RF Exposure Evaluation Declaration

Report No.: S20250626670311-G1
Issue Date: 07-09-2025

Applicant:	Huizhou Foryou General Electronics Co., Ltd.
Address:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, Huizhou city, Guangdong Province, China 516005
FCC ID:	2AEIN-YJ5317K00
Product:	MONITOR WITH RECEIVER
Model No.:	DMX8710S
FCC Rule Part(s):	CFR 47, FCC Part 2.1091 Radio frequency radiation exposure evaluation: mobile devices.
Item Receipt date:	Feb. 12, 2025
Test Date:	Mar. 20, 2025~ May.10, 2025

Compiled By: Stone Zhang
(Stone Zhang)
Senior Test Engineer

Approved By: Line Chen
(Line Chen)
Engineer Manager

FANGGUANG INSPECTION & TESTING CO.,LTD. APPROVED(02)

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.
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Revision History

Report No.	Version	Description	Issue Date
S20250626670311-G1	Rev. 01	1. This report shall be replaced by report S20250626670311, which shall be invalid immediately upon the issuance of this report. 2. The initial issuance date of report S20250626670311 was July 04, 2025, and the first amendment to the report was made on July 09, 2025, the Hardware Version change V04, the Software Version change MCU: 00.22, MPU: 00.32.	07-09-2025

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§2.1033 General Information

Applicant:	Huizhou Foryou General Electronics Co., Ltd.
Applicant Address:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, Huizhou city, Guangdong Province, China 516005
Manufacturer:	Huizhou Foryou General Electronics Co., Ltd.
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Factory:	Huizhou Foryou General Electronics Co., Ltd.
Factory Address:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, Huizhou city, Guangdong Province, China 516005
Test Site:	Fangguang Inspection & Testing Co. Ltd
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Test Site Address:	No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China
FCC Rule Part(s):	Part 15 Subpart E (15.407)
FCC ID:	2AEIN-YJ5317K00
Test Device Serial No.:	S/N.: / ☐ Production ☒ Pre-Production ☐ Engineering

1. Product Information

1.1. Equipment Description

<table>
<tr><td>Product Name:</td><td>MONITOR WITH RECEIVER</td></tr>
<tr><td>Model Name:</td><td>DMX8710S</td></tr>
<tr><td>Additional Model:</td><td>KW-M795BW</td></tr>
<tr><td>Model Description:</td><td>They are consistent with the schematic, PCB layout, hardware version, and software version. The differences are shown in the table below, but they do not affect RF performance:
<table>
<tr><td rowspan="2">Function</td><td colspan="2">Product name: MONITOR WITH RECEIVER</td></tr>
<tr><td>DMX8710S</td><td>KW-M795BW</td></tr>
<tr><td>Trademark</td><td>KENWOOD</td><td>JVC</td></tr>
<tr><td>Key Color Illumination</td><td>White</td><td>Blue</td></tr>
<tr><td>BT</td><td>Yes</td><td>Yes</td></tr>
<tr><td>5.8GWiFi</td><td>Yes</td><td>Yes</td></tr>
<tr><td>AM</td><td>Yes</td><td>Yes</td></tr>
<tr><td>FM</td><td>Yes</td><td>Yes</td></tr>
<tr><td>DAB</td><td>Yes</td><td>No</td></tr>
<tr><td>GNSS</td><td>Yes</td><td>Yes</td></tr>
<tr><td>MIC</td><td>Yes</td><td>Yes</td></tr>
<tr><td>HDMI</td><td>Yes</td><td>Yes</td></tr>
<tr><td>RBDS/RDS</td><td>RBDS</td><td>RBDS</td></tr>
<tr><td>USB</td><td>Yes</td><td>Yes</td></tr>
<tr><td>Amplifer output</td><td>Yes</td><td>Yes</td></tr>
<tr><td>LINEOUT</td><td>Yes</td><td>Yes</td></tr>
<tr><td>SUBOUT</td><td>Yes</td><td>Yes</td></tr>
<tr><td>BEEP</td><td>Yes</td><td>Yes</td></tr>
<tr><td>AV/CAM-IN</td><td>Yes</td><td>Yes</td></tr>
<tr><td>AV/CAM-OUT</td><td>Yes</td><td>Yes</td></tr>
<tr><td>RVC-IN</td><td>Yes</td><td>Yes</td></tr>
<tr><td>SXM Tuner</td><td>Yes</td><td>Yes</td></tr>
<tr><td>iDatalink</td><td>Yes</td><td>Yes</td></tr>
<tr><td>SWC</td><td>Yes</td><td>Yes</td></tr>
<tr><td colspan="3">Note: The above products have the same wireless IC, radiation circuit, power circuit and other circuits, with same shell.</td></tr>
</table></td></tr>
</table>

Trade Mark:	Trademark	KENWOOD	JVC
	Model	DMX8710S	KW-M795BW
Input Voltage Range:	DC 12V		
Bluetooth Version:	5.3		
Wi-Fi Specification:	802.11a/n-HT20/n-HT40/ac-VHT20/ac-VHT40/ac-VHT80		
Temperature Range:	-20℃~+80℃		
Hardware Version:	V04		
Software Version:	MCU: 00.22 MPU: 00.32		
Note:	1. This information is provided by the Customer and its authenticity is the responsibility of the customer. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions. 2. Based on the differences in models, DMX8710S tested all items 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; 5745MHz~5825MHz for IEEE 802.11a/n HT20/ac VHT20 mode; 5755MHz~5795MHz for IEEE 802.11n HT40/ac VHT40 mode; 5775MHz for IEEE 802.11ac VHT80 mode.
Type of Modulation:	GFSK&Pi/4DQPSK&8DPSK for Bluetooth, OFDM for IEEE 802.11a/n/ac mode.
Antenna Type:	Chip Antenna
Antenna Gain:	BT: 3.2 dBi gain (Max) 5G WIFI: 3.5 dBi gain (Max)

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

2. RF Exposure Evaluation

2.1. Limits

General

According to the KDB 447498 D04 Interim General RF Exposure Guidance v01,General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table 4.1 to support an exemption from further evaluation from 300 kHz through 100 GHz.

