



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Projector

Trade Mark: N/A

Test Model: P2

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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1 Duty Cycle

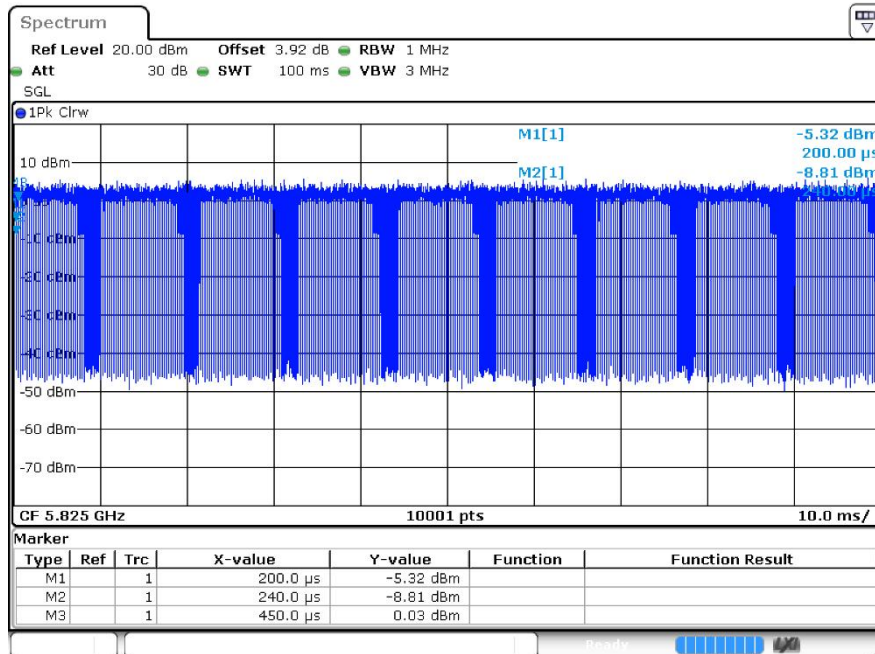
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	86.86	0.61	4.76
a	5785	Ant1	86.94	0.61	4.76
a	5825	Ant1	87.04	0.6	4.76
n20	5745	Ant1	87.54	0.58	4.35
n20	5785	Ant1	87.6	0.57	4.35
n20	5825	Ant1	87.62	0.57	4.35
n40	5755	Ant1	88.11	0.55	4
n40	5795	Ant1	88.11	0.55	4.17
ac20	5745	Ant1	87.22	0.59	4.55
ac20	5785	Ant1	87.24	0.59	4.55
ac20	5825	Ant1	87.18	0.6	4.55
ac40	5755	Ant1	86.97	0.61	4.35
ac40	5795	Ant1	87.19	0.6	4.55
ac80	5775	Ant1	87.39	0.59	4.35
ax20	5745	Ant1	87.26	0.59	4.17
ax20	5785	Ant1	87.31	0.59	4.17
ax20	5825	Ant1	87.38	0.59	4.17
ax40	5755	Ant1	87.5	0.58	4.35
ax40	5795	Ant1	87.55	0.58	4.35
ax80	5775	Ant1	87.9	0.56	4

