



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Mini PC

Trade Mark: Blackview

Test Model: MP100 Pro

Environmental Conditions

Temperature:	25.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



Contents

	Page
COVER PAGE	
1 Duty Cycle.....	3
1.1 Test Result.....	3
1.2 Test Graphs.....	5
2 Maximum Conducted Output Power.....	24
2.1 Test Result.....	24
3 -6dB Bandwidth.....	26
3.1 Test Result.....	26
3.2 Test Graphs.....	28
4 Occupied Channel Bandwidth.....	48
4.1 Test Result.....	48
4.2 Test Graphs.....	50
5 Maximum Power Spectral Density Level.....	70
5.1 Test Result.....	70
5.2 Test Graphs.....	72
6 Frequency Stability.....	92
6.1 Test Result.....	92
7 Conducted RF Spurious Emission.....	102
7.1 Test Result.....	102
7.2 Test Graphs.....	104



1 Duty Cycle

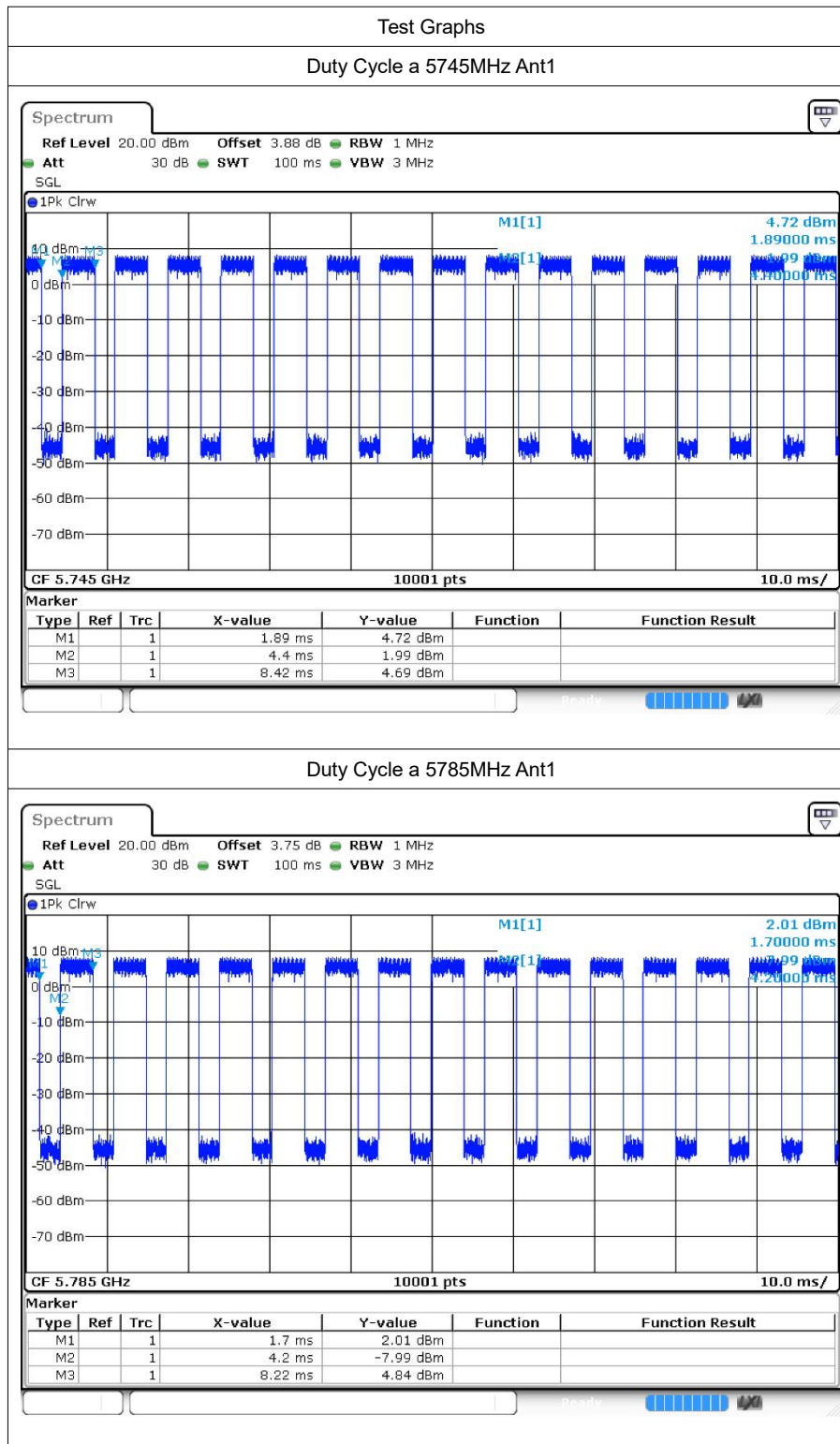
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	62.42	2.05	0.25
a	5785	Ant1	62.22	2.06	0.25
a	5825	Ant1	62.04	2.07	0.25
a	5745	Ant2	62.09	2.07	0.25
a	5785	Ant2	61.98	2.08	0.25
a	5825	Ant2	62.16	2.06	0.25
n20	5745	Ant1	65.91	1.81	0.2
n20	5785	Ant1	67.6	1.7	0.2
n20	5825	Ant1	67.47	1.71	0.2
n20	5745	Ant2	67.61	1.7	0.2
n20	5785	Ant2	67.04	1.74	0.2
n20	5825	Ant2	67.45	1.71	0.2
n40	5755	Ant1	61.13	2.14	0.26
n40	5795	Ant1	60	2.22	0.26
n40	5755	Ant2	60.47	2.18	0.26
n40	5795	Ant2	60.14	2.21	0.26
ac20	5745	Ant1	66.38	1.78	0.2
ac20	5785	Ant1	66.79	1.75	0.2
ac20	5825	Ant1	67.05	1.74	0.2
ac20	5745	Ant2	66.43	1.78	0.2
ac20	5785	Ant2	66.37	1.78	0.2
ac20	5825	Ant2	67.59	1.7	0.2
ac40	5755	Ant1	62.36	2.05	0.26
ac40	5795	Ant1	60.56	2.18	0.26
ac40	5755	Ant2	60.44	2.19	0.26
ac40	5795	Ant2	60.13	2.21	0.26
ac80	5775	Ant1	52.77	2.78	0.36
ac80	5775	Ant2	52.67	2.78	0.36
ax20	5745	Ant1	64.79	1.88	0.22
ax20	5785	Ant1	62.82	2.02	0.22
ax20	5825	Ant1	62.65	2.03	0.22
ax20	5745	Ant2	62.8	2.02	0.23
ax20	5785	Ant2	62.88	2.01	0.22
ax20	5825	Ant2	62.9	2.01	0.22
ax40	5755	Ant1	60	2.22	0.28
ax40	5795	Ant1	59.57	2.25	0.28
ax40	5755	Ant2	60.13	2.21	0.28

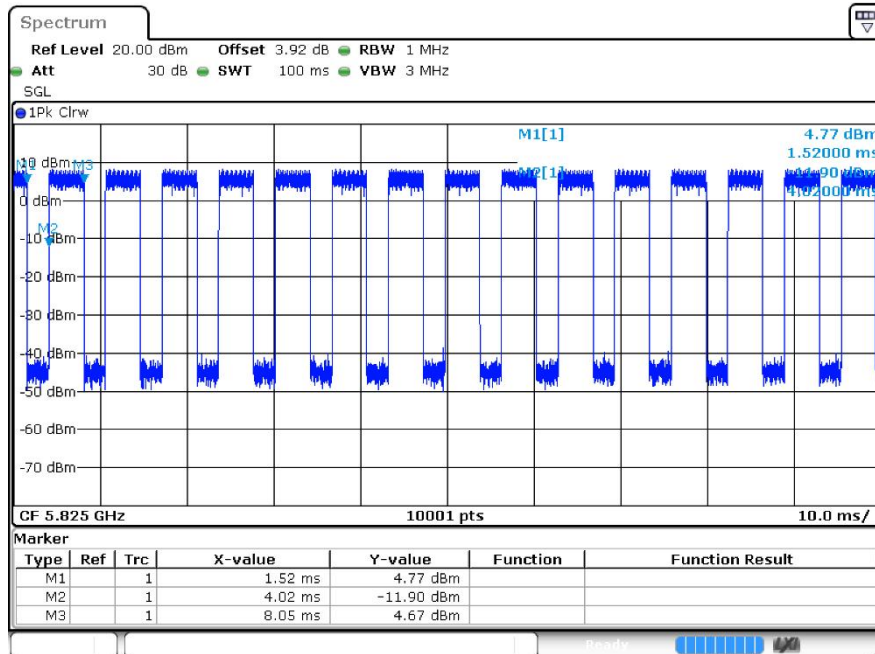


ax40	5795	Ant2	60.13	2.21	0.28
ax80	5775	Ant1	52.35	2.81	0.38
ax80	5775	Ant2	51.14	2.91	0.37

