



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: E Ink Tablet, Smart E Ink Tablet, ePaper Tablet, E-bag Tablet, E-book Tablet, E-reader Tablet, Eyes protection E Ink Tablet, E-paper Tablet, Color E Ink Tablet, Color ePaper Tablet, eBook reader

Trade Mark: BOOX

Test Model: Note Air4 C

Environmental Conditions

Temperature:	25.7°C
Relative Humidity:	52.3%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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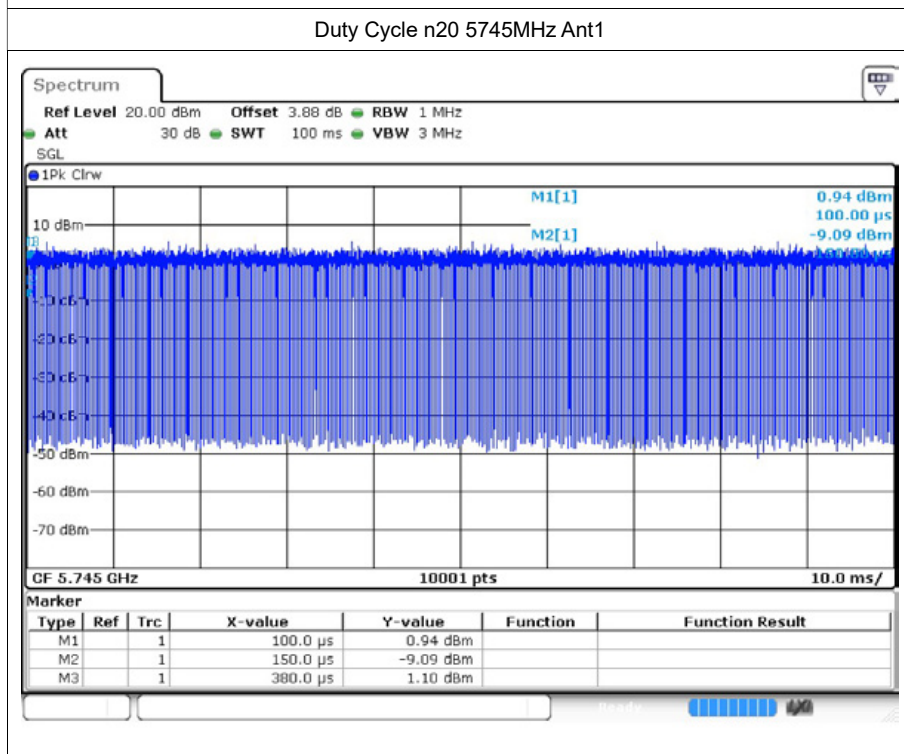
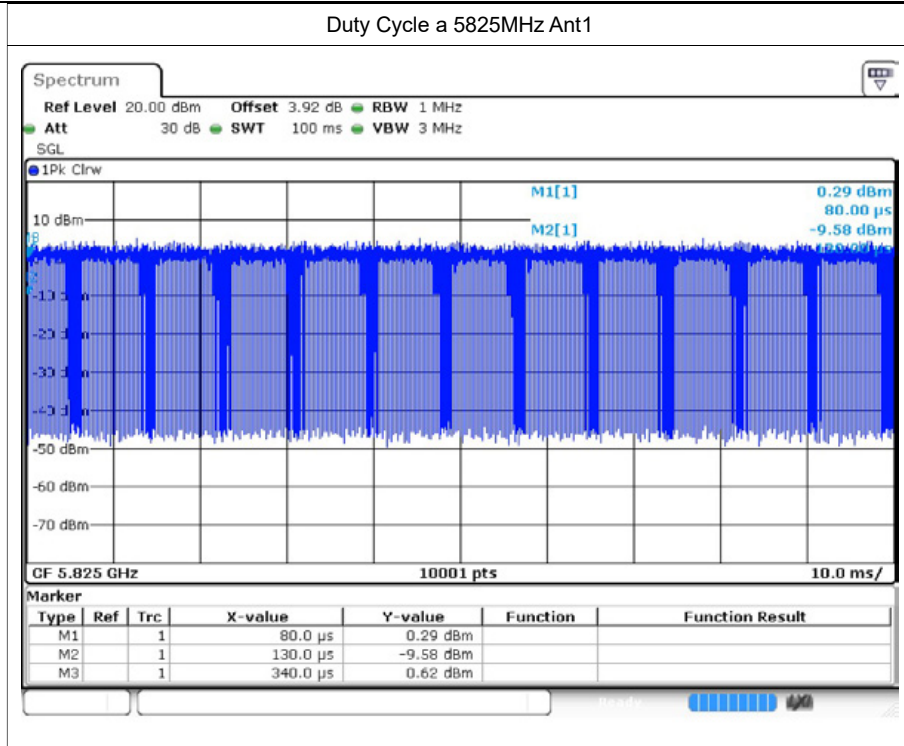
1 Duty Cycle

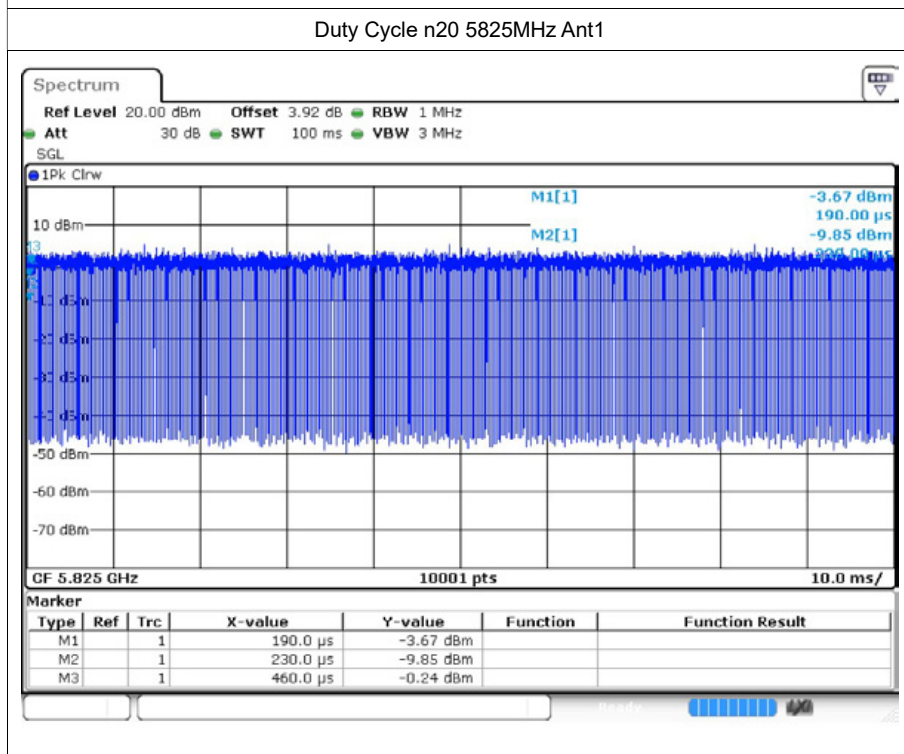
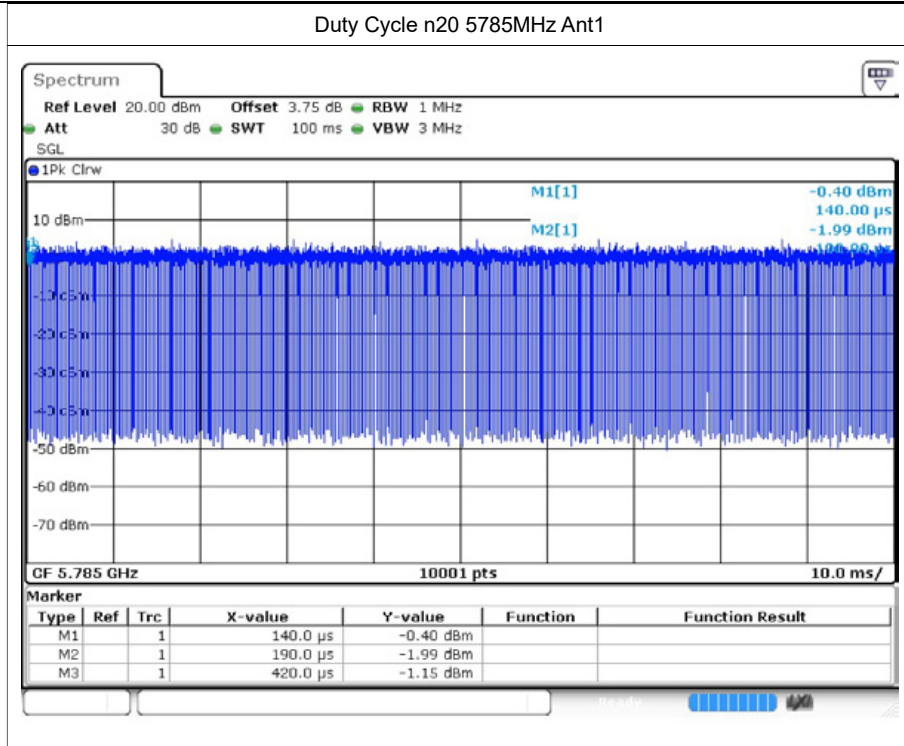
1.1 Test Result

