Appendix D-1

RF Test Data for B1-B3WIFI(Conducted Measurement)

Product Name: RF Wireless module

Trade Mark: INNOCN

Test Model: AW.S905D3.03

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

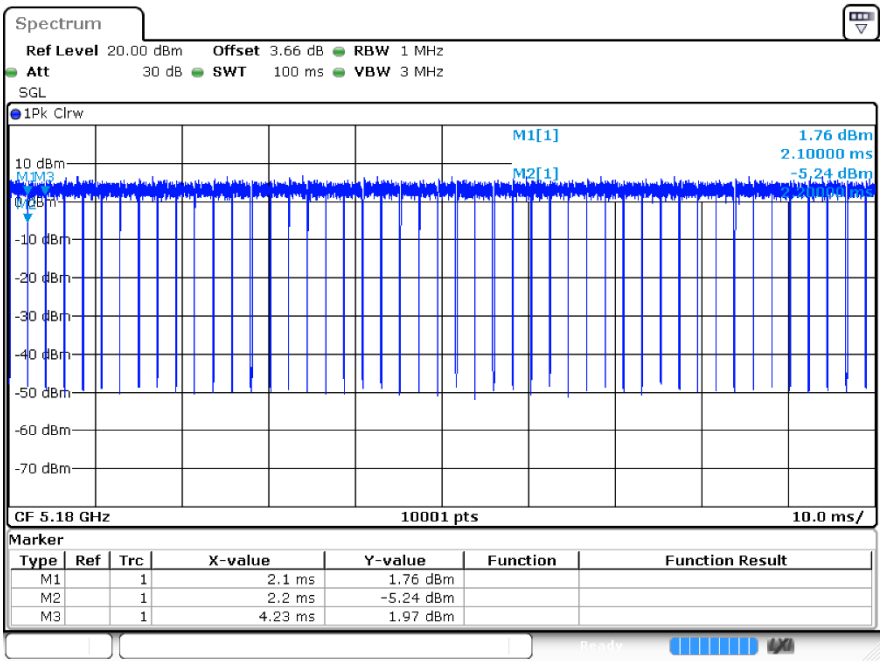
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	94.99	0.22	0.49
a	5200	Ant1	94.56	0.24	0.49
a	5240	Ant1	95.01	0.22	0.49
a	5260	Ant1	92.53	0.34	0.49
a	5280	Ant1	91.27	0.4	0.49
a	5320	Ant1	94.95	0.23	0.49
a	5500	Ant1	91.35	0.33	0.49
a	5600	Ant1	92.58	0.39	0.49
a	5700	Ant1	94.66	0.24	0.49
n20	5180	Ant1	92.2	0.35	0.53
n20	5200	Ant1	93.44	0.29	0.53
n20	5240	Ant1	94.96	0.22	0.53
n20	5260	Ant1	95.3	0.21	0.53
n20	5280	Ant1	93.05	0.31	0.53
n20	5320	Ant1	94.09	0.26	0.53
n20	5500	Ant1	94.69	0.24	0.53
n20	5600	Ant1	94.38	0.25	0.53
n20	5700	Ant1	95.06	0.22	0.53
n40	5190	Ant1	89.54	0.48	1.06
n40	5230	Ant1	89.57	0.48	1.08
n40	5270	Ant1	89.35	0.49	1.06
n40	5310	Ant1	85.82	0.66	1.06
n40	5510	Ant1	89.38	0.49	1.08
n40	5670	Ant1	88.7	0.52	1.08
ac20	5180	Ant1	94.44	0.25	0.53
ac20	5200	Ant1	94.58	0.24	0.53
ac20	5240	Ant1	95.27	0.21	0.53
ac20	5260	Ant1	93.67	0.28	0.53
ac20	5280	Ant1	94.95	0.23	0.53
ac20	5320	Ant1	92.35	0.35	0.53
ac20	5500	Ant1	94.69	0.24	0.52
ac20	5600	Ant1	94.39	0.25	0.53
ac20	5700	Ant1	92.03	0.36	0.53
ac40	5190	Ant1	85.7	0.67	1.06
ac40	5230	Ant1	89.55	0.48	1.06
ac40	5310	Ant1	89.89	0.46	1.08
ac40	5270	Ant1	89.29	0.49	1.08

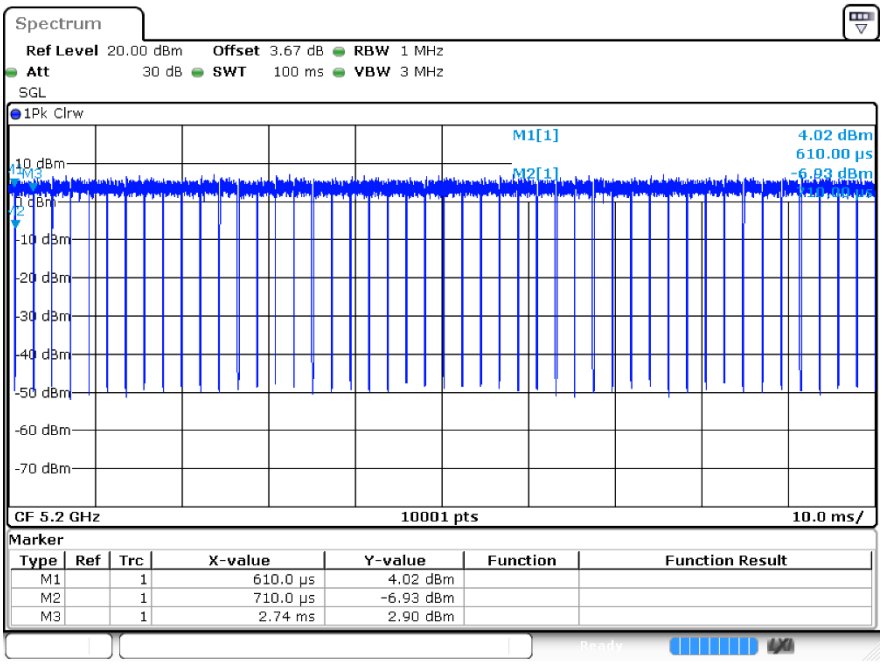
ac40	5510	Ant1	89.72	0.47	1.06
ac40	5670	Ant1	88.9	0.51	1.08
ax20	5180	Ant1	93.73	0.28	0.69
ax20	5200	Ant1	93.37	0.3	0.68
ax20	5240	Ant1	93.72	0.28	0.68
ax20	5260	Ant1	92.79	0.32	0.68
ax20	5280	Ant1	92.88	0.32	0.68
ax20	5320	Ant1	92.76	0.33	0.69
ax20	5500	Ant1	92.81	0.32	0.69
ax20	5600	Ant1	91.43	0.39	0.69
ax20	5700	Ant1	92.55	0.34	0.68
ax40	5190	Ant1	86.87	0.61	1.35
ax40	5230	Ant1	87.56	0.58	1.33
ax40	5310	Ant1	87.12	0.6	1.33
ax40	5270	Ant1	82.63	0.83	1.33
ax40	5510	Ant1	86.86	0.61	1.33
ax40	5670	Ant1	87.43	0.58	1.35

