

Annex for FCC 5G WIFI

Test Report No. : CTL2104135021-WF04

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.640	5170.720	5189.360	---	PASS
		5200	18.480	5190.680	5209.160	---	PASS
		5240	18.640	5230.560	5249.200	---	PASS
		5745	21.960	5734.640	5756.600	---	PASS
		5785	18.760	5775.680	5794.440	---	PASS
		5825	26.360	5811.600	5837.960	---	PASS
11N20SISO	Ant1	5180	19.480	5170.240	5189.720	---	PASS
		5200	19.560	5190.200	5209.760	---	PASS
		5240	19.480	5230.280	5249.760	---	PASS
		5745	19.600	5735.200	5754.800	---	PASS
		5785	19.680	5775.200	5794.880	---	PASS
		5825	19.520	5815.200	5834.720	---	PASS
11N40SISO	Ant1	5190	41.040	5169.360	5210.400	---	PASS
		5230	40.880	5209.680	5250.560	---	PASS
		5755	40.800	5734.600	5775.400	---	PASS
		5795	41.040	5774.520	5815.560	---	PASS
11AC20SISO	Ant1	5180	19.560	5170.240	5189.800	---	PASS
		5200	19.520	5190.240	5209.760	---	PASS
		5745	19.600	5735.160	5754.760	---	PASS
		5785	19.640	5775.200	5794.840	---	PASS
		5825	19.320	5815.400	5834.720	---	PASS
11AC40SISO	Ant1	5190	40.880	5169.680	5210.560	---	PASS
		5230	41.120	5209.360	5250.480	---	PASS
		5755	40.960	5734.440	5775.400	---	PASS
		5795	41.280	5774.440	5815.720	---	PASS
11AC80SISO	Ant1	5210	80.960	5169.520	5250.480	---	PASS
		5775	81.440	5734.520	5815.960	---	PASS

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	18.600	5170.760	5189.360	---	PASS
		5200	18.680	5190.640	5209.320	---	PASS
		5240	18.800	5230.600	5249.400	---	PASS
		5745	18.840	5735.520	5754.360	---	PASS
		5785	20.520	5774.000	5794.520	---	PASS
		5825	18.880	5815.400	5834.280	---	PASS
11N20SISO	Ant2	5180	19.520	5170.280	5189.800	---	PASS
		5200	19.600	5190.160	5209.760	---	PASS
		5240	19.520	5230.240	5249.760	---	PASS
		5745	19.560	5735.200	5754.760	---	PASS
		5785	19.720	5775.240	5794.960	---	PASS
		5825	19.640	5815.240	5834.880	---	PASS
11N40SISO	Ant2	5190	40.960	5169.600	5210.560	---	PASS
		5230	41.200	5209.360	5250.560	---	PASS
		5755	41.920	5734.360	5776.280	---	PASS
		5795	41.280	5774.600	5815.880	---	PASS
11AC20SISO	Ant2	5180	19.560	5170.240	5189.800	---	PASS
		5200	19.520	5190.200	5209.720	---	PASS
		5240	19.480	5230.280	5249.760	---	PASS
		5745	19.560	5735.160	5754.720	---	PASS
		5785	19.960	5775.240	5795.200	---	PASS
		5825	19.400	5815.280	5834.680	---	PASS
11AC40SISO	Ant2	5190	40.560	5169.760	5210.320	---	PASS
		5230	40.880	5209.600	5250.480	---	PASS
		5755	41.680	5734.360	5776.040	---	PASS
		5795	41.520	5774.280	5815.800	---	PASS
11AC80SISO	Ant2	5210	80.800	5169.680	5250.480	---	PASS
		5775	81.600	5734.360	5815.960	---	PASS

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



11A_Ant2_5180



11A_Ant2_5200



11A_Ant2_5240



11A_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC20SISO_Ant2_5745



11AC20SISO_Ant2_5785



11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



11AC80SISO_Ant2_5210



11AC80SISO_Ant2_5775



Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.514	5171.778	5188.292	---	PASS
		5200	16.495	5191.748	5208.243	---	PASS
		5240	16.487	5231.745	5248.232	---	PASS
		5745	16.598	5736.707	5753.305	---	PASS
		5785	16.653	5776.705	5793.358	---	PASS
		5825	16.672	5816.663	5833.335	---	PASS
11N20SISO	Ant1	5180	17.653	5171.194	5188.847	---	PASS
		5200	17.624	5191.176	5208.800	---	PASS
		5240	17.642	5231.183	5248.825	---	PASS
		5745	17.644	5736.168	5753.812	---	PASS
		5785	17.647	5776.190	5793.837	---	PASS
		5825	17.646	5816.185	5833.831	---	PASS
11N40SISO	Ant1	5190	36.099	5171.993	5208.092	---	PASS
		5230	36.191	5211.963	5248.154	---	PASS
		5755	36.329	5736.922	5773.251	---	PASS
		5795	36.456	5776.844	5813.300	---	PASS
11AC20SISO	Ant1	5180	17.642	5171.206	5188.848	---	PASS
		5200	17.628	5191.174	5208.802	---	PASS
		5240	17.620	5231.190	5248.810	---	PASS
		5745	17.676	5736.148	5753.824	---	PASS
		5785	17.649	5776.172	5793.821	---	PASS
		5825	17.608	5816.203	5833.811	---	PASS
11AC40SISO	Ant1	5190	36.066	5172.041	5208.107	---	PASS
		5230	36.232	5211.922	5248.154	---	PASS
		5755	36.402	5736.884	5773.286	---	PASS
		5795	36.339	5776.884	5813.223	---	PASS
11AC80SISO	Ant1	5210	74.666	5172.729	5247.395	---	PASS
		5775	74.667	5737.911	5812.578	---	PASS

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	16.540	5171.756	5188.296	---	PASS
		5200	16.509	5191.744	5208.253	---	PASS
		5240	16.517	5231.734	5248.251	---	PASS
		5745	16.552	5736.733	5753.285	---	PASS
		5785	16.628	5776.679	5793.307	---	PASS
		5825	16.540	5816.742	5833.282	---	PASS
11N20SISO	Ant2	5180	17.655	5171.200	5188.855	---	PASS
		5200	17.619	5191.187	5208.806	---	PASS
		5240	17.622	5231.179	5248.801	---	PASS
		5745	17.683	5736.158	5753.841	---	PASS
		5785	17.704	5776.154	5793.858	---	PASS
		5825	17.688	5816.156	5833.844	---	PASS
11N40SISO	Ant2	5190	36.427	5171.888	5208.315	---	PASS
		5230	36.280	5211.926	5248.206	---	PASS
		5755	36.551	5736.822	5773.373	---	PASS
		5795	36.470	5776.860	5813.330	---	PASS
11AC20SISO	Ant2	5180	17.641	5171.201	5188.842	---	PASS
		5200	17.641	5191.178	5208.819	---	PASS
		5240	17.617	5231.181	5248.798	---	PASS
		5745	17.663	5736.152	5753.815	---	PASS
		5785	17.698	5776.154	5793.852	---	PASS
		5825	17.667	5816.174	5833.841	---	PASS
11AC40SISO	Ant2	5190	36.206	5172.018	5208.224	---	PASS
		5230	36.180	5211.964	5248.144	---	PASS
		5755	36.567	5736.791	5773.358	---	PASS
		5795	36.408	5776.874	5813.282	---	PASS
11AC80SISO	Ant2	5210	74.589	5172.864	5247.453	---	PASS
		5775	74.807	5737.731	5812.538	---	PASS

