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RF Exposure Evaluation Report

Under:

47 CFR Part 2.1091

KDB447498 D01 General RF Exposure Guidance v06

Prepared For:

Cetis, Inc.

4975 N. 30th Street, Colorado Springs, CO 80919, USA

FCC ID: ZTU-9702MWD
EUT: Cordless Phone
Model: 9702MWD, 9702MWD5, 9700MWD, 9700MWD5

January 20, 2020

Issue Date:

Original Report

Report Type:

Test Engineer: Jacky Huang

Review By: Apollo Liu / Manager

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Table of Contents

1. General Information	4
1. 1 Notes	4
1. 2 Testing Laboratory.....	4
1. 3 Details of Applicant.....	4
1. 4 Application Details	4
1. 5 Details of Manufacturer	4
1. 6 Test Item	4
1. 7 Applicable Standards	5
2. Technical Test	6
2. 1 Summary of Test Results.....	6
3. EUT Modifications.....	6
4. FCC Maximum Permissible Exposure (MPE).....	7
4. 1 Limit of MPE	7
4. 2 RF Exposure Requirements.....	7
4. 3 Conclusion	7

Report Revision History

Report #	Version	Description	Issued Date
KSZ2019112204JFP02	Rev.01	Initial issue of report	January 20, 2020

1. General Information

1. 1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the KMO Lab.

1. 2 Testing Laboratory

Test Firm Name:	Ke Mei Ou Lab Co., Ltd.
Test Firm Address:	2013-2016, 20th Floor, Business Center, Jiahui Xin Cheng, No 3027, Shen Nan Road, Fu Tian, Shen Zhen, Guang Dong, P. R. China
FCC Designation Number:	CN1532
Test Firm Registration Number:	344480
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ANSI-ASQ National Accreditation Board/ACCLASS ISO/IEC 17025 Accredited Lab for telecommunication standards. The Registration Number is AT-1532. The testing quality system meets with ISO/IEC-17025 requirements, This approval results is accepted by MRA of ILAC.

1. 3 Details of Applicant

Name: Cetis, Inc.
Address: 4975 N. 30th Street, Colorado Springs, CO 80919, USA

1. 4 Application Details

Date of Receipt of Application : November 22, 2019
Date of Receipt of Test Item : December 17, 2019
Date of Test : December 17 ~ January 18, 2020

1. 5 Details of Manufacturer

Name: Jiangsu Zhongxun Electronic Technology Co., Ltd.
Address: Dingshu Town, Tangshu Road #8, Yixing City, Jiangsu Province

1. 6 Test Item

EUT Feature	
EUT Description:	Cordless Phone
Brand Name:	Cetis
Model Name:	9702MWD, 9702MWD5, 9700MWD, 9700MWD5
EUT RF Technology:	<input checked="" type="checkbox"/> PUB Part 15 Unlicensed PCS Base Station
HW Version:	Ver 1.0
SW Version:	Ver 1.0
EUT Stage:	<input type="checkbox"/> Identical Prototype <input checked="" type="checkbox"/> Production

Note: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Standard Product Specification				
Tx/Rx Frequency Range	1921.536~1928.448 MHz			
Number of Channels	5			
Carrier Frequency of Each Channel	0 1928.448; 1 1926.720; 2 1924.992; 3 1923.264; 4 1921.536 (MHz)			
Antenna Type / Gain	Internal Antenna / gain Ant0 0dBi Ant1 0dBi			
Type of Modulation	GFSK			
EUT Operational Condition	<input type="checkbox"/> AC <input checked="" type="checkbox"/> DC → <input type="checkbox"/> From Battery → <input checked="" type="checkbox"/> External AC adapter <input type="checkbox"/> POE			

Specification of Accessory				
<input checked="" type="checkbox"/> AC/DC Adapter #1(US)	Brand Name	CETIS	Model Name	ZX-12012001200300
	Power Rating	I/P: 100-240Vac~50/60Hz, 0.5A Max; O/P: (1-8)12.0Vdc /1200mA, (2-7)12.0Vdc/300mA		
<input type="checkbox"/> Power over Ethernet (PoE)	Power Rating	-		

1. 7 Applicable Standards

Applicable Standards
According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:
47 CFR Part 2.1091
KDB447498 D01 General RF Exposure Guidance v06
Note: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Technical Test

2. 1 Summary of Test Results

The EUT has been tested according to the following specifications:

FCC Rules	Test Type	Limit	Result	Notes
47 CFR Part 2.1091	Exposure Evaluation	< 1.0m W/cm ²	PASS	Complies.

3. EUT Modifications

No modification by test lab.

4. FCC Maximum Permissible Exposure (MPE)

4. 1 Limit of MPE

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	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

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
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

4. 2 RF Exposure Requirements

RF Exposure Requirements
<p>S=PG/4πIR²</p> <p>Where: S=Power density P=Power input to antenna G=Power gain of the antenna relative to an isotropic radiator R=Distance to the center of radiation of the antenna</p>

4. 3 Conclusion

Compliance with FCC Rules				
Maximum output power at antenna input terminal (dBm)	Prediction distance (cm)	Maximum Antenna gain (dBi)	Power density (m W/cm ²)	MPE limit for uncontrolled exposure at prediction frequency(m W/cm ²)
19.82	20	0	0.0191	1.0
Frequency / Channel : 1921.536MHz Low				
Conclusion: MPE no required				

-----End of Report-----