



Appendix C

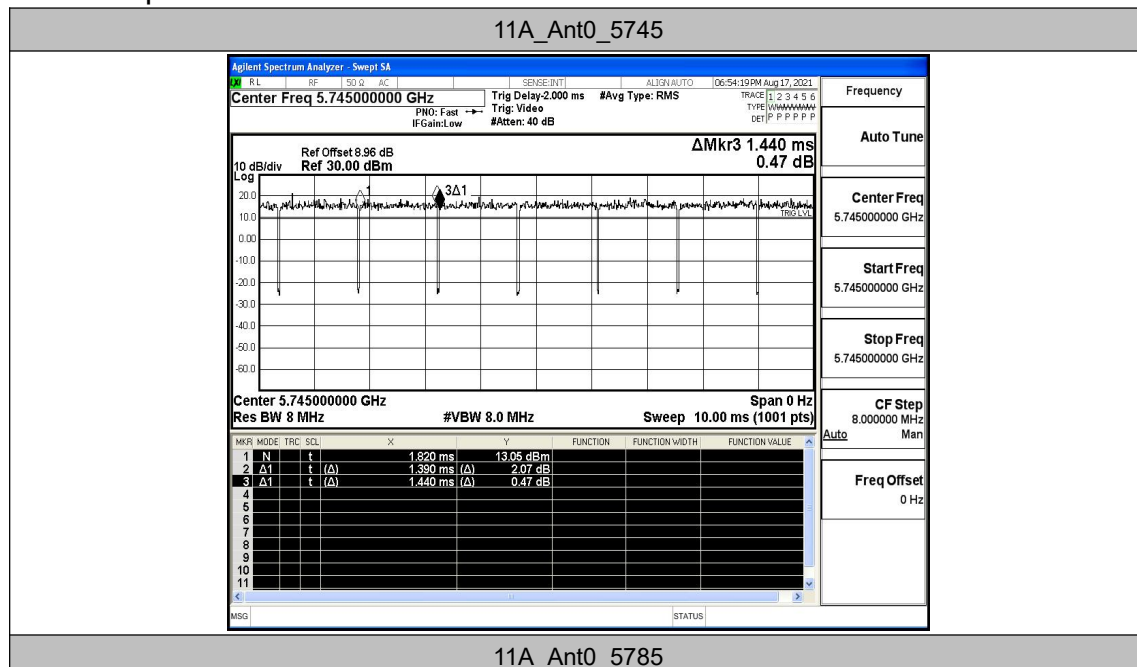
RF Test Data for 5.8G WIFI (Conducted Measurement)

