



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Mini PC

Trade Mark: Huidun

Test Model: H30

Environmental Conditions

Temperature:	24.8℃
Relative Humidity:	52.3%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



Contents

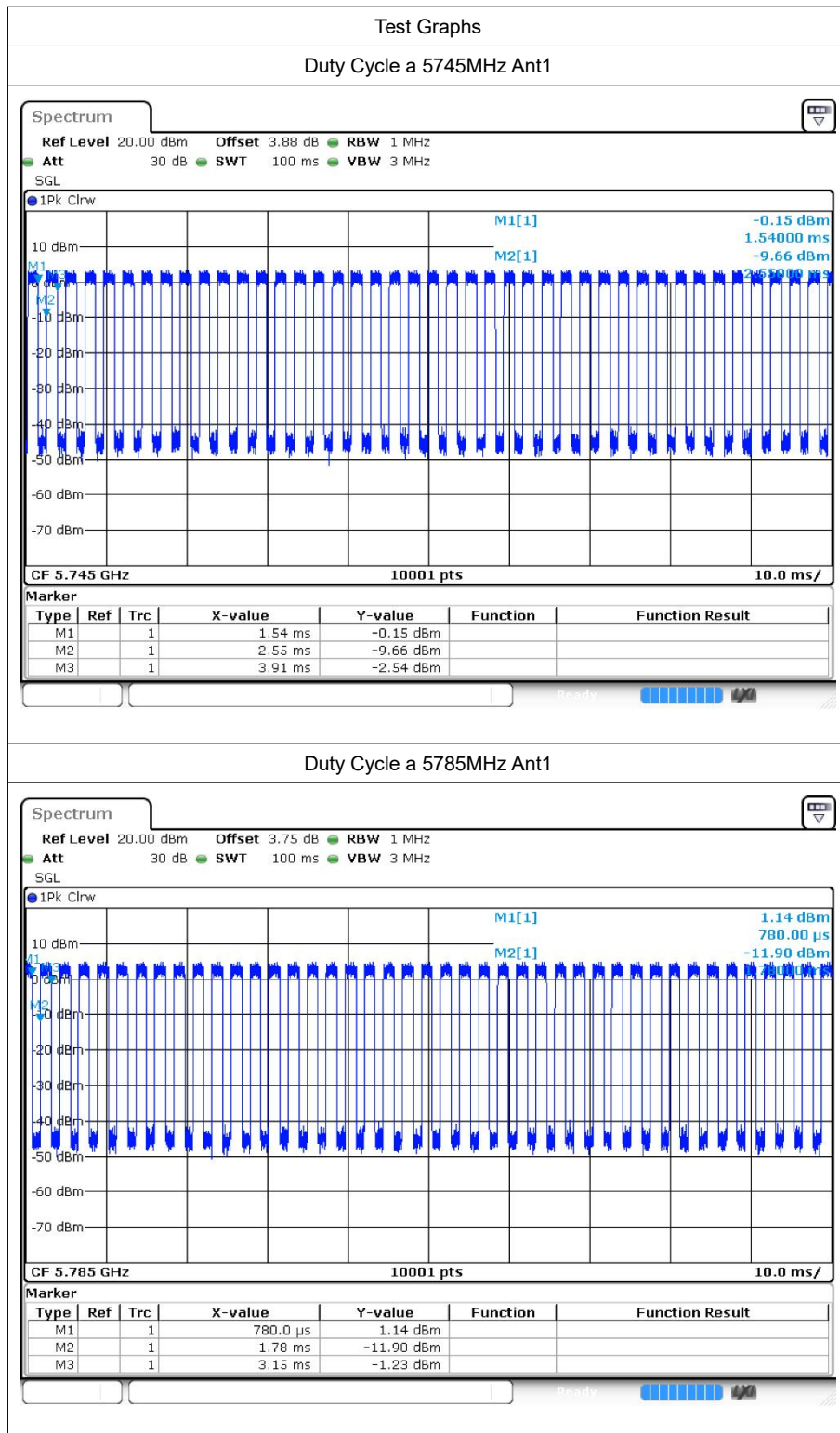
	Page
COVER PAGE	
1 Duty Cycle.....	3
1.1 Test Result.....	3
1.2 Test Graphs.....	4
2 Maximum Conducted Output Power.....	11
2.1 Test Result.....	11
3 -6dB Bandwidth.....	12
3.1 Test Result.....	12
3.2 Test Graphs.....	13
4 Occupied Channel Bandwidth.....	20
4.1 Test Result.....	20
4.2 Test Graphs.....	21
5 Maximum Power Spectral Density Level.....	28
5.1 Test Result.....	28
5.2 Test Graphs.....	29
6 Frequency Stability.....	36
6.1 Test Result.....	36
7 Conducted RF Spurious Emission.....	40
7.1 Test Result.....	40
7.2 Test Graphs.....	41

1 Duty Cycle

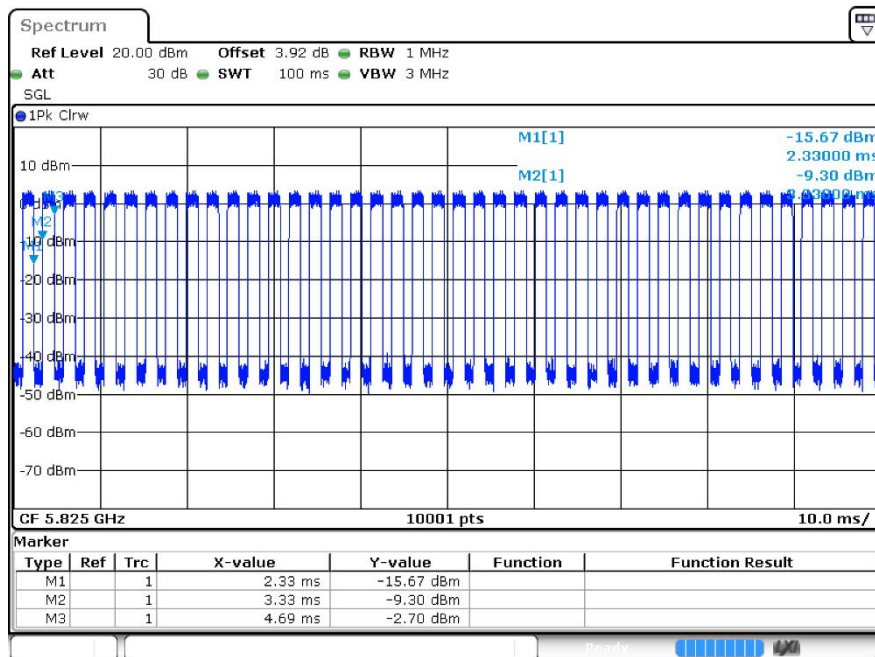
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	58.13	2.36	0.74
a	5785	Ant1	58.3	2.34	0.73
a	5825	Ant1	57.63	2.39	0.74
n20	5745	Ant1	56.3	2.49	0.78
n20	5785	Ant1	56.47	2.48	0.78
n20	5825	Ant1	56.32	2.49	0.79
n40	5755	Ant1	48.38	3.15	1.08
n40	5795	Ant1	48.57	3.14	1.08
ac20	5745	Ant1	56.32	2.49	0.79
ac20	5785	Ant1	56.29	2.5	0.78
ac20	5825	Ant1	56.64	2.47	0.78
ac40	5755	Ant1	49	3.1	1.06
ac40	5795	Ant1	48.82	3.11	1.06
ac80	5775	Ant1	42.54	3.71	1.43

