Appendix F

RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: Two in one convertible notebook

Trade Mark: YUKO Test Model: A1162

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Jayden.Zhuo

F.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)	
11A	5200	98.49	0.07	0.01	
11N20 SISO	5200	98.49	0.07	0.01	
11N40 SISO	5190	97.13	0.13	0.01	
11AC20 SISO	5200	98.49	0.07	0.01	
11AC40 SISO	5190	96.97	0.13	0.01	
11AC80 SISO	5210	93.51	0.29	0.01	

-60.0

.7n n

Center 5.200000000 GHz

#VBW 50 MHz*

2.67 dBm 2.37 dBm FUNCTION

IEEE 802.11n HT20

Res BW 8 MHz

Stop Freq

CF Step

8.000000 MHz

Freq Offset

<u>Auto</u>

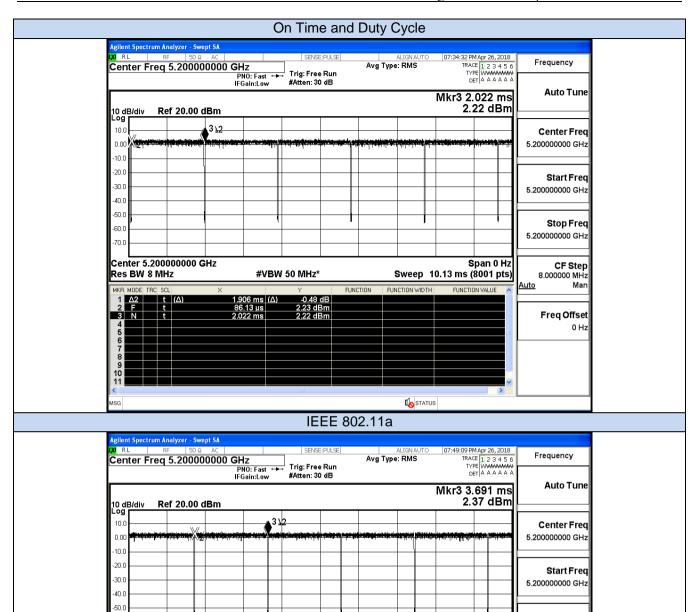
5.200000000 GHz

Span 0 Hz

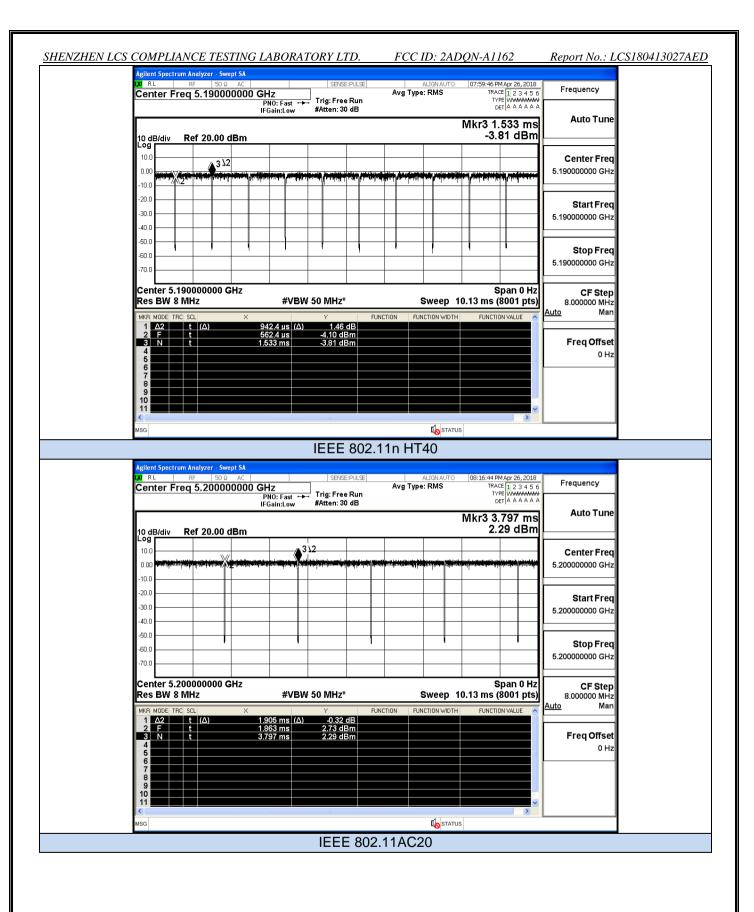
Sweep 10.13 ms (8001 pts)

