Appendix D

RF Test Data for 5.8G WLAN (Conducted Measurement)

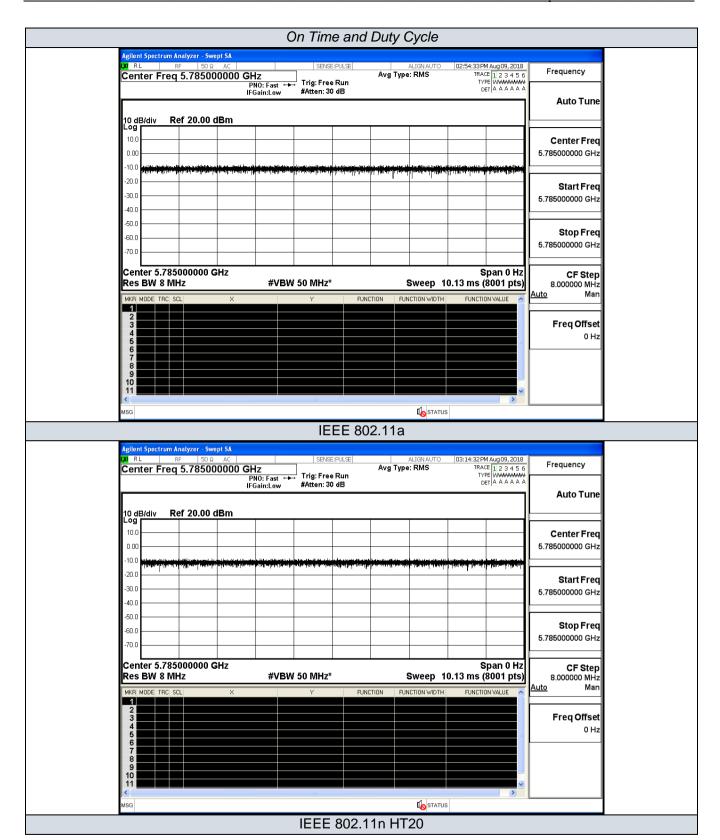
Product Name: Lapbook Trade Mark: Fusion5 Test Model: T90B+ Pro

Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	52.4%
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	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

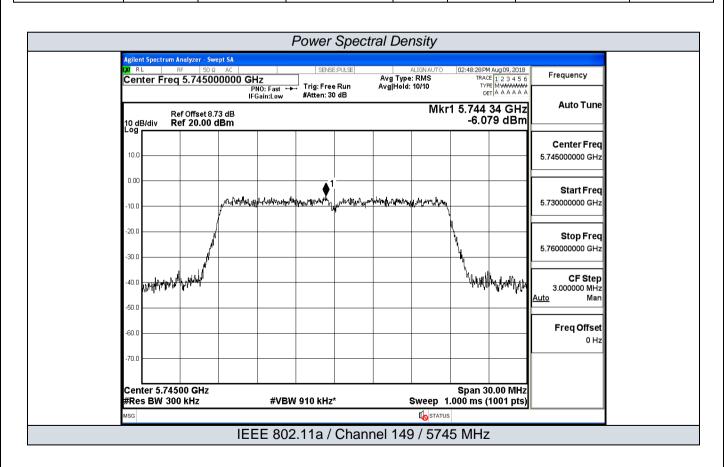


D.2 Maximum Conduct Output Power

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)
	149	5745	11.32	0	11.32	
11A	157	5785	11.17	0	11.17	30
	165	5825	11.24	0	11.24	
	149	5745	12.09	0	12.09	
11N20 SISO	157	5785	12.16	0	12.16	30
	165	5825	12.22	0	12.22	
11N40 SISO	151	5755	12.84	0	12.84	30
111140 3130	159	5795	12.79	0	12.79	30
	149	5745	12.21	0	12.21	
11AC20 SISO	157	5785	12.16	0	12.16	30
	165	5825	12.25	0	12.25	
11AC40 SISO	151	5755	12.89	0	12.89	30
114040 3130	159	5795	12.76	0	12.76	30
11AC80 SISO	155	5775	13.59	0	13.59	30

