



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Mini PC

Trade Mark: 2BQM5-N30

Test Model: N30

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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Duty Cycle

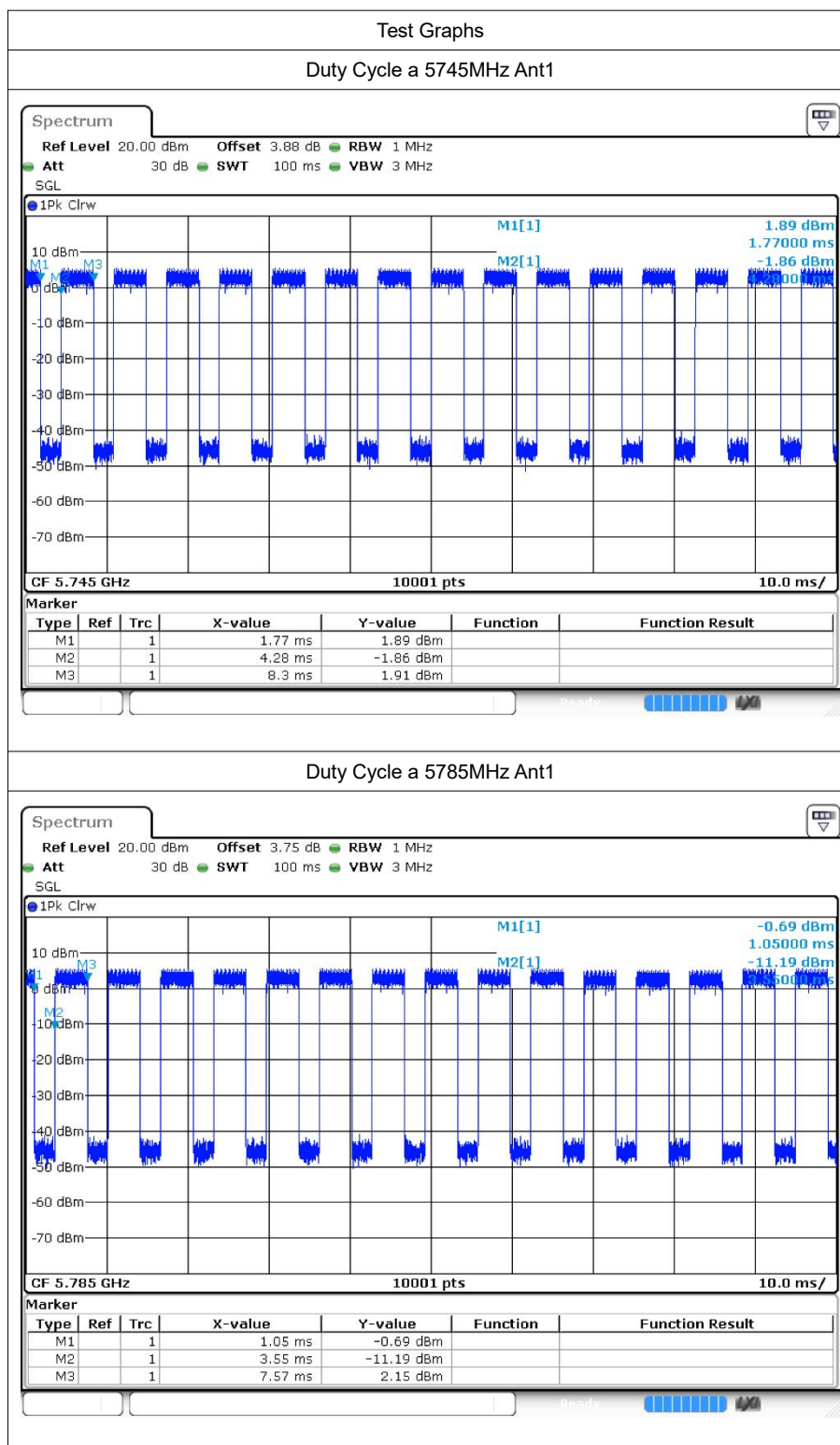
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	62.3	2.05	0.25
a	5785	Ant1	61.57	2.11	0.25
a	5825	Ant1	62.45	2.04	0.25
a	5745	Ant2	61.92	2.08	0.25
a	5785	Ant2	62.63	2.03	0.25
a	5825	Ant2	61.63	2.1	0.25
n20	5745	Ant1	60.13	2.21	0.27
n20	5785	Ant1	60.12	2.21	0.27
n20	5825	Ant1	59.87	2.23	0.27
n20	5745	Ant2	59.87	2.23	0.27
n20	5785	Ant2	59.92	2.22	0.27
n20	5825	Ant2	60.13	2.21	0.27
n40	5755	Ant1	58.7	2.31	0.28
n40	5795	Ant1	58.74	2.31	0.28
n40	5755	Ant2	57.7	2.39	0.28
n40	5795	Ant2	58.65	2.32	0.28
ac20	5745	Ant1	60.14	2.21	0.27
ac20	5785	Ant1	60.11	2.21	0.27
ac20	5825	Ant1	60.14	2.21	0.27
ac20	5745	Ant2	59.93	2.22	0.27
ac20	5785	Ant2	60.13	2.21	0.27
ac20	5825	Ant2	59.92	2.22	0.27
ac40	5755	Ant1	60.03	2.22	0.28
ac40	5795	Ant1	60	2.22	0.28
ac40	5755	Ant2	58.08	2.36	0.28
ac40	5795	Ant2	58.6	2.32	0.28
ac80	5775	Ant1	56.84	2.45	0.3
ac80	5775	Ant2	57.41	2.41	0.3
ax20	5745	Ant1	57.63	2.39	0.3
ax20	5785	Ant1	57.42	2.41	0.3
ax20	5825	Ant1	57.22	2.42	0.3
ax20	5745	Ant2	57.21	2.42	0.3
ax20	5785	Ant2	57.63	2.39	0.3
ax20	5825	Ant2	57.44	2.41	0.3
ax40	5755	Ant1	57.5	2.4	0.3
ax40	5795	Ant1	57.03	2.44	0.3
ax40	5755	Ant2	57.15	2.43	0.3

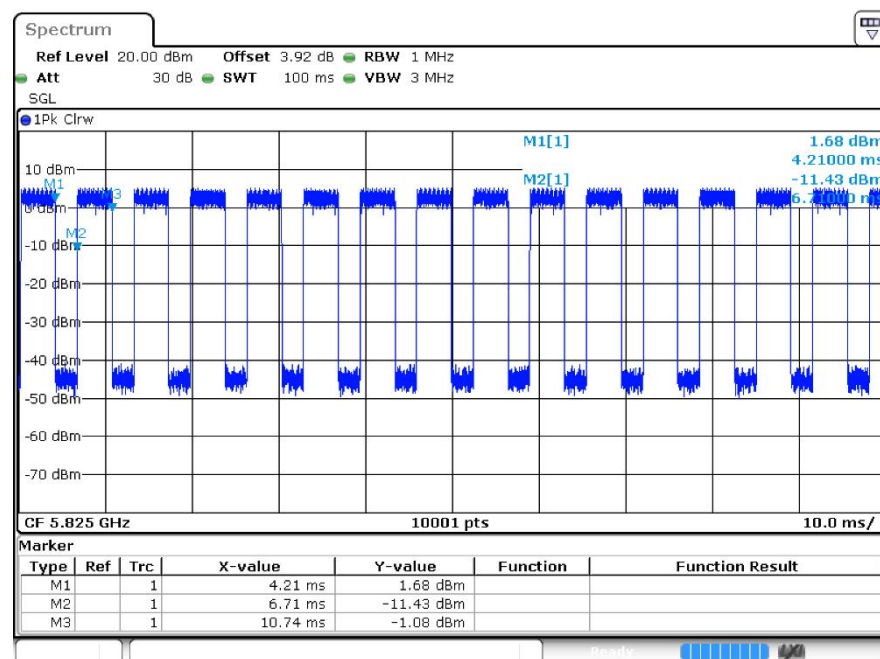


ax40	5795	Ant2	57.62	2.39	0.3
ax80	5775	Ant1	55.19	2.58	0.31
ax80	5775	Ant2	57.13	2.43	0.31

