

Report No.: KSCR230300033202

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## 1 Cover Page

RF Exposure Evaluation Report

Application No.: KSCR2303000332AT

FCC ID: 2AGOFRC428F

Applicant: HCS (Suzhou) Limited

Address of Applicant: 19F-20F, Building B-3rd, No.209 Zhuyuan Road, New District, Suzhou,

P.R.China

Manufacturer: HCS (Suzhou) Limited

Address of Manufacturer: 19F-20F, Building B-3rd, No.209 Zhuyuan Road, New District, Suzhou,

P.R.China

**Equipment Under Test (EUT):** 

**EUT Name:** Remote control

Model No.: RC4284505/02RP,RC4284504/02RP,RC428XXXX/XXBRP,RC428XXXX/X

XRP('X'=0-9,'B' means packed with battery)

Standard(s): FCC Rules 47 CFR §2.1093

KDB 447498 D04 interim General RF Exposure Guidance v01

 Date of Receipt:
 2023-03-02

 Date of Test:
 2023-03-10

 Date of Issue:
 2023-03-10

Test Result: Pass\*

Eric Lin
EMC Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record						
Version Description Date Remains						
00	Original	2023-03-10	1			

Authorized for issue by:		
	Damon zhou	
	Damon Zhou/Project Engineer	-
	Eric fri	
	Eric Lin /Reviewer	-



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## 3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 3V by AAA*2 battery
	□ Portable device
Product Type:	☐ Mobile device
	☐ Fixed device
3.2 Details of E.U.	Ţ.

**BLE** 

Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 LE
Modulation Type:	GFSK
Number of Channels:	40
Data Rate:	1Mbps, 2Mbps
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	1.36dBi (Provided by the manufacturer)



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### 3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable). 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

### 3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

### • FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

### • ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

### VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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#### 4 FCC Radiofrequency radiation exposure limits

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

#### 4.1 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of §1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

#### 4.2 **MPE-based Exemption**

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table B.1—Thresholds For Single RF Sources Subject to Routine Environmental Evaluation

RF Source Frequency			Minimum Distance			Threshold ERP
f∟ MHz		f <sub>H</sub> MHz	λ∟ / 2π	λ <sub>L</sub> / 2π λ <sub>H</sub> / 2		W
0.3	ı	1.34	159 m	_	35.6 m	1,920 R <sup>2</sup>
1.34	ı	30	35.6 m	_	1.6 m	3,450 R <sup>2</sup> /f <sup>2</sup>
30	ı	300	1.6 m	_	159 mm	3.83 R <sup>2</sup>
300	ı	1,500	159 mm	_	31.8 mm	0.0128 R <sup>2</sup> f
1,500	ı	100,000	31.8 mm	_	0.5 mm	19.2R <sup>2</sup>

Subscripts L and H are low and high; λ is wavelength.

From §1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.

The table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least  $\lambda/2\pi$ . The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive nearfield, and in the main beam of the radiator.



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For mobile devices that are not exempt per Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in §1.1310 is necessary if the ERP of the device is greater than *ERP*<sub>20cm</sub> in Formula (B.1) [repeated from §2.1091(c)(1); also in §1.1307(b)(1)(i)(B)].

$$P_{\text{th }}(\text{mW}) = ERP_{20 \text{ cm }}(\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

Limit calculation							
Frequency range Frequency (MHz) $R(N2\pi)$ (m) Threshold ERP(W)							
300~1500MHz	915	0.0522	0.032				
1500~100000MHz	2480	0.0193	0.007				

### 4.3 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of  $\lambda/4$ .

As for devices with antennas of length greater than  $\lambda/4$  where the gain is not well defined, but always less than that of a half-wave dipole (length  $\lambda/2$ ), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The SAR-based exemption formula of  $\S1.1307(b)(3)(i)(B)$ , repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold  $P_{th}$  (mW).



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This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula (B.2).

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B. 2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\operatorname{cm}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP<sub>20cm</sub> is per Formula (B.1).



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Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

	rable B.2—Example rower riflesholds (mw)									
Frequency					Distanc	ce(mm)				
(MHz)	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

Limit calculation						
Frequency range(GHz) Frequency(GHz) X Distance(cm) Pth (mW)						
0.3~1.5	0.915	1.474	0.5	8.133		
1.5~6	2.48	1.905	0.5	2.717		

So, for the head,

The SAR-based exemption threshold for BLE: 2.717mW.

for the hand,

The SAR-based exemption threshold for BLE: 2.717\*2.5mW=6.79mW



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#### 5 Measurement and Calculation

#### 5.1 **Maximum transmit power**

The Power Data is based on the RF Test Report KSCR230300033201

THE POWER BAILAND BAIL	ou on the reservoperent	The Ferrei Bala is based on the Fit Took Report Residence Control of the Fit T							
Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)						
	2402	1.72	1.49						
1M	2440	1.78	1.51						
	2480	2.01	1.59						
	2402	1.74	1.49						
2M	2440	1.78	1.51						
	2480	2.01	1.59						

Remark: The Tune up power is 1.59mW

#### 5.2 **RF Exposure Calculation**

The Tune up power is 1.59mW.. The best case gain of the antenna is 1.36dBi.

1.36dBi logarithmic terms convert to numeric result is nearly 1.368.

According to the formula. calculate the power test result:

For FCC:

For the head, EIRP = 1.59mW \*1.368=2.18mW <2.717mW

Remark: we used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation

071P 0 0	the edite exemption evaluation:							
		Separation distance						
	Evaluation method	between the antenna	Exempt Limit(mW)	Verdict				
		to person (R)						
	Blanket 1 mW Blanket Exemption	No distance	1mW	N/A				
	Blanket i iiiv Blanket Exemption	requirement	111100	IN//A				
	MPE-based Exemption(ERP)	(λ/2π) ≤R	7mW(ERP)	N/A				
$\boxtimes$	SAR-based Exemption( <i>P</i> th)	0.5cm≤R≤40cm	2.717mW	Yes				
	DAIX based Exemplion(7 iii)	0.0011=11=100111	Z.1 11111VV	1 00				

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report. For the hand, EIRP= 1.59mW \*1.368=2.18mW <2.5\*2.717mW=6.79mW

Remark: we used the maximum power between the conducted power and ERP/EIRP to perform RF

exposure exemption evaluation

exposi	Aposure exemption evaluation.							
		Separation distance						
	Evaluation method	between the antenna	Exempt Limit(mW)	Verdict				
		to person (R)						
	Blanket 1 mW Blanket Exemption	No distance	1mW	N/A				
	Blanket 1 mw Blanket Exemption	requirement	111100	14/71				
	MPE-based Exemption(ERP)	(λ/2π) ≤R	7mW(ERP)	N/A				
$\boxtimes$	SAR-based Exemption( $P_{th}$ )	0.5cm≤R≤40cm	6.79mW	Yes				

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.

-- End of the Report--



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