1.2 Test Graphs

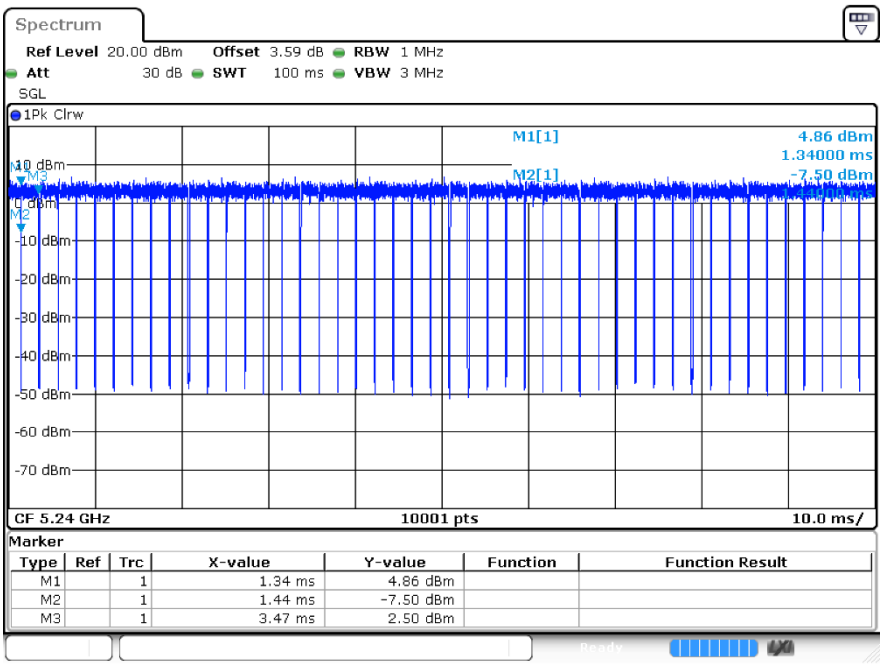
Test Graphs
Duty Cyclea 5180MHz Ant1



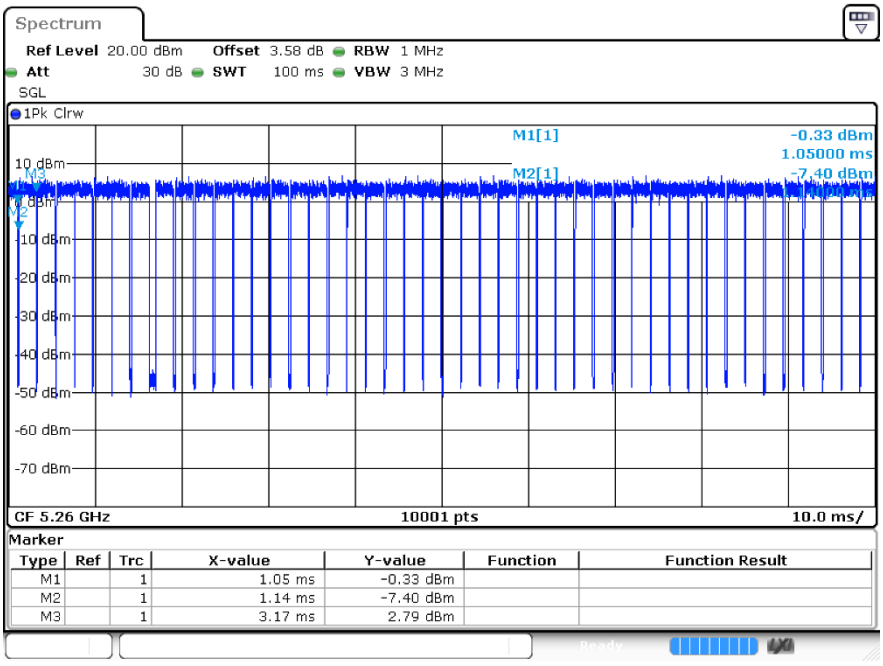
Duty Cycle a 5200MHz Ant1



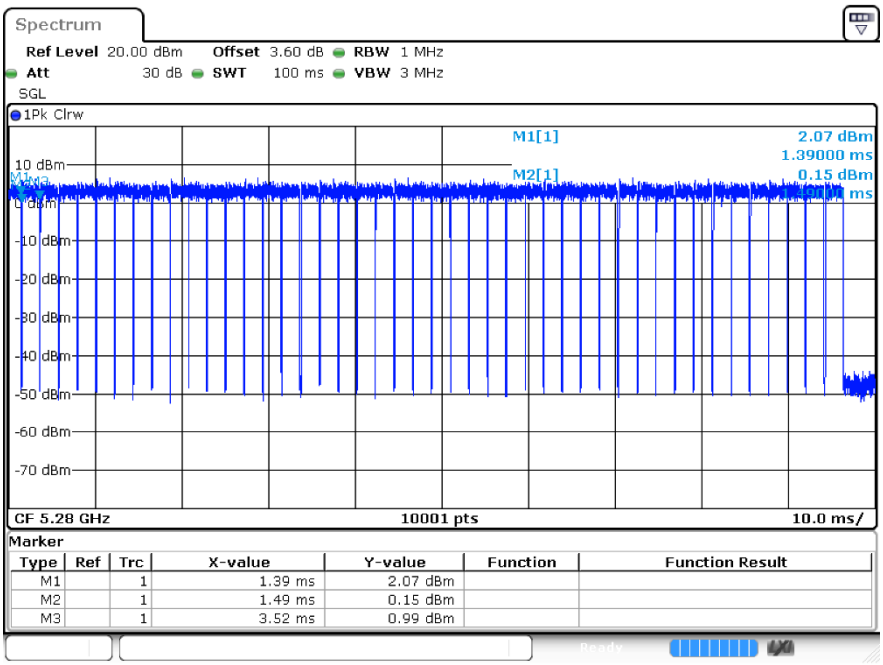
Duty Cyclea 5240MHz Ant1



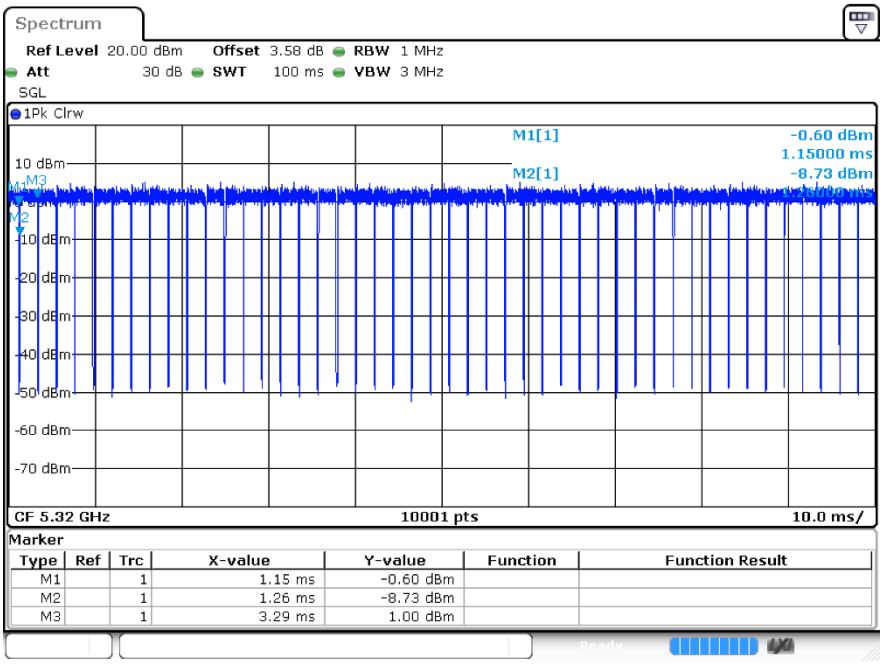
Duty Cycle a 5260MHz Ant1



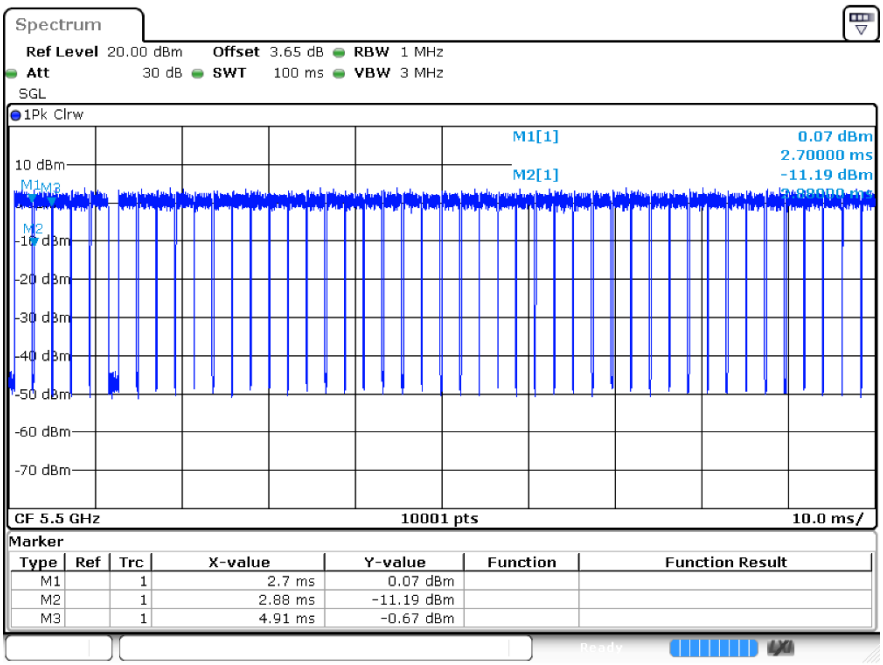
Duty Cyclea 5280MHz Ant1



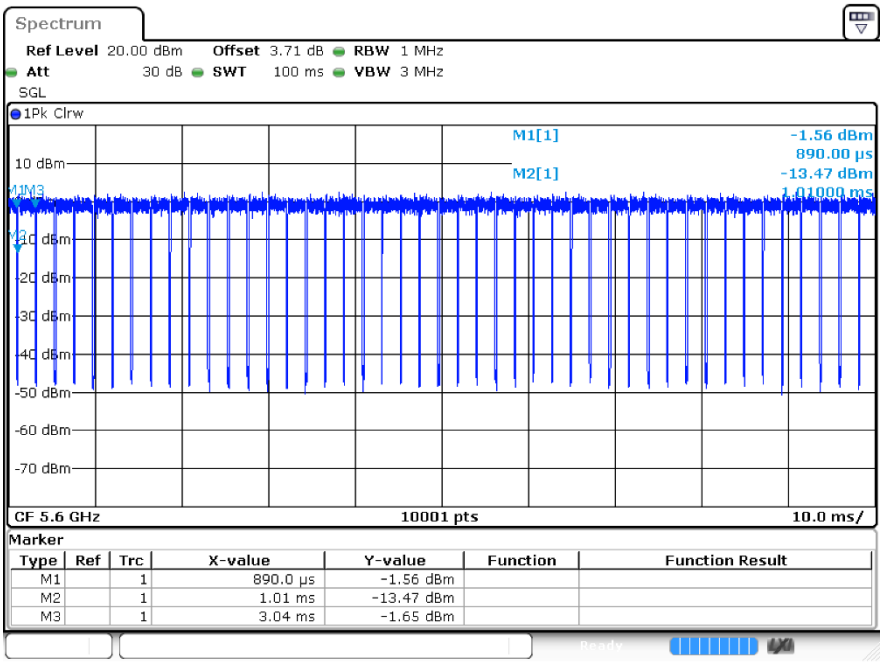
Duty Cycle a 5320MHz Ant1



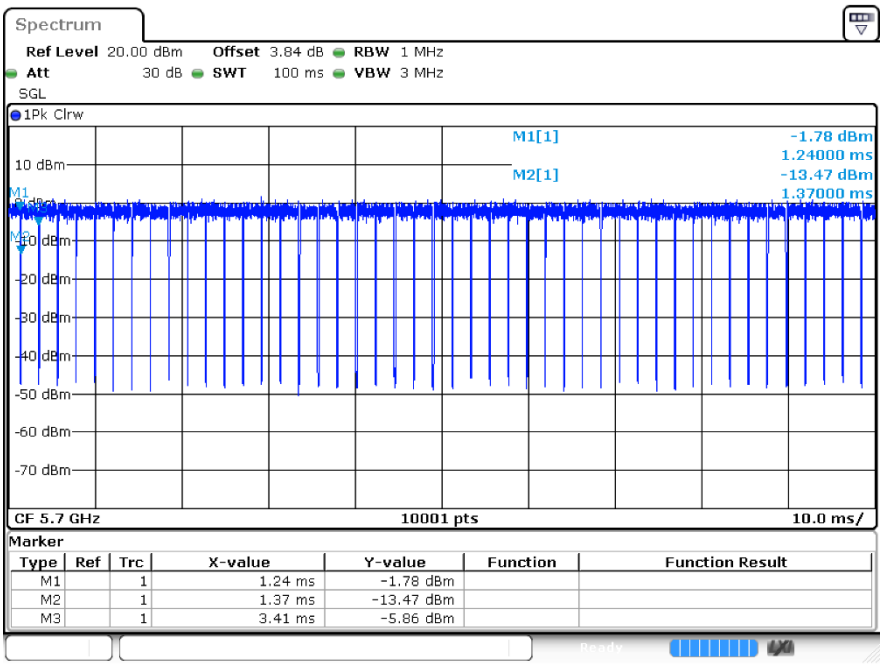
Duty Cyclea 5500MHz Ant1



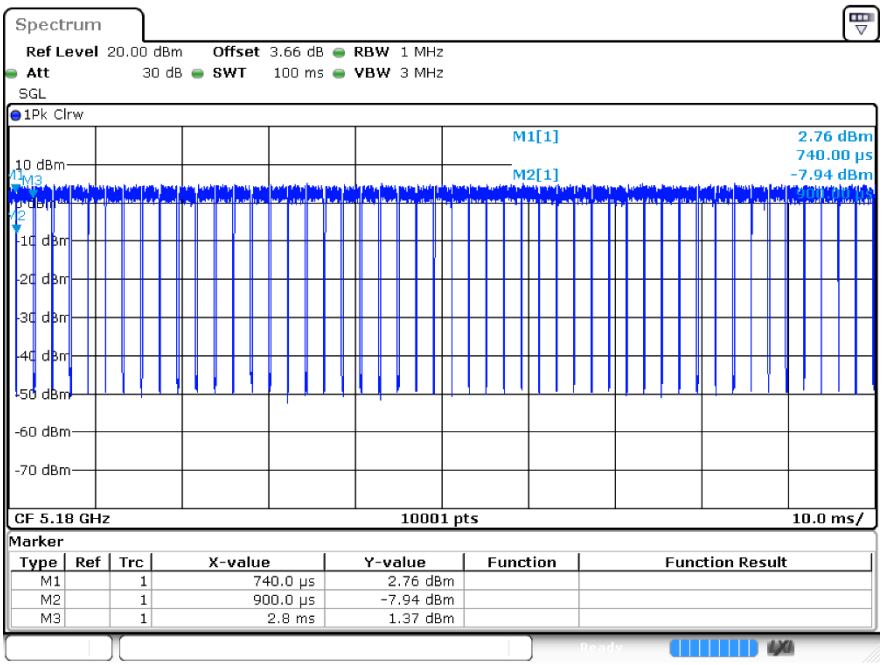
Duty Cycle a 5600MHz Ant1



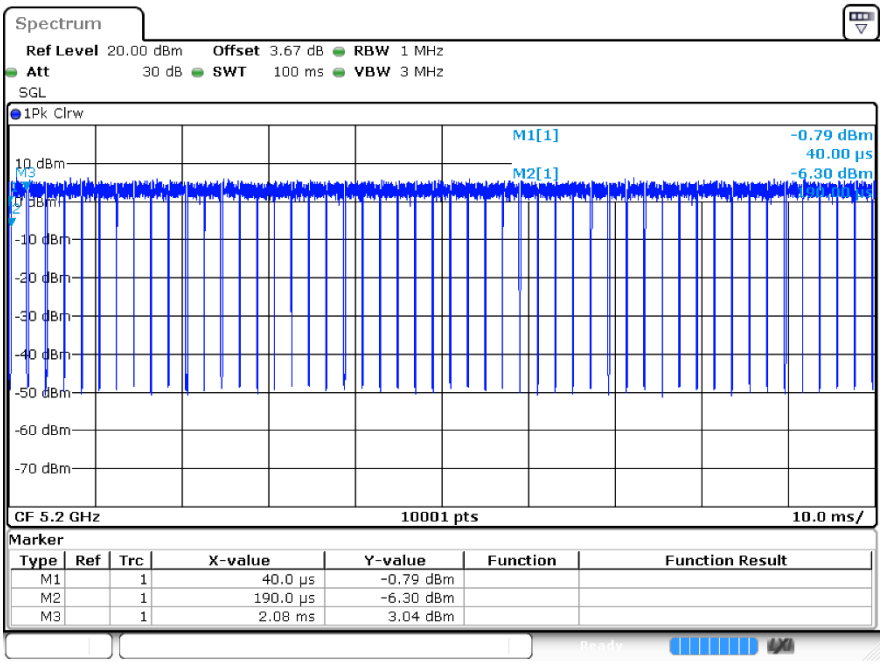
Duty Cycle a 5700MHz Ant1



Duty Cycle n20 5180MHz Ant1



Duty Cycle n20 5200MHz Ant1



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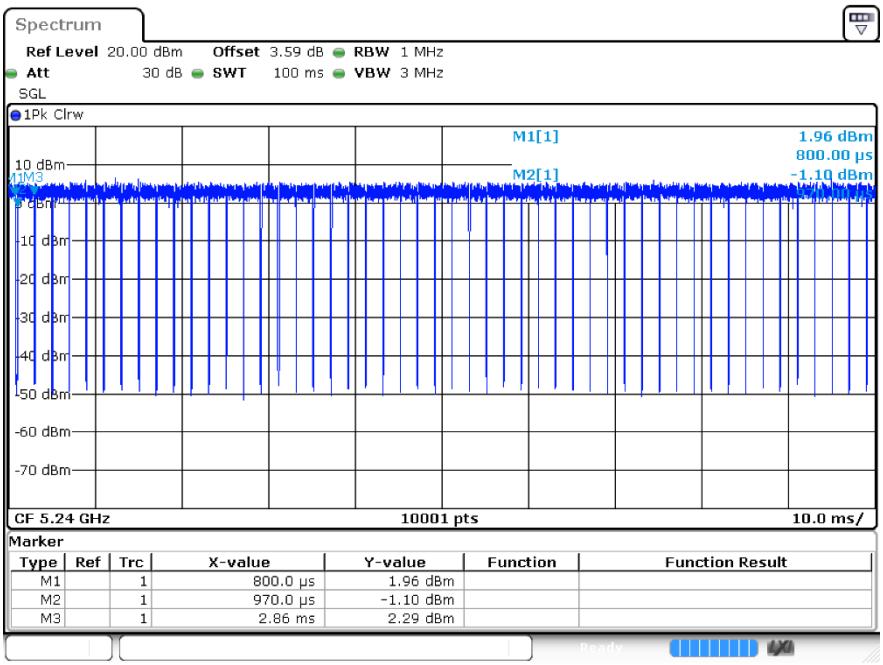
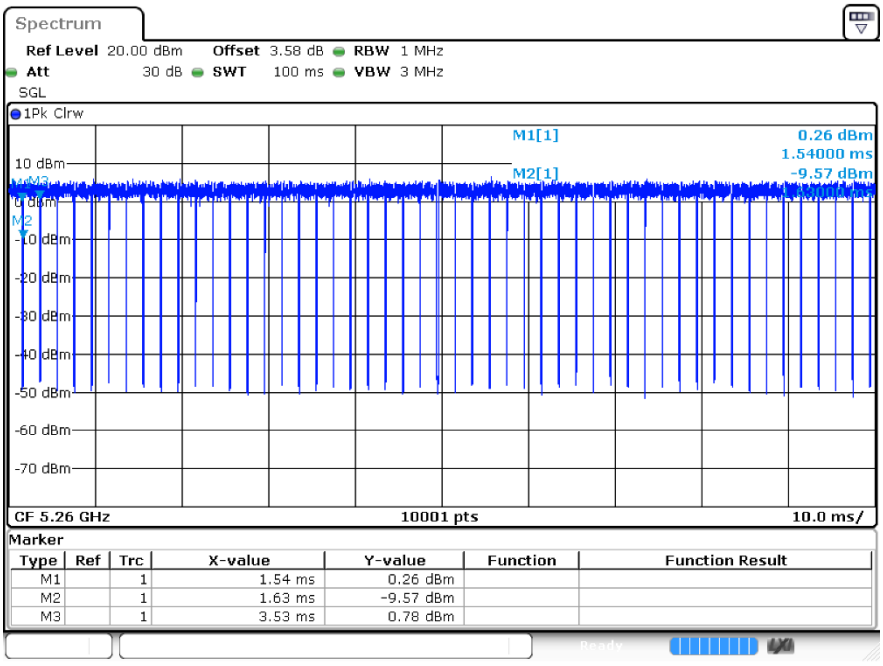
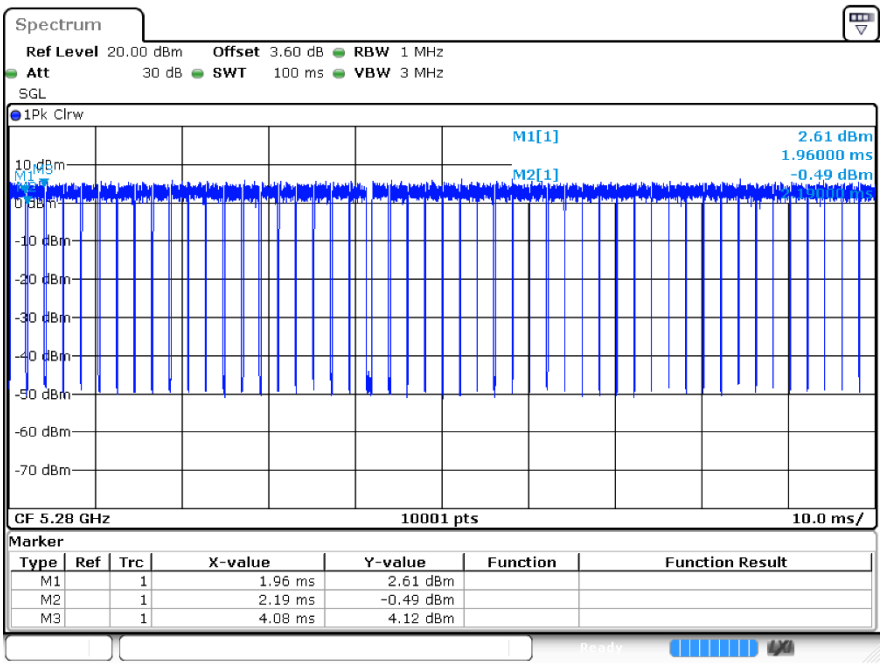


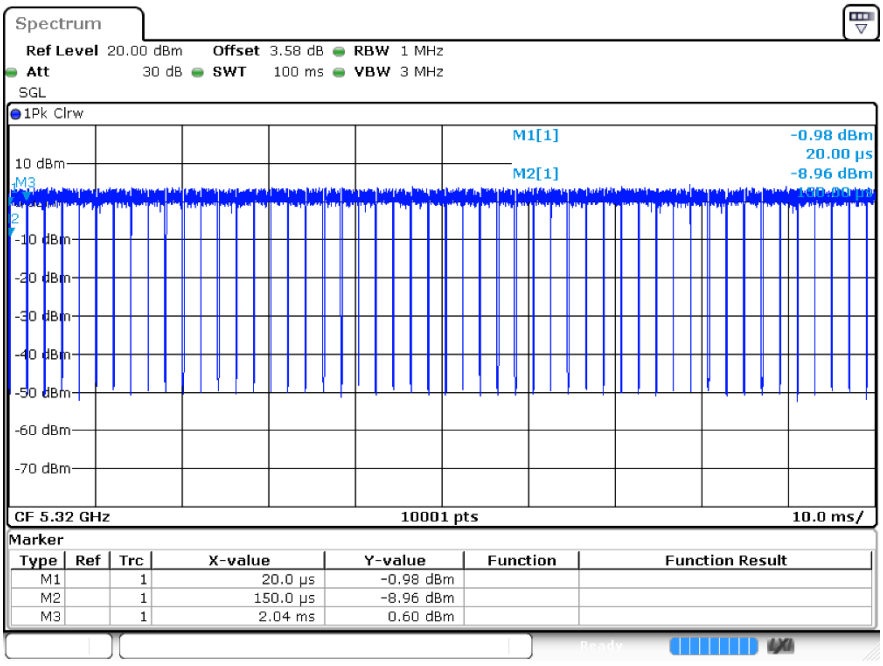
Duty Cycle n20 5260MHz Ant1



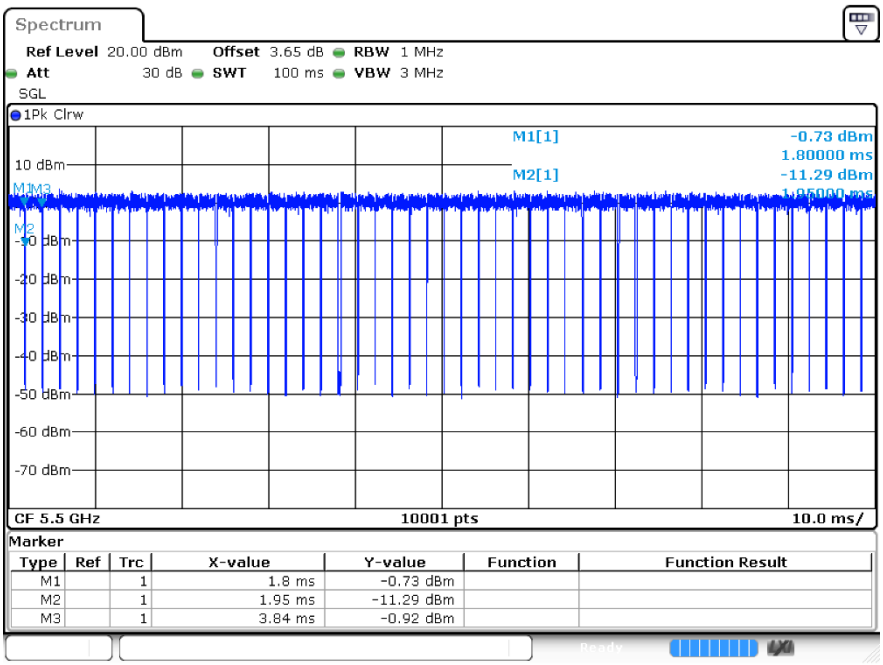
Duty Cycle n20 5280MHz Ant1



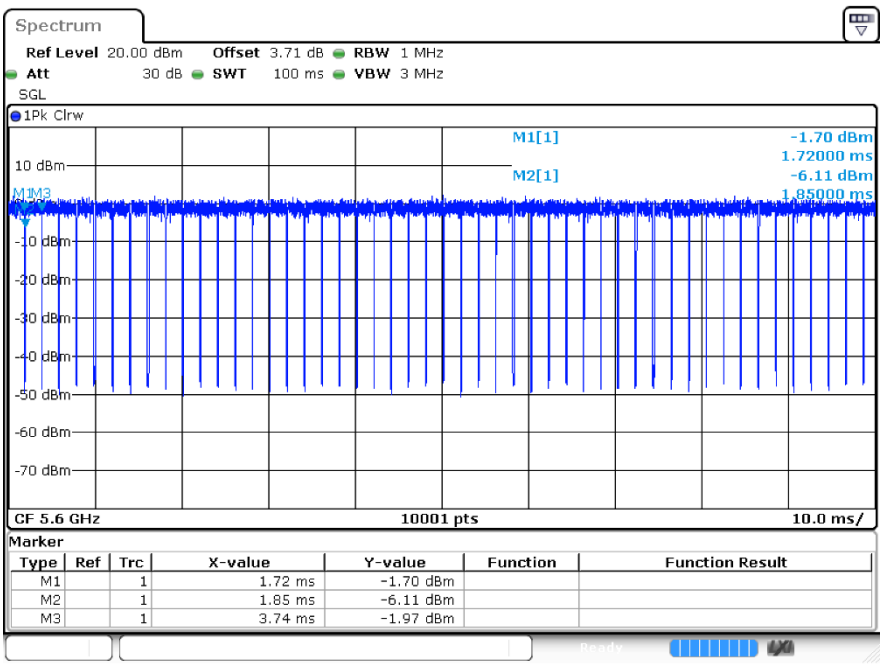
Duty Cycle n20 5320MHz Ant1



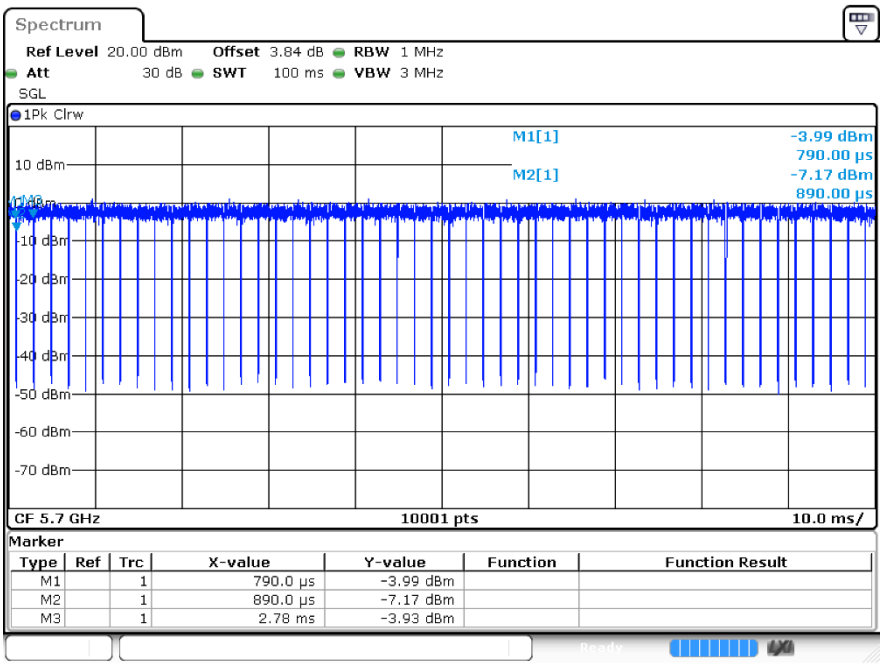
Duty Cycle n20 5500MHz Ant1



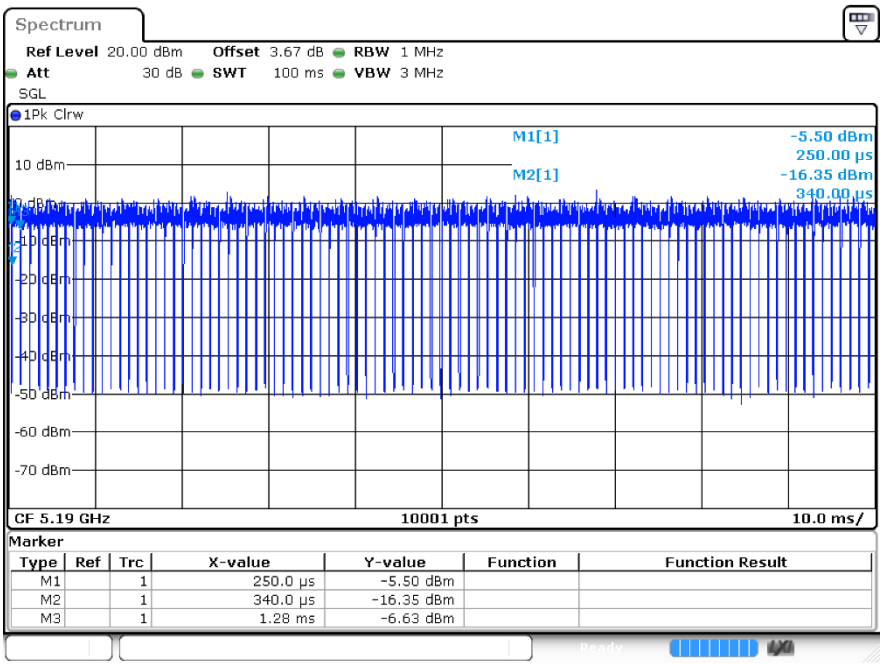
Duty Cycle n20 5600MHz Ant1



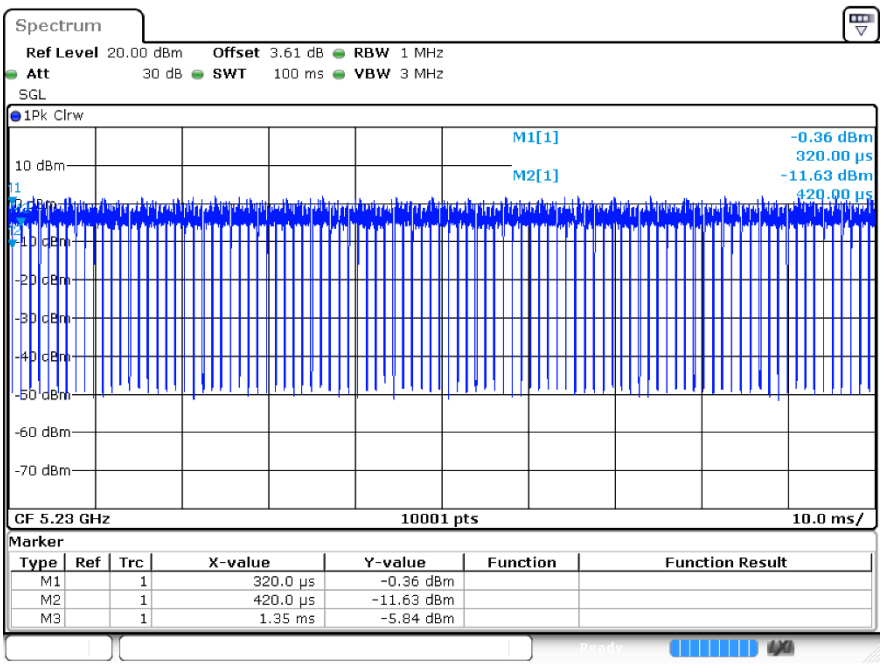
Duty Cycle n20 5700MHz Ant1



Duty Cycle n40 5190MHz Ant1



Duty Cycle n40 5230MHz Ant1



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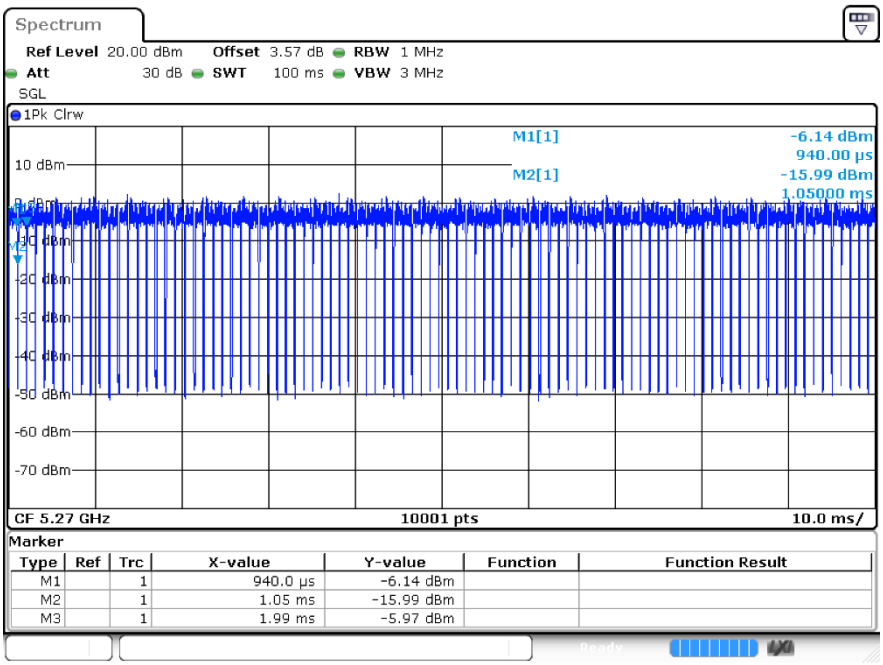
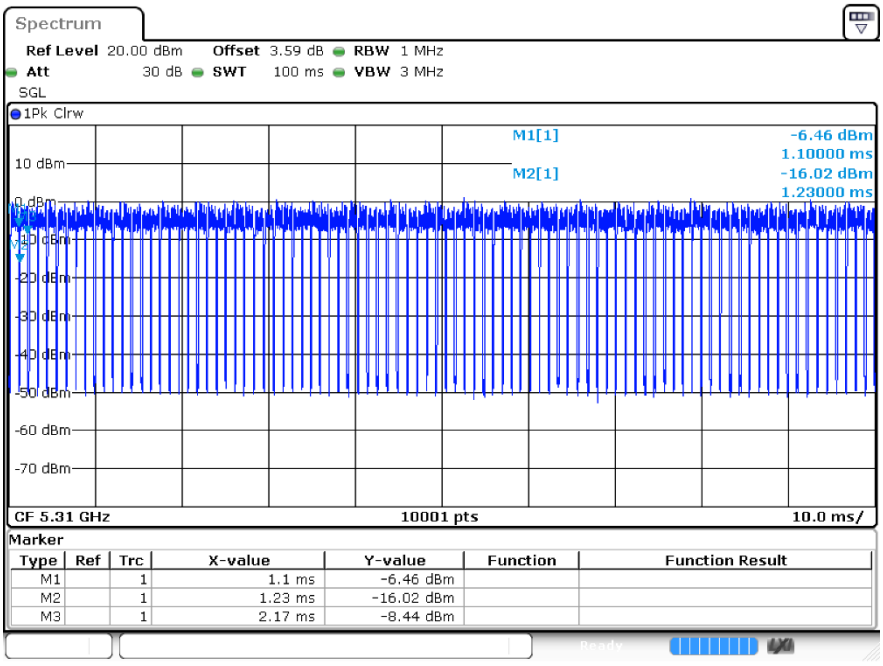
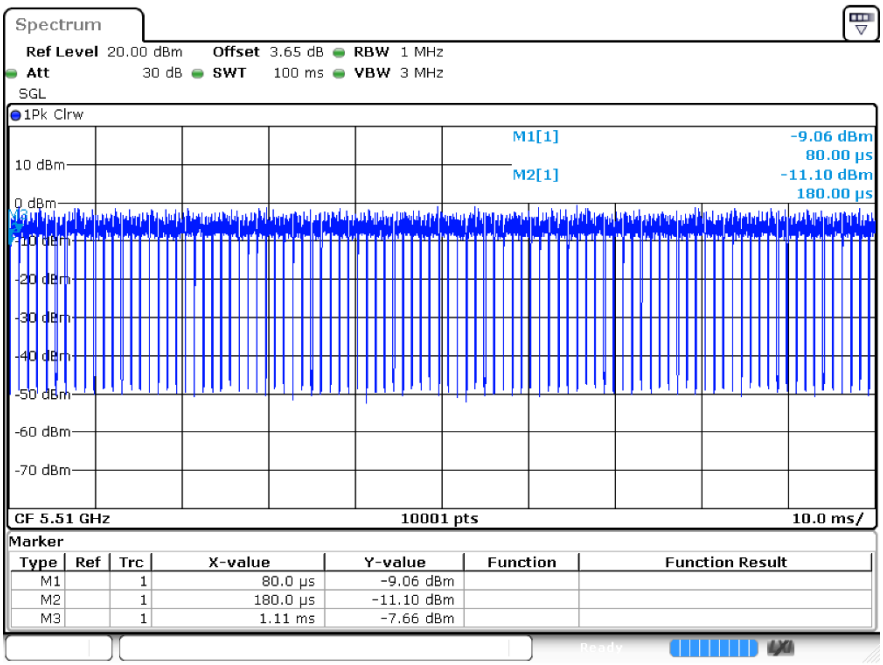