D.3 Power Spectral Density

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500 KHz)
	149	5745	-6.079	0	2.218	-3.86	
11A	157	5785	-8.787	0	2.218	-6.57	30
	165	5825	-9.597	0	2.218	-7.38	
	149	5745	-6.664	0	2.218	-4.45	
11N20 SISO	157	5785	-9.562	0	2.218	-7.34	30
	165	5825	-9.435	0	2.218	-7.22	
11N40 SISO	151	5755	-9.212	0	2.218	-6.99	30
111140 3130	159	5795	-11.624	0	2.218	-9.41	30
	149	5745	-6.834	0	2.218	-4.62	
11AC20 SISO	157	5785	-9.059	0	2.218	-6.84	30
	165	5825	-9.184	0	2.218	-6.97	
11AC40 SISO	151	5755	-10.110	0	2.218	-7.89	20
114040 3130	159	5795	-11.885	0	2.218	-9.67	30
11AC80 SISO	155	5775	-12.039	0	2.218	-9.82	30



Stop Freq 5.800000000 GHz

CF Step

3.000000 MHz

Freq Offset

0 Hz

<u>Auto</u>

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-10.0

-20.0

-30.0

-40.0

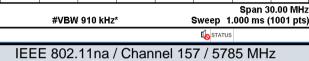
-50.0

-60.0

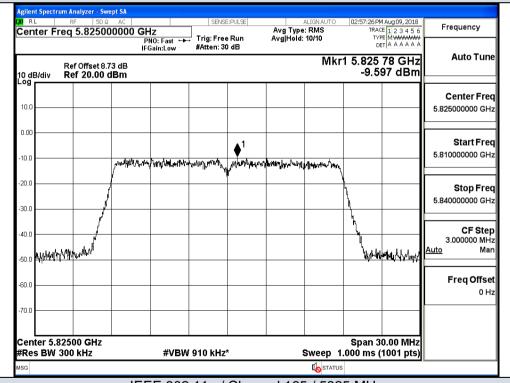
-70.0

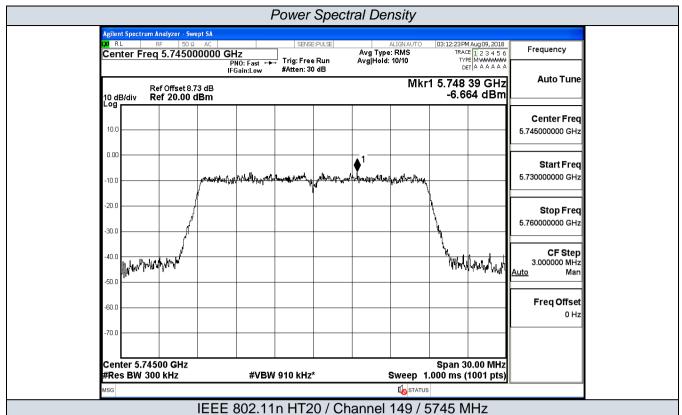
NOT PRINTED VINE HAP AVA

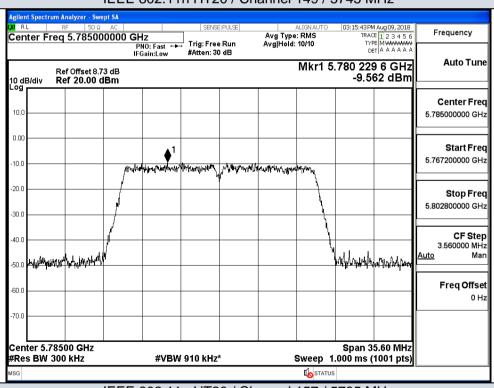
Center 5.78500 GHz #Res BW 300 kHz

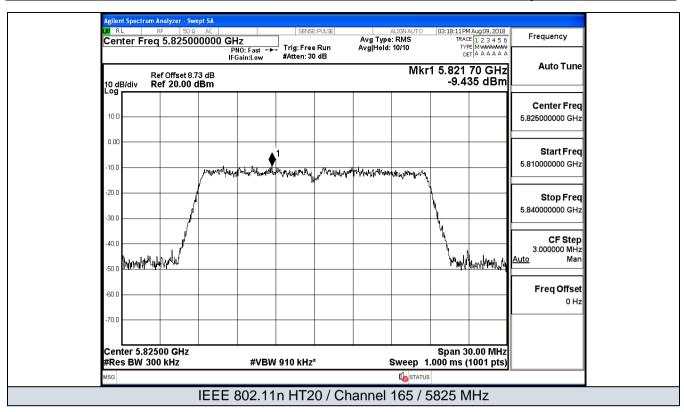


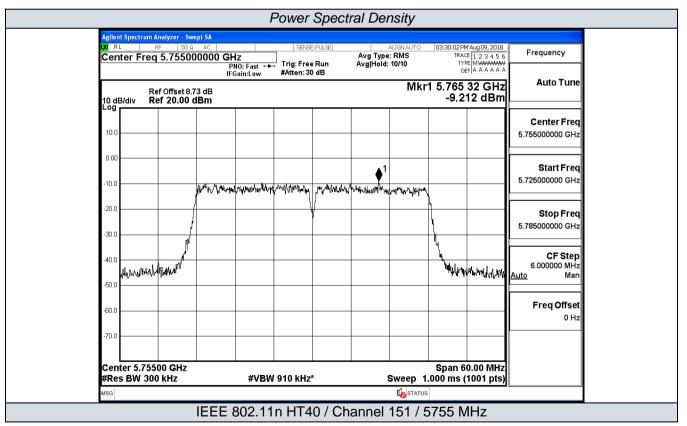
#VBW 910 kHz*

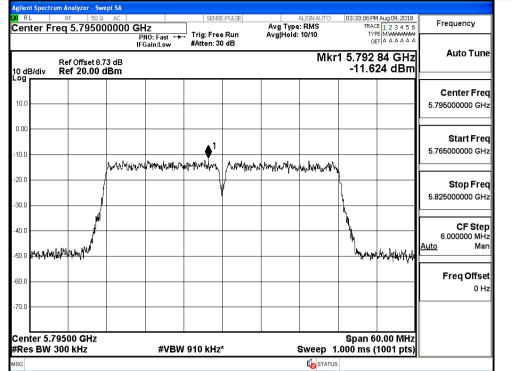




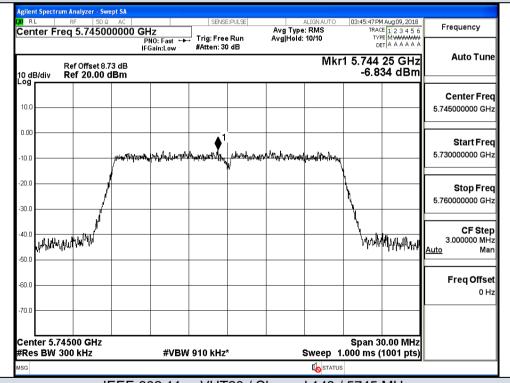




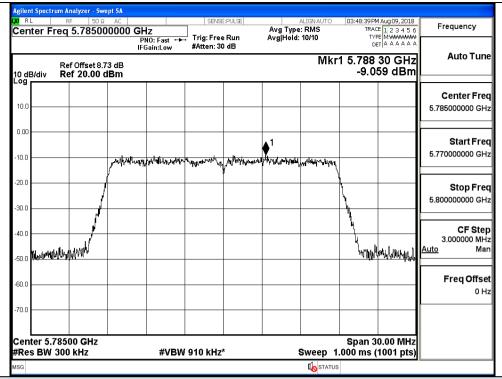




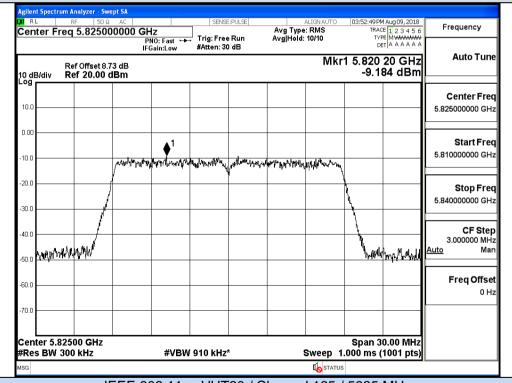
IEEE 802.11n HT40 / Channel 159 / 5795 MHz



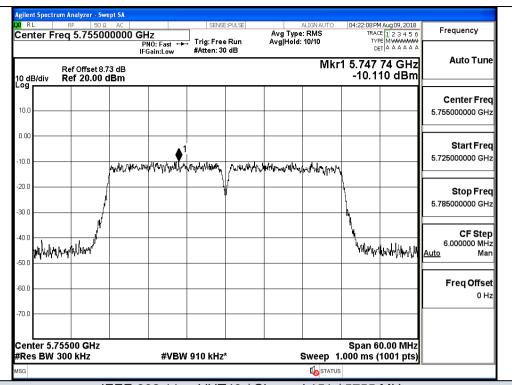
IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz



