



Co-location Report

FCC ID: TE7AX50

APPLICANT: TP-Link Technologies Co., Ltd.

Application Type: Certification

Product: AX3000 Gigabit Wi-Fi 6 Router

Model No.: Archer AX50, Archer AX3000

Brand Name: tp-link

FCC Rule Part(s): FCC Part 15 Subpart C (Section 15.247)
FCC Part15 Subpart E (Section 15.407)

Test Date: April 25 ~ May 24, 2019

Reviewed By:

Paddy Chen

(Paddy Chen)

Approved By:

Chenz Ker

(Chenz Ker)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
1905TW0114-U4	Rev. 01	Initial report	05-25-2019	Valid

1. TEST EQUIPMENT CALIBRATION DATE

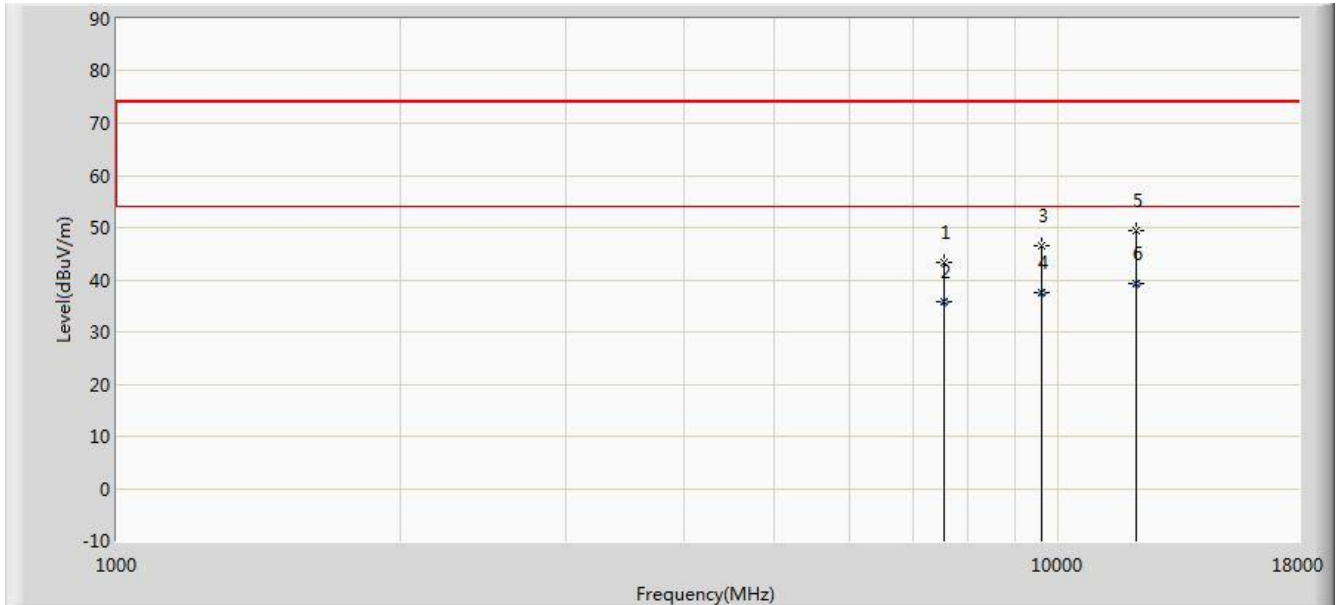
Radiated Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2020/04/29
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2020/05/22
Broadband Hornantenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2020/04/22
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2020/04/23
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2020/04/24
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2020/04/24
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2020/03/26
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2020/03/25
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2019/07/30
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2019/06/18
Temperature/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00032	1 year	2020/05/20

Software	Version	Function
e3	9.160520a	EMI Test Software

2. TEST RESULT of Radiated Emissions for Co-located

Test Mode:	2.4GHz Wi-Fi + 5GHz Wi-Fi Transmit	Test Site:	AC1
Test Engineer:	Kevin Ker	Polarity:	Horizontal
Test Date	2019/05/21		
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			7570.500	43.205	30.459	-30.795	74.000	12.746	PK
2			7570.500	35.866	23.120	-18.134	54.000	12.746	AV
3			9593.500	46.521	31.688	-27.479	74.000	14.833	PK
4			9593.500	37.423	22.590	-16.577	54.000	14.833	AV
5			12109.500	49.555	30.848	-24.445	74.000	18.706	PK
6		*	12109.500	39.197	20.490	-14.803	54.000	18.706	AV