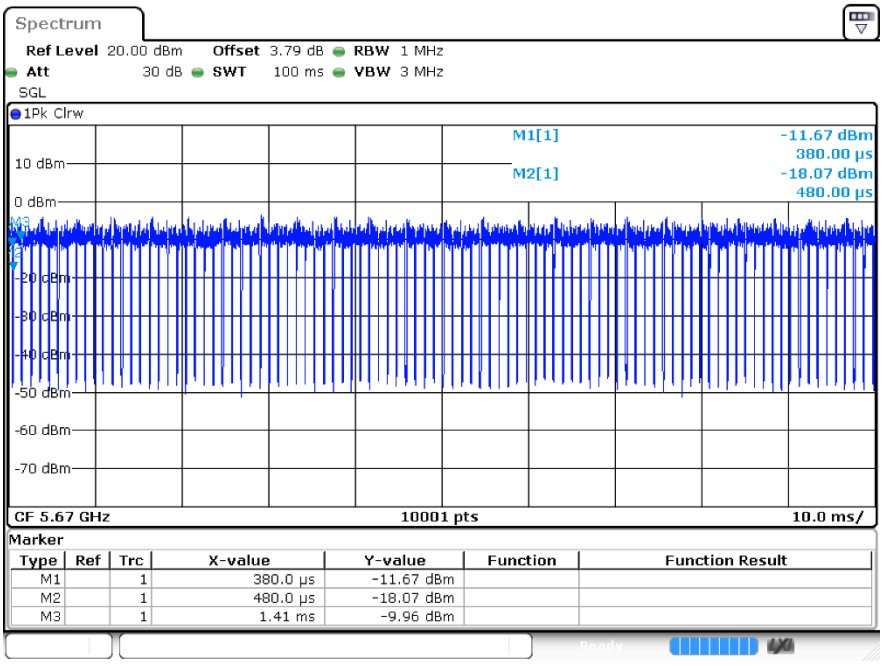
Duty Cycle n40 5310MHz Ant1



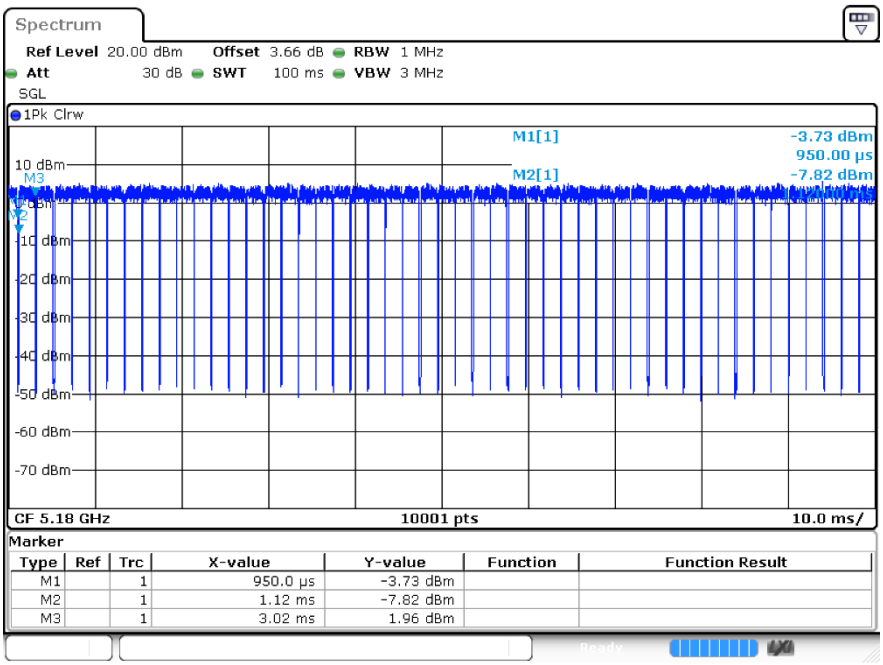
Duty Cycle n40 5510MHz Ant1



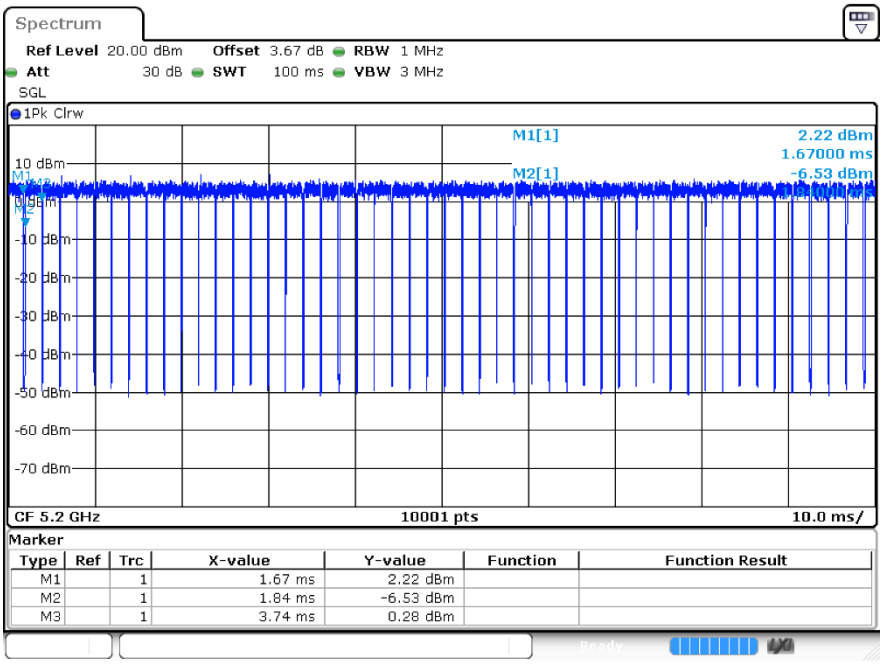
Duty Cycle n40 5670MHz Ant1



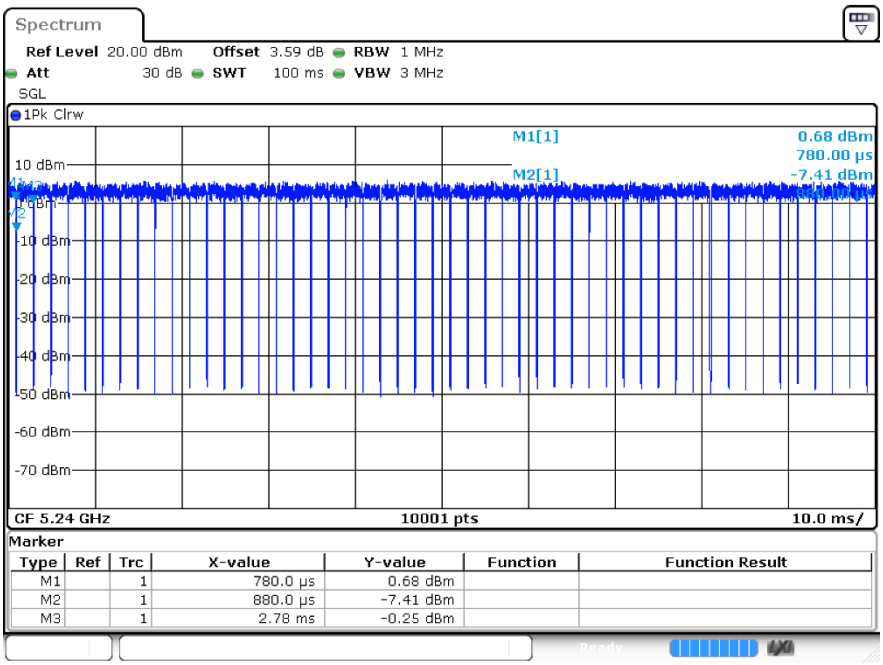
Duty Cycle ac20 5180MHz Ant1



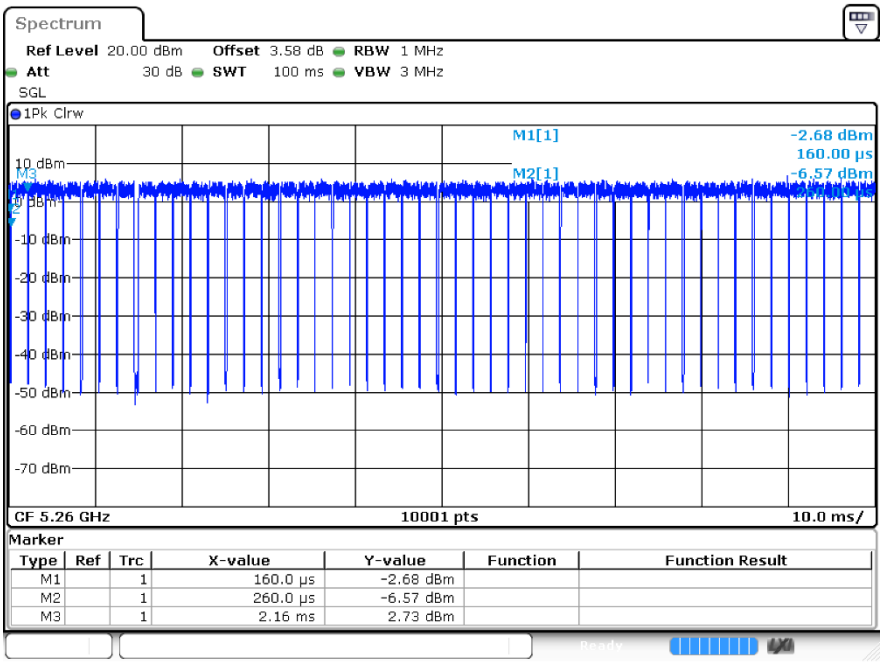
Duty Cycle ac20 5200MHz Ant1



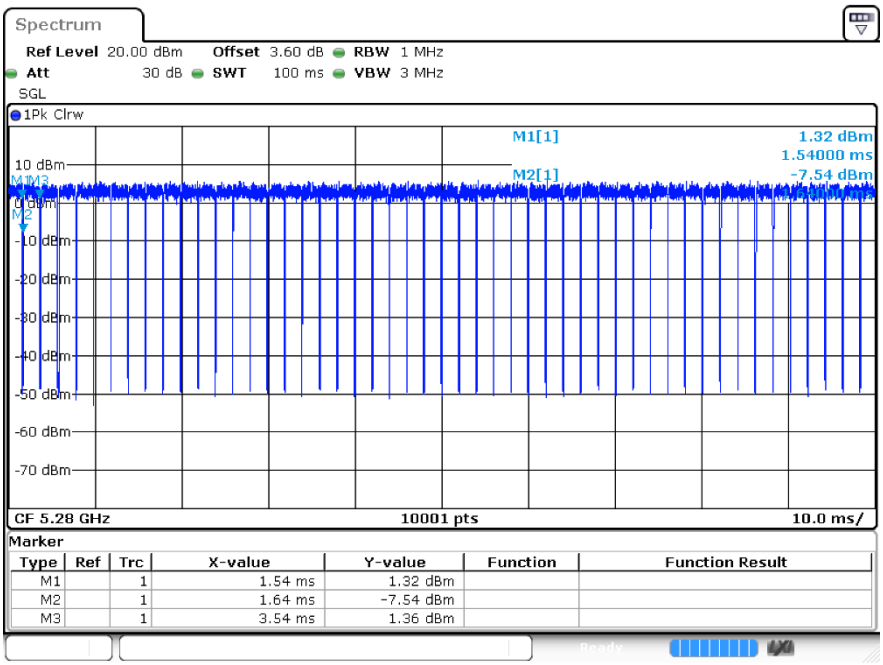
Duty Cycle ac20 5240MHz Ant1



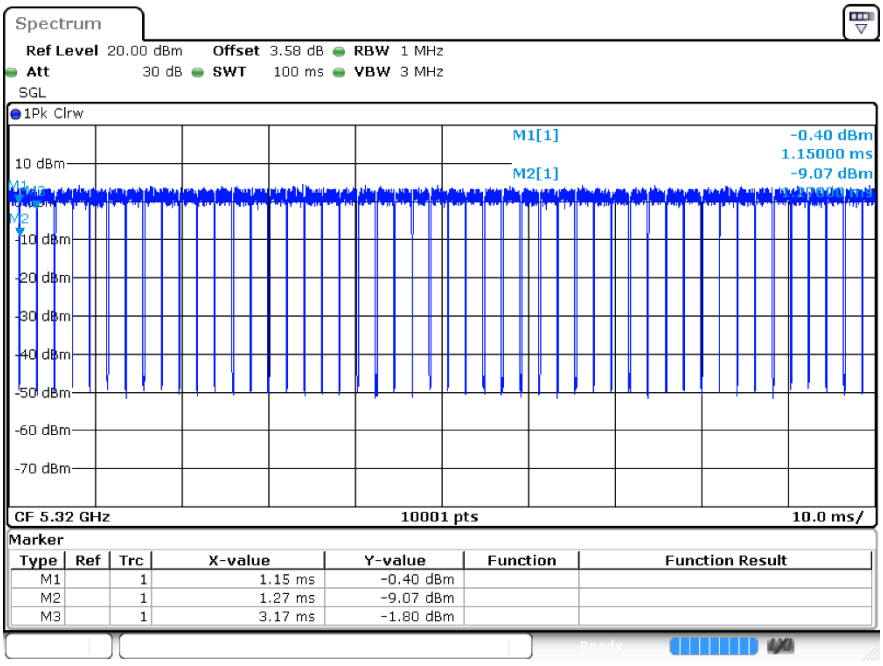
Duty Cycle ac20 5260MHz Ant1



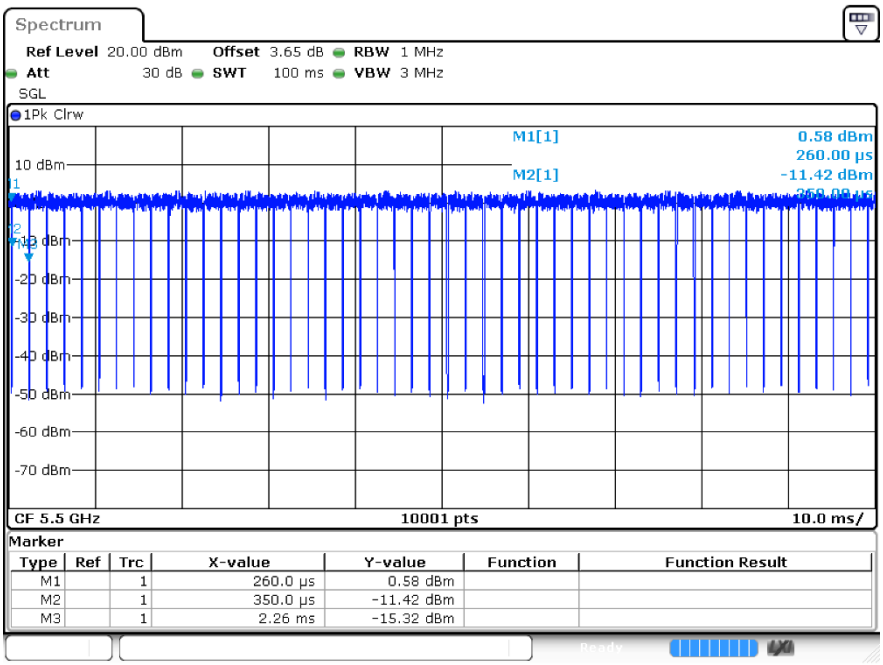
Duty Cycle ac20 5280MHz Ant1



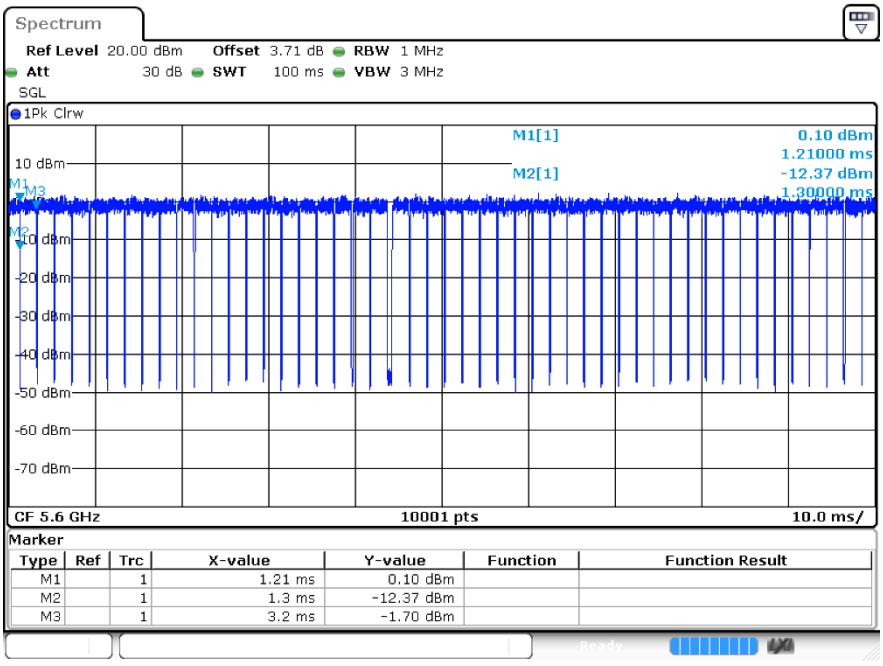
Duty Cycle ac20 5320MHz Ant1



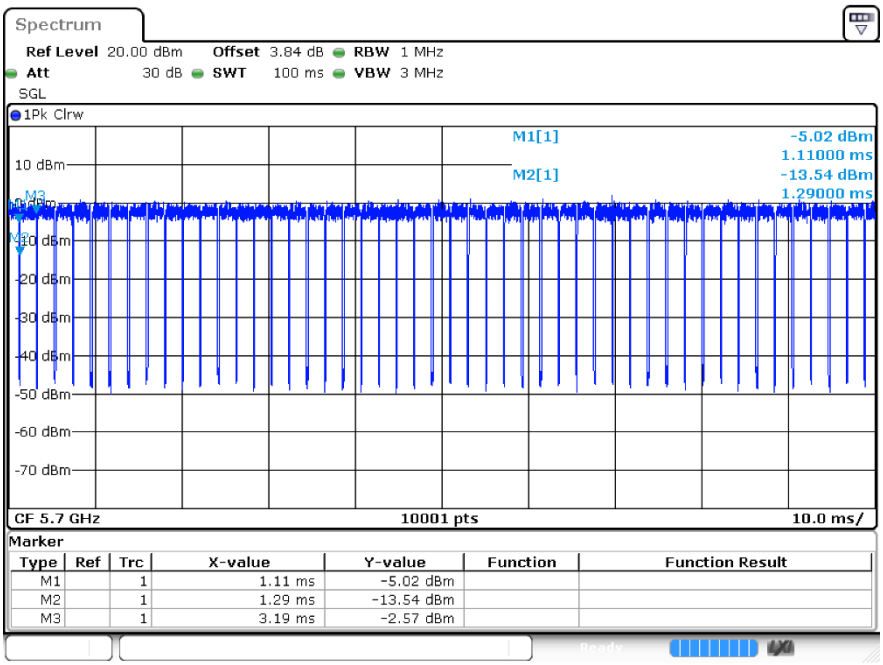
Duty Cycle ac20 5500MHz Ant1



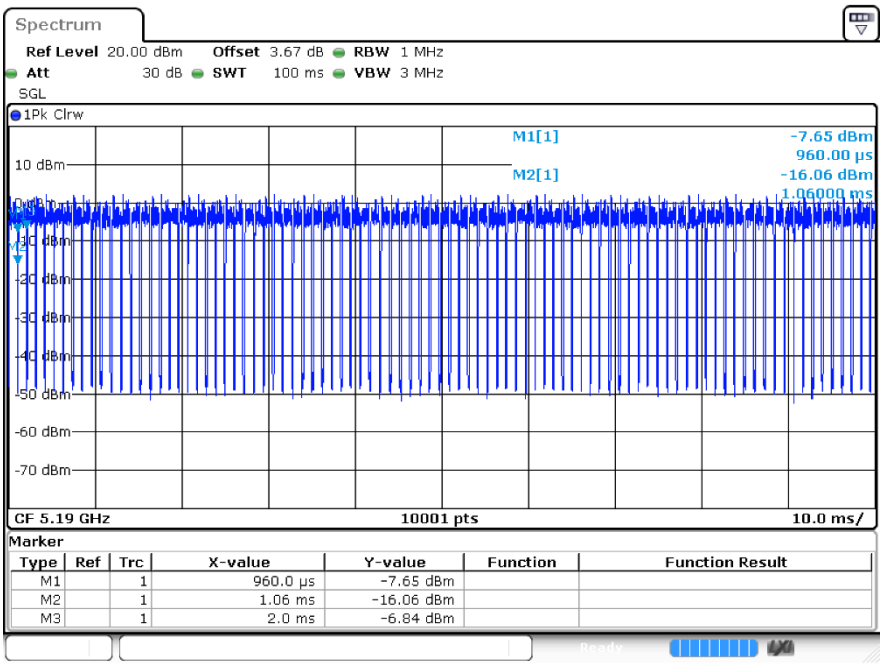
Duty Cycle ac20 5600MHz Ant1



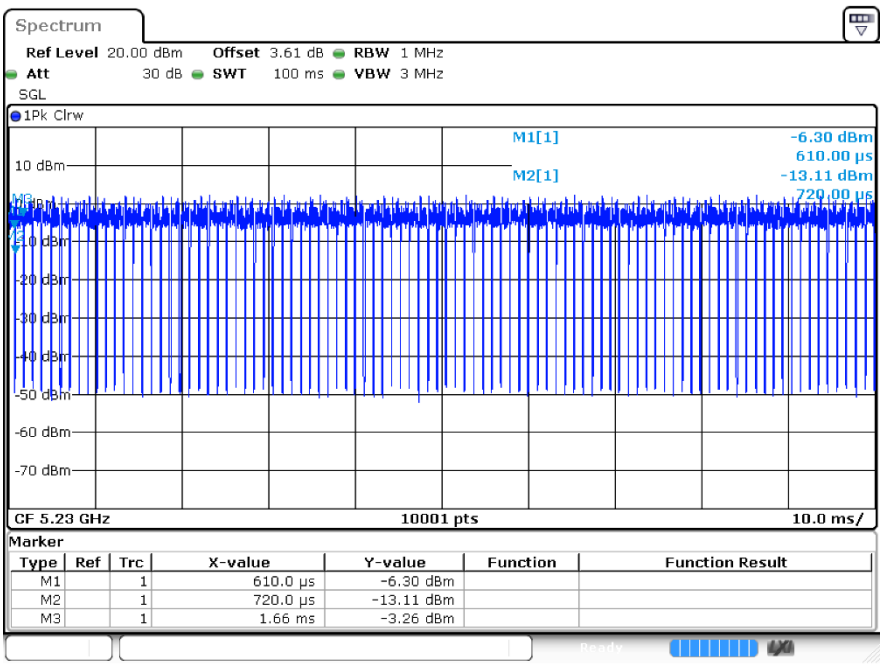
Duty Cycle ac20 5700MHz Ant1



Duty Cycleac40 5190MHz Ant1



Duty Cycleac40 5230MHz Ant1



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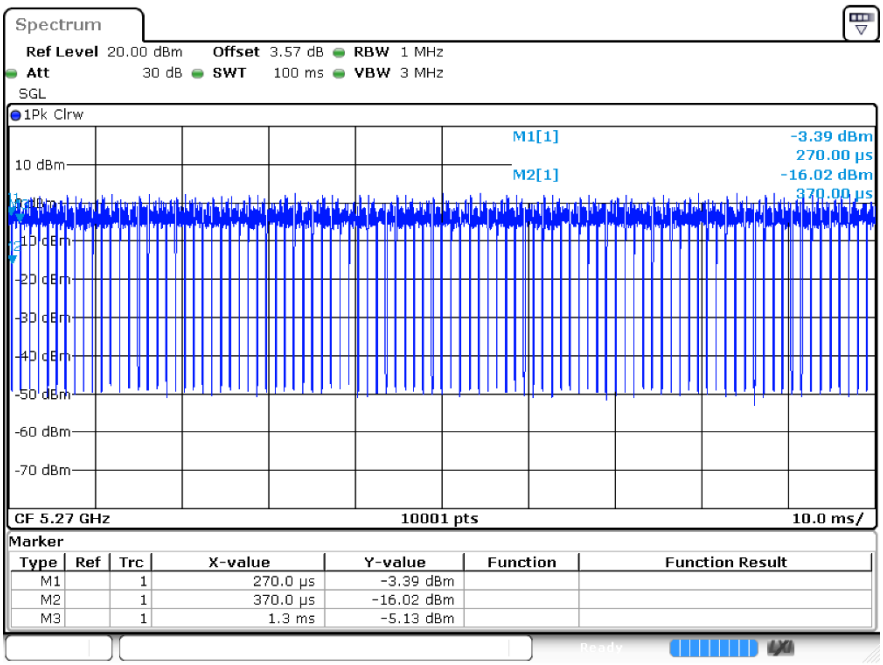
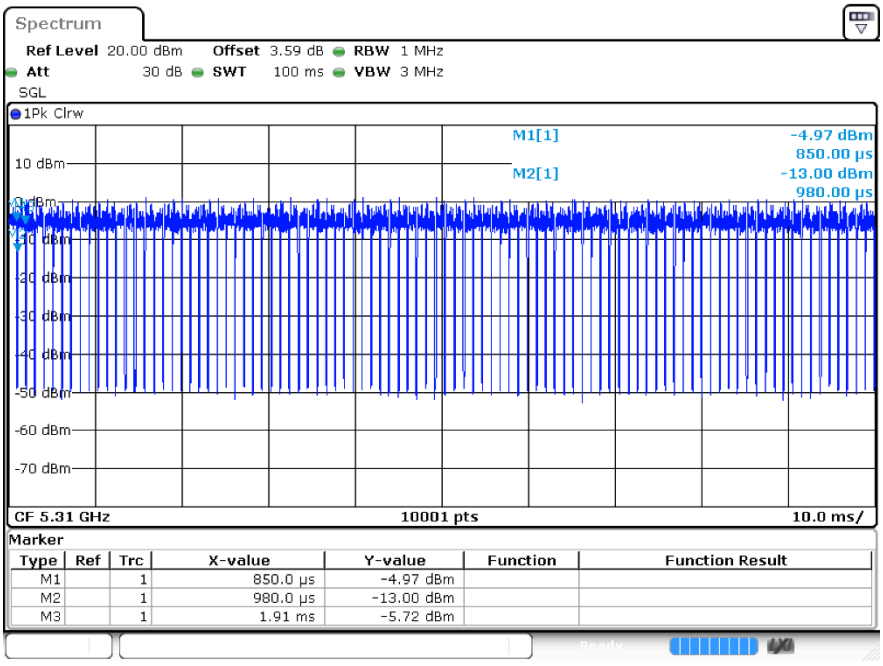
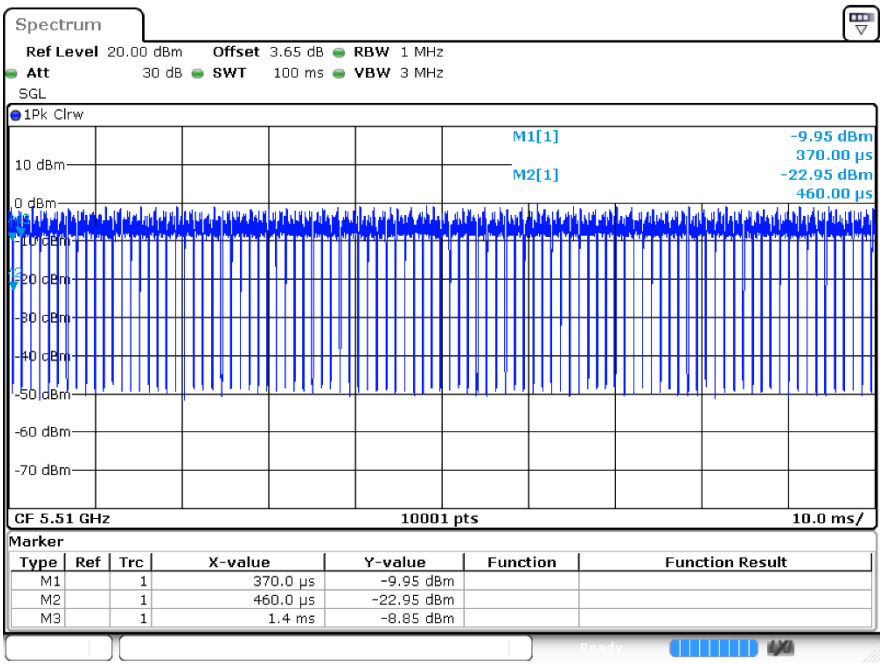


