Appendix C

RF Test Data for 5.8G WLAN (Conducted Measurement)

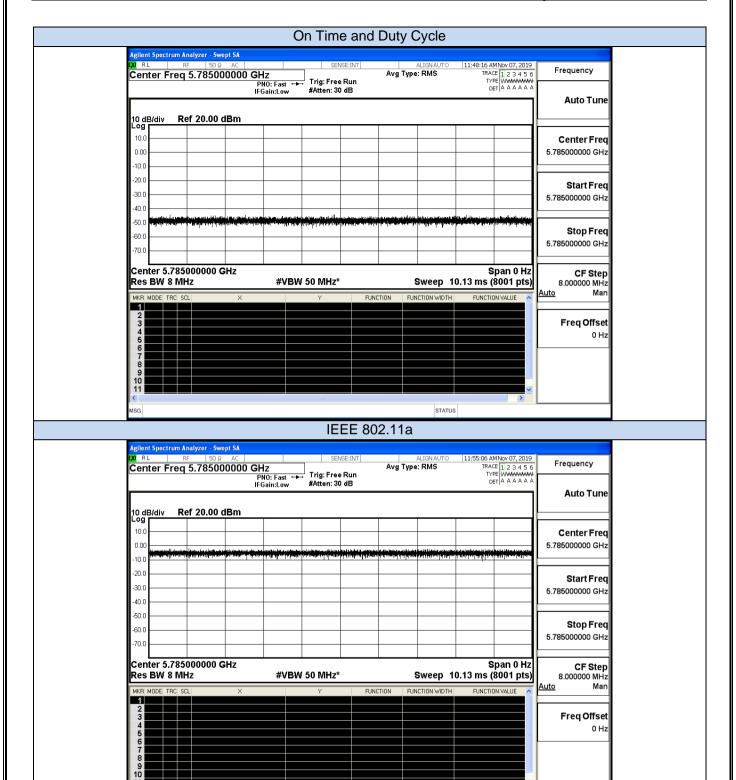
Product Name: Portable 4G LTE Router Test Model: GL-E750C6

Environmental Conditions

	in the children of the children
Temperature:	23.4°C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Wang.Chuang

C.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5785	100	0.00	0.01
11N20 SISO	5785	100	0.00	0.01
11N40 SISO	5755	100	0.00	0.01
11AC20 SISO	5785	100	0.00	0.01
11AC40 SISO	5755	100	0.00	0.01
11AC80 SISO	5775	100	0.00	0.01



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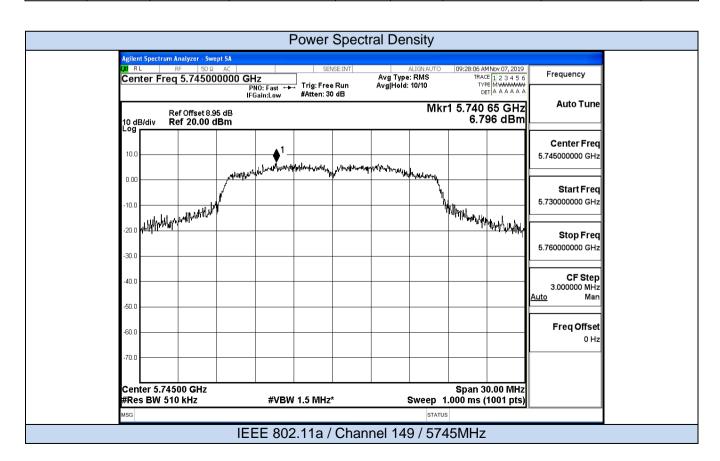
IEEE 802.11n HT20

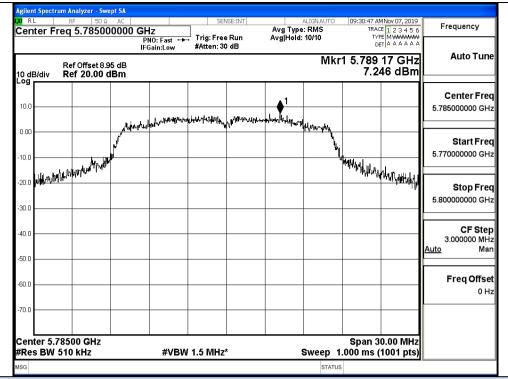
C.2 Maximum Conduct Output Power

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
	149	5745	18.37	0	18.37		Pass
11A	157	5785	19.06	0	19.06	30	Pass
	165	5825	19.13	0	19.13		Pass
11N20	149	5745	18.34	0	18.34		Pass
SISO	157	5785	18.25	0	18.25	30	Pass
3130	165	5825	18.95	0	18.95		Pass
11N40	151	5755	18.57	0	18.57	30	Pass
SISO	159	5795	19.53	0	19.53		Pass
11AC20	149	5745	19.55	0	19.55		Pass
SISO	157	5785	18.65	0	18.65	30	Pass
3130	165	5825	19.55	0	19.55		Pass
11AC40	151	5755	18.89	0	18.89	- 30	Pass
SISO	159	5795	19.67	0	19.67	30	Pass
11AC80 SISO	155	5775	19.57	0	19.57	30	Pass