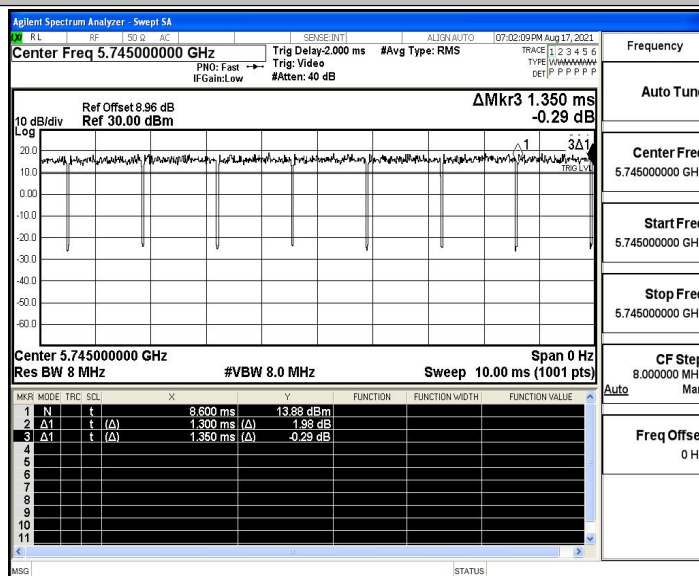
Product Name: Wireless USB Adapter

Test Model: PAU0D

Environmental Conditions

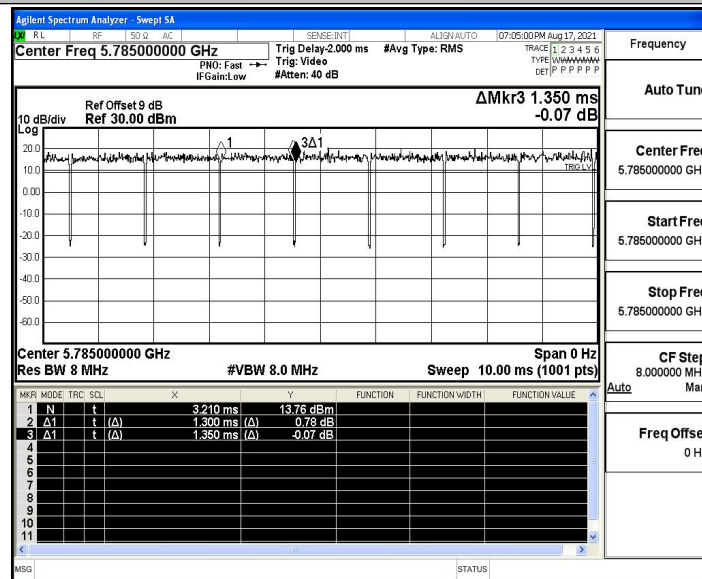
Temperature:	21.1° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan



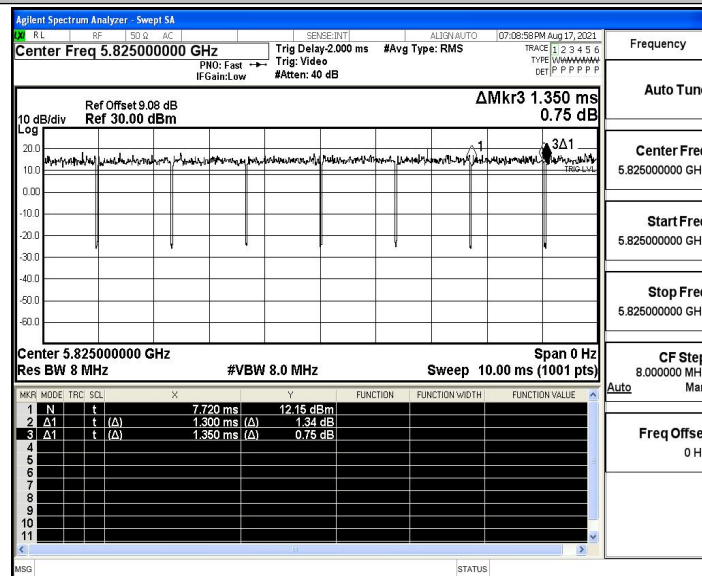




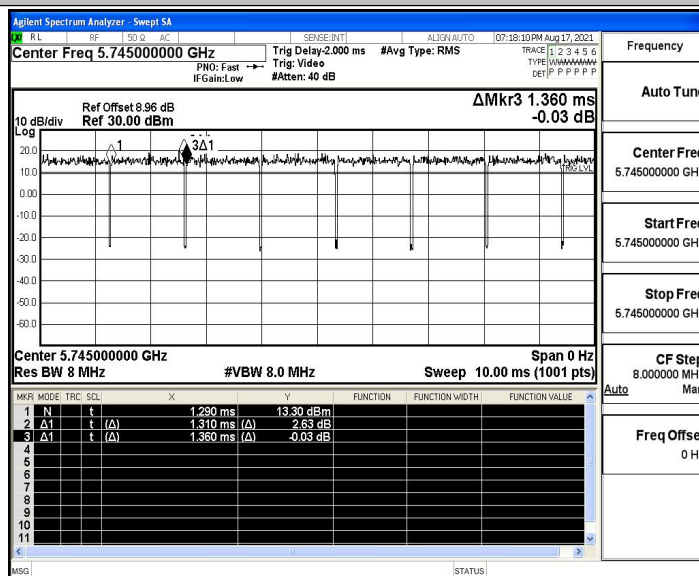
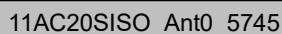
11N20SISO_Ant0_5785



