

## RF EXPOSURE REPORT



**FCC Applicant:** Quanta Computer Inc  
No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377,  
Taiwan (R.O.C)  
**Product Name:** All-in-One PC  
**Brand Name:** HP  
**Model No.:** TPC-Q088-27  
**Model Difference:** N/A  
**Report Number:** ER/2021/50037  
**FCC ID** HFSQTA-N1DP  
**Issue Date:** June 18, 2021  
**Date of EUT Received:** May 11, 2021

Approved By

John Yeh

**We hereby certify that:**

The above equipment was verified by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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## Revision History

| Report Number | Revision | Description | Issue Date    | Revised By  |
|---------------|----------|-------------|---------------|-------------|
| ER/2021/50037 | 00       | Original    | June 18, 2021 | Ariel Chang |
|               |          |             |               |             |
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|               |          |             |               |             |

**Note:**

- 1、Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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## 1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

### 1.1 Product Description

|                   |                             |
|-------------------|-----------------------------|
| Product Name:     | All-in-One PC               |
| Brand Name:       | HP                          |
| Model No.:        | TPC-Q088-27                 |
| Model Difference: | N/A                         |
| Hardware Version: | N/A                         |
| Firmware Version: | N/A                         |
| Power Supply:     | 19.5 Vdc from AC/DC Adapter |

### 1.2 Test Facility

| Laboratory                                            | Test Site Address                   |                                                                                           | FCC Designation number |
|-------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------|------------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | <input checked="" type="checkbox"/> | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | TW0027                 |
|                                                       | <input type="checkbox"/>            | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333                            | TW0028                 |

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## 2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 2.1 Standard Applicable

According to KDB 680106 D01 RF Exposure Wireless Charging App v03

RF exposure potential to users and bystanders is expected to vary according to factors inherent to the design of individual systems, which generally requires different evaluation considerations to show compliance.

When exposure concerns arise; for example, due to evolving products and operations, RF exposure evaluation may be requested under the provisions of Sections 1.1307 (c) and (d) to determine compliance. Because of significant variations in design and operating characteristics, the procedures required to evaluate RF exposure compliance for wireless power transfer are considered according to the exposure potentials of individual implementations

The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Sections 2.1091 and 2.1093 of the rules. SAR and MPE limits do not cover the frequency range for wireless power transfer applications which operate below 100 kHz and 300 kHz respectively; therefore, RF exposure compliance needs to be determined with respect to Sections 1.1307 (c) and (d) of the FCC rules.

### 2.2 Limits for Maximum Permissible Exposure (MPE)

Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

TABLE 1—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 Exposure</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                        |
| 300-1,500                                                      |                               |                               | f/300                               | 6                        |
| 1,500-100,000                                                  |                               |                               | 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                       |
| 300-1,500                                                      |                               |                               | f/1500                              | 30                       |
| 1,500-100,000                                                  |                               |                               | 1.0                                 | 30                       |

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

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## 2.3 The Worst Charging Condition:

| Ancillary Equipment                                                                                                                                                           | Charging Condition | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|
| Load                                                                                                                                                                          | Full Loading       | PASS    |
| Load                                                                                                                                                                          | 99% Loading        | PASS    |
| Load                                                                                                                                                                          | 50% Loading        | PASS    |
| Load                                                                                                                                                                          | 1% Loading         | PASS    |
| Note: For Wireless Power Consortium Qi specification, a lower operating frequency or high duty cycle result in the transfer of a higher amount of power and charging current. |                    |         |