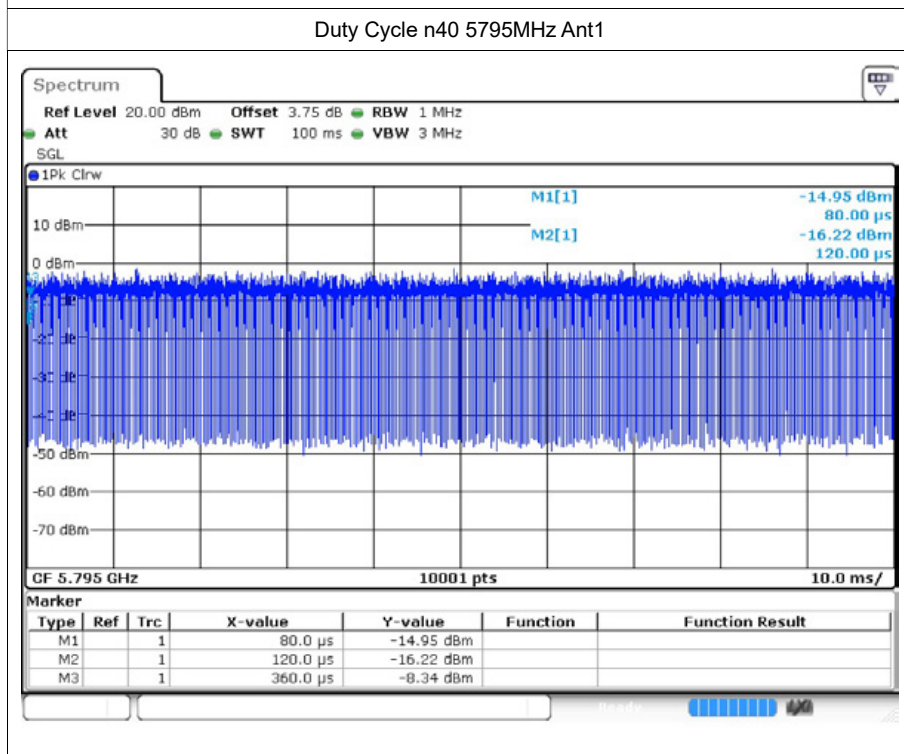
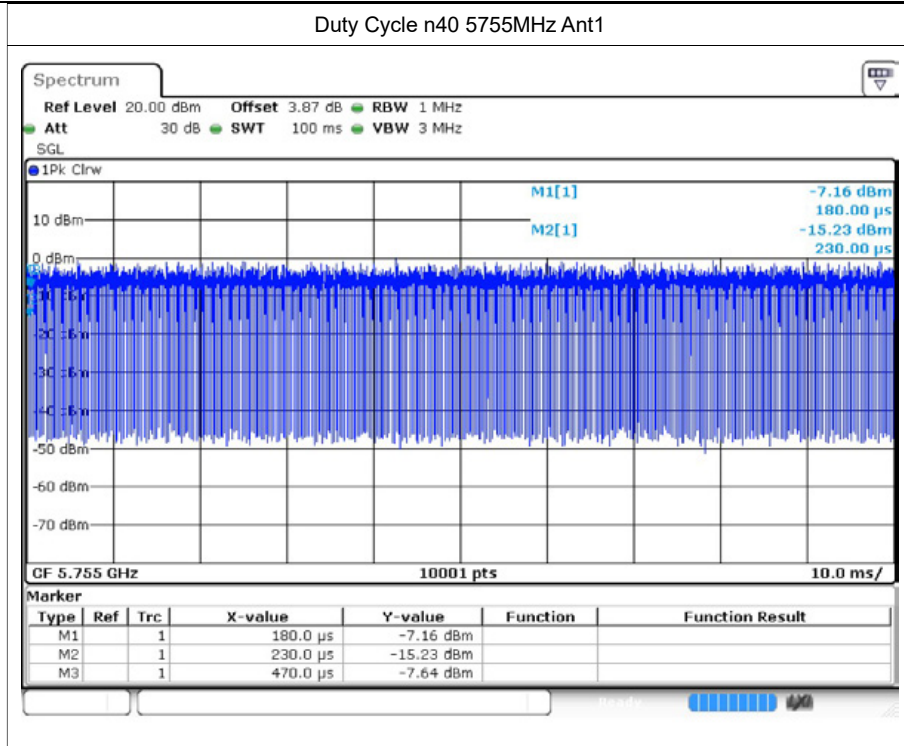
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	87.05	0.6	4.76
a	5785	Ant1	86.64	0.62	4.76
a	5825	Ant1	86.59	0.63	4.76
n20	5745	Ant1	87.6	0.57	4.35
n20	5785	Ant1	87.63	0.57	4.35
n20	5825	Ant1	87.62	0.57	4.35
n40	5755	Ant1	88.08	0.55	4.17
n40	5795	Ant1	88.09	0.55	4.17
ac20	5745	Ant1	87.24	0.59	4.55
ac20	5785	Ant1	87.19	0.6	4.35
ac20	5825	Ant1	87.14	0.6	4.35
ac40	5755	Ant1	87.08	0.6	4.55
ac40	5795	Ant1	87.05	0.6	4.55
ac80	5775	Ant1	87.38	0.59	4.35

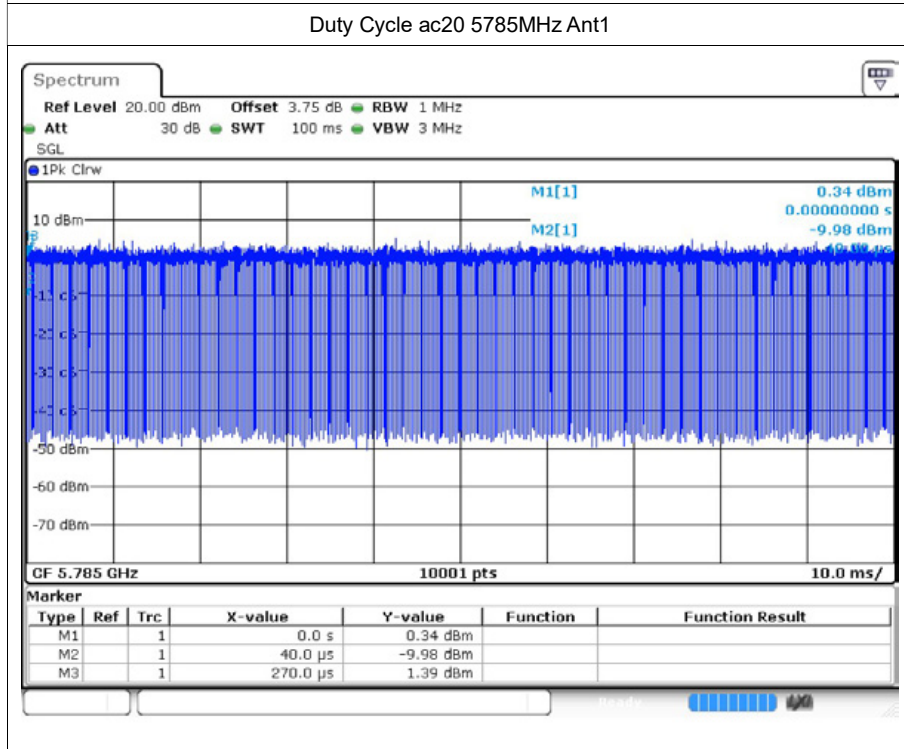
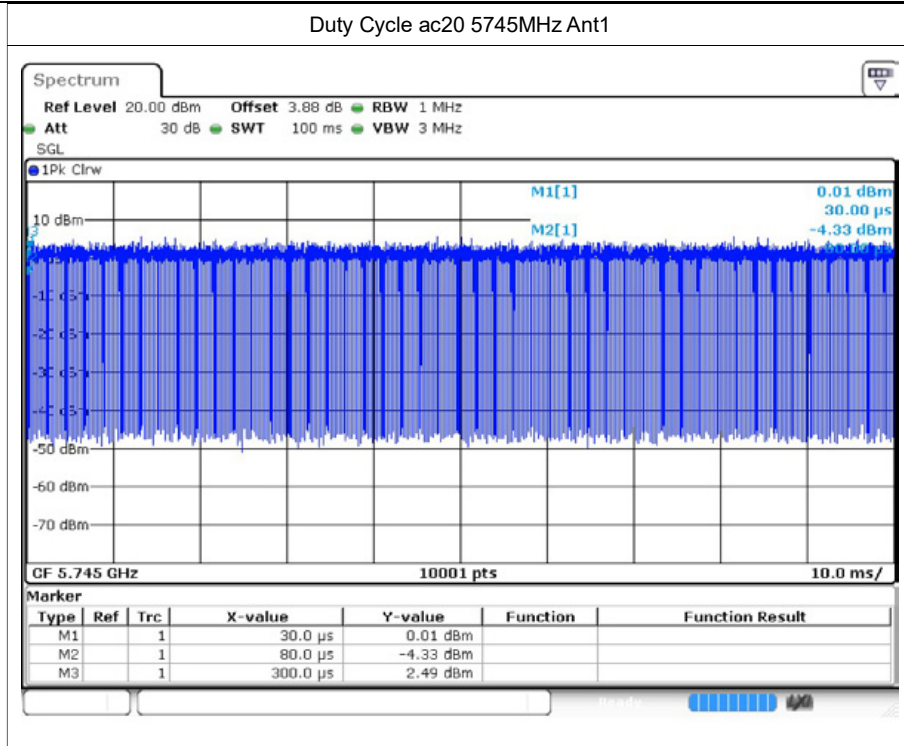
1.2 Test Graphs

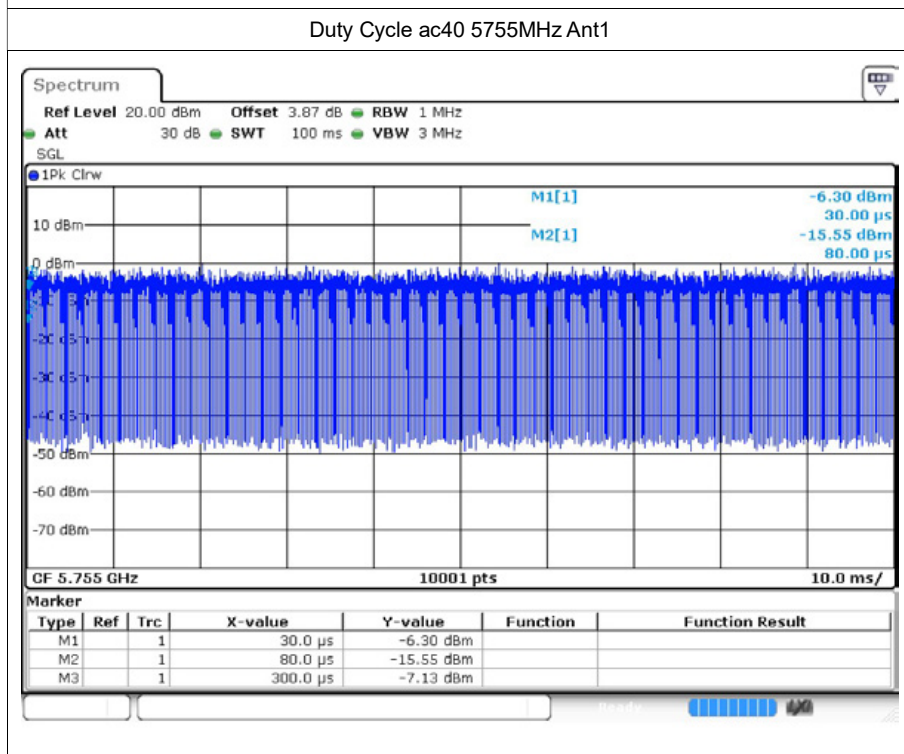
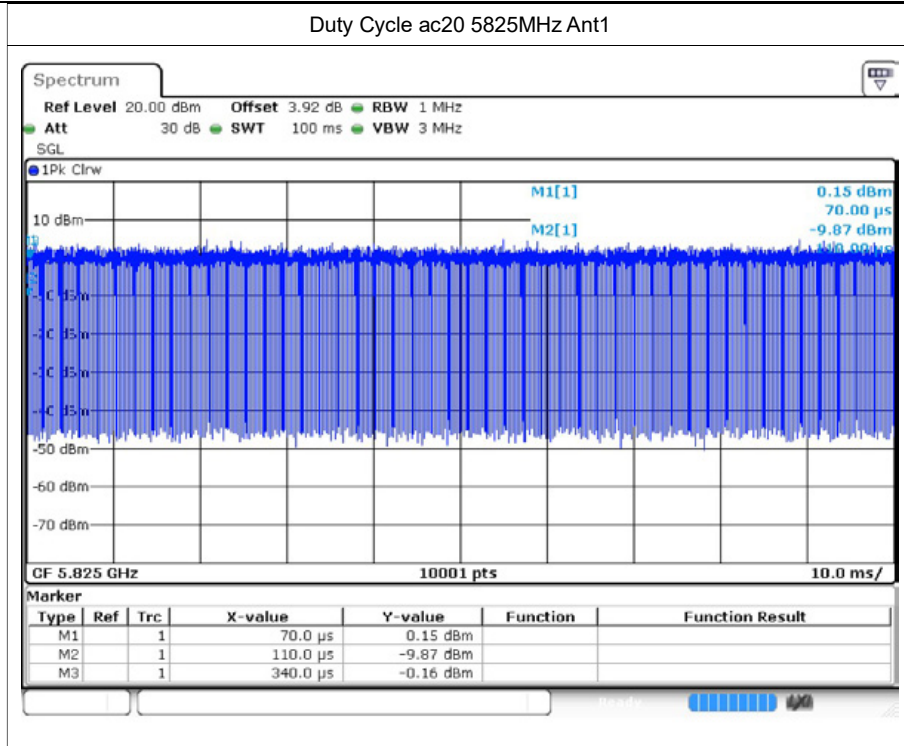