11N20SISO_Ant0_5825

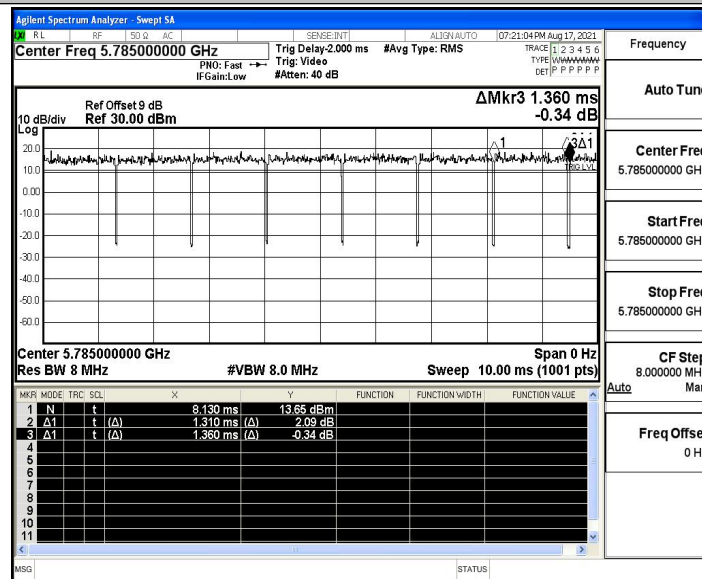


11N40SISO_Ant0_5755

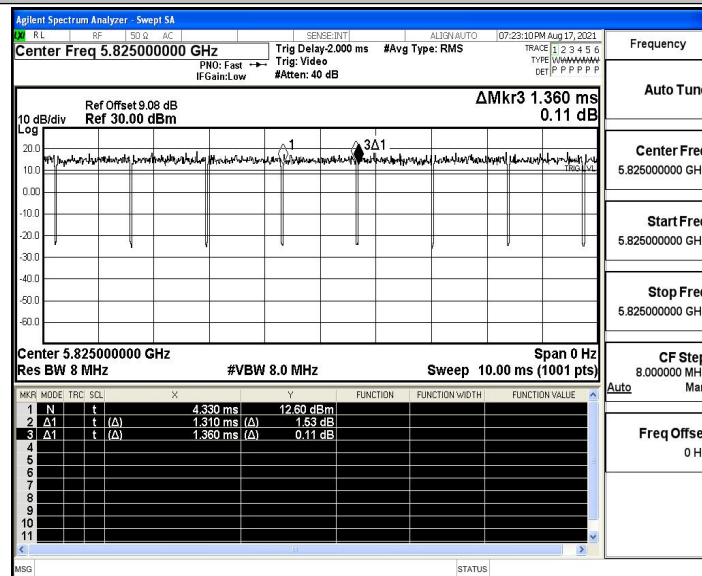




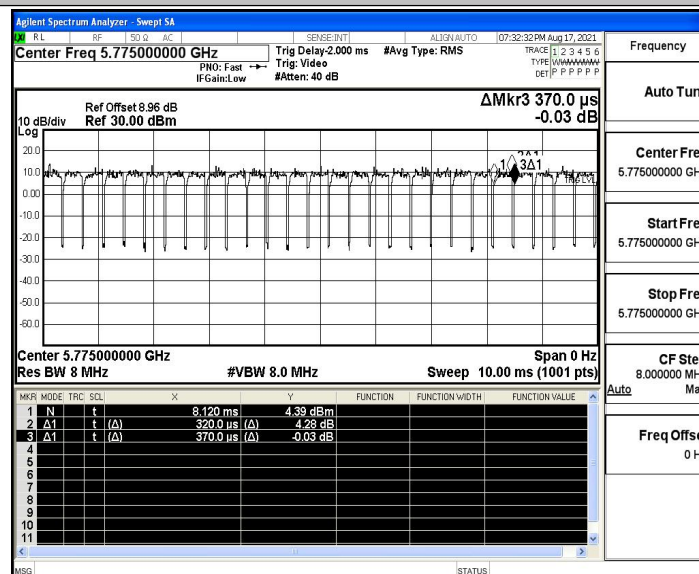
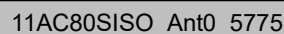
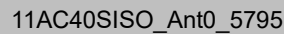
11AC20SISO_Ant0_5785



