

RF Exposure Report

Report No.: SABDZB-WTW-P21020455

FCC ID: RFHPOCIW22C001

Test Model: POCi-W22C-ULT5

Received Date: 2021/2/20

Test Date: 2022/3/7 ~ 2022/3/10

Issued Date: 2022/6/13

Applicant: IEI Integration Corp.

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

Lin Kou Laboratories

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FCC Registration /

Designation Number: 198487 / TW2021





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Release Control Record

Issue No.	Description	Date Issued
SABDZB-WTW-P21020455	Original release.	2022/6/13



1 Certificate of Conformity

Product: MEDICAL PANEL PC

Brand: iEi

Test Model: POCi-W22C-ULT5

Sample Status: Engineering sample

Applicant: IEI Integration Corp.

Test Date: 2022/3/7 ~ 2022/3/10

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.

Jessica Cheng / Senior Specialist

Approved by: \sqrt{N} , Date: $\sqrt{2022/6/13}$

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/f ²)*	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

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

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**.

2.1 Antenna Gain

EUT (FCC ID: RFHPOCIW22C001)

The antenna information is listed as below.

Function	Frequency (MHz)	Antenna Peak Gain (dBi)	Antenna Type	Antenna Connector
	2400	2.3	PIFA	I-PEX
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2500	2.8	PIFA	I-PEX
WLAN	5150	4.8	PIFA	I-PEX
	5850	4.8	PIFA	I-PEX
RFID	13.56	-	PIFA	I-PEX

Note: 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.



2.4 Calculation Result Of Maximum Conducted Power

The EUT contains WiFi module as below:

Contains WIFI Module
FCC ID: PD9AX200NG

EUT (FCC ID: RFHPOCIW22C001):

Frequency Band	Max Power (EIRP)	Distance	Power Density	Limit
(MHz)	(dBm)	(cm)	(mW/cm²)	(mW/cm²)
13.56	-58.35	20	0.000000002909	0.978

NOTE: Max Power: -3.12dBuV/m = -58.35dBm

Contains WLAN module FCC ID: PD9AX200NG

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
WLAN 2400-2483.5	24.0	2.8	20	0.0952	1
WLAN 5150-5250 5250-5350 5745-5725 5725-5850	24.0	4.8	20	0.1509	1
BT EDR / BTLE 2400-2483.5	11.00	2.8	20	0.0048	1

NOTE:

- 1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2. FCC ID: RFHPOCIW22C001 & FCC ID: PD9AX200NG can transmit at same time.

Conclusion:

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

EUT (FCC ID: RFHPOCIW22C001) + WLAN module (FCC ID: PD9AX200NG)

=0.0000000002909/0.978+0.1509/1+0.0048/1=0.1557

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

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