



Appendix D_Test Data

for 5GWIFI B4

Conducted Measurement

Product Name: Tablet

Test Model: Tab 11 WIFI

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



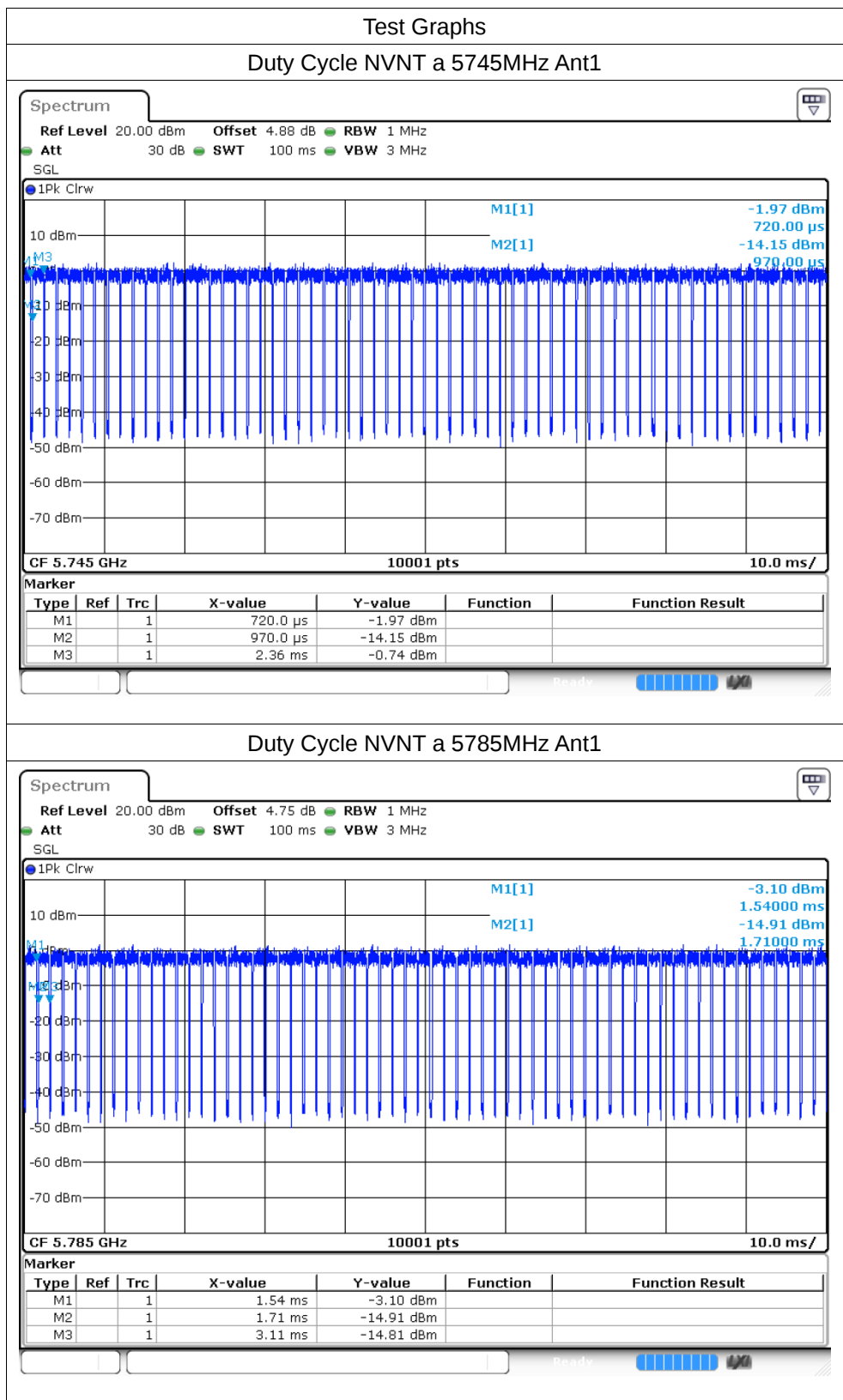
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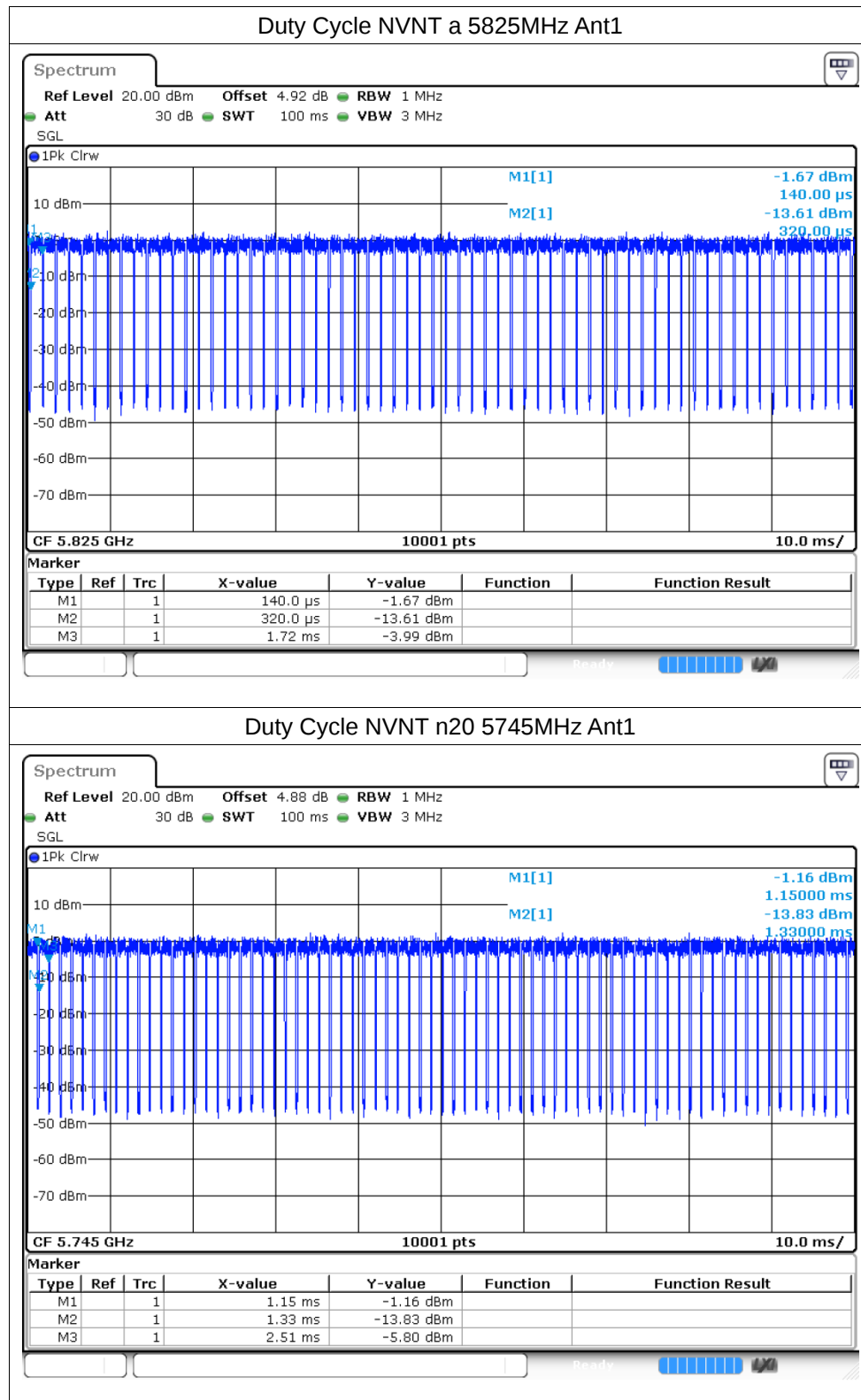
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1 Duty Cycle

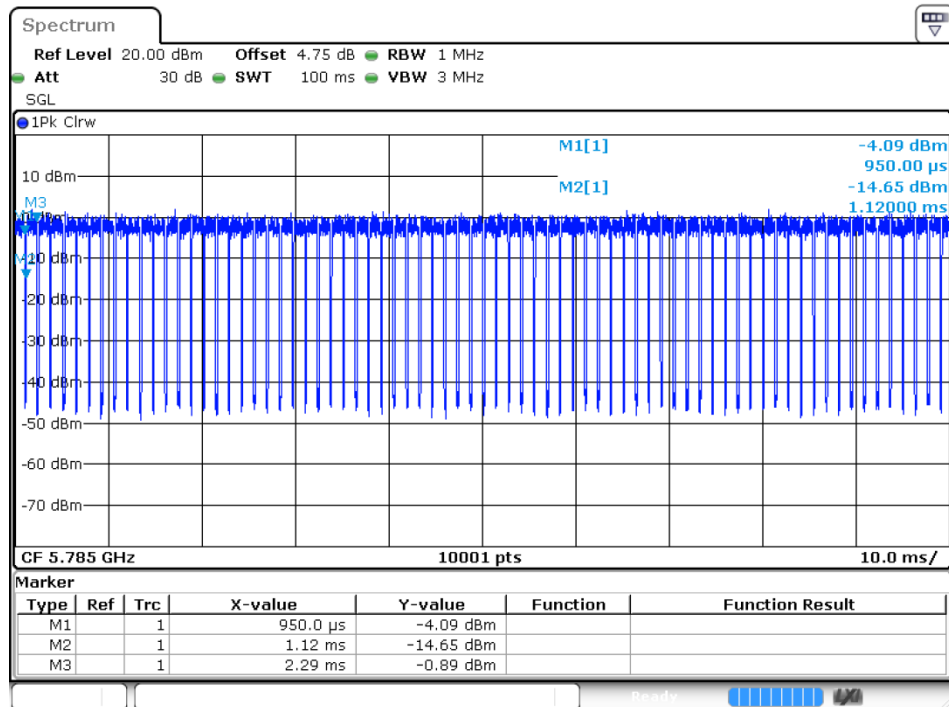
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
802.11a	5745	Ant1	88.46	0.53	0.72
802.11a	5785	Ant1	88.4	0.54	0.71
802.11a	5825	Ant1	88.68	0.52	0.71
802.11n20	5745	Ant1	87.19	0.6	0.85
802.11n20	5785	Ant1	87.05	0.6	0.85
802.11n20	5825	Ant1	87.29	0.59	0.85
802.11n40	5755	Ant1	76.87	1.14	1.69
802.11n40	5795	Ant1	76.86	1.14	1.72
802.11ac20	5745	Ant1	86.96	0.61	0.84
802.11ac20	5785	Ant1	87.22	0.59	0.84
802.11ac20	5825	Ant1	86.98	0.61	0.85
802.11ac40	5755	Ant1	77	1.13	1.67
802.11ac40	5795	Ant1	76.8	1.15	1.69
802.11ac80	5775	Ant1	61.72	2.1	0.85



