Appendix D

RF Test Data for B1-B3WIFI(Conducted Measurement)

Product Name: HyRead Gaze Mini

Trade Mark: Gaze

Test Model: K06N

Environmental Conditions

Temperature:	25.2℃
Relative Humidity:	51.2%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

Contents

Page

COVER PAGE

1 Duty Cycle....3
1.1 Test Result....3
1.2 Test Graphs....5
2 Maximum Conducted Output Power....28
2.1 Test Result....28
3 -26dB Bandwidth....30
3.1 Test Result....30
3.2 Test Graphs....32
4 Occupied Channel Bandwidth....55
4.1 Test Result....55
4.2 Test Graphs....57
5 Maximum Power Spectral Density Level....80
5.1 Test Result....80
5.2 Test Graphs....82
6 Frequency Stability....105
6.1 Test Result....105
7 Conducted RF Spurious Emission....116
7.1 Test Result....116
7.2 Test Graphs....118
8 Restrict Band....141
8.1 Test Result....141
8.2 Test Graphs....146

1 Duty Cycle

1.1 Test Result

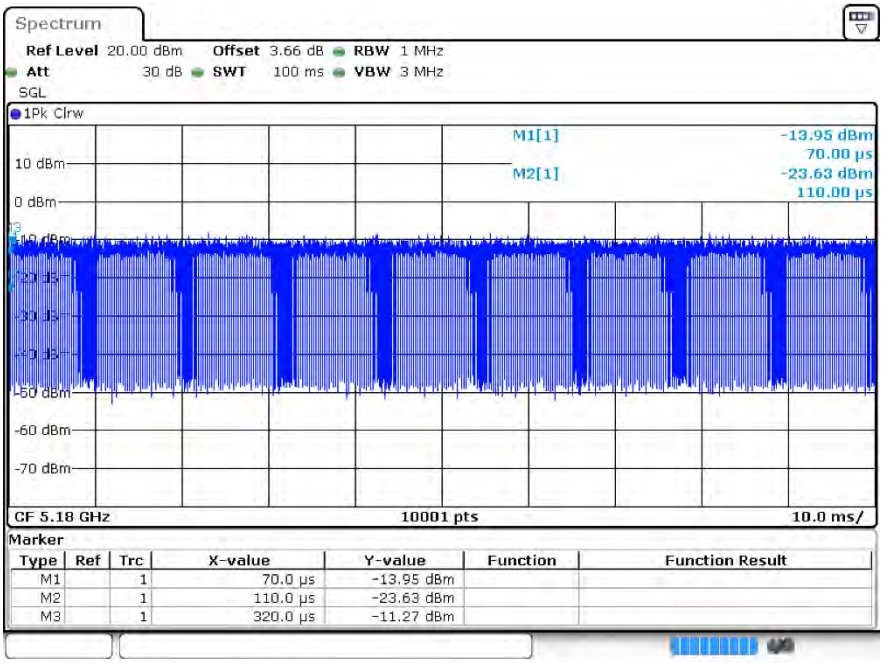
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	86.74	0.62	4.76
a	5200	Ant1	86.73	0.62	4.76
a	5240	Ant1	86.7	0.62	4.76
a	5260	Ant1	86.67	0.62	4.76
a	5280	Ant1	86.73	0.62	4.76
a	5320	Ant1	86.75	0.62	4.76
a	5500	Ant1	86.31	0.62	4.76
a	5600	Ant1	86.68	0.64	4.76
a	5700	Ant1	86.83	0.61	4.76
n20	5180	Ant1	87.32	0.59	4.35
n20	5200	Ant1	87.38	0.59	4.35
n20	5240	Ant1	87.31	0.59	4.35
n20	5260	Ant1	87.33	0.59	4.35
n20	5280	Ant1	87.04	0.6	4.55
n20	5320	Ant1	87.37	0.59	4.35
n20	5500	Ant1	87.32	0.59	4.35
n20	5600	Ant1	86.75	0.62	4.55
n20	5700	Ant1	87.39	0.59	4.35
n40	5190	Ant1	76.73	1.15	4.76
n40	5230	Ant1	76.74	1.15	4.76
n40	5270	Ant1	76.28	1.18	4.76
n40	5310	Ant1	76.7	1.15	4.76
n40	5510	Ant1	76.18	1.18	4.76
n40	5670	Ant1	76.77	1.15	4.76
ac20	5180	Ant1	86.94	0.61	4.55
ac20	5200	Ant1	86.92	0.61	4.35
ac20	5240	Ant1	86.92	0.61	4.55
ac20	5260	Ant1	86.93	0.61	4.55
ac20	5280	Ant1	86.64	0.62	4.55
ac20	5320	Ant1	87	0.6	4.35
ac20	5500	Ant1	86.97	0.61	4.55
ac20	5600	Ant1	86.73	0.62	4.76
ac20	5700	Ant1	87.07	0.6	4.55
ac40	5190	Ant1	75.38	1.23	5.26
ac40	5230	Ant1	75.02	1.25	5
ac40	5310	Ant1	75.01	1.25	5.26
ac40	5270	Ant1	74.7	1.27	5.26

ac40	5510	Ant1	74.36	1.29	5.26
ac40	5670	Ant1	76.3	1.17	5
ac80	5210	Ant1	71.87	1.43	5.88
ac80	5290	Ant1	58.7	2.31	16.67
ac80	5530	Ant1	44.43	3.52	50
ac80	5610	Ant1	44.9	3.48	50

