Appendix D

RF Test Data for B1WIFI(Conducted Measurement)

Product Name: Reinkstone R1

Trade Mark: Reinkstone

Test Model: Reink100

Environmental Conditions

Temperature:	25.4° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

Contents

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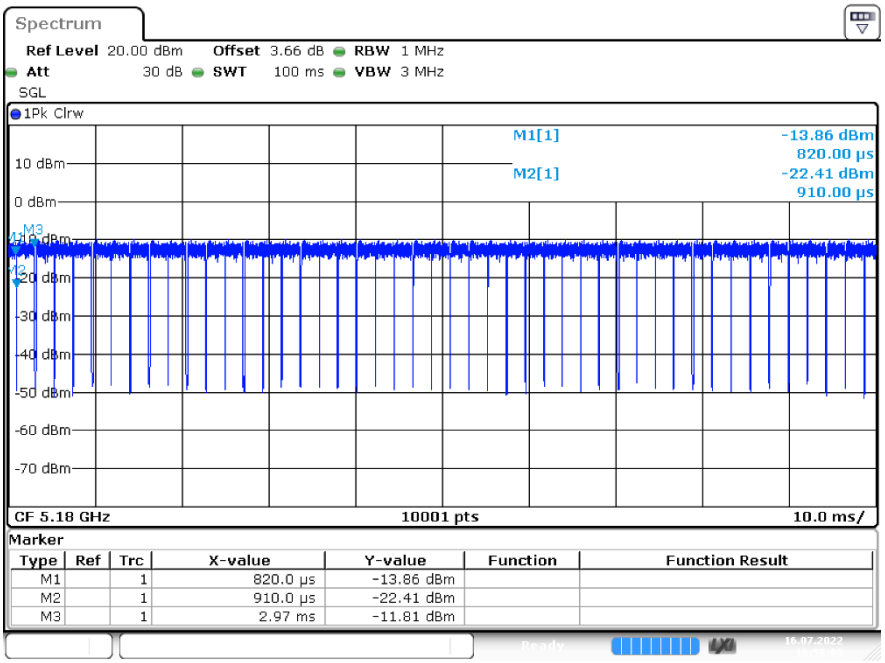
1 Duty Cycle

1.1 Test Result

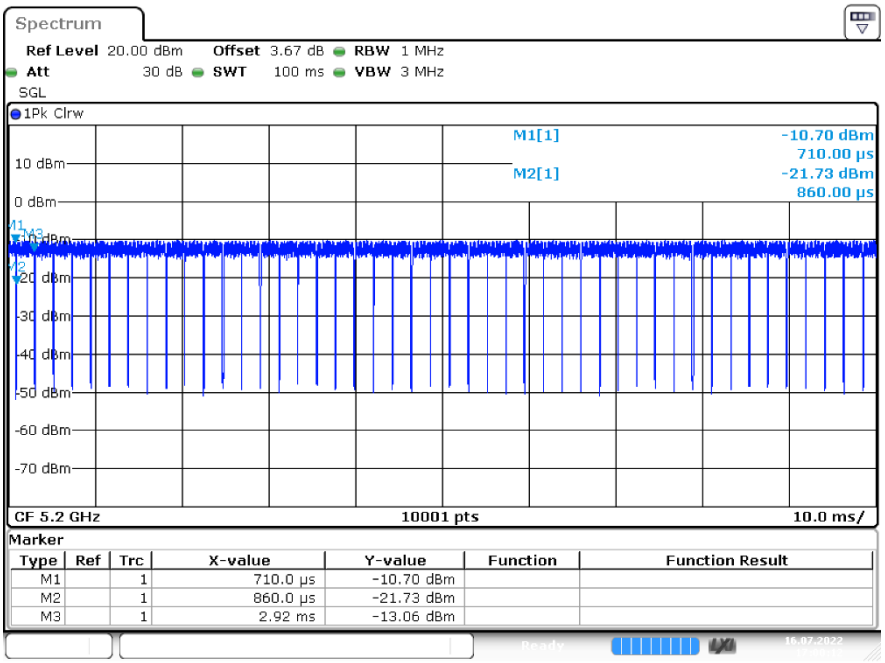
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	95.38	0.21	0.49
a	5200	Ant1	95.42	0.2	0.49
a	5240	Ant1	96.03	0.18	0.48
n20	5180	Ant1	95.57	0.2	0.52
n20	5200	Ant1	95.03	0.22	0.52
n20	5240	Ant1	95.28	0.21	0.52
n40	5190	Ant1	91.26	0.4	1.05
n40	5230	Ant1	91.67	0.38	1.05
ac20	5180	Ant1	95.77	0.19	0.52
ac20	5200	Ant1	95.5	0.2	0.52
ac20	5240	Ant1	95.28	0.21	0.52
ac40	5190	Ant1	90.71	0.42	1.05
ac40	5230	Ant1	90.6	0.43	1.05
ac80	5210	Ant1	80.27	0.95	2.27

