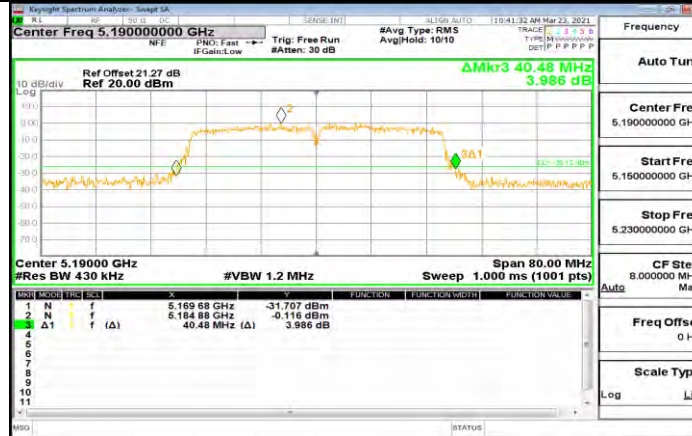




11AC20MIMO Ant1 5825



11AC20MIMO Ant2 5825



11AC40MIMO Ant1 5190









**11.2. Appendix A2: Occupied channel bandwidth****11.2.1. Test Result**

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	16.515	5171.781	5188.296	PASS
	Ant2	5180	16.471	5171.819	5188.290	PASS
	Ant1	5200	16.438	5191.805	5208.243	PASS
	Ant2	5200	16.458	5191.806	5208.264	PASS
	Ant1	5240	16.461	5231.813	5248.274	PASS
	Ant2	5240	16.457	5231.838	5248.295	PASS
	Ant1	5745	16.457	5736.790	5753.247	PASS
	Ant2	5745	16.505	5736.783	5753.288	PASS
	Ant1	5785	16.464	5776.787	5793.251	PASS
	Ant2	5785	16.433	5776.808	5793.241	PASS
	Ant1	5825	16.506	5816.757	5833.263	PASS
	Ant2	5825	16.450	5816.825	5833.275	PASS
11N20MIMO	Ant1	5180	17.655	5171.205	5188.860	PASS
	Ant2	5180	17.658	5171.228	5188.886	PASS
	Ant1	5200	17.631	5191.221	5208.852	PASS
	Ant2	5200	17.651	5191.261	5208.912	PASS
	Ant1	5240	17.666	5231.218	5248.884	PASS
	Ant2	5240	17.608	5231.231	5248.839	PASS
	Ant1	5745	17.682	5736.210	5753.892	PASS
	Ant2	5745	17.619	5736.257	5753.876	PASS
	Ant1	5785	17.622	5776.215	5793.837	PASS
	Ant2	5785	17.656	5776.240	5793.896	PASS
	Ant1	5825	17.637	5816.213	5833.850	PASS
	Ant2	5825	17.649	5816.195	5833.844	PASS
11N40MIMO	Ant1	5190	36.144	5172.052	5208.196	PASS
	Ant2	5190	36.065	5172.053	5208.118	PASS
	Ant1	5230	36.118	5211.999	5248.117	PASS
	Ant2	5230	36.202	5212.050	5248.252	PASS
	Ant1	5755	36.198	5737.008	5773.206	PASS
	Ant2	5755	36.084	5736.984	5773.068	PASS
	Ant1	5795	36.188	5776.945	5813.133	PASS
	Ant2	5795	36.154	5777.018	5813.172	PASS
11AC20MIMO	Ant1	5180	17.667	5171.208	5188.875	PASS
	Ant2	5180	17.649	5171.224	5188.873	PASS
	Ant1	5200	17.659	5191.211	5208.870	PASS
	Ant2	5200	17.649	5191.215	5208.864	PASS
	Ant1	5240	17.637	5231.241	5248.878	PASS
	Ant2	5240	17.642	5231.207	5248.849	PASS
	Ant1	5745	17.644	5736.207	5753.851	PASS
	Ant2	5745	17.644	5736.210	5753.854	PASS
	Ant1	5785	17.727	5776.177	5793.904	PASS
	Ant2	5785	17.653	5776.230	5793.883	PASS
	Ant1	5825	17.645	5816.230	5833.875	PASS
	Ant2	5825	17.627	5816.245	5833.872	PASS
11AC40MIMO	Ant1	5190	36.076	5172.046	5208.122	PASS
	Ant2	5190	36.226	5171.951	5208.177	PASS
	Ant1	5230	36.128	5212.002	5248.130	PASS
	Ant2	5230	36.191	5211.979	5248.170	PASS
	Ant1	5755	36.146	5737.008	5773.154	PASS
	Ant2	5755	36.174	5736.959	5773.133	PASS
	Ant1	5795	36.192	5776.972	5813.164	PASS
	Ant2	5795	36.121	5776.974	5813.095	PASS



11AC80MIMO	Ant1	5210	74.845	5172.888	5247.733	PASS
	Ant2	5210	74.823	5172.719	5247.542	PASS
	Ant1	5775	74.717	5737.752	5812.469	PASS
	Ant2	5775	75.036	5737.706	5812.742	PASS

