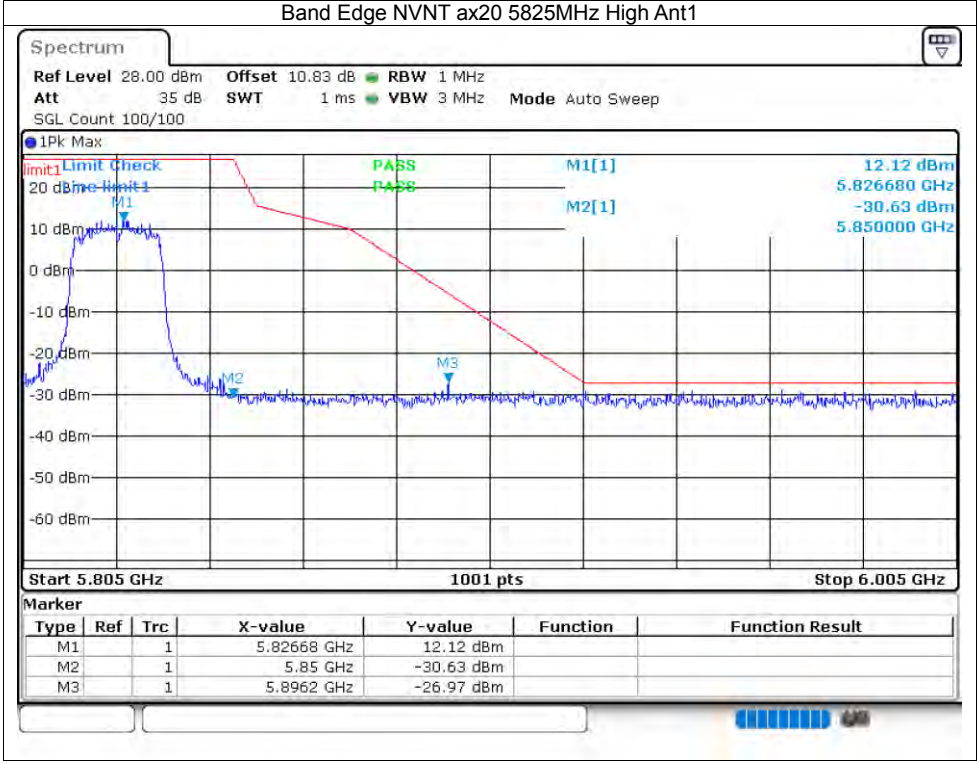
Band Edge NVNT ax20 5745MHz Low Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.74392 GHz	13.56 dBm		
M2		1	5.725 GHz	-29.20 dBm		
M3		1	5.723 GHz	-26.61 dBm		

Band Edge NVNT ax20 5825MHz High Ant1



Marker

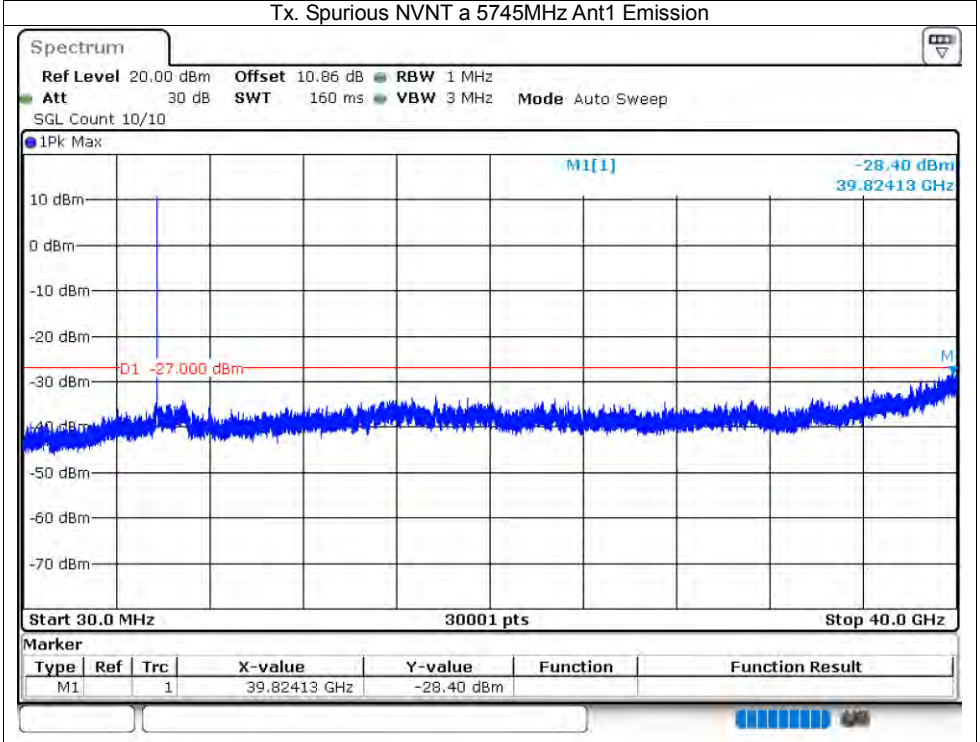
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.82668 GHz	12.12 dBm		
M2		1	5.85 GHz	-30.63 dBm		
M3		1	5.8962 GHz	-26.97 dBm		