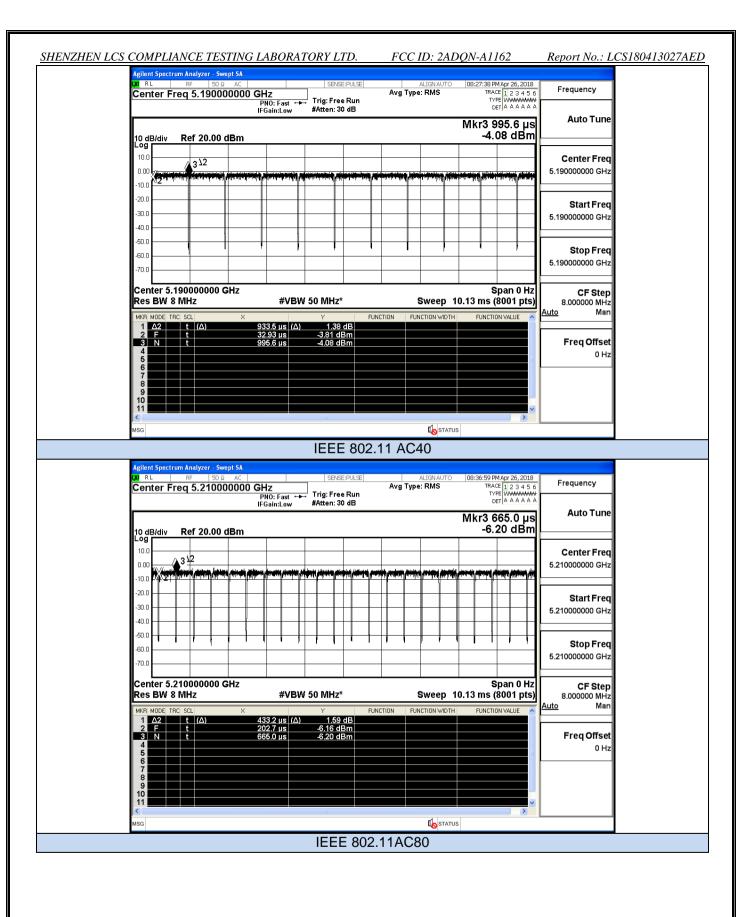
FUNCTION WIDTH

STATUS



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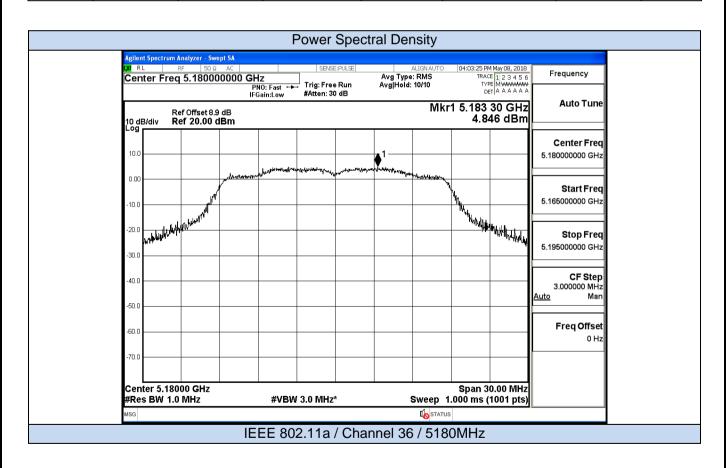


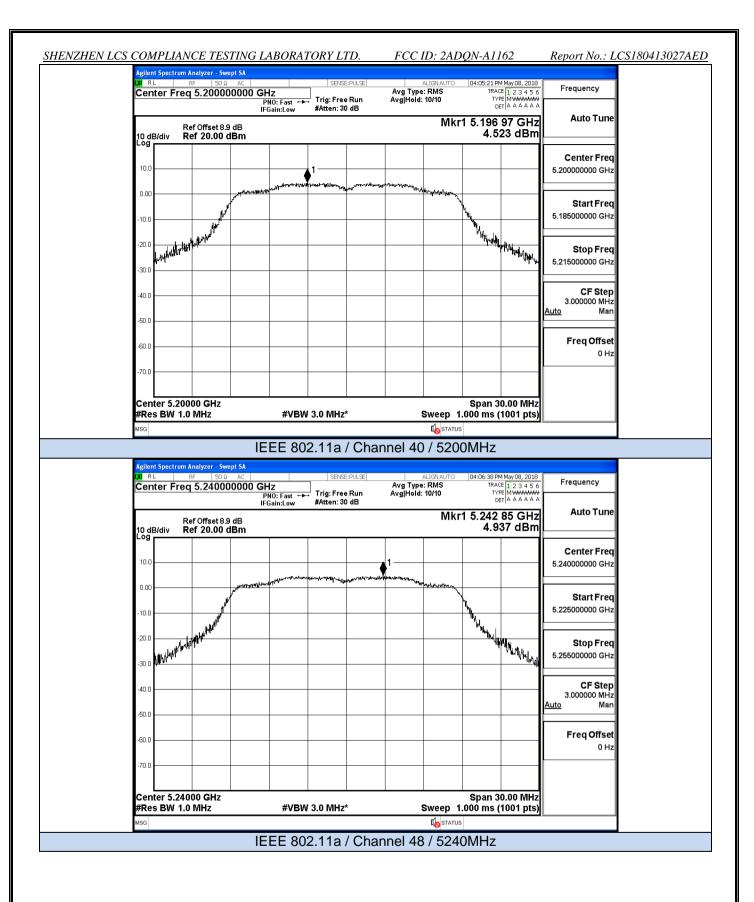
F.2 Maximum Conduct Output Power

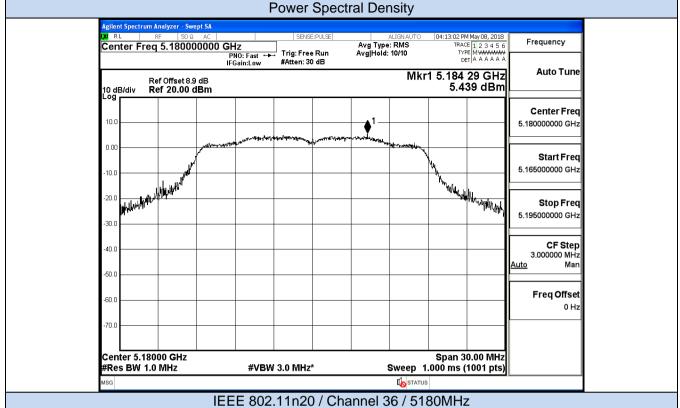
Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
	36	5180	13.41	0.07	13.48		Pass
11A	40	5200	13.45	0.07	13.52	24	Pass
	48	5240	13.63	0.07	13.70		Pass
11N20	36	5180	13.18	0.07	13.25		Pass
SISO	40	5200	13.86	0.07	13.93	24	Pass
3130	48	5240	13.93	0.07	14.00		Pass
11N40	38	5190	13.63	0.13	13.76	24	Pass
SISO 46 523		5230	13.95	0.13	14.08	24	Pass
11AC20	36	5180	13.61	0.07	13.68		Pass
SISO	40	5200	13.90	0.07	13.97	24	Pass
3130	48	5240	13.95	0.07	14.02		Pass
11AC40	38	5190	13.60	0.13	13.73	24	Pass
SISO	SISO 46 5230		13.98	0.13	14.11	1	Pass
11AC80 SISO	42	5210	12.86	0.29	13.15	24	Pass

