



Appendix D

RF Test Data for B1WIFI(Conducted Measurement)

Product Name: Wireless screen receiver

Trade Mark: Leaderhub

Test Model: T0

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
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	-26dB 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
8	Restrict Band	48
8.1	Test Result	48
8.2	Test Graphs	50



1 Duty Cycle

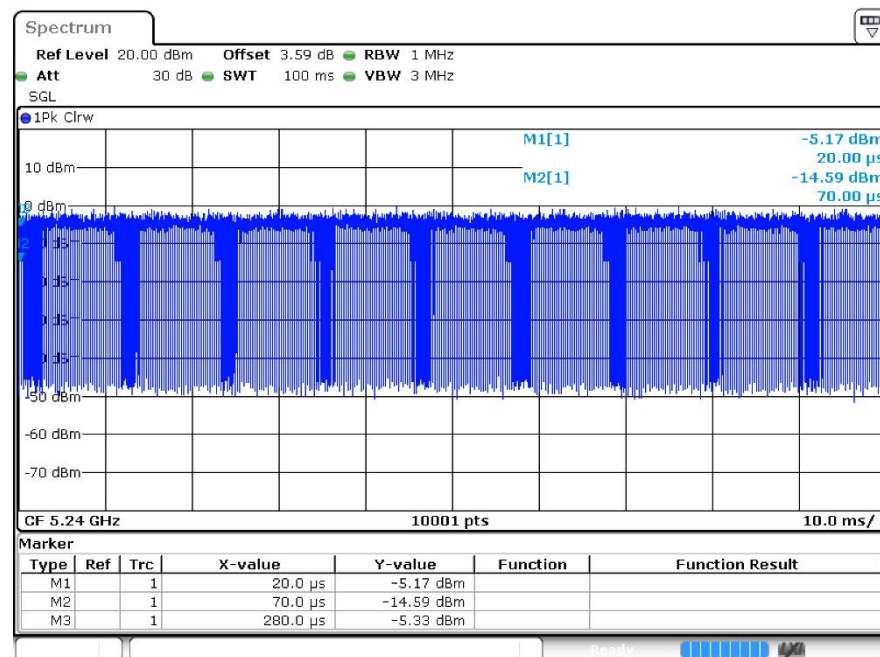
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	86.86	0.61	4.76
a	5200	Ant1	86.8	0.61	4.76
a	5240	Ant1	86.79	0.62	4.76
n20	5180	Ant1	87.55	0.58	4.35
n20	5200	Ant1	87.52	0.58	4.17
n20	5240	Ant1	87.51	0.58	4.35
n40	5190	Ant1	88	0.56	4
n40	5230	Ant1	88.01	0.55	4
ac20	5180	Ant1	87.5	0.58	4.17
ac20	5200	Ant1	87.68	0.57	4.35
ac20	5240	Ant1	87.5	0.58	4.35
ac40	5190	Ant1	86.9	0.61	4.35
ac40	5230	Ant1	87	0.6	4.35
ac80	5210	Ant1	84.86	0.71	4.35

