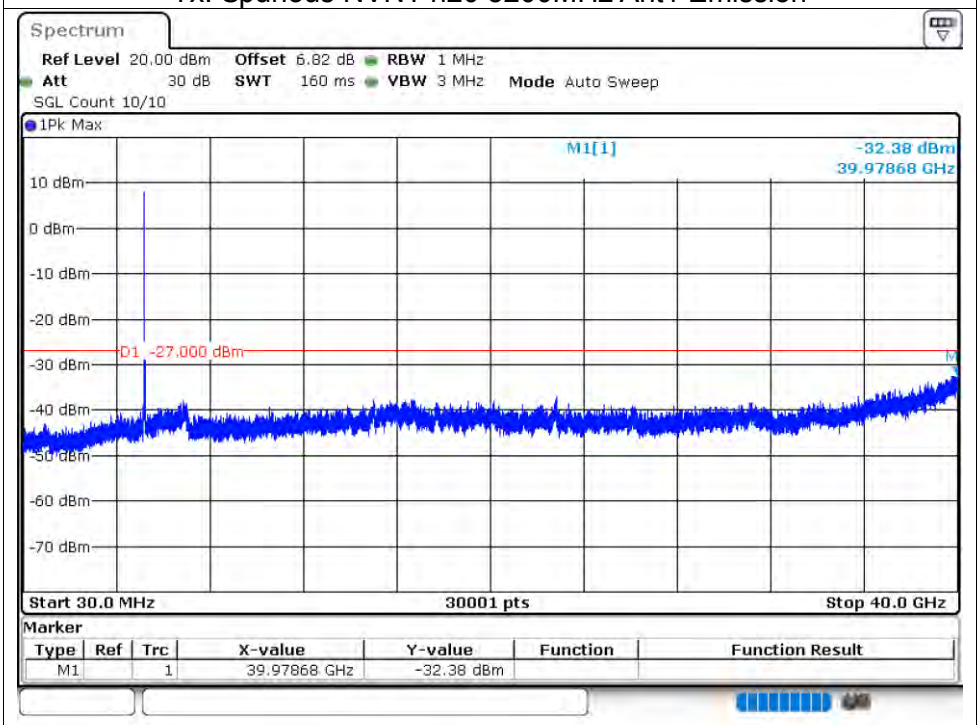
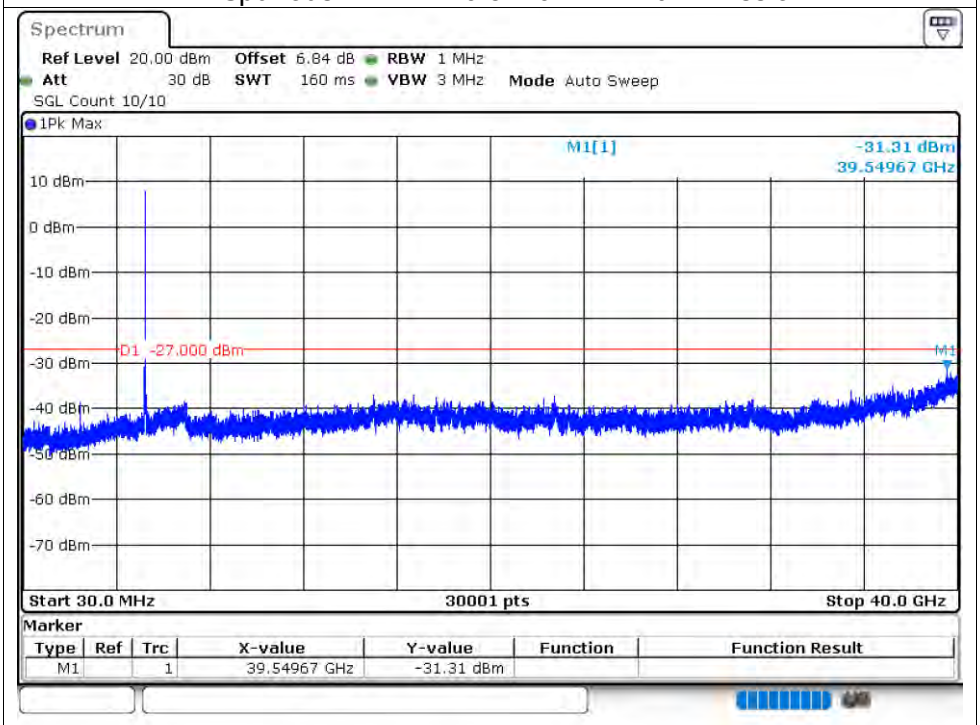
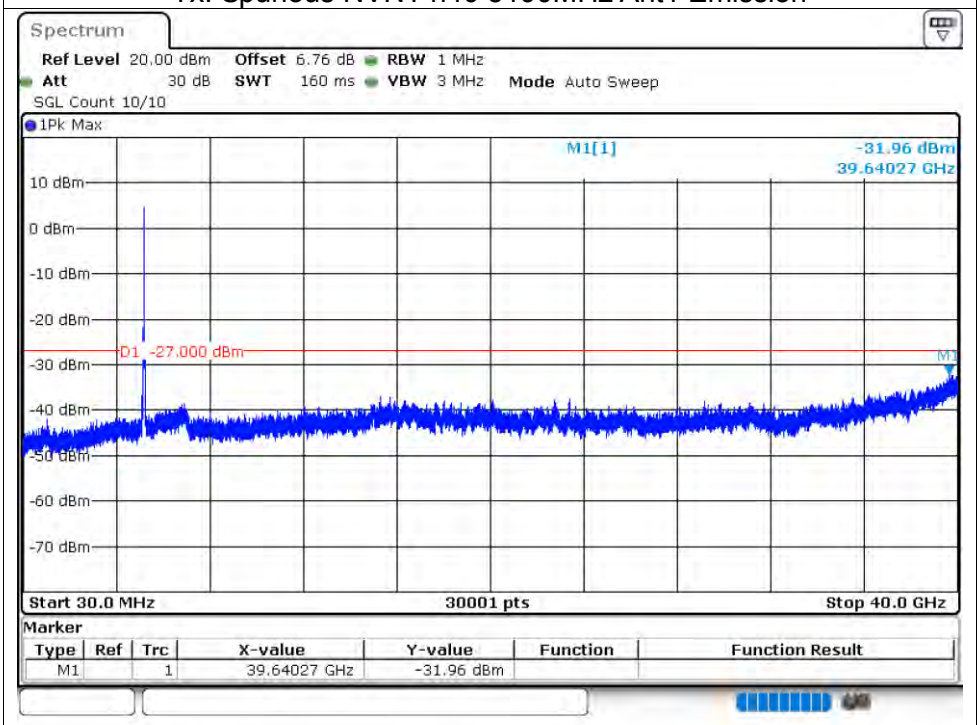
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



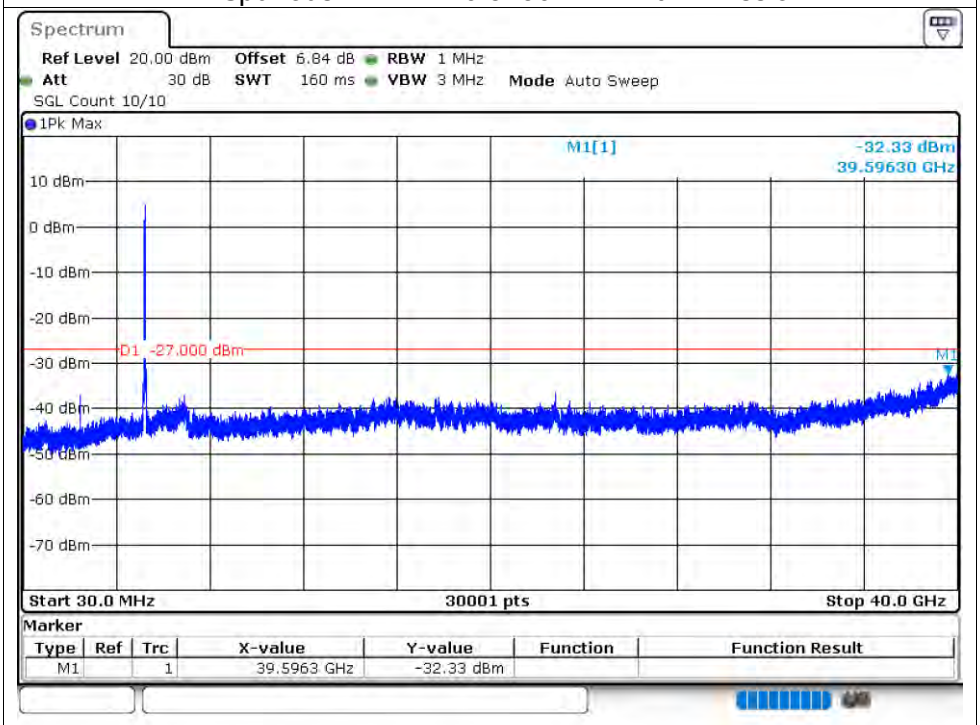
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



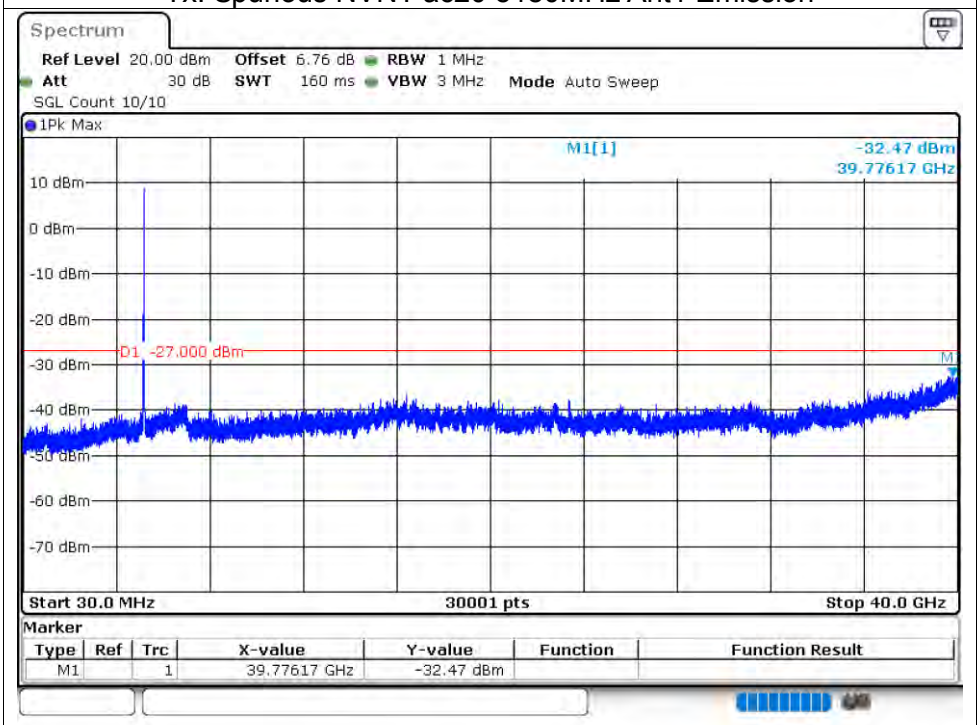
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



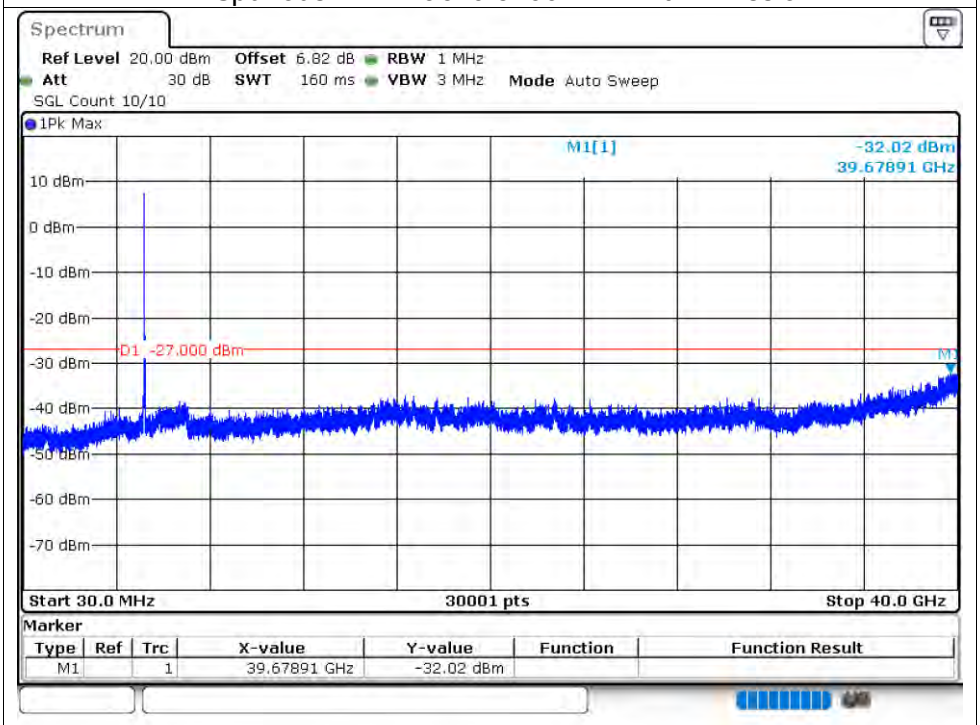
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



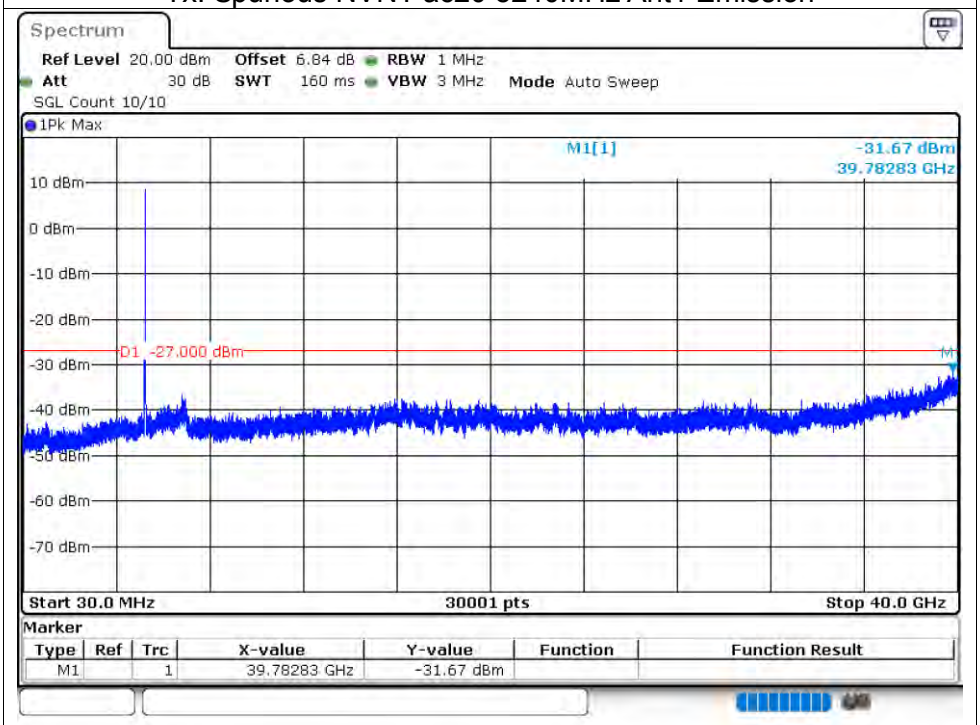
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



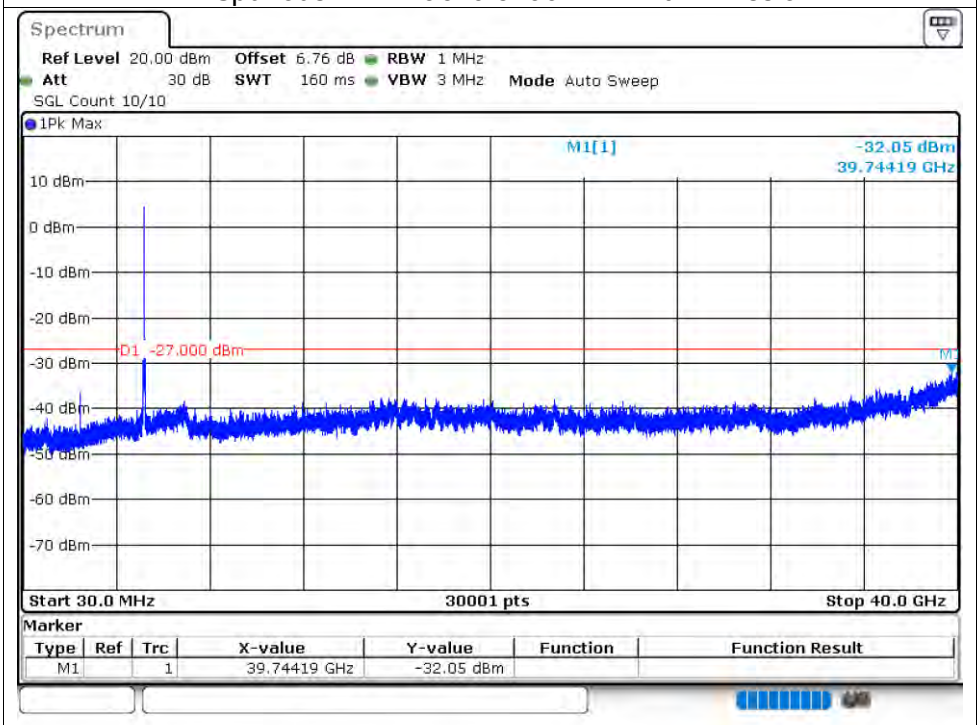
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission



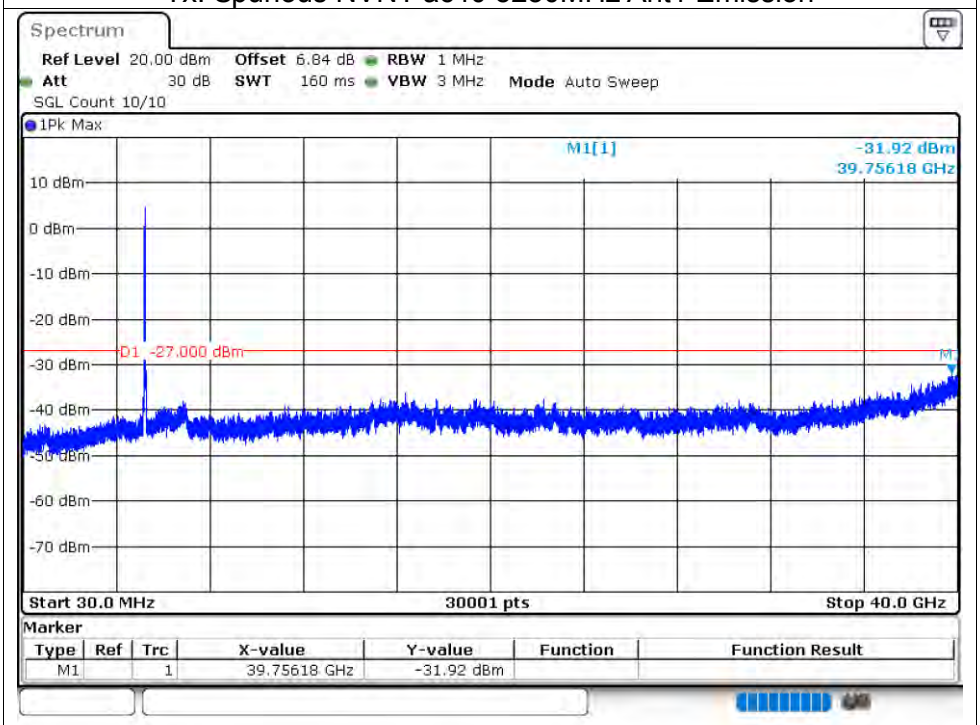
Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



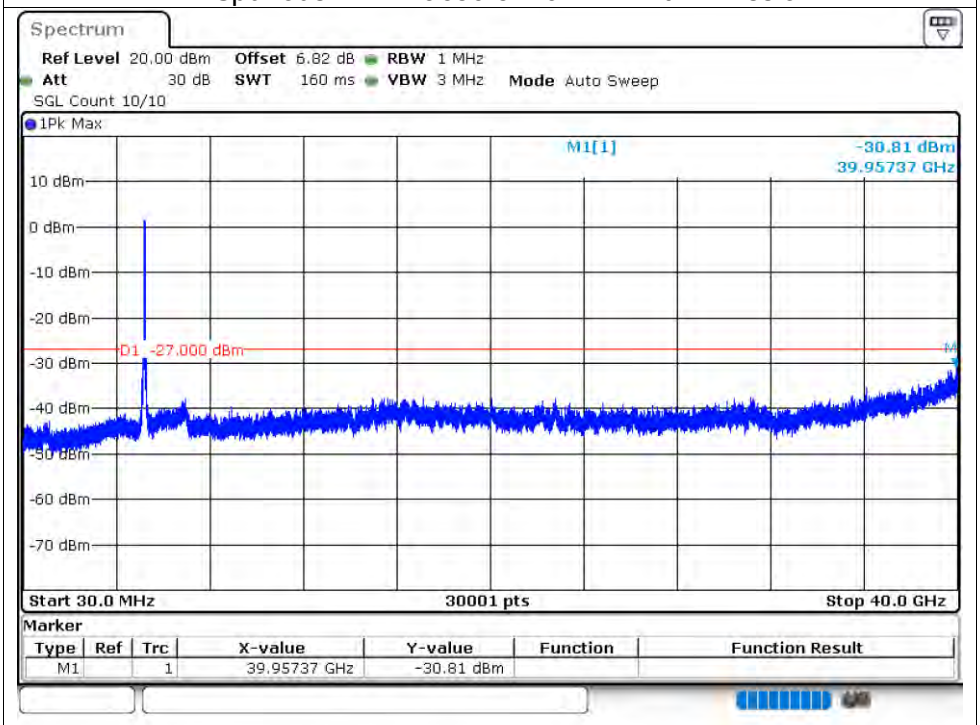
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



Tx. Spurious NVNT ac80 5210MHz Ant1 Emission

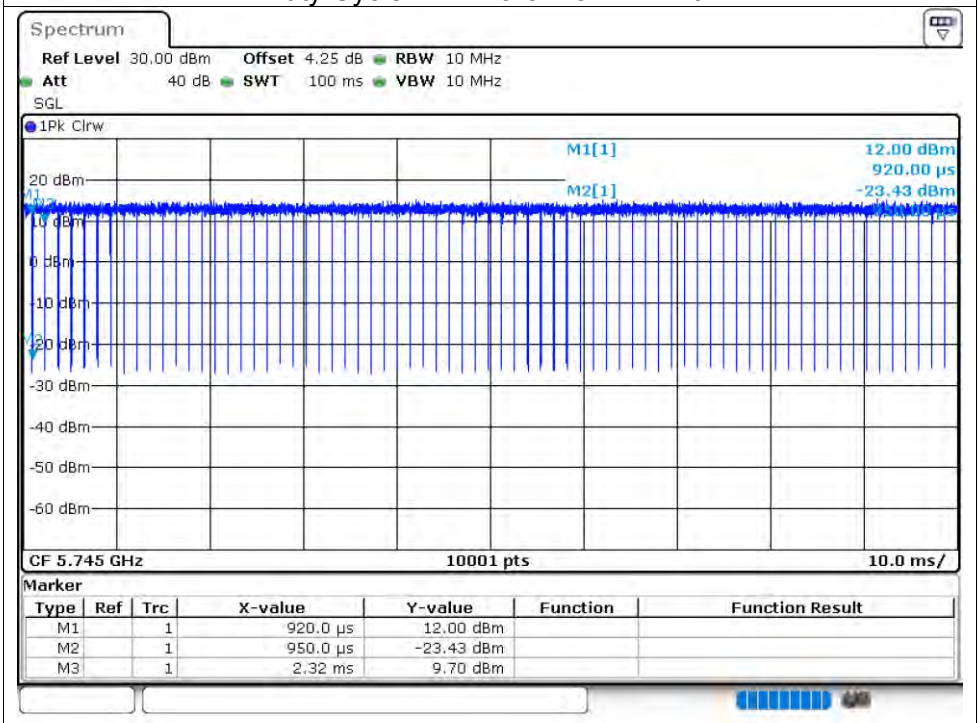


5.8G WIFI

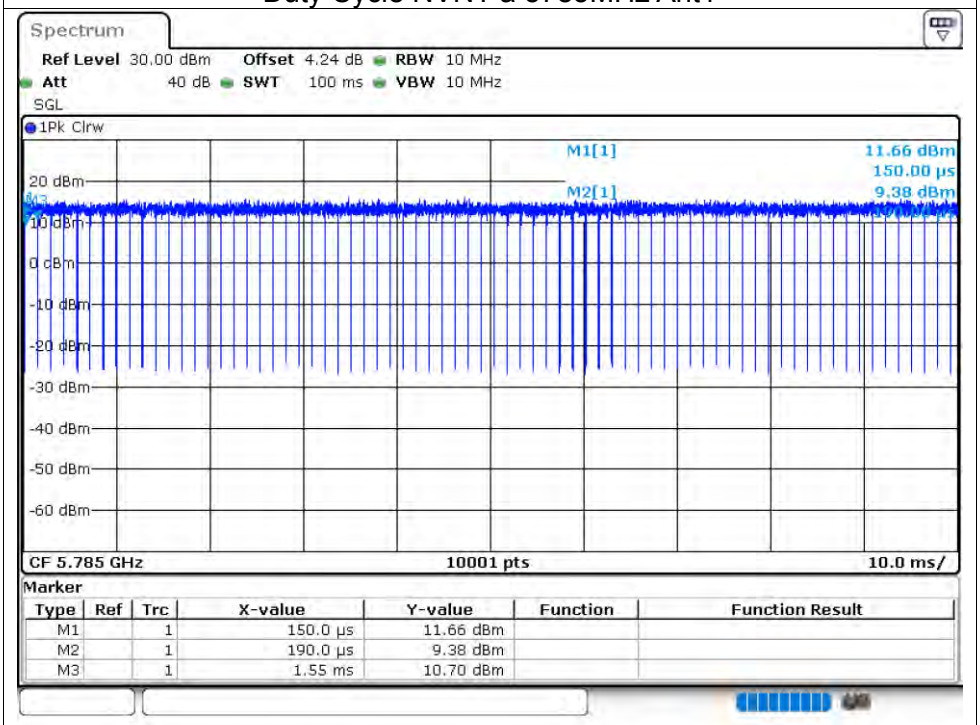
5.1 DUTY CYCLE

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	98.7	0.06	0.73
NVNT	a	5785	Ant1	98.12	0.08	0.74
NVNT	a	5825	Ant1	99.01	0.04	0.73
NVNT	n20	5745	Ant1	97.99	0.09	0.79
NVNT	n20	5785	Ant1	98.06	0.09	0.78
NVNT	n20	5825	Ant1	98.96	0.05	0.78
NVNT	n40	5755	Ant1	97.38	0.12	1.59
NVNT	n40	5795	Ant1	97.76	0.1	1.59
NVNT	ac20	5745	Ant1	98.55	0.06	0.78
NVNT	ac20	5785	Ant1	98.03	0.09	0.78
NVNT	ac20	5825	Ant1	98.69	0.06	0.78
NVNT	ac40	5755	Ant1	97.55	0.11	0.76
NVNT	ac40	5795	Ant1	97.51	0.11	1.54
NVNT	ac80	5775	Ant1	92.94	0.32	3.12

