

RJ Brands LLC

MPE ASSESSMENT REPORT

Report Type:

FCC Part §2.1091, §2.1093 and §1.1307(b) assessment report

Model:

CQ60-PR-01, CQ60-PR-02, CQ60-PR-03, CQ60-PR-04, CQ60-PR-05

REPORT NUMBER:

220302039SHA-002

ISSUE DATE:

May 30, 2022

DOCUMENT CONTROL NUMBER:

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Telephone: 86 21 6127 8200

www.intertek.com

Report no.: 220302039SHA-002

Applicant: RJ Brands LLC

200 Performance Drive, Mahwah, NJ 07495 USA

Manufacturer: Hzsamko Technologies Co.,Ltd.

No.8, Jiaqi Road, Xianlin Street, Yuhang District, Hangzhou, China.

Product Name: Smart Thermometer CHEF PROBE

Type/Model: CQ60-PR-01, CQ60-PR-02, CQ60-PR-03,CQ60-PR-04,CQ60-PR-05

FCC ID: 2A2YP-CQ60PROBE

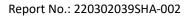
SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06 FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:	REVIEWED BY:	
Tylan tang	Wakeyou	
Project Engineer	Reviewer	
Dylan Tang	Wakeyou Wang	

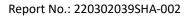
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Revision History

Report No.	Version	Description	Issued Date
220302039SHA-002	Rev. 01	Initial issue of report	May 30, 2022





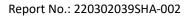
1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	CHEF PROBE		
Type/Model:	CQ60-PR-01, CQ60-PR-02, CQ60-PR-03, CQ60-PR-04, CQ60-PR-05		
	The EUT is CHEF PROBE, it supports Bluetooth function. The		
	differences between CQ60-PR-01 CQ60-PR-02, CQ60-PR-03, CQ60-PR-04 and CO60-PR-05 is that the decal number/color on the coramic		
	04 and CQ60-PR-05 is that the decal number/color on the ceramic handle. The models PCB layout and circuit design is the same. so		
Description of EUT:	choose CQ60-PR-03 to test as representative.		
Rating:	DC 3V, 0.03A		
Category of EUT:	Class B		
EUT type:	☐ Table top ☐ Floor standing		
Product Marketing Name:	CQ60-PR-01, CQ60-PR-02, CQ60-PR-03, CQ60-PR-04, CQ60-PR-05		
HVIN:	CQ60-PR-01, CQ60-PR-02, CQ60-PR-03, CQ60-PR-04, CQ60-PR-05		
Software Version:	0.5.3		
Hardware Version:	H		
	0220601-17-001(for radiation sample),		
Serial numbers:	0220601-17-002(for conduction sample)		
Sample received date:	March 31, 2022		
Date of test:	May 20, 2022 ~ May 30, 2022		

1.2 Technical Specification

Frequency Range:	2402-2480MHz
Support Standards:	IEEE 802.15.1
Type of Modulation:	GFSK
Channel Number:	3
Data Rate:	1Mbps
Antenna Information:	-13.71dBi, Metal antenna

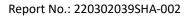




1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized,	CNAS Accreditation Lab Registration No. CNAS L0139
certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN1175
organizations.	IC Registration Lab CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02





TEST REPORT

All tests were sub-contracted.

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng Science and Technology Park,

Longhua District, Shenzhen, China 518109

Telephone: +86 (0) 755 2823 0888

Fax: +86 (0) 755 2823 0886

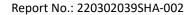
All tests were sub-contracted at Shenzhen UnionTrust Quality and Technology Co., Ltd, and conducted by Kieron Luo

Reviewed and approved by Wakeyou Wang from Intertek Testing Services Shanghai.

The test facility is recognized, certified, or accredited by the following organizations:

Name:	Shenzhen UnionTrust Quality and Technology Co., Ltd.
	Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and
Address:	technology park, Longhua district, Shenzhen, China, China 518109
Telephone:	+86 (0) 755 2823 0888
Telefax:	+86 (0) 755 2823 0886

The test facility is	CNAS Accreditation Lab
recognized,	Registration No. CNAS L9069
certified, or	FCC Accredited Lab
accredited by	Designation Number: CN1194
these organizations:	IC Registration Lab CAB identifier.: CN0032
	A2LA Accreditation Lab Certificate Number: 4312.01





2 MPE Assessment

Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (uT)	Equivalent plane wave power density Seq (W/m²)
0-1 Hz	-	3,2 × 10 ⁴	4 × 10 ⁴	-
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	4 000/f	5 000/f	-
0,025-0,8 kHz	250/f	4/f	5/f	-
0,8-3 kHz	250/f	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	0,73/f	0,92/f	-
1-10 MHz	87/f ^{1/2}	0,73/f	0,92/f	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	1,375 f ^{1/2}	0,0037 f ^{1/2}	0,0046 f ^{1/2}	f/200
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is \leq 1.0

ICT CCN

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2.2 Assessment Results

Power density (S) is calculated according to the formula:

 $S = PG / (4\pi R^2)$

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Where $S = power density in mW/cm^2$

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

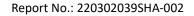
As we can see from the test report: 220302039SHA-001.

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

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Frequency band	Power		Antenna Gain	R	S	Limits
(MHz)	dBm	mW	dBi	(cm)	(mW/cm2)	(mW/cm2)
2402 – 2480	-8.02	0.16	-13.71	20	0.00002	1

Note: 1 mW/cm2 from 1.310 Table 1.





Appendix I

Definition below mu	ıst be outlined	l in the User I	Manual:
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To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.