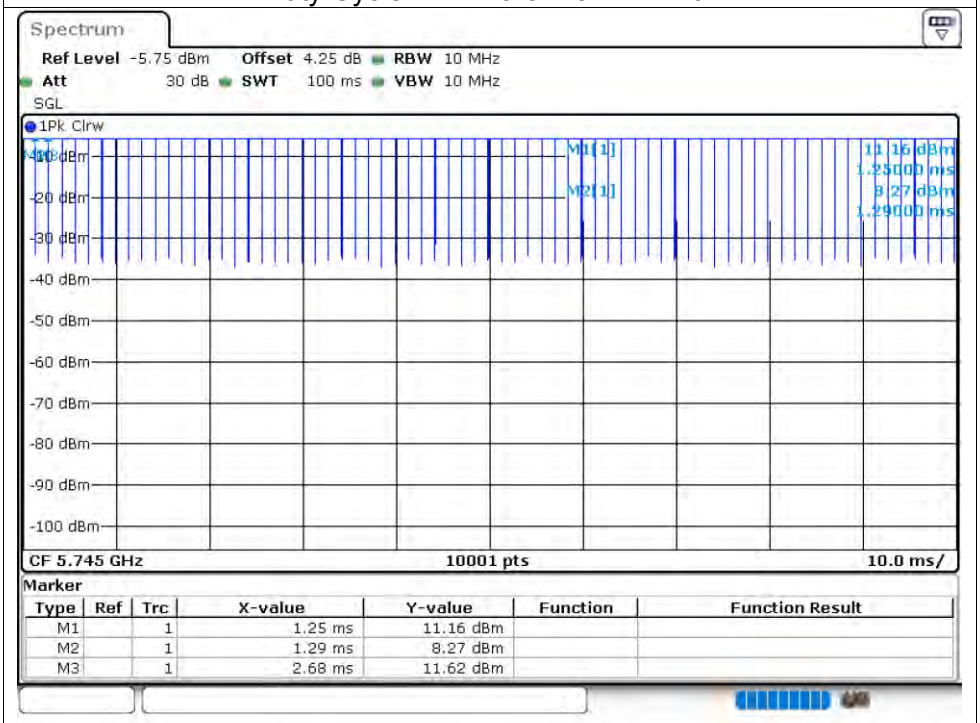
5.2 WIFI 5.8G:

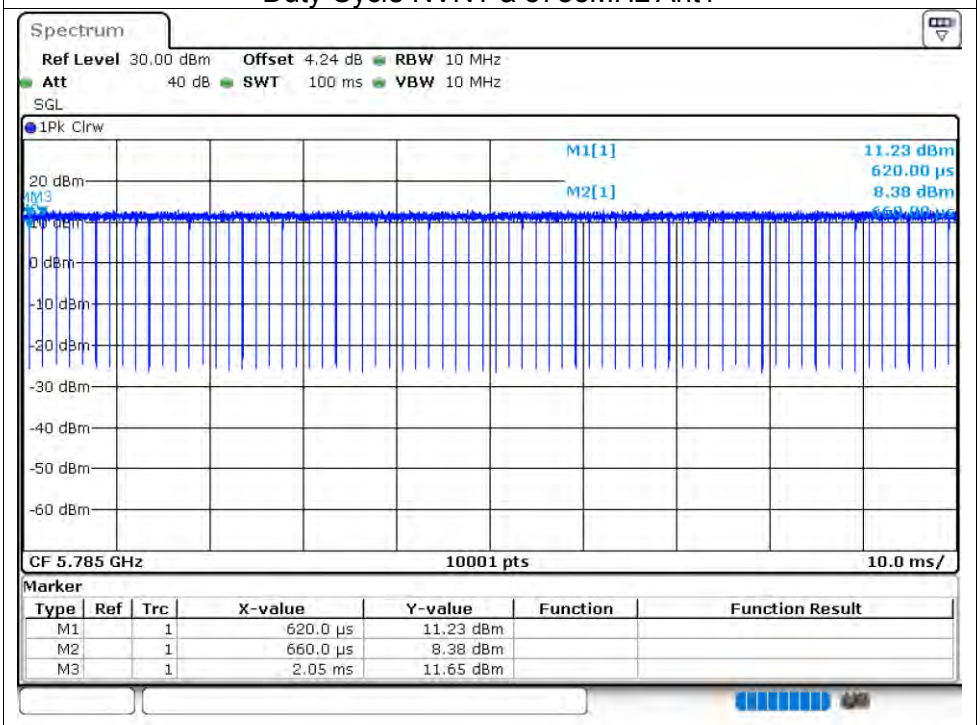
5.2.1 **DUTY CYCLE**

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	98.19	0.08	0.72
NVNT	a	5785	Ant1	98.15	0.08	0.72
NVNT	a	5825	Ant1	98.2	0.08	0.72
NVNT	n20	5745	Ant1	98.06	0.09	0.77
NVNT	n20	5785	Ant1	98.05	0.09	0.77
NVNT	n20	5825	Ant1	100	0	0
NVNT	n40	5755	Ant1	96.36	0.16	1.54
NVNT	n40	5795	Ant1	96.38	0.16	1.54
NVNT	ac20	5745	Ant1	98.07	0.08	0.76
NVNT	ac20	5785	Ant1	98.09	0.08	0.76
NVNT	ac20	5825	Ant1	98.08	0.08	0.76
NVNT	ac40	5755	Ant1	96.35	0.16	1.54
NVNT	ac40	5795	Ant1	96.38	0.16	1.54
NVNT	ac80	5775	Ant1	90.58	0.43	3.23

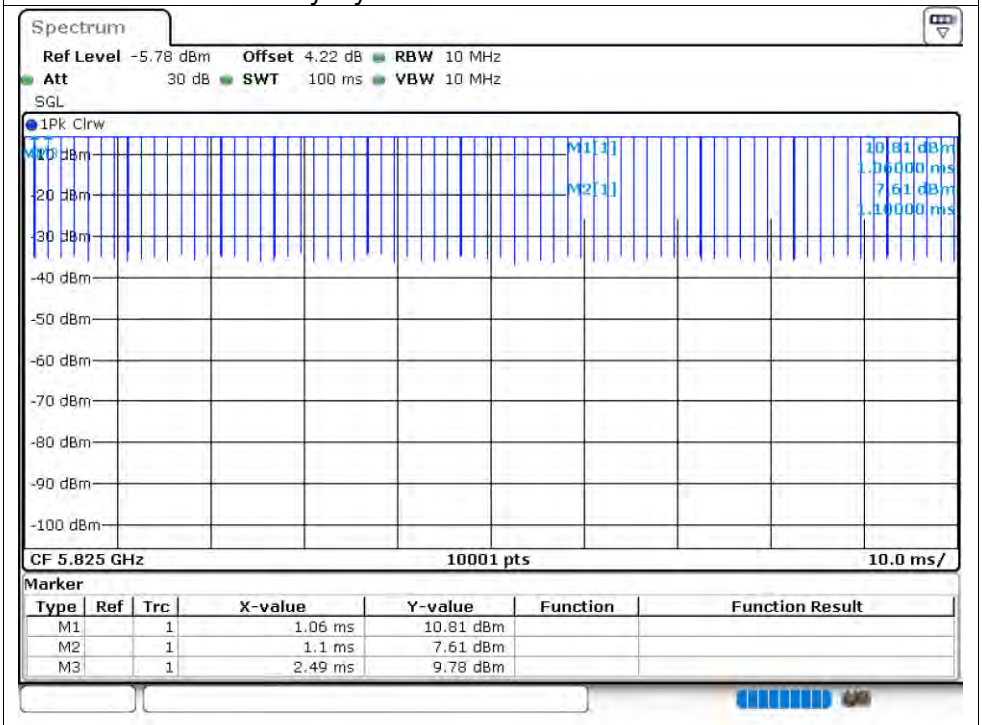
Test Graphs
Duty Cycle NVNT a 5745MHz Ant1