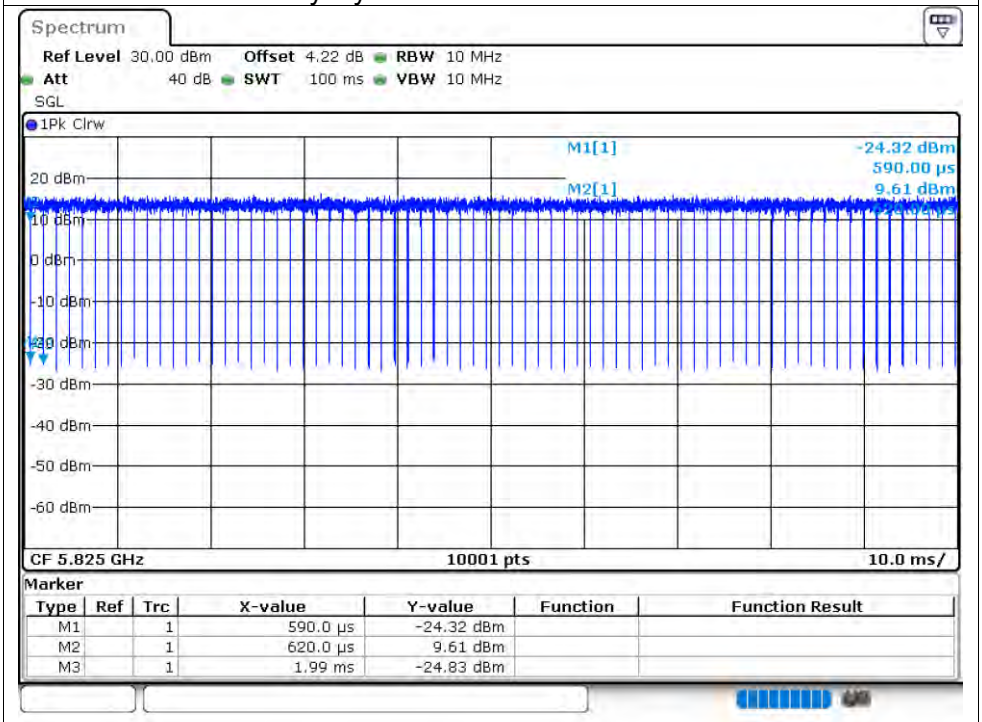
Test Graphs
Duty Cycle NVNT a 5745MHz Ant1