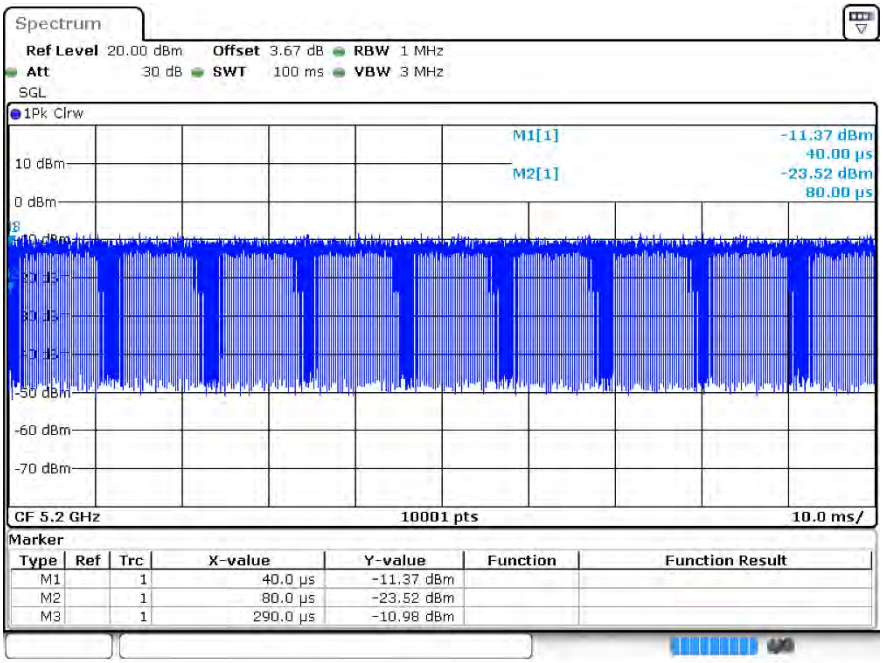
1.2 Test Graphs

Test Graphs

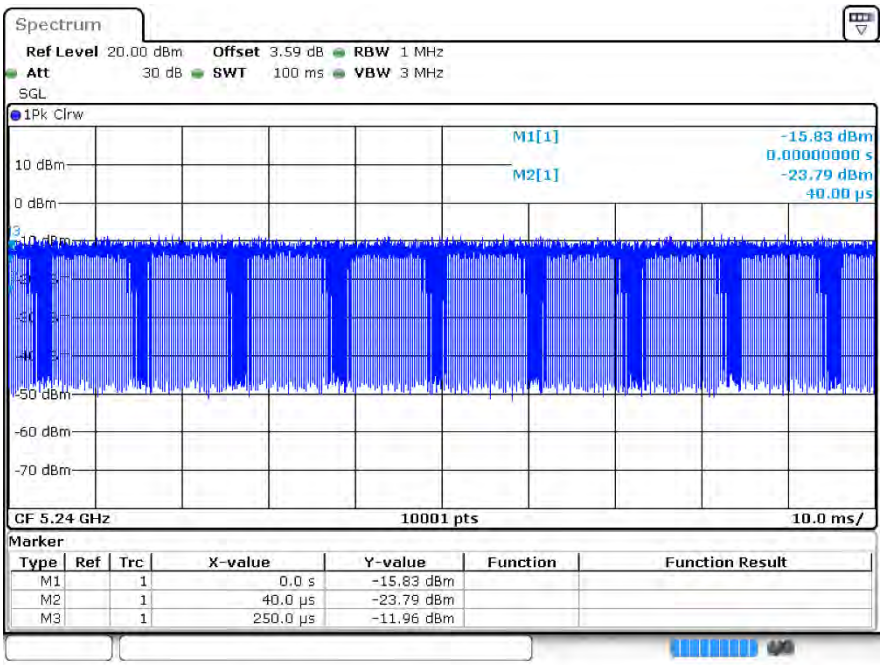
Duty Cyclea 5180MHz Ant1



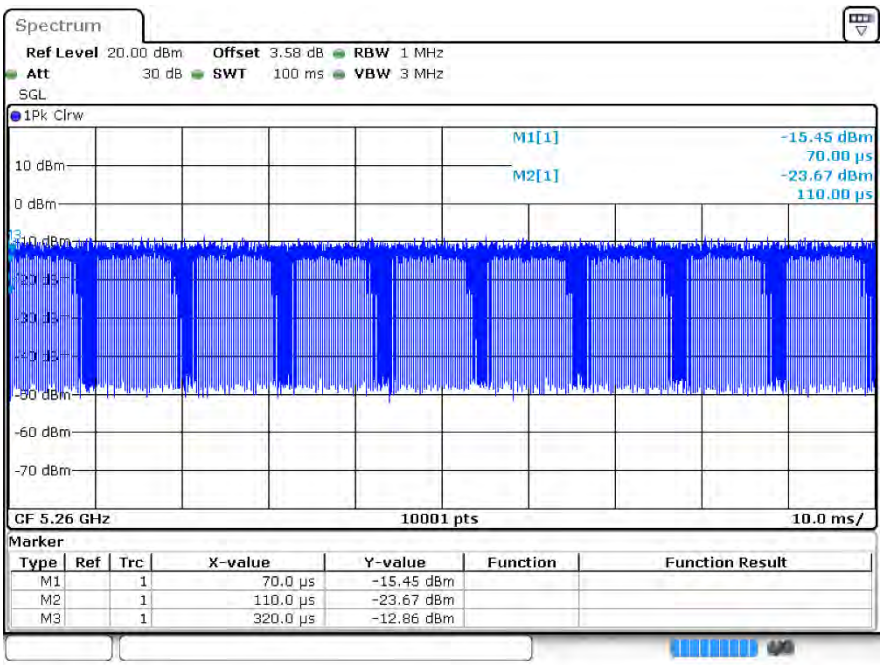
Duty Cycle a 5200MHz Ant1



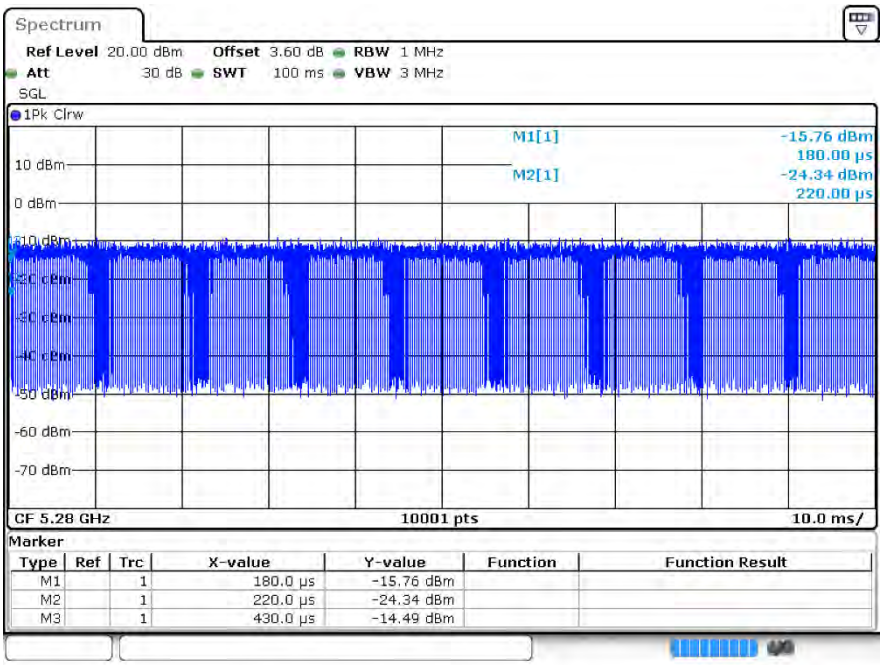
Duty Cyclea 5240MHz Ant1



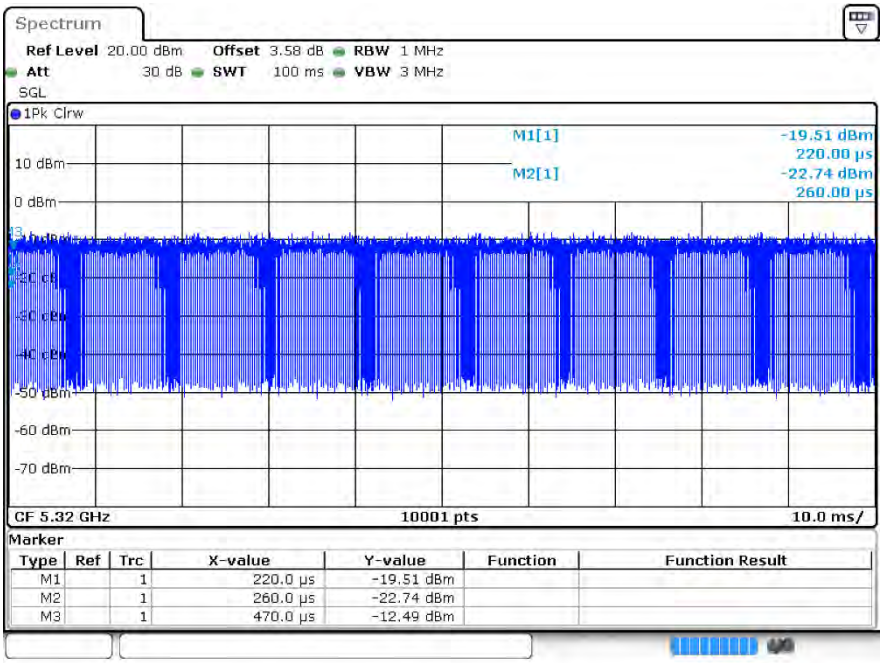
Duty Cycle a 5260MHz Ant1



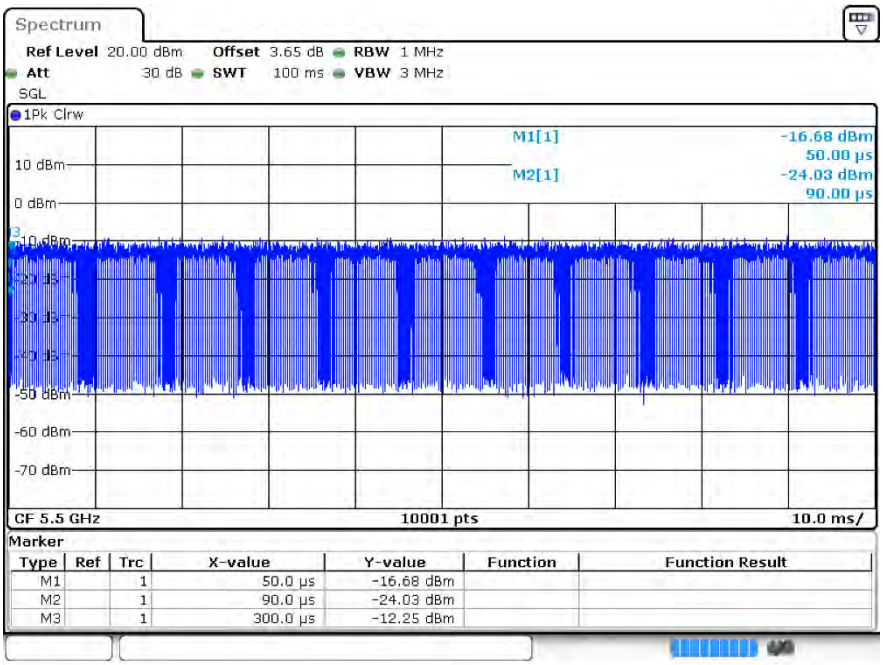
Duty Cyclea 5280MHz Ant1



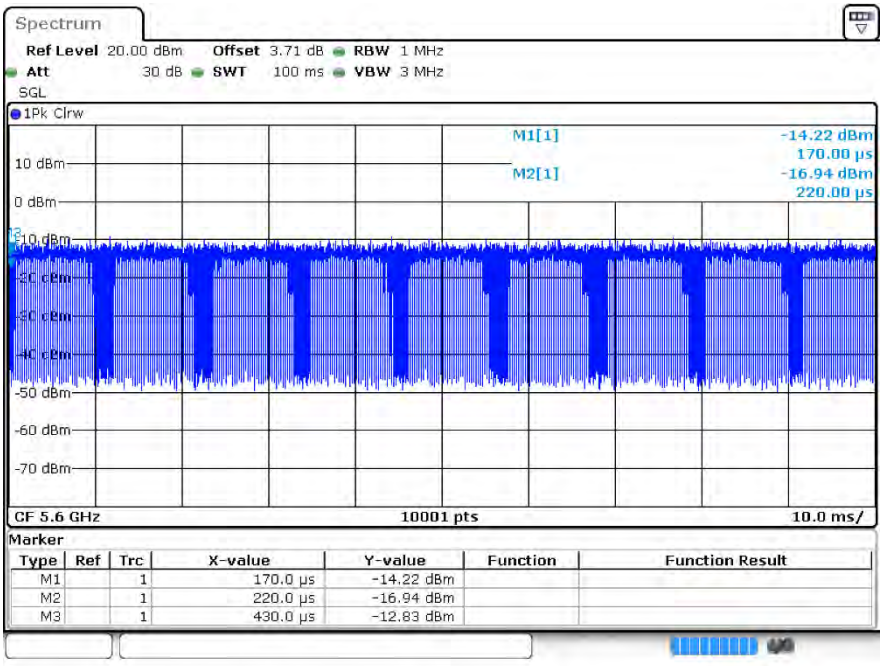
Duty Cycle a 5320MHz Ant1



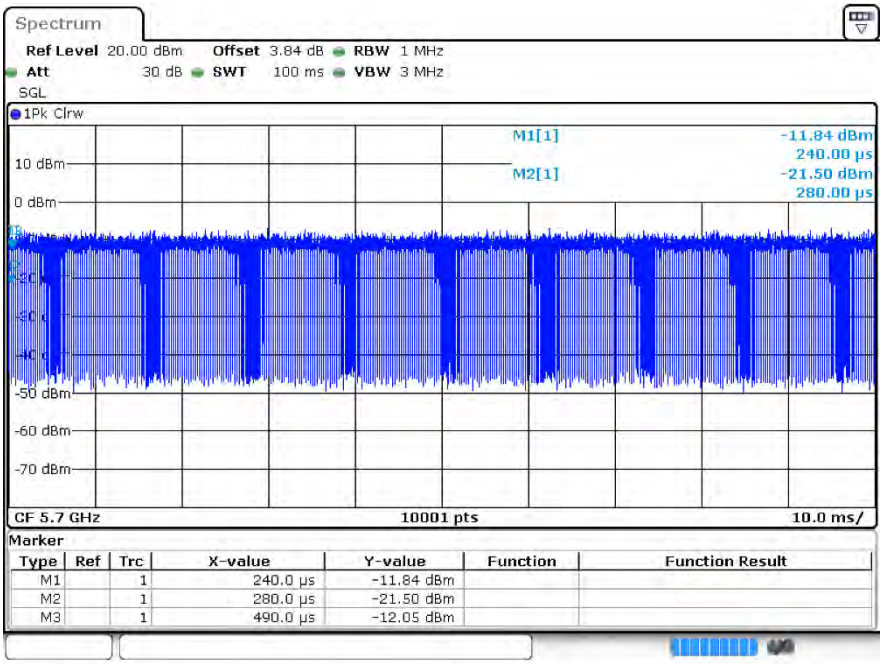
Duty Cyclea 5500MHz Ant1



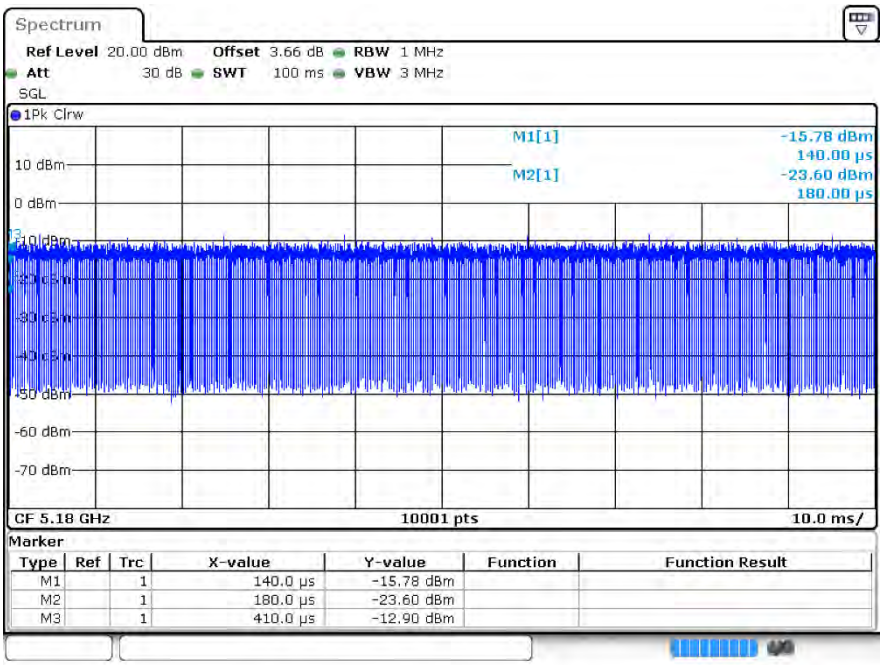
Duty Cycle a 5600MHz Ant1



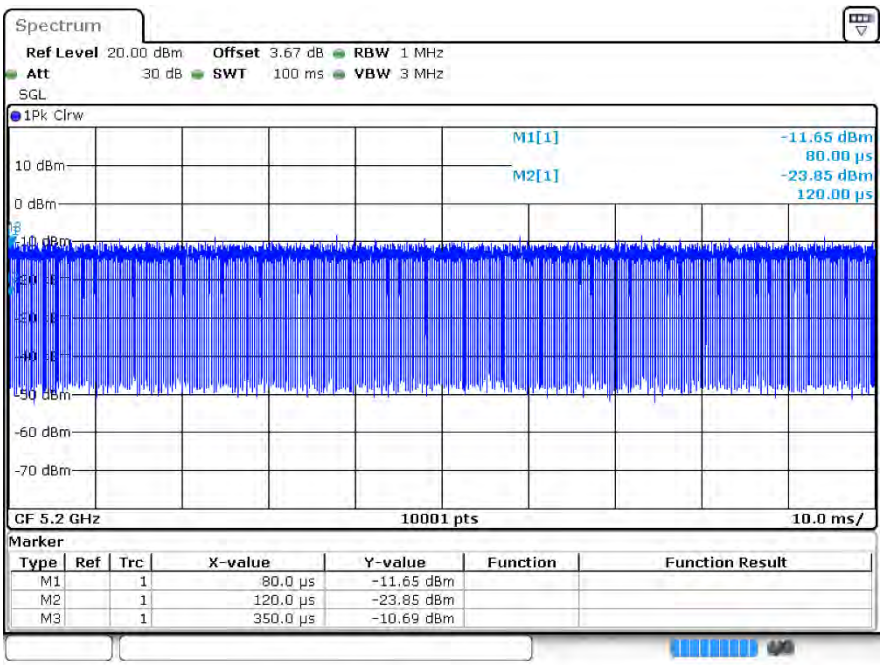
Duty Cycle a 5700MHz Ant1



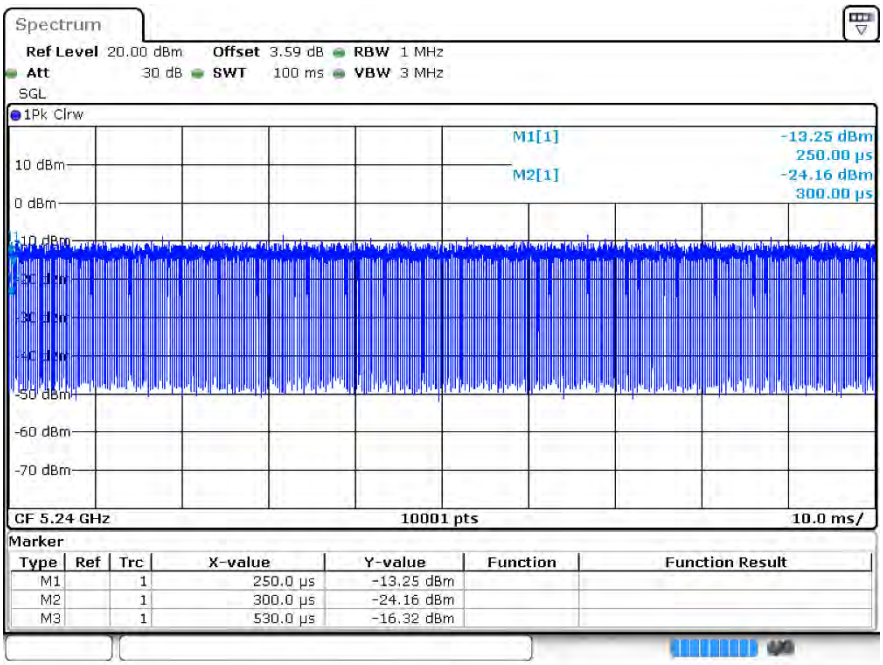
Duty Cycle n20 5180MHz Ant1



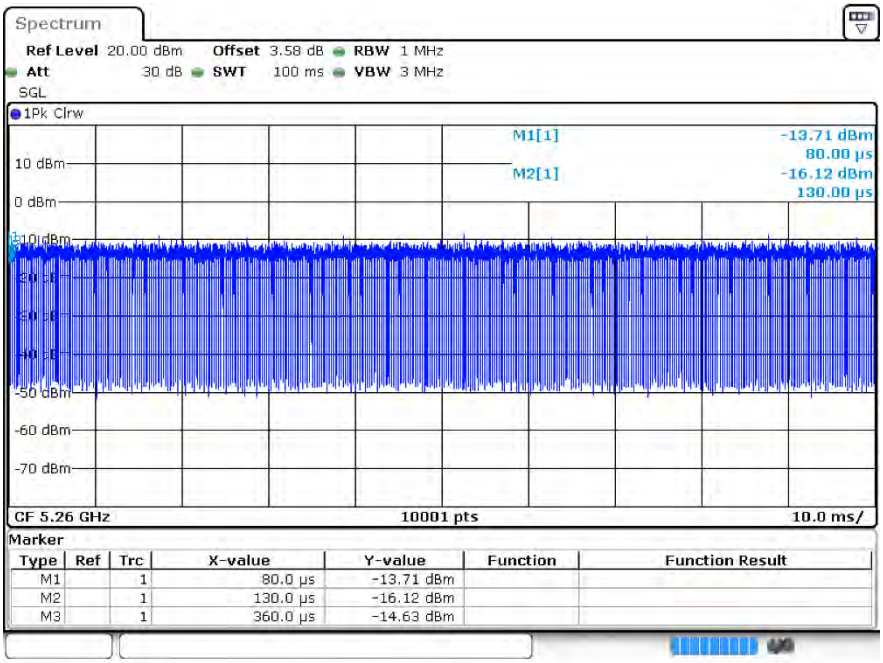
Duty Cycle n20 5200MHz Ant1



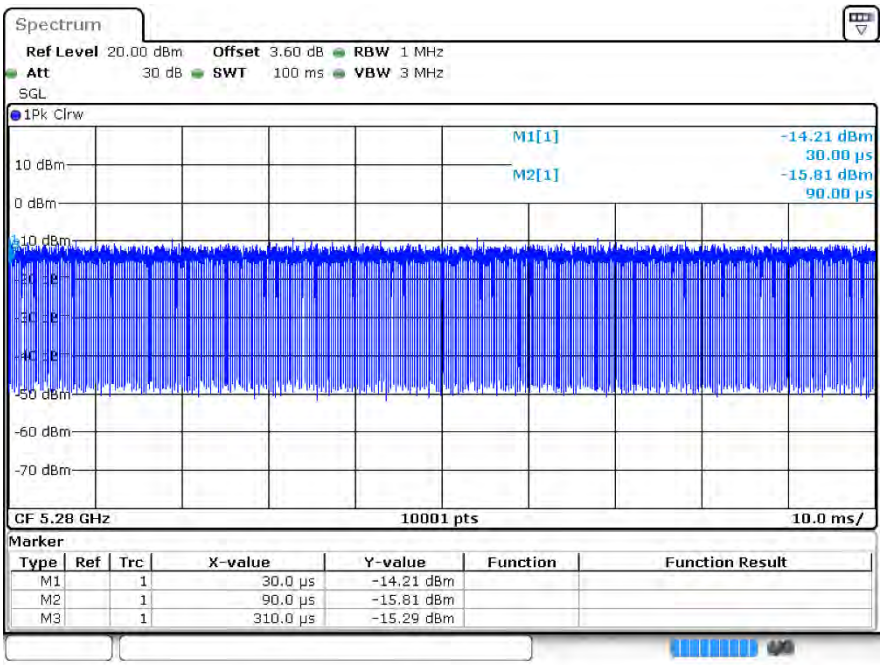
Duty Cycle n20 5240MHz Ant1



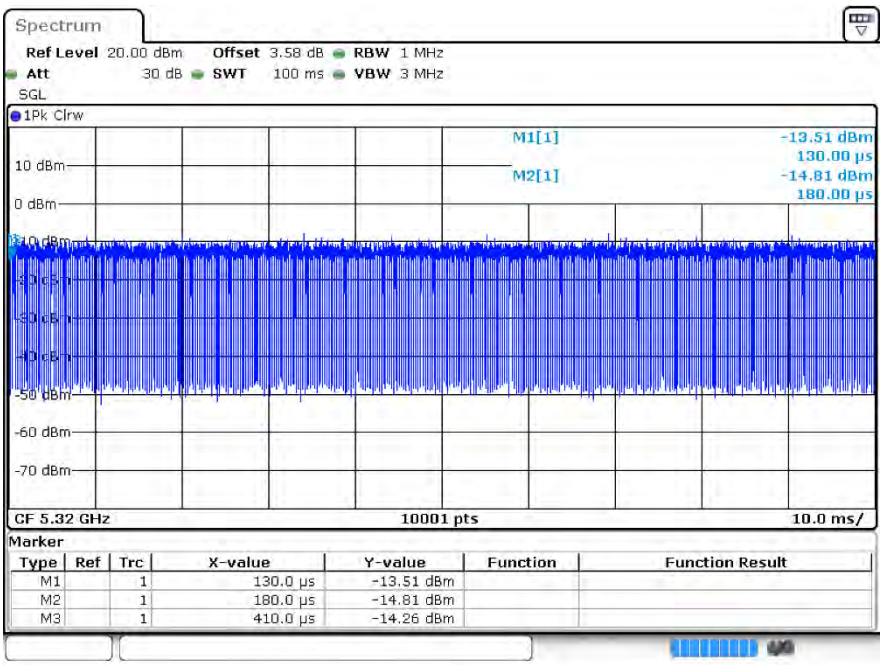
Duty Cycle n20 5260MHz Ant1



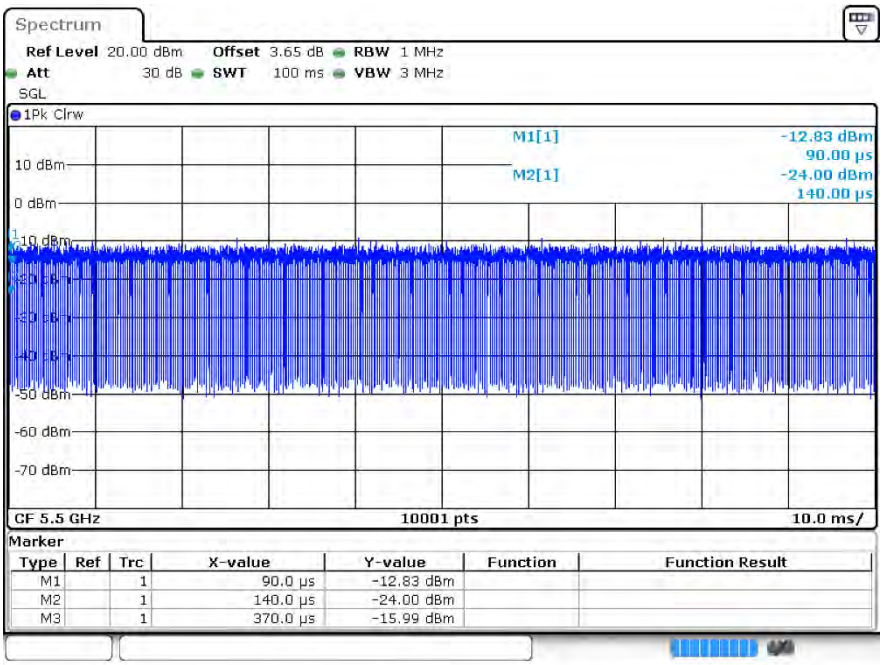
Duty Cycle n20 5280MHz Ant1



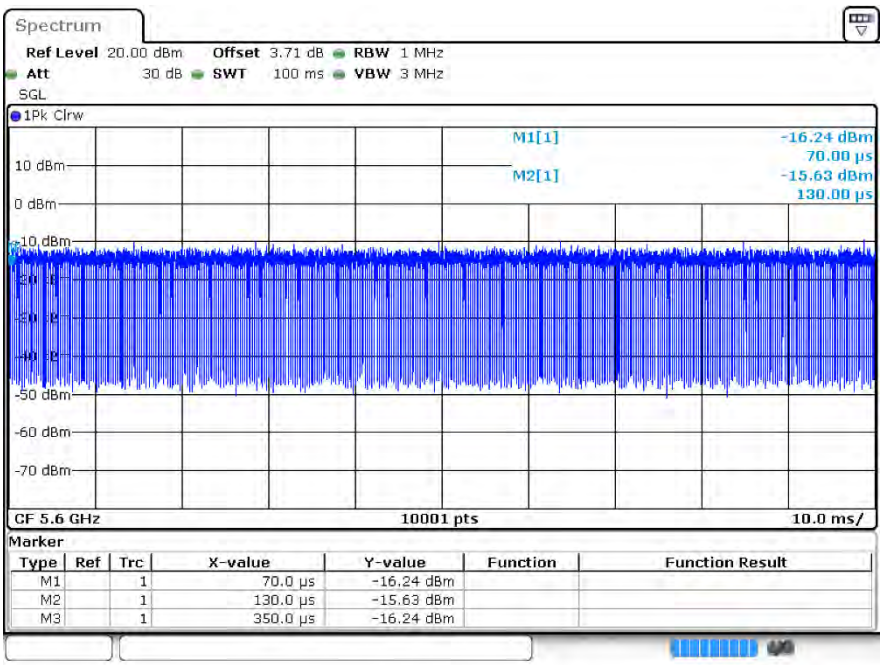
Duty Cycle n20 5320MHz Ant1



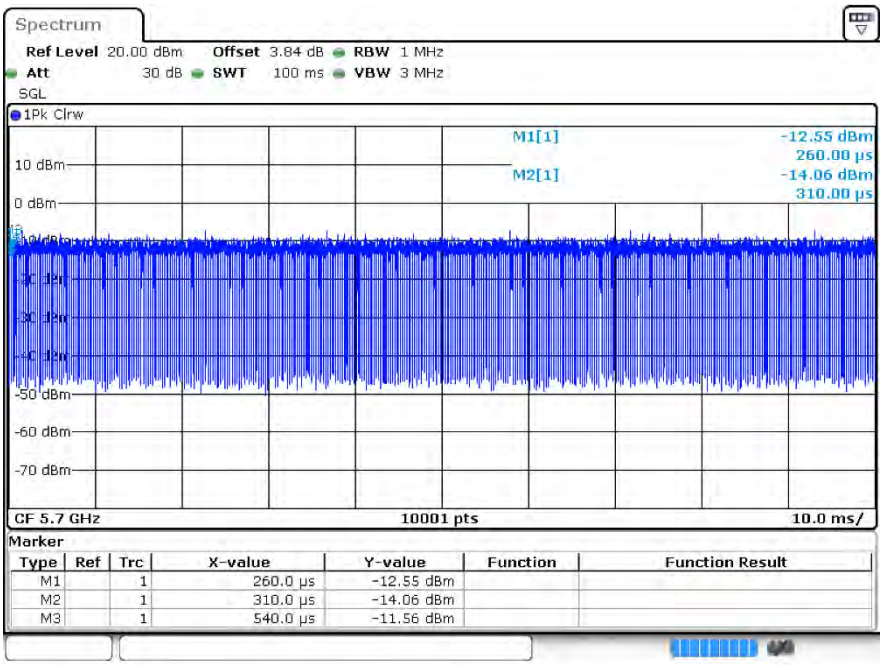
Duty Cycle n20 5500MHz Ant1



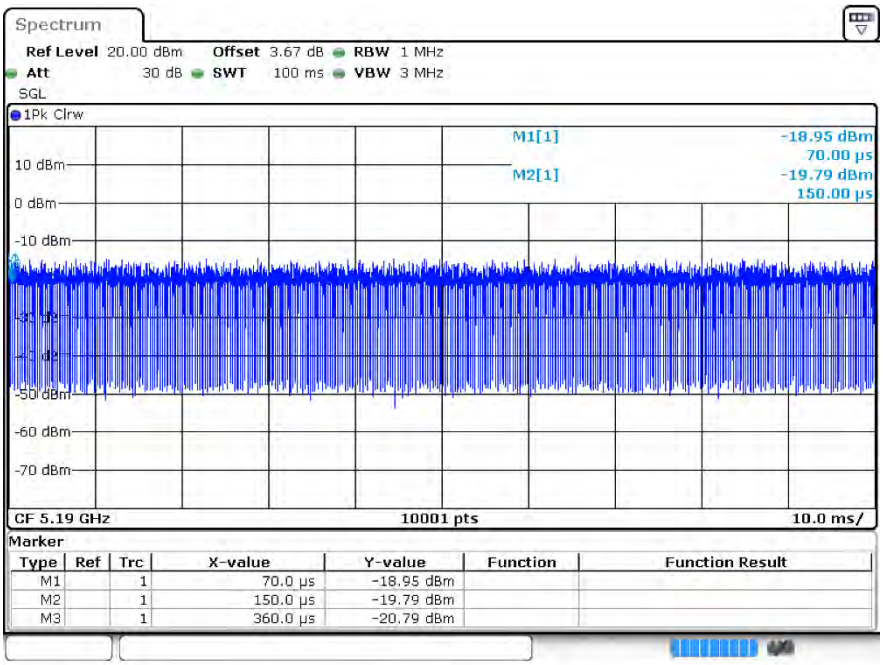
Duty Cycle n20 5600MHz Ant1



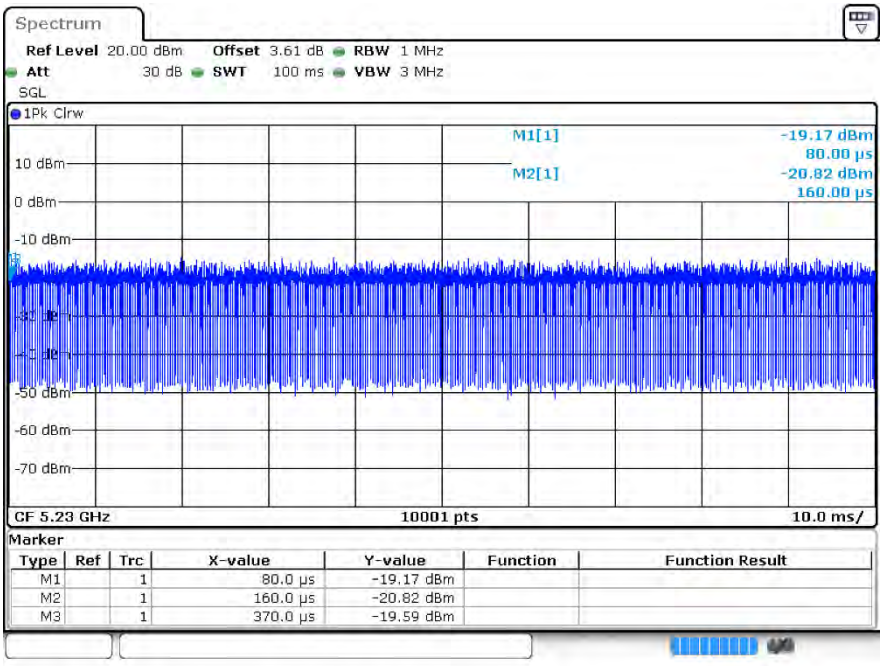
Duty Cycle n20 5700MHz Ant1



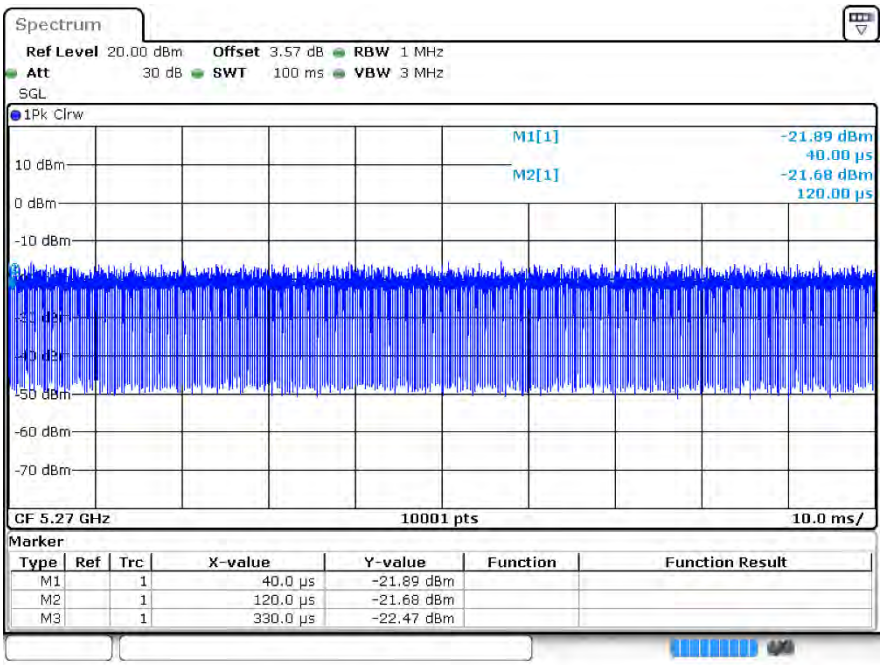
Duty Cyclen40 5190MHz Ant1



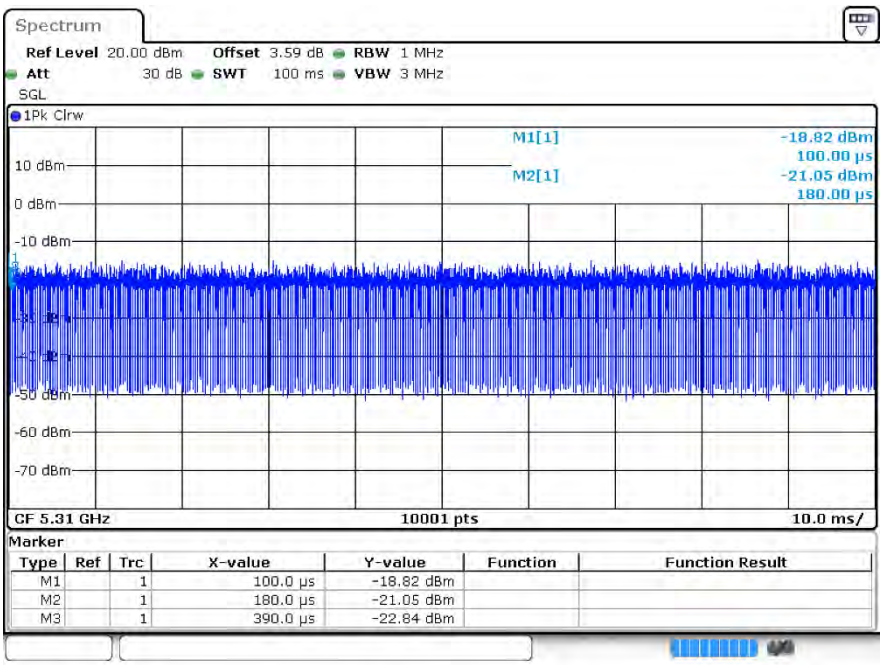
Duty Cyclen40 5230MHz Ant1



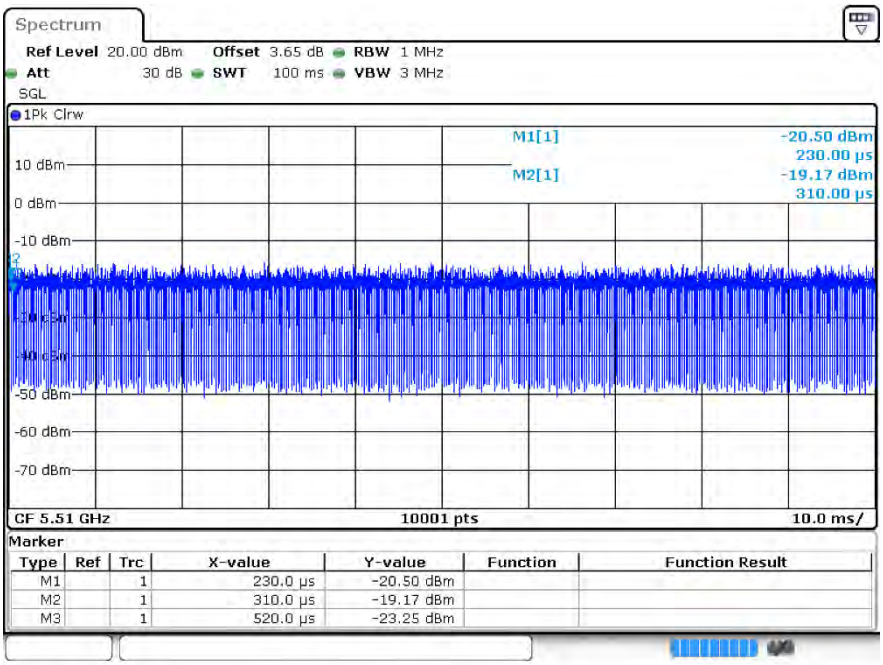
Duty Cyclen40 5270MHz Ant1



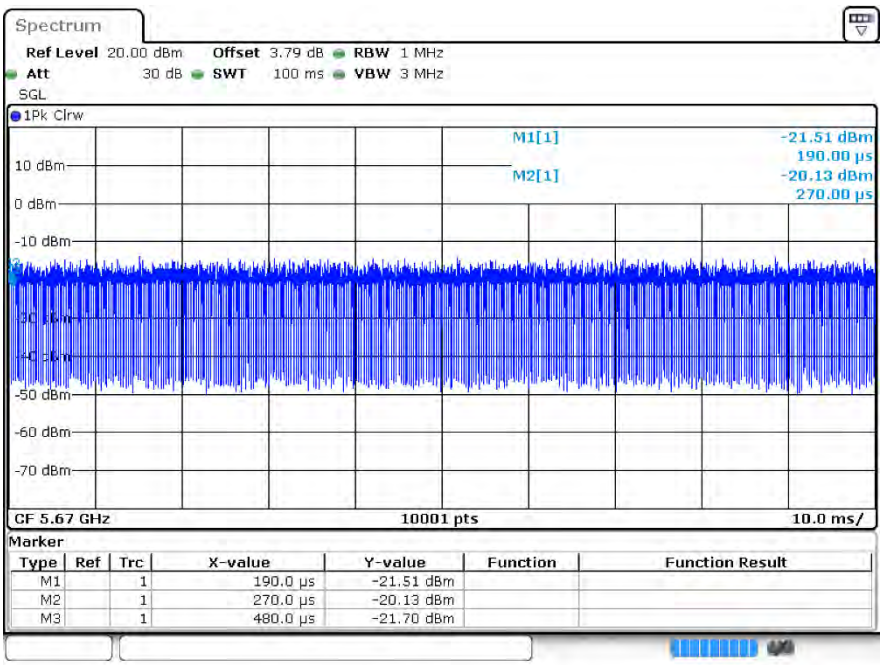
Duty Cycle n40 5310MHz Ant1



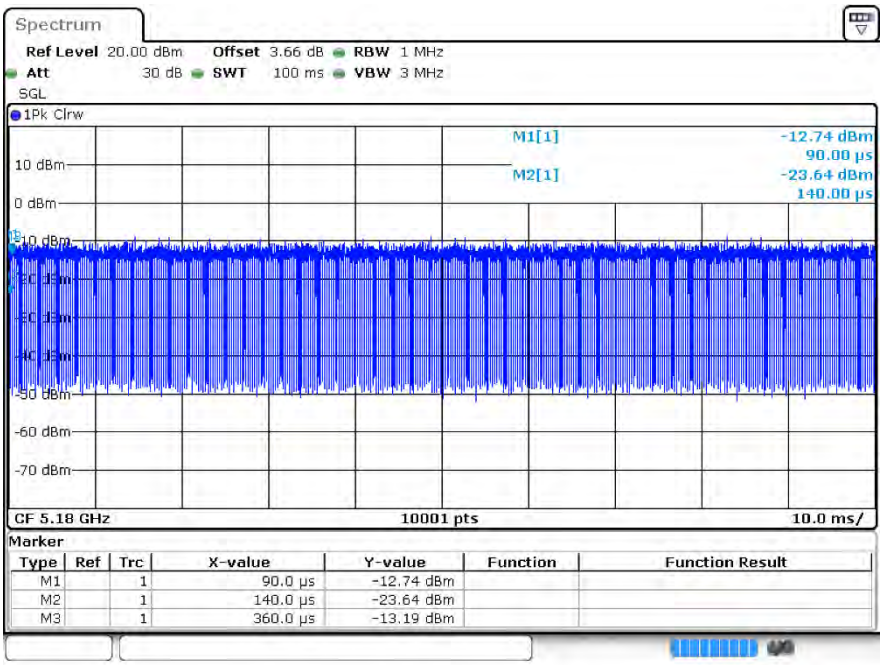
Duty Cyclen40 5510MHz Ant1



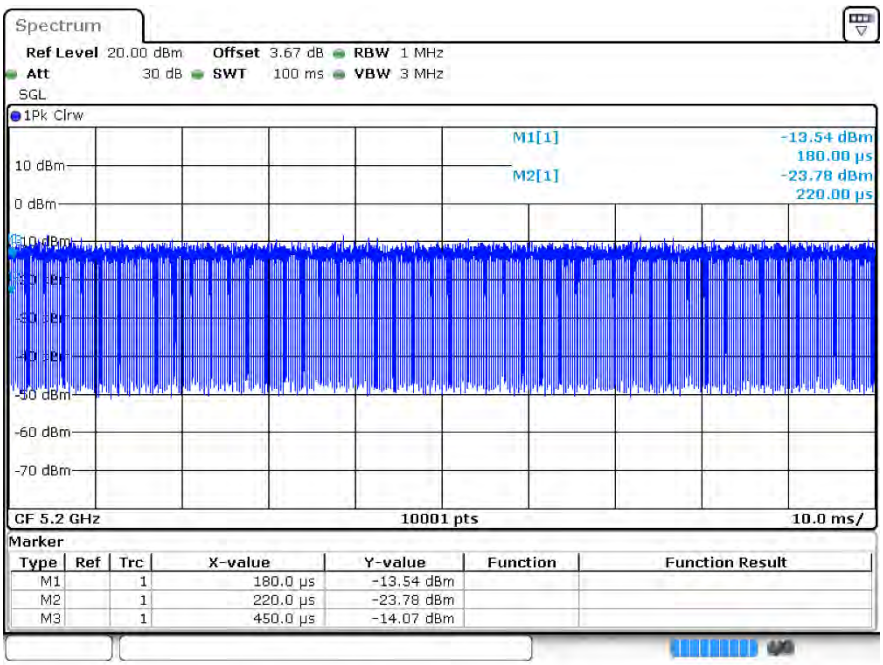
Duty Cycle n40 5670MHz Ant1



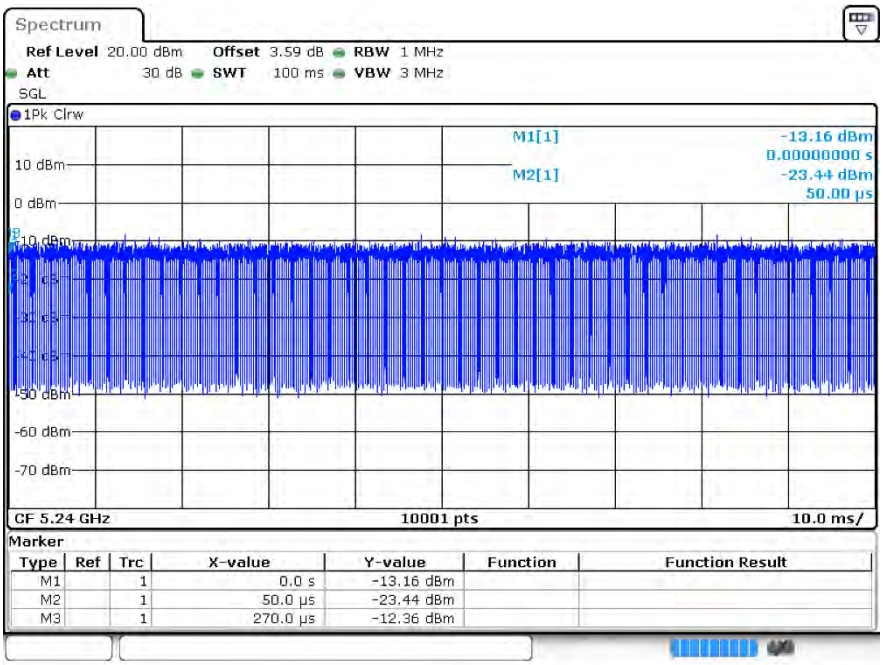
Duty Cycle ac20 5180MHz Ant1



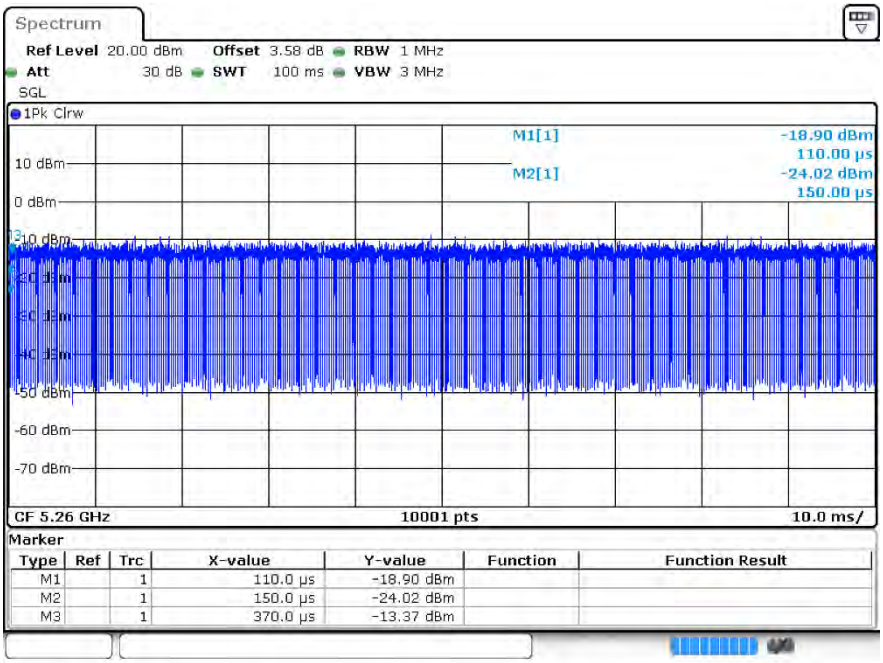
Duty Cycle ac20 5200MHz Ant1



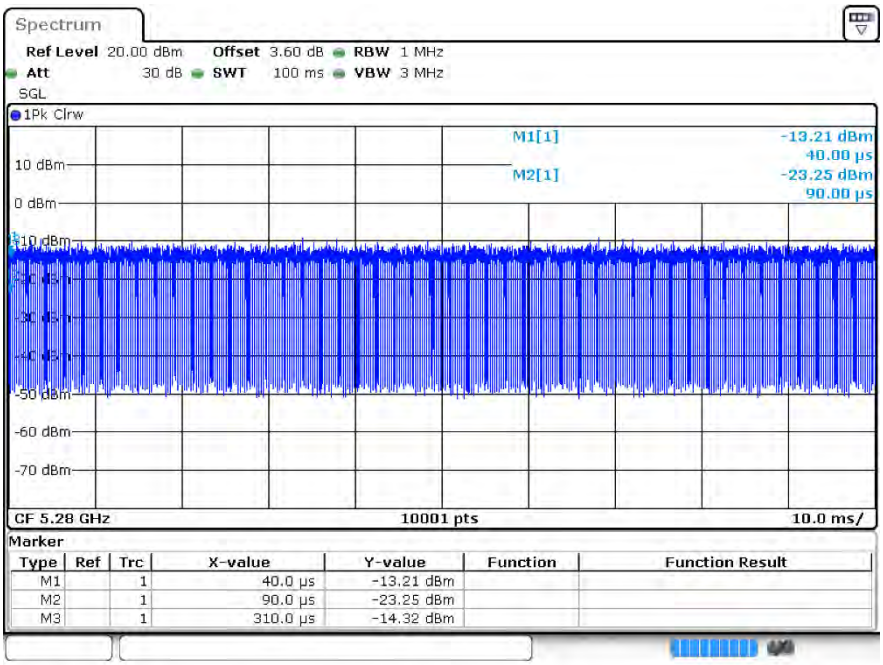
Duty Cycle ac20 5240MHz Ant1



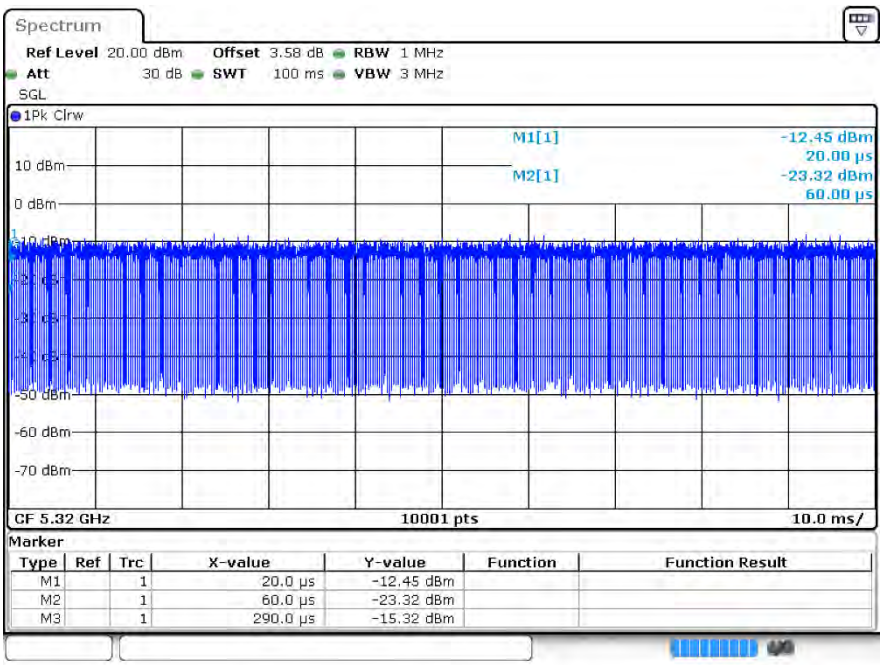
Duty Cycle ac20 5260MHz Ant1



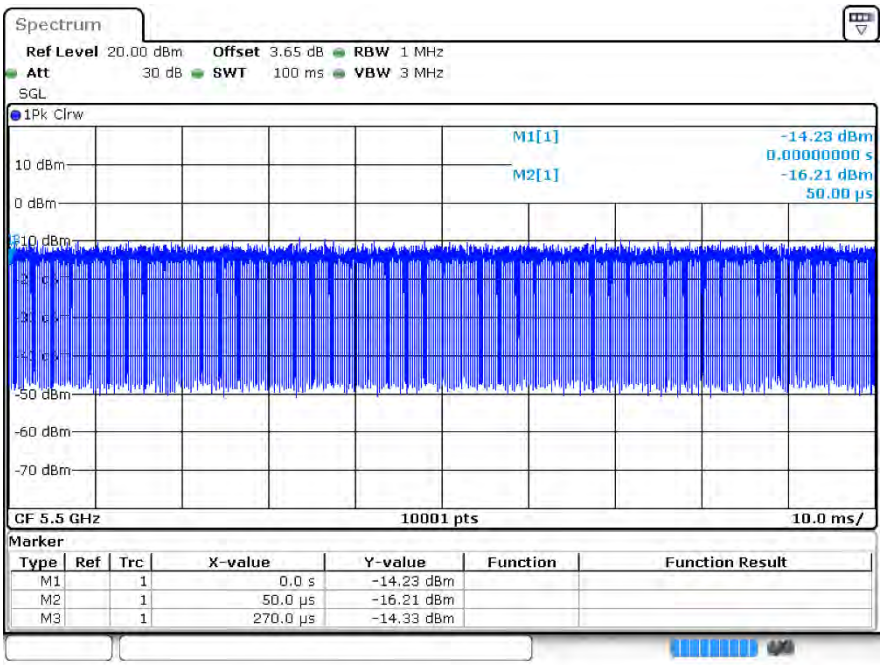
Duty Cycle ac20 5280MHz Ant1



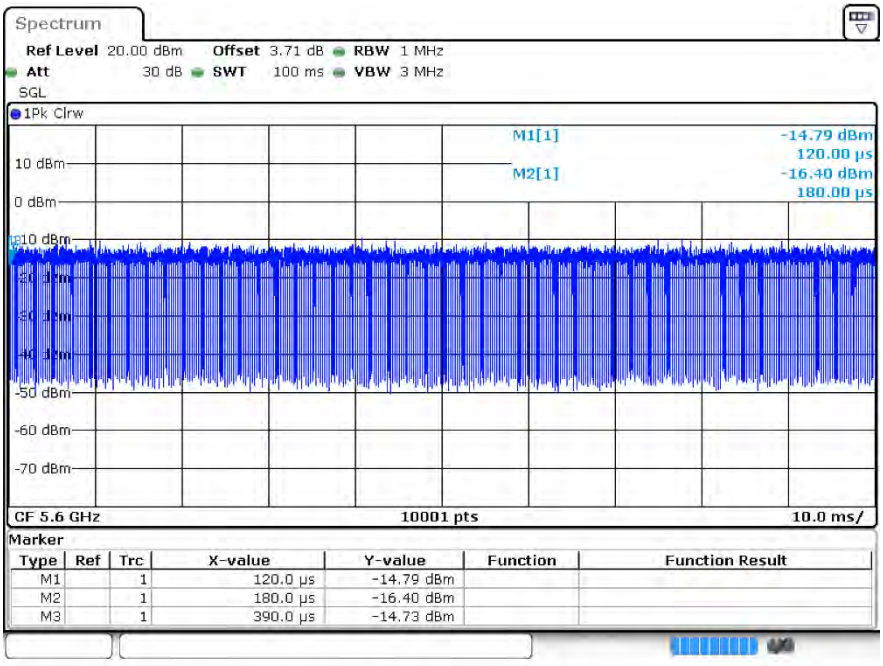
Duty Cycle ac20 5320MHz Ant1



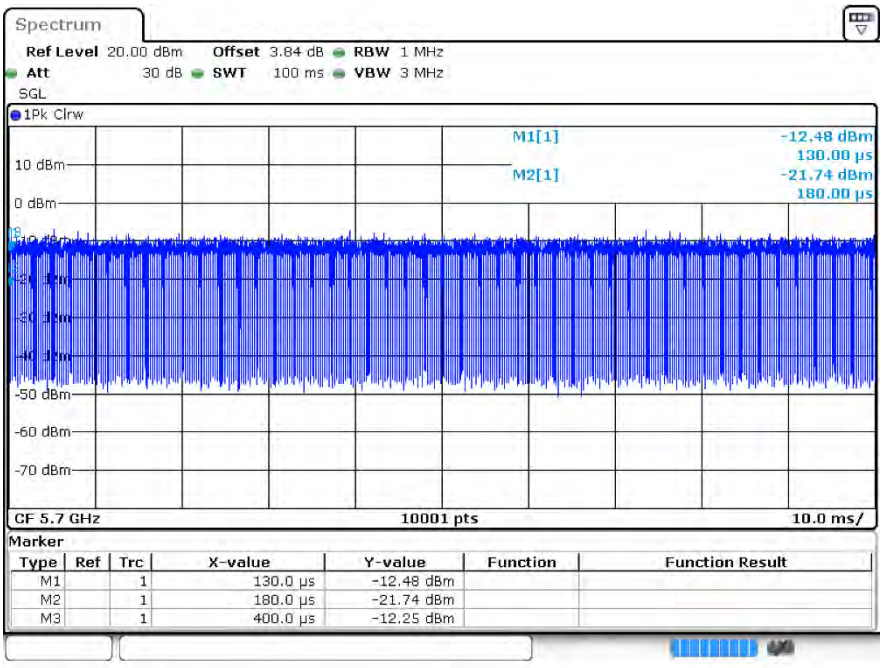
Duty Cycle ac20 5500MHz Ant1



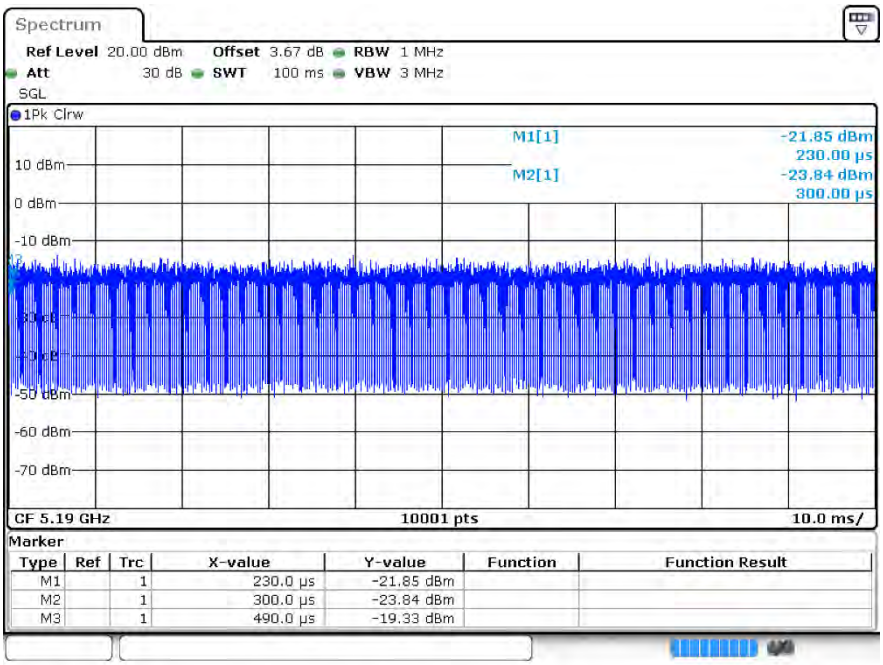
Duty Cycle ac20 5600MHz Ant1



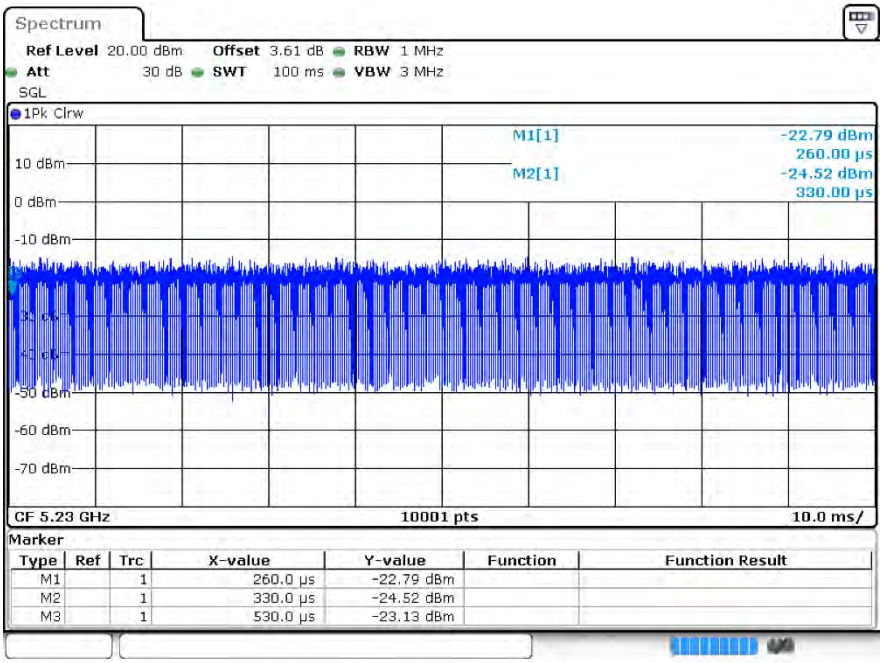
Duty Cycle ac20 5700MHz Ant1



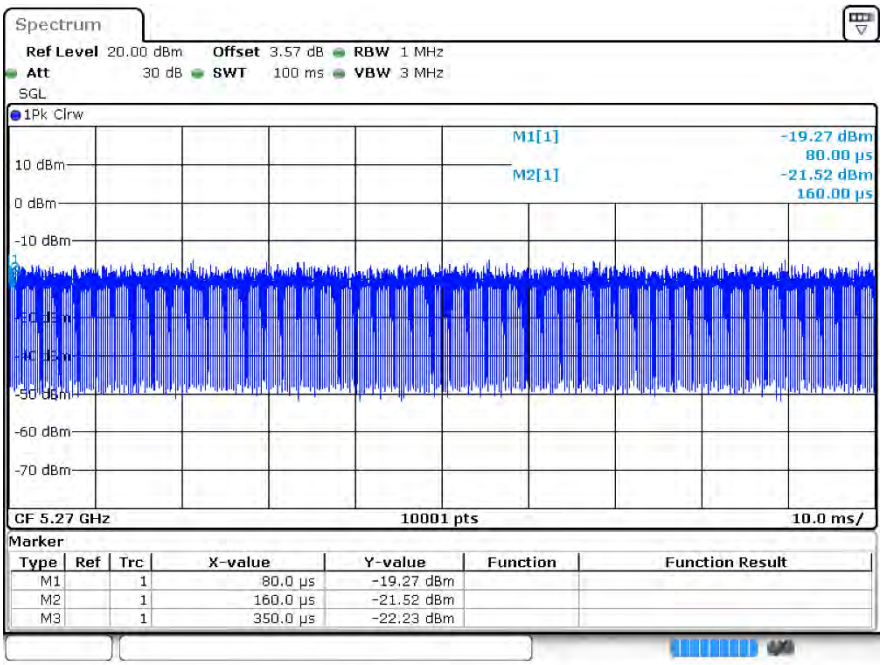
Duty Cycleac40 5190MHz Ant1



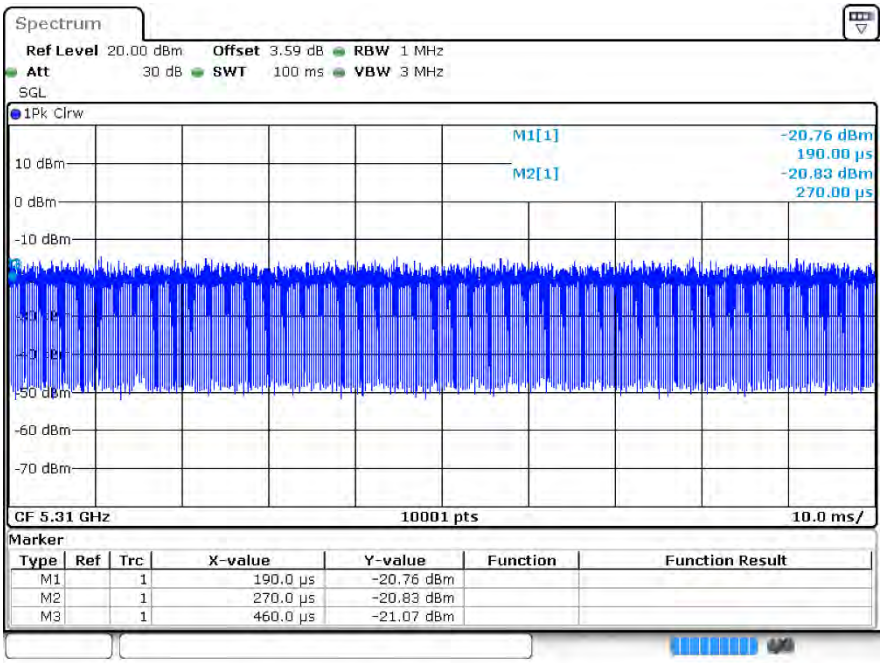
Duty Cycleac40 5230MHz Ant1



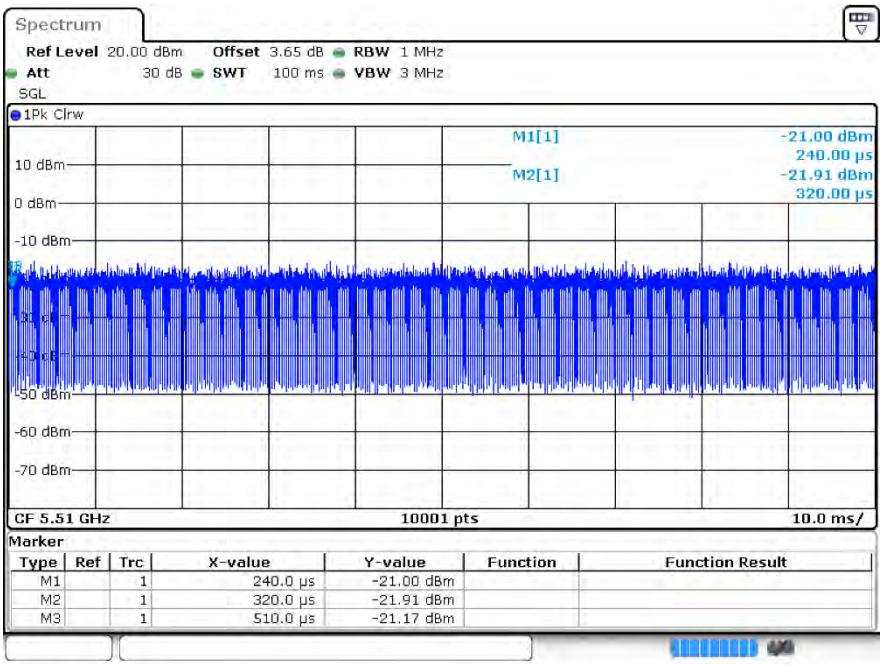
Duty Cycle ac40 5270MHz Ant1



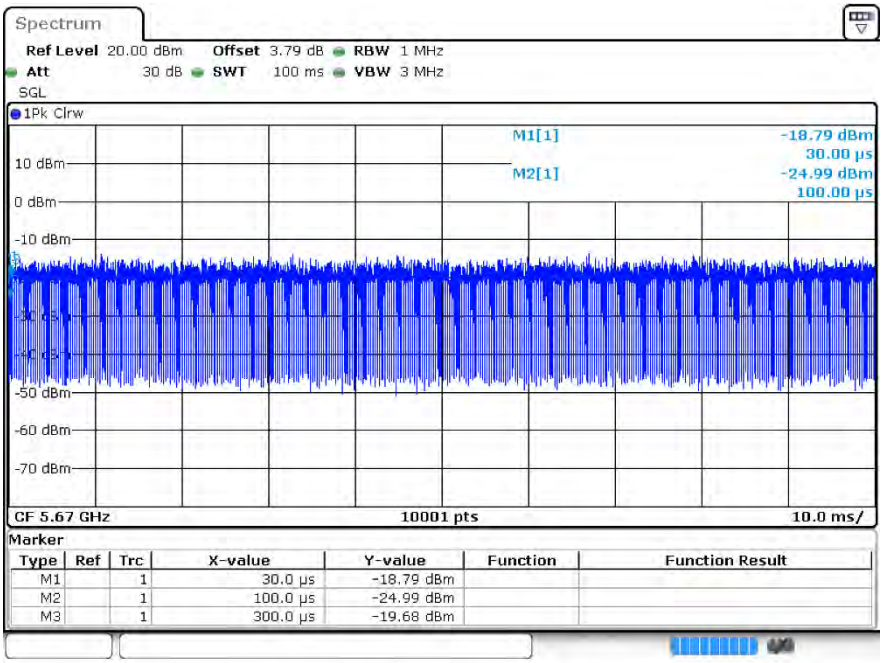
Duty Cycle ac40 5310MHz Ant1



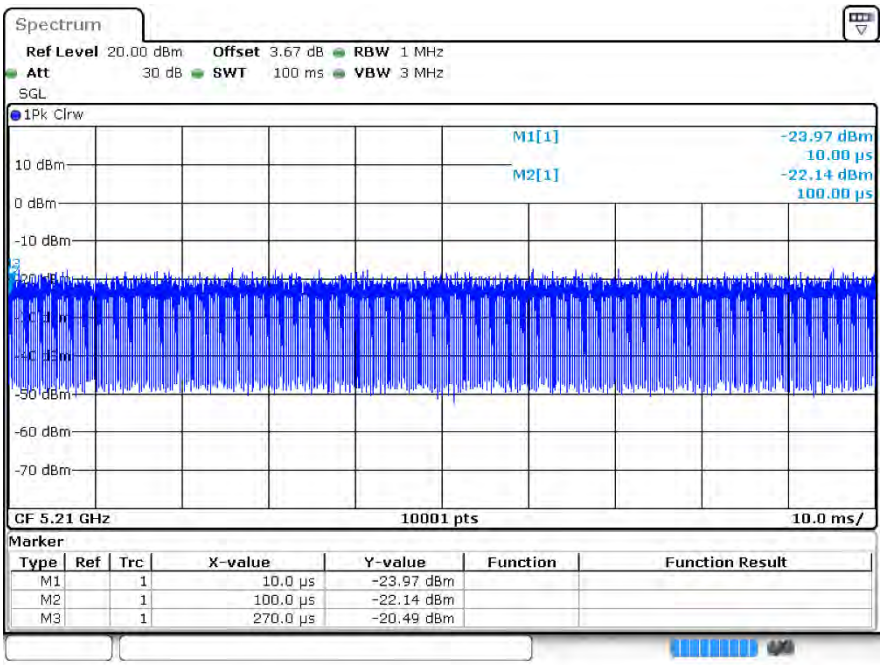
Duty Cycleac40 5510MHz Ant1



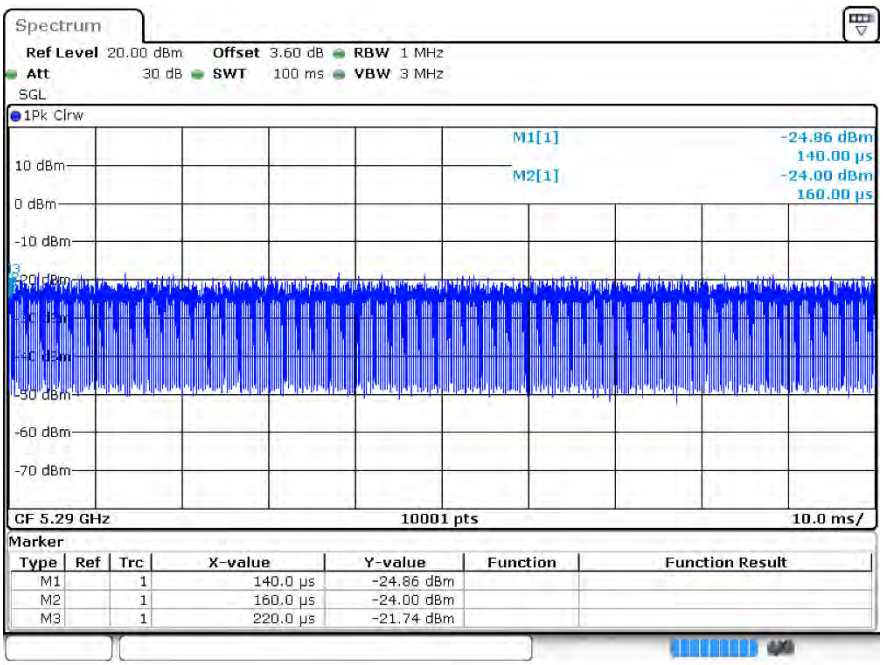
