



Report No.: TBR-C-202205-0149-4
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RF Exposure Evaluation

FCC ID: ERY266M7Q

1. Client Information

| | | |
|--------------|---|---|
| Applicant | : | Seco Larm USA Inc |
| Address | : | 16842 Millikan Ave, Irvine, CA 92606 |
| Manufacturer | : | SHENZHEN YIJIA ELECTRONICS CO., LTD |
| Address | : | Room 708-711, Tiancheng Building, Guanguang Road No.1221, Guanlan Subdistrict, Longhua district, Shenzhen, China. |

2. General Description of EUT

| | | |
|---------------------|----------------------|---|
| EUT Name | : | Wireless video doorphone |
| Model(s) No. | : | DP-266-M7Q |
| Model Different | : | ---- |
| Sample ID | : | RW-C-202205-0149-3-1# RW-C-202205-0149-3-2# |
| Product Description | Operation Frequency: | 2406MHz~2480MHz |
| | Number of Channel: | 16channels |
| | RF Output Power: | 4.32dBm |
| | Antenna Gain: | 0dBi Copper tube Antenna |
| Power Supply | : | Adapter(GQ12-120100-CU) Input: 100-240V~50/60Hz 0.4A Max Output: DC12V1A DC 3.7V by 4000mAh 14.8Wh Rechargeable Li-ion battery |
| Software Version | : | ENFORCER V2.4.1 |
| Hardware Version | : | KDB700-IN-VER:1.8 |

Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

Note: More test information about the EUT please refer the RF Test Report.

TB-RF-074-1.0

The RF Exposure Evaluation for FCC:

SAR Test Exclusion Calculations

FCC: According to 447498 D04 Interim General RF Exposure Guidance v01.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20\text{cm}}$ is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

| Frequency (MHz) | Distance (mm) | | | | | | | | | |
|-----------------|---------------|----|----|-----|-----|-----|-----|-----|-----|-----|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 300 | 39 | 65 | 88 | 110 | 129 | 148 | 166 | 184 | 201 | 217 |
| 450 | 22 | 44 | 67 | 89 | 112 | 135 | 158 | 180 | 203 | 226 |
| 835 | 9 | 25 | 44 | 66 | 90 | 116 | 145 | 175 | 207 | 240 |
| 1900 | 3 | 12 | 26 | 44 | 66 | 92 | 122 | 157 | 195 | 236 |
| 2450 | 3 | 10 | 22 | 38 | 59 | 83 | 111 | 143 | 179 | 219 |
| 3600 | 2 | 8 | 18 | 32 | 49 | 71 | 96 | 125 | 158 | 195 |
| 5800 | 1 | 6 | 14 | 25 | 40 | 58 | 80 | 106 | 136 | 169 |

Calculation:

| Test separation: 5mm | | | | | |
|----------------------|-----------------------|------------------------------|--------------------------------------|-------------------------------------|----------------------------|
| 2.4G Mode | | | | | |
| Frequency (GHz) | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (dBm) | Max power of tune up tolerance (mW) | Limit P _{th} (mW) |
| 2.406 | 4.32 | 3.5±1 | 4.5 | 2.818 | 3 |
| 2.440 | 3.75 | 3±1 | 4 | 2.512 | 3 |
| 2.480 | 4.12 | 3.5±1 | 4.5 | 2.818 | 3 |

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D04, No SAR is required.

-----END OF REPORT-----