



Appendix E

RF Test Data for 5.8GWIFI(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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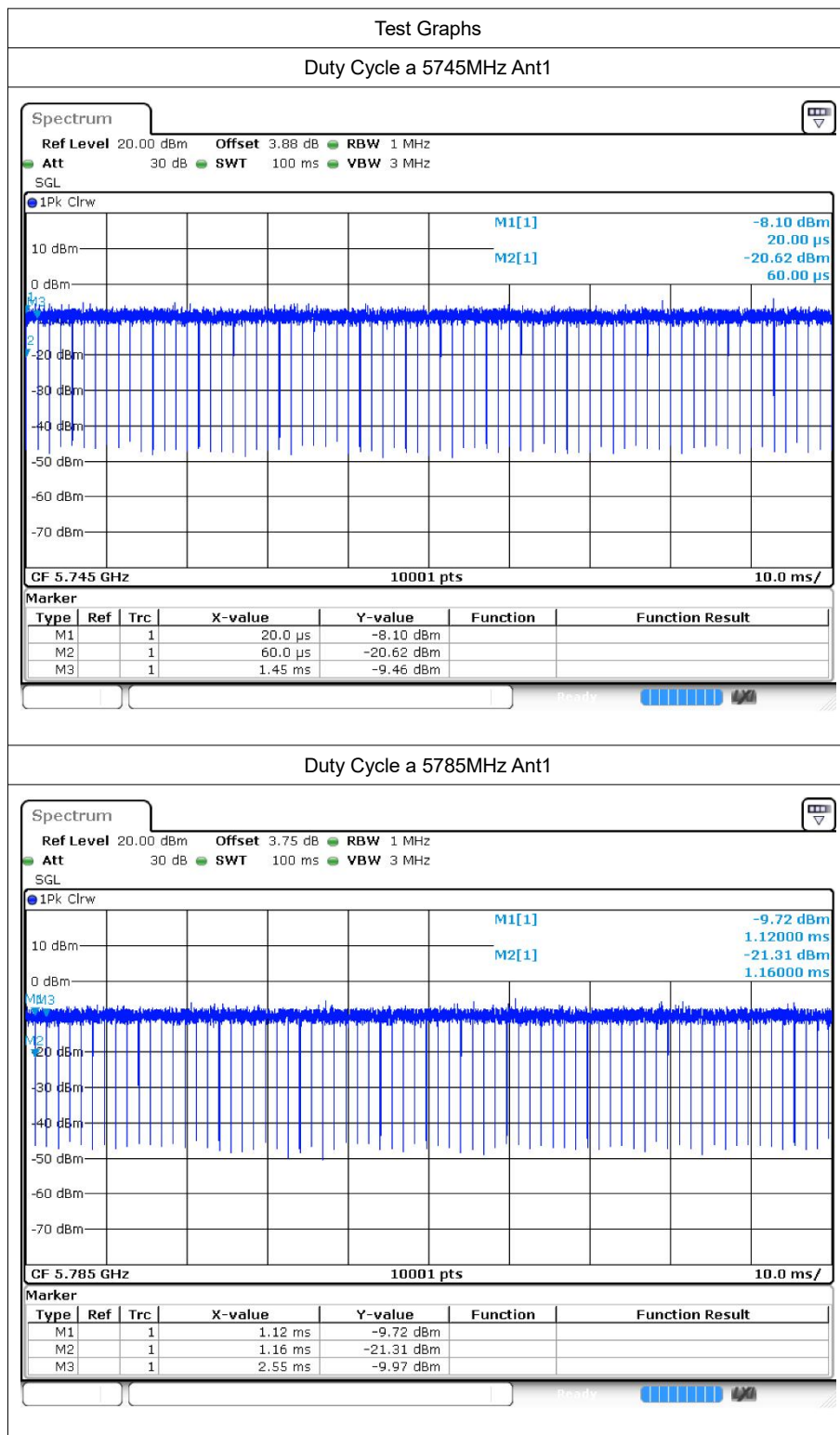
1 Duty Cycle

1.1 Test Result

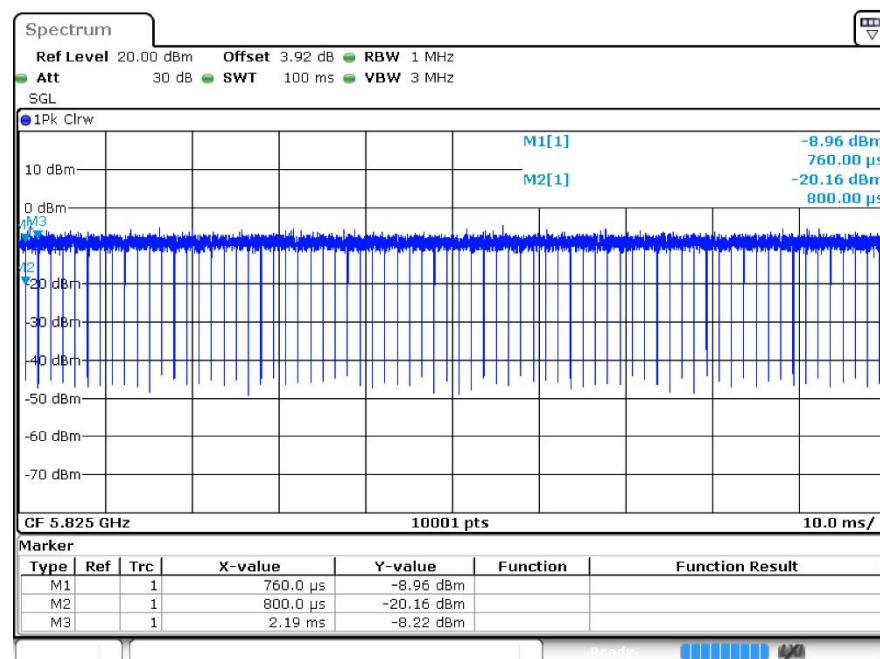
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	98.2	0.08	0.72
a	5785	Ant1	98.2	0.08	0.72
a	5825	Ant1	98.2	0.08	0.72
n20	5745	Ant1	98.08	0.08	0.77
n20	5785	Ant1	98.08	0.08	0.77
n20	5825	Ant1	98.08	0.08	0.77
ac20	5745	Ant1	98.09	0.08	0.76
ac20	5785	Ant1	98.1	0.08	0.76
ac20	5825	Ant1	98.11	0.08	0.76
ac40	5755	Ant1	96.36	0.16	1.52
ac40	5795	Ant1	96.36	0.16	1.54



