Appendix D

RF Test Data for B1WIFI(Conducted Measurement)

Product Name: translating machine

Trade Mark: N/A

Test Model: T22

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

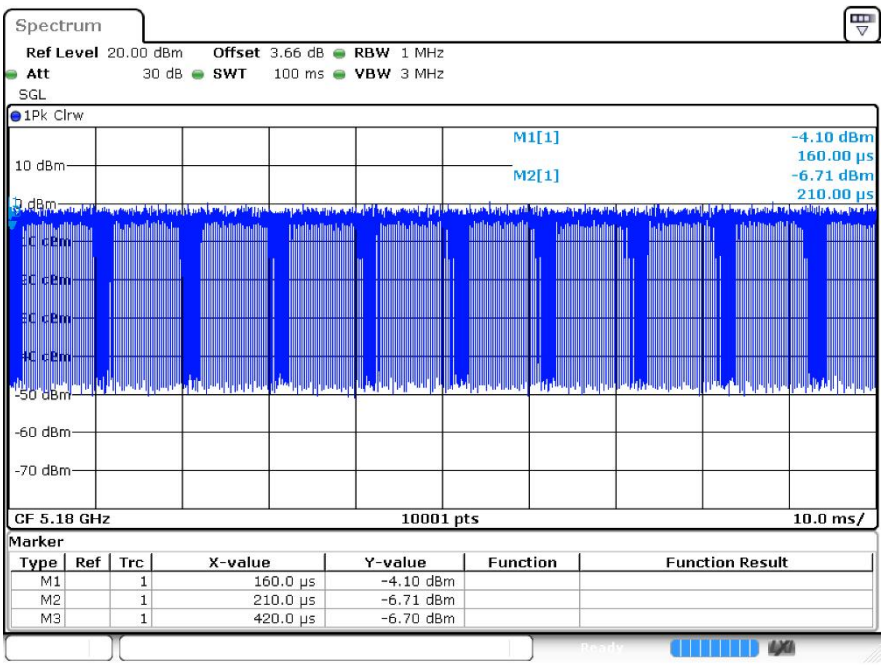
1 Duty Cycle

1.1 Test Result

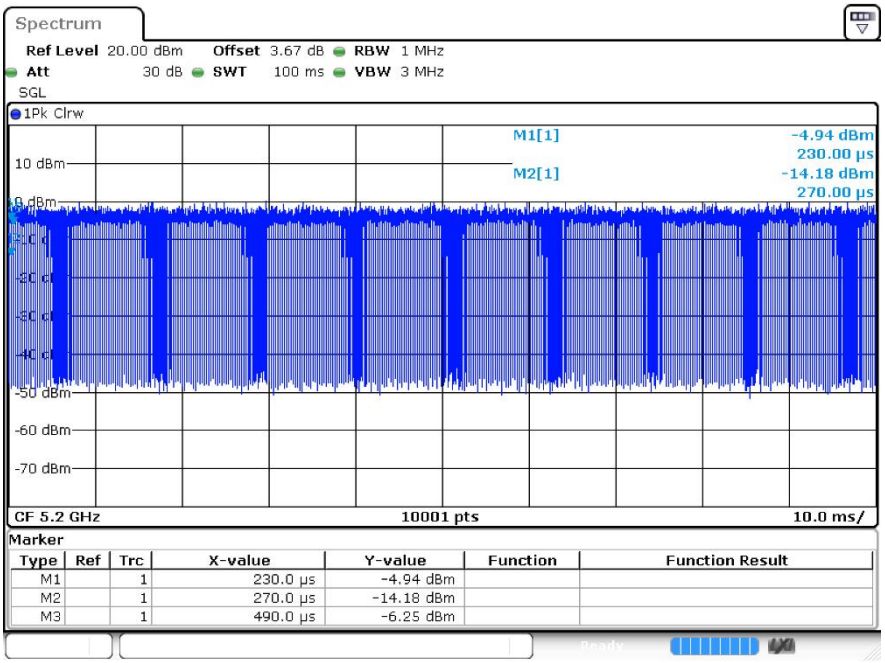
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	86.79	0.62	4.76
a	5200	Ant1	86.97	0.61	4.55
a	5240	Ant1	86.88	0.61	4.76
n20	5180	Ant1	87.53	0.58	4.17
n20	5200	Ant1	87.53	0.58	4.35
n20	5240	Ant1	87.54	0.58	4.35
n40	5190	Ant1	87.98	0.56	4.17
n40	5230	Ant1	88.04	0.55	4
ac20	5180	Ant1	87.07	0.6	4.55
ac20	5200	Ant1	87.27	0.59	4.35
ac20	5240	Ant1	87.13	0.6	4.35
ac40	5190	Ant1	86.94	0.61	4.55
ac40	5230	Ant1	87.09	0.6	4.55
ac80	5210	Ant1	86.56	0.63	4.35

