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RF Exposure Evaluation Report

Report No. : CQASZ20210600036EX-01

Applicant: Shenzhen chuangxinlian Electronics Co., Ltd

Address of Applicant: B1-15G, xinghanghuafu, No.2, Xinghua Road, Xingwei community, Fuyong street, Bao'an District, Shenzhen

Manufacturer: Shenzhen chuangxinlian Electronics Co., Ltd

Address of Manufacturer: B1-15G, xinghanghuafu, No.2, Xinghua Road, Xingwei community, Fuyong street, Bao'an District, Shenzhen

Equipment Under Test (EUT):

Product: Wireless meat thermometer

All Model No.: CXL001

Test Model No.: CXL001

Brand Name: N/A

FCC ID: 2A2D2-CXL001

Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
KDB447498D01 General RF Exposure Guidance v06

Date of Test: Jun. 08, 2021 to Jun. 21, 2021

Date of Issue: Jun. 21, 2021

Test Result : **PASS**

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Sheek Luo
(Sheek Luo)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210600036EX-02	Rev.01	Initial report	Jun. 21, 2021

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3 General Information

3.1 Client Information

Applicant:	Shenzhen chuangxinlian Electronics Co., Ltd
Address of Applicant:	B1-15G, xinghanghuafu, No.2, Xinghua Road, Xingwei community, Fuyong street, Bao'an District, Shenzhen
Manufacturer:	Shenzhen chuangxinlian Electronics Co., Ltd
Address of Manufacturer:	B1-15G, xinghanghuafu, No.2, Xinghua Road, Xingwei community, Fuyong street, Bao'an District, Shenzhen

3.2 General Description of EUT

Product Name:	Wireless meat thermometer
All Model No.:	CXL001
Test Model No.:	CXL001
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.8
Bluetooth version	BLE
Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
Power Supply:	battery: 3.8V

4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 5.0 mm are determined by:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \cdot \sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.1.3 EUT RF Exposure

1) For BLE

Measurement Data

GFSK mode				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.950	4±1	5	3.162
Middle(2440MHz)	4.362	4±1	5	3.162
Highest(2480MHz)	4.407	4±1	5	3.162

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tuneup Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	3.950	4±1	5	3.162	0.980	3.0
Middle (2440MHz)	4.362	4±1	5	3.162	0.988	
Highest (2480MHz)	4.407	4±1	5	3.162	0.996	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210600036EX-01