



Appendix D

RF Test Data for B1-B3WIFI(Conducted Measurement)

Product Name: IP camera

Trade Mark: N/A

Test Model: IK-I108

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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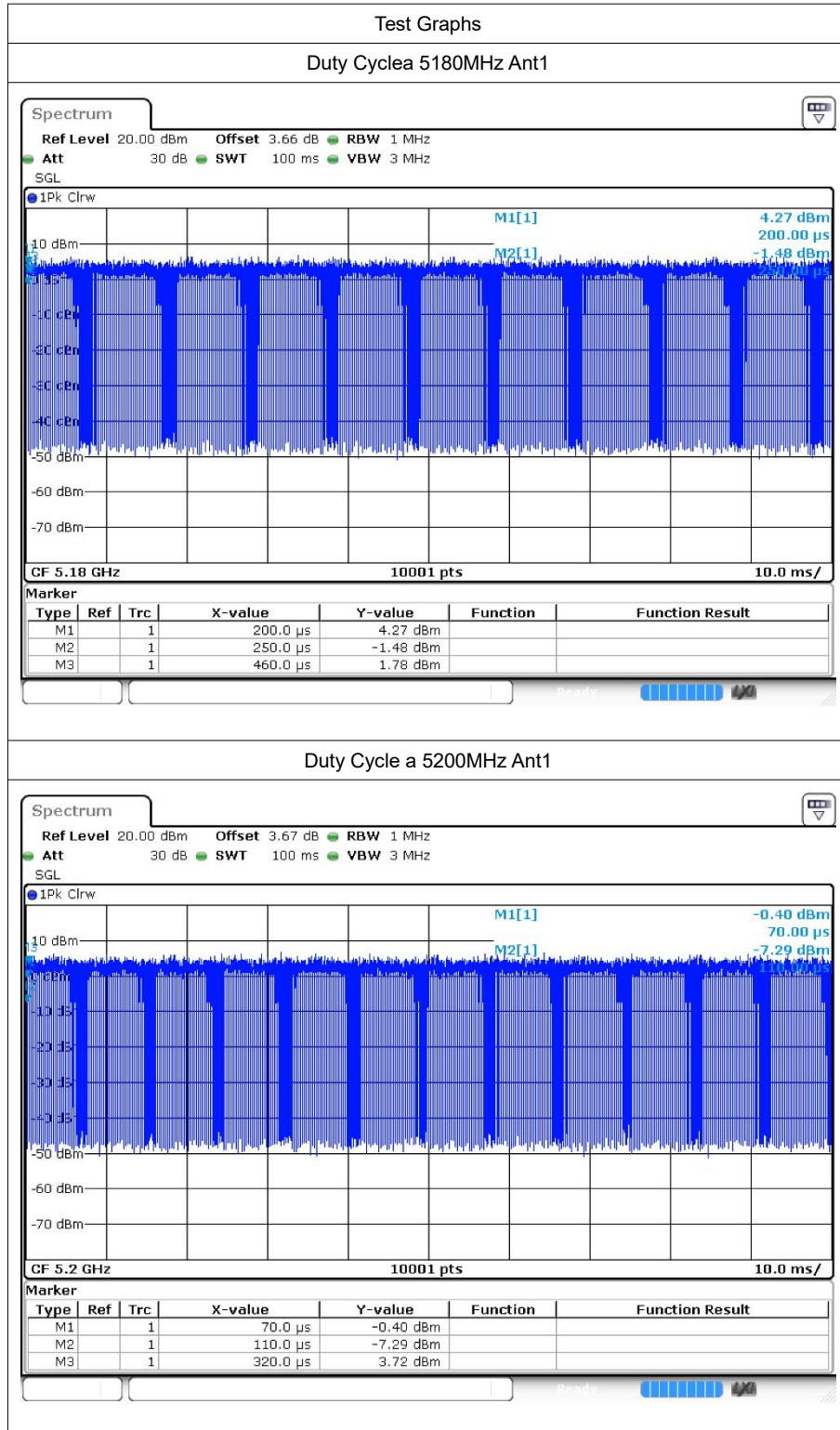


1 Duty Cycle

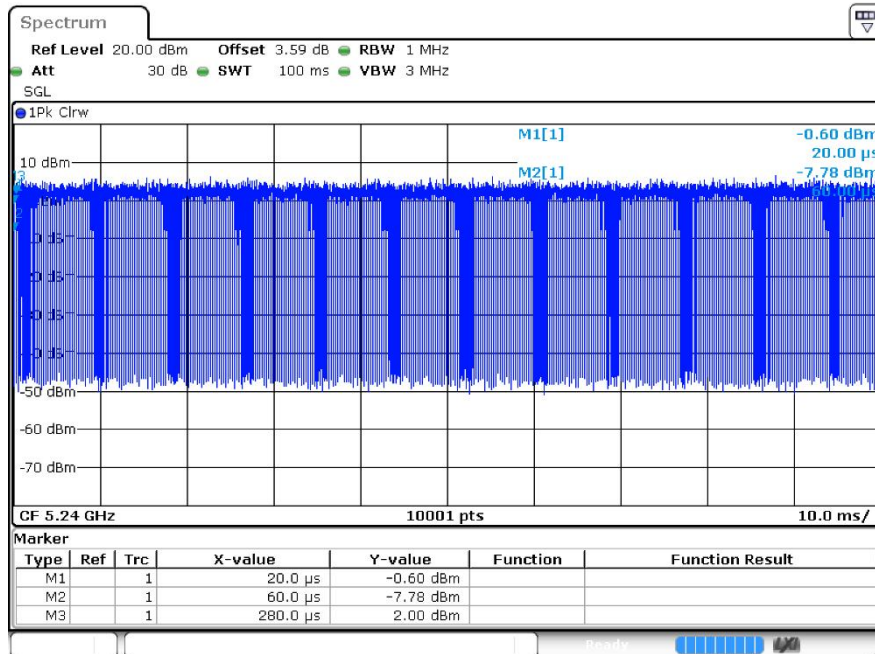
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	86.84	0.61	4.76
a	5200	Ant1	86.64	0.62	4.76
a	5240	Ant1	86.66	0.62	4.55
n20	5180	Ant1	87.62	0.57	4.17
n20	5200	Ant1	87.61	0.57	4.17
n20	5240	Ant1	87.65	0.57	4.17
n40	5190	Ant1	88.14	0.55	4
n40	5230	Ant1	88.11	0.55	4.17
ac20	5180	Ant1	87.26	0.59	4.55
ac20	5200	Ant1	87.38	0.59	4.35
ac20	5240	Ant1	87.31	0.59	4.55
ac40	5190	Ant1	87.06	0.6	4.35
ac40	5230	Ant1	87.23	0.59	4.55
ac80	5210	Ant1	87.36	0.59	4.35

