



Appendix D

RF Test Data for B1WIFI(Conducted Measurement)

Product Name: Viewedge Tab 11

Trade Mark: N/A

Test Model: V11

Environmental Conditions

Temperature:	25.6° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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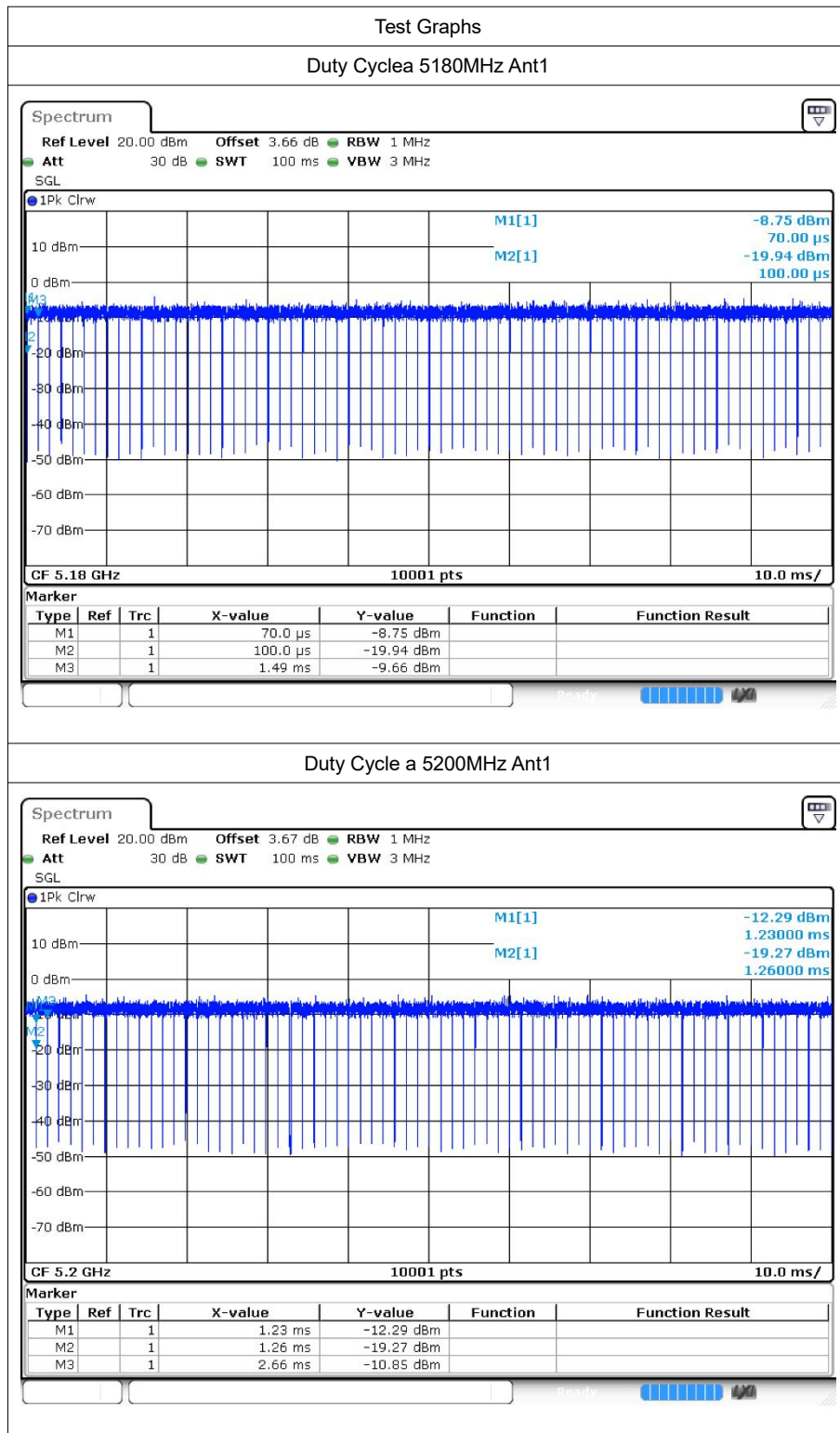


1 Duty Cycle

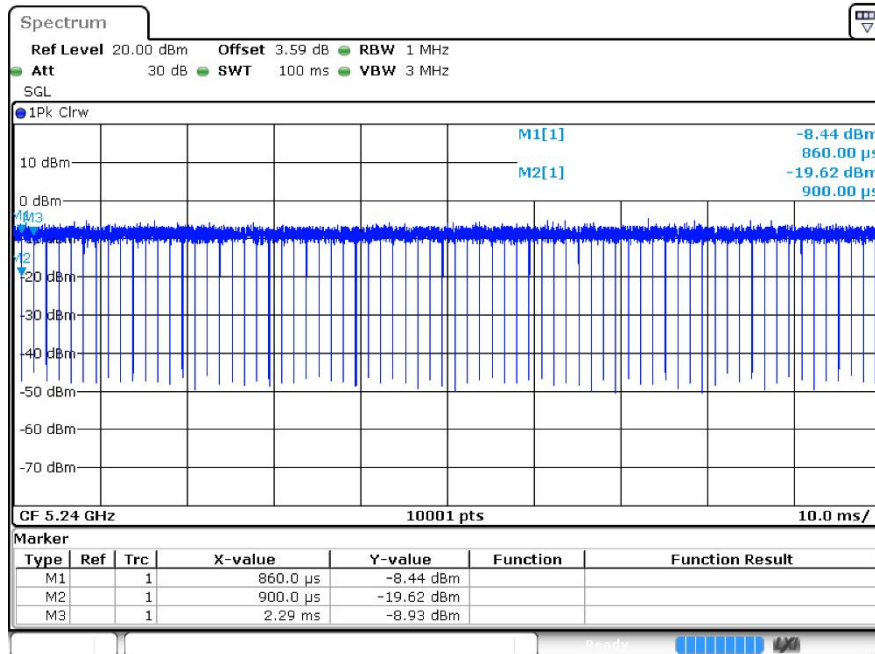
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	98.2	0.08	0.72
a	5200	Ant1	97.98	0.09	0.71
a	5240	Ant1	98.2	0.08	0.72
n20	5180	Ant1	98.07	0.08	0.77
n20	5200	Ant1	98.09	0.08	0.77
n20	5240	Ant1	98.08	0.08	0.77
ac20	5180	Ant1	98.09	0.08	0.76
ac20	5200	Ant1	98.14	0.08	0.76
ac20	5240	Ant1	98.11	0.08	0.76
ac40	5190	Ant1	93.33	0.3	鑒?
ac40	5230	Ant1	91.46	0.39	1.59

