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alacrity MJ-Q30

Alacrity 3-in-1 Bluetooth Pet Microchip Reader User Manual

Model: MJ-Q30

1. INTRODUCTION

This manual provides detailed instructions for the Alacrity 3-in-1 Bluetooth Pet Microchip Reader (Model MJ-Q30). This device is designed for reading animal microchips, supporting ISO11784, ISO11785, FDX-B, and EMID standards. It features a 1.44-inch TFT screen, an 800mAh rechargeable battery, and offers versatile connectivity options including 2.4GHz wireless, Bluetooth, and USB wired connections. The reader can store up to 240 pieces of data and supports both hexadecimal and decimal data output.





Image: The Alacrity 3-in-1 Bluetooth Pet Microchip Reader, showcasing its compact design and integrated screen.

2. PACKAGE CONTENTS

Please verify that all items listed below are present in your package:

- 1 x Pet Microchip Scanner (Alacrity MJ-Q30)
- 1 x English User Manual
- 1 x USB Cable
- 1 x 2.4GHz Wireless Dongle



Image: Contents of the product package, including the scanner, user manual, USB cable, and 2.4GHz wireless dongle.

3. PRODUCT FEATURES

- **Multi-Standard Support:** Compatible with ISO11784 / ISO11785 / FDX-B and EMID microchips. (Note: Does not read AVID microchips.)
- **Dual Data Output:** Supports both hexadecimal and decimal data output, selectable by the user.
- **1.44" TFT Screen:** Displays battery level, working mode, connection status, and microchip data clearly.
- **3-in-1 Connectivity:** Offers USB wired, 2.4GHz wireless, and Bluetooth connections for versatile use. Plug and play, no driver installation required.
- **Two Working Modes:**
 - **Upload Instantly Mode:** Data is transmitted immediately upon scanning.
 - **Storage Mode:** Stores up to 240 pieces of data internally for later upload.
- **Long Battery Life:** Equipped with an 800mAh rechargeable battery, providing up to 16 hours of continuous working time and 3 days of standby time.

- **Portable Design:** Compact and lightweight for easy carrying and use in various environments.

Adopt Upgraded RFID Technology Identify the farther distance



Image: Illustration of the upgraded RFID technology, demonstrating effective reading distances for 2-12mm glass tube labels (>8mm) and 30mm animal ear marks (>20mm).

800mah Battery Capacity 15 hours continuous working time



800mah
Battery Capacity



15 hours
Continuous working



3 days
Standby time

Image: Visual representation of the 800mAh battery capacity, indicating 15 hours of continuous working time and 3 days of standby time.

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your Alacrity Pet Microchip Reader:



Image: A detailed diagram of the microchip reader with the following labeled parts: (1) Scan Position, (2) Page Up button, (3) TFT Display Screen, (4) Scan Button, (5) Page Down button, and (6) Type-C Interface.

1. **Scan Position:** The area where the microchip is read.
2. **Page Up Button:** Used to navigate up through menus or stored data.
3. **TFT Display Screen:** Shows device status, menu options, and scanned data.
4. **Scan Button:** Initiates the microchip scanning process.
5. **Page Down Button:** Used to navigate down through menus or stored data.
6. **Type-C Interface:** For charging the device and connecting via USB.

5. SETUP

5.1 Initial Charging

Before first use, fully charge the device. Connect the provided USB cable to the Type-C interface (6) on the reader and the other end to a USB power adapter (not included) or a computer's USB port. The screen will indicate charging status.

5.2 Powering On/Off

To power on the device, press and hold the Scan Button (4) for a few seconds until the TFT Display Screen (3) illuminates. To power off, press and hold the Scan Button (4) again until the screen turns off.

6. OPERATING INSTRUCTIONS

6.1 Connecting the Reader

The Alacrity Pet Microchip Reader offers three connection methods:

- **2.4GHz Wireless Connection:**

Insert the 2.4GHz wireless dongle into a USB port on your computer. The reader will automatically connect to the dongle. This connection is ideal for stable, short-range wireless data transfer to a PC.



Image: Demonstrates the 2.4GHz wireless connection by plugging the USB dongle into a laptop, with the scanner displaying connection status.