F.3 Power Spectral Density

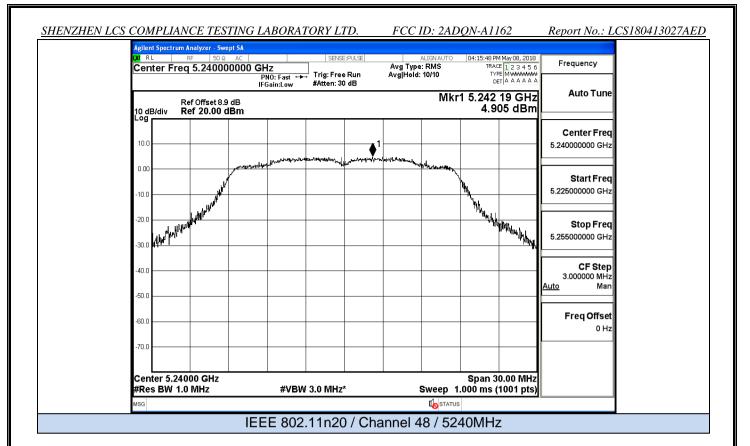
Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor (dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)	Verdict
	36	5180	4.85	0.07	4.92		Pass
11A	40	5200	4.52	0.07	4.59	11	Pass
	48	5240	4.94	0.07	5.01		Pass
11N20	36	5180	5.44	0.07	5.51		Pass
SISO	40	5200	4.59	0.07	4.66	11	Pass
3130	48	5240	4.91	0.07	4.98]	Pass
11N40	38	5190	2.32	0.13	2.45	11	Pass
SISO	46	5230	1.71	0.13	1.84] ''	Pass
11AC20	36	5180	4.73	0.07	4.80		Pass
SISO	40	5200	4.64	0.07	4.71	11	Pass
3130	48	5240	4.80	0.07	4.87]	Pass
11AC40	38	5190	1.57	0.13	1.70	11	Pass
SISO	46	5230	1.84	0.13	1.97	1	Pass
11AC80 SISO	42	5210	-1.40	0.29	-1.11	11	Pass

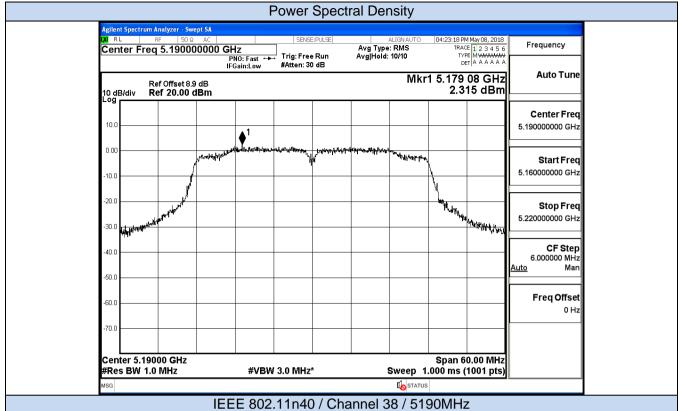




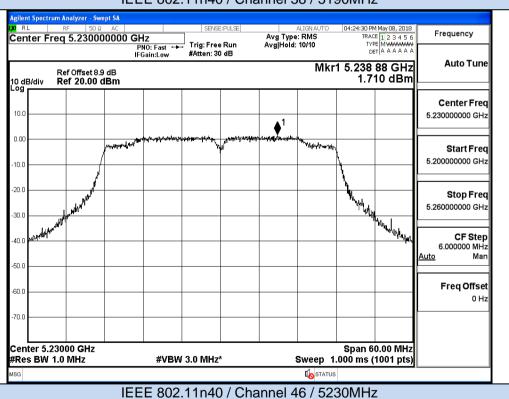


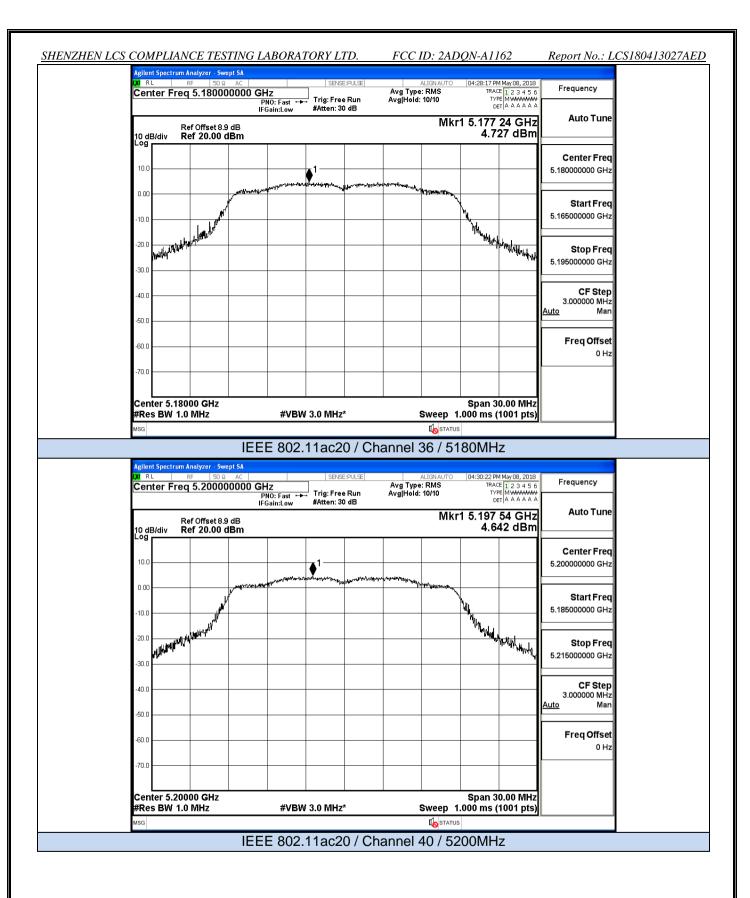
Agilent Spectrum Analyzer - Swept SA ALIGN AUTO 04:14:25 PM May 08, 2018 Avg Type: RMS 1RACE 1 2 3 4 5 6 Avg|Hold: 10/10 Type Mwwwww. DET|A A A A A A Frequency Auto Tune Mkr1 5.197 06 GHz Ref Offset 8.9 dB Ref 20.00 dBm 4.592 dBm 10 dB/div Log Center Freq 5.200000000 GHz n no Start Freq 5.185000000 GHz -10.0 Mary Marie and M Mary palador de production de pala -20.0 Stop Freq 5.215000000 GHz CF Step -40.0 3.000000 MHz -50.0 Freq Offset -60.0 0 Hz -70.0 Center 5.20000 GHz #Res BW 1.0 MHz Span 30.00 MHz Sweep 1.000 ms (1001 pts) #VBW 3.0 MHz* STATUS IEEE 802.11n20 / Channel 40 / 5200MHz