1.2 Test Graphs

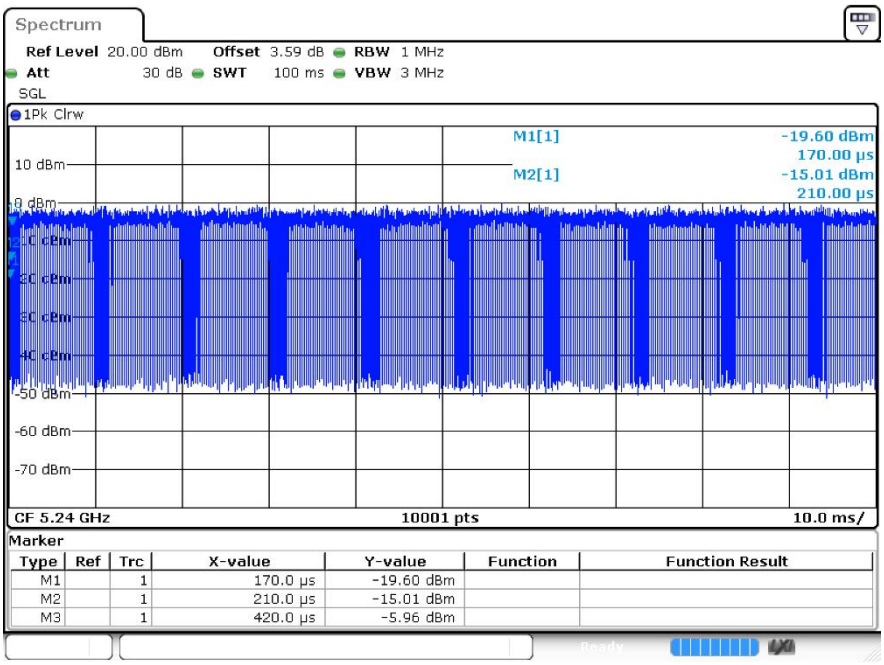
Test Graphs
Duty Cyclea 5180MHz Ant1



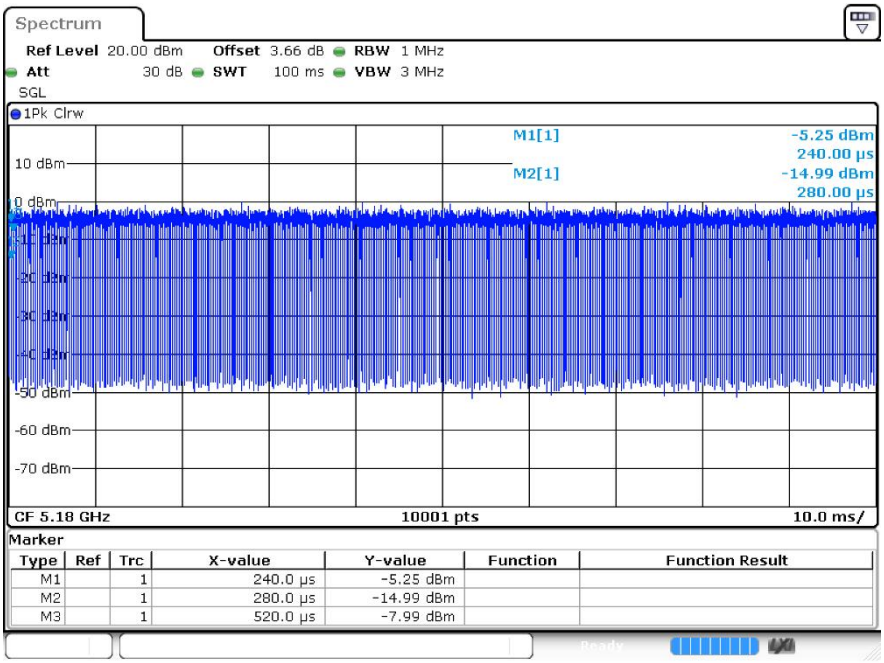
Duty Cycle a 5200MHz Ant1



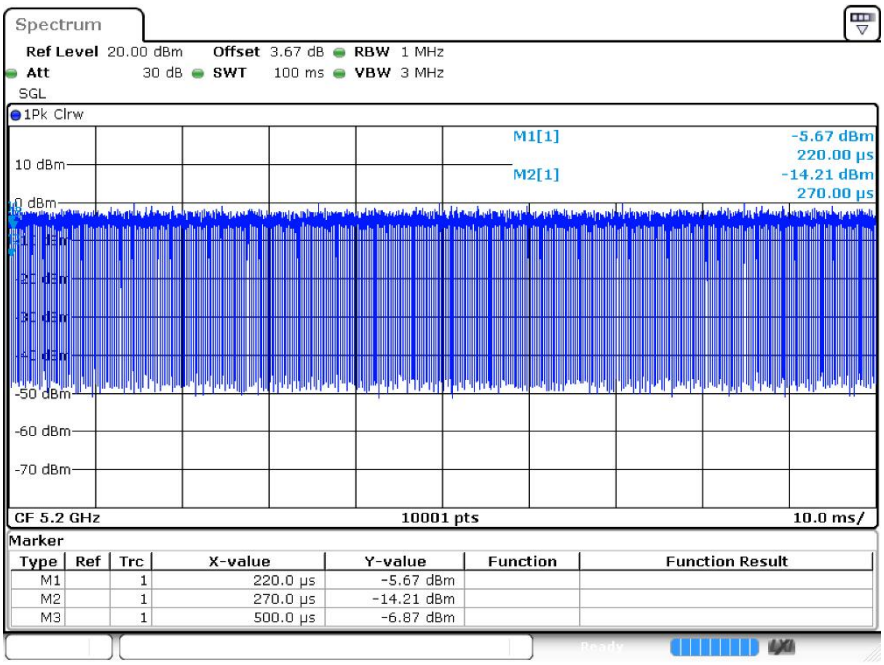
Duty Cyclea 5240MHz Ant1



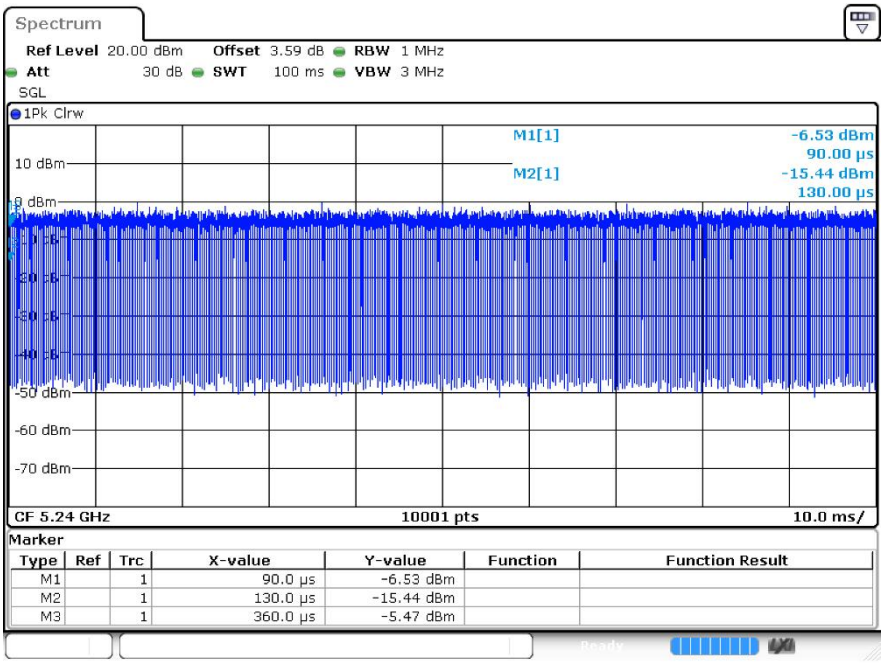
Duty Cycle n20 5180MHz Ant1



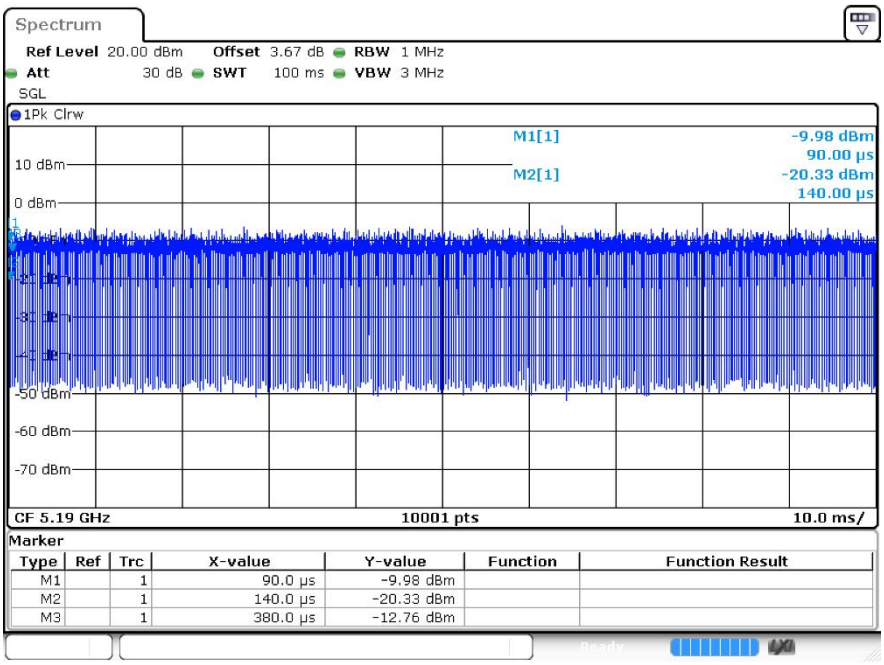
Duty Cycle n20 5200MHz Ant1



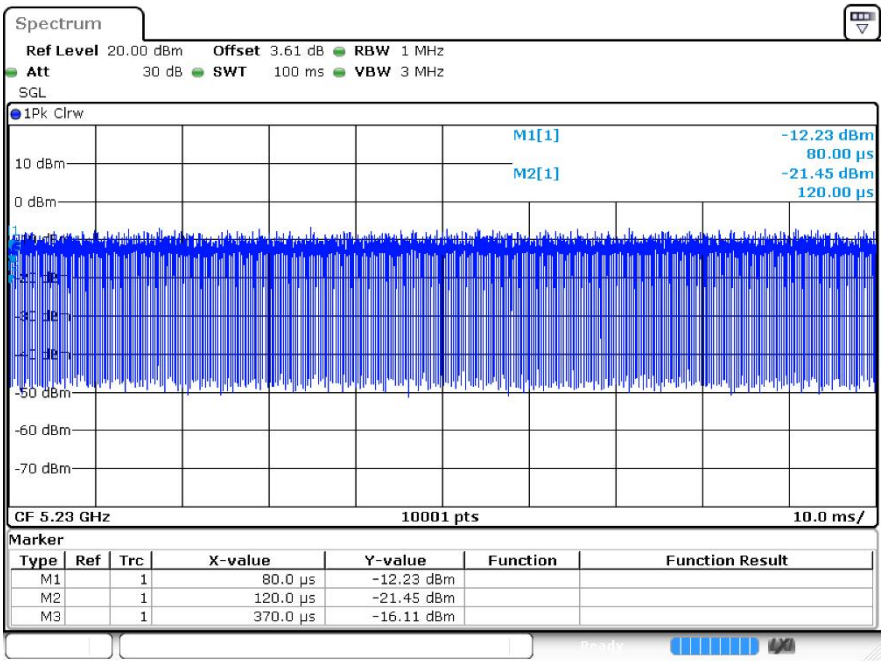
Duty Cycle n20 5240MHz Ant1



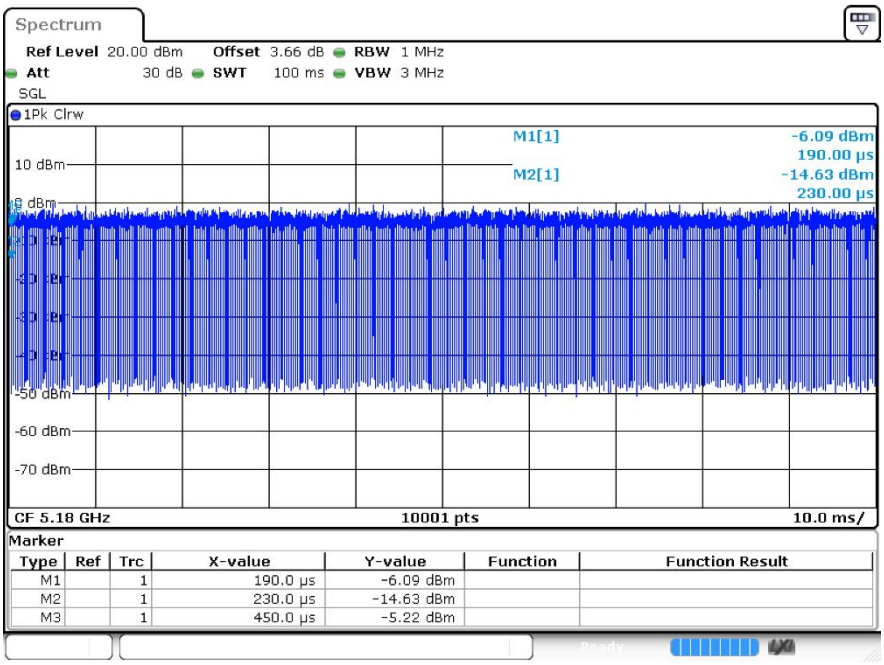
Duty Cyclen40 5190MHz Ant1



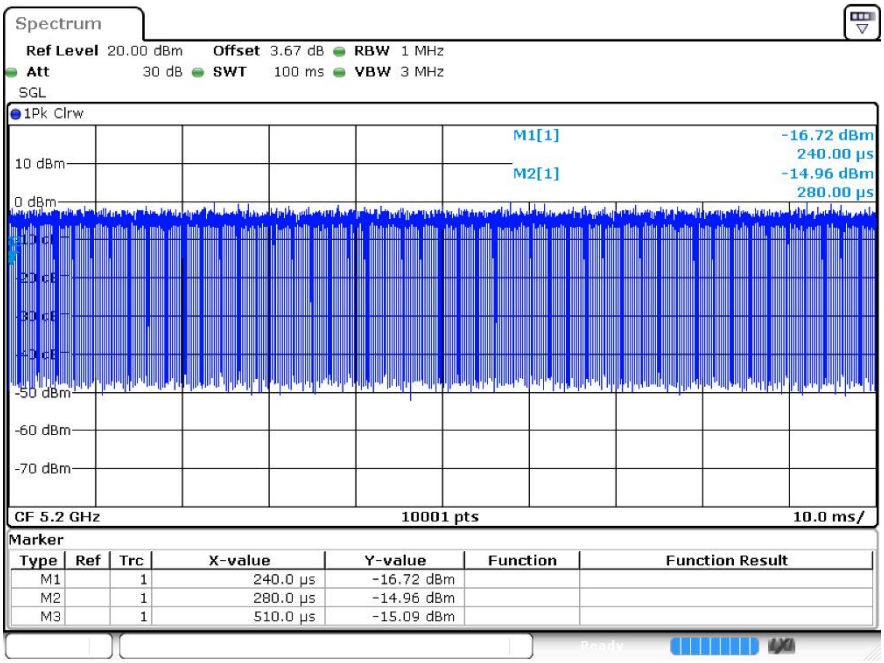
Duty Cyclen40 5230MHz Ant1



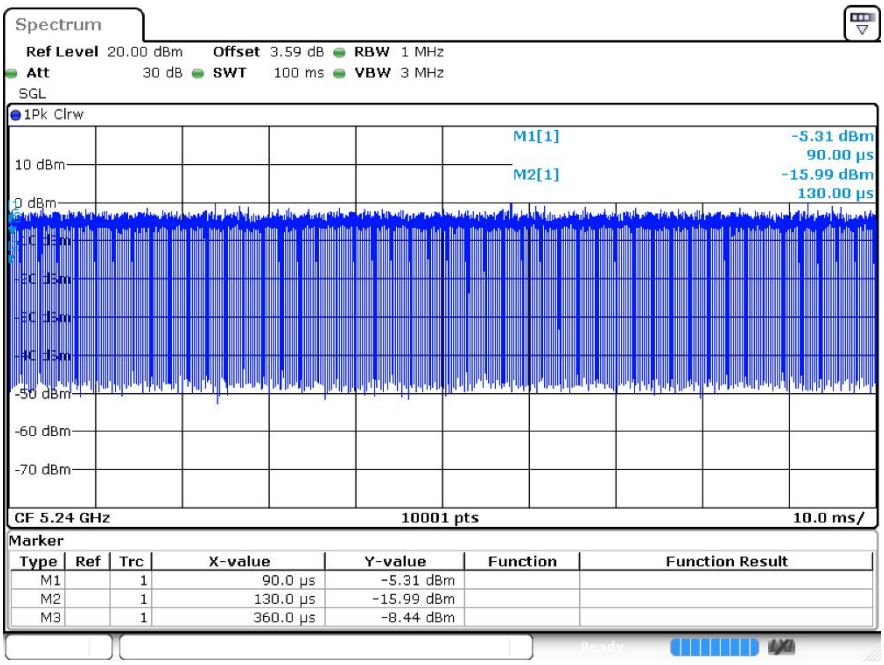