1.2 Test Graphs

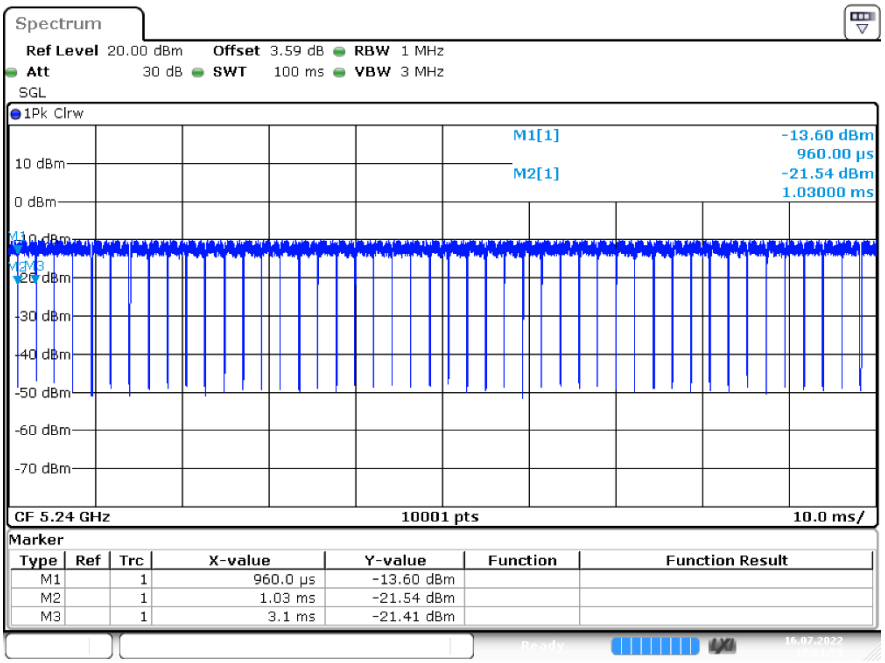
Test Graphs
Duty Cyclea 5180MHz Ant1



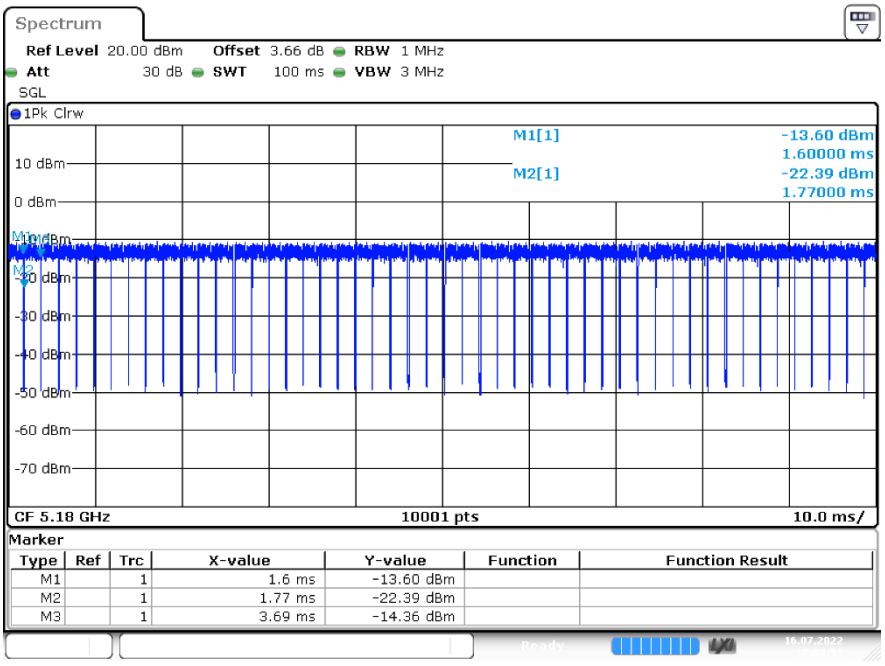
Duty Cycle a 5200MHz Ant1



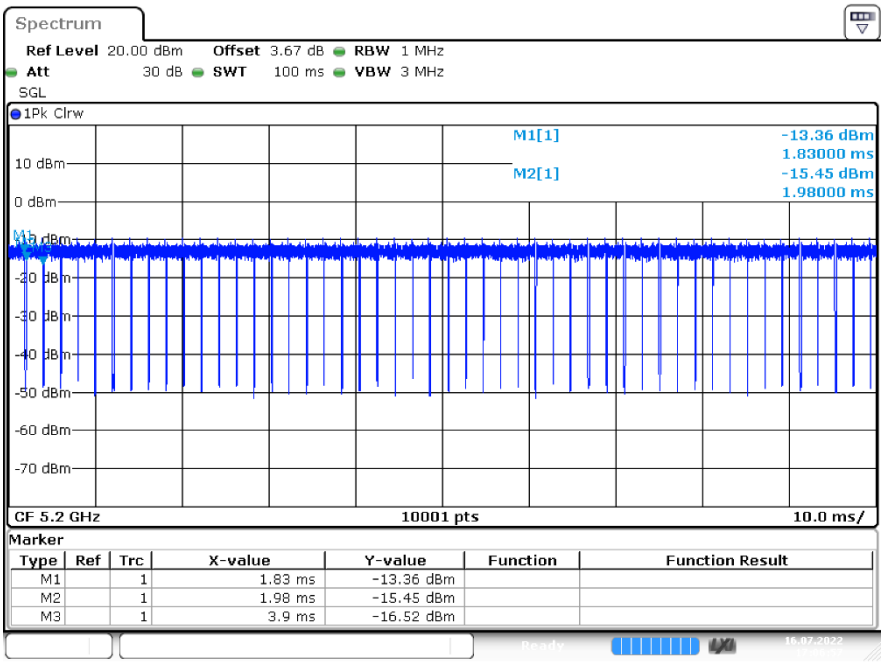
Duty Cyclea 5240MHz Ant1



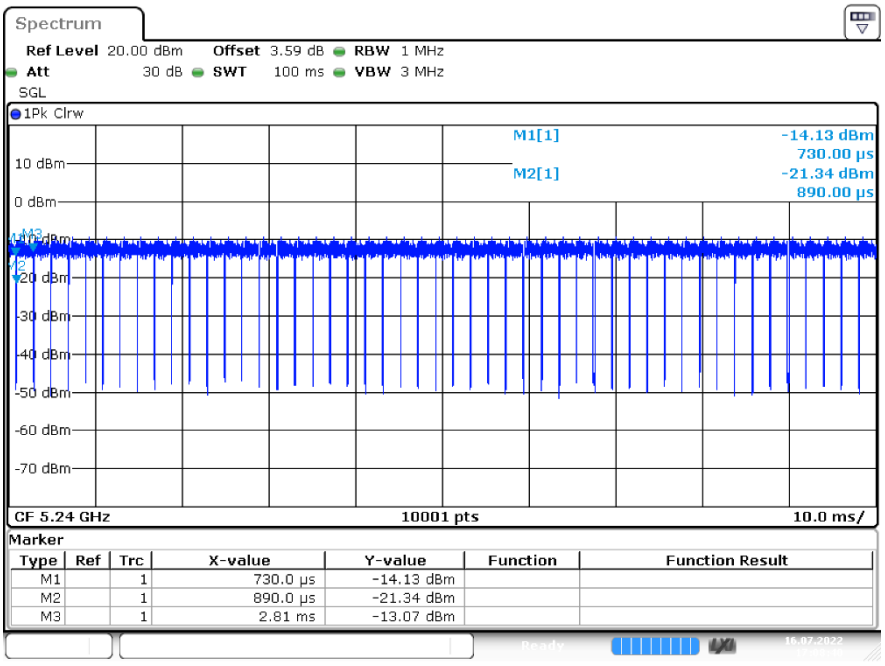
Duty Cycle n20 5180MHz Ant1



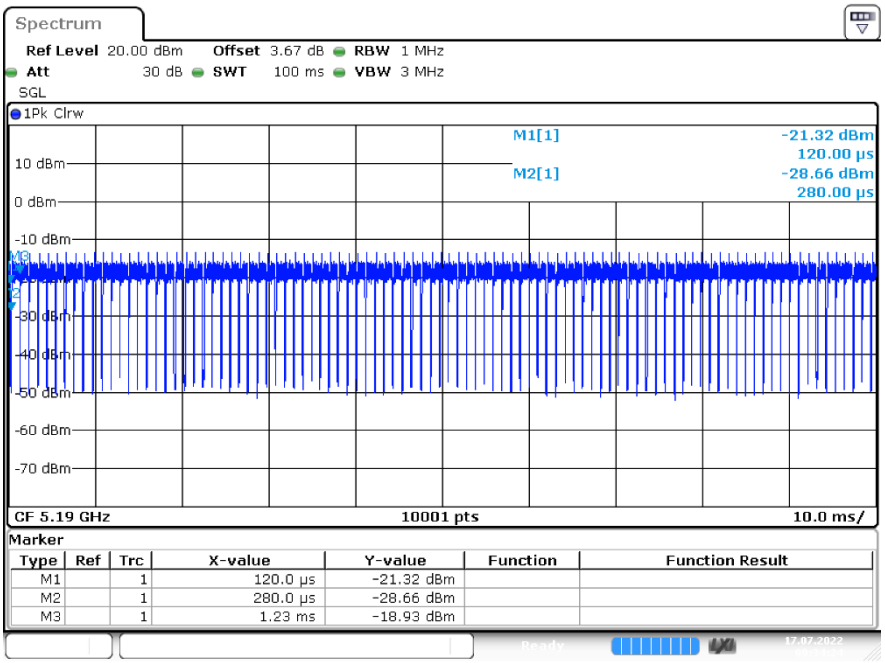
Duty Cycle n20 5200MHz Ant1



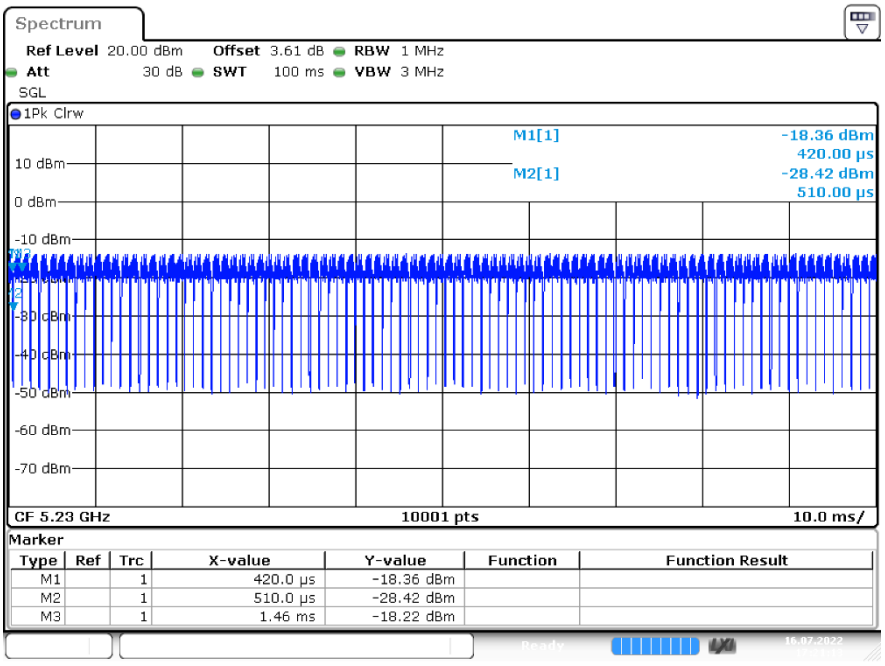
Duty Cycle n20 5240MHz Ant1



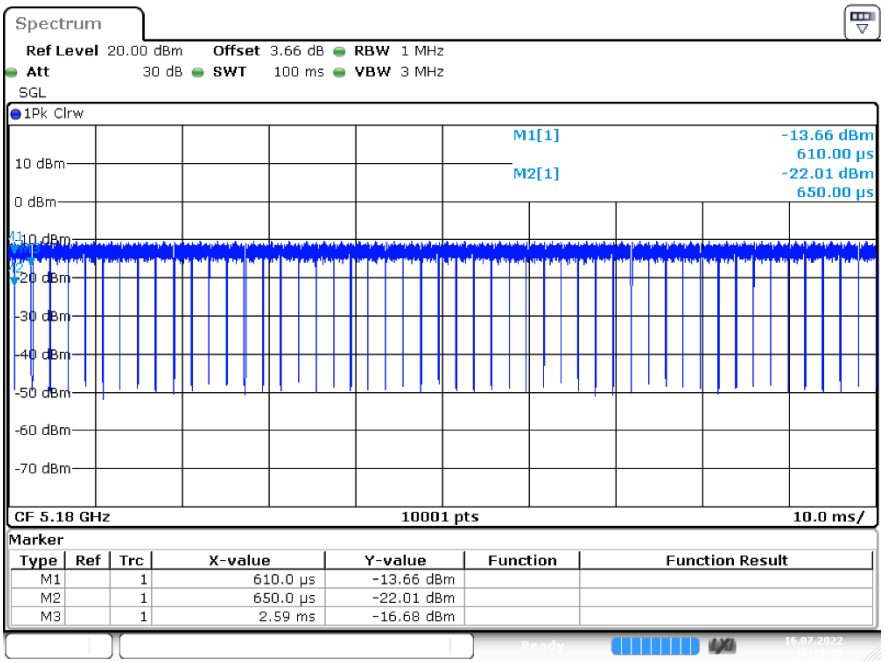
Duty Cyclen40 5190MHz Ant1



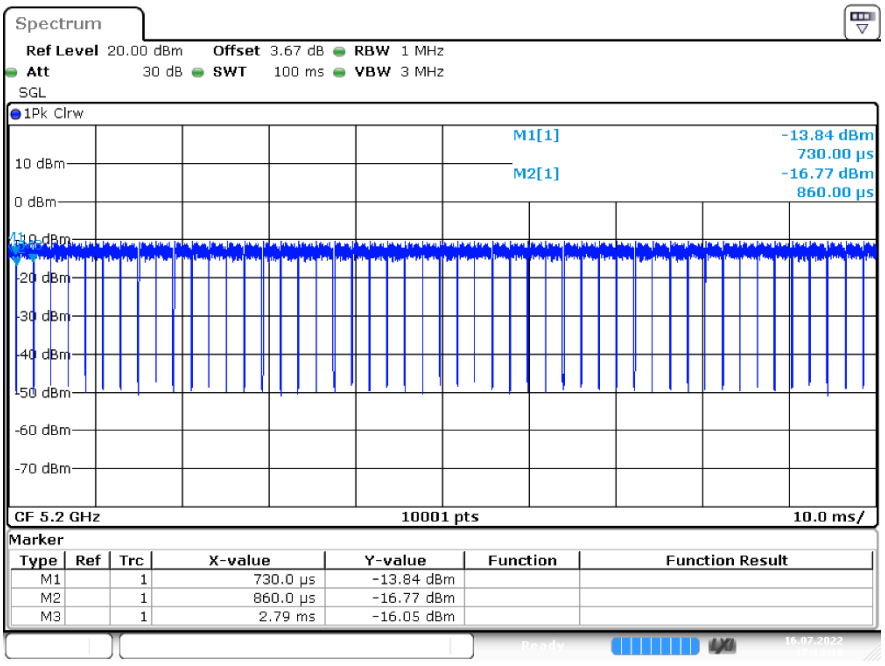
Duty Cyclen40 5230MHz Ant1



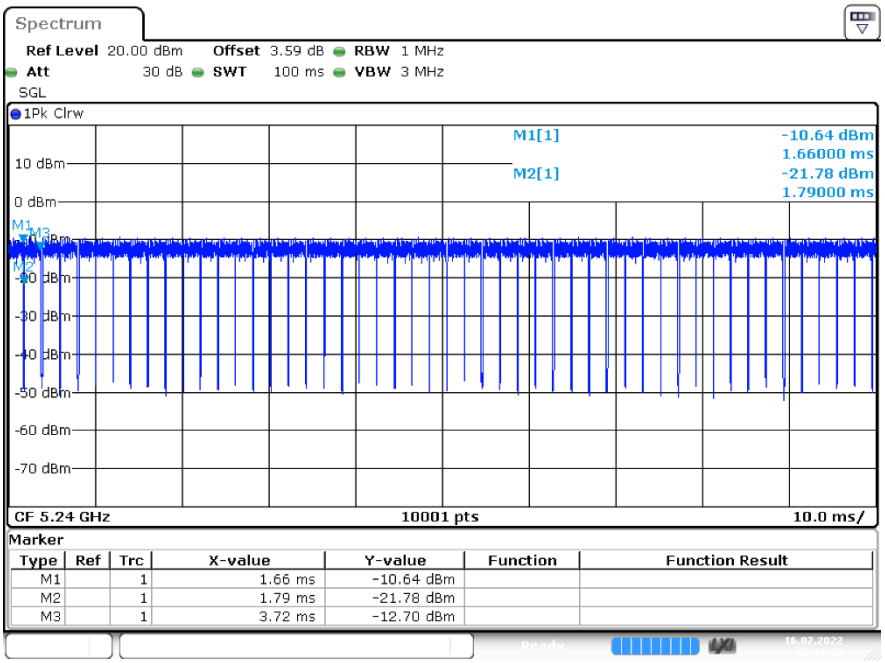
Duty Cycle ac20 5180MHz Ant1



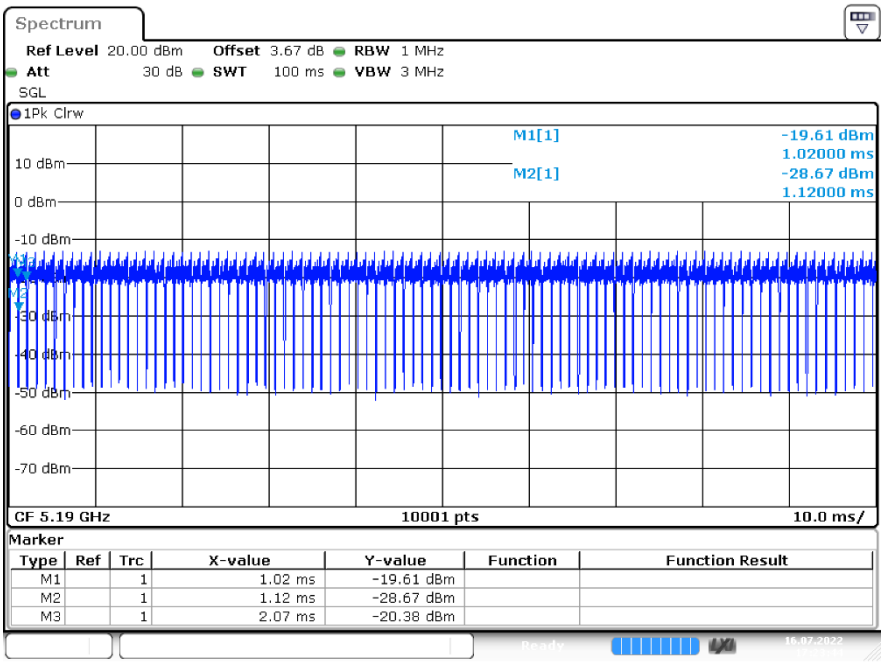
Duty Cycle ac20 5200MHz Ant1



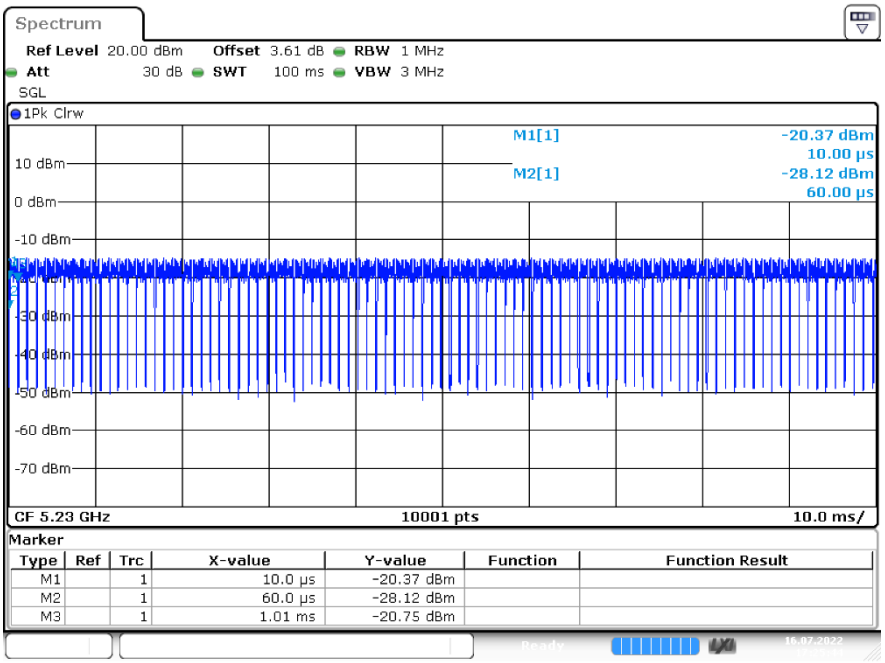
Duty Cycle ac20 5240MHz Ant1



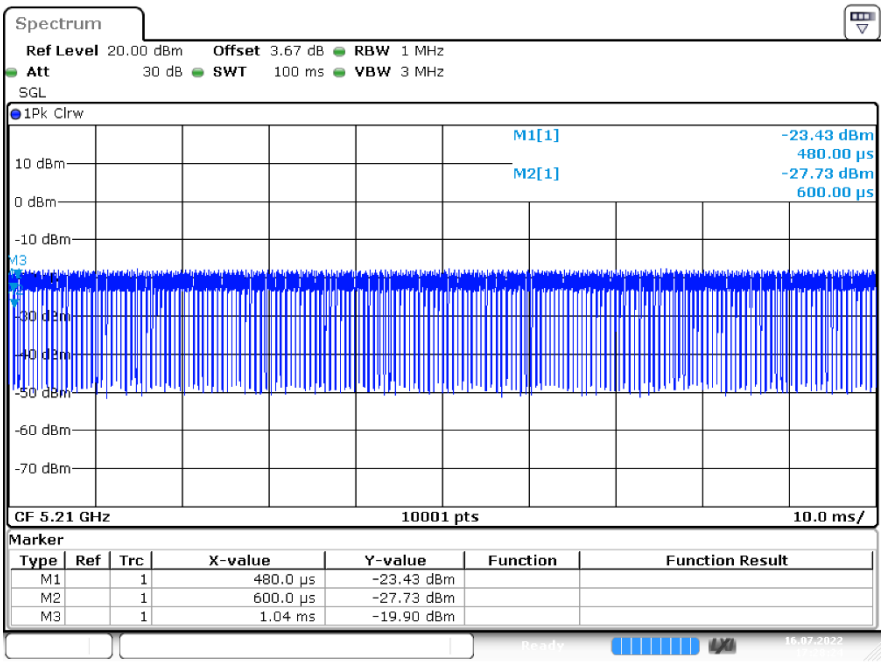
Duty Cycleac40 5190MHz Ant1



Duty Cycleac40 5230MHz Ant1



Duty Cycleac80 5210MHz Ant1



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Correction Factor (dB)	Total Power (dBm)	FCC Limit (dBm)	Verdict
a	5180	Ant1	-2.21	0.21	-2.00	24	Pass
a	5200	Ant1	-2.16	0.2	-1.96	24	Pass
a	5240	Ant1	-1.53	0.18	-1.35	24	Pass
n20	5180	Ant1	-2.39	0.2	-2.19	24	Pass
n20	5200	Ant1	-2.27	0.22	-2.05	24	Pass
n20	5240	Ant1	-1.7	0.21	-1.49	24	Pass
n40	5190	Ant1	-2.48	0.4	-2.08	24	Pass
n40	5230	Ant1	-1.96	0.38	-1.58	24	Pass
ac20	5180	Ant1	-2.45	0.19	-2.26	24	Pass
ac20	5200	Ant1	-2.18	0.2	-1.98	24	Pass
ac20	5240	Ant1	-1.71	0.21	-1.50	24	Pass
ac40	5190	Ant1	-2.4	0.42	-1.98	24	Pass
ac40	5230	Ant1	-2	0.43	-1.57	24	Pass
ac80	5210	Ant1	-2.22	0.95	-1.27	24	Pass

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Correction Factor (dB)	Antenna Gain(dBi)	Total EIRP (dBm)	ISED Limit (dBm)	Verdict
a	5180	Ant1	-2.21	0.21	0	-2.00	24	Pass
a	5200	Ant1	-2.16	0.2	0	-1.96	24	Pass
a	5240	Ant1	-1.53	0.18	0	-1.35	24	Pass
n20	5180	Ant1	-2.39	0.2	0	-2.19	24	Pass
n20	5200	Ant1	-2.27	0.22	0	-2.05	24	Pass
n20	5240	Ant1	-1.7	0.21	0	-1.49	24	Pass
n40	5190	Ant1	-2.48	0.4	0	-2.08	24	Pass
n40	5230	Ant1	-1.96	0.38	0	-1.58	24	Pass
ac20	5180	Ant1	-2.45	0.19	0	-2.26	24	Pass
ac20	5200	Ant1	-2.18	0.2	0	-1.98	24	Pass
ac20	5240	Ant1	-1.71	0.21	0	-1.50	24	Pass
ac40	5190	Ant1	-2.4	0.42	0	-1.98	24	Pass
ac40	5230	Ant1	-2	0.43	0	-1.57	24	Pass
ac80	5210	Ant1	-2.22	0.95	0	-1.27	24	Pass

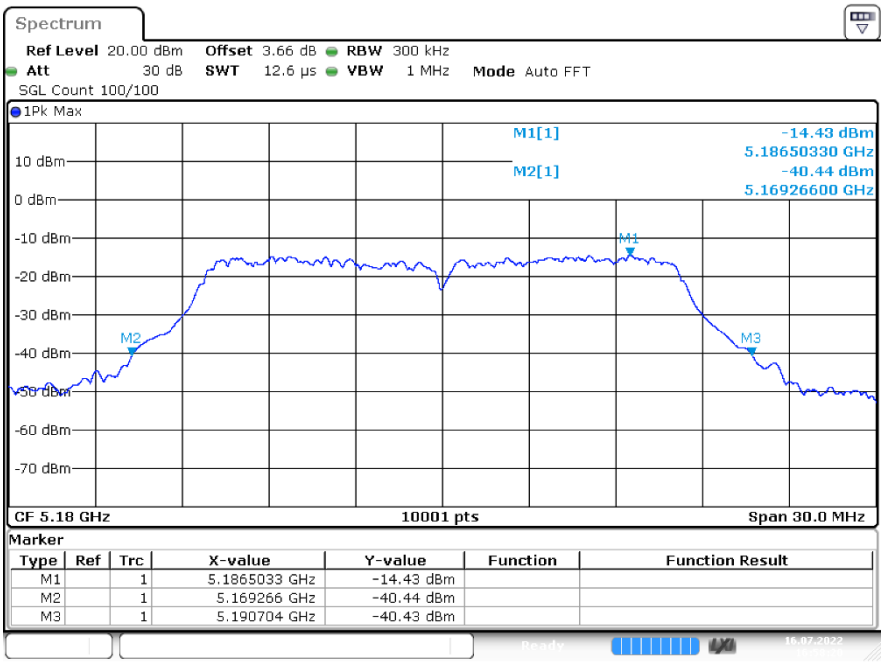
3 -26dB Bandwidth

3.1 Test Result

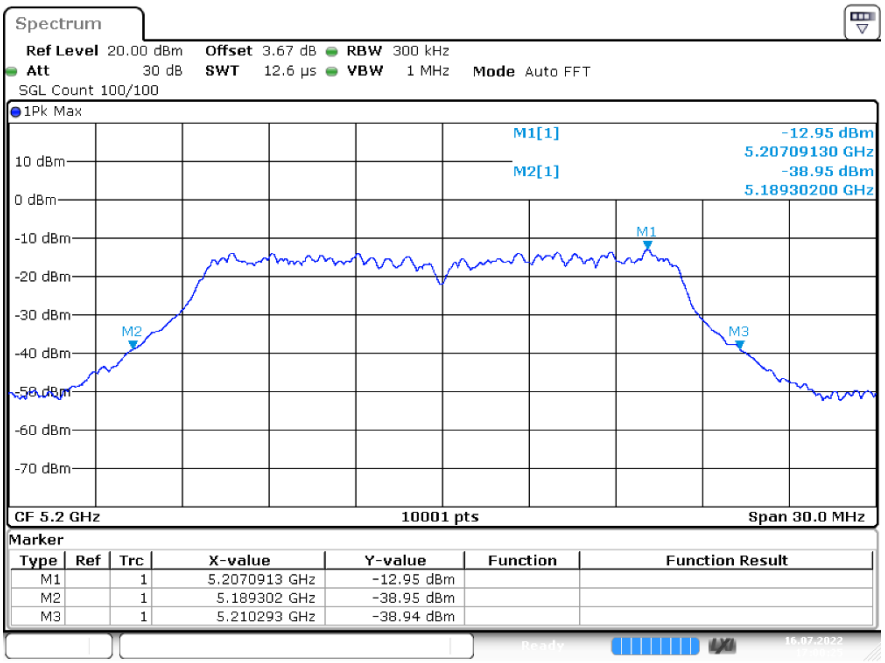
Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	21.438	No limit	Pass
a	5200	Ant1	20.991	No limit	Pass
a	5240	Ant1	21.318	No limit	Pass
n20	5180	Ant1	21.03	No limit	Pass
n20	5200	Ant1	21.258	No limit	Pass
n20	5240	Ant1	20.727	No limit	Pass
n40	5190	Ant1	41.028	No limit	Pass
n40	5230	Ant1	39.99	No limit	Pass
ac20	5180	Ant1	21.504	No limit	Pass
ac20	5200	Ant1	20.967	No limit	Pass
ac20	5240	Ant1	20.808	No limit	Pass
ac40	5190	Ant1	41.772	No limit	Pass
ac40	5230	Ant1	41.25	No limit	Pass
ac80	5210	Ant1	80.064	No limit	Pass

3.2 Test Graphs

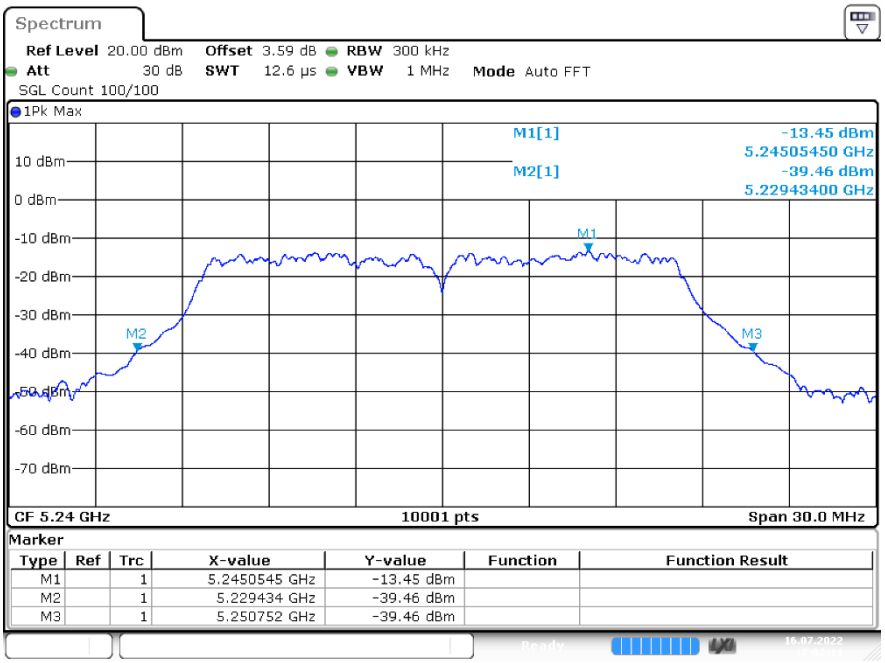
Test Graphs
-26dB Bandwidtha 5180MHz Ant1



