

## RF EXPOSURE REPORT

**REPORT NO.:** SA130516C07

MODEL NO.: NSZ-GU1

FCC ID: PU5NSZGU1

**RECEIVED:** May 16, 2013

**TESTED:** May 21, 2013

**ISSUED:** Jun. 04, 2013

**APPLICANT:** Wistron Corporation

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**ISSUED BY:** Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

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New Taipei City, Taiwan, R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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## **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130516C07	Original release.	Jun. 04, 2013

Report No.: SA130516C07 3 of 6 Report Format Version 5.0.0



### 1. CERTIFICATION

**PRODUCT:** Internet Player

MODEL: NSZ-GU1

**BRAND**: Sony

**APPLICANT:** Wistron Corporation

**TESTED:** May 21, 2013

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

**IEEE C95.1** 

The above equipment (Model: NSZ-GU1) 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: Suntee Liu / Specialist , DATE: Jun. 04, 2013

APPROVED BY: \_\_\_\_\_\_\_\_, DATE: \_\_\_\_\_\_\_, DATE: \_\_\_\_\_\_\_\_, Jun. 04, 2013



#### 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/cm²)	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\*r2)

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



#### 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

#### **WLAN:**

FREQUENCY BAND (MHZ)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm²)
2412-2462	23.34	3.08	20	0.087	1

#### **Bluetooth:**

FREQUENCY BAND (MHZ)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2402-2480	4.64	0.09	20	0.001	1

#### **CONCULSION:**

The WLAN & Bluetooth can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + .....etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WLAN + Bluetooth = 0.087 + 0.001 = 0.088

Therefore, the maximum calculation of this situation is 0.088, which is less than the "1" limit.

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