

RF Exposure Evaluation Report

Equipment : ECU

Brand Name : Gogoro

Model No. : 38700-BA2

FCC ID : 2AGYWGOGORO2

Standard : 47 CFR Part 2.1091

Applicant / : gogoro taiwan limited

Manufacturer 33, Dinghu Rd., Guishan, Taoyuan, Taiwan 33378

The product sample received on Mar. 28, 2017 and completely tested on Apr. 11, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with 47 CFR Part 2.1091, and pass the limit.

Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Kevin Liang/ Assistant Manager SPORTON INTERNATIONAL INC.





Report No.: FA732463

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Issued Date : Dec. 15, 2017



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#### **PHOTOGRAPHS OF EUT V02**

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## **REVISION HISTORY**

REPORT NO. VERSION		DESCRIPTION	ISSUED DATE		
FA732463	Rev. 01	Initial issue of report	Dec. 06, 2017		
FA732463	Rev. 02	Revise PHOTOGRAPHS OF EUT	Dec. 15, 2017		

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# 1 General Description

### 1.1 EUT General Information

RF General Information					
Evaluation Mode	Range		Modulation Type		
Bluetooth	2400-2483.5	2402-2480	LE: DSSS (GFSK)		

# 1.2 Testing Location

	Testing Location							
$\boxtimes$	HWA YA	ADD	: No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)					
		TEL	:	886-3-327-3456 TEL : 886-3-327-0973				
	JHUBEI	ADD	:	No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)				
		TEL	:	886-3-656-9065 TEL : 886-3-656-9065				

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## 2 Maximum Permissible Exposure

### 2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	nge Electric Field Magnetic Field Strength (E) (V/m) Strength (H) (A/m)		Power Density (S) (mW/ cm²)	Averaging Time  E ², H ² or S (minutes)	
0.3-3.0	614	1.63	(100)*	6	
3.0-30	1842 / f	4.89 / f	(900 / f <sup>2</sup> )*	6	
30-300	61.4	0.163	1.0	6	
300-1500	-	-	F/300	6	
1500-100,000	-	-	5	6	

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time  E ², H ² or S (minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30	
30-300	27.5	0.073	0.2	30	
300-1500	-	-	F/1500	30	
1500-100,000	-	-	1.0	30	

Note: f = frequency in MHz; \*Plane-wave equivalent power density

#### 2.2 MPE Calculation Method

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

E (V/m) = 
$$\frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density:  $Pd$  (W/m²) =  $\frac{E^2}{377}$ 

**E** = Electric field (V/m)

**P** = RF output power (W)

**G** = EUT Antenna numeric gain (numeric)

**d** = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

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### RF Exposure Evaluation Report

### 2.3 Calculated Result and Limit

**Exposure Environment: General Population / Uncontrolled Exposure** 

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
2.4G;BT-LE	2.72	-0.02	2.70	0.00186	20	0.00037	1.00000

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