

Appendix C): Maximum Conduct Output Power

Av.Power Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11A	Ant1	5180	11.17	11.31	PASS
11A	Ant1	5200	10.97	11.11	PASS
11A	Ant1	5240	10.21	10.35	PASS
11A	Ant1	5260	11.1	11.25	PASS
11A	Ant1	5280	11.49	11.63	PASS
11A	Ant1	5320	12.59	12.74	PASS
11A	Ant1	5500	12.13	12.27	PASS
11A	Ant1	5580	12.55	12.7	PASS
11A	Ant1	5700	11.51	11.65	PASS
11A	Ant1	5745	11.68	11.82	PASS
11A	Ant1	5785	10.5	10.64	PASS
11A	Ant1	5825	10.09	10.24	PASS
11N20SISO	Ant1	5180	11.4	11.56	PASS
11N20SISO	Ant1	5200	11.31	11.47	PASS
11N20SISO	Ant1	5240	10.56	10.71	PASS
11N20SISO	Ant1	5260	11.16	11.31	PASS
11N20SISO	Ant1	5280	11.73	11.89	PASS
11N20SISO	Ant1	5320	12.76	12.91	PASS
11N20SISO	Ant1	5500	11.66	11.82	PASS
11N20SISO	Ant1	5580	12.18	12.33	PASS
11N20SISO	Ant1	5700	11.08	11.23	PASS
11N20SISO	Ant1	5745	11.9	12.05	PASS
11N20SISO	Ant1	5785	10.47	10.63	PASS
11N20SISO	Ant1	5825	10.08	10.24	PASS
11AC20SISO	Ant1	5180	11.68	11.84	PASS
11AC20SISO	Ant1	5200	11.18	11.34	PASS
11AC20SISO	Ant1	5240	10.61	10.76	PASS
11AC20SISO	Ant1	5260	11.37	11.52	PASS

11AC20SISO	Ant1	5280	11.71	11.86	PASS
11AC20SISO	Ant1	5320	12.91	13.06	PASS
11AC20SISO	Ant1	5500	11.93	12.09	PASS
11AC20SISO	Ant1	5580	12.46	12.61	PASS
11AC20SISO	Ant1	5700	11.4	11.55	PASS
11AC20SISO	Ant1	5745	11.85	12.01	PASS
11AC20SISO	Ant1	5785	11.07	11.22	PASS
11AC20SISO	Ant1	5825	10.03	10.18	PASS
11N40SISO	Ant1	5190	10.55	10.85	PASS
11N40SISO	Ant1	5230	10.19	10.49	PASS
11N40SISO	Ant1	5270	11.04	11.34	PASS
11N40SISO	Ant1	5310	12	12.3	PASS
11N40SISO	Ant1	5510	11.07	11.37	PASS
11N40SISO	Ant1	5550	11.83	12.14	PASS
11N40SISO	Ant1	5670	10.56	10.86	PASS
11N40SISO	Ant1	5755	11.23	11.54	PASS
11N40SISO	Ant1	5795	10.13	10.43	PASS
11AC40SISO	Ant1	5190	10.91	11.2	PASS
11AC40SISO	Ant1	5230	10.18	10.49	PASS
11AC40SISO	Ant1	5270	11.1	11.39	PASS
11AC40SISO	Ant1	5310	11.99	12.28	PASS
11AC40SISO	Ant1	5510	11.19	11.5	PASS
11AC40SISO	Ant1	5550	11.9	12.21	PASS
11AC40SISO	Ant1	5670	10.71	11	PASS
11AC40SISO	Ant1	5755	11.13	11.44	PASS
11AC40SISO	Ant1	5795	10.12	10.41	PASS
11AC80SISO	Ant1	5210	5.55	6.1	PASS
11AC80SISO	Ant1	5290	6.37	6.98	PASS
11AC80SISO	Ant1	5530	6.47	7.05	PASS
11AC80SISO	Ant1	5775	5.58	6.16	PASS

Remark:

1. According KDB789033 D02, If continuous transmission cannot be achieved the 10 log (1/duty cycle) should be add.

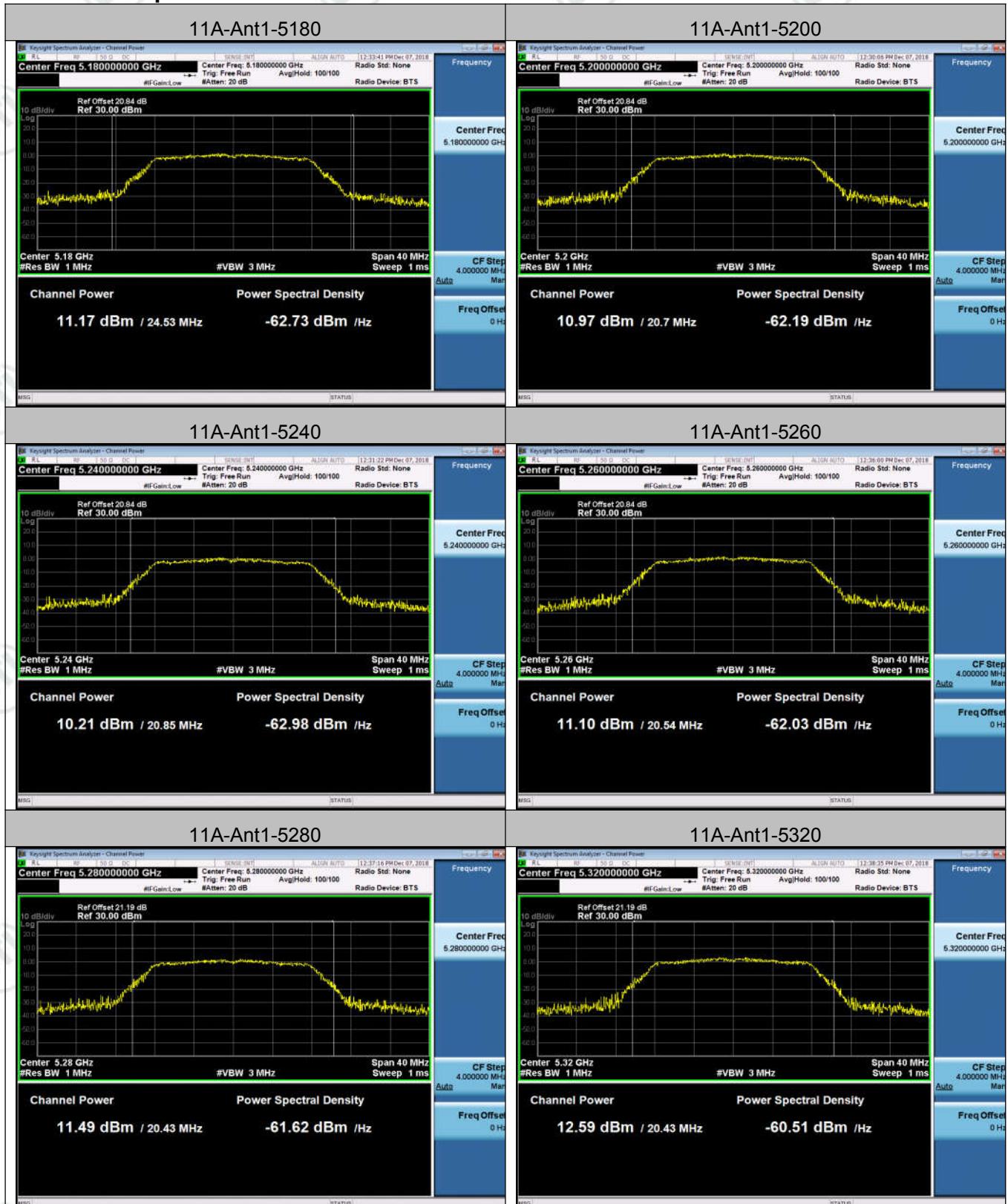
Av.Power=Meas.Level+10 log (1/duty cycle)

E.i.r.p=Av.Power+G, G = antenna gain in dBi.

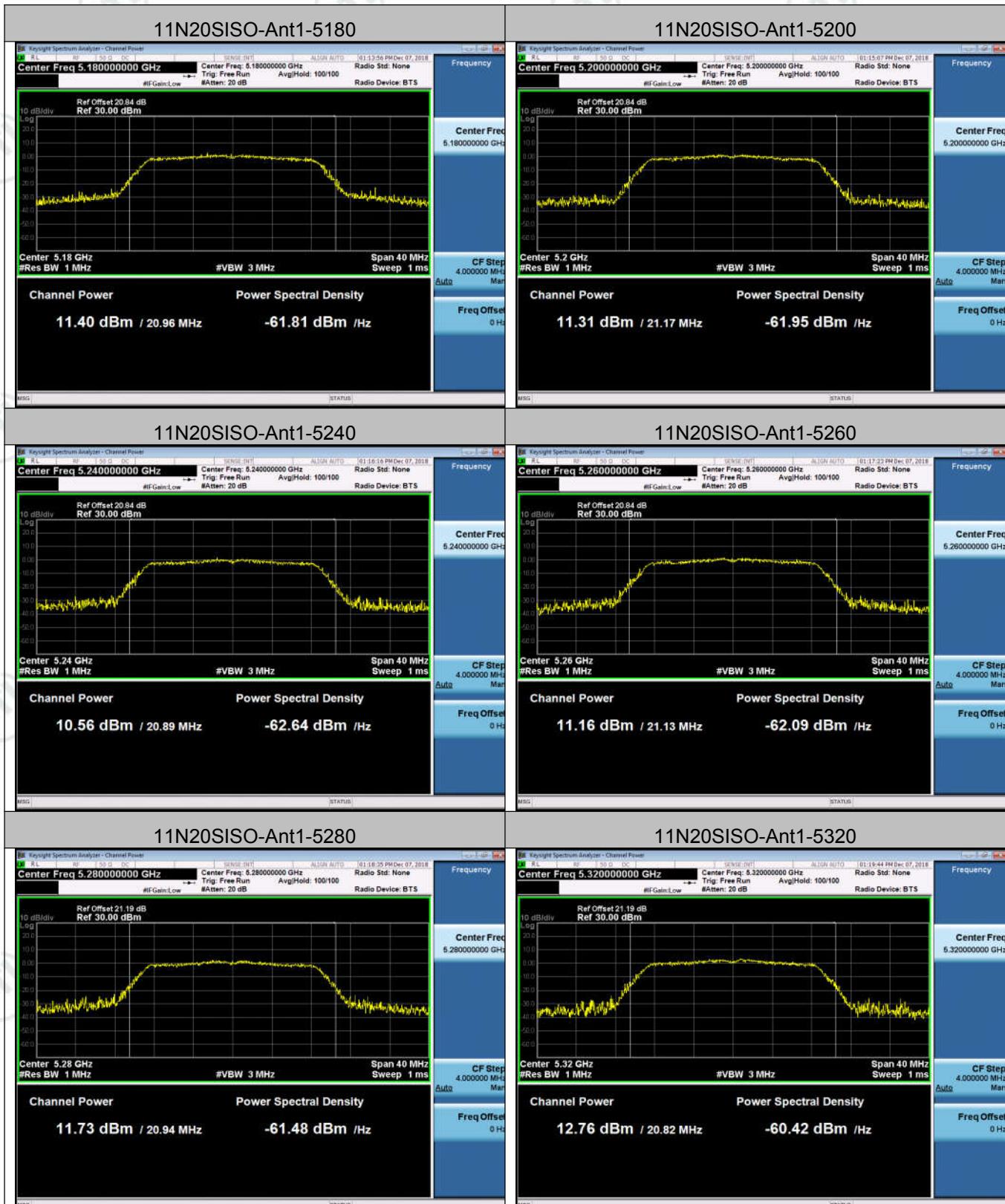
2. Duty Cycle value in report Appendix A, Meas.Level value in report Appendix C,