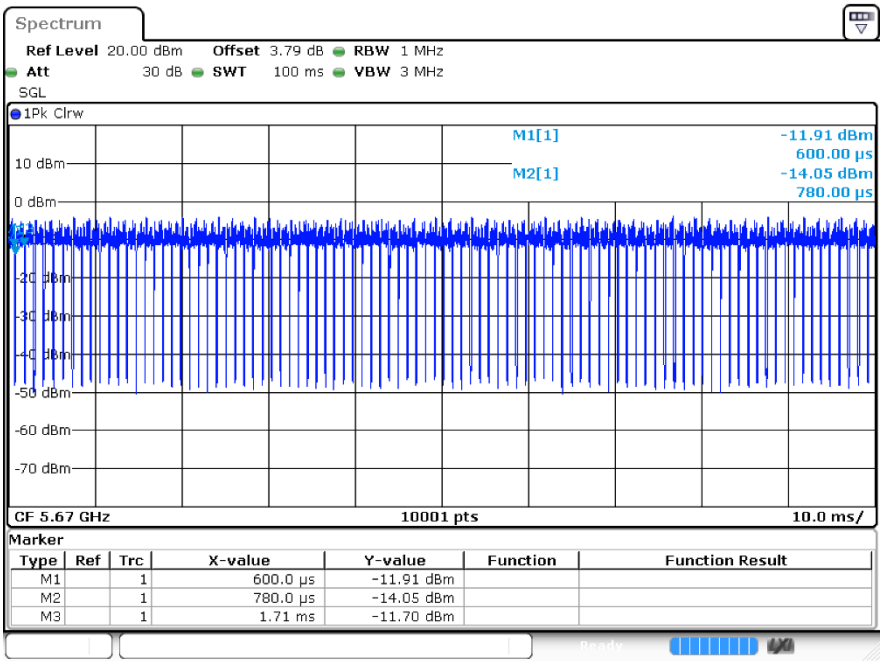
Duty Cycle ac40 5310MHz Ant1



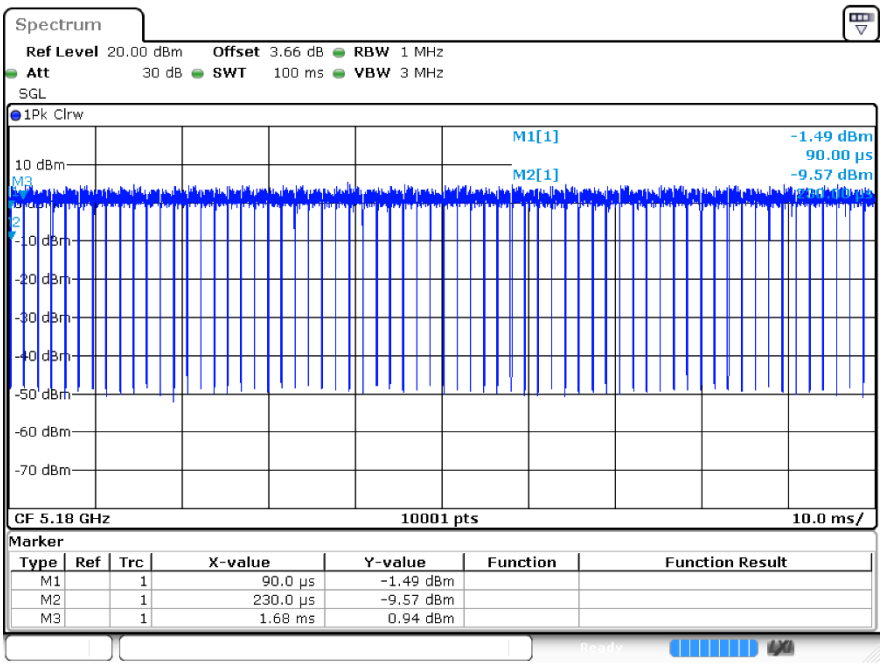
Duty Cycleac40 5510MHz Ant1



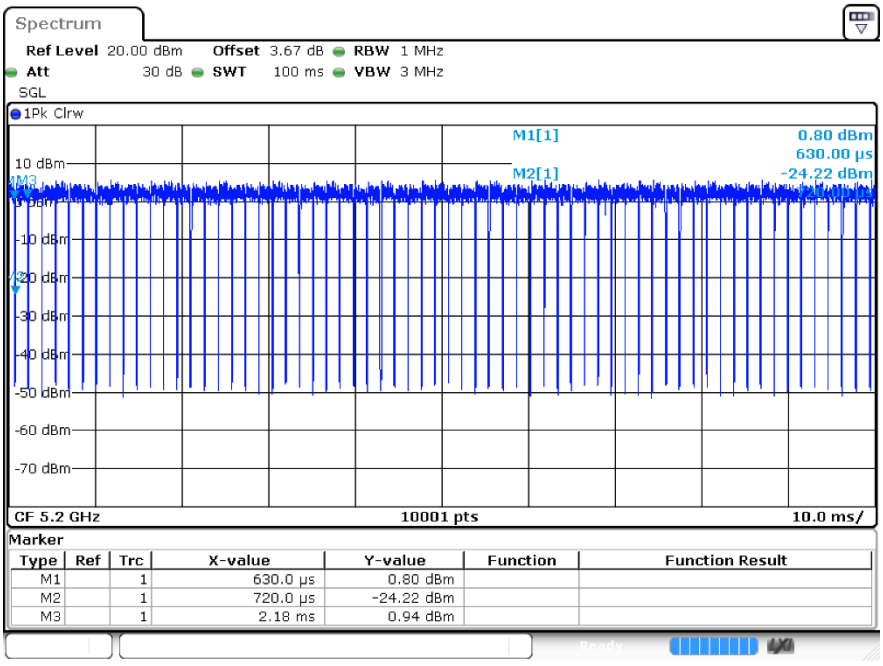
Duty Cycle ac40 5670MHz Ant1



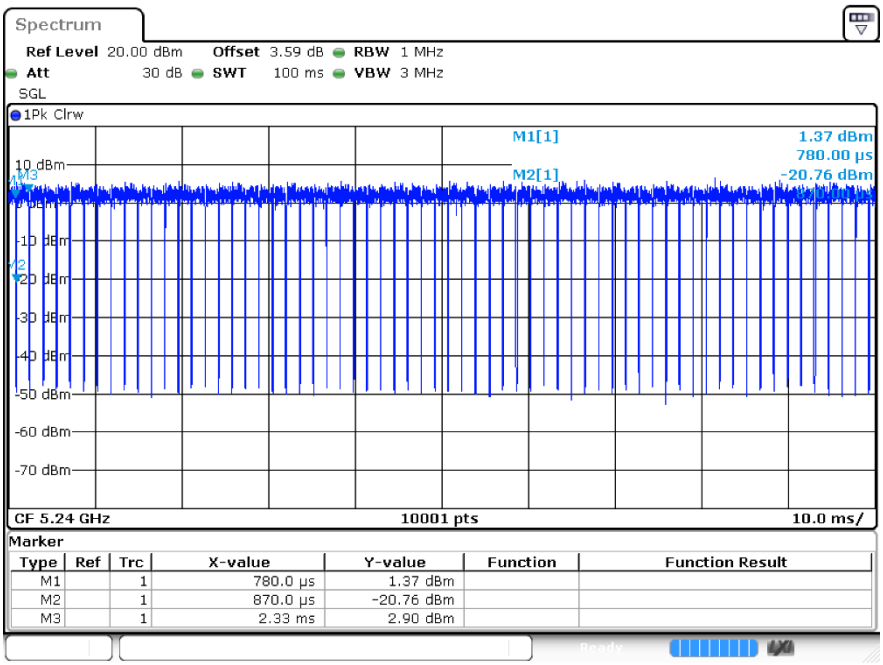
Duty Cycle ax20 5180MHz Ant1



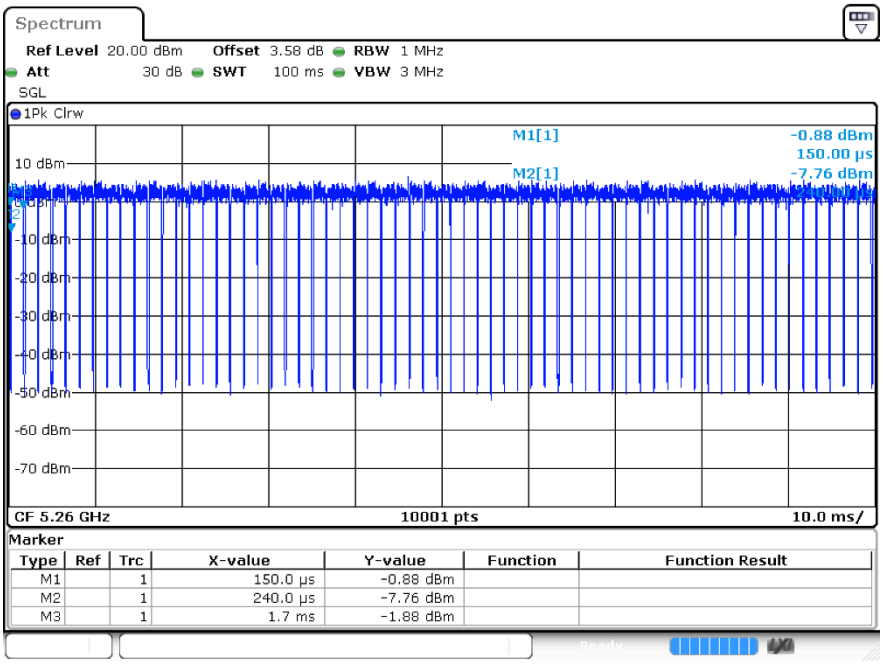
Duty Cycle ax20 5200MHz Ant1



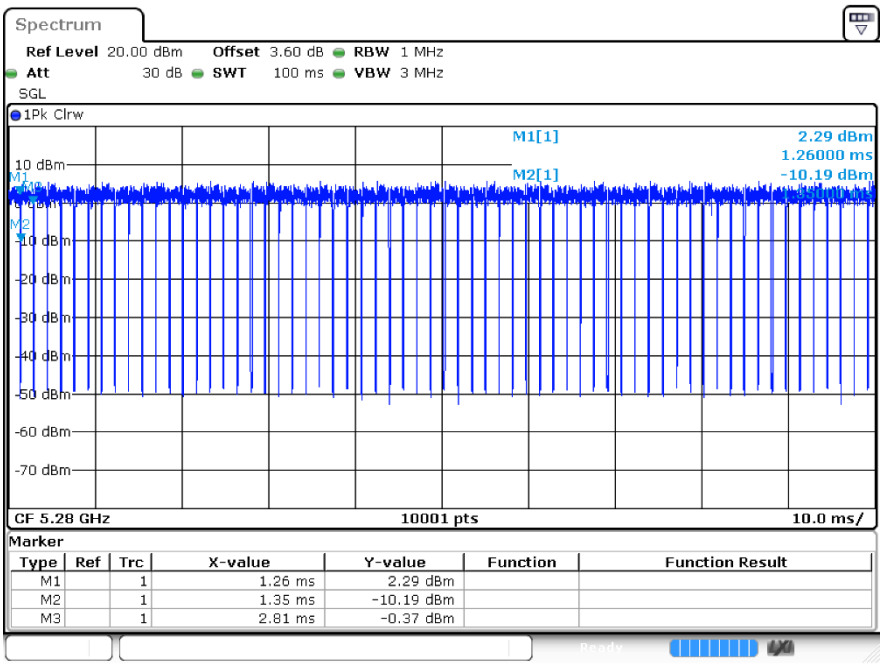
Duty Cycle ax20 5240MHz Ant1



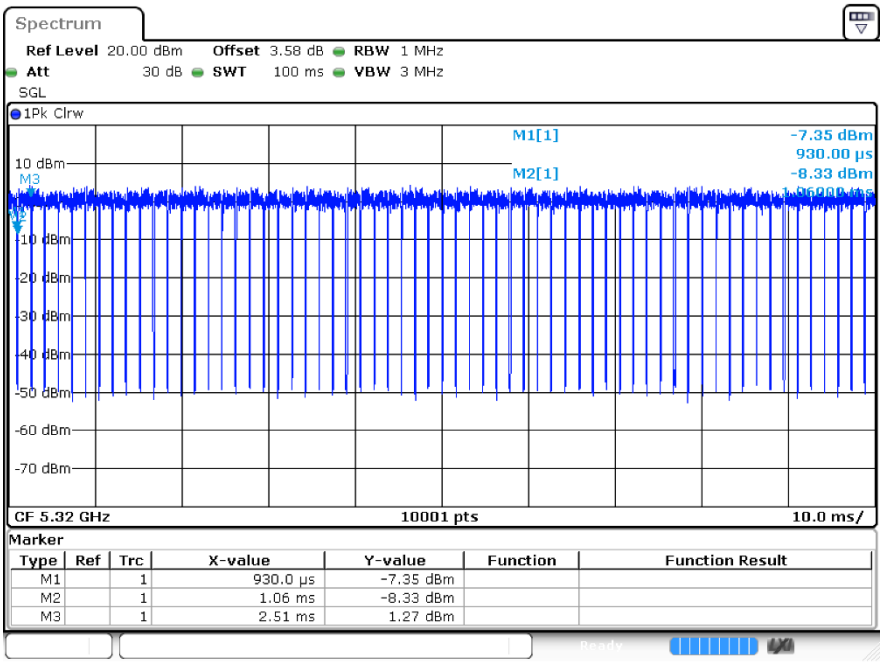
Duty Cycle ax20 5260MHz Ant1



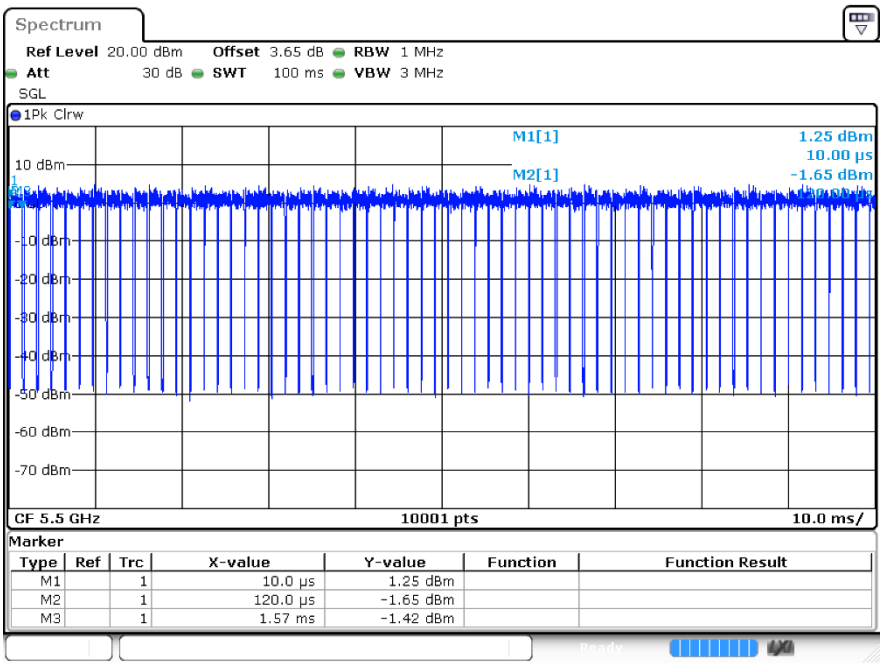
Duty Cycle ax20 5280MHz Ant1



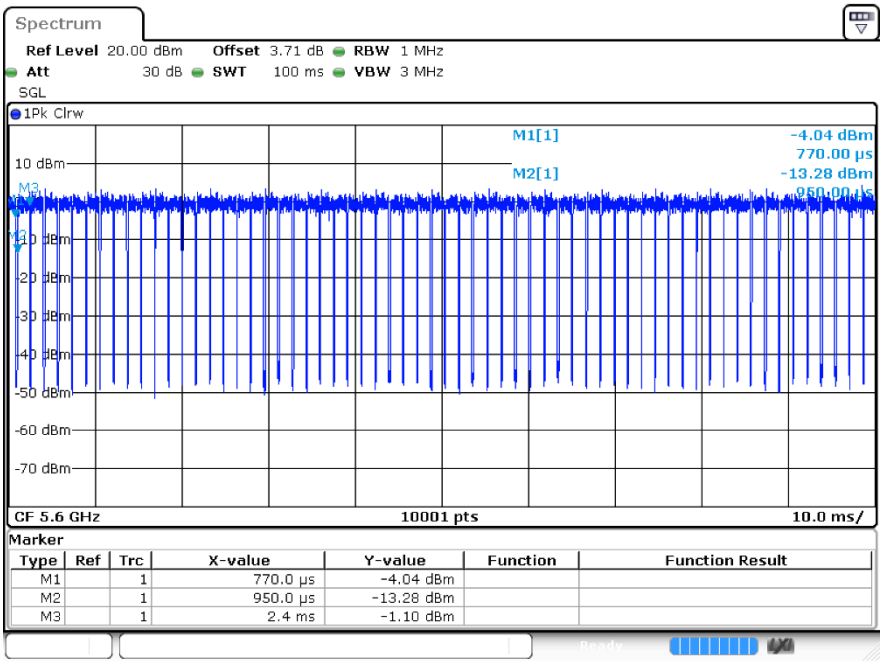
Duty Cycle ax20 5320MHz Ant1



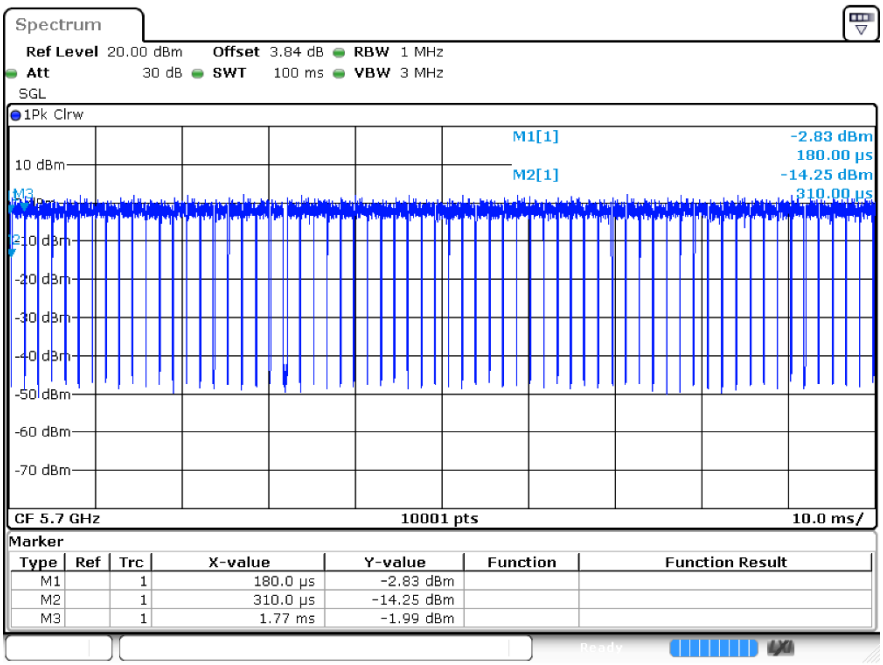
Duty Cycle ax20 5500MHz Ant1



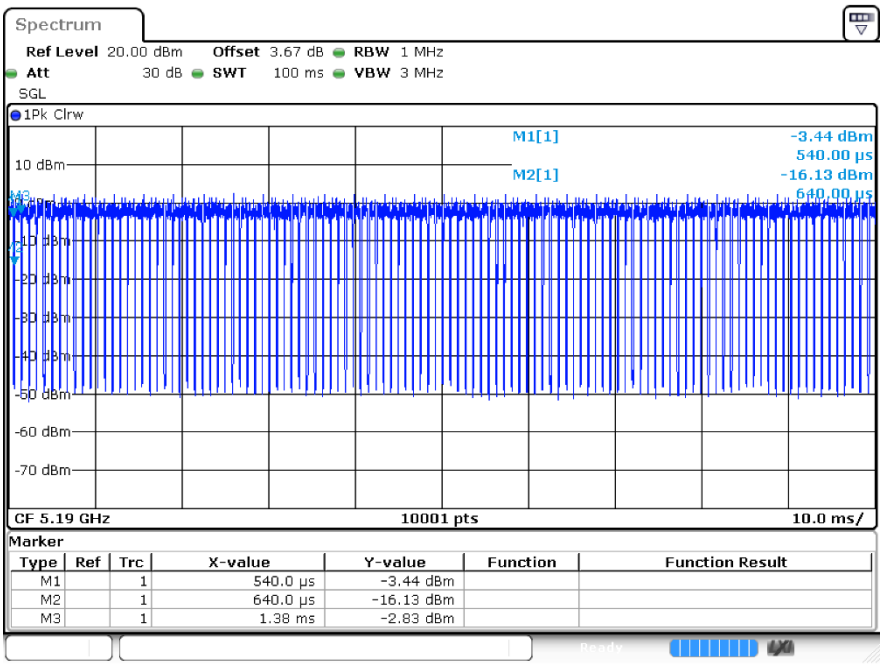
Duty Cycle ax20 5600MHz Ant1



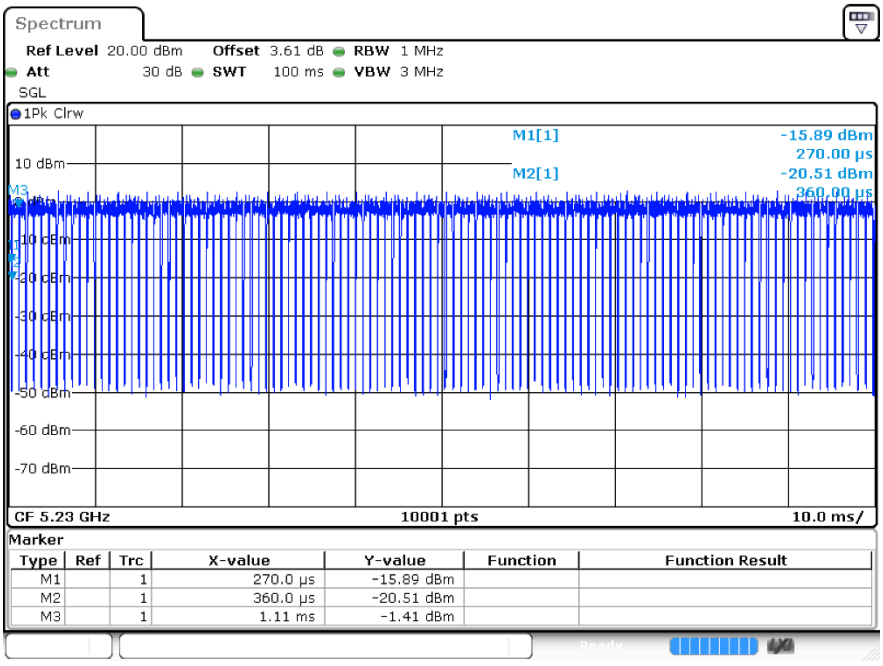
Duty Cycle ax20 5700MHz Ant1



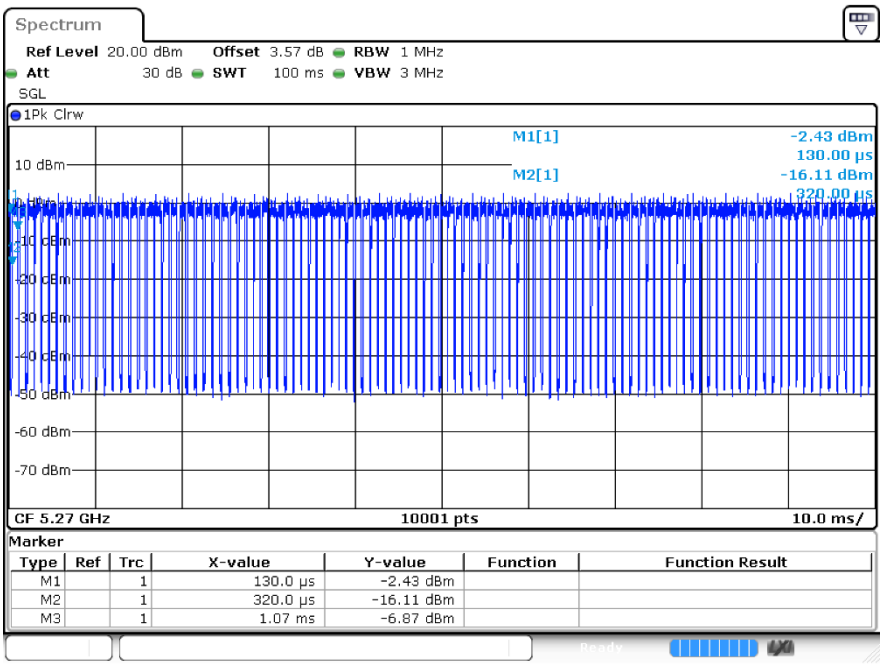
Duty Cycleax40 5190MHz Ant1



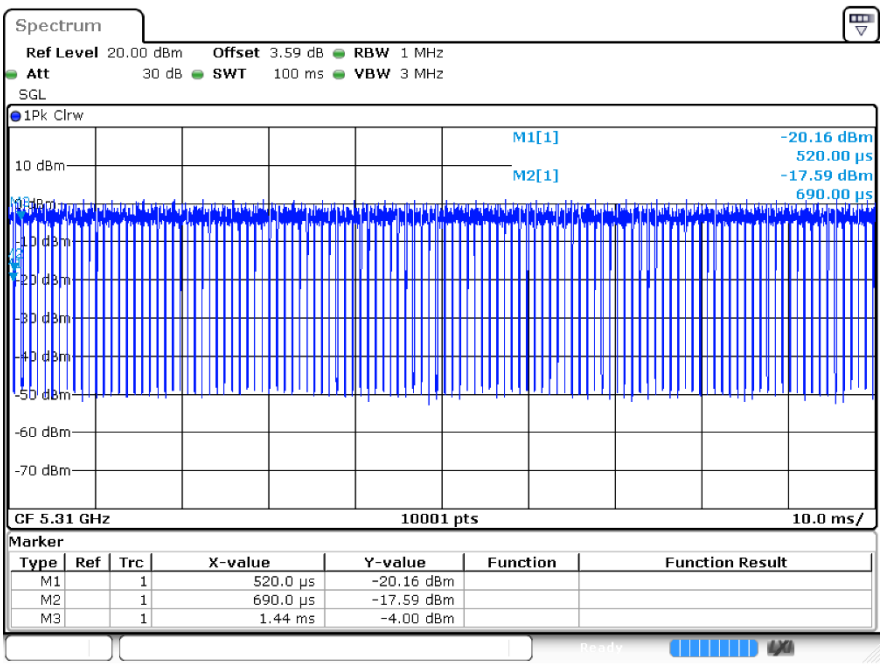
Duty Cycleax40 5230MHz Ant1



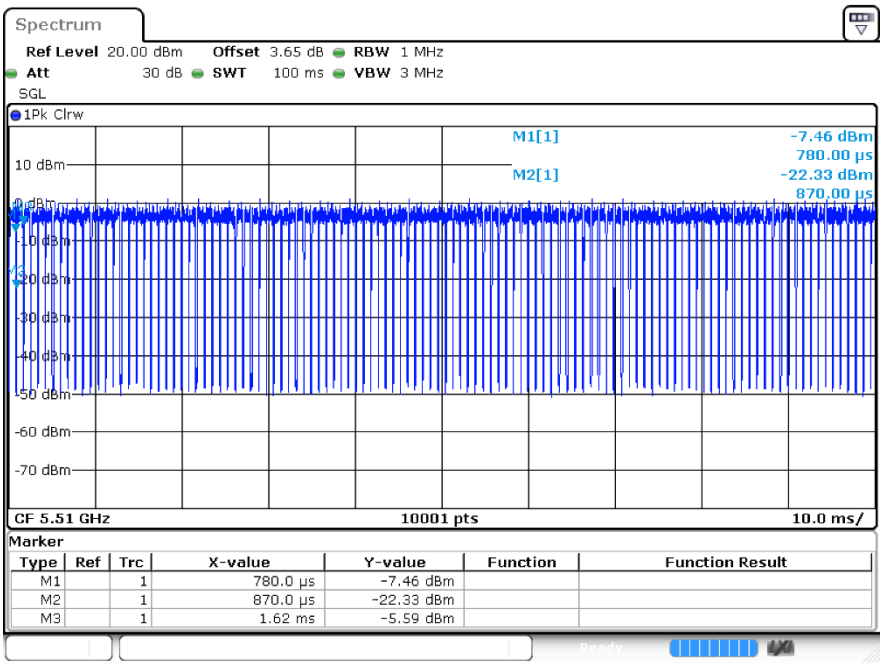
Duty Cycle ax40 5270MHz Ant1



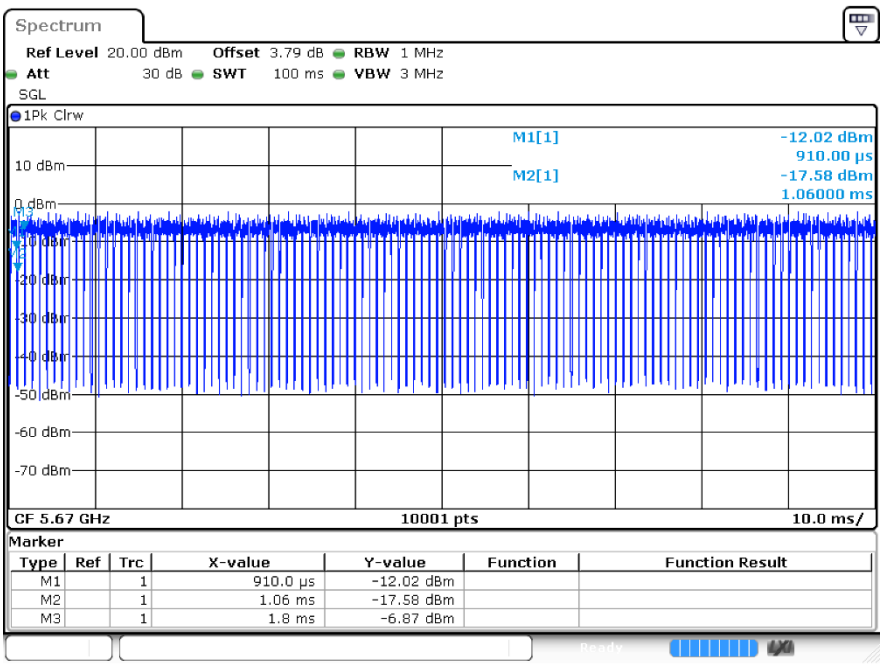
Duty Cycle ax40 5310MHz Ant1



Duty Cycleax40 5510MHz Ant1



Duty Cycle ax40 5670MHz Ant1



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	13.18	0.22	13.4	24	Pass
a	5200	Ant1	13.86	0.24	14.1	24	Pass
a	5240	Ant1	13.78	0.22	14	24	Pass
a	5260	Ant1	13.74	0.34	14.08	24	Pass
a	5280	Ant1	13.63	0.4	14.03	24	Pass
a	5320	Ant1	12.07	0.23	12.3	24	Pass
a	5500	Ant1	11.22	0.33	11.55	24	Pass
a	5600	Ant1	9.76	0.39	10.15	24	Pass
a	5700	Ant1	8.44	0.24	8.68	24	Pass
n20	5180	Ant1	13.27	0.35	13.62	24	Pass
n20	5200	Ant1	13.84	0.29	14.13	24	Pass
n20	5240	Ant1	13.8	0.22	14.02	24	Pass
n20	5260	Ant1	13.7	0.21	13.91	24	Pass
n20	5280	Ant1	13.62	0.31	13.93	24	Pass
n20	5320	Ant1	12.1	0.26	12.36	24	Pass
n20	5500	Ant1	11.18	0.24	11.42	24	Pass
n20	5600	Ant1	9.74	0.25	9.99	24	Pass
n20	5700	Ant1	8.42	0.22	8.64	24	Pass
n40	5190	Ant1	13.76	0.48	14.24	24	Pass
n40	5230	Ant1	14.12	0.48	14.6	24	Pass
n40	5270	Ant1	13.91	0.49	14.4	24	Pass
n40	5310	Ant1	12.83	0.66	13.49	24	Pass
n40	5510	Ant1	11.17	0.49	11.66	24	Pass
n40	5670	Ant1	7.97	0.52	8.49	24	Pass
ac20	5180	Ant1	13.33	0.25	13.58	24	Pass
ac20	5200	Ant1	13.78	0.24	14.02	24	Pass
ac20	5240	Ant1	13.83	0.21	14.04	24	Pass
ac20	5260	Ant1	13.7	0.28	13.98	24	Pass
ac20	5280	Ant1	13.73	0.23	13.96	24	Pass
ac20	5320	Ant1	12.14	0.35	12.49	24	Pass
ac20	5500	Ant1	11.18	0.24	11.42	24	Pass
ac20	5600	Ant1	9.74	0.25	9.99	24	Pass
ac20	5700	Ant1	8.53	0.36	8.89	24	Pass
ac40	5190	Ant1	13.93	0.67	14.6	24	Pass
ac40	5230	Ant1	14.12	0.48	14.6	24	Pass
ac40	5270	Ant1	14.03	0.46	14.49	24	Pass

ac40	5310	Ant1	12.68	0.49	13.17	24	Pass
ac40	5510	Ant1	11.12	0.47	11.59	24	Pass
ac40	5670	Ant1	8	0.51	8.51	24	Pass
ax20	5180	Ant1	12.97	0.28	13.25	24	Pass
ax20	5200	Ant1	13.59	0.3	13.89	24	Pass
ax20	5240	Ant1	13.6	0.28	13.88	24	Pass
ax20	5260	Ant1	13.55	0.32	13.87	24	Pass
ax20	5280	Ant1	13.5	0.32	13.82	24	Pass
ax20	5320	Ant1	12.05	0.33	12.38	24	Pass
ax20	5500	Ant1	12.41	0.32	12.73	24	Pass
ax20	5600	Ant1	10.9	0.39	11.29	24	Pass
ax20	5700	Ant1	9.63	0.34	9.97	24	Pass
ax40	5190	Ant1	13.29	0.61	13.9	24	Pass
ax40	5230	Ant1	13.28	0.58	13.86	24	Pass
ax40	5270	Ant1	13.68	0.6	14.28	24	Pass
ax40	5310	Ant1	12.39	0.83	13.22	24	Pass
ax40	5510	Ant1	12.26	0.61	12.87	24	Pass
ax40	5670	Ant1	9.03	0.58	9.61	24	Pass

3 -26dB Bandwidth

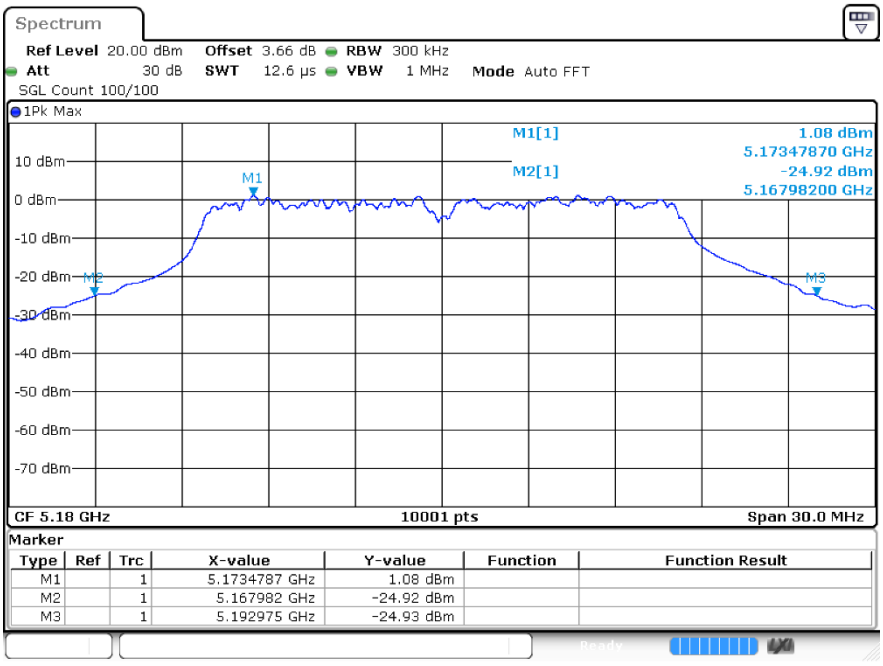
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	24.993	0.5	Pass
a	5200	Ant1	23.424	0.5	Pass
a	5240	Ant1	24.204	0.5	Pass
a	5260	Ant1	21.951	0.5	Pass
a	5280	Ant1	24.795	0.5	Pass
a	5320	Ant1	24.72	0.5	Pass
a	5500	Ant1	23.274	0.5	Pass
a	5600	Ant1	23.928	0.5	Pass
a	5700	Ant1	23.643	0.5	Pass
n20	5180	Ant1	24.264	0.5	Pass
n20	5200	Ant1	24.582	0.5	Pass
n20	5240	Ant1	24.798	0.5	Pass
n20	5280	Ant1	24.474	0.5	Pass
n20	5320	Ant1	25.233	0.5	Pass
n20	5500	Ant1	24.135	0.5	Pass
n20	5600	Ant1	25.497	0.5	Pass
n20	5700	Ant1	24.198	0.5	Pass
n40	5190	Ant1	42.66	0.5	Pass
n40	5230	Ant1	44.028	0.5	Pass
n40	5270	Ant1	43.314	0.5	Pass
n40	5310	Ant1	44.154	0.5	Pass
n40	5510	Ant1	43.206	0.5	Pass
n40	5670	Ant1	42.672	0.5	Pass
ac20	5180	Ant1	25.209	0.5	Pass
ac20	5200	Ant1	24.954	0.5	Pass
ac20	5240	Ant1	25.29	0.5	Pass
ac20	5260	Ant1	24.501	0.5	Pass
ac20	5280	Ant1	25.791	0.5	Pass
ac20	5320	Ant1	23.727	0.5	Pass
ac20	5500	Ant1	25.05	0.5	Pass
ac20	5600	Ant1	24.555	0.5	Pass
ac20	5700	Ant1	24.603	0.5	Pass
ac40	5190	Ant1	43.728	0.5	Pass
ac40	5230	Ant1	40.938	0.5	Pass
ac40	5270	Ant1	41.934	0.5	Pass
ac40	5310	Ant1	44.478	0.5	Pass
ac40	5510	Ant1	43.722	0.5	Pass

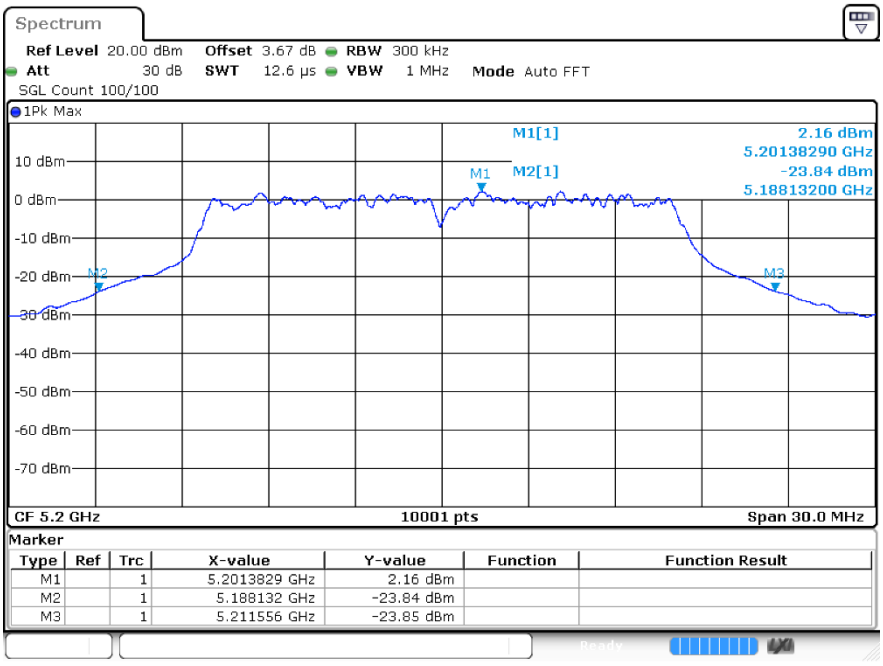
ac40	5670	Ant1	42.378	0.5	Pass
ax20	5180	Ant1	25.359	0.5	Pass
ax20	5200	Ant1	24.222	0.5	Pass
ax20	5240	Ant1	24.273	0.5	Pass
ax20	5260	Ant1	23.82	0.5	Pass
ax20	5280	Ant1	24.828	0.5	Pass
ax20	5320	Ant1	24.033	0.5	Pass
ax20	5500	Ant1	22.476	0.5	Pass
ax20	5600	Ant1	25.653	0.5	Pass
ax20	5700	Ant1	24.627	0.5	Pass
ax40	5190	Ant1	42.384	0.5	Pass
ax40	5230	Ant1	41.958	0.5	Pass
ax40	5270	Ant1	40.734	0.5	Pass
ax40	5310	Ant1	42.618	0.5	Pass
ax40	5510	Ant1	42.162	0.5	Pass
ax40	5670	Ant1	44.334	0.5	Pass