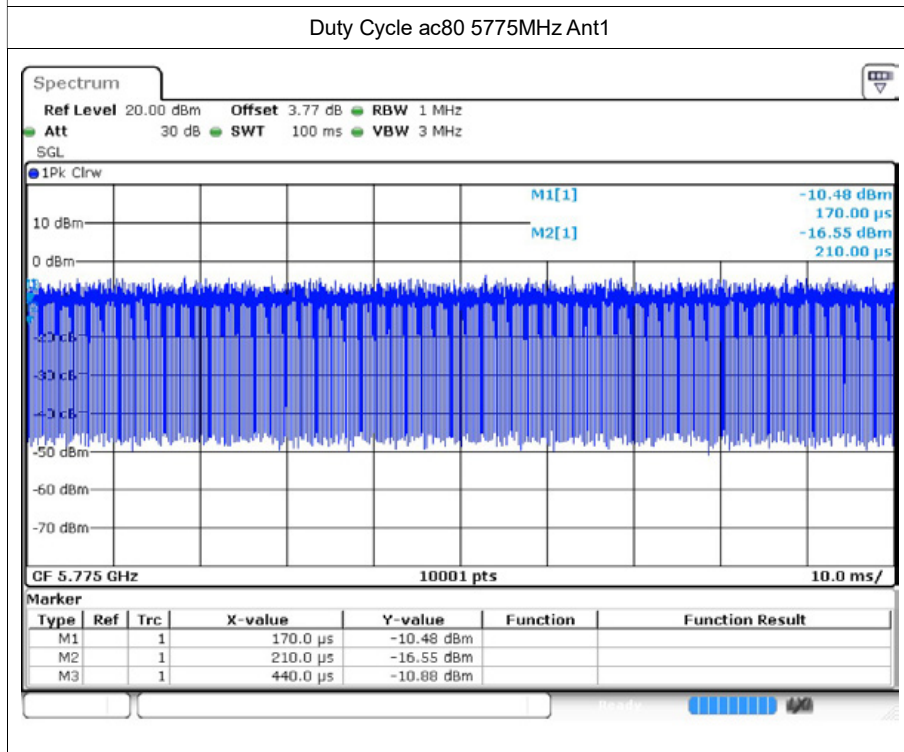
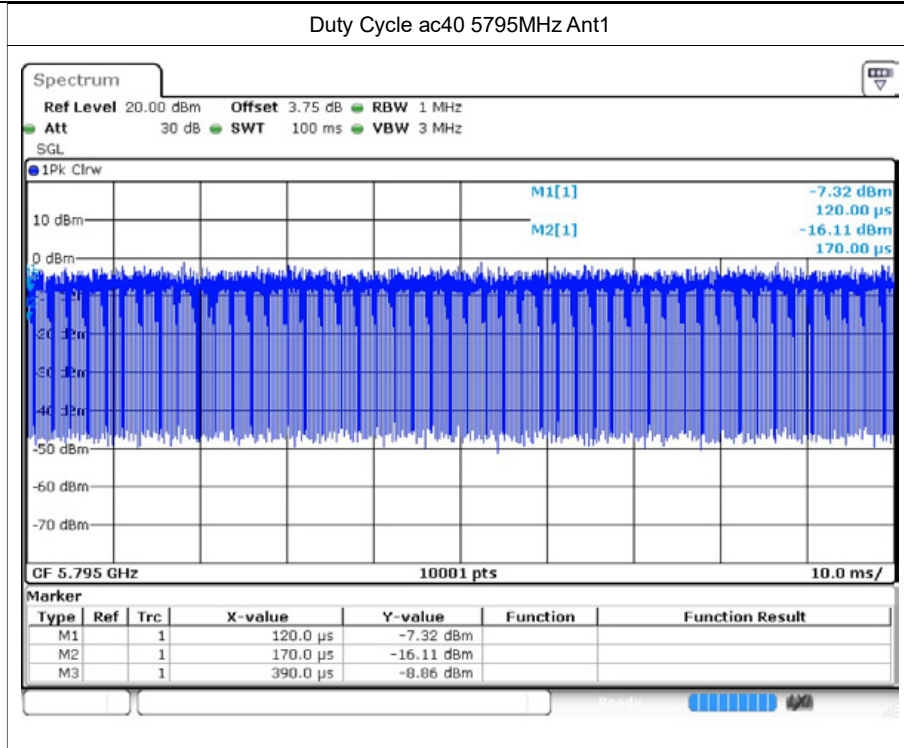












2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	12.27	30	Pass
a	5785	Ant1	11.5	30	Pass
a	5825	Ant1	11.42	30	Pass
n20	5745	Ant1	11.58	30	Pass
n20	5785	Ant1	10.92	30	Pass
n20	5825	Ant1	10.79	30	Pass
n40	5755	Ant1	11.37	30	Pass
n40	5795	Ant1	10.38	30	Pass
ac20	5745	Ant1	11.76	30	Pass
ac20	5785	Ant1	10.92	30	Pass
ac20	5825	Ant1	10.89	30	Pass
ac40	5755	Ant1	11.34	30	Pass
ac40	5795	Ant1	10.43	30	Pass
ac80	5775	Ant1	11.23	30	Pass

Note:

The duty factor has been compensated into the result.

