



RADIO TEST REPORT

Report No: STS2111161H01

Issued for

Aurabeat Technology Limited

Flat H,11/F,Golden Bear Industrial Centre, 66-82 Chai Wan Kok Street,Tsuen Wan, N.T., Hong Kong

Product Name:	AG+ Amp Silver Ion Antiviral Air Purifier
Brand Name:	N/A
Model Name:	ASP-X1
Series Model:	AM3WH, AT-M03W, ALM03W, LAM-A3, ALM-A3, Y-ASP-X1, Y-AM3WH, Y-AT-M03W, Y-ALM03W, Y-LAM-A3, Y-ALM-A3
FCC ID:	2AXV6ASP-X1
Test Standard:	FCC 47CFR §2.1091

Any reproduction of this document must be done in full. No single part of this document may be reproduced without permission from STS, all test data presented in this report is only applicable to presented test sample.



Test Report Certification

Applicant's Name:	Aurabeat	Techno	logy l	∟imited

Address Flat H,11/F,Golden Bear Industrial Centre, 66-82 Chai Wan Kok

Street, Tsuen Wan, N.T., Hong Kong

Manufacturer's Name: Aurabeat Technology Limited

Address Flat H,11/F,Golden Bear Industrial Centre, 66-82 Chai Wan Kok

Street, Tsuen Wan, N.T., Hong Kong

Product Description

Product Name..... : AG+ Amp Silver Ion Antiviral Air Purifier

Brand Name: N/A

Model Name: ASP-X1

Series Model...... AM3WH, AT-M03W, ALM03W, LAM-A3, ALM-A3, Y-ASP-X1, Y-AM3WH, Y-AT-M03W, Y-ALM03W, Y-LAM-A3, Y-ALM-A3

Standards.....: FCC 47CFR §2.1091

This report shall not be reproduced except in full, without the written approval of STS, this document only be altered or revised by STS, personal only, and shall be noted in the revision of the document.

Date of Test

Date of receipt of test item 25 Nov. 2021

Date of Issue...... 12 Apr. 2022

Test Result..... Pass

Testing Engineer :

(Chris Chen)

Technical Manager

eun She

(Sean she)

Authorized Signatory:

(Vita Li)







TABLE OF CONTENTS

1	. GENERAL INFORMATION	5
	1.1 GENERAL DESCRIPTION OF THE EUT	5
	1.2 TEST FACTORY	5
2	. FCC 47CFR §2.1091 REQUIREMENT	6
	2.1 TEST STANDARDS	6
	2.2 LIMIT	6
	2.3 EUT OPERATION CONDITION	6
	2.4 CLASSIFICATION	6
	2.5 TEST RESULT	7





Page 4 of 7 Report No.: STS2111161H01

Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	08 Dec. 2021	STS2111161H01	ALL	Initial Issue





1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	AG+ Amp Silve	AG+ Amp Silver Ion Antiviral Air Purifier			
Brand Name	N/A	N/A			
Model Name	ASP-X1	ASP-X1			
Series Model	· ·	AM3WH, AT-M03W, ALM03W, LAM-A3, ALM-A3, Y-ASP-X1, Y-AM3WH, Y-AT-M03W, Y-ALM03W, Y-LAM-A3, Y-ALM-A3			
Model Difference	The difference	The difference only in the model name.			
Product Description	The EUT is AG Operation Frequency: Modulation Type: Antenna gain: Antenna Designation:	Frequency: Modulation Type: 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 3dBi Antenna PCB			
Rating	Input: AC 120V~ 60Hz, 175W				
Hardware Version	V3.1.4	V3.1.4			
Software Version	V1.0.0				

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,

Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)
Limits for Occupationa	I / controlled Exposures		
300 - 1500	/	-	F/300
1500 – 100000		-	5.0
Limits for General popul	ulation / Uncontrolled Exp	oosure	
300 - 1500			F/1500
1500 – 100000			1.0
Limits for Occupationa 300 - 1500 1500 - 100000 Limits for General popul 300 - 1500	I / controlled Exposures	 posure 	F/300 5.0 F/1500

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $Pd = (Pout * G) / (4*pi*r^2)$

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 the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.



2.5 TEST RESULT

Turn up

Mode	Detector	Turn up Power
802.11b	AV	13±1dBm

ANT Gain (G)

2402-2483.5MHz: 3dBi (gain of antenna in linear scale=1.995)

Protocol	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain(gain of antenna in linear scale)	Power Density (mW/cm²)	Limit (mW/c m²)	Ratio	Result
802.11b	14	25.12	1.995	0.01	1	0.01	Pass

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