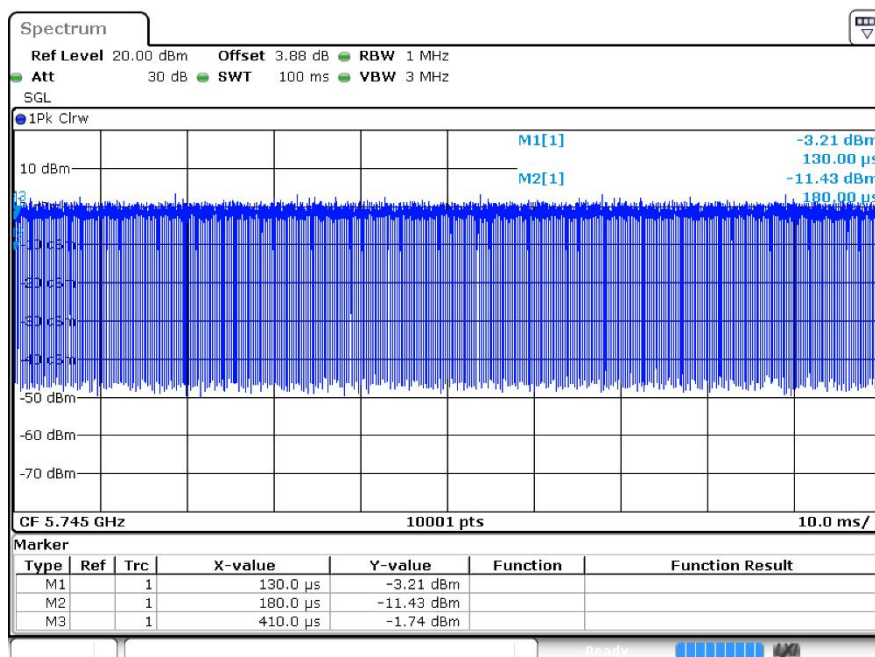
1.2 Test Graphs



Duty Cycle a 5825MHz Ant1



Duty Cycle n20 5745MHz Ant1



Duty Cycle n20 5785MHz Ant1

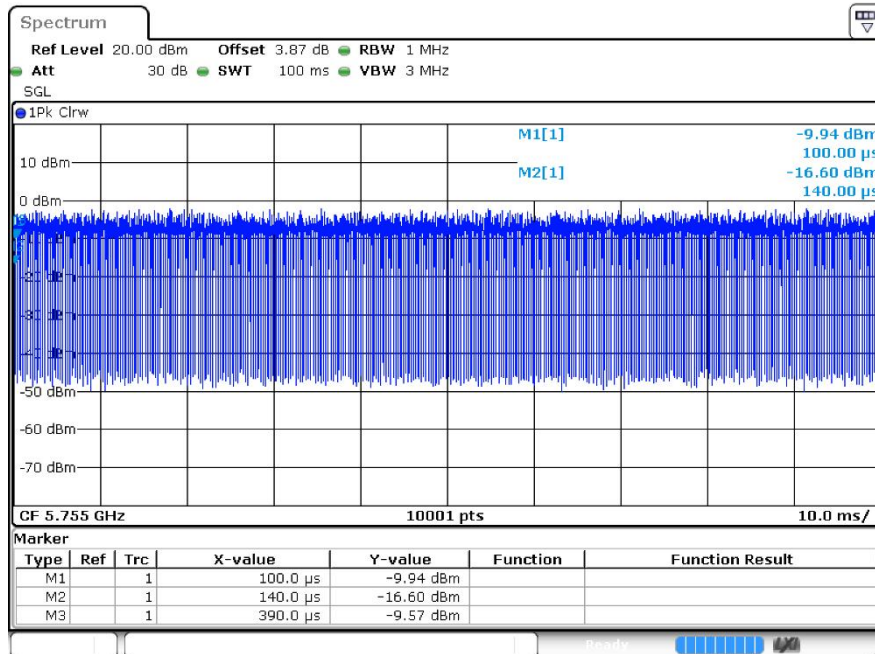


Duty Cycle n20 5825MHz Ant1

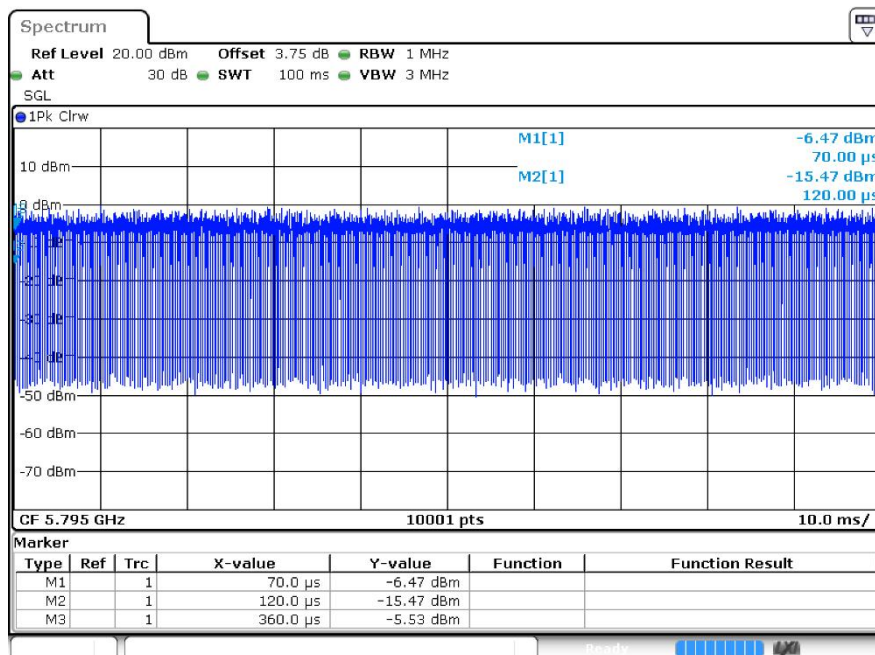




Duty Cycle n40 5755MHz Ant1



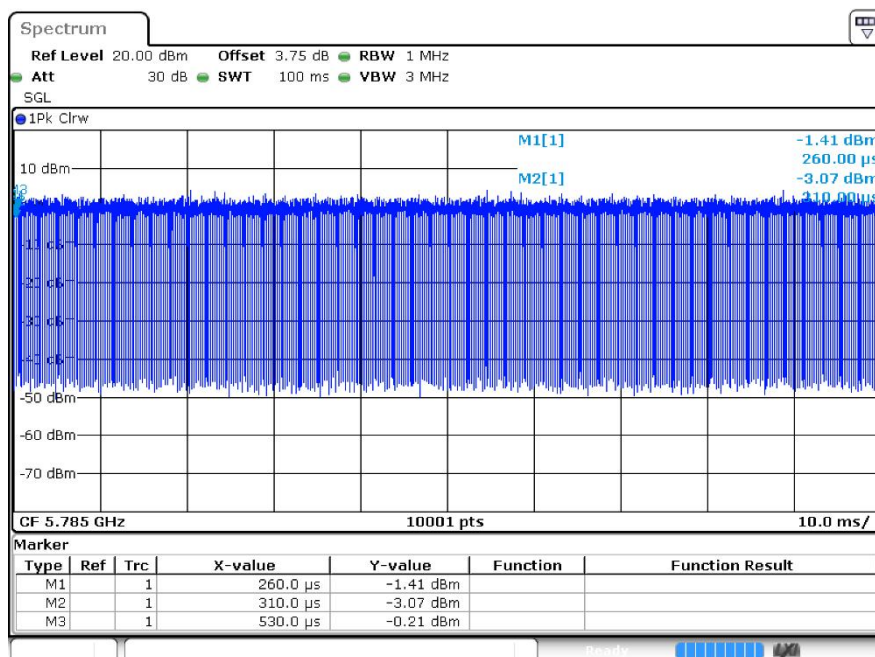
Duty Cycle n40 5795MHz Ant1



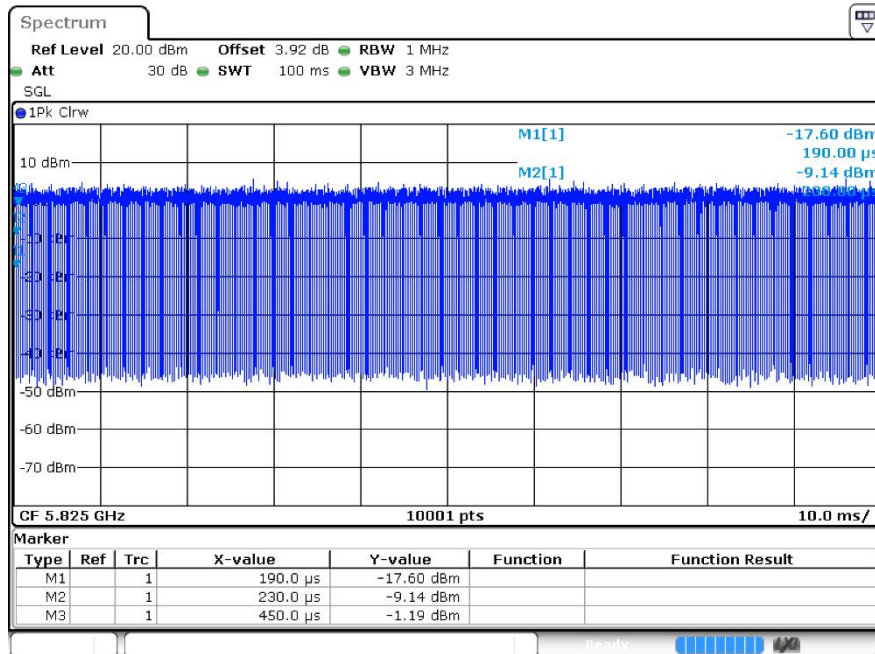
Duty Cycle ac20 5745MHz Ant1



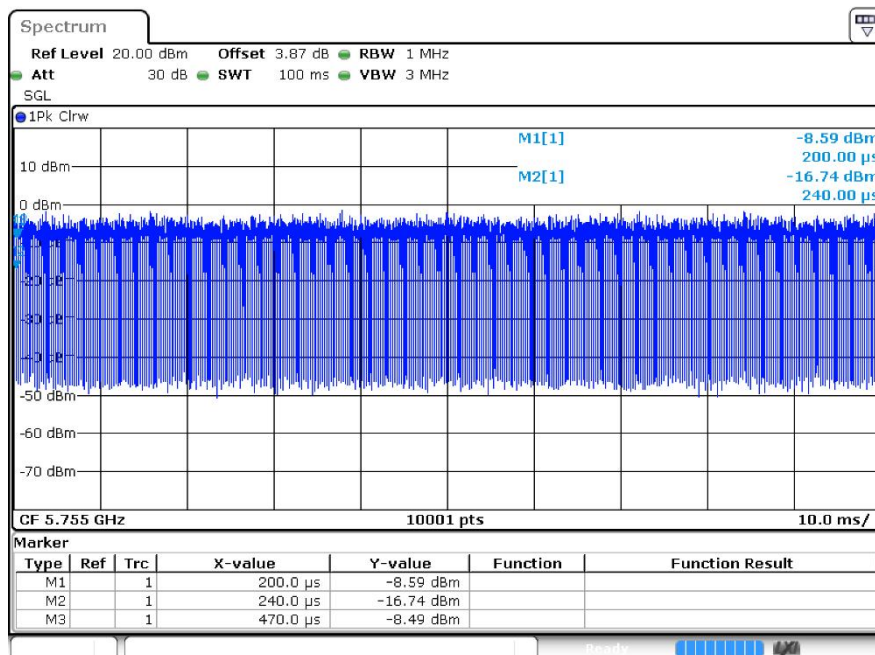
Duty Cycle ac20 5785MHz Ant1



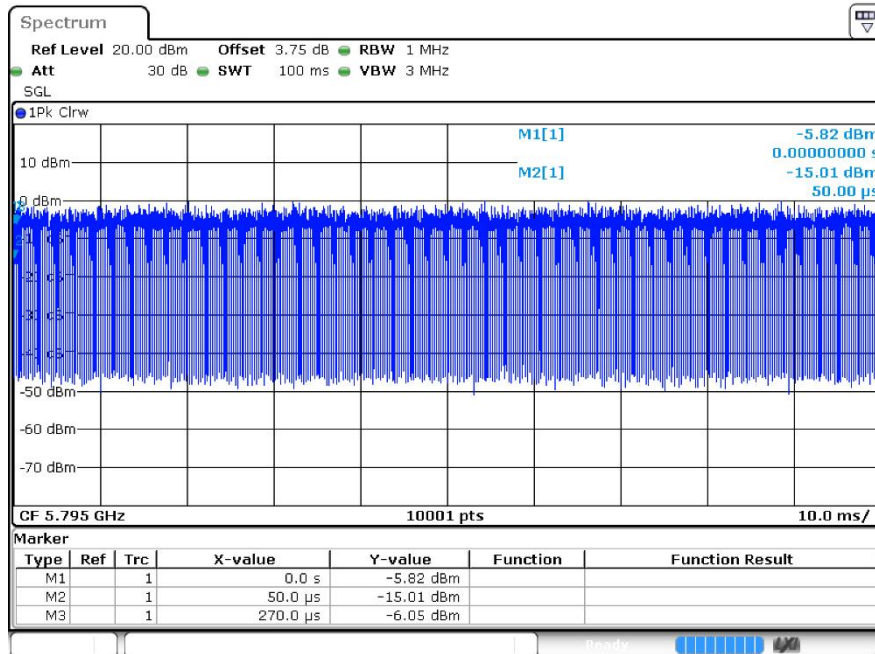
Duty Cycle ac20 5825MHz Ant1



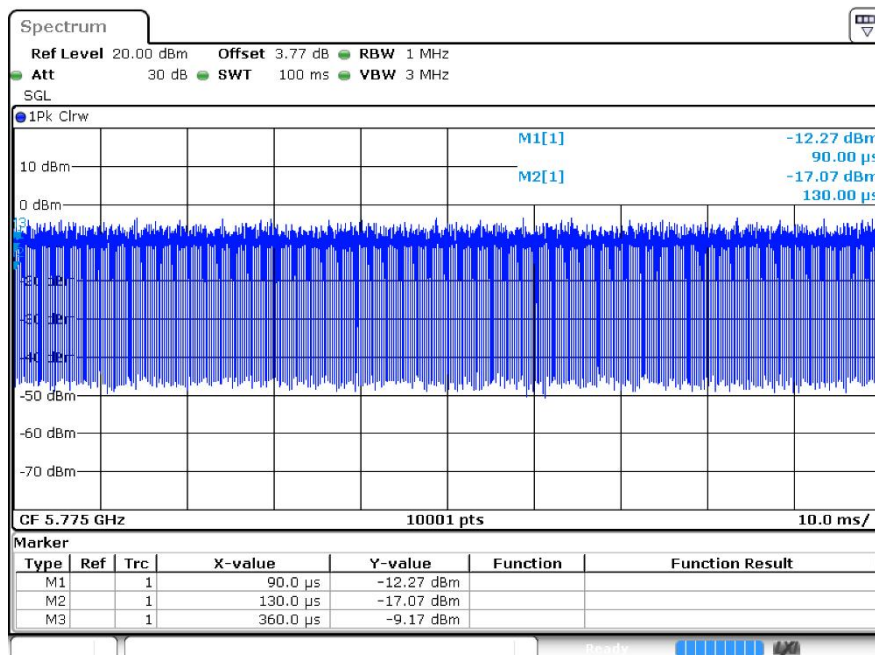