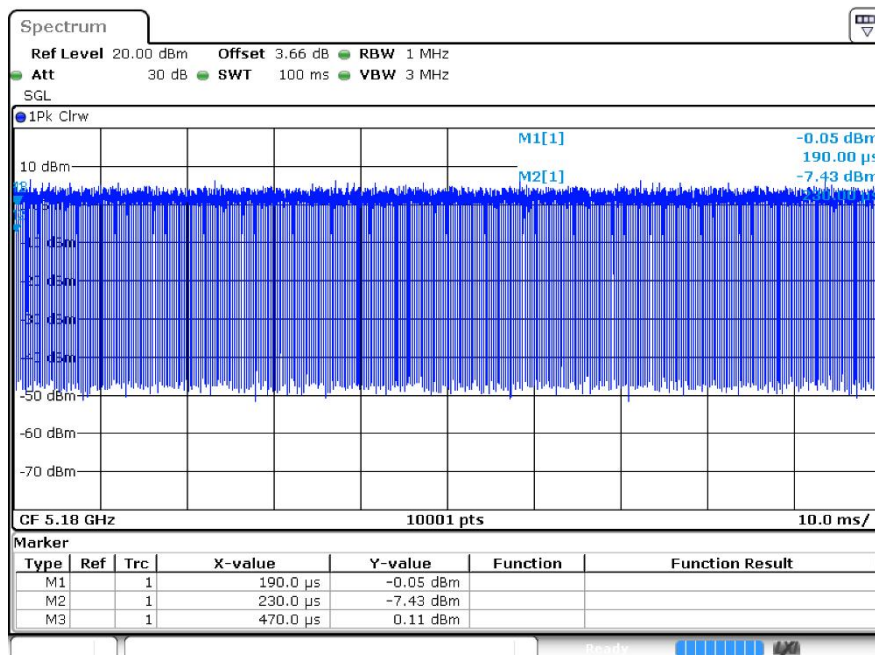
1.2 Test Graphs



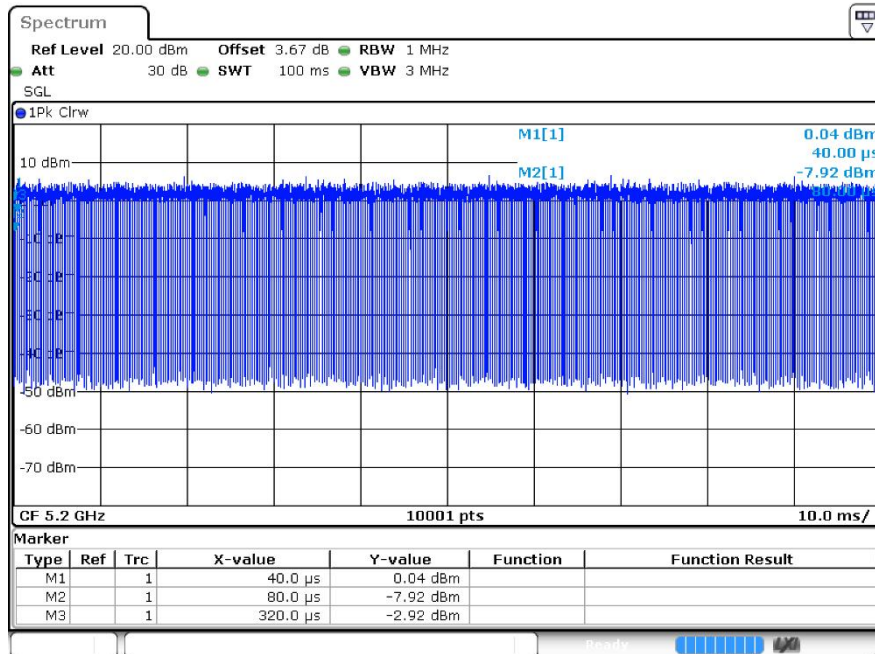
Duty Cyclea 5240MHz Ant1



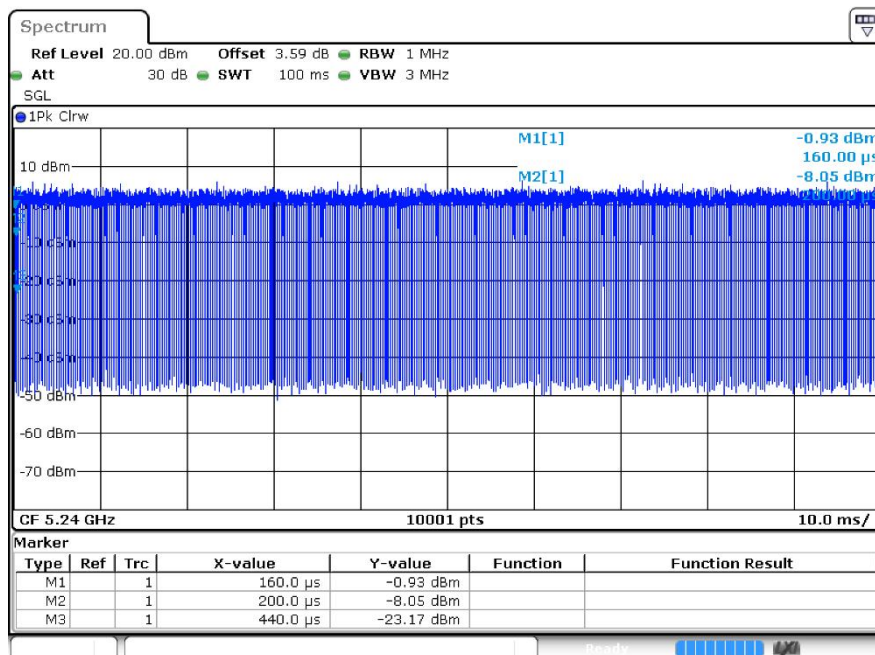
Duty Cycle n20 5180MHz Ant1

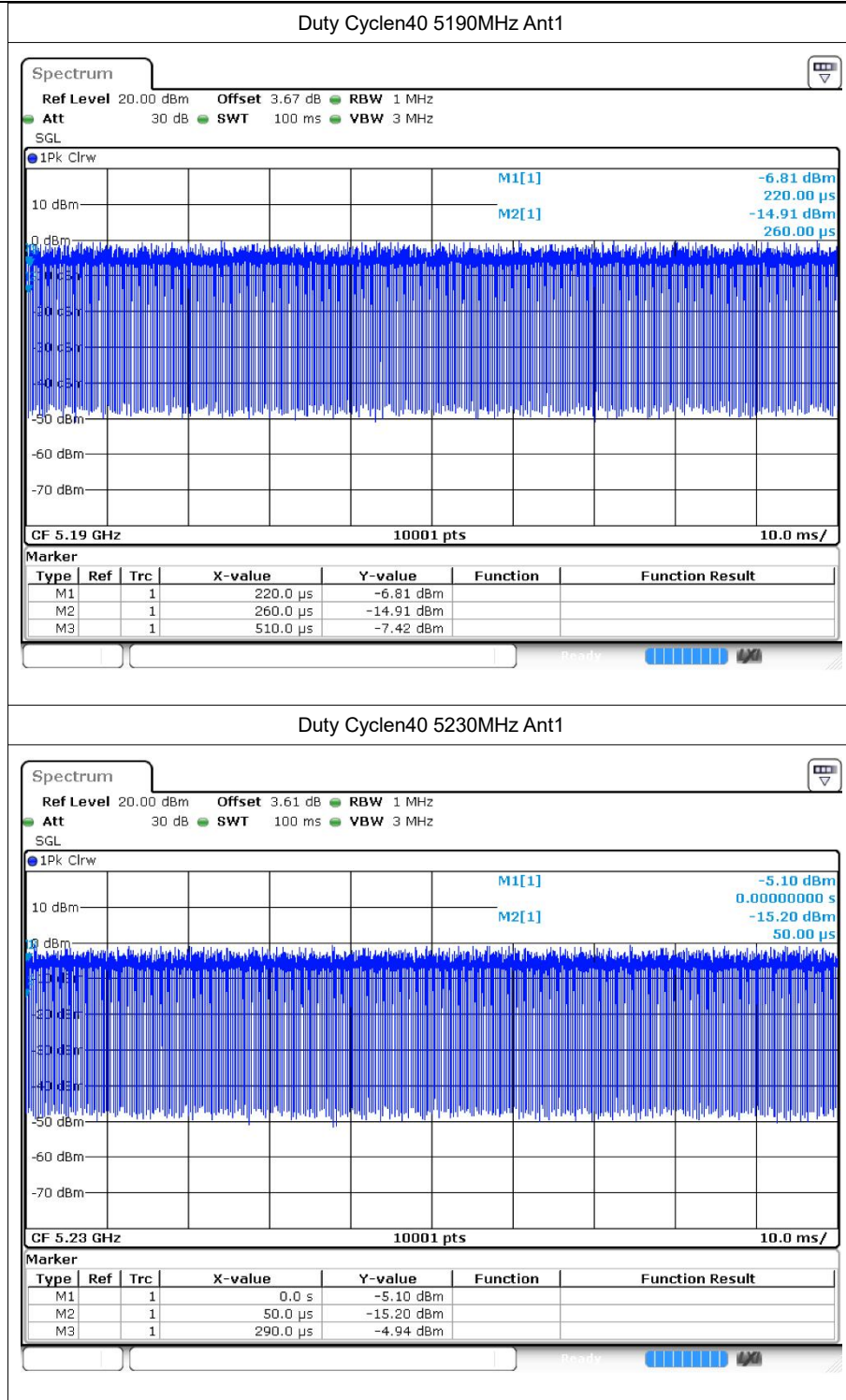


Duty Cycle n20 5200MHz Ant1

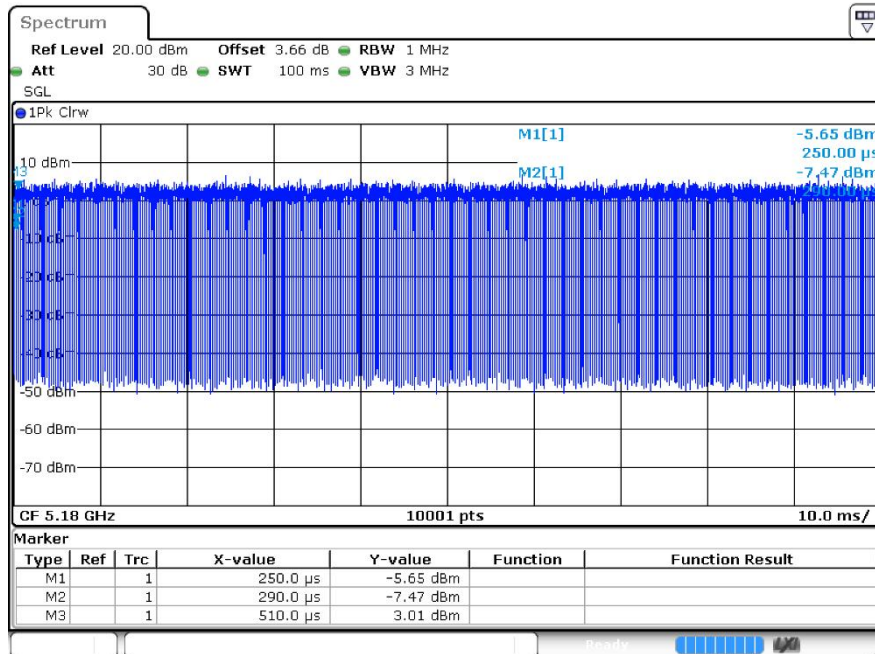


Duty Cycle n20 5240MHz Ant1

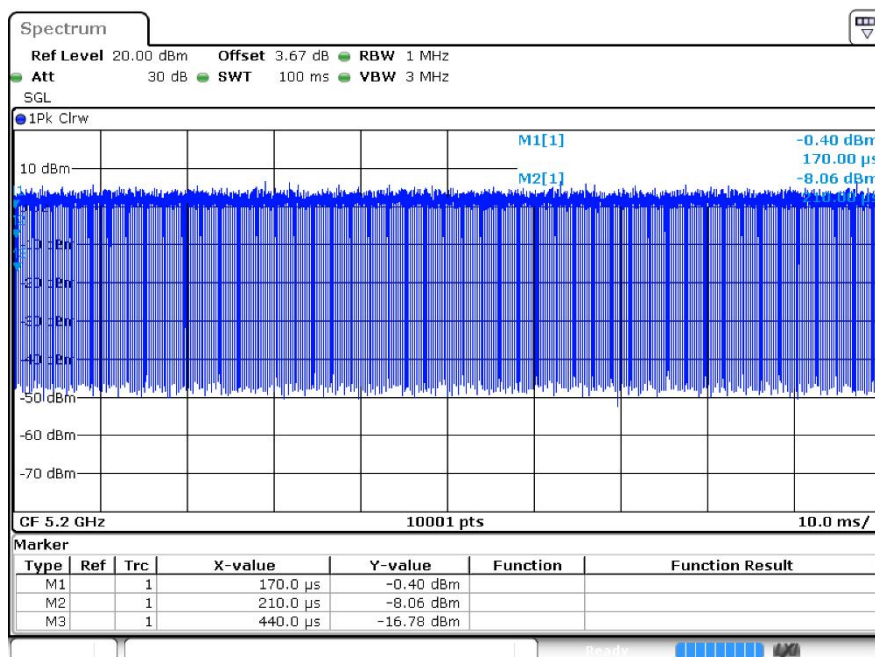




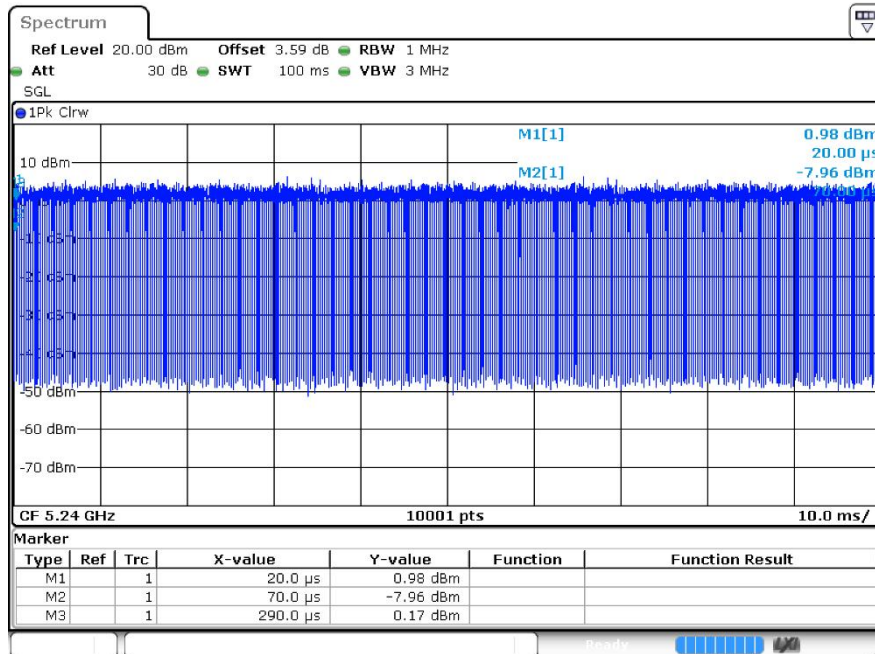
Duty Cycle ac20 5180MHz Ant1



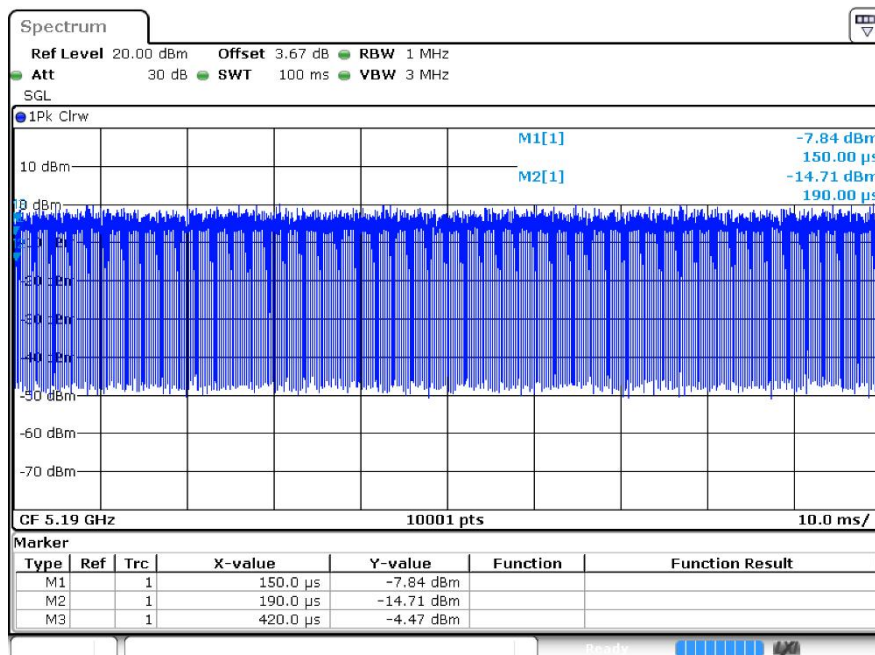
Duty Cycle ac20 5200MHz Ant1

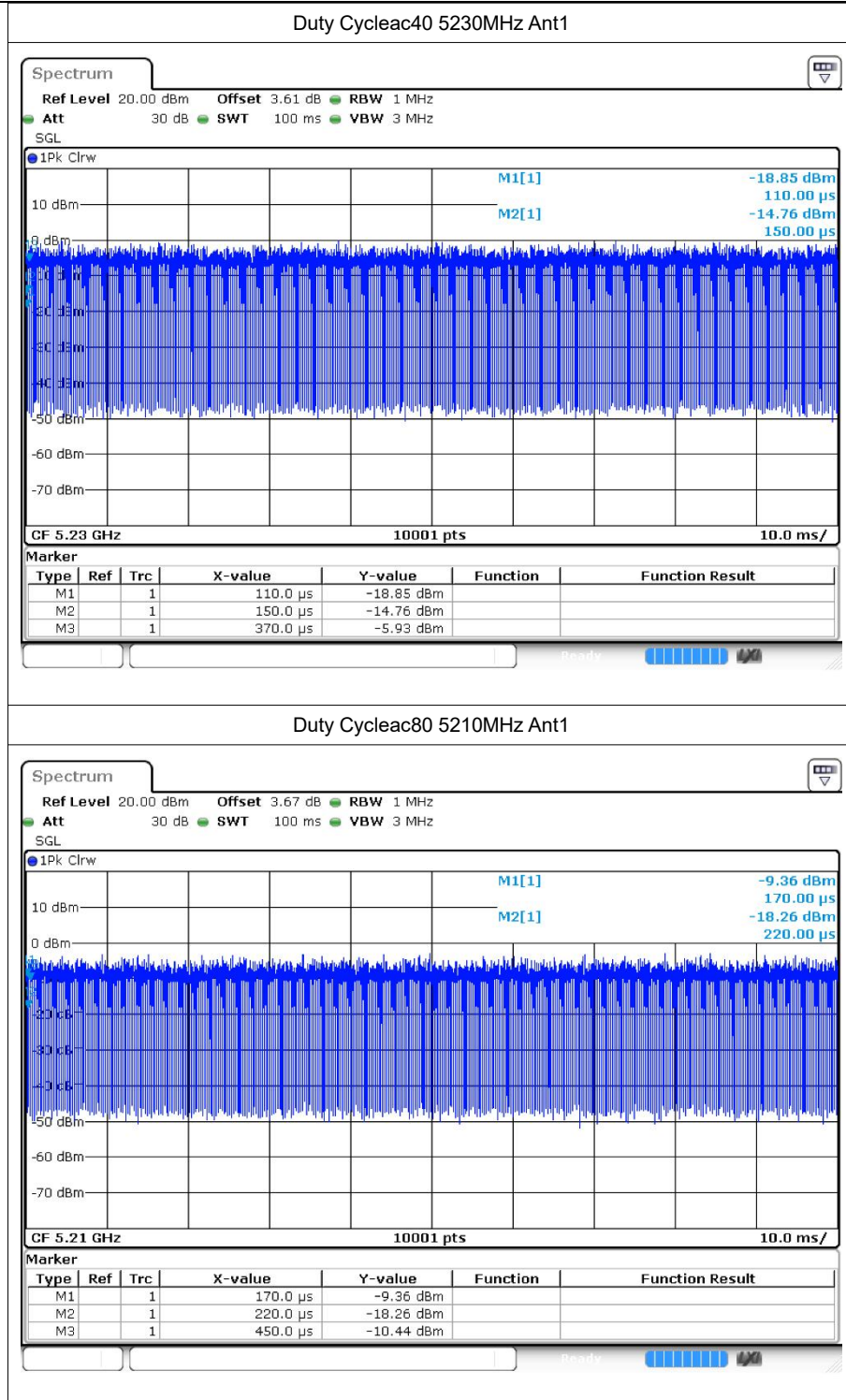


Duty Cycle ac20 5240MHz Ant1



Duty Cycleac40 5190MHz Ant1





2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	13.04	24	Pass
a	5200	Ant1	12.85	24	Pass
a	5240	Ant1	12.75	24	Pass
n20	5180	Ant1	12.59	24	Pass
n20	5200	Ant1	12.54	24	Pass
n20	5240	Ant1	12.12	24	Pass