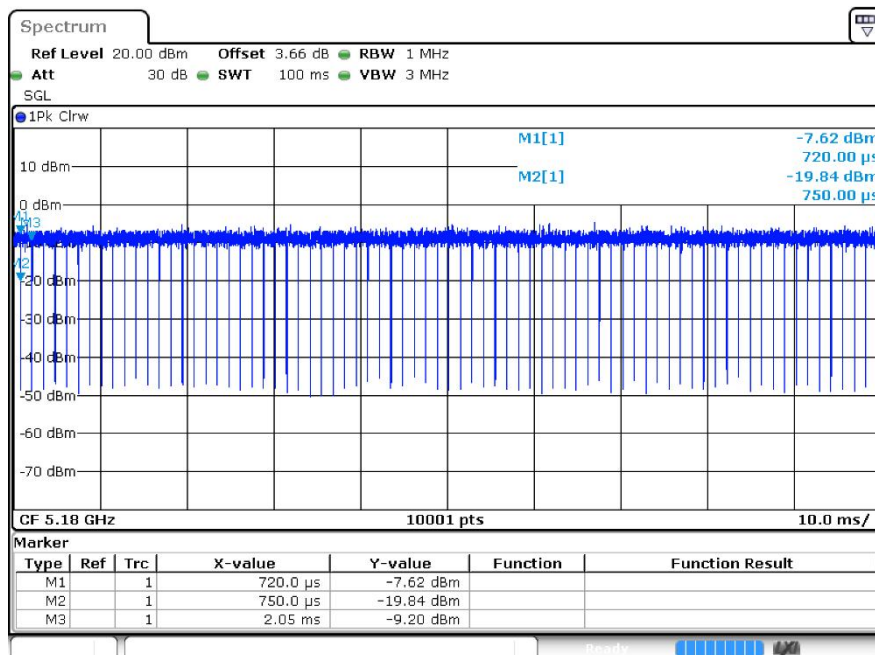
1.2 Test Graphs



Duty Cyclea 5240MHz Ant1

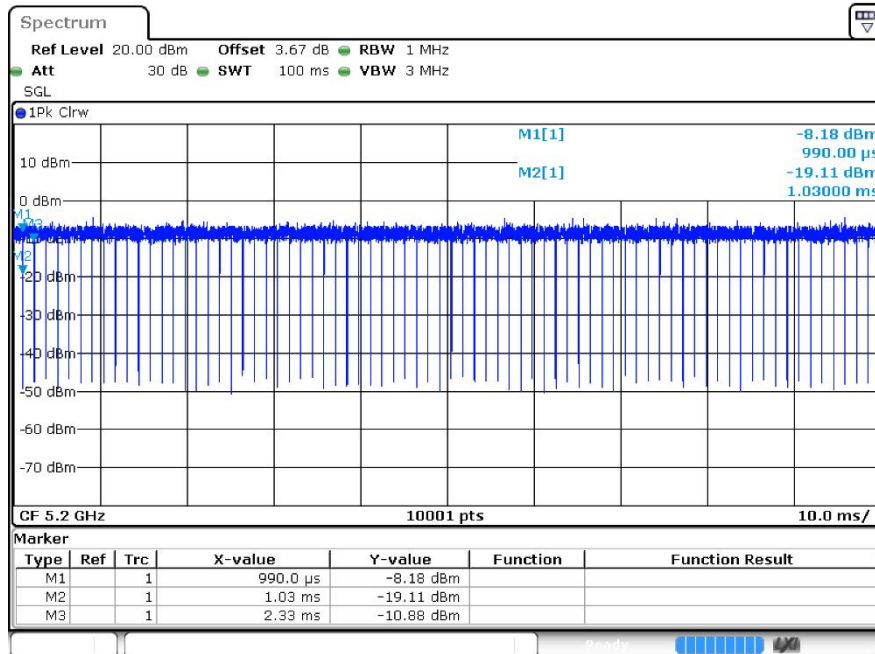


Duty Cycle n20 5180MHz Ant1

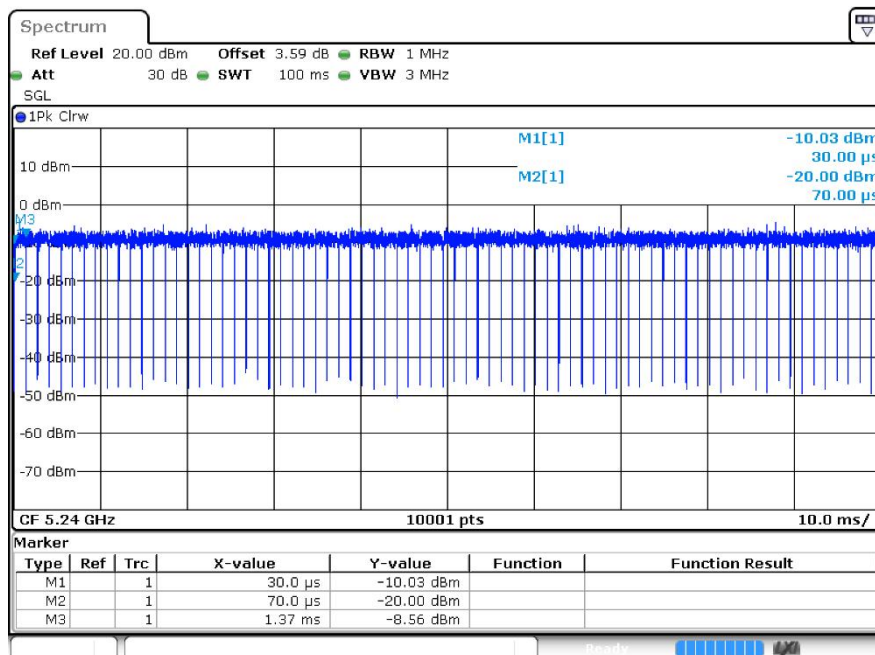




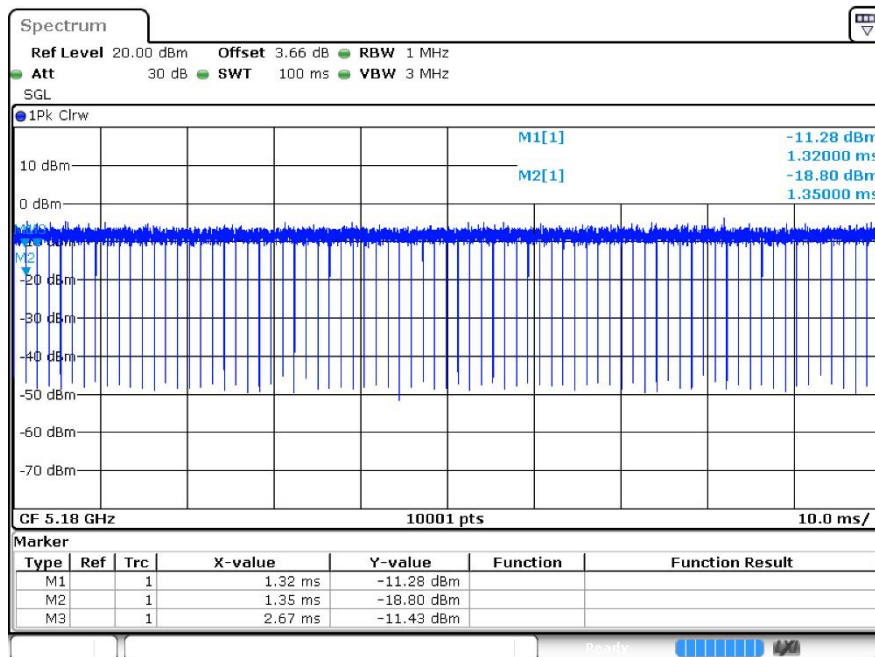
Duty Cycle n20 5200MHz Ant1



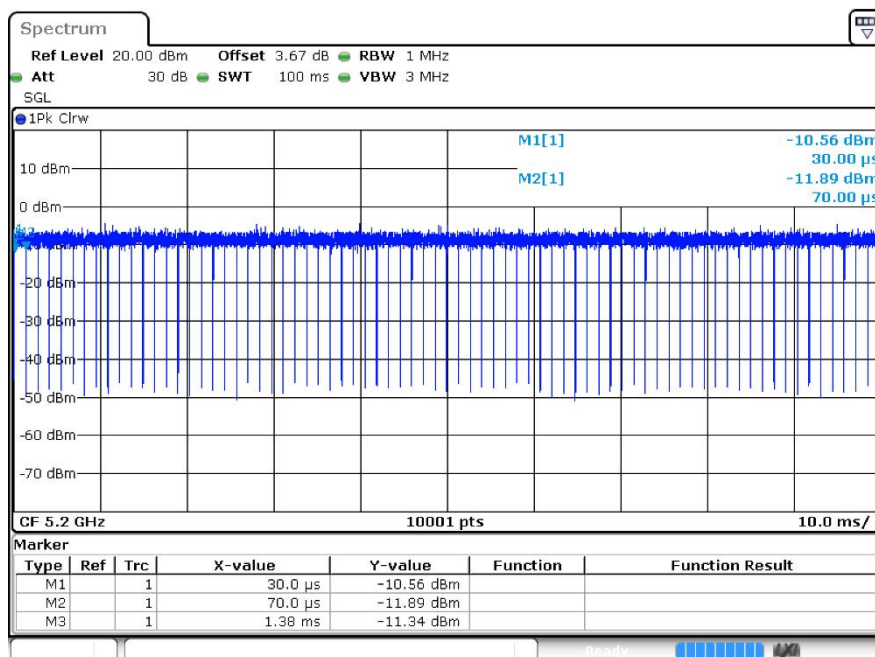
Duty Cycle n20 5240MHz Ant1



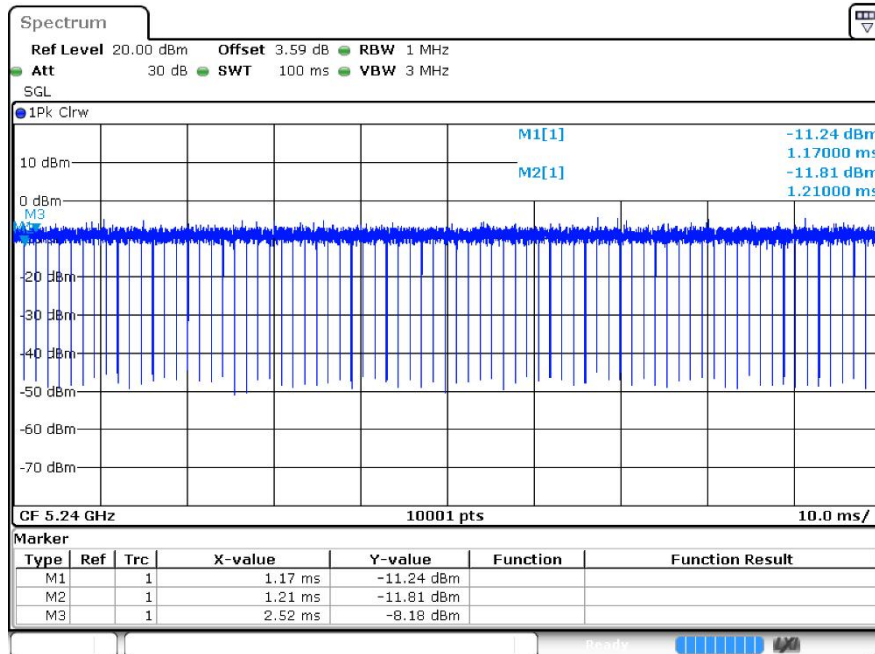
Duty Cycle ac20 5180MHz Ant1



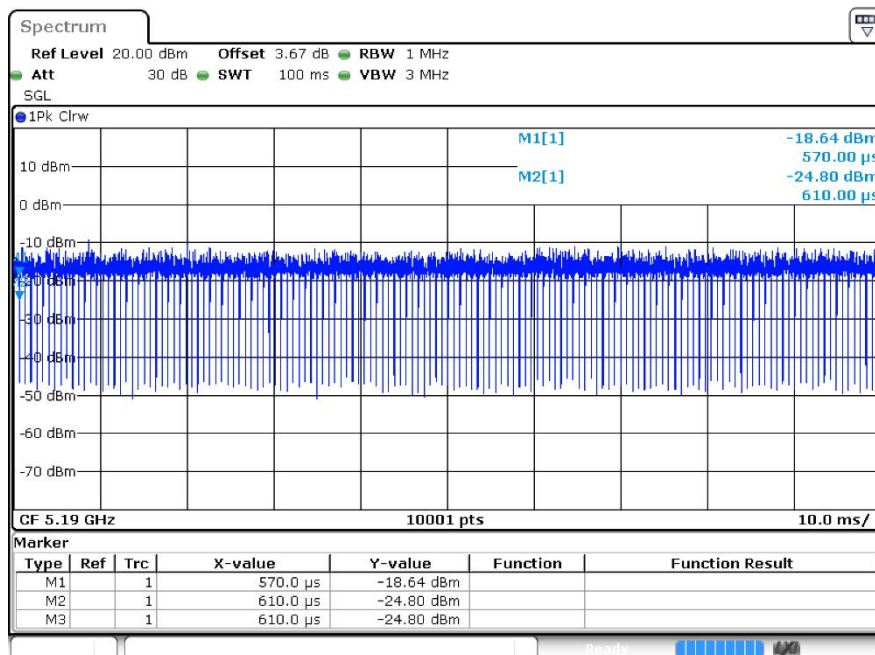
Duty Cycle ac20 5200MHz Ant1

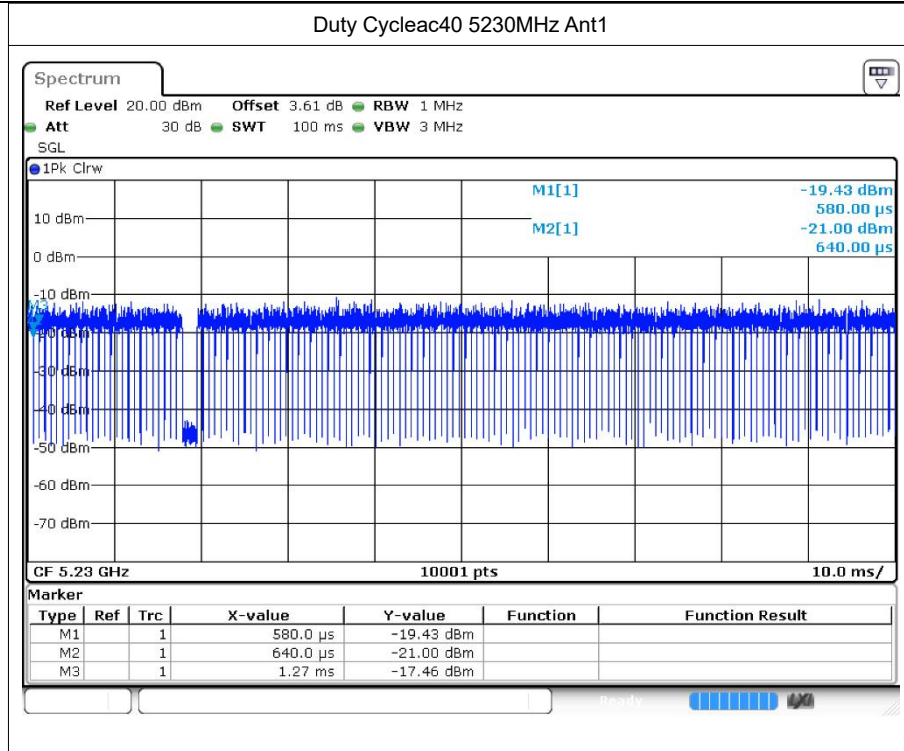


Duty Cycle ac20 5240MHz Ant1



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	-0.30	24	Pass
a	5200	Ant1	-0.11	24	Pass
a	5240	Ant1	-0.63	24	Pass
n20	5180	Ant1	-0.38	24	Pass
n20	5200	Ant1	-0.26	24	Pass
n20	5240	Ant1	-0.72	24	Pass
ac20	5180	Ant1	-0.21	24	Pass
ac20	5200	Ant1	-0.29	24	Pass
ac20	5240	Ant1	-0.79	24	Pass
ac40	5190	Ant1	-1.38	24	Pass
ac40	5230	Ant1	-1.80	24	Pass

Note:

The duty factor has been compensated into the result.

