

FCC Test Report (15.407) - Annex

Report No.: RF150408C04-3

FCC ID: TE7RE580D

Test Model: RE580D

Received Date: Apr. 08, 2015

Test Date: May 04 to Aug. 20, 2015

Issued Date: June 22, 2016

Applicant: TP-LINK TECHNOLOGIES CO., LTD.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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1 Certificate of Conformity

Product: AC1900 Wi-Fi Range Extender

Brand: TP-LINK

Test Model: RE580D

Sample Status: PROTOTYPE

Applicant: TP-LINK TECHNOLOGIES CO., LTD.

Test Date: May 04 to Aug. 20, 2015

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

ANSI C63.10: 2013

(Test Item: 26dB Bandwidth, Occupied Bandwidth)

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :



Date:

June 22, 2016

Wendy Wu / Specialist

Approved by :



Date:

June 22, 2016

May Chen / Manager

2 Test Types and Results

2.1 Bandwidth Measurement

2.1.1 Test Result

26dB Bandwidth:

CDD Mode

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
36	5180	20.51	20.41	20.24
40	5200	20.55	20.42	20.42
48	5240	20.59	20.31	20.31

802.11ac (VHT20)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
36	5180	20.97	20.58	20.62
40	5200	20.80	20.60	20.61
48	5240	20.77	20.63	20.73

802.11ac (VHT40)

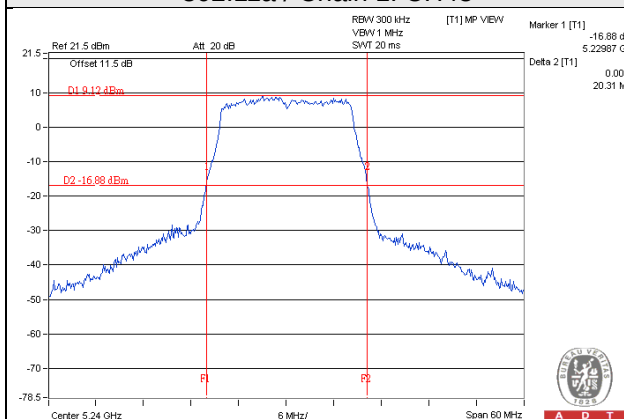
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
38	5190	41.81	41.26	40.84
46	5230	41.47	41.21	41.48

802.11ac (VHT80)

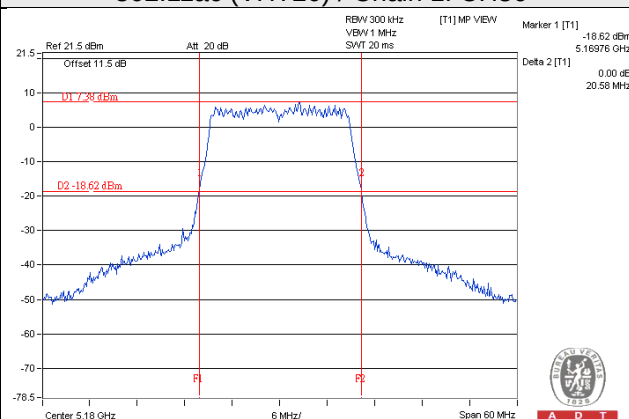
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
42	5210	82.90	82.54	82.55

Spectrum Plot of Worst Value

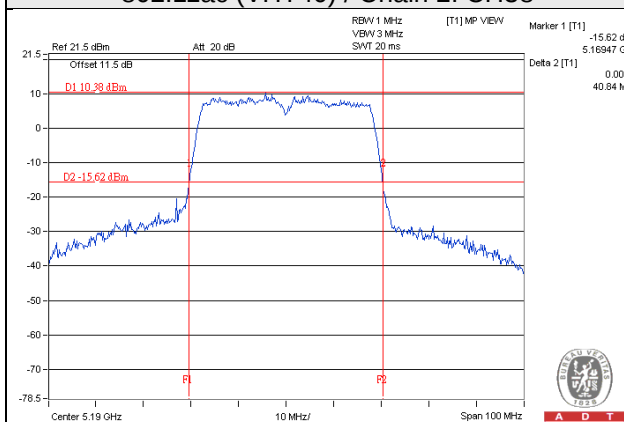
802.11a / Chain 1: CH48



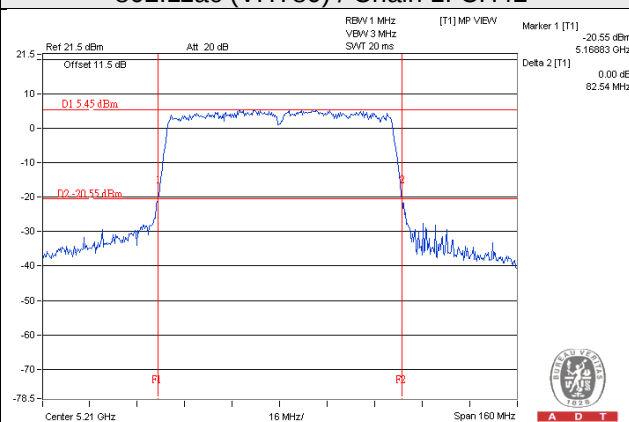
802.11ac (VHT20) / Chain 1: CH36



802.11ac (VHT40) / Chain 2: CH38



802.11ac (VHT80) / Chain 1: CH42



Beamforming Mode

802.11ac (VHT20)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
36	5180	20.83	20.69	20.68
40	5200	20.79	20.52	20.80
48	5240	21.20	20.60	20.74

