



# FCC TEST REPORT

## FCC ID: 2ASPB-CELL

|   |   |   |
|---|---|---|
| Product   | : | CELL  |
| Model Name  | : | UVC1,UVCBK115,UVCGL115,UVCRE115<br>Note: (All samples are the same except for the appearance color and model number.) |
| Brand   | : | Ampere  |
| Report No.  | : | PTC20082600701E-FC02  |
| <b>Prepared for</b>   |   |   |
| GOGOTORO LLC  |   |   |
| 60 Broadway 10M Brooklyn NY 11249 USA   |   |   |
| <b>Prepared by</b>  |   |   |
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## TEST RESULT CERTIFICATION

Applicant's name : GOGOTORO LLC  
Address : 60 Broadway 10M Brooklyn NY 11249 USA  
Manufacture's name : Ampere LLC  
Address : 8 the Green, Suite A, Dover DE USA 19901  
Product name : CELL  
Model name : UVC1,UVCBK115,UVCGL115,UVCRE115  
Note: (All samples are the same except for the appearance color and model number.)  
Test procedure : KDB680106 D01 RF Exposure Wireless Charging Apps v03  
Test Date : Sep 01, 2020 to Sep 16, 2020  
Date of Issue : Sep 16, 2020  
Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink that reads "Leo Yang".

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that reads "Chris Du".

Chris Du / Manager



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## 2 Test Summary

| Test Items  | Test Requirement | Result |
|---|------------------|--------|
| Maximum Permissible Exposure<br>(Exposure of Humans to RF Fields) | 1.1307(b)(1)     | PASS   |
| Remark:   |                  |        |
| N/A: Not Applicable   |                  |        |

### 2.1 Test Equipment List

| Item | Equipment             | Manufacturer | Model No. | Serial No. | Last Cal.     | Cal. Interval |
|------|-----------------------|--------------|-----------|------------|---------------|---------------|
| 1    | Exposure Level Tester | NARDA        | ELT-400   | N-0713     | Aug. 21, 2021 | 3 Year        |
| 2    | B-Fied probe          | NARDA        | ELT-400   | M-1154     | Aug. 21, 2021 | 3 Year        |



### 3 General Information

#### 3.1 General Description of E.U.T.

|                      |   |   |
|----------------------|---|---|
| Product Name         | : | CELL  |
| Model Name           | : | UVC1,UVCBK115,UVCGL115,UVCRE115<br>Note: (All samples are the same except for the appearance color and model number.) |
| Operation Frequency  | : | 110.1-205KHz  |
| Type of Modulation   | : | ASK   |
| Antenna installation | : | Inductive loop coil Antenna   |
| Antenna Gain         | : | 0 dBi   |
| Power supply         | : | Input:PD5V,3A/PD9V,2A<br>USB C Output:DC 5V, 2A   |
| Hardware Version     | : | N/A   |
| Software Version     | : | N/A   |



## 4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

### 4.1 Requirements

According to the item 5.b) of KDB 680106 D01v03:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