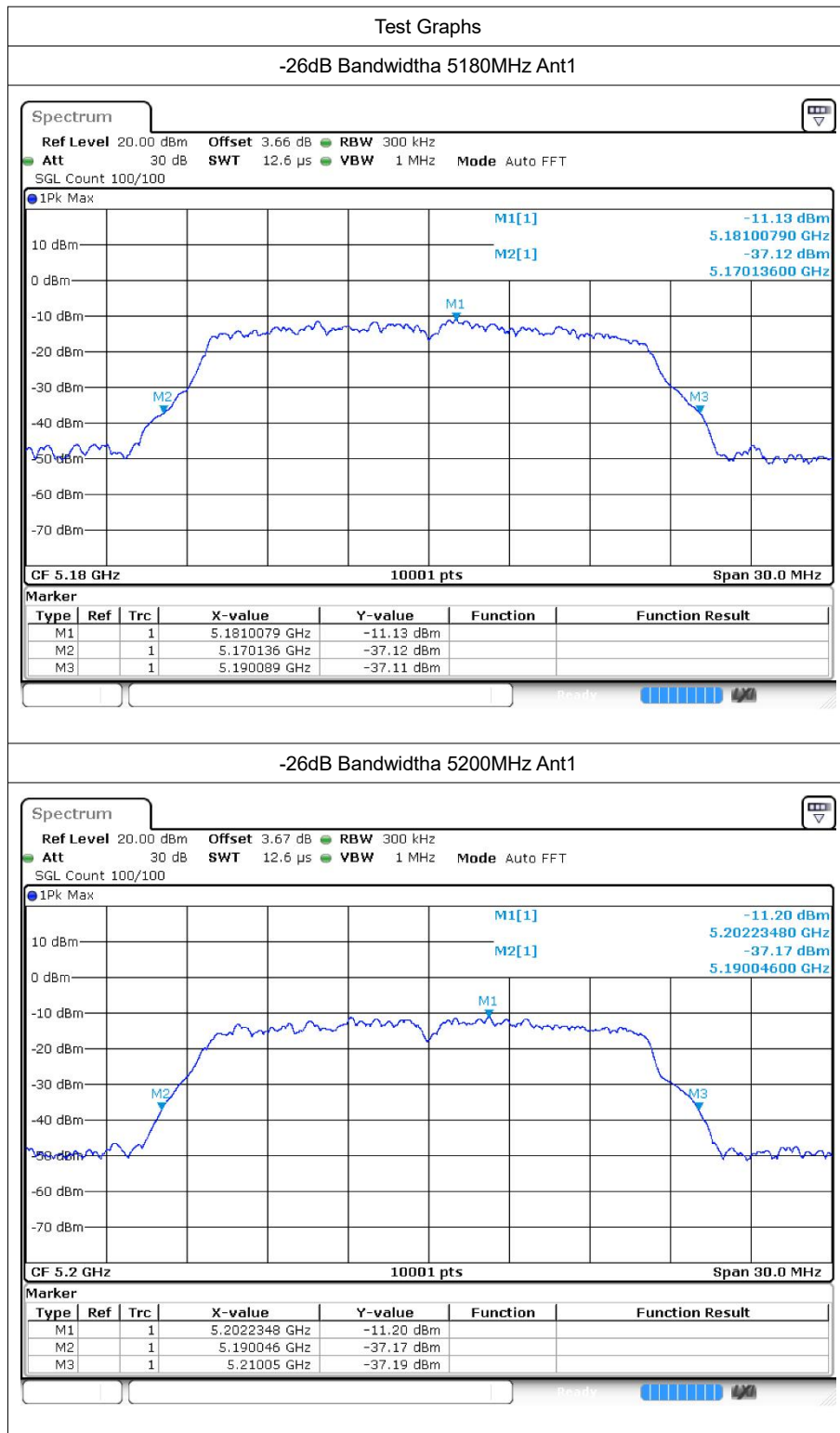


3 -26dB Bandwidth

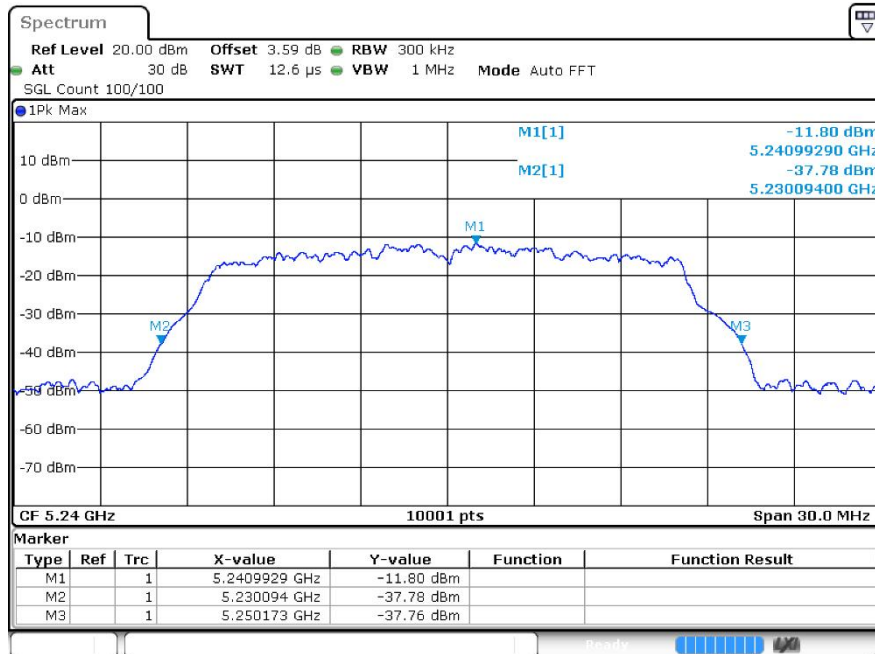
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	19.953	0.5	Pass
a	5200	Ant1	20.004	0.5	Pass
a	5240	Ant1	20.079	0.5	Pass
n20	5180	Ant1	19.827	0.5	Pass
n20	5200	Ant1	20.136	0.5	Pass
n20	5240	Ant1	20.22	0.5	Pass
ac20	5180	Ant1	20.244	0.5	Pass
ac20	5200	Ant1	20.103	0.5	Pass
ac20	5240	Ant1	20.043	0.5	Pass
ac40	5190	Ant1	39.15	0.5	Pass
ac40	5230	Ant1	39.306	0.5	Pass