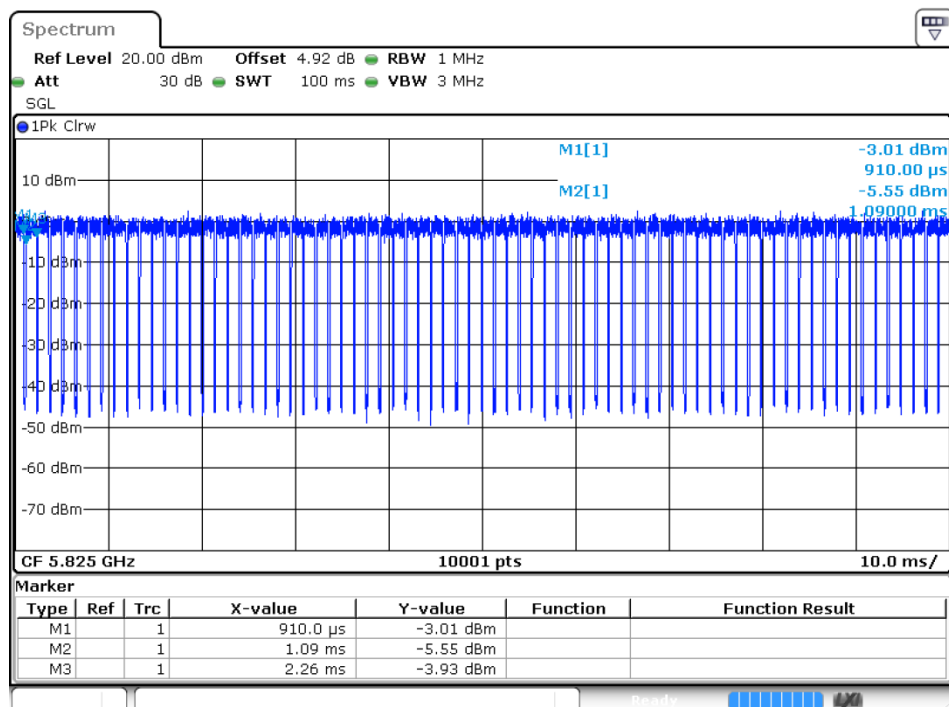


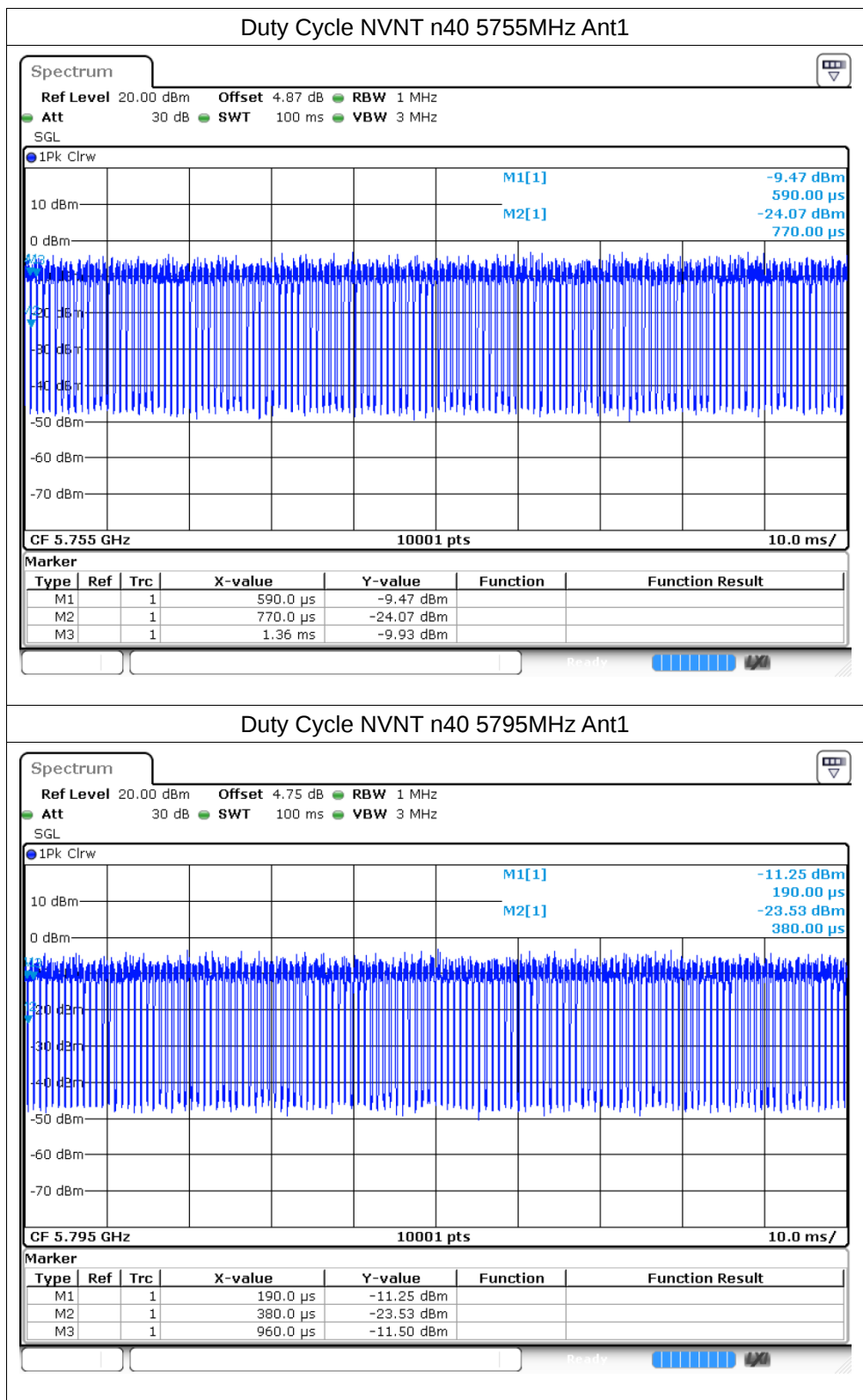


Duty Cycle NVNT n20 5785MHz Ant1



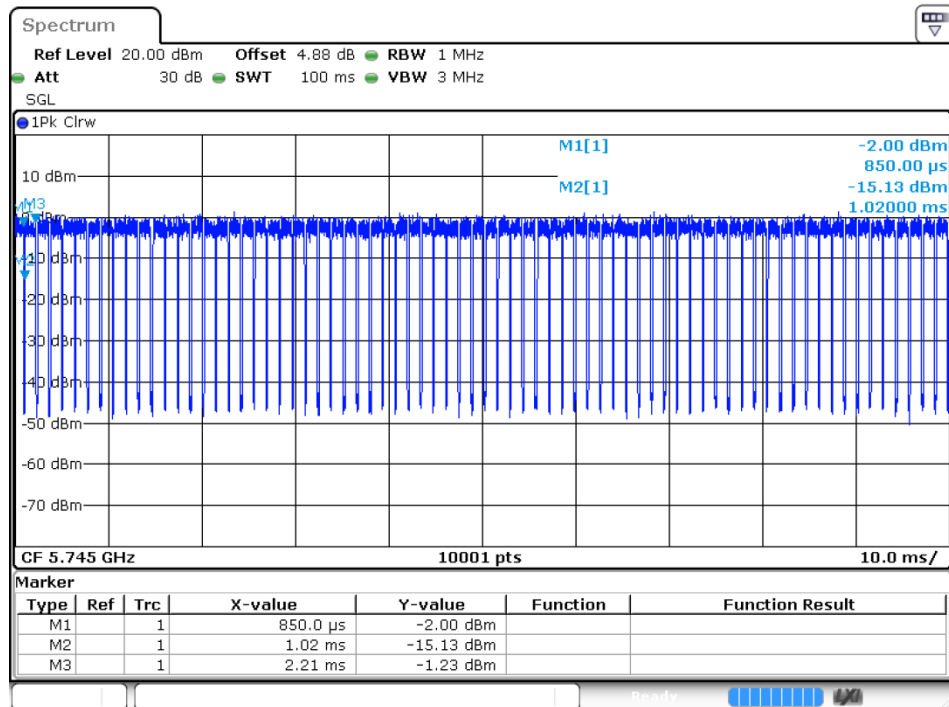
Duty Cycle NVNT n20 5825MHz Ant1



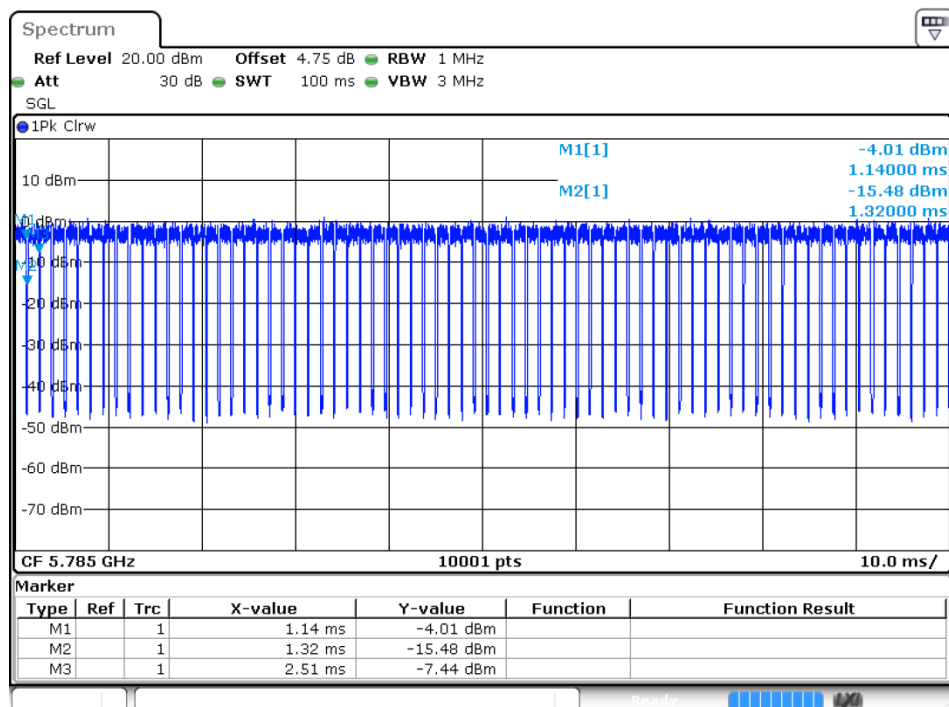


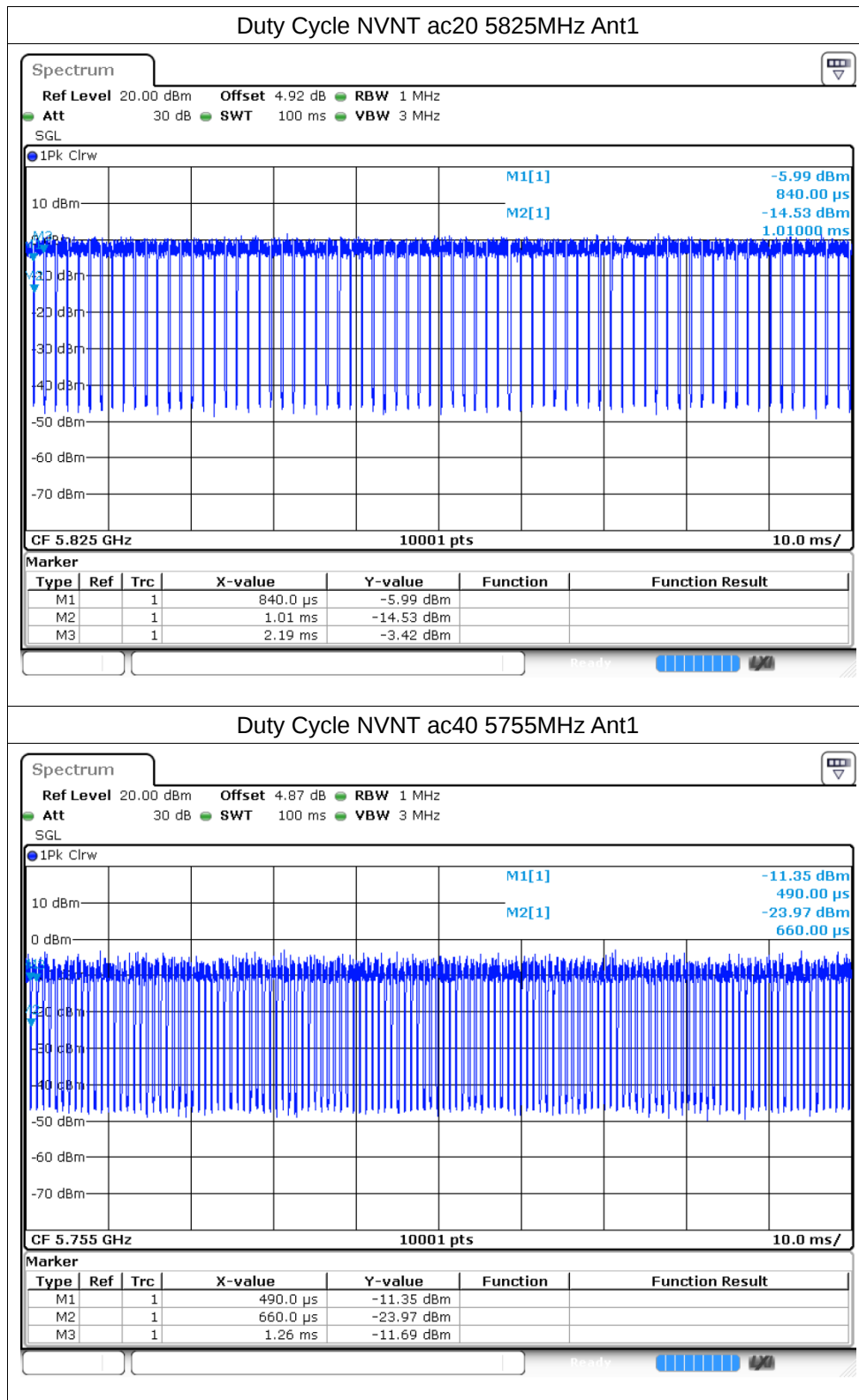


Duty Cycle NVNT ac20 5745MHz Ant1



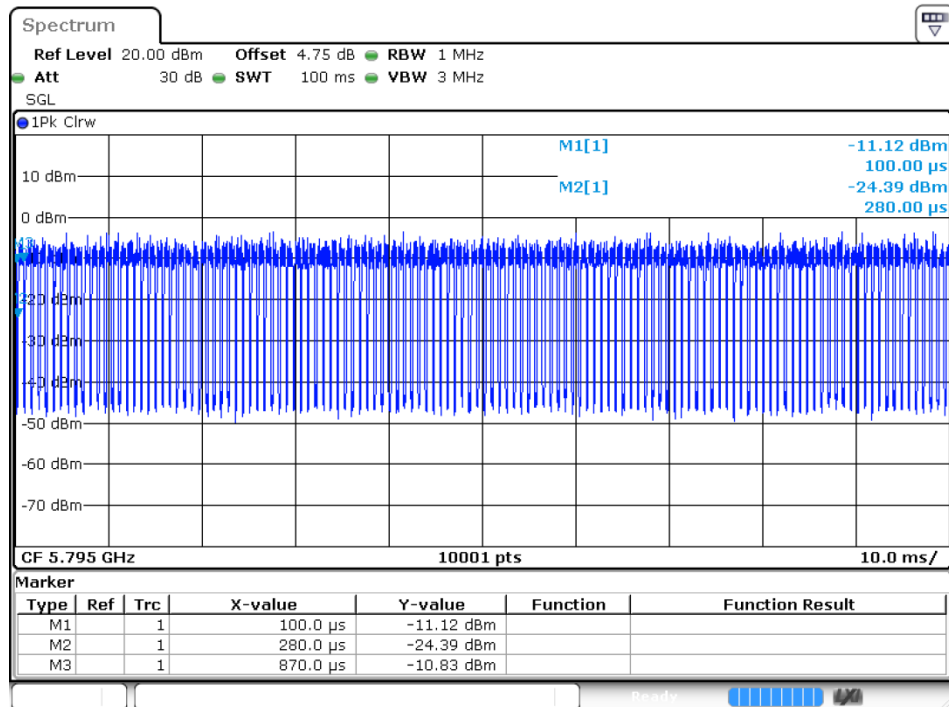
Duty Cycle NVNT ac20 5785MHz Ant1



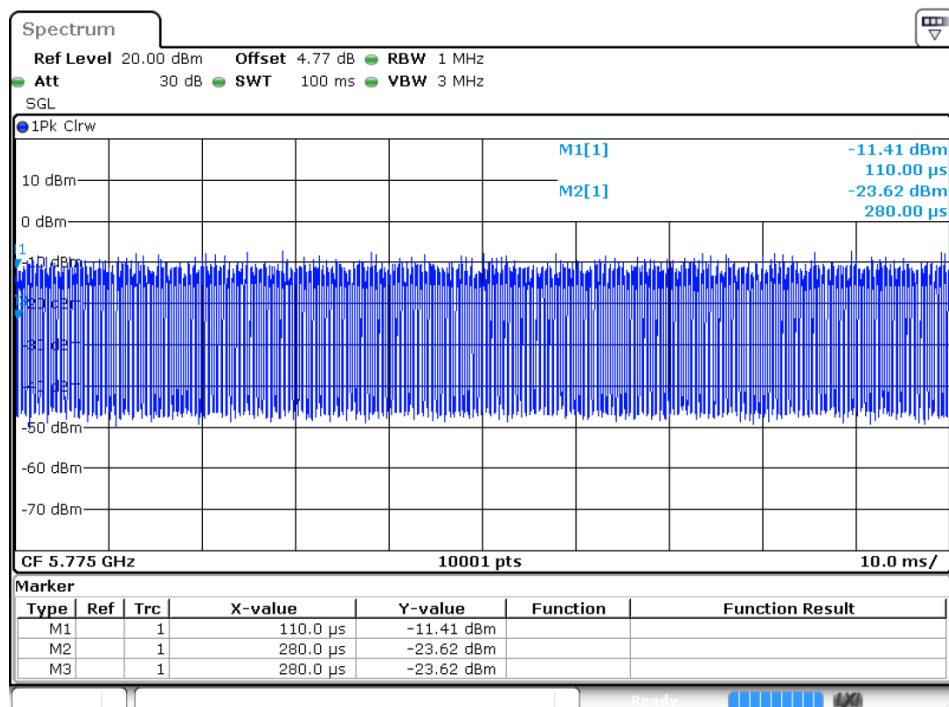




Duty Cycle NVNT ac40 5795MHz Ant1



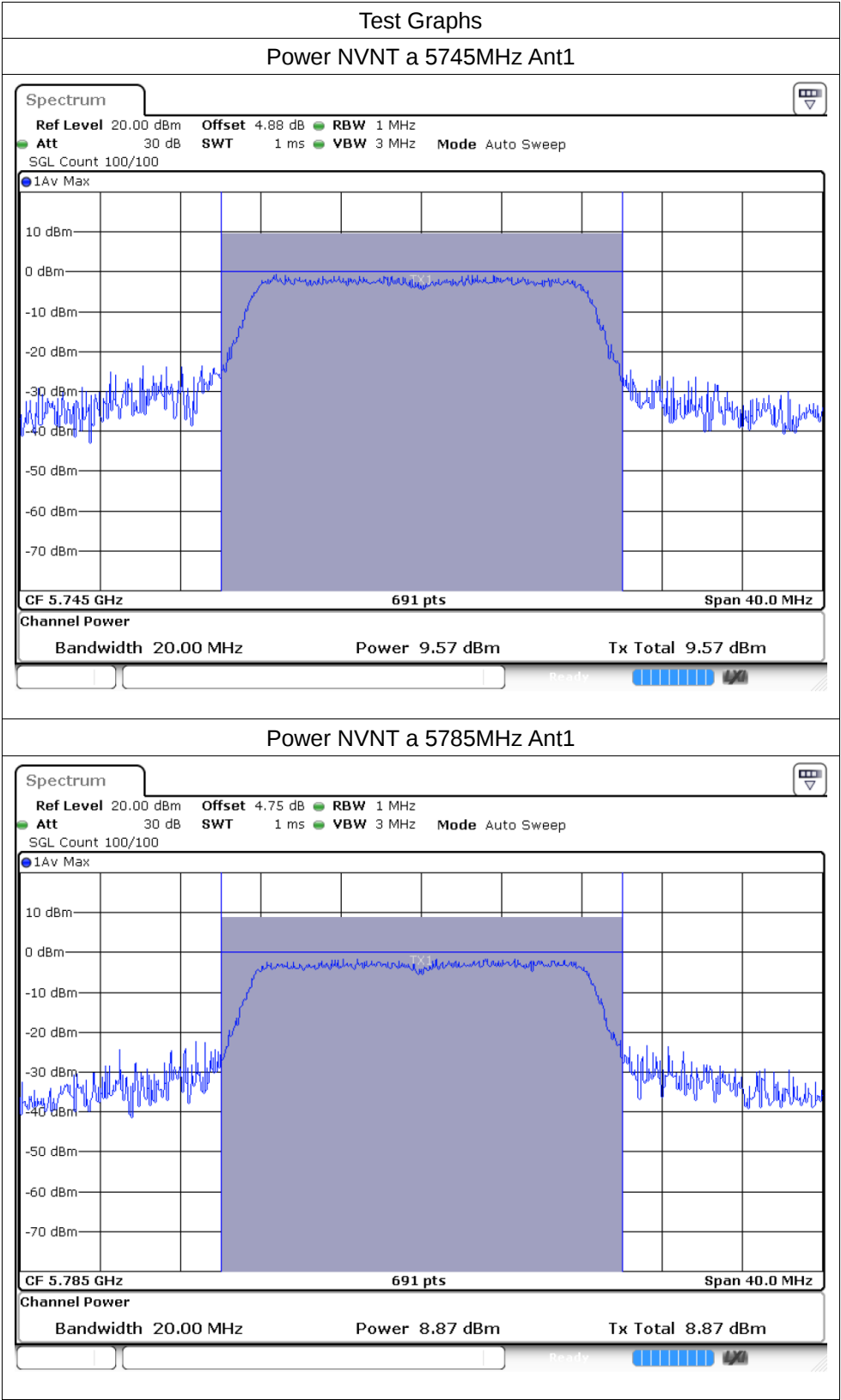
Duty Cycle NVNT ac80 5775MHz Ant1

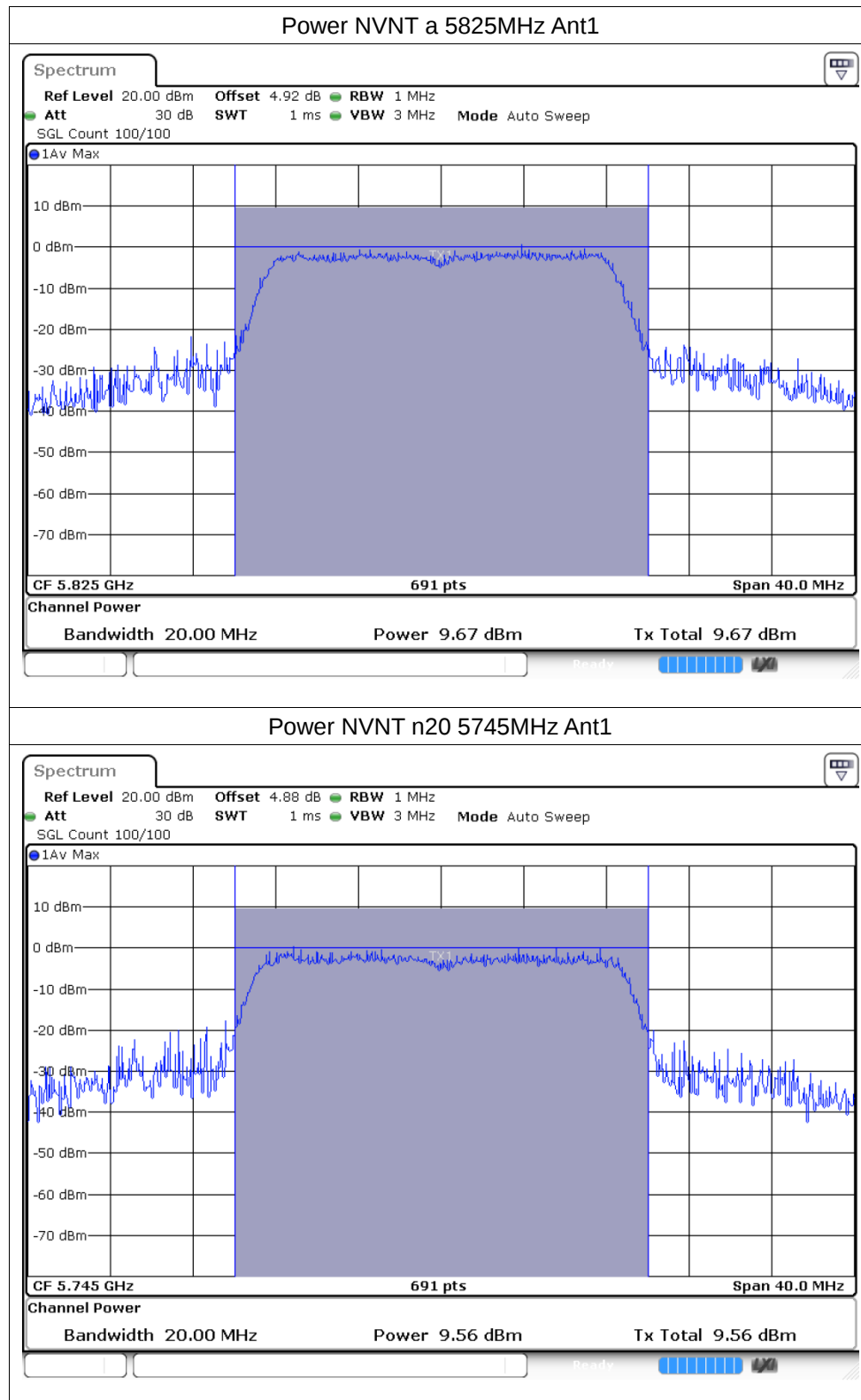


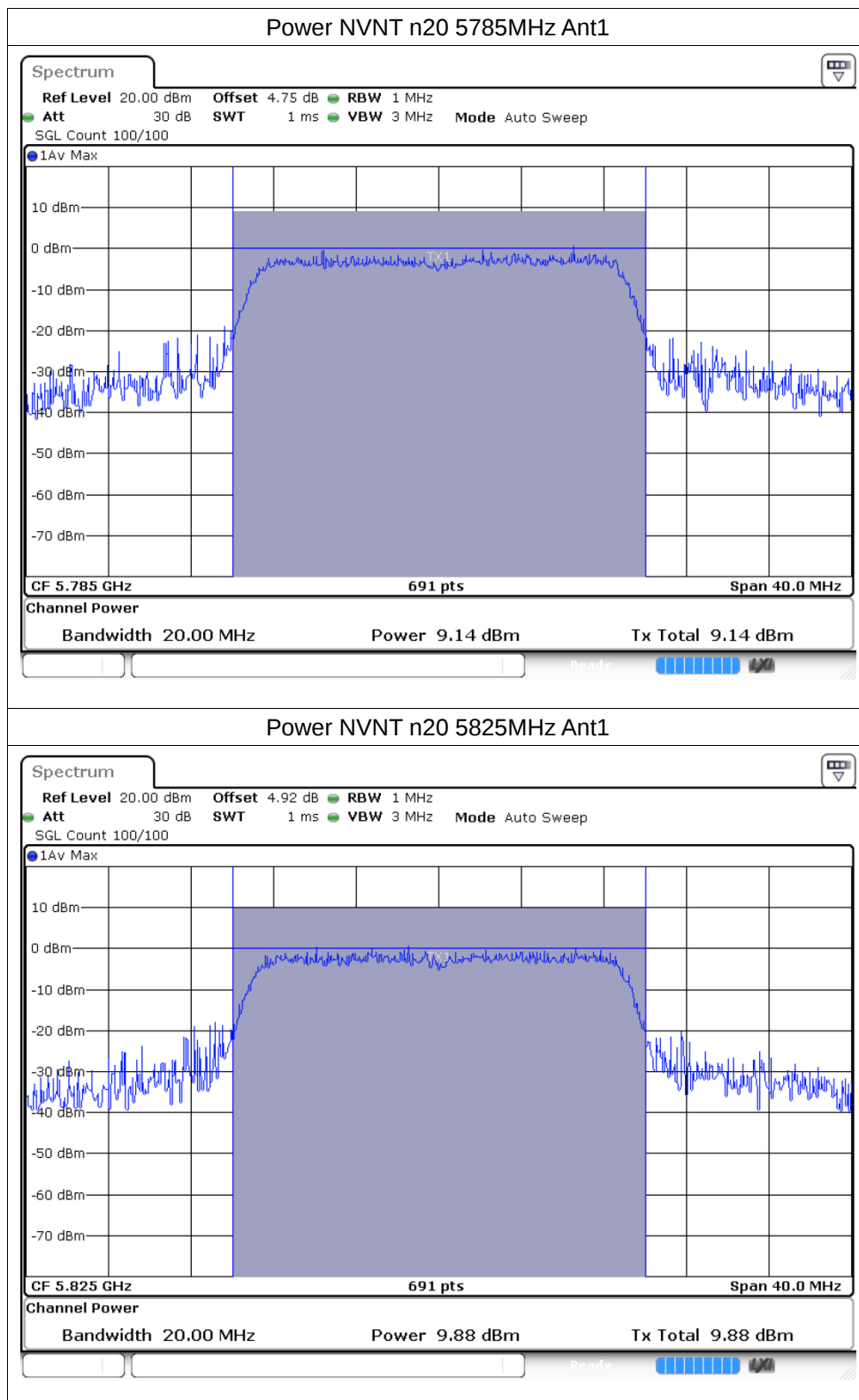


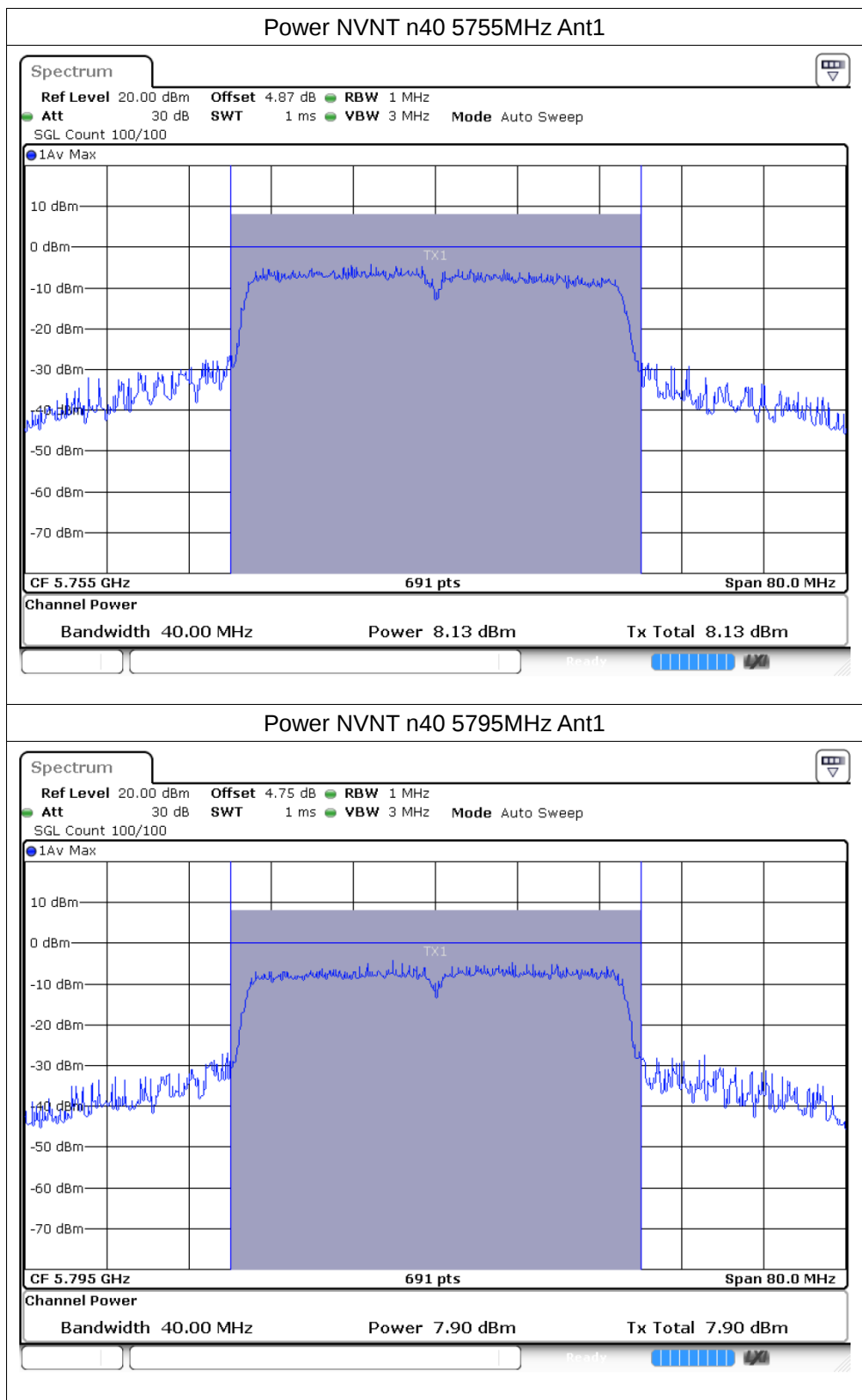
2 Maximum Conducted Output Power

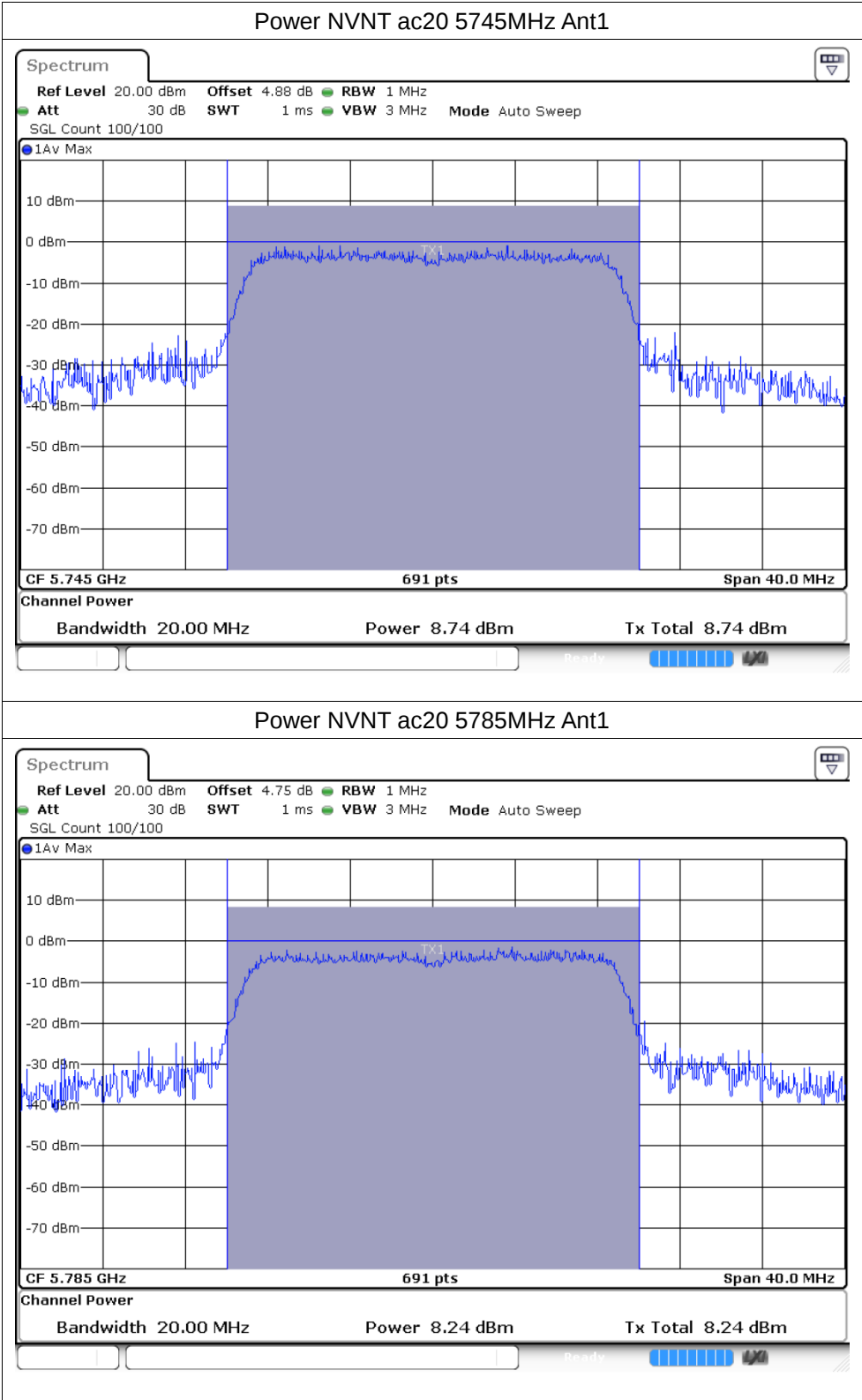
Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
802.11a	5745	Ant1	9.57	0.53	10.1	30	Pass
802.11a	5785	Ant1	8.87	0.54	9.41	30	Pass
802.11a	5825	Ant1	9.67	0.52	10.19	30	Pass
802.11n20	5745	Ant1	9.56	0.6	10.16	30	Pass
802.11n20	5785	Ant1	9.14	0.6	9.74	30	Pass
802.11n20	5825	Ant1	9.88	0.59	10.47	30	Pass
