RF EXPOSURE REPORT

REPORT NO.:	SA120730E04
MODEL NO.:	MAX BR1, MAX, Surf Pro, AP One, AP Pro, Device Connector, Express, Balance, Pismo 730
FCC ID:	U8G-P1710
RECEIVED:	July 30, 2012
TESTED:	Aug. 13, 2012
ISSUED:	Aug. 28, 2012
APPLICANT:	Pismo Labs Technology Limited
ADDRESS:	1703A, 17/F, Park Building 476 Castle Peak Road Cheung Sha Wan Hong Kong
ISSUED BY:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
LAB ADDRESS:	No. 81-1, Lu Liao Keng, 9th Ling,Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan, R.O.C.

This report should not be used by the client to claim product certification, approval, or endorsement by any government agencies.

TABLE OF CONTENTS

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120730E04	Original release	Aug. 28, 2012

1. CERTIFICATION

PRODUCT:	Pepwave, Peplink, Pismo Wireless Product
BRAND NAME:	Pepwave, Peplink, Pismo
MODEL NO.:	MAX BR1, MAX, Surf Pro, AP One, AP Pro, Device Connector, Express, Balance, Pismo 730
TEST SAMPLE:	R&D SAMPLE
APPLICANT:	Pismo Labs Technology Limited
TESTED DATE:	Aug. 13, 2012
STANDARDS:	FCC Part 2 (Section 2.1091)
	FCC OET Bulletin 65, Supplement C (01-01)
	IEEE C95.1

The above equipment (Model: MAX BR1) 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 : Phoenix Huang , **DATE:** Aug. 28, 2012
(Phoenix Huang, Specialist)

APPROVED BY : , **DATE:** Aug. 28, 2012
(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				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

3. 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

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 WiFi :

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)
6	2437	977.237	5.1	20	0.62911	1.00

For LTE module: FCC ID (N7NMC7700)

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)
190	836.6	501.187	2	20	0.15803	0.5577

Note: 1. Limit of Electric field=F/1500
2. The LTE output power is frame average power.

CONCLUSION:

The WiFi and LTE module can transmit simultaneously, the formula of calculated the MPE is:

$CPD_1 / LPD_1 + CPD_2 / LPD_2$ + ……etc. < 1

CPD = Calculation power density

LPD = Limit of power density

Therefore, the worst-case situation is 0.62911 / 1 + 0.15803 / 0.5577 = 0.912, which is less than “1”. This confirmed that the device comply with FCC 1.1310 MPE limit.

--- END ---