802.11ac (VHT40)

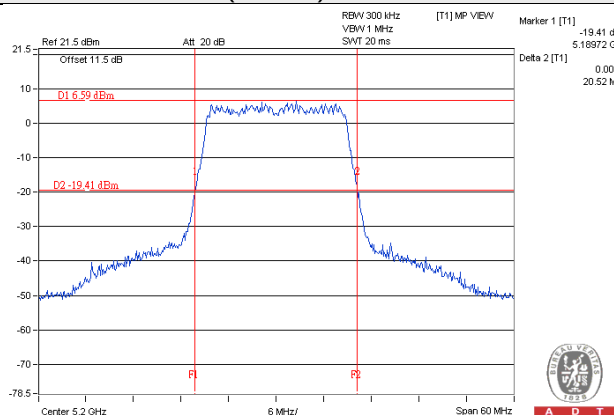
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
38	5190	41.46	41.40	41.02
46	5230	41.30	41.09	41.11

802.11ac (VHT80)

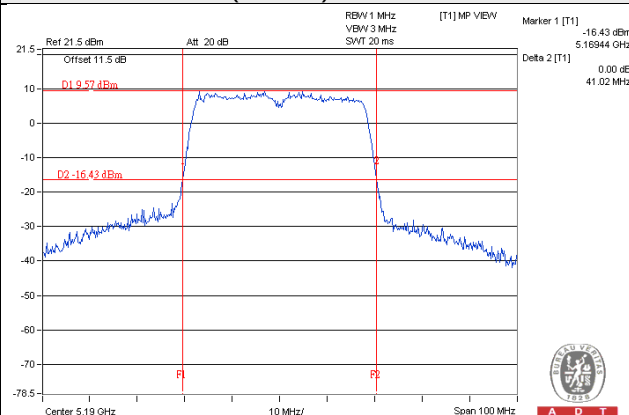
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
42	5210	83.13	82.88	82.03

Spectrum Plot of Worst Value

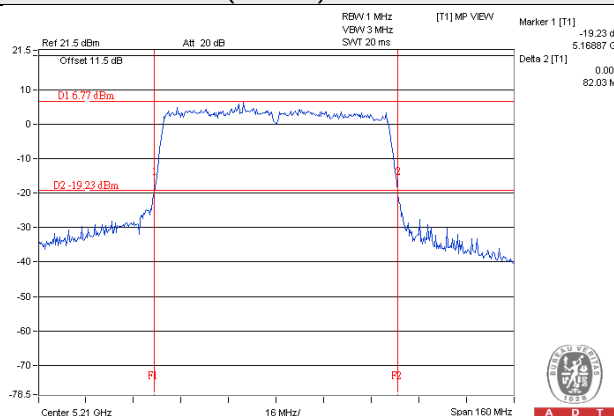
802.11ac (VHT20) / Chain 1: CH40



802.11ac (VHT40) / Chain 2: CH38



802.11ac (VHT80) / Chain 2: CH42



Occupied Bandwidth:

CDD Mode

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
36	5180	16.80	16.80	16.68
40	5200	16.92	16.80	16.68
48	5240	16.80	16.80	16.80

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
36	5180	17.88	17.88	17.88
40	5200	18.00	17.88	17.88
48	5240	17.88	17.88	17.88

802.11ac (VHT40)

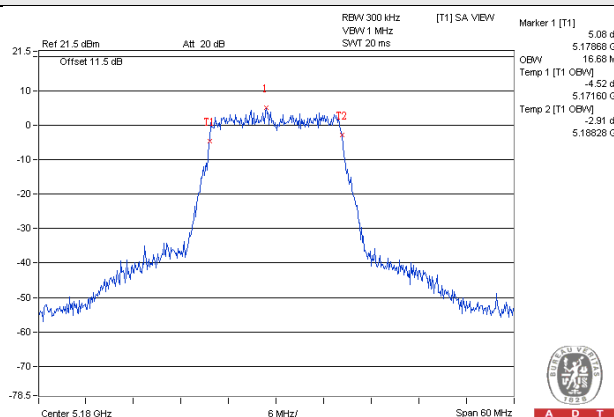
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
38	5190	36.60	36.60	36.80
46	5230	36.60	36.60	36.80

802.11ac (VHT80)