n40	5190	Ant1	12.07	24	Pass
n40	5230	Ant1	11.68	24	Pass
ac20	5180	Ant1	12.45	24	Pass
ac20	5200	Ant1	12.33	24	Pass
ac20	5240	Ant1	12.12	24	Pass
ac40	5190	Ant1	11.97	24	Pass
ac40	5230	Ant1	11.72	24	Pass
ac80	5210	Ant1	11.69	24	Pass

Note:

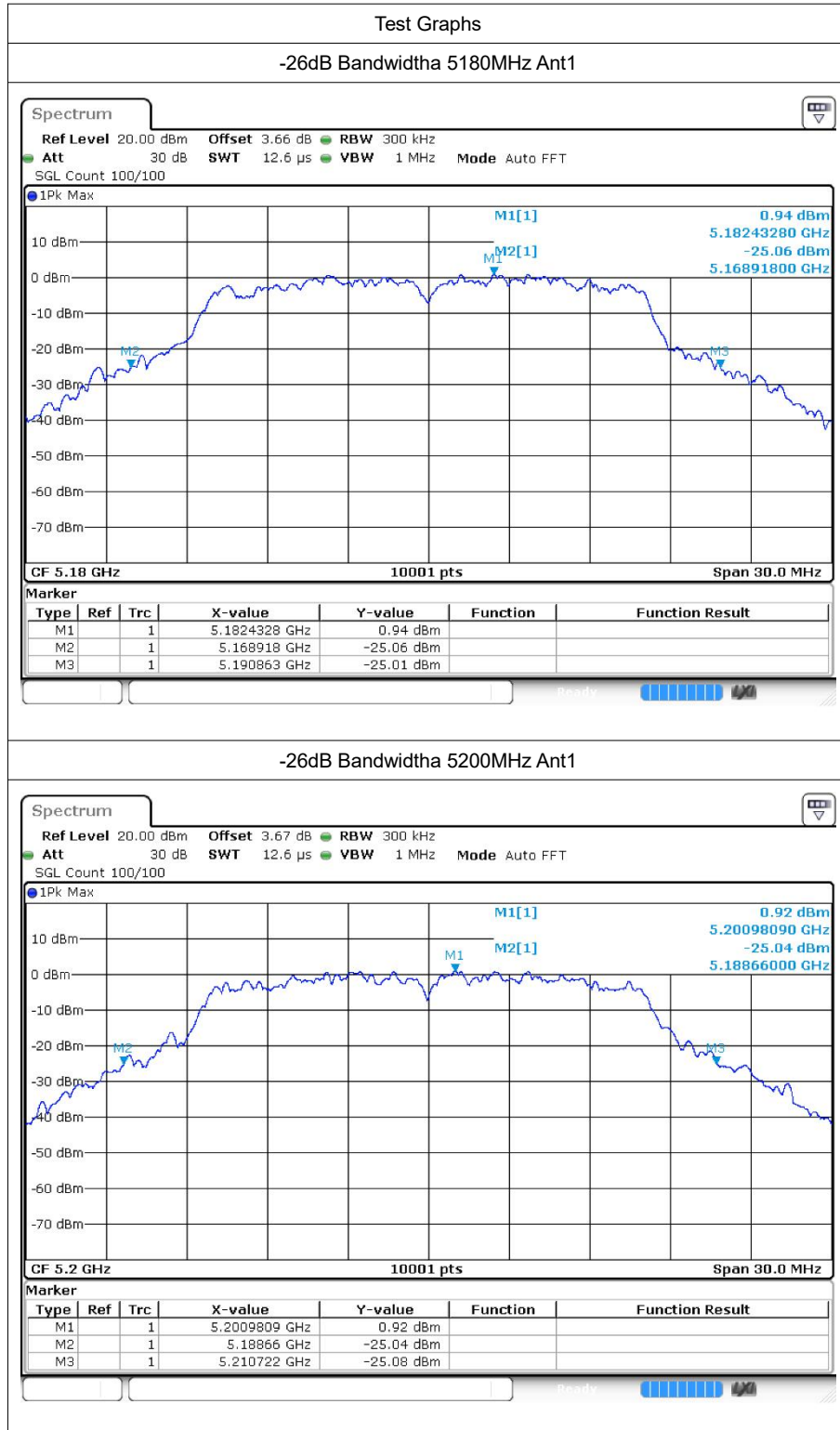
The duty factor has been compensated into the result.

3 -26dB Bandwidth

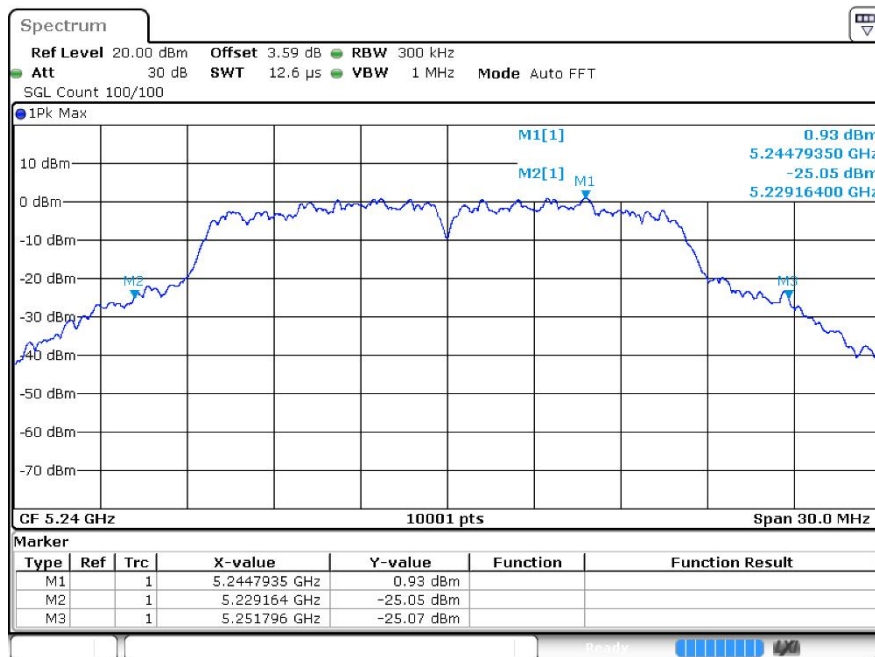
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	21.945	0.5	Pass
a	5200	Ant1	22.062	0.5	Pass
a	5240	Ant1	22.632	0.5	Pass
n20	5180	Ant1	22.416	0.5	Pass
n20	5200	Ant1	22.815	0.5	Pass
n20	5240	Ant1	22.788	0.5	Pass
n40	5190	Ant1	42.294	0.5	Pass
n40	5230	Ant1	41.49	0.5	Pass
ac20	5180	Ant1	22.734	0.5	Pass
ac20	5200	Ant1	23.025	0.5	Pass
ac20	5240	Ant1	23.427	0.5	Pass
ac40	5190	Ant1	43.218	0.5	Pass
ac40	5230	Ant1	42.648	0.5	Pass
ac80	5210	Ant1	83.46	0.5	Pass