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190



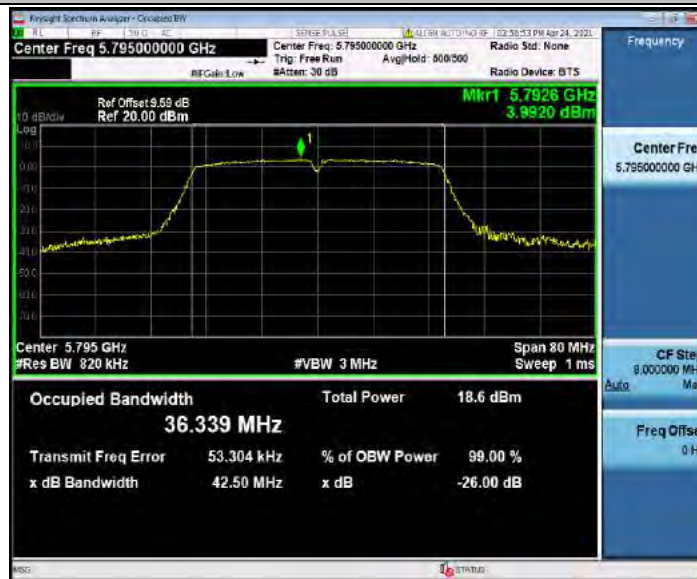
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11AC40ISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



11A_Ant2_5180



11A_Ant2_5200



11A_Ant2_5240



11A_Ant2_5745



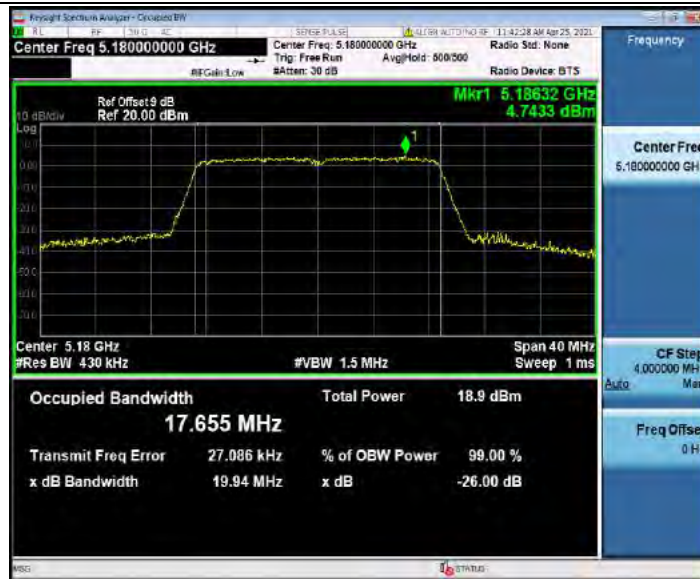
11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5180



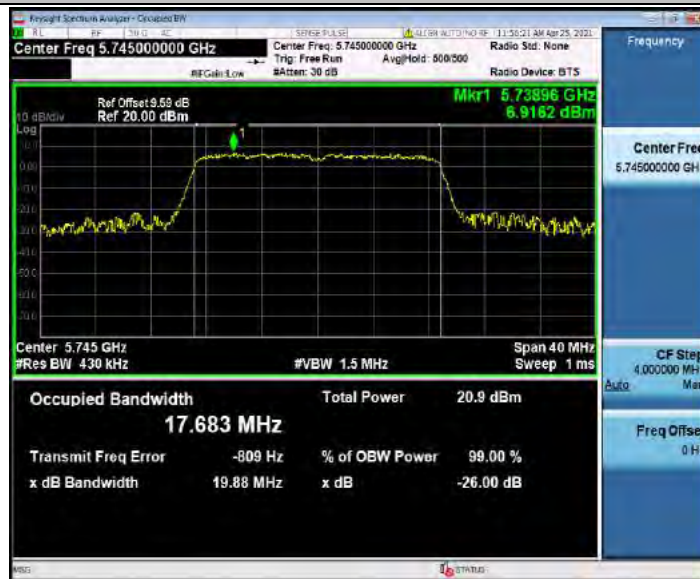
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11N20SISO_Ant2_5240



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



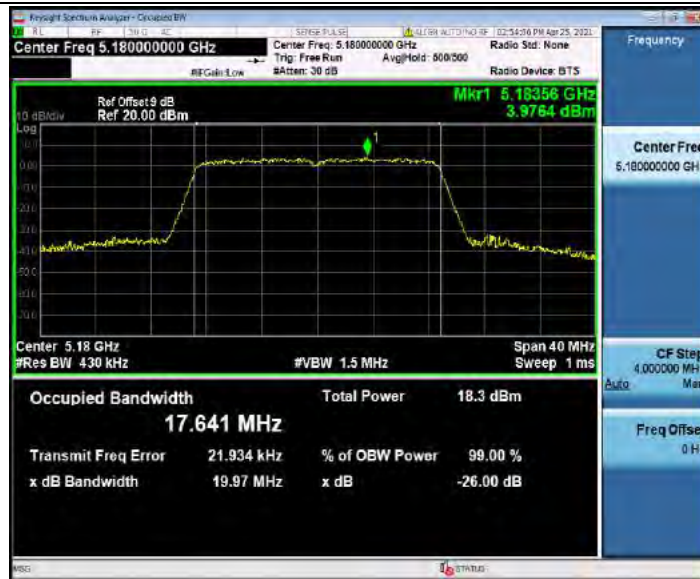
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11N40SISO_Ant2_5795



11AC20SISO_Ant2_5180



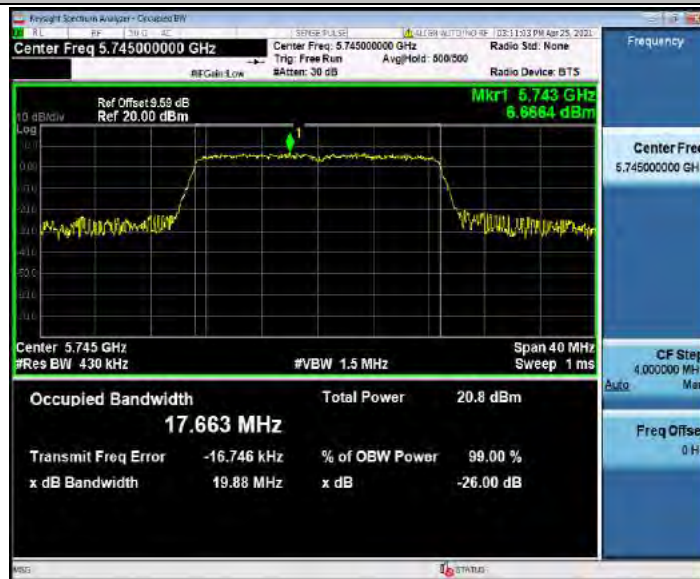
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11AC20SISO_Ant2_5240