Duty Cycle ac20 5180MHz Ant1



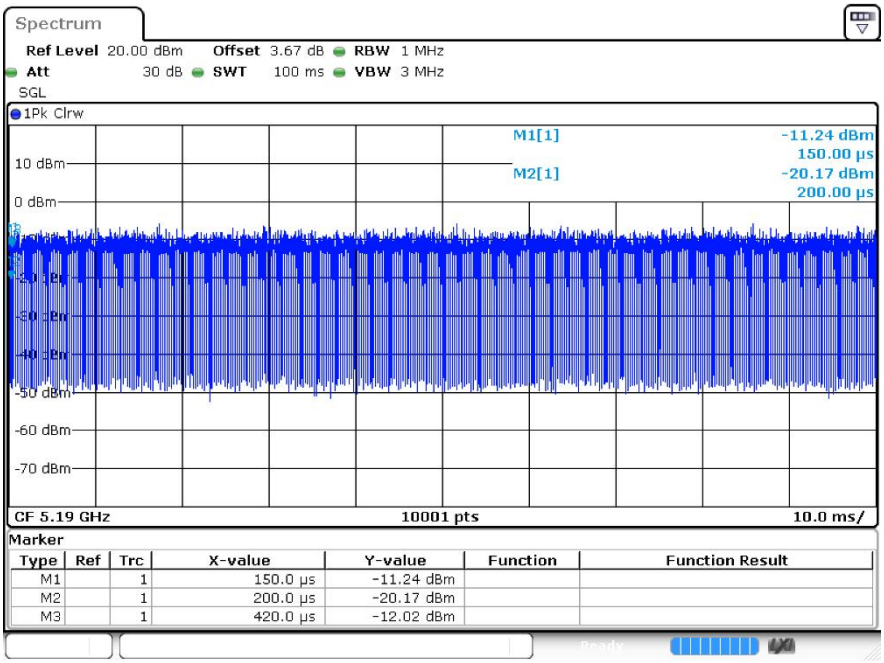
Duty Cycle ac20 5200MHz Ant1



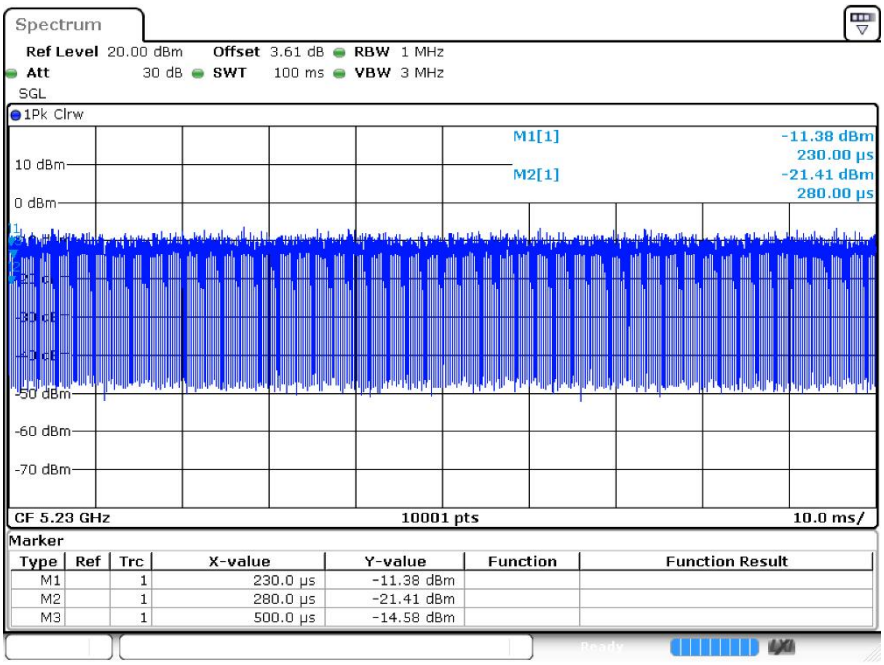
Duty Cycle ac20 5240MHz Ant1



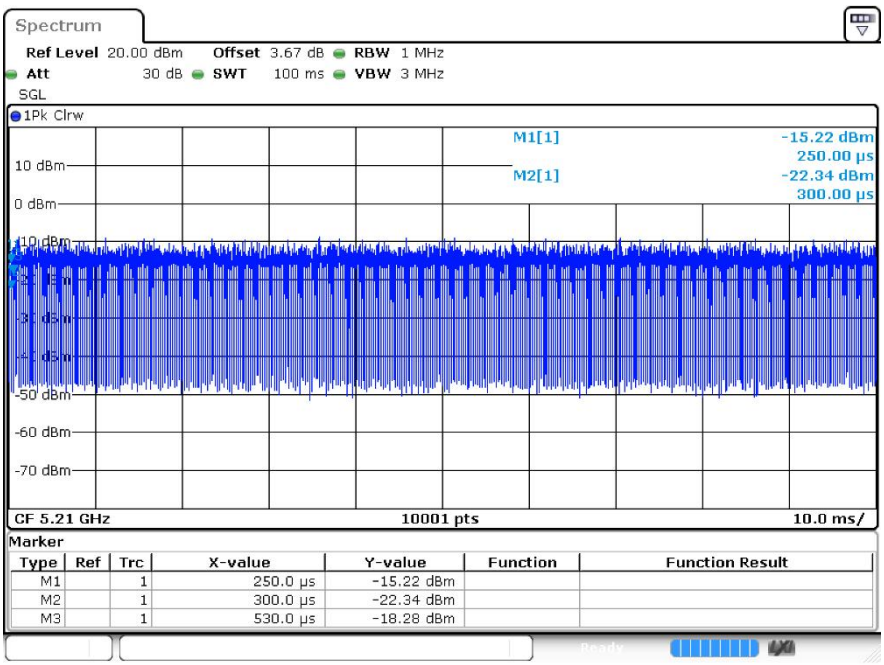
Duty Cycleac40 5190MHz Ant1



Duty Cycleac40 5230MHz Ant1



Duty Cycleac80 5210MHz Ant1



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	6.41	24	Pass
a	5200	Ant1	6.46	24	Pass
a	5240	Ant1	6.07	24	Pass
n20	5180	Ant1	5.84	24	Pass
n20	5200	Ant1	5.83	24	Pass
n20	5240	Ant1	5.66	24	Pass
n40	5190	Ant1	5.82	24	Pass
n40	5230	Ant1	5.31	24	Pass
ac20	5180	Ant1	5.98	24	Pass
ac20	5200	Ant1	5.9	24	Pass
ac20	5240	Ant1	5.49	24	Pass
ac40	5190	Ant1	5.73	24	Pass
