

RF EXPOSURE REPORT

Applicant	Shenzhen Everbest Machinery Industry Co., Ltd.
Address	19th Building, 5th Region, Baiwangxin Industrial Park, SongBai Rd., Baimang, Xili, Nanshan, Shenzhen China

Manufacturer or Supplier	Shenzhen Everbest Machinery Industry Co., Ltd.
Address	19th Building, 5th Region, Baiwangxin Industrial Park, SongBai Rd., Baimang, Xili, Nanshan, Shenzhen China
Product	Mini Environment meters with Bluetooth
Brand Name	CEM
Model	DT-96B
Additional Model & Model Difference	DT-93, DT-90, DT-91, DT-92, DT-95, DT-96, DT-96H, DT-98, DT-99B, DT-99, see items 1
Date of tests	Apr. 04, 2018 ~ Jul. 05, 2018

☒ FCC Part 2 (Section 2.1091)

☒ KDB 447498 D01

☒ IEEE C95.1

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

Tested by Andy Zhu Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department
	
	Date: Aug. 22, 2018

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM180404N020	Original release	Aug. 22, 2018

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1. CERTIFICATION

FCC ID:	WIGDT96B
PRODUCT:	Mini Environment meters with Bluetooth
BRAND NAME:	CEM
MODEL NO.:	DT-96B
ADDITIONAL NO.:	DT-93, DT-90, DT-91, DT-92, DT-95, DT-96, DT-96H, DT-98, DT-99B, DT-99
APPLICANT:	Shenzhen Everbest Machinery Industry Co., Ltd
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



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/cm ²)	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

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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**.

5. ANTENNA GAIN

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

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	2.5	Ceramic 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)
LE-GFSK	2402-2480	-9	+2	-11	-7

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
LE-GFSK	2402	-8.14

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	-7	2.5	20	0.000071	1.0

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