

Test Report No.: FM180829N012

RF EXPOSURE REPORT

Applicant	Amazon.com Services Inc.
Address	410 Terry Avenue North Seattle, United States, WA 98109

Manufacturer or Supplier	TCL Technoly Electronics(Huizhou) Co., Ltd.
Address	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, China, 516006.
Product	Echo Wall Clock
Brand Name	Amazon
Model	C8G55Z
Additional Model & Model Difference	N/A
Date of tests	Aug. 29, 2018 ~ Sep. 30, 2018

Tested by Tom Chen

- **KDB 447498 D01**
- **☐** IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Project Engineer / EMC Department	Supervisor/ EMC Department
Tom	Date: Dag 04 2019

Date: Dec. 04, 2018

Approved by Glyn He

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM180829N012	Original release	Dec. 04, 2018

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Report Version 1



1. CERTIFICATION

FCC ID:	UUU-8459		
PRODUCT:	Echo Wall Clock		
BRAND NAME: Amazon			
MODEL NO.:	C8G55Z		
ADDITIONAL NO.:	DNAL NO.: N/A		
APPLICANT: Amazon.com Services Inc.			
STANDARDS:	FCC Part 2 (Section 2.1091)		
	KDB 447498 D01		
	IEEE C95.1		

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2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)		
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE						
300-1500 F/1500 30						
1500-100,000			1.0	30		

F = Frequency in MHz

3. MPE CALCULATION FORMULA

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

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5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type	
Chain 0	2.89	PCB Antenna	

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
GFSK	2402-2480	4	+-1	3	5
8DPSK	2402-2480	4	+-1	3	5
LE-GFSK	2402-2480	6	+-1	5	7

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2480	4.09
8DPSK	2402	3.64
LE-GFSK	2402	6.59

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2402-2480	7	2.89	20	0.00194	1.0

--- END ---

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