



Test Report No.: FM2008WDG0391

RF EXPOSURE REPORT

| | |
|-----------|--|
| Applicant | Clarion Co., Ltd. |
| Address | 6F, No.40, Guanri Road, Software Park Stage II, Xiamen, China. |

| | |
|-------------------------------------|--|
| Manufacturer or Supplier | Clarion Co., Ltd. |
| Address | 6F, No.40, Guanri Road, Software Park Stage II, Xiamen, China. |
| Product | Audio Display |
| Brand Name | Clarion |
| Model | PP-4360 |
| Additional Model & Model Difference | N/A |
| Date of tests | Sep. 03, 2020 ~ Sep. 25, 2020 |

- FCC Part 2 (Section 2.1091)**
- KDB 447498 D01**
- IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

| | |
|---|--|
| Tested by Madison Luo Assistant Manager / EMC Department | Approved by Chris Chen Manager / EMC Department |
| | |

Date: Oct. 09, 2020

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---------------|-------------------|---------------|
| FM2008WDG0391 | Original release | Oct. 09, 2020 |

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1. CERTIFICATION

| | |
|------------------------|-----------------------------|
| FCC ID: | WY2-PP4360 |
| PRODUCT: | Audio Display |
| BRAND NAME: | Clarion |
| MODEL NO.: | PP-4360 |
| ADDITIONAL NO.: | N/A |
| APPLICANT: | Clarion Co., Ltd. |
| STANDARDS: | FCC Part 2 (Section 2.1091) |
| | KDB 447498 D01 |
| | IEEE C95.1 |

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2. RF EXPOSURE LIMIT

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

3. MPE CALCULATION FORMULA

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

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

4. 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**.



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5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

| Transmitter Circuit | Peak Gain (dBi) | Antenna Type |
|---------------------|-----------------|--------------|
| Wi-Fi 2.4GHz | -1.8 | PCB Antenna |
| BT | 0 | PCB Antenna |

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

| Mode | Frequency (MHz) | Target Power (dBm) | Tolerance (dBm) | Lower Tolerance (dBm) | Upper Tolerance (dBm) |
|--------------|-----------------|--------------------|-----------------|-----------------------|-----------------------|
| GFSK | 2402-2480 | -1 | +2 | -3 | 1 |
| 8DPSK | 2402-2480 | -1 | +2 | -3 | 1 |
| 802.11b | 2412-2462 | 10 | +2 | 8 | 12 |
| 802.11g | 2412-2462 | 10 | +2 | 8 | 12 |
| 802.11n HT20 | 2412-2462 | 10 | +2 | 8 | 12 |

The measured conducted Average Power

| Mode | Frequency (MHz) | Averaged Power (dBm) |
|--------------|-----------------|----------------------|
| GFSK | 2402 | -1.12 |
| 8DPSK | 2402 | -0.27 |
| 802.11b | 2462 | 10.91 |
| 802.11g | 2437 | 10.93 |
| 802.11n HT20 | 2437 | 10.86 |



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| FREQUENCY BAND (MHz) | MAX AVERAGE POWER (dBm) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/cm ²) | LIMIT (mW/cm ²) |
|----------------------|-------------------------|--------------------|---------------|-------------------------------------|-----------------------------|
| BT | 1 | 0 | 20 | 0.000250 | 1 |
| Wi-Fi 2.4GHz | 12 | -1.8 | 20 | 0.002083 | 1 |

CONCLUSION:

The BT and WIFI can transmit simultaneously, the formula of calculated the MPE is:

$$\text{CPD1 / LPD1 + CPD2 / LPD2 +etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$(0.000250/1)+(0.002083/1) = 0.002333 < 1$, which is less than the "1" limit.

--- END ---