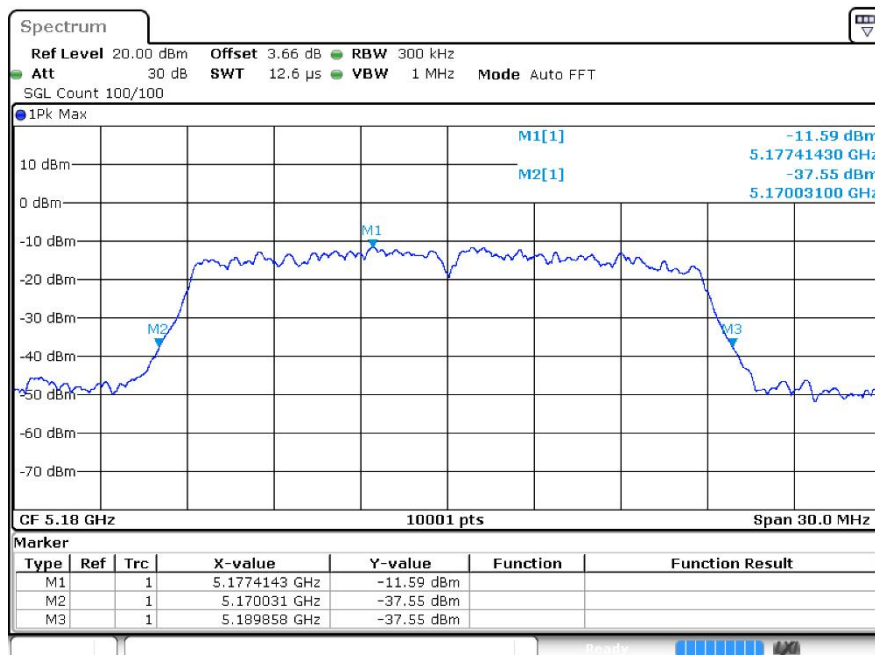
3.2 Test Graphs



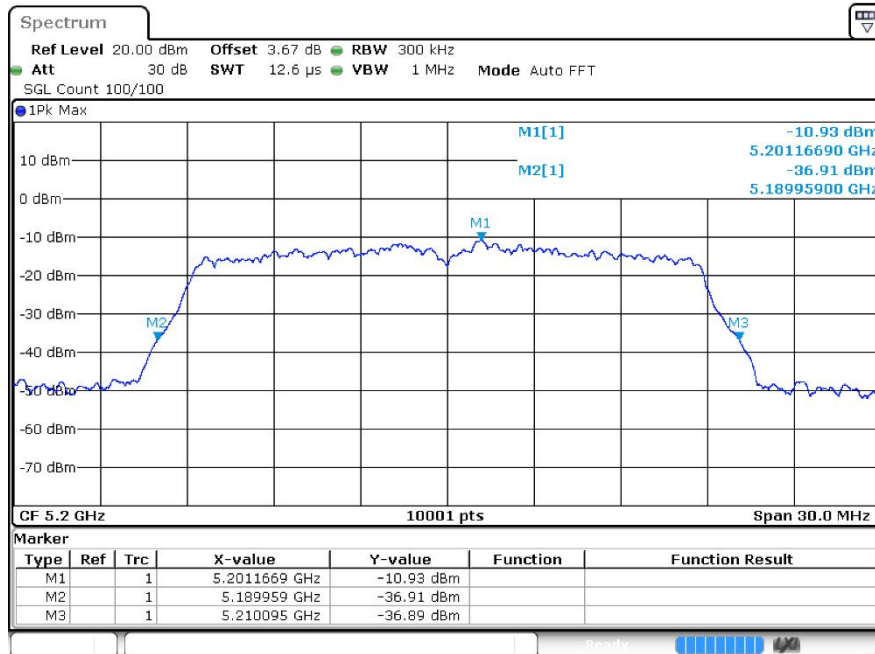
-26dB Bandwidtha 5240MHz Ant1



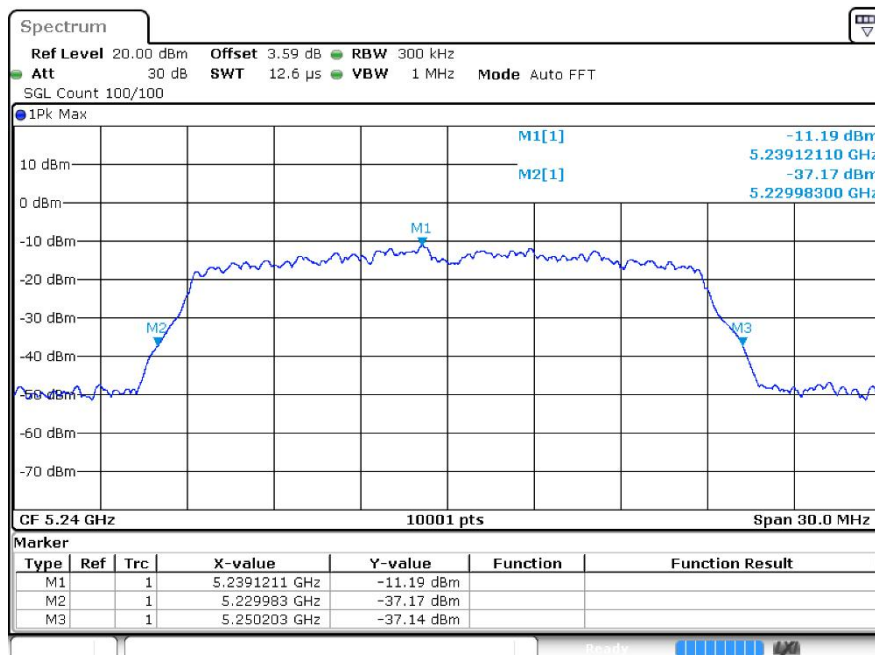
-26dB Bandwidth n20 5180MHz Ant1



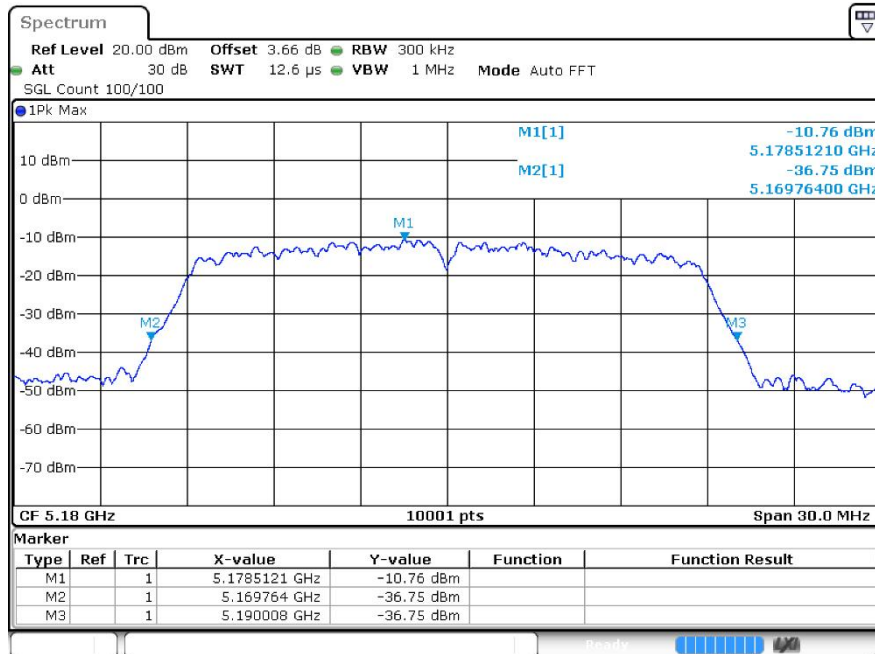
-26dB Bandwidth n20 5200MHz Ant1



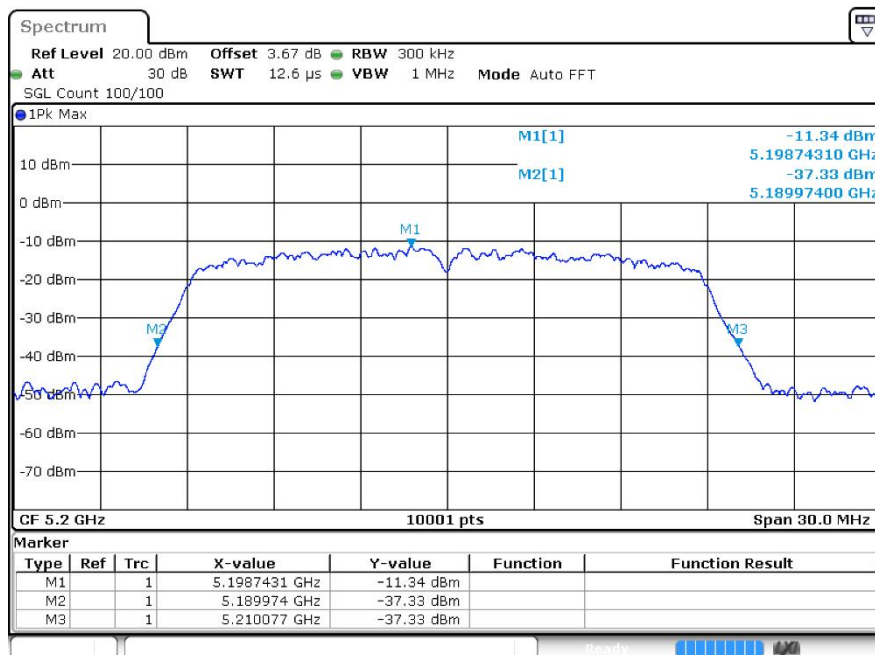
-26dB Bandwidth n20 5240MHz Ant1



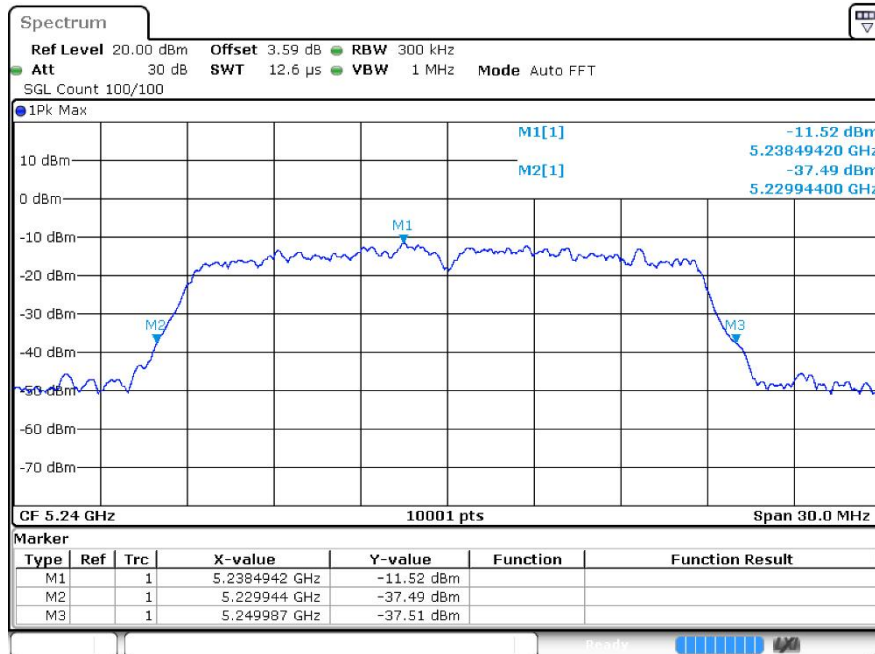
-26dB Bandwidth ac20 5180MHz Ant1



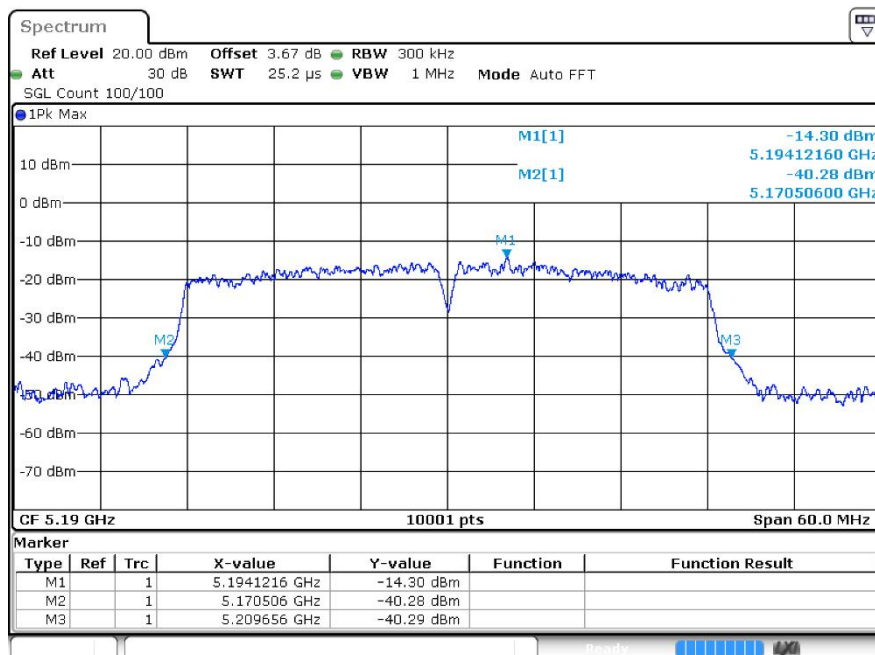
-26dB Bandwidth ac20 5200MHz Ant1