11AC20SISO_Ant2_5745



11AC20SISO_Ant2_5785



11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



11AC80SISO_Ant2_5210



11AC80ISO_Ant2_5775



Appendix A3: Min emission bandwidth

Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.440	5736.760	5753.200	0.5	PASS
		5785	16.360	5776.800	5793.160	0.5	PASS
		5825	16.360	5816.800	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.640	5736.160	5753.800	0.5	PASS
		5785	17.600	5776.160	5793.760	0.5	PASS
		5825	17.080	5816.440	5833.520	0.5	PASS
11N40SISO	Ant1	5755	35.280	5737.320	5772.600	0.5	PASS
		5795	35.280	5777.320	5812.600	0.5	PASS
11AC20SISO	Ant1	5745	17.600	5736.160	5753.760	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.640	5816.160	5833.800	0.5	PASS
11AC40SISO	Ant1	5755	35.280	5737.320	5772.600	0.5	PASS
		5795	35.280	5777.320	5812.600	0.5	PASS
11AC80SISO	Ant1	5775	75.360	5737.400	5812.760	0.5	PASS

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5745	16.400	5736.760	5753.160	0.5	PASS
		5785	16.360	5776.800	5793.160	0.5	PASS
		5825	16.360	5816.800	5833.160	0.5	PASS
11N20SISO	Ant2	5745	17.640	5736.160	5753.800	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.400	5816.160	5833.560	0.5	PASS
11N40SISO	Ant2	5755	35.200	5737.400	5772.600	0.5	PASS
		5795	35.280	5777.320	5812.600	0.5	PASS
11AC20SISO	Ant2	5745	17.360	5736.160	5753.520	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.240	5816.200	5833.440	0.5	PASS
11AC40SISO	Ant2	5755	35.360	5737.320	5772.680	0.5	PASS
		5795	35.520	5777.320	5812.840	0.5	PASS
11AC80SISO	Ant2	5775	75.520	5737.240	5812.760	0.5	PASS

Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



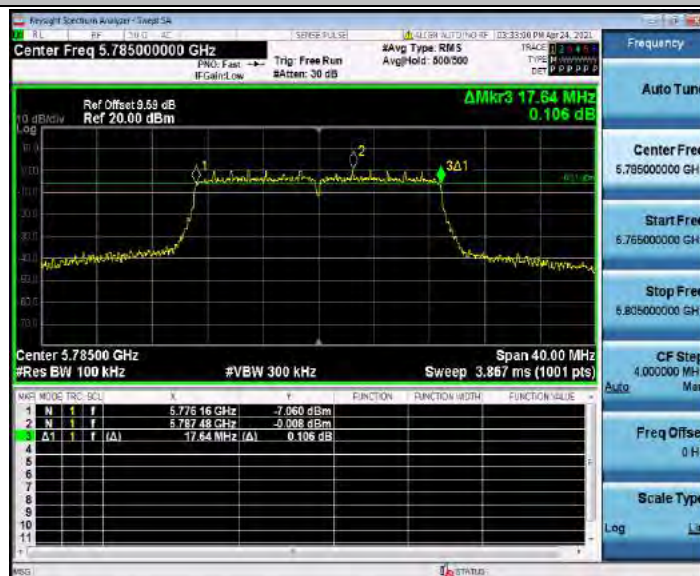
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



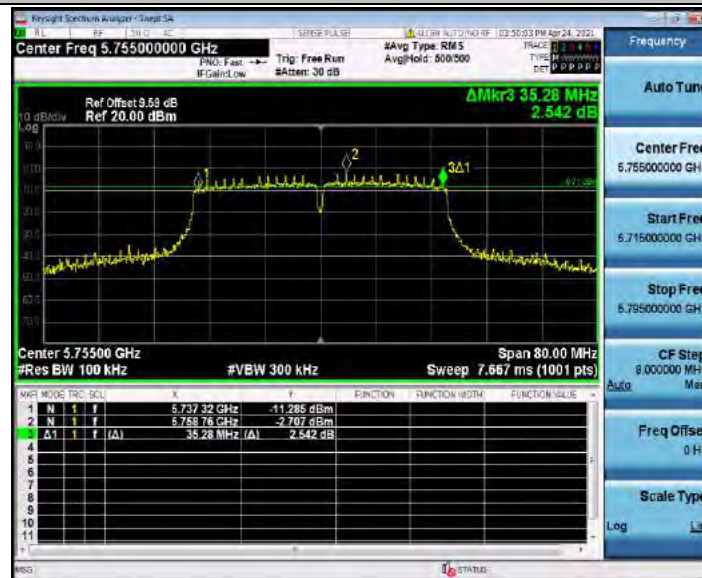
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	13.65	<=23.98	PASS
		5200	14.45	<=23.98	PASS
		5240	13.90	<=23.98	PASS
		5745	14.65	<=30	PASS
		5785	15.26	<=30	PASS
		5825	16.57	<=30	PASS
11N20SISO	Ant1	5180	12.11	<=23.98	PASS
		5200	12.40	<=23.98	PASS
		5240	12.06	<=23.98	PASS
		5745	12.96	<=30	PASS
		5785	13.68	<=30	PASS
		5825	14.51	<=30	PASS
11N40SISO	Ant1	5190	12.05	<=23.98	PASS
		5230	12.19	<=23.98	PASS
		5755	12.50	<=30	PASS
		5795	12.96	<=30	PASS
11AC20SISO	Ant1	5180	10.65	<=23.98	PASS
		5200	11.18	<=23.98	PASS
		5240	11.51	<=23.98	PASS
		5745	10.64	<=30	PASS
		5785	11.45	<=30	PASS
		5825	12.87	<=30	PASS
11AC40SISO	Ant1	5190	10.36	<=23.98	PASS
		5230	10.49	<=23.98	PASS
		5755	10.97	<=30	PASS
		5795	11.51	<=30	PASS
11AC80SISO	Ant1	5210	10.53	<=23.98	PASS
		5775	11.06	<=30	PASS

TestMode	Antenna	Channel[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	5180	14.33	<=23.98	PASS
		5200	15.07	<=23.98	PASS
		5240	15.36	<=23.98	PASS
		5745	14.77	<=30	PASS
		5785	15.23	<=30	PASS
		5825	15.56	<=30	PASS
11N20SISO	Ant2	5180	12.29	<=23.98	PASS
		5200	12.78	<=23.98	PASS