11.2.2. Test Graphs





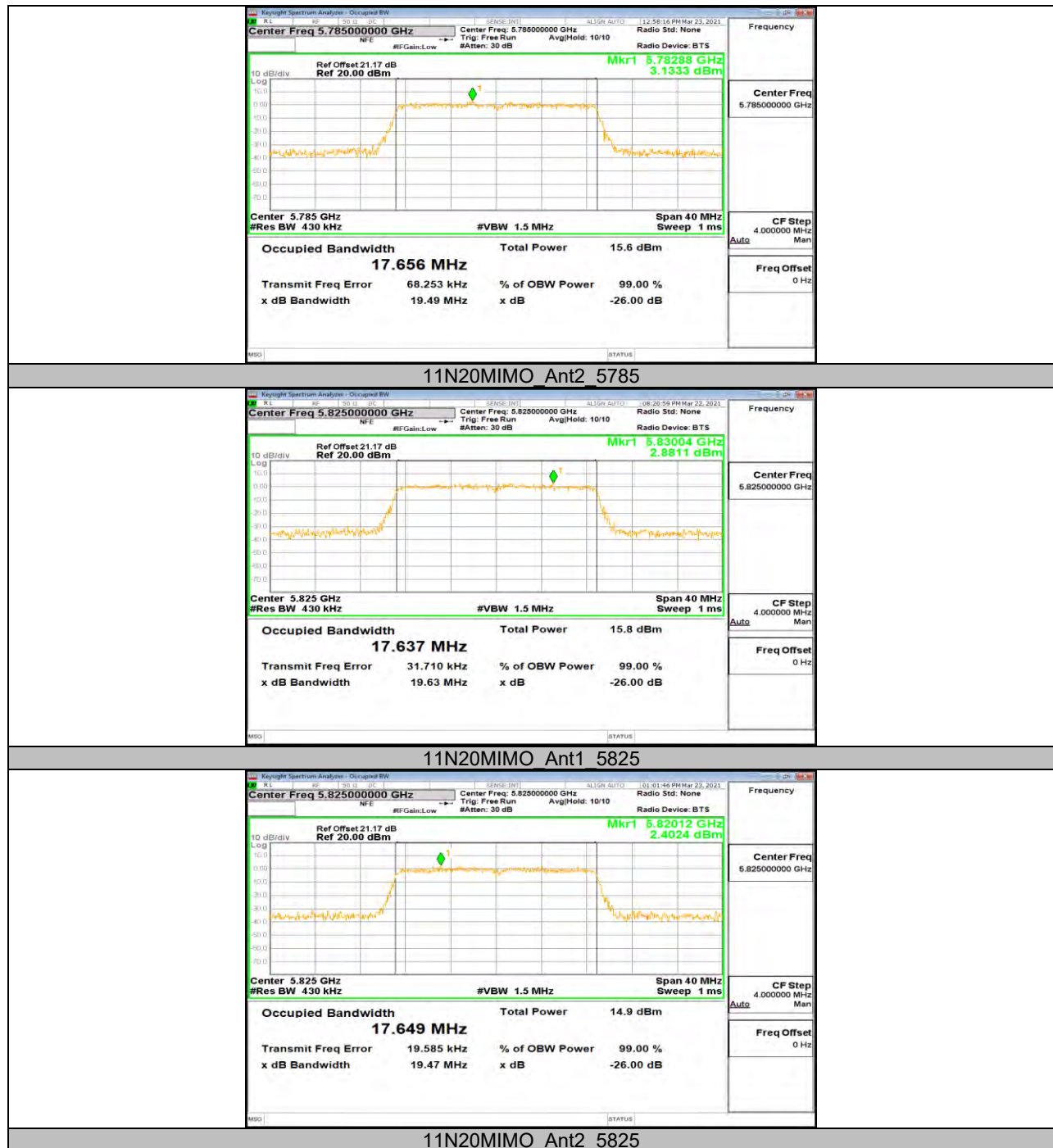


















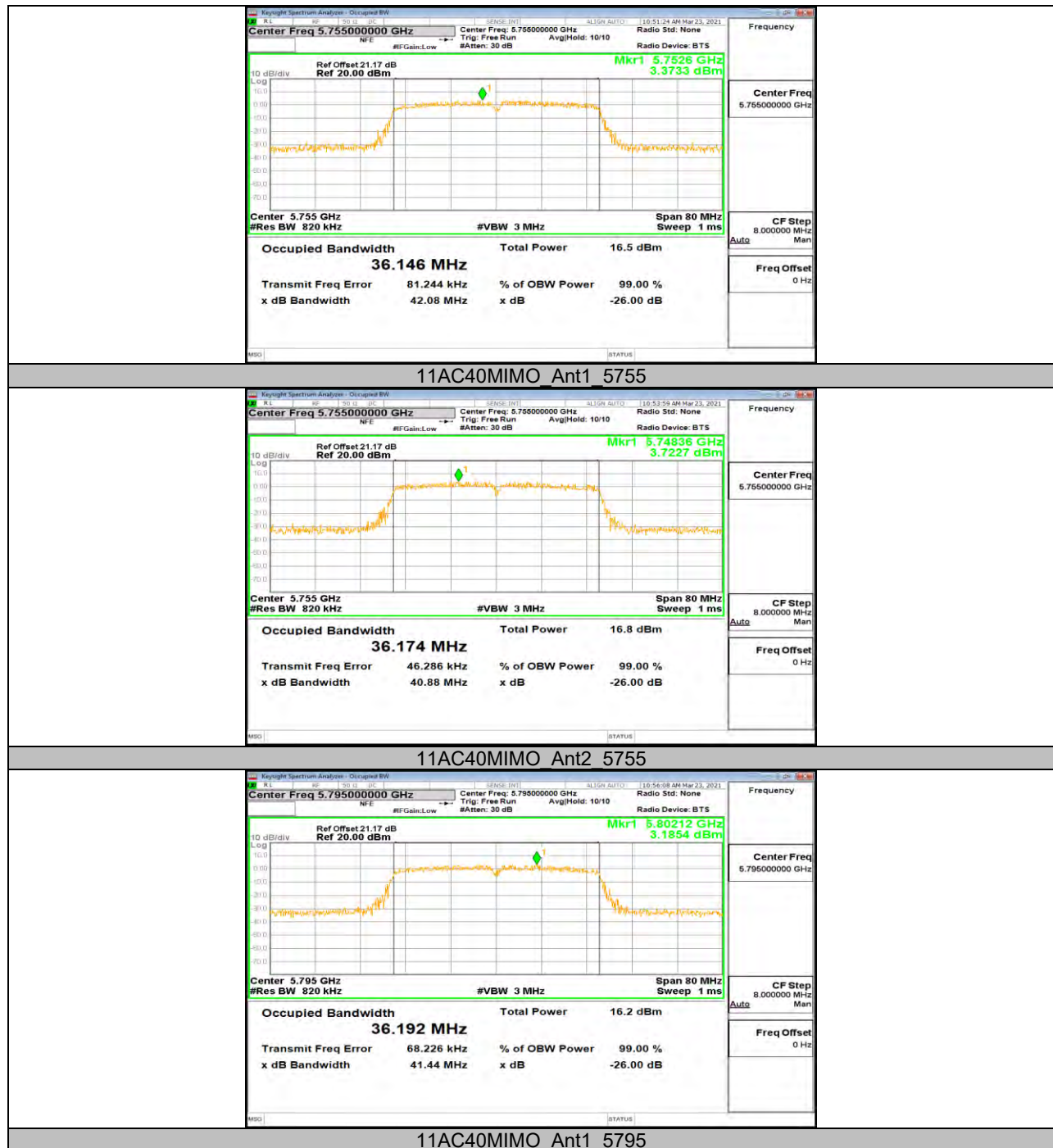




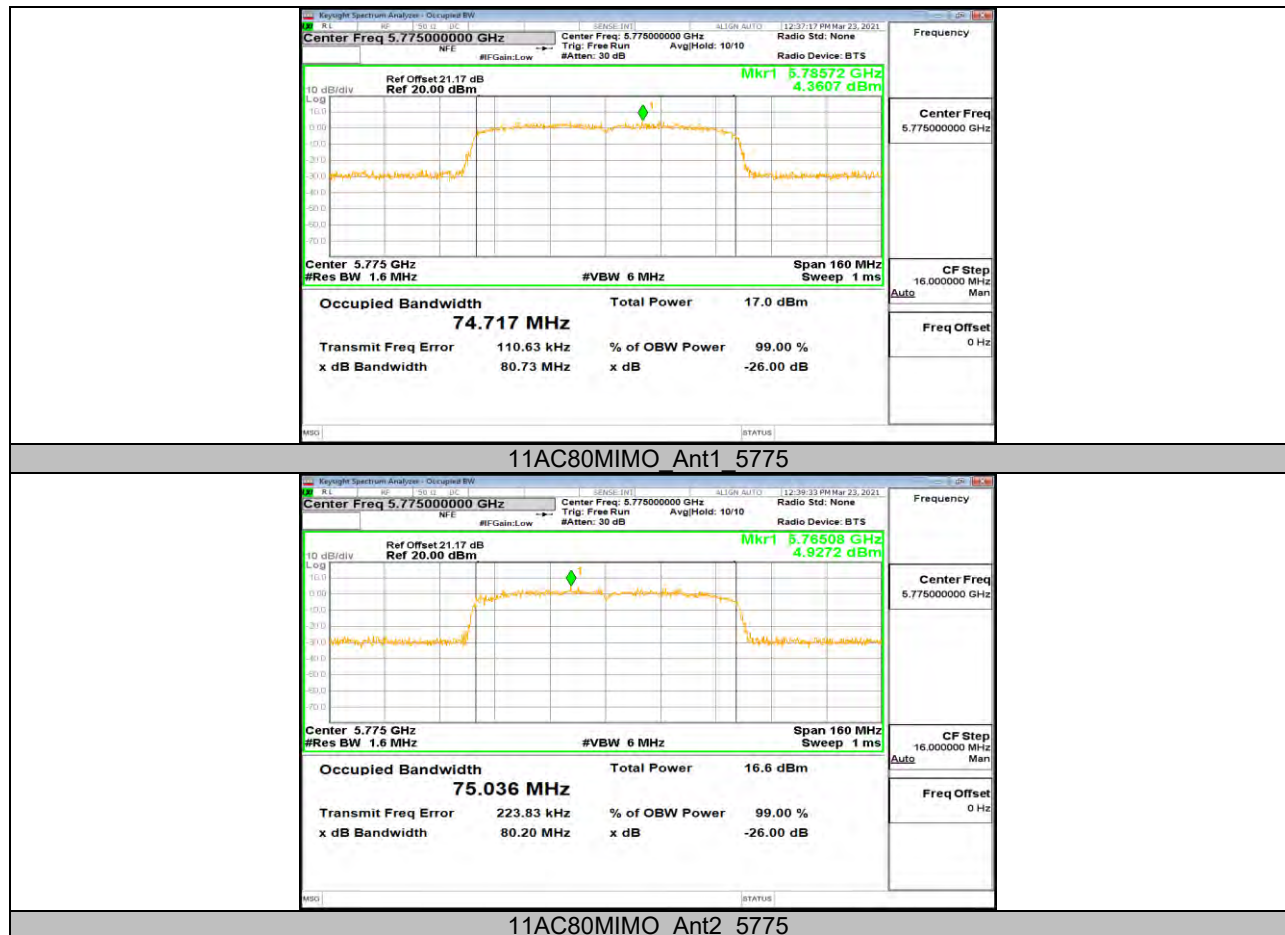












**11.3. Appendix A3: Min emission bandwidth****11.3.1. Test Result**

Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.440	5736.810	5753.250	0.5	PASS
	Ant2	5745	16.500	5736.750	5753.250	0.5	PASS
	Ant1	5785	16.500	5776.750	5793.250	0.5	PASS
	Ant2	5785	16.470	5776.750	5793.220	0.5	PASS
	Ant1	5825	16.440	5816.780	5833.220	0.5	PASS
	Ant2	5825	16.410	5816.810	5833.220	0.5	PASS
11N20MIMO	Ant1	5745	17.760	5736.180	5753.940	0.5	PASS
	Ant2	5745	17.700	5736.180	5753.880	0.5	PASS
	Ant1	5785	17.490	5776.240	5793.730	0.5	PASS
	Ant2	5785	17.700	5776.180	5793.880	0.5	PASS
	Ant1	5825	17.700	5816.180	5833.880	0.5	PASS
	Ant2	5825	17.700	5816.180	5833.880	0.5	PASS
11N40MIMO	Ant1	5755	36.420	5736.820	5773.240	0.5	PASS
	Ant2	5755	36.420	5736.820	5773.240	0.5	PASS
	Ant1	5795	35.040	5777.180	5812.220	0.5	PASS
	Ant2	5795	36.420	5776.820	5813.240	0.5	PASS
11AC20MIMO	Ant1	5745	17.700	5736.180	5753.880	0.5	PASS
	Ant2	5745	17.700	5736.180	5753.880	0.5	PASS
	Ant1	5785	17.790	5776.150	5793.940	0.5	PASS
	Ant2	5785	17.700	5776.180	5793.880	0.5	PASS
	Ant1	5825	17.700	5816.180	5833.880	0.5	PASS
	Ant2	5825	17.670	5816.210	5833.880	0.5	PASS
11AC40MIMO	Ant1	5755	36.420	5736.820	5773.240	0.5	PASS
	Ant2	5755	36.420	5736.820	5773.240	0.5	PASS
	Ant1	5795	36.420	5776.820	5813.240	0.5	PASS
	Ant2	5795	36.360	5776.880	5813.240	0.5	PASS
11AC80MIMO	Ant1	5775	75.240	5737.440	5812.680	0.5	PASS
	Ant2	5775	75.360	5737.320	5812.680	0.5	PASS

