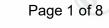


Report No.: EED32L00174002



RF Exposure Evaluation Report

Product : CSM92F30 Module

Trade mark : Chipsea

Model/Type reference : CSM92F30 Module

Serial Number : N/A

Report Number : EED32L00174002 FCC ID : 2AGM5CSM92F30

Date of Issue : Aug. 15, 2019

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 KDB447498D01v06

Test result : PASS

Prepared for:

Chipsea technologies (Shenzhen) Crop. 9F, Block A, Garden City Digital Building, No. 1079 Nanhai Road, Nanshan District, Shenzhen

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Tested By:

Jay Zheng

Compiled by:

Alex Wu

Reviewed by:

Ware Xin

Date:

Aug. 15, 2019

Compiled by:

Approved by:

Kevin yang

Check No.: 3096349871









Report No. : EED32L00174002

2 Version

Version No.	Date	6	Description				
00	2019-08-15		Original				
)		(6)	(62)	(6,7)			











































































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4 General Information

4.1 Client Information

Applicant:	Chipsea technologies (Shenzhen) Crop.
Address of Applicant:	9F, Block A, Garden City Digital Building, No. 1079 Nanhai Road, Nanshan District, Shenzhen
Manufacturer:	Chipsea technologies (Shenzhen) Crop.
Address of Manufacturer:	9F, Block A, Garden City Digital Building, No. 1079 Nanhai Road, Nanshan District, Shenzhen
Factory:	Chipsea technologies (Shenzhen) Crop.
Address of Factory:	9F, Block A, Garden City Digital Building, No. 1079 Nanhai Road, Nanshan District, Shenzhen

4.2 General Description of EUT

Product Name:	CSM92F30 Module		(3)
Model No.(EUT):	CSM92F30 Module	(67)	(6)
Trade Mark:	Chipsea		
EUT Supports Radios application	BT 5.0 only mode, 2402MHz	to 2480MHz	

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2	480MHz				
Modulation Type:	GFSK					
Number of Channels:	40	(3)	(10)		130	
Test Power Grade:	N/A	(67)	(67)		(0)	
Test Software of EUT:	FixFreqTest	er V1.0				
Antenna Type:	PCB antenn	a				
Antenna Gain:	0.5 dBi					
Power Supply:	Battery:	DC 3.3V				
EIDD.	-3.222dBm					
EIRP:	The ERP da	ta refer to the report E	ED32L001740	01		
Sample Received Date:	Jul. 02, 2019		(3)		(3)	
Sample tested Date:	Jul. 02, 2019	9 to Aug. 14, 2019	(0,)		6.	
The tested sample(s) and t	he sample infor	mation are provided by	the client.			



















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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.



None.

4.7 Other Information Requested by the Customer

None.









































































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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) Lim	its for Occupational	/Controlled Exposure	es	
0.3–3.0	614 1842/f	1.63 4.89/f	*(100) *(900/f²)	6
30–300 300–1500	61.4	0.163	1.0 f/300	6
1500–100,000	tor Comment Domisto	and becauted from	5	6
(B) Limits i	or General Populati	on/Uncontrolled Exp	osure	
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.



















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5.1.3 EUT RF Exposure Evaluation

Antenna Gain: 0.5dBi

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/cm²)	Limit (mW/cm²)	Result
Highest	2480	-3.222	0.5	-2.722	0.534	20	0.00005	1.0	Pass

Note: Refer to report No. EED32L00174001 for EUT test Max Conducted Peak Output Power value.



















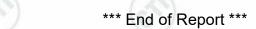


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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00174001 for EUT external and internal photos.



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