Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Notebook PC

Trade Mark: Emdoor

Test Model: NP14IC-X(IC918)

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

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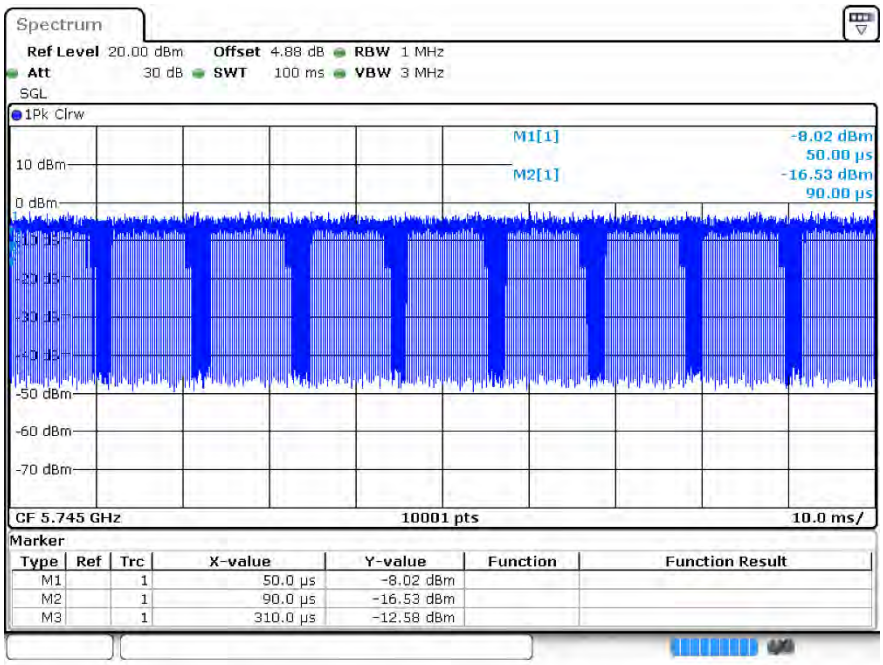
1 Duty Cycle

1.1 Test Result

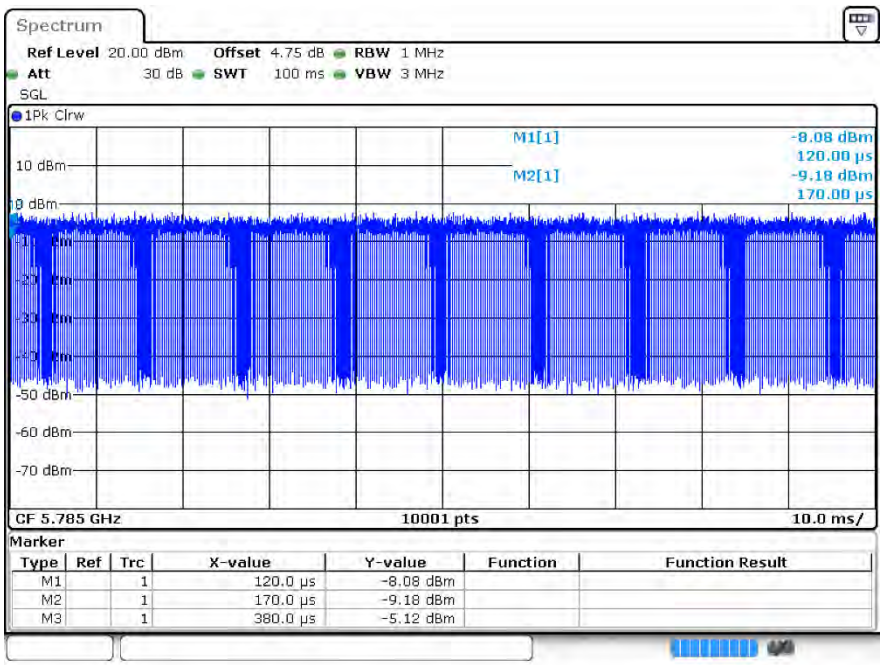
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	86.81	0.61	4.55
a	5785	Ant1	86.92	0.61	4.76
a	5825	Ant1	86.85	0.61	4.55
a	5745	Ant2	86.9	0.61	4.76
a	5785	Ant2	86.93	0.61	4.55
a	5825	Ant2	86.97	0.61	4.76
n20	5745	Ant1	92.88	0.32	2.22
n20	5785	Ant1	92.86	0.32	2.22
n20	5825	Ant1	92.83	0.32	2.22
n20	5745	Ant2	92.89	0.32	2.22
n20	5785	Ant2	92.88	0.32	2.27
n20	5825	Ant2	92.9	0.32	2.27
n40	5755	Ant1	92.37	0.34	2.27
n40	5795	Ant1	90.82	0.42	2.27
n40	5755	Ant2	91.06	0.41	2.33
n40	5795	Ant2	90.99	0.41	2.33
ac20	5745	Ant1	88.04	0.55	4.17
ac20	5785	Ant1	88.02	0.55	4
ac20	5825	Ant1	88.02	0.55	4
ac20	5745	Ant2	87.14	0.6	4.55
ac20	5785	Ant2	87.14	0.6	4.55
ac20	5825	Ant2	87.13	0.6	4.55
ac40	5755	Ant1	86.66	0.62	4.35
ac40	5795	Ant1	85.32	0.69	4.55
ac40	5755	Ant2	82.6	0.83	4.76
ac40	5795	Ant2	81.32	0.9	5.26
ac80	5775	Ant1	80.03	0.97	4.55
ac80	5775	Ant2	79.49	1	4.55