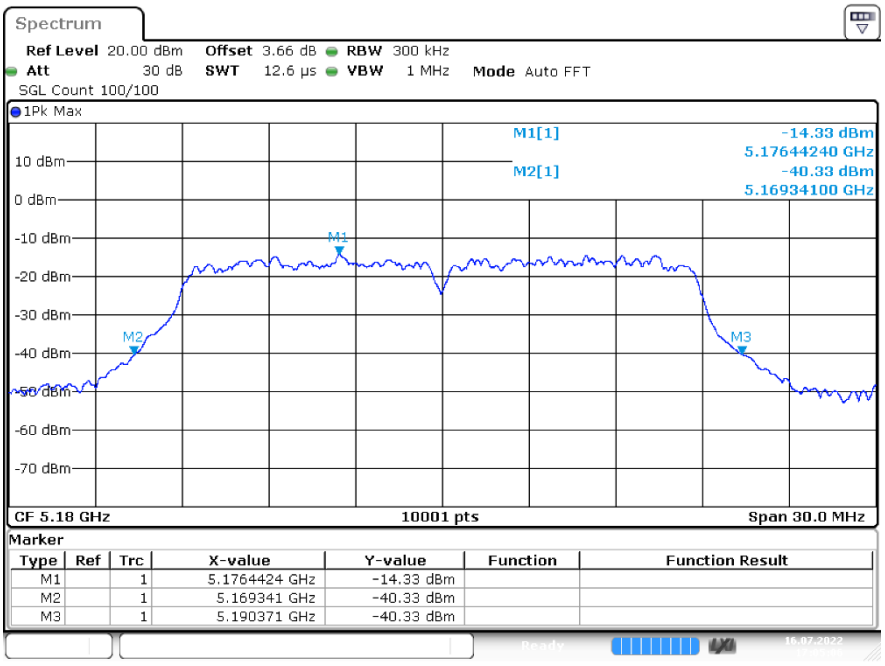
-26dB Bandwidtha 5200MHz Ant1



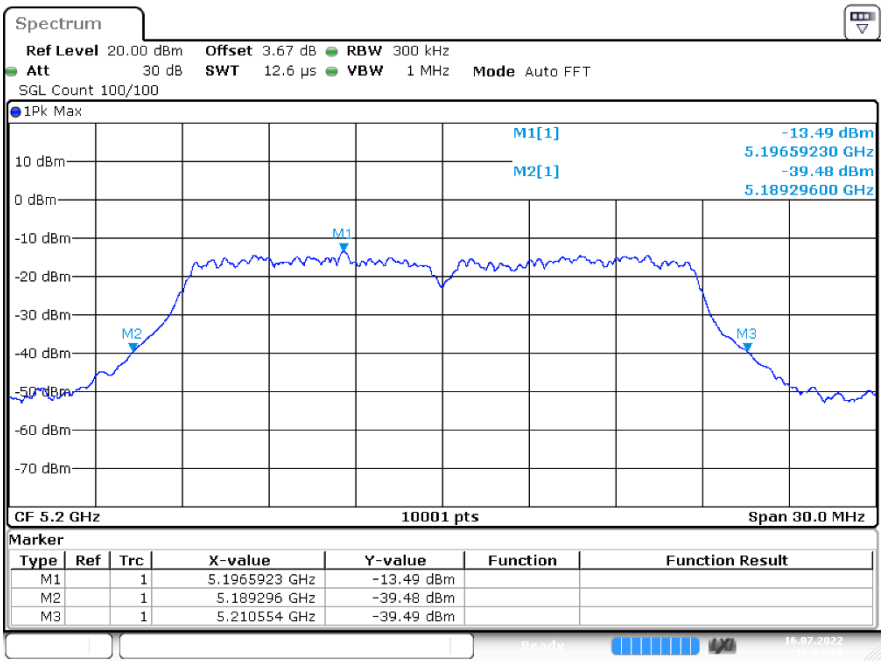
-26dB Bandwidtha 5240MHz Ant1



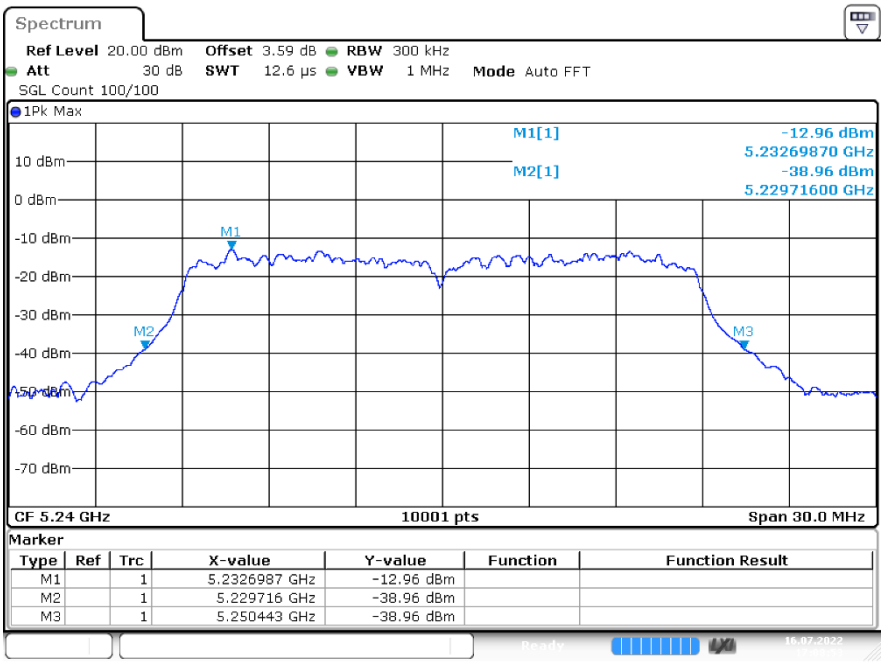
-26dB Bandwidth n20 5180MHz Ant1



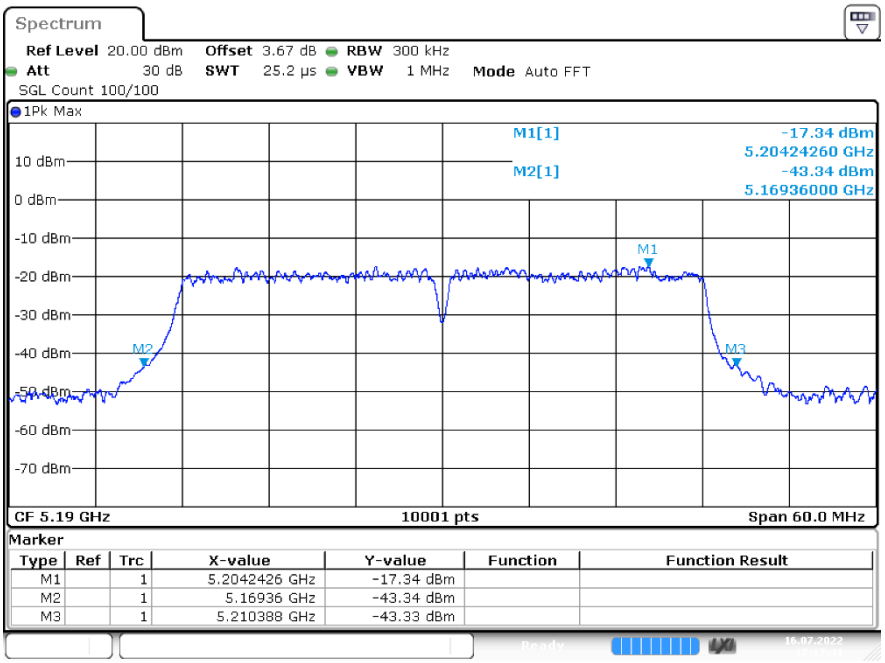
-26dB Bandwidth n20 5200MHz Ant1



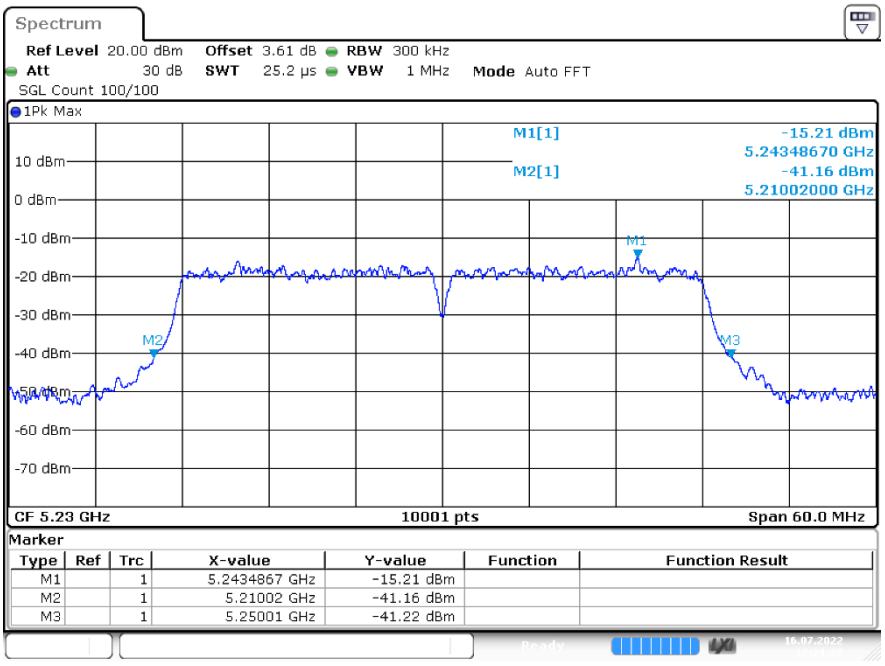
-26dB Bandwidth n20 5240MHz Ant1



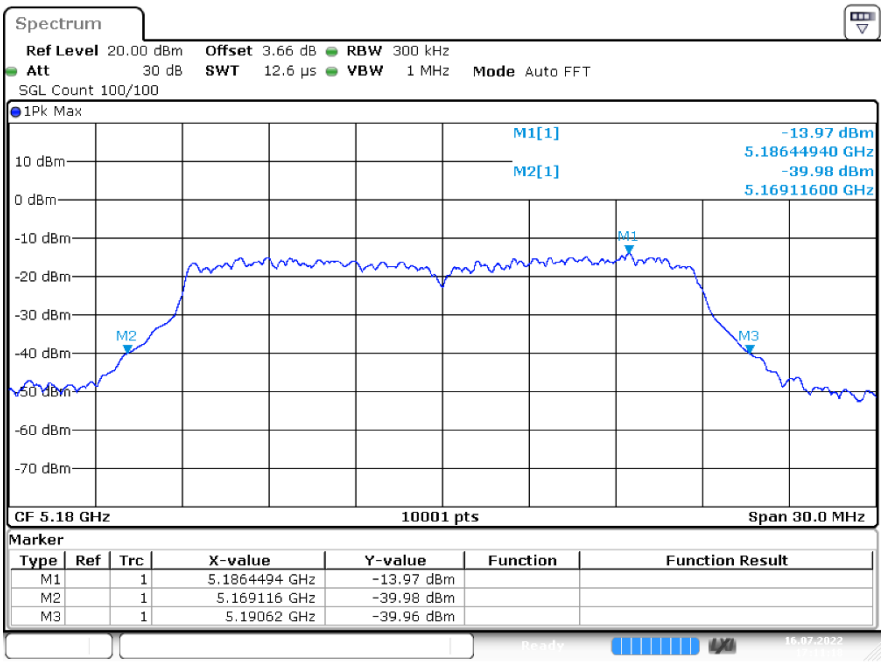
-26dB Bandwidthn40 5190MHz Ant1



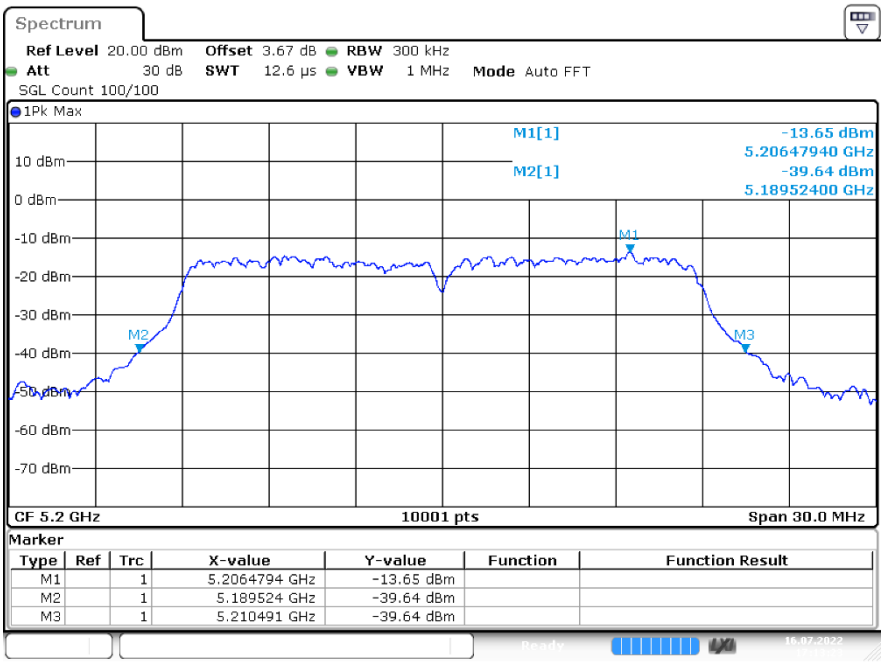
-26dB Bandwidthn40 5230MHz Ant1



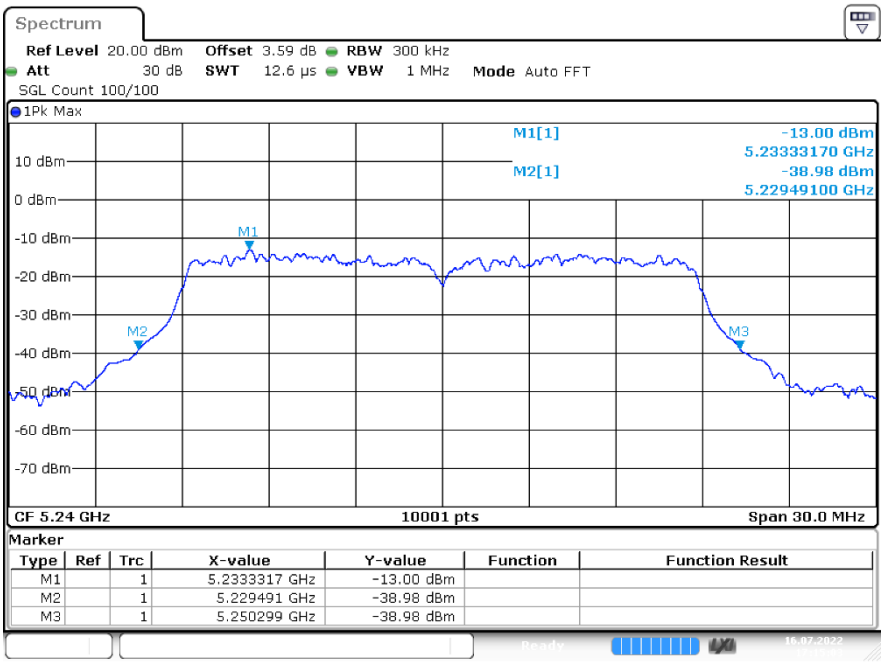
-26dB Bandwidth ac20 5180MHz Ant1



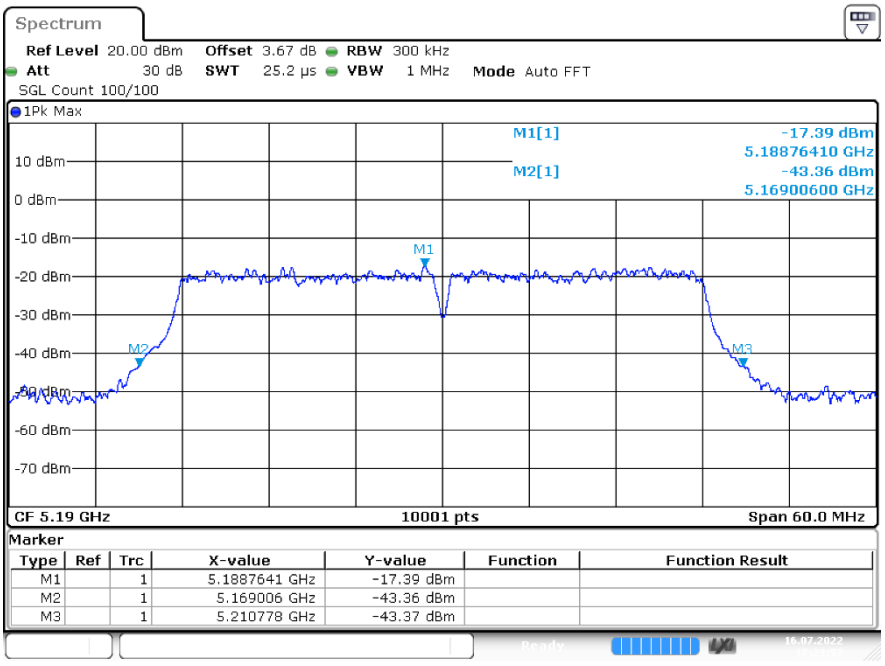
-26dB Bandwidth ac20 5200MHz Ant1



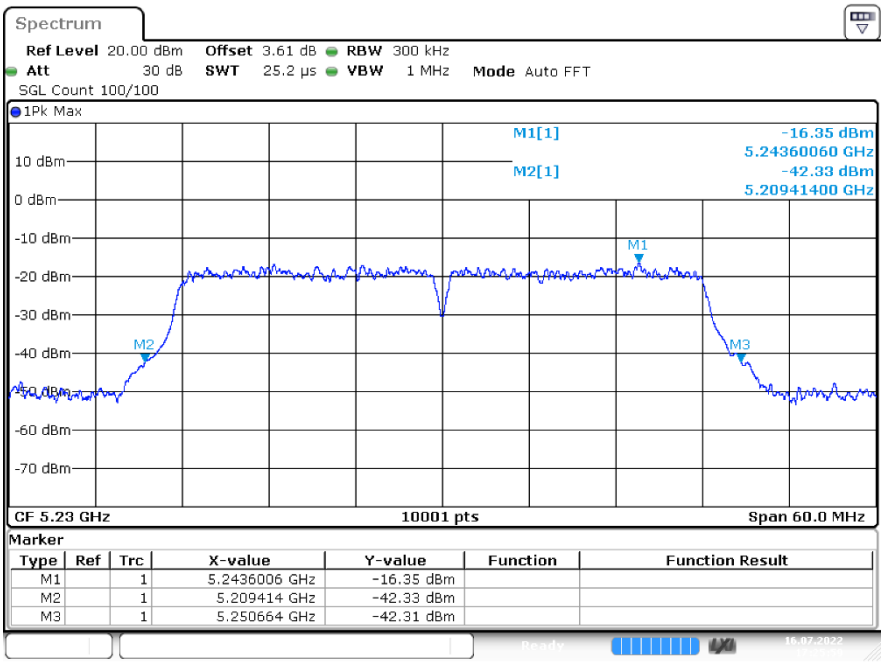
-26dB Bandwidth ac20 5240MHz Ant1



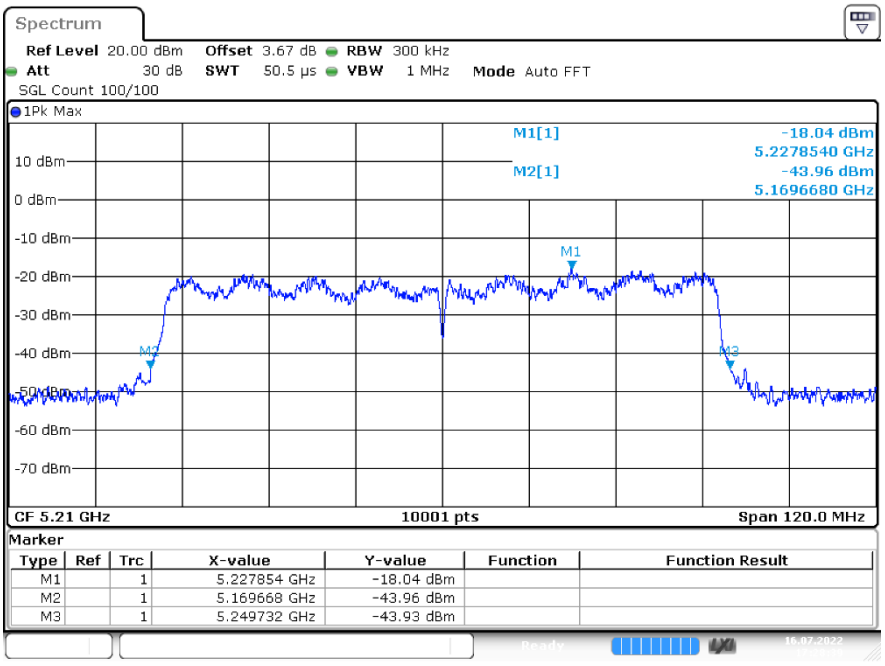
-26dB Bandwidthac40 5190MHz Ant1



-26dB Bandwidthac40 5230MHz Ant1



-26dB Bandwidthac80 5210MHz Ant1

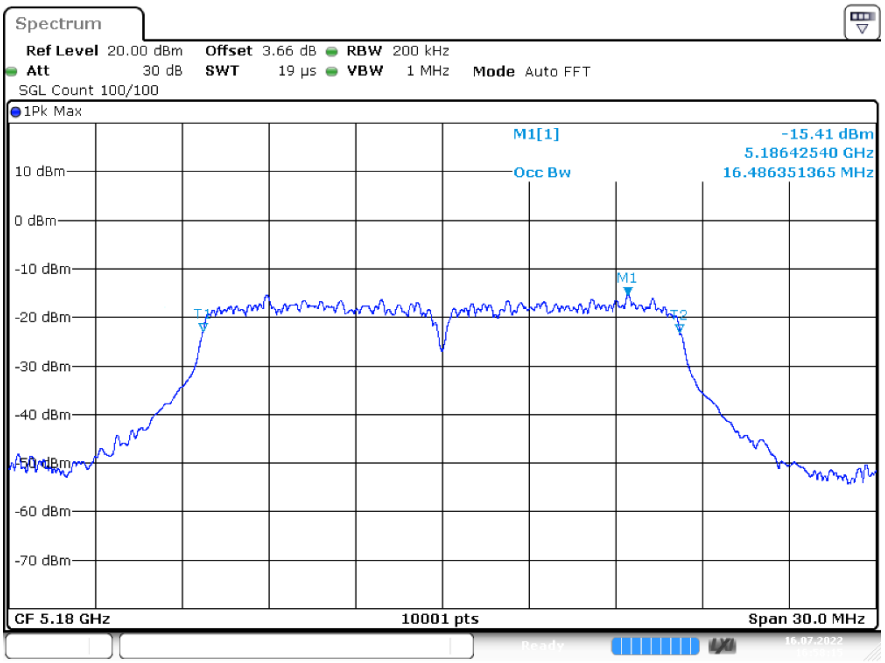
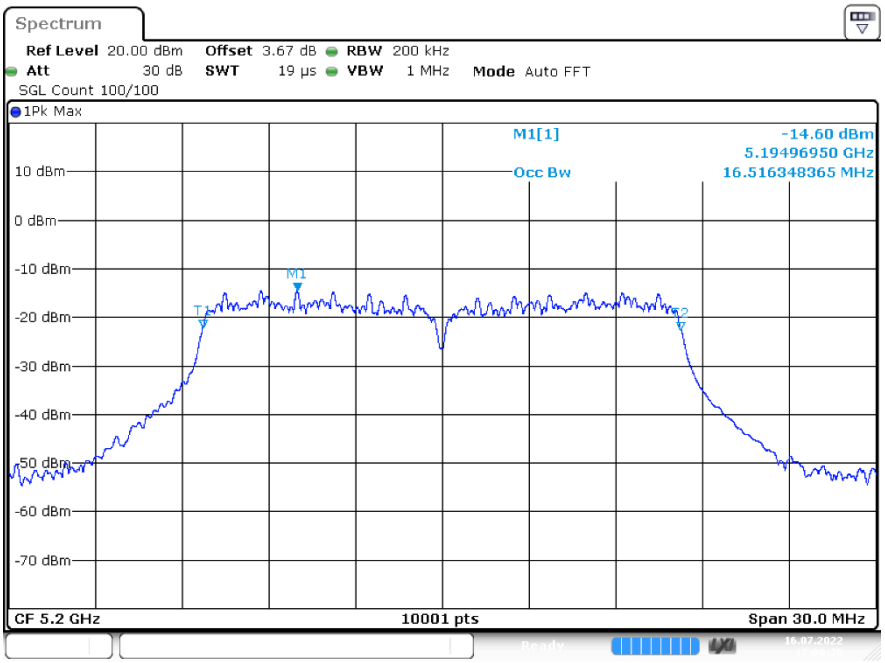


4 Occupied Channel Bandwidth

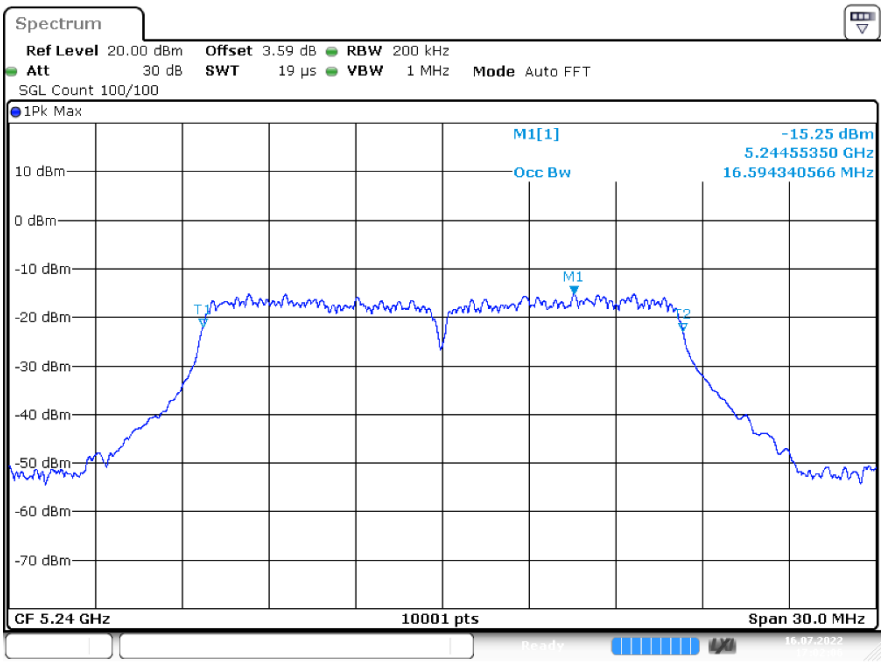
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.486
a	5200	Ant1	16.516
a	5240	Ant1	16.594
n20	5180	Ant1	17.839
n20	5200	Ant1	17.683
n20	5240	Ant1	17.707
n40	5190	Ant1	36.23
n40	5230	Ant1	36.536
ac20	5180	Ant1	17.767
ac20	5200	Ant1	17.758
ac20	5240	Ant1	17.665
ac40	5190	Ant1	36.386
ac40	5230	Ant1	36.29
ac80	5210	Ant1	76.108