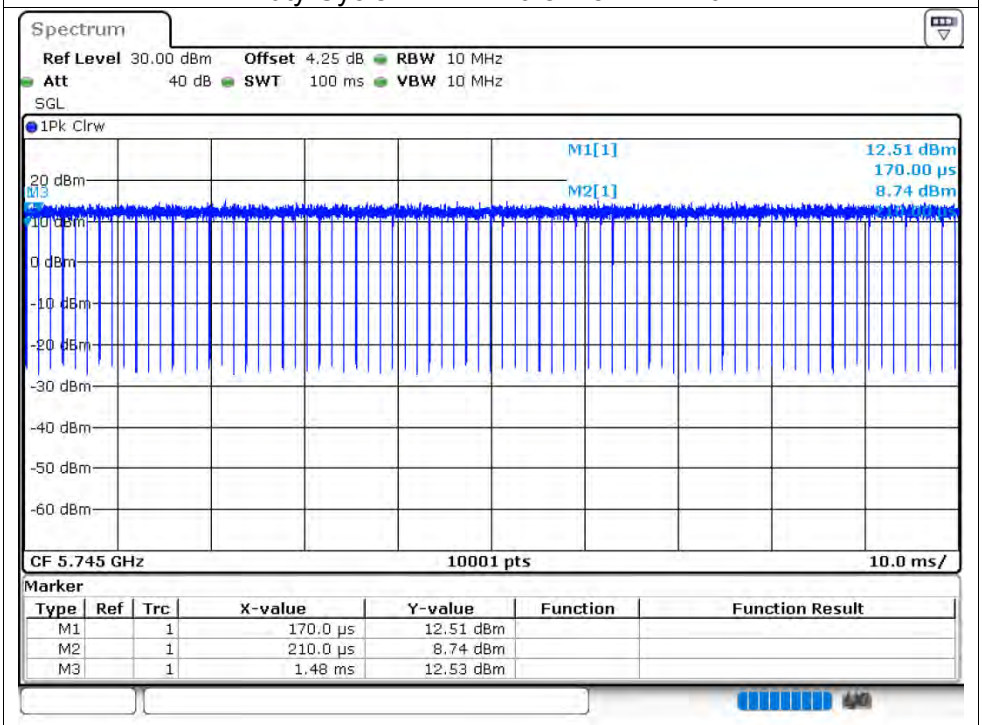
Duty Cycle NVNT a 5785MHz Ant1



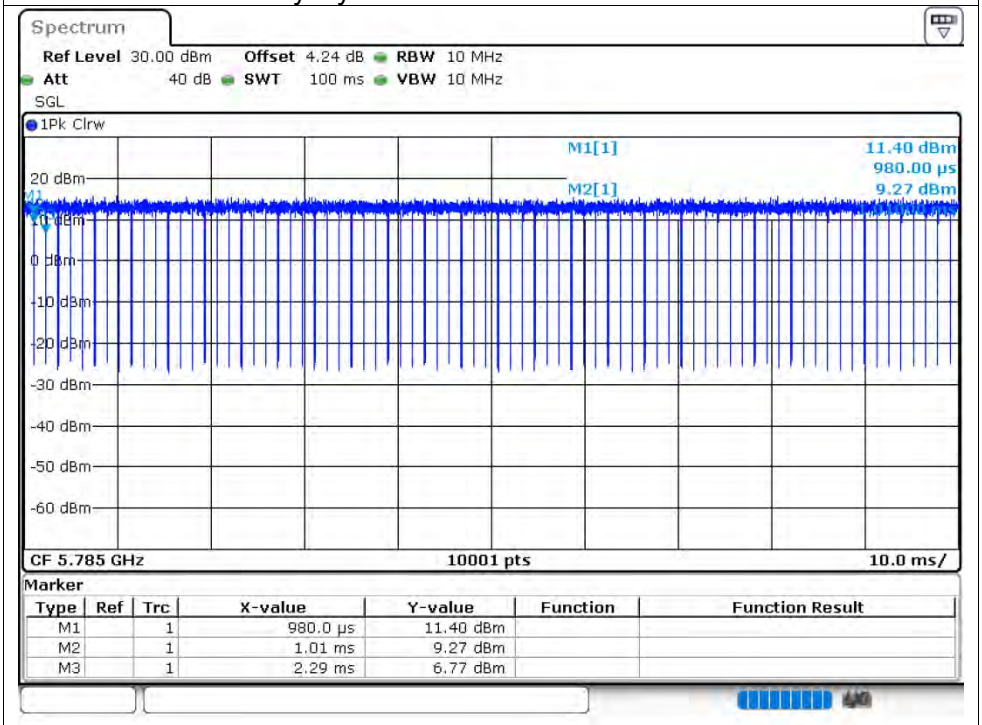
Duty Cycle NVNT a 5825MHz Ant1



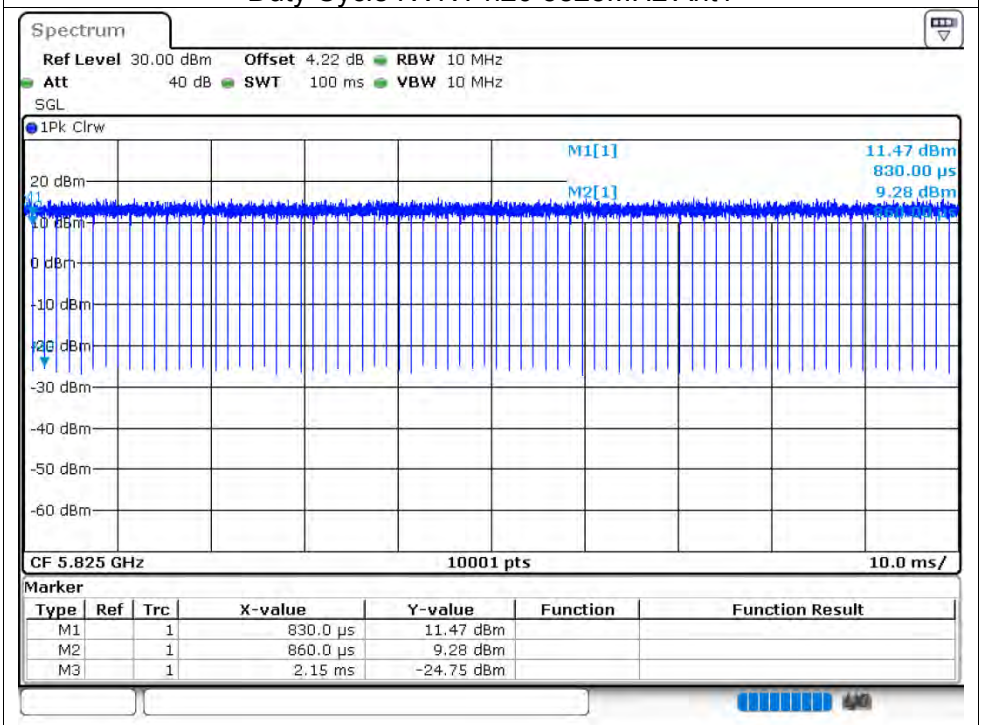
Duty Cycle NVNT n20 5745MHz Ant1



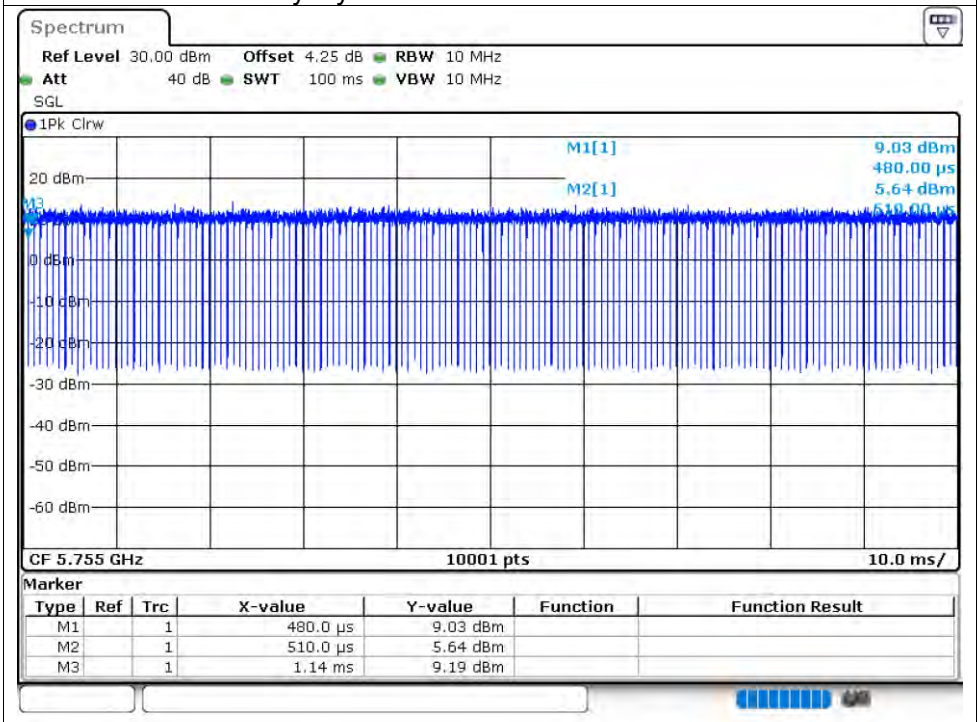
Duty Cycle NVNT n20 5785MHz Ant1



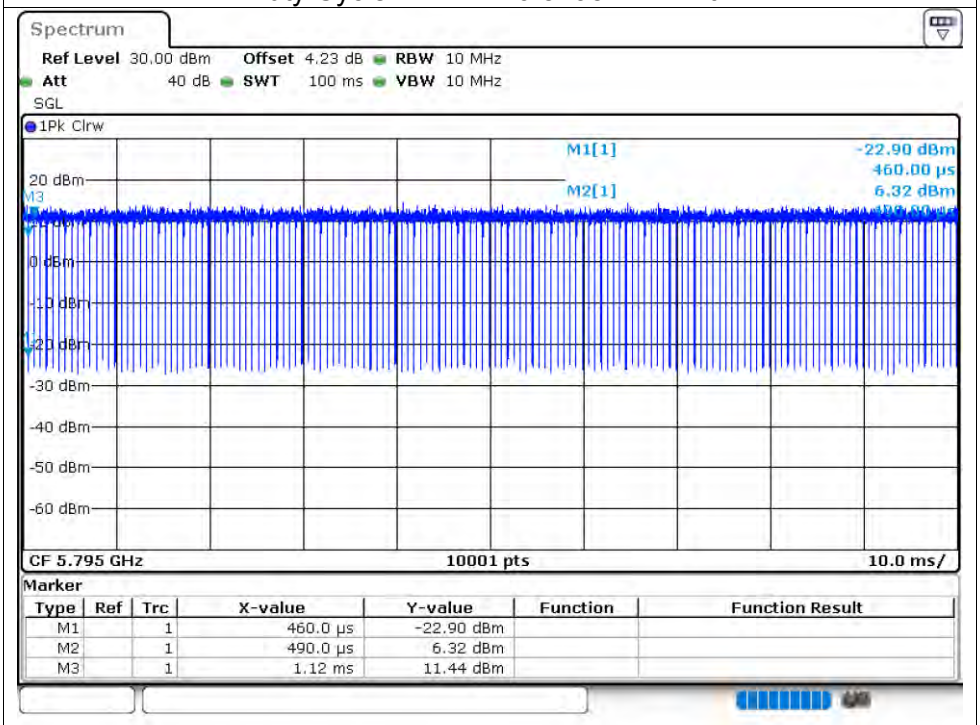
Duty Cycle NVNT n20 5825MHz Ant1



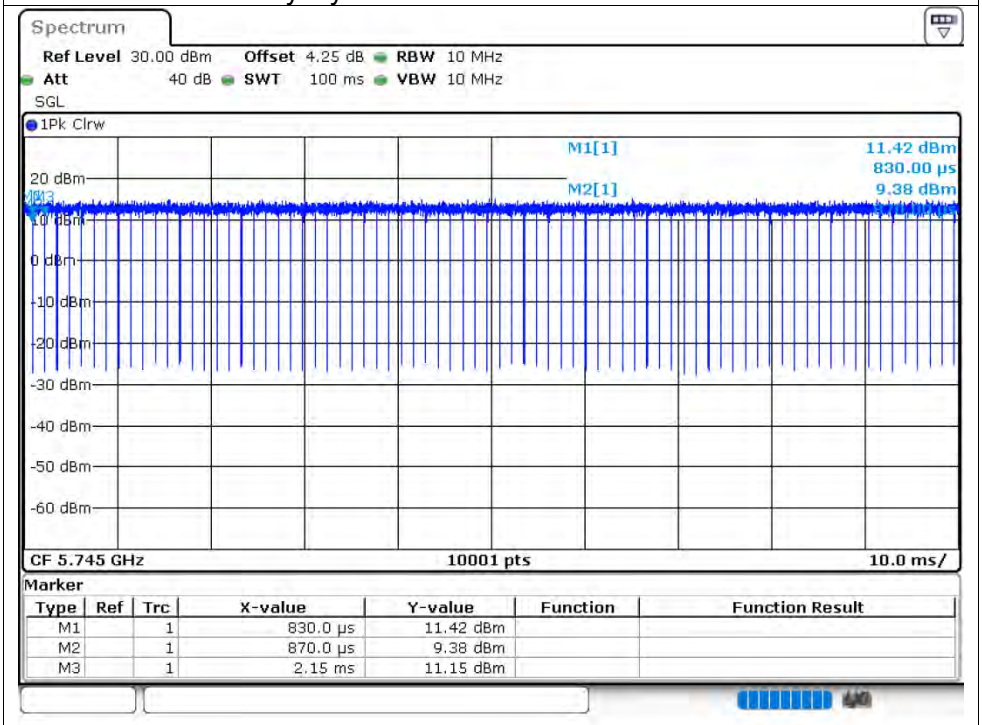
Duty Cycle NVNT n40 5755MHz Ant1



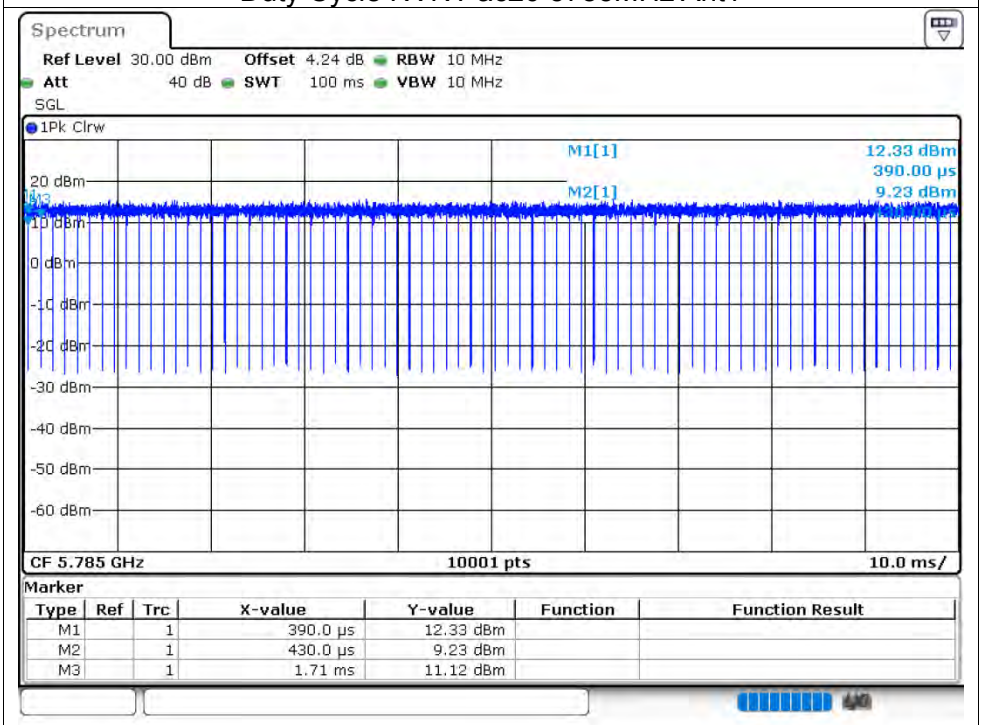
Duty Cycle NVNT n40 5795MHz Ant1



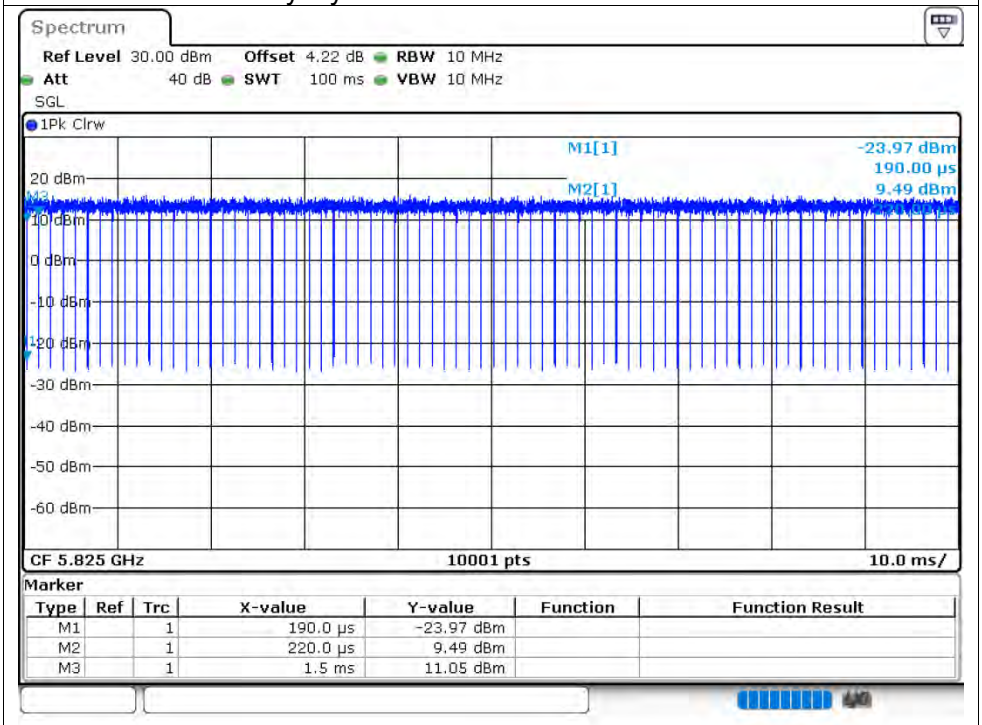
Duty Cycle NVNT ac20 5745MHz Ant1



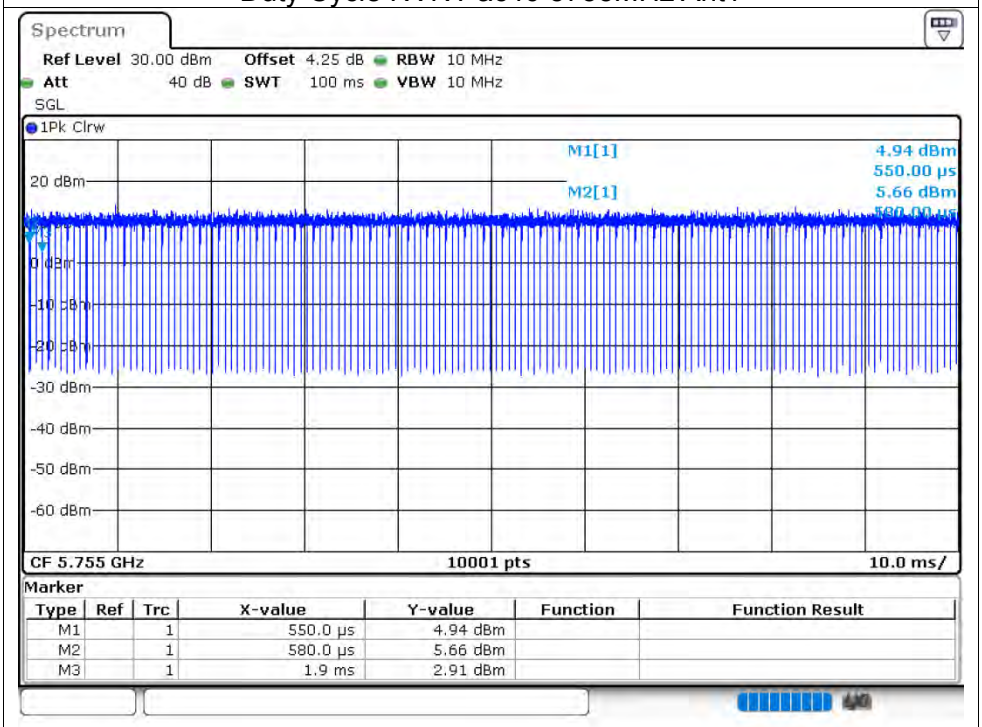
Duty Cycle NVNT ac20 5785MHz Ant1



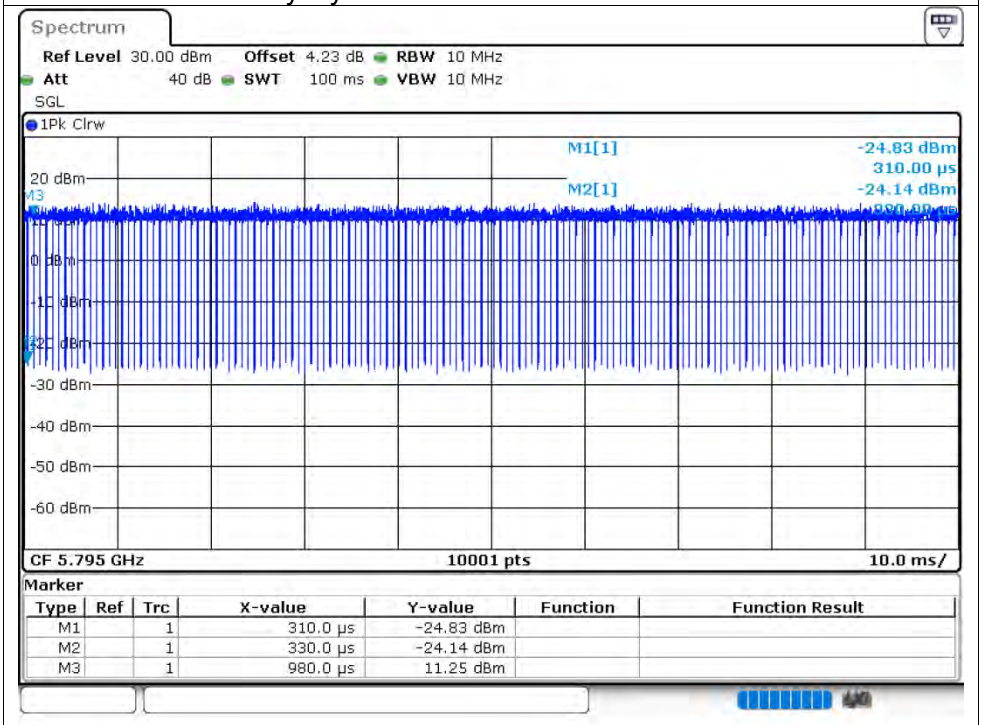
Duty Cycle NVNT ac20 5825MHz Ant1



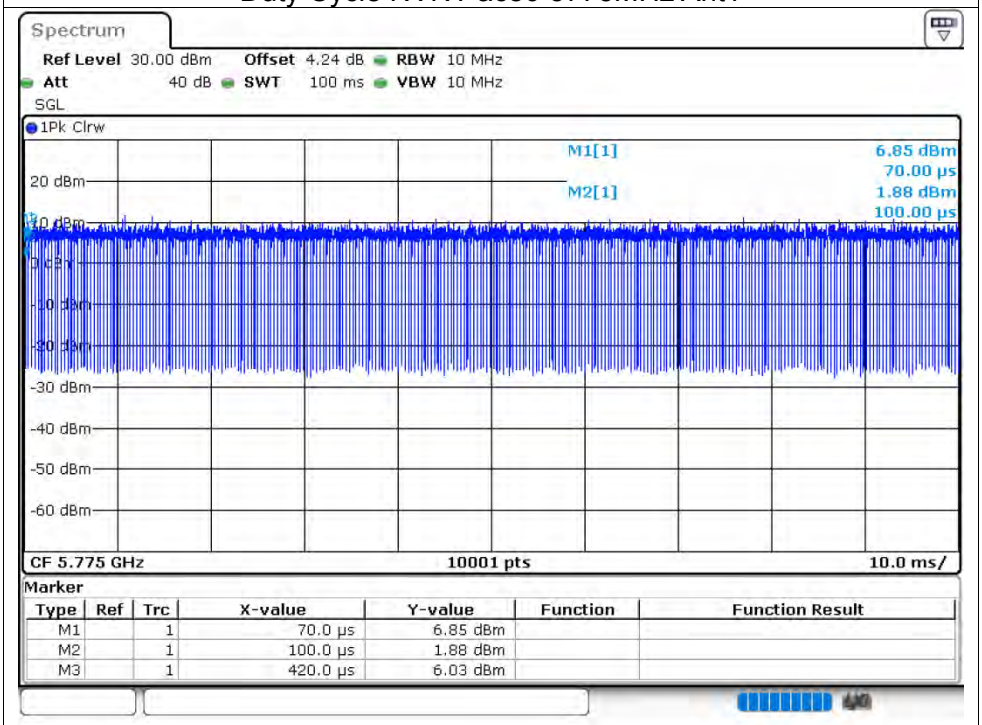
Duty Cycle NVNT ac40 5755MHz Ant1



Duty Cycle NVNT ac40 5795MHz Ant1



Duty Cycle NVNT ac80 5775MHz Ant1



5.2 MAXIMUM CONDUCTED OUTPUT POWER

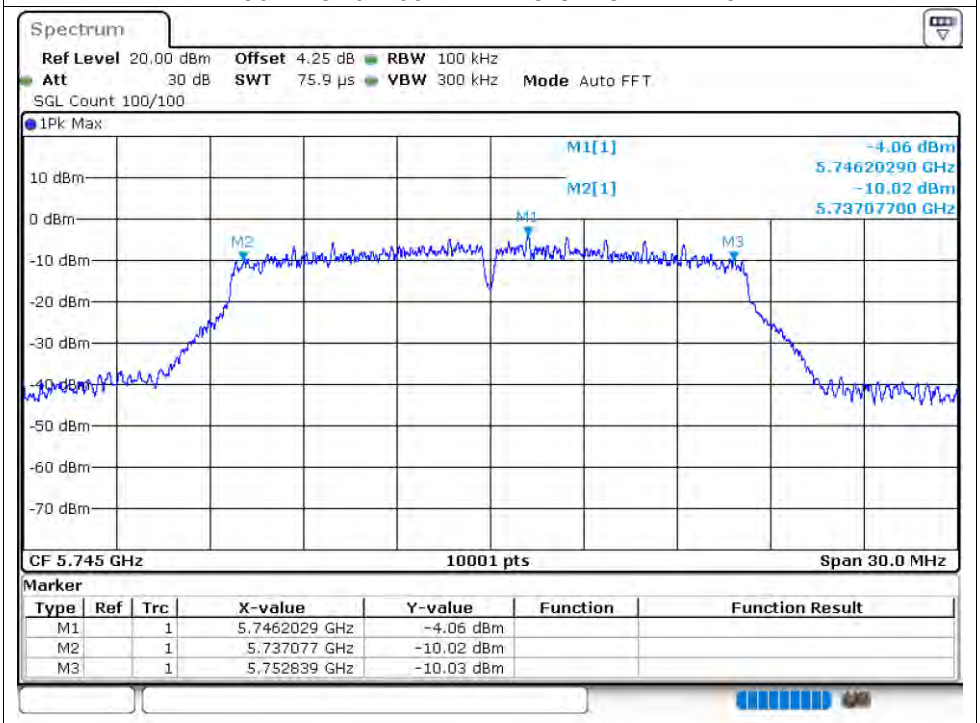
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	10.1	30	Pass
NVNT	a	5785	Ant1	9.56	30	Pass
NVNT	a	5825	Ant1	9.14	30	Pass
NVNT	n20	5745	Ant1	9.56	30	Pass
NVNT	n20	5785	Ant1	9.44	30	Pass
NVNT	n20	5825	Ant1	9.14	30	Pass
NVNT	n40	5755	Ant1	9.52	30	Pass
NVNT	n40	5795	Ant1	9.44	30	Pass
NVNT	ac20	5745	Ant1	9.91	30	Pass
NVNT	ac20	5785	Ant1	9.43	30	Pass
NVNT	ac20	5825	Ant1	9.03	30	Pass
NVNT	ac40	5755	Ant1	9.45	30	Pass
NVNT	ac40	5795	Ant1	9.39	30	Pass
NVNT	ac80	5775	Ant1	9.38	30	Pass

5.3 -6DB BANDWIDTH

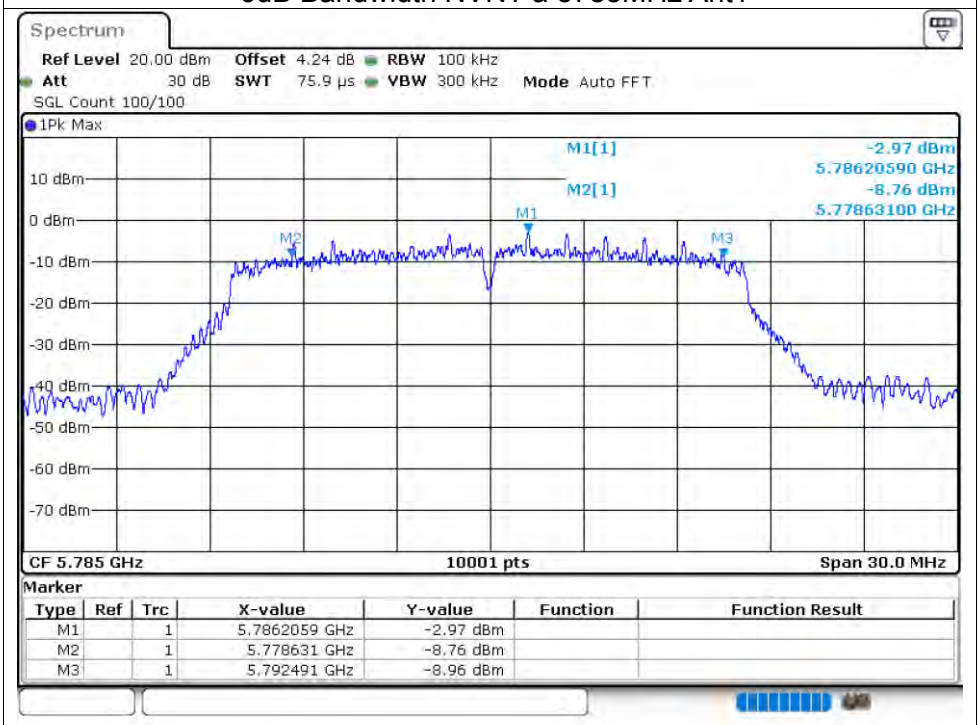
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.762	0.5	Pass
NVNT	a	5785	Ant1	13.86	0.5	Pass
NVNT	a	5825	Ant1	16.317	0.5	Pass
NVNT	n20	5745	Ant1	14.403	0.5	Pass
NVNT	n20	5785	Ant1	17.157	0.5	Pass
NVNT	n20	5825	Ant1	16.929	0.5	Pass
NVNT	n40	5755	Ant1	36.054	0.5	Pass
NVNT	n40	5795	Ant1	30.048	0.5	Pass
NVNT	ac20	5745	Ant1	13.521	0.5	Pass
NVNT	ac20	5785	Ant1	14.202	0.5	Pass
NVNT	ac20	5825	Ant1	13.548	0.5	Pass
NVNT	ac40	5755	Ant1	35.094	0.5	Pass
NVNT	ac40	5795	Ant1	32.532	0.5	Pass
NVNT	ac80	5775	Ant1	75.048	0.5	Pass

