RF Exposure Report

Report No.: SA161124E06A

FCC ID: O6L-A7196

Test Model: A7196

Received Date: Nov. 24, 2016

Test Date: Dec. 08, 2016

Issued Date: Dec. 23, 2016

Applicant: TRANWO TECHNOLOGY CORP.

Address: No.236, Sec. 3, Huanbei Rd., Jubei City, Hsinchu County 30265, Taiwan

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

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Table of Contents

Release Control Record

Issue No.	Description	Date Issued
SA161124E06A	Original release.	Dec. 23, 2016

1 Certificate of Conformity

Product:	2.4GHz Digital Audio Video Module
Brand:	TRANWO
Test Model:	A7196
Sample Status:	ENGINEERING SAMPLE
Applicant:	TRANWO TECHNOLOGY CORP.
Test Date:	Dec. 08, 2016
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992

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:** Dec. 23, 2016

Claire Kuan / Specialist

Approved by : _____ , **Date:** Dec. 23, 2016

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				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

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 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

The antennas provided to the EUT, please refer to the following table:

Antenna No.	Antenna Net Gain (dBi)	Frequency range (GHz)	Antenna Type	Antenna Connector
1	2	2.4~2.4835	Dipole	R-SMA
2	-0.8343	2.4~2.4835	Dipole	NA

Note:
1. For Antenna 1 connector is R-SMA, RF cable and antenna is can be separated, RF cable is soldered to the modular.
2. For Antenna 2 is no connector, RF cable is soldered to the modular.

2.5 Calculation Result

Frequency Band (MHz)	Max Power Avg. (dBm)	Max Power Avg. (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (W/m^2)
2408~ 2468	18.00	63.096	2	20	0.01989	1

NOTE: 1. This power include tune-up tolerance range that specified in MP1 Tune Up power table

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