



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Interactive Flat Panel

Trade Mark: INDOTA

Test Model: IN-TVH6B

Environmental Conditions

Temperature:	25.3° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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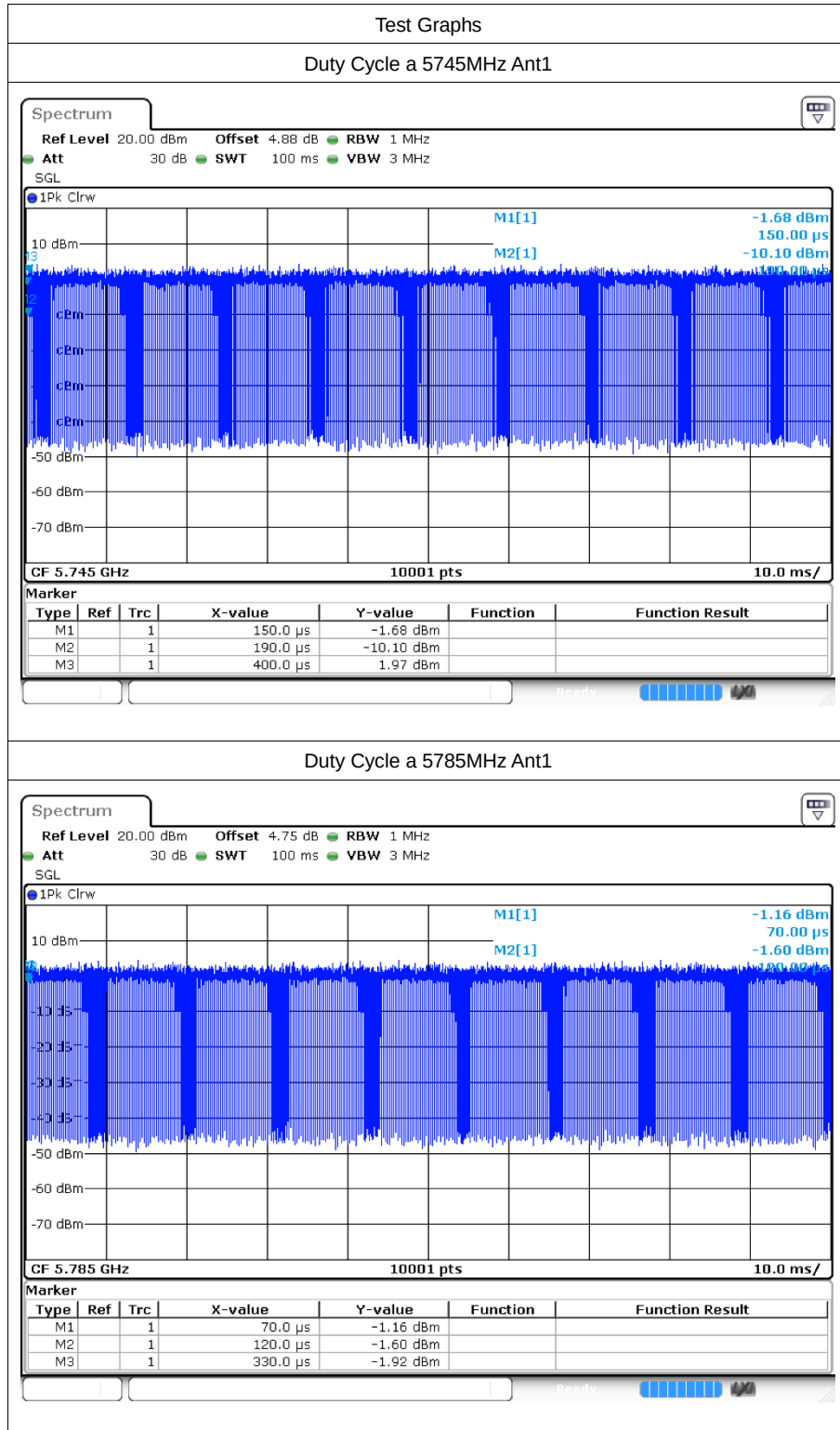


1 Duty Cycle

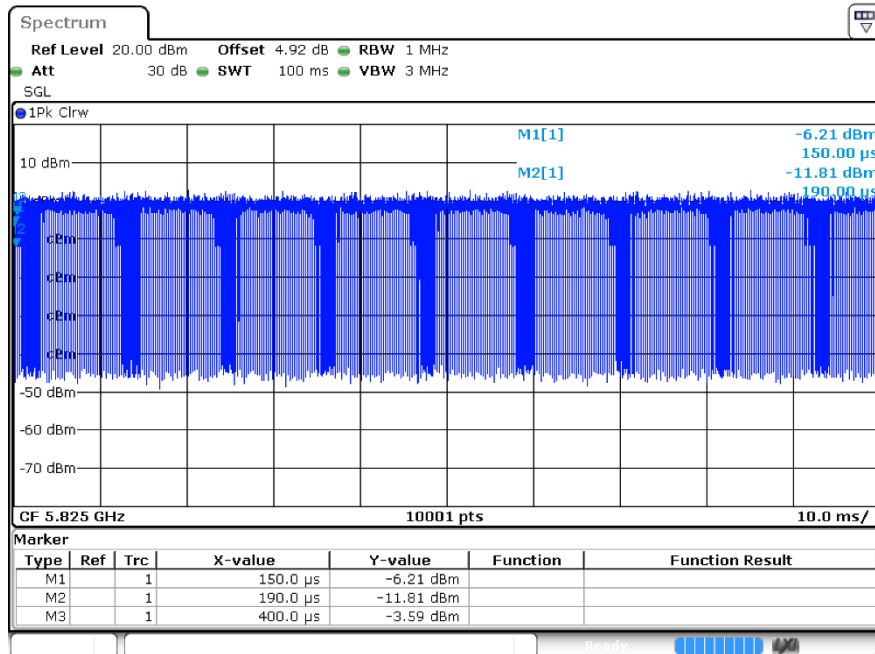
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	86.9	0.61	4.76
a	5785	Ant1	86.85	0.61	4.76
a	5825	Ant1	86.94	0.61	4.76
a	5745	Ant2	86.9	0.61	4.76
a	5785	Ant2	86.99	0.61	4.55
a	5825	Ant2	87	0.6	4.76
n20	5745	Ant1	93.03	0.31	2.22
n20	5785	Ant1	92.95	0.32	2.22
n20	5825	Ant1	93	0.32	2.22
n20	5745	Ant2	93.04	0.31	2.22
n20	5785	Ant2	93.05	0.31	2.27
n20	5825	Ant2	93.03	0.31	2.22
n40	5755	Ant1	92.92	0.32	2.27
n40	5795	Ant1	92.87	0.32	2.27
n40	5755	Ant2	92.03	0.36	2.27
n40	5795	Ant2	91.36	0.39	2.27
ac20	5745	Ant1	88.24	0.54	4
ac20	5785	Ant1	88.23	0.54	4
ac20	5825	Ant1	88.16	0.55	4
ac20	5745	Ant2	88.26	0.54	4
ac20	5785	Ant2	87.93	0.56	4
ac20	5825	Ant2	88.23	0.54	4
ac40	5755	Ant1	86.93	0.61	4.55
ac40	5795	Ant1	87.35	0.59	4.35
ac40	5755	Ant2	84.36	0.74	4.55
ac40	5795	Ant2	84.35	0.74	4.55
ac80	5775	Ant1	86.97	0.61	4.35
ac80	5775	Ant2	81.07	0.91	4.55

