



## Appendix E-1

### RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: RF Wireless module

Trade Mark: INNOCN

Test Model: AW.S905D3.03

Environmental Conditions

Temperature:	25.4° C
Relative Humidity:	51.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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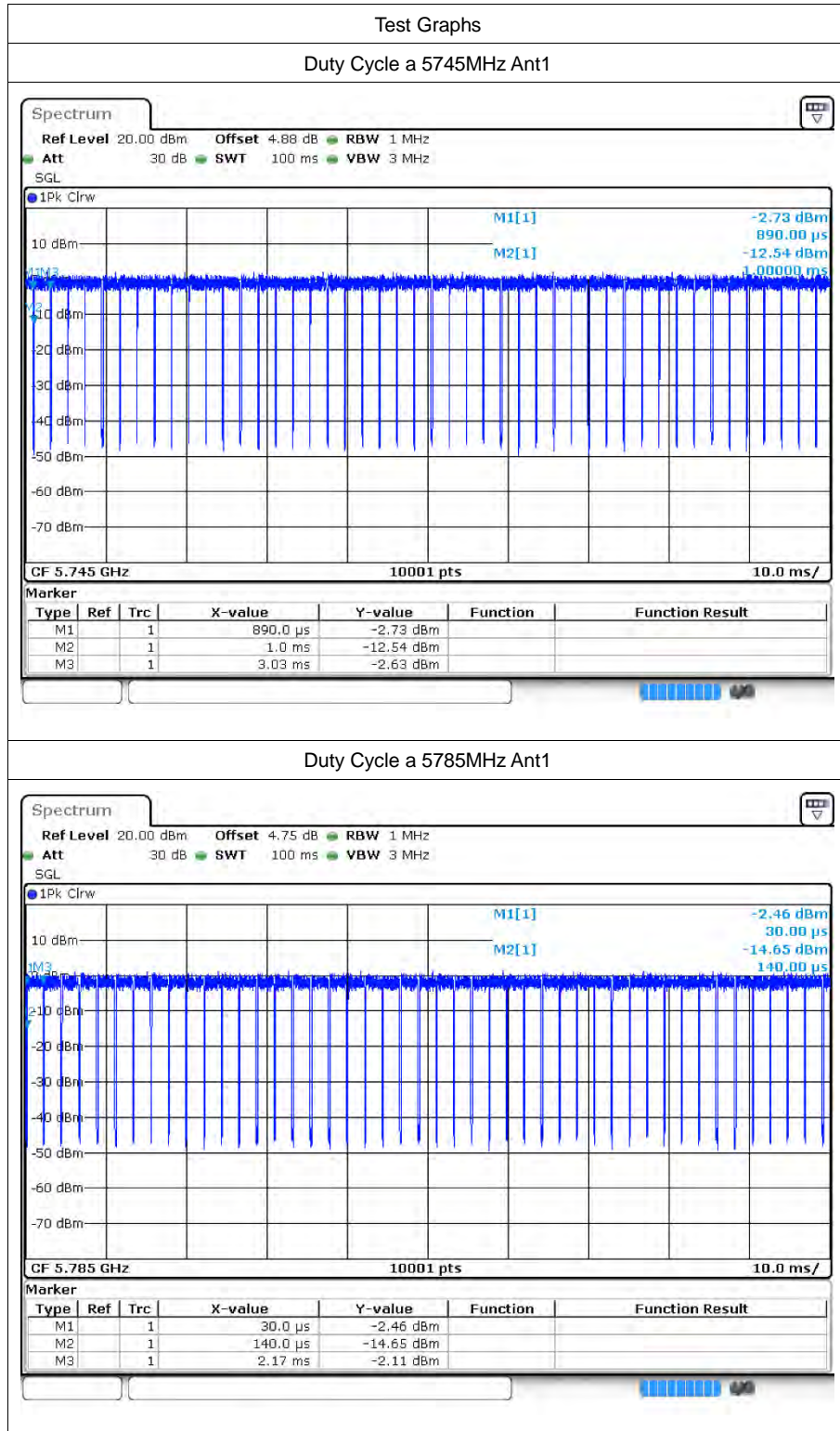
# 1 Duty Cycle

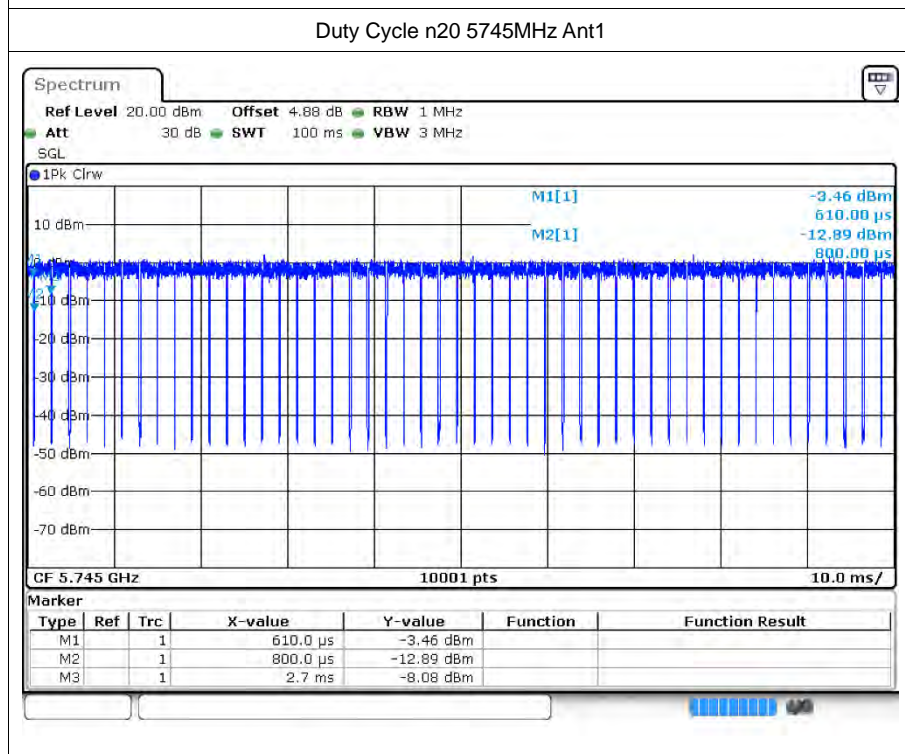
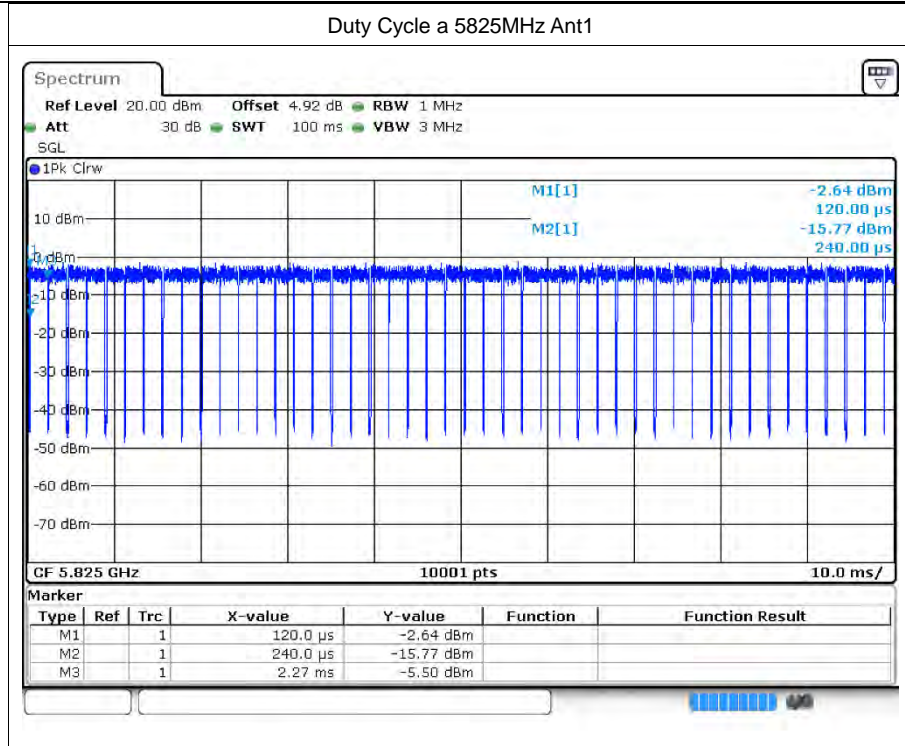
## 1.1 Test Result

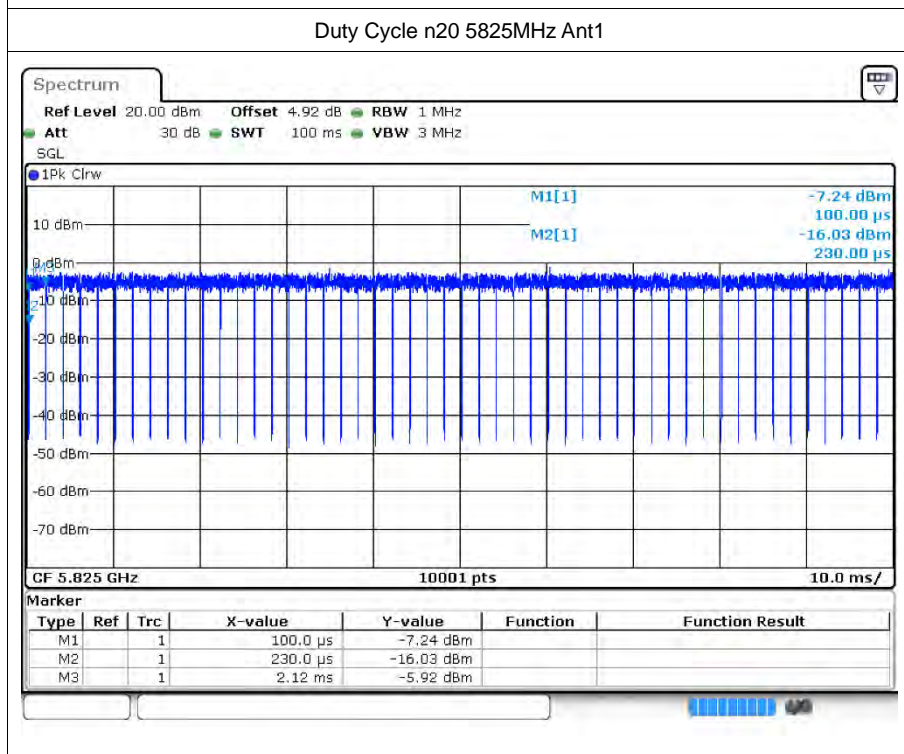
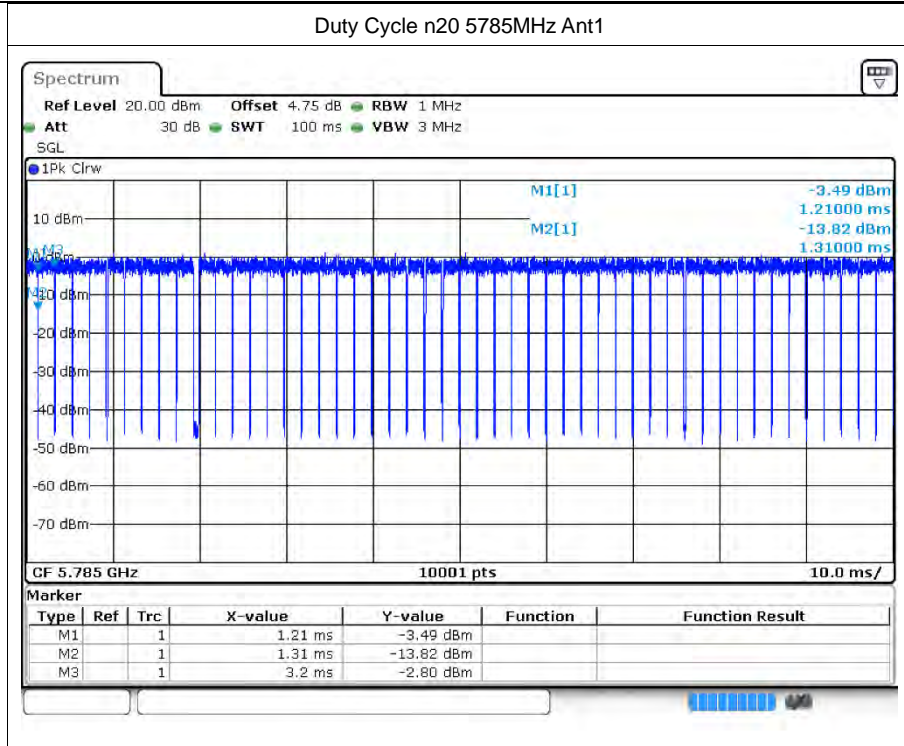
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	94.48	0.25	0.49
a	5785	Ant1	92.73	0.33	0.49
a	5825	Ant1	93.15	0.31	0.49
n20	5745	Ant1	93.33	0.3	0.53
n20	5785	Ant1	94.39	0.25	0.53
n20	5825	Ant1	95.11	0.22	0.53
n40	5755	Ant1	89.48	0.48	1.08
n40	5795	Ant1	88.86	0.51	1.08
ac20	5745	Ant1	92.53	0.34	0.53
ac20	5785	Ant1	95.09	0.22	0.53
ac20	5825	Ant1	94.45	0.25	0.53
ac40	5755	Ant1	89.05	0.5	1.08
ac40	5795	Ant1	89	0.51	1.08
ax20	5745	Ant1	92.56	0.34	0.69
ax20	5785	Ant1	92.03	0.36	0.69
ax20	5825	Ant1	93.84	0.28	0.68
ax40	5755	Ant1	85.61	0.67	1.33
ax40	5795	Ant1	86.48	0.63	1.33

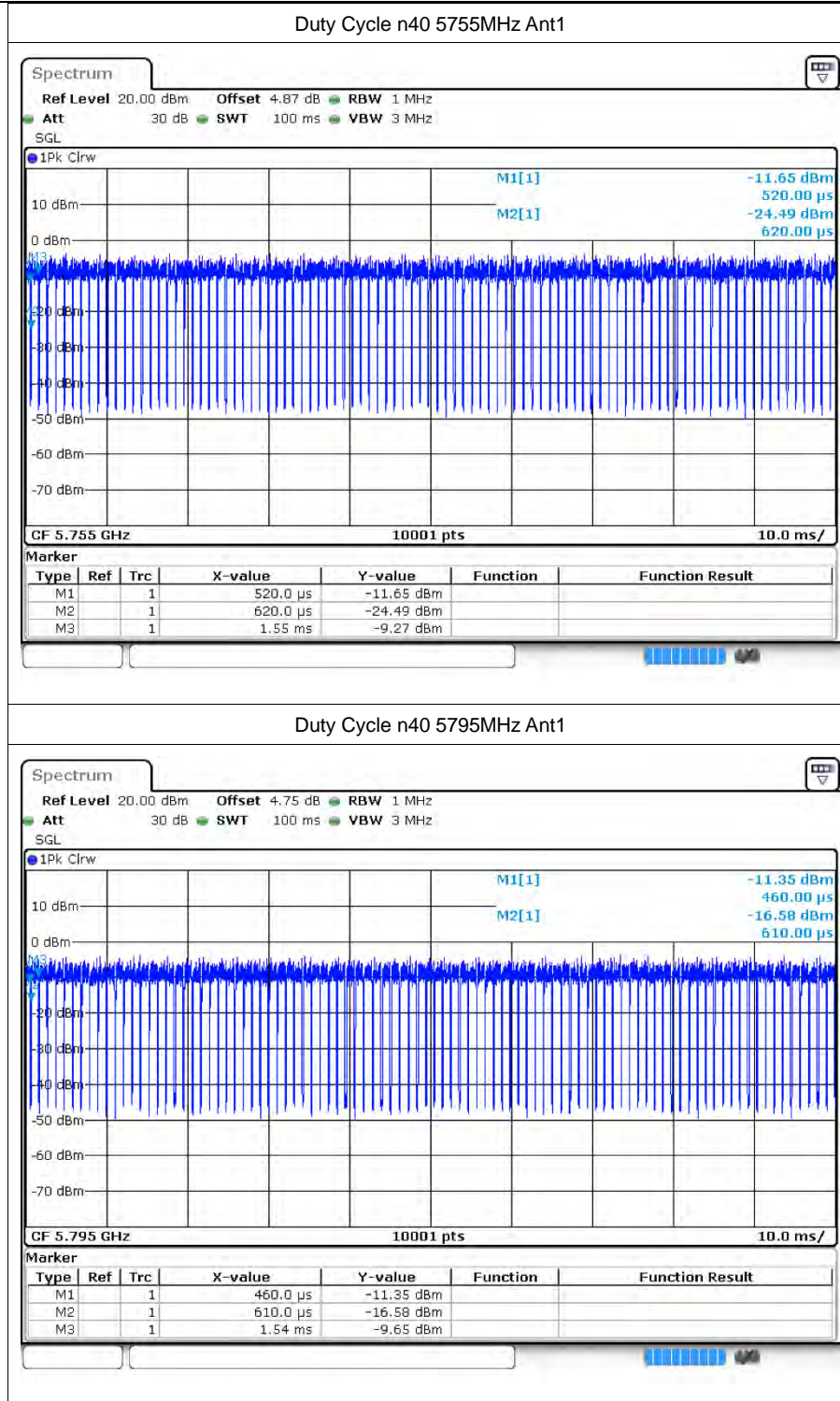


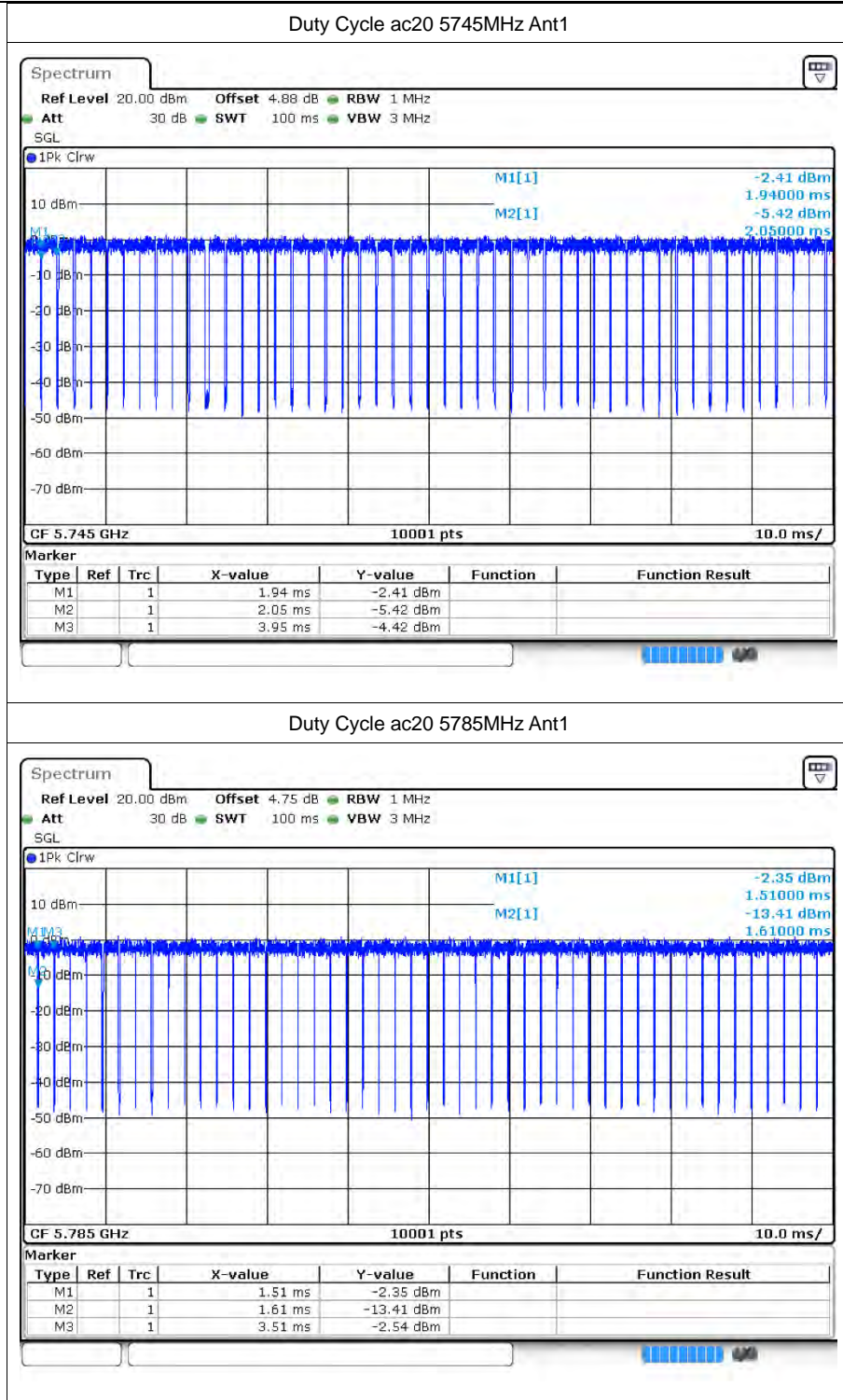
### 1.2 Test Graphs



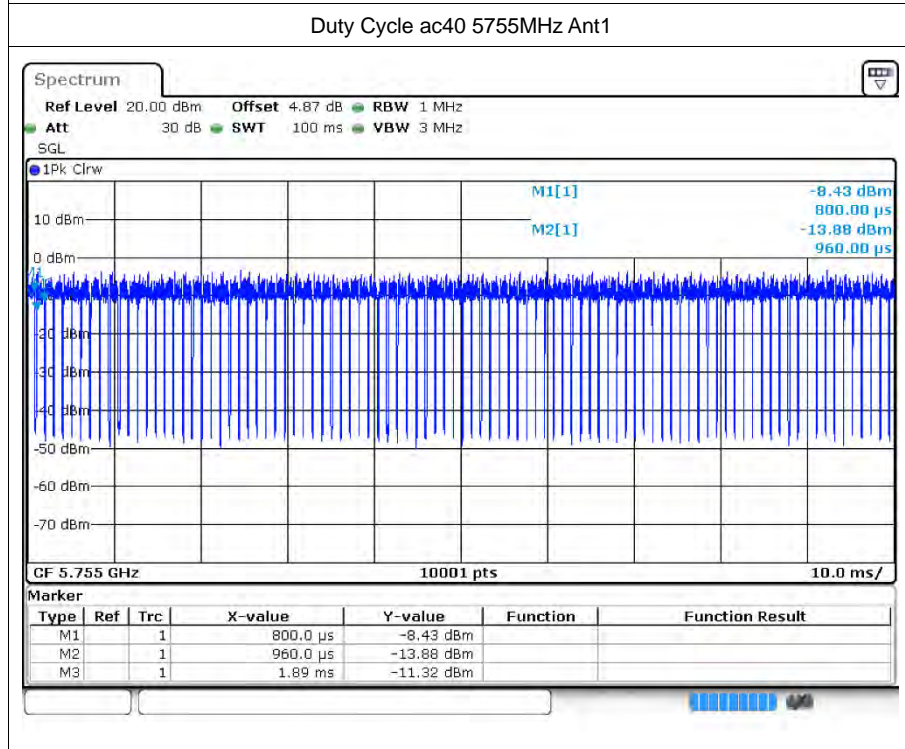
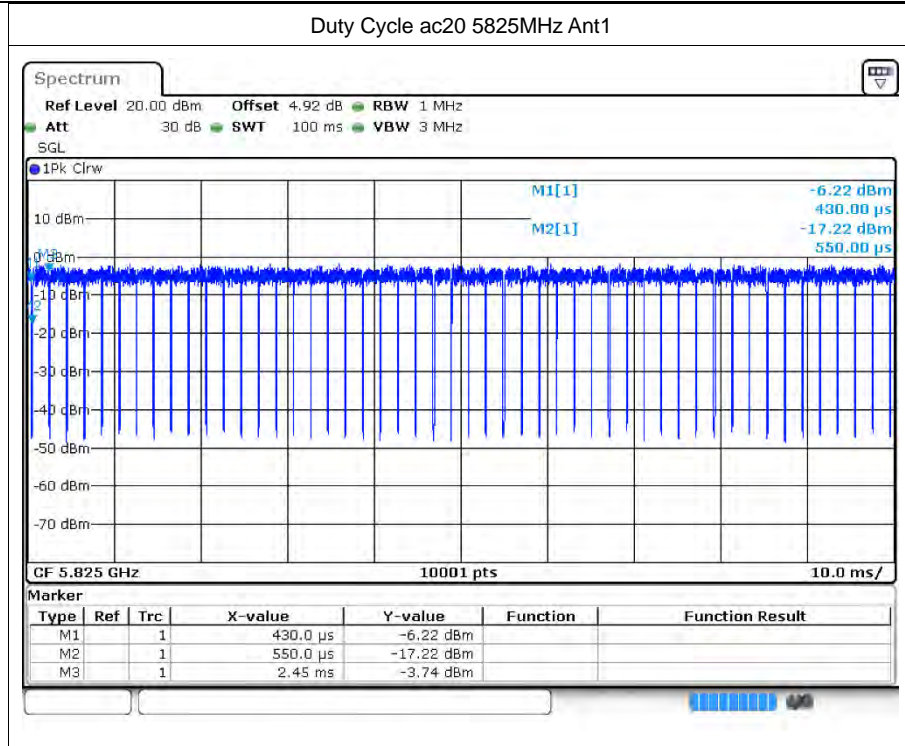


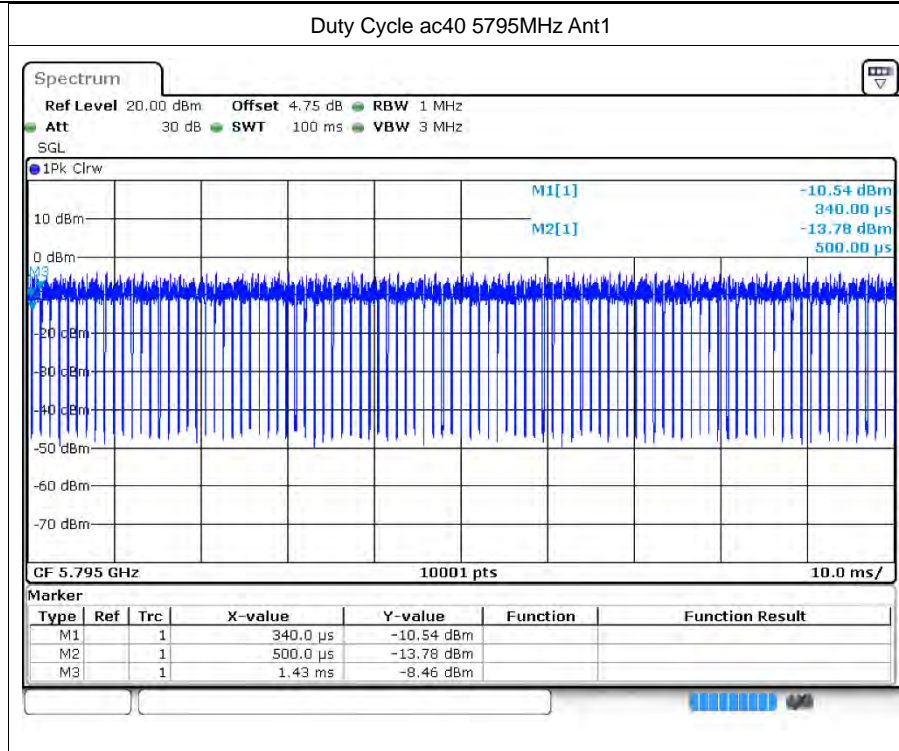










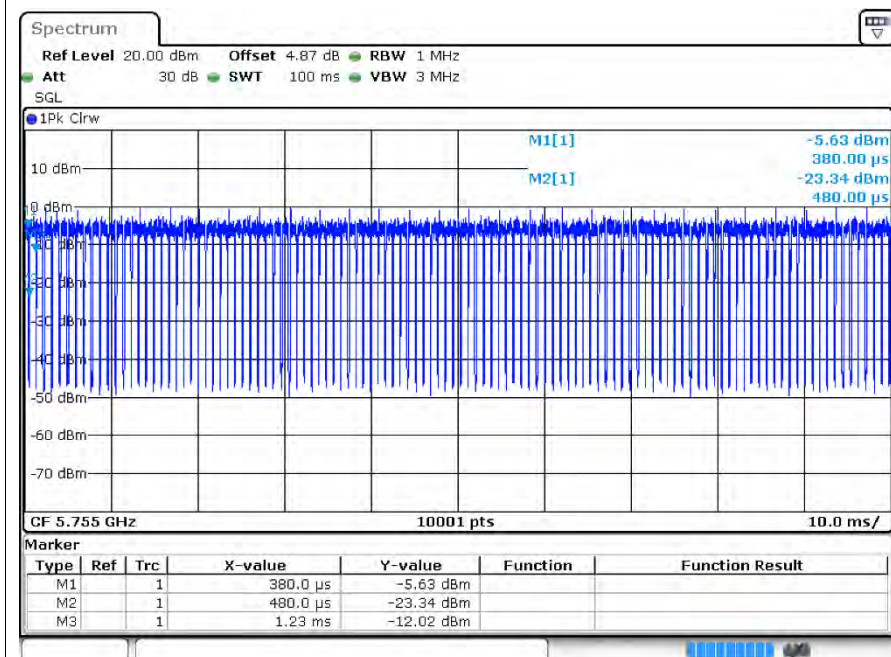


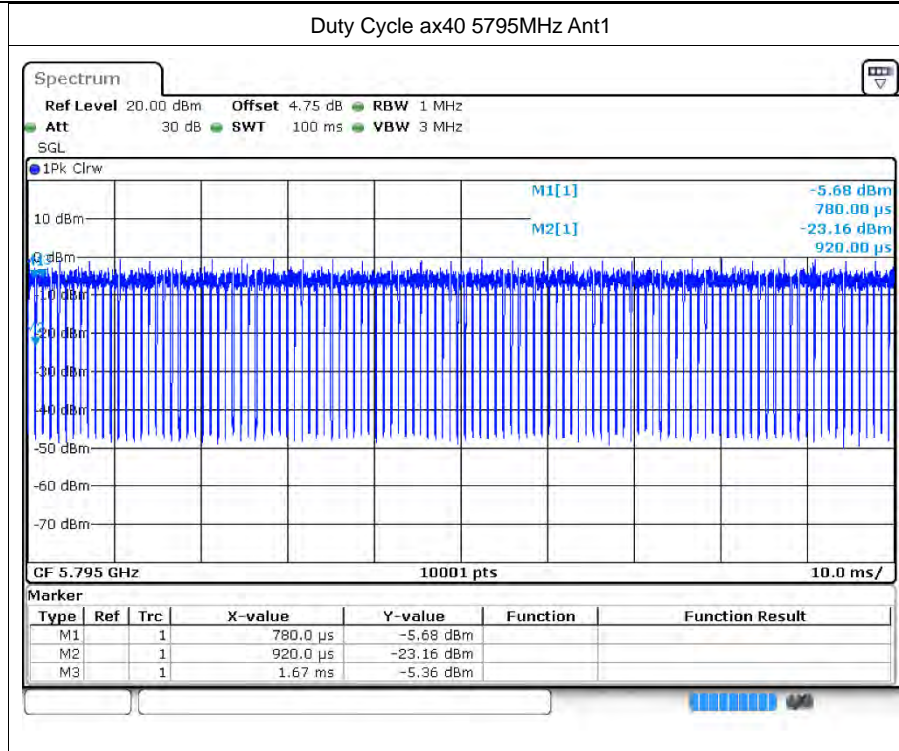


Duty Cycle ax20 5825MHz Ant1



Duty Cycle ax40 5755MHz Ant1







## 2 Maximum Conducted Output Power

### 2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	9.68	0.25	9.93	30	Pass
a	5785	Ant1	8.78	0.33	9.11	30	Pass
a	5825	Ant1	6.15	0.31	6.46	30	Pass
n20	5745	Ant1	9.17	0.3	9.47	30	Pass
n20	5785	Ant1	8.44	0.25	8.69	30	Pass
n20	5825	Ant1	5.92	0.22	6.14	30	Pass
n40	5755	Ant1	8.87	0.48	9.35	30	Pass
n40	5795	Ant1	8.12	0.51	8.63	30	Pass
ac20	5745	Ant1	9.13	0.34	9.47	30	Pass
ac20	5785	Ant1	8.54	0.22	8.76	30	Pass
ac20	5825	Ant1	5.96	0.25	6.21	30	Pass
ac40	5755	Ant1	8.93	0.5	9.43	30	Pass
ac40	5795	Ant1	8.04	0.51	8.55	30	Pass
ax20	5745	Ant1	10.26	0.34	10.6	30	Pass
ax20	5785	Ant1	9.49	0.36	9.85	30	Pass
ax20	5825	Ant1	7.06	0.28	7.34	30	Pass
ax40	5755	Ant1	9.82	0.67	10.49	30	Pass
ax40	5795	Ant1	9.25	0.63	9.88	30	Pass