1.2 Test Graphs

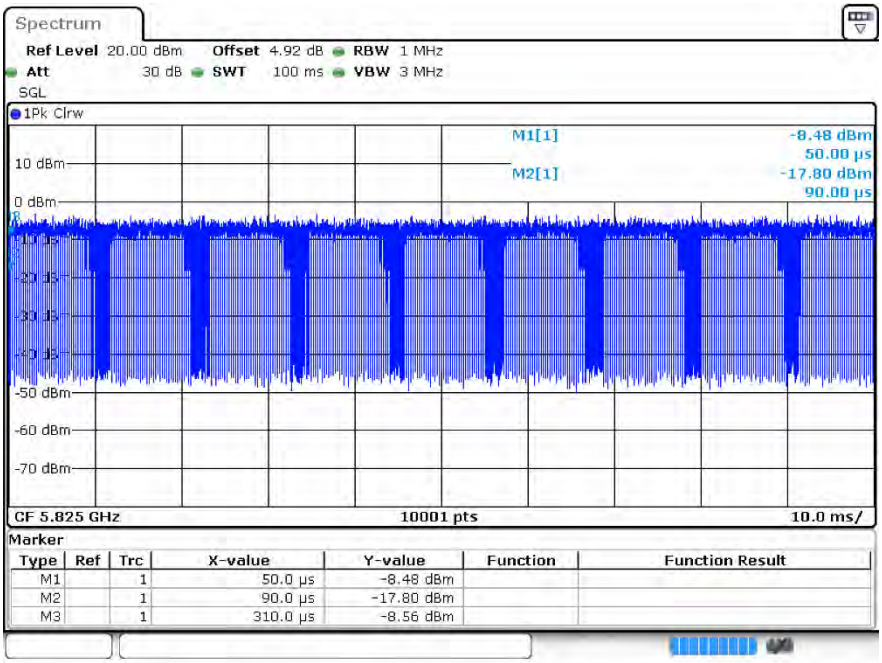
Test Graphs
Duty Cycle a 5745MHz Ant1



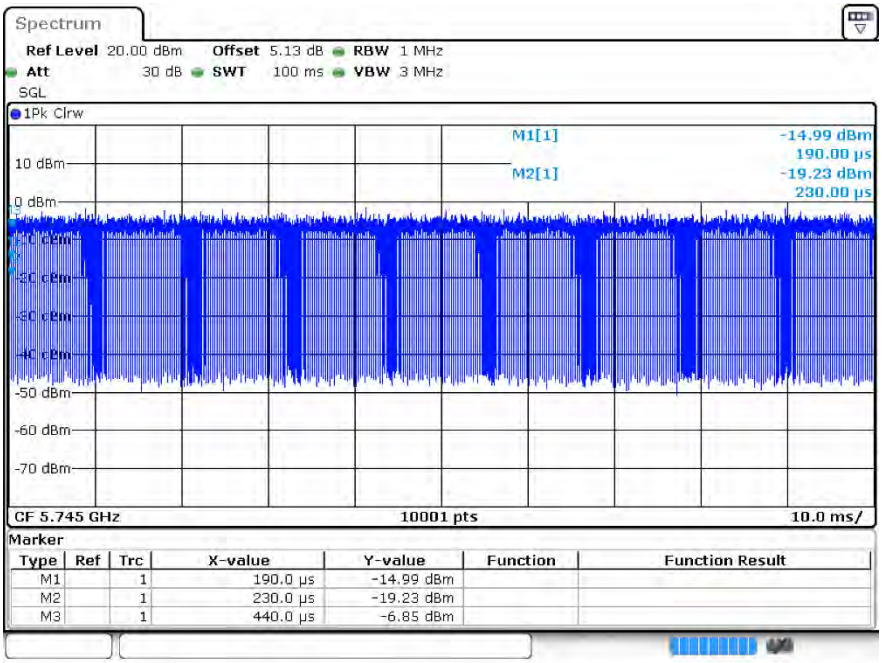
Duty Cycle a 5785MHz Ant1



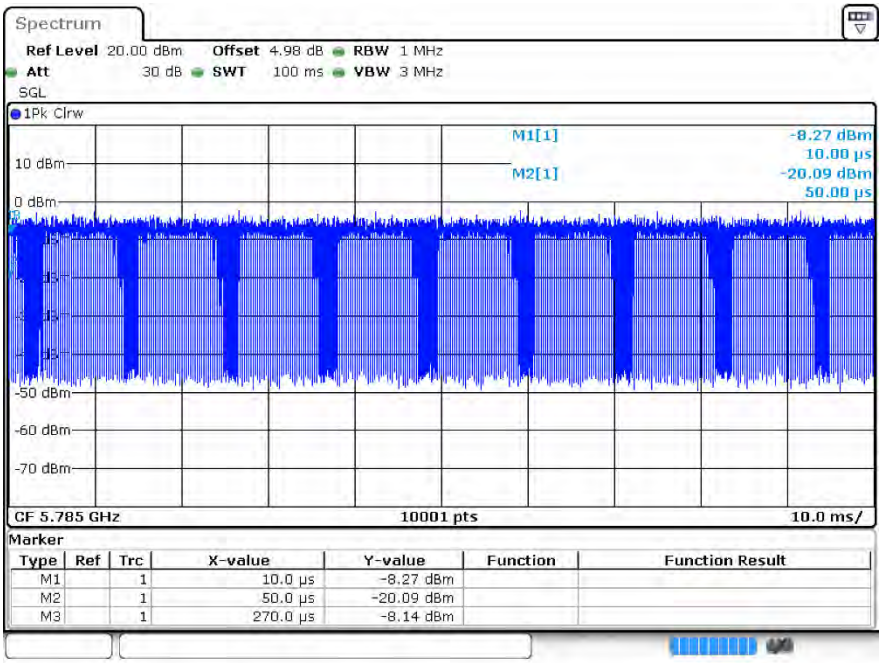
Duty Cycle a 5825MHz Ant1



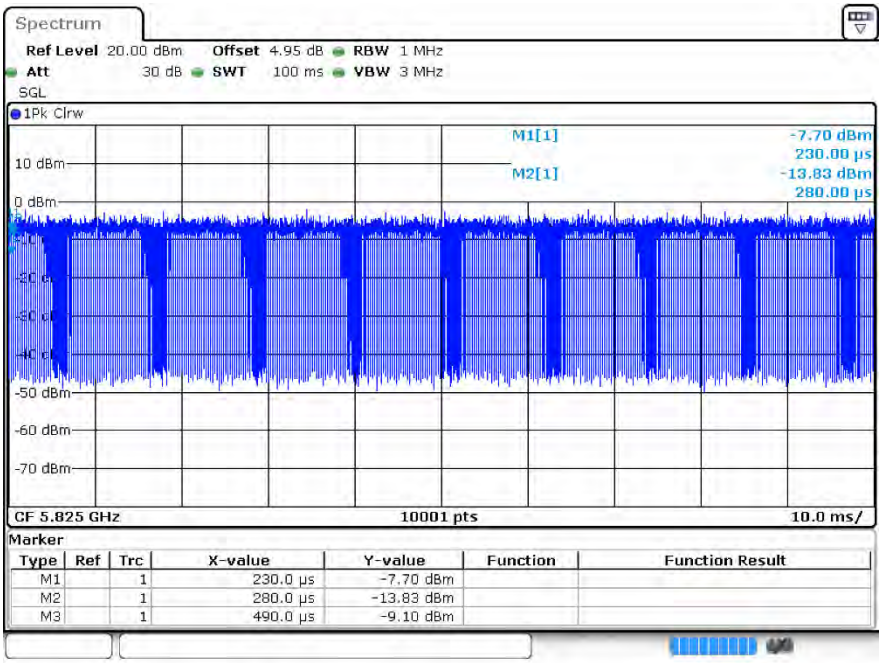
Duty Cycle a 5745MHz Ant2



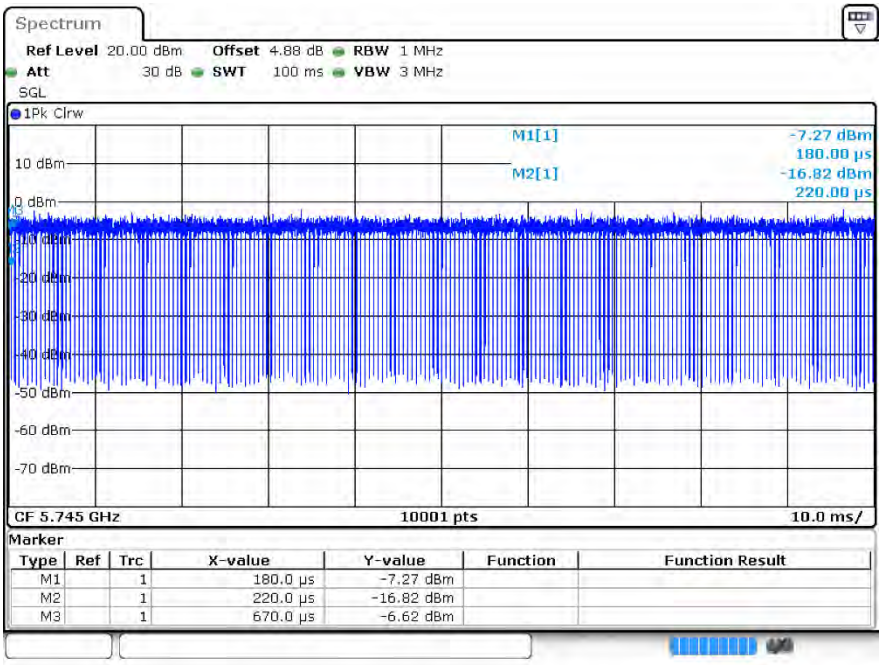
Duty Cycle a 5785MHz Ant2



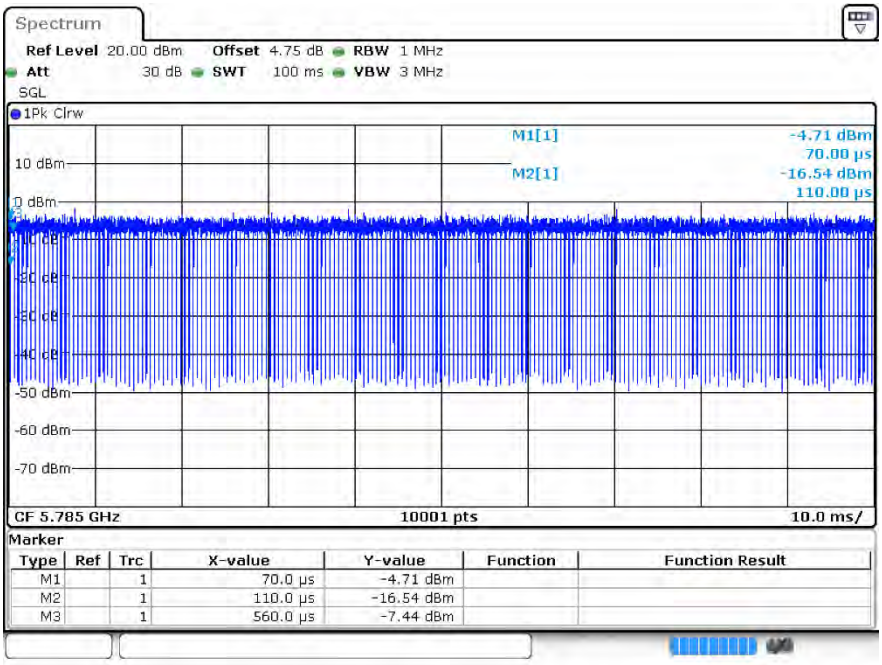
Duty Cycle a 5825MHz Ant2



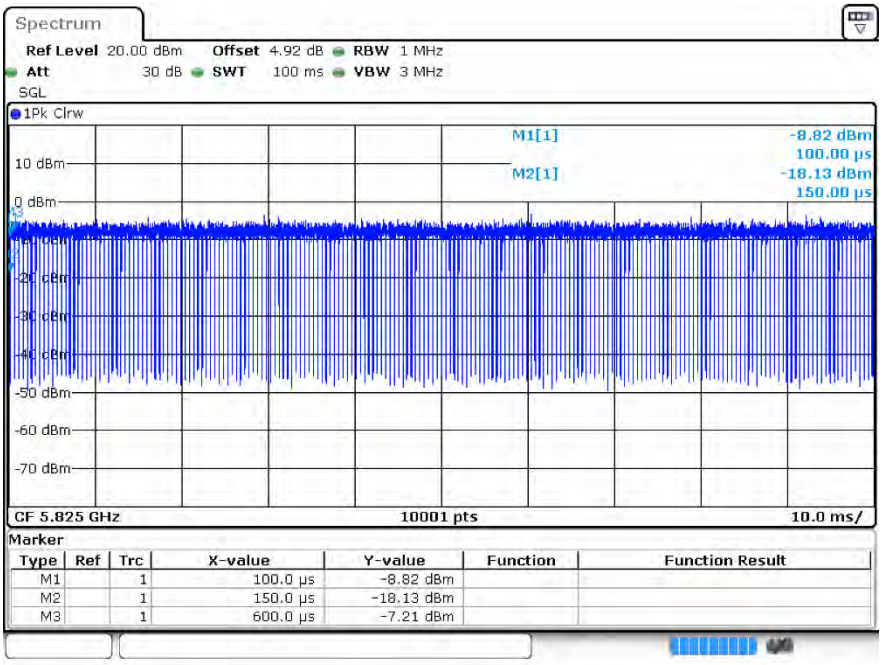
Duty Cycle n20 5745MHz Ant1



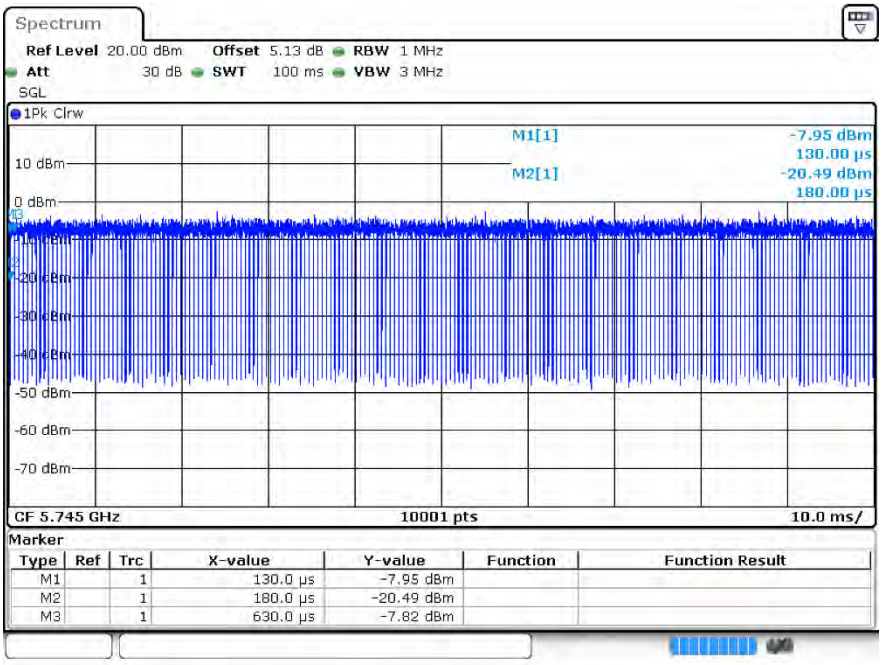
Duty Cycle n20 5785MHz Ant1



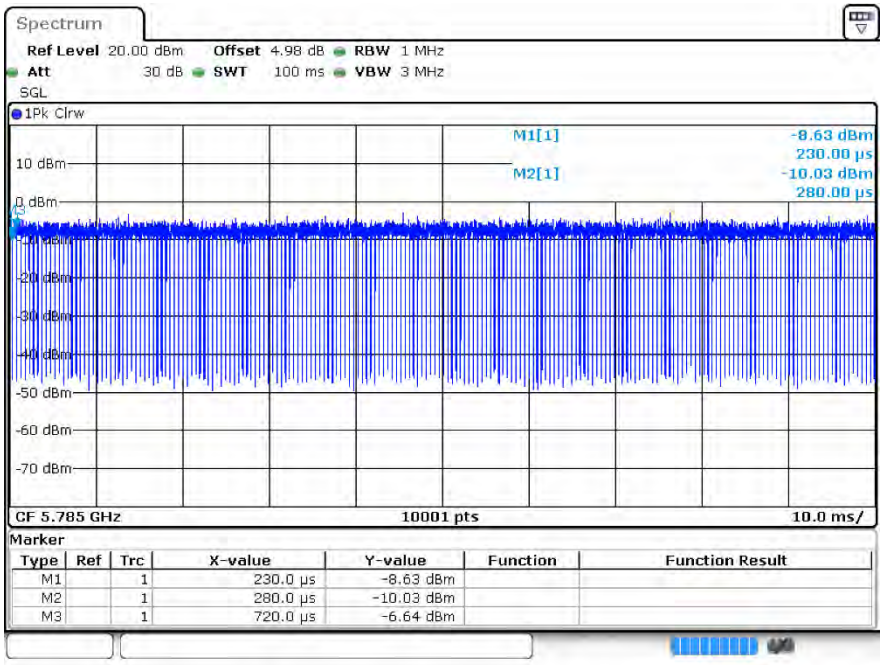
Duty Cycle n20 5825MHz Ant1



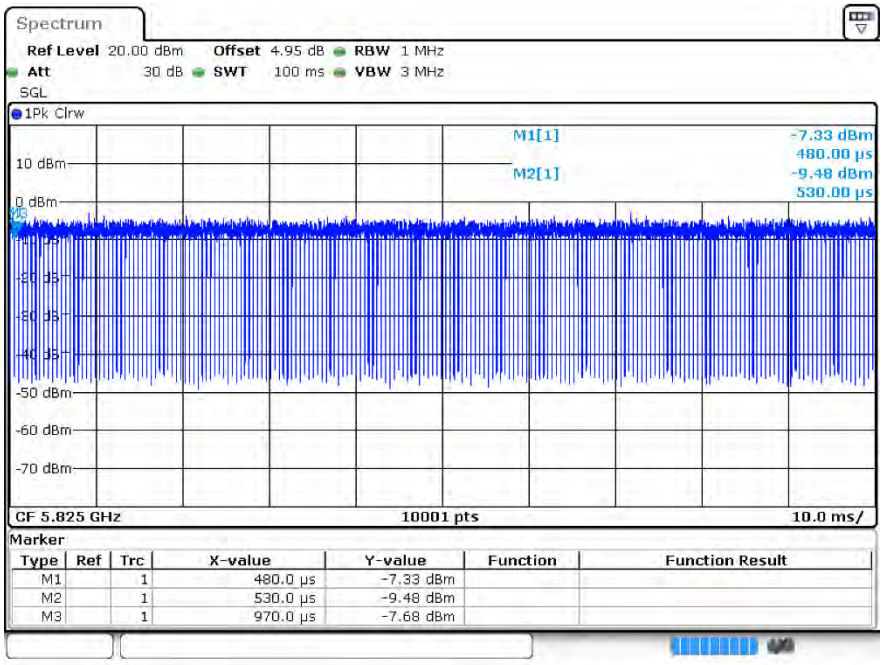
Duty Cycle n20 5745MHz Ant2



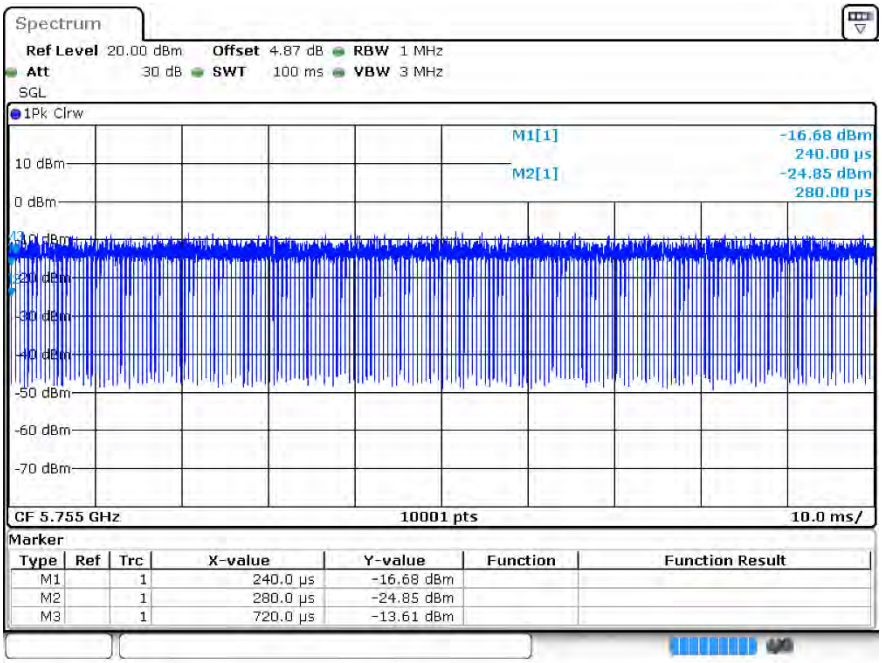
Duty Cycle n20 5785MHz Ant2



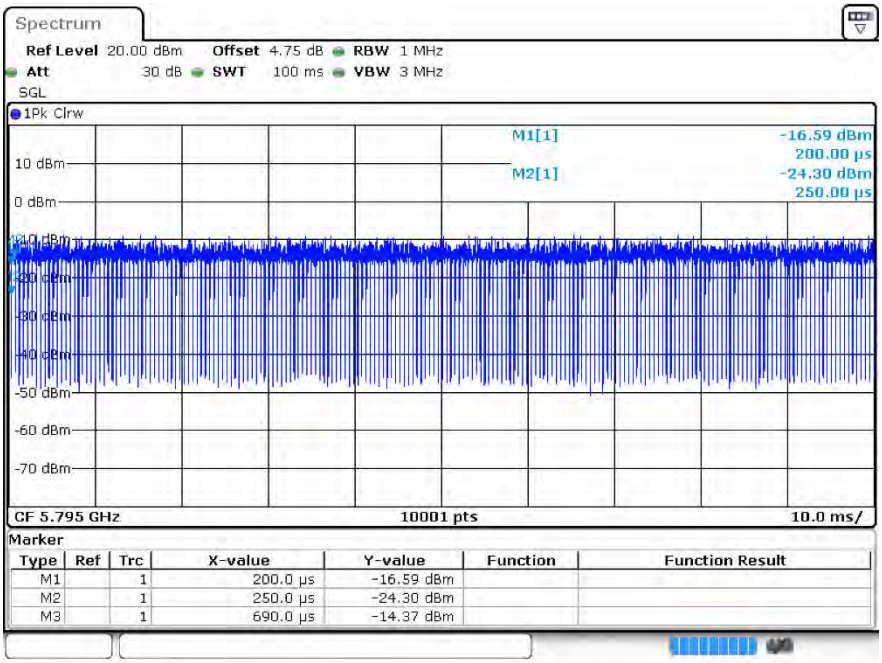
Duty Cycle n20 5825MHz Ant2



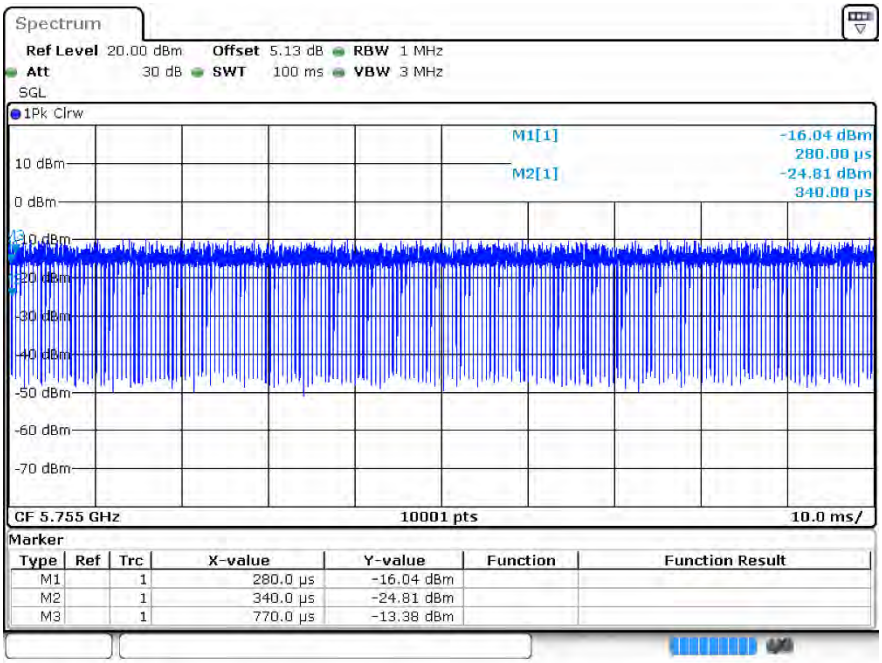
Duty Cycle n40 5755MHz Ant1



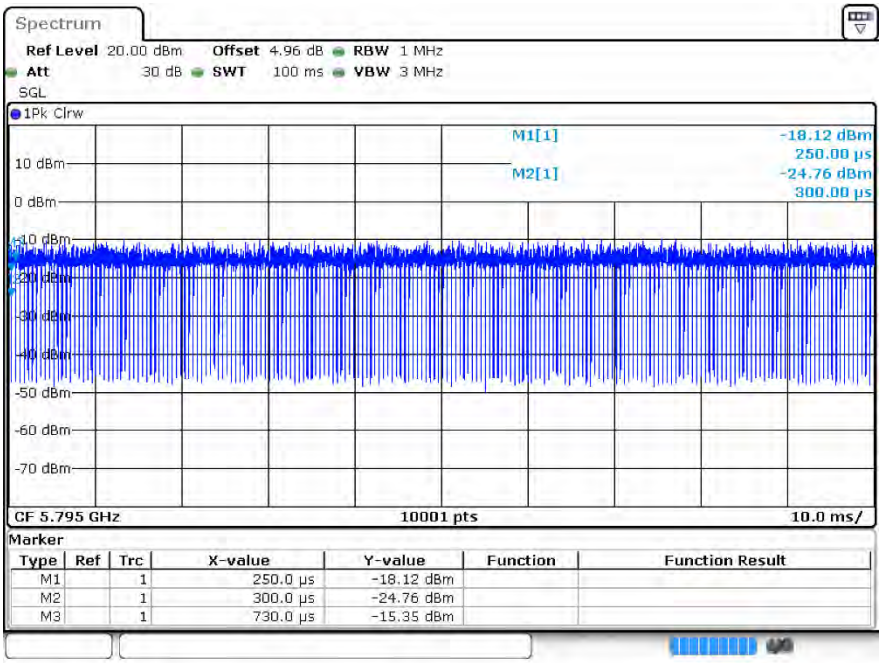
Duty Cycle n40 5795MHz Ant1



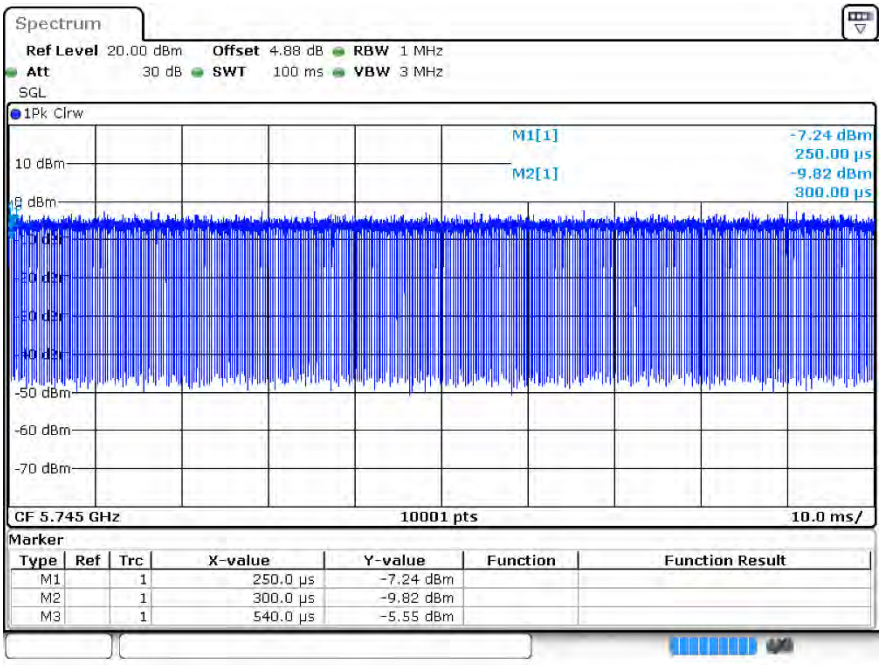
Duty Cycle n40 5755MHz Ant2



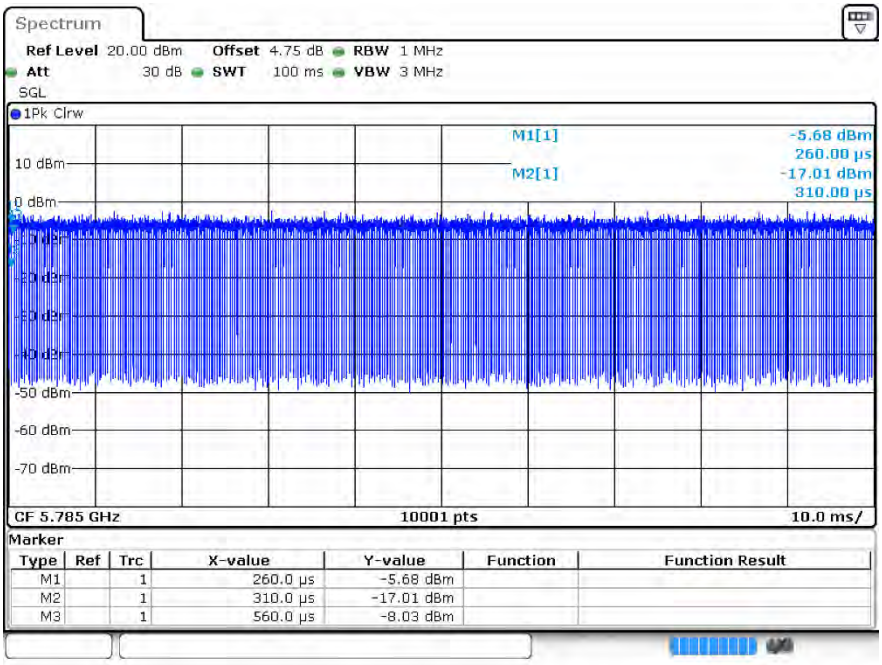
Duty Cycle n40 5795MHz Ant2



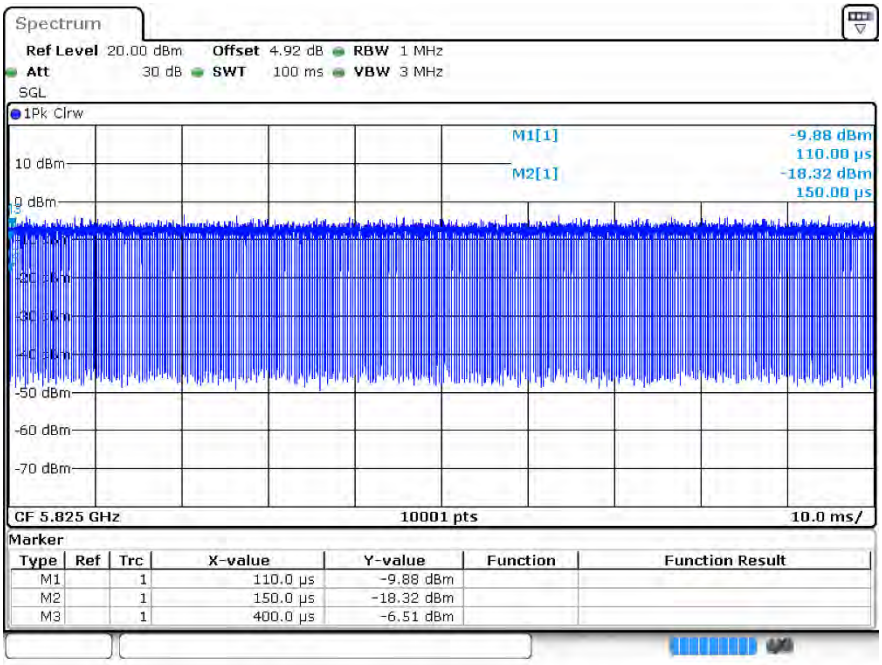
Duty Cycle ac20 5745MHz Ant1



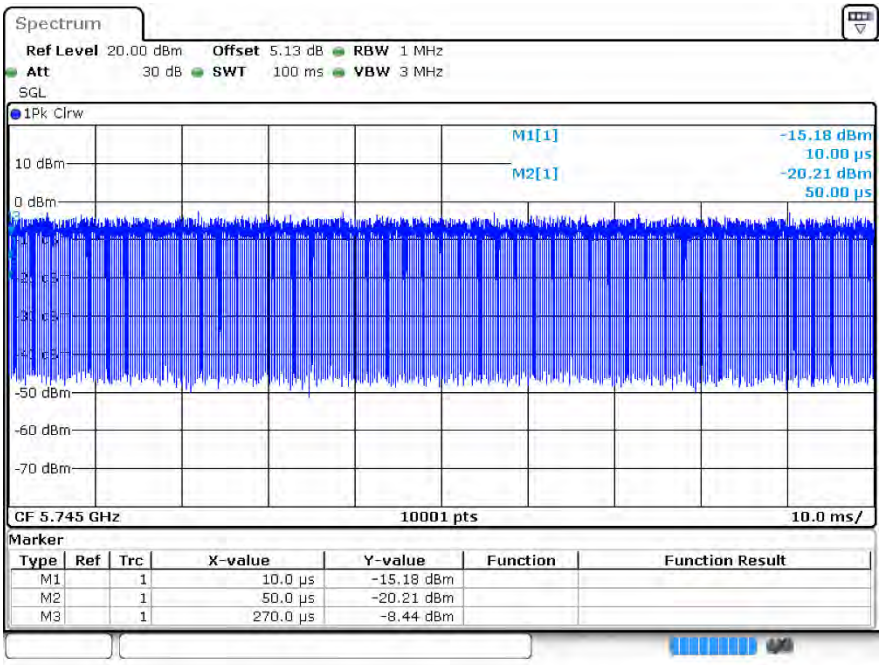
Duty Cycle ac20 5785MHz Ant1



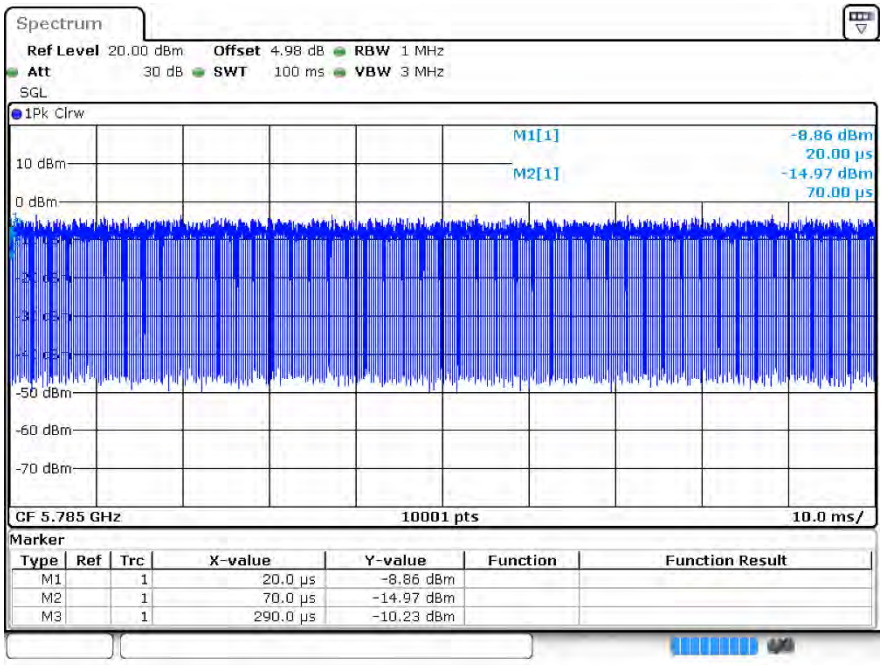
Duty Cycle ac20 5825MHz Ant1



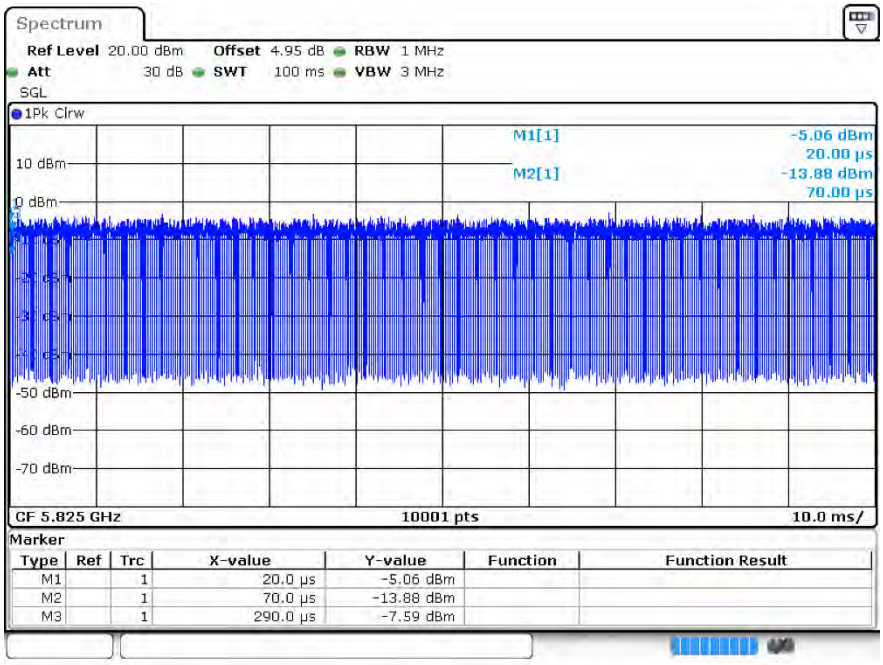
Duty Cycle ac20 5745MHz Ant2



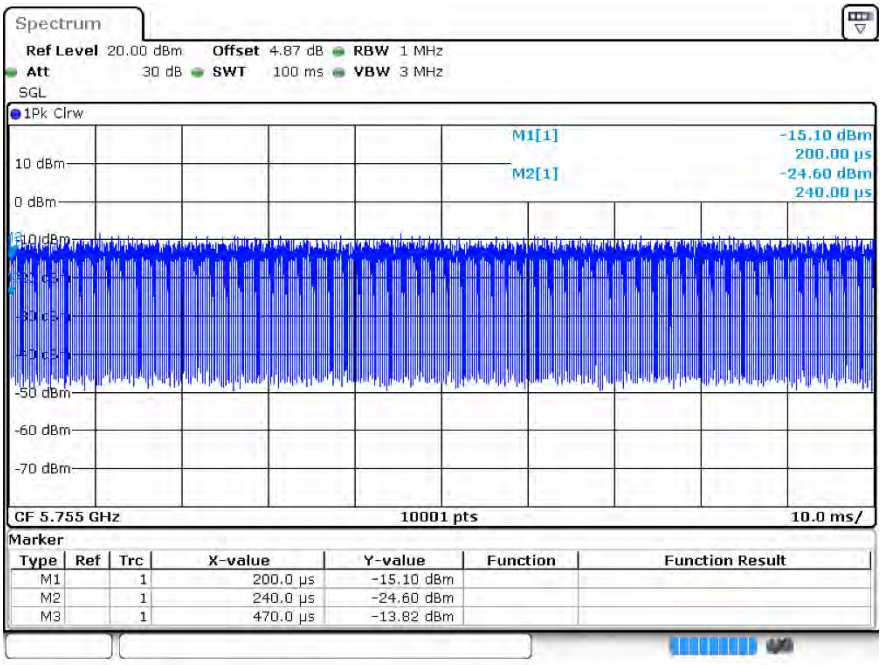
Duty Cycle ac20 5785MHz Ant2



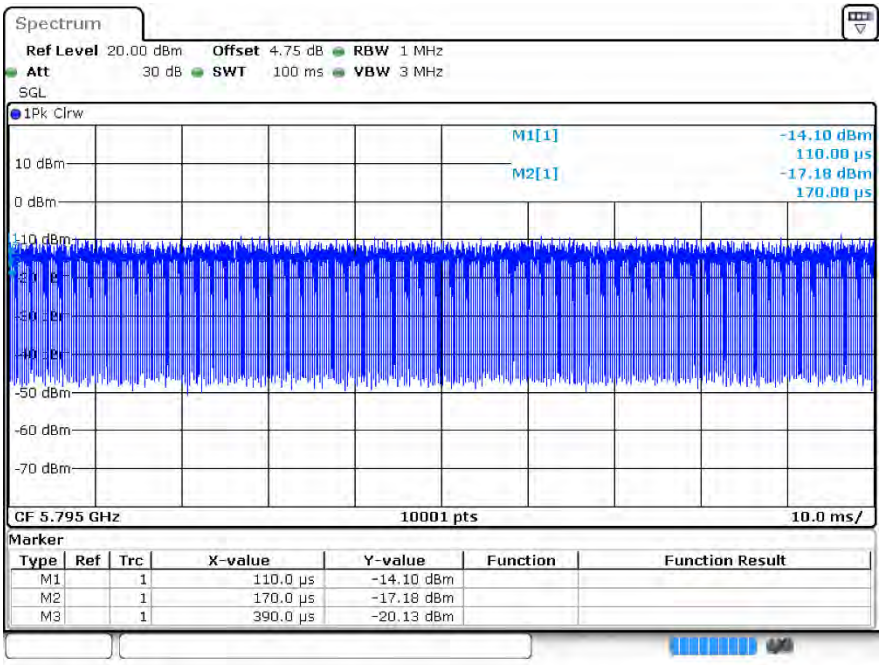
Duty Cycle ac20 5825MHz Ant2



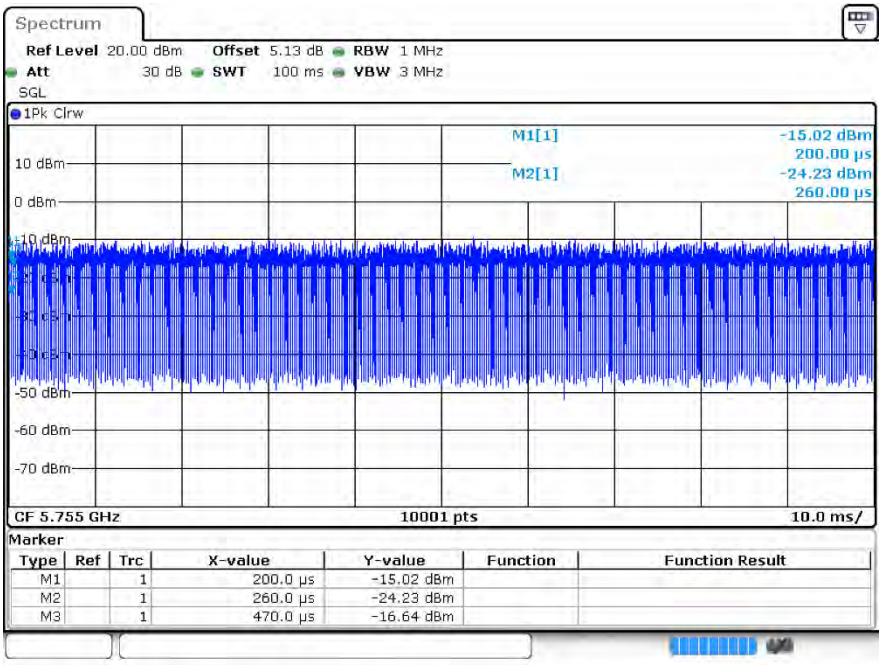
Duty Cycle ac40 5755MHz Ant1



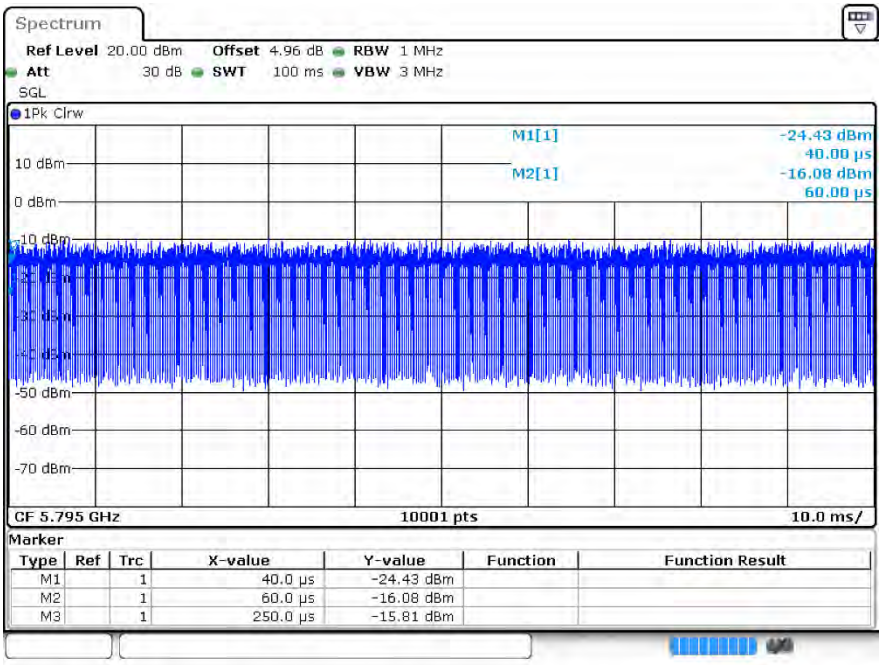
Duty Cycle ac40 5795MHz Ant1



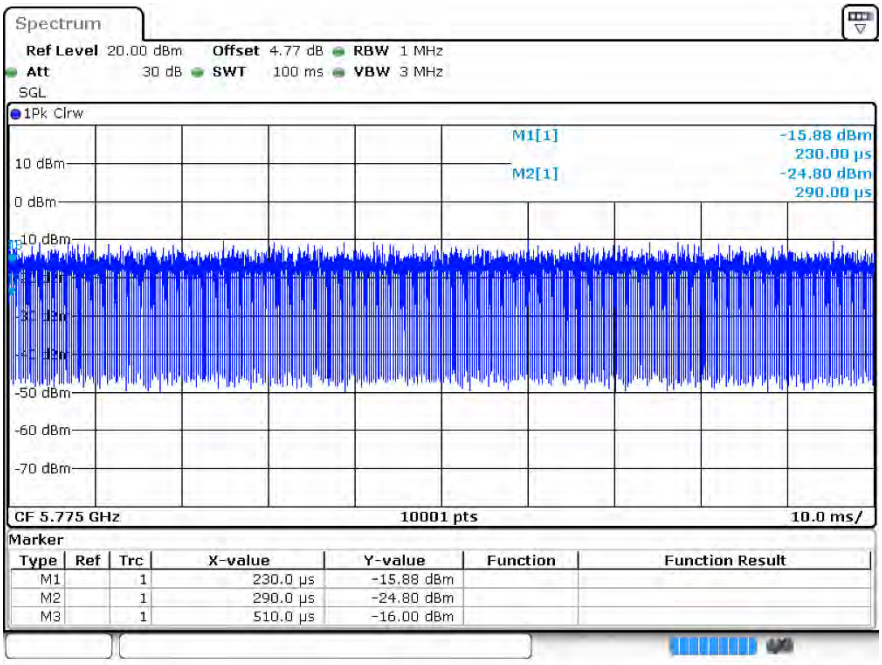
Duty Cycle ac40 5755MHz Ant2



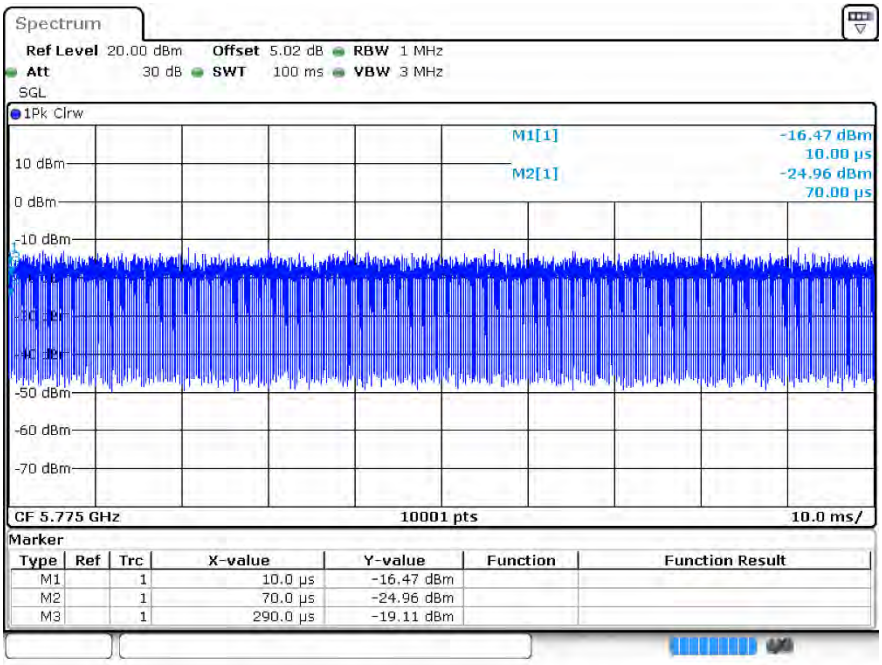
Duty Cycle ac40 5795MHz Ant2



Duty Cycle ac80 5775MHz Ant1



Duty Cycle ac80 5775MHz Ant2



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	3.53	0.61	4.14	30	Pass
a	5785	Ant1	3.7	0.61	4.31	30	Pass
a	5825	Ant1	2.49	0.61	3.1	30	Pass
a	5745	Ant2	3.71	0.61	4.32	30	Pass
a	5785	Ant2	2.86	0.61	3.47	30	Pass
a	5825	Ant2	3.33	0.61	3.94	30	Pass
n20	5745	Ant1	3.75	0.32	4.07	30	Pass
n20	5785	Ant1	3.7	0.32	4.02	30	Pass
n20	5825	Ant1	2.46	0.32	2.78	30	Pass
n20	5745	Ant2	3.18	0.32	3.5	30	Pass
n20	5785	Ant2	2.61	0.32	2.93	30	Pass
n20	5825	Ant2	2.98	0.32	3.3	30	Pass
n40	5755	Ant1	3.61	0.34	3.95	30	Pass
n40	5795	Ant1	3.03	0.42	3.45	30	Pass
n40	5755	Ant2	2.4	0.41	2.81	30	Pass
n40	5795	Ant2	2.12	0.41	2.53	30	Pass
ac20	5745	Ant1	3.71	0.55	4.26	30	Pass
ac20	5785	Ant1	3.63	0.55	4.18	30	Pass
ac20	5825	Ant1	2.38	0.55	2.93	30	Pass
ac20	5745	Ant2	3.26	0.6	3.86	30	Pass
ac20	5785	Ant2	2.72	0.6	3.32	30	Pass
ac20	5825	Ant2	3.09	0.6	3.69	30	Pass
ac40	5755	Ant1	3.37	0.62	3.99	30	Pass
ac40	5795	Ant1	2.7	0.69	3.39	30	Pass
ac40	5755	Ant2	2.22	0.83	3.05	30	Pass
ac40	5795	Ant2	1.99	0.9	2.89	30	Pass
ac80	5775	Ant1	2.69	0.97	3.66	30	Pass
ac80	5775	Ant2	1.99	1	2.99	30	Pass

3 -6dB Bandwidth

3.1 Test Result

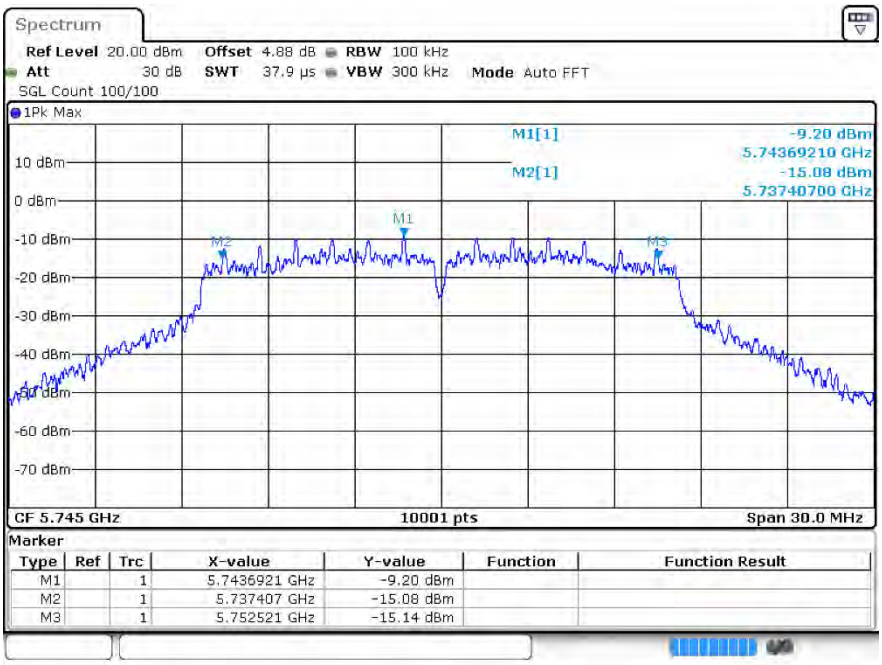
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	15.114	0.5	Pass
a	5785	Ant1	15.123	0.5	Pass
a	5825	Ant1	15.126	0.5	Pass
n20	5745	Ant1	17.523	0.5	Pass
n20	5785	Ant1	15.678	0.5	Pass
n20	5825	Ant1	15.069	0.5	Pass
n40	5755	Ant1	30.684	0.5	Pass
n40	5795	Ant1	35.676	0.5	Pass
ac20	5745	Ant1	15.108	0.5	Pass
ac20	5785	Ant1	15.684	0.5	Pass
ac20	5825	Ant1	12.888	0.5	Pass
ac40	5755	Ant1	35.082	0.5	Pass
ac40	5795	Ant1	35.046	0.5	Pass
ac80	5775	Ant1	72.54	0.5	Pass

Remark:

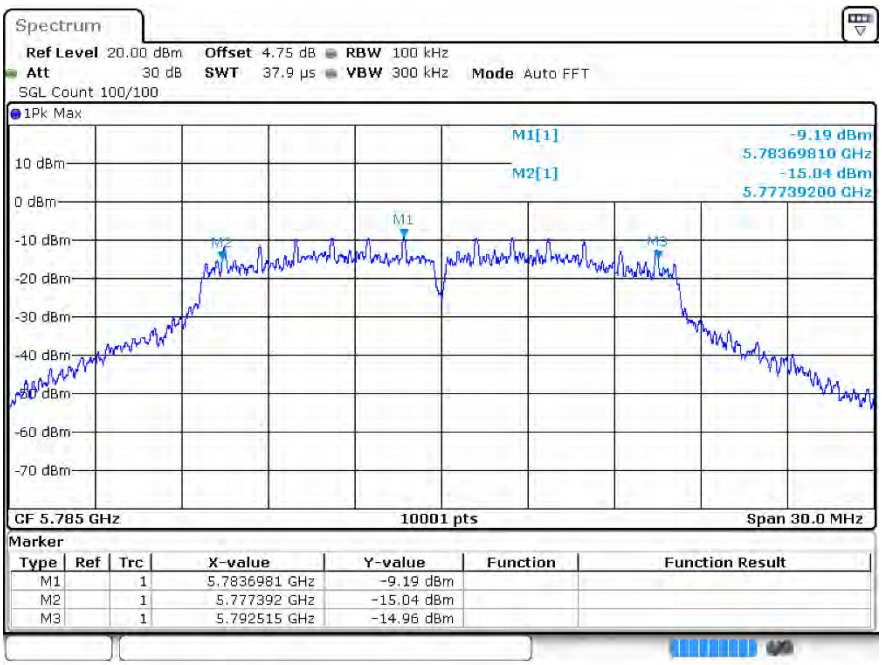
Ant1 and Ant2 have been tested, found worst case is Ant1, only record the worst case results in this report.