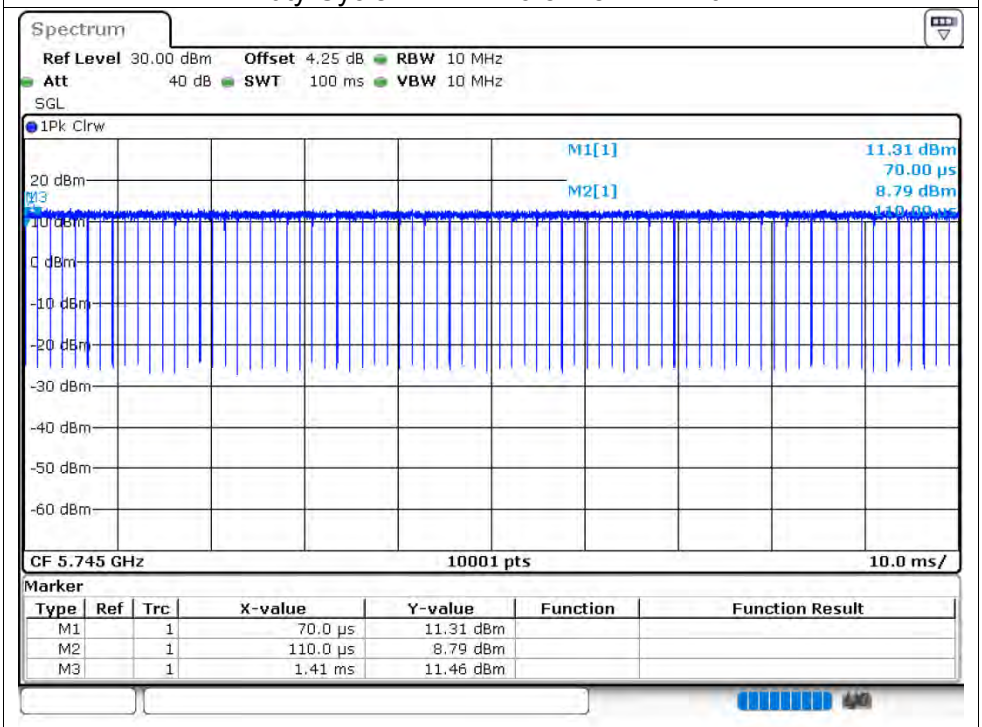
Duty Cycle NVNT a 5785MHz Ant1



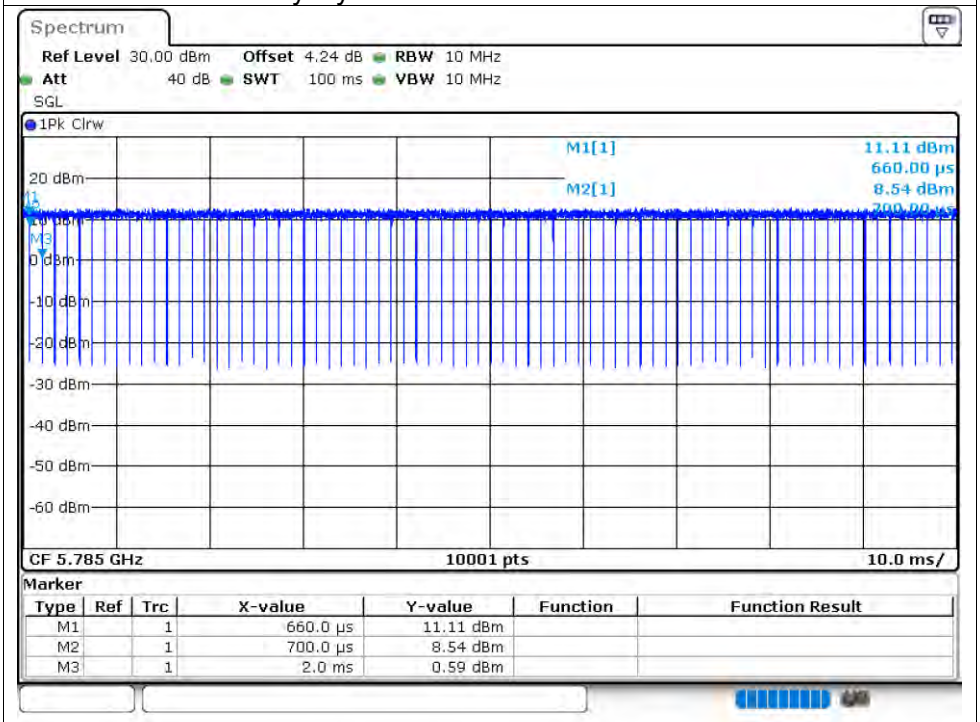
Duty Cycle NVNT a 5825MHz Ant1



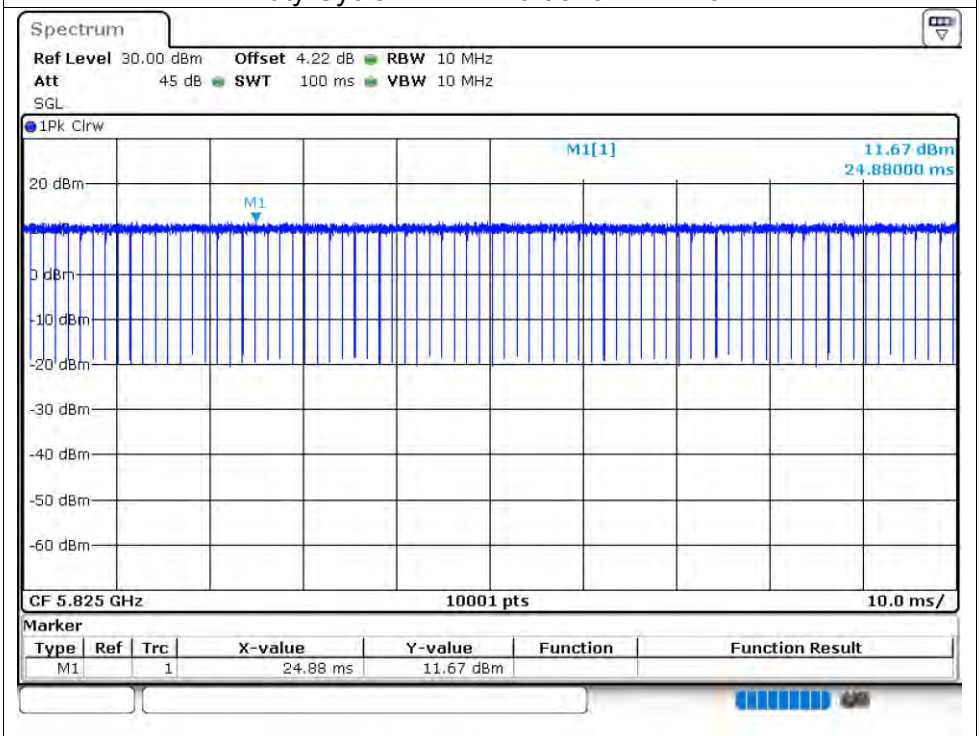
Duty Cycle NVNT n20 5745MHz Ant1



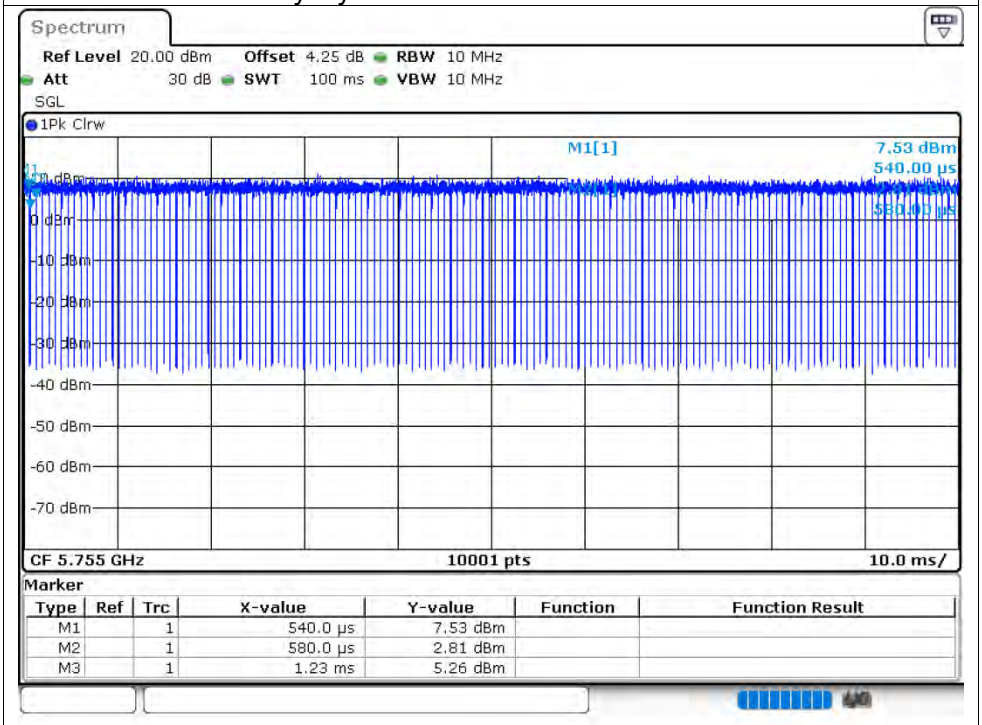
Duty Cycle NVNT n20 5785MHz Ant1



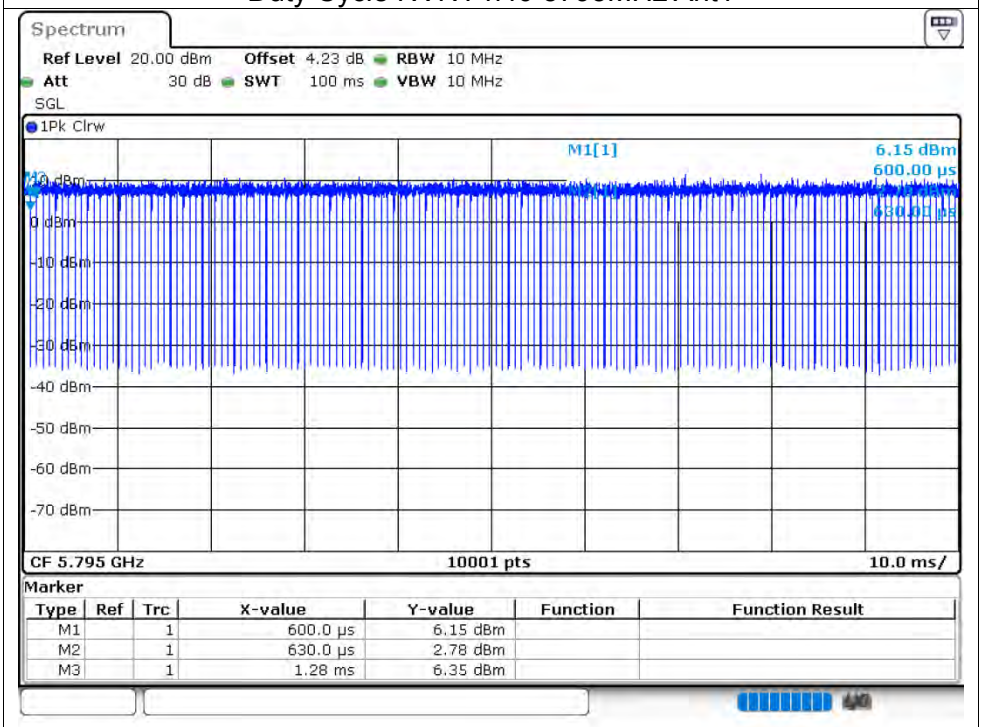
Duty Cycle NVNT n20 5825MHz Ant1



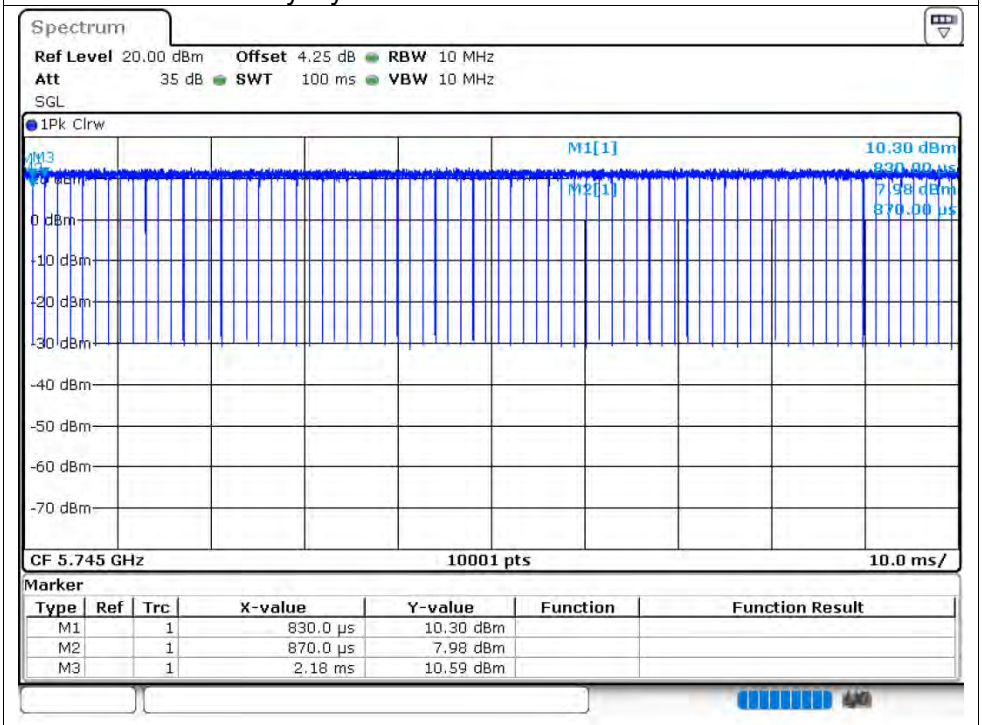
Duty Cycle NVNT n40 5755MHz Ant1



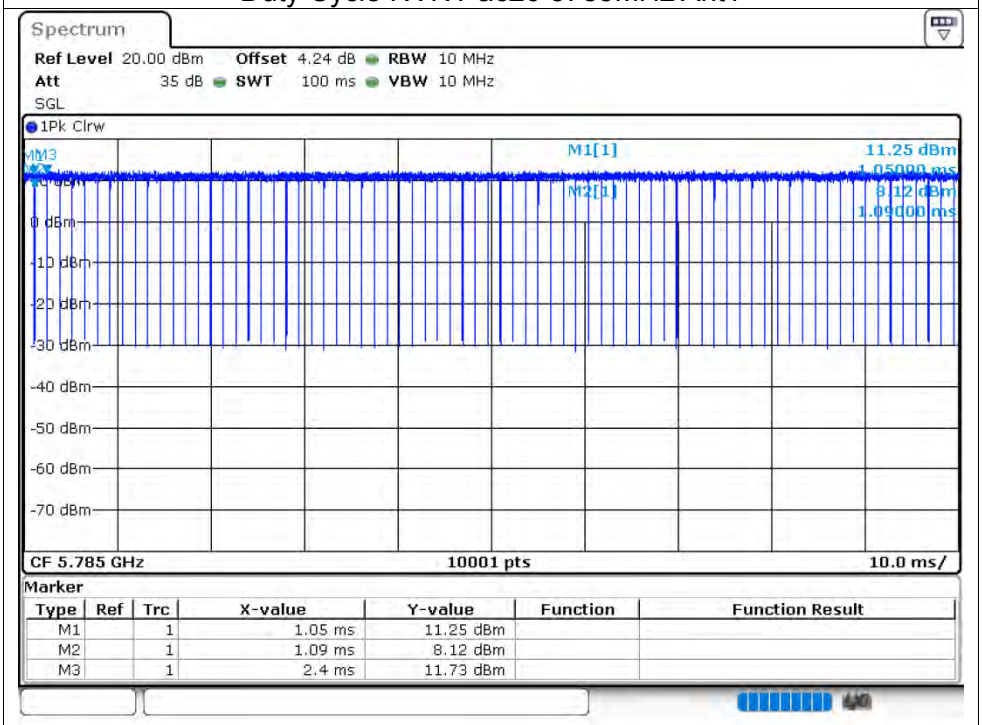
Duty Cycle NVNT n40 5795MHz Ant1



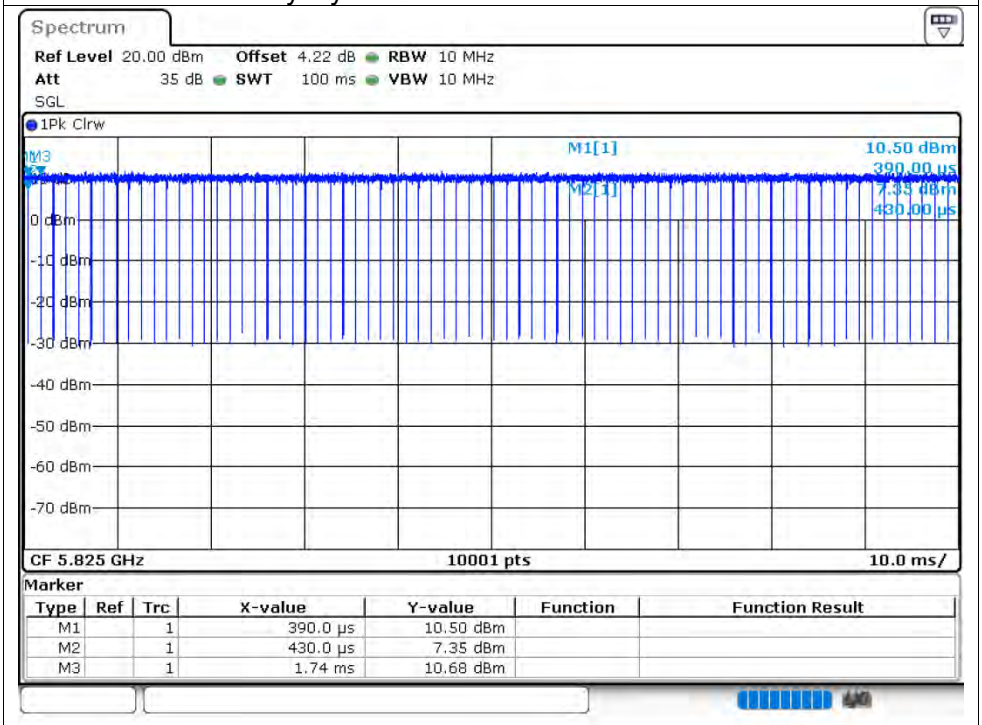
Duty Cycle NVNT ac20 5745MHz Ant1



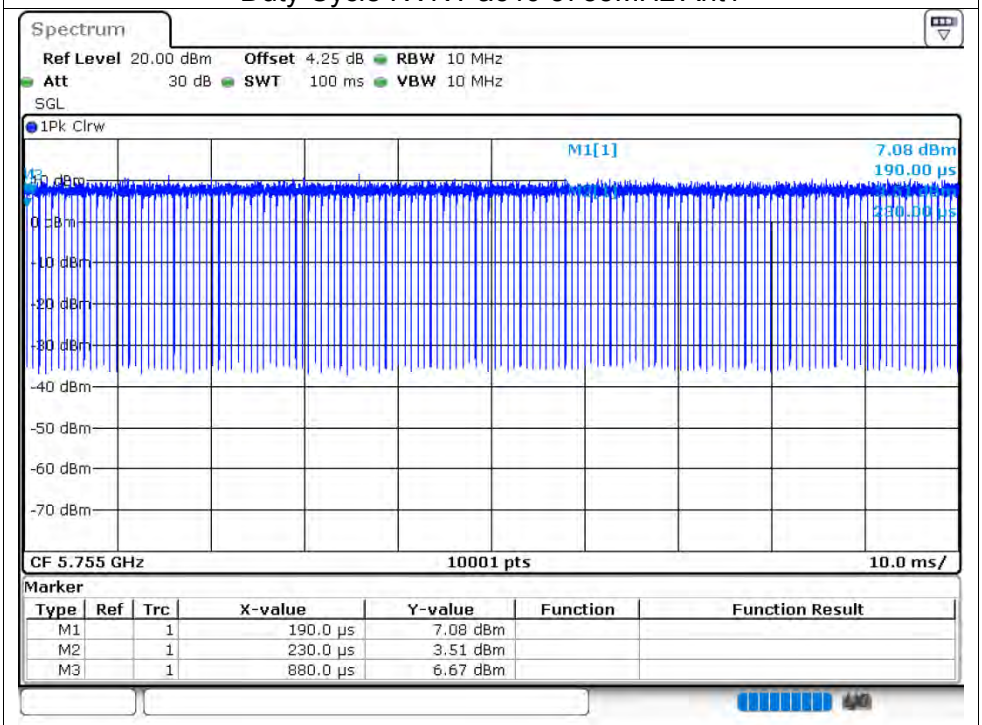
Duty Cycle NVNT ac20 5785MHz Ant1



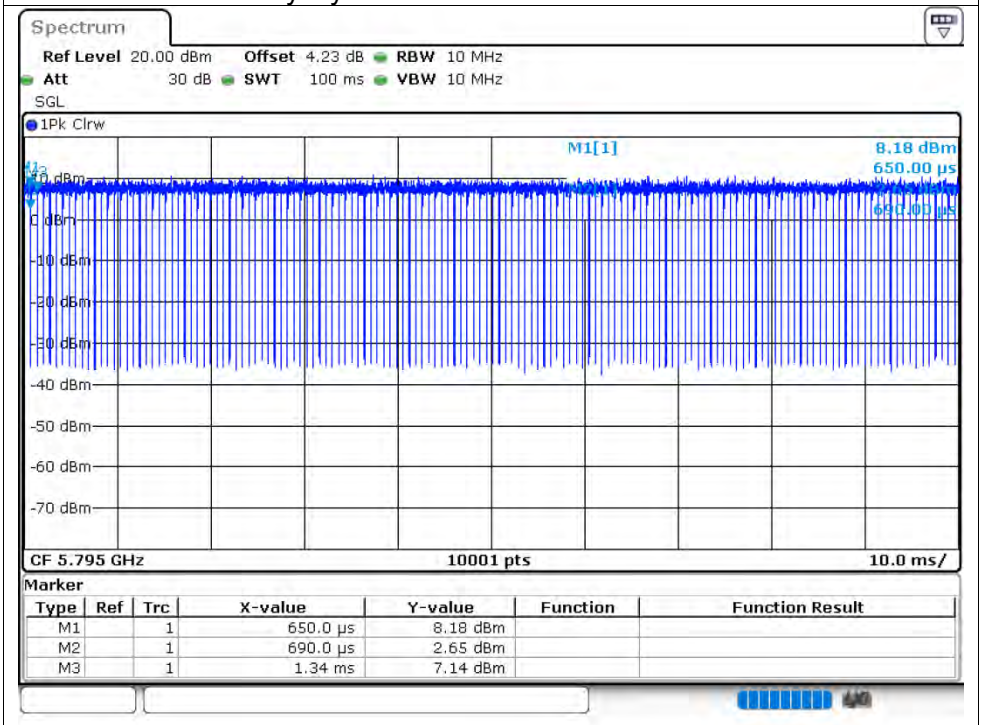
Duty Cycle NVNT ac20 5825MHz Ant1



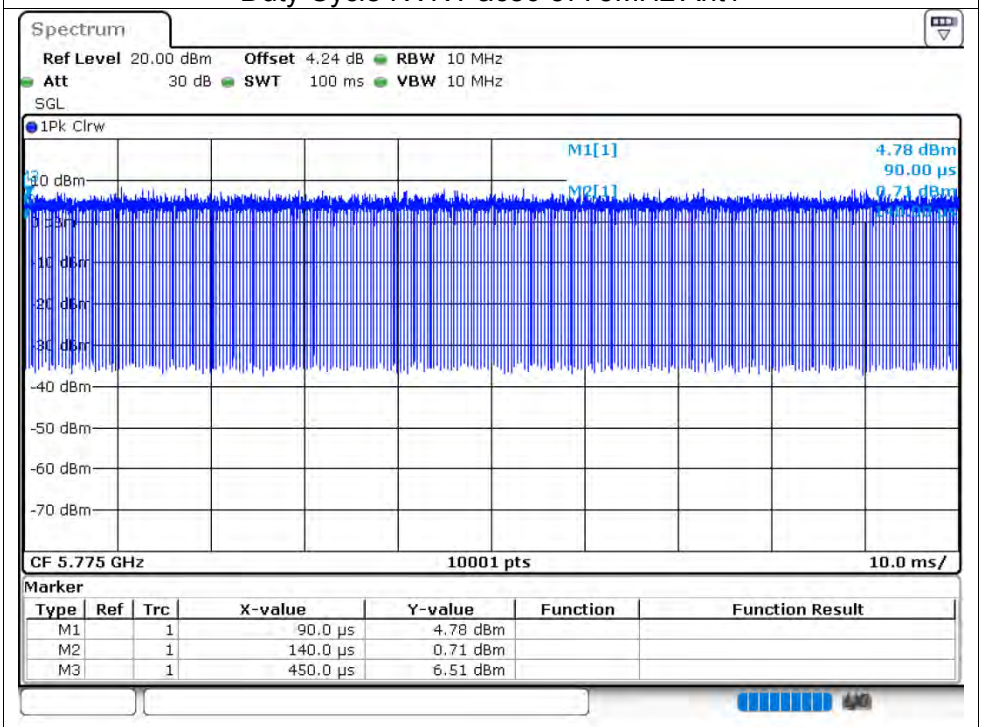
Duty Cycle NVNT ac40 5755MHz Ant1



Duty Cycle NVNT ac40 5795MHz Ant1



Duty Cycle NVNT ac80 5775MHz Ant1



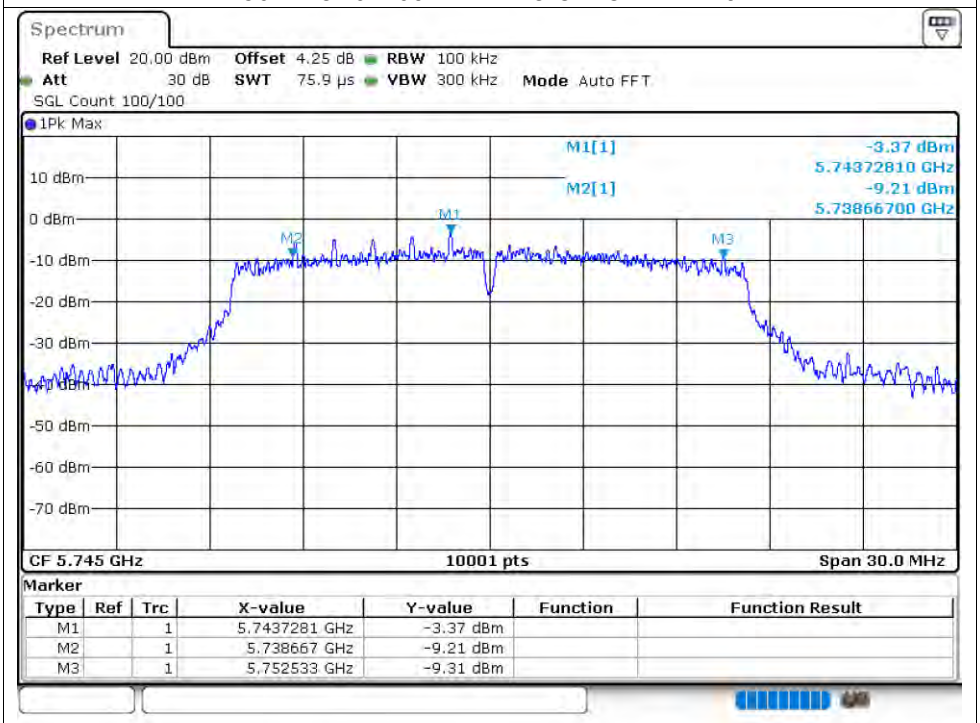
5.2.2 **MAXIMUM CONDUCTED OUTPUT POWER**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	8	30	Pass
NVNT	a	5785	Ant1	6.92	30	Pass
NVNT	a	5825	Ant1	6.85	30	Pass
NVNT	n20	5745	Ant1	8.3	30	Pass
NVNT	n20	5785	Ant1	6.95	30	Pass
NVNT	n20	5825	Ant1	6.72	30	Pass
NVNT	n40	5755	Ant1	5.63	30	Pass
NVNT	n40	5795	Ant1	4.59	30	Pass
NVNT	ac20	5745	Ant1	7.98	30	Pass
NVNT	ac20	5785	Ant1	6.82	30	Pass
NVNT	ac20	5825	Ant1	6.38	30	Pass
NVNT	ac40	5755	Ant1	5.58	30	Pass
NVNT	ac40	5795	Ant1	4.68	30	Pass
NVNT	ac80	5775	Ant1	5.19	30	Pass

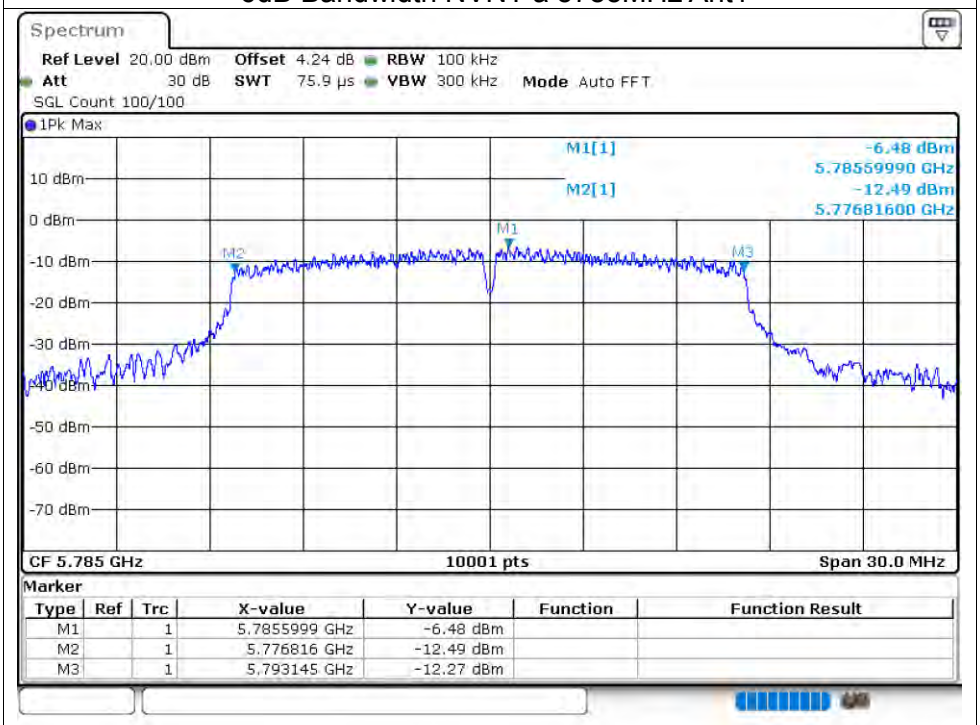
5.2.2 **-6DB BANDWIDTH**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	13.866	0.5	Pass
NVNT	a	5785	Ant1	16.329	0.5	Pass
NVNT	a	5825	Ant1	16.323	0.5	Pass
NVNT	n20	5745	Ant1	17.538	0.5	Pass
NVNT	n20	5785	Ant1	17.574	0.5	Pass
NVNT	n20	5825	Ant1	17.148	0.5	Pass
NVNT	n40	5755	Ant1	35.034	0.5	Pass
NVNT	n40	5795	Ant1	35.028	0.5	Pass
NVNT	ac20	5745	Ant1	12.525	0.5	Pass
NVNT	ac20	5785	Ant1	14.418	0.5	Pass
NVNT	ac20	5825	Ant1	16.932	0.5	Pass
NVNT	ac40	5755	Ant1	30.066	0.5	Pass
NVNT	ac40	5795	Ant1	35.1	0.5	Pass
NVNT	ac80	5775	Ant1	75.012	0.5	Pass

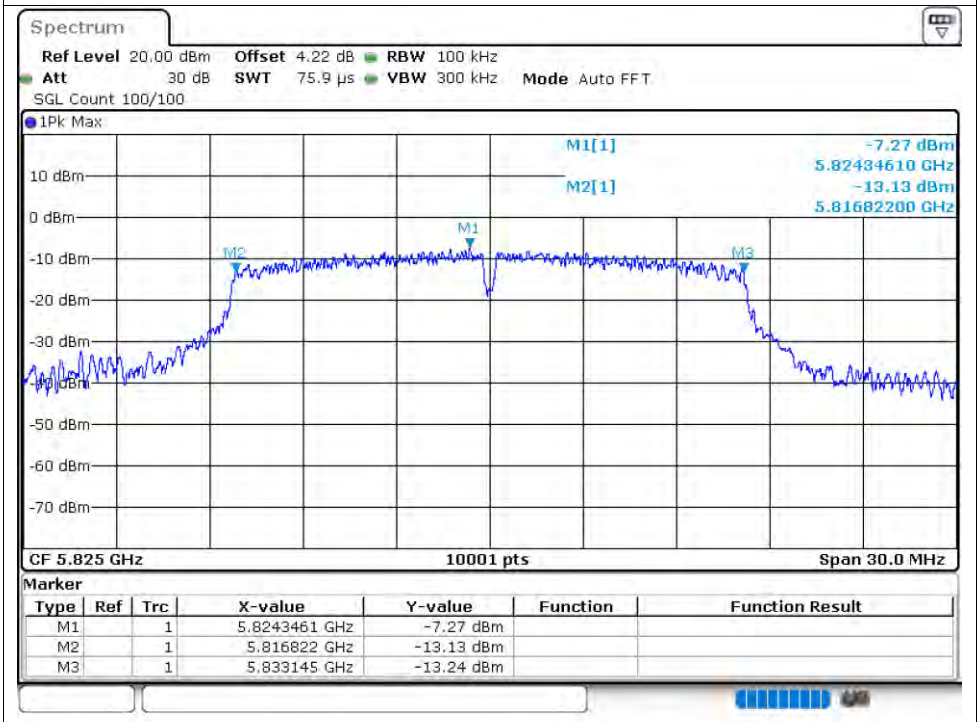
Test Graphs
-6dB Bandwidth NVNT a 5745MHz Ant1



