



No.: FCCSZ2024-0082-H

# **TEST REPORT**

FCC ID	:	2BE7DM10CP
NAME OF SAMPLE	:	Car Multimedia Player
APPLICANT	:	CAD Business LLC
CLASSIFICATION OF TEST	:	N/A

CVC Testing Technology (Shenzhen) Co., Ltd.

Test Report No.: FCCSZ2024-0082-H

Page 2 of 10

Applicant		Name: CAD Business LLC Address: 11379 Harry Hines Blvd, Dallas, TX 75229 USA				
Manufacturer		Name: CAD Business LLC Address: 11379 Harry Hines Blvd, Dallas, TX 75229 USA				
Equipment Under	Test	Name: Car Multimedia Player Model/Type: XA-M10CP Brand: XELON AUDIO Serial No.: N/A Sample No.: 3-1				
Date of Receipt.				ing <b>2024-1</b> '	2024-11-26 ~ 2025-01-14	
Test Specification		1	Test Result			
FCC Part 2 (Section 2.1091) KDB 447498 D04 V01 IEEE C95.1		PASS				
Evaluation of Test Resul	lt	The equipm requirements of t		pplied.	comply with the Seal of CVC e Date: 2025-01-15	
Compiled by: Zhw Yulin Zhu Yulin		Reviewed by: Mo Xianbiao		Approved by:		
Name Signatur	e	Mo Xianbiao Name Signature		De Name	o <b>ng Sanbi</b> Signature	

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



Page 3 of 10

# TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1. GENERAL PRODUCT INFORMATION	5
2. RF EXPOSURE LIMIT	6
3. CLASSIFICATION	8
4. ANTENNA GAIN	. 8
5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER	8
6. MAXIMUM PERMISSIBLE EXPOSURE	9



Page 4 of 10

# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2024-0082-H	Original release	2025-01-15

Page 5 of 10

### 1. GENERAL PRODUCT INFORMATION

PRODUCT	Car Multimedia Player
BRAND	XELON AUDIO
TEST MODEL	XA-M10CP
POWER SUPPLY	DC 12V
	2402MHz~2480MHz for BT
OPERATING FREQUENCY	2412MHz ~ 2462MHz for 2.4G WiFi
	5180MHz ~ 5825MHz for 5G WiFi
	8.76dBm for BT
PEAK OUTPUT POWER	16.41dBm for 2.4G WiFi
	16.87dBm for 5G WiFi
ANTENNA TYPE AND GAIN	Wire Antenna, with 0dBi gain for BT
_	Wire Antenna, with 0dBi gain for 2.4G WiFi
(Remark 4/5)	Wire Antenna, with 0dBi gain for 5G WiFi
HARDWARE VERSION:	cm215_v1.2
SOFTWARE VERSION:	UP-F69L
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

Remark:

- 1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3. EUT photo refer to the report (Report NO.: FCCSZ2024-0082-EUT).

4. Please refer to the antenna report.

5. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

Test Report No.: FCCSZ2024-0082-H

Page 6 of 10

### 2. RF EXPOSURE LIMIT

(Option B) According to FCC Part2.1091 and FCC Part1.1307b, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P is given by:

 $P_{\rm th} \,({\rm mW}) = \begin{cases} ERP_{20\,\,{\rm cm}} (d/20\,\,{\rm cm})^x & d \le 20\,\,{\rm cm} \\ \\ ERP_{20\,\,{\rm cm}} & 20\,\,{\rm cm} < d \le 40\,\,{\rm cm} \end{cases}$ 

Where:

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\,\mathrm{cm}\sqrt{f}}\right)$$

and f is in GHz; and

 $P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$ 

(Option C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to §1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation
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RF Source Frequency (MHz)	Threshold ERP (W)
0.3 - 1.34	1920R <sup>2</sup>
1.34 - 30	3450R <sup>2</sup> /f <sup>2</sup>
30 - 300	3.38R <sup>2</sup>
300 - 1500	0.0128R <sup>2</sup> /f <sup>2</sup>
1500 - 100000	19.2R <sup>2</sup>



Page 7 of 10

For multiple RF sources: Multiple RF sources are exempt if:

- a) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
- b) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for Pth, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth, j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least  $\lambda/2\pi$  according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

*Evaluatedk* = the maximum reported SAR or MPE of fixed, mobile, or portable RF source *k* either in the device or at the transmitter site from an existing evaluation at the location of exposure.

*Exposure Limitk* = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.

Test Report No.: FCCSZ2024-0082-H

Page 8 of 10

### 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**.

## 4. ANTENNA GAIN

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

Transmitter Circuit	Peak Gain (dBi)	Antenna Type				
ВТ	0	Wire Antenna				
2.4G WiFi	0	Wire Antenna				
5G WiFi	0	Wire Antenna				
Remark: This is provided by the manufacturer. The laboratory is not responsible for technical data provided by the customer.						

## 5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The measured Conducted Power

Option	Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)	
	BT	2402 ~ 2480	9	+-1	8	10	
В	2.4G WiFi	2412 ~ 2462	16	+-1	15	17	
	5G WiFi	5180 ~ 5825	17	+-1	16	18	

Page 9 of 10

### 6. MAXIMUM PERMISSIBLE EXPOSURE

Option	Technology	Maximum tune up power (dBm)	Maximum Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Part1.1307b Threshold (mW)	Verify
	BT	10	0	10	7.85	6.10	3060	PASS
В	2.4G WiFi	17	0	17	14.85	30.55	3060	PASS
	5G WiFi	18	0	18	15.85	38.46	3060	PASS

Note: This device can operate simultaneously in BT and WiFi.

### CALCULATION FOR SIMULTANEOUS TRANSMISSION:

BT and WiFi can transmit simultaneously, the formula of calculated the MPE is

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

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Max: (6.10 / 3060) + (38.46 / 3060) = 0.015 < 1, which is less than the "1" limit, compliant with the RF exposure requirements.



Page 10 of 10

# Important

(1) The test report is invalid without the official stamp of CVC;

(2) Any part photocopies of the test report are forbidden without the written permission from CVC;

(3) The test report is invalid without the signatures of Approval and Reviewer;

(4) The test report is invalid if altered;

(5) Objections to the test report must be submitted to CVC within 15 days.

(6) Generally, commission test is responsible for the tested samples only.

(7) As for the test result "-" or "N" means "not applicable", "/" means "not test", "P" means "pass" and "F" means "fail"

Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China Post Code: 518110 Tel: 0755-23763060-8805 Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn http://www.cvc.org.cn