

RF Exposure

Applicant: Shenzhen LiteTrace TechnologiesCo., Ltd

305 Suite C, 3151 Shahe West Street Jianxing Technology

Plaza, Nanshan Shenzhen, China

Product Name : Wall Switch

Brand Mark : Keilton

Model : WP1018.A0

Series model * : WP1018YYYYY

Report Number : BBLA-EMC-202506-A1703

FCC ID : 2A26YWP1018

Date of Receipt : Jun.11,2025

Date of Test : Jun.11,2025 to Jun.20,2025

47 CFR Part 15, Part1.1307

Test Standard : 47 CFR Part 15, Part2.1093

KDB447498D04 General RF Exposure Guidance v01

Test Result : Pass

*Notes:"YYYYY" - can be blank or any alphanumeric or decimal point for commercial purposes.

Compiled by: Charlie Review by: Lavier

Approved by:

Issued Date: Jun.20,20

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

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



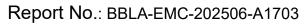






Table of Contents

1 General information	
1.1 General information	,
1.1 General information	
1.2 General description of EUT	
2 Laboratory and accreditations	
3 RF Exposure Compliance Requirement	
3.1 Standard Requirement	 6
3.2 Limits	
3.2 LIIIIIIS	
3.3 Result	





Page 3 of 7

Revise Record

Version No.	Date	Description
01	Jun.20,2025	Original

Tel: +86-755-23059481



1 General information

1.1 General information

Applicant	Shenzhen LiteTrace TechnologiesCo., Ltd				
Address	305 Suite C, 3151 Shahe West Street Jianxing Technology Plaza, Nanshan Shenzhen, China				
Manufacturer	Shenzhen LiteTrace TechnologiesCo., Ltd				
Address	305 Suite C, 3151 Shahe West Street Jianxing Technology Plaza, Nanshan Shenzhen, China				
Factory	Shenzhen LiteTrace TechnologiesCo., Ltd				
Address	305 Suite C, 3151 Shahe West Street Jianxing Technology Plaza, Nanshan Shenzhen, China				

1.2 General description of EUT

the applicant and/or manufacturer.

Product Name	Wall Switch
Model no.	WP1018.A0
Series model	WP1018YYYYY
Differences of Series model	The present report Family Certification for the above mentioned HVINs/Models based on them being identical in enclosure/form factor, internal circuitry/PCB components, hardware/software and the only difference is in the marketing model names
Power supply or adapter information	DC3V
Hardware Version	1.0
Software Version	1.0
Engineer sample no	BBLA-EMC-202506-A17
Note: For a more detailed of	description, please refer to Specification or User's Manual supplied by

For BLE

Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK
Rate data	1Mbps; 2Mbps
Channel Spacing	2MHz
Number of Channels	40
Antenna Type	PCB antenna
Antenna Gain	-1.37dBi(Provided by customer)

Blue Asia of Technical Services (Shenzhen) Co., Ltd.



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			
FAX:	+86-755-28682673			



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

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

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

where

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

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

Table B.2—Example Power Thresholds (mW)

	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
(Z	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
enc	1900	3	12	26	44	66	92	122	157	195	236
Frequency	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





Page 7 of 7



3.3 Result

Calculated Result and Limit (WORSE CASE IS AS BELOW)

Mode	Frequency (MHz)	Max Output power(dBm)	Max Output power(mW)	Ant gain (dBi)	Evaluation ERP(dBm)	Evaluation ERP(mW)	Limit of Pth(mW)	Result
BLE 2M	2402	0.485	1.12	-1.37	-3.035	0.50	2.79	Pass

ERP=Max Output power+Ant gain-2.15

Comply with RF exposure exemption limit.

----END OF REPORT----

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