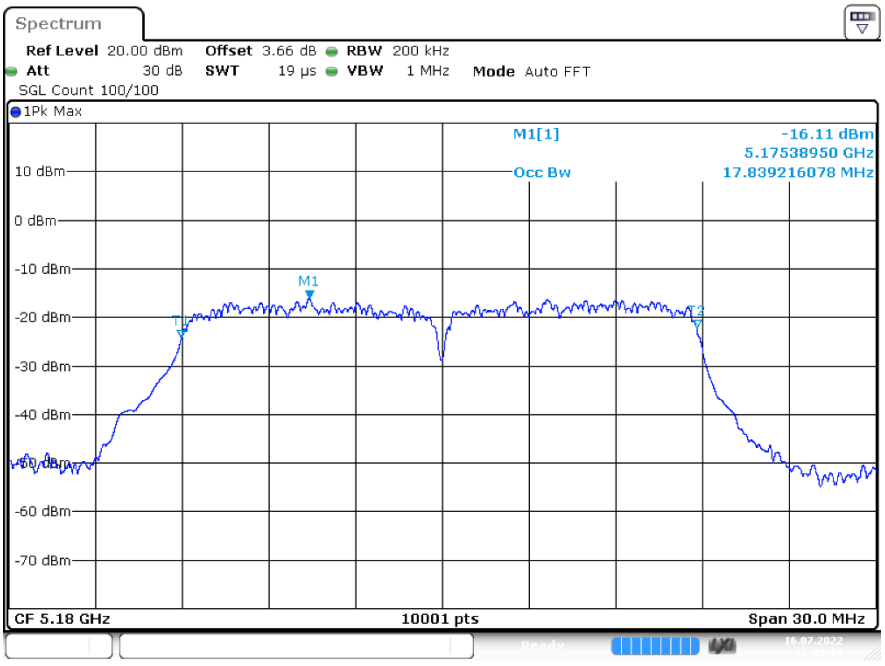
4.2 Test Graphs

Test Graphs
OBWa 5180MHz Ant1

OBWa 5200MHz Ant1


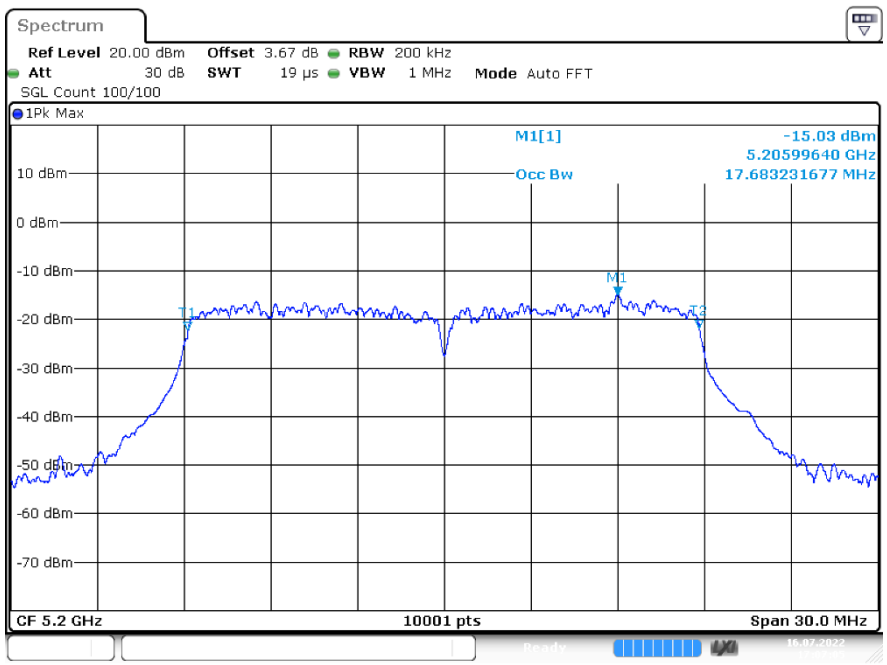
OBWa 5240MHz Ant1



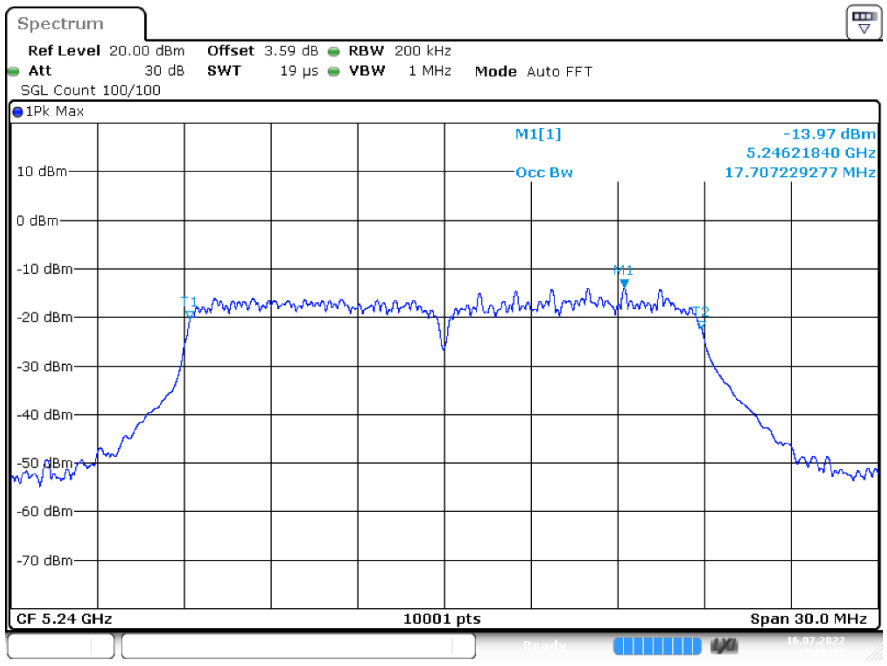
OBW n20 5180MHz Ant1



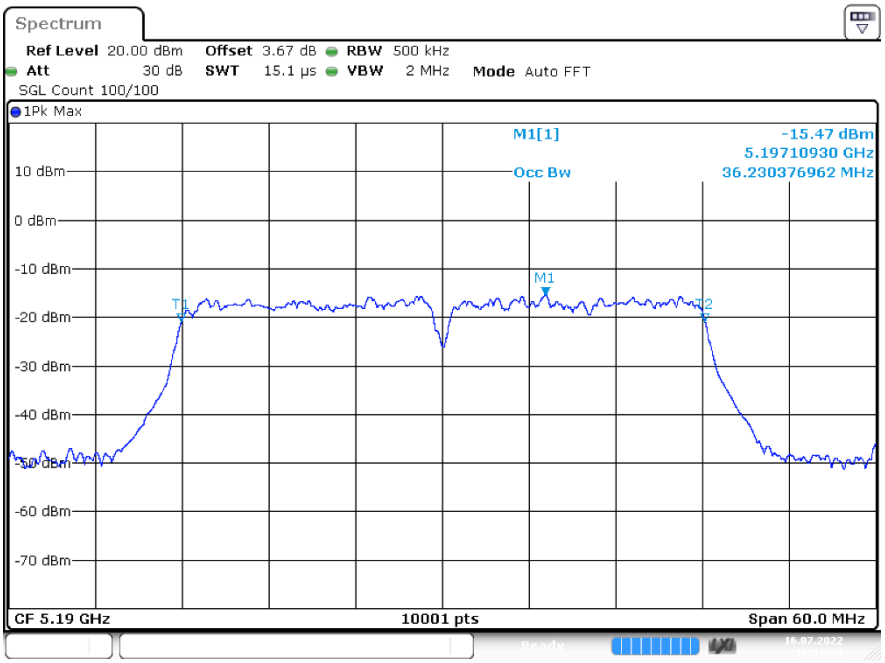
OBW n20 5200MHz Ant1



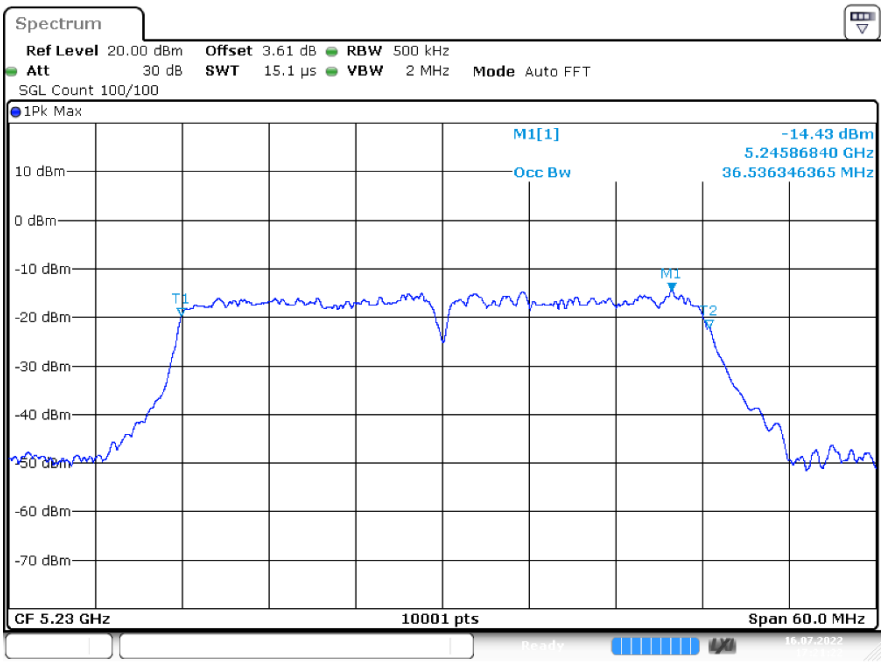
OBW n20 5240MHz Ant1



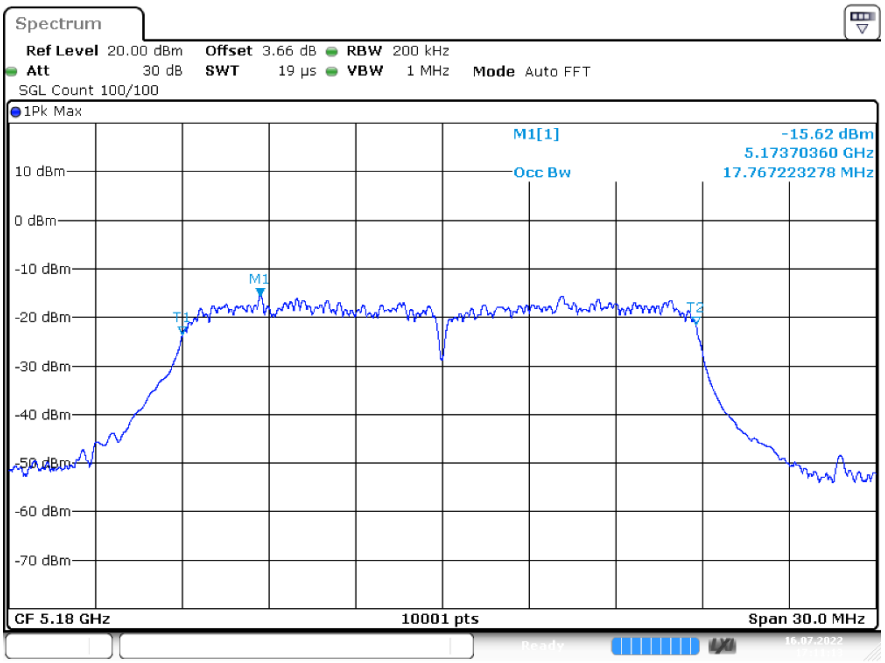
OBWn40 5190MHz Ant1



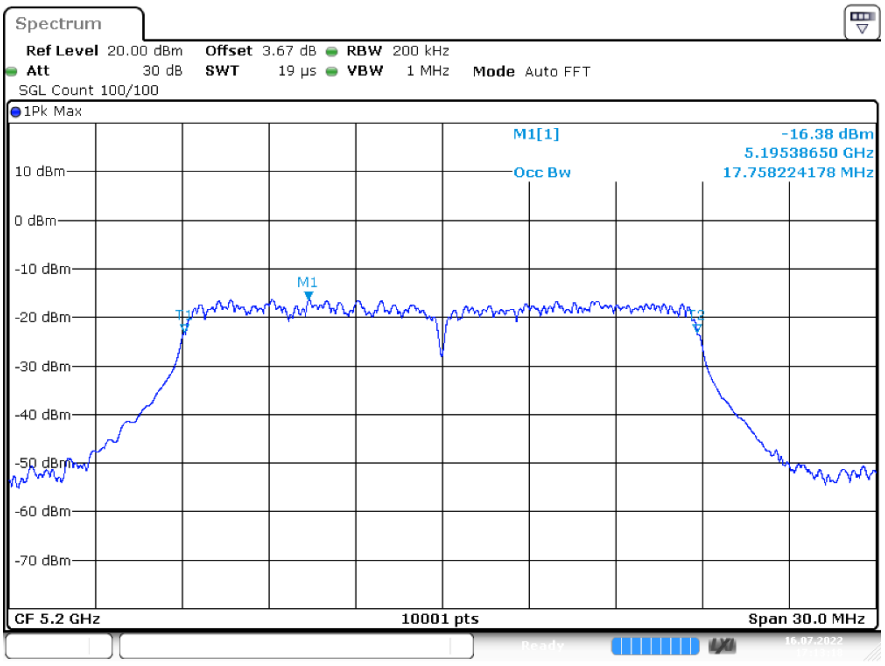
OBWn40 5230MHz Ant1



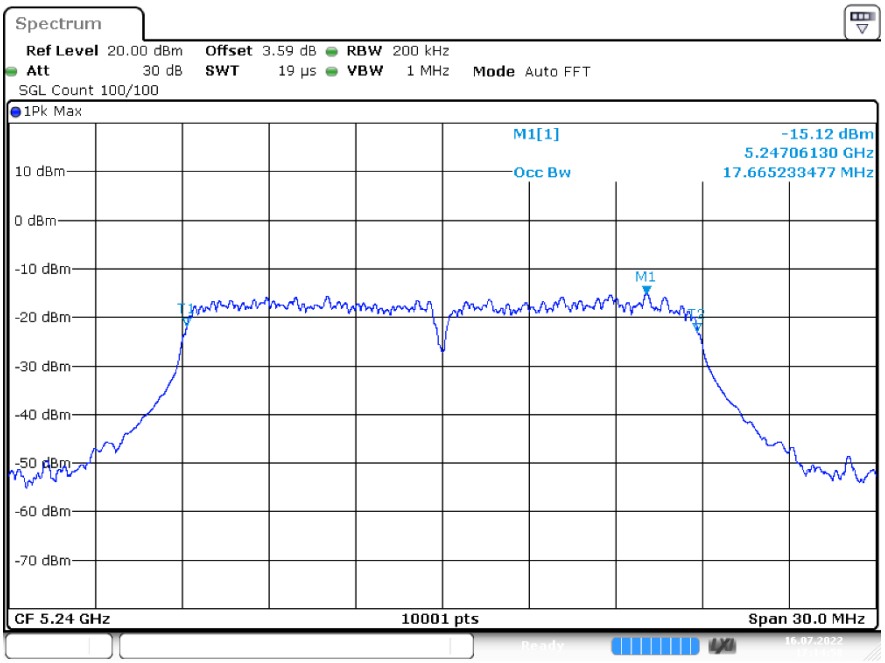
OBW ac20 5180MHz Ant1



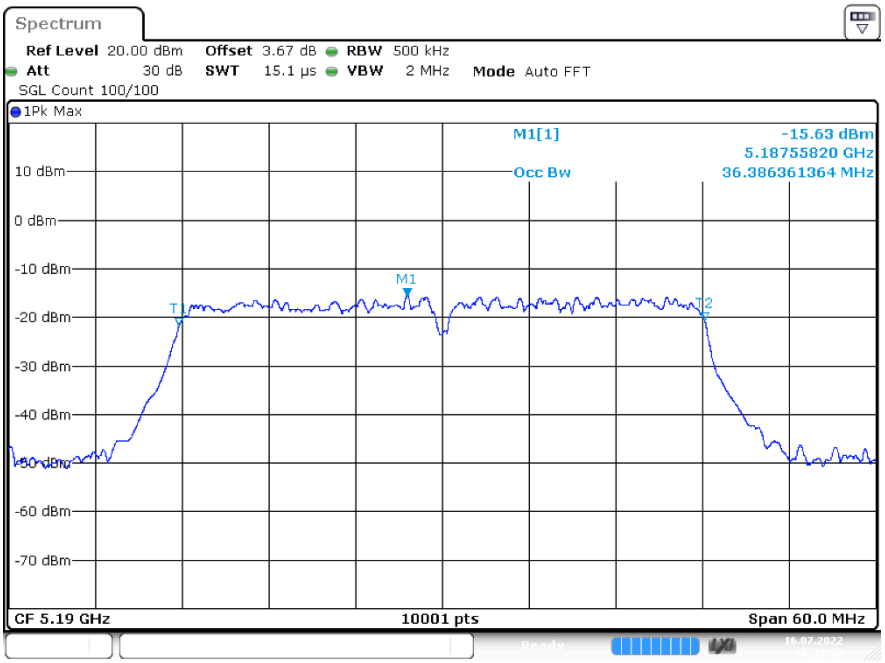
OBW ac20 5200MHz Ant1



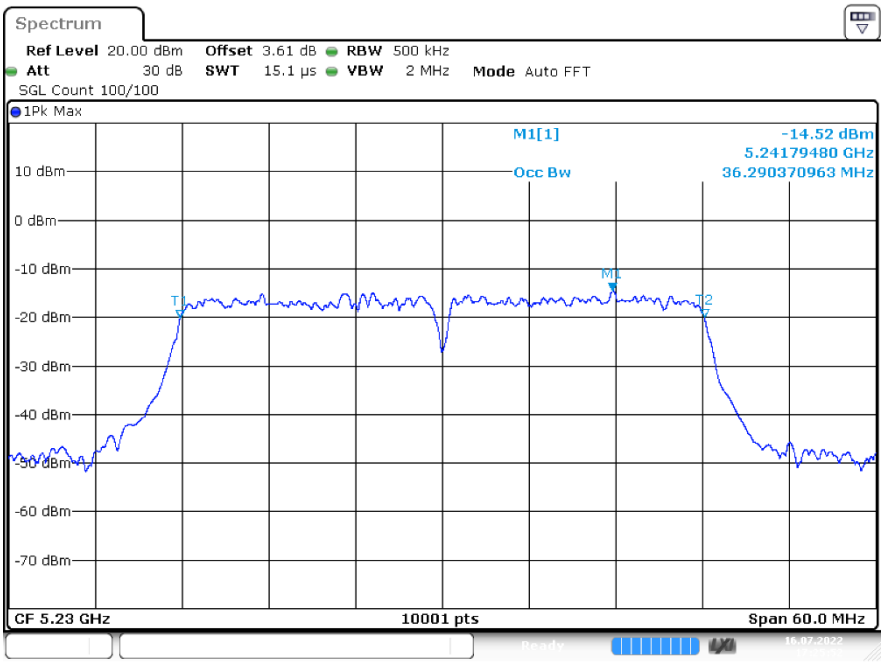
OBW ac20 5240MHz Ant1



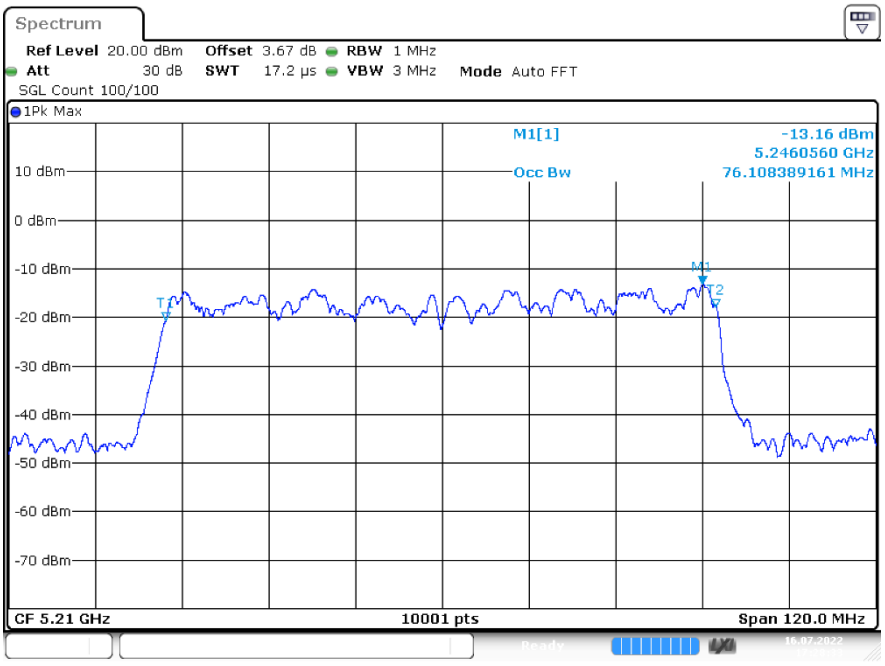
OBWac40 5190MHz Ant1



OBWac40 5230MHz Ant1



OBWac80 5210MHz Ant1



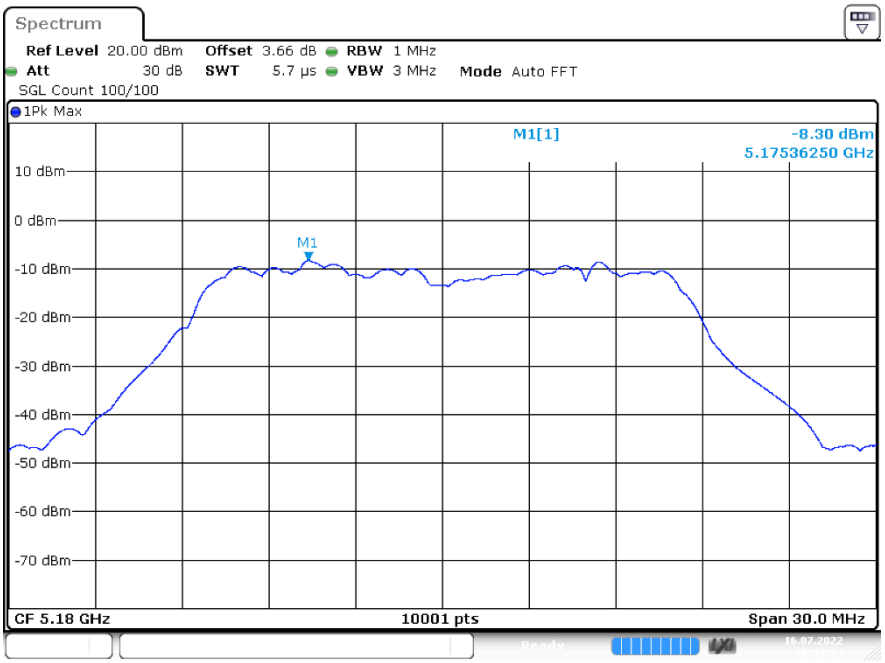
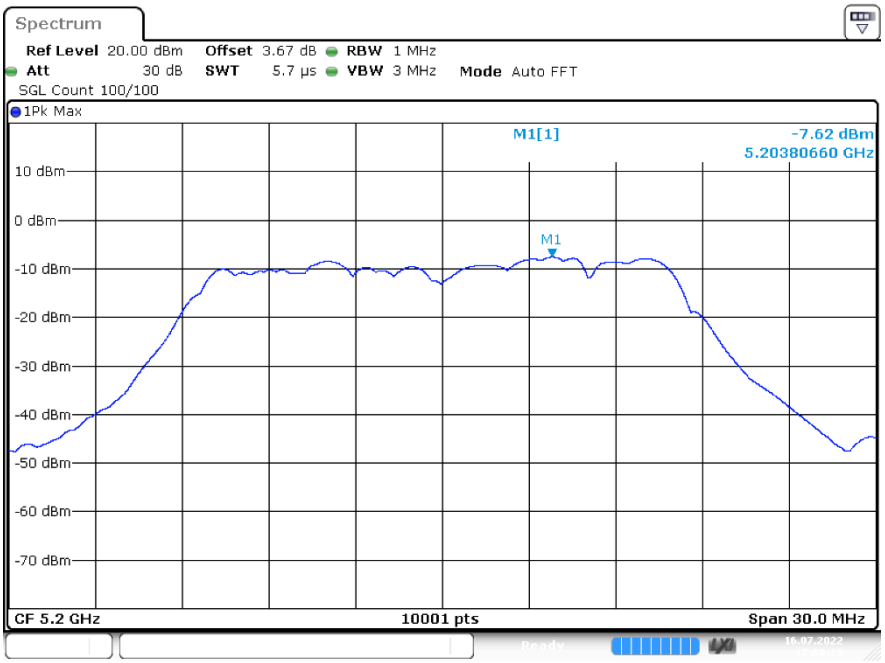
5 Maximum Power Spectral Density Level

5.1 Test Result

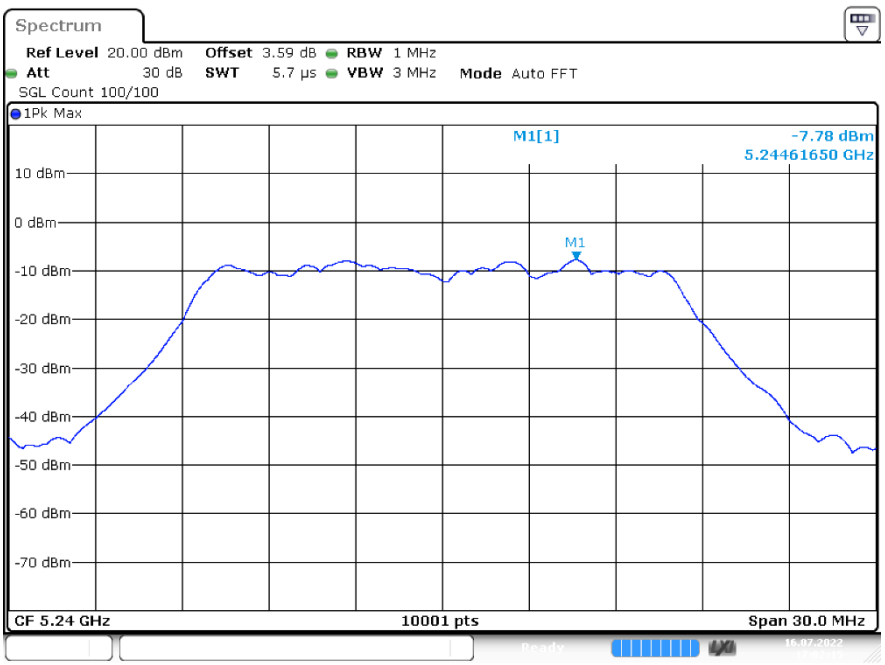
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
a	5180	Ant1	-8.3	0.21	-8.09	11	Pass
a	5200	Ant1	-7.62	0.2	-7.42	11	Pass
a	5240	Ant1	-7.78	0.18	-7.60	11	Pass
n20	5180	Ant1	-8.78	0.2	-8.58	11	Pass
n20	5200	Ant1	-8.93	0.22	-8.71	11	Pass
n20	5240	Ant1	-8.17	0.21	-7.96	11	Pass
n40	5190	Ant1	-11.28	0.4	-10.88	11	Pass
n40	5230	Ant1	-10.02	0.38	-9.64	11	Pass
ac20	5180	Ant1	-8.76	0.19	-8.57	11	Pass
ac20	5200	Ant1	-8.72	0.2	-8.52	11	Pass
ac20	5240	Ant1	-8.1	0.21	-7.89	11	Pass
ac40	5190	Ant1	-11.38	0.42	-10.96	11	Pass
ac40	5230	Ant1	-11.05	0.43	-10.62	11	Pass
ac80	5210	Ant1	-13.61	0.95	-12.66	11	Pass

Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Antenna Gain(dBi)	Total EIRP PSD (dBm/MHz)	ISED Limit (dBm/MHz)	Verdict
a	5180	Ant1	-8.3	0.21	0	-8.09	10	Pass
a	5200	Ant1	-7.62	0.2	0	-7.42	10	Pass
a	5240	Ant1	-7.78	0.18	0	-7.60	10	Pass
n20	5180	Ant1	-8.78	0.2	0	-8.58	10	Pass
n20	5200	Ant1	-8.93	0.22	0	-8.71	10	Pass
n20	5240	Ant1	-8.17	0.21	0	-7.96	10	Pass
n40	5190	Ant1	-11.28	0.4	0	-10.88	10	Pass
n40	5230	Ant1	-10.02	0.38	0	-9.64	10	Pass
ac20	5180	Ant1	-8.76	0.19	0	-8.57	10	Pass
ac20	5200	Ant1	-8.72	0.2	0	-8.52	10	Pass
ac20	5240	Ant1	-8.1	0.21	0	-7.89	10	Pass
ac40	5190	Ant1	-11.38	0.42	0	-10.96	10	Pass
ac40	5230	Ant1	-11.05	0.43	0	-10.62	10	Pass
ac80	5210	Ant1	-13.61	0.95	0	-12.66	10	Pass