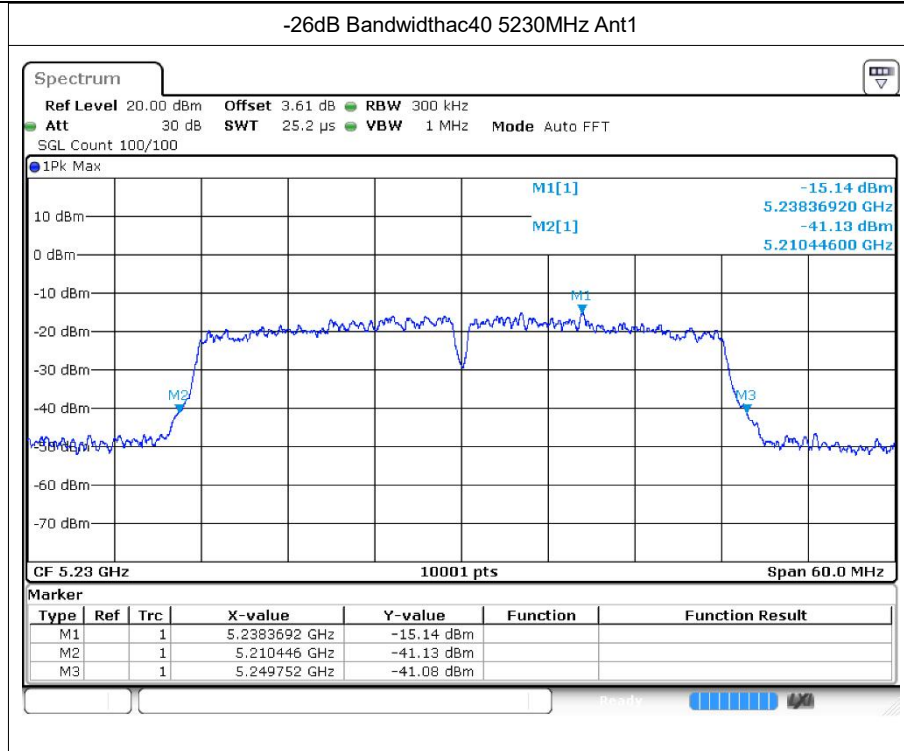


-26dB Bandwidth ac20 5240MHz Ant1



-26dB Bandwidthac40 5190MHz Ant1





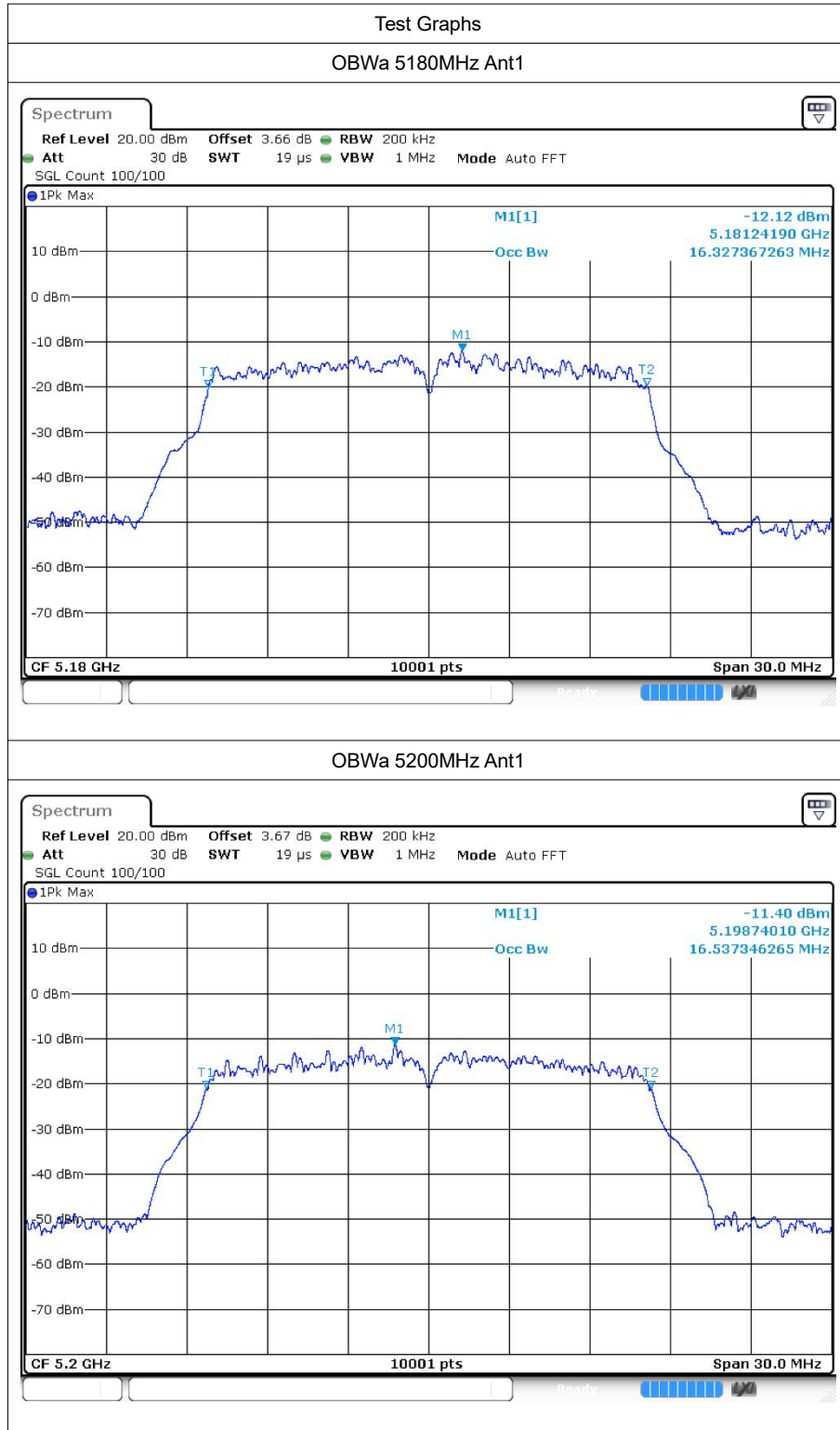


4 Occupied Channel Bandwidth

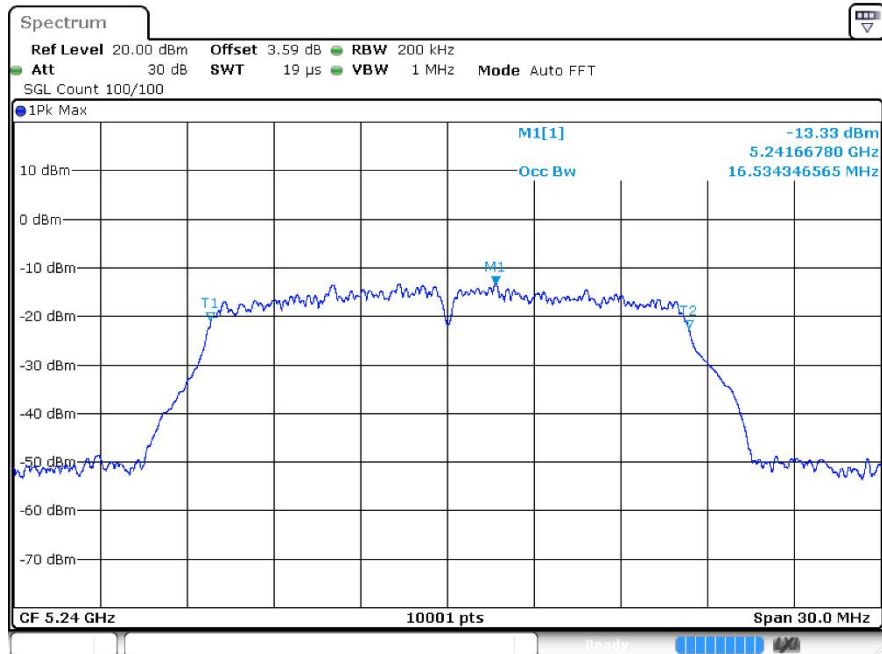
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.327
a	5200	Ant1	16.537
a	5240	Ant1	16.534
n20	5180	Ant1	17.587
n20	5200	Ant1	17.626
n20	5240	Ant1	17.656
ac20	5180	Ant1	17.566
ac20	5200	Ant1	17.554
ac20	5240	Ant1	17.5
ac40	5190	Ant1	35.942
ac40	5230	Ant1	36.224