Test Graphs

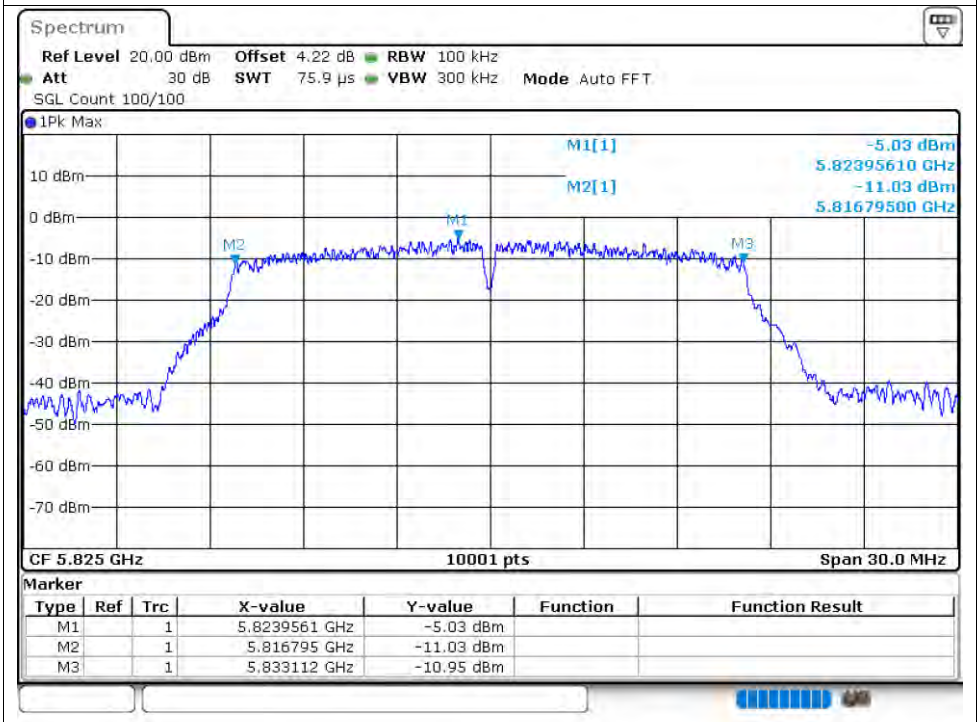
-6dB Bandwidth NVNT a 5745MHz Ant1



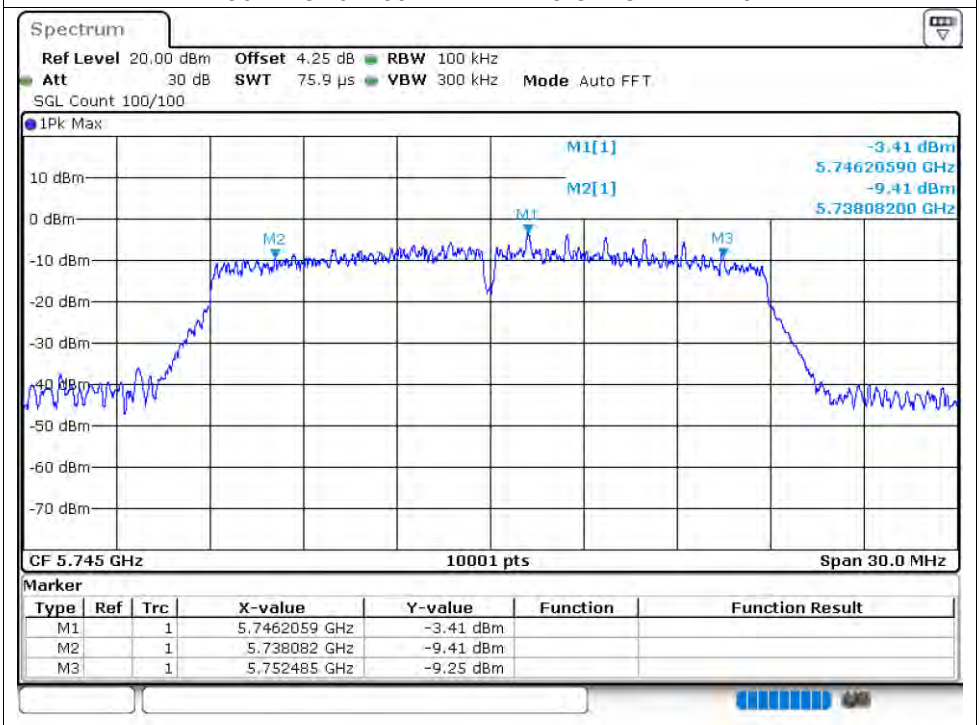
-6dB Bandwidth NVNT a 5785MHz Ant1



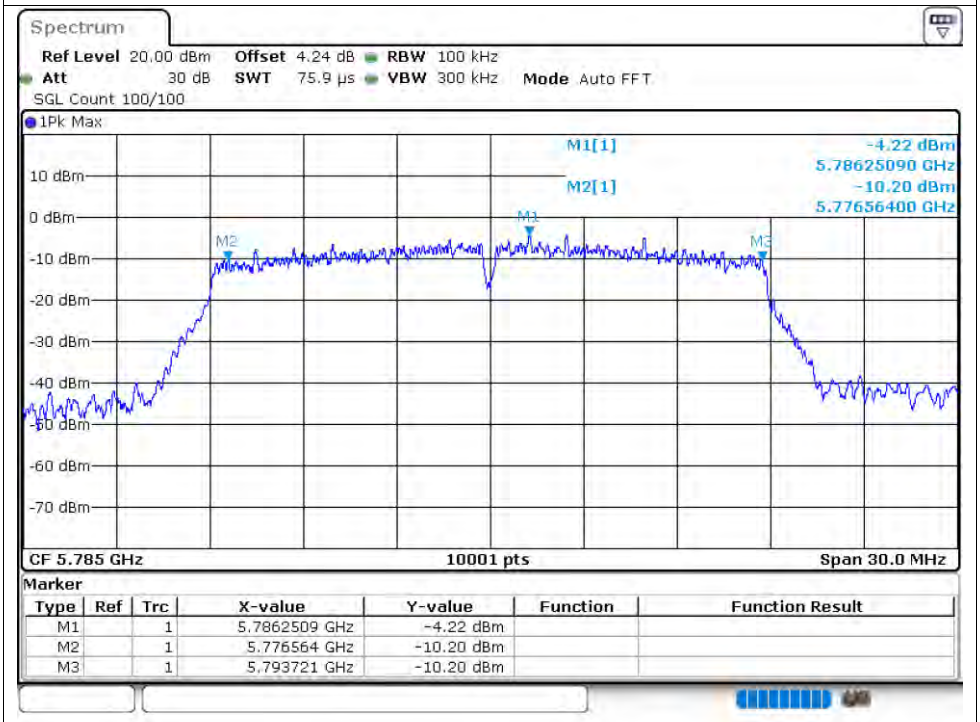
-6dB Bandwidth NVNT a 5825MHz Ant1



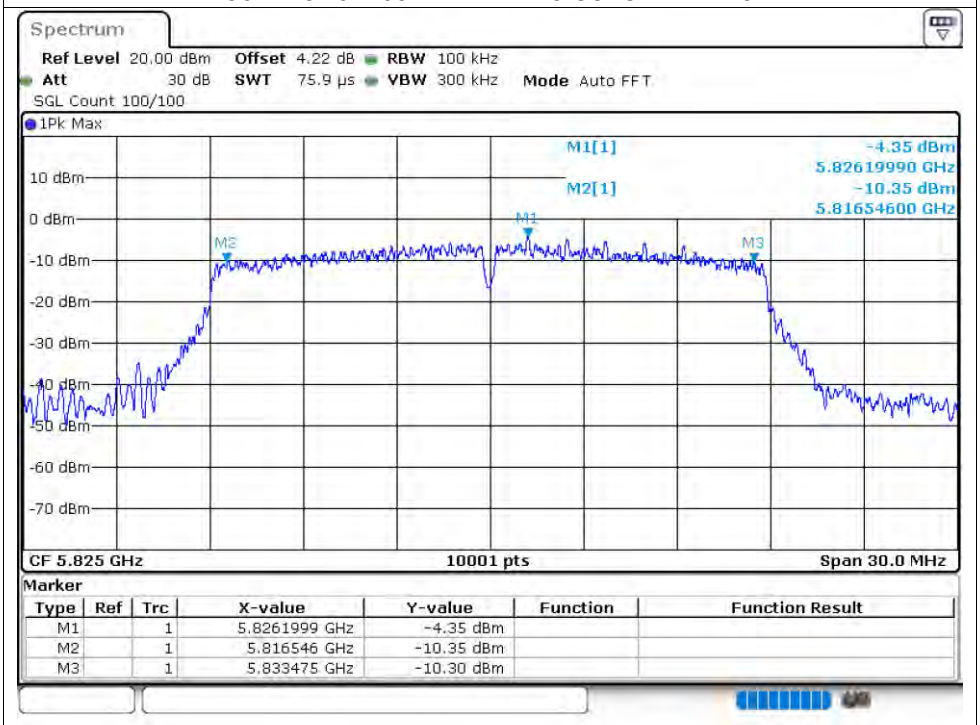
-6dB Bandwidth NVNT n20 5745MHz Ant1



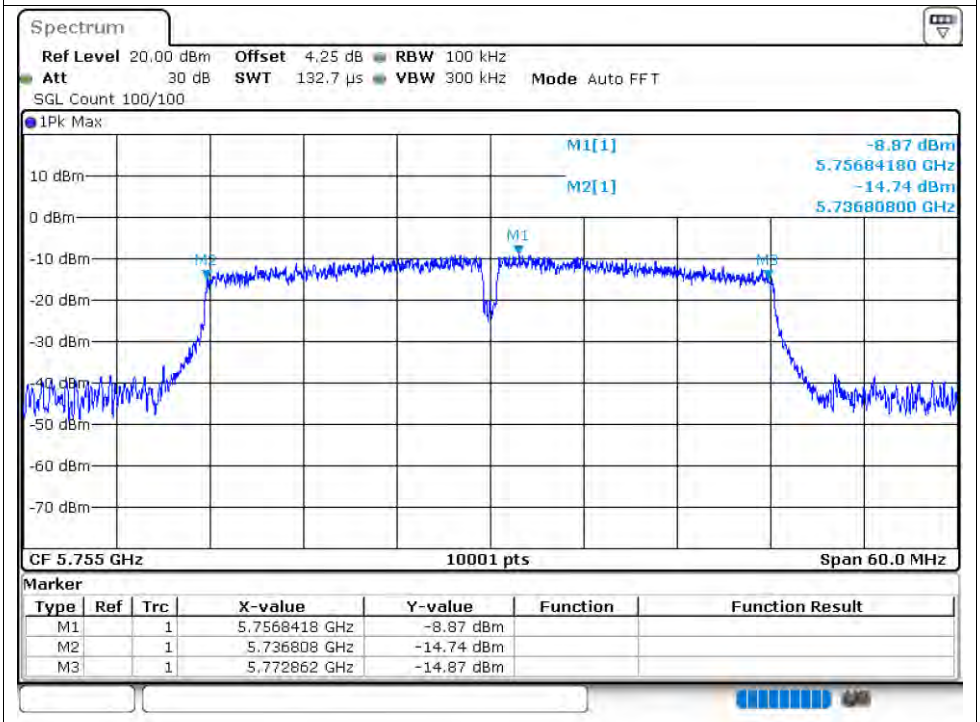
-6dB Bandwidth NVNT n20 5785MHz Ant1



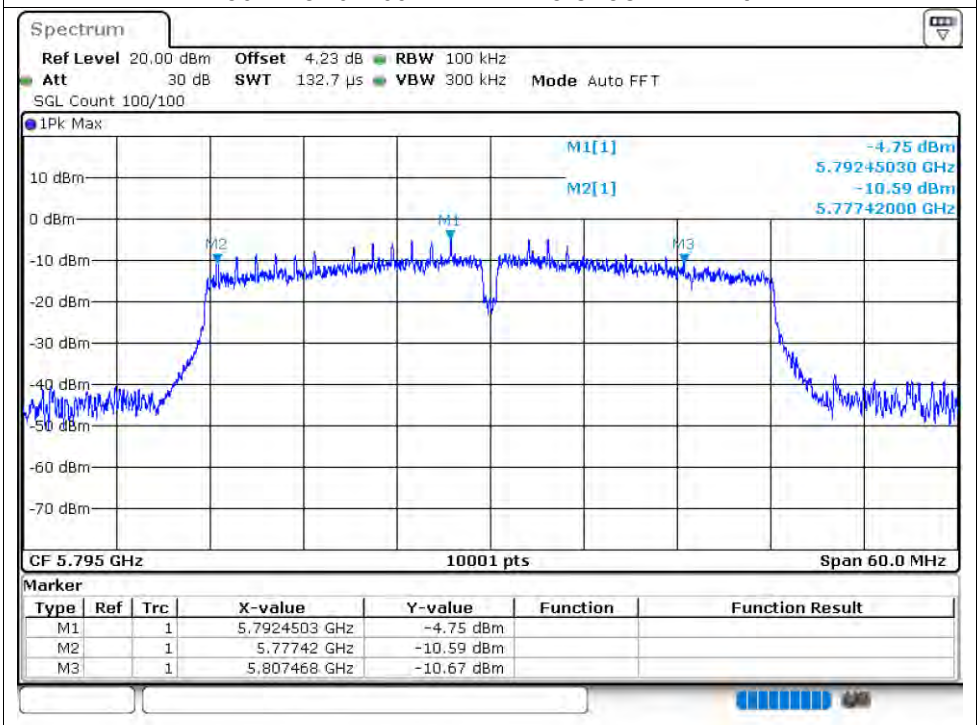
-6dB Bandwidth NVNT n20 5825MHz Ant1



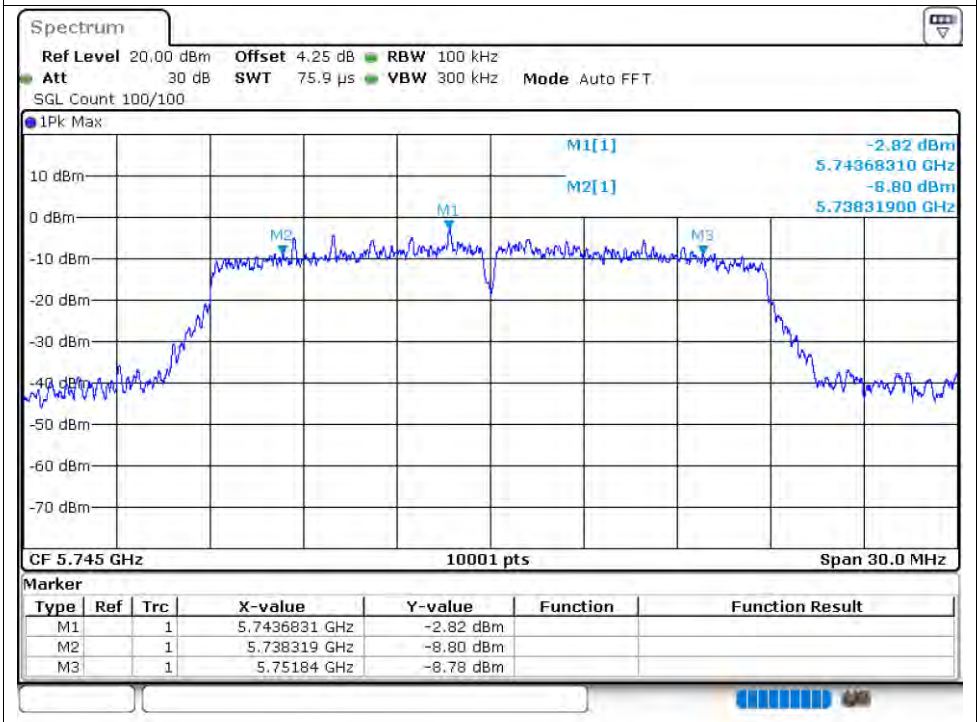
-6dB Bandwidth NVNT n40 5755MHz Ant1



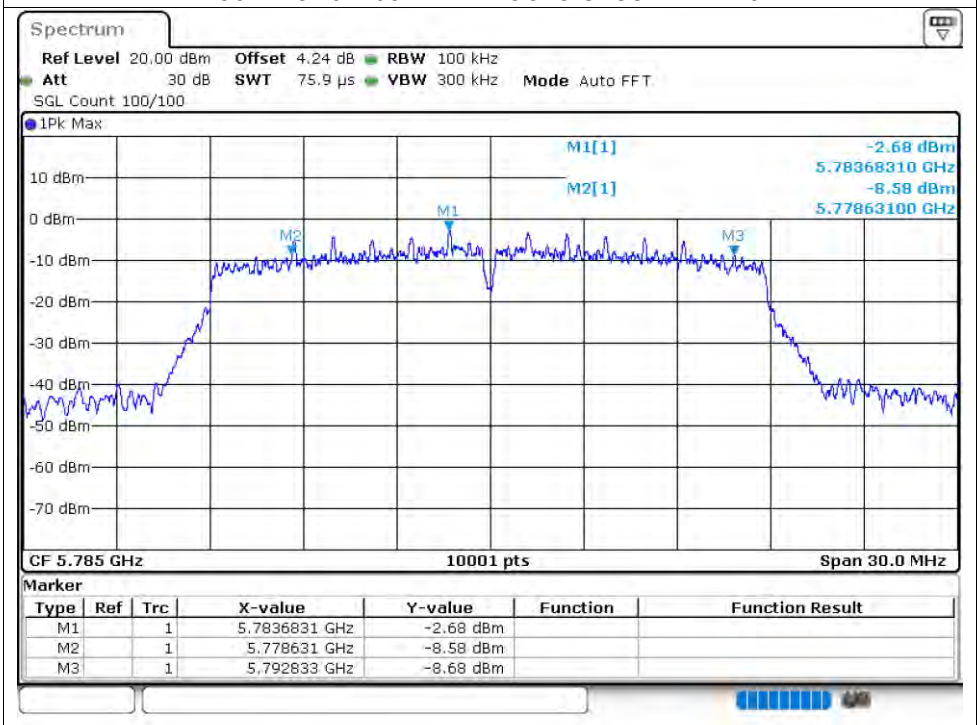
-6dB Bandwidth NVNT n40 5795MHz Ant1



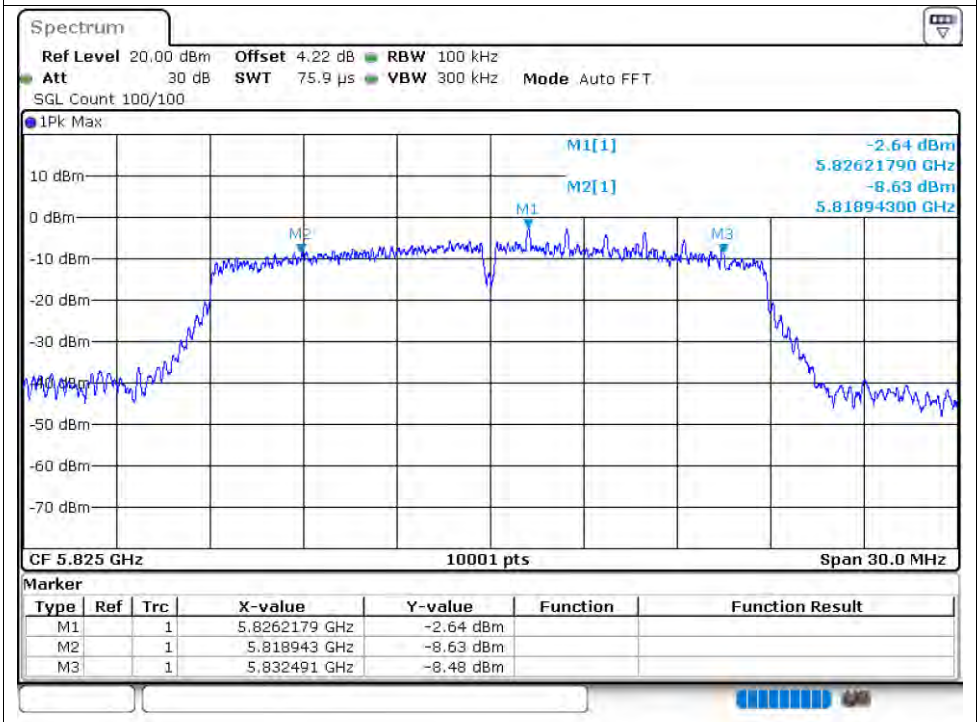
-6dB Bandwidth NVNT ac20 5745MHz Ant1



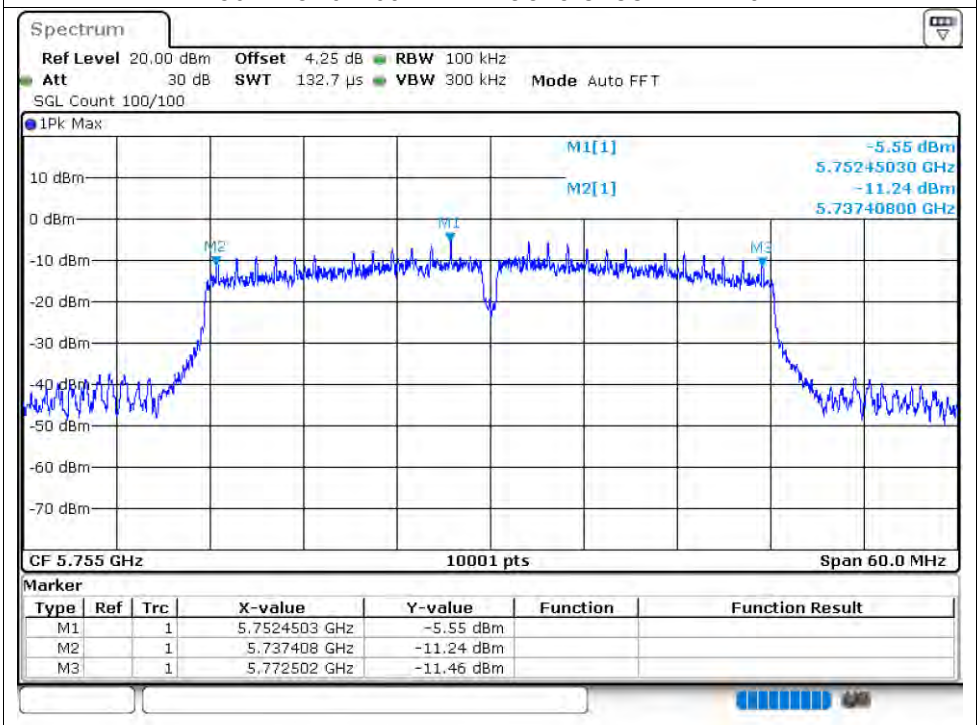
-6dB Bandwidth NVNT ac20 5785MHz Ant1



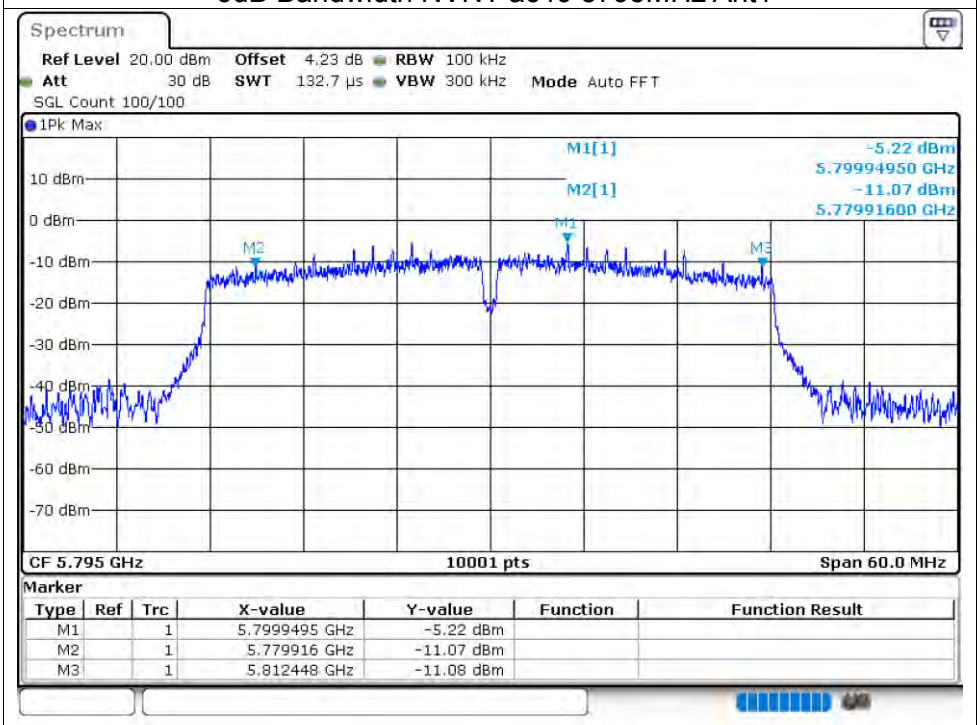
-6dB Bandwidth NVNT ac20 5825MHz Ant1



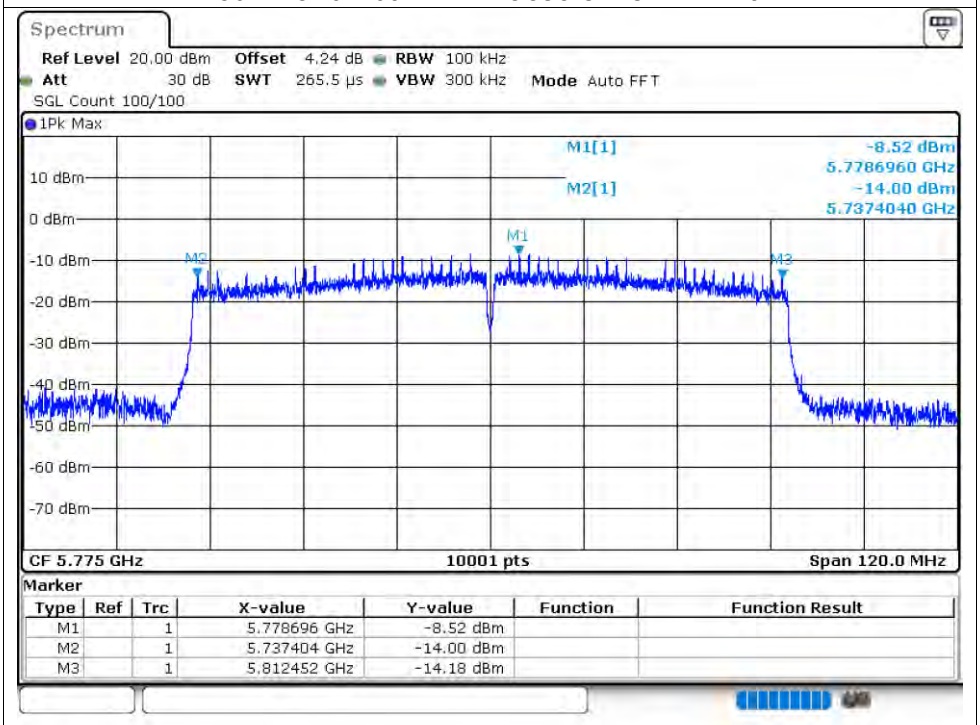
-6dB Bandwidth NVNT ac40 5755MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1

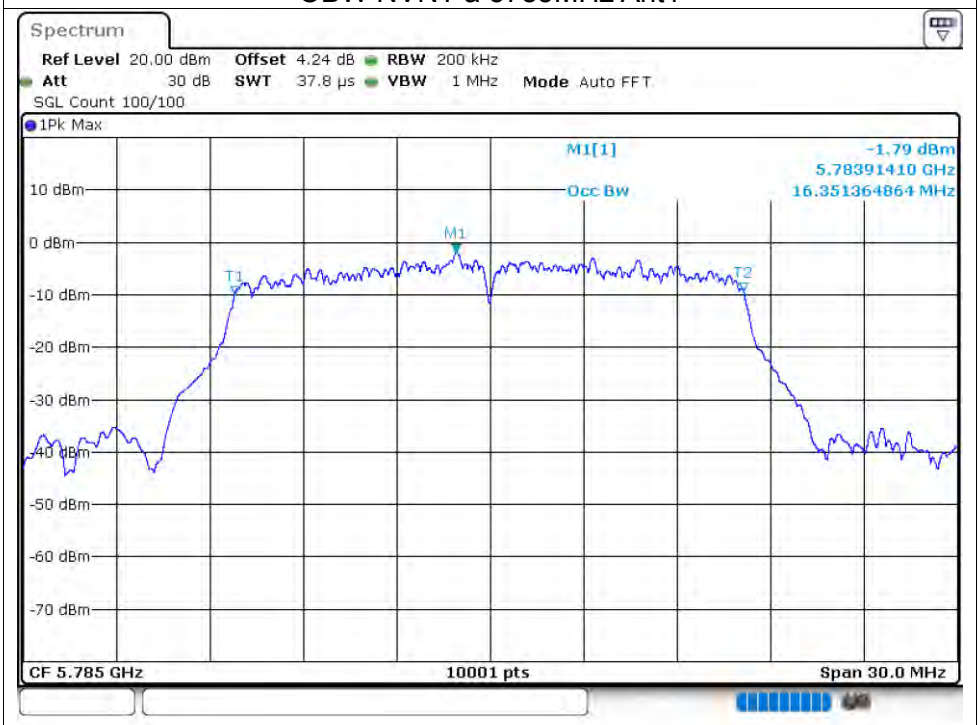


5.4 OCCUPIED CHANNEL BANDWIDTH

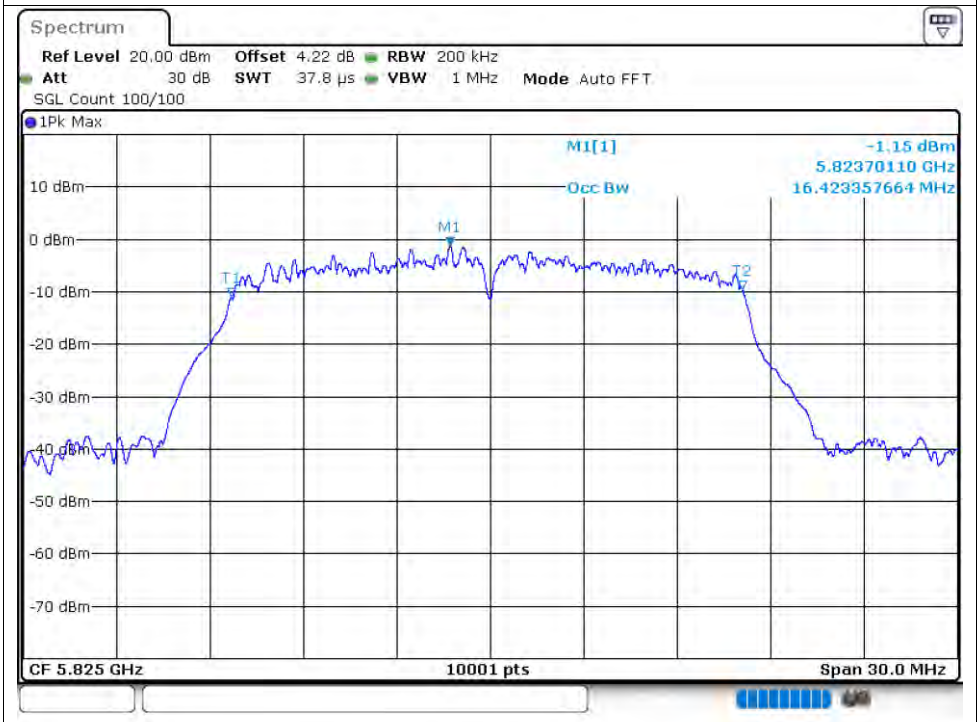
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.675
NVNT	a	5785	Ant1	16.351
NVNT	a	5825	Ant1	16.423
NVNT	n20	5745	Ant1	17.5
NVNT	n20	5785	Ant1	17.644
NVNT	n20	5825	Ant1	17.683
NVNT	n40	5755	Ant1	36.068
NVNT	n40	5795	Ant1	35.966
NVNT	ac20	5745	Ant1	17.566
NVNT	ac20	5785	Ant1	17.701
NVNT	ac20	5825	Ant1	17.653
NVNT	ac40	5755	Ant1	36.05
NVNT	ac40	5795	Ant1	35.996
NVNT	ac80	5775	Ant1	75.22