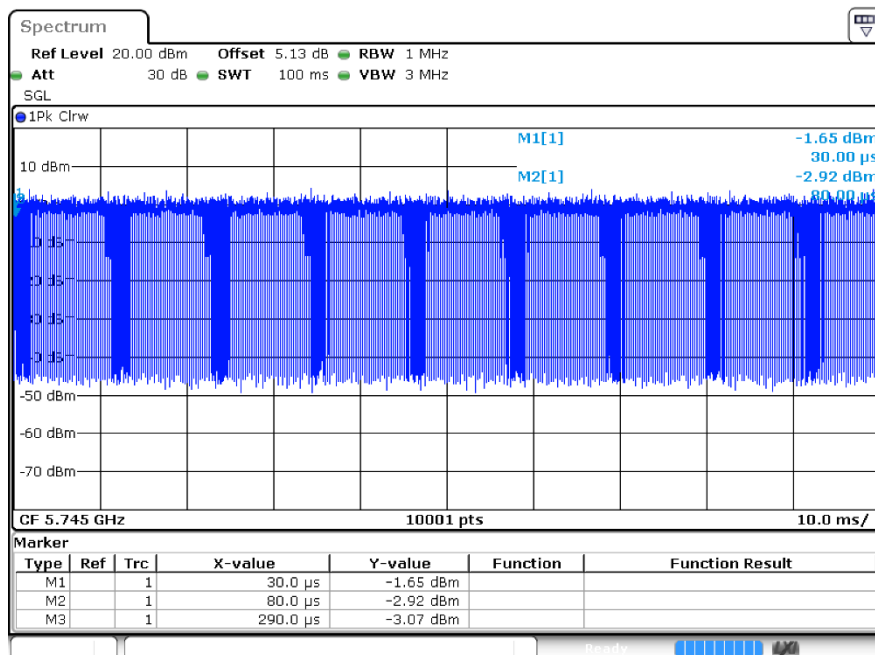
1.2 Test Graphs



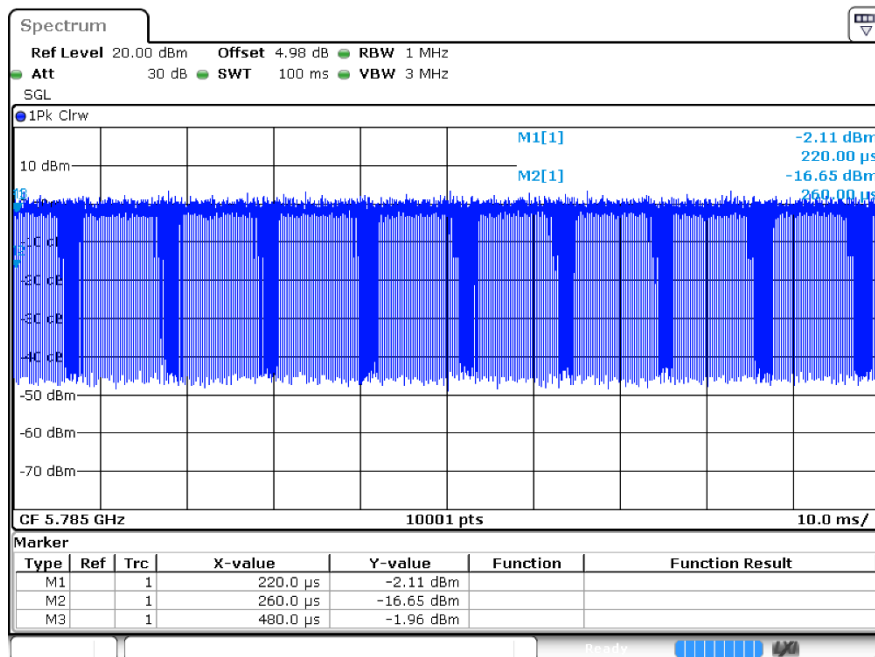
Duty Cycle a 5825MHz Ant1



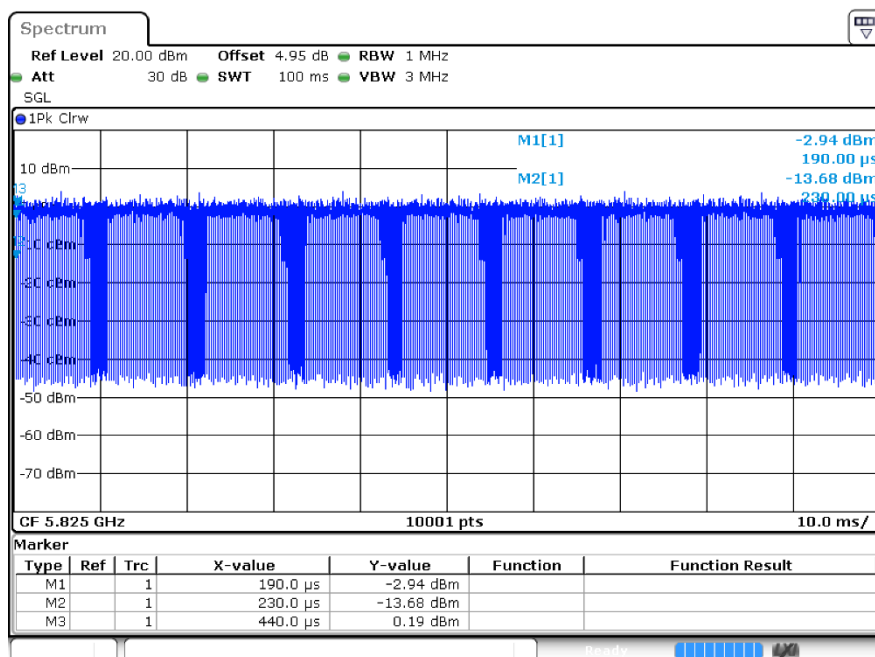
Duty Cycle a 5745MHz Ant2



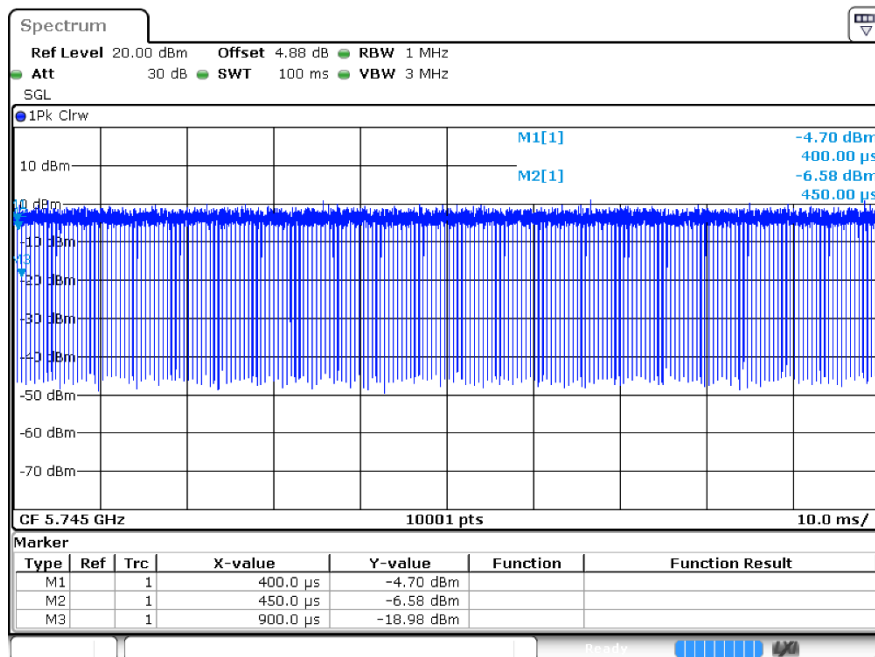
Duty Cycle a 5785MHz Ant2



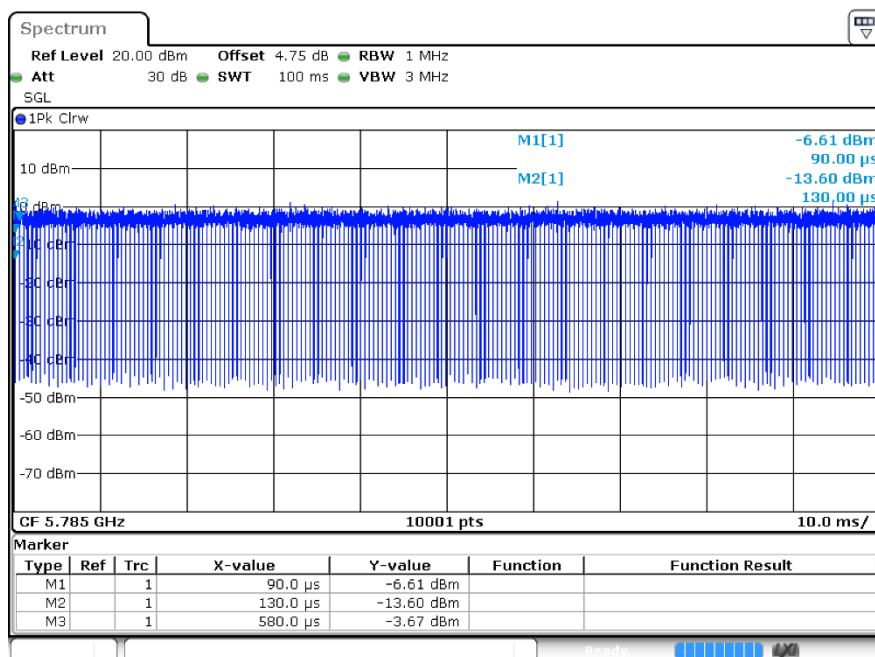
Duty Cycle a 5825MHz Ant2



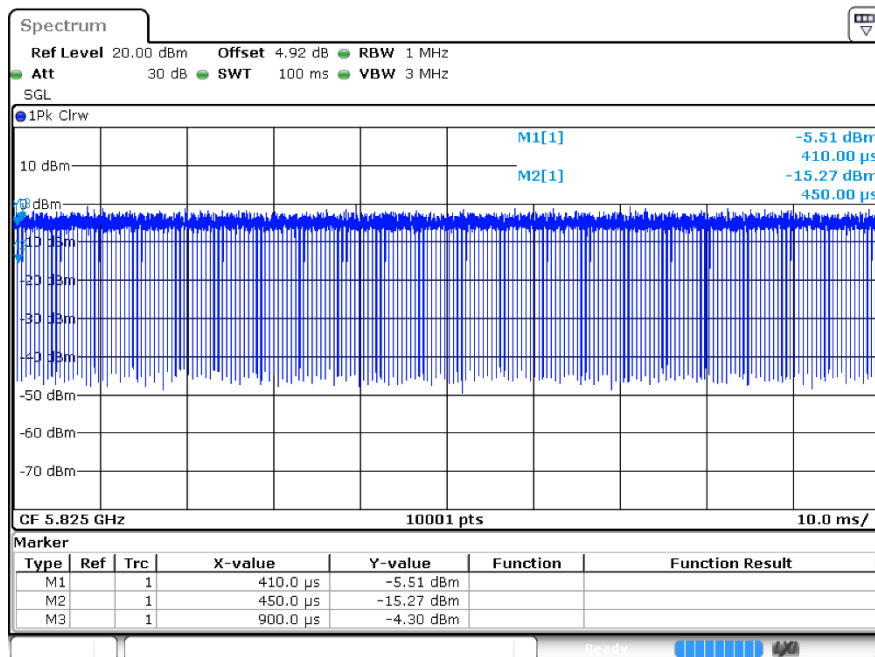
Duty Cycle n20 5745MHz Ant1



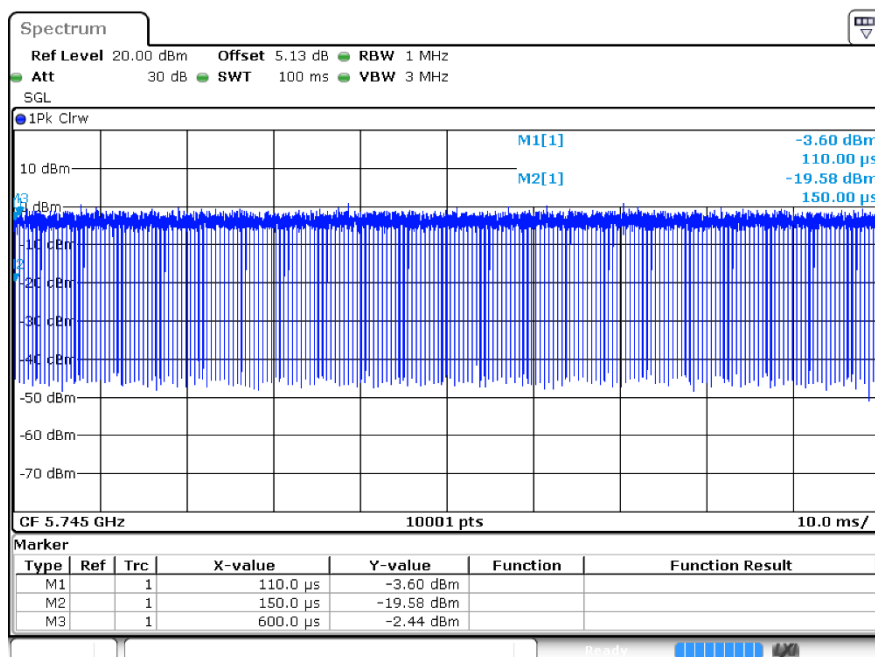
Duty Cycle n20 5785MHz Ant1



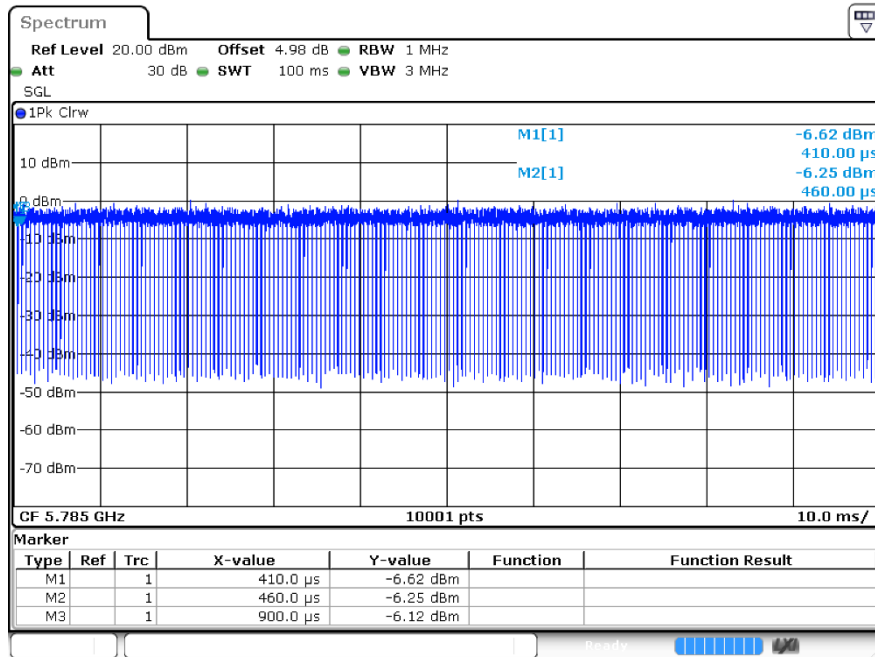
Duty Cycle n20 5825MHz Ant1



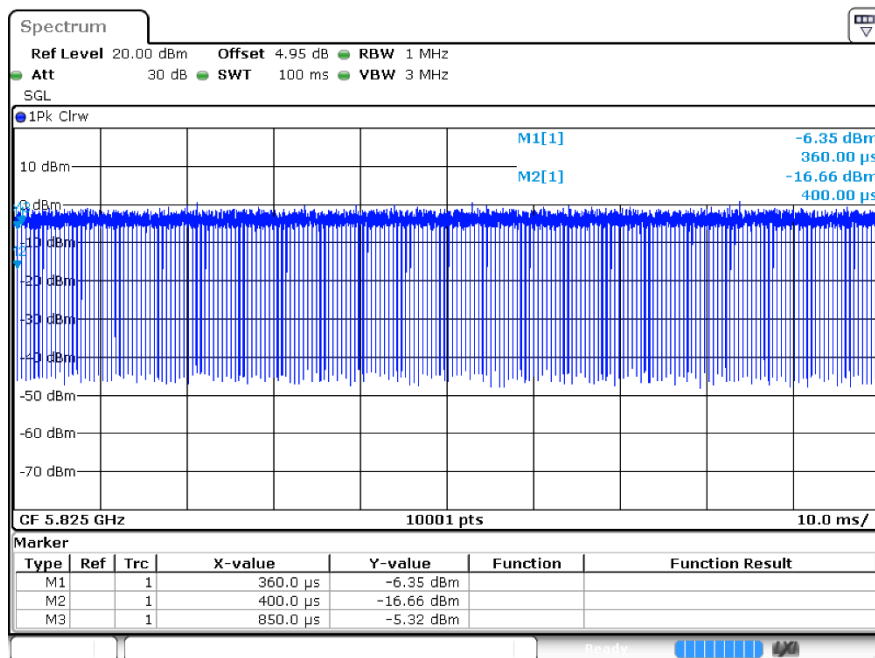
Duty Cycle n20 5745MHz Ant2



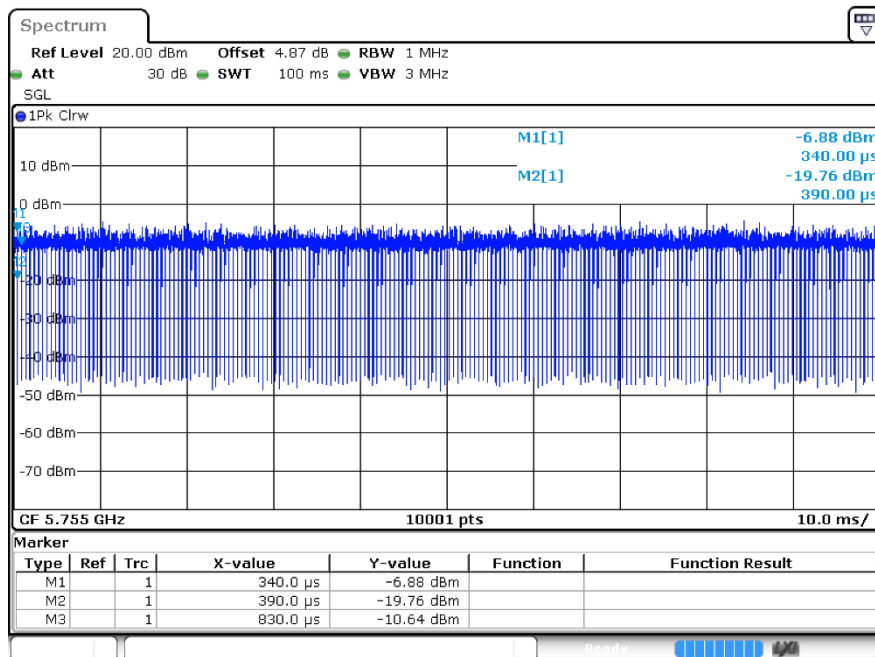
Duty Cycle n20 5785MHz Ant2



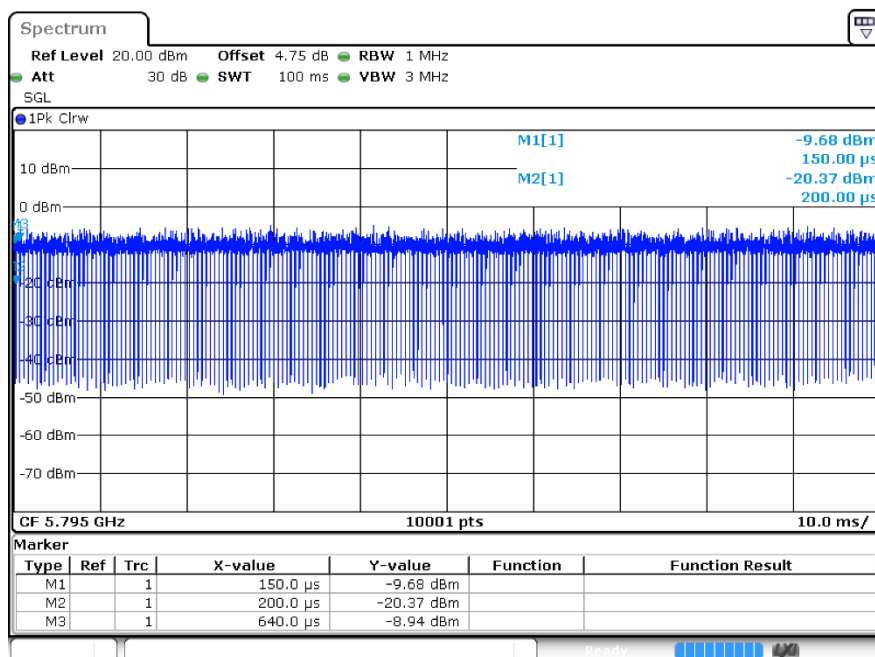
Duty Cycle n20 5825MHz Ant2



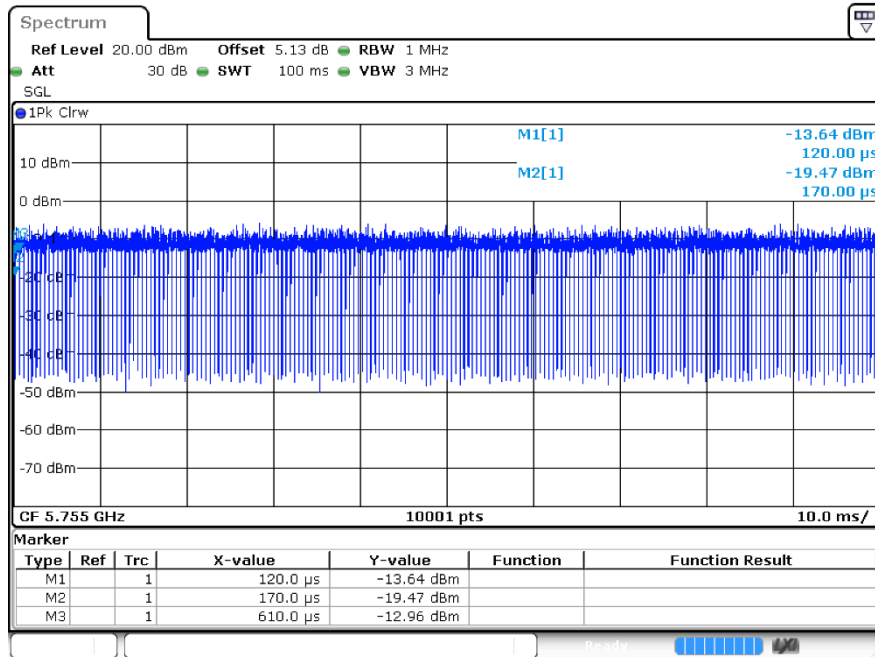
Duty Cycle n40 5755MHz Ant1



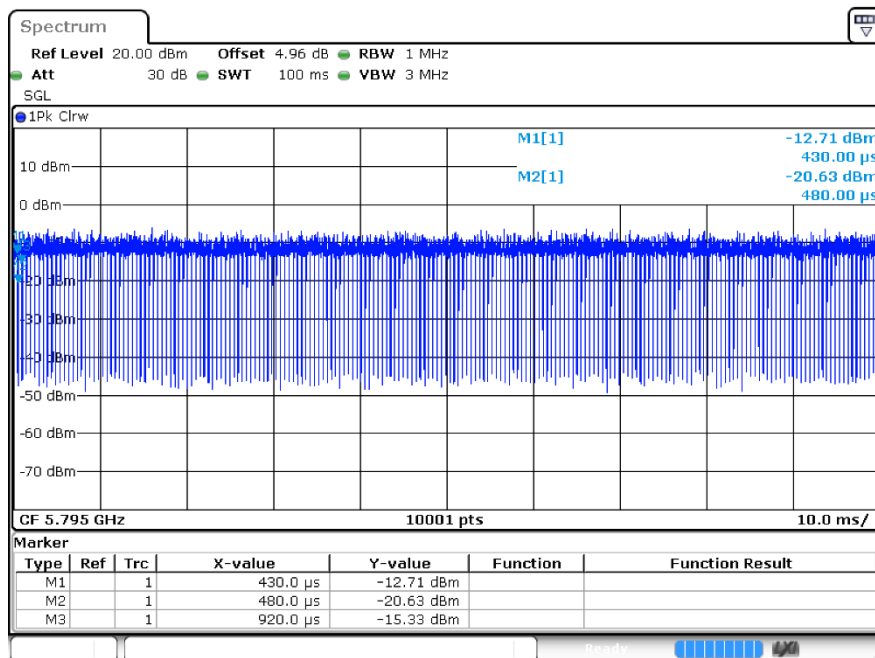
Duty Cycle n40 5795MHz Ant1



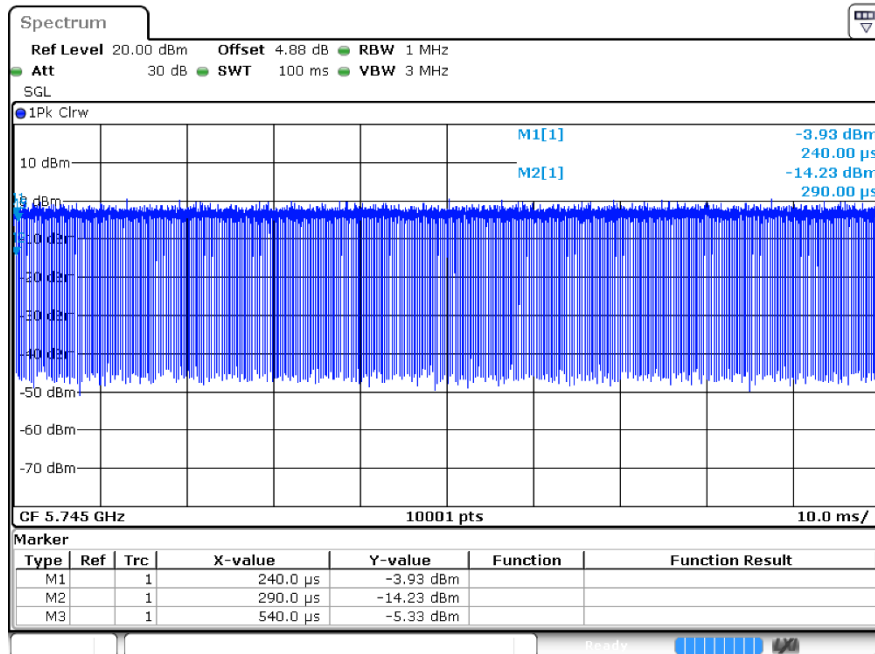
Duty Cycle n40 5755MHz Ant2



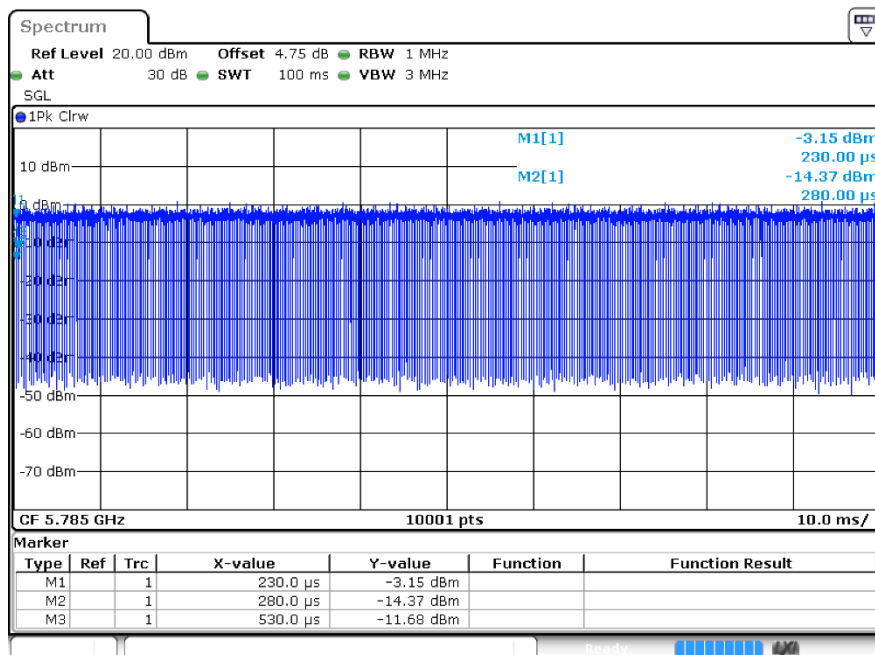
Duty Cycle n40 5795MHz Ant2



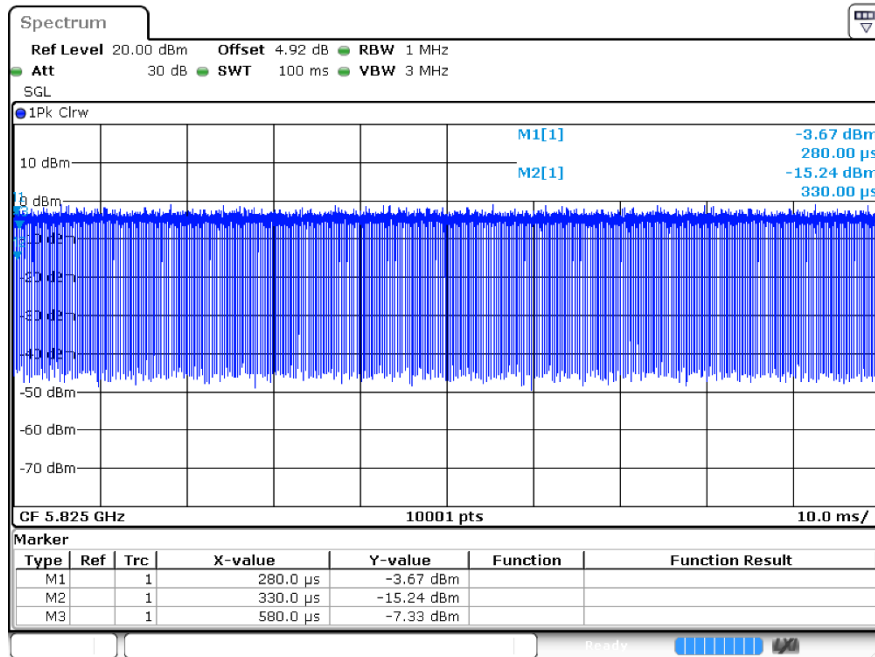
Duty Cycle ac20 5745MHz Ant1



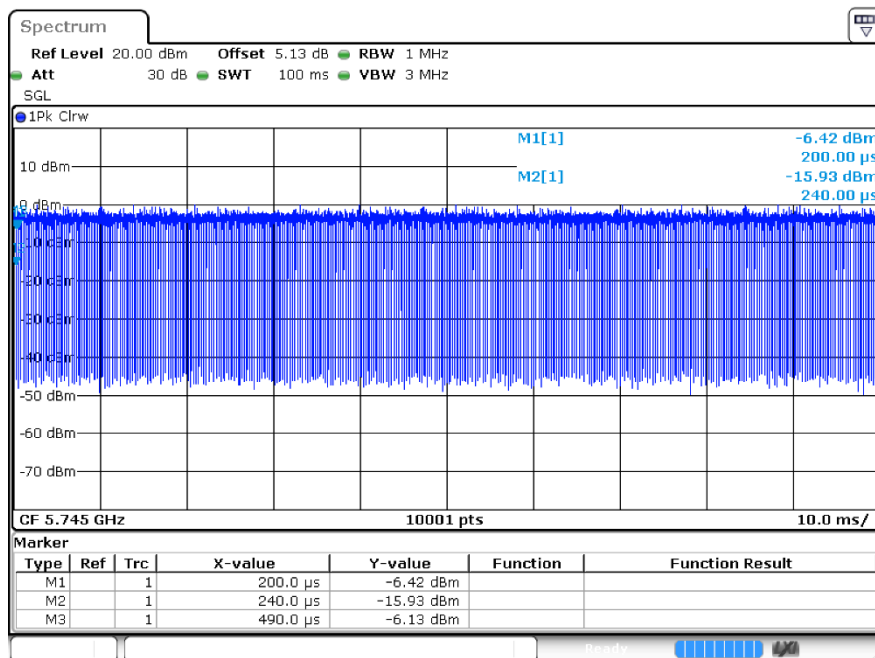
Duty Cycle ac20 5785MHz Ant1



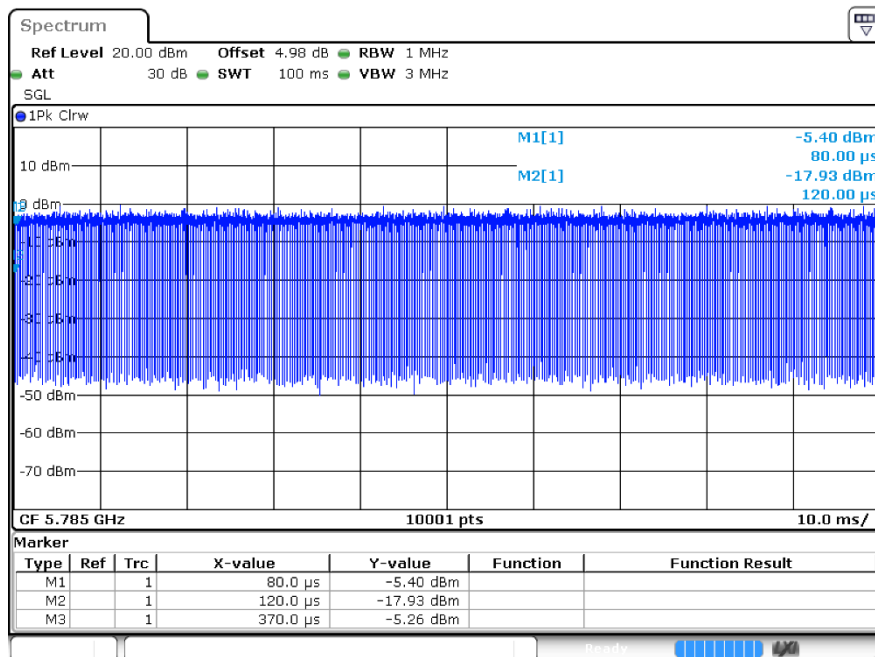
Duty Cycle ac20 5825MHz Ant1



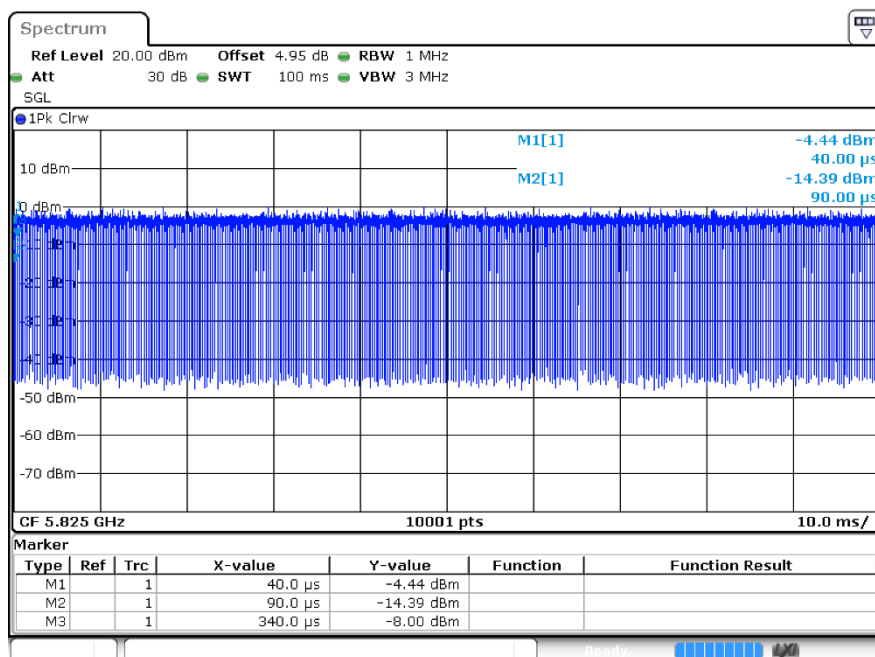
Duty Cycle ac20 5745MHz Ant2



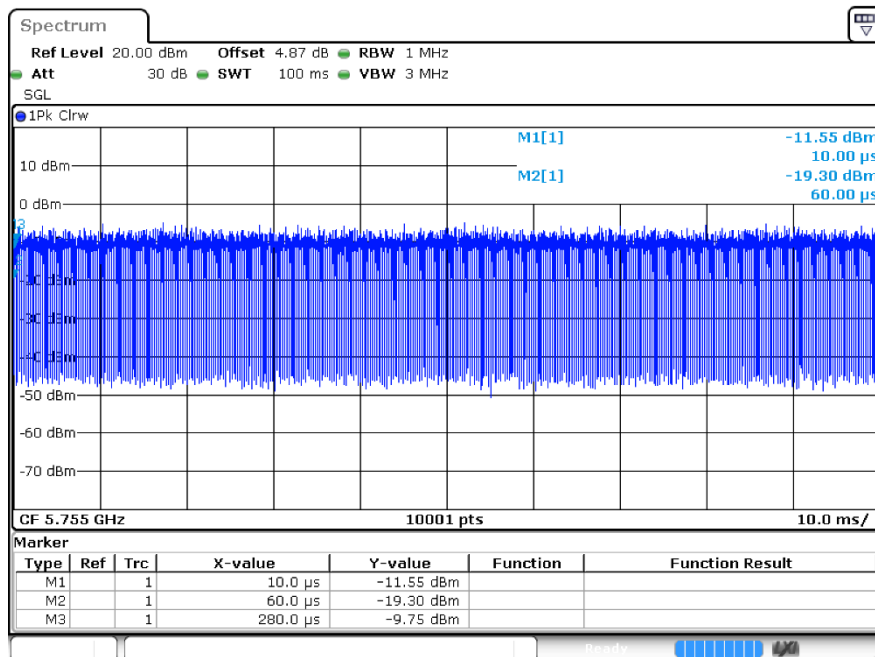
Duty Cycle ac20 5785MHz Ant2



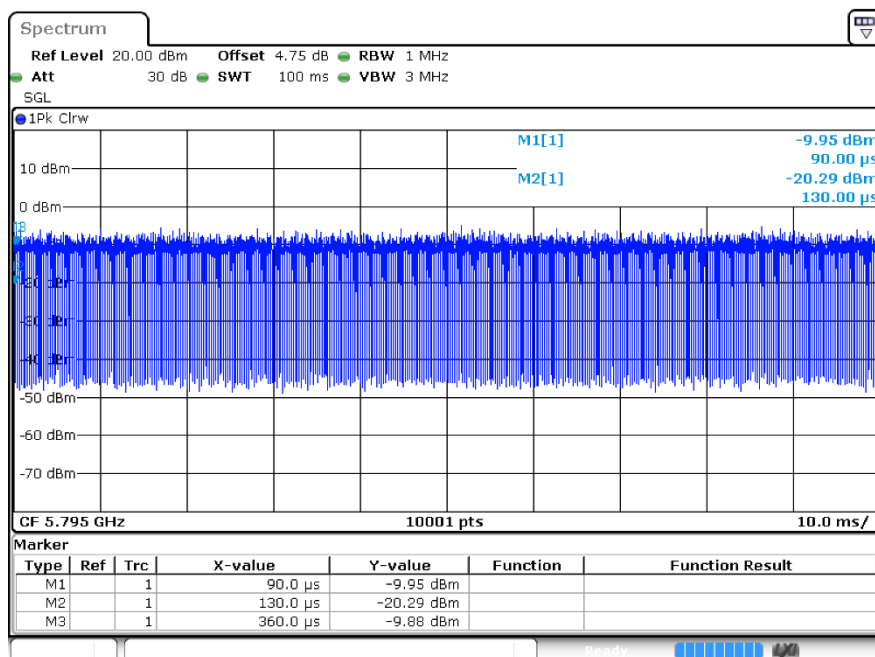
Duty Cycle ac20 5825MHz Ant2



Duty Cycle ac40 5755MHz Ant1



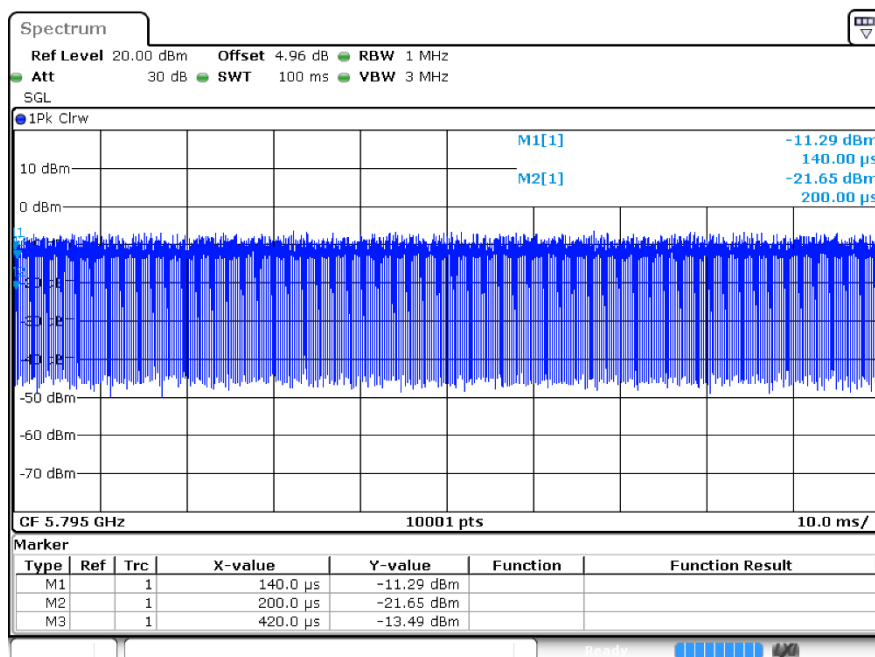
Duty Cycle ac40 5795MHz Ant1



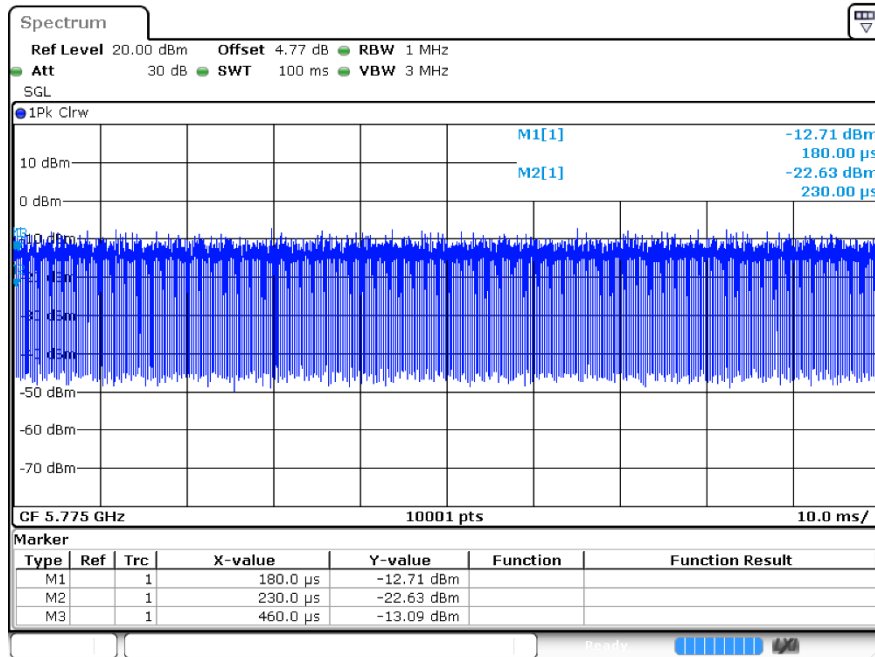
Duty Cycle ac40 5755MHz Ant2



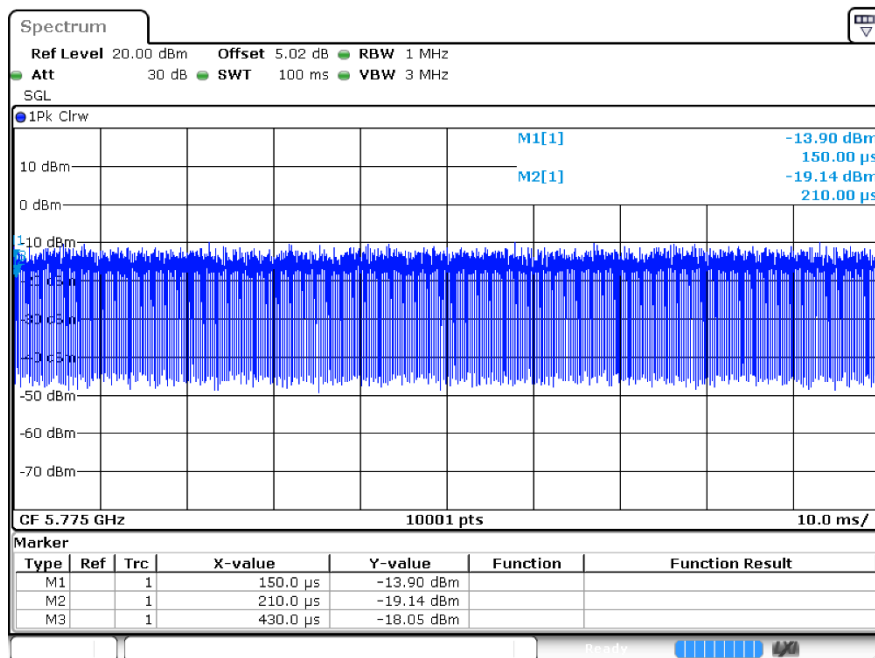
Duty Cycle ac40 5795MHz Ant2



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)	Limit (dBm)	Verdict
a	5745	Ant1	10.48	30	Pass
a	5785	Ant1	10.83	30	Pass
a	5825	Ant1	9.34	30	Pass
a	5745	Ant2	10.52	30	Pass
a	5785	Ant2	9.82	30	Pass