Duty Cycle ac40 5670MHz Ant1



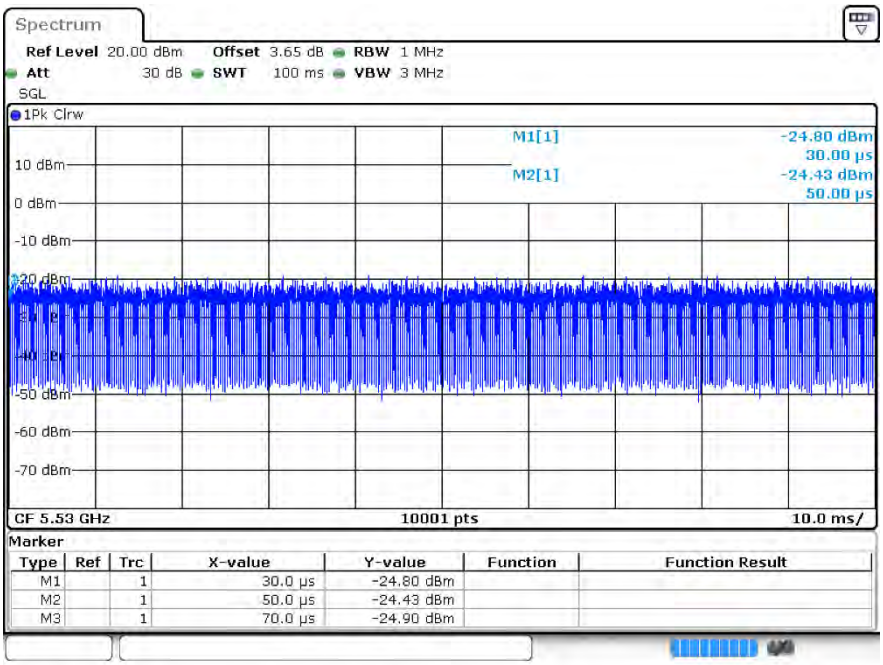
Duty Cycleac80 5210MHz Ant1



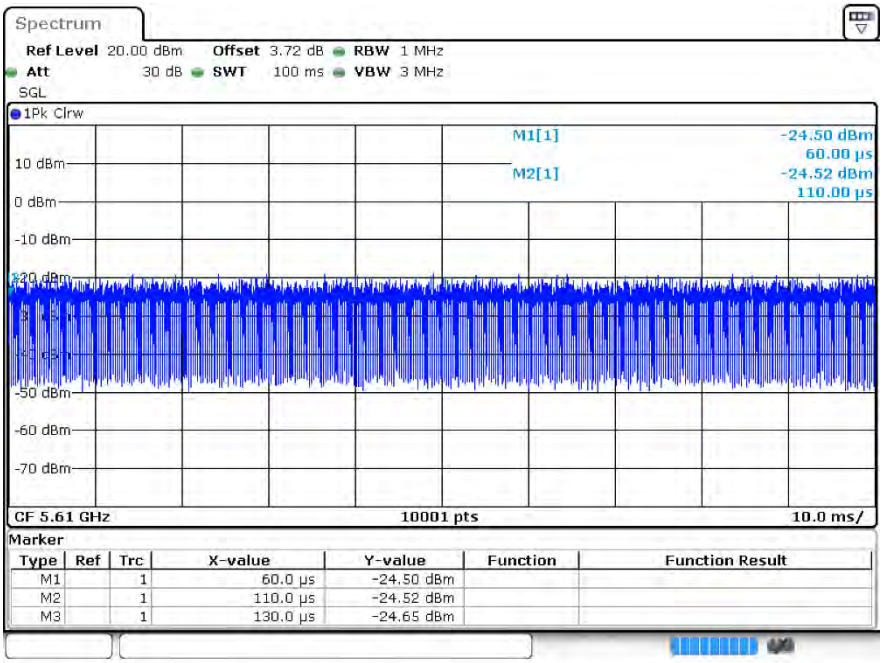
Duty Cycleac80 5290MHz Ant1



Duty Cycle ac80 5530MHz Ant1



Duty Cycleac80 5610MHz Ant1



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	-2.08	24	Pass
a	5200	Ant1	-1.96	24	Pass
a	5240	Ant1	-2.1	24	Pass
a	5260	Ant1	-2.39	24	Pass
a	5280	Ant1	-2.66	24	Pass
a	5320	Ant1	-1.49	24	Pass
a	5500	Ant1	-2.56	24	Pass
a	5600	Ant1	-3.21	24	Pass
a	5700	Ant1	-0.58	24	Pass
n20	5180	Ant1	-2.55	24	Pass
n20	5200	Ant1	-2.59	24	Pass
n20	5240	Ant1	-2.66	24	Pass
n20	5280	Ant1	-3.26	24	Pass
n20	5320	Ant1	-2.09	24	Pass
n20	5500	Ant1	-3.2	24	Pass
n20	5600	Ant1	-3.85	24	Pass
n20	5700	Ant1	-1.21	24	Pass
n40	5190	Ant1	-2.37	24	Pass
n40	5230	Ant1	-2.76	24	Pass
n40	5270	Ant1	-3.42	24	Pass
n40	5310	Ant1	-2.95	24	Pass
n40	5510	Ant1	-3.47	24	Pass
n40	5670	Ant1	-1.86	24	Pass
ac20	5180	Ant1	-2.58	24	Pass
ac20	5200	Ant1	-2.64	24	Pass
ac20	5240	Ant1	-2.68	24	Pass
ac20	5280	Ant1	-3.19	24	Pass
ac20	5320	Ant1	-2.08	24	Pass
ac20	5500	Ant1	-3.15	24	Pass
ac20	5600	Ant1	-3.88	24	Pass
ac20	5700	Ant1	-1.29	24	Pass
ac40	5190	Ant1	-2.21	24	Pass
ac40	5230	Ant1	-2.58	24	Pass
ac40	5270	Ant1	-3.29	24	Pass
ac40	5310	Ant1	-2.91	24	Pass
ac40	5510	Ant1	-3.36	24	Pass

ac40	5670	Ant1	-1.91	24	Pass
ac80	5210	Ant1	-2.41	24	Pass
ac80	5290	Ant1	-3.2	24	Pass
ac80	5530	Ant1	-3.93	24	Pass
ac80	5610	Ant1	-3.74	24	Pass

3 -26dB Bandwidth

3.1 Test Result

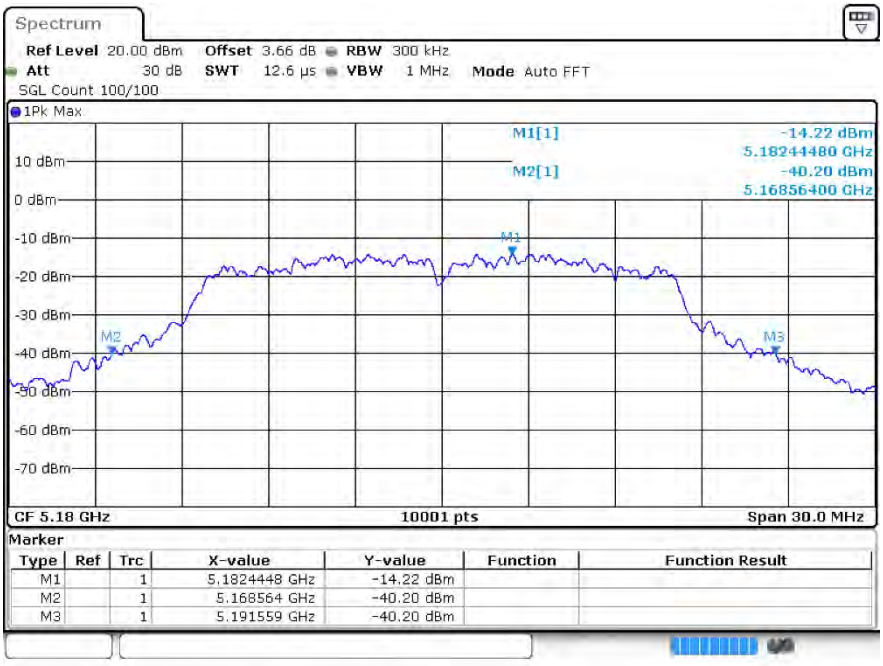
Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	22.995	0.5	Pass
a	5200	Ant1	22.176	0.5	Pass
a	5240	Ant1	22.479	0.5	Pass
a	5260	Ant1	23.118	0.5	Pass
a	5280	Ant1	22.773	0.5	Pass
a	5320	Ant1	23.088	0.5	Pass
a	5500	Ant1	22.428	0.5	Pass
a	5600	Ant1	23.706	0.5	Pass
a	5700	Ant1	22.206	0.5	Pass
n20	5180	Ant1	23.325	0.5	Pass
n20	5200	Ant1	23.043	0.5	Pass
n20	5240	Ant1	22.989	0.5	Pass
n20	5280	Ant1	22.977	0.5	Pass
n20	5320	Ant1	21.822	0.5	Pass
n20	5500	Ant1	22.935	0.5	Pass
n20	5600	Ant1	22.416	0.5	Pass
n20	5700	Ant1	23.004	0.5	Pass
n40	5190	Ant1	43.632	0.5	Pass
n40	5230	Ant1	43.074	0.5	Pass
n40	5270	Ant1	44.946	0.5	Pass
n40	5310	Ant1	43.518	0.5	Pass
n40	5510	Ant1	42.69	0.5	Pass
n40	5670	Ant1	42.546	0.5	Pass
ac20	5180	Ant1	22.413	0.5	Pass
ac20	5200	Ant1	22.554	0.5	Pass
ac20	5240	Ant1	22.914	0.5	Pass
ac20	5260	Ant1	22.776	0.5	Pass
ac20	5280	Ant1	21.978	0.5	Pass
ac20	5320	Ant1	23.058	0.5	Pass
ac20	5500	Ant1	22.746	0.5	Pass
ac20	5600	Ant1	23.877	0.5	Pass
ac20	5700	Ant1	22.959	0.5	Pass
ac40	5190	Ant1	41.4	0.5	Pass
ac40	5230	Ant1	43.59	0.5	Pass
ac40	5270	Ant1	44.862	0.5	Pass
ac40	5310	Ant1	42.354	0.5	Pass
ac40	5510	Ant1	43.392	0.5	Pass

ac40	5670	Ant1	43.05	0.5	Pass
ac80	5210	Ant1	89.472	0.5	Pass
ac80	5290	Ant1	91.044	0.5	Pass
ac80	5530	Ant1	89.844	0.5	Pass
ac80	5610	Ant1	113.376	0.5	Pass

