

RF Exposure Report

Report No.: MFBHTN-WTW-P22110245

FCC ID: S6J-3417

Test Model: 3417

Received Date: Nov. 11, 2022

Test Date: Dec. 07 ~ Dec. 27, 2022

Issued Date: Jan. 30, 2023

Applicant: Technology Solutions (UK) Ltd.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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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
MFBHTN-WTW-P22110245	Original release.	Jan. 30, 2023

1 Certificate of Conformity

Product: 3417 UHF RAIN RFID Reader Module

Brand: TECHNOLOGY SOLUTIONS (UK) LTD

Test Model: 3417

Sample Status: Engineering sample

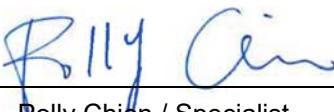
Applicant: Technology Solutions (UK) Ltd.

Test Date: Dec. 07 ~ Dec. 27, 2022

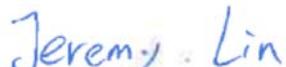
FCC Rule Part: FCC Part 2

Standards: 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 : , **Date:** Jan. 30, 2023

Polly Chien / Specialist

Approved by : , **Date:** Jan. 30, 2023

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				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$Pd = (Pout*G) / (4*pi*r^2)$$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

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

Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain including cable loss (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
902.75 ~ 927.25	28.30	2.2	20	0.223	0.602

*Antenna Gain: 2.5 dBi – 0.3 dBi = 2.2 dBi

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

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