



MPE TEST REPORT

Applicant Daiichi Elektronik Sanayi ve Ticaret A.S.

FCC ID 2AOI6-D716AF

Product D716AF-1 A7 7" AVN w CP&AA&DAB,
D716AF-2 A7 7" AVN w CP&AA&DABEU,
D716AF-3 A7 7" AVN w CP&AA&DABAU/NZ

Brand Daiichi

Model D716AF

Report No. R1905A0213-M2V1

Issue Date June 12, 2019

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC 47 CFR Part 1 1.1310**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Yu Wang

Performed by: Yu Wang

Guangchang Fan

Approved by: Guangchang Fan

TA Technology (Shanghai) Co., Ltd.

No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000



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1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test facility

CNAS (accreditation number:L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-10766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.



1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Xu Kai
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <http://www.ta-shanghai.com>
E-mail: xukai@ta-shanghai.com

1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Description of Equipment under Test

Client Information

Applicant	Daiichi Elektronik Sanayi ve Ticaret A.S.
Applicant address	Asirefendi caddes Imar Han No:15 Kat 4, Faith,istanbul,Turket
Manufacturer	Guangzhou Liuhuan Information Technology Co., Ltd.
Manufacturer address	NO.6 Yunpu 4th Road, Huangpu District, Guangzhou, China

General Technologies

Model	D716AF
SN	/
Hardware Version	V1.0.3
Software Version	V1.0.2.2_CP_AA
Date of Testing:	December 25, 2018~ January 31, 2019

D716AF (Report No: R1905A0213-M2) is a variant model of D715AF (Report No: R1812A0521-M1V1). Test values duplicated from Original for variant. There is no test for variant in this report. The detailed product change description please refers to the ANNEX B.

3 Maximum conducted output power (measured) and antenna Gain

The numeric gain (G) of the antenna with a gain specified in dB is determined by

Numeric gain (G)= $10^{(\text{antenna gain}/10)}$

Band	Maximum Conducted Output Power (dBm)		Antenna Gain (dBi)	Numeric gain
	(dBm)	(mW)		
Bluetooth	10.400	10.965	0.500	1.122

4 Test Result

According to section 1.1310 of FCC 47 CFR Part 1, limits for maximum permissible exposure (MPE) are as following

TABLE 1 – LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Note1. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational / controlled limits apply provided he or she is made aware of the potential for exposure.

Note2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.



The maximum permissible exposure for 1500~100,000MHz is 1.0. So

Band	The maximum permissible exposure
Bluetooth	1.0mW/cm ²

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. No change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

**RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided. This calculation is based on the conducted power, considering maximum power and antenna gain. The formula shown in KDB 447498 D01 is used in the calculation.

Equation from KDB 447498 D01 General RF Exposure Guidance v06 (10/23/2015) is:

$$S = PG / 4\pi R^2$$

Where: S = power density (in appropriate units, e.g. mW/cm²)

P = Time-average maximum tune up procedure (in appropriate units, e.g., mW)

G = the numeric gain of the antenna

R = distance to the center of radiation of the antenna (20 cm = limit for MPE)

Band	Maximum Conducted Output Power (dBm)		Antenna Gain	Numeric gain	PG (mW)	Test Result (mW/cm ²)	Limit Value (mW/cm ²)	Conclusion
	(dBm)	(mW)	(dBi)					
Bluetooth	10.400	10.965	0.500	1.122	12.303	0.002	1.000	Pass
Note: R = 20cm π = 3.1416								

Note: For transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

ANNEX A: The EUT Appearance

A.1 EUT Appearance



a: EUT

Picture 1 EUT

ANNEX B: Product Change Description

Daiichi Elektronik Sanayi ve Ticaret. A.S.

Product Change Description

We, [Daiichi Elektronik Sanayi ve Ticaret. A.S.] ,declare on our sole responsibility that the product,

[Variant Model---D716AF]

is the variant of the initial certified product,

[Initial Model---D715AF]

Except the following changes on the latest MODEL: [Variant Model ---D716AF]

SOFTWARE MODIFICATIONS:

Protocol Stack changes: NO

MMS/STK changes: NO

JAVA changes: NO

Other changes detailed: NO

HARDWARE MODIFICATION:

Band changes: NO

Power Amplifier changes: NO

Antenna changes: NO

PCB Layout changes: Yes.

Components on PCB changes: Yes

LCD changes: No

Speaker changes: NO

Camera changes: NO

Vibrator changes: NO

Bluetooth changes: NO

FM changes: NO

Other changes: NO

MECHANICAL MODIFICATIONS:

Use new metal front/back cover or keypad: Yes

Mechanical shell changes: Yes

Other changes detailed: Yes

ACCESSORY MODIFICATIONS:

Battery changes: yes coin battery changed

AC Adaptor changes: NO

Earphone changes: NO

Daiichi Elektronik Sanayi ve Ticaret. A.S.



Signature:

Print name: Ahmet Urgan

Date: 2019-05-09

Company: Daiichi Elektronik Sanayi ve Ticaret. A.S.

Address: Asirefendi caddes Imar Han No:15 Kat 4 / ISTANBUL

Tel: (+90) 532 340 72 11

Fax: (+90) 216 471 19 24