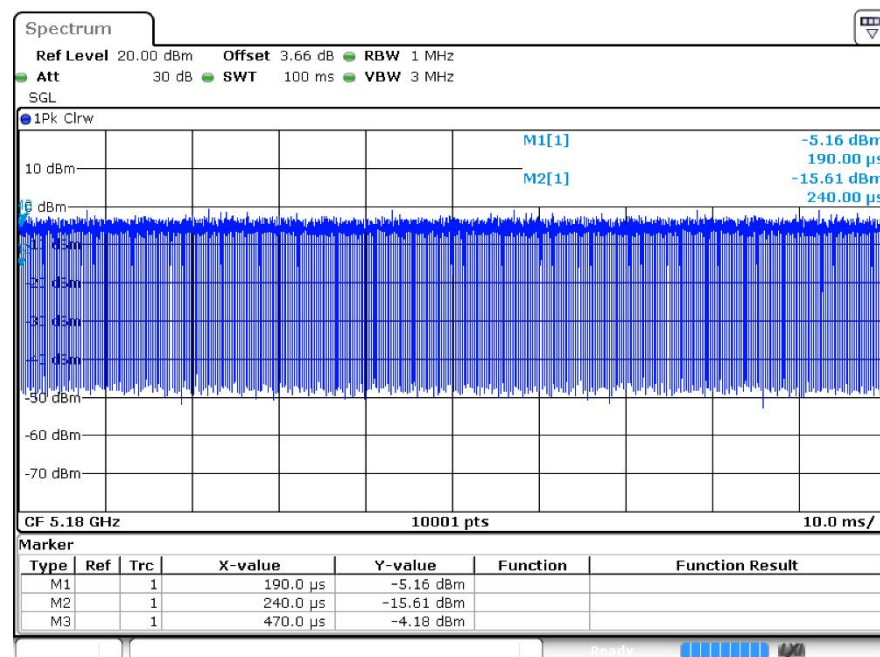
1.2 Test Graphs



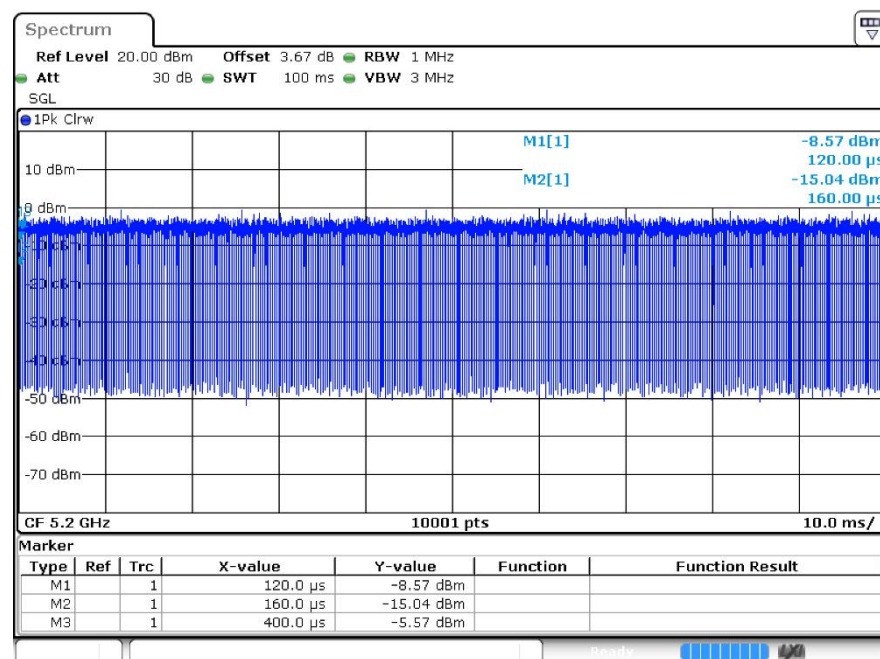
Duty Cycle a 5240MHz Ant1



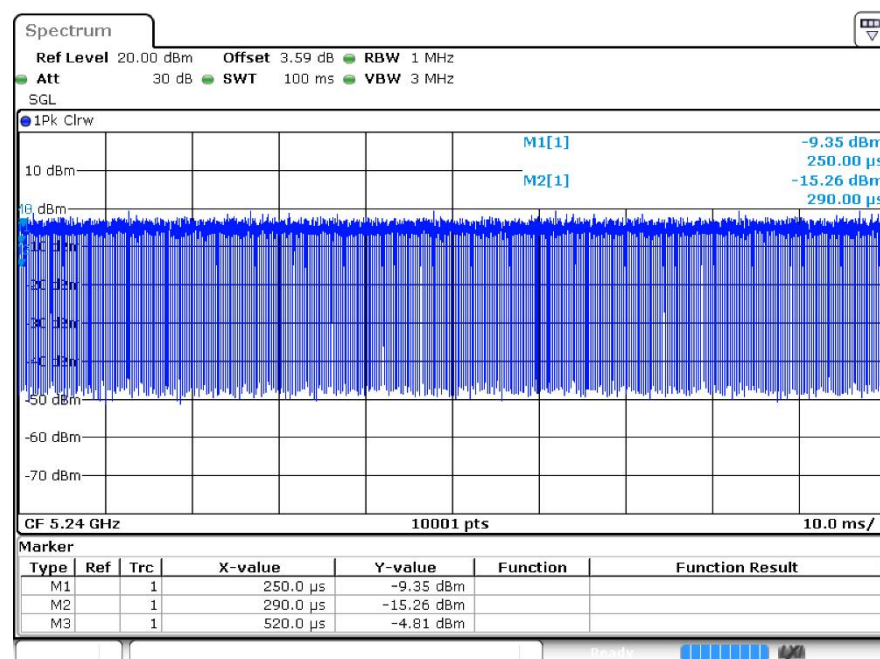
Duty Cycle n20 5180MHz Ant1



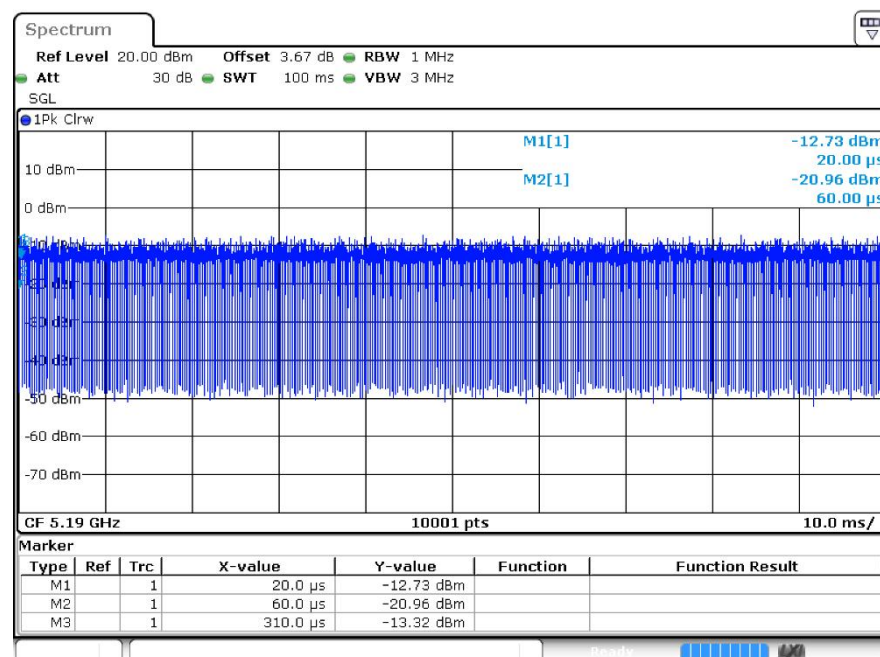
Duty Cycle n20 5200MHz Ant1



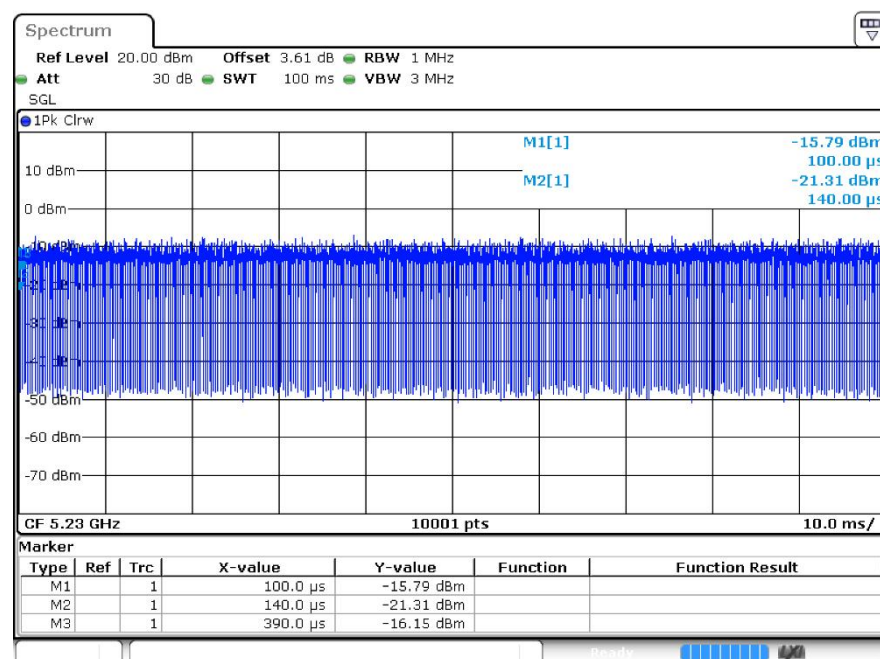
Duty Cycle n20 5240MHz Ant1



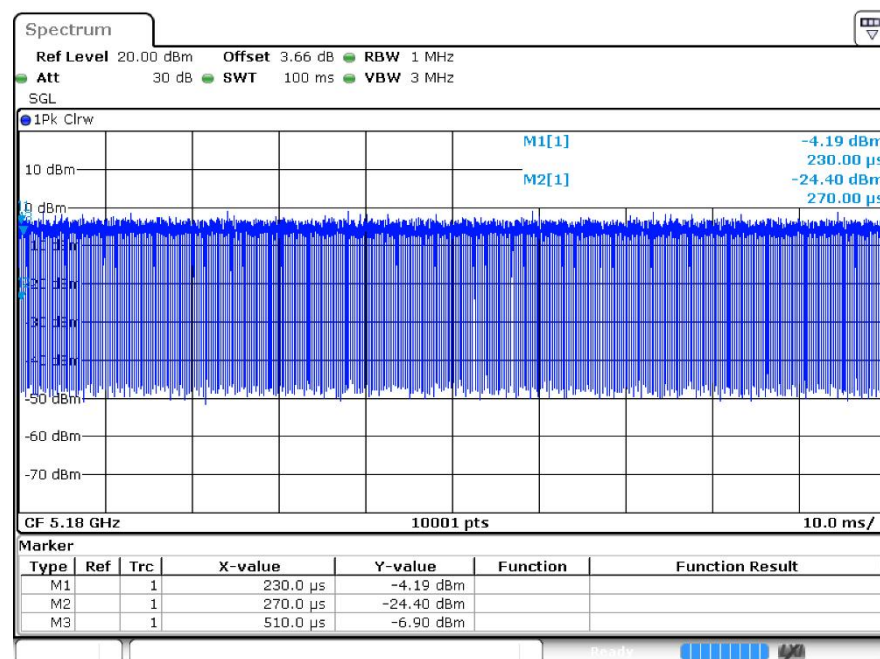
Duty Cycle n40 5190MHz Ant1



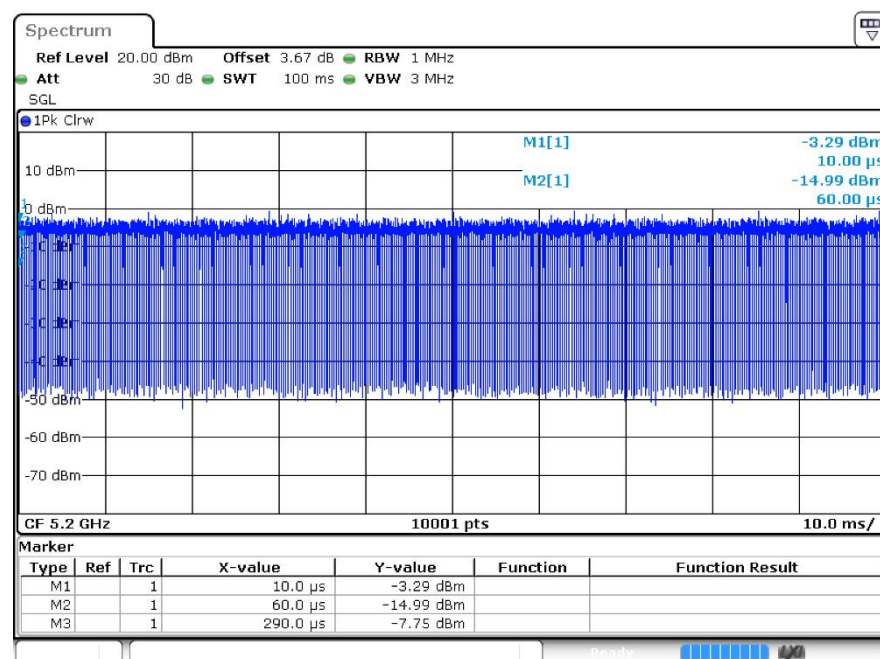
Duty Cycle n40 5230MHz Ant1



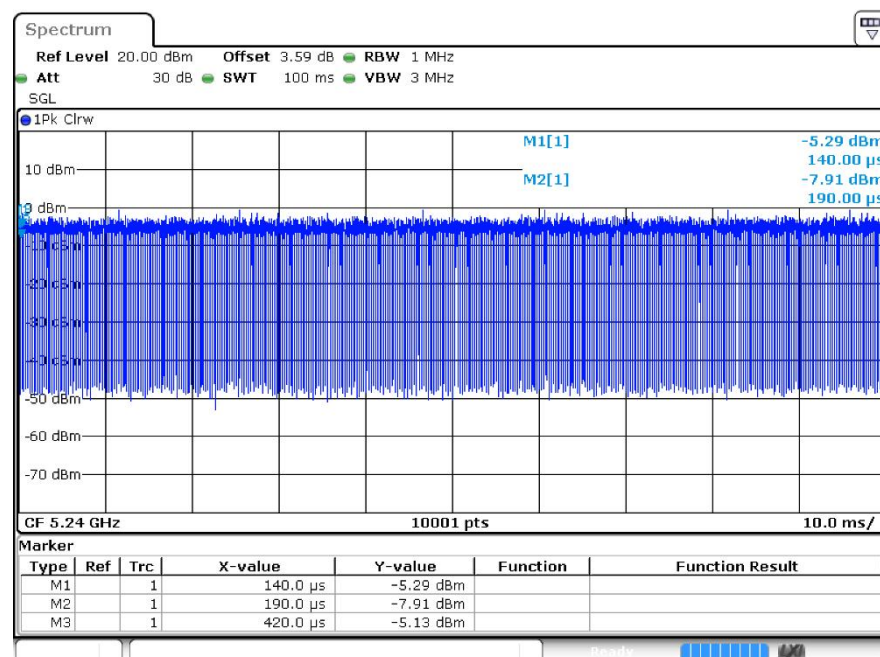
Duty Cycle ac20 5180MHz Ant1



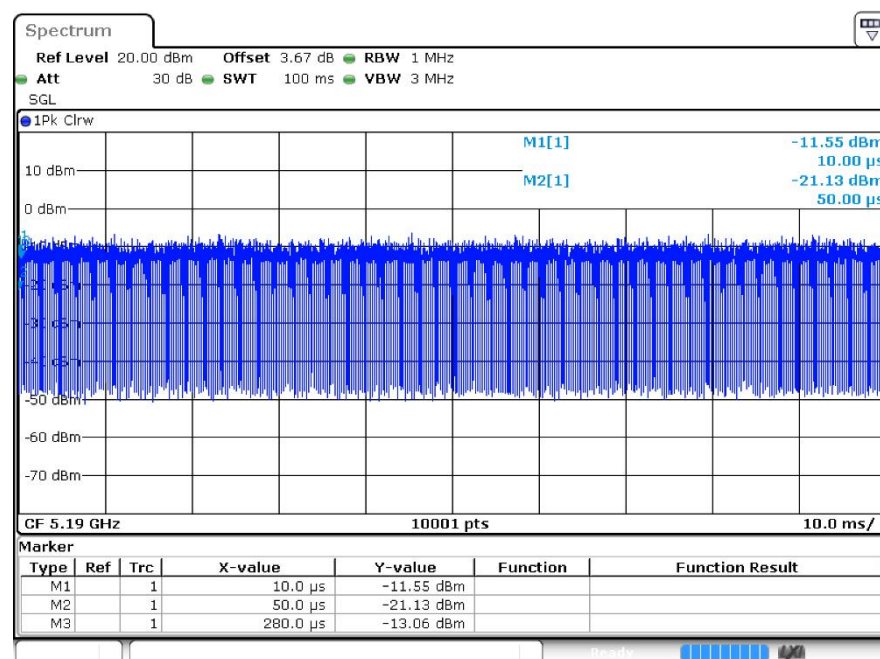
Duty Cycle ac20 5200MHz Ant1



Duty Cycle ac20 5240MHz Ant1



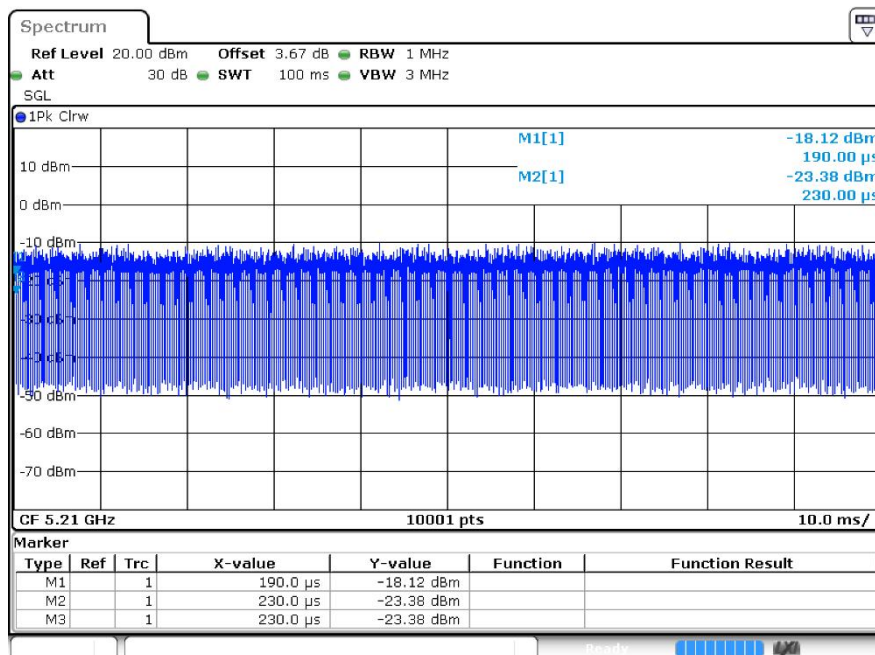
Duty Cycle ac40 5190MHz Ant1



Duty Cycle ac40 5230MHz Ant1



Duty Cycle ac80 5210MHz Ant1



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	5.57	24	Pass
a	5200	Ant1	5.92	24	Pass
a	5240	Ant1	5.86	24	Pass
n20	5180	Ant1	5.28	24	Pass
n20	5200	Ant1	5.32	24	Pass
n20	5240	Ant1	5.42	24	Pass
n40	5190	Ant1	5.02	24	Pass
n40	5230	Ant1	5.18	24	Pass
ac20	5180	Ant1	5.15	24	Pass
ac20	5200	Ant1	5.25	24	Pass
ac20	5240	Ant1	5.34	24	Pass
ac40	5190	Ant1	4.91	24	Pass
ac40	5230	Ant1	4.96	24	Pass
ac80	5210	Ant1	4.88	24	Pass

Note:

The duty factor has been compensated into the result.