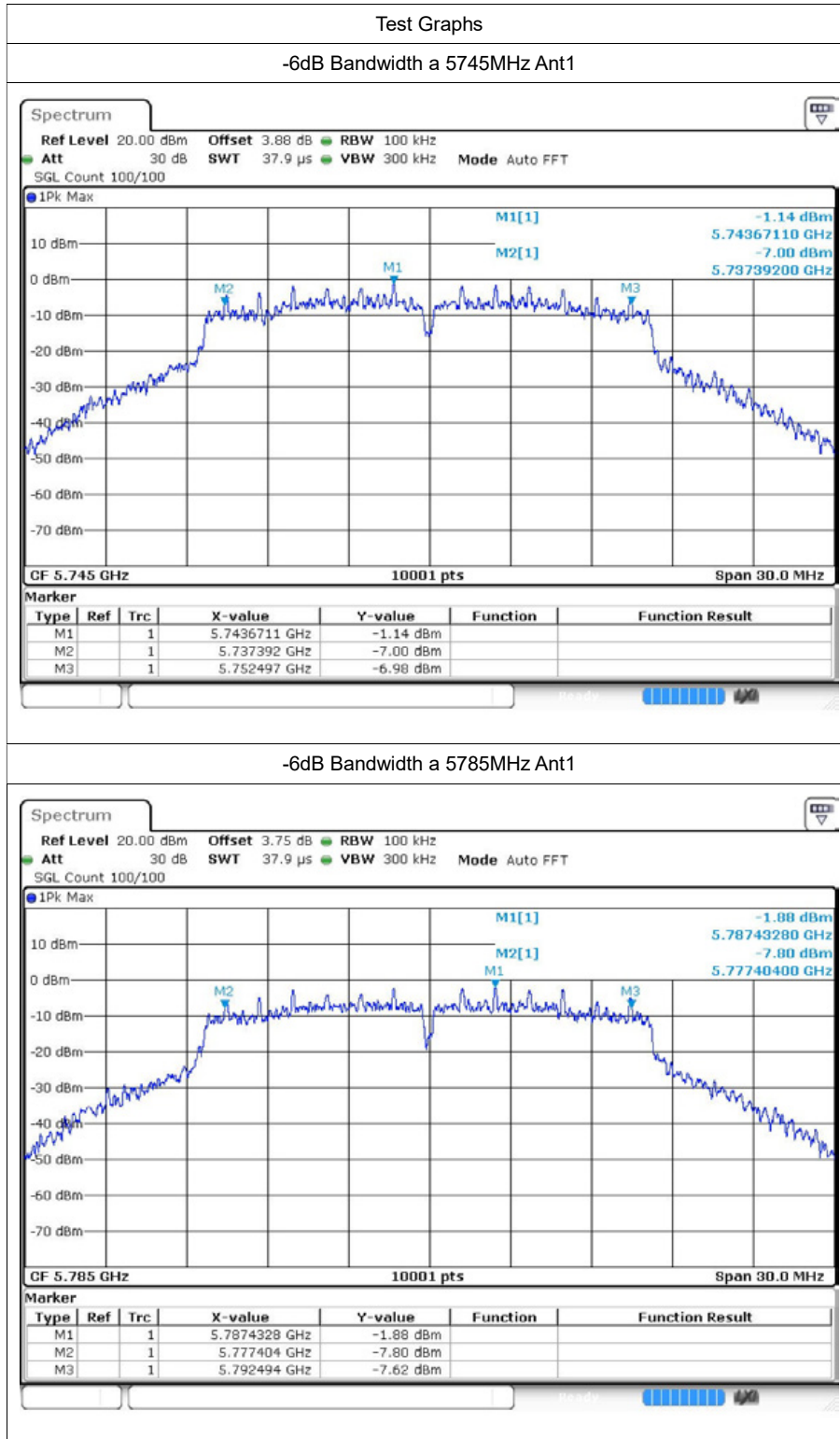


3 -6dB Bandwidth

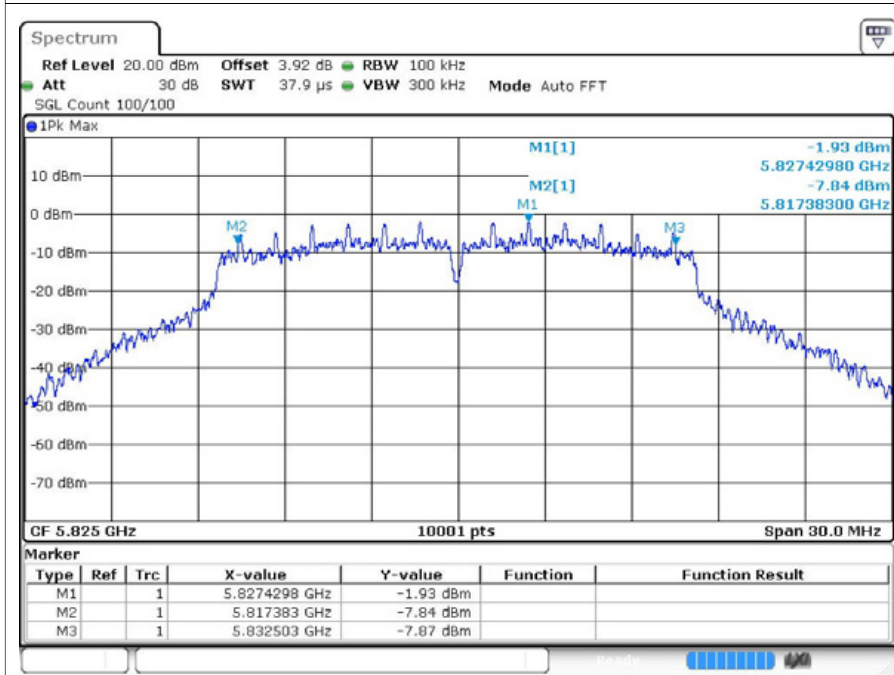
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	15.105	0.5	Pass
a	5785	Ant1	15.09	0.5	Pass
a	5825	Ant1	15.12	0.5	Pass
n20	5745	Ant1	13.851	0.5	Pass
n20	5785	Ant1	15.456	0.5	Pass
n20	5825	Ant1	15.12	0.5	Pass
n40	5755	Ant1	35.058	0.5	Pass
n40	5795	Ant1	35.094	0.5	Pass
ac20	5745	Ant1	15.12	0.5	Pass
ac20	5785	Ant1	15.081	0.5	Pass
ac20	5825	Ant1	14.991	0.5	Pass
ac40	5755	Ant1	35.004	0.5	Pass
ac40	5795	Ant1	35.076	0.5	Pass
ac80	5775	Ant1	75.06	0.5	Pass