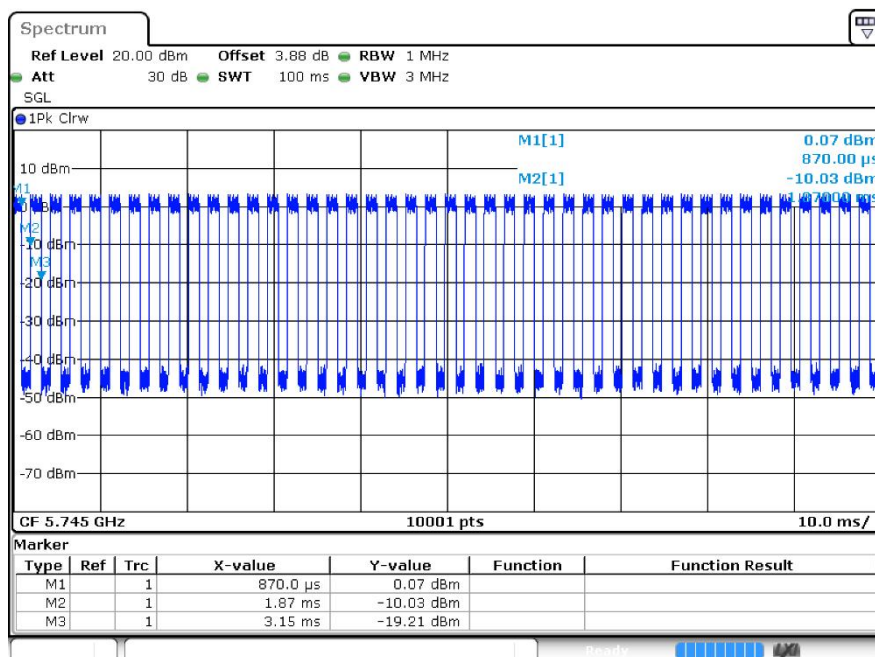
1.2 Test Graphs



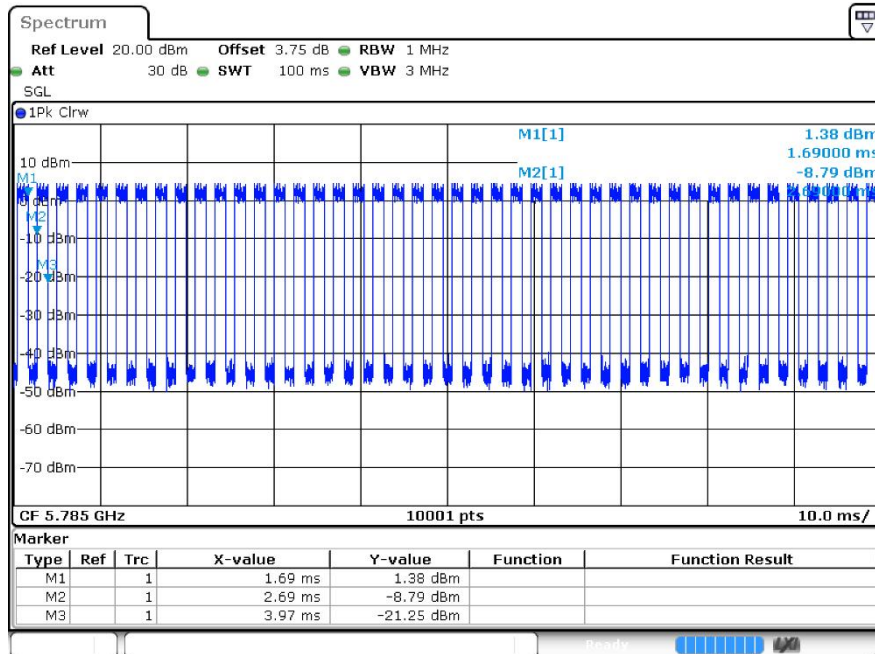
Duty Cycle a 5825MHz Ant1



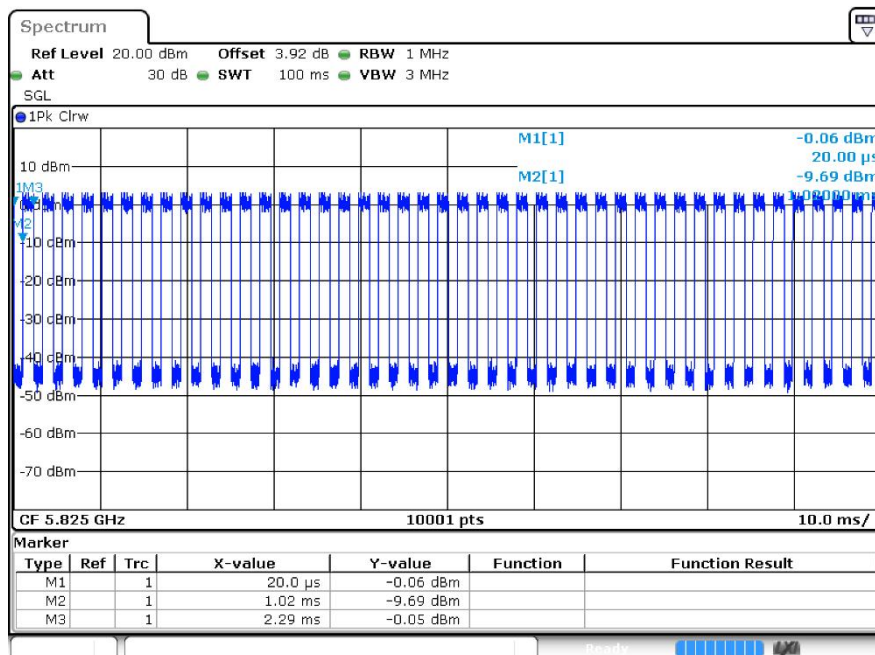
Duty Cycle n20 5745MHz Ant1



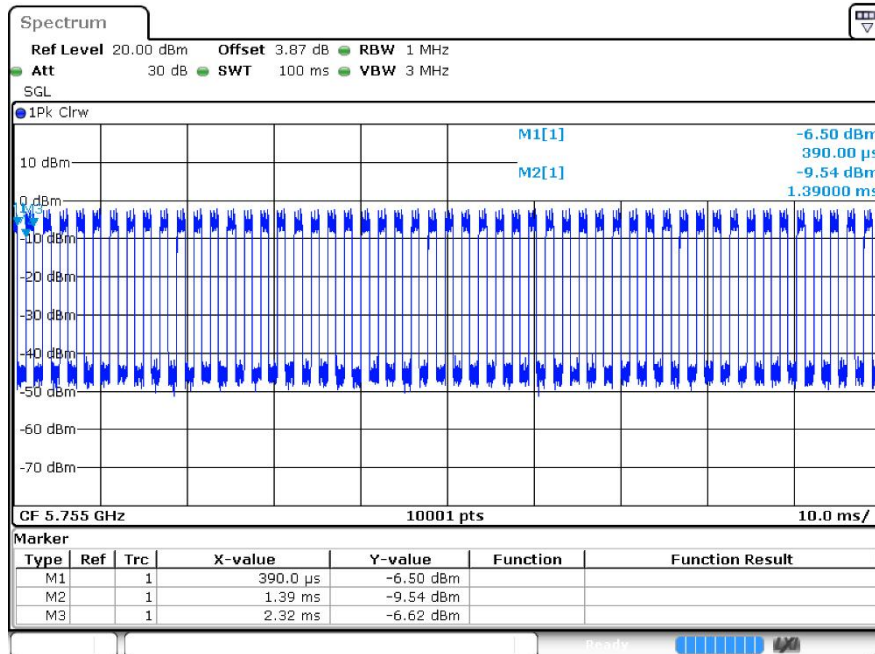
Duty Cycle n20 5785MHz Ant1



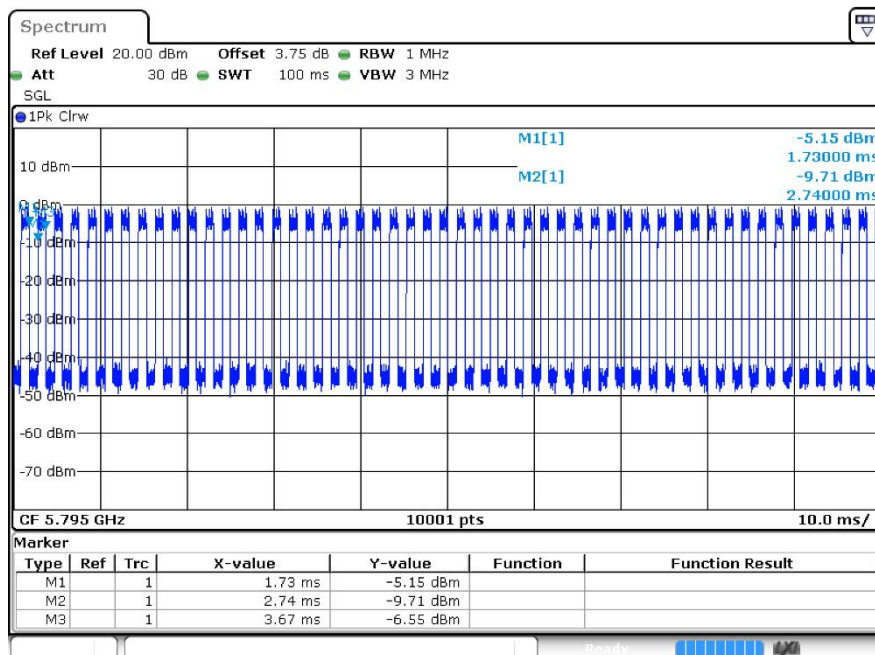
Duty Cycle n20 5825MHz Ant1



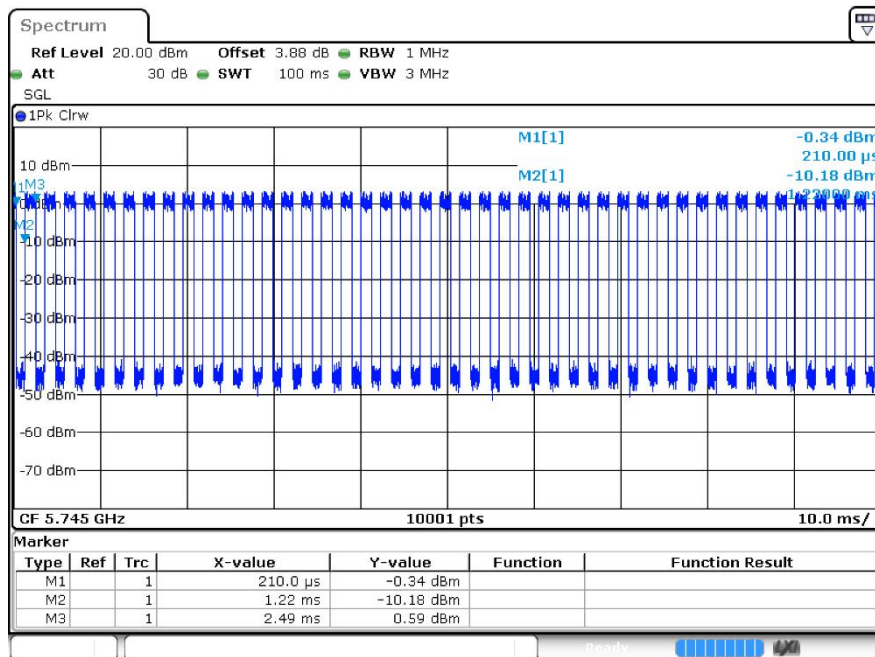
Duty Cycle n40 5755MHz Ant1



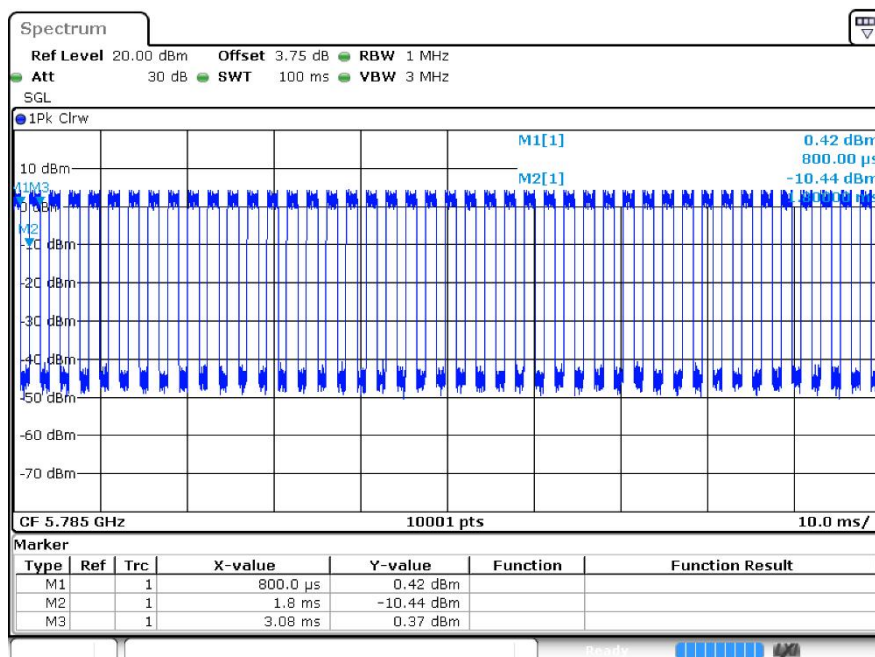
Duty Cycle n40 5795MHz Ant1



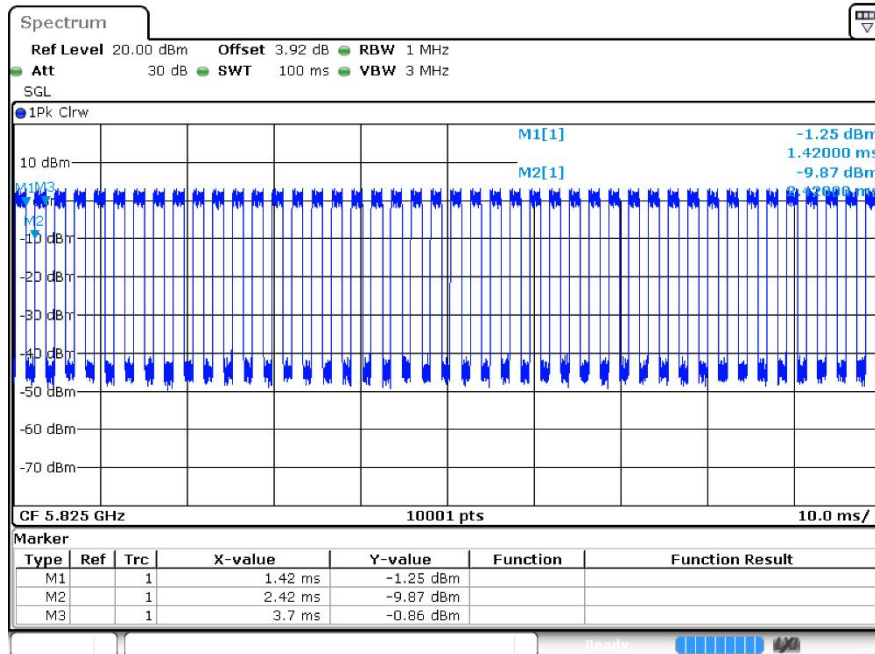
Duty Cycle ac20 5745MHz Ant1



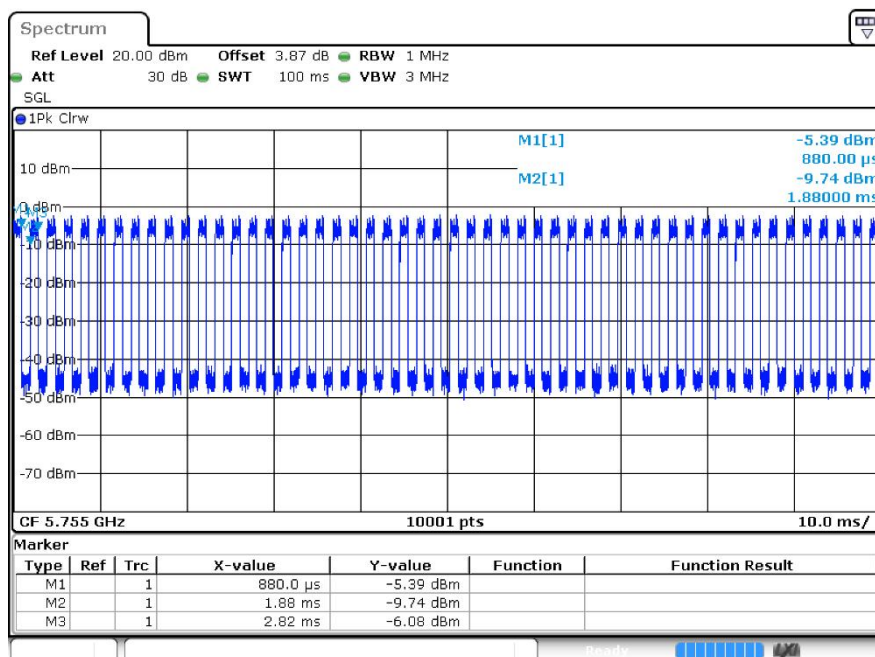
Duty Cycle ac20 5785MHz Ant1



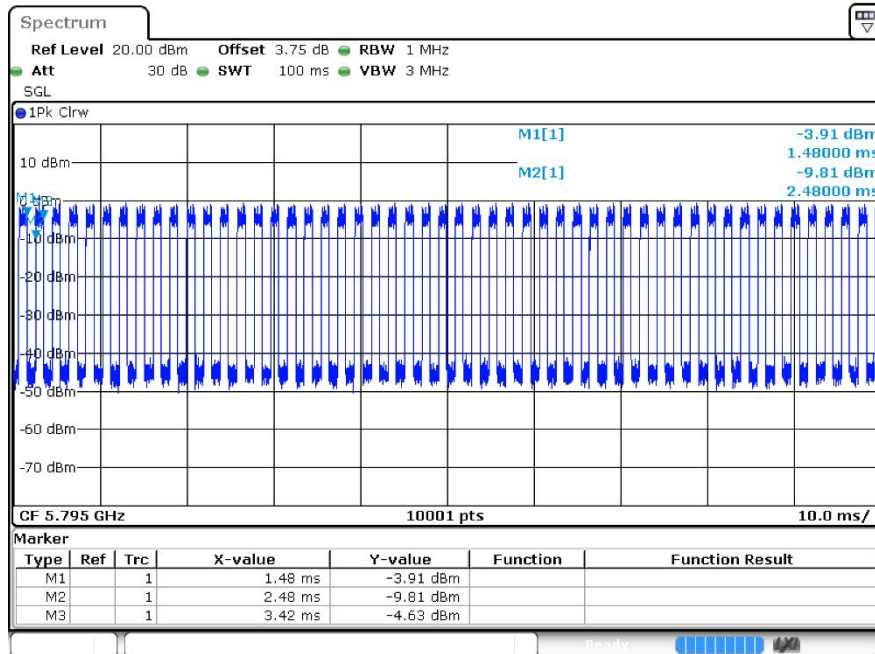