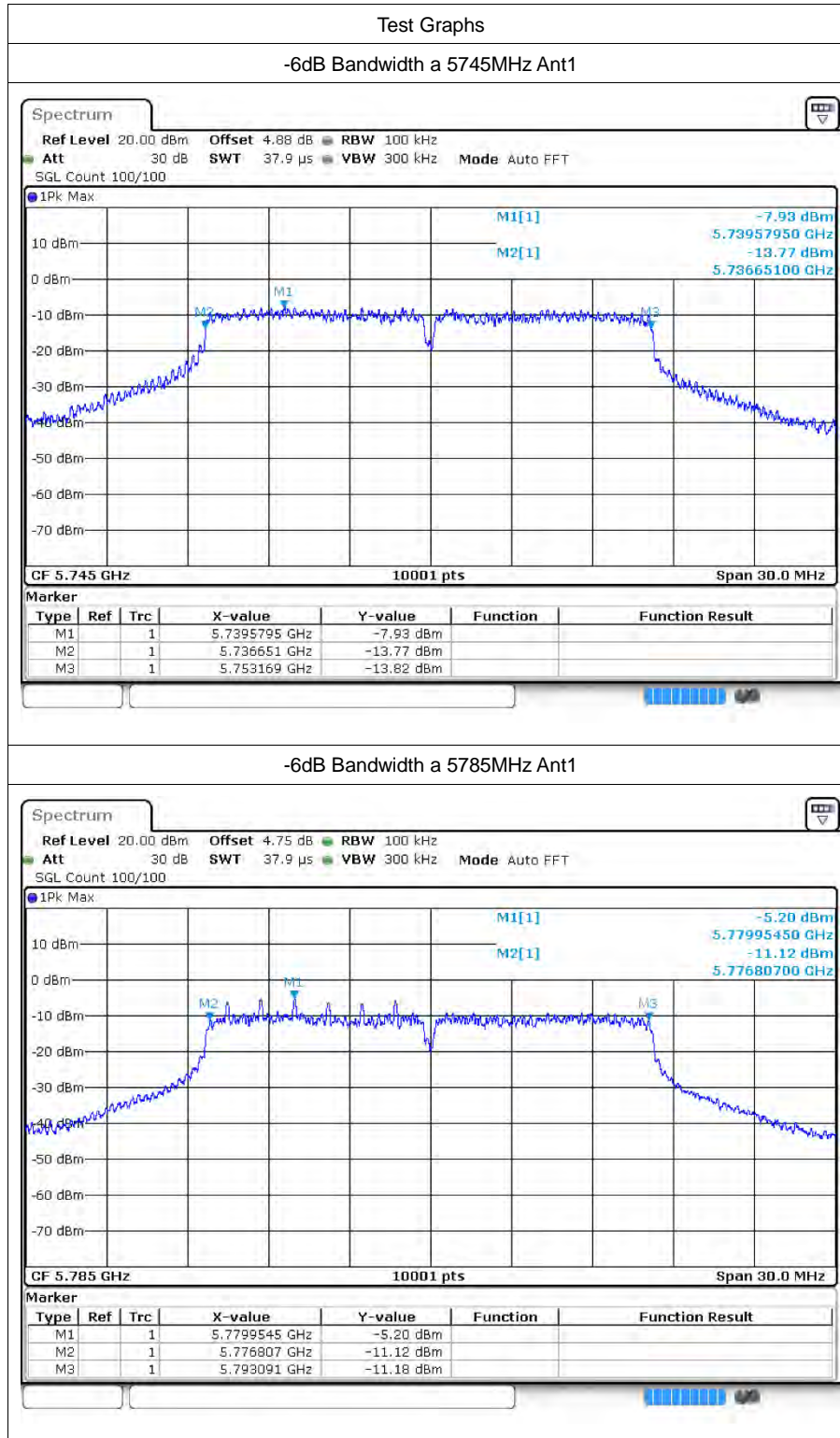
### 3 -6dB Bandwidth

#### 3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	16.518	0.5	Pass
a	5785	Ant1	16.284	0.5	Pass
a	5825	Ant1	16.542	0.5	Pass
n20	5745	Ant1	17.574	0.5	Pass
n20	5785	Ant1	17.787	0.5	Pass
n20	5825	Ant1	17.7	0.5	Pass
n40	5755	Ant1	36.336	0.5	Pass
n40	5795	Ant1	36.084	0.5	Pass
ac20	5745	Ant1	17.697	0.5	Pass
ac20	5785	Ant1	17.526	0.5	Pass
ac20	5825	Ant1	17.547	0.5	Pass
ac40	5755	Ant1	36.318	0.5	Pass
ac40	5795	Ant1	36.048	0.5	Pass
ax20	5745	Ant1	19.062	0.5	Pass
ax20	5785	Ant1	19.023	0.5	Pass
ax20	5825	Ant1	18.666	0.5	Pass
ax40	5755	Ant1	37.902	0.5	Pass
ax40	5795	Ant1	37.854	0.5	Pass

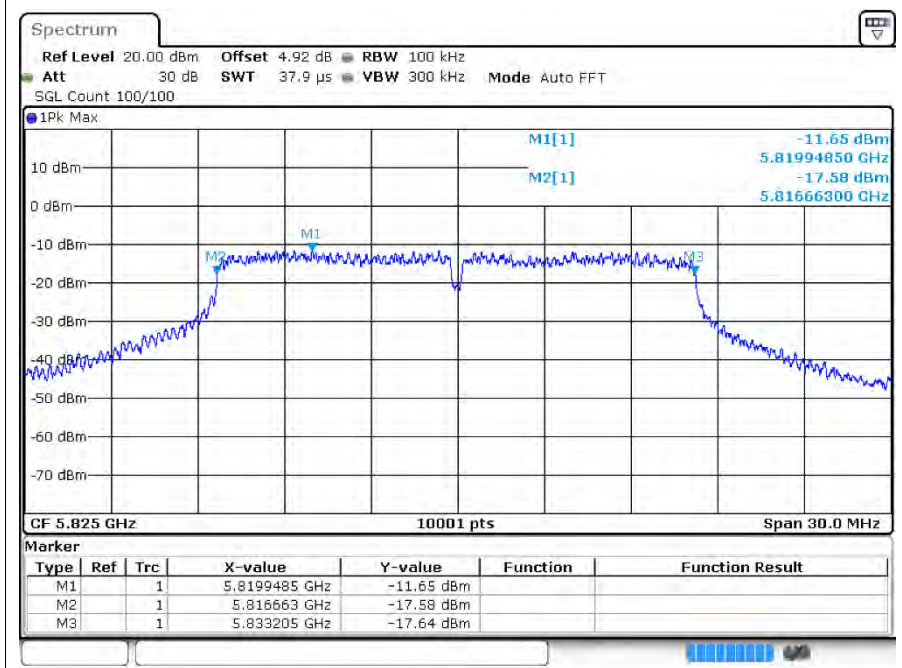


### 3.2 Test Graphs

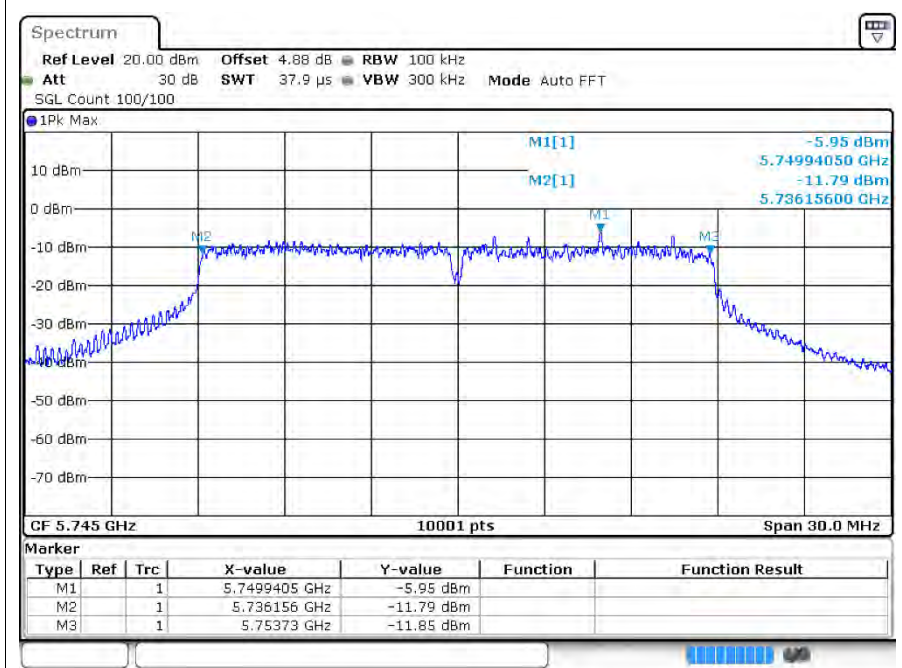




-6dB Bandwidth a 5825MHz Ant1



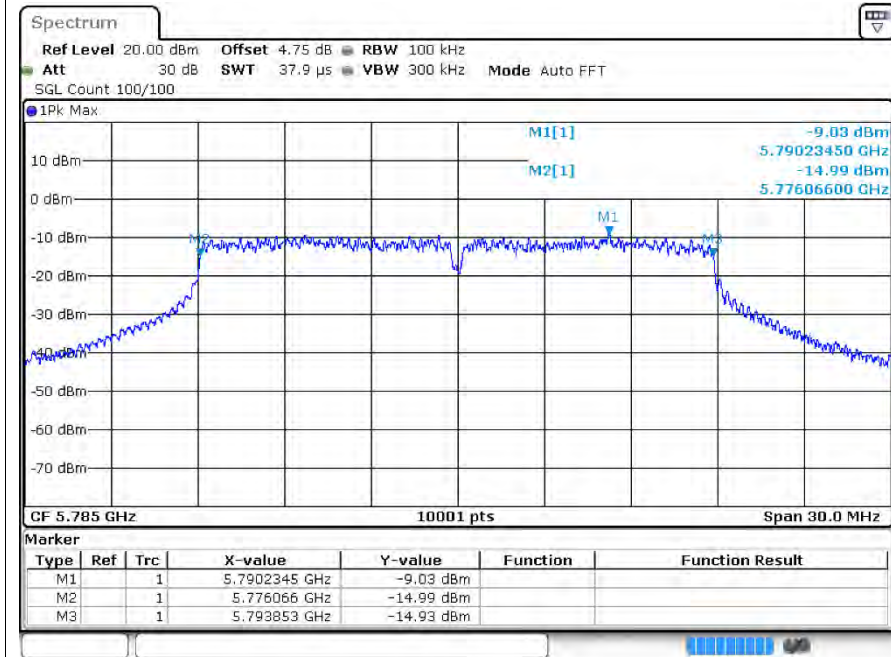
-6dB Bandwidth n20 5745MHz Ant1



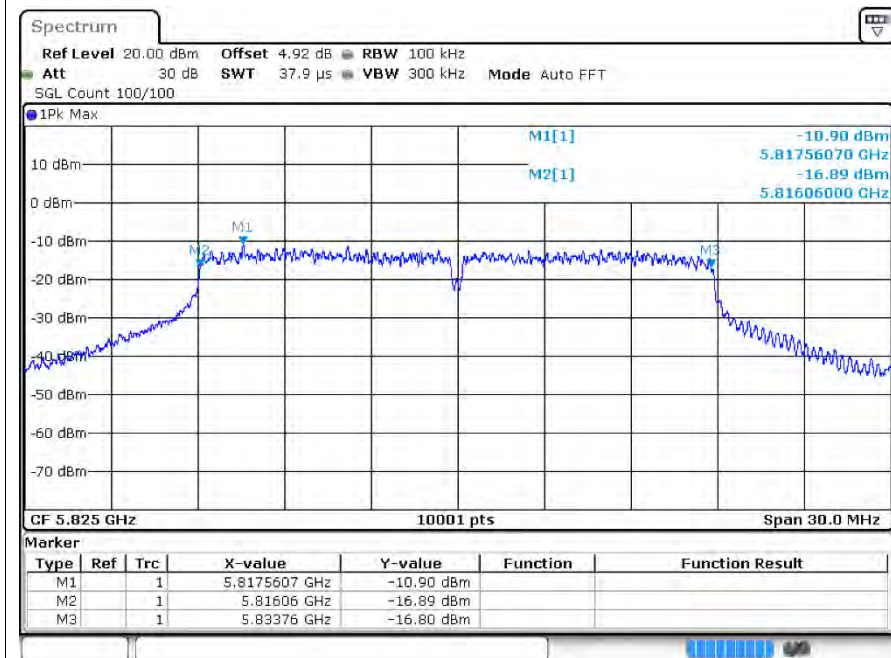




-6dB Bandwidth n20 5785MHz Ant1

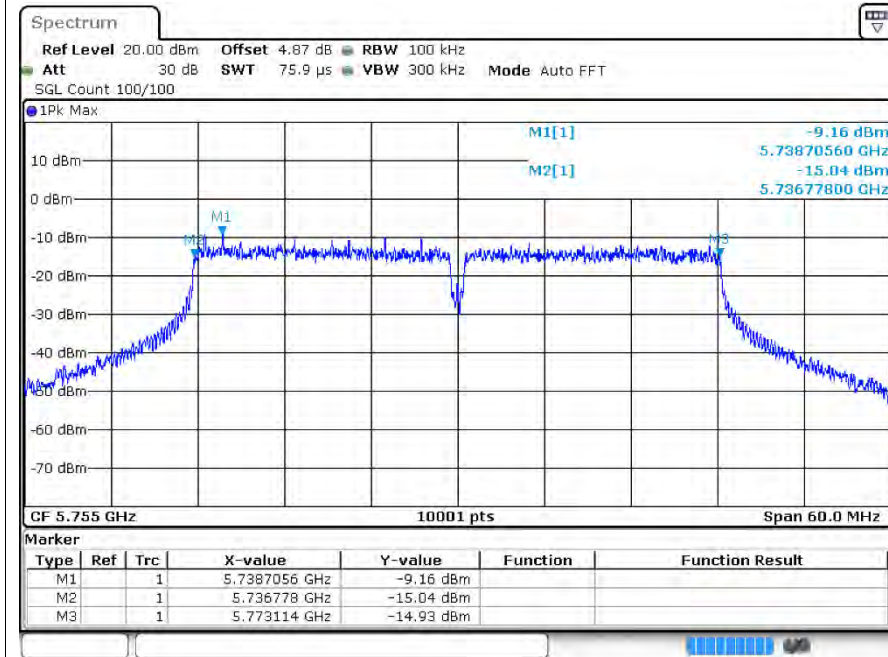


-6dB Bandwidth n20 5825MHz Ant1

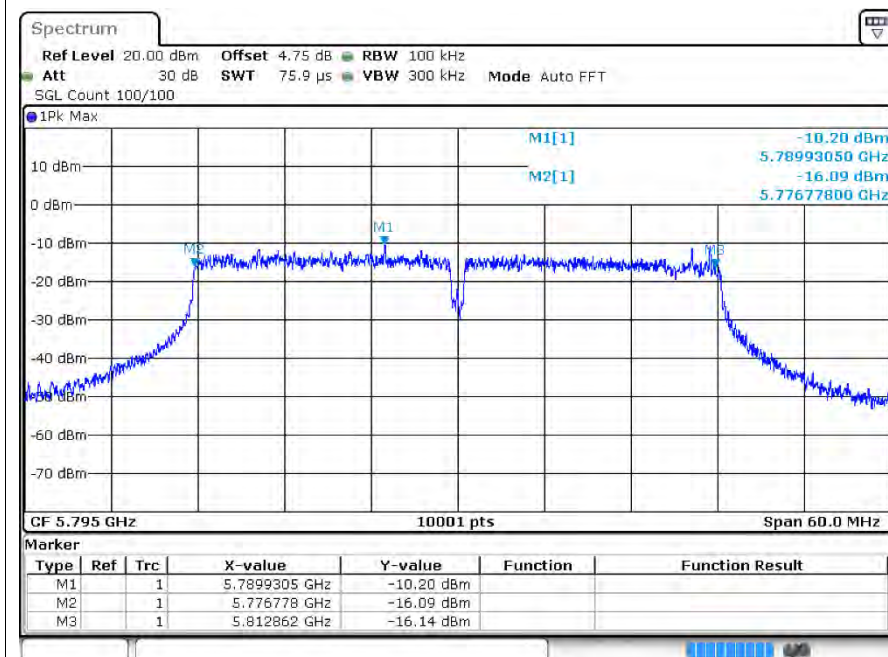




-6dB Bandwidth n40 5755MHz Ant1

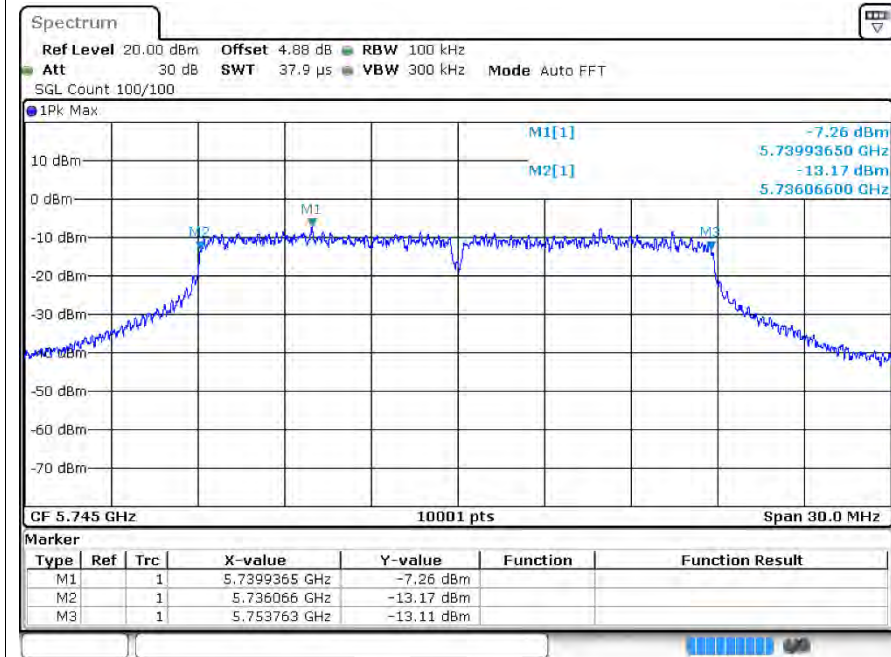


-6dB Bandwidth n40 5795MHz Ant1

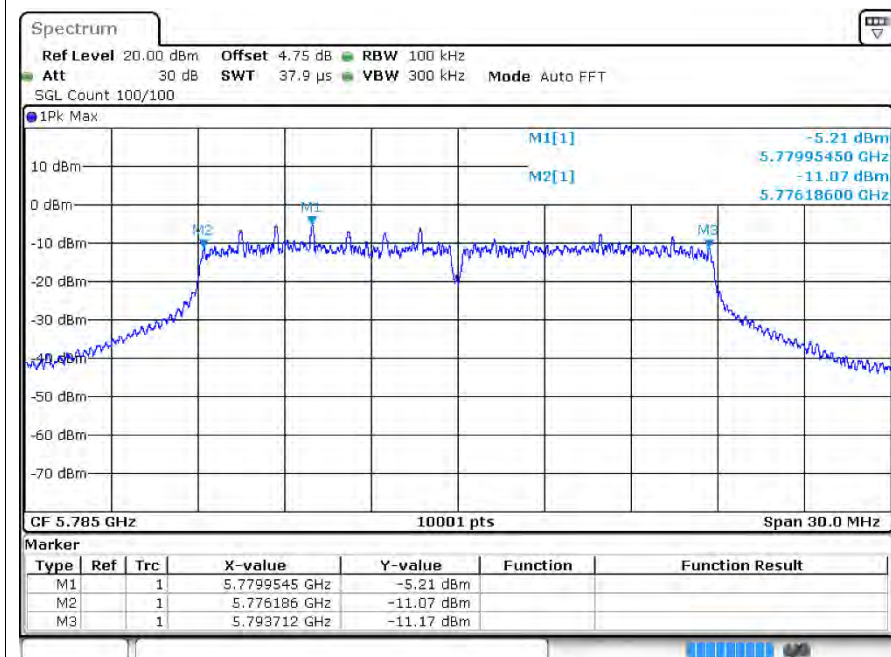


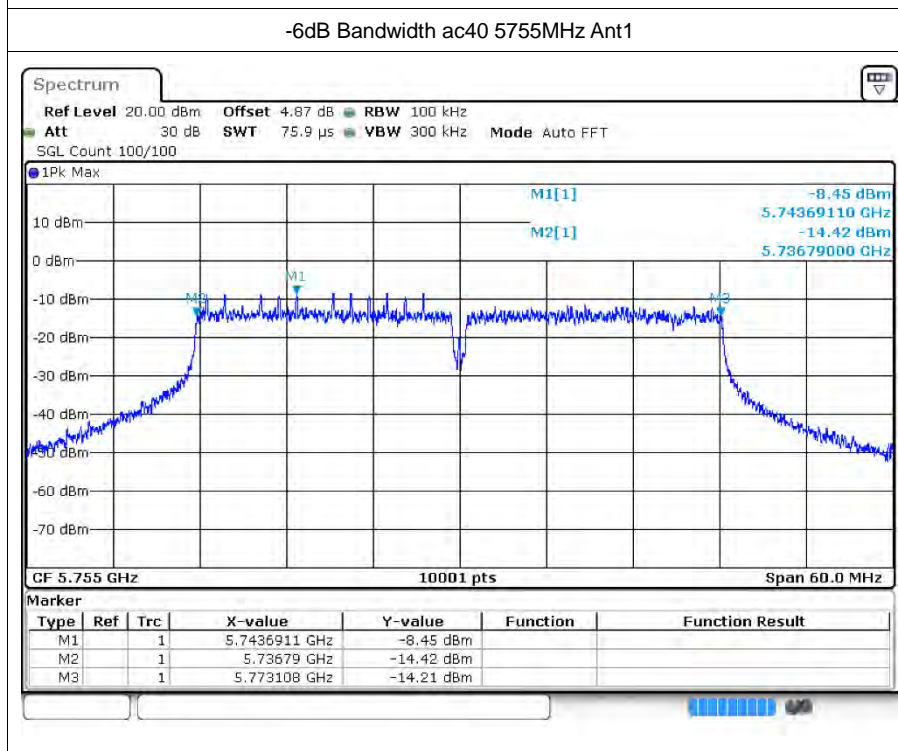
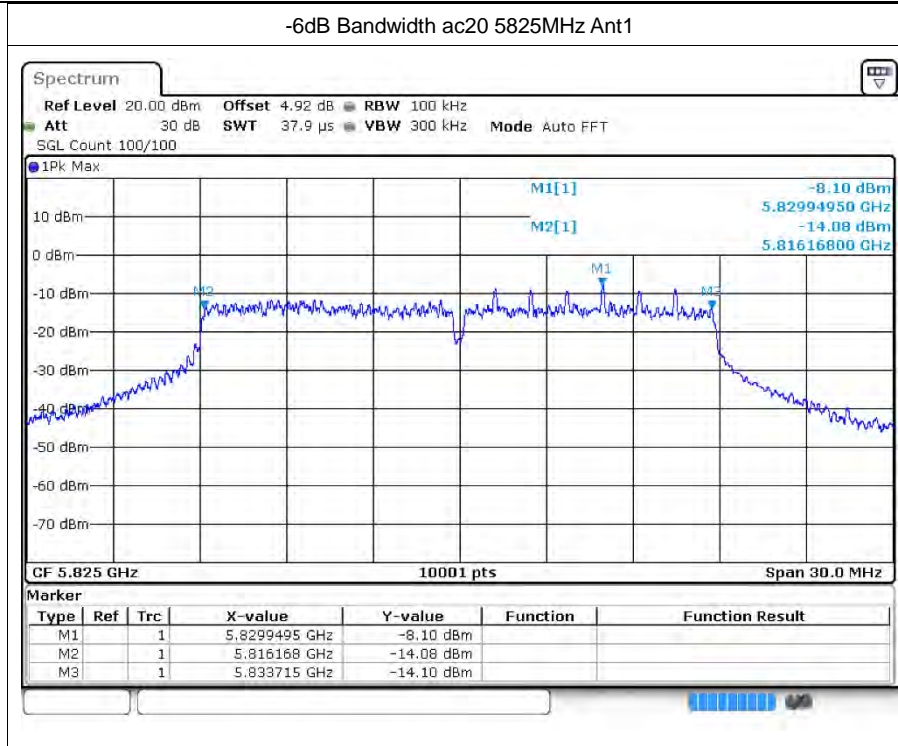


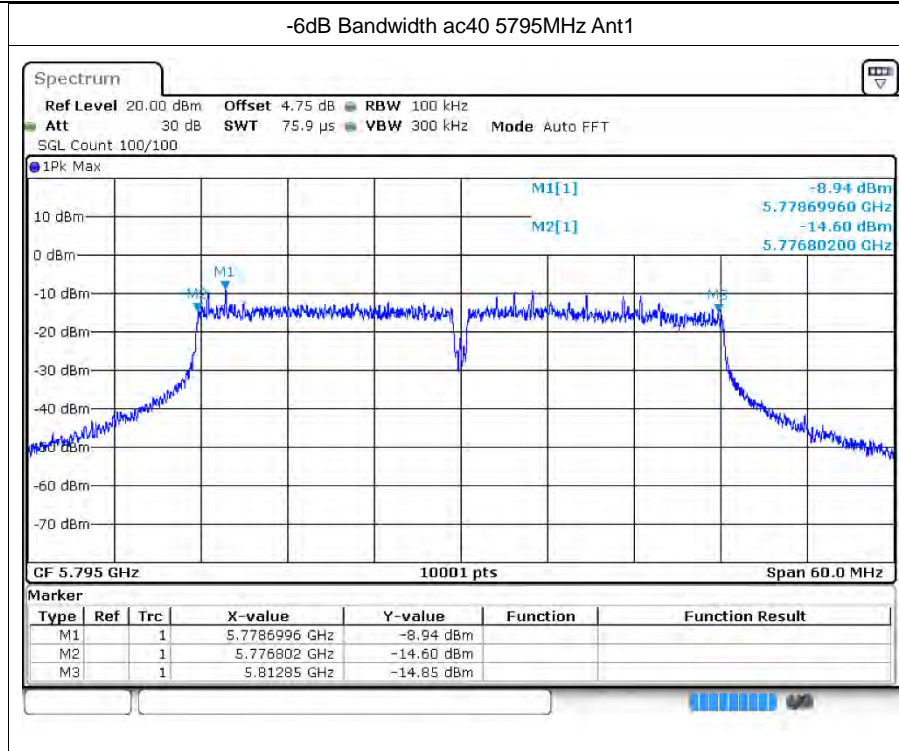
-6dB Bandwidth ac20 5745MHz Ant1



-6dB Bandwidth ac20 5785MHz Ant1

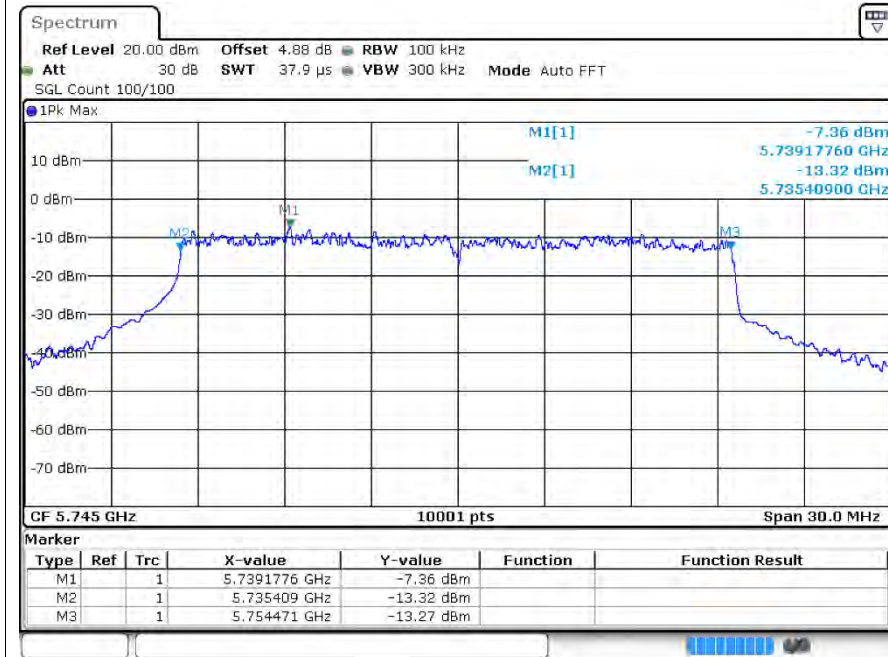




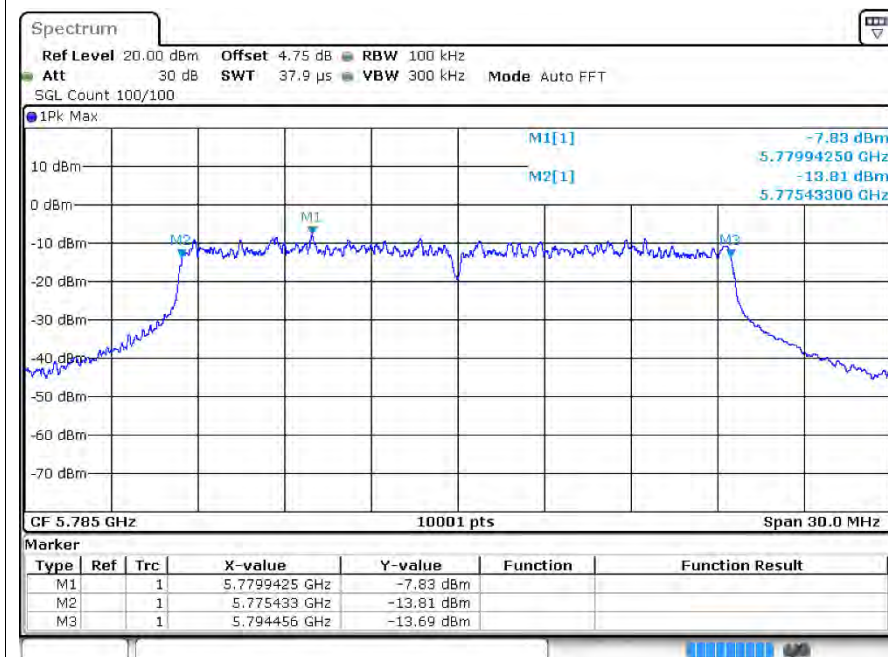


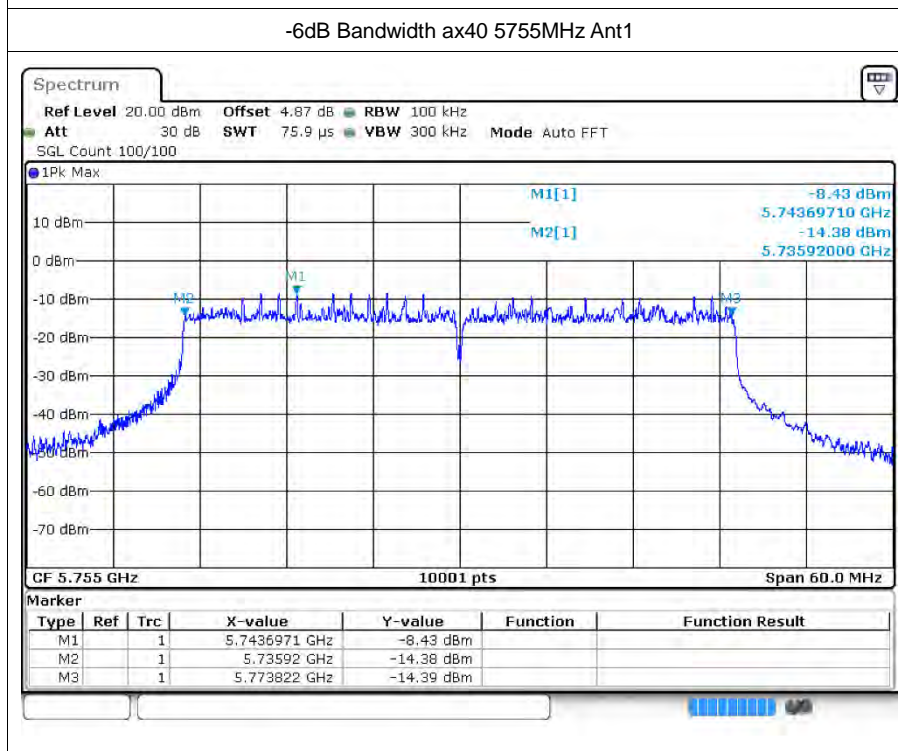
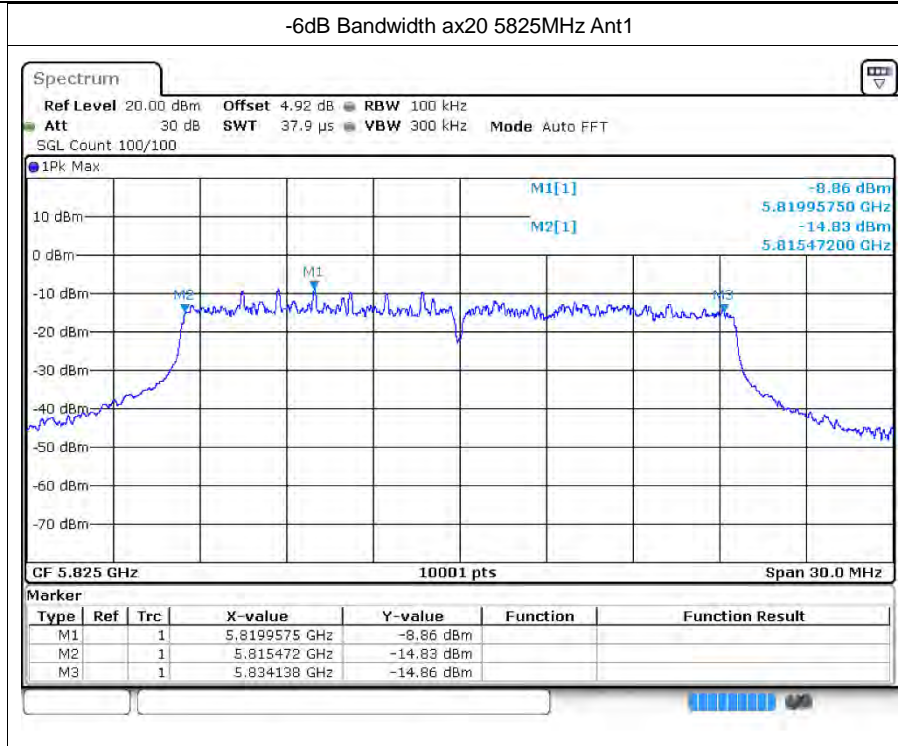


