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Report No.: SZEMO10040224502

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## RF Exposure Evaluation declaration

**Application No.:** SZEMO100402245RF  
**Applicant:** D-Parts Mobilphone & Zubehor GmbH  
**Address of Applicant:** Birkenweiher str. 16,63505 Langenselbold, Germany.  
**Manufacturer:** Asia Innomax Wireless Co.Ltd  
**Address of Manufacturer:** 604B,No.17-19<sup>th</sup>.shajidongyue,Lu er san Rd,Liwan District,GZ,China  
**Factory** Shenzhen Yecon Industry L.,TD  
**Address of Factory:** 3<sup>RD</sup> floor,Bld"B",Northern Jun Yi Industrial Zone,Cuigang,FuYong  
BaoAn,Shenzhen,China  
**FCC ID:** VAE-PAGO  
**Fundamental Carrier Frequency :** 2.402GHz-2.480 GHz  
**Equipment Under Test (EUT):**  
Name: Pago  
Trade Mark: N/A  
Model: INBTHF020  
**Date of Receipt:** 2010-04-29  
**Date of Test:** 2010-05-05 to 2010-06-28  
**Date of Issue:** 2010-10-25

<b>Test Result :</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Jack Zhang  
Laboratory Manager

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## 1 RF Exposure Evaluation

### 1.1 Limits

According to FCC 1.1310: 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 <sup>2</sup> )	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	300

F = Frequency in MHz

Friis Formula

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

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



## 1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

## 1.3 Test Result of RF Exposure Evaluation

Product : Pogo

Test Item : INBTHF020

Test Site : No.3 OATS

Antenna Gain: -2dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0.63 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )
Highest	2480	1.48	1.406	0.000176

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.