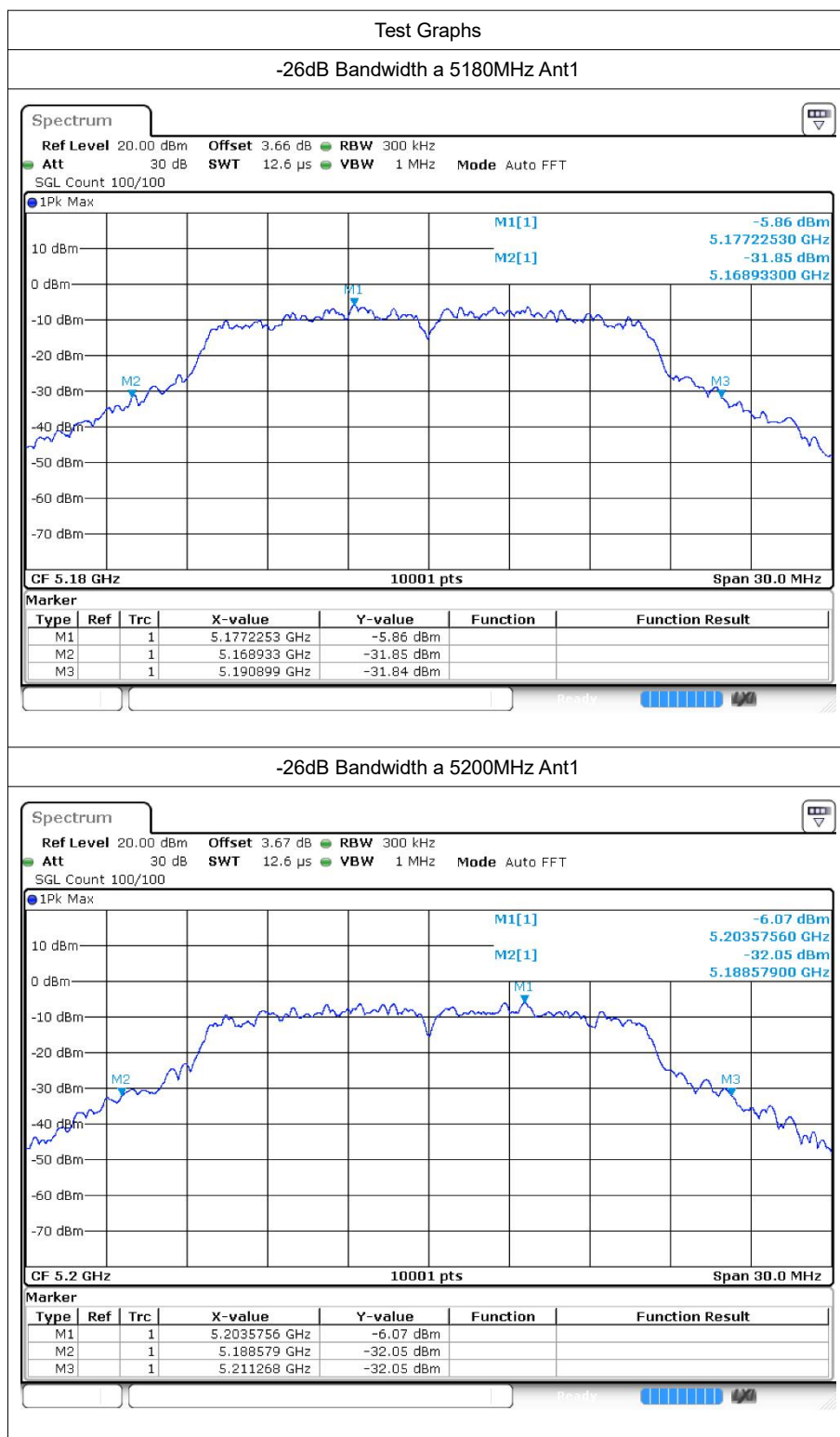


3 -26dB Bandwidth

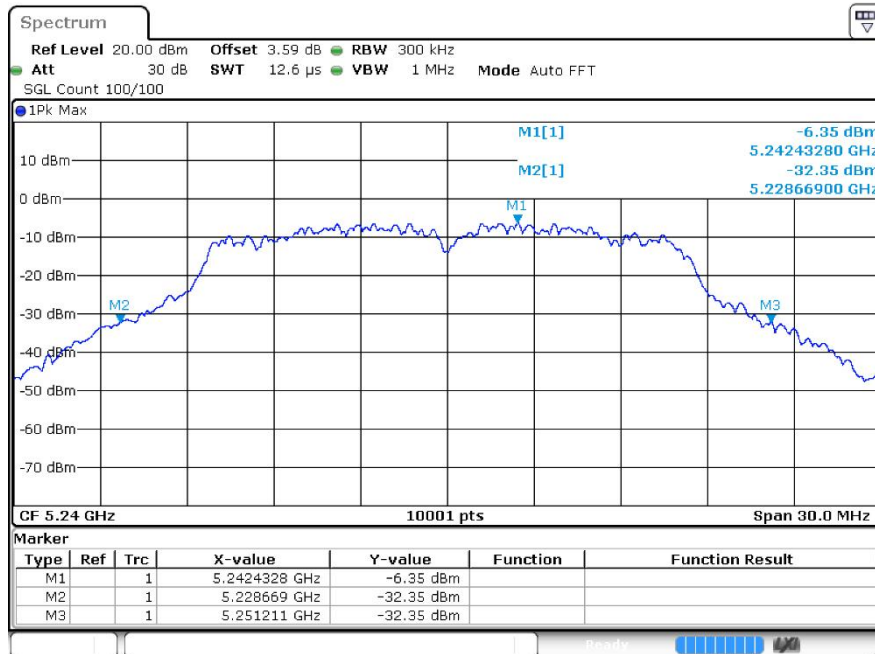
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	21.966	0.5	Pass
a	5200	Ant1	22.689	0.5	Pass
a	5240	Ant1	22.542	0.5	Pass
n20	5180	Ant1	22.95	0.5	Pass
n20	5200	Ant1	24.087	0.5	Pass
n20	5240	Ant1	22.086	0.5	Pass
n40	5190	Ant1	43.17	0.5	Pass
n40	5230	Ant1	41.034	0.5	Pass
ac20	5180	Ant1	22.389	0.5	Pass
ac20	5200	Ant1	22.23	0.5	Pass
ac20	5240	Ant1	23.091	0.5	Pass
ac40	5190	Ant1	43.686	0.5	Pass
ac40	5230	Ant1	42.66	0.5	Pass
ac80	5210	Ant1	84.108	0.5	Pass