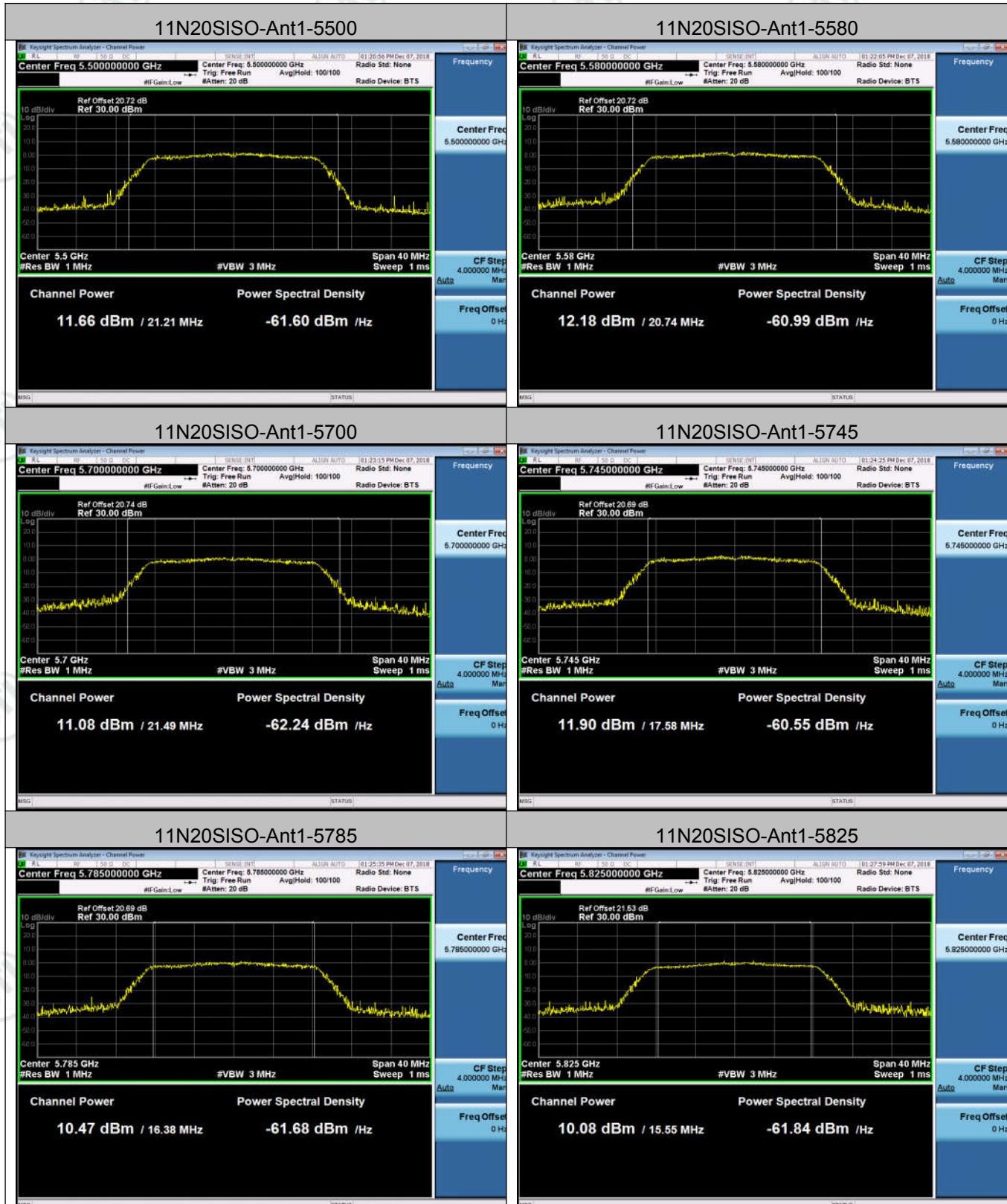
For band 1, MCS0 mode, 802.11a channel 36:5180MHz, Duty Cycle value is 96.83% = 0.9683, Meas.Level value is 11.17dBm, Av.Power=11.17+10 log (1/0.9683) = 11.31dBm. E.i.r.p=11.31+2=13.31dBm.

