

SAR EXEMPTION EVALUATION REPORT

Report Number	BWTR-2316-NAMPE
FCC ID	2BB57-URC01
Applicant	Ficont Industry (Beijing) Co., Ltd.
Product Name	Remote Control
Marketing Name	N/A
Brand Name	
Model Name	URC01
Serial Number	No.1: TCS23060002 No.2: TCS23060003
Test Standard	FCC 47 CFR Part 1 Subpart I FCC 47 CFR Part 2 Subpart J
Tested Date	Aug. 07, 2023 - Aug. 14, 2023

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Revision History

Revision	Description	Issued Date
A	Initial issue of report	2023/09/05

1 Summary of Test Result

Report Section	FCC Section	Description	Result
3.1	KDB 447498 D01 4.3.1	Standalone SAR test exclusion	Pass

We, Beijing Boomwave Test Service Co. Ltd., would like to declare that the tested sample has been evaluated and in compliance with the requirements of applicable standards.

Prepared by:  2023.09.05
09:53:29
+08'00'

Reviewed by:  2023.09.05
10:08:37 +08'00'

Approved by:  2023.09.05
10:09:56 +08'00'

Rationale:

The test results in this report apply exclusively to the tested model / sample.

The laboratory shall have no liability to authenticate the information of tested model / sample provided by applicant or manufacturer in the test report. And it should be aware that the information may affect the validity of test results.

The electrical copy of test report is invalid without the signatures. The hard copy is invalid without seal. The test report shall not be modified, republished or copied without the written authorization of the laboratory.

2 General Information

2.1 Applicant

Ficont Industry (Beijing) Co., Ltd.

No. 15, Chuangyi East 2nd Road, Xiji Development Zone, Tongzhou District, Beijing, P.R. China

2.2 Manufacturer

Ficont Industry (Beijing) Co., Ltd.

No. 15, Chuangyi East 2nd Road, Xiji Development Zone, Tongzhou District, Beijing, P.R. China

2.3 Product Feature of Equipment Under Test

Product Name	Remote Control
Marketing Name	N/A
Model Name	URC01
Sample Status	Production
Operating Frequency Range	433.5MHz
Modulation Type	GFSK
Number of Channels	1
Nominal Channel Bandwidth	50KHz
Number of Antenna	1
Antenna Type	Spring Antenna
Antenna Gain	2.15dBi
Hardware Version	TC004 V2.0
Software Version	DLTC999016 B
Power Supply Rating	DC 4.50V (AA Battery × 3)
Sample Received Date	2023/07/27

Note: All the above information except for sample received date are provided by applicant.

2.4 Description of Test Modes

The EUT was flashed by engineering program to work in the mode of continuous transmitting its maximum output power level.

2.5 Duty Cycle of Test Signal

Frequency	Duty Cycle
433.5MHz	8.63%

2.6 Applicable Standards

Standard	Version	Title
FCC KDB 447498 D01	v06	RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES

2.7 Test Facilities

Company Name: Beijing Boomwave Test Service Co. Ltd

Address: EMC Building, No.1 Wang Jing East Road, Chao Yang District Beijing, P.R. China 100102

FCC Test Firm Registration Number: 613197

ISED Canada Registration No.: 24289 (CAB Identifier: CN0010)

VCCI Registration No.: R-20062, G-20063, C-20050, T-20049

Test Site	Description	Dimension	Ground Plane Size
☒ SAC10	10m semi-anechoic chamber	19.5m×12.9m×8.6m	4m×4m
☒ SAC3	3m semi-anechoic chamber	9.6m×6.4m×6.0m	---
☐ SR#1	Shielding Room for EMS test	8.1m×4.05m×2.755m	8.1m×4.05m
☒ SR#2	Shielding Room for RF test	8.1m×4.05m×2.755m	---

3 Evaluation Result

3.1 Standalone SAR Test Exclusion

3.1.1. Limit

FCC KDB 447498 D01v06 - §4.3.1

For 100MHz to 6GHz and test separation distances $\leq 50\text{mm}$, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ 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 values 3.0 and 7.5 are referred to as numeric thresholds in 2) below;

When the minimum test separation distance is $< 5\text{mm}$, a distance of 5mm is applied to determine SAR test exclusion.

3.1.2. Evaluation Result

Maximum Tune-up Power:

f (GHz)	Pmax (dBm)	Tune-up Tolerance (dB)	Pmax + Tune-up (mW)	Distance (mm)
0.4335	-10.22	0	0.1	5

Note: Tune-up tolerance is declared by manufacturer

Evaluation:

FCC		SAR Required
Evaluation Result	Exclusion Thresholds	No
0.013	3.00	

--- End of Test Report ---