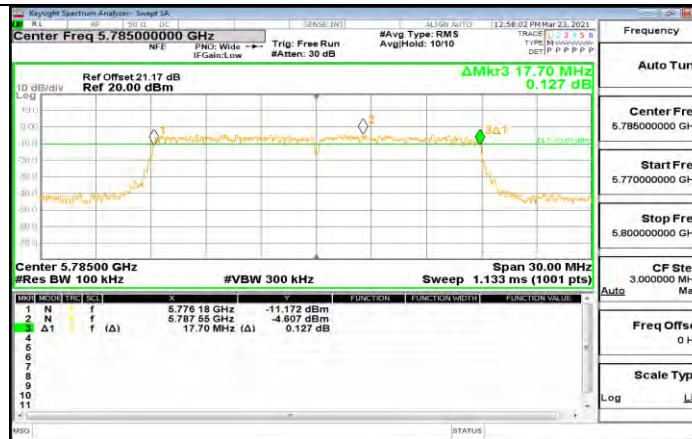


11.3.2. Test Graphs

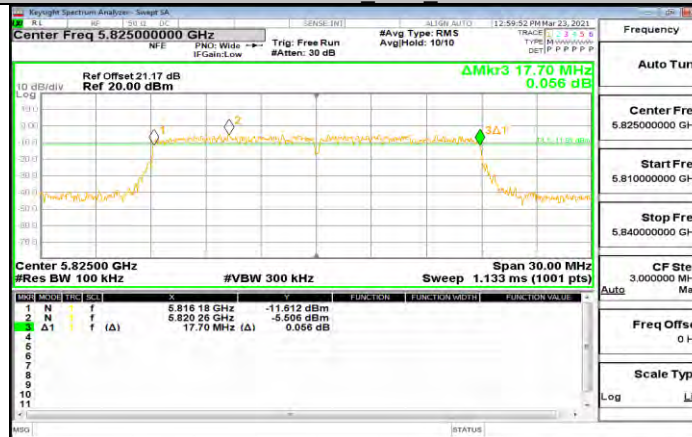








11N20MIMO Ant2 5785



11N20MIMO Ant1 5825



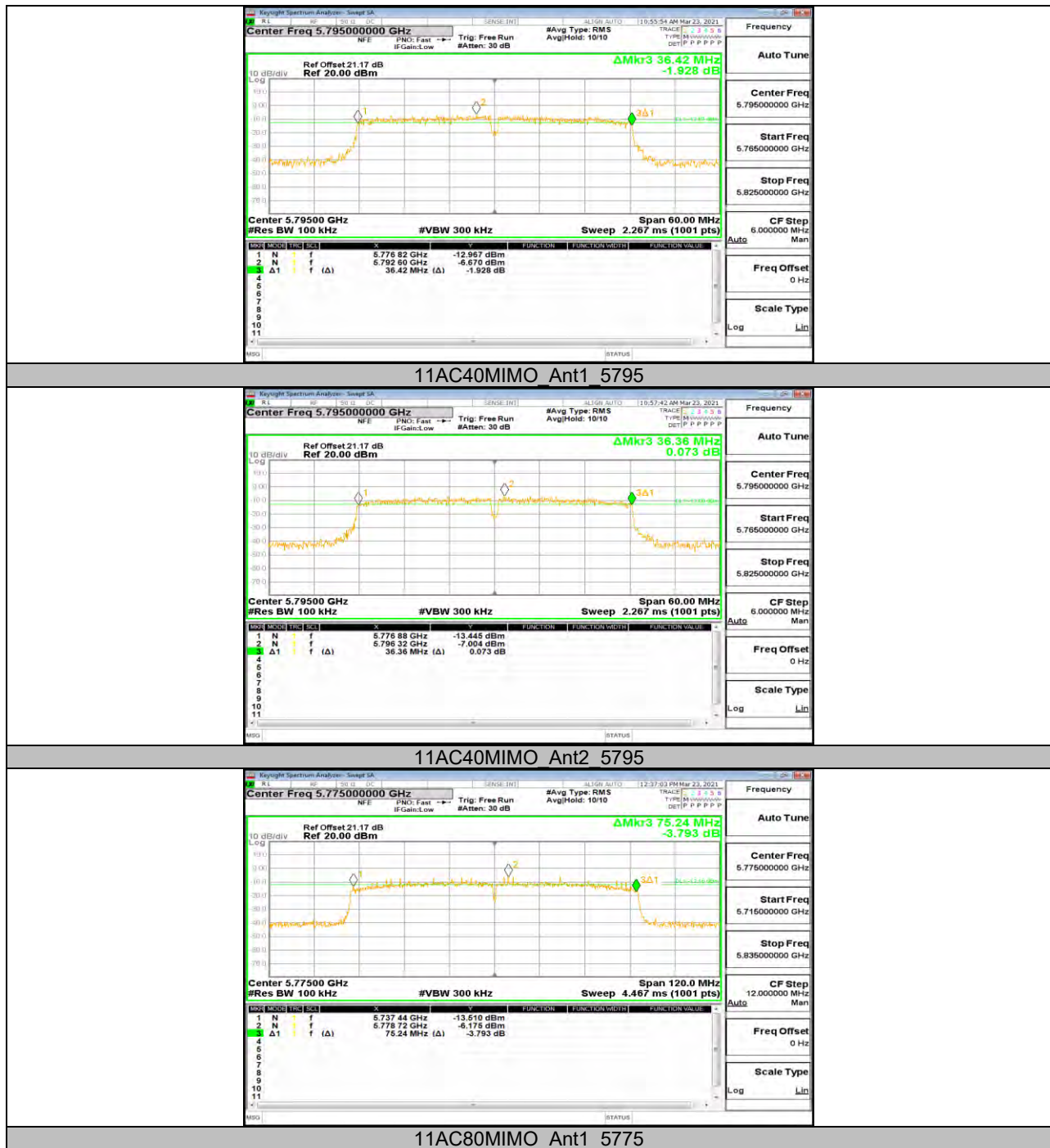
11N20MIMO Ant2 5825















**11.3.3.****11.4. Appendix B: Maximum conducted output power****11.4.1. Test Result**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	10.41	<=30	PASS
	Ant2	5180	10.51	<=30	PASS
	Ant1	5200	10.70	<=30	PASS
	Ant2	5200	10.78	<=30	PASS
	Ant1	5240	11.05	<=30	PASS
	Ant2	5240	10.86	<=30	PASS
	Ant1	5745	10.89	<=30	PASS
	Ant2	5745	11.53	<=30	PASS
	Ant1	5785	11.07	<=30	PASS
	Ant2	5785	11.29	<=30	PASS
	Ant1	5825	10.71	<=30	PASS
	Ant2	5825	10.96	<=30	PASS
11N20MIMO	Ant1	5180	10.35	<=30	PASS
	Ant2	5180	10.54	<=30	PASS
	total	5180	13.46	<=30	PASS
	Ant1	5200	11.20	<=30	PASS
	Ant2	5200	10.56	<=30	PASS
	total	5200	13.90	<=30	PASS
	Ant1	5240	11.37	<=30	PASS
	Ant2	5240	10.78	<=30	PASS
	total	5240	14.10	<=30	PASS
	Ant1	5745	11.52	<=30	PASS
	Ant2	5745	11.67	<=30	PASS
	total	5745	14.61	<=30	PASS
	Ant1	5785	11.25	<=30	PASS
	Ant2	5785	11.18	<=30	PASS
	total	5785	14.23	<=30	PASS
	Ant1	5825	10.63	<=30	PASS
	Ant2	5825	10.49	<=30	PASS
	total	5825	13.57	<=30	PASS
11N40MIMO	Ant1	5190	10.47	<=30	PASS
	Ant2	5190	10.21	<=30	PASS
	total	5190	13.35	<=30	PASS
	Ant1	5230	11.17	<=30	PASS
	Ant2	5230	10.68	<=30	PASS
	total	5230	13.94	<=30	PASS
	Ant1	5755	11.28	<=30	PASS
	Ant2	5755	11.58	<=30	PASS
	total	5755	14.44	<=30	PASS
	Ant1	5795	11.06	<=30	PASS
	Ant2	5795	10.71	<=30	PASS
	total	5795	13.90	<=30	PASS
11AC20MIMO	Ant1	5180	11.07	<=30	PASS
	Ant2	5180	10.49	<=30	PASS
	total	5180	13.80	<=30	PASS
	Ant1	5200	11.54	<=30	PASS
	Ant2	5200	10.72	<=30	PASS
	total	5200	14.16	<=30	PASS
	Ant1	5240	11.46	<=30	PASS
	Ant2	5240	10.86	<=30	PASS
	total	5240	14.18	<=30	PASS
	Ant1	5745	11.53	<=30	PASS