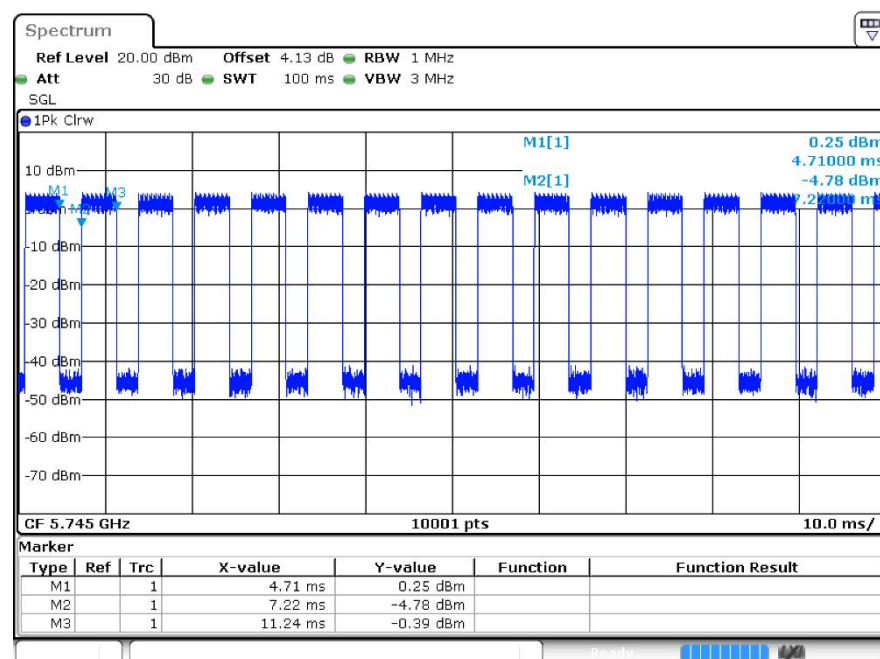
1.2 Test Graphs



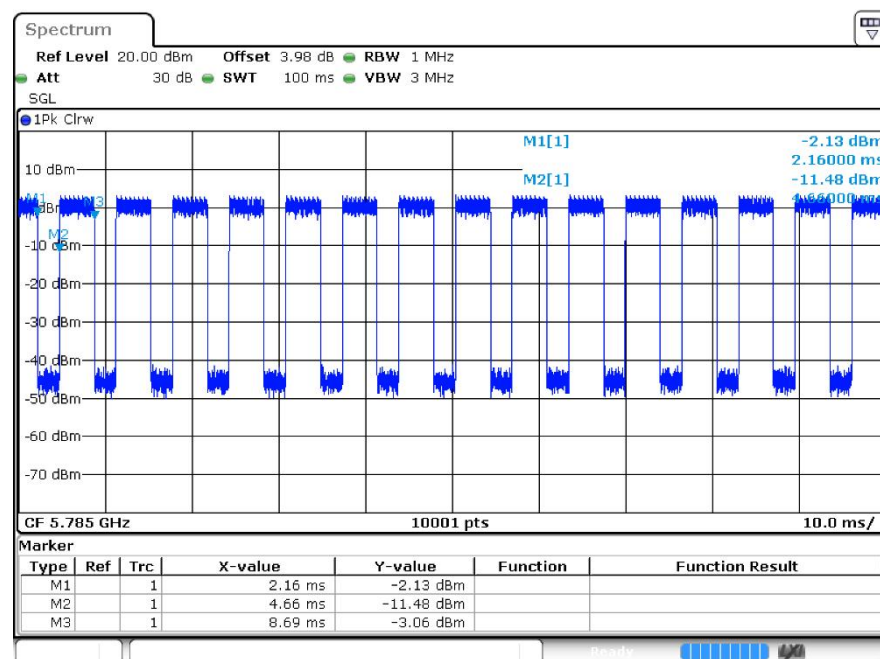
Duty Cycle a 5825MHz Ant1



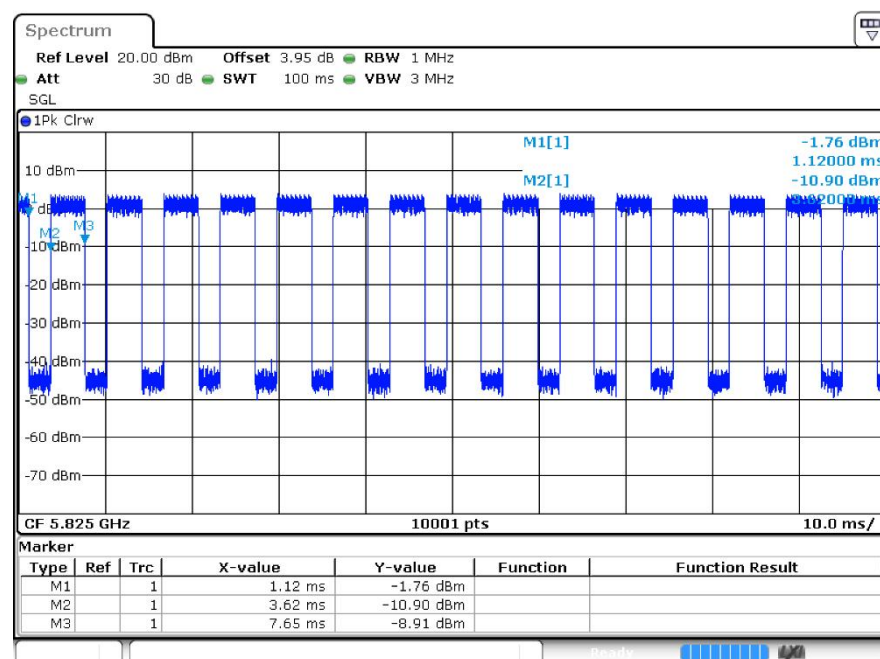
Duty Cycle a 5745MHz Ant2



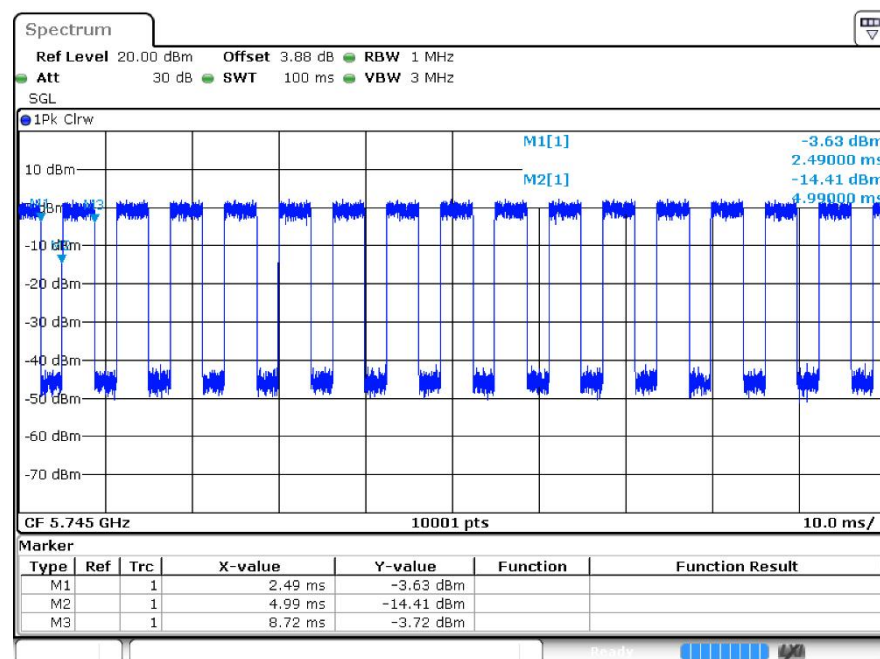
Duty Cycle a 5785MHz Ant2



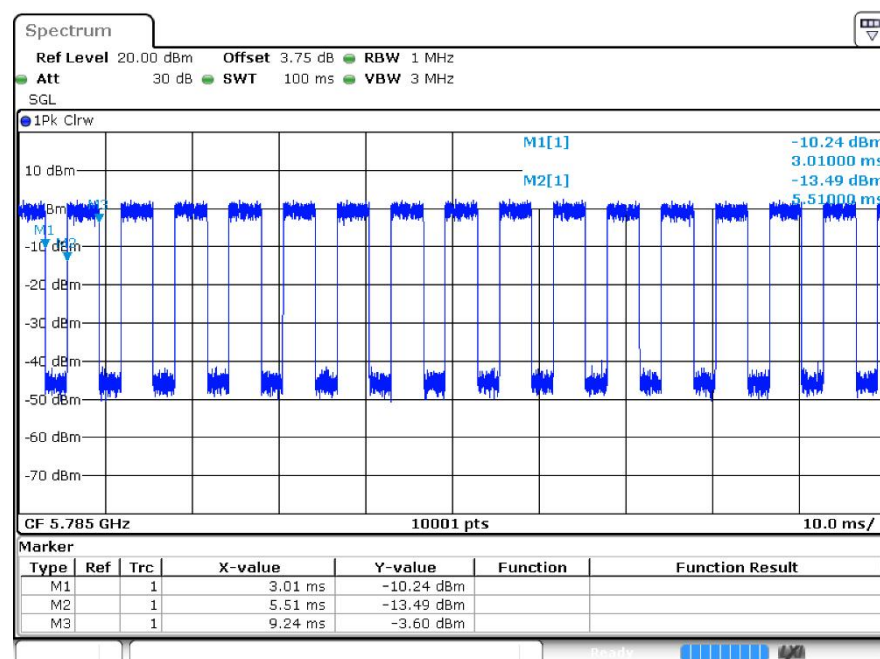
Duty Cycle a 5825MHz Ant2