ac40	5230	Ant1	5.12	24	Pass
ac80	5210	Ant1	5.94	24	Pass

Note:

The duty factor has been compensated into the result.

3 -26dB Bandwidth

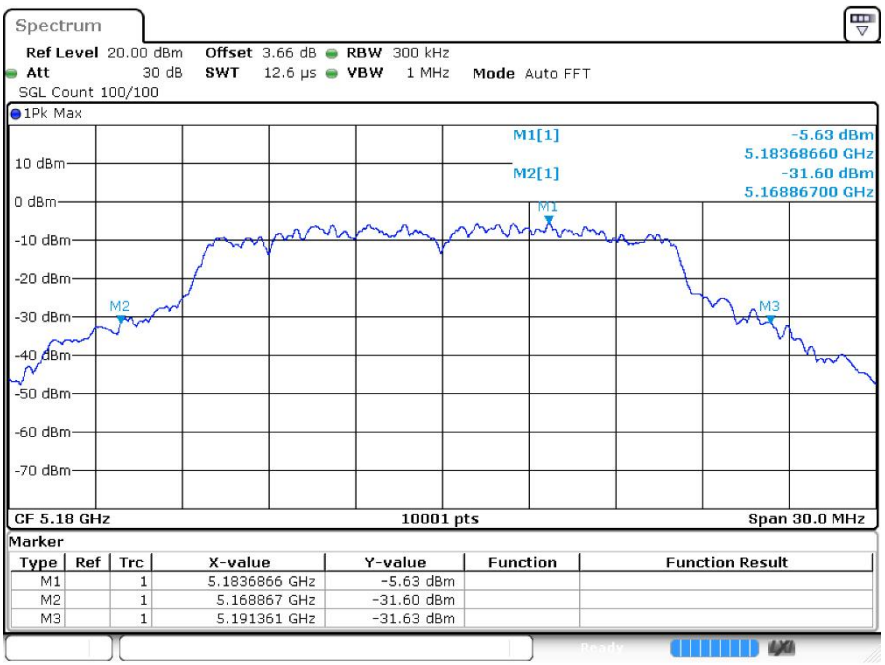
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	22.494	0.5	Pass
a	5200	Ant1	23.169	0.5	Pass
a	5240	Ant1	22.803	0.5	Pass
n20	5180	Ant1	21.774	0.5	Pass
n20	5200	Ant1	22.818	0.5	Pass
n20	5240	Ant1	24.027	0.5	Pass
n40	5190	Ant1	42.75	0.5	Pass
n40	5230	Ant1	42.744	0.5	Pass
ac20	5180	Ant1	22.233	0.5	Pass
ac20	5200	Ant1	22.542	0.5	Pass
ac20	5240	Ant1	23.079	0.5	Pass
ac40	5190	Ant1	41.322	0.5	Pass
ac40	5230	Ant1	42.636	0.5	Pass
ac80	5210	Ant1	83.544	0.5	Pass