	Ant2	5745	11.66	<=30	PASS
	total	5745	14.61	<=30	PASS
	Ant1	5785	11.14	<=30	PASS
	Ant2	5785	11.08	<=30	PASS
	total	5785	14.12	<=30	PASS
	Ant1	5825	10.80	<=30	PASS
	Ant2	5825	10.52	<=30	PASS
11AC40MIMO	total	5825	13.67	<=30	PASS
	Ant1	5190	11.26	<=30	PASS
	Ant2	5190	10.44	<=30	PASS
	total	5190	13.88	<=30	PASS
	Ant1	5230	10.87	<=30	PASS
	Ant2	5230	10.44	<=30	PASS
	total	5230	13.67	<=30	PASS
	Ant1	5755	11.56	<=30	PASS
	Ant2	5755	11.40	<=30	PASS
	total	5755	14.49	<=30	PASS
	Ant1	5795	11.08	<=30	PASS
	Ant2	5795	10.86	<=30	PASS
11AC80MIMO	total	5795	13.98	<=30	PASS
	Ant1	5210	10.21	<=30	PASS
	Ant2	5210	10.54	<=30	PASS
	total	5210	13.39	<=30	PASS
	Ant1	5775	11.21	<=30	PASS
	Ant2	5775	10.44	<=30	PASS
	total	5775	13.85	<=30	PASS

Note : The Duty Cycle Factor is compensated in the graph.