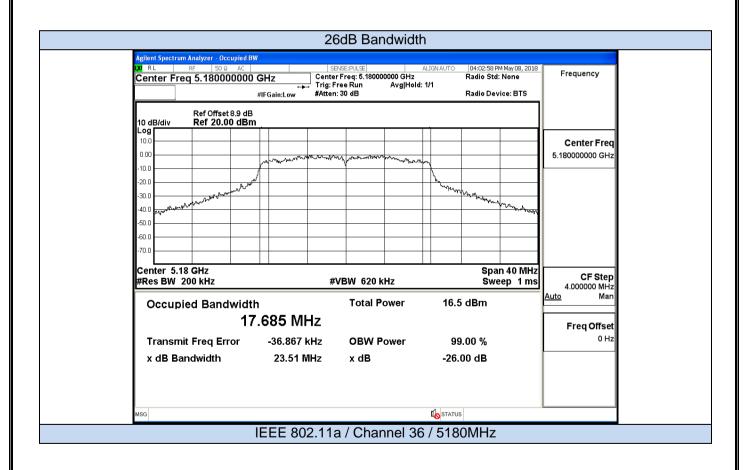
FCC ID: 2ADQN-A1162

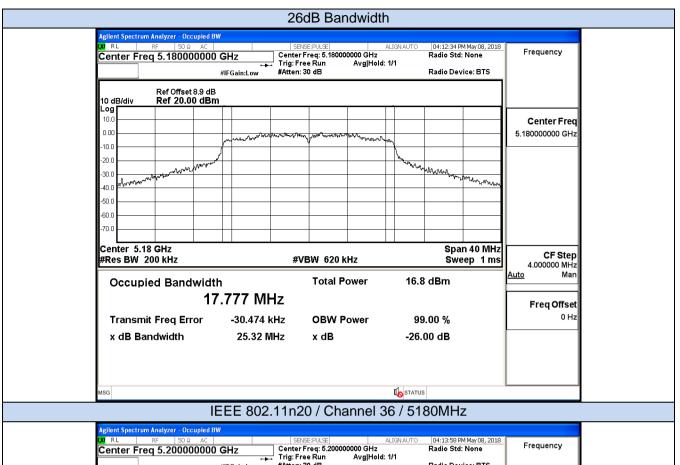


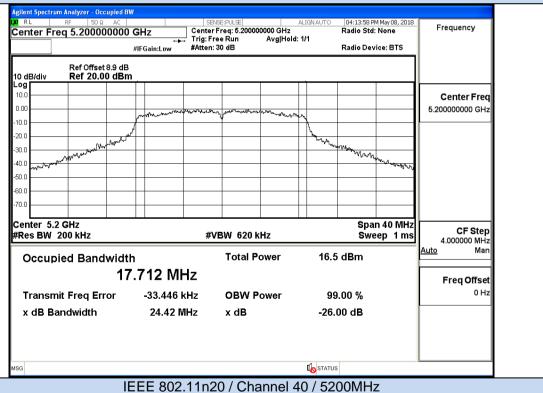


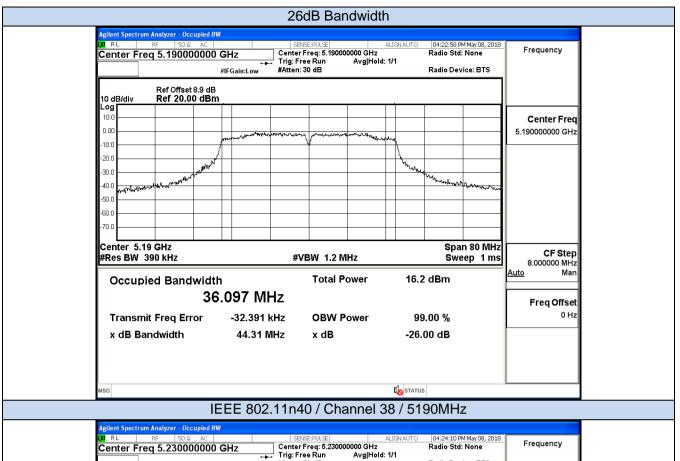
F.4 Emission Bandwidth

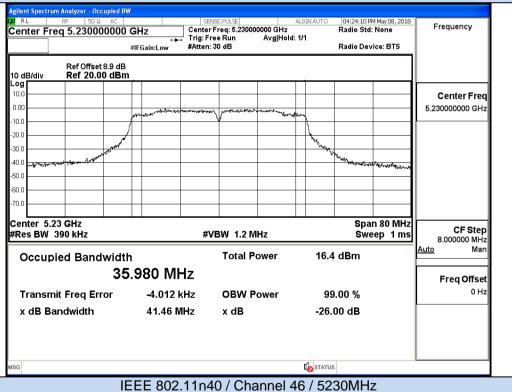
Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Verdict
	36	5180	23.51	17.685		Pass
11A	40	5200	24.30	17.707	No Limit	Pass
	48	5240	22.00	17.652		Pass
	36	5180	25.32	17.777		Pass
11N20 SISO	40	5200	24.42	17.712	No Limit	Pass
	48	5240	21.87	17.631		Pass
11N40 SISO	38	5190	44.31	36.097	No Limit	Pass
111140 5150	46	5230	41.46	35.980	No Limit	Pass
	36	5180	24.32	17.700		Pass
11AC20 SISO	40	5200	24.62	17.711	No Limit	Pass
	48	5240	22.71	17.653		Pass
11AC40 SISO	38	5190	44.17	36.089	No Limit	Pass
114040 5150	46	5230	41.90	36.034	NO LIMIT	Pass
11AC80 SISO	42	5210	75.55	75.547	No Limit	Pass