10.2.7 CONDUCTED RF SPURIOUS EMISSION

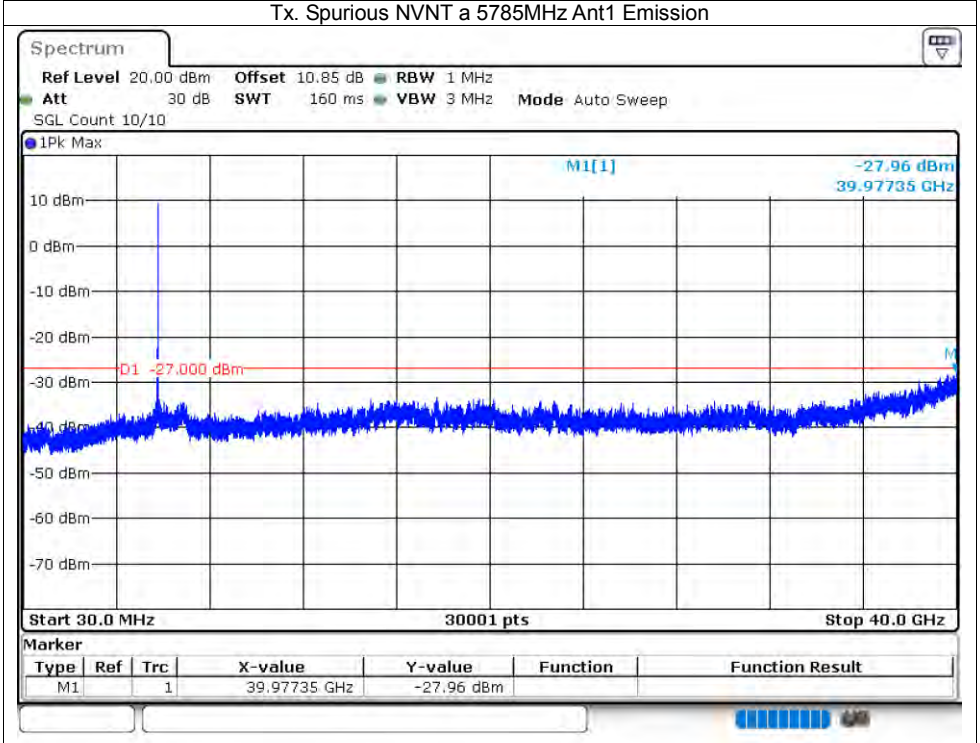
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5745	Ant1	-28.4	-27	Pass
NVNT	a	5785	Ant1	-27.95	-27	Pass
NVNT	a	5825	Ant1	-27.75	-27	Pass
NVNT	n20	5745	Ant1	-27.28	-27	Pass
NVNT	n20	5785	Ant1	-28.18	-27	Pass
NVNT	n20	5825	Ant1	-28.2	-27	Pass
NVNT	ac20	5745	Ant1	-27.37	-27	Pass
NVNT	ac20	5785	Ant1	-27.88	-27	Pass
NVNT	ac20	5825	Ant1	-28.53	-27	Pass
NVNT	ax20	5745	Ant1	-36.37	-27	Pass
NVNT	ax20	5785	Ant1	-28.31	-27	Pass
NVNT	ax20	5825	Ant1	-37.53	-27	Pass