802.11n40	5755	Ant1	8.13	1.14	9.27	30	Pass
802.11n40	5795	Ant1	7.9	1.14	9.04	30	Pass
802.11ac20	5745	Ant1	8.74	0.61	9.35	30	Pass
802.11ac20	5785	Ant1	8.24	0.59	8.83	30	Pass
802.11ac20	5825	Ant1	9	0.61	9.61	30	Pass
802.11ac40	5755	Ant1	8.25	1.13	9.38	30	Pass
802.11ac40	5795	Ant1	7.94	1.15	9.09	30	Pass
802.11ac80	5775	Ant1	8.2	2.1	10.3	30	Pass

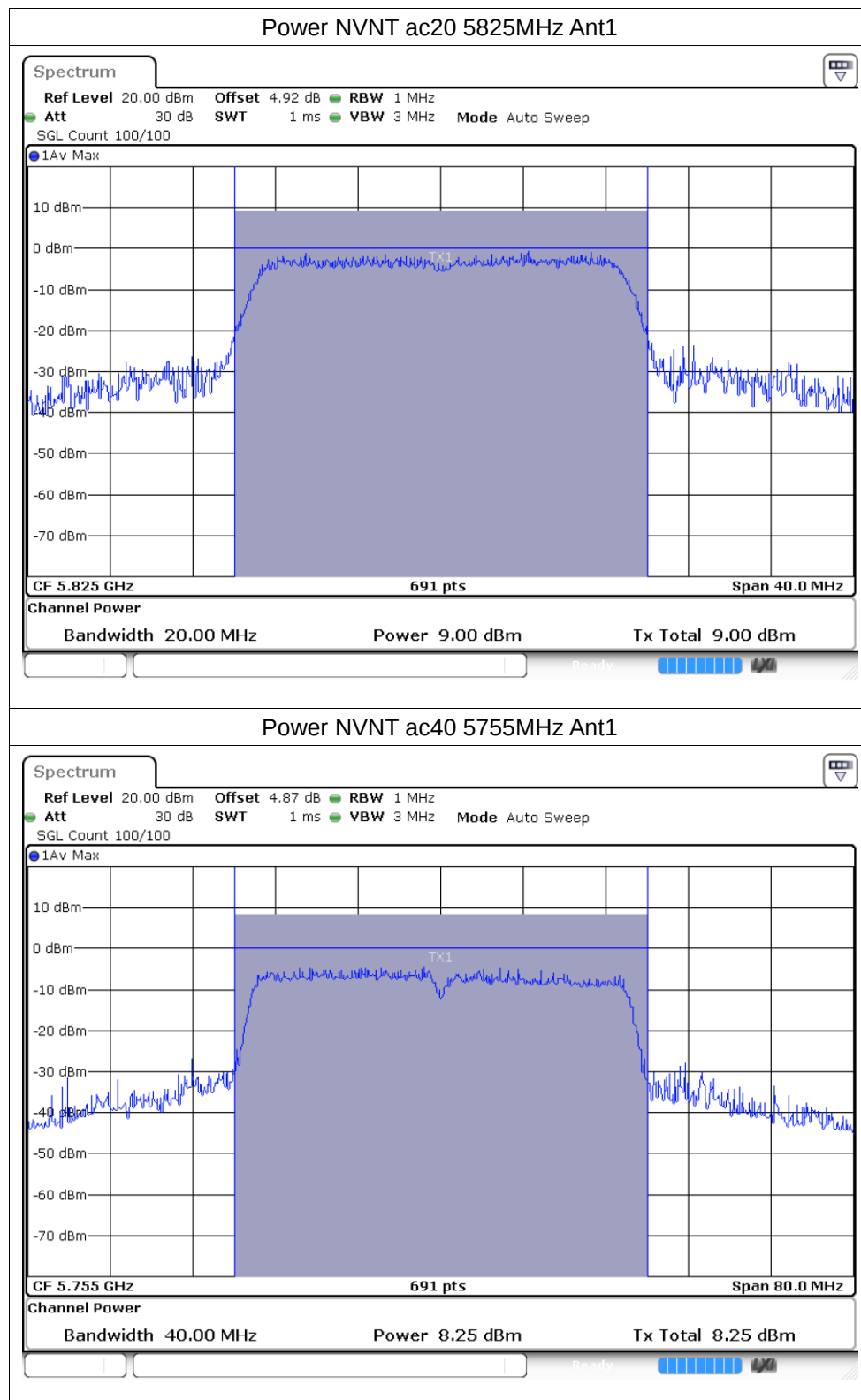


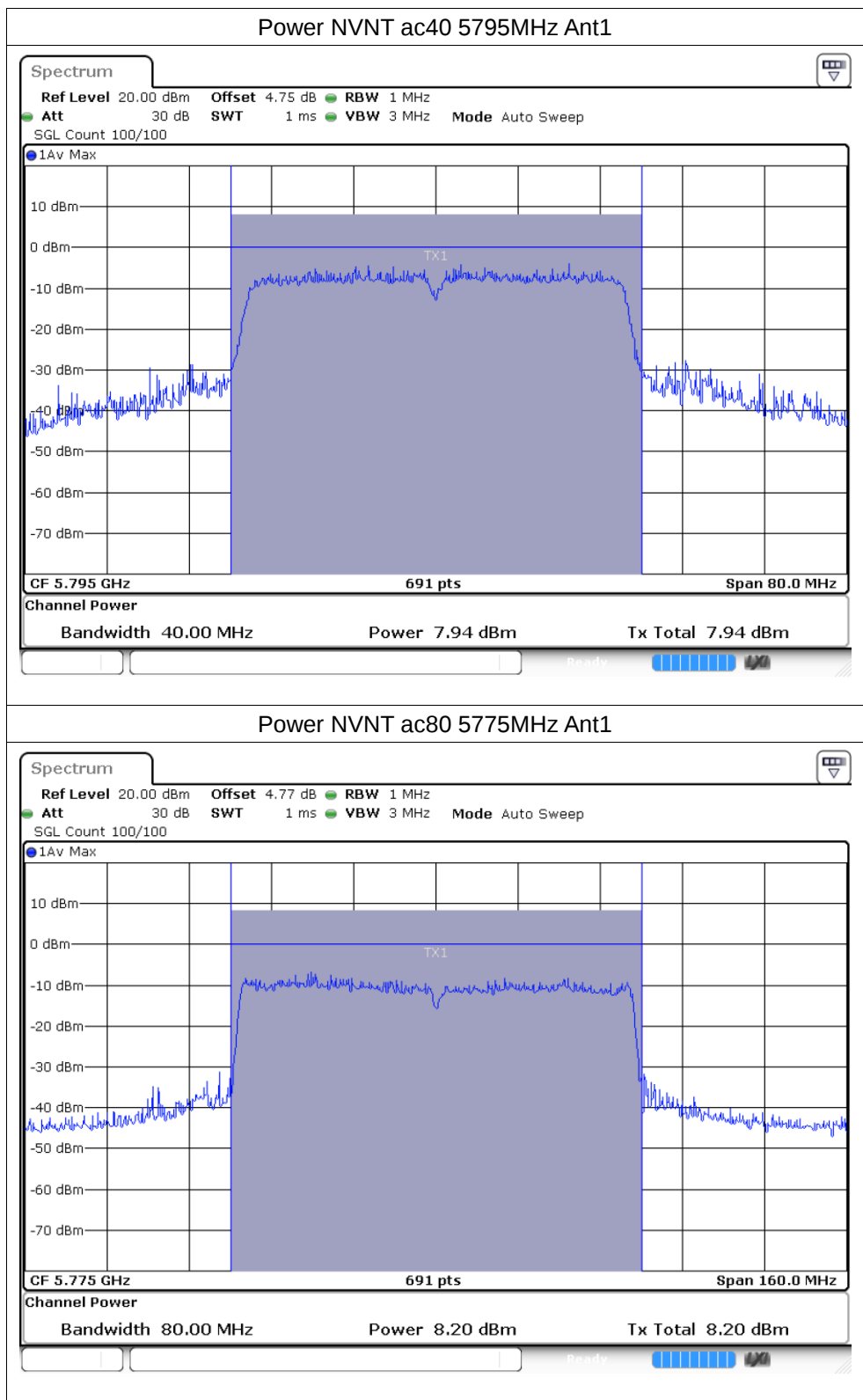














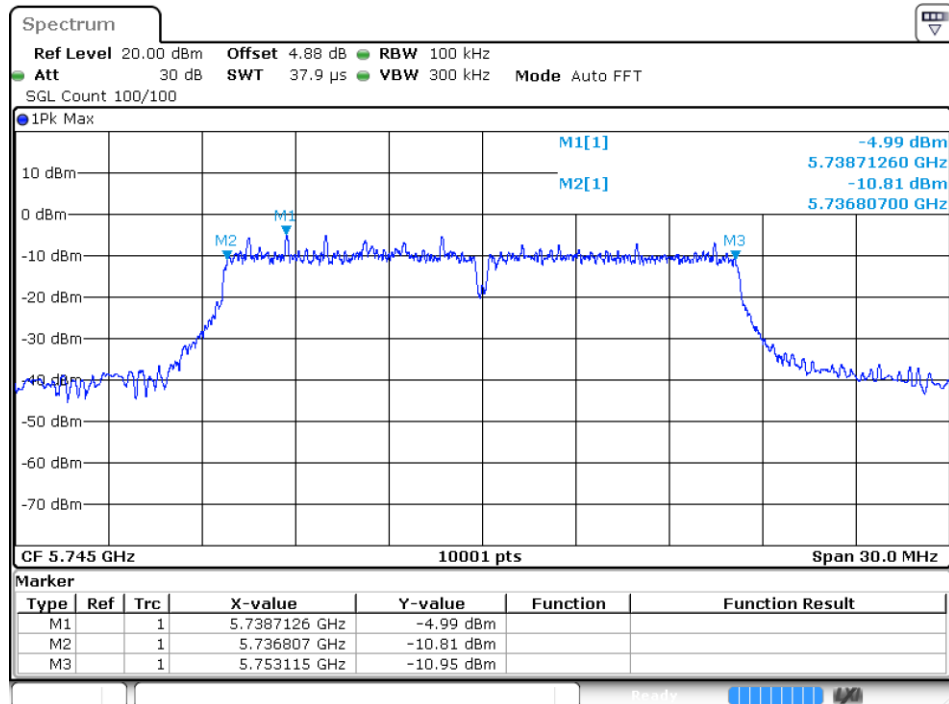
3 -6dB Bandwidth

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
802.11a	5745	Ant1	16.308	0.5	Pass
802.11a	5785	Ant1	16.323	0.5	Pass
802.11a	5825	Ant1	16.335	0.5	Pass
802.11n20	5745	Ant1	17.571	0.5	Pass
802.11n20	5785	Ant1	17.406	0.5	Pass
802.11n20	5825	Ant1	17.145	0.5	Pass
802.11n40	5755	Ant1	35.358	0.5	Pass
802.11n40	5795	Ant1	36.012	0.5	Pass
802.11ac20	5745	Ant1	17.556	0.5	Pass
802.11ac20	5785	Ant1	17.115	0.5	Pass
802.11ac20	5825	Ant1	17.151	0.5	Pass
802.11ac40	5755	Ant1	35.322	0.5	Pass
802.11ac40	5795	Ant1	35.55	0.5	Pass
802.11ac80	5775	Ant1	75.576	0.5	Pass