- **Bluetooth Wireless Connection:**

On the reader's TFT screen, navigate to the Bluetooth option using the Page Up/Down buttons (2, 5) and select it with the Scan Button (4). On your smartphone or computer, enable Bluetooth and search for "Alacrity Reader" or similar. Pair with the device. This connection is suitable for mobile devices.

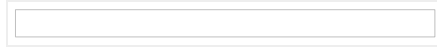


Image: Shows the three connection methods: 2.4GHz wireless via dongle, Bluetooth wireless connecting to a smartphone, and USB wired connection to a laptop.

- **USB Wired Connection:**

Connect the reader directly to your computer using the provided USB cable via the Type-C interface (6). The device will function as a standard USB input device, allowing direct data transfer.

6.2 Scanning Microchips

To scan a microchip:

1. Ensure the reader is powered on.
2. Position the Scan Position (1) of the reader close to the animal's microchip implant site.
3. Press the Scan Button (4). The reader will emit a beep and display the microchip ID on the TFT Display Screen (3) if a chip is detected. The reading time is typically less than 100ms.
4. The displayed ID can be in hexadecimal or decimal format, depending on your selected setting.

TFT display screen

Scan the chip to directly display the barcode content

Reading Time:<100ms



Image: A user scanning a pet's microchip with the Alacrity reader, showing the device's screen displaying the scanned barcode content.

6.3 Data Storage and Upload

The reader supports two data handling modes:

- **Upload Instantly Mode:** In this mode, each scanned microchip ID is immediately transmitted to the connected device (computer or smartphone). This is the default mode for real-time data capture.
- **Storage Mode:** To use this mode, select "Storage Mode" from the reader's menu. Scanned microchip IDs will be saved internally. The device can store up to 240 pieces of data. To upload stored data, connect the reader to a computer via USB or 2.4GHz wireless dongle, navigate to "Upload Data" on the reader's screen, and confirm the upload. The data will be transferred to your computer.

Up to 240 labels can be saved for mass storage



Image: Illustrates the data storage capability, showing the scanner saving up to 240 labels and the process of uploading data to a computer, suitable for various animal types.

7. MAINTENANCE

- Keep the device clean by wiping it with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Store the reader in a cool, dry place away from direct sunlight and extreme temperatures.
- Protect the TFT display screen from scratches.
- Do not attempt to disassemble or repair the device yourself, as this will void the warranty.
- Ensure the Type-C port is free of dust and debris.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Device does not power on.	Low battery or no charge.	Charge the device fully using the provided USB cable.
Cannot read microchip.	Microchip not supported (e.g., AVID). Incorrect scanning distance/angle. Microchip damaged or too deep.	Verify chip standard (ISO11784/11785/FDX-B/EMID). Ensure the scan position is directly over the chip. Try repositioning the animal or consult a veterinarian.
2.4GHz/Bluetooth connection fails.	Dongle not properly inserted (2.4GHz). Bluetooth not enabled on host device. Device not in pairing mode. Out of range.	Reinsert dongle. Enable Bluetooth and search for device. Ensure reader is in Bluetooth pairing mode. Move reader closer to the host device.
Data not uploading.	Incorrect working mode. Connection issue.	Ensure device is in "Storage Mode" and "Upload Data" is selected. Check USB/wireless connection.

9. SPECIFICATIONS

Feature	Detail
Model	MJ-Q30
Supported Microchips	ISO11784 / ISO11785 / FDX-B, EMID (Does not read AVID)
Display Screen	1.44-inch TFT Screen
Connectivity	2.4GHz Wireless, Bluetooth, USB Wired
Battery Capacity	800mAh Rechargeable Lithium Polymer Battery
Continuous Working Time	Up to 16 hours
Standby Time	Up to 3 days
Data Storage Capacity	240 pieces of data
Data Output Format	Hexadecimal & Decimal
Item Weight	4.2 ounces (approx. 119 grams)
Package Dimensions	6.57 x 4.61 x 1.06 inches




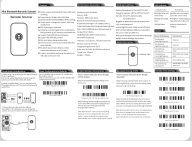



Image: Technical drawing showing the dimensions of the Alacrity Pet Microchip Reader (15.8mm/6.1in height, 52.3mm/2.0in width, 15.5mm/0.6in thickness) and its weight (2.6oz / 73.8g), highlighting its portability.