3.2 Test Graphs

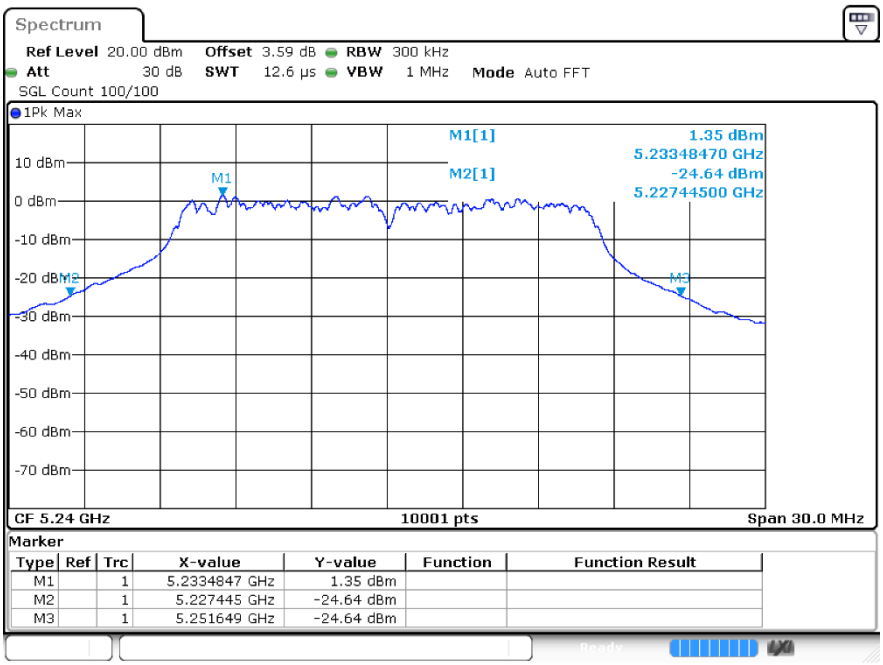
Test Graphs
-26dB Bandwidtha 5180MHz Ant1