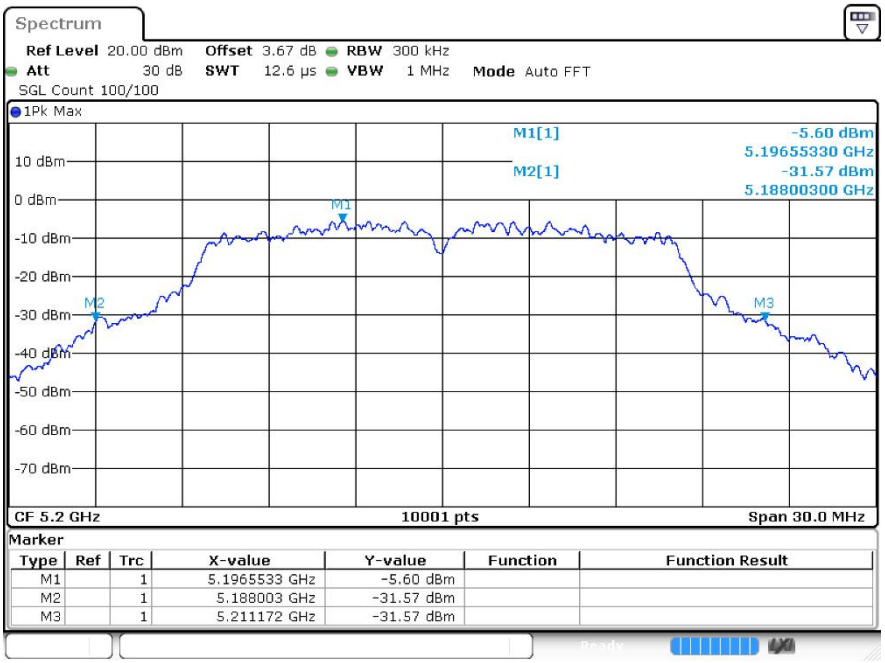
3.2 Test Graphs

Test Graphs

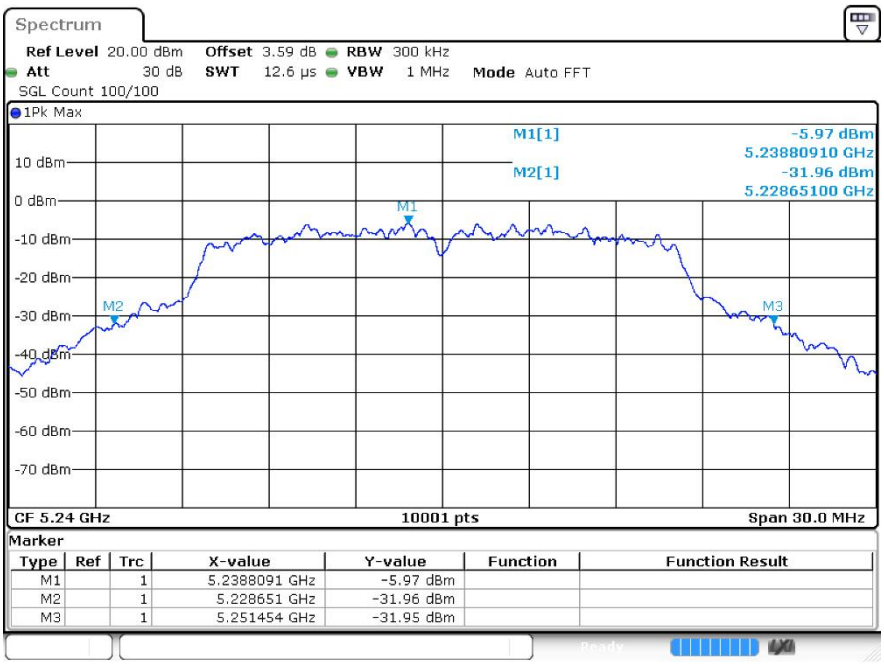
-26dB Bandwidtha 5180MHz Ant1



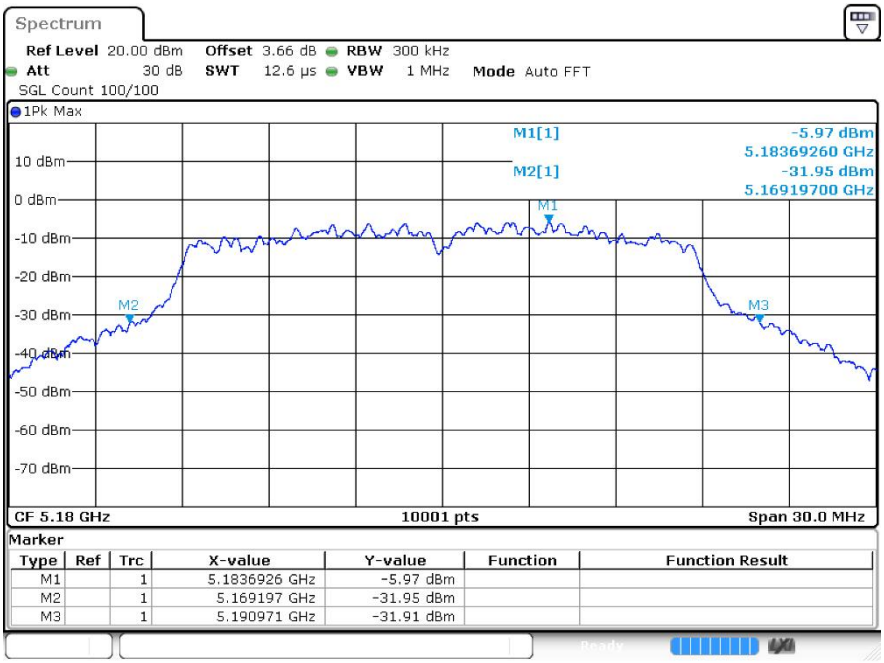
-26dB Bandwidtha 5200MHz Ant1



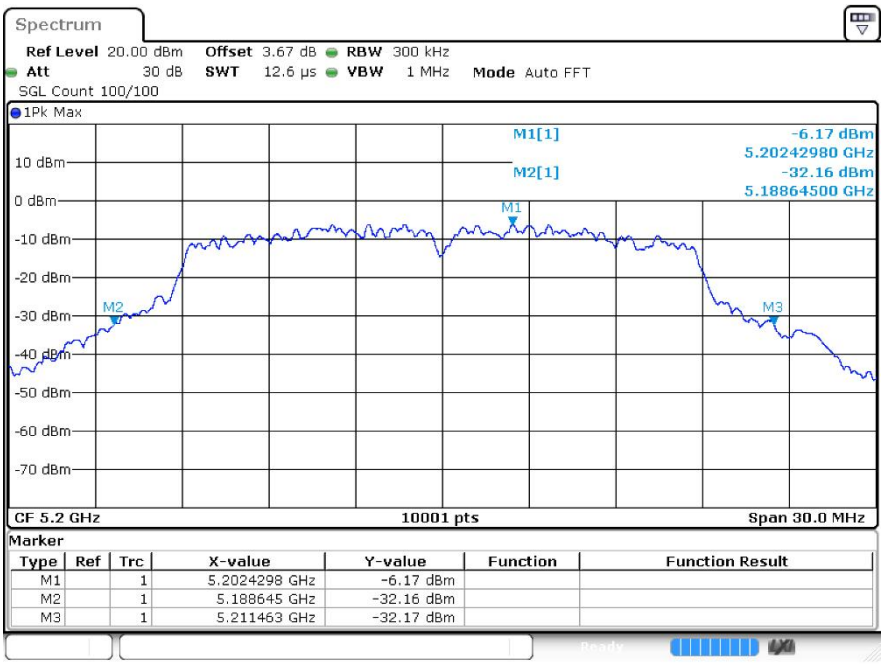
-26dB Bandwidtha 5240MHz Ant1



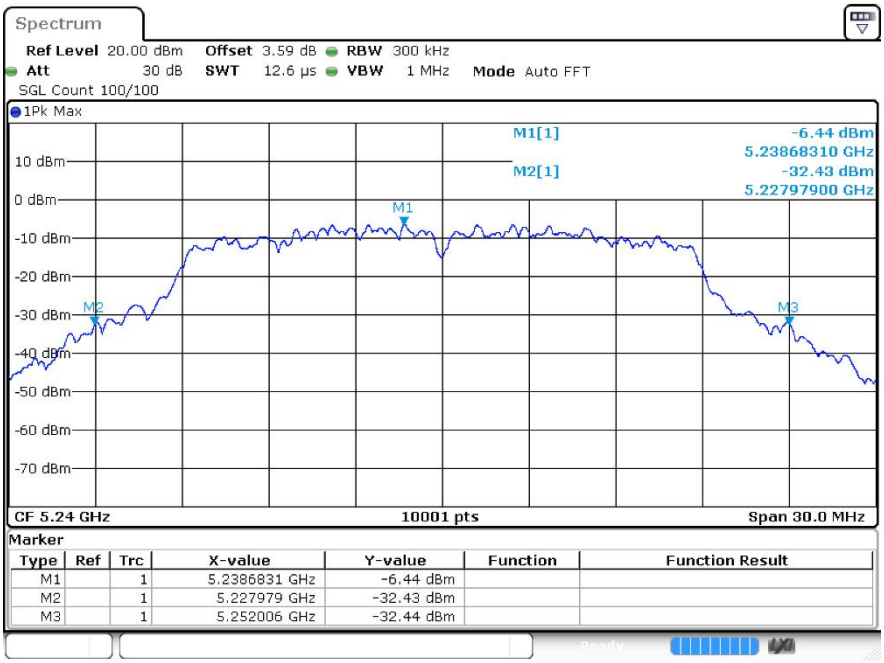
-26dB Bandwidth n20 5180MHz Ant1



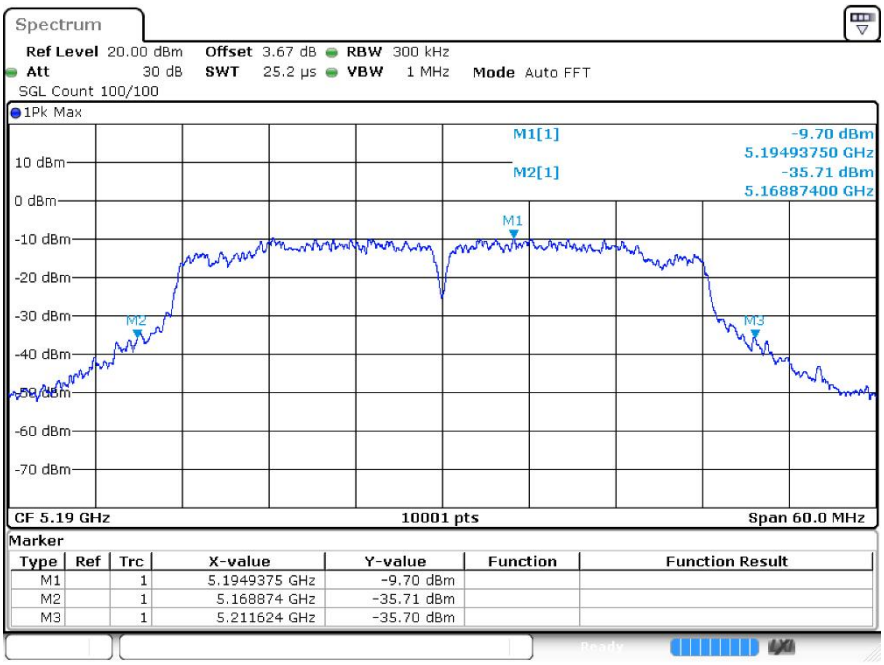
-26dB Bandwidth n20 5200MHz Ant1



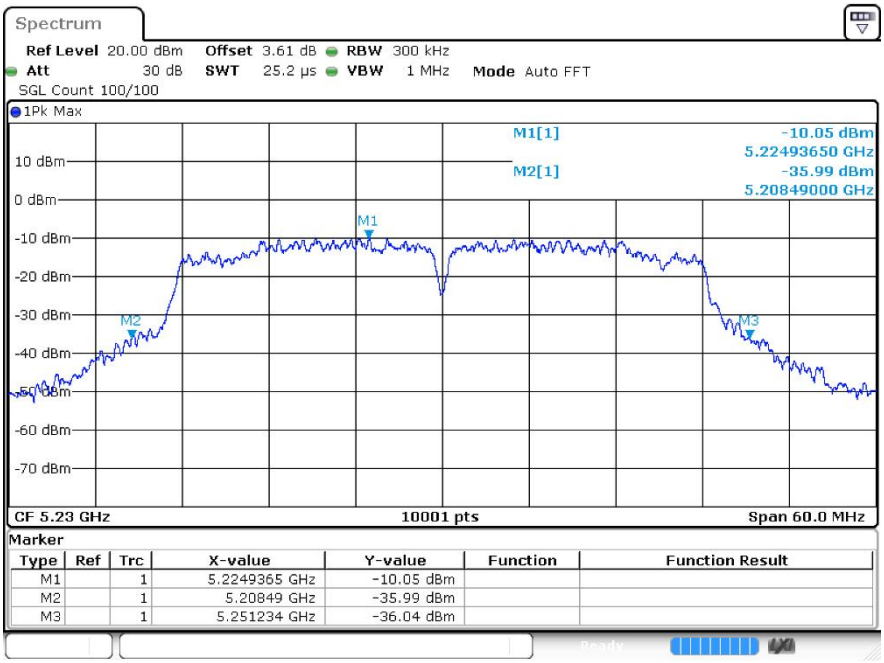
-26dB Bandwidth n20 5240MHz Ant1