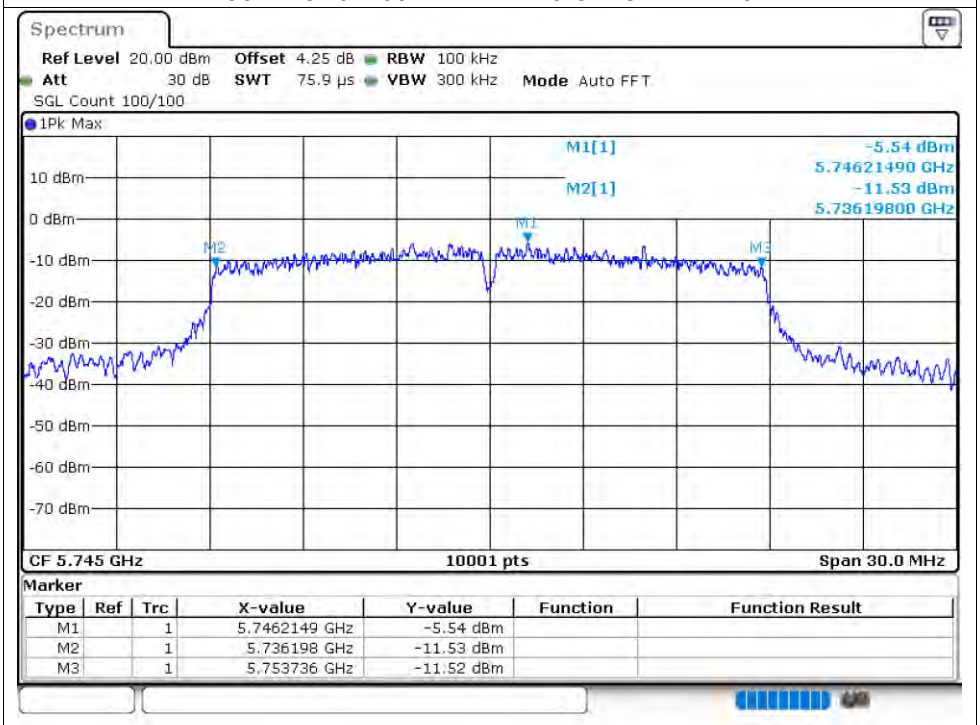
-6dB Bandwidth NVNT a 5785MHz Ant1



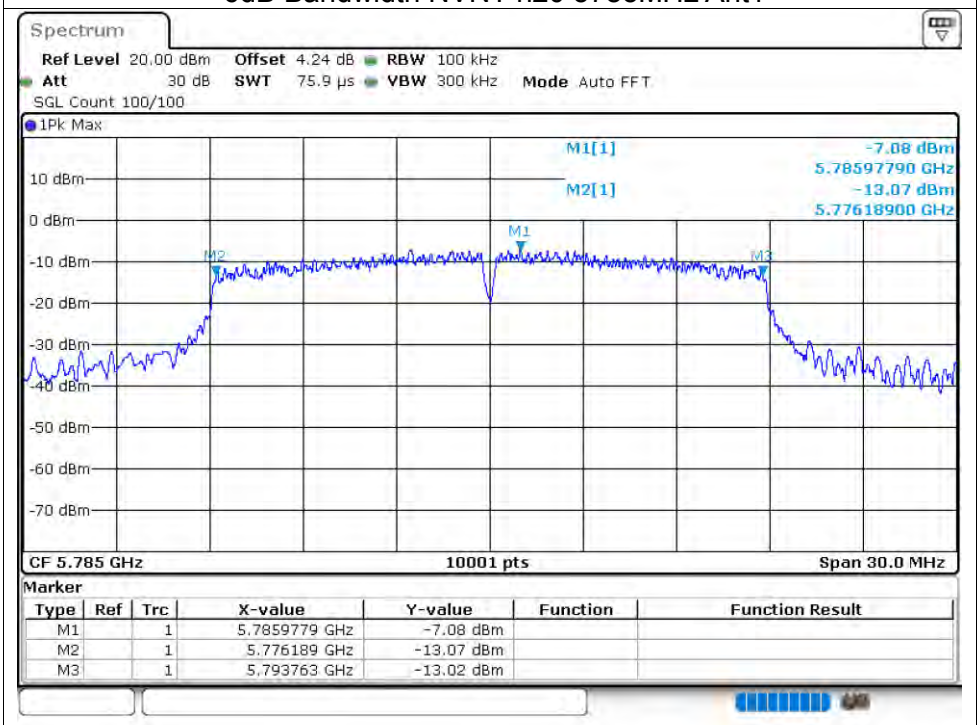
-6dB Bandwidth NVNT a 5825MHz Ant1



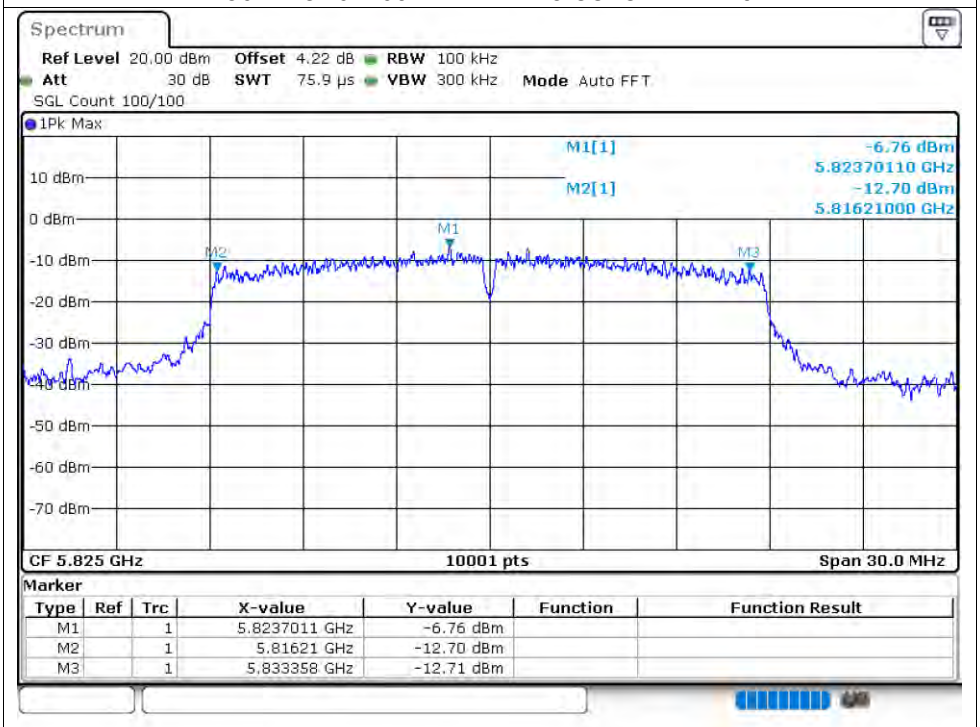
-6dB Bandwidth NVNT n20 5745MHz Ant1



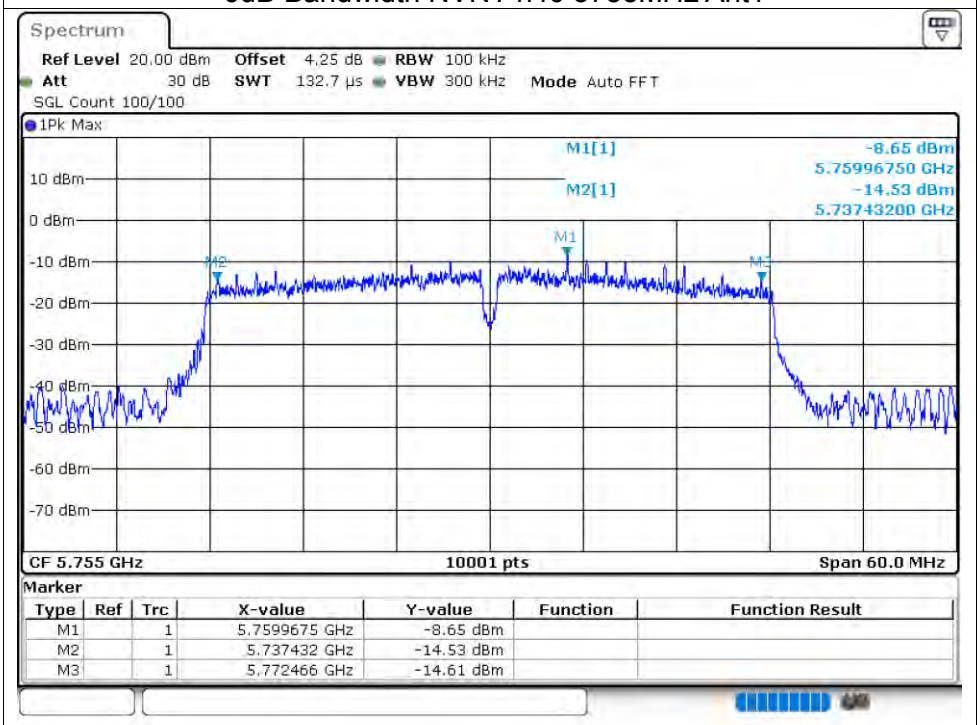
-6dB Bandwidth NVNT n20 5785MHz Ant1



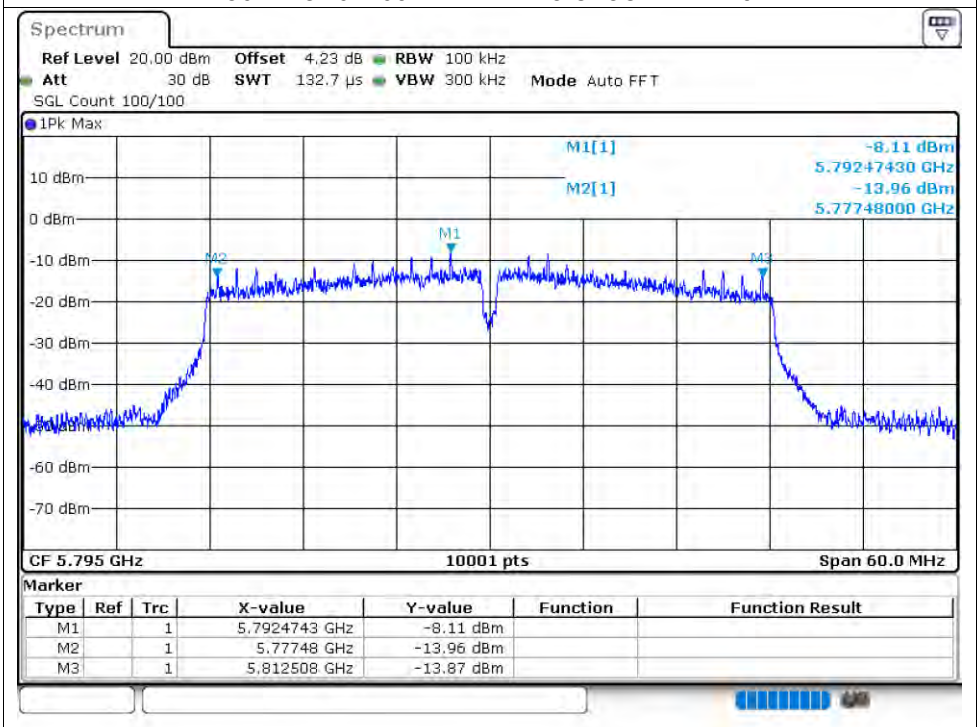
-6dB Bandwidth NVNT n20 5825MHz Ant1



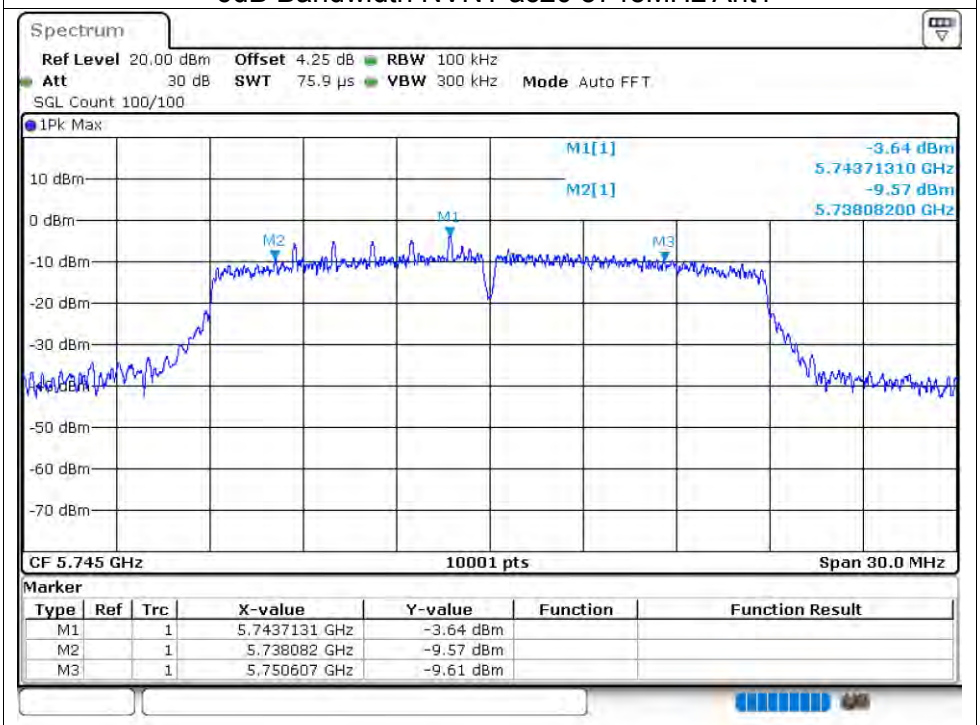
-6dB Bandwidth NVNT n40 5755MHz Ant1



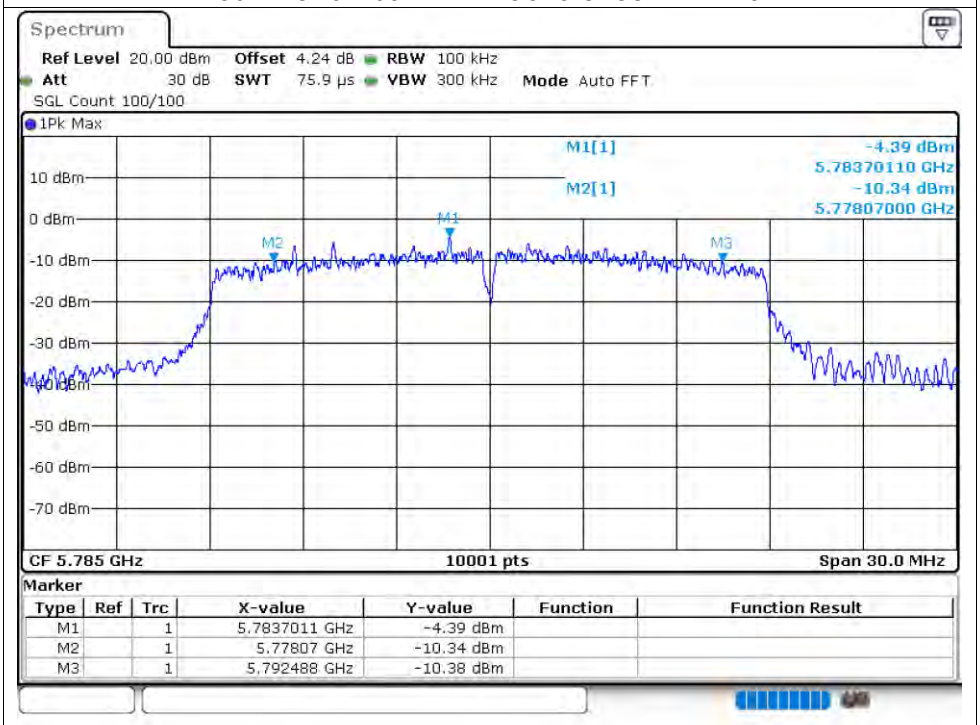
-6dB Bandwidth NVNT n40 5795MHz Ant1



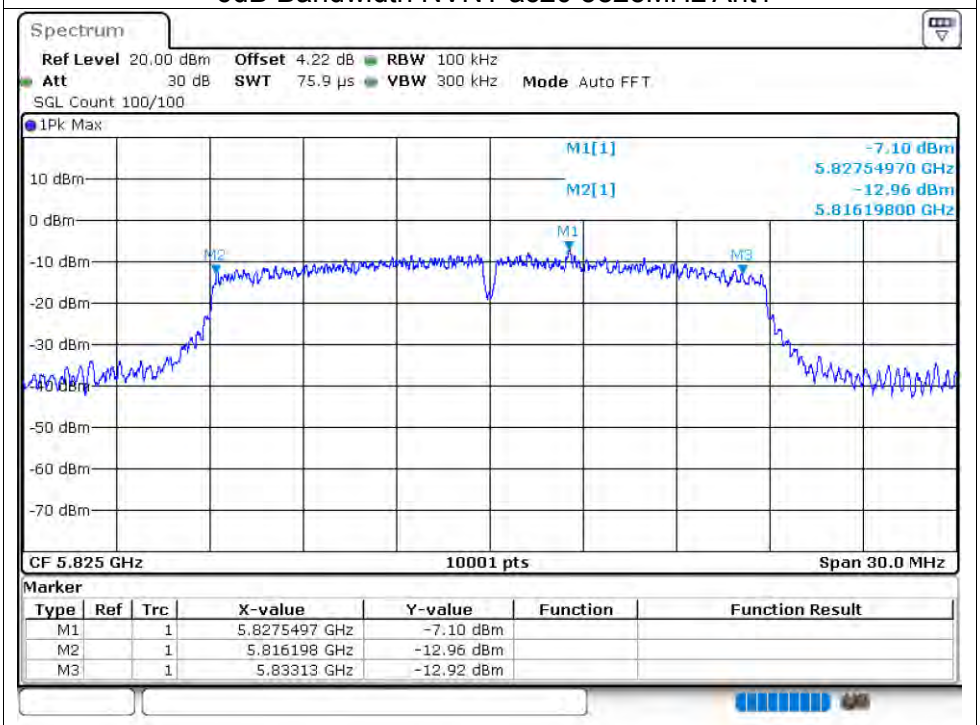
-6dB Bandwidth NVNT ac20 5745MHz Ant1



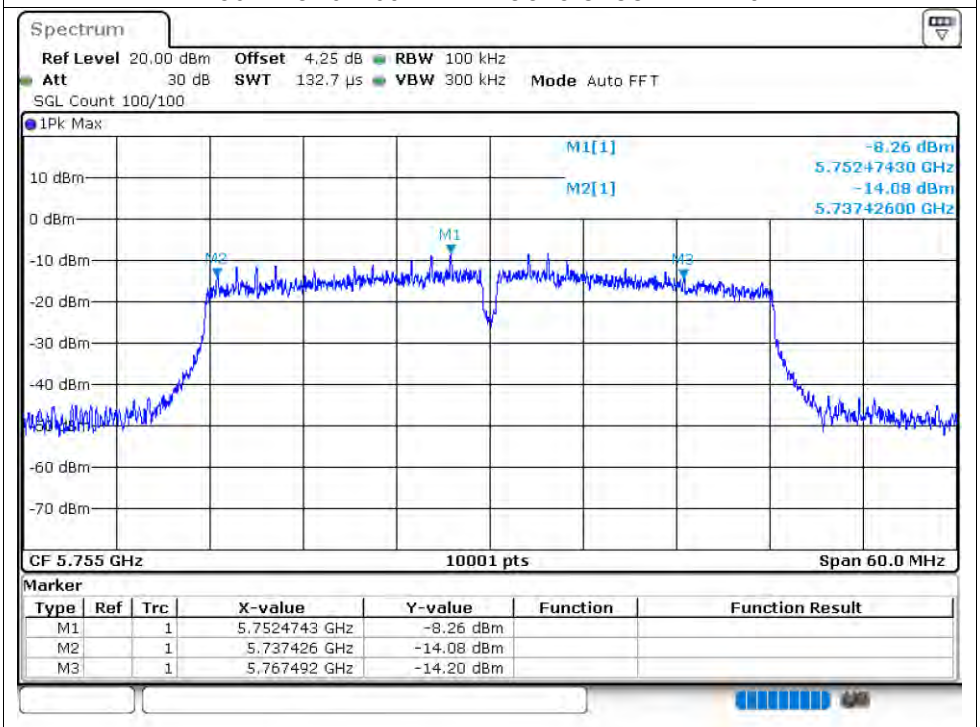
-6dB Bandwidth NVNT ac20 5785MHz Ant1



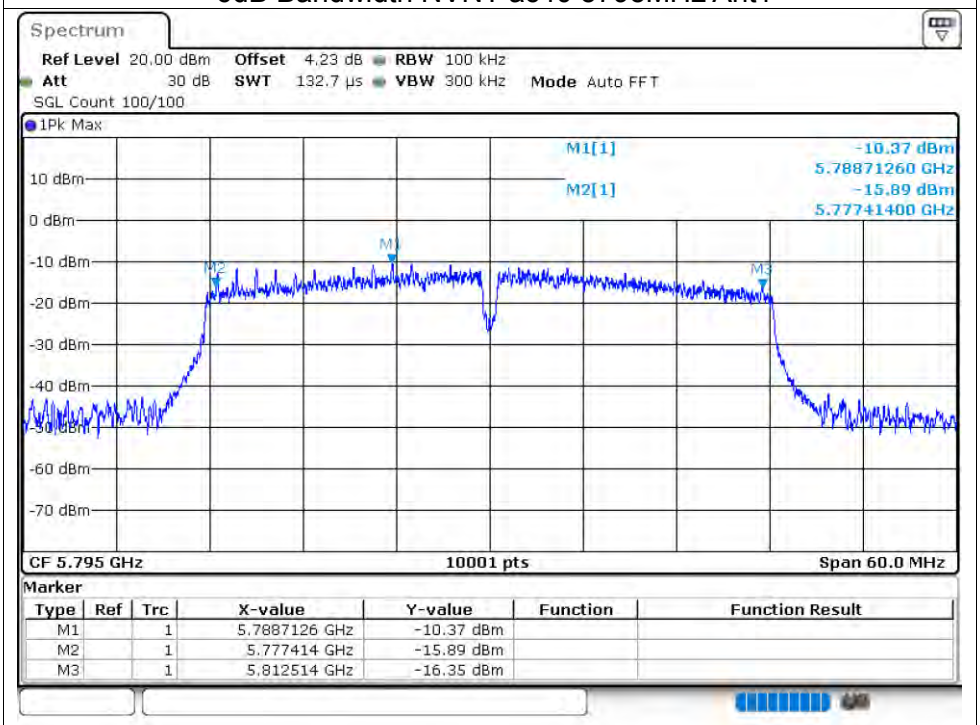
-6dB Bandwidth NVNT ac20 5825MHz Ant1



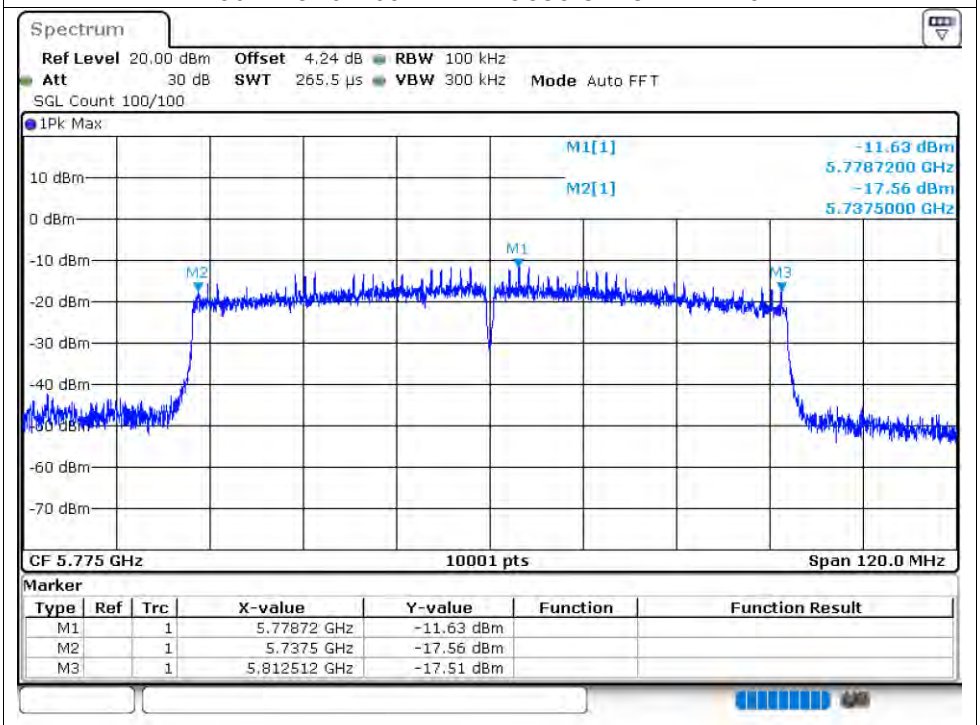
-6dB Bandwidth NVNT ac40 5755MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant1



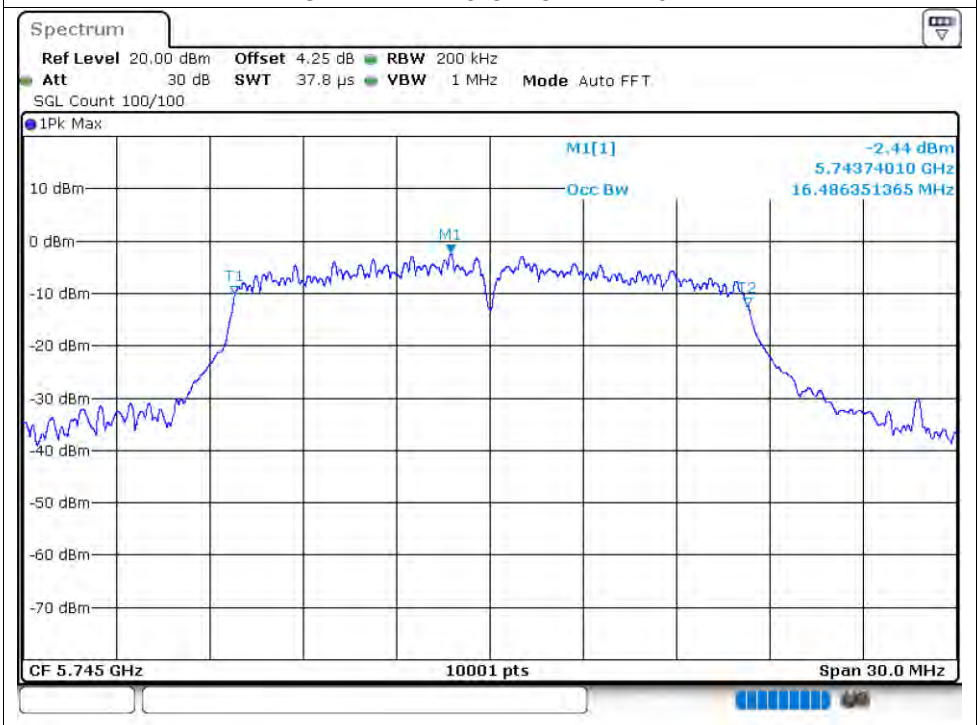
-6dB Bandwidth NVNT ac80 5775MHz Ant1



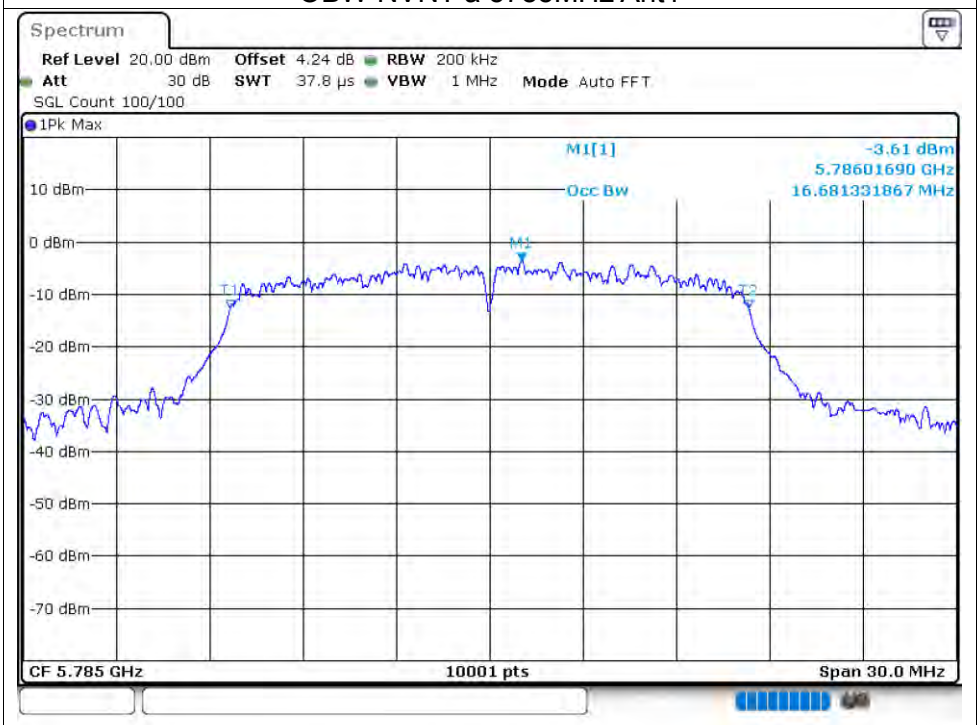
5.2.1 **OCCUPIED CHANNEL BANDWIDTH**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.486
NVNT	a	5785	Ant1	16.681
NVNT	a	5825	Ant1	16.552
NVNT	n20	5745	Ant1	17.566
NVNT	n20	5785	Ant1	17.602
NVNT	n20	5825	Ant1	17.527
NVNT	n40	5755	Ant1	36.134
NVNT	n40	5795	Ant1	36.02
NVNT	ac20	5745	Ant1	17.62
NVNT	ac20	5785	Ant1	17.551
NVNT	ac20	5825	Ant1	17.602
NVNT	ac40	5755	Ant1	36.044
NVNT	ac40	5795	Ant1	35.972
NVNT	ac80	5775	Ant1	75.172

