Test Report Number:	**LCZE25080018**	***Total Page(s):***2
Applicant Name:	ARTCILUX LIGHTING (HK) CO., LIMITED	
Applicant Address:	RM 705, 7/F, FA YUAN COMMERCIAL BUILDING, NOS. 75-77, FA YUEN STREET, KOWLOON, HK.	
Product Name:	Wireless human body sensing remote control switch	
Model / Type Reference:	2S-S1316SE	
FCC ID:	2BRRC-S1316SE	
Date of Issue:	2025-08-11	
Testing Laboratory:	LCTECH Guangdong Testing Services Co., Ltd. 2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China	
Test Specification:	KDB 447498 D04 Interim General RF Exposure Guidance v01	
Test Result:	Passed	

Compiled by:			**Reviewed by:**		
2025-08-11	Rex He	Rex He	2025-08-11	Tension Li	Tension Li
Date	*Name*	*Signature*	*Date*	*Name*	*Signature*

Remark:

N/A

RF Exposure evaluation

According to 447498 D04 Interim General RF Exposure Guidance v01

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

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

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).
The 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

eirp = pt x gt = (EXd) $_2$ /30

where: pt = transmitter output power in watts,

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

E = electric field strength in V/m, --- 10 $^{((\text{dBuV/m})/20)}$ /10 ^{6}

d = measurement distance in meters (m)---3m Sopt = (EXd) $_2$ /30 x gt

Frequency(MHz)	Field Strength (dBuv/m)	eirp(mW)	limit (mW)	min. distance (cm)
2420	79.77	0.028	3	0.50

Then SAR evaluation is not required