a	5825	Ant2	10.37	30	Pass
n20	5745	Ant1	7.12	30	Pass
n20	5745	Ant2	6.89	30	Pass
n20	5745	Sum	10.02	28.49	Pass
n20	5785	Ant1	7.24	30	Pass
n20	5785	Ant2	6.14	30	Pass
n20	5785	Sum	9.74	28.49	Pass
n20	5825	Ant1	5.79	30	Pass
n20	5825	Ant2	6.66	30	Pass
n20	5825	Sum	9.26	28.49	Pass
n40	5755	Ant1	7.27	30	Pass
n40	5755	Ant2	6.41	30	Pass
n40	5755	Sum	9.87	28.49	Pass
n40	5795	Ant1	6.81	30	Pass
n40	5795	Ant2	6.06	30	Pass
n40	5795	Sum	9.46	28.49	Pass
ac20	5745	Ant1	7.13	30	Pass
ac20	5745	Ant2	6.9	30	Pass
ac20	5745	Sum	10.03	28.49	Pass
ac20	5785	Ant1	7.43	30	Pass
ac20	5785	Ant2	6.26	30	Pass
ac20	5785	Sum	9.89	28.49	Pass
ac20	5825	Ant1	5.87	30	Pass
ac20	5825	Ant2	6.64	30	Pass
ac20	5825	Sum	9.28	28.49	Pass
ac40	5755	Ant1	7.17	30	Pass
ac40	5755	Ant2	6.64	30	Pass
ac40	5755	Sum	9.92	28.49	Pass
ac40	5795	Ant1	6.84	30	Pass
ac40	5795	Ant2	6.4	30	Pass
ac40	5795	Sum	9.64	28.49	Pass



ac80	5775	Ant1	6.39	30	Pass
ac80	5775	Ant2	5.65	30	Pass
ac80	5775	Sum	9.05	28.49	Pass

The Duty Cycle Factor Factor was compensated.

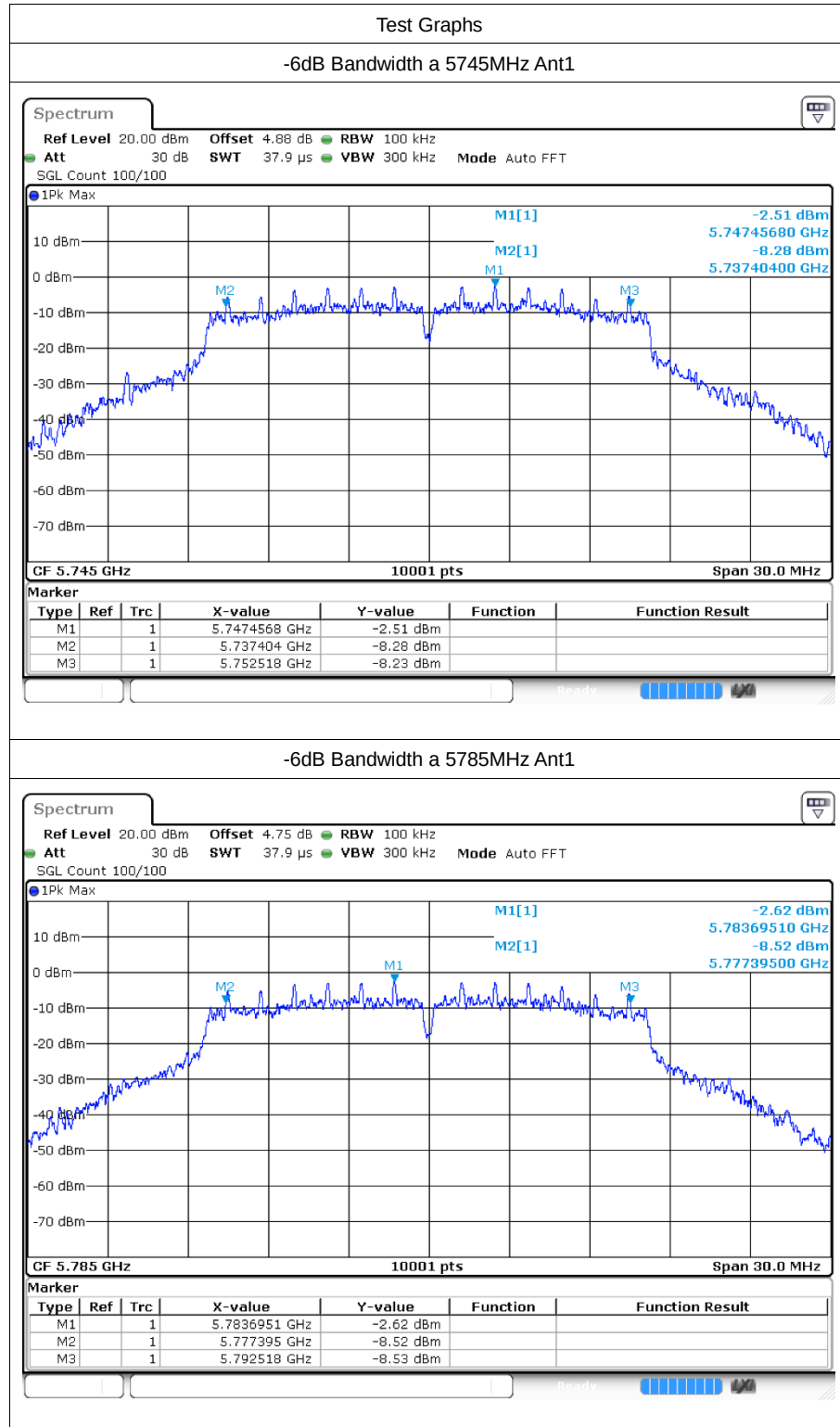


3 -6dB Bandwidth

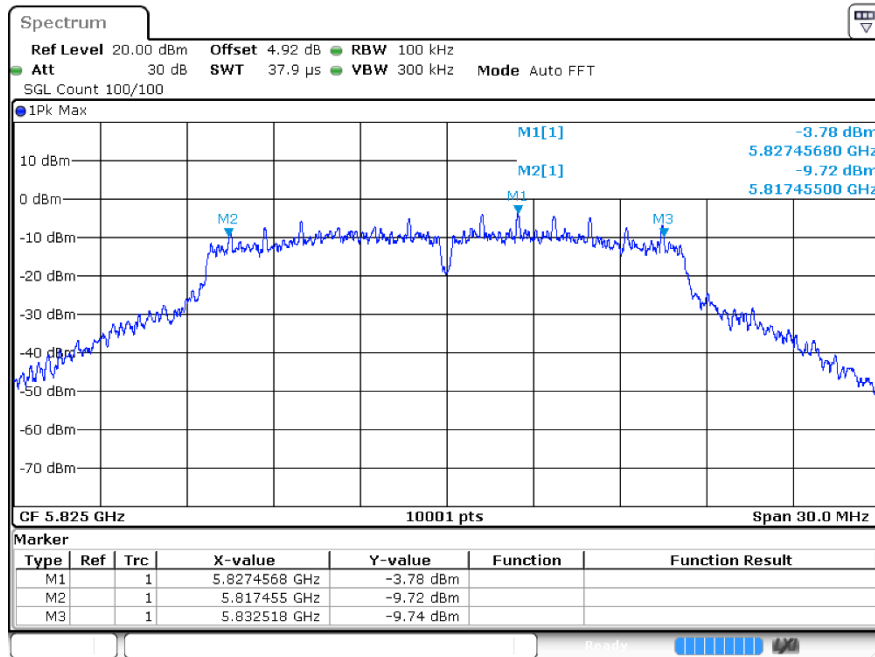
3.1 Test Result

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	15.063	0.5	Pass
n20	5745	Ant1	14.994	0.5	Pass
n20	5785	Ant1	15.108	0.5	Pass
n20	5825	Ant1	15.111	0.5	Pass
n40	5755	Ant1	35.034	0.5	Pass
n40	5795	Ant1	35.07	0.5	Pass
ac20	5745	Ant1	15.702	0.5	Pass
ac20	5785	Ant1	15.105	0.5	Pass
ac20	5825	Ant1	15.114	0.5	Pass
ac40	5755	Ant1	35.04	0.5	Pass
ac40	5795	Ant1	30.144	0.5	Pass
ac80	5775	Ant1	71.316	0.5	Pass
a	5745	Ant2	15.111	0.5	Pass
a	5785	Ant2	15.108	0.5	Pass
a	5825	Ant2	15.096	0.5	Pass
n20	5745	Ant2	16.308	0.5	Pass
n20	5785	Ant2	15.111	0.5	Pass
n20	5825	Ant2	16.545	0.5	Pass
n40	5755	Ant2	35.094	0.5	Pass
n40	5795	Ant2	31.344	0.5	Pass
ac20	5745	Ant2	15.099	0.5	Pass
ac20	5785	Ant2	15.114	0.5	Pass
ac20	5825	Ant2	15.135	0.5	Pass
ac40	5755	Ant2	35.058	0.5	Pass
ac40	5795	Ant2	31.344	0.5	Pass
ac80	5775	Ant2	75	0.5	Pass