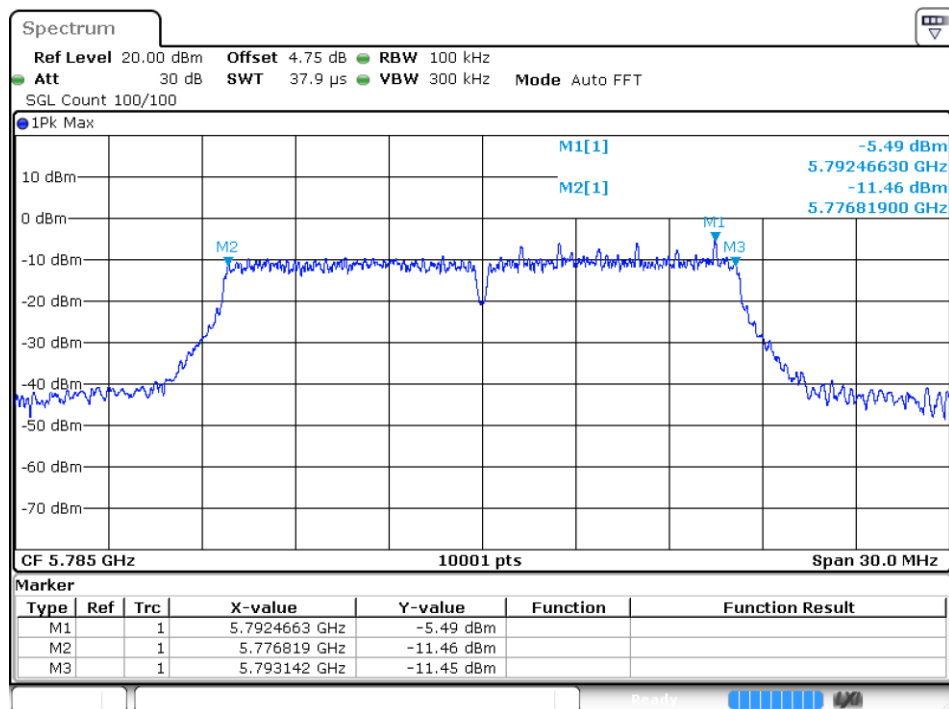


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1

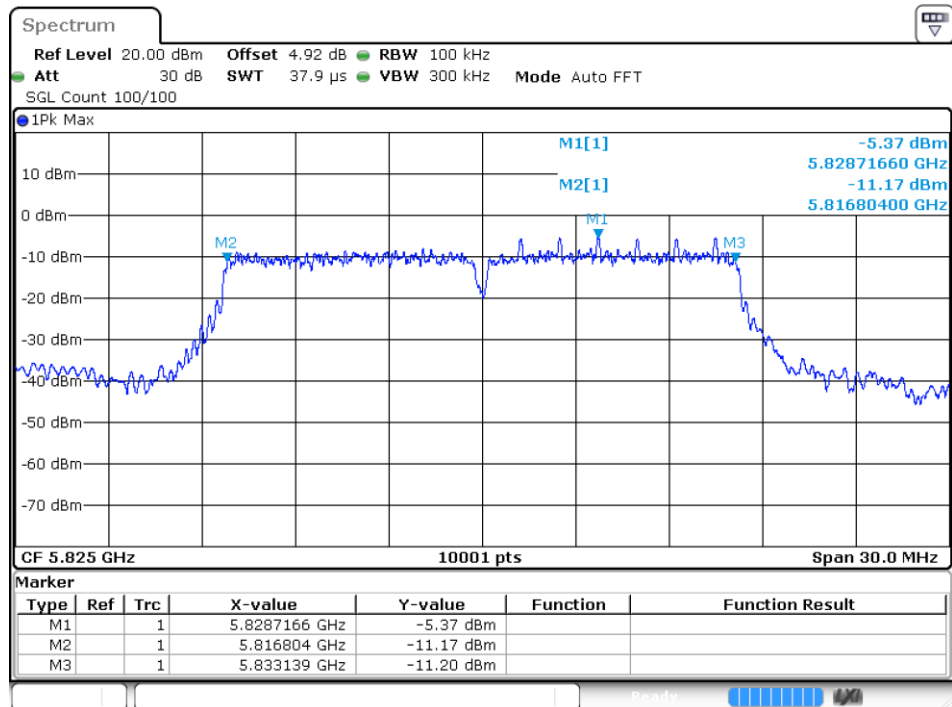


-6dB Bandwidth NVNT a 5785MHz Ant1

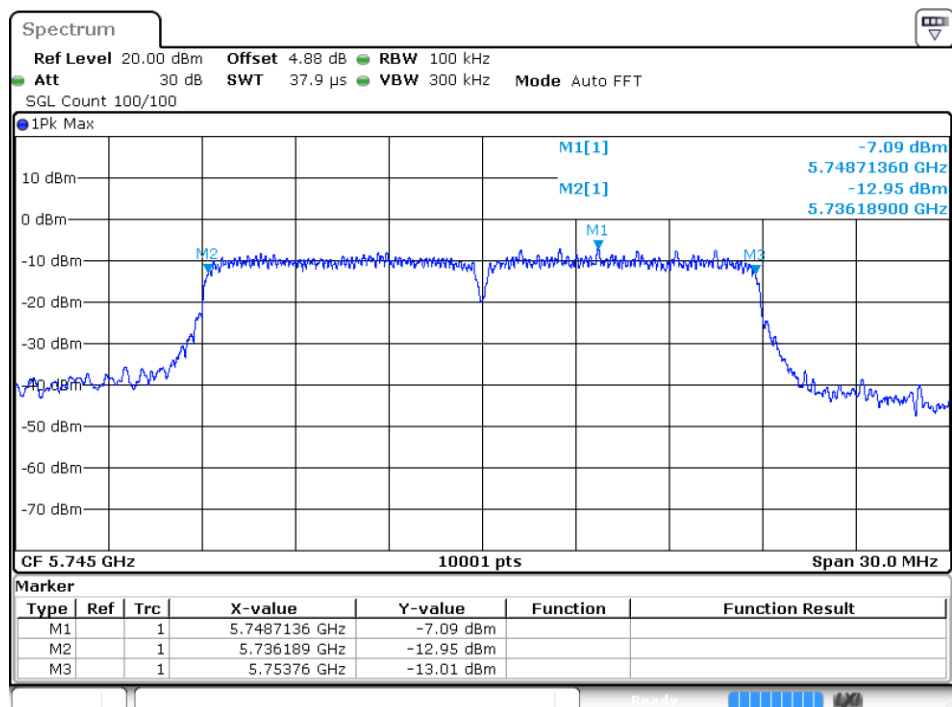


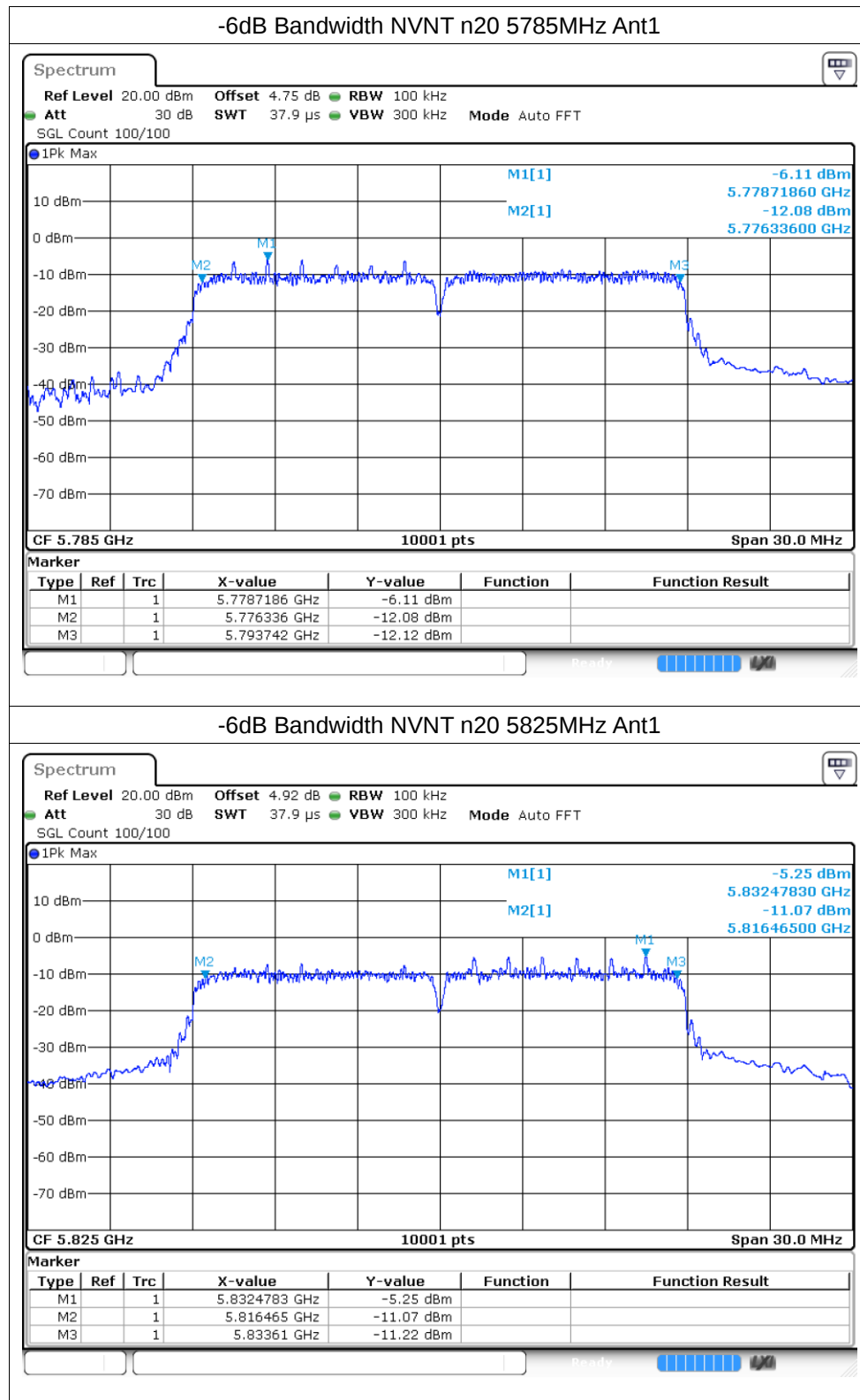


-6dB Bandwidth NVNT a 5825MHz Ant1



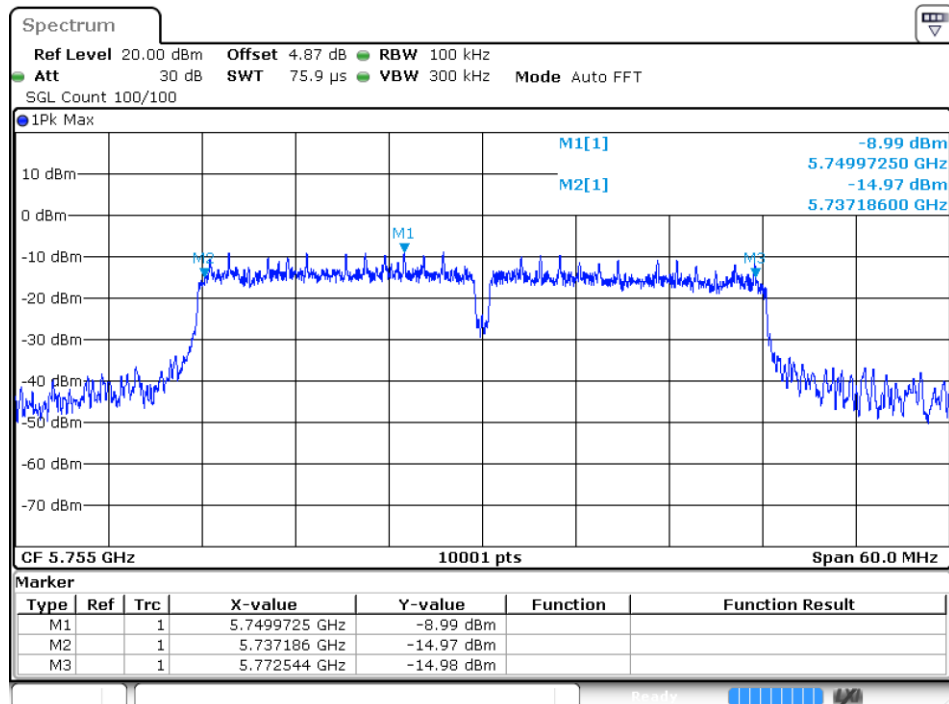
-6dB Bandwidth NVNT n20 5745MHz Ant1



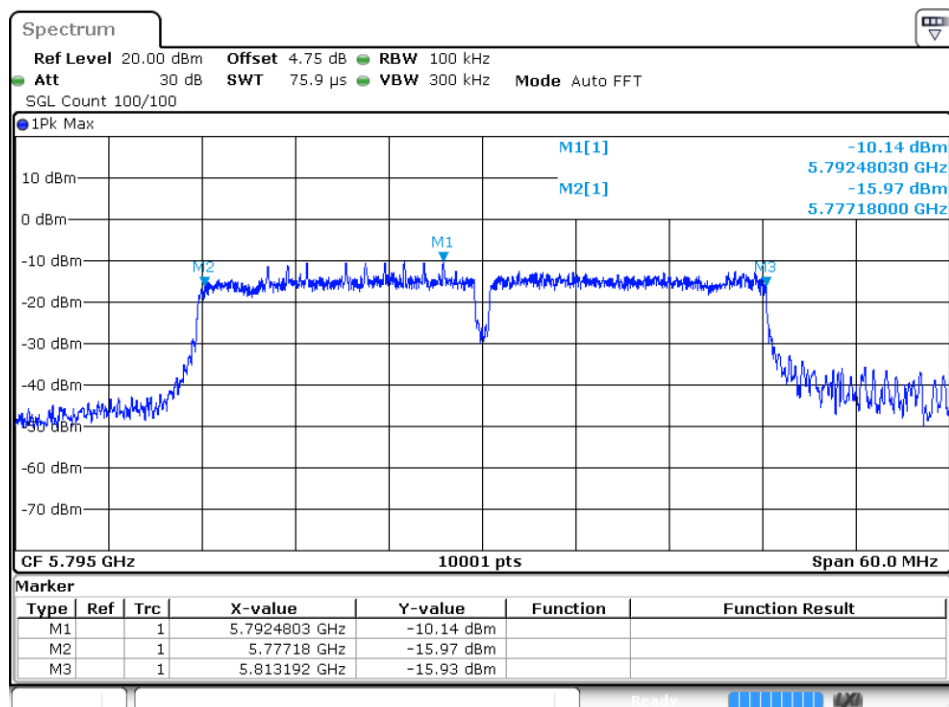




-6dB Bandwidth NVNT n40 5755MHz Ant1

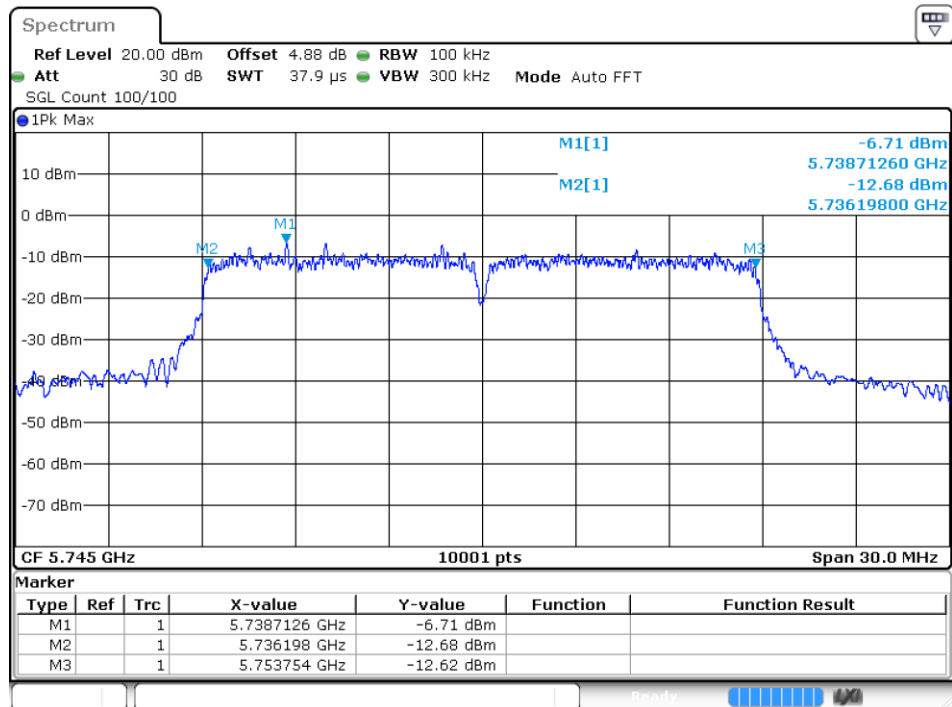


-6dB Bandwidth NVNT n40 5795MHz Ant1

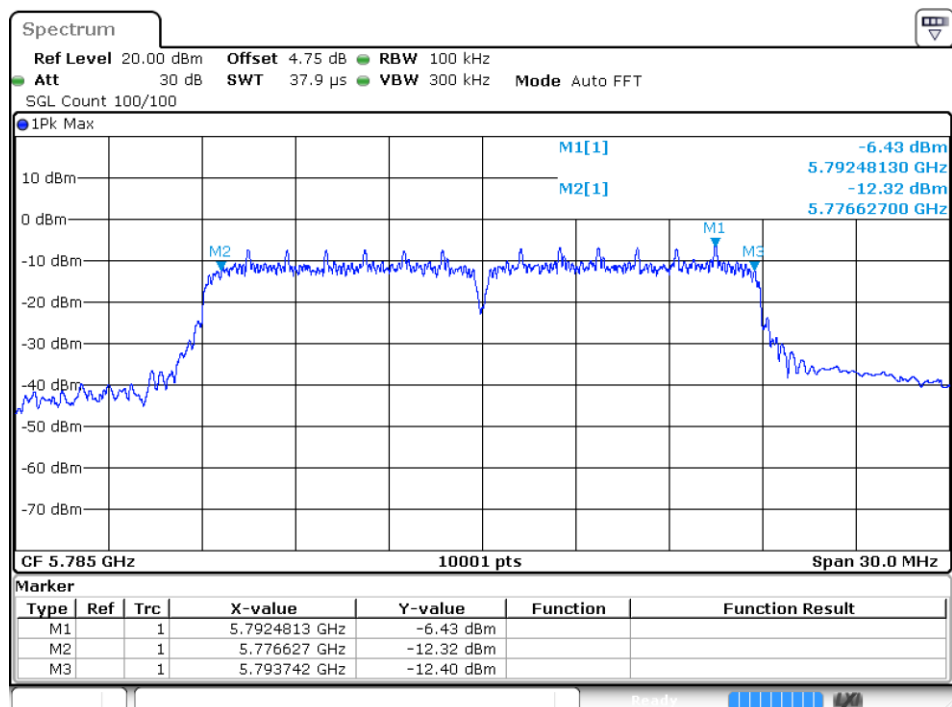




-6dB Bandwidth NVNT ac20 5745MHz Ant1

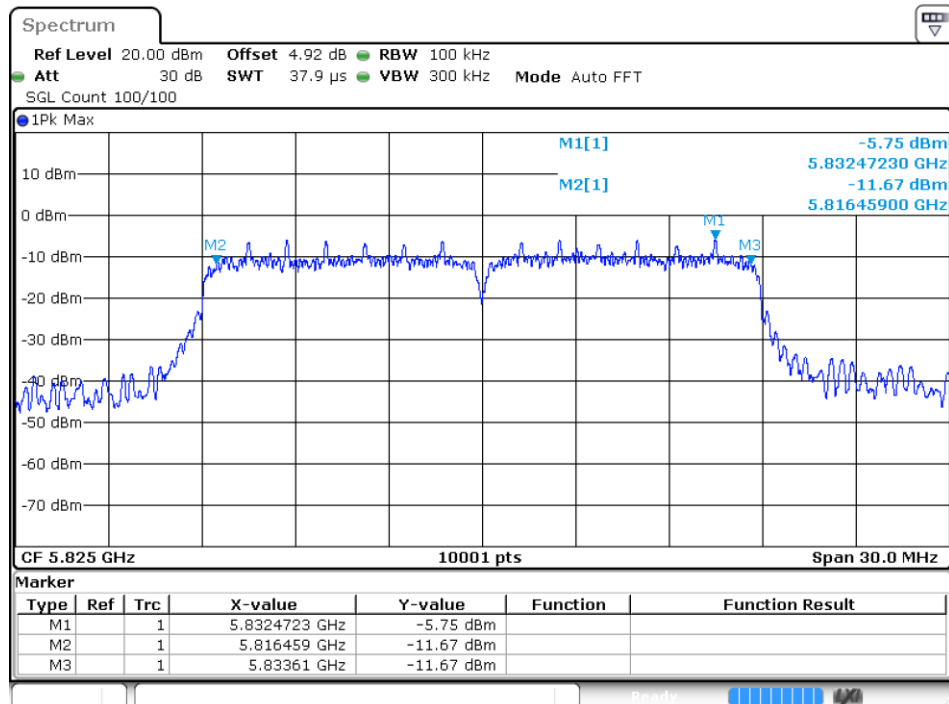


-6dB Bandwidth NVNT ac20 5785MHz Ant1

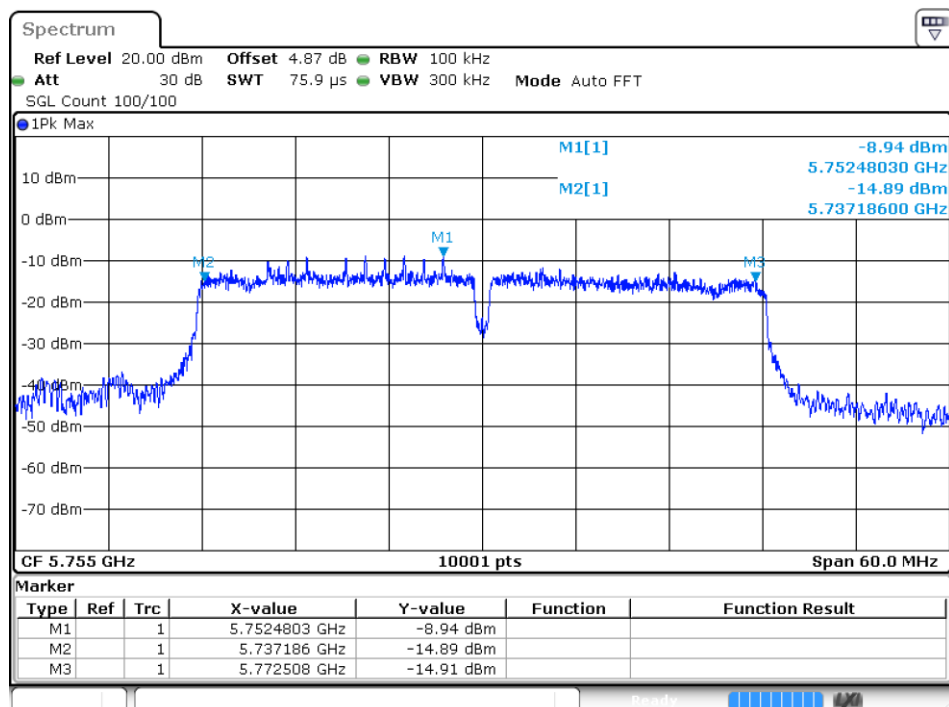