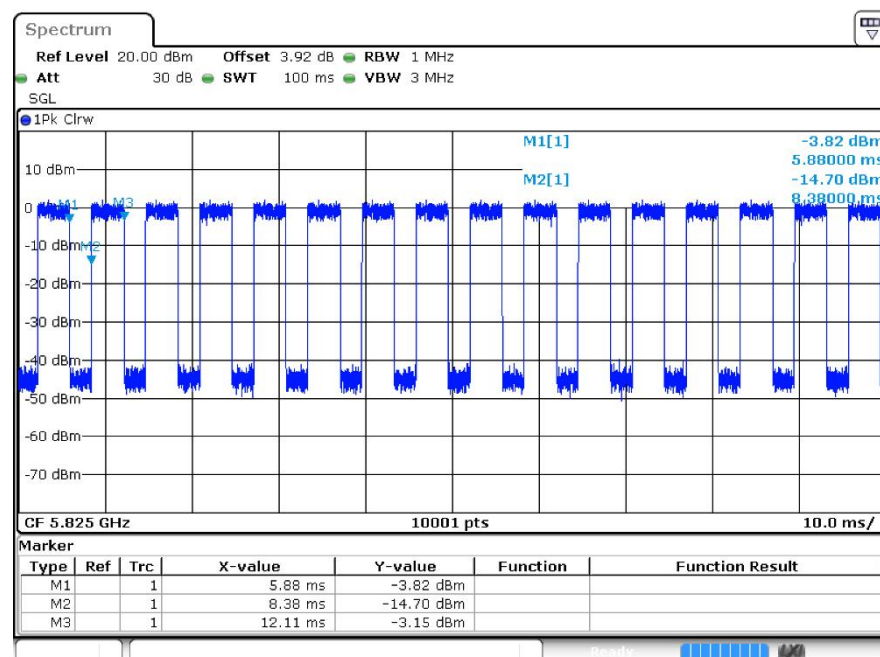
Duty Cycle n20 5745MHz Ant1



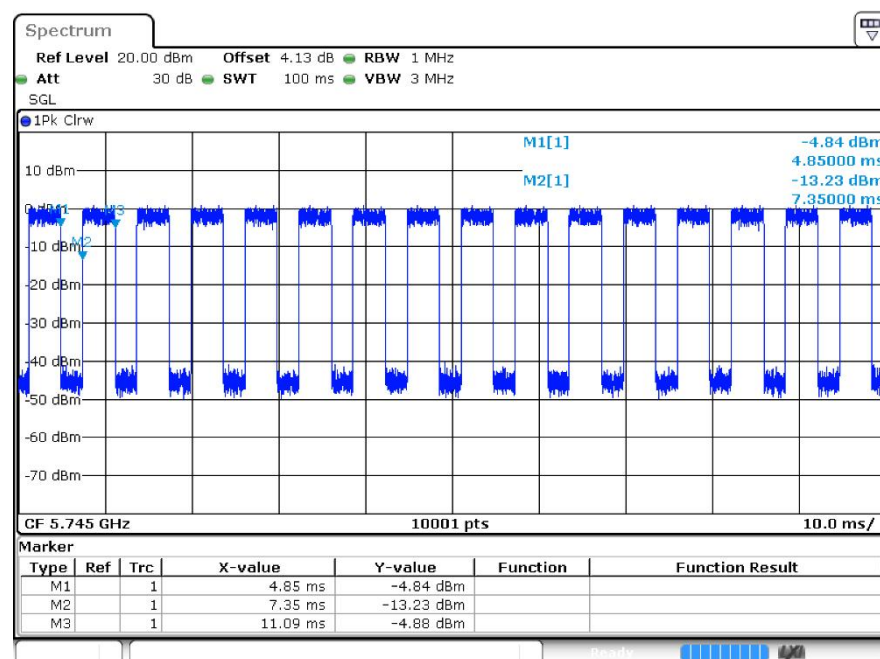
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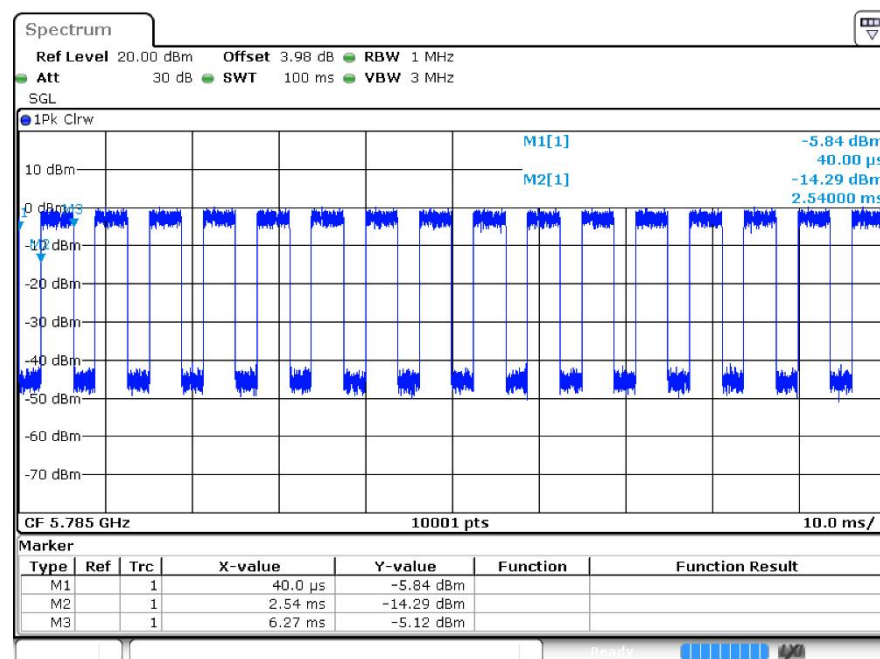
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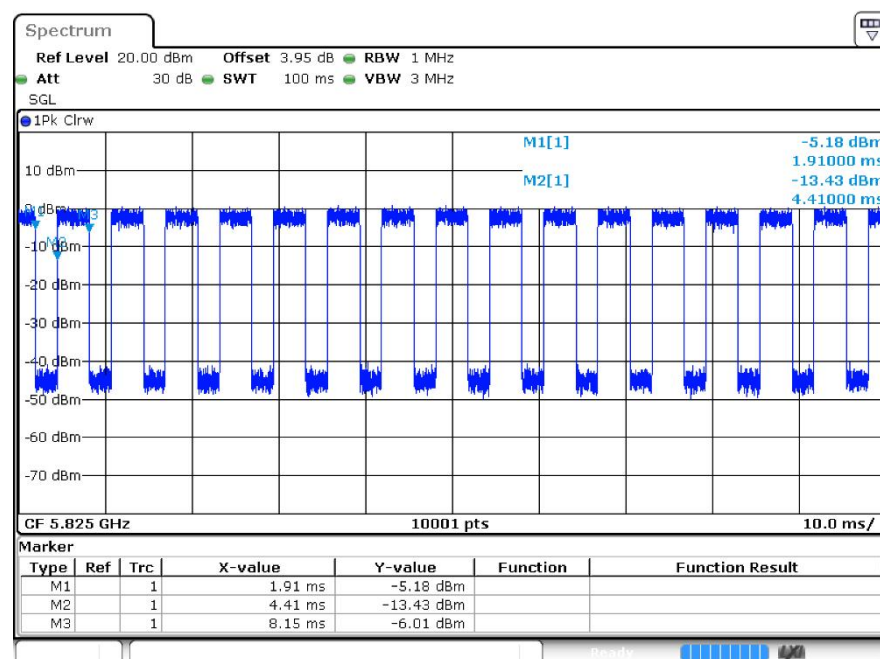
Duty Cycle n20 5745MHz Ant2