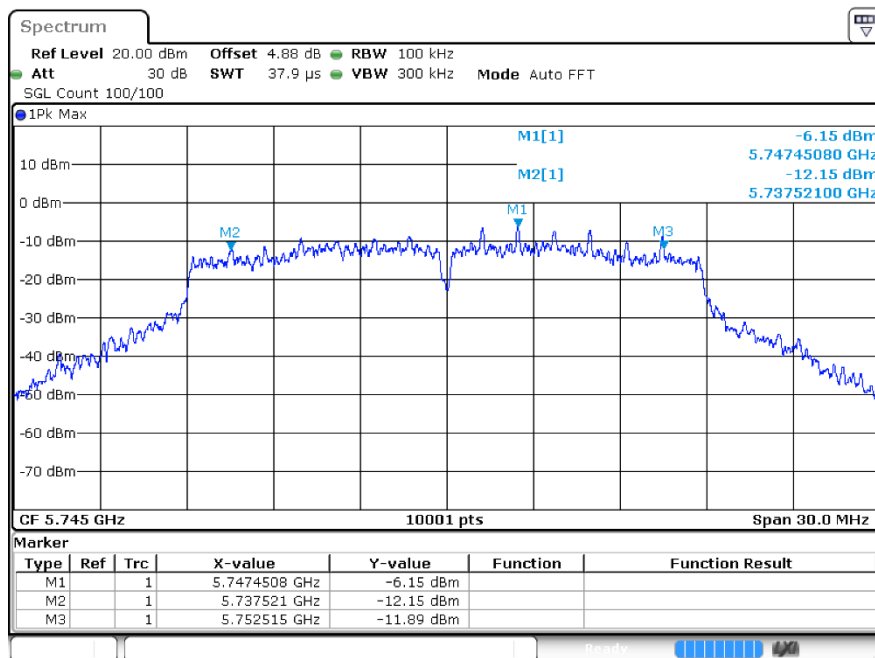
3.2 Test Graphs



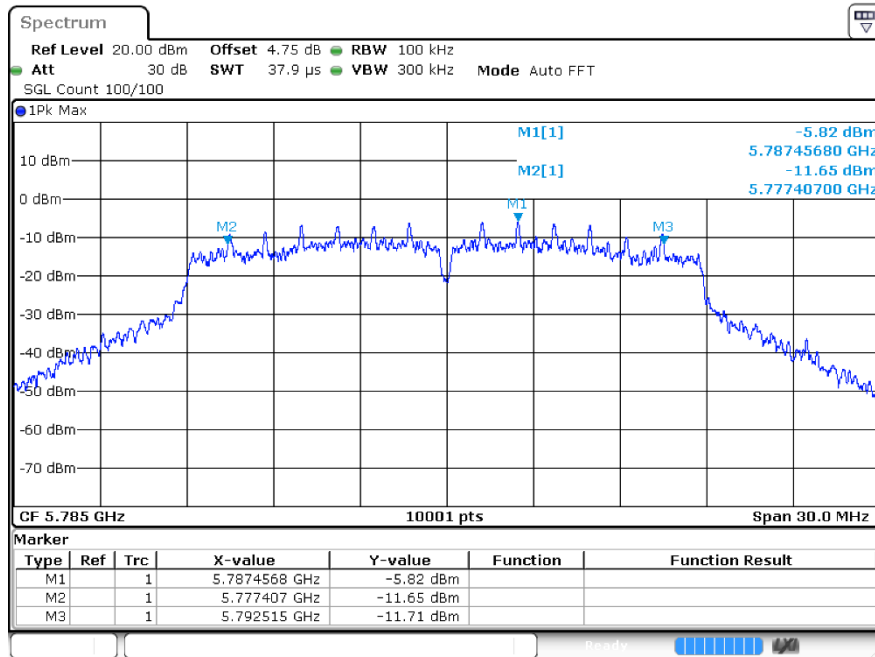
-6dB Bandwidth a 5825MHz Ant1



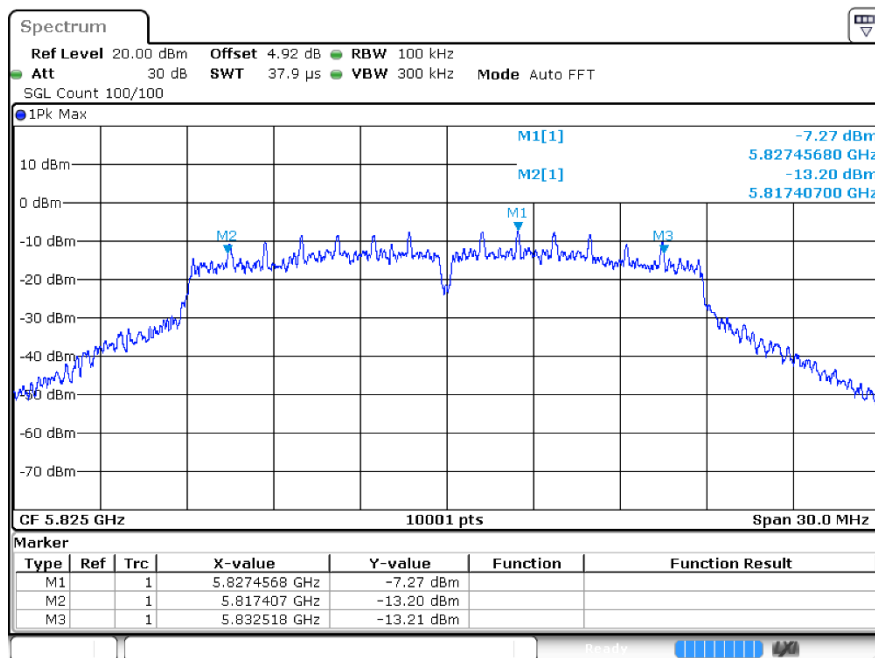
-6dB Bandwidth n20 5745MHz Ant1



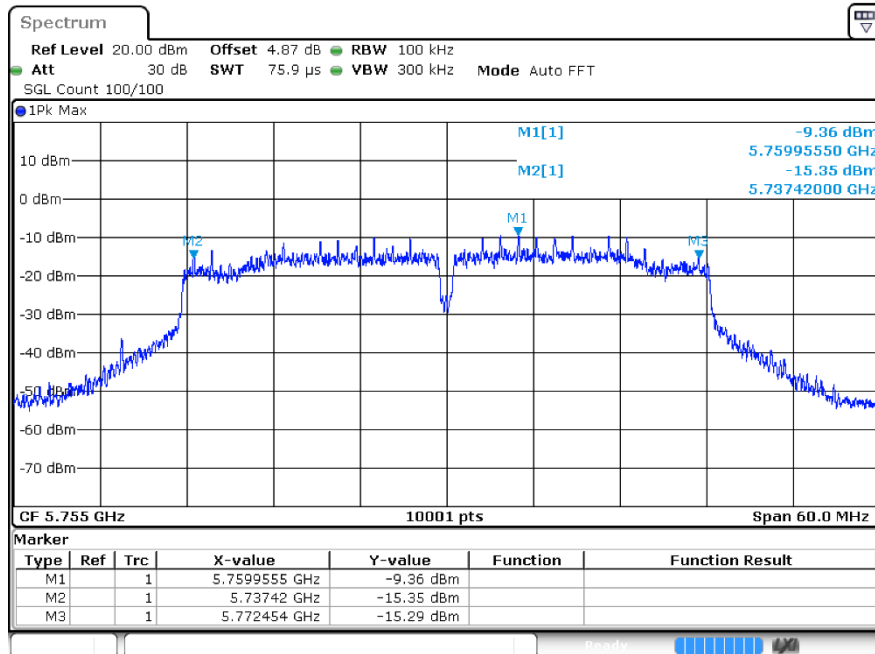
-6dB Bandwidth n20 5785MHz Ant1



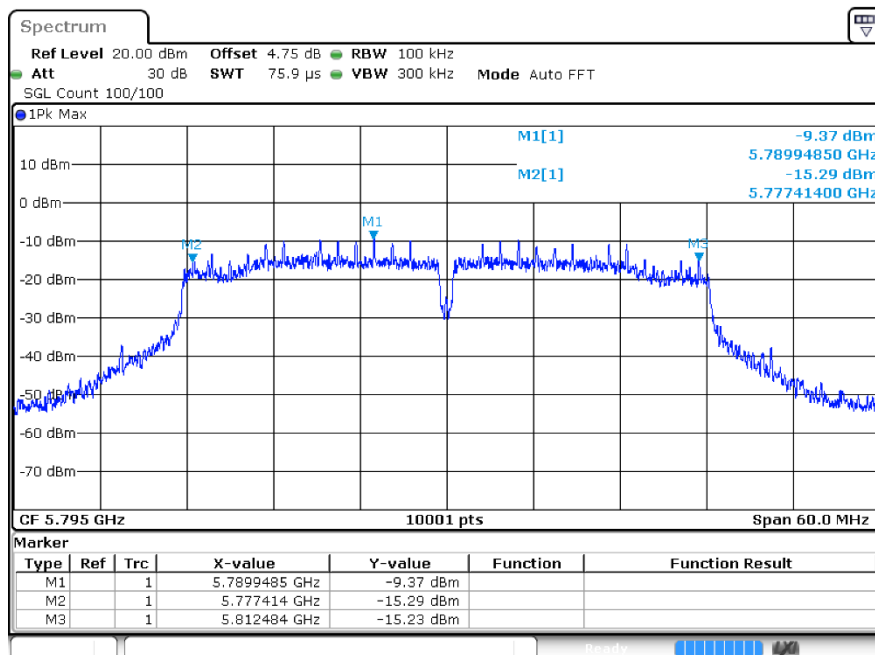
-6dB Bandwidth n20 5825MHz Ant1



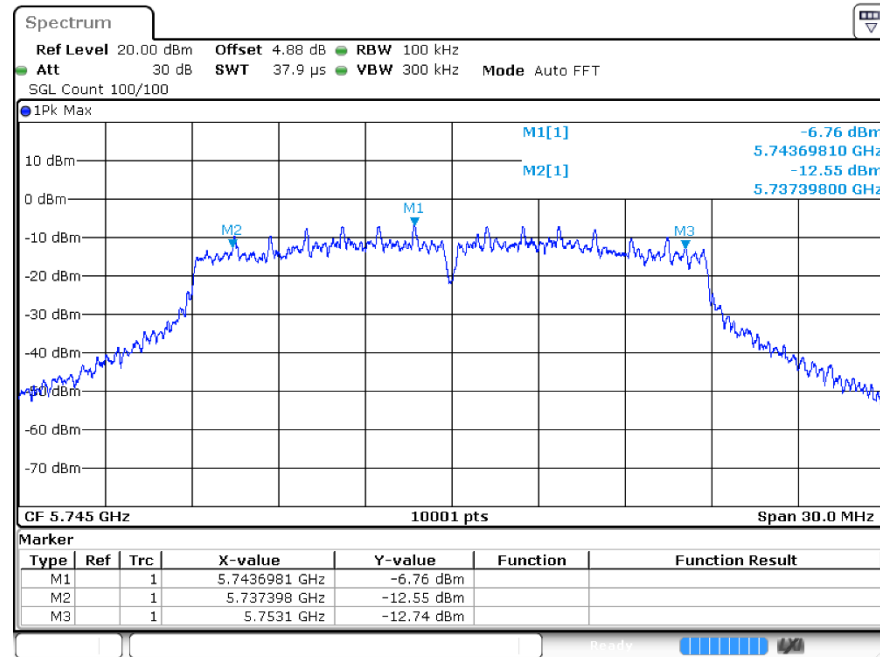
-6dB Bandwidth n40 5755MHz Ant1



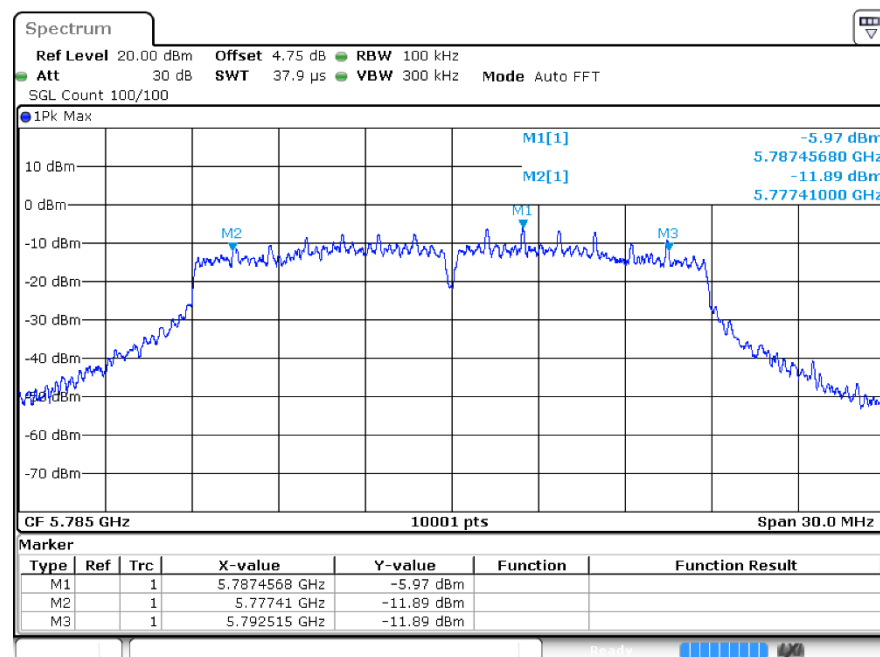
-6dB Bandwidth n40 5795MHz Ant1



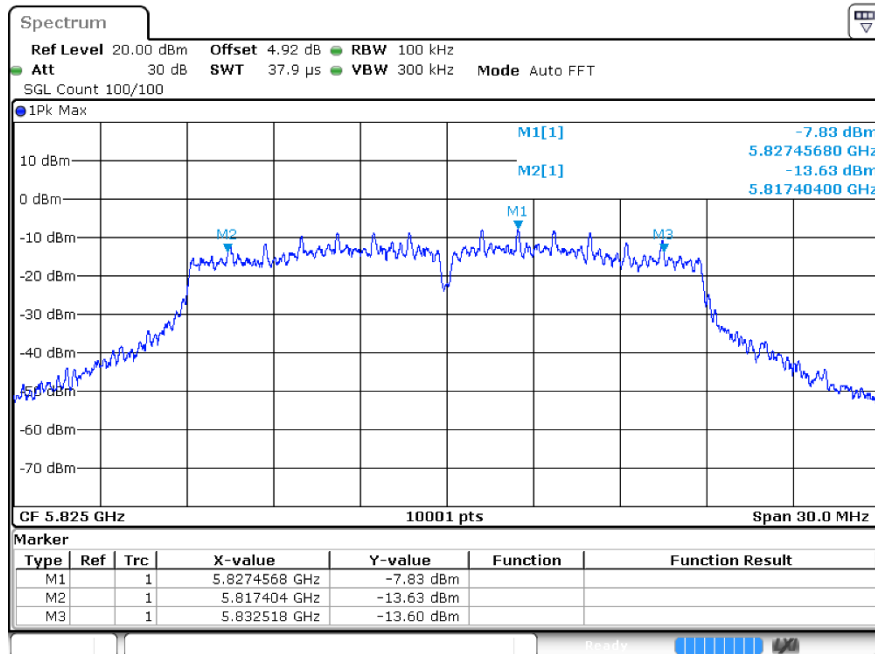
-6dB Bandwidth ac20 5745MHz Ant1



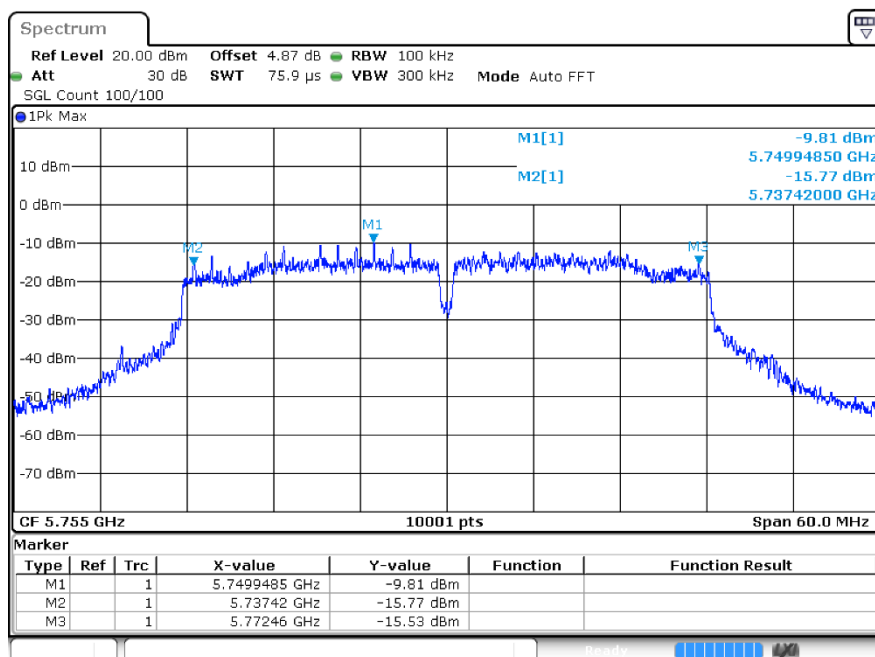
-6dB Bandwidth ac20 5785MHz Ant1



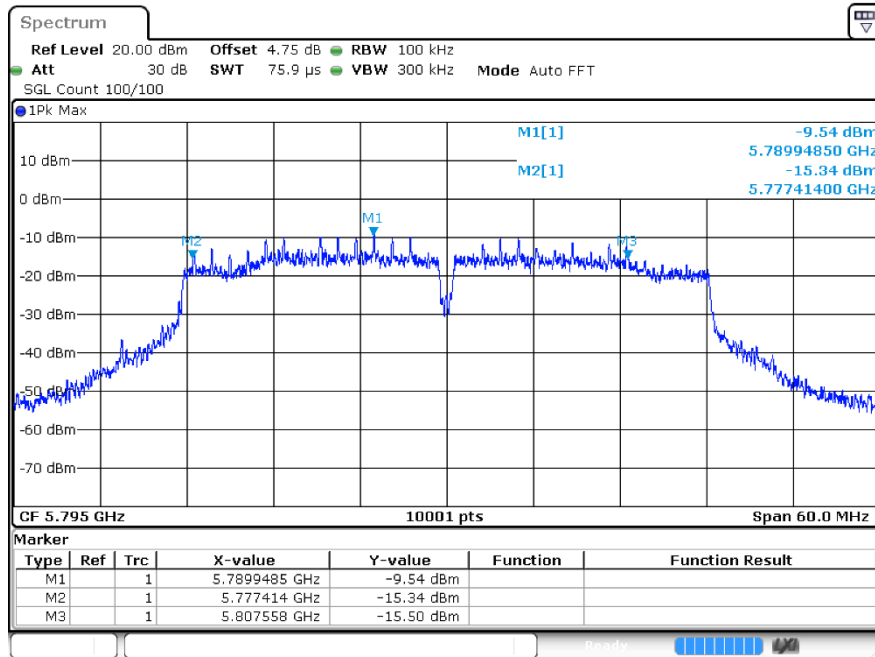
-6dB Bandwidth ac20 5825MHz Ant1



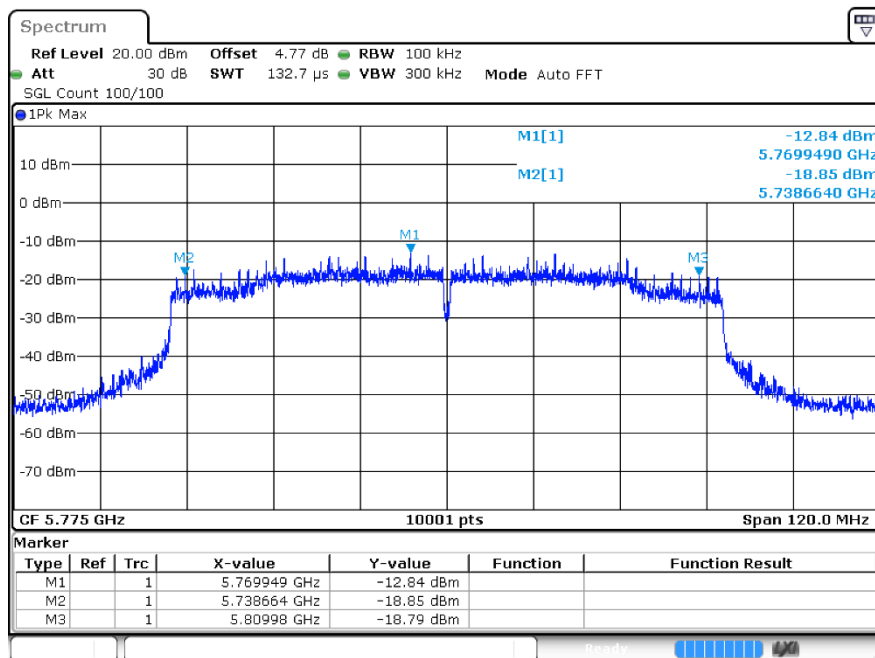
-6dB Bandwidth ac40 5755MHz Ant1



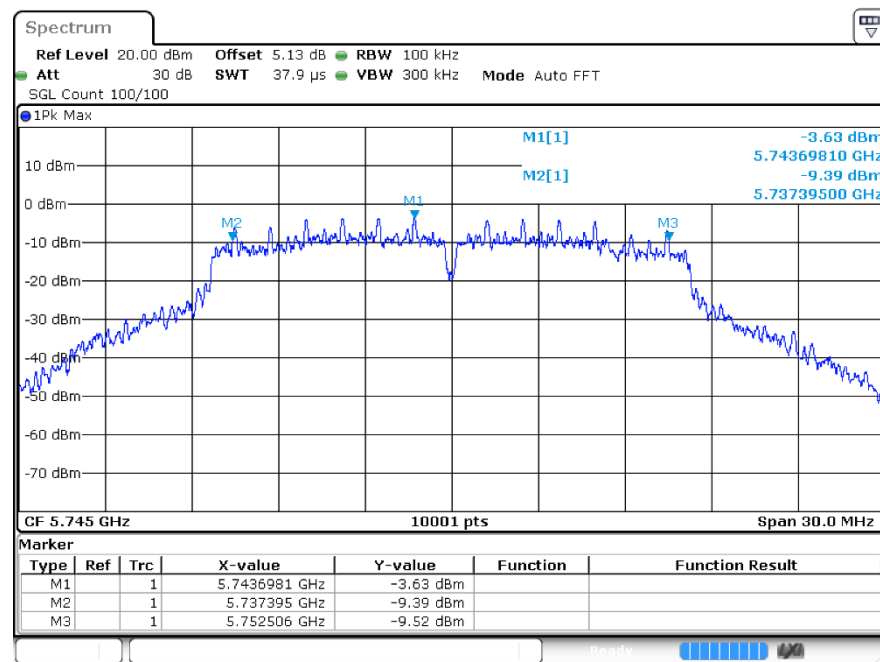
-6dB Bandwidth ac40 5795MHz Ant1



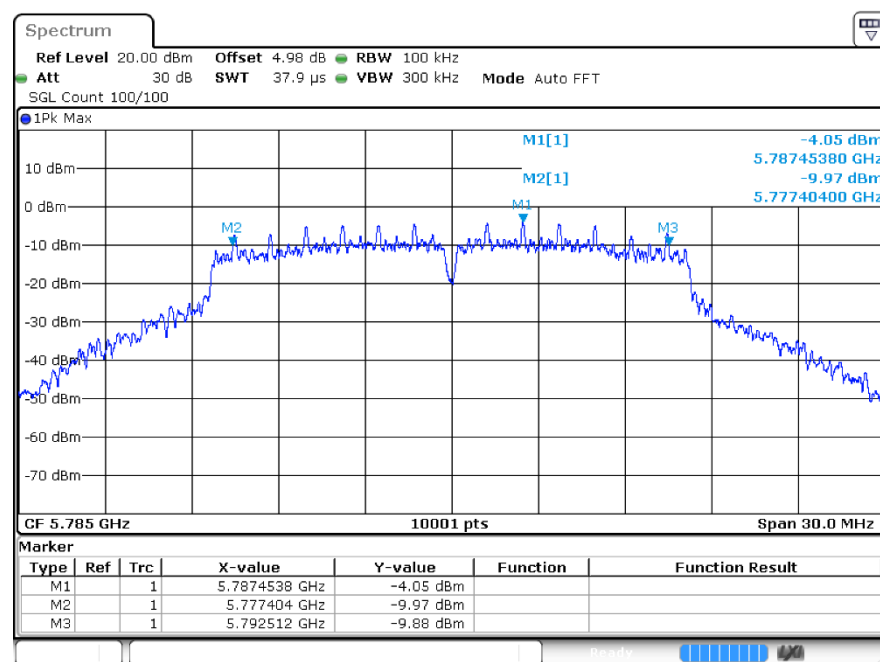
-6dB Bandwidth ac80 5775MHz Ant1



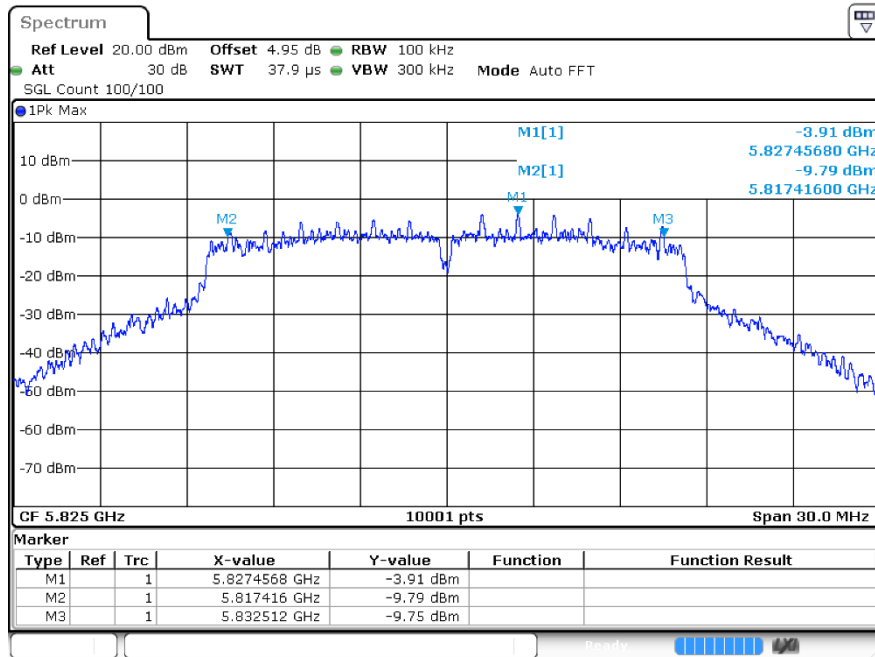
-6dB Bandwidth a 5745MHz Ant2



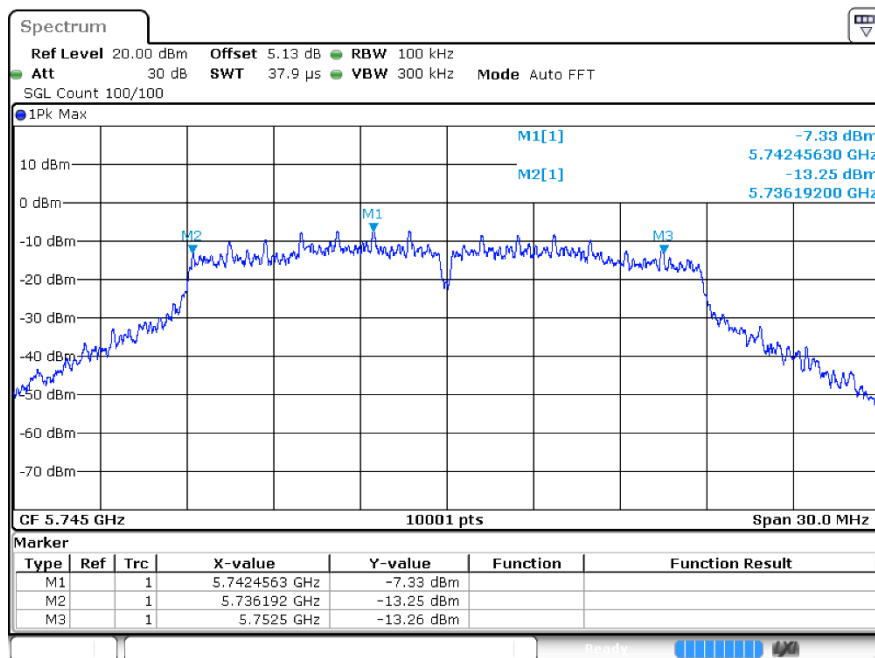
-6dB Bandwidth a 5785MHz Ant2



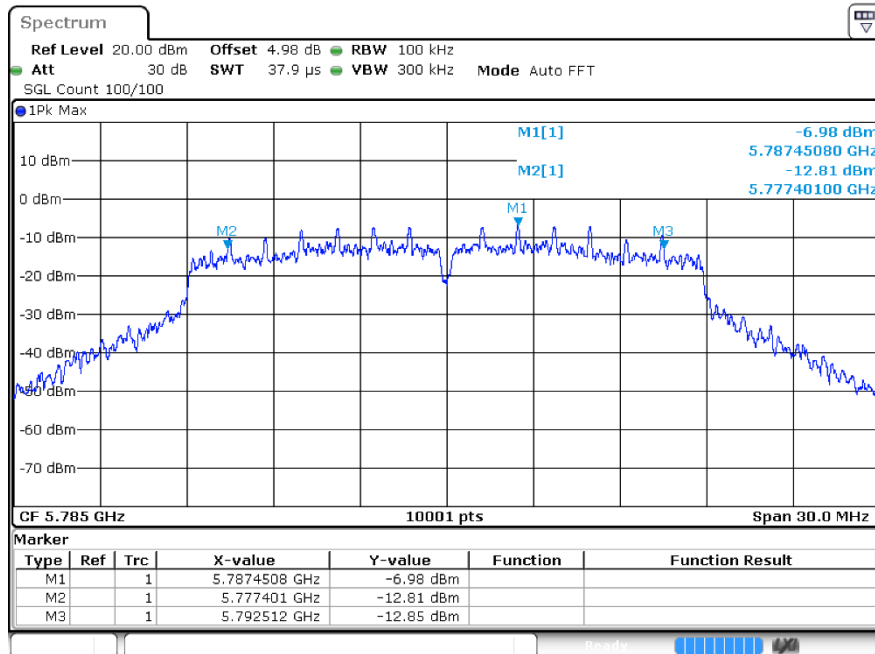
-6dB Bandwidth a 5825MHz Ant2



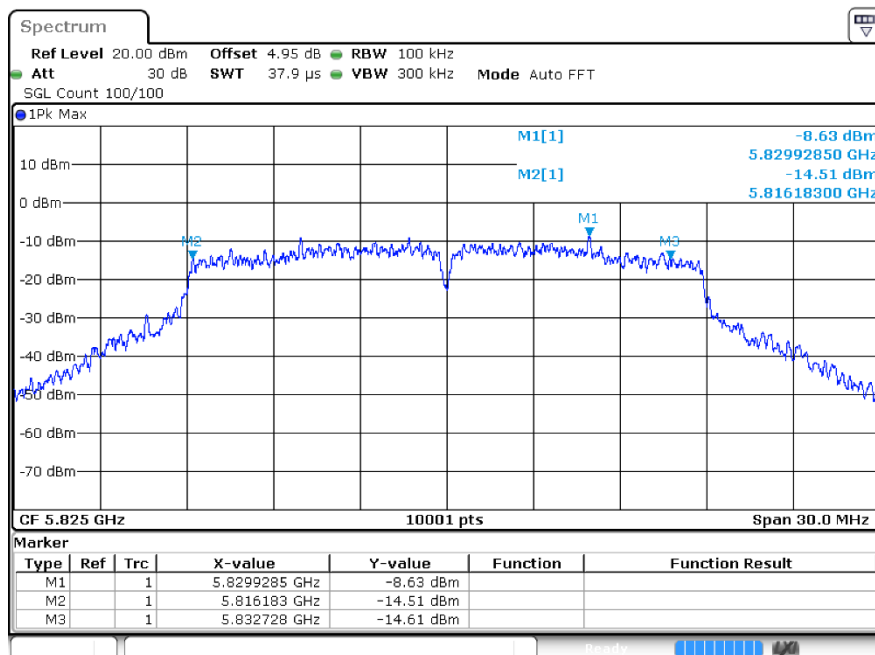
-6dB Bandwidth n20 5745MHz Ant2



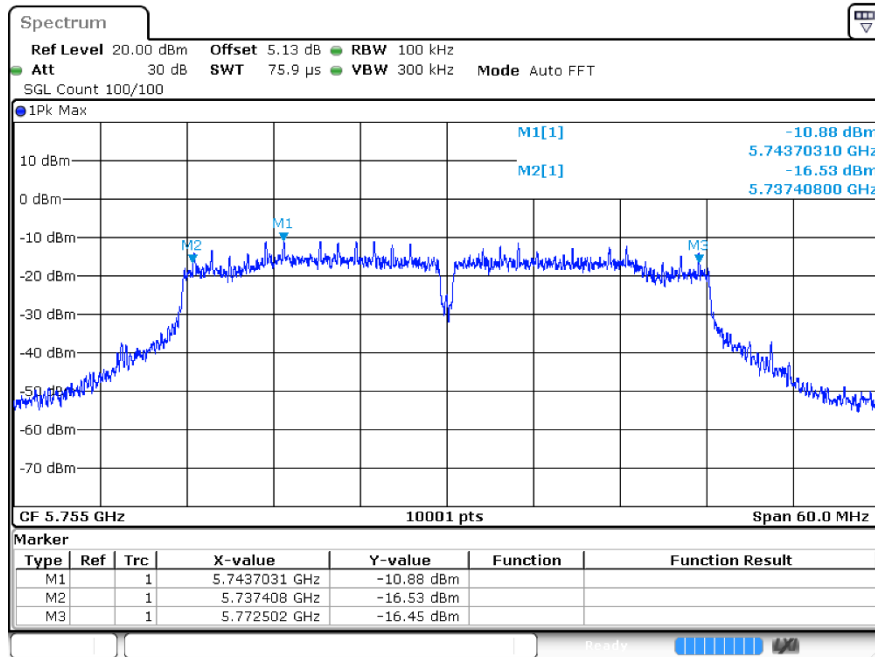
-6dB Bandwidth n20 5785MHz Ant2



