# RF Exposure Evaluation Report

| | |
|---|---|
| **Product:** | 3D Bluetooth Glasses |
| **FCC ID:** | A4GESG808 |
| **Brand Name:** | N/A |
| **Applicant:** | ESTAR DISPLAY TECHCO.,LTD |
| **Address:** | 16F Hall A, GDC Building, 9 Gaoxin Central Avenue 3rd, Nanshan District, Shenzhen, China |
| **Issued by:** | CCIC-SET |
| **Lab Location:** | Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen, 518055, P. R. China<br>**Tel:** 86 755 26627338 **Fax:** 86 755 26627238 |

# Test Report

| | |
|---|---|
| **Report No.** .....: | SET2013-03398 |
| **Product**.....: | 3D Bluetooth Glasses |
| **Model No.** .....: | ESG808, GX33AB |
| **Applicant**.....: | ESTAR DISPLAY TECHCO.,LTD |
| **Applicant Address**.....: | 16F Hall A, GDC Building, 9 Gaoxin Central Avenue 3rd, Nanshan District, Shenzhen, China |
| **Manufacturer**.....: | ESTAR DISPLAY TECHCO.,LTD |
| **Manufacturer Address**.....: | 16F Hall A, GDC Building, 9 Gaoxin Central Avenue 3rd, Nanshan District, Shenzhen, China |
| **Test Result** .....: | Pass |

**Tested by** .....:

Lu Lei July 1. 2013

Lu Lei, Test Engineer

**Reviewed by**.....:

Shuangwen Zhang July. 1. 2013

Shuangwen Zhang, Senior Engineer

**Approved by**.....:

July 1. 2013

Wu Li'an, Manager

# Table of Contents

# 1 .General Information

## 1.1 Description of EUT

| Product Feature & Specification | |
|---|---|
| **DUT Type** | 3D Bluetooth Glasses |
| **Model Name** | ESG808, GX33AB |
| **FCC ID** | A4GESG808 |
| **Frequency** | Bluetooth:2402MHz – 2480MHz |
| **Antenna Type** | PCB |
| **Antenna Gain** | 1.87dBi |
| **HW Version** | N.A |
| **SW Version** | N.A |
| **Test of Modulation** | GFSK |

**Remark 1:** The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.2 Test specifications

| | |
|---|---|
| ANSI Std C95.1-1992 | Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3KHz-300GHz.(IEEE Std C95.1-1992) |
| RSS-102 | Radio Frequency Exposure Compliance of Radiocommunication Apparatus （All Frequency Bands （Issue 4 of March 2010）） |
| KDB 447498 D01V05 | General RF Exposure Guidance |

## 2 RF Exposure Limit Introduction

According to 447498 D01 section 4.3.1General RF Exposure Guidance v05, exclusion threshold values at selected frequencies and distances table as following:

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [ √ f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation17

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

## 3 Conducted RF Output Power

| Channel | 0 | 39 | 78 |
|---|---|---|---|
| Frequency(MHz) | 2402 | 2441 | 2480 |
| Power(dBm) | -2.57 | -2.77 | -3.03 |
| Power(mW) | 0.553 | 0.528 | 0.498 |

## 4.RF Exposure Evaluation

MPE= [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)]=[0.553mW/5mm)]* √2.402GHz=0.171≤ 3.0

Result:PASS

** END OF REPORT **