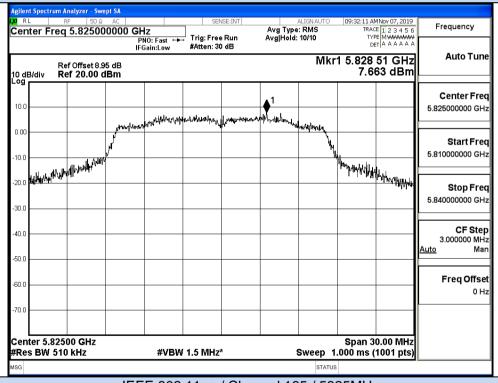
C.3 Power Spectral Density

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/500KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
	149	5745	6.80	0	0	6.80		Pass
11A	157	5785	7.25	0	0	7.25	30	Pass
	165	5825	7.66	0	0	7.66		Pass
	149	5745	6.62	0	0	6.62		Pass
11N20	157	5785	6.37	0	0	6.37	30	Pass
SISO	165	5825	7.37	0	0	7.37		Pass
11N40	151	5755	3.72	0	0	3.72	30	Pass
SISO	159	5795	3.86	0	0	3.86	30	Pass
	149	5745	7.13	0	0	7.13		Pass
11AC20	157	5785	6.24	0	0	6.24	30	Pass
SISO	165	5825	6.77	0	0	6.77		Pass
11AC40	151	5755	3.24	0	0	3.24	30	Pass
SISO	159	5795	4.15	0	0	4.15		Pass
11AC80 SISO	155	5775	1.21	0	0	1.21	30	Pass

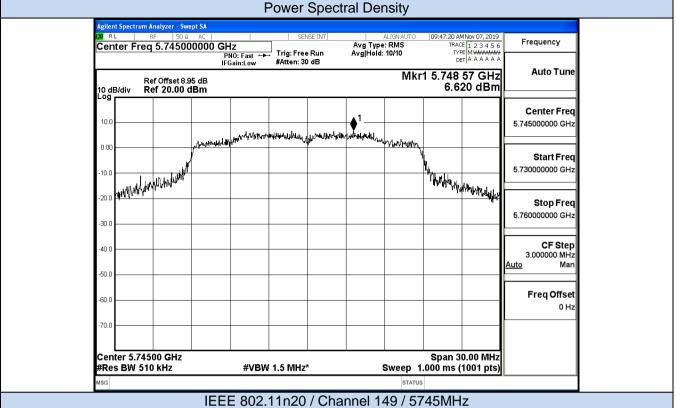




IEEE 802.11na / Channel 157 / 5785MHz



IEEE 802.11na / Channel 165 / 5825MHz

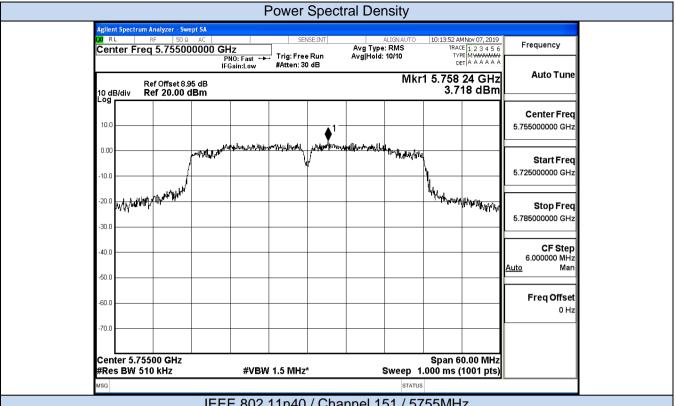


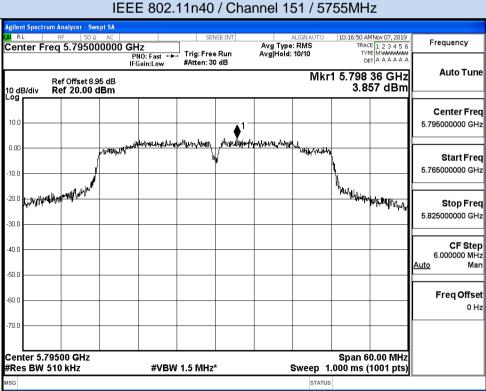
Agilent Spectrum Analyzer - Swept SA Frequency Center Freq 5.785000000 GHz PNO: Fast → Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 5.787 829 GHz **Auto Tune** Ref Offset 8.95 dB Ref 20.00 dBm 10 dB/div Log 6.365 dBm Center Freq 5.785000000 GHz 0.00 Start Freq 5.771130000 GHz Marinagh Malakan WARANTA WARANTA -10.0 -20.0 Stop Freq 5.798870000 GHz CF Step -40.0 2.774000 MHz -50.0 Freq Offset -60.0 0 Hz Span 27.74 MHz Sweep 1.000 ms (1001 pts) Center 5.78500 GHz #Res BW 510 kHz #VBW 1.5 MHz*

IEEE 802.11n20 / Channel 157 / 5785MHz

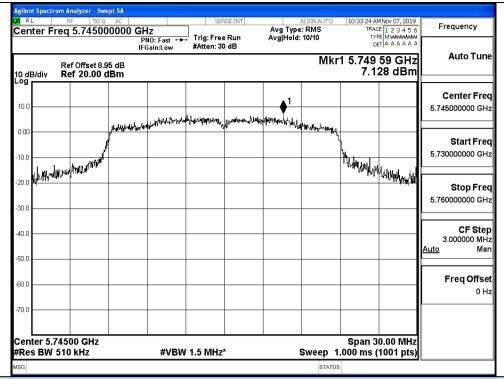
#VBW 1.5 MHz*

Center 5.82500 GHz #Res BW 510 kHz Span 30.00 MHz Sweep 1.000 ms (1001 pts)