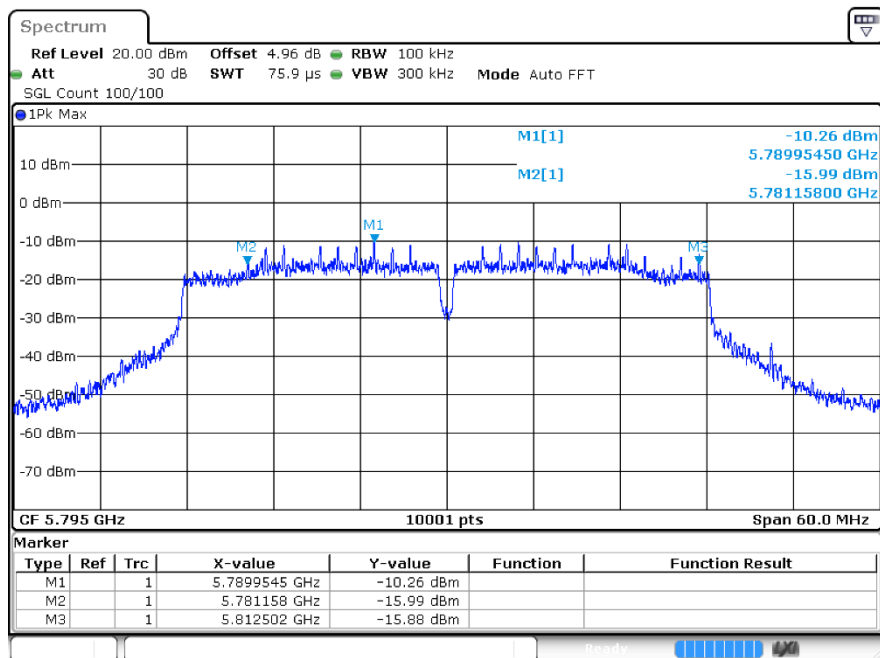
-6dB Bandwidth n20 5825MHz Ant2



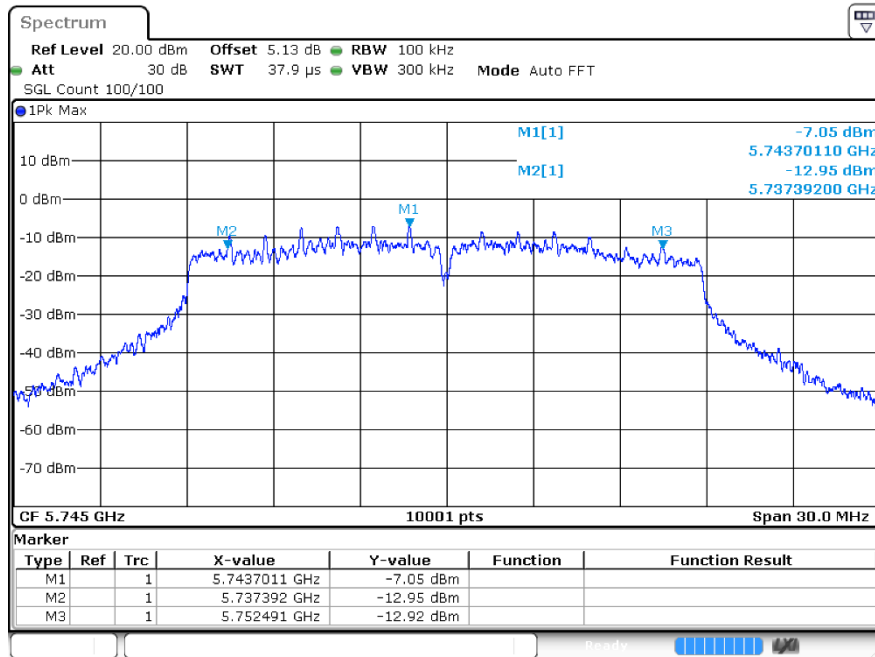
-6dB Bandwidth n40 5755MHz Ant2



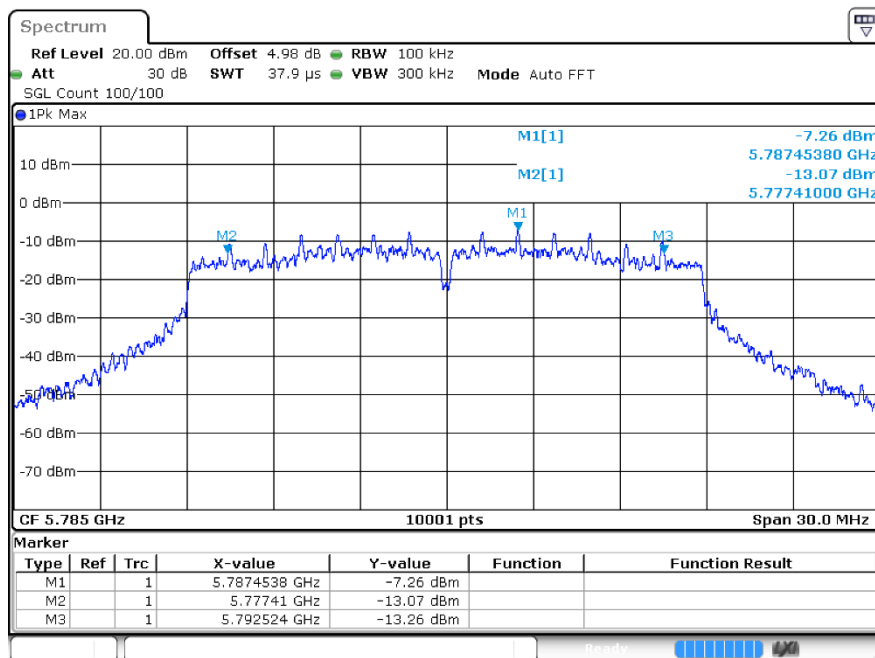
-6dB Bandwidth n40 5795MHz Ant2



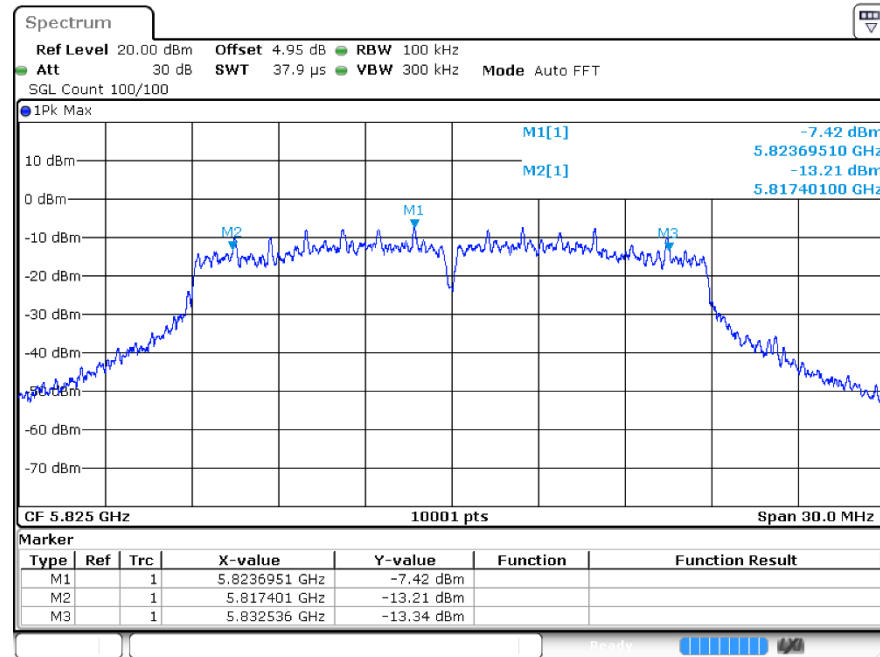
-6dB Bandwidth ac20 5745MHz Ant2



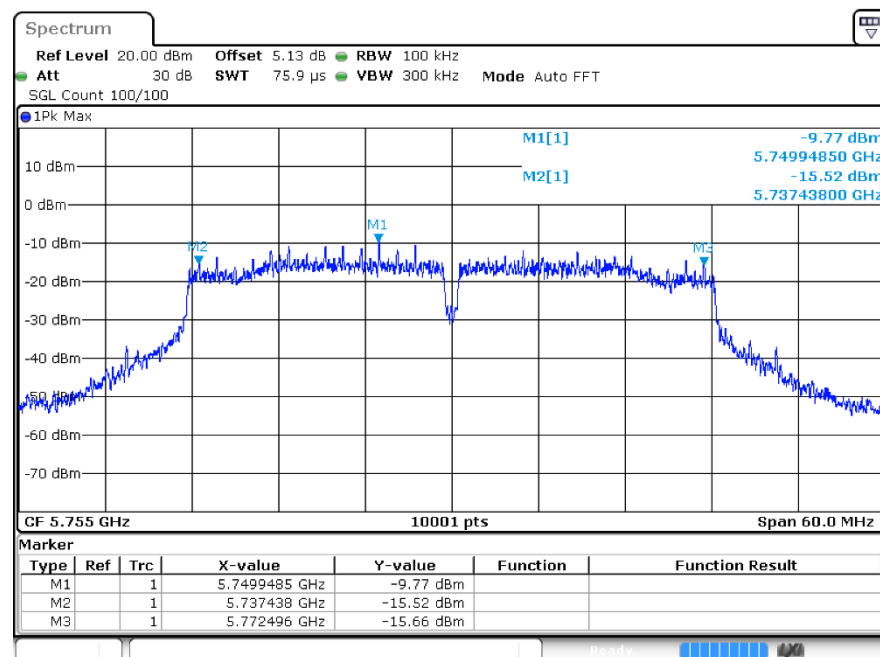
-6dB Bandwidth ac20 5785MHz Ant2



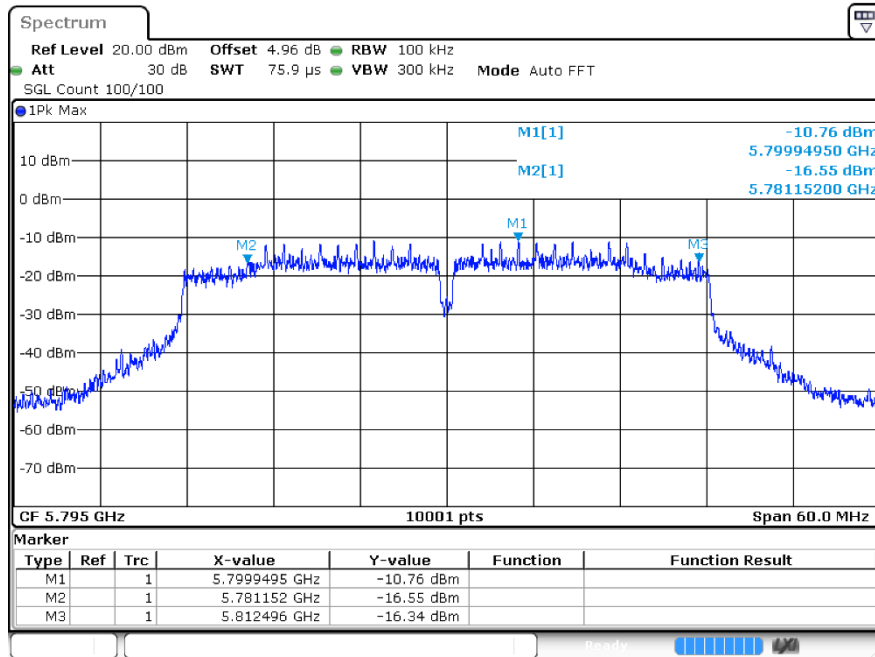
-6dB Bandwidth ac20 5825MHz Ant2



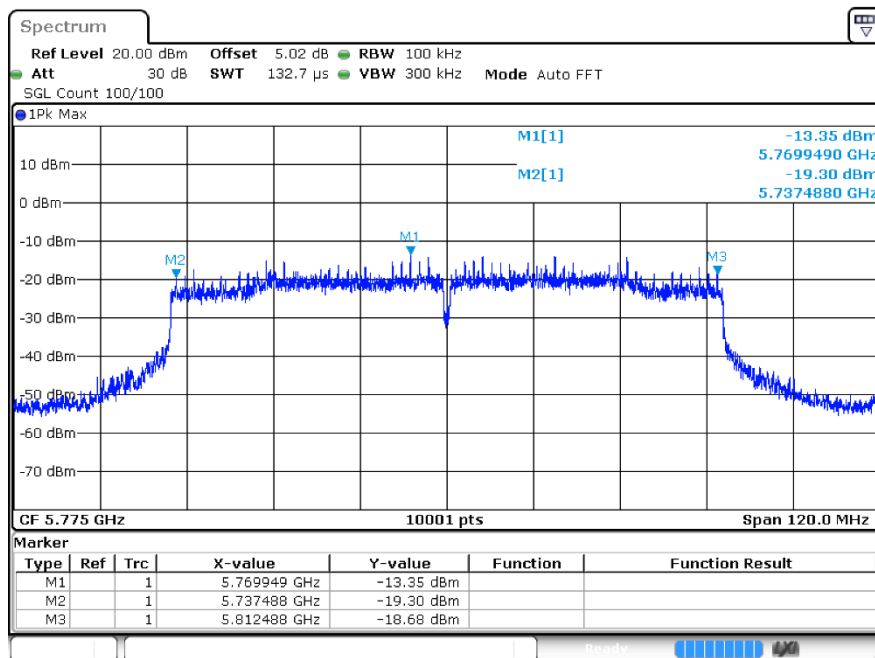
-6dB Bandwidth ac40 5755MHz Ant2



-6dB Bandwidth ac40 5795MHz Ant2



-6dB Bandwidth ac80 5775MHz Ant2

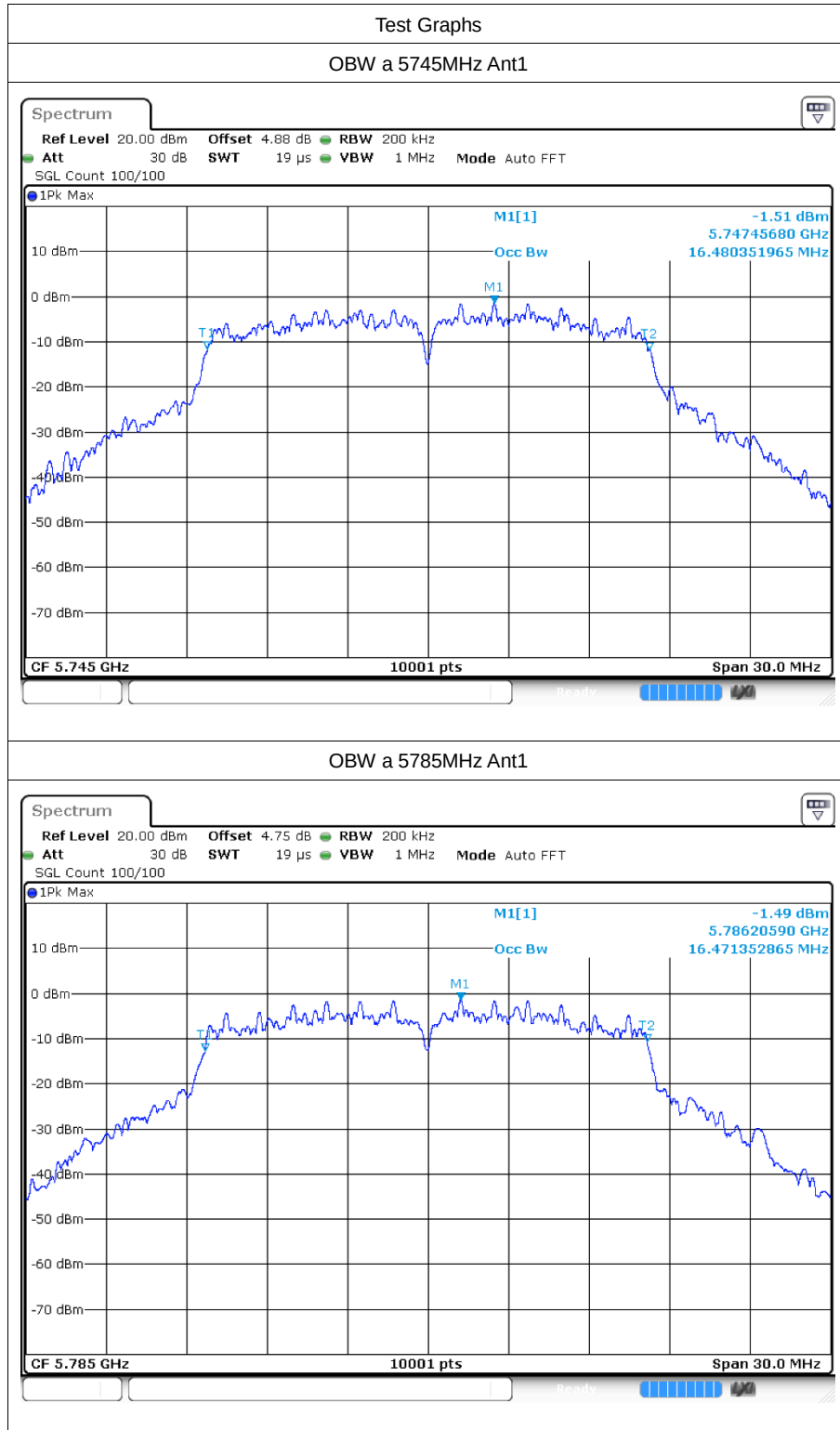


4 Occupied Channel Bandwidth

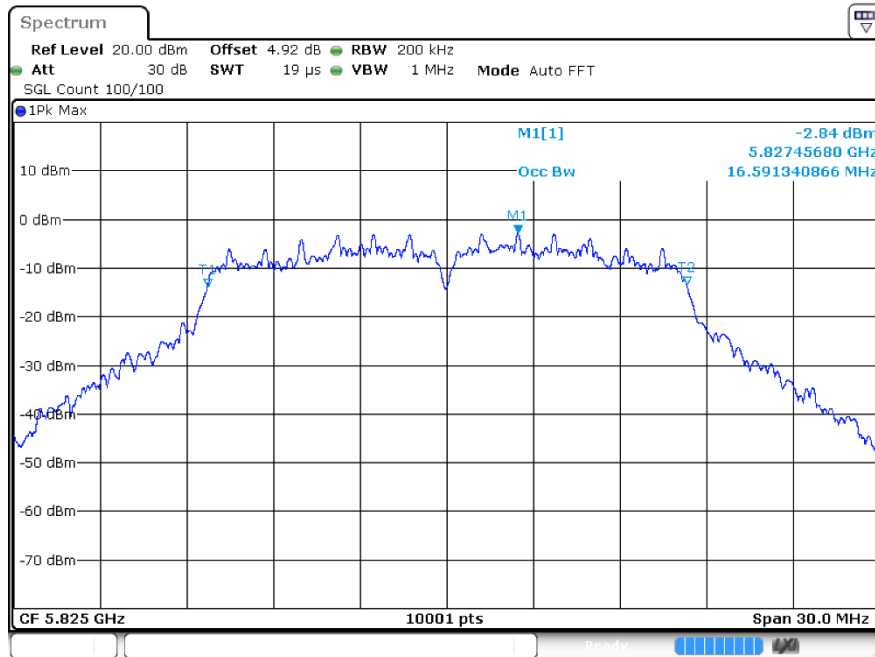
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5745	Ant1	16.48
a	5785	Ant1	16.471
a	5825	Ant1	16.591
n20	5745	Ant1	17.611
n20	5785	Ant1	17.581
n20	5825	Ant1	17.668
n40	5755	Ant1	35.894
n40	5795	Ant1	35.906
ac20	5745	Ant1	17.593
ac20	5785	Ant1	17.599
ac20	5825	Ant1	17.515
ac40	5755	Ant1	36.05
ac40	5795	Ant1	35.912
ac80	5775	Ant1	74.573
a	5745	Ant2	16.498
a	5785	Ant2	16.408
a	5825	Ant2	16.456
n20	5745	Ant2	17.605
n20	5785	Ant2	17.626
n20	5825	Ant2	17.569
n40	5755	Ant2	36.038
n40	5795	Ant2	36.008
ac20	5745	Ant2	17.497
ac20	5785	Ant2	17.575
ac20	5825	Ant2	17.509
ac40	5755	Ant2	36.164
ac40	5795	Ant2	35.936
ac80	5775	Ant2	75.4