Duty Cycle ac20 5825MHz Ant1



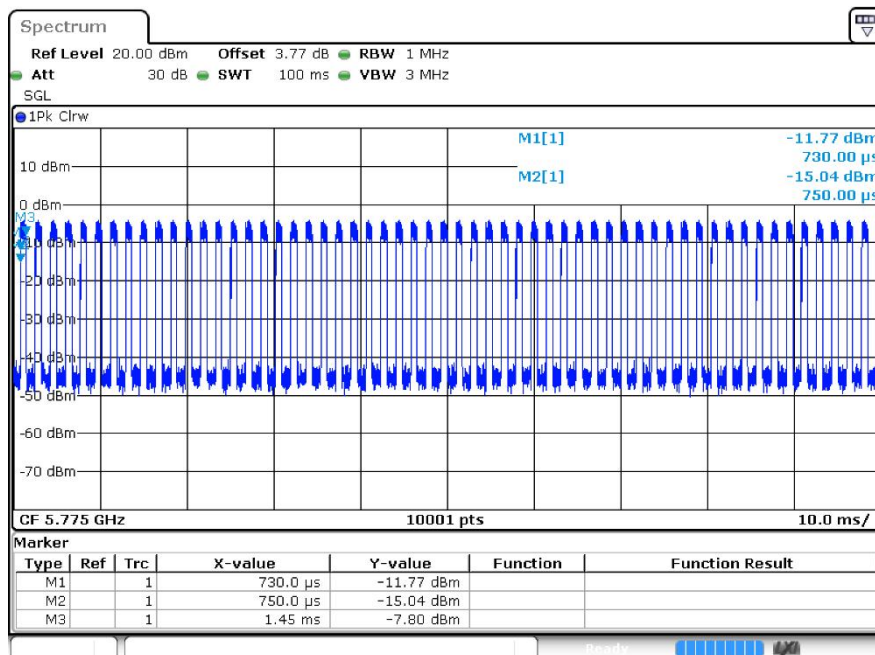
Duty Cycle ac40 5755MHz Ant1



Duty Cycle ac40 5795MHz Ant1



Duty Cycle ac80 5775MHz Ant1



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	12.6	30	Pass
a	5785	Ant1	13.76	30	Pass
a	5825	Ant1	12.51	30	Pass
n20	5745	Ant1	12.29	30	Pass
n20	5785	Ant1	13.52	30	Pass
n20	5825	Ant1	12.31	30	Pass
n40	5755	Ant1	12.03	30	Pass
n40	5795	Ant1	12.81	30	Pass
ac20	5745	Ant1	12.22	30	Pass
ac20	5785	Ant1	13.38	30	Pass
ac20	5825	Ant1	12.26	30	Pass
ac40	5755	Ant1	11.93	30	Pass
ac40	5795	Ant1	12.96	30	Pass
ac80	5775	Ant1	12.16	30	Pass

Note:

The duty factor has been compensated into the result.