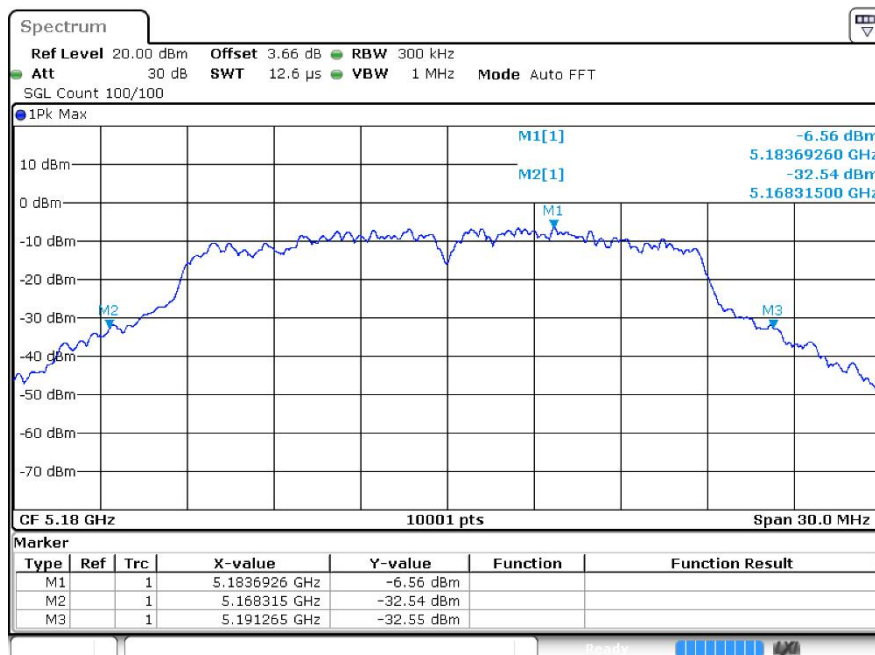
3.2 Test Graphs



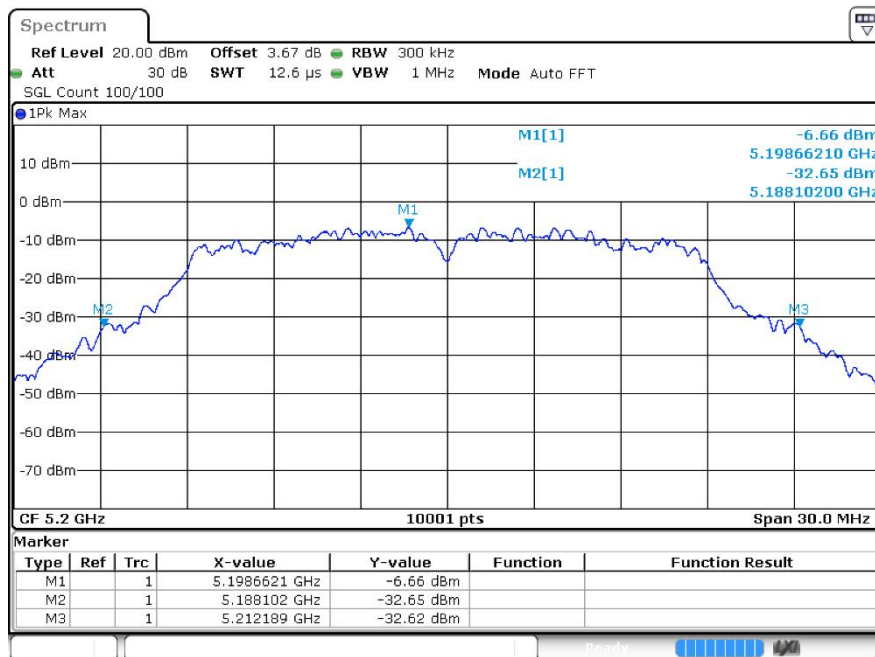
-26dB Bandwidth a 5240MHz Ant1



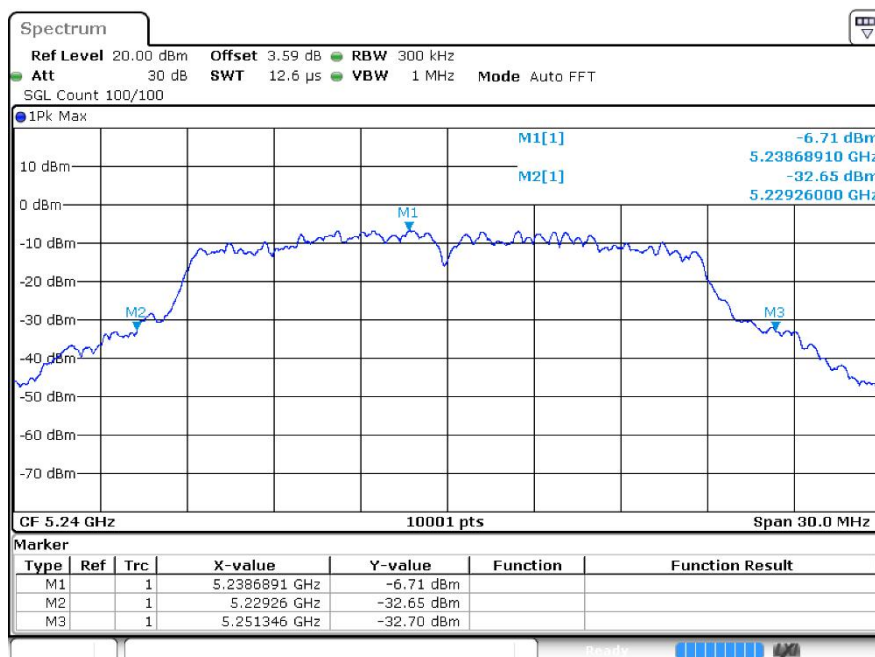
-26dB Bandwidth n20 5180MHz Ant1



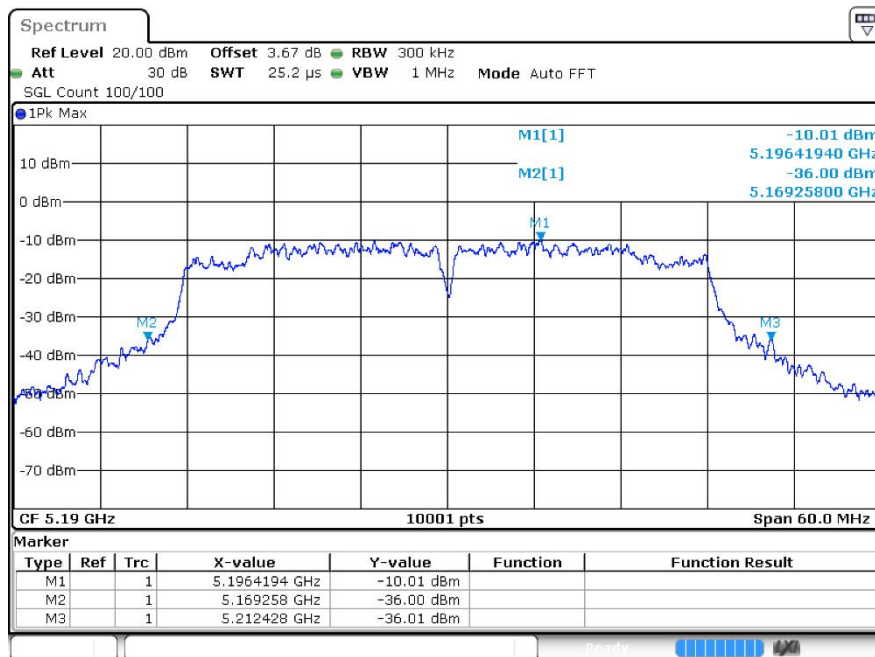
-26dB Bandwidth n20 5200MHz Ant1



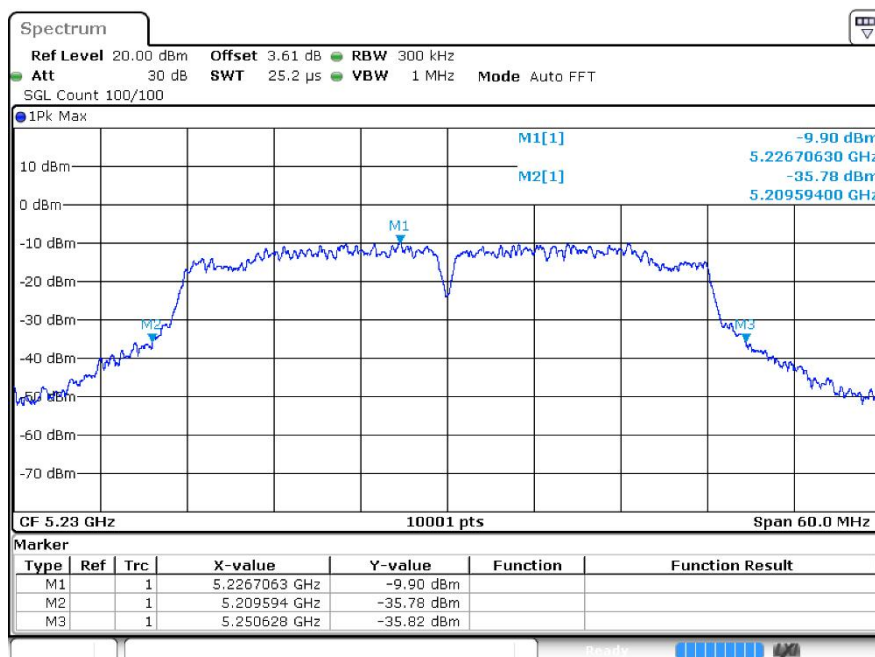
-26dB Bandwidth n20 5240MHz Ant1



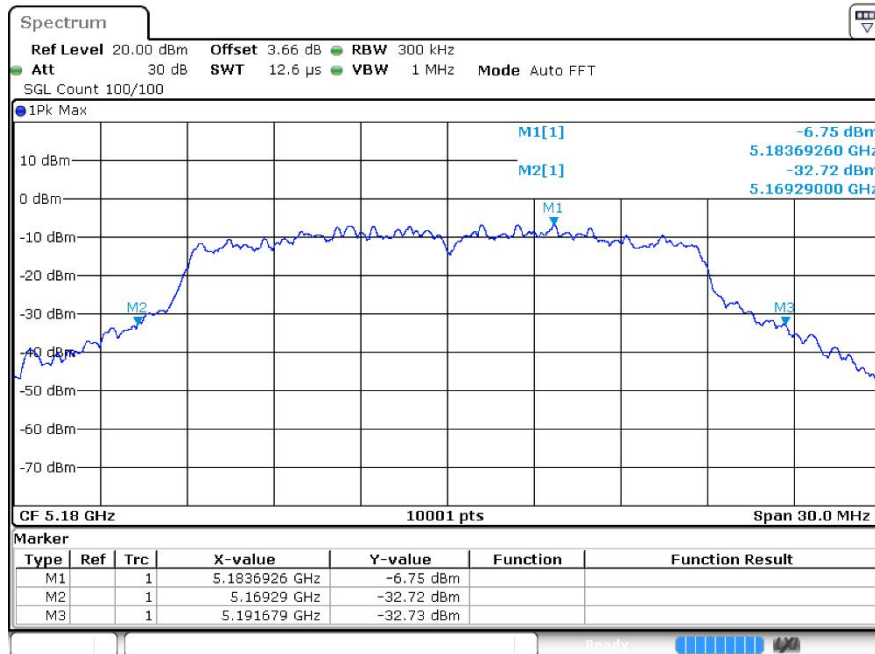
-26dB Bandwidth n40 5190MHz Ant1



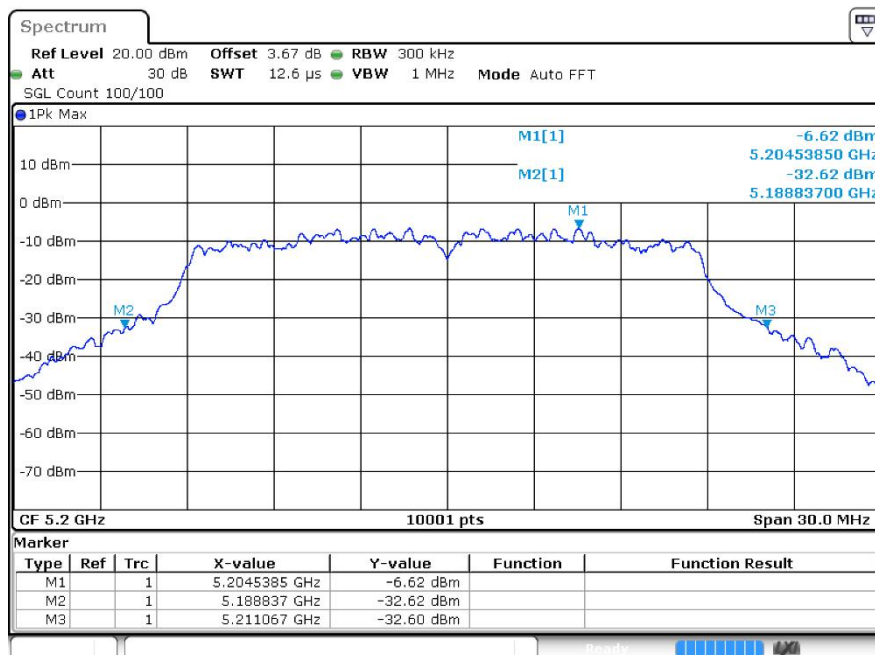
-26dB Bandwidth n40 5230MHz Ant1



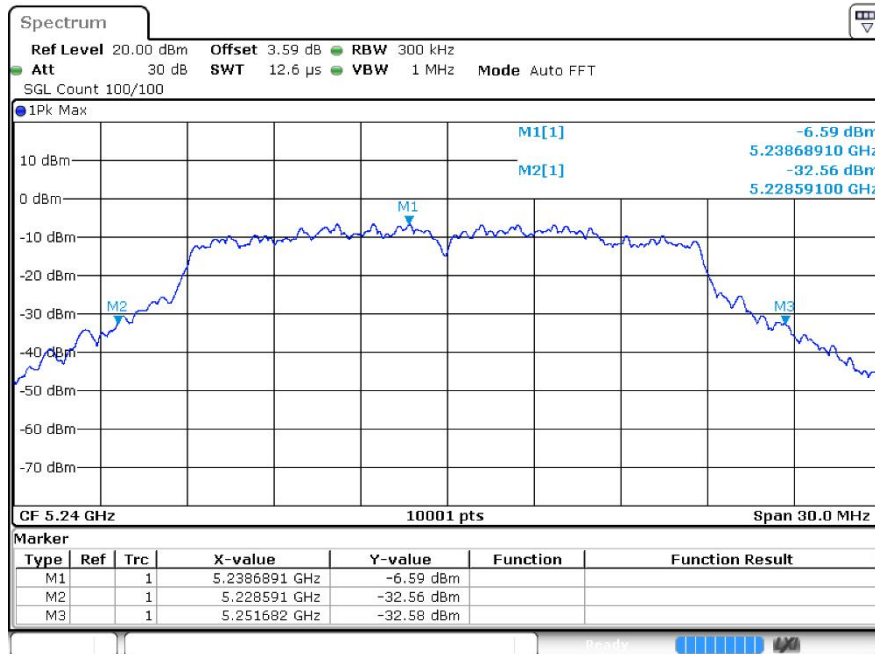
-26dB Bandwidth ac20 5180MHz Ant1



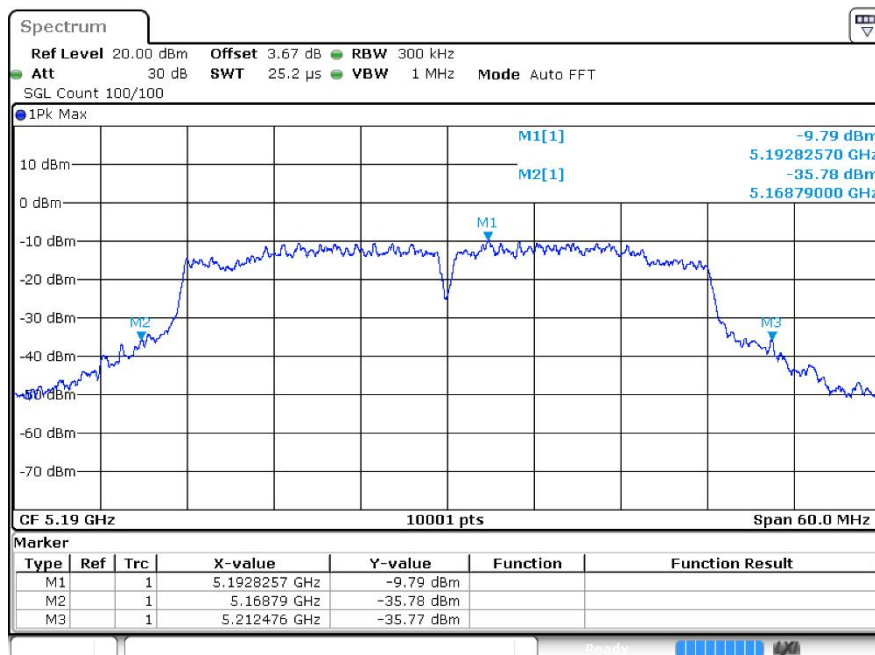
-26dB Bandwidth ac20 5200MHz Ant1



