



Appendix D

RF Test Data for B1WIFI(Conducted Measurement)

Product Name: Action Camera

Trade Mark: SJCAM

Test Model: C400

Environmental Conditions

Temperature:	24.8° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Huang



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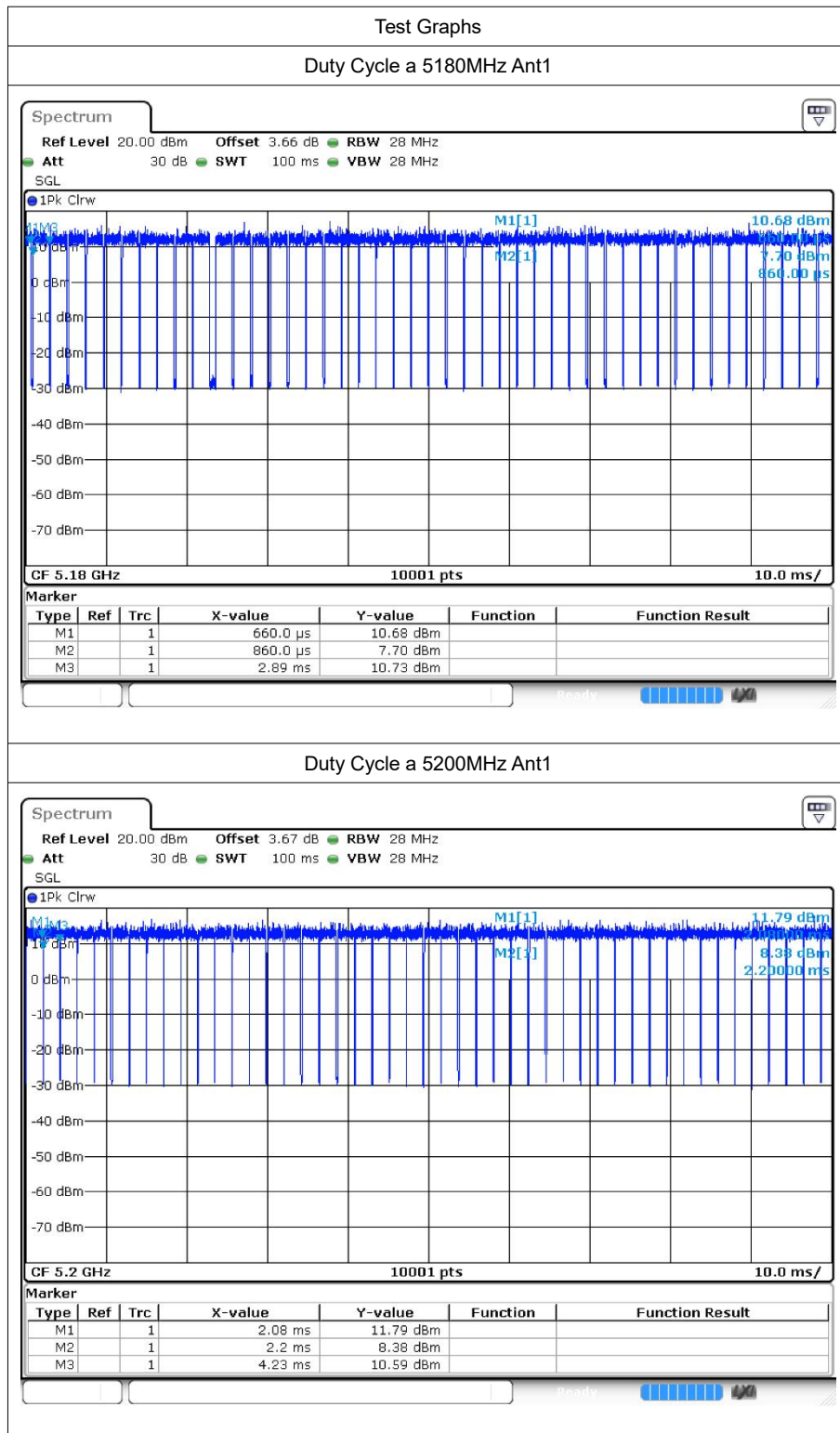


1 Duty Cycle

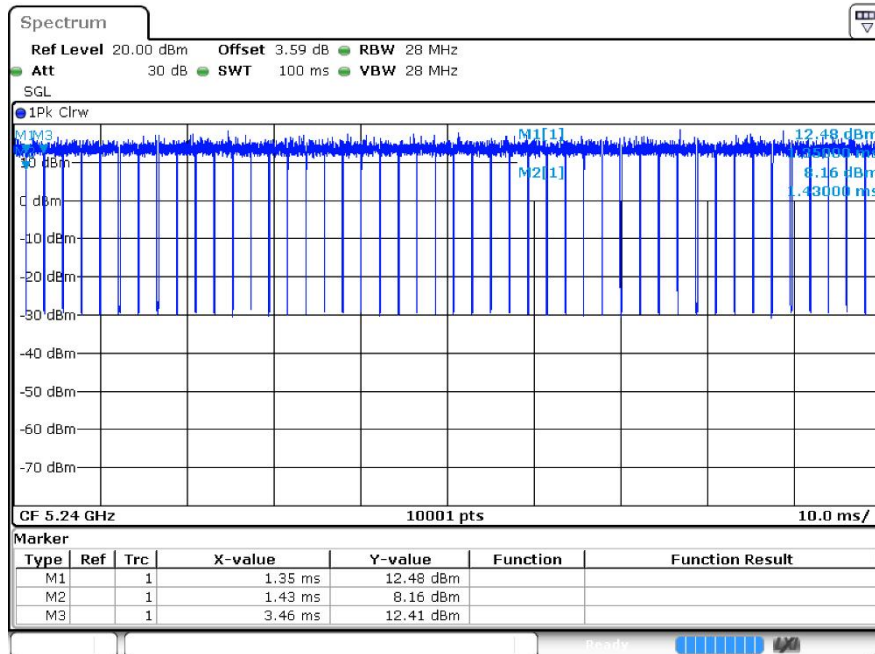
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	92.28	0.35	0.49
a	5200	Ant1	95.25	0.21	0.49
a	5240	Ant1	95.09	0.22	0.49
n20	5180	Ant1	94.58	0.24	0.53
n20	5200	Ant1	94.71	0.24	0.53
n20	5240	Ant1	95.27	0.21	0.53
n40	5190	Ant1	81.95	0.86	1.08
n40	5230	Ant1	86.27	0.64	1.06
ac20	5180	Ant1	93.01	0.31	0.53
ac20	5200	Ant1	100	0	0
ac20	5240	Ant1	95.53	0.2	0.52
ac40	5190	Ant1	82.23	0.85	1.06
ac40	5230	Ant1	86.38	0.64	1.08
ax20	5180	Ant1	92.13	0.36	0.68
ax20	5200	Ant1	93.41	0.3	0.69
ax20	5240	Ant1	93.97	0.27	0.68
ax40	5190	Ant1	77.82	1.09	1.32
ax40	5230	Ant1	82.41	0.84	1.32