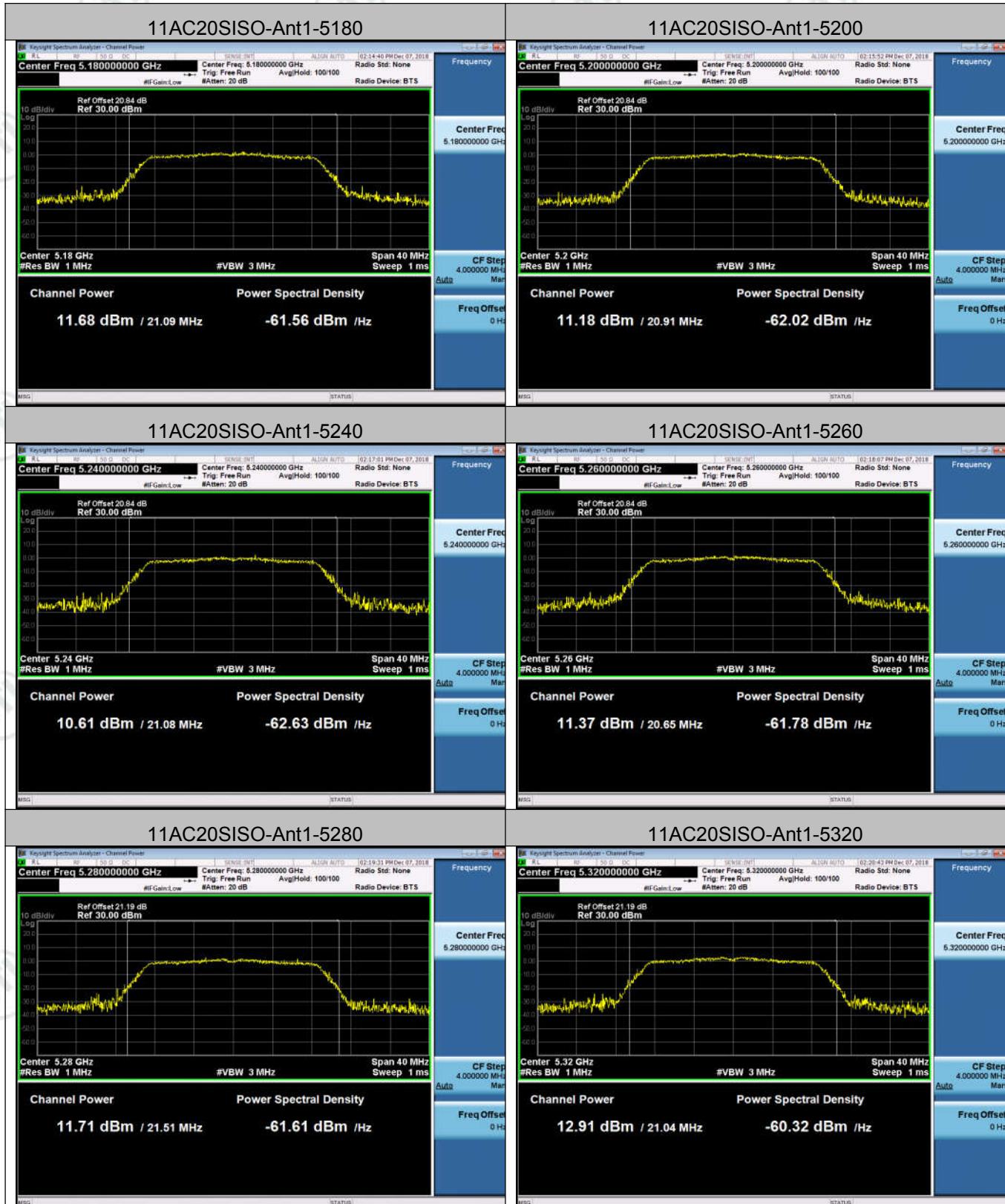
Test Graph

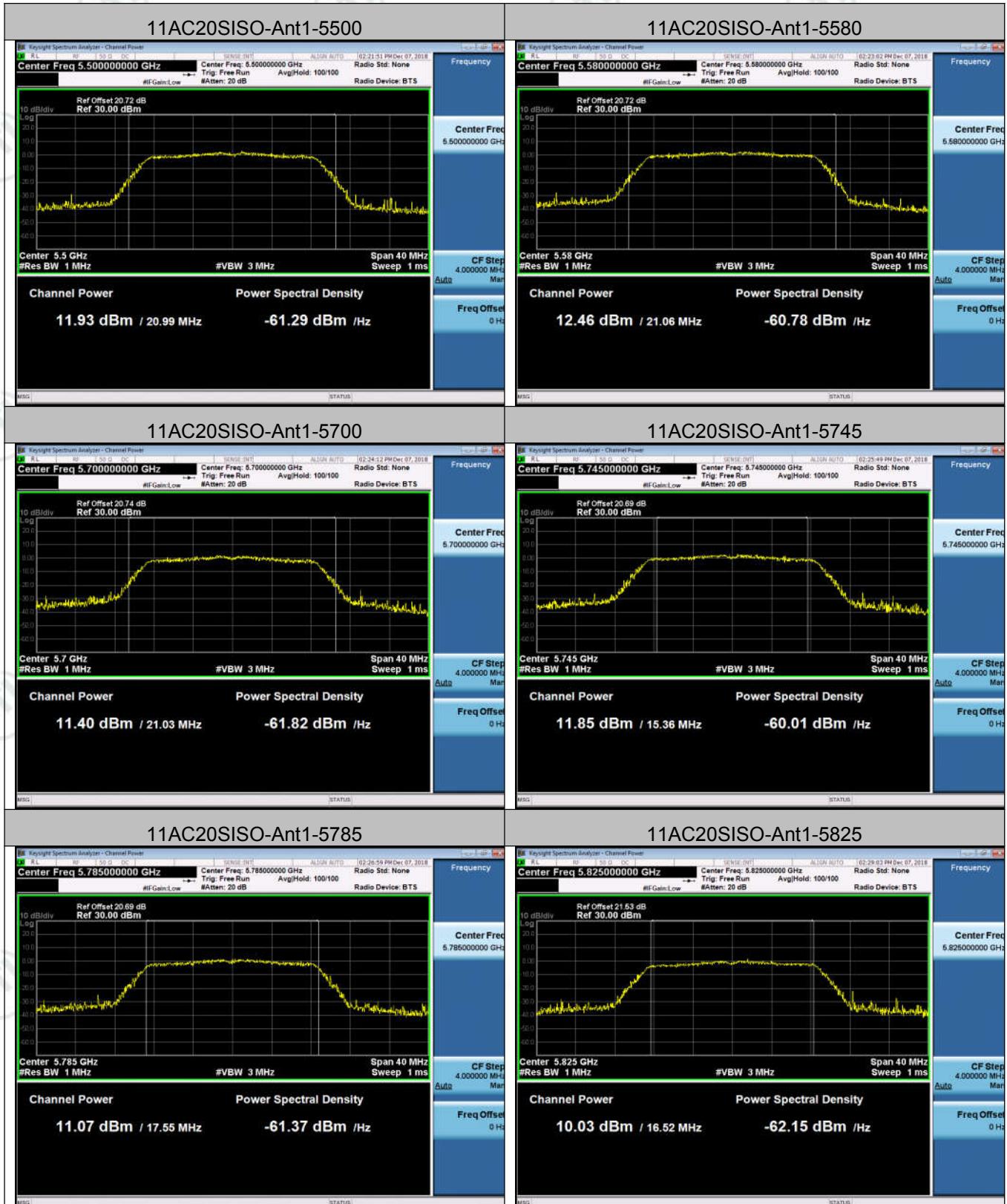


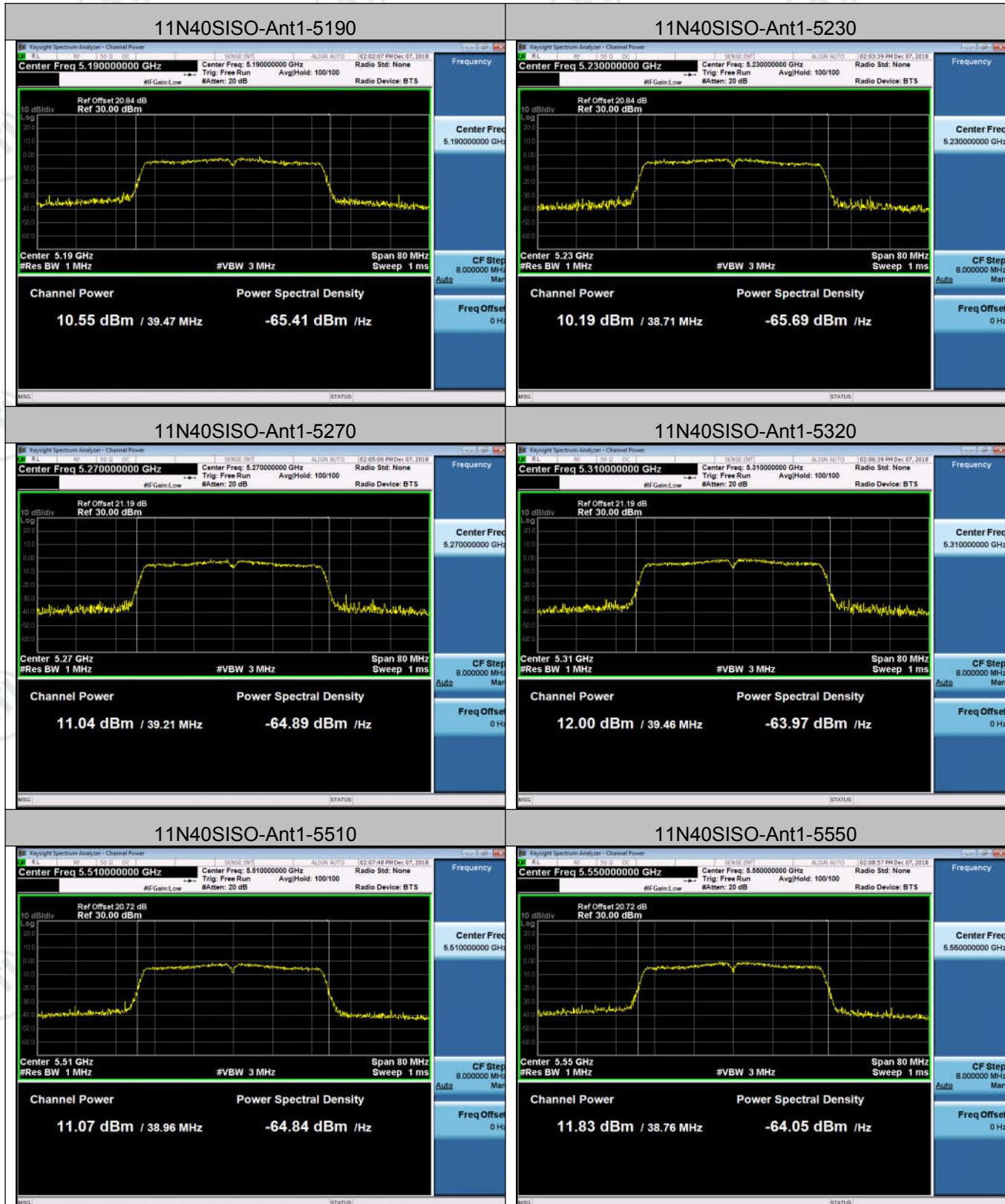


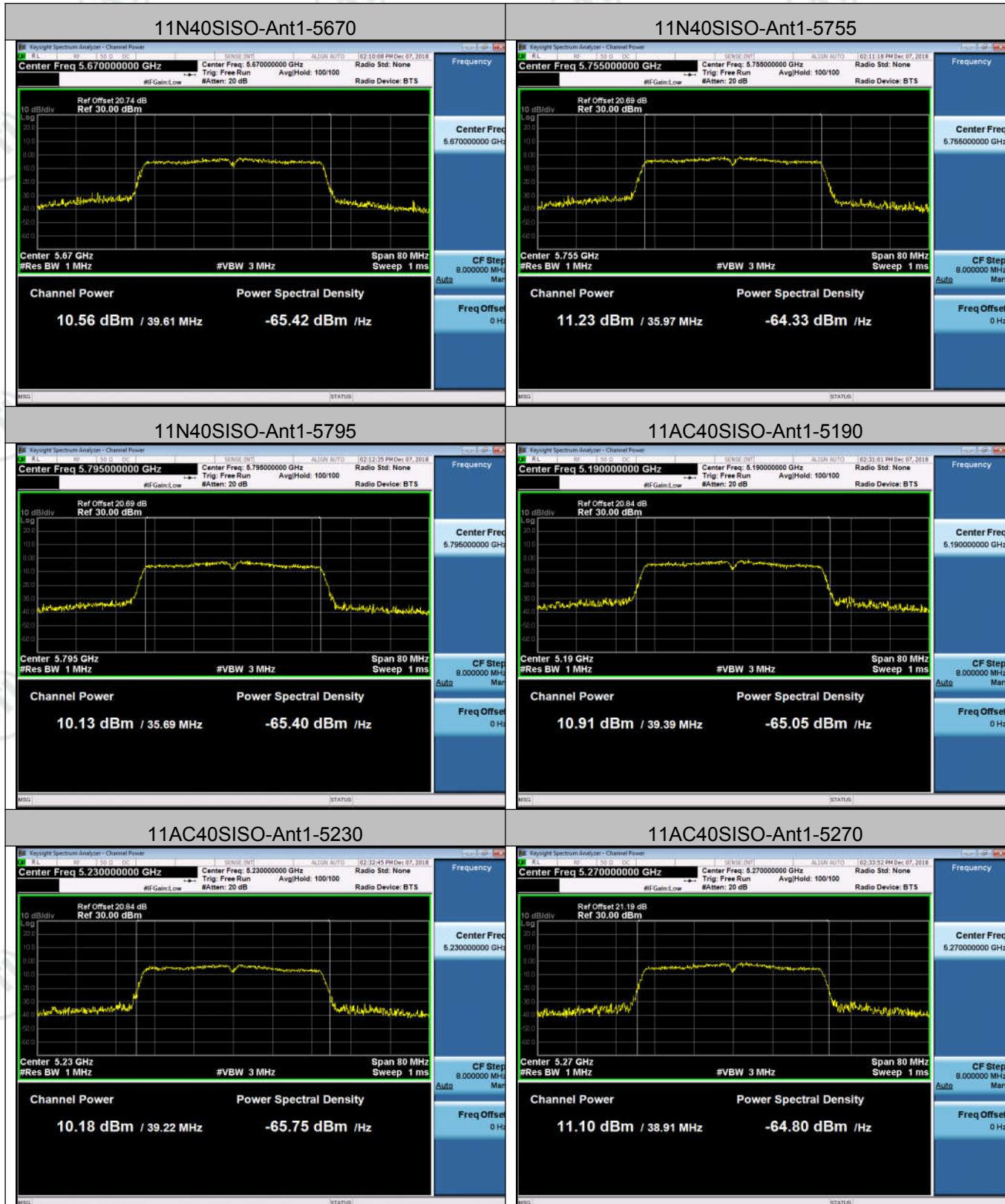


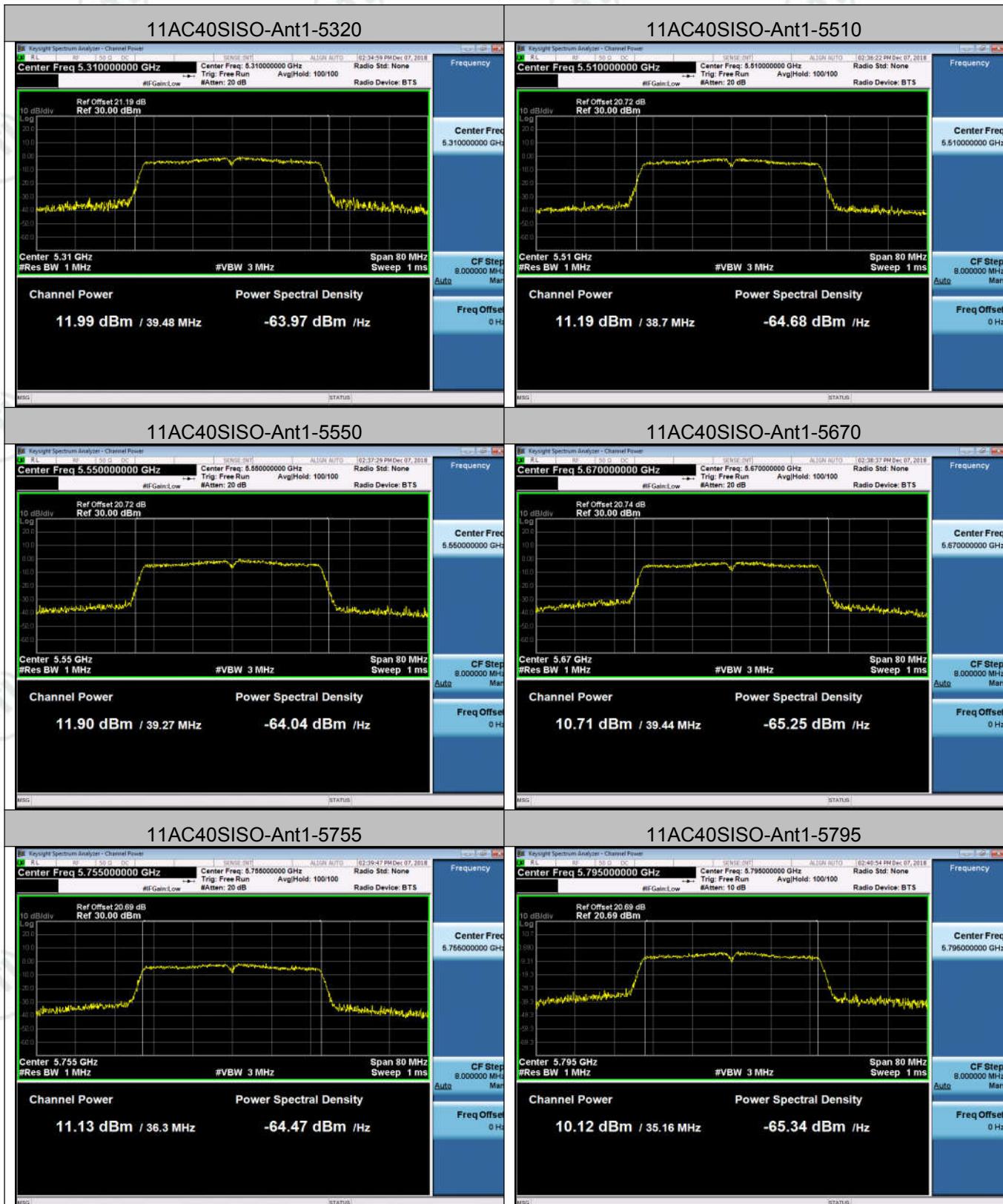


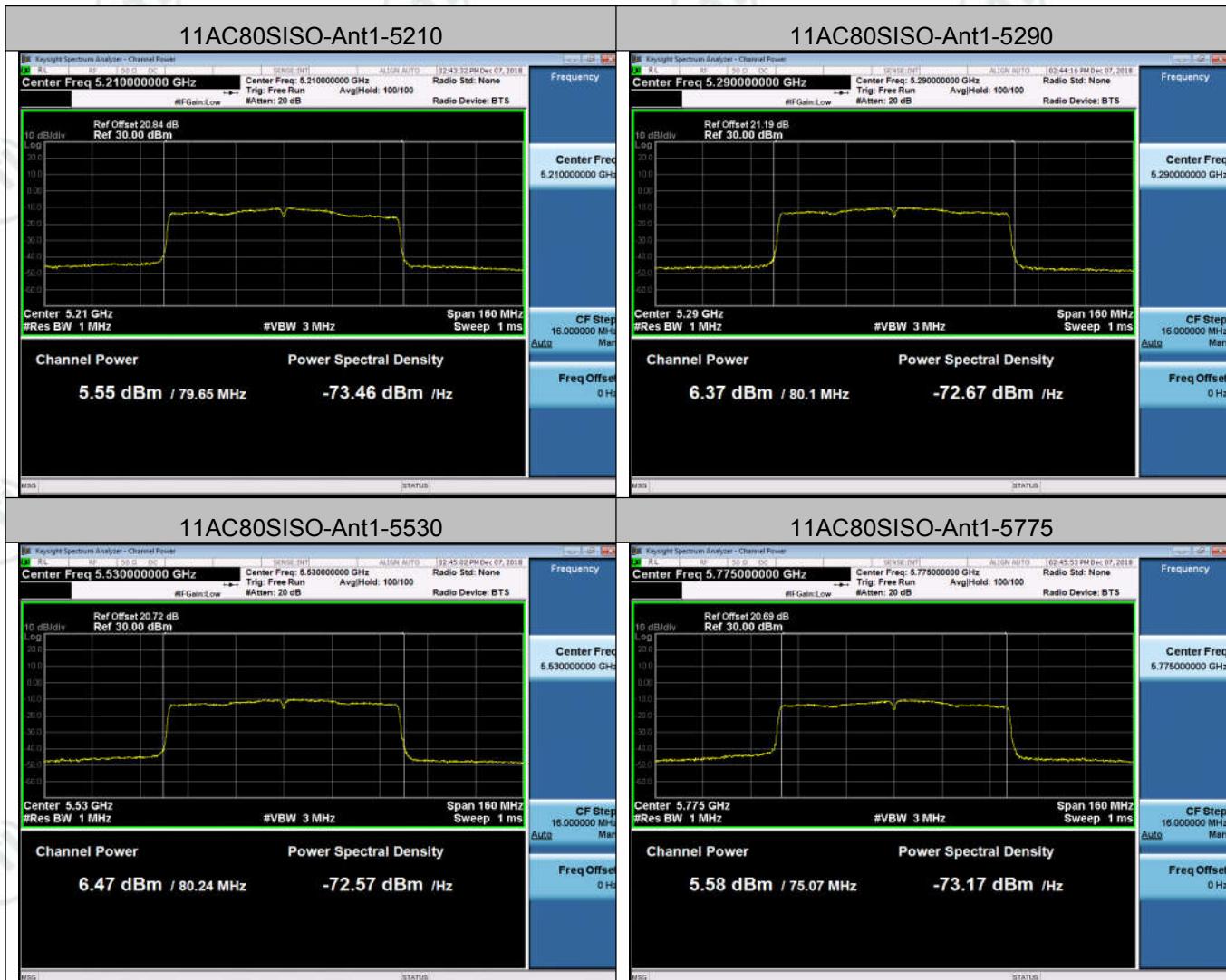












Appendix D): Power Spectral Density

Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11A	Ant1	5180	4.46	4.60	PASS
11A	Ant1	5200	4.21	4.35	PASS
11A	Ant1	5240	3.53	3.67	PASS
11A	Ant1	5260	4.27	4.42	PASS
11A	Ant1	5280	4.63	4.77	PASS
11A	Ant1	5320	5.88	6.02	PASS
11A	Ant1	5500	5.27	5.41	PASS
11A	Ant1	5580	5.65	5.80	PASS
11A	Ant1	5700	4.62	4.76	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11A	Ant1	5745	1.43	1.57	PASS
