

RF Exposure Report

Report No.: MFBHCP-WTW-P22090444-1

FCC ID: ACJ932AH2201

Test Model: AH2201

Received Date: 2022/3/11

Date of Evaluation: 2022/9/15

Issued Date: 2022/11/9

Applicant: Panasonic Corporation of North America

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

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33383, TAIWAN

FCC Registration /

788550 / TW0003

Designation Number:





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Release Control Record

Issue No.	Description	Date Issued	
MFBHCP-WTW-P22090444-1	Original Release	2022/11/9	



1 Certificate of Conformity

Product: Display Audio

Brand: Panasonic

Test Model: AH2201

Sample Status: Engineering Sample

Applicant: Panasonic Corporation of North America

Date of Evaluation: 2022/9/15

FCC Rule Part: FCC Part 2 (Section 2.1091)

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 :	Lena Wang	, Date:	2022/11/9	
	Lena Wang / Specialist			



Report Format Version: 6.1.1

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/cm²)	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**.



2.4 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max. Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
WLAN	5745-5825	14.63	1.8	20	0.009	1.00
ВТ	2402-2480	1.73	2.6	20	0.001	1.00

Note:

- 1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2. The above Antenna information refers to the manufacturer's antenna specifications.
- 3. Maximum power WLAN is average power, BT is peak.

Conclusion:

Both of the WLAN & BT can transmit simultaneously, the formula of calculated the MPE is:

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

CPD = Calculation power density

LPD = Limit of power density

BT + WLAN 5GHz = 0.001 + 0.009 = 0.01

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

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