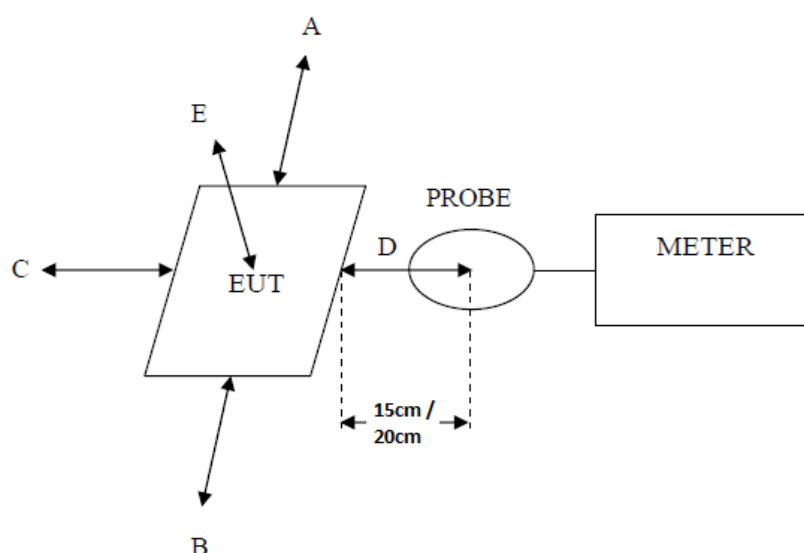
## 2.4 Measurement Procedure:

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with proper distances measured from the center of the probe(s) to the edge of the device as per KDB 680106 D01.

## 2.5 Measurement Equipment Used:

| EQUIPMENT TYPE     | MFR               | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
|--------------------|-------------------|--------------|---------------|------------|------------|
| EM RADIATION METER | Wandel&Goltermann | EMR-30       | M-0006        | 2020/10/08 | 2021/10/07 |

## 2.6 Test Set-up:



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## 2.7 Maximum Permissible Exposure (MPE) Evaluation:

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| full | Maximum Permissible Exposure |               |      |        |
|------|------------------------------|---------------|------|--------|
|      | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|      | Front                        | 10 cm         | 0.65 | 0.0018 |
|      | Back                         | 10 cm         | 0.76 | 0.0021 |
|      | Left                         | 10 cm         | 0.88 | 0.0023 |
|      | Right                        | 10 cm         | 0.93 | 0.0025 |
|      | Top                          | 10 cm         | 0.61 | 0.0014 |
|      | Bottom                       | 10 cm         | 0.48 | 0.0010 |
|      | Limit                        |               | 614  | 0.815  |

| 99% | Maximum Permissible Exposure |               |      |        |
|-----|------------------------------|---------------|------|--------|
|     | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|     | Front                        | 10 cm         | 0.64 | 0.0020 |
|     | Back                         | 10 cm         | 0.74 | 0.0024 |
|     | Left                         | 10 cm         | 0.89 | 0.0023 |
|     | Right                        | 10 cm         | 0.94 | 0.0024 |
|     | Top                          | 10 cm         | 0.63 | 0.0018 |
|     | Bottom                       | 10 cm         | 0.51 | 0.0013 |
|     | Limit                        |               | 614  | 0.815  |

| 90% | Maximum Permissible Exposure |               |      |        |
|-----|------------------------------|---------------|------|--------|
|     | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|     | Front                        | 10 cm         | 0.62 | 0.0023 |
|     | Back                         | 10 cm         | 0.75 | 0.0022 |
|     | Left                         | 10 cm         | 0.86 | 0.0021 |
|     | Right                        | 10 cm         | 0.92 | 0.0025 |
|     | Top                          | 10 cm         | 0.61 | 0.0020 |
|     | Bottom                       | 10 cm         | 0.53 | 0.0015 |
|     | Limit                        |               | 614  | 0.815  |

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| 50% | Maximum Permissible Exposure |               |      |        |
|-----|------------------------------|---------------|------|--------|
|     | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|     | Front                        | 10 cm         | 0.66 | 0.0025 |
|     | Back                         | 10 cm         | 0.77 | 0.0025 |
|     | Left                         | 10 cm         | 0.89 | 0.0024 |
|     | Right                        | 10 cm         | 0.95 | 0.0027 |
|     | Top                          | 10 cm         | 0.64 | 0.0023 |
|     | Bottom                       | 10 cm         | 0.57 | 0.0019 |
|     | Limit                        |               | 614  | 0.815  |

| 10% | Maximum Permissible Exposure |               |      |        |
|-----|------------------------------|---------------|------|--------|
|     | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|     | Front                        | 10 cm         | 0.67 | 0.0026 |
|     | Back                         | 10 cm         | 0.75 | 0.0027 |
|     | Left                         | 10 cm         | 0.86 | 0.0028 |
|     | Right                        | 10 cm         | 0.93 | 0.0027 |
|     | Top                          | 10 cm         | 0.63 | 0.0023 |
|     | Bottom                       | 10 cm         | 0.55 | 0.0021 |
|     | Limit                        |               | 614  | 0.815  |

