

EMC-TRF-03 Rev 1.1 Report No.: GZCR230300031804

Page: 1 of 9 FCC ID: 2BBDS-TAD

# RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2303000318AT

Applicant: Vision IOT Inc

Address of Applicant: 22994 LAVENDER VALLEY CT, ASHBURN, VA 20148

Manufacturer: Vision IOT Inc

Address of Manufacturer: 22994 LAVENDER VALLEY CT, ASHBURN, VA 20148

Factory: SHI JIAZHUANG OURPCB Tech. Ltd

Address of Factory: 3RD FLOOR NANHAI PLAZA, NO.505 XINHUA ROAD, XINHUA

DISTRICT, SHIJIAZHUANG, HEBEI, CHINA

**Equipment Under Test (EUT):** 

**EUT Name:** Smart Tag AON

Model No.: STONET2A433D, STONET2B433D ♣

Please refer to section 2 of this report which indicates which item was

actually tested and which were electrically identical.

Trade Mark: Vision IoT

Standard(s): 47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

 Date of Receipt:
 2023-03-27

 Date of Evaluation:
 2023-04-13

 Date of Issue:
 2023-05-09

Evaluation Result: Pass\*





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<sup>\*</sup> In the configuration evaluated, the EUT complied with the standards specified above.



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Revision Record						
Version Report No. Date Remark						
01	01 GZCR230300031804		Original			

Authorized for issue by:		
	Cof Vu	
	Curry Wu/Project Engineer	
	vius cui	
	Vico Cui/Reviewer	



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## 2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	47 CFR Part 1.1310	Pass

#### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

### ♣ Declaration of EUT Family Grouping:

Model No.: STONET2A433D, STONET2B433D

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the sensor type:

Model	Sensor
STONET2A433D	On board
STONET2B433D	External wired door sensor

Therefore, only one model STONET2A433D was tested in this report.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: DC 7.2V =Size 'A' battery x2

BLE:

Operation Frequency: 2402MHz to 2480MHz

Modulation Type: GFSK Number of Channels: 40 Channel Spacing: 2MHz

Antenna type PCB antenna Antenna gain 2.96dBi Power setting default

2.4GHz WiFi:

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz

Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM,

16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11

Channel Spacing: 5MHz

Antenna Type: Chip Antenna

Antenna Gain: 4.25dBi Power setting Default

LTE module: FCC ID: XMR201910BG95M3

Antenna gain: 4.61dBi

### 4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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## 4.3 Facility

The facility is recognized, certified, or accredited by the following organizations:

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

### SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

### FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

## • ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

#### VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

### • CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

### 4.4 Deviation from Standards

None

### 4.5 Abnormalities from Standard Conditions

None



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## 5 Technical Requirements Specification

### 5.1 General Description of Applied Standards

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.

### 5.2 RF Exposure Evaluation

#### 5.2.1 Limit & Test Method

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)					
(A) Limits for Occupational/Controlled Exposures									
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6					
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure						
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30					

F= Frequency in MHz

Friis Formula

Friis transmission formula:  $P_d = (P_{out}*G)/(4*P_i*R^2)$ 

Where

P<sub>d</sub> = power density in mW/cm<sup>2</sup>

P<sub>out</sub> = output power to antenna in mW

G = gain of antenna in linear scale

 $P_i = 3.1416$ 

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

P<sub>d</sub> id the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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#### 5.2.2 Conclusion

Normal use condition for

Distance between 20cm declared by applicant

antenna and body:

#### For Bluetooth BLE

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2402	1.977	-0.08	0.982	0.00038	1	Complies
2440	1.977	0.68	1.169	0.00046	1	Complies
2480	1 977	0.84	1.213	0.00047	1	Complies

#### For 2.4 GHz Wi-Fi

-01 2.4 GHZ WI-FI								
Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result		
11B								
2412	2.661	9.63	9.183	0.00486	1	Complies		
2437	2.661	9.91	9.795	0.00518	1	Complies		
2462	2.661	9.97	9.931	0.00526	1	Complies		
11G								
2412	2.661	11.17	13.092	0.00693	1	Complies		
2437	2.661	11.36	13.677	0.00724	1	Complies		
2462	2.661	11.39	13.772	0.00729	1	Complies		
11N20								
2412	2.661	11.17	13.092	0.00693	1	Complies		
2437	2.661	11.28	13.428	0.00711	1	Complies		
2462	2.661	11.40	13.804	0.00731	1	Complies		
For 4G LTE								
LTE B2	2.891	22	158.489	0.09114	1	Complies		
LTE B4	2.891	22	158.489	0.09114	1	Complies		
LTE B5	2.891	22	158.489	0.09114	0.566	Complies		
LTE B12	2.891	22	158.489	0.09114	0.477	Complies		
LTE B13	2.891	22	158.489	0.09114	0.525	Complies		
LTE B25	2.891	22	158.489	0.09114	1	Complies		
LTE B26	2.891	22	158.489	0.09114	0.566	Complies		
LTE B66	2.891	22	158.489	0.09114	1	Complies		
LTE B85	2.891	22	158.489	0.09114	0.477	Complies		

The Bluetooth and Wi-Fi can be transmitted together, the result is

0.00047/1+0.00729/1 +0.09114/0.477=0.1988< 1.0

So SAR report is not required.

Note: Refer to reports No. GZCR230300031802 and GZCR230300031803 & FCC ID: XMR201910BG95M3 for EUT test Max Conducted Peak Output Power value.



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## **EUT Constructional Details (EUT Photos)**

Refer to External and Internal Photos for GZCR2303000318AT

- End of the Report -



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