

RF Exposure Report

Report No.: SA170203E03A

FCC ID: ZMYDWA0100

Test Model: DWA0100

Series Model: MOD000300

Received Date: Apr. 10, 2017

Test Date: Apr. 22, 2017

Issued Date: July 26, 2017

Applicant: MitraStar Technology Corporation

Address: No. 6, Innovation Rd II, Hsinchu Science Park, Hsinchu 30076, Taiwan

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

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Release Control Record

Issue No.	Description	Date Issued
SA170203E03A	Original release.	July 26, 2017

1 Certificate of Conformity

Product: Media Access Gateway

Brand: technicolor

Test Model: DWA0100

Series Model: MOD000300

Sample Status: PROTOTYPE

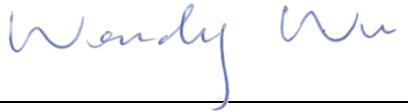
Applicant: MitraStar Technology Corporation

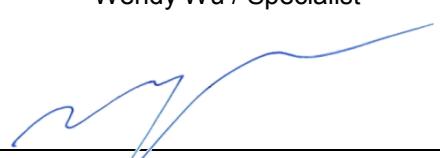
Test Date: Apr. 22, 2017

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

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:** July 26, 2017
Wendy Wu / Specialist


Approved by : _____, **Date:** July 26, 2017
May Chen / Manager

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
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

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

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

2.3 Classification

The antenna of this product, under normal use condition, is at least 30cm away from the body of the user.

So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Ant. No.	Antenna Gain (dBi)	Frequency range (GHz)	Antenna Type	Connector Type
1	2.64	2.4~2.4835	PCB	NA
2	3.43	2.4~2.4835	PCB	NA

2.1 Calculation Result of Maximum Conducted Power

Frequency (MHz)	Max. Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	304.893	6.05	30	0.109	1

NOTE: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 6.05\text{dBi}$

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