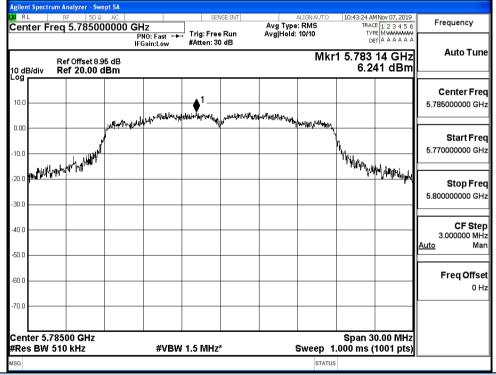




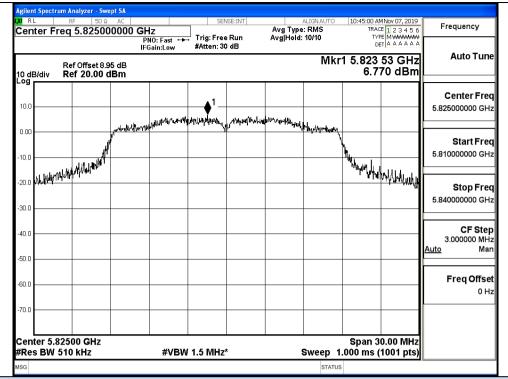
IEEE 802.11n40 / Channel 159 / 5795MHz



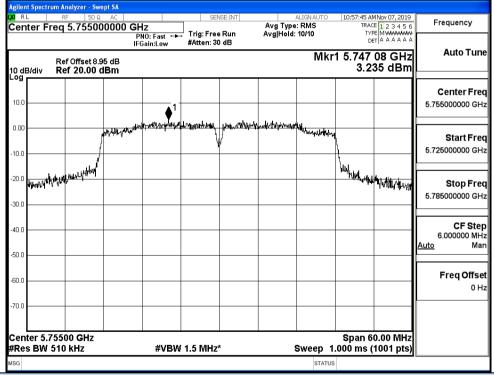
IEEE 802.11ac20 / Channel 149 / 5745MHz



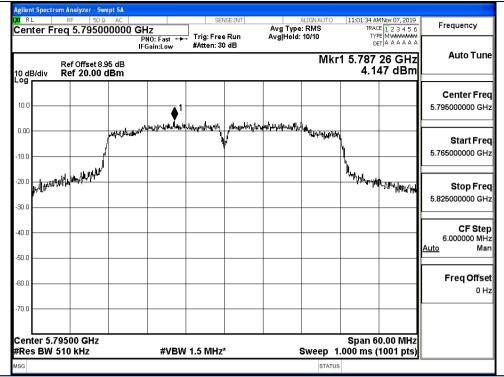
IEEE 802.11ac20 / Channel 157 / 5785MHz



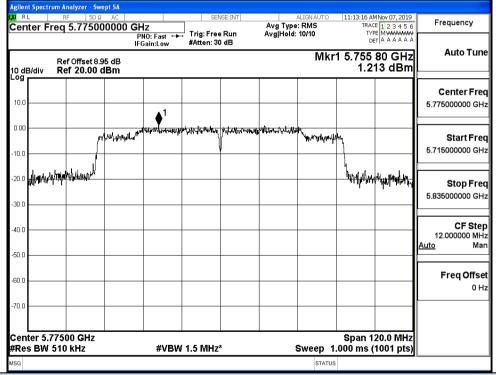
IEEE 802.11ac20 / Channel 165 / 5825MHz



IEEE 802.11ac40 / Channel 151 / 5755MHz



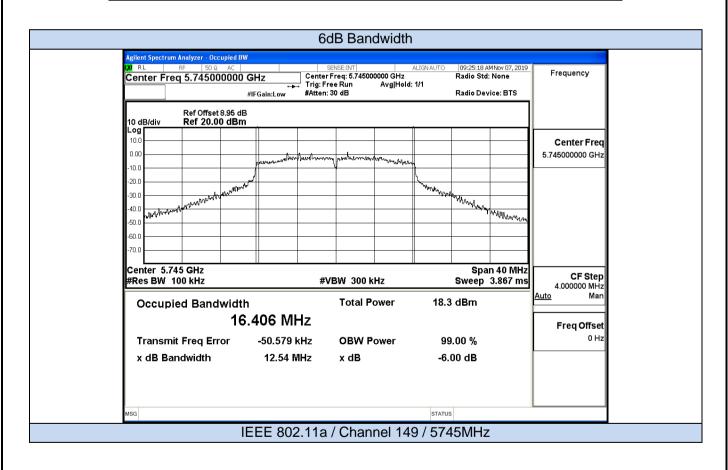
IEEE 802.11ac40 / Channel 159 / 5795MHz

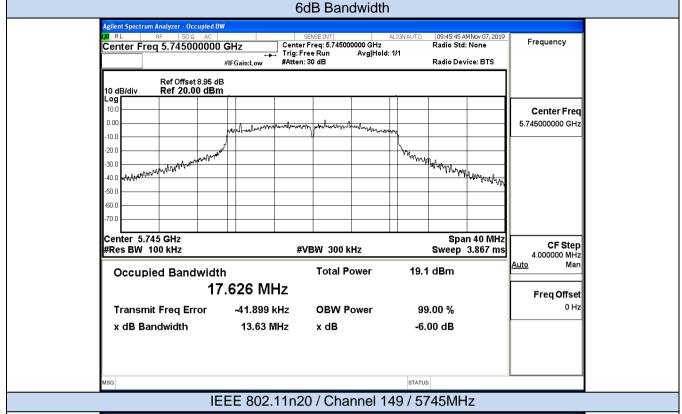


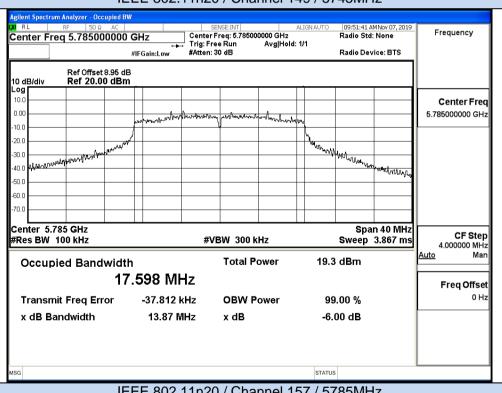
IEEE 802.11ac80 / Channel 155/ 5775MHz