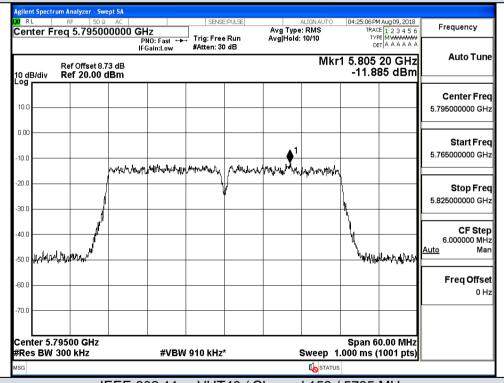
IEEE 802.11ac VHT20 / Channel 157 / 5785 MHz



IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz



IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz



IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz

#VBW 910 kHz*

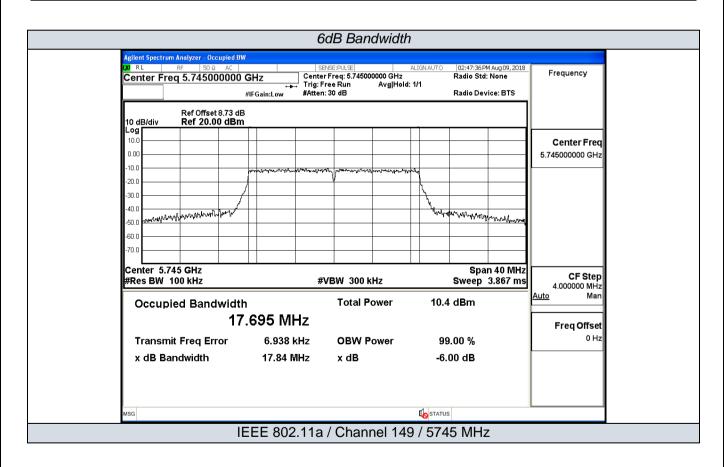
Span 120.0 MHz Sweep 1.667 ms (1001 pts)

STATUS

Center 5.77500 GHz #Res BW 300 kHz

D.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
	149	5745	17.84	
11A	157	5785	17.80	>=0.5
	165	5825	17.85	
	149	5745	17.85	
11N20 SISO	157	5785	17.80	>=0.5
	165	5825	17.83	
11N40 SISO	151	5755	36.52	>=0.5
111140 3130	159	5795	36.51	>=0.5
	149	5745	17.83	
11AC20SISO	157	5785	17.79	>=0.5
	165	5825	17.81	
11AC40SISO	151	5755	36.52	>=0.5
1140403130	159	5795	36.51	>=0.5
11AC80SISO	155	5775	76.53	>=0.5