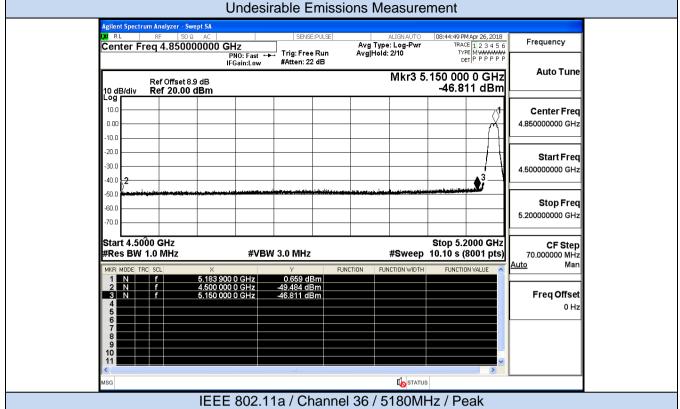


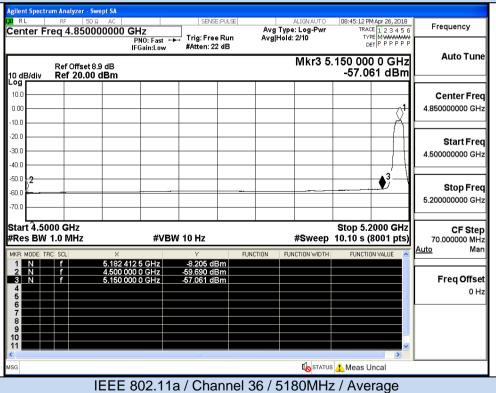


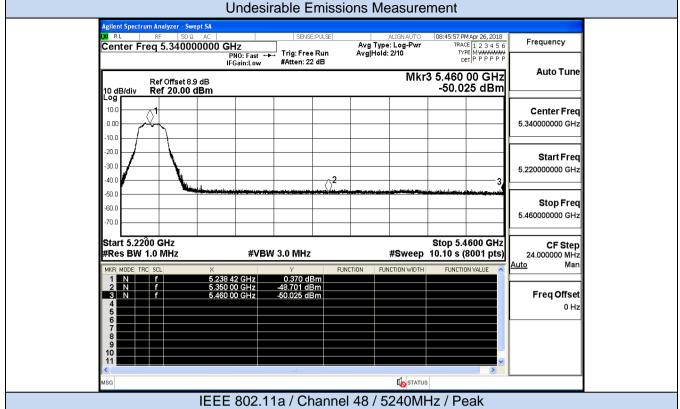


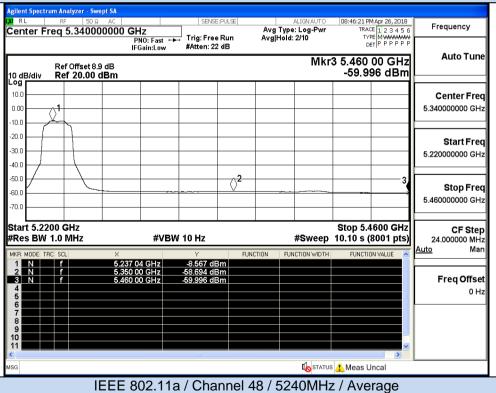
F.5 Undesirable Emissions Measurement

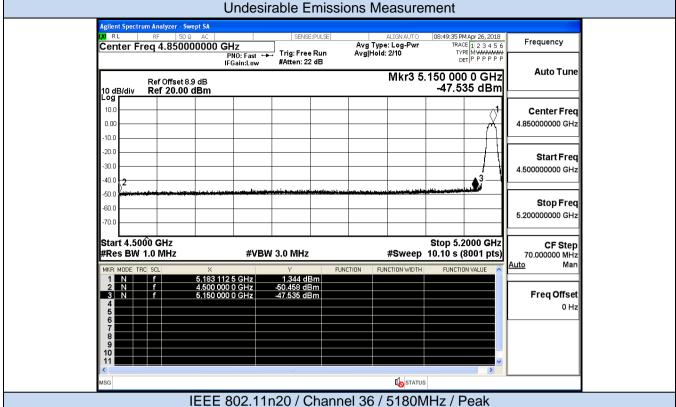
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
		4500.0	-49.48	2.00	0	47.75	Peak	74.00	Pass
	36	4500.0	-59.69	2.00	0	37.54	Average	54.00	Pass
	30	5150.0	-46.81	2.00	0	50.42	Peak	74.00	Pass
110		5150.0	-57.06	2.00	0	40.17	Average	54.00	Pass
11A		5350.0	-48.70	2.00	0	48.53	Peak	74.00	Pass
	48	5350.0	-58.69	2.00	0	38.54	Average	54.00	Pass
	40	5460.0	-50.03	2.00	0	47.20	Peak	74.00	Pass
		5460.0	-60.00	2.00	0	37.23	Average	54.00	Pass
		4500.0	-50.46	2.00	0	46.77	Peak	74.00	Pass
	36	4500.0	-59.69	2.00	0	37.54	Average	54.00	Pass
	30	5150.0	-47.54	2.00	0	49.69	Peak	74.00	Pass
11N20		5150.0	-57.05	2.00	0	40.18	Average	54.00	Pass
SISO		5350.0	-49.02	2.00	0	48.21	Peak	74.00	Pass
	48	5350.0	-58.78	2.00	0	38.45	Average	54.00	Pass
	70	5460.0	-49.49	2.00	0	47.74	Peak	74.00	Pass
		5460.0	-59.99	2.00	0	37.24	Average	54.00	Pass
		4500.0	-50.59	2.00	0	46.64	Peak	74.00	Pass
	38	4500.0	-59.72	2.00	0	37.51	Average	54.00	Pass
	00	5150.0	-46.92	2.00	0	50.31	Peak	74.00	Pass
11N40		5150.0	-56.85	2.00	0	40.38	Average	54.00	Pass
SISO		5350.0	-47.80	2.00	0	49.43	Peak	74.00	Pass
	46	5350.0	-58.55	2.00	0	38.68	Average	54.00	Pass
	10	5460.0	-49.48	2.00	0	47.75	Peak	74.00	Pass
		5460.0	-59.73	2.00	0	37.50	Average	54.00	Pass
	36	4500.0	-49.48	2.00	0	47.75	Peak	74.00	Pass
		4500.0	-59.47	2.00	0	37.76	Average	54.00	Pass
444000		5150.0	-46.86	2.00	0	50.37	Peak	74.00	Pass
11AC20		5150.0	-56.92	2.00	0	40.31	Average	54.00	Pass
SISO	48	4500.0	-49.48	2.00	0	47.75	Peak	74.00	Pass
		4500.0	-59.47	2.00	0	37.76	Average	54.00	Pass
		5150.0	-46.86	2.00	0	50.37	Peak	74.00	Pass
		5150.0	-56.92	2.00	0	40.31	Average	54.00	Pass
	38	4500.0	-48.85	2.00	0	48.38	Peak	74.00	Pass
		4500.0	-59.50	2.00	0	37.73	Average	54.00	Pass
1110010		5150.0	-46.20	2.00	0	51.03	Peak	74.00	Pass
11AC40		5150.0	-56.91	2.00	0	40.32	Average	54.00	Pass
SISO		5350.0	-47.79	2.00	0	49.44	Peak	74.00	Pass
	46	5350.0	-58.46 -49.32	2.00 2.00	0	38.77 47.91	Average	54.00	Pass
		5460.0	-49.52 -59.59				Peak	74.00	Pass
		5460.0	-48.61	2.00	0	37.64 48.62	Average Peak	54.00 74.00	Pass Pass
		4500.0	-58.15	2.00	0	39.08	Average	54.00	Pass
		5150.0 4500.0	-50.04	2.00	0	47.19	Peak	74.00	Pass
11AC80	40	5150.0	-59.15	2.00	0	38.08	Average	54.00	Pass
SISO	42	5350.0	-48.61	2.00	0	48.62	Peak	74.00	Pass
		5460.0	-58.15	2.00	0	39.08	Average	54.00	Pass
		5350.0	-50.04	2.00	0	47.19	Peak	74.00	Pass
		5460.0	-59.15	2.00	0	38.08	Average	54.00	Pass