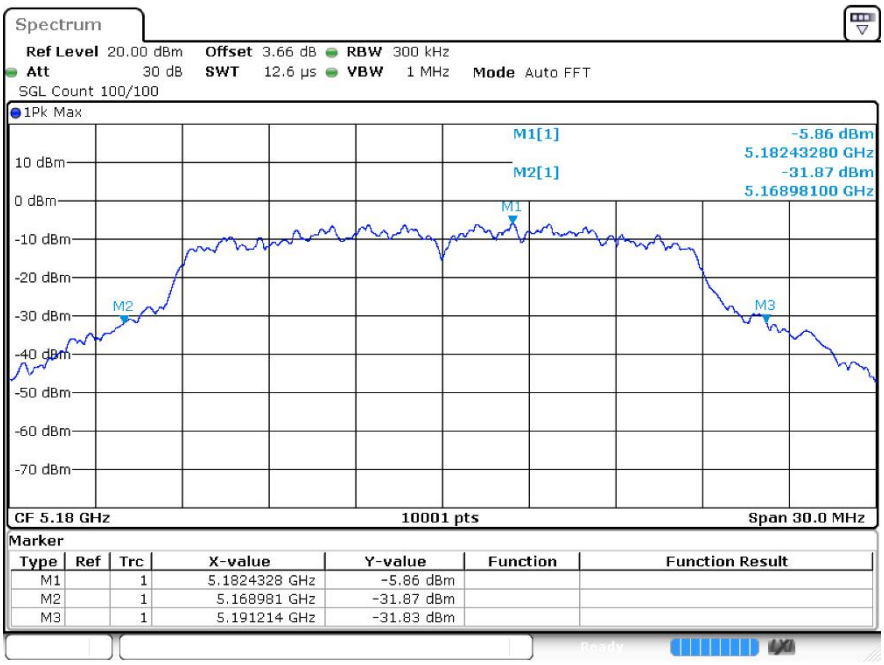
-26dB Bandwidthn40 5190MHz Ant1



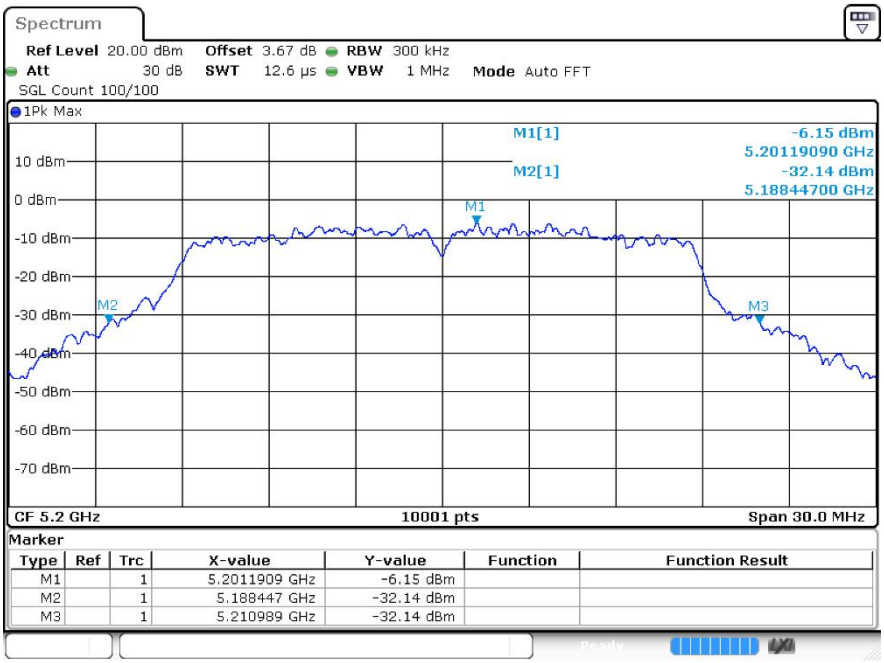
-26dB Bandwidthn40 5230MHz Ant1



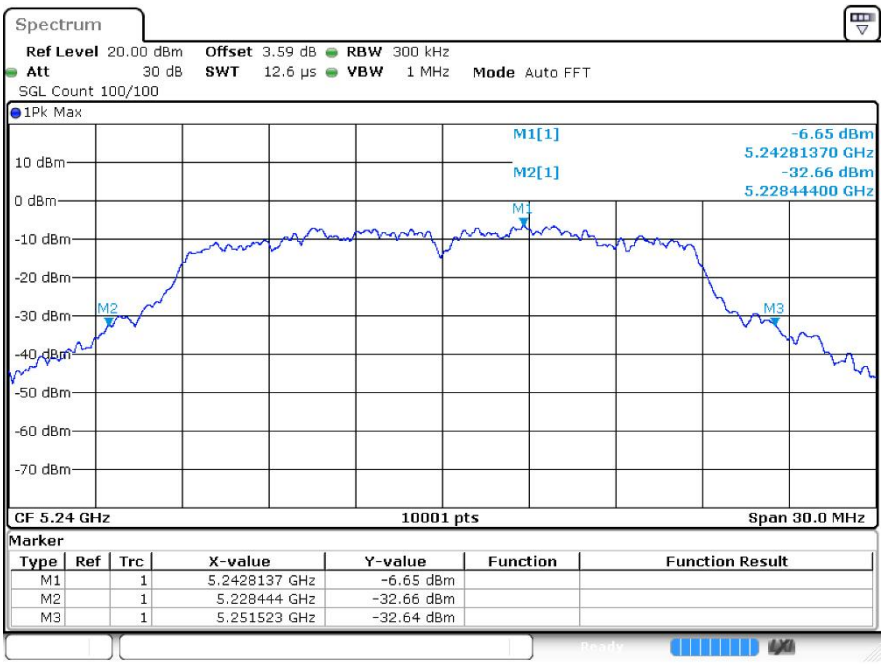
-26dB Bandwidth ac20 5180MHz Ant1



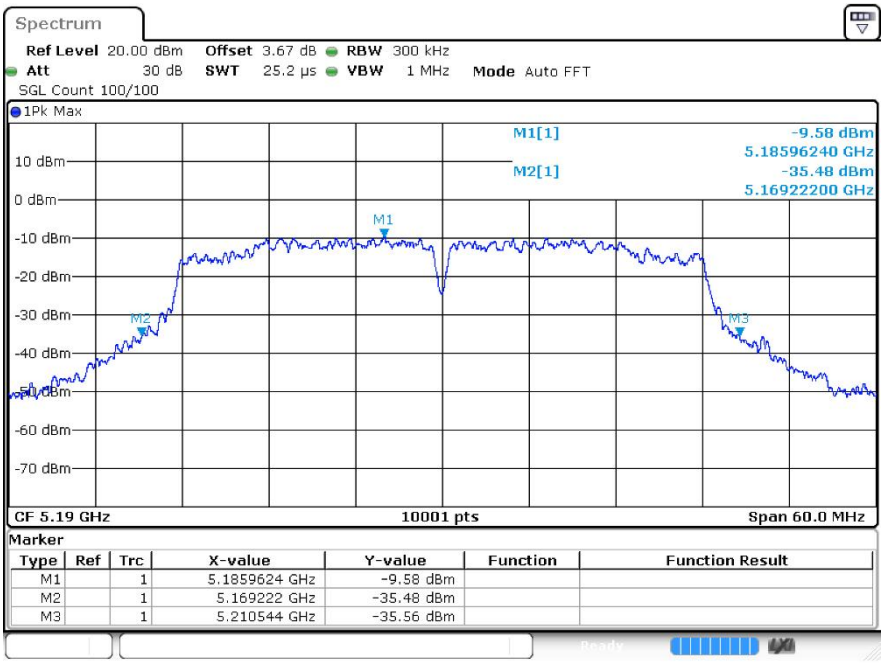
-26dB Bandwidth ac20 5200MHz Ant1



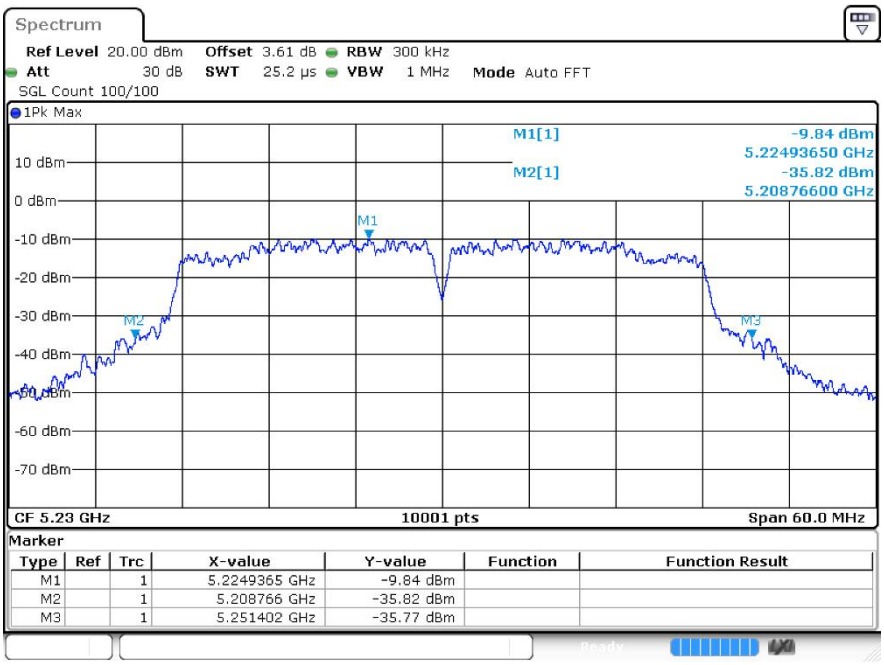
-26dB Bandwidth ac20 5240MHz Ant1



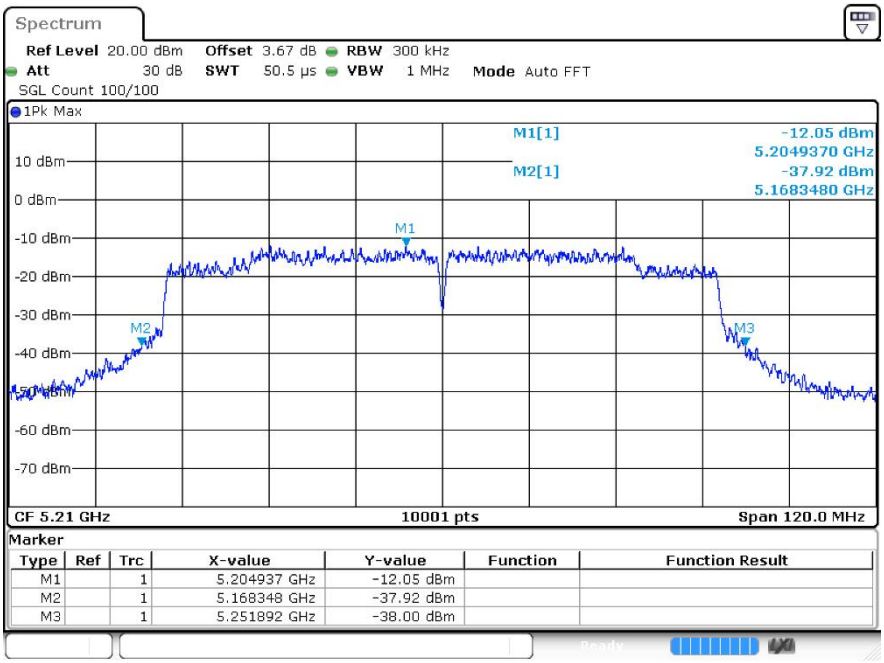
-26dB Bandwidthac40 5190MHz Ant1



-26dB Bandwidthac40 5230MHz Ant1



