Appendix D

RF Test Data for 5.2G WLAN (Conducted Measurement)

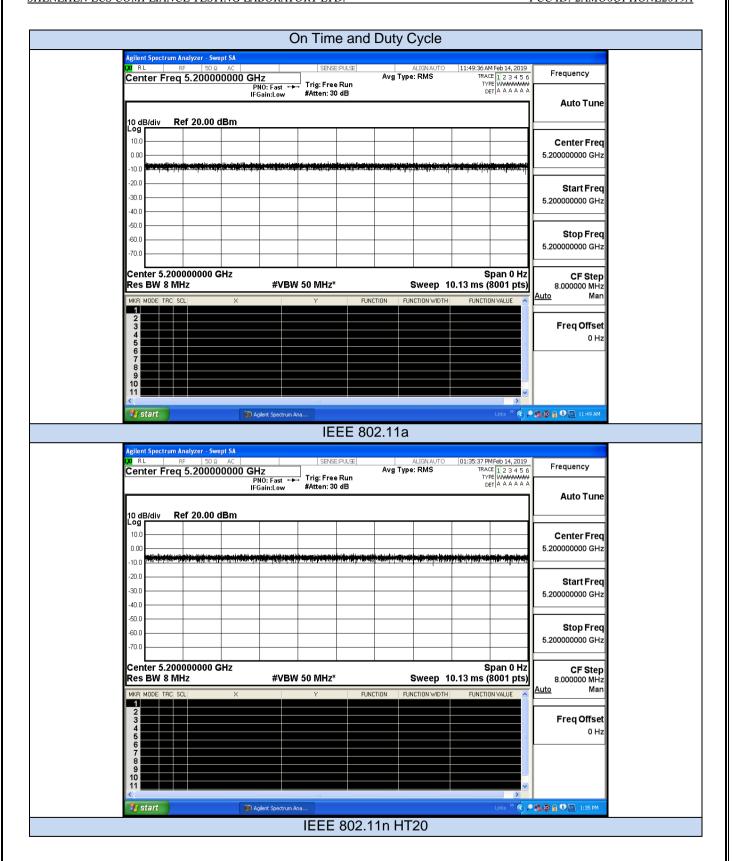
Product Name: 3-D VR Smartphone Trade Mark: Q PHONE Test Model: Qphone2019_A

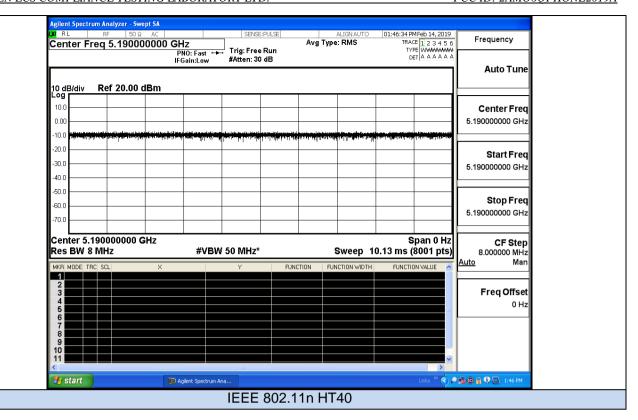
Environmental Conditions

Temperature:	22.8 ° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden.Zhuo

D.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)	
11A	5200	100	0.00	0.01	
11N20 SISO	5200	100	0.00	0.01	
11N40 SISO	5190	100	0.00	0.01	