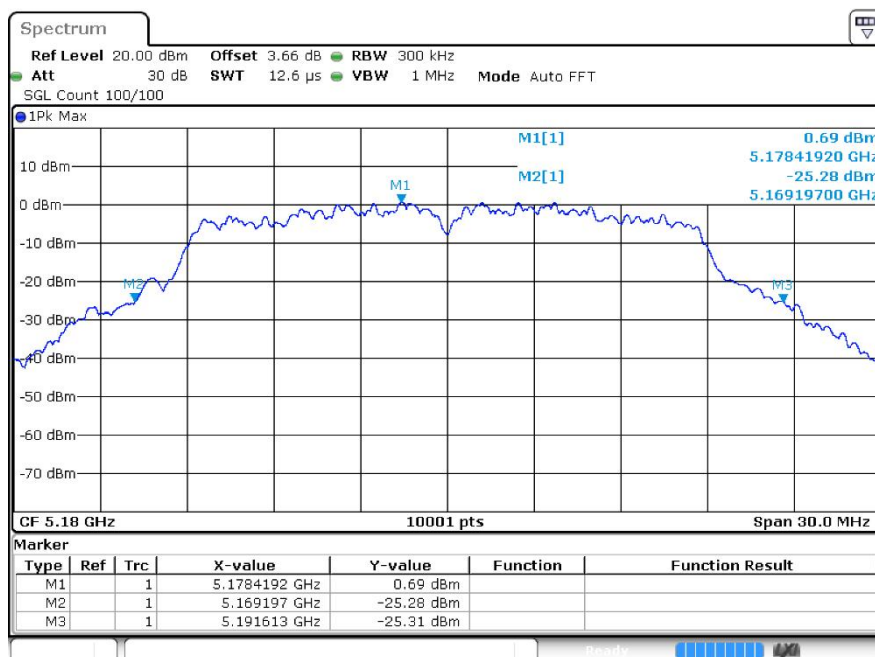
3.2 Test Graphs



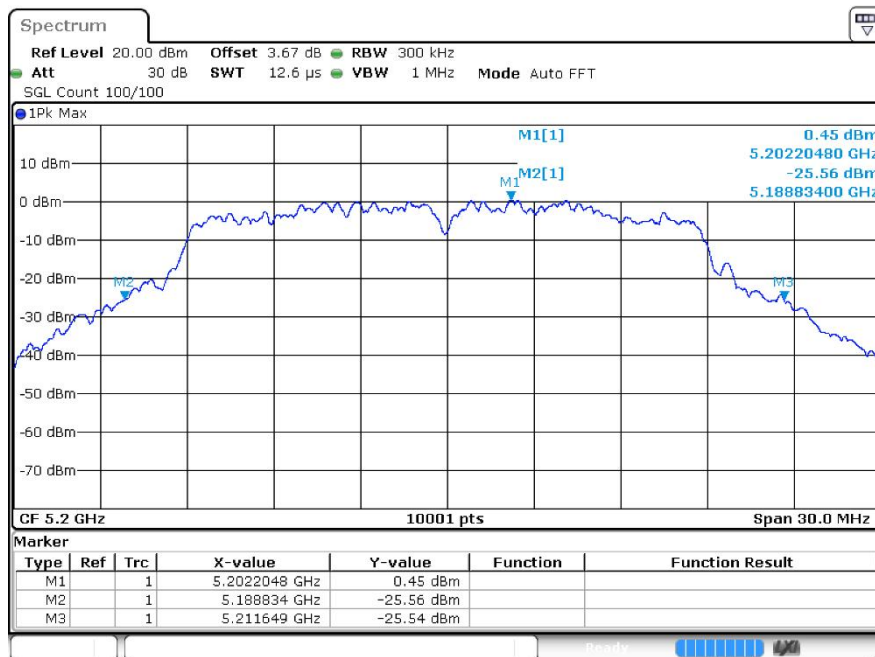
-26dB Bandwidtha 5240MHz Ant1



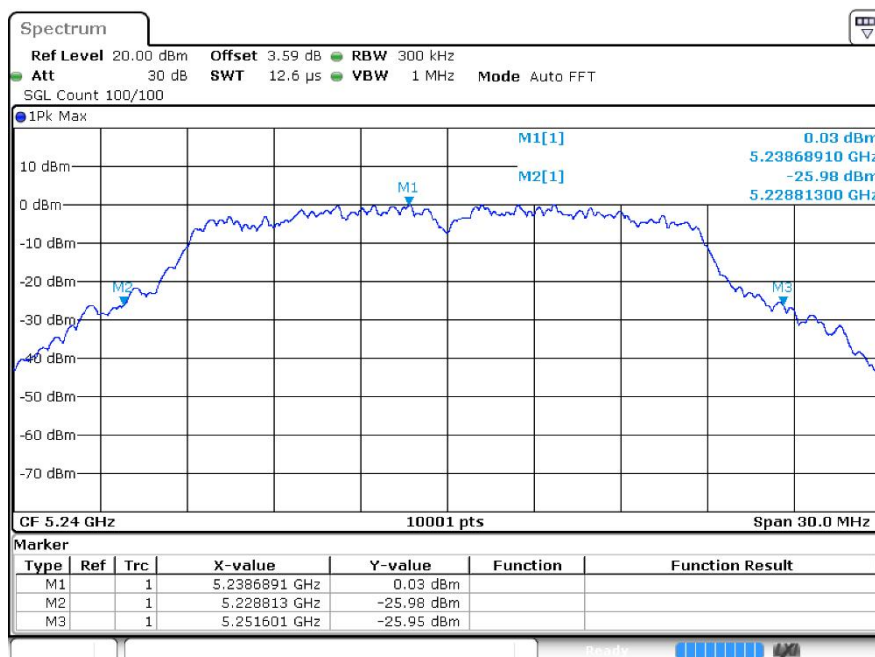
-26dB Bandwidth n20 5180MHz Ant1



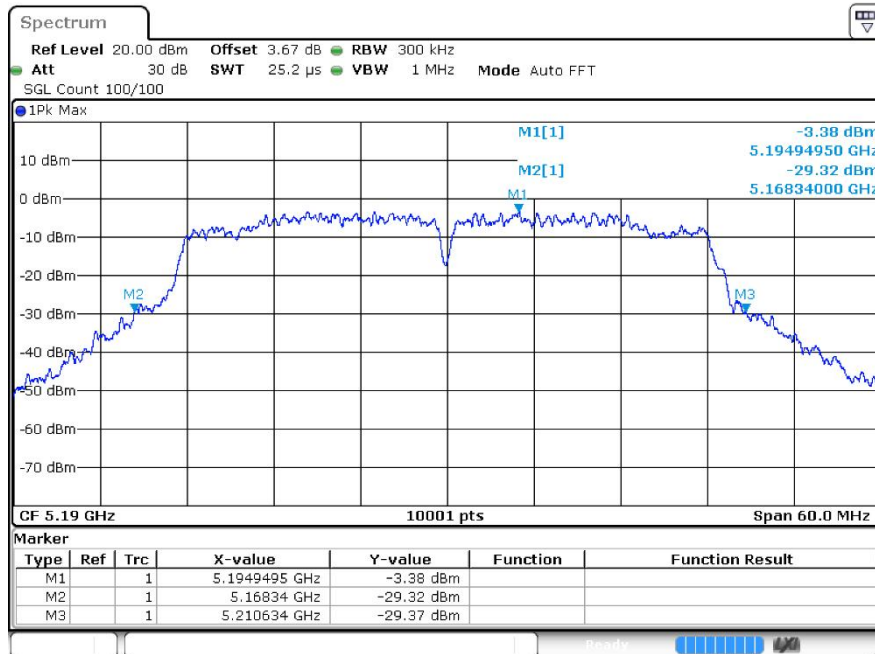
-26dB Bandwidth n20 5200MHz Ant1



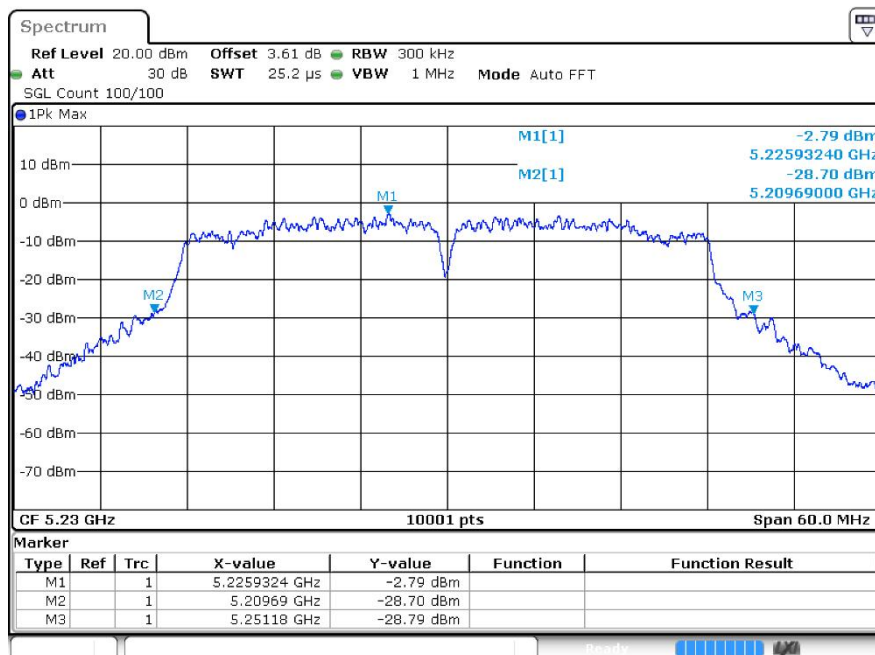
-26dB Bandwidth n20 5240MHz Ant1



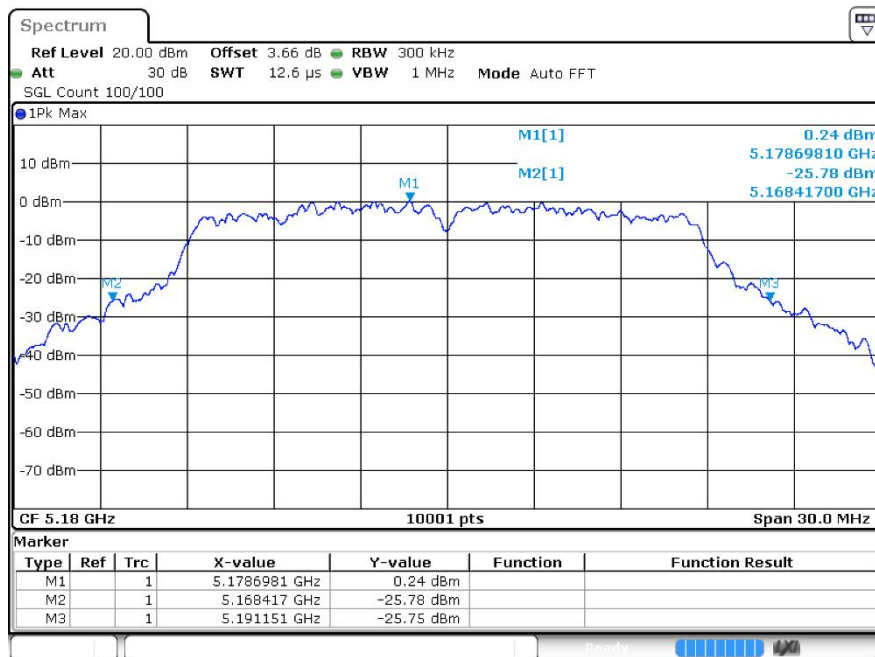
-26dB Bandwidthn40 5190MHz Ant1



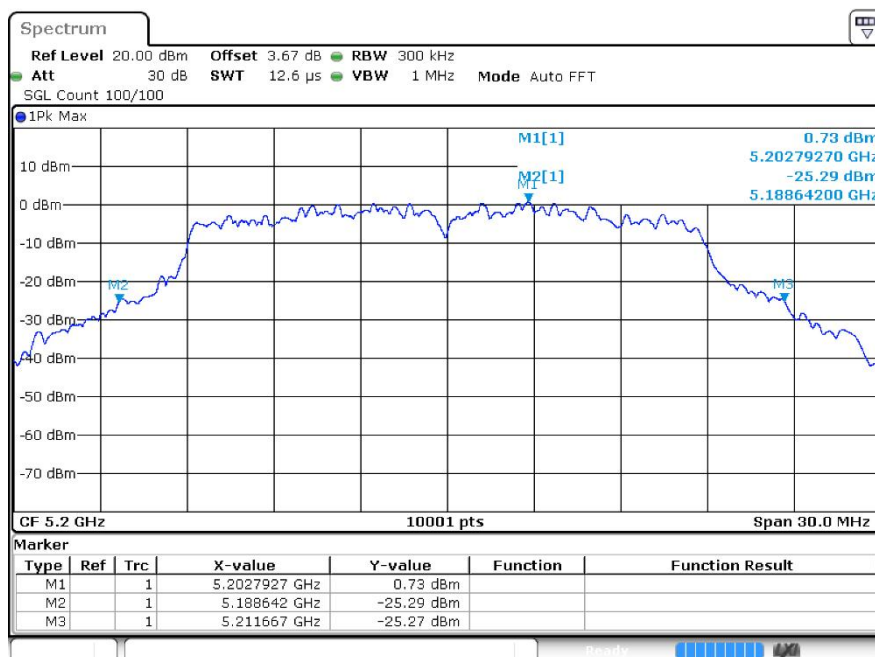
-26dB Bandwidthn40 5230MHz Ant1



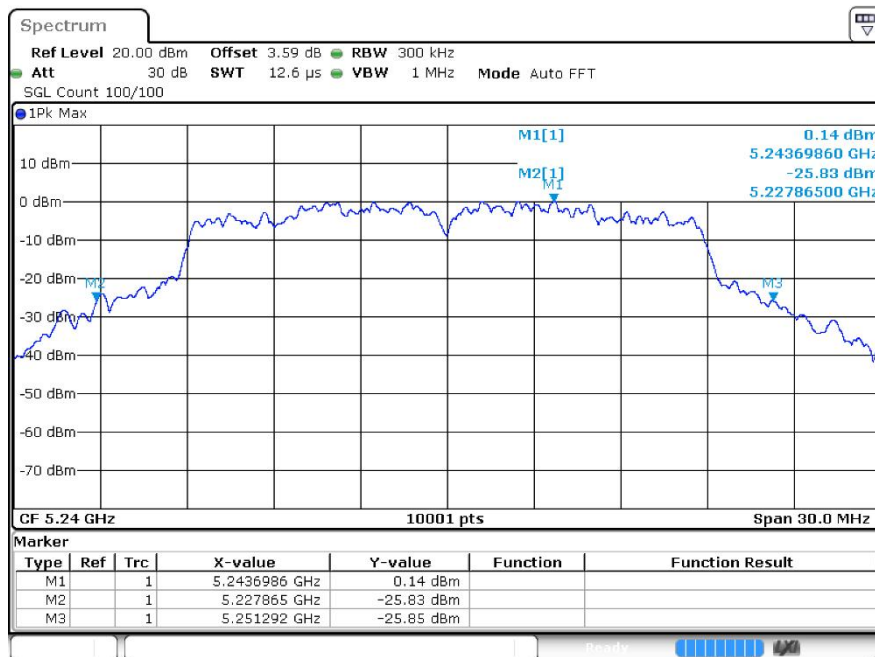
-26dB Bandwidth ac20 5180MHz Ant1



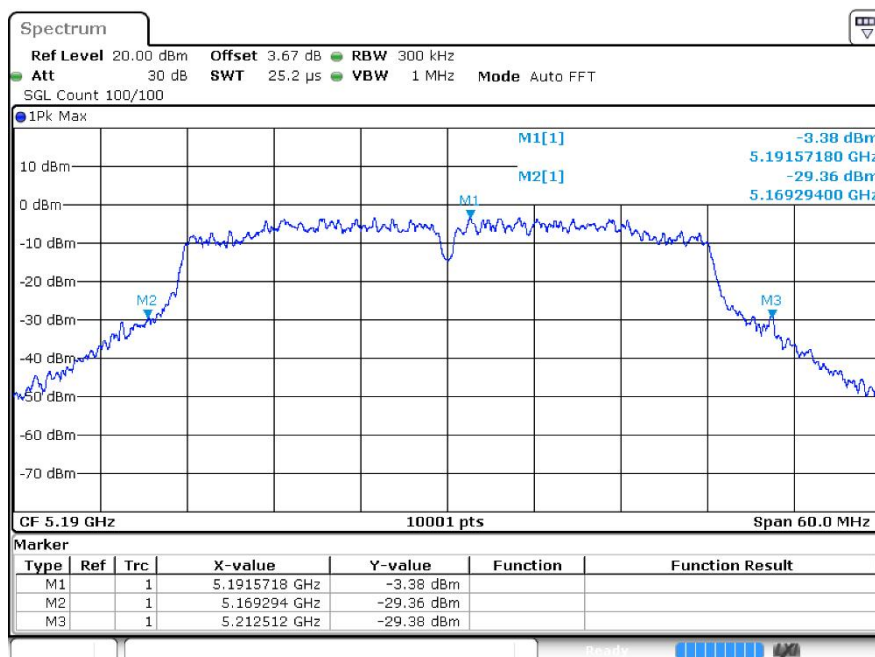
-26dB Bandwidth ac20 5200MHz Ant1