Duty Cycle ac40 5755MHz Ant1



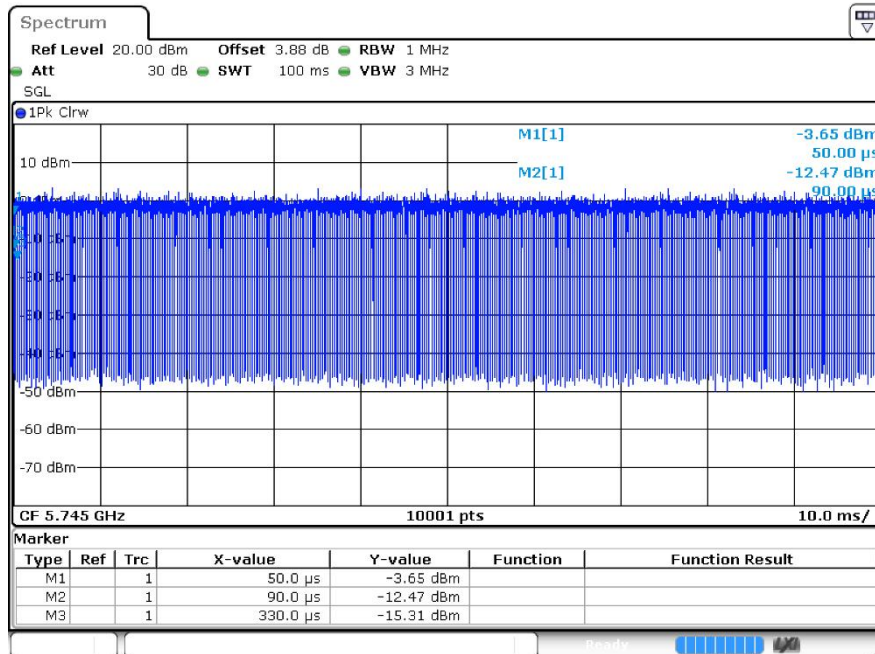
Duty Cycle ac40 5795MHz Ant1



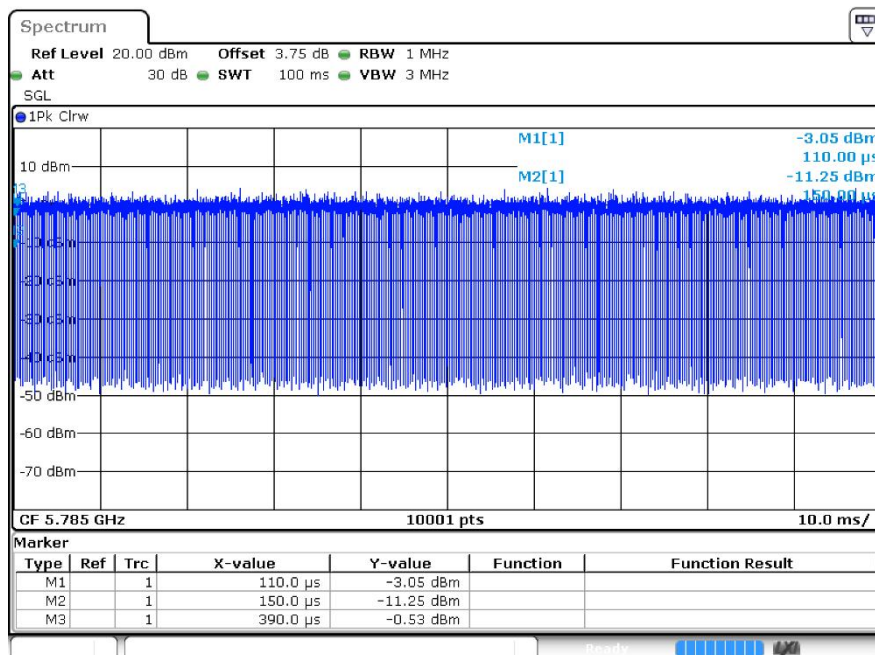
Duty Cycle ac80 5775MHz Ant1



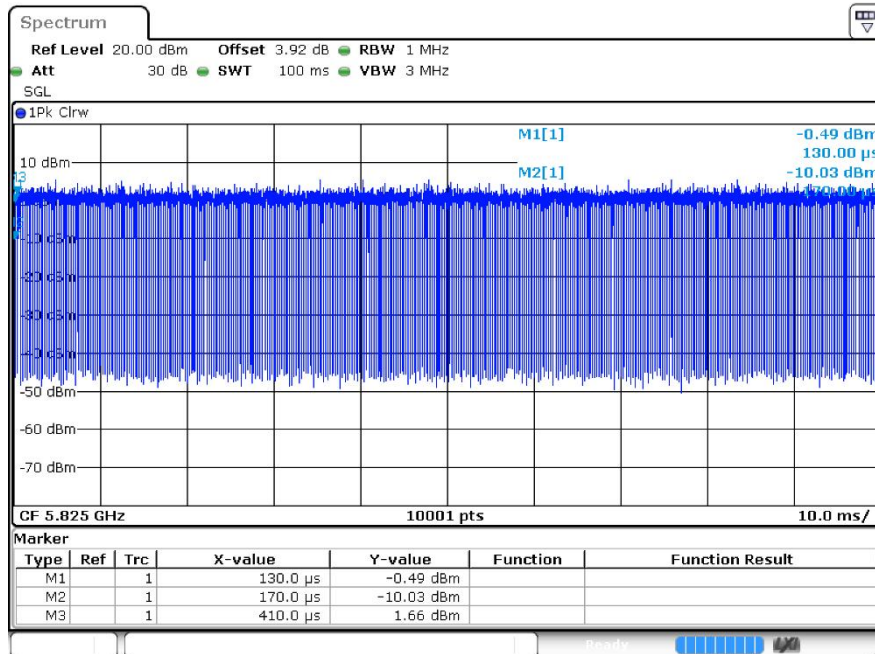
Duty Cycle ax20 5745MHz Ant1



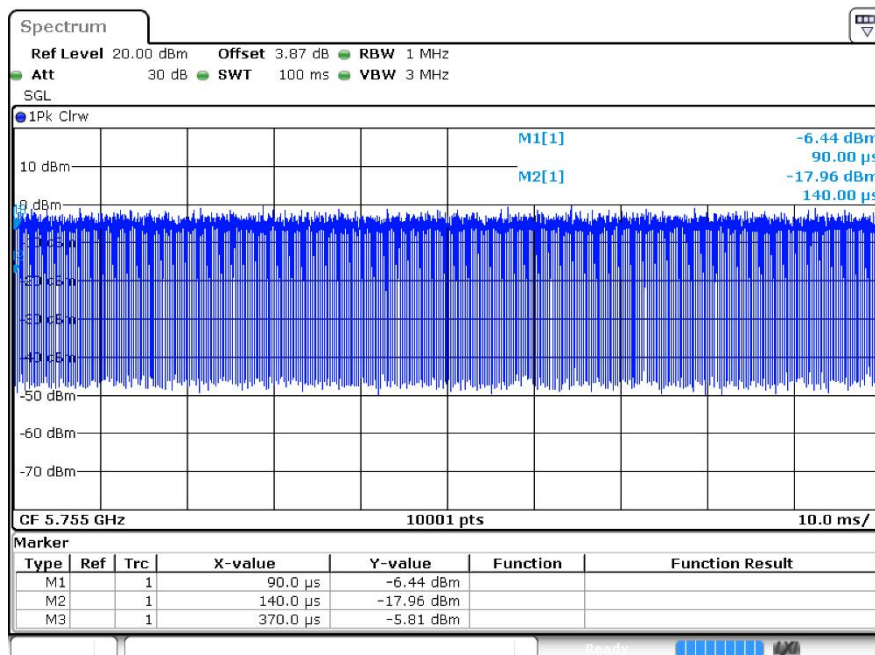
Duty Cycle ax20 5785MHz Ant1



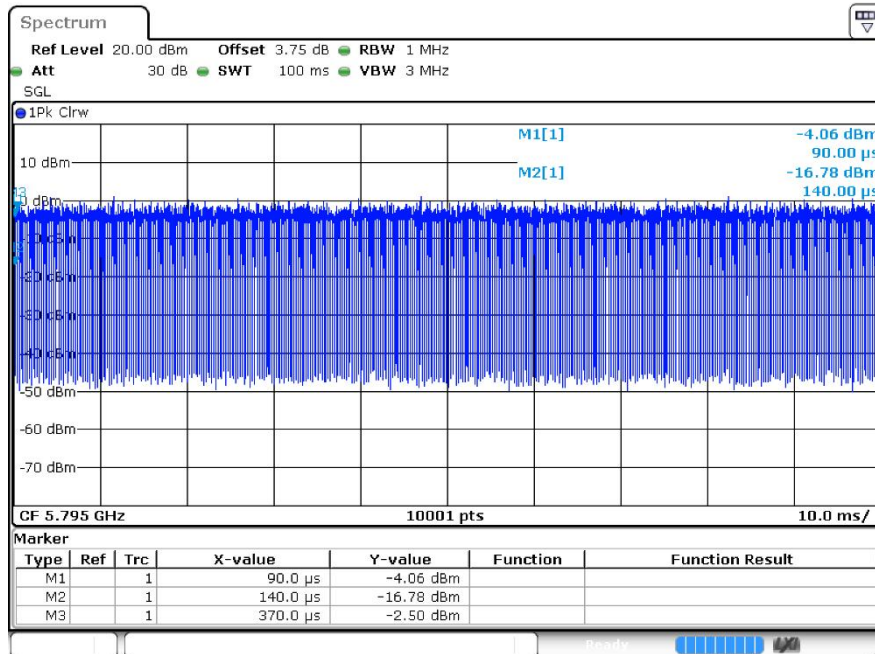
Duty Cycle ax20 5825MHz Ant1



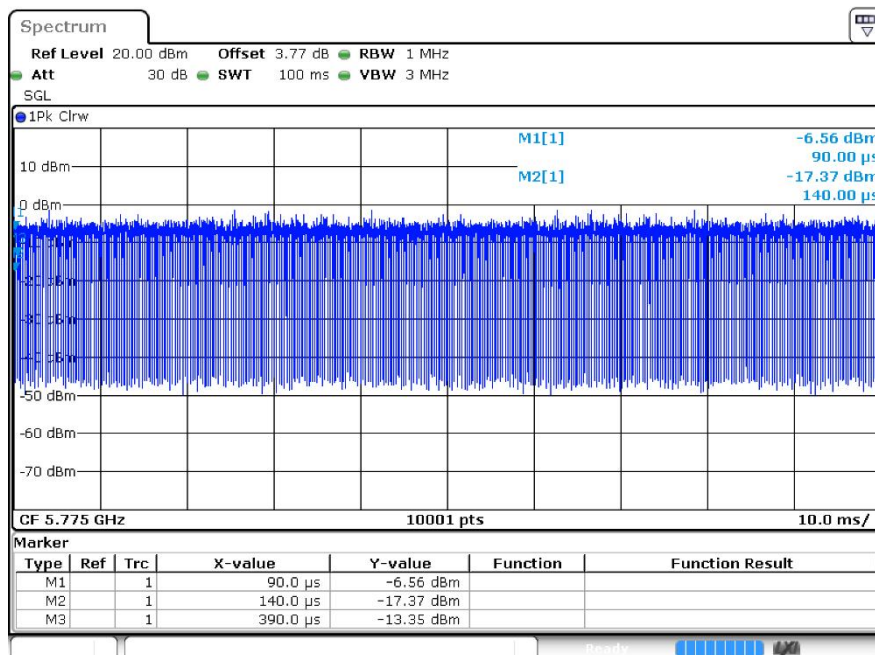
Duty Cycle ax40 5755MHz Ant1



Duty Cycle ax40 5795MHz Ant1



Duty Cycle ax80 5775MHz Ant1



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	9.83	30	Pass
a	5785	Ant1	10.73	30	Pass
a	5825	Ant1	12.07	30	Pass
n20	5745	Ant1	9.19	30	Pass
n20	5785	Ant1	10.22	30	Pass
n20	5825	Ant1	11.51	30	Pass
n40	5755	Ant1	10.47	30	Pass
n40	5795	Ant1	11.77	30	Pass
ac20	5745	Ant1	9.3	30	Pass
ac20	5785	Ant1	10.21	30	Pass
ac20	5825	Ant1	11.48	30	Pass
ac40	5755	Ant1	10.44	30	Pass
ac40	5795	Ant1	11.74	30	Pass
ac80	5775	Ant1	11.32	30	Pass
ax20	5745	Ant1	9.5	30	Pass
ax20	5785	Ant1	10.47	30	Pass
ax20	5825	Ant1	11.65	30	Pass
ax40	5755	Ant1	10.14	30	Pass
ax40	5795	Ant1	11.41	30	Pass
ax80	5775	Ant1	11.41	30	Pass

Note:

The duty factor has been compensated into the result.