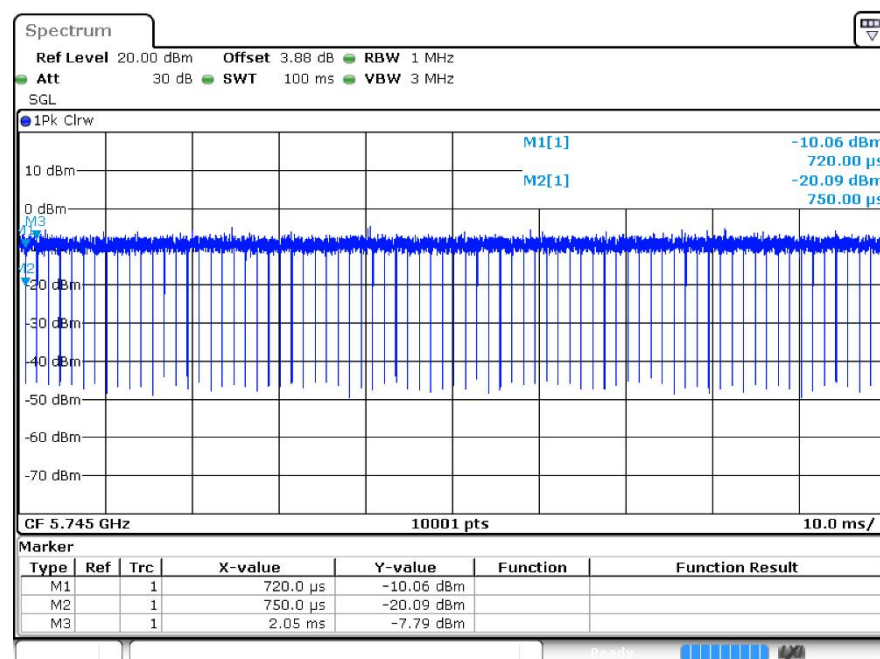
1.2 Test Graphs



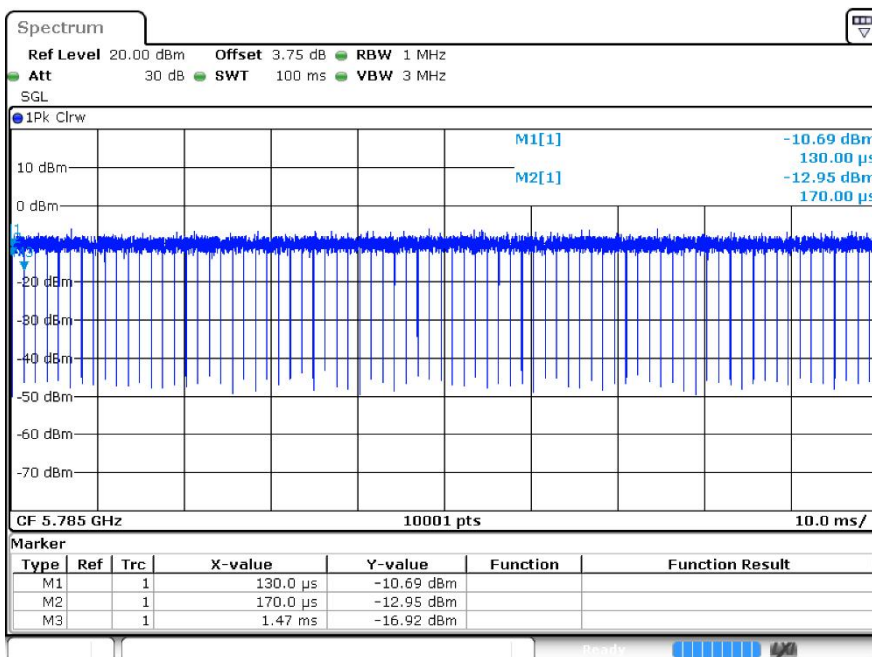
Duty Cycle a 5825MHz Ant1



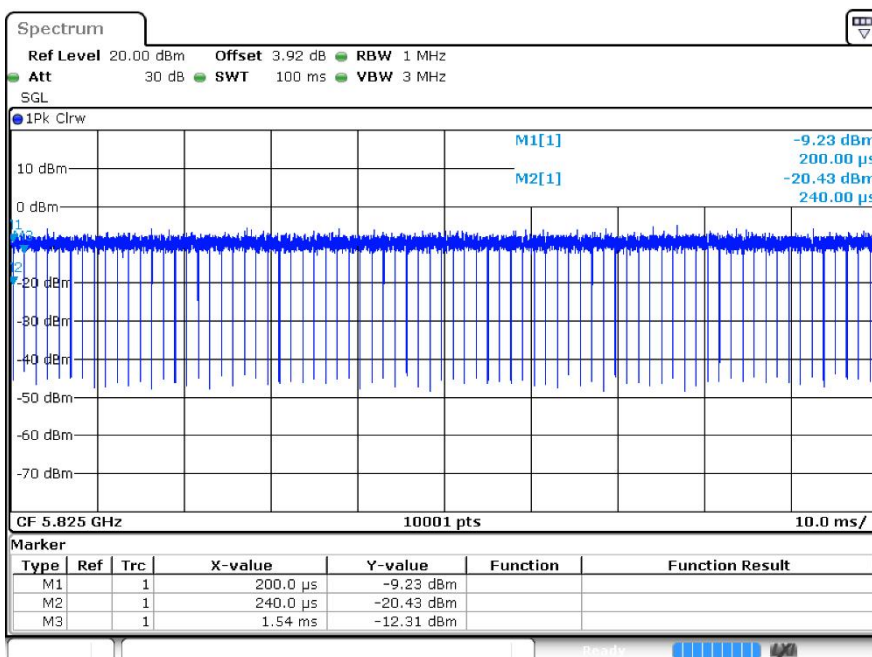
Duty Cycle n20 5745MHz Ant1



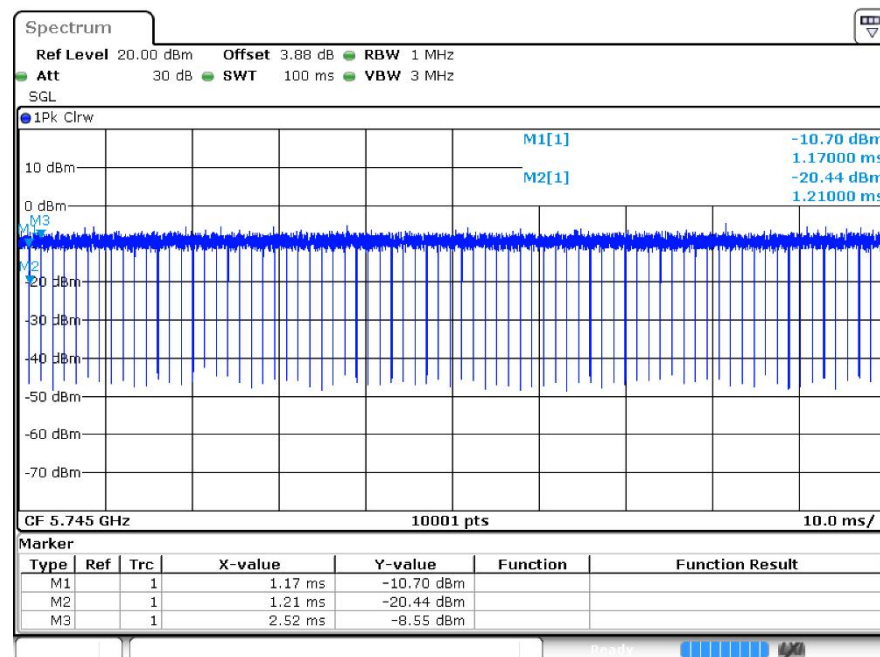
Duty Cycle n20 5785MHz Ant1



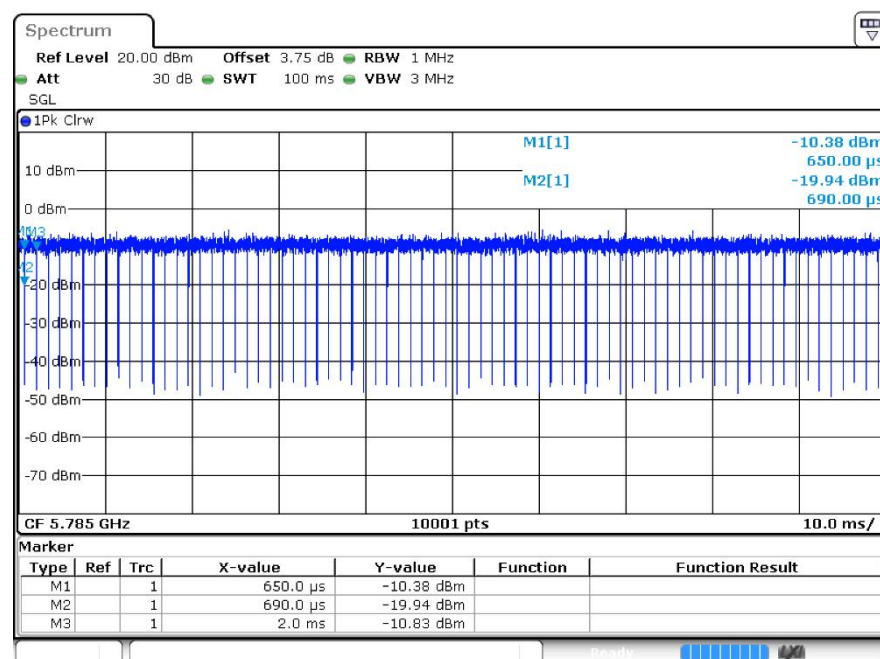
Duty Cycle n20 5825MHz Ant1



Duty Cycle ac20 5745MHz Ant1

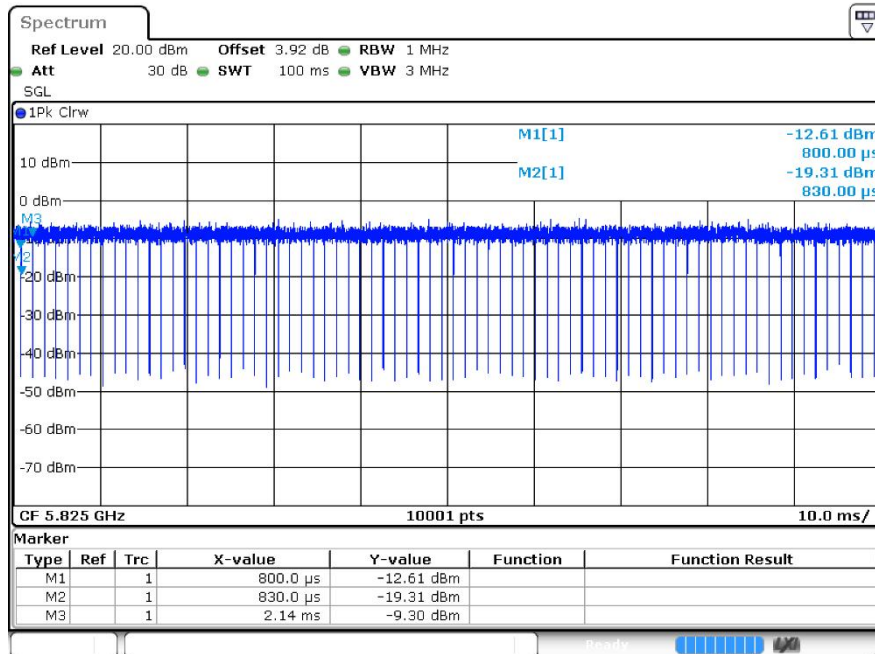


Duty Cycle ac20 5785MHz Ant1

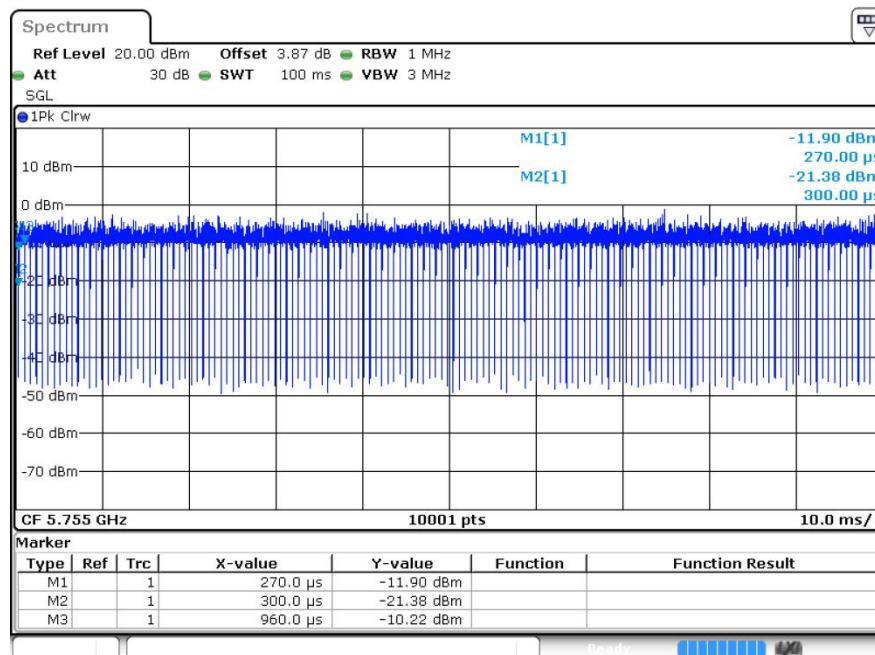


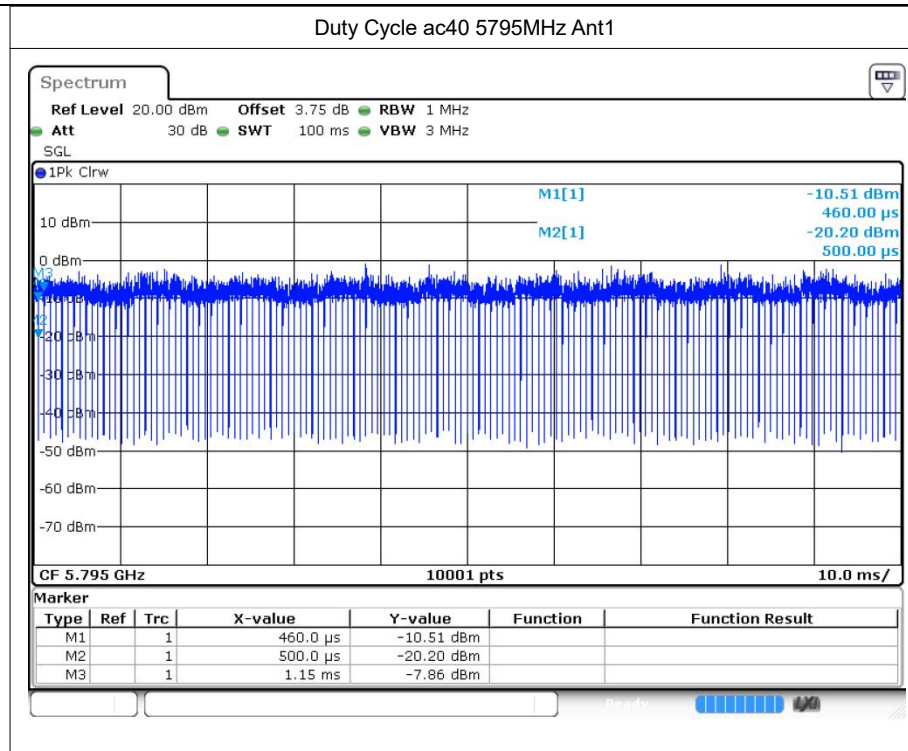


Duty Cycle ac20 5825MHz Ant1



Duty Cycle ac40 5755MHz Ant1





2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	-0.82	30	Pass
a	5785	Ant1	-1.52	30	Pass
a	5825	Ant1	-0.81	30	Pass
n20	5745	Ant1	-0.97	30	Pass
n20	5785	Ant1	-1.73	30	Pass
n20	5825	Ant1	-0.95	30	Pass
ac20	5745	Ant1	-0.95	30	Pass
ac20	5785	Ant1	-1.15	30	Pass
ac20	5825	Ant1	-0.40	30	Pass
ac40	5755	Ant1	-2.06	30	Pass
ac40	5795	Ant1	-2.02	30	Pass

Note:

The duty factor has been compensated into the result.