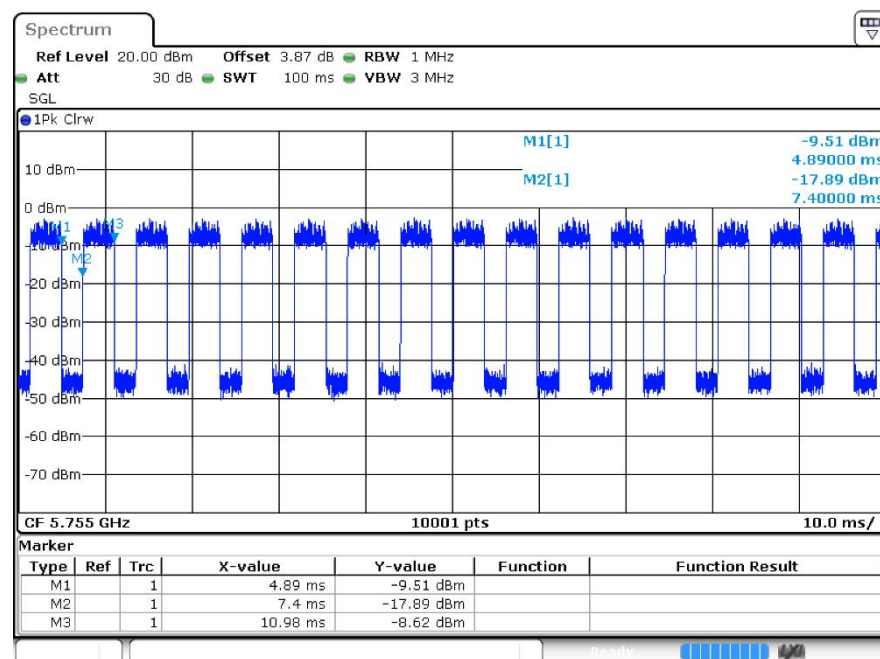
Duty Cycle n20 5785MHz Ant2



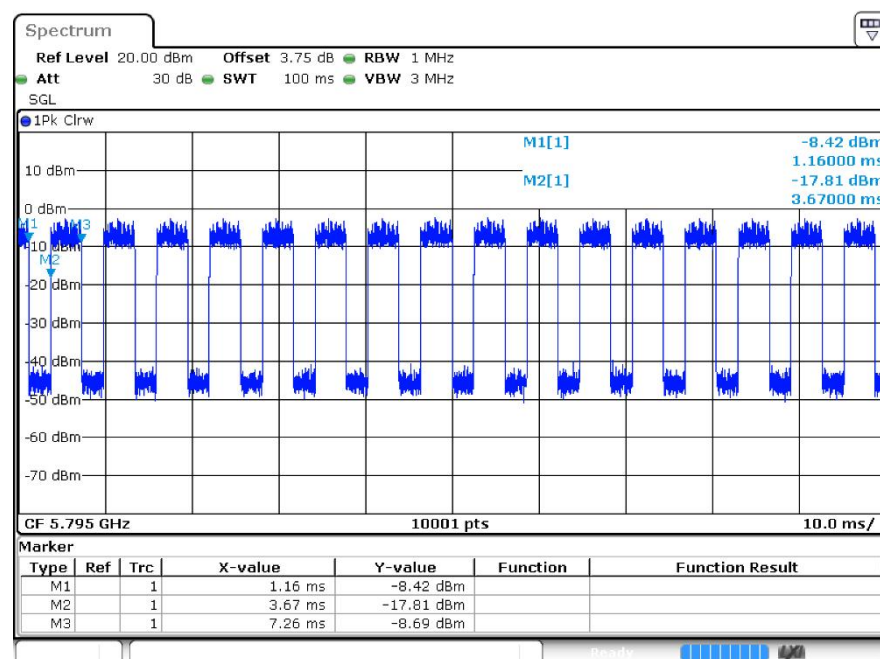
Duty Cycle n20 5825MHz Ant2



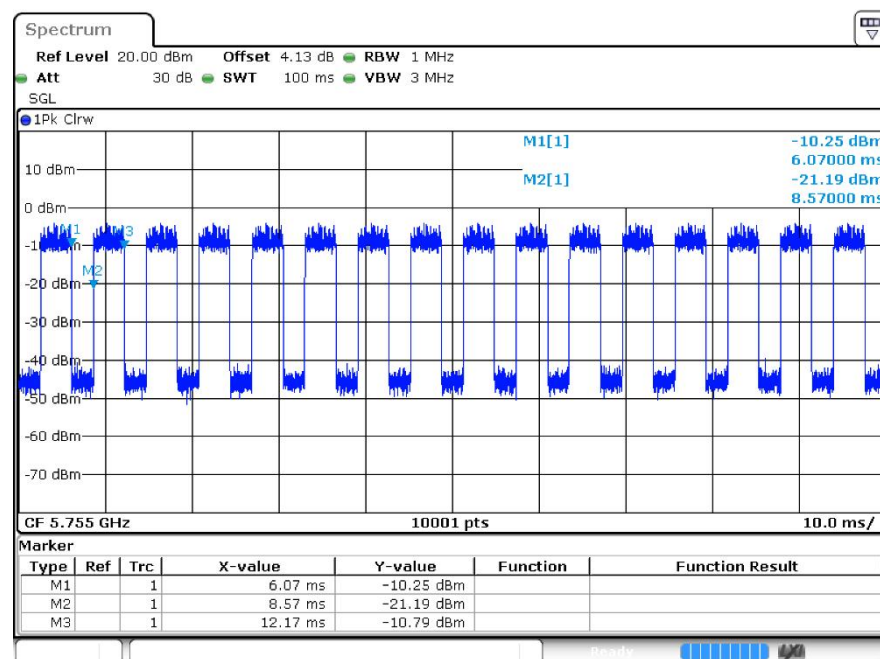
Duty Cycle n40 5755MHz Ant1



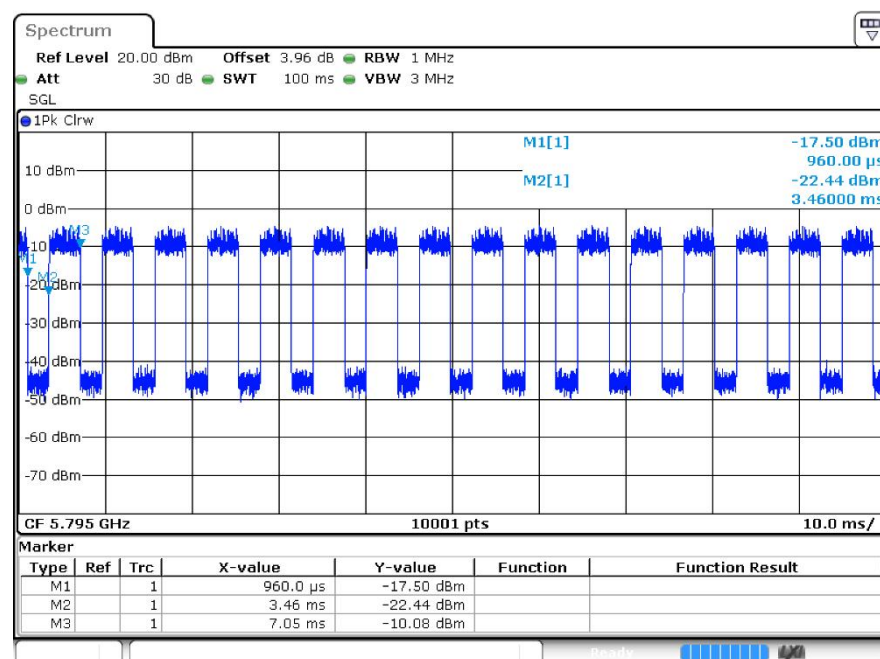
Duty Cycle n40 5795MHz Ant1



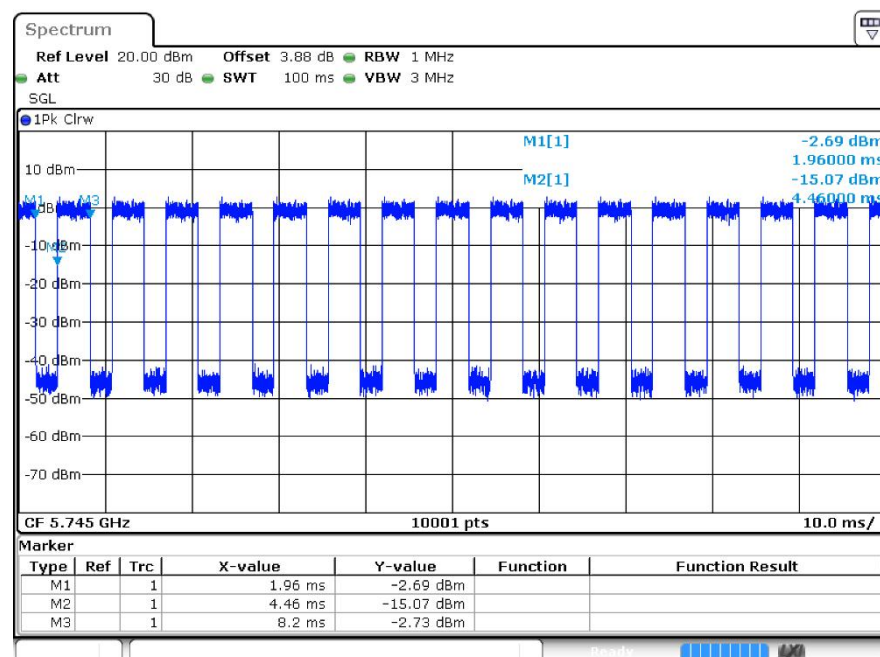
Duty Cycle n40 5755MHz Ant2



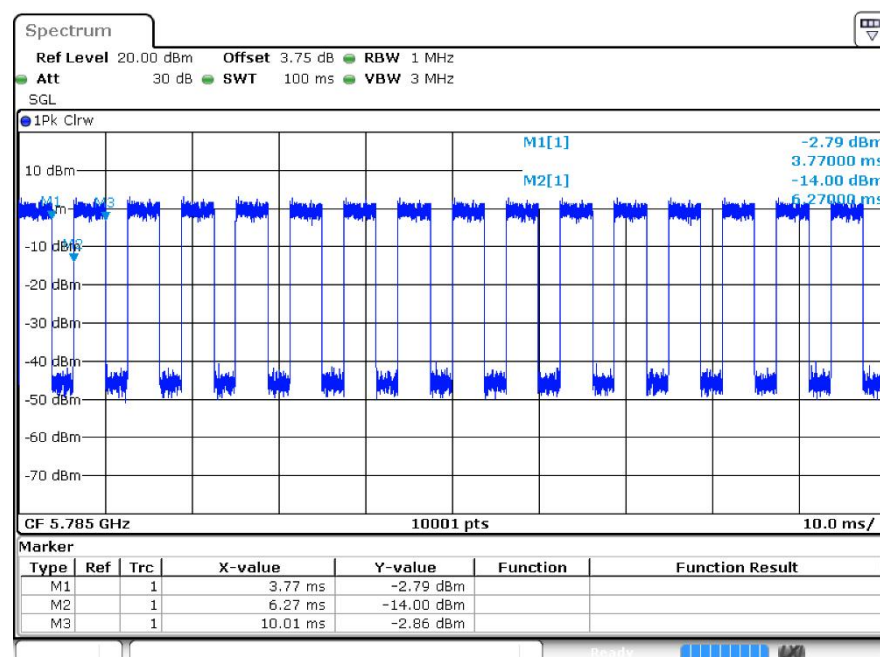
Duty Cycle n40 5795MHz Ant2



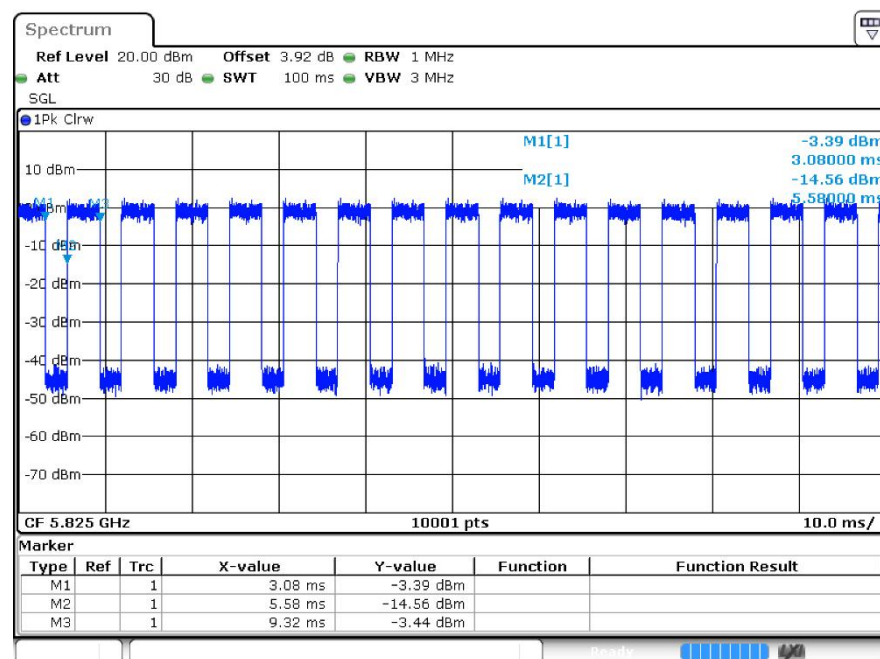