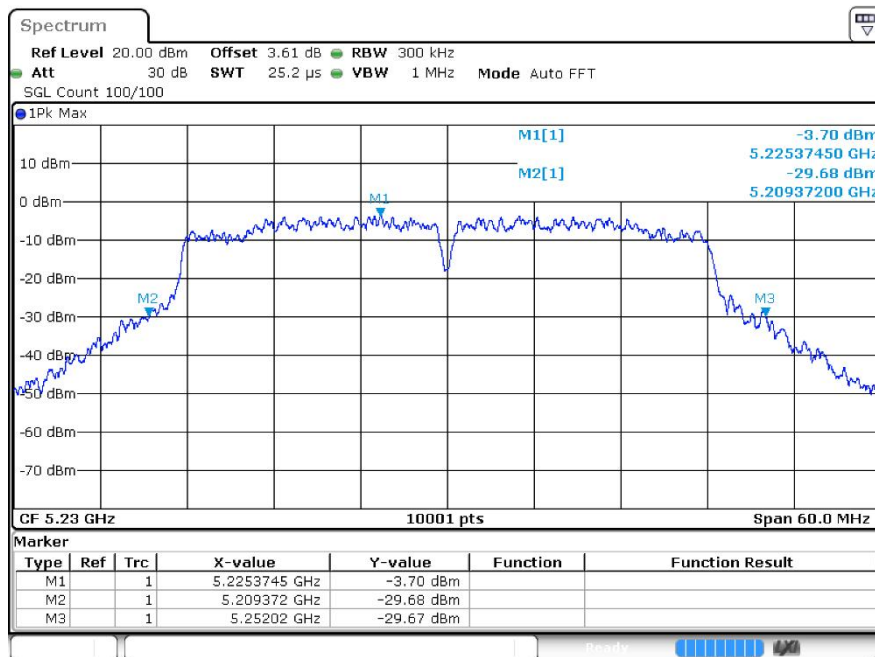
-26dB Bandwidth ac20 5240MHz Ant1



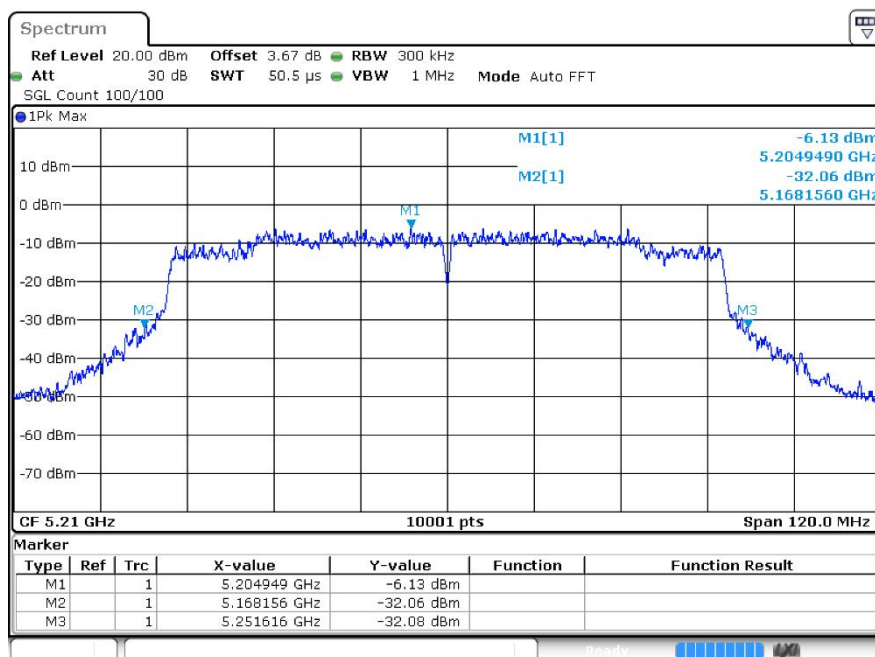
-26dB Bandwidthac40 5190MHz Ant1



-26dB Bandwidthac40 5230MHz Ant1



-26dB Bandwidthac80 5210MHz Ant1



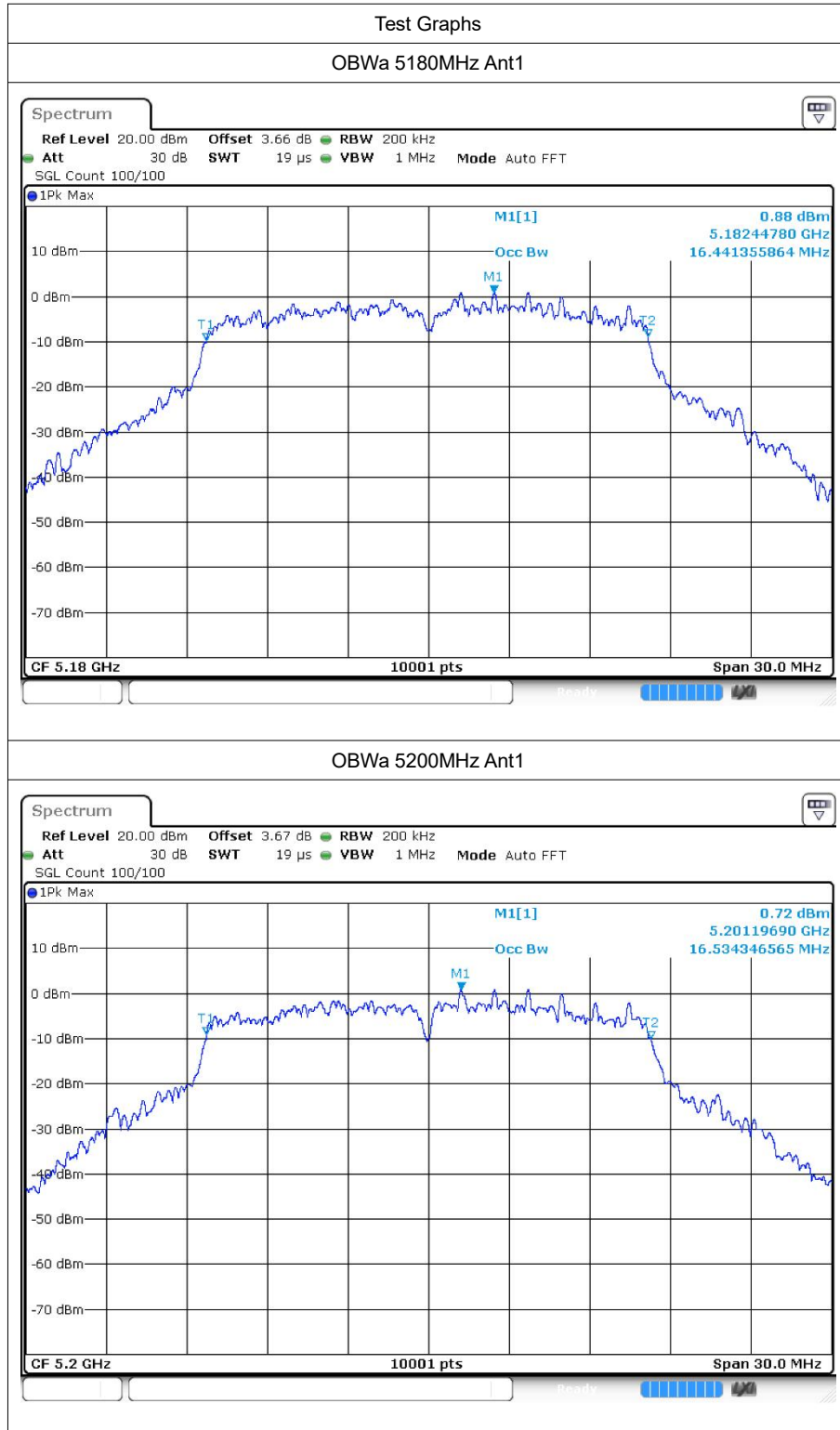


4 Occupied Channel Bandwidth

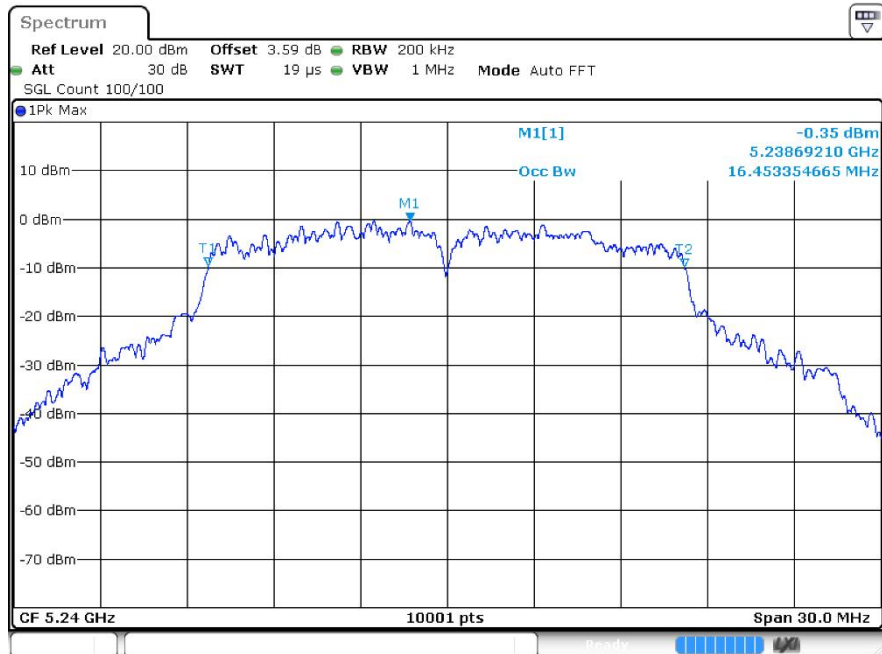
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.441
a	5200	Ant1	16.534
a	5240	Ant1	16.453
n20	5180	Ant1	17.551
n20	5200	Ant1	17.653
n20	5240	Ant1	17.578
n40	5190	Ant1	35.936
n40	5230	Ant1	36.026
ac20	5180	Ant1	17.59
ac20	5200	Ant1	17.572
ac20	5240	Ant1	17.731
ac40	5190	Ant1	35.99
ac40	5230	Ant1	36.05
ac80	5210	Ant1	75.004