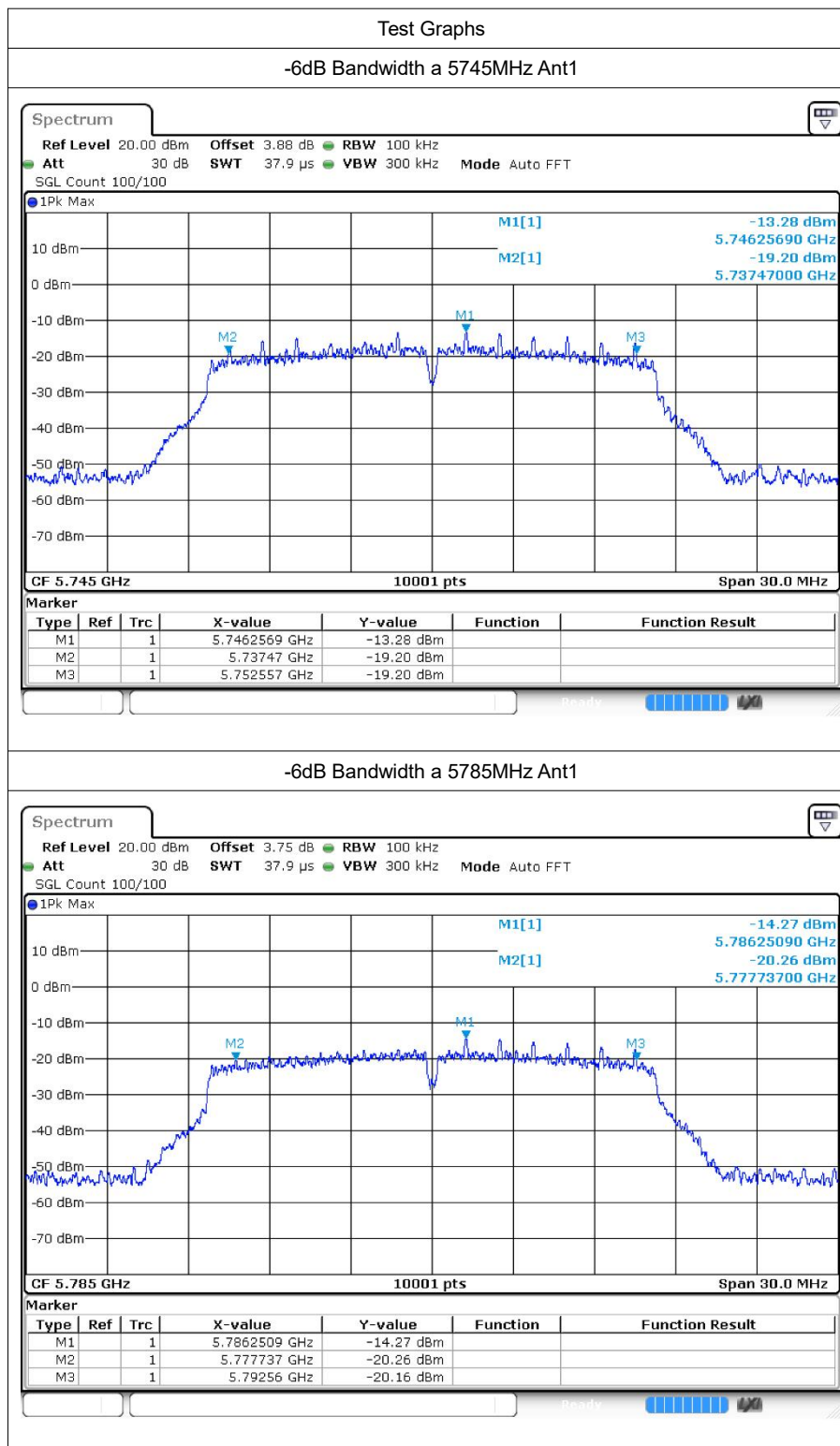


3 -6dB Bandwidth

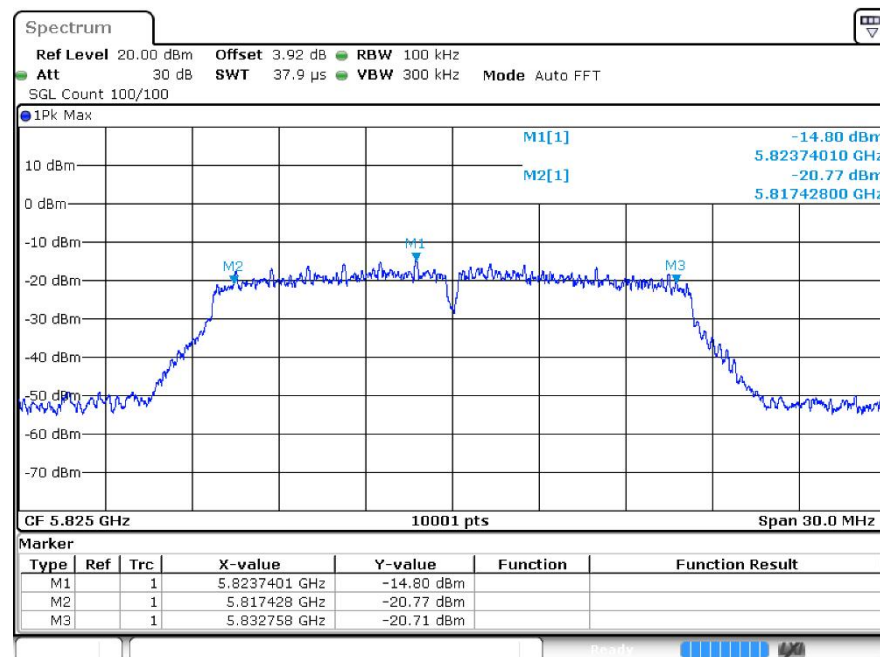
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	15.087	0.5	Pass
a	5785	Ant1	14.823	0.5	Pass
a	5825	Ant1	15.33	0.5	Pass
n20	5745	Ant1	12.543	0.5	Pass
n20	5785	Ant1	17.157	0.5	Pass
n20	5825	Ant1	15.345	0.5	Pass
ac20	5745	Ant1	17.565	0.5	Pass
ac20	5785	Ant1	15.075	0.5	Pass
ac20	5825	Ant1	17.295	0.5	Pass
ac40	5755	Ant1	35.91	0.5	Pass
ac40	5795	Ant1	35.064	0.5	Pass