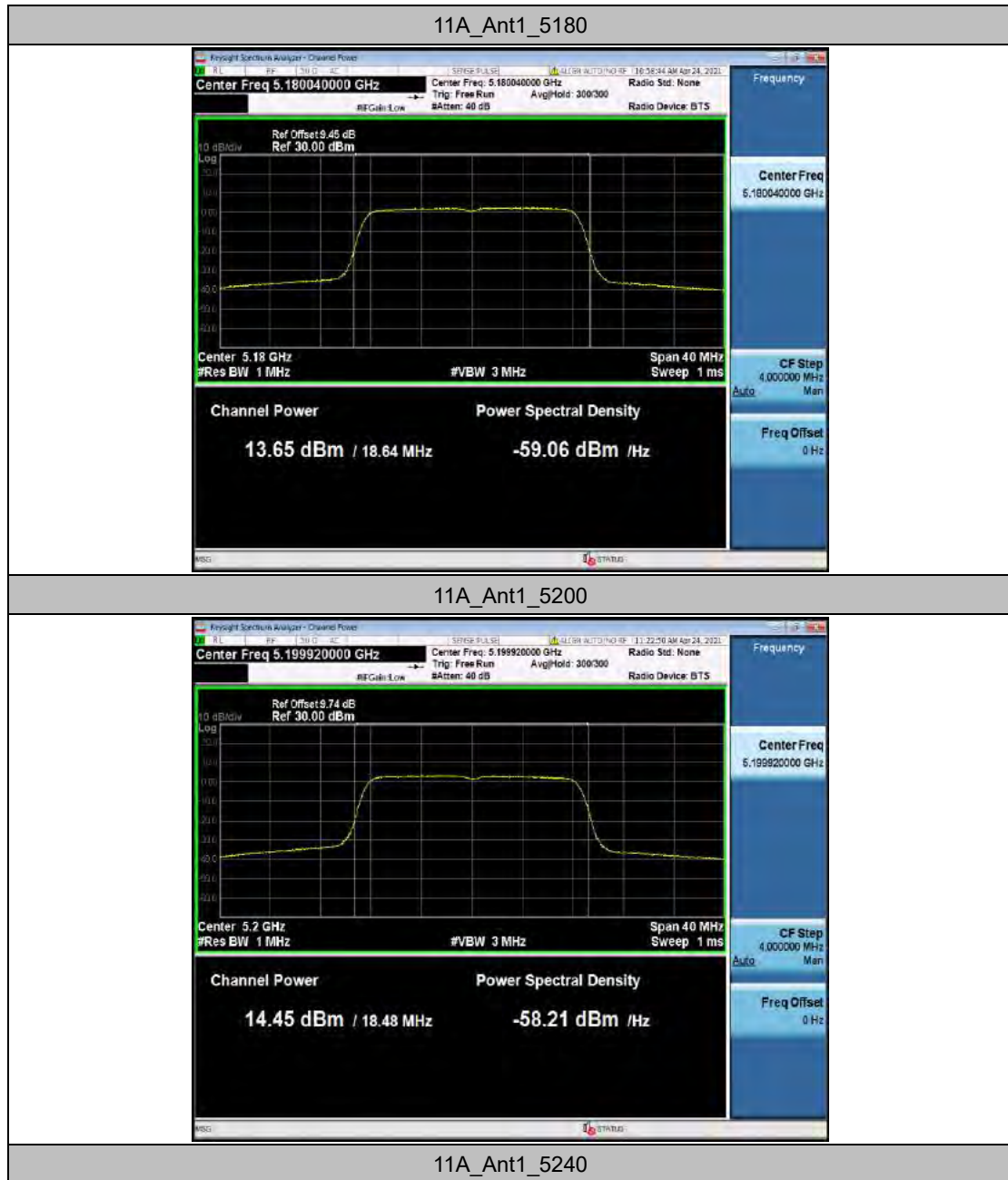
		5240	13.12	<=23.98	PASS
		5745	14.62	<=30	PASS
		5785	15.07	<=30	PASS
		5825	16.18	<=30	PASS
11N40SISO	Ant2	5190	12.73	<=23.98	PASS
		5230	13.19	<=23.98	PASS
		5755	15.55	<=30	PASS
		5795	15.15	<=30	PASS
11AC20SISO	Ant2	5180	11.72	<=23.98	PASS
		5200	12.62	<=23.98	PASS
		5240	12.50	<=23.98	PASS
		5745	13.91	<=30	PASS
		5785	14.64	<=30	PASS
		5825	15.77	<=30	PASS
11AC40SISO	Ant2	5190	11.80	<=23.98	PASS
		5230	12.22	<=23.98	PASS
		5755	14.05	<=30	PASS
		5795	14.00	<=30	PASS
11AC80SISO	Ant2	5210	13.21	<=23.98	PASS
		5775	12.41	<=30	PASS

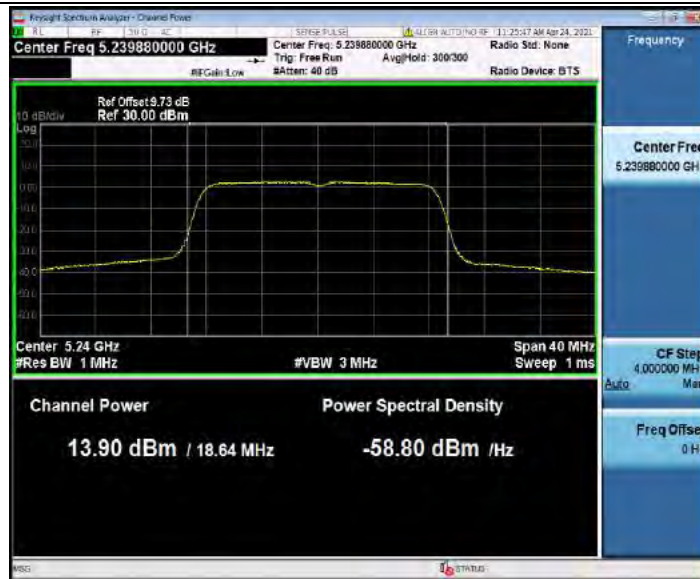
TestMode	Antenna	Channel[MHz]	Result[dBm]	Limit[dBm]	Verdict
11N20	MIMO	5180	15.21	<=23.82	PASS
		5200	15.60	<=23.82	PASS
		5240	15.63	<=23.82	PASS
		5745	16.88	<=29.84	PASS
		5785	17.44	<=29.84	PASS
		5825	18.44	<=29.84	PASS
11N40	MIMO	5190	15.41	<=23.82	PASS
		5230	15.73	<=23.82	PASS
		5755	17.30	<=29.84	PASS
		5795	17.20	<=29.84	PASS
11AC20	MIMO	5180	14.23	<=23.82	PASS
		5200	14.97	<=23.82	PASS
		5240	15.04	<=23.82	PASS
		5745	15.59	<=29.84	PASS
		5785	16.34	<=29.84	PASS
		5825	17.57	<=29.84	PASS
11AC40	MIMO	5190	14.15	<=23.82	PASS
		5230	14.45	<=23.82	PASS
		5755	15.79	<=29.84	PASS
		5795	15.94	<=29.84	PASS
11AC80	MIMO	5210	15.08	<=23.82	PASS

		5775	14.80	<=29.84	PASS
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Note: The directional gain is 6.16 dBi greater than 6dBi, the limit of output power MIMO mode shall reduce 0.16dB.