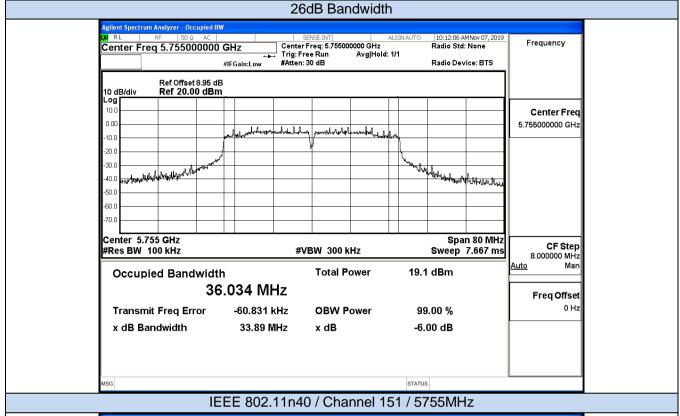
C.4 6dB and 99% Occupied Bandwidth

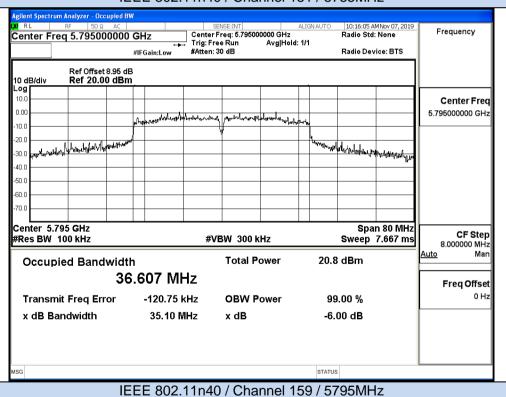
Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
	149	5745	12.54		Pass
11A	157	5785	12.88	>=0.5	Pass
	165	5825	15.12]	Pass
11N20	149	5745	13.63		Pass
SISO	157	5785	13.87	>=0.5	Pass
3130	165	5825	13.94]	Pass
11N40	151	5755	33.89	>=0.5	Pass
SISO	159	5795	35.10	>=0.5	Pass
11AC20S	149	5745	14.07	>=0.5	Pass
ISO	157	5785	15.09	>=0.5	Pass
130	165	5825	14.40]	Pass
11AC40S	151	5755	35.11	>=0.5	Pass
ISO	159	5795	35.10		Pass
11AC80S ISO	155	5775	75.38	>=0.5	Pass