-6dB Bandwidth NVNT ac20 5825MHz Ant1

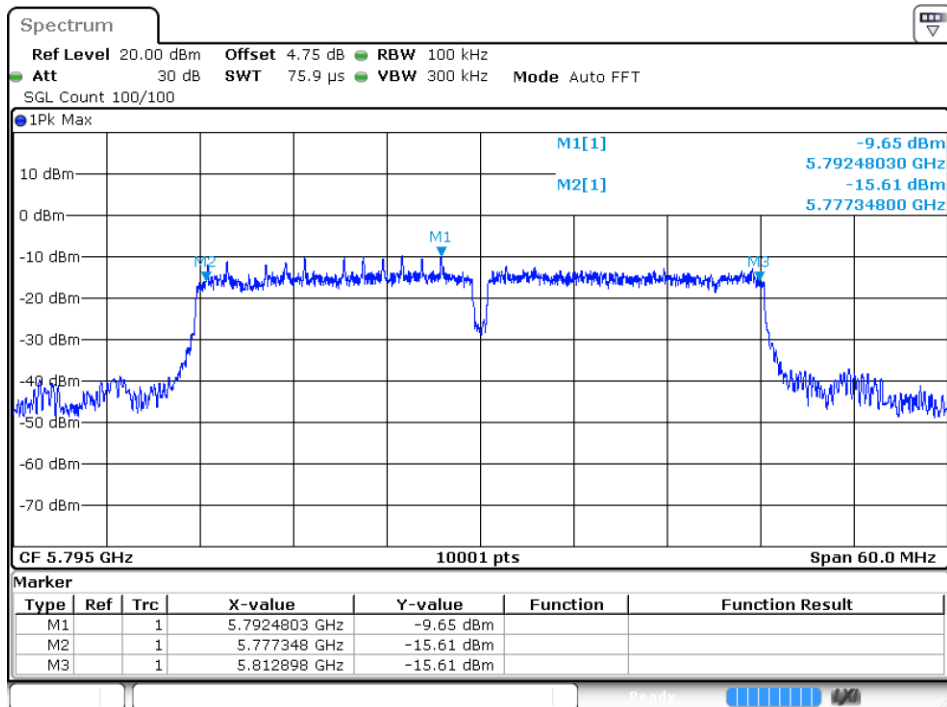


-6dB Bandwidth NVNT ac40 5755MHz Ant1

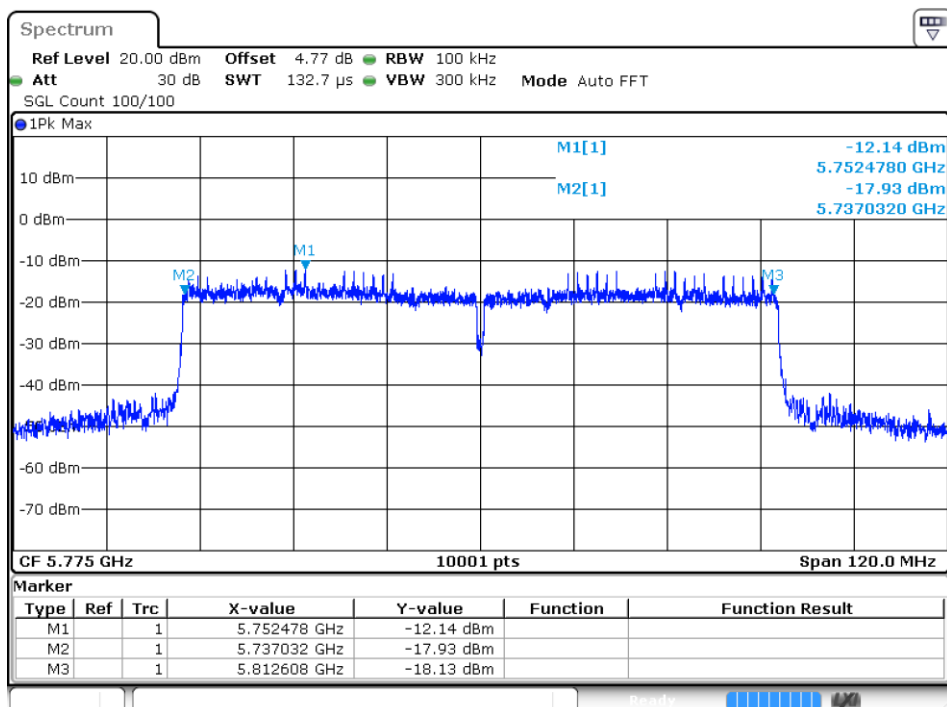




-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1





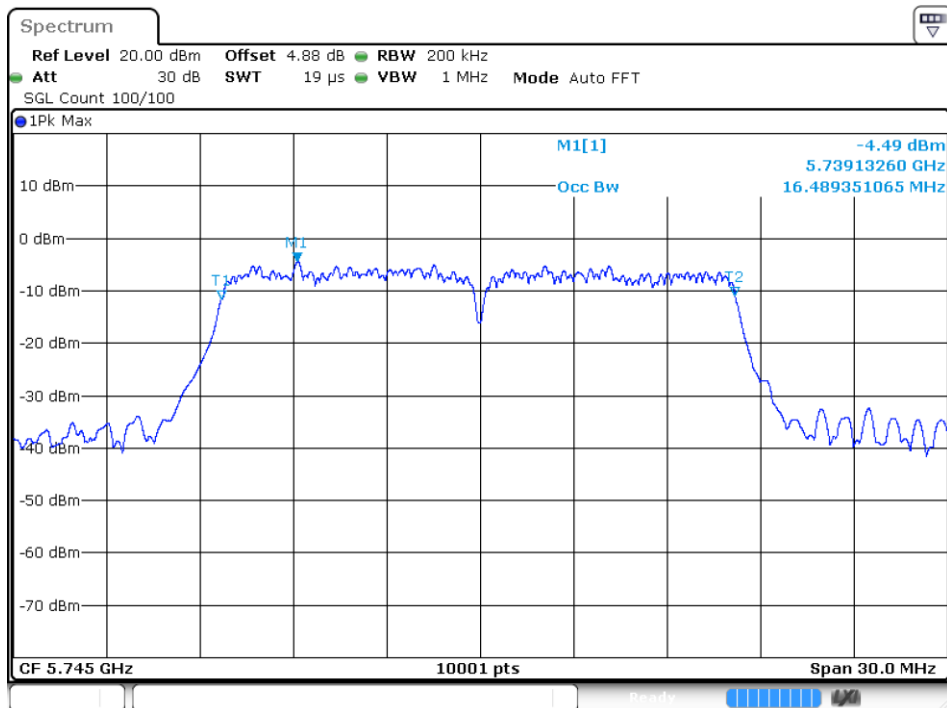
4 Occupied Channel Bandwidth

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
802.11a	5745	Ant1	16.489
802.11	5785	Ant1	16.615
802.11a	5825	Ant1	16.456
802.11n20	5745	Ant1	17.641
802.11n20	5785	Ant1	17.593
802.11n20	5825	Ant1	17.605
802.11n40	5755	Ant1	36.35
802.11n40	5795	Ant1	36.272
802.11ac20	5745	Ant1	17.587
802.11ac20	5785	Ant1	17.719
802.11ac20	5825	Ant1	17.572
802.11ac40	5755	Ant1	36.212
802.11ac40	5795	Ant1	36.296
802.11ac80	5775	Ant1	75.772

