

Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR210900008402

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1 Cover Page

RF Exposure Evaluation Report

pplication No.: KSCR2109000084AT			
FCC ID:	2ADTD-KF010301113		
Applicant:	Hangzhou Hikvision Digital Technology Co.,Ltd.		
Address of Applicant:	No. 555, Qianmo Road, Binjiang District,Hangzhou		
Manufacturer:	Hangzhou Hikvision Digital Technology Co.,Ltd.		
Address of Manufacturer:	No. 555, Qianmo Road, Binjiang District,Hangzhou		
Factory:	 Hangzhou Hikvision Electronics Co., Ltd. Hangzhou Hikvision Technology Co., Ltd. CHONGQING HIKVISION TECHNOLOGY CO., LTD. Na 200, Qiushi Baad, Tanglu Fasanamia Davalanment Zana, Tanglu 		
Address of Factory:	County, Hangzhou, Zhejiang. 2.No.700 Dongliu Road, Binjiang District, Hangzhou 310052, China 3.Building 18, Louyu Area, C area, Jianqiao industrial park, Chongqing		
Equipment Under Test (EUT):			
EUT Name:	Wireless Keyfob		
Model No.:	DS-PKF1-WA,DS-PKF1-WAUHK,DS-PKF1-WACKV, DS-PKF1-WAUVS,DS-PKF1-WAKVO,DS-PKF1-WAHUN		
Standard(s) :	FCC Rules 47 CFR §2.1093		
Date of Receipt:	eceipt: 2021-09-18		
Date of Test:	2021-09-18 to 2021-10-15		
Date of Issue:	2021-10-15		
Test Result:	Pass*		

* In the configuration tested, the EUT complied with the standards specified above.

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Eric Lin Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Test Report Form Version: Rev01

Revision Record				
Version	Description	Date	Remark	
00	Original	2021-10-15	/	

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



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3 General Information

3.1 General Description of E.U.T.

•	
Power supply:	DC 3V

3.2 Technical Specifications

Operation Frequency:	912.5MHz ~ 917.4MHz	
Spectrum Spread:	Frequency Hopping Spread Spectrum(FHSS)	
Number of Channels:	50	
Channel Spacing:	100kHz	
Modulation Type:	FSK	
Antenna Gain:	-1.91dBi (Provided by manufacturer)	
Antenna Type:	PCB Antenna	



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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.

3.4 Test Facility

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

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

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

• FCC (Designation Number: CN1172)

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

• ISED (CAB identifier: CN0072)

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 (Member No.: 1938)

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 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max power of channel)/(min test separation distance)]*[$\sqrt{f}(GHz)$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-

g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- · Power and distance are rounded to the nearest mW and mm
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion. For 915M band device, the limit of worse case is

P_{max}≤7.5*D_{min})/√f =7.5*5/√0.9174=39.15mW



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR210900008401

Test Mode	Channel	Antenna 1 Power[dBm]	Antenna 1 Power[mW]
FSK	912.5	11.21	13.21
FSK	917.4	11.06	12.76

5.2 MPE Calculation

The Max Conducted Peak Output Power is 13.21mW. The best case gain of the antenna is -1.91dBi. According to the formula. calculate the Max Conducted Output Power test result: Max Conducted Output Power =13.21mW < 39.15mW

So the SAR report is not required.

--End of the Report--



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