IEEE 802.11ac40 / Channel 151 / 5755MHz

Total Power

OBW Power

x dB

18.6 dBm

99.00 %

-6.00 dB

STATUS

Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

35.983 MHz

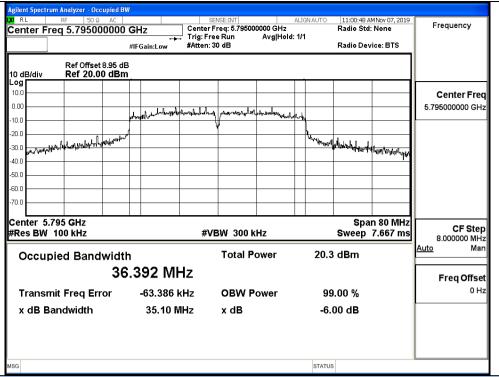
-47.740 kHz

35.11 MHz

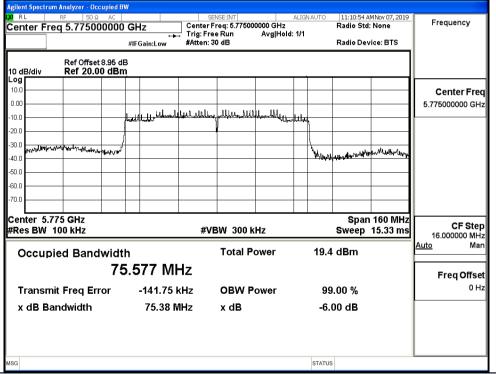
Mar

Freq Offset 0 Hz

<u>Auto</u>



IEEE 802.11ac40 / Channel 159 / 5795MHz



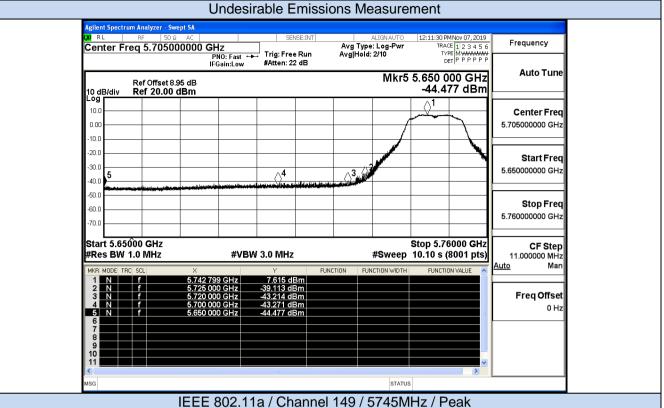
IEEE 802.11ac80 / Channel 155 / 5775MHz

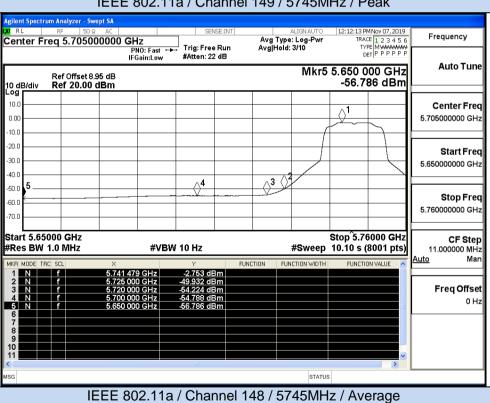
C.5 Undesirable Emissions Measurement

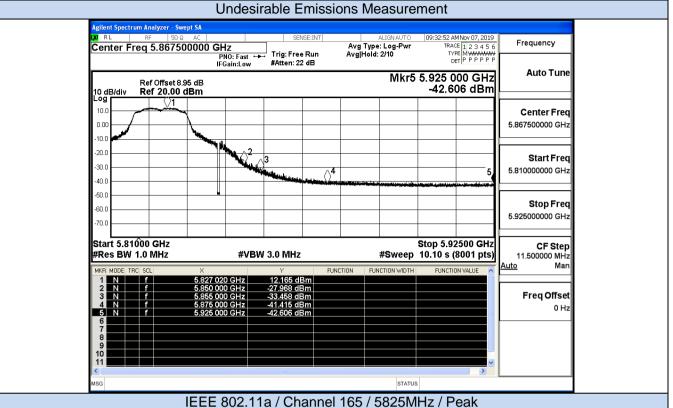
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
		5650.0	-44.48	2.75	-41.73	Peak	-27.0	Pass
		5650.0	-56.79	2.75	-54.04	Average	-27.0	Pass
		5700.0	-43.27	2.75	-40.52	Peak	10	Pass
		5700.0	-54.79	2.75	-52.04	Average	10	Pass
	149	5720.0	-43.21	2.75	-40.46	Peak	15.6	Pass
		5720.0	-54.22	2.75	-51.47	Average	15.6	Pass
		5725.0	-39.11	2.75	-36.36	Peak	27.0	Pass
		5725.0	-49.93	2.75	-47.18	Average	27.0	Pass
11A		5850.0	-27.97	2.75	-25.22	Peak	27.0	Pass
		5850.0	-43.66	2.75	-40.91	Average	27.0	Pass
		5855.0	-33.46	2.75	-30.71	Peak	15.6	Pass
		5855.0	-47.95	2.75	-45.20	Average	15.6	Pass
	165	5875.0	-41.42	2.75	-38.67	Peak	10	Pass
		5875.0	-53.59	2.75	-50.84	Average	10	Pass
		5925.0	-42.61	2.75	-39.86	Peak	-27.0	Pass
		5925.0	-53.69	2.75	-50.94	Average	-27.0	Pass
	149	5650.0	-45.11	2.75	-42.36	Peak	-27.0	Pass
		5650.0	-56.45	2.75	-53.70	Average	-27.0	Pass
		5700.0	-41.51	2.75	-38.76	Peak	10	Pass
		5700.0	-51.76	2.75	-49.01	Average	10	Pass
		5720.0	-37.67	2.75	-34.92	Peak	15.6	Pass
		5720.0	-54.22	2.75	-51.47	Average	15.6	Pass
		5725.0	-27.86	2.75	-25.11	Peak	27.0	Pass
11N20		5725.0	-45.51	2.75	-42.76	Average	27.0	Pass
SISO		5850.0	-29.86	2.75	-27.11	Peak	27.0	Pass
		5850.0	-48.36	2.75	-45.61	Average	27.0	Pass
		5855.0	-31.91	2.75	-29.16	Peak	15.6	Pass
	4.5-5	5855.0	-50.34	2.75	-47.59	Average	15.6	Pass
	165	5875.0	-37.54	2.75	-34.79	Peak	10	Pass
		5875.0	-53.19	2.75	-50.44	Average	10	Pass
		5925.0	-42.80	2.75	-40.05	Peak	-27.0	Pass
		5925.0	-54.05	2.75	-51.30	Average	-27.0	Pass