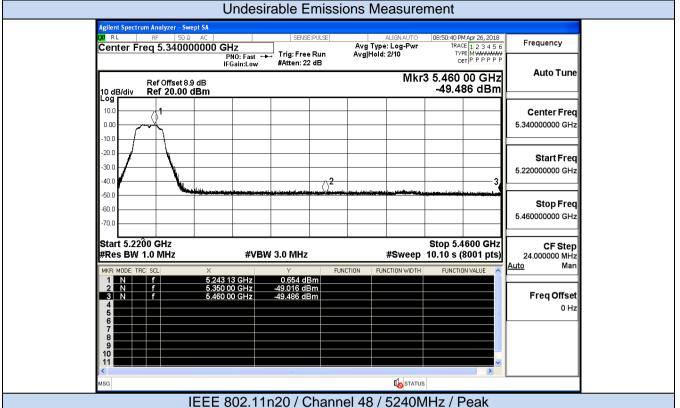


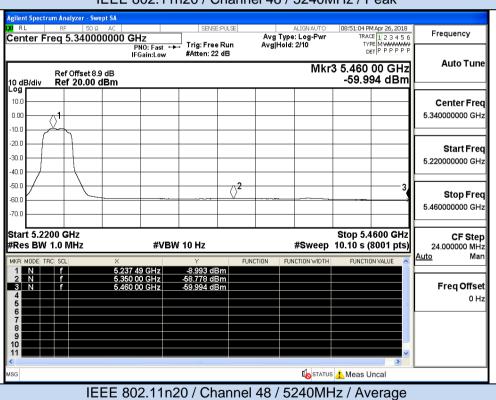


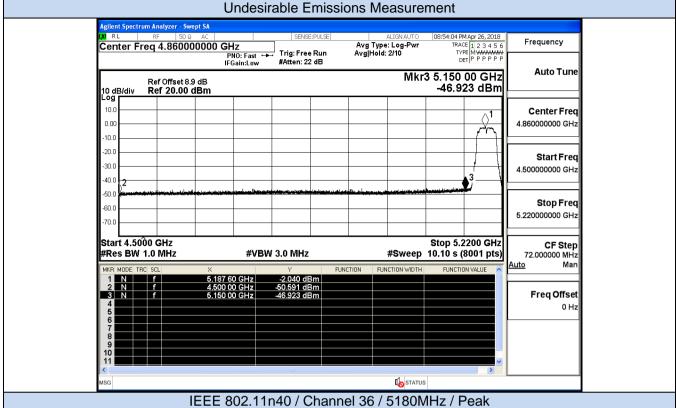


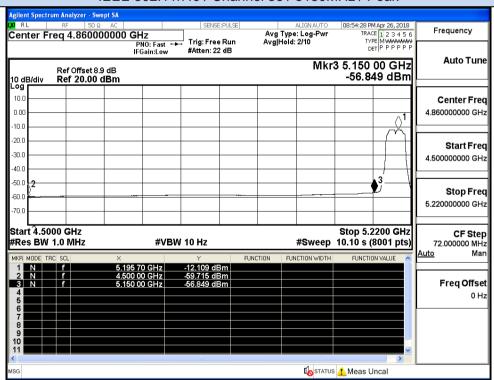


Agilent Spectrum Analyzer - Swept SA Frequency Auto Tune Mkr3 5.150 000 0 GHz Ref Offset 8.9 dB Ref 20.00 dBm -57.045 dBm 10 dB/div Log 10.0 Center Freq 4.850000000 GHz 0.00 -10.0 -20.0 Start Freq -30.0 4.500000000 GHz 40.0 -50.0 Stop Freq -60.0 5.200000000 GHz .7n n Start 4.5000 GHz Stop 5.2000 GHz CF Step #Sweep 10.10 s (8001 pts) #Res BW 1.0 MHz **#VBW 10 Hz** 70.000000 MHz <u>Auto</u> FUNCTION Freq Offset 0 Hz STATUS ! Meas Uncal IEEE 802.11n20 / Channel 36 / 5180MHz / Average