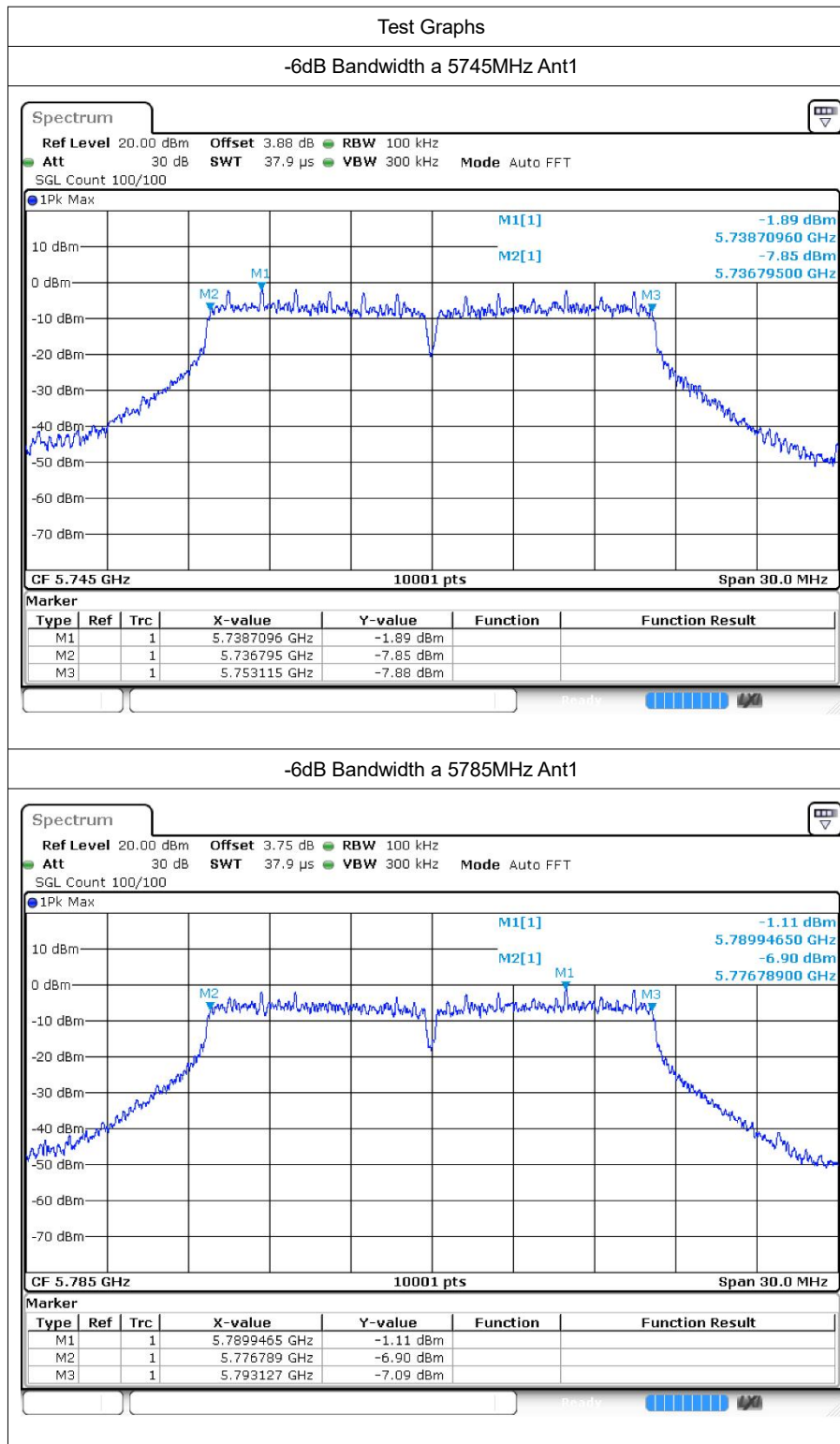


3 -6dB Bandwidth

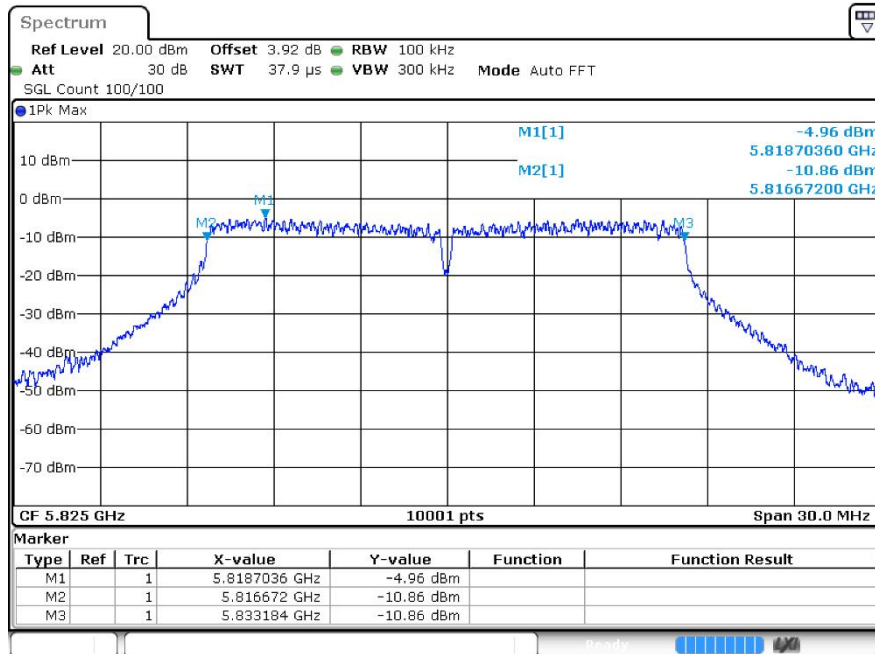
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	16.32	0.5	Pass
a	5785	Ant1	16.338	0.5	Pass
a	5825	Ant1	16.512	0.5	Pass
n20	5745	Ant1	17.688	0.5	Pass
n20	5785	Ant1	17.547	0.5	Pass
n20	5825	Ant1	17.541	0.5	Pass
n40	5755	Ant1	35.436	0.5	Pass
n40	5795	Ant1	36.336	0.5	Pass
ac20	5745	Ant1	17.727	0.5	Pass
ac20	5785	Ant1	16.653	0.5	Pass
ac20	5825	Ant1	17.559	0.5	Pass
ac40	5755	Ant1	35.946	0.5	Pass
ac40	5795	Ant1	34.506	0.5	Pass
ac80	5775	Ant1	75.936	0.5	Pass

