



RF TEST REPORT

Report No.: SHATBL2606040W02

Applicant : Shenzhenshizhuohuichengkeji Co, Ltd.

Product Name : LED Ambient lighting

Brand Name : AOC

Model Name : ALP2302

Series Model : ADL3601,ALP3603,ALP3605,ALP3606,ALP2301,
ALP0601,ALP0602,ALP0603,ALP0605,ALP0606,
ALP0607,ALP0608,ALP0609,ALP0610

FCC ID : 2BWN2-ALP2302

Test Standard : 47 CFR Part 2.1093

Date of Sample Arrival : Jun.28, 2026

Date of Test : Jul.28, 2026~Jul.31, 2026

Issue Date : Jul.31, 2026

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	Jul.31, 2026	SHATBL2606040W02	ALL	Initial Release

Declaration Of Report

1. The device has been tested by ATBL, and the test results show that the equipment under test (EUT) is in compliance with the requirements of 47 CFR Part 2.1093. And it is applicable only to the tested sample identified in the report.
2. This report shall not be reproduced except in full, without the written approval of ATBL, this document only be altered or revised by ATBL, personal only, and shall be noted in the revision of the document.
3. The general information of EUT in this report is provided by the customer or manufacture, ATBL is only responsible for the test data but not for the information provided by the customer or manufacture.
4. The results in this report is only apply to the sample as tested under conditions. The customer or manufacturer is responsible for ensuring that the additional production units of this model have the same electrical and mechanical components.
5. In this report, '☐' indicates that EUT does not support content after '☐', and '☑' indicates that it supports content after '☑'

1. General Description

1.1. Applicant

Name : Shenzhenshizhuohuichengkeji Co, Ltd.

Address : Room T302, Building T2. Ljincheng Centet Yousong Comimurnity Longhua Steet, Longhua Distict, Shenzhen

1.2. Manufacturer

Name : TPV Audio and Visual Technology (Shenzhen) Co.,Ltd

Address : Room 4201, Tower A, Shenzhen Bay Innovation and Technology Centre, Building 2, No. 3156 Keyuan South Road, Gaoxinyu Community, Yuehai Subdistrict, Nanshan District, Shenzhen

1.3. Factory

Name : Zhongshan Chaoqili Optoelectronics Technology Co., Ltd

Address : Unit A, 4th Floor, Building 5, Lanju Industrial Park, No. 22 Gongye Avenue Middle, Shengfeng Community, Xiaolan Town, Zhongshan City

1.4.General Information of EUT

General Information	
Product Name	LED Ambient lighting
Model Name	ALP2302
Series model	ADL3601,ALP3603,ALP3605,ALP3606,ALP2301,ALP0601,ALP0602,ALP0603,ALP0605,ALP0606,ALP0607,ALP0608,ALP0609,ALP0610
Model Difference	Only the model name and color differ,everything else is the same.
Operation Frequency	2402MHz - 2480MHz
Modulation Type	GFSK
Power supply	N/A
Battery	N/A
Hardware Version	V1.0
Software Version	V1.5.1
Connecting I/O Port(s)	Refer to the remark below.

Remark:

The above information of EUT was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.5.Laboratory Information

Company Name	:	Shanghai ATBL Technology Co., Ltd.
Address	:	5-6/F., Unit 1, No 8,Free Trade one LifeScience No.160,Basheng Road,Pudong New District,Shanghai City,China
Telephone	:	+86(0)21-51298625
FCC-Registration Number:	:	485917
Designation Number:	:	CN1306
A2LA-Lab Cert. No.:	:	6184.01
ISED Designation Number:	:	27371

1.6.Description of Available Antennas

Antenna Type	Antenna	Frequency Band MHz	Antenna Gain dBi
PCB Antenna	Antenna 0	2400~2500	0.43

2. FCC 47CFR §2.1093 Requirement

2.1.Test Standards

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1093 RF exposure requirement KDB447498 v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

2.2.Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 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 Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.²² The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.²³ "

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot [\sqrt{f} \text{ (GHz)}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$$

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

2.3.MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

2.4. Tune up power

Band	Frequency (MHz)	Maximum Conducted Power (dBm)	Maximum Target power with tune up (dBm)	Antenna Port
BLE	2402MHz	-4.39	0±1	Antenna 0

Note:

1. The target power has included the maximum transmission power and tolerance values.
- 2.The above assessment is based on the maximum output power.

2.5.Test Result

Mode	f (GHz)	Antenna Distance (mm)	Max.RF output power (including tune-up tolerance)		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
BLE	2.5	5	-3.39	0.46	0.14 <3	Yes

Note:

1. If nothing else, the report will only record the worst power.
2. The Maximum power is less than the limit, complies with the exemption requirements.

*****END OF THE REPORT*****