Test Graphs
OBW NVNT a 5745MHz Ant1

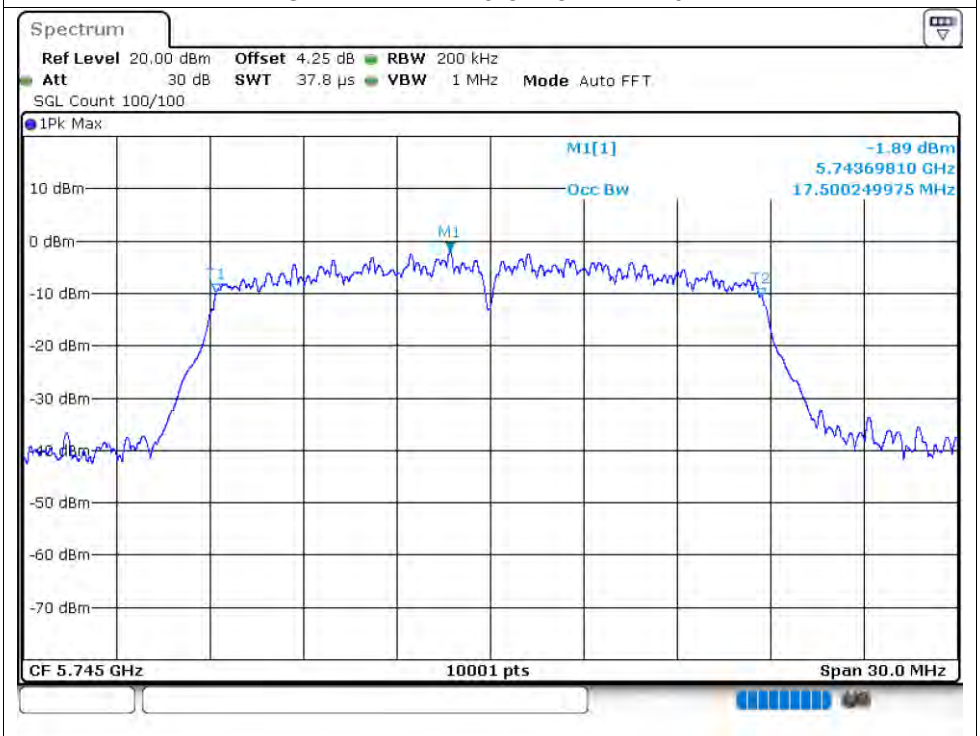
OBW NVNT a 5785MHz Ant1



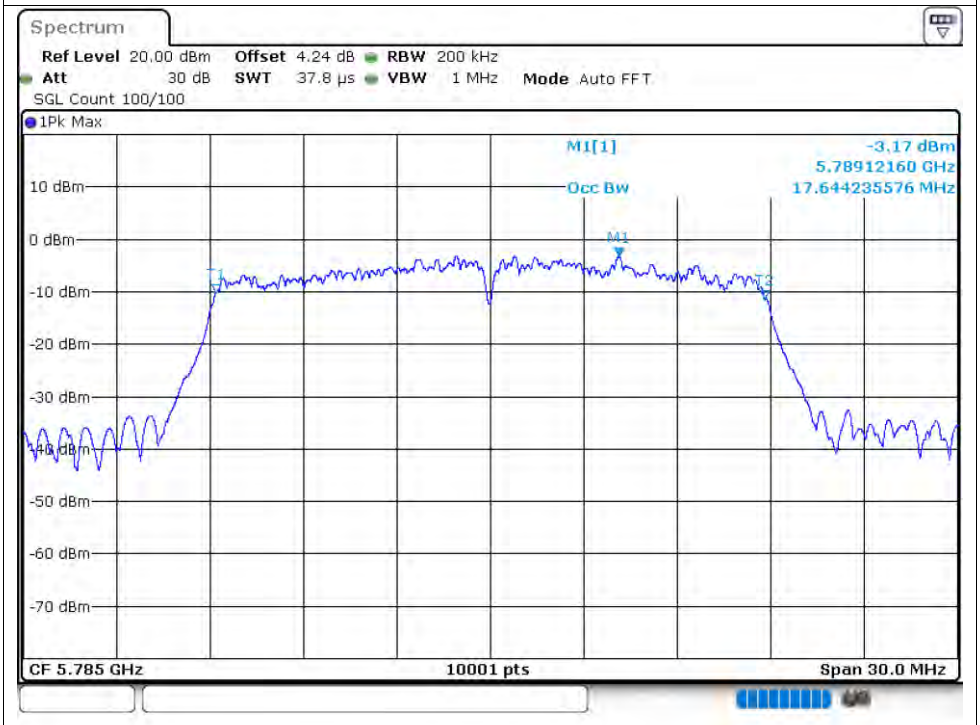
OBW NVNT a 5825MHz Ant1



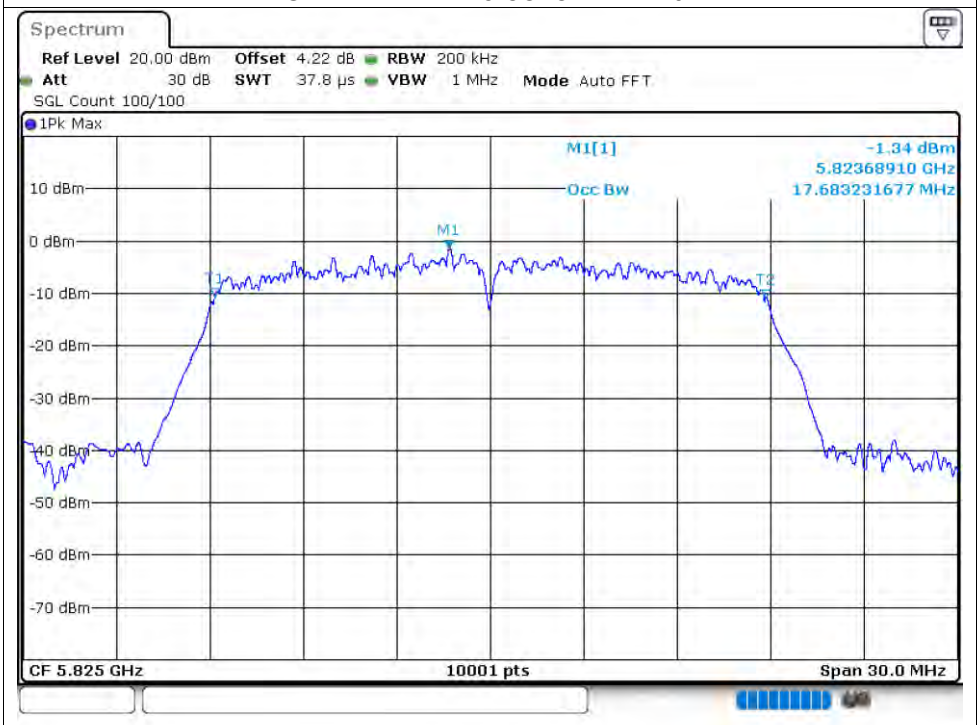
OBW NVNT n20 5745MHz Ant1



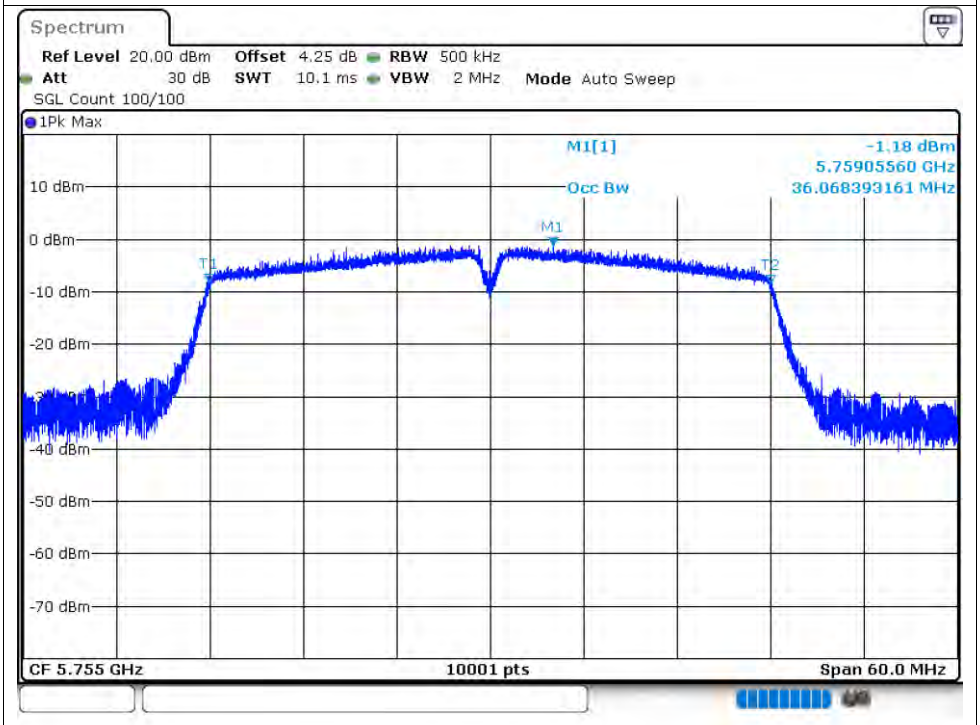
OBW NVNT n20 5785MHz Ant1



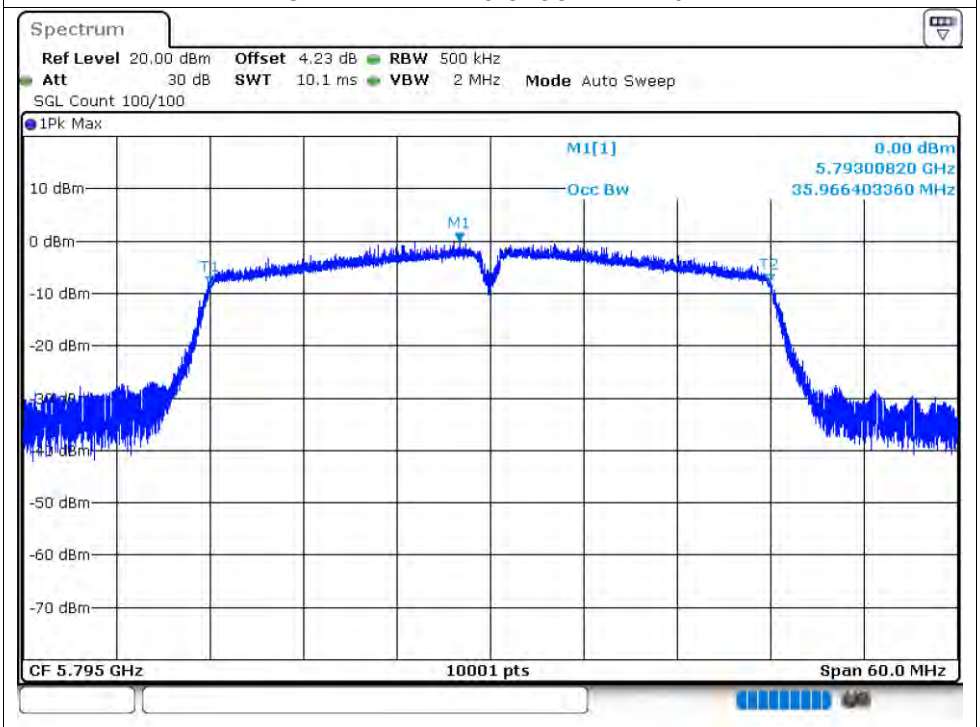
OBW NVNT n20 5825MHz Ant1



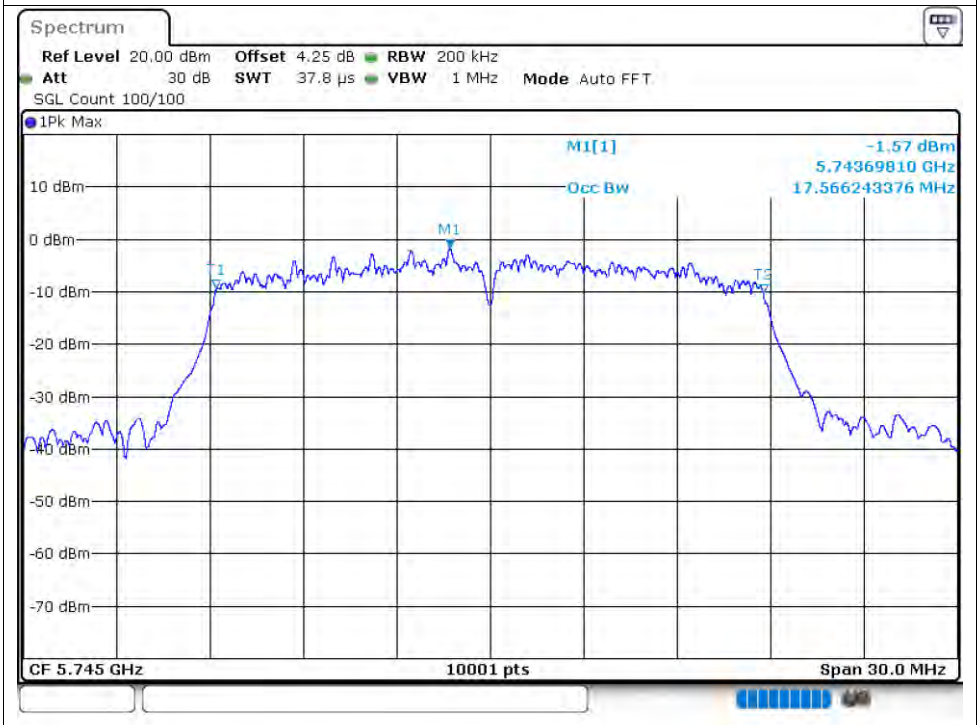
OBW NVNT n40 5755MHz Ant1



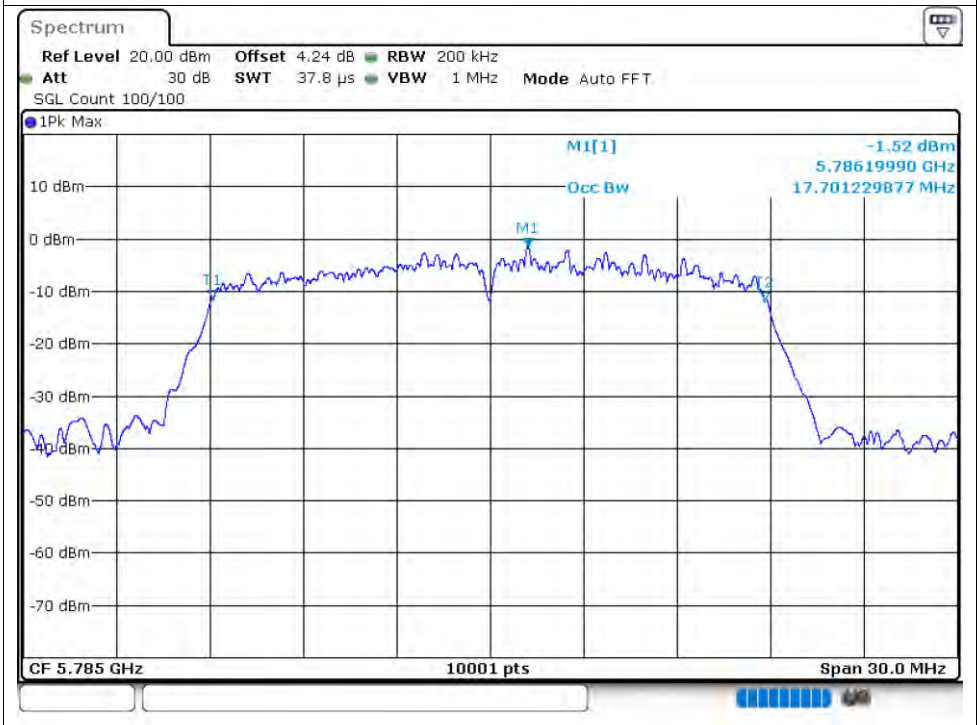
OBW NVNT n40 5795MHz Ant1



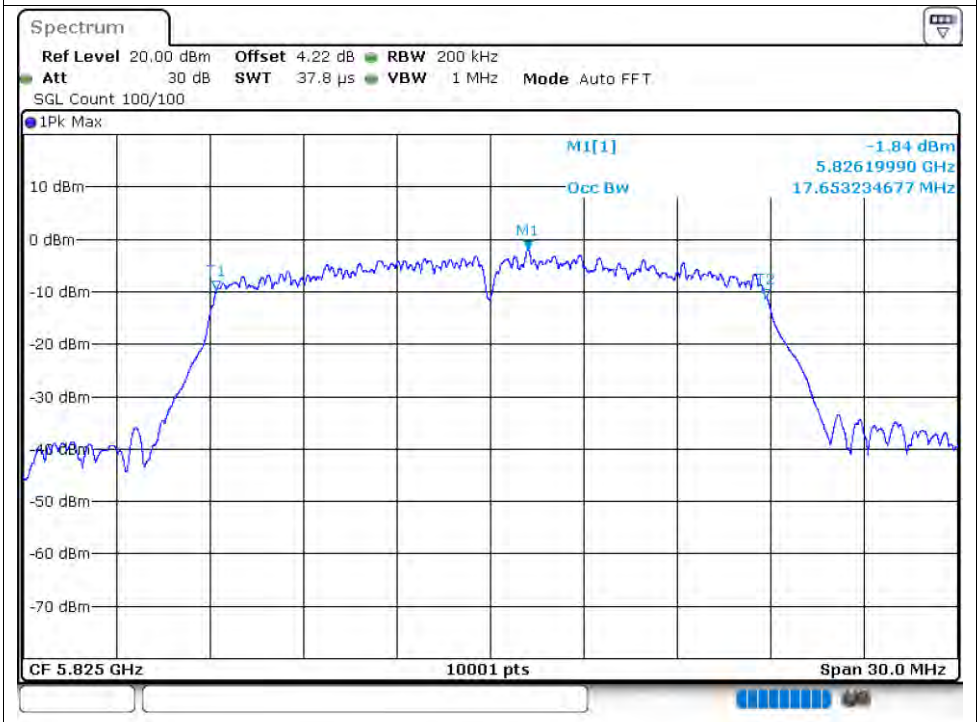
OBW NVNT ac20 5745MHz Ant1



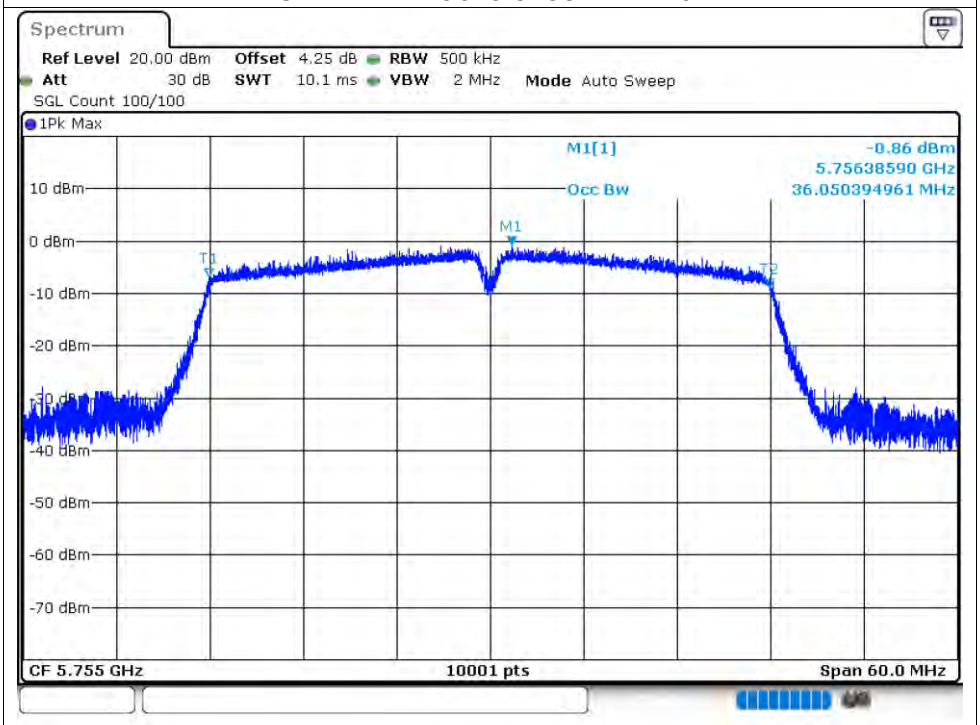
OBW NVNT ac20 5785MHz Ant1



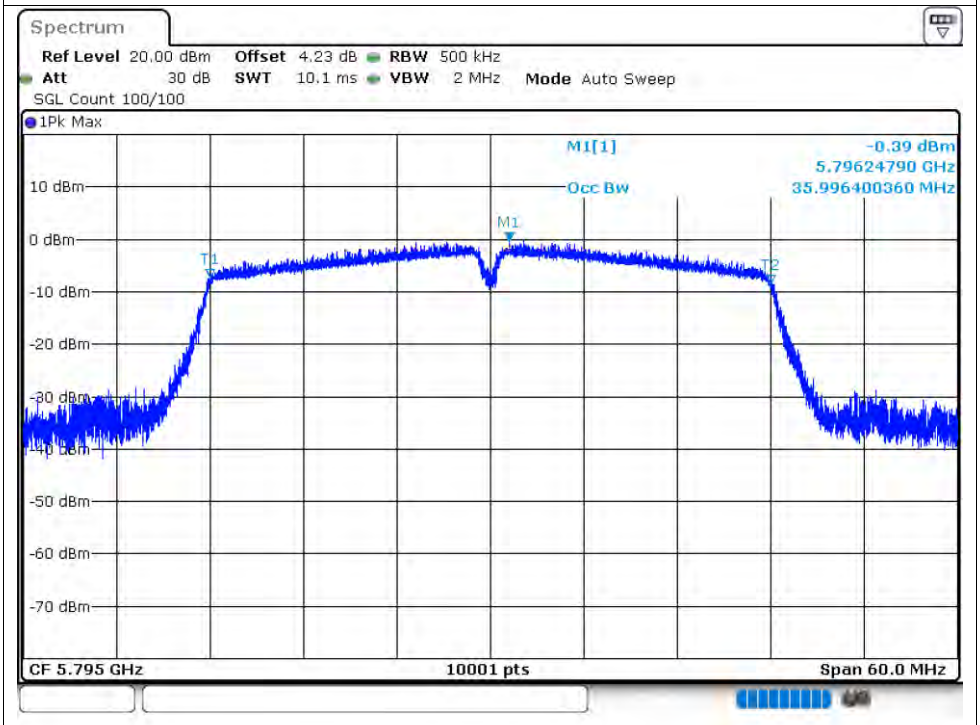
OBW NVNT ac20 5825MHz Ant1



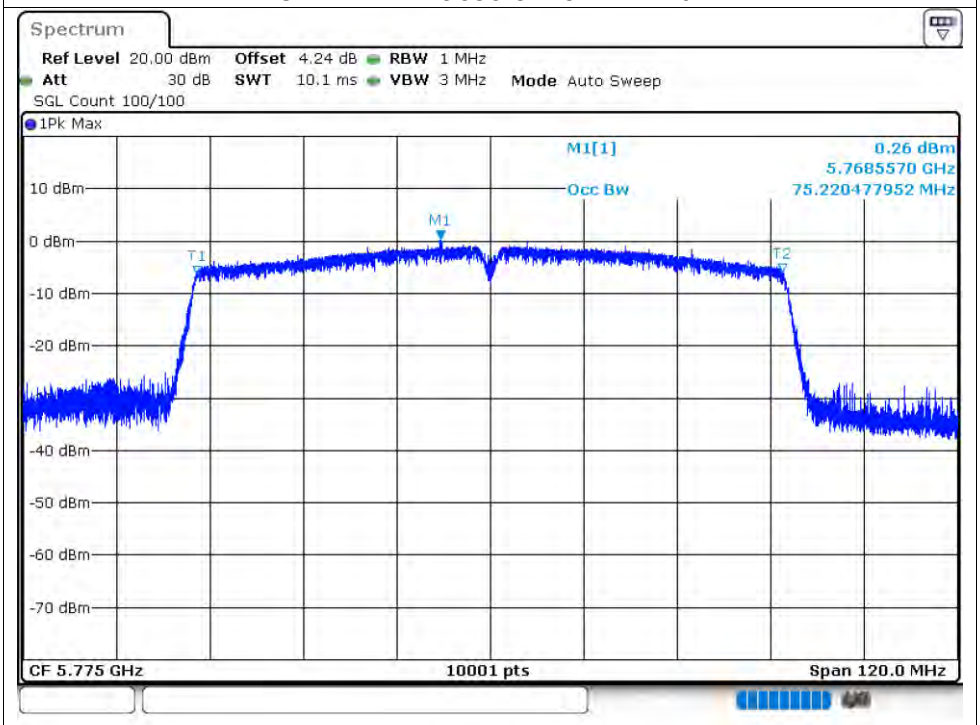
OBW NVNT ac40 5755MHz Ant1



OBW NVNT ac40 5795MHz Ant1



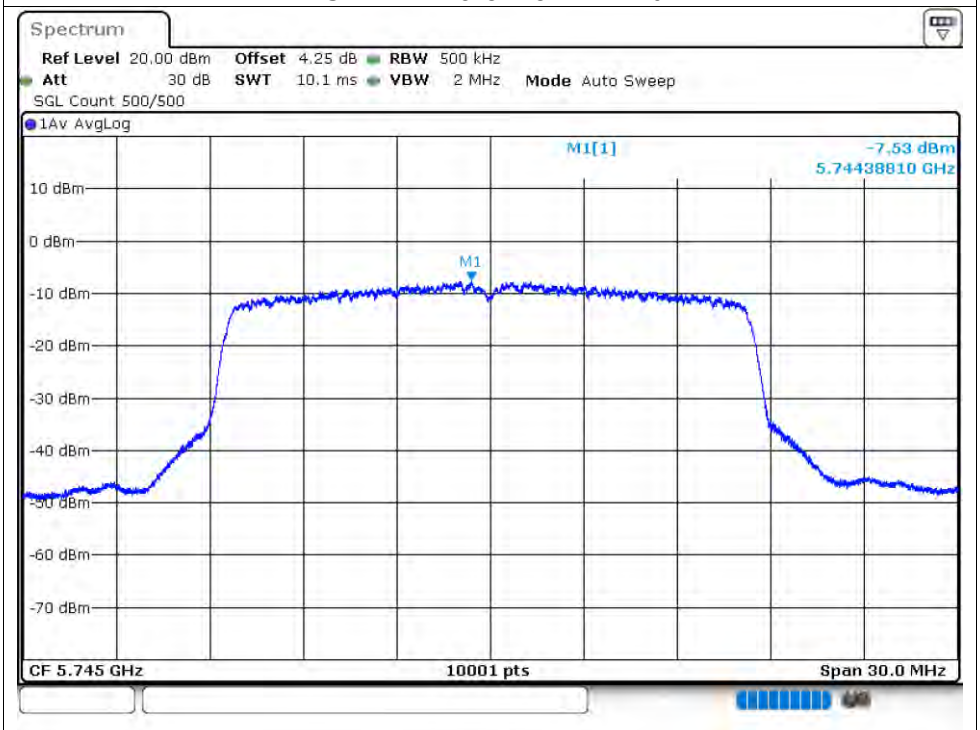
OBW NVNT ac80 5775MHz Ant1



5.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL

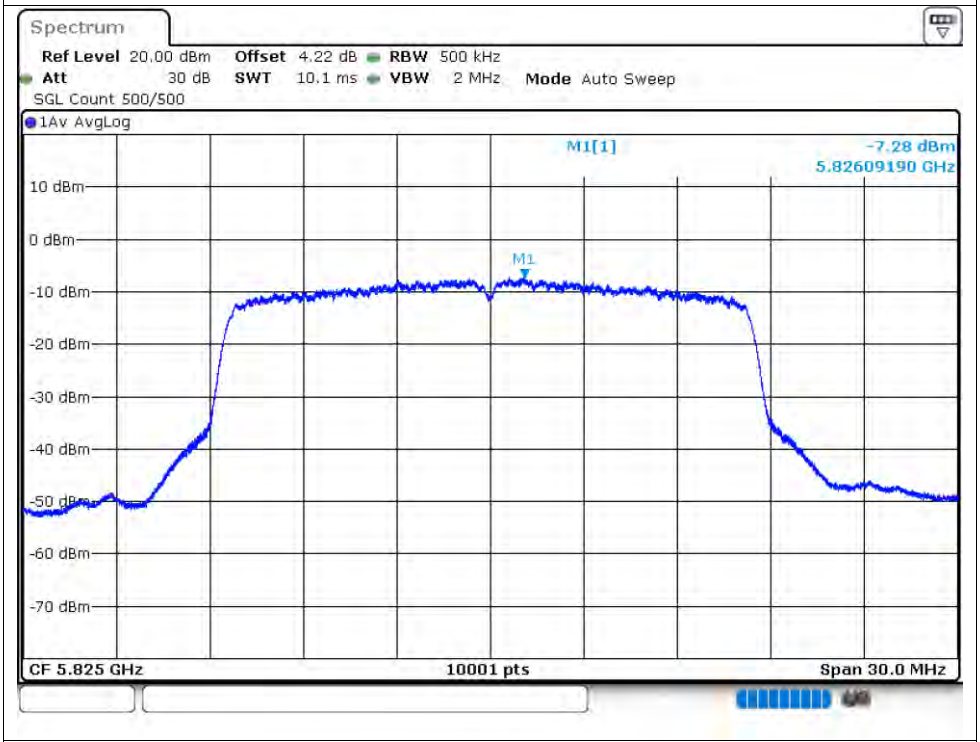
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-7.53	0.06	-7.47	30	Pass
NVNT	a	5785	Ant1	-7.7	0.08	-7.62	30	Pass
NVNT	a	5825	Ant1	-7.28	0.04	-7.24	30	Pass
NVNT	n20	5745	Ant1	-8.56	0.09	-8.47	30	Pass
NVNT	n20	5785	Ant1	-7.56	0.09	-7.47	30	Pass
NVNT	n20	5825	Ant1	-7.52	0.05	-7.47	30	Pass
NVNT	n40	5755	Ant1	-11.79	0.12	-11.67	30	Pass
NVNT	n40	5795	Ant1	-11.09	0.1	-10.99	30	Pass
NVNT	ac20	5745	Ant1	-8.05	0.06	-7.99	30	Pass
NVNT	ac20	5785	Ant1	-7.91	0.09	-7.82	30	Pass
NVNT	ac20	5825	Ant1	-7.77	0.05	-7.72	30	Pass
NVNT	ac40	5755	Ant1	-11.97	0.11	-11.86	30	Pass
NVNT	ac40	5795	Ant1	-11.32	0.11	-11.21	30	Pass
NVNT	ac80	5775	Ant1	-16.14	0.32	-15.82	30	Pass