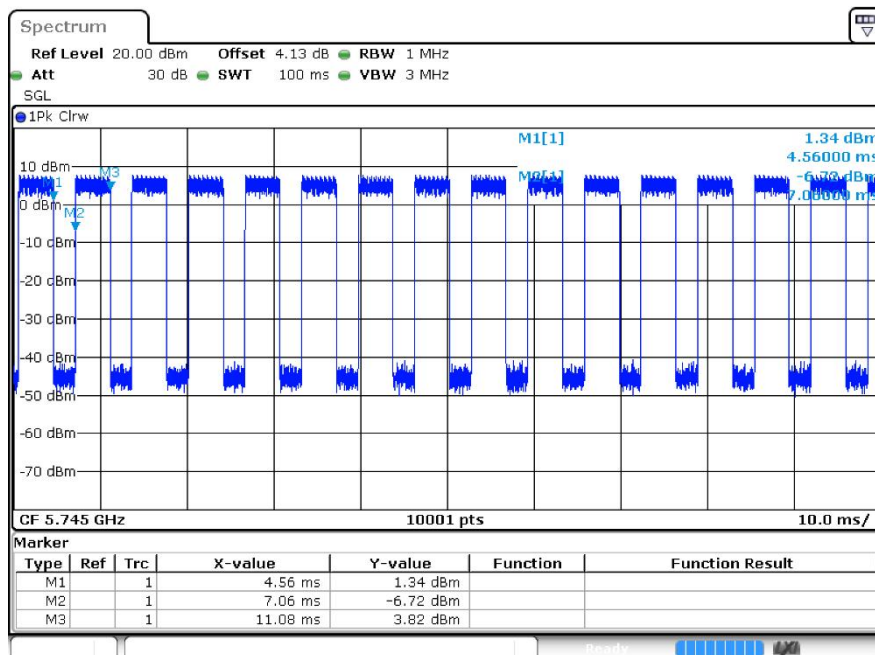
1.2 Test Graphs



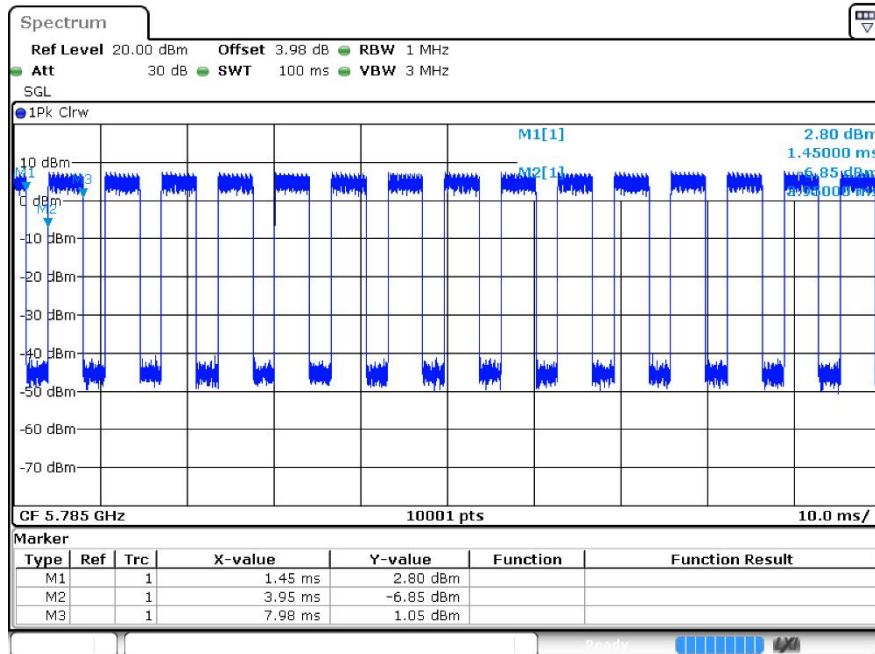
Duty Cycle a 5825MHz Ant1



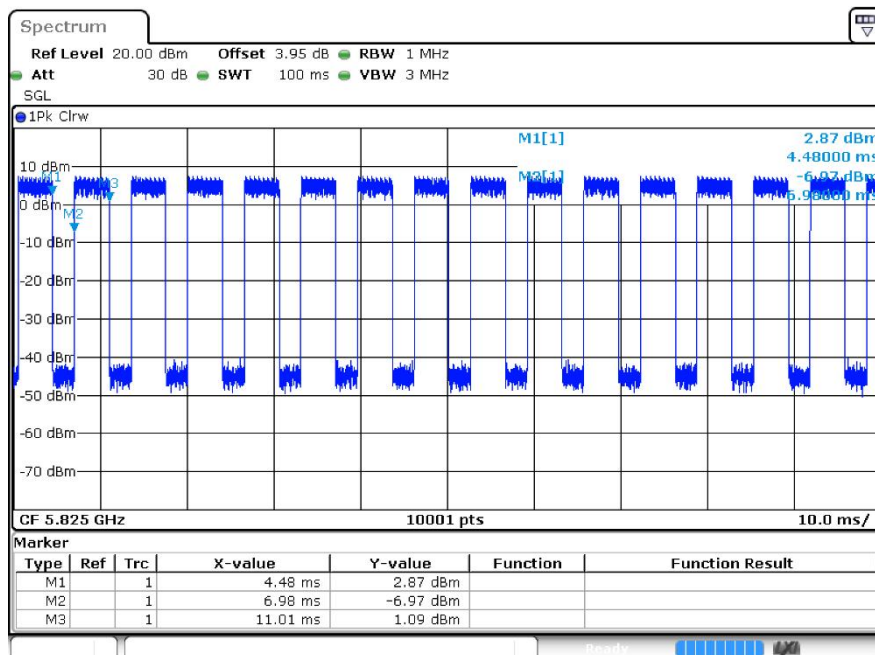
Duty Cycle a 5745MHz Ant2



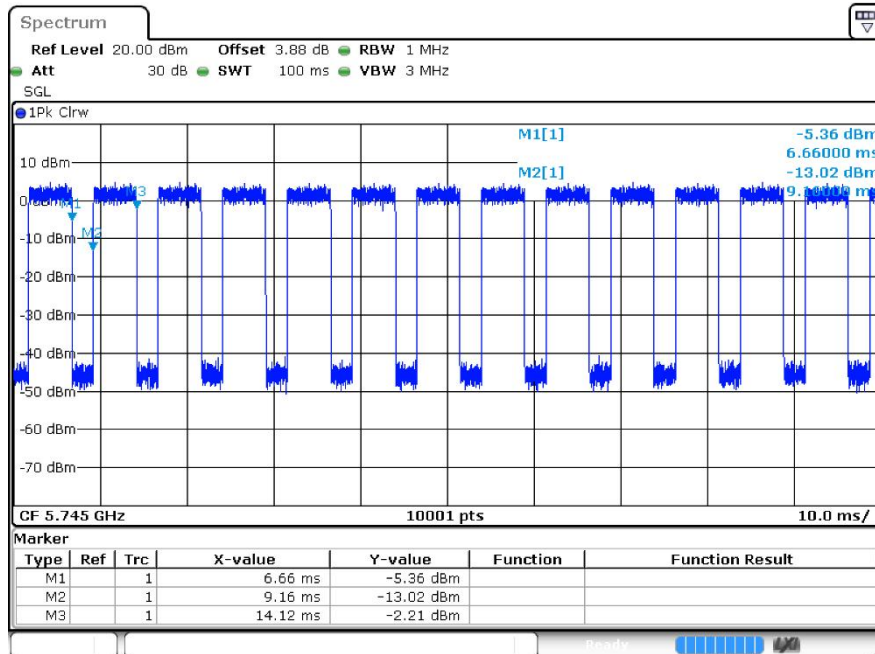
Duty Cycle a 5785MHz Ant2



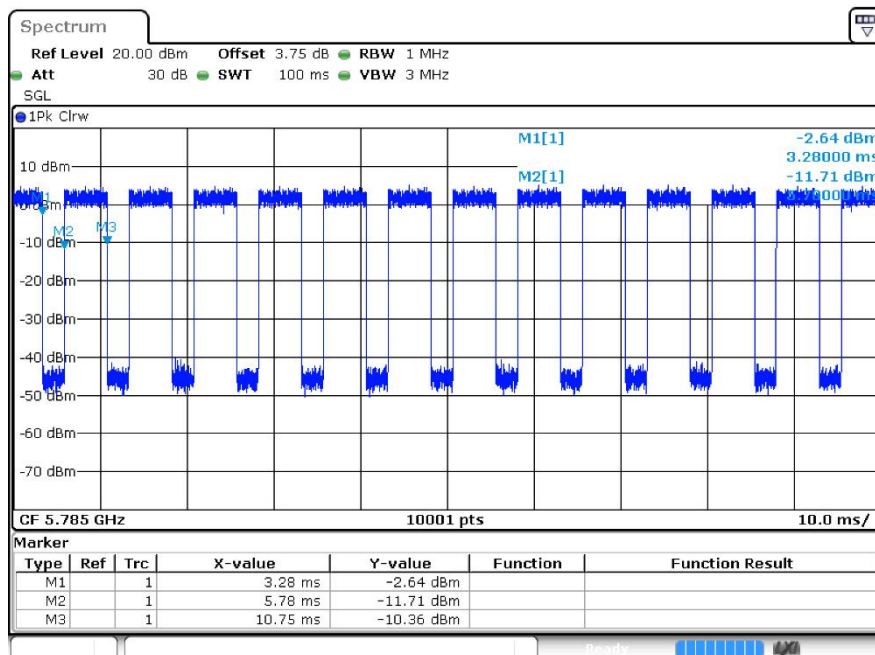
Duty Cycle a 5825MHz Ant2



Duty Cycle n20 5745MHz Ant1

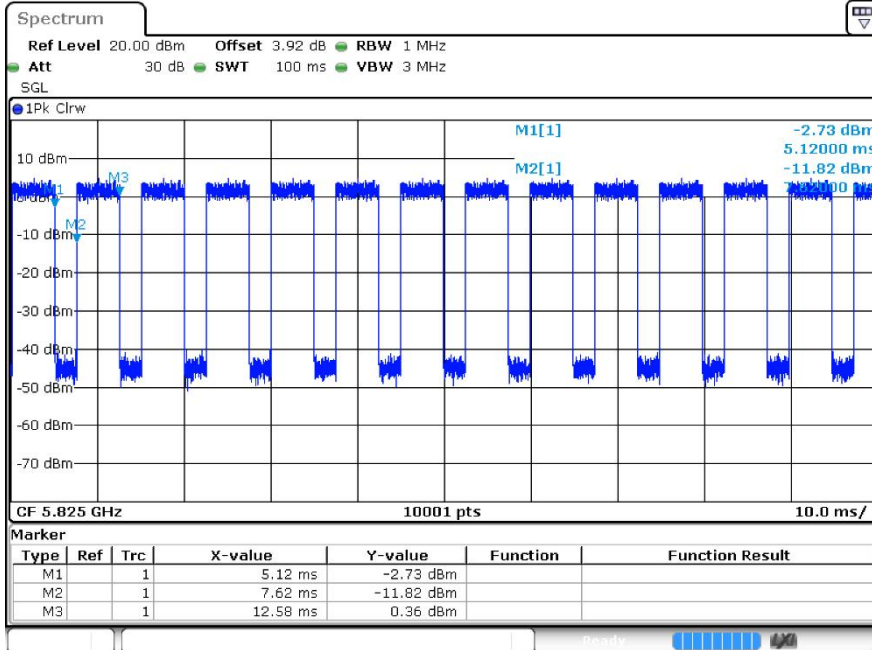


Duty Cycle n20 5785MHz Ant1

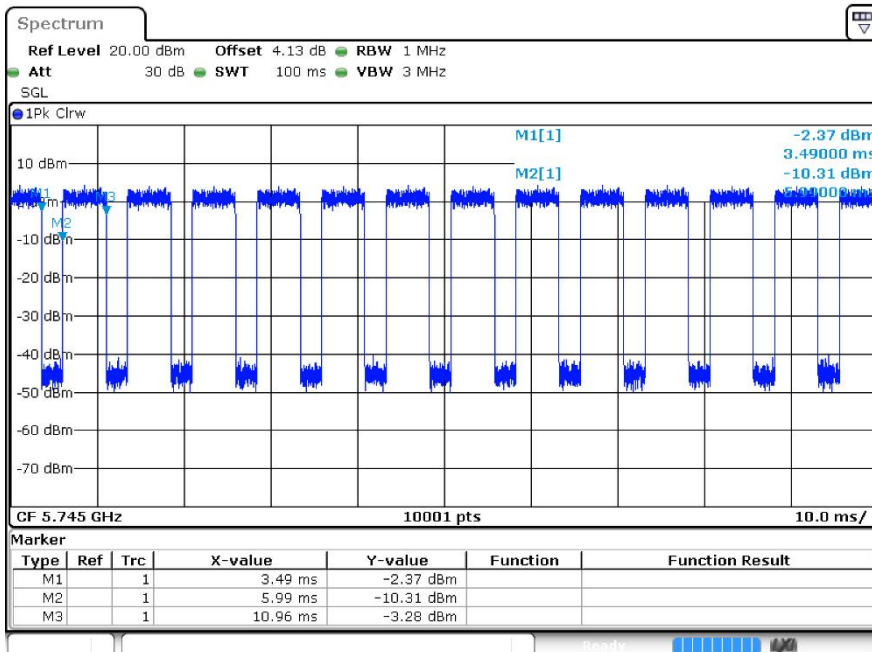




Duty Cycle n20 5825MHz Ant1

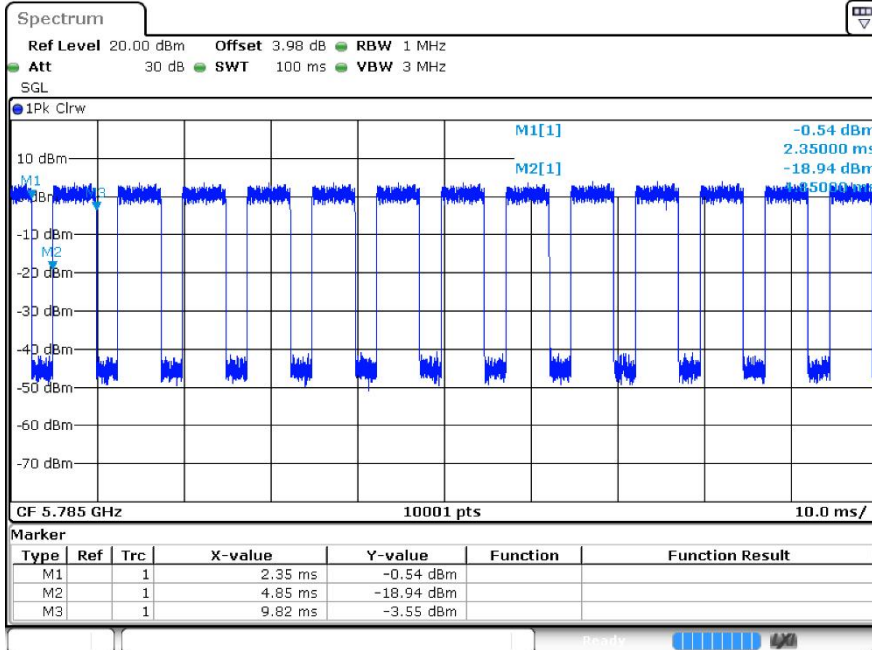


Duty Cycle n20 5745MHz Ant2

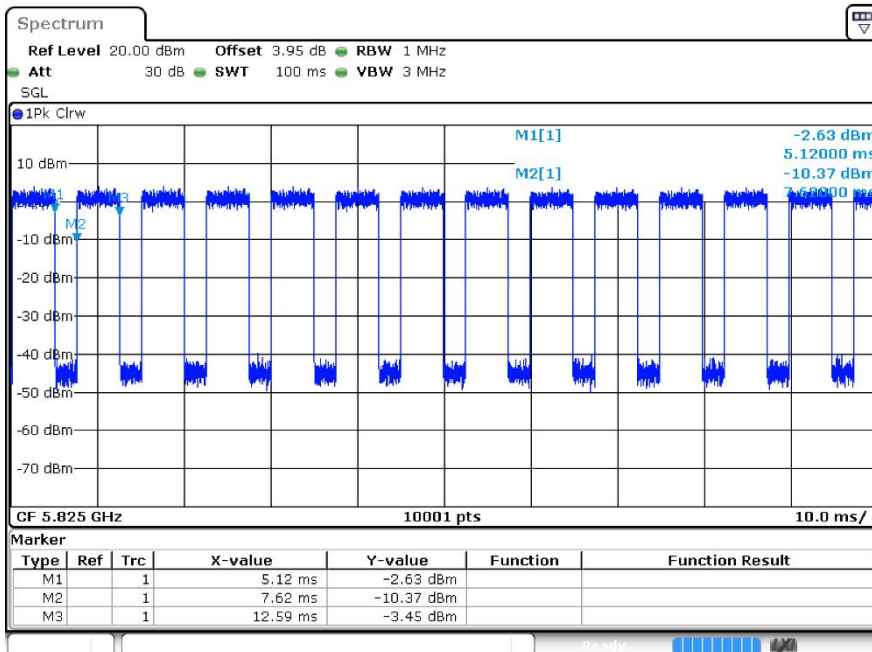