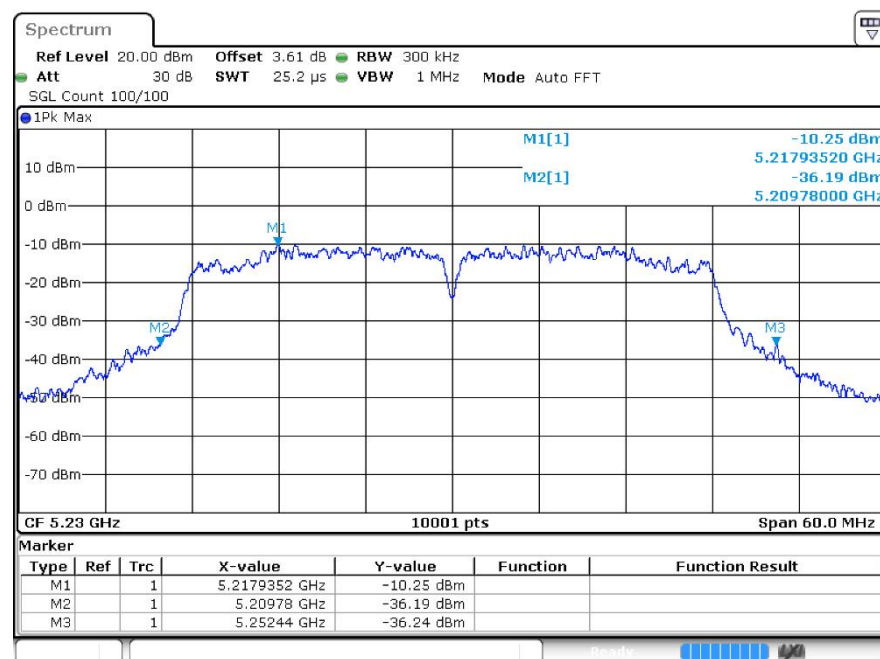
-26dB Bandwidth ac20 5240MHz Ant1



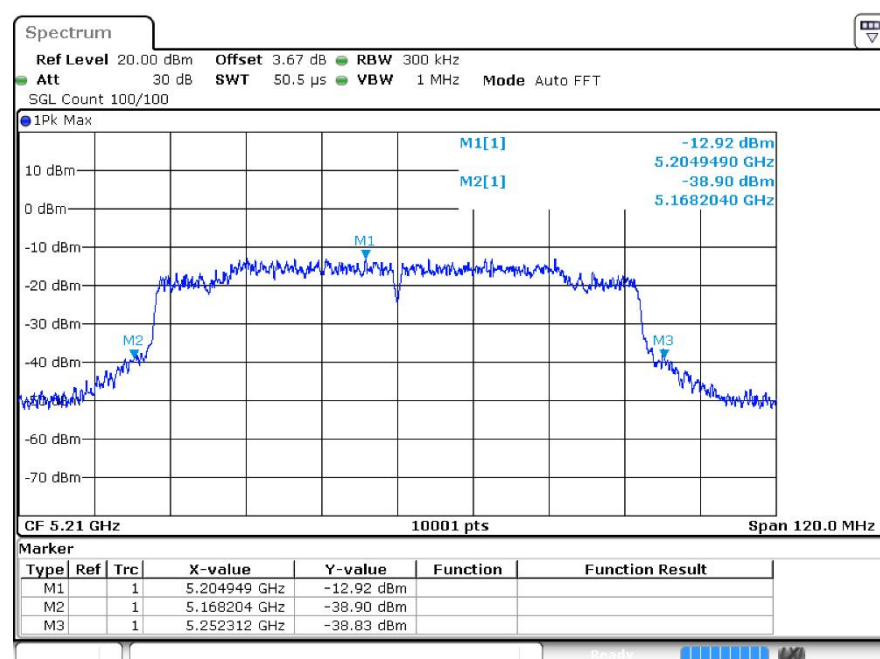
-26dB Bandwidth ac40 5190MHz Ant1



-26dB Bandwidth ac40 5230MHz Ant1



-26dB Bandwidth ac80 5210MHz Ant1



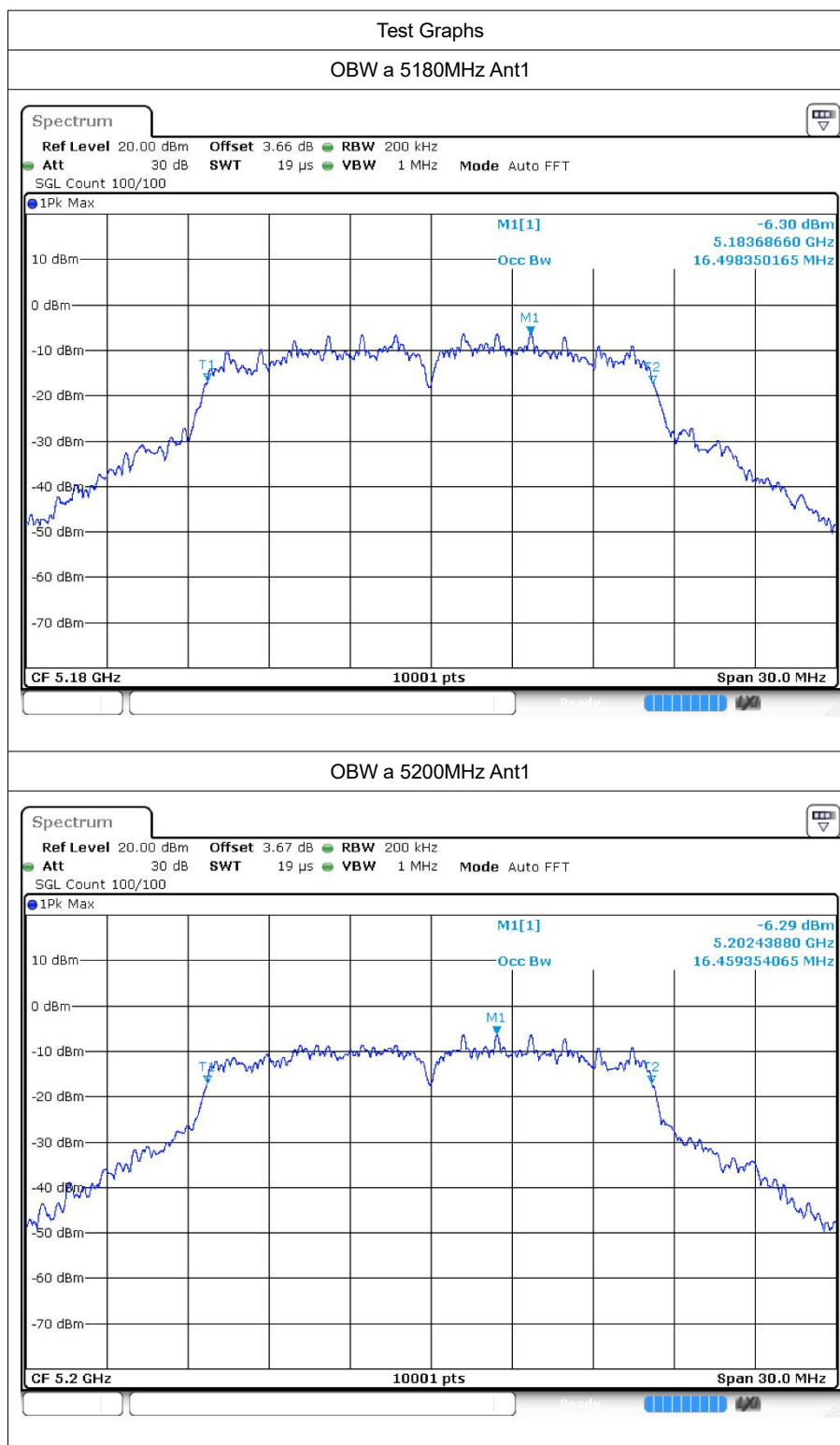


4 Occupied Channel Bandwidth

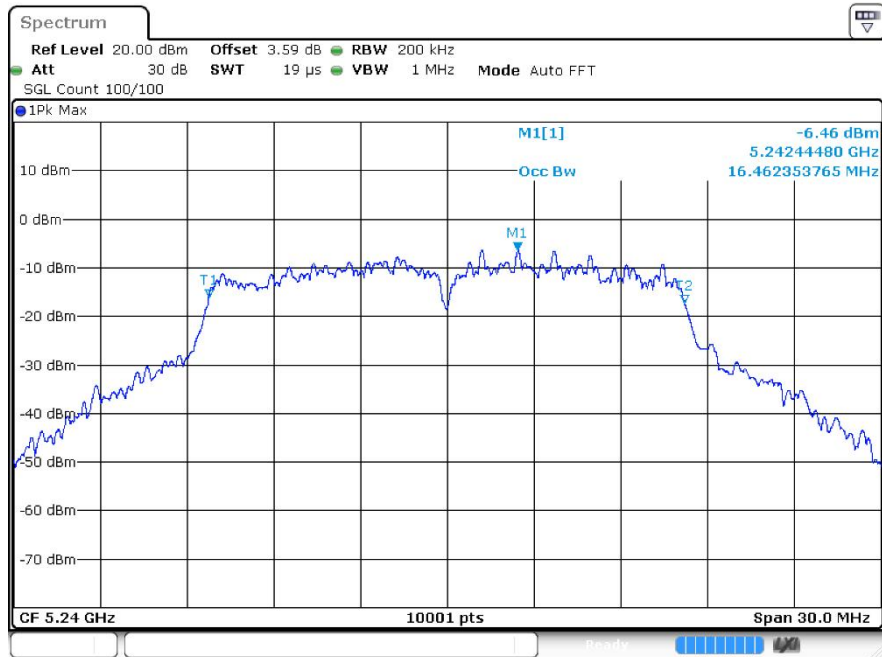
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.498
a	5200	Ant1	16.459
a	5240	Ant1	16.462
n20	5180	Ant1	17.566
n20	5200	Ant1	17.638
n20	5240	Ant1	17.602
n40	5190	Ant1	36.014
n40	5230	Ant1	36.062
ac20	5180	Ant1	17.638
ac20	5200	Ant1	17.659
ac20	5240	Ant1	17.578
ac40	5190	Ant1	36.056
ac40	5230	Ant1	36.14
ac80	5210	Ant1	74.801

