

RF EXPOSURE REPORT



Applicant: Keep Technologies, Inc.
130 Boulevard NE, Suite 6, Atlanta, GA 30312

Manufacturer: Chicony Electronics Co.,Ltd
No.69, Sec. 2. Guangfu. Rd., Sanchong Dist.,New Taipei City
24158

Product Name: Keep Vehicle Monitoring System

Brand Name: Keep Technologies

Model No.: Keep Device 1.0

Model Difference: N/A

Report Number: TESA2306000350ES

FCC ID 2BBYFKVMS1000

Issue Date: July 31, 2023

Date of EUT Received: June 12, 2023

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2306000350ES	00	Original	July 31, 2023	Yuri Tsai	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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Contents

1	DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
1.1	PRODUCT DESCRIPTION	4
1.2	EVALUATION SITE	4
1.3	ANTENNA INFORMATION:	5
1.4	RATED POWER	6
2	FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)	7
2.1	FCC STANDARD APPLICABLE	7
2.2	POWER DENSITY CALCULATION (WORST CASE)	8
2.3	COLLOCATED POWER DENSITY CALCULATION	8

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Keep Vehicle Monitoring System
Brand Name:	Keep Technologies
Model No.:	Keep Device 1.0
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	Conducted:66A2125AC51200187 Radiated/Conduction:66A2125AC51200055
Power Supply:	12V

1.2 Evaluation site

Laboratory	Site Address		FCC Designation number	ISED Company Number	CAB Identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	<input type="checkbox"/>	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027	4620A	TW3702
	<input checked="" type="checkbox"/>	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028	4620E	
	<input type="checkbox"/>	1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Neihu District, Taipei City, 222 Taiwan.	TW0029	23862	

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1.3 Antenna Information:

The antenna information is provided by the applicant.

1.3.1 BLE

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	2402~2480	1.55

1.3.2 WWAN

Operating Frequency (MHz)		Ant 0 Peak Gain (dBi)
WCDMA / HSPA Band II	1850 ~ 1910	1.12
WCDMA / HSPA Band IV	1710 ~ 1753	1.88
WCDMA / HSPA Band V	824 ~ 849	1.25
LTE-Band 2	1850 ~ 1910	1.12
LTE-Band 4	1710 ~ 1755	1.88
LTE-Band 5	824 ~ 849	1.25
LTE-Band 12	699 ~ 716	0.05
LTE-Band 13	777 ~ 787	0.48
LTE-Band 25	1850 ~ 1915	1.06
LTE-Band 26	824 ~ 849	1.20
LTE-Band 26 Part 90	814 ~ 824	1.20

Note: Antenna information is provided by the applicant.

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1.4 Rated Power

BLE

Mode	Freq. Range (MHz)	Channels	Modulation Technology	Max Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)
BLE	2402-2480	40	GFSK	7.94	1.55	9.49

WWAN

Operating Frequency (MHz)				Max. Output Power (dBm)	Antenna Gain (dBi)	separation distance(m)	EIRP / ERP (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Density / Limit	FCC Worst Case
WCDMA / HSPA Band II	1850	~	1910	25.00	1.12	0.2	26.12	0.08	1.00	0.08	
WCDMA / HSPA Band IV	1710	~	1753	25.00	1.88	0.2	26.88	0.10	1.00	0.10	
WCDMA / HSPA Band V	824	~	849	25.00	1.25	0.2	26.25	0.08	0.55	0.15	V
LTE-Band 2	1850	~	1910	25.00	1.12	0.2	26.12	0.08	1.00	0.08	
LTE-Band 4	1710	~	1755	25.00	1.88	0.2	26.88	0.10	1.00	0.10	
LTE-Band 5	824	~	849	25.00	1.25	0.2	26.25	0.08	0.55	0.15	V
LTE-Band 12	699	~	716	25.00	0.05	0.2	25.05	0.06	0.47	0.13	
LTE-Band 13	777	~	787	25.00	0.48	0.2	25.48	0.07	0.52	0.13	
LTE-Band 25	1850	~	1915	25.00	1.06	0.2	26.06	0.08	1.00	0.08	
LTE-Band 26	824	~	849	25.00	1.20	0.2	26.20	0.08	0.55	0.15	V
LTE-Band 26 Part 90	814	~	824	25.00	1.20	0.2	26.20	0.08	0.54	0.15	V

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2 FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

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 (minute)
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
1500-100000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

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

Where: S = Power density

P = Power input to antenna

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

R = Distance to the center of radiation of the antenna

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2.2 Power Density Calculation (Worst Case)

FCC Standalone MPE

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density / Limit
BLE	2480	20	7.94	1.55	8.89	0.0018	1.000	Pass	0.002
24G	24075	20	-	-	20.00	0.004	1.000	Pass	0.004
LTE-Band 26 Part 90	814	20	25	1.20	416.87	0.083	0.543	Pass	0.153

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

2.3 Collocated Power Density Calculation

FCC Collocated MPE		
Operation Mode	Power Density / Limit	Σ (Power Density / Limit)
BLE	0.002	0.159
24G	0.004	
LTE-Band 26 Part 90	0.153	

Note:

1. Σ (Power Density / Limit): This is a summation of [(Power Density for each transmitter/antenna included in the simultaneous transmission) / (corresponding MPE limit)].
2. Considering the collocated transmitters, the aggregated (Power Density /limit) is smaller than 1, and MPE of collocated transmitters is compliant

~ End of Report ~

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