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Applicant Address of	Applicant	:	No.1, 1	nou Rock Machinery Manufacture ( st Road, Dongzhou Industrial Zone ) 311400, Hangzhou, China	
Product Nar Brand Name Model Name Sample No.	9	:	BADLA 71280(	s winch remote control ND 193175542595) 0030-01#01	
FCC ID Standards		:		9FEWL-13 art 2.1093	

Date of Receipt	:	2024-12-13
Date of Test	:	2024-12-18~2024-12-20
Date of Issue	:	2024-12-23

#### Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:

Brike JangReviewed by:Jennifer zholl<br/>(Jennifer Zhou)Approved by:(Erik Yang)(Jennifer Zhou)(Authorized)

Echo Mu

(Authorized signatory: Echo Mu)

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### **1** General Information

### 1.1 Testing Laboratory

Company Name	ICAS Testing Technology Services (Shanghai) Co., Ltd.
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Нотераде	www.icasiso.com

### 1.2 Environmental conditions

Temperature (°C)	15-35
Humidity (%RH)	30-60
Barometric Pressure (mbar)	860-1060

### 1.3 Details of Application

Applicant Company Name	Hangzhou Rock Machinery Manufacture Co., Ltd.					
Address	No.1, 1st Road, Dongzhou Industrial Zone, Fuyang 311400, Hangzhou, China					
Contact Person Chunhong Jiang						
Telephone	0086-571-87191226					
Email	rockwinch@gmail.com					
Manufacturer Company Name	Hangzhou Rock Machinery Manufacture Co., Ltd.					
Address	No.1, 1st Road, Dongzhou Industrial Zone,Fuyang 311400, Hangzhou, China					
Factory Company Name	Hangzhou Rock Machinery Manufacture Co., Ltd.					
Address	No.1, 1st Road, Dongzhou Industrial Zone,Fuyang 311400, Hangzhou, China					

### 1.4 Details of EUT

Product Name	wireless winch remote control
Brand Name	BADLAND
Test Model Name	71280(193175542595)
FCC ID	2ANRDFEWL-13
Operation Frequency	315MHz
Modulation Type	ASK
Antenna Type	Integral Antenna
Antenna Gain	0dBi
Hardware version	V1.3
Software version	V1.0

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### 2 Assessment methods

According to KDB 447498 D04 Interim General RF Exposure Guidance v01

#### Appendix B

#### Exemptions for Single RF Sources

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 § 1.1307(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 Pth (mW).

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). Pth is given by Formula (B.2).

$$P_{\rm th} (\rm mW) = \begin{cases} ERP_{20 \,\rm cm} (d/20 \,\rm cm)^x & d \le 20 \,\rm cm \\ \\ ERP_{20 \,\rm cm} & 20 \,\rm cm < d \le 40 \,\rm cm \end{cases}$$
(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  $ERP_{20cm}$  is per Formula (B.1).

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

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The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

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

**Test Data** 

Mode	315MHz					
Wode	ASK					
Field strength (dBuV/m)	84.86dBuV/m(peak)@3m					
Peak Power (dBm)	-10.34					
Note: This report listed the worst case value, please refer to RF test Report No. SHE24120030-01AE Test Result						
Radiated Emission 4.1.4.						

### 3 Conclusion

Per KDB 447498 D04 Interim General RF Exposure Guidance v01 Appendix B,

when the minimum test separation distance is 5mm, a distance of 5mm is applied to determine SAR test exclusion. The test exclusion threshold is <36.31mW(f=0.315GHz).

RF Maximum Output Power is -10.34dBm; ERP =0.09mW<36.31mW

So SAR testing is not required. RF exposure Evaluation Results: Compliance

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### 4 Appendixes

### 4.1 Sample Photograph

All view of EUT



### Top view of EUT



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Bottom view of EUT



Front view of EUT



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0 150 0 0 30 20 100 8 STAINLESS STEEL 80 02 ۲ - 09 50 40 -02 001 体力甘香砂柴州学 29 CSL 500 08 06 50 10 **60 80 40 60 50 60** TUIN

#### Left view of EUT





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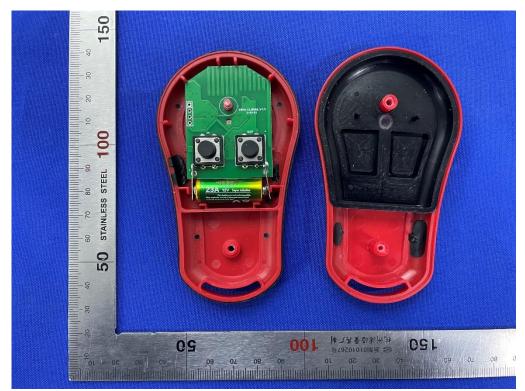
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Right view of EUT



Open view of EUT



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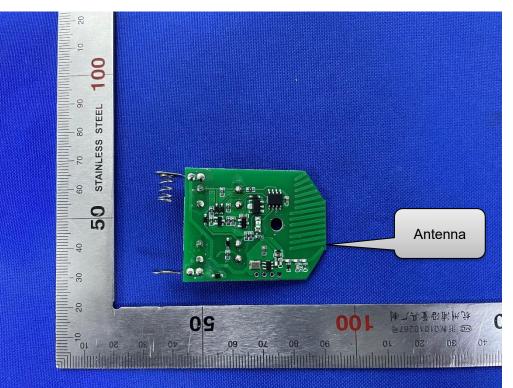
SHE24120030-01BE

Date:

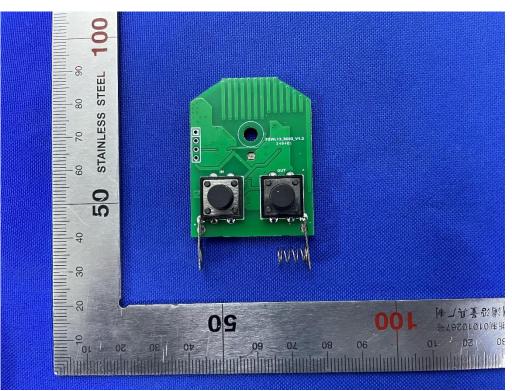
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Internal view of EUT-1



Internal view of EUT-2



\*\*\*End of the report\*\*\*