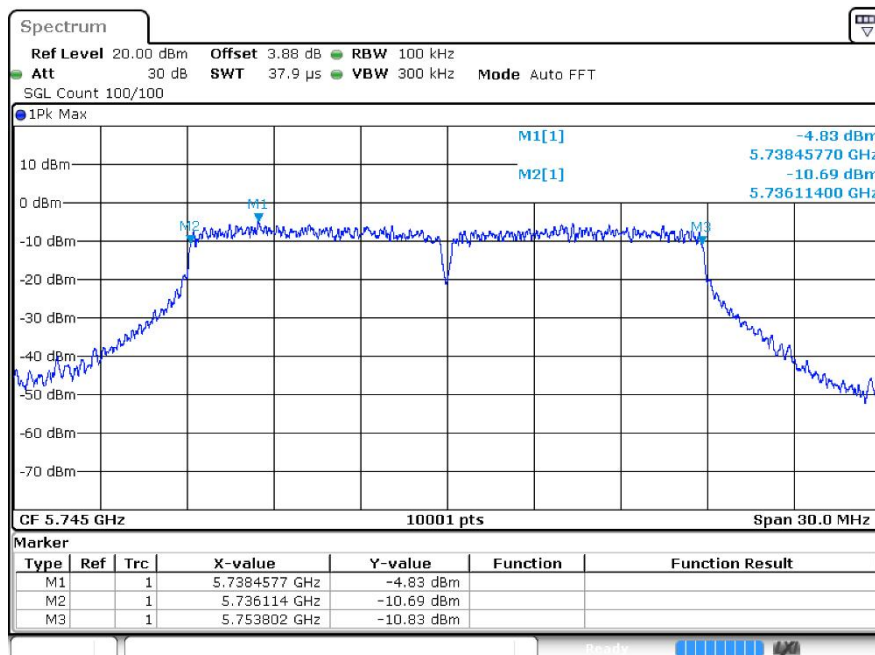
3.2 Test Graphs



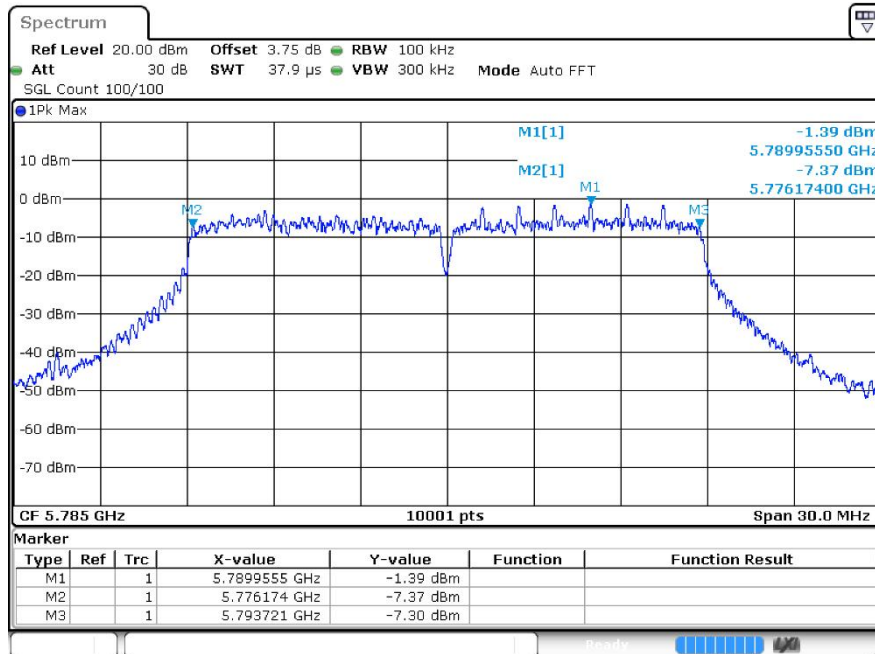
-6dB Bandwidth a 5825MHz Ant1



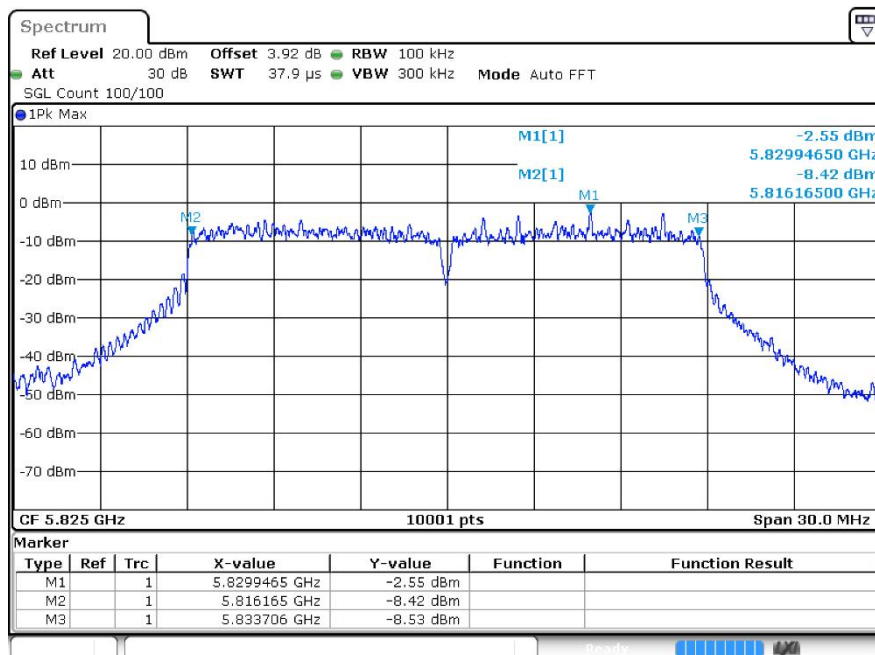
-6dB Bandwidth n20 5745MHz Ant1



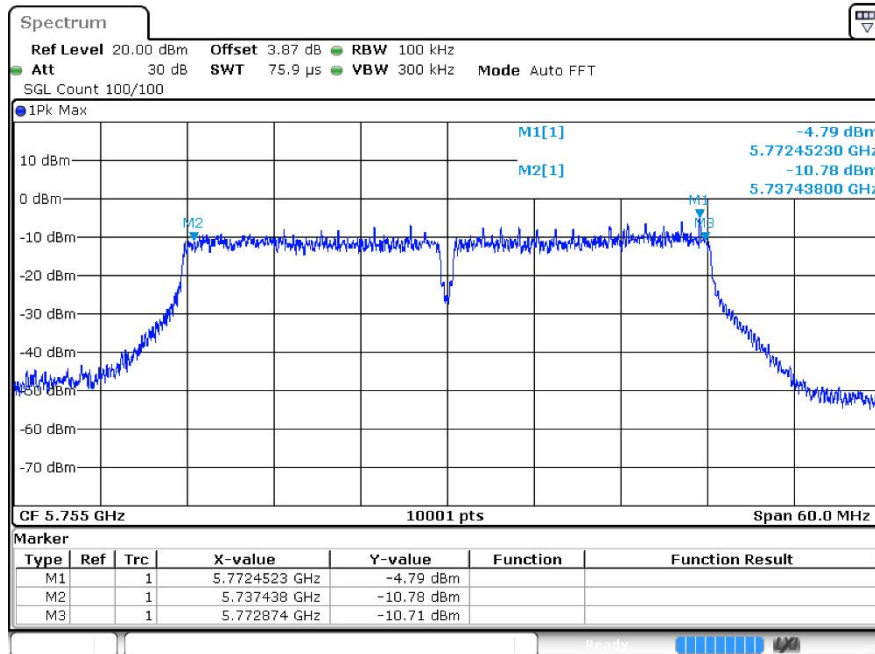
-6dB Bandwidth n20 5785MHz Ant1



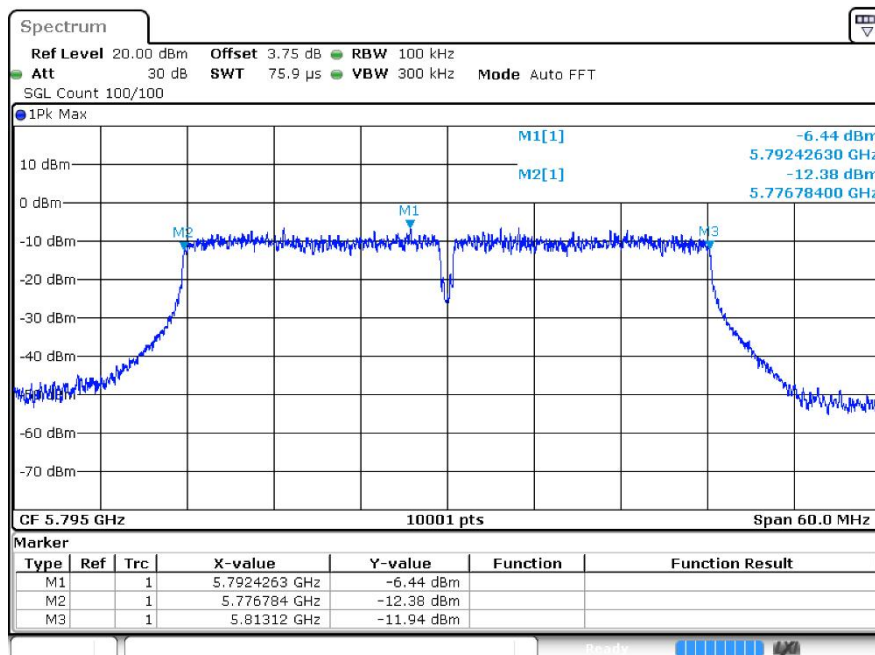
-6dB Bandwidth n20 5825MHz Ant1



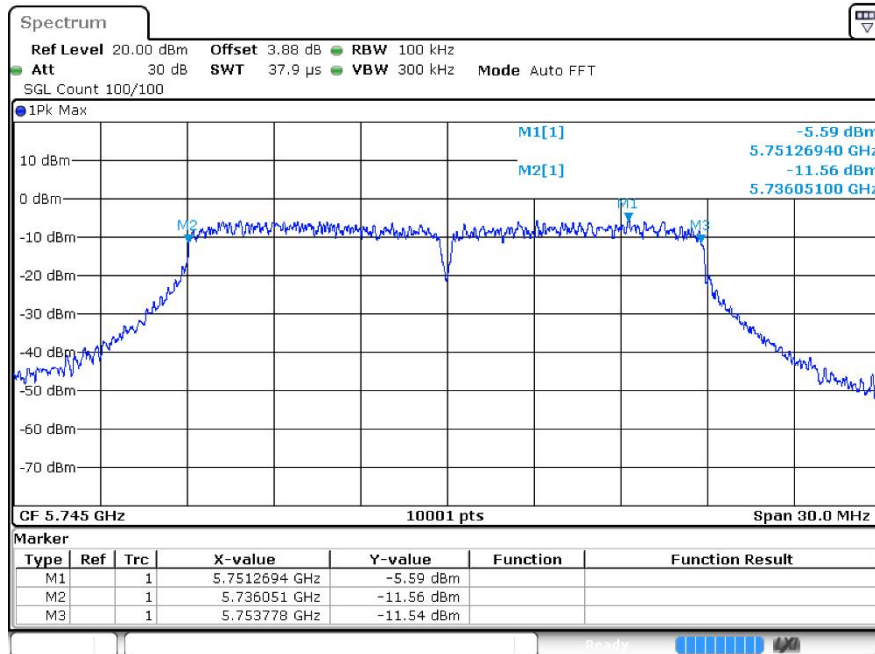
-6dB Bandwidth n40 5755MHz Ant1