Test Graphs

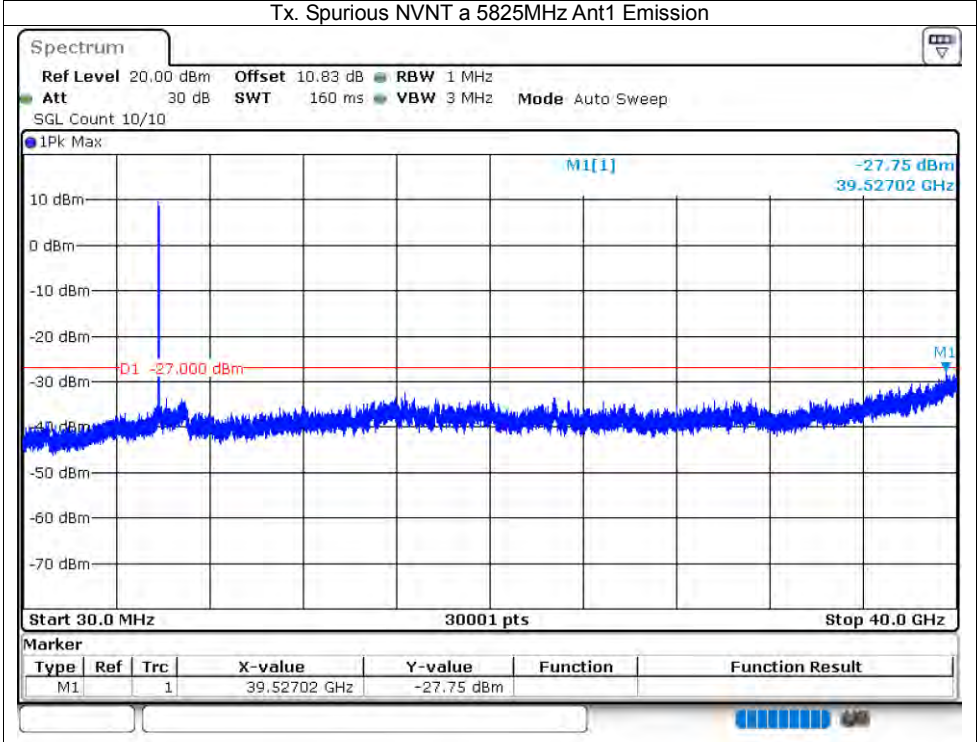
Tx. Spurious NVNT a 5745MHz Ant1 Emission



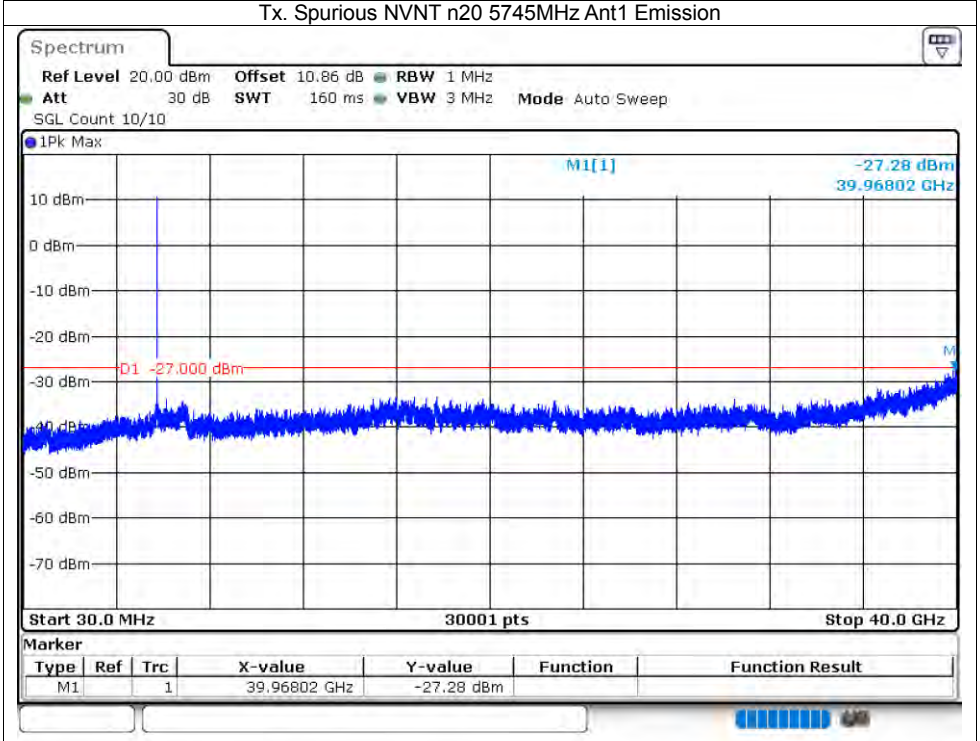
Tx. Spurious NVNT a 5785MHz Ant1 Emission