Duty Cycle ac20 5745MHz Ant1



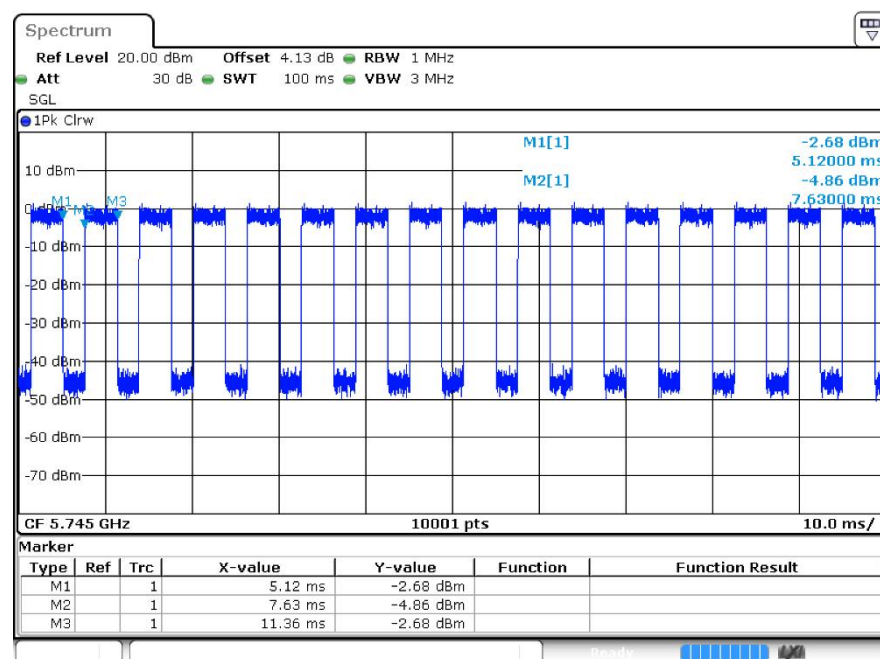
Duty Cycle ac20 5785MHz Ant1



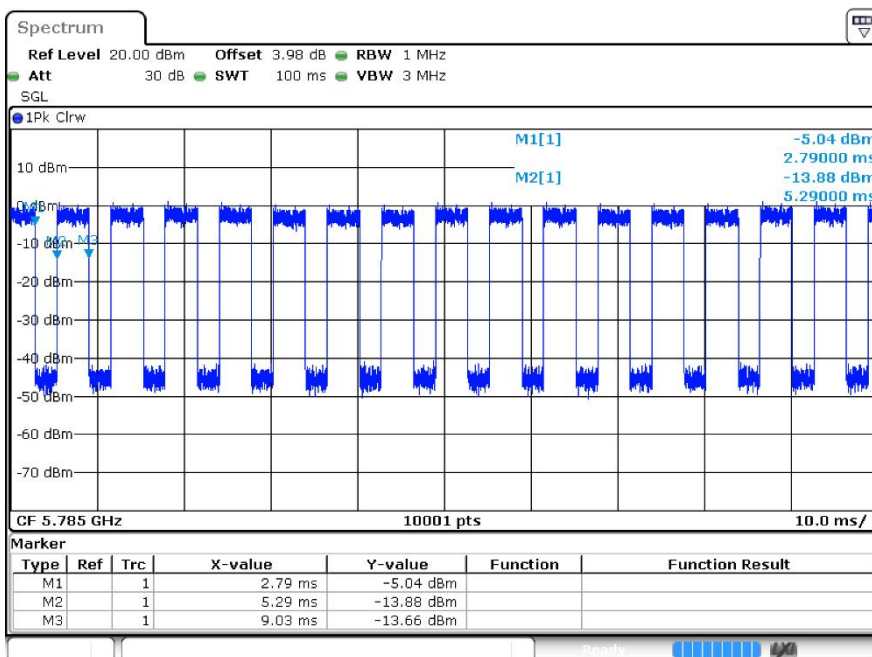
Duty Cycle ac20 5825MHz Ant1



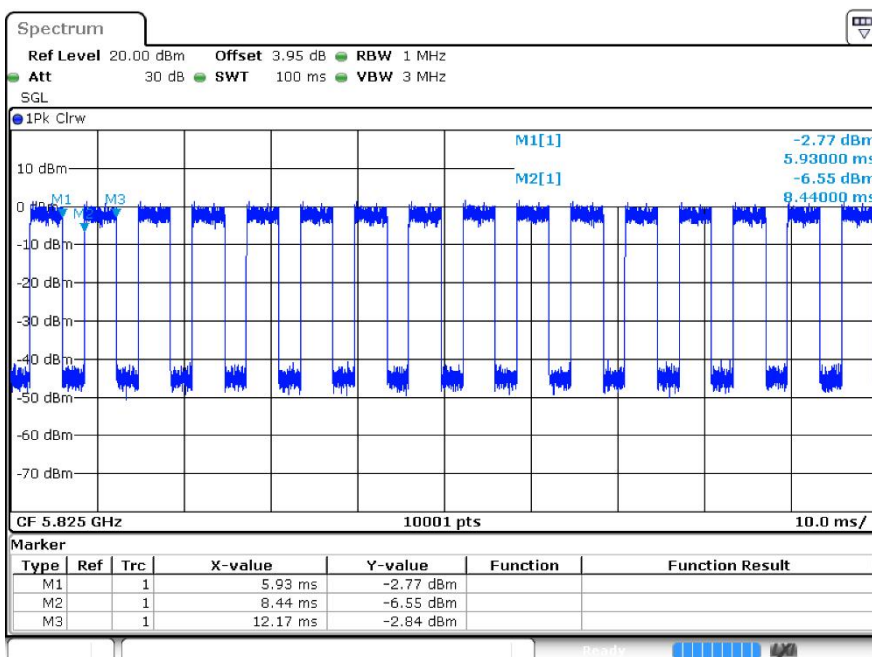
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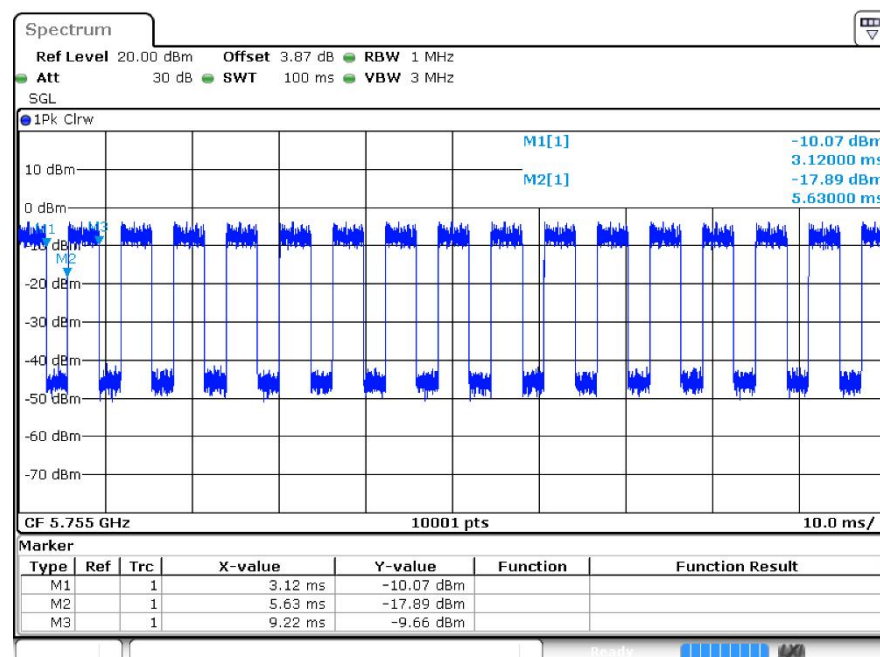
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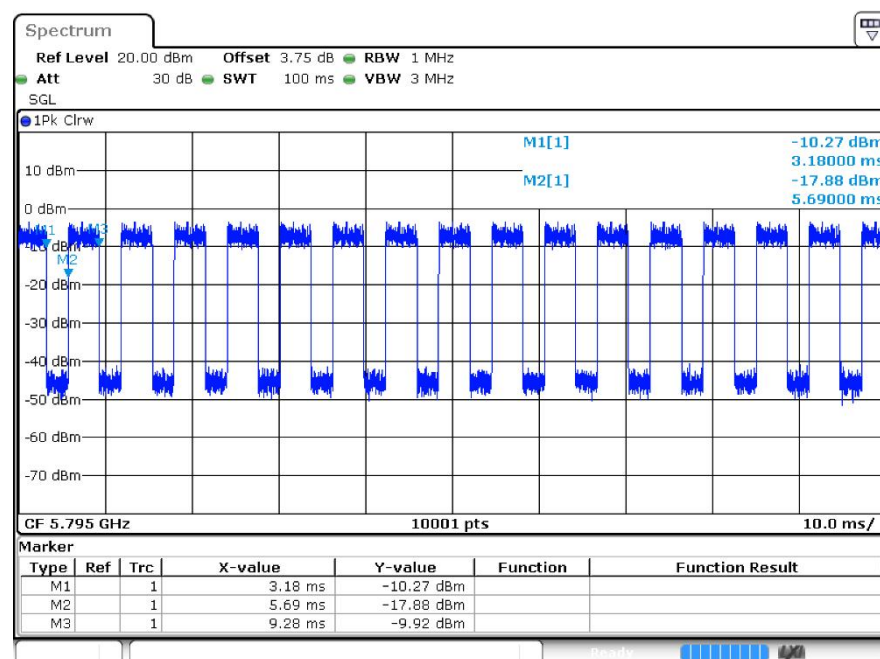
Duty Cycle ac20 5825MHz Ant2