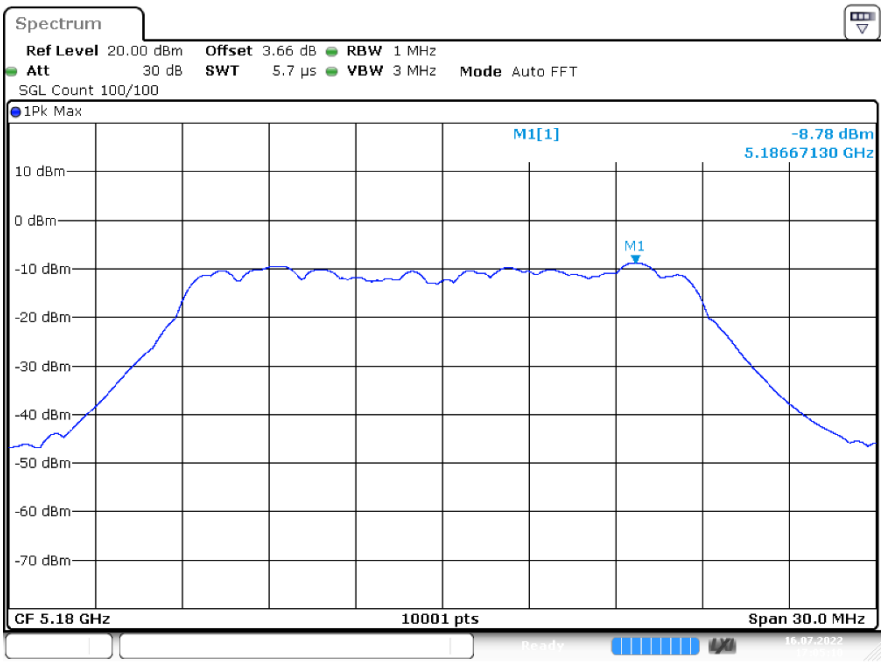
5.2 Test Graphs

Test Graphs
PSDa 5180MHz Ant1

PSD a 5200MHz Ant1


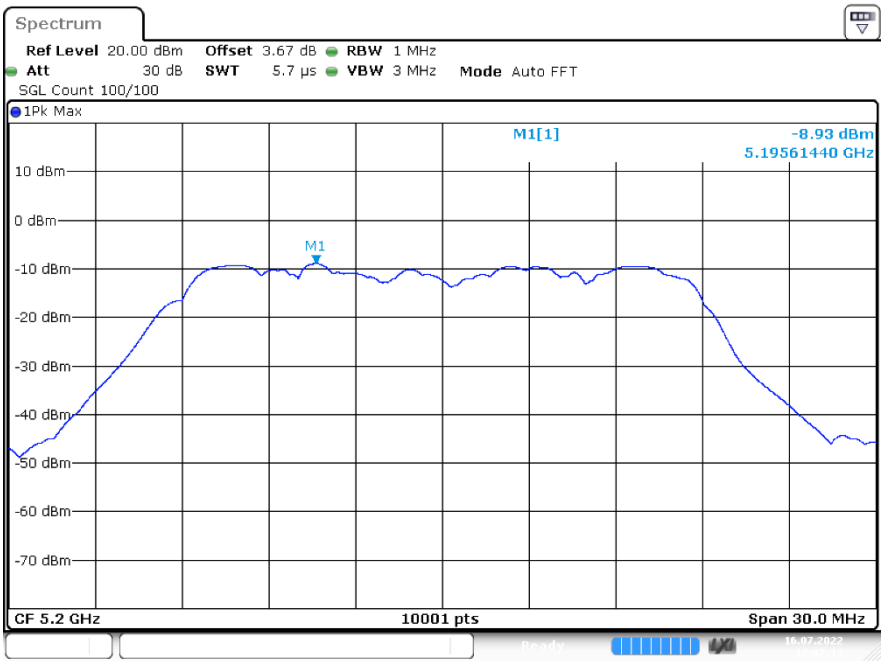
PSDa 5240MHz Ant1



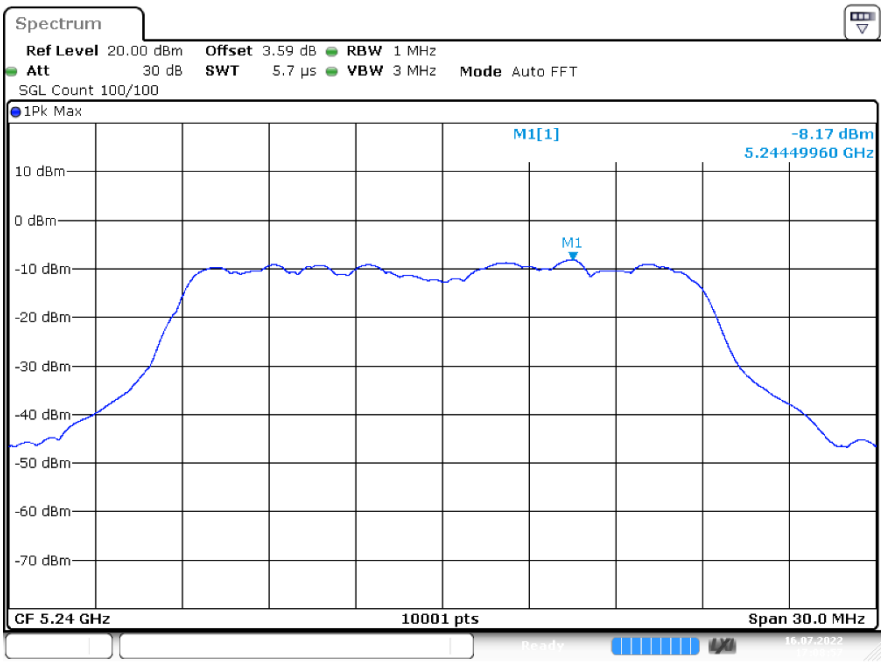
PSD n20 5180MHz Ant1



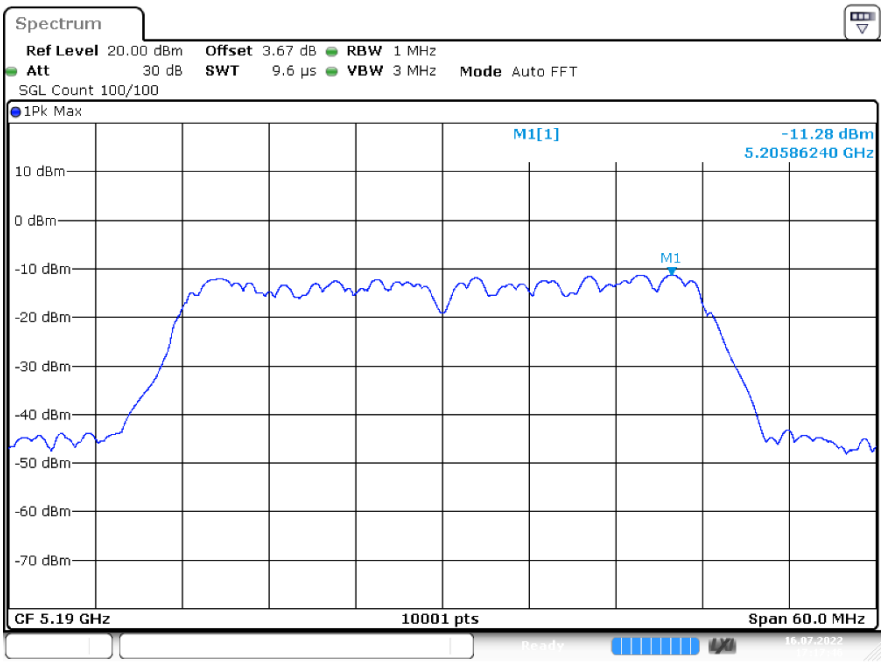
PSD n20 5200MHz Ant1



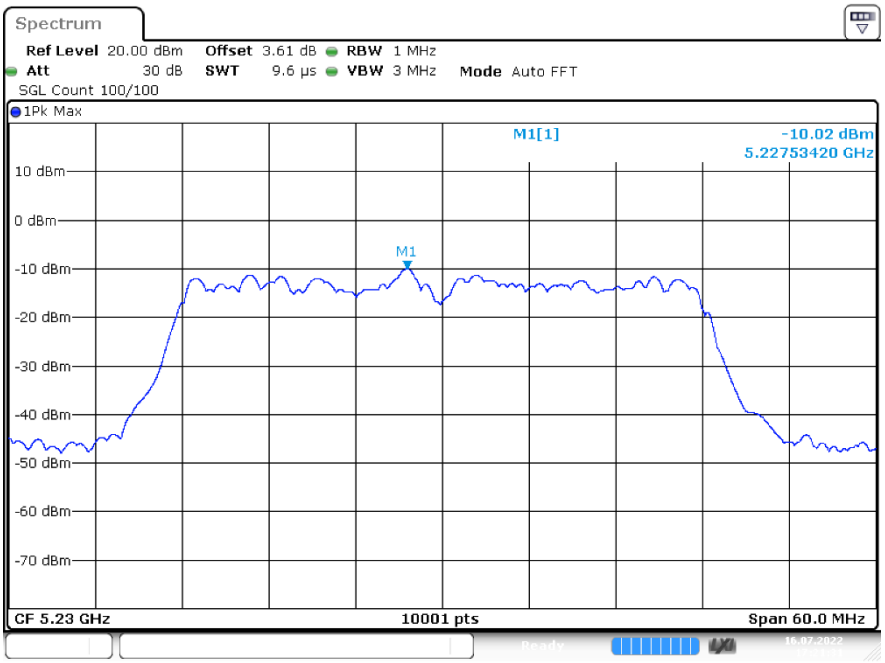
PSD n20 5240MHz Ant1



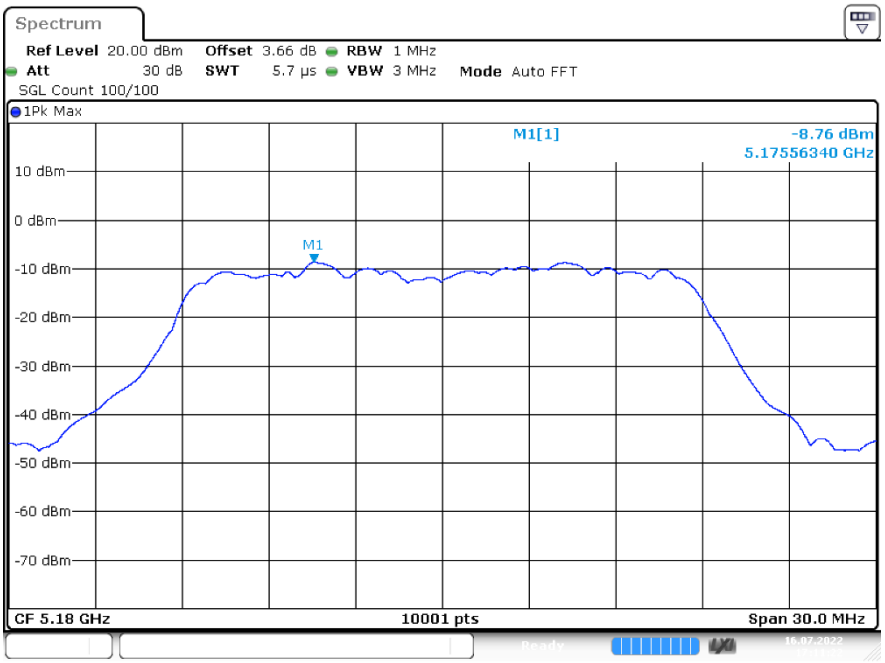
PSDn40 5190MHz Ant1



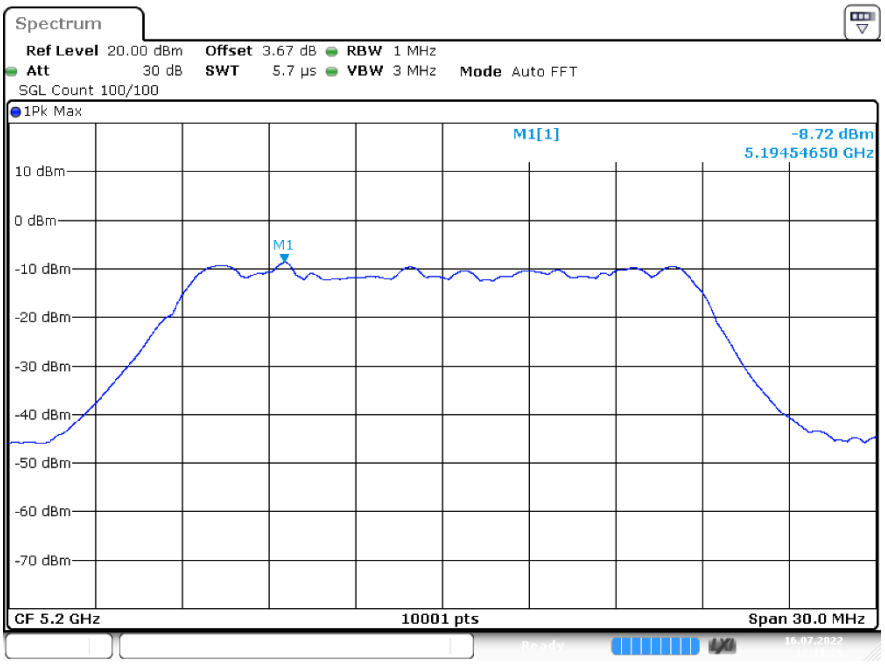
PSDn40 5230MHz Ant1



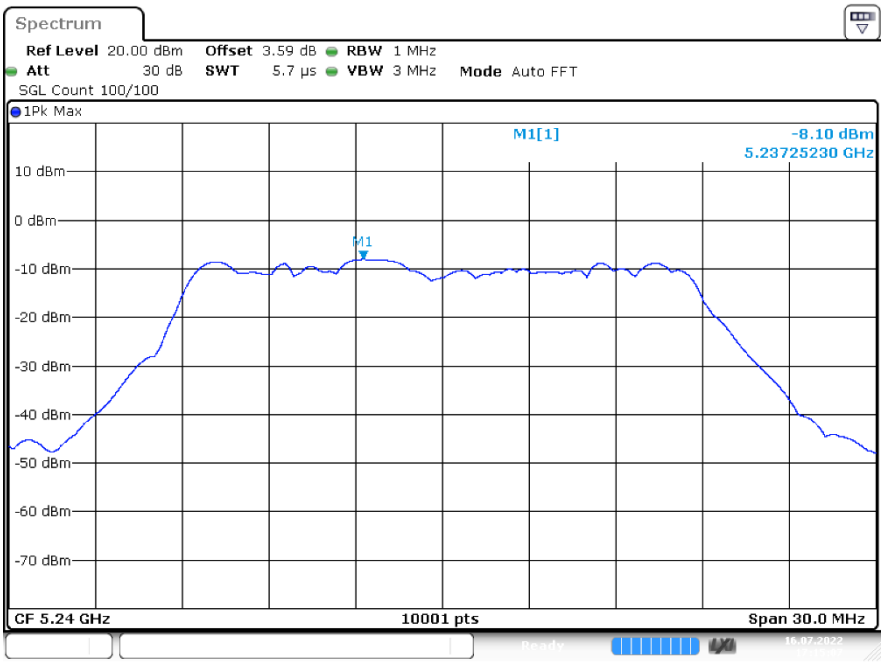
PSD ac20 5180MHz Ant1



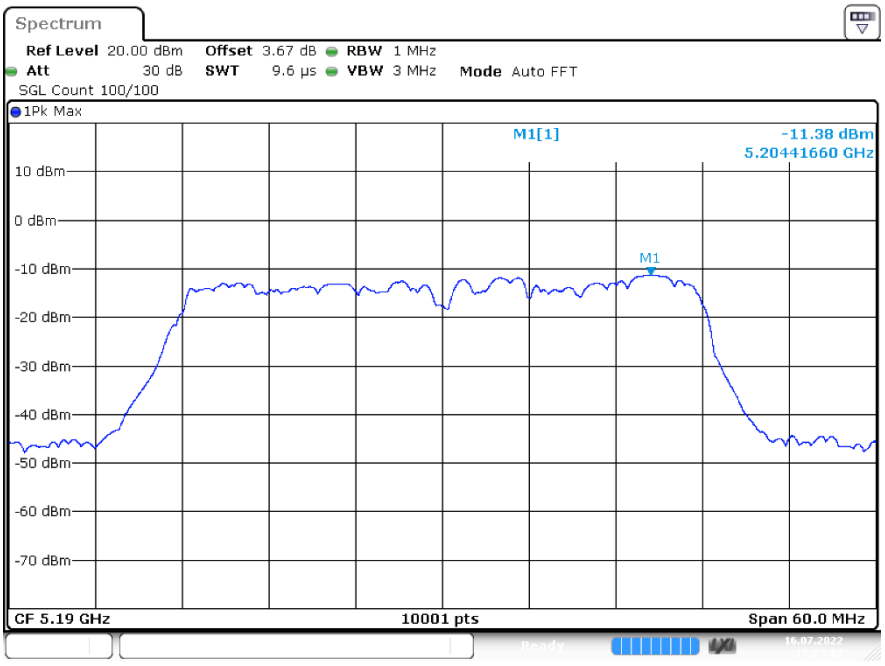
PSD ac20 5200MHz Ant1



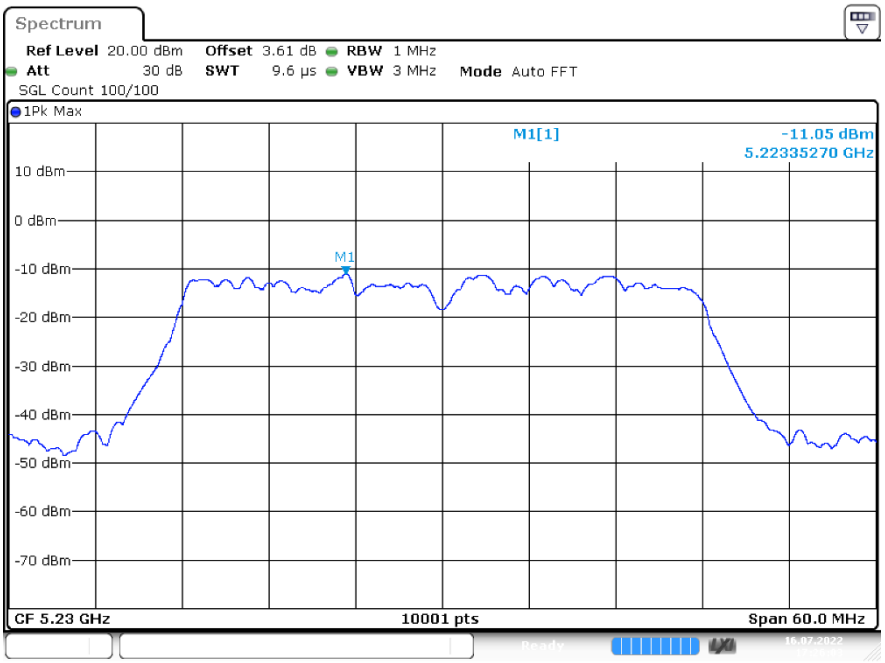
PSD ac20 5240MHz Ant1



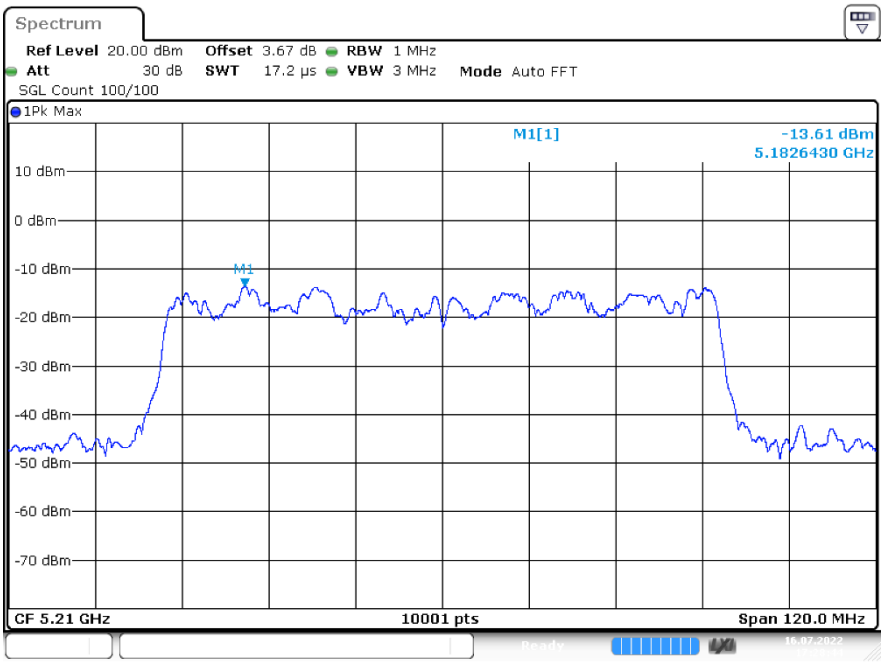
PSDac40 5190MHz Ant1



PSDac40 5230MHz Ant1



PSDac80 5210MHz Ant1



6 Frequency Stability

6.1 Test Result

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 102V	a	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 138V	a	5180	Ant1	5179.96	-40000	-7.72	25	Pass
-20C 120V	a	5180	Ant1	5179.96	-40000	-7.72	25	Pass
-10C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
0C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 120V	a	5180	Ant1	5180	0	0	25	Pass
30C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
40C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
50C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 102V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 120V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 138V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
-20C 120V	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-10C 120V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
0C 120V	a	5200	Ant1	5200	0	0	25	Pass
10C 120V	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
30C 120V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
40C 120V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 102V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 102V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
20C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 138V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
-20C 120V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
-10C 120V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
0C 120V	a	5240	Ant1	5240	0	0	25	Pass
10C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
30C 120V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
40C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
50C 120V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
20C 102V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 138V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-20C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-10C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass

0C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 120V	n20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
30C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
40C 120V	n20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
50C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 102V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 120V	n20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 138V	n20	5200	Ant1	5199.94	-60000	-11.54	25	Pass
-20C 120V	n20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
-10C 120V	n20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
0C 120V	n20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
10C 120V	n20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
30C 120V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
40C 120V	n20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
50C 120V	n20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 102V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
20C 120V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
20C 138V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
-20C 120V	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
-10C 120V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
0C 120V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
10C 120V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
30C 120V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
40C 120V	n20	5240	Ant1	5240	0	0	25	Pass
50C 120V	n20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
20C 102V	n40	5190	Ant1	5190	0	0	25	Pass
20C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 138V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
-20C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
-10C 120V	n40	5190	Ant1	5190	0	0	25	Pass
0C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
10C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
30C 120V	n40	5190	Ant1	5190	0	0	25	Pass
40C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
50C 120V	n40	5190	Ant1	5190	0	0	25	Pass
20C 102V	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
20C 120V	n40	5230	Ant1	5230	0	0	25	Pass
20C 138V	n40	5230	Ant1	5230	0	0	25	Pass
-20C 120V	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
-10C 120V	n40	5230	Ant1	5230	0	0	25	Pass
0C 120V	n40	5230	Ant1	5230	0	0	25	Pass
10C 120V	n40	5230	Ant1	5230	0	0	25	Pass
30C 120V	n40	5230	Ant1	5230	0	0	25	Pass

40C 120V	n40	5230	Ant1	5230	0	0	25	Pass
50C 120V	n40	5230	Ant1	5230	0	0	25	Pass
20C 102V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 138V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
-20C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
-10C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
0C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 120V	ac20	5180	Ant1	5180	0	0	25	Pass
30C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
40C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
50C 120V	ac20	5180	Ant1	5179.94	-60000	-11.58	25	Pass
20C 102V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 120V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 138V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
-20C 120V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
-10C 120V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
0C 120V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
10C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
30C 120V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
40C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
50C 120V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 102V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 138V	ac20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
-20C 120V	ac20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
-10C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
0C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
10C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
30C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
40C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
50C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 102V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 138V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
-20C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
-10C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
0C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
10C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
30C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
40C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
50C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 102V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass

20C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
20C 138V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
-20C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
-10C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
0C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
10C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
30C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
40C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
50C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
20C 102V	ac80	5210	Ant1	5210	0	0	25	Pass
20C 120V	ac80	5210	Ant1	5209.92	-80000	-15.36	25	Pass
20C 138V	ac80	5210	Ant1	5210	0	0	25	Pass
-20C 120V	ac80	5210	Ant1	5209.92	-80000	-15.36	25	Pass
-10C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
0C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
10C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
30C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
40C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
50C 120V	ac80	5210	Ant1	5210	0	0	25	Pass

7 Conducted RF Spurious Emission

7.1 Test Result

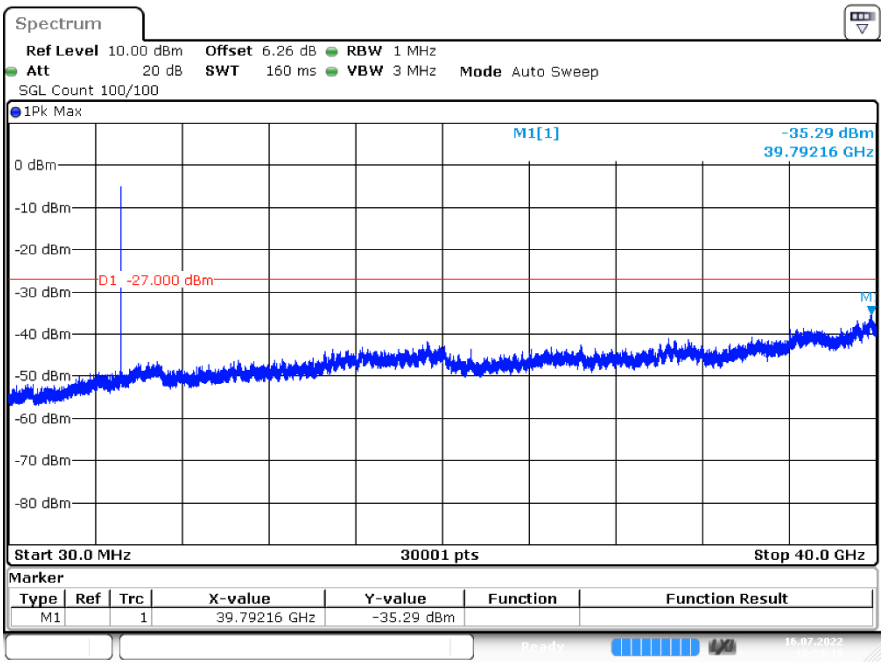
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
a	5180	Ant1	-35.28	-27	Pass
a	5200	Ant1	-35.85	-27	Pass
a	5240	Ant1	-35.75	-27	Pass
n20	5180	Ant1	-35.83	-27	Pass
n20	5200	Ant1	-35.88	-27	Pass
n20	5240	Ant1	-35.74	-27	Pass
n40	5190	Ant1	-34.92	-27	Pass
n40	5230	Ant1	-35.64	-27	Pass
ac20	5180	Ant1	-35.83	-27	Pass
ac20	5200	Ant1	-35.38	-27	Pass
ac20	5240	Ant1	-36.21	-27	Pass
ac40	5190	Ant1	-35.69	-27	Pass
ac40	5230	Ant1	-34.93	-27	Pass
ac80	5210	Ant1	-35.9	-27	Pass

Note:

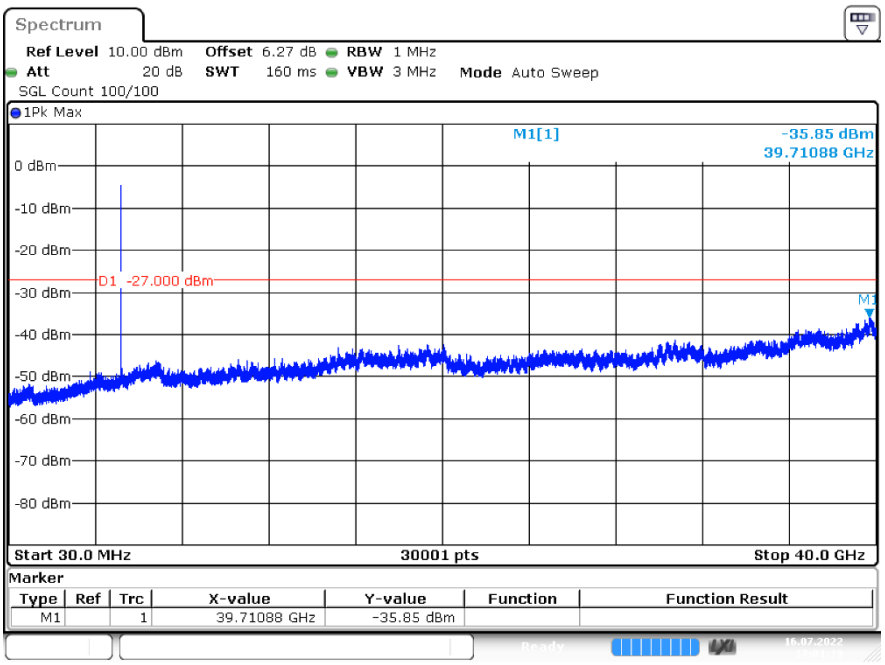
The antenna gain has been compensated into the test plot.