OBW Power

x dB

99.00 %

-6.00 dB

STATUS

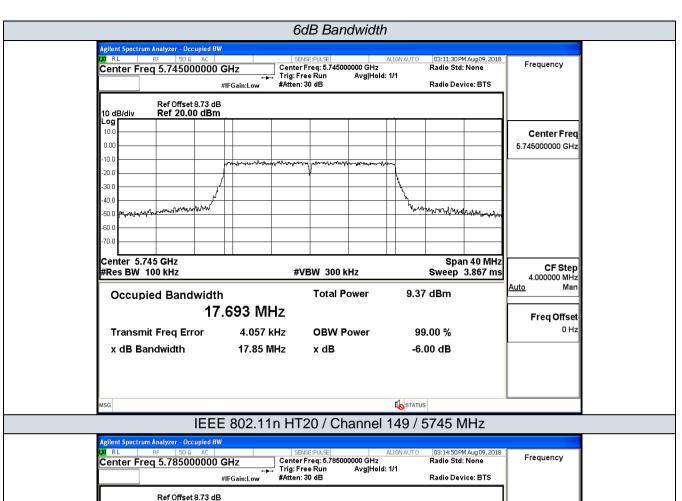
900 Hz

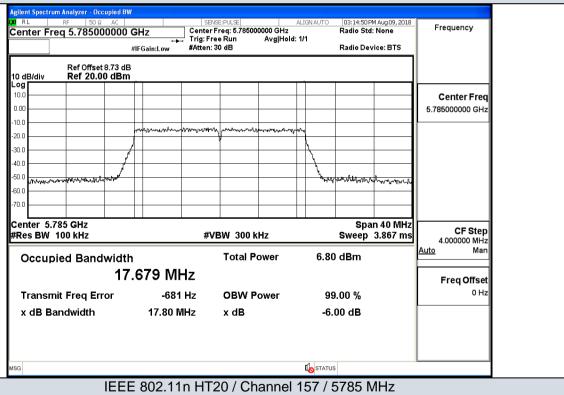
17.85 MHz

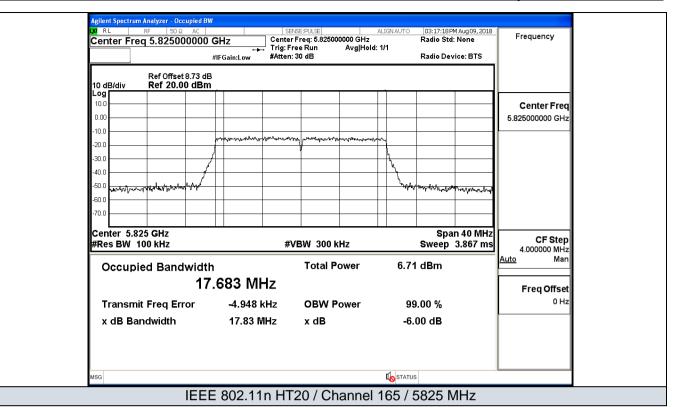
Transmit Freq Error

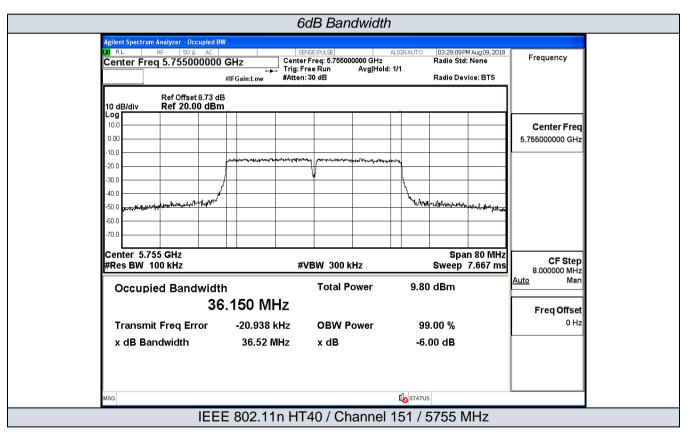
x dB Bandwidth

0 Hz









IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz

OBW Power

x dB

99.00 %

-6.00 dB

STATUS

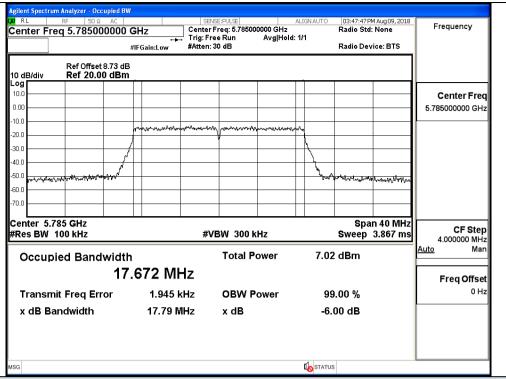
8.139 kHz

17.83 MHz

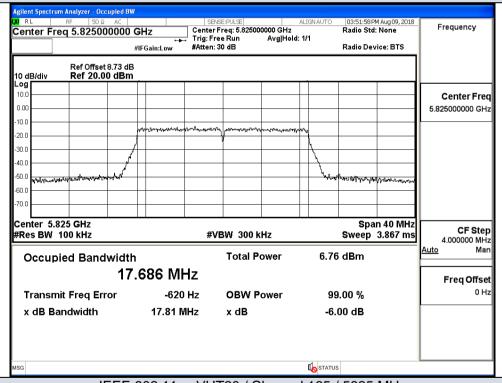
Transmit Freq Error

x dB Bandwidth

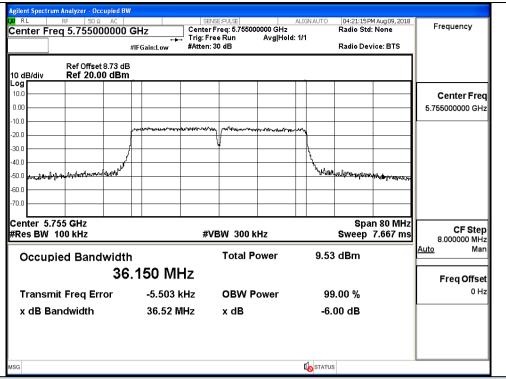
Freq Offset



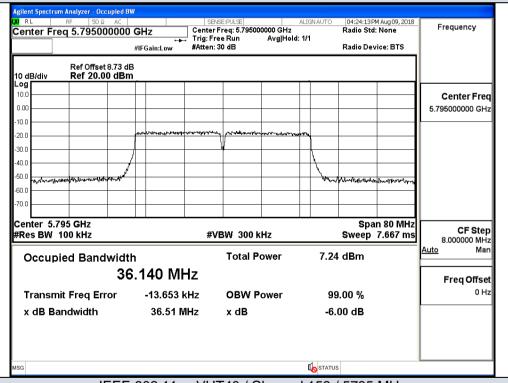
IEEE 802.11ac VHT20 / Channel 157/ 5785 MHz



IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz



IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz



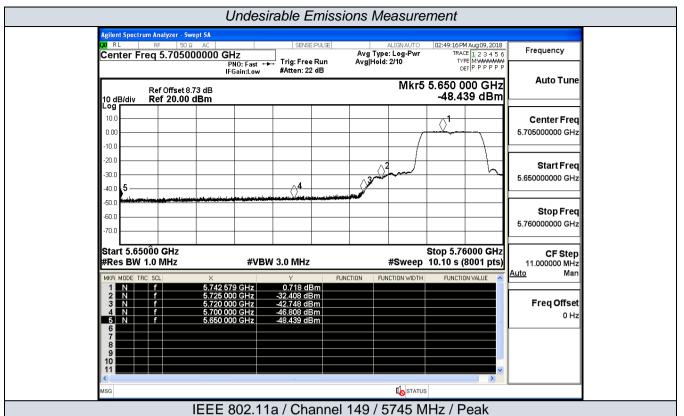
IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz

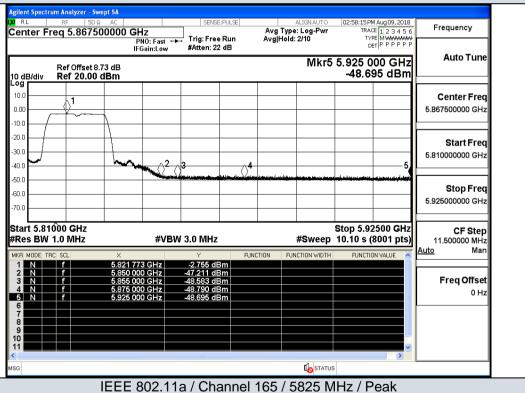
STATUS

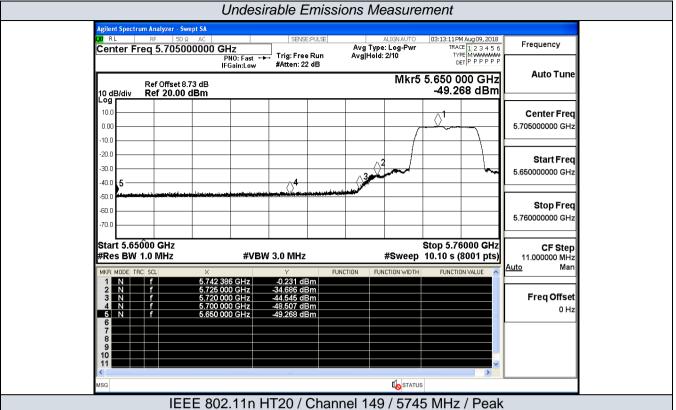
D.5 Undesirable Emissions Measurement

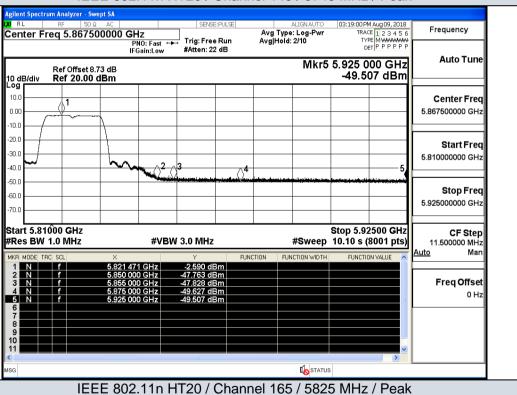
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
		5650.0	-48.439	3.000	-45.439	Peak	-27.0
	149	5700.0	-46.808	3.000	-43.808	Peak	10.0
	149	5720.0	-42.748	3.000	-39.748	Peak	15.6
444		5725.0	-34.408	3.000	-31.408	Peak	27.0
11A		5850.0	-47.211	3.000	-44.211	Peak	27.0
	405	5855.0	-48.583	3.000	-45.583	Peak	15.6
	165	5875.0	-48.790	3.000	-45.790	Peak	10.0
		5925.0	-48.695	3.000	-45.695	Peak	-27.0
		5650.0	-49.268	3.000	-46.268	Peak	-27.0
	4.40	5700.0	-48.507	3.000	-45.507	Peak	10.0
	149	5720.0	-44.545	3.000	-41.545	Peak	15.6
11N20		5725.0	-36.685	3.000	-33.685	Peak	27.0
SISO		5850.0	-47.763	3.000	-44.763	Peak	27.0
	405	5855.0	-47.828	3.000	-44.828	Peak	15.6
	165	5875.0	-49.627	3.000	-46.627	Peak	10.0
		5925.0	-49.507	3.000	-46.507	Peak	-27.0
		5650.0	-47.751	3.000	-44.751	Peak	-27.0
	454	5700.0	-48.477	3.000		Peak	10.0
	151	5/20.0 -38./18	-38.718	3.000	-35.718	Peak	15.6
11N40		5725.0	-35.776	3.000	-32.776	Peak	27.0
SISO		5850.0	-49.257	3.000	-46.257	Peak	27.0
