



Test Report No.: FS150824N029



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	CAR NAVIGATION
Brand Name	CLARION
Model	QY-8500
Additional Model & Model Difference	QY-8550
Date of tests	Oct. 06, 2015 ~ Oct. 23, 2015

- ☒ 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 Blue Zheng Project Engineer / EMC Department	Approved by Chris Chen Assistant Manager / EMC Department
	 Date: Oct. 23, 2015

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS150824N029	Original release	Oct. 23, 2015

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1. CERTIFICATION

PRODUCT: CAR NAVIGATION
BRAND NAME: CLARION
MODEL NO.: QY-8500
ADDITIONAL MODEL: QY-8550
FCC ID: WY2QY8500
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: Clarion Co., Ltd.
STANDARDS: FCC Part 2 (Section 2.1091)
KDB 447498 D01
IEEE C95.1



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

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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**.



5. ANTENNA GAIN

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

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	0	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2412-2462	0.839	0	20	0.0001669	1.0

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