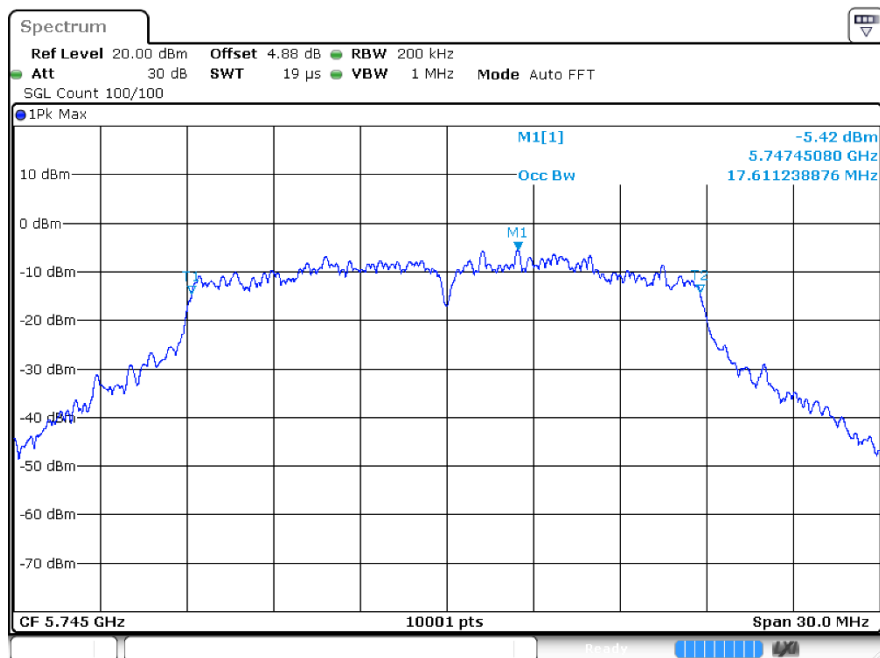
4.2 Test Graphs



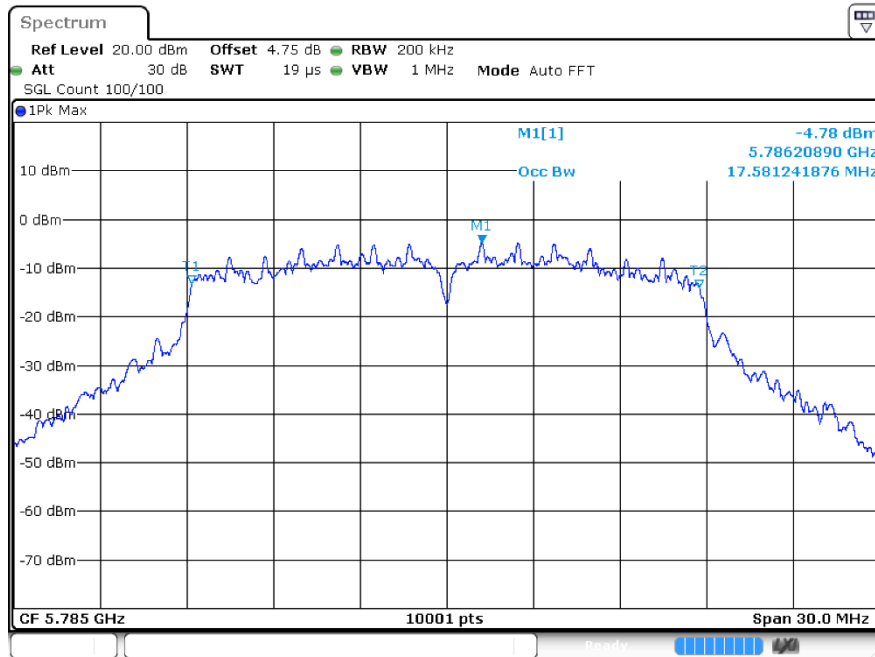
OBW a 5825MHz Ant1



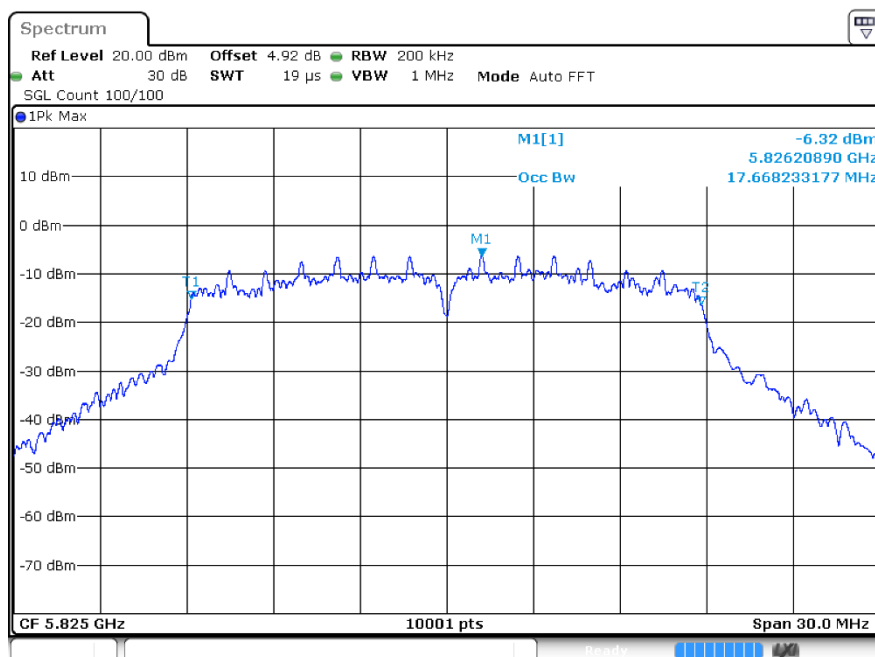
OBW n20 5745MHz Ant1



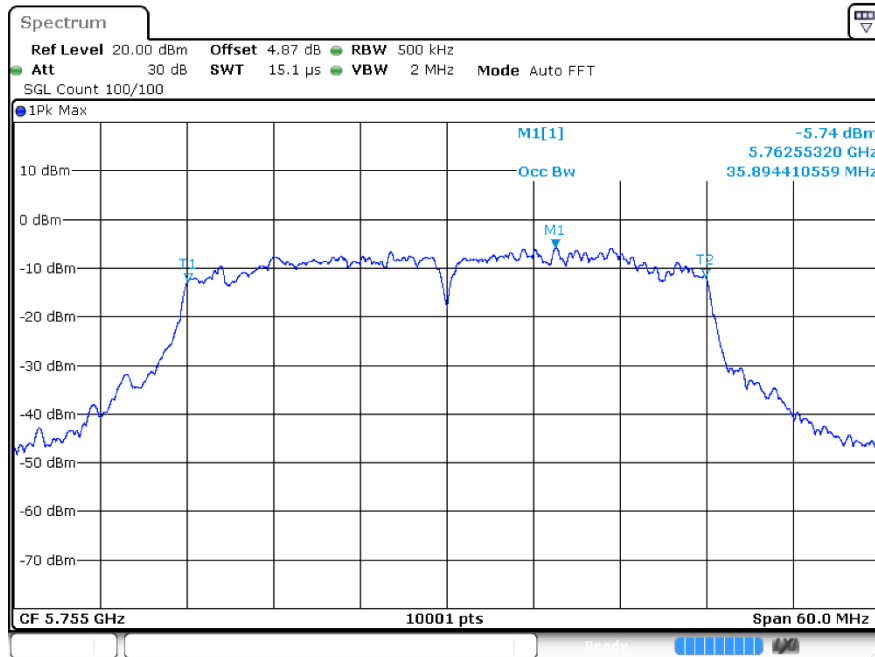
OBW n20 5785MHz Ant1



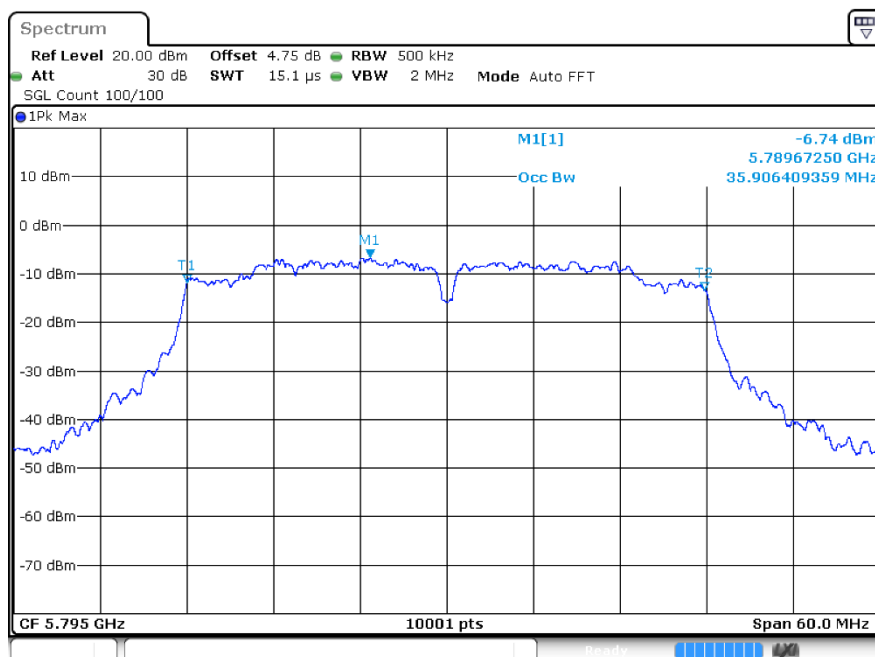
OBW n20 5825MHz Ant1



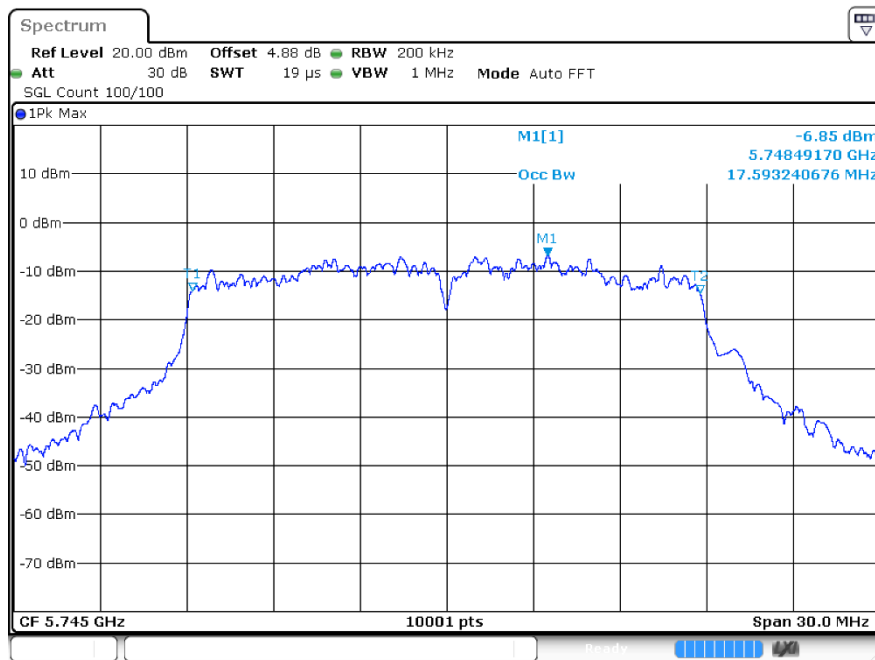
OBW n40 5755MHz Ant1



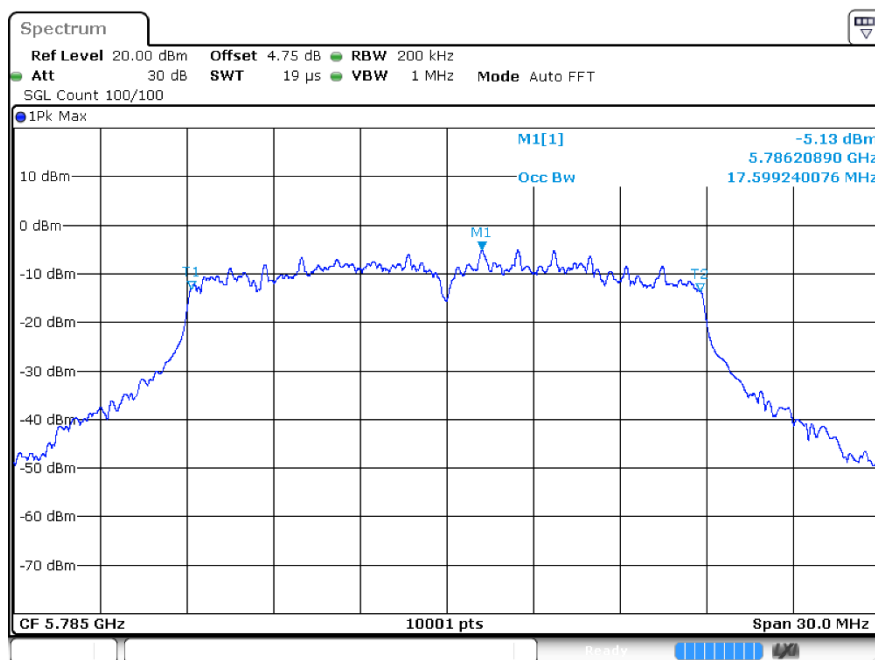
OBW n40 5795MHz Ant1



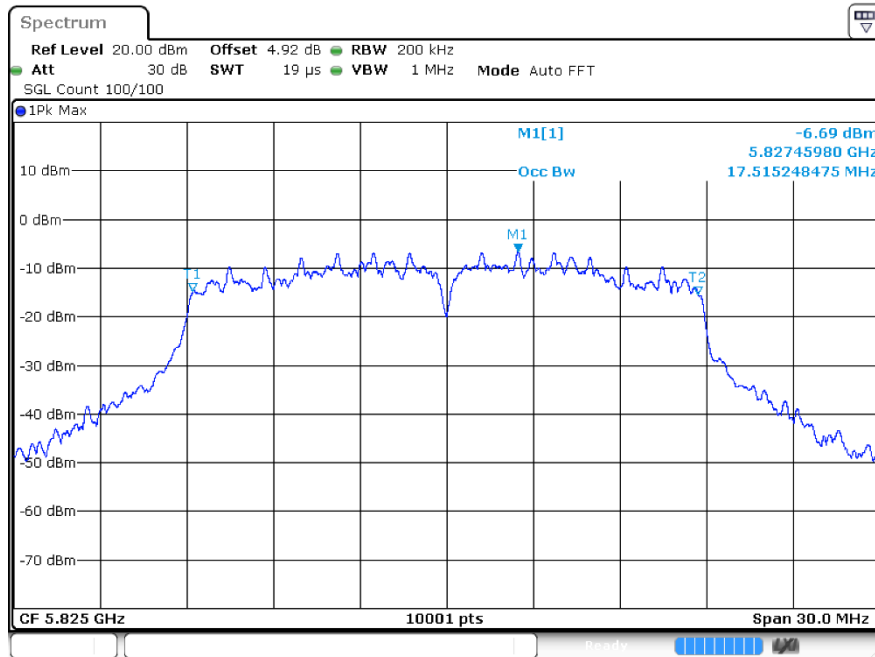
OBW ac20 5745MHz Ant1



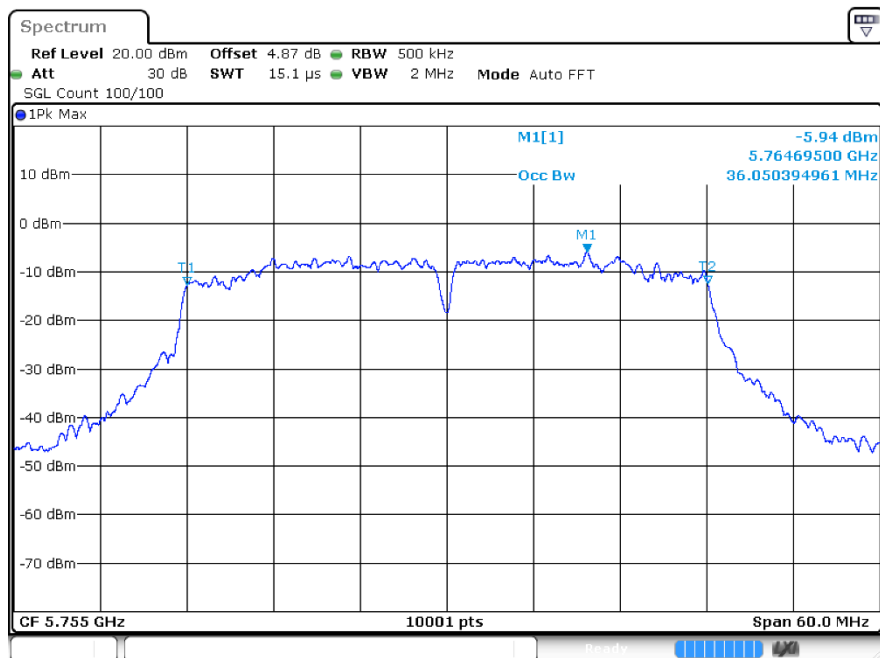
OBW ac20 5785MHz Ant1



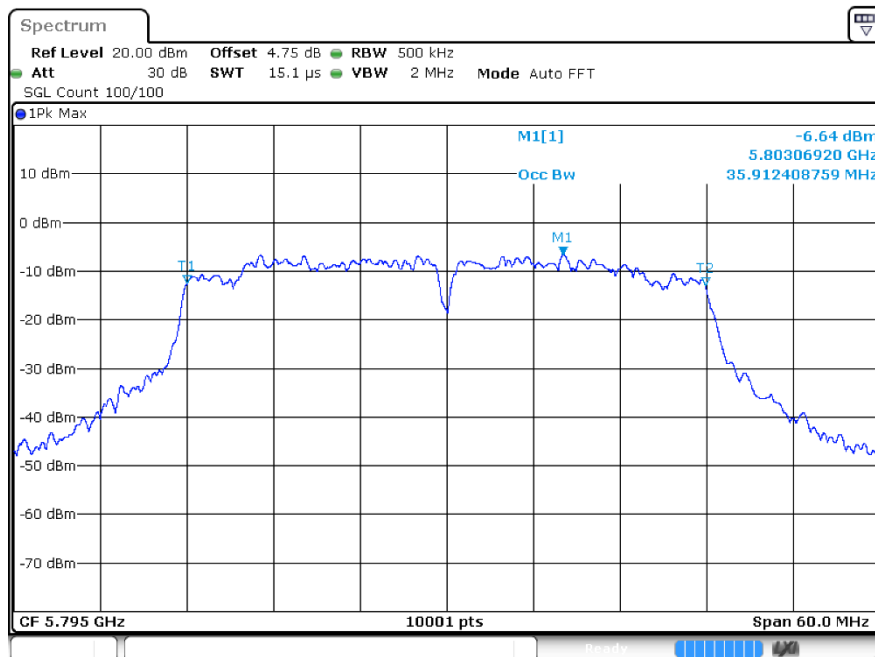
OBW ac20 5825MHz Ant1



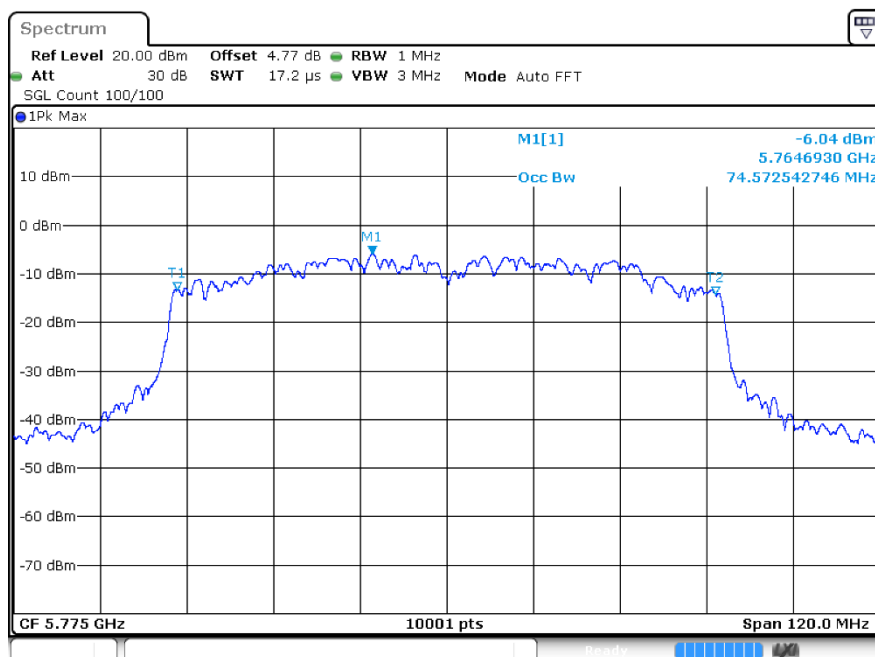
OBW ac40 5755MHz Ant1



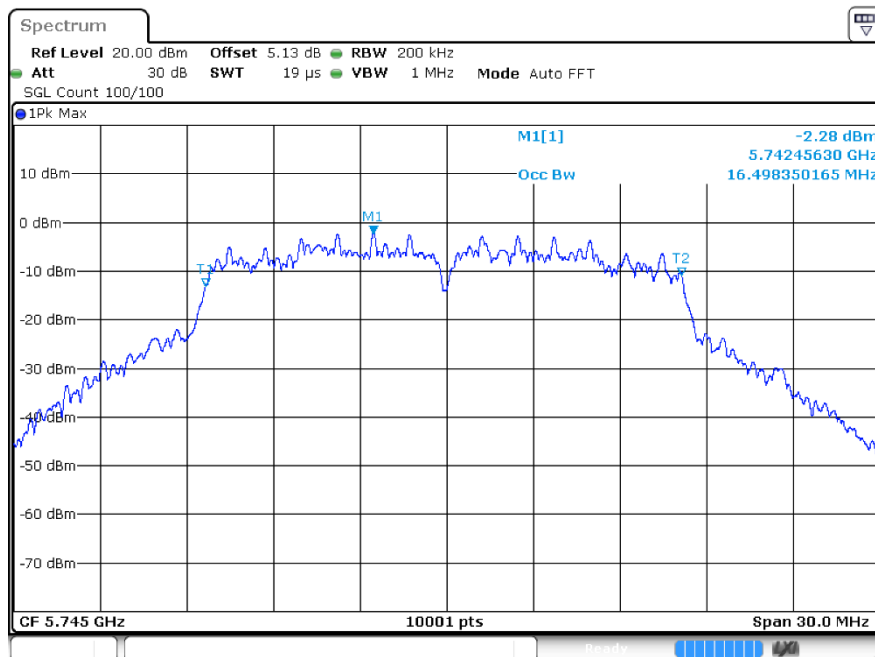
OBW ac40 5795MHz Ant1



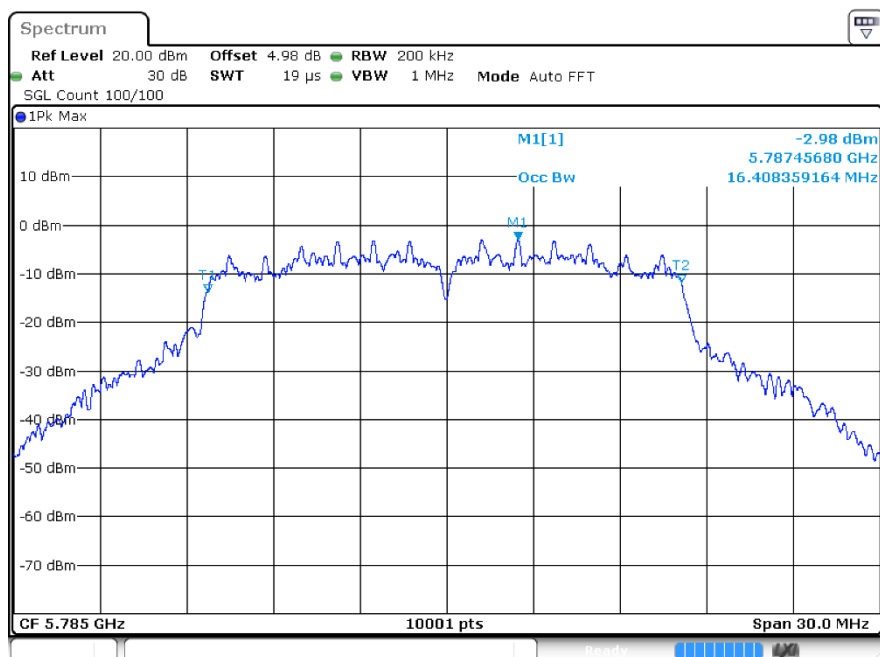
OBW ac80 5775MHz Ant1



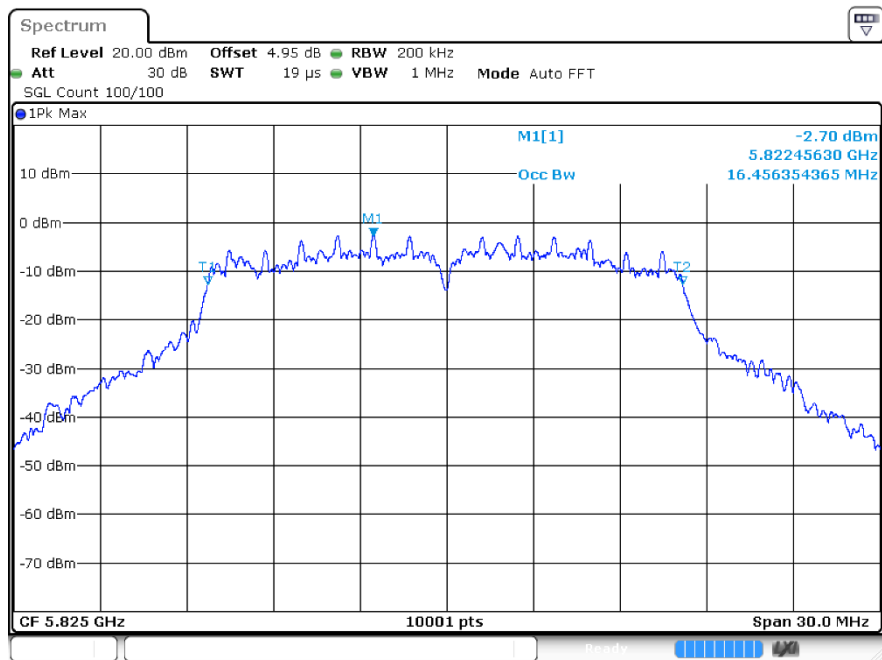
OBW a 5745MHz Ant2



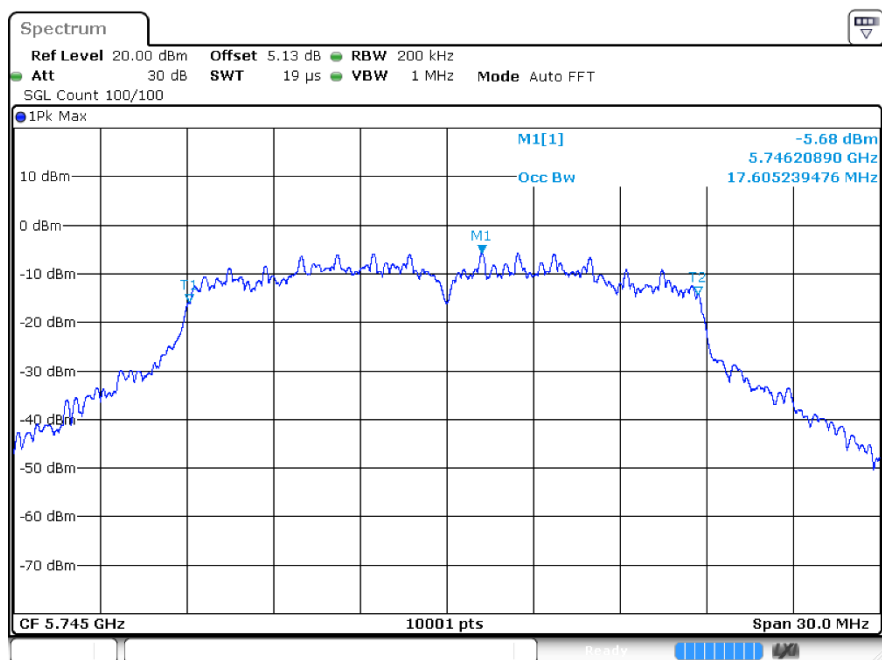
OBW a 5785MHz Ant2



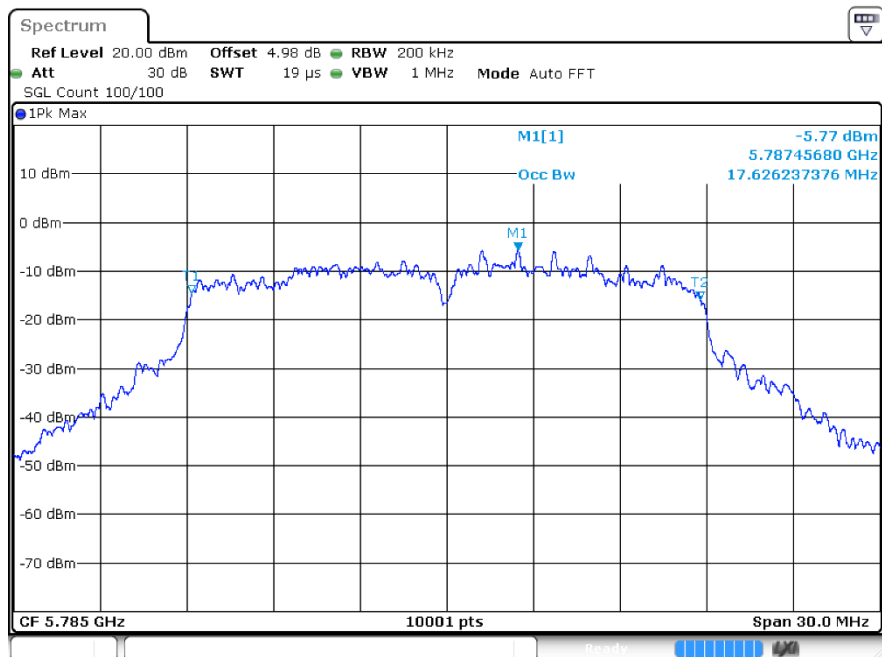
OBW a 5825MHz Ant2



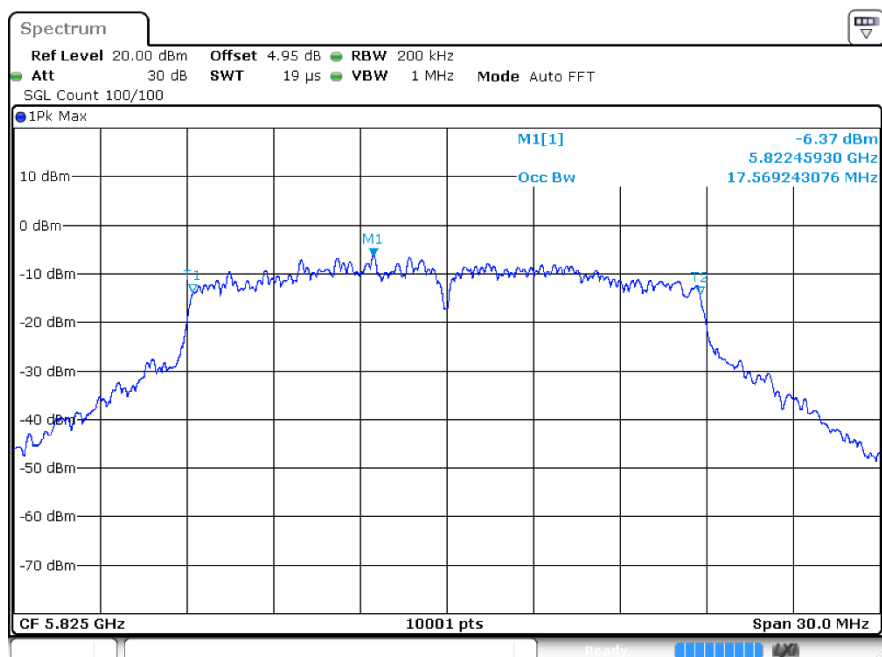
OBW n20 5745MHz Ant2



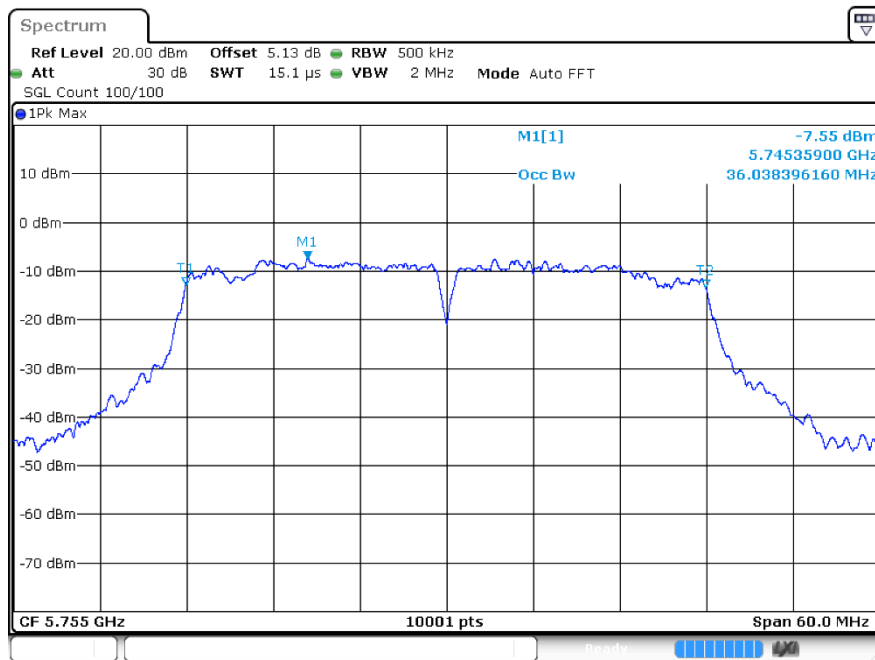
OBW n20 5785MHz Ant2



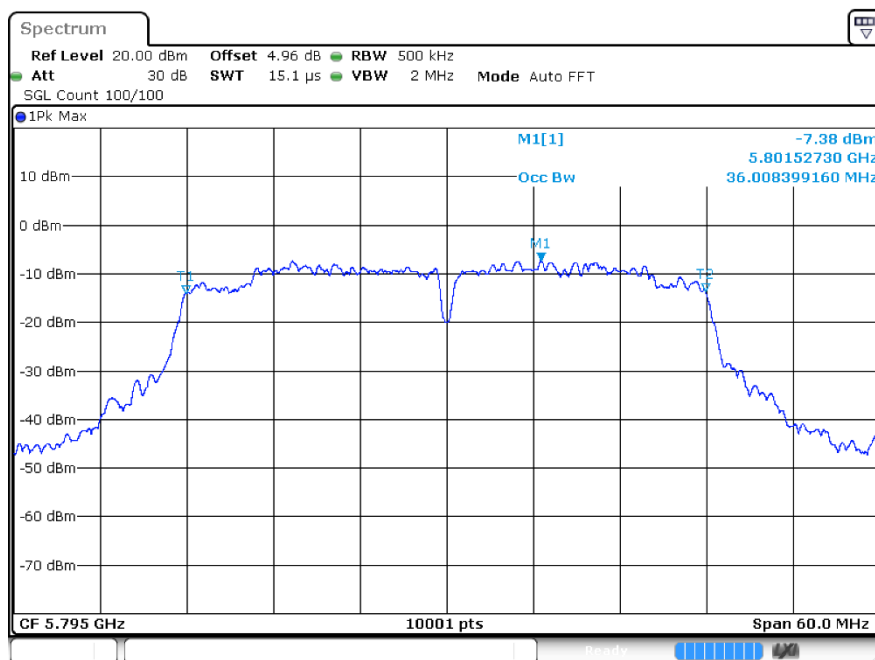
OBW n20 5825MHz Ant2



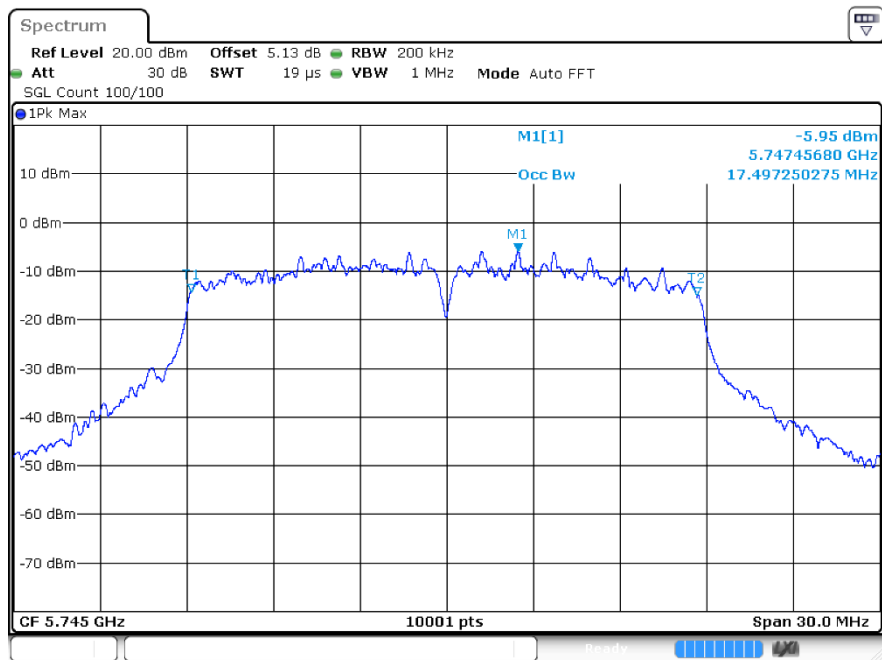
OBW n40 5755MHz Ant2



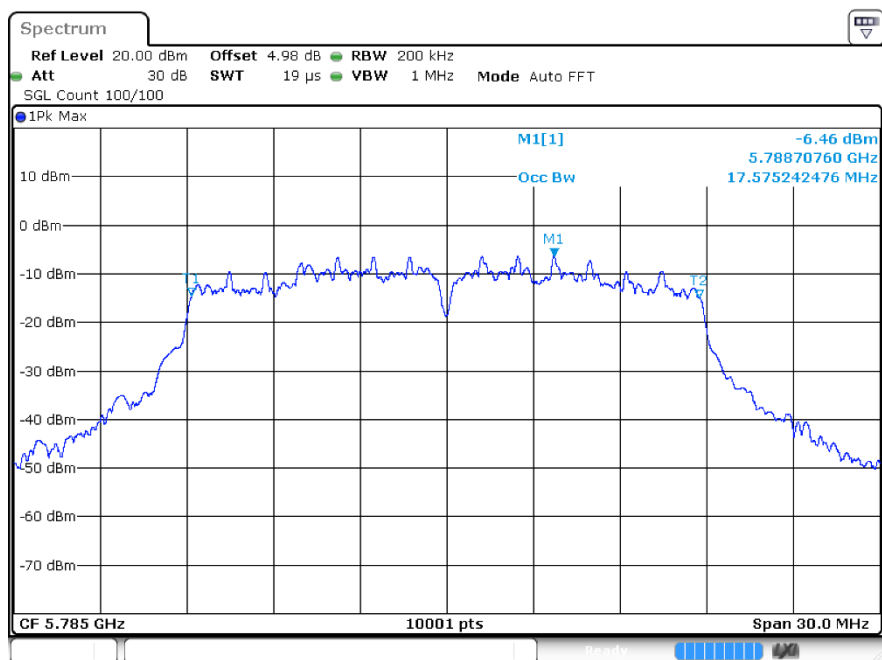
OBW n40 5795MHz Ant2



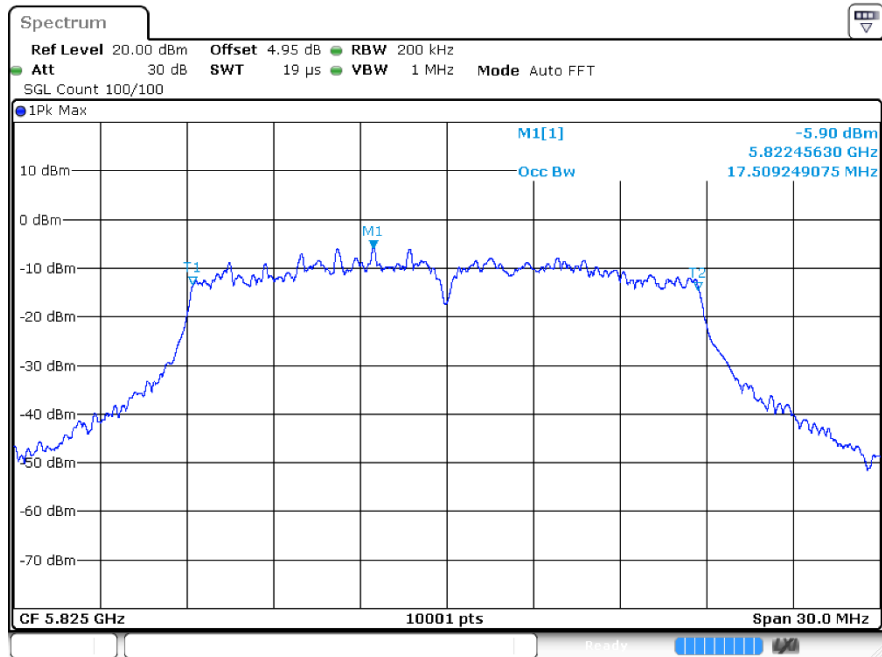
OBW ac20 5745MHz Ant2



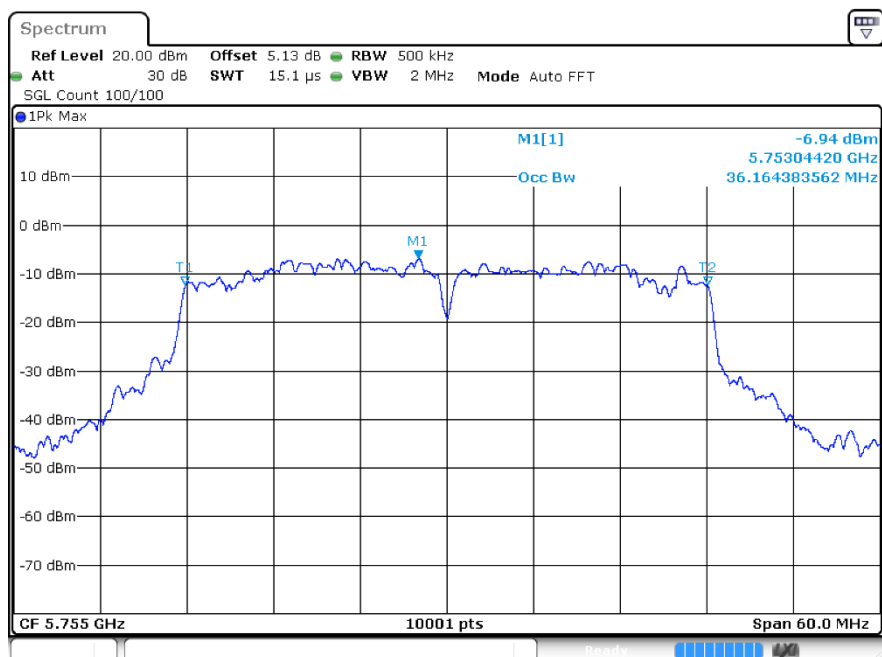