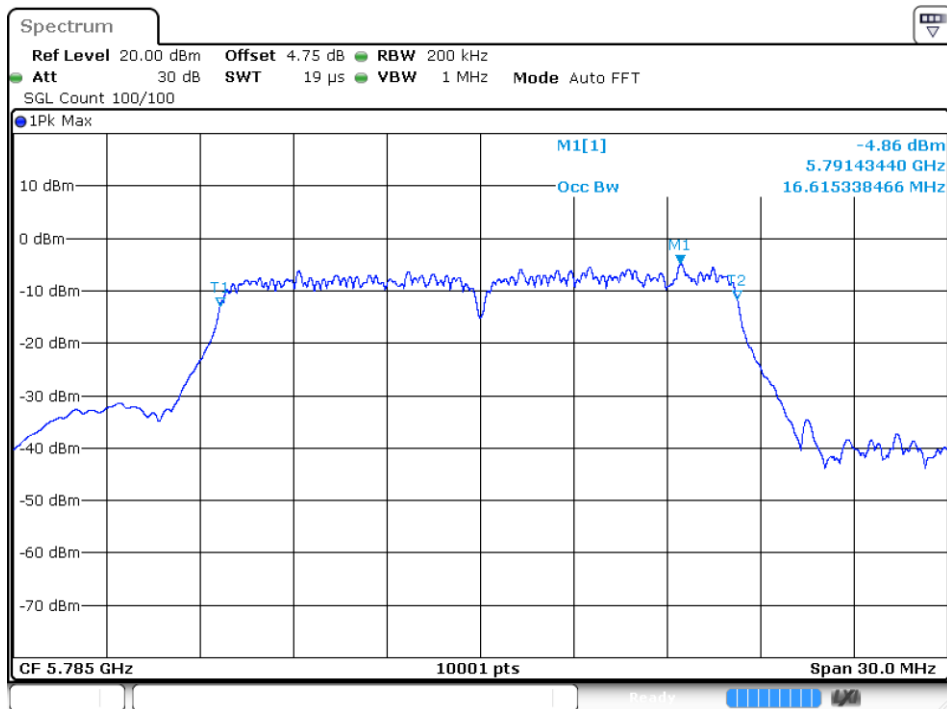


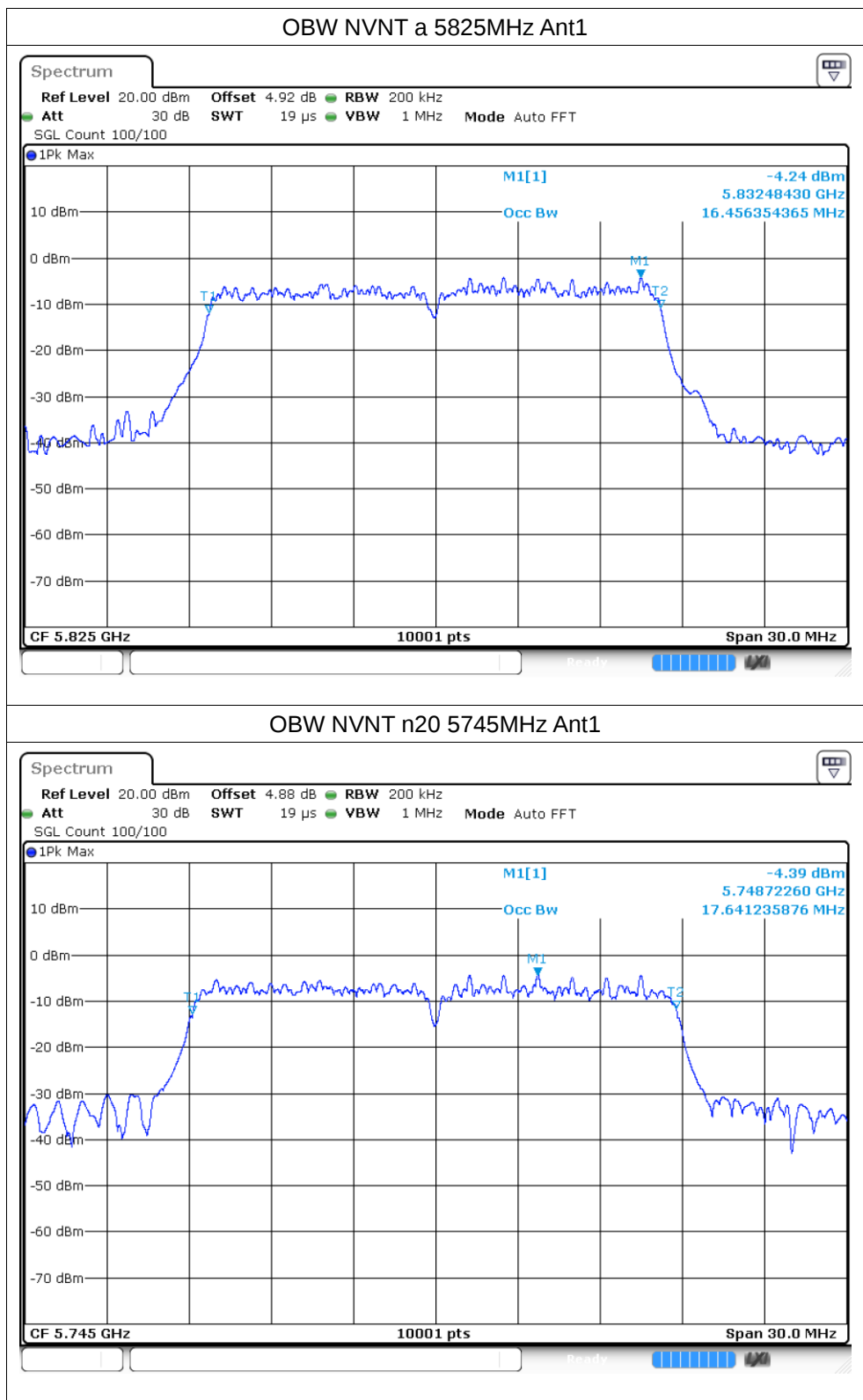
Test Graphs

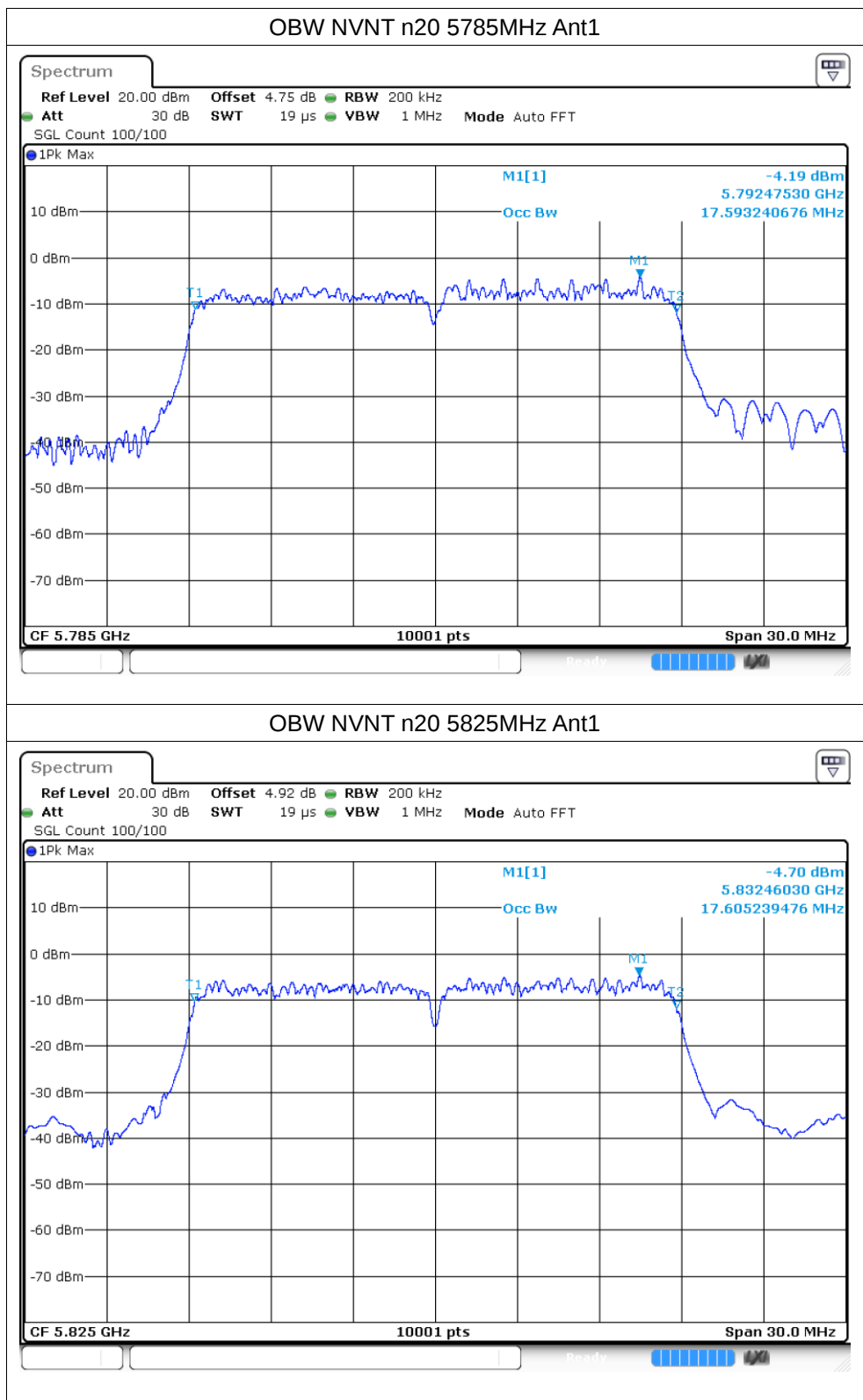
OBW NVNT a 5745MHz Ant1

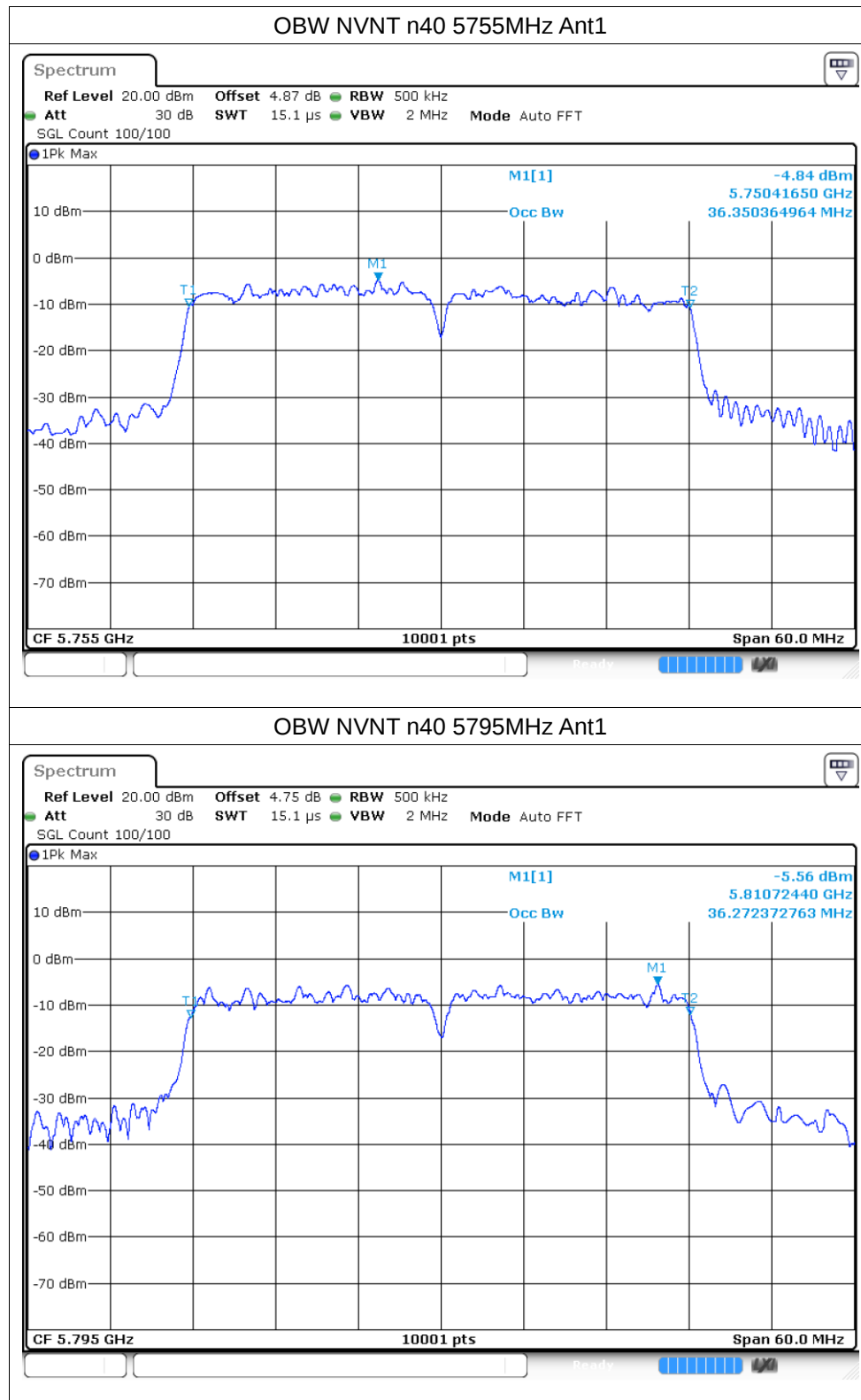


OBW NVNT a 5785MHz Ant1



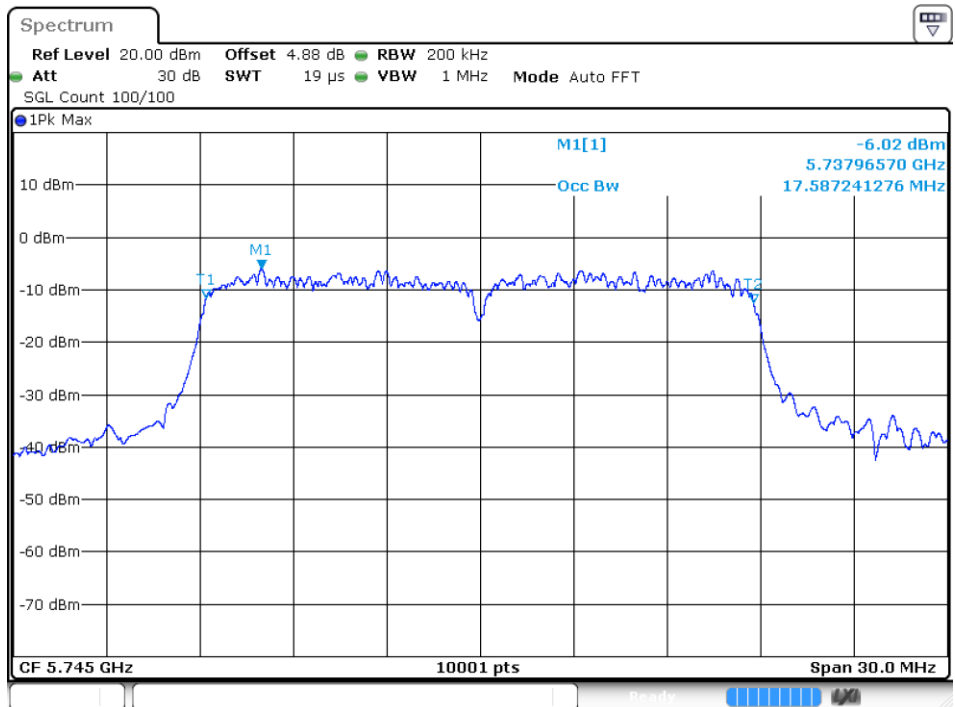




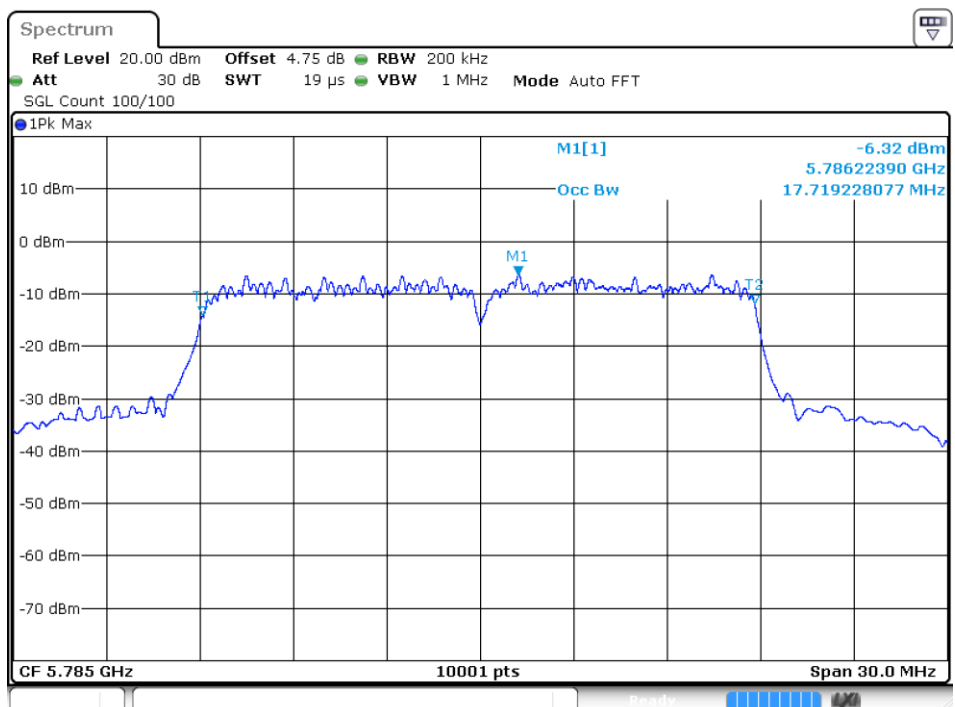


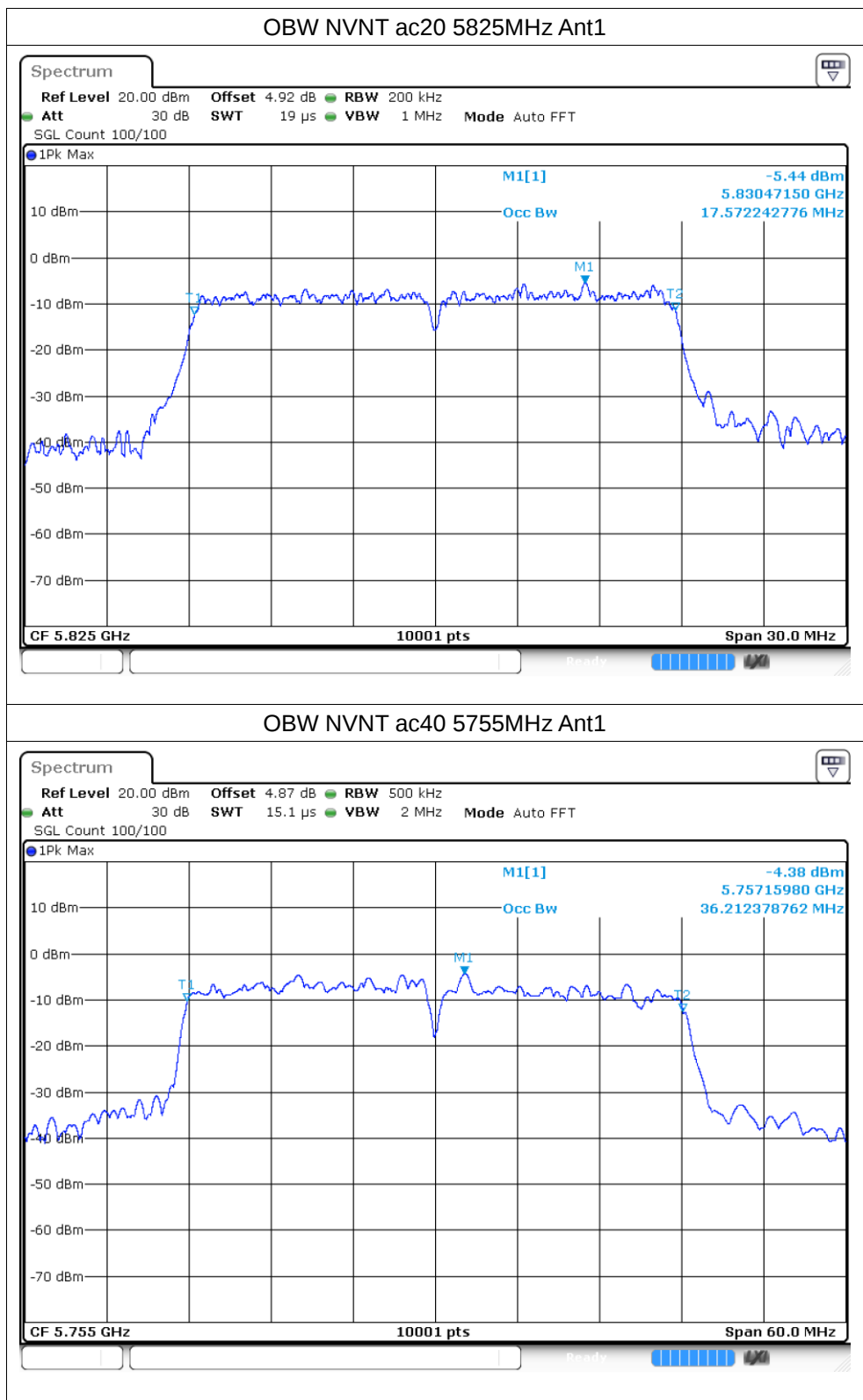


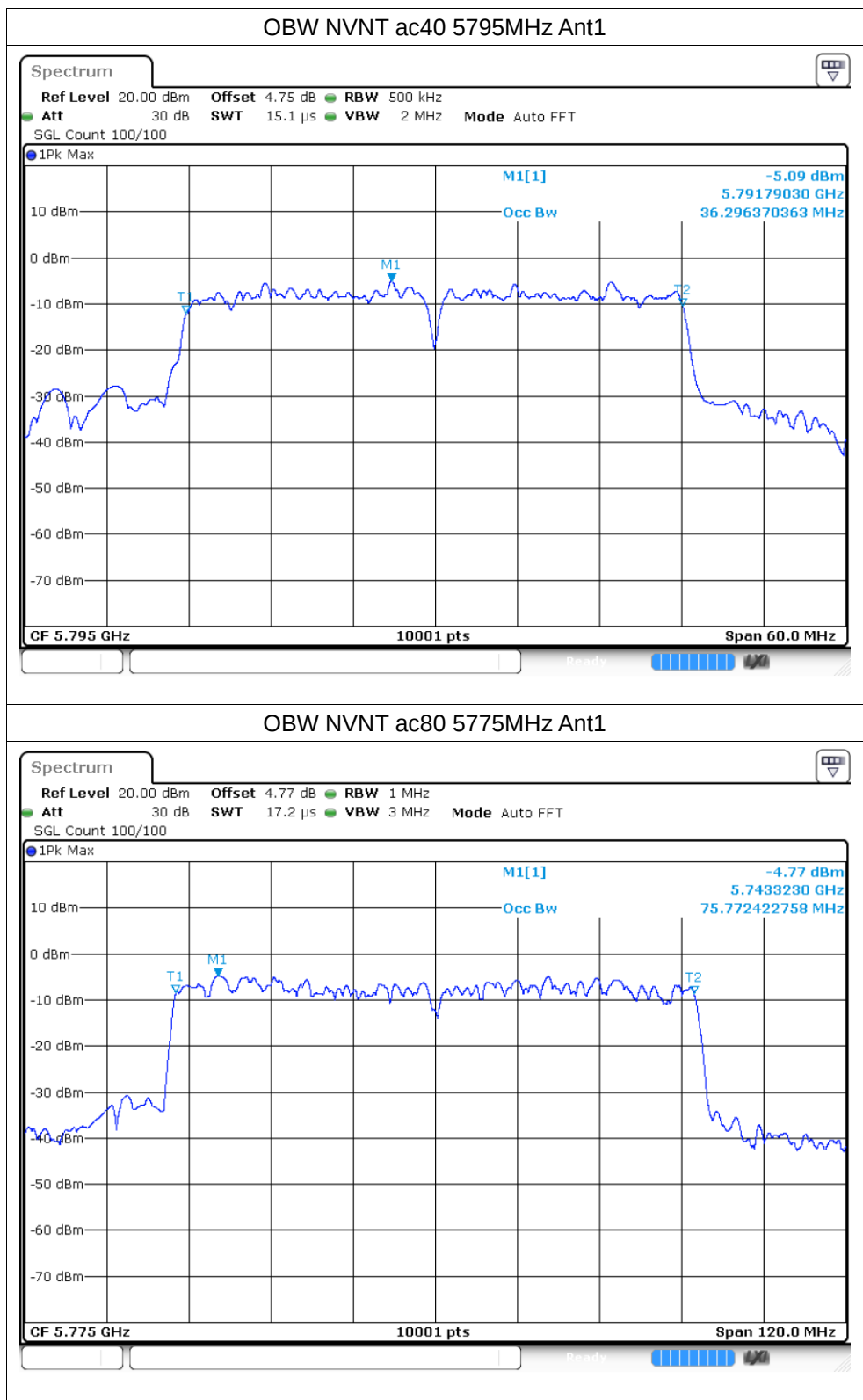
OBW NVNT ac20 5745MHz Ant1



OBW NVNT ac20 5785MHz Ant1









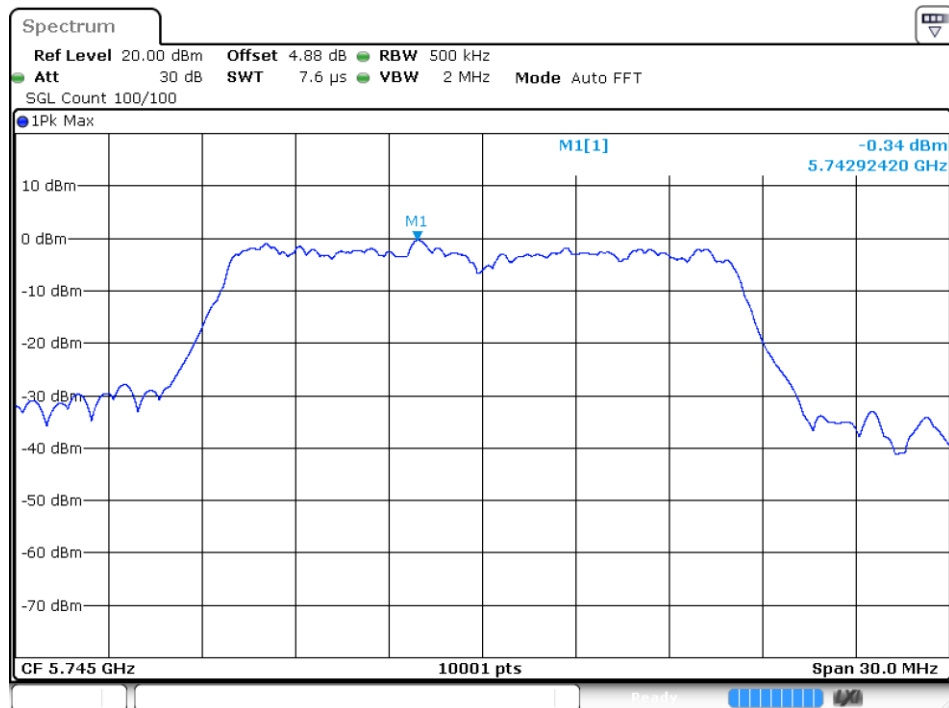
5 Maximum Power Spectral Density Level

Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Verdict
802.11a	5745	Ant1	-0.34	-0.34	30	Pass
802.11a	5785	Ant1	-2.13	-2.13	30	Pass
802.11a	5825	Ant1	-0.61	-0.61	30	Pass
802.11n20	5745	Ant1	-0.8	-0.8	30	Pass
802.11n20	5785	Ant1	-0.22	-0.22	30	Pass
802.11n20	5825	Ant1	-0.15	-0.15	30	Pass
802.11n40	5755	Ant1	-4.41	-4.41	30	Pass
802.11n40	5795	Ant1	-5.05	-5.05	30	Pass
802.11ac20	5745	Ant1	-2.42	-2.42	30	Pass
802.11ac20	5785	Ant1	-2.16	-2.16	30	Pass
802.11ac20	5825	Ant1	-0.83	-0.83	30	Pass
802.11ac40	5755	Ant1	-4.35	-4.35	30	Pass
802.11ac40	5795	Ant1	-5.11	-5.11	30	Pass
802.11ac80	5775	Ant1	-7.65	-7.65	30	Pass