	450	5855.0	-48.311	3.000	-45.311	Peak	15.6
	159	5875.0	-47.911	3.000	-44.911	Peak	10.0
		5925.0	-49.200	3.000	-46.200	Peak	-27.0
		5650.0	-49.891	3.000	-46.891	Peak	-27.0
	4.40	5700.0	-47.731	3.000	-44.731	Peak	10.0
	149	5720.0	-43.786	3.000	-40.786	Peak	15.6
11AC20		5725.0	-34.708	3.000	-31.708	Peak	27.0
SISO		5850.0	-47.000	3.000	-44.000	Peak	27.0
	405	5855.0	-48.254	3.000	-45.254	Peak	15.6
	165	5875.0	-49.042	3.000	-46.042	Peak	10.0
		5925.0	-49.008	3.000	-46.008	Peak	-27.0
		5650.0	-49.379	3.000	-46.379	Peak	-27.0
	454	5700.0	-47.066	3.000	-44.066	Peak	10.0
	151	5720.0	-37.127	3.000	-34.127	Peak	15.6
11AC40		5725.0	-35.820	3.000	-32.820	Peak	27.0
SISO		5850.0	-49.210	3.000	-46.210	Peak	27.0
	150	5855.0	-48.723	3.000	-45.723	Peak	15.6
	159	5875.0	-49.530	3.000	-46.530	Peak	10.0
		5925.0	-49.887	3.000	-46.887	Peak	-27.0
		5725.0	-51.521	3.000	-48.521	Peak	-27.0
44.0000		5720.0	-44.399	3.000	-41.399	Peak	10.0
11AC80	155	5700.0	-41.285	3.000	-38.285	Peak	15.6
SISO		5650.0	-35.831	3.000	-32.831	Peak	27.0
		5850.0	-45.659	3.000	-42.659	Peak	27.0

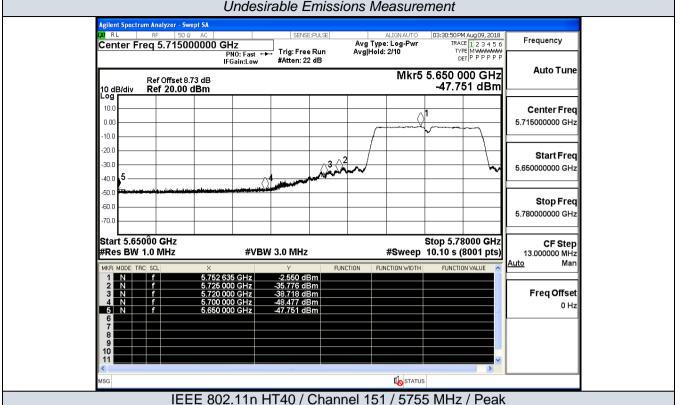
ZHEN LCS COMP	LIANCE TESTING LAI	BORATORY LTD.	FCC ID: 2AII	KX-T90BPRO	Report No.: LCS	180630056AE
	5855.0	-46.204	3.000	-43.204	Peak	15.6
	5875.0	-47.607	3.000	-44.607	Peak	10.0
	5925.0	-49.867	3.000	-46.867	Peak	-27.0