7.2 Test Graphs

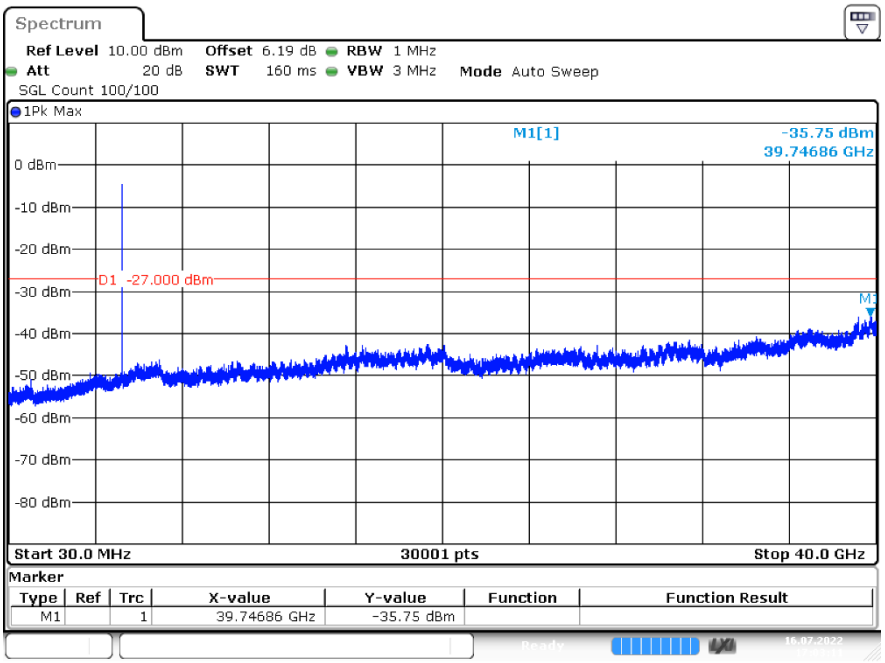
Test Graphs
Tx. Spuriousa 5180MHz Ant1



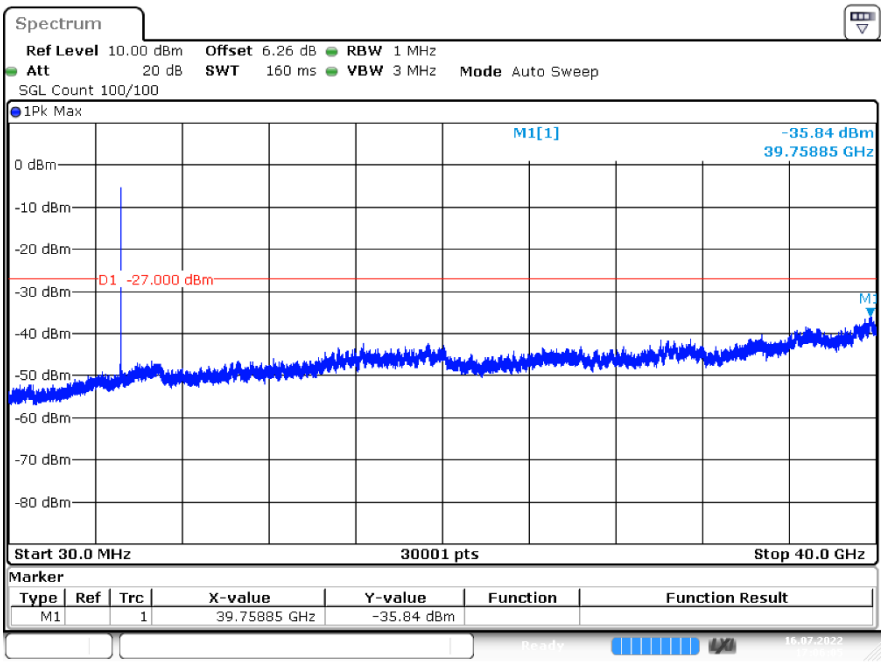
Tx. Spuriousa 5200MHz Ant1



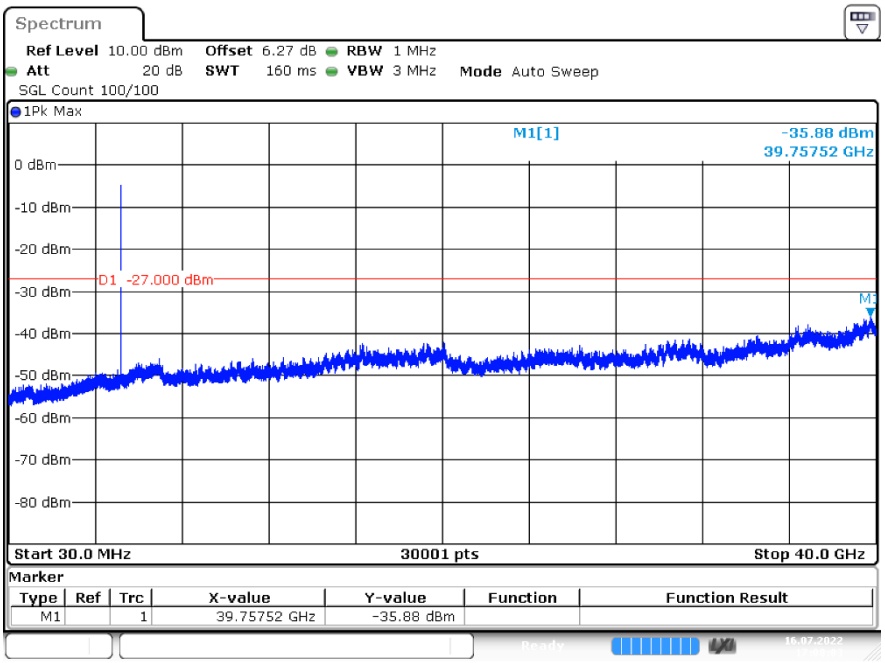
Tx. Spuriousa 5240MHz Ant1



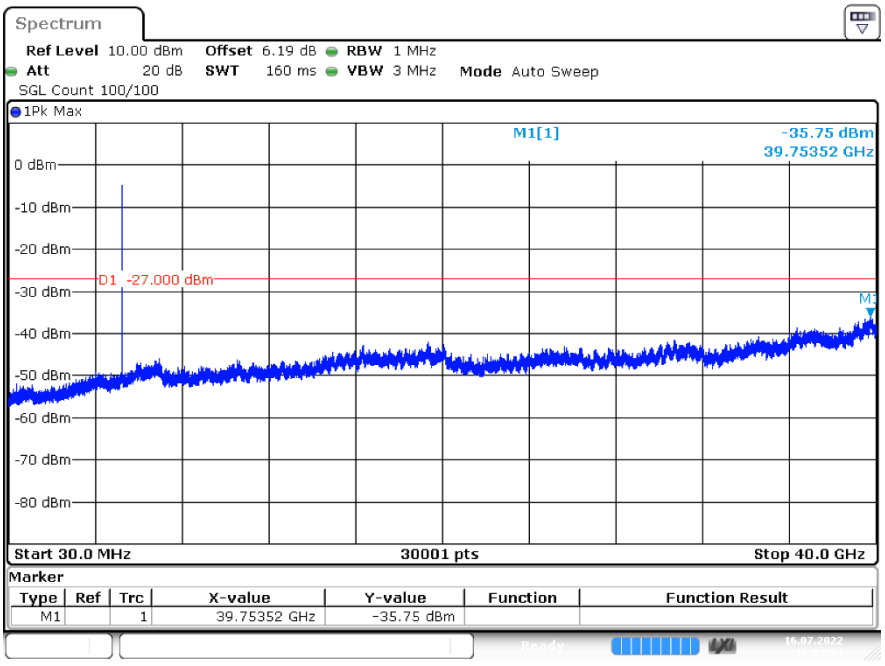
Tx. Spurious n20 5180MHz Ant1



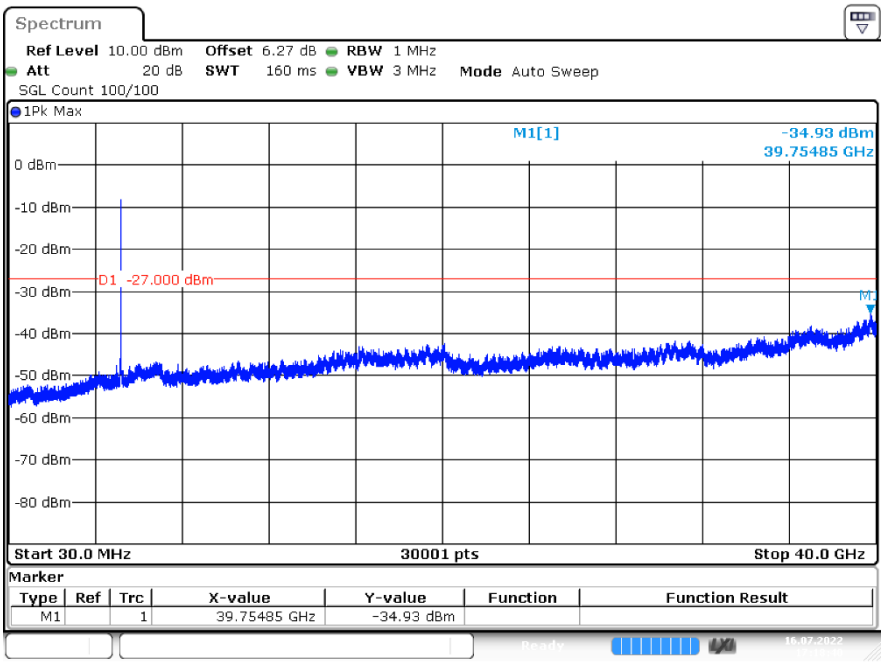
Tx. Spurious n20 5200MHz Ant1



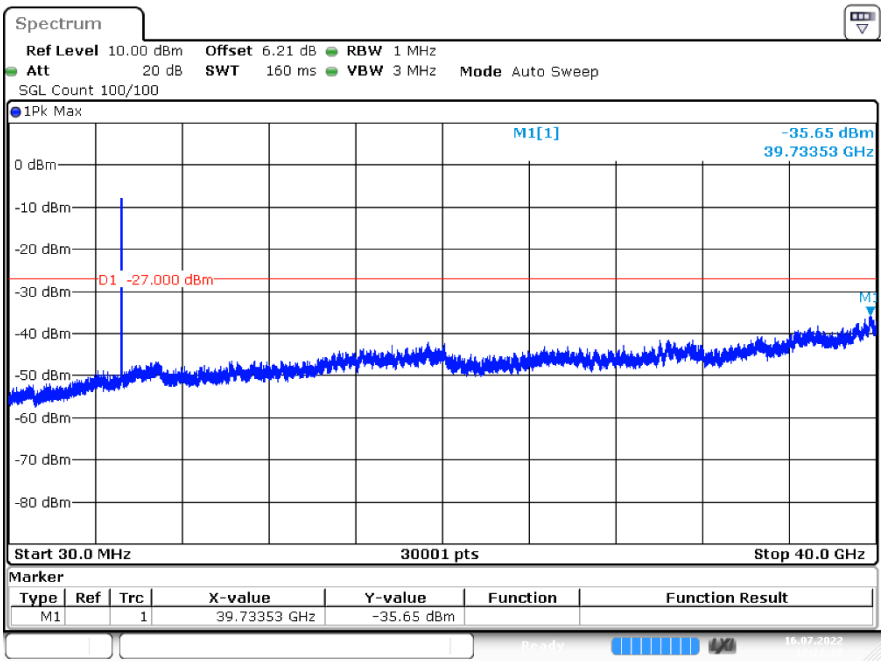
Tx. Spurious n20 5240MHz Ant1



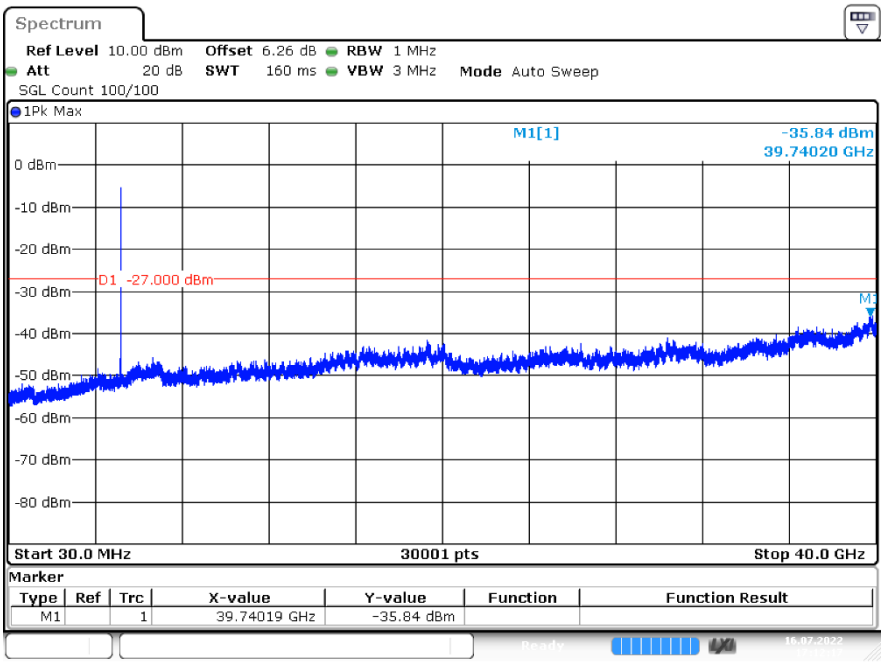
Tx. Spuriousn40 5190MHz Ant1



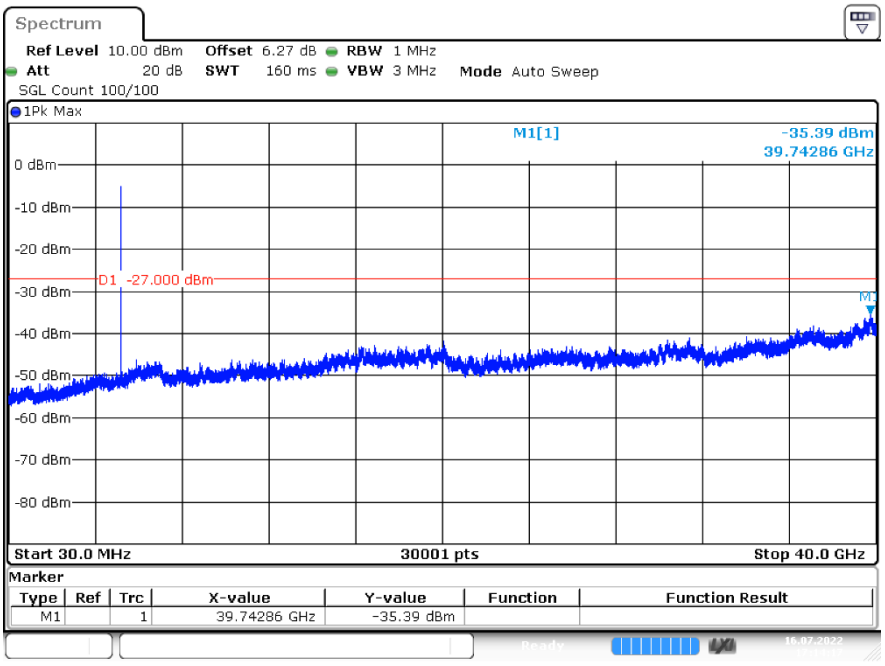
Tx. Spuriousn40 5230MHz Ant1



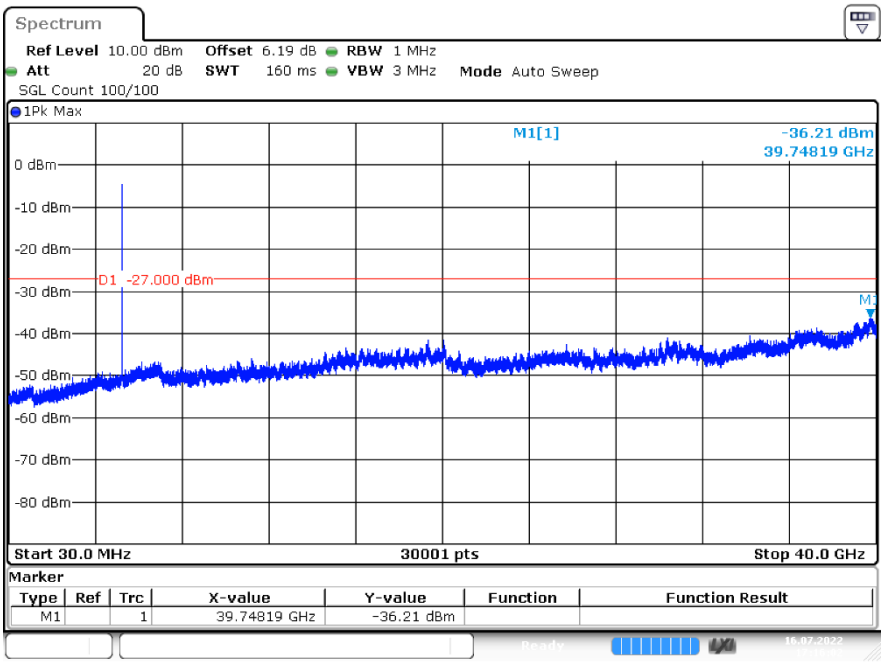
Tx. Spurious ac20 5180MHz Ant1



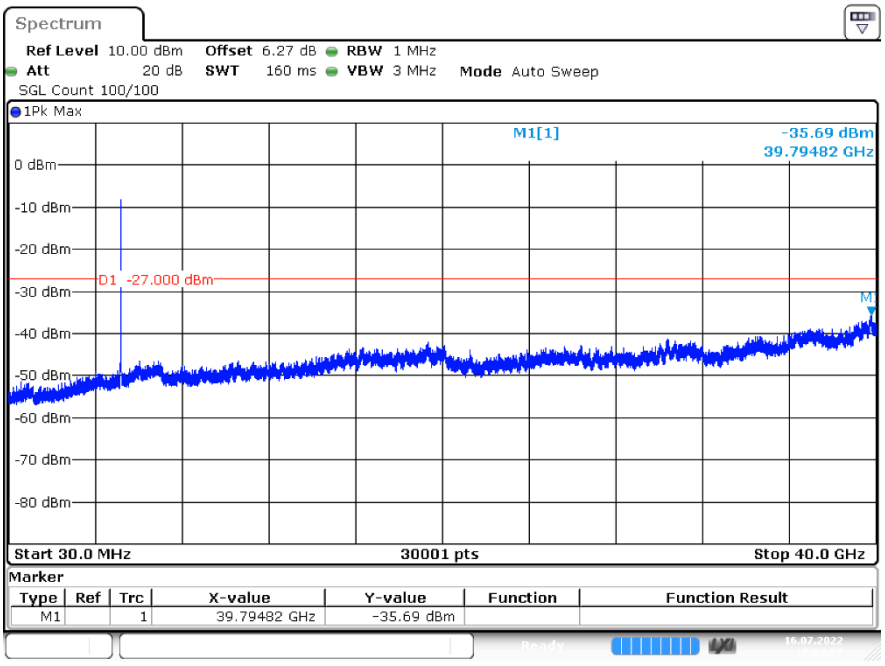
Tx. Spurious ac20 5200MHz Ant1



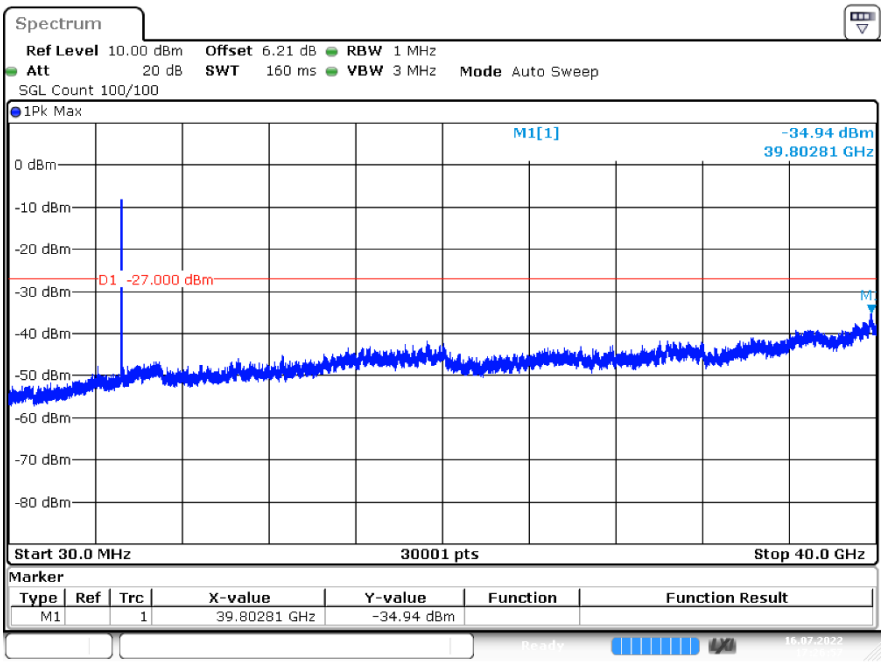
Tx. Spurious ac20 5240MHz Ant1



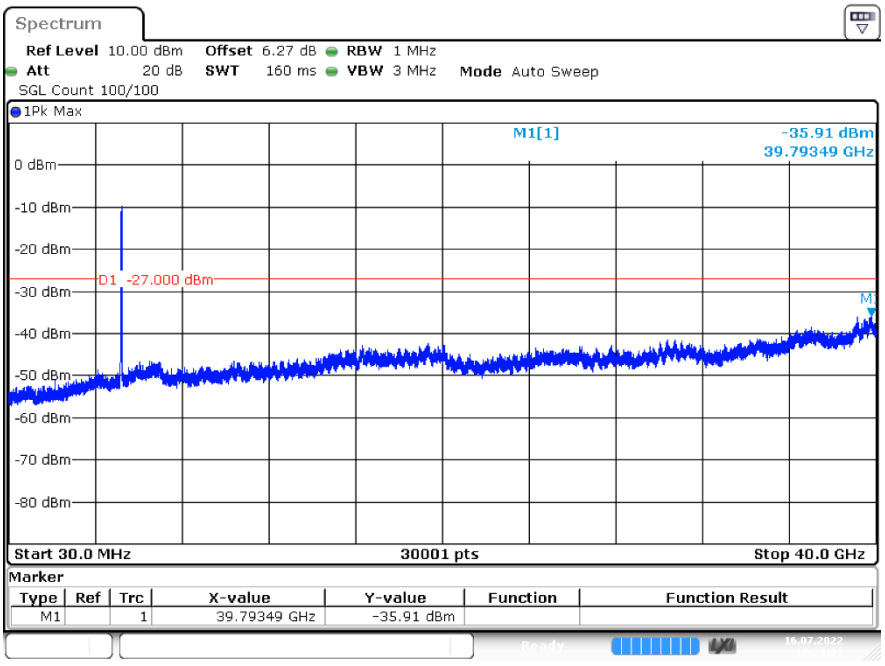
Tx. Spuriousac40 5190MHz Ant1



Tx. Spuriousac40 5230MHz Ant1



Tx. Spuriousac80 5210MHz Ant1



8 Restrict Band

8.1 Test Result

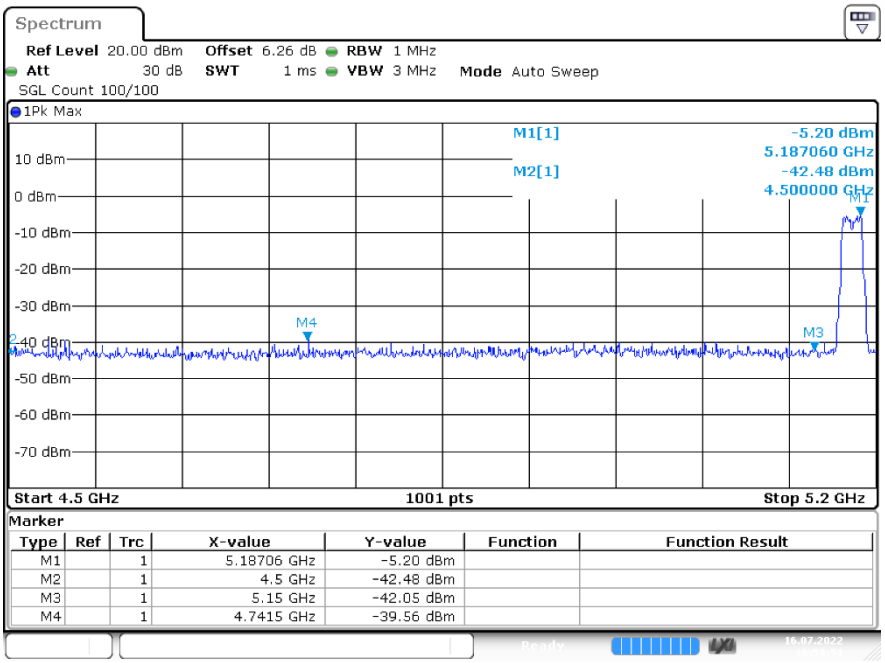
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
a	5180	Ant1	4500	-42.48	2	54.75	Peak	68.2	Pass
a	5180	Ant1	4500	-53.04	2	44.19	Average	54	Pass
a	5180	Ant1	4741.5	-39.56	2	57.67	Peak	68.2	Pass
a	5180	Ant1	4962.7	-50.38	2	46.85	Average	54	Pass
a	5180	Ant1	5150	-42.04	2	55.19	Peak	68.2	Pass
a	5180	Ant1	5150	-52.7	2	44.53	Average	54	Pass
a	5240	Ant1	5350	-43.65	2	53.58	Peak	68.2	Pass
a	5240	Ant1	5350	-52.91	2	44.32	Average	54	Pass
a	5240	Ant1	5447.76	-39.52	2	57.71	Peak	68.2	Pass
a	5240	Ant1	5446.8	-50.72	2	46.51	Average	54	Pass
a	5240	Ant1	5460	-42.09	2	55.14	Peak	68.2	Pass
a	5240	Ant1	5460	-52.48	2	44.75	Average	54	Pass
n20	5180	Ant1	4500	-43.74	2	53.49	Peak	68.2	Pass
n20	5180	Ant1	4500	-52.82	2	44.41	Average	54	Pass
n20	5180	Ant1	4950.1	-39.67	2	57.56	Peak	68.2	Pass
n20	5180	Ant1	4964.8	-50	2	47.23	Average	54	Pass
n20	5180	Ant1	5150	-41.23	2	56	Peak	68.2	Pass
n20	5180	Ant1	5150	-52.59	2	44.64	Average	54	Pass
n20	5240	Ant1	5350	-41.86	2	55.37	Peak	68.2	Pass
n20	5240	Ant1	5350	-52.71	2	44.52	Average	54	Pass
n20	5240	Ant1	5446.56	-39.51	2	57.72	Peak	68.2	Pass
n20	5240	Ant1	5448.48	-50.56	2	46.67	Average	54	Pass
n20	5240	Ant1	5460	-44.09	2	53.14	Peak	68.2	Pass
n20	5240	Ant1	5460	-52.32	2	44.91	Average	54	Pass
n40	5190	Ant1	4500	-42.44	2	54.79	Peak	68.2	Pass
n40	5190	Ant1	4500	-52.11	2	45.12	Average	54	Pass
n40	5190	Ant1	4962.82	-38.56	2	58.67	Peak	68.2	Pass
n40	5190	Ant1	4964.28	-49.67	2	47.56	Average	54	Pass
n40	5190	Ant1	5150	-42.93	2	54.3	Peak	68.2	Pass
n40	5190	Ant1	5150	-51.95	2	45.28	Average	54	Pass
n40	5230	Ant1	5350	-43.12	2	54.11	Peak	68.2	Pass
n40	5230	Ant1	5350	-52.2	2	45.03	Average	54	Pass
n40	5230	Ant1	5454.33	-39.65	2	57.58	Peak	68.2	Pass
n40	5230	Ant1	5447.58	-50.22	2	47.01	Average	54	Pass
n40	5230	Ant1	5460	-41.89	2	55.34	Peak	68.2	Pass

n40	5230	Ant1	5460	-51.68	2	45.55	Average	54	Pass
ac20	5180	Ant1	4500	-42.18	2	55.05	Peak	68.2	Pass
ac20	5180	Ant1	4500	-52.7	2	44.53	Average	54	Pass
ac20	5180	Ant1	4801.7	-39.96	2	57.27	Peak	68.2	Pass
ac20	5180	Ant1	4962.7	-50.22	2	47.01	Average	54	Pass
ac20	5180	Ant1	5150	-43.31	2	53.92	Peak	68.2	Pass
ac20	5180	Ant1	5150	-52.26	2	44.97	Average	54	Pass
ac20	5240	Ant1	5350	-43.69	2	53.54	Peak	68.2	Pass
ac20	5240	Ant1	5350	-52.61	2	44.62	Average	54	Pass
ac20	5240	Ant1	5384.4	-40.2	2	57.03	Peak	68.2	Pass
ac20	5240	Ant1	5447.04	-50.43	2	46.8	Average	54	Pass
ac20	5240	Ant1	5460	-43.08	2	54.15	Peak	68.2	Pass
ac20	5240	Ant1	5460	-52.17	2	45.06	Average	54	Pass
ac40	5190	Ant1	4500	-43.52	2	53.71	Peak	68.2	Pass
ac40	5190	Ant1	4500	-52.15	2	45.08	Average	54	Pass
ac40	5190	Ant1	4971.58	-39.79	2	57.44	Peak	68.2	Pass
ac40	5190	Ant1	4967.2	-49.85	2	47.38	Average	54	Pass
ac40	5190	Ant1	5150	-42.65	2	54.58	Peak	68.2	Pass
ac40	5190	Ant1	5150	-52.12	2	45.11	Average	54	Pass
ac40	5230	Ant1	5350	-42.54	2	54.69	Peak	68.2	Pass
ac40	5230	Ant1	5350	-52.12	2	45.11	Average	54	Pass
ac40	5230	Ant1	5450.82	-38.61	2	58.62	Peak	68.2	Pass
ac40	5230	Ant1	5448.39	-50.26	2	46.97	Average	54	Pass
ac40	5230	Ant1	5460	-41.02	2	56.21	Peak	68.2	Pass
ac40	5230	Ant1	5460	-51.94	2	45.29	Average	54	Pass
ac80	5210	Ant1	4500	-42.77	2	54.46	Peak	68.2	Pass
ac80	5210	Ant1	4500	-51.85	2	45.38	Average	54	Pass
ac80	5210	Ant1	4790.72	-40.03	2	57.2	Peak	68.2	Pass
ac80	5210	Ant1	4966.89	-49.24	2	47.99	Average	54	Pass
ac80	5210	Ant1	5150	-43.7	2	53.53	Peak	68.2	Pass
ac80	5210	Ant1	5150	-52.11	2	45.12	Average	54	Pass

