

RF Exposure

Applicant : Kumi Technology Co., Ltd.
405A, 4th Floor, Building A, Chuanglingtong Technology
Address : Building, Shihua Road, Fubao Community, Fubao Street,
Futian District, Shenzhen
Product Name : KUMI Smart Watch
Brand Mark : KUMI
Model : KUMI Soar OH
FCC ID : 2A2L4-SOAROH
Report Number : BLA-EMC-202509-A7403
Date of Receipt : Sep. 23, 2025
Date of Test : Sep. 23, 2025 to Oct. 13, 2025
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by:

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Review by:

Xavier

Approved by:



Issued Date: Oct. 27, 2025

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Address: Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China



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Revise Record

Version No.	Date	Description
01	Oct. 27, 2025	Original

1 General information

1.1 General information

Applicant	Kumi Technology Co., Ltd.
Address	405A, 4th Floor, Building A, Chuanglingtong Technology Building, Shihua Road, Fubao Community, Fubao Street, Futian District, Shenzhen
Manufacturer	Shenzhen Tenxinbona Technology Co., Ltd.
Address	405, 4th Floor, Building A, Chuanglingtong Technology Building, Shihua Road, Fubao Community, Fubao Street, Futian District, Shenzhen(405, Building A, Financial Technology Innovation Center, No. 1 Shihua Road, Hetao Sci-Tech Innovation Center)
Factory	Kumi Technology Co., Ltd.
Address	405A, 4th Floor, Building A, Chuanglingtong Technology Building, Shihua Road, Fubao Community, Fubao Street, Futian District, Shenzhen

1.2 General description of EUT

Product name	KUMI Smart Watch
Model no.	KUMI Soar OH
Series model	N/A
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Rate data:	1Mbps; 2Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	Internal antenna
Antenna Gain:	0dBi(Provided by customer)
Power supply or adapter information	DC3.8V by battery
Hardware Version	N/A
Software Version	N/A

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

BlueAsia

2 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
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3 RF Exposure Compliance Requirement

3.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

3.2 Limits

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

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).

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

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

3.3 Result

$$\text{EIRP} = \text{pt} \times \text{gt} = (\text{E} \times \text{d})^2 / 30$$

Where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,

d = measurement distance in meters (m)

$$\text{Spot} = (\text{E} \times \text{d})^2 / 30 \times \text{gt}$$

Separation distance = 0.5cm

Ant gain = 0dBi

For BLE(Worst):

Max Output power = 1.032dBm @ 2402MHz

$$\text{EIRP} = 1.032\text{dBm} + 0\text{dBi} = 1.032\text{dBm} = 1.268\text{mW} < 2.676\text{mW}$$

$$\text{ERP} = 1.032 - 2.15 = -1.118\text{dBm}$$

Comply with RF exposure exemption limit.

----END OF REPORT----

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