



RF EXPOSURE REPORT

Applicant	:	CYG Contron Co., Ltd.
Address of Applicant	:	No.11 of the 6th Technology Road, National high-tech Industries Development Zone, Zhu Hai City, Guang Dong, China
Manufacturer	:	CYG Contron Co., Ltd.
Address of Manufacturer	:	No.11 of the 6th Technology Road, National high-tech Industries Development Zone, Zhu Hai City, Guang Dong, China
Equipment under Test	:	Smart Key
Model No.	:	E402
FCC ID	:	2BNTRE402
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06
Report No.	:	DDT-RE25012301-2E06
Issue Date	:	2025/03/20
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Model No.	:	E402
Manufacturer	:	CYG Contron Co., Ltd.
Address of Manufacturer	:	No.11 of the 6th Technology Road, National high-tech Industries Development Zone, Zhu Hai City, Guang Dong, China

Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE25012301-2E06		
Date of Receipt:	2025/02/17	Date of Test:	2025/02/17 - 2025/03/20

Prepared By:**Tiger Mo/Engineer****Approved By:****Damon Hu /EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
---	Initial issue	2025/03/20	

1. General Test Information

1.1. Description of EUT

EUT Name	:	Smart Key
Model Number	:	E402
Difference of model number	:	/
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 5V powered by an external adapter or a built-in 3.7V lithium battery.
Hardware Version	:	WL175001 A.1
Software Version	:	1.0.0.31691

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Manufacturing Tolerance

Mode	Antenna	Frequency [MHz]	Target (dBm)	Tolerance \pm (dB)
BLE	Ant1	2402	-4.47	2
		2441	-4.85	2
		2480	-4.70	2
SRD	Ant1	0.154	-33.69	2

0.154MHz PK Output Power=61.51dBuV/m@3m-95.2=-33.69dBm

Estimation Result

[2402MHz, -2.47dBm, (0.57 mW) output power], $(0.57/5) \cdot [\sqrt{2.402(\text{GHz})}] = 0.18$

[0.154MHz, -31.69dBm, (0.0007 mW) output power], $(0.0007/5) \cdot [\sqrt{0.000154(\text{GHz})}] = 0.000002$

Worse case is as below: BLE+SRD=0.18+0.000002=0.180002< 3.0 for 1-g SAR

The SAR evaluation is not required.

-----End Report-----