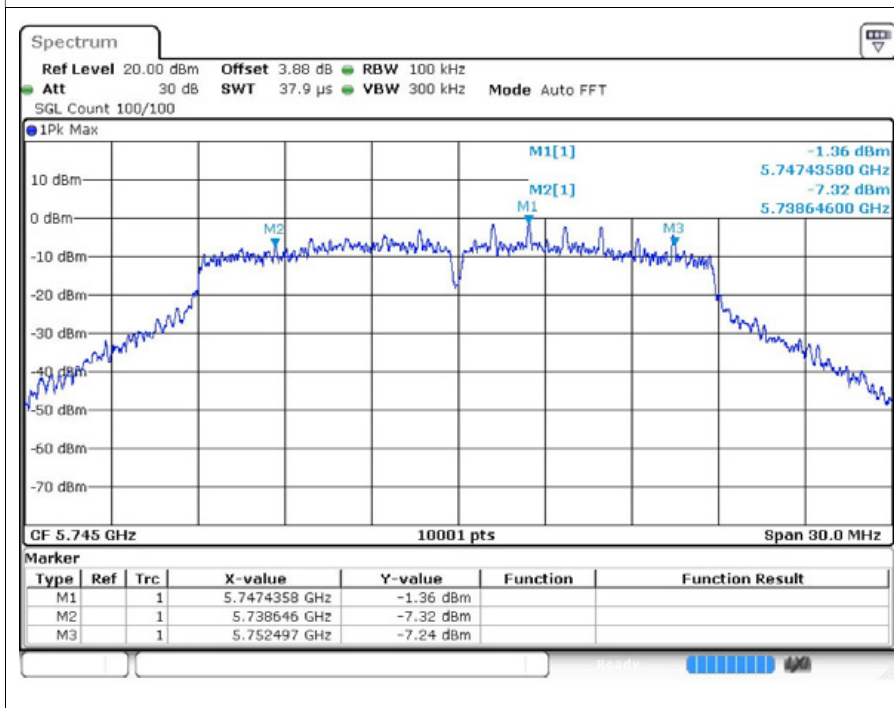
3.2 Test Graphs



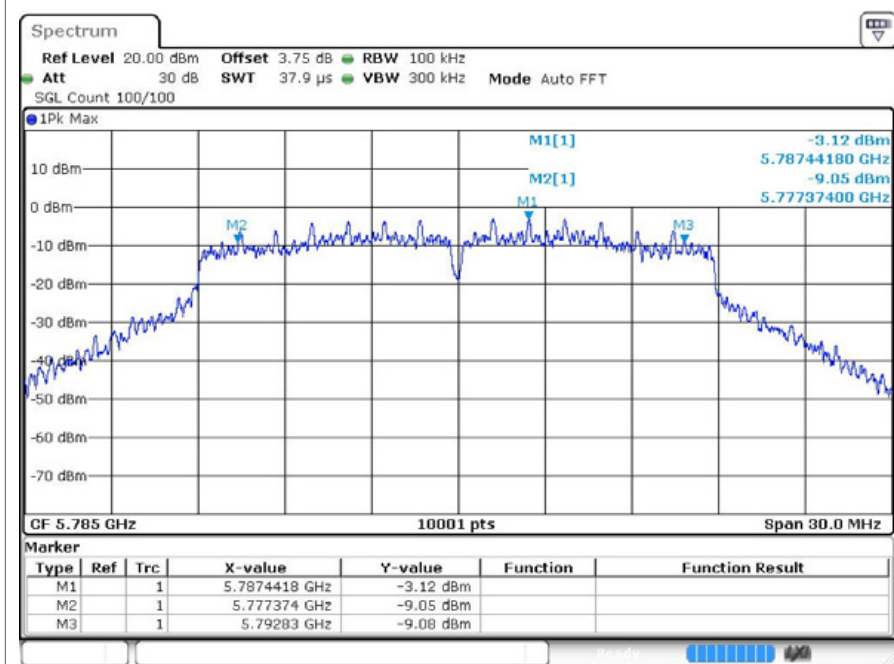
-6dB Bandwidth a 5825MHz Ant1



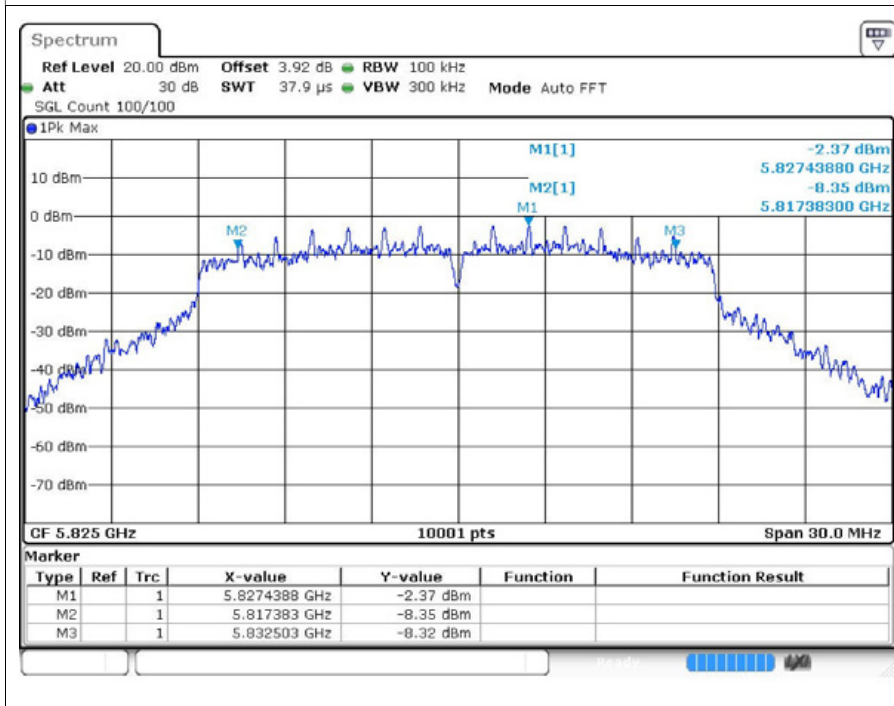
-6dB Bandwidth n20 5745MHz Ant1



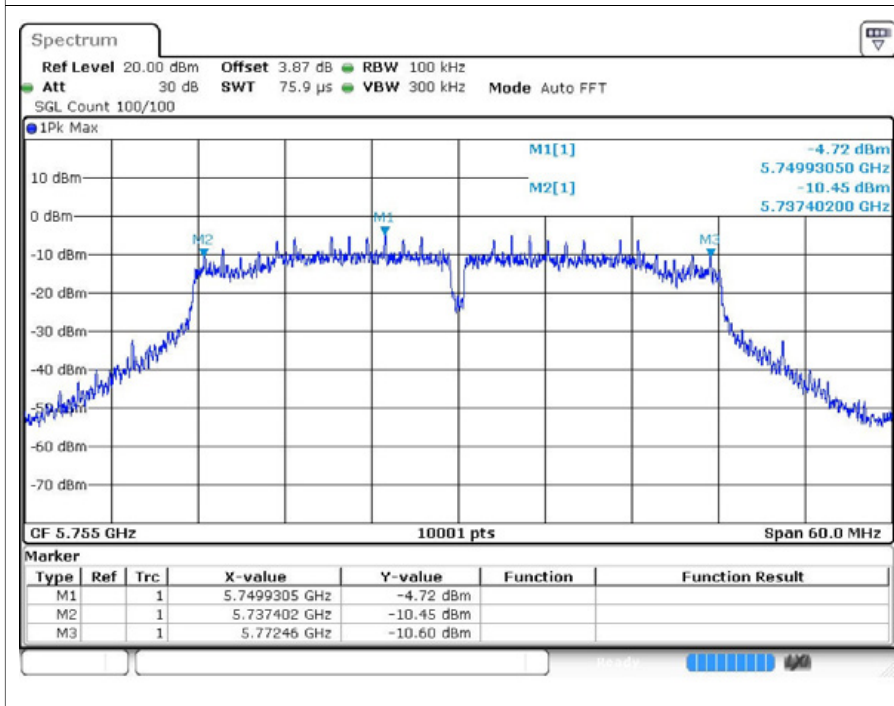
-6dB Bandwidth n20 5785MHz Ant1



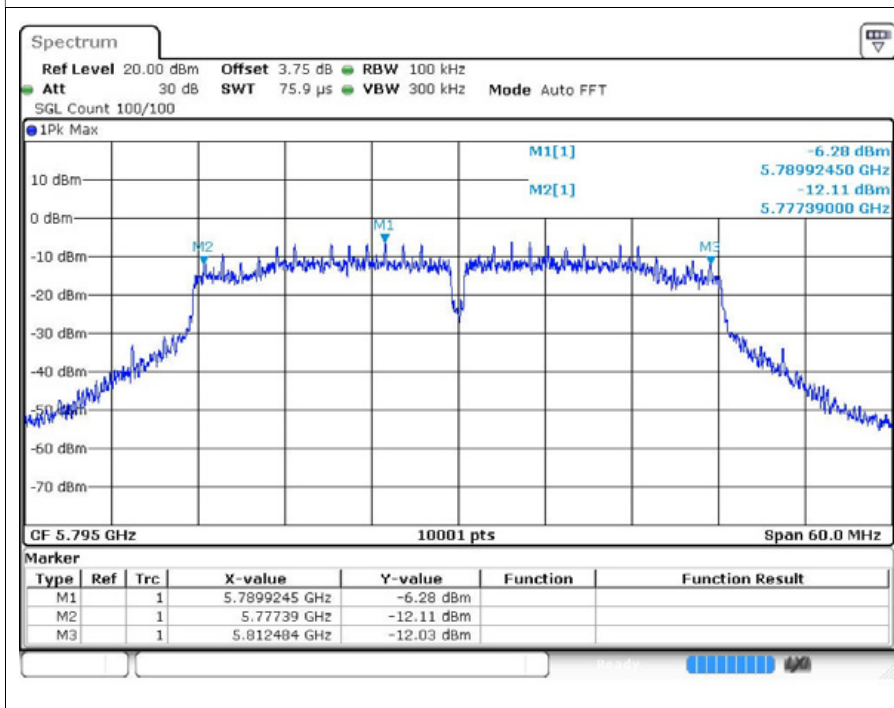
-6dB Bandwidth n20 5825MHz Ant1



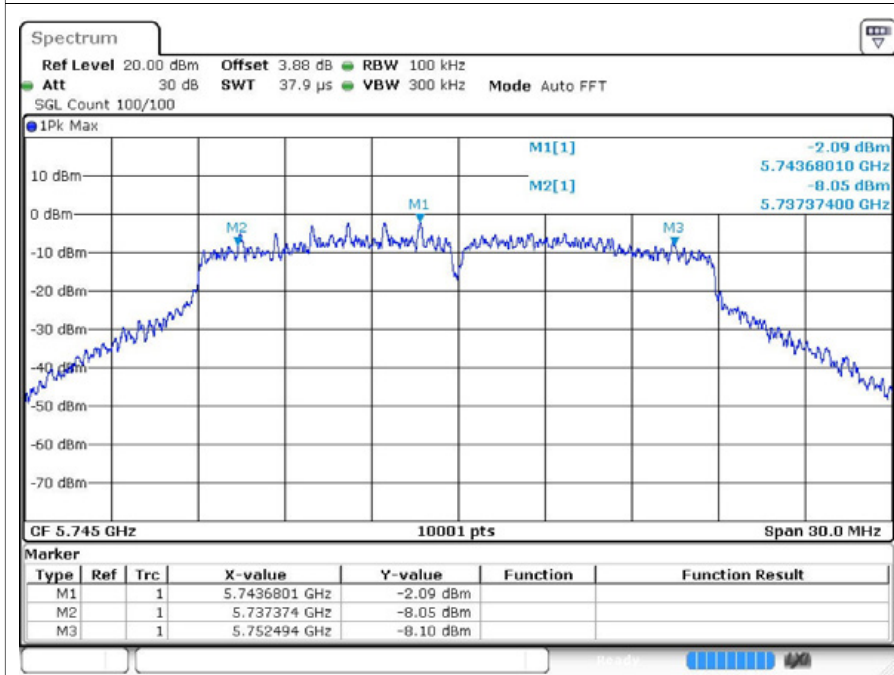
-6dB Bandwidth n40 5755MHz Ant1



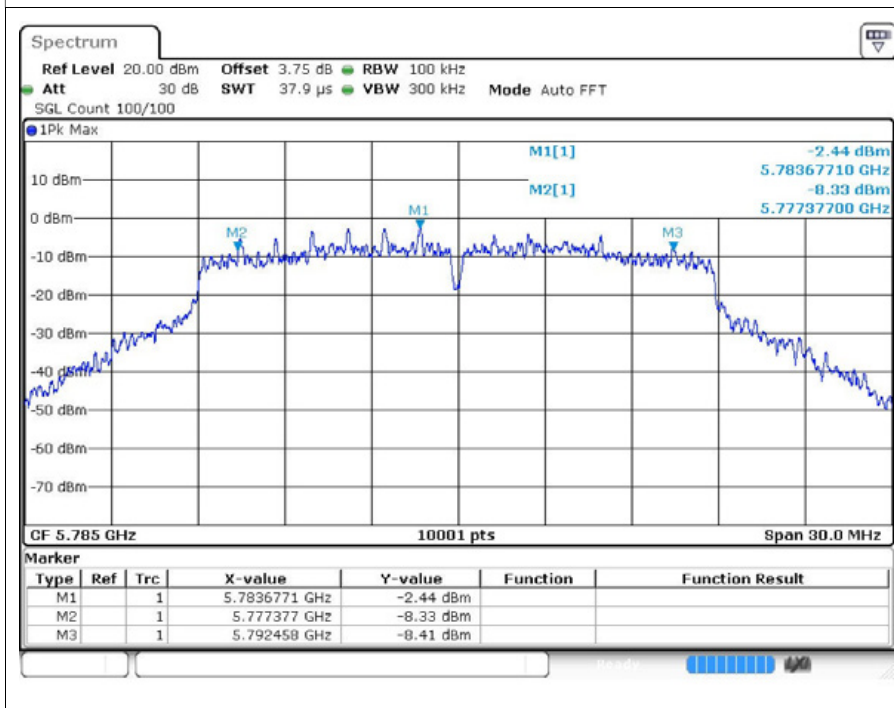
-6dB Bandwidth n40 5795MHz Ant1



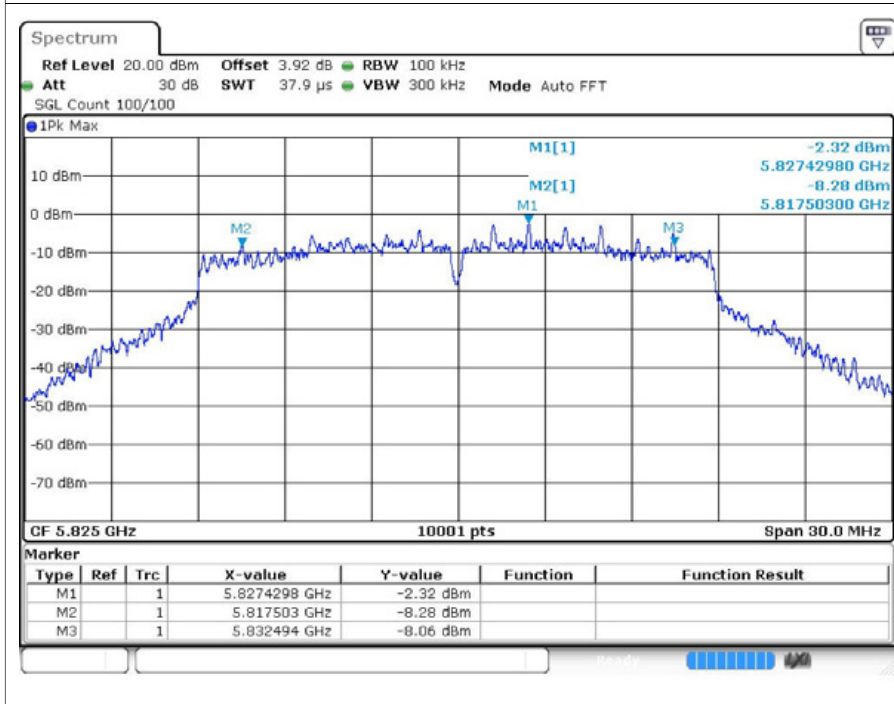
-6dB Bandwidth ac20 5745MHz Ant1



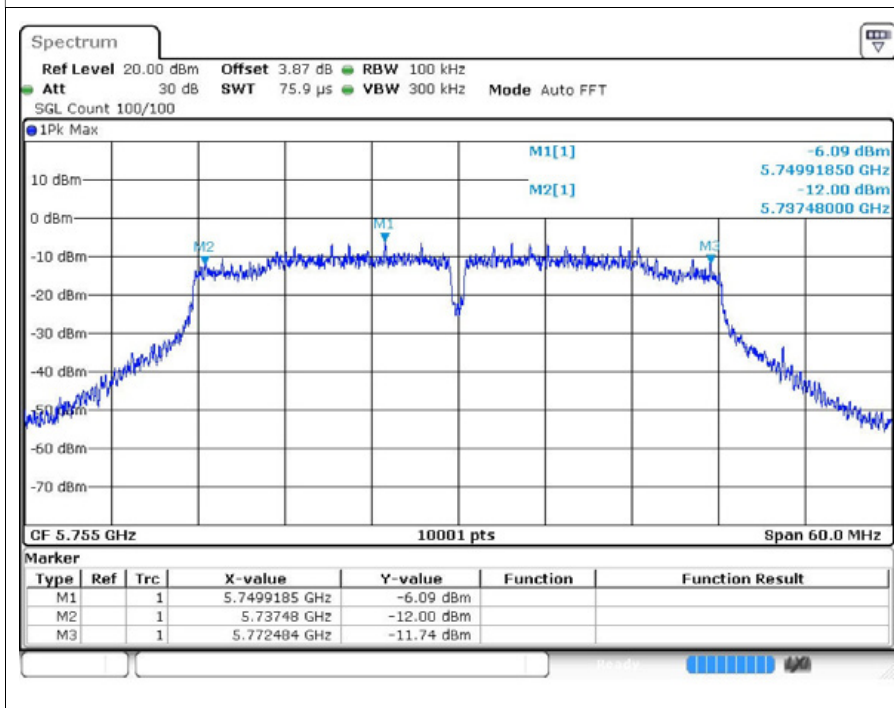
-6dB Bandwidth ac20 5785MHz Ant1