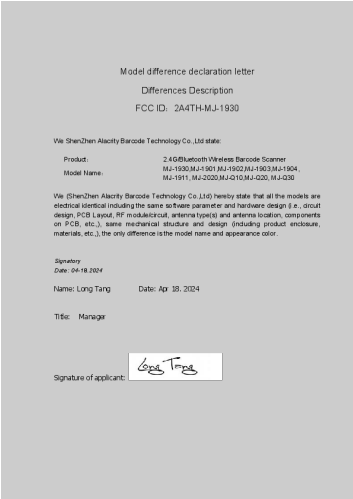
10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official Alacrity website. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: alacrity

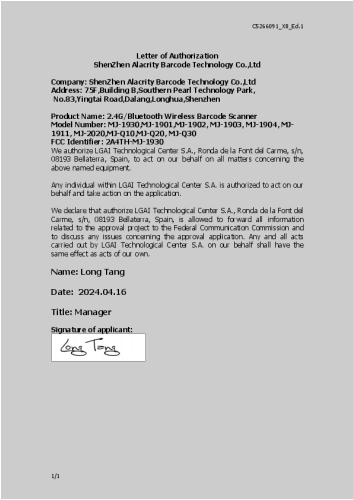
Date First Available: September 23, 2023

	<p>Q40 Animal Chip Scanner Instruction Manual</p> <p>Instruction manual for the Q40 low-frequency tag scanner, detailing its features, operation, and technical specifications for animal management and resource tracking.</p>
	<p>Shenzhen Alacrity MJ-X5 Mini Bluetooth Barcode Scanner User Guide</p> <p>Comprehensive guide for the Shenzhen Alacrity MJ-X5 Mini Bluetooth Barcode Scanner, covering features, performance parameters, connection methods, wireless pairing (2.4GHz and Bluetooth), and various operational settings for efficient data capture.</p>
<p>Беспроводной Bluetooth/2.4G Сканер Штрих-кода</p> <p>Руководство пользователя</p>	<p>Wireless Bluetooth/2.4G Barcode Scanner User Manual</p> <p>Comprehensive user manual for the Wireless Bluetooth/2.4G Barcode Scanner, detailing its features, technical specifications, operating modes, connection methods, safety precautions, and troubleshooting tips.</p>
<p>SIEMENS</p> <p>MJ-5(TM) Voltage Regulator Control Panel Installation and Operations Manual</p> 	<p>Siemens MJ-5(TM) Voltage Regulator Control Panel Installation and Operations Manual</p> <p>This manual provides comprehensive instructions for the installation, operation, and maintenance of the Siemens MJ-5(TM) Voltage Regulator Control Panel. It covers front panel controls, display screens, metering, data logging, and various operational modes like Voltage Limit Control, Line Drop Compensation, and Reverse Power Flow.</p>
<p>2D Barcode Scanner User Manual</p> <p>BROCHURE</p> 	<p>Symcode MJ-340 2D Barcode Scanner User Manual</p> <p>Comprehensive user manual for the Symcode MJ-340 2D Barcode Scanner, covering setup, performance specifications, communication modes, and configuration options.</p>
	<p>Hephk Audio YYK-Q30 Wireless Earbuds: Quick Start Guide and Technical Specifications</p> <p>Comprehensive guide for Hephk Audio YYK-Q30 wireless earbuds, covering setup, usage, touch commands, app functions, charging, and technical specifications. Includes FCC compliance information.</p>



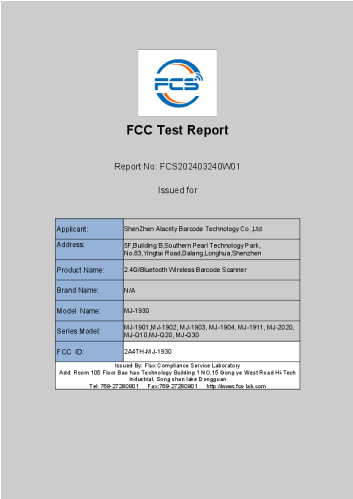
[pdf] Decleration of Conformity

Differences Description simple Family declaration Shenzhen Alacrity Barcode Technology Co Ltd MJ 1930 2 4G Bluetooth Wireless Scanner 2A4TH 2A4THMJ1930 mj
Model difference declaration letter Differences Description FCC ID2A4TH-MJ-1930
We ShenZhen Alacrity Barcode Technology Co.,Ltd state: Product Model Name 2.4G/Bluetooth Wireless Barcode Scanner MJ-1930,MJ-1901,MJ-1902,MJ-1903,MJ-1904, MJ-1911, MJ-2020,MJ-Q10,MJ-Q20, **MJ-Q30** We ShenZhen Alacrity ...
lang:en score:23 filesize: 111.34 K page_count: 1 document date: 2024-04-18