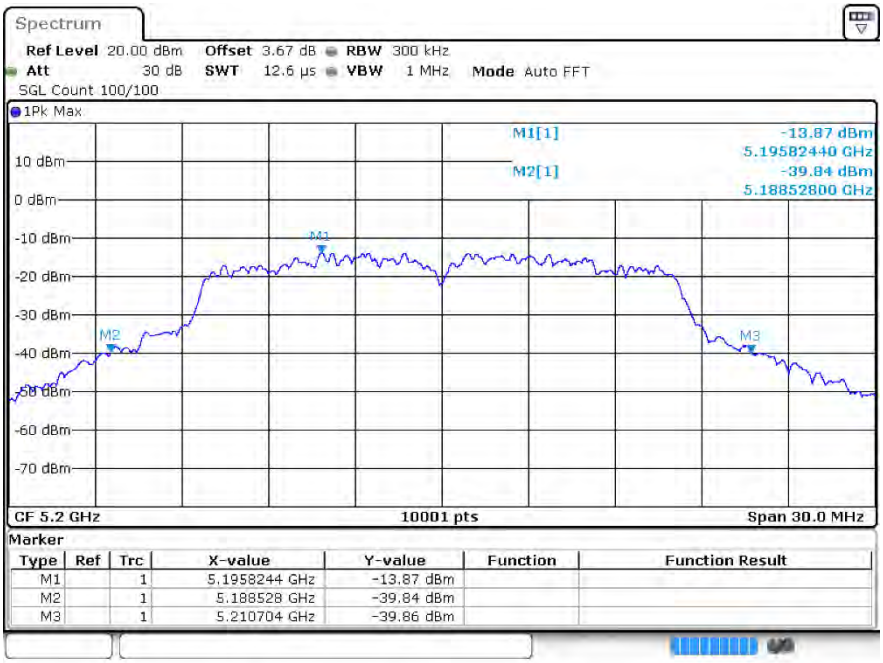
3.2 Test Graphs

Test Graphs

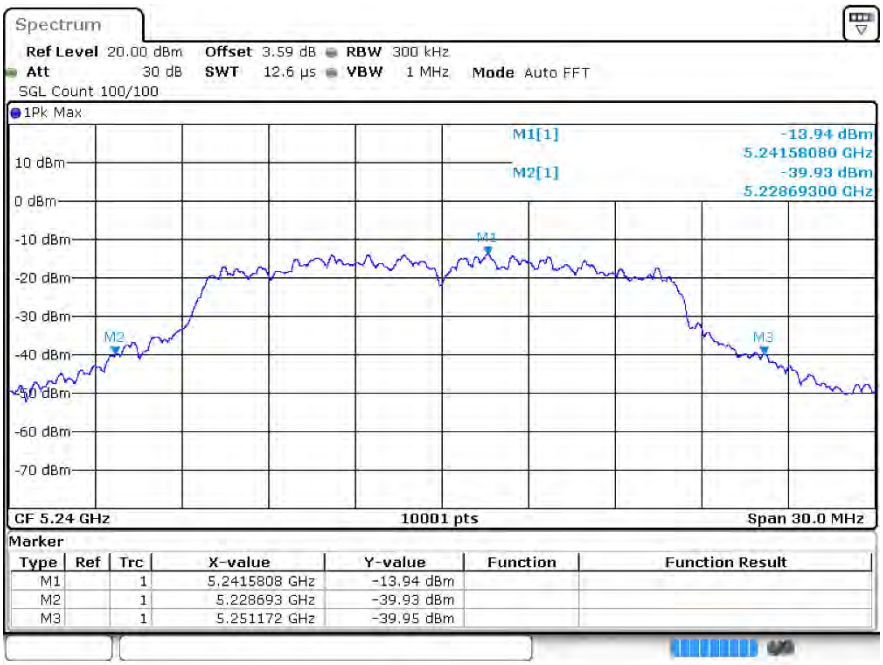
-26dB Bandwidtha 5180MHz Ant1



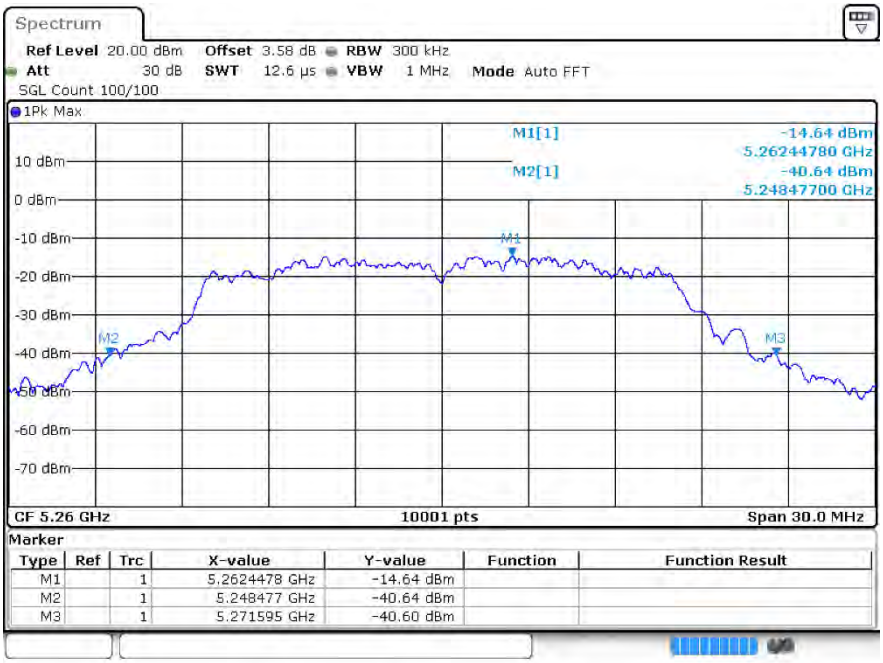
-26dB Bandwidtha 5200MHz Ant1



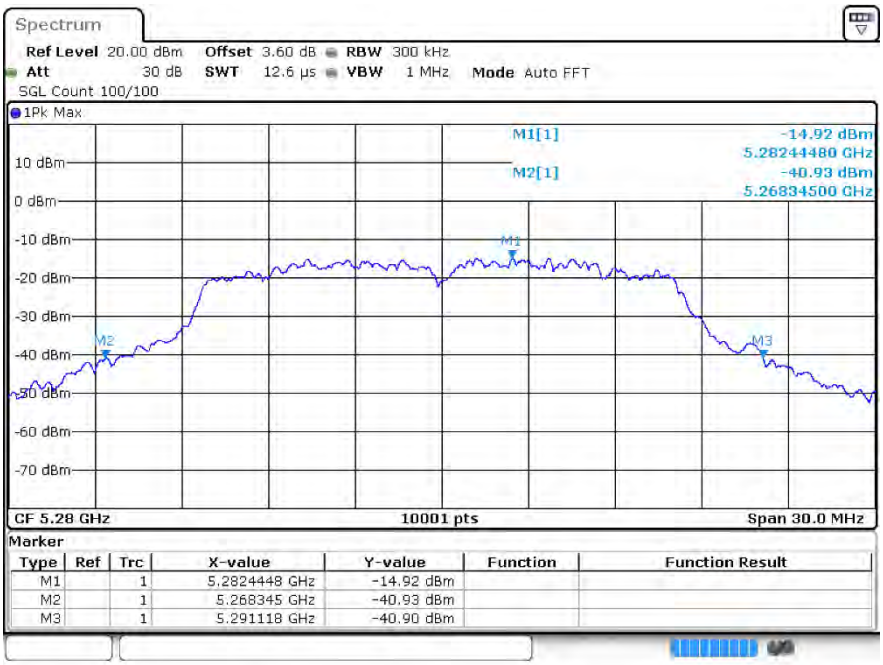
-26dB Bandwidtha 5240MHz Ant1



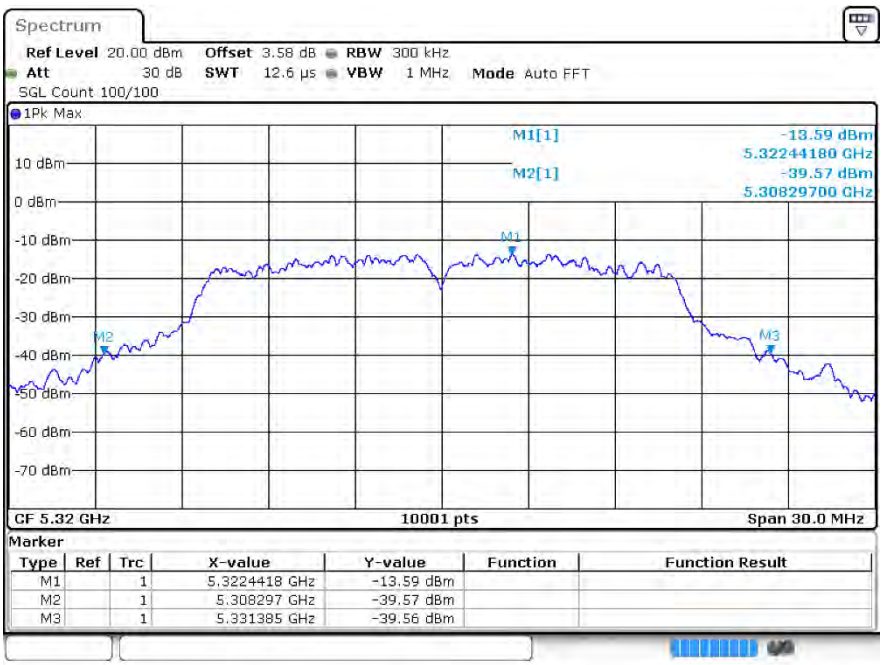
-26dB Bandwidtha 5260MHz Ant1



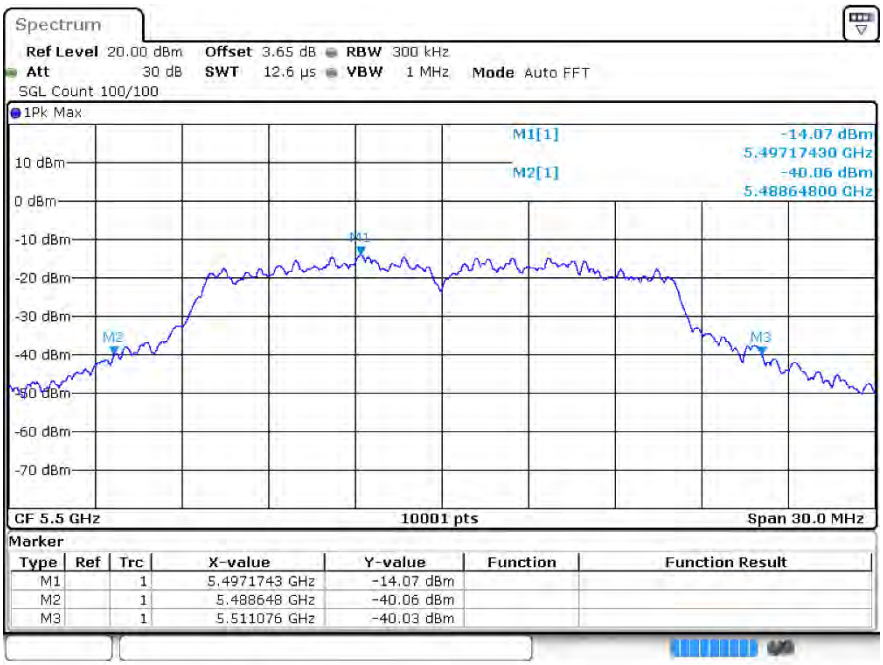
-26dB Bandwidtha 5280MHz Ant1



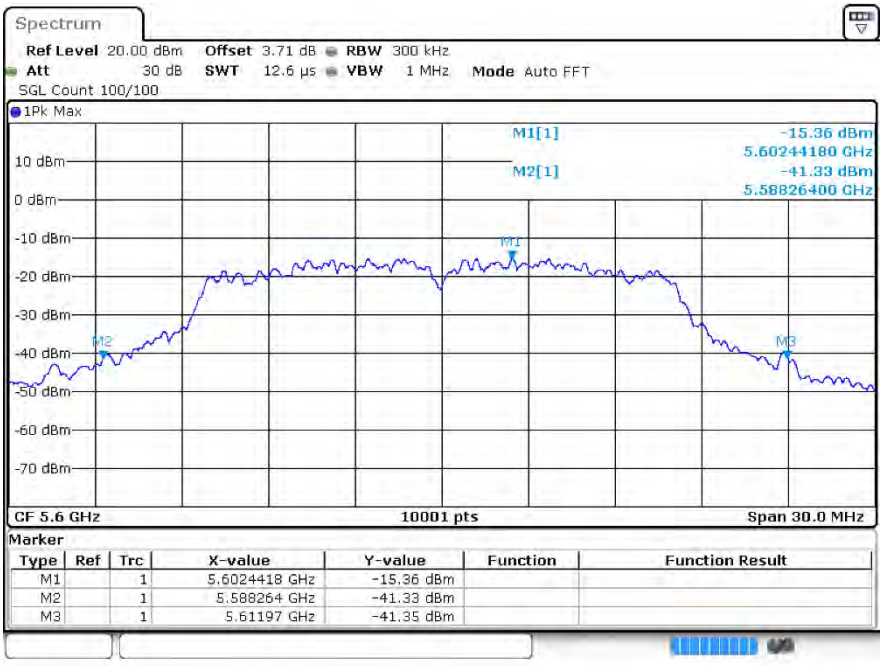
-26dB Bandwidth a 5320MHz Ant1



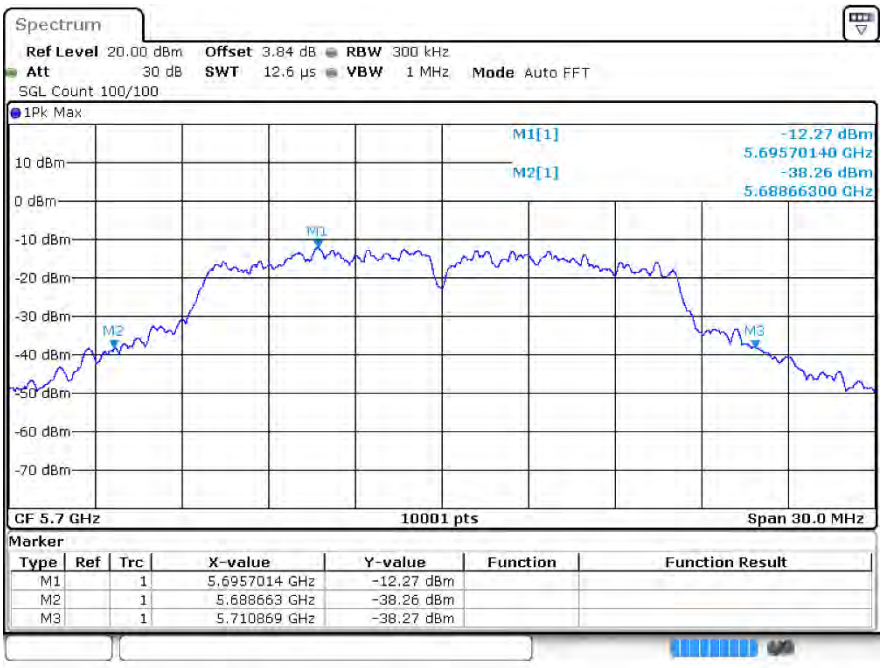
-26dB Bandwidtha 5500MHz Ant1



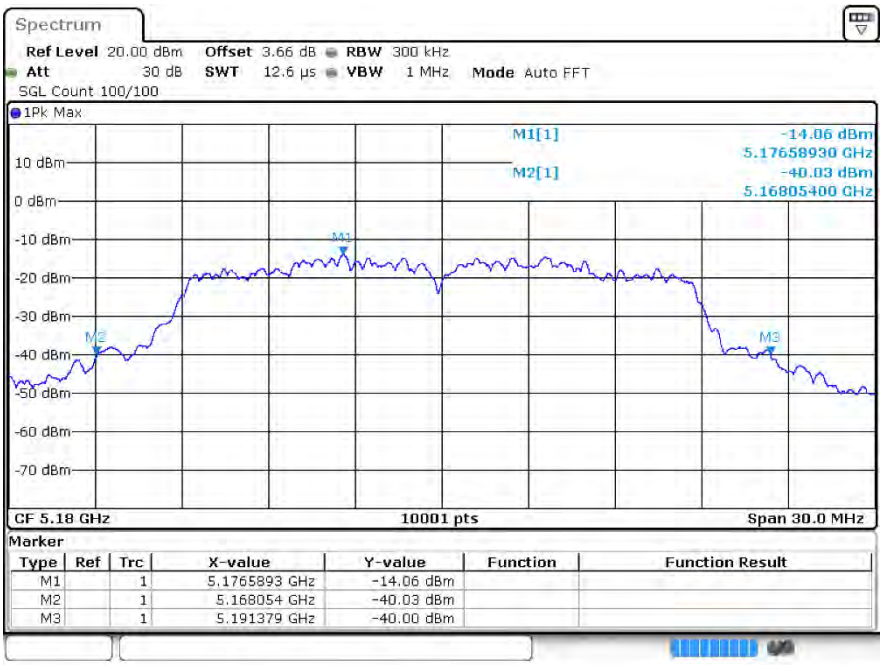
-26dB Bandwidtha 5600MHz Ant1



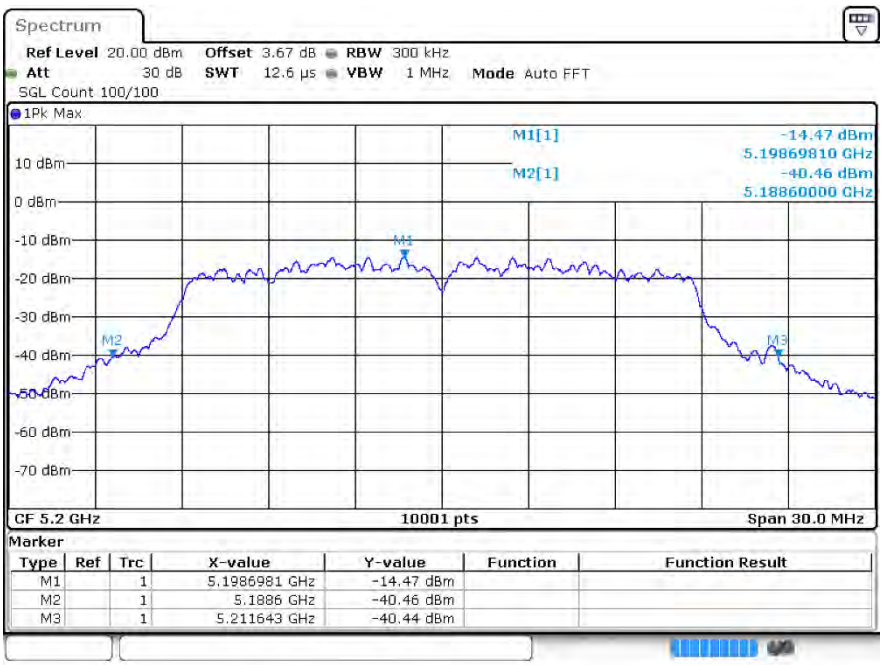
-26dB Bandwidth a 5700MHz Ant1



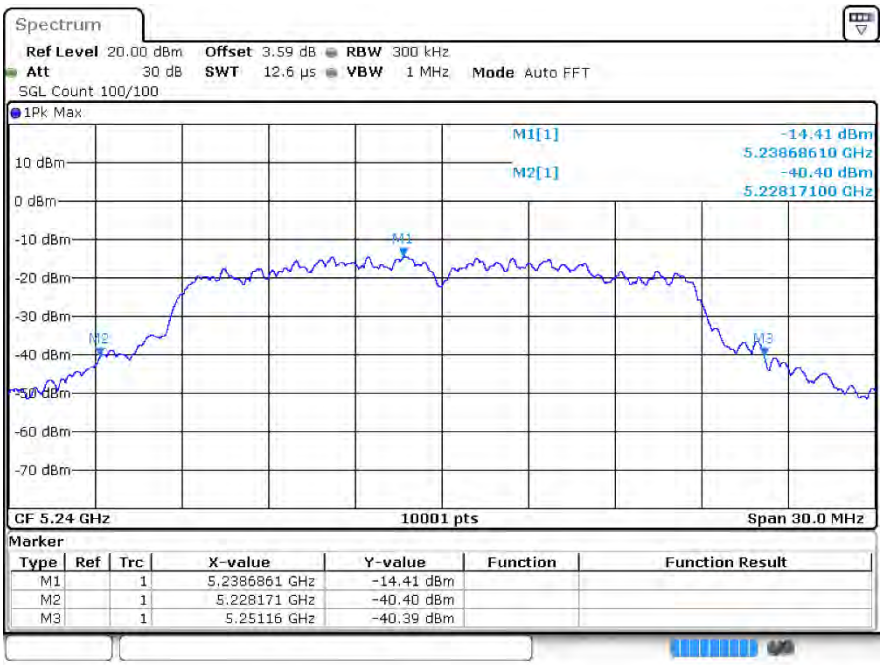
-26dB Bandwidth n20 5180MHz Ant1



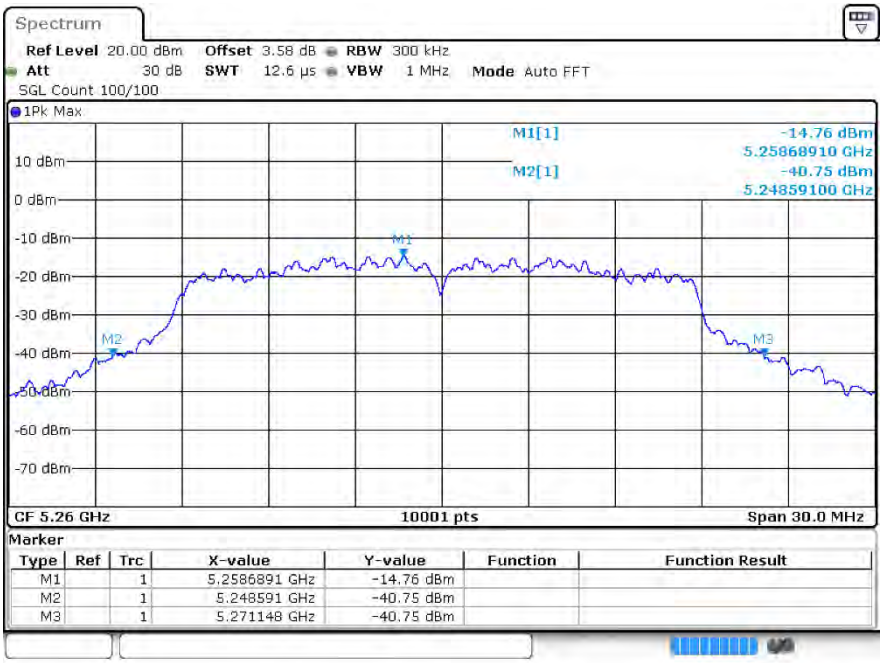
-26dB Bandwidth n20 5200MHz Ant1



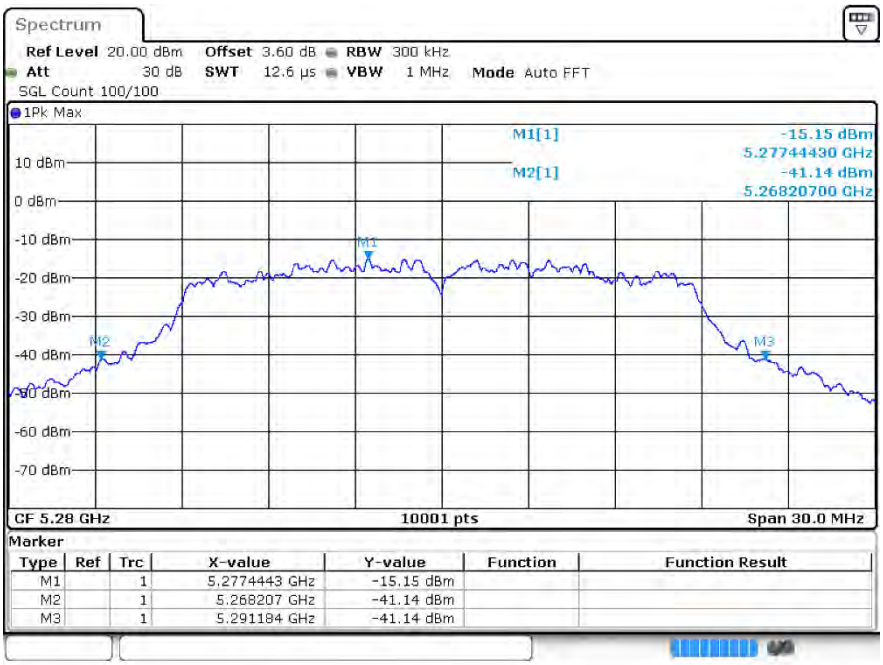
-26dB Bandwidth n20 5240MHz Ant1



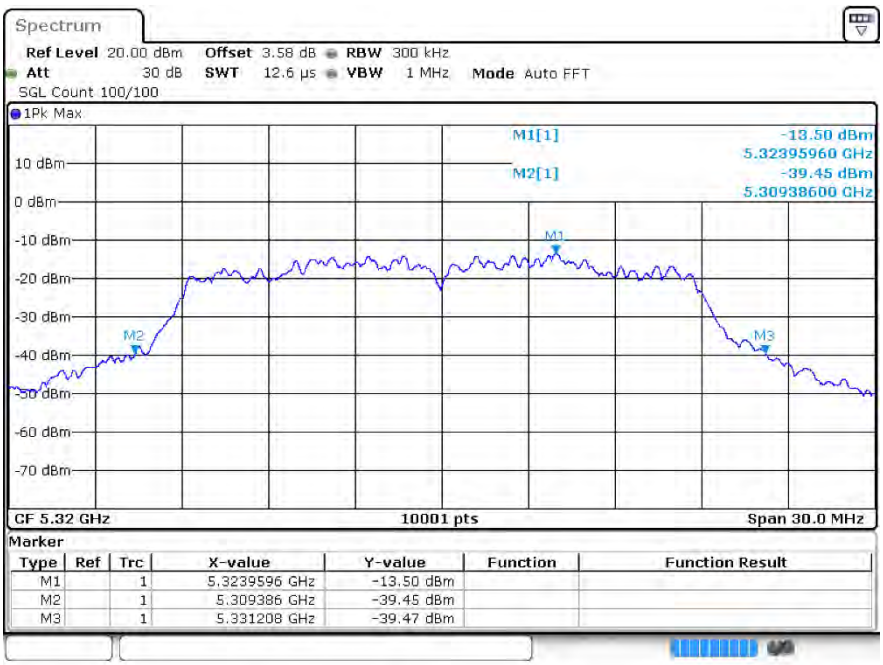
-26dB Bandwidth n20 5260MHz Ant1



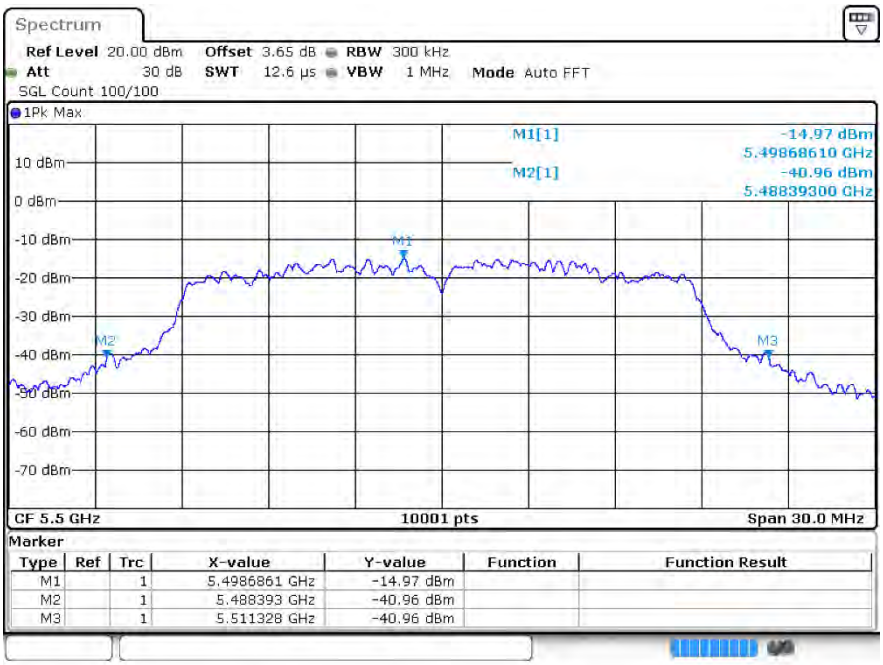
-26dB Bandwidth n20 5280MHz Ant1



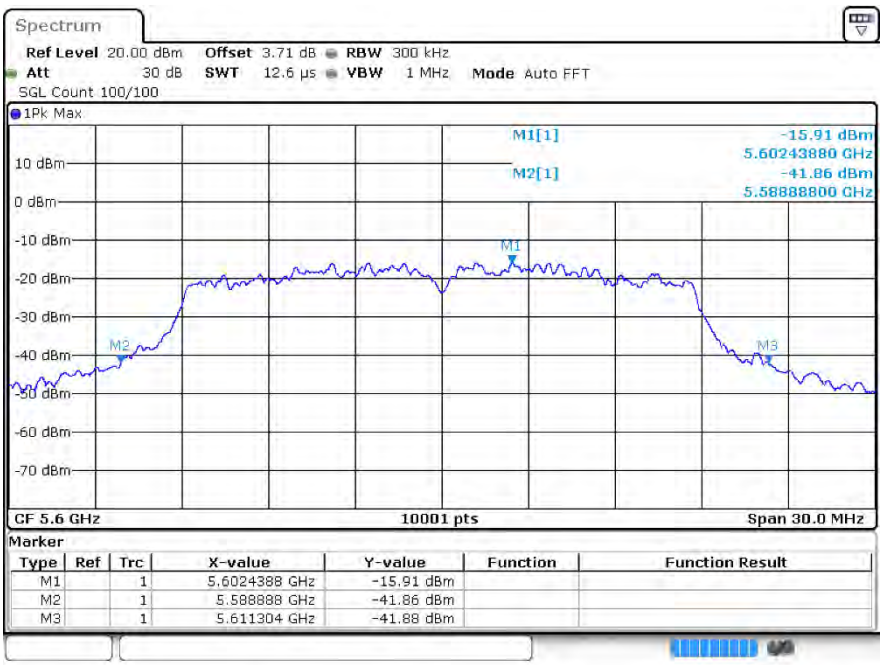
-26dB Bandwidth n20 5320MHz Ant1



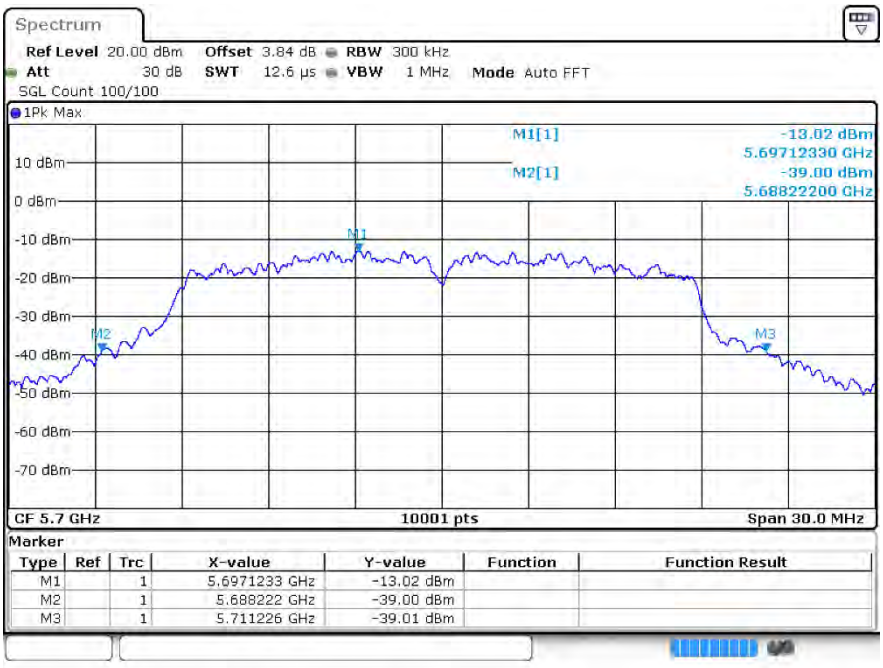
-26dB Bandwidth n20 5500MHz Ant1



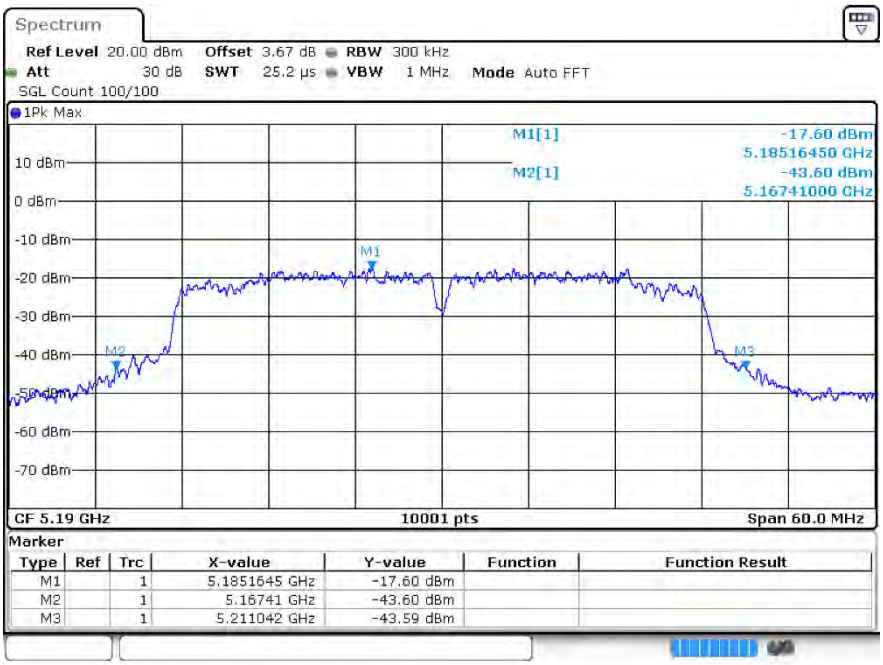
-26dB Bandwidth n20 5600MHz Ant1



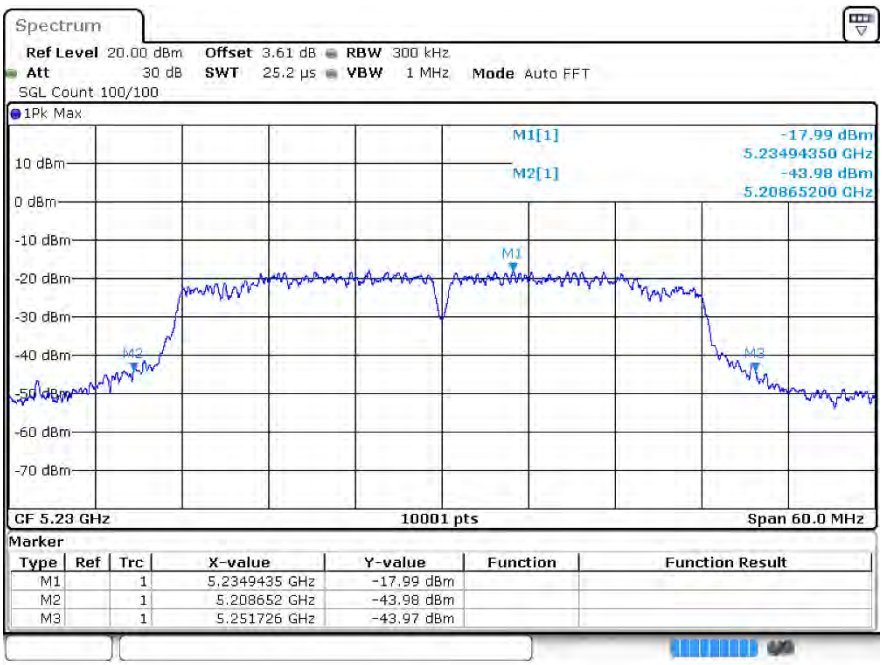
-26dB Bandwidth n20 5700MHz Ant1



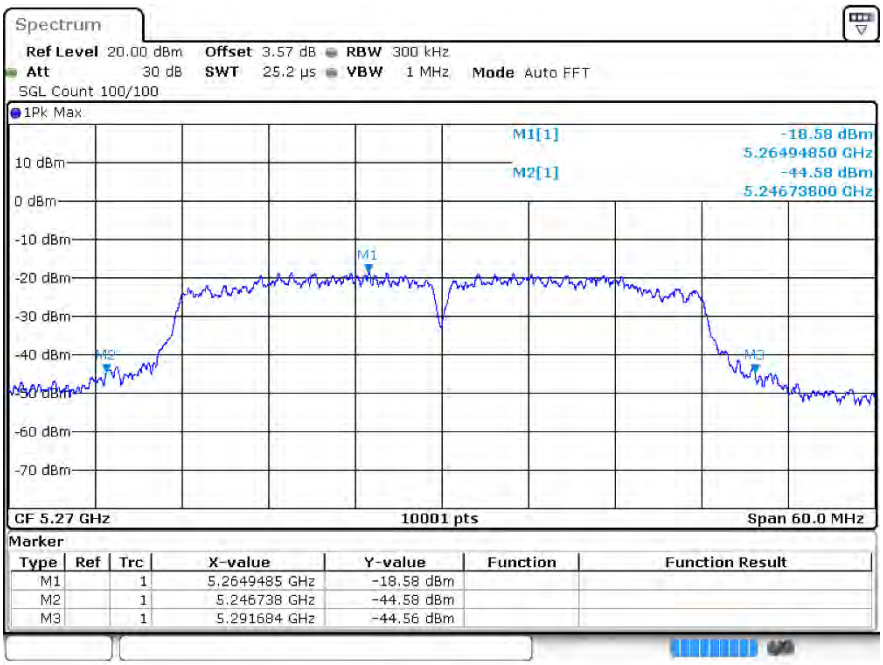
-26dB Bandwidthn40 5190MHz Ant1



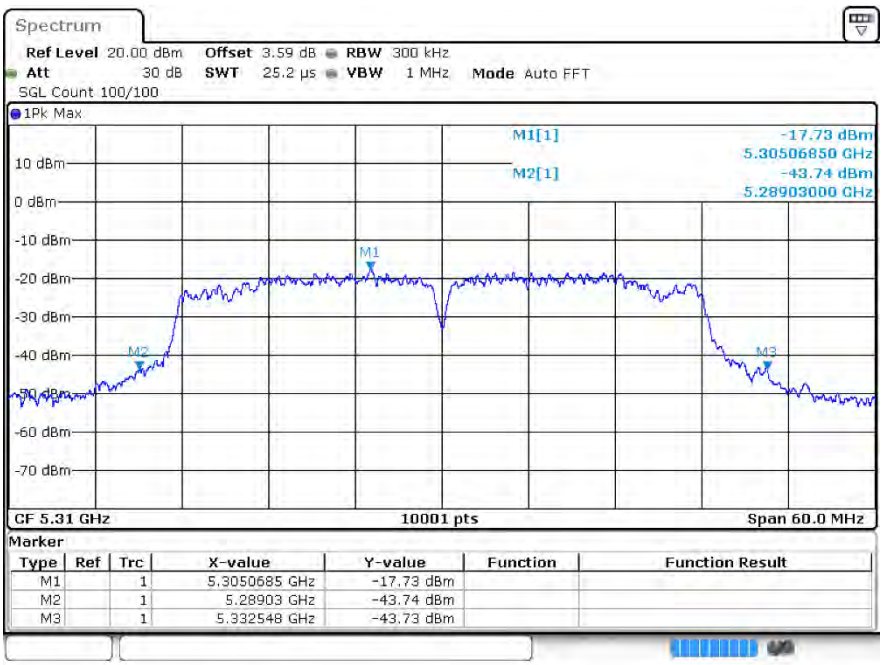
-26dB Bandwidthn40 5230MHz Ant1



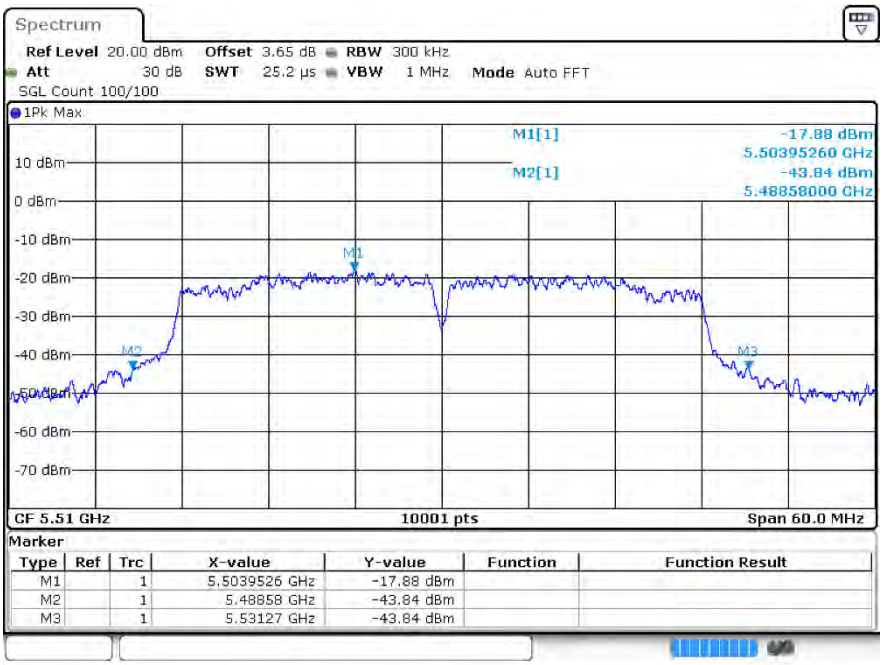
-26dB Bandwidth n40 5270MHz Ant1



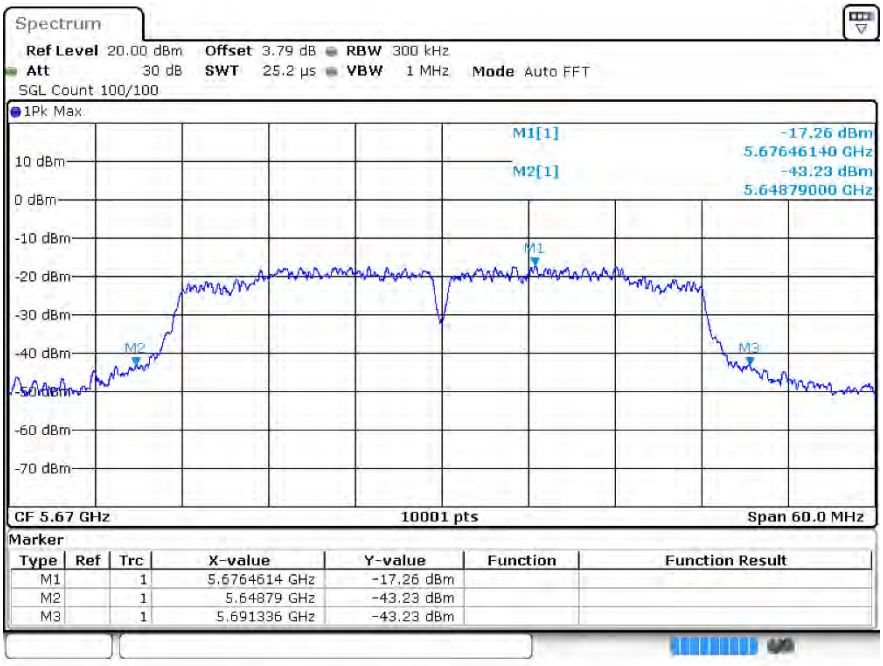
-26dB Bandwidth n40 5310MHz Ant1



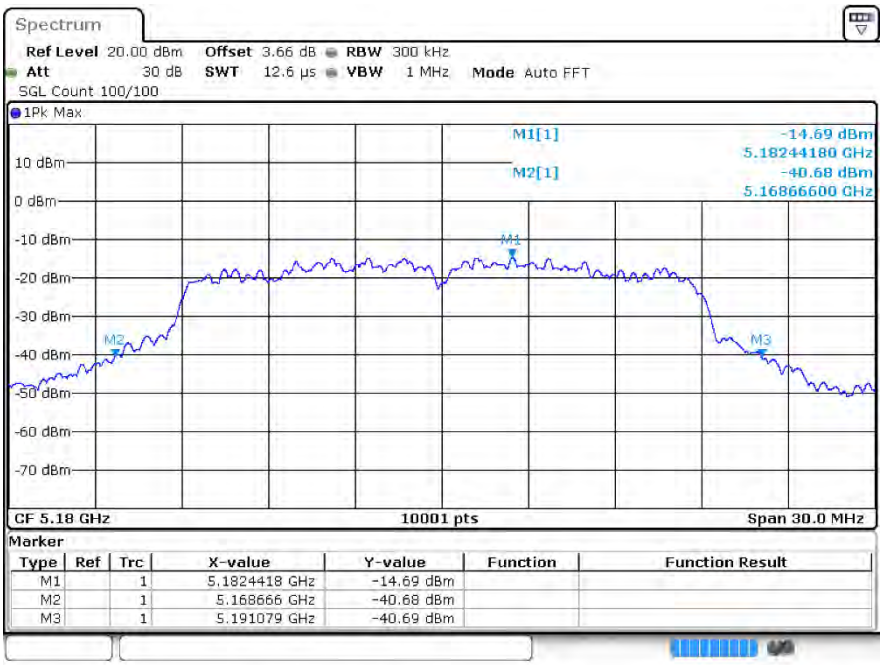
-26dB Bandwidthn40 5510MHz Ant1



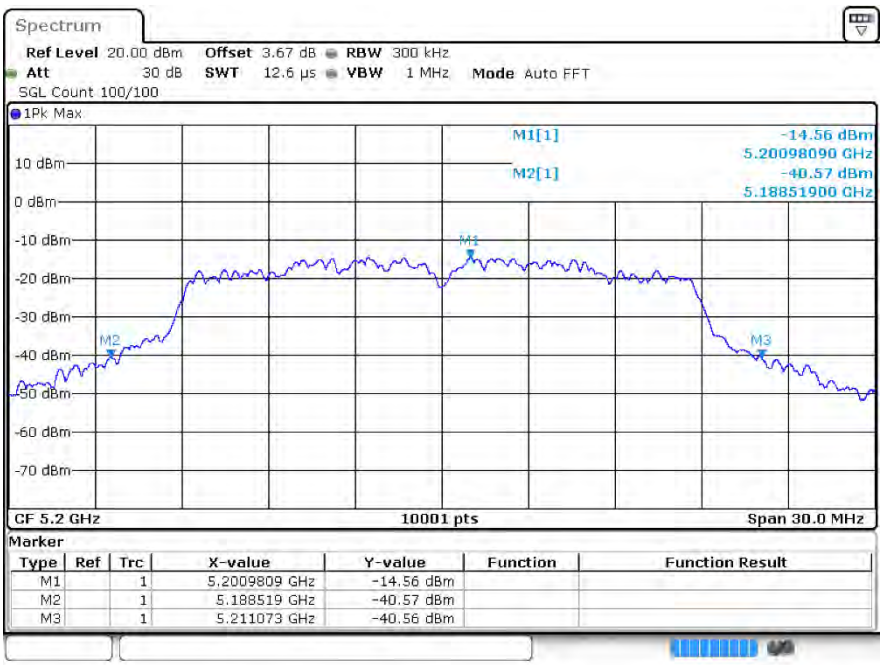
-26dB Bandwidth n40 5670MHz Ant1



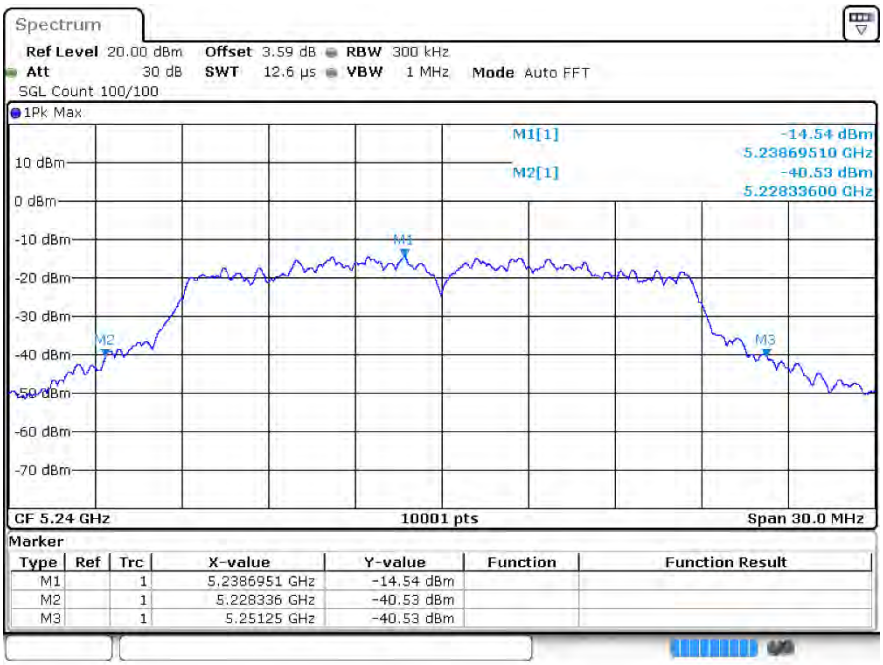
-26dB Bandwidth ac20 5180MHz Ant1



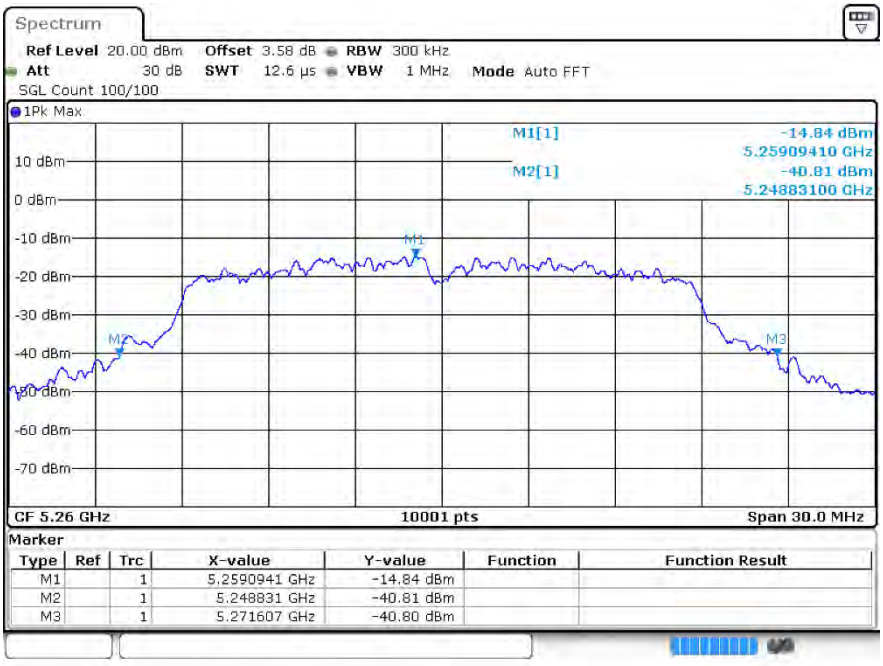
-26dB Bandwidth ac20 5200MHz Ant1



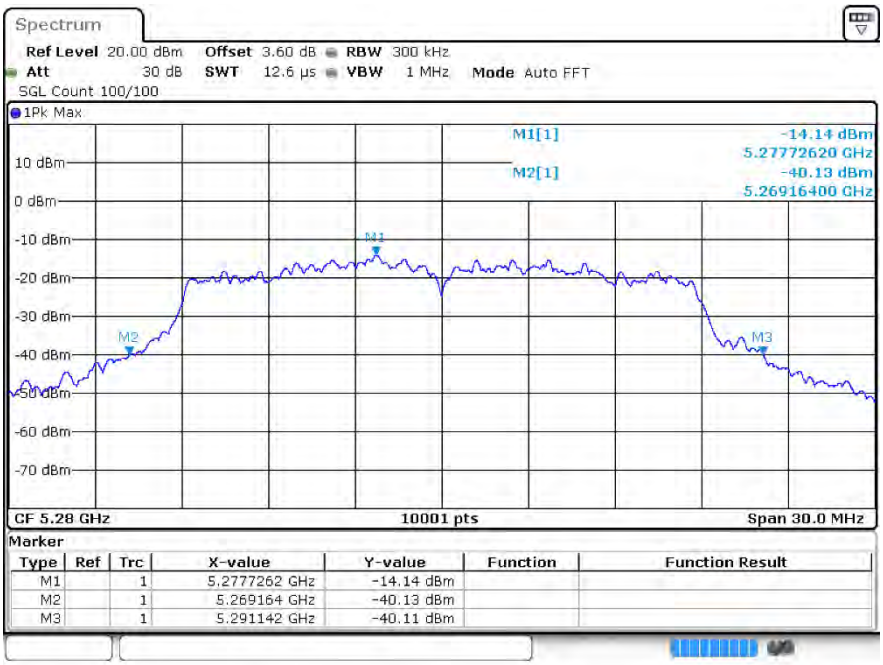