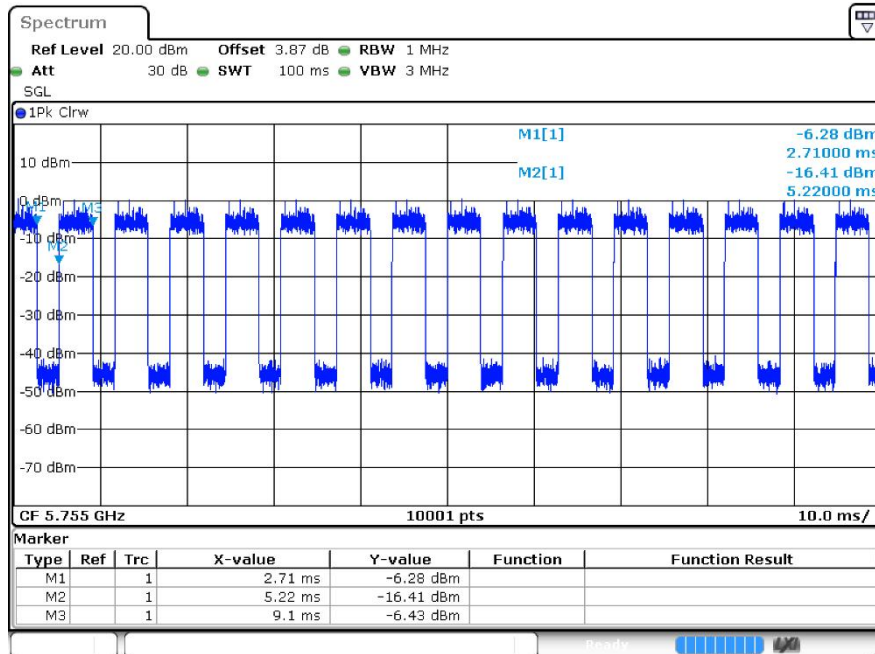
Duty Cycle n20 5785MHz Ant2



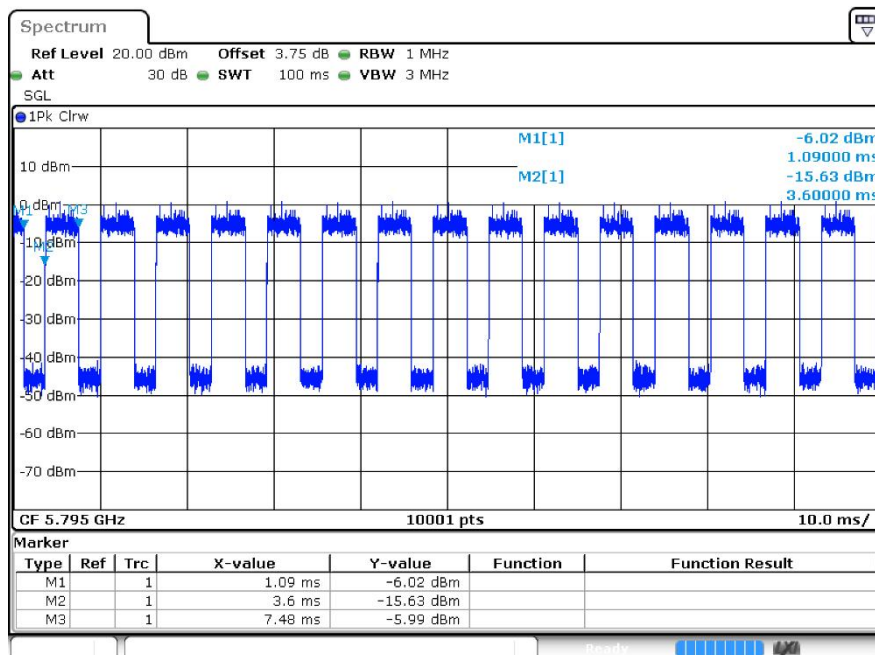
Duty Cycle n20 5825MHz Ant2



Duty Cycle n40 5755MHz Ant1

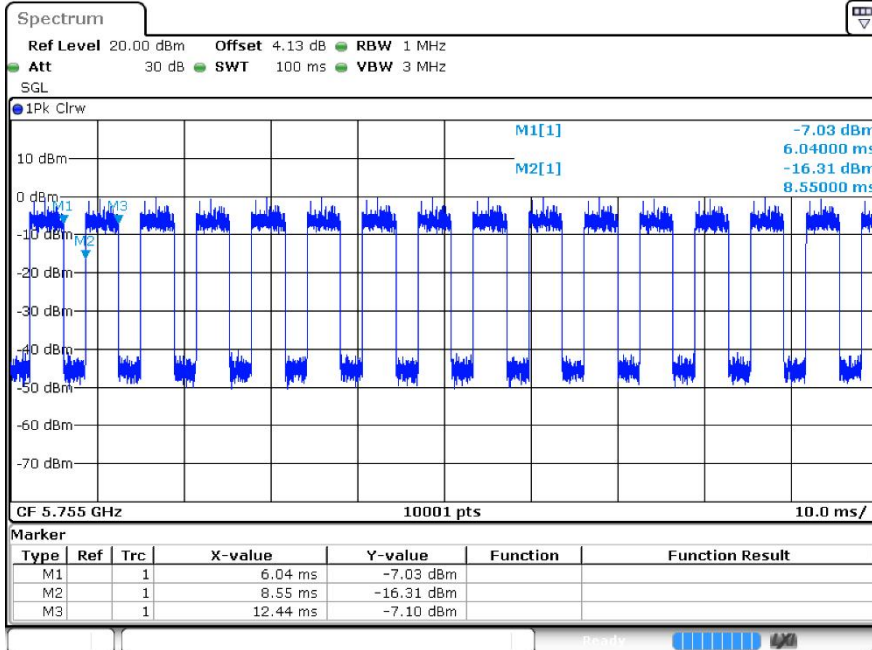


Duty Cycle n40 5795MHz Ant1

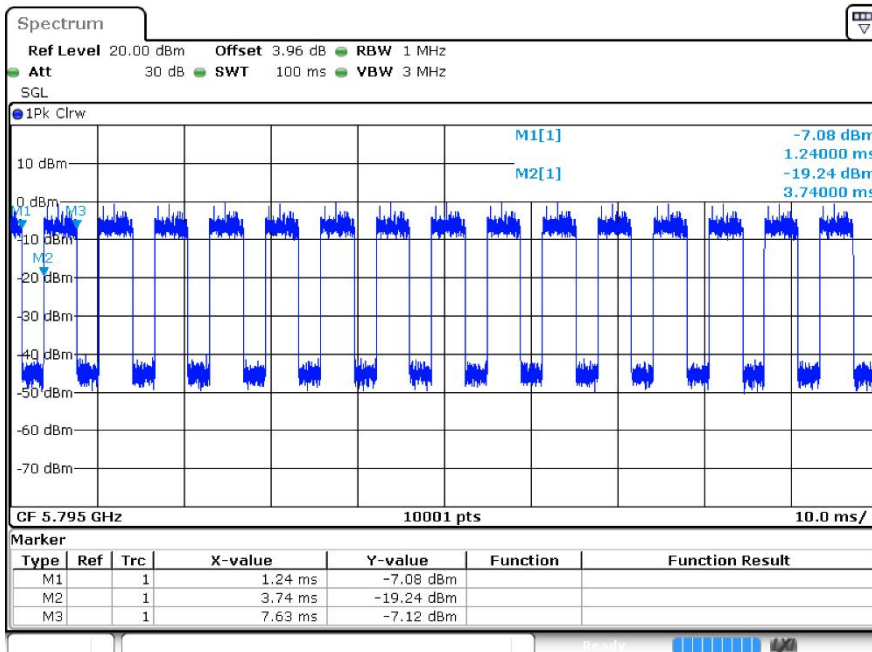




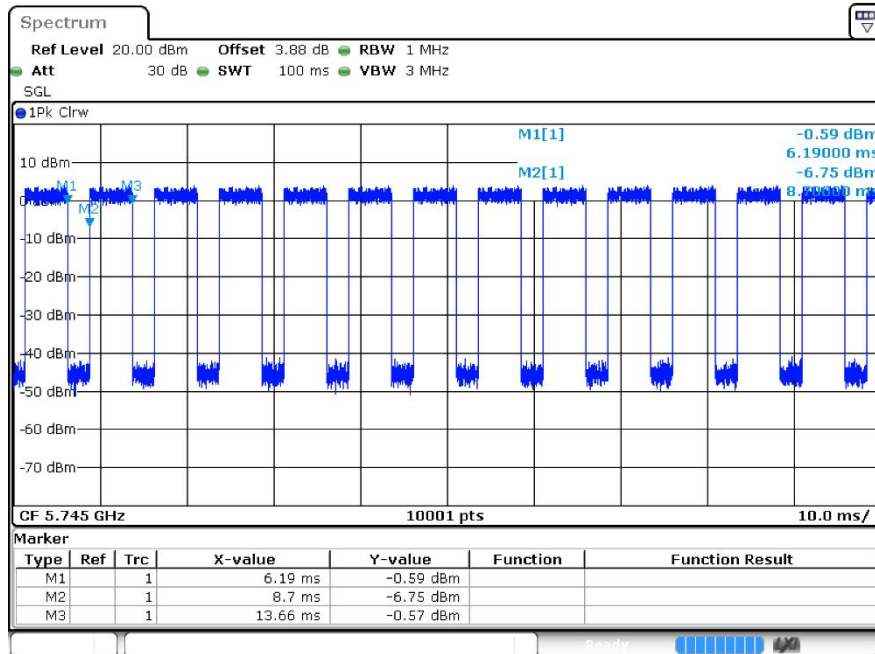
Duty Cycle n40 5755MHz Ant2



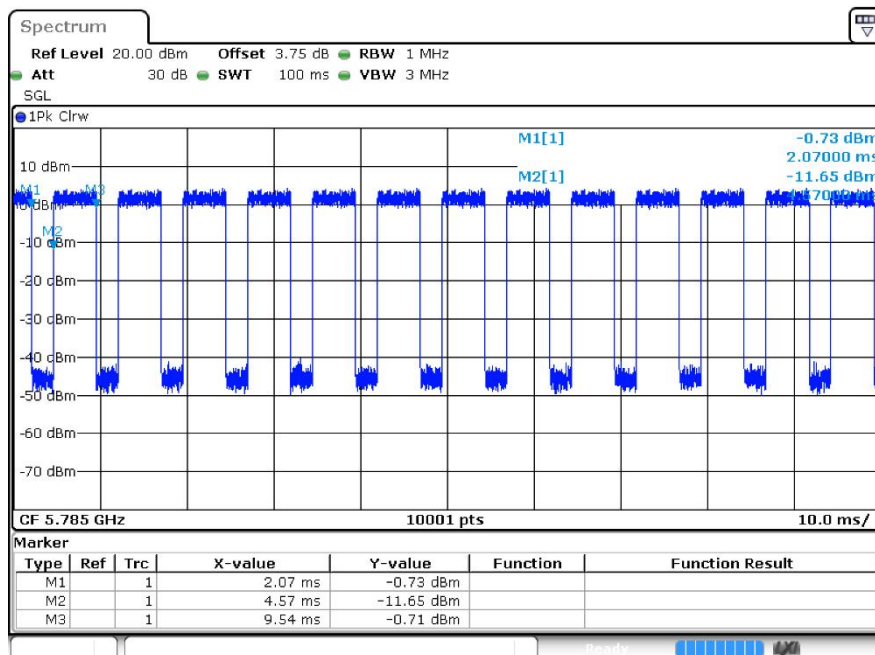
Duty Cycle n40 5795MHz Ant2



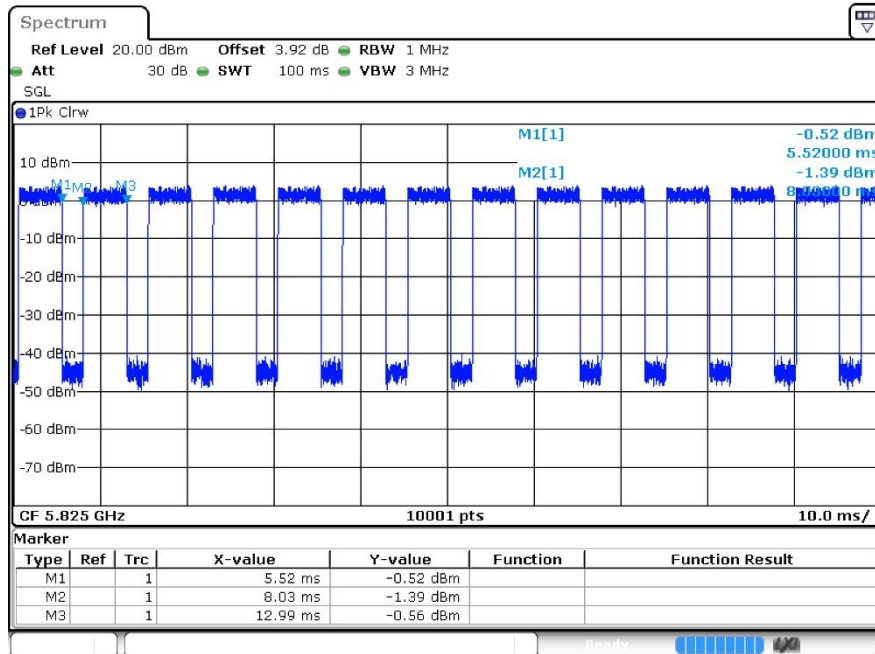
Duty Cycle ac20 5745MHz Ant1



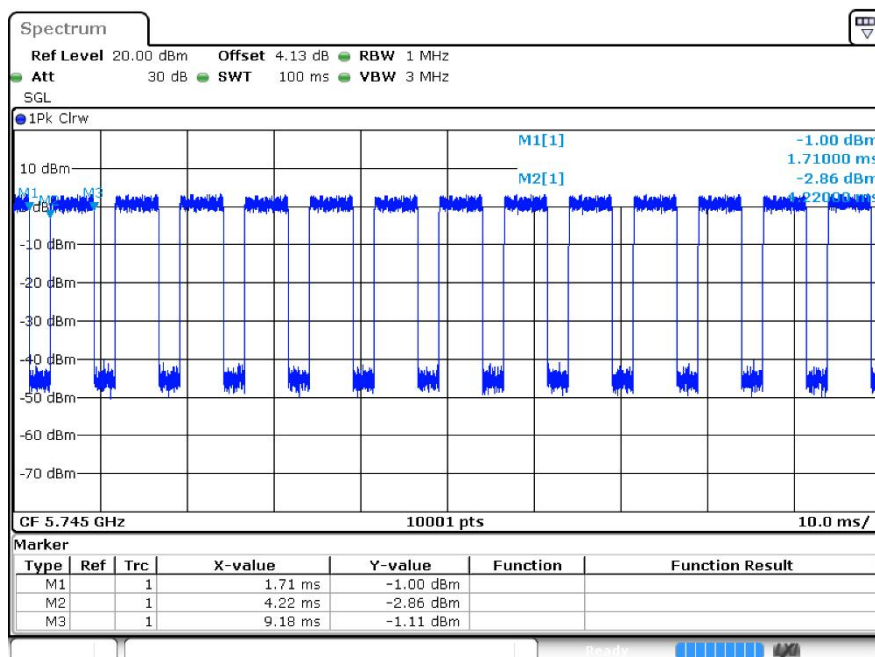
Duty Cycle ac20 5785MHz Ant1