[pdf]

Microsoft Word C5266091 X8 Letter of Authorization Agent v1 Shenzhen Alacrity Barcode Technology Co Ltd MJ 1930 2 4G Bluetooth Wireless Scanner 2A4TH 2A4THMJ1930 mj
C5266091_X8_Ed.1 Letter of Authorization ShenZhen Alacrity Barcode Technology Co.,Ltd Company: ShenZ ... ode Scanner Model Number: MJ-1930,MJ-1901,MJ-1902, MJ-1903, MJ-1904, MJ1911, MJ-2020,MJ-Q10,MJ-Q20, **MJ-Q30** FCC Identifier: 2A4TH-MJ-1930 We authorize LGAI Technological Center S.A., Ronda de la Font d...
lang:en score:23 filesize: 147.17 K page_count: 1 document date: 2024-04-21



[pdf] Test Report

Measurement Report Kent Test reports Shenzhen Alacrity Barcode Technology Co Ltd MJ 1930 2 4G Bluetooth Wireless Scanner 2A4TH 2A4THMJ1930 mj
FCC Test Report Report No: FCS202403240W01 Issued for Applicant: Address: Product Name: ShenZhen A ... Name: MJ-1930 Series Model: MJ-1901,MJ-1902, MJ-1903, MJ-1904, MJ-1911, MJ-2020, MJ-Q10,MJ-Q20, **MJ-Q30** FCC ID: 2A4TH-MJ-1930 Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Ba...
lang:en score:21 filesize: 2.3 M page_count: 31 document date: 2024-04-26



Report No: EGS202403240W02

Issued for

Applicant:	ShenZhen Aicarsity Barcode Technology Co., Ltd
Address:	5F Building B, Southern Pearl Technology Park, No.83, Yingda Road, Daxiang Longhua, Shenzhen
Product Name:	2-4GBluetooth Wireless Barcode Scanner
Brand Name:	N/A
Model Name:	MJ-1930
Series Model:	MJ-1900, MJ-1962, MJ-1983, MJ-1904, MJ-1911, MJ-2000, MJ-Q10, MJ-Q20, MJ-Q30
FCC ID:	D4TH-MJ-930
<p>Issued by: Flun Compliance Service Laboratory Add: Room 108 Flun Bar Building 130-15 Gongye West Road Hi Tech Industrial, Shen zhen shi Guangdong</p>	

Measurement Report Kent Test reports Shenzhen Alacrity Barcode Technology Co Ltd MJ 1930 2 4G Bluetooth Wireless Scanner 2A4TH 2A4THMJ1930 mj

FCC Test Report Report No: FCS202403240W02 Issued for Applicant: Address:
Product Name: ShenZhen A ... Name: Series Model: N/A MJ-1930 MJ-1901,MJ-1902,
MJ-1903, MJ-1904, MJ-1911, MJ-2020,MJ-Q10,MJ-Q20, **MJ-Q30** FCC ID: 2A4TH-
MJ-1930 Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Ba...
lang:en score:21 filesize: 3.93 M page count: 40 document date: 2024-04-18

Model difference declaration letter

Differences	Description
1	1. The first difference is that the first group of students (Group A) was given a pre-test before the intervention, while the second group (Group B) was not.
2	2. The second difference is that the first group of students (Group A) was given a post-test after the intervention, while the second group (Group B) was not.
3	3. The third difference is that the first group of students (Group A) was given a pre-test before the intervention, while the second group (Group B) was not.
4	4. The fourth difference is that the first group of students (Group A) was given a post-test after the intervention, while the second group (Group B) was not.
5	5. The fifth difference is that the first group of students (Group A) was given a pre-test before the intervention, while the second group (Group B) was not.
6	6. The sixth difference is that the first group of students (Group A) was given a post-test after the intervention, while the second group (Group B) was not.
7	7. The seventh difference is that the first group of students (Group A) was given a pre-test before the intervention, while the second group (Group B) was not.
8	8. The eighth difference is that the first group of students (Group A) was given a post-test after the intervention, while the second group (Group B) was not.
9	9. The ninth difference is that the first group of students (Group A) was given a pre-test before the intervention, while the second group (Group B) was not.
10	10. The tenth difference is that the first group of students (Group A) was given a post-test after the intervention, while the second group (Group B) was not.