3.2 Test Graphs

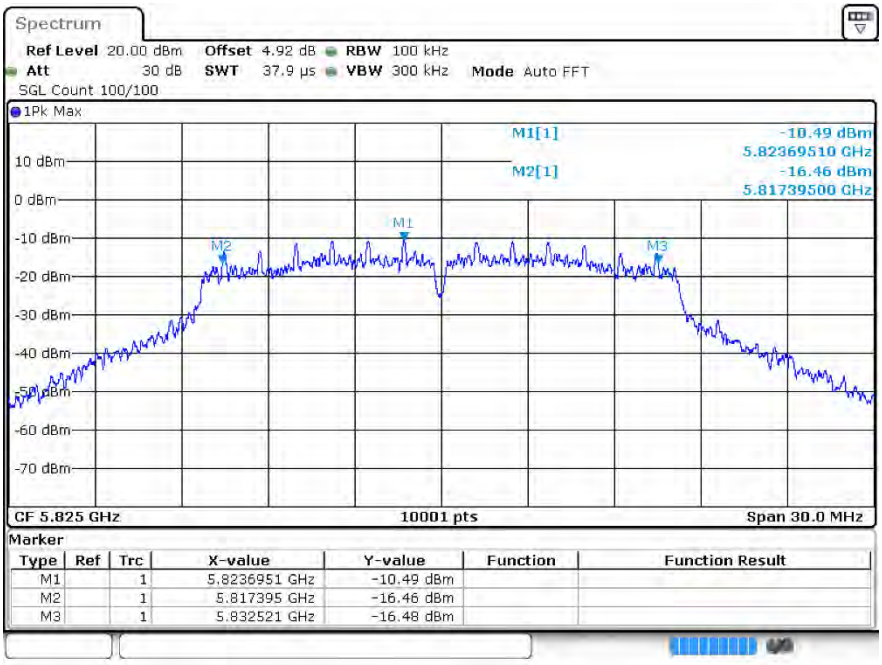
Test Graphs
-6dB Bandwidth a 5745MHz Ant1



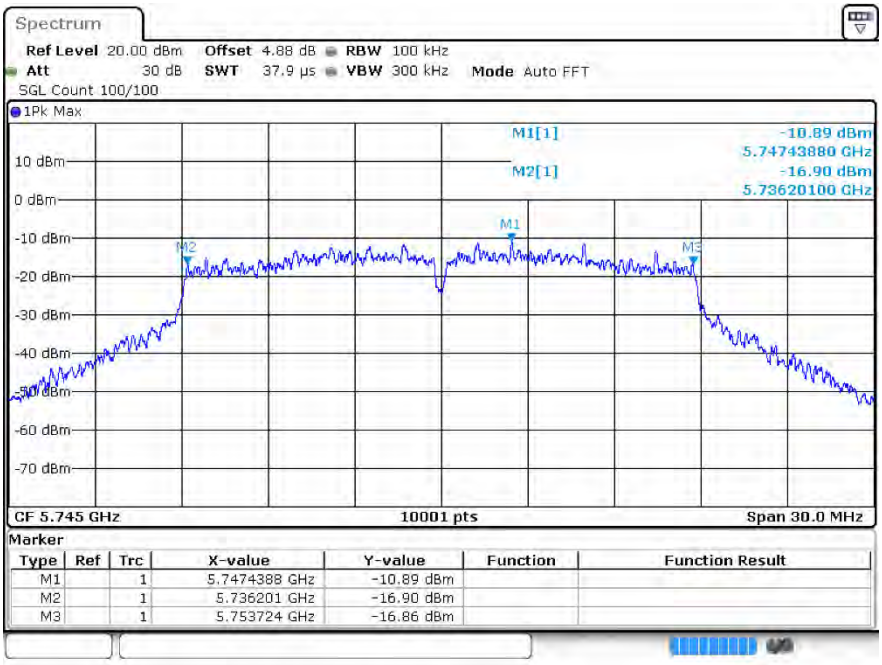
-6dB Bandwidth a 5785MHz Ant1



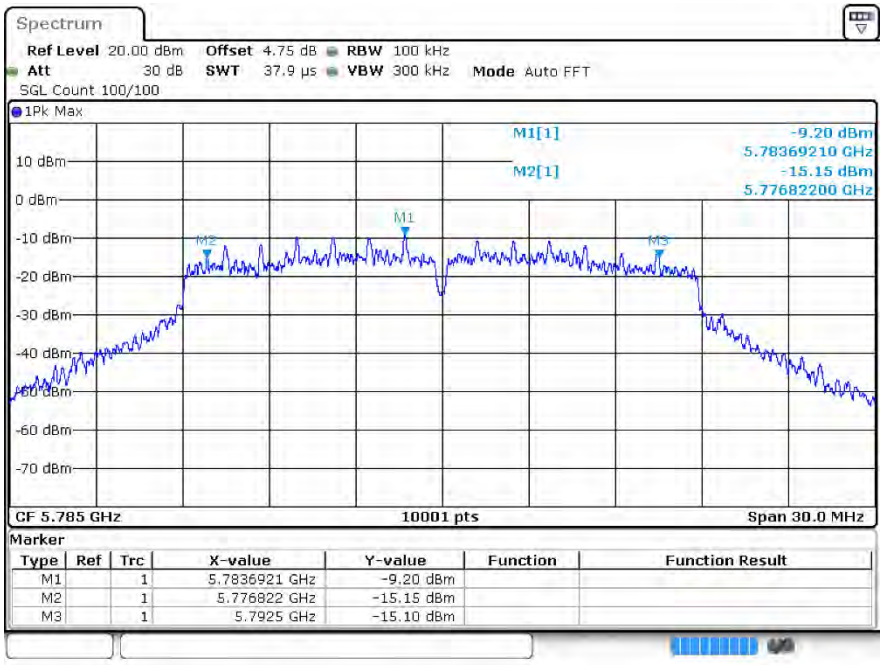
-6dB Bandwidth a 5825MHz Ant1



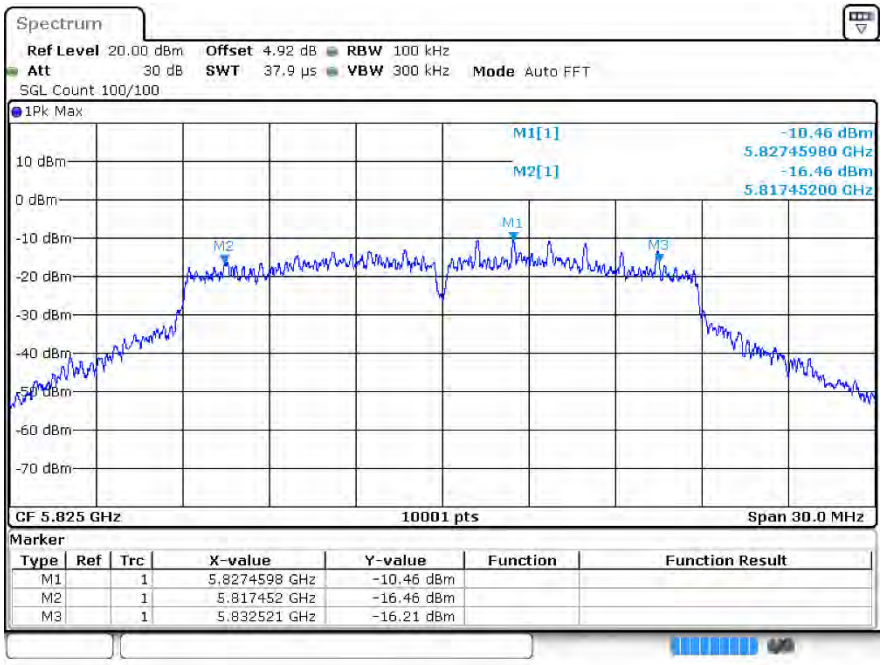
-6dB Bandwidth n20 5745MHz Ant1



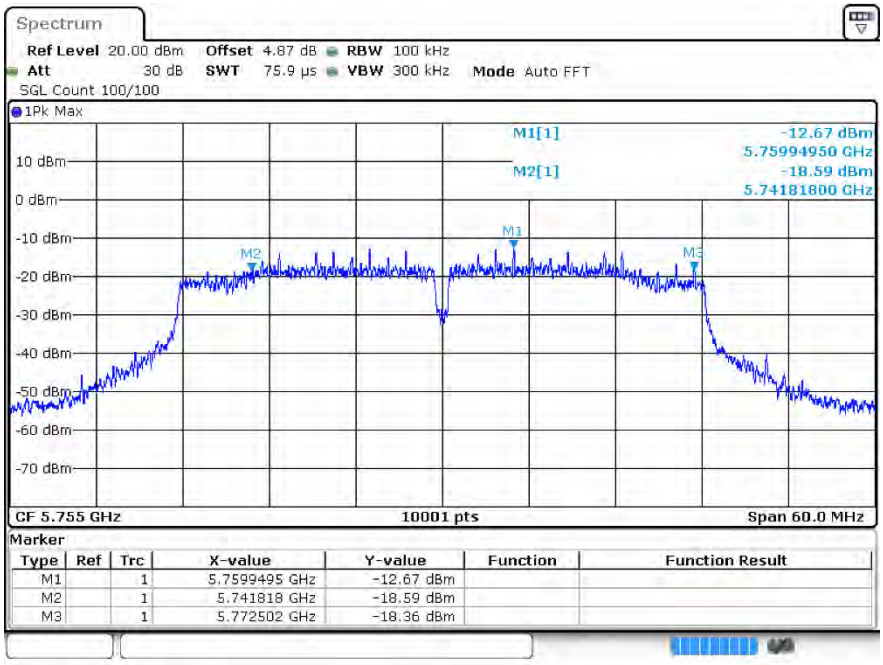
-6dB Bandwidth n20 5785MHz Ant1



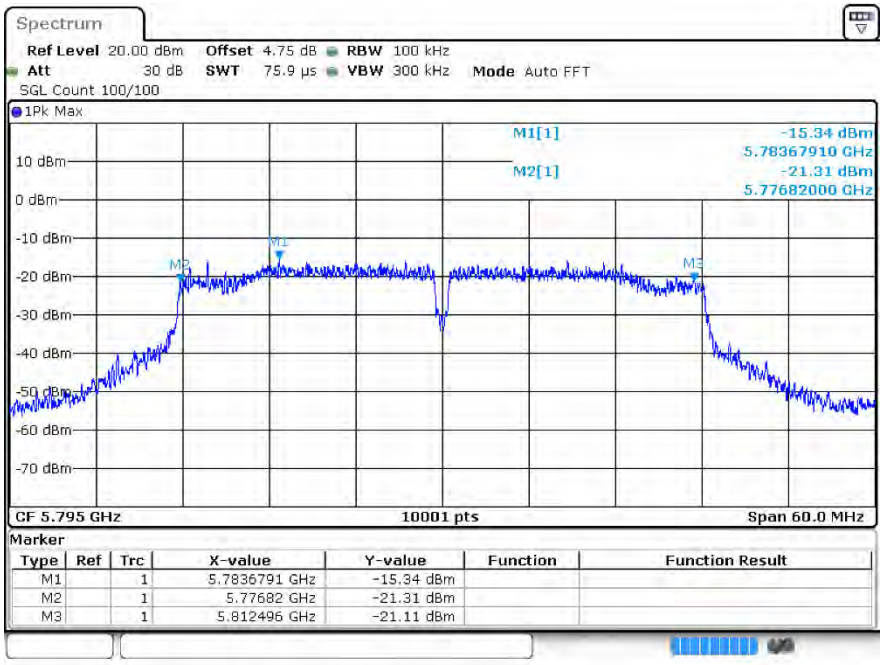
-6dB Bandwidth n20 5825MHz Ant1



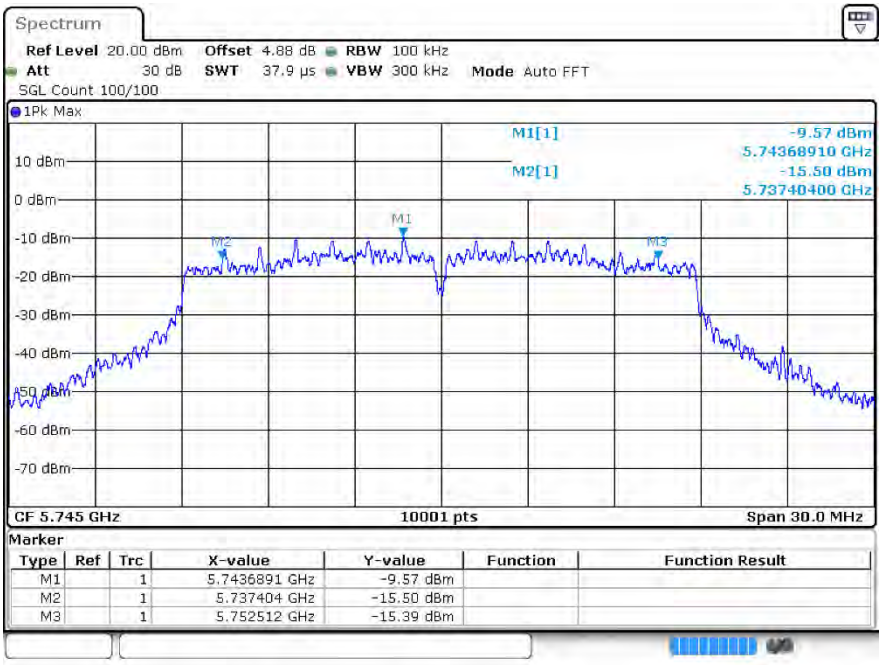
-6dB Bandwidth n40 5755MHz Ant1



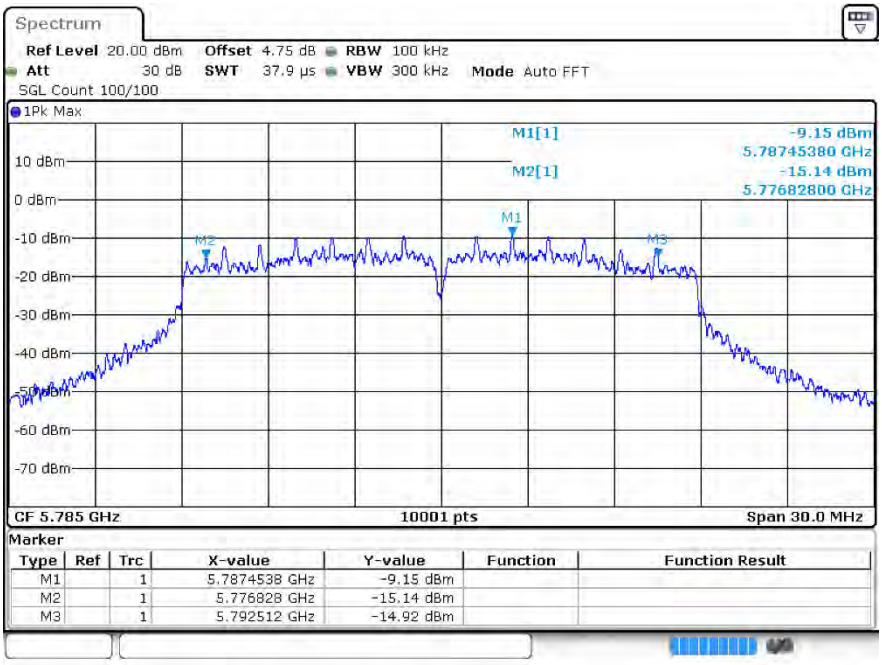
-6dB Bandwidth n40 5795MHz Ant1



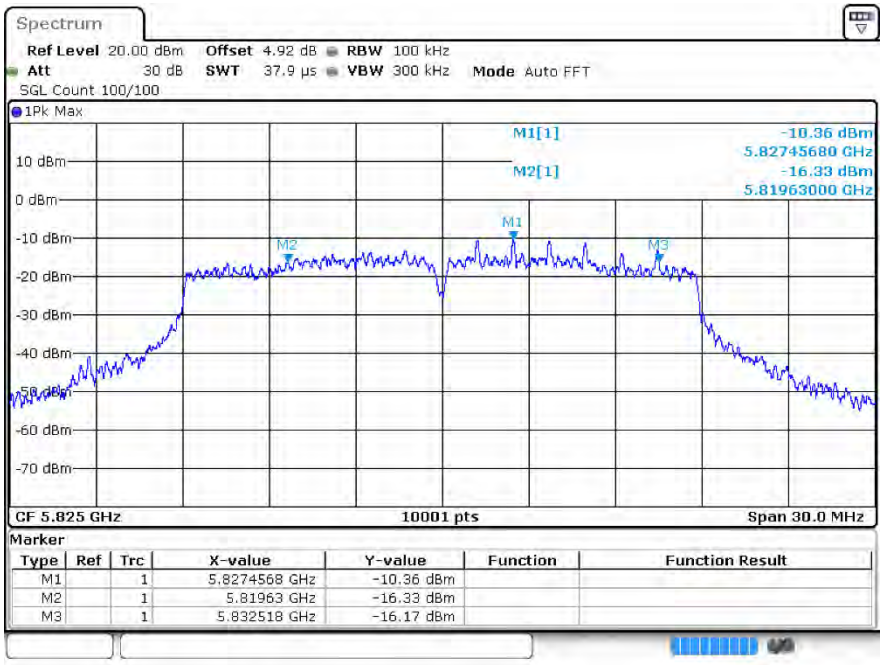
-6dB Bandwidth ac20 5745MHz Ant1



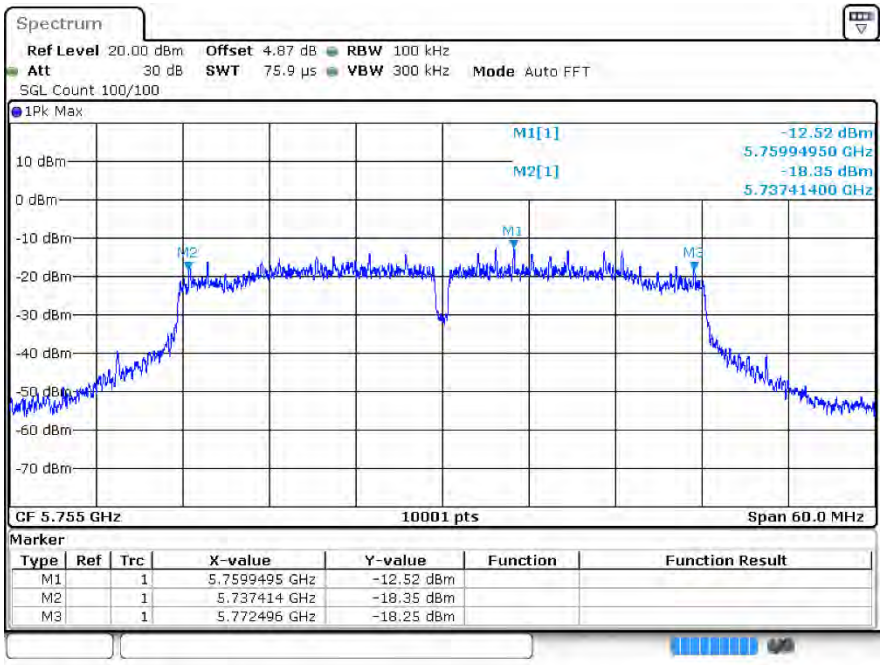
-6dB Bandwidth ac20 5785MHz Ant1



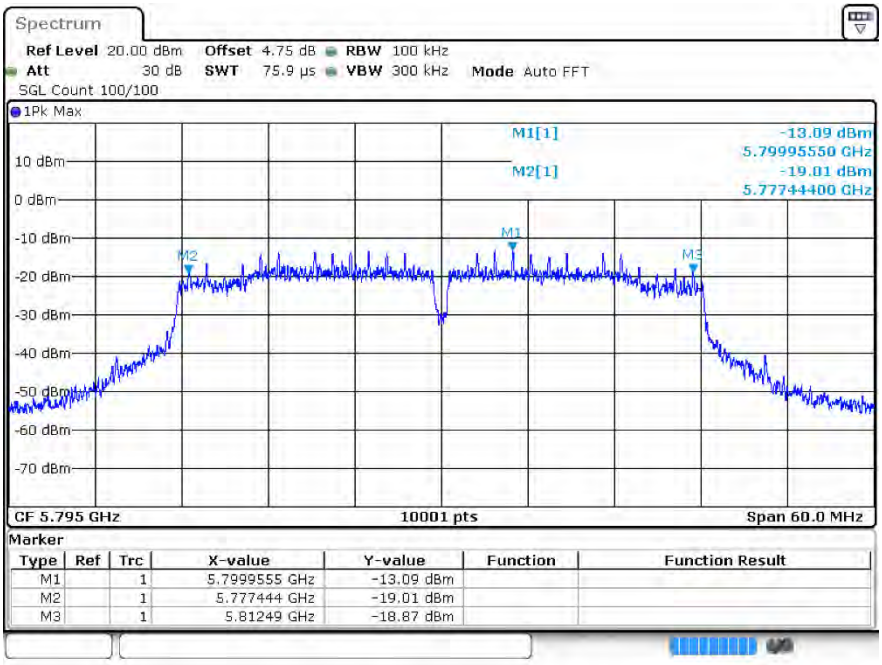
-6dB Bandwidth ac20 5825MHz Ant1



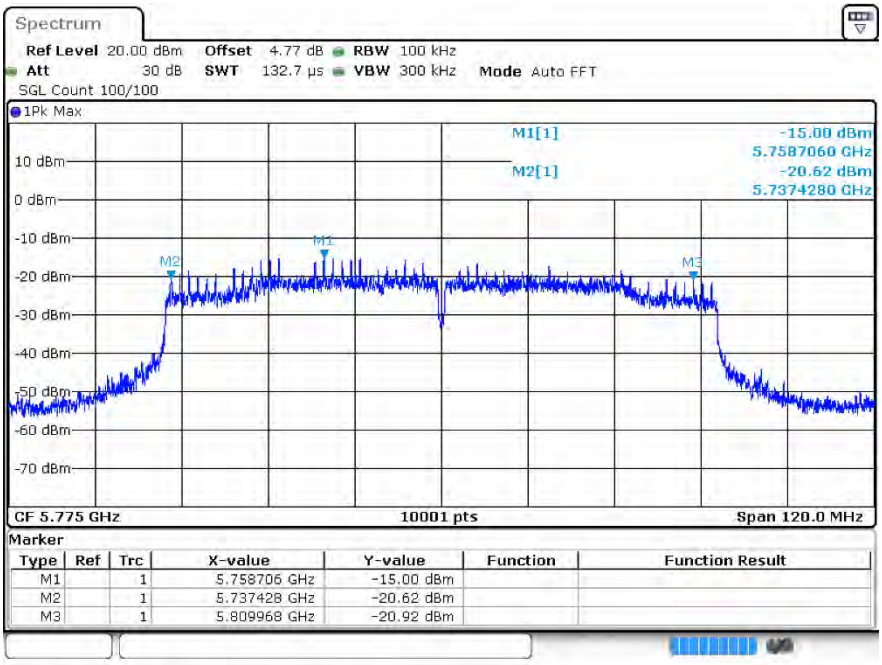
-6dB Bandwidth ac40 5755MHz Ant1



-6dB Bandwidth ac40 5795MHz Ant1



-6dB Bandwidth ac80 5775MHz Ant1



4 Occupied Channel Bandwidth

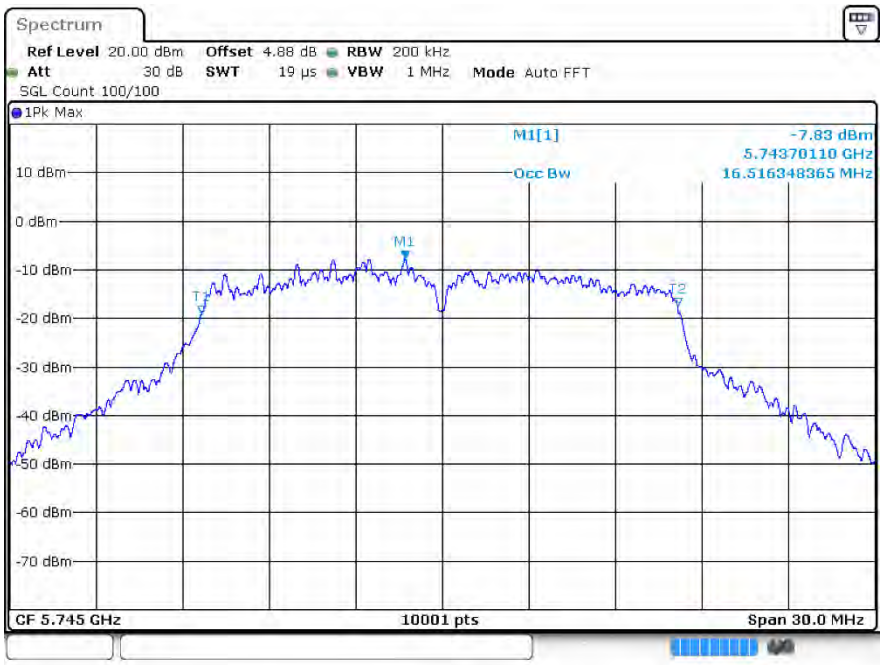
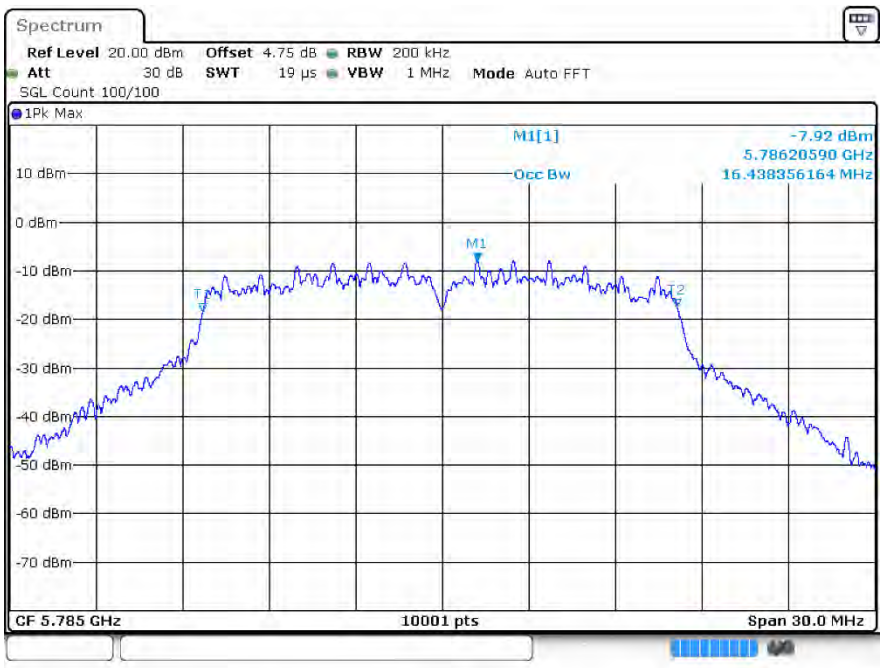
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5745	Ant1	16.516
a	5785	Ant1	16.438
a	5825	Ant1	16.501
n20	5745	Ant1	17.662
n20	5785	Ant1	17.626
n20	5825	Ant1	17.647
n40	5755	Ant1	36.008
n40	5795	Ant1	36.164
ac20	5745	Ant1	17.56
ac20	5785	Ant1	17.452
ac20	5825	Ant1	17.518
ac40	5755	Ant1	35.912
ac40	5795	Ant1	35.948
ac80	5775	Ant1	75.1

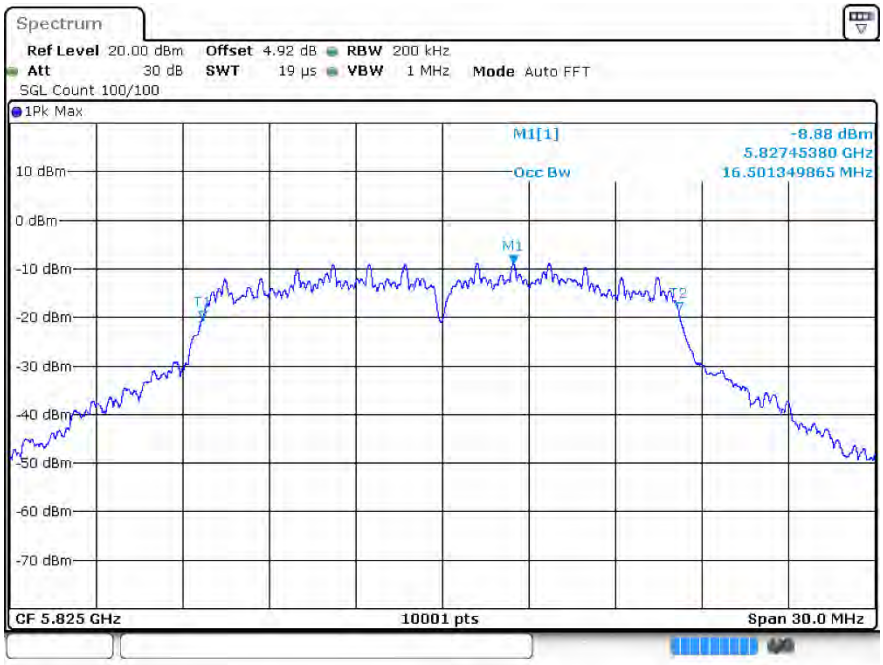
Remark:

Ant1 and Ant2 have been tested, found worst case is Ant1, only record the worst case results in this report.