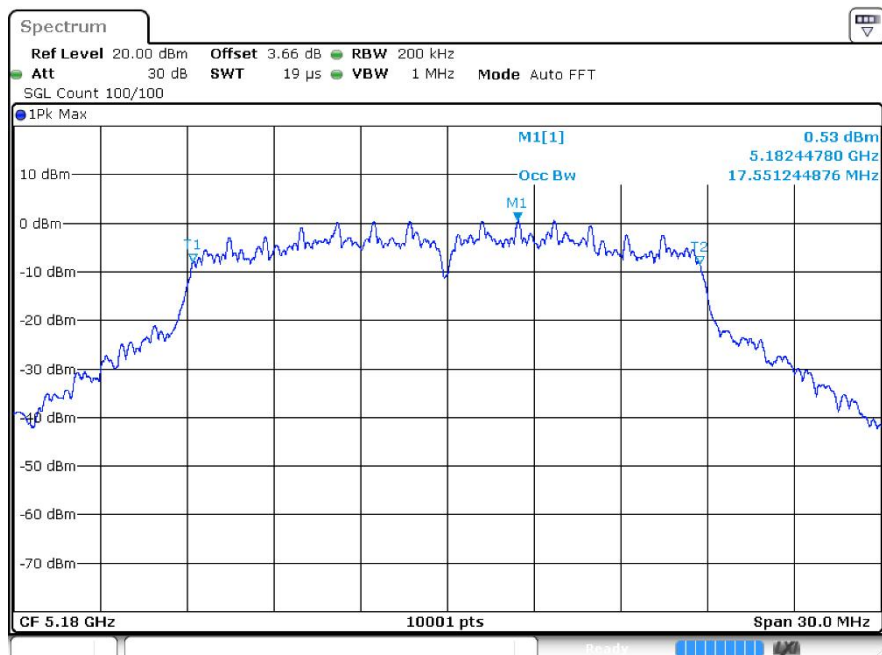
4.2 Test Graphs



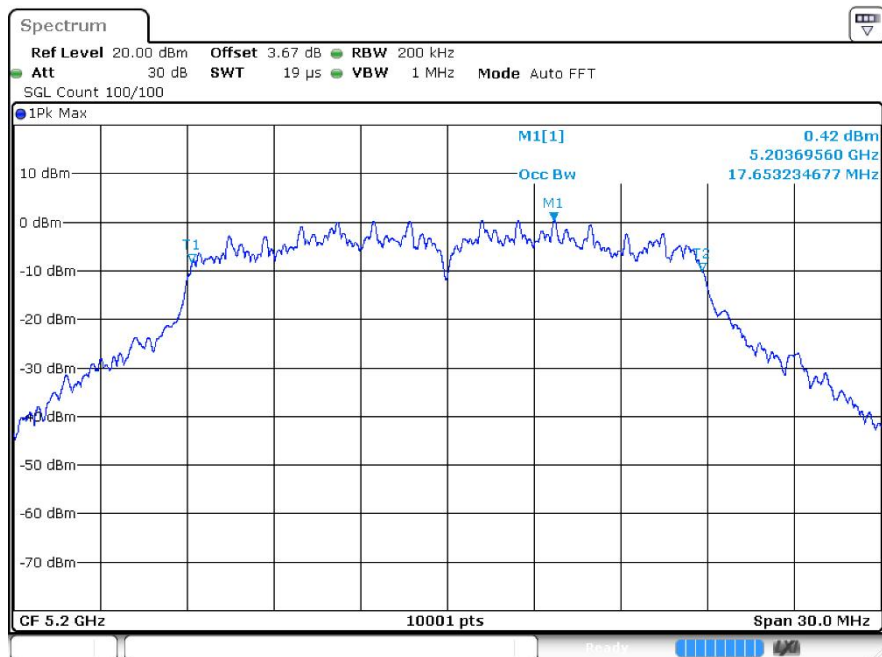
OBWa 5240MHz Ant1



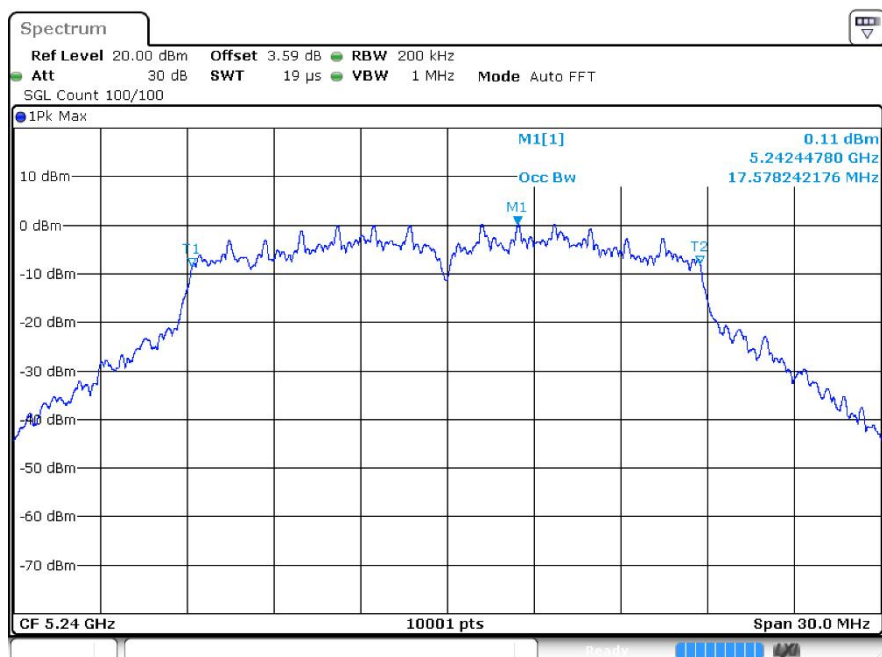
OBW n20 5180MHz Ant1



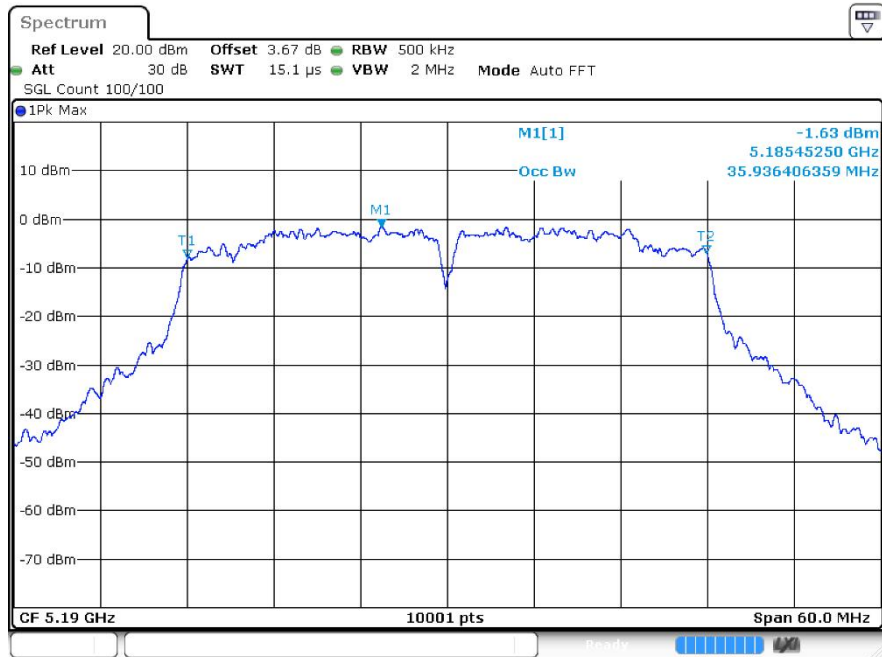
OBW n20 5200MHz Ant1



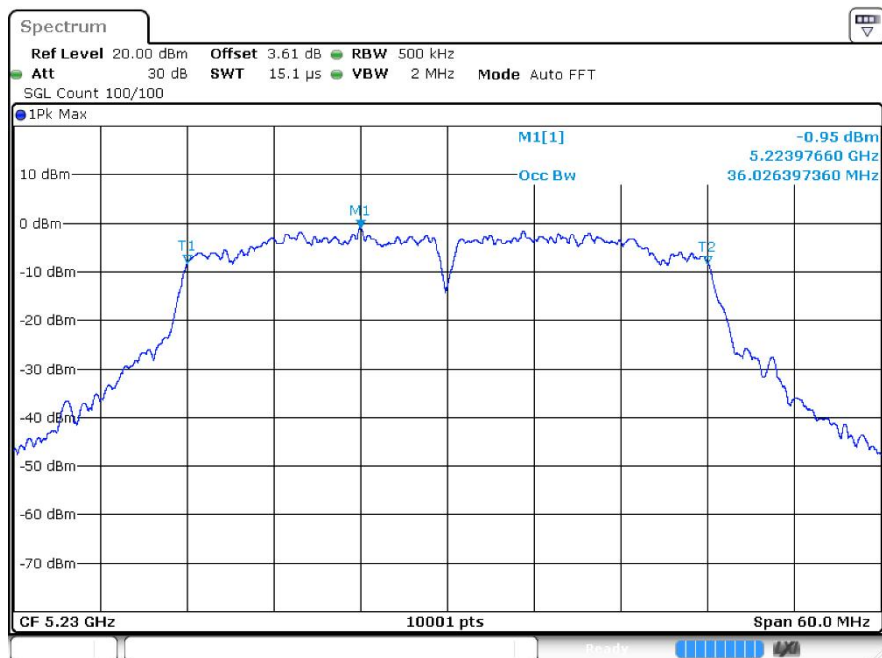
OBW n20 5240MHz Ant1



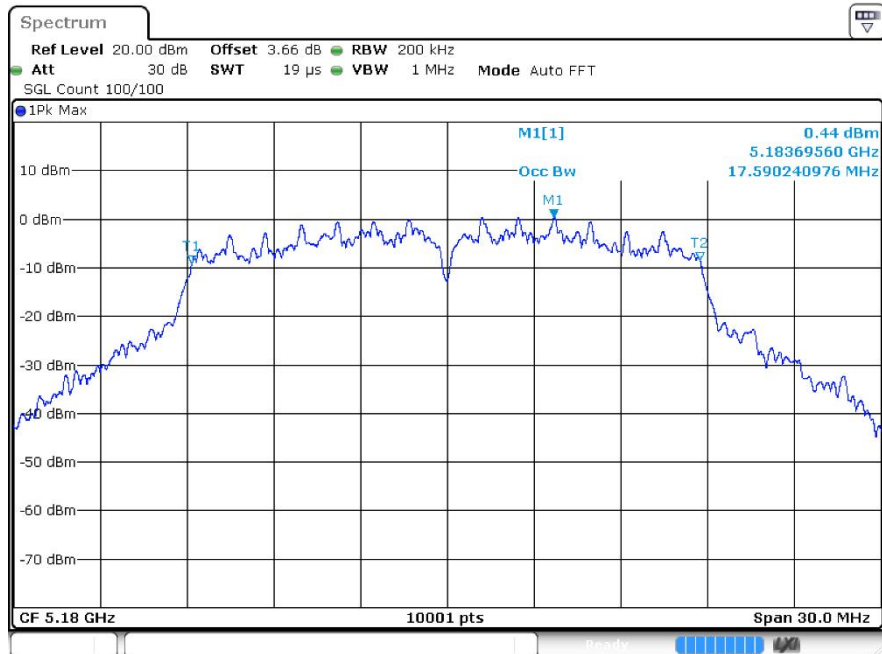
OBWn40 5190MHz Ant1



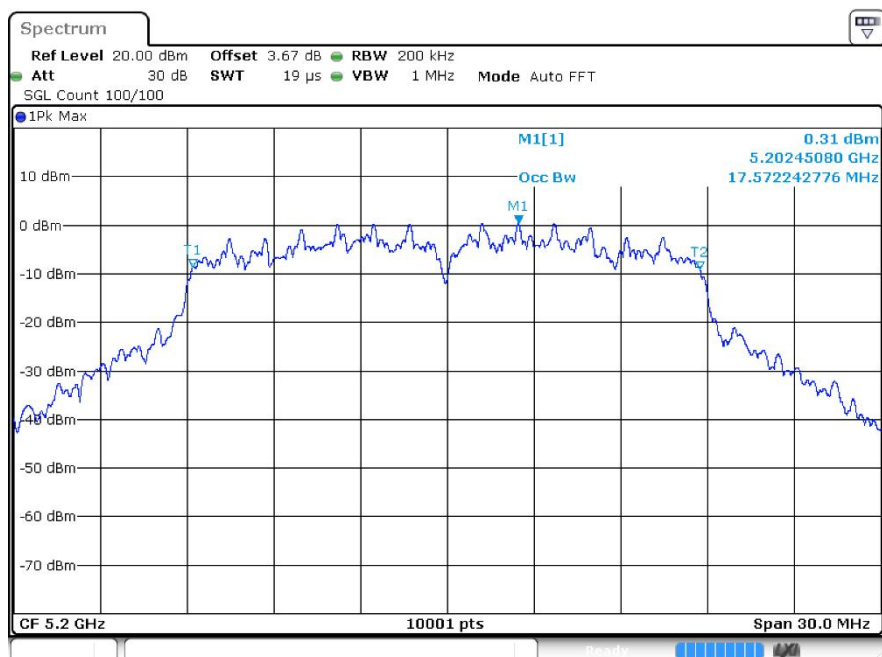
OBWn40 5230MHz Ant1



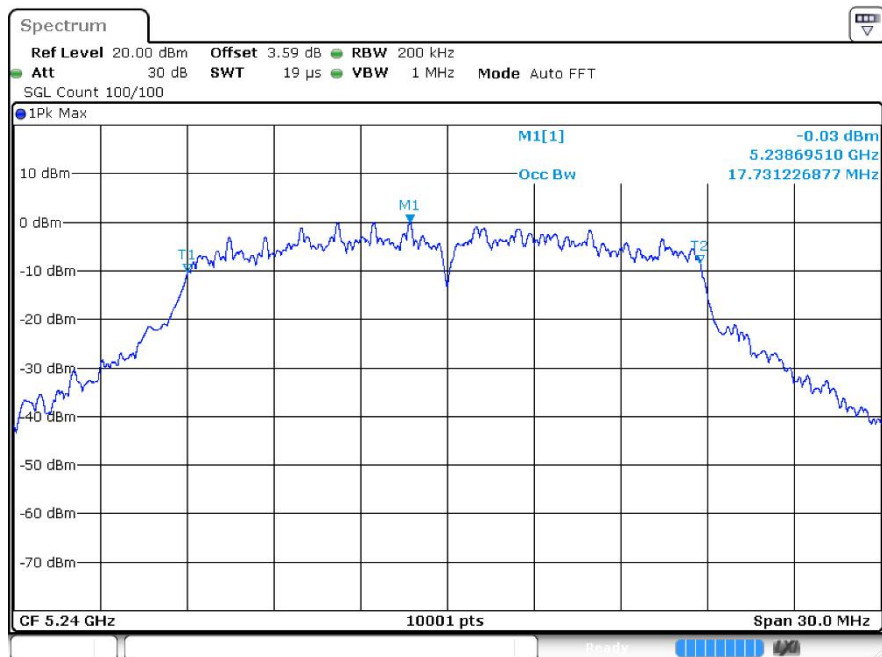
OBW ac20 5180MHz Ant1



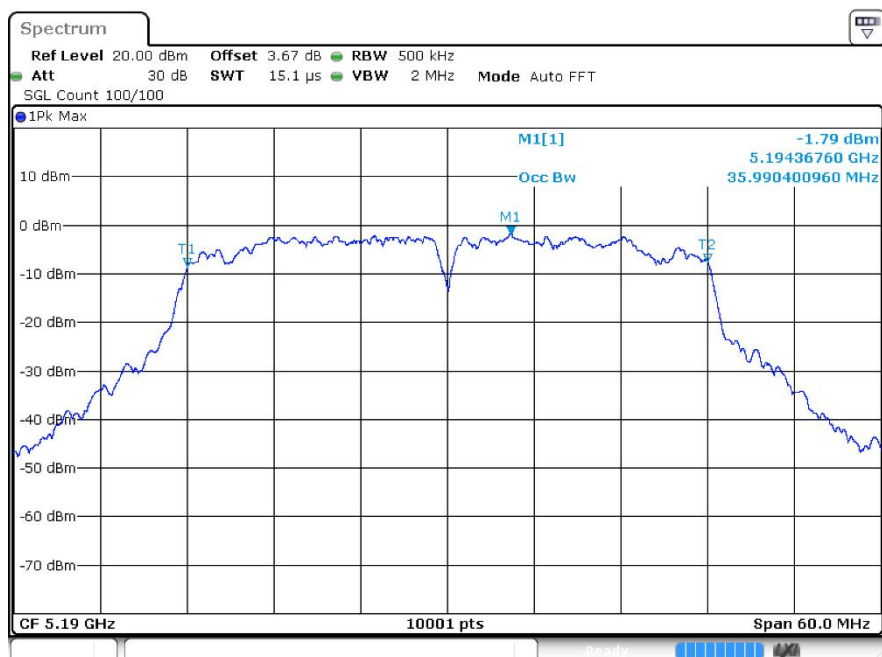
OBW ac20 5200MHz Ant1



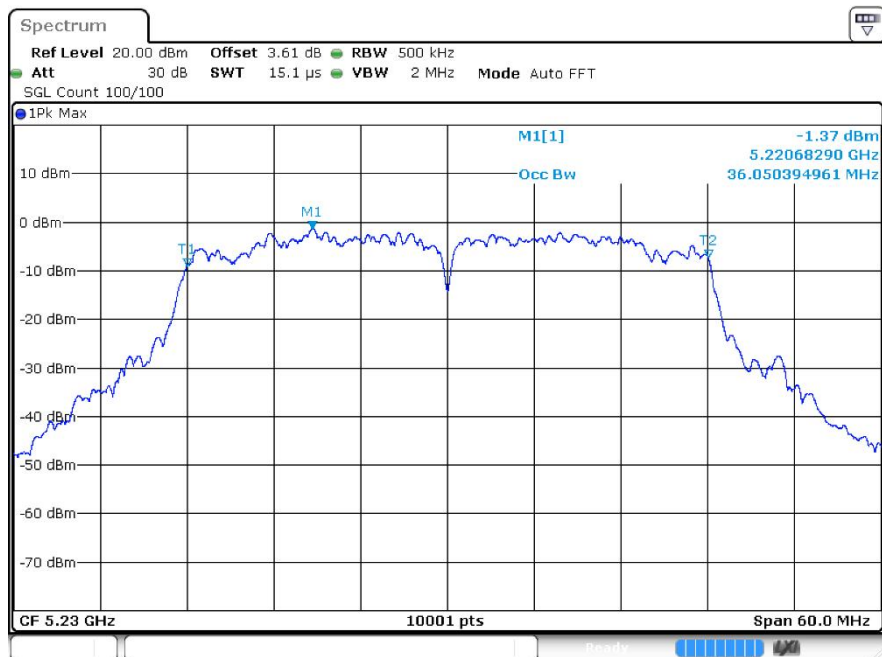
OBW ac20 5240MHz Ant1



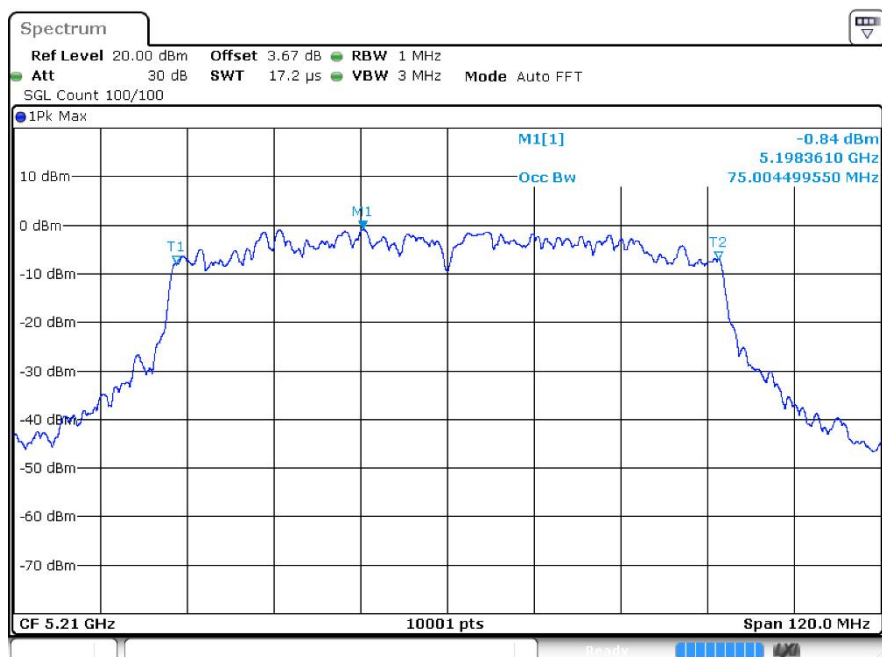
OBWac40 5190MHz Ant1



OBWac40 5230MHz Ant1