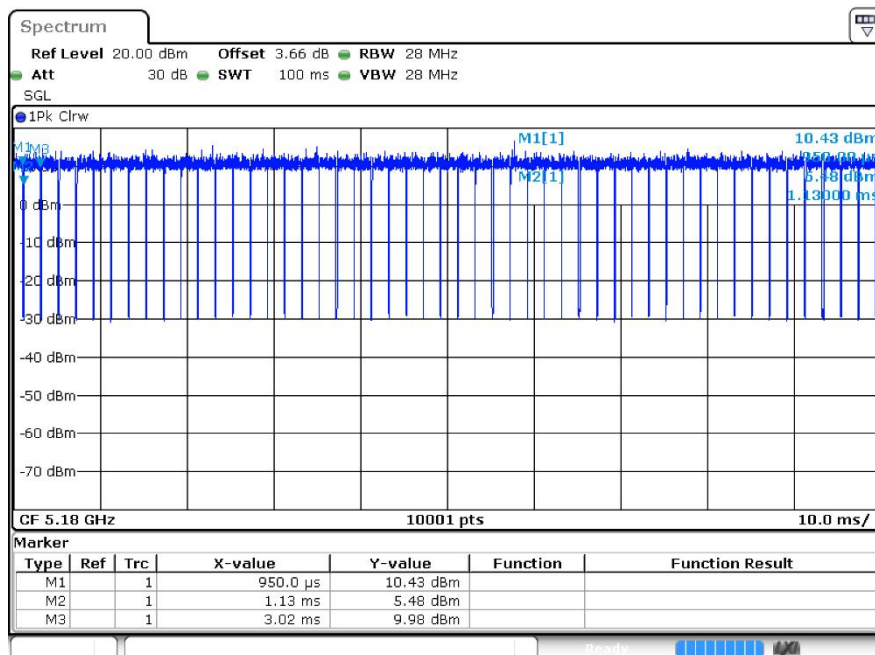
1.2 Test Graphs



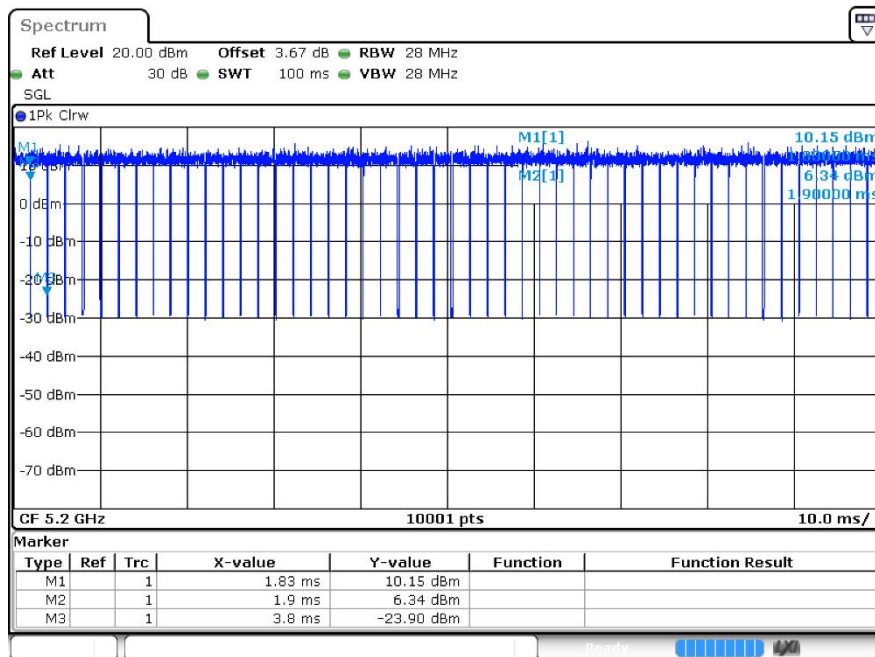
Duty Cycle a 5240MHz Ant1



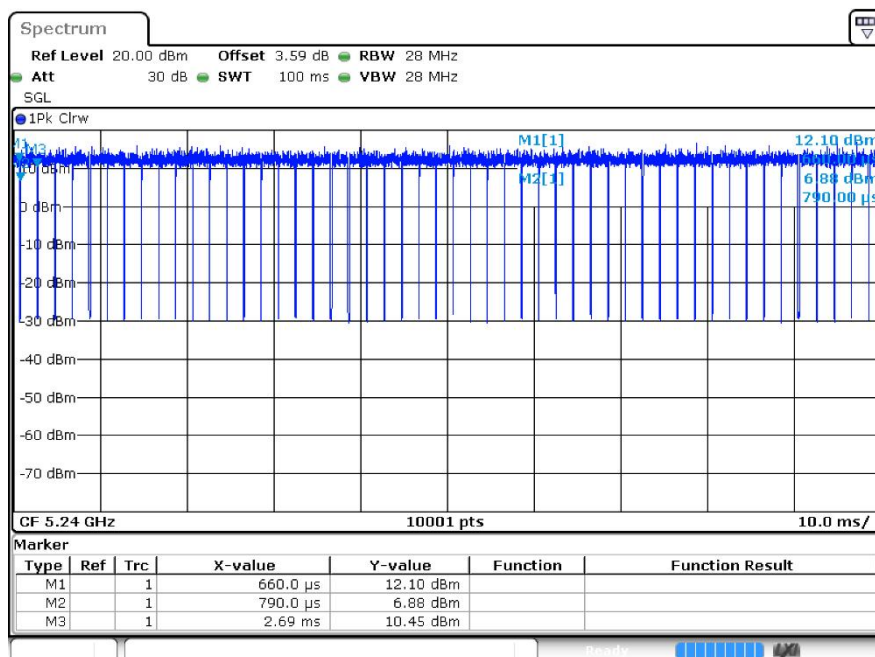
Duty Cycle n20 5180MHz Ant1



Duty Cycle a n20 5200MHz Ant1



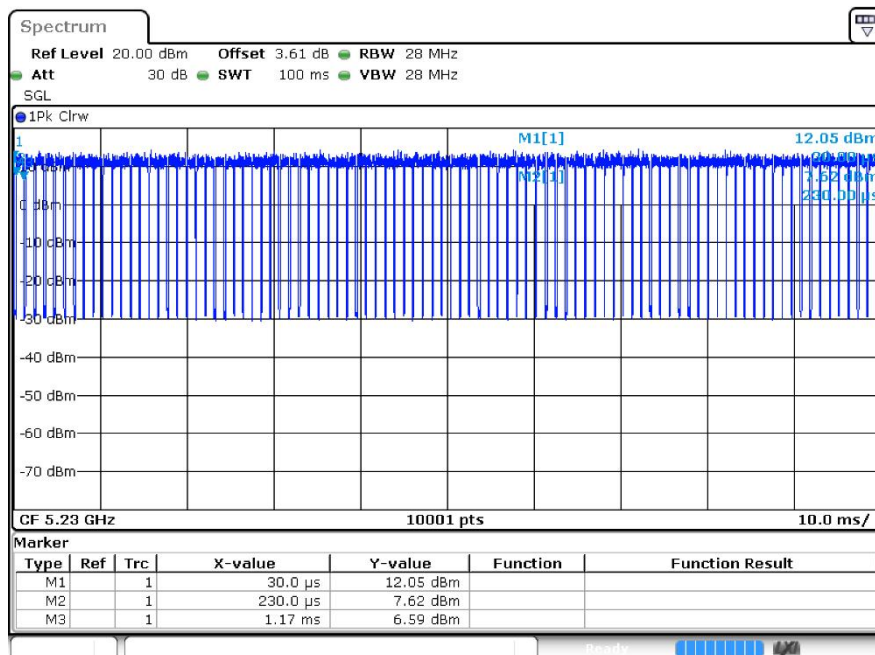
Duty Cycle n20 5240MHz Ant1



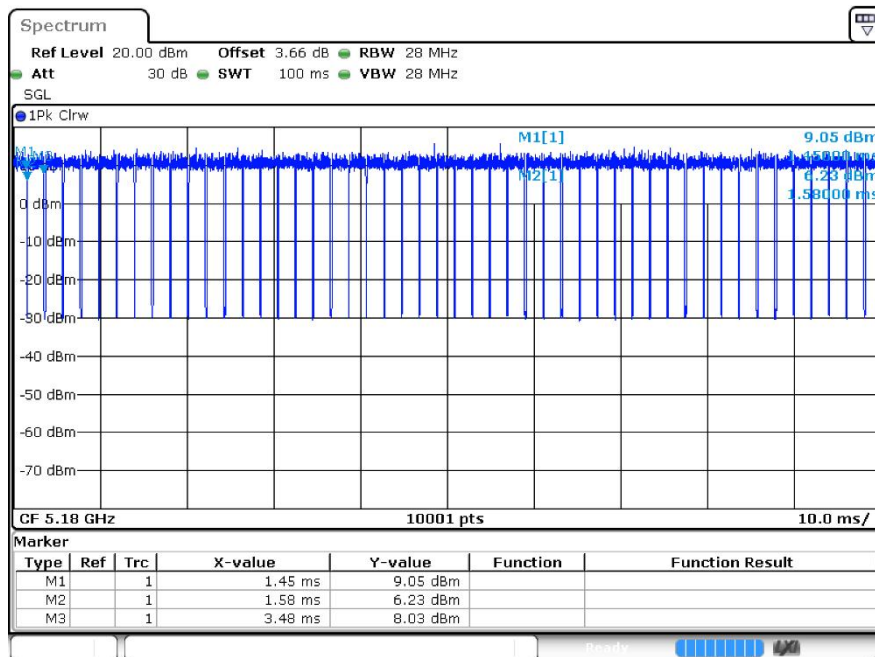
Duty Cycle n40 5190MHz Ant1



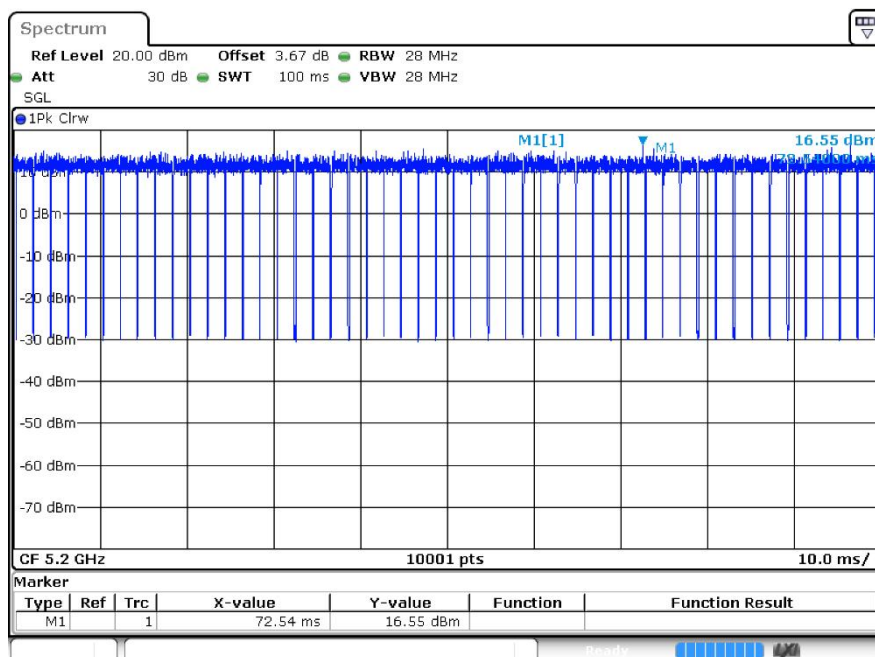
Duty Cycle n40 5230MHz Ant1



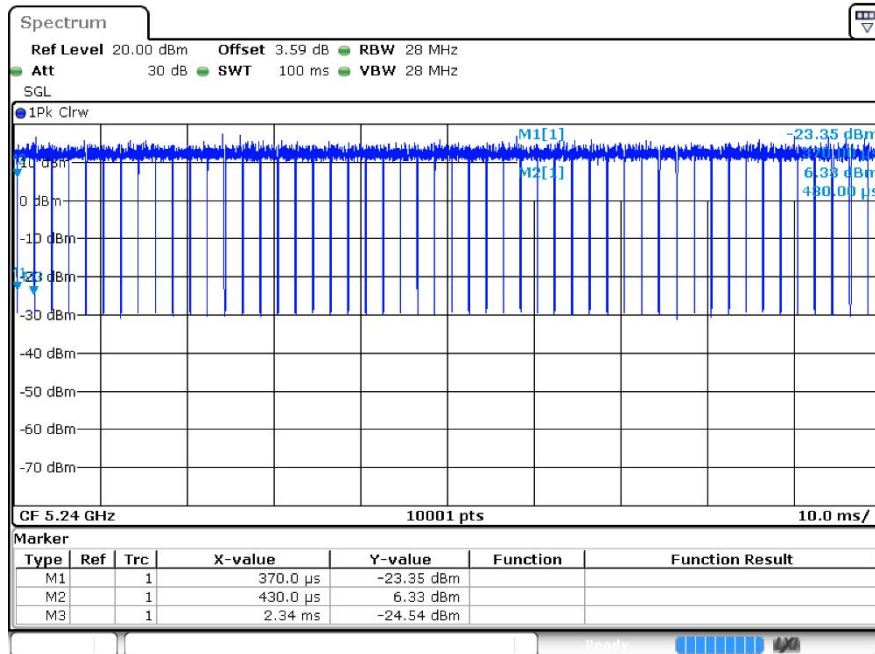
Duty Cycle ac20 5180MHz Ant1



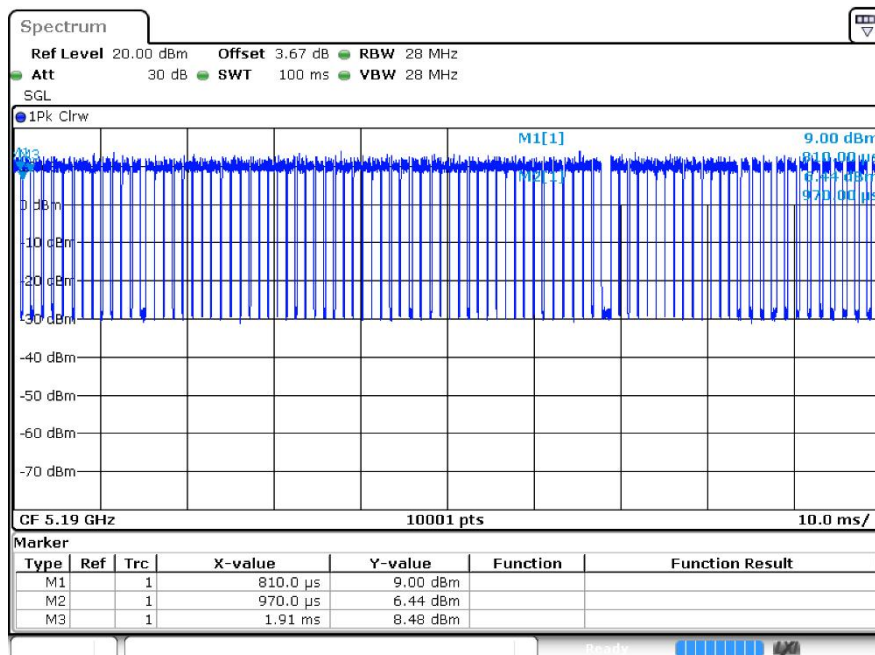
Duty Cycle ac20 5200MHz Ant1

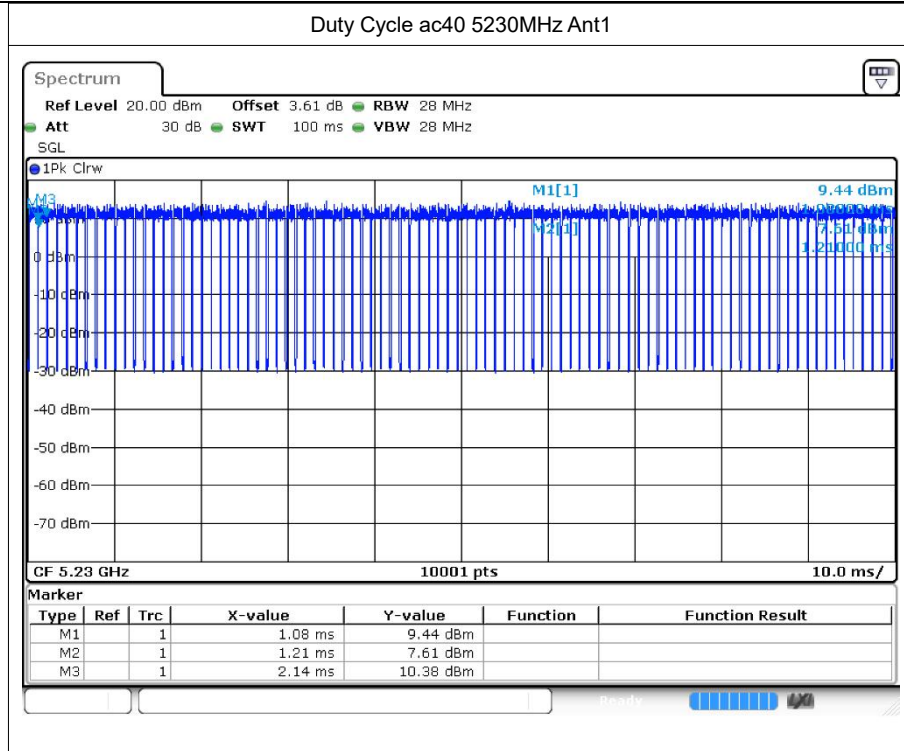


Duty Cycle ac20 5240MHz Ant1

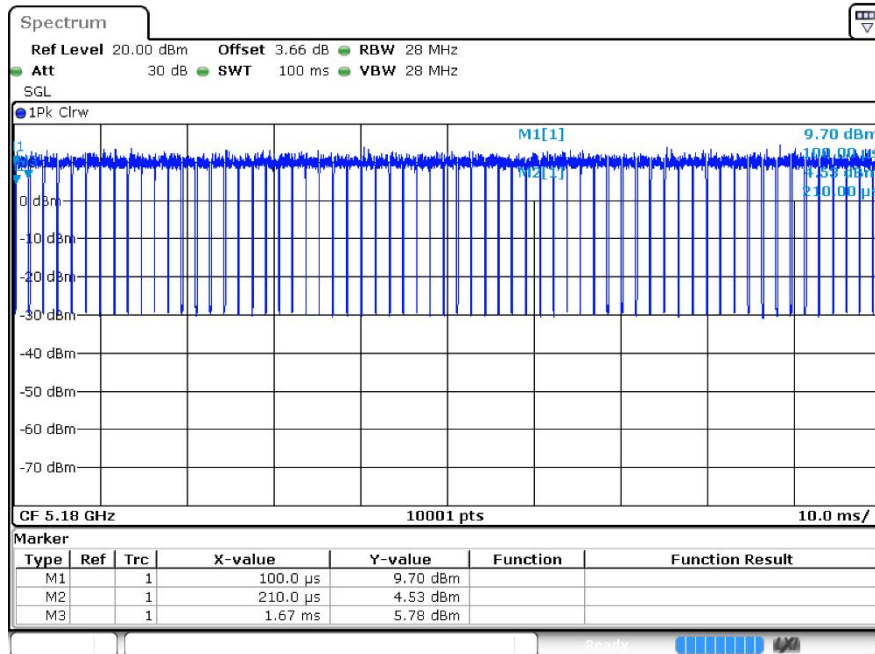


Duty Cycle ac40 5190MHz Ant1

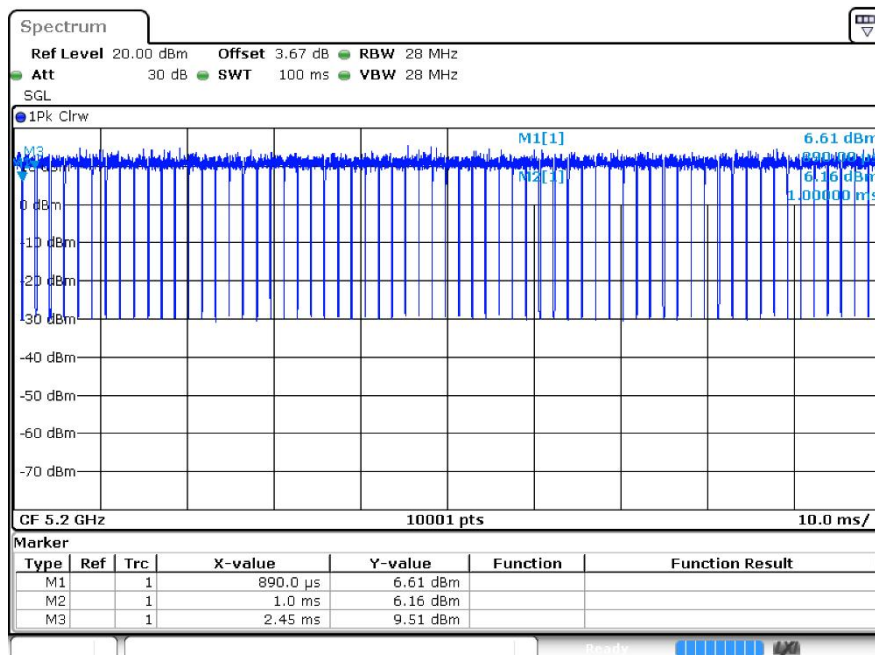




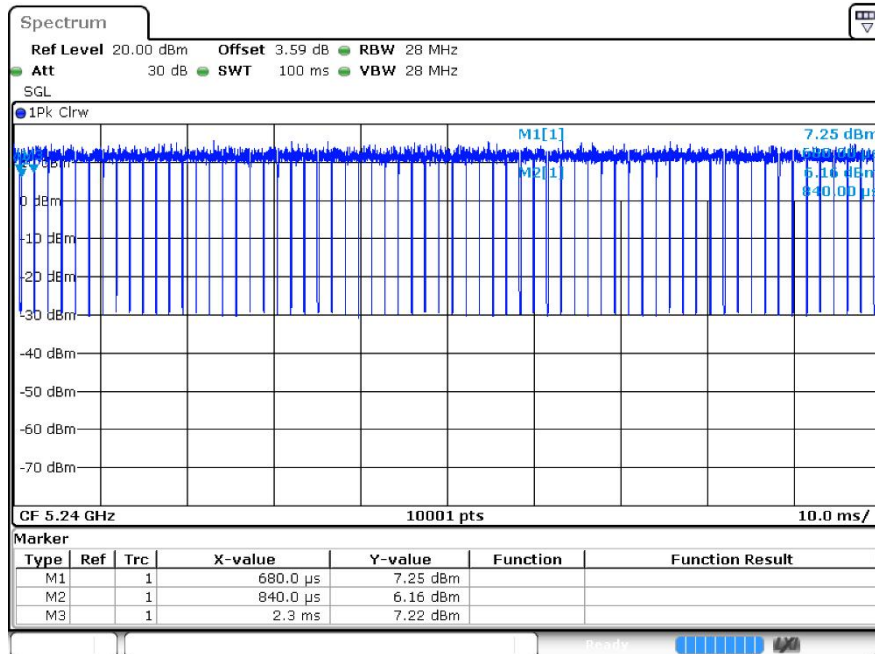