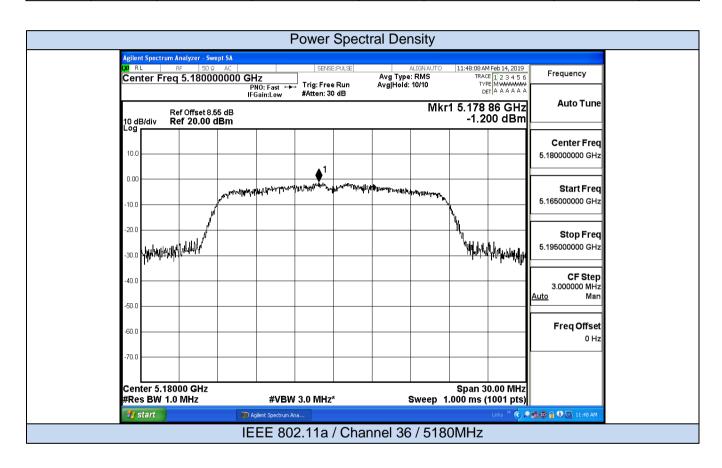


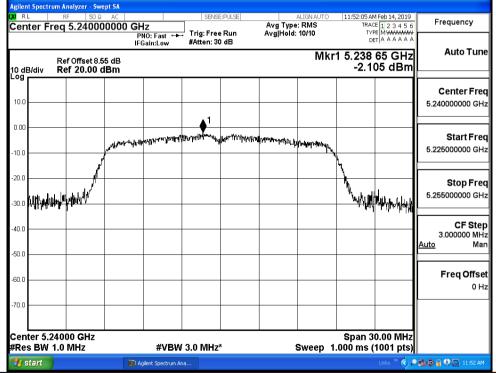
D.2 Maximum Conduct Output Power

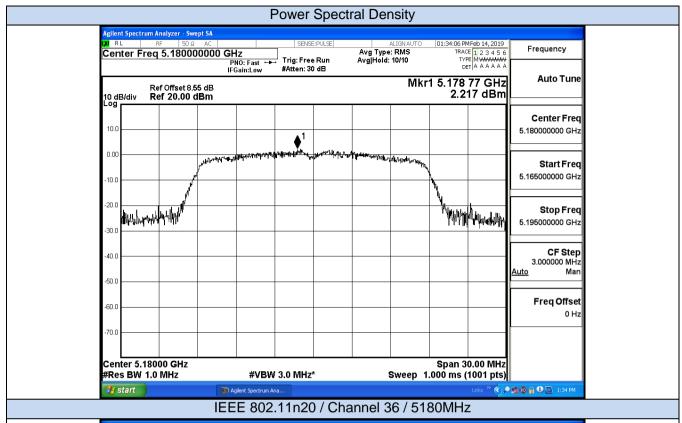
Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
	36	5180	8.72	0	8.72		Pass
11A	40	5200	8.33	0	8.33	24	Pass
-	48	5240	7.75	0	7.75		Pass
111100	36	5180	10.02	0	10.02		Pass
11N20 40	40	5200	9.55	0	9.55	24	Pass
3130	48	5240	9.17	0	9.17		Pass
11N40	38	5190	10.1	0	10.1	24	Pass
SISO	46	5230	9.49	0	9.49	24	Pass

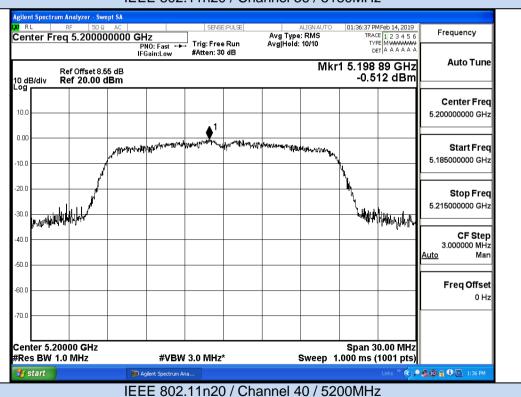
D.3 Power Spectral Density

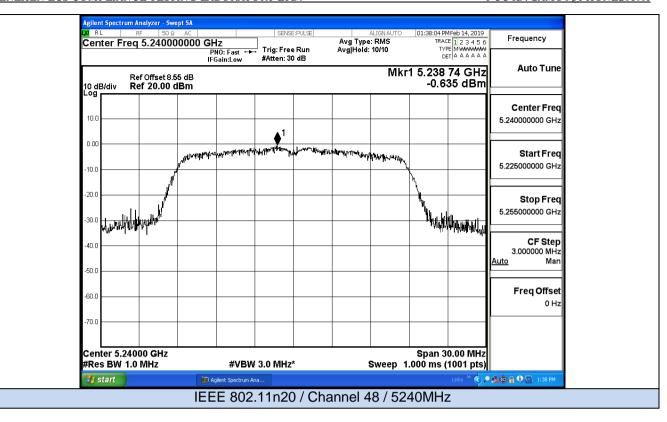
Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor(d B)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)	Verdict	
	36	5180	-1.20	0	-1.20	11		Pass
11A	40	5200	-1.74	0	-1.74		Pass	
	48	5240	-2.11	0	-2.11		Pass	
44100	36	5180	2.22	0	2.22		Pass	
11N20 SISO	40	5200	-0.51	0	-0.51	11	Pass	
3130	48	5240	-0.64	0	-0.64		Pass	
11N40	11N40 38	5190	-3.41	0	-3.41	11	Pass	
SISO	46	5230	-3.69	0	-3.69	''	Pass	