-26dB Bandwidth ac20 5240MHz Ant1



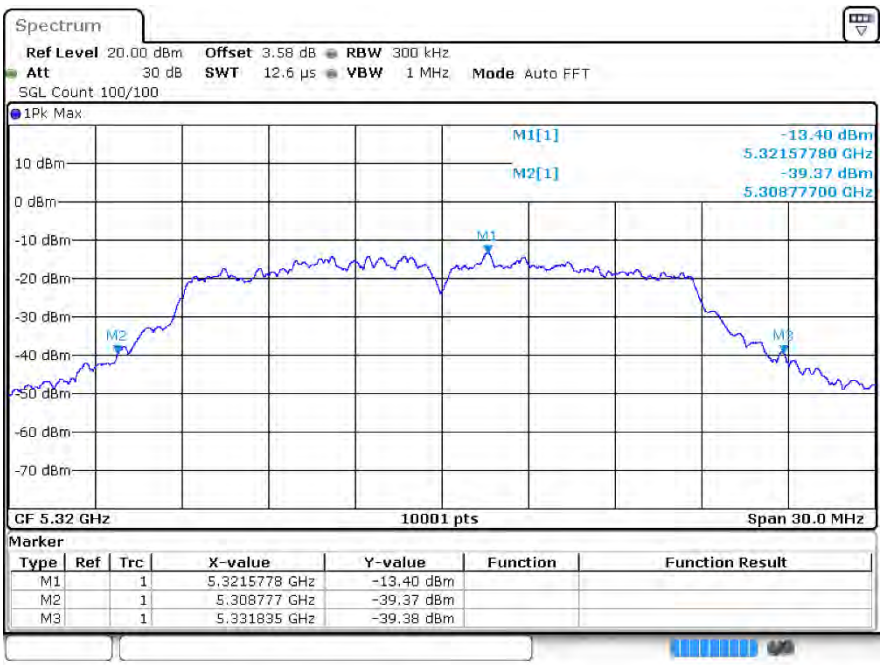
-26dB Bandwidth ac20 5260MHz Ant1



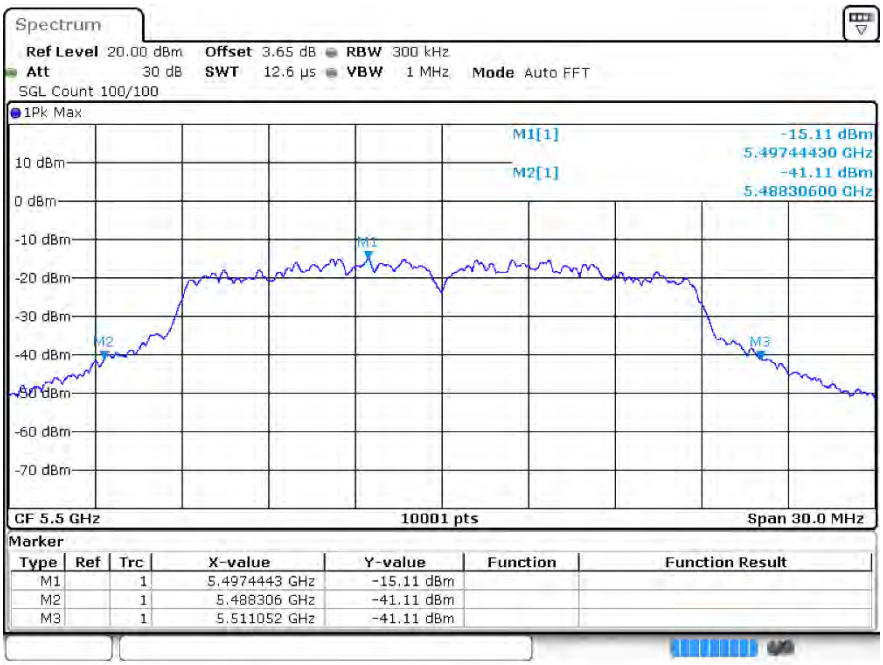
-26dB Bandwidth ac20 5280MHz Ant1



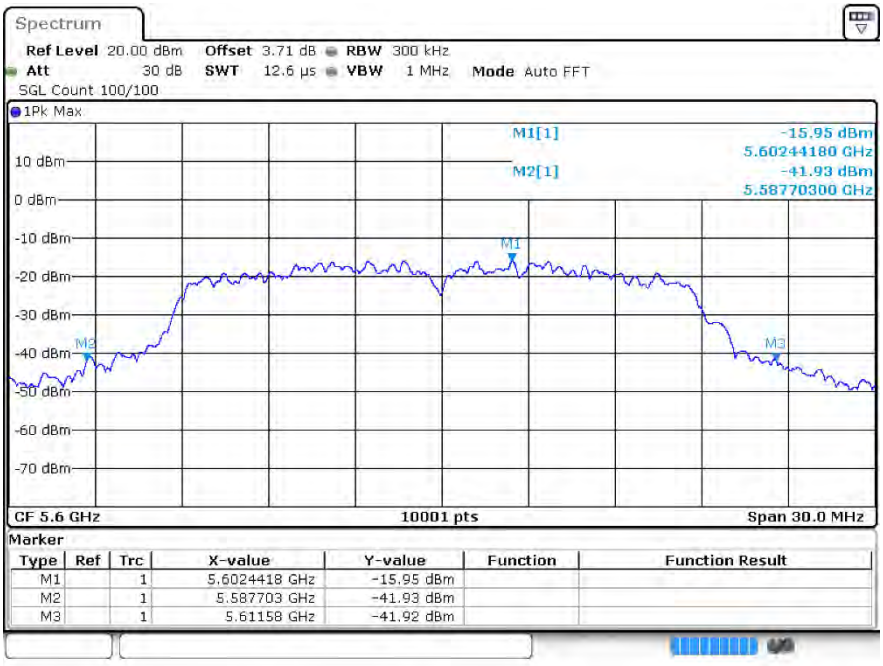
-26dB Bandwidth ac20 5320MHz Ant1



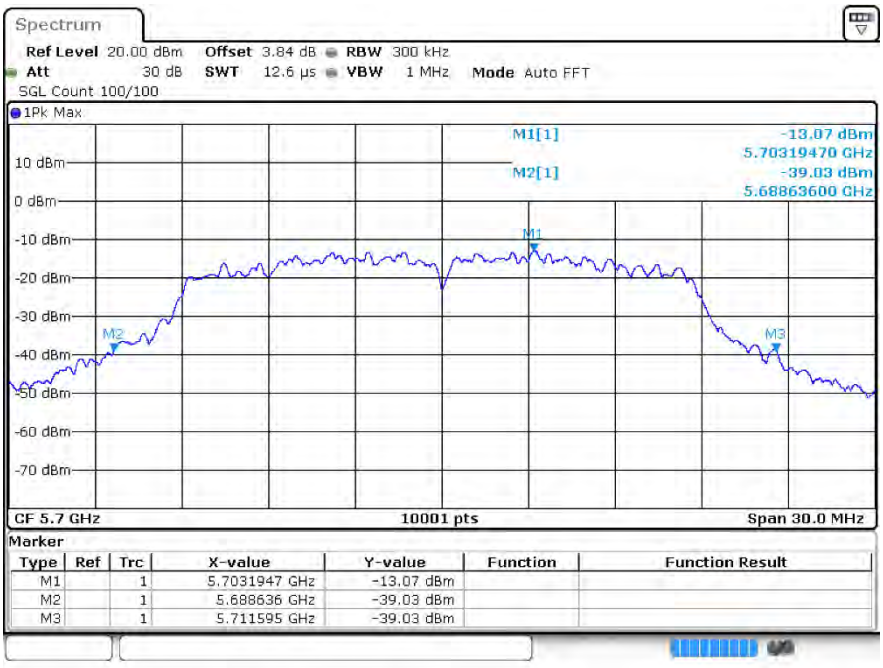
-26dB Bandwidth ac20 5500MHz Ant1



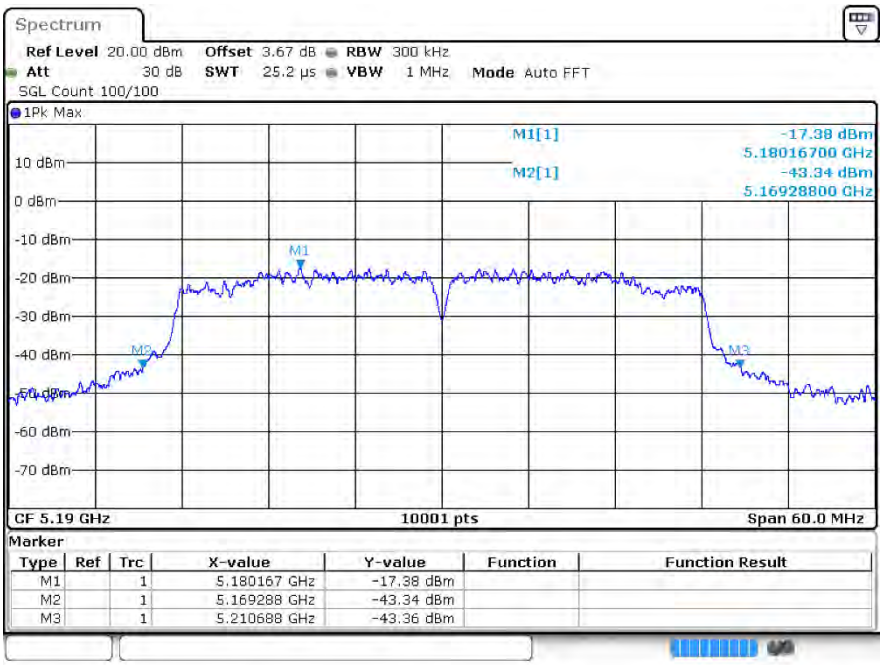
-26dB Bandwidth ac20 5600MHz Ant1



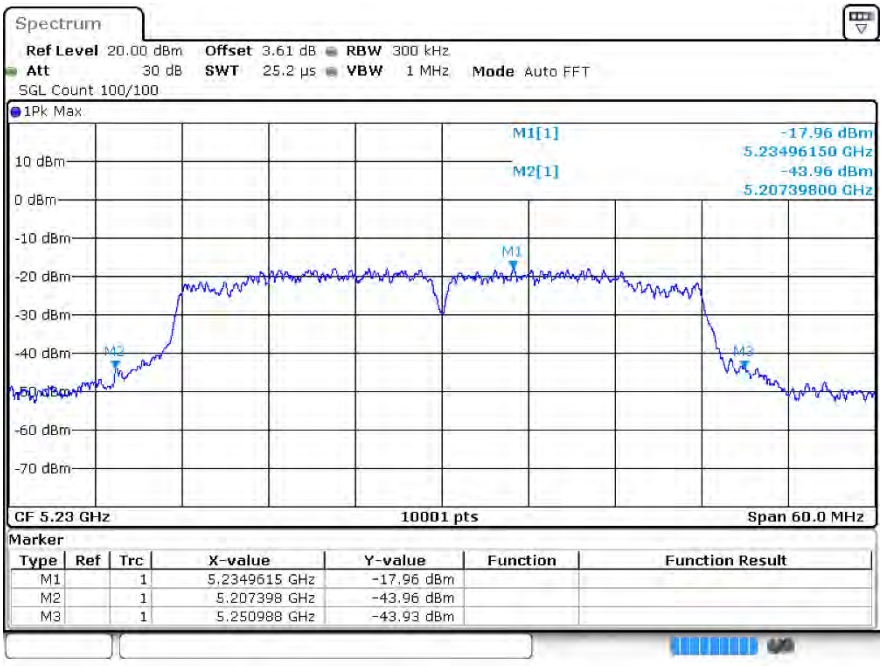
-26dB Bandwidth ac20 5700MHz Ant1



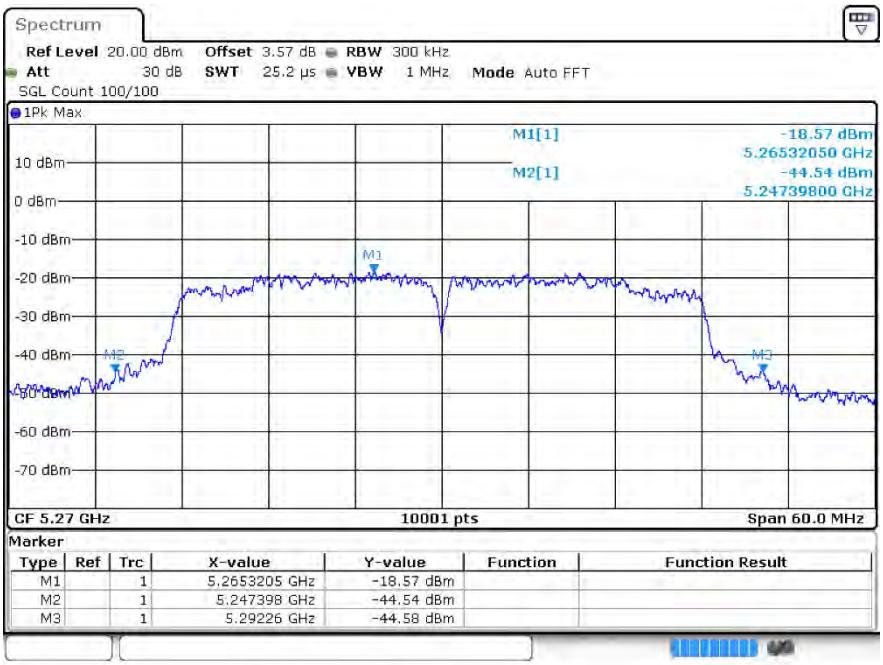
-26dB Bandwidthac40 5190MHz Ant1



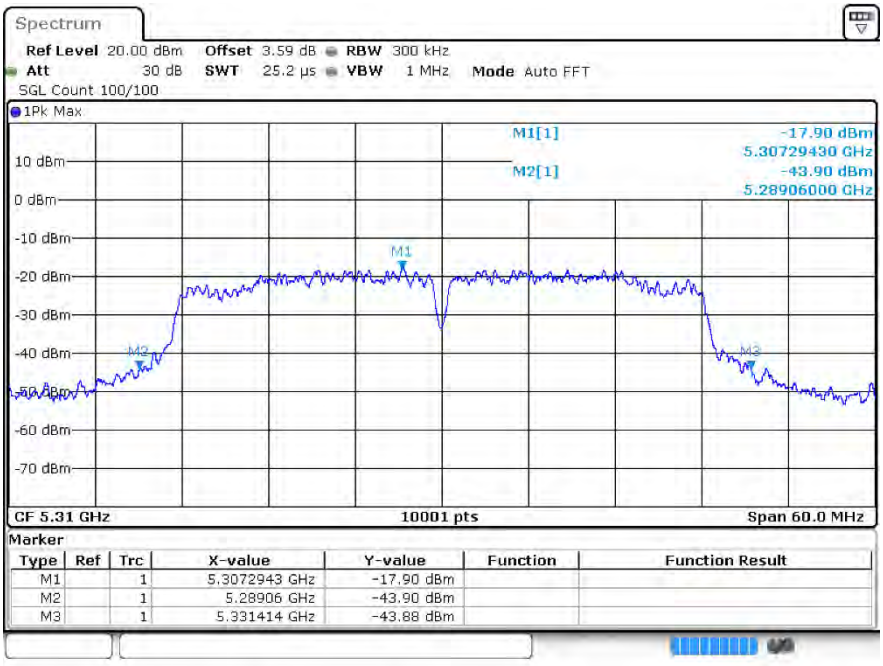
-26dB Bandwidthac40 5230MHz Ant1



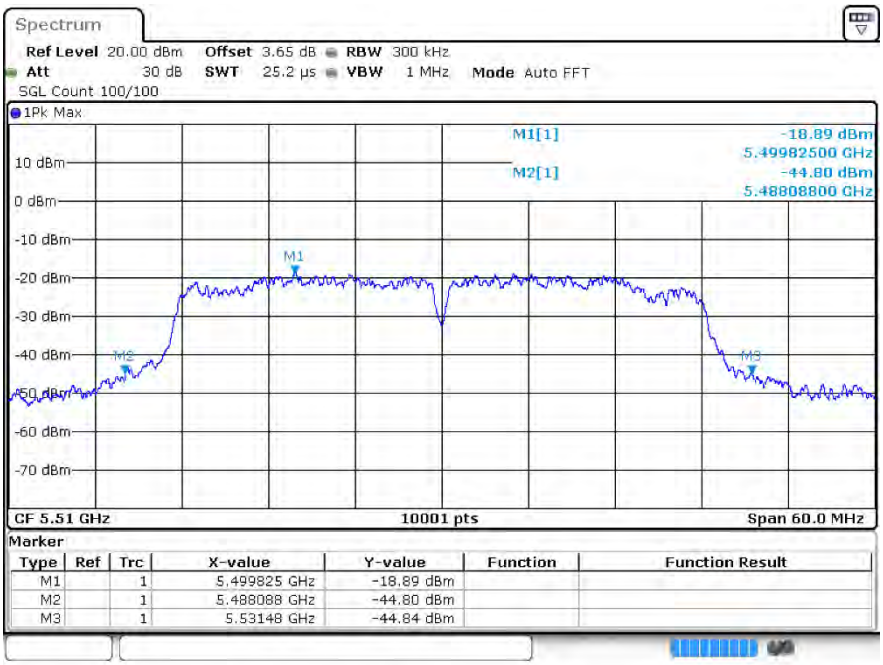
-26dB Bandwidth ac40 5270MHz Ant1



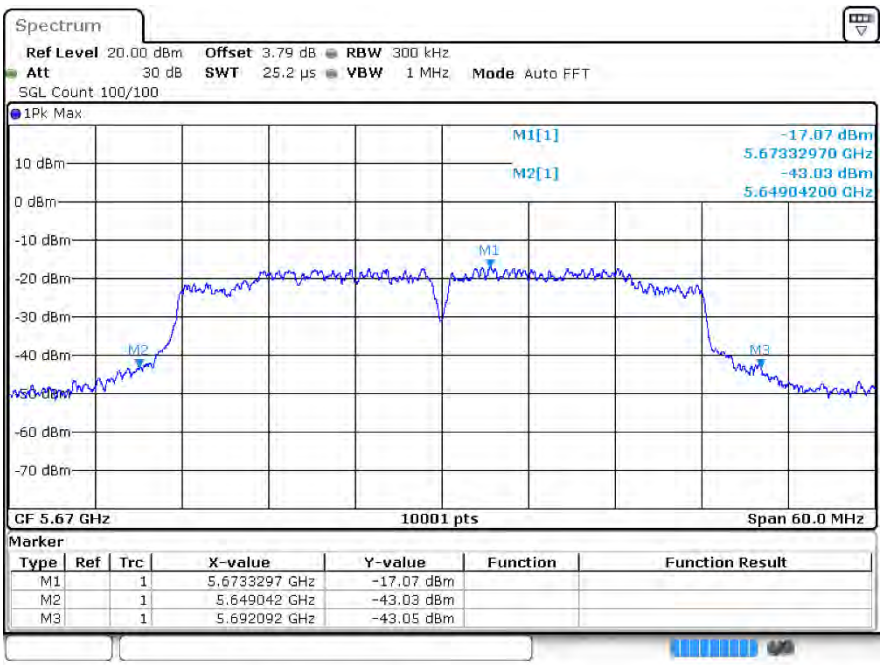
-26dB Bandwidth ac40 5310MHz Ant1



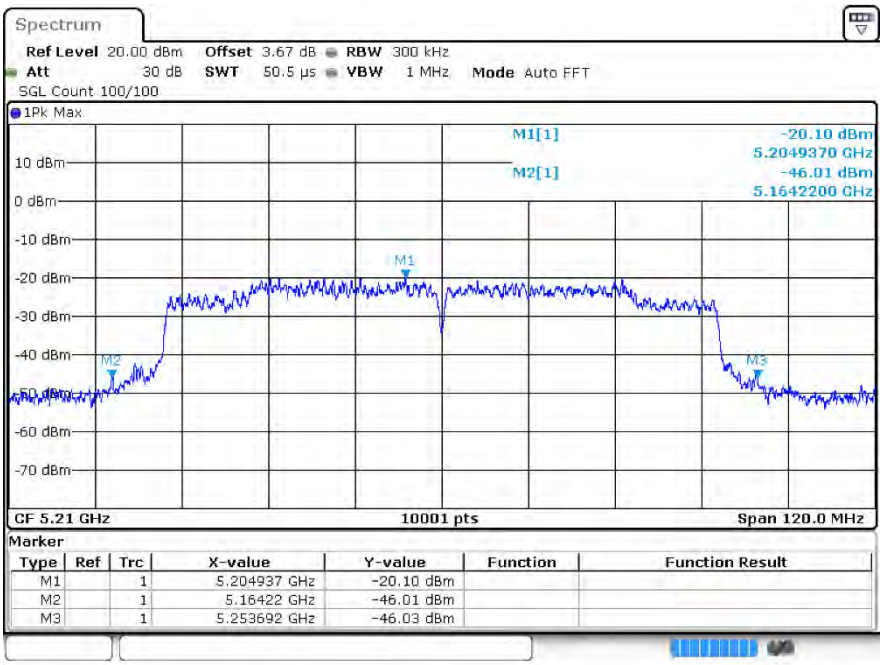
-26dB Bandwidthac40 5510MHz Ant1



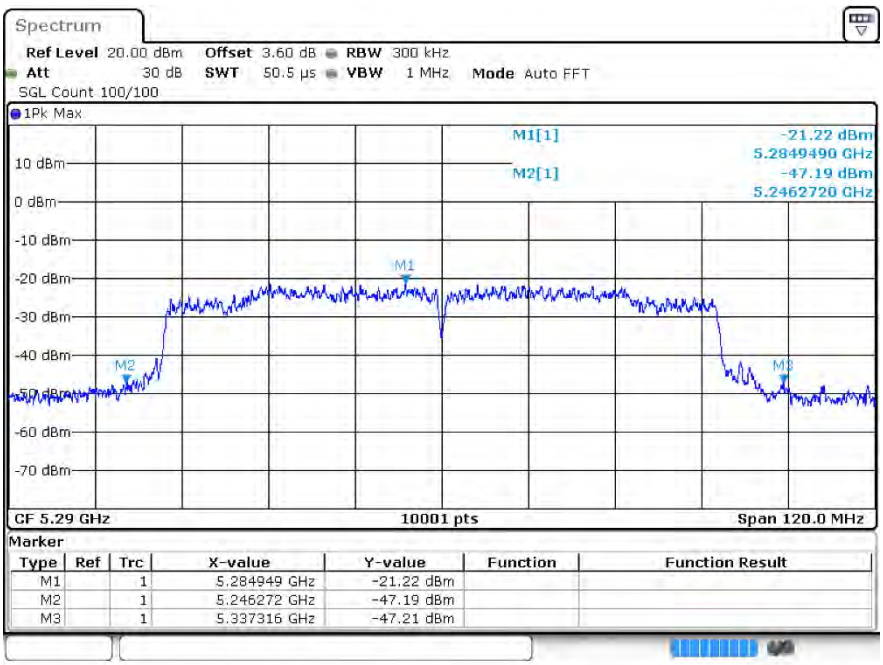
-26dB Bandwidth ac40 5670MHz Ant1



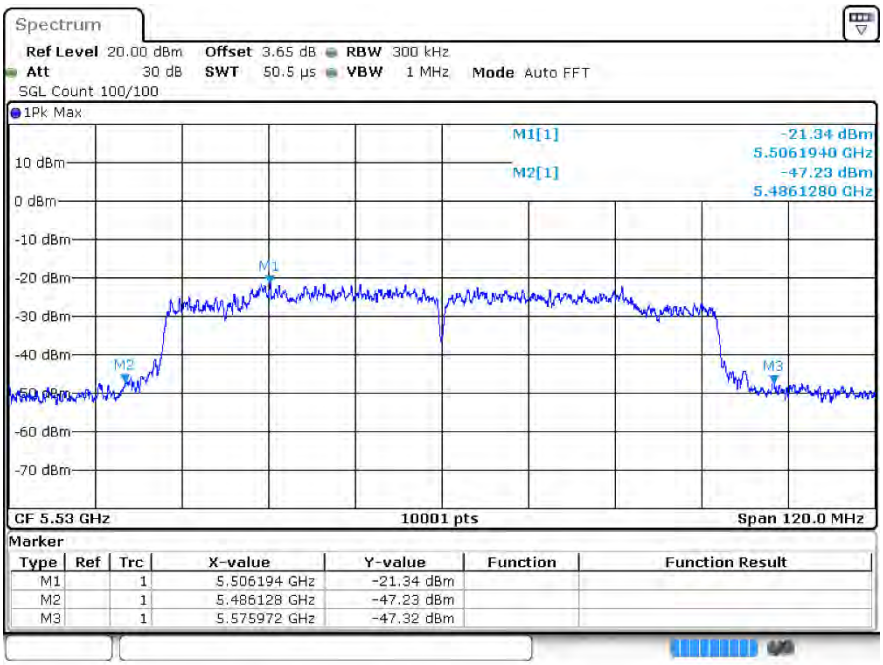
-26dB Bandwidthac80 5210MHz Ant1



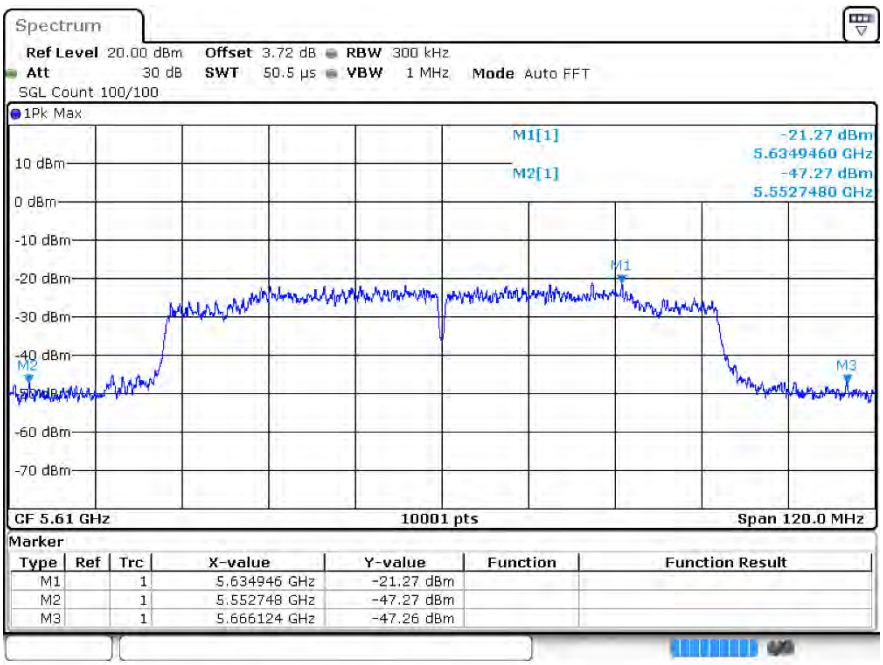
-26dB Bandwidthac80 5290MHz Ant1



-26dB Bandwidth ac80 5530MHz Ant1



-26dB Bandwidthac80 5610MHz Ant1



4 Occupied Channel Bandwidth

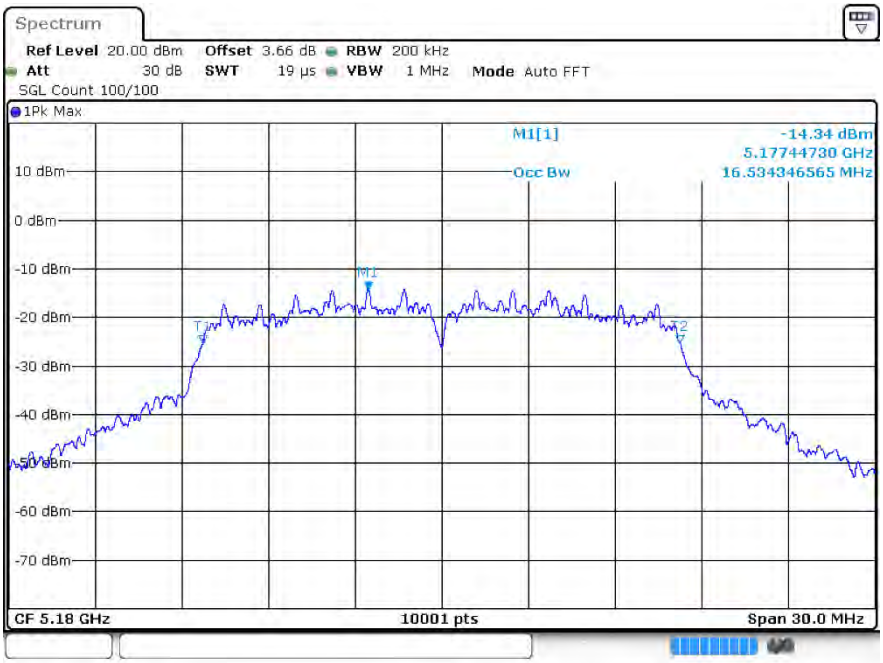
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.534
a	5200	Ant1	16.429
a	5240	Ant1	16.474
a	5260	Ant1	16.465
a	5280	Ant1	16.531
a	5320	Ant1	16.672
a	5500	Ant1	16.561
a	5600	Ant1	16.468
a	5700	Ant1	16.48
n20	5180	Ant1	17.641
n20	5200	Ant1	17.632
n20	5240	Ant1	17.656
n20	5260	Ant1	17.611
n20	5280	Ant1	17.617
n20	5320	Ant1	17.635
n20	5500	Ant1	17.641
n20	5600	Ant1	17.791
n20	5700	Ant1	17.575
n40	5190	Ant1	35.93
n40	5230	Ant1	36.104
n40	5270	Ant1	36.056
n40	5310	Ant1	36.008
n40	5510	Ant1	36.032
n40	5670	Ant1	36.026
ac20	5180	Ant1	17.662
ac20	5200	Ant1	17.644
ac20	5240	Ant1	17.602
ac20	5260	Ant1	17.542
ac20	5280	Ant1	17.653
ac20	5320	Ant1	17.638
ac20	5500	Ant1	17.563
ac20	5600	Ant1	17.608
ac20	5700	Ant1	17.593
ac40	5190	Ant1	36.116
ac40	5230	Ant1	36.104
ac40	5270	Ant1	36.188