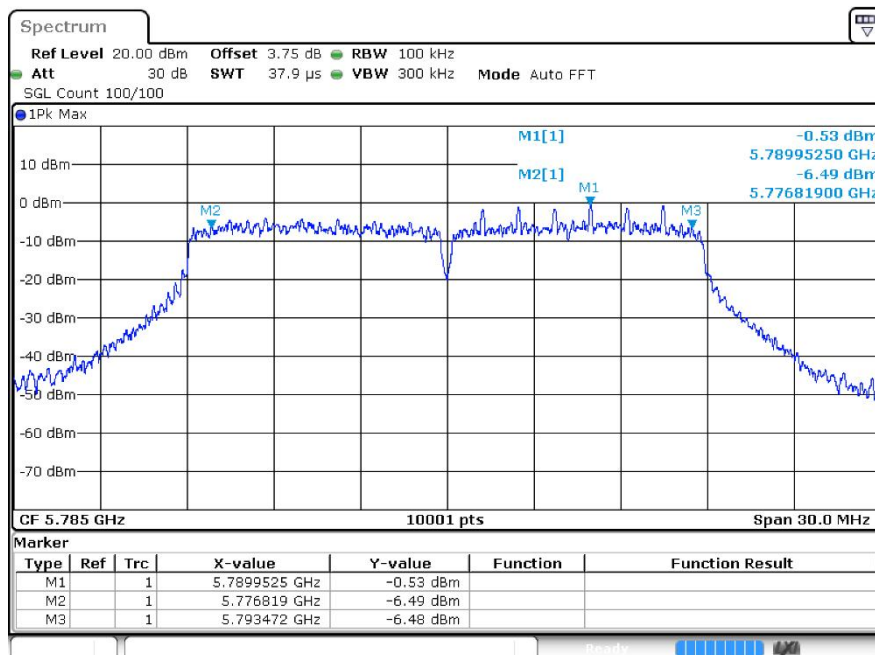
-6dB Bandwidth n40 5795MHz Ant1



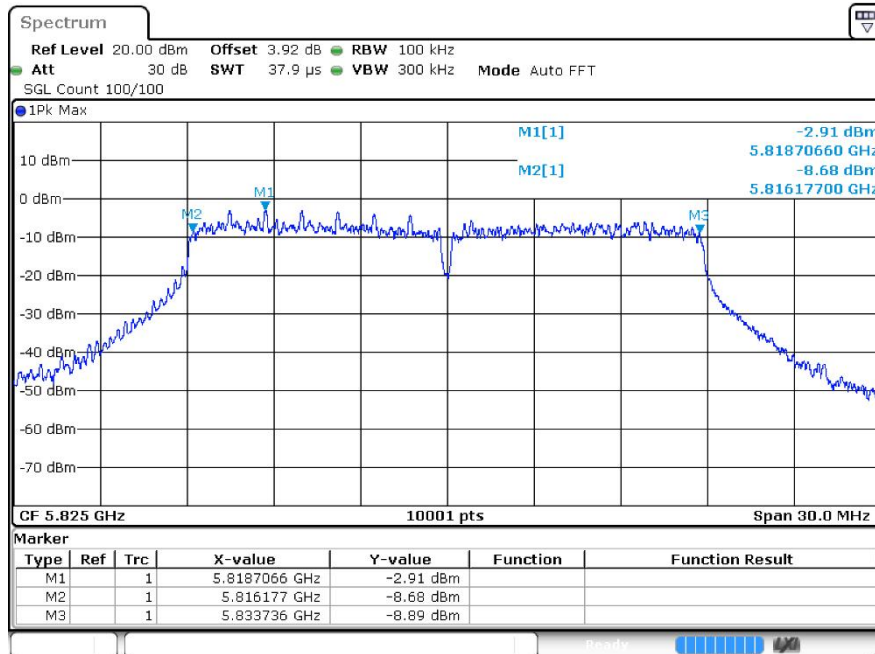
-6dB Bandwidth ac20 5745MHz Ant1



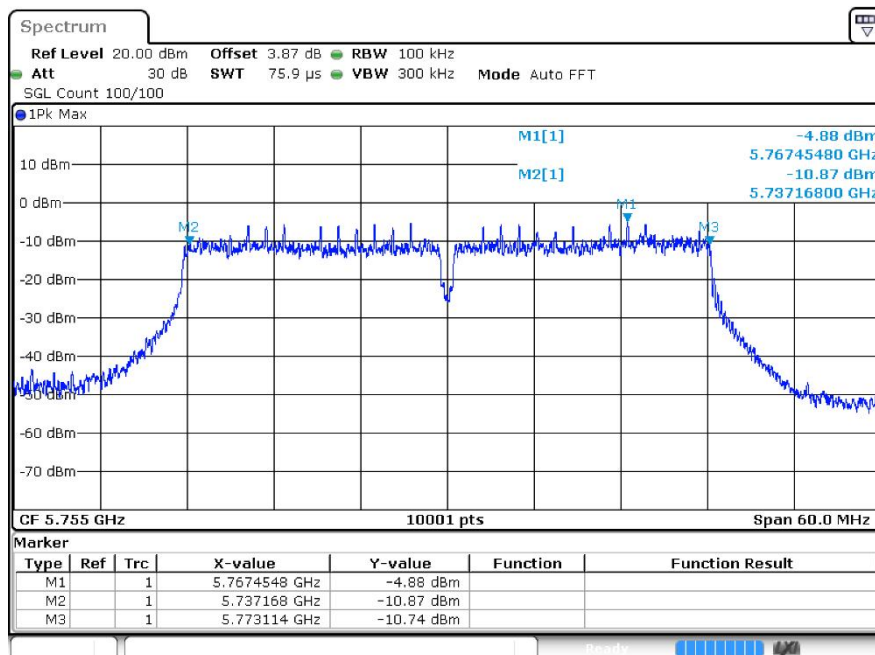
-6dB Bandwidth ac20 5785MHz Ant1



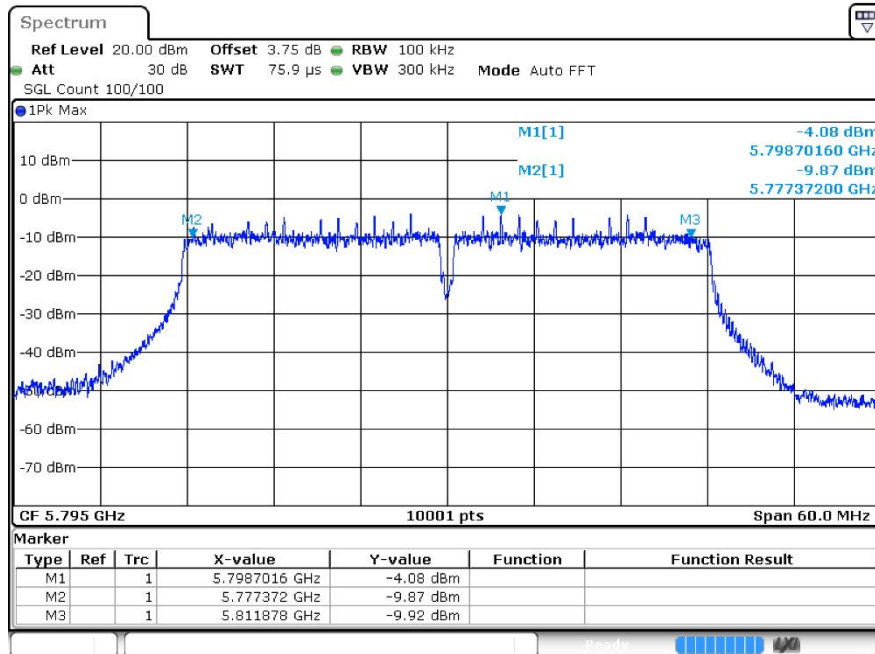
-6dB Bandwidth ac20 5825MHz Ant1



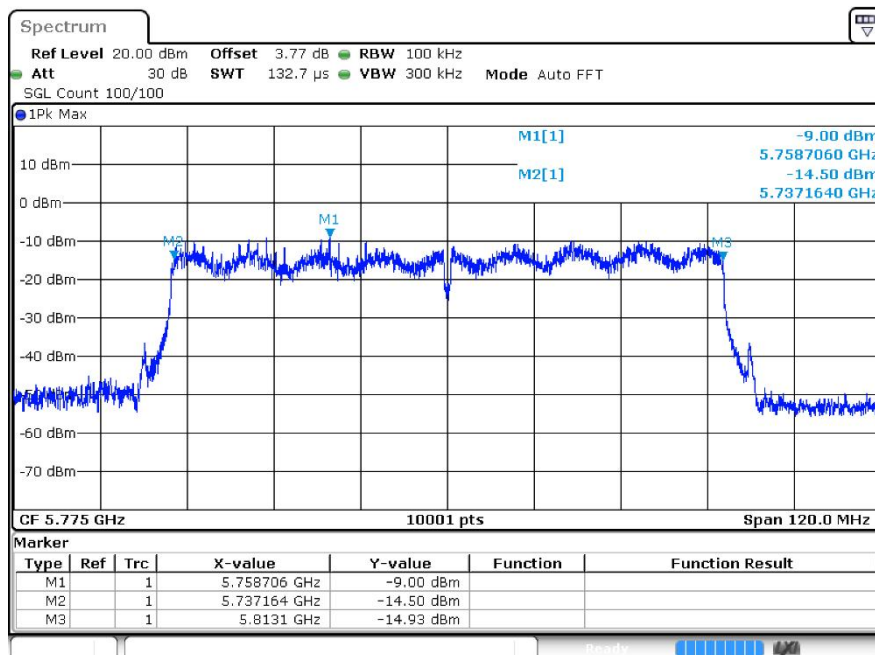
-6dB Bandwidth ac40 5755MHz Ant1



-6dB Bandwidth ac40 5795MHz Ant1



-6dB Bandwidth ac80 5775MHz Ant1