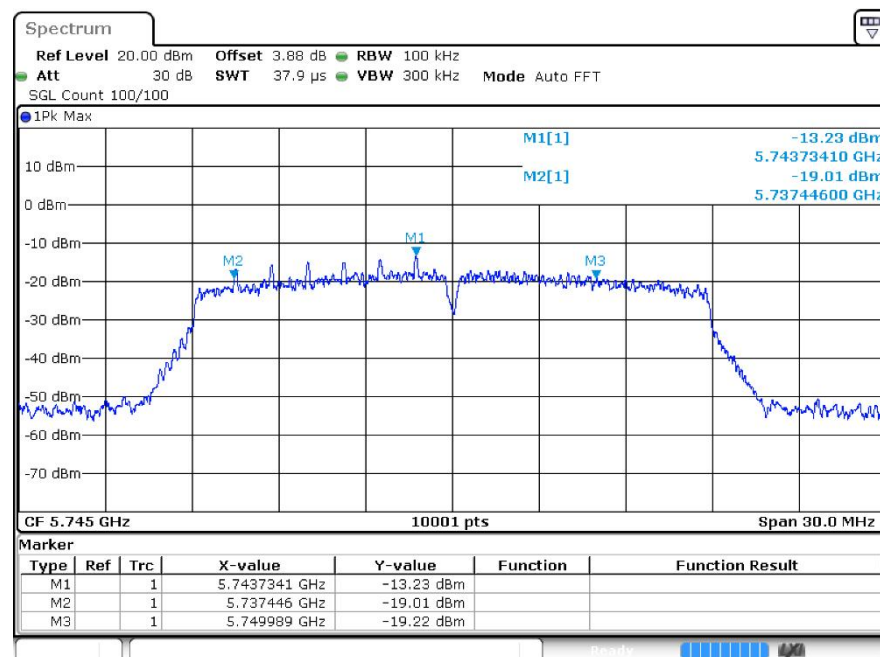
3.2 Test Graphs



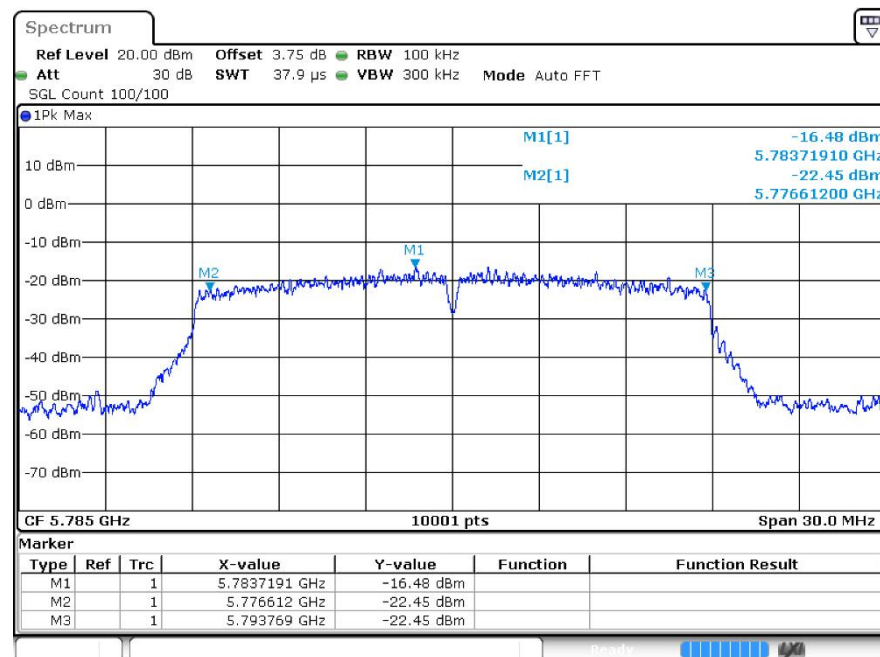
-6dB Bandwidth a 5825MHz Ant1



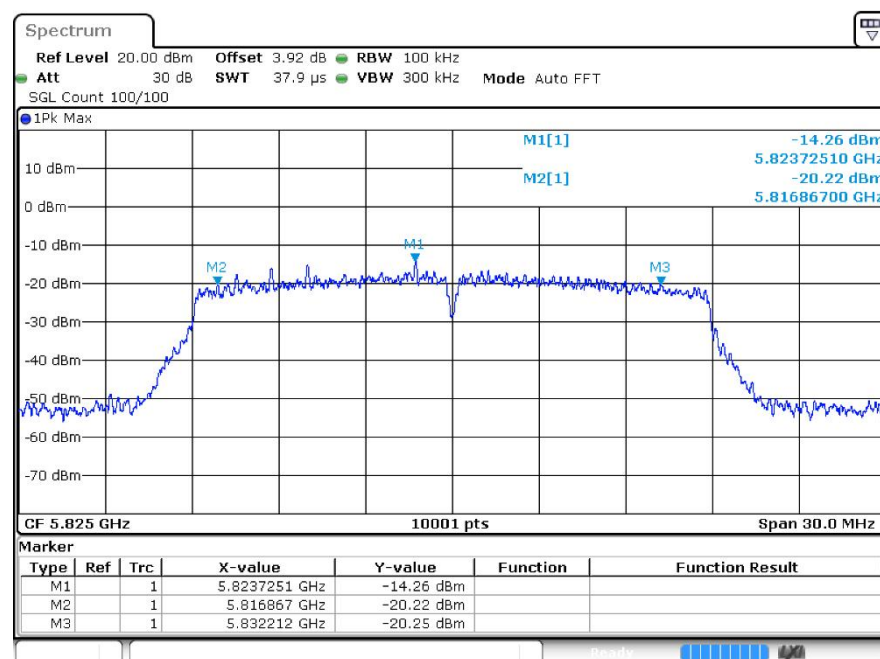
-6dB Bandwidth n20 5745MHz Ant1



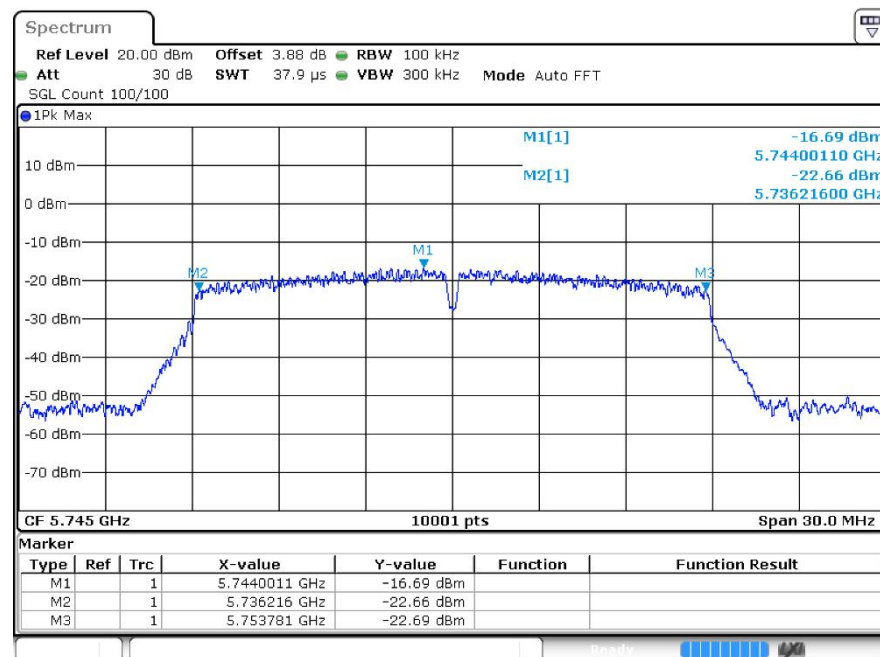
-6dB Bandwidth n20 5785MHz Ant1



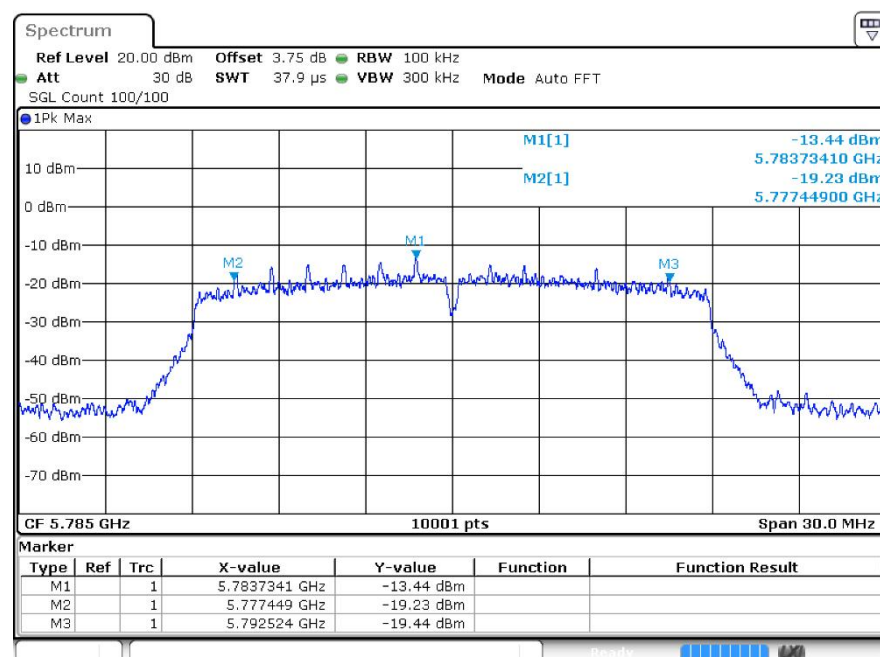
-6dB Bandwidth n20 5825MHz Ant1



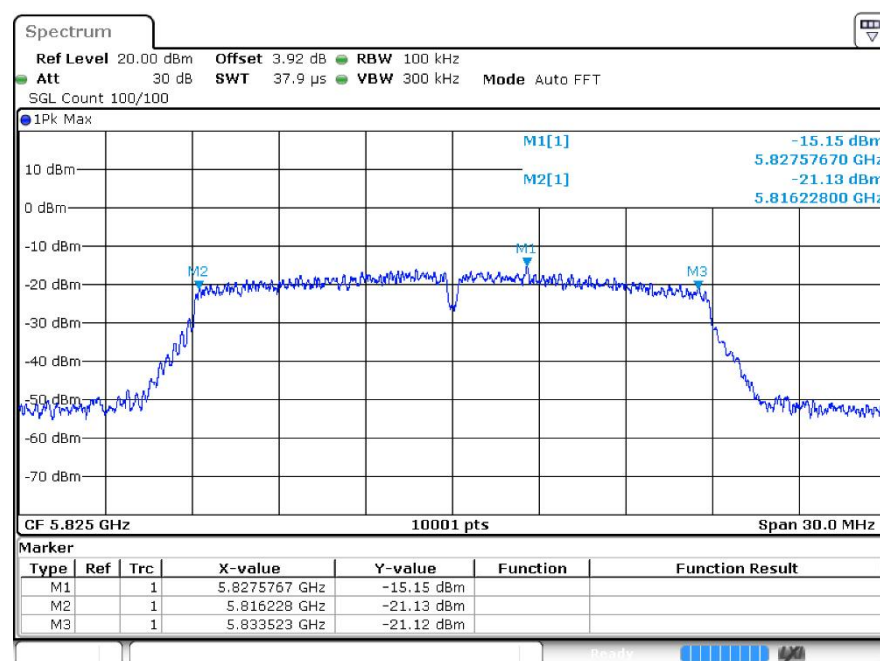
-6dB Bandwidth ac20 5745MHz Ant1



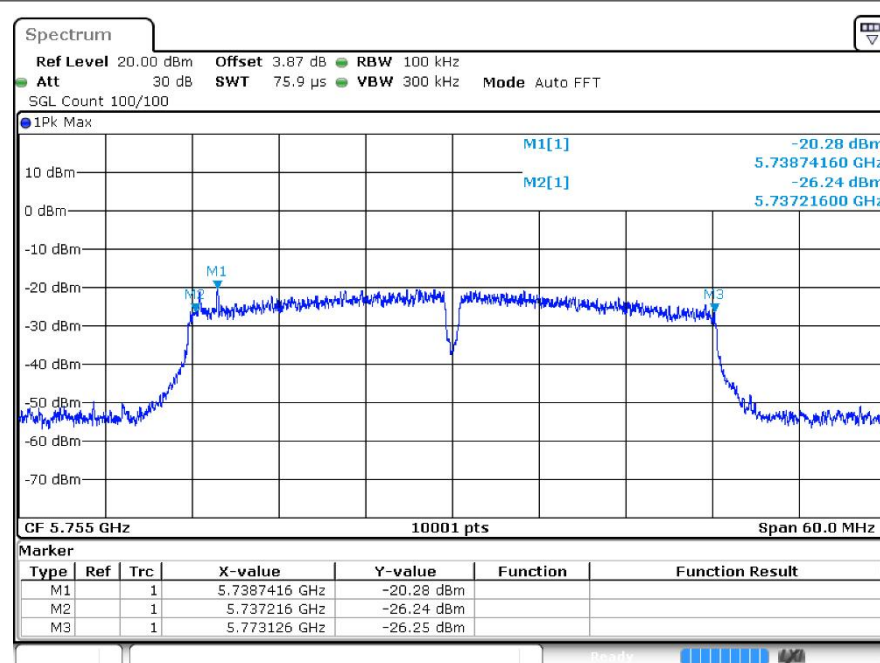
-6dB Bandwidth ac20 5785MHz Ant1

