



FCC REPORT

Report Reference No.: CHTEW20070046

Report Verification:



Project No.....: SHT2006119501EW

FCC ID.....: 2AWTR-03202921

Applicant's name: Philips Goldway(Shenzhen) Industrial Inc.

Address.....: No.2 Keji North 3rd Road, Nanshan District, 518057, Shenzhen, China

Manufacturer.....: Philips Goldway(Shenzhen) Industrial Inc.

Address.....: No.2 Keji North 3rd Road, Nanshan District, 518057, Shenzhen, China

Test item description.....: Wireless Communication Module

Trade Mark.....: PHILIPS

Model/Type reference.....: 989803202921

Listed Model(s): -

Standard.....: FCC Part 2.1091

Date of receipt of test sample.....: Jun. 28, 2020

Date of testing.....: Jun. 29, 2020- Jul. 08, 2020

Date of issue.....: Jul. 09, 2020

Result.....: Pass

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Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

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The test report merely correspond to the test sample.

RF Exposure Evaluation

LIMIT

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500	-	-	f/300	6
1500–100,000	-	-	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	-	-	f/1500	30
1500–100,000	-	-	1.0	30

Note: f = frequency in MHz

EVALUATION METHOD

Transmission formula: $Pd = (P_{out} * G) / (4 * \pi * r^2)$

Where

Pd = power density in mW/cm², **Pout** = output power to antenna in mW, **G** = gain of antenna in linear scale;

Pi = 3.1416, **R** = distance between observation point and center of the radiator in cm

TEST RESULT

☒ **Passed**

☐ **Not Applicable**

Type	Maximum Tune-up (dBm) Conducted Average Power
GSM850	30.71~32.71
PCS1900	27.00~29.00
WCDMA Band I	21.55~23.55
WCDMA Band VIII	21.29~23.29

Type	Conducted Average Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
GSM850	32.71	32.71	0.77398	1.0000	Pass
PCS1900	29.00	29.00	0.33245	1.0000	Pass
WCDMA Band II	23.55	23.55	0.09478	1.0000	Pass
WCDMA Band V	23.29	23.29	0.08846	1.0000	Pass

Note:

- 1) The maximum antenna gain is 3.23dBi
- 2) The exposure evaluation safety distance is 20cm.