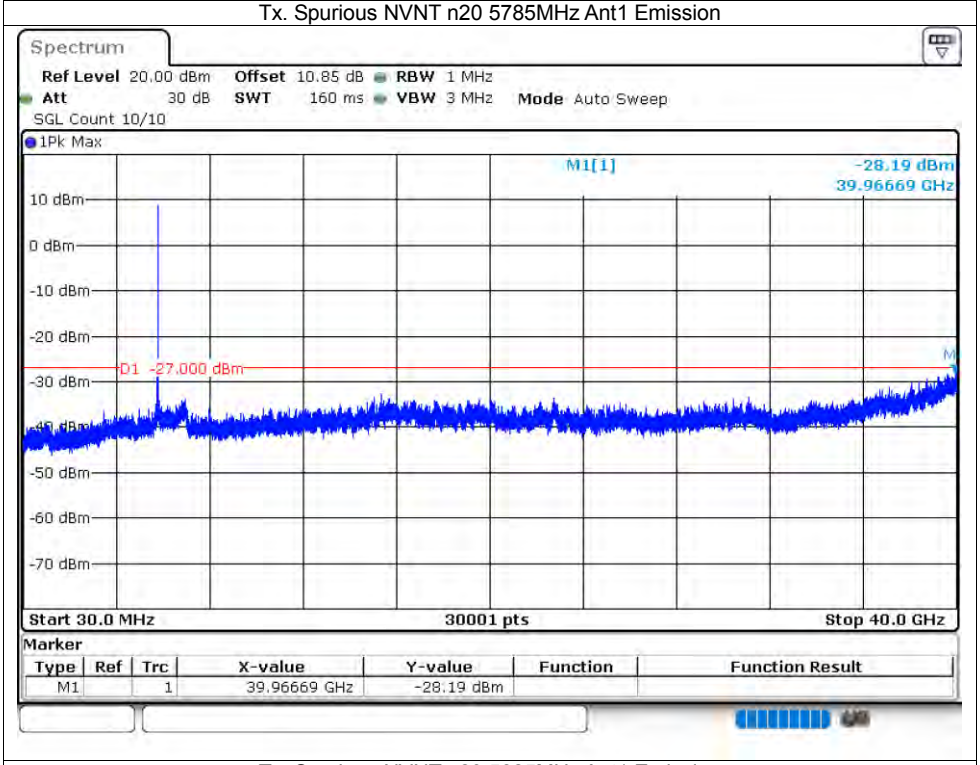
Tx. Spurious NVNT a 5825MHz Ant1 Emission