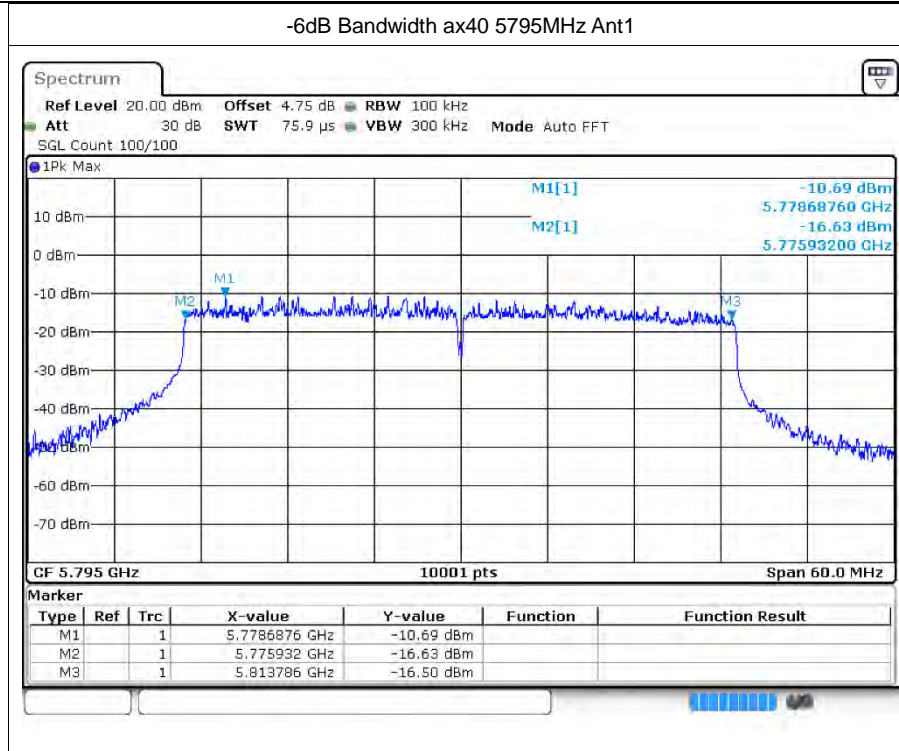
-6dB Bandwidth ax20 5745MHz Ant1



-6dB Bandwidth ax20 5785MHz Ant1











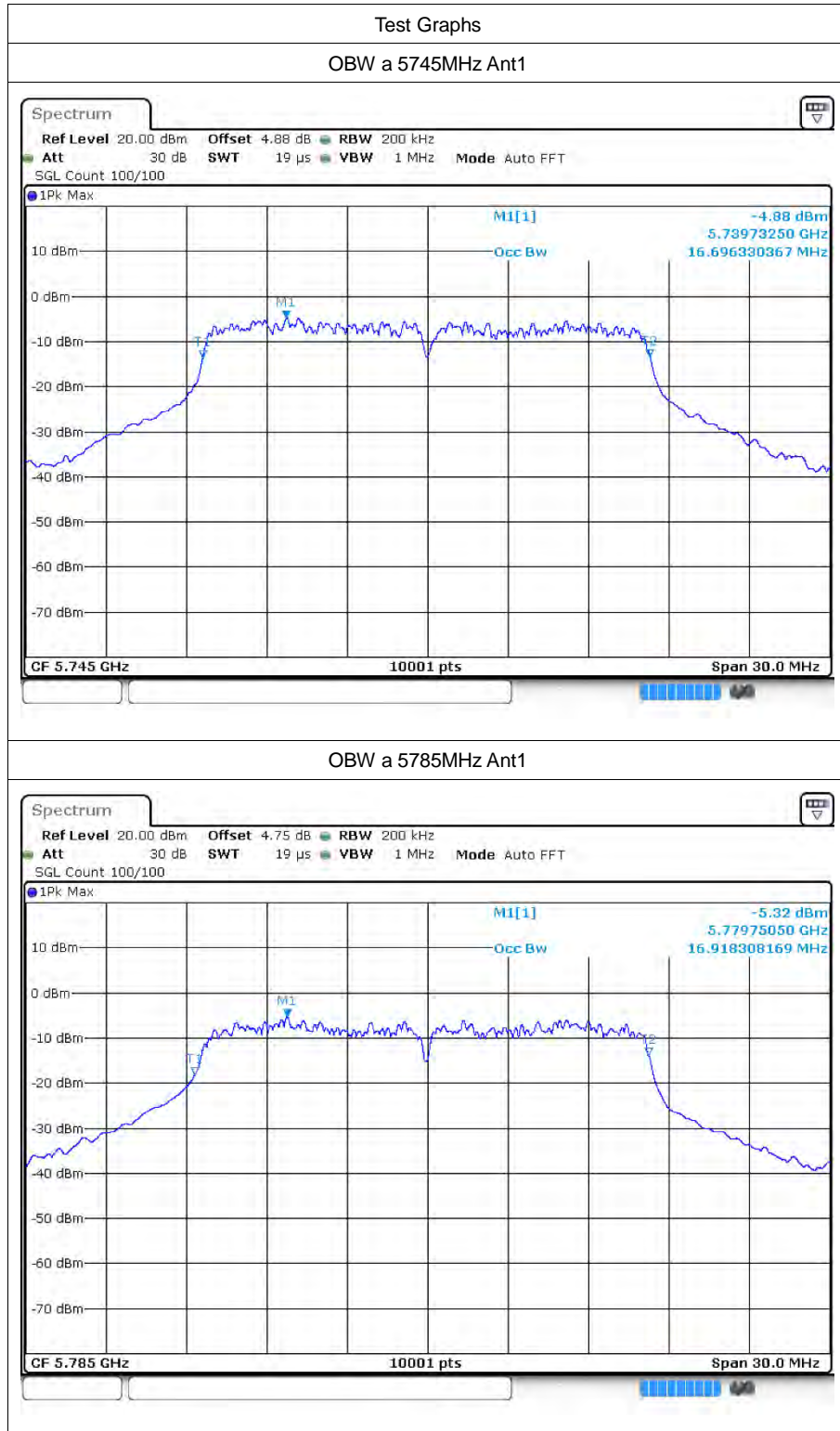
## 4 Occupied Channel Bandwidth

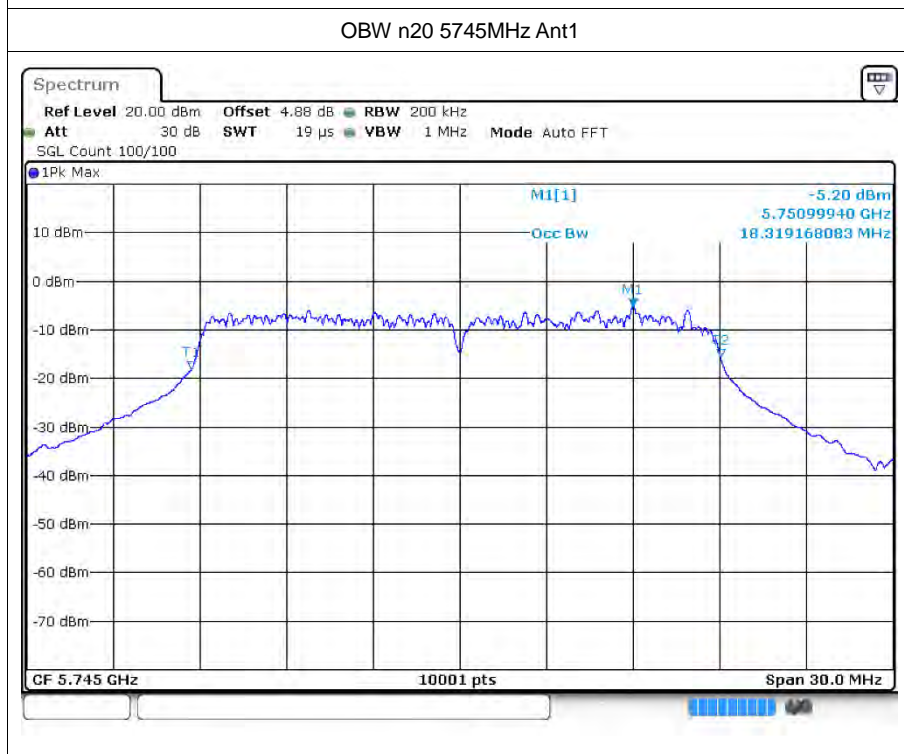
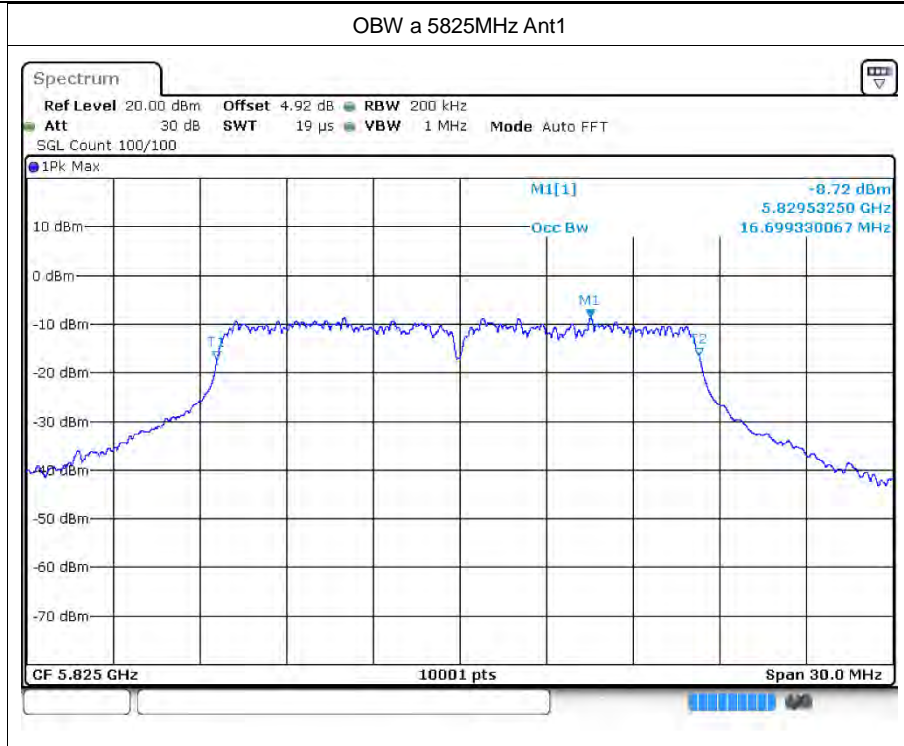
### 4.1 Test Result

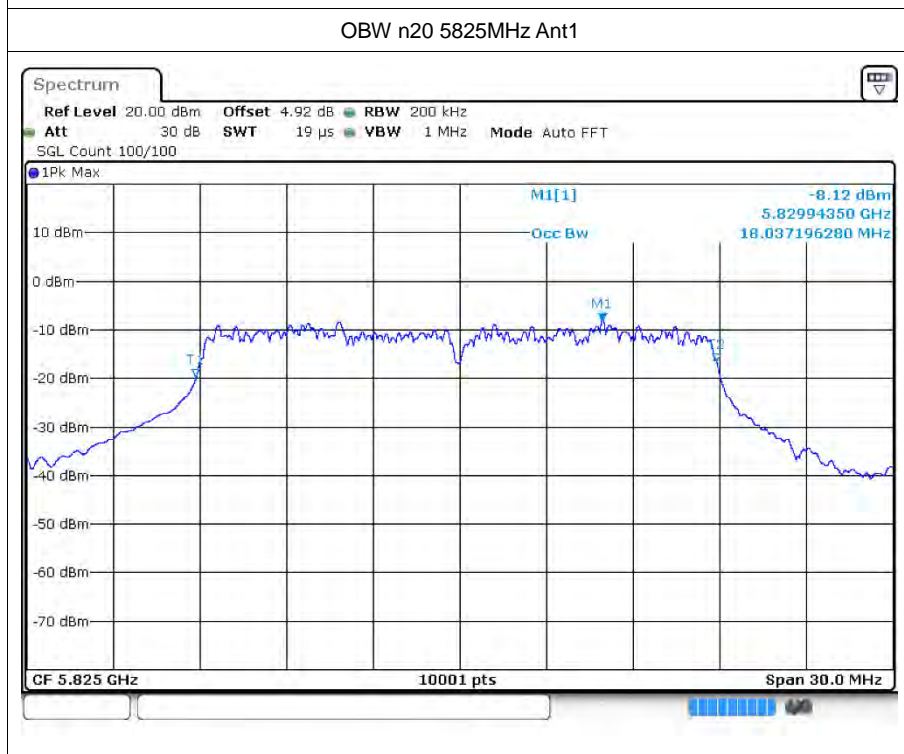
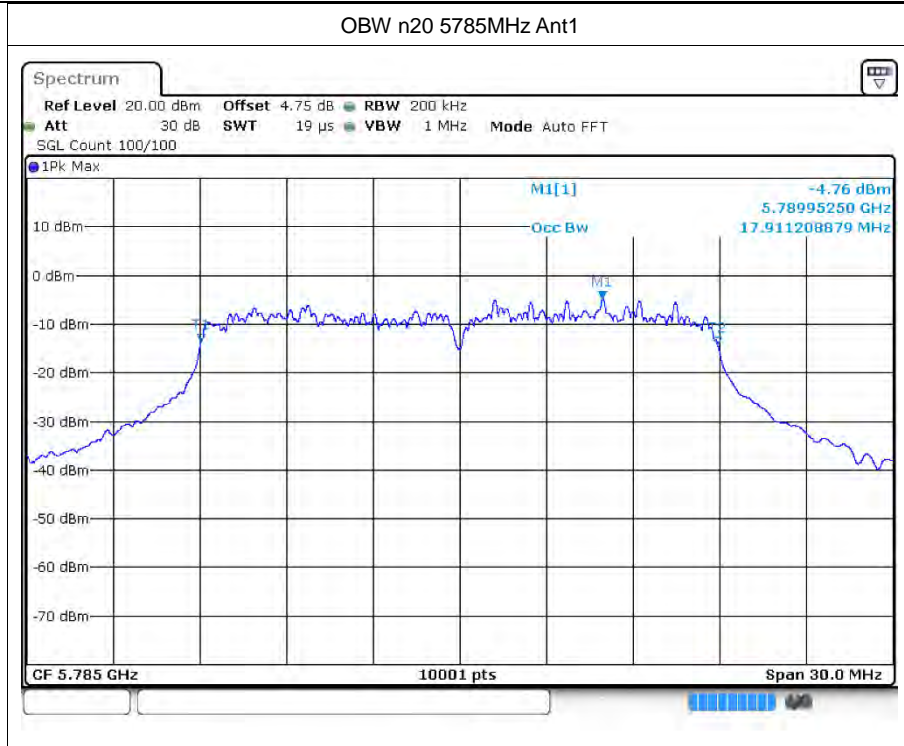
Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5745	Ant1	16.696
a	5785	Ant1	16.918
a	5825	Ant1	16.699
n20	5745	Ant1	18.319
n20	5785	Ant1	17.911
n20	5825	Ant1	18.037
n40	5755	Ant1	36.656
n40	5795	Ant1	36.554
ac20	5745	Ant1	17.989
ac20	5785	Ant1	18.154
ac20	5825	Ant1	17.965
ac40	5755	Ant1	36.686
ac40	5795	Ant1	36.338
ax20	5745	Ant1	19.012
ax20	5785	Ant1	19.003
ax20	5825	Ant1	19.264
ax40	5755	Ant1	37.964
ax40	5795	Ant1	37.778