11AC20SISO_Ant0_5825



11AC40SISO_Ant0_5755





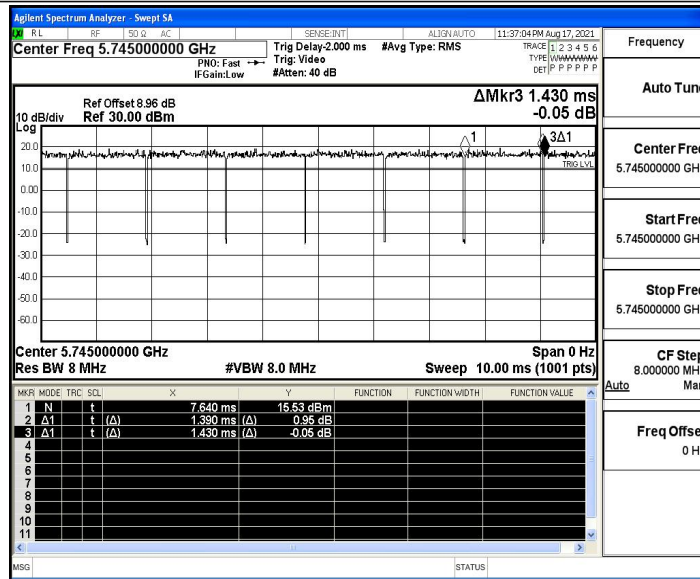
ANT1

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5745	1.39	1.43	97.20	---	PASS
		5785	1.39	1.43	97.20	---	PASS
		5825	1.39	1.43	97.20	---	PASS
11N20SISO	Ant1	5745	1.30	1.34	97.01	---	PASS
		5785	1.30	1.34	97.01	---	PASS
		5825	1.30	1.34	97.01	---	PASS
11N40SISO	Ant1	5755	0.64	0.68	94.12	---	PASS
		5795	0.64	0.68	94.12	---	PASS
11AC20SISO	Ant1	5745	1.30	1.34	97.01	---	PASS
		5785	1.30	1.34	97.01	---	PASS
		5825	1.30	1.34	97.01	---	PASS
11AC40SISO	Ant1	5755	0.64	0.68	94.12	---	PASS
		5795	0.64	0.68	94.12	---	PASS
11AC80SISO	Ant1	5775	0.32	0.37	86.49	---	PASS