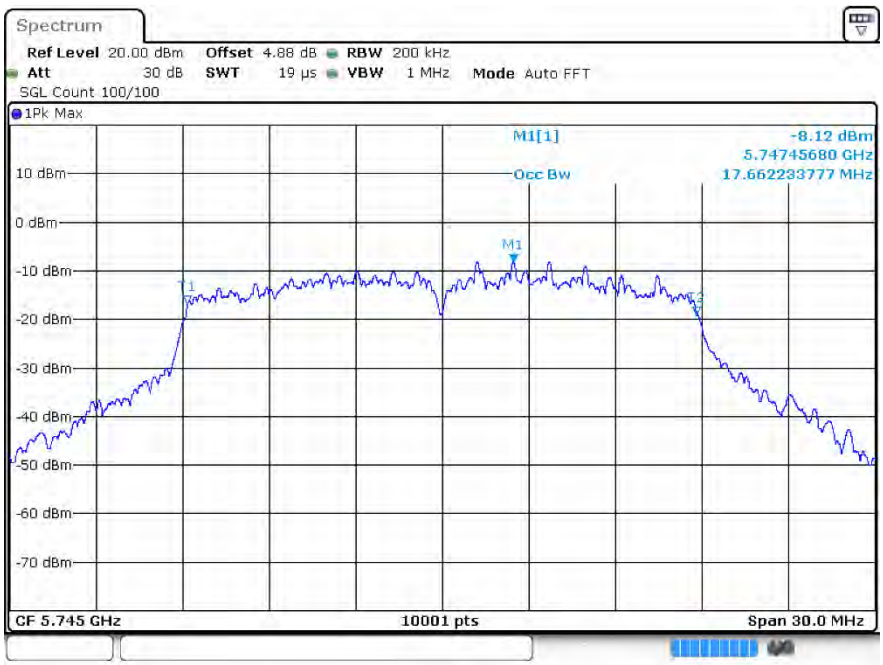
4.2 Test Graphs

Test Graphs
OBW a 5745MHz Ant1

OBW a 5785MHz Ant1


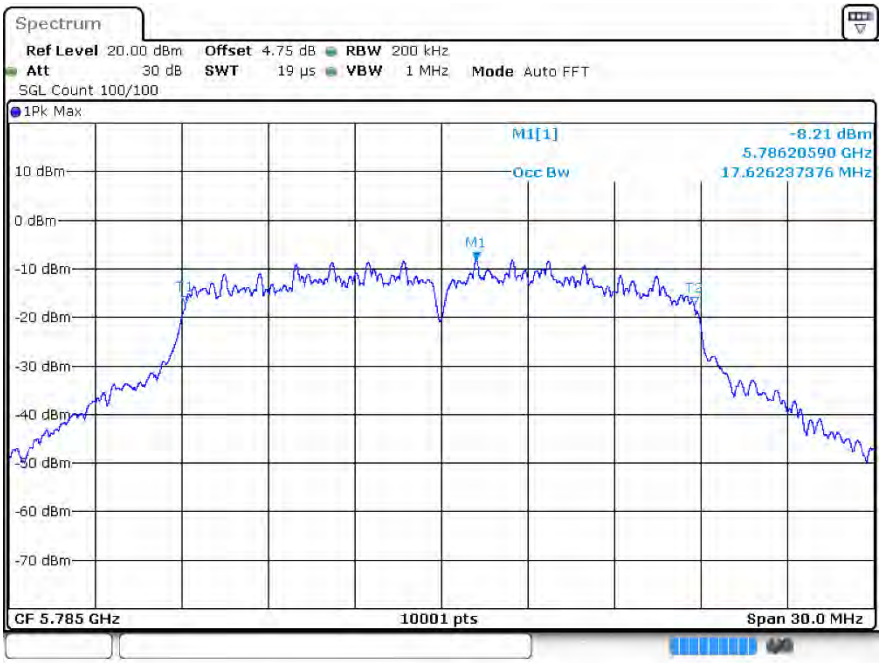
OBW a 5825MHz Ant1



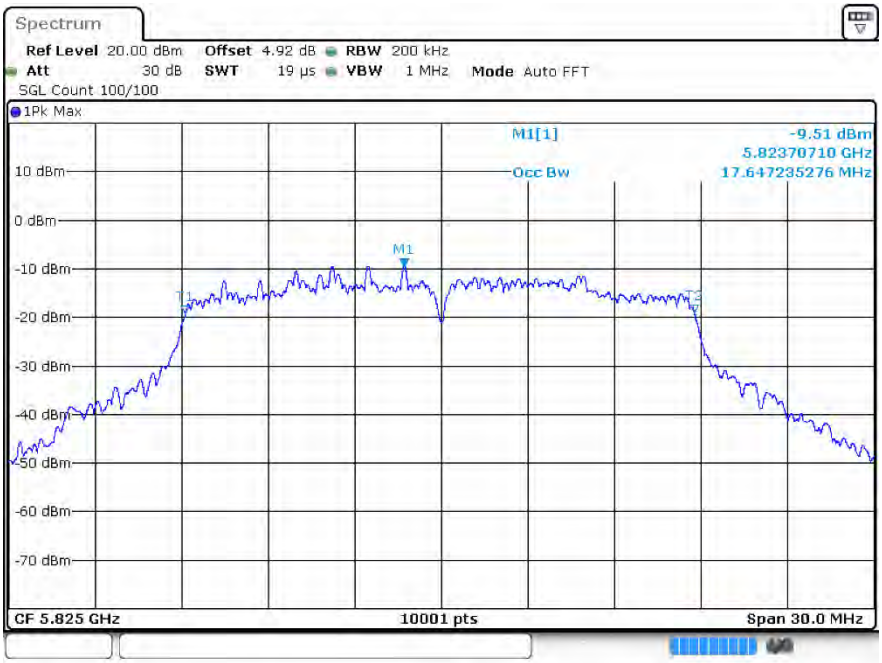
OBW n20 5745MHz Ant1



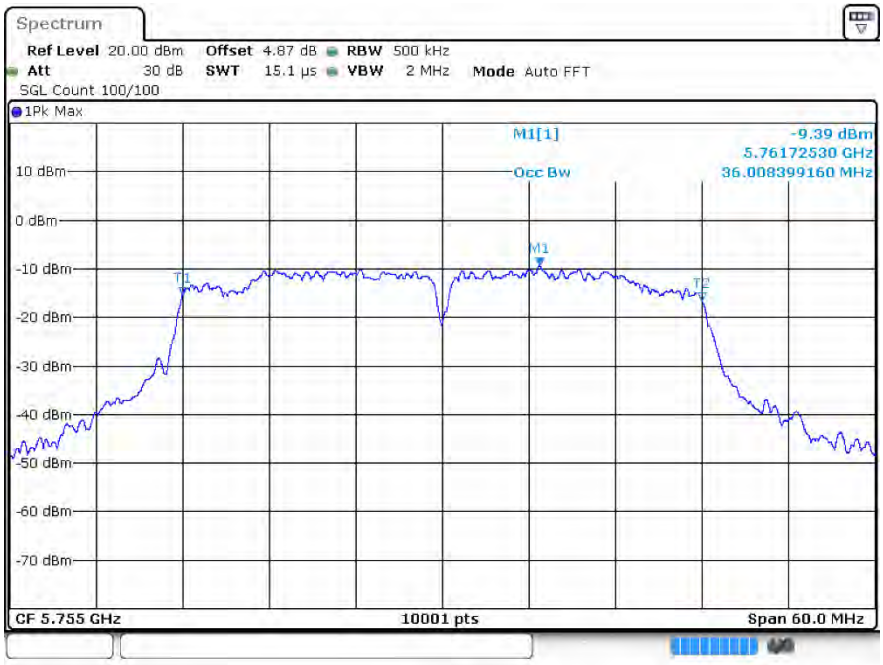
OBW n20 5785MHz Ant1



OBW n20 5825MHz Ant1

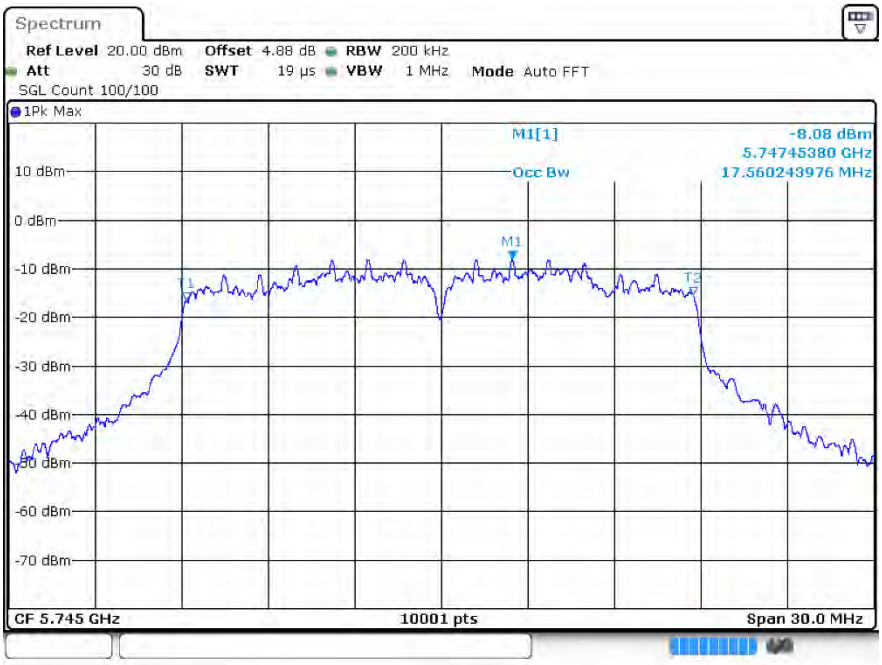


OBW n40 5755MHz Ant1

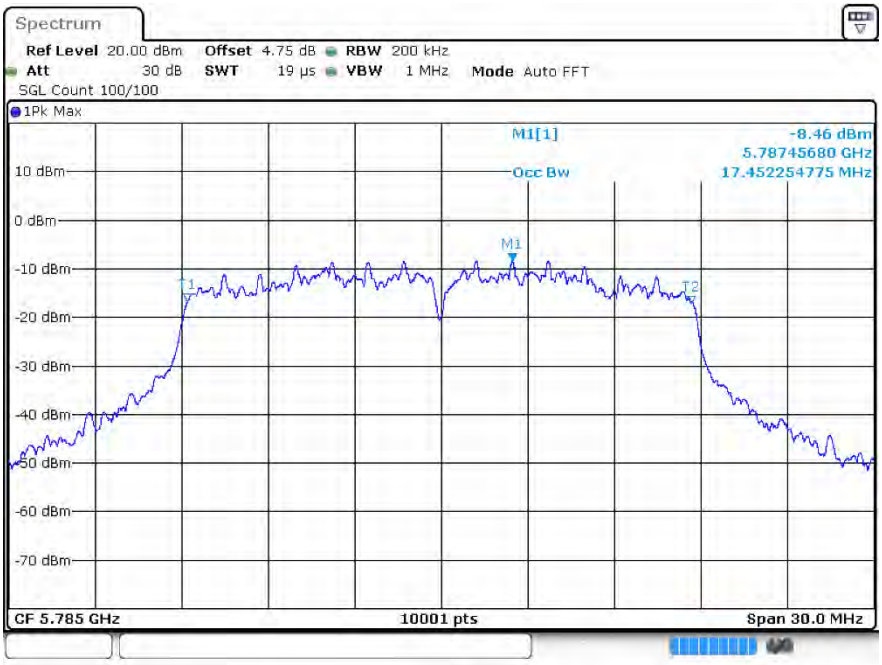


OBW n40 5795MHz Ant1

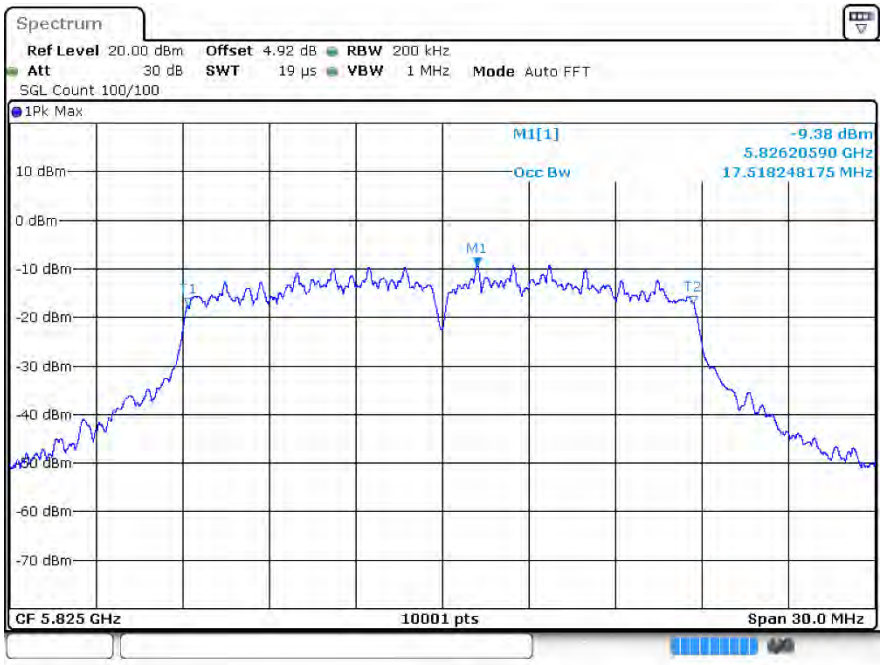
OBW ac20 5745MHz Ant1



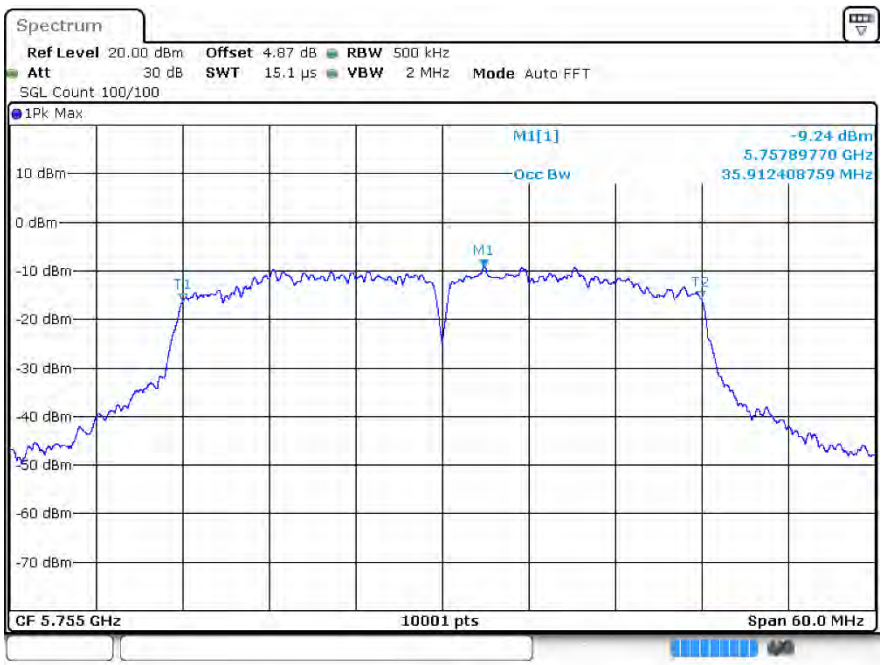
OBW ac20 5785MHz Ant1



OBW ac20 5825MHz Ant1

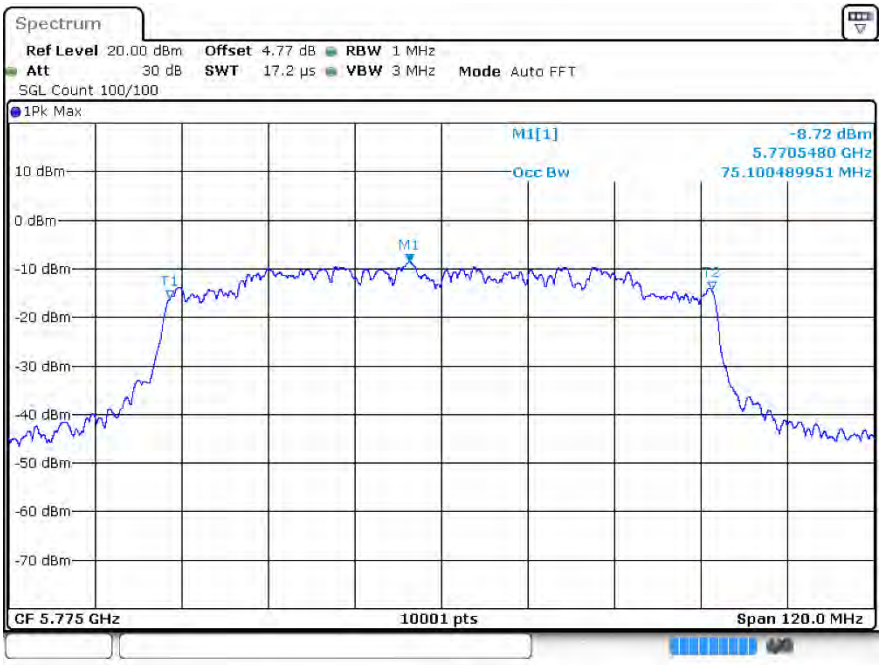


OBW ac40 5755MHz Ant1



OBW ac40 5795MHz Ant1

OBW ac80 5775MHz Ant1

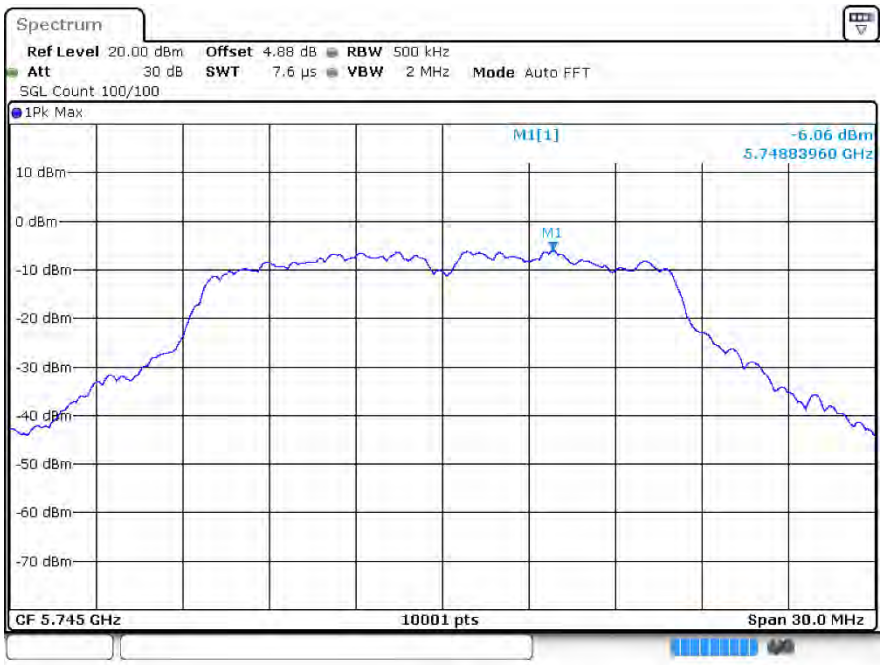


5 Maximum Power Spectral Density Level

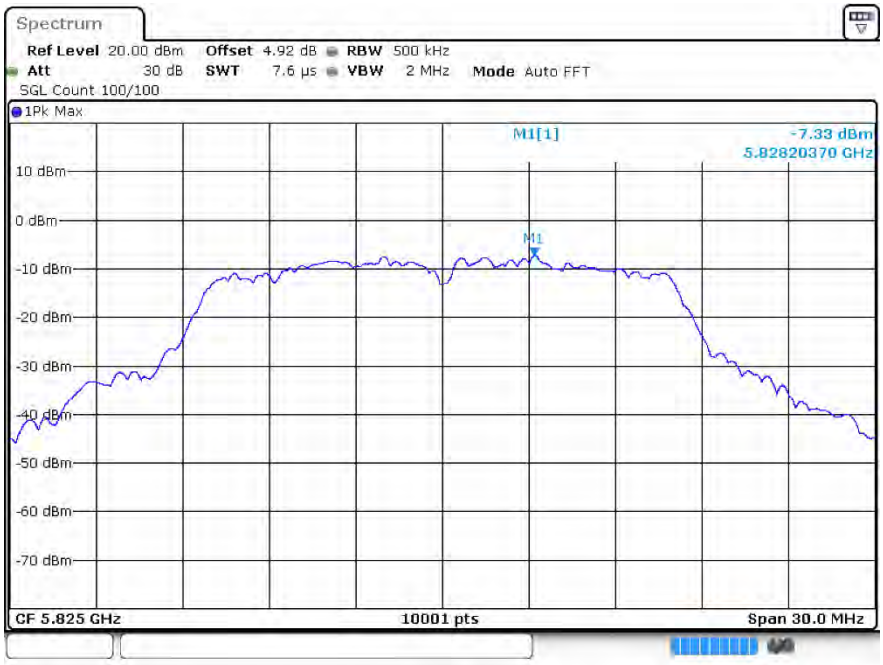
5.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	-6.06	0.61	-5.45	30	Pass
a	5785	Ant1	-5.21	0.61	-4.6	30	Pass
a	5825	Ant1	-7.33	0.61	-6.72	30	Pass
a	5745	Ant2	-5.32	0.61	-4.71	30	Pass
a	5785	Ant2	-6.44	0.61	-5.83	30	Pass
a	5825	Ant2	-6	0.61	-5.39	30	Pass
n20	5745	Ant1	-6.44	0.32	-6.12	30	Pass
n20	5745	Ant2	-6.41	0.32	-6.09	30	Pass
n20	5785	Ant1	-5.18	0.32	-4.86	30	Pass
n20	5785	Ant2	-7.59	0.32	-7.27	30	Pass
n20	5825	Ant1	-7.49	0.32	-7.17	30	Pass
n20	5825	Ant2	-7.33	0.32	-7.01	30	Pass
n40	5755	Ant1	-9.01	0.34	-8.67	30	Pass
n40	5755	Ant2	-10.35	0.42	-9.93	30	Pass
n40	5795	Ant1	-9.84	0.41	-9.43	30	Pass
n40	5795	Ant2	-10.44	0.41	-10.03	30	Pass
ac20	5745	Ant1	-5.74	0.55	-5.19	30	Pass
ac20	5745	Ant2	-4.37	0.55	-3.82	30	Pass
ac20	5785	Ant1	-5.46	0.55	-4.91	30	Pass
ac20	5785	Ant2	-5.93	0.6	-5.33	30	Pass
ac20	5825	Ant1	-7.36	0.6	-6.76	30	Pass
ac20	5825	Ant2	-5.11	0.6	-4.51	30	Pass
ac40	5755	Ant1	-9.32	0.62	-8.7	30	Pass
ac40	5755	Ant2	-8.56	0.69	-7.87	30	Pass
ac40	5795	Ant1	-9.61	0.83	-8.78	30	Pass
ac40	5795	Ant2	-11.16	0.9	-10.26	30	Pass
ac80	5775	Ant1	-12.81	0.97	-11.84	30	Pass
ac80	5775	Ant2	-11.98	1	-10.98	30	Pass