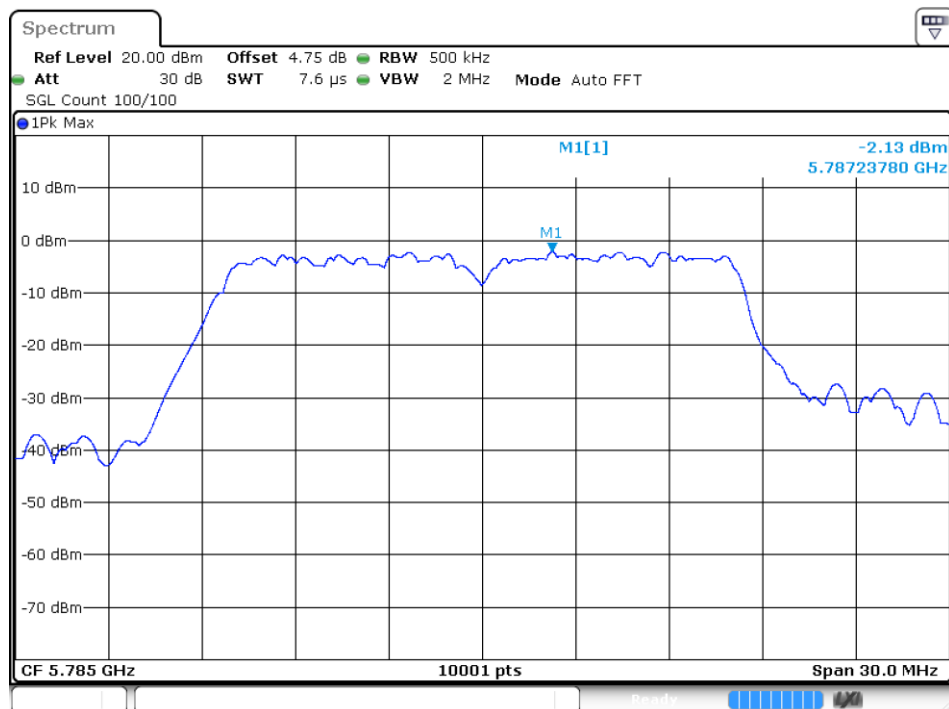


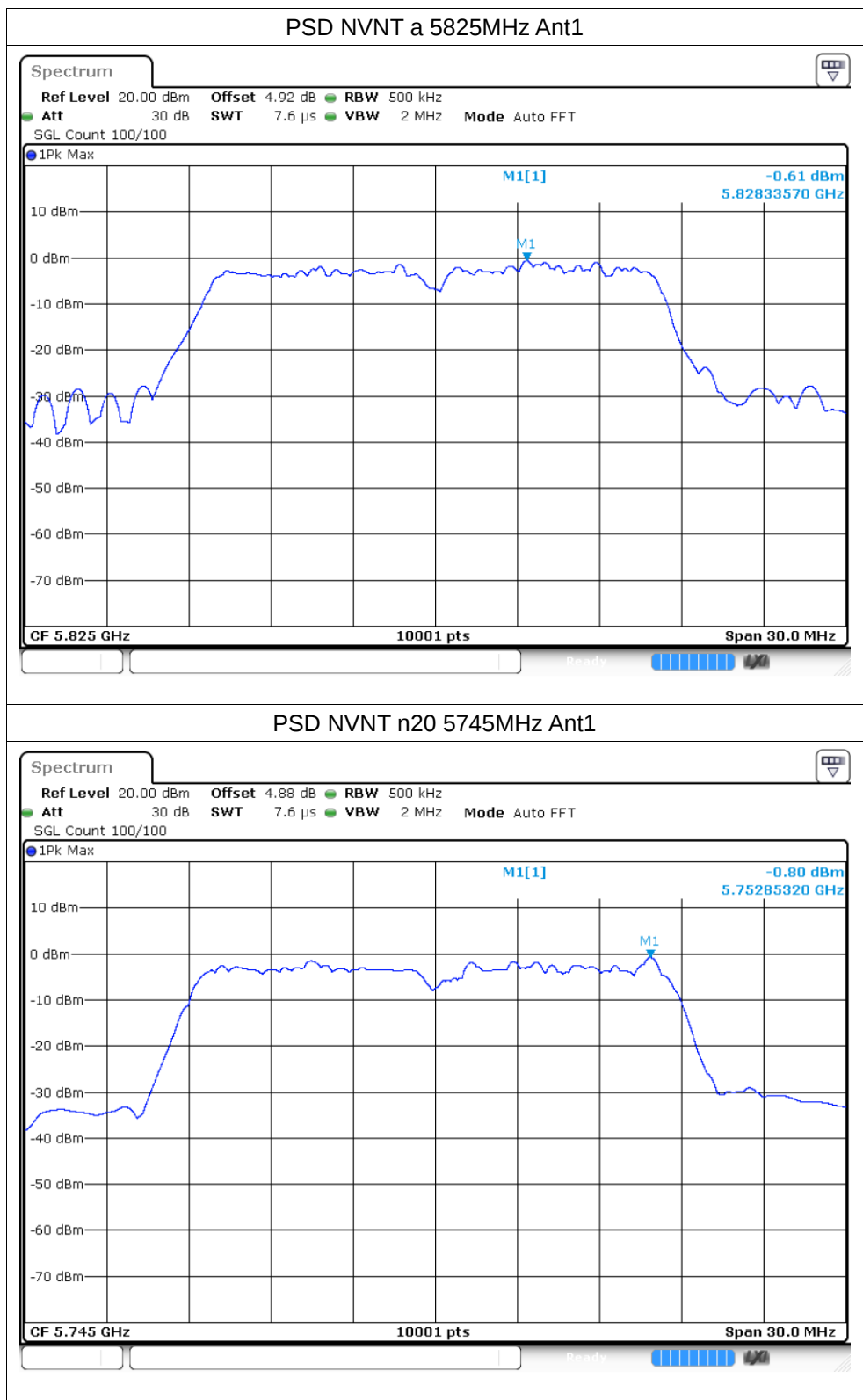
Test Graphs

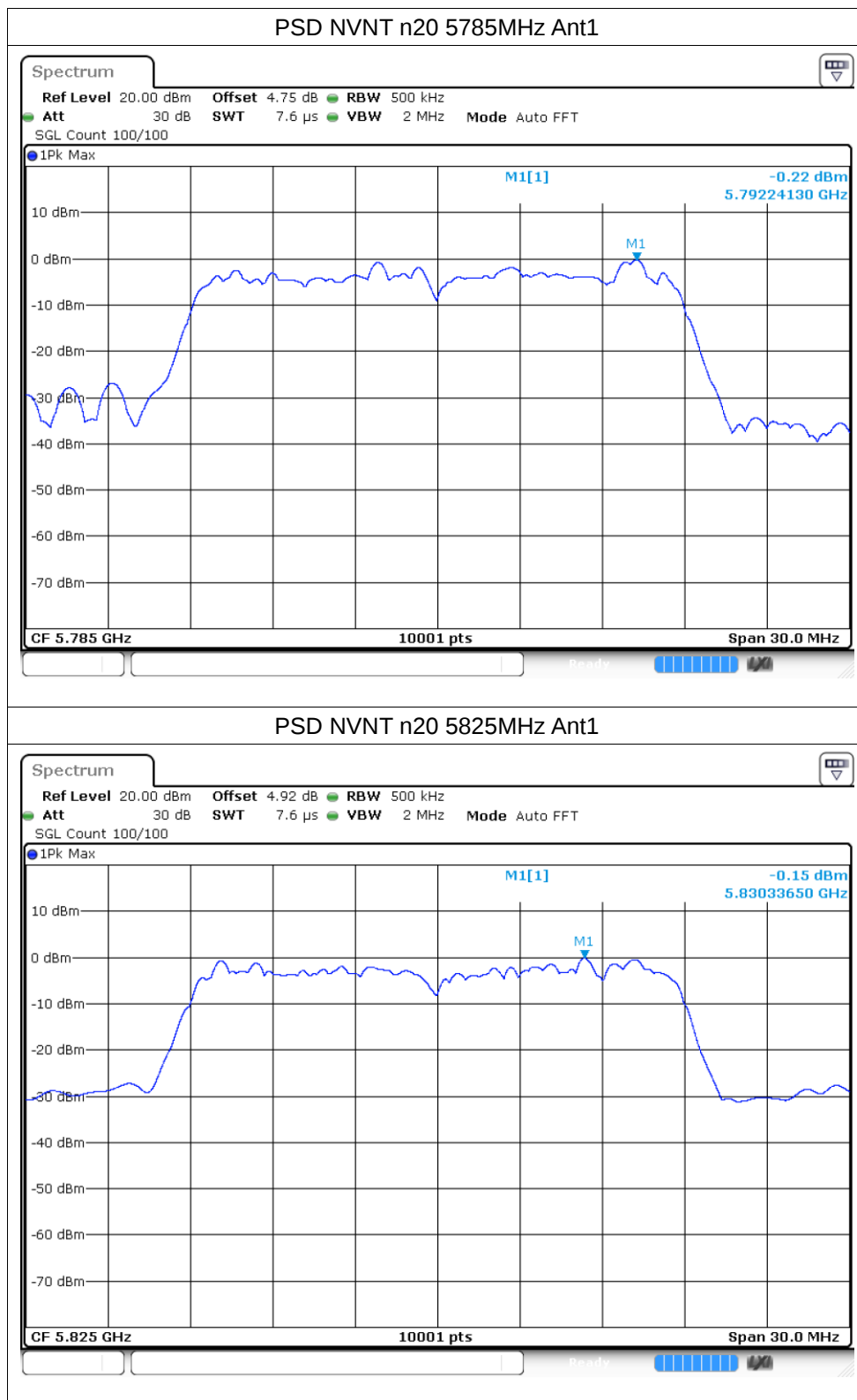
PSD NVNT a 5745MHz Ant1

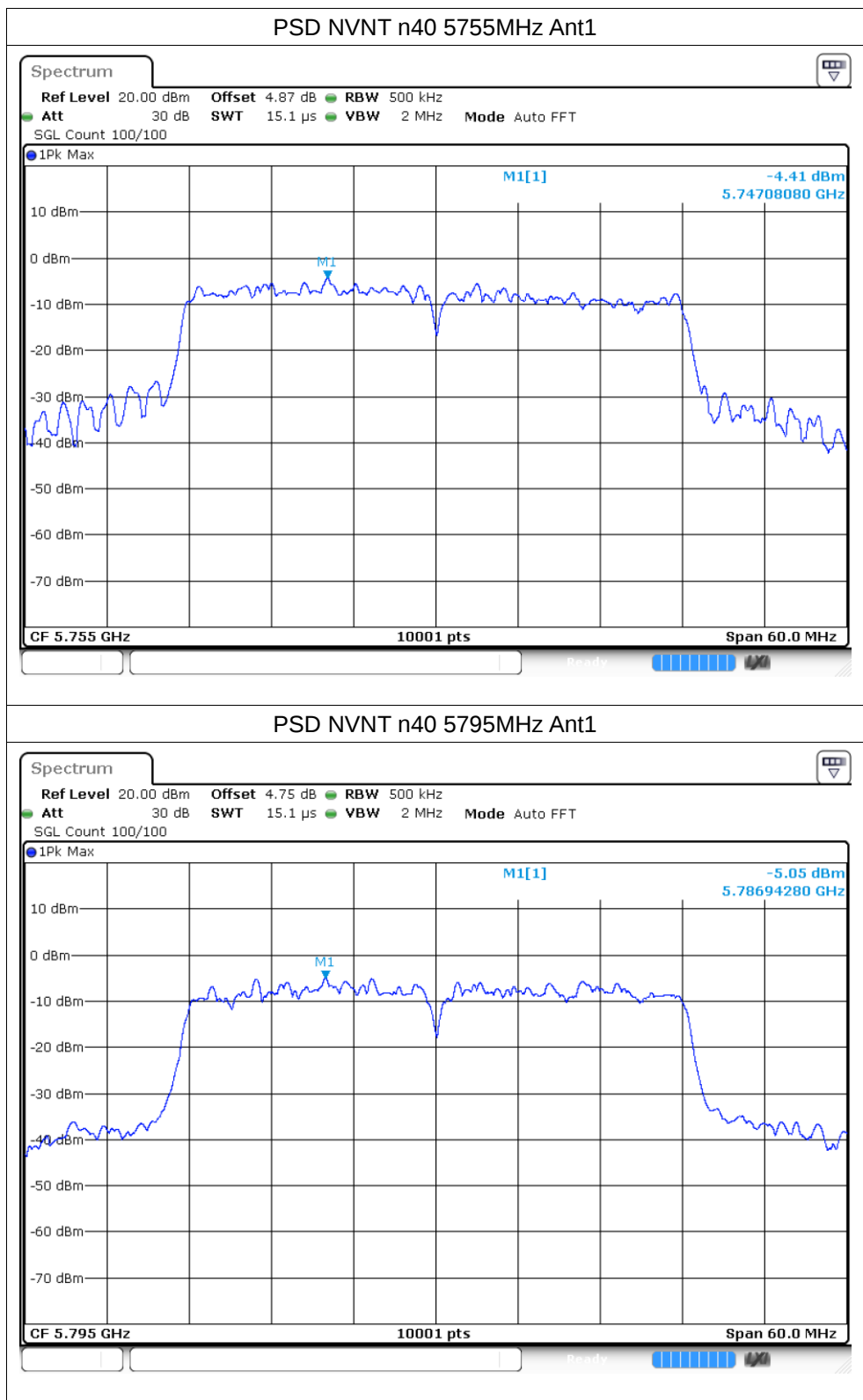


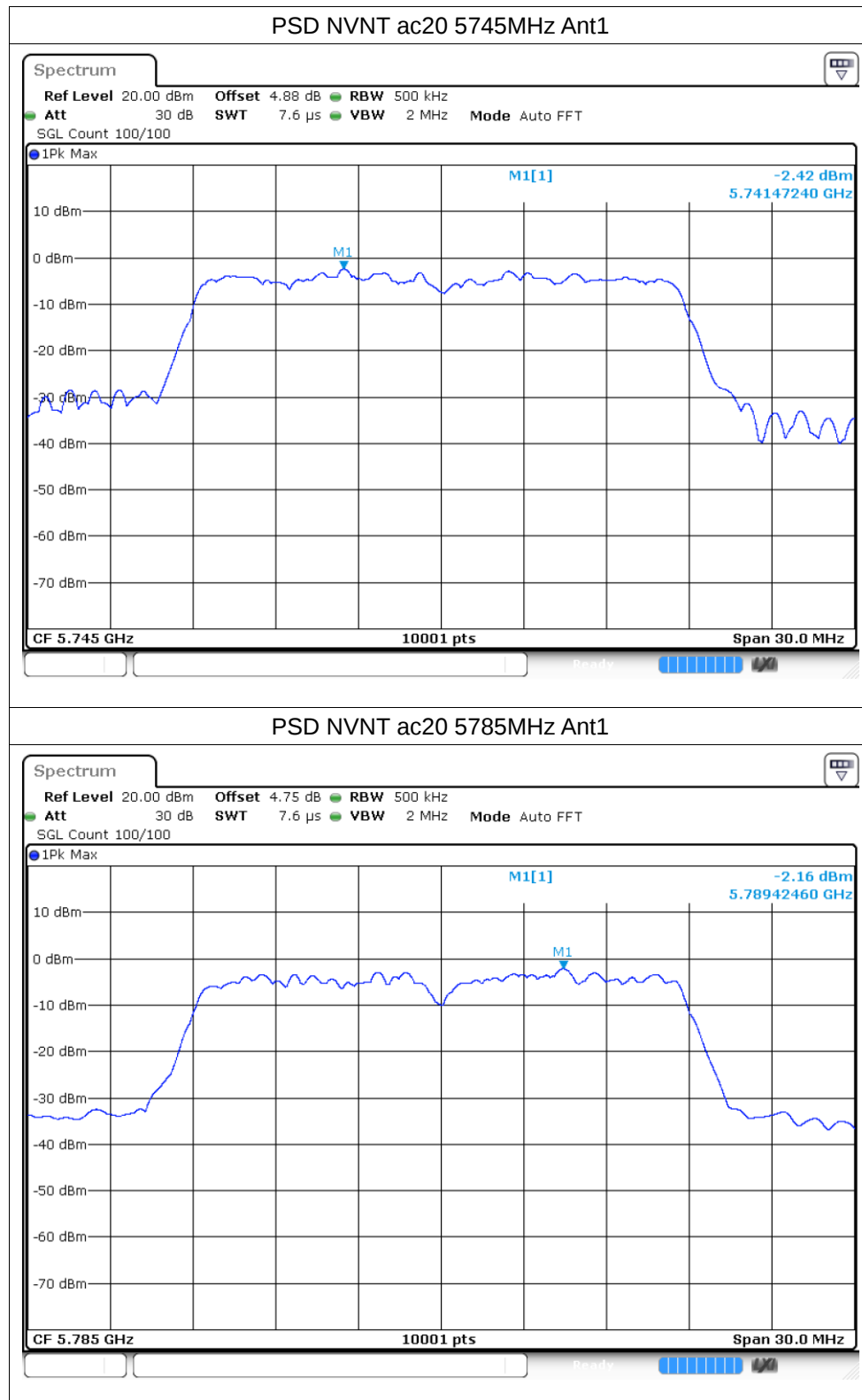
PSD NVNT a 5785MHz Ant1

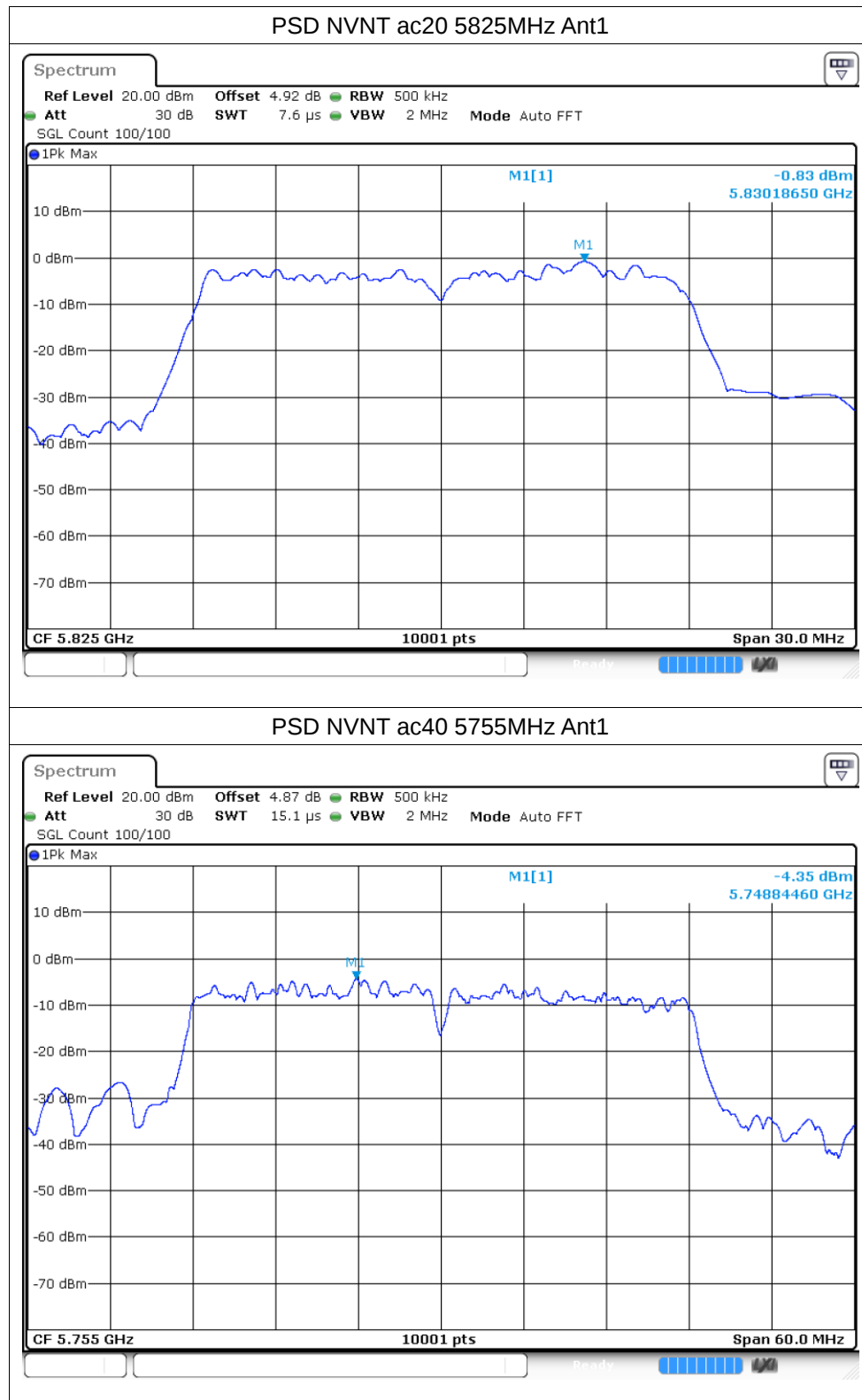


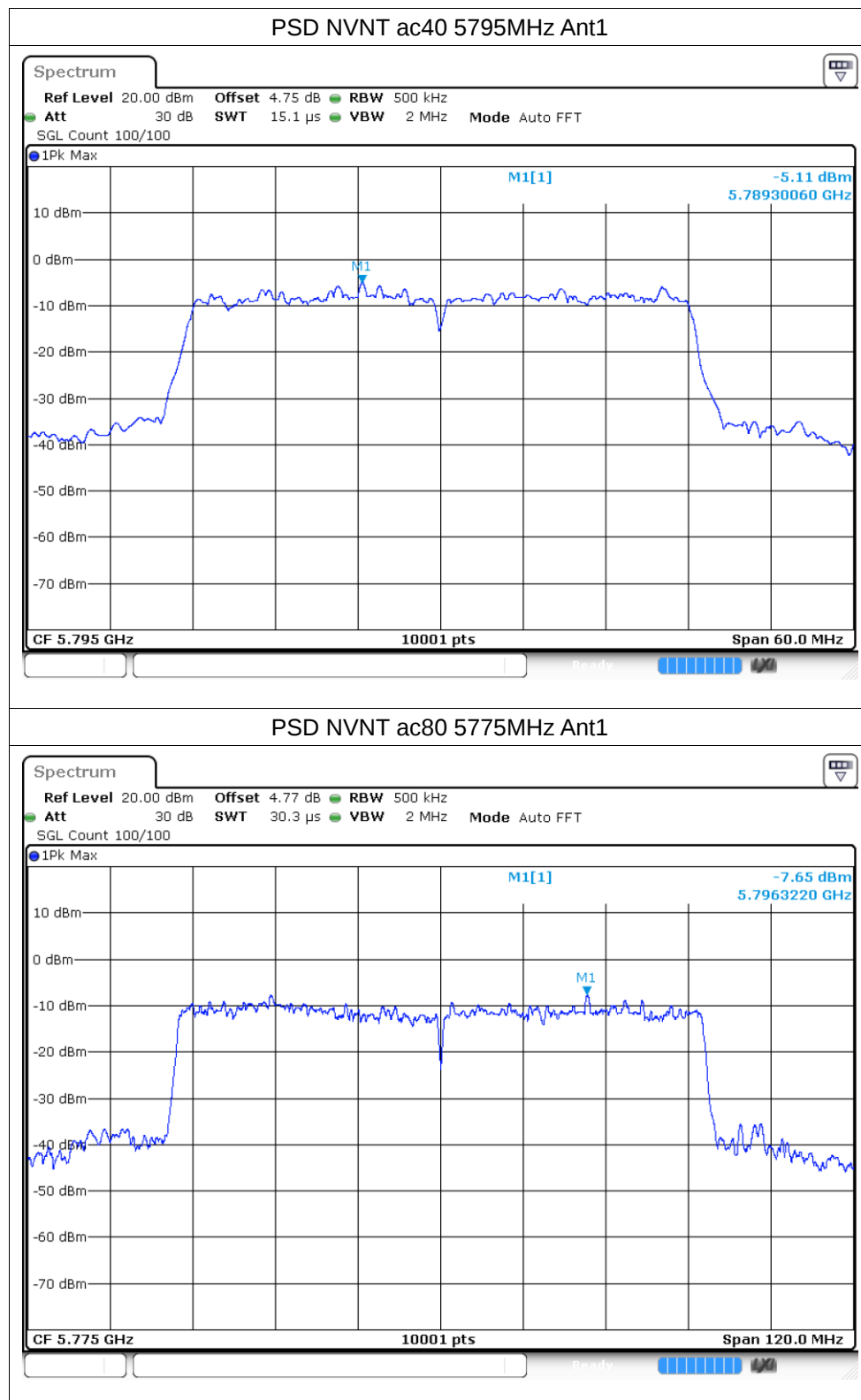














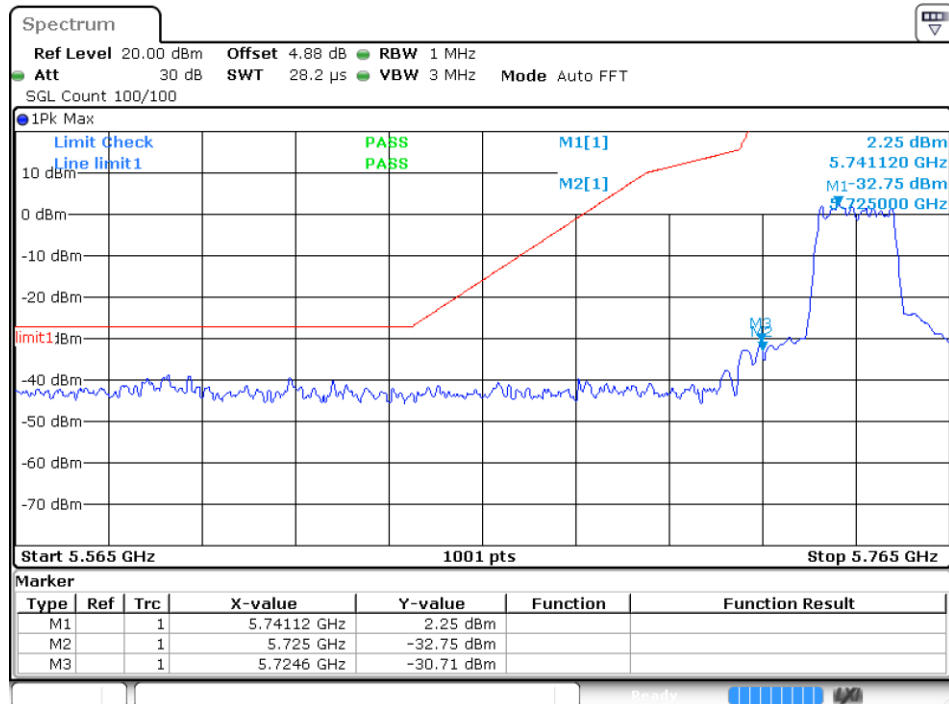
6 Band Edge

Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Verdict
802.11a	5745	Ant1	-30.71	Pass
802.11a	5825	Ant1	-37.1	Pass
802.11n20	5745	Ant1	-29.46	Pass
802.11n20	5825	Ant1	-39.3	Pass
802.11n40	5755	Ant1	-31.09	Pass
802.11n40	5795	Ant1	-39.8	Pass
802.11ac20	5745	Ant1	-33.58	Pass
802.11ac20	5825	Ant1	-39.41	Pass