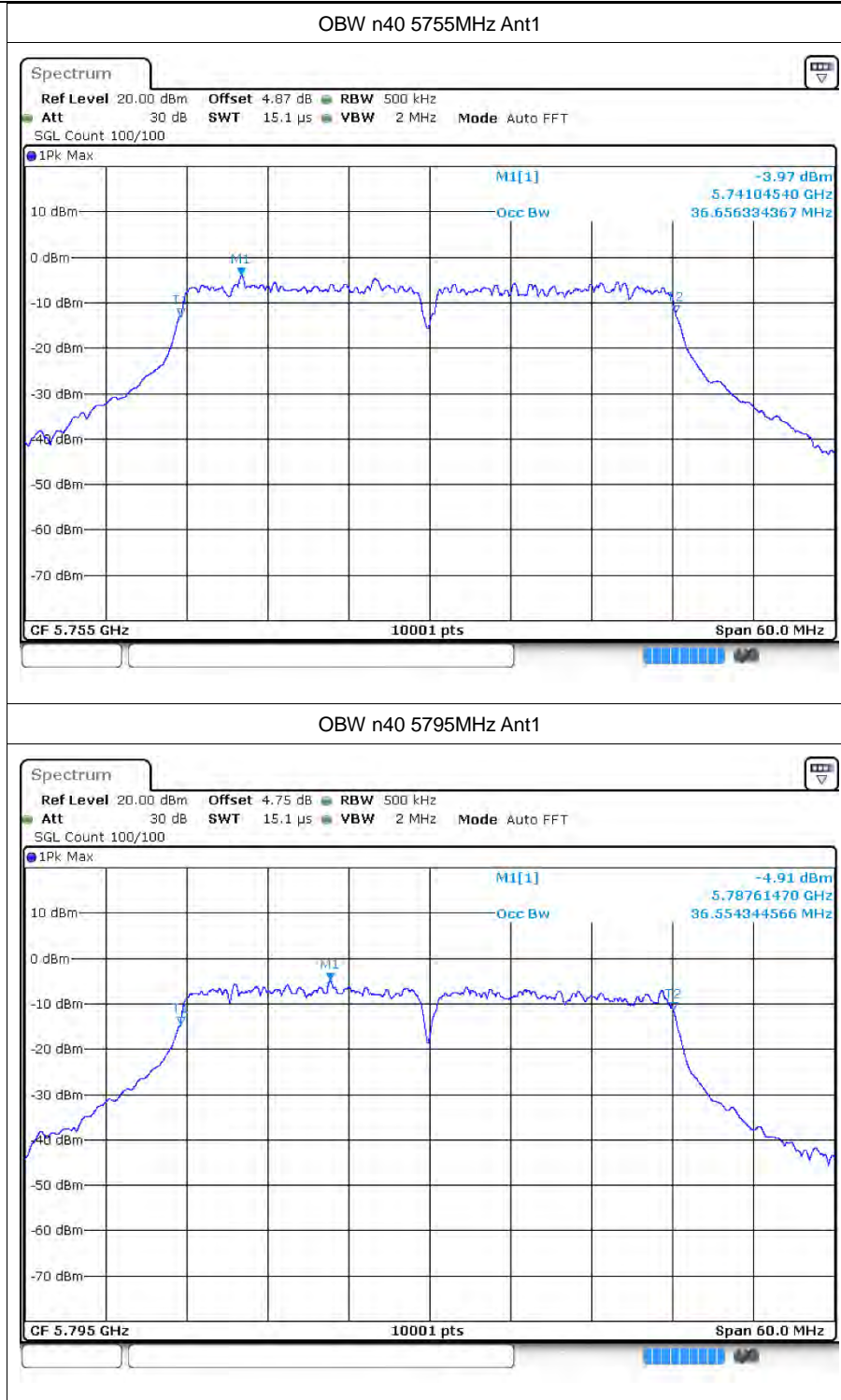


### 4.2 Test Graphs



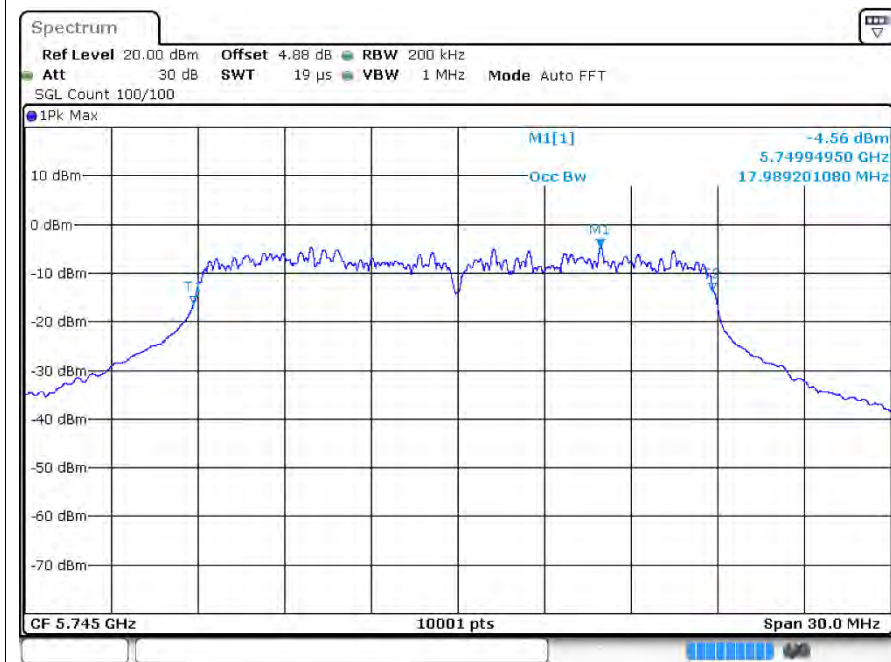




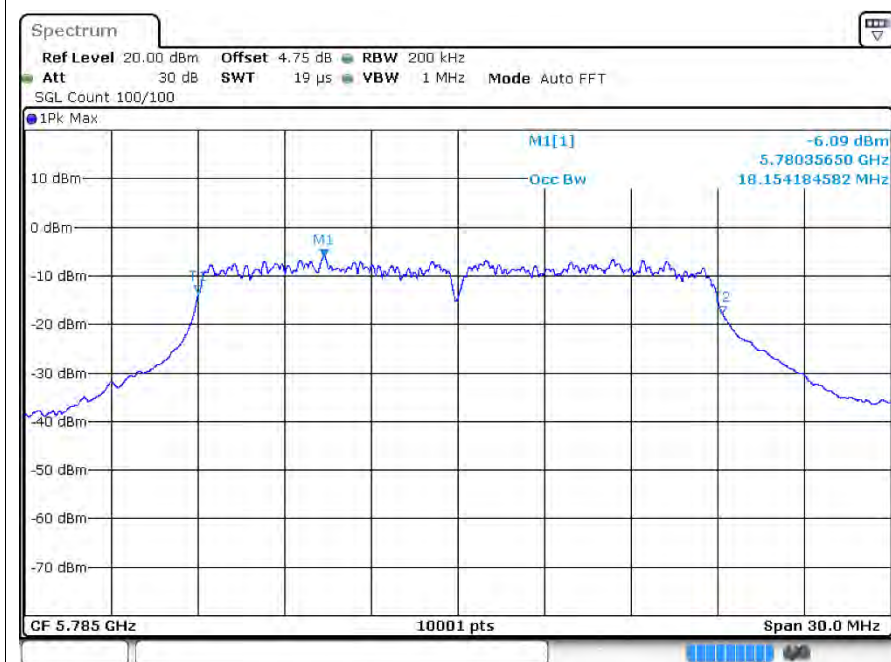




OBW ac20 5745MHz Ant1

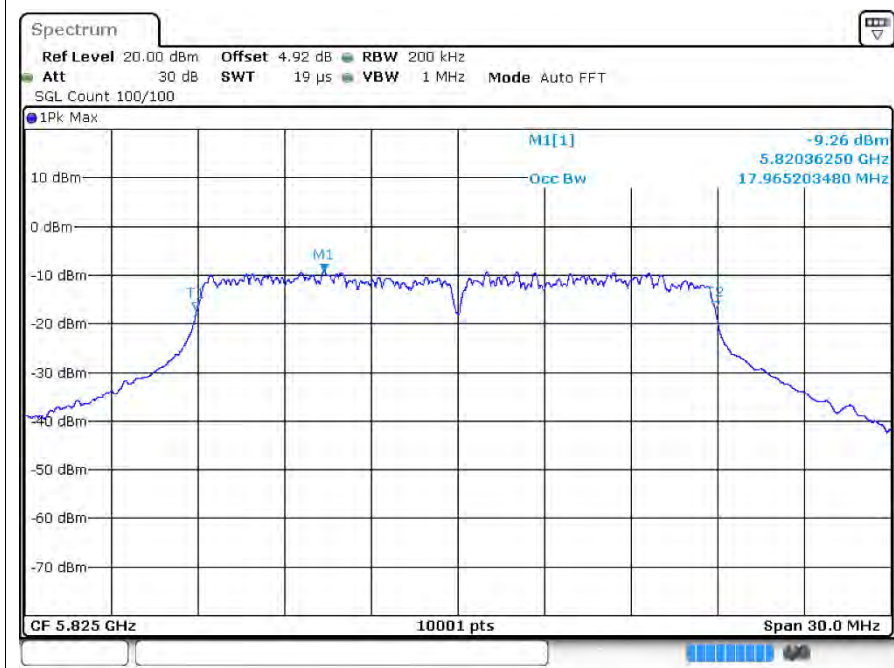


OBW ac20 5785MHz Ant1

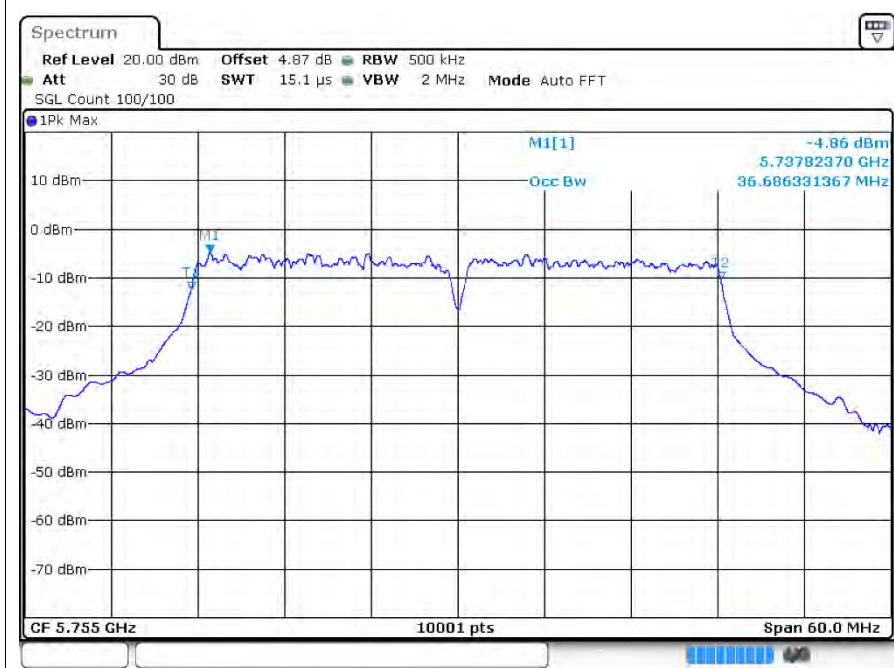


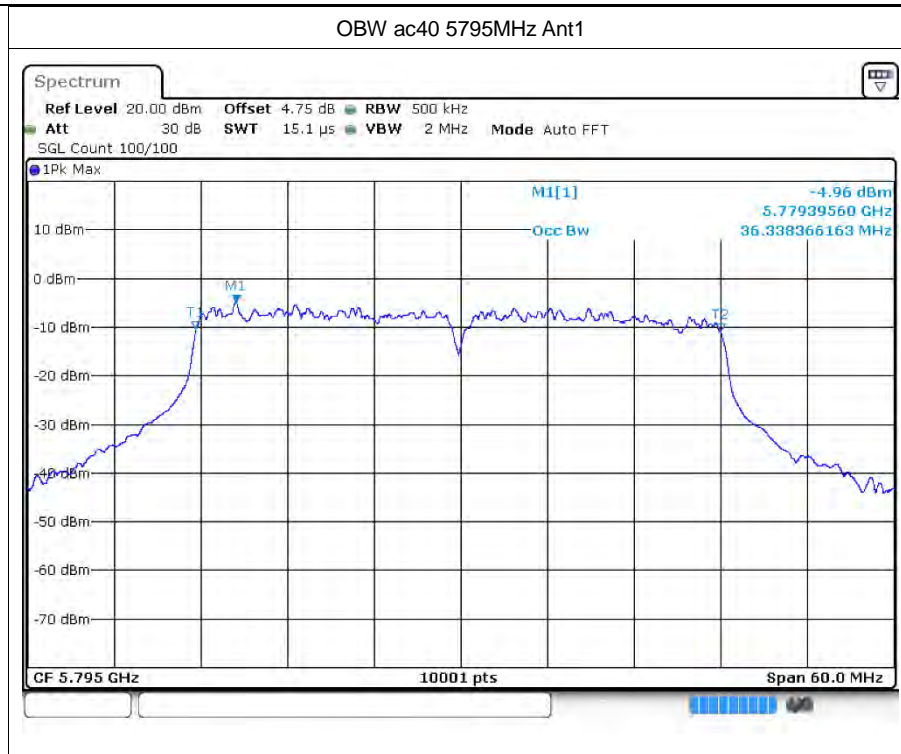


OBW ac20 5825MHz Ant1



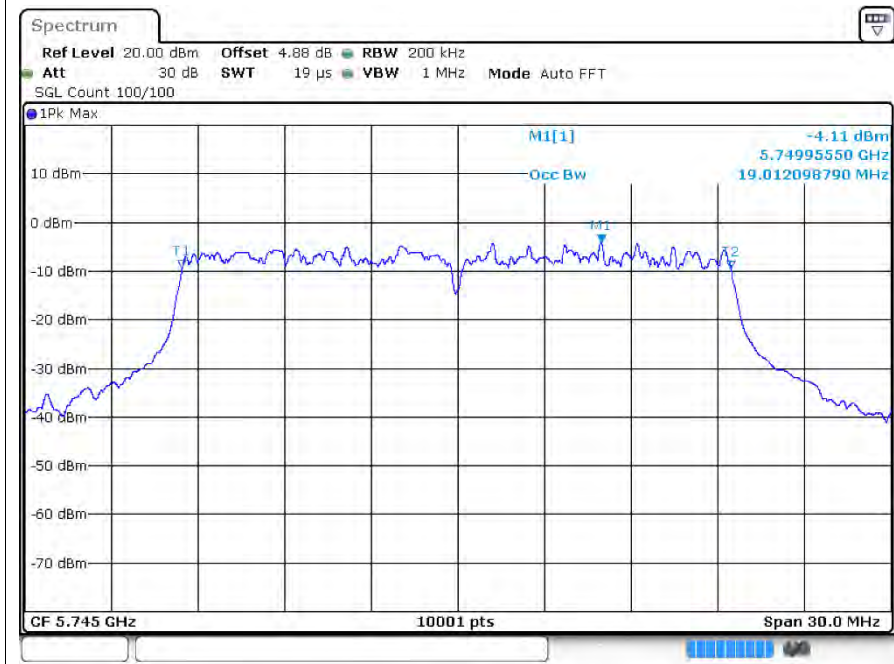
OBW ac40 5755MHz Ant1



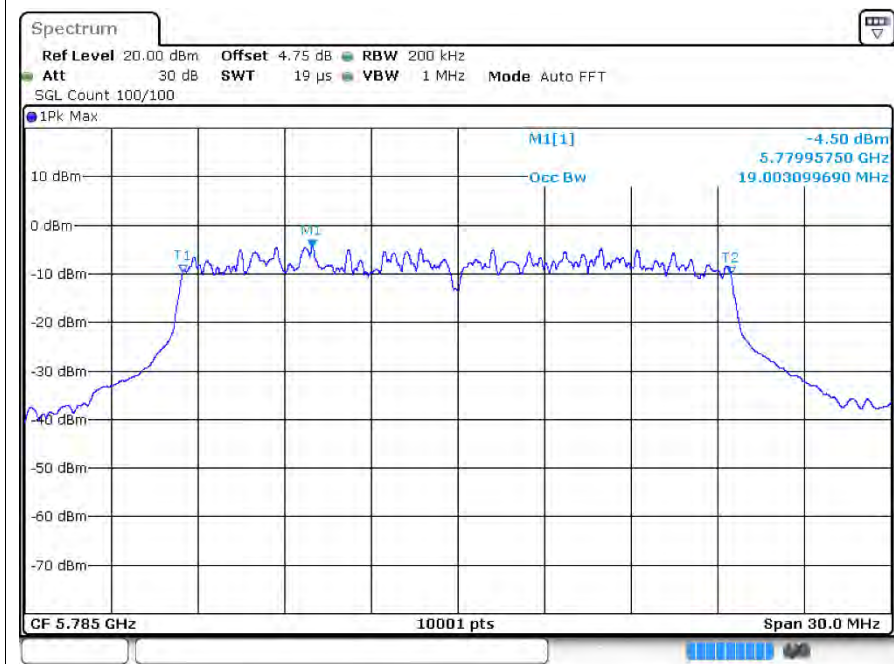




OBW ax20 5745MHz Ant1

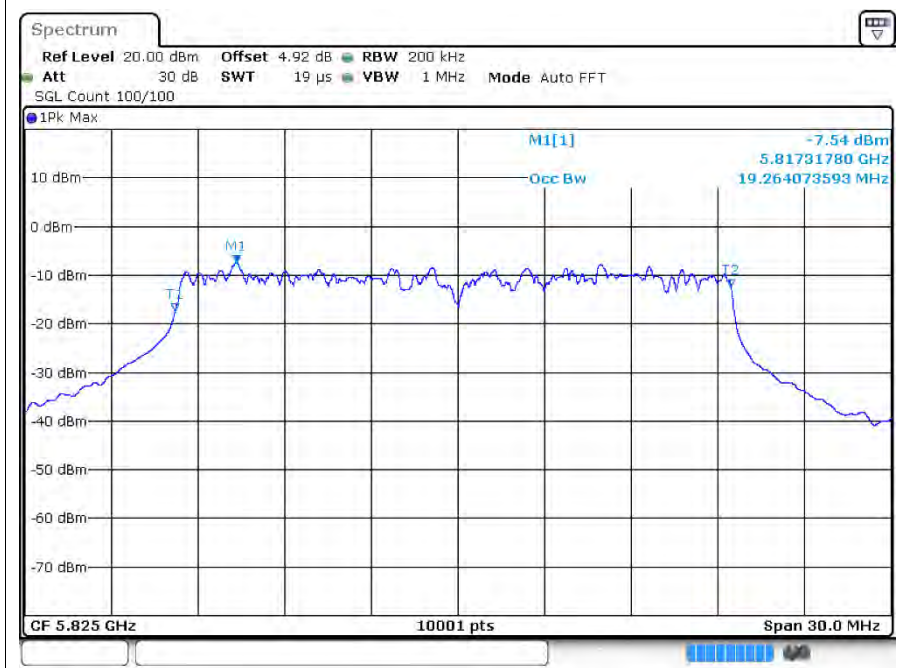


OBW ax20 5785MHz Ant1

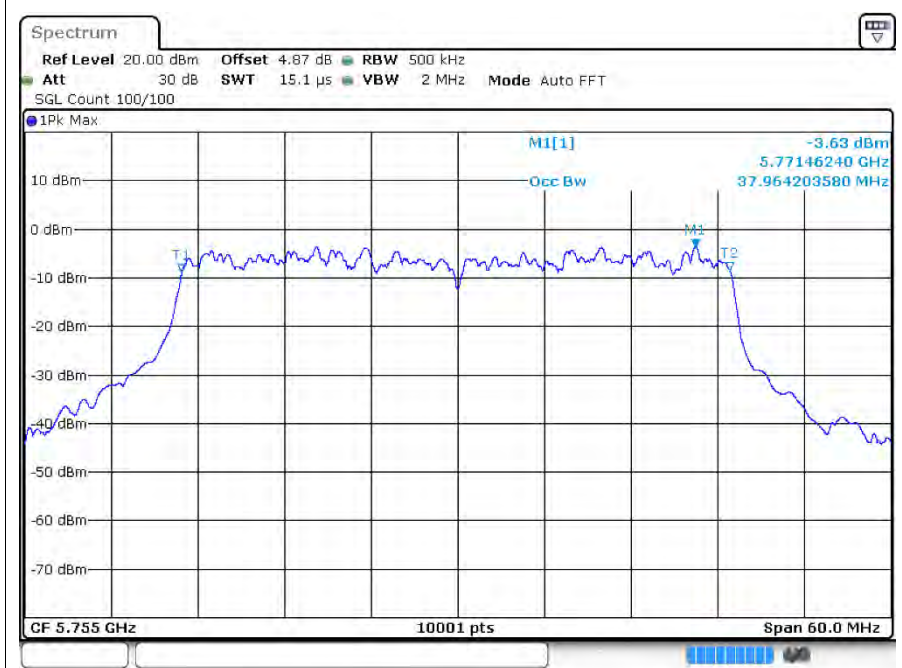


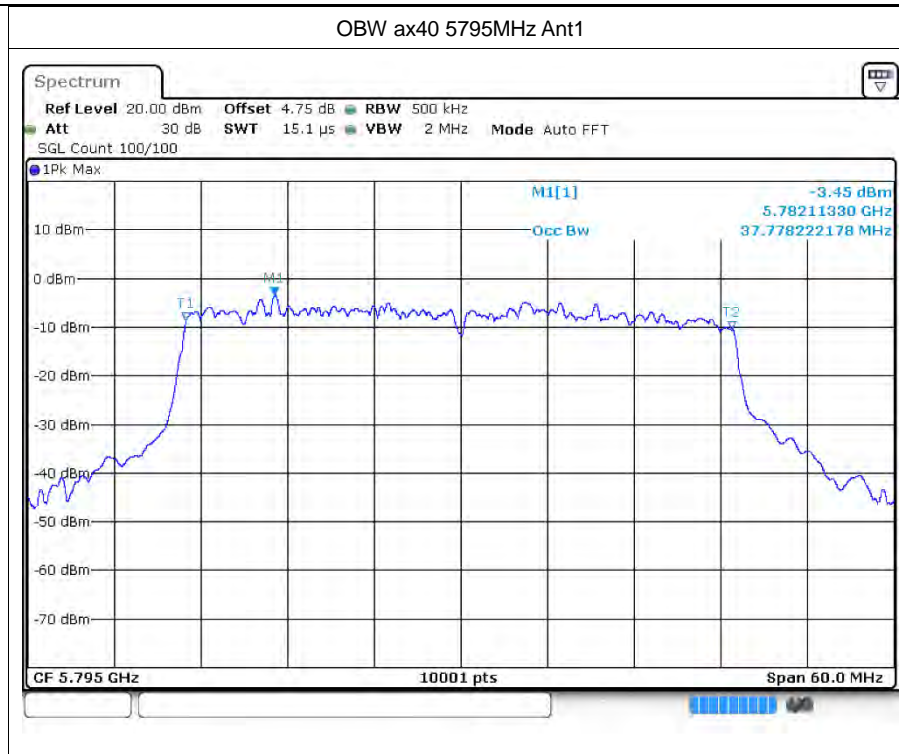


OBW ax20 5825MHz Ant1



OBW ax40 5755MHz Ant1





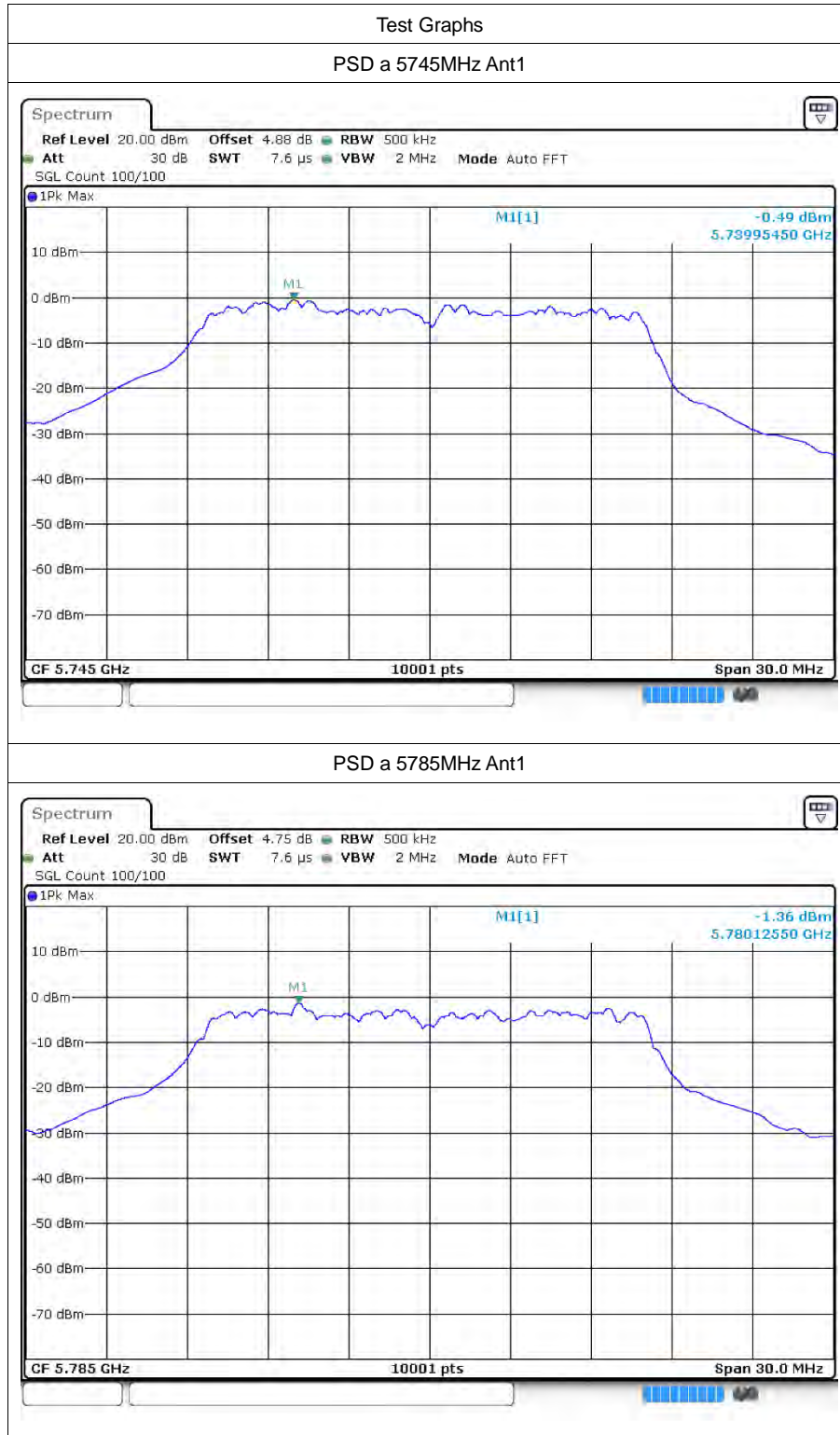


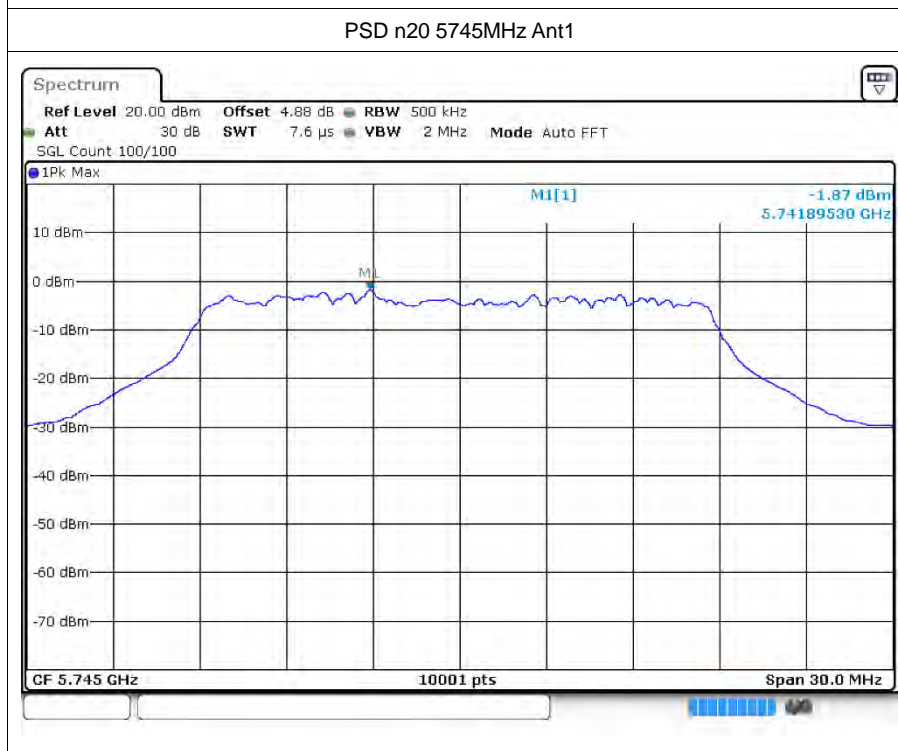
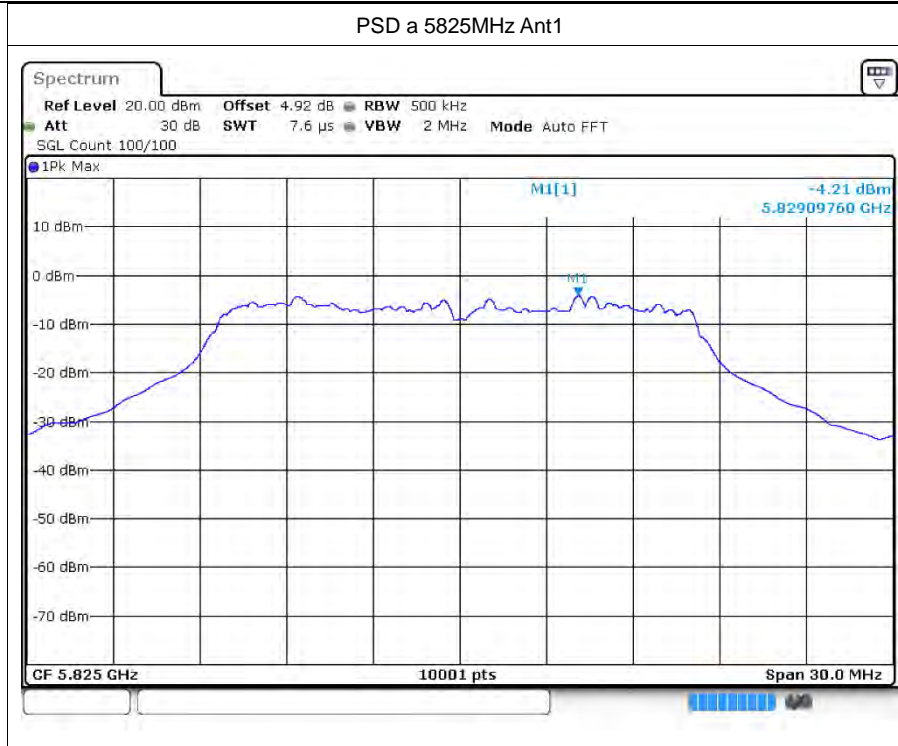
## 5 Maximum Power Spectral Density Level

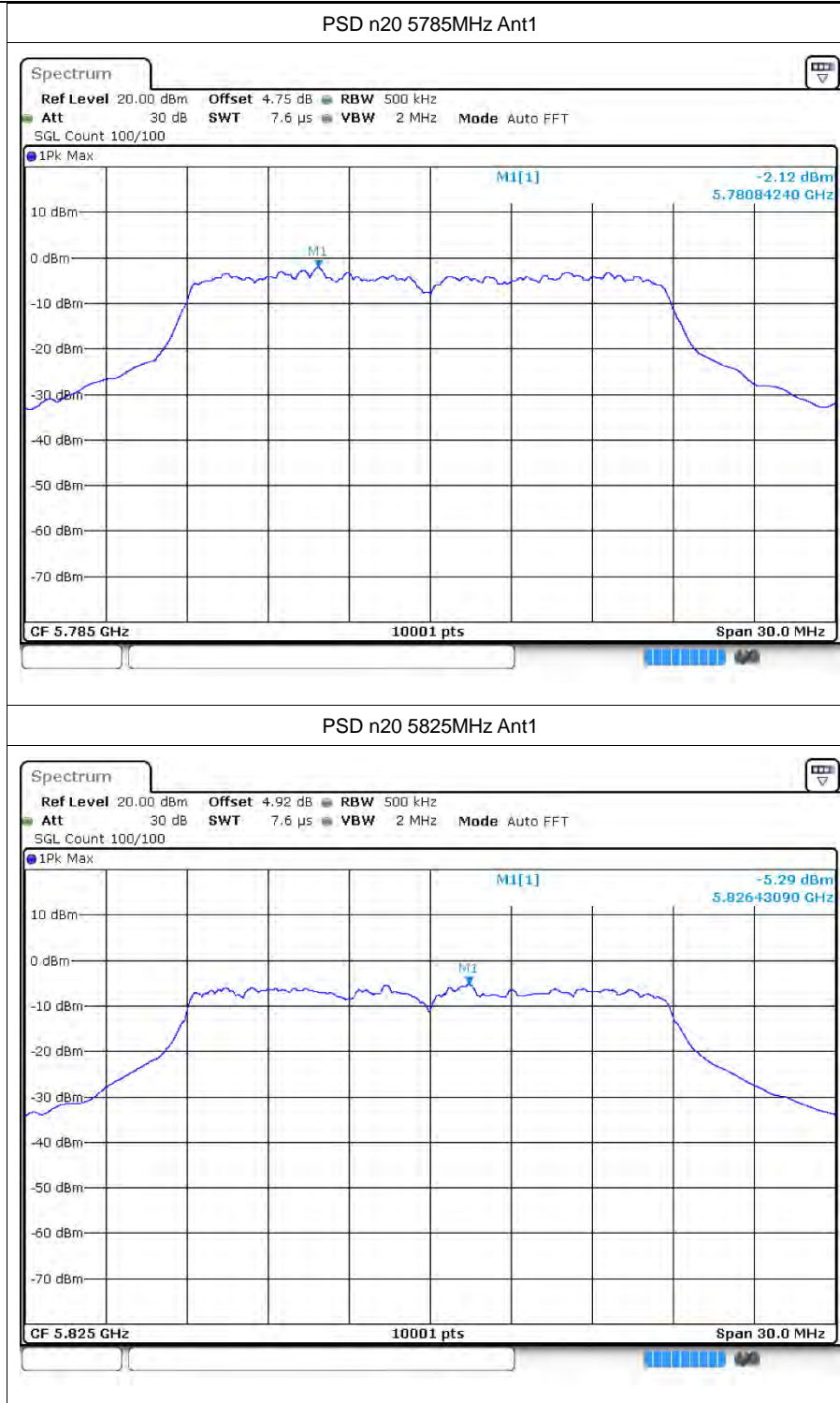
### 5.1 Test Result

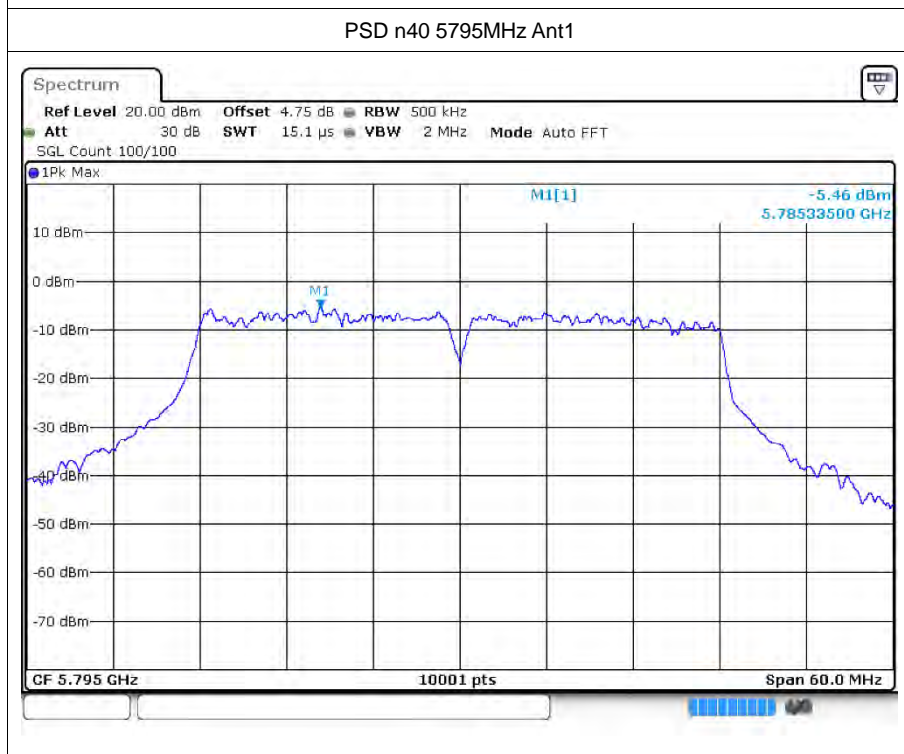
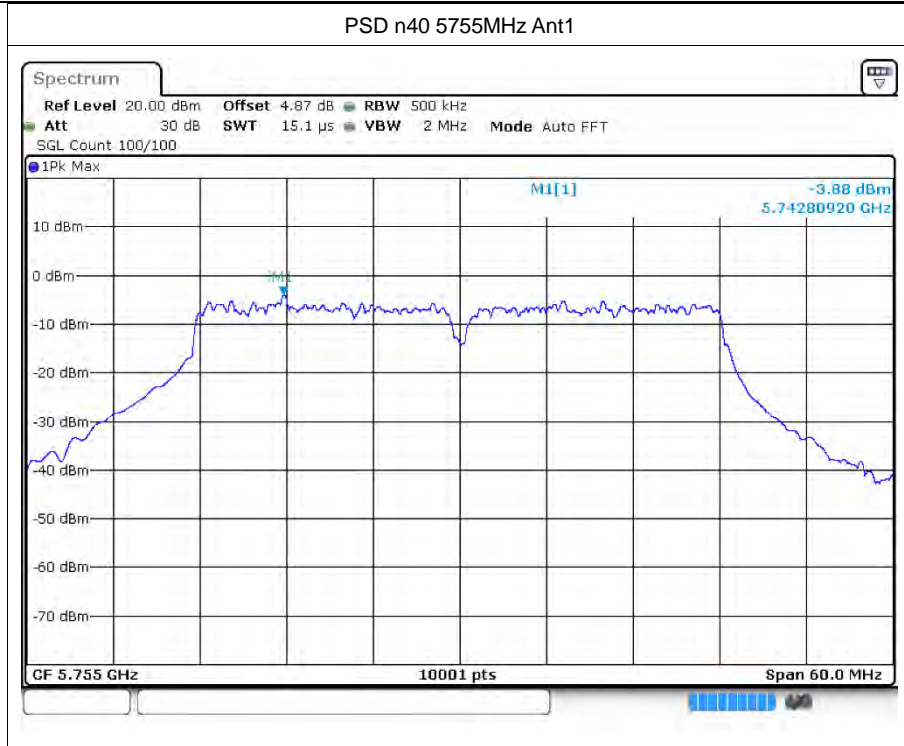
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	-0.49	0.25	-0.49	30	Pass
a	5785	Ant1	-1.36	0.33	-1.36	30	Pass
a	5825	Ant1	-4.21	0.31	-4.21	30	Pass
n20	5745	Ant1	-1.87	0.3	-1.87	30	Pass
n20	5785	Ant1	-2.12	0.25	-2.12	30	Pass
n20	5825	Ant1	-5.29	0.22	-5.29	30	Pass
n40	5755	Ant1	-3.88	0.48	-3.88	30	Pass
n40	5795	Ant1	-5.46	0.51	-5.46	30	Pass
ac20	5745	Ant1	-1.47	0.34	-1.47	30	Pass
ac20	5785	Ant1	-2.68	0.22	-2.68	30	Pass
ac20	5825	Ant1	-5.07	0.25	-5.07	30	Pass
ac40	5755	Ant1	-4.5	0.5	-4.5	30	Pass
ac40	5795	Ant1	-5.17	0.51	-5.17	30	Pass
ax20	5745	Ant1	0.49	0.34	0.49	30	Pass
ax20	5785	Ant1	-1.3	0.36	-1.3	30	Pass
ax20	5825	Ant1	-4.19	0.28	-4.19	30	Pass
ax40	5755	Ant1	-2.58	0.67	-2.58	30	Pass
ax40	5795	Ant1	-2.64	0.63	-2.64	30	Pass

## 5.2 Test Graphs

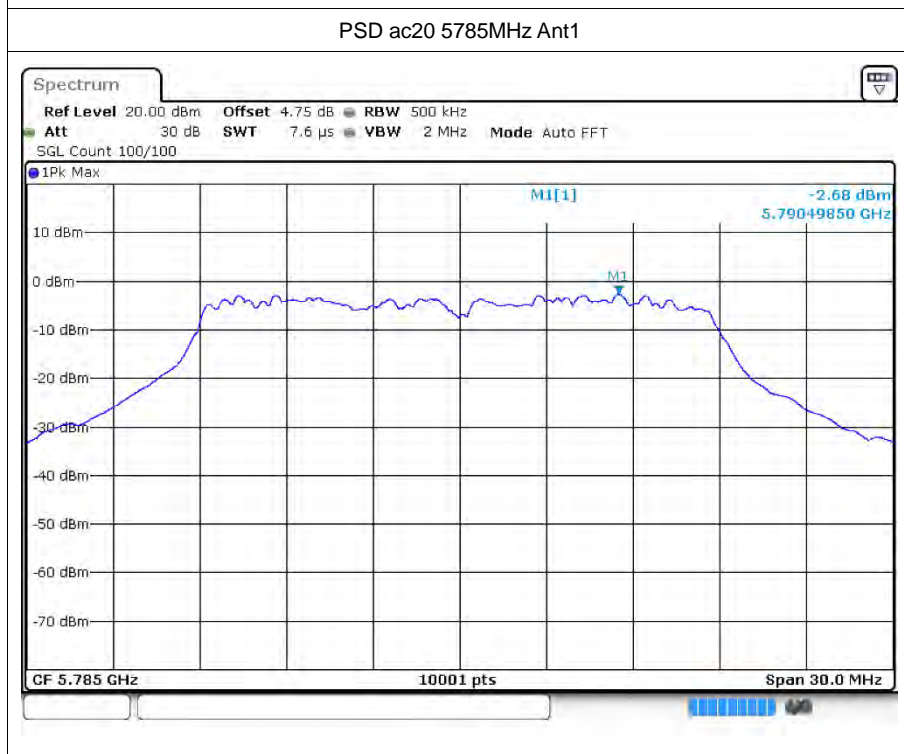
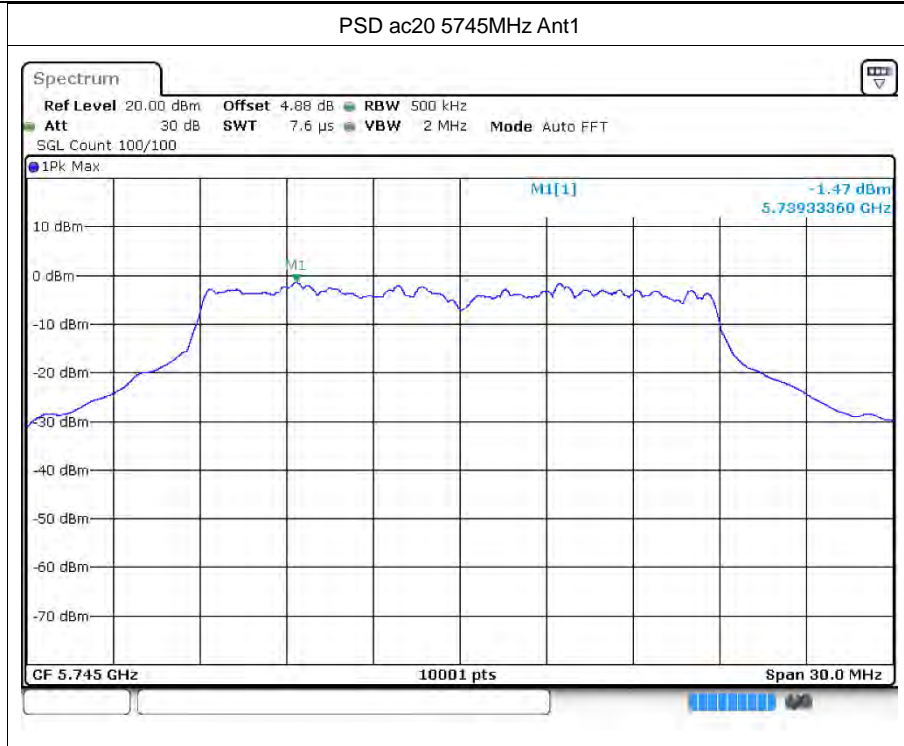