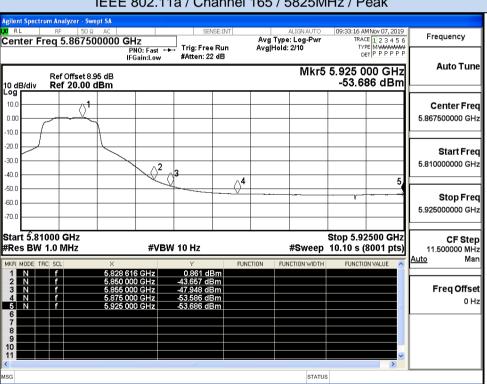
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
		5650.0	-44.86	2.75	-42.11	Peak	-27.0	Pass
		5650.0	-56.99	2.75	-54.24	Average	-27.0	Pass
		5700.0	-39.76	2.75	-37.01	Peak	10	Pass
		5700.0	-53.07	2.75	-50.32	Average	10	Pass
	151	5720.0	-33.84	2.75	-31.09	Peak	15.6	Pass
		5720.0	-46.36	2.75	-43.61	Average	15.6	Pass
		5725.0	-32.92	2.75	-30.17	Peak	27.0	Pass
11N40		5725.0	-44.72	2.75	-41.97	Average	27.0	Pass
SISO		5850.0	-35.16	2.75	-32.41	Peak	27.0	Pass
		5850.0	-47.45	2.75	-44.70	Average	27.0	Pass
		5855.0	-36.79	2.75	-34.04	Peak	15.6	Pass
		5855.0	-49.11	2.75	-46.36	Average	15.6	Pass
	159	5875.0	-41.04	2.75	-38.29	Peak	10	Pass
		5875.0	-52.91	2.75	-50.16	Average	10	Pass
		5925.0	-43.16	2.75	-40.41	Peak	-27.0	Pass
		5925.0	-53.94	2.75	-51.19	Average	-27.0	Pass
	149	5650.0	-45.41	2.75	-42.66	Peak	-27.0	Pass
		5650.0	-57.31	2.75	-54.56	Average	-27.0	Pass
		5700.0	-42.68	2.75	-39.93	Peak	10	Pass
		5700.0	-54.03	2.75	-51.28	Average	10	Pass
		5720.0	-39.76	2.75	-37.01	Peak	15.6	Pass
		5720.0	-55.30	2.75	-52.55	Average	15.6	Pass
		5725.0	-31.15	2.75	-28.40	Peak	27.0	Pass
11AC2		5725.0	-48.68	2.75	-45.93	Average	27.0	Pass
0		5850.0	-40.46	2.75	-37.71	Peak	27.0	Pass
SISO		5850.0	-53.61	2.75	-50.86	Average	27.0	Pass
		5855.0	-41.22	2.75	-38.47	Peak	15.6	Pass
		5855.0	-54.57	2.75	-51.82	Average	15.6	Pass
	165	5875.0	-44.65	2.75	-41.90	Peak	10	Pass
		5875.0	-56.08	2.75	-53.33	Average	10	Pass
		5925.0	-45.11	2.75	-42.36	Peak	-27.0	Pass
		5925.0	-56.37	2.75	-53.62	Average	-27.0	Pass
		5650.0	-44.97	2.75	-42.22	Peak	-27.0	Pass
		5650.0	-56.83	2.75	-54.08	Average	-27.0	Pass
11AC4		5700.0	-41.48	2.75	-34.00	Peak	10	Pass
0	151	5700.0	-53.15	2.75	-50.40	Average	10	Pass
SISO		5720.0	-33.15	2.75	-30.40	Peak	15.6	Pass
		5720.0	-32.93	2.75	-43.25	Average	15.6	Pass

<u>SHENZHE</u>	ENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.				FCC ID: 2AFIW-E750C	6 Repor	t No.: LCS1910)11048AED100
		5725.0	-31.22	2.75	-28.47	Peak	27.0	Pass
		5725.0	-44.34	2.75	-41.59	Average	27.0	Pass
		5850.0	-34.26	2.75	-31.51	Peak	27.0	Pass
		5850.0	-47.75	2.75	-45.00	Average	27.0	Pass
		5855.0	-36.39	2.75	-33.64	Peak	15.6	Pass
		5855.0	-49.30	2.75	-46.55	Average	15.6	Pass
	159	5875.0	-41.07	2.75	-38.32	Peak	10	Pass
		5875.0	-52.94	2.75	-50.19	Average	10	Pass
		5925.0	-42.91	2.75	-40.16	Peak	-27.0	Pass
		5925.0	-54.14	2.75	-51.39	Average	-27.0	Pass
		5725.0	-37.28	2.75	-34.53	Peak	27.0	Pass
		5720.0	-39.14	2.75	-36.39	Peak	15.6	Pass
		5700.0	-45.02	2.75	-42.27	Peak	10	Pass
		5650.0	-46.15	2.75	-43.40	Peak	-27.0	Pass
		5725.0	-50.27	2.75	-47.52	Average	27.0	Pass
		5720.0	-51.77	2.75	-49.02	Average	15.6	Pass
		5700.0	-55.92	2.75	-53.17	Average	10	Pass
11AC8		5650.0	-57.51	2.75	-54.76	Average	-27.0	Pass
0	155	5850.0	-37.28	2.75	-34.53	Peak	27.0	Pass
SISO		5855.0	-39.14	2.75	-36.39	Peak	15.6	Pass
		5875.0	-45.02	2.75	-42.27	Peak	10	Pass
		5925.0	-46.15	2.75	-43.40	Peak	-27.0	Pass
		5850.0	-50.27	2.75	-47.52	Average	27.0	Pass
		5855.0	-51.77	2.75	-49.02	Average	15.6	Pass
		5875.0	-55.92	2.75	-53.17	Average	10	Pass
		5925.0	-57.51	2.75	-54.76	Average	-27.0	Pass