5.2 Test Graphs

Test Graphs
PSD a 5745MHz Ant1

PSD a 5785MHz Ant1


PSD a 5825MHz Ant1

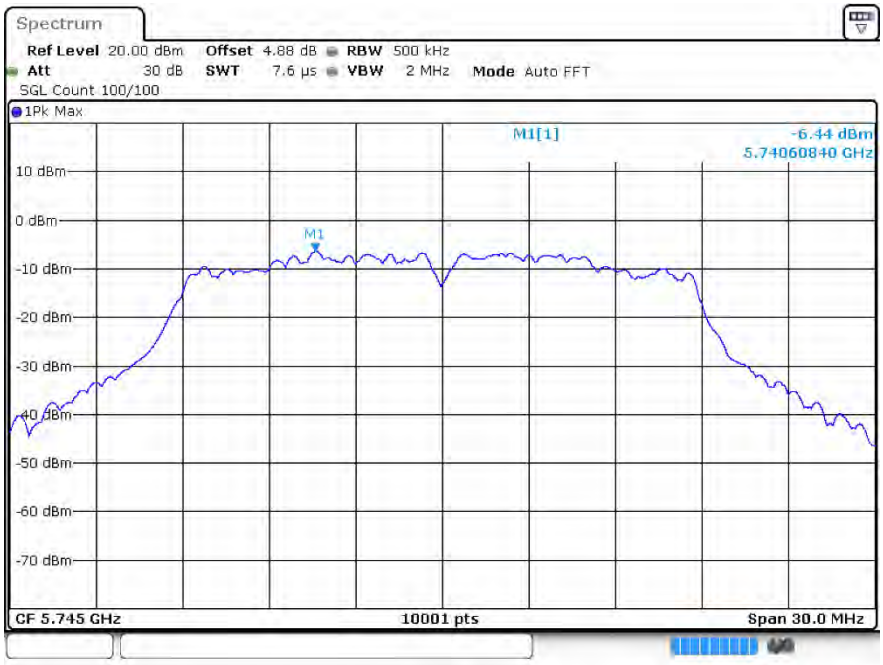


PSD a 5745MHz Ant2

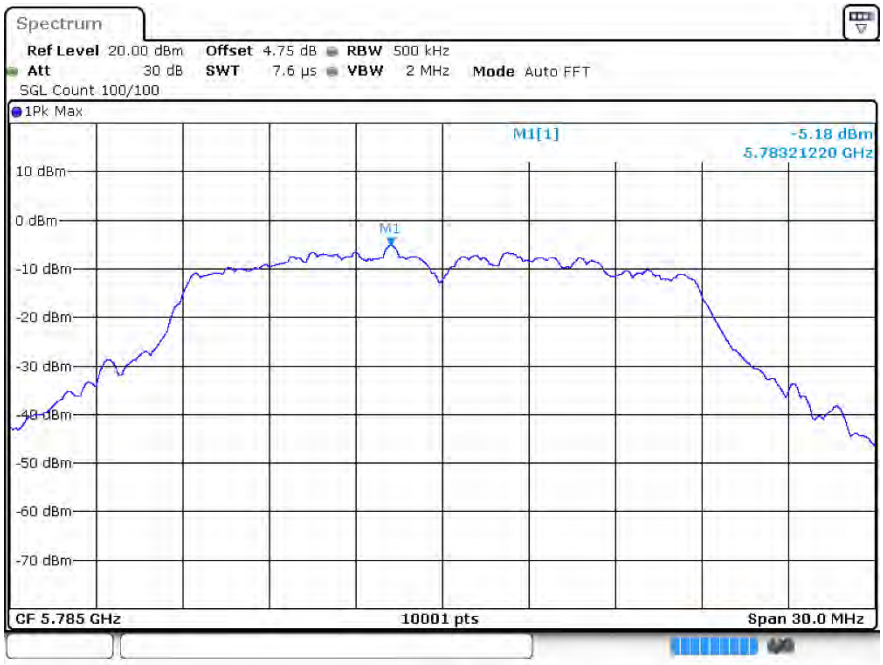
PSD a 5785MHz Ant2

PSD a 5825MHz Ant2

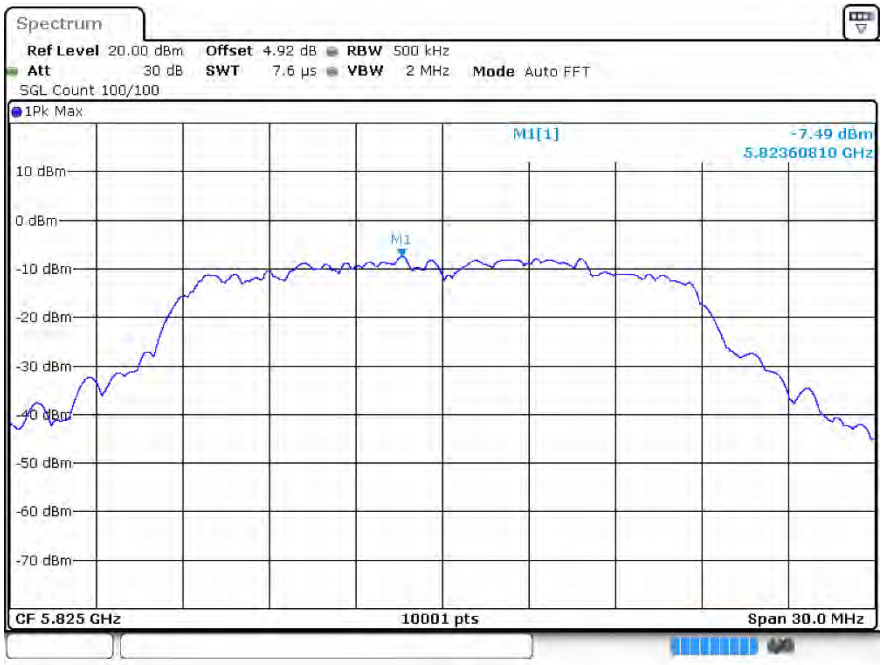
PSD n20 5745MHz Ant1



PSD n20 5785MHz Ant1

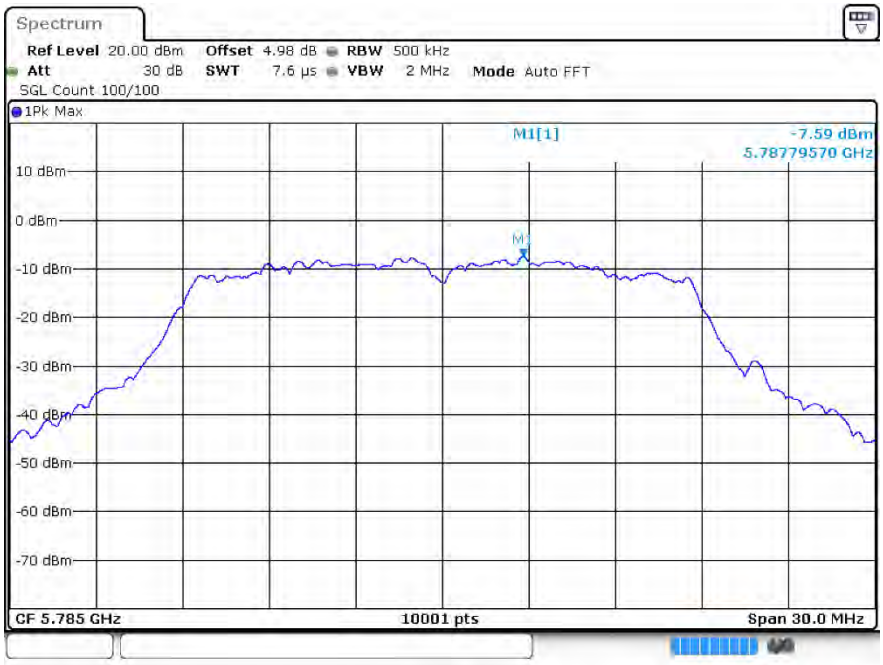


PSD n20 5825MHz Ant1

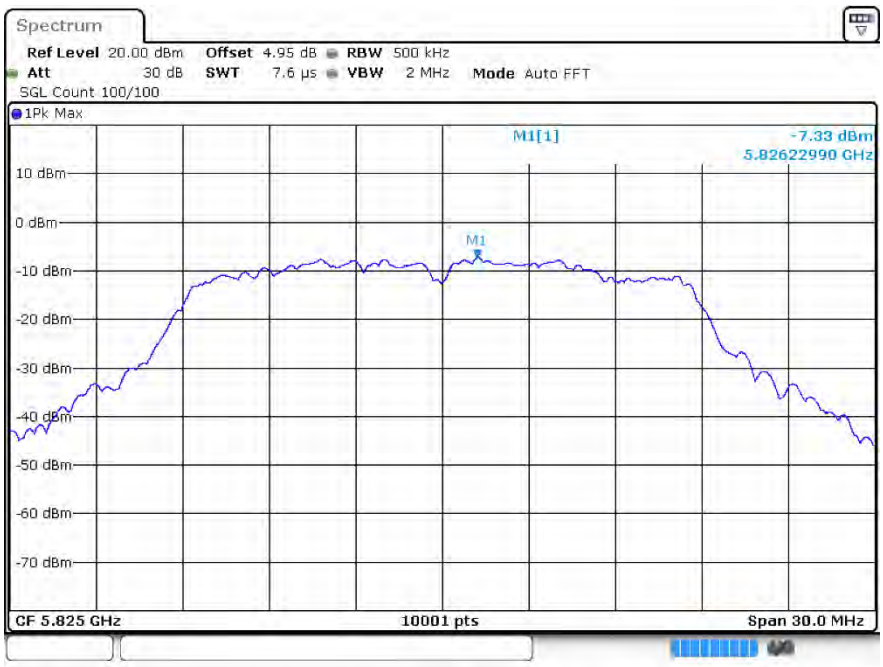


PSD n20 5745MHz Ant2

PSD n20 5785MHz Ant2

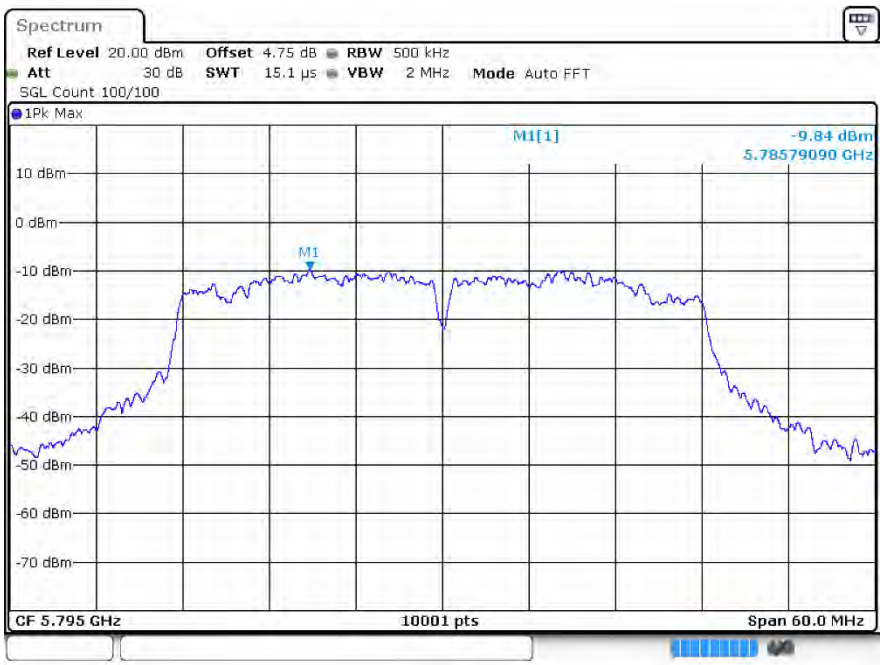


PSD n20 5825MHz Ant2

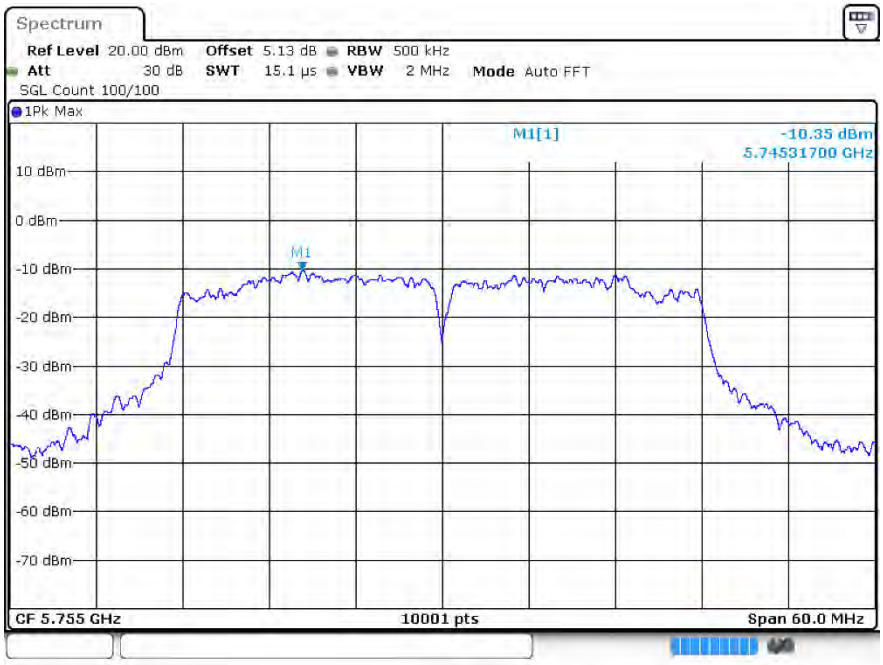


PSD n40 5755MHz Ant1

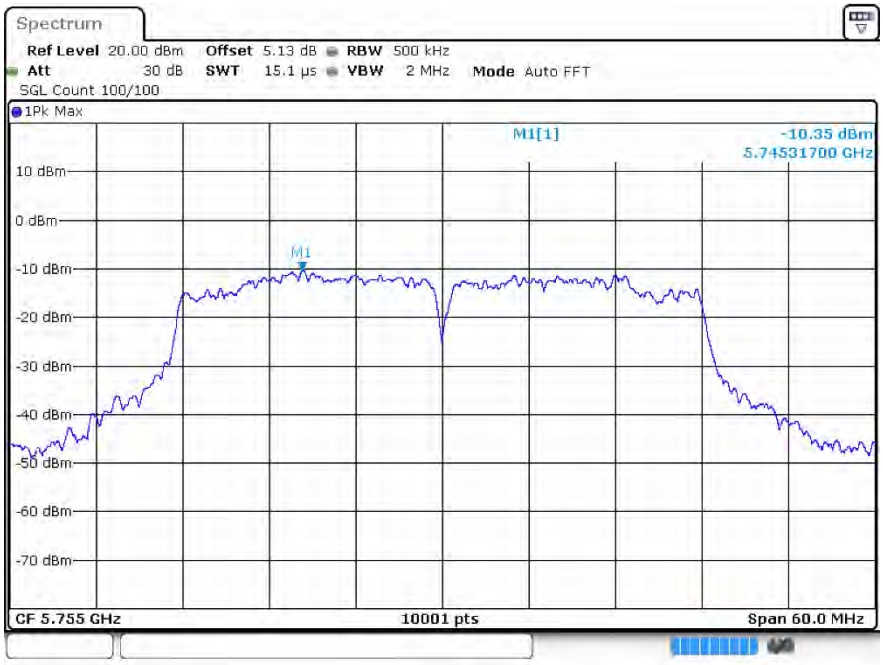
PSD n40 5795MHz Ant1



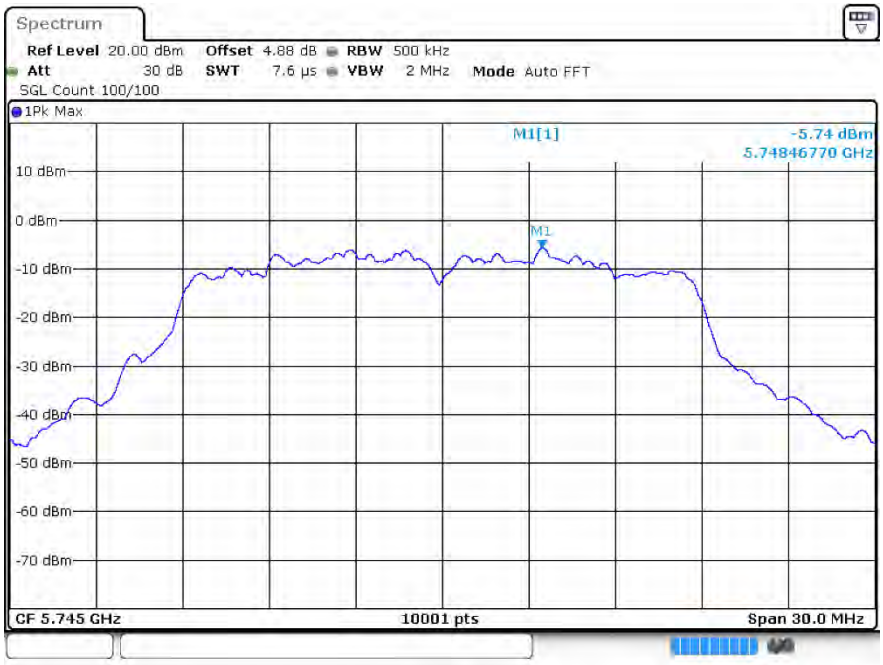
PSD n40 5755MHz Ant2



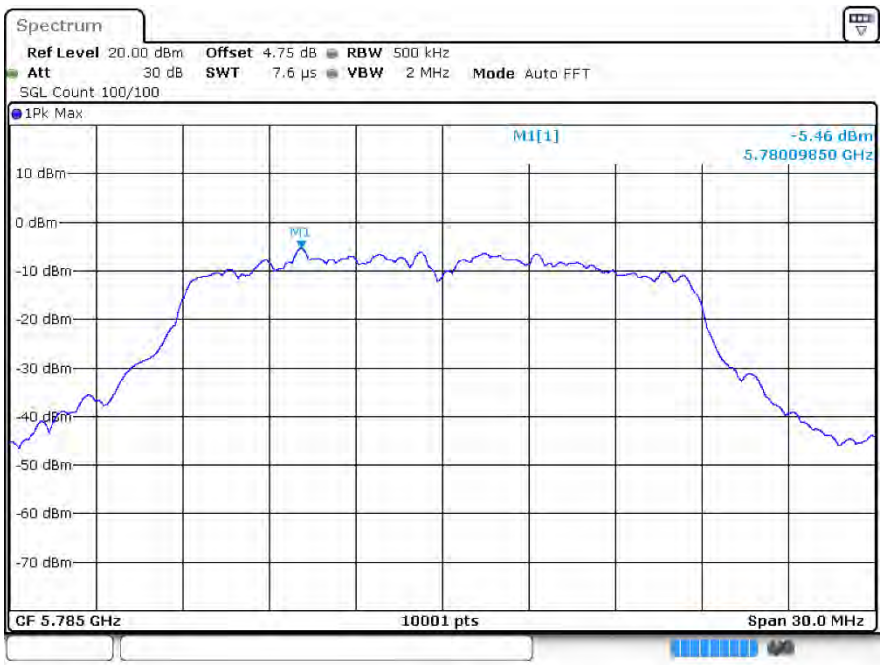
PSD n40 5795MHz Ant2



PSD ac20 5745MHz Ant1



PSD ac20 5785MHz Ant1

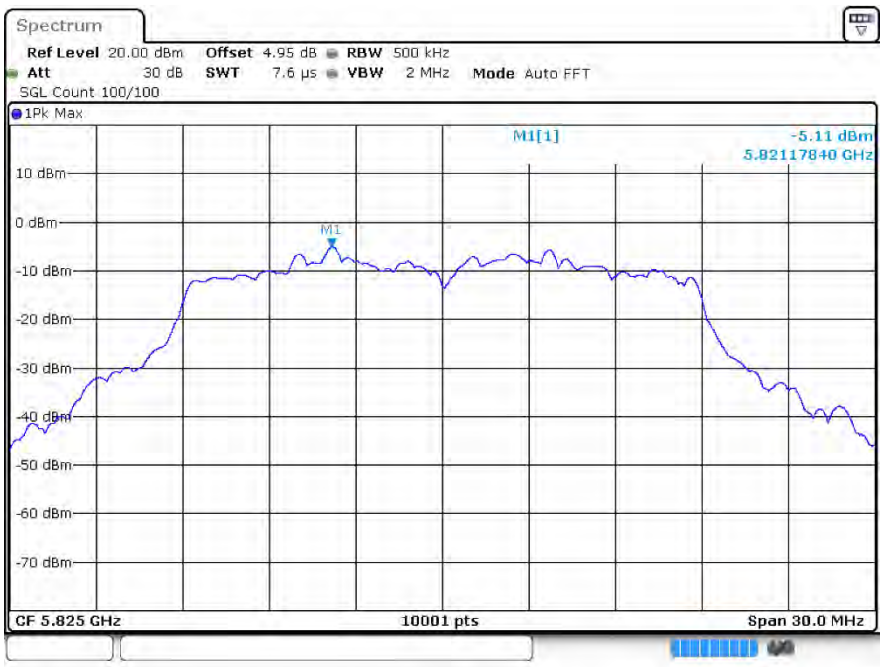


PSD ac20 5825MHz Ant1

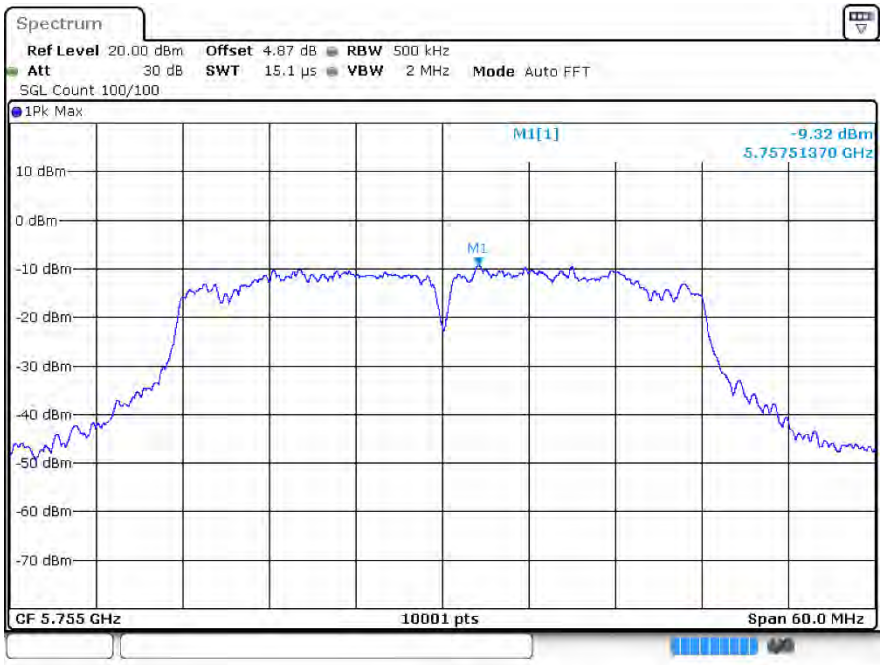
PSD ac20 5745MHz Ant2

PSD ac20 5785MHz Ant2

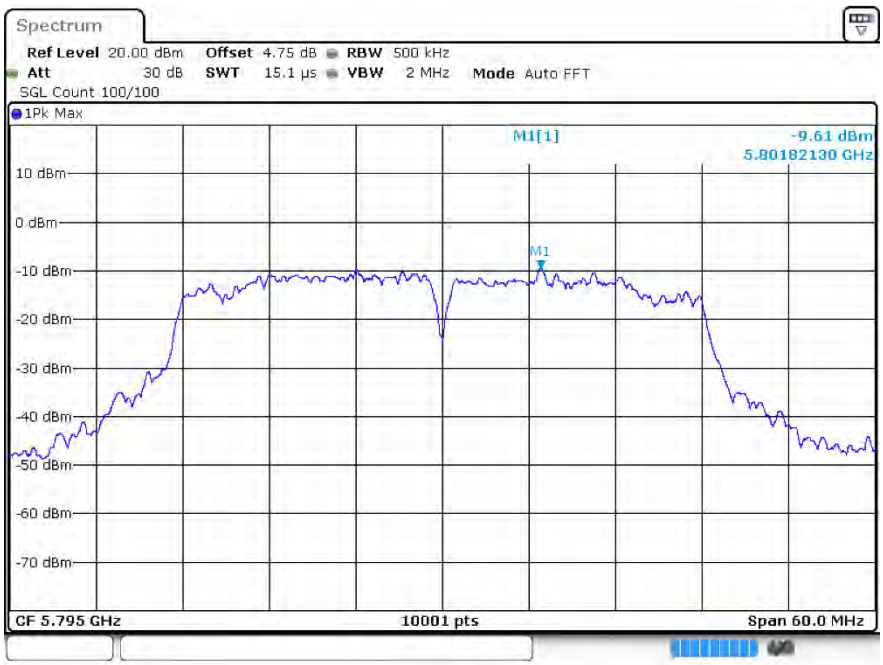
PSD ac20 5825MHz Ant2



PSD ac40 5755MHz Ant1

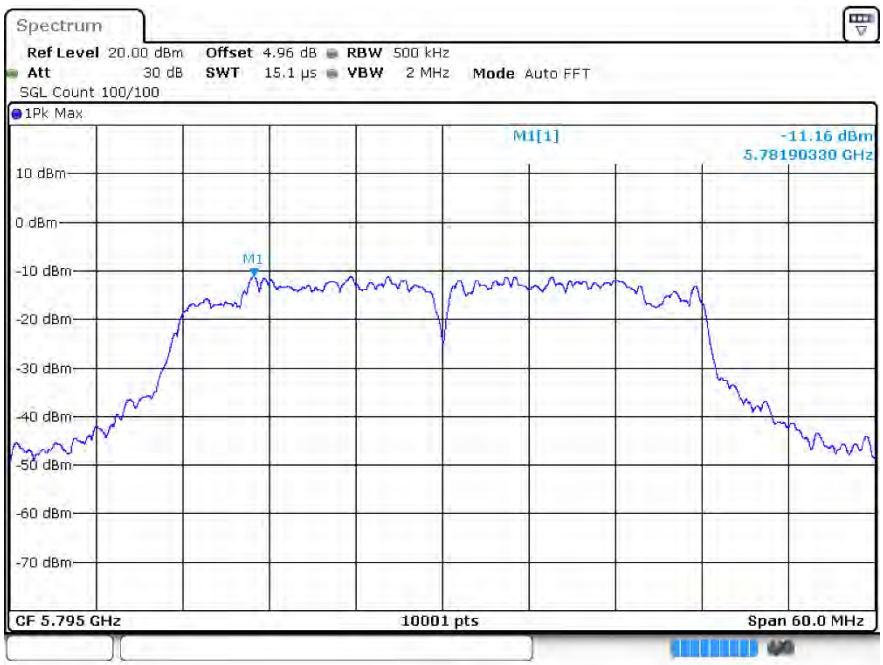


PSD ac40 5795MHz Ant1

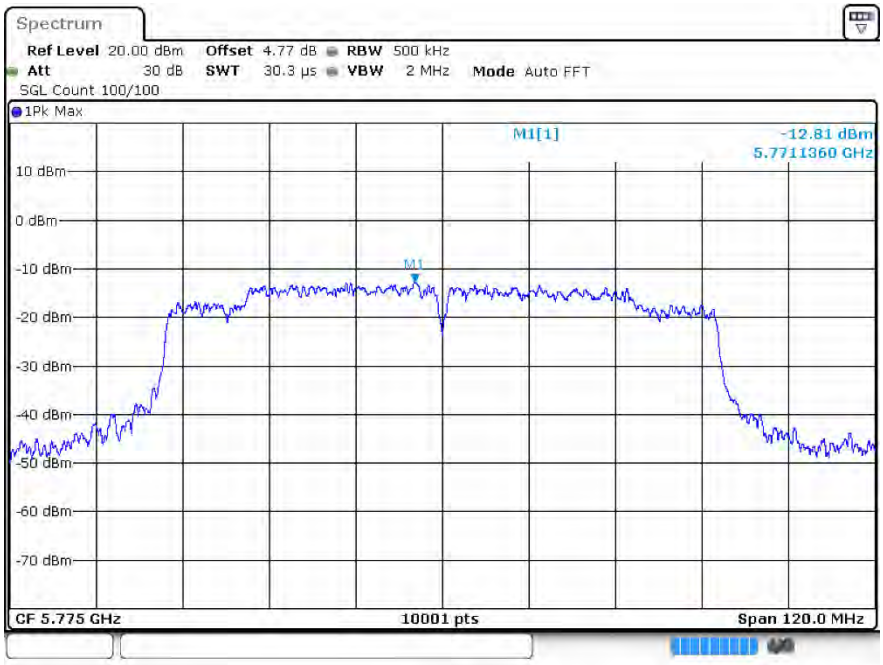


PSD ac40 5755MHz Ant2

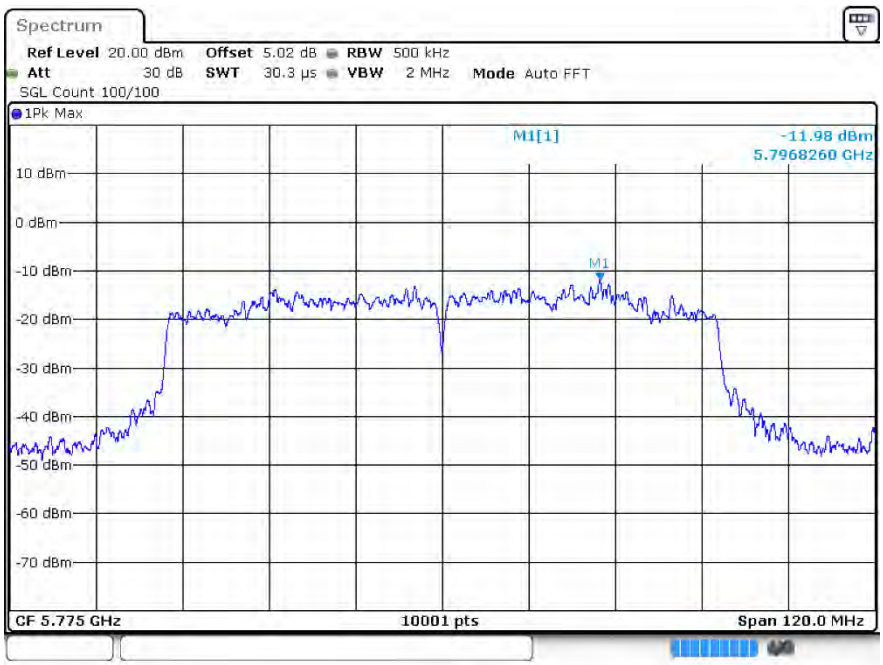
PSD ac40 5795MHz Ant2



PSD ac80 5775MHz Ant1



PSD ac80 5775MHz Ant2



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	5744.96	-40000	-6.96	25	Pass
20C 138V	a	5745	Ant1	5744.96	-40000	-6.96	25	Pass
-20C 120V	a	5745	Ant1	5744.94	-60000	-10.44	25	Pass
-10C 120V	a	5745	Ant1	5744.94	-60000	-10.44	25	Pass
0C 120V	a	5745	Ant1	5744.98	-20000	-3.48	25	Pass
10C 120V	a	5745	Ant1	5744.96	-40000	-6.96	25	Pass
30C 120V	a	5745	Ant1	5744.96	-40000	-6.96	25	Pass
40C 120V	a	5745	Ant1	5744.96	-40000	-6.96	25	Pass
50C 120V	a	5745	Ant1	5744.92	-80000	-13.93	25	Pass
20C 102V	a	5785	Ant1	5784.94	-60000	-10.37	25	Pass
20C 120V	a	5785	Ant1	5784.96	-40000	-6.91	25	Pass
20C 138V	a	5785	Ant1	5784.96	-40000	-6.91	25	Pass
-20C 120V	a	5785	Ant1	5784.96	-40000	-6.91	25	Pass
-10C 120V	a	5785	Ant1	5784.94	-60000	-10.37	25	Pass
0C 120V	a	5785	Ant1	5784.96	-40000	-6.91	25	Pass
10C 120V	a	5785	Ant1	5784.96	-40000	-6.91	25	Pass
30C 120V	a	5785	Ant1	5784.94	-60000	-10.37	25	Pass
40C 120V	a	5785	Ant1	5784.96	-40000	-6.91	25	Pass
50C 120V	a	5785	Ant1	5784.96	-40000	-6.91	25	Pass
20C 102V	a	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 120V	a	5825	Ant1	5824.98	-20000	-3.43	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	5824.96	-40000	-6.87	25	Pass
0C 120V	a	5825	Ant1	5824.98	-20000	-3.43	25	Pass
10C 120V	a	5825	Ant1	5824.96	-40000	-6.87	25	Pass
30C 120V	a	5825	Ant1	5824.98	-20000	-3.43	25	Pass
40C 120V	a	5825	Ant1	5824.94	-60000	-10.3	25	Pass
50C 120V	a	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 102V	n20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
20C 120V	n20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
20C 138V	n20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
-20C 120V	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
-10C 120V	n20	5745	Ant1	5744.96	-40000	-6.96	25	Pass