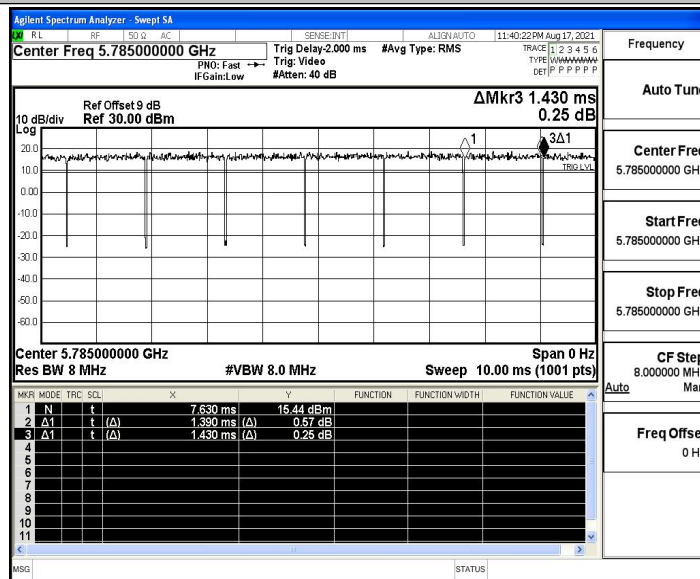


Test Graphs

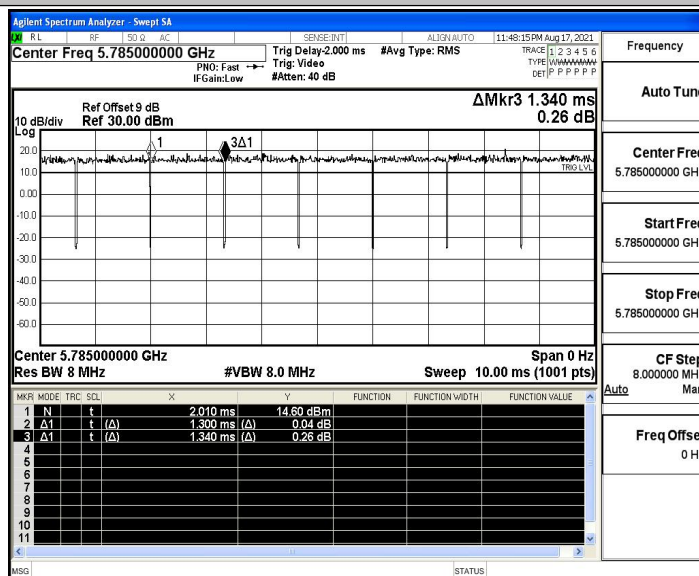
11A_Ant1_5745



11A_Ant1_5785

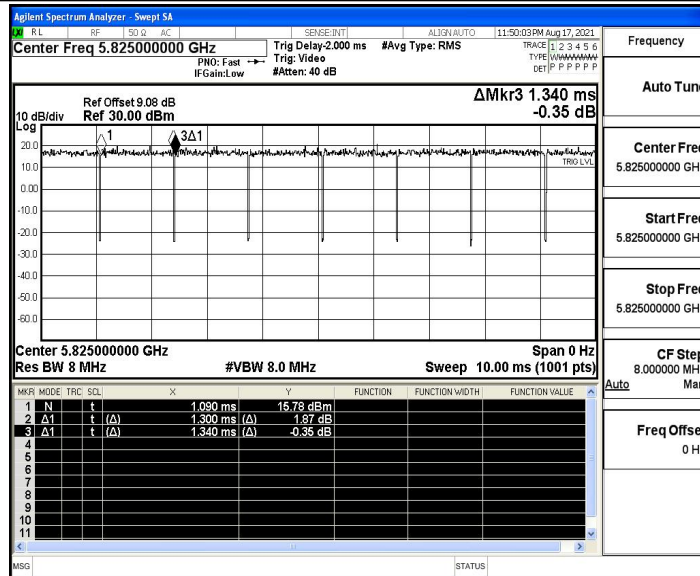


11A_Ant1_5825