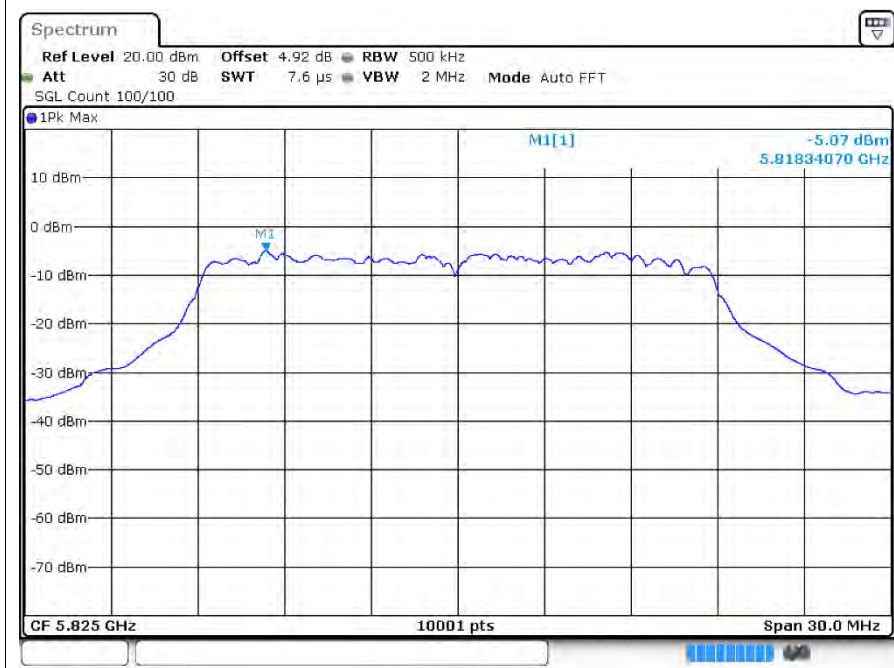




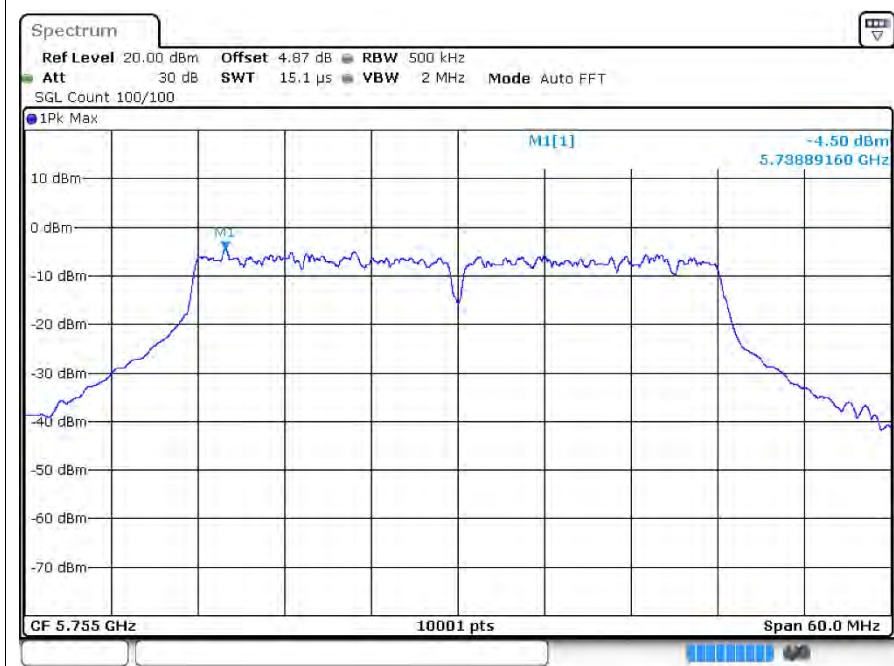


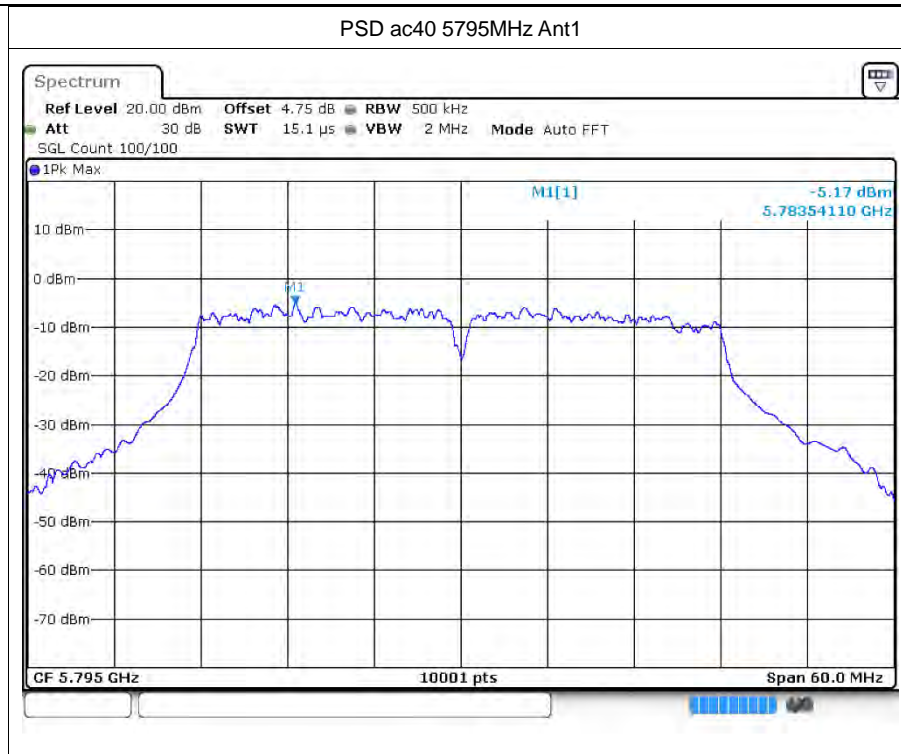


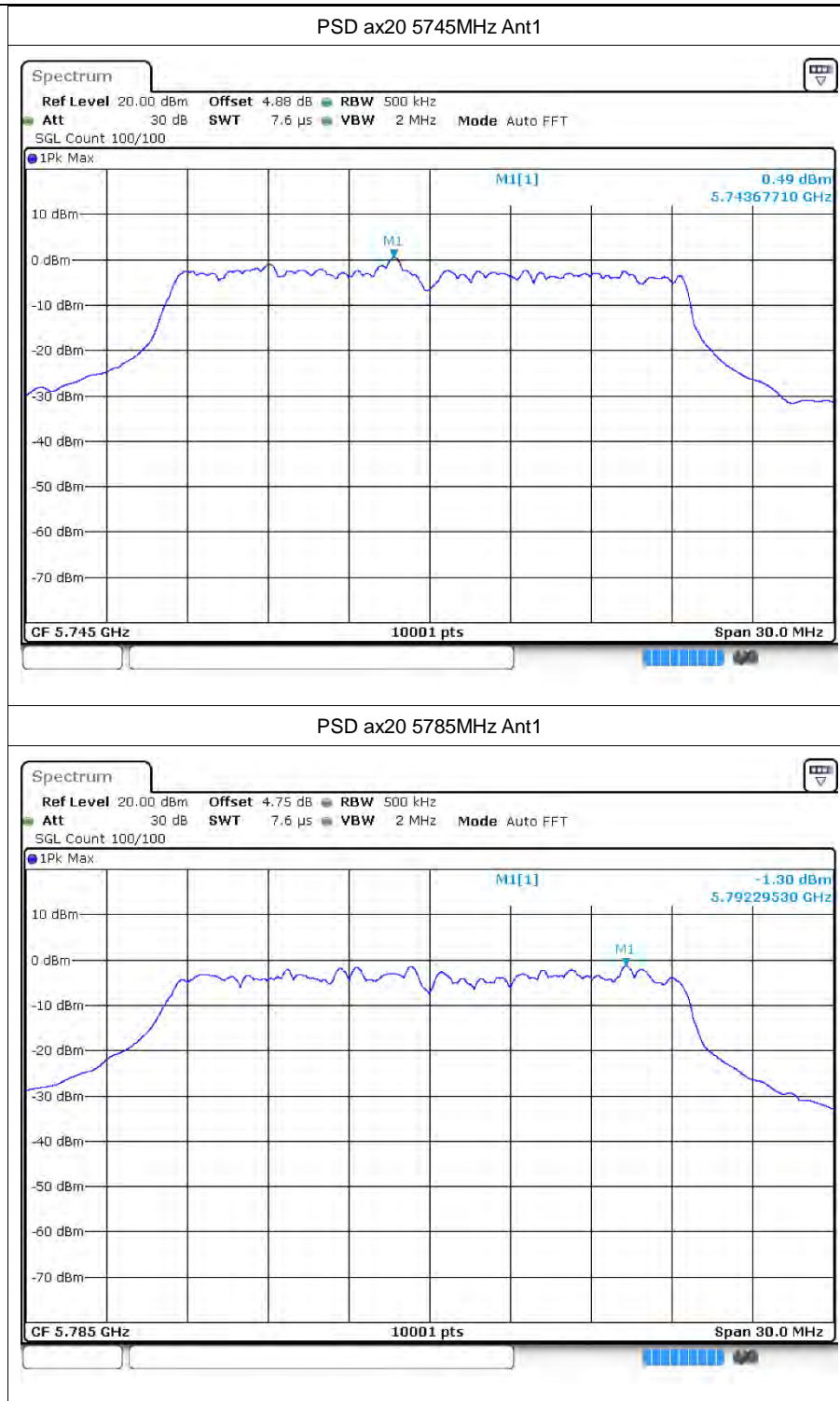
PSD ac20 5825MHz Ant1

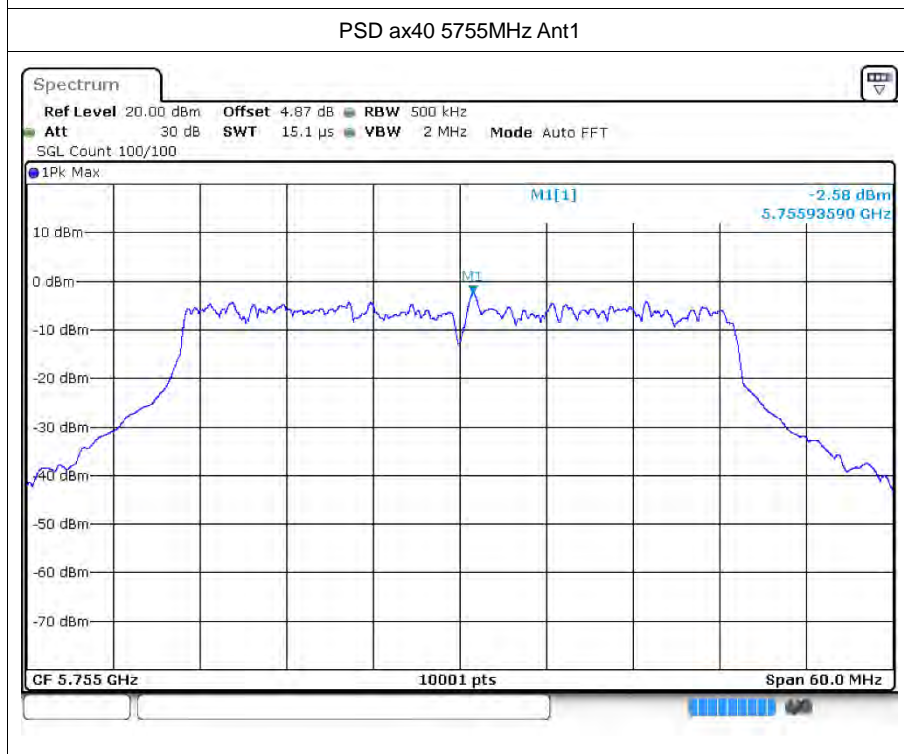
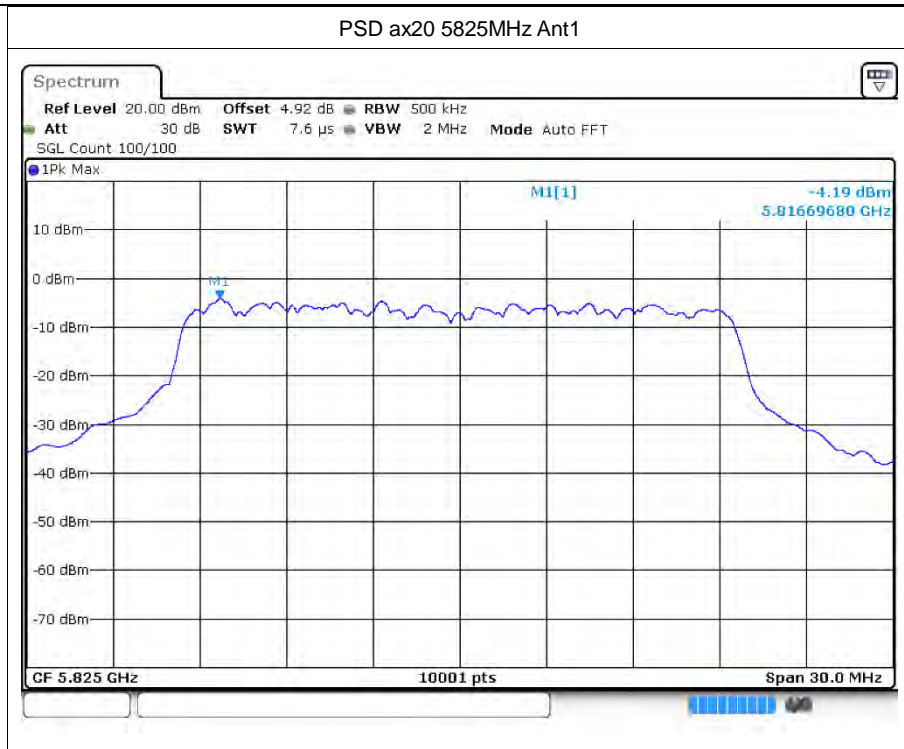


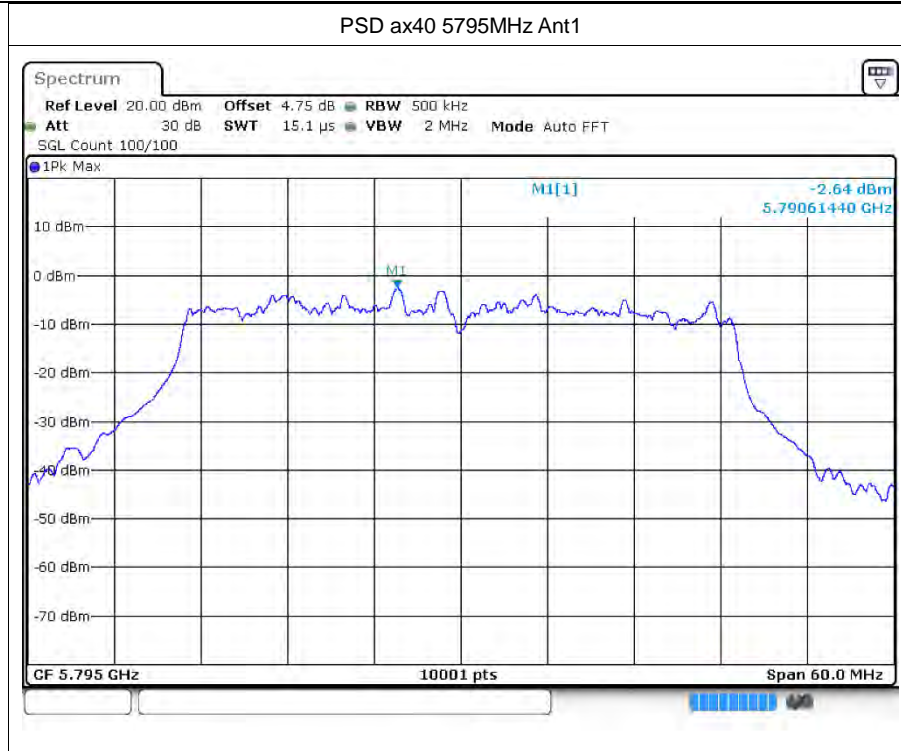
PSD ac40 5755MHz Ant1













## 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	5744.96	-40000	-6.96	25	Pass
20C 120V	a	5745	Ant1	5744.94	-60000	-10.44	25	Pass
20C 138V	a	5745	Ant1	5744.94	-60000	-10.44	25	Pass
-20C 120V	a	5745	Ant1	5744.96	-40000	-6.96	25	Pass
-10C 120V	a	5745	Ant1	5744.94	-60000	-10.44	25	Pass
0C 120V	a	5745	Ant1	5744.92	-80000	-13.93	25	Pass
10C 120V	a	5745	Ant1	5744.96	-40000	-6.96	25	Pass
30C 120V	a	5745	Ant1	5744.94	-60000	-10.44	25	Pass
40C 120V	a	5745	Ant1	5744.94	-60000	-10.44	25	Pass
50C 120V	a	5745	Ant1	5744.94	-60000	-10.44	25	Pass
20C 102V	a	5785	Ant1	5784.94	-60000	-10.37	25	Pass
20C 120V	a	5785	Ant1	5784.94	-60000	-10.37	25	Pass
20C 138V	a	5785	Ant1	5784.96	-40000	-6.91	25	Pass
-20C 120V	a	5785	Ant1	5784.94	-60000	-10.37	25	Pass
-10C 120V	a	5785	Ant1	5784.94	-60000	-10.37	25	Pass
0C 120V	a	5785	Ant1	5784.94	-60000	-10.37	25	Pass
10C 120V	a	5785	Ant1	5784.94	-60000	-10.37	25	Pass
30C 120V	a	5785	Ant1	5784.96	-40000	-6.91	25	Pass
40C 120V	a	5785	Ant1	5784.94	-60000	-10.37	25	Pass
50C 120V	a	5785	Ant1	5784.94	-60000	-10.37	25	Pass
20C 102V	a	5825	Ant1	5824.96	-40000	-6.87	25	Pass
20C 120V	a	5825	Ant1	5824.96	-40000	-6.87	25	Pass
20C 138V	a	5825	Ant1	5824.94	-60000	-10.3	25	Pass
-20C 120V	a	5825	Ant1	5824.96	-40000	-6.87	25	Pass
-10C 120V	a	5825	Ant1	5824.94	-60000	-10.3	25	Pass
0C 120V	a	5825	Ant1	5824.96	-40000	-6.87	25	Pass
10C 120V	a	5825	Ant1	5824.96	-40000	-6.87	25	Pass
30C 120V	a	5825	Ant1	5824.94	-60000	-10.3	25	Pass
40C 120V	a	5825	Ant1	5824.96	-40000	-6.87	25	Pass
50C 120V	a	5825	Ant1	5824.94	-60000	-10.3	25	Pass
20C 102V	n20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
20C 120V	n20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
20C 138V	n20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
-20C 120V	n20	5745	Ant1	5744.94	-60000	-10.44	25	Pass



-10C 120V	n20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
0C 120V	n20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
10C 120V	n20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
30C 120V	n20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
40C 120V	n20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
50C 120V	n20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
20C 102V	n20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
20C 120V	n20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
20C 138V	n20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
-20C 120V	n20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
-10C 120V	n20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
0C 120V	n20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
10C 120V	n20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
30C 120V	n20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
40C 120V	n20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
50C 120V	n20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
20C 102V	n20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
20C 120V	n20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
20C 138V	n20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
-20C 120V	n20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
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0C 120V	n20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
10C 120V	n20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
30C 120V	n20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
40C 120V	n20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
50C 120V	n20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
20C 102V	n40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
20C 120V	n40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
20C 138V	n40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
-20C 120V	n40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
-10C 120V	n40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
0C 120V	n40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
10C 120V	n40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
30C 120V	n40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
40C 120V	n40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
50C 120V	n40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
20C 102V	n40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
20C 120V	n40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
20C 138V	n40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
-20C 120V	n40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
-10C 120V	n40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
0C 120V	n40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
10C 120V	n40	5795	Ant1	5794.96	-40000	-6.9	25	Pass





30C 120V	n40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
40C 120V	n40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
50C 120V	n40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
20C 102V	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
20C 120V	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
20C 138V	ac20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
-20C 120V	ac20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
-10C 120V	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
0C 120V	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
10C 120V	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
30C 120V	ac20	5745	Ant1	5744.92	-80000	-13.93	25	Pass
40C 120V	ac20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
50C 120V	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
20C 102V	ac20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
20C 120V	ac20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
20C 138V	ac20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
-20C 120V	ac20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
-10C 120V	ac20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
0C 120V	ac20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
10C 120V	ac20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
30C 120V	ac20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
40C 120V	ac20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
50C 120V	ac20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
20C 102V	ac20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
20C 120V	ac20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
20C 138V	ac20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
-20C 120V	ac20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
-10C 120V	ac20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
0C 120V	ac20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
10C 120V	ac20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
30C 120V	ac20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
40C 120V	ac20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
50C 120V	ac20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
20C 102V	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
20C 120V	ac40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
20C 138V	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
-20C 120V	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
-10C 120V	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
0C 120V	ac40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
10C 120V	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
30C 120V	ac40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
40C 120V	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
50C 120V	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass



20C 102V	ac40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
20C 120V	ac40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
20C 138V	ac40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
-20C 120V	ac40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
-10C 120V	ac40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
0C 120V	ac40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
10C 120V	ac40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
30C 120V	ac40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
40C 120V	ac40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
50C 120V	ac40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
20C 102V	ax20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
20C 120V	ax20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
20C 138V	ax20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
-20C 120V	ax20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
-10C 120V	ax20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
0C 120V	ax20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
10C 120V	ax20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
30C 120V	ax20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
40C 120V	ax20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
50C 120V	ax20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
20C 102V	ax20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
20C 120V	ax20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
20C 138V	ax20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
-20C 120V	ax20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
-10C 120V	ax20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
0C 120V	ax20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
10C 120V	ax20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
30C 120V	ax20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
40C 120V	ax20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
50C 120V	ax20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
20C 102V	ax20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
20C 120V	ax20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
20C 138V	ax20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
-20C 120V	ax20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
-10C 120V	ax20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
0C 120V	ax20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
10C 120V	ax20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
30C 120V	ax20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
40C 120V	ax20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
50C 120V	ax20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
20C 102V	ax40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
20C 120V	ax40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
20C 138V	ax40	5755	Ant1	5754.92	-80000	-13.9	25	Pass



-20C 120V	ax40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
-10C 120V	ax40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
0C 120V	ax40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
10C 120V	ax40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
30C 120V	ax40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
40C 120V	ax40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
50C 120V	ax40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
20C 102V	ax40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
20C 120V	ax40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
20C 138V	ax40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
-20C 120V	ax40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
-10C 120V	ax40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
0C 120V	ax40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
10C 120V	ax40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
30C 120V	ax40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
40C 120V	ax40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
50C 120V	ax40	5795	Ant1	5794.92	-80000	-13.81	25	Pass



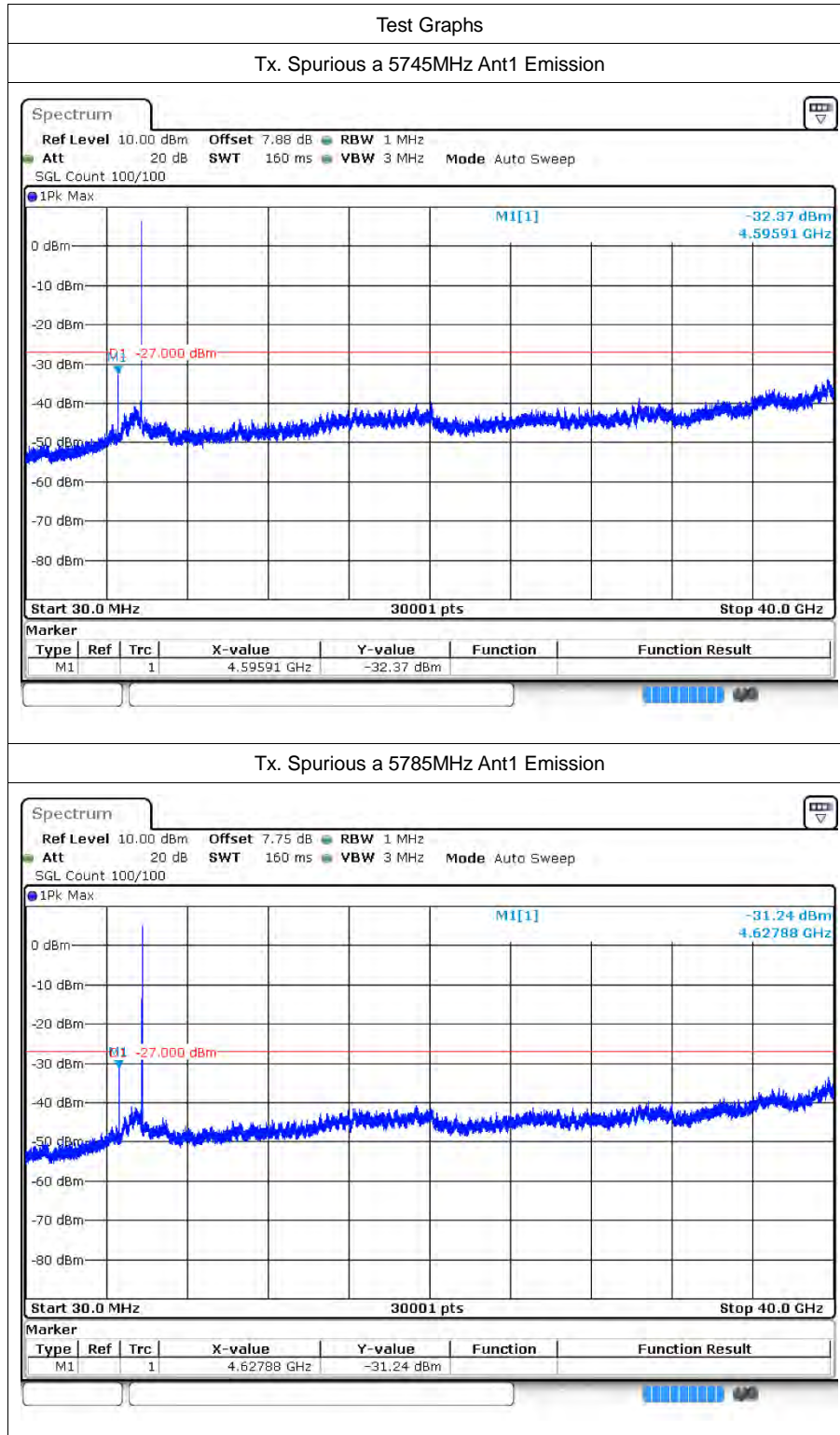
## 7 Conducted RF Spurious Emission

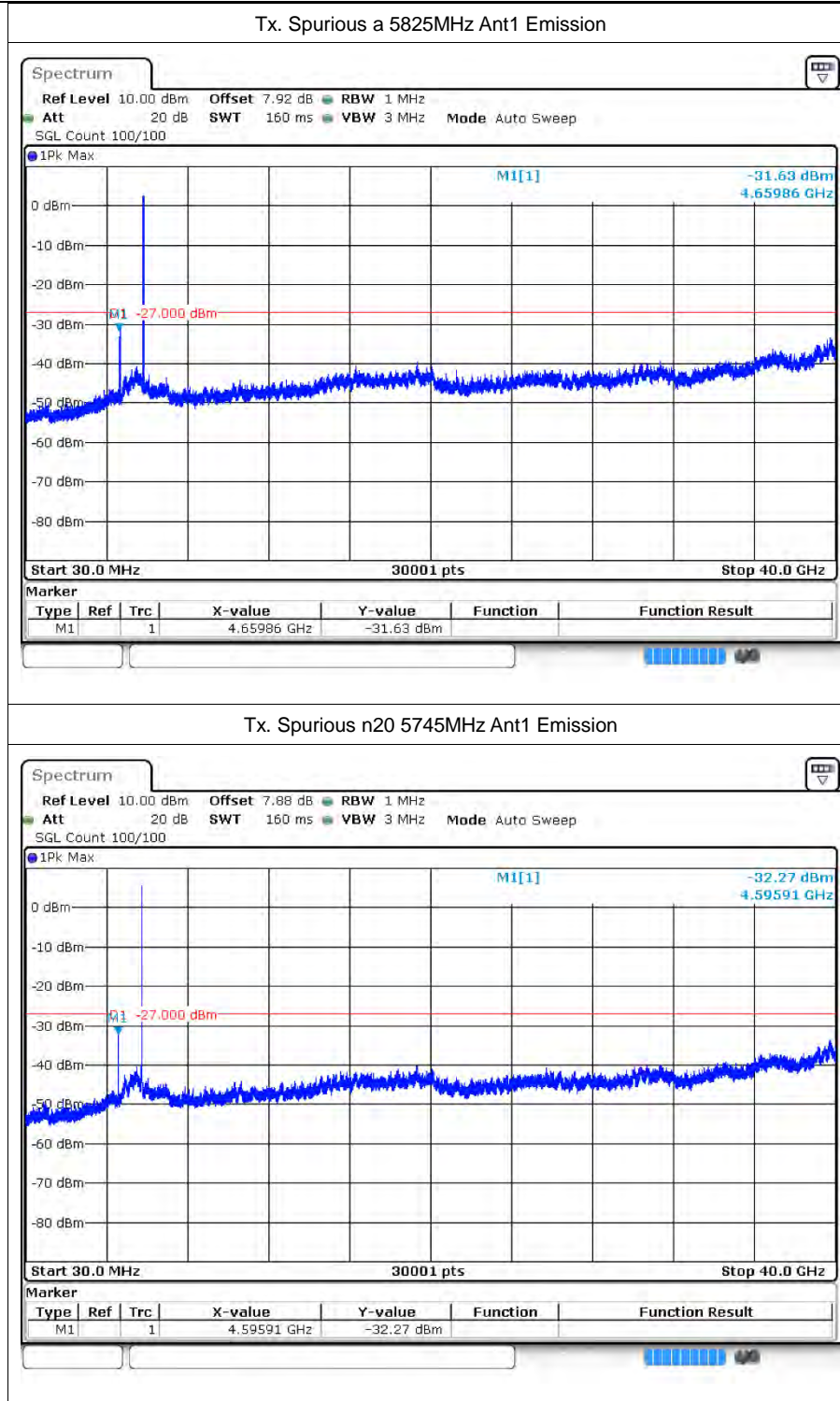
### 7.1 Test Result

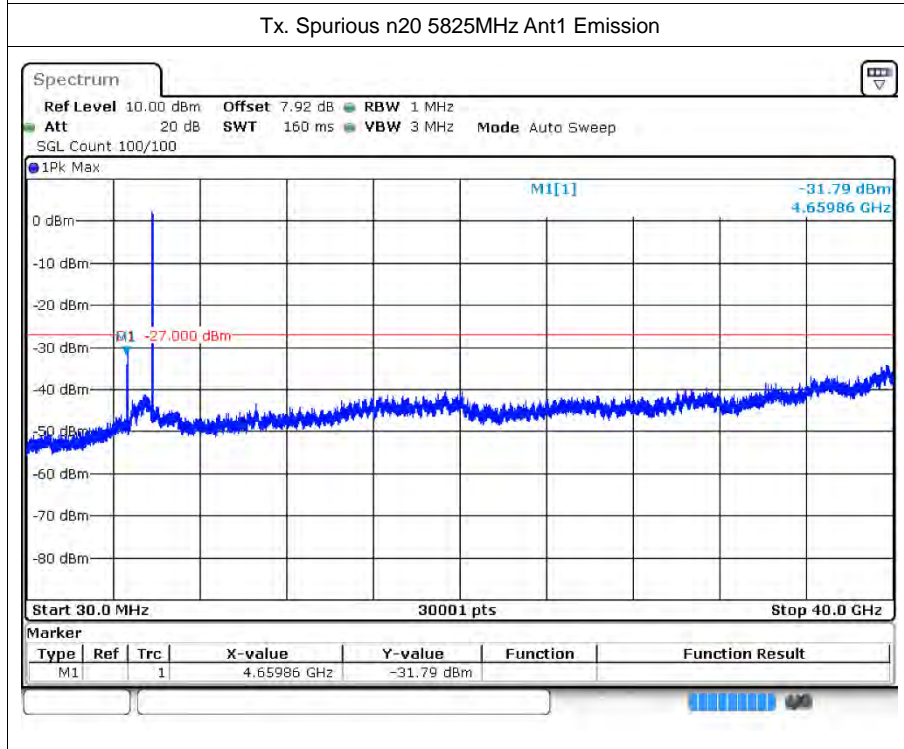
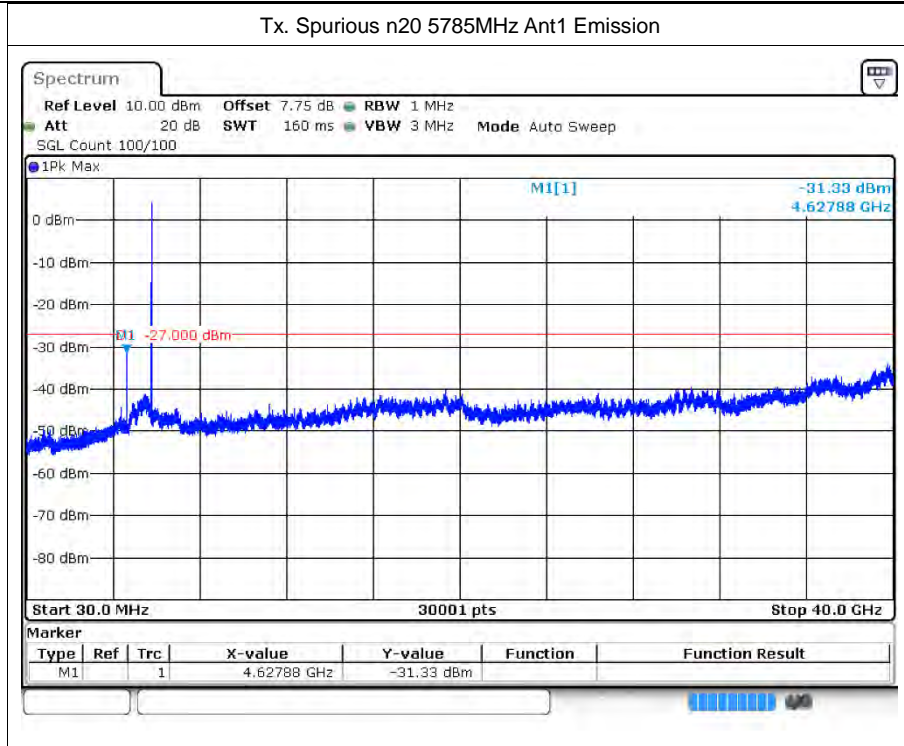
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
a	5745	Ant1	-32.36	-27	Pass
a	5785	Ant1	-31.23	-27	Pass
a	5825	Ant1	-31.63	-27	Pass
n20	5745	Ant1	-32.27	-27	Pass
n20	5785	Ant1	-31.32	-27	Pass
n20	5825	Ant1	-31.78	-27	Pass
n40	5755	Ant1	-31.36	-27	Pass
n40	5795	Ant1	-30.84	-27	Pass
ac20	5745	Ant1	-32.37	-27	Pass
ac20	5785	Ant1	-31.67	-27	Pass
ac20	5825	Ant1	-31.81	-27	Pass
ac40	5755	Ant1	-31.19	-27	Pass
ac40	5795	Ant1	-30.59	-27	Pass
ax20	5745	Ant1	-32.09	-27	Pass
ax20	5785	Ant1	-31.32	-27	Pass
ax20	5825	Ant1	-31.44	-27	Pass
ax40	5755	Ant1	-31.53	-27	Pass
ax40	5795	Ant1	-30.79	-27	Pass

