

RF Exposure Evaluation Declaration

Report No.: S2025072289100105

Issue Date: 08-27-2025

Applicant: Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Address: 6F, No.40, Guanri Road, Software Park Stage II, Xiamen, China
FCC ID: WY2Q000
Application Type: Certification
Product: IVI Assy
Model No.: Q000
Trade Mark: clarion
FCC Rule Part(s): CFR 47, FCC Part 2.1091 Radio frequency radiation exposure evaluation: mobile devices.
Item Receipt date: Jul. 19, 2025
Test Date: Jul. 21 ~ Aug. 19, 2025

Compiled By

Stone Zhang

(Stone Zhang)

Senior Test Engineer

Approved By

Line Chen

(Line Chen)

Engineer Manager



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd. Wuxi Branch

The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S2025072289100105	Rev. 01	/	08-27-2025

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§2.1033 General Information

Applicant:	Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Applicant Address:	6F, No.40,Guanri Road, Software Park Stage II, Xiamen, China
Manufacturer:	Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Manufacturer Address:	6F, No.40,Guanri Road, Software Park Stage II, Xiamen, China
Factory:	Faurecia Clarion Electronics (Fengcheng) Co., Ltd.
Factory Address:	No.12 High-Tech Road,Fengcheng High Technology Industry Park,Yichun City,Jiangxi
Test Site:	Fanguang Inspection & Testing Co., Ltd.
LAB ID:	CN5037
LAB registration number:	600222-0
Test Site Address:	No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China
FCC Rule Part(s):	FCC Part 2.1091
FCC ID:	WY2Q000
Test Device Serial No.:	S/N.: / <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering

1. Product Information

1.1. Equipment Description

Product Name:	IVI Assy
Test Model:	Q000
Trade Mark:	clarion
Input Voltage Range:	DC 9V~16V, typical voltage: DC 13.2V
Software Version:	C.0.9.JB
Hardware Version:	A
EUT sample number:	S20250722891001-1-1 (Conducted) S20250722891001-1-2 (Radiated)

Note:

1. This information is provided by the Customer and its authenticity is the responsibility of the Customer.
2. The two configurations are consistent in terms of schematic, circuit design, circuit layout, hardware version, and software version, except for the addition of a DAB circuit board in the maximum configuration. The differences are not affecting the RF performance.

For specific differences please refer to the following table.

Function	Product name: IVI Assy	
	Model:Q000	
	Minimum Configuration	Maximum Configuration
BT (4.2)	√	√
WIFI 2.4G	√	√
WIFI 5G (B4)	√	√
FM/AM	√	√
DAB	X	√
HSD socket	√	√
Memory(RAM)	√	√

3. The maximum configuration of the model was tested and recorded in this report.

1.2. Product Specification Subjective to this Report

Frequency Range:	531kHz – 1606.5kHz for AM (only for receive); 87.5MHz - 108MHz for FM (only for receive); 174MHz - 240MHz for DAB (only for receive); 1559MHz - 1610MHz for GNSS (only for receive); 2402MHz - 2480MHz for Bluetooth GFSK, Pi/4DQPSK, 8DPSK; 2412MHz - 2462MHz for IEEE 802.11b/g/n-HT20 mode; 5745MHz - 5825MHz for IEEE 802.11a/n-HT20 mode;
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Type of Modulation:	GFSK&Pi/4DQPSK&8DPSK for Bluetooth DSSS for IEEE 802.11b OFDM for IEEE 802.11g/a/n-HT20 mode.
Antenna Type:	PCB Antenna
Antenna Gain:	BT/BLE/2.4G-WiFi: 3.98 dBi gain (Max) 5G-WIFI: 4.2 dBi gain (Max)

Note: The maximum Antenna Gain was declared by the manufacturer.

2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	f/1500	6
1500-100,000	--	--	1	30

f= Frequency in MHz

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

P_d is the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

For simultaneous transmission exposure cases, calculation formula is:

$$\sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

2.2. Calculation Method

Temperature:	28.3 °C
Relative Humidity:	36 %
ATM Pressure:	100.9 kPa
Test Data:	2025-08-18
Test Engineer:	Stone Zhang

Product	IVI Assy
Test Item	RF Exposure Evaluation

Mode	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Antenna Gain (dBi)	PG		MPE (mW/cm ²)	MPE Limits (mW/cm ²)
				(dBm)	(mW)		
BT-DH5	2480	12.05	3.98	16.03	40.09	0.0080	1.00
BLE	2480	7.52	3.98	11.50	14.13	0.0028	1.00
2.4G-WiFi 802.11b	2462	17.76	3.98	21.74	149.28	0.0297	1.00
5G-WiFi 802.11n-HT20	5785	15.69	4.20	19.89	97.50	0.0194	1.00

Remark: 1. MPE use distance is 20cm from manufacturer declaration of user manual.

Remark: 2. Use the maximum gain of all bands when evaluating.

Remark: 3. For simultaneous transmission is BT-DH5 and 2.4G-WiFi 802.11b (worst case).

$$\sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} = 0.0080 + 0.0297 = 0.0377 < 1.$$

CONCULISON:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

Statement

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4. The report content is only applicable to the tested sample(s) this time.
5. If there are any objections to the report content, please submit them to our company in writing within 15 days from the date of receiving the report.
6. If the reports include both Chinese and English versions, when there are any inconsistencies caused by language, the Chinese version shall prevail.
7. This report is issued by the following laboratory premises:

No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China

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