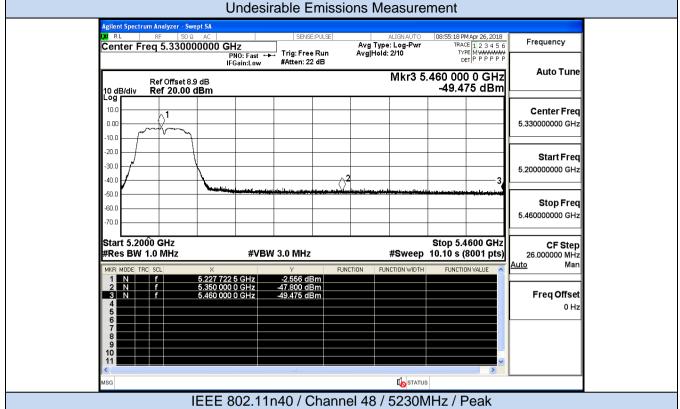


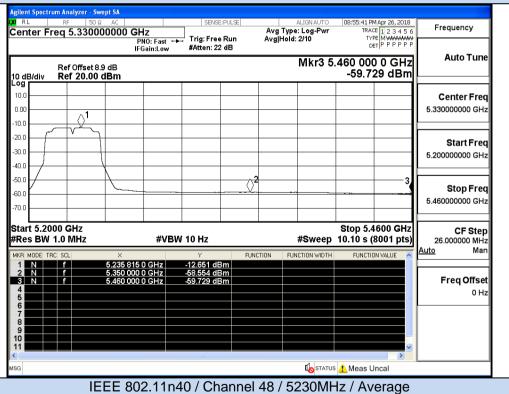


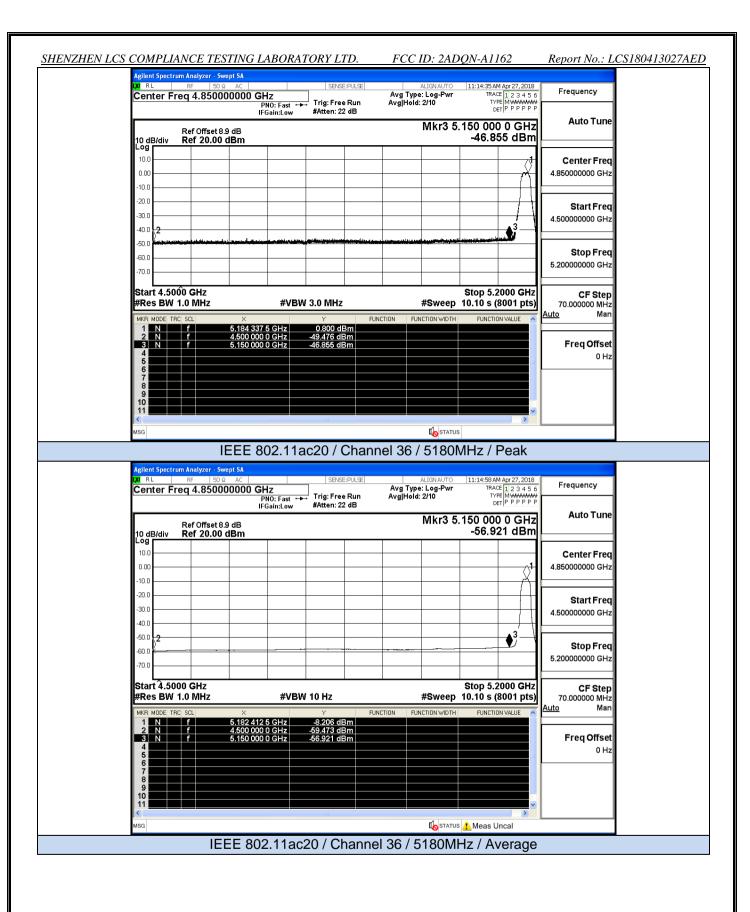


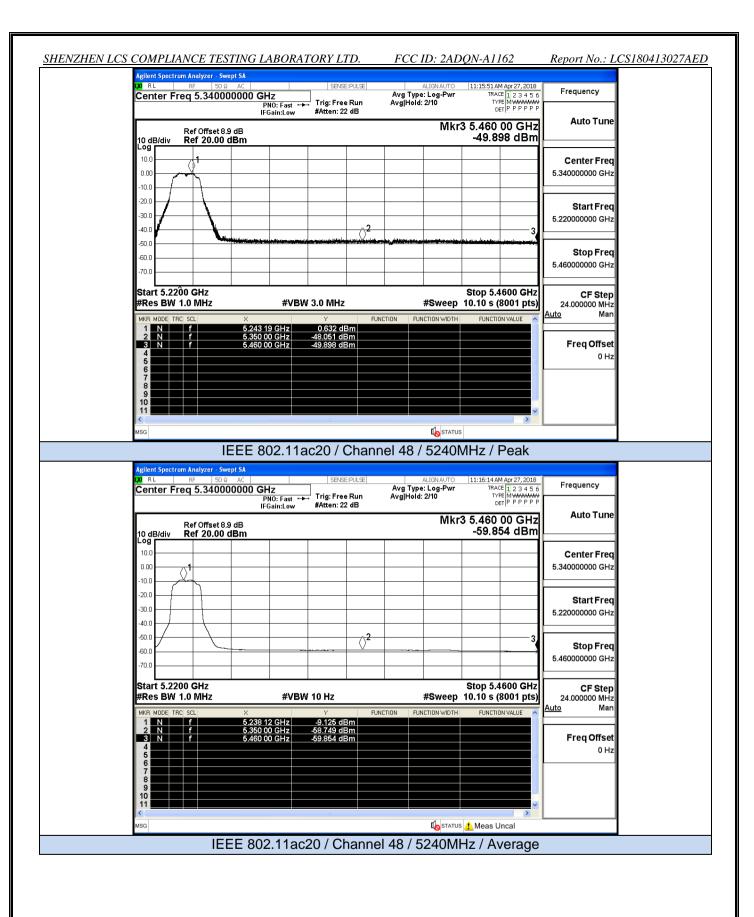


