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RF Exposure Evaluation Report

Report Template Version: V04

Report Template Revision Date: 2018-07-06

Report No.: CQASZ20201200039EX-02

Applicant: Shenzhen Chuangquan Electronics Co., Ltd.

Address of Applicant: No. 102, Building 2, Lane 18, Chilingtou Xinyi village Gaofeng Community,

Dalang Street, Longhua District, Shenzhen, Guangdong, China

Equipment Under Test (EUT):

EUT Name: Keyboard

Model No.: CQ63, CQ84, CQ006, CQ008, CQ009, CQ010, CQ068, CQ082, CQ87, Z-88,

CQ104, CQ088, CQ106, CQ108, CQ109, IK619, BT-815, BT-855, IK3381D,

K-600, Z-727, Z-77, K-700, K-620, K-630, X-7100, K-610, EK6210

Test Model No.: CQ63
Brand Name: N/A

 FCC ID:
 2AYFJ-CQ63N

 Standards:
 47 CFR Part 1.1307

 47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2020-11-30

Date of Test: 2020-11-30 to 2020-12-14

Date of Issue: 2020-12-28

Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above

Tested By:

(Jun Li)

Reviewed By:

(Ares Liu)

Approved By:

(Sheek Luo)

TEST I NG TECHNOLOGY

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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 CQA, this report can't be reproduced except in full.



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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20201200039EX-02	Rev.01	Initial report	2020-12-28



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3 General Information

3.1 Client Information

Applicant:	Shenzhen Chuangquan Electronics Co., Ltd.
Address of Applicant:	No. 102, Building 2, Lane 18, Chilingtou Xinyi village Gaofeng Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Chuangquan Electronics Co., Ltd.
Address of Manufacturer:	No. 102, Building 2, Lane 18, Chilingtou Xinyi village Gaofeng Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China

3.2 General Description of EUT

Product Name:	Keyboard	
All Model No.:	CQ63, CQ84, CQ006, CQ008, CQ009, CQ010, CQ068, CQ082, CQ87, Z-88, CQ104, CQ088, CQ106, CQ108, CQ109, IK619, BT-815 BT-855, IK3381D, K-600, Z-727, Z-77, K-700, K-620, K-630, X-7100, K-610, EK6210	
Test Model No.:	CQ63	
Trade Mark:	N/A	
Hardware Version:	V2.0	
Software Version:	V1.0.10	
Operation Frequency:	2402MHz~2480MHz	
Bluetooth Version:	BLE	
Modulation Type:	GFSK	
Transfer Rate:	1Mbps	
Number of Channel:	40	
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location	
Test Software of EUT:	Pixart BLE Utility	
Antenna Type:	Pcb antenna	
Antenna Gain:	0dBi	
EUT Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V	

Note: All model: CQ63, CQ84, CQ006, CQ008, CQ009, CQ010, CQ068, CQ082, CQ87, Z-88, CQ104, CQ088, CQ106, CQ108, CQ109, IK619, BT-815, BT-855, IK3381D, K-600, Z-727, Z-77, K-700, K-620, K-630, X-7100, K-610, EK6210

Only the model CQ63 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.



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4 SAR 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 ≤ 50 mm are determined by:

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

f(GHz) 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 \leq 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



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2) For BLE

Measurement Data

Mcasarcincin Data					
GFSK mode					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	-1.115	-2±1	-1	0.794	
Middle(2440MHz)	-1.221	-2±1	-1	0.794	
Highest(2480MHz)	-1.271	-2±1	-1	0.794	

Channel	Maximum Peak Conducted tolerance	Maximum tune- up Power		Calculated	Exclusion	
	Output Power (dBm)	Output Power (dBm)	(dBm)	(mW)	value	threshold
Lowest (2402MHz)	-1.115	-2±1	-1	0.794	0.246	
Middle (2440MHz)	-1.221	-2±1	-1	0.794	0.248	3.0
Highest (2480MHz)	-1.271	-2±1	-1	0.794	0.250	

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20201200039EX-01 BDR and BLE can not simultaneous transmitting at same time.