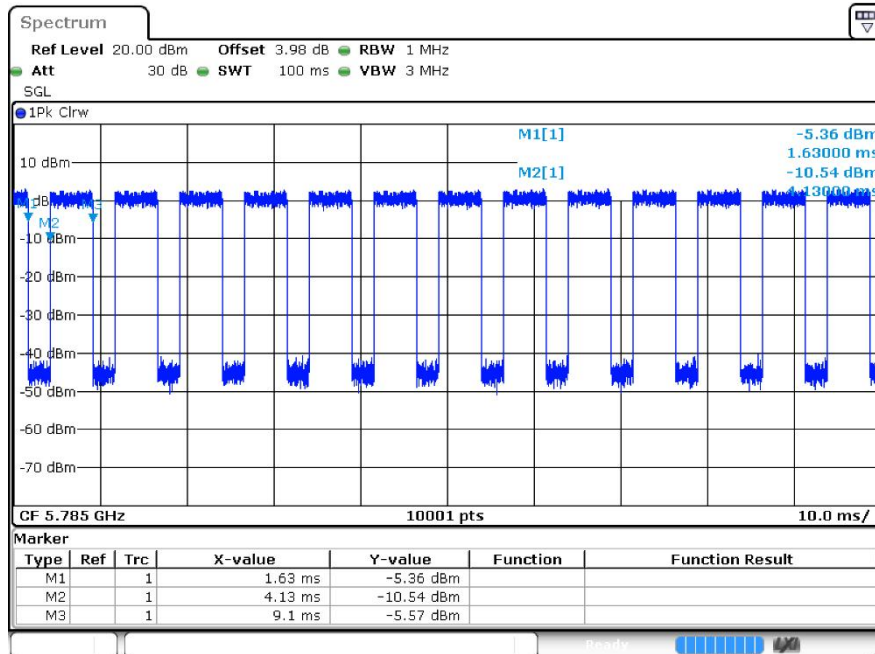
Duty Cycle ac20 5825MHz Ant1



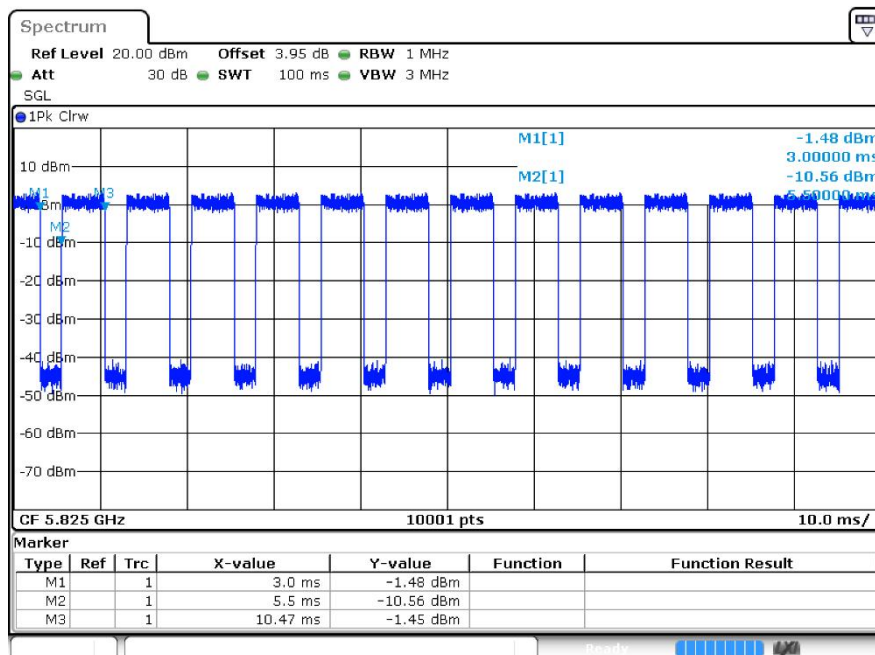
Duty Cycle ac20 5745MHz Ant2



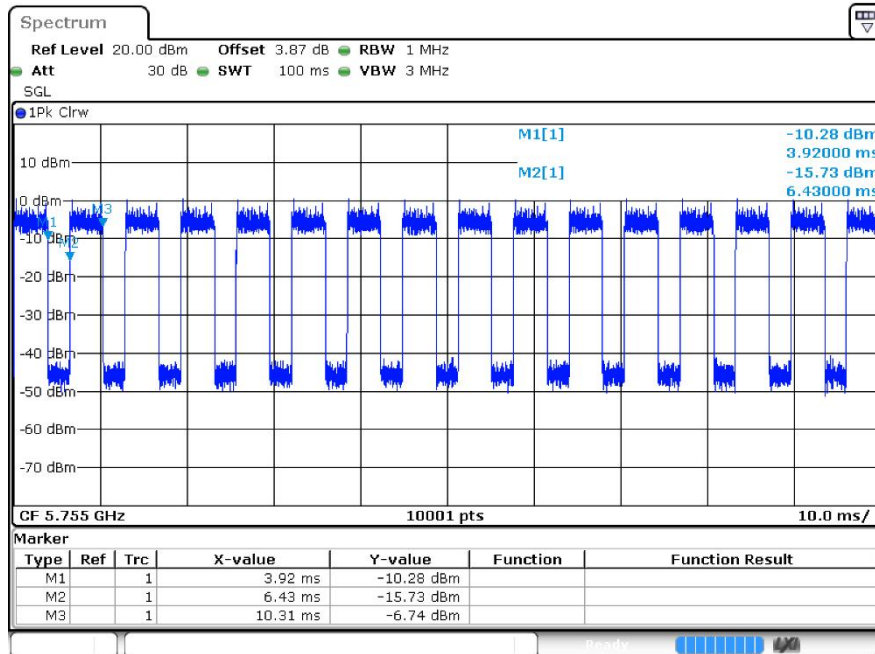
Duty Cycle ac20 5785MHz Ant2



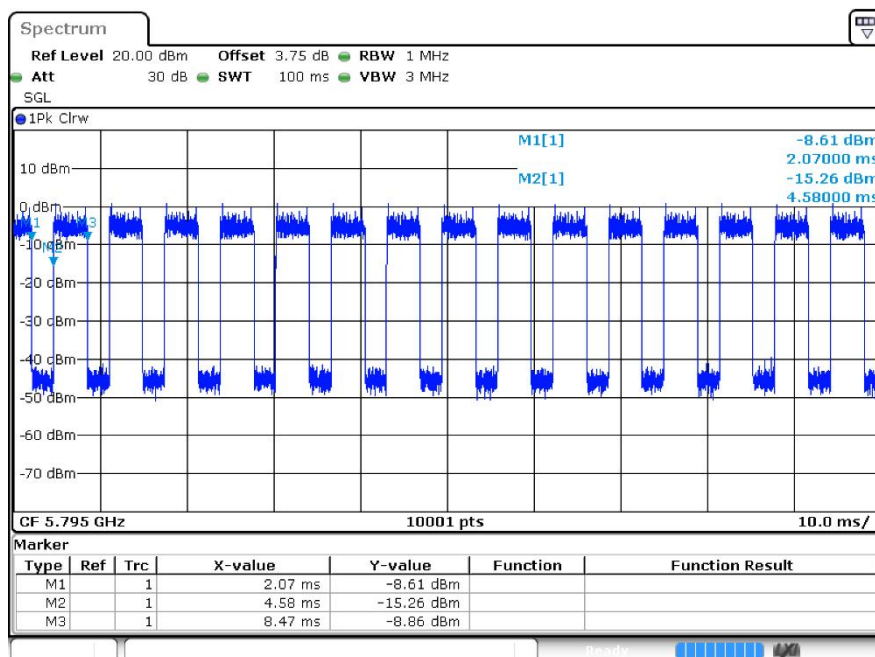
Duty Cycle ac20 5825MHz Ant2



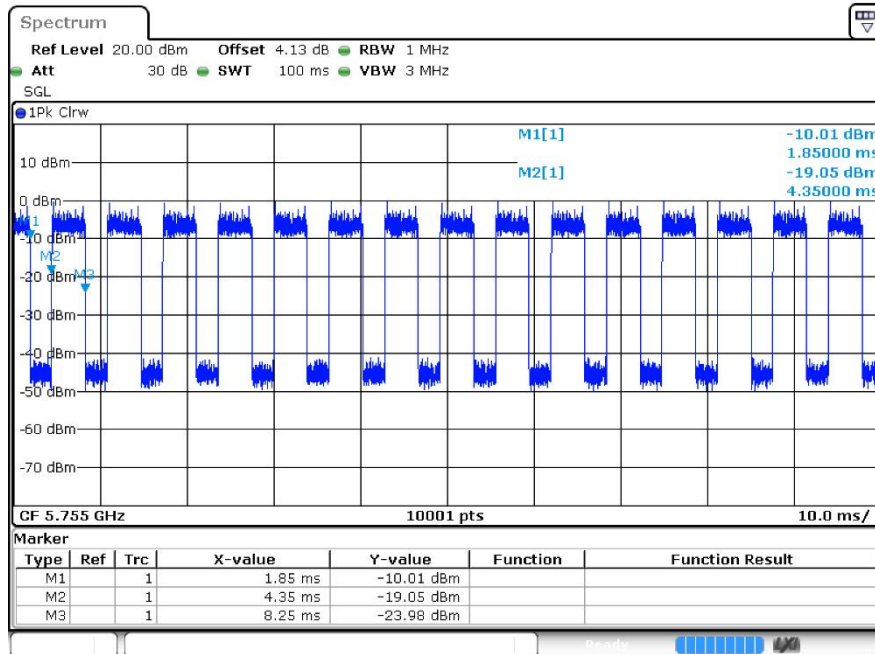
Duty Cycle ac40 5755MHz Ant1



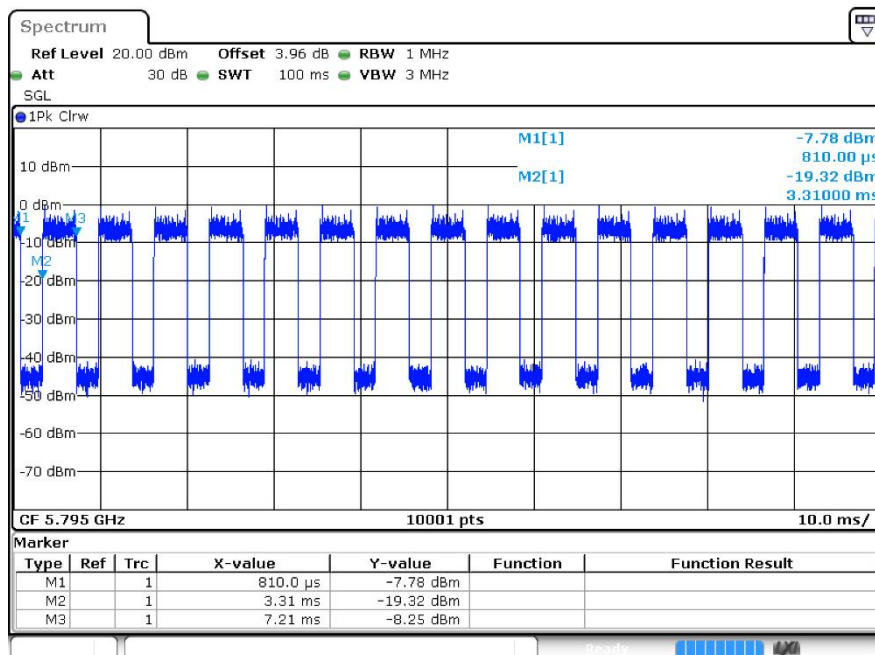
Duty Cycle ac40 5795MHz Ant1



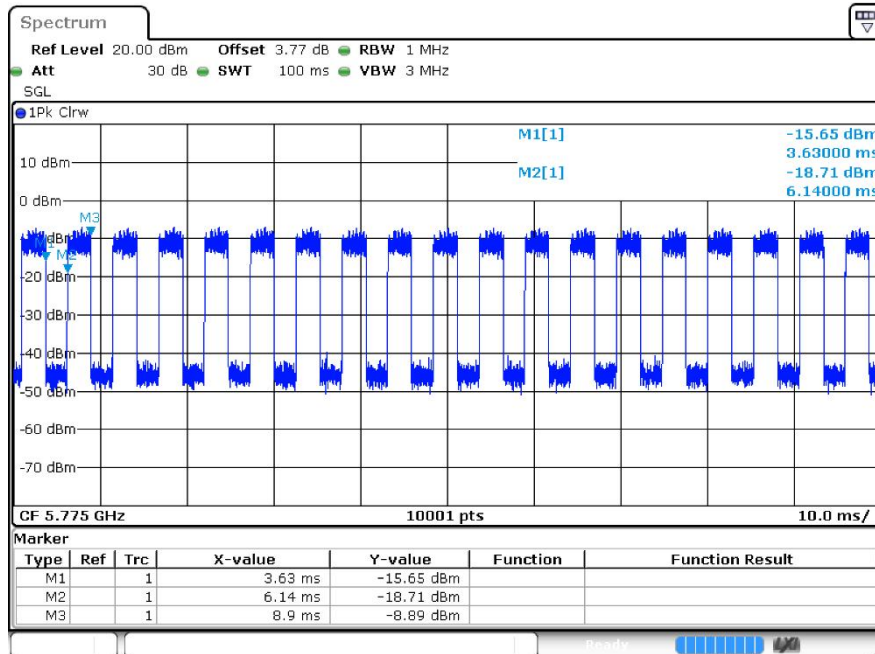
Duty Cycle ac40 5755MHz Ant2



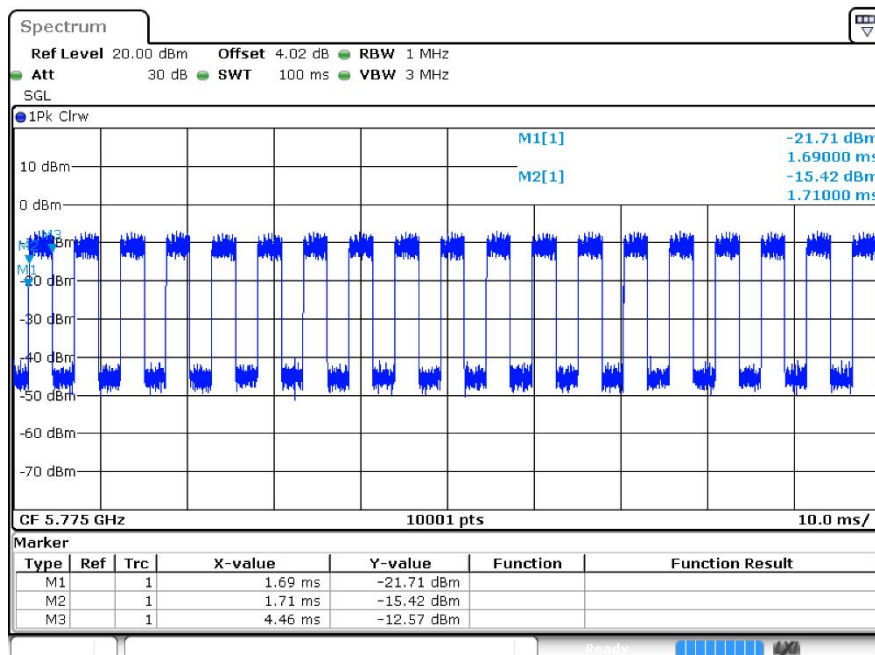
Duty Cycle ac40 5795MHz Ant2



Duty Cycle ac80 5775MHz Ant1