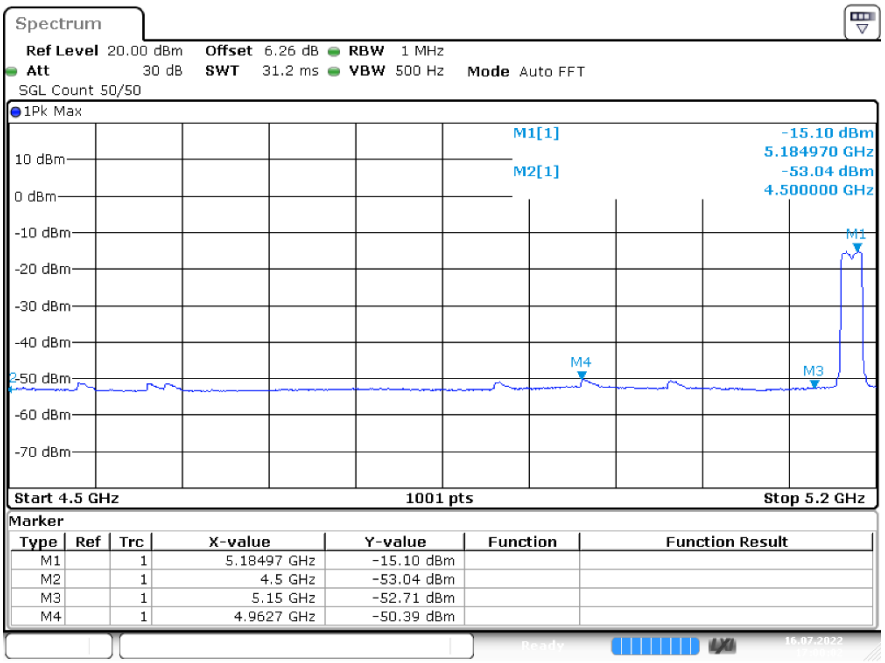
8.2 Test Graphs

Test Graphs

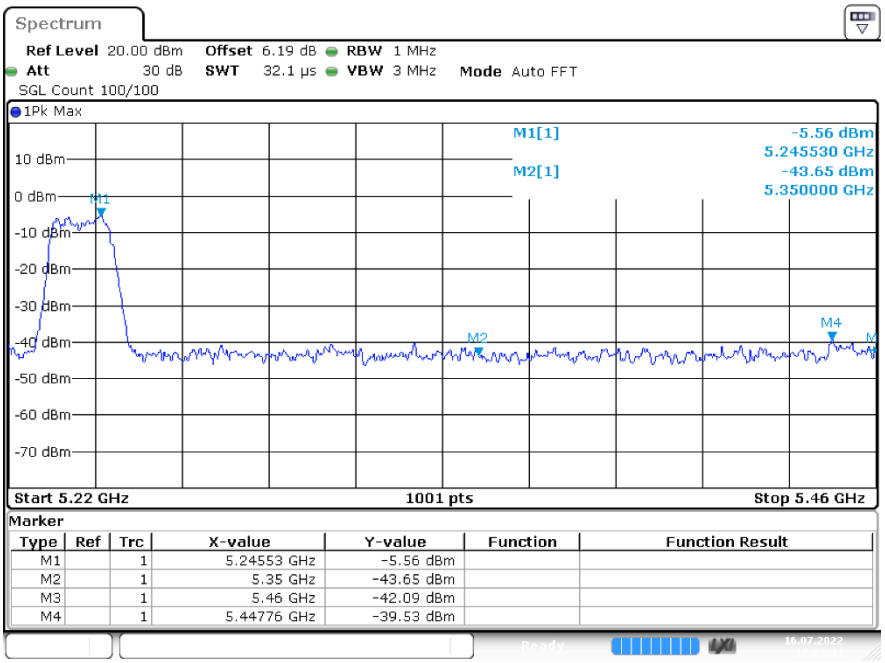
Restrict Banda 5180MHz Ant1 Peak



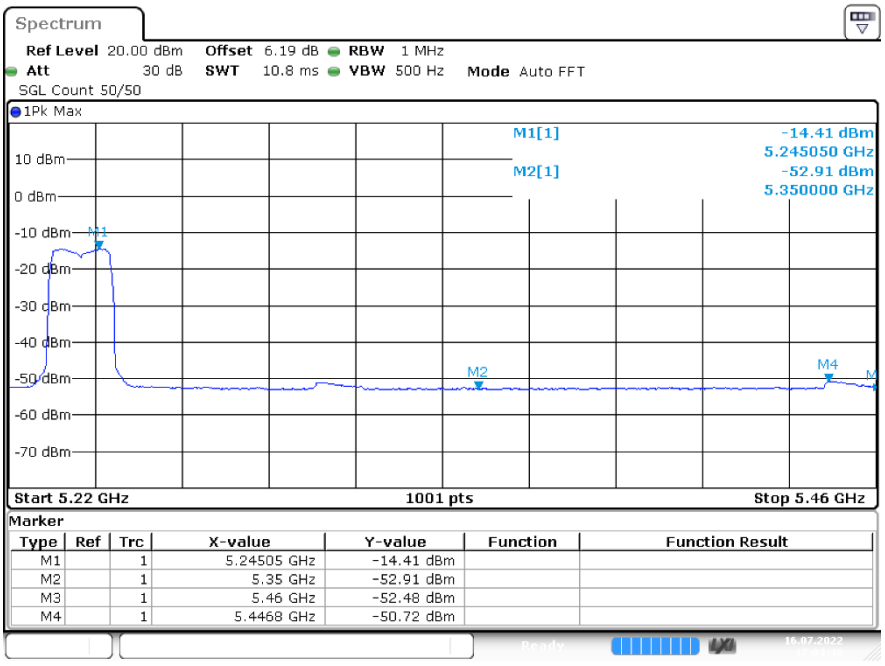
Restrict Band a 5180MHz Ant1 Average



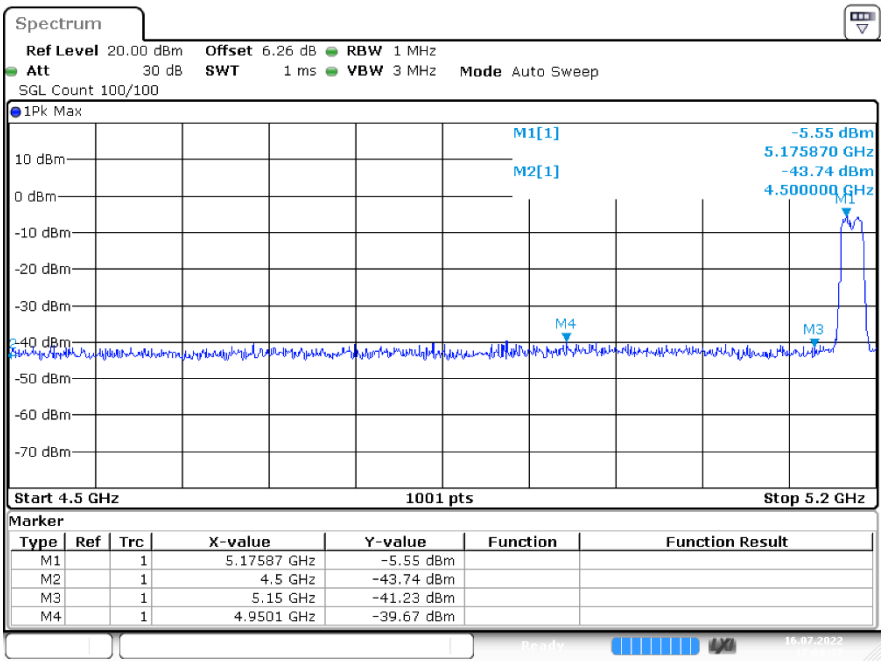
Restrict Banda 5240MHz Ant1 Peak



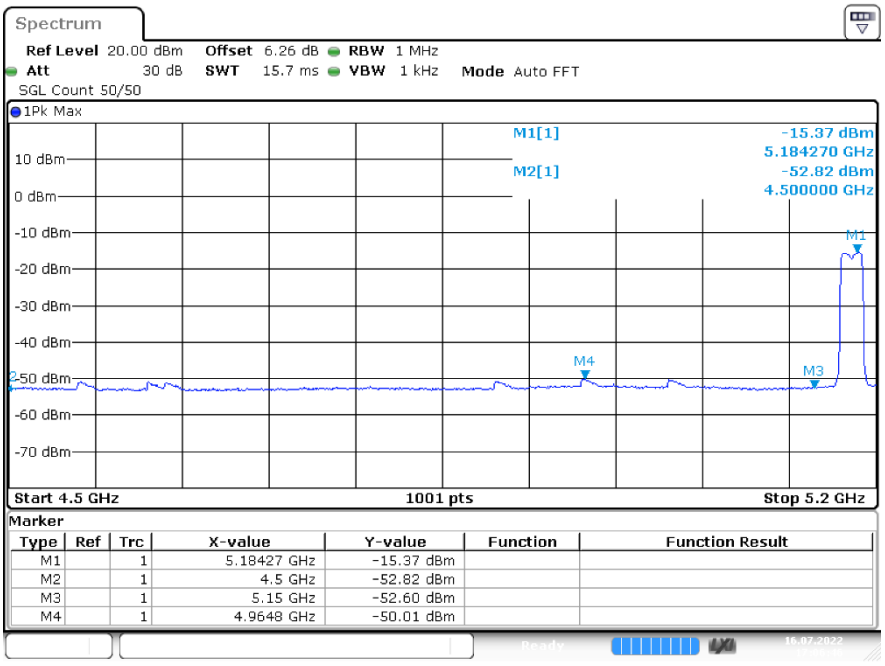
Restrict Band a 5240MHz Ant1 Average



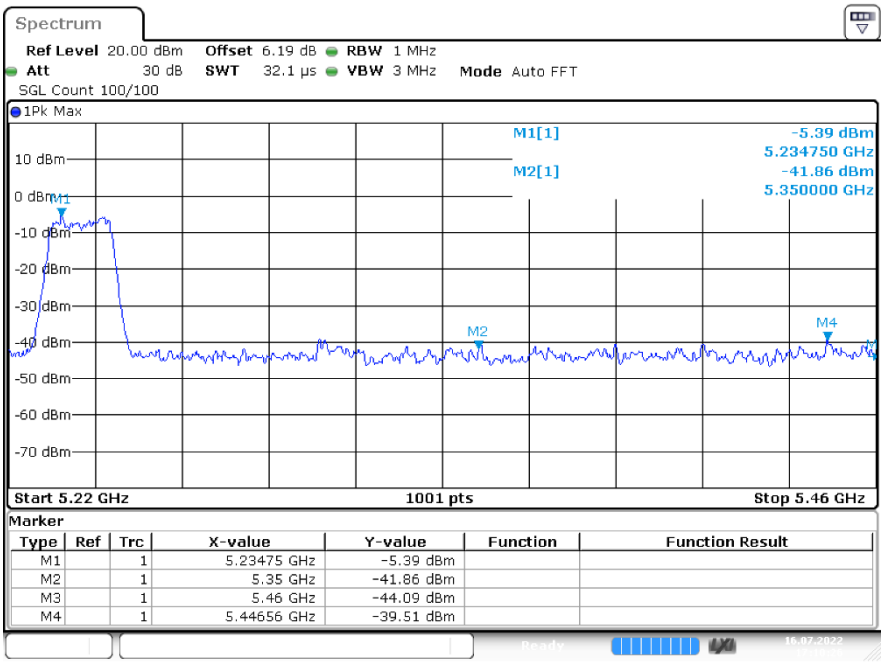
Restrict Bandn20 5180MHz Ant1 Peak



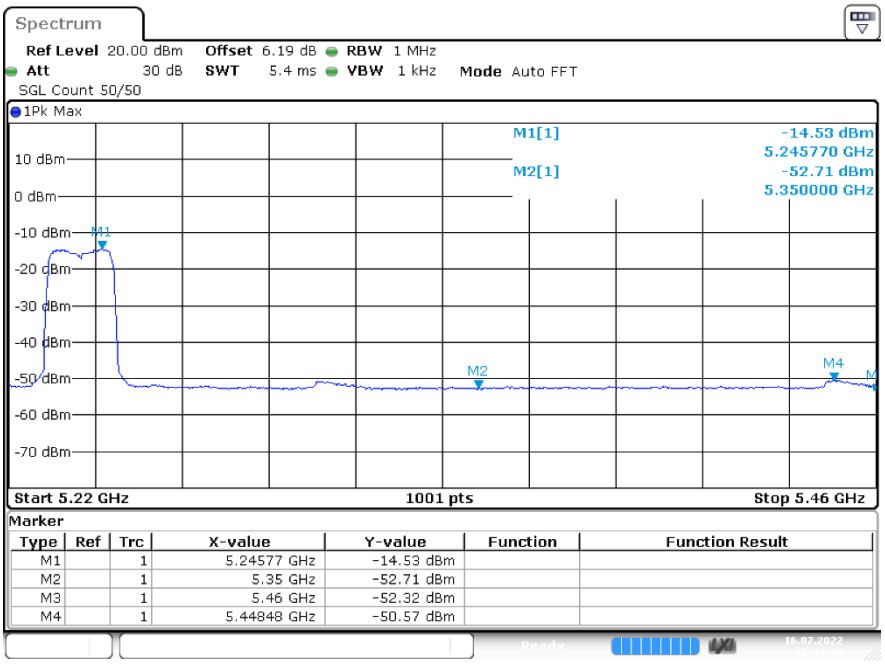
Restrict Band n20 5180MHz Ant1 Average



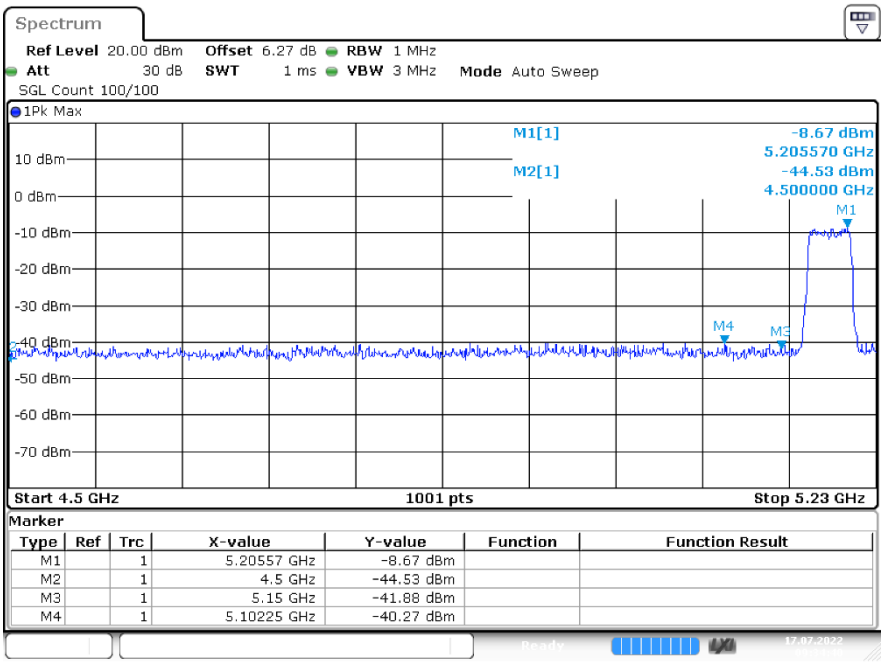
Restrict Bandn20 5240MHz Ant1 Peak



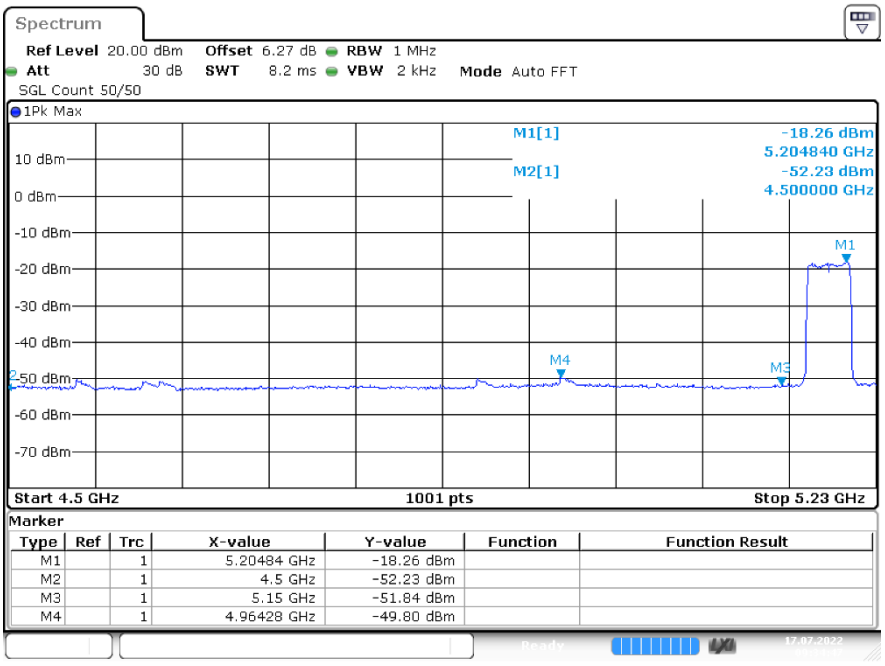
Restrict Band n20 5240MHz Ant1 Average



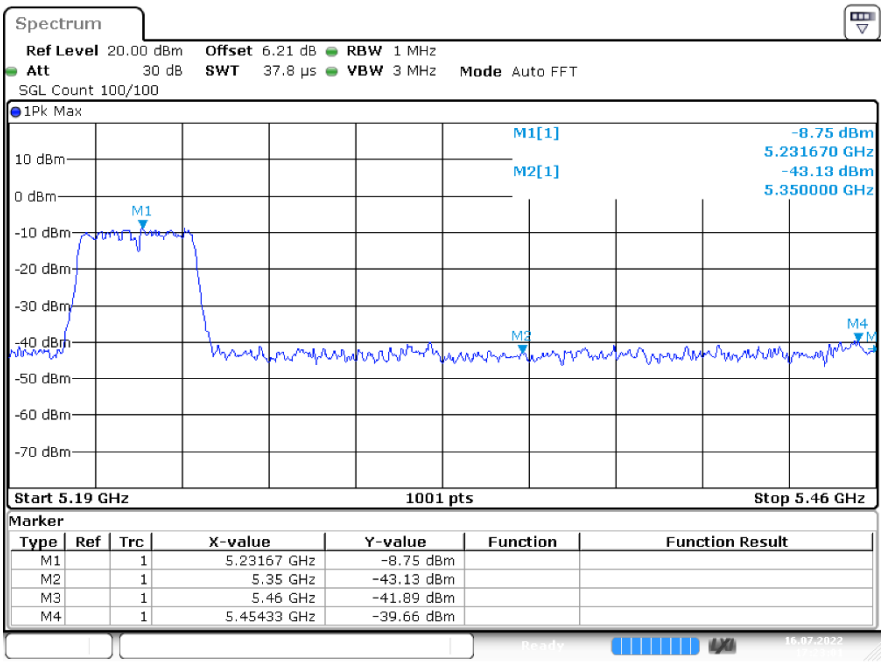
Restrict Bandn40 5190MHz Ant1 Peak



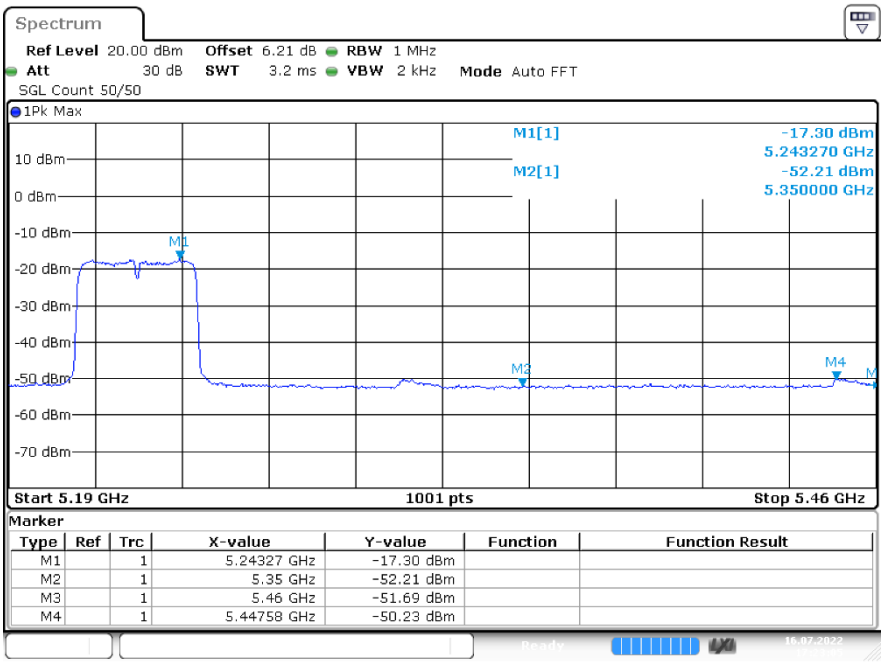
Restrict Band n40 5190MHz Ant1 Average