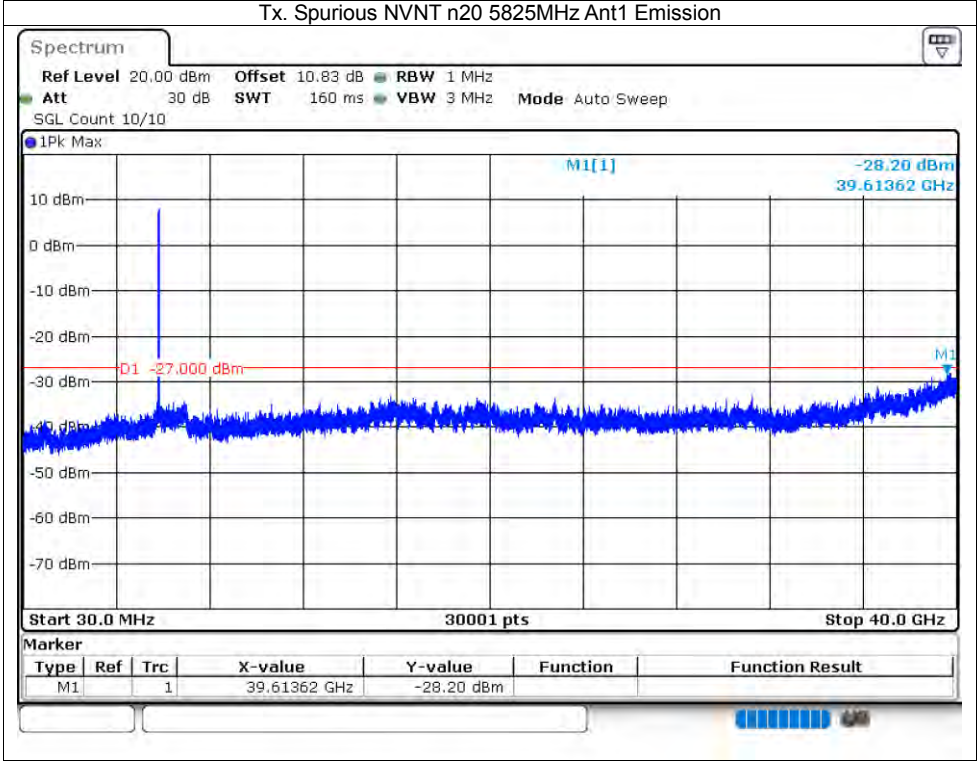
Tx. Spurious NVNT n20 5745MHz Ant1 Emission



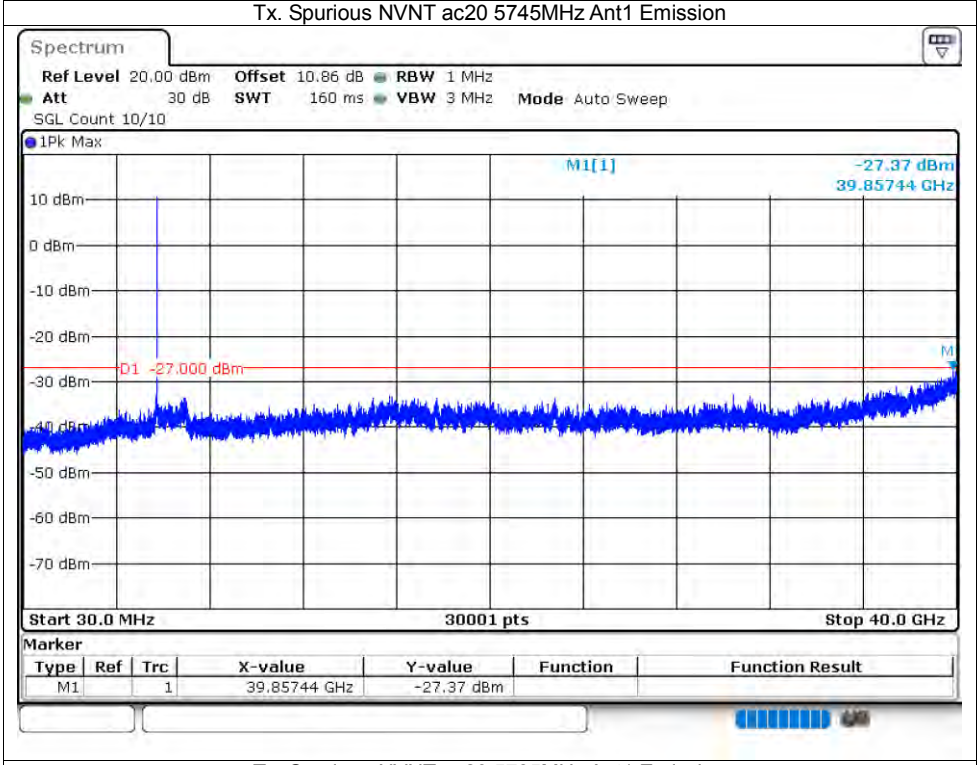
Tx. Spurious NVNT n20 5785MHz Ant1 Emission