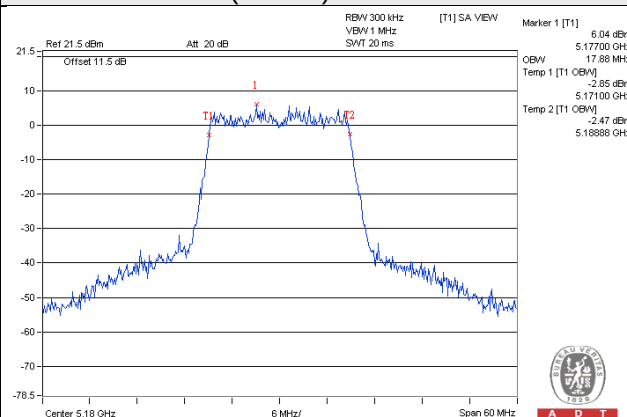
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
42	5210	75.84	75.60	75.84

Spectrum Plot of Worst Value

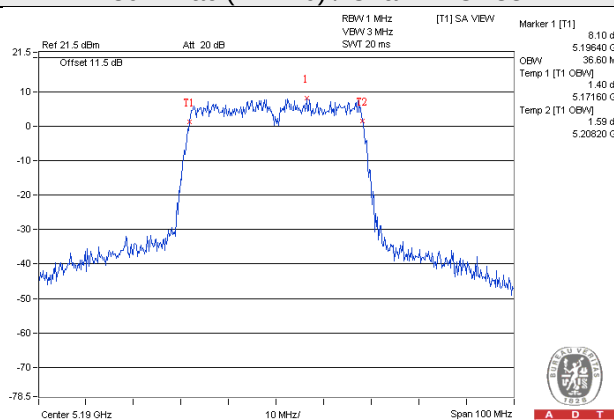
802.11a / Chain 2: CH36



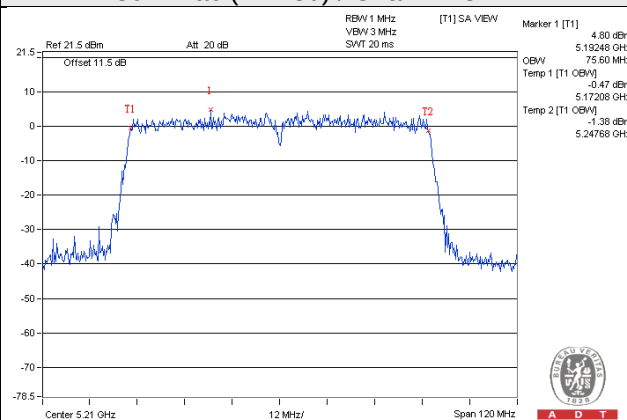
802.11ac (VHT20) / Chain 1: CH36



802.11ac (VHT40) / Chain 1: CH38



802.11ac (VHT80) / Chain 1: CH42



Beamforming Mode

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
36	5180	17.88	17.88	17.88
40	5200	17.88	17.88	17.88
48	5240	17.88	17.88	17.88

802.11ac (VHT40)

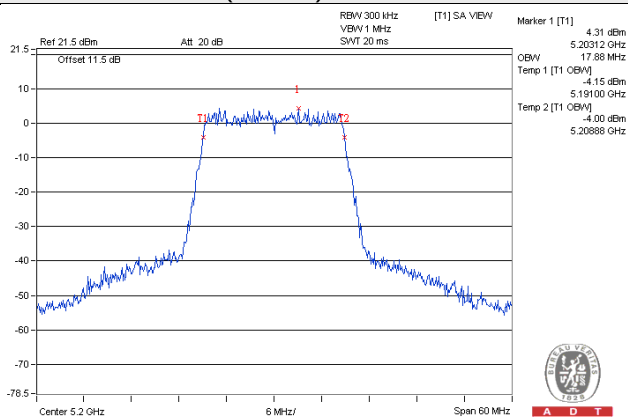
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
38	5190	36.60	36.60	36.60
46	5230	36.60	36.80	36.60

802.11ac (VHT80)

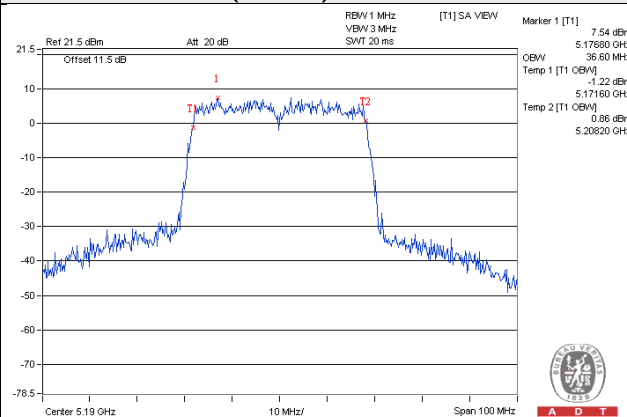
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
42	5210	75.60	75.84	75.84

Spectrum Plot of Worst Value

802.11ac (VHT20) / Chain 1: CH40



802.11ac (VHT40) / Chain 2: CH38



802.11ac (VHT80) / Chain 0: CH42