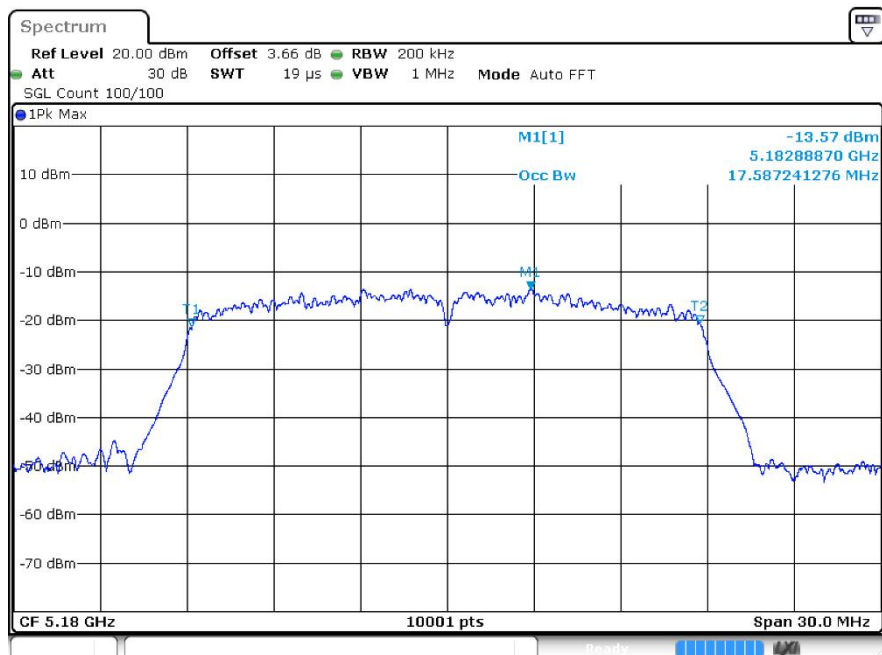
4.2 Test Graphs



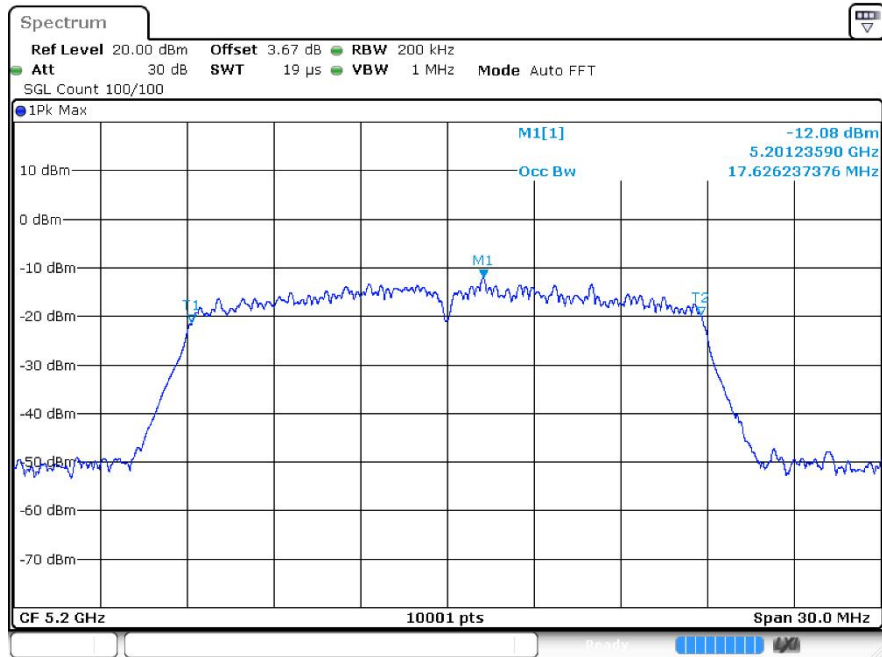
OBWa 5240MHz Ant1



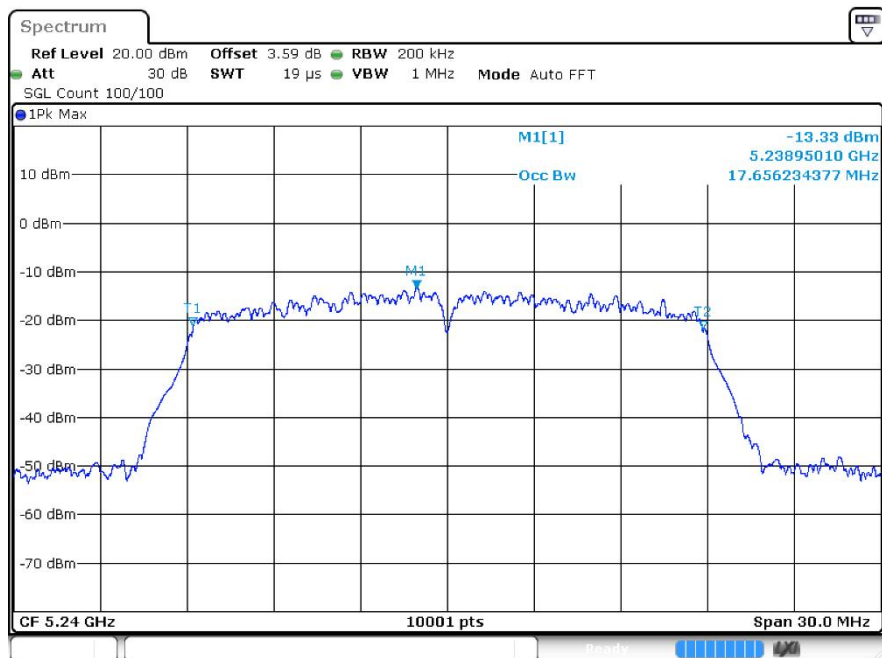
OBW n20 5180MHz Ant1



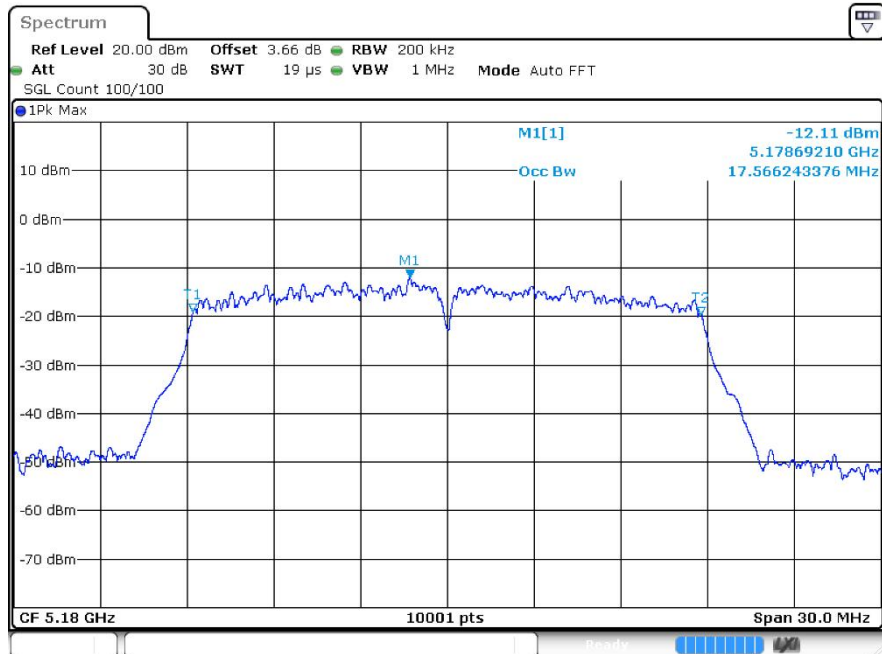
OBW n20 5200MHz Ant1



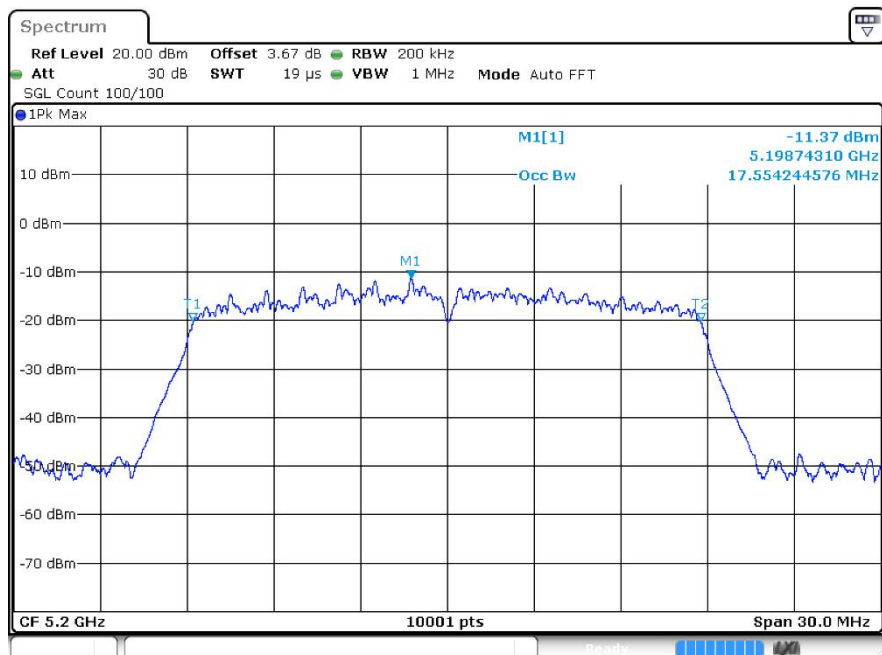
OBW n20 5240MHz Ant1



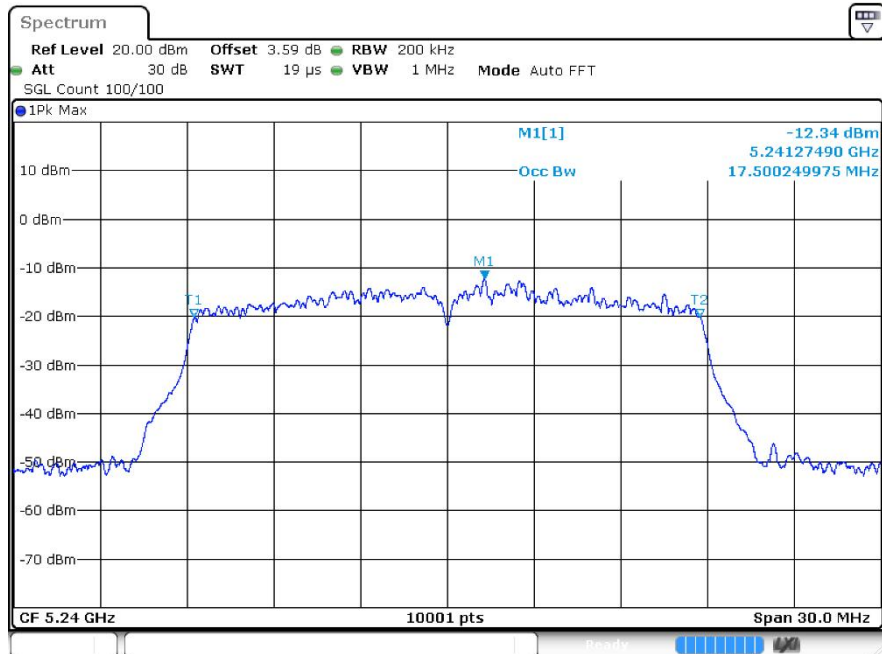
OBW ac20 5180MHz Ant1



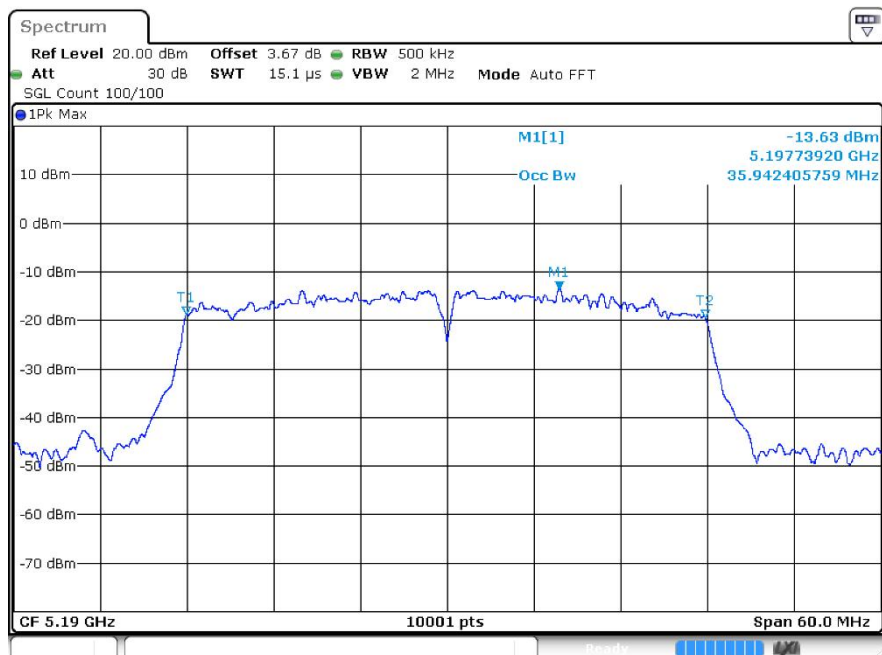
OBW ac20 5200MHz Ant1

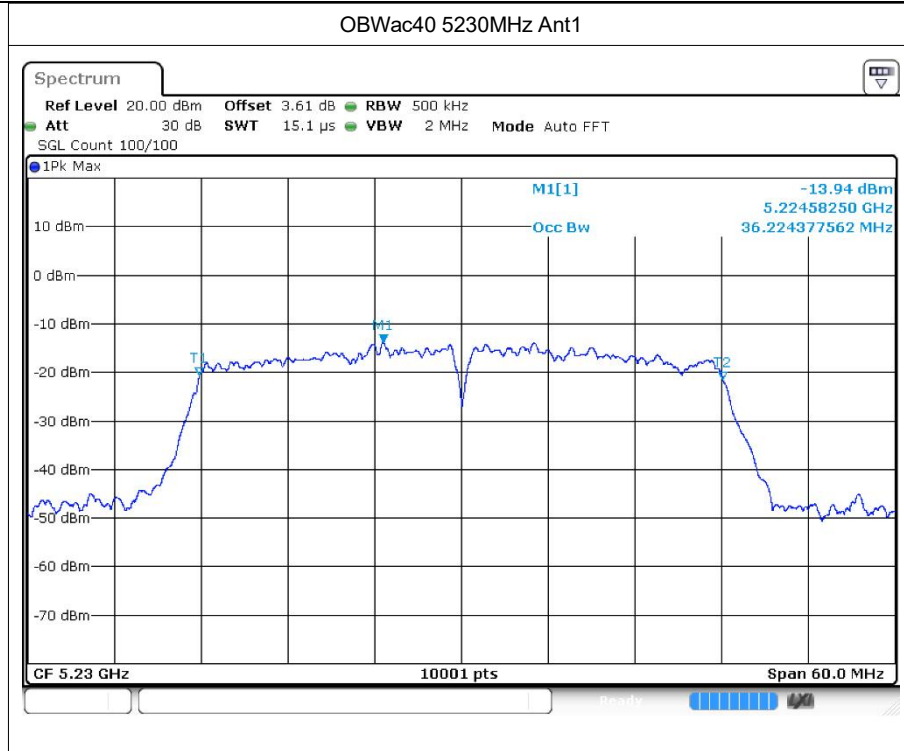


OBW ac20 5240MHz Ant1



OBWac40 5190MHz Ant1





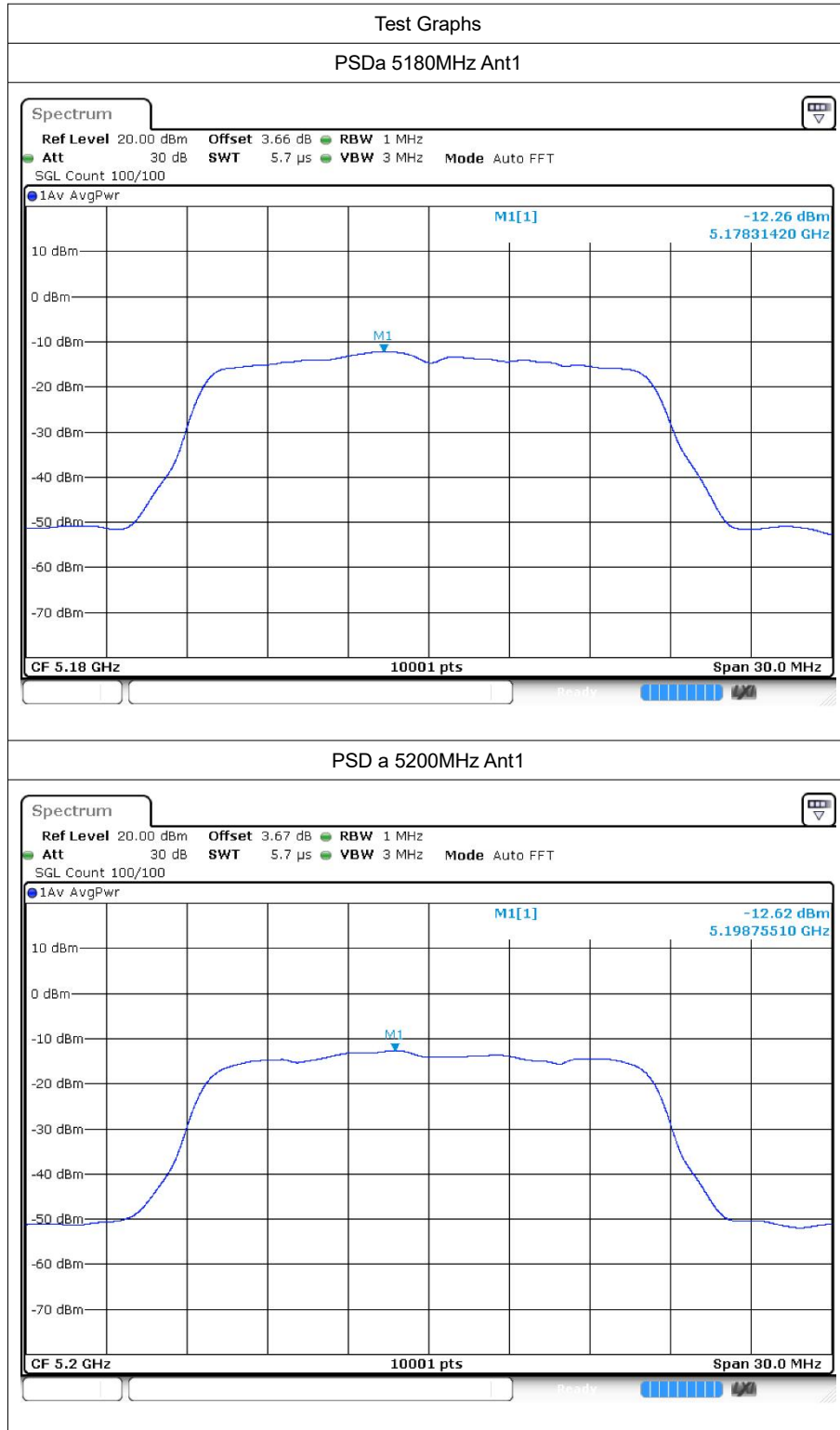


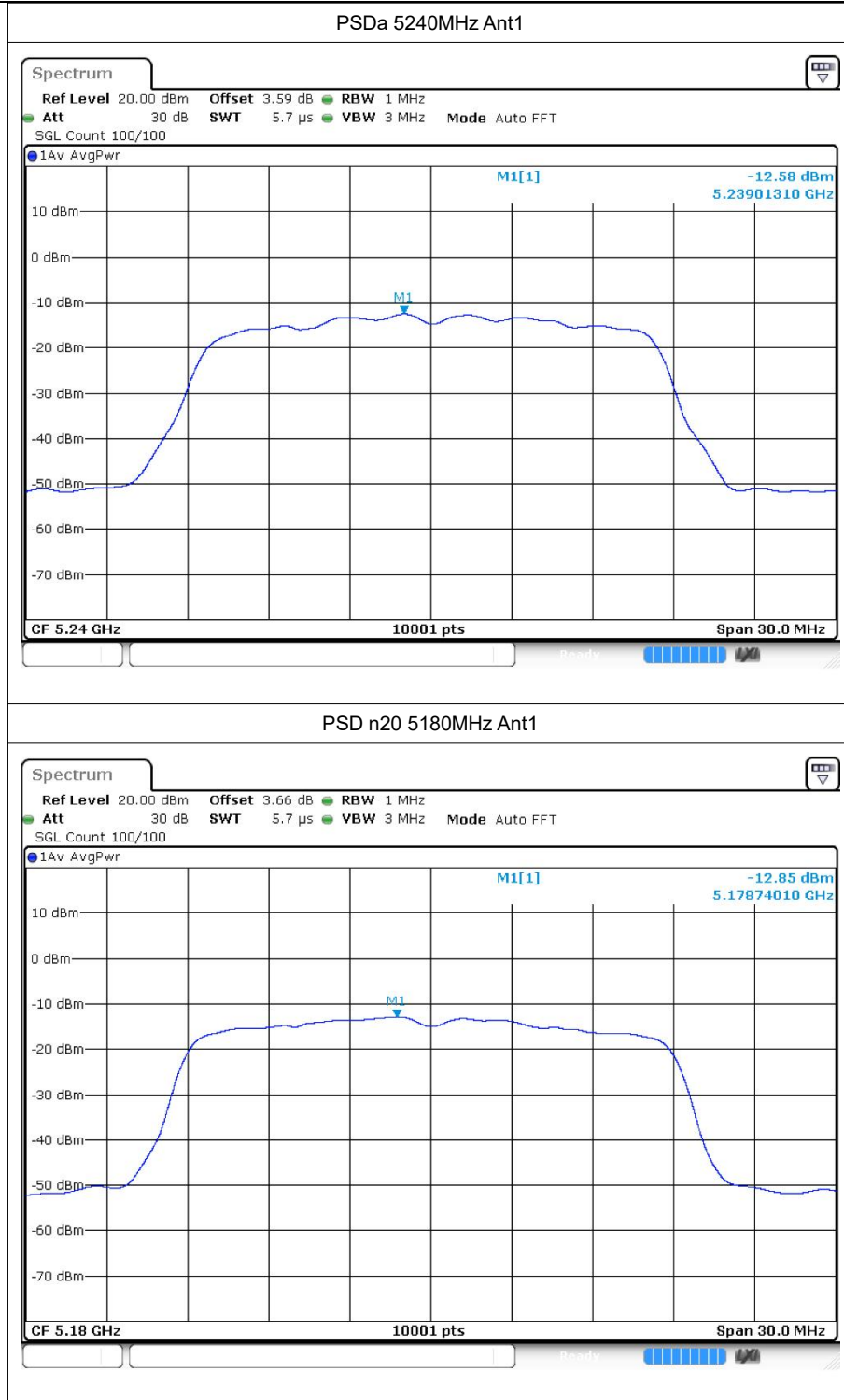
