

# RF Exposure Evaluation Report

Product Name : Car Audio

Model No. : PI-4305A-A, PI-4306A-A

FCC ID : Q2ZPI4305A

Applicant : Clarion (M) Sdn Bhd

Address : Phase 3 FIZ,Bayan Lepas,Malaysia,11400

Date of Receipt : Feb. 04, 2020

Date of Declaration : Mar. 13, 2020

Report No. : 2020024R-SAUSP03V00

Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Issued Date: Mar. 13, 2020  
 Report No.: 2020024R-SAUSP03V00



Product Name	Car Audio
Applicant	Clarion (M) Sdn Bhd
Address	Phase 3 FIZ, Bayan Lepas, Malaysia, 11400
Manufacturer	Clarion Asia (Thailand) Co., Ltd.
Model No.	PI-4305A-A, PI-4306A-A
FCC ID.	Q2ZPI4305A
Trade Name	Clarion
Applicable Standard	KDB 447498 D01 v06 <div style="display: flex; justify-content: space-between; width: 100%;"> <input type="checkbox"/> Minimum test separation distance <math>\geq</math> 20 cm           <input checked="" type="checkbox"/> For low power devices           </div>
Test Result	Complied

Documented By : Ida Tung

( Adm. Assistant / Ida Tung )

Tested By : wen Lee

( Senior Engineer / Wen Lee )

Approved By : Vincent Lin

( Director / Vincent Lin )

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Car Audio
Trade Name	Clarion
Model No.	PI-4305A-A, PI-4306A-A
FCC ID.	Q2ZPI4305A
Frequency Range	2402-2480MHz
Channel Number	79
Type of Modulation	FHSS: GFSK(1Mbps) / π /4DQPSK(2Mbps) / 8DPSK(3Mbps)
Antenna Type	PCB Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Plextek	N/A	PCB antenna	0dBi for 2.4GHz

## 2. RF Exposure Evaluation

### 2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

### 2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 (Power(mW)/separation (mm)\*sqrt(f(GHz)) $\leq$ 3.0), SAR is required as shown in the table below where calculated values are greater than 3.0:

- 1.) Operation frequency = 2450MHz and antenna separation distance = 5mm,  
SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum output power Peak Gain: 0dBi			SAR Test Exclusion Threshold (mW)	Calculated Threshold Value ( $\leq$ 3.0 SAR is not required)
	Power (dBm)	EIRP (dBm)	EIRP (mW)		
2402 – 2480	-1.41	-1.41	0.72	10	0.226

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 2020024R-RFUSP01V00 from the DEKRA.