Test Graphs





11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



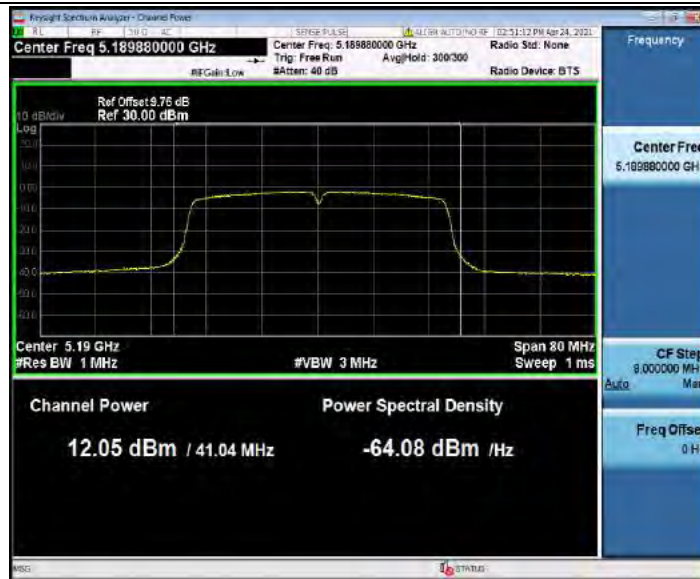
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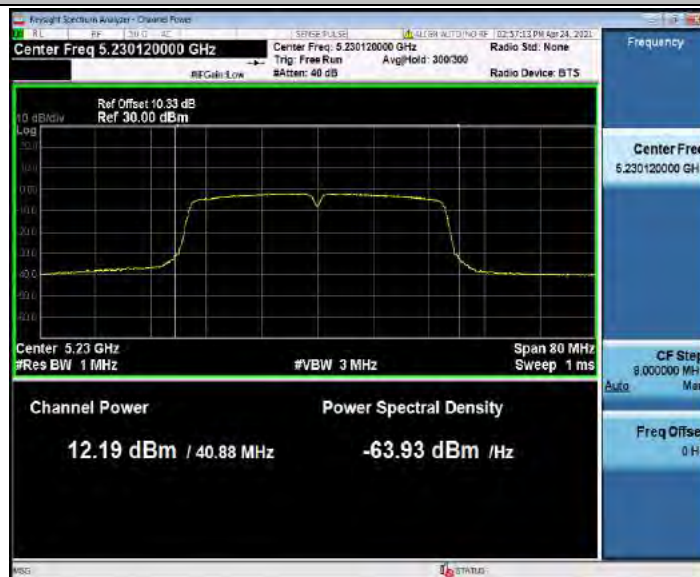
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11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



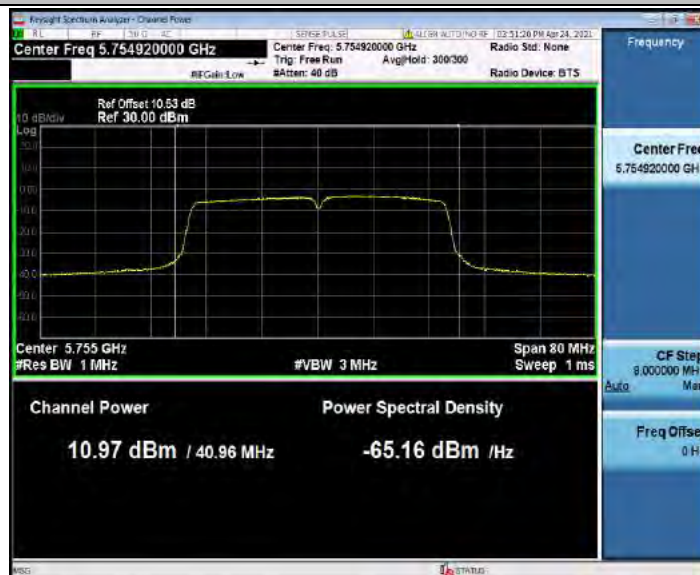
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



11A_Ant2_5180



11A_Ant2_5200



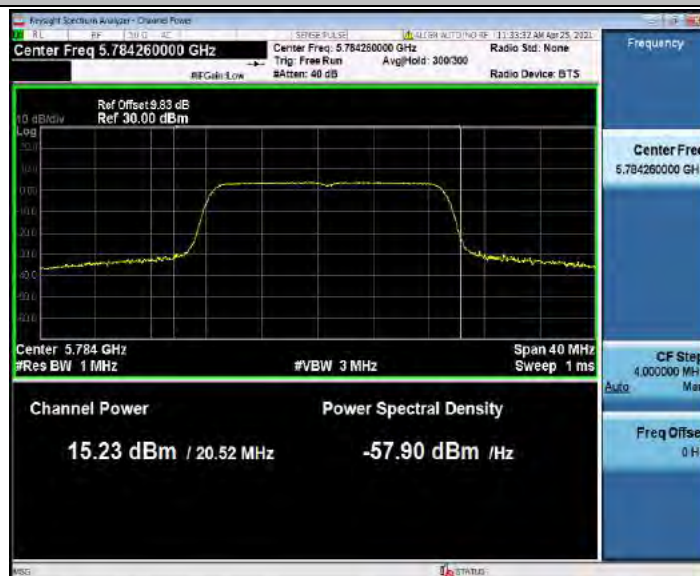
11A_Ant2_5240



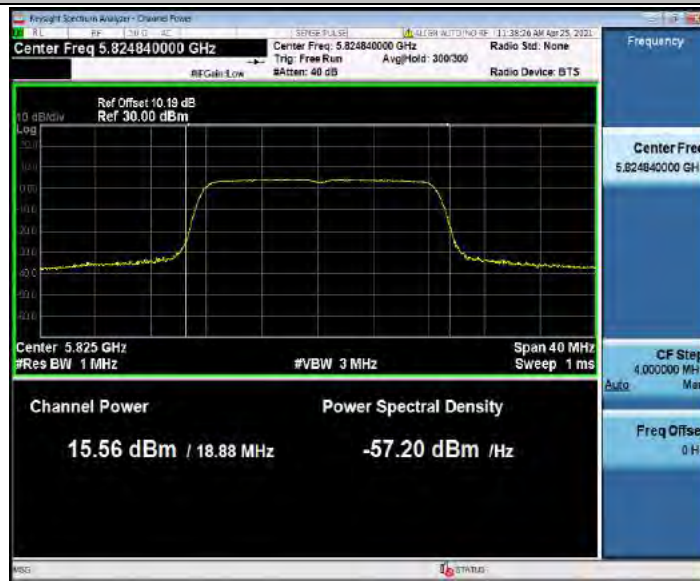
11A_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



11N20SISO_Ant2_5745



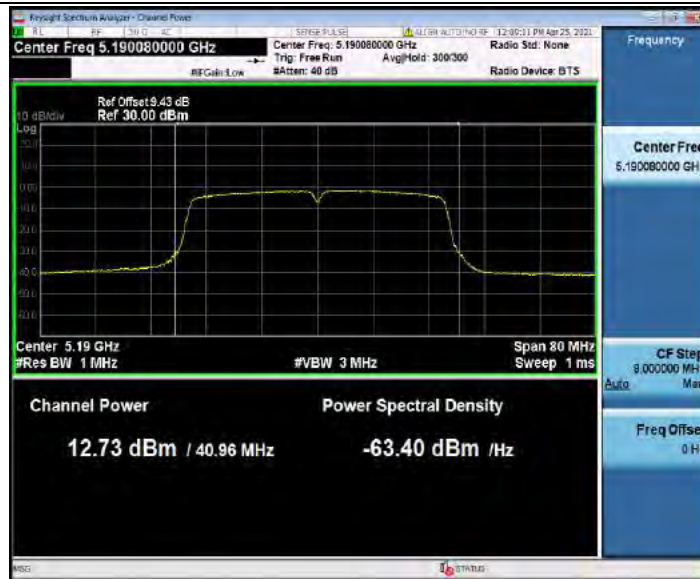
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11N20SISO_Ant2_5825