Duty Cycle ax20 5180MHz Ant1



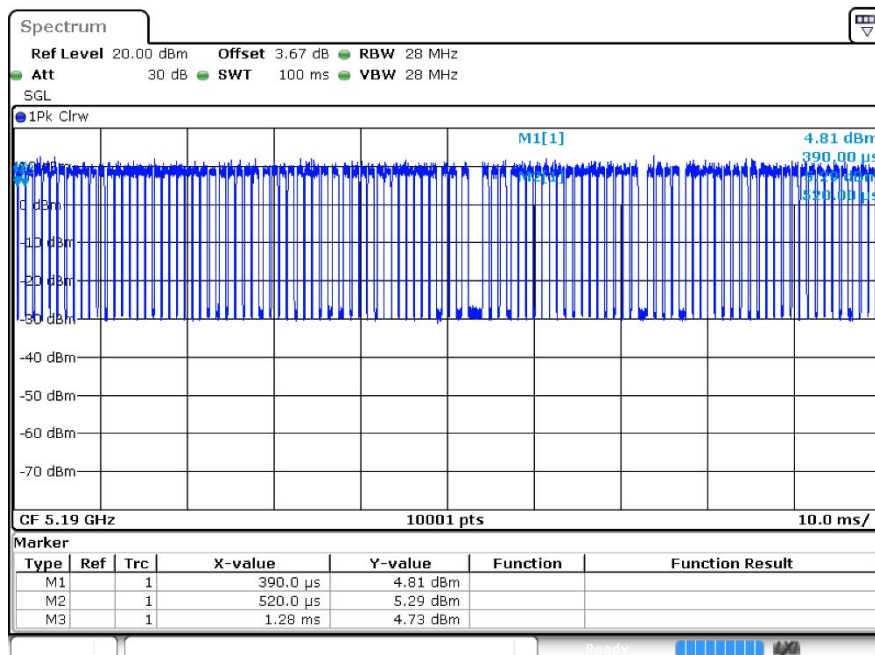
Duty Cycle ax20 5200MHz Ant1

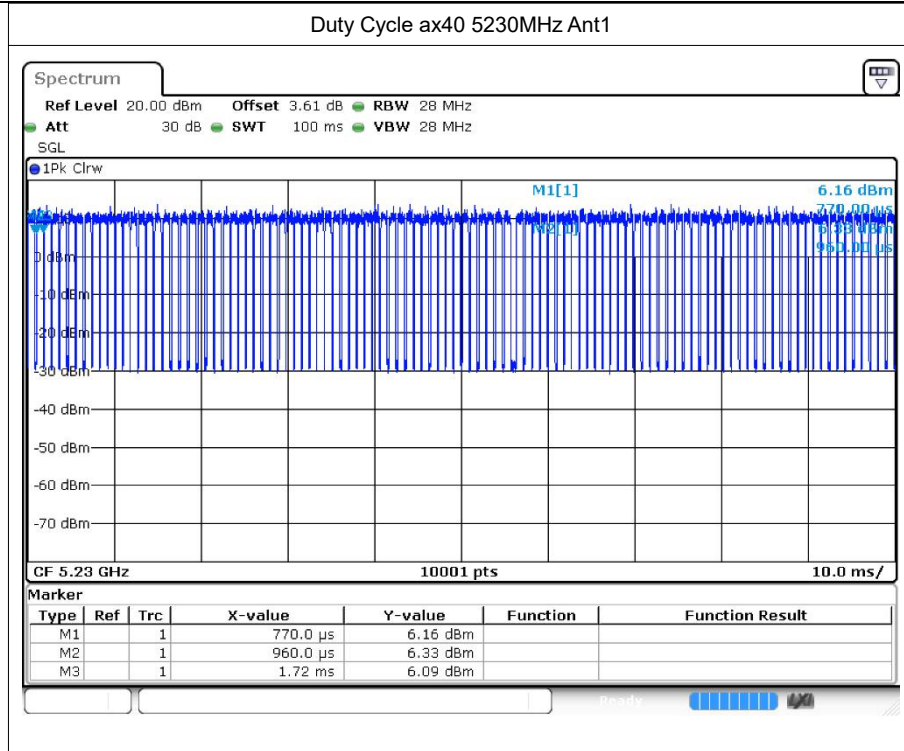


Duty Cycle ax20 5240MHz Ant1



Duty Cycle ax40 5190MHz Ant1





2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	6.89	24	Pass
a	5200	Ant1	7.70	24	Pass
a	5240	Ant1	8.29	24	Pass
n20	5180	Ant1	5.45	24	Pass
n20	5200	Ant1	6.47	24	Pass
n20	5240	Ant1	7.09	24	Pass
n40	5190	Ant1	5.52	24	Pass
n40	5230	Ant1	6.28	24	Pass
ac20	5180	Ant1	5.46	24	Pass
ac20	5200	Ant1	6.23	24	Pass
ac20	5240	Ant1	7.11	24	Pass
ac40	5190	Ant1	5.15	24	Pass
ac40	5230	Ant1	6.29	24	Pass
ax20	5180	Ant1	5.77	24	Pass
ax20	5200	Ant1	6.51	24	Pass
ax20	5240	Ant1	7.20	24	Pass
ax40	5190	Ant1	4.93	24	Pass
ax40	5230	Ant1	6.24	24	Pass

Note:

The duty factor has been compensated into the result.