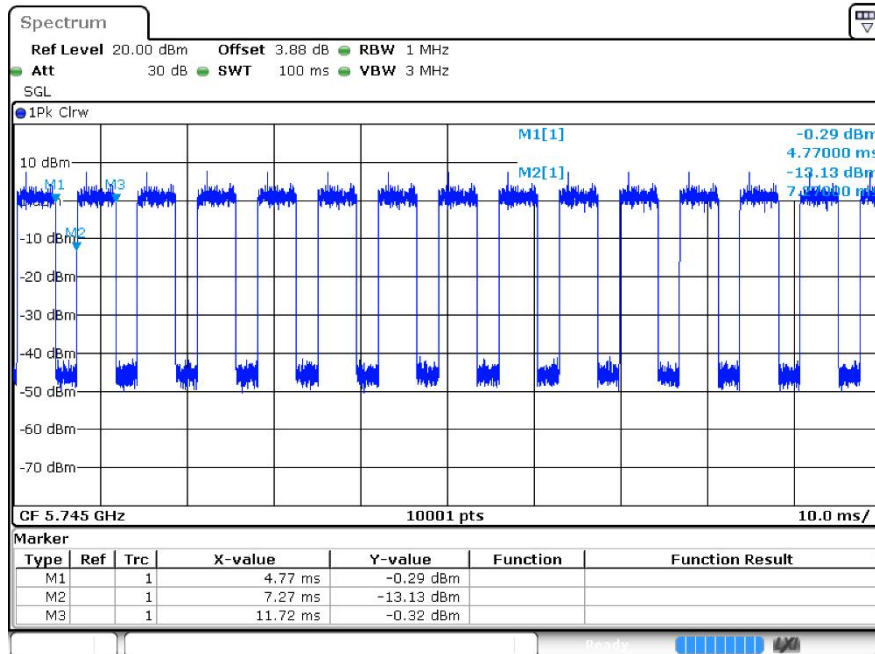


Duty Cycle ac80 5775MHz Ant2

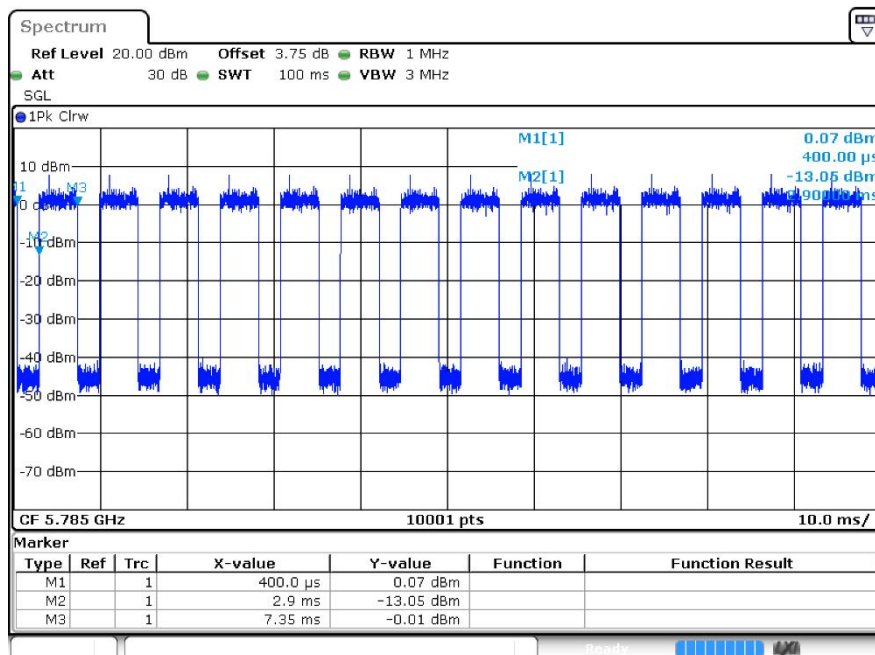




Duty Cycle ax20 5745MHz Ant1

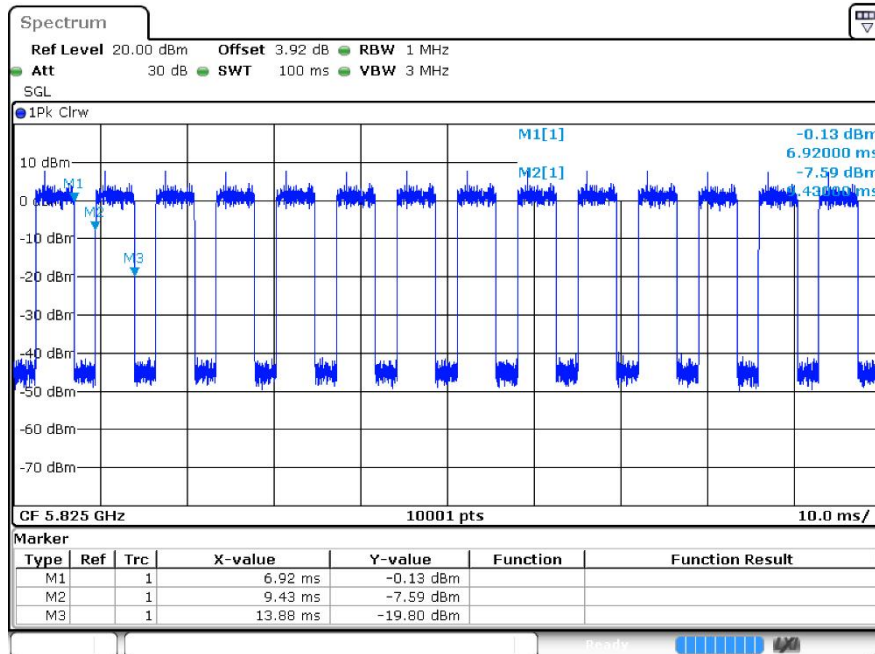


Duty Cycle ax20 5785MHz Ant1

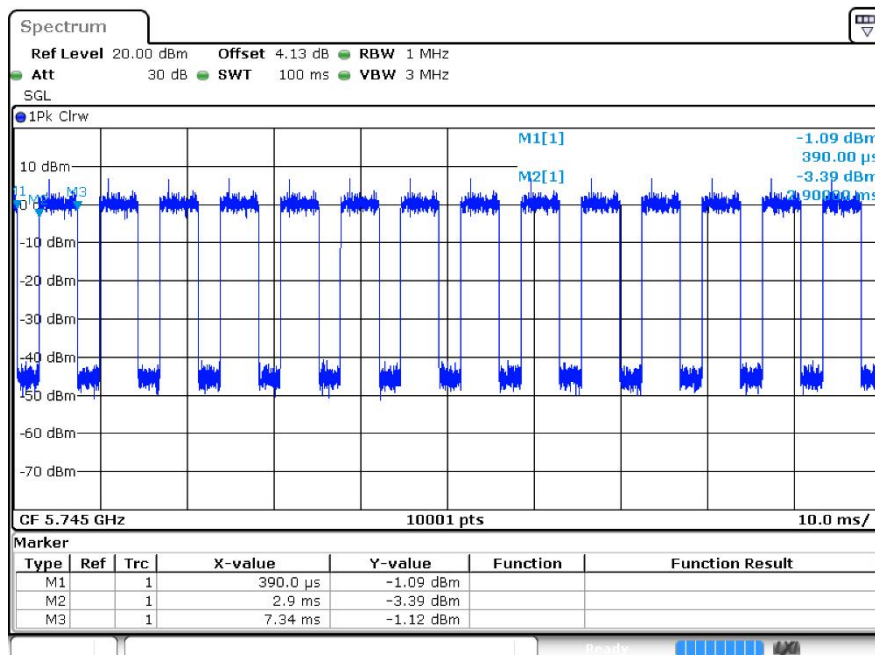




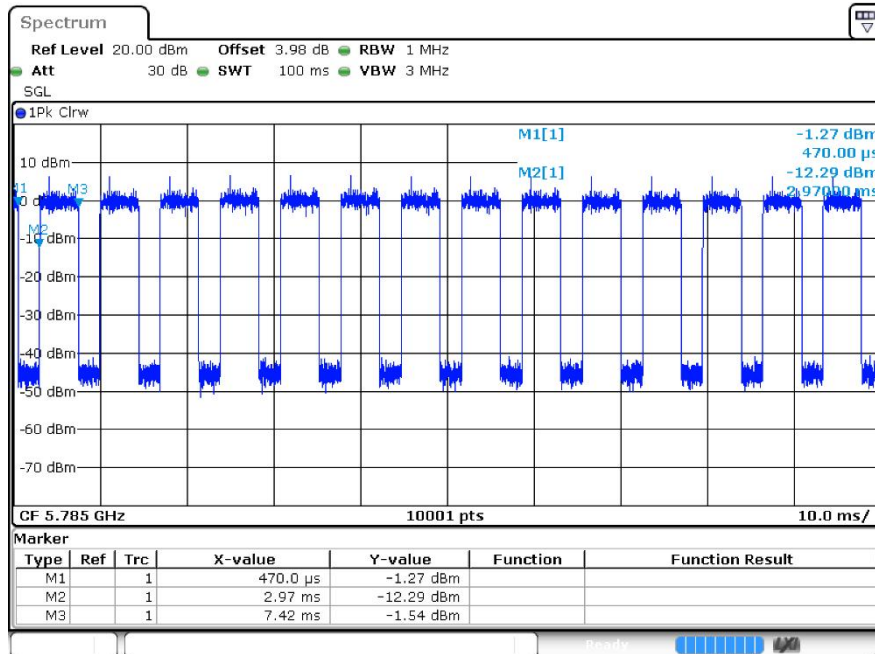
Duty Cycle ax20 5825MHz Ant1



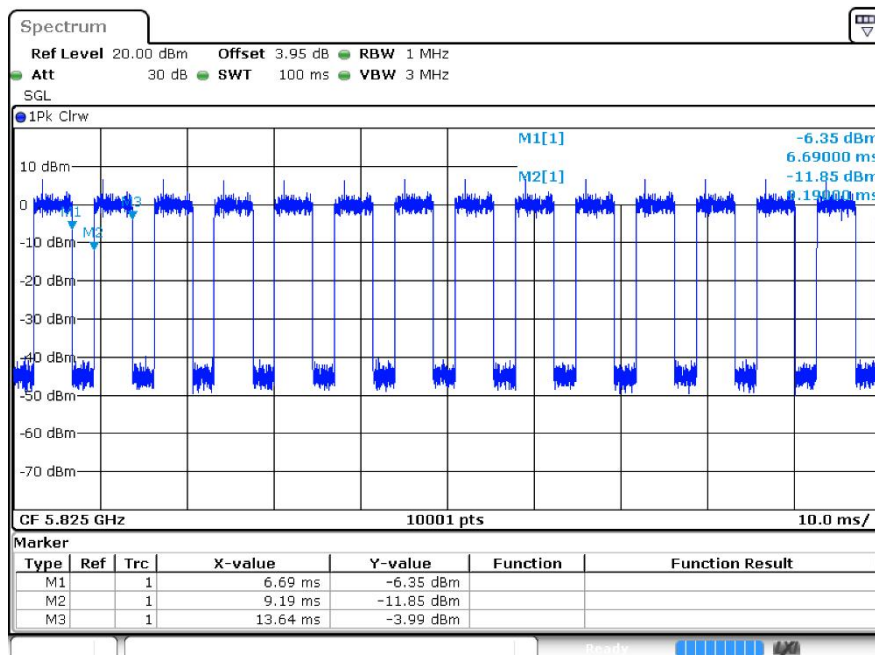
Duty Cycle ax20 5745MHz Ant2



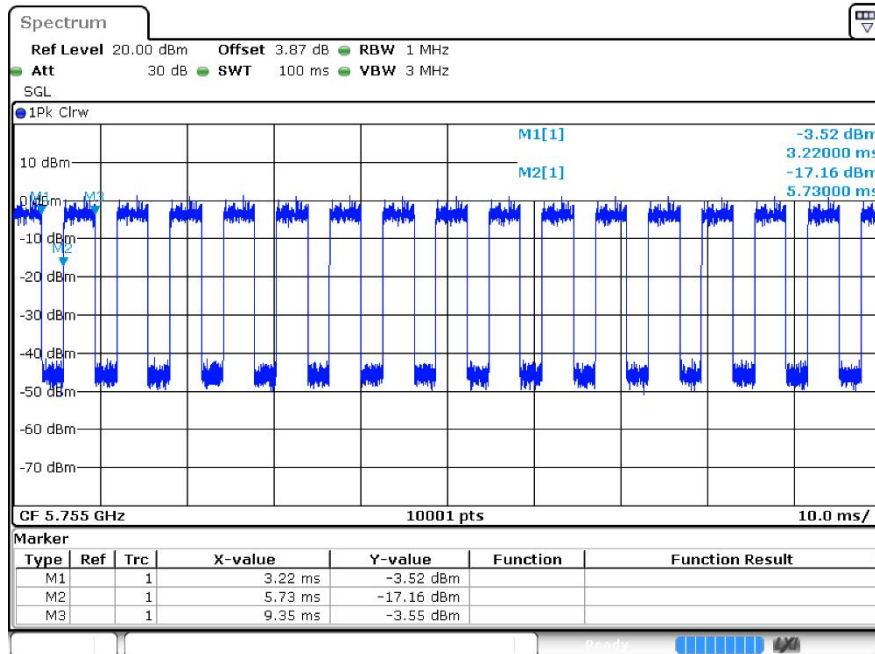
Duty Cycle ax20 5785MHz Ant2



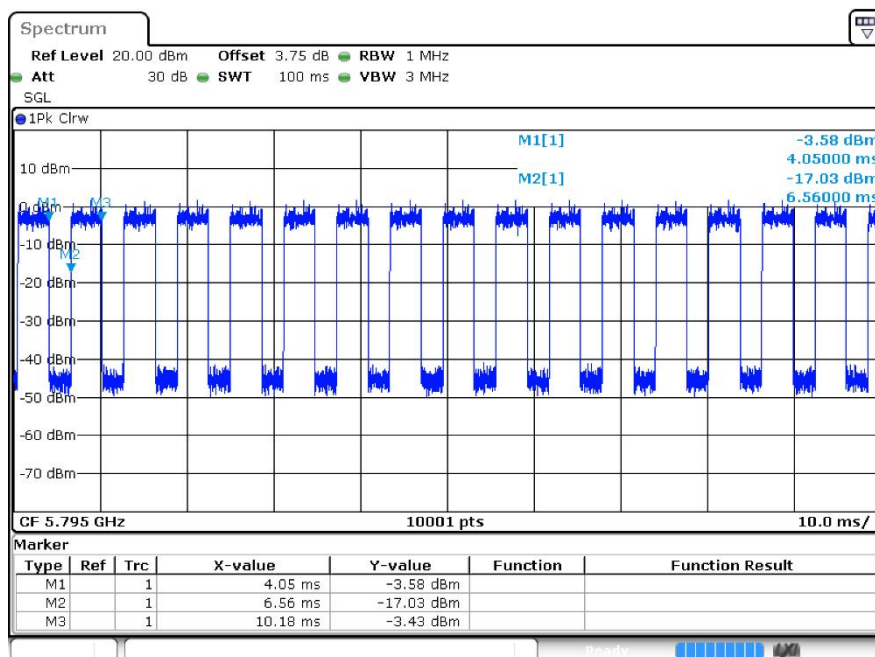
Duty Cycle ax20 5825MHz Ant2



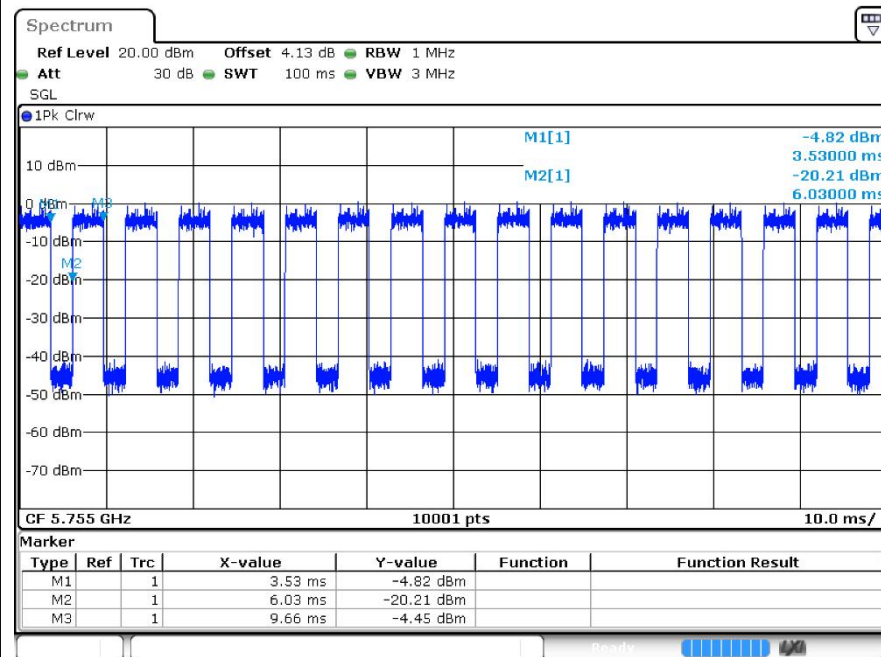
Duty Cycle ax40 5755MHz Ant1