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

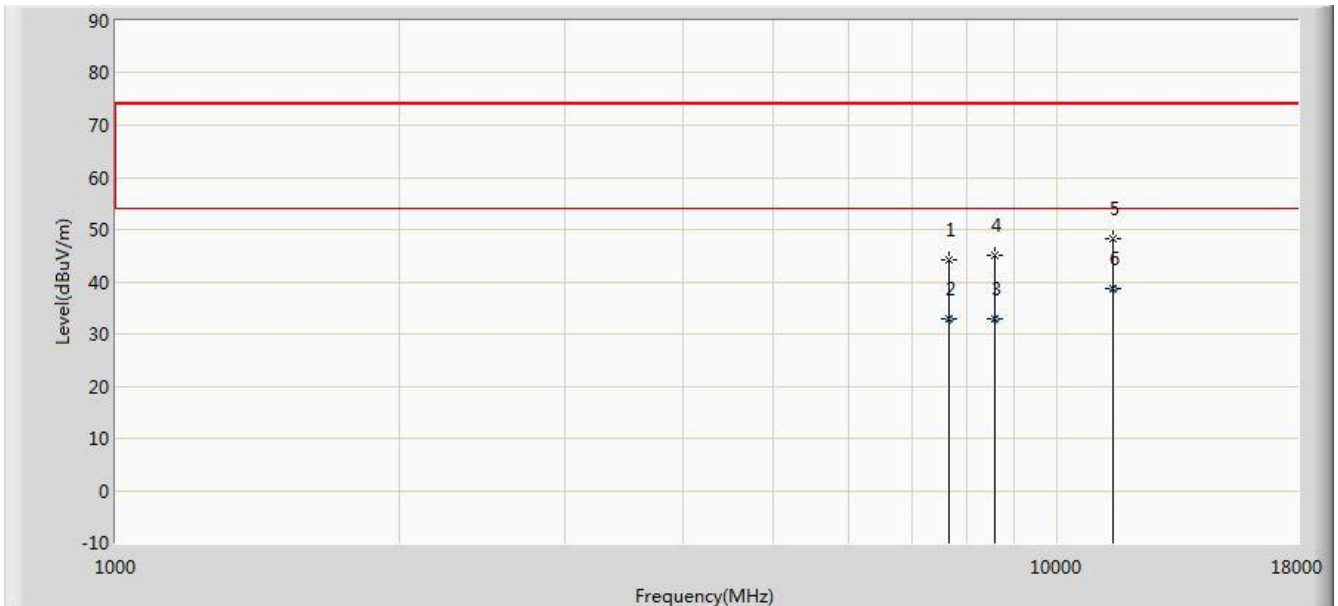
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: We selected the 2.4GHz and 5GHz worst-case mode of radiated spurious emissions in the DTS, DSS and UNII reports.

Note 3: 2.4GHz Wi-Fi 802.11ax-HE20 Channel 2437MHz Power setting = 26;

5GHz Band Wi-Fi 802.11ac-VHT20 Channel 5240MHz Power setting = 26.

Test Mode:	2.4GHz Wi-Fi + 5GHz Wi-Fi Transmit	Test Site:	AC1
Test Engineer:	Kevin Ker	Polarity:	Vertical
Test Date	2019/05/21		
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			7681.000	44.322	31.530	-29.678	74.000	12.792	PK
2			7681.000	32.802	20.010	-21.198	54.000	12.792	AV
3			8590.000	32.906	19.530	-21.094	54.000	13.376	AV
4			8590.500	45.048	31.671	-28.952	74.000	13.377	PK
5			11472.000	48.268	29.028	-25.732	74.000	19.240	PK
6		*	11472.000	38.720	19.480	-15.280	54.000	19.240	AV

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: We selected the 2.4GHz and 5GHz worst-case mode of radiated spurious emissions in the DTS, DSS and UNII reports.

Note 3: 2.4GHz Wi-Fi 802.11ax-HE20 Channel 2437MHz Power setting = 26;

5GHz Band Wi-Fi 802.11ac-VHT20 Channel 5240MHz Power setting = 26.

The End

Appendix A - Test Setup Photograph

Refer to “1905TW0114-UT” file.

Appendix B - EUT Photograph

Refer to “ 1905TW0114-UE” file.