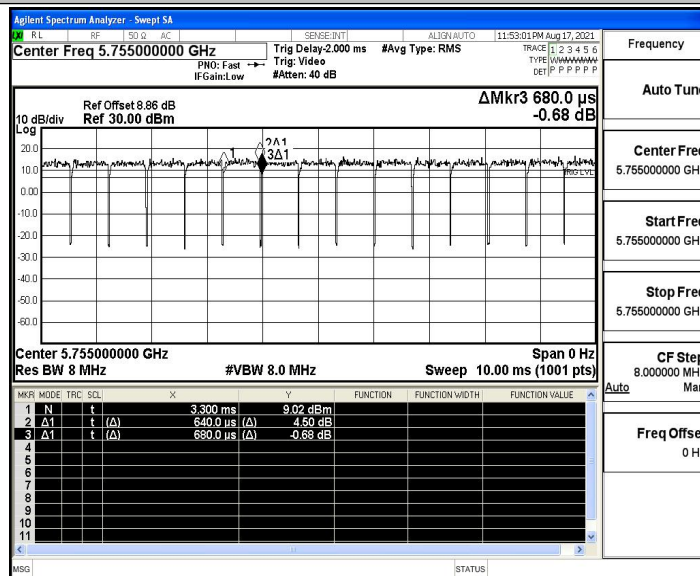




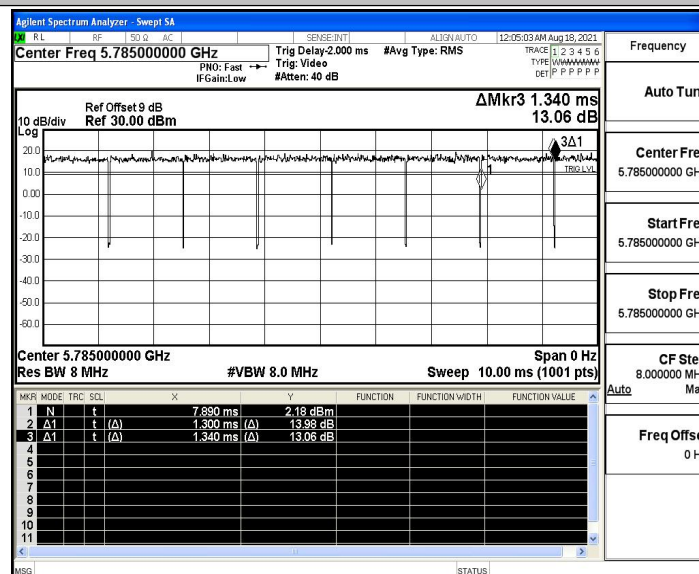
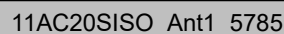
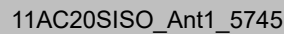
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