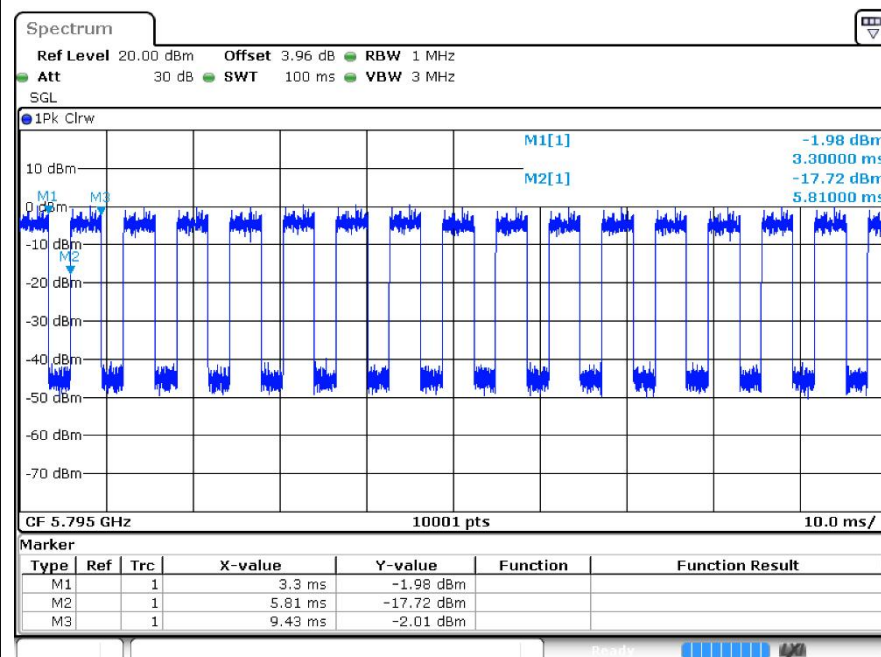
Duty Cycle ax40 5795MHz Ant1



Duty Cycle ax40 5755MHz Ant2



Duty Cycle ax40 5795MHz Ant2



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	16.19	30	Pass
a	5785	Ant1	16.29	30	Pass
a	5825	Ant1	16.26	30	Pass
a	5745	Ant2	15.28	30	Pass
a	5785	Ant2	15	30	Pass
a	5825	Ant2	15.06	30	Pass
n20	5745	Ant1	12.25	30	Pass
n20	5745	Ant2	11.71	30	Pass
n20	5745	Sum	15.2	29.95	Pass
n20	5785	Ant1	12.48	30	Pass
n20	5785	Ant2	11.49	30	Pass
n20	5785	Sum	15.07	29.95	Pass
n20	5825	Ant1	12.28	30	Pass
n20	5825	Ant2	11.47	30	Pass
n20	5825	Sum	15.02	29.95	Pass
n40	5755	Ant1	11.68	30	Pass
n40	5755	Ant2	10.99	30	Pass
n40	5755	Sum	14.55	29.95	Pass
n40	5795	Ant1	12.1	30	Pass
n40	5795	Ant2	10.85	30	Pass
n40	5795	Sum	14.51	29.95	Pass
ac20	5745	Ant1	12.24	30	Pass
ac20	5745	Ant2	11.87	30	Pass
ac20	5745	Sum	15.11	29.95	Pass
ac20	5785	Ant1	12.56	30	Pass
ac20	5785	Ant2	11.56	30	Pass
ac20	5785	Sum	15.06	29.95	Pass
ac20	5825	Ant1	12.36	30	Pass
ac20	5825	Ant2	11.61	30	Pass
ac20	5825	Sum	14.99	29.95	Pass
ac40	5755	Ant1	11.76	30	Pass
ac40	5755	Ant2	11.04	30	Pass
ac40	5755	Sum	14.45	29.95	Pass
ac40	5795	Ant1	12.09	30	Pass
ac40	5795	Ant2	10.86	30	Pass
ac40	5795	Sum	14.55	29.95	Pass