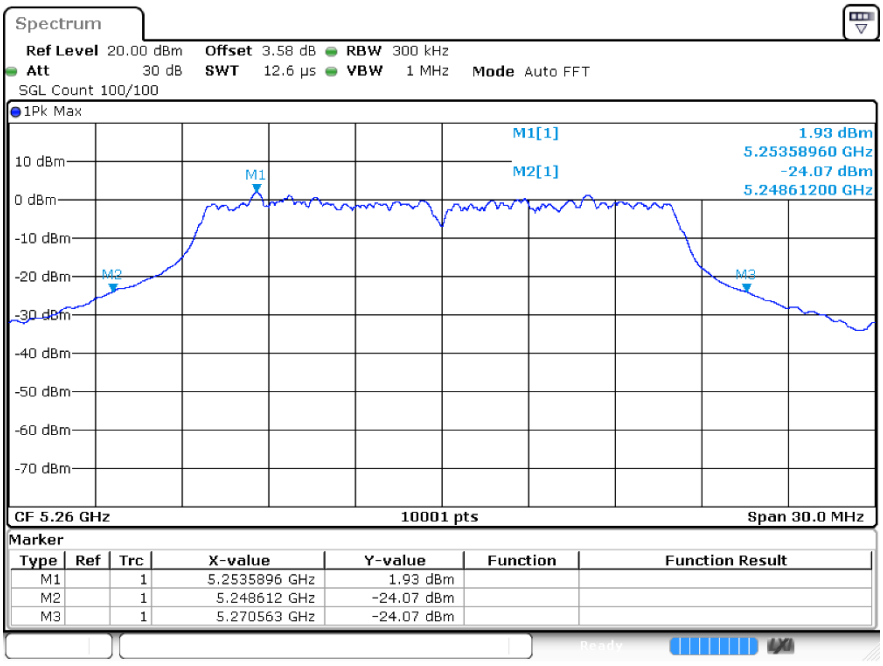
-26dB Bandwidtha 5200MHz Ant1



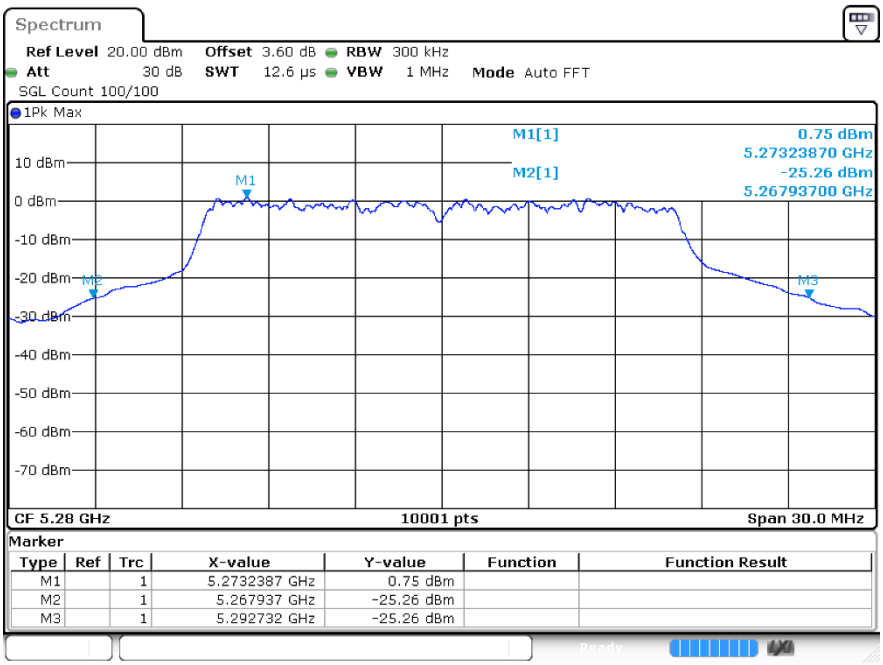
-26dB Bandwidtha 5240MHz Ant1



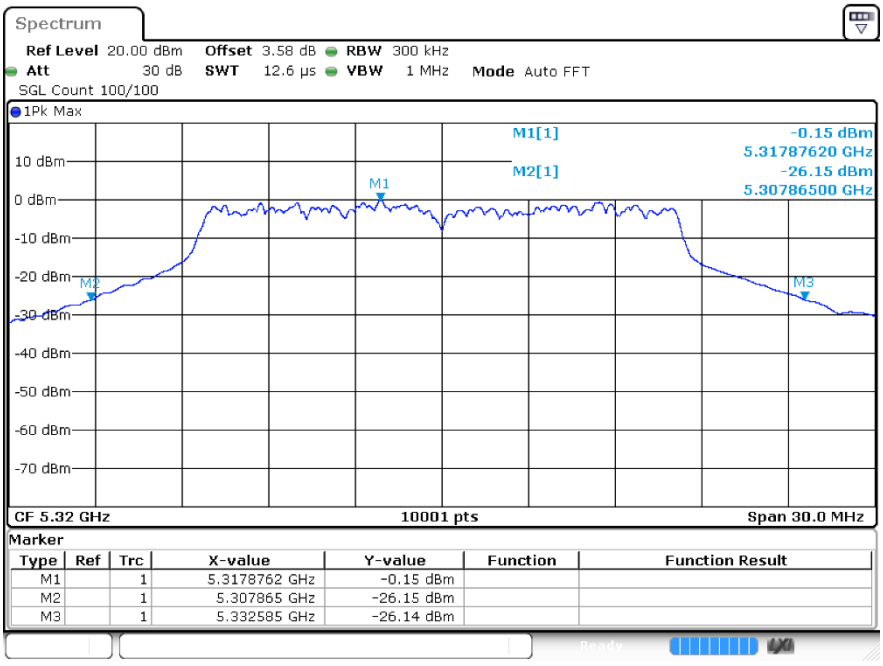
-26dB Bandwidtha 5260MHz Ant1



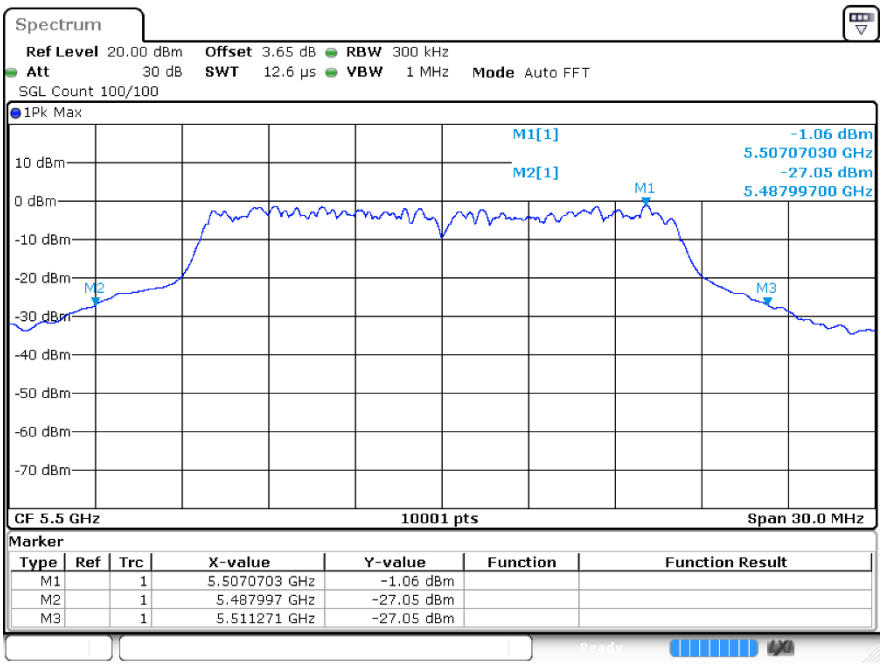
-26dB Bandwidtha 5280MHz Ant1



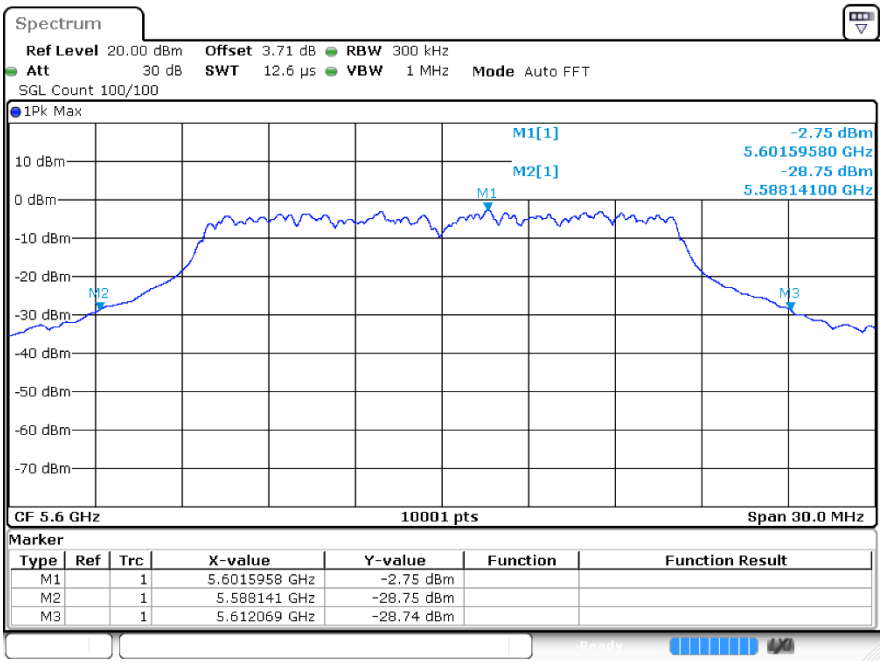
-26dB Bandwidth a 5320MHz Ant1



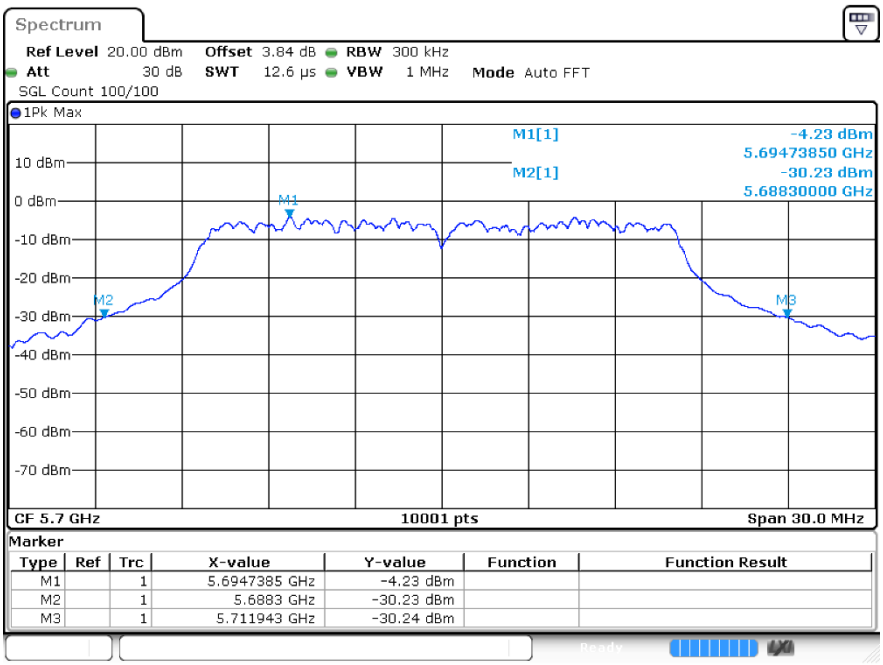
-26dB Bandwidtha 5500MHz Ant1



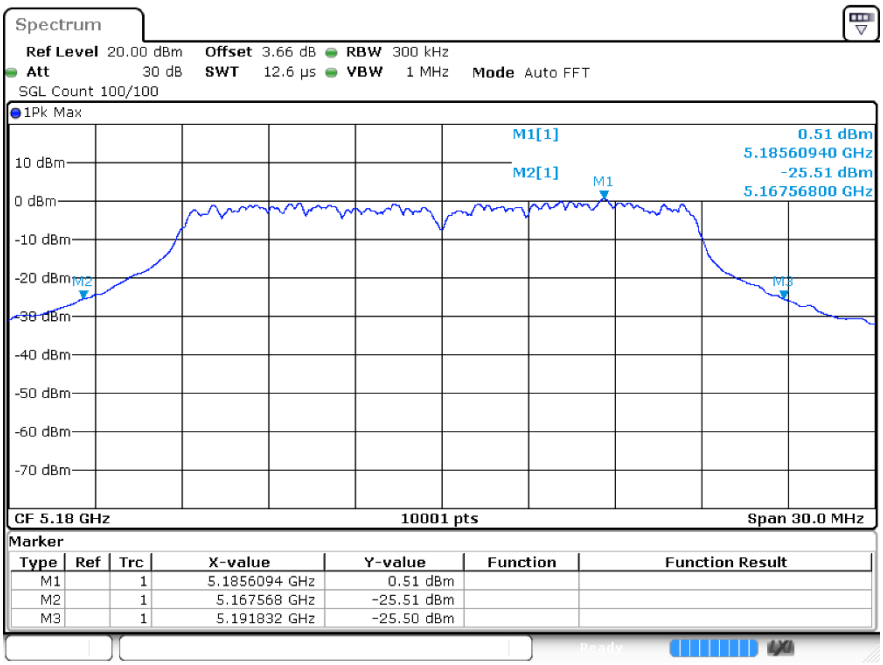
-26dB Bandwidtha 5600MHz Ant1



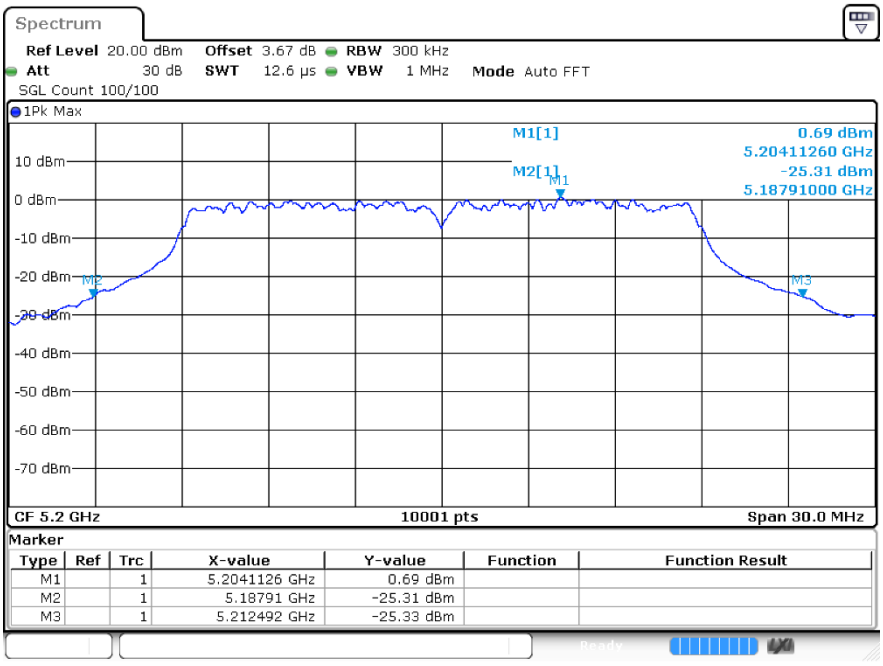
-26dB Bandwidth a 5700MHz Ant1



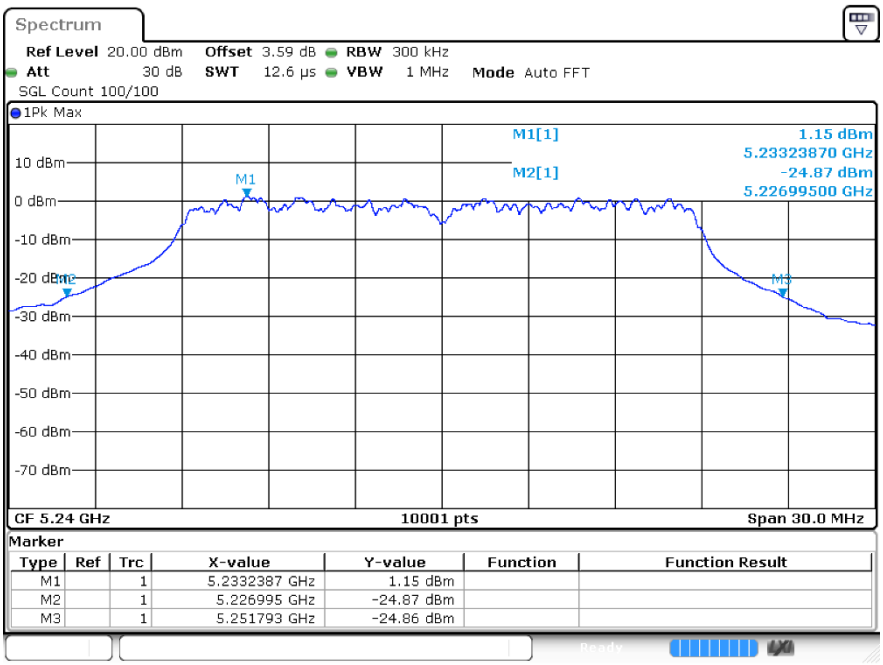
-26dB Bandwidth n20 5180MHz Ant1



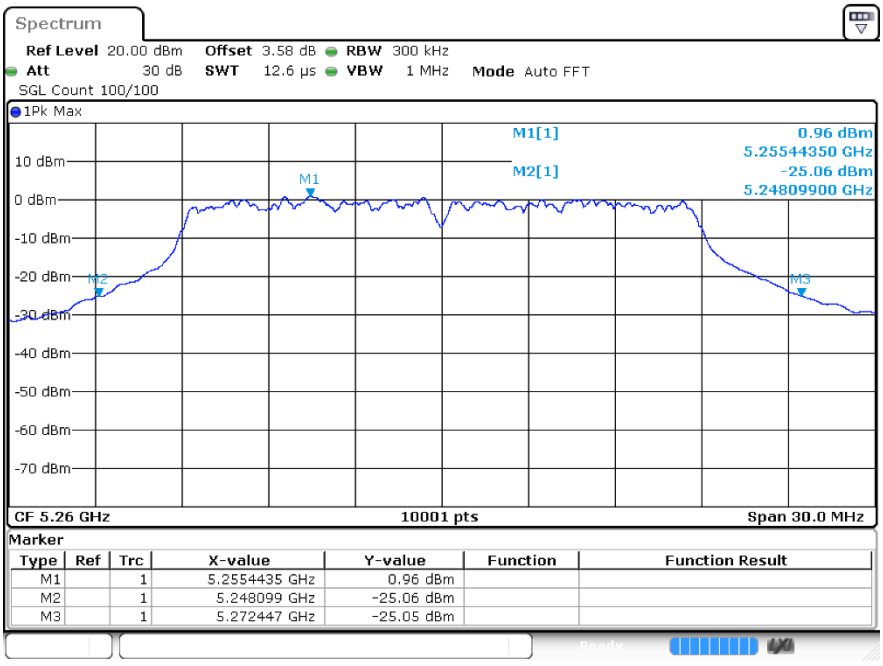
-26dB Bandwidth n20 5200MHz Ant1



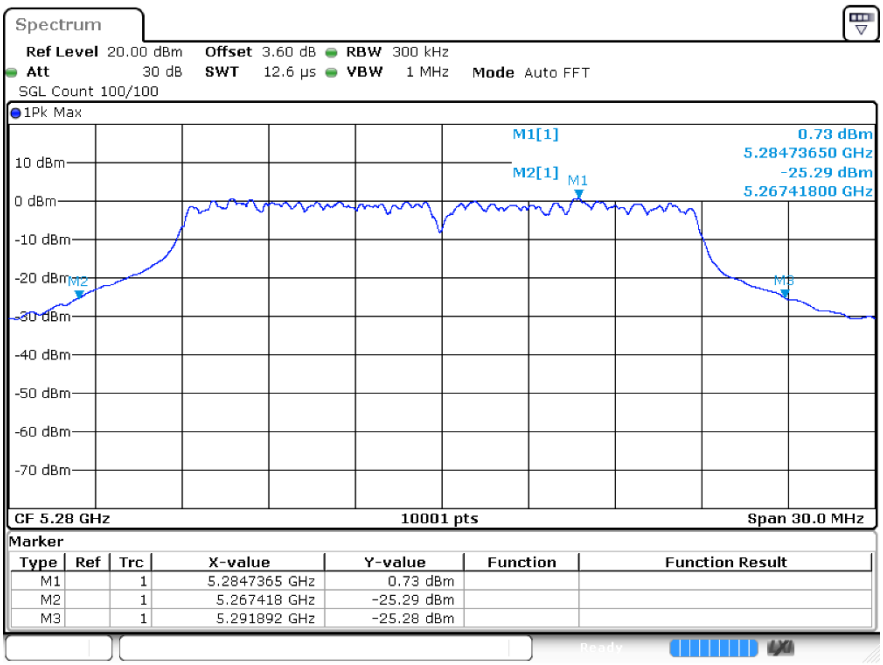
-26dB Bandwidth n20 5240MHz Ant1



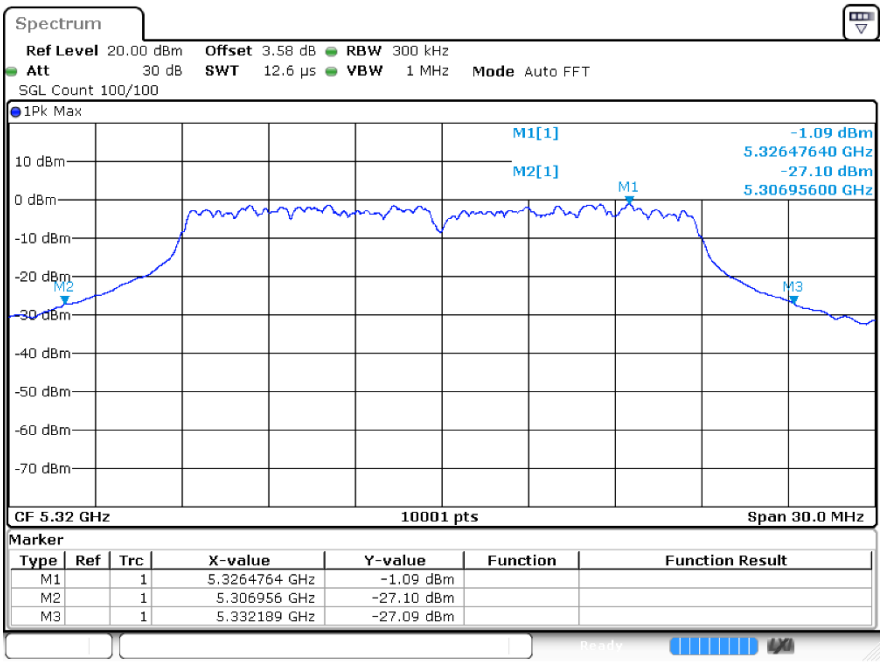
-26dB Bandwidth n20 5260MHz Ant1



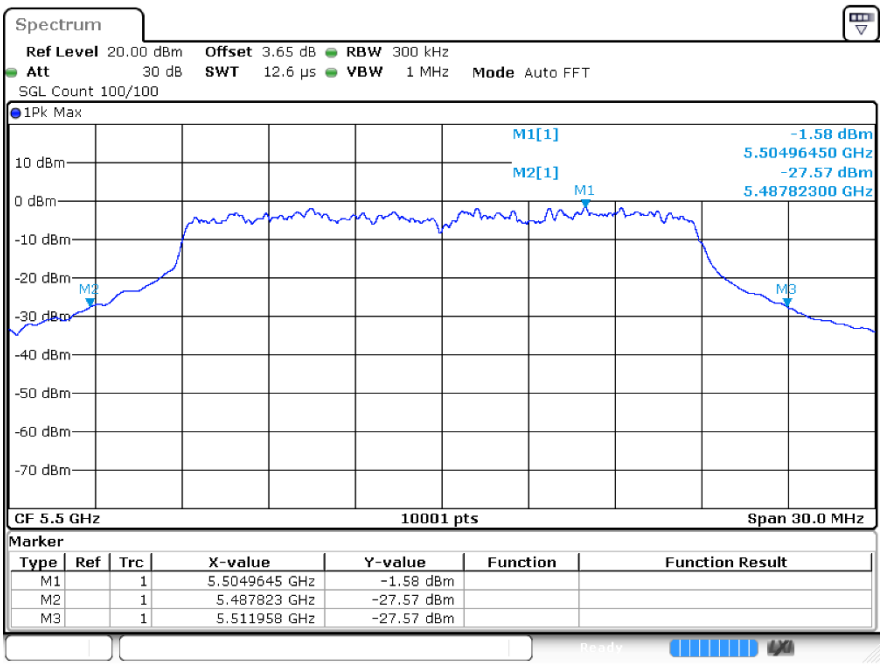