OBWac80 5210MHz Ant1

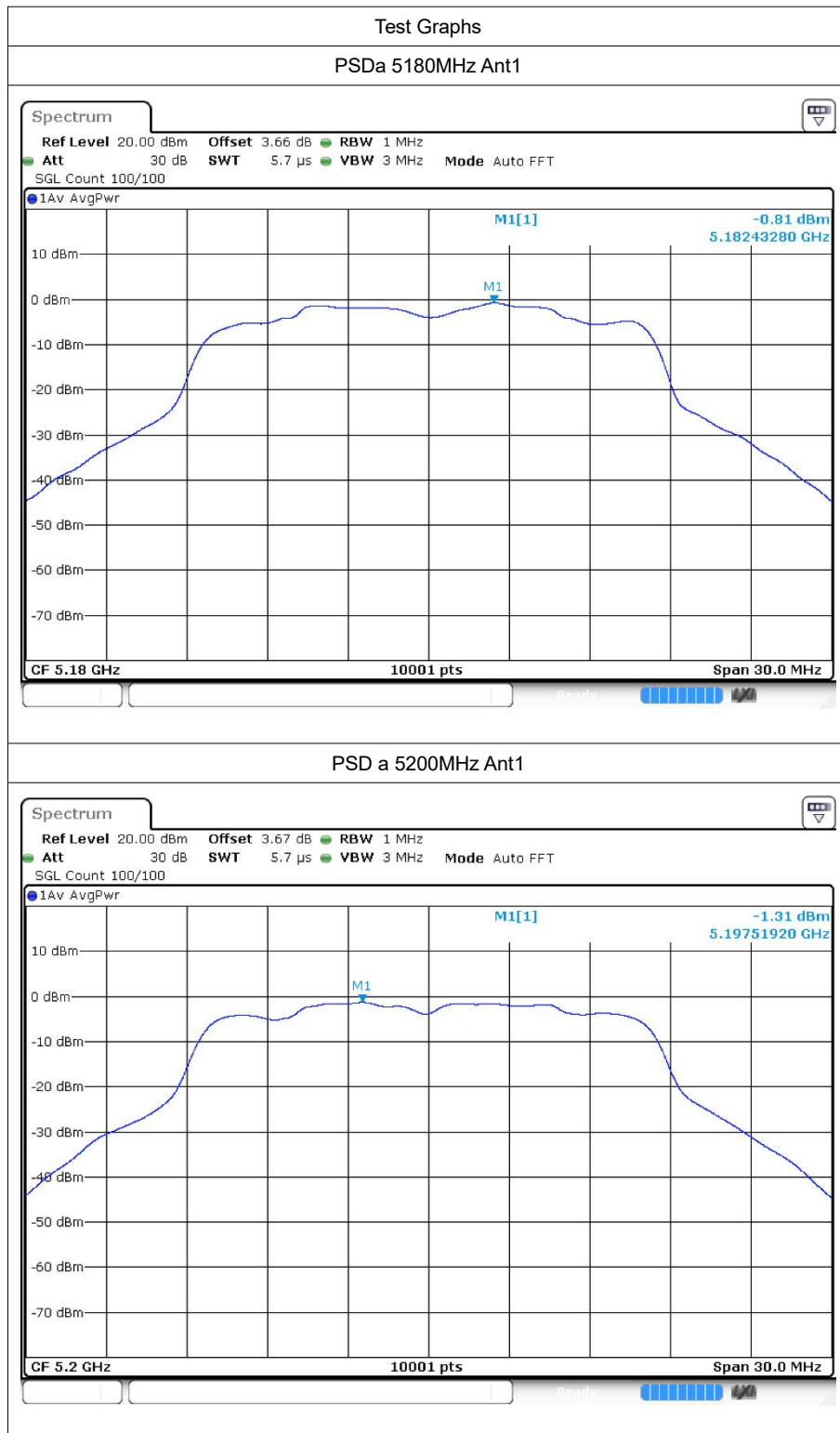


5 Maximum Power Spectral Density Level

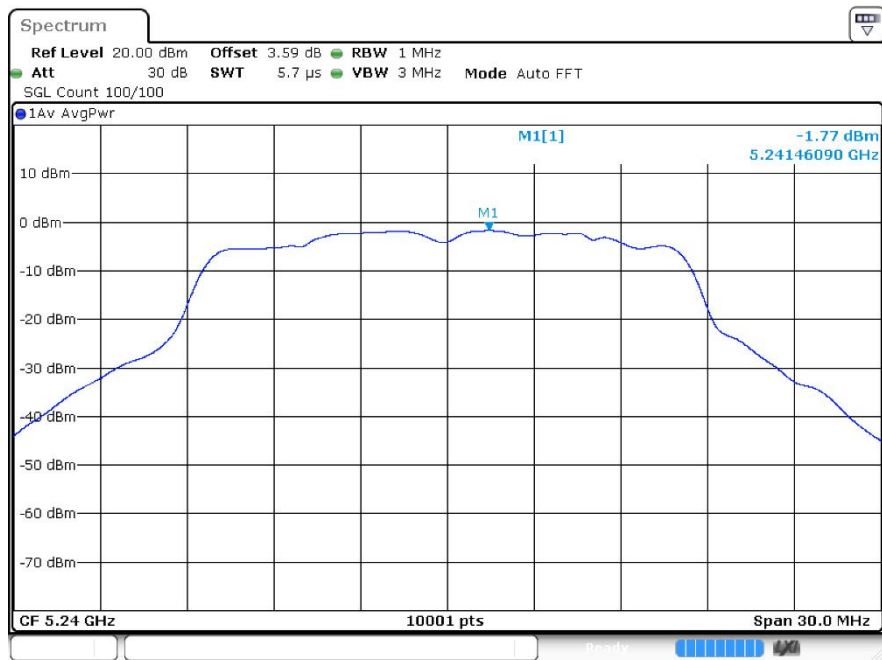
5.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	-0.81	0.61	-0.2	11	Pass
a	5200	Ant1	-1.31	0.62	-0.69	11	Pass
a	5240	Ant1	-1.77	0.62	-1.15	11	Pass
n20	5180	Ant1	-2.15	0.57	-1.58	11	Pass
n20	5200	Ant1	-2.86	0.57	-2.29	11	Pass
n20	5240	Ant1	-2.13	0.57	-1.56	11	Pass
n40	5190	Ant1	-5.48	0.55	-4.93	11	Pass
n40	5230	Ant1	-6.23	0.55	-5.68	11	Pass
ac20	5180	Ant1	-1.71	0.59	-1.12	11	Pass
ac20	5200	Ant1	-2.36	0.59	-1.77	11	Pass
ac20	5240	Ant1	-1.79	0.59	-1.2	11	Pass
ac40	5190	Ant1	-5.91	0.6	-5.31	11	Pass
ac40	5230	Ant1	-5.76	0.59	-5.17	11	Pass
ac80	5210	Ant1	-8.89	0.59	-8.3	11	Pass