11.5. Appendix C: Maximum power spectral density

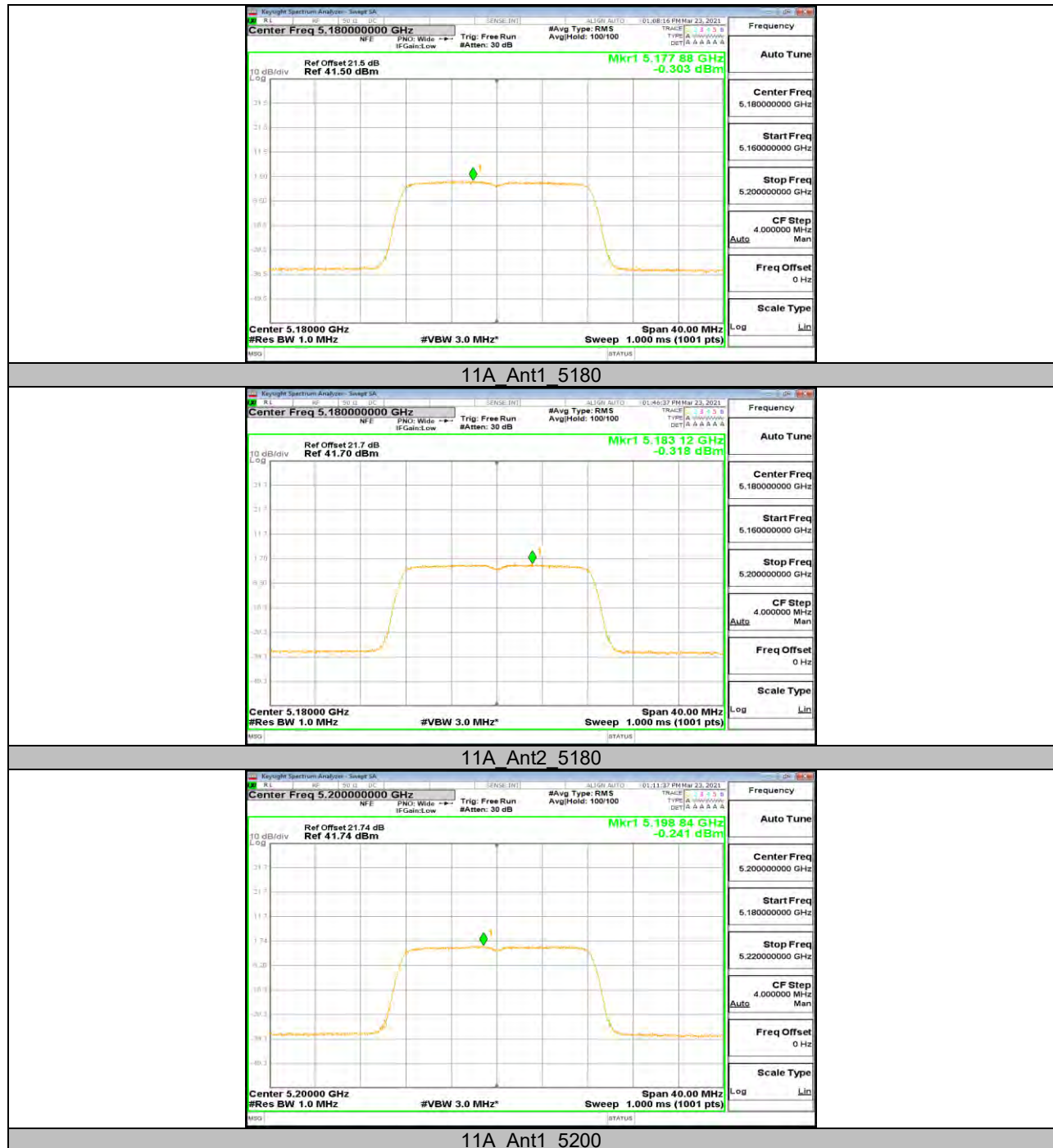
11.5.1. Test Result

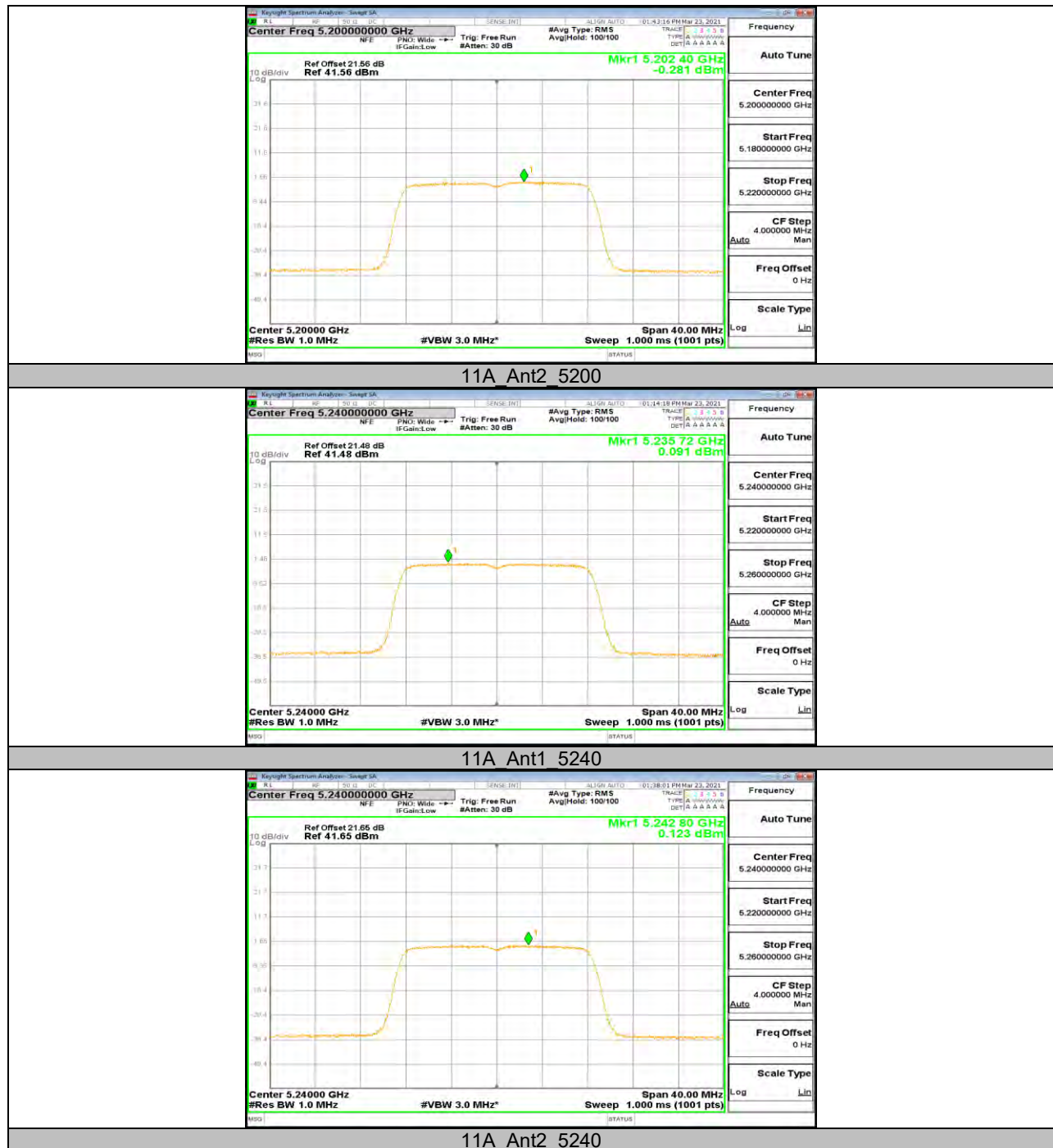
Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-0.3	<=17	PASS
	Ant2	5180	-0.32	<=17	PASS
	Ant1	5200	-0.24	<=17	PASS
	Ant2	5200	-0.28	<=17	PASS
	Ant1	5240	0.09	<=17	PASS
	Ant2	5240	0.12	<=17	PASS
	Ant1	5745	-2.78	<=30	PASS
	Ant2	5745	-2.24	<=30	PASS
	Ant1	5785	-2.65	<=30	PASS
	Ant2	5785	-2.27	<=30	PASS
11AC20MIMO	Ant1	5825	-3.15	<=30	PASS
	Ant2	5825	-3.01	<=30	PASS
	Ant1	5180	-0.26	<=17	PASS
	Ant2	5180	-0.5	<=17	PASS
	total	5180	2.63	<=17	PASS
	Ant1	5200	-0.07	<=17	PASS
	Ant2	5200	-0.17	<=17	PASS
	total	5200	2.89	<=17	PASS
	Ant1	5240	0.22	<=17	PASS
	Ant2	5240	-0.35	<=17	PASS
	total	5240	2.95	<=17	PASS
	Ant1	5745	-2.97	<=30	PASS
	Ant2	5745	-2.42	<=30	PASS
	total	5745	0.32	<=30	PASS
	Ant1	5785	-2.91	<=30	PASS
	Ant2	5785	-2.76	<=30	PASS
	total	5785	0.18	<=30	PASS
	Ant1	5825	-3.53	<=30	PASS
11AC40MIMO	Ant2	5825	-3.62	<=30	PASS
	total	5825	-0.56	<=30	PASS
	Ant1	5190	-3.26	<=17	PASS
	Ant2	5190	-3.69	<=17	PASS
	total	5190	-0.46	<=17	PASS
	Ant1	5230	-2.64	<=17	PASS
	Ant2	5230	-3.36	<=17	PASS
	total	5230	0.03	<=17	PASS
	Ant1	5755	-5.59	<=30	PASS
	Ant2	5755	-4.61	<=30	PASS
11AC80MIMO	total	5755	-2.06	<=30	PASS
	Ant1	5795	-5.7	<=30	PASS
	Ant2	5795	-6.35	<=30	PASS
	total	5795	-3.00	<=30	PASS
	Ant1	5210	-6.34	<=17	PASS
	Ant2	5210	-7.14	<=17	PASS
11AC80MIMO	total	5210	-3.71	<=17	PASS
	Ant1	5775	-8.38	<=30	PASS
	Ant2	5775	-8.87	<=30	PASS
	total	5775	-5.61	<=30	PASS

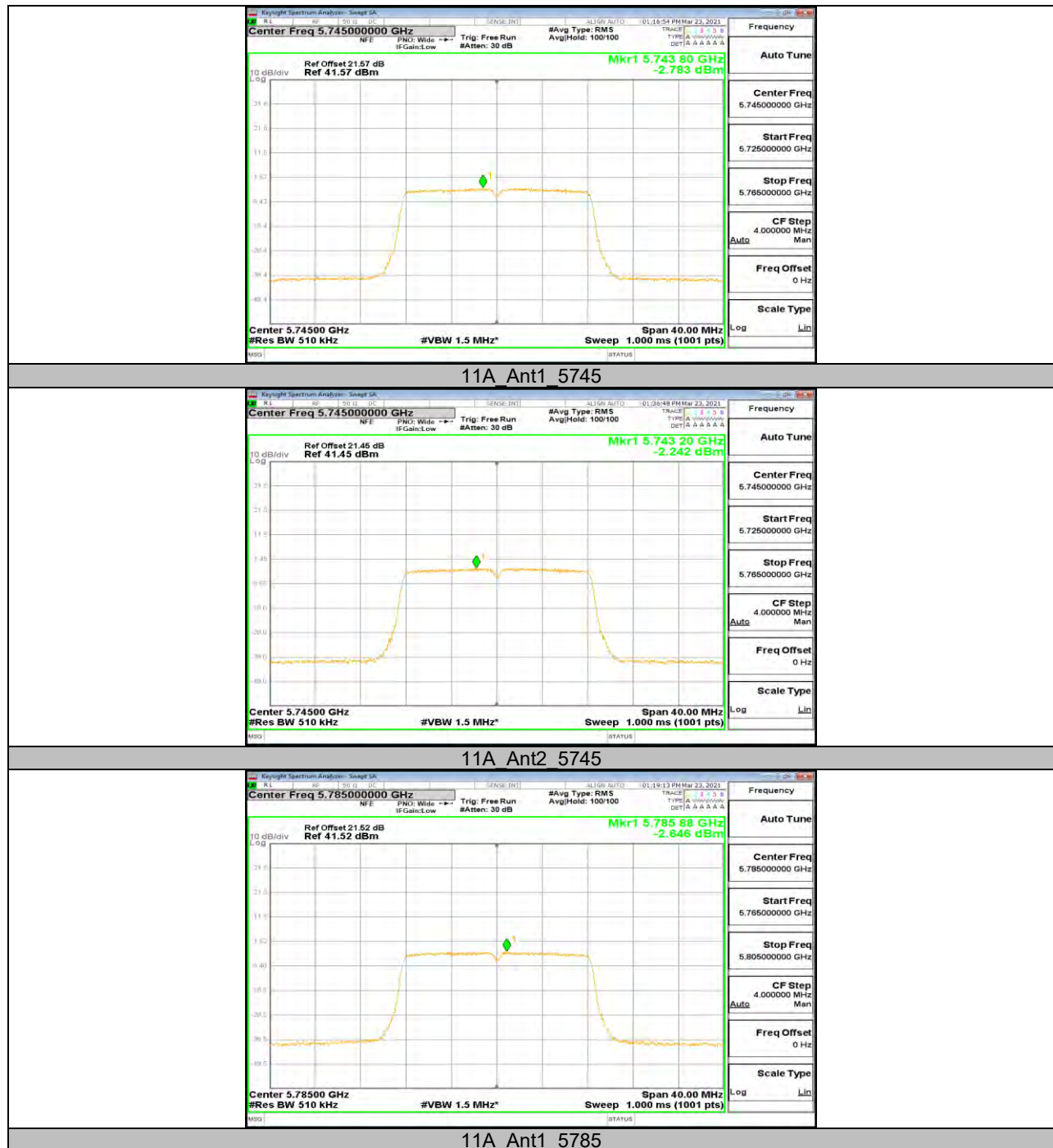
Note : 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