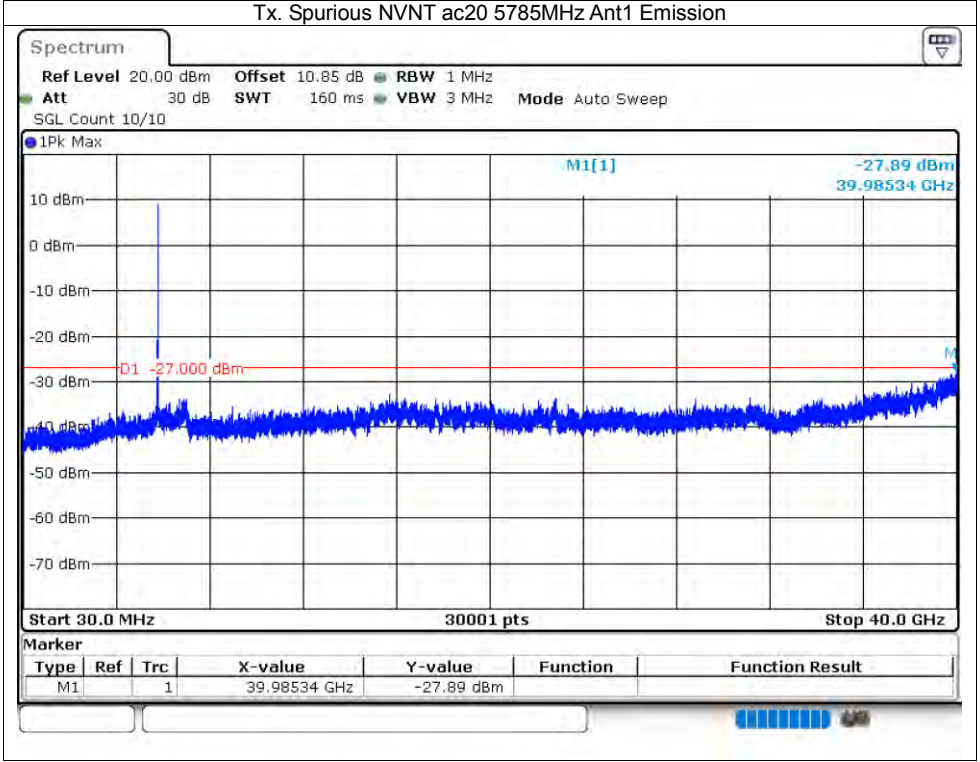
Tx. Spurious NVNT n20 5825MHz Ant1 Emission



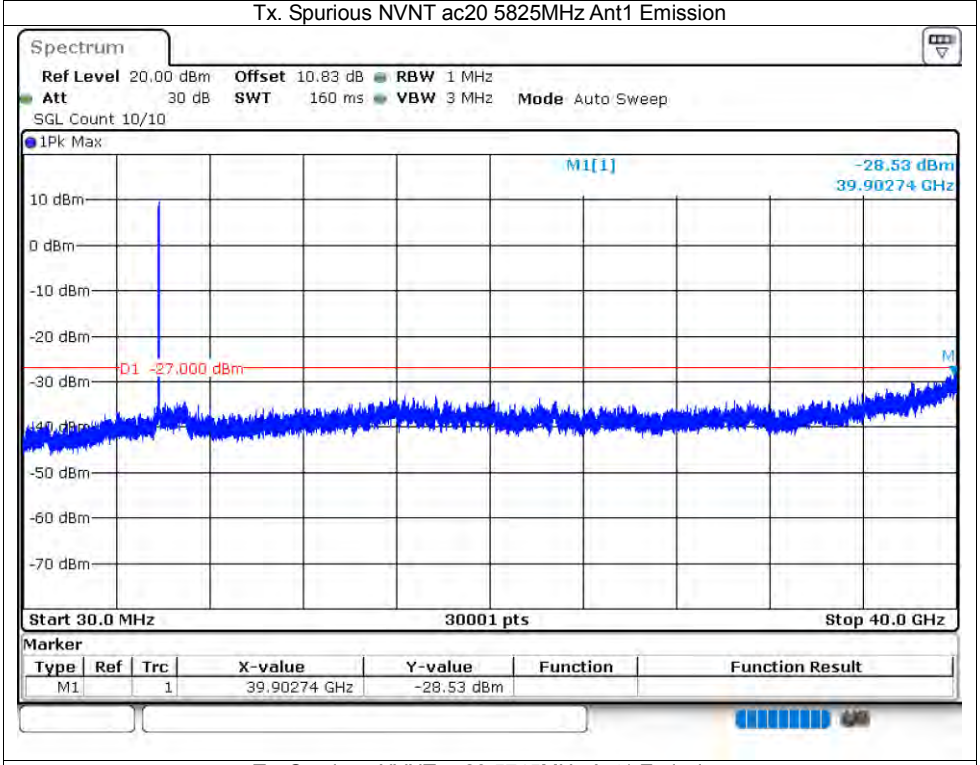
Tx. Spurious NVNT ac20 5745MHz Ant1 Emission