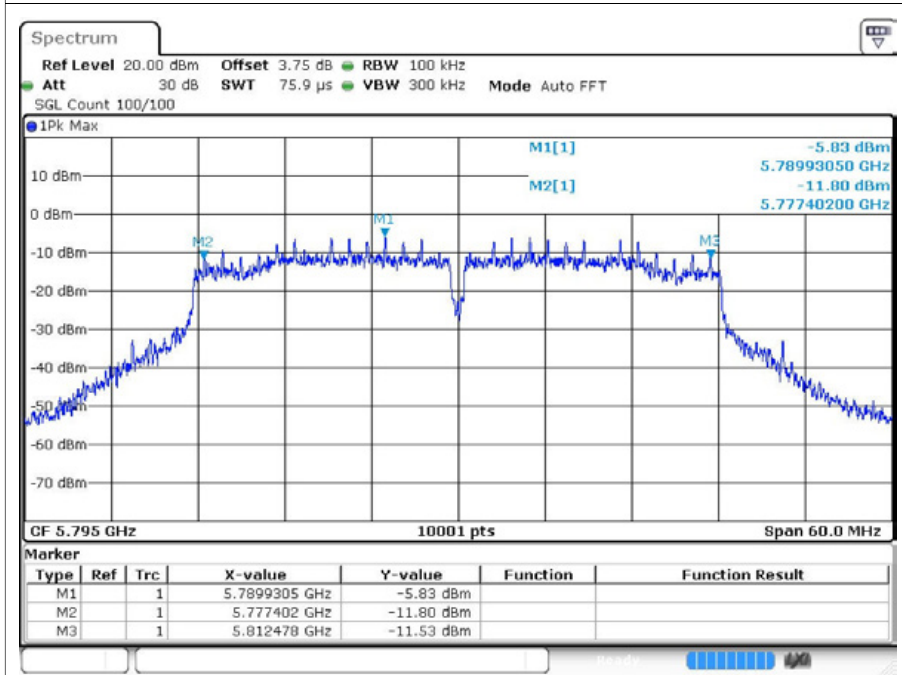
-6dB Bandwidth ac20 5825MHz Ant1



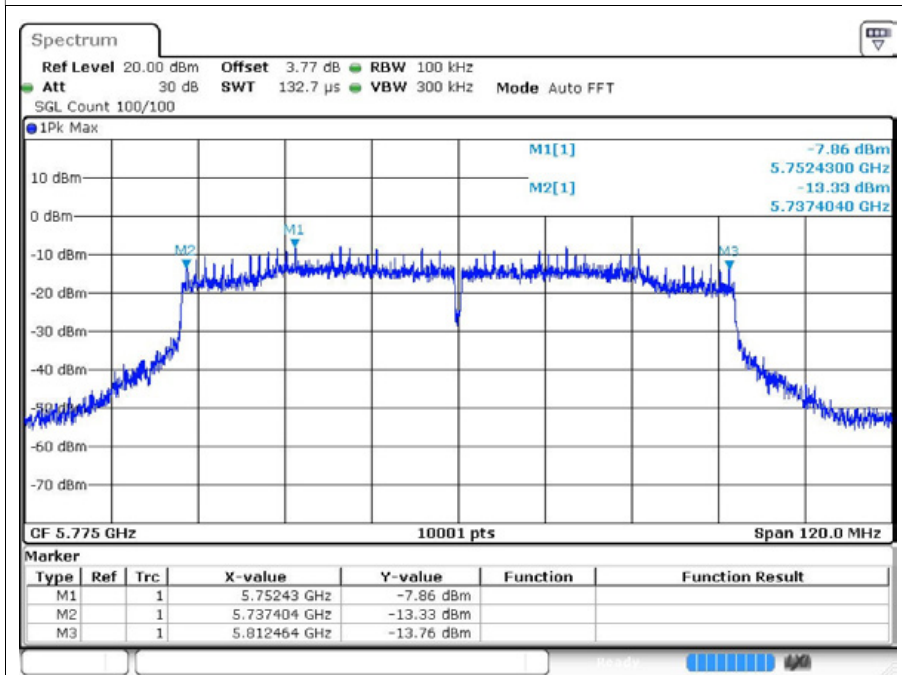
-6dB Bandwidth ac40 5755MHz Ant1



-6dB Bandwidth ac40 5795MHz Ant1



-6dB Bandwidth ac80 5775MHz Ant1



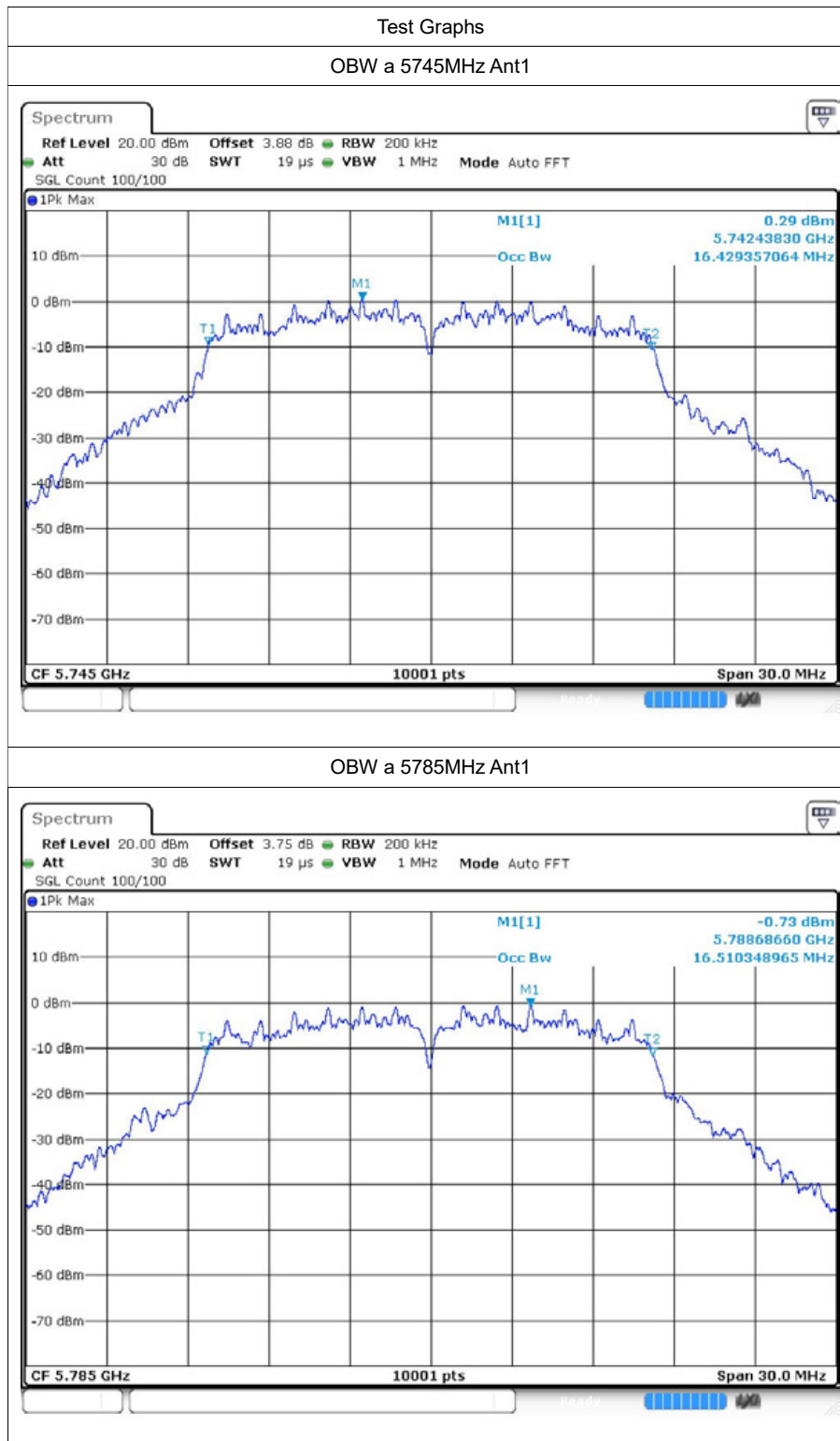


4 Occupied Channel Bandwidth

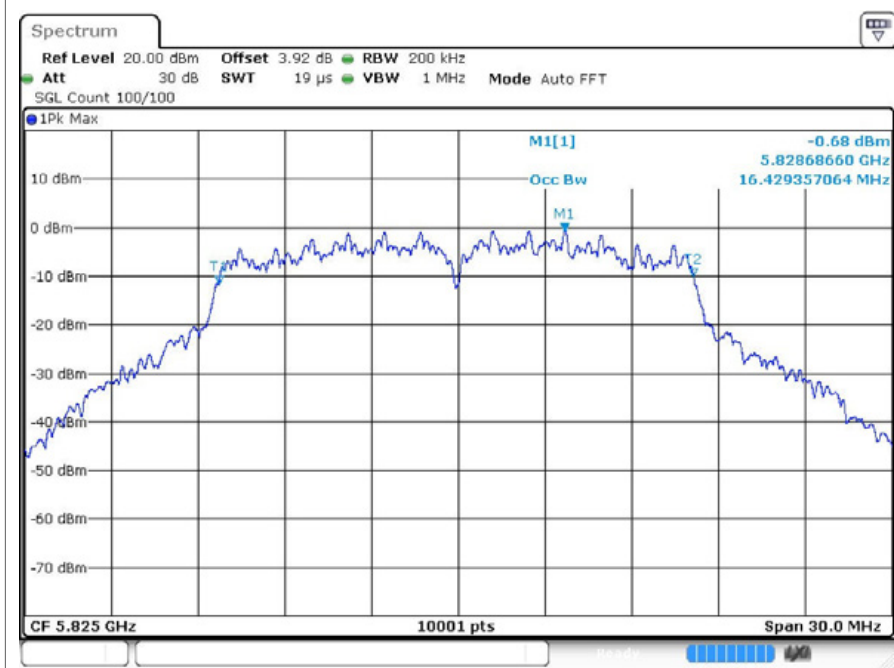
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5745	Ant1	16.429
a	5785	Ant1	16.51
a	5825	Ant1	16.429
n20	5745	Ant1	17.647
n20	5785	Ant1	17.698
n20	5825	Ant1	17.548
n40	5755	Ant1	35.918
n40	5795	Ant1	36.086
ac20	5745	Ant1	17.611
ac20	5785	Ant1	17.557
ac20	5825	Ant1	17.584
ac40	5755	Ant1	36.044
ac40	5795	Ant1	36.104
ac80	5775	Ant1	75.508