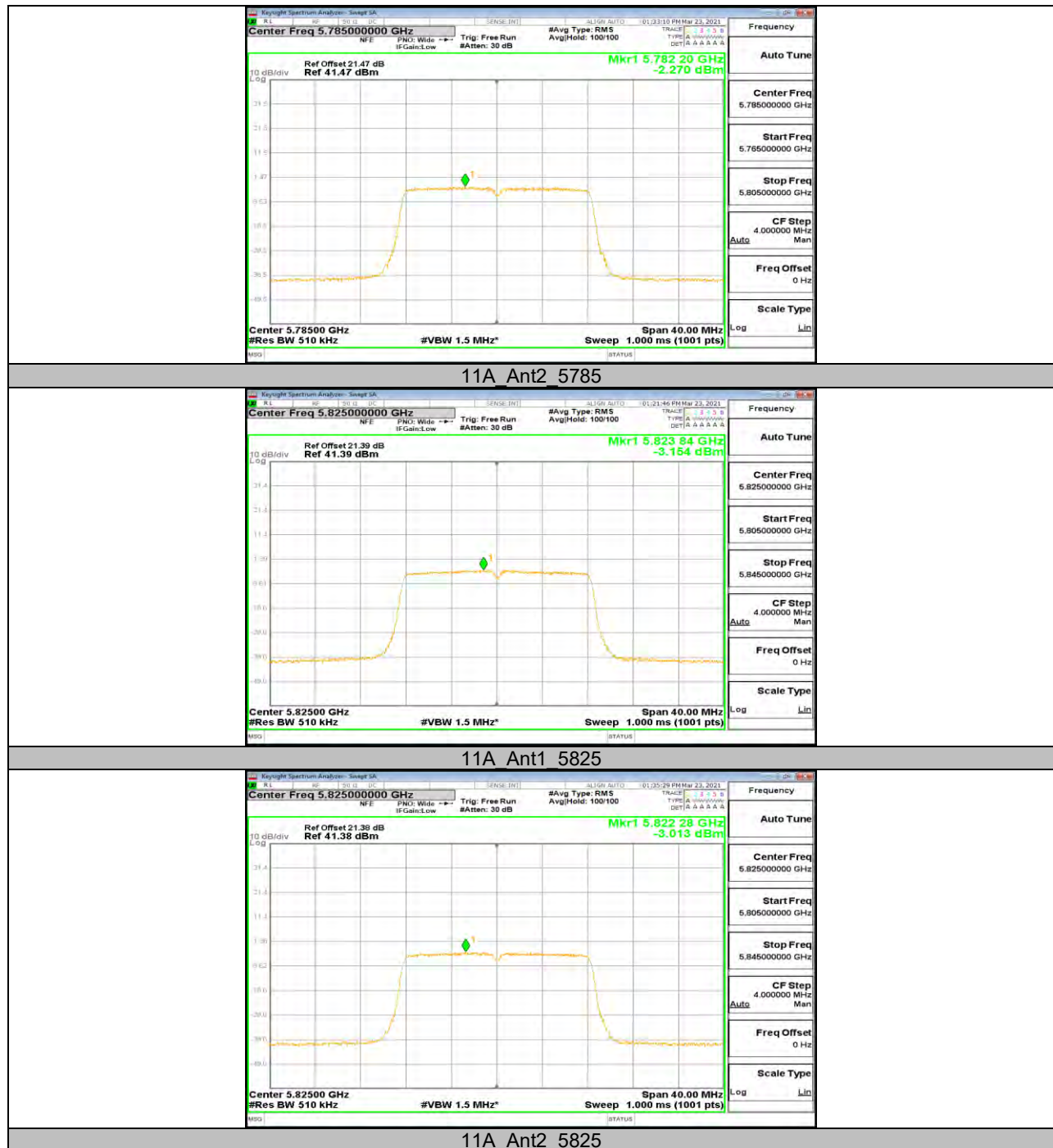
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