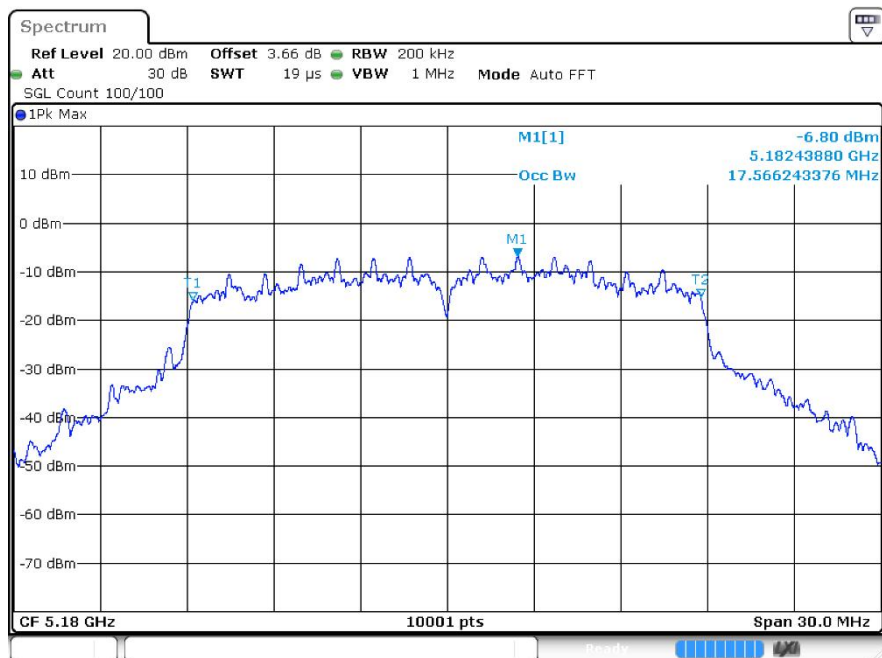
4.2 Test Graphs



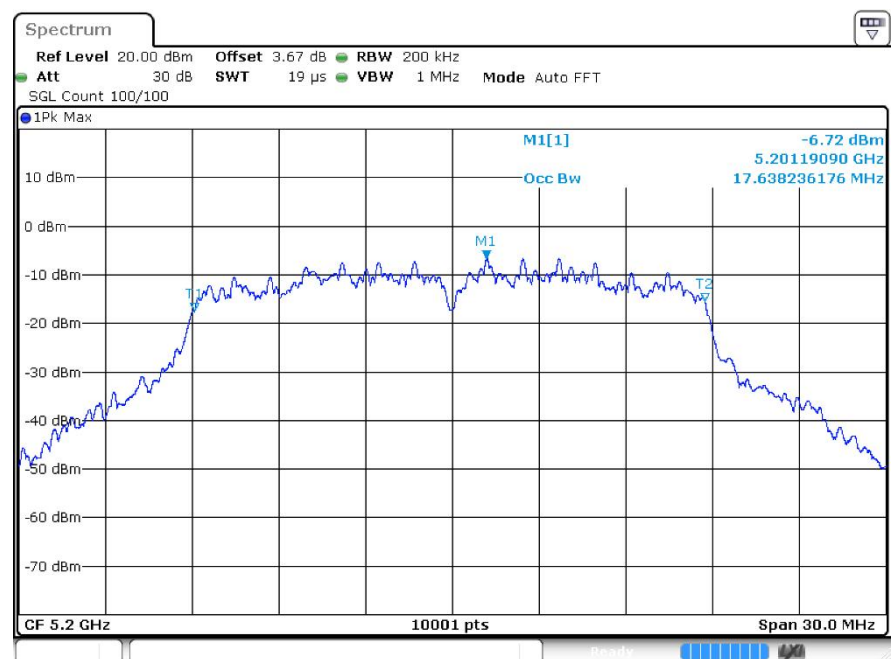
OBW a 5240MHz Ant1



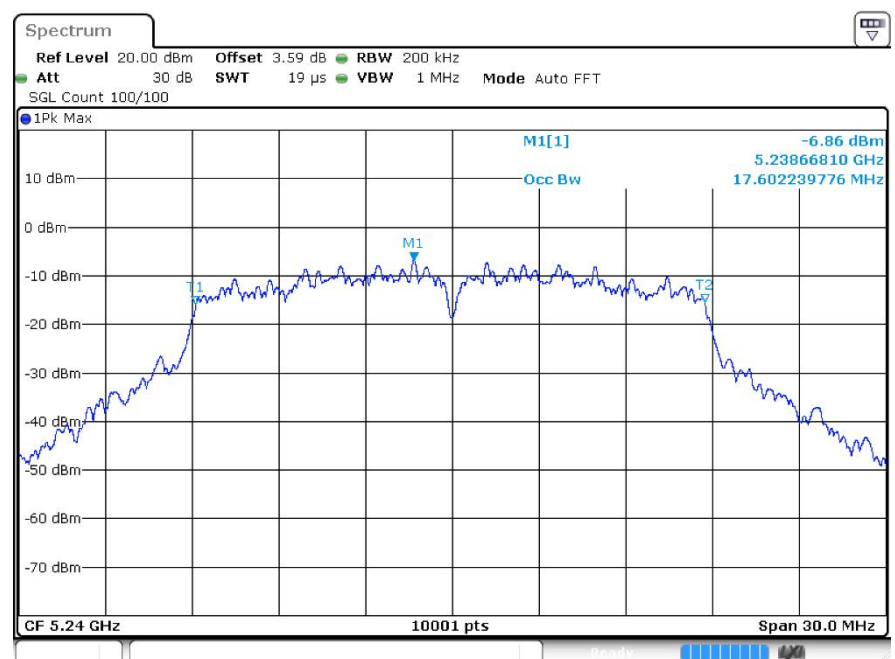
OBW n20 5180MHz Ant1



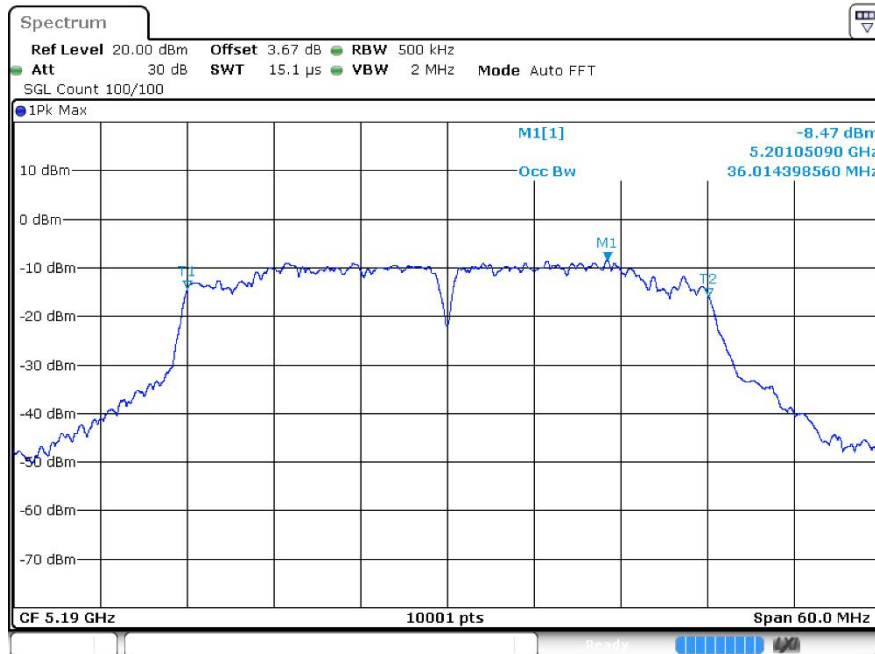
OBW n20 5200MHz Ant1



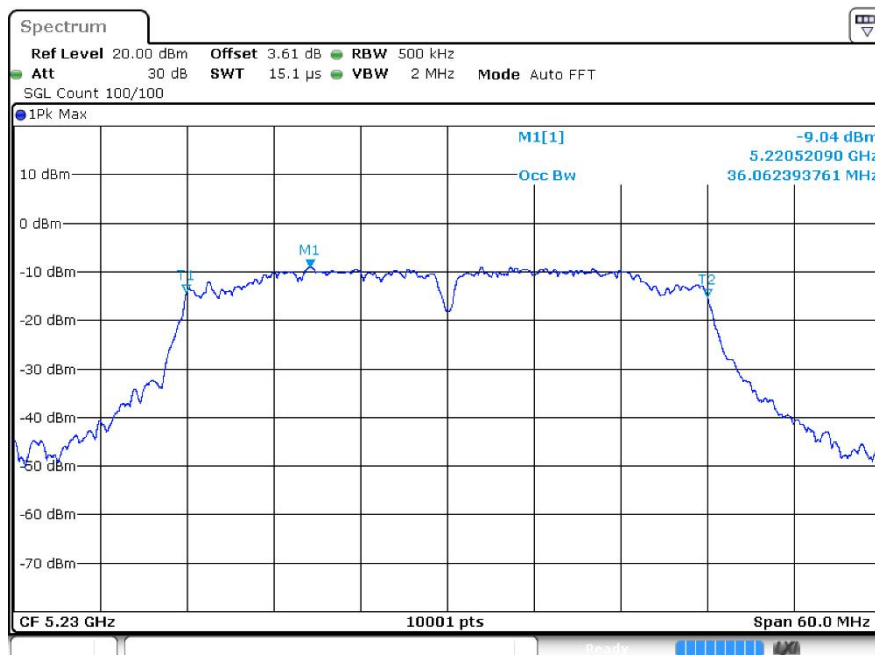
OBW n20 5240MHz Ant1



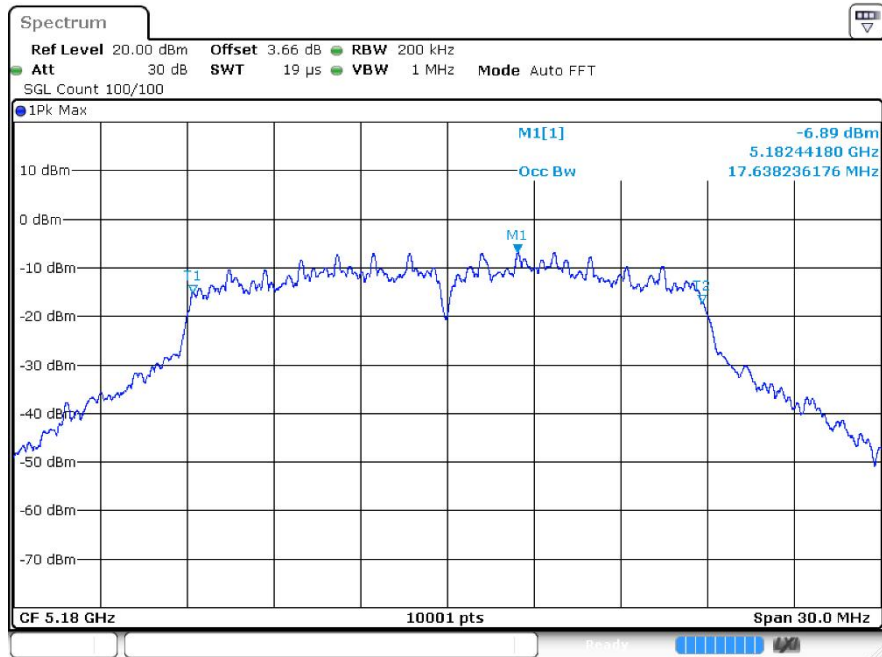
OBW n40 5190MHz Ant1



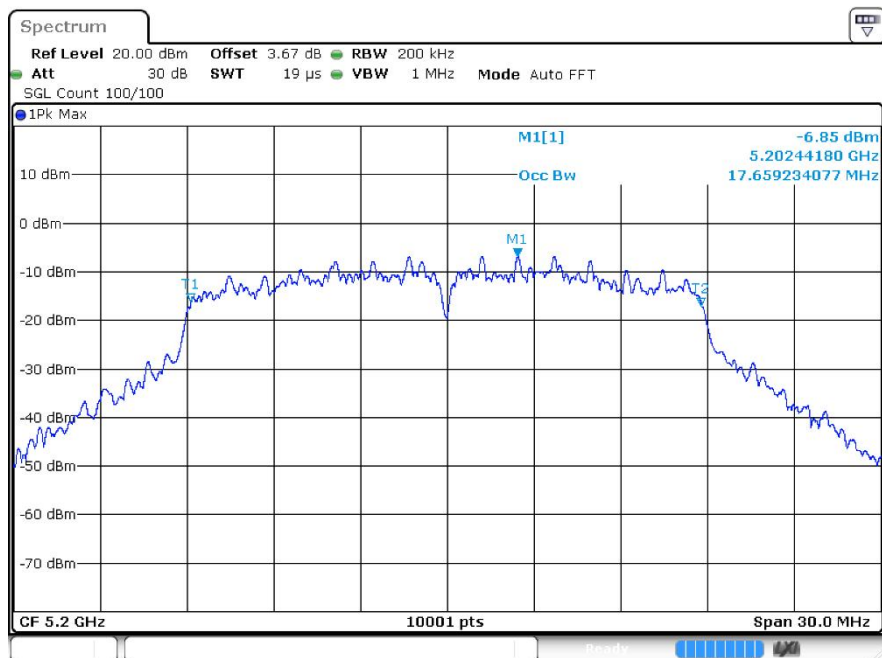
OBW n40 5230MHz Ant1



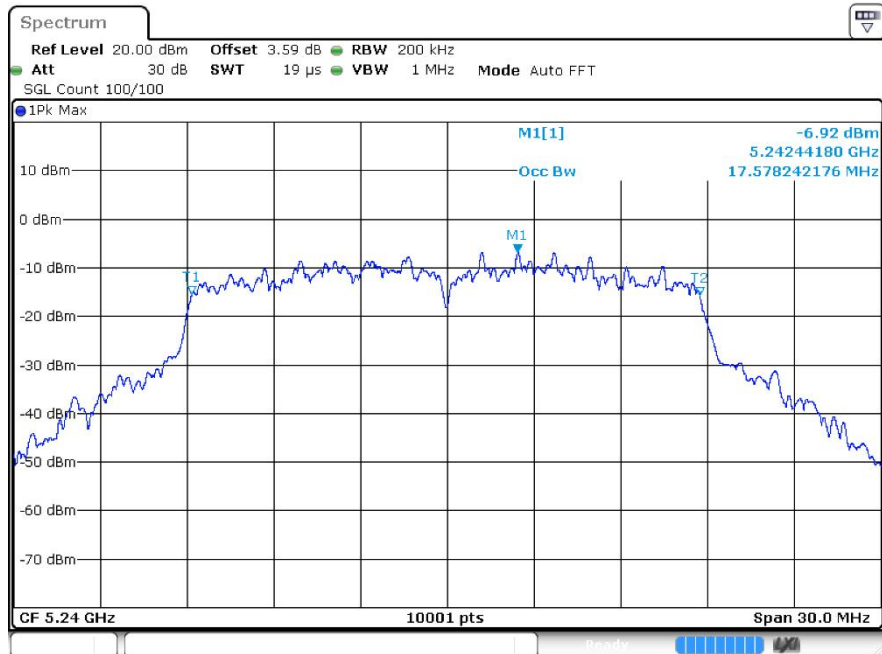
OBW ac20 5180MHz Ant1



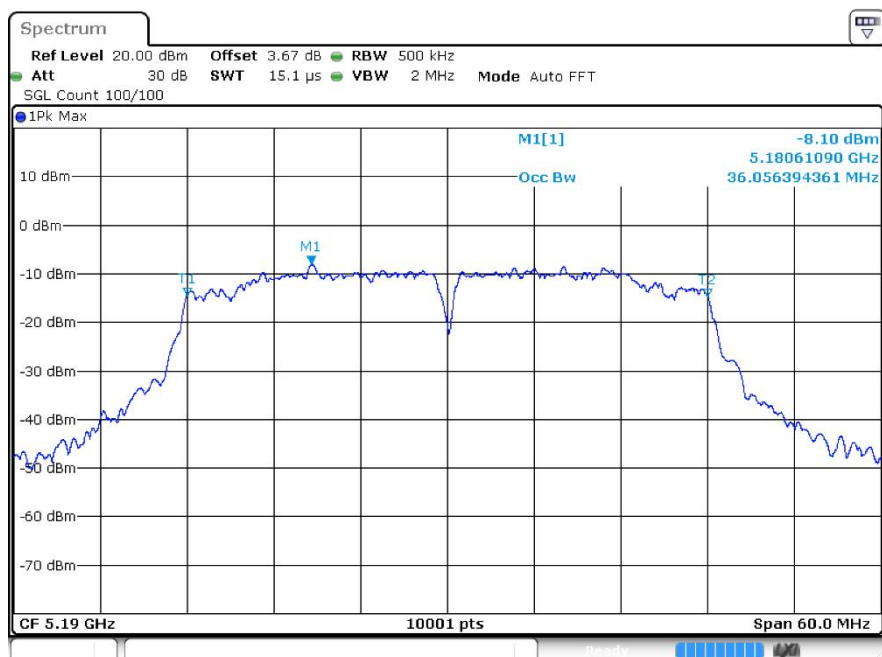