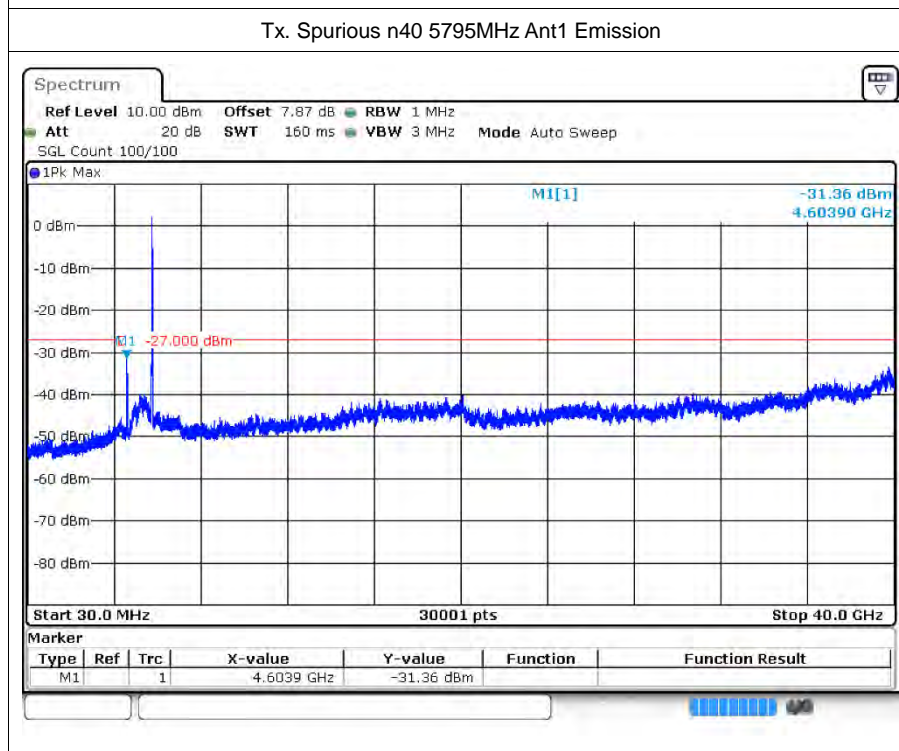
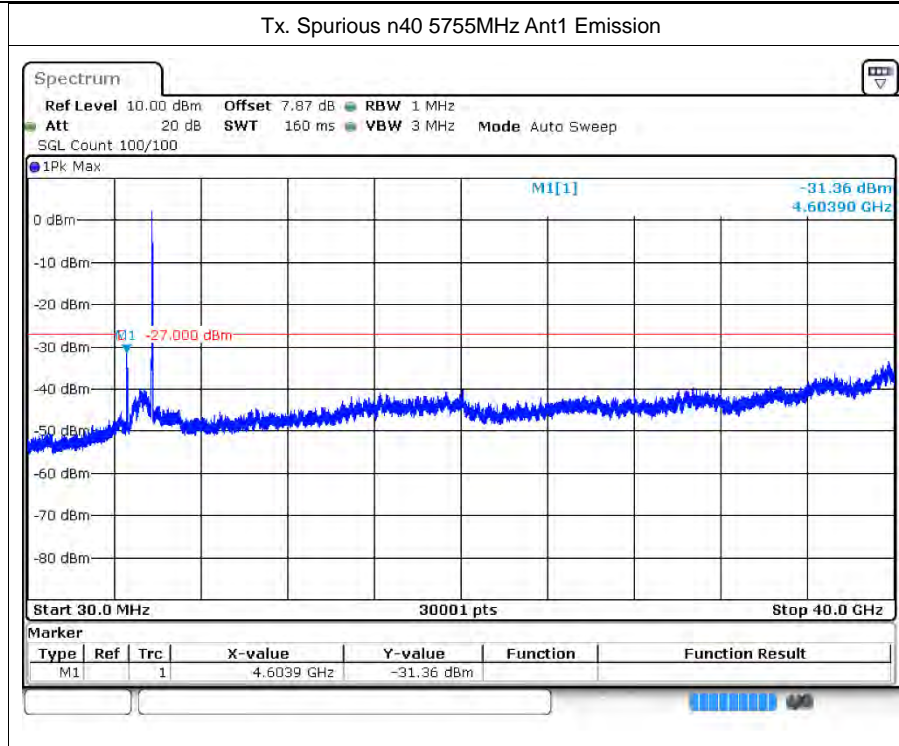


## 7.2 Test Graphs

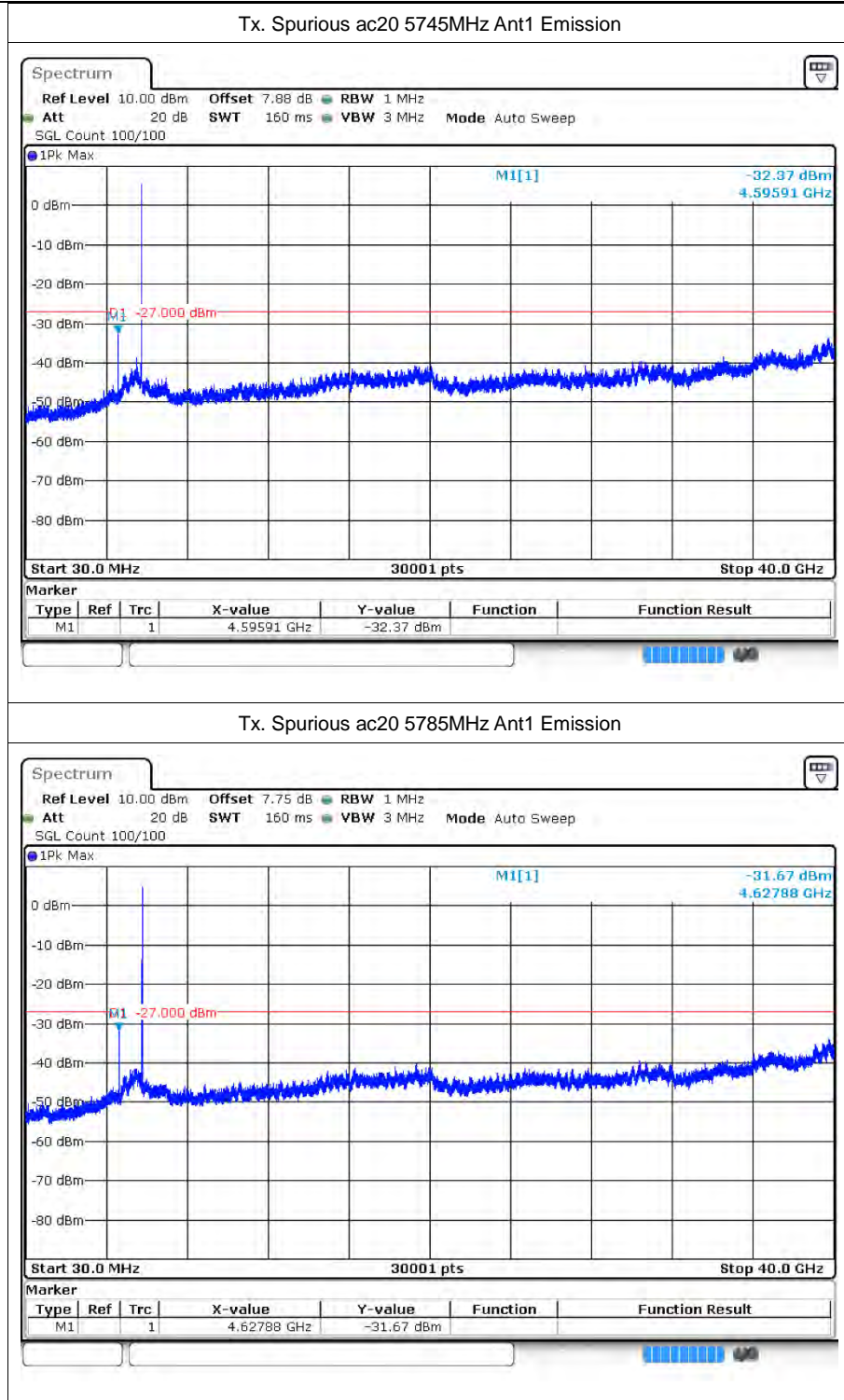


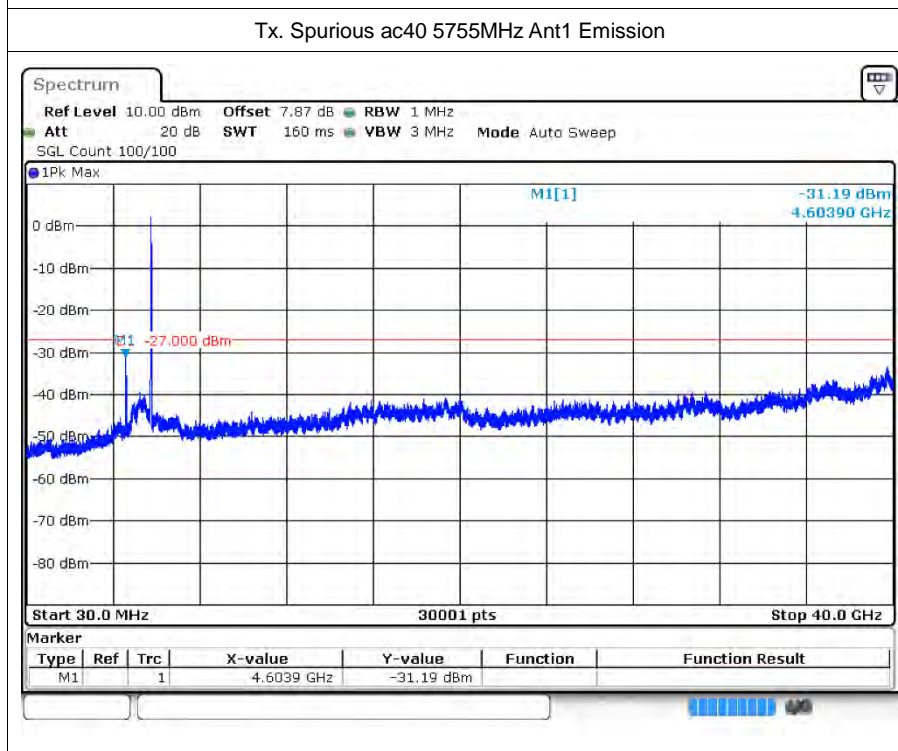
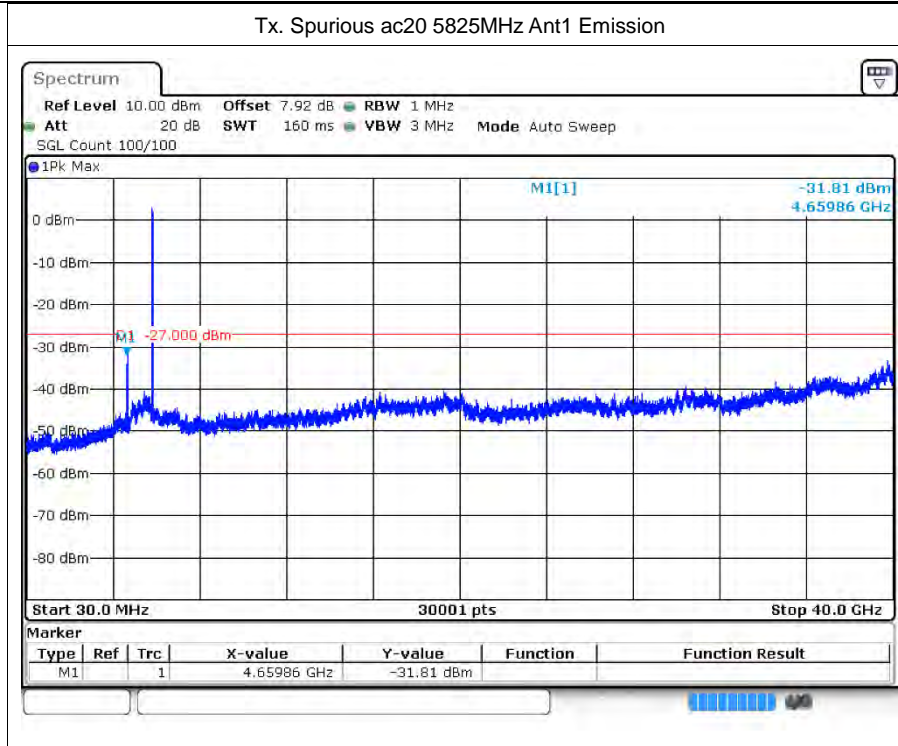


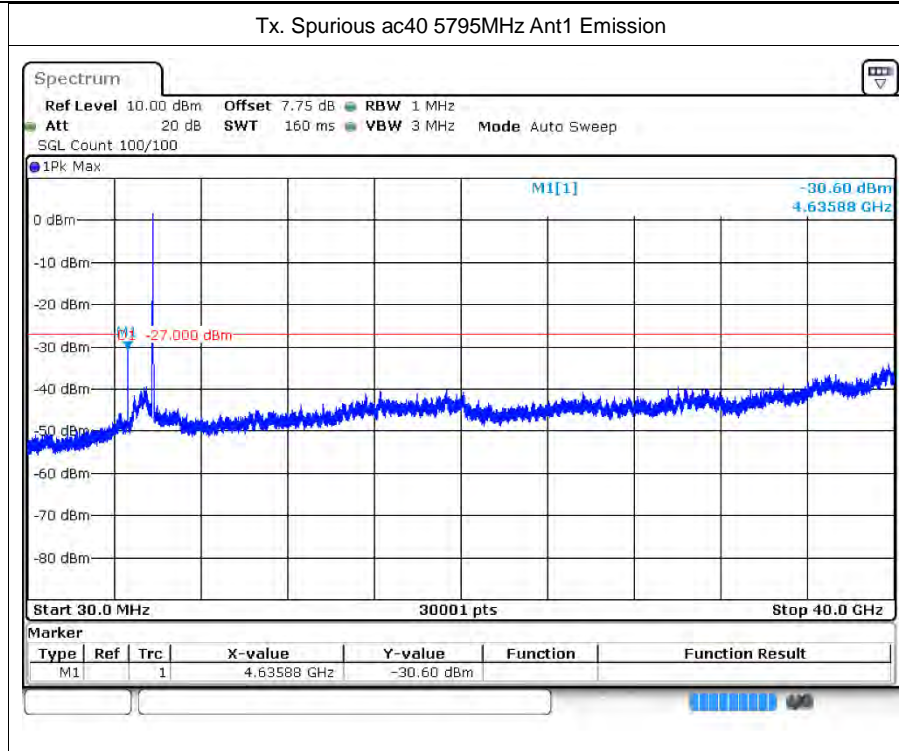


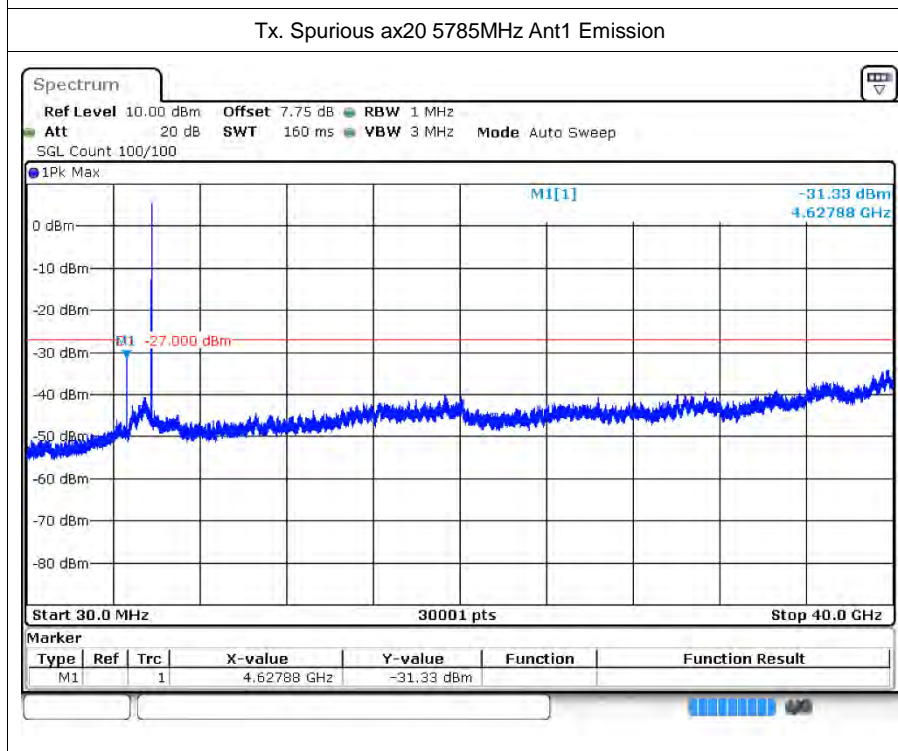
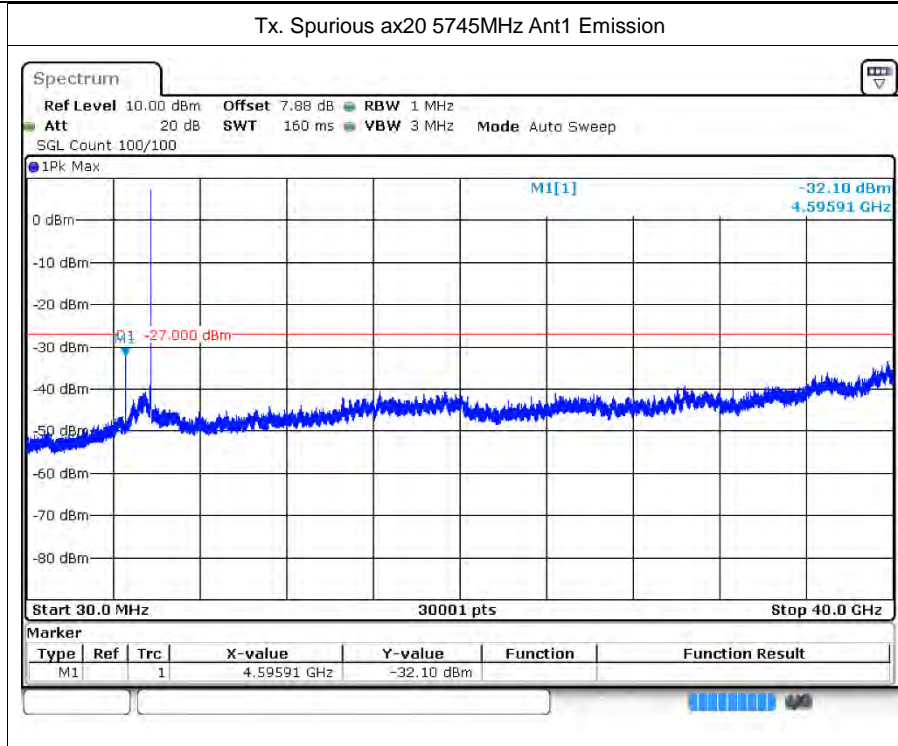


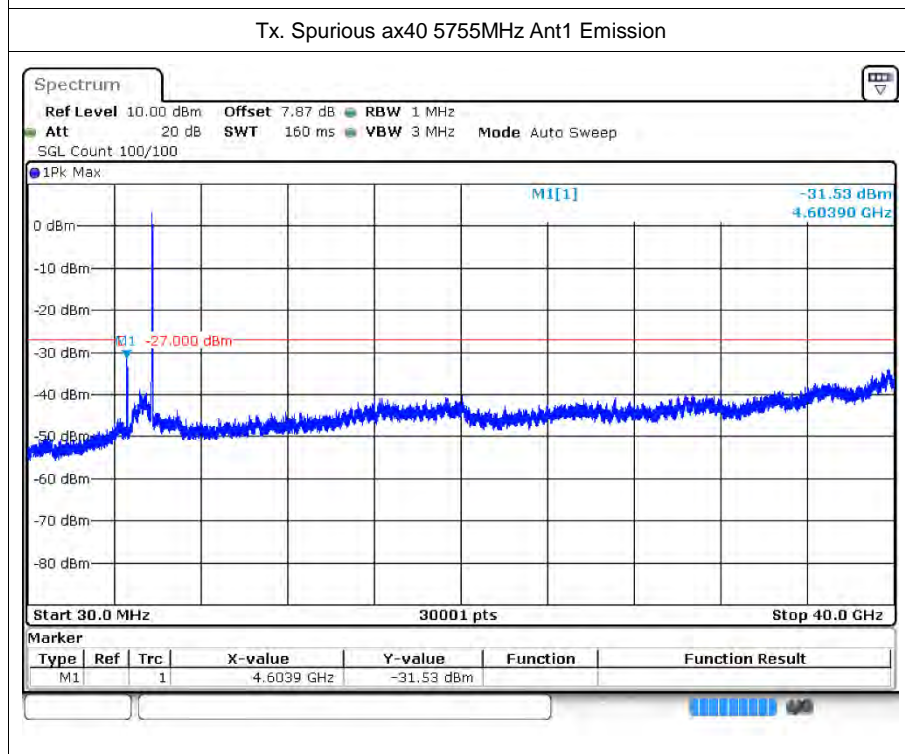
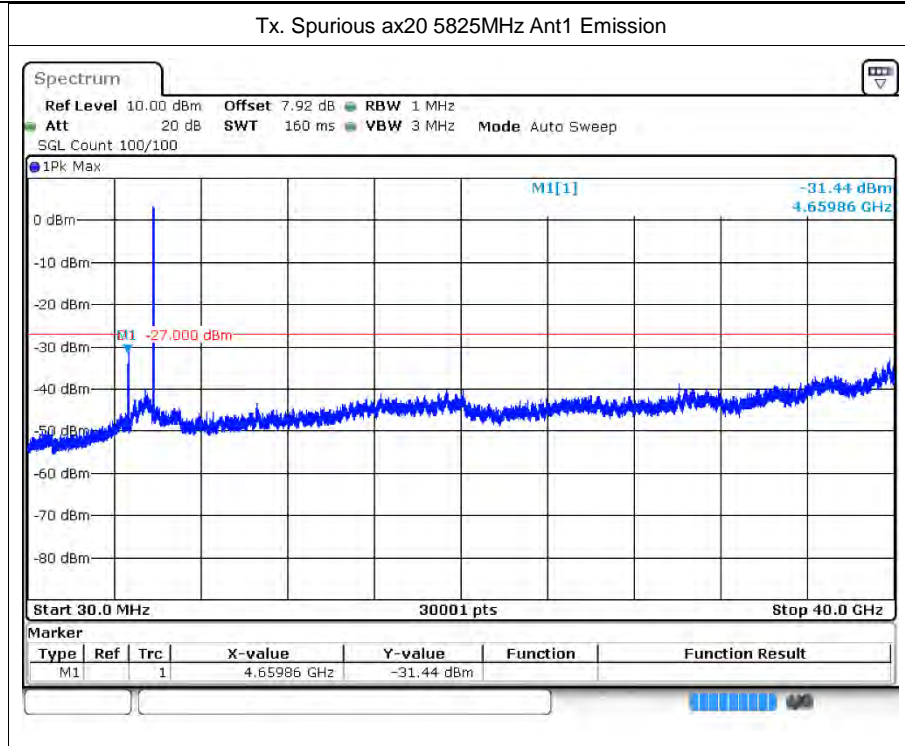


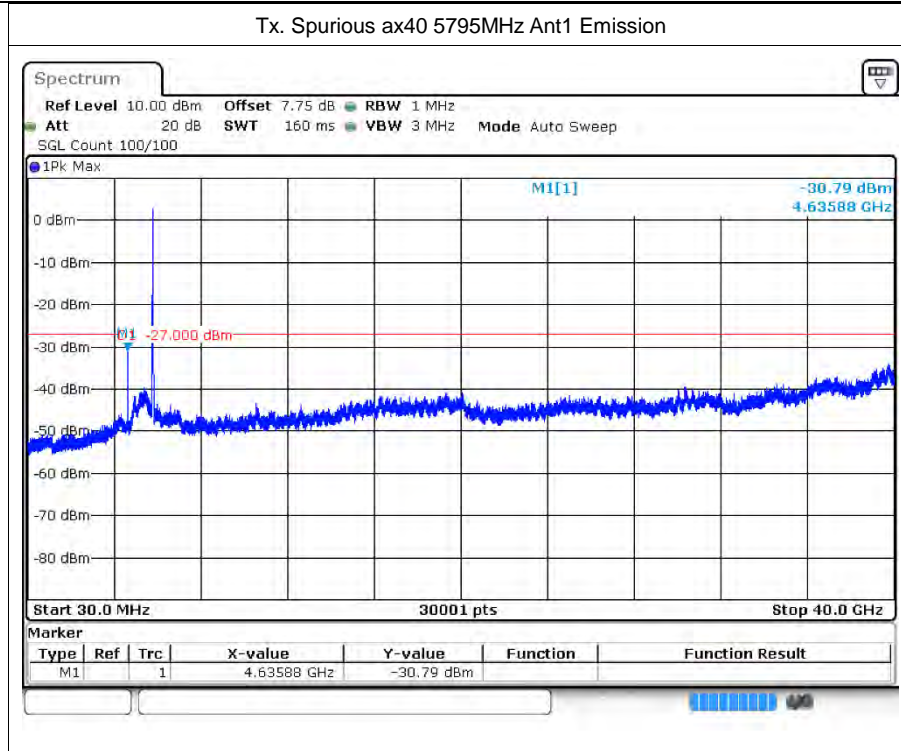














## 8 Restrict Band

### 8.1 Test Result

Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
a	5745	Ant1	5650	-40.57	3	-37.57	Peak	-27	Pass
a	5745	Ant1	5650	-49.39	3	-46.39	Average	-27	Pass
a	5745	Ant1	5700	-40.18	3	-37.18	Peak	10	Pass
a	5745	Ant1	5700	-49.03	3	-46.03	Average	10	Pass
a	5745	Ant1	5720	-37.11	3	-34.11	Peak	15.6	Pass
a	5745	Ant1	5720	-48.91	3	-45.91	Average	15.6	Pass
a	5745	Ant1	5725	-36.09	3	-33.09	Peak	27	Pass
a	5745	Ant1	5725	-46.95	3	-43.95	Average	27	Pass
a	5825	Ant1	5850	-42.02	3	-39.02	Peak	27	Pass
a	5825	Ant1	5850	-48.69	3	-45.69	Average	27	Pass
a	5825	Ant1	5855	-39.79	3	-36.79	Peak	15.6	Pass
a	5825	Ant1	5855	-48.84	3	-45.84	Average	15.6	Pass
a	5825	Ant1	5875	-39.88	3	-36.88	Peak	10	Pass
a	5825	Ant1	5875	-48.56	3	-45.56	Average	10	Pass
a	5825	Ant1	5925	-40.52	3	-37.52	Peak	-27	Pass
a	5825	Ant1	5925	-48.42	3	-45.42	Average	-27	Pass
n20	5745	Ant1	5650	-38	3	-35	Peak	-27	Pass
n20	5745	Ant1	5650	-48.88	3	-45.88	Average	-27	Pass
n20	5745	Ant1	5700	-40.07	3	-37.07	Peak	10	Pass
n20	5745	Ant1	5700	-48.62	3	-45.62	Average	10	Pass
n20	5745	Ant1	5720	-40.4	3	-37.4	Peak	15.6	Pass
n20	5745	Ant1	5720	-48.72	3	-45.72	Average	15.6	Pass
n20	5745	Ant1	5725	-37.26	3	-34.26	Peak	27	Pass
n20	5745	Ant1	5725	-46.36	3	-43.36	Average	27	Pass
n20	5825	Ant1	5850	-41.42	3	-38.42	Peak	27	Pass
n20	5825	Ant1	5850	-48.88	3	-45.88	Average	27	Pass
n20	5825	Ant1	5855	-39.08	3	-36.08	Peak	15.6	Pass
n20	5825	Ant1	5855	-48.64	3	-45.64	Average	15.6	Pass
n20	5825	Ant1	5875	-40.08	3	-37.08	Peak	10	Pass
n20	5825	Ant1	5875	-48.38	3	-45.38	Average	10	Pass
n20	5825	Ant1	5925	-37.87	3	-34.87	Peak	-27	Pass
n20	5825	Ant1	5925	-48.13	3	-45.13	Average	-27	Pass
n40	5755	Ant1	5650	-41.71	3	-38.71	Peak	-27	Pass
n40	5755	Ant1	5650	-48.09	3	-45.09	Average	-27	Pass
n40	5755	Ant1	5700	-40.65	3	-37.65	Peak	10	Pass
n40	5755	Ant1	5700	-48.14	3	-45.14	Average	10	Pass



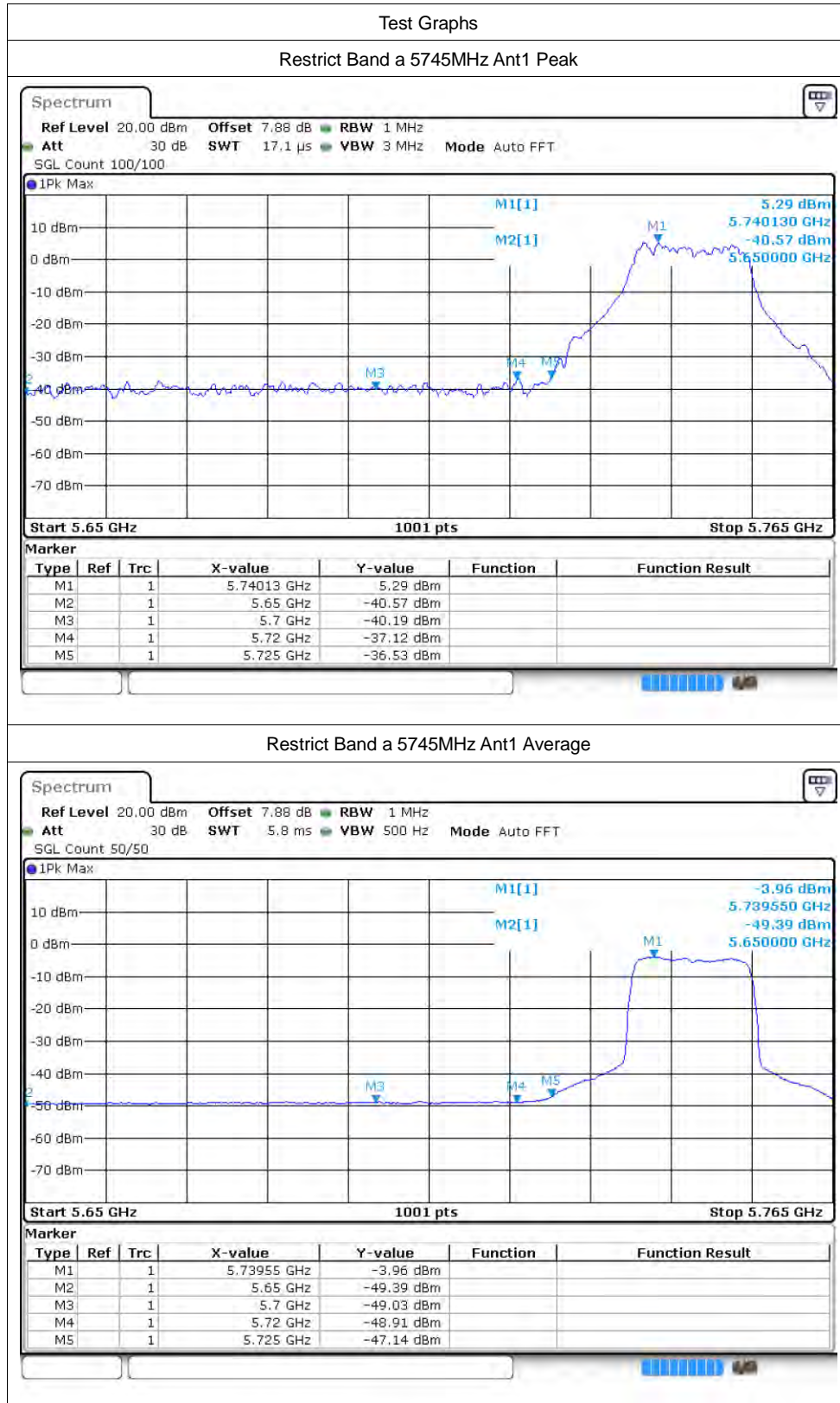
n40	5755	Ant1	5720	-38.78	3	-35.78	Peak	15.6	Pass
n40	5755	Ant1	5720	-46.72	3	-43.72	Average	15.6	Pass
n40	5755	Ant1	5725	-34.8	3	-31.8	Peak	27	Pass
n40	5755	Ant1	5725	-44.88	3	-41.88	Average	27	Pass
n40	5795	Ant1	5850	-39.29	3	-36.29	Peak	27	Pass
n40	5795	Ant1	5850	-48.77	3	-45.77	Average	27	Pass
n40	5795	Ant1	5855	-40.33	3	-37.33	Peak	15.6	Pass
n40	5795	Ant1	5855	-48.18	3	-45.18	Average	15.6	Pass
n40	5795	Ant1	5875	-39.59	3	-36.59	Peak	10	Pass
n40	5795	Ant1	5875	-48.14	3	-45.14	Average	10	Pass
n40	5795	Ant1	5925	-40.05	3	-37.05	Peak	-27	Pass
n40	5795	Ant1	5925	-48.21	3	-45.21	Average	-27	Pass
ac20	5745	Ant1	5650	-40.89	3	-37.89	Peak	-27	Pass
ac20	5745	Ant1	5650	-49.08	3	-46.08	Average	-27	Pass
ac20	5745	Ant1	5700	-39.25	3	-36.25	Peak	10	Pass
ac20	5745	Ant1	5700	-48.73	3	-45.73	Average	10	Pass
ac20	5745	Ant1	5720	-41.73	3	-38.73	Peak	15.6	Pass
ac20	5745	Ant1	5720	-48.3	3	-45.3	Average	15.6	Pass
ac20	5745	Ant1	5725	-36.52	3	-33.52	Peak	27	Pass
ac20	5745	Ant1	5725	-46.54	3	-43.54	Average	27	Pass
ac20	5825	Ant1	5850	-40.57	3	-37.57	Peak	27	Pass
ac20	5825	Ant1	5850	-48.79	3	-45.79	Average	27	Pass
ac20	5825	Ant1	5855	-38.69	3	-35.69	Peak	15.6	Pass
ac20	5825	Ant1	5855	-48.74	3	-45.74	Average	15.6	Pass
ac20	5825	Ant1	5875	-40.63	3	-37.63	Peak	10	Pass
ac20	5825	Ant1	5875	-48.3	3	-45.3	Average	10	Pass
ac20	5825	Ant1	5925	-37.35	3	-34.35	Peak	-27	Pass
ac20	5825	Ant1	5925	-48.09	3	-45.09	Average	-27	Pass
ac40	5755	Ant1	5650	-41.07	3	-38.07	Peak	-27	Pass
ac40	5755	Ant1	5650	-48.55	3	-45.55	Average	-27	Pass
ac40	5755	Ant1	5700	-39.56	3	-36.56	Peak	10	Pass
ac40	5755	Ant1	5700	-48.43	3	-45.43	Average	10	Pass
ac40	5755	Ant1	5720	-38.29	3	-35.29	Peak	15.6	Pass
ac40	5755	Ant1	5720	-46.95	3	-43.95	Average	15.6	Pass
ac40	5755	Ant1	5725	-34.53	3	-31.53	Peak	27	Pass
ac40	5755	Ant1	5725	-44.94	3	-41.94	Average	27	Pass
ac40	5795	Ant1	5850	-39.49	3	-36.49	Peak	27	Pass
ac40	5795	Ant1	5850	-48.15	3	-45.15	Average	27	Pass
ac40	5795	Ant1	5855	-39.48	3	-36.48	Peak	15.6	Pass
ac40	5795	Ant1	5855	-48.28	3	-45.28	Average	15.6	Pass
ac40	5795	Ant1	5875	-39.03	3	-36.03	Peak	10	Pass
ac40	5795	Ant1	5875	-48.22	3	-45.22	Average	10	Pass
ac40	5795	Ant1	5925	-37.87	3	-34.87	Peak	-27	Pass