3 -26dB Bandwidth

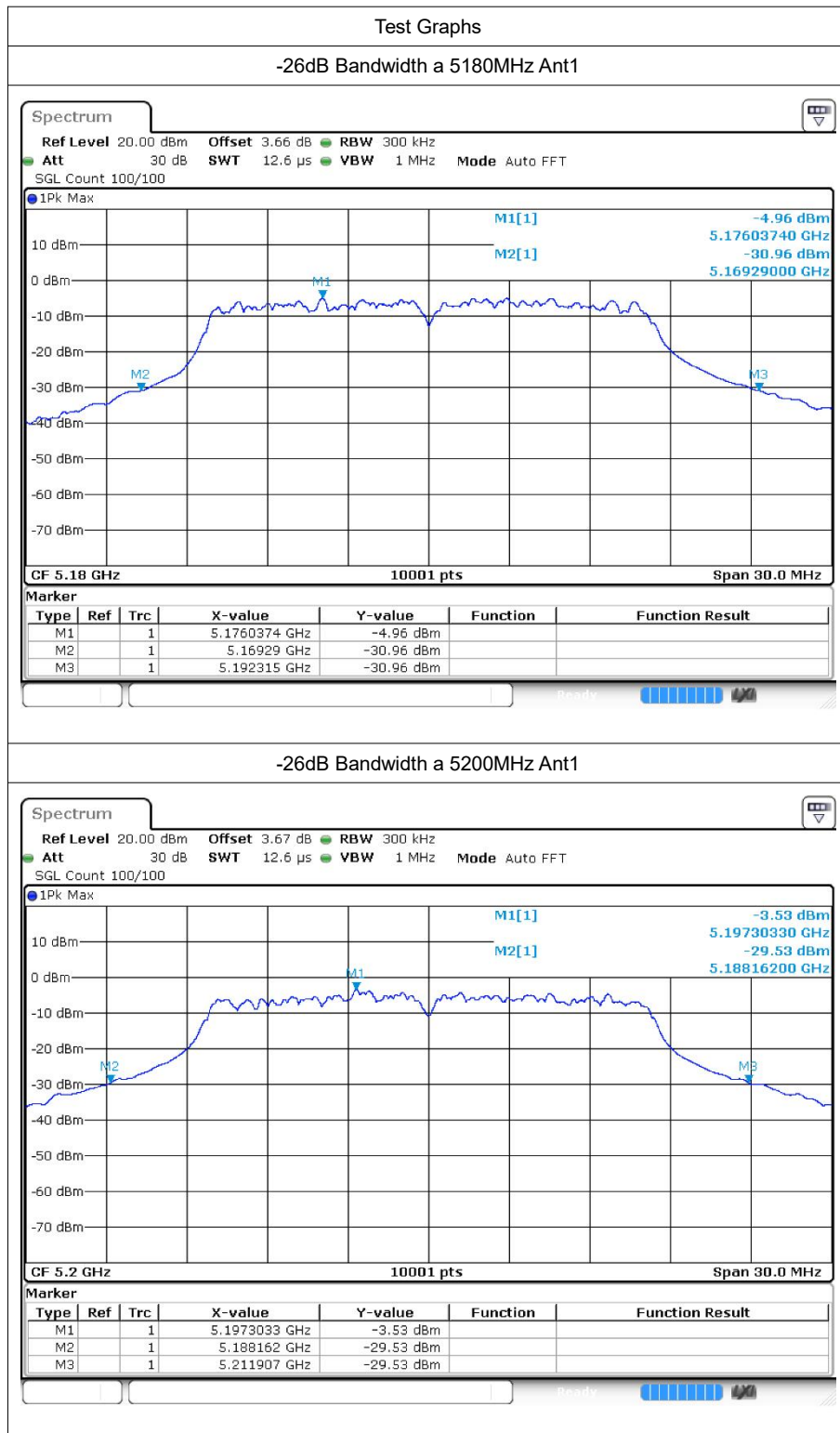
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	23.025	0.5	Pass
a	5200	Ant1	23.745	0.5	Pass
a	5240	Ant1	24.576	0.5	Pass
n20	5180	Ant1	23.826	0.5	Pass
n20	5200	Ant1	24.462	0.5	Pass
n20	5240	Ant1	25.152	0.5	Pass
n40	5190	Ant1	45.102	0.5	Pass
n40	5230	Ant1	42.426	0.5	Pass
ac20	5180	Ant1	24.384	0.5	Pass
ac20	5200	Ant1	25.365	0.5	Pass
ac20	5240	Ant1	26.07	0.5	Pass
ac40	5190	Ant1	41.928	0.5	Pass
ac40	5230	Ant1	43.392	0.5	Pass
ax20	5180	Ant1	22.773	0.5	Pass
ax20	5200	Ant1	25.224	0.5	Pass
ax20	5240	Ant1	23.436	0.5	Pass
ax40	5190	Ant1	42.774	0.5	Pass
ax40	5230	Ant1	43.2	0.5	Pass

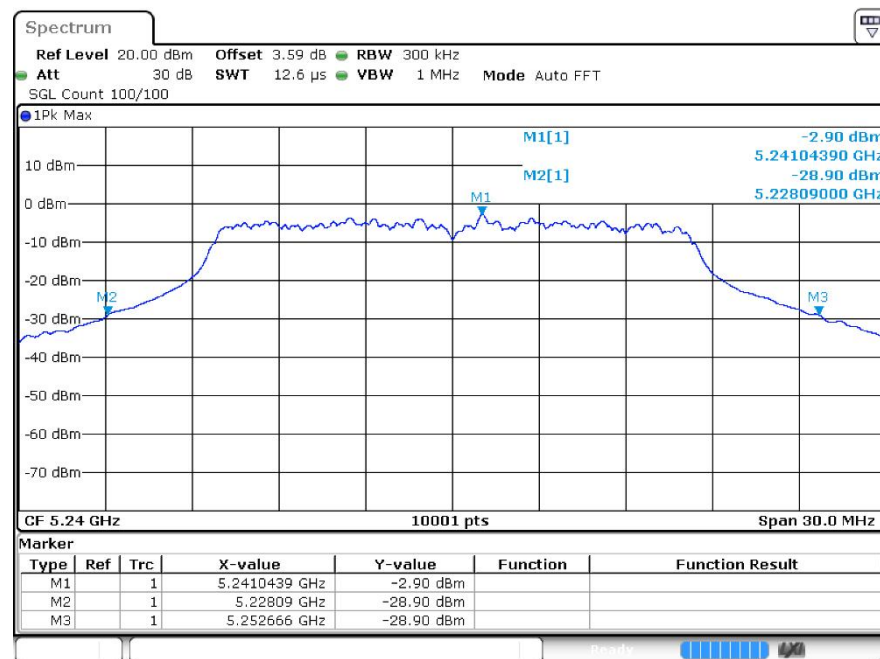
Note:

The duty factor has been compensated into the result.