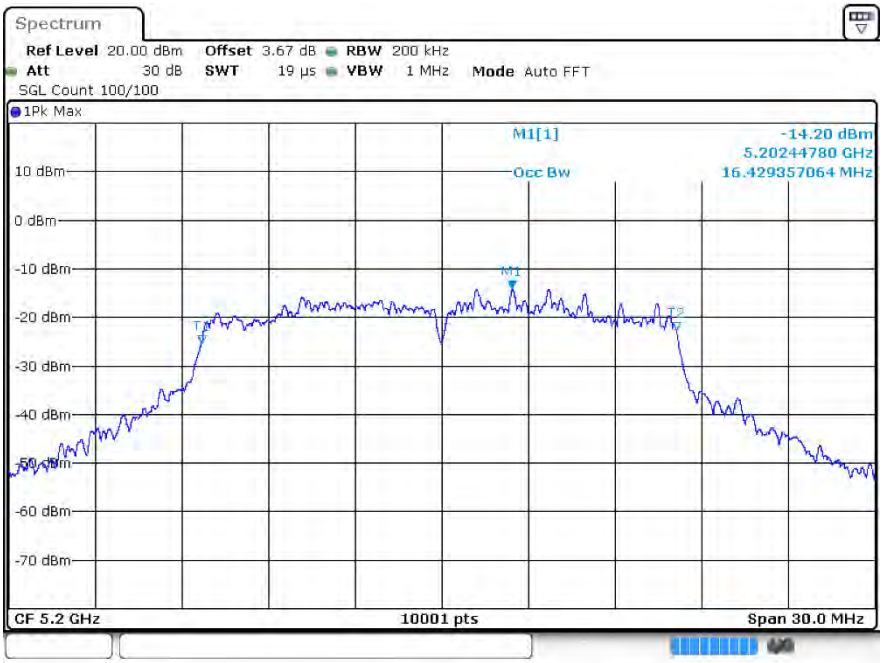
ac40	5310	Ant1	36.086
ac40	5510	Ant1	36.122
ac40	5670	Ant1	35.996
ac80	5210	Ant1	75.148
ac80	5290	Ant1	75.568
ac80	5530	Ant1	75.328
ac80	5610	Ant1	75.604

