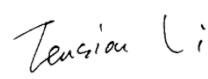


Test Report Number:	LCZE25040049	Total Page(s):2
Applicant Name:	Advanced Purification Engineering Corporation (APEC)	
Applicant Address:	1550 Valley Vista Dr, Suite 250, Diamond Bar, CA 91765	
Product Name:	Wi-Fi Water Leak Detector	
Model / Type Reference:	SMTD-001	
FCC ID:	2BOU3-SMTD-001	
Date of Issue:	2025-04-18	
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 D01 General RF Exposure Guidance v06	
Test Result:	Passed	
Compiled by:	Reviewed by:	
2025-04-18 Rex He 	2025-04-18 Tension Li 	
<i>Date Name Signature</i>	<i>Date Name Signature</i>	
Remark:		
N/A		
The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of the examination of the product sample submitted by the applicant. A general statement concerning the quality of the products from the series manufacture cannot be derived therefore.		

RF Exposure Evaluation

Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density(mW/cm ²)	Averaging time (minutes)
(A)Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B)Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz

Friis transmission for mula: **$Pd = (Pout * G) / (4 * \pi * r^2)$**

Where

Pd =power density in mW/cm²,**Pout**= output power to antenna in mW;

G = gain of antenna in linear scale,**Pi**=3.1416;

R = distance between observation point and center of the radiator in cm

Pdid the limit of MPE,1mW/cm².If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distancer where the MPE limitisreached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

Test Result of RF Exposure Evaluation

802.11b

Channel	Outputpower toantenna(dBm)	Outputpower toantenna(mW)	PowerDensity atR=20cm (mW/cm2)	Limit (mW/cm2)	Result
2412MHz	10.727	11.822	0.00882	1.0	PASS

Remark: antenna gain=3.75dBi

The max power density is less than MPE exempt limit, so it is compliance.