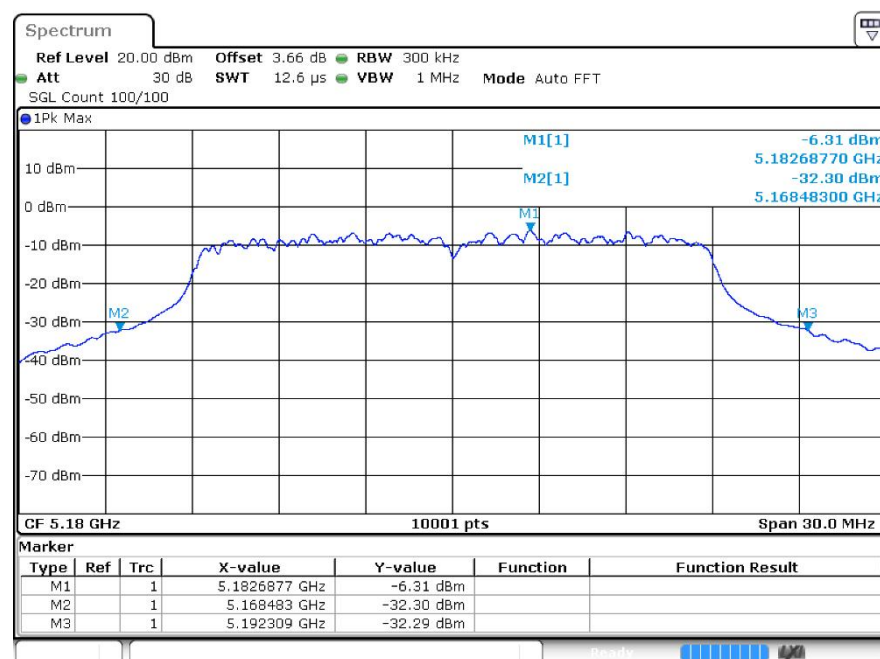
3.2 Test Graphs



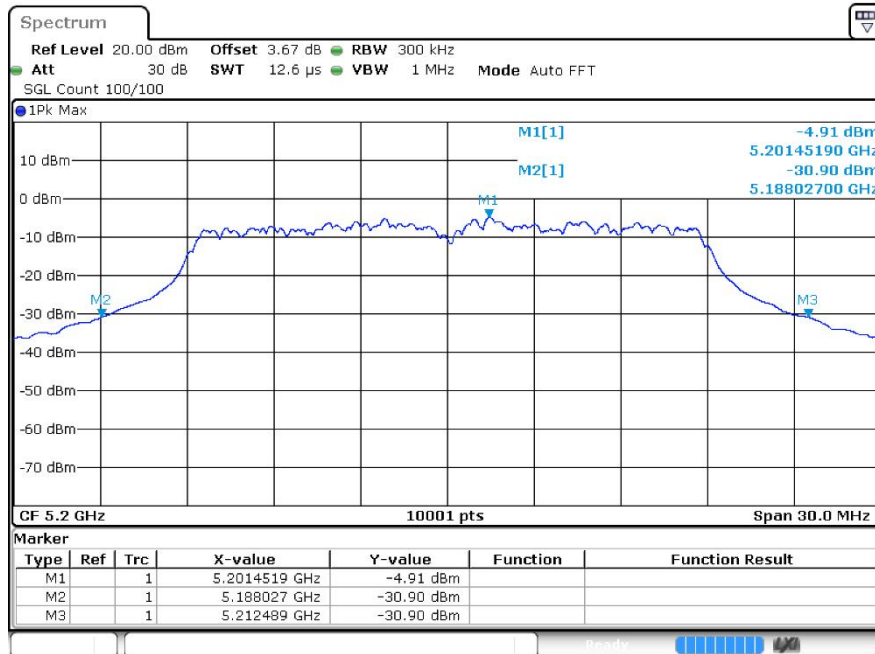
-26dB Bandwidth a 5240MHz Ant1



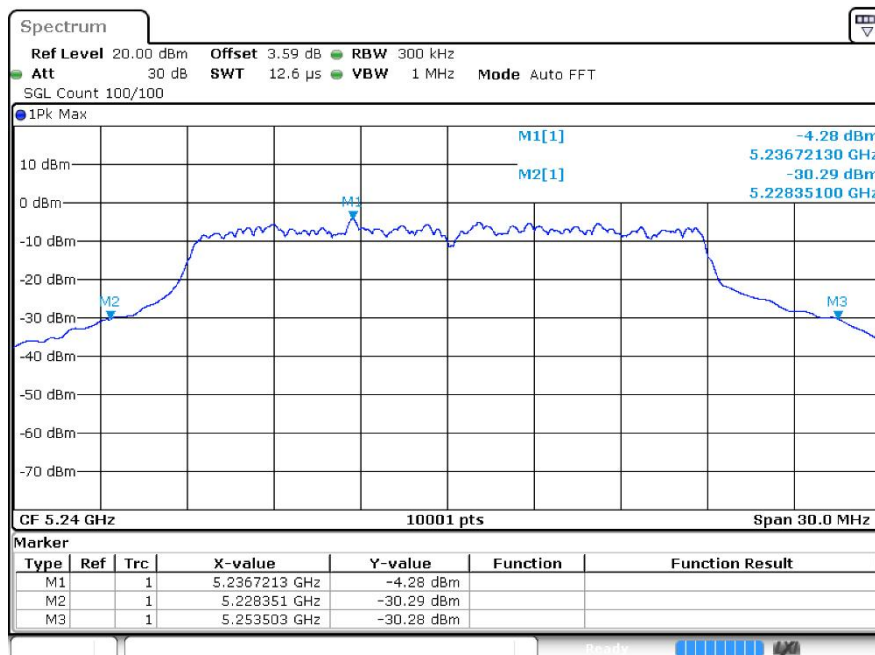
-26dB Bandwidth n20 5180MHz Ant1



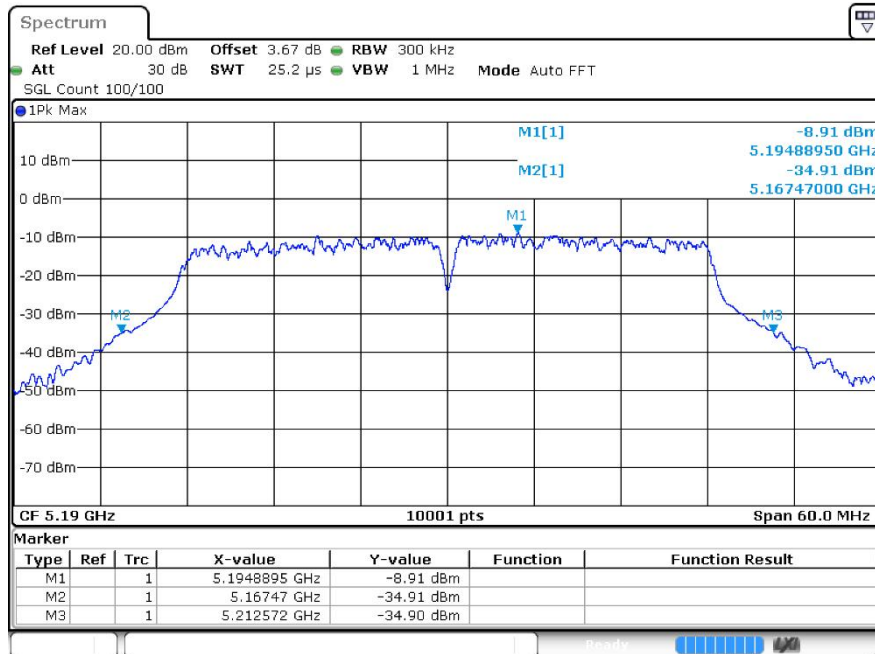
-26dB Bandwidth n20 5200MHz Ant1



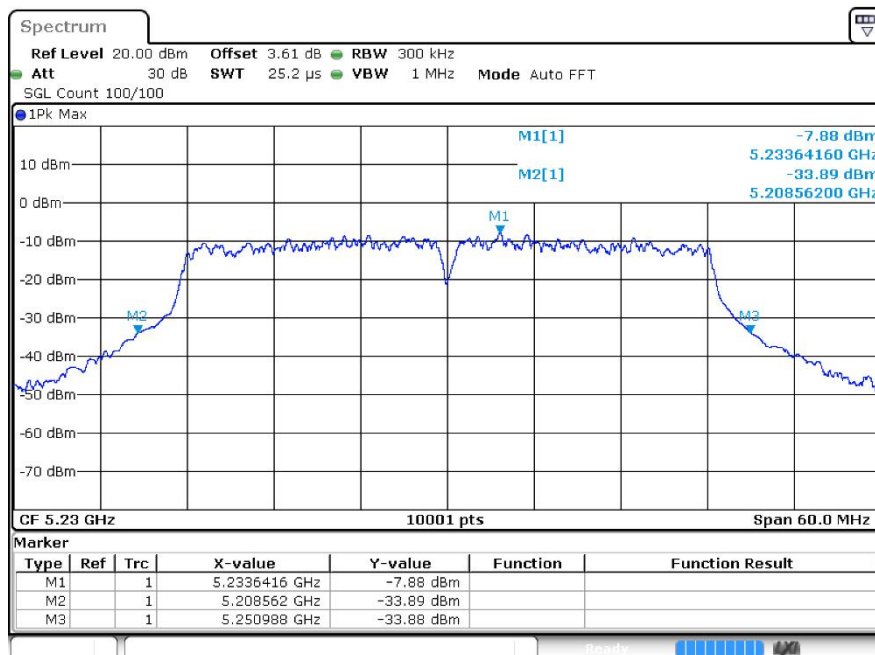
-26dB Bandwidth n20 5240MHz Ant1



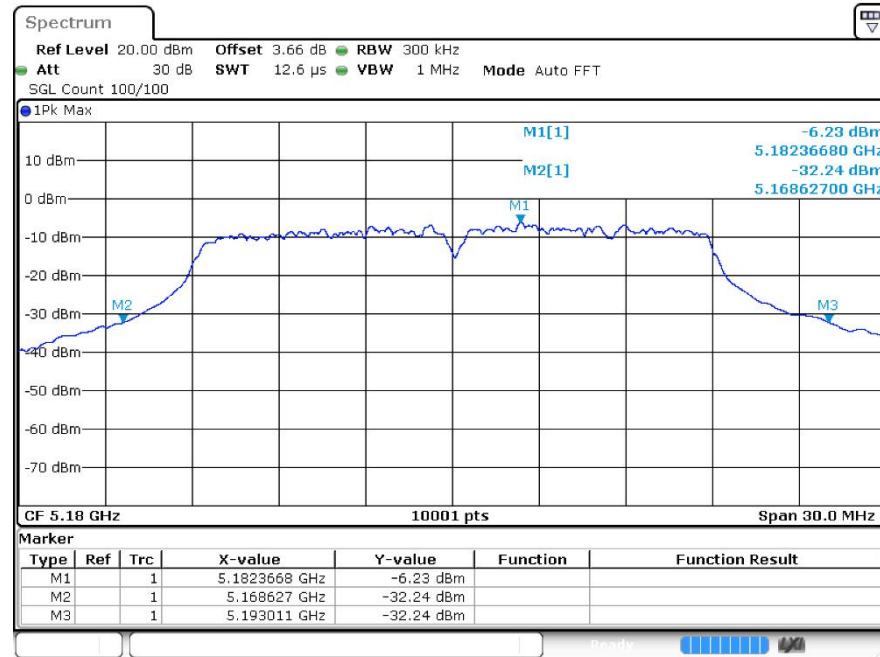
-26dB Bandwidth n40 5190MHz Ant1



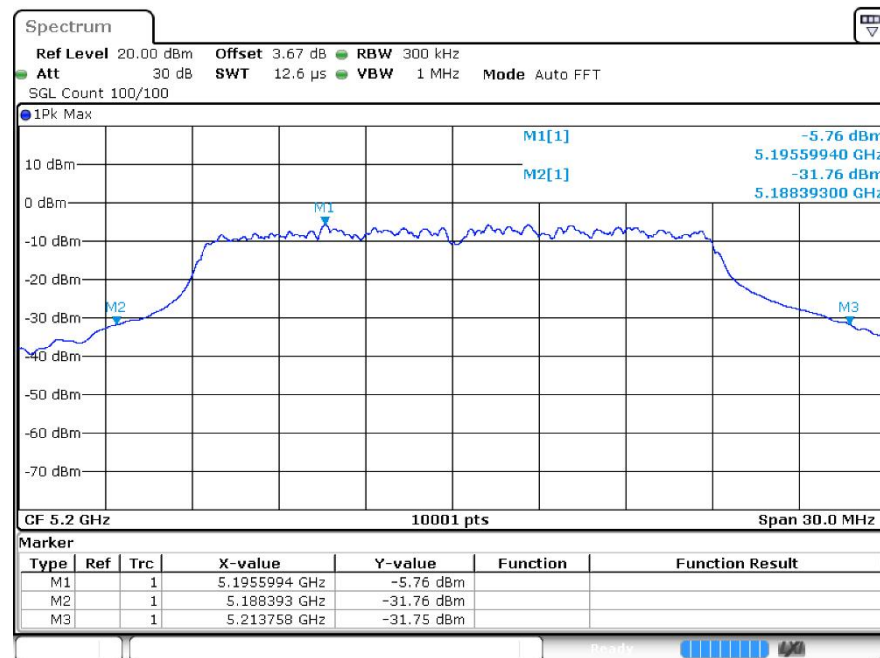
-26dB Bandwidth n40 5230MHz Ant1



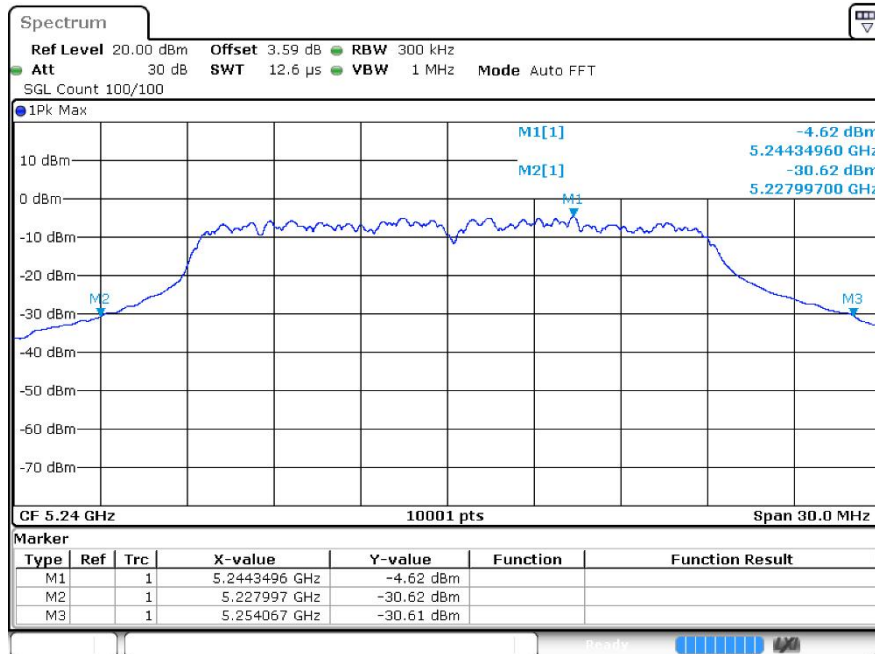