4.2 Test Graphs

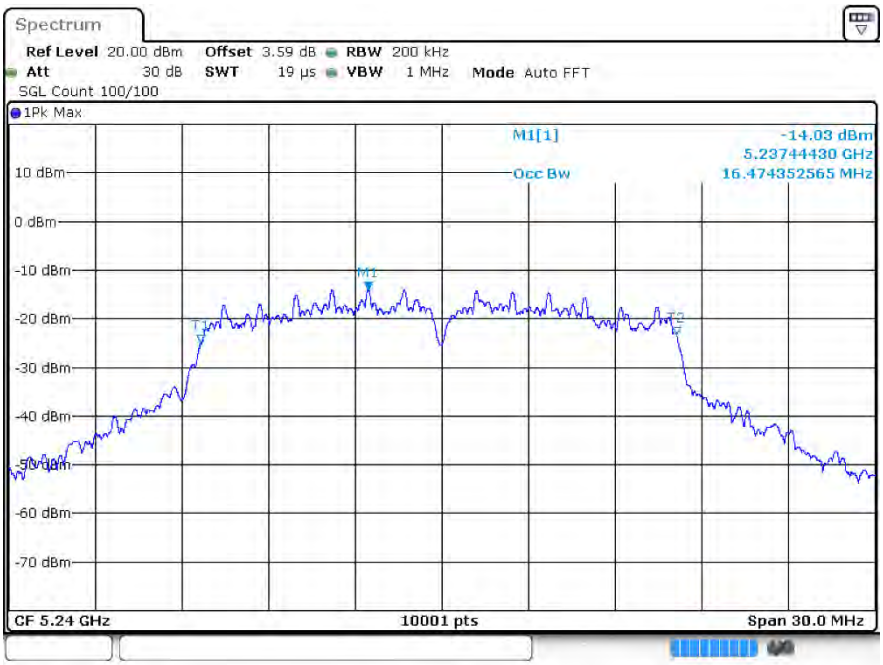
Test Graphs
OBWa 5180MHz Ant1



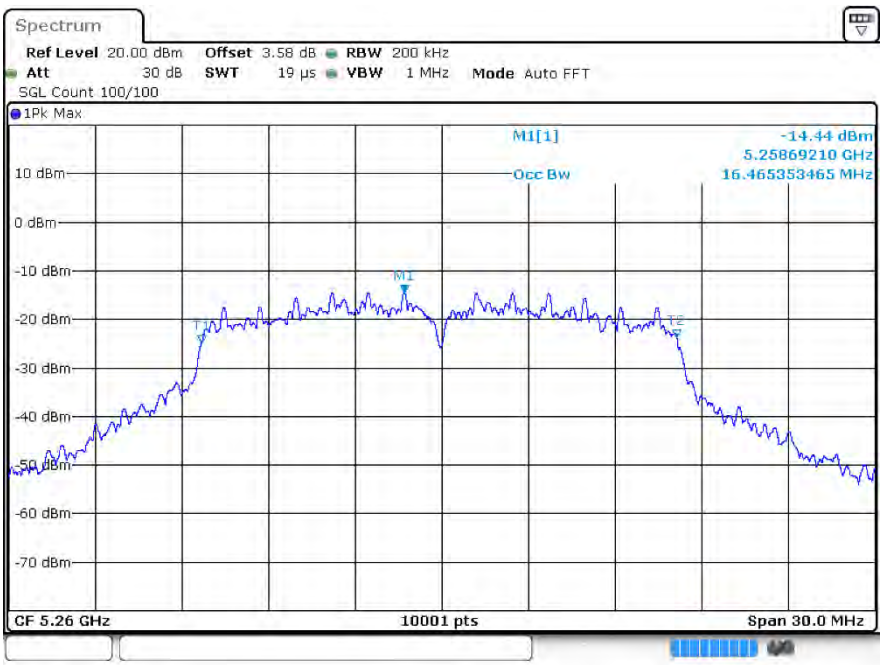
OBWa 5200MHz Ant1



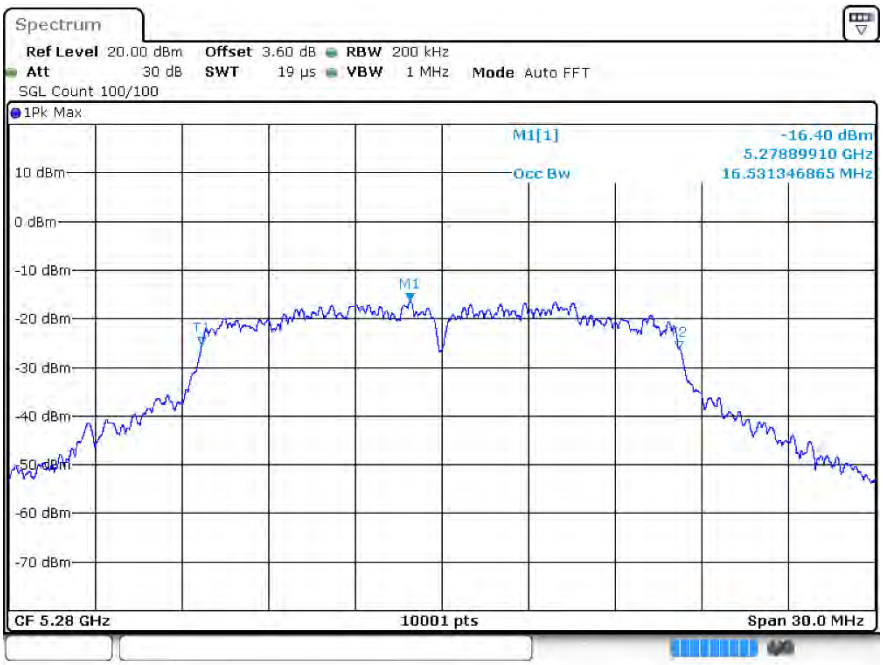
OBWa 5240MHz Ant1



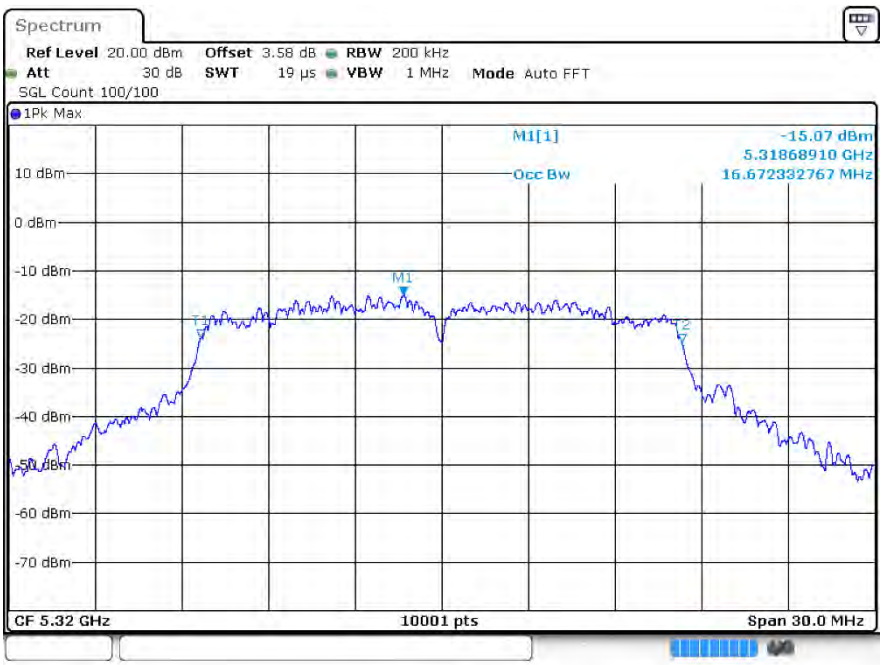
OBWa 5260MHz Ant1



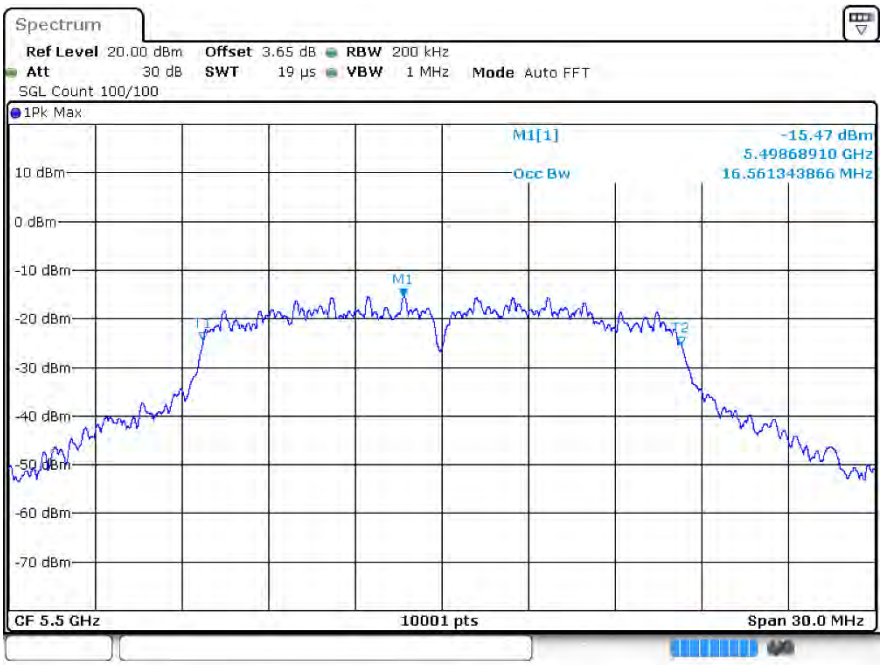
OBWa 5280MHz Ant1



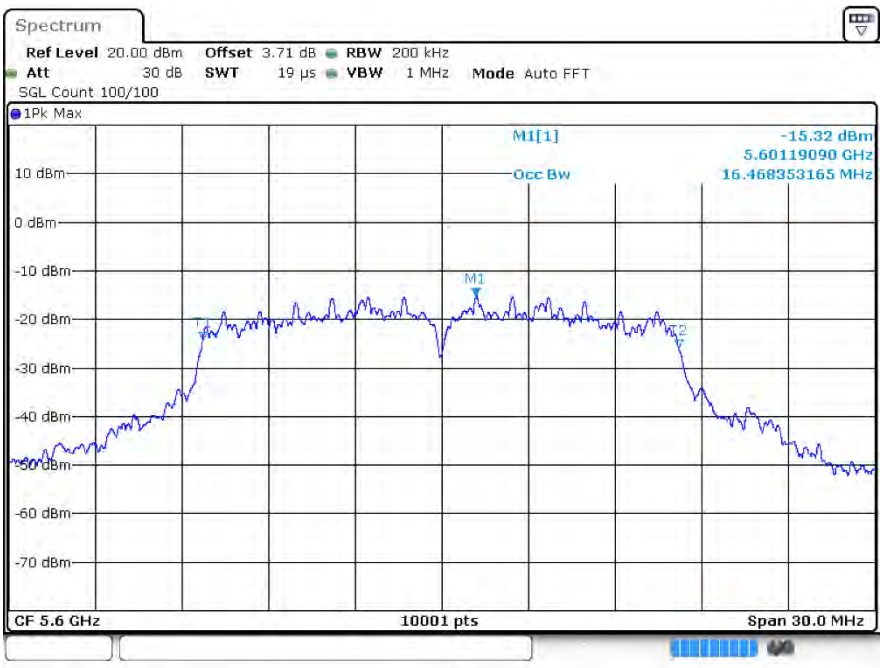
OBW a 5320MHz Ant1



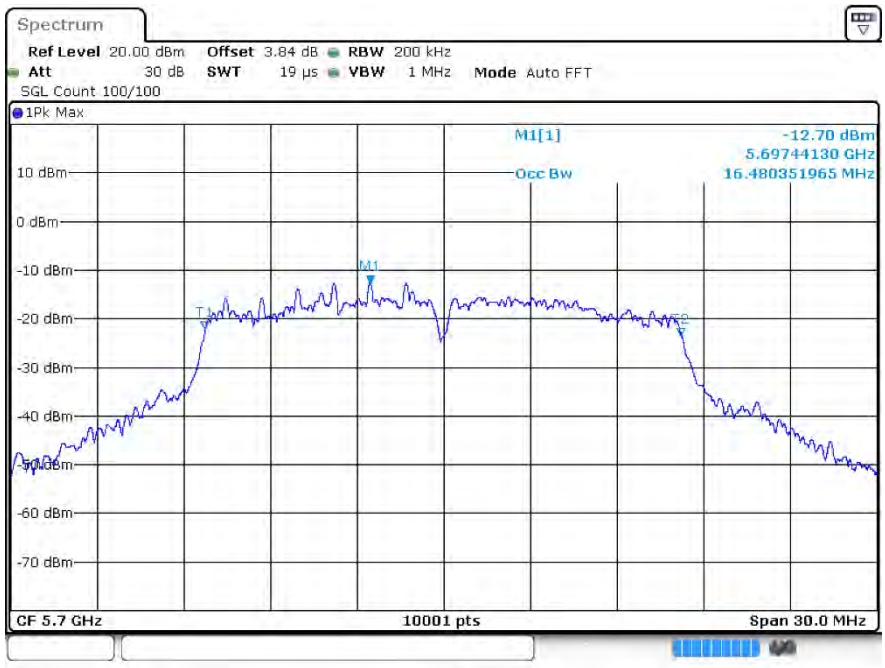
OBWa 5500MHz Ant1



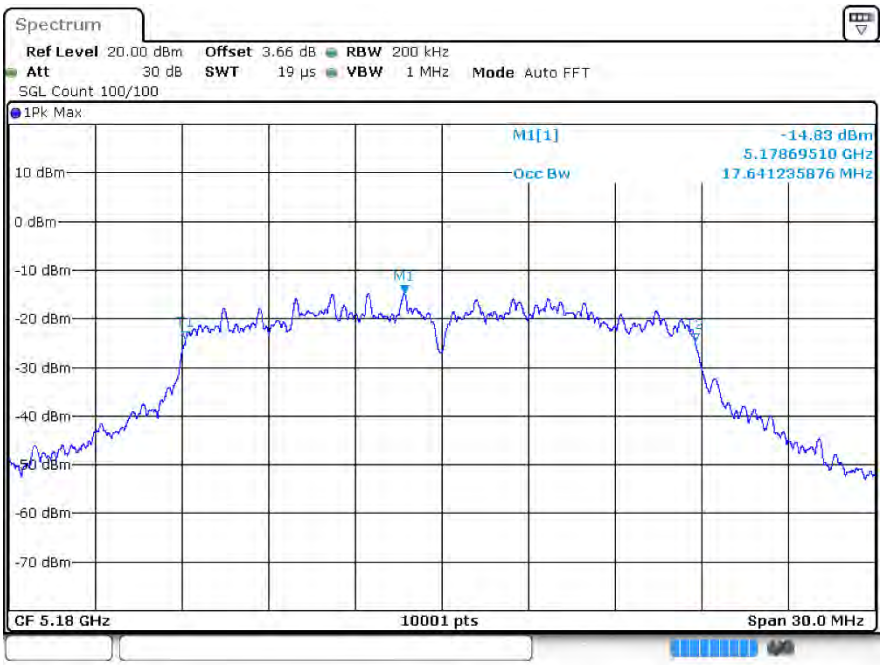
OBWa 5600MHz Ant1



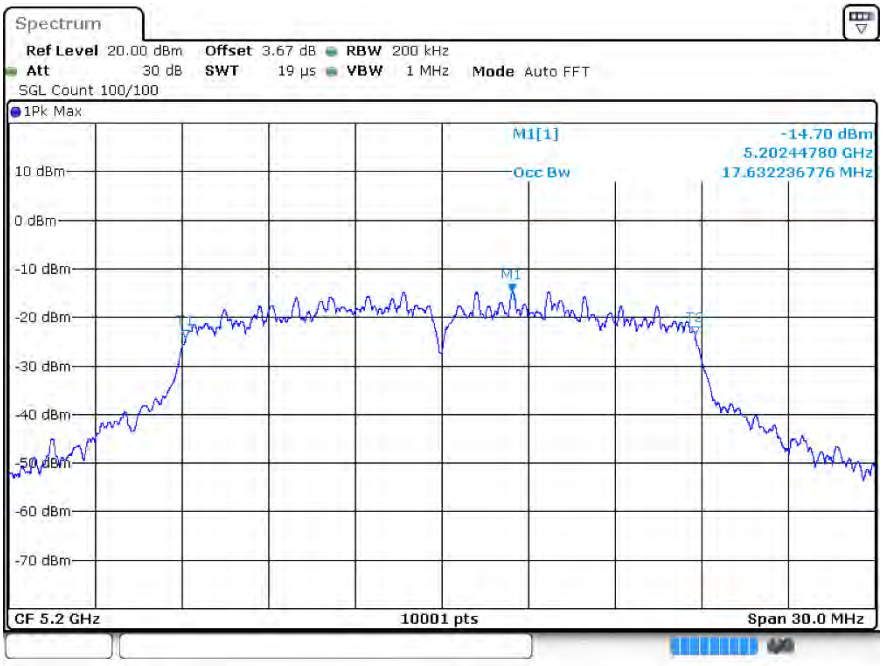
OBW a 5700MHz Ant1



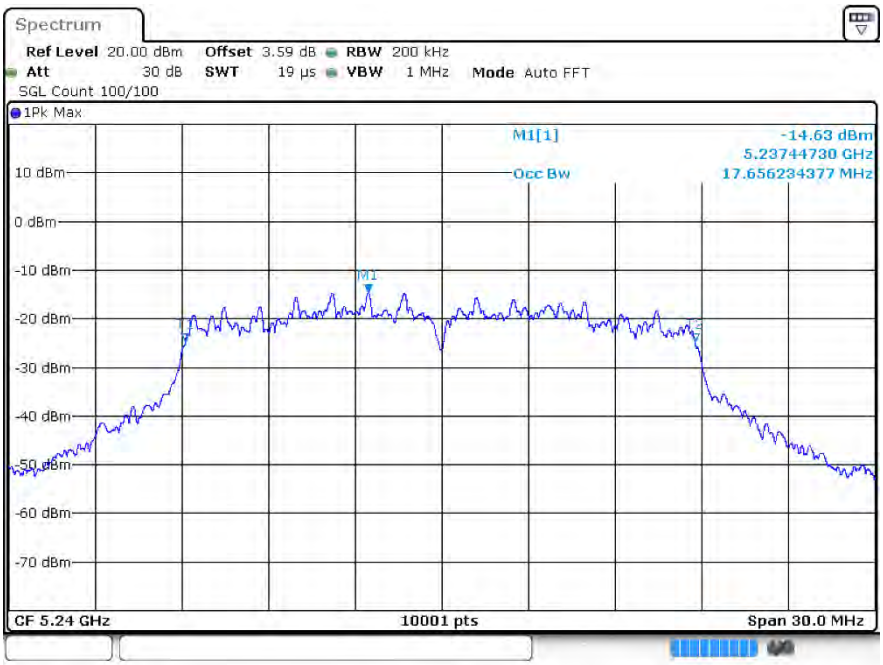
OBW n20 5180MHz Ant1



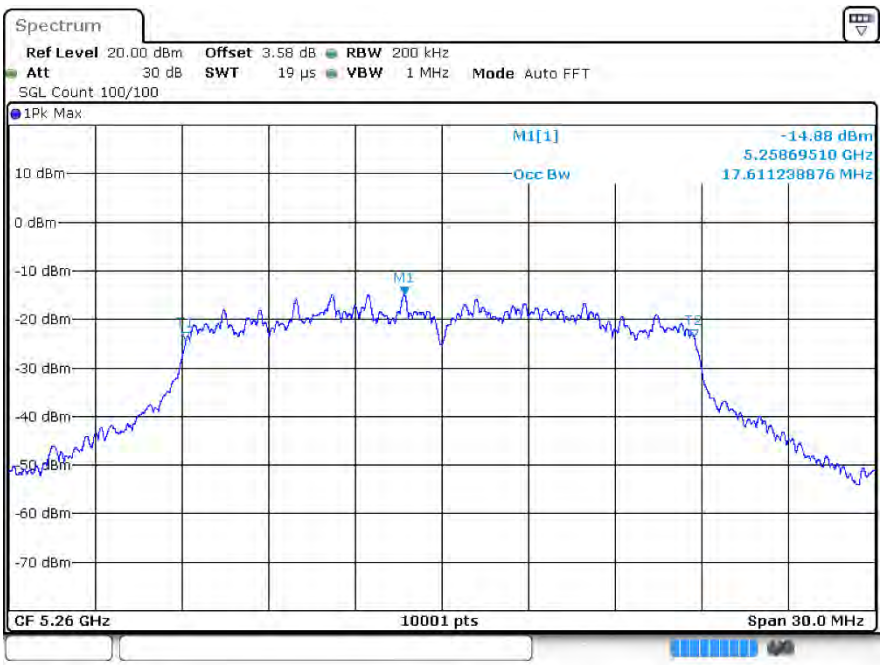
OBW n20 5200MHz Ant1



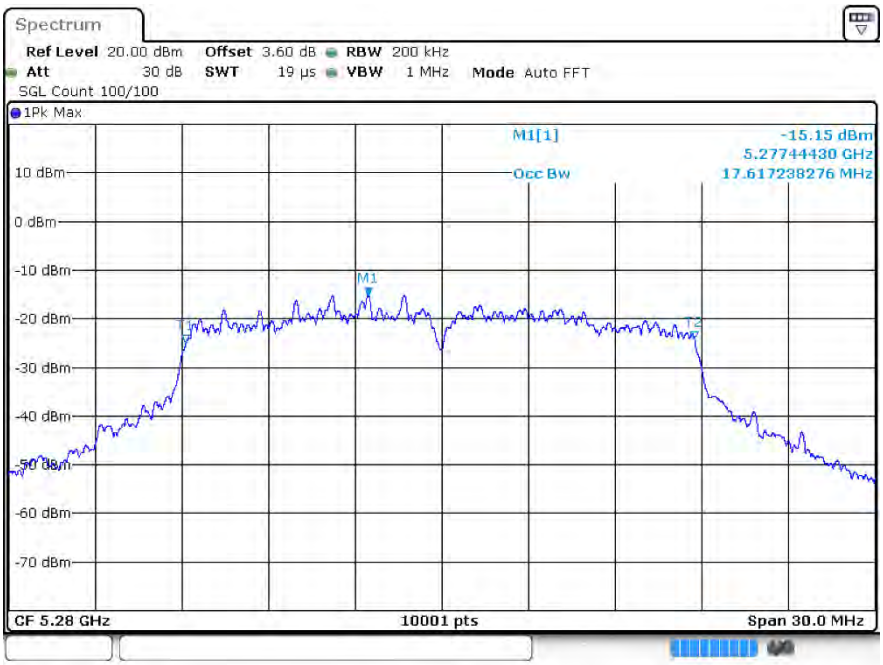
OBW n20 5240MHz Ant1



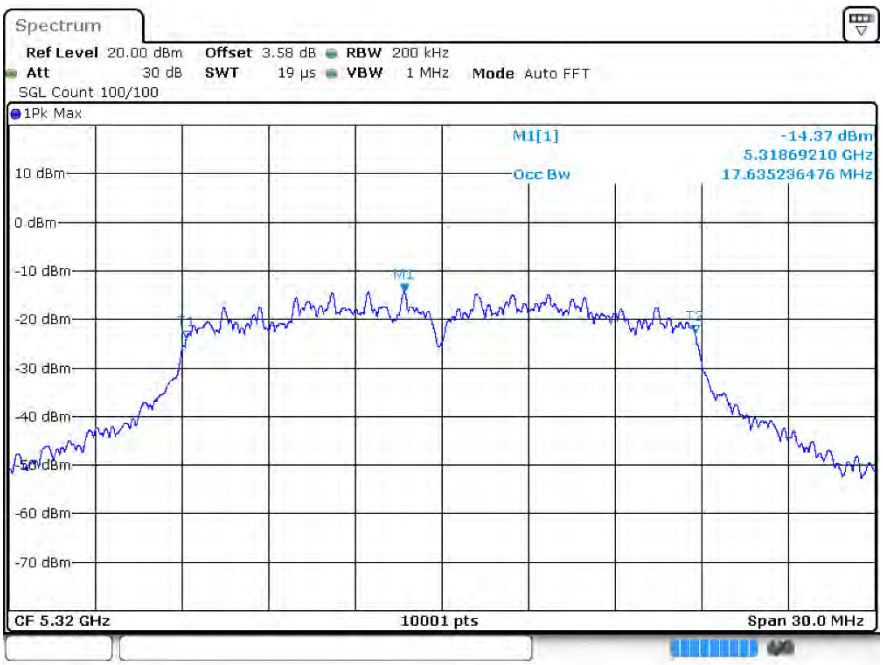
OBW n20 5260MHz Ant1



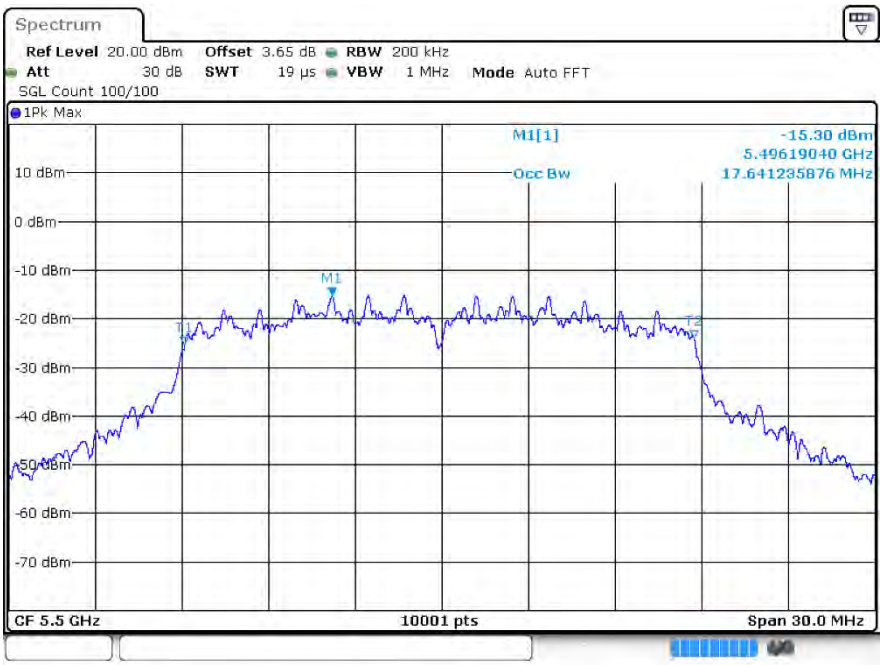
OBW n20 5280MHz Ant1



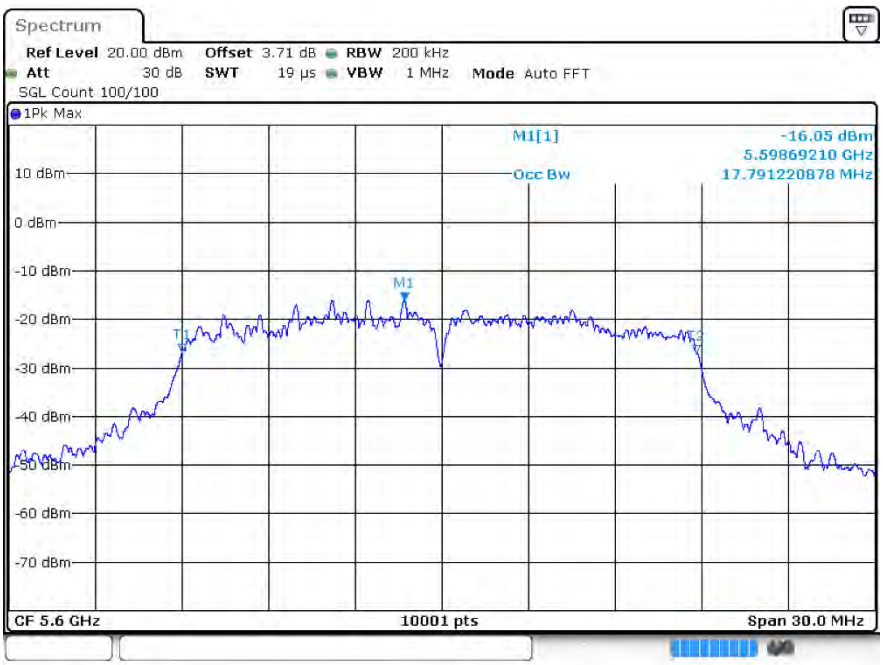
OBW n20 5320MHz Ant1



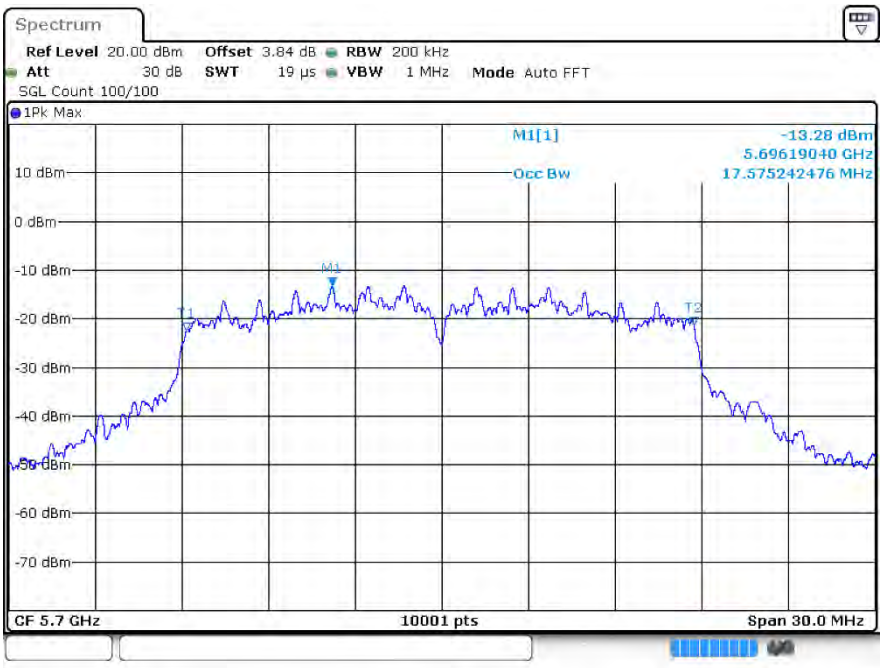
OBW n20 5500MHz Ant1



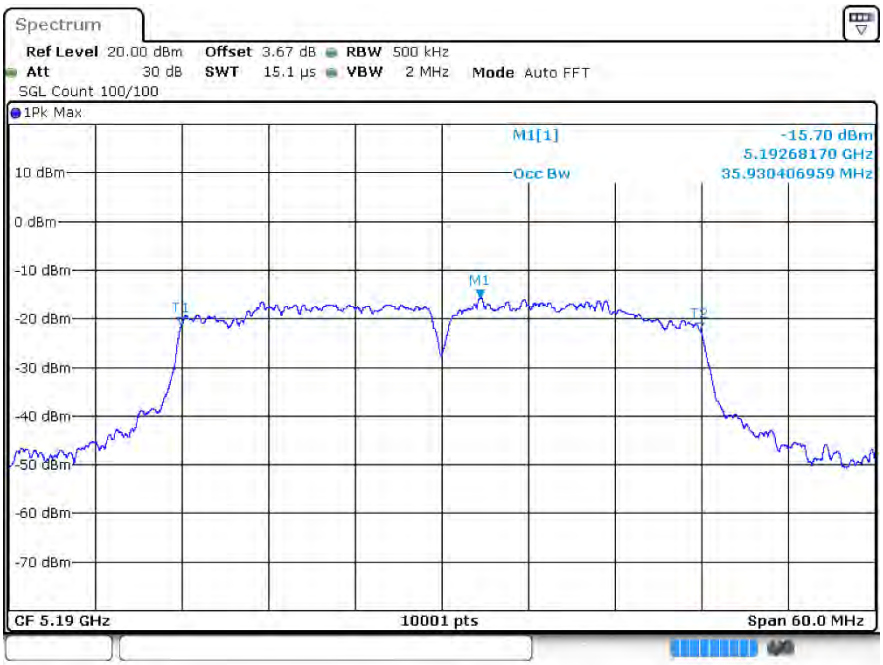
OBW n20 5600MHz Ant1



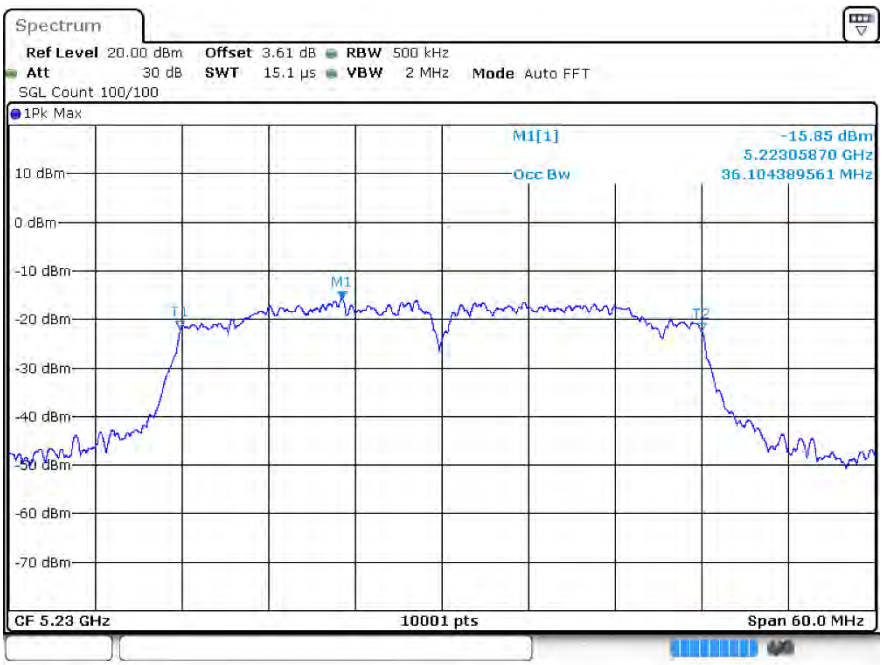
OBW n20 5700MHz Ant1



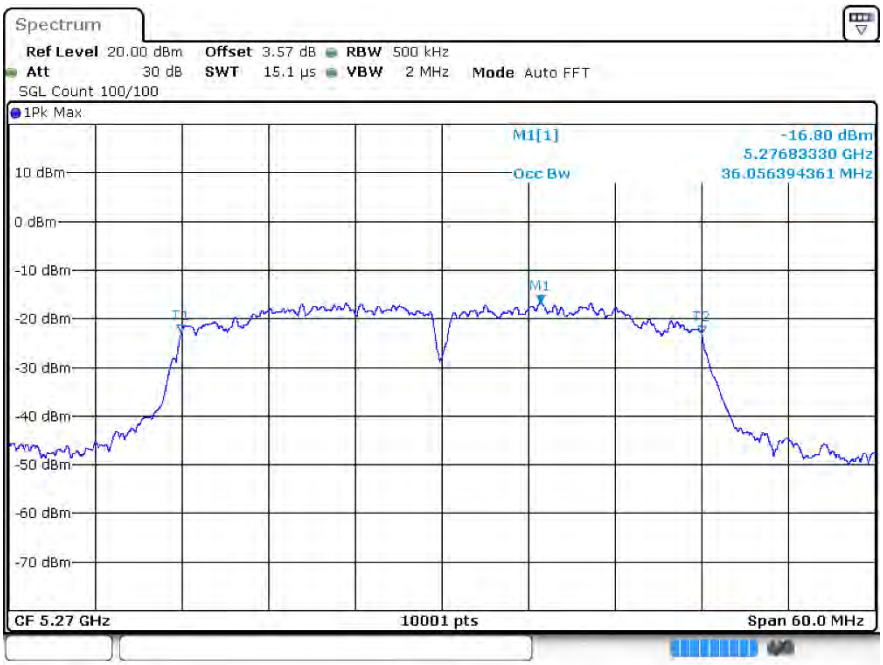
OBWn40 5190MHz Ant1



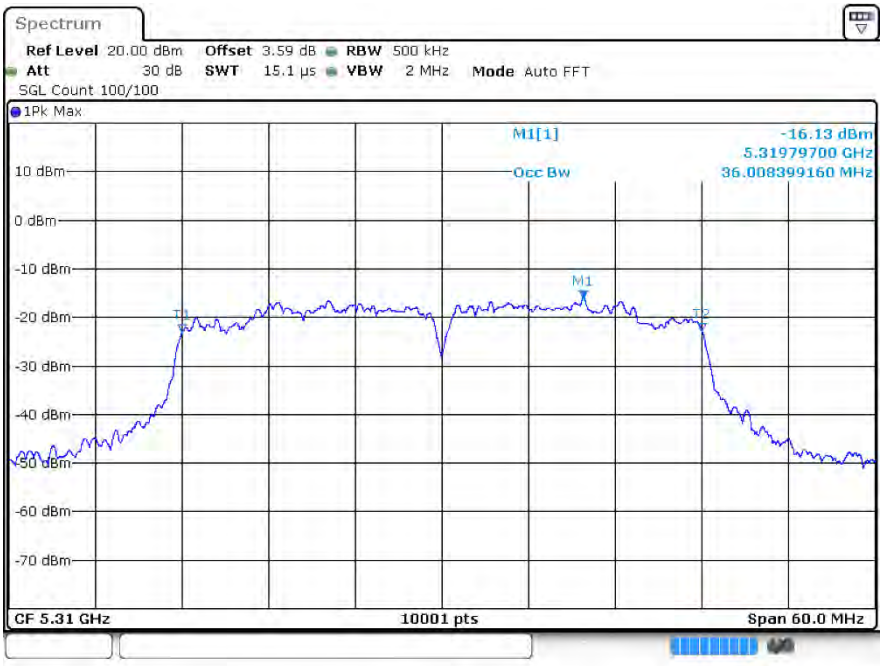
OBWn40 5230MHz Ant1



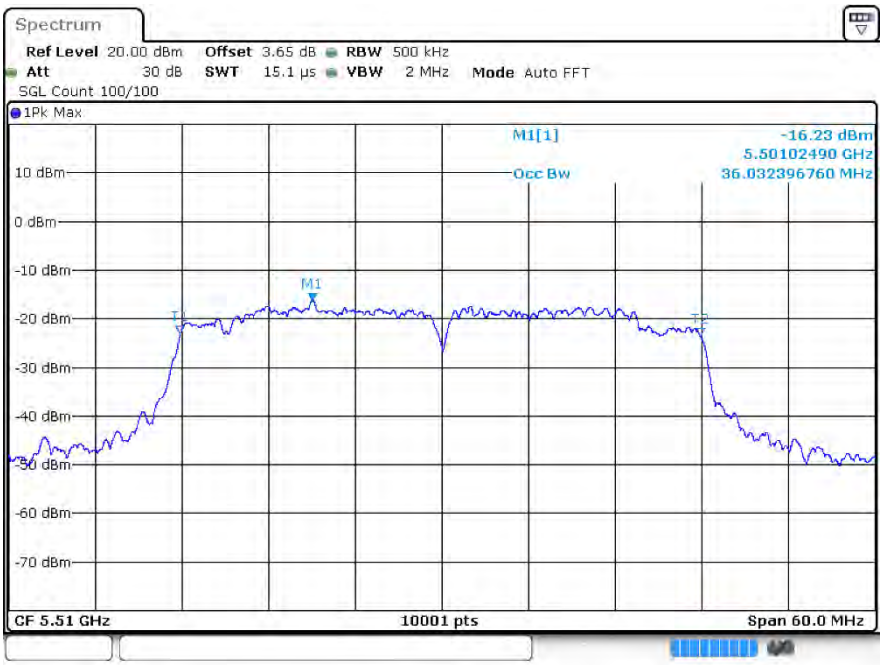
OBW n40 5270MHz Ant1



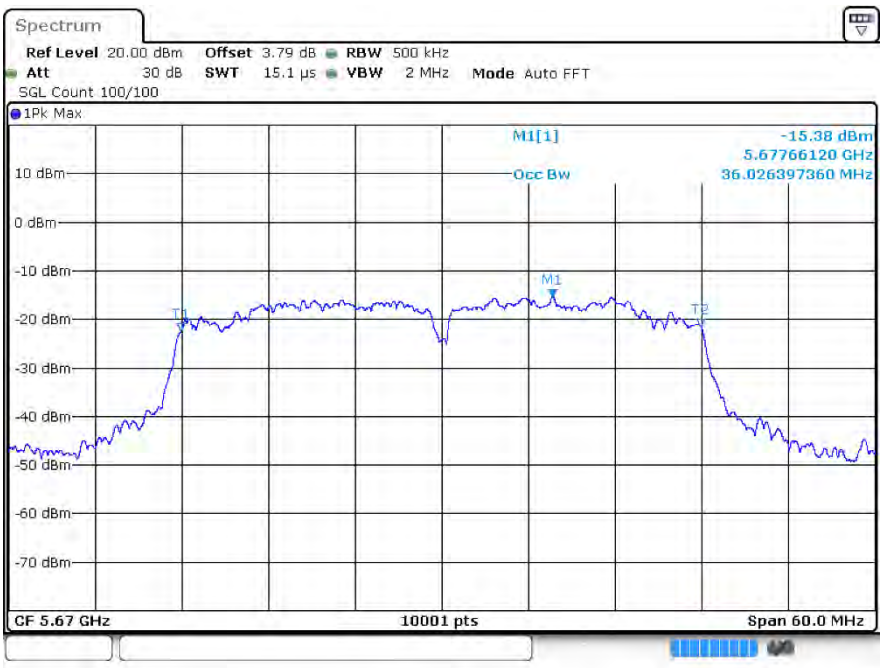
OBW n40 5310MHz Ant1



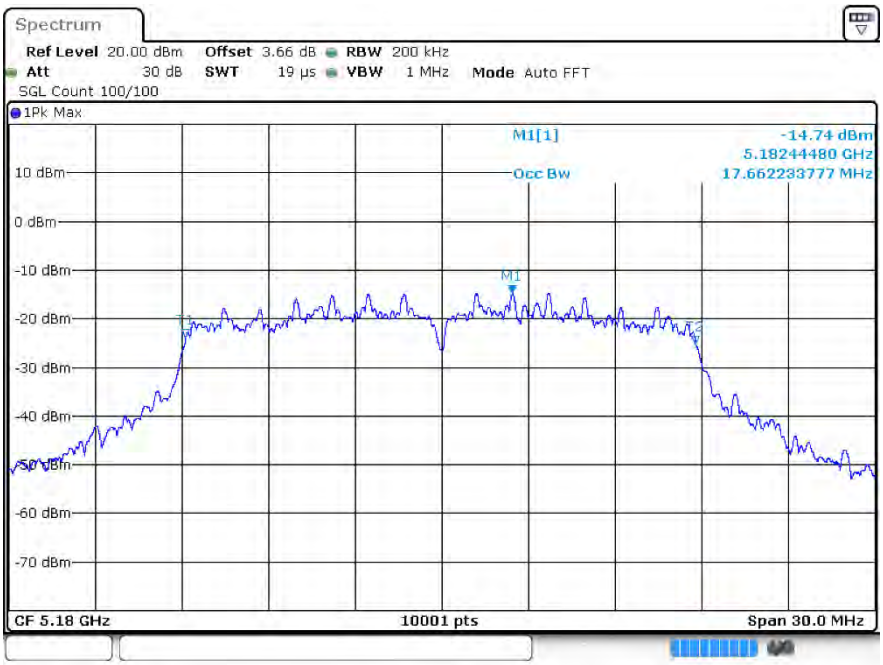
OBWn40 5510MHz Ant1



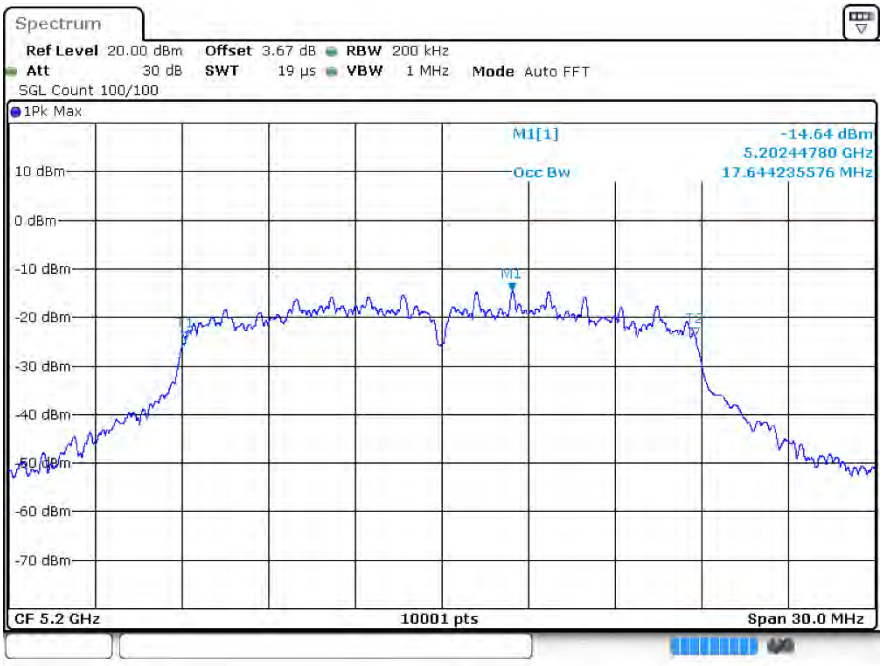
OBW n40 5670MHz Ant1



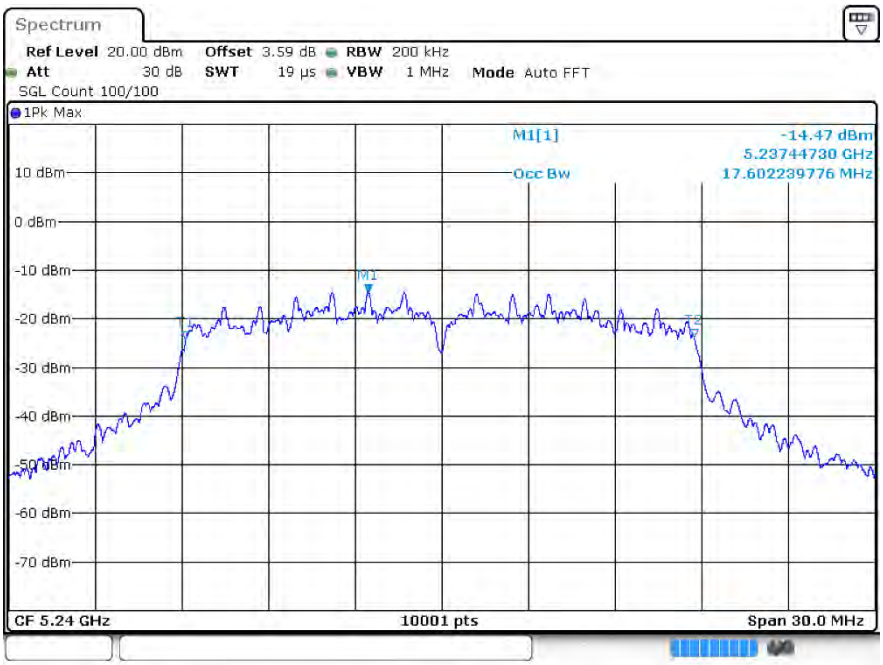
OBW ac20 5180MHz Ant1



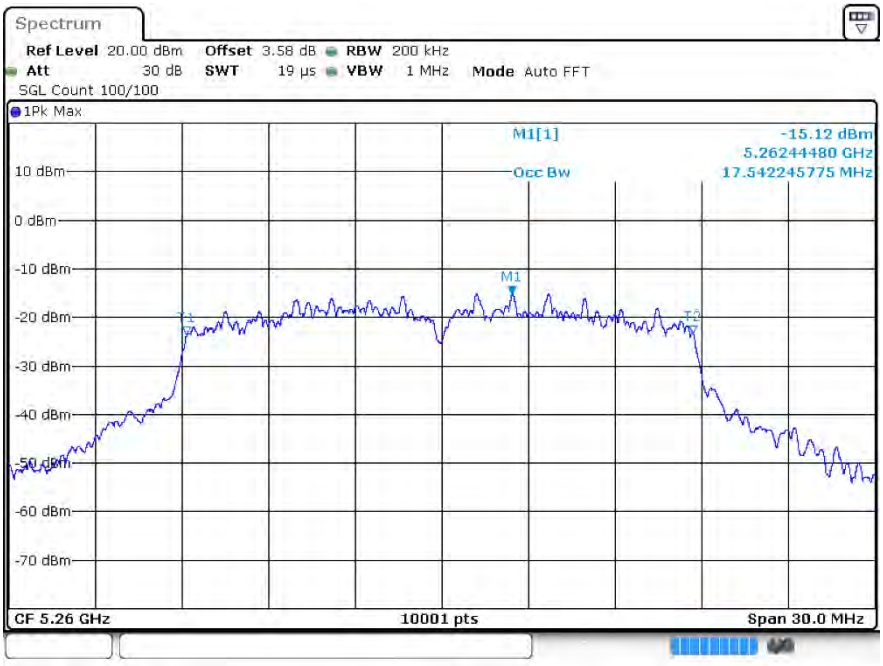
OBW ac20 5200MHz Ant1



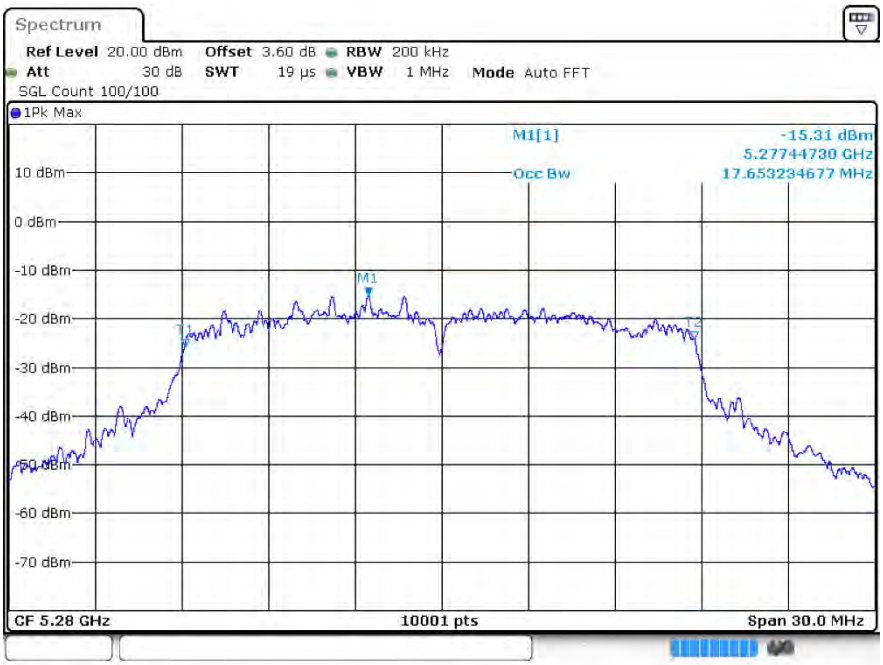
OBW ac20 5240MHz Ant1



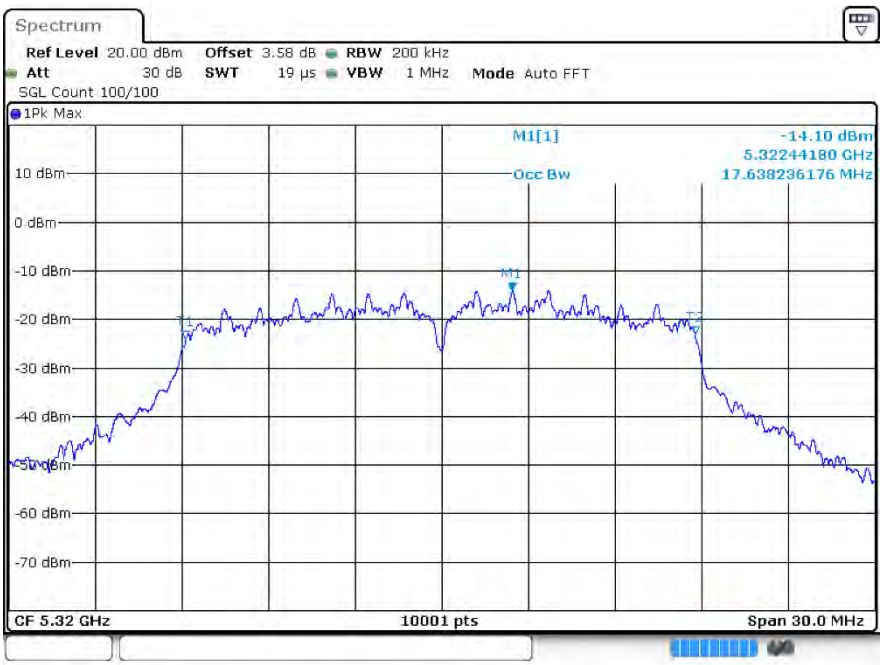
OBW ac20 5260MHz Ant1



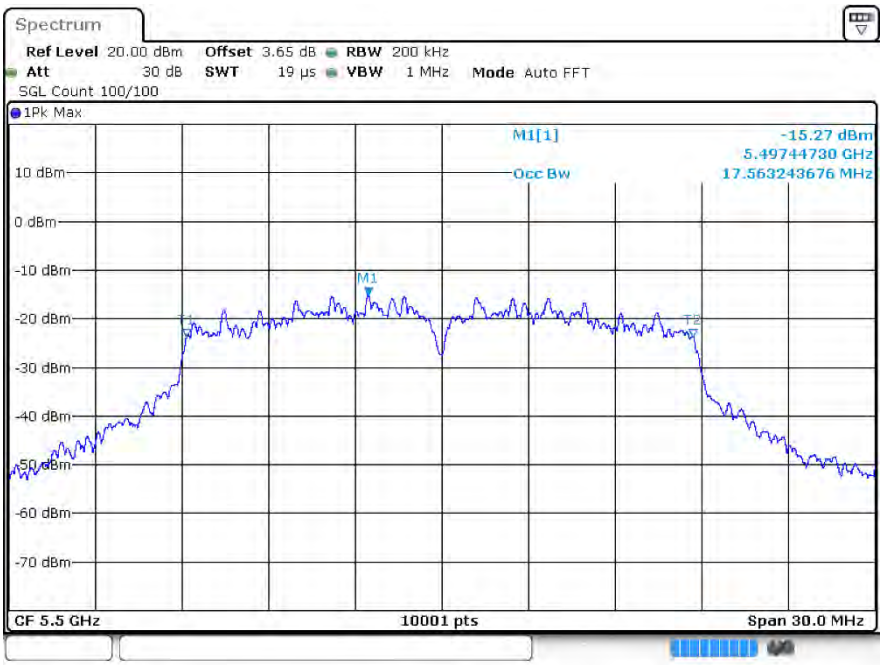
OBW ac20 5280MHz Ant1



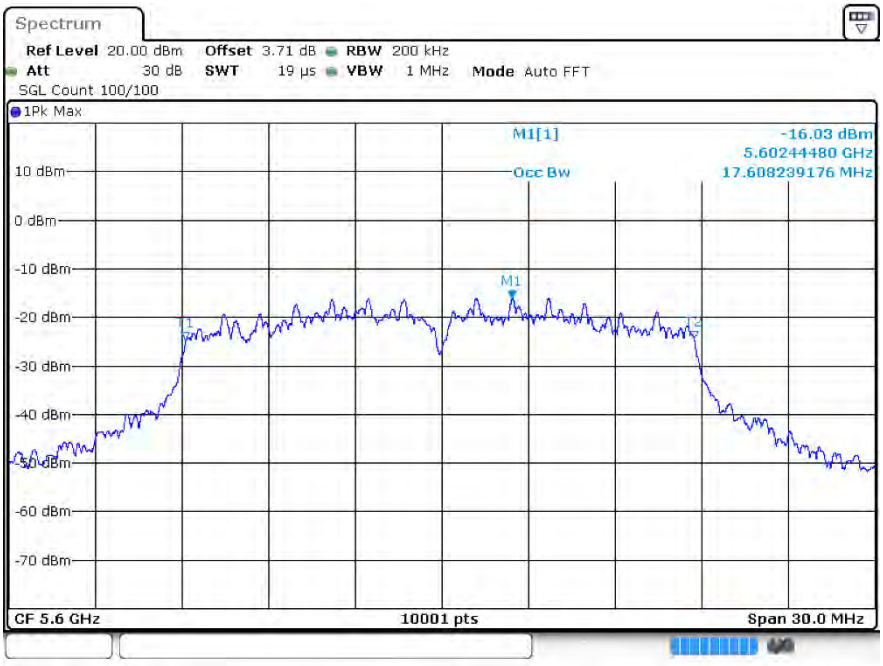
OBW ac20 5320MHz Ant1



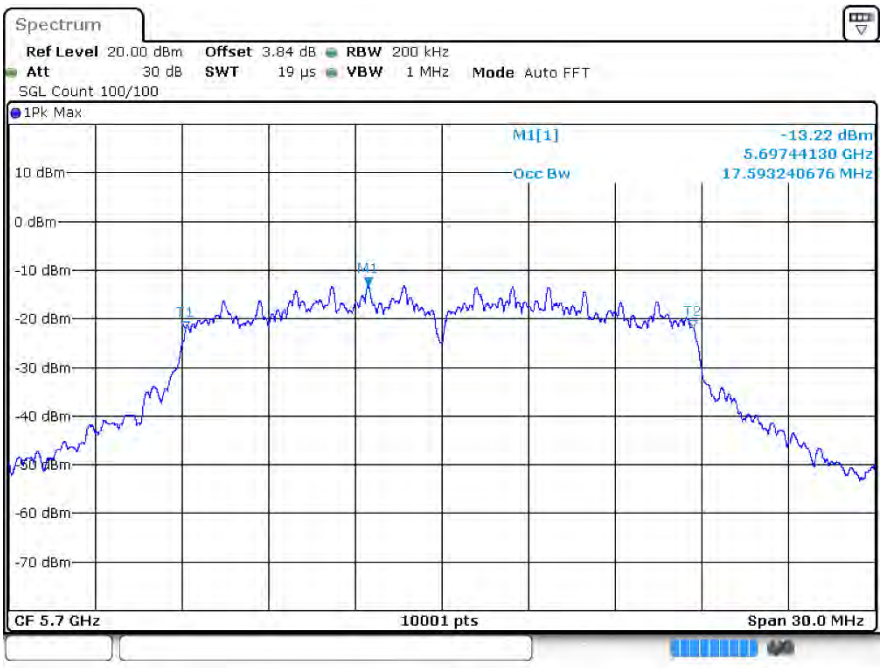
OBW ac20 5500MHz Ant1



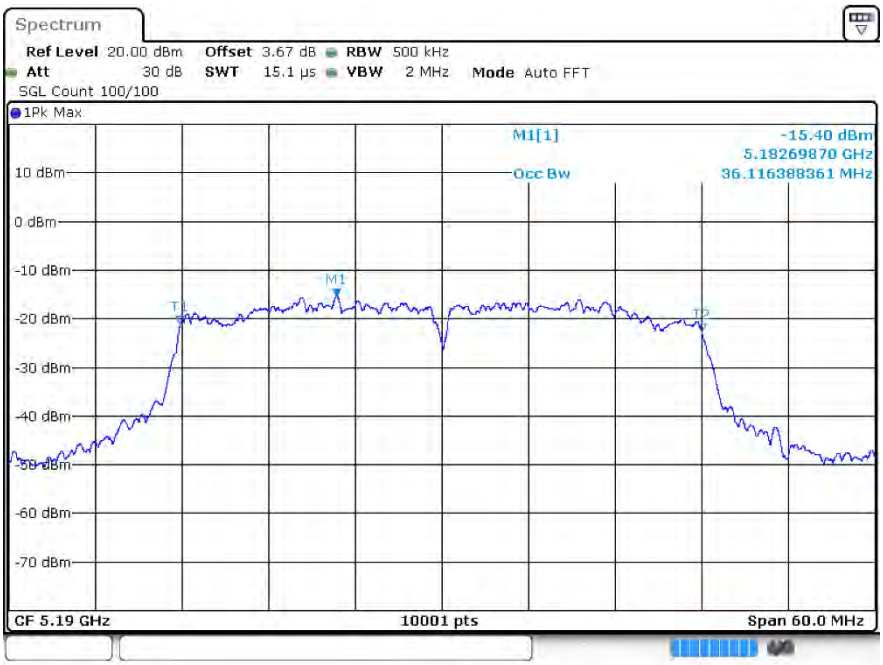
OBW ac20 5600MHz Ant1



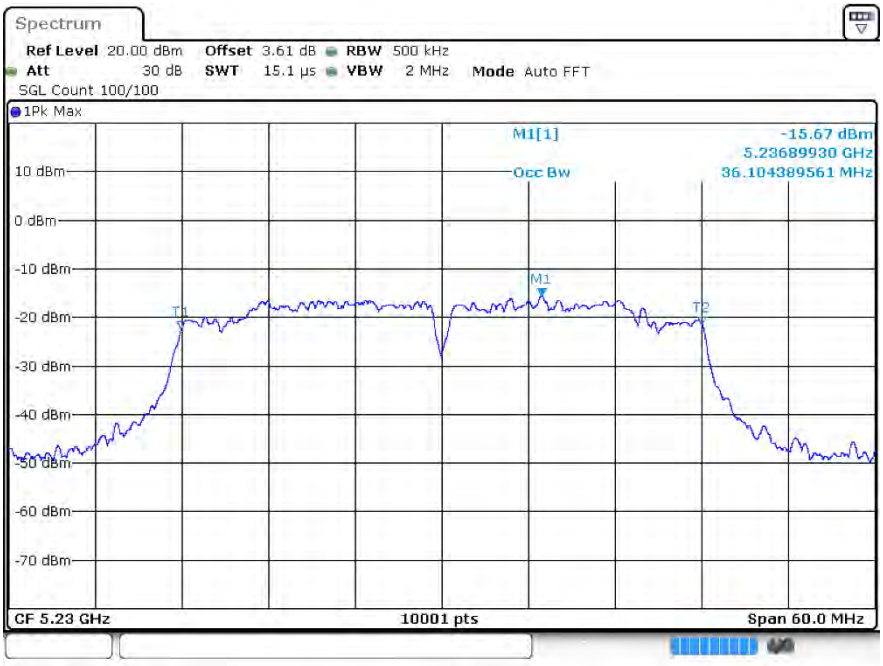
OBW ac20 5700MHz Ant1



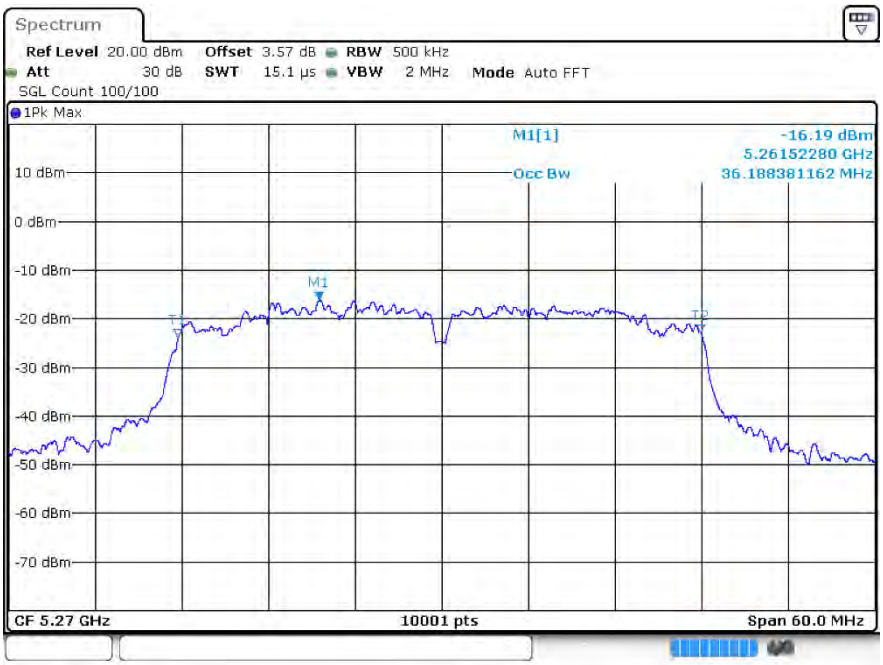
OBWac40 5190MHz Ant1



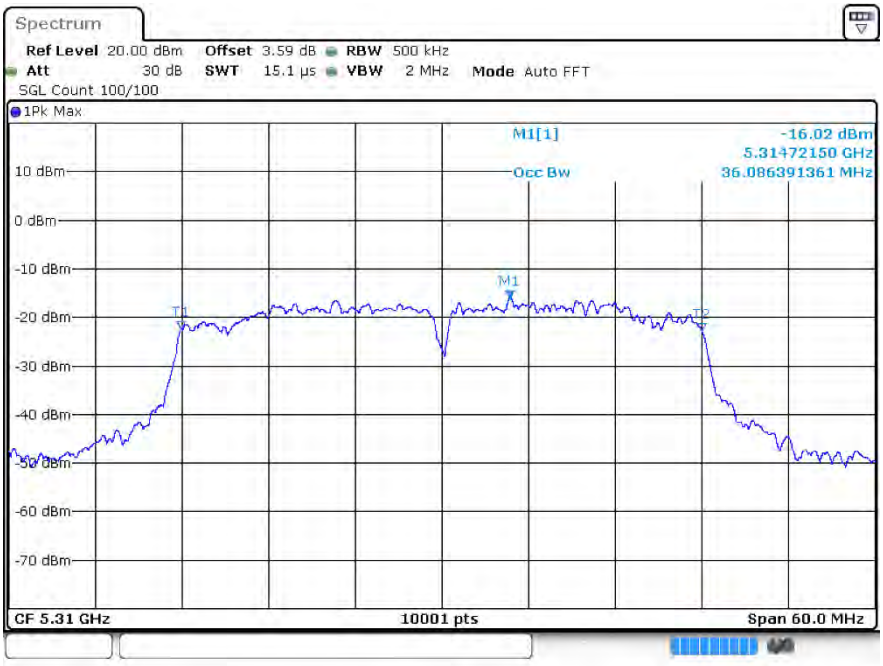
OBWac40 5230MHz Ant1



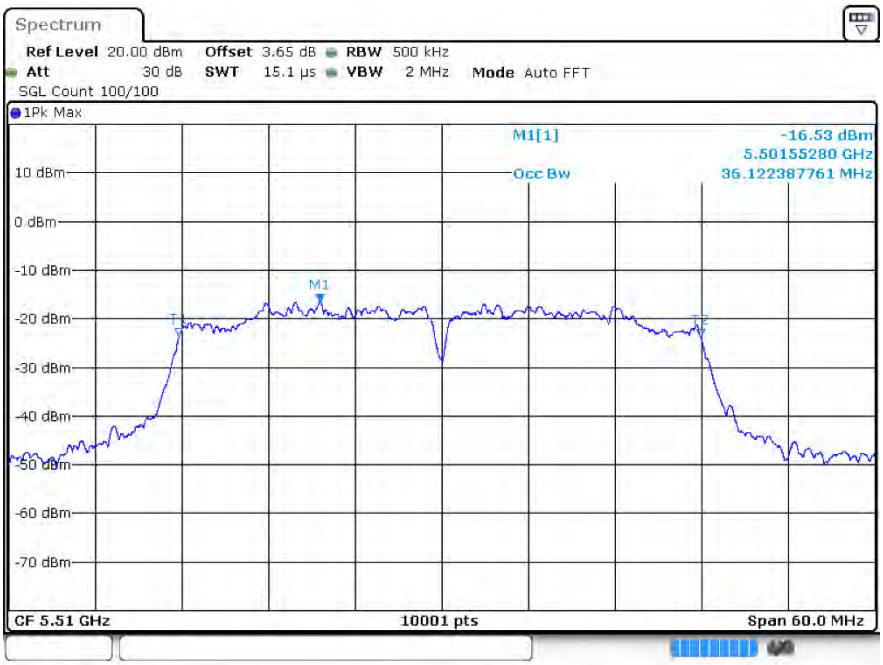
OBW ac40 5270MHz Ant1



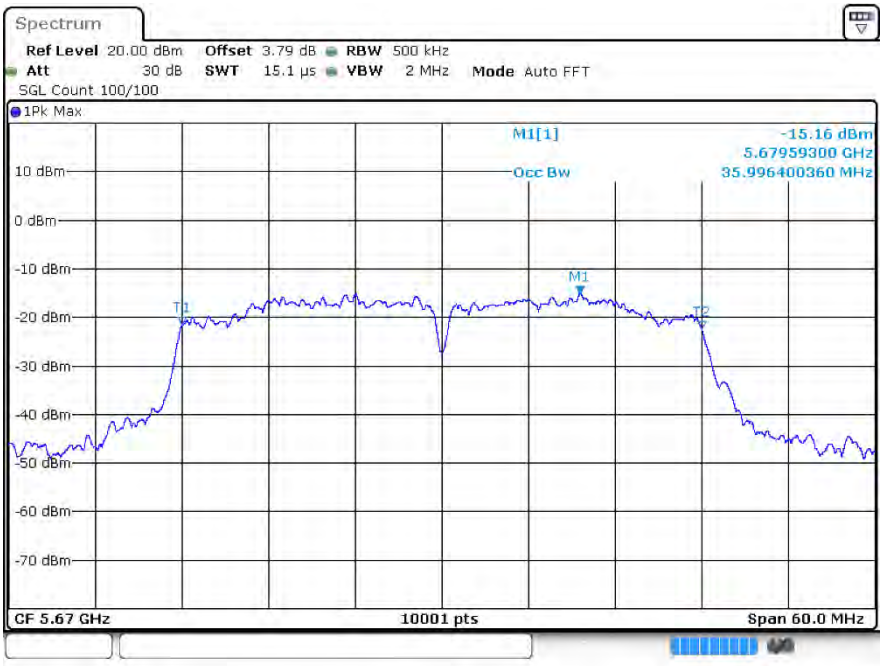
OBW ac40 5310MHz Ant1



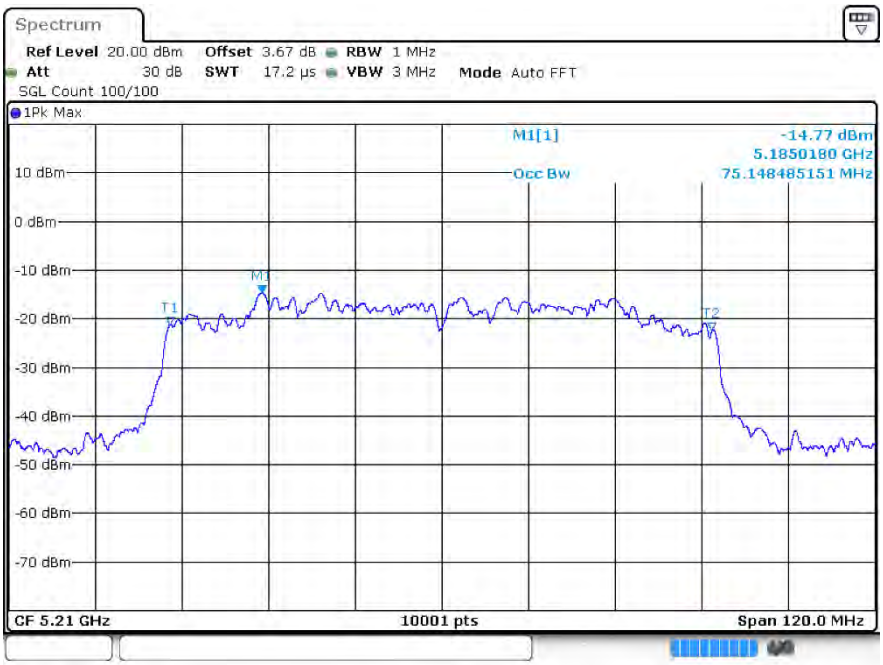
OBWac40 5510MHz Ant1