| 1% | Maximum Permissible Exposure |               |      |        |
|----|------------------------------|---------------|------|--------|
|    | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|    | Front                        | 10 cm         | 0.70 | 0.0027 |
|    | Back                         | 10 cm         | 0.77 | 0.0023 |
|    | Left                         | 10 cm         | 0.91 | 0.0026 |
|    | Right                        | 10 cm         | 0.96 | 0.0027 |
|    | Top                          | 10 cm         | 0.65 | 0.0025 |
|    | Bottom                       | 10 cm         | 0.57 | 0.0023 |
|    | Limit                        |               | 614  | 0.815  |

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| full | Maximum Permissible Exposure |               |      |        |
|------|------------------------------|---------------|------|--------|
|      | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|      | Front                        | 15 cm         | 0.52 | 0.0012 |
|      | Back                         | 15 cm         | 0.71 | 0.0019 |
|      | Left                         | 15 cm         | 0.85 | 0.0021 |
|      | Right                        | 15 cm         | 0.91 | 0.0025 |
|      | Top                          | 15 cm         | 0.54 | 0.0012 |
|      | Bottom                       | 15 cm         | 0.44 | 0.0013 |
|      | Limit                        |               | 614  | 0.815  |

| 99% | Maximum Permissible Exposure |               |      |        |
|-----|------------------------------|---------------|------|--------|
|     | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|     | Front                        | 15 cm         | 0.51 | 0.0012 |
|     | Back                         | 15 cm         | 0.69 | 0.0019 |
|     | Left                         | 15 cm         | 0.86 | 0.0021 |
|     | Right                        | 15 cm         | 0.91 | 0.0025 |
|     | Top                          | 15 cm         | 0.54 | 0.0012 |
|     | Bottom                       | 15 cm         | 0.44 | 0.0013 |
|     | Limit                        |               | 614  | 0.815  |

| 90% | Maximum Permissible Exposure |               |      |        |
|-----|------------------------------|---------------|------|--------|
|     | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|     | Front                        | 15 cm         | 0.52 | 0.0013 |
|     | Back                         | 15 cm         | 0.68 | 0.0021 |
|     | Left                         | 15 cm         | 0.87 | 0.0019 |
|     | Right                        | 15 cm         | 0.92 | 0.0023 |
|     | Top                          | 15 cm         | 0.53 | 0.0014 |
|     | Bottom                       | 15 cm         | 0.44 | 0.0012 |
|     | Limit                        |               | 614  | 0.815  |

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| 50% | Maximum Permissible Exposure |               |      |        |
|-----|------------------------------|---------------|------|--------|
|     | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|     | Front                        | 15 cm         | 0.53 | 0.0011 |
|     | Back                         | 15 cm         | 0.67 | 0.0024 |
|     | Left                         | 15 cm         | 0.84 | 0.0021 |
|     | Right                        | 15 cm         | 0.91 | 0.0025 |
|     | Top                          | 15 cm         | 0.54 | 0.0016 |
|     | Bottom                       | 15 cm         | 0.47 | 0.0014 |
|     | Limit                        |               | 614  | 0.815  |

| 10% | Maximum Permissible Exposure |               |      |        |
|-----|------------------------------|---------------|------|--------|
|     | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|     | Front                        | 15 cm         | 0.53 | 0.0012 |
|     | Back                         | 15 cm         | 0.72 | 0.0021 |
|     | Left                         | 15 cm         | 0.85 | 0.0023 |
|     | Right                        | 15 cm         | 0.89 | 0.0024 |
|     | Top                          | 15 cm         | 0.55 | 0.0012 |
|     | Bottom                       | 15 cm         | 0.52 | 0.0014 |
|     | Limit                        |               | 614  | 0.815  |

| 1% | Maximum Permissible Exposure |               |      |        |
|----|------------------------------|---------------|------|--------|
|    | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|    | Front                        | 15 cm         | 0.54 | 0.0014 |
|    | Back                         | 15 cm         | 0.74 | 0.0022 |
|    | Left                         | 15 cm         | 0.89 | 0.0025 |
|    | Right                        | 15 cm         | 0.93 | 0.0027 |
|    | Top                          | 15 cm         | 0.57 | 0.0014 |
|    | Bottom                       | 15 cm         | 0.55 | 0.0015 |
|    | Limit                        |               | 614  | 0.815  |