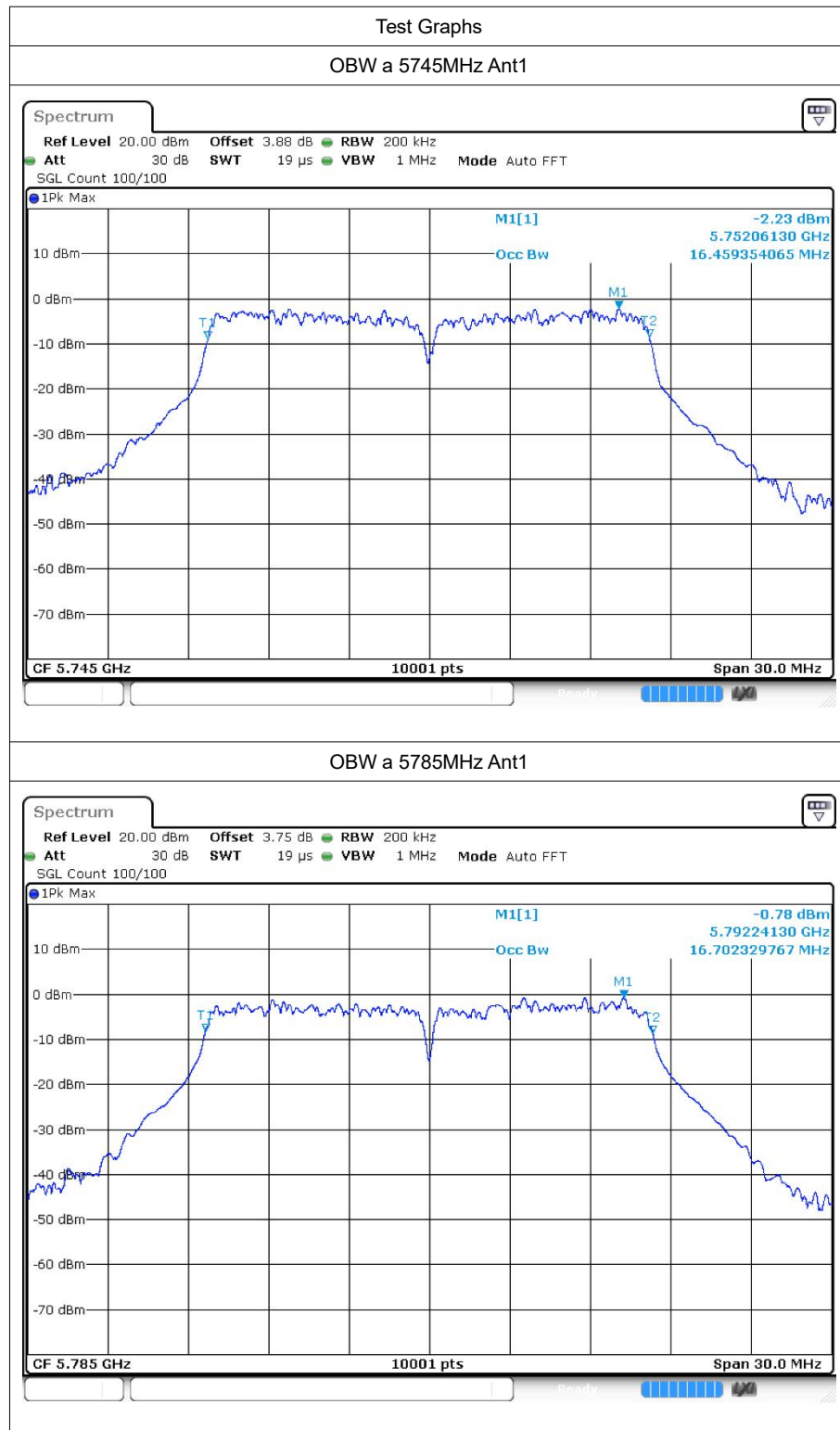


4 Occupied Channel Bandwidth

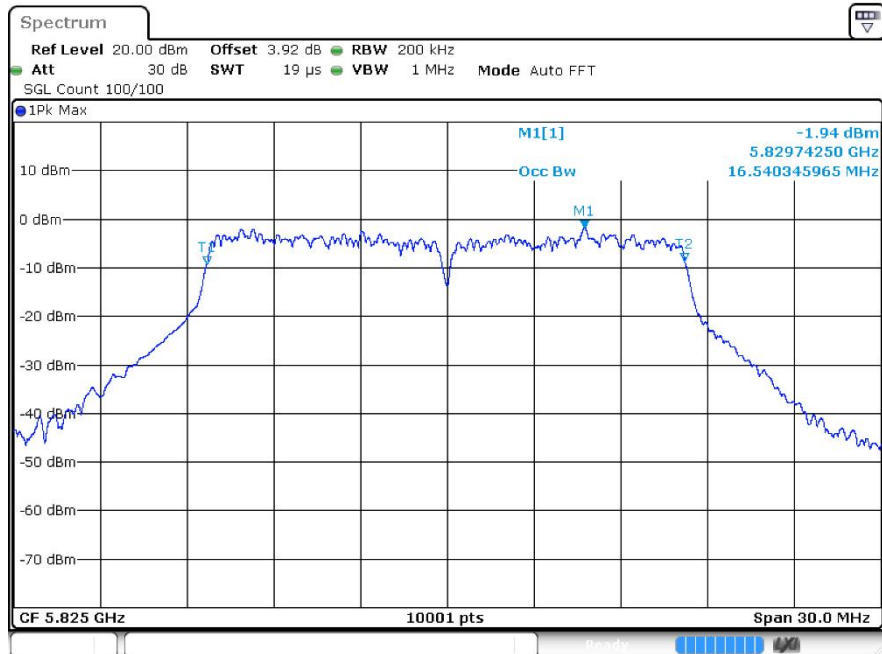
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5745	Ant1	16.459
a	5785	Ant1	16.702
a	5825	Ant1	16.54
n20	5745	Ant1	17.689
n20	5785	Ant1	17.725
n20	5825	Ant1	17.734
n40	5755	Ant1	36.392
n40	5795	Ant1	36.392
ac20	5745	Ant1	17.656
ac20	5785	Ant1	17.671
ac20	5825	Ant1	17.626
ac40	5755	Ant1	36.332
ac40	5795	Ant1	36.284
ac80	5775	Ant1	75.748