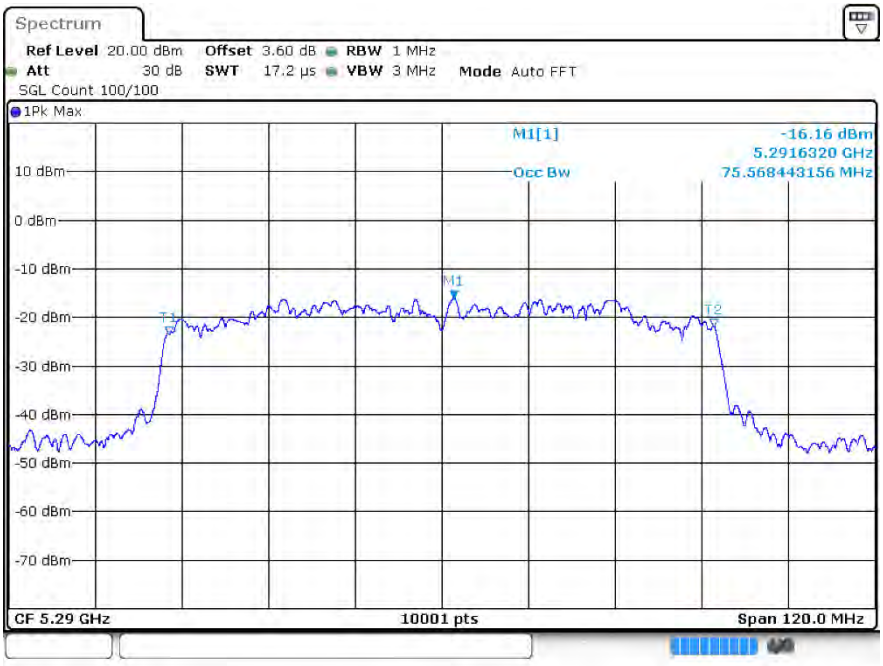
OBW ac40 5670MHz Ant1



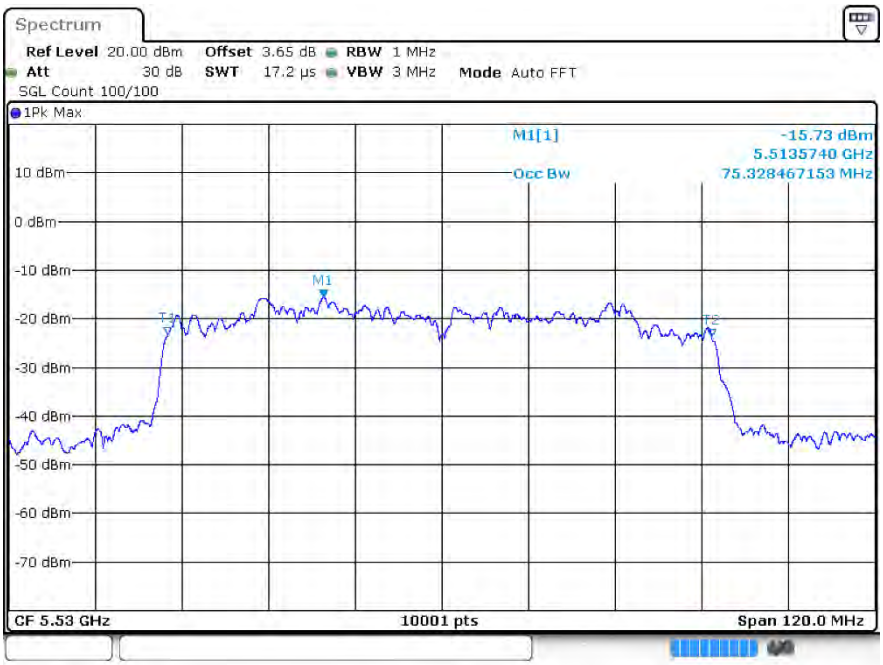
OBWac80 5210MHz Ant1



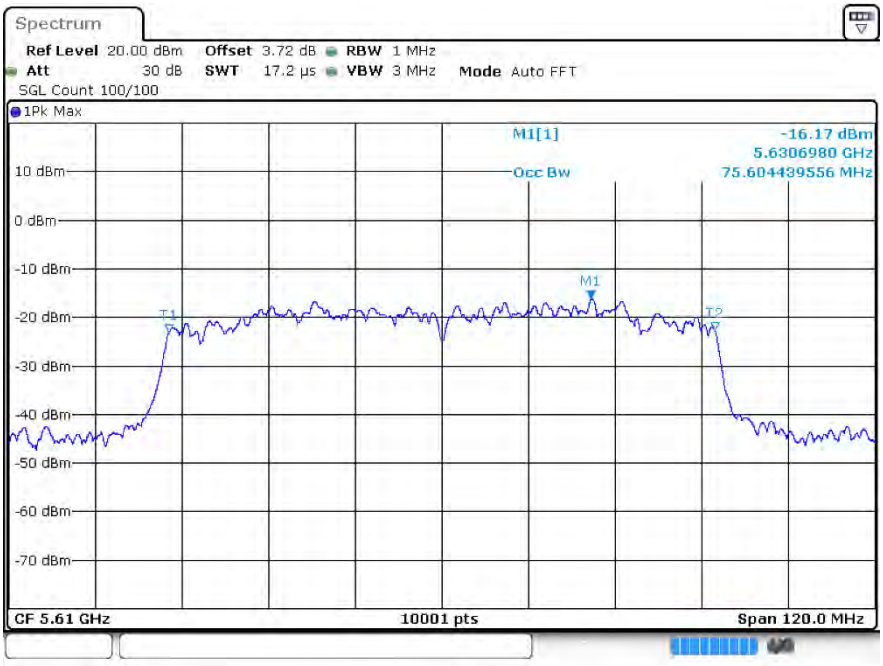
OBWac80 5290MHz Ant1



OBW ac80 5530MHz Ant1



OBWac80 5610MHz Ant1



5 Maximum Power Spectral Density Level

5.1 Test Result

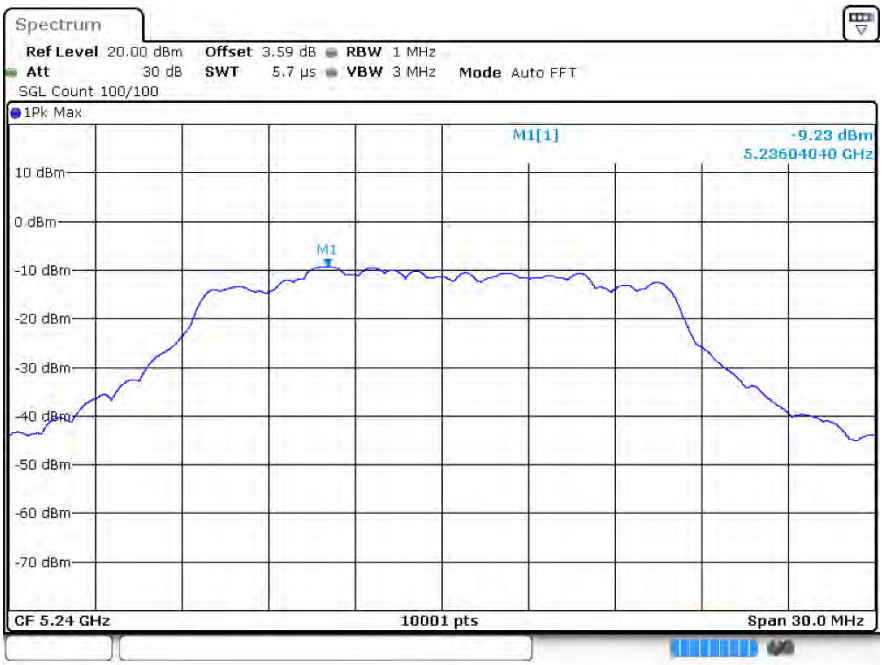
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	-9.11	11	Pass
a	5200	Ant1	-7.41	11	Pass
a	5240	Ant1	-9.23	11	Pass
a	5260	Ant1	-8.53	11	Pass
a	5280	Ant1	-10.42	11	Pass
a	5320	Ant1	-8.32	11	Pass
a	5500	Ant1	-9.4	11	Pass
a	5600	Ant1	-10.76	11	Pass
a	5700	Ant1	-7.42	11	Pass
n20	5180	Ant1	-8.71	11	Pass
n20	5200	Ant1	-9.42	11	Pass
n20	5240	Ant1	-10.23	11	Pass
n20	5280	Ant1	-10.25	11	Pass
n20	5320	Ant1	-9.61	11	Pass
n20	5500	Ant1	-10.14	11	Pass
n20	5600	Ant1	-11.24	11	Pass
n20	5700	Ant1	-8.33	11	Pass
n40	5190	Ant1	-12.99	11	Pass
n40	5230	Ant1	-12.3	11	Pass
n40	5270	Ant1	-12.75	11	Pass
n40	5310	Ant1	-12.24	11	Pass
n40	5510	Ant1	-13.42	11	Pass
n40	5670	Ant1	-11.44	11	Pass
ac20	5180	Ant1	-10.15	11	Pass
ac20	5200	Ant1	-8.75	11	Pass
ac20	5240	Ant1	-10.04	11	Pass
ac20	5280	Ant1	-10.15	11	Pass
ac20	5320	Ant1	-8.32	11	Pass
ac20	5500	Ant1	-9.96	11	Pass
ac20	5600	Ant1	-11.16	11	Pass
ac20	5700	Ant1	-7.77	11	Pass
ac40	5190	Ant1	-12.92	11	Pass
ac40	5230	Ant1	-12.62	11	Pass
ac40	5270	Ant1	-12.63	11	Pass
ac40	5310	Ant1	-13.54	11	Pass

ac40	5510	Ant1	-13.72	11	Pass
ac40	5670	Ant1	-11.74	11	Pass
ac80	5210	Ant1	-14.77	11	Pass
ac80	5290	Ant1	-15.54	11	Pass
ac80	5530	Ant1	-16.58	11	Pass
ac80	5610	Ant1	-16.86	11	Pass

5.2 Test Graphs

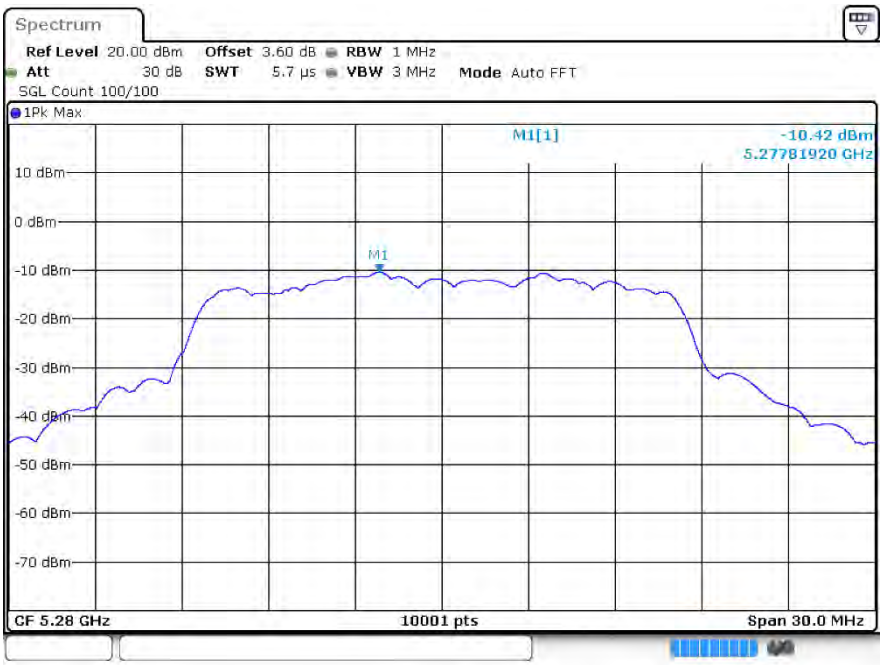
Test Graphs
PSDa 5180MHz Ant1
PSD a 5200MHz Ant1

PSDa 5240MHz Ant1



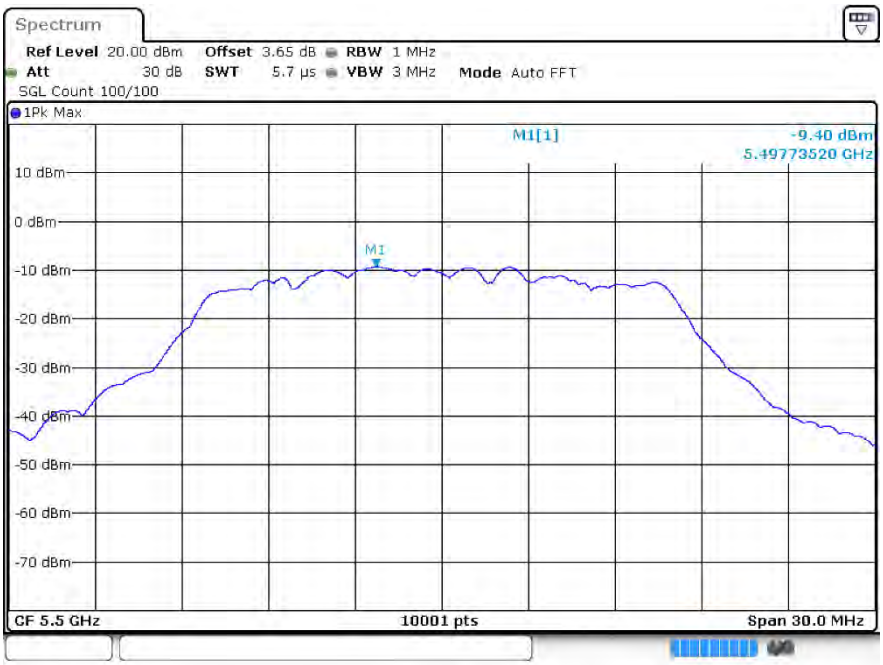
PSD a 5260MHz Ant1

PSDa 5280MHz Ant1



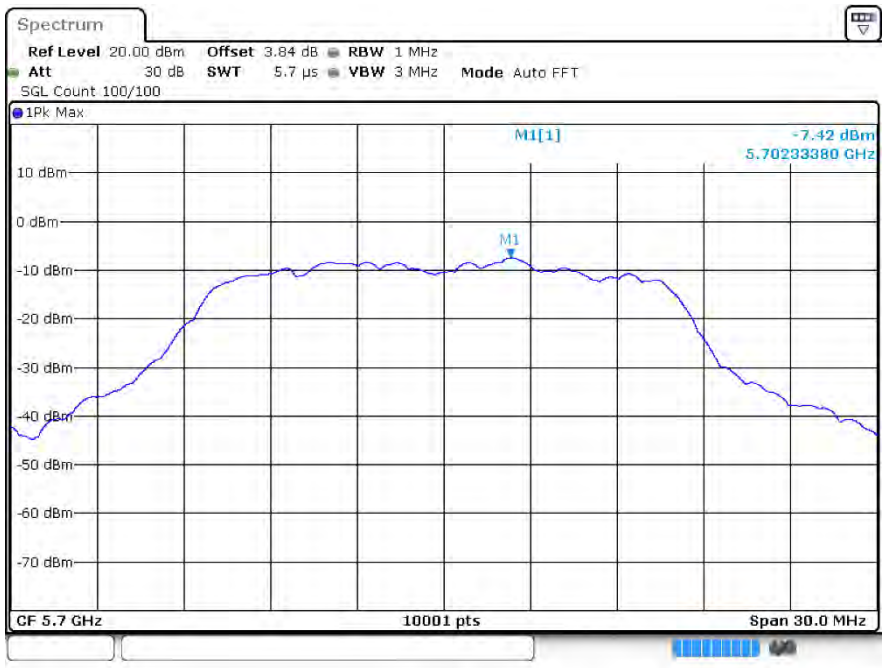
PSD a 5320MHz Ant1

PSDa 5500MHz Ant1

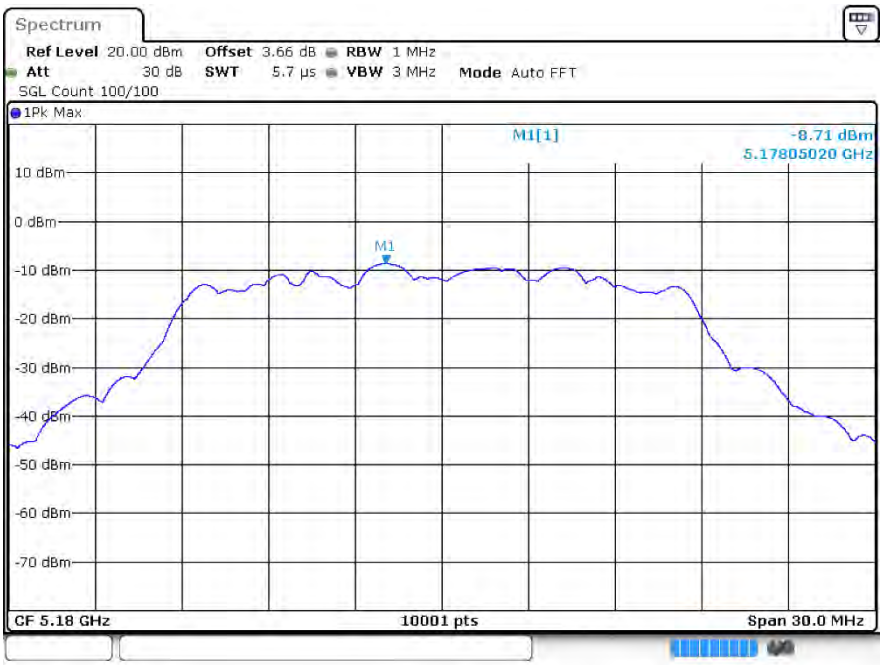


PSD a 5600MHz Ant1

PSD a 5700MHz Ant1



PSD n20 5180MHz Ant1

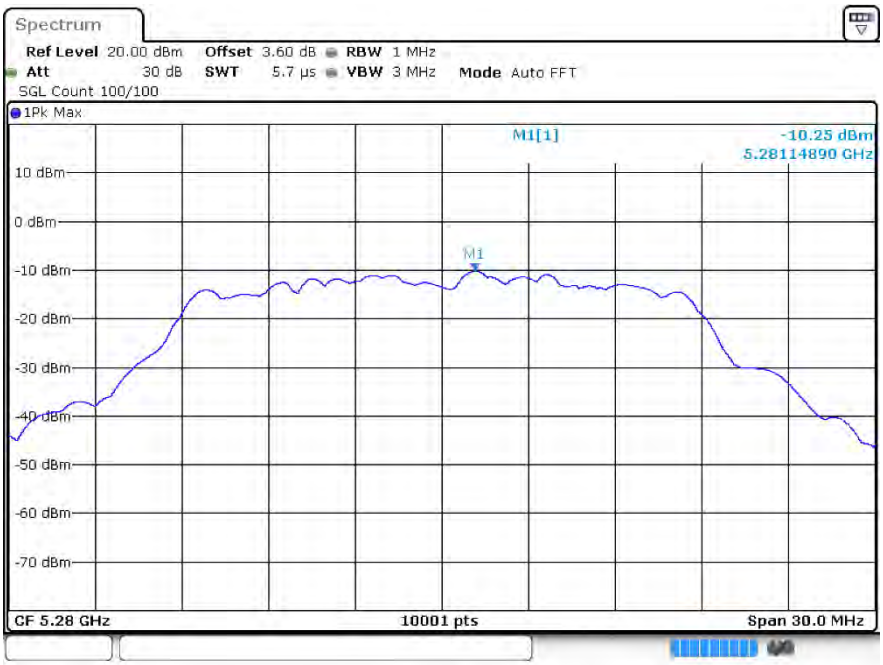


PSD n20 5200MHz Ant1

PSD n20 5240MHz Ant1

PSD n20 5260MHz Ant1

PSD n20 5280MHz Ant1

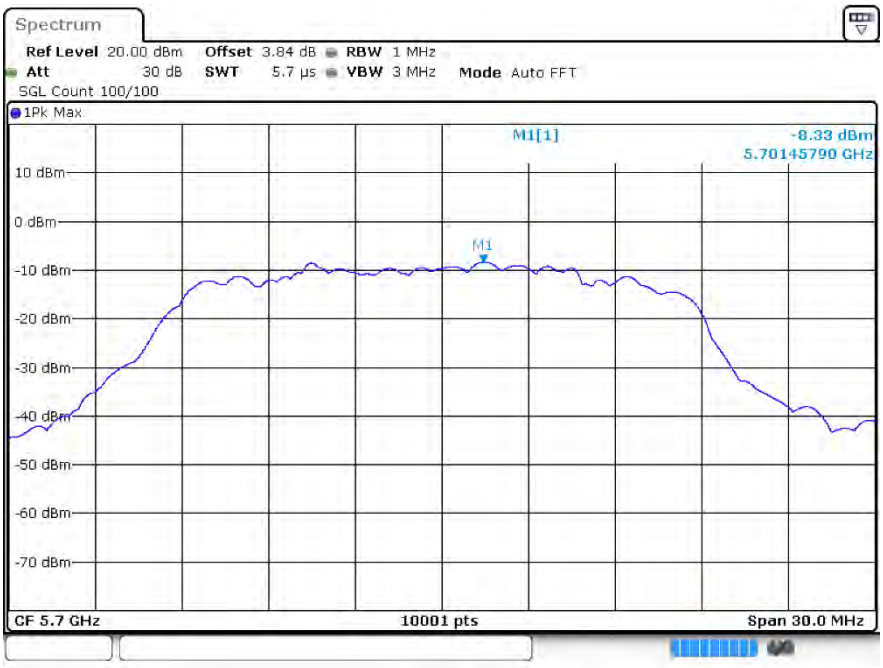


PSD n20 5320MHz Ant1

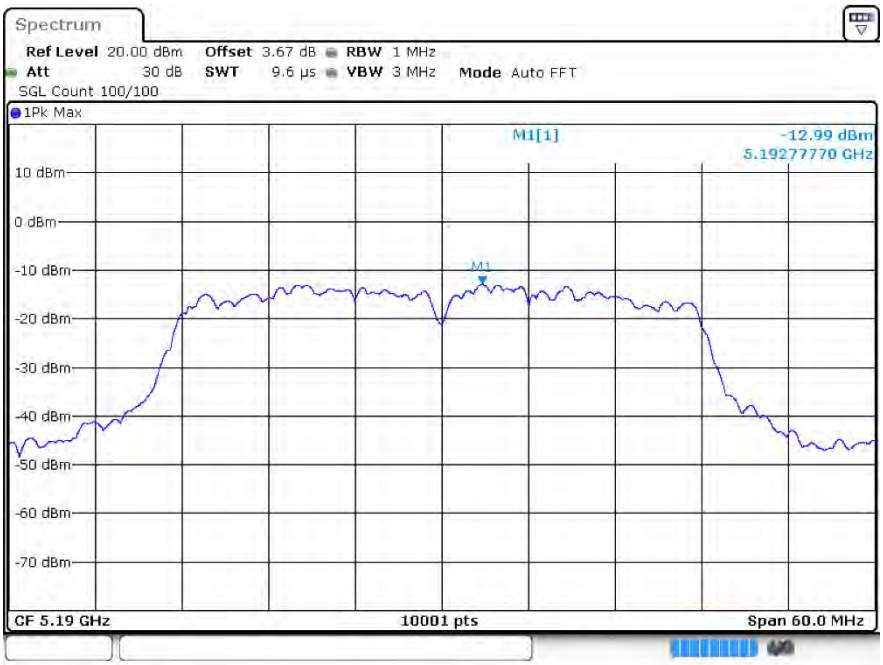
PSD n20 5500MHz Ant1

PSD n20 5600MHz Ant1

PSD n20 5700MHz Ant1

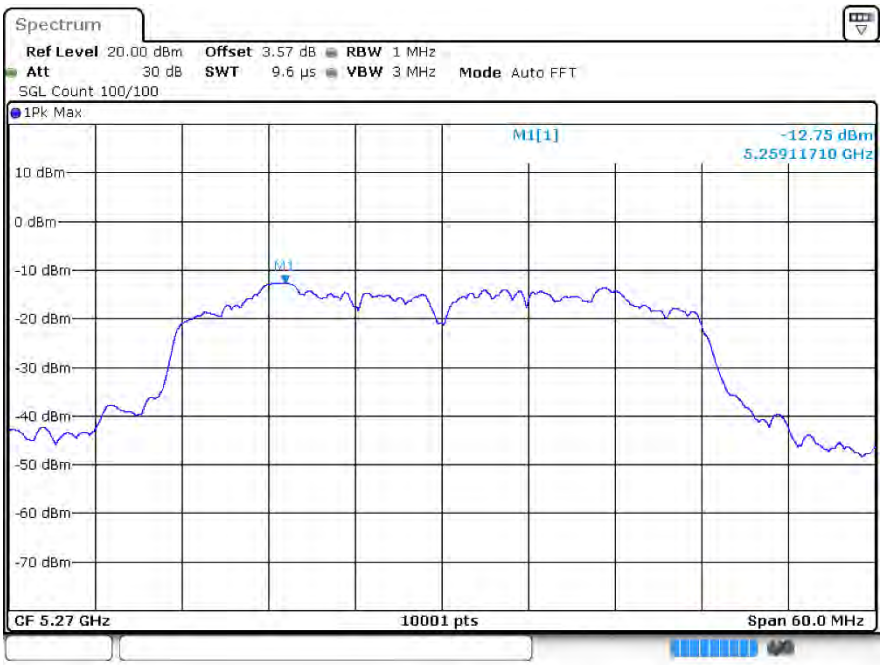


PSDn40 5190MHz Ant1



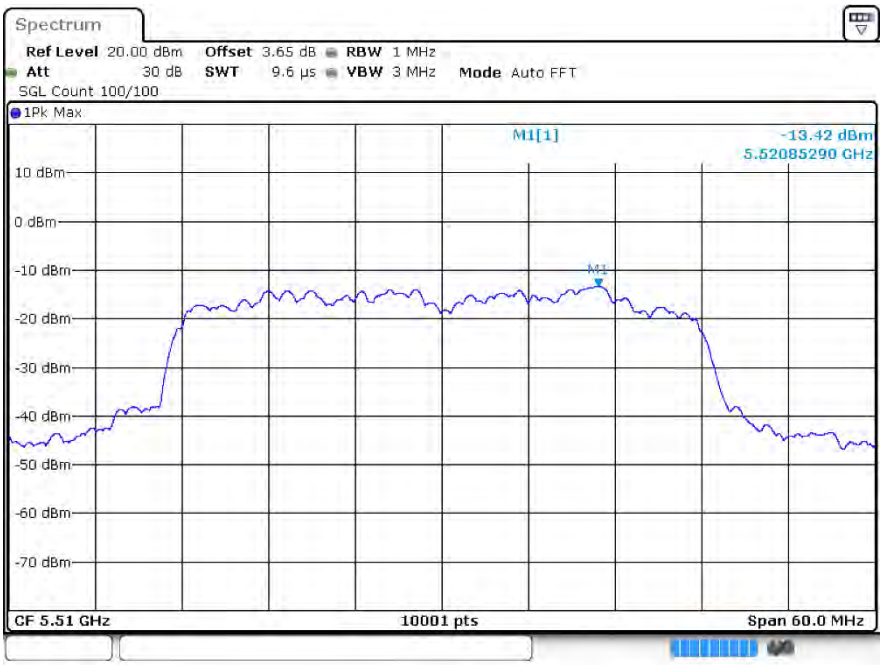
PSDn40 5230MHz Ant1

PSDn40 5270MHz Ant1



PSD n40 5310MHz Ant1

PSDn40 5510MHz Ant1



PSD n40 5670MHz Ant1