0C 120V	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
10C 120V	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
30C 120V	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
40C 120V	n20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
50C 120V	n20	5745	Ant1	5744.96	-40000	-6.96	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	5784.94	-60000	-10.37	25	Pass
-20C 120V	n20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
-10C 120V	n20	5785	Ant1	5784.98	-20000	-3.46	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	5784.92	-80000	-13.83	25	Pass
40C 120V	n20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
50C 120V	n20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
20C 102V	n20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
20C 120V	n20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
20C 138V	n20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
-20C 120V	n20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
-10C 120V	n20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
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	5824.98	-20000	-3.43	25	Pass
40C 120V	n20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
50C 120V	n20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
20C 102V	n40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
20C 120V	n40	5755	Ant1	5754.96	-40000	-6.95	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	5754.92	-80000	-13.9	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	5794.92	-80000	-13.81	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	5795	0	0	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	5794.88	-120000	-20.71	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	5744.94	-60000	-10.44	25	Pass
20C 138V	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
-20C 120V	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
-10C 120V	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
0C 120V	ac20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
10C 120V	ac20	5745	Ant1	5744.92	-80000	-13.93	25	Pass
30C 120V	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
40C 120V	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
50C 120V	ac20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
20C 102V	ac20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
20C 120V	ac20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
20C 138V	ac20	5785	Ant1	5784.96	-40000	-6.91	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	5784.94	-60000	-10.37	25	Pass
30C 120V	ac20	5785	Ant1	5784.98	-20000	-3.46	25	Pass
40C 120V	ac20	5785	Ant1	5784.94	-60000	-10.37	25	Pass
50C 120V	ac20	5785	Ant1	5784.92	-80000	-13.83	25	Pass
20C 102V	ac20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
20C 120V	ac20	5825	Ant1	5824.98	-20000	-3.43	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	5824.96	-40000	-6.87	25	Pass
0C 120V	ac20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
10C 120V	ac20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
30C 120V	ac20	5825	Ant1	5824.92	-80000	-13.73	25	Pass
40C 120V	ac20	5825	Ant1	5824.92	-80000	-13.73	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	5754.96	-40000	-6.95	25	Pass
20C 138V	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
-20C 120V	ac40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
-10C 120V	ac40	5755	Ant1	5754.92	-80000	-13.9	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	5754.96	-40000	-6.95	25	Pass
40C 120V	ac40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
50C 120V	ac40	5755	Ant1	5754.96	-40000	-6.95	25	Pass
20C 102V	ac40	5795	Ant1	5794.96	-40000	-6.9	25	Pass

20C 120V	ac40	5795	Ant1	5794.92	-80000	-13.81	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	5794.96	-40000	-6.9	25	Pass
0C 120V	ac40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
10C 120V	ac40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
30C 120V	ac40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
40C 120V	ac40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
50C 120V	ac40	5795	Ant1	5794.92	-80000	-13.81	25	Pass
20C 102V	ac80	5775	Ant1	5774.84	-160000	-27.71	25	Pass
20C 120V	ac80	5775	Ant1	5774.92	-80000	-13.85	25	Pass
20C 138V	ac80	5775	Ant1	5774.76	-240000	-41.56	25	Pass
-20C 120V	ac80	5775	Ant1	5774.92	-80000	-13.85	25	Pass
-10C 120V	ac80	5775	Ant1	5774.92	-80000	-13.85	25	Pass
0C 120V	ac80	5775	Ant1	5774.92	-80000	-13.85	25	Pass
10C 120V	ac80	5775	Ant1	5775	0	0	25	Pass
30C 120V	ac80	5775	Ant1	5775	0	0	25	Pass
40C 120V	ac80	5775	Ant1	5775	0	0	25	Pass
50C 120V	ac80	5775	Ant1	5775	0	0	25	Pass

Remark:

Ant1 and Ant2 have been tested, found worst case is Ant1, only record the worst case results in this report.

7 Conducted RF Spurious Emission

7.1 Test Result

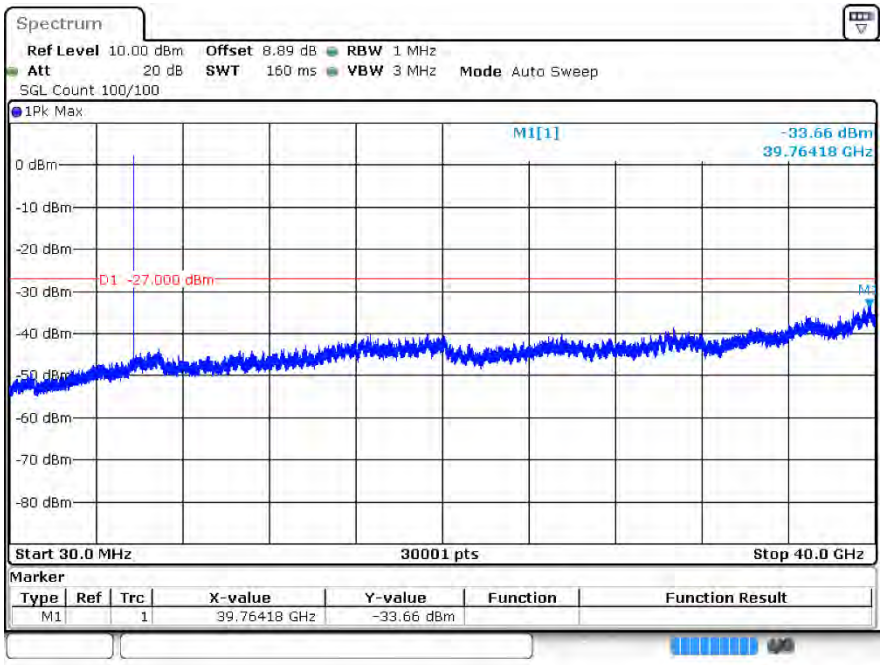
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
a	5745	Ant1	-33.66	-27	Pass
a	5785	Ant1	-33.52	-27	Pass
a	5825	Ant1	-32.88	-27	Pass
n20	5745	Ant1	-32.83	-27	Pass
n20	5785	Ant1	-33.29	-27	Pass
n20	5825	Ant1	-33.32	-27	Pass
n40	5755	Ant1	-33.25	-27	Pass
n40	5795	Ant1	-33.41	-27	Pass
ac20	5745	Ant1	-33.01	-27	Pass
ac20	5785	Ant1	-33.17	-27	Pass
ac20	5825	Ant1	-33.36	-27	Pass
ac40	5755	Ant1	-32.48	-27	Pass
ac40	5795	Ant1	-32.89	-27	Pass
ac80	5775	Ant1	-33.49	-27	Pass

Remark:

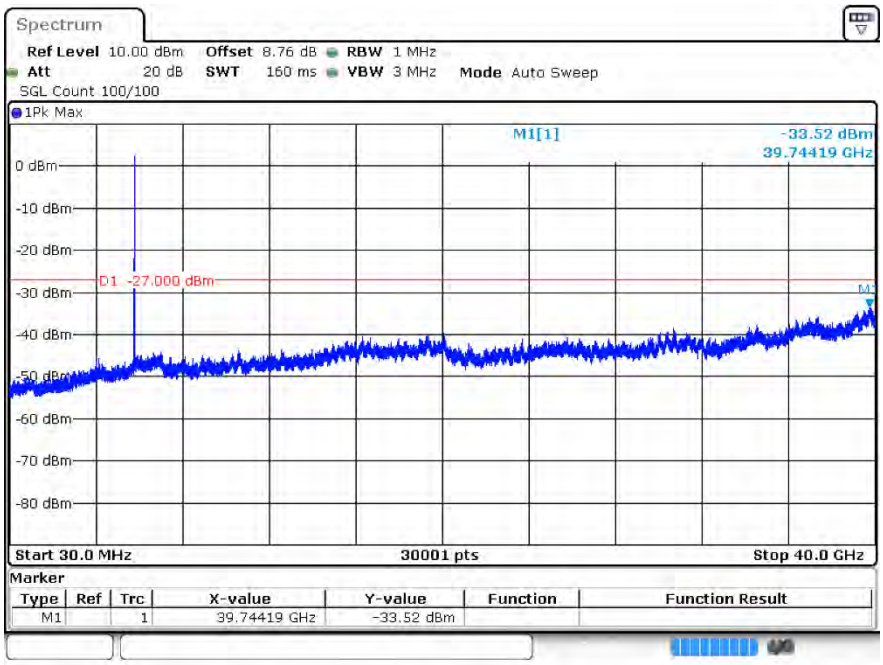
Ant1 and Ant2 have been tested, found worst case is Ant1, only record the worst case results in this report.

7.2 Test Graphs

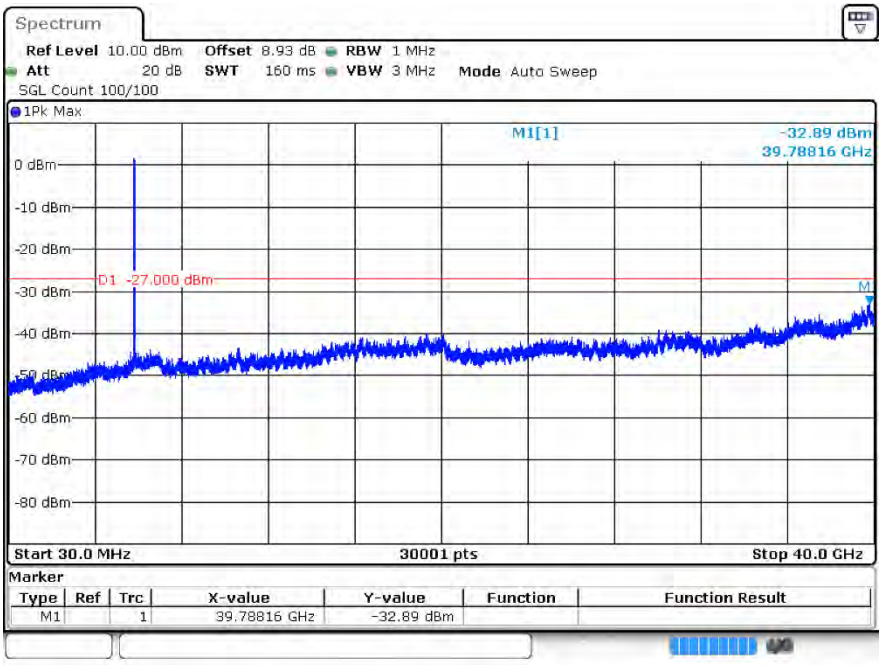
Test Graphs
Test Graphs
Tx. Spurious a 5745MHz Ant1 Emission



