

# RF Exposure Evaluation

## FCC ID: 2AHTUSB5-MAIN

### 1. Client Information

**Applicant** : Digitech Asia Ltd  
**Address** : Suite 61, 76 Macdonnell Road Hong Kong  
**Manufacturer** : Xunlei Yuanda Technology (Shenzhen) Co., Limited  
**Address** : 3rd Floor, Baicai Technology Park, Beihuan Road, Shiyuan Street, Baoan District, Shenzhen, PRC

### 2. General Description of EUT

|                               |   |  |                        |
|-------------------------------|---|--|------------------------|
| <b>EUT Name</b>               | : | Baby Safety--main unit                   |                        |
| <b>Models No.</b>             | : | SB-5                                     |                        |
| <b>Model Difference</b>       | : | N/A                                      |                        |
| <b>Product Description</b>    | : | Operation Frequency:<br>BLE:2402~2480MHz |                        |
|                               |   | Number of Channel:                       | BLE:40 Channels        |
|                               |   | Max Peak Output Power:                   | GFSK:4.12 dBm          |
|                               |   | Antenna Gain:                            | 1 dBi Integral Antenna |
|                               |   | Modulation Type:                         | 1Mbps(GFSK)            |
| <b>Power Supply</b>           | : | DC power by battery                      |                        |
| <b>Power Rating</b>           | : | DC 3V by 2*1.5V AAA Battery.             |                        |
| <b>Connecting I/O Port(S)</b> | : | Please refer to the User's Manual        |                        |

#### Note:

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

## SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance  $\leq 5$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0$  for 1-g SAR

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0$  for 10-g SAR

2.

**Calculation:**

| Test separation: 5mm |                       |                              |                                     |                   |                 |
|----------------------|-----------------------|------------------------------|-------------------------------------|-------------------|-----------------|
| BLE Mode (GFSK)      |                       |                              |                                     |                   |                 |
| Frequency (GHz)      | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.402                | 4.01                  | ±0.5                         | 2.825                               | 0.876             | <b>3.0</b>      |
| 2.442                | 4.12                  | ±0.5                         | 2.897                               | 0.905             | <b>3.0</b>      |
| 2.480                | 4.09                  | ±0.5                         | 2.877                               | 0.906             | <b>3.0</b>      |

**So standalone SAR measurements are not required.**