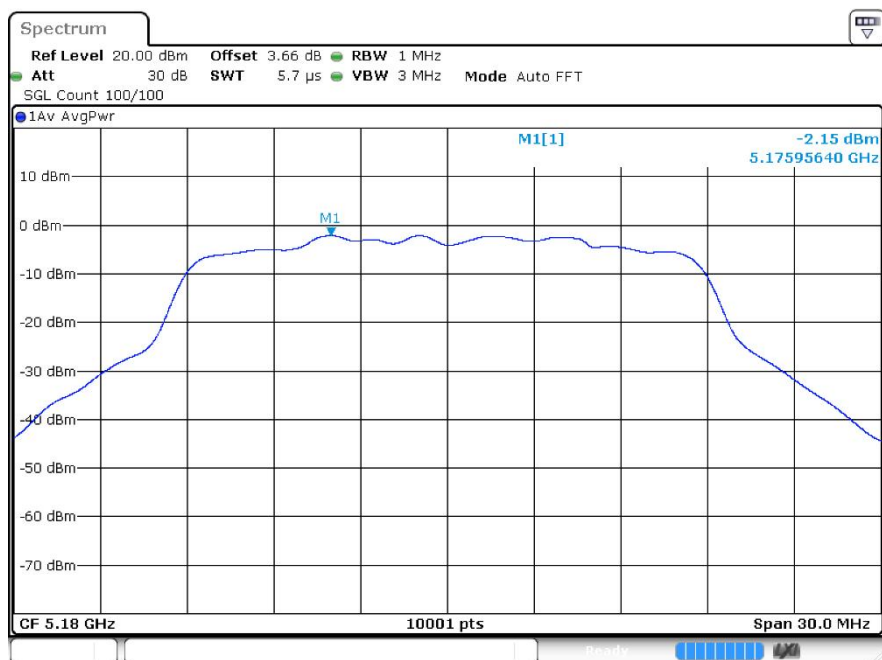
5.2 Test Graphs



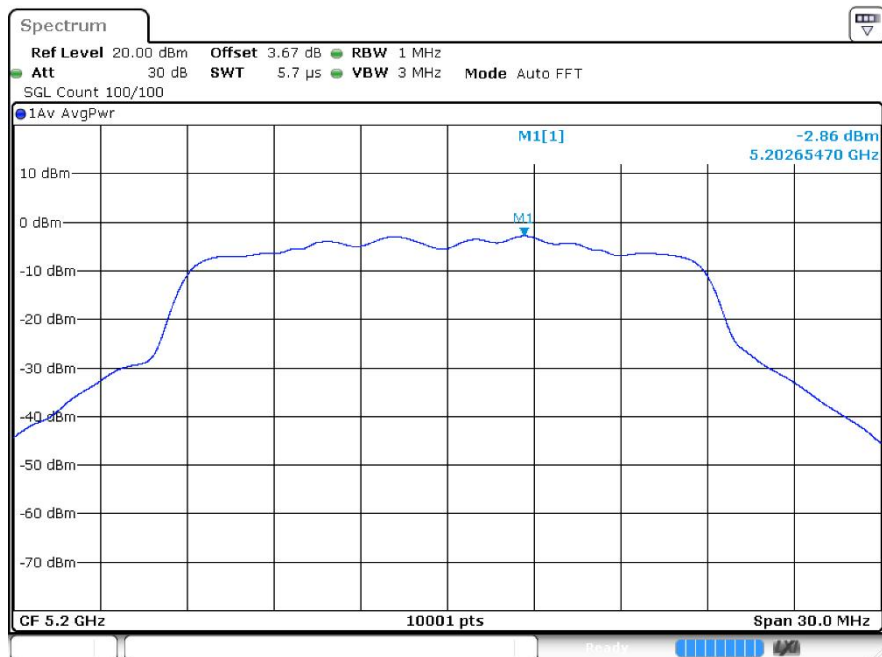
PSDa 5240MHz Ant1



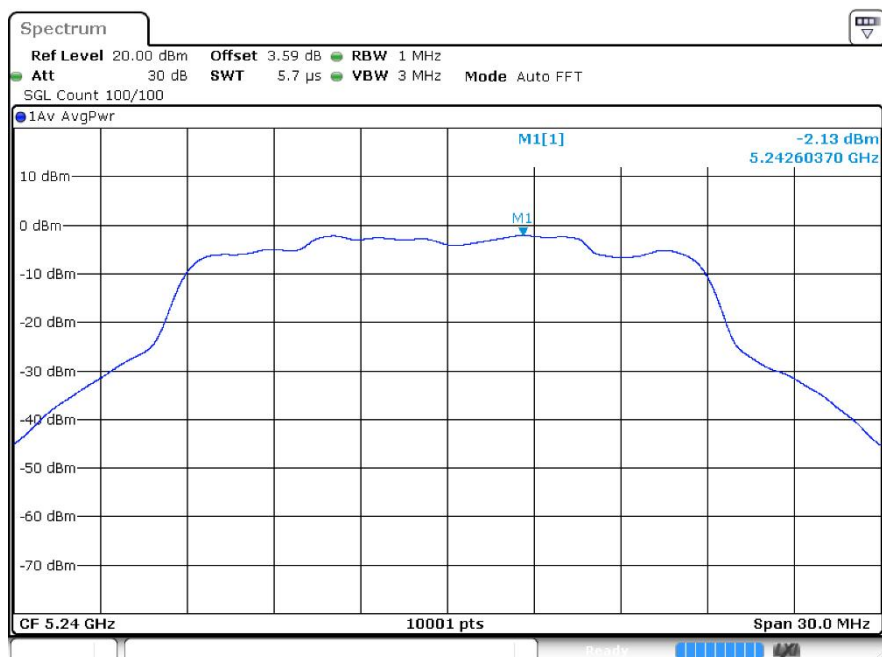
PSD n20 5180MHz Ant1



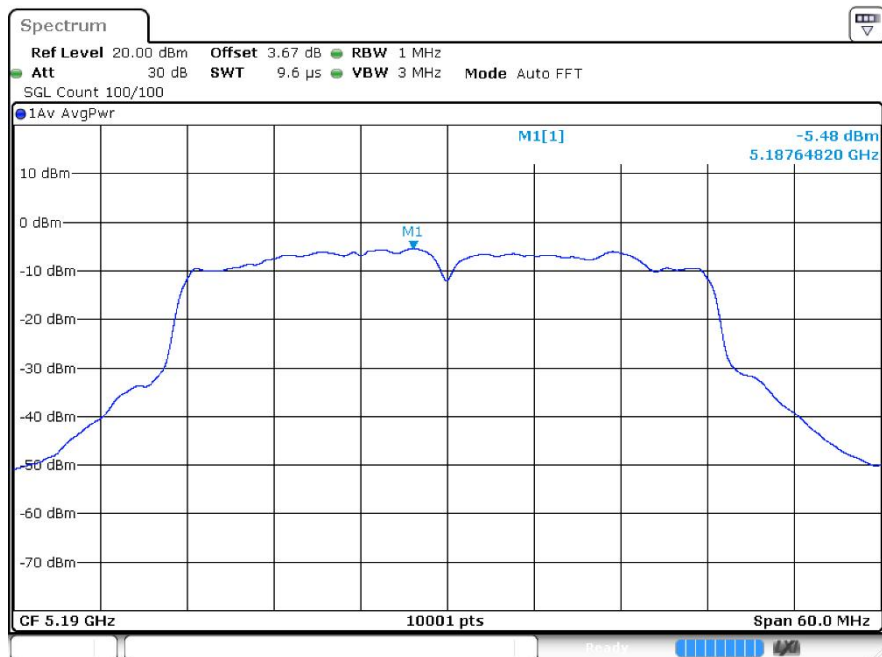
PSD n20 5200MHz Ant1



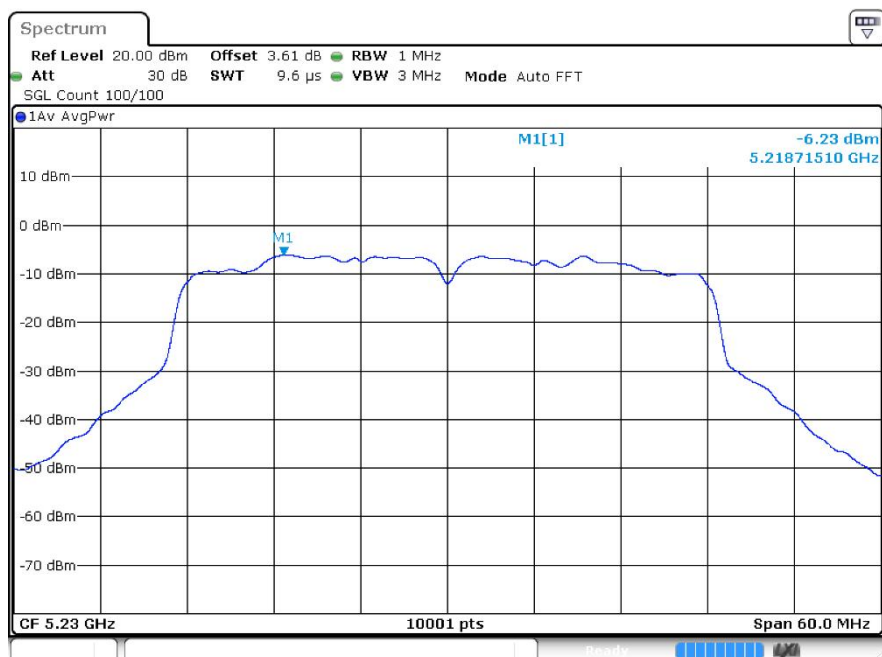
PSD n20 5240MHz Ant1



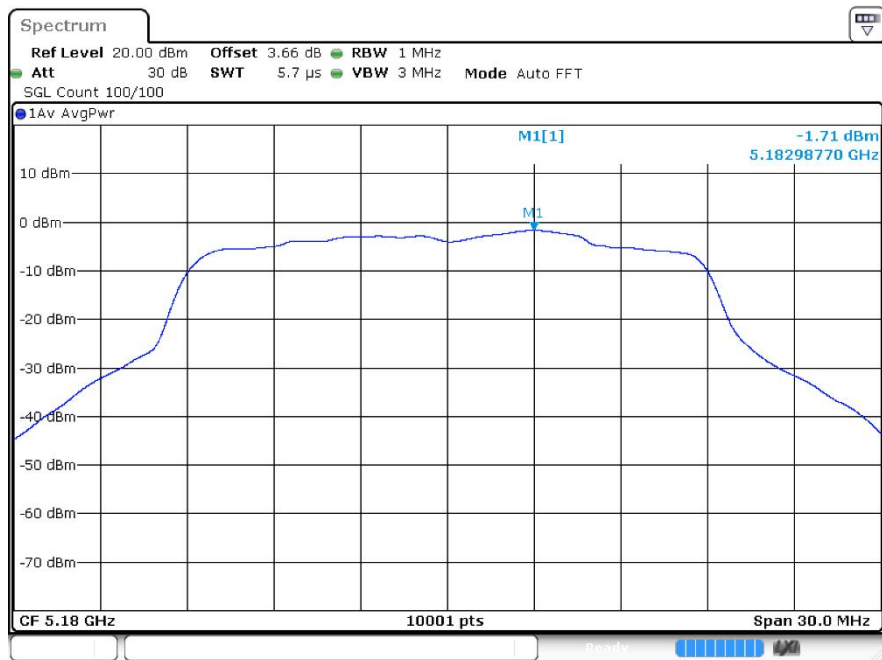
PSDn40 5190MHz Ant1



PSDn40 5230MHz Ant1



PSD ac20 5180MHz Ant1



PSD ac20 5200MHz Ant1