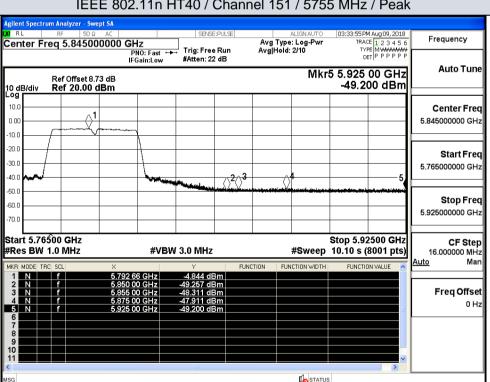






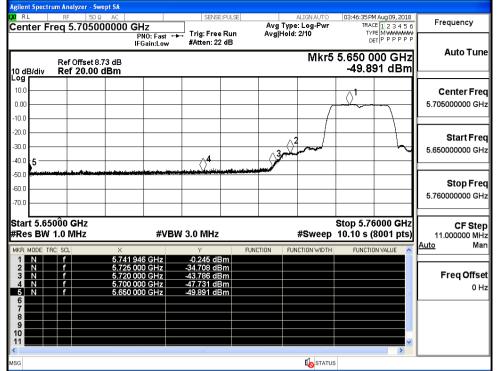




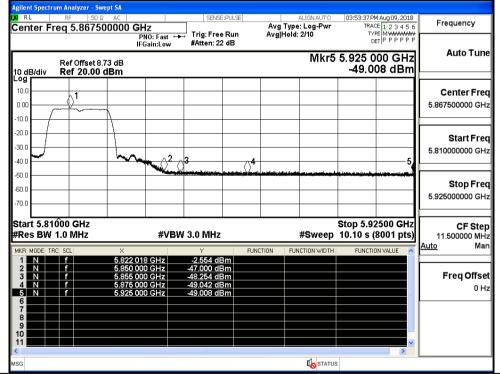


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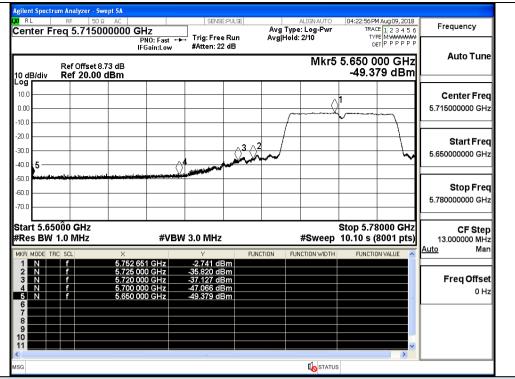
IEEE 802.11n HT40 / Channel 159 / 5795 MHz / Peak



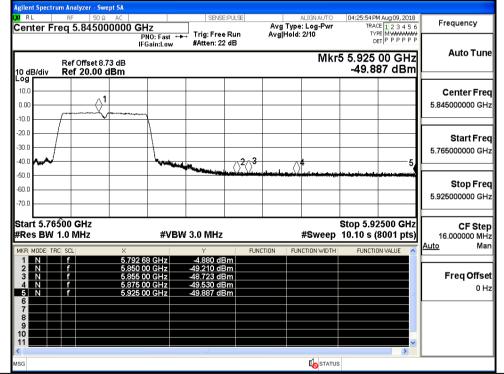
IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz / Peak



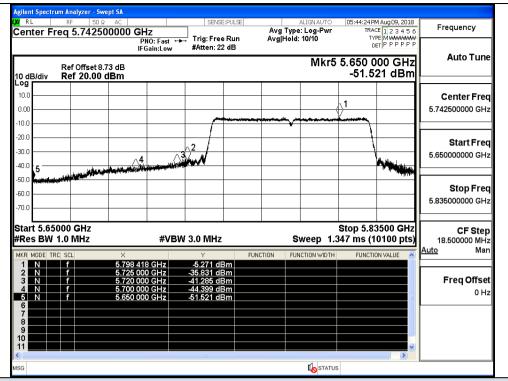
IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz / Peak

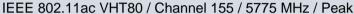


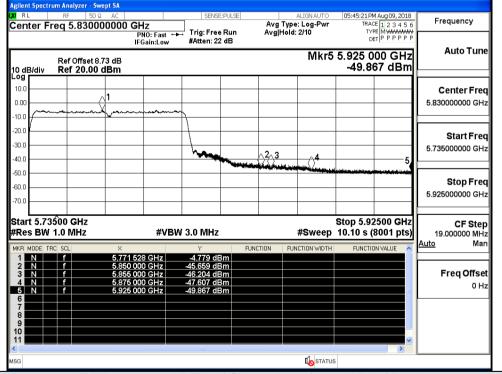
IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz / Peak



IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz / Peak







IEEE 802.11ac VHT80 / Channel 155/ 5775 MHz / Peak