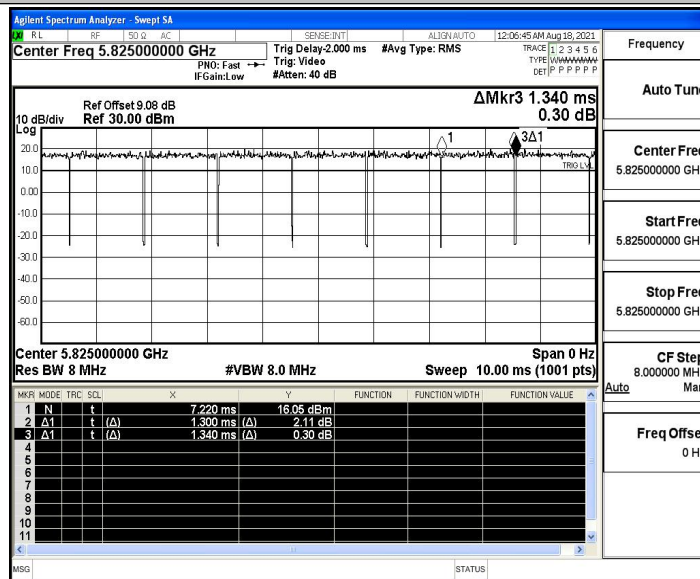


11N40SISO_Ant1_5795

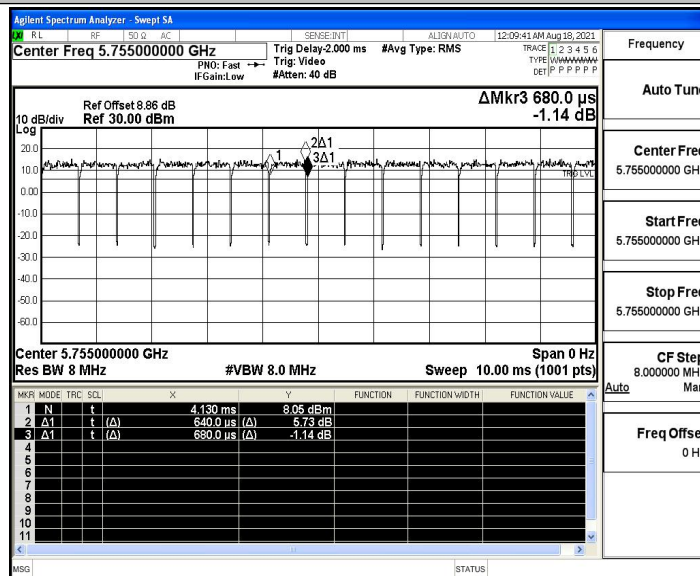




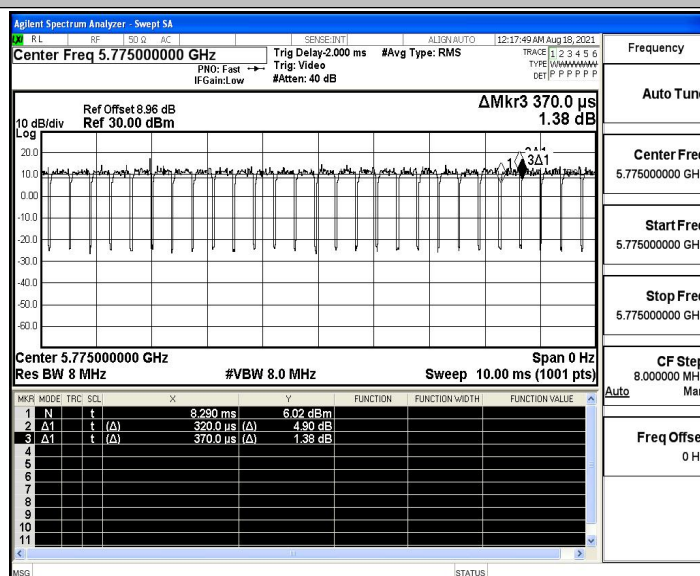
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





C.2 Maximum conducted output power

Test Result

ANT0

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant0	5745	11.09	≤30	PASS
		5785	10.92	≤30	PASS
		5825	10.32	≤30	PASS
11N20SISO	Ant0	5745	11.59	≤30	PASS
		5785	11.55	≤30	PASS
		5825	10.30	≤30	PASS
11N40SISO	Ant0	5755	10.80	≤30	PASS
		5795	10.96	≤30	PASS
11AC20SISO	Ant0	5745	11.00	≤30	PASS
		5785	10.92	≤30	PASS
		5825	10.23	≤30	PASS
11AC40SISO	Ant0	5755	11.34	≤30	PASS
		5795	10.98	≤30	PASS
11AC80SISO	Ant0	5775	11.04	≤30	PASS

ANT1

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	12.67	≤30	PASS
		5785	12.59	≤30	PASS
		5825	12.95	≤30	PASS
11N20SISO	Ant1	5745	12.74	≤30	PASS
		5785	12.46	≤30	PASS
		5825	12.88	≤30	PASS
11N40SISO	Ant1	5755	13.20	≤30	PASS
		5795	13.22	≤30	PASS
11AC20SISO	Ant1	5745	12.80	≤30	PASS
		5785	12.67	≤30	PASS
		5825	13.53	≤30	PASS
11AC40SISO	Ant1	5755	12.57	≤30	PASS
		5795	13.78	≤30	PASS
11AC80SISO	Ant1	5775	13.14	≤30	PASS



MIMO

Test Mode	Channel	Frequency (MHz)	ANT 0 AVG Conducted Power (dBm)	ANT 1 AVG Conducted Power (dBm)	MIMO AVG Conducted Power (dBm)	Limit (dBm)	Verdict
11N20	149	5745	11.59	12.74	15.21	30	Pass
	157	5785	11.55	12.46	15.04		Pass
	165	5825	10.30	12.88	14.79		Pass
11N40	151	5755	10.80	13.20	15.17	30	Pass
	159	5795	10.96	13.22	15.25		Pass
11AC20	149	5745	11.00	12.80	15.00	30	Pass
	157	5785	10.92	12.67	14.89		Pass
	165	5825	10.23	13.53	15.20		Pass
11AC40	151	5755	11.34	12.57	15.01	30	Pass
	159	5795	10.98	13.78	15.61		Pass
11AC80	155	5775	11.04	13.14	15.23	30	Pass