FCC ID: 2A4TH-MJ-Q40

We Shenzhen Alacety Barcode Technology Co., Ltd state:

Product: ANIMAL CHIP READER
Model Name: MJ-Q40,MJ-Q41,MJ-Q42,MJ-Q43,MJ-Q44,
MJ-Q45,MJ-Q46,MJ-Q47,MJ-Q48,MJ-Q49,
MJ-Q50

We (Shenzhen Alacrity Barcode Technology Co., Ltd) hereby state that all the models are electrical identical including the same software parameter and hardware design (i.e., circuit design, PCB Layout, RF module/circuit, antenna type(s) and antenna location, components on PCB, etc.), same mechanical structure and design (including product enclosure, materials, etc.) the only difference is the model name and appearance color.

Signatory

Signature _____
Date: 04.10.2024

Name: Long Tang Date: Apr 18, 2024

Title: Manager

Signature of applicant:

Long Tong

Letter of Authorization

ShenZhen Alacrity Barcode Technology Co.,Ltd
Company: ShenZhen Alacrity Barcode Technology Co.,Ltd
Address: 5F Building B,Southern Pearl Technology Park, No.83,Yingtai
Road Daling Longhua Shenzhen

Product Name: ANIMAL CHIP READER
Model Number: M3-Q40, M3-Q41, M3-Q42, M3-Q43, M3-Q44, M3-Q45, M3-Q46, M3-Q47, M3-Q48, M3-Q49, M3-Q50

FCC Identifier: 2A4TH-M3-040

We authorize LGAI Technological Center S.A., Ronda de la Font del Carme, s/n, 08193 Bellaterra, Spain, to act on our behalf on all matters concerning the above named equipment.

Any individual within LGAI Technological Center S.A. is authorized to act on our behalf and take action on the application.

We declare that authorize LGAI Technological Center S.A., Ronda de la Font del Carme, s/n, 08193 Bellaterra, Spain, is allowed to forward all information related to the approval project to the Federal Communication Commission and to discuss any issues concerning the approval application. Any and all acts carried out by LGAI Technological Center S.A. on our behalf shall have the same effect as acts of our.com

Name: Long Tang

Date: 2024.05.20

Title: Managers

Signature of applicant:

3/1

Differences Description simple Family declaration Enping Weiteng Audio Equipment Factory AR2090
2BGDV 2BGDVAR2090 ar2090

Model difference declaration letter Differences Description FCC ID2A4TH-MJ-Q40
We ShenZhen Alacrity Barcode Technology Co.,Ltd state: Product Model Name
ANIMAL CHIP READER MJ-Q40,MJ-Q41,MJ-Q42,MJ-Q43,MJ-Q44, MJ-Q45,MJ-
Q46,MJ-Q47,MJ-Q48,MJ-Q49, **MJ-Q30** We ShenZhen Alacrity Barcode Technology
Co.....

lang:en score:18 filesize: 112.24 K page count: 1 document date: 2024-05-15

[ShenZhen Alacrity Barcode Technology Co.,Ltd - Animal Chip Reader FCC Authorization Letter](#)

Official Letter of Authorization from ShenZhen Alacrity Barcode Technology Co.,Ltd
for their Animal Chip Reader product line (Models MJ-Q40 series) designating LGAI
Technological Center S.A. to act on their behalf for FCC approval processes.