-26dB Bandwidth n20 5280MHz Ant1



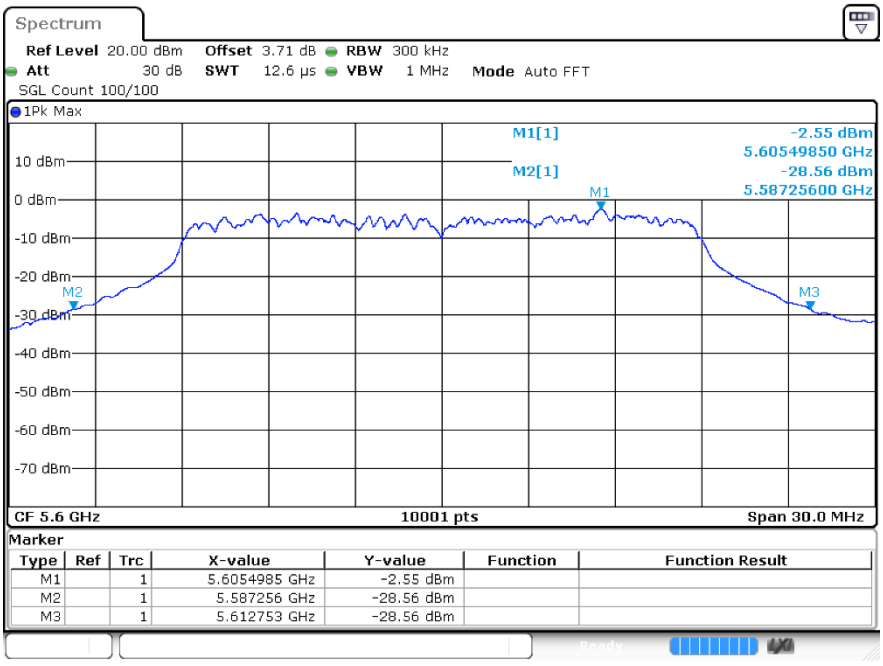
-26dB Bandwidth n20 5320MHz Ant1



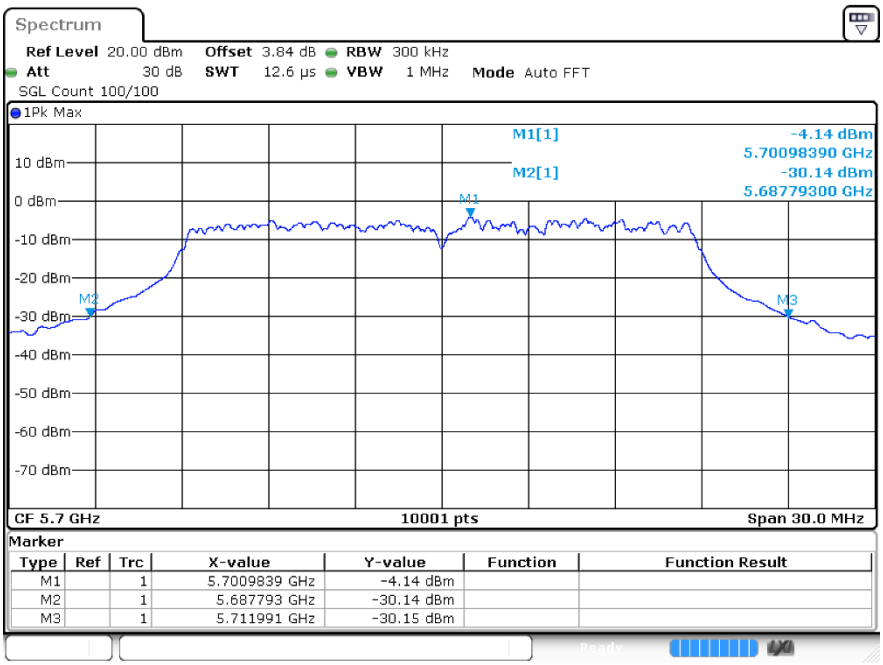
-26dB Bandwidth n20 5500MHz Ant1



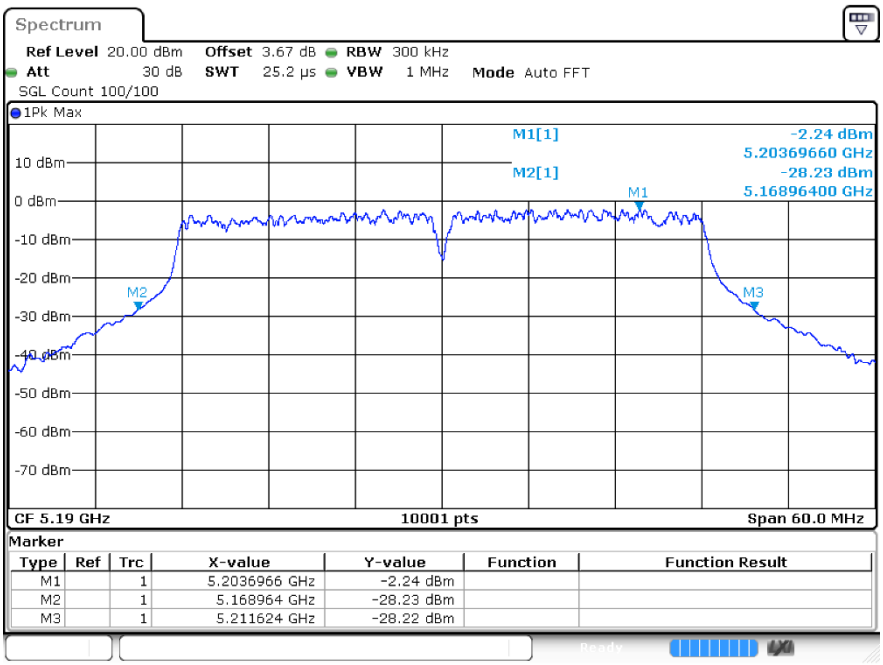
-26dB Bandwidth n20 5600MHz Ant1



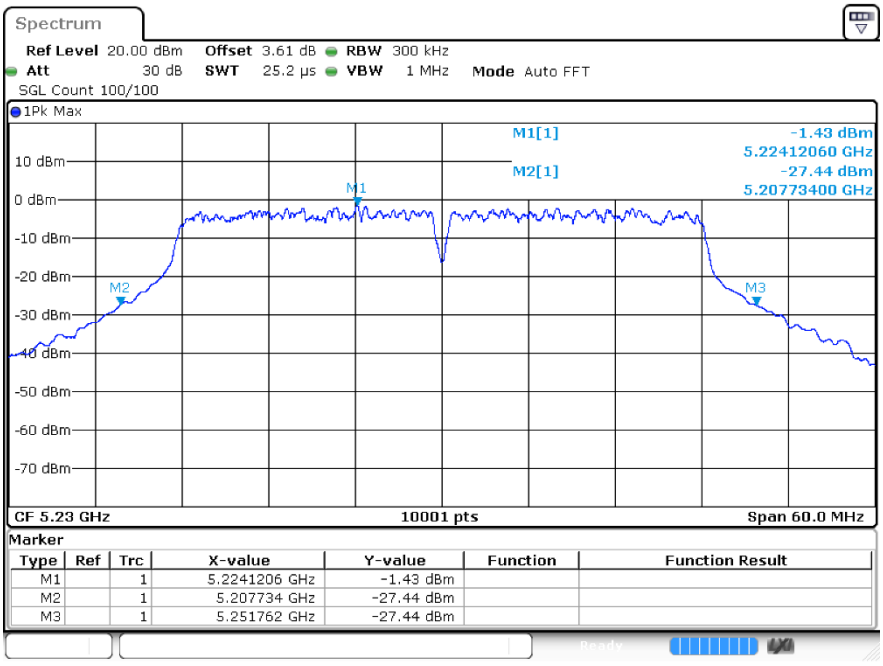
-26dB Bandwidth n20 5700MHz Ant1



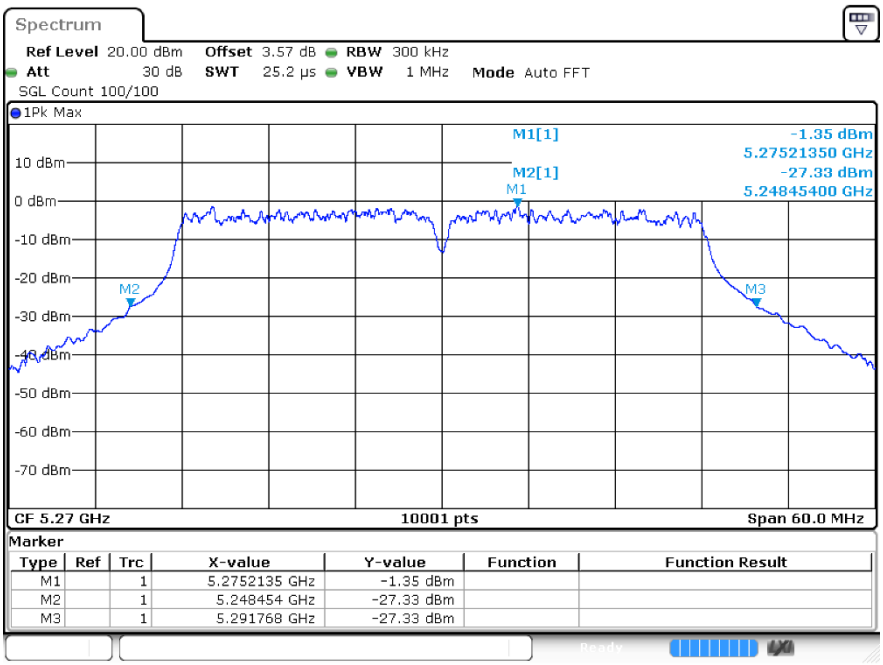
-26dB Bandwidthn40 5190MHz Ant1



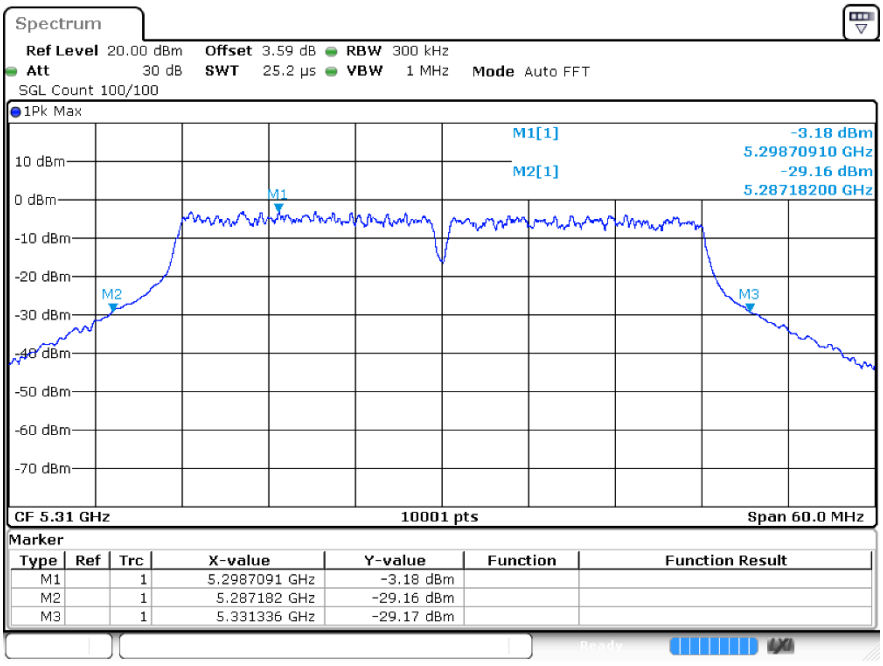
-26dB Bandwidthn40 5230MHz Ant1



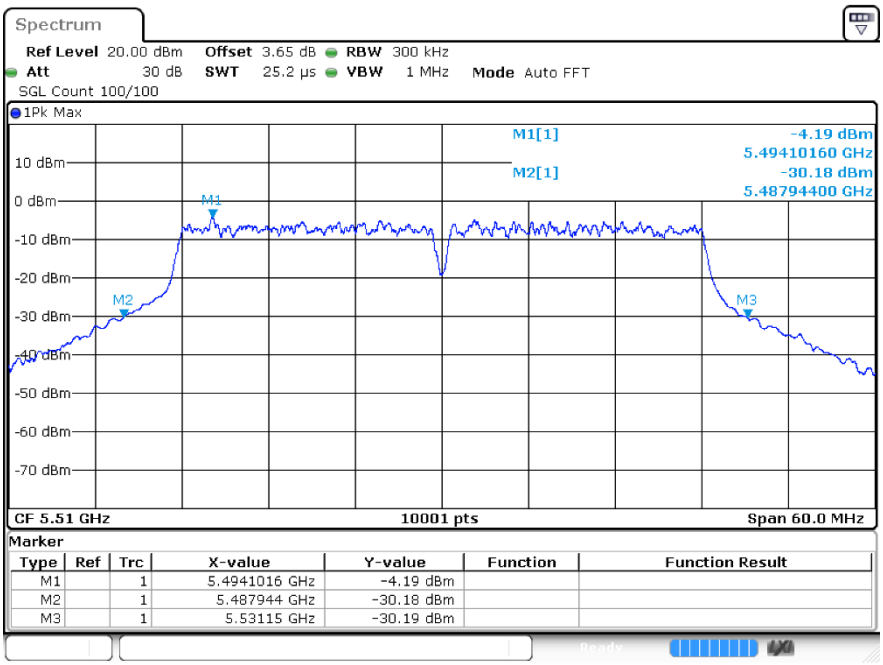
-26dB Bandwidth n40 5270MHz Ant1



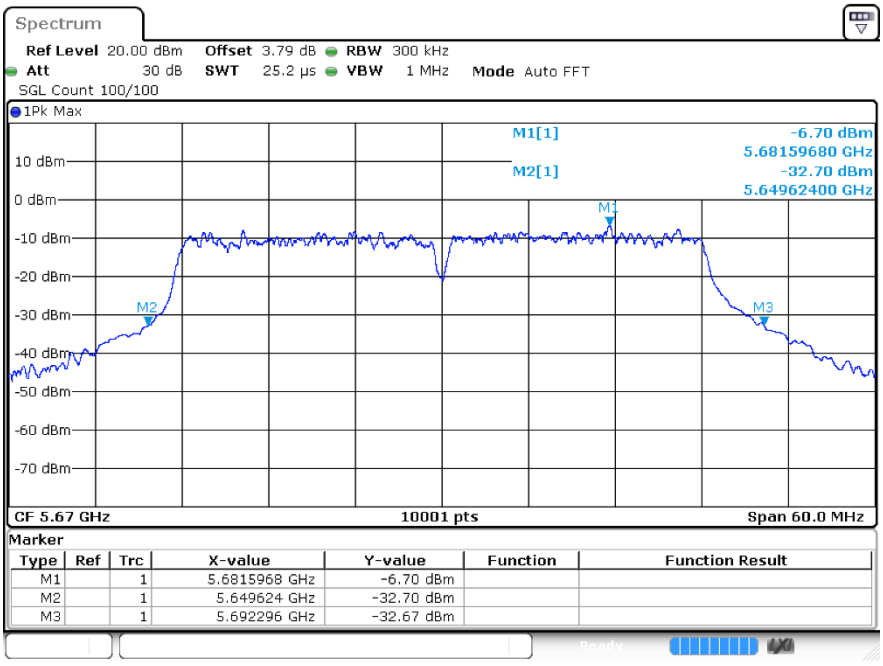
-26dB Bandwidth n40 5310MHz Ant1



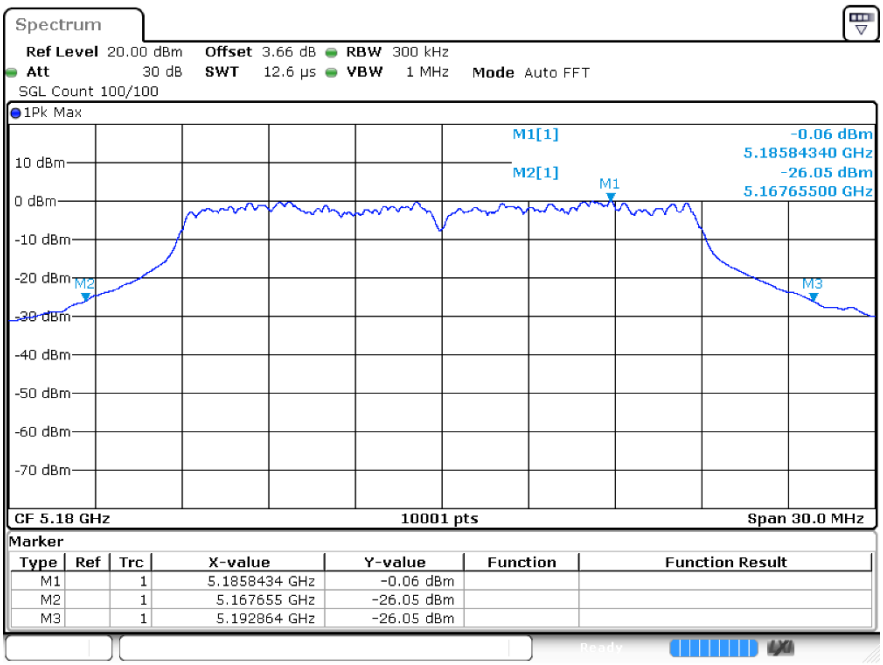
-26dB Bandwidthn40 5510MHz Ant1



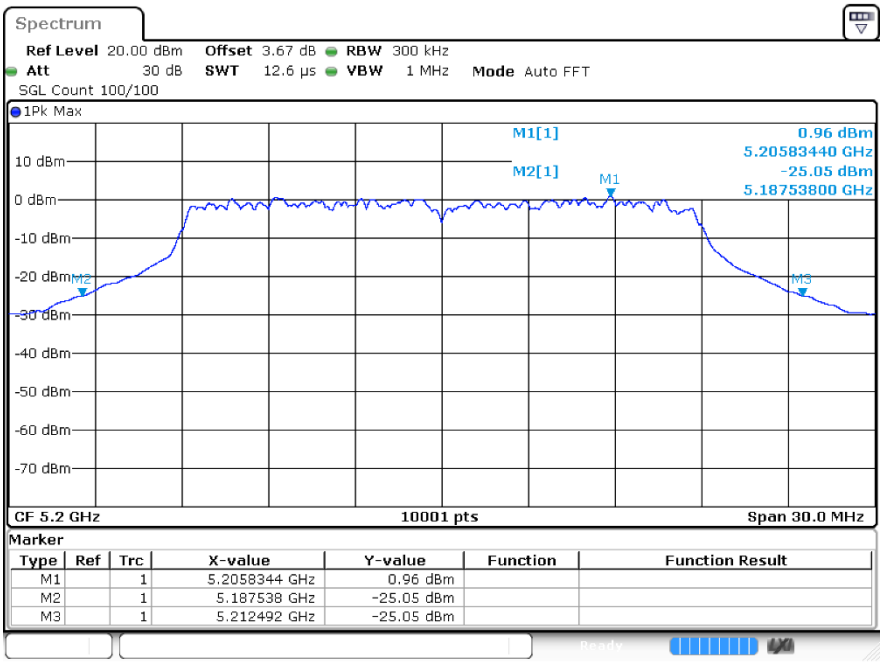
-26dB Bandwidth n40 5670MHz Ant1



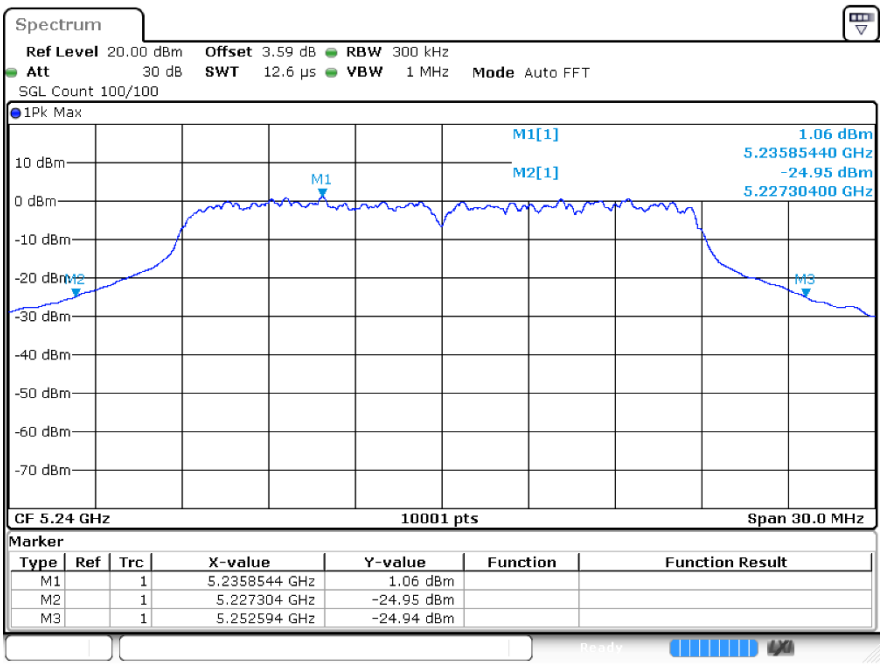
-26dB Bandwidth ac20 5180MHz Ant1



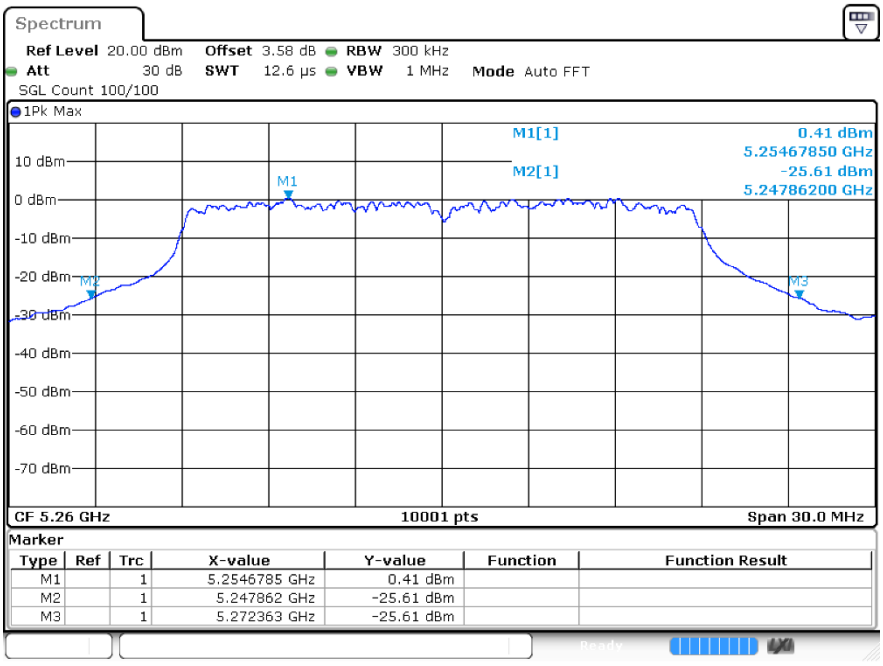