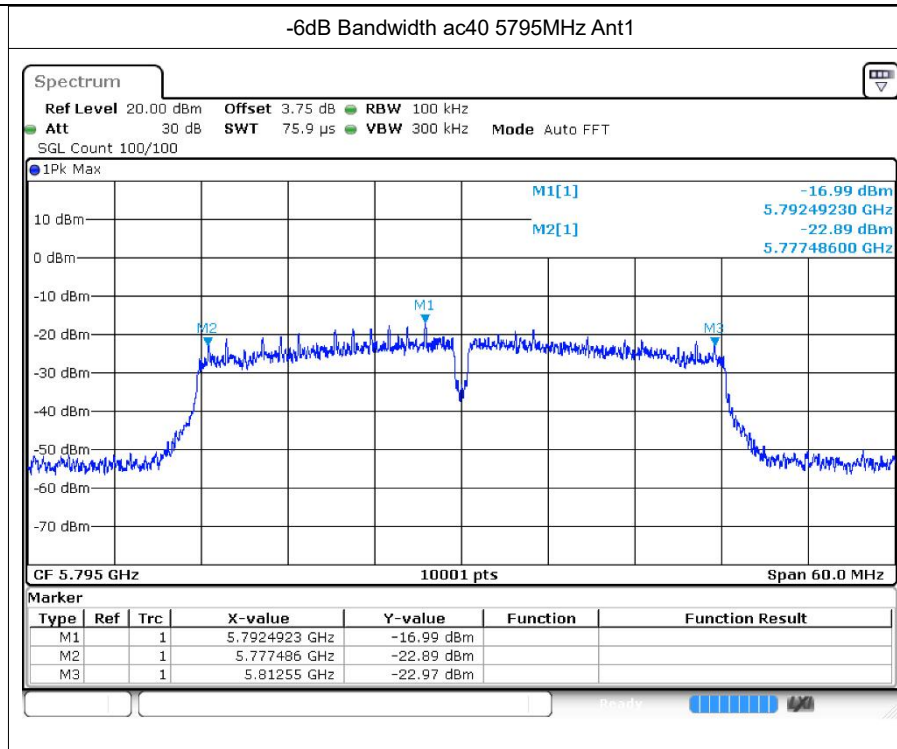


-6dB Bandwidth ac20 5825MHz Ant1



-6dB Bandwidth ac40 5755MHz Ant1





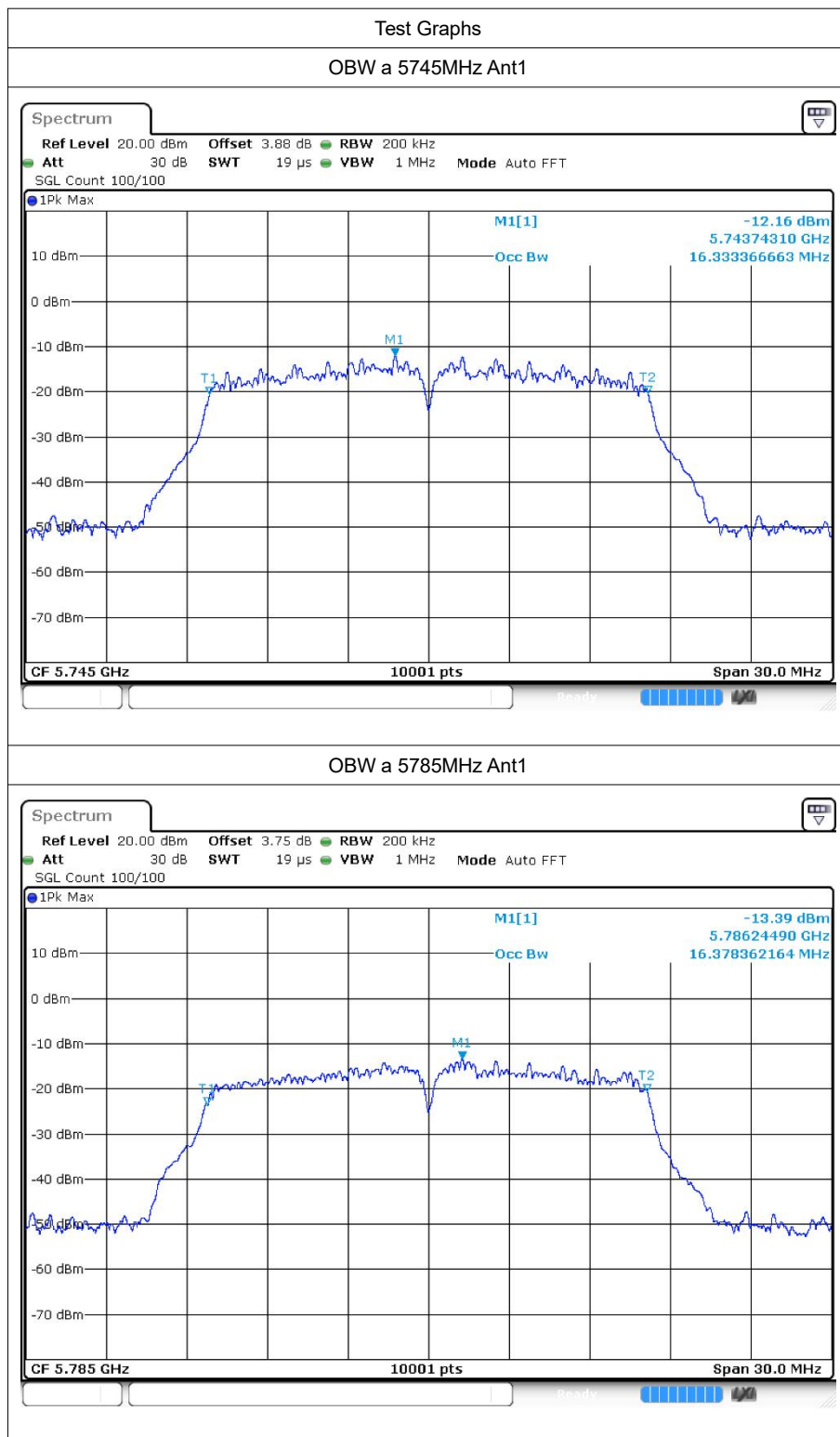


4 Occupied Channel Bandwidth

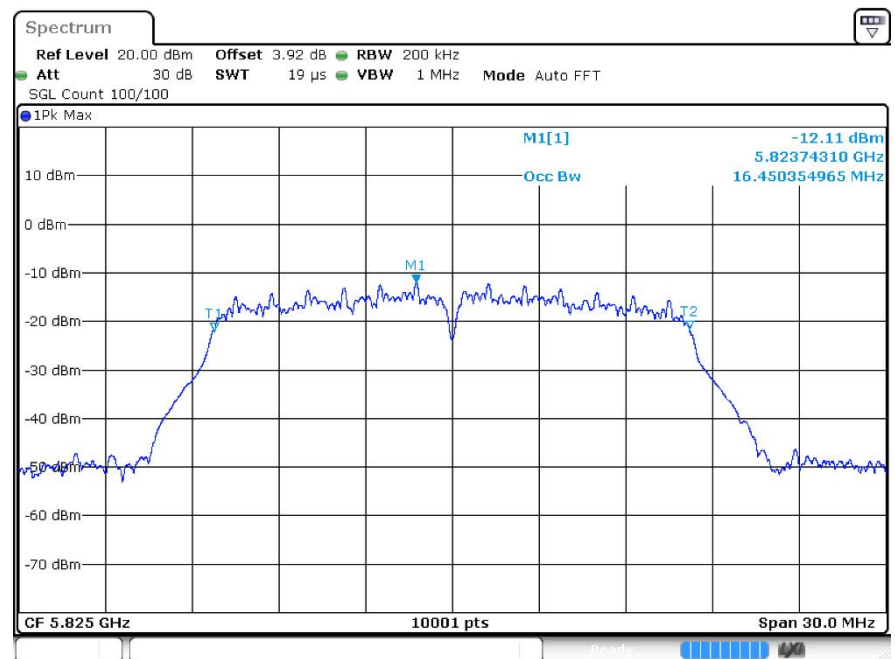
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5745	Ant1	16.333
a	5785	Ant1	16.378
a	5825	Ant1	16.45
n20	5745	Ant1	17.518
n20	5785	Ant1	17.56
n20	5825	Ant1	17.512
ac20	5745	Ant1	17.47
ac20	5785	Ant1	17.527
ac20	5825	Ant1	17.473
ac40	5755	Ant1	36.08
ac40	5795	Ant1	35.996

