TEST REPORT

Product Name	:	HAYLOU Watch S8
Brand Mark	:	Haylou
Model No.	:	HAYLOU Watch S8
FCC ID	:	2AMQ6-S8
Report Number	:	BLA-EMC-202311-A3504
Date of Sample Receipt	:	2023/11/13
Date of Test	:	2023/11/14 to 2023/11/20
Date of Issue	:	2023/11/22
Test Standard	:	KDB447498D04 General RF Exposure Guidance v01
Test Result	:	Pass

Prepared for:

Dongguan Liesheng Electronic Co., Ltd.
Room 401-410, Building 1, No.86 Hongtu Road, Nancheng District, Dongguan City, Guangdong, China

Prepared by:

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Date: 2023/11/22

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

REPORT REVISE RECORD

Version No.	Date	Description
00	2023/11/22	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

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2 GENERAL INFORMATION

Applicant	Dongguan Liesheng Electronic Co., Ltd.
Address	Room 401-410, Building 1, No.86 Hongtu Road, Nancheng District, Dongguan City, Guangdong, China
Manufacturer	Dongguan Liesheng Electronic Co., Ltd.
Address	Room 401-410, Building 1, No.86 Hongtu Road, Nancheng District, Dongguan City, Guangdong, China
Factory	Shenzhen Smart Care Technology Limited
Address	The 6th Floor, Block 2, Huixin Science and Technology Industrial Park, Fuhai street, Bao'an District, Shenzhen,China
Product Name	HAYLOU Watch S8
Test Model No.	HAYLOU Watch S8

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	JL14-MB-V12
Software Version	N/A

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	BREDR:GFSK,pi/4DQPSK,8DPSK BLE:GFSK(Data Rata:1Mbps;2Mbps)
Channel Spacing:	BREDR:1MHz BLE:2MHz
Number of Channels:	BREDR:79 BLE:40
Antenna Type:	FPC Antenna
Antenna Gain:	-4.8dBi(Provided by the customer)

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4 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co.,Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

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5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 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.

5.2 LIMITS

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

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

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

Ant gain = -4.8dBi
BREDR:
Max Output power =3.71dBm @EDR@ 2402MHz
ERP = 3.71dBm-4.8dBi-2.15=-3.24dBm
So

worse case：

10^-0.324=0.474mW < 2.79 mW
Comply with RF exposure exemption limit.

BLE:
Max Output power =7.417dBm @BLE 2M@ 2402MHz
ERP = 7.417dBm-4.8dBi-2.15=0.467dBm
So

worse case：

10^0.0467=1.114mW < 2.79 mW
Comply with RF exposure exemption limit.

----END OF REPORT----

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