C.3 Maximum power spectral density

Test Result

ANT0

TestMode	Antenna	Channel	Result [dBm/MHz]	Total Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant0	5745	-1.76	-3.98	≤30	PASS
		5785	-1.99	-4.21	≤30	PASS
		5825	-2.35	-4.57	≤30	PASS
11N20SISO	Ant0	5745	-1.35	-3.57	≤30	PASS
		5785	-1.52	-3.74	≤30	PASS
		5825	-3.04	-5.26	≤30	PASS
11N40SISO	Ant0	5755	-5.3	-7.52	≤30	PASS
		5795	-5.36	-7.58	≤30	PASS
11AC20SISO	Ant0	5745	-2.14	-4.36	≤30	PASS
		5785	-2.44	-4.66	≤30	PASS
		5825	-2.87	-5.09	≤30	PASS
11AC40SISO	Ant0	5755	-4.93	-7.15	≤30	PASS
		5795	-5.09	-7.31	≤30	PASS
11AC80SISO	Ant0	5775	-8.02	-10.24	≤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.

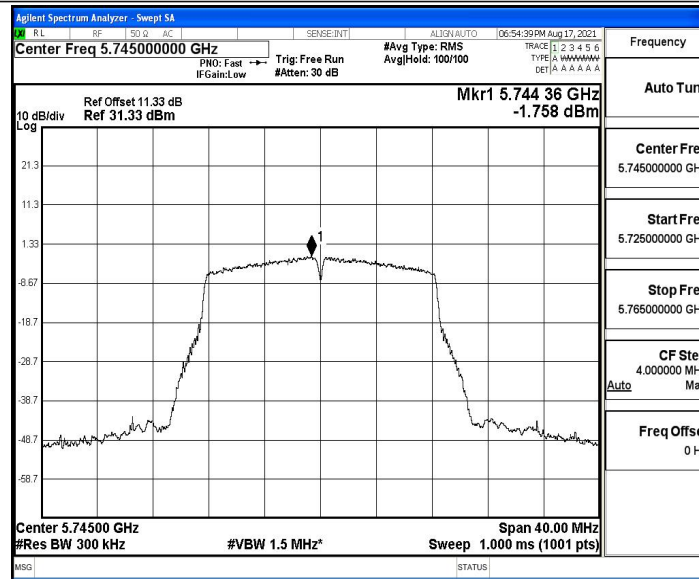
3. Exchange rate of RBW = $10 \cdot \log_{10}(300\text{KHz} / \text{RBW at measurement}) \approx -2.22[\text{dB}]$

where Reference bandwidth = 500 KHz

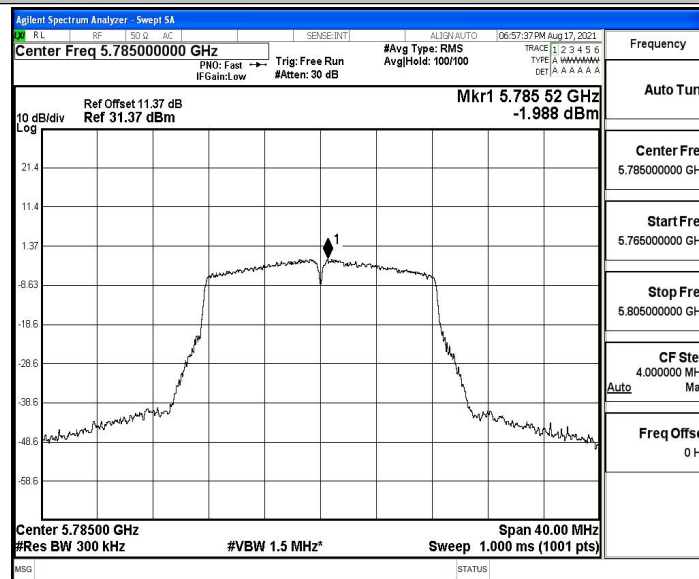


Test Graphs

11A_Ant0_5745



11A_Ant0_5785



11A_Ant0_5825