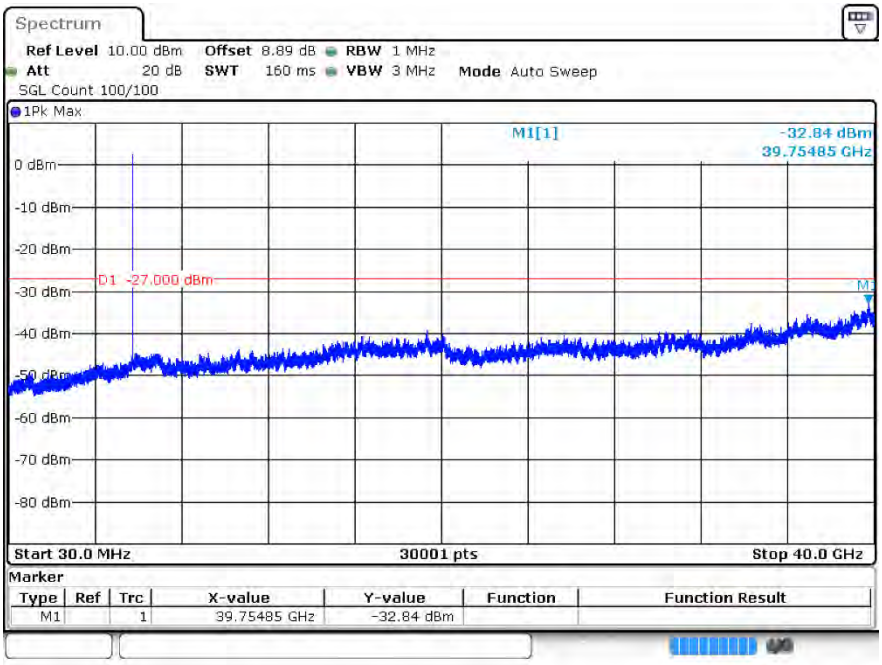
Tx. Spurious a 5785MHz Ant1 Emission



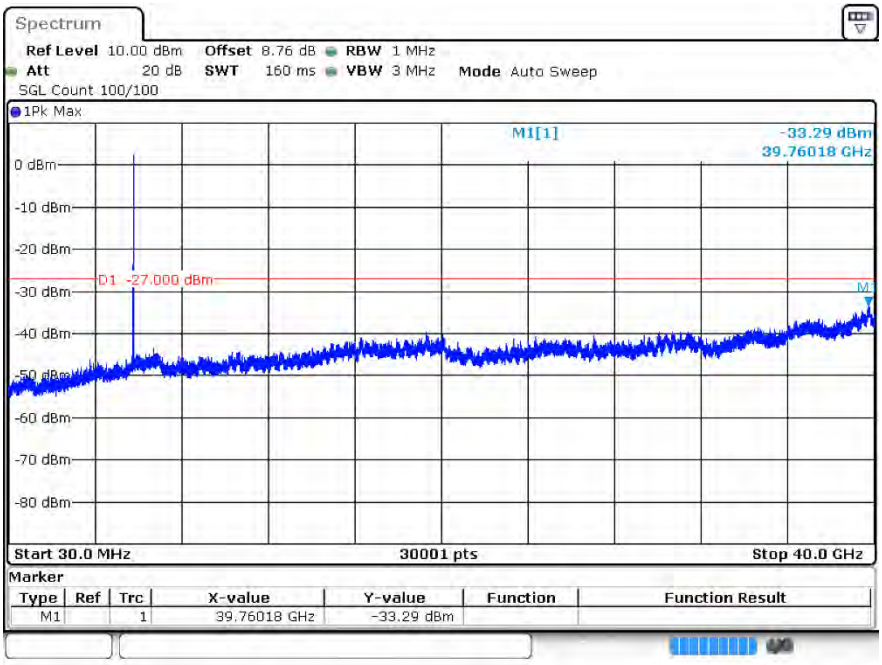
Tx. Spurious a 5825MHz Ant1 Emission



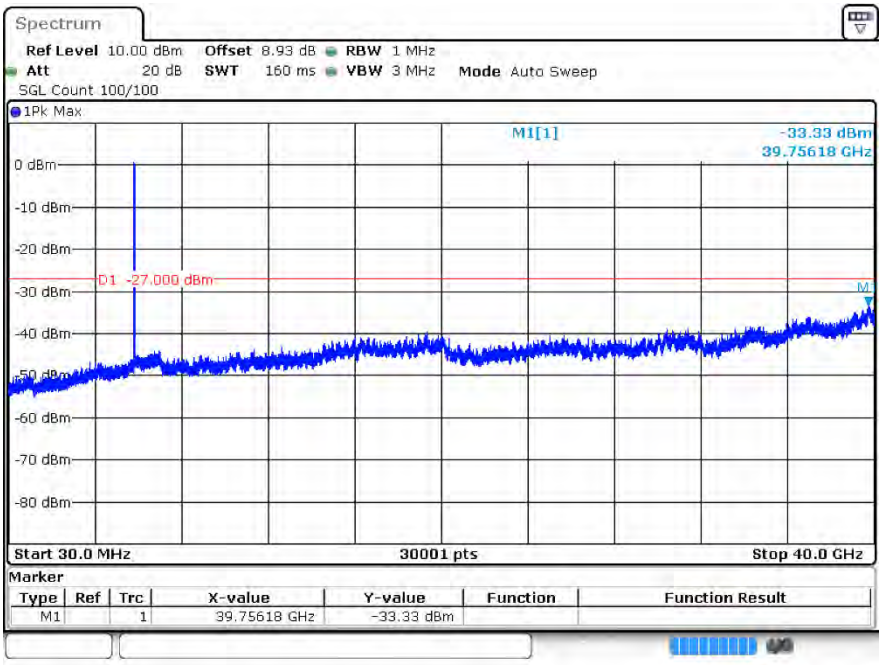
Tx. Spurious n20 5745MHz Ant1 Emission



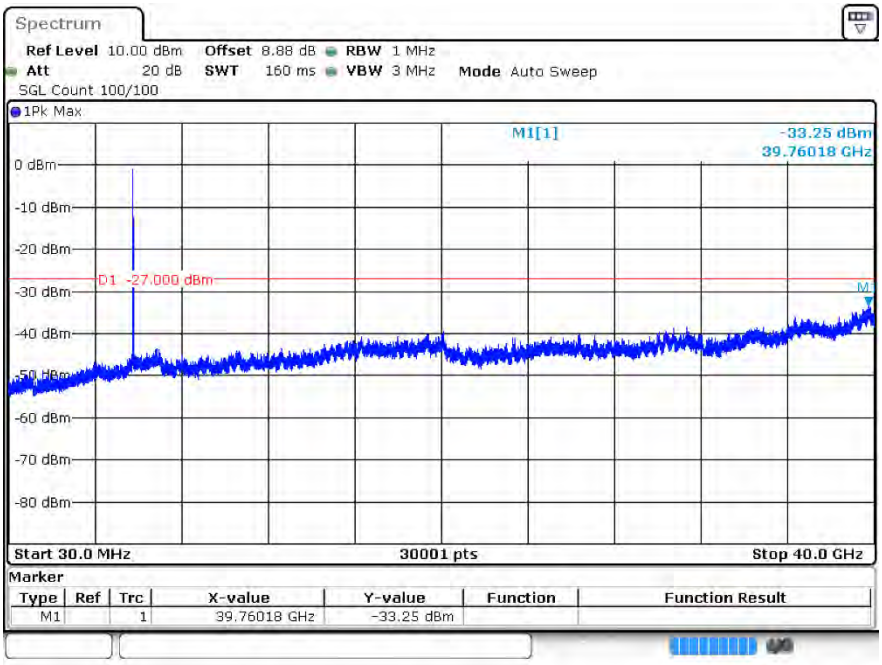
Tx. Spurious n20 5785MHz Ant1 Emission



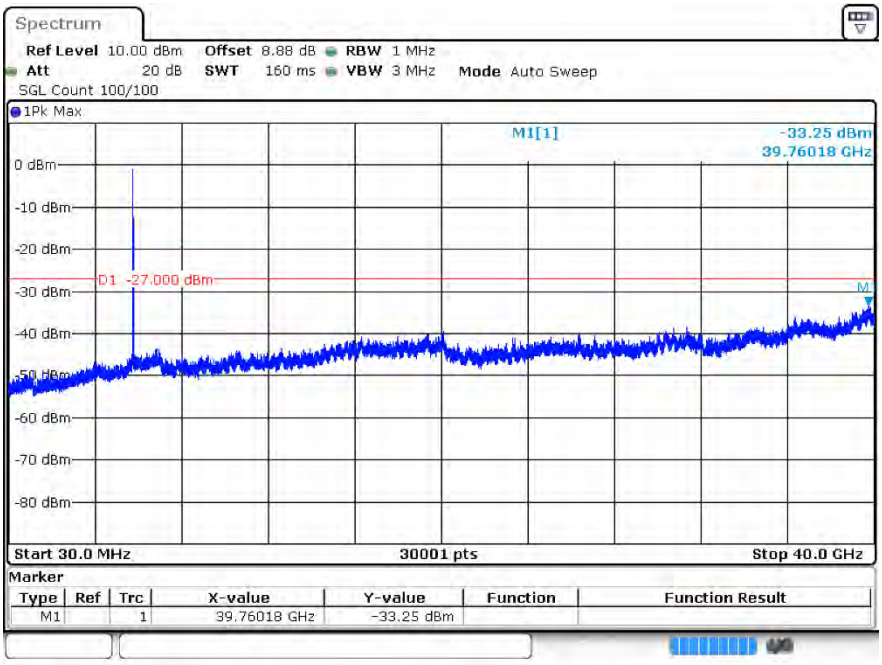
Tx. Spurious n20 5825MHz Ant1 Emission



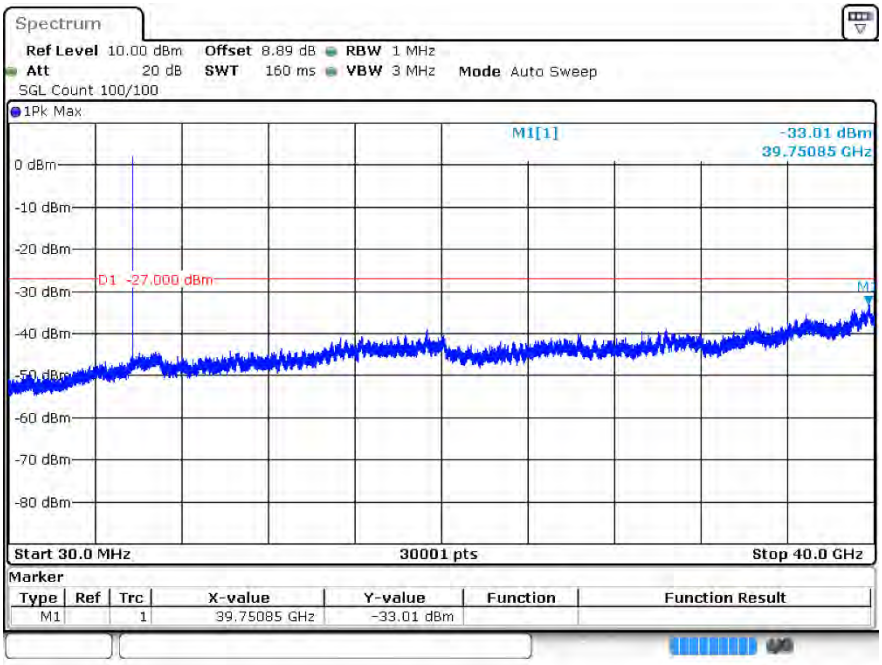
Tx. Spurious n40 5755MHz Ant1 Emission



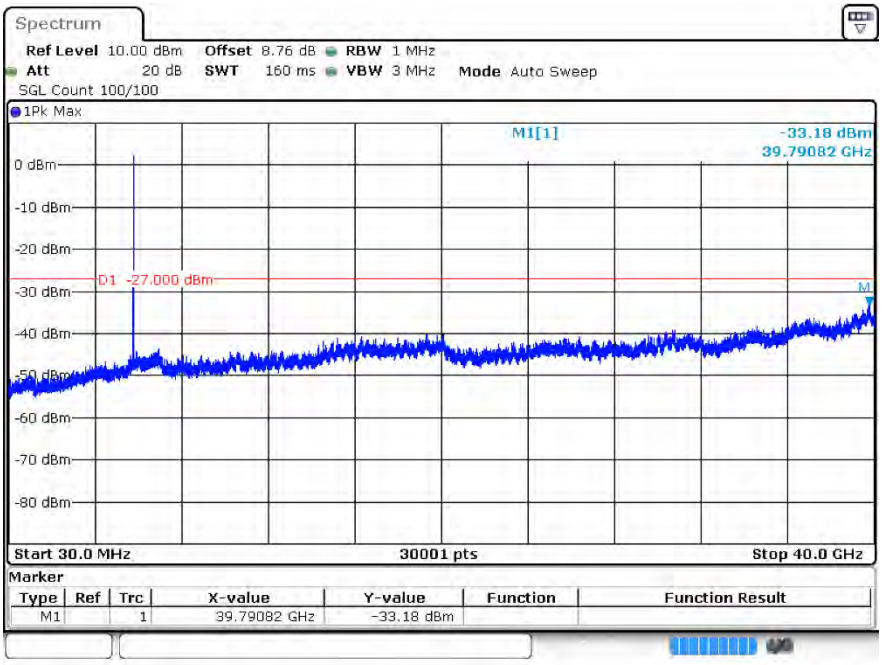
Tx. Spurious n40 5795MHz Ant1 Emission



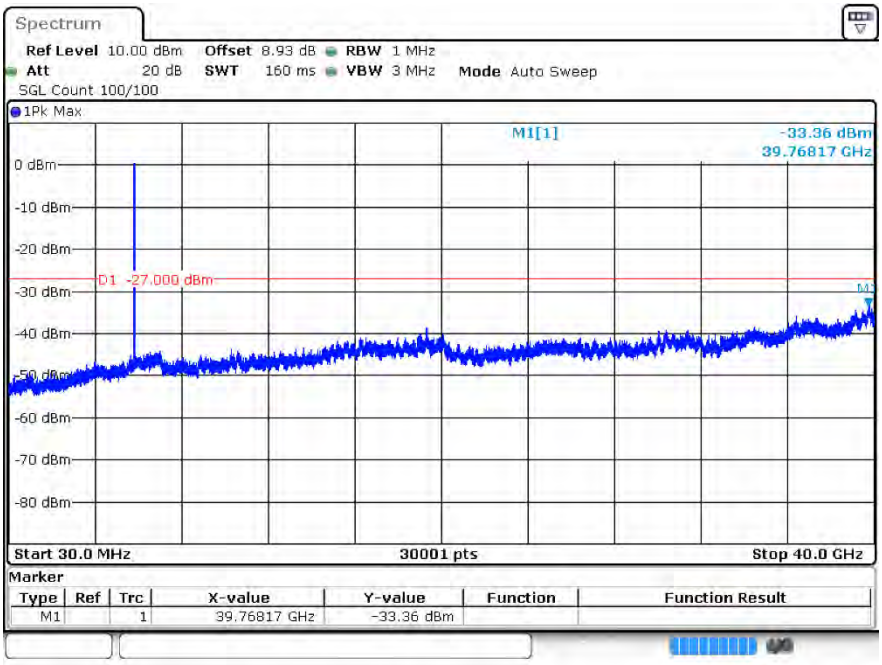
Tx. Spurious ac20 5745MHz Ant1 Emission



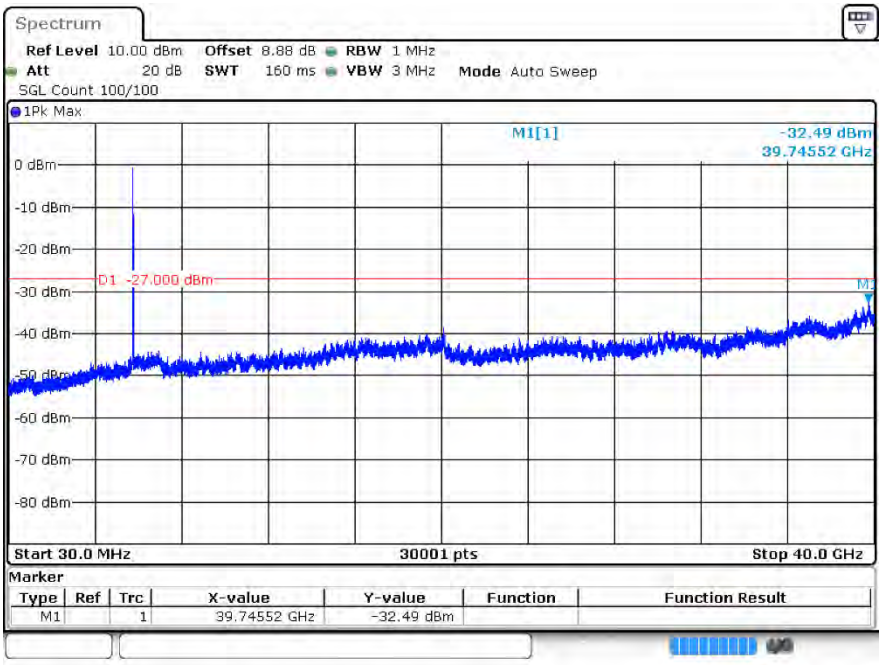
Tx. Spurious ac20 5785MHz Ant1 Emission



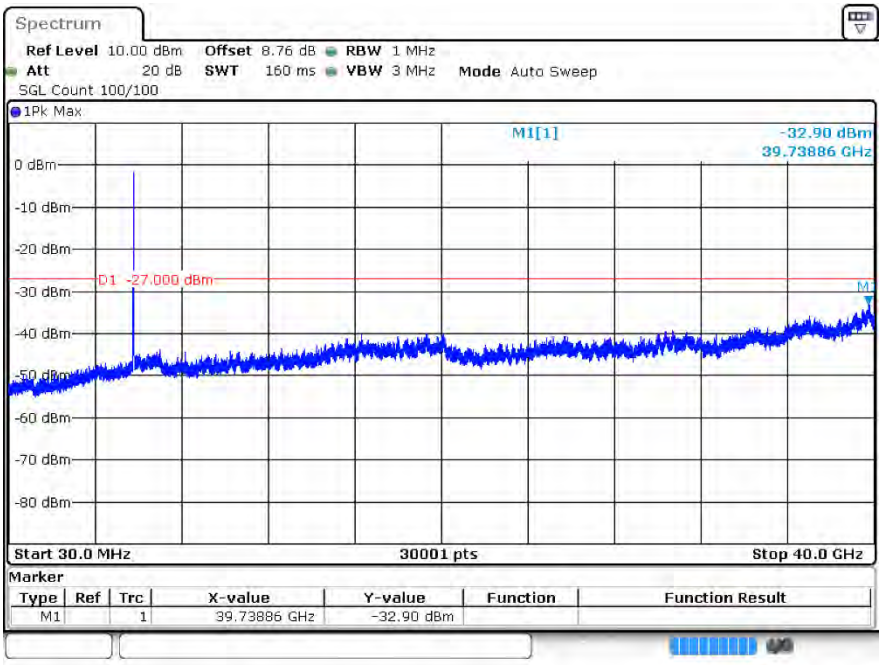
Tx. Spurious ac20 5825MHz Ant1 Emission



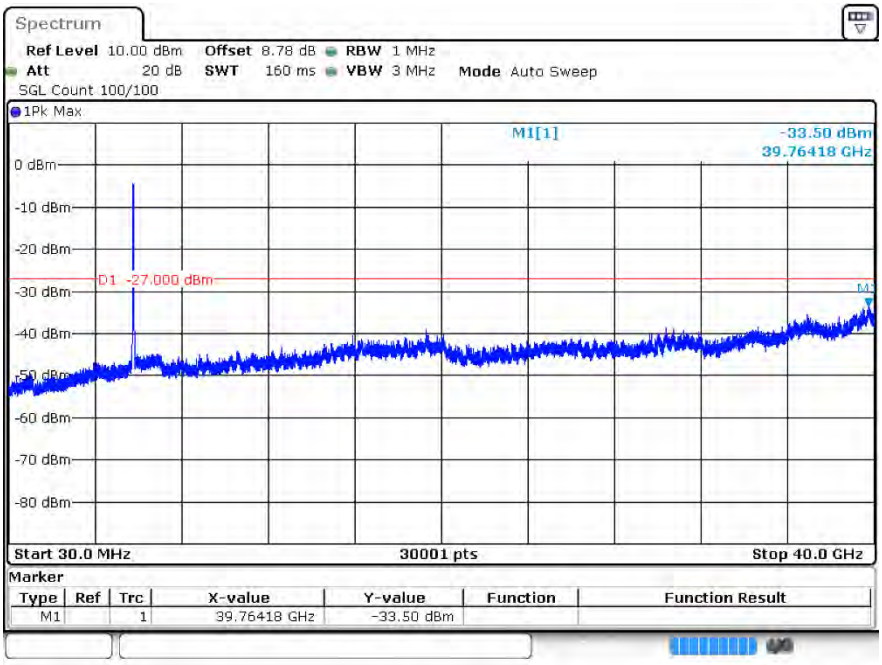
Tx. Spurious ac40 5755MHz Ant1 Emission



Tx. Spurious ac40 5795MHz Ant1 Emission



Tx. Spurious ac80 5775MHz Ant1 Emission



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	-41.2	4.01	-37.19	Peak	-27	Pass
a	5745	Ant1	5650	-48.25	4.01	-44.24	Average	-27	Pass
a	5745	Ant1	5700	-40.41	4.01	-36.4	Peak	10	Pass
a	5745	Ant1	5700	-47.51	4.01	-43.5	Average	10	Pass
a	5745	Ant1	5720	-40.32	4.01	-36.31	Peak	15.6	Pass
a	5745	Ant1	5720	-47.92	4.01	-43.91	Average	15.6	Pass
a	5745	Ant1	5725	-39.09	4.01	-35.08	Peak	27	Pass
a	5745	Ant1	5725	-48.46	4.01	-44.45	Average	27	Pass
a	5825	Ant1	5850	-39.01	4.01	-35	Peak	27	Pass
a	5825	Ant1	5850	-47.53	4.01	-43.52	Average	27	Pass
a	5825	Ant1	5855	-41.77	4.01	-37.76	Peak	15.6	Pass
a	5825	Ant1	5855	-47.77	4.01	-43.76	Average	15.6	Pass
a	5825	Ant1	5875	-38.91	4.01	-34.9	Peak	10	Pass
a	5825	Ant1	5875	-47.32	4.01	-43.31	Average	10	Pass
a	5825	Ant1	5925	-39.12	4.01	-35.11	Peak	-27	Pass
a	5825	Ant1	5925	-46.97	4.01	-42.96	Average	-27	Pass
n20	5745	Ant1	5650	-38.6	4.01	-34.59	Peak	-27	Pass
n20	5745	Ant1	5650	-48.68	4.01	-44.67	Average	-27	Pass
n20	5745	Ant1	5700	-38.77	4.01	-34.76	Peak	10	Pass
n20	5745	Ant1	5700	-48.15	4.01	-44.14	Average	10	Pass
n20	5745	Ant1	5720	-41.12	4.01	-37.11	Peak	15.6	Pass
n20	5745	Ant1	5720	-48.21	4.01	-44.2	Average	15.6	Pass
n20	5745	Ant1	5725	-41	4.01	-36.99	Peak	27	Pass
n20	5745	Ant1	5725	-47.88	4.01	-43.87	Average	27	Pass
n20	5825	Ant1	5850	-41.24	4.01	-37.23	Peak	27	Pass
n20	5825	Ant1	5850	-47.95	4.01	-43.94	Average	27	Pass
n20	5825	Ant1	5855	-38.95	4.01	-34.94	Peak	15.6	Pass
n20	5825	Ant1	5855	-47.94	4.01	-43.93	Average	15.6	Pass
n20	5825	Ant1	5875	-37.73	4.01	-33.72	Peak	10	Pass
n20	5825	Ant1	5875	-47.51	4.01	-43.5	Average	10	Pass
n20	5825	Ant1	5925	-38.36	4.01	-34.35	Peak	-27	Pass
n20	5825	Ant1	5925	-47.48	4.01	-43.47	Average	-27	Pass
n40	5755	Ant1	5650	-39.07	4.01	-35.06	Peak	-27	Pass
n40	5755	Ant1	5650	-48.28	4.01	-44.27	Average	-27	Pass

n40	5755	Ant1	5700	-39.8	4.01	-35.79	Peak	10	Pass
n40	5755	Ant1	5700	-48.1	4.01	-44.09	Average	10	Pass
n40	5755	Ant1	5720	-40.25	4.01	-36.24	Peak	15.6	Pass
n40	5755	Ant1	5720	-48.3	4.01	-44.29	Average	15.6	Pass
n40	5755	Ant1	5725	-38.54	4.01	-34.53	Peak	27	Pass
n40	5755	Ant1	5725	-48.28	4.01	-44.27	Average	27	Pass
n40	5795	Ant1	5850	-39.98	4.01	-35.97	Peak	27	Pass
n40	5795	Ant1	5850	-47.94	4.01	-43.93	Average	27	Pass
n40	5795	Ant1	5855	-39.97	4.01	-35.96	Peak	15.6	Pass
n40	5795	Ant1	5855	-47.74	4.01	-43.73	Average	15.6	Pass
n40	5795	Ant1	5875	-39.62	4.01	-35.61	Peak	10	Pass
n40	5795	Ant1	5875	-47.48	4.01	-43.47	Average	10	Pass
n40	5795	Ant1	5925	-38.35	4.01	-34.34	Peak	-27	Pass
n40	5795	Ant1	5925	-47.5	4.01	-43.49	Average	-27	Pass
ac20	5745	Ant1	5650	-40.34	4.01	-36.33	Peak	-27	Pass
ac20	5745	Ant1	5650	-48.29	4.01	-44.28	Average	-27	Pass
ac20	5745	Ant1	5700	-39.84	4.01	-35.83	Peak	10	Pass
ac20	5745	Ant1	5700	-47.92	4.01	-43.91	Average	10	Pass
ac20	5745	Ant1	5720	-40.22	4.01	-36.21	Peak	15.6	Pass
ac20	5745	Ant1	5720	-48.38	4.01	-44.37	Average	15.6	Pass
ac20	5745	Ant1	5725	-41.13	4.01	-37.12	Peak	27	Pass
ac20	5745	Ant1	5725	-48.09	4.01	-44.08	Average	27	Pass
ac20	5825	Ant1	5850	-40.58	4.01	-36.57	Peak	27	Pass
ac20	5825	Ant1	5850	-47.67	4.01	-43.66	Average	27	Pass
ac20	5825	Ant1	5855	-38.48	4.01	-34.47	Peak	15.6	Pass
ac20	5825	Ant1	5855	-47.22	4.01	-43.21	Average	15.6	Pass
ac20	5825	Ant1	5875	-37.17	4.01	-33.16	Peak	10	Pass
ac20	5825	Ant1	5875	-46.84	4.01	-42.83	Average	10	Pass
ac20	5825	Ant1	5925	-40.06	4.01	-36.05	Peak	-27	Pass
ac20	5825	Ant1	5925	-46.64	4.01	-42.63	Average	-27	Pass
ac40	5755	Ant1	5650	-39.35	4.01	-35.34	Peak	-27	Pass
ac40	5755	Ant1	5650	-48.64	4.01	-44.63	Average	-27	Pass
ac40	5755	Ant1	5700	-39.22	4.01	-35.21	Peak	10	Pass
ac40	5755	Ant1	5700	-48.04	4.01	-44.03	Average	10	Pass
ac40	5755	Ant1	5720	-38.81	4.01	-34.8	Peak	15.6	Pass
ac40	5755	Ant1	5720	-47.71	4.01	-43.7	Average	15.6	Pass
ac40	5755	Ant1	5725	-40.58	4.01	-36.57	Peak	27	Pass
ac40	5755	Ant1	5725	-47.92	4.01	-43.91	Average	27	Pass
ac40	5795	Ant1	5850	-38.24	4.01	-34.23	Peak	27	Pass
ac40	5795	Ant1	5850	-47.97	4.01	-43.96	Average	27	Pass
ac40	5795	Ant1	5855	-38.28	4.01	-34.27	Peak	15.6	Pass
ac40	5795	Ant1	5855	-47.74	4.01	-43.73	Average	15.6	Pass
ac40	5795	Ant1	5875	-39.63	4.01	-35.62	Peak	10	Pass

ac40	5795	Ant1	5875	-47.34	4.01	-43.33	Average	10	Pass
ac40	5795	Ant1	5925	-40.7	4.01	-36.69	Peak	-27	Pass
ac40	5795	Ant1	5925	-46.94	4.01	-42.93	Average	-27	Pass
ac80	5775	Ant1	5650	-39.17	4.01	-35.16	Peak	-27	Pass
ac80	5775	Ant1	5650	-48.2	4.01	-44.19	Average	-27	Pass
ac80	5775	Ant1	5700	-40.33	4.01	-36.32	Peak	10	Pass
ac80	5775	Ant1	5700	-48.05	4.01	-44.04	Average	10	Pass
ac80	5775	Ant1	5720	-40.68	4.01	-36.67	Peak	15.6	Pass
ac80	5775	Ant1	5720	-48.4	4.01	-44.39	Average	15.6	Pass
ac80	5775	Ant1	5725	-38.37	4.01	-34.36	Peak	27	Pass
ac80	5775	Ant1	5725	-46.74	4.01	-42.73	Average	27	Pass
ac80	5775	Ant1	5850	-39.12	4.01	-35.11	Peak	27	Pass
ac80	5775	Ant1	5850	-47.74	4.01	-43.73	Average	27	Pass
ac80	5775	Ant1	5855	-41.14	4.01	-37.13	Peak	15.6	Pass
ac80	5775	Ant1	5855	-47.5	4.01	-43.49	Average	15.6	Pass
ac80	5775	Ant1	5875	-38.46	4.01	-34.45	Peak	10	Pass
ac80	5775	Ant1	5875	-46.97	4.01	-42.96	Average	10	Pass
ac80	5775	Ant1	5925	-37.74	4.01	-33.73	Peak	-27	Pass
ac80	5775	Ant1	5925	-47.46	4.01	-43.45	Average	-27	Pass

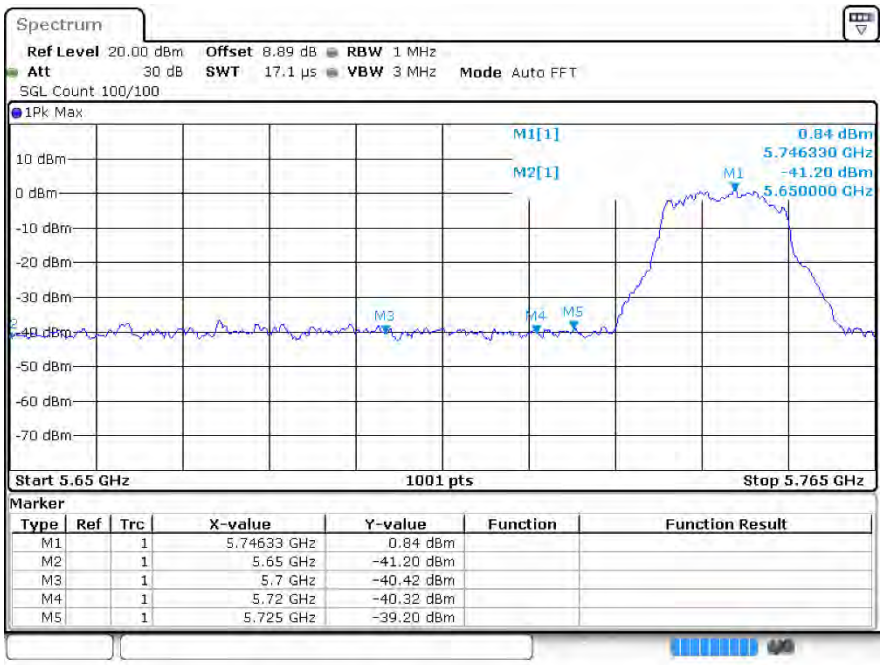
Remark:

Ant1 and Ant2 have been tested, found worst case is Ant1, only record the worst case results in this report.