-26dB Bandwidth ac20 5200MHz Ant1



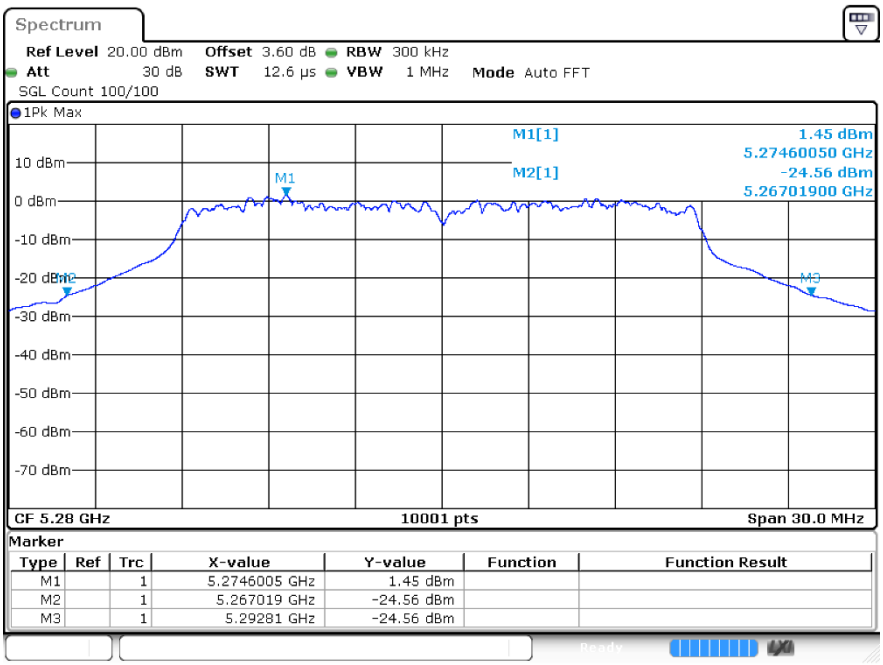
-26dB Bandwidth ac20 5240MHz Ant1



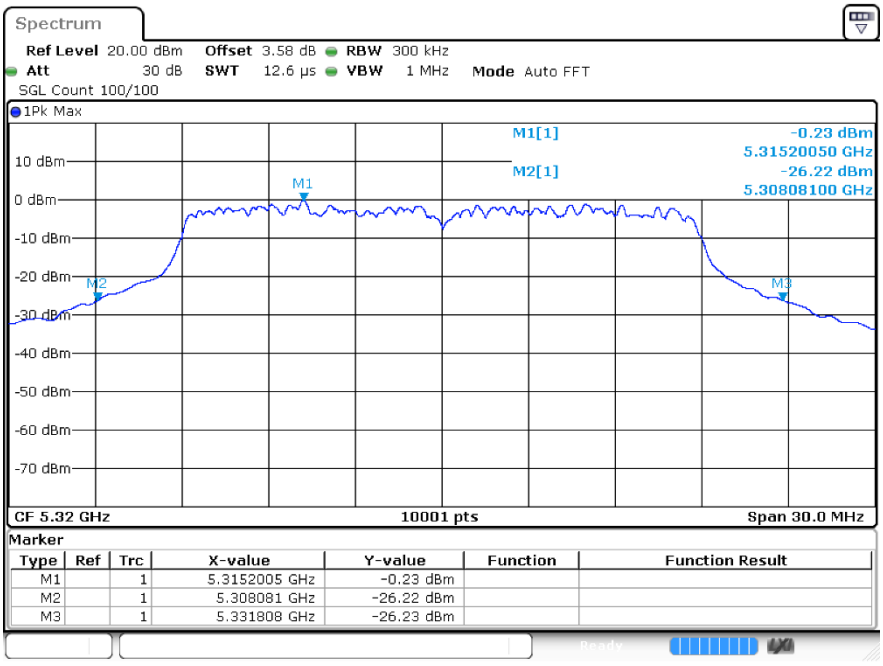
-26dB Bandwidth ac20 5260MHz Ant1



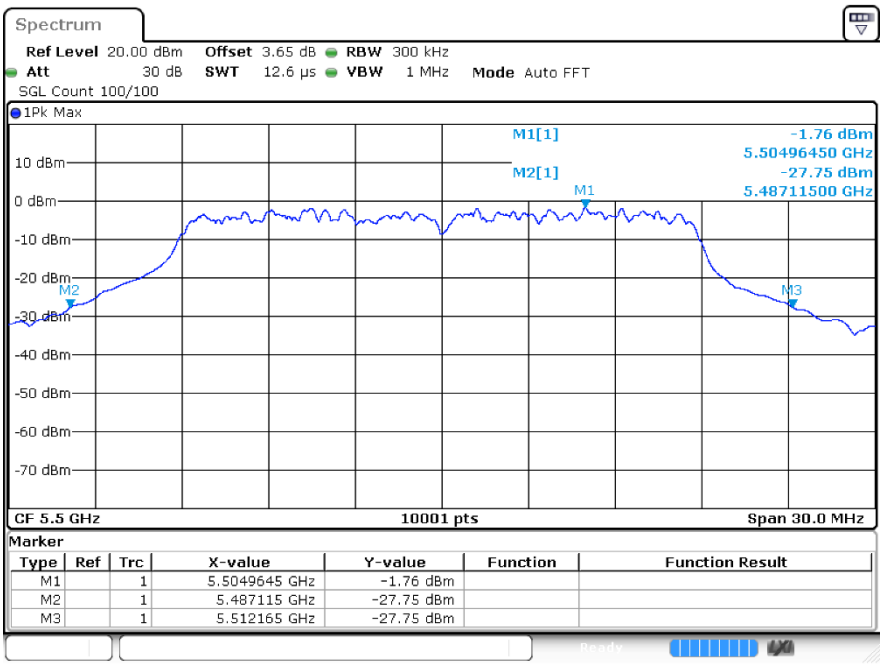
-26dB Bandwidth ac20 5280MHz Ant1



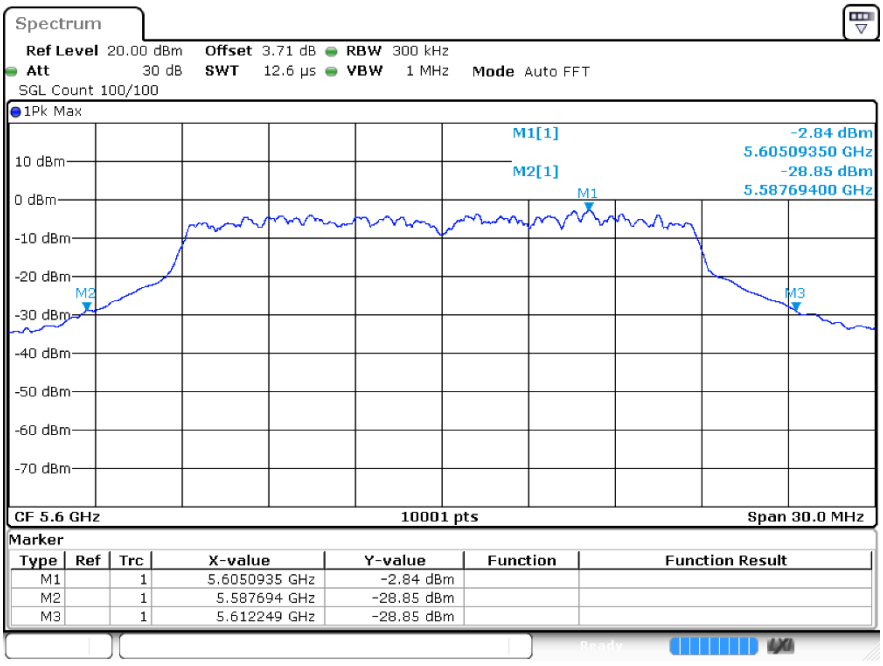
-26dB Bandwidth ac20 5320MHz Ant1



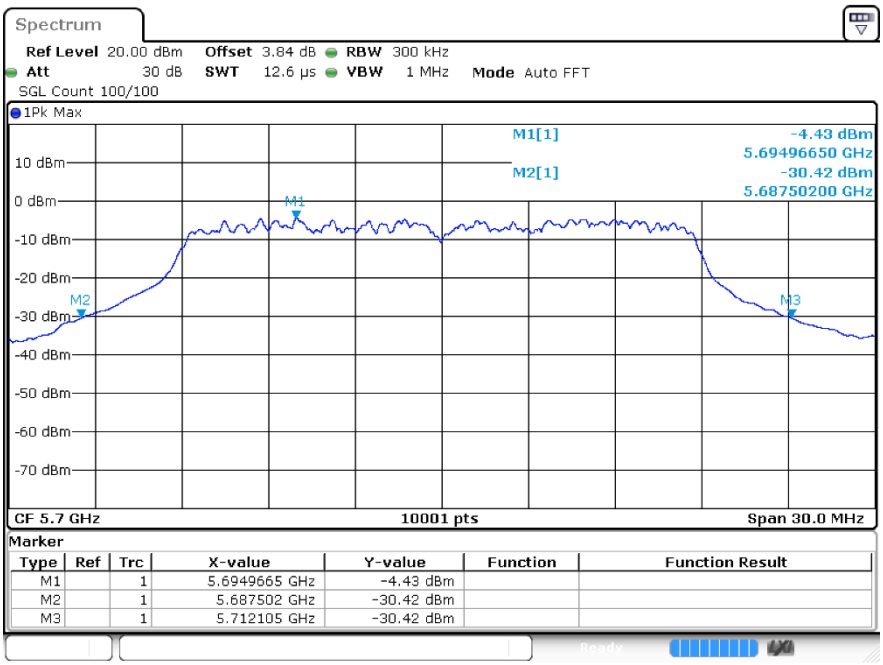
-26dB Bandwidth ac20 5500MHz Ant1



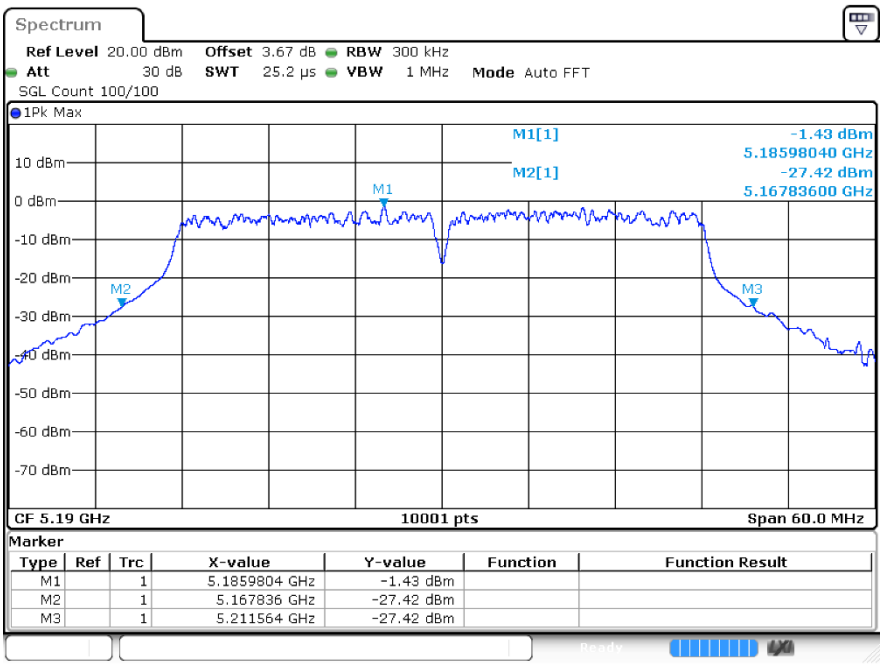
-26dB Bandwidth ac20 5600MHz Ant1



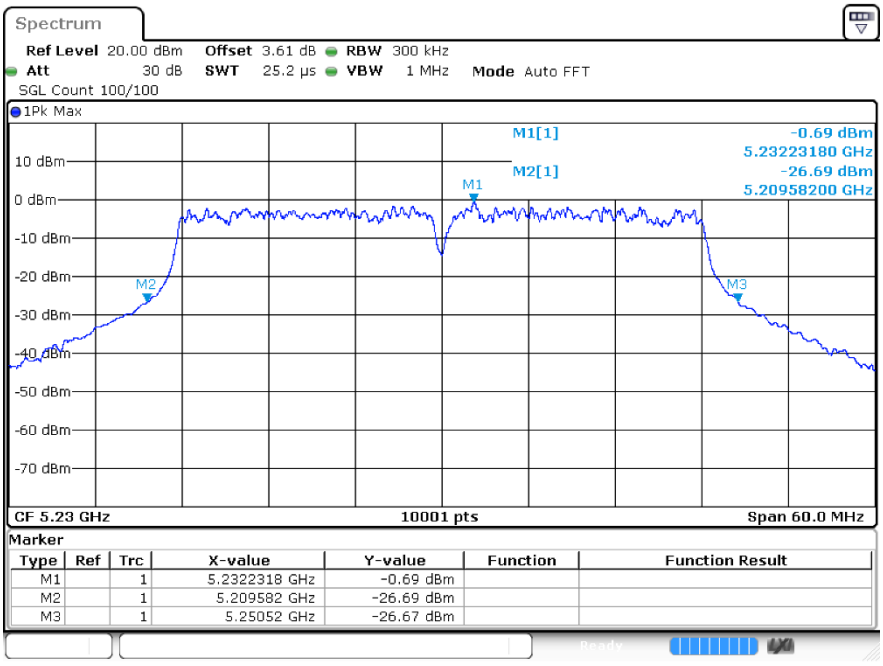
-26dB Bandwidth ac20 5700MHz Ant1



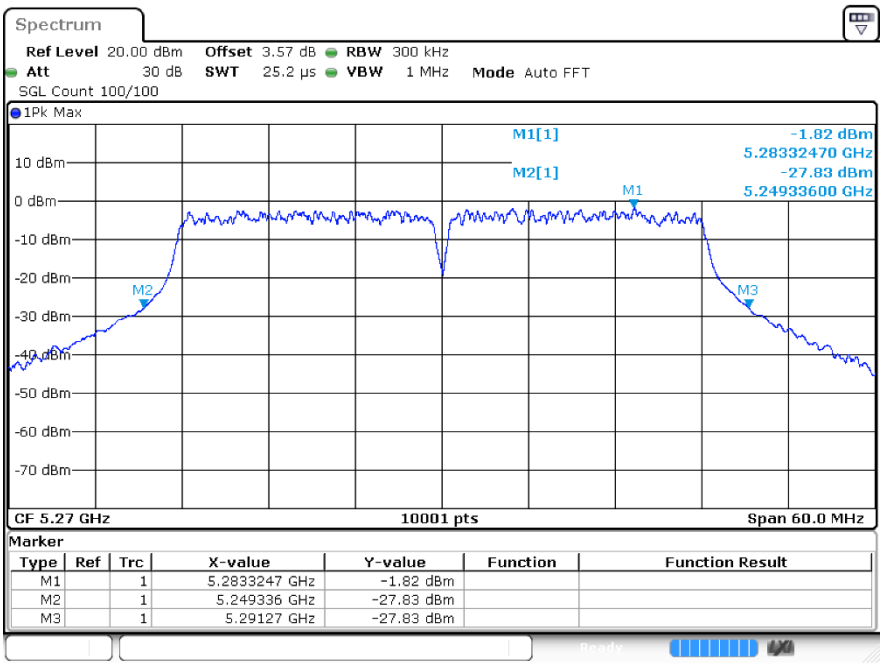
-26dB Bandwidthac40 5190MHz Ant1



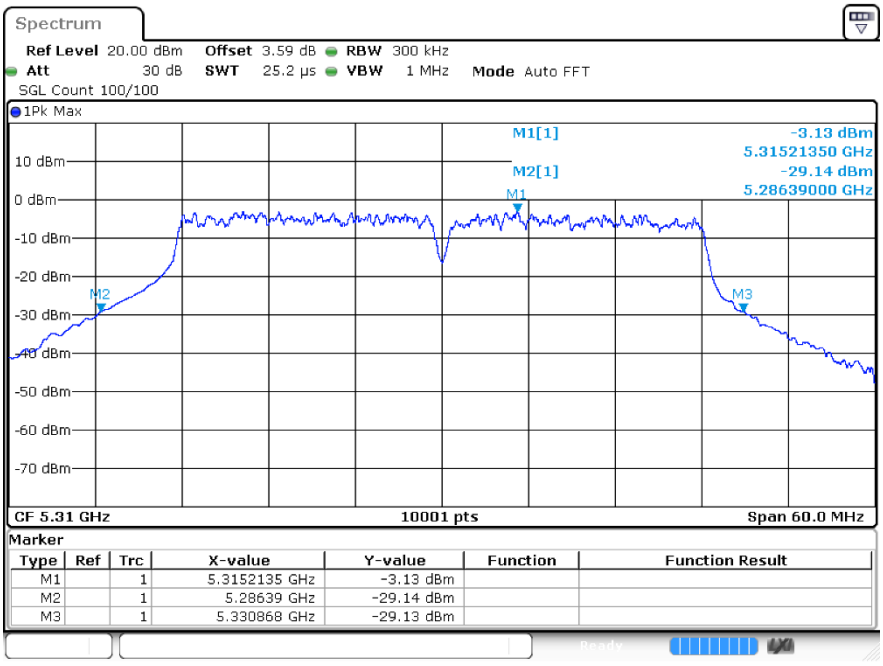
-26dB Bandwidthac40 5230MHz Ant1



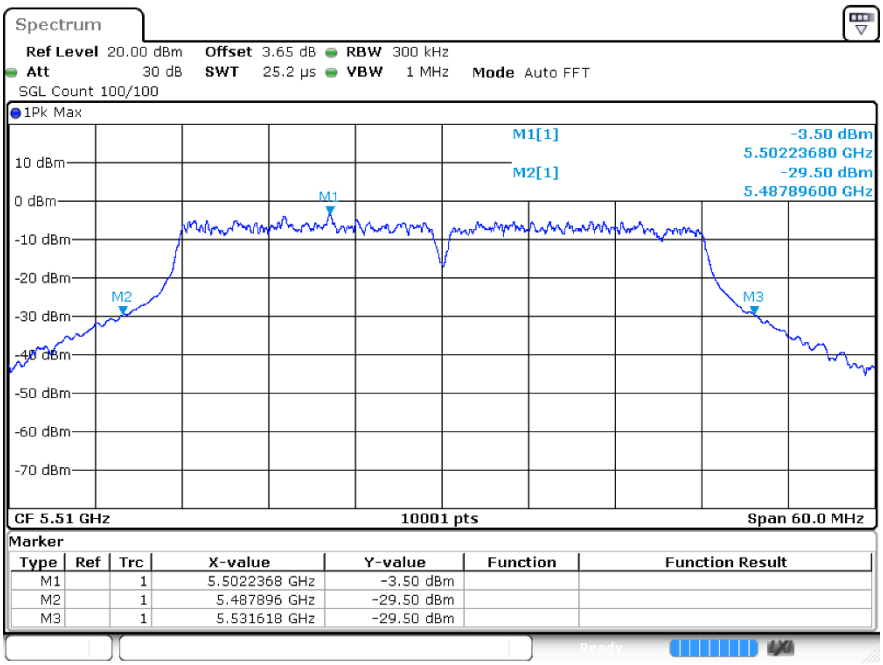
-26dB Bandwidth ac40 5270MHz Ant1



-26dB Bandwidth ac40 5310MHz Ant1



-26dB Bandwidthac40 5510MHz Ant1



-26dB Bandwidth ac40 5670MHz Ant1