

RF Exposure Evaluation Report

Product : Rumen Bolus
Trade mark : JISHUO
Model/Type reference : JS-0130,JS-0103
Serial Number : N/A
Report Number : EED32O81454802
FCC ID : 2A9ON-JS0130103
Date of Issue : Dec. 12, 2022
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091(mobile devices)
47 CFR Part 2.1093(portable devices)
447498 D04 Interim General RF Exposure Guidance v01
Test result : PASS

Prepared for:

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3 General Information

3.1 Client Information

Applicant:	Inner Mongolia JiShuo Technology Co. LTD.
Address of Applicant:	Room 305, Zone C, Floor 3, Tian Fu He Tao Headquarters , Linhe District, Bayan Nur City, Inner Mongolia Autonomous Region China.
Manufacturer:	Inner Mongolia JiShuo Technology Co. LTD.
Address of Manufacturer:	Room 305, Zone C, Floor 3, Tian Fu He Tao Headquarters , Linhe District, Bayan Nur City, Inner Mongolia Autonomous Region China.
Factory:	Dongguan Qunhan Electronics Co.,Ltd
Address of Factory:	Room 101, No.3 Tai he road Huan Zhu Li Village Chang Ping Town Dong Guan City Guang Dong Province China

3.2 General Description of EUT

Product Name:	Rumen Bolus
Model No.:	JS-0130,JS-0103
Test model No.:	JS-0130
Trade mark:	JISHUO

3.3 Product Specification subjective to this standard

Frequency Range:	902.3MHz~914.9MHz
Modulation Type:	LoRa
Test Power Grade:	Default
Antenna Type	Internal antenna
Antenna Gain	1.32 dBi
Power Supply:	DC 3.0V
Max Conducted Peak Output Power:	16.30 dBm The Max Conducted Peak Output Power data refer to the report EED32O81454801
Sample Received Date:	Sep. 15, 2022
Sample tested Date:	Sep. 15, 2022 to Dec. 02, 2022
Remark: 1.N/A: The product is powered by battery. 2.Model No.: JS-0130,JS-0103 Only the big of model No. JS-0130 was tested, since both the big and small products use the same wireless module, with difference being size and model name,different models are called for customers with different needs. .we only tested the big one in the conduction part. Both products were tested for radiation.Both size of the products have been reflected in the report. 3.Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.	

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

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 P_{th} (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). P_{th} is given by Formula

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

where

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

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

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

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.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure Evaluation

Frequency (MHz)	Separation distance(cm)	Maximum Peak Conducted Output Power(dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
902.3	20	16.30	1.32	15.47	35.2371	1840.692	PASS

Note:

①EIRP=Maximum Peak Conducted Output Power+antenna gain;

②ERP=EIRP-2.15;

③The test data please refer to the report of EED32O81454801,and only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***