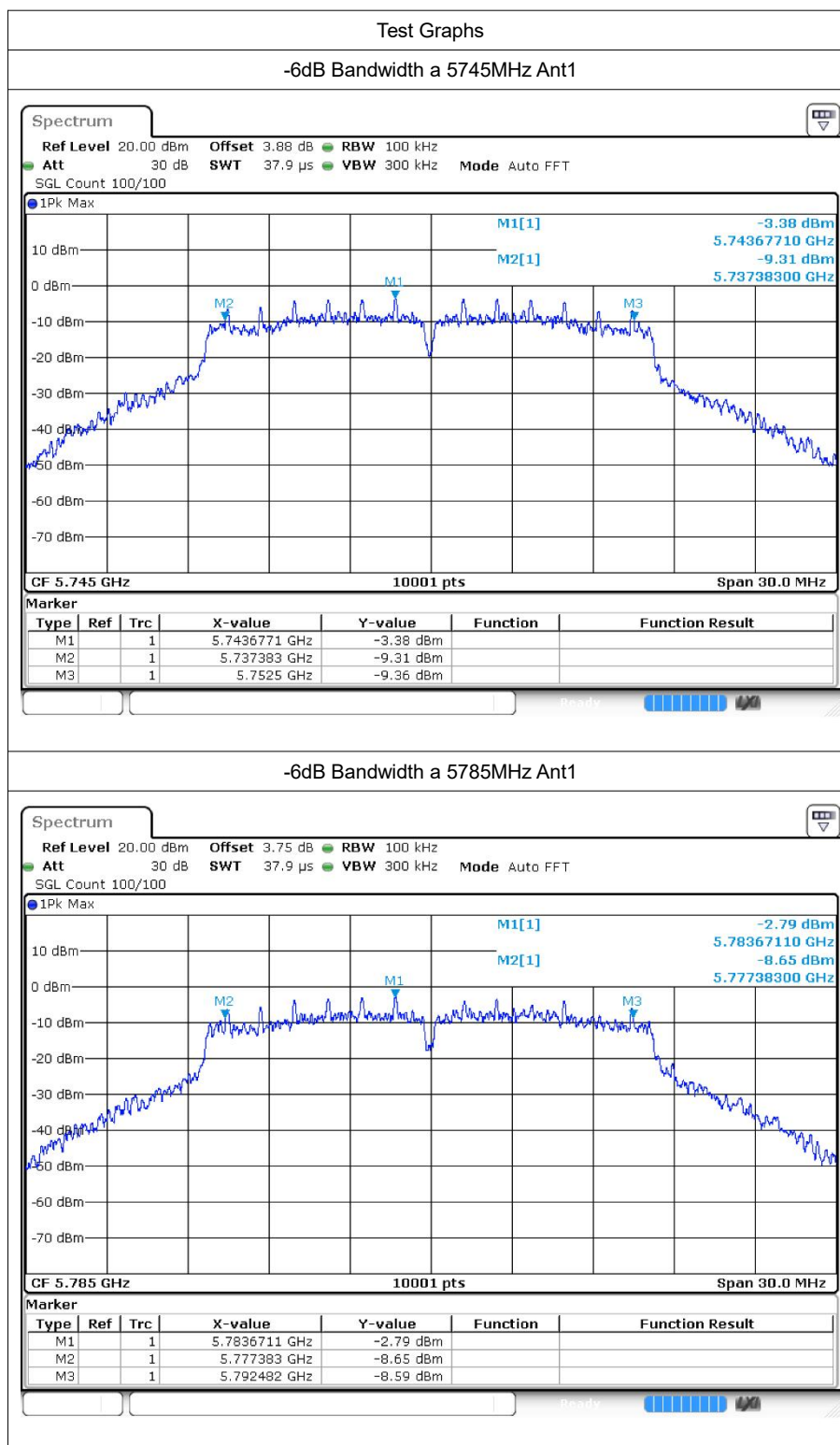


3 -6dB Bandwidth

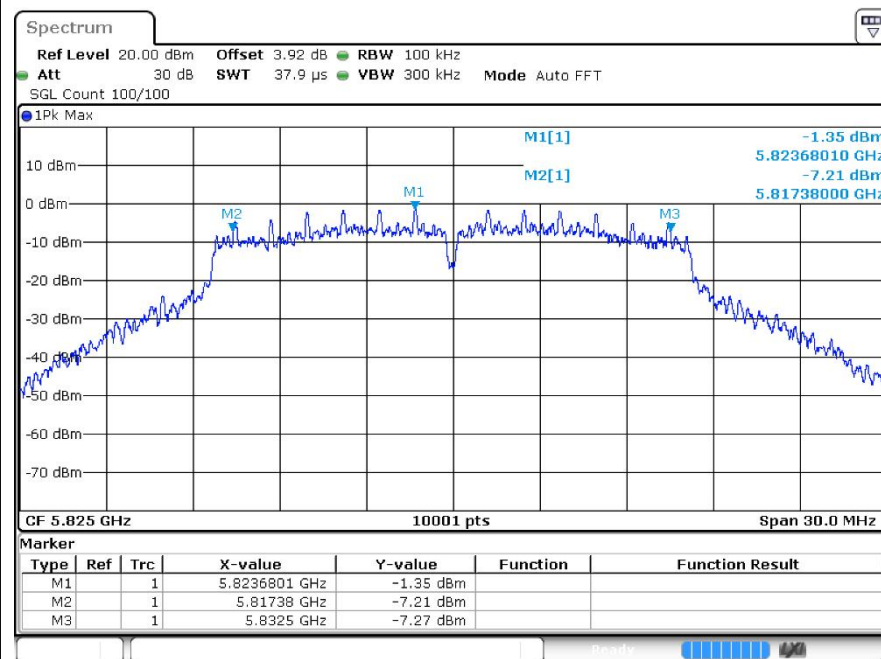
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	15.117	0.5	Pass
a	5785	Ant1	15.099	0.5	Pass
a	5825	Ant1	15.12	0.5	Pass
n20	5745	Ant1	15.099	0.5	Pass
n20	5785	Ant1	15.108	0.5	Pass
n20	5825	Ant1	15.651	0.5	Pass
n40	5755	Ant1	35.076	0.5	Pass
n40	5795	Ant1	33.852	0.5	Pass
ac20	5745	Ant1	15.117	0.5	Pass
ac20	5785	Ant1	15.108	0.5	Pass
ac20	5825	Ant1	15.096	0.5	Pass
ac40	5755	Ant1	35.094	0.5	Pass
ac40	5795	Ant1	35.076	0.5	Pass
ac80	5775	Ant1	66.276	0.5	Pass
ax20	5745	Ant1	15.087	0.5	Pass
ax20	5785	Ant1	15.147	0.5	Pass
ax20	5825	Ant1	17.205	0.5	Pass
ax40	5755	Ant1	35.478	0.5	Pass
ax40	5795	Ant1	35.076	0.5	Pass
ax80	5775	Ant1	72.564	0.5	Pass