11A	Ant1	5785	-0.02	0.12	PASS
11A	Ant1	5825	-0.28	-0.13	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N20SISO	Ant1	5180	4.27	4.43	PASS
11N20SISO	Ant1	5200	5.41	5.57	PASS
11N20SISO	Ant1	5240	3.20	3.35	PASS
11N20SISO	Ant1	5260	4.45	4.60	PASS
11N20SISO	Ant1	5280	4.87	5.02	PASS
11N20SISO	Ant1	5320	5.74	5.89	PASS
11N20SISO	Ant1	5500	4.93	5.09	PASS
11N20SISO	Ant1	5580	5.46	5.61	PASS
11N20SISO	Ant1	5700	4.35	4.50	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N20SISO	Ant1	5745	2.29	2.44	PASS
11N20SISO	Ant1	5785	0.32	0.48	PASS
11N20SISO	Ant1	5825	-0.38	-0.22	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N40SISO	Ant1	5190	0.59	0.89	PASS
11N40SISO	Ant1	5230	0.52	0.82	PASS
11N40SISO	Ant1	5270	1.20	1.50	PASS
11N40SISO	Ant1	5310	2.26	2.56	PASS
11N40SISO	Ant1	5510	1.95	2.25	PASS
11N40SISO	Ant1	5550	2.19	2.51	PASS
11N40SISO	Ant1	5670	1.08	1.37	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N40SISO	Ant1	5755	-1.72	-1.40	PASS
11N40SISO	Ant1	5795	-2.82	-2.52	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC20SISO	Ant1	5180	5.15	5.31	PASS
11AC20SISO	Ant1	5200	4.30	4.46	PASS
11AC20SISO	Ant1	5240	3.50	3.65	PASS
11AC20SISO	Ant1	5260	4.25	4.40	PASS
11AC20SISO	Ant1	5280	4.69	4.83	PASS
11AC20SISO	Ant1	5320	6.18	6.33	PASS
11AC20SISO	Ant1	5500	4.78	4.94	PASS
11AC20SISO	Ant1	5580	5.27	5.42	PASS