TABLE 4.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

RF Source Frequency			Minimum Distance			Threshold ERP
f_L MHz		f_H MHz	$\lambda_L / 2\pi$		$\lambda_H / 2\pi$	W
0.3	–	1.34	159 m	–	35.6 m	1,920 R^2
1.34	–	30	35.6 m	–	1.6 m	3,450 R^2/f^2
30	–	300	1.6 m	–	159 mm	3.83 R^2
300	–	1,500	159 mm	–	31.8 mm	0.0128 R^2f
1,500	–	100,000	31.8 mm	–	0.5 mm	19.2R^2
Subscripts L and H are low and high; λ is wavelength. From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.						

For mobile devices that are not exempt per Table 4.1 at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in§1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (4.1).

Formula (4.1):

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

2.2. Calculation Method

Predication of MPE limit at a given distance

EIRP(dBm)=Maximum Tune-up Output power (dBm)+Maximum antenna gain(dBi)

ERP(dBm)=EIRP(dBm)-2.15

R=minimum distance to the center of radiation of the antenna

From the EUT RF output power, the minimum mobile separation distance, d=20cm, as well as the maximum gain of the used as following information, the RF power ERP can be obtained.

Table 1 Antenna Specification

Mode	Antenna type	Internal Identification	Maximum antenna gain
Bluetooth	Chip antenna	Antenna 1	3.2dBi
5GHz WiFi U-NII-3	Chip antenna	Antenna 2	3.5dBi

Table 2 Transmit Power

Mode		Maximum Output Power (dBm)	Maximum Tune-up Output power (dBm)
Bluetooth DH5		5.74	6.00±1.00
Bluetooth 2DH5		5.72	6.00±1.00
Bluetooth 3DH5		6.08	6.50±1.00
5GHz WiFi U-NII-3	802.11a	5.87	6.00±1.00
	802.11n HT20	5.42	5.50±1.00
	802.11n HT40	5.36	5.50±1.00
	802.11ac VHT20	5.23	5.50±1.00
	802.11ac VHT40	3.75	4.00±1.00
	802.11ac VHT80	4.67	5.00±1.00

2.3. Test Result of RF Exposure Evaluation

Mode	Frequency (MHz)	Maximum Tune-up Output power (dBm)	Antenna Gain (dBi)	Maximum Tune-up EIRP (dBm)	ERP (dBm)	Maximum Tune-up ERP (W)	Threshold ERP(W)
BT	2402- 2480	7.5	3.2	10.7	8.55	0.0072	0.768
5GHz WiFi U-NII-3	5725-5850	7.0	3.5	10.5	8.35	0.0068	0.768

Remark:

1). RF Exposure use distance is 20cm from manufacturer declaration of user manual.

2). Threshold ERP(W)= 19.2R² (W)=19.2*0.2*0.2(W)=0.768(W).

3). ERP(dBm)=EIRP(dBm)-2.15.

For Simultaneous transmission:

∑ MPE ratios= MPE ratio(BT)+ MPE ratio(5G wifi-U-NII-3).

Maximum Simultaneous transmission MPE Ratio for BT and RLAN(5G wifi)

Maximum MPE ratio (BT)	Maximum MPE ratio (5G wifi-U-NII-3)	∑ MPE ratios	Limit	Results
0.0094	0.0089	0.0183	1.000	Pass

Note:

(1) The bluetooth and wifi support simultaneous.

(2) ERP_j: the available maximum time-averaged power or the ERP, whichever is greater, of fixed, mobile, or portable RF source j.

(3) $ERP_{th,j}$: exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π, according to the applicable § 1.1307(b)(3)(i)(C) Table 1 formula at the location in question.

(4) Maximum MPE Ratio (BT) = Maximum Tune-up ERP(BT) / Threshold ERP =0.0014W/0.768W= 0.0018;

(5) Maximum MPE Ratio (5G wifi-U-NII-3) =Maximum Tune-up ERP (5G wifi-U-NII-3) / Threshold ERP =0.0097W/0.768W=0.0126 ;

(6) ∑ MPE ratios= Maximum MPE Ratio (BT)+ Maximum MPE Ratio (5G wifi-U-NII-3) =0.0094+0.0089=0.0183<1.

The result is pass.

CONCULISON:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

Statement

1. This report is invalid for the following states: without the special inspection and testing stamp or the official stamp of our institution; without the signature of the report authorized officer; if the report is altered.

2. It is forbidden to copy partial contents of the report except in full without the approval of our institution.

3. The client shall provide the test sample(s) and commission information and be responsible for their authenticity.

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:

   3/F., Comprehensive Laboratory Building, No.8, Ningyun Road, Xinwu District, Wuxi, Jiangsu, China (Ningyun Road Laboratory)

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