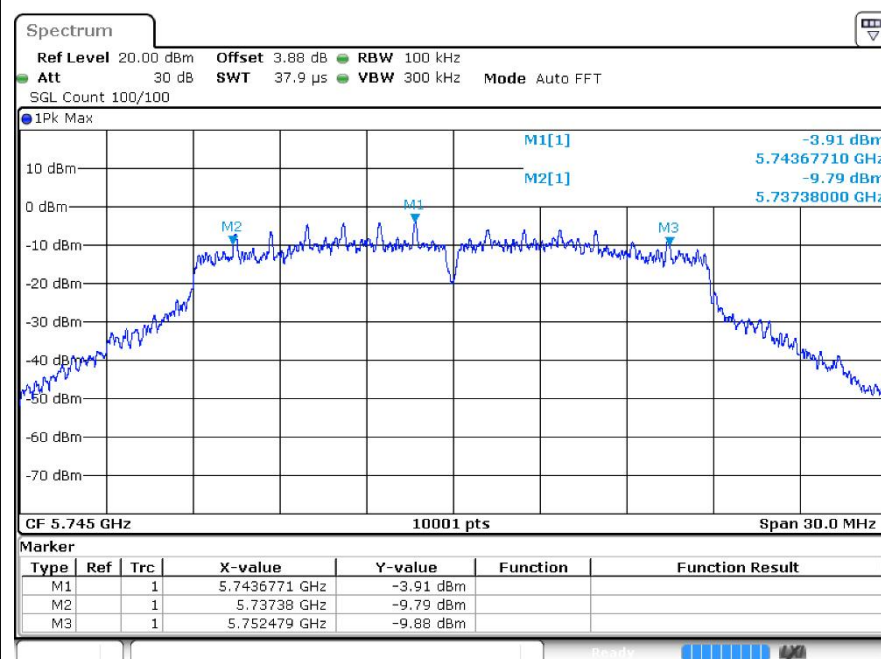
3.2 Test Graphs



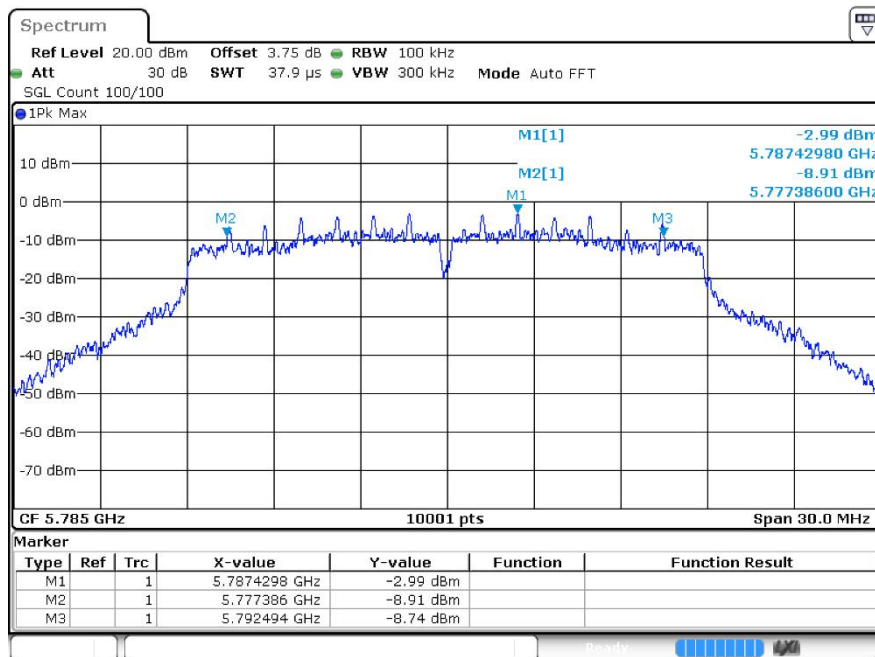
-6dB Bandwidth a 5825MHz Ant1



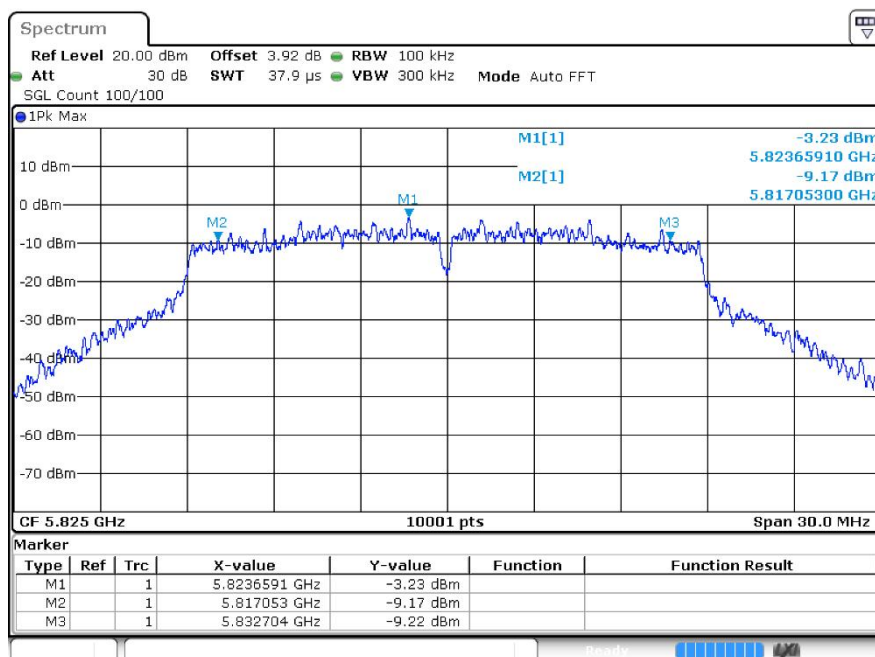
-6dB Bandwidth n20 5745MHz Ant1



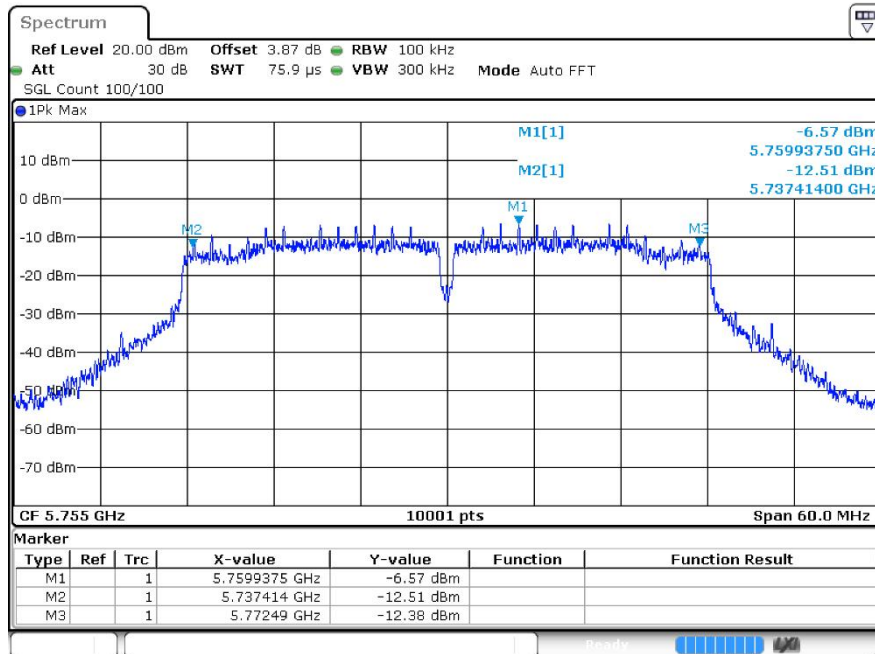
-6dB Bandwidth n20 5785MHz Ant1



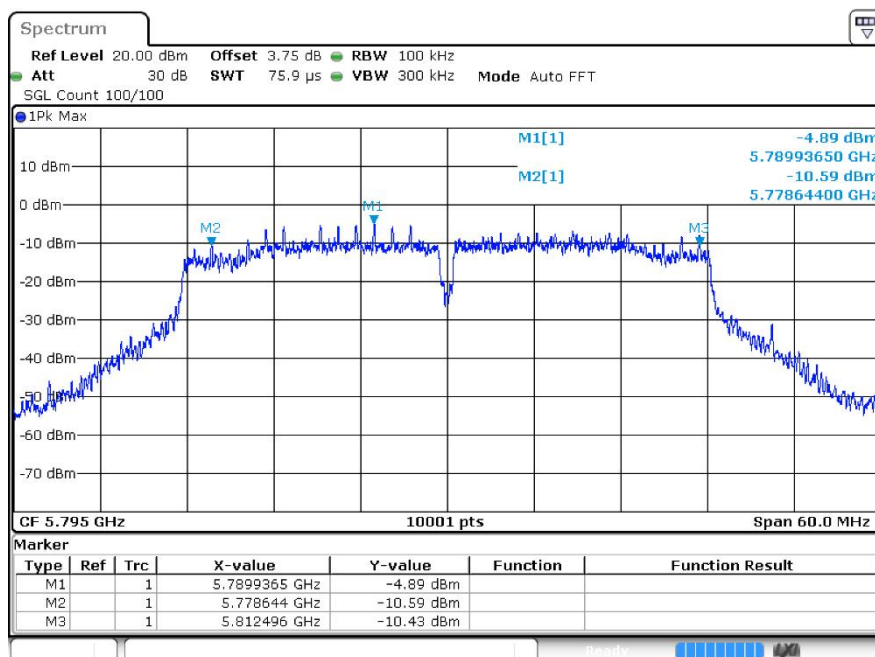
-6dB Bandwidth n20 5825MHz Ant1



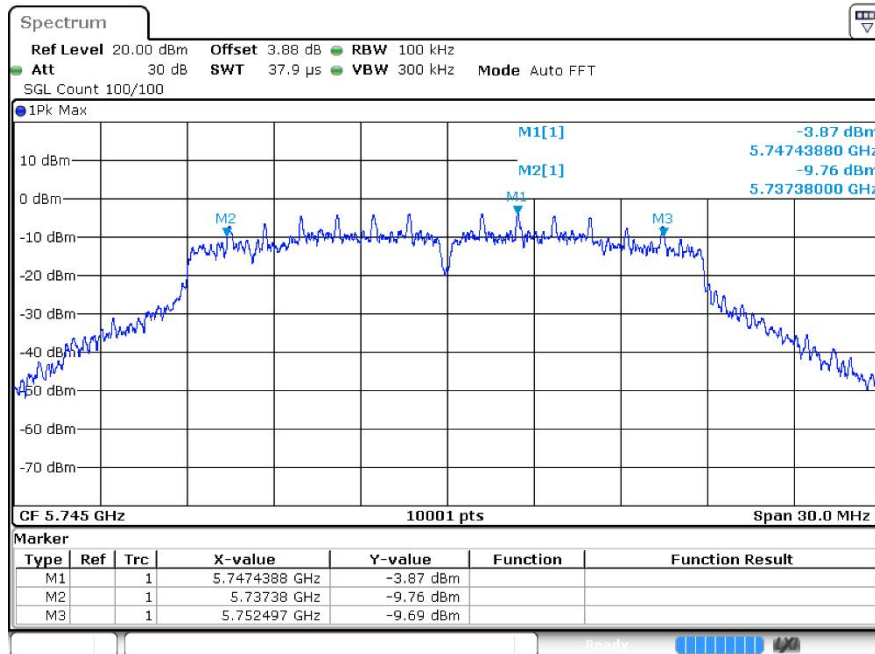
-6dB Bandwidth n40 5755MHz Ant1



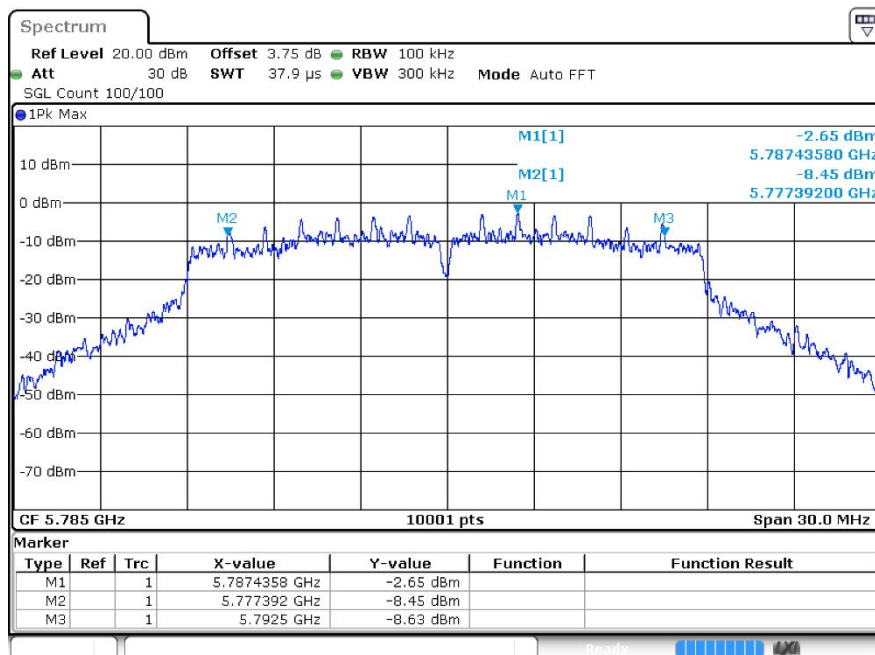
-6dB Bandwidth n40 5795MHz Ant1



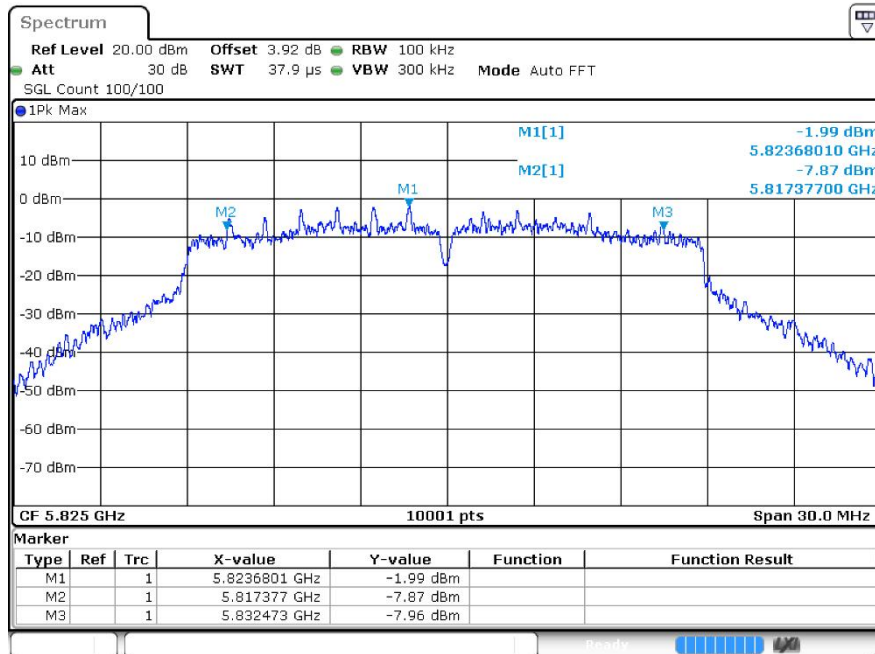
-6dB Bandwidth ac20 5745MHz Ant1



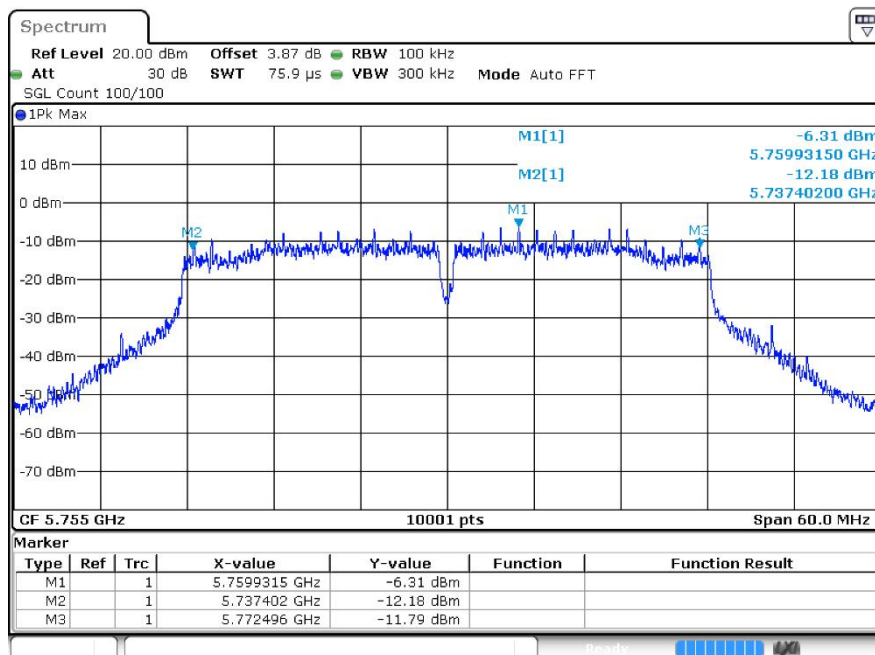