11AC20SISO	Ant1	5700	4.55	4.70	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC20SISO	Ant1	5745	1.95	2.11	PASS
11AC20SISO	Ant1	5785	0.59	0.74	PASS
11AC20SISO	Ant1	5825	-0.04	0.11	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC40SISO	Ant1	5190	1.38	1.67	PASS
11AC40SISO	Ant1	5230	0.35	0.66	PASS
11AC40SISO	Ant1	5270	1.37	1.67	PASS
11AC40SISO	Ant1	5310	3.18	3.48	PASS
11AC40SISO	Ant1	5510	1.88	2.19	PASS
11AC40SISO	Ant1	5550	2.39	2.70	PASS
11AC40SISO	Ant1	5670	1.53	1.83	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC40SISO	Ant1	5755	-2.07	-1.76	PASS
11AC40SISO	Ant1	5795	-2.76	-2.47	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC80SISO	Ant1	5210	-2.34	-1.79	PASS
11AC80SISO	Ant1	5290	-1.36	-0.75	PASS
11AC80SISO	Ant1	5530	-1.24	-0.66	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC80SISO	Ant1	5775	-6.82	-6.25	PASS

Remark:

1. According KDB789033 D02, If continuous transmission cannot be achieved the 10 log (1/duty cycle) should be add.

$$\text{PSD} = \text{Meas.Level} + 10 \log (1/\text{duty cycle})$$

E.i.r.p spectral density=PSD+G, G = antenna gain in dBi.

2. Duty Cycle value in report Appendix A, Meas.Level value in report Appendix D,

For band 1, MCS0 mode, 802.11a channel 36:5180MHz, Duty Cycle value is 96.83% = 0.9683, Meas.Level value is 4.46 in report Appendix D, PSD=4.46+10 log (1/0.9683) = 4.60.

E.i.r.p spectral density=4.60+2=6.60.

Test Graph