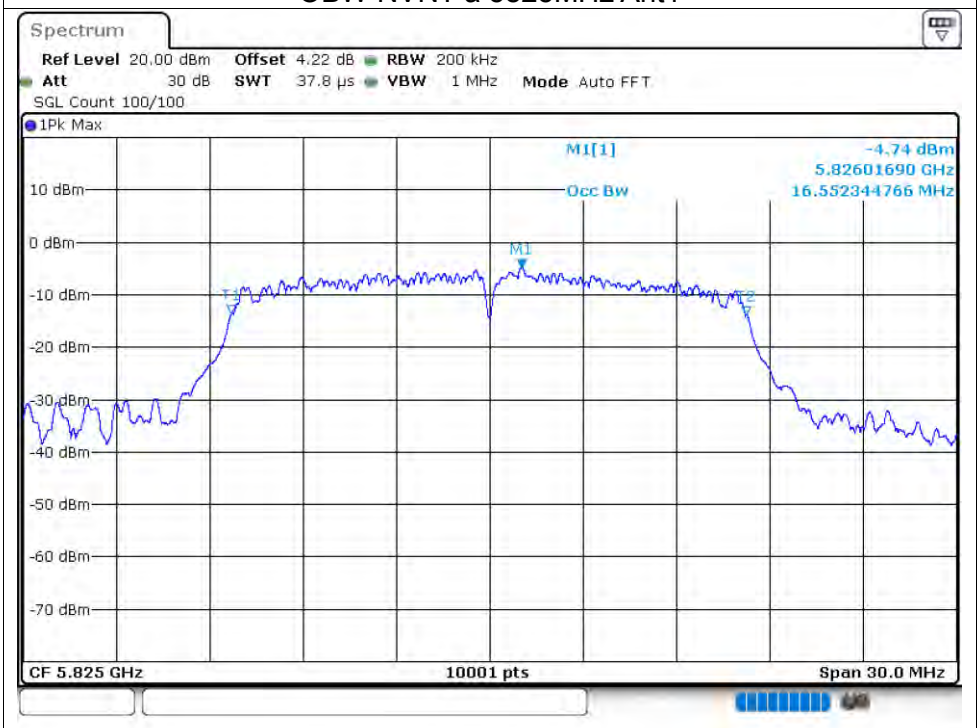
Test Graphs
OBW NVNT a 5745MHz Ant1



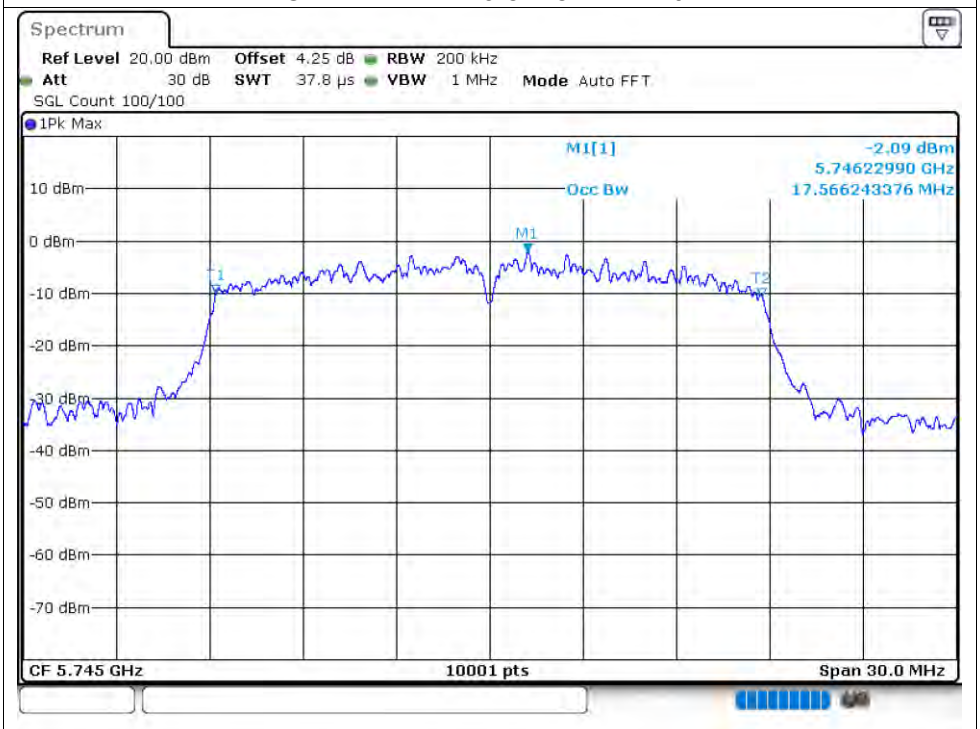
OBW NVNT a 5785MHz Ant1



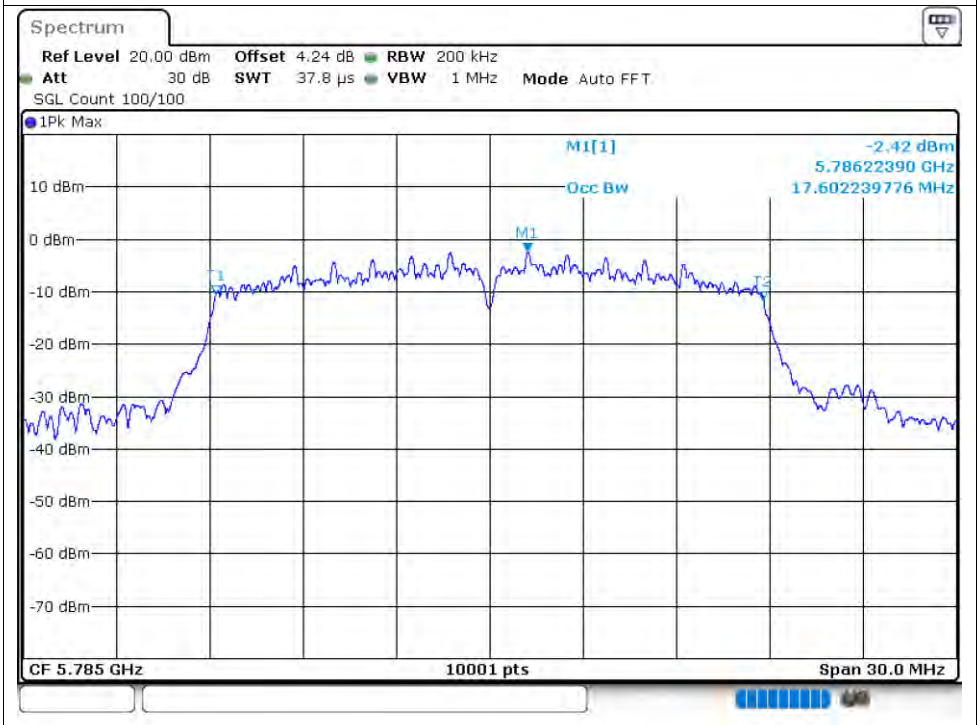
OBW NVNT a 5825MHz Ant1



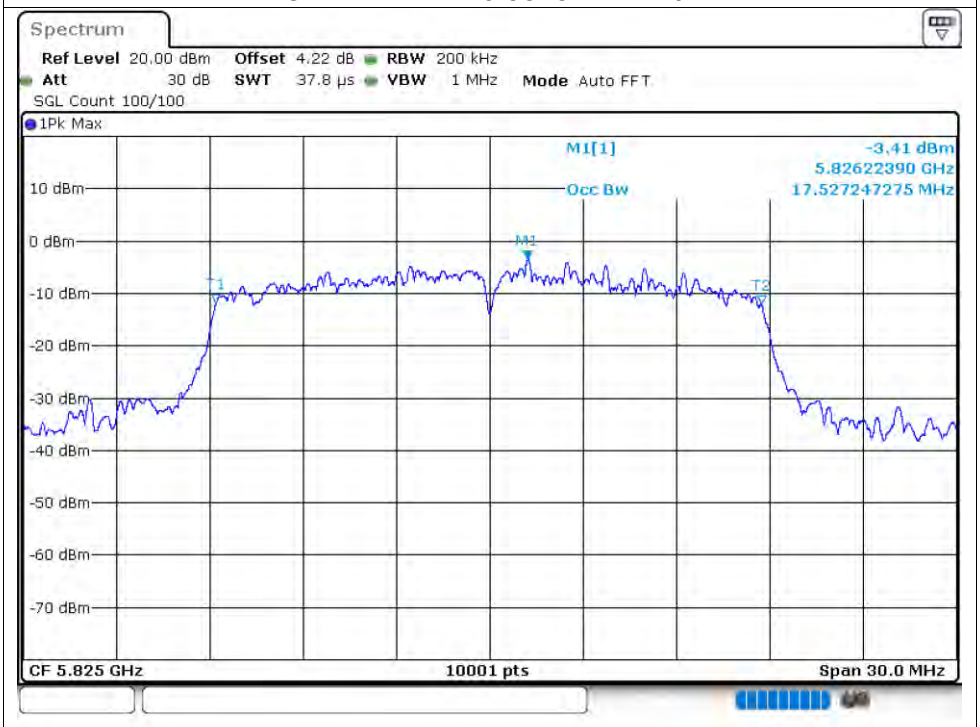
OBW NVNT n20 5745MHz Ant1



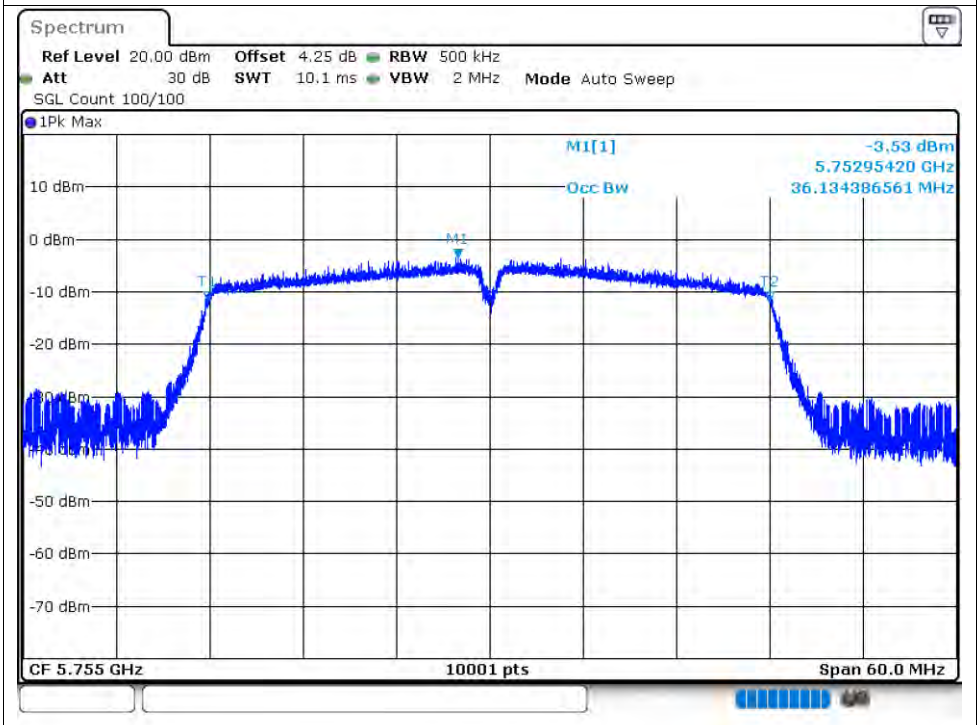
OBW NVNT n20 5785MHz Ant1



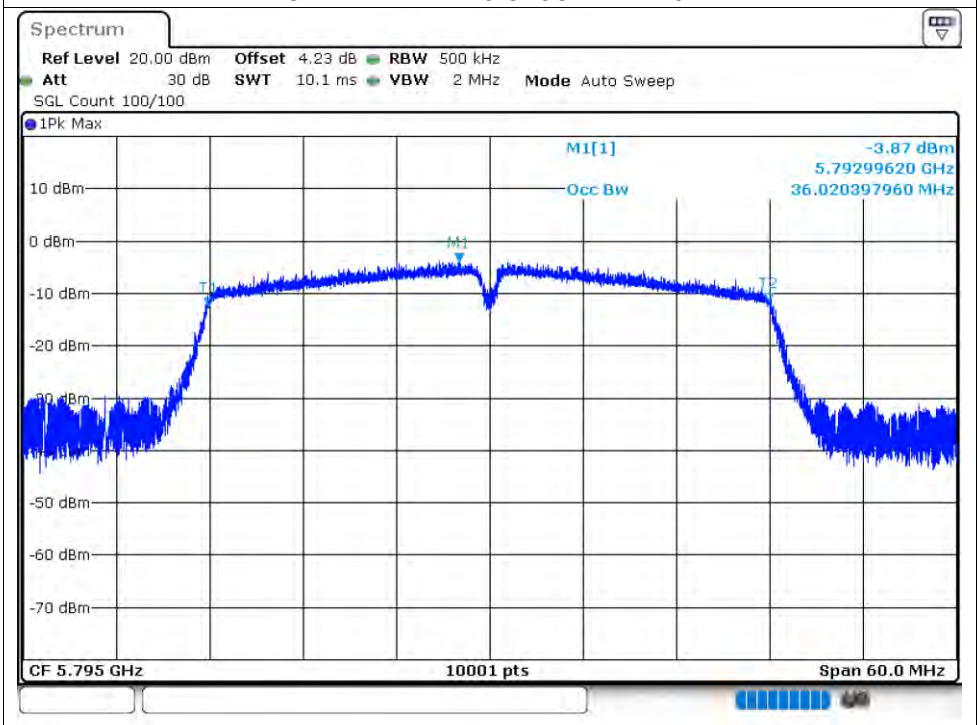
OBW NVNT n20 5825MHz Ant1



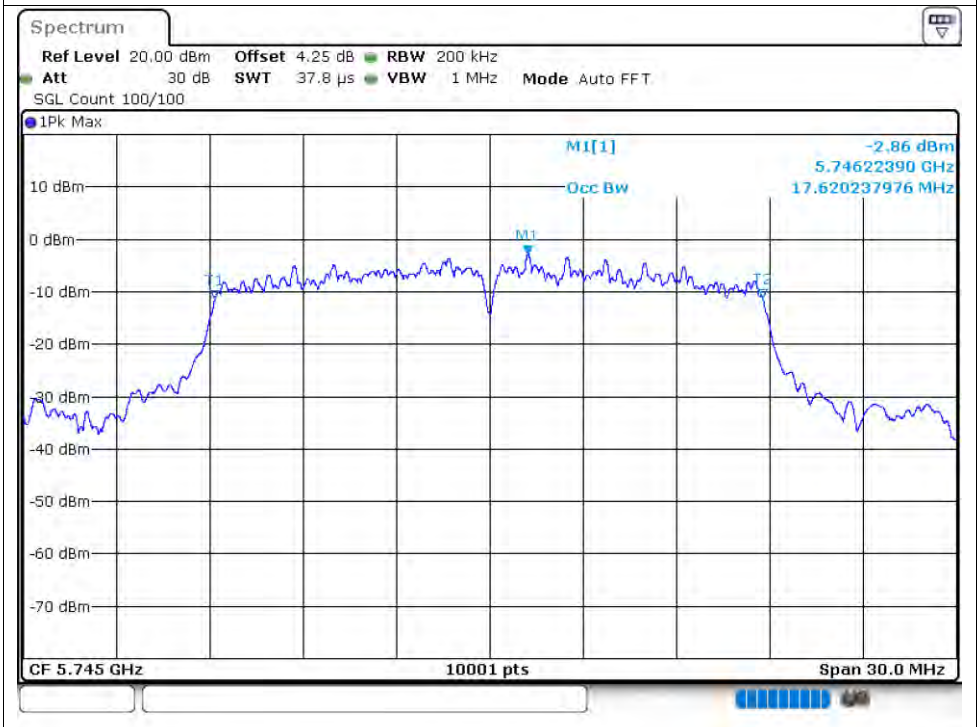
OBW NVNT n40 5755MHz Ant1



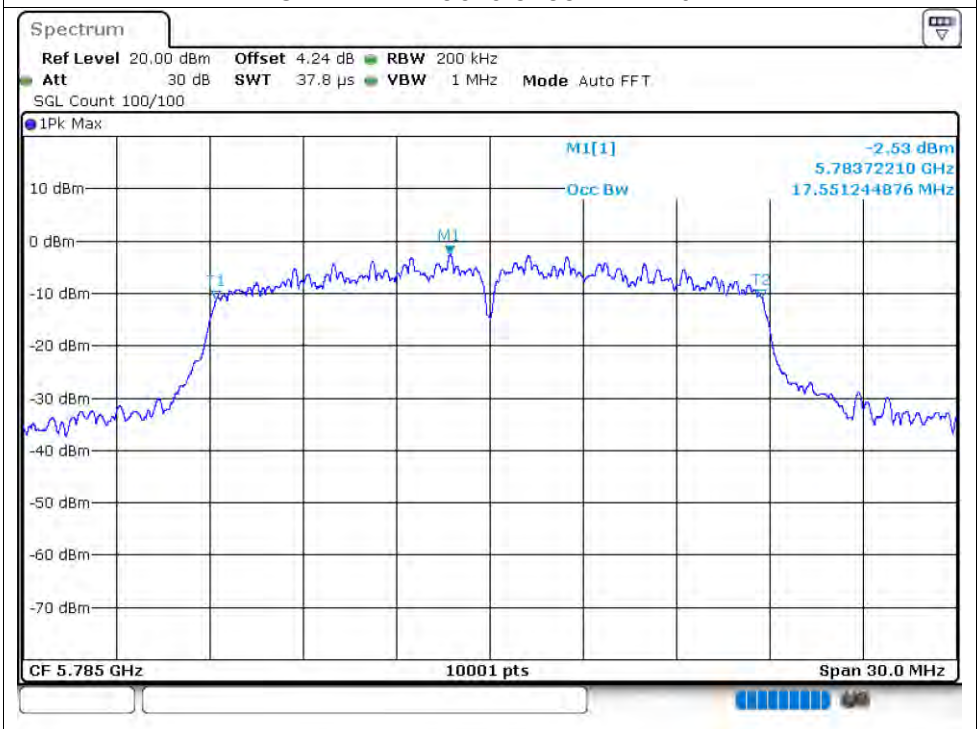
OBW NVNT n40 5795MHz Ant1



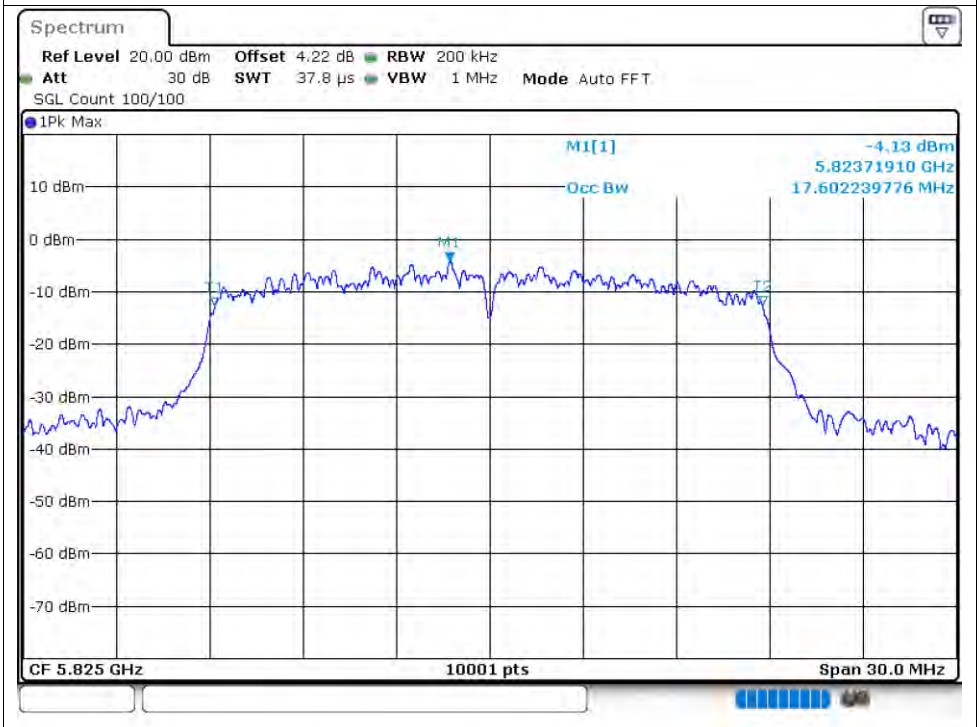
OBW NVNT ac20 5745MHz Ant1



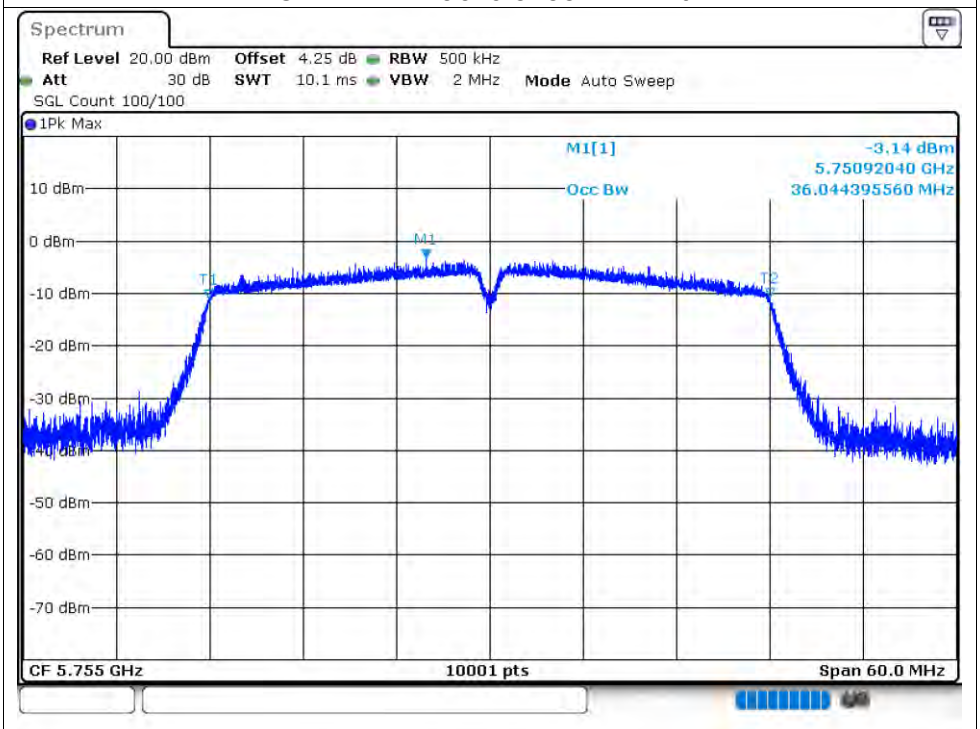
OBW NVNT ac20 5785MHz Ant1



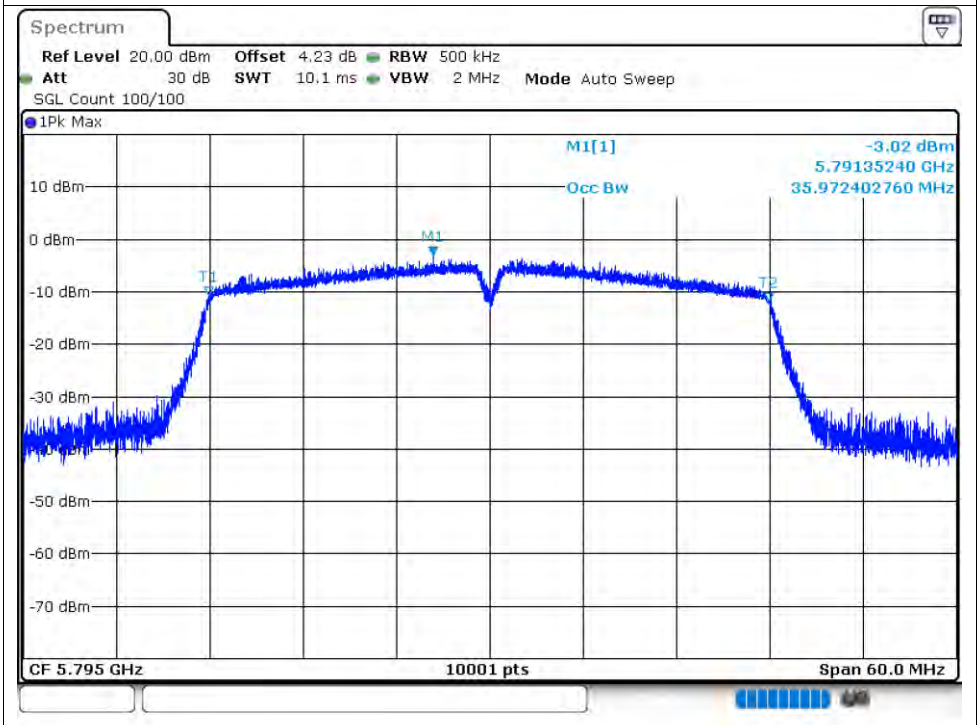
OBW NVNT ac20 5825MHz Ant1



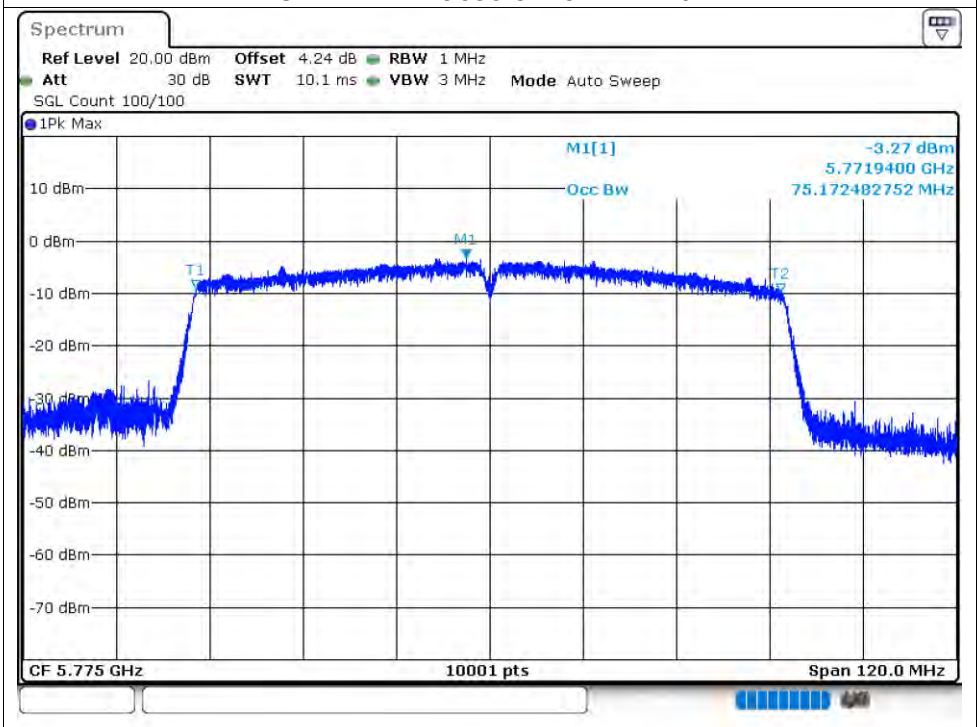
OBW NVNT ac40 5755MHz Ant1



OBW NVNT ac40 5795MHz Ant1



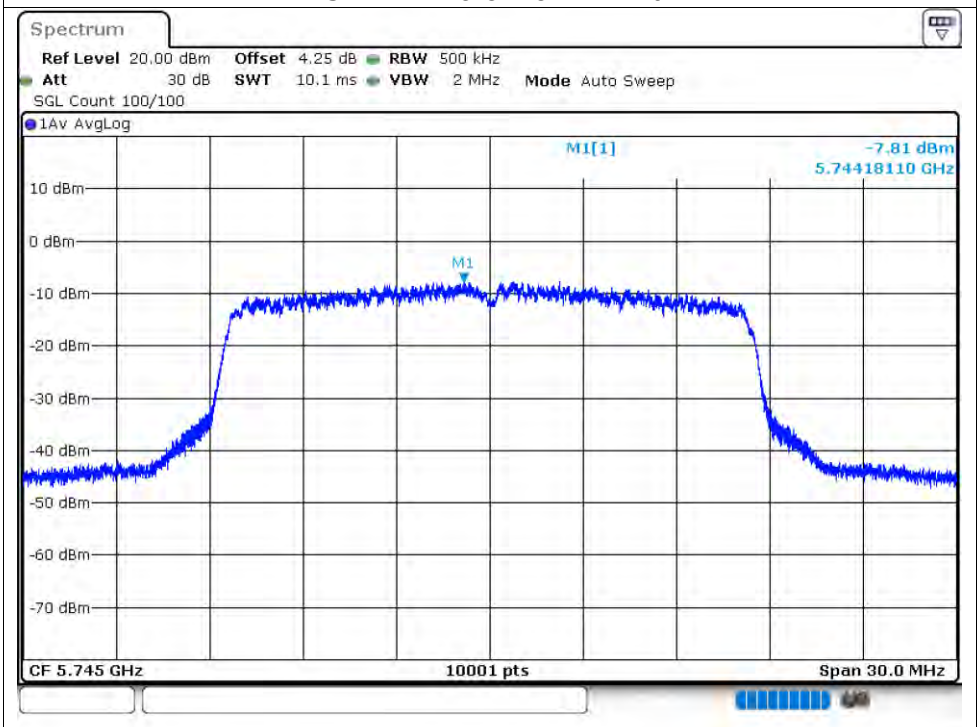
OBW NVNT ac80 5775MHz Ant1



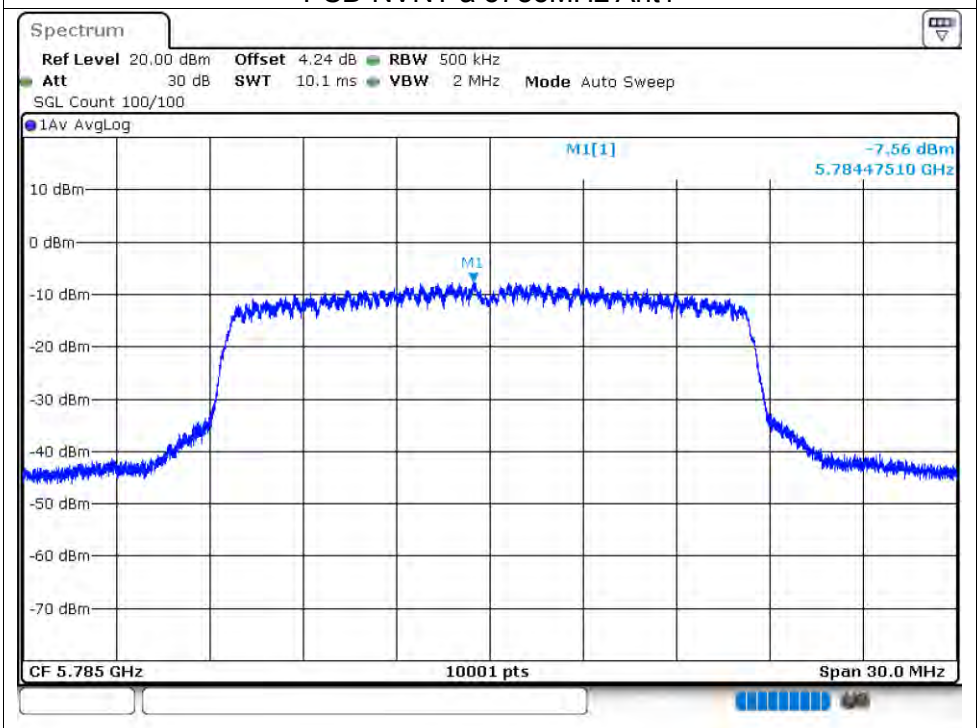
5.2.1 **MAXIMUM POWER SPECTRAL DENSITY LEVEL**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-7.81	0.08	-7.73	30	Pass
NVNT	a	5785	Ant1	-7.56	0.08	-7.48	30	Pass
NVNT	a	5825	Ant1	-8.04	0.08	-7.96	30	Pass
NVNT	n20	5745	Ant1	-7.01	0.09	-6.92	30	Pass
NVNT	n20	5785	Ant1	-7.99	0.09	-7.9	30	Pass
NVNT	n20	5825	Ant1	-8.42	0.08	-8.34	30	Pass
NVNT	n40	5755	Ant1	-12.57	0.16	-12.41	30	Pass
NVNT	n40	5795	Ant1	-13.2	0.16	-13.04	30	Pass
NVNT	ac20	5745	Ant1	-8.31	0.08	-8.23	30	Pass
NVNT	ac20	5785	Ant1	-7.82	0.08	-7.74	30	Pass
NVNT	ac20	5825	Ant1	-8.9	0.08	-8.82	30	Pass
NVNT	ac40	5755	Ant1	-12.92	0.16	-12.76	30	Pass
NVNT	ac40	5795	Ant1	-13.41	0.16	-13.25	30	Pass
NVNT	ac80	5775	Ant1	-17.52	0.43	-17.09	30	Pass