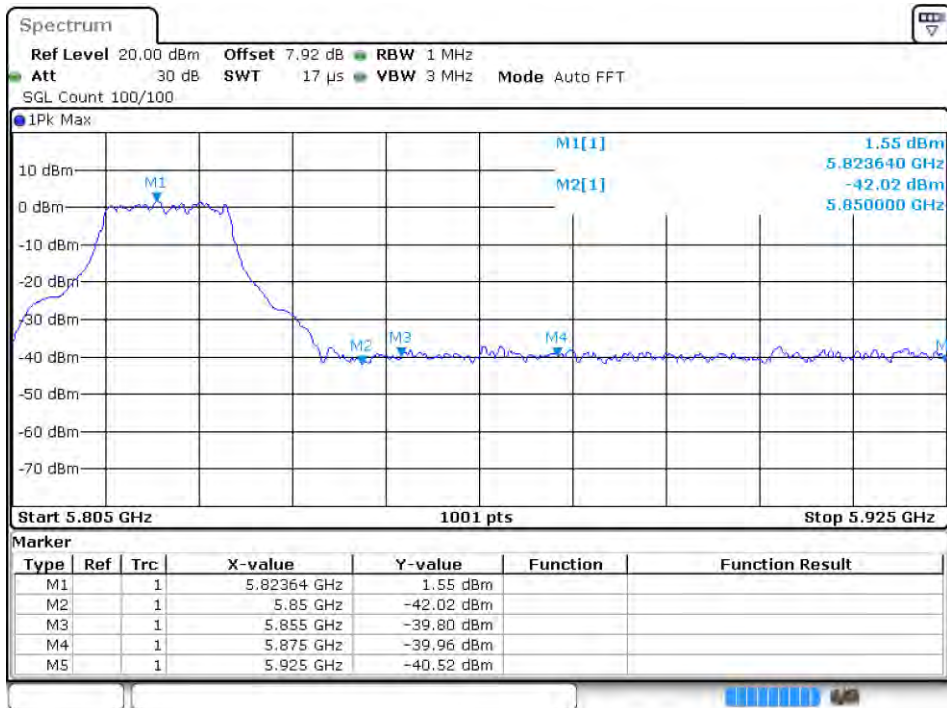
ac40	5795	Ant1	5925	-47.96	3	-44.96	Average	-27	Pass
ax20	5745	Ant1	5650	-40.53	3	-37.53	Peak	-27	Pass
ax20	5745	Ant1	5650	-48.87	3	-45.87	Average	-27	Pass
ax20	5745	Ant1	5700	-39.96	3	-36.96	Peak	10	Pass
ax20	5745	Ant1	5700	-48.37	3	-45.37	Average	10	Pass
ax20	5745	Ant1	5720	-40.27	3	-37.27	Peak	15.6	Pass
ax20	5745	Ant1	5720	-48.41	3	-45.41	Average	15.6	Pass
ax20	5745	Ant1	5725	-37.35	3	-34.35	Peak	27	Pass
ax20	5745	Ant1	5725	-46.24	3	-43.24	Average	27	Pass
ax20	5825	Ant1	5850	-39.99	3	-36.99	Peak	27	Pass
ax20	5825	Ant1	5850	-48.52	3	-45.52	Average	27	Pass
ax20	5825	Ant1	5855	-38.27	3	-35.27	Peak	15.6	Pass
ax20	5825	Ant1	5855	-48.7	3	-45.7	Average	15.6	Pass
ax20	5825	Ant1	5875	-40.65	3	-37.65	Peak	10	Pass
ax20	5825	Ant1	5875	-48.18	3	-45.18	Average	10	Pass
ax20	5825	Ant1	5925	-40.83	3	-37.83	Peak	-27	Pass
ax20	5825	Ant1	5925	-48.17	3	-45.17	Average	-27	Pass
ax40	5755	Ant1	5650	-41.09	3	-38.09	Peak	-27	Pass
ax40	5755	Ant1	5650	-48.7	3	-45.7	Average	-27	Pass
ax40	5755	Ant1	5700	-39.82	3	-36.82	Peak	10	Pass
ax40	5755	Ant1	5700	-48.11	3	-45.11	Average	10	Pass
ax40	5755	Ant1	5720	-36.04	3	-33.04	Peak	15.6	Pass
ax40	5755	Ant1	5720	-46.73	3	-43.73	Average	15.6	Pass
ax40	5755	Ant1	5725	-37.03	3	-34.03	Peak	27	Pass
ax40	5755	Ant1	5725	-45.65	3	-42.65	Average	27	Pass
ax40	5795	Ant1	5850	-39.92	3	-36.92	Peak	27	Pass
ax40	5795	Ant1	5850	-48.64	3	-45.64	Average	27	Pass
ax40	5795	Ant1	5855	-39.99	3	-36.99	Peak	15.6	Pass
ax40	5795	Ant1	5855	-48.4	3	-45.4	Average	15.6	Pass
ax40	5795	Ant1	5875	-39.94	3	-36.94	Peak	10	Pass
ax40	5795	Ant1	5875	-48.28	3	-45.28	Average	10	Pass
ax40	5795	Ant1	5925	-38.27	3	-35.27	Peak	-27	Pass
ax40	5795	Ant1	5925	-47.88	3	-44.88	Average	-27	Pass