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| full | Maximum Permissible Exposure |               |      |        |
|------|------------------------------|---------------|------|--------|
|      | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|      | Front                        | 20 cm         | 0.51 | 0.0011 |
|      | Back                         | 20 cm         | 0.69 | 0.0015 |
|      | Left                         | 20 cm         | 0.82 | 0.0018 |
|      | Right                        | 20 cm         | 0.84 | 0.0023 |
|      | Top                          | 20 cm         | 0.64 | 0.0024 |
|      | Bottom                       | 20 cm         | 0.67 | 0.0021 |
|      | Limit                        |               | 614  | 0.815  |

| 99% | Maximum Permissible Exposure |               |      |        |
|-----|------------------------------|---------------|------|--------|
|     | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|     | Front                        | 20 cm         | 0.52 | 0.0012 |
|     | Back                         | 20 cm         | 0.71 | 0.0016 |
|     | Left                         | 20 cm         | 0.84 | 0.0018 |
|     | Right                        | 20 cm         | 0.85 | 0.0022 |
|     | Top                          | 20 cm         | 0.65 | 0.0025 |
|     | Bottom                       | 20 cm         | 0.65 | 0.0023 |
|     | Limit                        |               | 614  | 0.815  |

| 90% | Maximum Permissible Exposure |               |      |        |
|-----|------------------------------|---------------|------|--------|
|     | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|     | Front                        | 20 cm         | 0.52 | 0.0012 |
|     | Back                         | 20 cm         | 0.71 | 0.0016 |
|     | Left                         | 20 cm         | 0.84 | 0.0018 |
|     | Right                        | 20 cm         | 0.85 | 0.0022 |
|     | Top                          | 20 cm         | 0.65 | 0.0025 |
|     | Bottom                       | 20 cm         | 0.65 | 0.0023 |
|     | Limit                        |               | 614  | 0.815  |

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| 50% | Maximum Permissible Exposure |               |      |        |
|-----|------------------------------|---------------|------|--------|
|     | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|     | Front                        | 20 cm         | 0.51 | 0.0013 |
|     | Back                         | 20 cm         | 0.68 | 0.0016 |
|     | Left                         | 20 cm         | 0.82 | 0.0024 |
|     | Right                        | 20 cm         | 0.83 | 0.0027 |
|     | Top                          | 20 cm         | 0.58 | 0.0030 |
|     | Bottom                       | 20 cm         | 0.61 | 0.0032 |
|     | Limit                        |               | 614  | 0.815  |

| 10% | Maximum Permissible Exposure |               |      |        |
|-----|------------------------------|---------------|------|--------|
|     | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|     | Front                        | 20 cm         | 0.52 | 0.0014 |
|     | Back                         | 20 cm         | 0.71 | 0.0018 |
|     | Left                         | 20 cm         | 0.84 | 0.0022 |
|     | Right                        | 20 cm         | 0.85 | 0.0025 |
|     | Top                          | 20 cm         | 0.61 | 0.0031 |
|     | Bottom                       | 20 cm         | 0.63 | 0.0032 |
|     | Limit                        |               | 614  | 0.815  |

| 1% | Maximum Permissible Exposure |               |      |        |
|----|------------------------------|---------------|------|--------|
|    | Probe from EUT Side          | Test Distance | V/m  | A/m    |
|    | Front                        | 20 cm         | 0.53 | 0.0014 |
|    | Back                         | 20 cm         | 0.72 | 0.0018 |
|    | Left                         | 20 cm         | 0.86 | 0.0022 |
|    | Right                        | 20 cm         | 0.88 | 0.0025 |
|    | Top                          | 20 cm         | 0.63 | 0.0031 |
|    | Bottom                       | 20 cm         | 0.65 | 0.0032 |
|    | Limit                        |               | 614  | 0.815  |

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