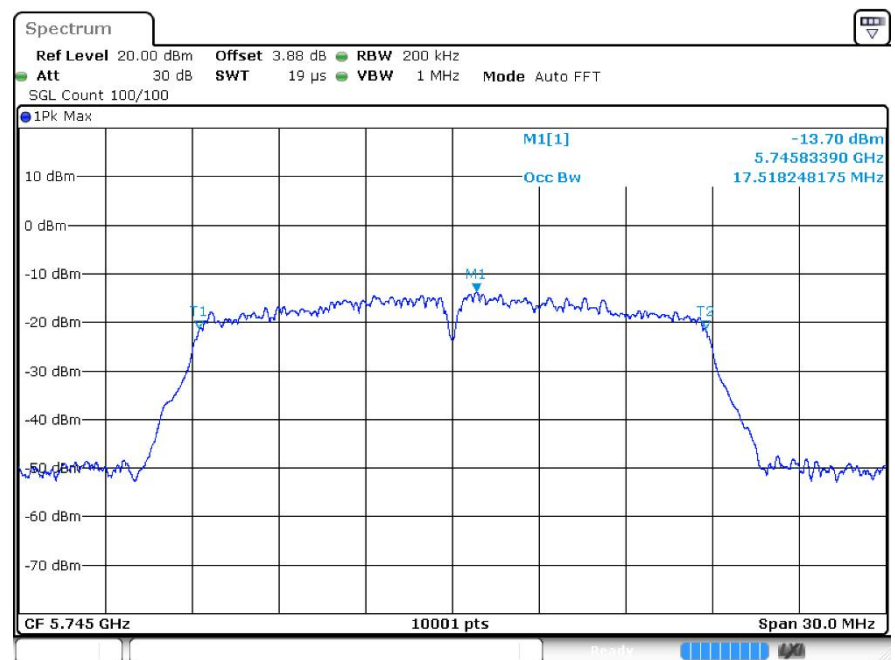
4.2 Test Graphs



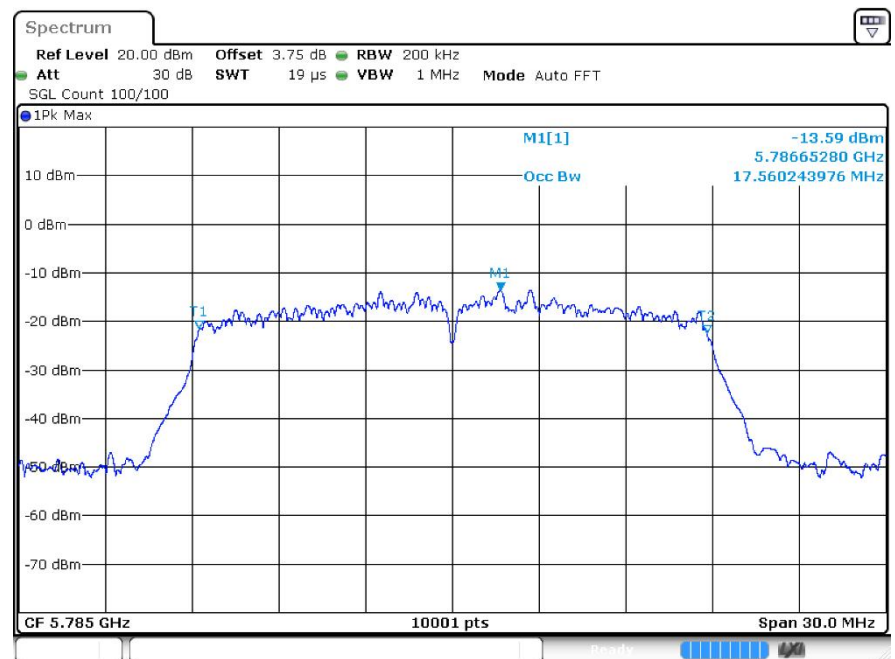
OBW a 5825MHz Ant1



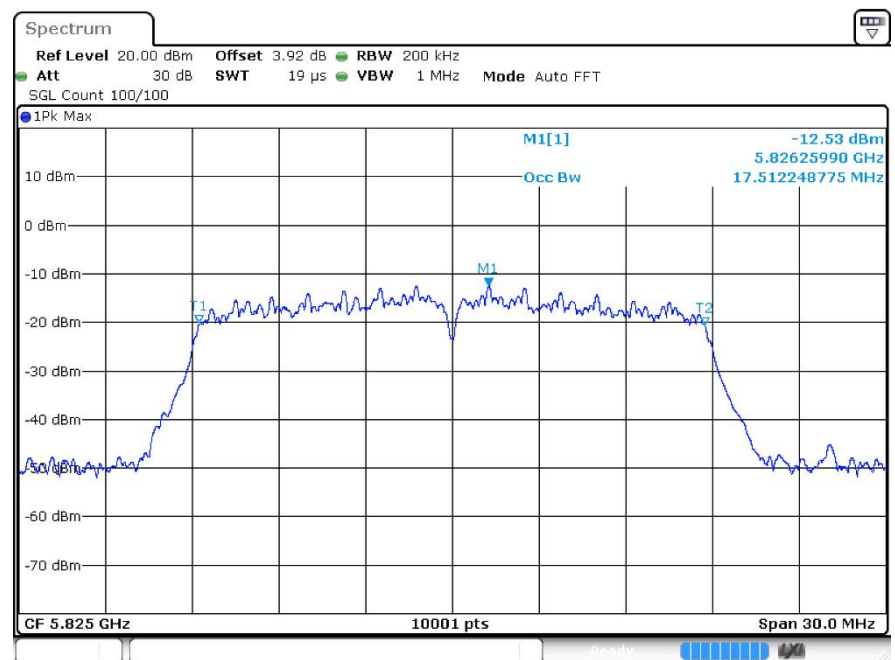
OBW n20 5745MHz Ant1



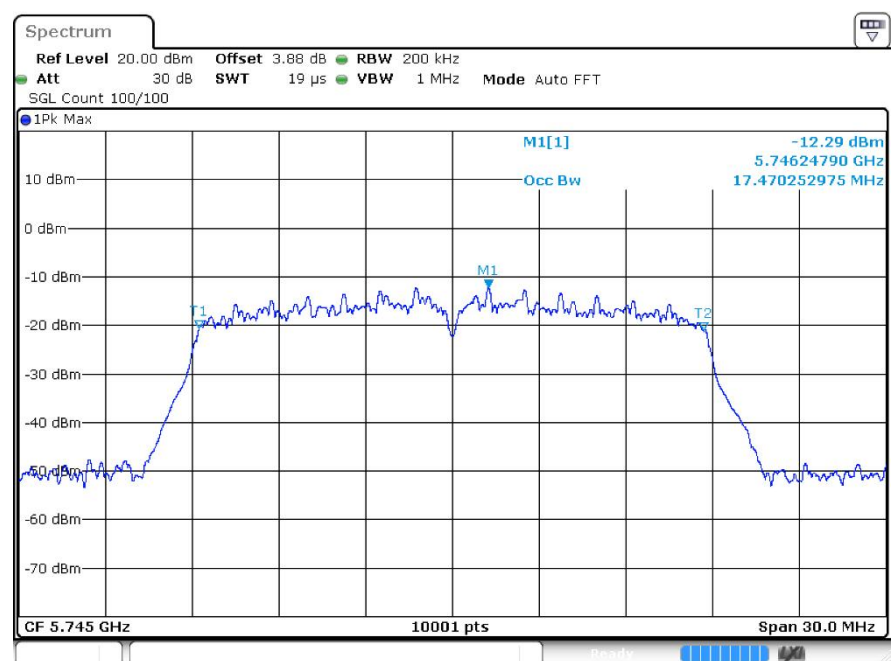
OBW n20 5785MHz Ant1



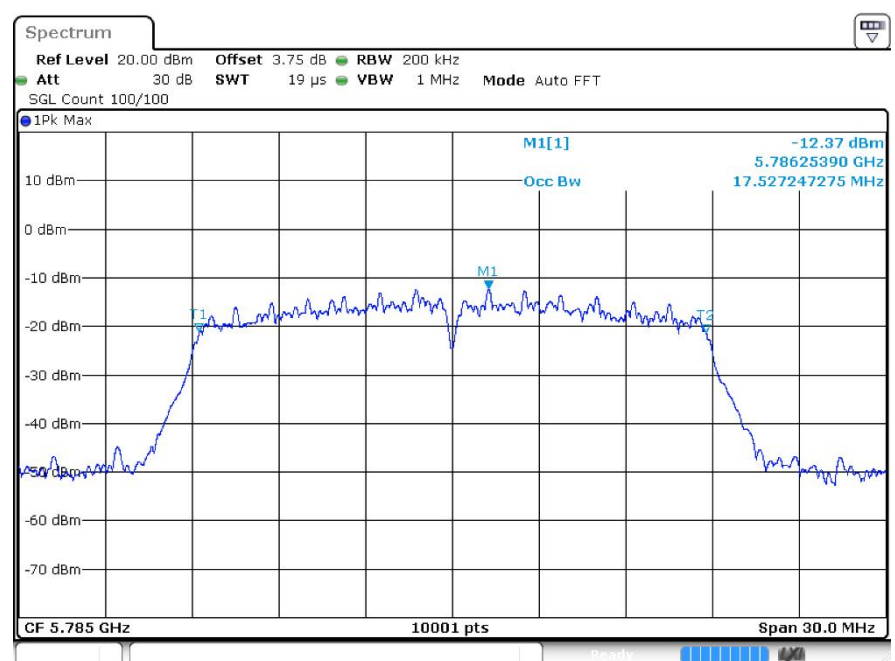
OBW n20 5825MHz Ant1



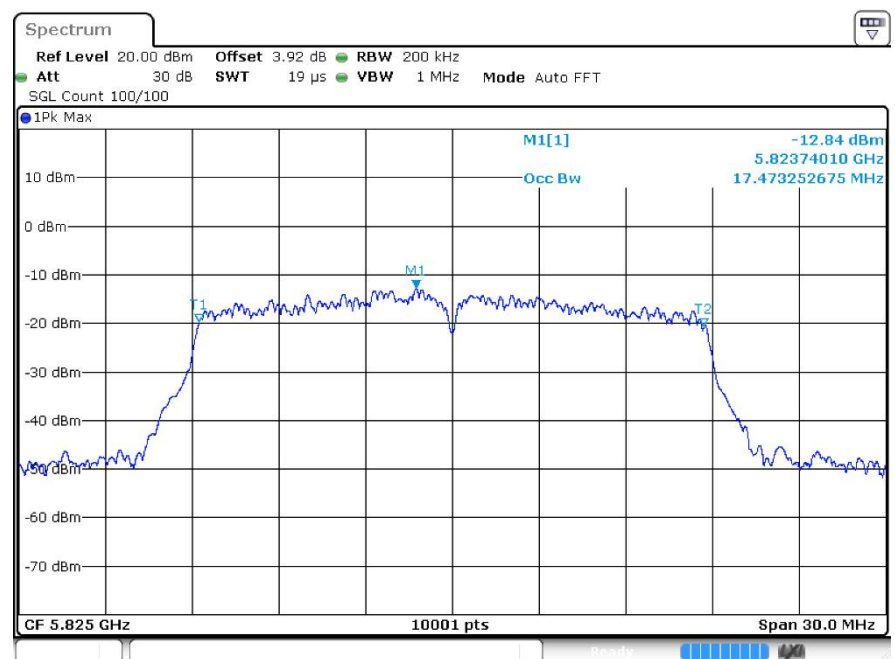
OBW ac20 5745MHz Ant1



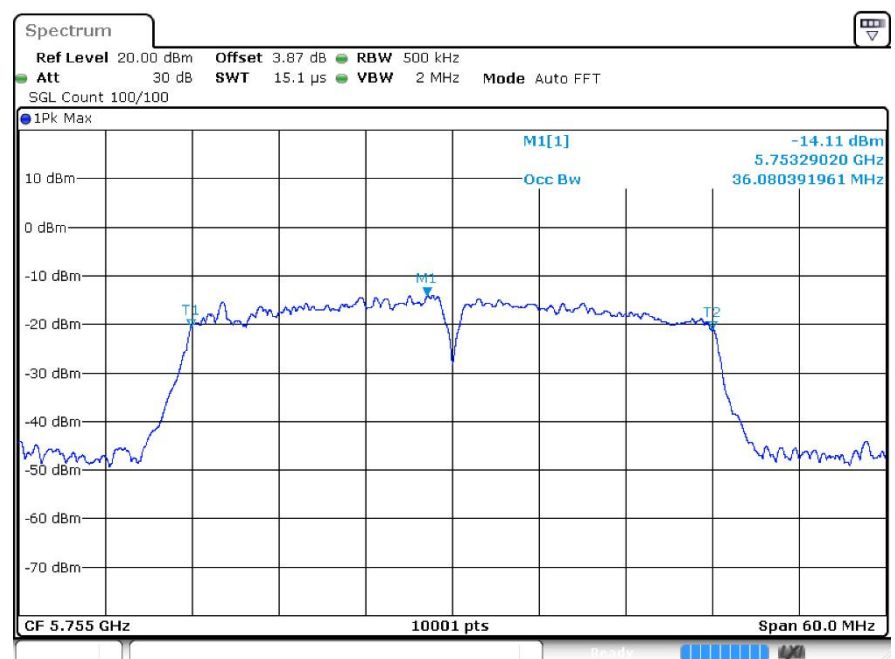
OBW ac20 5785MHz Ant1

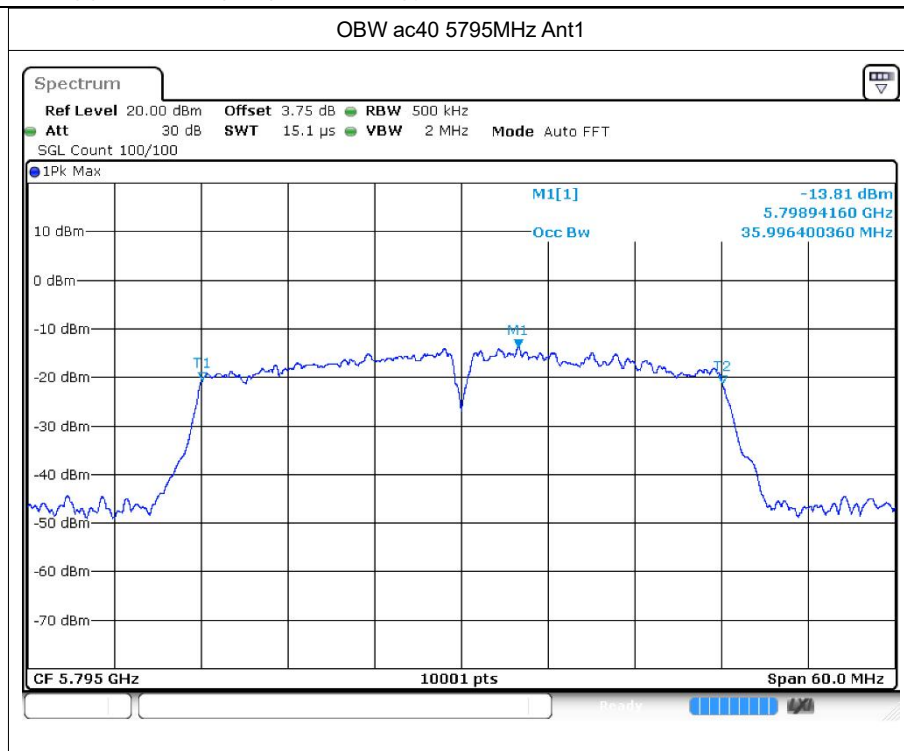


OBW ac20 5825MHz Ant1



OBW ac40 5755MHz Ant1





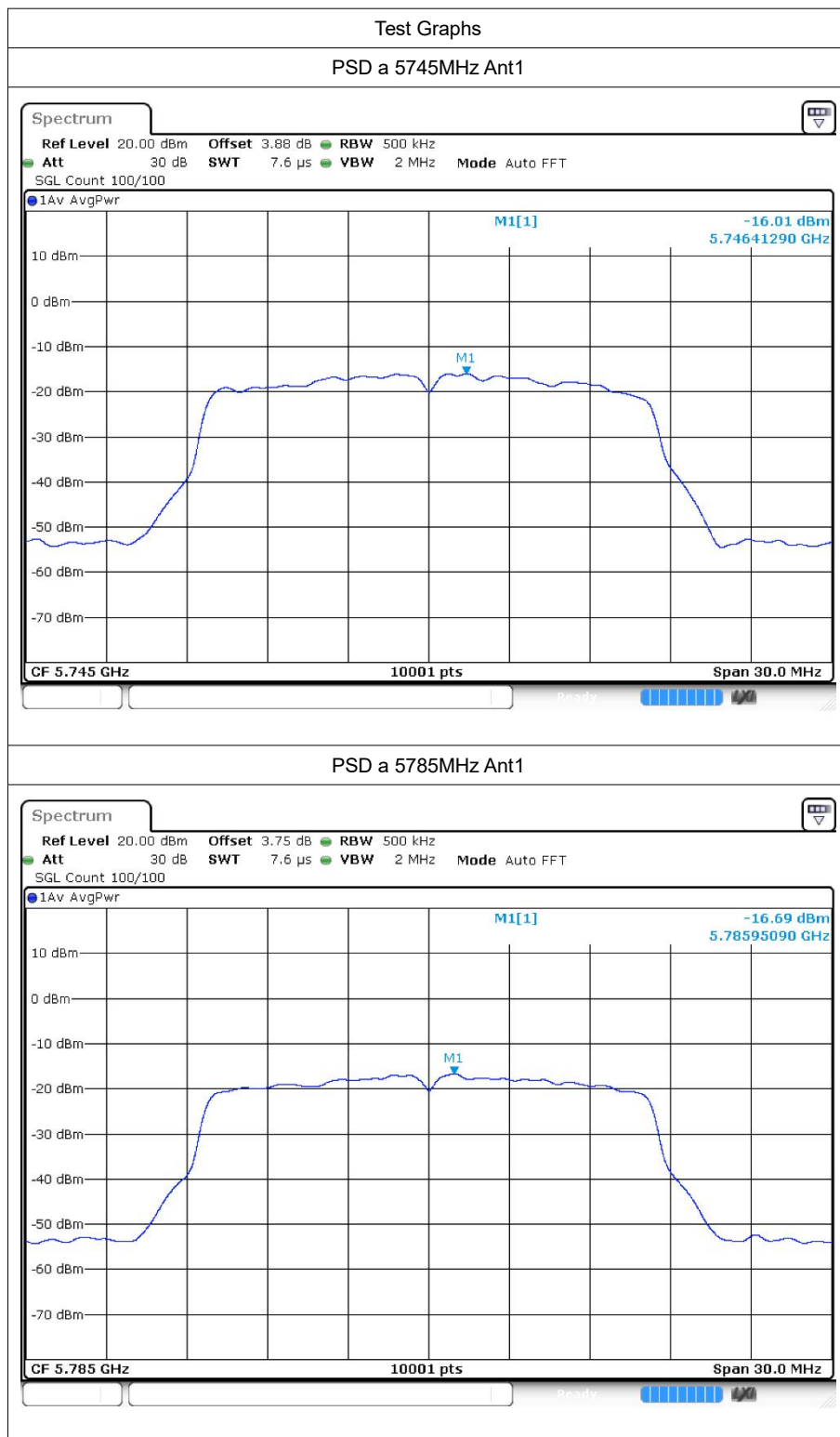


5 Maximum Power Spectral Density Level

5.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	-16.01	0.08	-15.93	30	Pass
a	5785	Ant1	-16.69	0.08	-16.61	30	Pass
a	5825	Ant1	-16.1	0.08	-16.02	30	Pass
n20	5745	Ant1	-16.63	0.08	-16.55	30	Pass
n20	5785	Ant1	-17.13	0.08	-17.05	30	Pass
n20	5825	Ant1	-16.53	0.08	-16.45	30	Pass
ac20	5745	Ant1	-16.28	0.08	-16.2	30	Pass
ac20	5785	Ant1	-16.4	0.08	-16.32	30	Pass
ac20	5825	Ant1	-15.62	0.08	-15.54	30	Pass
ac40	5755	Ant1	-20.52	0.4	-20.12	30	Pass
ac40	5795	Ant1	-20.64	0.38	-20.26	30	Pass

