

Annex C – Declaration of RF Exposure Compliance for Exemption from Routine Evaluation Limits

COMPANY NUMBER:	26583
MODEL NUMBER:	AC1200 Whole Home Mesh Wi-Fi System
MANUFACTURER:	TP-Link Corporation Limited
IC CERTIFICATION NUMBER:	26583-E4RV2
HVIN:	Deco E4RV2

2.5.2 Exemption from Routine Evaluation Limits - RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x $10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz; at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

e.i.r.p. calculation:

For 2.4G:

Limit=1.31 x $10^{-2} f^{0.6834}$ =2.70 W f=2437MHz

e.i.r.p. = 28.12 dBm = 0.6486 W < 2.70 W

For 5GHz UNII-1 Non Beamforming:

Limit=1.31 x $10^{-2} f^{0.6834}$ =4.54 W f=5210MHz

e.i.r.p. = 22.66 dBm =0.1845 W < 4.54 W

For 5GHz UNII-3 Non Beamforming:

Limit=1.31 x $10^{-2} f^{0.6834}$ =4.86 W f=5745MHz

e.i.r.p. = 27.20 dBm =0.5248 W < 4.86 W

For 5GHz UNII-1 Beamforming:

Limit=1.31 x $10^{-2} f^{0.6834}$ =4.54 W f=5210MHz

e.i.r.p. = 22.97 dBm =0.1982 W < 4.54 W





For 5GHz UNII-3 Beamforming:

Limit=1.31 x $10^{-2} f^{0.6834}$ =4.86 W f=5745MHz

e.i.r.p. = 26.44 dBm =0.4406 W < 4.86 W

For the max. simultaneous transmission MPE:

e.i.r.p. = e.i.r.p. (2.4G Max.) + e.i.r.p. (5G Max.) = 0.6486 W+0.5248 W =1.1734 W < 2.70 W

ATTESTATION: I attest that the radio communication apparatus meets the exemption from the routine evaluation limits in Section 2.5 of this standard; that the Technical Brief was prepared and the information contained therein is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed; and that the device meets the SAR and/or RF field strength limits of RSS-102(Issue 5, 2015).

Signature:

Rose.Liu

DATE: 2021-02-03

NAME: Rose Liu

TITLE: Supervisor

COMPANY: BTL Inc.

End of Test Report