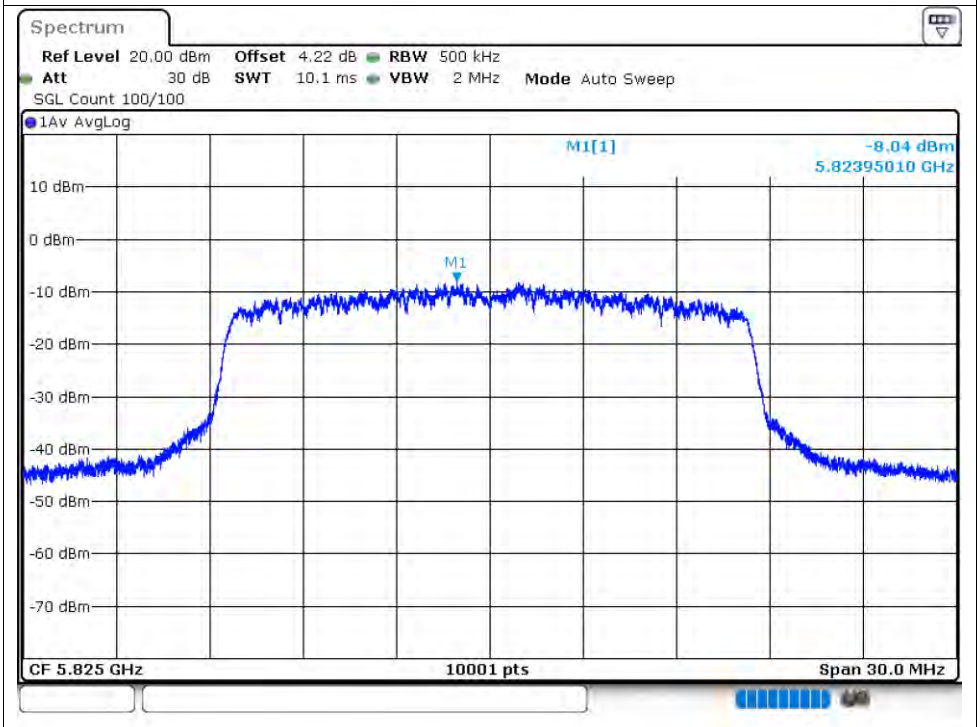
Test Graphs
PSD NVNT a 5745MHz Ant1



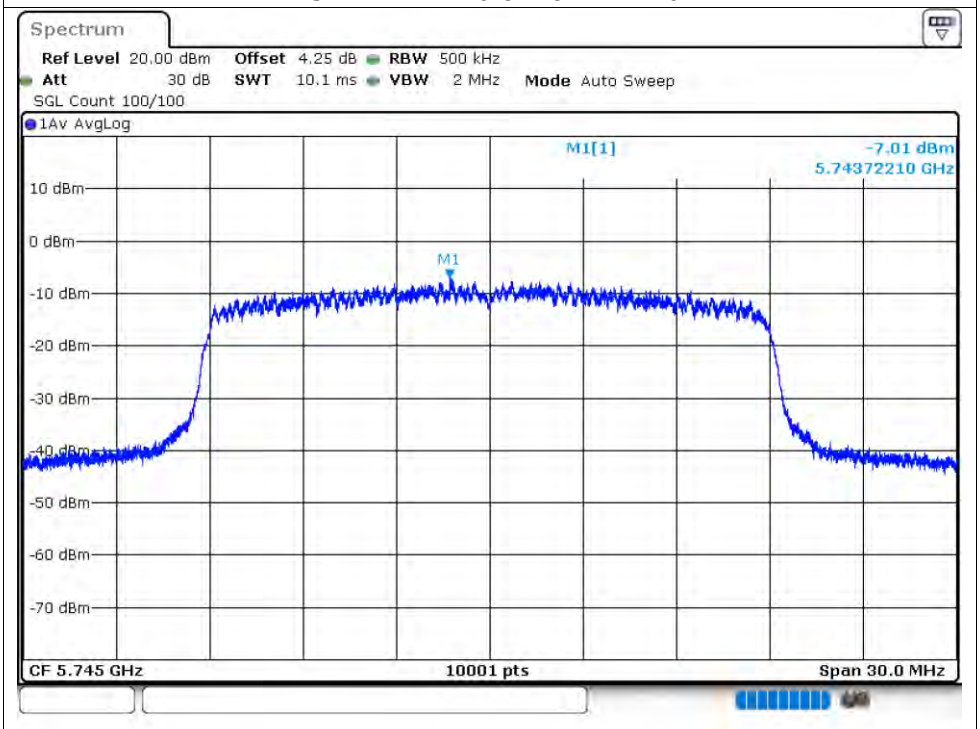
PSD NVNT a 5785MHz Ant1



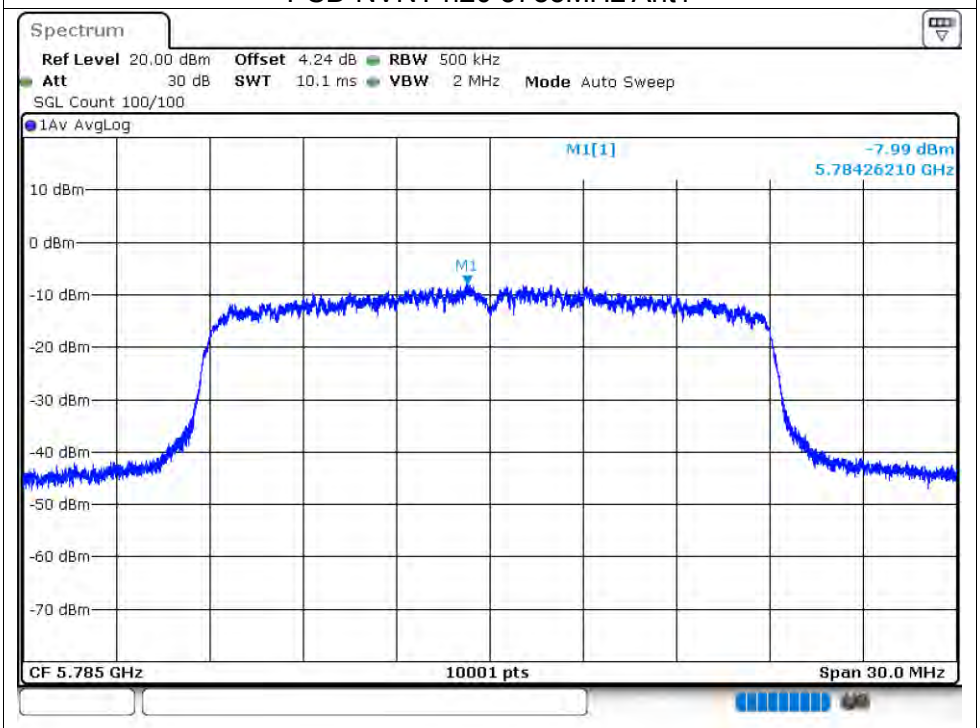
PSD NVNT a 5825MHz Ant1



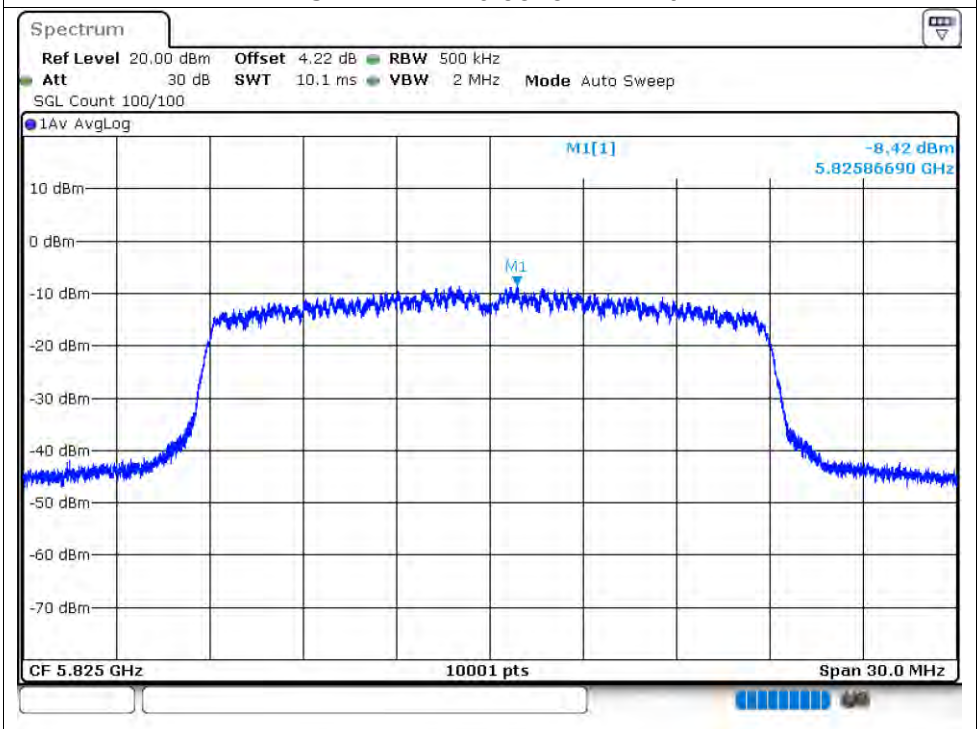
PSD NVNT n20 5745MHz Ant1



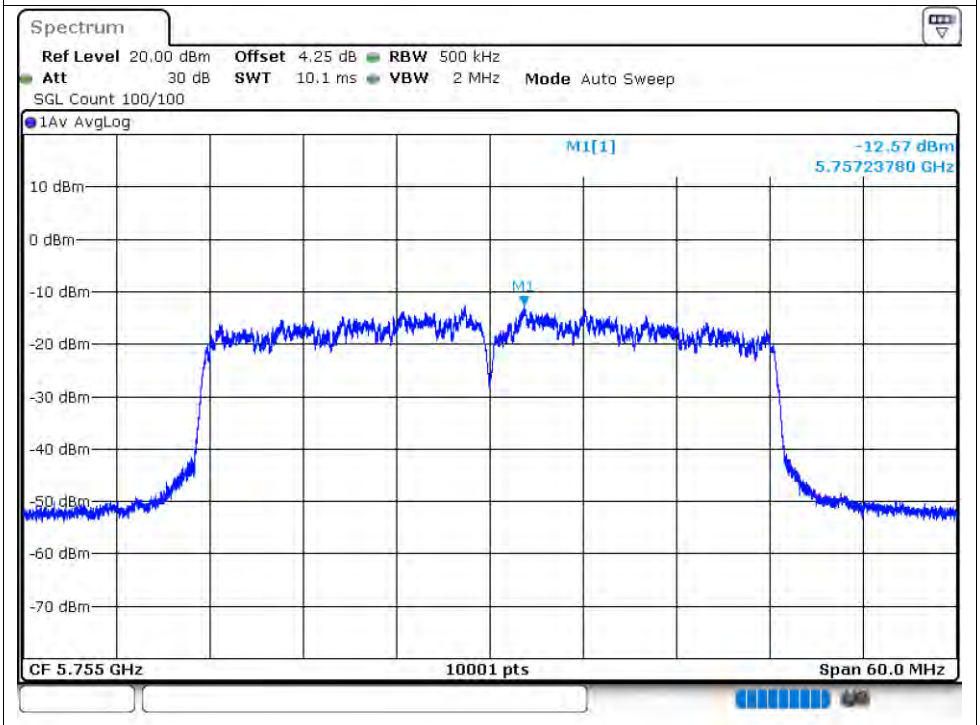
PSD NVNT n20 5785MHz Ant1



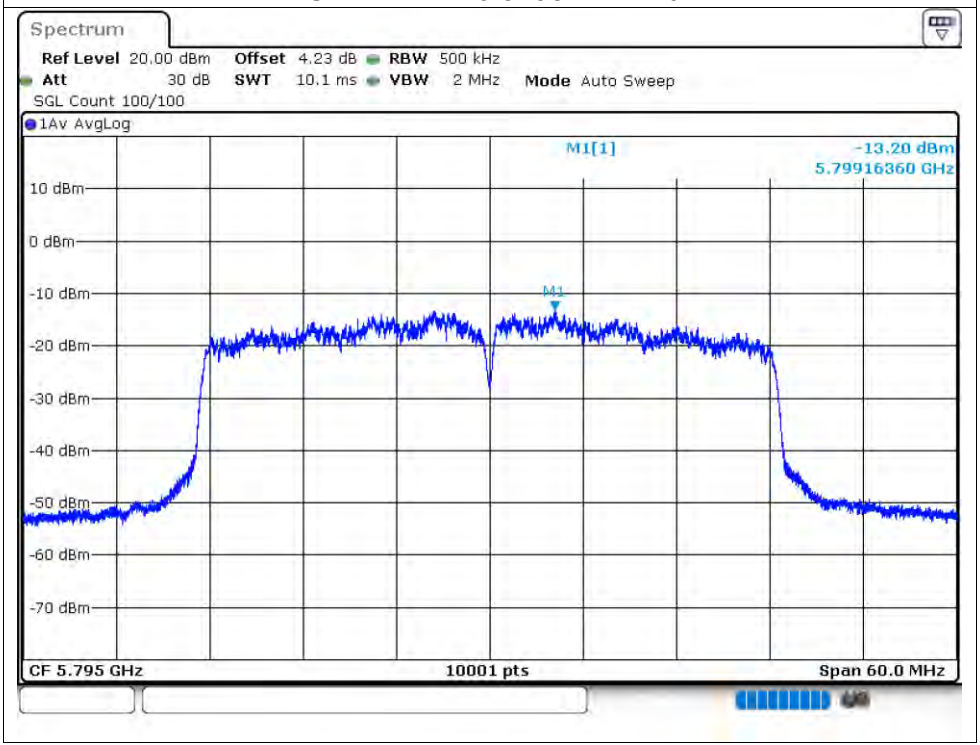
PSD NVNT n20 5825MHz Ant1



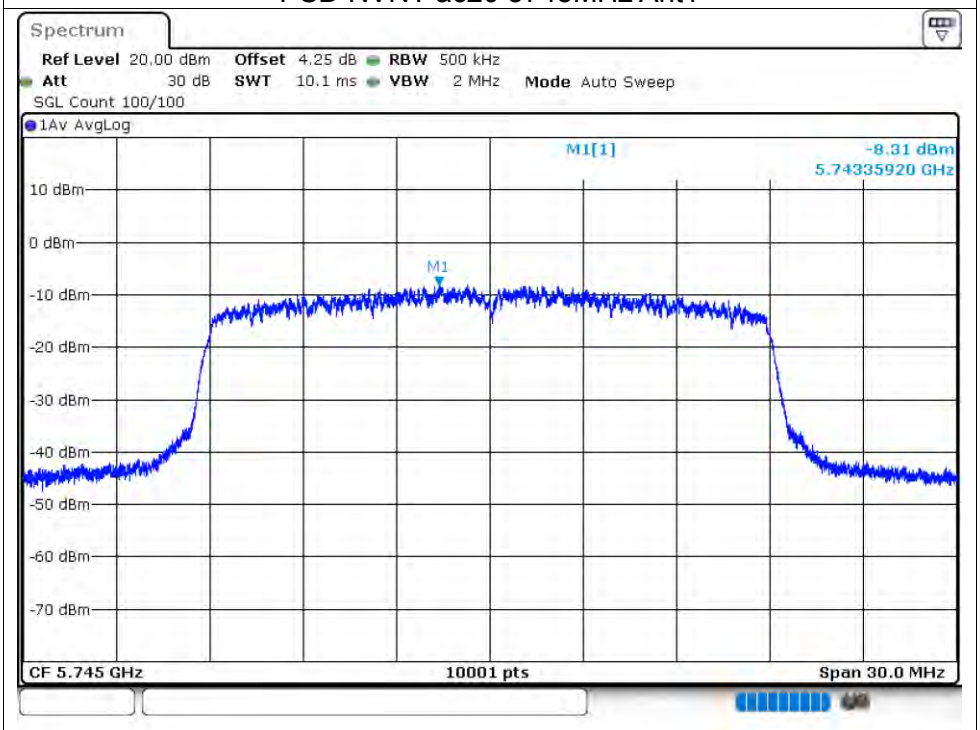
PSD NVNT n40 5755MHz Ant1



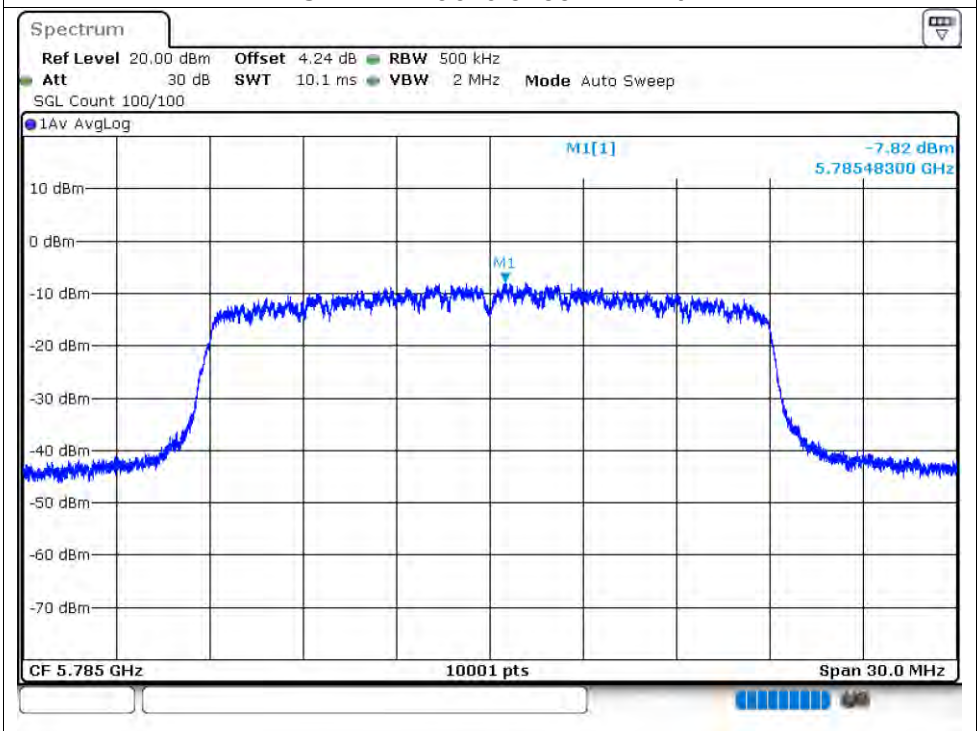
PSD NVNT n40 5795MHz Ant1



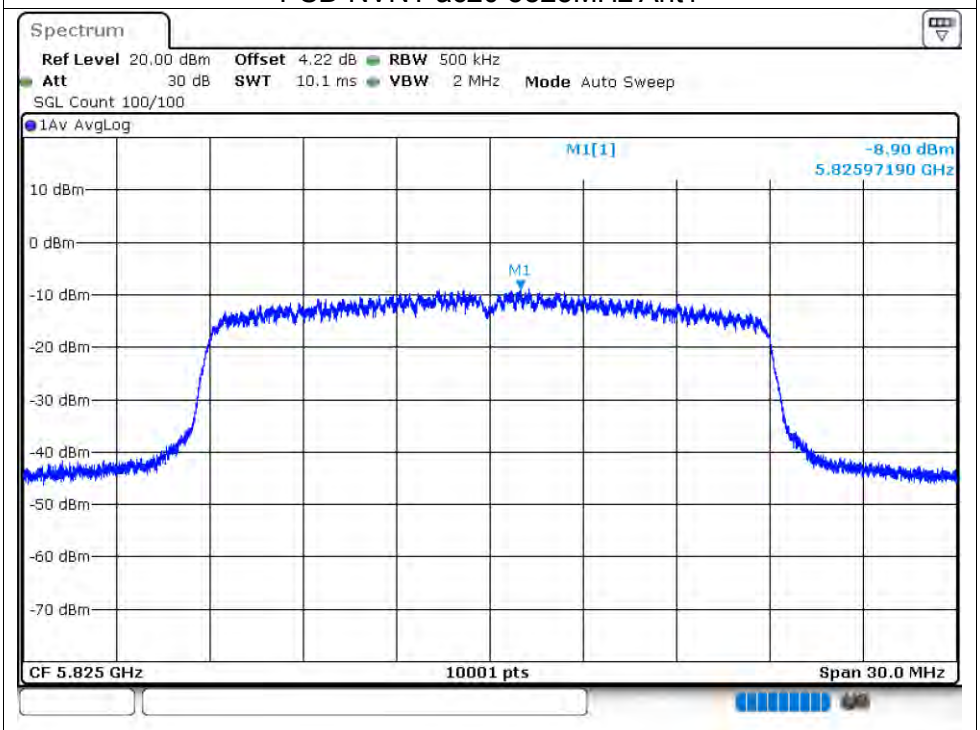
PSD NVNT ac20 5745MHz Ant1



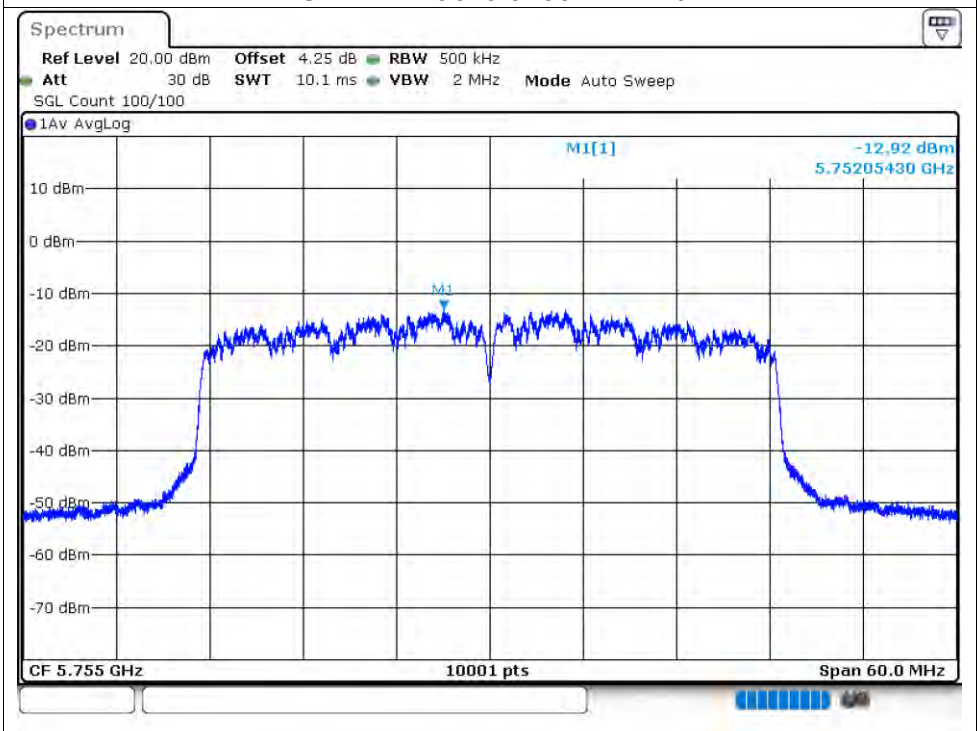
PSD NVNT ac20 5785MHz Ant1



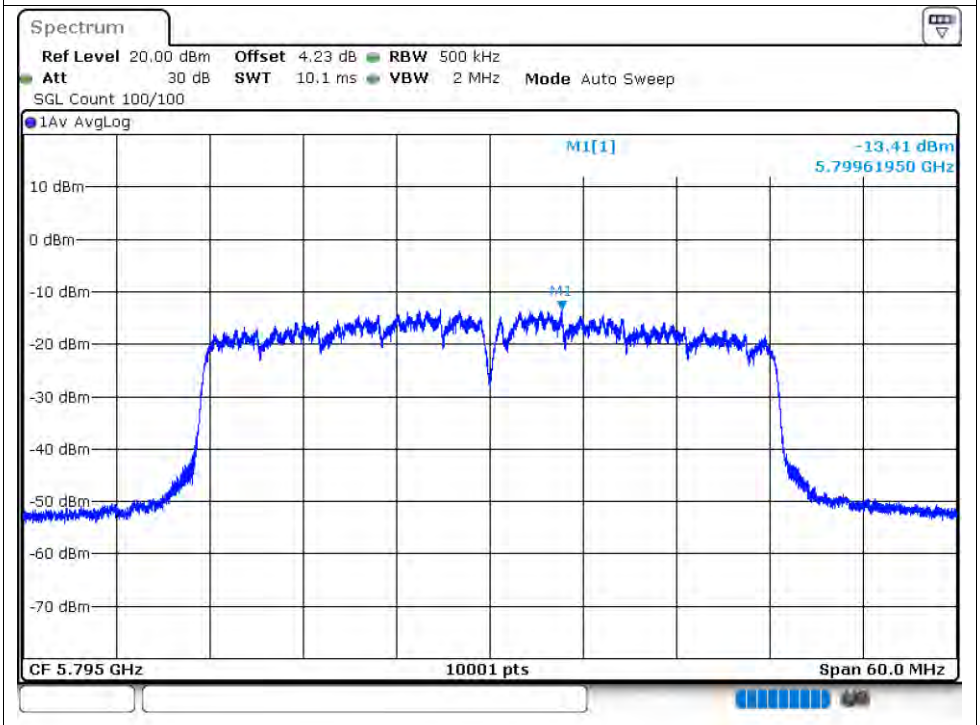
PSD NVNT ac20 5825MHz Ant1