5 Maximum Power Spectral Density Level

5.1 Test Result

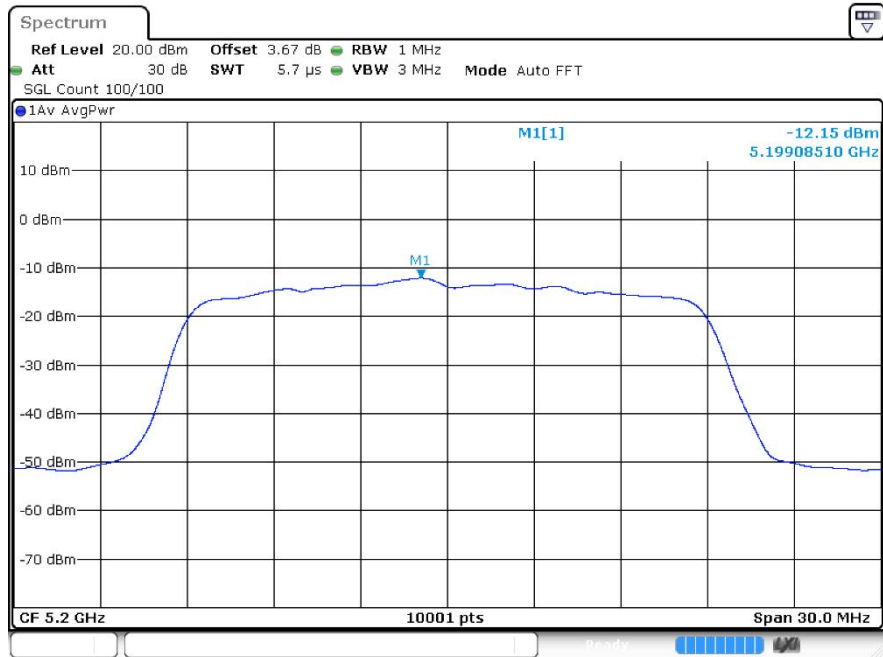
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	-12.26	0.08	-12.18	11	Pass
a	5200	Ant1	-12.62	0.09	-12.53	11	Pass
a	5240	Ant1	-12.58	0.08	-12.5	11	Pass
n20	5180	Ant1	-12.85	0.08	-12.77	11	Pass
n20	5200	Ant1	-12.15	0.08	-12.07	11	Pass
n20	5240	Ant1	-13.3	0.08	-13.22	11	Pass
ac20	5180	Ant1	-11.98	0.08	-11.9	11	Pass
ac20	5200	Ant1	-12.25	0.08	-12.17	11	Pass
ac20	5240	Ant1	-12.99	0.08	-12.91	11	Pass
ac40	5190	Ant1	-16.89	0.3	-16.59	11	Pass
ac40	5230	Ant1	-17.43	0.39	-17.04	11	Pass

