RF Exposure Evaluation Report

Product	:	Media Center
Trade mark	:	KICKER
Model/Type reference	:	KMC100, KMC5
Serial Number	:	N/A
Report Number	:	EED32L00202002
FCC ID	:	2ADQMKMC1001
Date of Issue	:	Aug.23, 2019
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01v06
Test result	:	PASS

Prepared for:

CPS Distributors, Inc.
6024 Parretta Drive, Kansas City, MO. 64120,USA

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Tested By:	Jay Zheng	Compiled by:	Alex Wu
Reviewed by:	Ware Xin	Approved by:	Kevin Yang
Date:	Aug.23, 2019	Check No.:	3096311576

CENTRE TESTING INTERNATIONAL GROUP CO.,LTD. CTI Report Seal

2 Version

Version No.	Date	Description
00	Aug.23, 2019	Original

3 Contents

4 General Information

4.1 Client Information

Applicant:	CPS Distributors, Inc.
Address of Applicant:	6024 Parretta Drive, Kansas City, MO. 64120,USA
Manufacturer:	CPS Distributors, Inc.
Address of Manufacturer:	A1,A5 Building, No.6, Xinxing Industrial Park, Xinhe Village, Fuyong Town, Bao'an District, Shenzhen City,Guangdong Province,China
Factory:	SKYPINE ELECTRONICS (SHEN ZHEN) CO.,LTD.
Address of Factory:	A1,A5 Building, No.6, Xinxing Industrial Park, Xinhe Village, Fuyong Town, Bao'an District, Shenzhen City,Guangdong Province,China

4.2 General Description of EUT

Product Name:	Media Center
Model No.(EUT):	KMC100, KMC5
Test Model No.:	KMC100
Trade Mark:	KICKER
EUT Supports Radios application	BT 2.1+EDR , 2402-2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channels:	79
Test Power Grade:	DH5:40/40/35 2DH5:40 3DH5:40
Test Software of EUT:	BlueTest 3 (manufacturer declare)
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	DC 12V
Max Conducted Peak Output Power:	3.554dBm The Max Conducted Peak Output Power data refer to the report EED32L00202001
Sample Received Date:	Jul. 26, 2019
Sample tested Date:	Jul. 26, 2019 to Aug. 21, 2019
The tested sample(s) and the sample information are provided by the client. Model No.: KMC100, KMC5 Only the model KMC100 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference model name.	

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385
No tests were sub-contracted.
FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: 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 part1.1307(b)

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
3.0–30	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				
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

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the centre of radiation of the antenna

EIRP = P*G

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limit S, then we can conclude the device complies with the rules.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.

5.1.3 EUT RF Exposure Evaluation

Antenna Gain: 0dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max Conducted Peak Output Power(dBm)	Gain (dBi)	EIRP* (dBm)	EIRP (mW)	R (cm)	S (mW/cm^2)	Limit (mW/cm^2)	Result
Middle	2441	3.554	0	3.554	2.27	20	0.0005	1.0	Pass

Note: Refer to report No. EED32L00202001 for EUT test Max Conducted Peak Output Power value.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00202001 for EUT external and internal photos.

*** End of Report ***