Test Graphs
PSD NVNT a 5745MHz Ant1

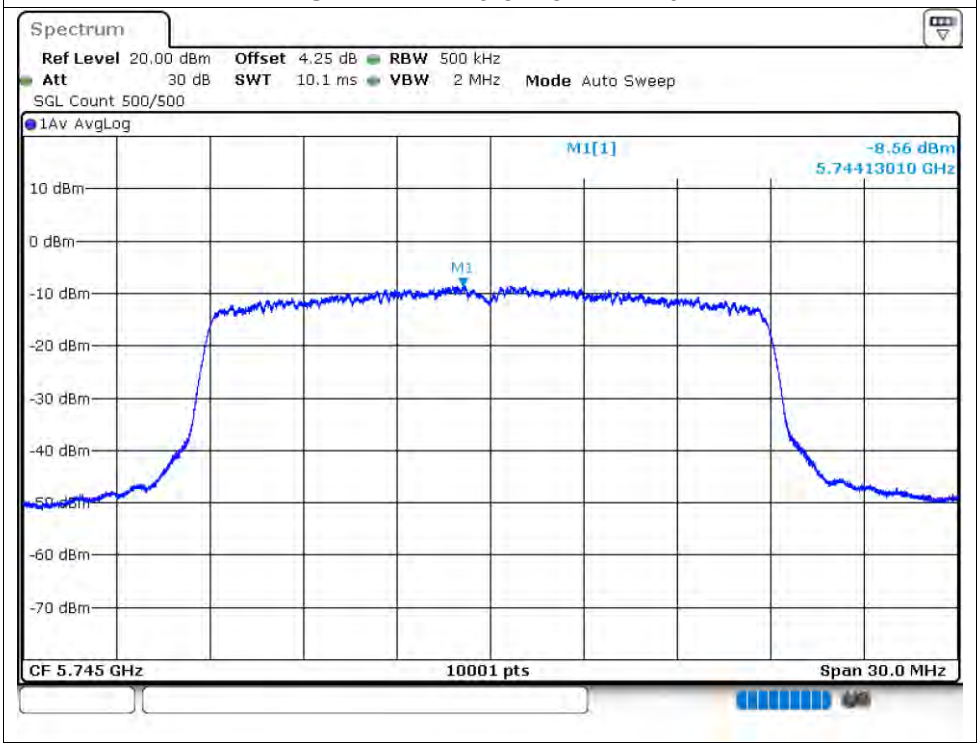


PSD NVNT a 5785MHz Ant1

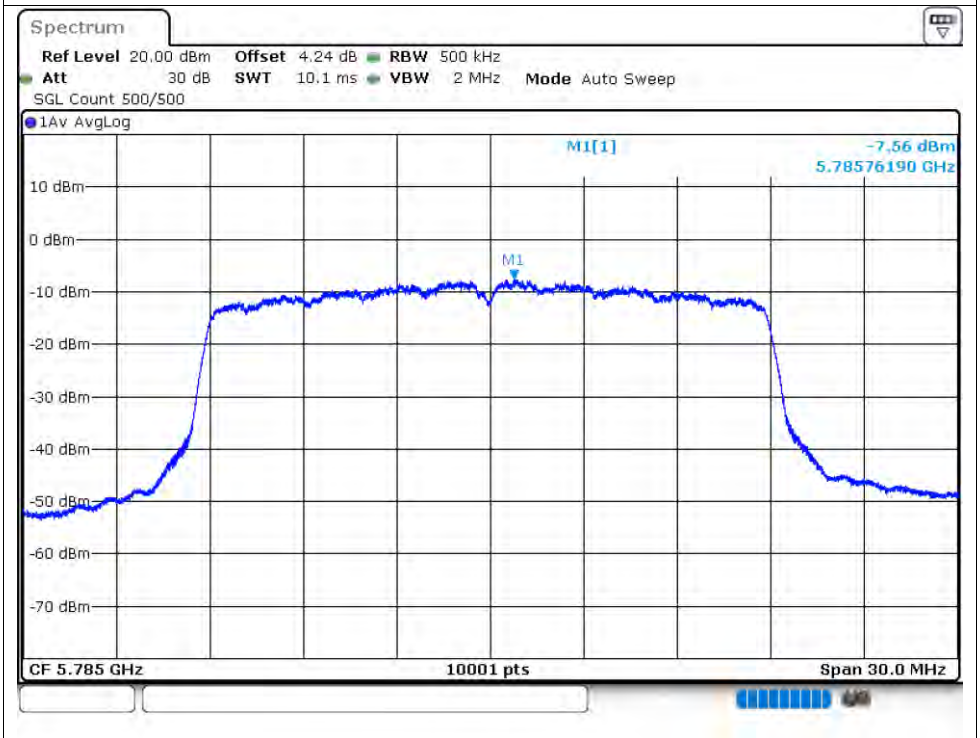
PSD NVNT a 5825MHz Ant1



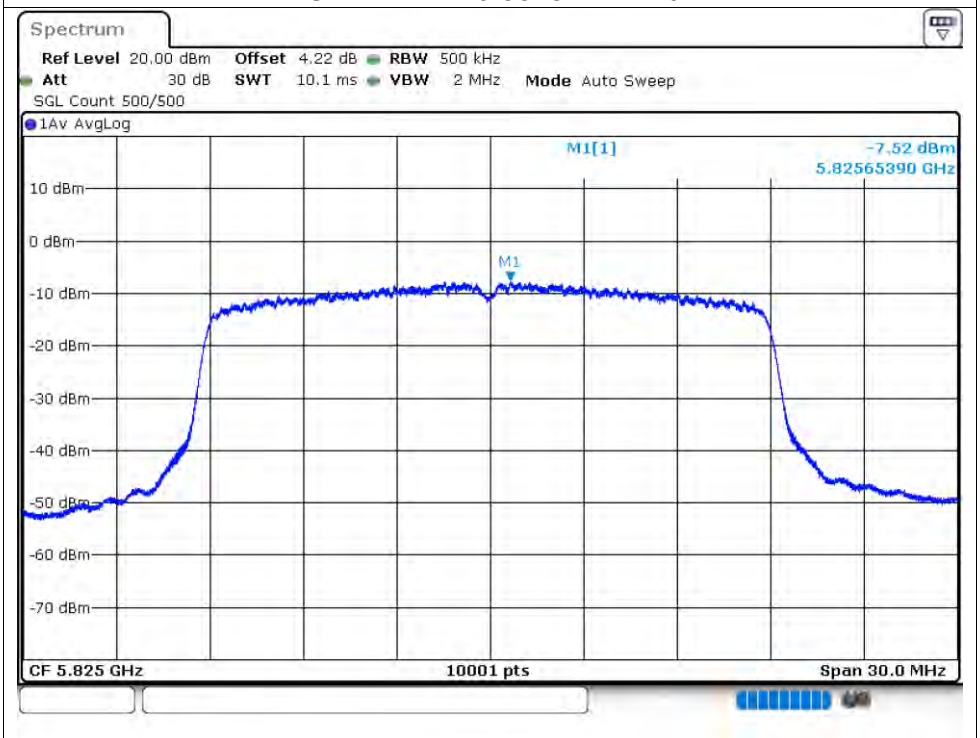
PSD NVNT n20 5745MHz Ant1



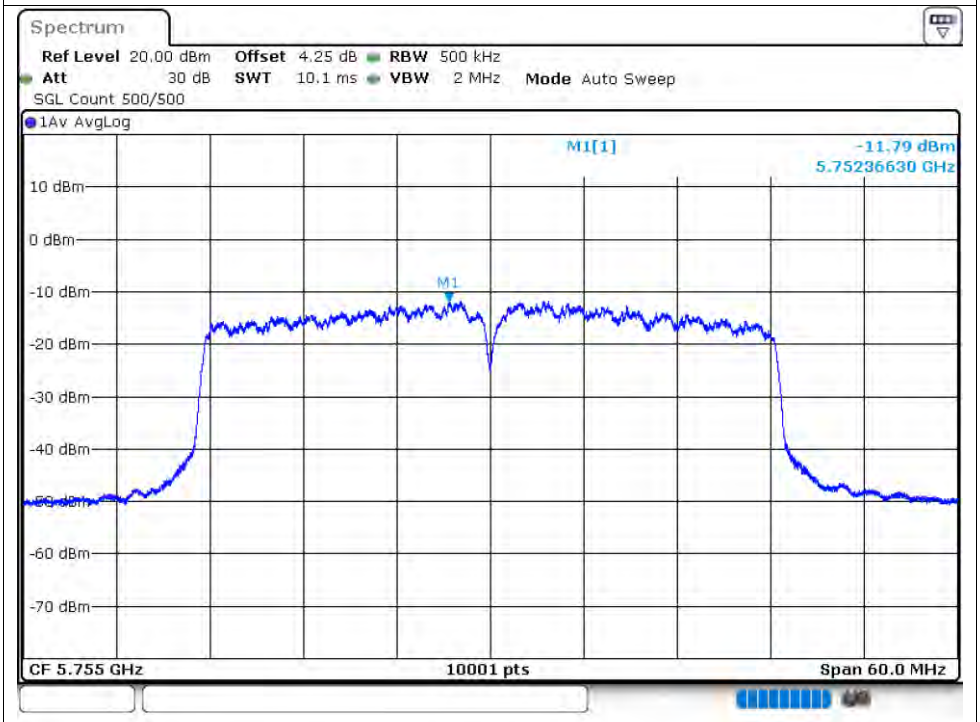
PSD NVNT n20 5785MHz Ant1



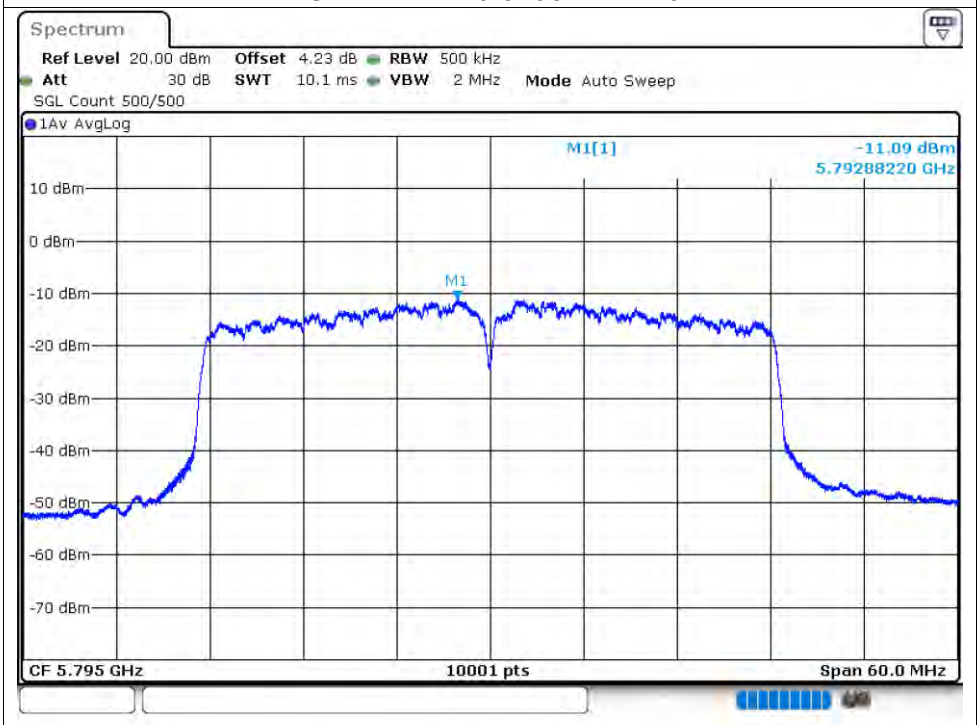
PSD NVNT n20 5825MHz Ant1



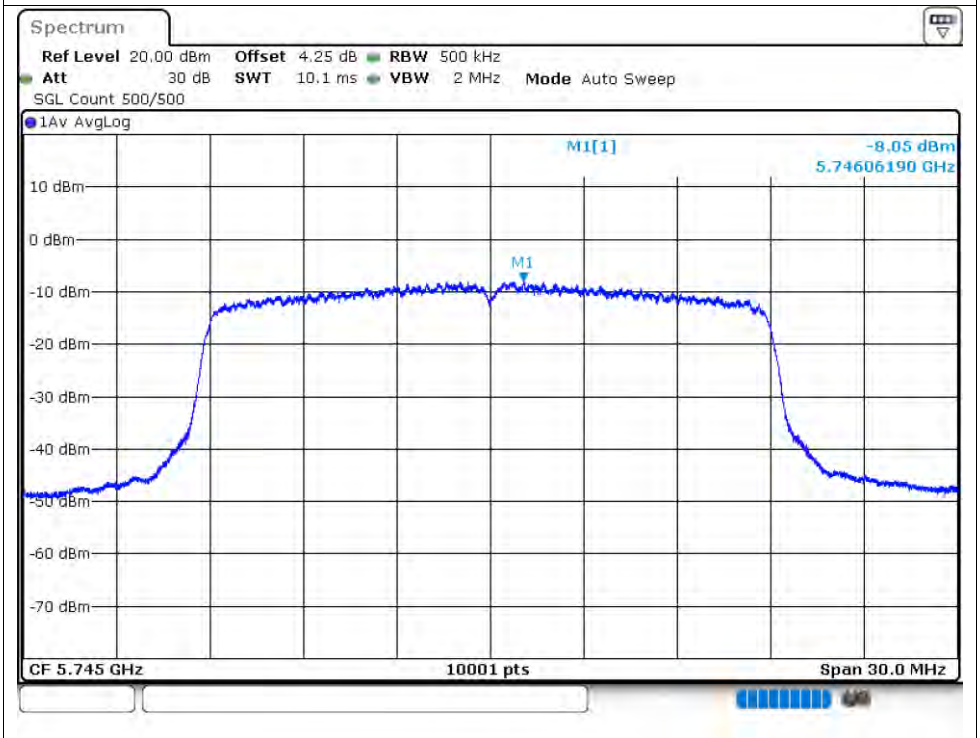
PSD NVNT n40 5755MHz Ant1



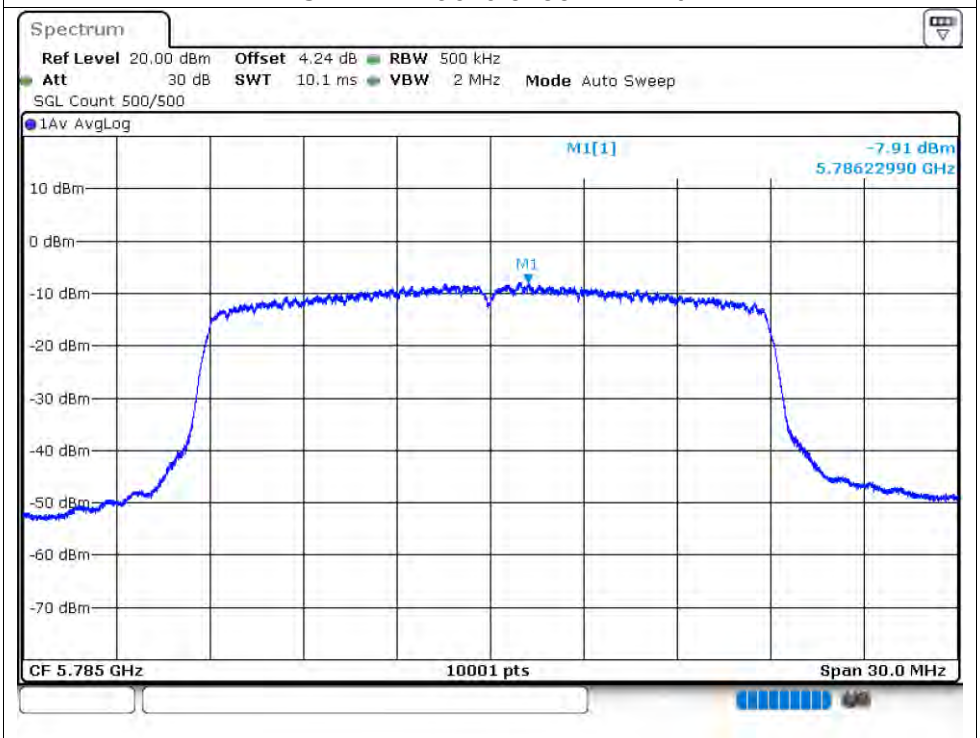
PSD NVNT n40 5795MHz Ant1



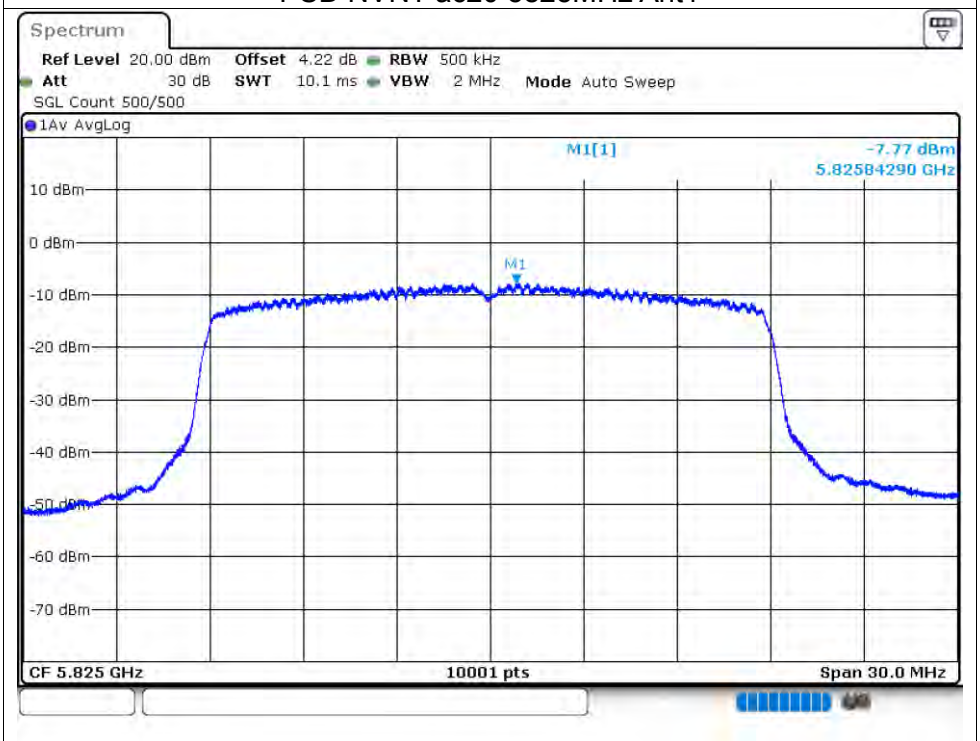
PSD NVNT ac20 5745MHz Ant1



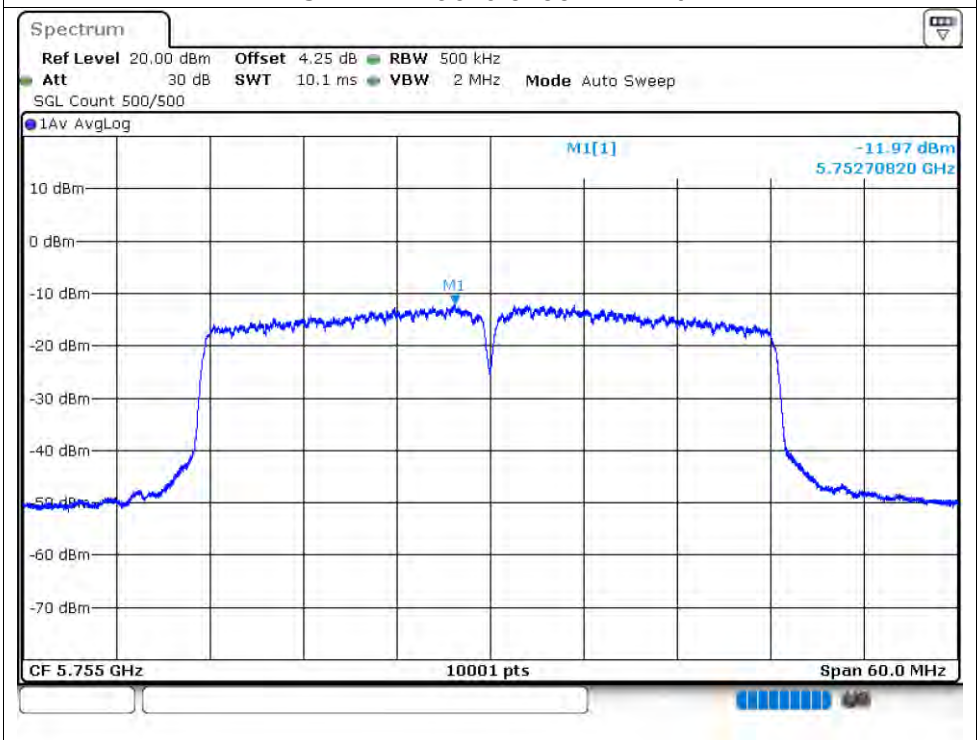
PSD NVNT ac20 5785MHz Ant1



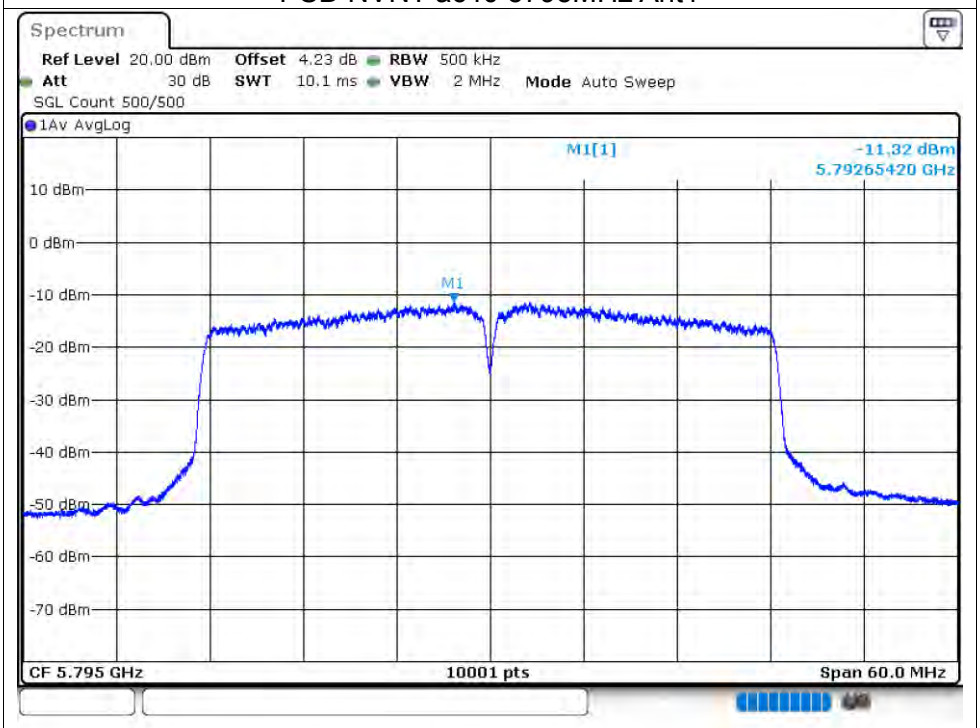
PSD NVNT ac20 5825MHz Ant1



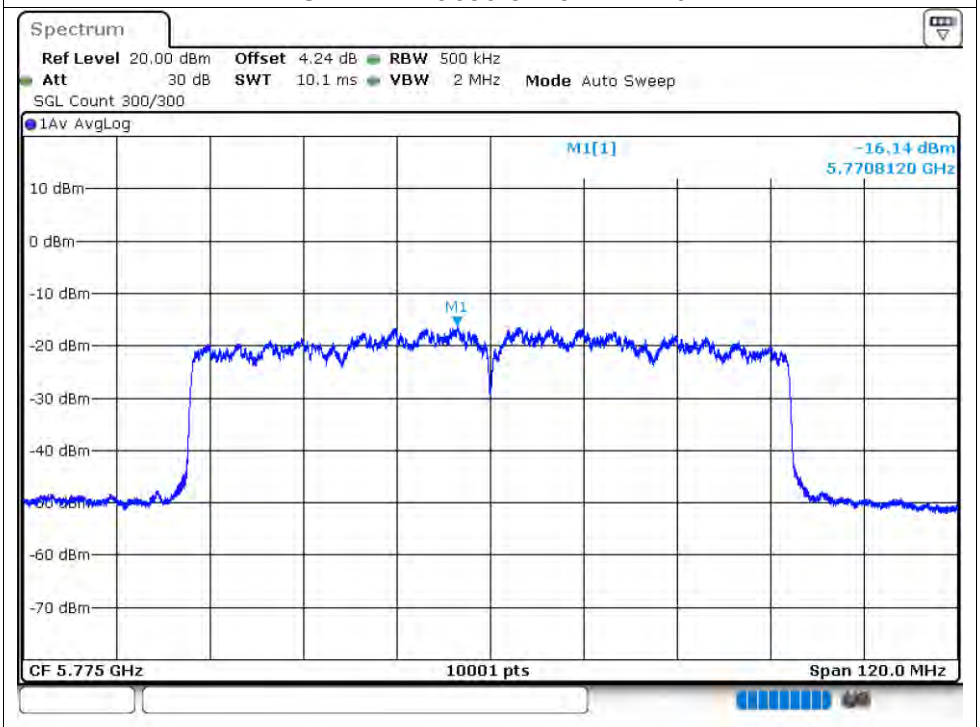
PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5775MHz Ant1

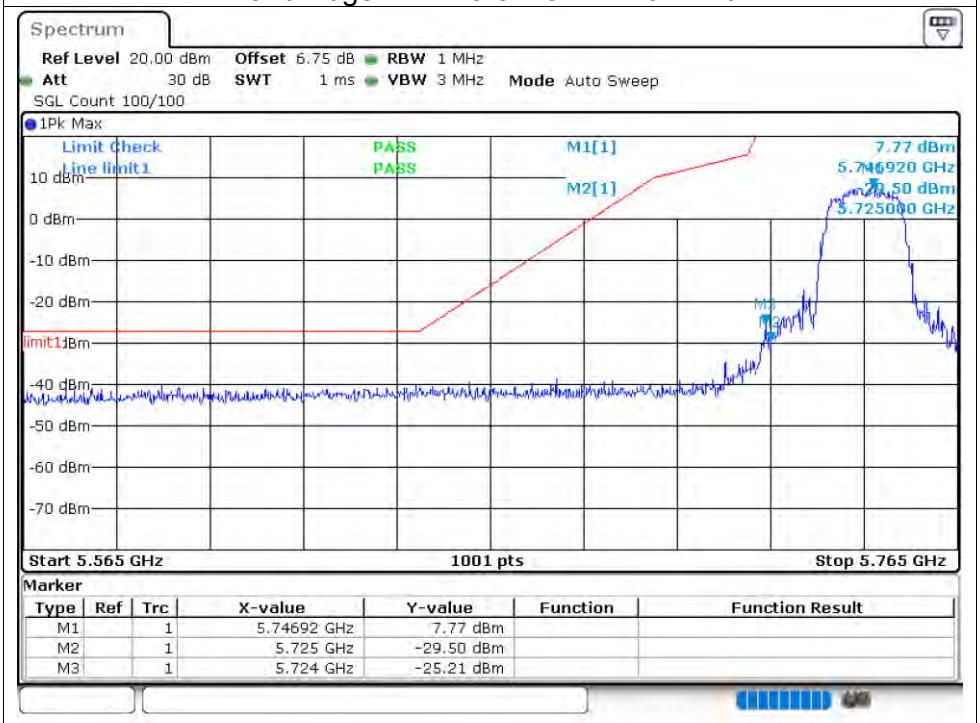


5.6 BAND EDGE

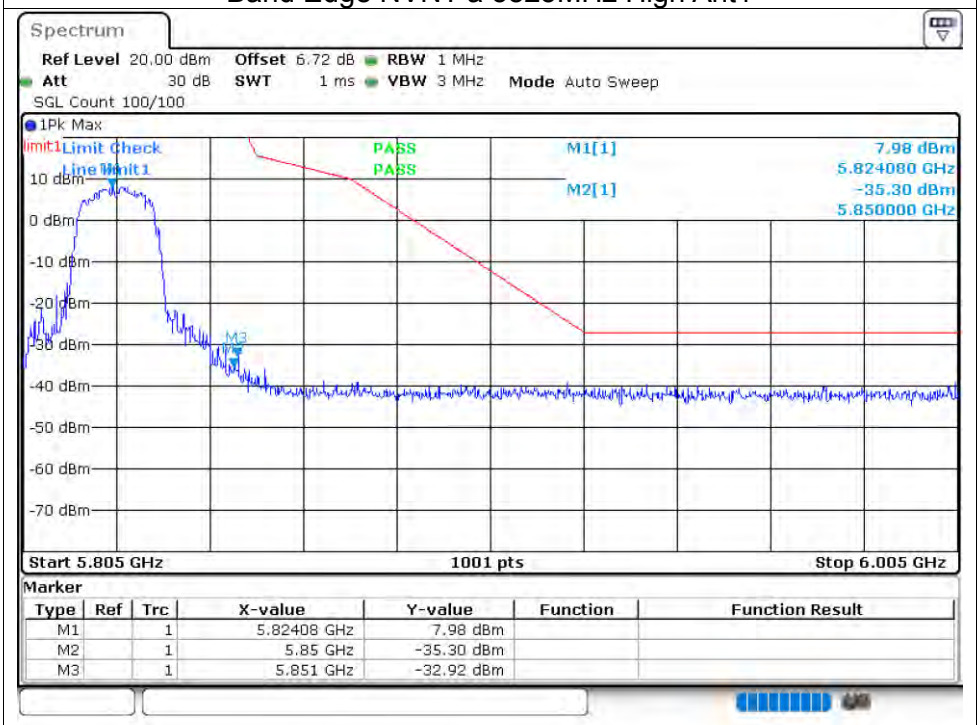
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Verdict
NVNT	a	5745	Ant1	-25.21	Pass
NVNT	a	5825	Ant1	-32.91	Pass
NVNT	n20	5745	Ant1	-28.56	Pass
NVNT	n20	5825	Ant1	-33.05	Pass
NVNT	n40	5755	Ant1	-22.57	Pass
NVNT	n40	5795	Ant1	-36.51	Pass
NVNT	ac20	5745	Ant1	-26.91	Pass
NVNT	ac20	5825	Ant1	-31.95	Pass
NVNT	ac40	5755	Ant1	-24.52	Pass
NVNT	ac40	5795	Ant1	-37.17	Pass
NVNT	ac80	5775	Ant1	-33.87	Pass