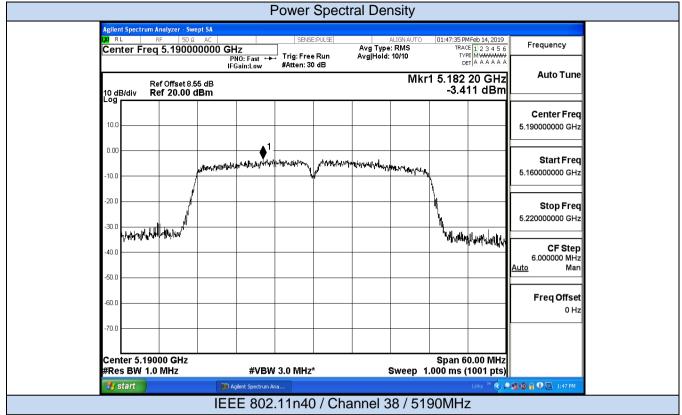


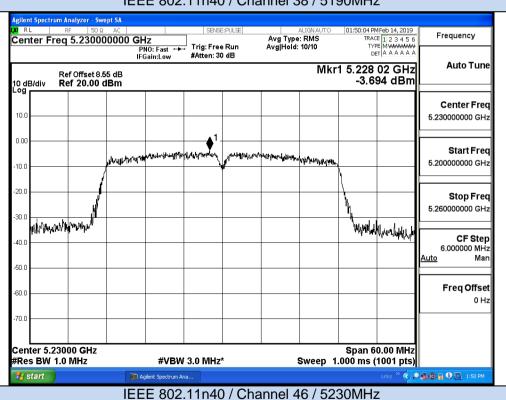






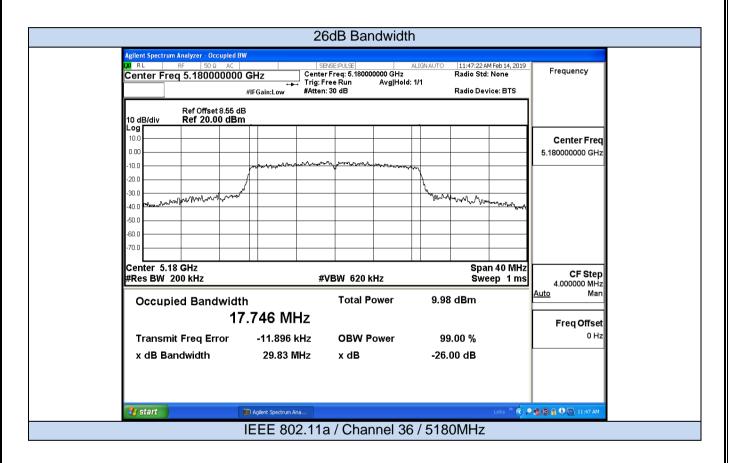


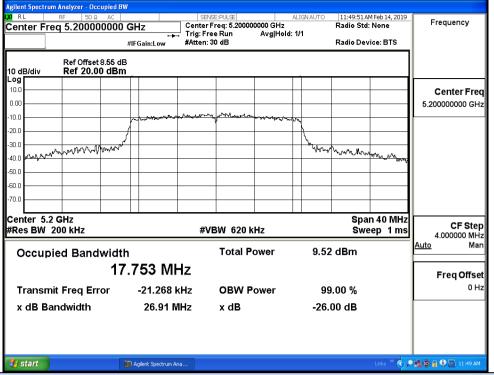




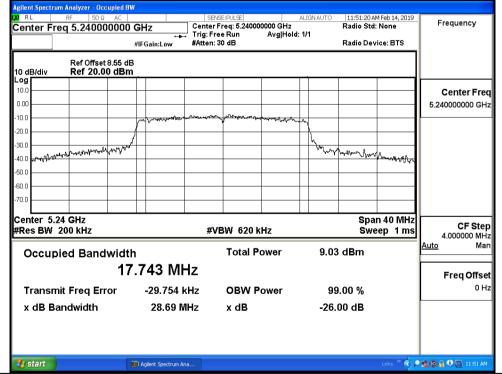
D.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
	36	5180	29.83		Pass
11A	40	5200	26.91	No Limit	Pass
	48	5240	28.69	1	Pass
11N20 SISO	36	5180	29.99		Pass
	40	5200	19.87	No Limit	Pass
	48	5240	19.93		Pass
11N40	38	5190	41.70	No Limit	Pass
SISO	46	5230	39.82		Pass

