

| Report No.: | SABDKG-WTW-P21110454 |
|---|---|
| FCC ID: | JNZA00161 |
| Test Model: | A00161 |
| Received Date: | Nov. 14, 2021 |
| Date of Evaluation: | Dec. 24, 2021 |
| Issued Date: | Jan. 24, 2022 |
| Applicant: | LOGITECH FAR EAST LTD. |
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| Issued By: | Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories |
| Lab Address: | No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan |
| Test Location: | No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN |
| FCC Registration / Designation Number: | 788550 / TW0003 |



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Release Control Record

| Issue No. | Description | Date Issued |
|----------------------|------------------|---------------|
| SABDKG-WTW-P21110454 | Original Release | Jan. 24, 2022 |



| 1 | Certificate of Conformity | | | |
|----|----------------------------------|---|--|--|
| | Product: speaker+Docking station | | | |
| | Brand: | Logitech | | |
| | Test Model: | A00161 | | |
| | Sample Status: | Engineering Sample | | |
| | Applicant: | LOGITECH FAR EAST LTD. | | |
| Da | te of Evaluation: | Dec. 24, 2021 | | |
| | Standards: | FCC Part 2 (Section 2.1091) | | |
| | References Test Guidance | KDB 447498 D01 General RF Exposure Guidance v06 | | |

The above equipment 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 RF characteristics under the conditions specified in this report.

Prepared by :

Vera Huang

Vera Huang / Specialist

Date: Jan. 24, 2022

Approved by :

Jeremy Lin

Date: Jan. 24, 2022

Jeremy Lin / Project Engineer



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/cm ²) | Average Time (minutes) | |
|---|----------------------------------|----------------------------------|--|---------------------------|--|
| Limits For General Population / Uncontrolled Exposure | | | | | |
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 | |
| 1.34-30 | 824/f | 2.19/f | (180/f²)* | 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

2.2 MPE Calculation Formula

 $\begin{array}{l} \mathsf{Pd} = (\mathsf{Pout}^*\mathsf{G}) \ / \ (4^*\mathsf{pi}^*\mathsf{r}^2) \\ \mathsf{where} \\ \mathsf{Pd} = \mathsf{power} \ \mathsf{density} \ \mathsf{in} \ \mathsf{mW}/\mathsf{cm}^2 \\ \mathsf{Pout} = \mathsf{output} \ \mathsf{power} \ \mathsf{to} \ \mathsf{antenna} \ \mathsf{in} \ \mathsf{mW} \\ \mathsf{G} = \mathsf{gain} \ \mathsf{of} \ \mathsf{antenna} \ \mathsf{in} \ \mathsf{linear} \ \mathsf{scale} \\ \mathsf{pi} = 3.1416 \\ \mathsf{r} = \mathsf{distance} \ \mathsf{between} \ \mathsf{observation} \ \mathsf{point} \ \mathsf{and} \ \mathsf{center} \ \mathsf{of} \ \mathsf{the} \ \mathsf{radiator} \ \mathsf{in} \ \mathsf{cm} \end{array}$

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**.

3 Calculation Result of Maximum Conducted Power

| Band | Max AV Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm ²) | Limit (mW/cm²) |
|-------|-----------------------|-----------------------|------------------|--|-------------------|
| BT | 10.52 | 4.79 | 20 | 0.007 | 1 |
| BT LE | 8.51 | 0.75 | 20 | 0.002 | 1 |

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

Conclusion:

The formula of calculated the MPE is: CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1 CPD = Calculation power density LPD = Limit of power density

BT + BT LE = 0.007/1 + 0.002/1 = 0.009

Therefore the maximum calculations of above situations are less than the "1" limit.

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