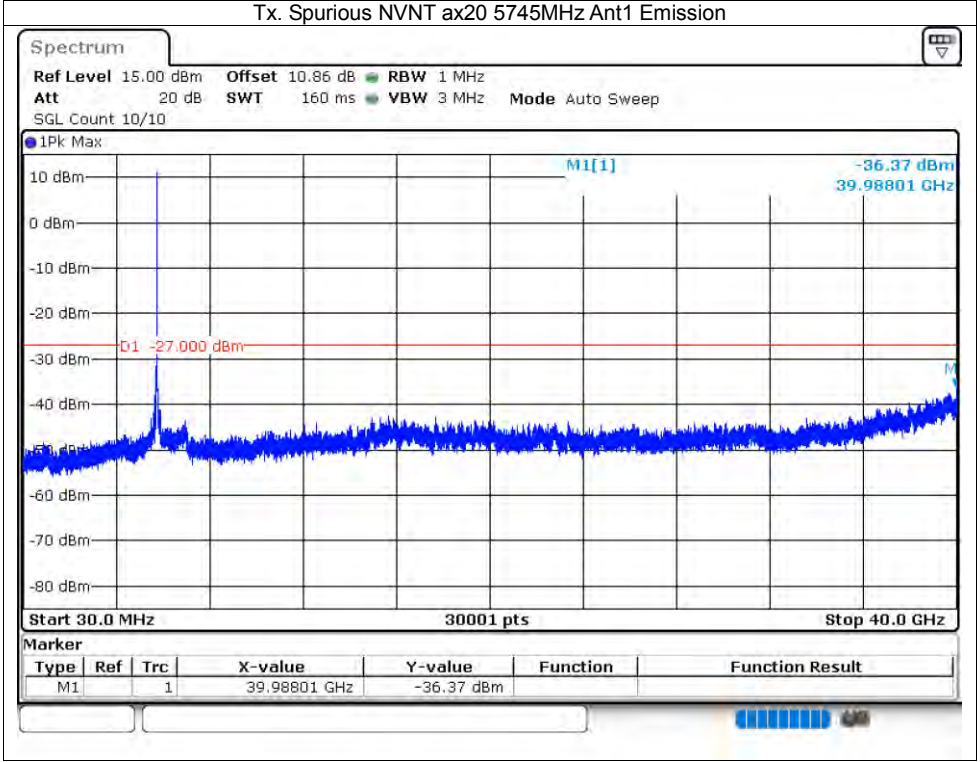
Tx. Spurious NVNT ac20 5785MHz Ant1 Emission