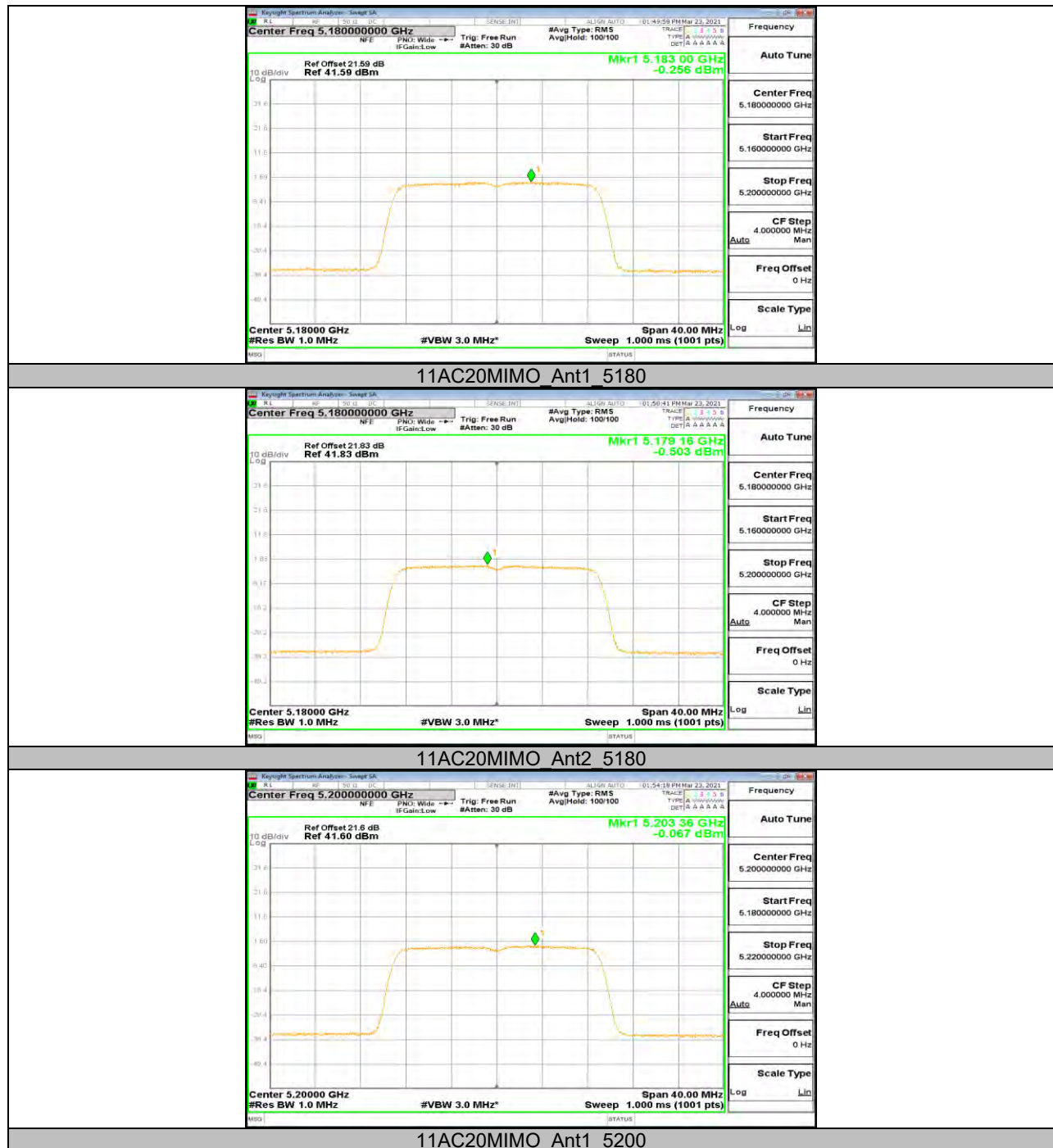
11.5.2. Test Graphs



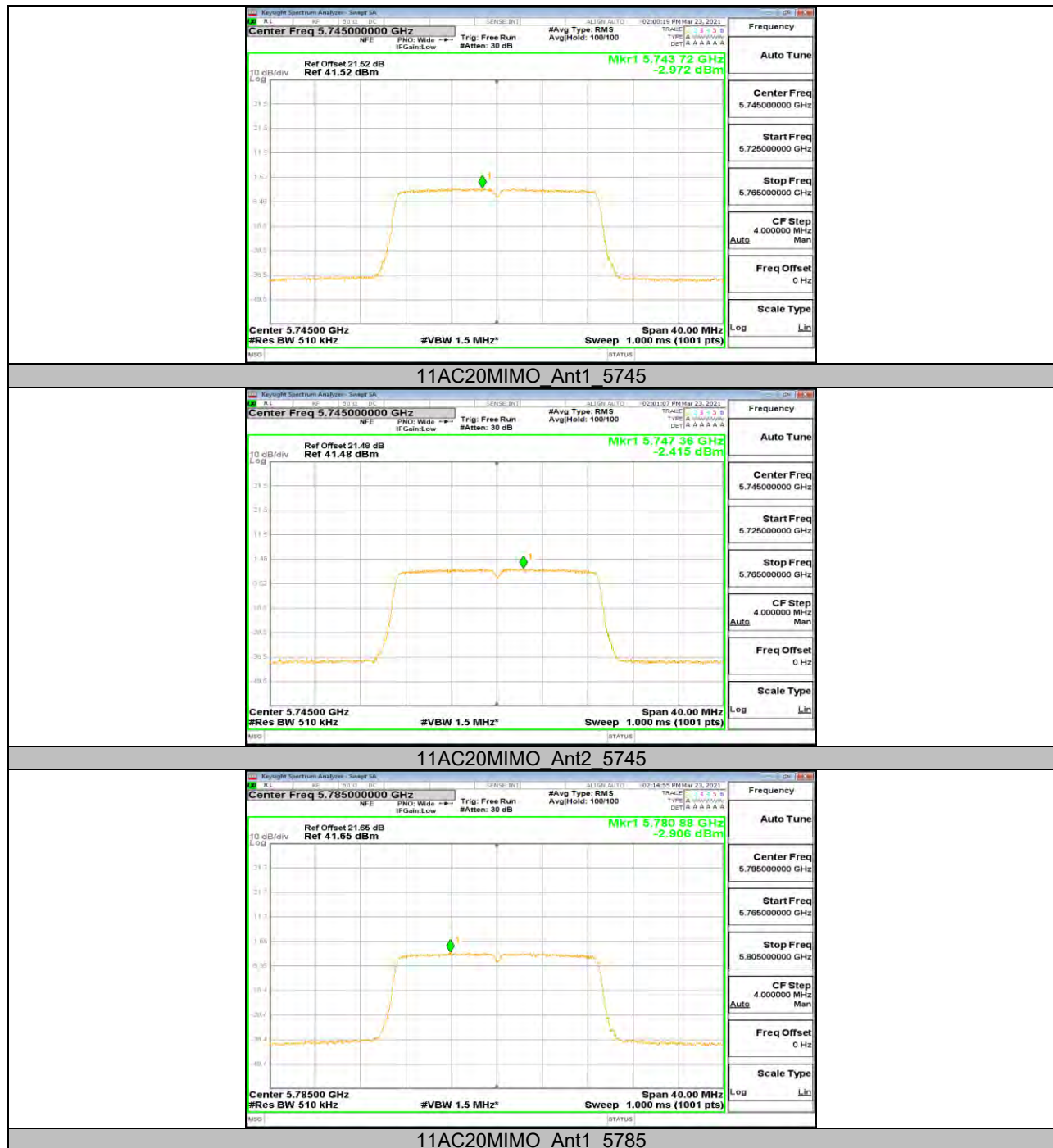


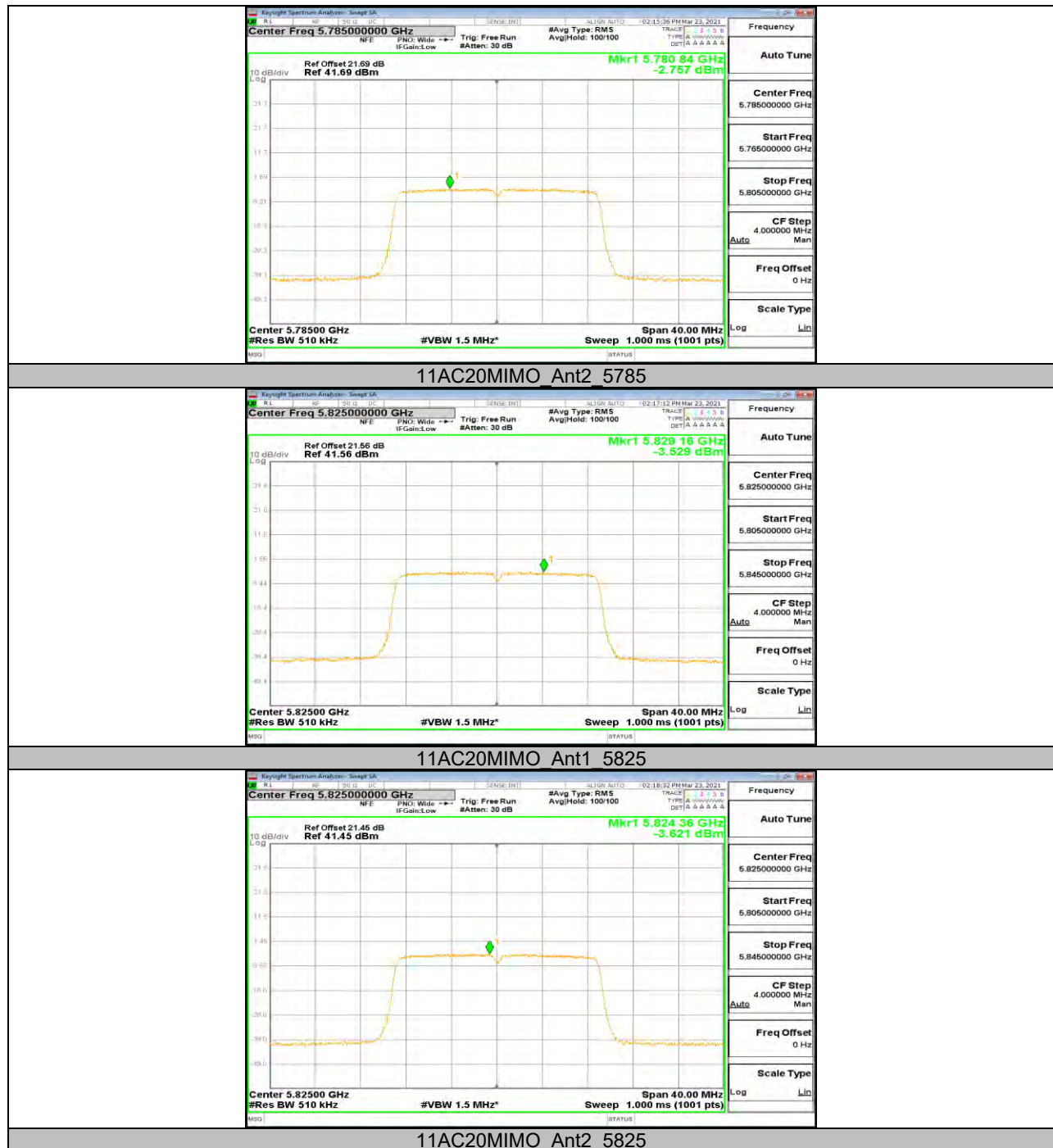


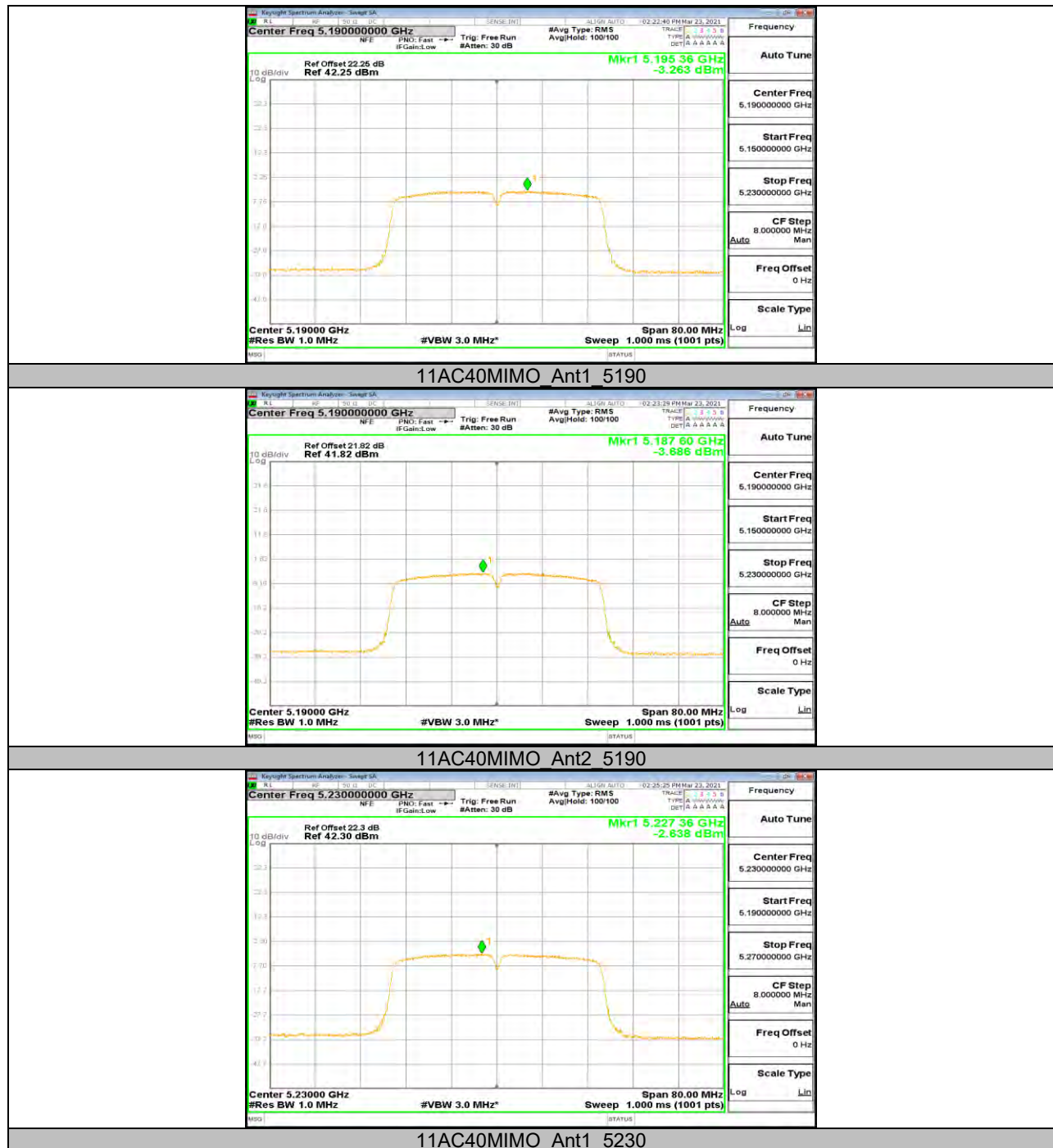


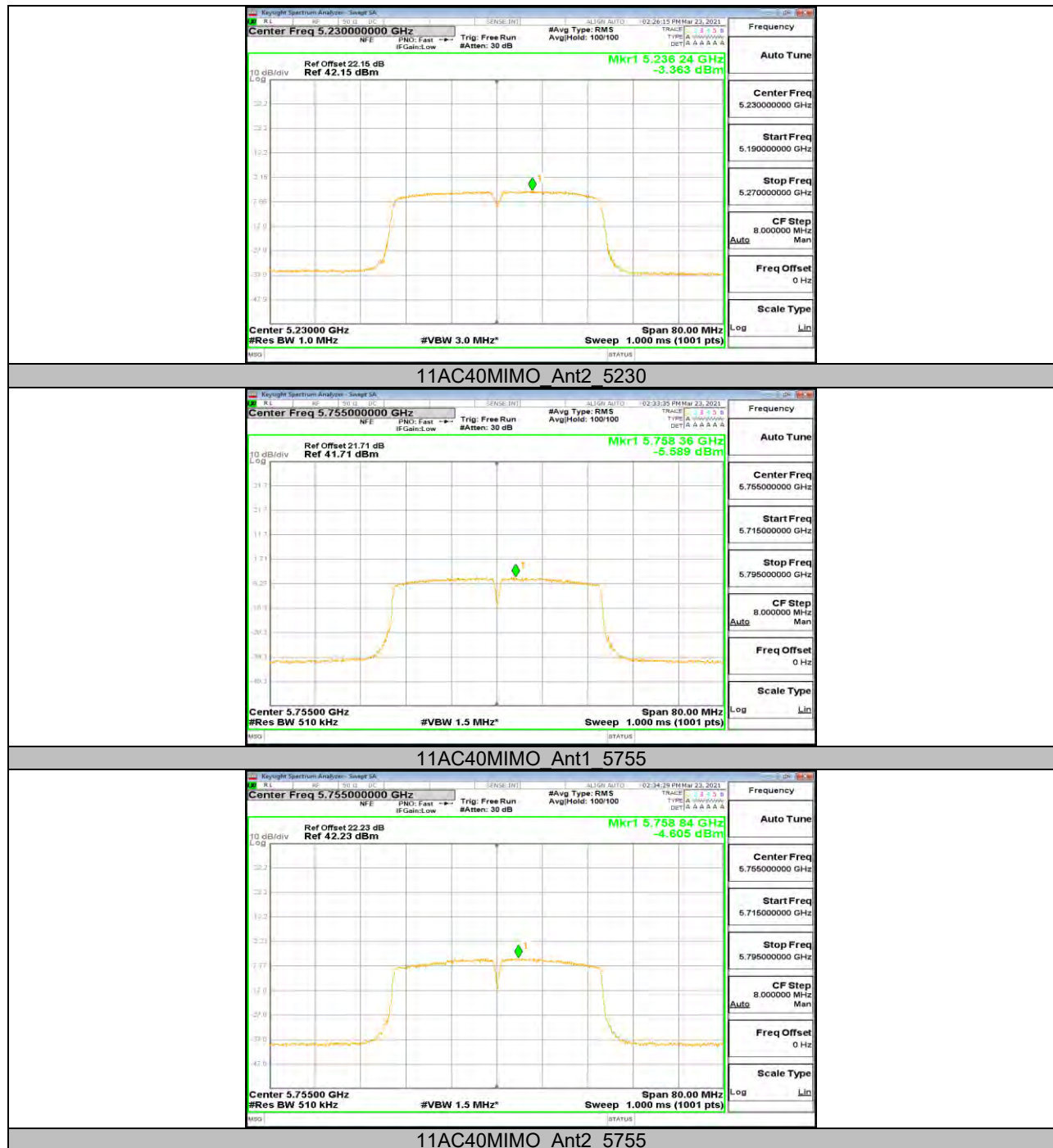


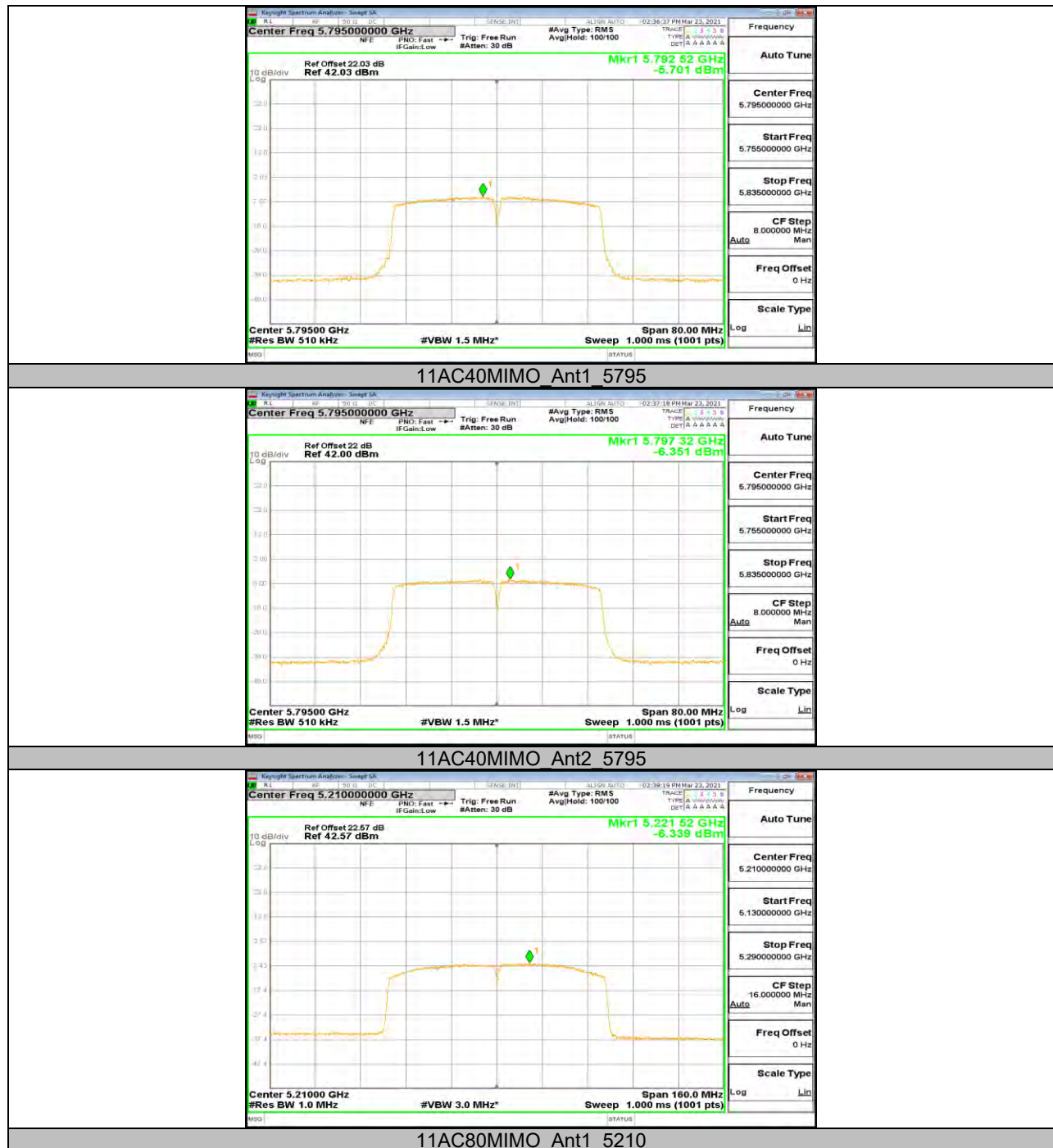














**11.6. Appendix D: Duty Cycle****11.6.1. Test Result**

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	2.06	2.28	0.9035	90.35	0.44	0.49	0.5
11N20MIMO	1.92	2.15	0.8930	89.30	0.49	0.52	1
11N40MIMO	0.94	1.10	0.8545	85.45	0.68	1.06	2
11AC20MIMO	1.93	2.13	0.9061	90.61	0.43	0.52	1
11AC40MIMO	0.95	1.10	0.8636	86.36	0.64	1.05	2
11AC80MIMO	0.46	0.64	0.7188	71.88	1.43	2.17	3

Note:

Duty Cycle Correction Factor= $10\log(1/x)$.

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.



11.6.2. Test Graphs





END OF REPORT