## 8.2 Test Graphs

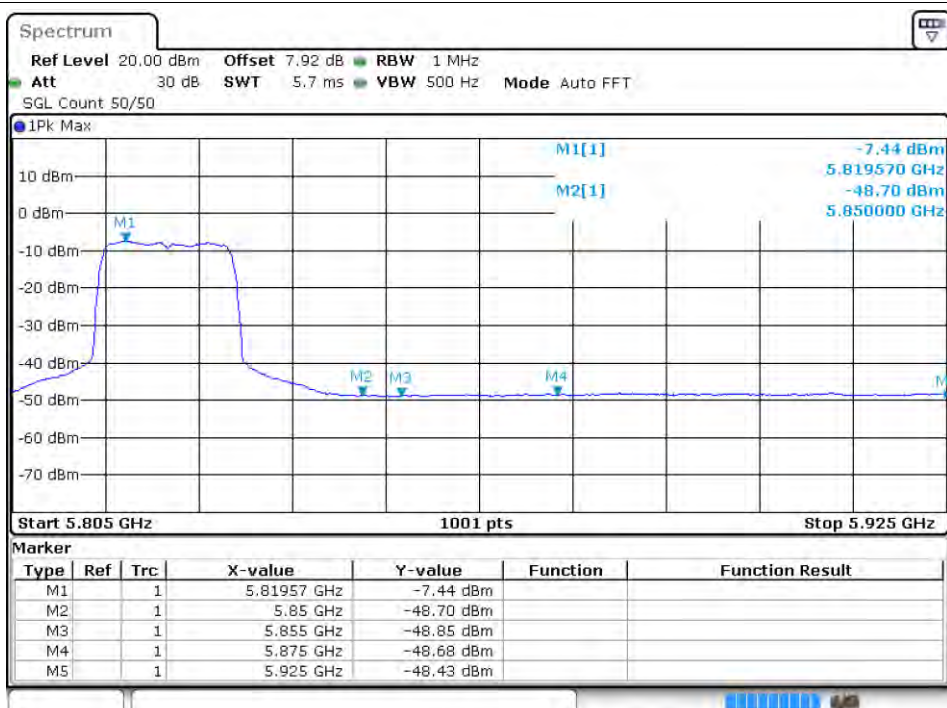




Restrict Band a 5825MHz Ant1 Peak

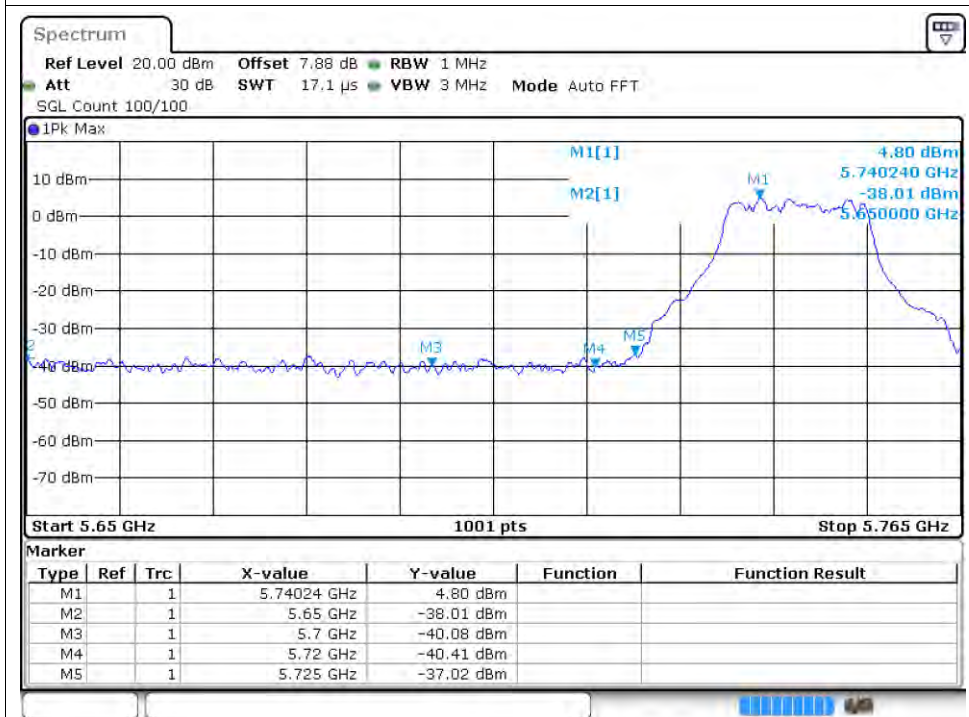


Restrict Band a 5825MHz Ant1 Average

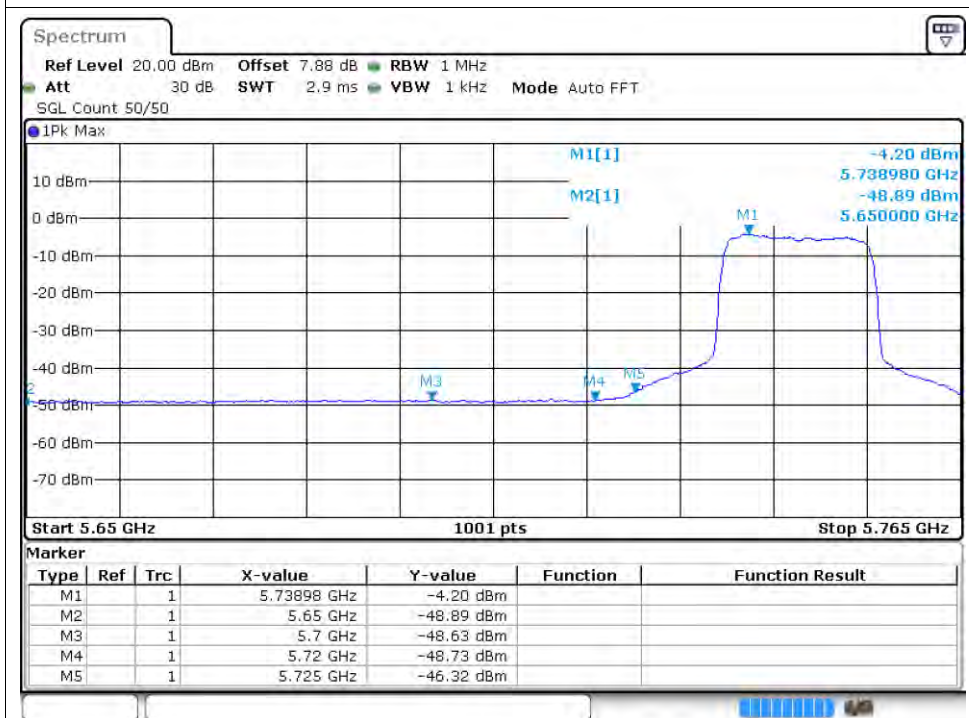




Restrict Band n20 5745MHz Ant1 Peak

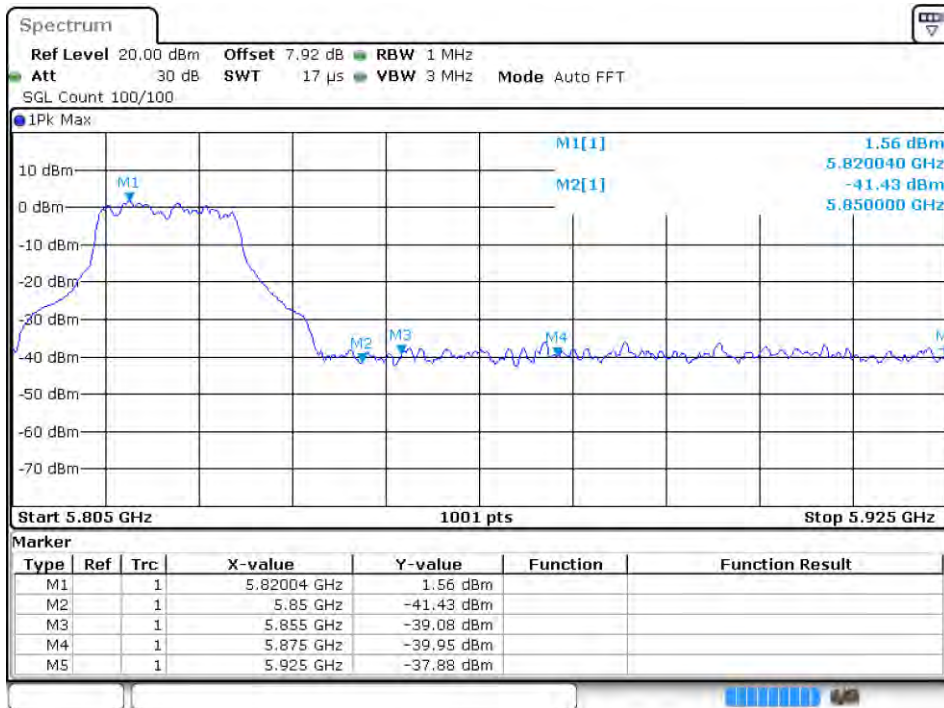


Restrict Band n20 5745MHz Ant1 Average

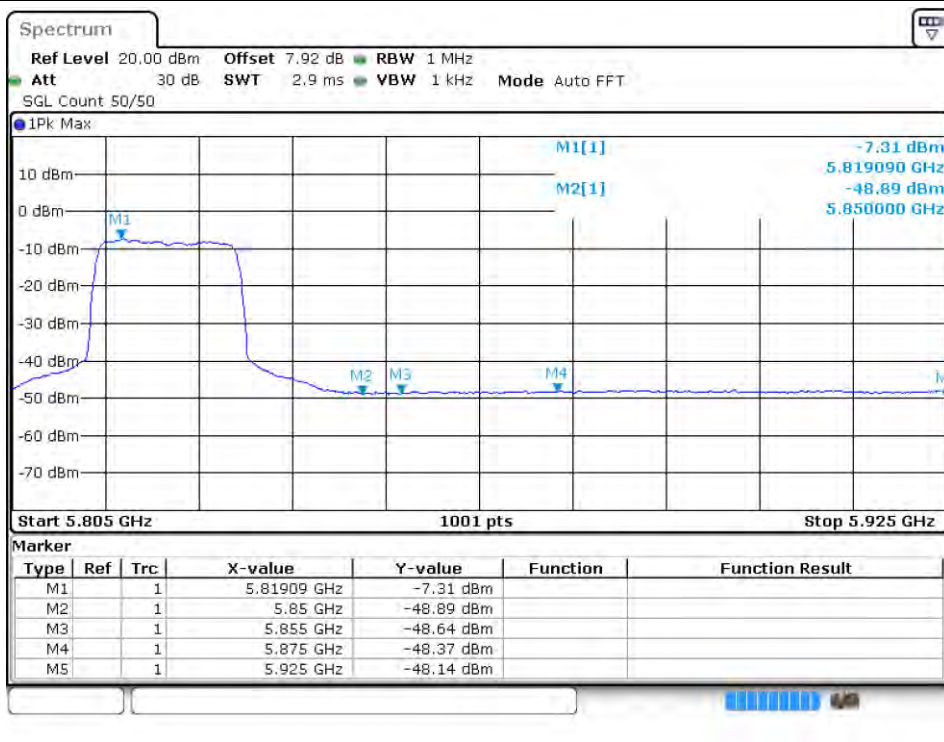




Restrict Band n20 5825MHz Ant1 Peak

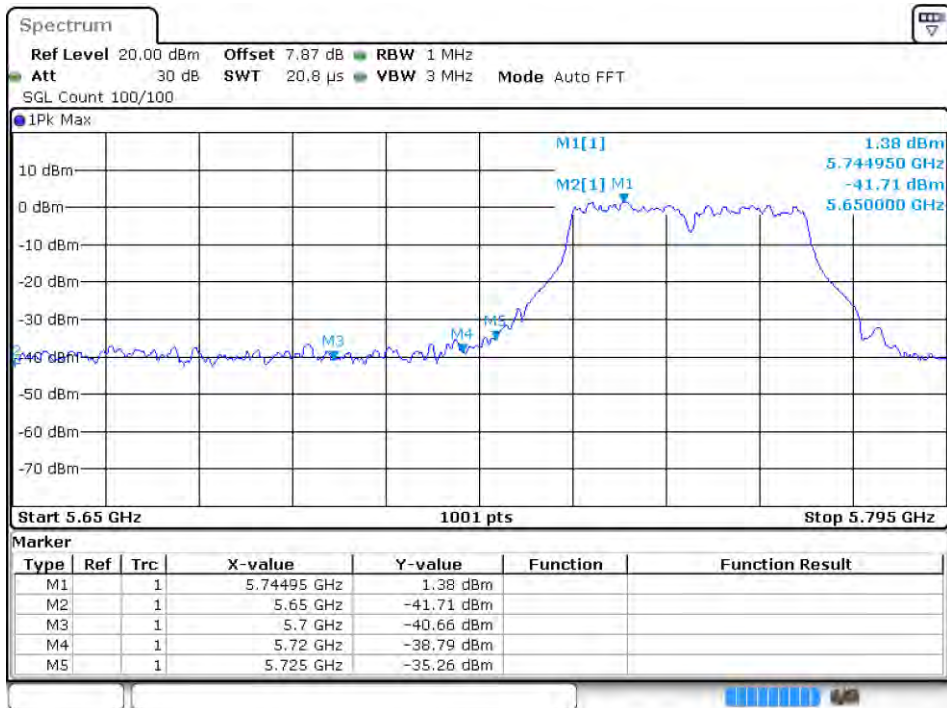


Restrict Band n20 5825MHz Ant1 Average

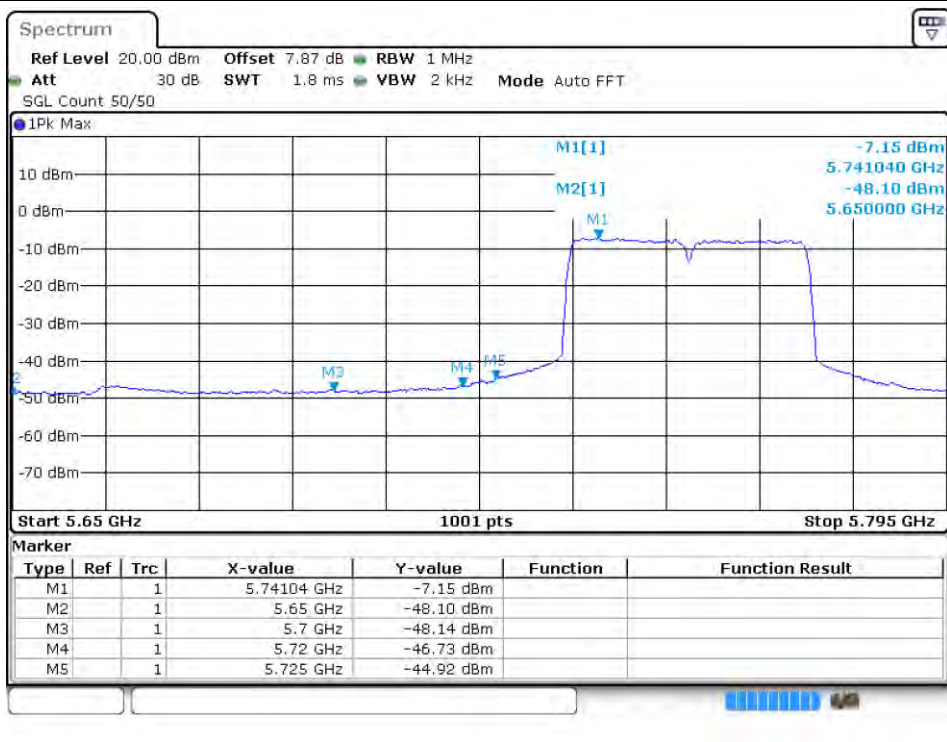




Restrict Band n40 5755MHz Ant1 Peak

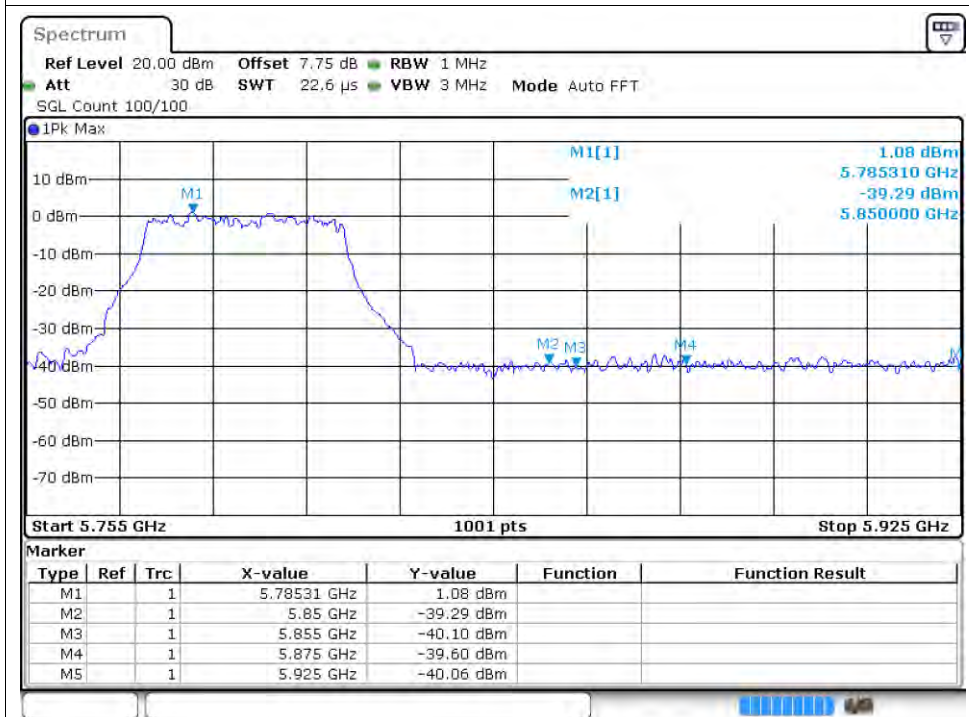


Restrict Band n40 5755MHz Ant1 Average

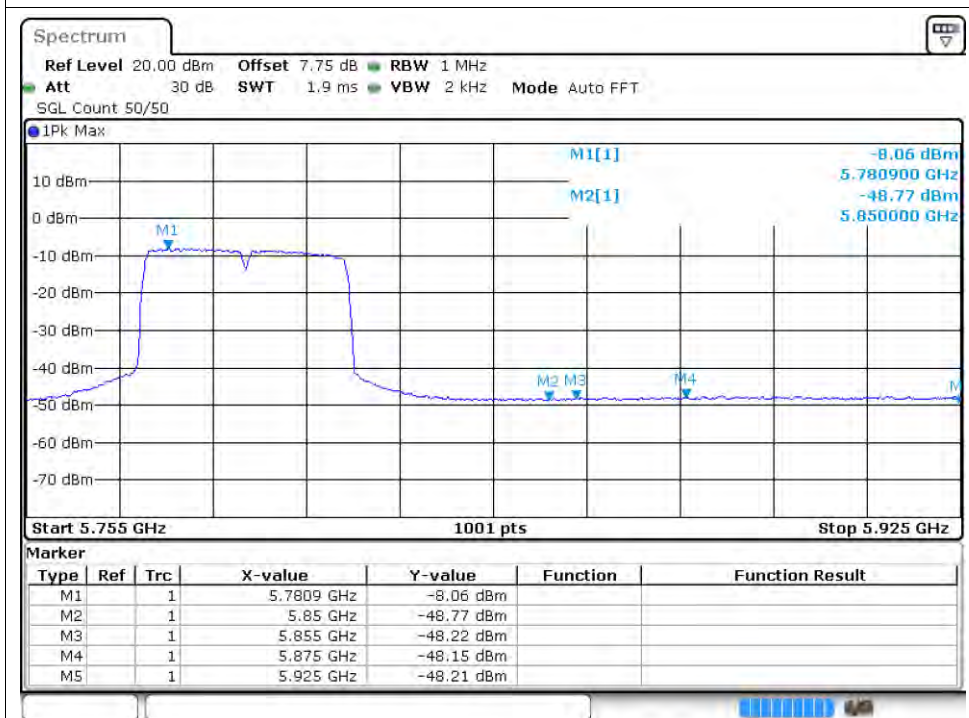




Restrict Band n40 5795MHz Ant1 Peak

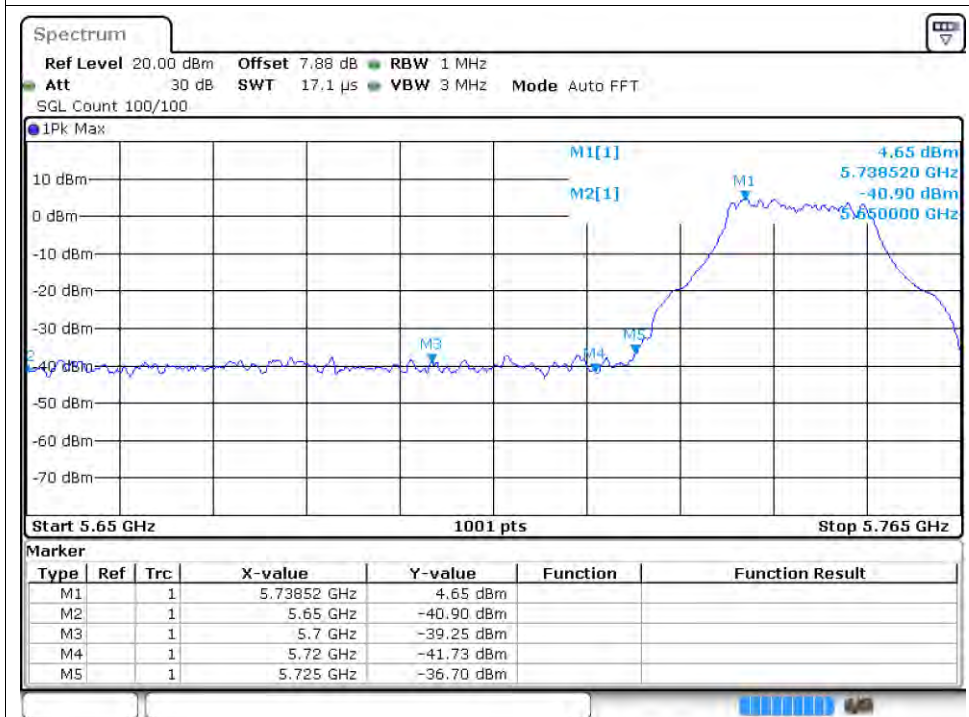


Restrict Band n40 5795MHz Ant1 Average

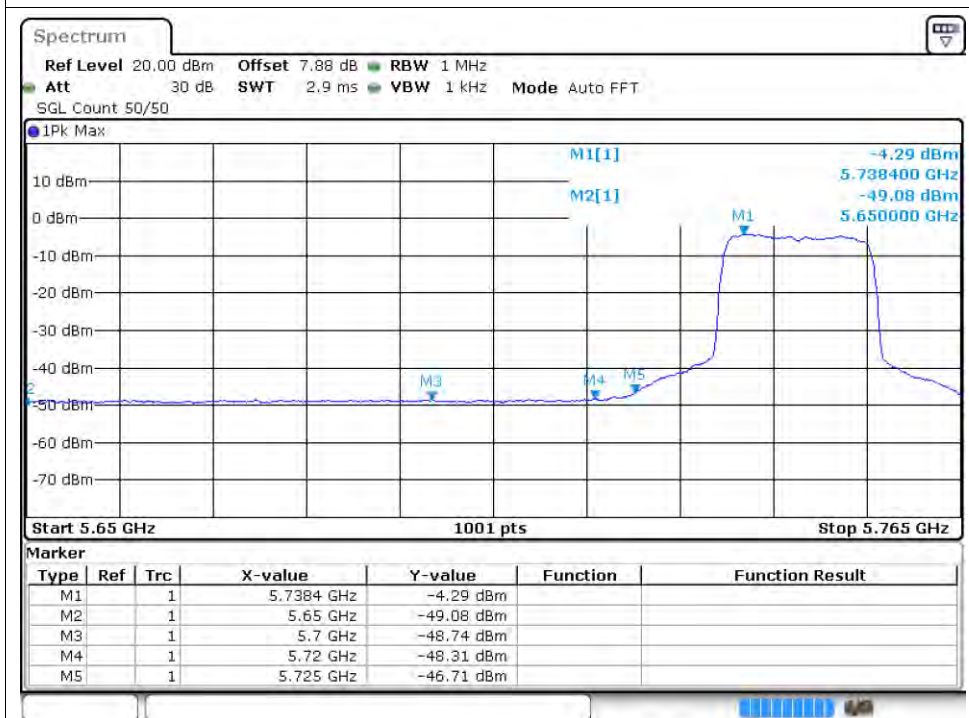




Restrict Band ac20 5745MHz Ant1 Peak



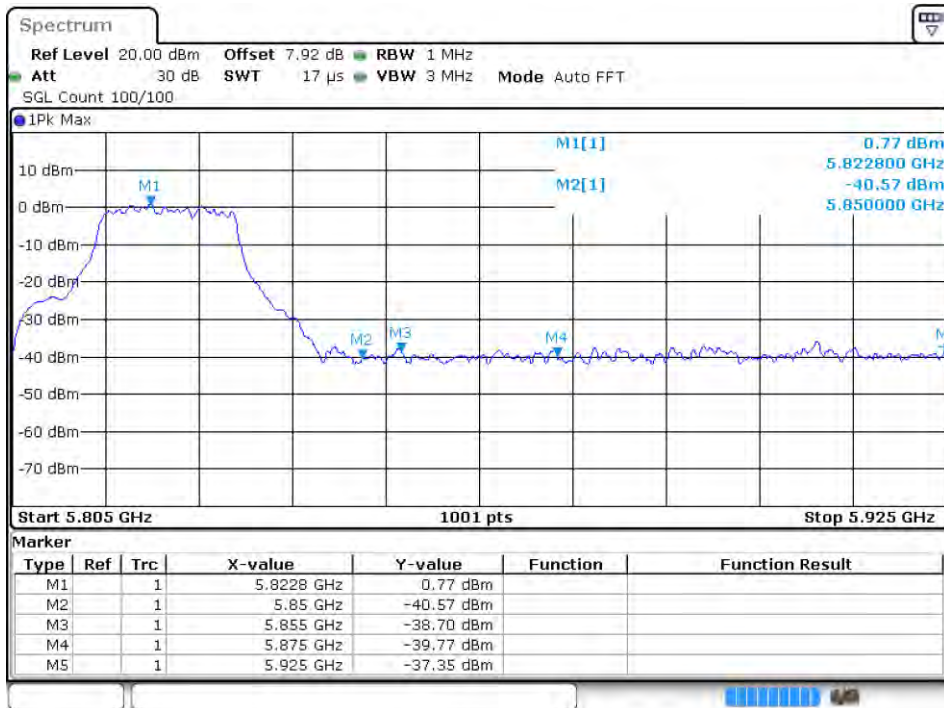
Restrict Band ac20 5745MHz Ant1 Average



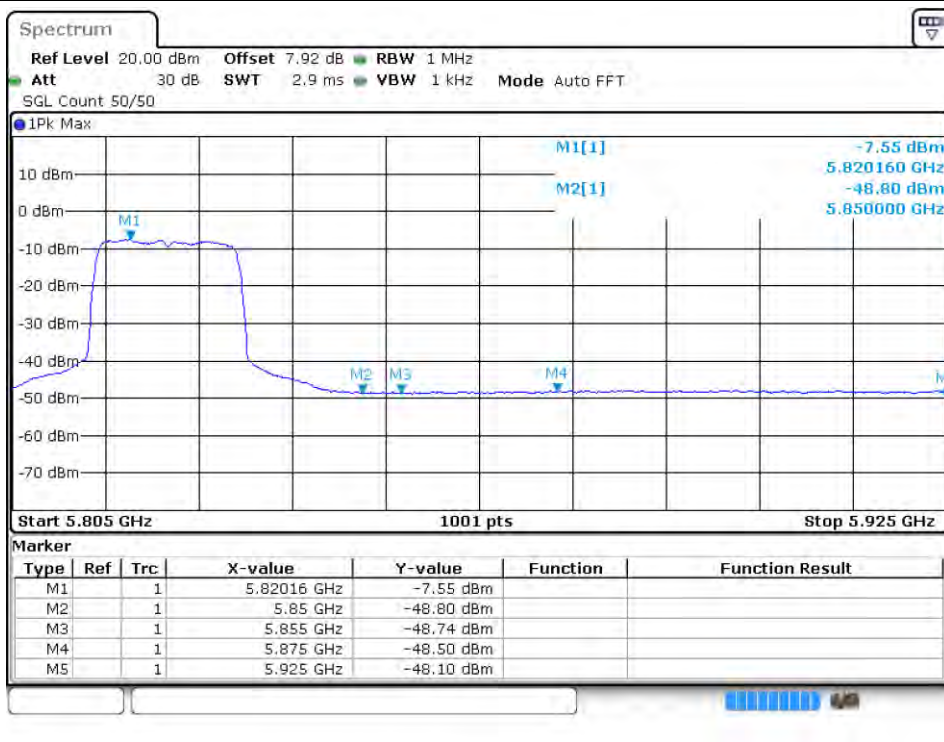




Restrict Band ac20 5825MHz Ant1 Peak

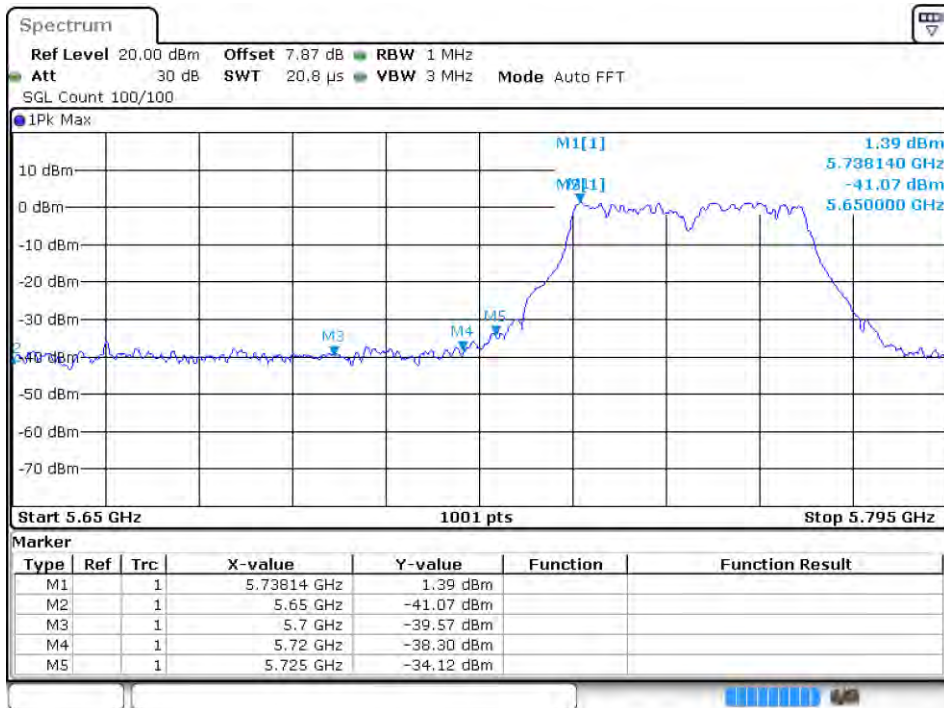


Restrict Band ac20 5825MHz Ant1 Average

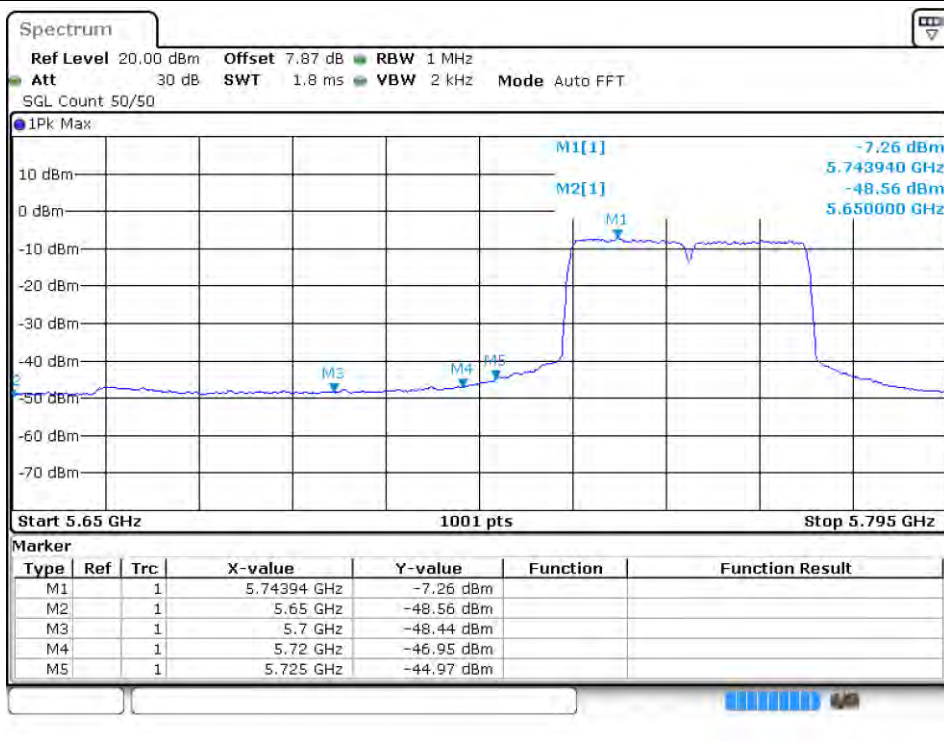




Restrict Band ac40 5755MHz Ant1 Peak

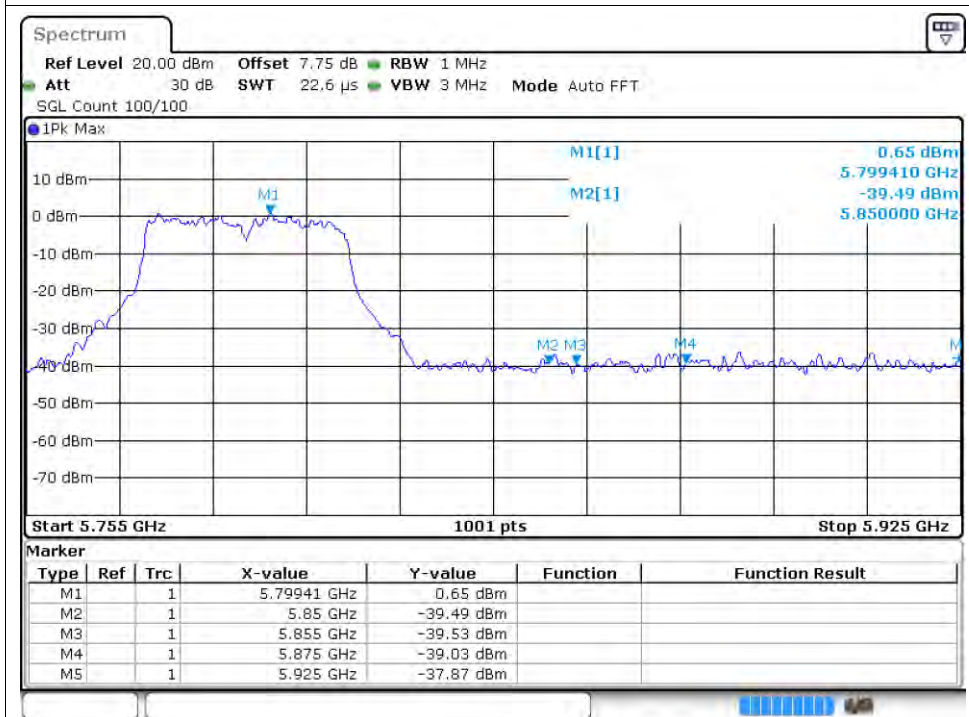


Restrict Band ac40 5755MHz Ant1 Average

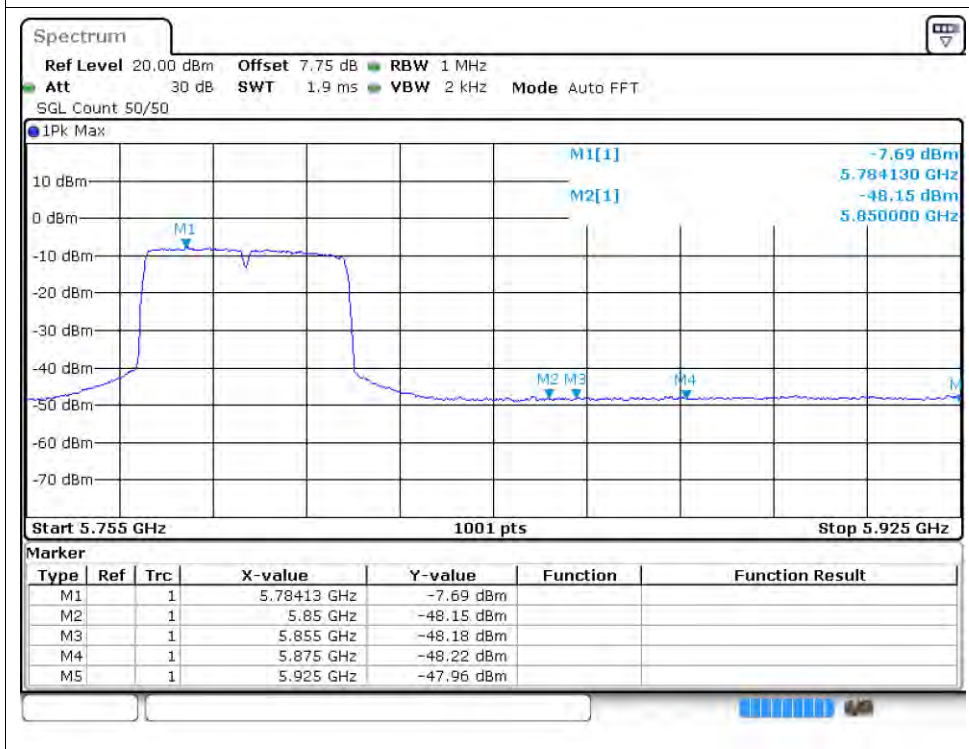




Restrict Band ac40 5795MHz Ant1 Peak

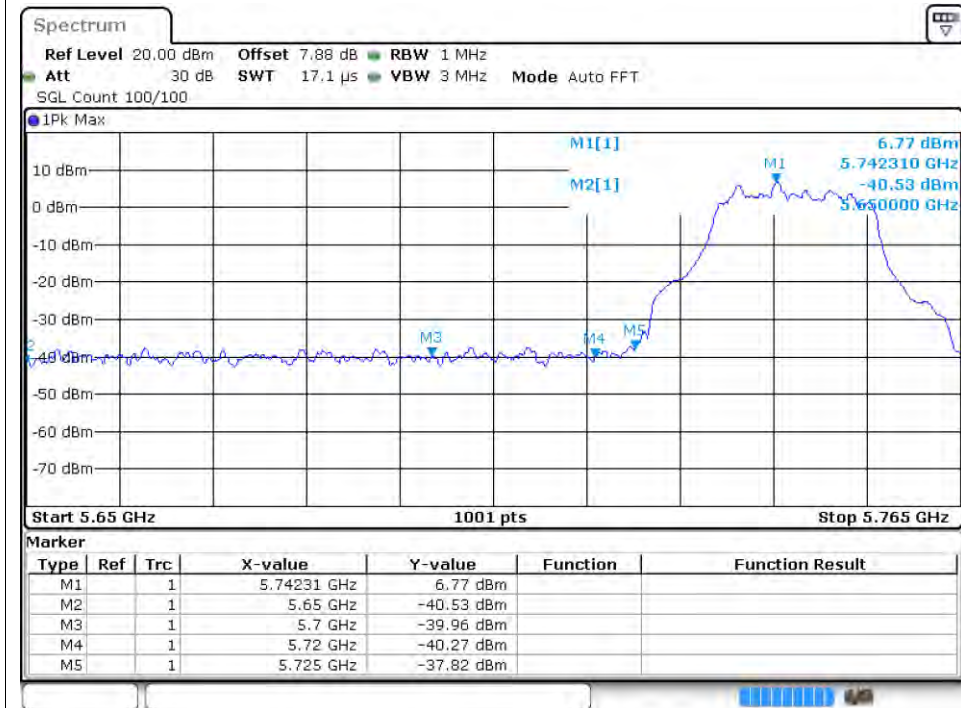


Restrict Band ac40 5795MHz Ant1 Average

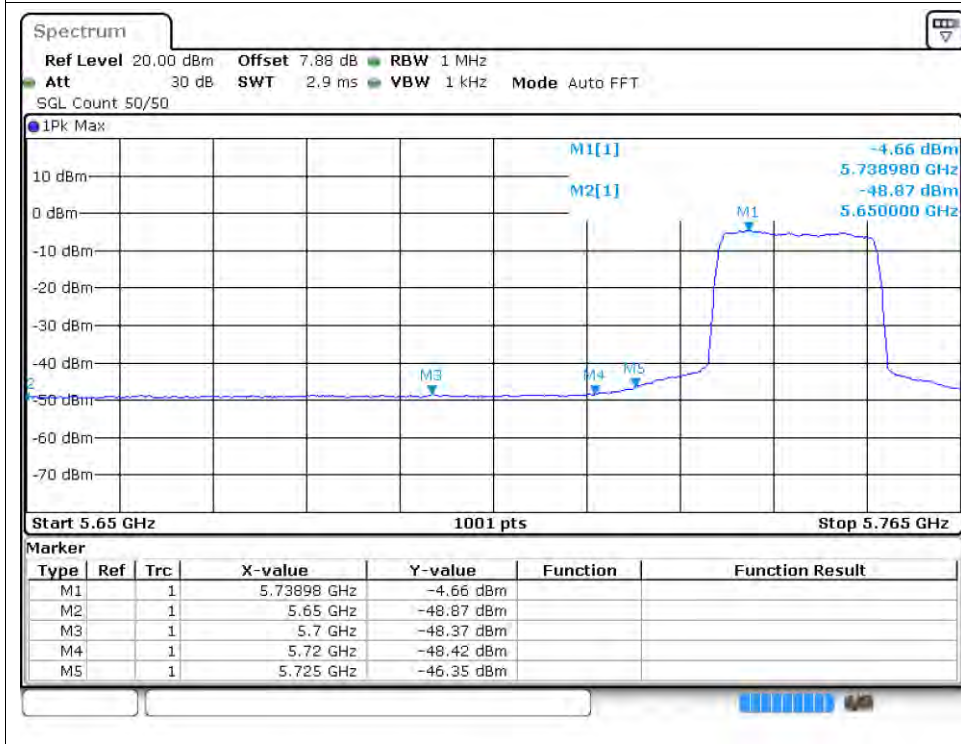




Restrict Band ax20 5745MHz Ant1 Peak

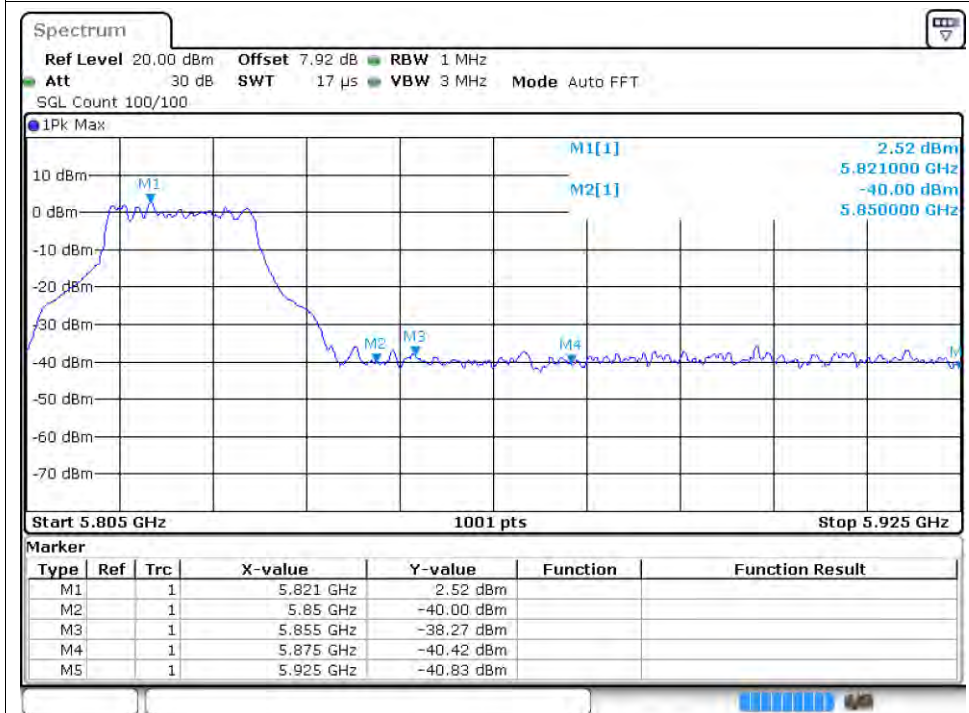


Restrict Band ax20 5745MHz Ant1 Average

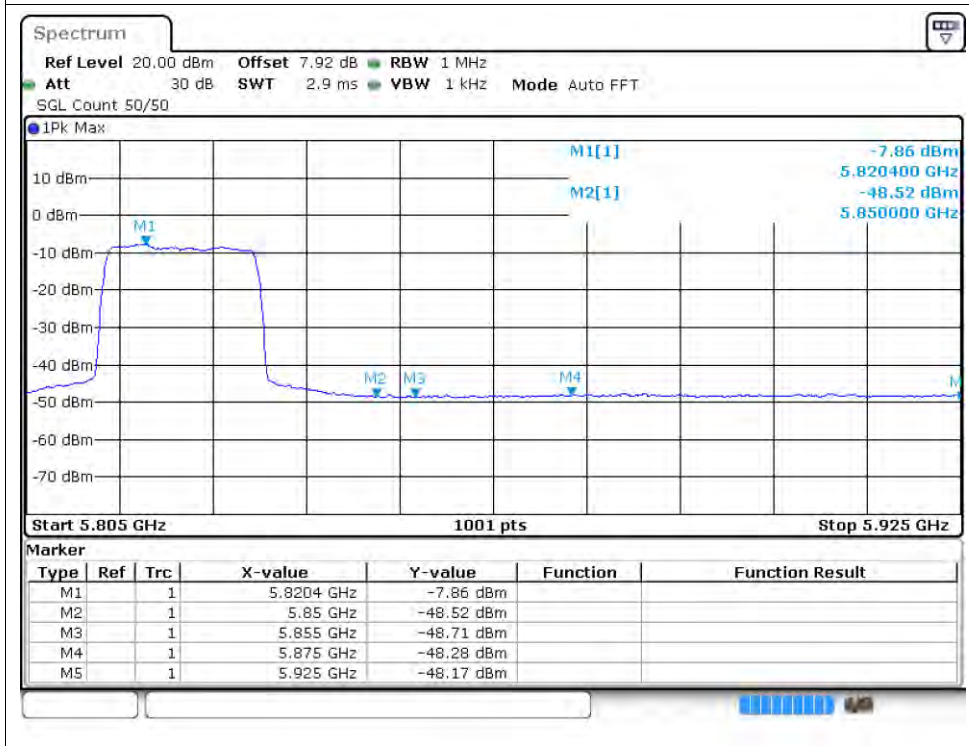




Restrict Band ax20 5825MHz Ant1 Peak

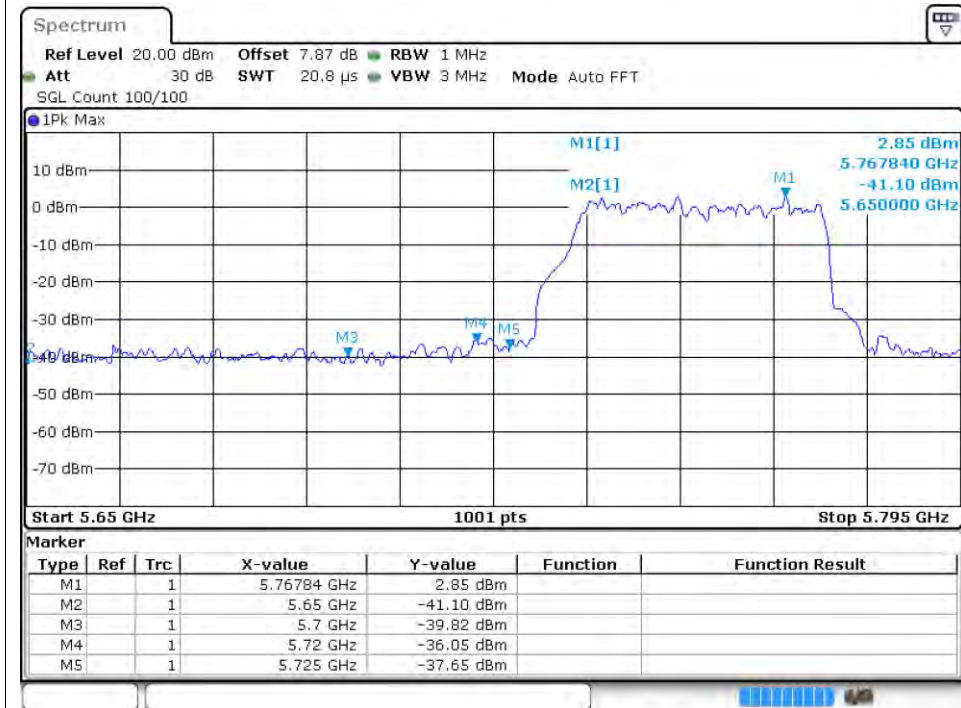


Restrict Band ax20 5825MHz Ant1 Average

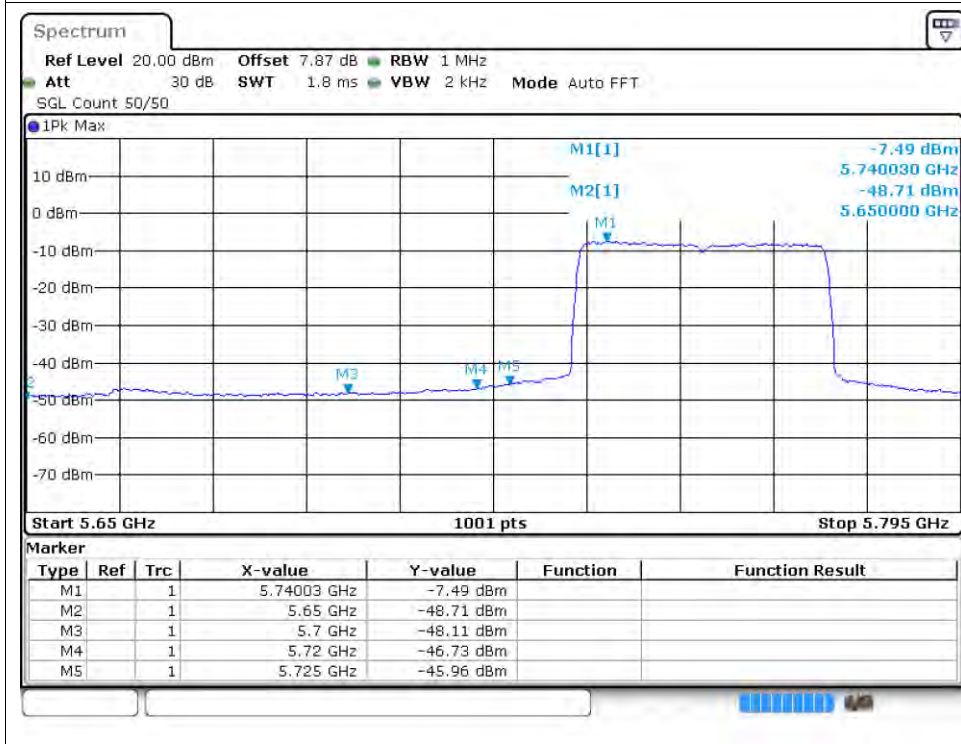




Restrict Band ax40 5755MHz Ant1 Peak

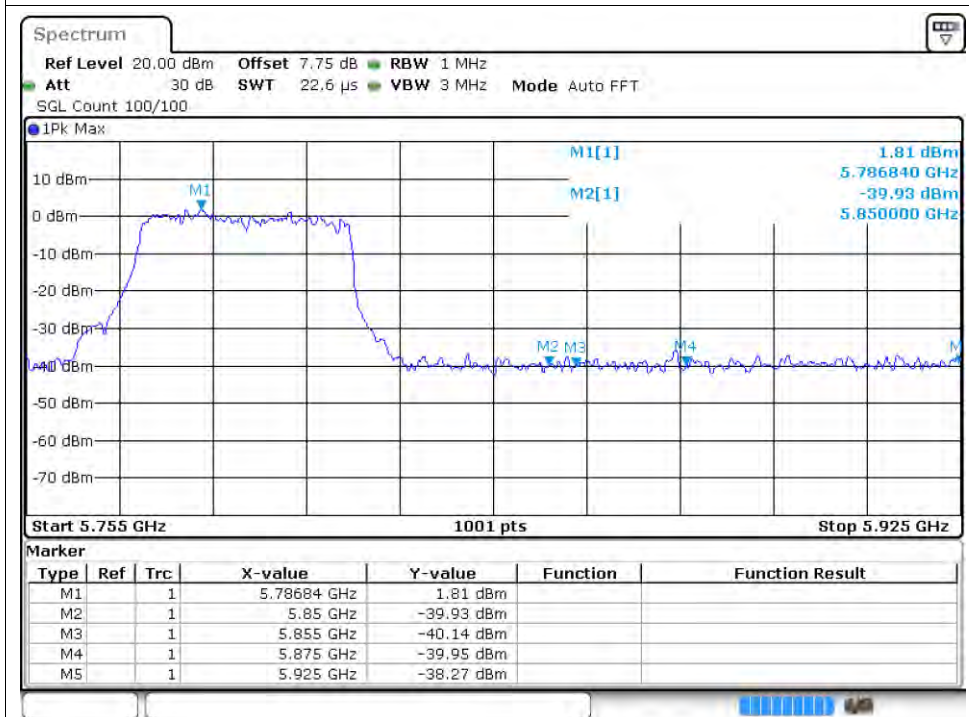


Restrict Band ax40 5755MHz Ant1 Average

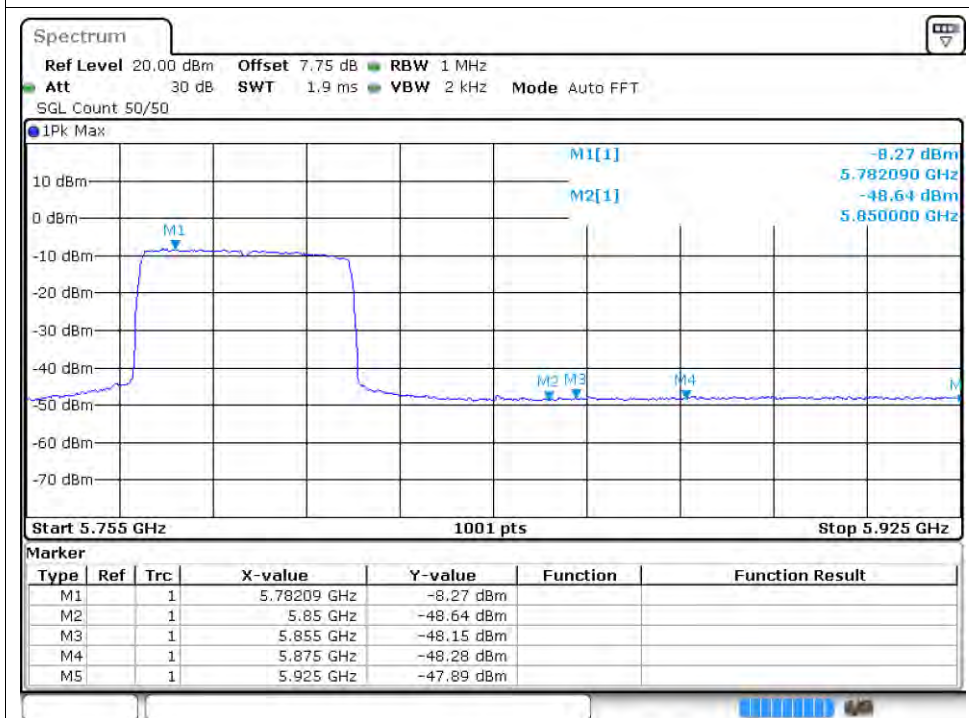




Restrict Band ax40 5795MHz Ant1 Peak



Restrict Band ax40 5795MHz Ant1 Average



---The End---