802.11ac40	5755	Ant1	-32.98	Pass
802.11ac40	5795	Ant1	-38.32	Pass
802.11ac80	5775	Ant1	-39.61	Pass
802.11ac80	5775	Ant1	-33.32	Pass

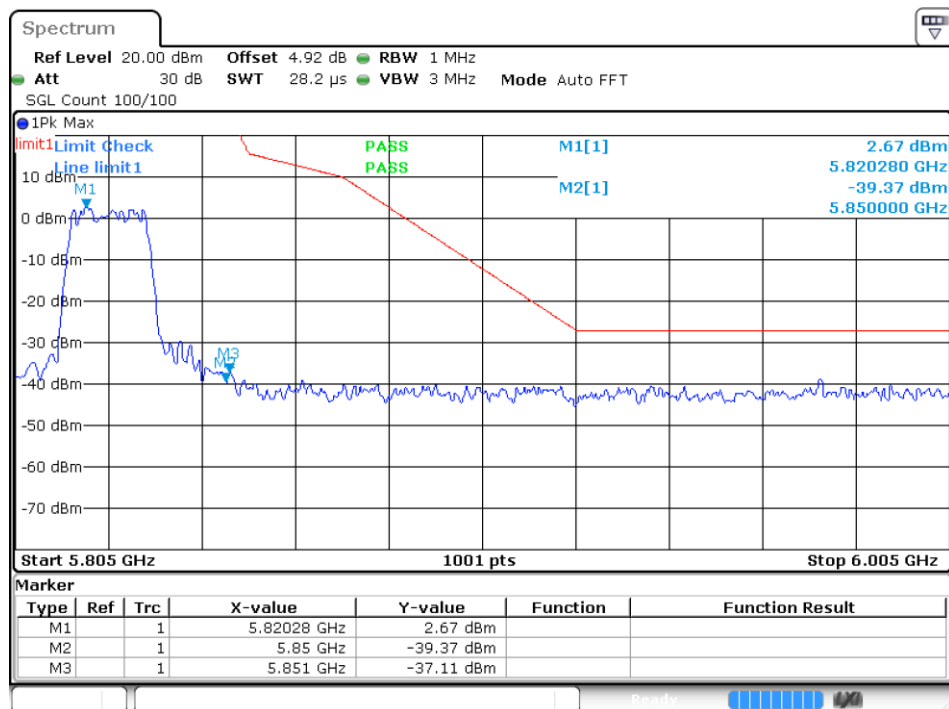


Test Graphs

Band Edge NVNT a 5745MHz Low Ant1

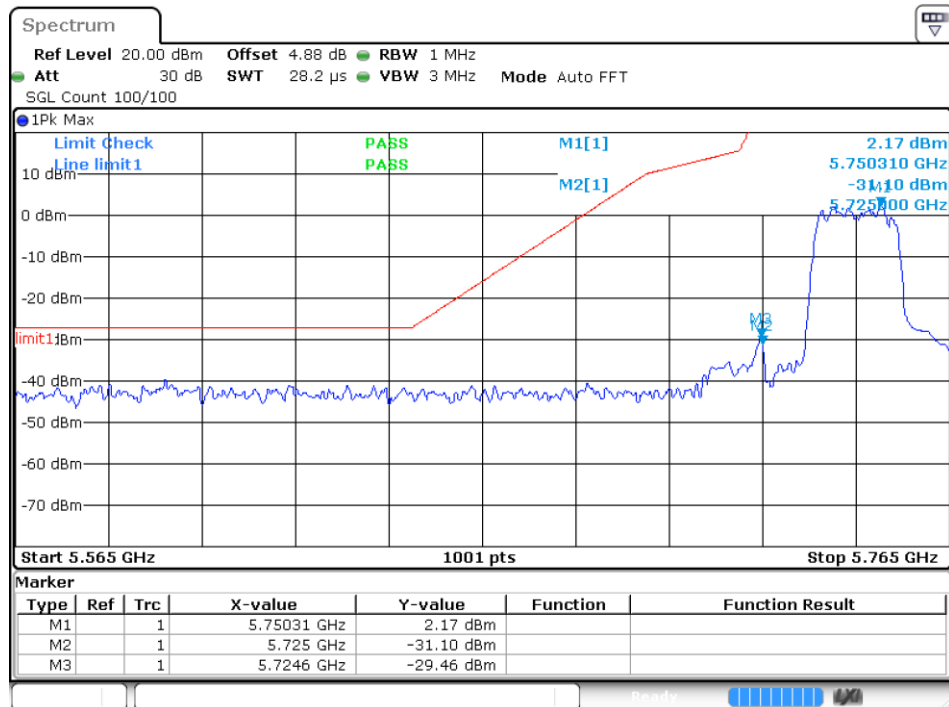


Band Edge NVNT a 5825MHz High Ant1

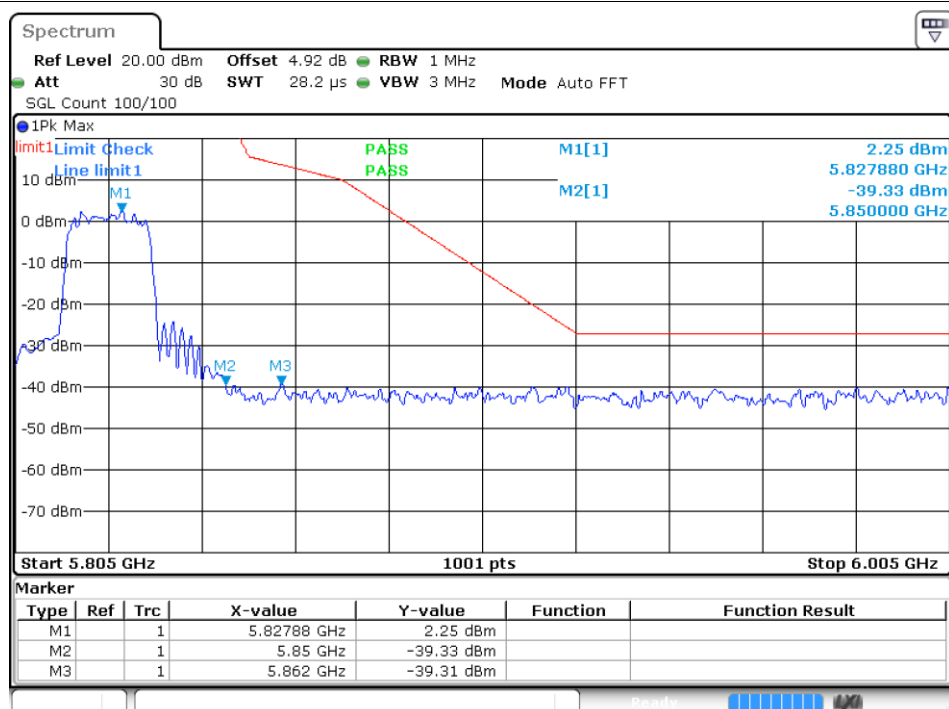




Band Edge NVNT n20 5745MHz Low Ant1

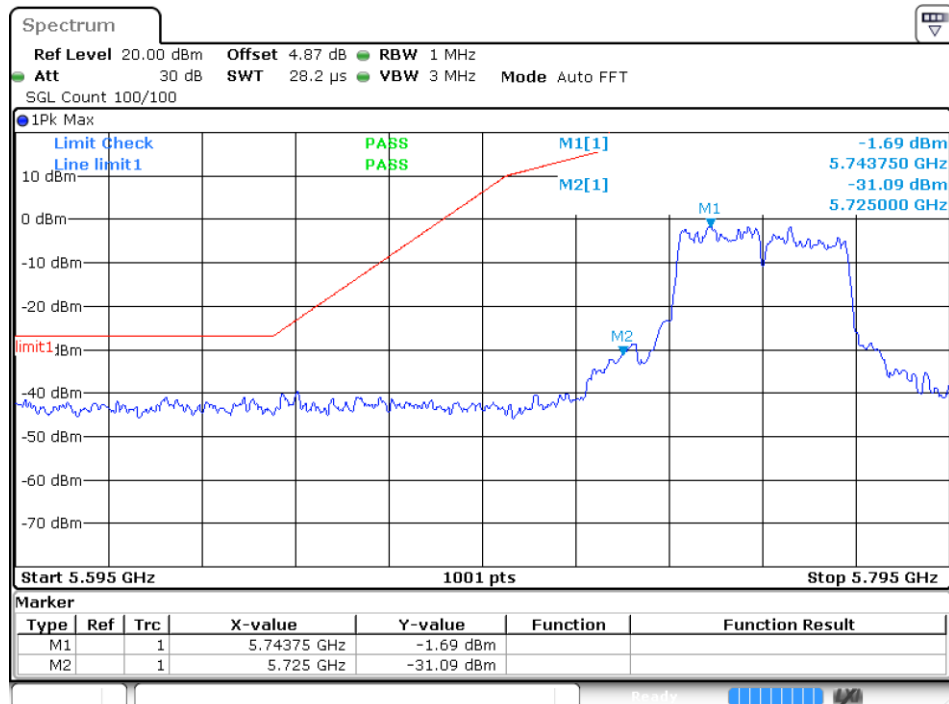


Band Edge NVNT n20 5825MHz High Ant1

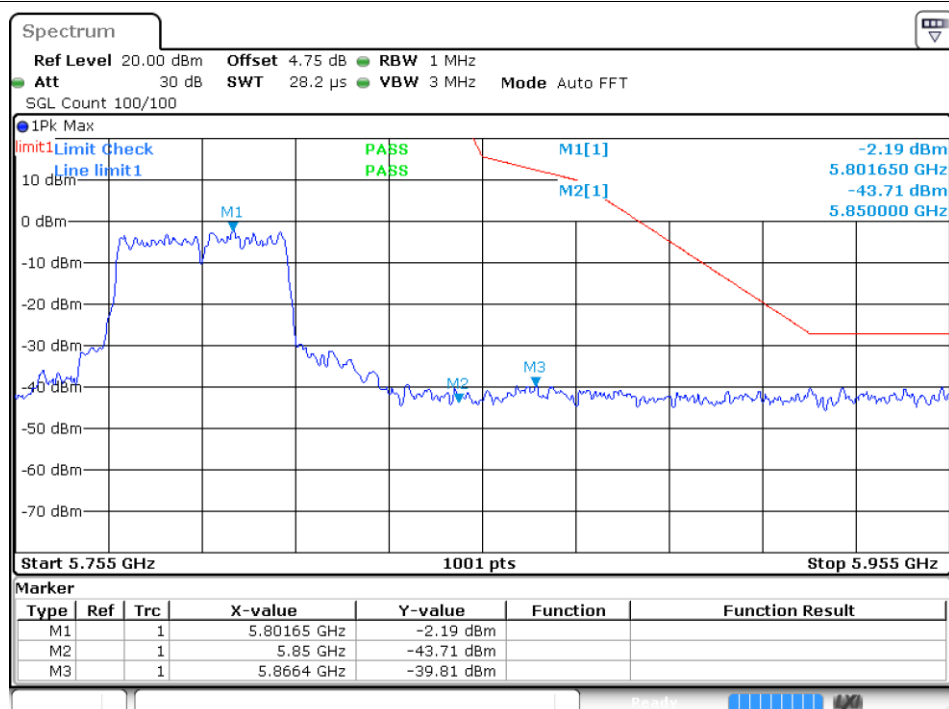




Band Edge NVNT n40 5755MHz Low Ant1

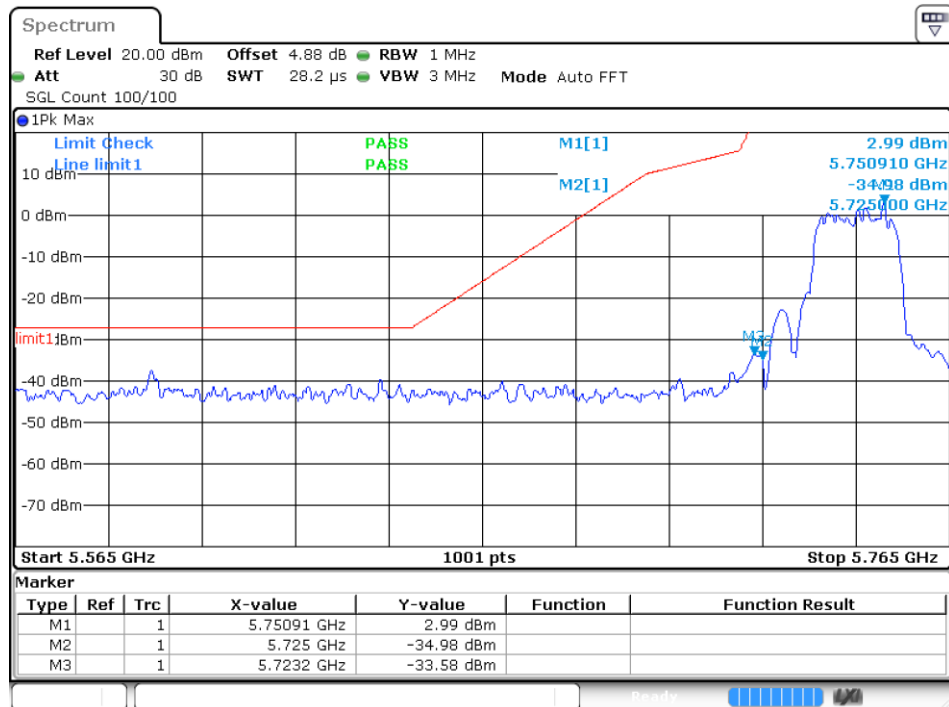


Band Edge NVNT n40 5795MHz High Ant1





Band Edge NVNT ac20 5745MHz Low Ant1



Band Edge NVNT ac20 5825MHz High Ant1