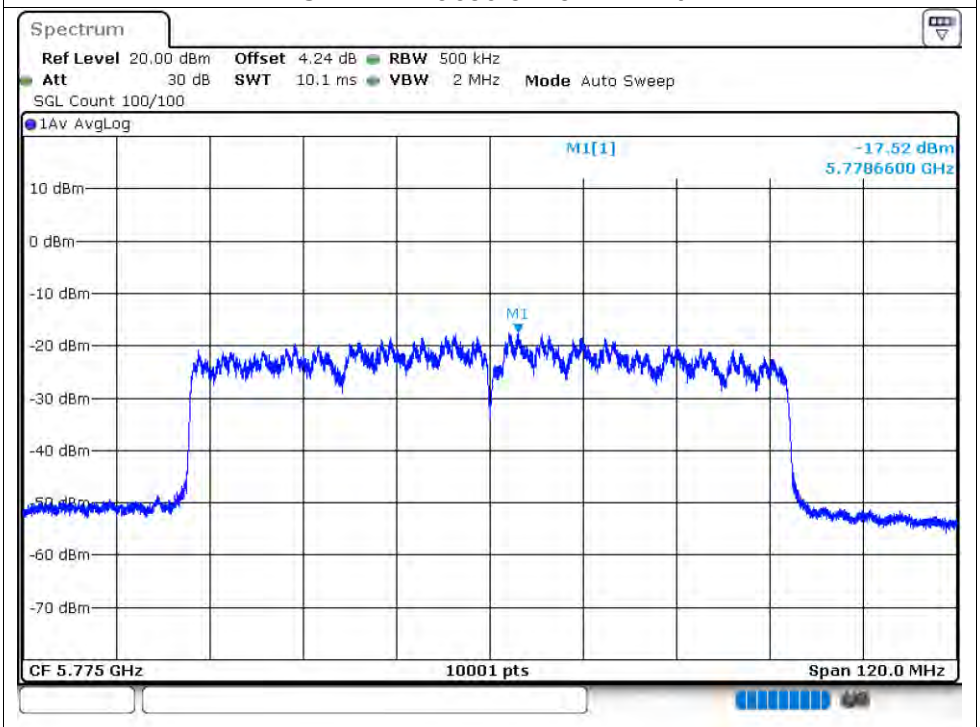
PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



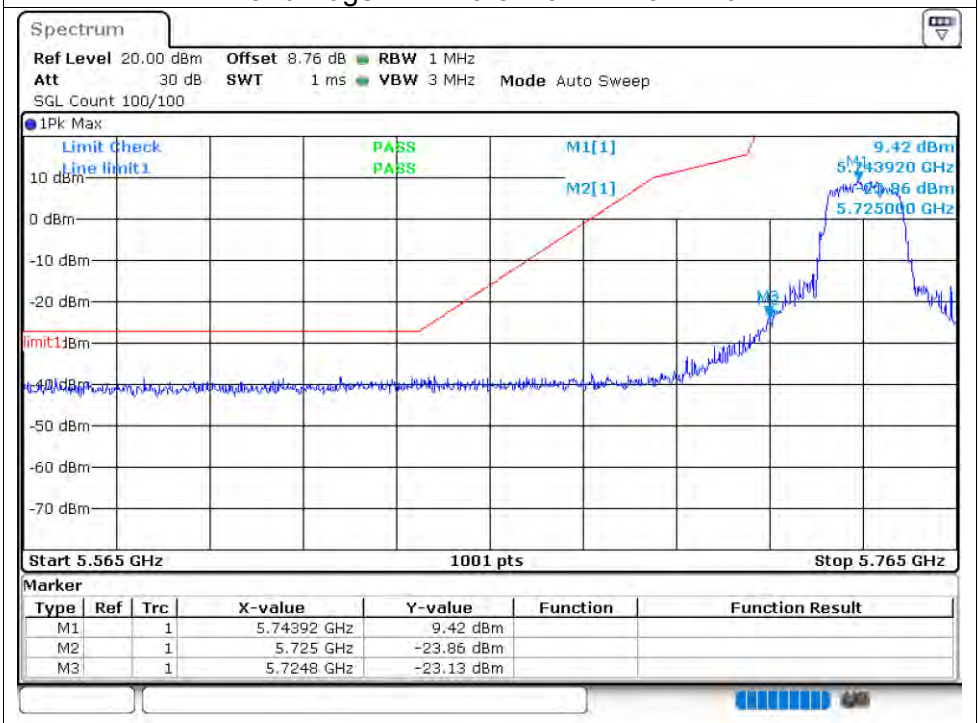
PSD NVNT ac80 5775MHz Ant1



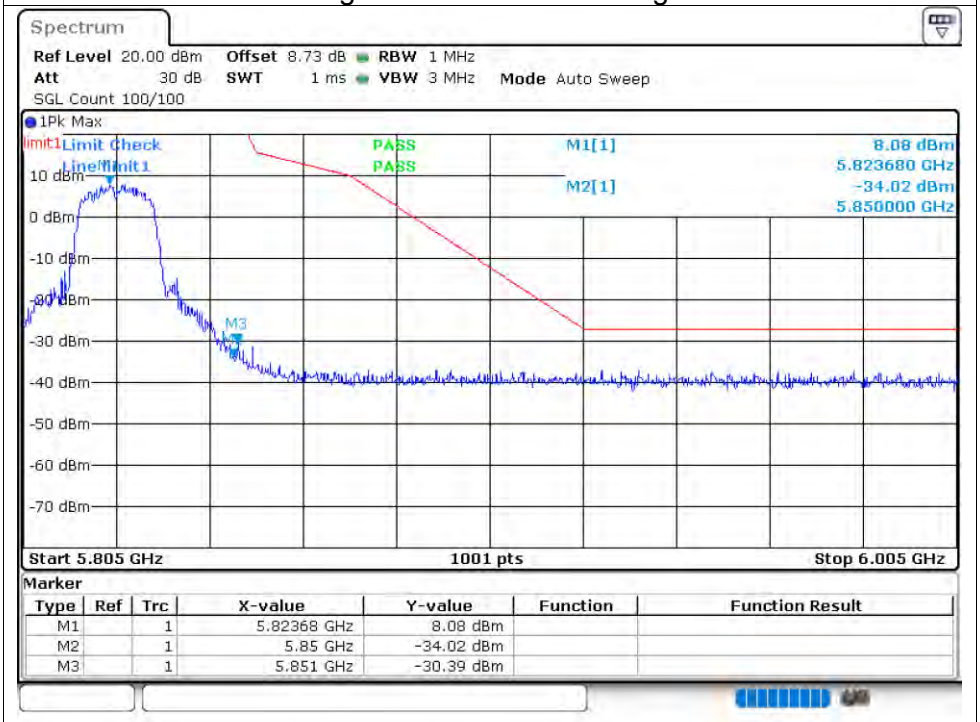
5.2.1 **BAND EDGE**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Verdict
NVNT	a	5745	Ant1	-23.12	Pass
NVNT	a	5825	Ant1	-30.38	Pass
NVNT	n20	5745	Ant1	-16.81	Pass
NVNT	n20	5825	Ant1	-30.63	Pass
NVNT	n40	5755	Ant1	-19.57	Pass
NVNT	n40	5795	Ant1	-35.14	Pass
NVNT	ac20	5745	Ant1	-24.26	Pass
NVNT	ac20	5825	Ant1	-30.21	Pass
NVNT	ac40	5755	Ant1	-27.03	Pass
NVNT	ac40	5795	Ant1	-35.57	Pass
NVNT	ac80	5775	Ant1	-35.3	Pass
NVNT	ac80	5775	Ant1	-25.8	Pass

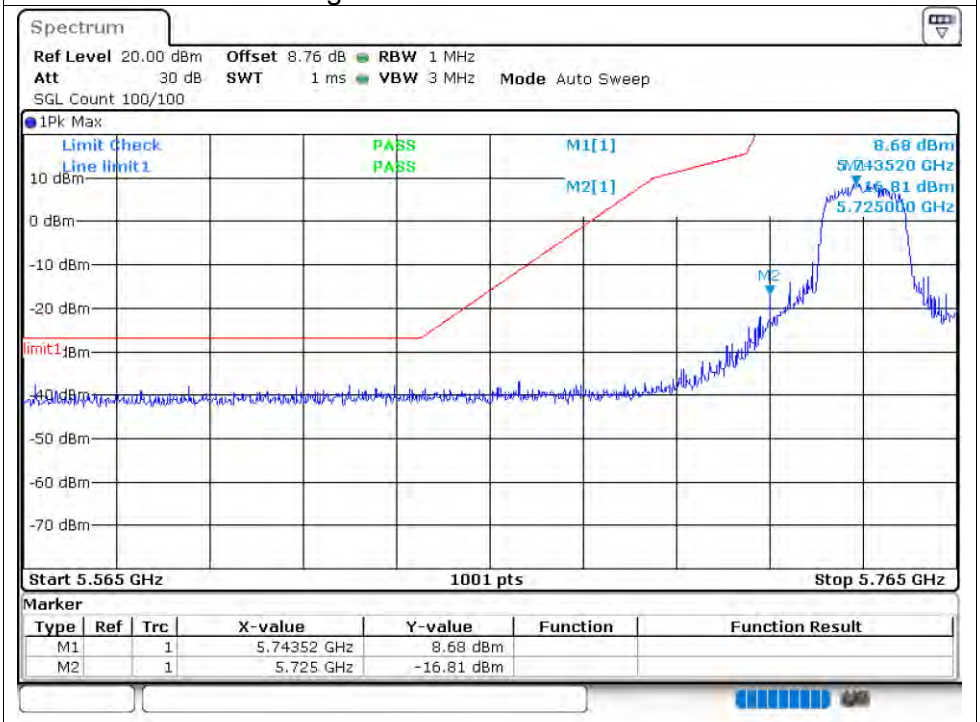
Test Graphs
Band Edge NVNT a 5745MHz Low Ant1