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



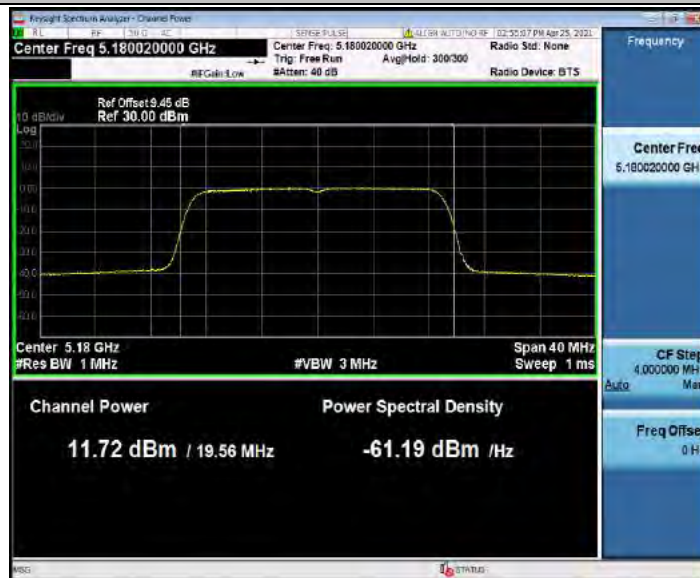
11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC20SISO_Ant2_5745



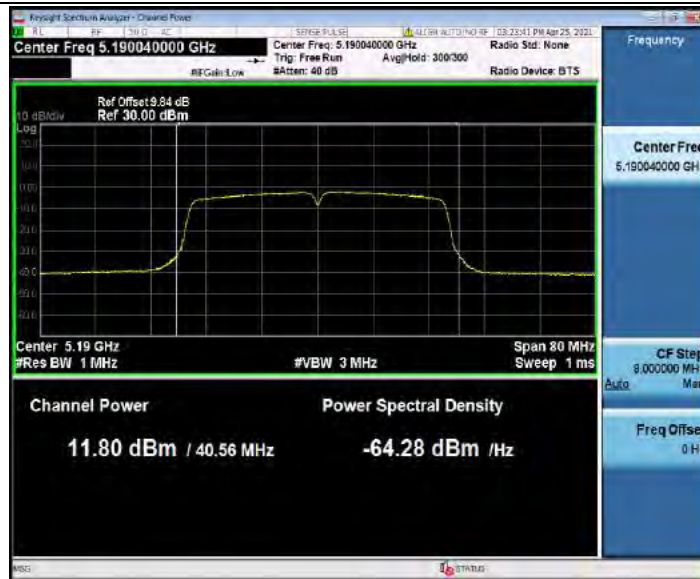
11AC20SISO_Ant2_5785



11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



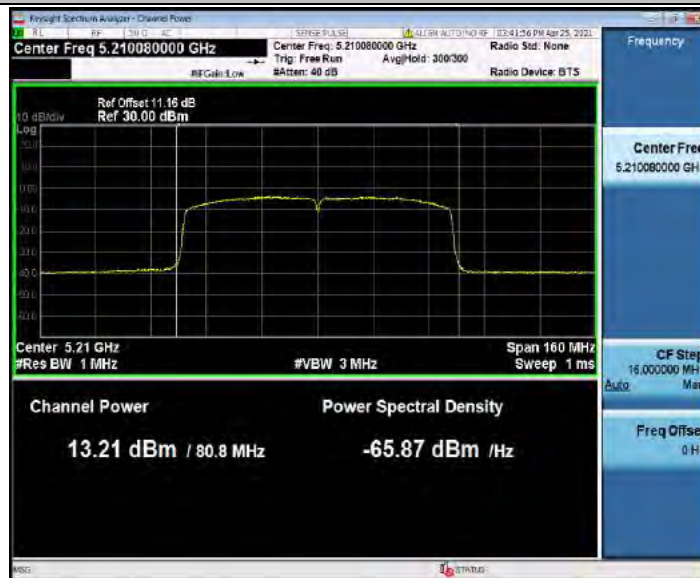
11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



11AC80SISO_Ant2_5210



11AC80SISO_Ant2_5775



Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result	Limit	Verdict
11A	Ant1	5180	2.61 dBm/MHz	<=11dBm/MHz	PASS
		5200	3.55 dBm/MHz	<=11dBm/MHz	PASS
		5240	3.54 dBm/MHz	<=11dBm/MHz	PASS
		5745	0.9830dBm/500KHz	<=30dBm/500KHz	PASS
		5785	1.3430dBm/500KHz	<=30dBm/500KHz	PASS
		5825	2.8530dBm/500KHz	<=30dBm/500KHz	PASS
11N20SISO	Ant1	5180	0.98 dBm/MHz	<=11dBm/MHz	PASS
		5200	1.32 dBm/MHz	<=11dBm/MHz	PASS
		5240	0.79 dBm/MHz	<=11dBm/MHz	PASS
		5745	-1.1730dBm/500KHz	<=30dBm/500KHz	PASS
		5785	-0.7230dBm/500KHz	<=30dBm/500KHz	PASS
		5825	0.4130dBm/500KHz	<=30dBm/500KHz	PASS
11N40SISO	Ant1	5190	-1.19 dBm/MHz	<=11dBm/MHz	PASS
		5230	-2.03 dBm/MHz	<=11dBm/MHz	PASS
		5755	-4.3230dBm/500KHz	<=30dBm/500KHz	PASS
		5795	-3.4230dBm/500KHz	<=30dBm/500KHz	PASS
11AC20SISO	Ant1	5180	-0.73 dBm/MHz	<=11dBm/MHz	PASS
		5200	-0.16 dBm/MHz	<=11dBm/MHz	PASS
		5240	-0.85 dBm/MHz	<=11dBm/MHz	PASS
		5745	-3.5130dBm/500KHz	<=30dBm/500KHz	PASS
		5785	-2.4830dBm/500KHz	<=30dBm/500KHz	PASS
		5825	-1.2830dBm/500KHz	<=30dBm/500KHz	PASS
11AC40SISO	Ant1	5190	-3.14 dBm/MHz	<=11dBm/MHz	PASS
		5230	-3.42 dBm/MHz	<=11dBm/MHz	PASS
		5755	-5.630dBm/500KHz	<=30dBm/500KHz	PASS
		5795	-4.8230dBm/500KHz	<=30dBm/500KHz	PASS
11AC80SISO	Ant1	5210	-6.23 dBm/MHz	<=11dBm/MHz	PASS
		5775	-8.7330dBm/500KHz	<=30dBm/500KHz	PASS