Test Graphs

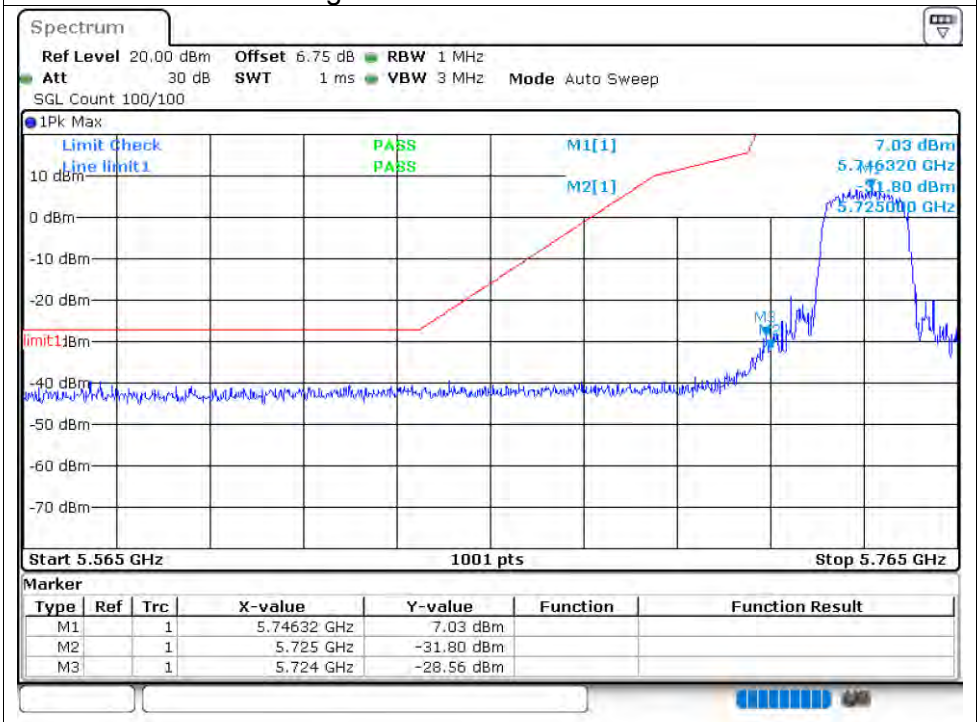
Band Edge NVNT a 5745MHz Low Ant1



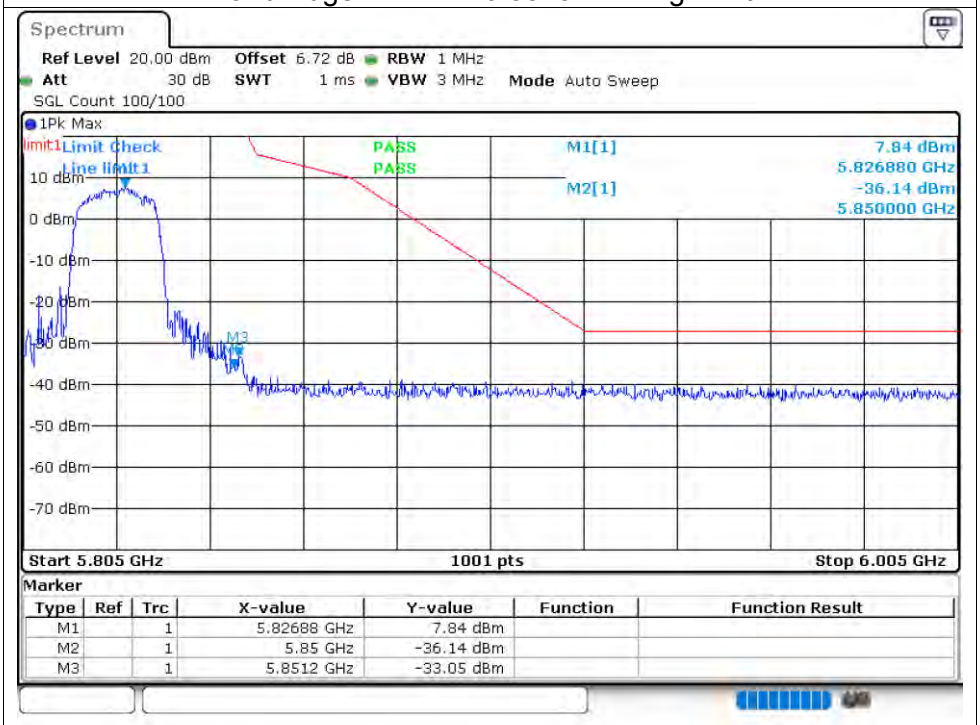
Band Edge NVNT a 5825MHz High Ant1



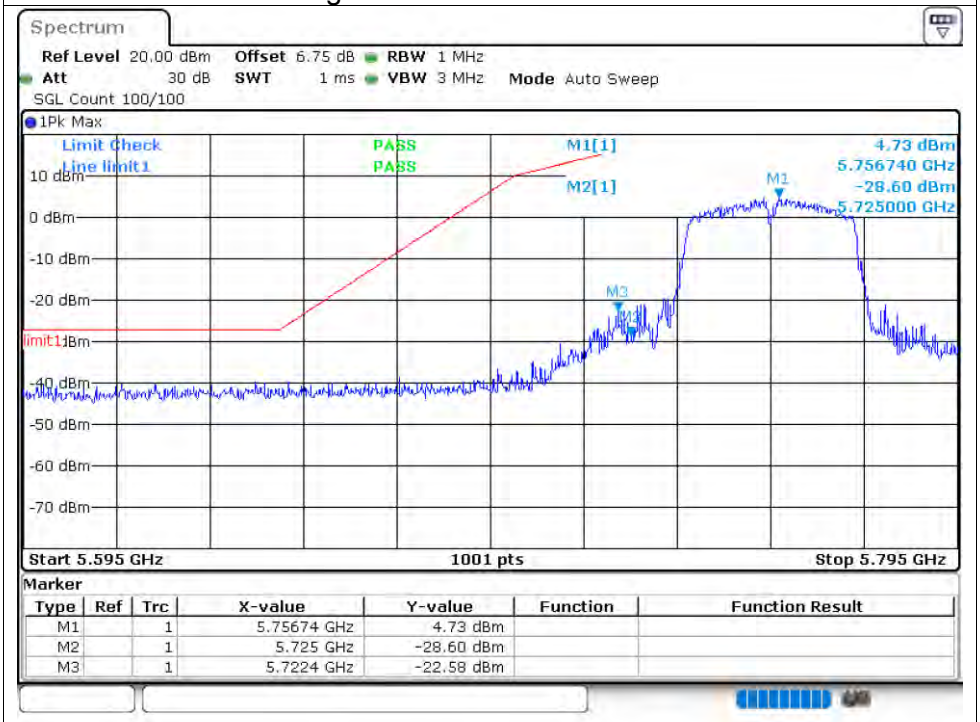
Band Edge NVNT n20 5745MHz Low Ant1



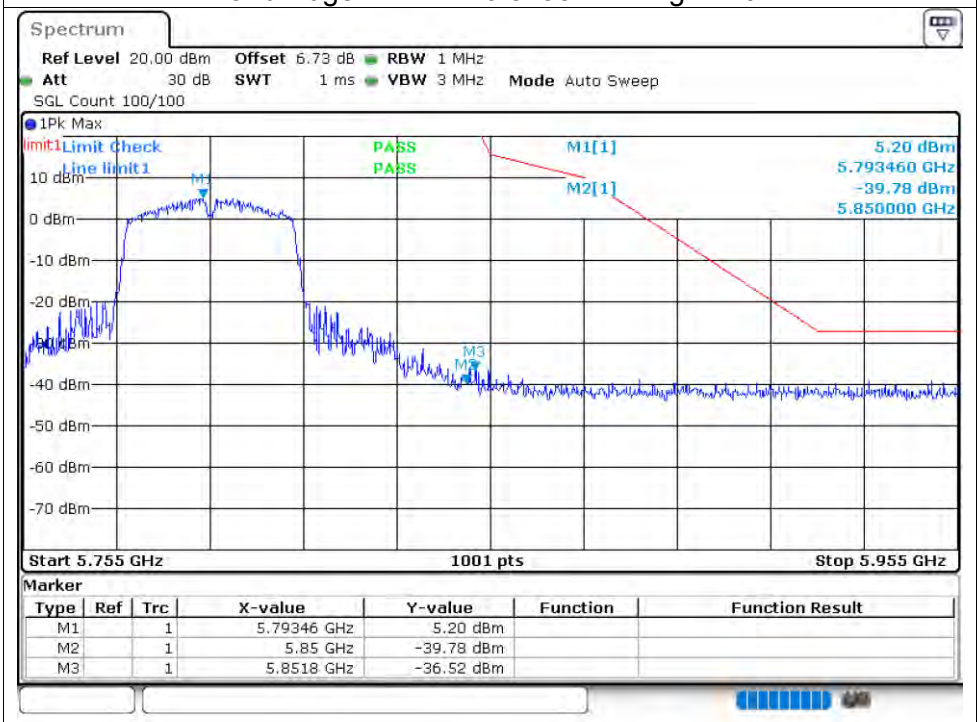
Band Edge NVNT n20 5825MHz High Ant1



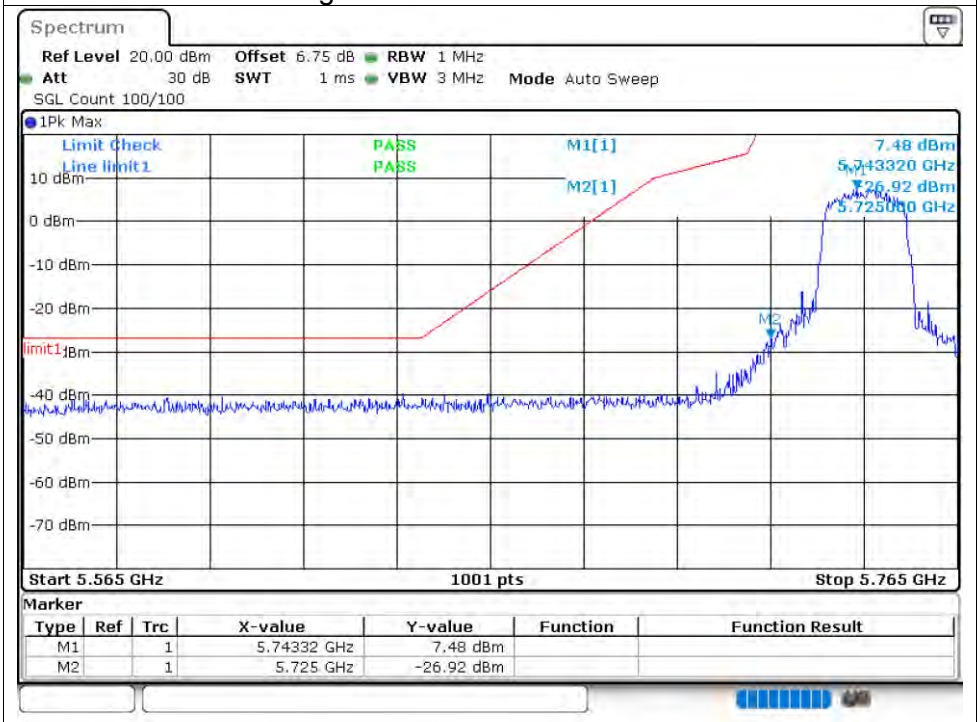
Band Edge NVNT n40 5755MHz Low Ant1



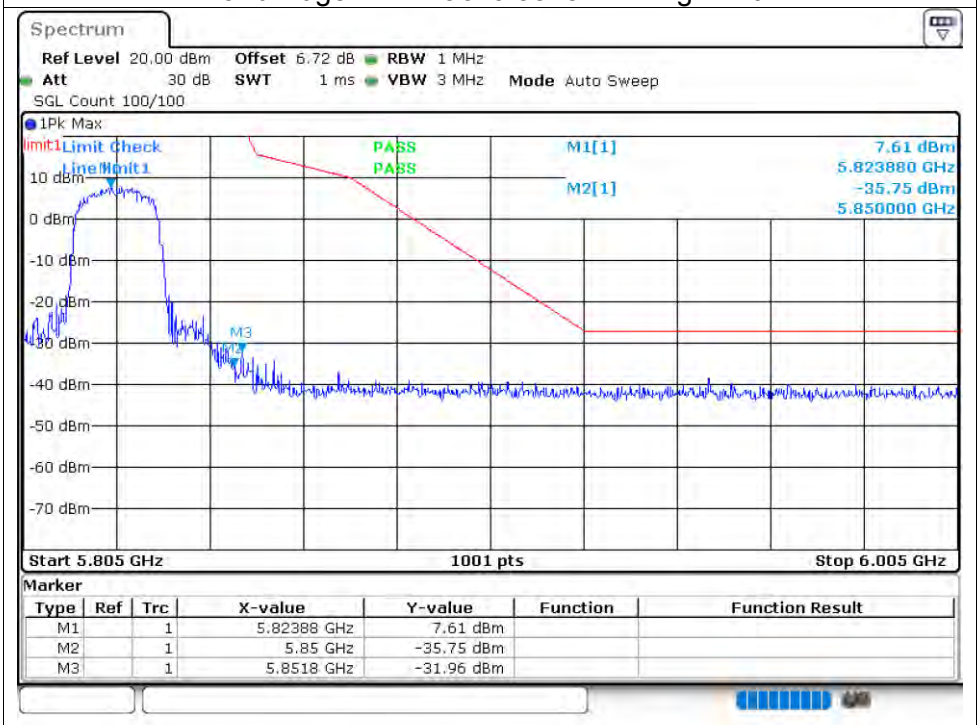
Band Edge NVNT n40 5795MHz High Ant1



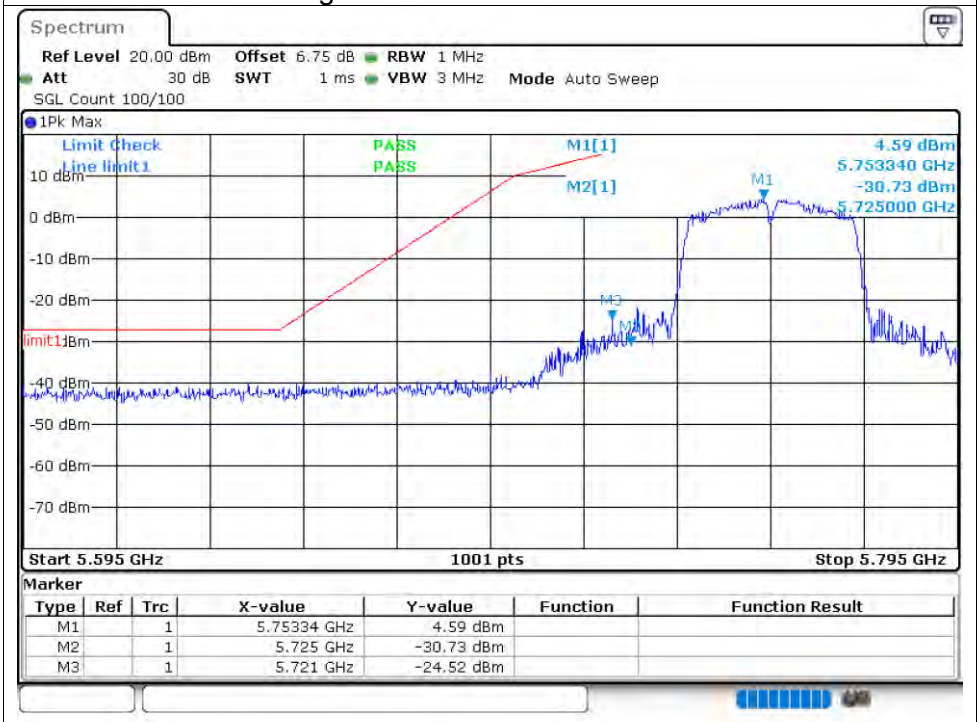
Band Edge NVNT ac20 5745MHz Low Ant1



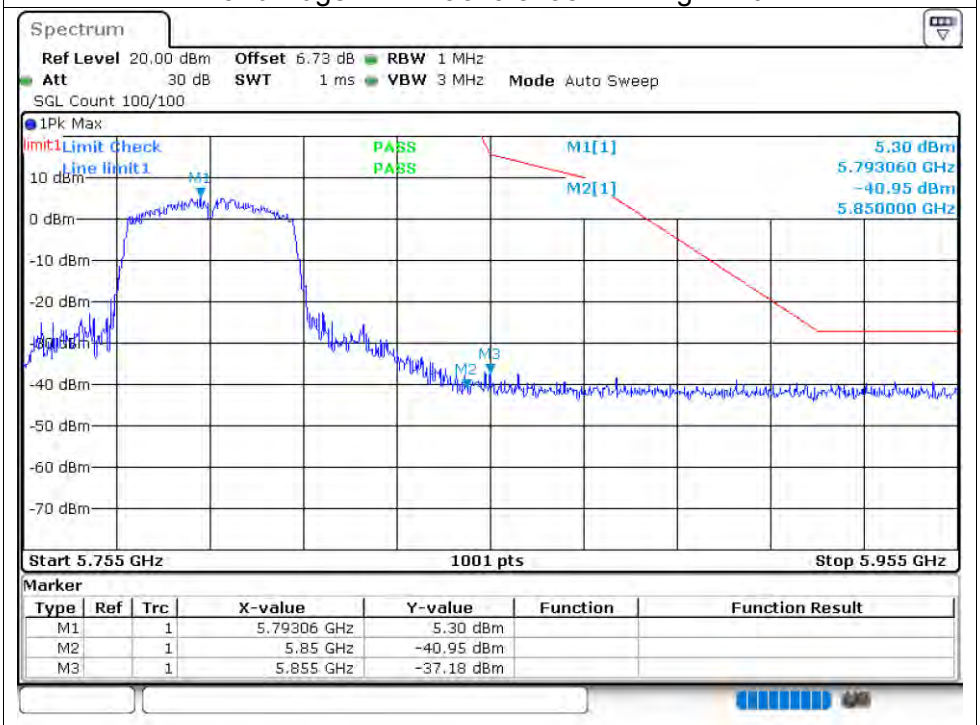
Band Edge NVNT ac20 5825MHz High Ant1



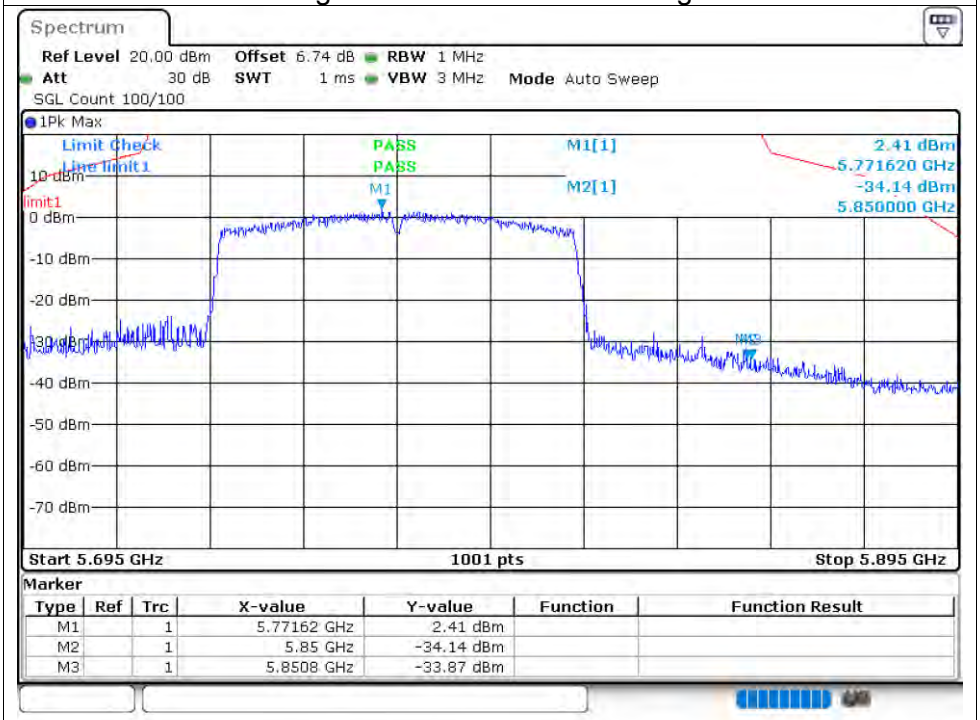
Band Edge NVNT ac40 5755MHz Low Ant1



Band Edge NVNT ac40 5795MHz High Ant1



Band Edge NVNT ac80 5775MHz High Ant1

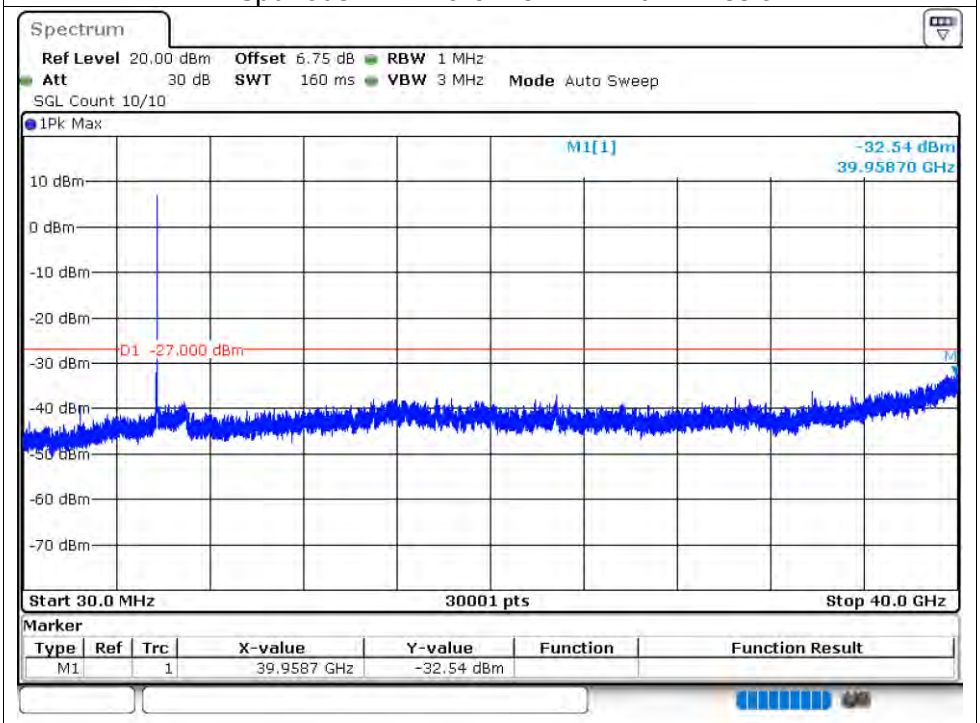


5.7 CONDUCTED RF SPURIOUS EMISSION

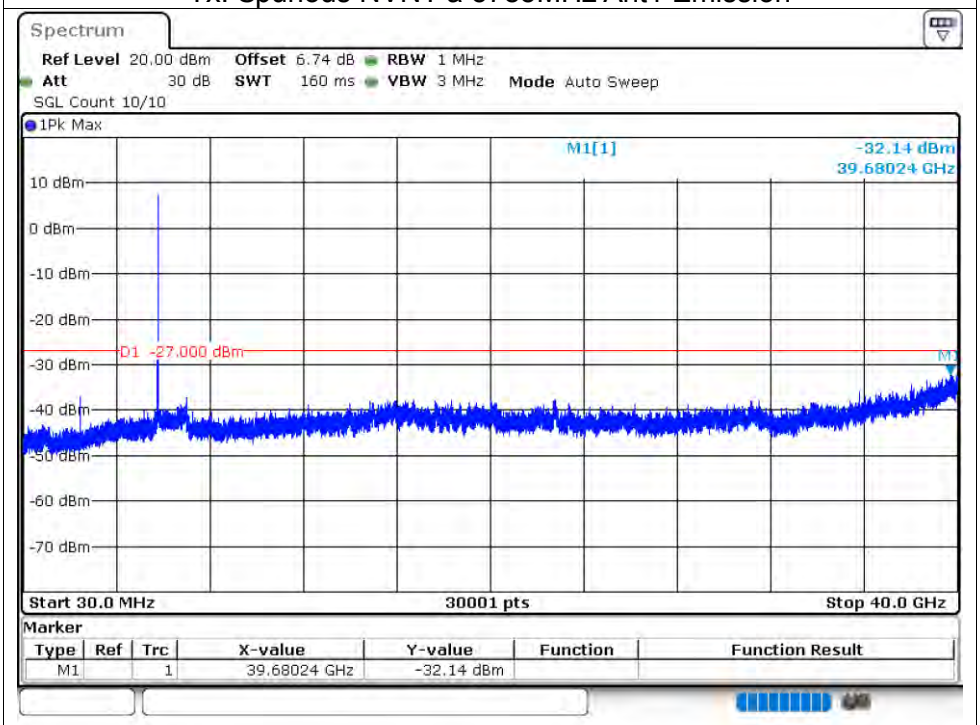
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5745	Ant1	-32.53	-27	Pass
NVNT	a	5785	Ant1	-32.14	-27	Pass
NVNT	a	5825	Ant1	-31.28	-27	Pass
NVNT	n20	5745	Ant1	-31.43	-27	Pass
NVNT	n20	5785	Ant1	-32.6	-27	Pass
NVNT	n20	5825	Ant1	-32.09	-27	Pass
NVNT	n40	5755	Ant1	-32.47	-27	Pass
NVNT	n40	5795	Ant1	-31.73	-27	Pass
NVNT	ac20	5745	Ant1	-32.42	-27	Pass
NVNT	ac20	5785	Ant1	-32	-27	Pass
NVNT	ac20	5825	Ant1	-31.59	-27	Pass
NVNT	ac40	5755	Ant1	-31.62	-27	Pass
NVNT	ac40	5795	Ant1	-32.17	-27	Pass
NVNT	ac80	5775	Ant1	-31.96	-27	Pass

Test Graphs

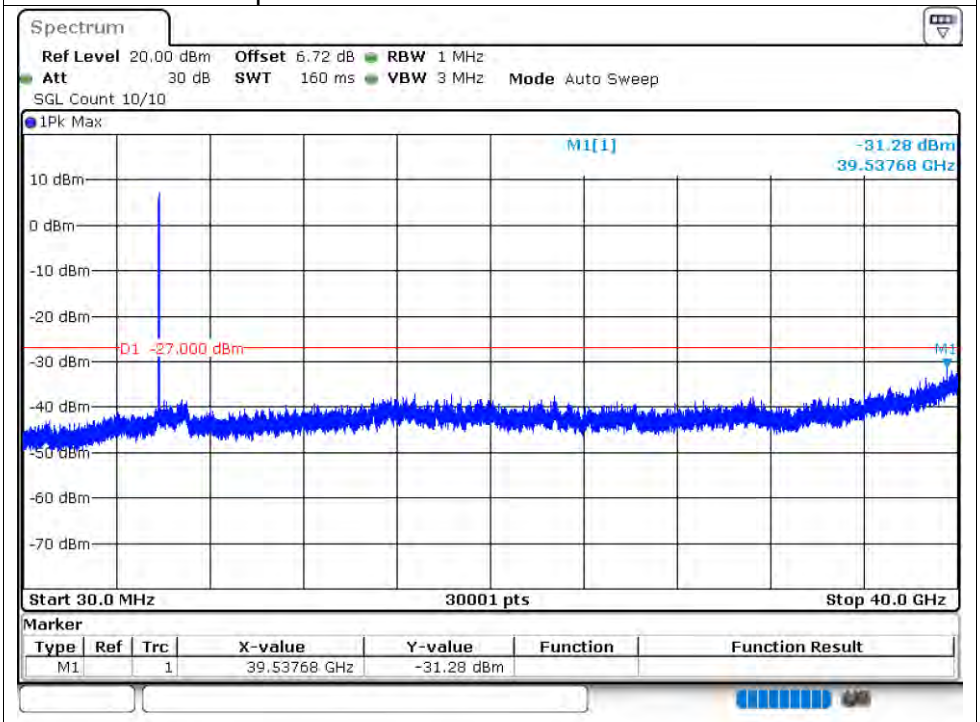
Tx. Spurious NVNT a 5745MHz Ant1 Emission



