



## Shenzhen Huaxia Testing Technology Co., Ltd.

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# RF Exposure Evaluation Report

**Report No.:** CQASZ20221101981E-02  
**Applicant:** Shenzhen Mingchuangzhilian Technology Co., Ltd  
**Address of Applicant:** 4/F, B Block, No.3, East Region, Shangxue Science Park, Bantian St, Longgang Dist, Shenzhen, China

**Equipment Under Test (EUT):**  
**EUT Name:** Baby Monitor  
**Model No.:** SM43A, SM43ATX, SM43B, SM43BTX, SM43C, SM43CTX, SM43TX, SM43D, SM43DTX  
**Test Model No.:** SM43A  
**Brand Name:** N/A  
**FCC ID:** 2AZBU-43ATX  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 1.1310  
447498 D04 Interim General RF Exposure Guidance v01

**Date of Receipt:** 2022-11-23  
**Date of Test:** 2022-11-23 to 2022-12-27  
**Date of Issue:** 2023-01-14  
**Test Result:** **PASS\***

\*In the configuration tested, the EUT complied with the standards specified above

**Tested By:** Lewis Zhou  
( Lewis Zhou )

**Reviewed By:** Timo Lei  
( Timo Lei )

**Approved By:** Jack Ai  
( Jack Ai )



## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20221101981E-02	Rev.01	Initial report	2023-01-14

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### 3 General Information

#### 3.1 Client Information

Applicant:	Shenzhen Mingchuangzhilian Technology Co., Ltd
Address of Applicant:	4/F, B Block, No.3, East Region, Shangxue Science Park, Bantian St, Longgang Dist, Shenzhen, China
Manufacturer:	Shenzhen Mingchuangzhilian Technology Co., Ltd
Address of Manufacturer:	4/F, B Block, No.3, East Region, Shangxue Science Park, Bantian St, Longgang Dist, Shenzhen, China
Factory:	Shenzhen Mingchuangzhilian Technology Co., Ltd
Address of Factory:	4/F, B Block, No.3, East Region, Shangxue Science Park, Bantian St, Longgang Dist, Shenzhen, China

#### 3.2 General Description of EUT

Product Name:	Baby Monitor
Model No.:	SM43A, SM43ATX, SM43B, SM43BTX, SM43C, SM43CTX, SM43TX, SM43D, SM43DTX
Test Model No.:	SM43A
Trade Mark:	N/A
Software Version:	V10
Hardware Version:	V03
EUT Power Supply:	Model No.:GQ07-050100-AU Input:100-240V~50/60Hz 0.3A Output:5V 1A 5W

#### 3.3 General Description of 2.4G custom

Operation Frequency:	2410MHz~2473MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK
Number of Channel:	19
Transfer Rate:	1Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable
Antenna Type:	External antenna
Antenna Gain:	2dBi

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

## 4 MPE Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least  $\lambda/2\pi$ . The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP<sub>20cm</sub> in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

#### 4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

### 4.1.3 EUT RF Exposure

#### 1) For 2.4G custom

Output Power Into Antenna & RF Exposure Evaluation Distance:

#### Measurement Data

Test channel	GFSK mode				
	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2402MHz)	13.65	11.5	11.5±1	12.5	17.78
Middle(2441MHz)	14.31	12.16	12.0±1	13.0	19.95
Highest(2480MHz)	14.67	12.52	12.5±1	13.5	22.39

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20221101981E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's Bluetooth module is more than 20cm away from the human body.

\*\*\* END OF REPORT \*\*\*