ac80	5775	Ant1	11.24	30	Pass
ac80	5775	Ant2	10.09	30	Pass
ac80	5775	Sum	13.86	29.95	Pass
ax20	5745	Ant1	12.26	30	Pass
ax20	5745	Ant2	11.73	30	Pass
ax20	5745	Sum	15.17	29.95	Pass
ax20	5785	Ant1	12.61	30	Pass
ax20	5785	Ant2	11.56	30	Pass
ax20	5785	Sum	15.09	29.95	Pass
ax20	5825	Ant1	12.49	30	Pass
ax20	5825	Ant2	11.54	30	Pass
ax20	5825	Sum	14.95	29.95	Pass
ax40	5755	Ant1	11.82	30	Pass
ax40	5755	Ant2	10.99	30	Pass
ax40	5755	Sum	14.6	29.95	Pass
ax40	5795	Ant1	12.27	30	Pass
ax40	5795	Ant2	10.83	30	Pass
ax40	5795	Sum	14.49	29.95	Pass
ax80	5775	Ant1	11.26	30	Pass
ax80	5775	Ant2	10.28	30	Pass
ax80	5775	Sum	13.97	29.95	Pass

Note:

The duty factor has been compensated into the result.

The Directional Gain is 6.05dBi, which exceeds 0.05dBi. The limit value is $30 - 0.05 = 29.95$ dBm



3 -6dB Bandwidth

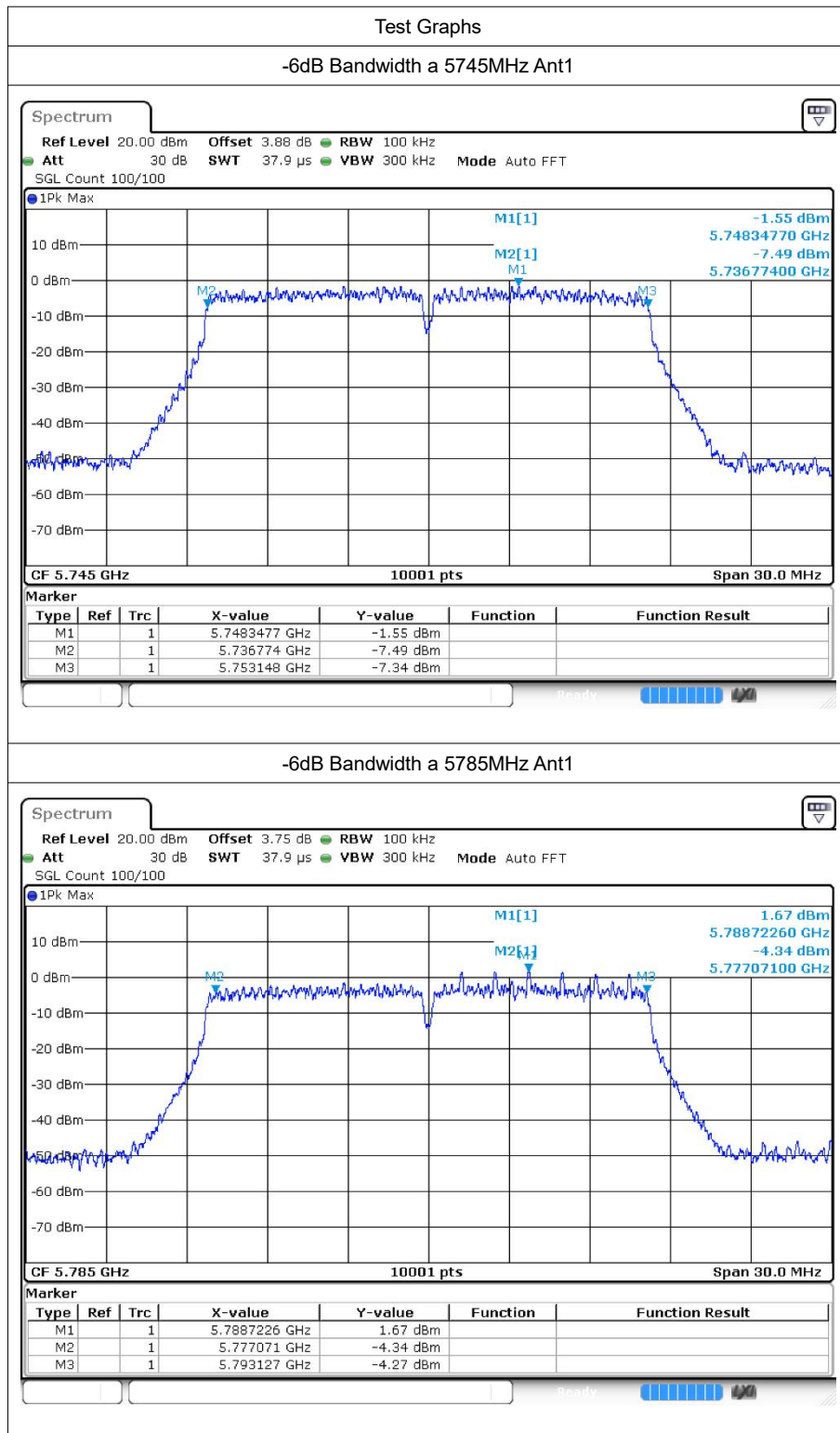
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	16.374	0.5	Pass
a	5785	Ant1	16.056	0.5	Pass
a	5825	Ant1	16.314	0.5	Pass
n20	5745	Ant1	17.622	0.5	Pass
n20	5785	Ant1	16.038	0.5	Pass
n20	5825	Ant1	17.619	0.5	Pass
n40	5755	Ant1	36.306	0.5	Pass
n40	5795	Ant1	36.306	0.5	Pass
ac20	5745	Ant1	17.607	0.5	Pass
ac20	5785	Ant1	17.616	0.5	Pass
ac20	5825	Ant1	17.601	0.5	Pass
ac40	5755	Ant1	36.384	0.5	Pass
ac40	5795	Ant1	36.336	0.5	Pass
ac80	5775	Ant1	76.332	0.5	Pass
ax20	5745	Ant1	18.084	0.5	Pass
ax20	5785	Ant1	19.029	0.5	Pass
ax20	5825	Ant1	19.02	0.5	Pass
ax40	5755	Ant1	38.07	0.5	Pass
ax40	5795	Ant1	36.744	0.5	Pass
ax80	5775	Ant1	78.06	0.5	Pass
a	5745	Ant2	16.524	0.5	Pass
a	5785	Ant2	16.452	0.5	Pass
a	5825	Ant2	16.458	0.5	Pass
n20	5745	Ant2	17.61	0.5	Pass
n20	5785	Ant2	17.637	0.5	Pass
n20	5825	Ant2	17.571	0.5	Pass
n40	5755	Ant2	36.342	0.5	Pass
n40	5795	Ant2	36.36	0.5	Pass
ac20	5745	Ant2	17.625	0.5	Pass
ac20	5785	Ant2	17.634	0.5	Pass
ac20	5825	Ant2	17.568	0.5	Pass
ac40	5755	Ant2	36.324	0.5	Pass
ac40	5795	Ant2	36.396	0.5	Pass
ac80	5775	Ant2	76.308	0.5	Pass
ax20	5745	Ant2	19.077	0.5	Pass
ax20	5785	Ant2	19.038	0.5	Pass
ax20	5825	Ant2	19.02	0.5	Pass

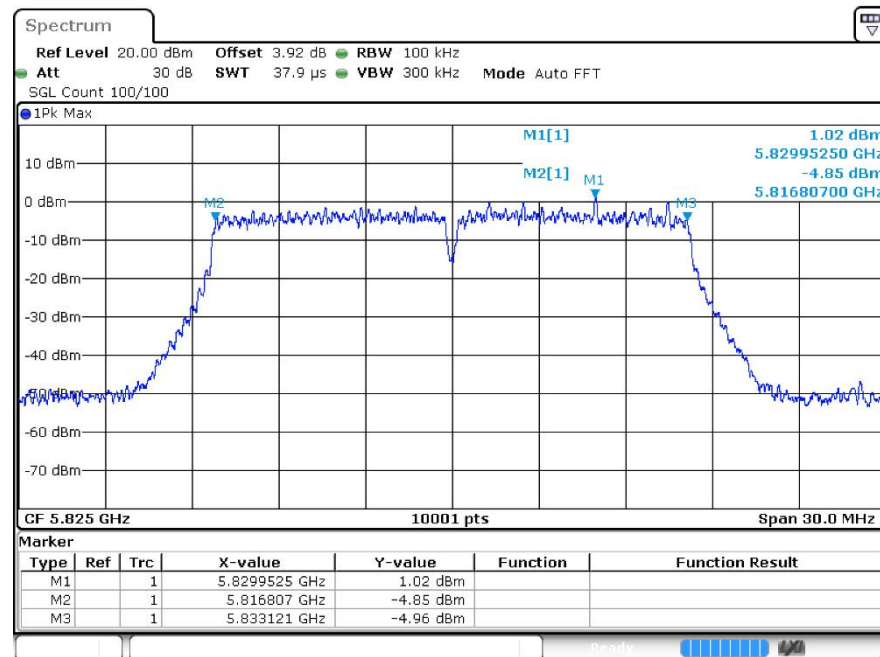


ax40	5755	Ant2	38.04	0.5	Pass
ax40	5795	Ant2	37.974	0.5	Pass
ax80	5775	Ant2	77.376	0.5	Pass

3.2 Test Graphs



-6dB Bandwidth a 5825MHz Ant1



-6dB Bandwidth n20 5745MHz Ant1