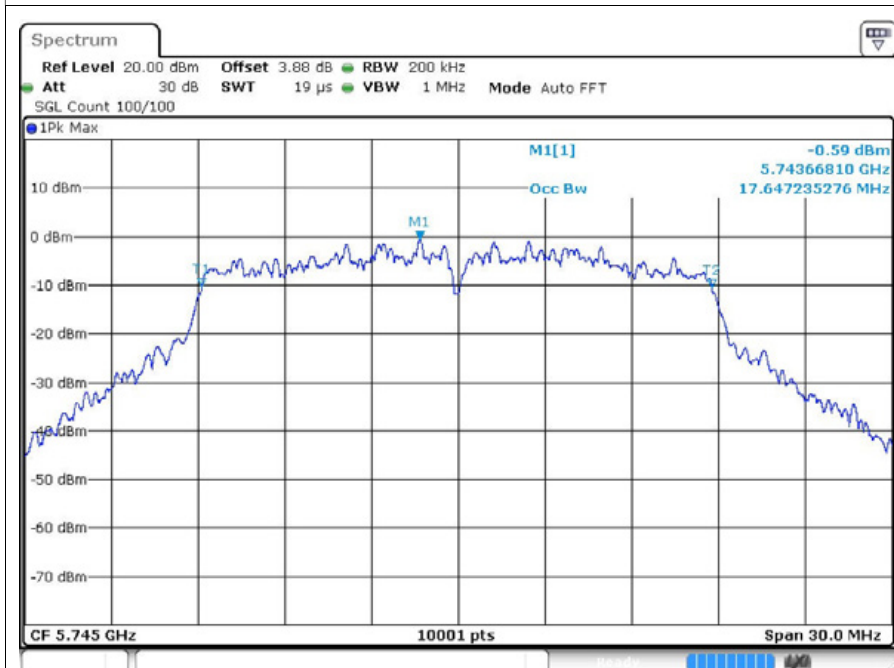
4.2 Test Graphs



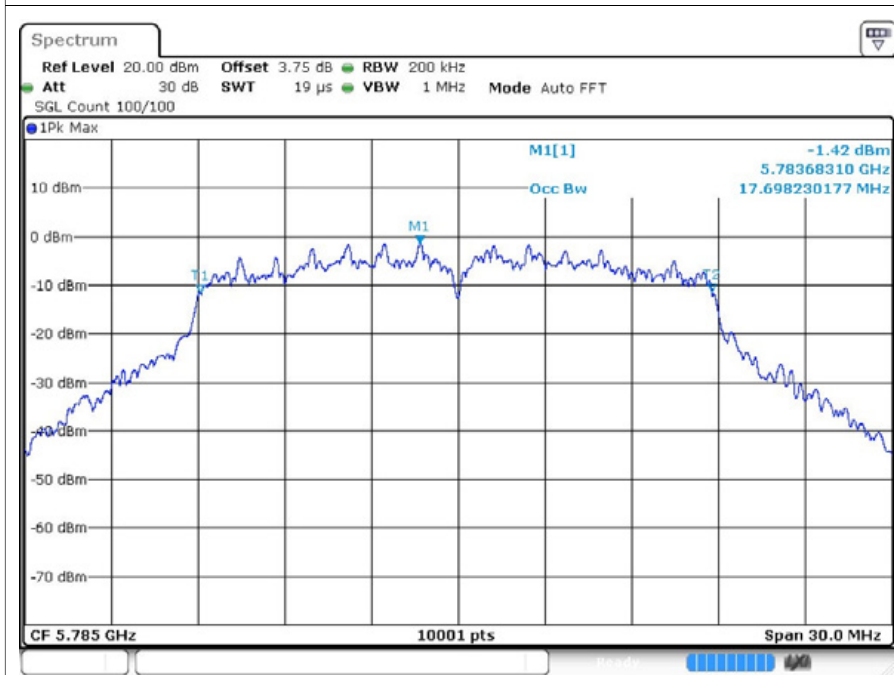
OBW a 5825MHz Ant1



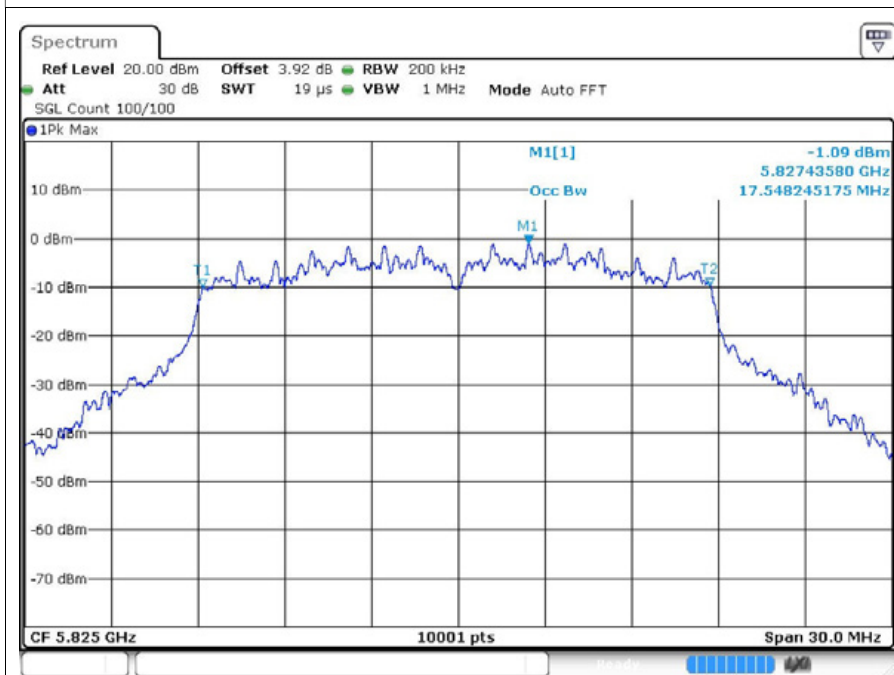
OBW n20 5745MHz Ant1



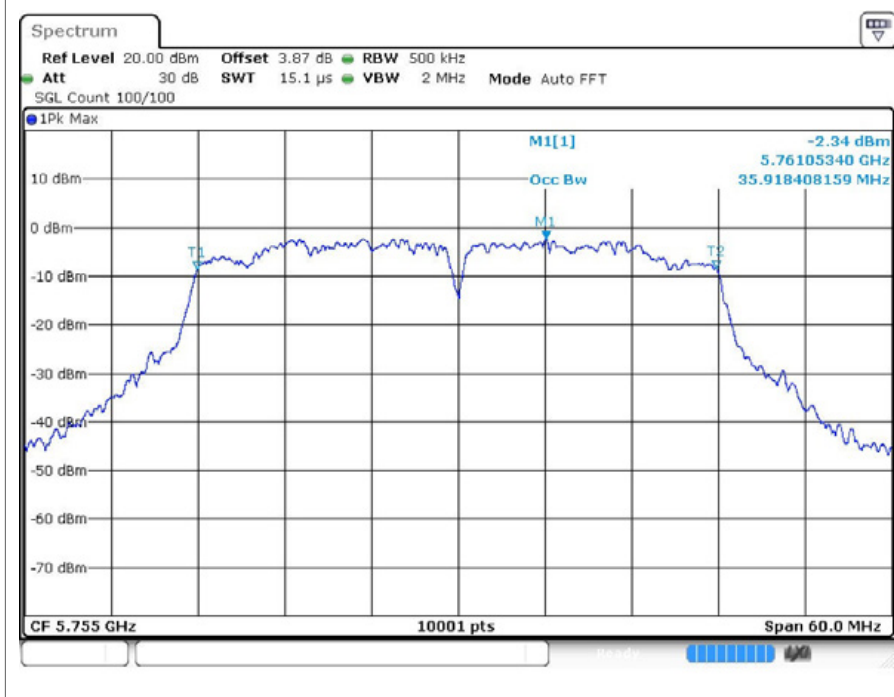
OBW n20 5785MHz Ant1



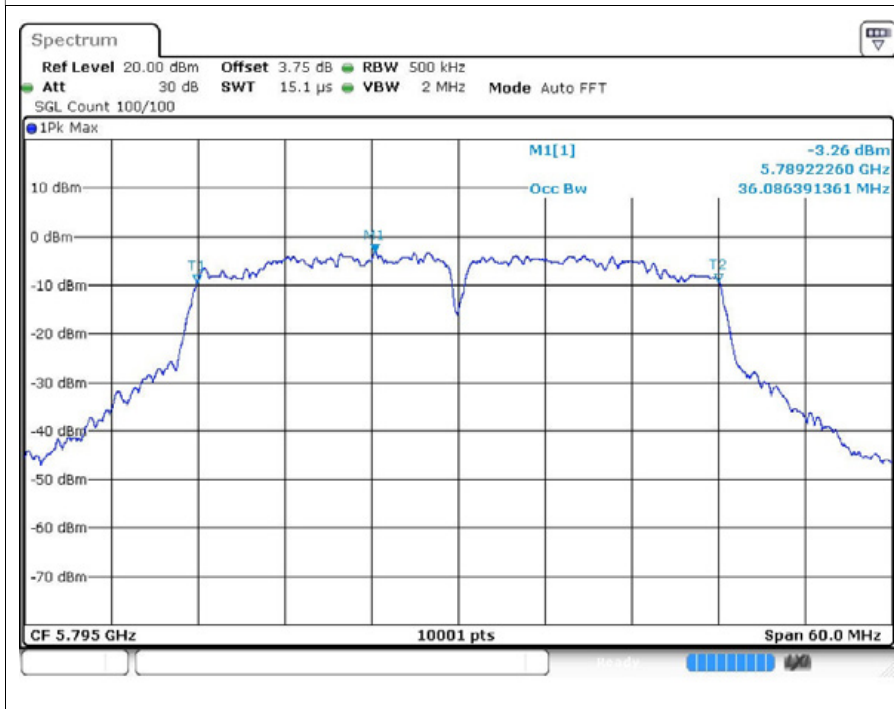
OBW n20 5825MHz Ant1



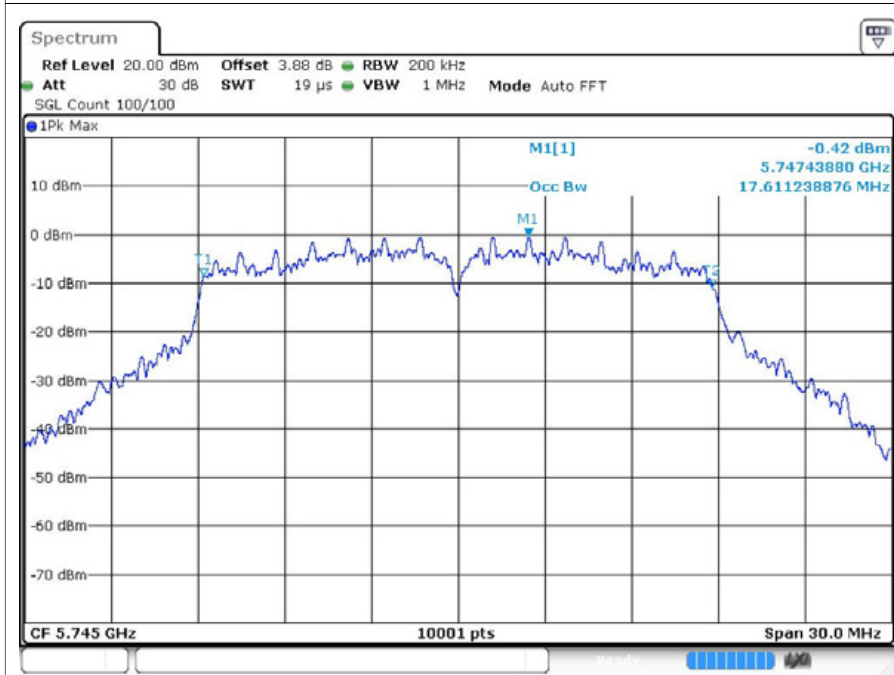
OBW n40 5755MHz Ant1



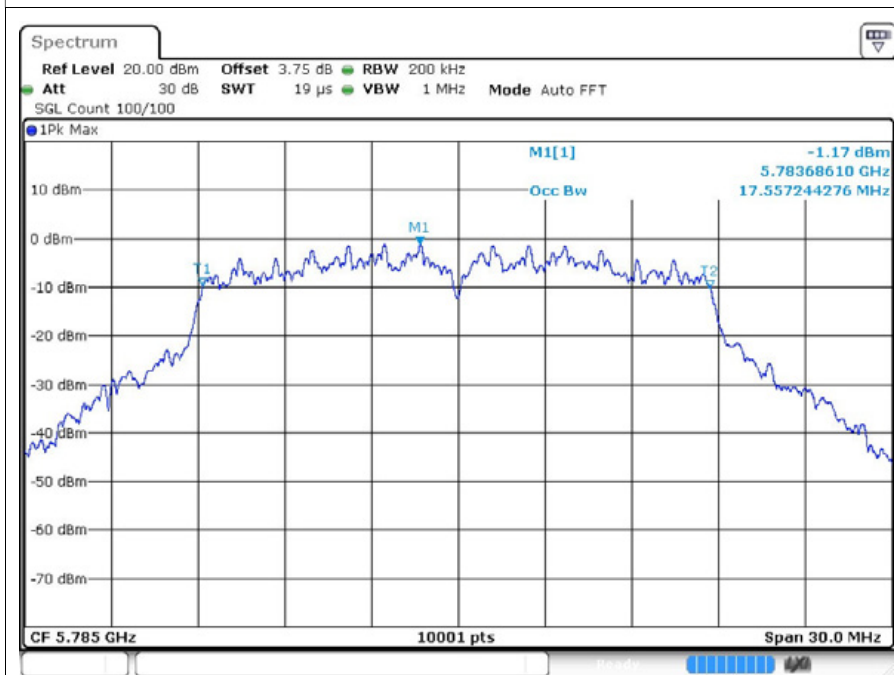
OBW n40 5795MHz Ant1



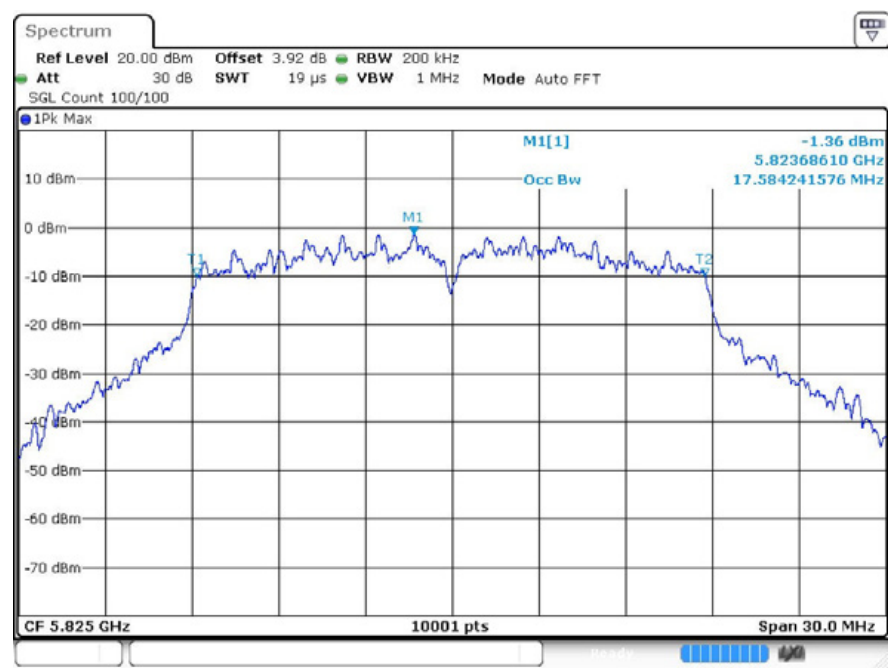
OBW ac20 5745MHz Ant1



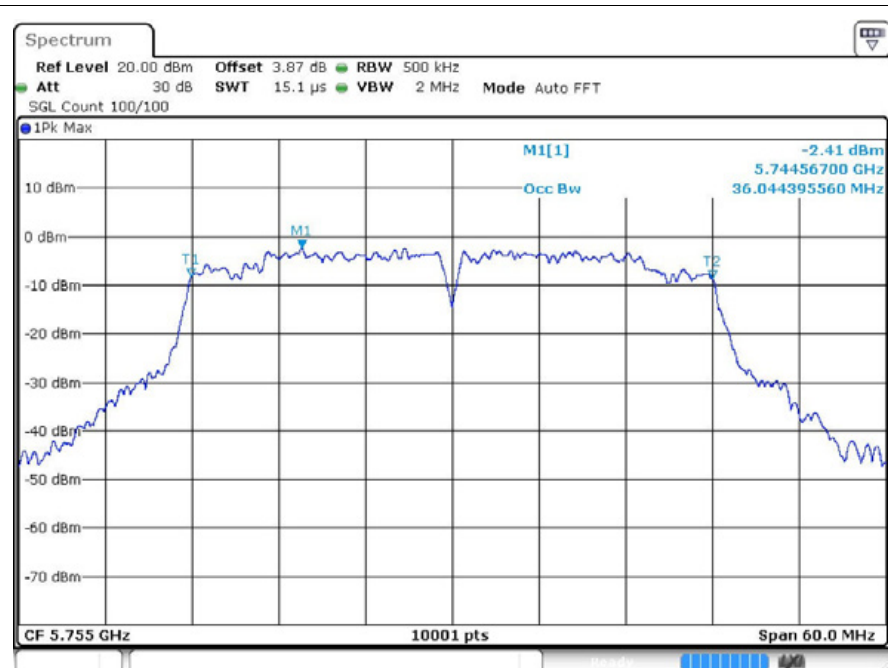
OBW ac20 5785MHz Ant1



OBW ac20 5825MHz Ant1

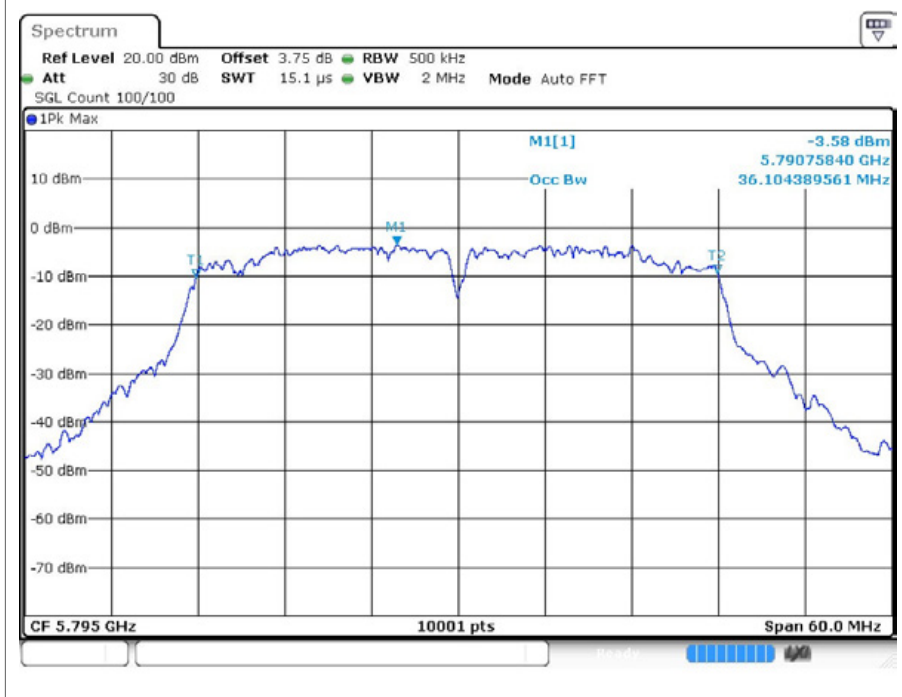


OBW ac40 5755MHz Ant1

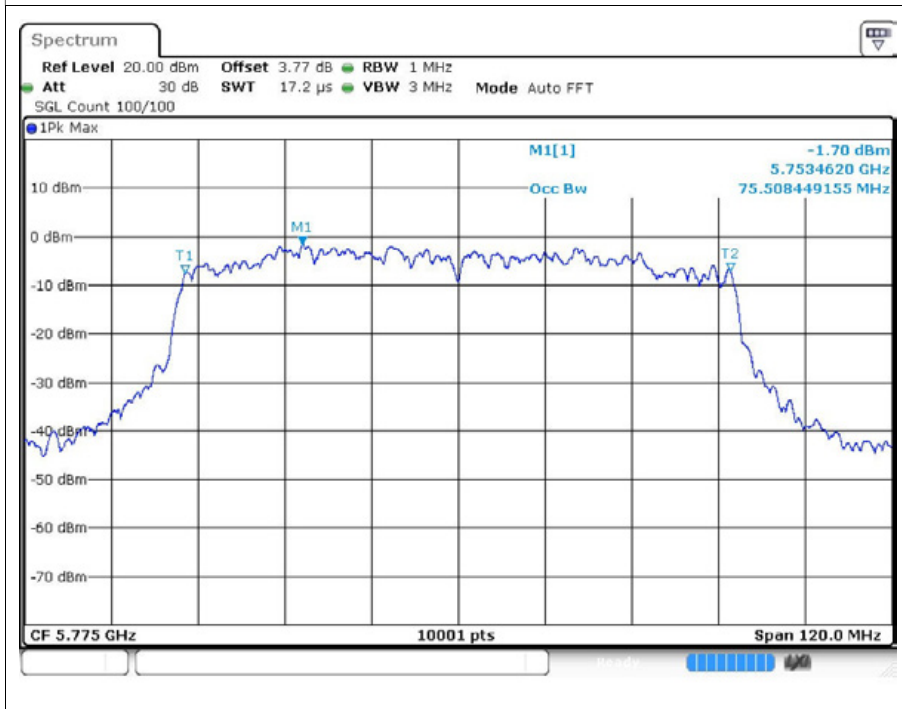




OBW ac40 5795MHz Ant1



OBW ac80 5775MHz Ant1





5 Maximum Power Spectral Density Level

5.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	-4.75	0.6	-4.15	30	Pass
a	5785	Ant1	-5.74	0.62	-5.12	30	Pass
a	5825	Ant1	-5.41	0.63	-4.78	30	Pass
n20	5745	Ant1	-5.42	0.57	-4.85	30	Pass
n20	5785	Ant1	-6.15	0.57	-5.58	30	Pass
n20	5825	Ant1	-5.99	0.57	-5.42	30	Pass
n40	5755	Ant1	-8.81	0.55	-8.26	30	Pass
n40	5795	Ant1	-10.27	0.55	-9.72	30	Pass
ac20	5745	Ant1	-6.68	0.59	-6.09	30	Pass
ac20	5785	Ant1	-5.73	0.6	-5.13	30	Pass
ac20	5825	Ant1	-6.33	0.6	-5.73	30	Pass
ac40	5755	Ant1	-9.52	0.6	-8.92	30	Pass
ac40	5795	Ant1	-9.68	0.6	-9.08	30	Pass
ac80	5775	Ant1	-11.49	0.59	-10.9	30	Pass

5.2 Test Graphs

