



MPE REPORT

Report No.: SRTC2018-9004(F)-18082703(I)

Product Name: Passive Car Key

Product Model: HUF2725

Applicant: Huf Hülsbeck & Fürst GmbH & Co. KG

Manufacturer: Huf Hülsbeck & Fürst GmbH & Co. KG

Specification: FCC Part §2.1093, §1.1307(b)

FCC ID: YGOHUF2725

The State Radio_monitoring_center Testing Center (SRTC)

15th Building, No.30, Shixing Street, Shijingshan District, Beijing, P.R.China

Tel: 86-10-57996183 Fax: 86-10-57996388



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1. GENERAL INFORMATION

1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)		
Address:	15th Building, No.30 Shixing Street, Shijingshan District, P.R.China		
City:	Beijing		
Country or Region:	P.R.China		
Contacted person:	Liu Jia		
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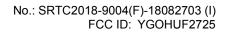
1.3 Applicant's details

Company:	Huf Hülsbeck & Fürst GmbH & Co. KG
Address:	Steeger Straße 17 42551 Velbert
City:	Velbert
Country or Region:	Germany
Contacted person:	Thomas Herzog
Tel:	+49 (0)2051 272-877
Fax:	+49 (0)2051 272-700-877
Email:	Thomas.Herzog@huf-group.com

1.4 Manufacturer's details

Company:	Huf Hülsbeck & Fürst GmbH & Co. KG
Address:	Steeger Straße 17 42551 Velbert
City:	Velbert
Country or Region:	Germany
Contacted person:	Thomas Herzog
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Email:	Thomas.Herzog@huf-group.com

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1.5 Test environment

Date of Receipt of test sample at SRTC:	2018-08-27
Testing Start Date:	2018-08-28
Testing End Date:	2018-08-31

Environmental Data:	Temperature (°C)	Humidity (%)	
Ambient	22-25	30-45	

Normal Supply Voltage (V d.c.):	3.30
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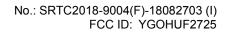


2 DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

Equipment Number	1	
Operating Frequency	433.92MHz (TX)	
	125KHz (Receiver)	
Antenna Type	PCB Printed loop Antenna	
Antenna Gain	-15dBi	
Modulation Type	FSK (TX)	
	ASK (Receiver)	
Power Supply	Battery	
Software Revision	1.08	
Hardware Revision	004	
SN	Sample1: 1#	

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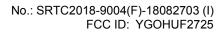
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3 REFERENCE SPECIFICATION

Specification	Version	Title	
2.1093	June 23, 2015	Radiofrequency radiation exposure evaluation: portable devices.	
1.1307(b)	Apr. 22, 1986	Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared	
KDB447498	D01	General RF Exposure Guidance	

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4 RESULT SUMMARY

No.	No. Test case FCC reference	
1	MPE	FCC Part §2.1093, FCC Part §1.1307(b) KDB447498 D01

This Test Report Is Issued by: Mr. Peng Zhen	Checked by: Mr. Li Bin
Tested by: Mr. Chang Taosha	Issued date: 20180907

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5 Test Results

5.1 Test Result

Test		State	Value)
	Modulation type	Test environment	Normal ope	eration
conditions		Centre frequency	433.92N	ИHz
		Power Mode	P _{conducted} (dBm)	P _{erp} (dBm)
NTNV	FSK		2.56	-12.44
LTLV	FSK	Measured Effective Radiated Power	2.54	-12.46
LTHV	FSK		2.55	-12.45
HTLV	FSK		2.55	-12.45
HTHV	FSK		2.56	-12.44

Note: P_{erp} = P_{conducted} + antenna gain
P_{erp:} measured effective radiated power.

P_{conducted}: maximum measured conducted power.

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5.2 SAR Test Exclusion Thresholds

According to the KDB447498 4.3.1(a)

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-q SAR, where

- ·f(GHz) is the RF channel transmit frequency in GHz
- ·Power and distance are rounded to the nearest mW and mm before calculation
- ·The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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.

Summary of Transmitters

Mode/Band	Freq (MHz)	Max. power of channel, including tune-up tolerance,	Max. power of channel, including tune-up tolerance,	Min. test separation distance, (mm)	The calculation results (1g)	SAR test exclusion Threshold (1g)	SAR Required
		(dBm)	(mW)	,	(3)	(3)	
FSK	433.92	3	2	5	0.27	≤3.0	No

---End of Test Report---

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