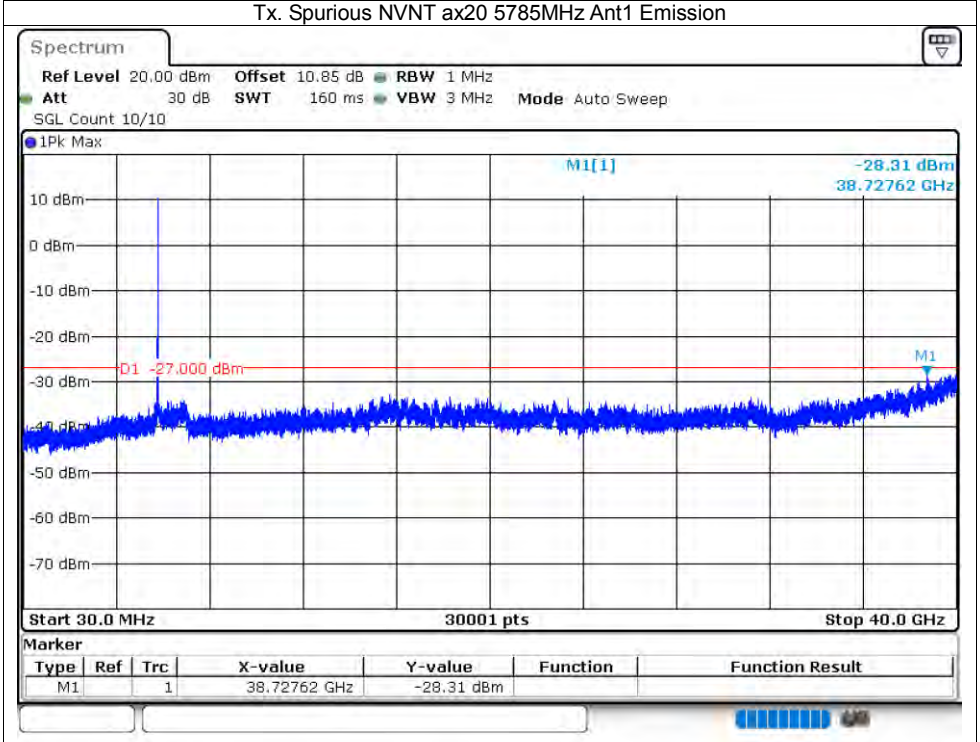
Tx. Spurious NVNT ac20 5825MHz Ant1 Emission



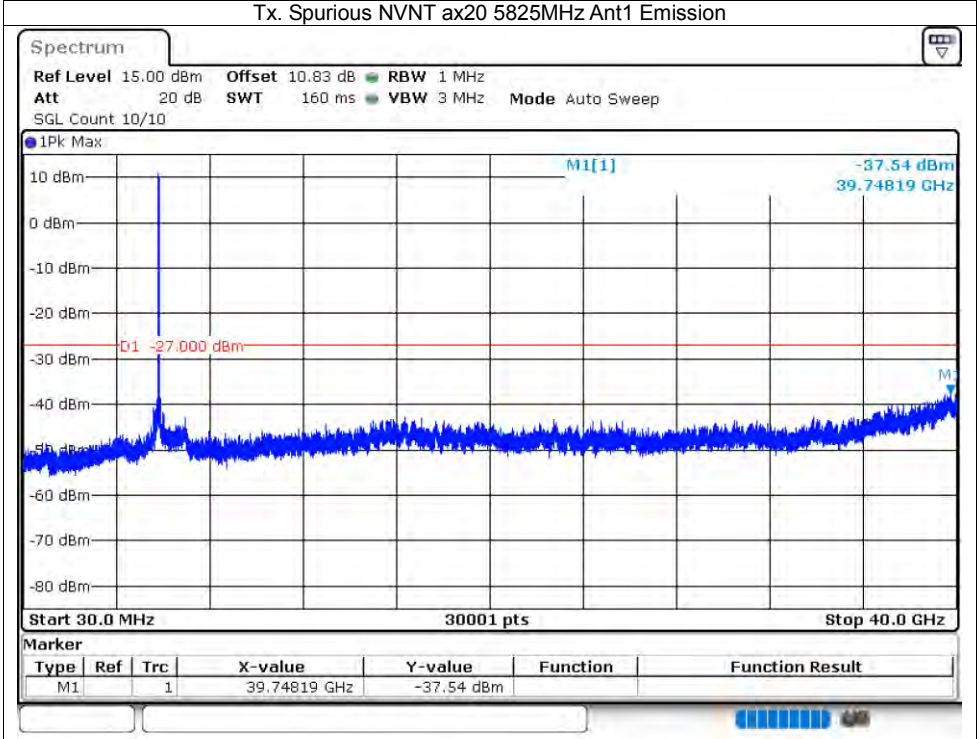
Tx. Spurious NVNT ax20 5745MHz Ant1 Emission



Tx. Spurious NVNT ax20 5785MHz Ant1 Emission



Tx. Spurious NVNT ax20 5825MHz Ant1 Emission



END OF REPORT