-26dB Bandwidth ac20 5180MHz Ant1



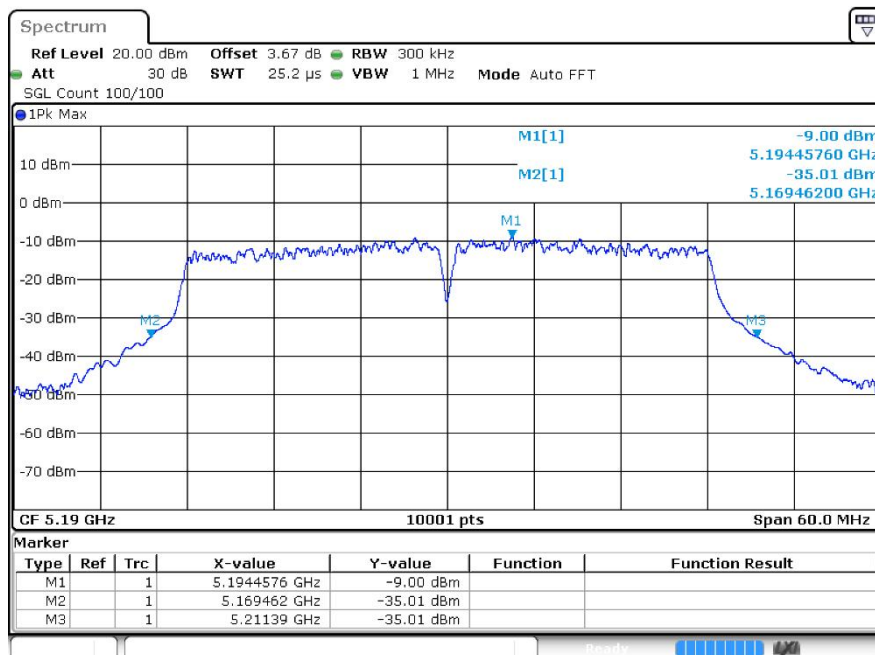
-26dB Bandwidth ac20 5200MHz Ant1

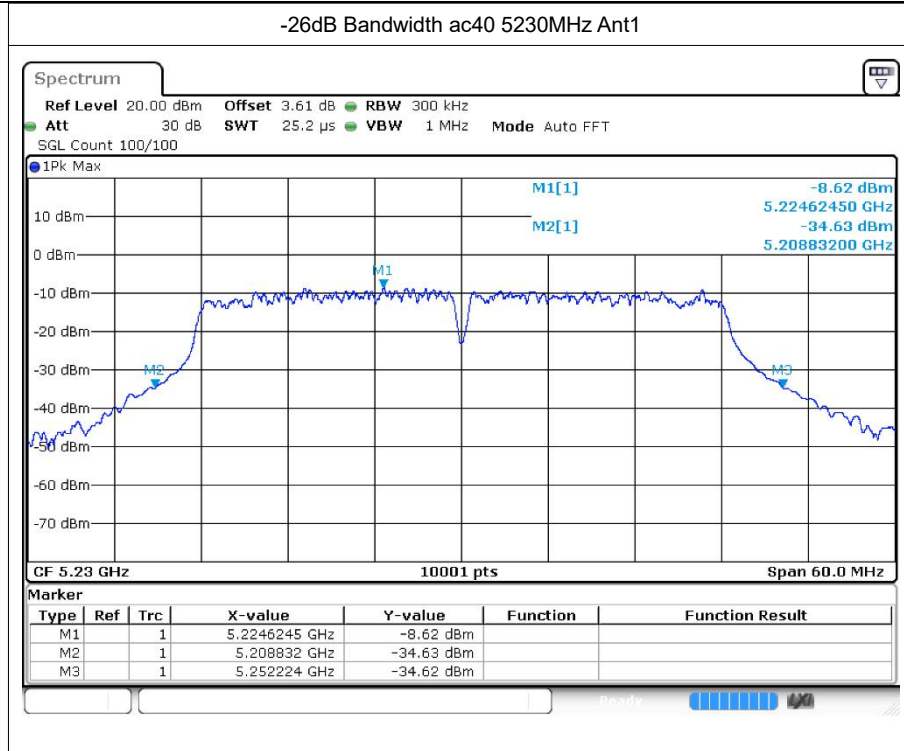


-26dB Bandwidth ac20 5240MHz Ant1

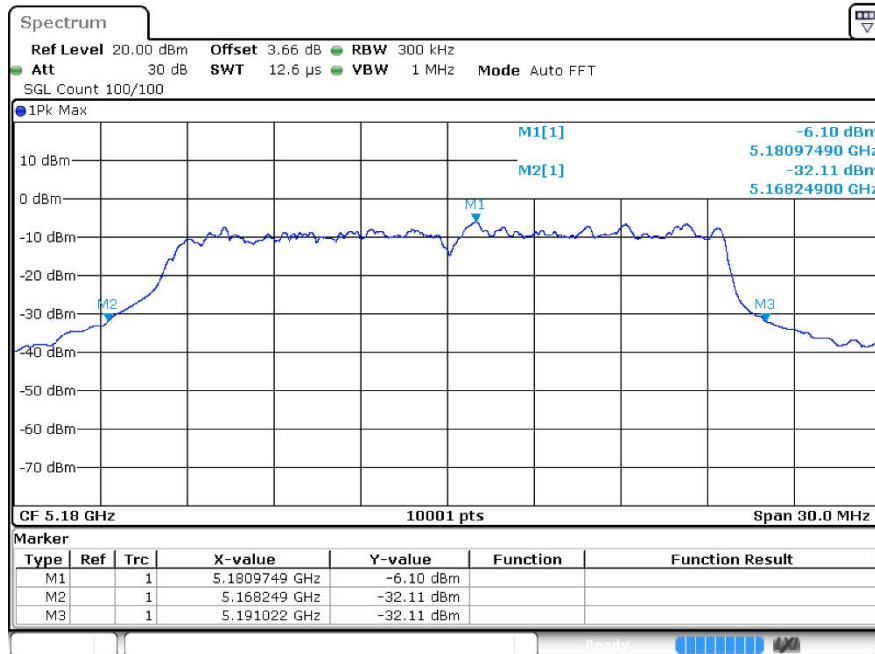


-26dB Bandwidth ac40 5190MHz Ant1

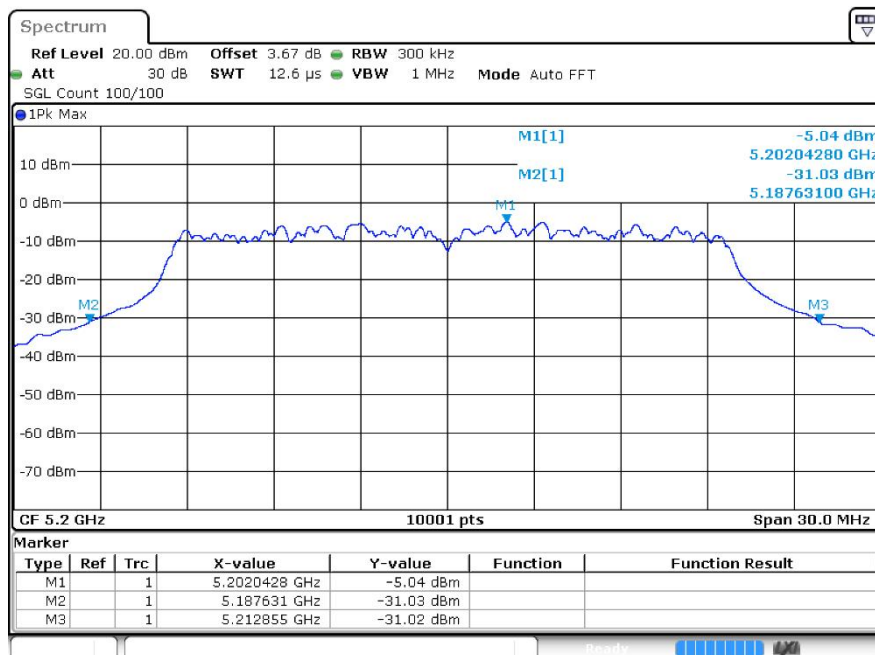




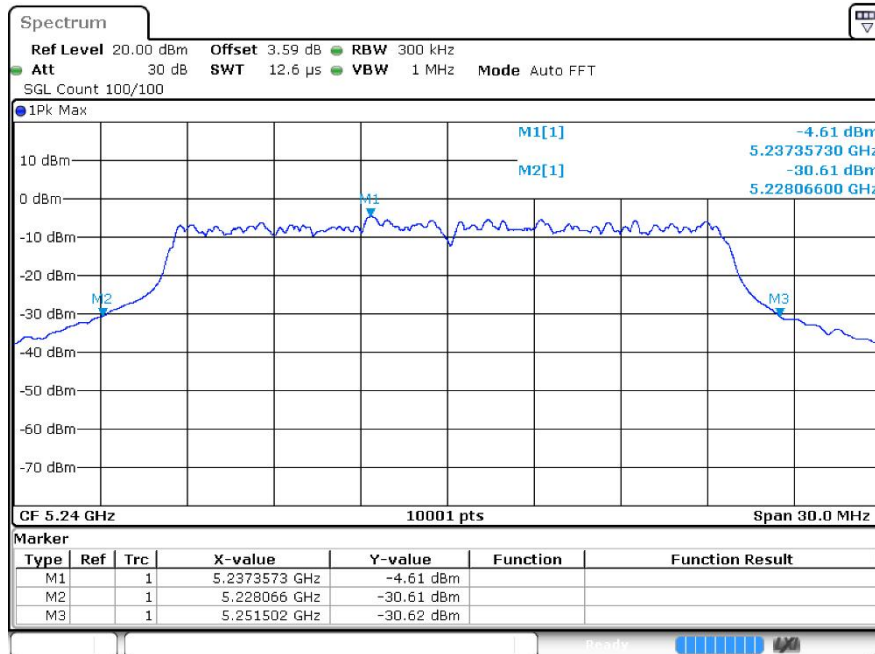
-26dB Bandwidth ax20 5180MHz Ant1



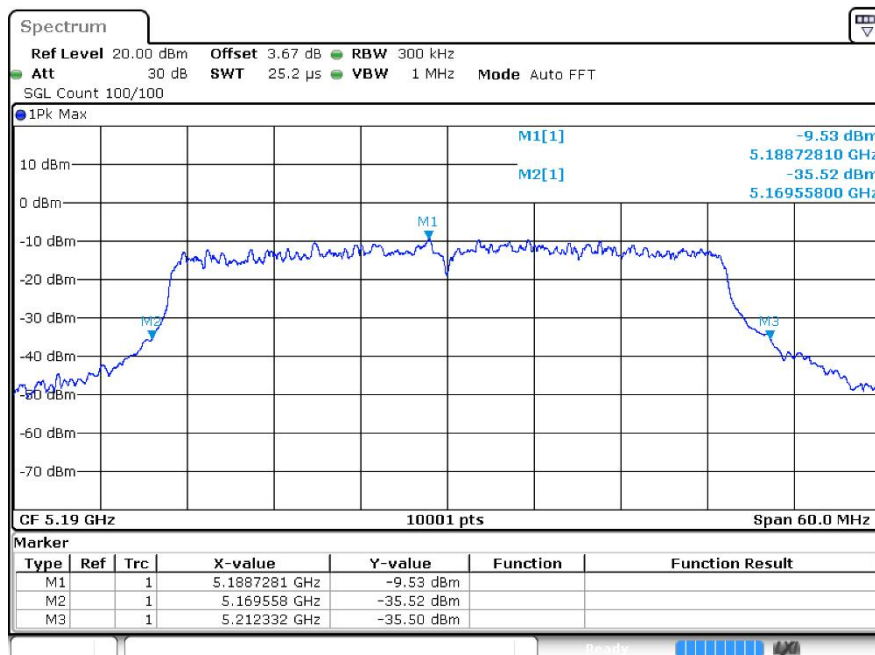
-26dB Bandwidth ax20 5200MHz Ant1

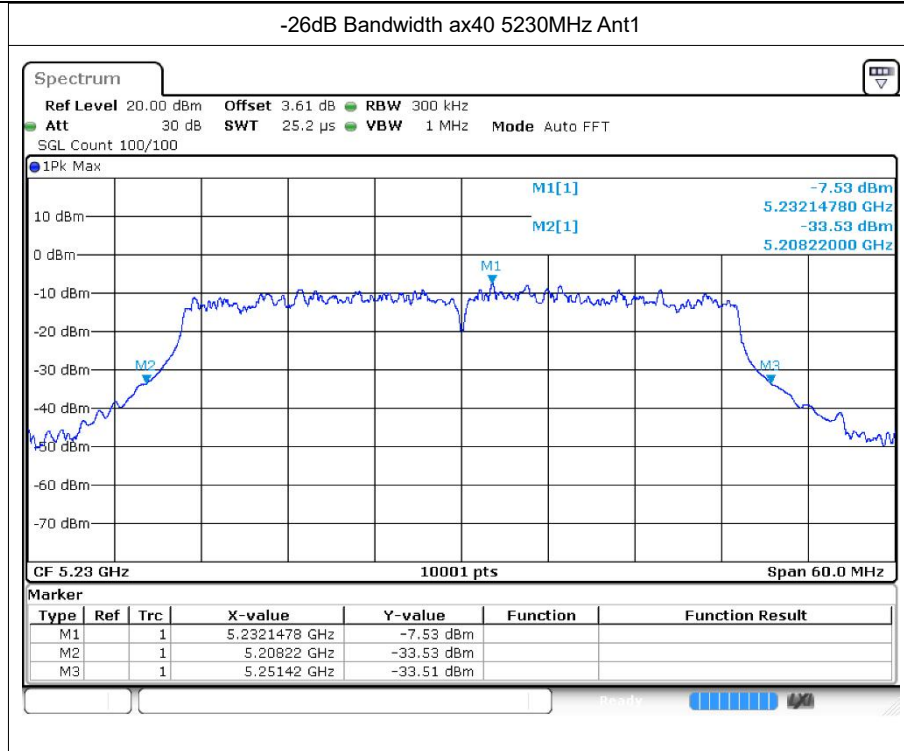


-26dB Bandwidth ax20 5240MHz Ant1



