

Test Report No.: FS170105N019

RF EXPOSURE REPORT

Applicant	Sensoro Co., Ltd.
Address	Room 2807, Building 1B, Wangjing SOHO, No10 Wangjing Street, Chaoyang District, Beijing, China

Manufacturer or Supplier	Sensoro Co., Ltd.
Address	Room 2807, Building 1B, Wangjing SOHO, No10 Wangjing Street, Chaoyang District, Beijing, China
Product	α Base Station
Brand Name	sensoro
Model	BST-10B
Additional Model & Model Difference	N/A
Date of tests	Jan. 15, 2017 ~ Feb. 20, 2017
1	

- **◯** FCC Part 2 (Section 2.1091)
- **⊠** IEEE C95.1

$\textbf{CONCLUSION: The submitted sample was found to } \underline{\textbf{COMPLY}} \text{ with the test requirement}$

Tested by Breeze Jiang	Approved by Glyn He
Project engineer/ EMC Department	Supervisor / EMC Department

green

Date: Apr. 24, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS170105N019	Original release	Apr. 24, 2017

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1. CERTIFICATION

FCC ID:	2ADYO-S0010X		
PRODUCT:	α Base Station		
BRAND NAME:	sensoro		
MODEL NO.:	BST-10B		
ADDITIONAL NO.:	N/A		
TEST SAMPLE:	LE: Engineering Sample		
APPLICANT:	Beijing Sensoro Technology Co.,Ltd.		
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)			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
BT-LE(GFSK)	0.9	Integral PCB Antenna
CSS	5	External Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2402-2480(BT-LE)	1.091	0.9	20	0.000267	1.0
902-928MHz(For 1276)	154.17	5	20	0.09699	0.6
902-928MHz(For 1301)	409.26	5	20	0.25747	0.6

CONCLUSION:

The CSS and BT-LE can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

(0.000267/1)+(0.09699/0.6)+(0.25747/0.6)=0.591<1, which is less than the "1" limit.

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