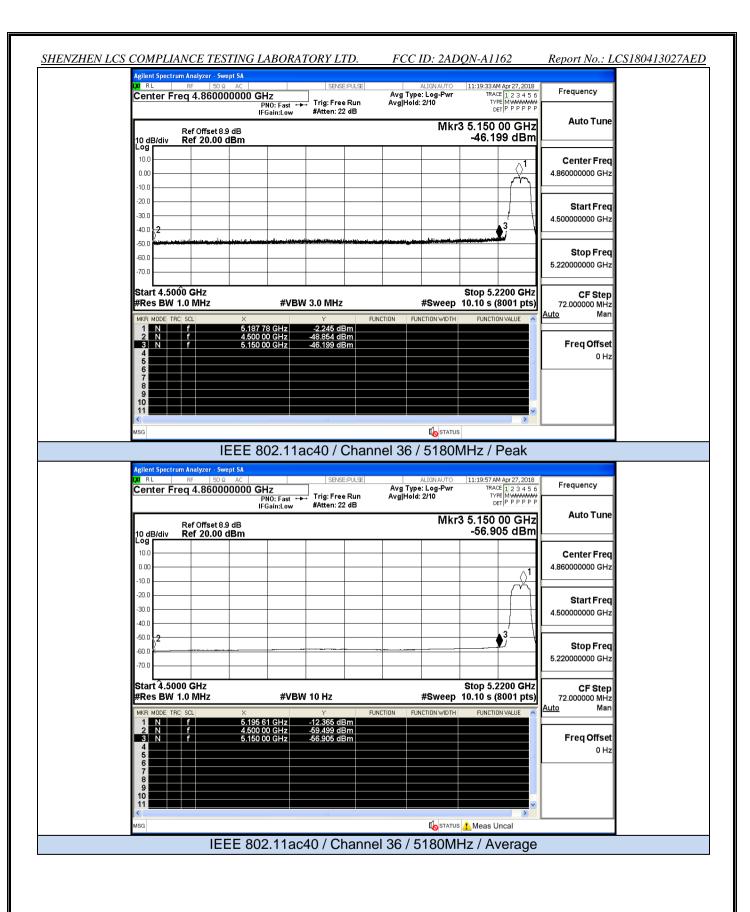
IEEE 802.11n40 / Channel 36 / 5180MHz / Average

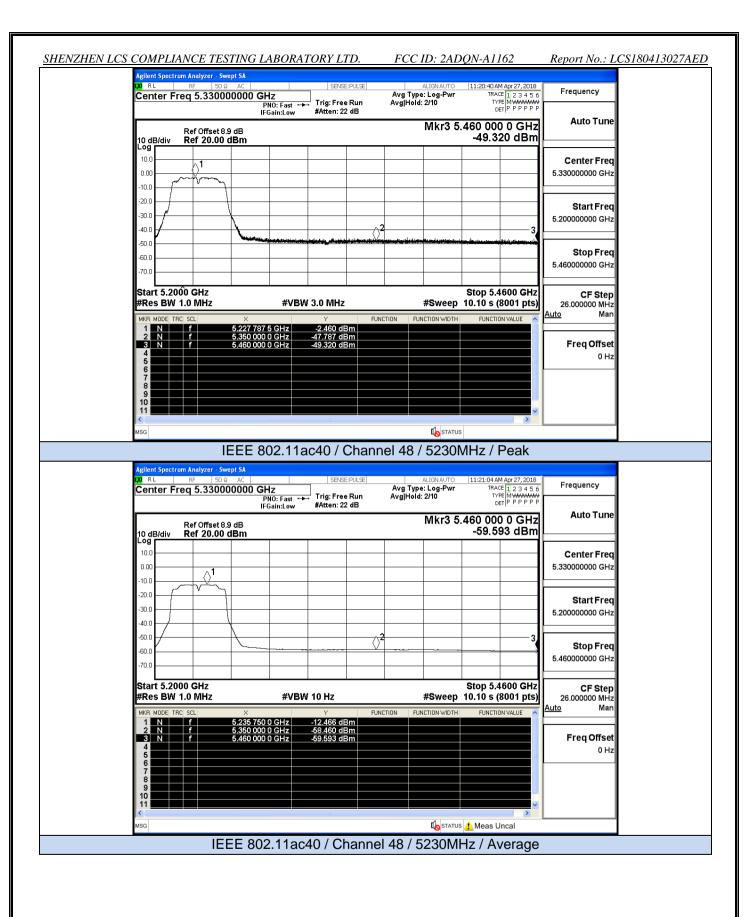












IEEE 802.11ac80 / Channel 42 / 5210MHz / Average