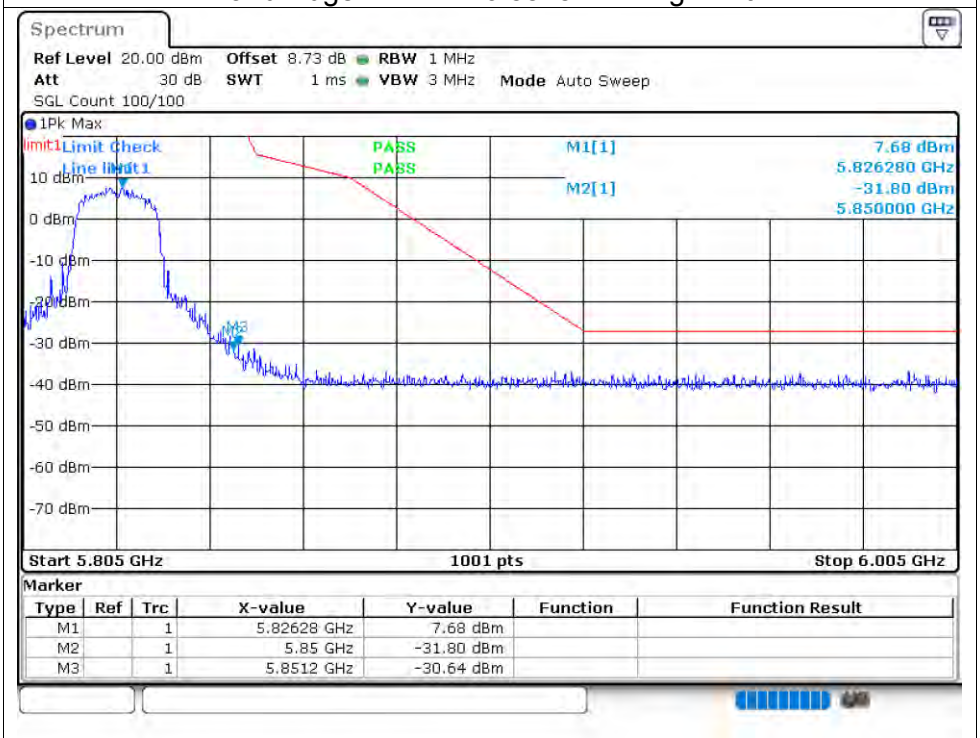
Band Edge NVNT a 5825MHz High Ant1



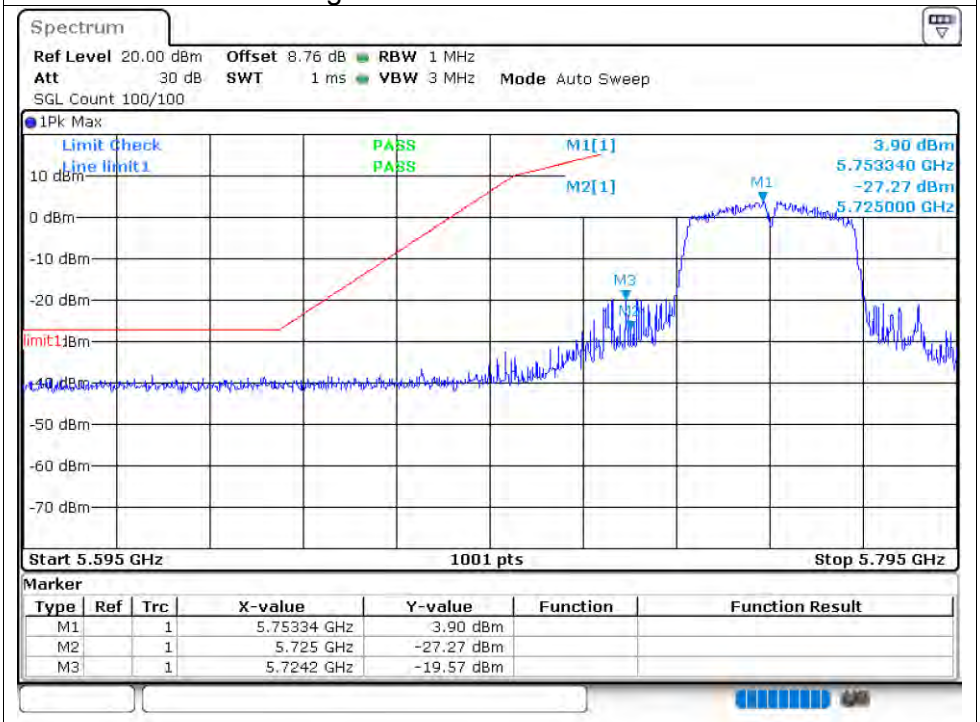
Band Edge NVNT n20 5745MHz Low Ant1



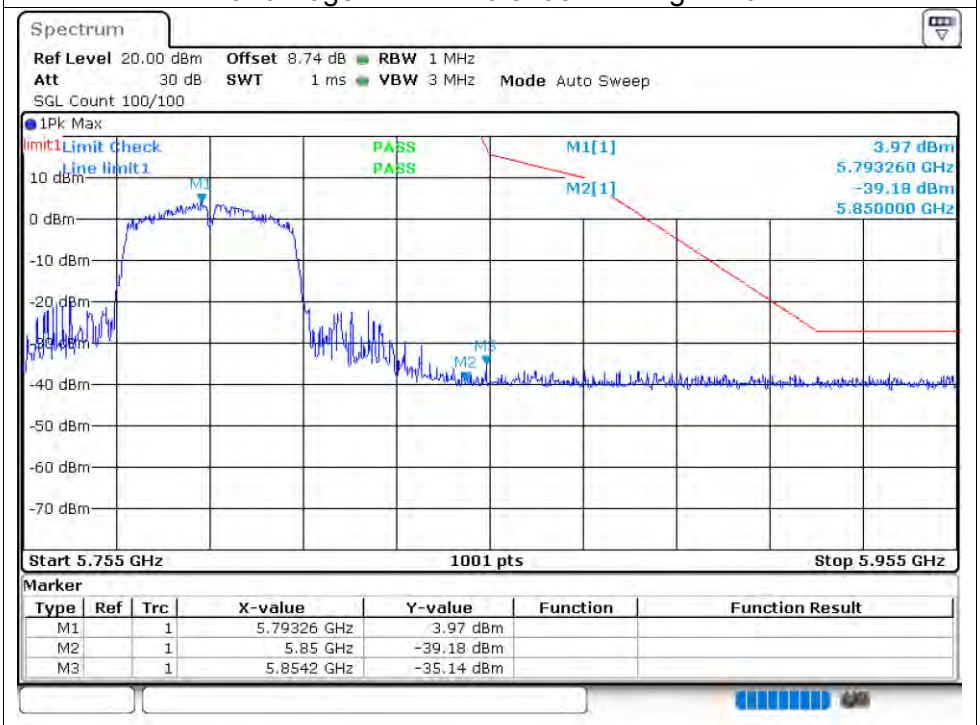
Band Edge NVNT n20 5825MHz High Ant1



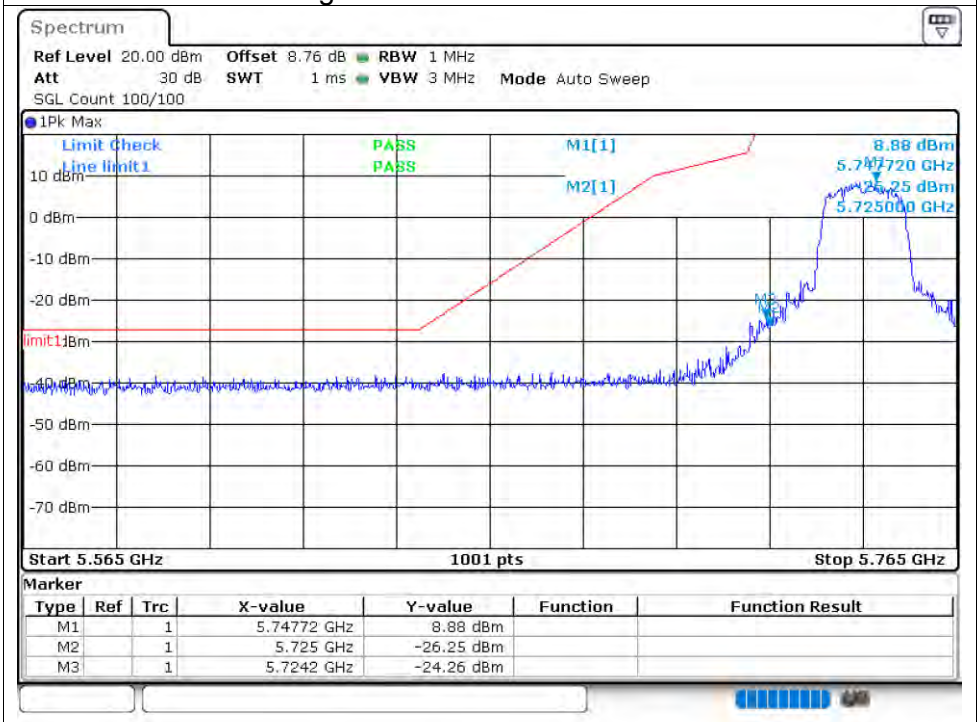
Band Edge NVNT n40 5755MHz Low Ant1



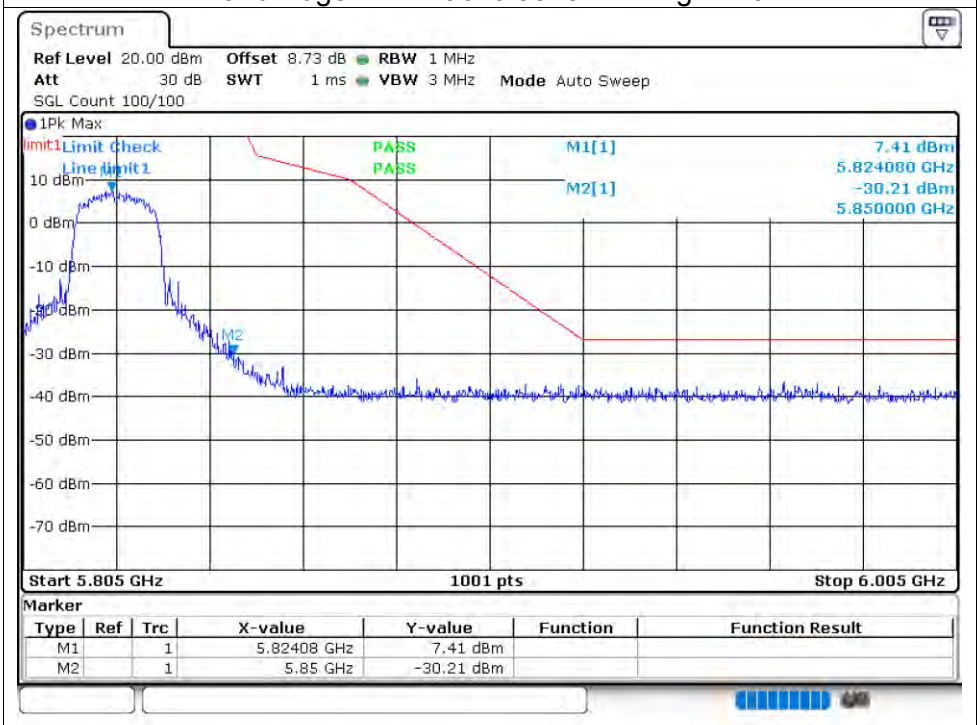
Band Edge NVNT n40 5795MHz High Ant1



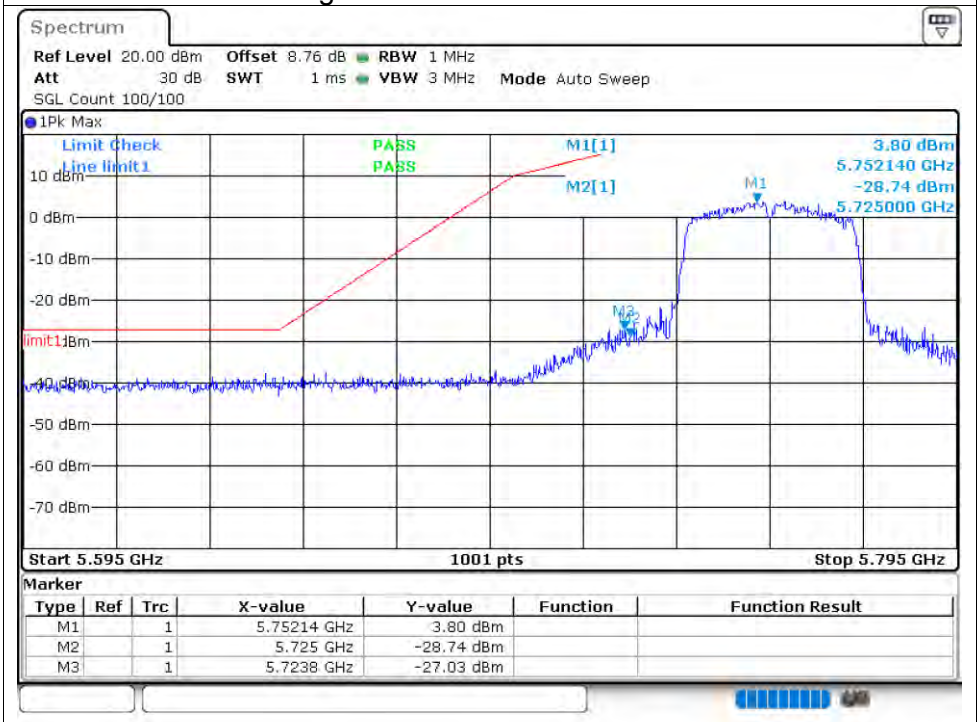
Band Edge NVNT ac20 5745MHz Low Ant1



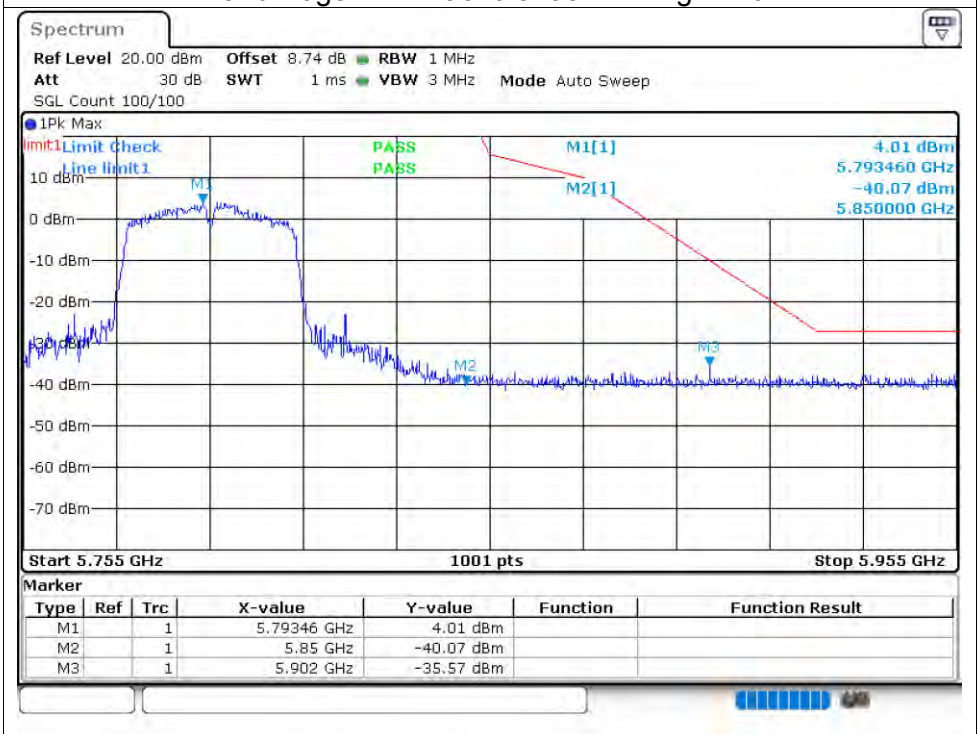
Band Edge NVNT ac20 5825MHz High Ant1



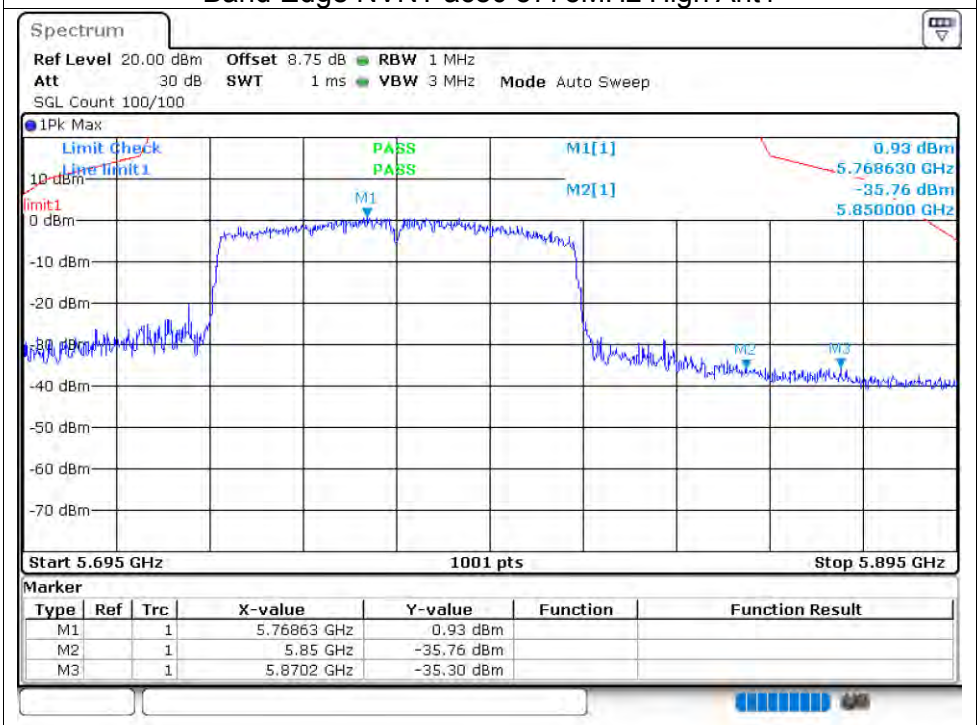
Band Edge NVNT ac40 5755MHz Low Ant1



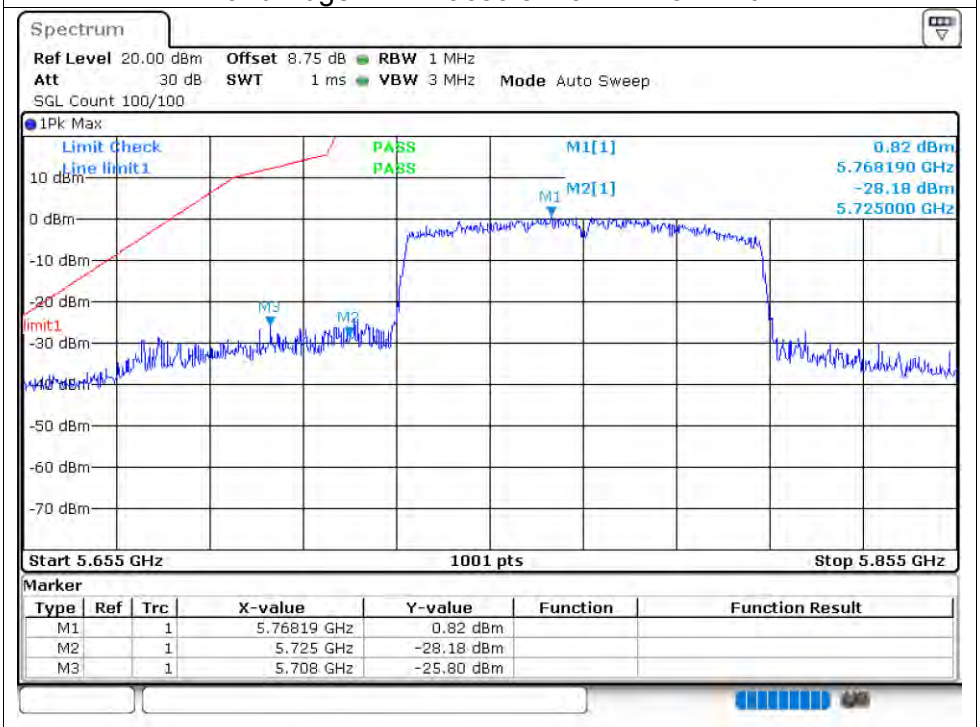
Band Edge NVNT ac40 5795MHz High Ant1



Band Edge NVNT ac80 5775MHz High Ant1



Band Edge NVNT ac80 5775MHz Low Ant1

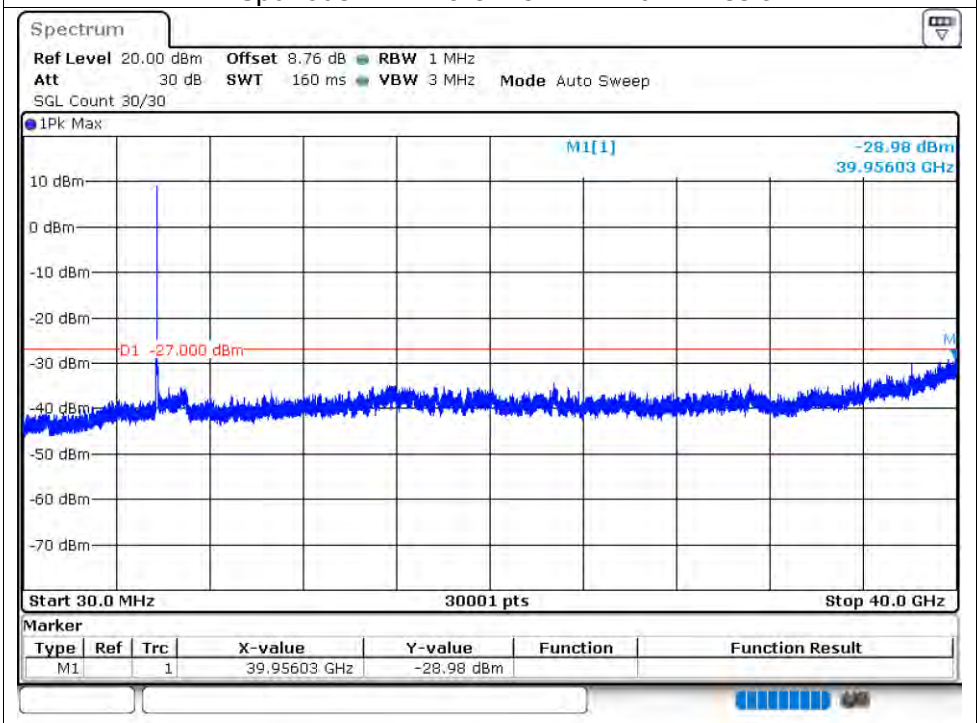


5.2.1 **CONDUCTED RF SPURIOUS EMISSION**

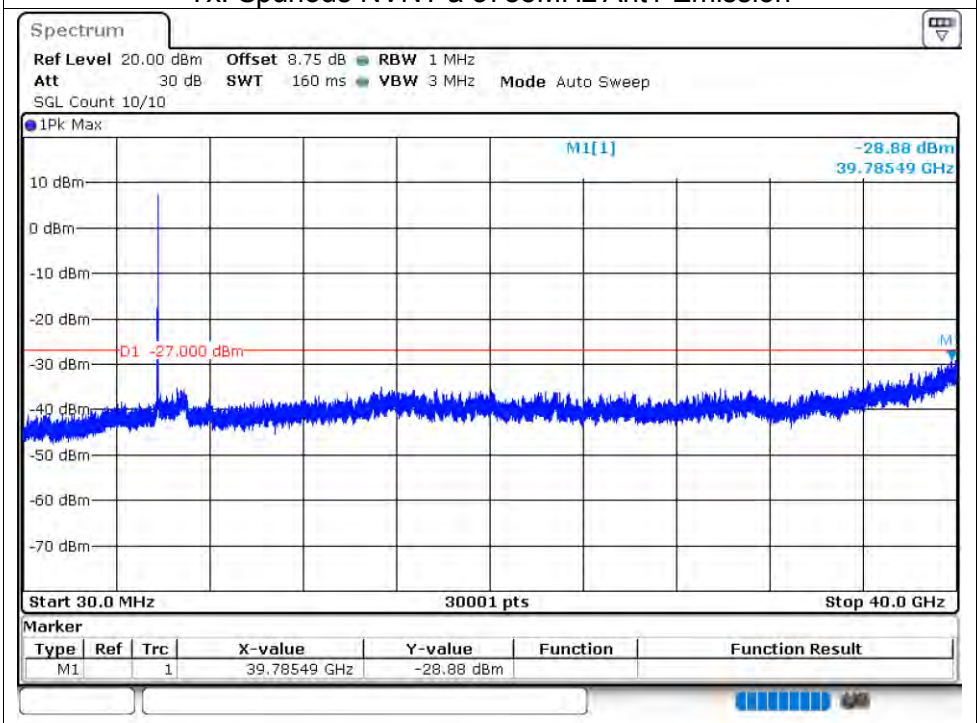
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-28.98	-27	Pass
NVNT	a	5785	Ant1	-28.87	-27	Pass
NVNT	a	5825	Ant1	-29.54	-27	Pass
NVNT	n20	5745	Ant1	-29.09	-27	Pass
NVNT	n20	5785	Ant1	-29.74	-27	Pass
NVNT	n20	5825	Ant1	-29.23	-27	Pass
NVNT	n40	5755	Ant1	-28.82	-27	Pass
NVNT	n40	5795	Ant1	-29.49	-27	Pass
NVNT	ac20	5745	Ant1	-29.4	-27	Pass
NVNT	ac20	5785	Ant1	-29.84	-27	Pass
NVNT	ac20	5825	Ant1	-29.64	-27	Pass
NVNT	ac40	5755	Ant1	-29.65	-27	Pass
NVNT	ac40	5795	Ant1	-29.92	-27	Pass
NVNT	ac80	5775	Ant1	-29.8	-27	Pass

Test Graphs

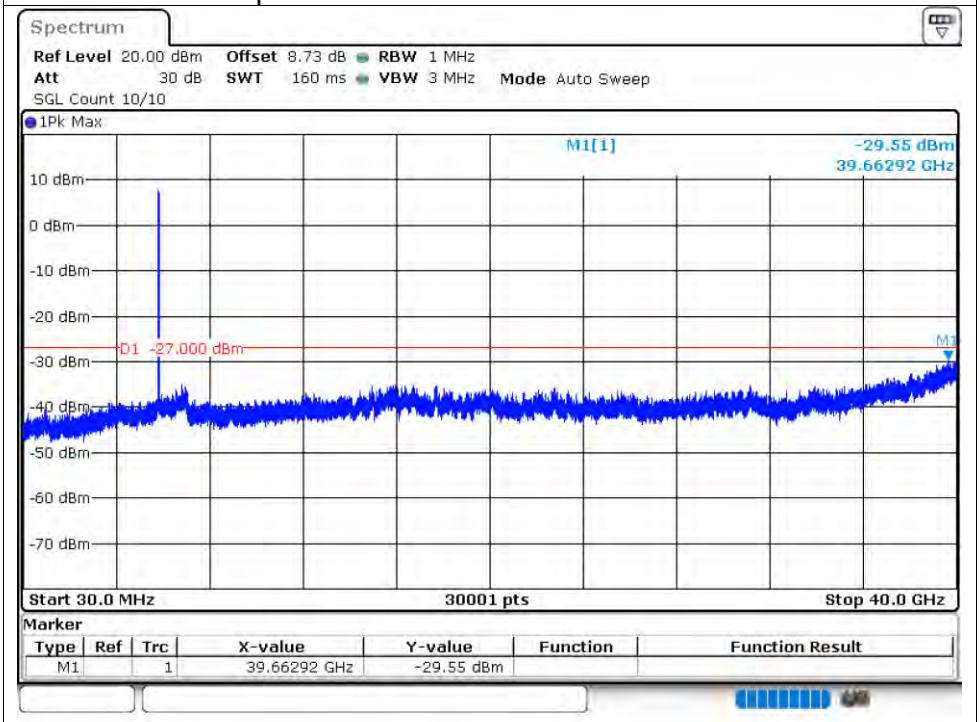
Tx. Spurious NVNT a 5745MHz Ant1 Emission