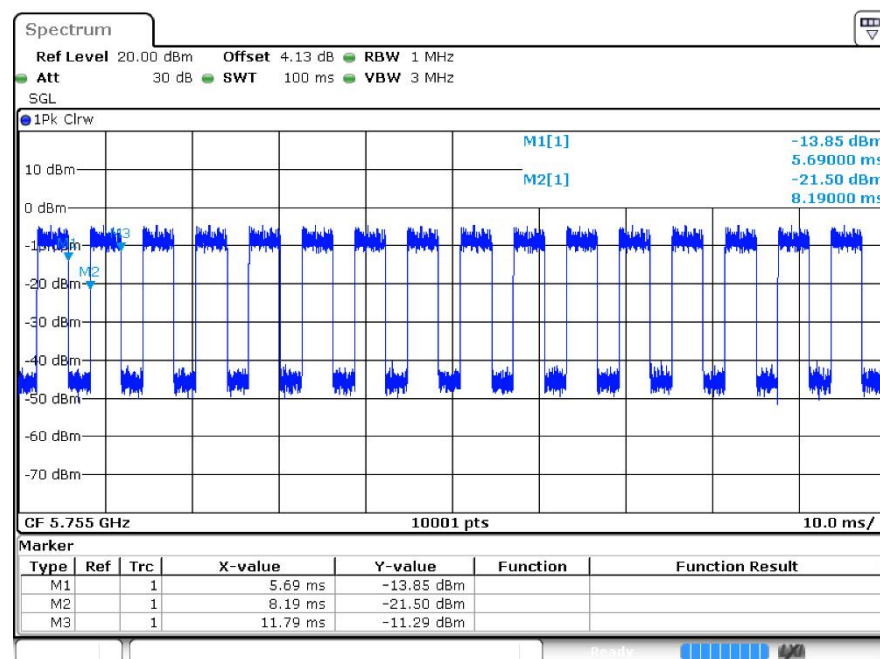
Duty Cycle ac40 5755MHz Ant1



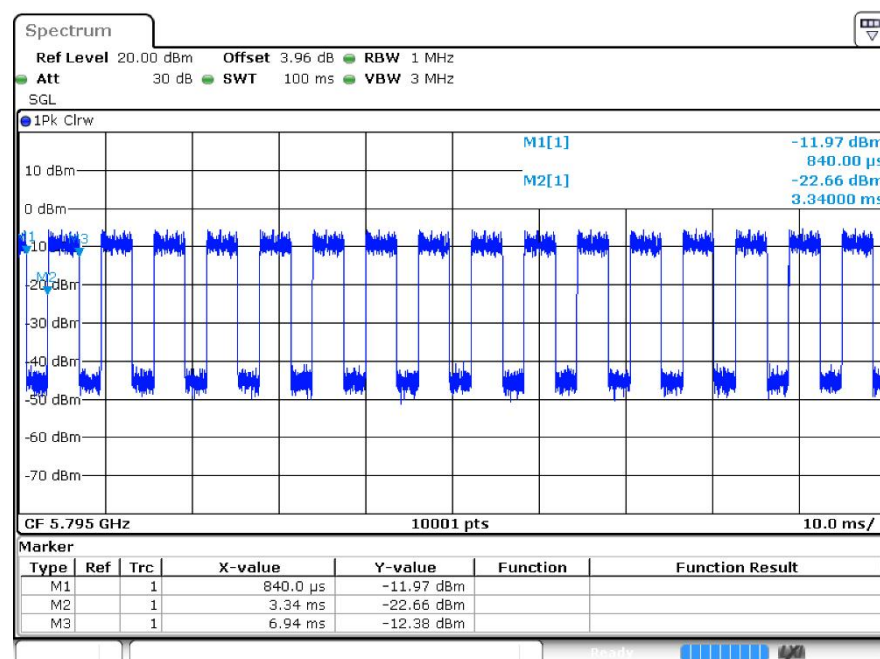
Duty Cycle ac40 5795MHz Ant1



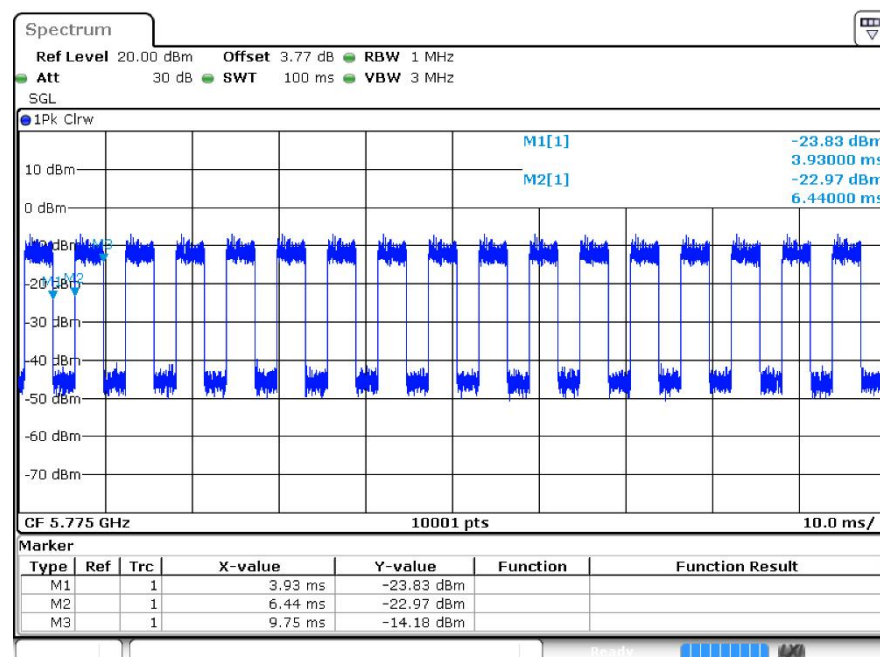
Duty Cycle ac40 5755MHz Ant2



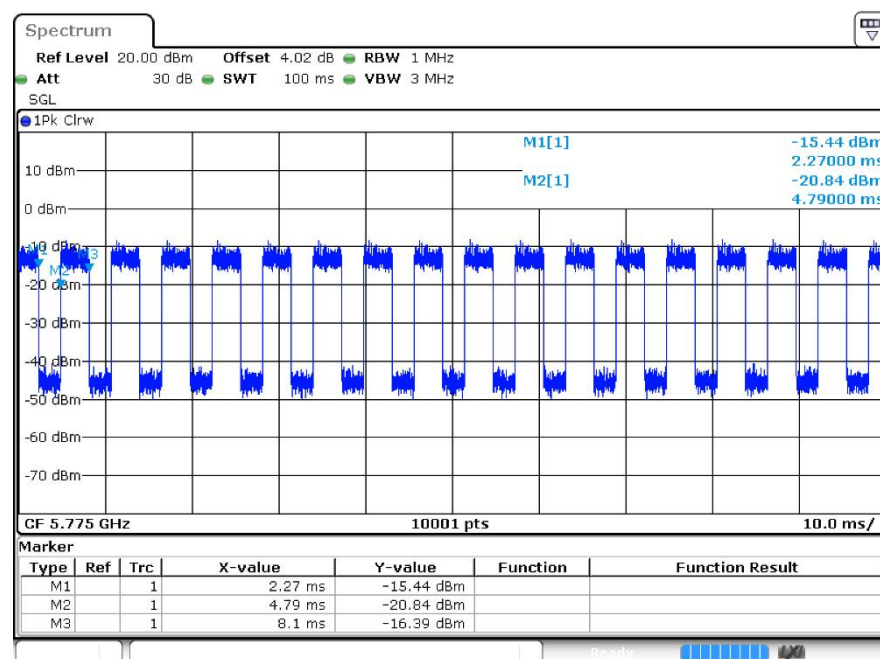
Duty Cycle ac40 5795MHz Ant2



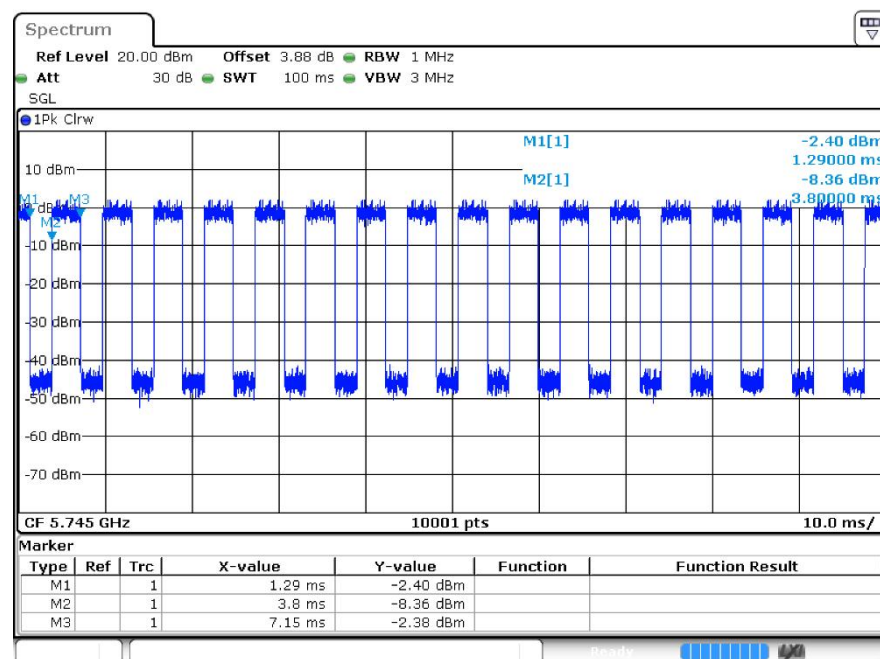
Duty Cycle ac80 5775MHz Ant1



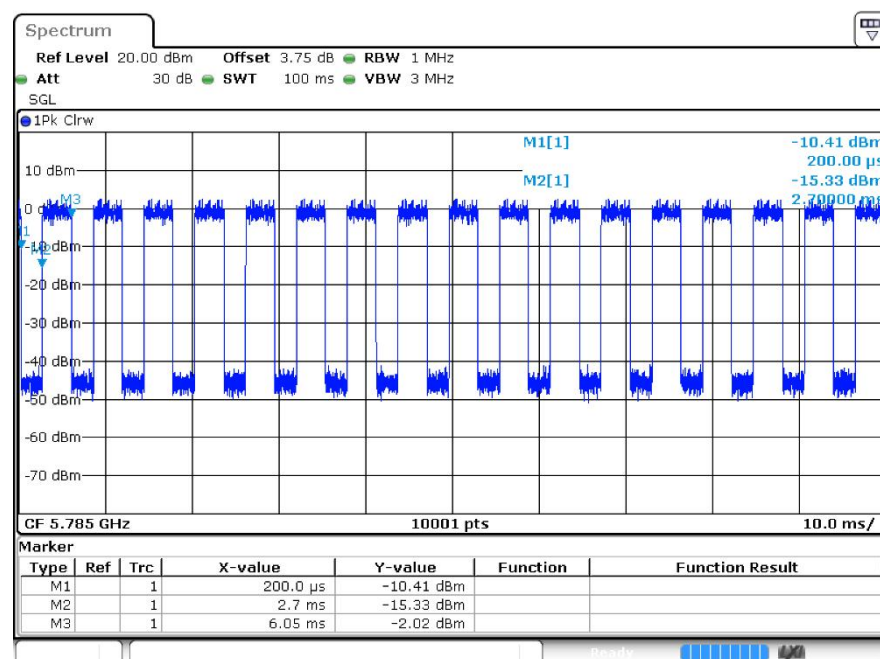
Duty Cycle ac80 5775MHz Ant2



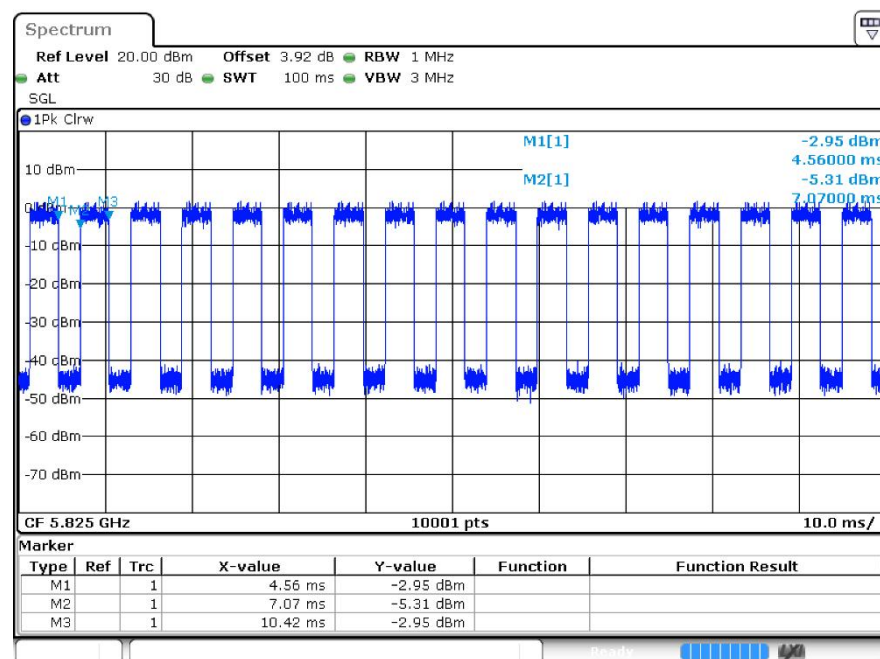
Duty Cycle ax20 5745MHz Ant1



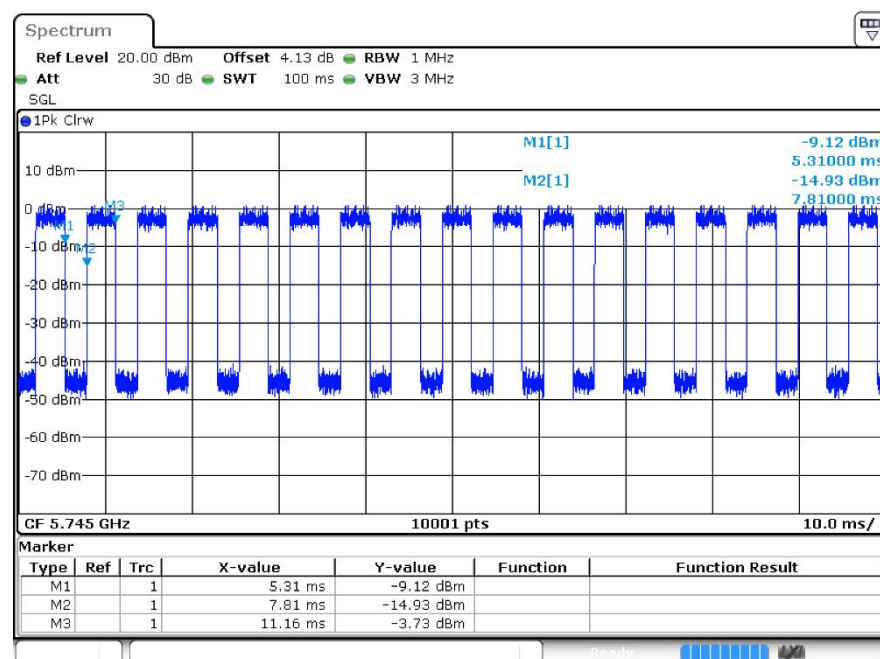
Duty Cycle ax20 5785MHz Ant1



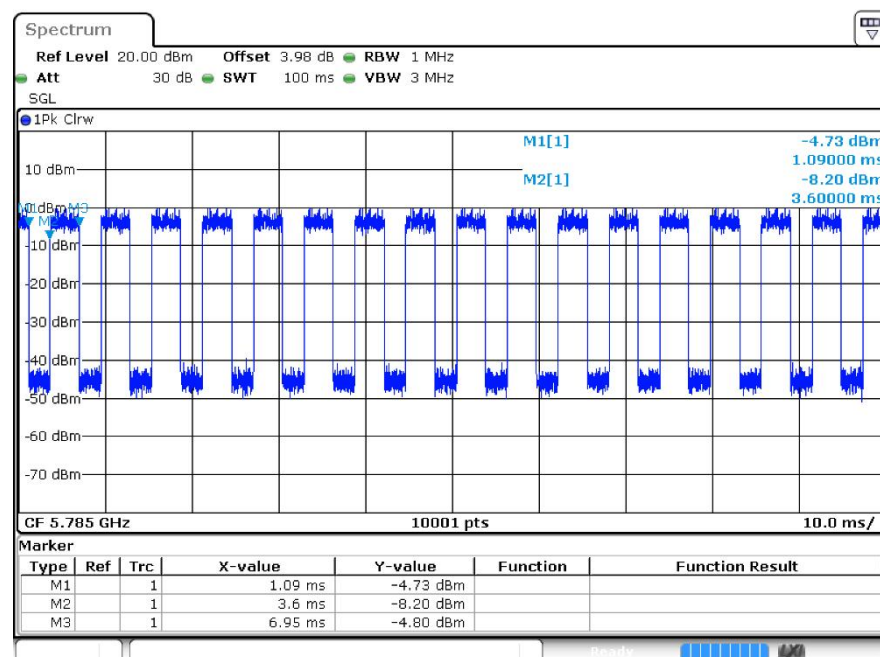
Duty Cycle ax20 5825MHz Ant1



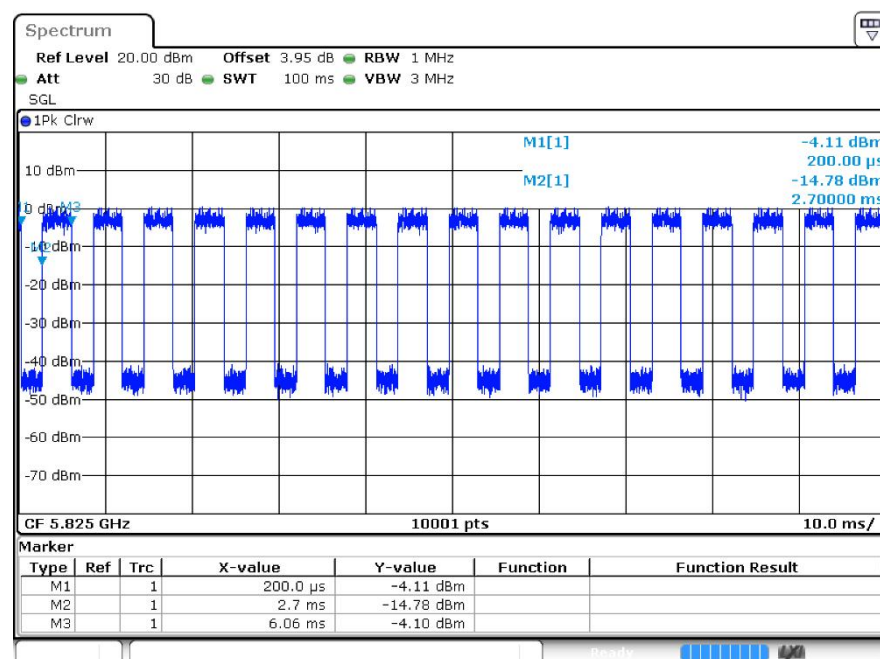
Duty Cycle ax20 5745MHz Ant2



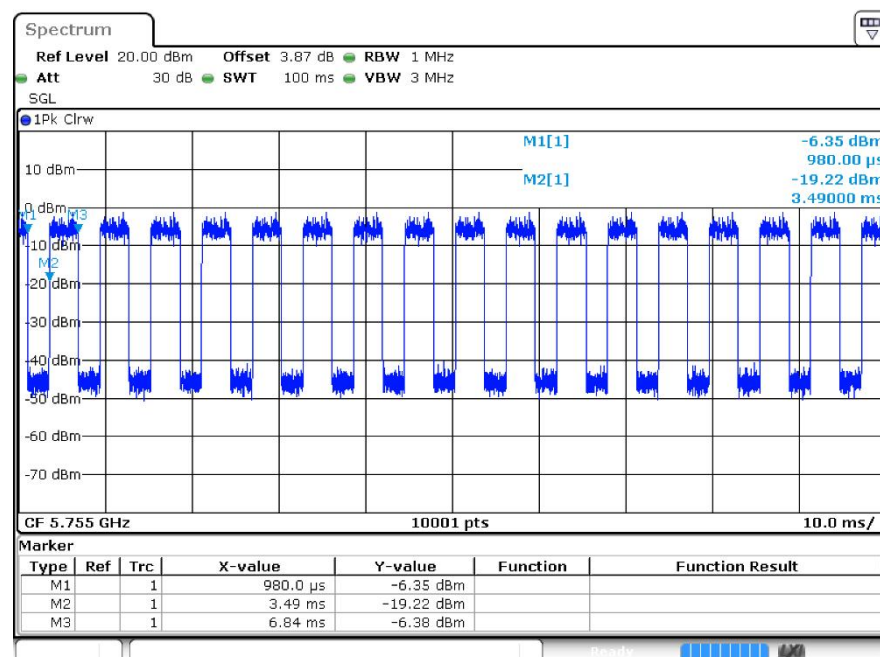
Duty Cycle ax20 5785MHz Ant2



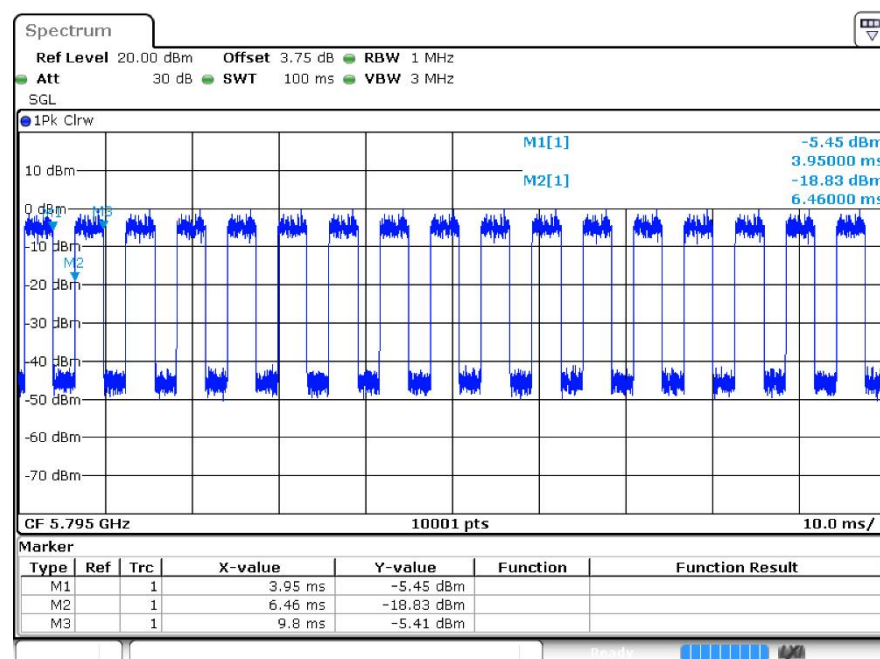
Duty Cycle ax20 5825MHz Ant2



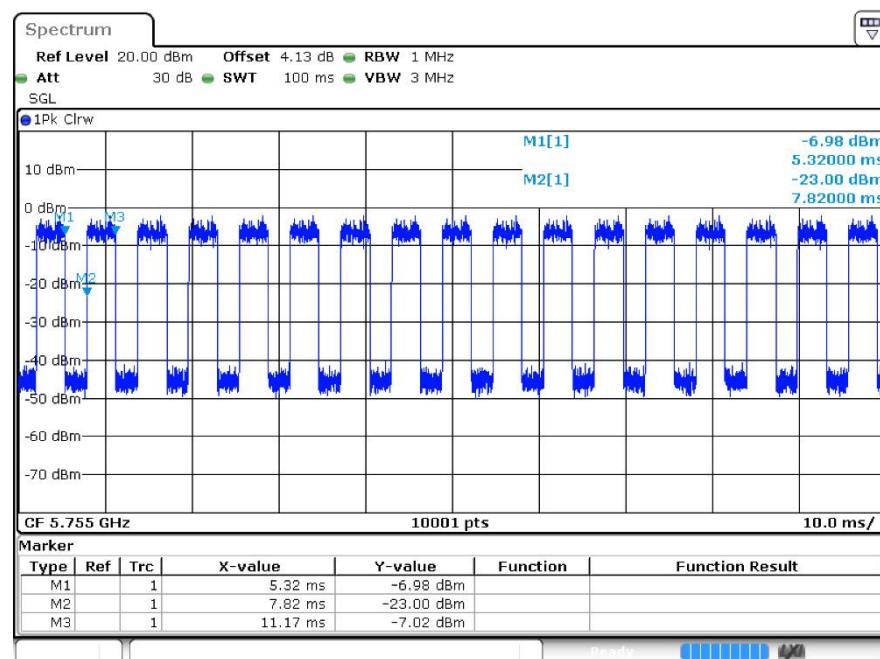
Duty Cycle ax40 5755MHz Ant1



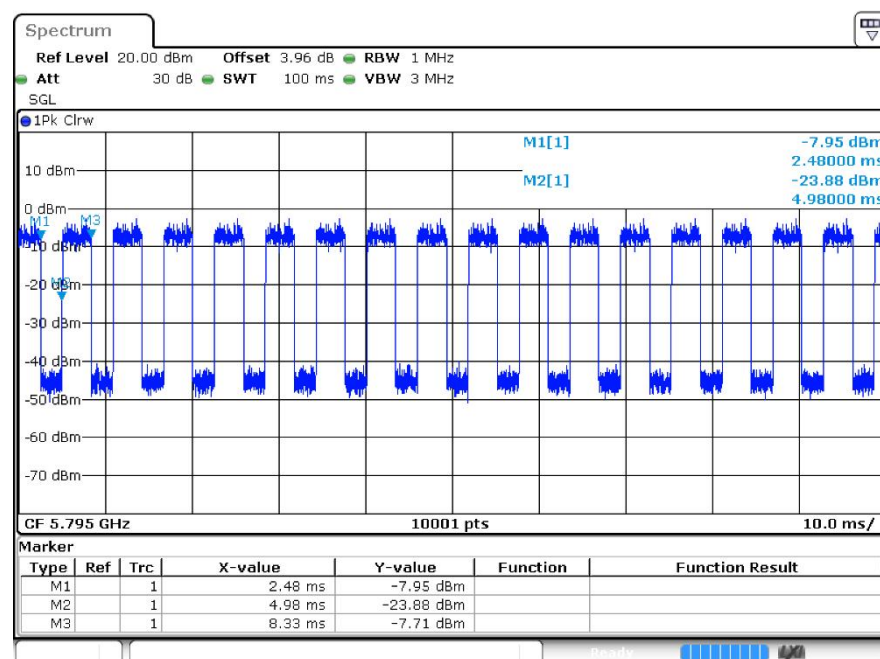
Duty Cycle ax40 5795MHz Ant1



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	13.19	30	Pass
a	5785	Ant1	13.46	30	Pass
a	5825	Ant1	13.19	30	Pass
a	5745	Ant2	11.63	30	Pass
a	5785	Ant2	10.7	30	Pass
a	5825	Ant2	11.36	30	Pass
n20	5745	Ant1	9.94	30	Pass
n20	5745	Ant2	8.68	30	Pass
n20	5745	Sum	12.5	30	Pass
n20	5785	Ant1	10.01	30	Pass