OBW ac20 5200MHz Ant1



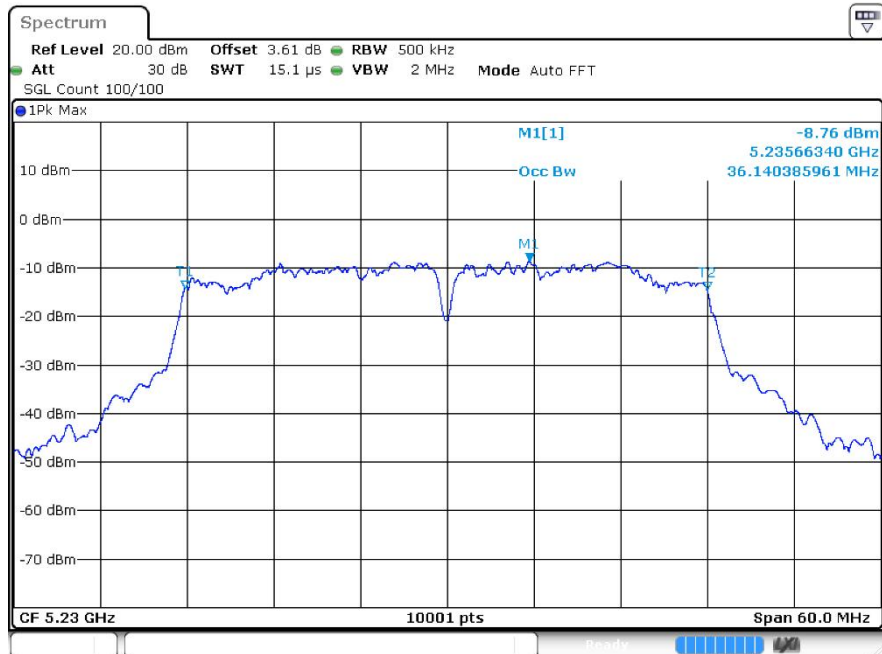
OBW ac20 5240MHz Ant1



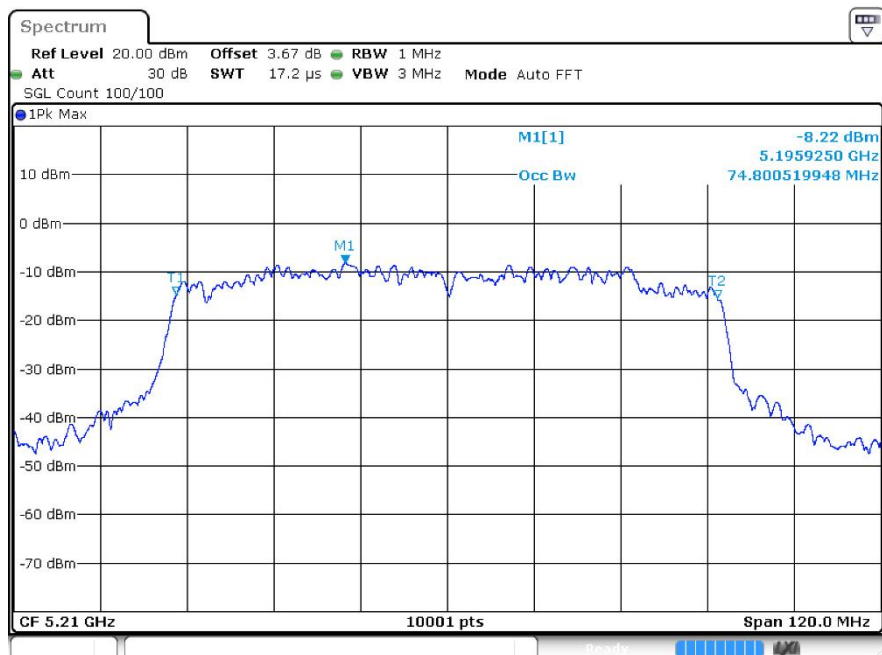
OBW ac40 5190MHz Ant1



OBW ac40 5230MHz Ant1



OBW ac80 5210MHz Ant1

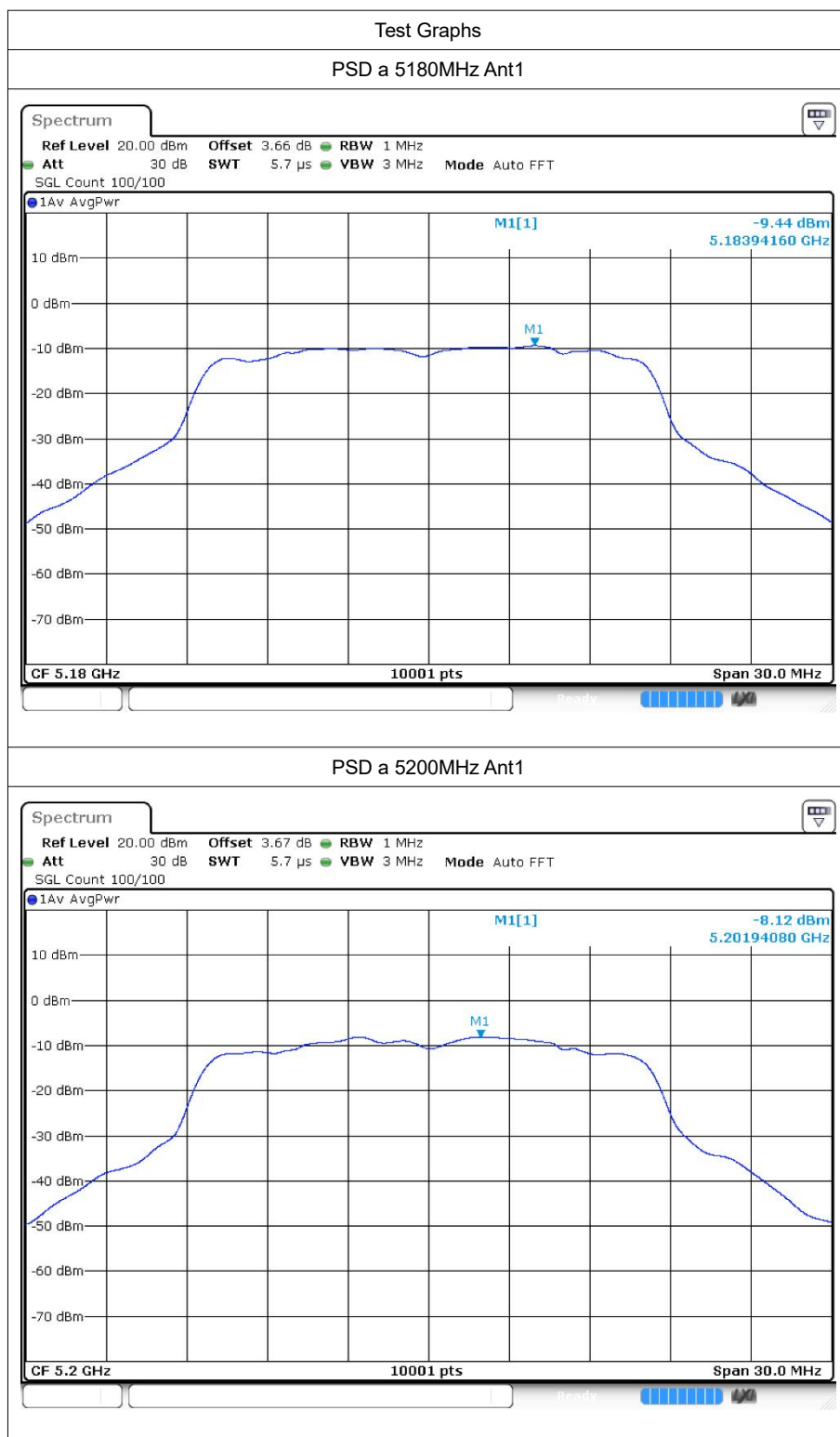


5 Maximum Power Spectral Density Level

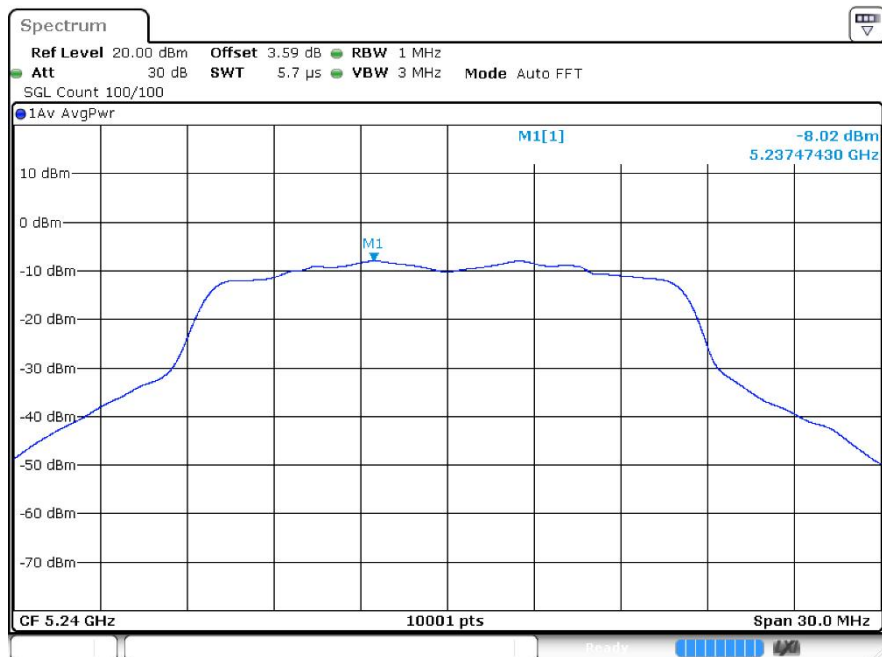
5.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	-9.44	0.61	-8.83	11	Pass
a	5200	Ant1	-8.12	0.61	-7.51	11	Pass
a	5240	Ant1	-8.02	0.62	-7.4	11	Pass
n20	5180	Ant1	-9.13	0.58	-8.55	11	Pass
n20	5200	Ant1	-8.72	0.58	-8.14	11	Pass