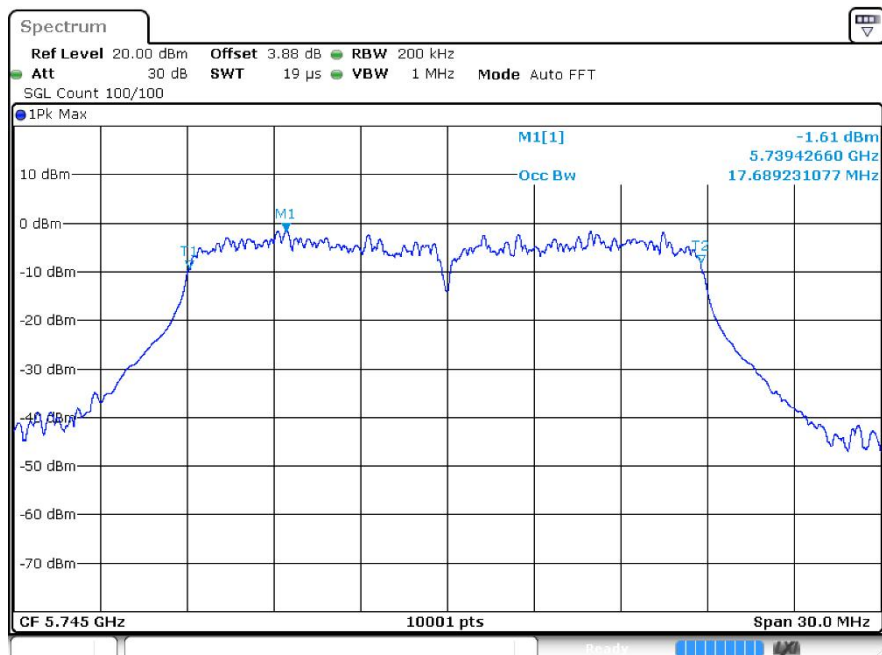
4.2 Test Graphs



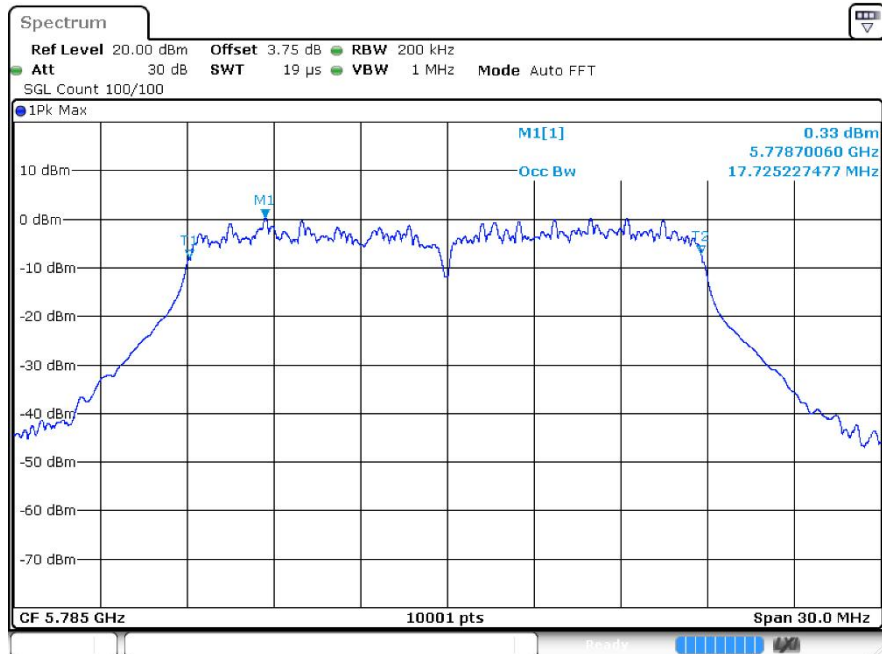
OBW a 5825MHz Ant1



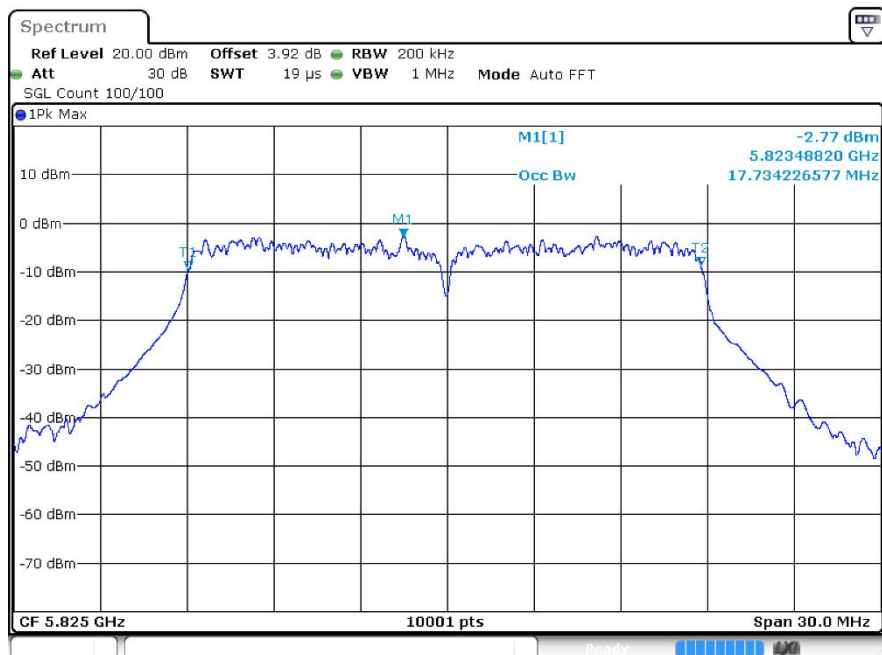
OBW n20 5745MHz Ant1



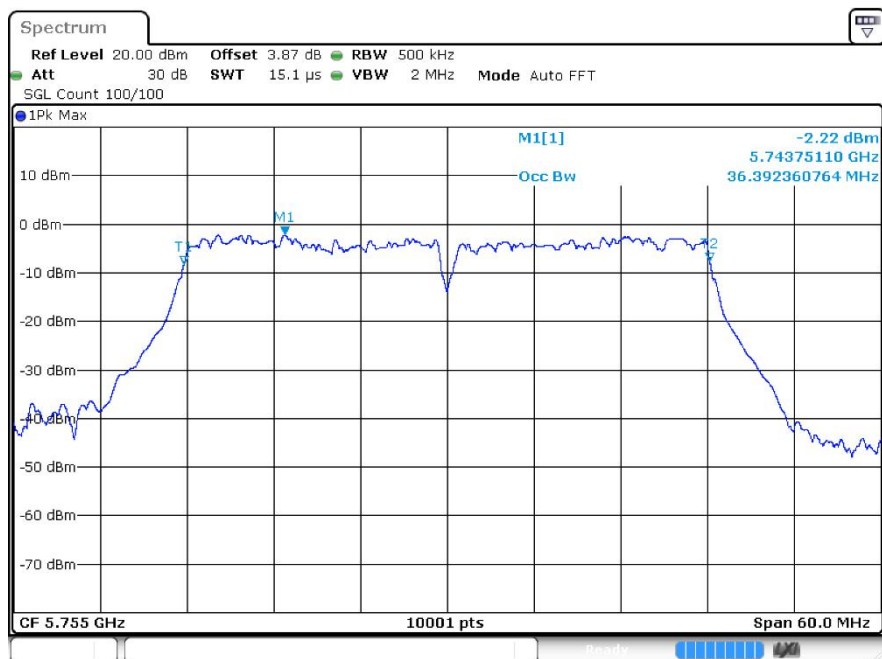
OBW n20 5785MHz Ant1



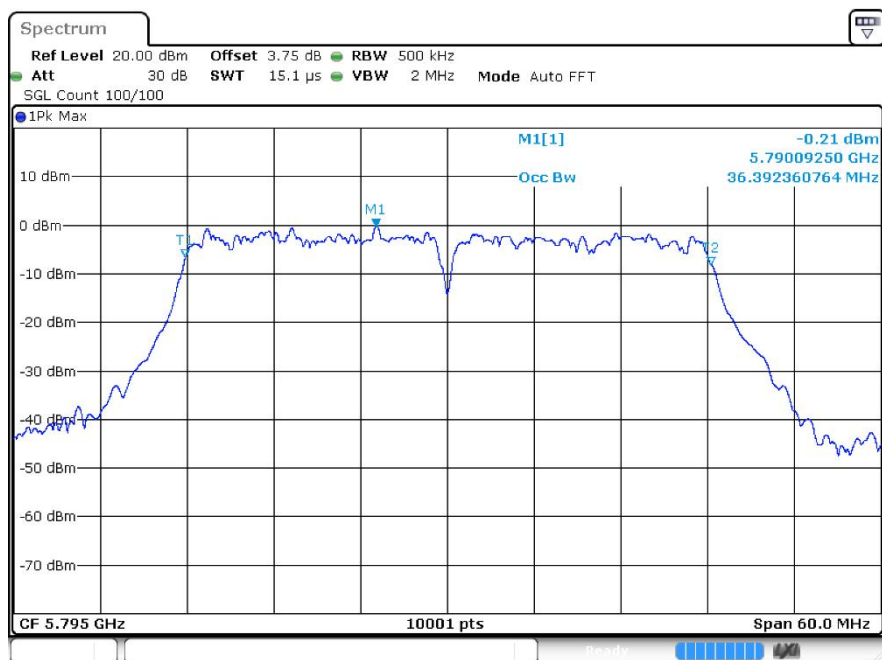
OBW n20 5825MHz Ant1



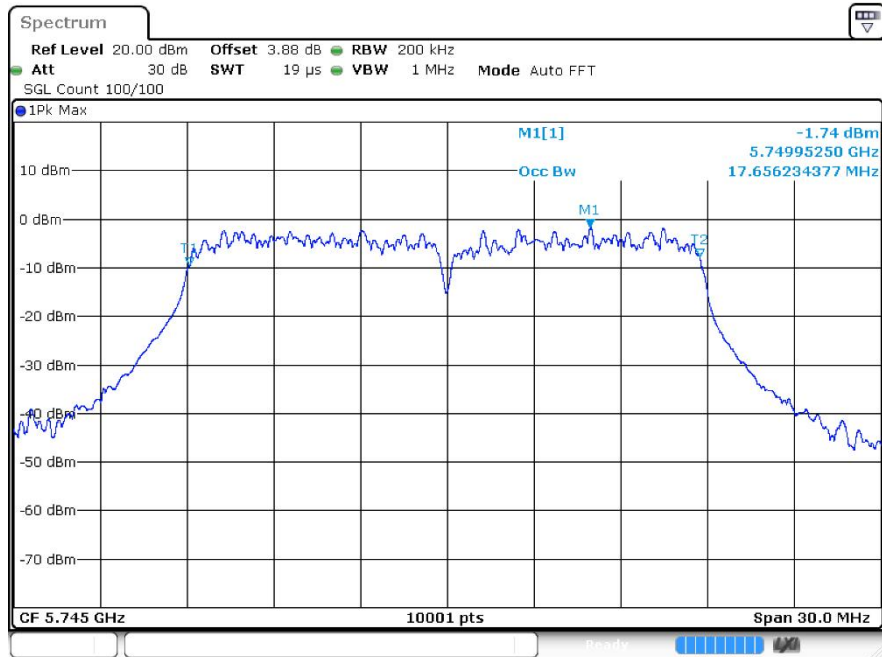
OBW n40 5755MHz Ant1



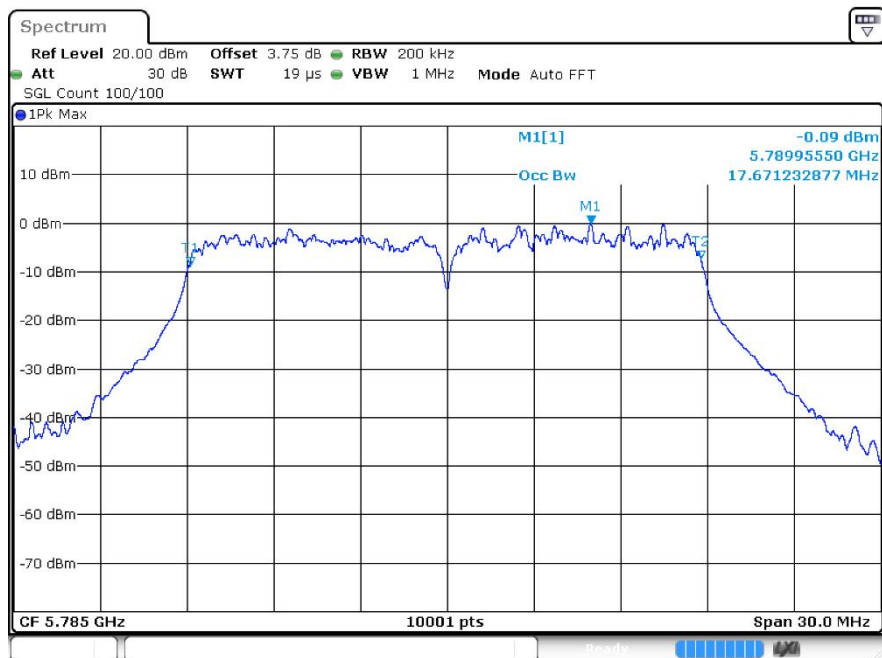
OBW n40 5795MHz Ant1



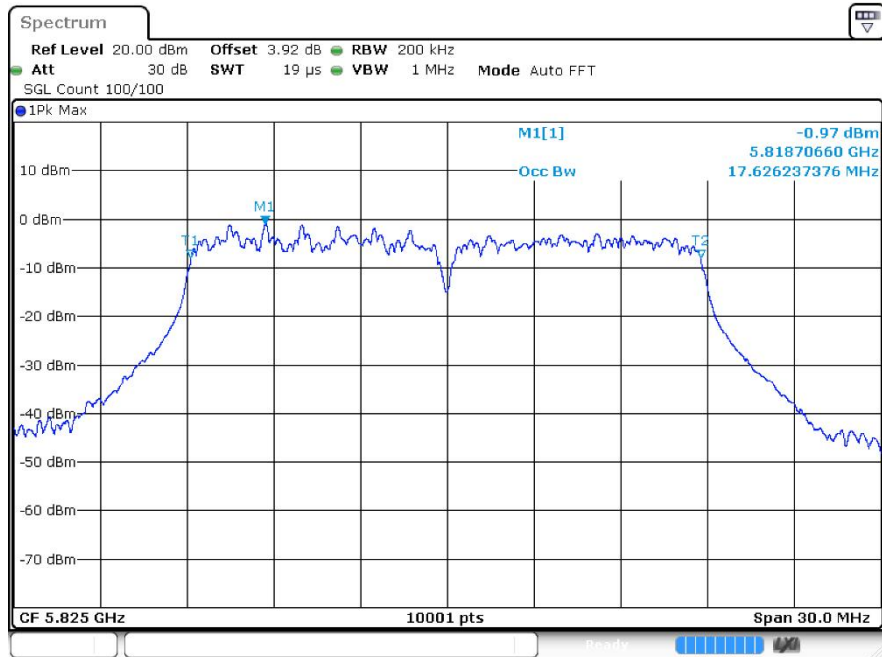
OBW ac20 5745MHz Ant1



OBW ac20 5785MHz Ant1



OBW ac20 5825MHz Ant1



OBW ac40 5755MHz Ant1