TestMode	Antenna	Channel	Result	Limit	Verdict
11A	Ant2	5180	3.53 dBm/MHz	<=11dBm/MHz	PASS
		5200	4.19 dBm/MHz	<=11dBm/MHz	PASS
		5240	4.64 dBm/MHz	<=11dBm/MHz	PASS
		5745	0.8530 dBm/500KHz	<=30dBm/500KHz	PASS
		5785	1.2830 dBm/500KHz	<=30dBm/500KHz	PASS
		5825	1.4630 dBm/500KHz	<=30dBm/500KHz	PASS
11N20SISO	Ant2	5180	1.04 dBm/MHz	<=11dBm/MHz	PASS
		5200	1.69 dBm/MHz	<=11dBm/MHz	PASS
		5240	1.91 dBm/MHz	<=11dBm/MHz	PASS
		5745	0.430 dBm/500KHz	<=30dBm/500KHz	PASS
		5785	0.9630 dBm/500KHz	<=30dBm/500KHz	PASS
		5825	2.0530 dBm/500KHz	<=30dBm/500KHz	PASS
11N40SISO	Ant2	5190	-1.14 dBm/MHz	<=11dBm/MHz	PASS
		5230	-0.82 dBm/MHz	<=11dBm/MHz	PASS
		5755	-1.4830 dBm/500KHz	<=30dBm/500KHz	PASS
		5795	-1.7930 dBm/500KHz	<=30dBm/500KHz	PASS
11AC20SISO	Ant2	5180	0.55 dBm/MHz	<=11dBm/MHz	PASS
		5200	1.39 dBm/MHz	<=11dBm/MHz	PASS
		5240	1.49 dBm/MHz	<=11dBm/MHz	PASS
		5745	-0.3530 dBm/500KHz	<=30dBm/500KHz	PASS
		5785	0.5630 dBm/500KHz	<=30dBm/500KHz	PASS
		5825	1.8630 dBm/500KHz	<=30dBm/500KHz	PASS
11AC40SISO	Ant2	5190	-1.74 dBm/MHz	<=11dBm/MHz	PASS
		5230	-1.48 dBm/MHz	<=11dBm/MHz	PASS
		5755	-2.9530 dBm/500KHz	<=30dBm/500KHz	PASS
		5795	-2.9830 dBm/500KHz	<=30dBm/500KHz	PASS
11AC80SISO	Ant2	5210	-3.8 dBm/MHz	<=11dBm/MHz	PASS
		5775	-7.4430 dBm/500KHz	<=30dBm/500KHz	PASS

TestMode	Antenna	Channel	Result	Limit	Verdict
11N20	MIMO	5180	4.02 dBm/MHz	<=10.84dBm/MHz	PASS
		5200	4.52 dBm/MHz	<=10.84dBm/MHz	PASS
		5240	4.40 dBm/MHz	<=10.84dBm/MHz	PASS
		5745	2.7030 dBm/500KHz	<=29.84dBm/500KHz	PASS

		5785	3.2130 dBm/500KHz	<=29.84dBm/500KHz	PASS
		5825	4.3230 dBm/500KHz	<=29.84dBm/500KHz	PASS
11N40	MIMO	5190	1.87 dBm/MHz	<=10.84dBm/MHz	PASS
		5230	2.19 dBm/MHz	<=10.84dBm/MHz	PASS
		5755	1.5330 dBm/500KHz	<=29.84dBm/500KHz	PASS
		5795	1.2230 dBm/500KHz	<=29.84dBm/500KHz	PASS
11AC20	MIMO	5180	3.56 dBm/MHz	<=10.84dBm/MHz	PASS
		5200	4.40 dBm/MHz	<=10.84dBm/MHz	PASS
		5240	3.49 dBm/MHz	<=10.84dBm/MHz	PASS
		5745	1.3630 dBm/500KHz	<=29.84dBm/500KHz	PASS
		5785	2.3130 dBm/500KHz	<=29.84dBm/500KHz	PASS
		5825	3.5830 dBm/500KHz	<=29.84dBm/500KHz	PASS
11AC40	MIMO	5190	0.63 dBm/MHz	<=10.84dBm/MHz	PASS
		5230	0.67 dBm/MHz	<=10.84dBm/MHz	PASS
		5755	-1.0730 dBm/500KHz	<=29.84dBm/500KHz	PASS
		5795	-0.7930 dBm/500KHz	<=29.84dBm/500KHz	PASS
11AC80	MIMO	5210	-1.84 dBm/MHz	<=10.84dBm/MHz	PASS
		5775	-5.0330 dBm/500KHz	<=29.84dBm/500KHz	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.

3.The directional gain is 6.16 dBi greater than 6dBi, the limit of PSD MIMO mode shall reduce 0.16dB.

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



11A_Ant2_5180



11A_Ant2_5200



11A_Ant2_5240



11A_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC20SISO_Ant2_5745



11AC20SISO_Ant2_5785



11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



11AC80SISO_Ant2_5210



11AC80ISO_Ant2_5775



Appendix D: Frequency Stability

Test Result

TestMod e	Antenn a	Channe l	Voltage					
			Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-21300	-4.111969	20	PASS
			LV	NT	-25800	-4.980695	20	PASS
			HV	NT	-26400	-5.096525	20	PASS
11AC20S ISO	Ant1	5180	NV	NT	-27600	-5.328185	20	PASS
			LV	NT	-27900	-5.3861	20	PASS
			HV	NT	-27000	-5.212355	20	PASS
		5200	NV	NT	-25500	-4.903846	20	PASS
			LV	NT	-23400	-4.5	20	PASS
			HV	NT	-22200	-4.269231	20	PASS
		5240	NV	NT	-24900	-4.751908	20	PASS
			LV	NT	-22200	-4.236641	20	PASS
			HV	NT	-20700	-3.950382	20	PASS
		5745	NV	NT	-26400	-4.5953	20	PASS
			LV	NT	-24000	-4.177546	20	PASS
			HV	NT	-22200	-3.86423	20	PASS
		5785	NV	NT	-22800	-3.941227	20	PASS
			LV	NT	-21000	-3.630078	20	PASS
			HV	NT	-19500	-3.370787	20	PASS
		5825	NV	NT	-24600	-4.223176	20	PASS
			LV	NT	-21900	-3.759657	20	PASS
			HV	NT	-20100	-3.450644	20	PASS
11AC40S ISO	Ant1	5190	NV	NT	-24000	-4.624277	20	PASS
			LV	NT	-21900	-4.219653	20	PASS
			HV	NT	-20400	-3.930636	20	PASS
		5230	NV	NT	-24000	-4.58891	20	PASS
			LV	NT	-21300	-4.072658	20	PASS
			HV	NT	-19800	-3.785851	20	PASS
		5755	NV	NT	-22800	-3.961772	20	PASS
			LV	NT	-20400	-3.544744	20	PASS
			HV	NT	-18600	-3.231972	20	PASS
		5795	NV	NT	-23700	-4.089733	20	PASS
			LV	NT	-20100	-3.468507	20	PASS
			HV	NT	-18300	-3.157895	20	PASS
11AC80S ISO	Ant1	5210	NV	NT	-24600	-4.721689	20	PASS
			LV	NT	-22500	-4.318618	20	PASS