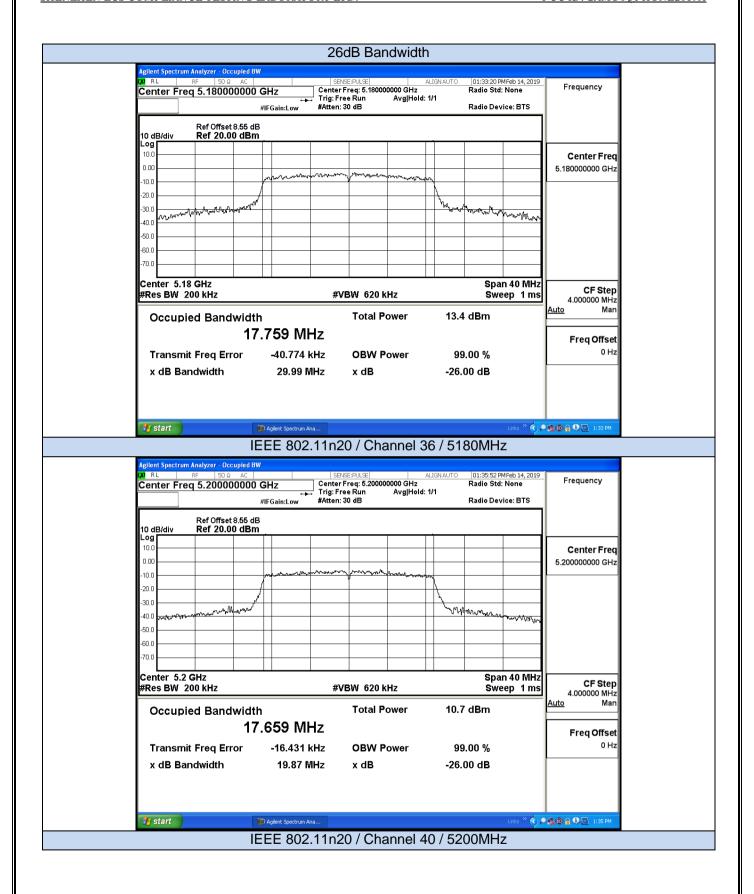


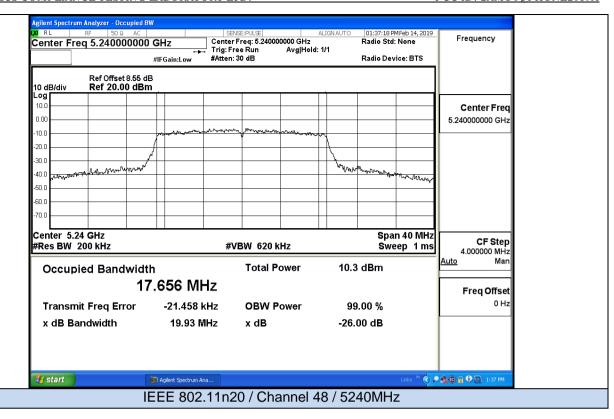


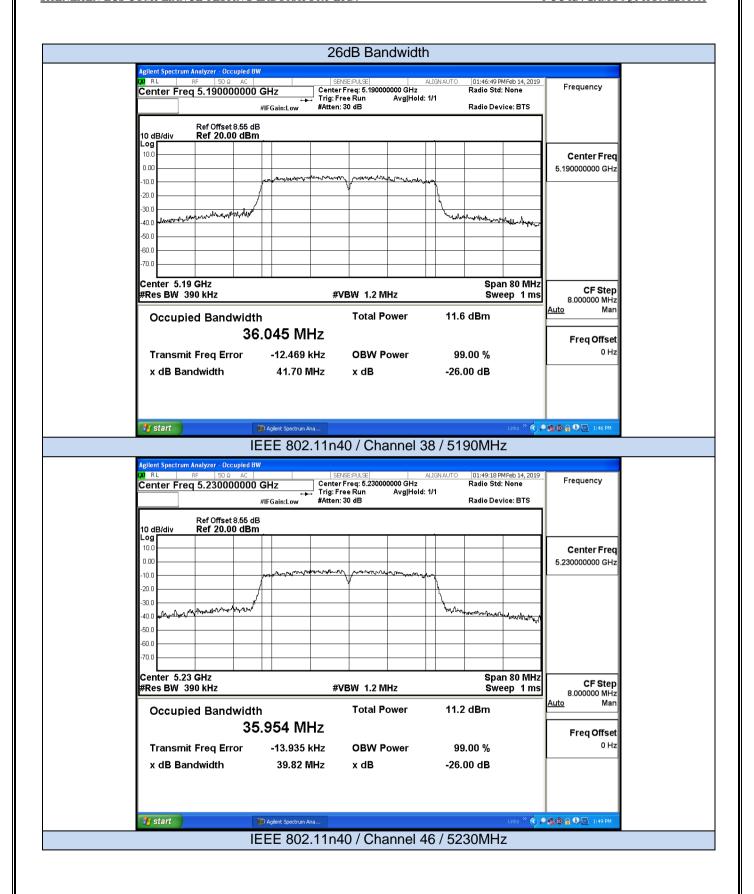
IEEE 802.11a / Channel 40 / 5200MHz



IEEE 802.11a / Channel 48 / 5240MHz

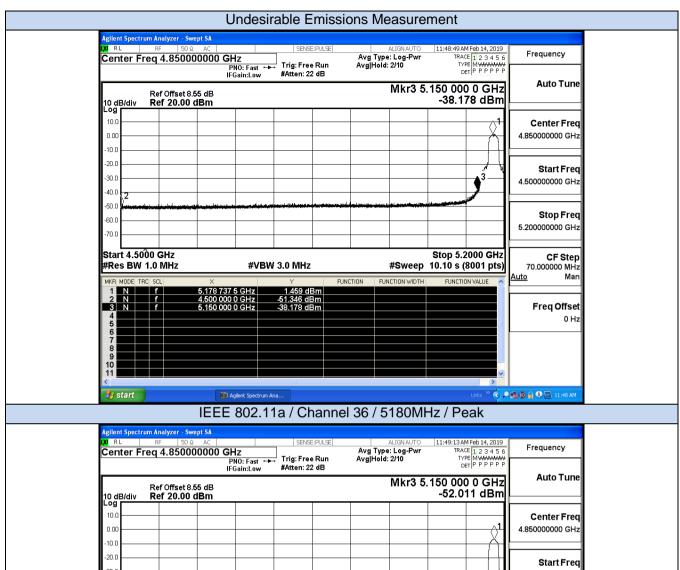






D.5 Undesirable Emissions Measurement

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
		4500.0	-51.35	2.00	0	45.88	Peak	68.20	Pass
	36	4500.0	-60.53	2.00	0	36.70	Average	54.00	Pass
	36	5150.0	-38.18	2.00	0	59.05	Peak	68.20	Pass
11A		5150.0	-52.01	2.00	0	45.22	Average	54.00	Pass
IIA		5350.0	-50.58	2.00	0	46.65	Peak	68.20	Pass
	48	5350.0	-60.53	2.00	0	36.69	Average	54.00	Pass
	40	5460.0	-50.71	2.00	0	46.52	Peak	68.20	Pass
		5460.0	-60.87	2.00	0	36.36	Average	54.00	Pass
		4500.0	-50.61	2.00	0	46.62	Peak	68.20	Pass
	36	4500.0	-60.47	2.00	0	36.76	Average	54.00	Pass
		5150.0	-36.83	2.00	0	60.39	Peak	68.20	Pass
