

# RF Exposure Evaluation

## FCC ID: 2AHTUSB5-SLAVE

### 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-slave unit	
<b>Models No.</b>	:	SB-5	
<b>Model Difference</b>	:	N/A	
<b>Product Description</b>	:	Operation Frequency: Bluetooth:2402~2480MHz	
	:	Number of Channel:	BLE:40 Channels
	:	Max Peak Output Power:	GFSK:4.26 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:

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

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

## 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	4.26	±0.5	2.992	0.928	3.0
2.442	4.09	±0.5	2.877	0.899	3.0
2.480	4.10	±0.5	2.884	0.908	3.0

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