-26dB Bandwidthac80 5210MHz Ant1



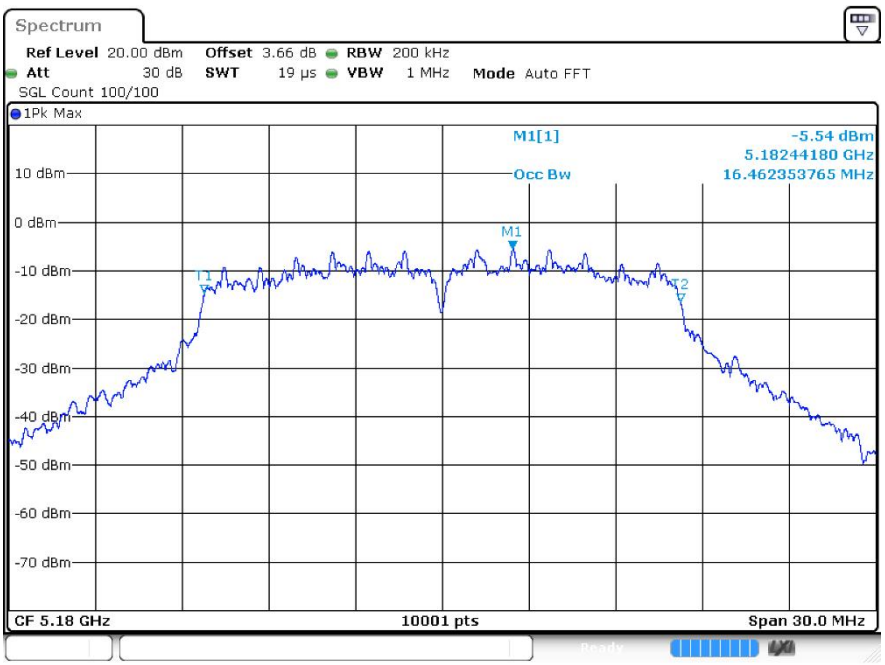
4 Occupied Channel Bandwidth

4.1 Test Result

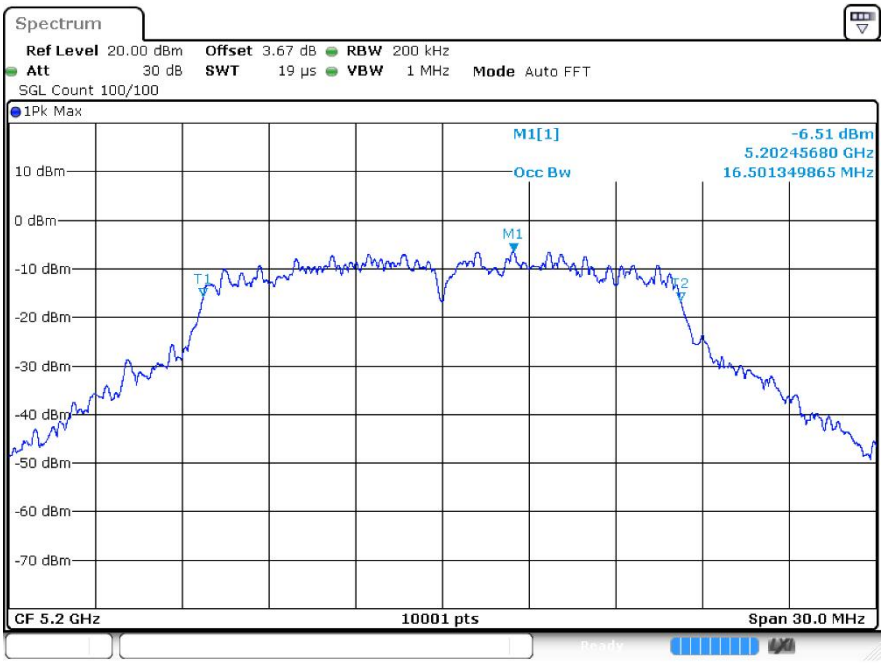
Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.462
a	5200	Ant1	16.501
a	5240	Ant1	16.462
n20	5180	Ant1	17.608
n20	5200	Ant1	17.572
n20	5240	Ant1	17.578
n40	5190	Ant1	36.098
n40	5230	Ant1	36.074
ac20	5180	Ant1	17.62
ac20	5200	Ant1	17.614
ac20	5240	Ant1	17.743
ac40	5190	Ant1	36.044
ac40	5230	Ant1	36.014
ac80	5210	Ant1	75.256

