



RF EXPOSURE REPORT

REPORT NO.: SA110615E06B

MODEL NO.: MAX HD2, Device Connector M1, Express,
AP Pro Duo, Air Connector Duo, Air Switch

FCC ID: U8G-P1820

APPLICANT: Pismo Labs Technology Limited

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA110615E06B	Original release	Sep. 08, 2011

1. CERTIFICATION

PRODUCT: Pepwave Wireless Product

BRAND NAME: Pepwave

MODEL: MAX HD2, Device Connector M1, Express,
AP Pro Duo, Air Connector Duo, Air Switch

TEST SAMPLE: R&D SAMPLE

APPLICANT: Pismo Labs Technology Limited

STANDARDS: FCC Part 2 (Section 2.1091)
FCC OET Bulletin 65, Supplement C (01-01)
IEEE C95.1

The above equipment (Model: MAX HD2) 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 : Midoli Peng , **DATE:** Sep. 08, 2011
(Midoli Peng, Specialist)

APPROVED BY : May Chen , **DATE:** Sep. 08, 2011
(May Chen, Deputy Manager)

2. RF EXPOSURE LIMIT

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				
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

3. MPE CALCULATION FORMULA

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE. If we know the maximum Gain of the antenna and the total power input to the antenna, through the calculation, we will know the MPE value at distance 20cm.

Ref. : David K. Cheng, *Field and Wave Electromagnetics*, Second Edition, Page 640, Eq. (11-133).

4. 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**.

5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

For FCC Part 22H:

Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)
251	848.8	1258.9	3	20	0.500	0.566

Note: Limit of Electric field=F/1500

For FCC Part 24E:

Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)
512	1850.2	707.9	3	20	0.281	1

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