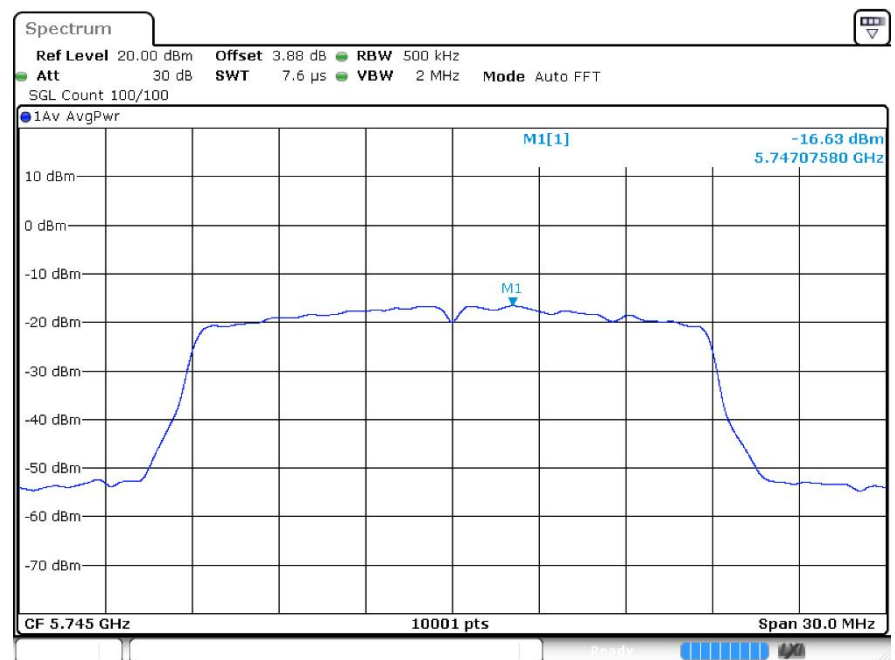
5.2 Test Graphs



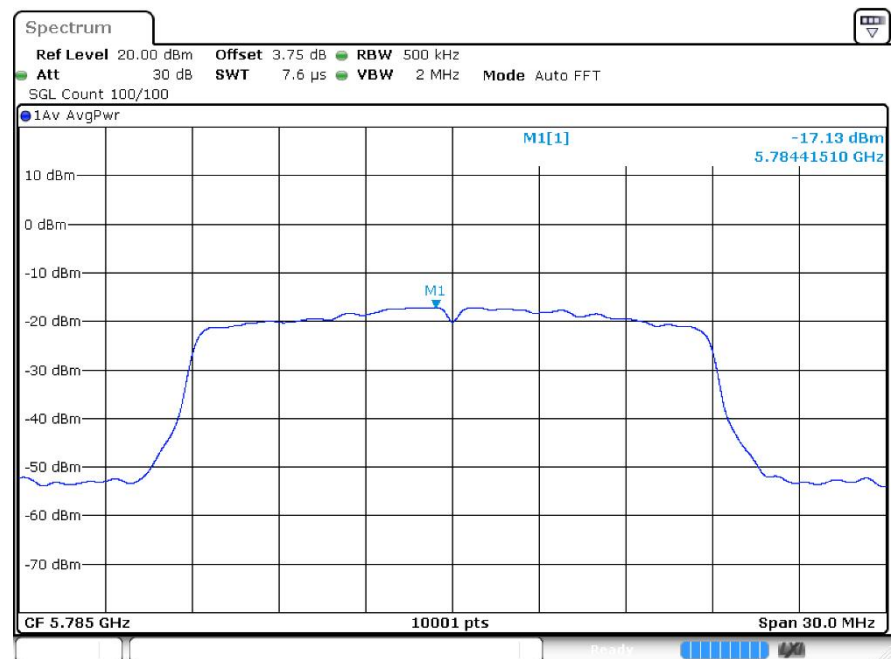
PSD a 5825MHz Ant1



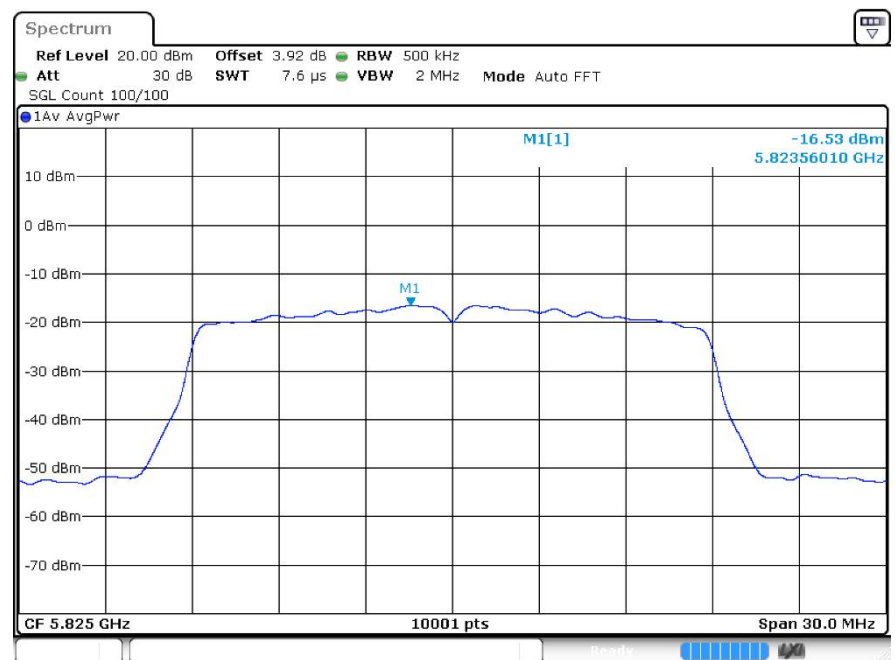
PSD n20 5745MHz Ant1



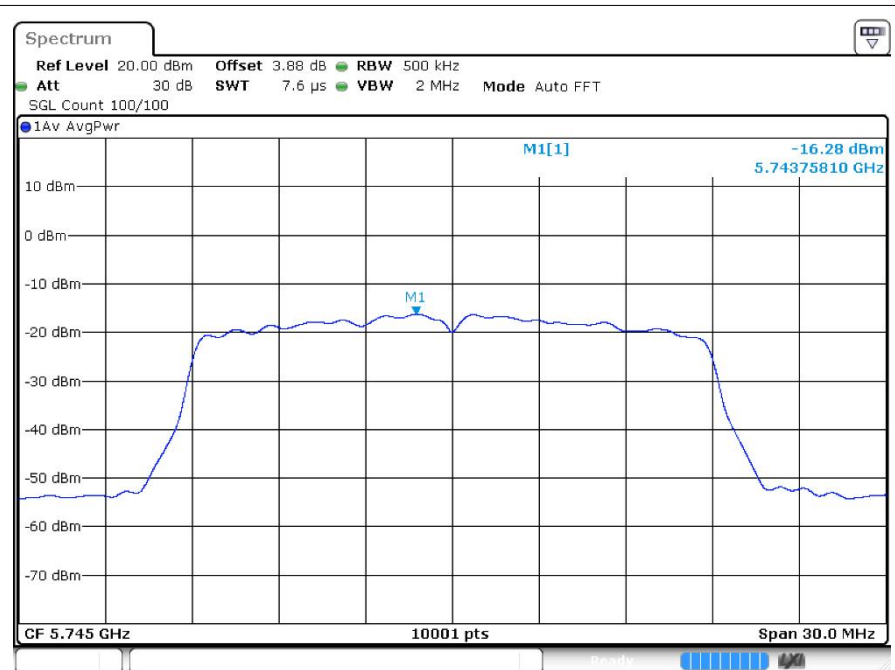
PSD n20 5785MHz Ant1



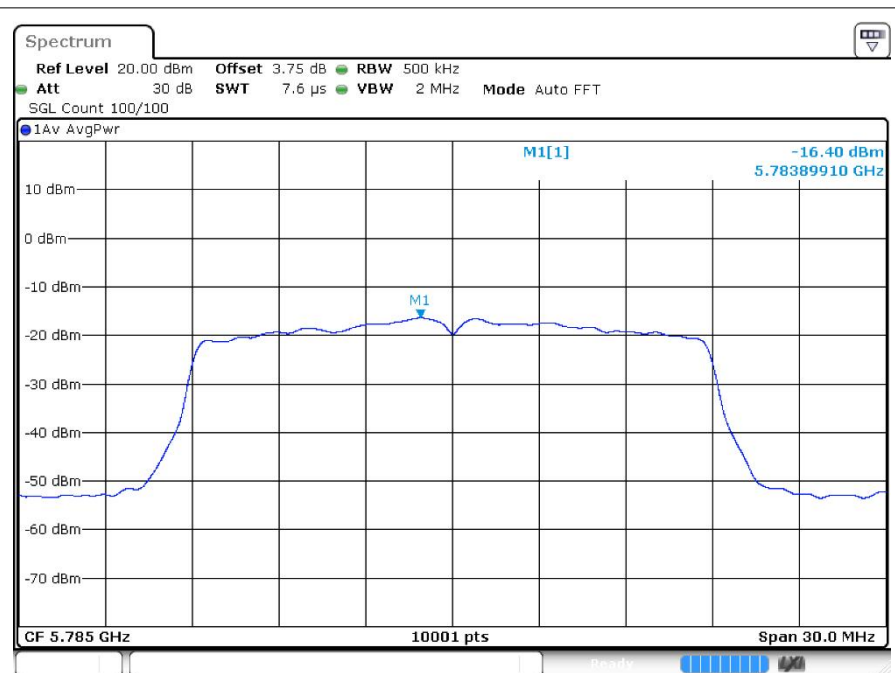
PSD n20 5825MHz Ant1



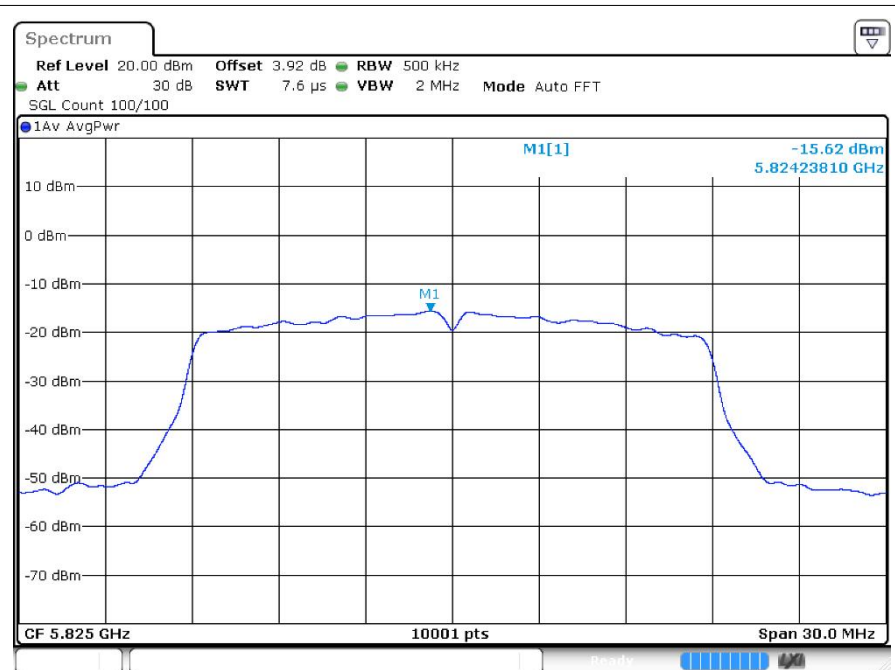
PSD ac20 5745MHz Ant1



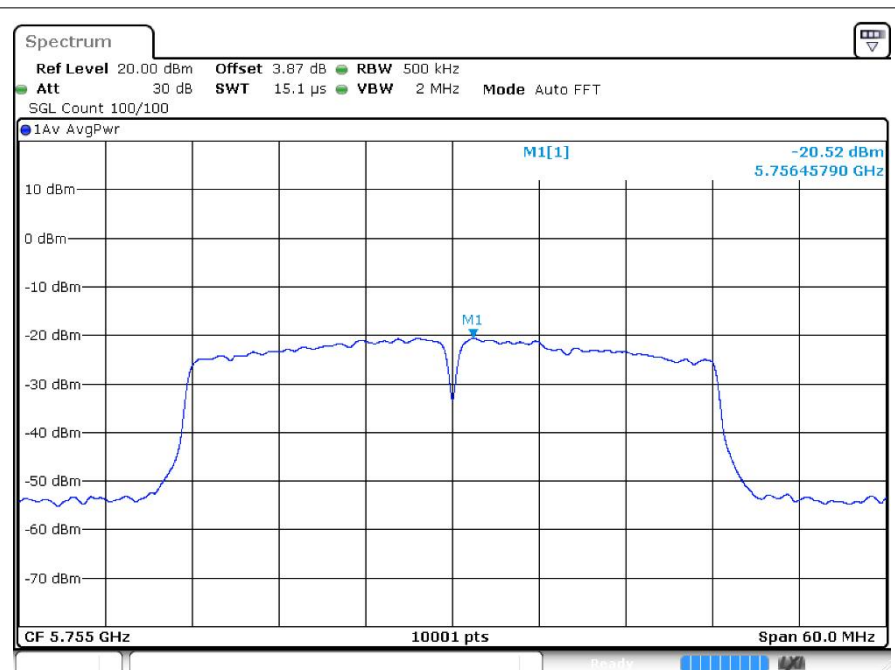
PSD ac20 5785MHz Ant1

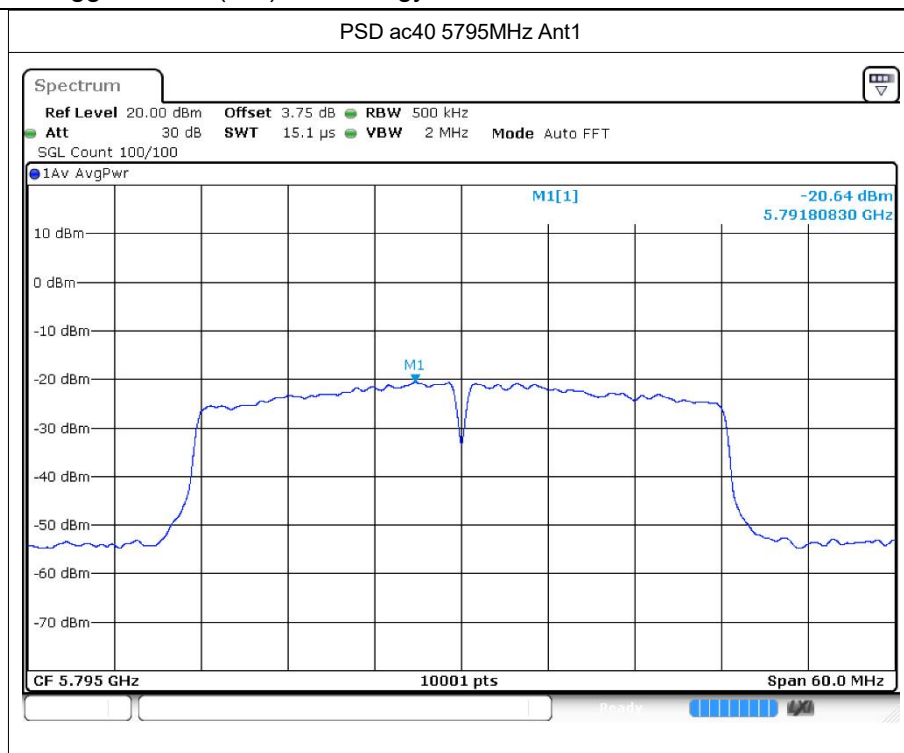


PSD ac20 5825MHz Ant1



PSD ac40 5755MHz 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	5745	Ant1	5745	0	0	25	Pass
20C 120V	a	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 138V	a	5745	Ant1	5745	0	0	25	Pass
-20C 120V	a	5745	Ant1	5744.98	-20000	-3.48	25	Pass
-10C 120V	a	5745	Ant1	5745	0	0	25	Pass
0C 120V	a	5745	Ant1	5744.98	-20000	-3.48	25	Pass
10C 120V	a	5745	Ant1	5744.98	-20000	-3.48	25	Pass
30C 120V	a	5745	Ant1	5745	0	0	25	Pass
40C 120V	a	5745	Ant1	5745	0	0	25	Pass
50C 120V	a	5745	Ant1	5745.02	20000	3.48	25	Pass
20C 102V	a	5785	Ant1	5785.02	20000	3.46	25	Pass
20C 120V	a	5785	Ant1	5785	0	0	25	Pass
20C 138V	a	5785	Ant1	5784.98	-20000	-3.46	25	Pass
-20C 120V	a	5785	Ant1	5785	0	0	25	Pass
-10C 120V	a	5785	Ant1	5785	0	0	25	Pass
0C 120V	a	5785	Ant1	5785	0	0	25	Pass
10C 120V	a	5785	Ant1	5785	0	0	25	Pass
30C 120V	a	5785	Ant1	5785.02	20000	3.46	25	Pass
40C 120V	a	5785	Ant1	5785	0	0	25	Pass
50C 120V	a	5785	Ant1	5785	0	0	25	Pass
20C 102V	a	5825	Ant1	5825	0	0	25	Pass
20C 120V	a	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 138V	a	5825	Ant1	5825	0	0	25	Pass
-20C 120V	a	5825	Ant1	5825	0	0	25	Pass
-10C 120V	a	5825	Ant1	5825	0	0	25	Pass
0C 120V	a	5825	Ant1	5825	0	0	25	Pass
10C 120V	a	5825	Ant1	5824.98	-20000	-3.43	25	Pass
30C 120V	a	5825	Ant1	5824.98	-20000	-3.43	25	Pass
40C 120V	a	5825	Ant1	5825	0	0	25	Pass
50C 120V	a	5825	Ant1	5825	0	0	25	Pass
20C 102V	n20	5745	Ant1	5745	0	0	25	Pass
20C 120V	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 138V	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
-20C 120V	n20	5745	Ant1	5745	0	0	25	Pass
-10C 120V	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass



0C 120V	n20	5745	Ant1	5745	0	0	25	Pass
10C 120V	n20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
30C 120V	n20	5745	Ant1	5745	0	0	25	Pass
40C 120V	n20	5745	Ant1	5745	0	0	25	Pass
50C 120V	n20	5745	Ant1	5745	0	0	25	Pass
20C 102V	n20	5785	Ant1	5785	0	0	25	Pass
20C 120V	n20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
20C 138V	n20	5785	Ant1	5785	0	0	25	Pass
-20C 120V	n20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
-10C 120V	n20	5785	Ant1	5785.02	20000	3.46	25	Pass
0C 120V	n20	5785	Ant1	5785	0	0	25	Pass
10C 120V	n20	5785	Ant1	5785.02	20000	3.46	25	Pass
30C 120V	n20	5785	Ant1	5785	0	0	25	Pass
40C 120V	n20	5785	Ant1	5785.02	20000	3.46	25	Pass
50C 120V	n20	5785	Ant1	5785	0	0	25	Pass
20C 102V	n20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 120V	n20	5825	Ant1	5825	0	0	25	Pass
20C 138V	n20	5825	Ant1	5825	0	0	25	Pass
-20C 120V	n20	5825	Ant1	5825	0	0	25	Pass
-10C 120V	n20	5825	Ant1	5825	0	0	25	Pass
0C 120V	n20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
10C 120V	n20	5825	Ant1	5825	0	0	25	Pass
