



FCC RF EXPOSURE REPORT

For

Digital Video Baby Monitor

MODEL NUMBER: SCD843/37, SCD8ab/**

FCC ID: 2AW4TSCD843

REPORT NUMBER: 4789480255.3-12

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Prepared for

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Revision History

| <u>Rev.</u> | <u>Issue Date</u> | <u>Revisions</u> | <u>Revised By</u> |
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| V0 | 08/04/2020 | Initial Issue | |



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: PHILIPS Electronics Hong Kong Limited
 Address: G/F, Building 5E, No. 5, Science Park East Avenue,
 Hong Kong Science Park, ShaTin, New Territories, Hong Kong

Manufacturer Information

Company Name: PHILIPS Electronics Hong Kong Limited
 Address: G/F, Building 5E, No. 5, Science Park East Avenue,
 Hong Kong Science Park, ShaTin, New Territories, Hong Kong

Factory Information

Company Name: Sky Light Electronic (ShenZhen) Limited
 Address: No. 8 Building 1F-5F & 9 Building 1F-2F, AnTuoShan High-tech
 Industrial Park, XinSha Road, ShaJing, Bao'An, Shenzhen.

EUT Information

EUT Name: Digital Video Baby Monitor
 Model: SCD843/37
 Serial Model: SCD8ab/**
 Model difference: Please refer to clause 4. Description of EUT
 Brand: PHILIPS/AVENT
 Sample Received Date: July 23, 2020
 Sample Status: Normal
 Sample ID: 3059230
 Date of Tested: July 23, 2020 ~ Aug 03, 2020

| APPLICABLE STANDARDS | |
|----------------------|--------------|
| STANDARD | TEST RESULTS |
| FCC 47CFR§2.1091 | Complies |

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

| | |
|---------------------------|--|
| Test Location | Dongguan Dongdian Testing Service Co., Ltd |
| Address | No. 17, Zongbu Road 2, Songshan Lake Sci&Tech Park, Dongguan City, Guangdong Province, 523808, China |
| Accreditation Certificate | <p>Dongguan Dongdian Testing Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until January 31, 2018.</p> <p>Dongguan Dongdian Testing Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 270092, Renewal date March 11, 2015, valid time is until March 11, 2018.</p> <p>The 3m Alternate Test Site of Dongguan Dongdian Testing Service Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 10288A on April 23, 2015, valid time is until April 23, 2018.</p> |



4. DESCRIPTION OF EUT

| | |
|--------------------------|---|
| EUT Name | Digital Video Baby Monitor |
| EUT Description | EUT has two parts, Parent Unit and Baby Unit |
| Model | SCD843/37 |
| Series Model | SCD8ab/** |
| Model Difference | <p>Digital Video Baby Monitor, with following model number consist of the various stroke versions which are similar in electrical, mechanical and physical construction.</p> <p>SCD8ab/** is a combination of two sets devices of VPH01 BU & VPH02 PU, VPH 03 BU & VPH 04 PU.</p> <p>The difference between VPH01 BU & VPH03 BU is that VPH03 BU has an extra plastic button and temperature sensor function. All the differences are not affect the RF circuits.</p> <p>The difference between VPH02 PU & VPH 04 PU is that VPH04 PU has an extra vibration feature and 3.5" LCD, VPH02 PU has a 2.7 "LCD. All the differences are not affect the RF circuits.</p> <p>"a" can be 3 or 4 consist the colour screen size. - "3" mean this set device include the 2.7 " LCD PU device, "4" mean this set device include the 3.5" LCD PU device</p> <p>"b" can be 1 or 3 or 5 consist the product feature (night light, temperarue monitor, vibration feature)</p> <p>"1" mean the device have basic function night light;</p> <p>"3" mean the device have night light, temperature monitor, vibration functions.</p> <p>"5" mean the device have night light, temperature monitor, vibration functions with a Smart ECO Mode. (The Smart ECO mode is a power management by firmware and maintain the PU std-by time longer a bit. No affect the EMC test and RF characteristics.)</p> <p>SCD831/**with VPH01 BU + VPH02 PU devices (with night light function)</p> <p>SCD833/**with VPH03 BU + VPH02 PU devices (with night light, temperature monitor function)</p> <p>SCD835/**with VPH03 BU + VPH02 PU devices (with night light, temperature monitor function)</p> <p>SCD841/**with VPH01 BU + VPH04 PU devices (with night light, vibration feature)</p> <p>SCD843/**with VPH03 BU + VPH04 PU devices (with night light, temperature monitor, vibration feature)</p> <p>SCD845/**with VPH03 BU + VPH04 PU devices (with night light, temperature monitor, vibration feature)</p> <p>***" denoting the various accessories or different style packaging used.</p> <p>Stroke version/** representative to the different country selling destination.</p> |
| Technology | 2.4G wireless |
| Transmit Frequency Range | 2406 MHz ~ 2463 MHz |
| Modulation | GFSK |
| Rated input | Input: DC 5V/1A via AC DC Adapter |



| | |
|---------|-----------------------------------|
| Adapter | ASSA105A-050100 and PSAC05E-050L6 |
|---------|-----------------------------------|

Note :

1. All models are under consideration at FCC Part15, Subpart B. And only the worst model SCD843/37 recorded in this report.
2. This report only for Baby Unit.

5. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

| Frequency Range (MHz) | E-field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Time E ² , H ² or S (Minutes) |
|-----------------------|----------------------------|-----------------------------------|---|---|
| 0.3 -- 1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34 -- 30 | 824/f | 2.19/f | (180/f ²)* | 30 |
| 30 -- 300 | 27.5 | 0.073 | 0.2 | 30 |
| 300 -- 1500 | -- | -- | f/1500 | 30 |
| 1500 -- 100,000 | -- | -- | 1.0 | 30 |

CALCULATION METHOD

$$S = PG / 4\pi R^2$$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

**CALCULATED RESULTS**

| Baby Unit | | | | | |
|-----------|--------------|--------------|--------------------|---------------------|-------------|
| Frequency | Output Power | Output Power | Power Density | Power Density Limit | Test Result |
| MHz | dBm | mW | mW/cm ² | mW/cm ² | -- |
| 2406-2463 | 19 | 79.43 | 0.028 | 1.0 | Complies |

- Note: 1. Antenna Gain=2.21Bi (Numeric 1.66), $\pi=3.141$.
2. The Power comes from report Operation Description.
3. The minimum separation distance of the device is greater than 19.69 cm.
4. Calculate by WORST-CASE mode.
5. Owing to the maximum Calculated Result is below the limit, so it deemed to comply with the basic restrictions without testing which means that no SAR is required.

END OF REPORT