n20	5240	Ant1	-8.89	0.58	-8.31	11	Pass
n40	5190	Ant1	-12.34	0.56	-11.78	11	Pass
n40	5230	Ant1	-12.61	0.55	-12.06	11	Pass
ac20	5180	Ant1	-10.86	0.58	-10.28	11	Pass
ac20	5200	Ant1	-9.65	0.57	-9.08	11	Pass
ac20	5240	Ant1	-8.92	0.58	-8.34	11	Pass
ac40	5190	Ant1	-12.51	0.61	-11.9	11	Pass
ac40	5230	Ant1	-13.42	0.6	-12.82	11	Pass
ac80	5210	Ant1	-16	0.71	-15.29	11	Pass

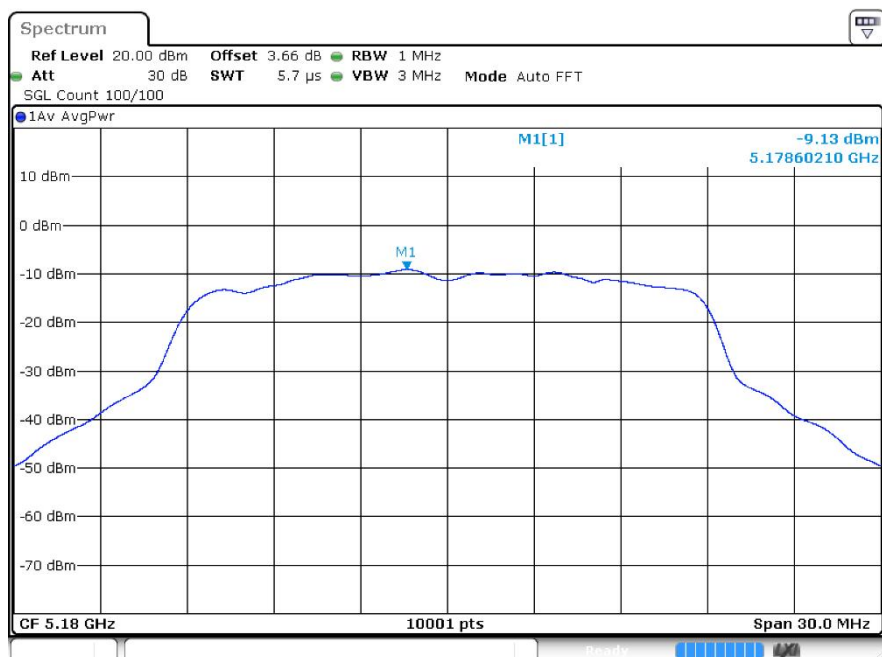
5.2 Test Graphs



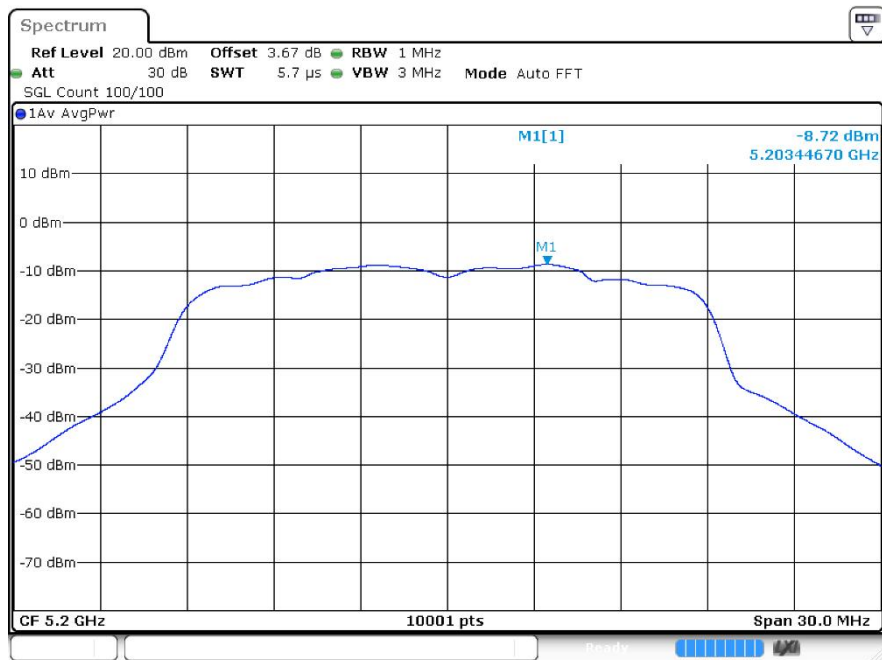
PSD a 5240MHz Ant1



PSD n20 5180MHz Ant1



PSD n20 5200MHz Ant1



PSD n20 5240MHz Ant1