-26dB Bandwidth ax40 5190MHz Ant1





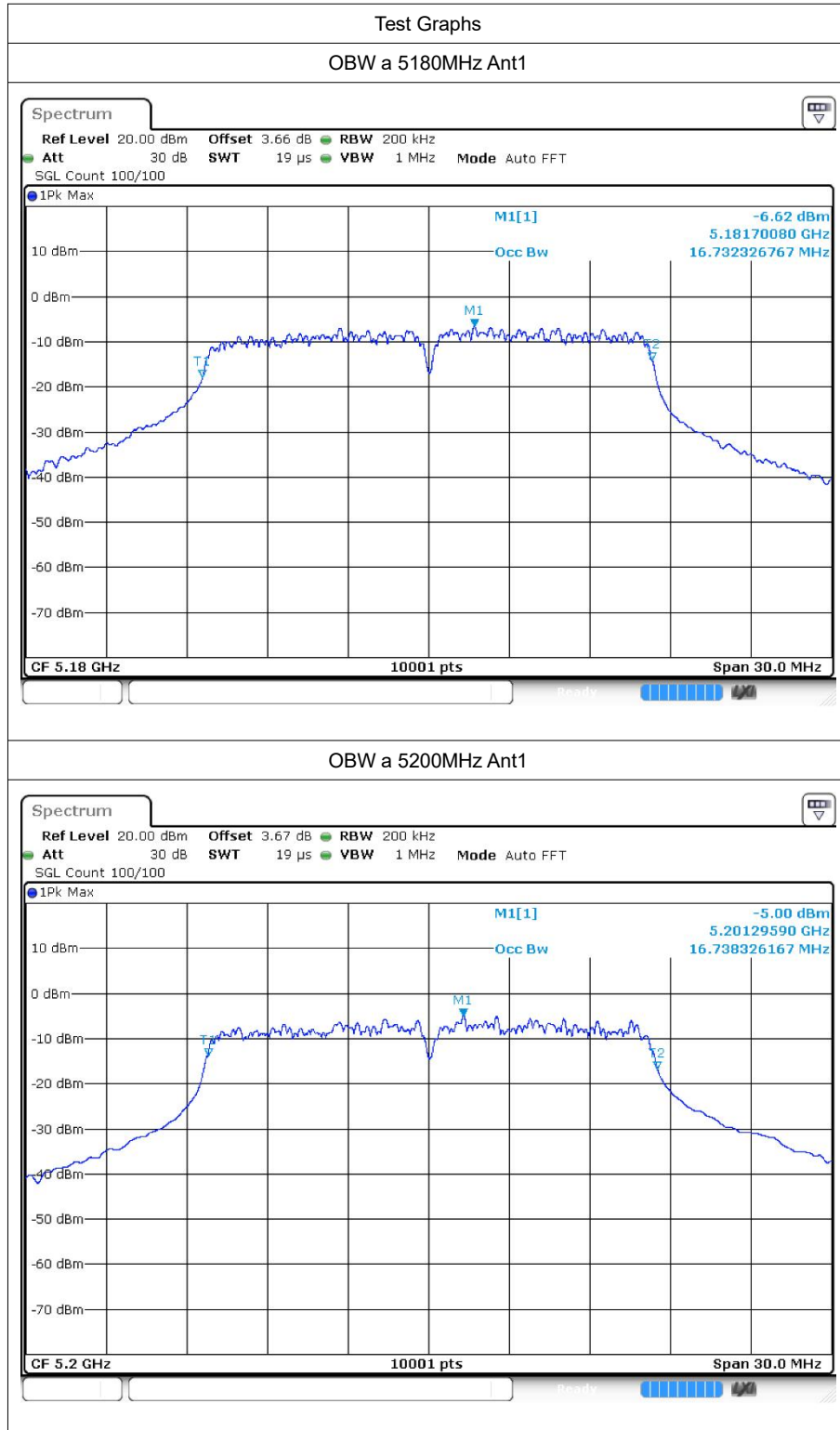


4 Occupied Channel Bandwidth

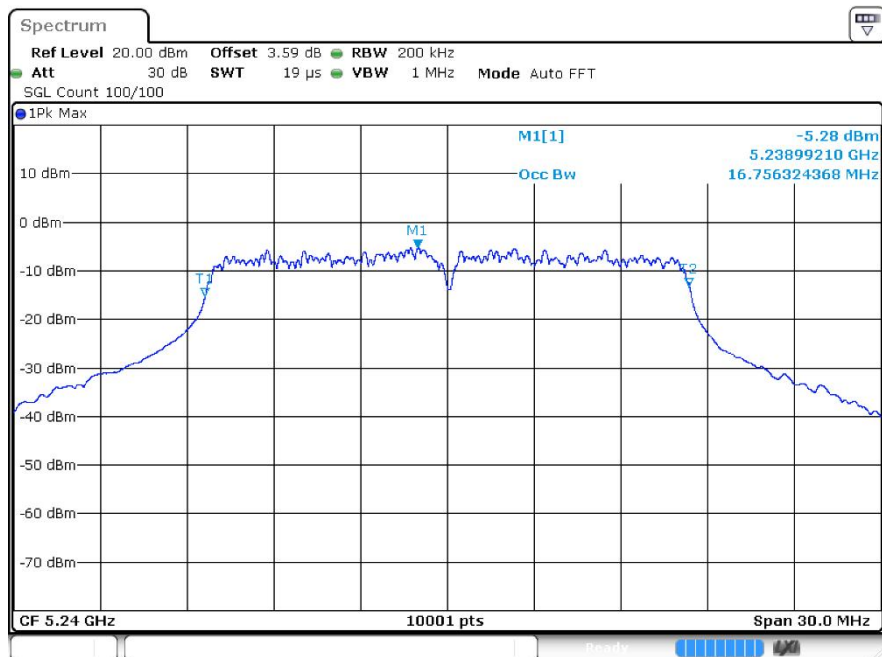
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.732
a	5200	Ant1	16.738
a	5240	Ant1	16.756
n20	5180	Ant1	17.926
n20	5200	Ant1	17.842
n20	5240	Ant1	18.058
n40	5190	Ant1	36.482
n40	5230	Ant1	37.01
ac20	5180	Ant1	17.965
ac20	5200	Ant1	17.743
ac20	5240	Ant1	17.809
ac40	5190	Ant1	36.506
ac40	5230	Ant1	36.344
ax20	5180	Ant1	19.159
ax20	5200	Ant1	19.018
ax20	5240	Ant1	19.006
ax40	5190	Ant1	37.904
ax40	5230	Ant1	37.724