		5775	HV	NT	-20700	-3.973129	20	PASS
			NV	NT	-26100	-4.519481	20	PASS
			LV	NT	-22800	-3.948052	20	PASS
			HV	NT	-20400	-3.532468	20	PASS

Temperature								
TestMod e	Antenn a	Channe l	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-25800	-4.980695	20	PASS
			NV	-20	-24900	-4.80695	20	PASS
			NV	-10	-23700	-4.57529	20	PASS
			NV	0	-22800	-4.401544	20	PASS
			NV	10	-21600	-4.169884	20	PASS
			NV	20	-21000	-4.054054	20	PASS
			NV	30	-20100	-3.880309	20	PASS
			NV	40	-19200	-3.706564	20	PASS
			NV	50	-18900	-3.648649	20	PASS
11AC20S ISO	Ant1	5180	NV	-30	-25800	-4.980695	20	PASS
			NV	-20	-24600	-4.749035	20	PASS
			NV	-10	-23700	-4.57529	20	PASS
			NV	0	-22800	-4.401544	20	PASS
			NV	10	-21900	-4.227799	20	PASS
			NV	20	-21000	-4.054054	20	PASS
			NV	30	-20700	-3.996139	20	PASS
			NV	40	-20100	-3.880309	20	PASS
			NV	50	-19800	-3.822394	20	PASS
		5200	NV	-30	-20700	-3.980769	20	PASS
			NV	-20	-19800	-3.807692	20	PASS
			NV	-10	-18900	-3.634615	20	PASS
			NV	0	-18300	-3.519231	20	PASS
			NV	10	-17700	-3.403846	20	PASS
			NV	20	-17700	-3.403846	20	PASS
			NV	30	-17100	-3.288462	20	PASS
			NV	40	-16500	-3.173077	20	PASS
			NV	50	-16500	-3.173077	20	PASS
		5240	NV	-30	-19800	-3.778626	20	PASS
			NV	-20	-18600	-3.549618	20	PASS
			NV	-10	-18000	-3.435115	20	PASS
			NV	0	-17400	-3.320611	20	PASS
			NV	10	-17400	-3.320611	20	PASS
			NV	20	-16800	-3.206107	20	PASS
			NV	30	-17100	-3.263359	20	PASS
			NV	40	-16200	-3.091603	20	PASS

			NV	50	-16200	-3.091603	20	PASS
		5745	NV	-30	-20700	-3.603133	20	PASS
			NV	-20	-19800	-3.446475	20	PASS
			NV	-10	-18900	-3.289817	20	PASS
			NV	0	-17700	-3.08094	20	PASS
			NV	10	-17400	-3.028721	20	PASS
			NV	20	-17100	-2.976501	20	PASS
			NV	30	-16800	-2.924282	20	PASS
			NV	40	-16500	-2.872063	20	PASS
			NV	50	-16500	-2.872063	20	PASS
		5785	NV	-30	-18900	-3.26707	20	PASS
			NV	-20	-18000	-3.111495	20	PASS
			NV	-10	-17400	-3.007779	20	PASS
			NV	0	-16500	-2.852204	20	PASS
			NV	10	-16200	-2.800346	20	PASS
			NV	20	-16200	-2.800346	20	PASS
			NV	30	-15600	-2.696629	20	PASS
			NV	40	-15600	-2.696629	20	PASS
			NV	50	-15000	-2.592913	20	PASS
		5825	NV	-30	-18900	-3.244635	20	PASS
			NV	-20	-18000	-3.090129	20	PASS
			NV	-10	-17400	-2.987124	20	PASS
			NV	0	-16800	-2.88412	20	PASS
			NV	10	-16800	-2.88412	20	PASS
			NV	20	-16500	-2.832618	20	PASS
			NV	30	-16200	-2.781116	20	PASS
			NV	40	-16200	-2.781116	20	PASS
			NV	50	-15900	-2.729614	20	PASS
11AC40S ISO	Ant1	5190	NV	-30	-19200	-3.699422	20	PASS
			NV	-20	-18000	-3.468208	20	PASS
			NV	-10	-17700	-3.410405	20	PASS
			NV	0	-17100	-3.294798	20	PASS
			NV	10	-16500	-3.179191	20	PASS
			NV	20	-16500	-3.179191	20	PASS
			NV	30	-16500	-3.179191	20	PASS
			NV	40	-15900	-3.063584	20	PASS
			NV	50	-15600	-3.00578	20	PASS
		5230	NV	-30	-18900	-3.613767	20	PASS
			NV	-20	-17700	-3.384321	20	PASS
			NV	-10	-16800	-3.212237	20	PASS
			NV	0	-16500	-3.154876	20	PASS
			NV	10	-16200	-3.097514	20	PASS
			NV	20	-15600	-2.982792	20	PASS

			NV	30	-15300	-2.92543	20	PASS
			NV	40	-15300	-2.92543	20	PASS
			NV	50	-14700	-2.810707	20	PASS
		5755	NV	-30	-16800	-2.919201	20	PASS
			NV	-20	-15600	-2.710686	20	PASS
			NV	-10	-14400	-2.502172	20	PASS
			NV	0	-13500	-2.345786	20	PASS
			NV	10	-12900	-2.241529	20	PASS
			NV	20	-12600	-2.189401	20	PASS
			NV	30	-11700	-2.033015	20	PASS
			NV	40	-11400	-1.980886	20	PASS
			NV	50	-11400	-1.980886	20	PASS
		5795	NV	-30	-17400	-3.002588	20	PASS
			NV	-20	-16500	-2.847282	20	PASS
			NV	-10	-15900	-2.743745	20	PASS
			NV	0	-15900	-2.743745	20	PASS
			NV	10	-15600	-2.691976	20	PASS
			NV	20	-15300	-2.640207	20	PASS
			NV	30	-15300	-2.640207	20	PASS
			NV	40	-15000	-2.588438	20	PASS
			NV	50	-15000	-2.588438	20	PASS
11AC80S ISO	Ant1	5210	NV	-30	-19500	-3.742802	20	PASS
			NV	-20	-18600	-3.570058	20	PASS
			NV	-10	-18000	-3.454894	20	PASS
			NV	0	-17400	-3.339731	20	PASS
			NV	10	-16500	-3.166987	20	PASS
			NV	20	-16500	-3.166987	20	PASS
			NV	30	-16200	-3.109405	20	PASS
			NV	40	-15900	-3.051823	20	PASS
			NV	50	-15600	-2.994242	20	PASS
		5775	NV	-30	-18900	-3.272727	20	PASS
			NV	-20	-17700	-3.064935	20	PASS
			NV	-10	-16800	-2.909091	20	PASS
			NV	0	-16200	-2.805195	20	PASS
			NV	10	-15600	-2.701299	20	PASS
			NV	20	-14700	-2.545455	20	PASS
			NV	30	-14700	-2.545455	20	PASS
			NV	40	-13800	-2.38961	20	PASS
			NV	50	-13200	-2.285714	20	PASS