5.2 Test Graphs

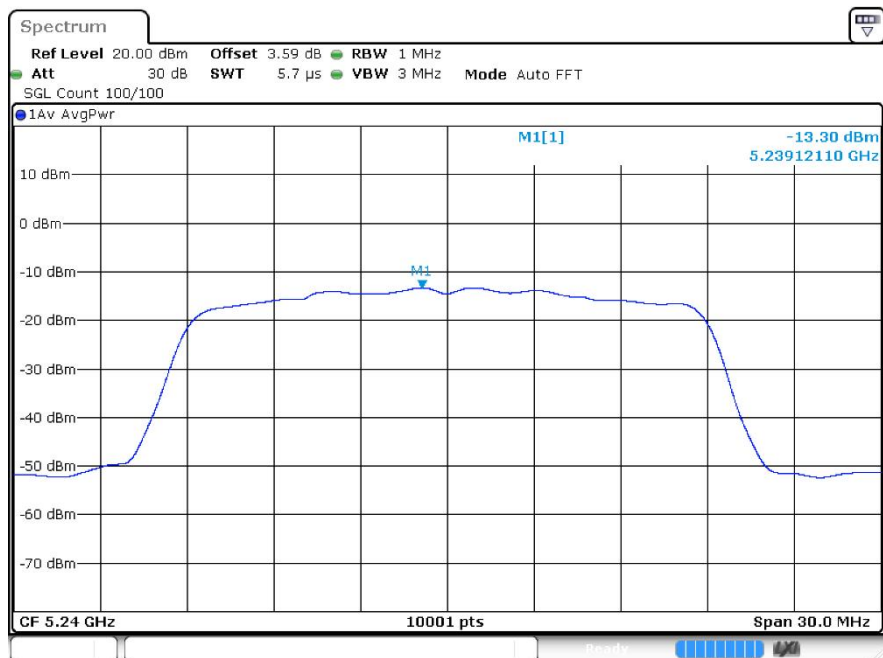




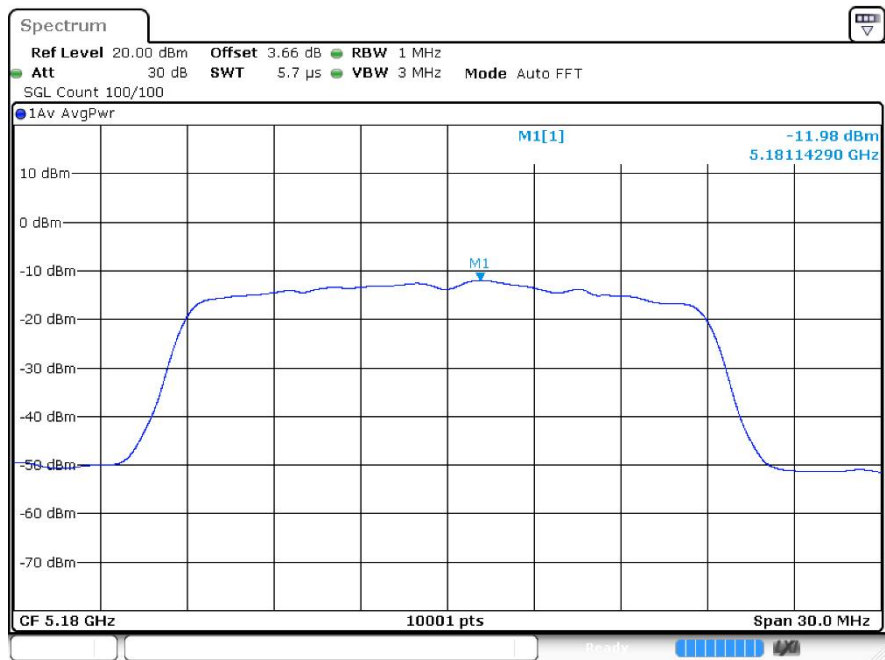
PSD n20 5200MHz Ant1



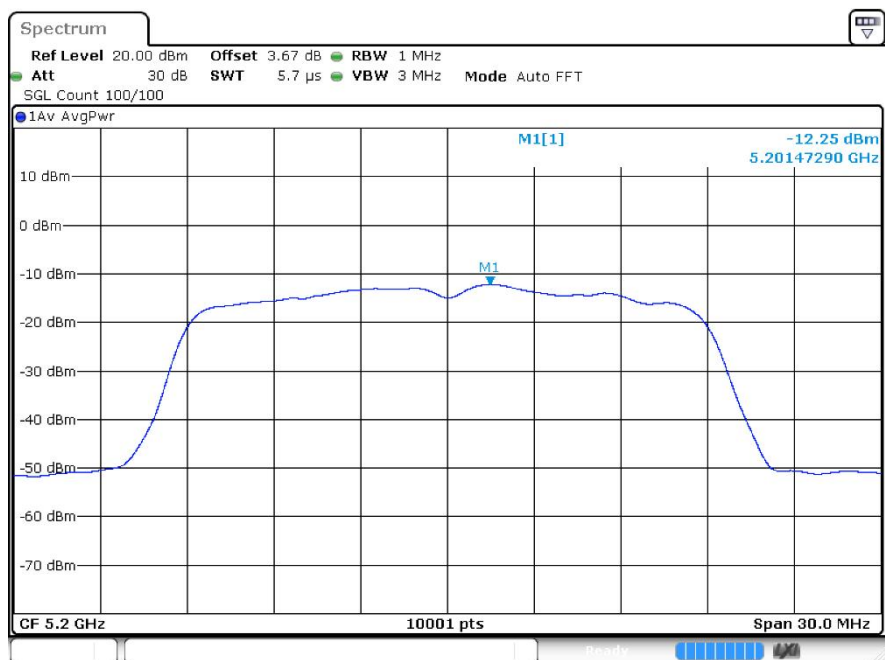
PSD n20 5240MHz Ant1



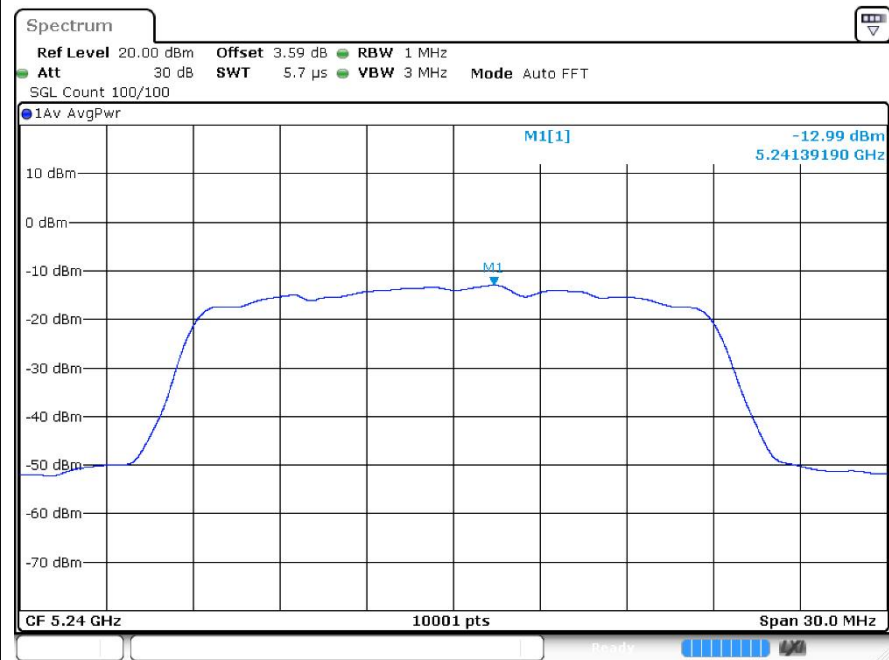
PSD ac20 5180MHz Ant1



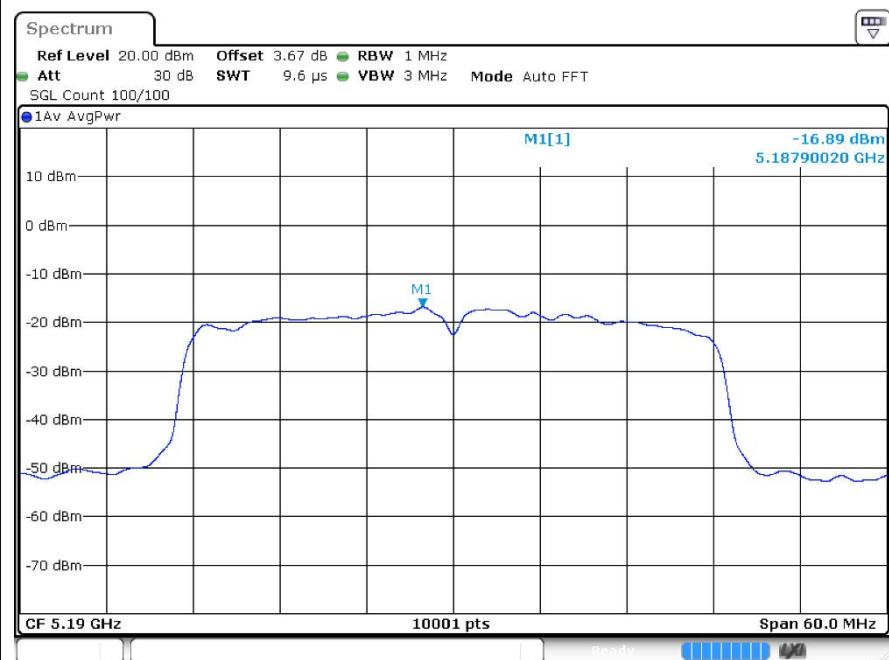
PSD ac20 5200MHz Ant1

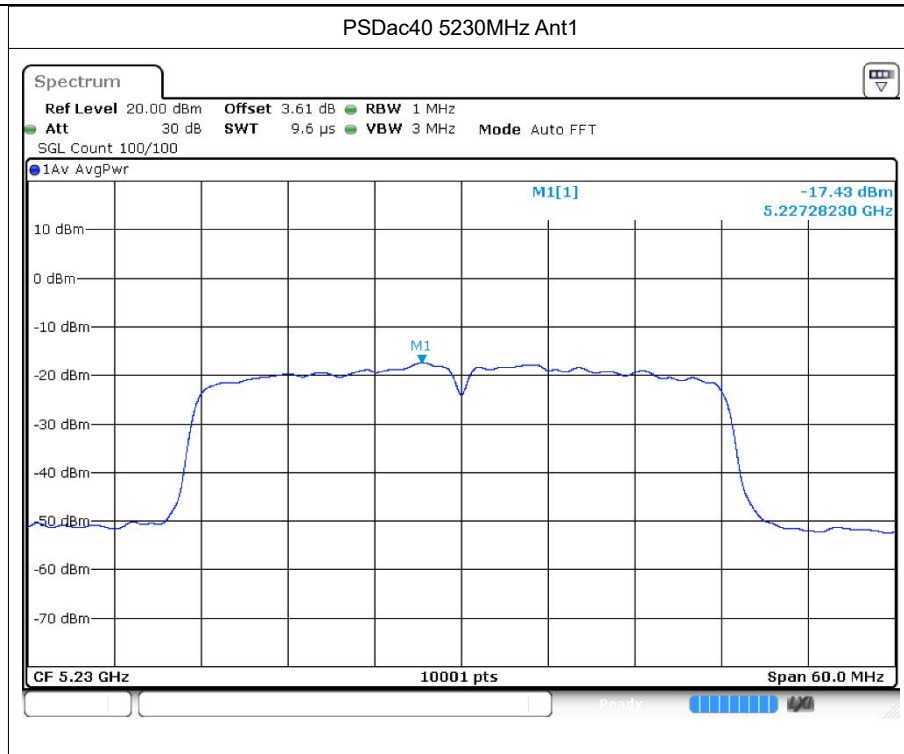


PSD ac20 5240MHz Ant1



PSDac40 5190MHz Ant1







6 Frequency Stability

6.1 Test Result

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 102V	a	5180	Ant1	5180	0	0	25	Pass
20C 120V	a	5180	Ant1	5180	0	0	25	Pass
20C 138V	a	5180	Ant1	5180	0	0	25	Pass
-20C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-10C 120V	a	5180	Ant1	5180	0	0	25	Pass
0C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 120V	a	5180	Ant1	5179.96	-40000	-7.72	25	Pass
30C 120V	a	5180	Ant1	5180	0	0	25	Pass
40C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
50C 120V	a	5180	Ant1	5180	0	0	25	Pass
20C 102V	a	5200	Ant1	5200.02	20000	3.85	25	Pass
20C 120V	a	5200	Ant1	5200	0	0	25	Pass
20C 138V	a	5200	Ant1	5200.02	20000	3.85	25	Pass
-20C 120V	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-10C 120V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
0C 120V	a	5200	Ant1	5200	0	0	25	Pass
10C 120V	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
30C 120V	a	5200	Ant1	5200.02	20000	3.85	25	Pass
40C 120V	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 102V	a	5200	Ant1	5200.02	20000	3.85	25	Pass
20C 102V	a	5240	Ant1	5240.02	20000	3.82	25	Pass
20C 120V	a	5240	Ant1	5240	0	0	25	Pass
20C 138V	a	5240	Ant1	5240.02	20000	3.82	25	Pass
-20C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
-10C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
0C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
10C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
30C 120V	a	5240	Ant1	5240.02	20000	3.82	25	Pass
40C 120V	a	5240	Ant1	5240	0	0	25	Pass
50C 120V	a	5240	Ant1	5240	0	0	25	Pass
20C 102V	n20	5180	Ant1	5180	0	0	25	Pass
20C 120V	n20	5180	Ant1	5180	0	0	25	Pass
20C 138V	n20	5180	Ant1	5180.02	20000	3.86	25	Pass
-20C 120V	n20	5180	Ant1	5180.02	20000	3.86	25	Pass
-10C 120V	n20	5180	Ant1	5180	0	0	25	Pass



0C 120V	n20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
10C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
30C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
40C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
50C 120V	n20	5180	Ant1	5180	0	0	25	Pass
20C 102V	n20	5200	Ant1	5200.02	20000	3.85	25	Pass
20C 120V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 138V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-20C 120V	n20	5200	Ant1	5200	0	0	25	Pass
-10C 120V	n20	5200	Ant1	5200.02	20000	3.85	25	Pass
0C 120V	n20	5200	Ant1	5200	0	0	25	Pass
10C 120V	n20	5200	Ant1	5200.02	20000	3.85	25	Pass
30C 120V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
40C 120V	n20	5200	Ant1	5200.02	20000	3.85	25	Pass
50C 120V	n20	5200	Ant1	5200	0	0	25	Pass
20C 102V	n20	5240	Ant1	5240	0	0	25	Pass
20C 120V	n20	5240	Ant1	5240	0	0	25	Pass
20C 138V	n20	5240	Ant1	5240.02	20000	3.82	25	Pass
-20C 120V	n20	5240	Ant1	5240	0	0	25	Pass
-10C 120V	n20	5240	Ant1	5240	0	0	25	Pass
0C 120V	n20	5240	Ant1	5240.02	20000	3.82	25	Pass
10C 120V	n20	5240	Ant1	5240.02	20000	3.82	25	Pass
30C 120V	n20	5240	Ant1	5240	0	0	25	Pass
40C 120V	n20	5240	Ant1	5240	0	0	25	Pass
50C 120V	n20	5240	Ant1	5240	0	0	25	Pass
20C 102V	ac20	5180	Ant1	5180.02	20000	3.86	25	Pass
20C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 138V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
-20C 120V	ac20	5180	Ant1	5180	0	0	25	Pass
-10C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
0C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
30C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
40C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
50C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 102V	ac20	5200	Ant1	5200	0	0	25	Pass
20C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 138V	ac20	5200	Ant1	5200	0	0	25	Pass
-20C 120V	ac20	5200	Ant1	5200	0	0	25	Pass
-10C 120V	ac20	5200	Ant1	5200	0	0	25	Pass
0C 120V	ac20	5200	Ant1	5200	0	0	25	Pass
10C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
30C 120V	ac20	5200	Ant1	5200.02	20000	3.85	25	Pass



40C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
50C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 102V	ac20	5240	Ant1	5240	0	0	25	Pass
20C 120V	ac20	5240	Ant1	5240	0	0	25	Pass
20C 138V	ac20	5240	Ant1	5240	0	0	25	Pass
-20C 120V	ac20	5240	Ant1	5240.02	20000	3.82	25	Pass
-10C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
0C 120V	ac20	5240	Ant1	5240	0	0	25	Pass
10C 120V	ac20	5240	Ant1	5240	0	0	25	Pass
30C 120V	ac20	5240	Ant1	5240	0	0	25	Pass
40C 120V	ac20	5240	Ant1	5240.02	20000	3.82	25	Pass
50C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 102V	ac40	5190	Ant1	5190	0	0	25	Pass
20C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 138V	ac40	5190	Ant1	5190	0	0	25	Pass
-20C 120V	ac40	5190	Ant1	5190	0	0	25	Pass
-10C 120V	ac40	5190	Ant1	5190	0	0	25	Pass
0C 120V	ac40	5190	Ant1	5190	0	0	25	Pass
10C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
30C 120V	ac40	5190	Ant1	5190	0	0	25	Pass
40C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
50C 120V	ac40	5190	Ant1	5190	0	0	25	Pass
20C 102V	ac40	5230	Ant1	5230	0	0	25	Pass
20C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
20C 138V	ac40	5230	Ant1	5230	0	0	25	Pass
-20C 120V	ac40	5230	Ant1	5230.04	40000	7.65	25	Pass
-10C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
0C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
10C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
30C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
40C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
50C 120V	ac40	5230	Ant1	5230	0	0	25	Pass



7 Conducted RF Spurious Emission

7.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
a	5180	Ant1	-35.91	-27	Pass
a	5200	Ant1	-35.96	-27	Pass
a	5240	Ant1	-36.35	-27	Pass
n20	5180	Ant1	-35.12	-27	Pass
n20	5200	Ant1	-35.62	-27	Pass
n20	5240	Ant1	-35.79	-27	Pass
ac20	5180	Ant1	-35.84	-27	Pass
ac20	5200	Ant1	-35.56	-27	Pass
ac20	5240	Ant1	-35.84	-27	Pass
ac40	5190	Ant1	-35.93	-27	Pass
ac40	5230	Ant1	-35.08	-27	Pass