-6dB Bandwidth ac20 5785MHz Ant1



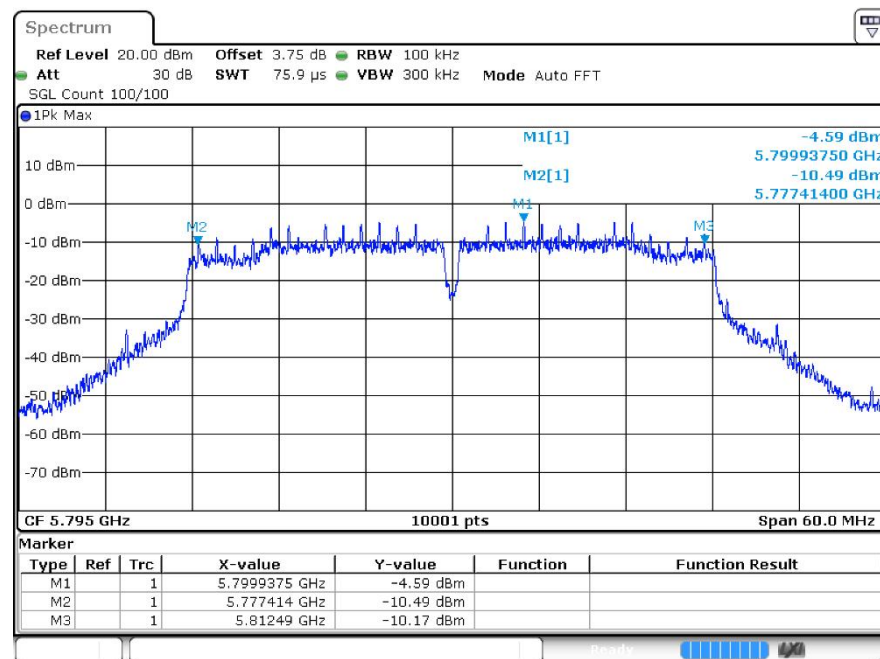
-6dB Bandwidth ac20 5825MHz Ant1



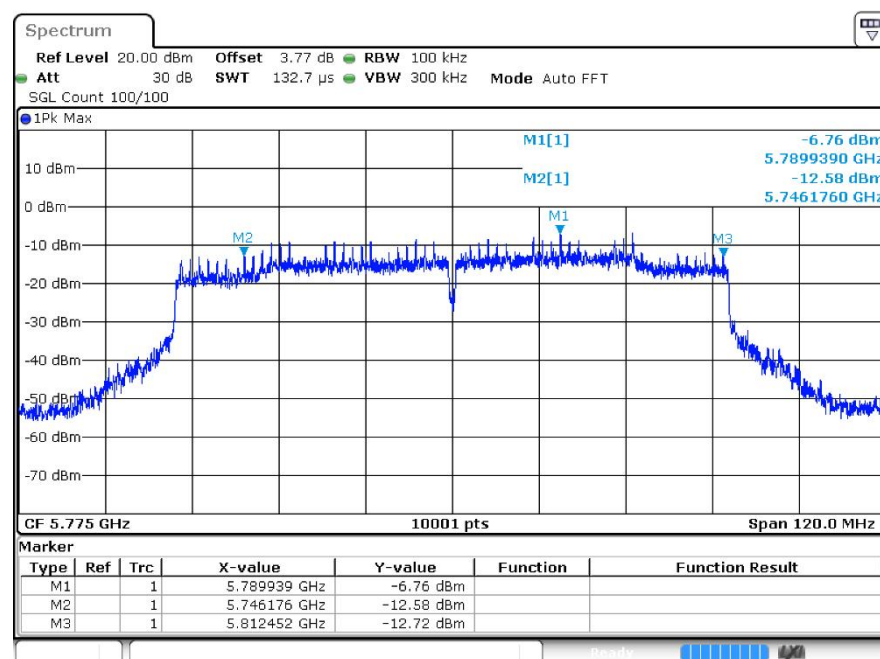
-6dB Bandwidth ac40 5755MHz Ant1



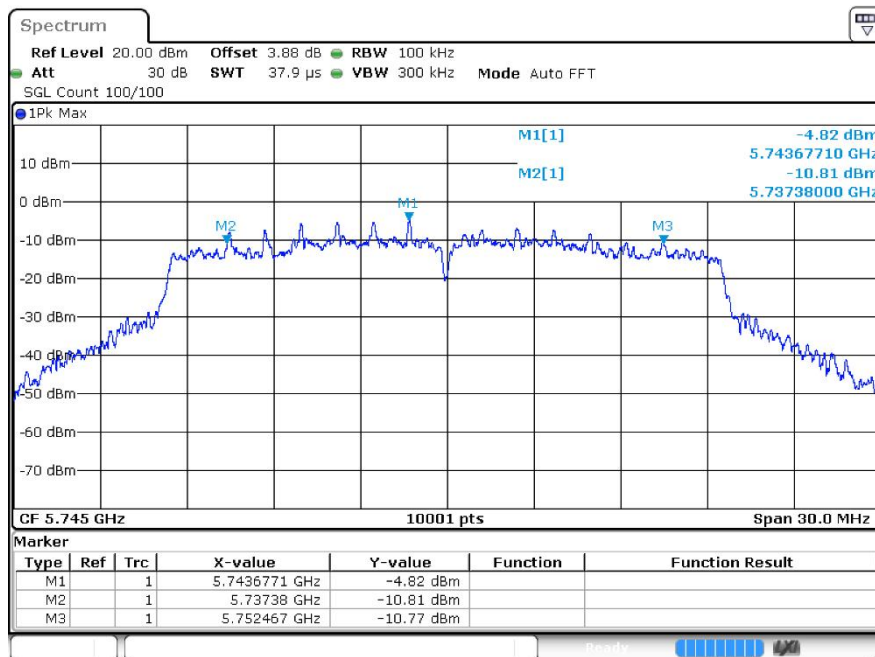
-6dB Bandwidth ac40 5795MHz Ant1



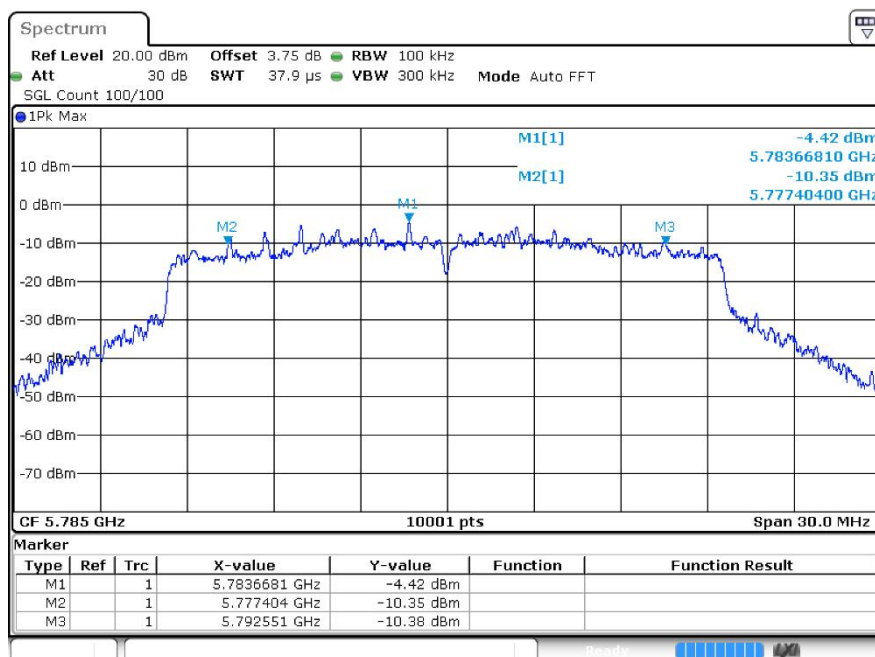
-6dB Bandwidth ac80 5775MHz Ant1



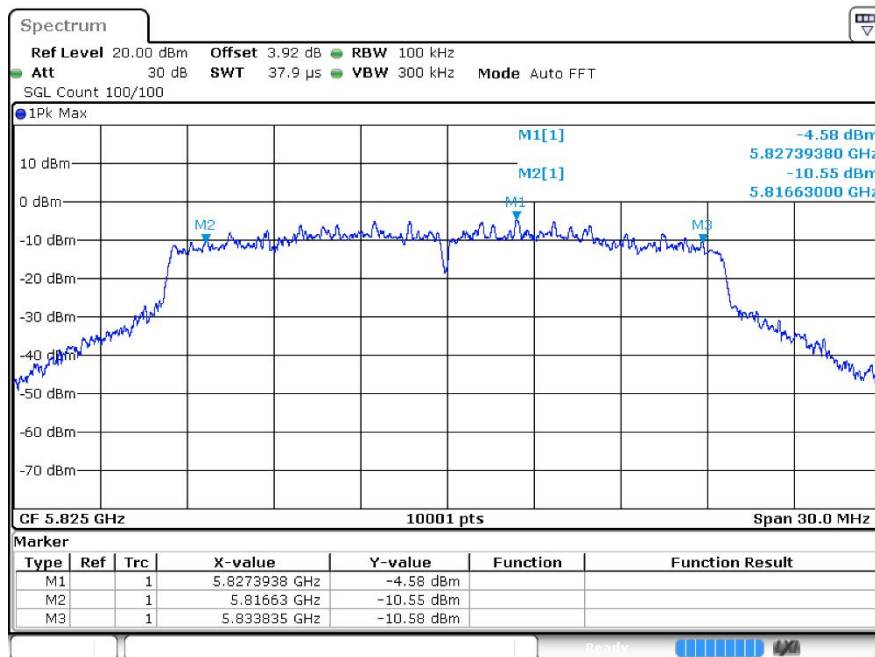
-6dB Bandwidth ax20 5745MHz Ant1



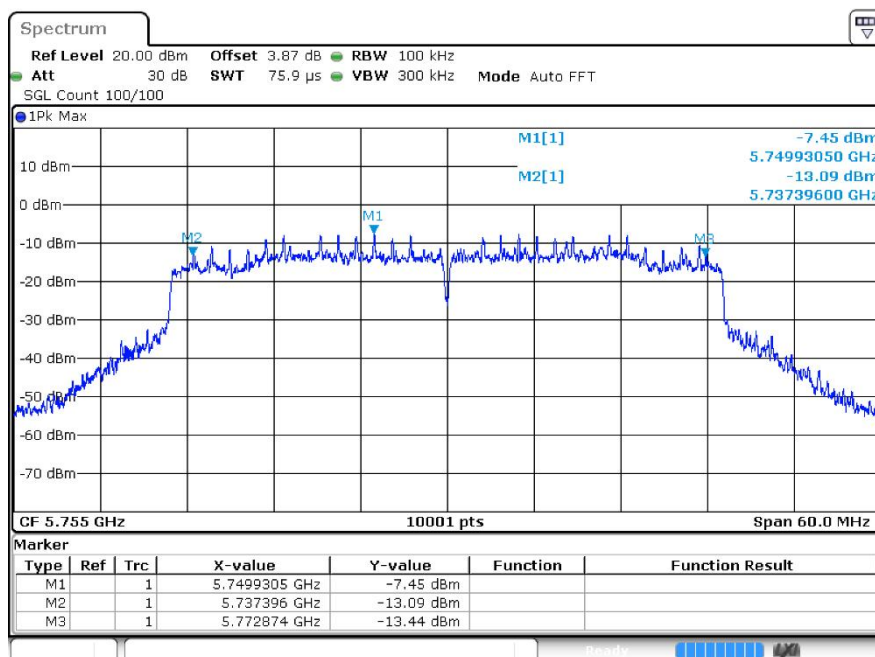
-6dB Bandwidth ax20 5785MHz Ant1



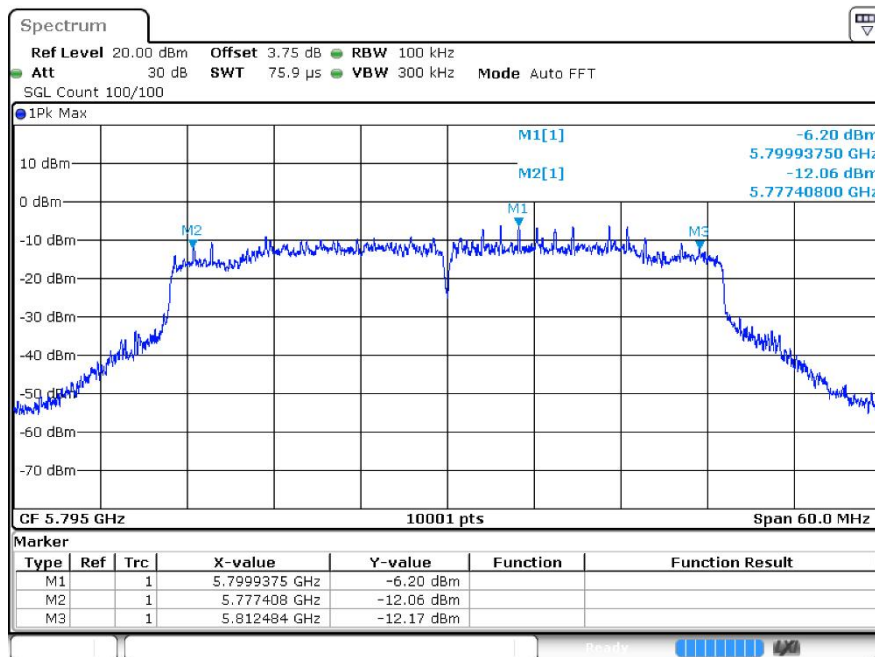
-6dB Bandwidth ax20 5825MHz Ant1



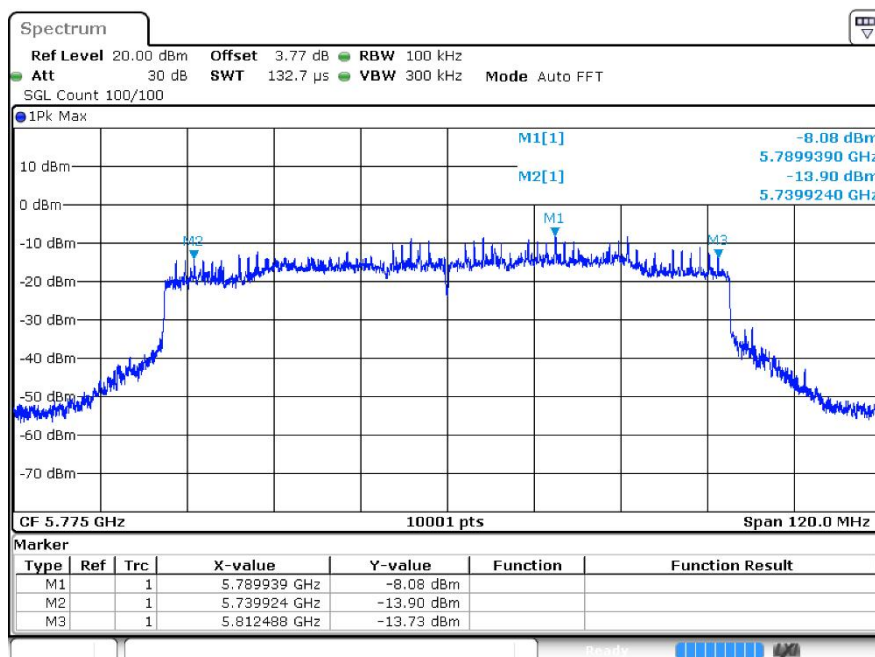
-6dB Bandwidth ax40 5755MHz Ant1



-6dB Bandwidth ax40 5795MHz Ant1



-6dB Bandwidth ax80 5775MHz Ant1





4 Occupied Channel Bandwidth

4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5745	Ant1	16.387
a	5785	Ant1	16.387
a	5825	Ant1	16.42
n20	5745	Ant1	17.542
n20	5785	Ant1	17.617
n20	5825	Ant1	17.551
n40	5755	Ant1	36.068
n40	5795	Ant1	36.026
ac20	5745	Ant1	17.635
ac20	5785	Ant1	17.554
ac20	5825	Ant1	17.635
ac40	5755	Ant1	36.158
ac40	5795	Ant1	36.014
ac80	5775	Ant1	75.1
ax20	5745	Ant1	18.844
ax20	5785	Ant1	18.814
ax20	5825	Ant1	18.865
ax40	5755	Ant1	37.712
ax40	5795	Ant1	37.382
ax80	5775	Ant1	76.576