30C 120V	n20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
40C 120V	n20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
50C 120V	n20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 102V	ac20	5745	Ant1	5745.02	20000	3.48	25	Pass
20C 120V	ac20	5745	Ant1	5745	0	0	25	Pass
20C 138V	ac20	5745	Ant1	5745	0	0	25	Pass
-20C 120V	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
-10C 120V	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
0C 120V	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
10C 120V	ac20	5745	Ant1	5745	0	0	25	Pass
30C 120V	ac20	5745	Ant1	5745.02	20000	3.48	25	Pass
40C 120V	ac20	5745	Ant1	5745	0	0	25	Pass
50C 120V	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 102V	ac20	5785	Ant1	5785	0	0	25	Pass
20C 120V	ac20	5785	Ant1	5785	0	0	25	Pass
20C 138V	ac20	5785	Ant1	5785.04	40000	6.91	25	Pass
-20C 120V	ac20	5785	Ant1	5785	0	0	25	Pass
-10C 120V	ac20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
0C 120V	ac20	5785	Ant1	5785.02	20000	3.46	25	Pass
10C 120V	ac20	5785	Ant1	5785.02	20000	3.46	25	Pass
30C 120V	ac20	5785	Ant1	5785	0	0	25	Pass



40C 120V	ac20	5785	Ant1	5785.02	20000	3.46	25	Pass
50C 120V	ac20	5785	Ant1	5785.02	20000	3.46	25	Pass
20C 102V	ac20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 120V	ac20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 138V	ac20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
-20C 120V	ac20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
-10C 120V	ac20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
0C 120V	ac20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
10C 120V	ac20	5825	Ant1	5825	0	0	25	Pass
30C 120V	ac20	5825	Ant1	5825	0	0	25	Pass
40C 120V	ac20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
50C 120V	ac20	5825	Ant1	5825.02	20000	3.43	25	Pass
20C 102V	ac40	5755	Ant1	5755	0	0	25	Pass
20C 120V	ac40	5755	Ant1	5755	0	0	25	Pass
20C 138V	ac40	5755	Ant1	5755	0	0	25	Pass
-20C 120V	ac40	5755	Ant1	5755	0	0	25	Pass
-10C 120V	ac40	5755	Ant1	5755	0	0	25	Pass
0C 120V	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
10C 120V	ac40	5755	Ant1	5755	0	0	25	Pass
30C 120V	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
40C 120V	ac40	5755	Ant1	5755	0	0	25	Pass
50C 120V	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
20C 102V	ac40	5795	Ant1	5795	0	0	25	Pass
20C 120V	ac40	5795	Ant1	5795.04	40000	6.9	25	Pass
20C 138V	ac40	5795	Ant1	5795	0	0	25	Pass
-20C 120V	ac40	5795	Ant1	5795	0	0	25	Pass
-10C 120V	ac40	5795	Ant1	5795	0	0	25	Pass
0C 120V	ac40	5795	Ant1	5795.04	40000	6.9	25	Pass
10C 120V	ac40	5795	Ant1	5795	0	0	25	Pass
30C 120V	ac40	5795	Ant1	5795	0	0	25	Pass
40C 120V	ac40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
50C 120V	ac40	5795	Ant1	5795	0	0	25	Pass



7 Conducted RF Spurious Emission

7.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
a	5745	Ant1	-35.92	-27	Pass
a	5785	Ant1	-36.53	-27	Pass
a	5825	Ant1	-35.95	-27	Pass
n20	5745	Ant1	-36.77	-27	Pass
n20	5785	Ant1	-37.02	-27	Pass
n20	5825	Ant1	-36.32	-27	Pass
ac20	5745	Ant1	-36.47	-27	Pass
ac20	5785	Ant1	-36.6	-27	Pass
ac20	5825	Ant1	-35.4	-27	Pass
ac40	5755	Ant1	-36.56	-27	Pass
ac40	5795	Ant1	-36.72	-27	Pass