11N20		5150.0	-49.19	2.00	0	48.04	Average	54.00	Pass
SISO	48	5350.0	-49.63	2.00	0	47.60	Peak	68.20	Pass
		5350.0	-60.32	2.00	0	36.91	Average	54.00	Pass
		5460.0	-49.65	2.00	0	47.58	Peak	68.20	Pass
		5460.0	-60.74	2.00	0	36.49	Average	54.00	Pass
		4500.0	-50.86	2.00	0	46.37	Peak	68.20	Pass
	38	4500.0	-60.51	2.00	0	36.72	Average	54.00	Pass
	38	5150.0	-32.98	2.00	0	64.25	Peak	68.20	Pass
11N40		5150.0	-44.17	2.00	0	53.06	Average	54.00	Pass
SISO		5350.0	-50.42	2.00	0	46.81	Peak	68.20	Pass
	46	5350.0	-60.08	2.00	0	37.14	Average	54.00	Pass
	40	5460.0	-50.99	2.00	0	46.24	Peak	68.20	Pass
		5460.0	-60.54	2.00	0	36.68	Average	54.00	Pass



-30.0 4.500000000 GHz -40.0 -50.0 Stop Freq -60.0 5.200000000 GHz 70 C Start 4.5000 GHz Stop 5.2000 GHz CF Step #Res BW 1.0 MHz **#VBW 10 Hz** #Sweep 10.10 s (8001 pts) 70.000000 MHz <u>Auto</u> FUNCTION FUNCTION WIDTH Freq Offset 0 Hz 🌎 🔑 🍢 🔞 🔒 🗣 🔃 11:49 AM # start