OBW ac20 5785MHz Ant2



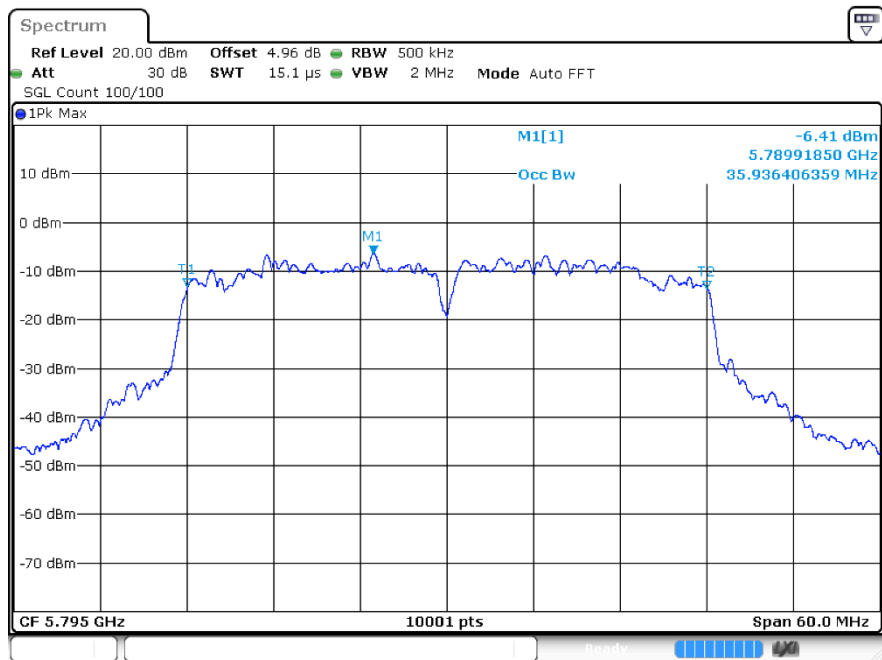
OBW ac20 5825MHz Ant2



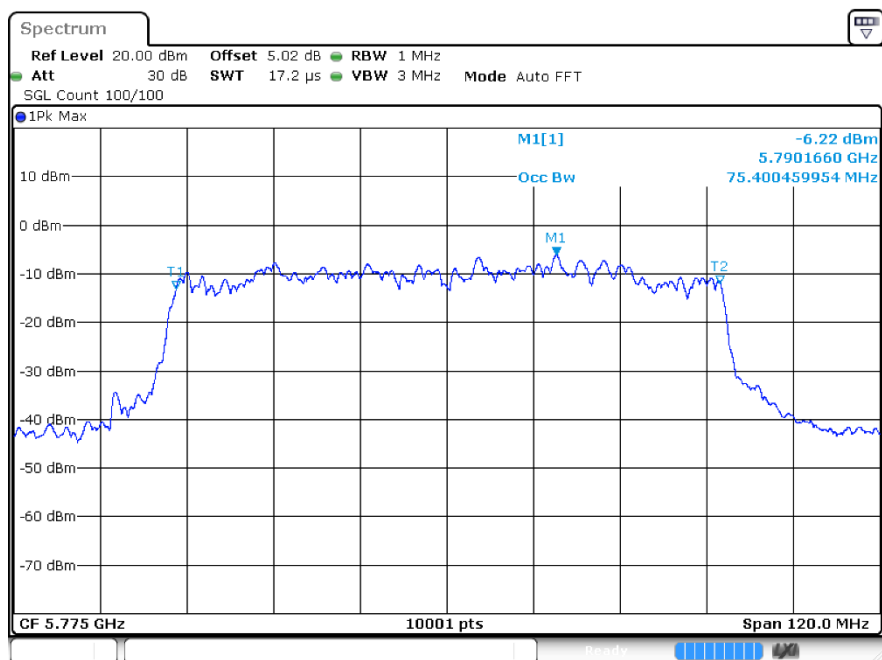
OBW ac40 5755MHz Ant2



OBW ac40 5795MHz Ant2



OBW ac80 5775MHz Ant2



5 Maximum Power Spectral Density Level

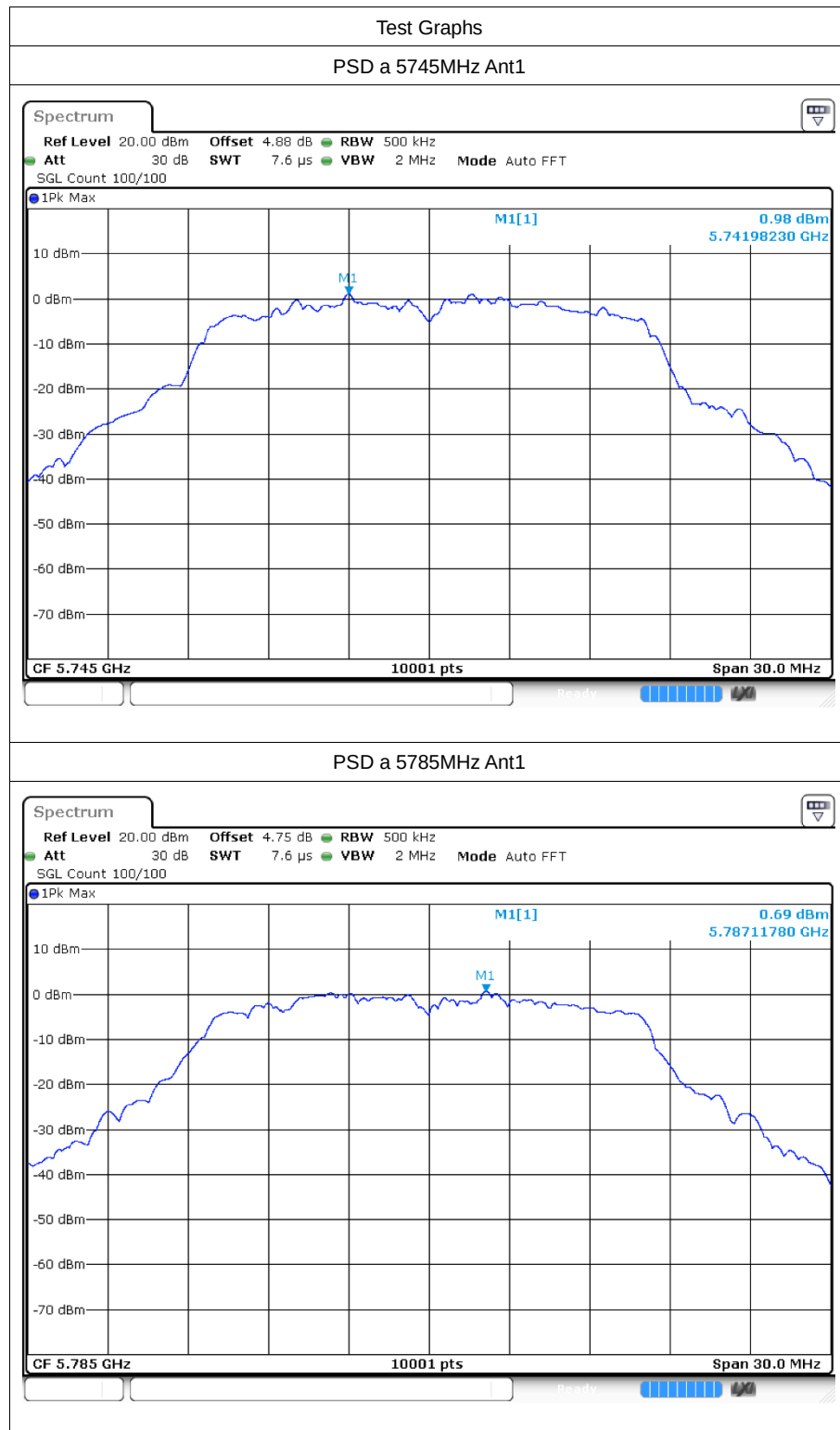
5.1 Test Result

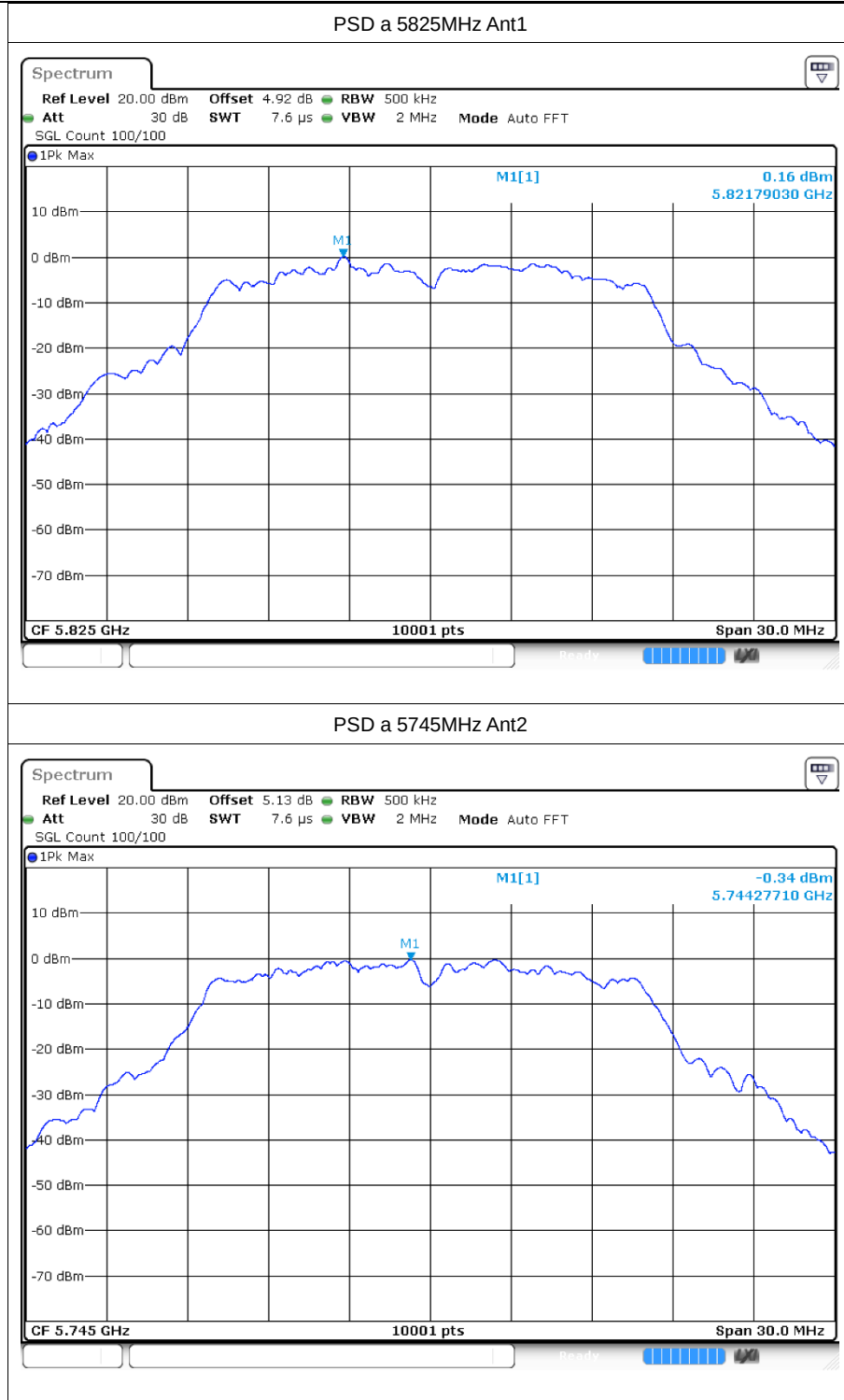
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	0.98	0.61	1.59	30	Pass
a	5785	Ant1	0.69	0.61	1.3	30	Pass
a	5825	Ant1	0.16	0.61	0.77	30	Pass
a	5745	Ant2	-0.34	0.61	0.27	30	Pass
a	5785	Ant2	0.89	0.61	1.5	30	Pass
a	5825	Ant2	0.28	0.6	0.88	30	Pass
n20	5745	Ant1	-3.64	0.31	-3.33	30	Pass
n20	5745	Ant2	-2.6	0.32	-2.28	30	Pass
n20	5785	Ant1	-3.16	0.32	-2.84	30	Pass
n20	5785	Ant2	-3.64	0.31	-3.33	30	Pass
n20	5825	Ant1	-4.26	0.31	-3.95	30	Pass
n20	5825	Ant2	-3.19	0.31	-2.88	30	Pass
n40	5755	Ant1	-6.5	0.32	-6.18	30	Pass
n40	5755	Ant2	-6.63	0.32	-6.31	30	Pass
n40	5795	Ant1	-6.41	0.36	-6.05	30	Pass
n40	5795	Ant2	-6.91	0.39	-6.52	30	Pass
ac20	5745	Ant1	-2.16	0.54	-1.62	30	Pass
ac20	5745	Ant2	-2.25	0.54	-1.71	30	Pass
ac20	5785	Ant1	-3.55	0.55	-3	30	Pass
ac20	5785	Ant2	-4.32	0.54	-3.78	30	Pass
ac20	5825	Ant1	-4.24	0.56	-3.68	30	Pass
ac20	5825	Ant2	-4.16	0.54	-3.62	30	Pass
ac40	5755	Ant1	-6.23	0.61	-5.62	30	Pass
ac40	5755	Ant2	-6.61	0.59	-6.02	30	Pass
ac40	5795	Ant1	-6.43	0.74	-5.69	30	Pass
ac40	5795	Ant2	-6.69	0.74	-5.95	30	Pass
ac80	5775	Ant1	-9.19	0.61	-8.58	30	Pass
ac80	5775	Ant2	-9.53	0.91	-8.62	30	Pass