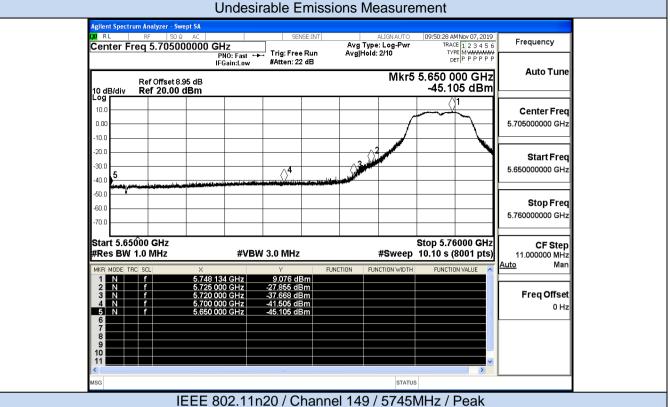


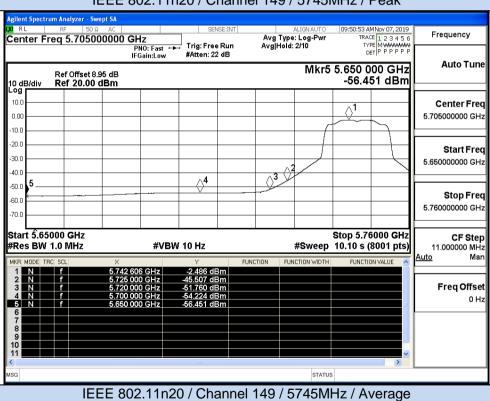


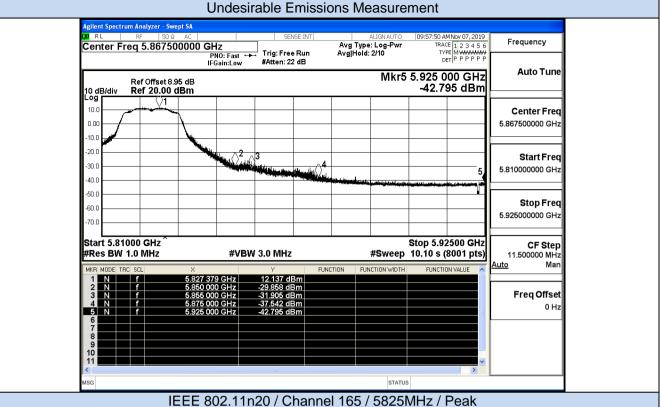


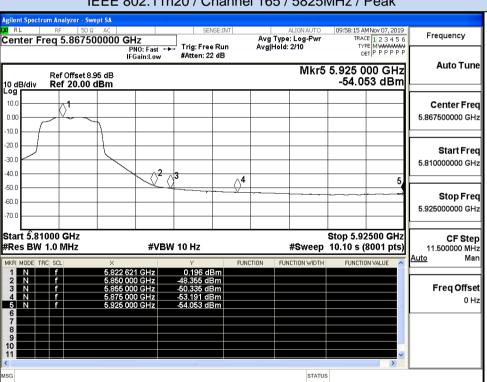


IEEE 802.11a / Channel 165 / 5825MHz / Average

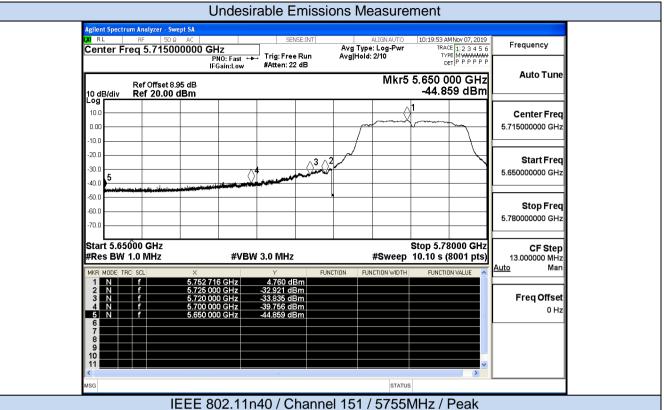


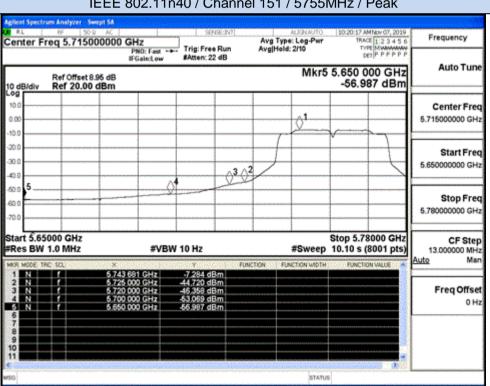






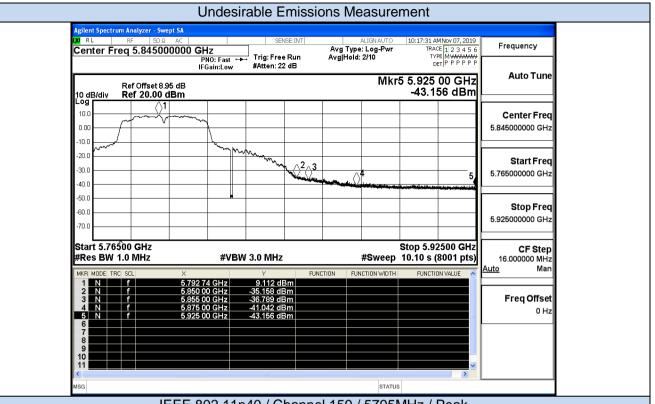
IEEE 802.11n20 / Channel 165 / 5825MHz / Average