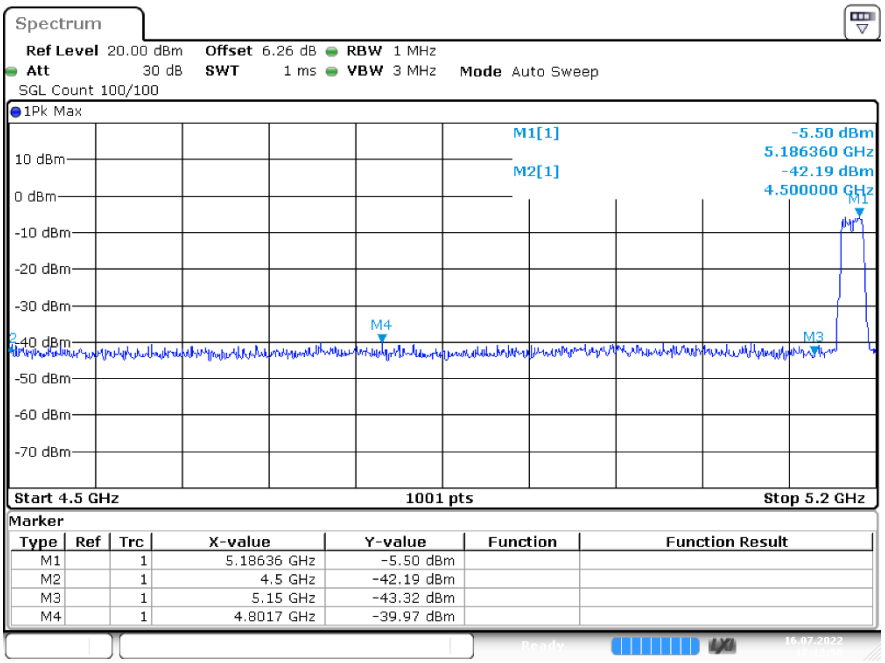
Restrict Bandn40 5230MHz Ant1 Peak



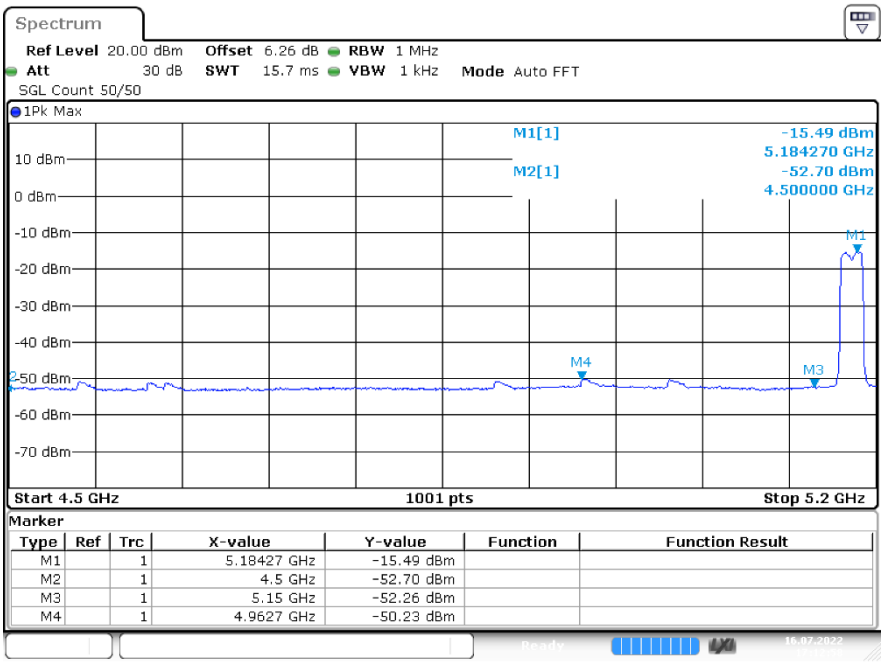
Restrict Band n40 5230MHz Ant1 Average



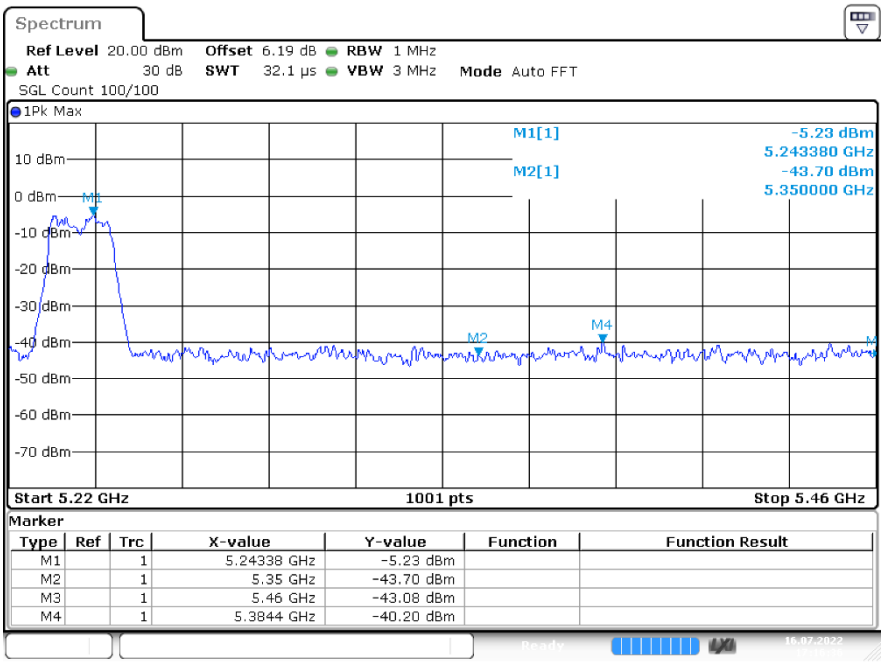
Restrict Bandac20 5180MHz Ant1 Peak



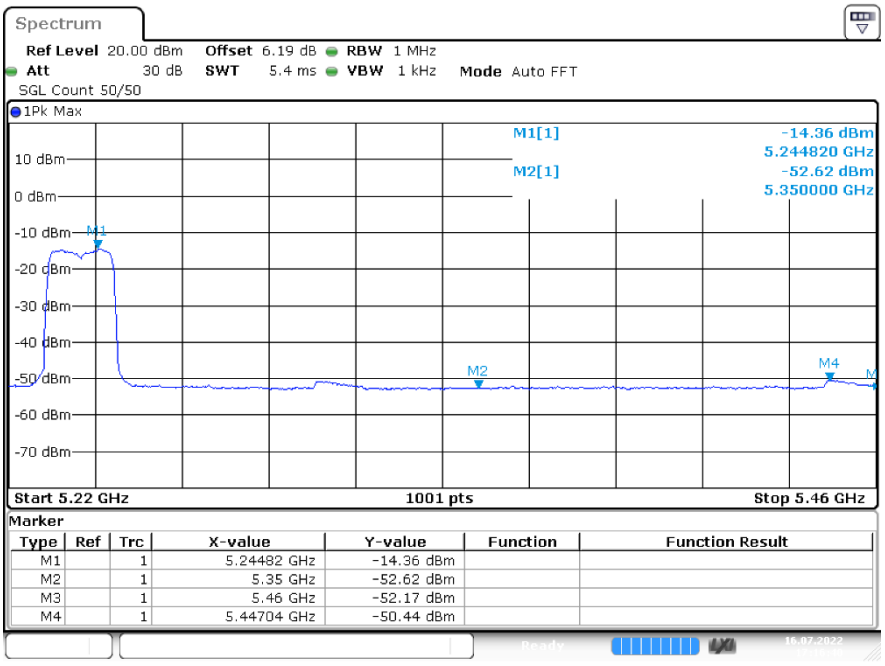
Restrict Band ac20 5180MHz Ant1 Average



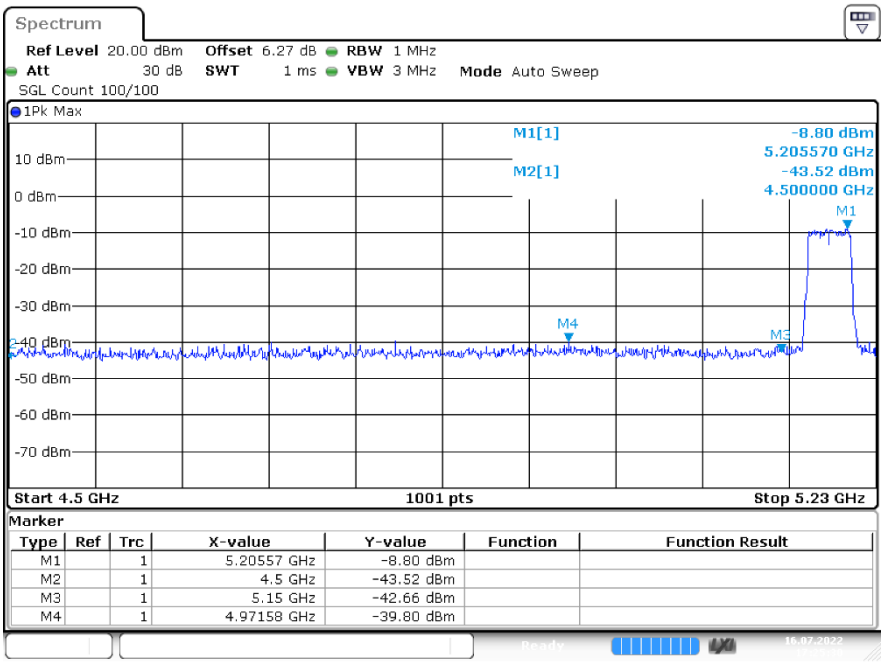
Restrict Bandac20 5240MHz Ant1 Peak



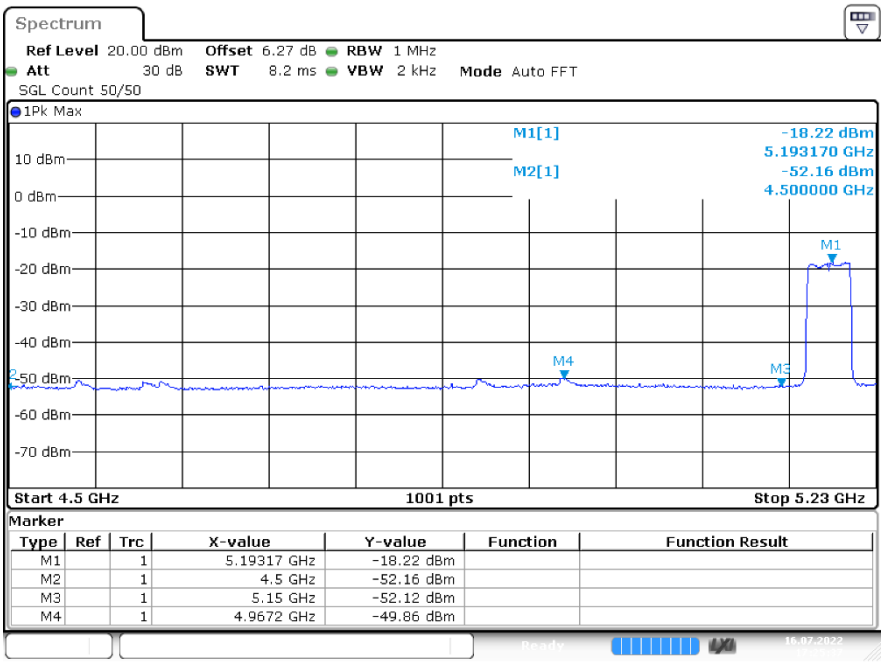
Restrict Band ac20 5240MHz Ant1 Average



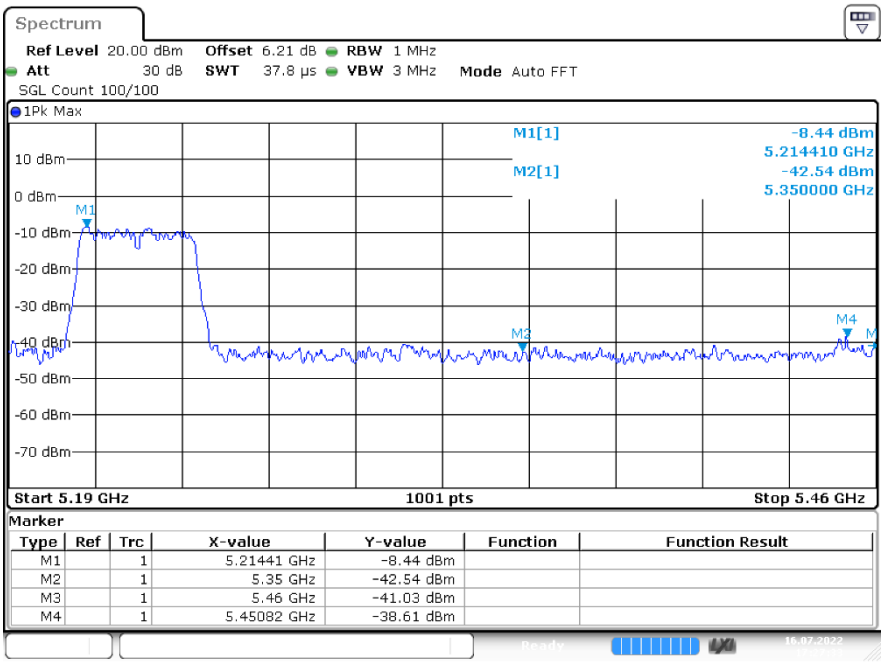
Restrict Bandac40 5190MHz Ant1 Peak



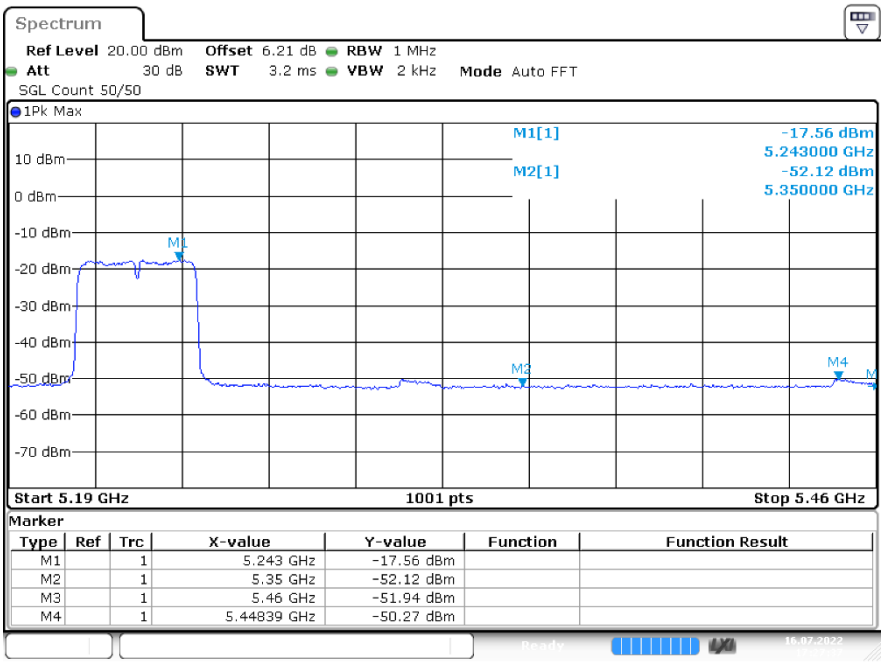
Restrict Band ac40 5190MHz Ant1 Average



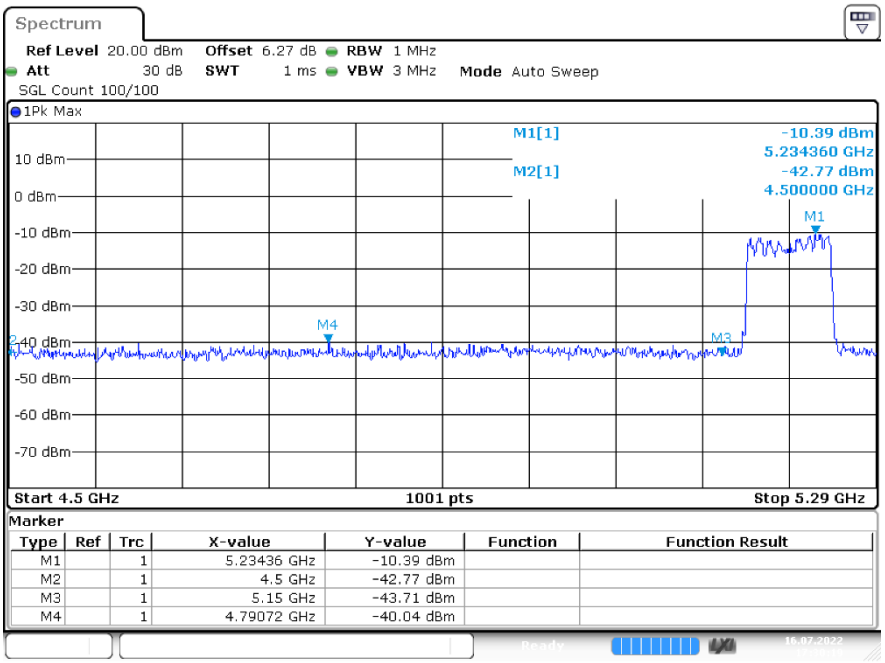
Restrict Bandac40 5230MHz Ant1 Peak



Restrict Band ac40 5230MHz Ant1 Average



Restrict Bandac80 5210MHz Ant1 Peak



Restrict Band ac80 5210MHz Ant1 Average