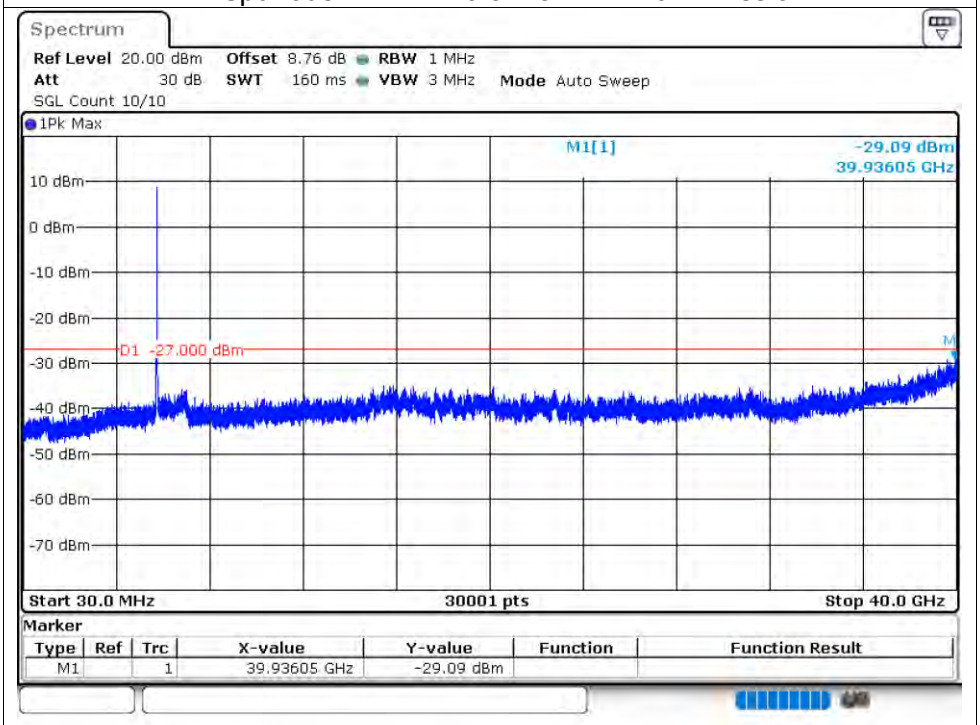
Tx. Spurious NVNT a 5785MHz Ant1 Emission



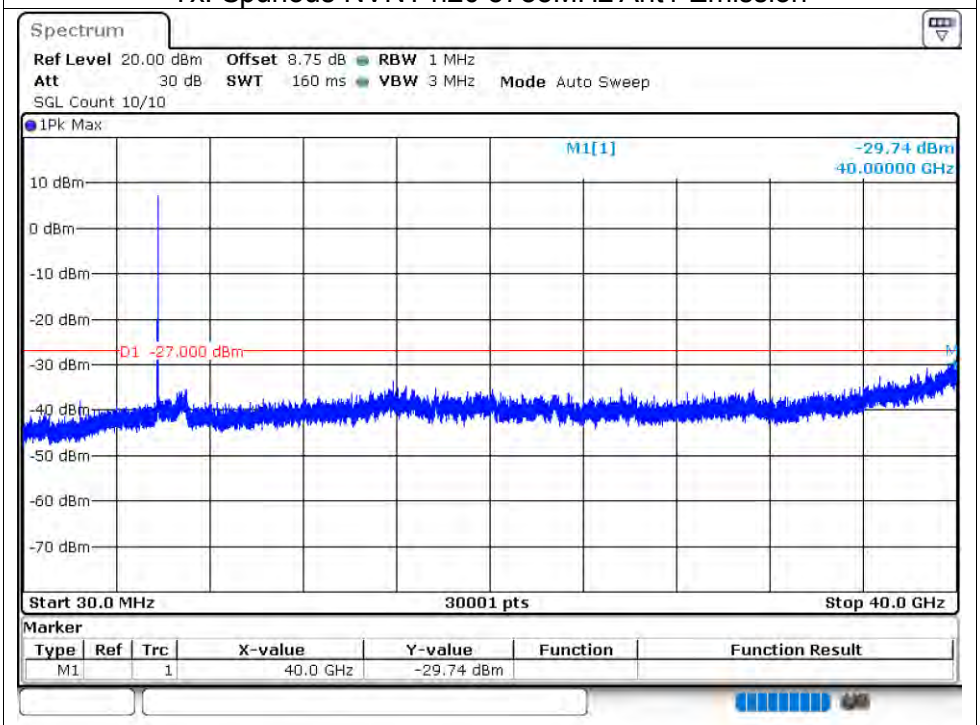
Tx. Spurious NVNT a 5825MHz Ant1 Emission



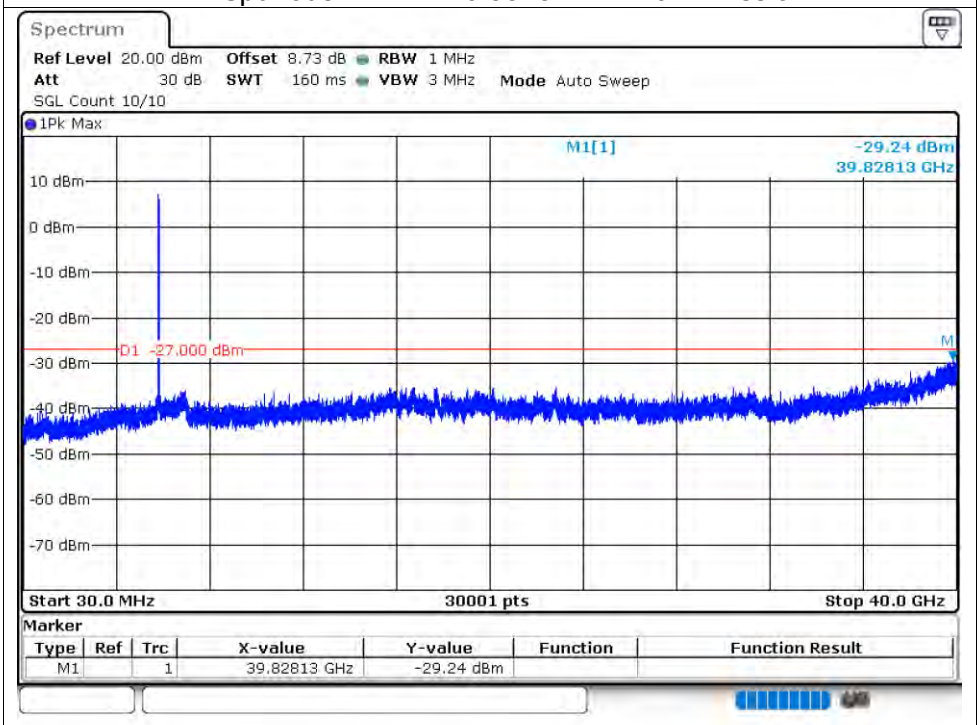
Tx. Spurious NVNT n20 5745MHz Ant1 Emission



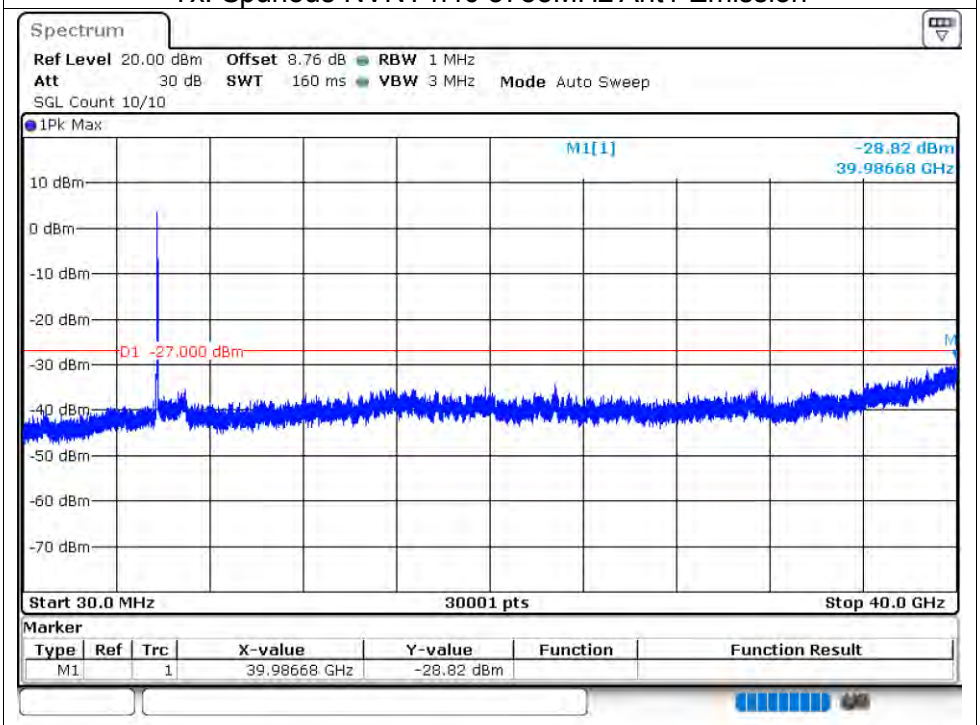
Tx. Spurious NVNT n20 5785MHz Ant1 Emission



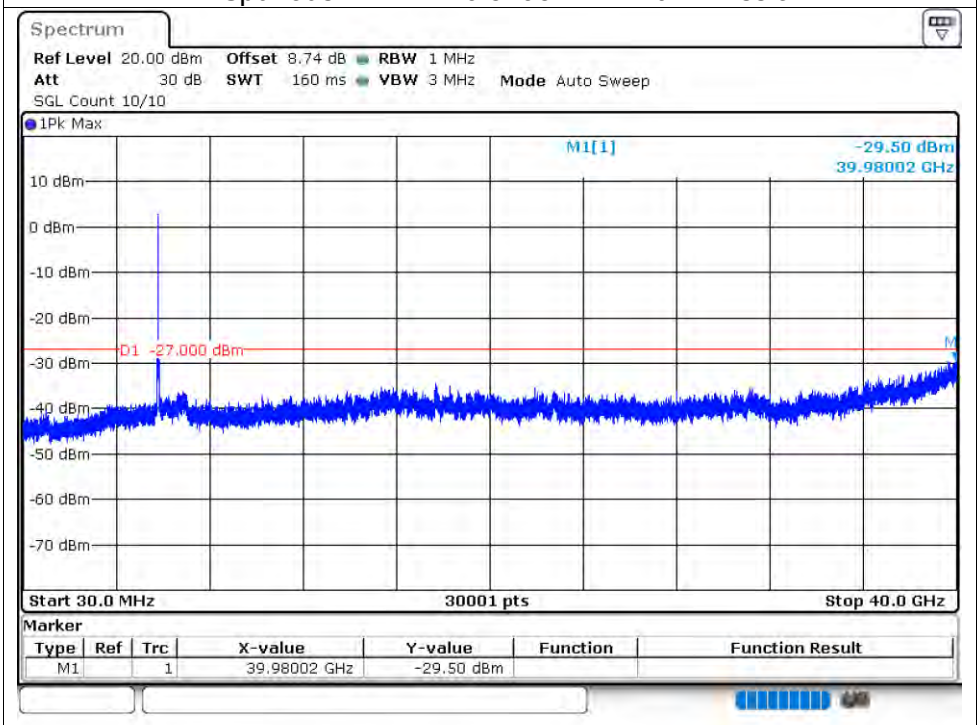
Tx. Spurious NVNT n20 5825MHz Ant1 Emission



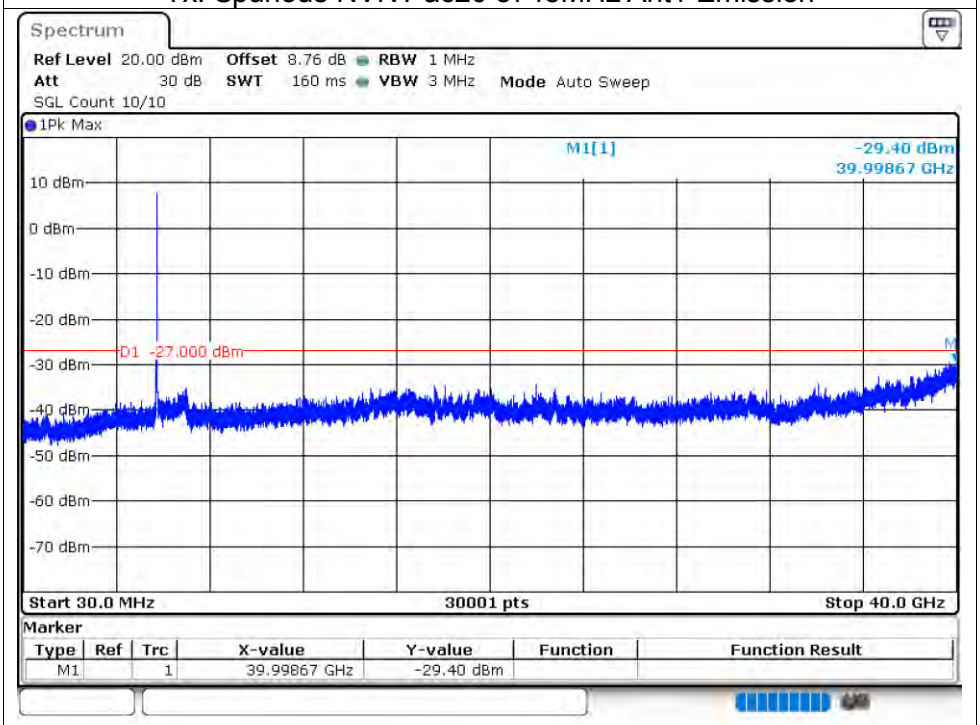
Tx. Spurious NVNT n40 5755MHz Ant1 Emission



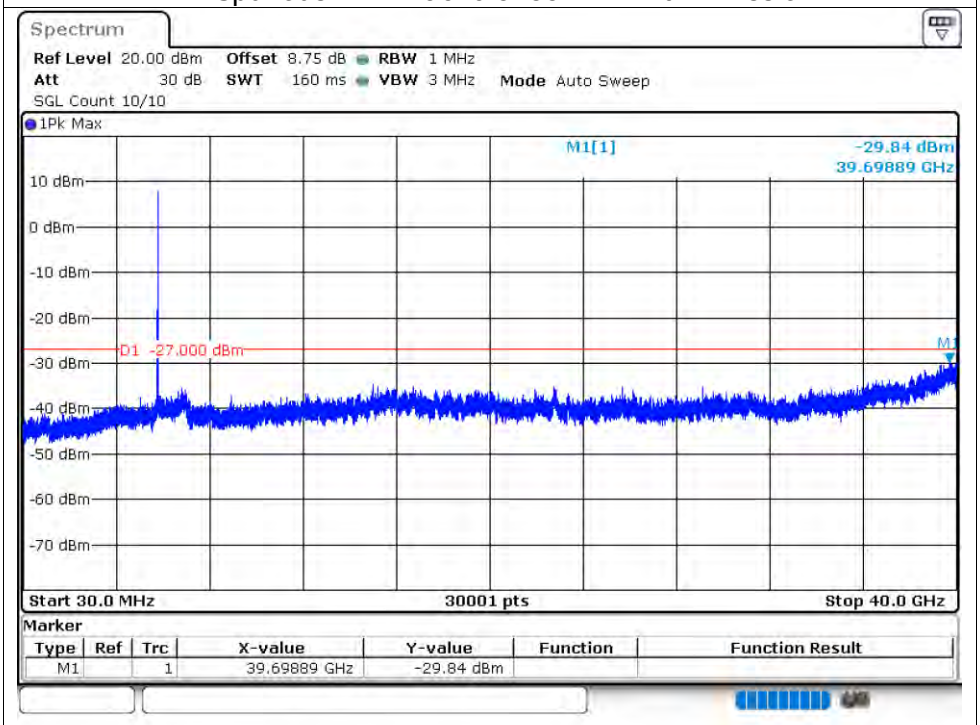
Tx. Spurious NVNT n40 5795MHz Ant1 Emission



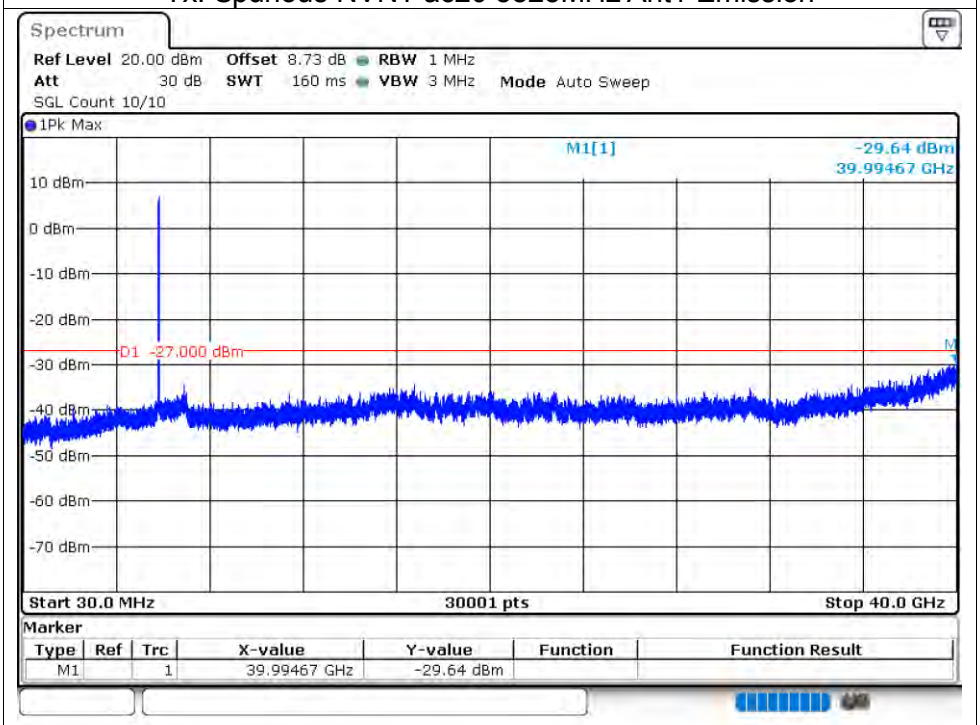
Tx. Spurious NVNT ac20 5745MHz Ant1 Emission



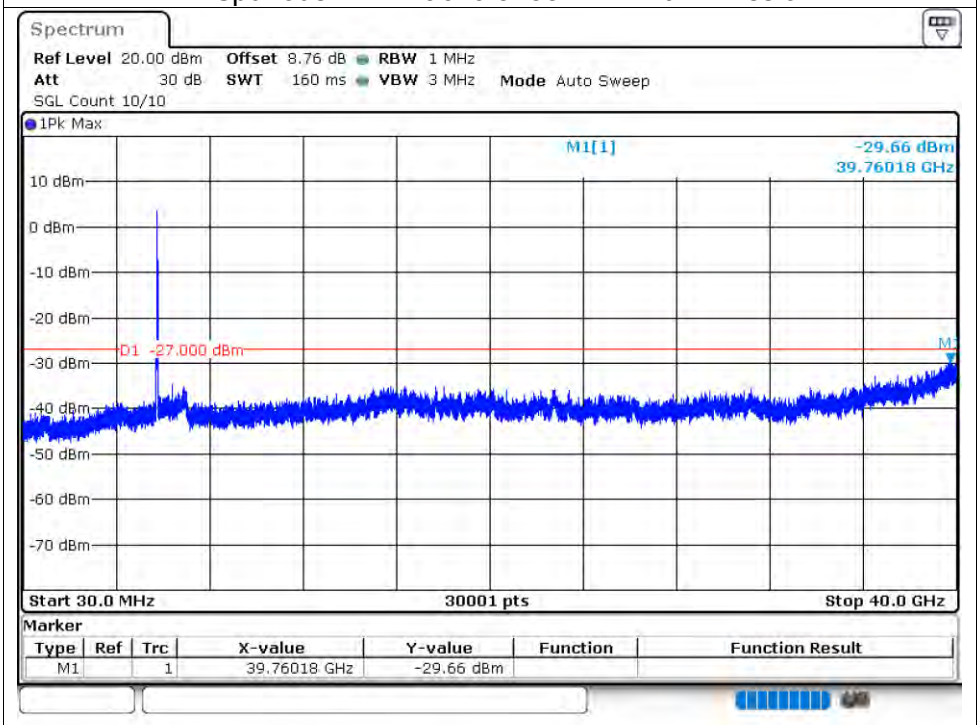
Tx. Spurious NVNT ac20 5785MHz Ant1 Emission



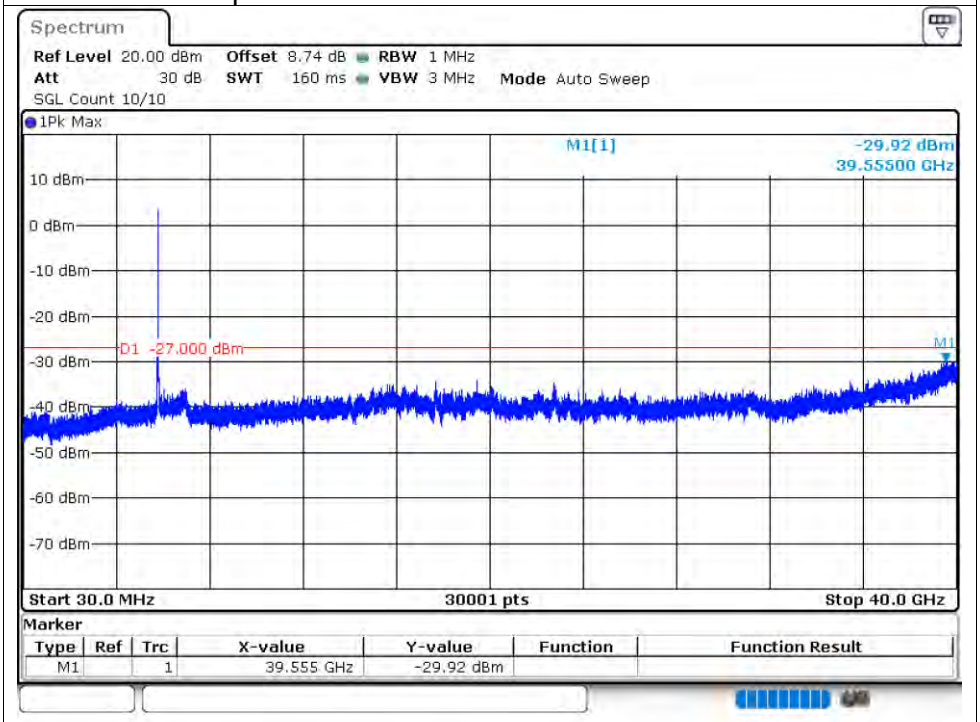
Tx. Spurious NVNT ac20 5825MHz Ant1 Emission



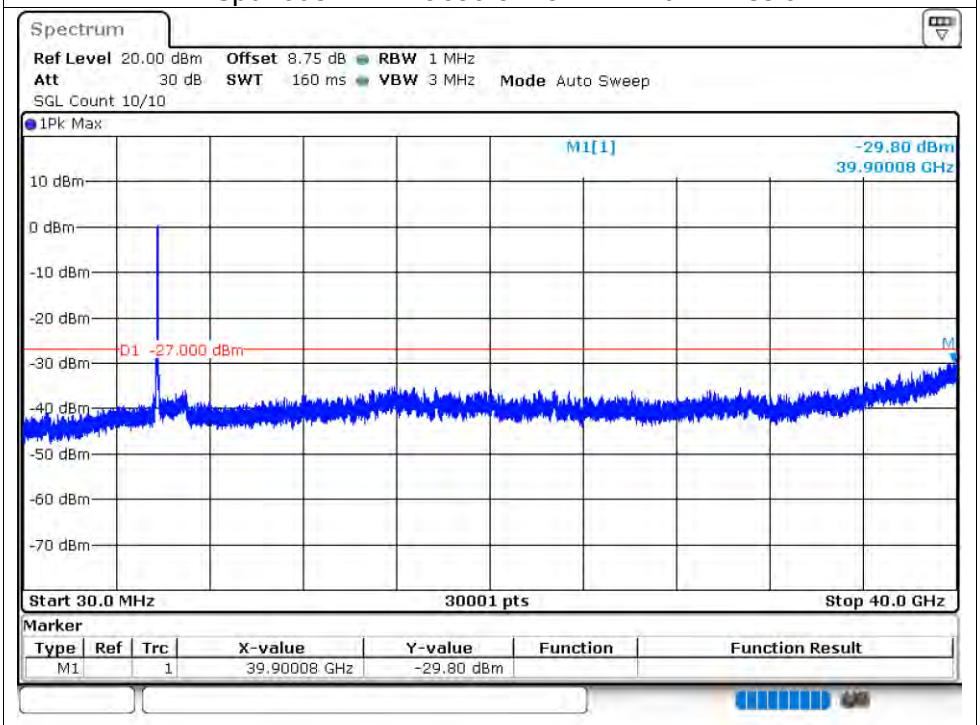
Tx. Spurious NVNT ac40 5755MHz Ant1 Emission



Tx. Spurious NVNT ac40 5795MHz Ant1 Emission



Tx. Spurious NVNT ac80 5775MHz Ant1 Emission



END OF REPORT