n20	5785	Ant2	8.04	30	Pass
n20	5785	Sum	12.17	30	Pass
n20	5825	Ant1	9.92	30	Pass
n20	5825	Ant2	8.44	30	Pass
n20	5825	Sum	12.17	30	Pass
n40	5755	Ant1	10.15	30	Pass
n40	5755	Ant2	8.45	30	Pass
n40	5755	Sum	12.41	30	Pass
n40	5795	Ant1	9.99	30	Pass
n40	5795	Ant2	7.99	30	Pass
n40	5795	Sum	12.15	30	Pass
ac20	5745	Ant1	9.98	30	Pass
ac20	5745	Ant2	8.79	30	Pass
ac20	5745	Sum	12.5	30	Pass
ac20	5785	Ant1	10.19	30	Pass
ac20	5785	Ant2	7.97	30	Pass
ac20	5785	Sum	12.08	30	Pass
ac20	5825	Ant1	9.92	30	Pass
ac20	5825	Ant2	8.48	30	Pass
ac20	5825	Sum	12.21	30	Pass
ac40	5755	Ant1	10.09	30	Pass
ac40	5755	Ant2	8.44	30	Pass
ac40	5755	Sum	12.37	30	Pass
ac40	5795	Ant1	10.06	30	Pass
ac40	5795	Ant2	8.09	30	Pass
ac40	5795	Sum	12.14	30	Pass



ac80	5775	Ant1	9.99	30	Pass
ac80	5775	Ant2	8.26	30	Pass
ac80	5775	Sum	12.15	30	Pass
ax20	5745	Ant1	10.17	30	Pass
ax20	5745	Ant2	8.96	30	Pass
ax20	5745	Sum	12.67	30	Pass
ax20	5785	Ant1	10.46	30	Pass
ax20	5785	Ant2	7.77	30	Pass
ax20	5785	Sum	12.36	30	Pass
ax20	5825	Ant1	9.64	30	Pass
ax20	5825	Ant2	8.56	30	Pass
ax20	5825	Sum	12.55	30	Pass
ax40	5755	Ant1	9.78	30	Pass
ax40	5755	Ant2	8.57	30	Pass
ax40	5755	Sum	12.13	30	Pass
ax40	5795	Ant1	10.18	30	Pass
ax40	5795	Ant2	7.95	30	Pass
ax40	5795	Sum	12.34	30	Pass
ax80	5775	Ant1	9.98	30	Pass
ax80	5775	Ant2	7.75	30	Pass
ax80	5775	Sum	12.13	30	Pass

Note:

The duty factor has been compensated into the result.

3 -6dB Bandwidth

3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	16.383	0.5	Pass
a	5785	Ant1	16.386	0.5	Pass
a	5825	Ant1	16.401	0.5	Pass
n20	5745	Ant1	15.957	0.5	Pass
n20	5785	Ant1	16.299	0.5	Pass
n20	5825	Ant1	17.61	0.5	Pass
n40	5755	Ant1	36.378	0.5	Pass
n40	5795	Ant1	36.354	0.5	Pass
ac20	5745	Ant1	16.512	0.5	Pass
ac20	5785	Ant1	17.622	0.5	Pass
ac20	5825	Ant1	17.646	0.5	Pass
ac40	5755	Ant1	36.33	0.5	Pass
ac40	5795	Ant1	32.532	0.5	Pass
ac80	5775	Ant1	76.368	0.5	Pass
ax20	5745	Ant1	18.936	0.5	Pass
ax20	5785	Ant1	19.008	0.5	Pass
ax20	5825	Ant1	18.873	0.5	Pass
ax40	5755	Ant1	38.148	0.5	Pass
ax40	5795	Ant1	37.038	0.5	Pass
ax80	5775	Ant1	76.464	0.5	Pass
a	5745	Ant2	16.443	0.5	Pass
a	5785	Ant2	16.284	0.5	Pass
a	5825	Ant2	16.365	0.5	Pass
n20	5745	Ant2	17.616	0.5	Pass
n20	5785	Ant2	17.637	0.5	Pass
n20	5825	Ant2	17.595	0.5	Pass
n40	5755	Ant2	36.336	0.5	Pass
n40	5795	Ant2	34.698	0.5	Pass
ac20	5745	Ant2	17.613	0.5	Pass
ac20	5785	Ant2	17.619	0.5	Pass
ac20	5825	Ant2	17.643	0.5	Pass
ac40	5755	Ant2	34.416	0.5	Pass
ac40	5795	Ant2	36.378	0.5	Pass
ac80	5775	Ant2	76.14	0.5	Pass
ax20	5745	Ant2	18.906	0.5	Pass
ax20	5785	Ant2	18.981	0.5	Pass
ax20	5825	Ant2	18.891	0.5	Pass



ax40	5755	Ant2	37.956	0.5	Pass
ax40	5795	Ant2	38.022	0.5	Pass
ax80	5775	Ant2	77.532	0.5	Pass

3.2 Test Graphs