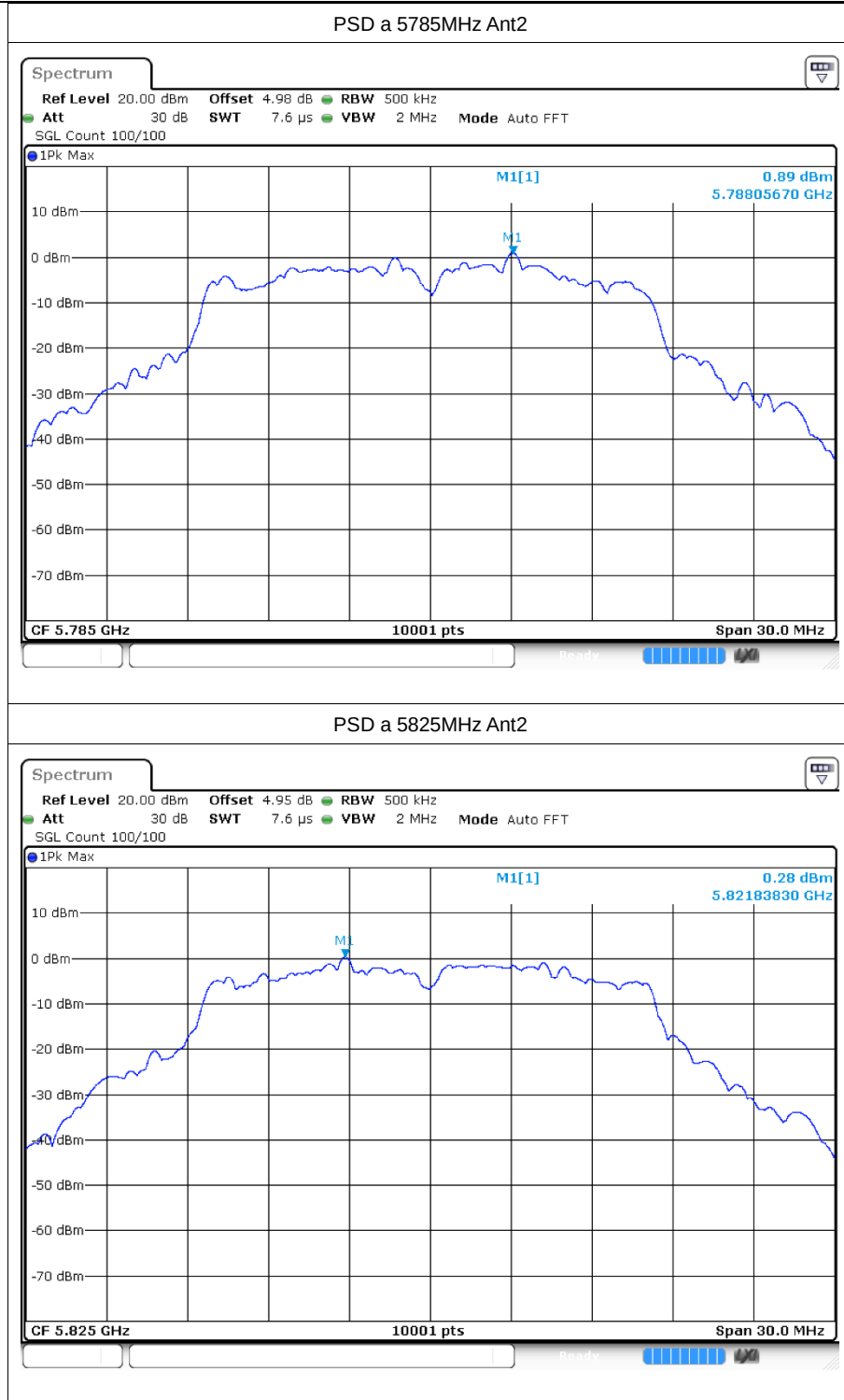


n20	5745	Sum	1.59	0.27	1.59	28.49	Pass
n20	5785	Sum	1.3	1.5	1.3	28.49	Pass
n20	5825	Sum	0.77	0.88	0.77	28.49	Pass
n40	5745	Sum	-3.33	-2.28	-3.33	28.49	Pass
n40	5785	Sum	-2.84	-3.33	-2.84	28.49	Pass
ac20	5825	Sum	-3.95	-2.88	-3.95	28.49	Pass
ac20	5755	Sum	-6.18	-6.31	-6.18	28.49	Pass
ac20	5795	Sum	-6.05	-6.52	-6.05	28.49	Pass
ac40	5745	Sum	-1.62	-1.71	-1.62	28.49	Pass
ac40	5785	Sum	-3	-3.78	-3	28.49	Pass
ac80	5825	Sum	-3.68	-3.62	-3.68	28.49	Pass

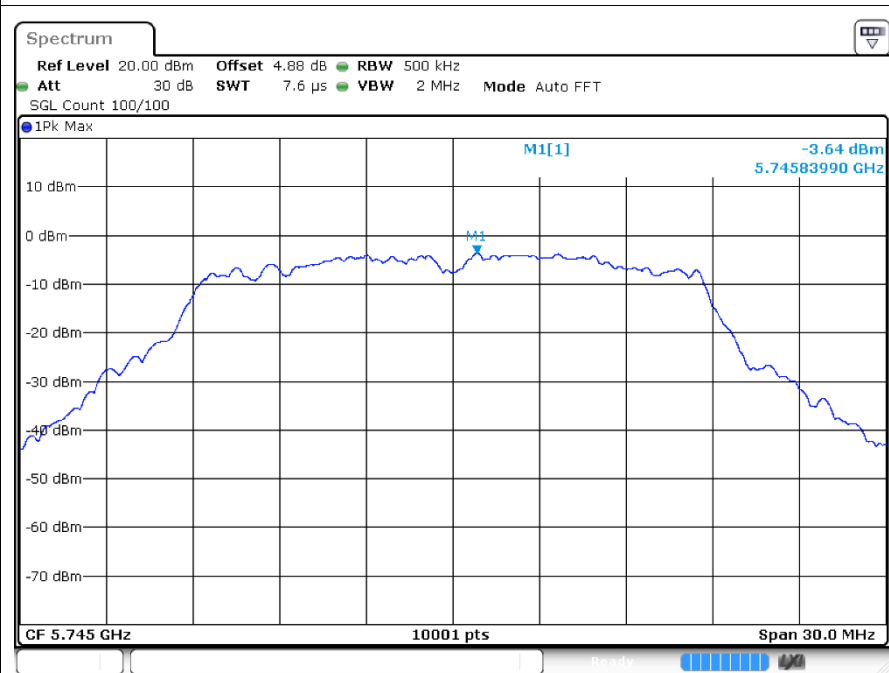
5.2 Test Graphs



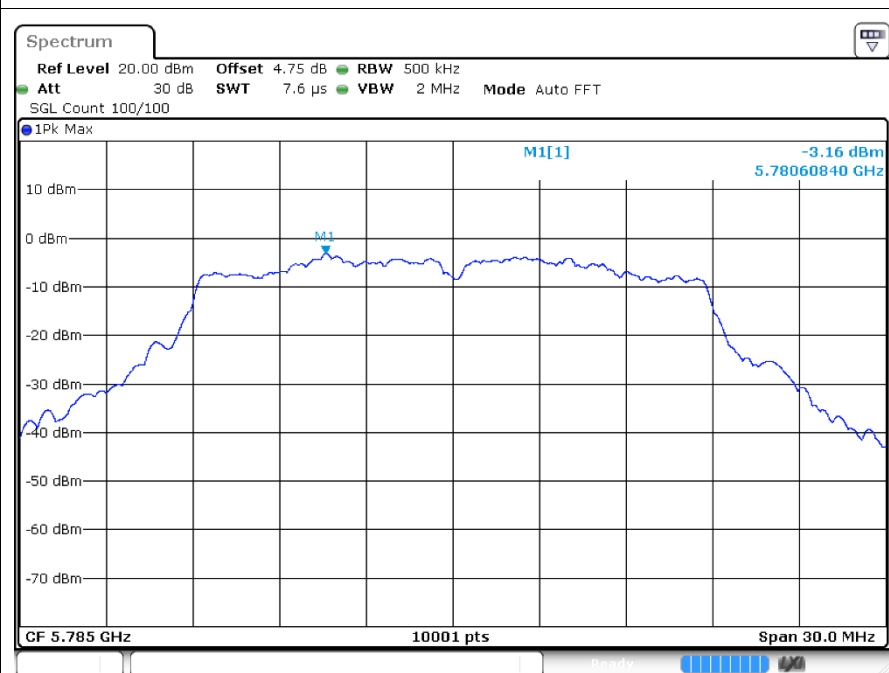


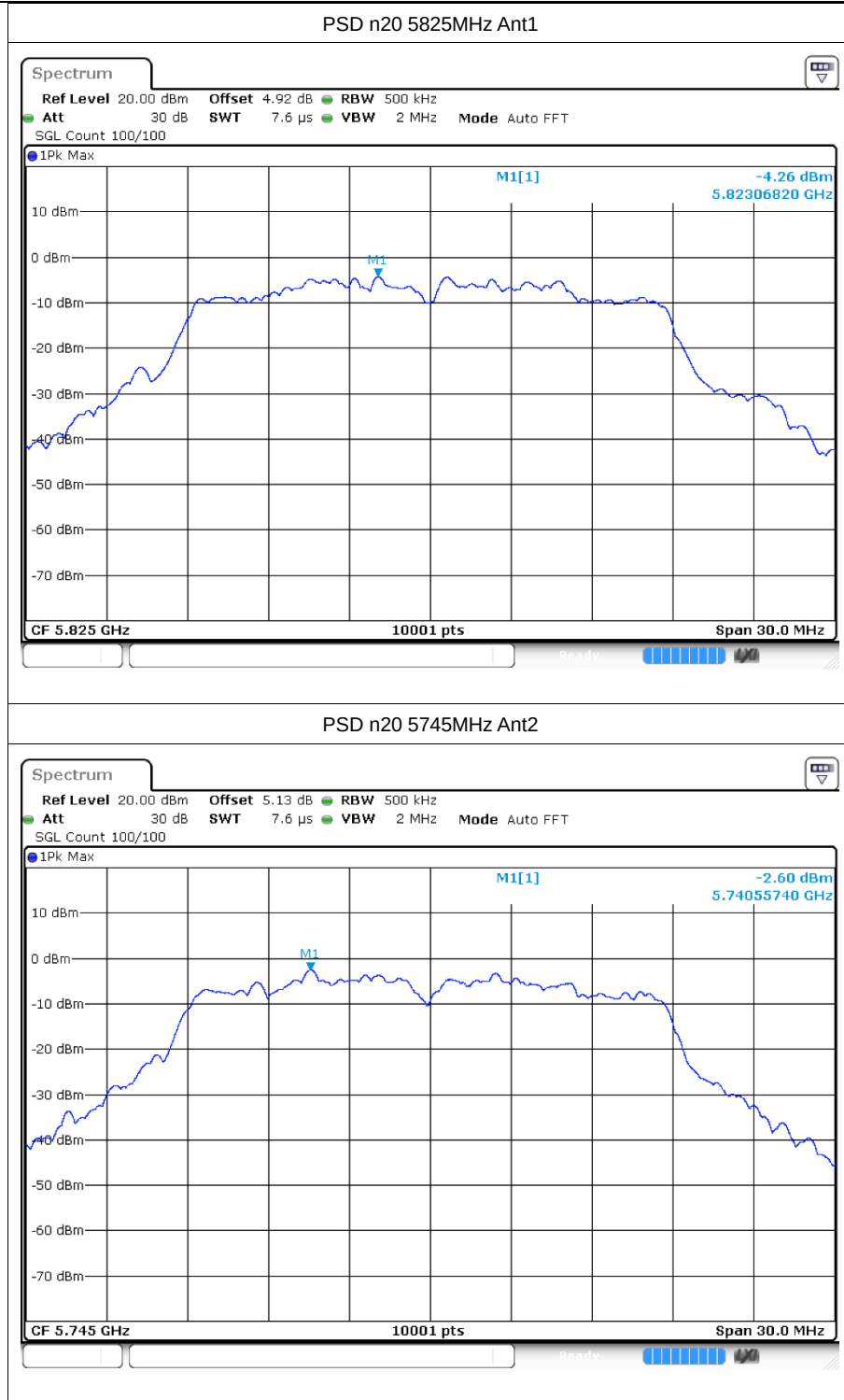


PSD n20 5745MHz Ant1

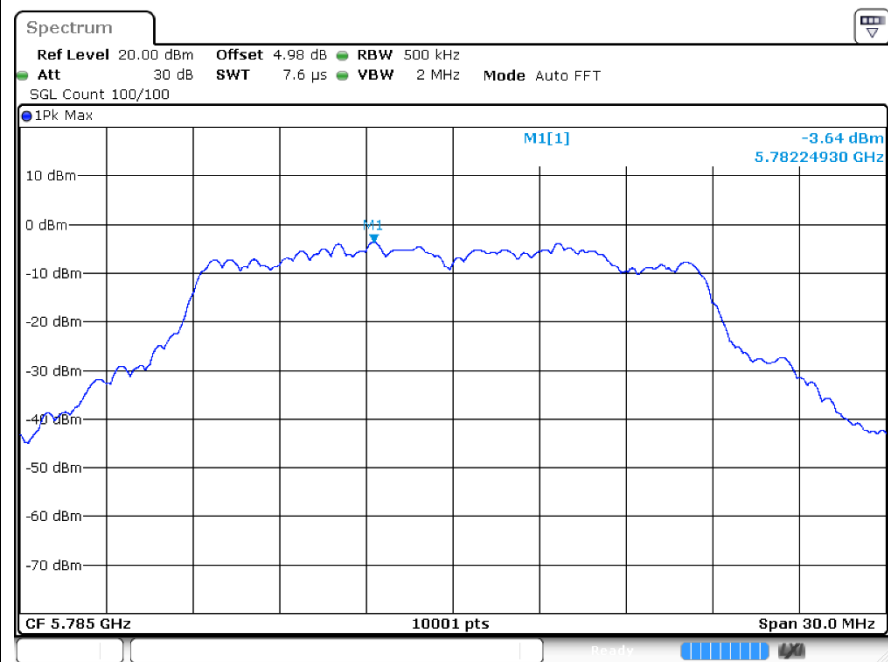


PSD n20 5785MHz Ant1

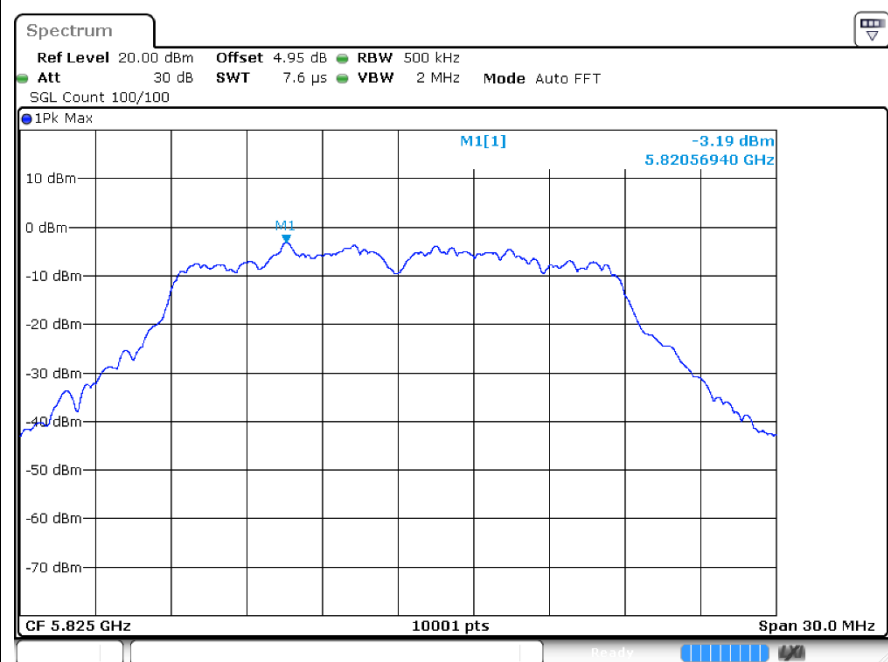




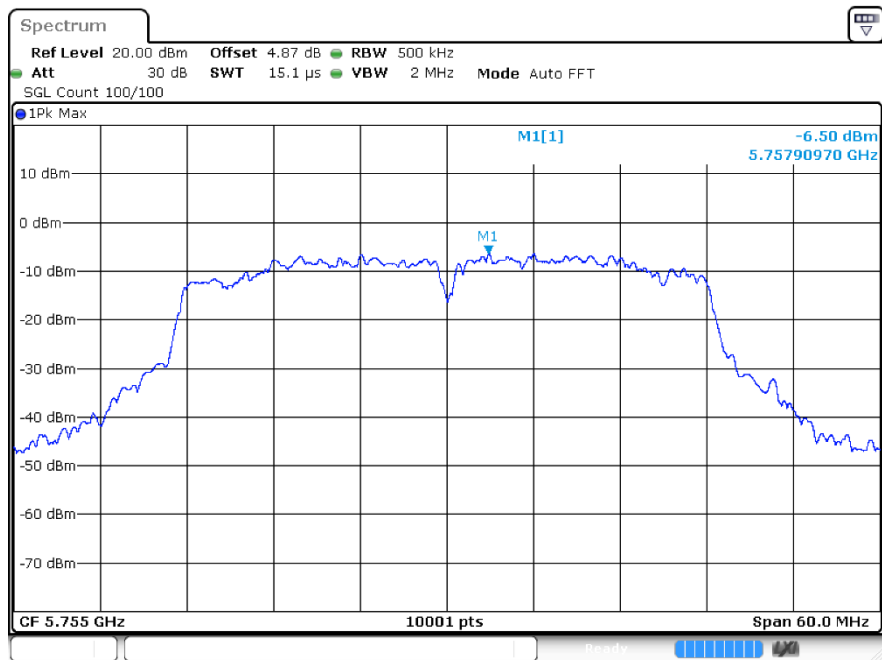
PSD n20 5785MHz Ant2



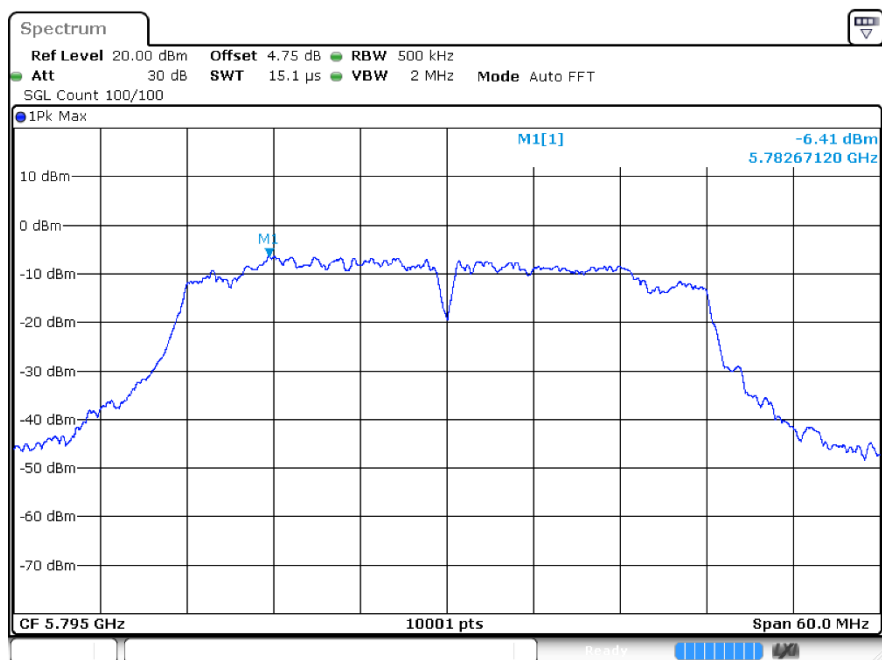
PSD n20 5825MHz Ant2



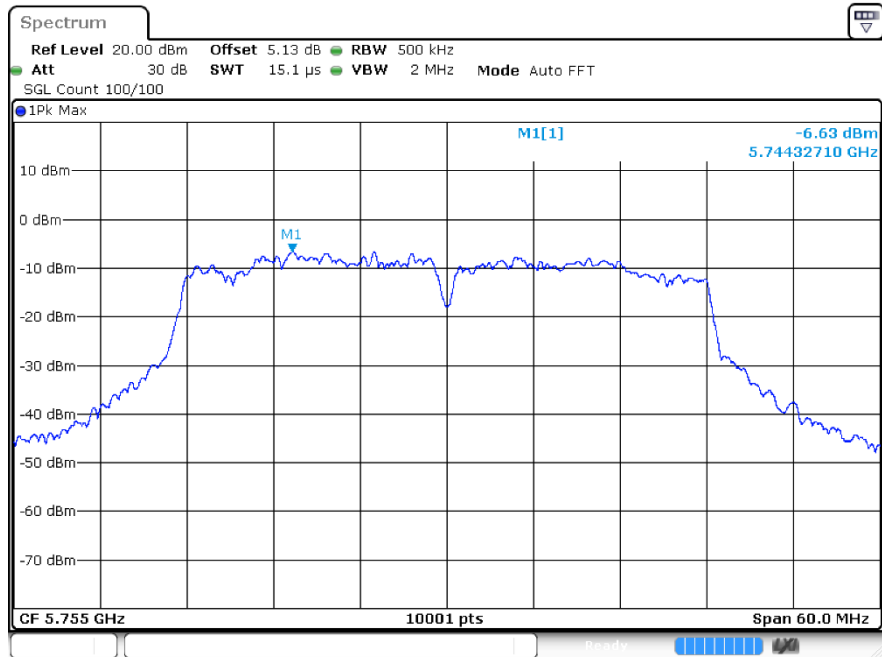
PSD n40 5755MHz Ant1



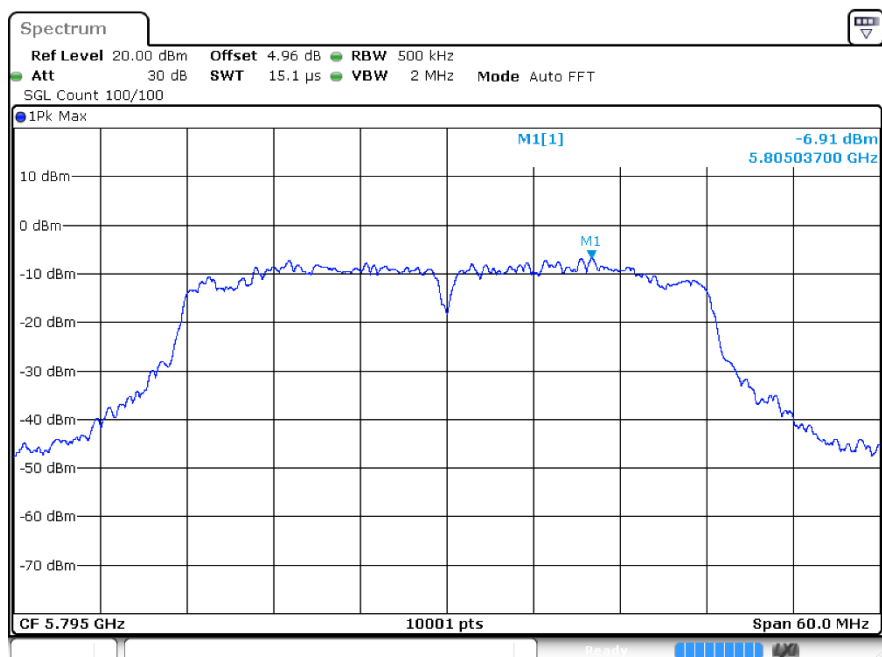
PSD n40 5795MHz Ant1



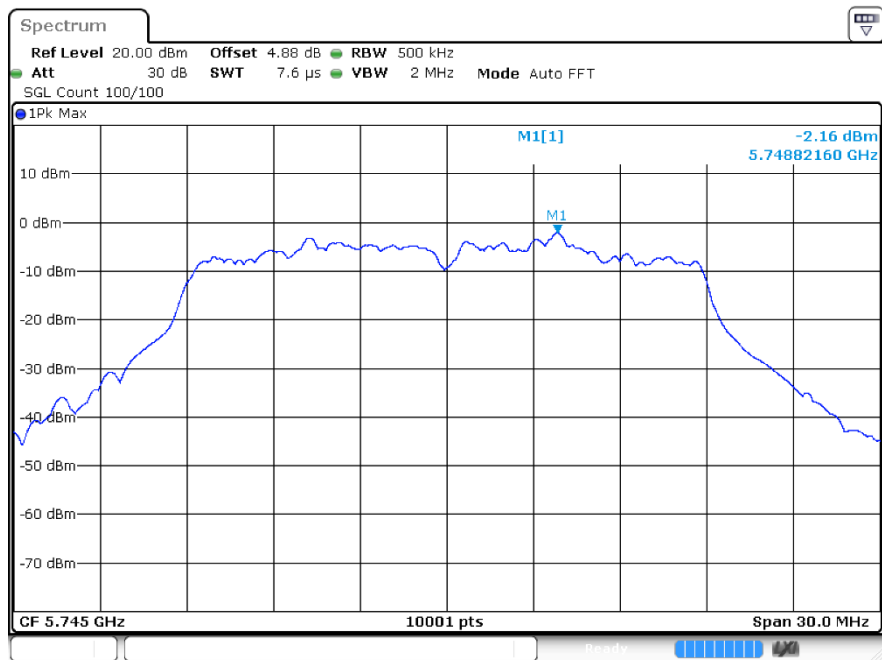
PSD n40 5755MHz Ant2



PSD n40 5795MHz Ant2



PSD ac20 5745MHz Ant1



PSD ac20 5785MHz Ant1