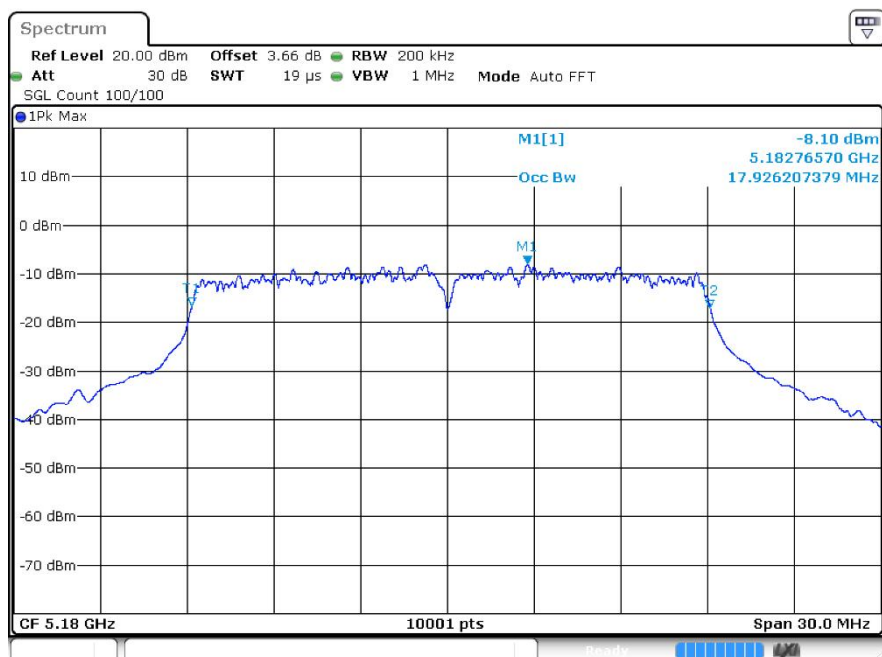
4.2 Test Graphs



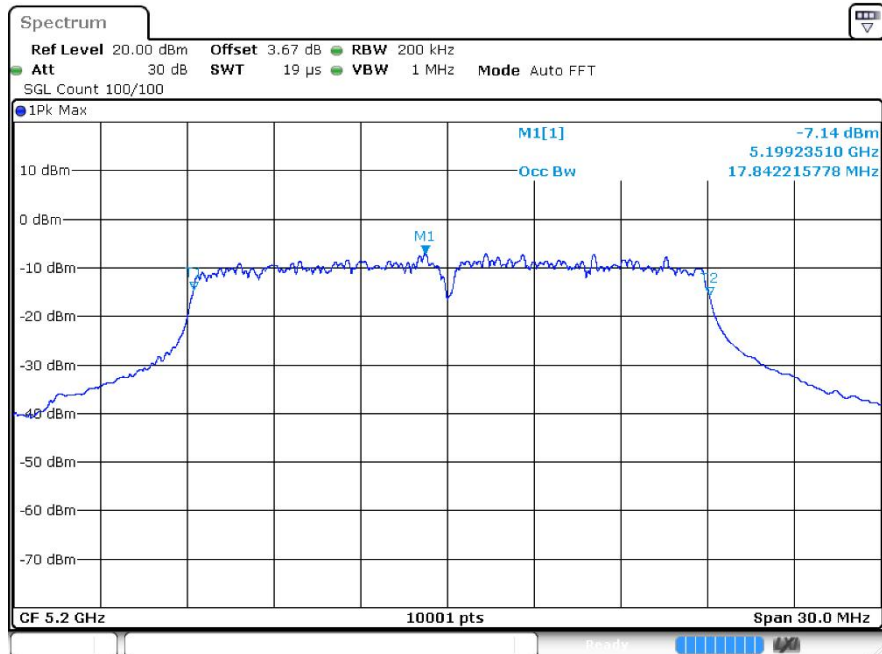
OBW a 5240MHz Ant1



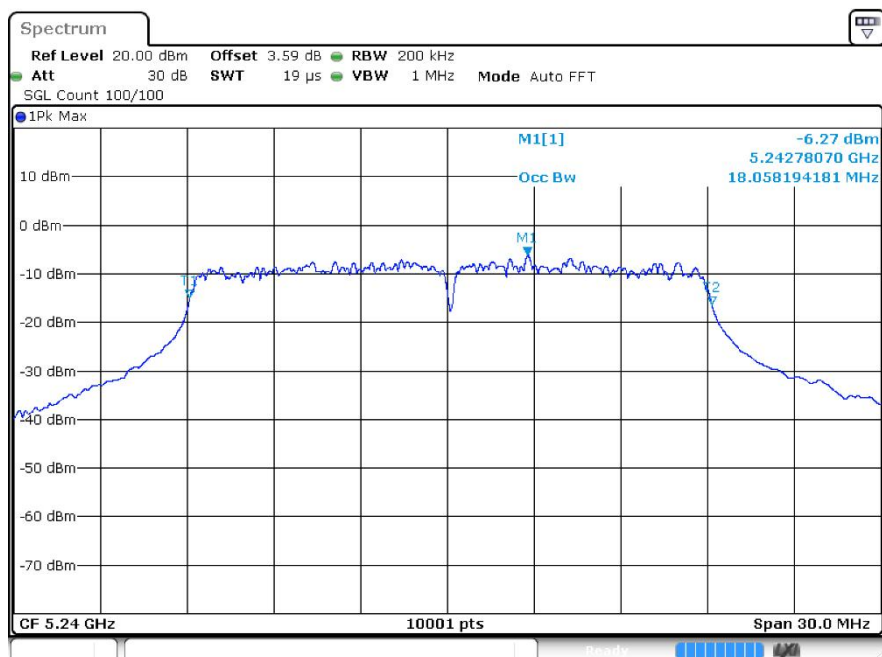
OBW n20 5180MHz Ant1



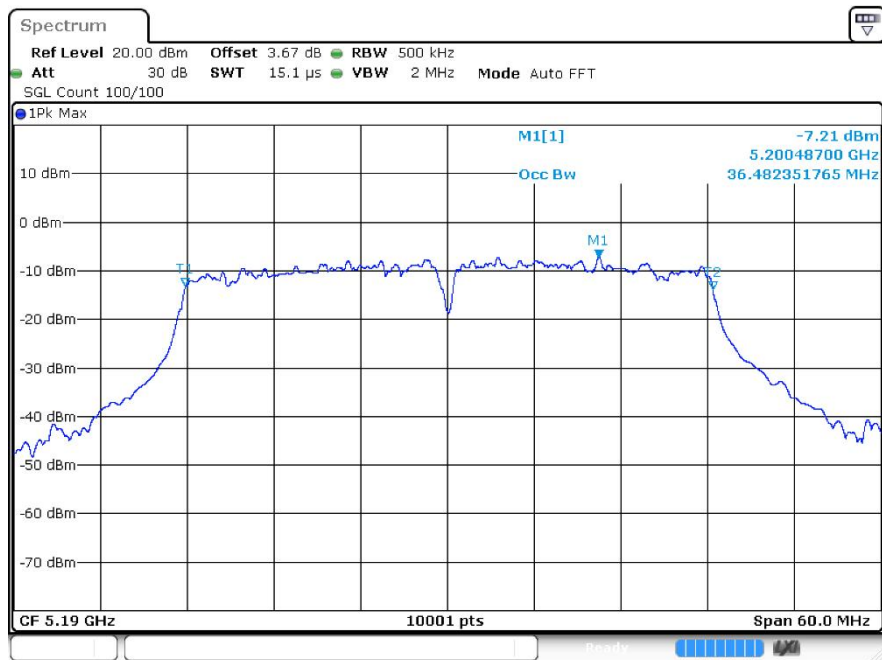
OBW n20 5200MHz Ant1



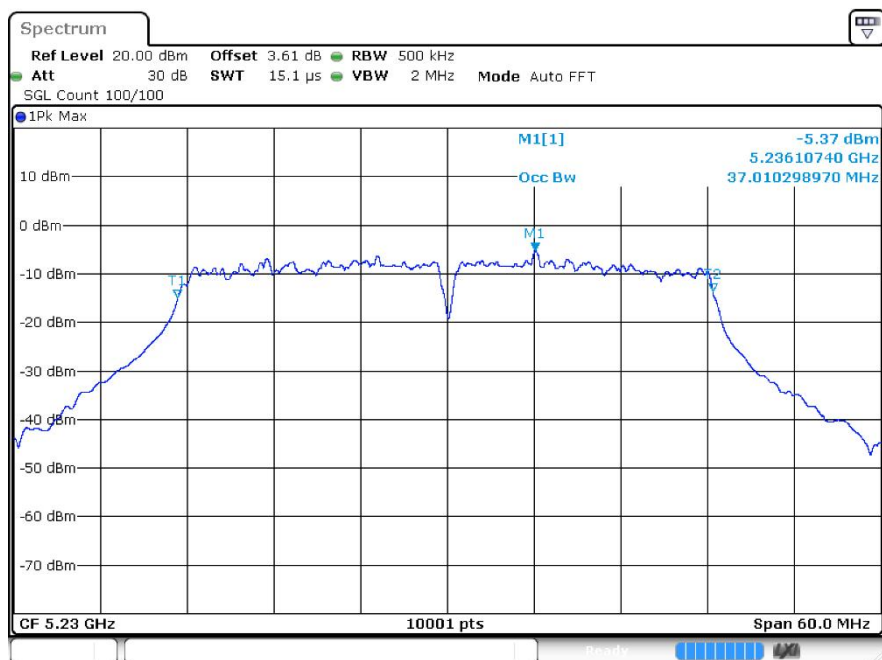
OBW n20 5240MHz Ant1



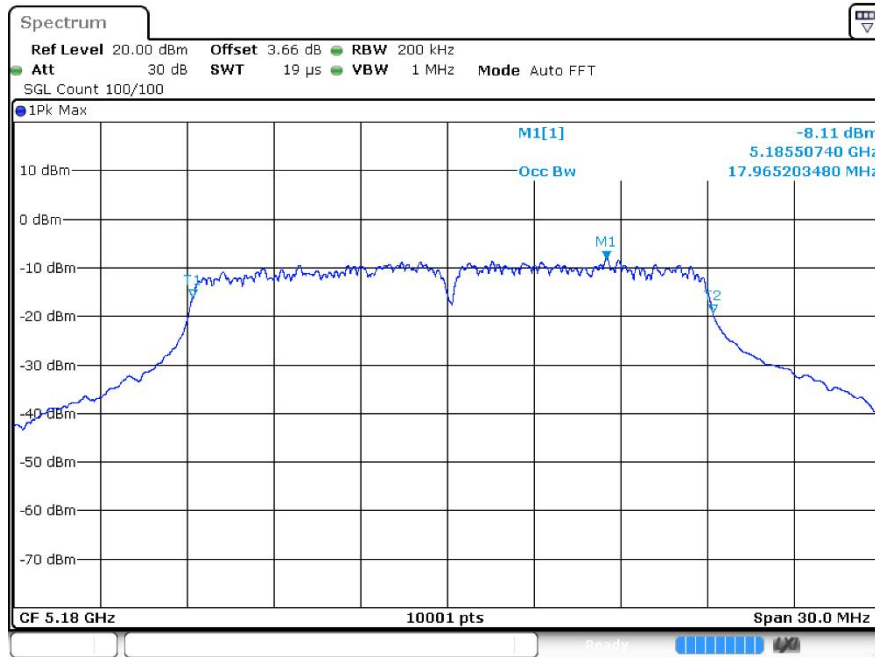
OBW n40 5190MHz Ant1



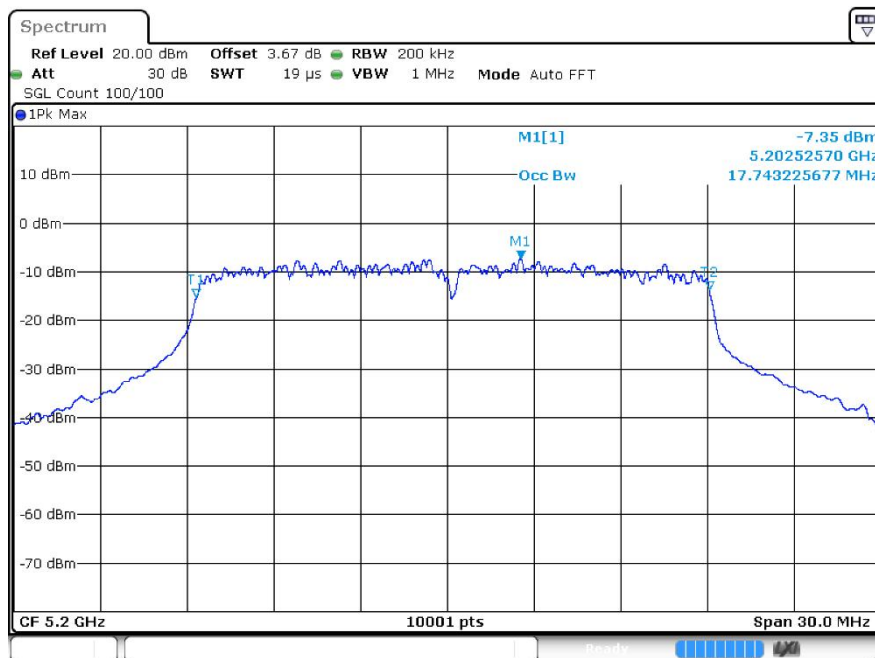
OBW n40 5230MHz Ant1



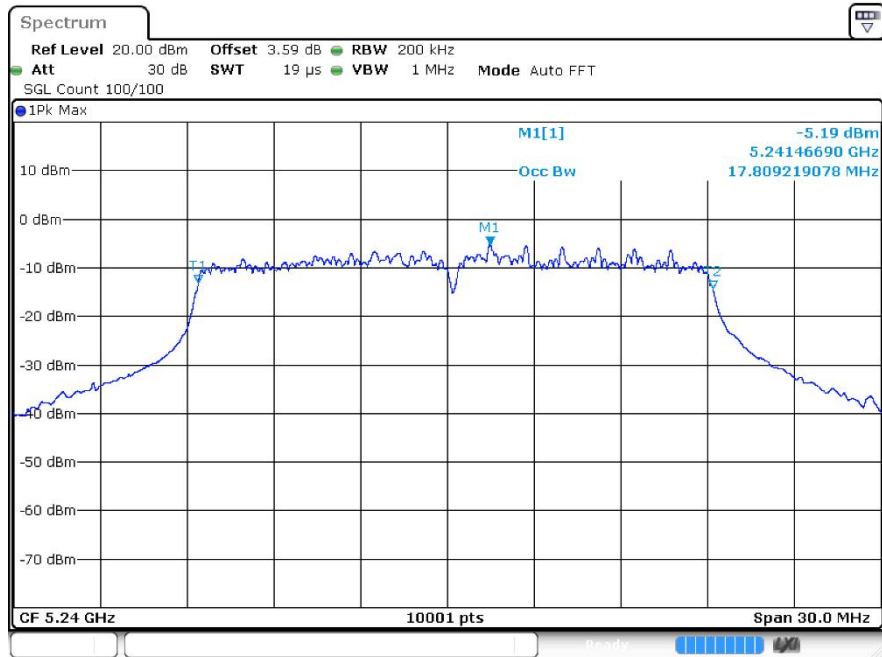
OBW ac20 5180MHz Ant1



OBW ac20 5200MHz Ant1



OBW ac20 5240MHz Ant1



OBW ac40 5190MHz Ant1