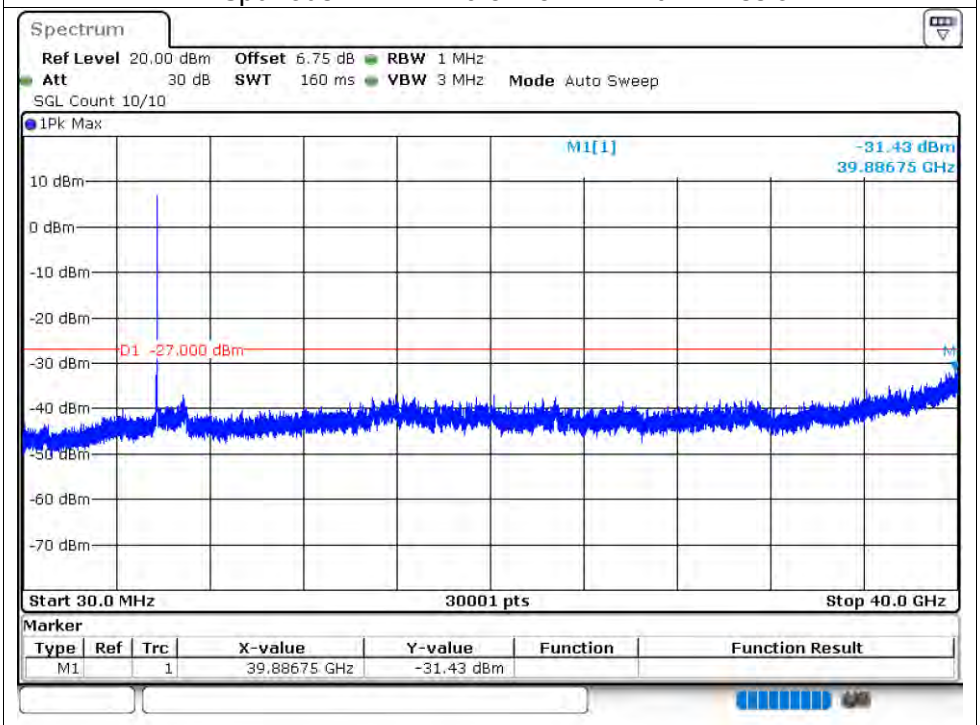
Tx. Spurious NVNT a 5785MHz Ant1 Emission



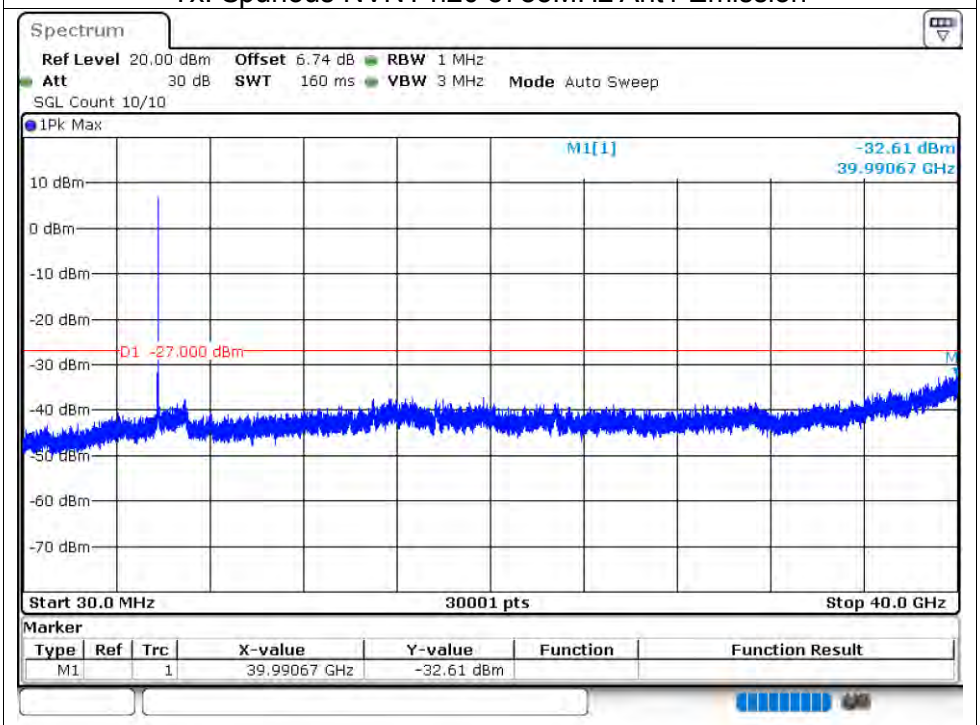
Tx. Spurious NVNT a 5825MHz Ant1 Emission



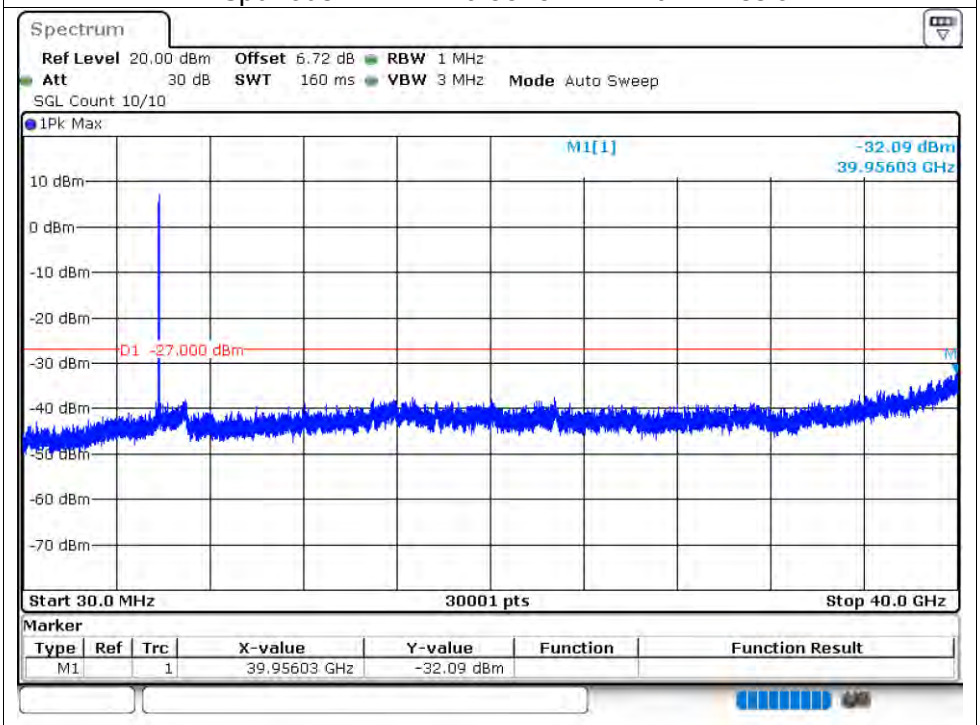
Tx. Spurious NVNT n20 5745MHz Ant1 Emission



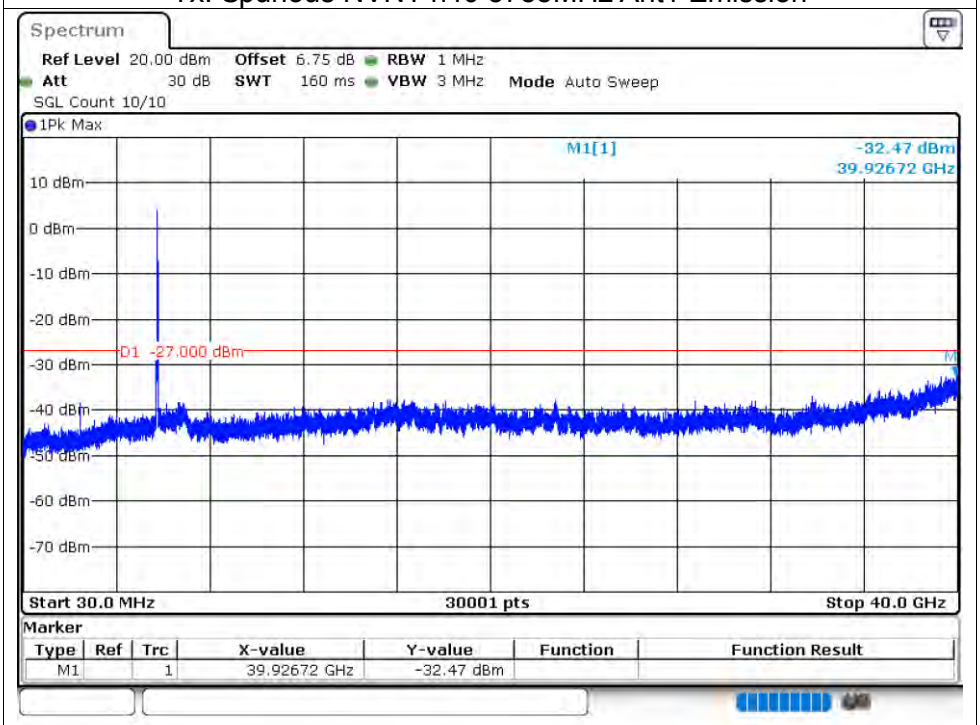
Tx. Spurious NVNT n20 5785MHz Ant1 Emission



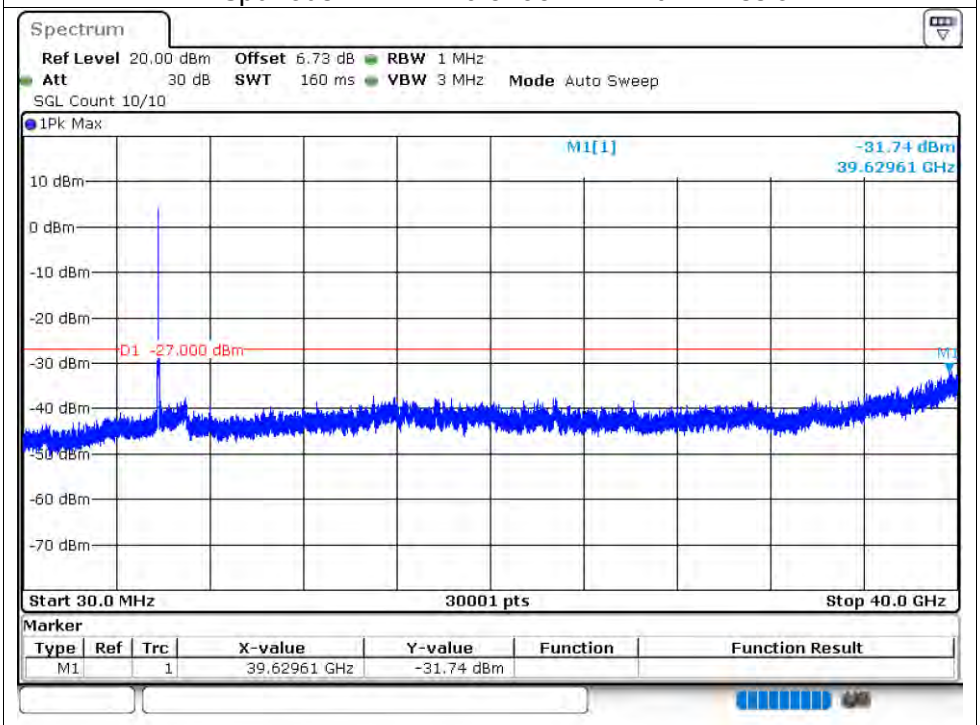
Tx. Spurious NVNT n20 5825MHz Ant1 Emission



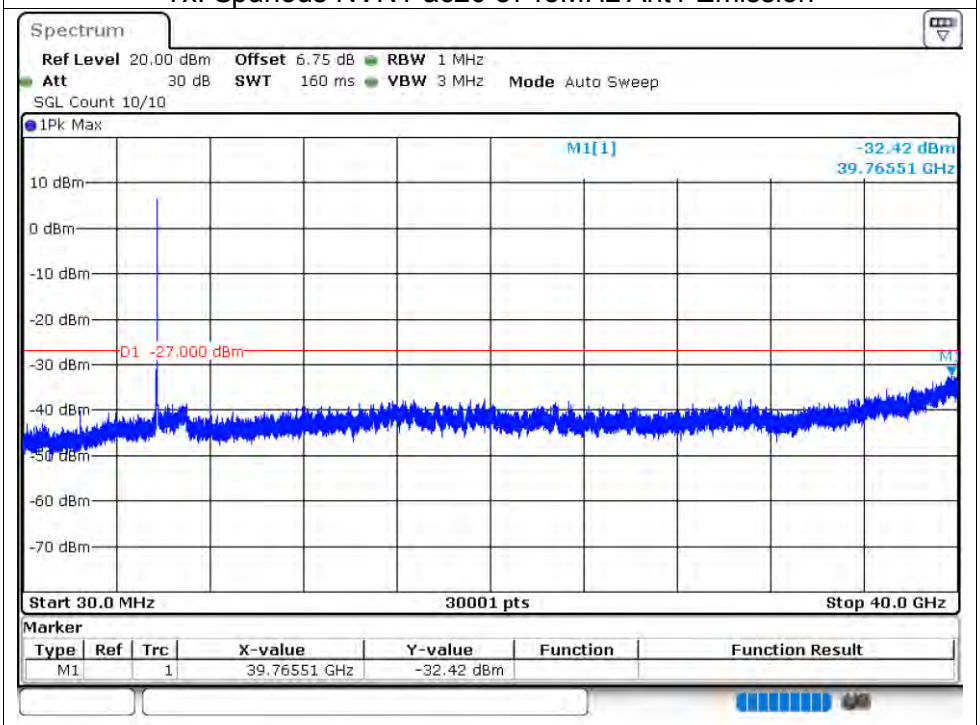
Tx. Spurious NVNT n40 5755MHz Ant1 Emission



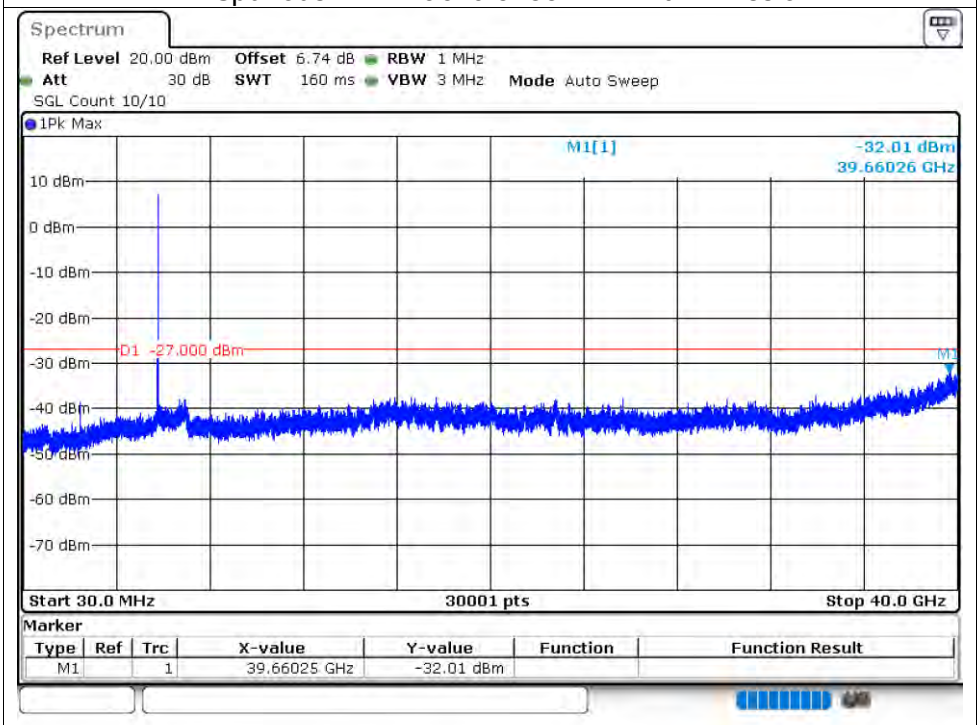
Tx. Spurious NVNT n40 5795MHz Ant1 Emission



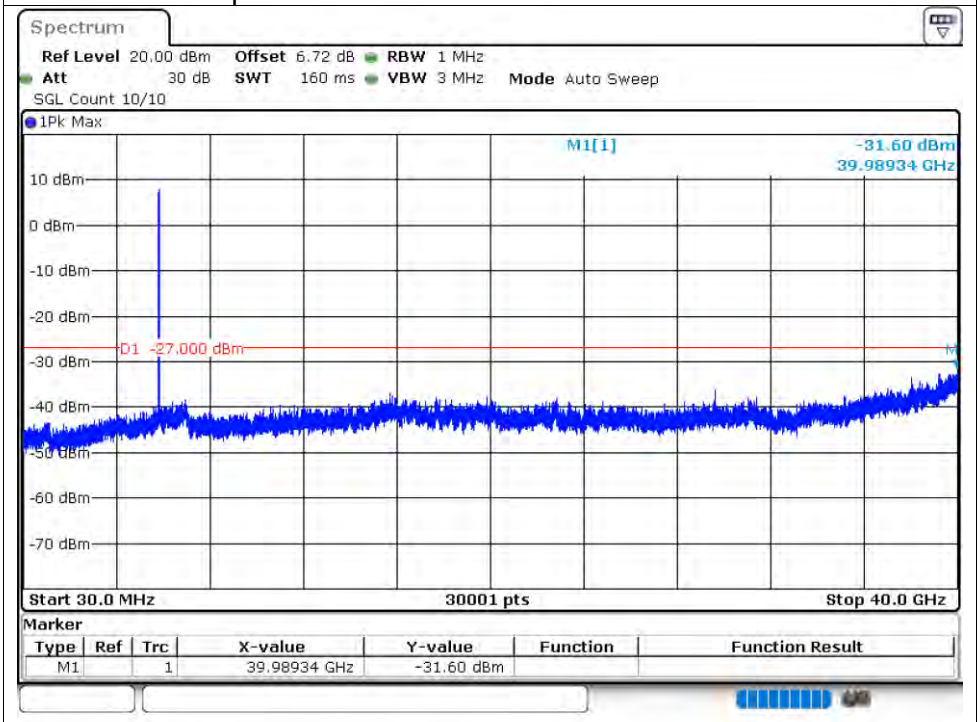
Tx. Spurious NVNT ac20 5745MHz Ant1 Emission



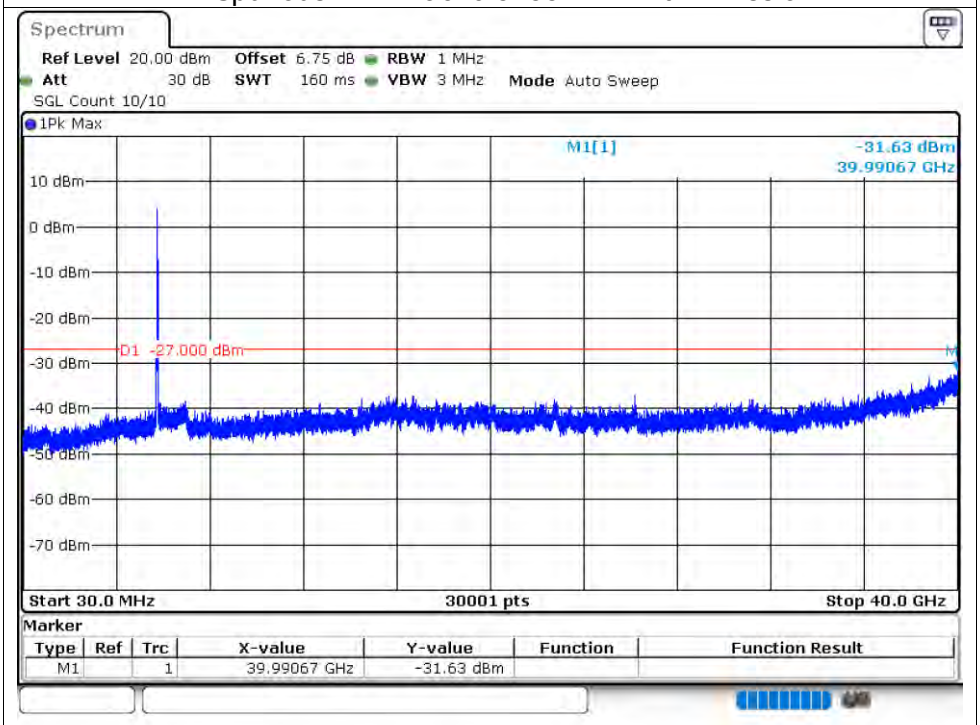
Tx. Spurious NVNT ac20 5785MHz Ant1 Emission



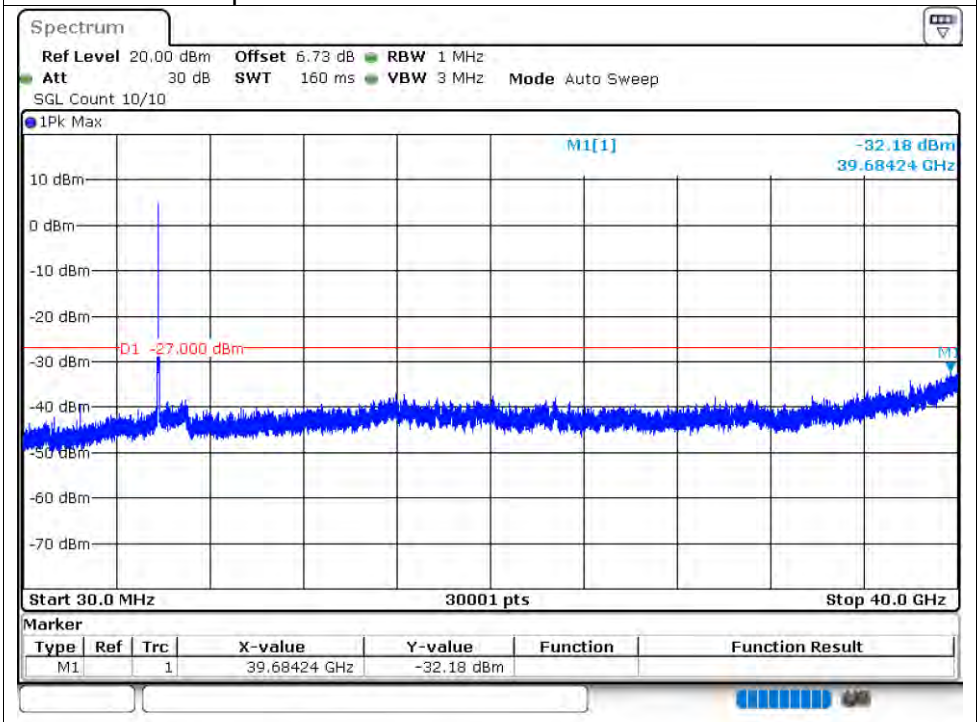
Tx. Spurious NVNT ac20 5825MHz Ant1 Emission



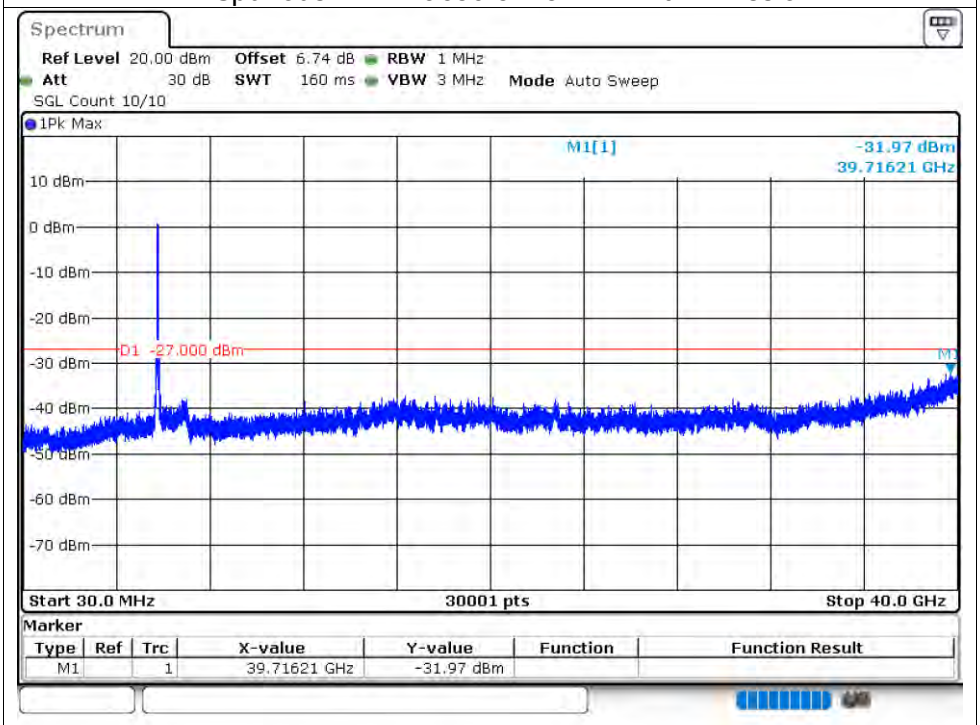
Tx. Spurious NVNT ac40 5755MHz Ant1 Emission



Tx. Spurious NVNT ac40 5795MHz Ant1 Emission



Tx. Spurious NVNT ac80 5775MHz Ant1 Emission



END OF REPORT