4.2 Test Graphs

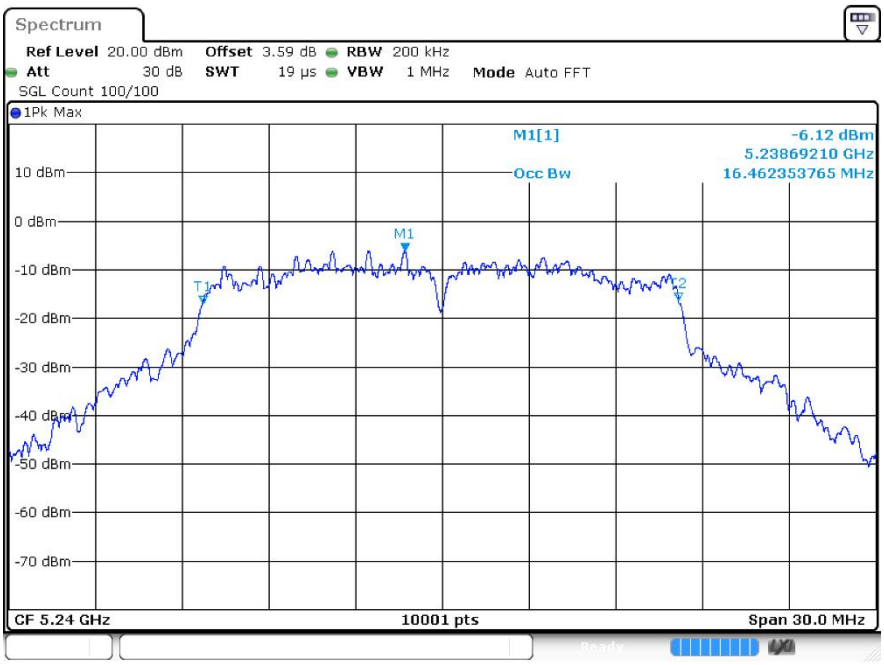
Test Graphs
OBWa 5180MHz Ant1



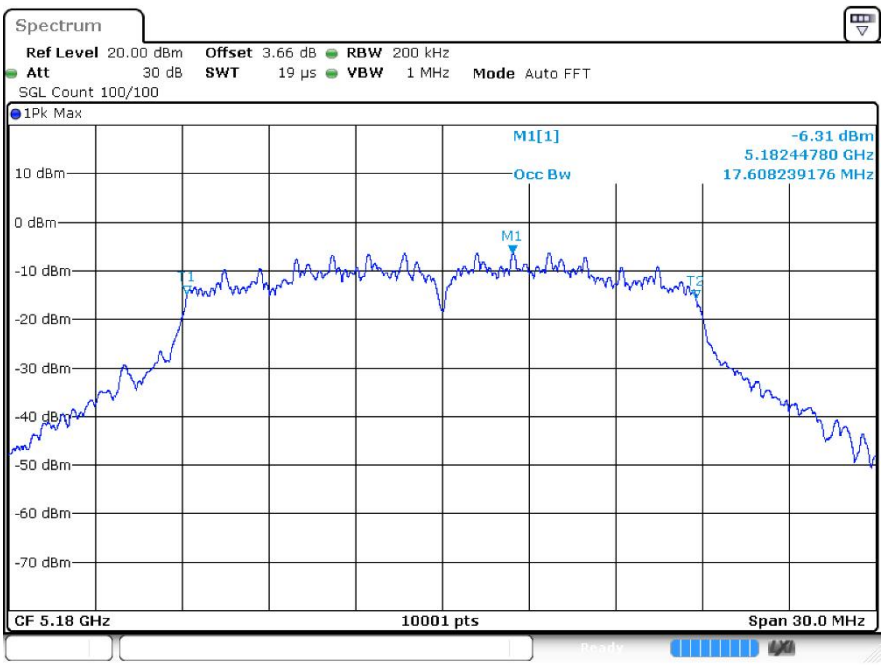
OBWa 5200MHz Ant1



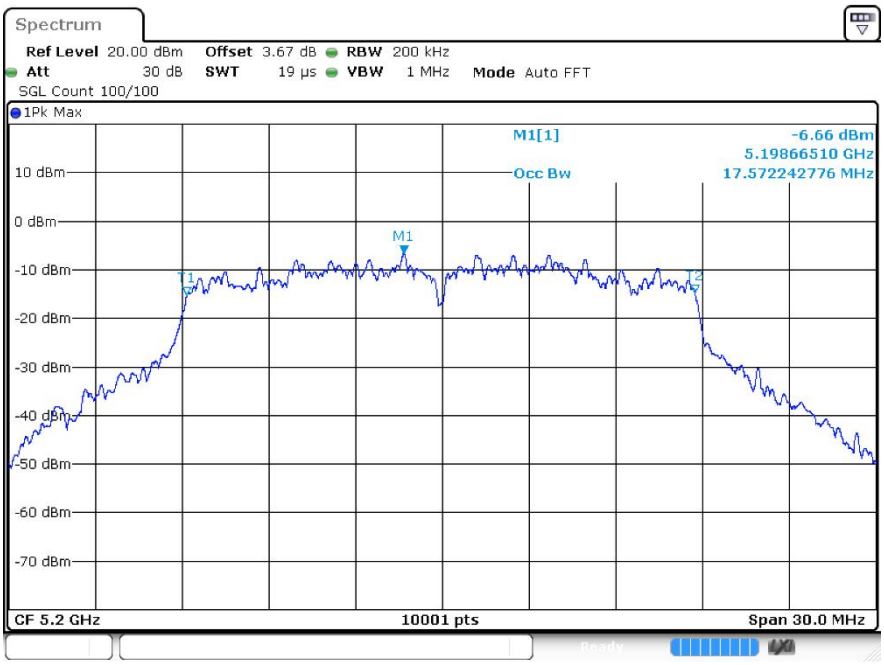
OBWa 5240MHz Ant1



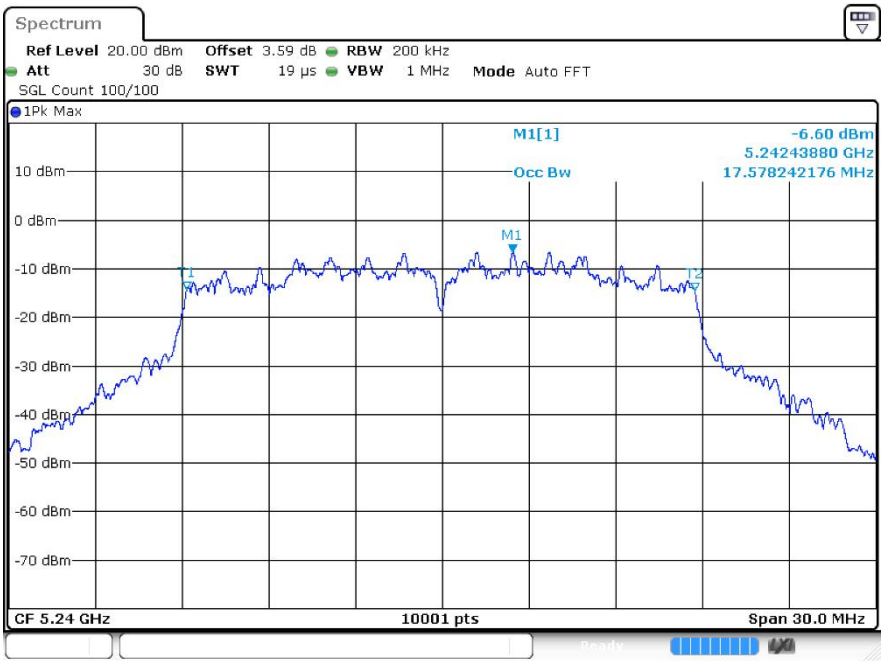
OBW n20 5180MHz Ant1



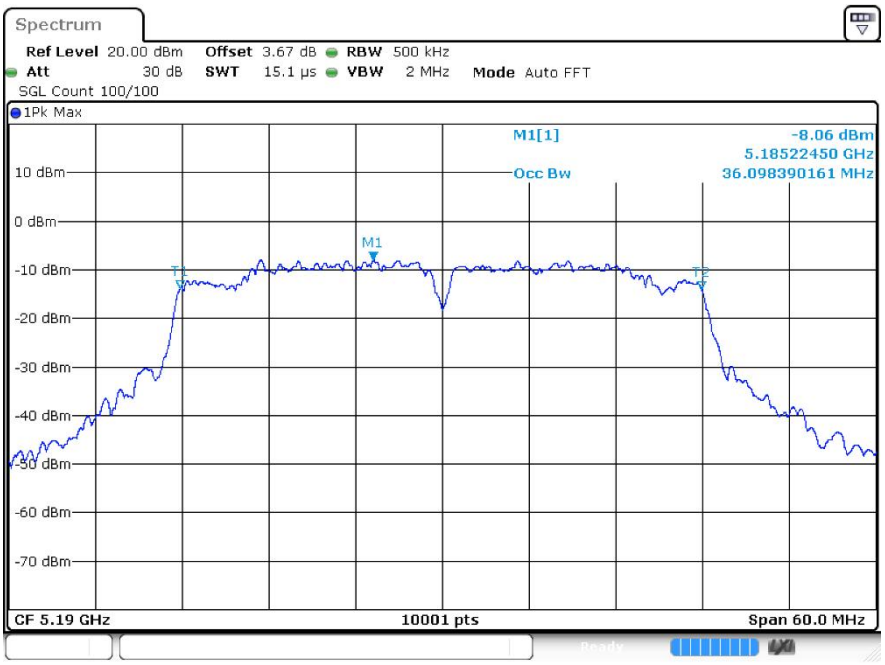
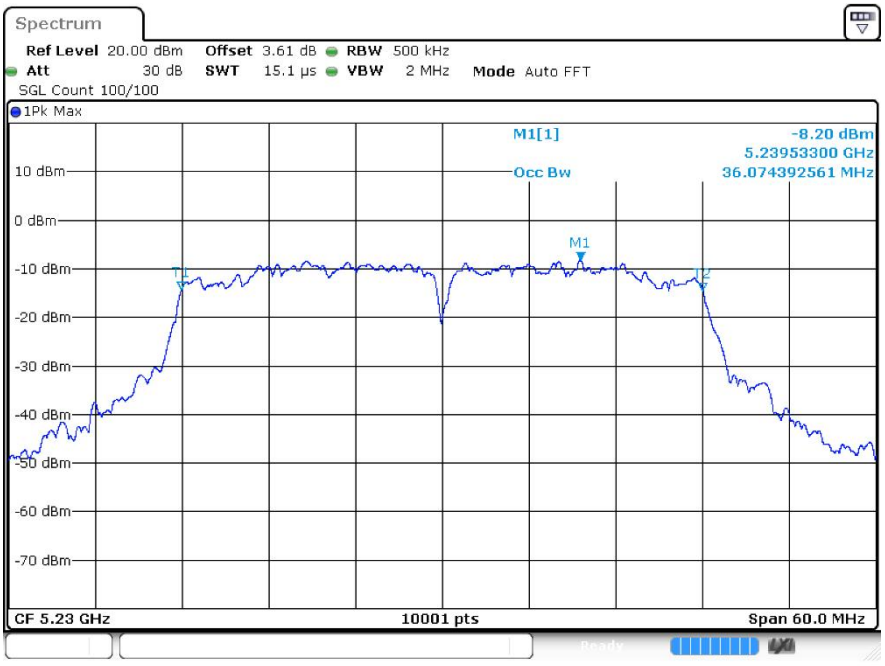
OBW n20 5200MHz Ant1



OBW n20 5240MHz Ant1



OBWn40 5190MHz Ant1



OBWn40 5230MHz Ant1