lang:en score:18 filesize: 151.83 K page count: 1 document date: 2024-05-20



FCC Test Report

Report No: FCS202403310W02

Issued for

Applicant	ShenZhen Alacritiy Barcode Technology Co., Ltd
Address	1F Building B Southern Peak Technology Park, No.83, Yinghe Road,Dalang,Longhua,Shenzhen
Product Name	ANIMAL CHIP READER
Brand Name	N/A
Model Name	MJ-Q40
Series Model	MJ-Q41,MJ-Q42,MJ-Q43,MJ-Q44,MJ-Q45,MJ-Q46, MJ-Q47,MJ-Q48,MJ-Q49,MJ-Q30
FCC ID	2A4TH-MJ-Q40
Issued By: Flux Compliance Service Laboratory Add: Room 105 First Floor New Tech Building 1 No.15 Gonghe West Road Hi-Tech Industrial, Songshan Lake Dapeng Tel: 755-27280601 Fax: 755-27280601 Http://www.FCS-lab.com	

[pdf] Test Report

Measurement Report Kent Test report Enping Weiteng Audio Equipment Factory AR2090 2BGDV 2BGDVAR2090 ar2090

FCC Test Report Report No: FCS202403310W02 Issued for Applicant: Address: Product Name: ShenZhen A ... Name: MJ-Q40 Series Model: MJ-Q41,MJ-Q42, MJ-Q43, MJ-Q44, MJ-Q45 ,MJ-Q46, MJ-Q47, MJ-Q48, MJ-Q49,**MJ-Q30** FCC ID: 2A4TH-MJ-Q40 Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao...

lang:en score:15 filesize: 2.04 M page_count: 31 document date: 2024-05-28



FCC Test Report

Report No: FCS202403310W01

Issued for

Applicant	ShenZhen Alacritiy Barcode Technology Co., Ltd
Address	1F Building B Southern Peak Technology Park, No.83, Yinghe Road,Dalang,Longhua,Shenzhen
Product Name	ANIMAL CHIP READER
Brand Name	N/A
Model Name	MJ-Q40
Series Model	MJ-Q41,MJ-Q42,MJ-Q43,MJ-Q44,MJ-Q45,MJ-Q46, MJ-Q47,MJ-Q48,MJ-Q49,MJ-Q30
FCC ID	2A4TH-MJ-Q40
Issued By: Flux Compliance Service Laboratory Add: Room 105 First Floor New Tech Building 1 No.15 Gonghe West Road Hi-Tech Industrial, Songshan Lake Dapeng Tel: 755-27280601 Fax: 755-27280601 Http://www.FCS-lab.com	

[pdf] Test Report

Measurement Report Kent Test report Enping Weiteng Audio Equipment Factory AR2090 ANIMAL CHIP READER 2BGDV 2BGDVAR2090 ar2090

FCC Test Report Report No: FCS202403310W01 Issued for Applicant: Address: Product Name: ShenZhen A ... me: Series Model: N/A MJ-Q40 MJ-Q41,MJ-Q42, MJ-Q43, MJ-Q44, MJ-Q45 ,MJ-Q46, MJ-Q47, MJ-Q48, MJ-Q49,**MJ-Q30** FCC ID: 2A4TH-MJ-Q40 Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao...

lang:en score:15 filesize: 4.03 M page_count: 38 document date: 2024-05-28

FCC RF Exposure

EUT Description:2.4G/Bluetooth Wireless Barcode Scanner
ModelNo.:MJ-1930
Series Model: MJ-1901,MJ-1902, MJ-1903, MJ-1904, MJ-1911, MJ-2020,MJ-Q10,MJ-Q20, MJ-Q30
FCC ID: 2A4TH-MJ-1930
Equipment type: Portable Device

1. Test Procedure

According to KDB 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 60 mm are determined by

[Max. power of channel, including time-up tolerance, mW] /
[min. test separation distance, mm]² ≤ 2.0 for 1-g SAR and ≤ 7.6 for 10-g
averaging (SAR)

where

FCID 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 ≤ 60 mm and for transmission frequencies between 100 MHz and 6GHz.
When the minimum test separation distance is > 60 mm, a distance of 6 mm is applied to
determine SAR test exclusion.

2. Test Result of RF Exposure/Evaluation

BLE

Mode	Channel Freq. (MHz)	Maximum Conducted Output Power(P _{CE})	Antenna Gain (dB)	Antenna gain factor	Max time- up power (W)
OFDM	2400	2.36	0.54	1.13	0.0021677
	2440	2.30	0.54	1.13	0.0019408
	2480	2.28	0.54	1.13	0.0019408