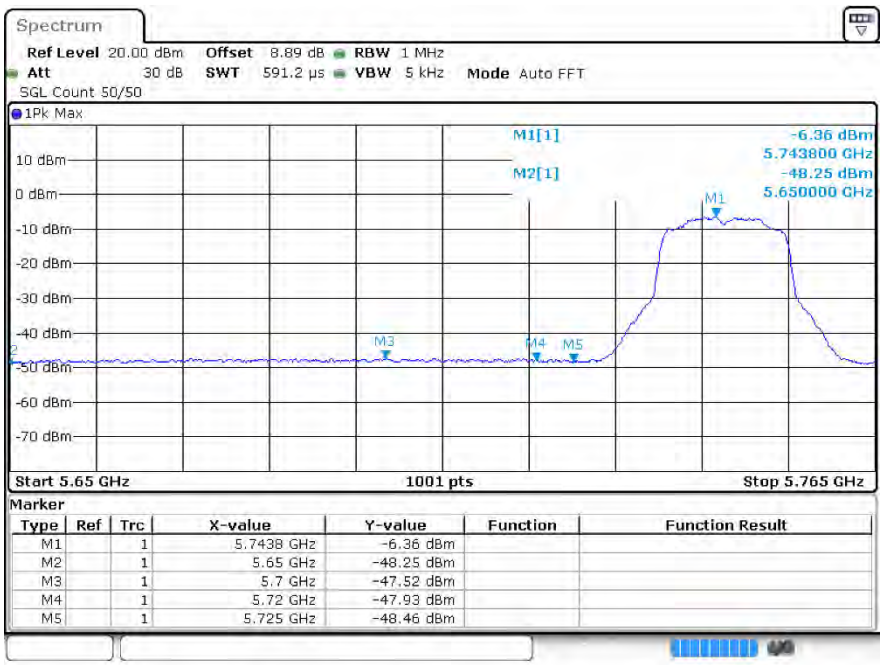
8.2 Test Graphs

Test Graphs

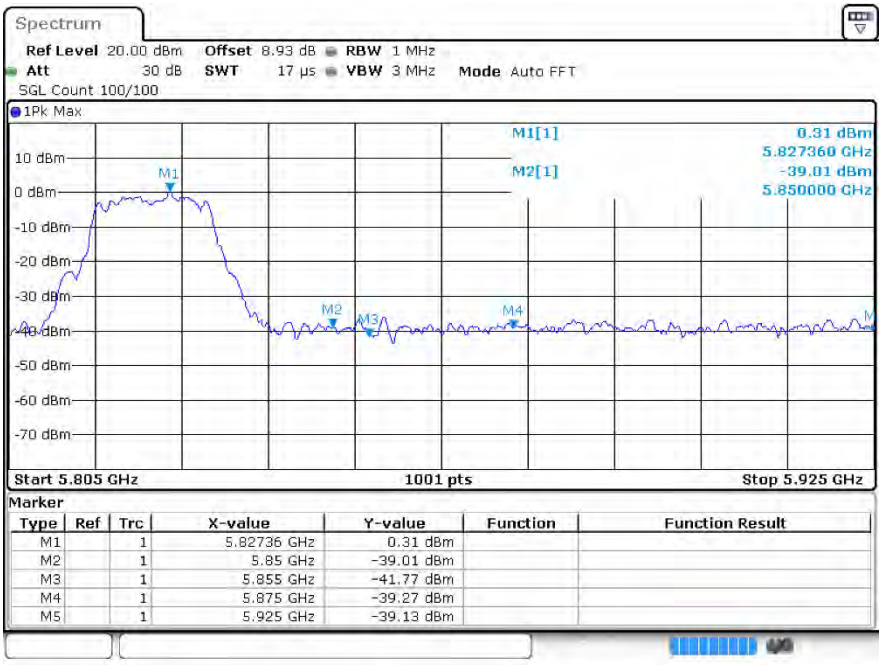
Restrict Band a 5745MHz Ant1 Peak



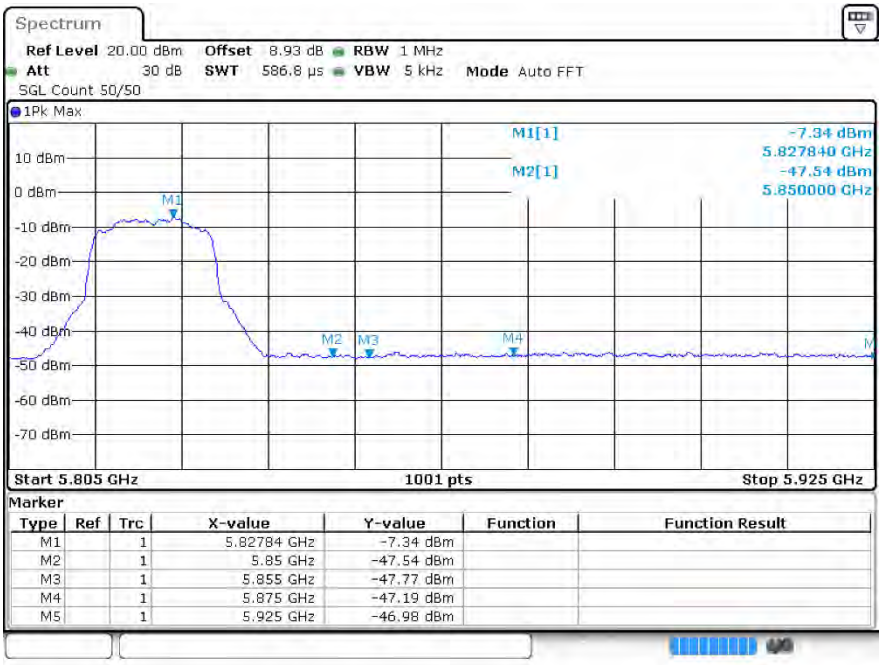
Restrict Band a 5745MHz Ant1 Average



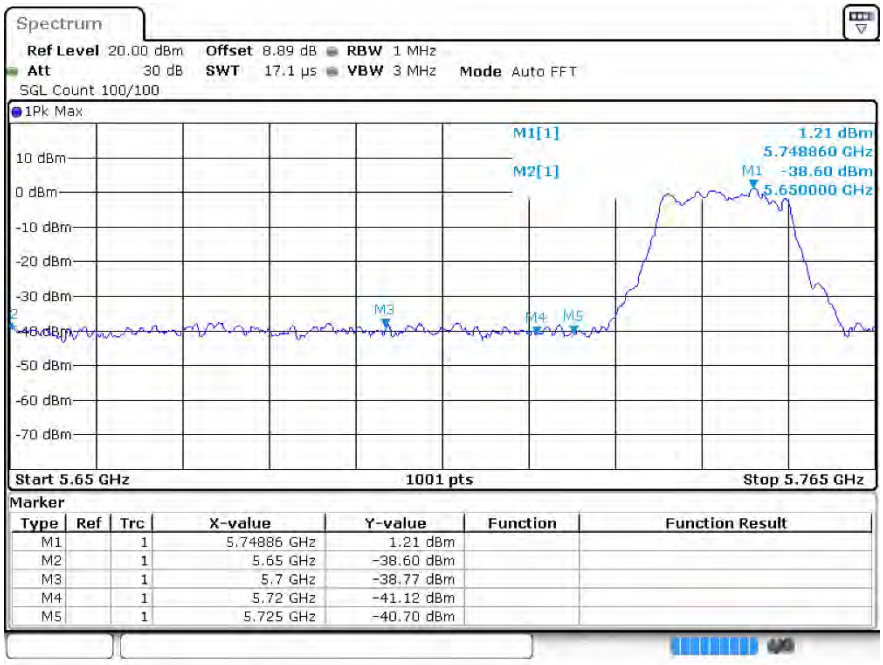
Restrict Band a 5825MHz Ant1 Peak



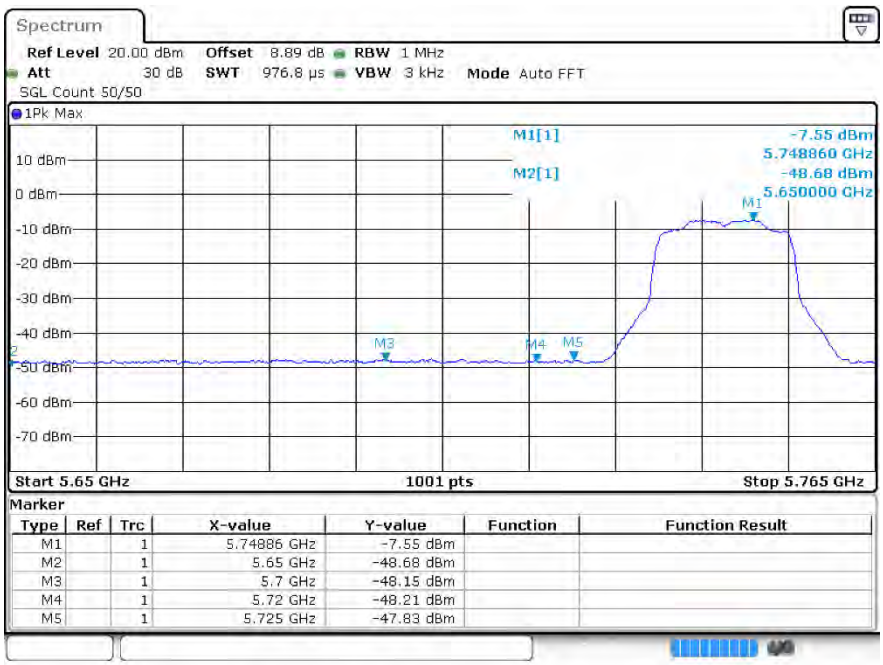
Restrict Band a 5825MHz Ant1 Average



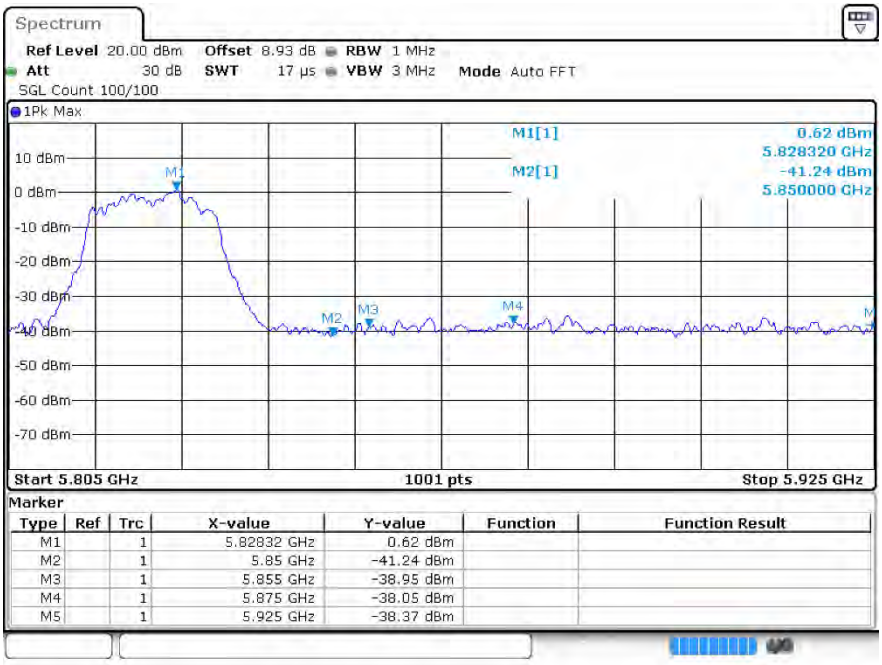
Restrict Band n20 5745MHz Ant1 Peak



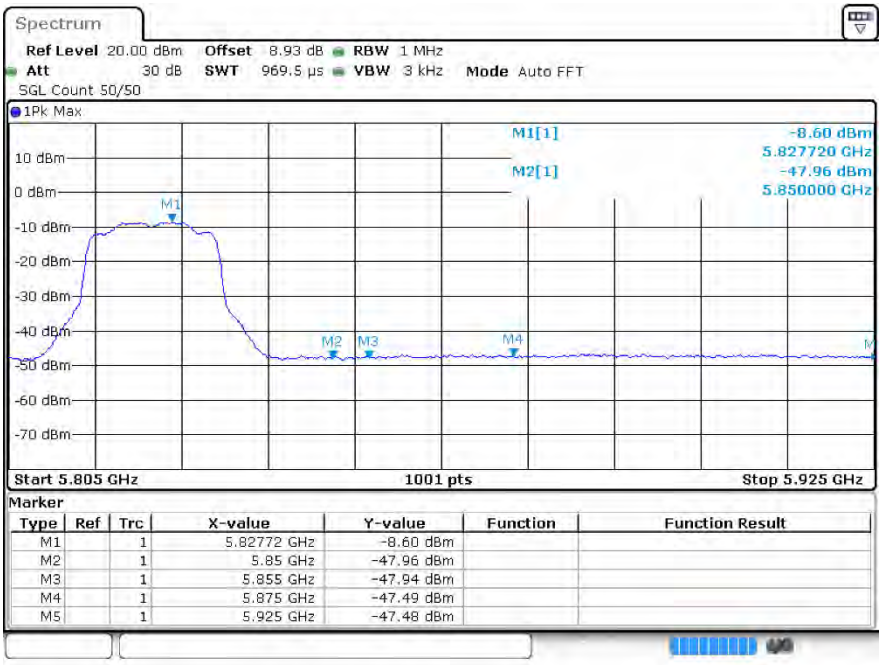
Restrict Band n20 5745MHz Ant1 Average



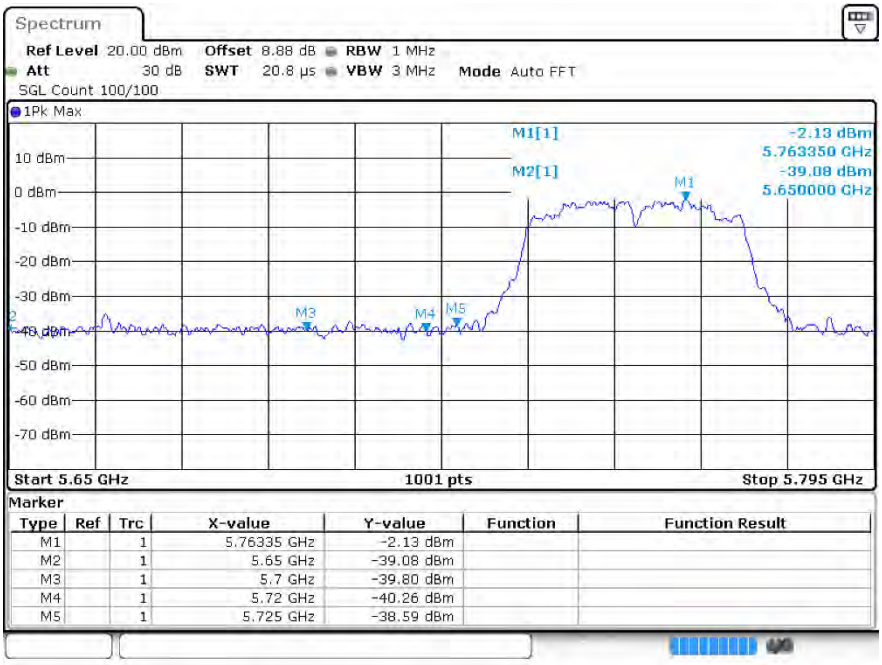
Restrict Band n20 5825MHz Ant1 Peak



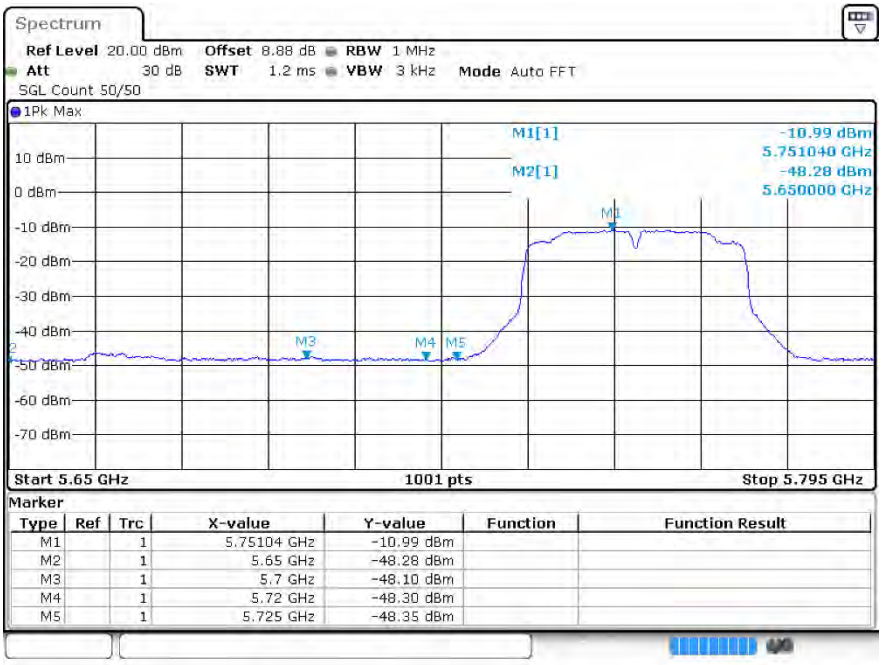
Restrict Band n20 5825MHz Ant1 Average



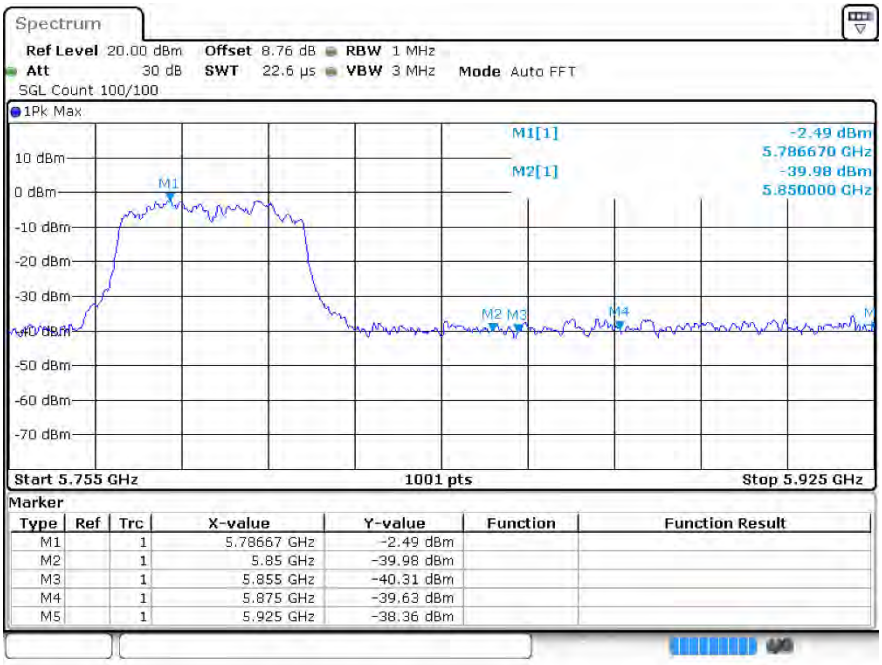
Restrict Band n40 5755MHz Ant1 Peak



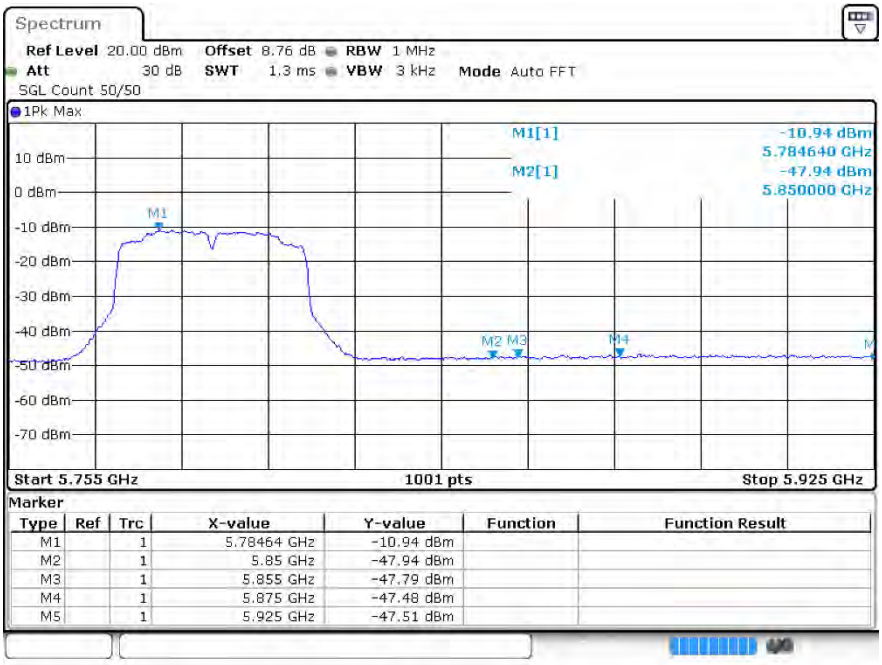
Restrict Band n40 5755MHz Ant1 Average



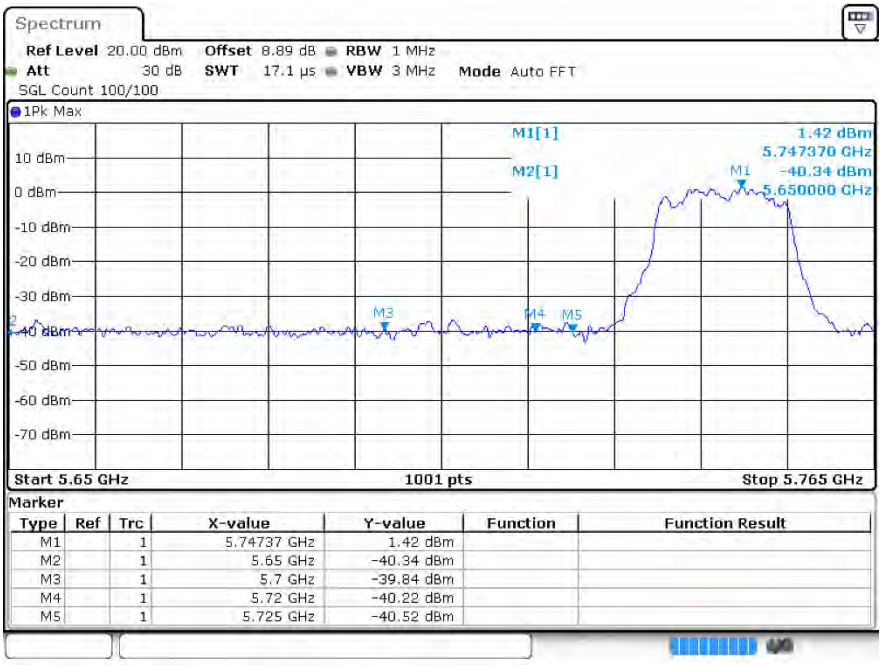
Restrict Band n40 5795MHz Ant1 Peak



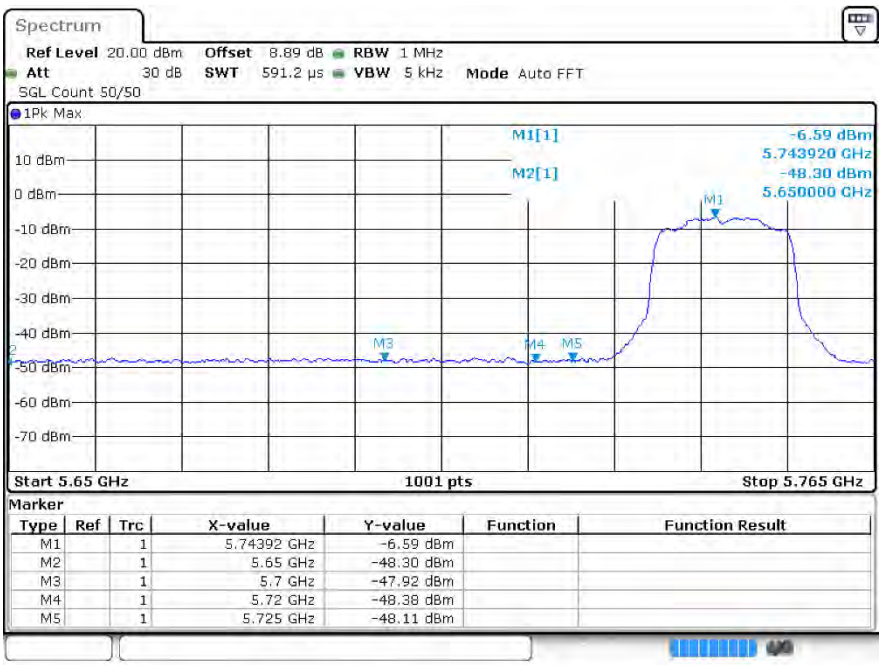
Restrict Band n40 5795MHz Ant1 Average



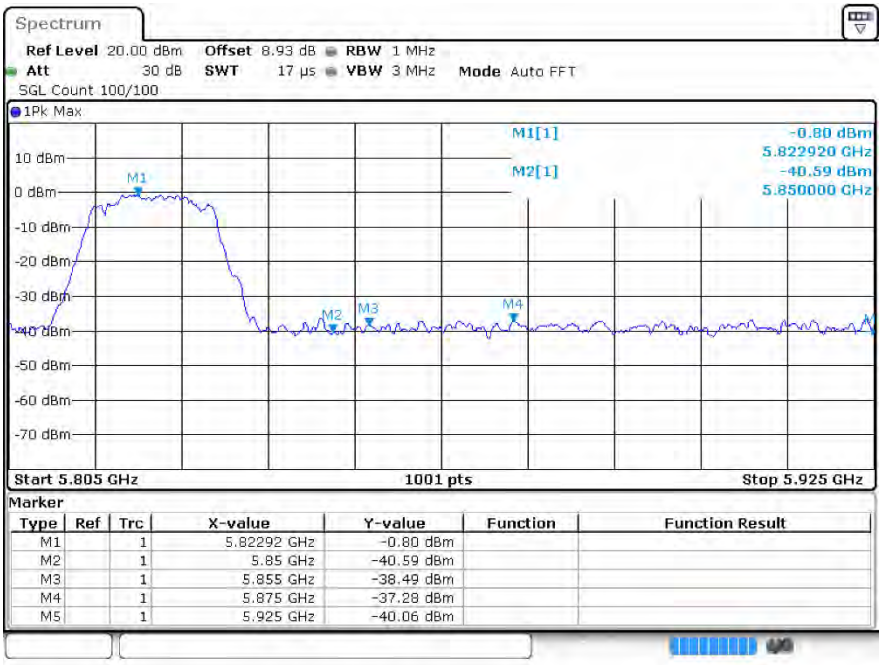
Restrict Band ac20 5745MHz Ant1 Peak



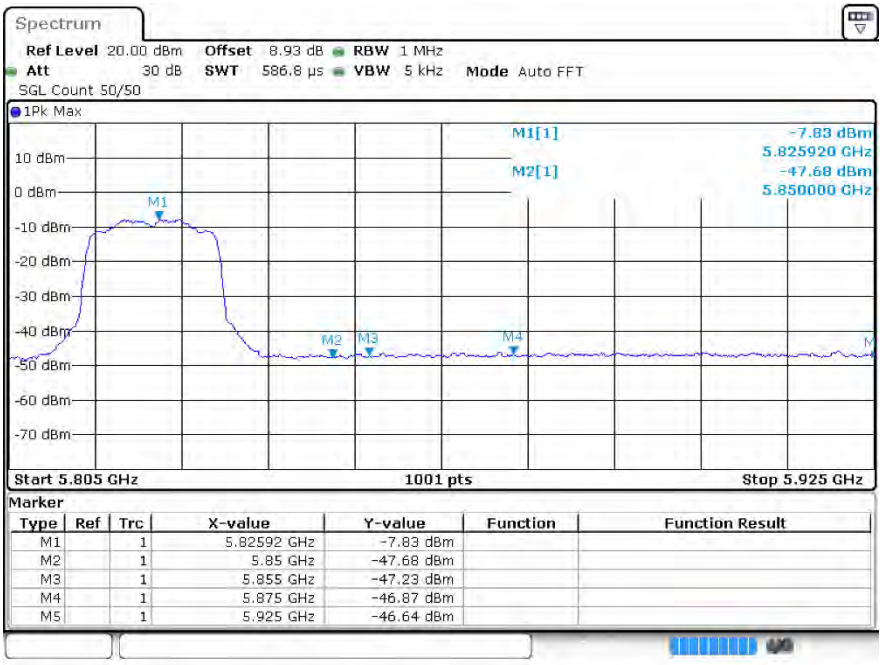
Restrict Band ac20 5745MHz Ant1 Average



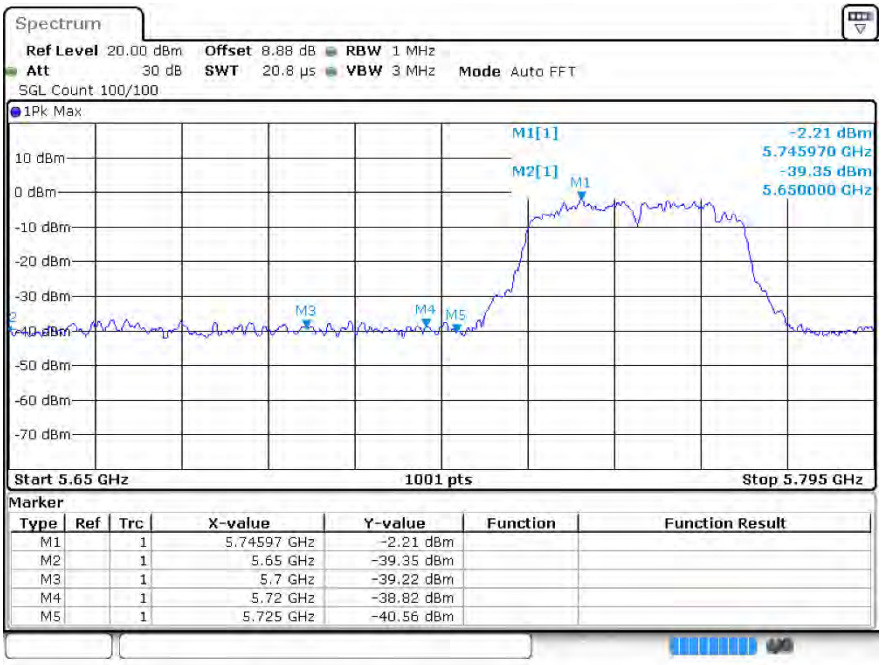
Restrict Band ac20 5825MHz Ant1 Peak



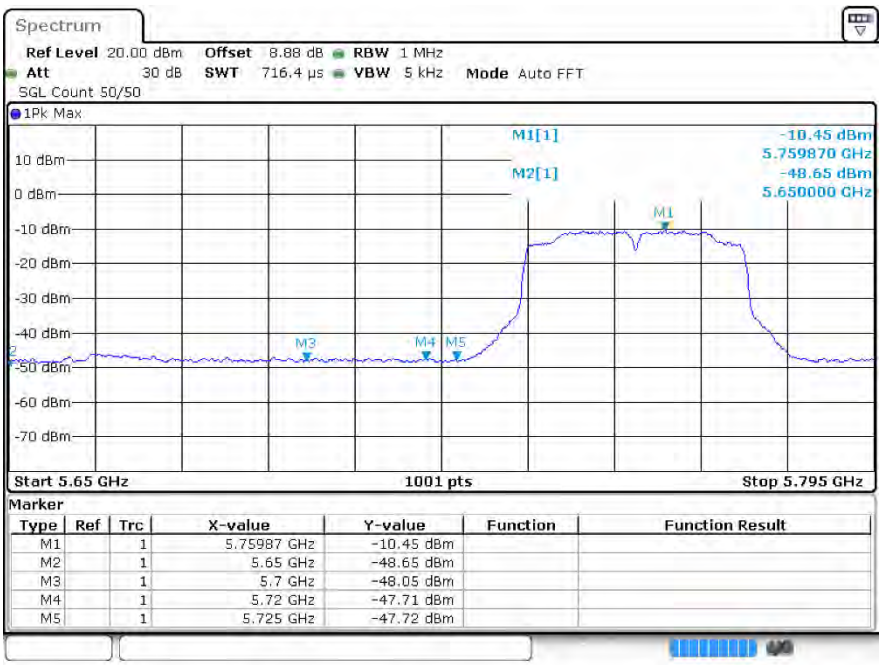
Restrict Band ac20 5825MHz Ant1 Average



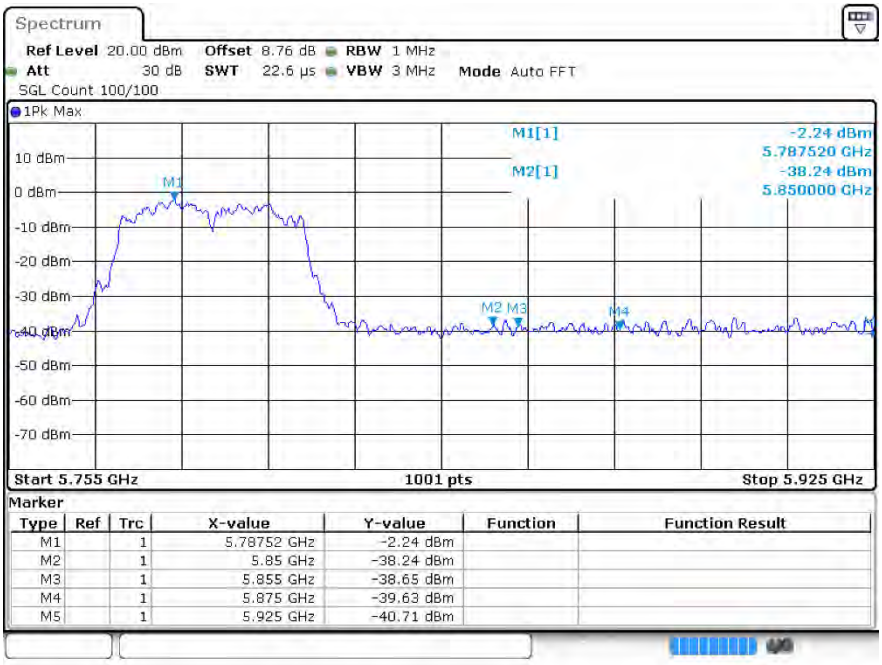
Restrict Band ac40 5755MHz Ant1 Peak



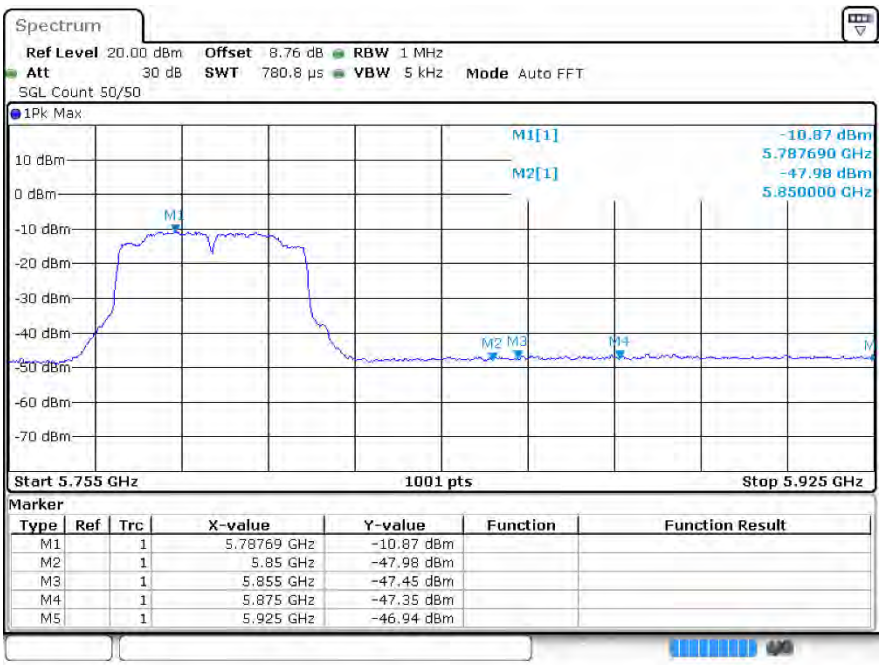
Restrict Band ac40 5755MHz Ant1 Average



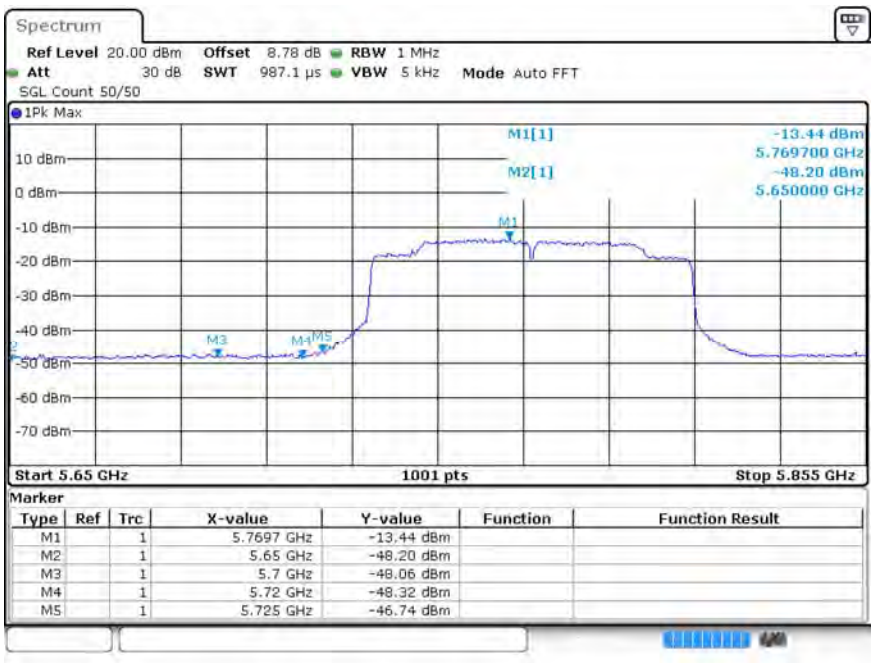
Restrict Band ac40 5795MHz Ant1 Peak



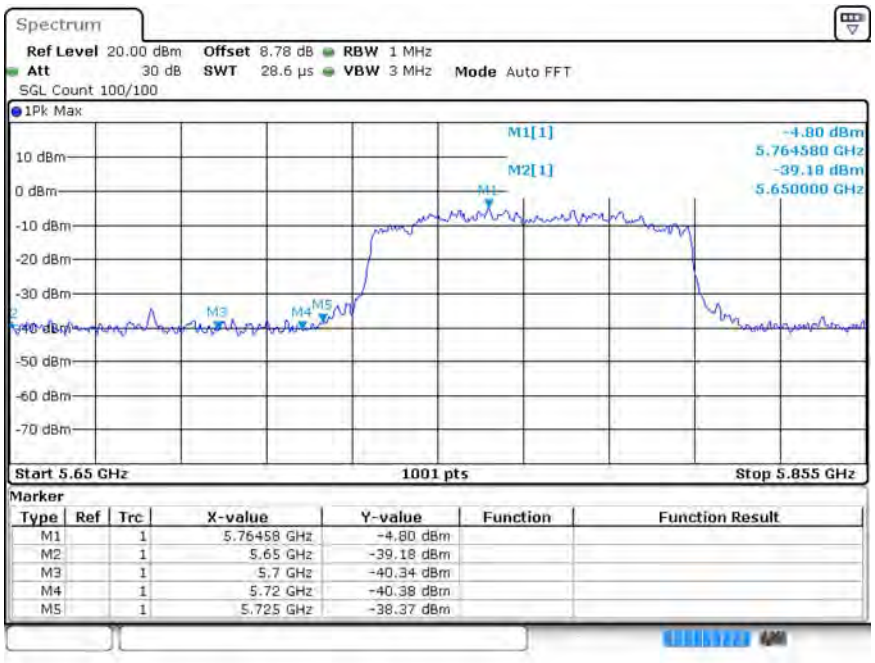
Restrict Band ac40 5795MHz Ant1 Average



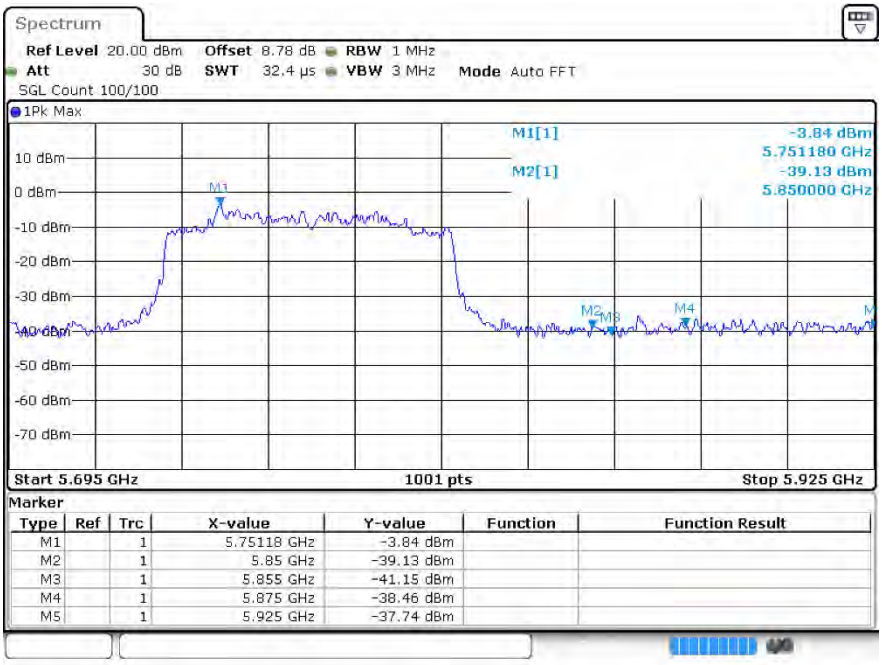
Restrict Band ac80 5775MHz Ant1 Peak



Restrict Band ac80 5775MHz Ant1 Average



Restrict Band ac80 5775MHz Ant1 Peak



Restrict Band ac80 5775MHz Ant1 Average