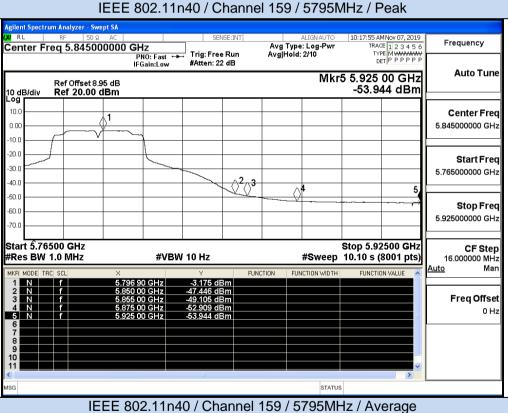




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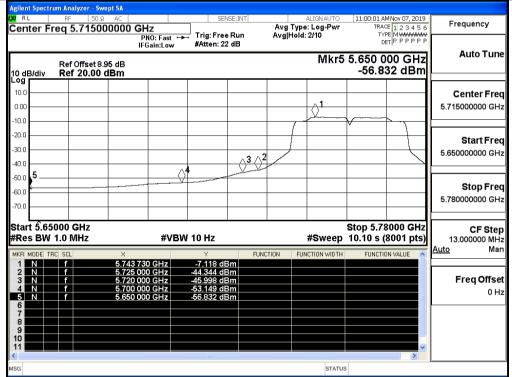
IEEE 802.11n40 / Channel 151 / 5755MHz / Average

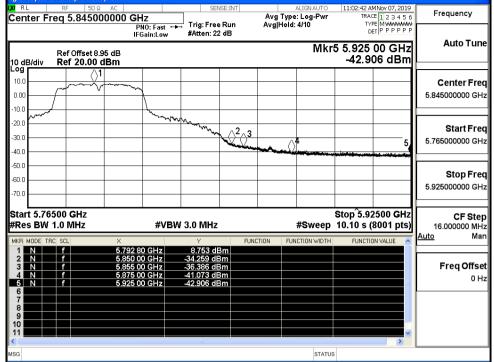




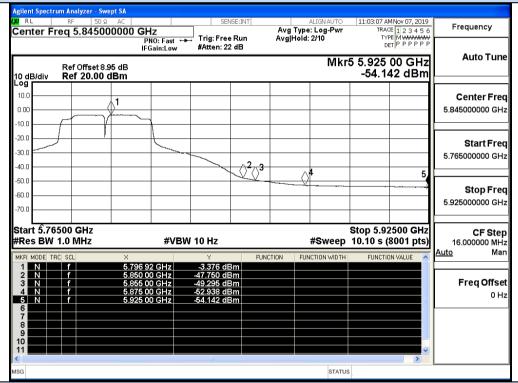
STATUS

Freq Offset

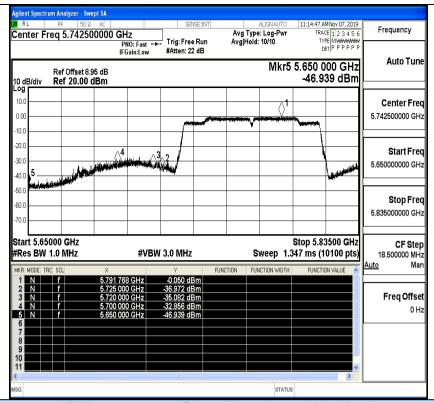




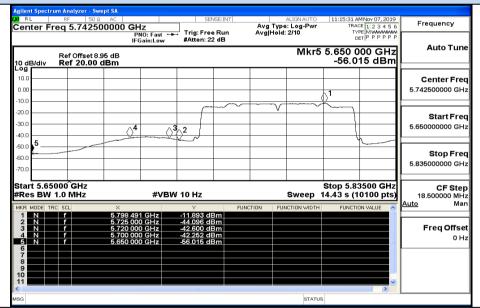
IEEE 802.11ac40 / Channel 159 / 5795MHz / Peak



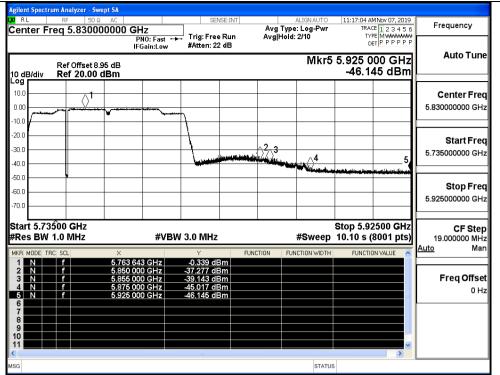
IEEE 802.11ac40 / Channel 159 / 5795MHz / Average



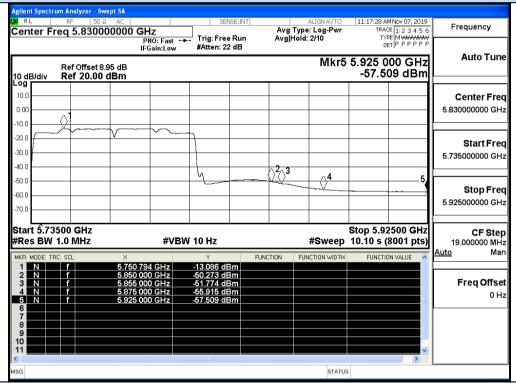
IEEE 802.11ac80 / Channel 155 / 5775MHz / Peak



IEEE 802.11ac80 / Channel 155 / 5775MHz / Average



IEEE 802.11ac80 / Channel 155/ 5775MHz / Peak



IEEE 802.11ac80 / Channel 155 / 5775MHz / Average