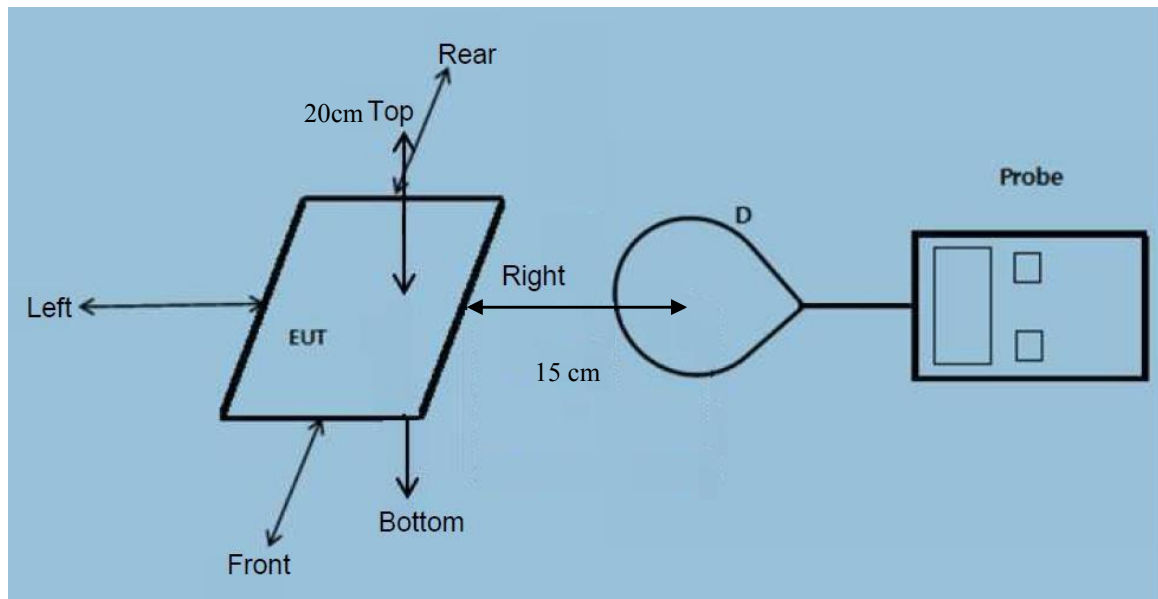
- 1) Power transfer frequency is less than 1 MHz
- 2) Output power from each primary coil is less than or equal to 15 watts.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
- 4) Client device is inserted in or placed directly in contact with the transmitter
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

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> ) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>        |                               |                               |                                     |                          |
| 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>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 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                       |

F=frequency in MHz  
 \*=Plane-wave equivalent power density  
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

## 4.2 Test Setup





Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

### 4.3 Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.(A is the right, B is the back, C is the left, D is the front, and E is the top.)
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

Remark;

The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

### 4.4 Test Result

Equipment Approval Considerations item 5.b of KDB 680106 D01 v03.

- 1) Power transfer frequency is less than 1 MHz
  - The device operate in the frequency range 110.1~205KHz
- 2) Output power from each primary coil is less than 15 watts
  - The maximum output power of the primary coil is 15W.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
  - The transfer system including a charging system with two primary coils is to detect and allow only between individual pairs of coils.Only one coil works at a time.
- 4) Client device is inserted in or placed directly in contact with the transmitter
  - Client device is placed directly in contact with the transmitter.
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
  - Conducted the measurement with the required distance and the test results please refer to the section 2.4.2





Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310

|              |          |                    |                           |
|--------------|----------|--------------------|---------------------------|
| Temperature: | 23.8°C   | Relative Humidity: | 54%                       |
| Pressure:    | 1012 hPa | Test Voltage:      | AC 120V, 60Hz for adapter |

E-

F-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

| Battery power | Frequency Range (KHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limit (V/m) | Limits Test (V/m) |
|---------------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| 1%            | 110.1~205             | 0.68            | 0.26            | 0.62            | 0.56            | 0.55            | 307                   | 614               |
| 50%           | 110.1~205             | 1.23            | 1.36            | 1.33            | 1.25            | 1.75            | 307                   | 614               |
| 99%           | 110.1~205             | 2.49            | 2.66            | 2.42            | 2.82            | 2.98            | 307                   | 614               |
| Stand-by      | 110.1~205             | 0.32            | 0.85            | 0.53            | 0.95            | 0.87            | 307                   | 614               |



H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

| Battery power | Frequency Range (KHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limit (A/m) | Limits Test (A/m) |
|---------------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| 1%            | 110.1~205             | 0.023           | 0.035           | 0.038           | 0.062           | 0.048           | 0.815                 | 1.63              |
| 50%           | 110.1~205             | 0.12            | 0.43            | 0.47            | 0.48            | 0.39            | 0.815                 | 1.63              |
| 99%           | 110.1~205             | 0.32            | 0.35            | 0.25            | 0.26            | 0.49            | 0.815                 | 1.63              |
| Stand-by      | 110.1~205             | 0.43            | 0.62            | 0.38            | 0.16            | 0.47            | 0.815                 | 1.63              |

Remark: All the conditions have been tested. It is found that 15W is the worst mode, and the data in the report only reflects the worst mode.



## APPENDIX I -- TEST SETUP PHOTOGRAPH



**\*\*\*\*\*THE END REPORT\*\*\*\*\***