



RF MPE REPORT

Report No.: 20231217G17427X-W4

Product Name: UAM052

Model No.: UAM052

FCC ID: 2A68EJX-UAM052

Applicant: Shenzhen Uascent Technology Co.,Ltd

7th Floor, Building A2, Chuangzhiyuncheng, Liuxian Avenue, Xili Address:

Community, Xili Street, Nanshan District, Shenzhen

Dates of Testing: 12/14/2023 - 01/04/2024

Issued by: CCIC Southern Testing Co., Ltd.

Electronic Testing Building, No. 43 Shahe Road, Xili Street,

Lab Location:

Nanshan District, Shenzhen, Guangdong, China.

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Test Report

Product.....: UAM057

Brand Name....: Uascent

Trade Name: Uascent

Applicant.....: Shenzhen Uascent Technology Co.,Ltd

Avenue, Xili Community, Xili Street, Nanshan District,

Shenzhen

Manufacturer...... ShengXianZhiKongCo.,Ltd

Manufacturer Address.........: Room 804, one of No.9 Yucheng Road, Chang'an Town,

Dongguan City, Guangdong Province

Test Standards.....: 47 CFR Part 2.1091

Test Result.....: Pass

Chuiwang Zhang, Test Engineer

Reviewed by...... 2024.01.04

Chris You, Senior Engineer

Approved by.....: 2024.01.04

Yang Fan, Manager

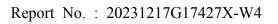




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Change History					
Issue	Date	Reason for change			
1.0 2024.01.04		First edition			



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	UAM052
EUT supports Radios application	2.4G WIFI/BLE
Fraguency Panga(Ty)	BLE: 2.402GHz ~ 2.480GHz
Frequency Range(Tx)	2.4G WIFI: 2.412GHz ~ 2.462GHz
	BLE: 1Mbps
Bandwidth	802.11b/g/n-HT20/ax-HE20: 20MHz
	802.11n-HT40/ax-HE40: 40MHz
Madulation Trms	BLE: GFSK
Modulation Type	2.4G WIFI: DSSS (802.11b), OFDM (802.11g/n/ax)
Antonno goin	BLE: -1.3dBi
Antenna gain	2.4G WIFI: -1.3dBi
Antenna Type	PCB Antenna

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.



1.2. EUT Description

EUT has been tested according to the following standards.

No.	o. Identity Document Title			
1	47 CFR Part 1	Practice and Procedure		
	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General		
2	47 CFR Part 2	Rules and Regulations		
3	KDB 447498 D01 General	RF Exposure Procedures and Equipment Authorization		
	RF Exposure Guidance v06	Policies for Mobile and Portable Devices		
4	OET Bulletin 65	Evaluating Compliance with FCC Guidelines for Human		
	Edition 97-01	Exposure to Radiofrequency Electromagnetic Fields		

1.3. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until Jun. 30th, 2025.

ISED Registration: 11185A

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Jun. 30th, 2025.

CAB number: CN0064

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

1.4. Laboratory Location

Company Name:	CCIC Southern Testing Co., Ltd.					
Address:	Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan					
Address.	District, Shenzhen, Guangdong, China					



2. **Technical Requirements Specification in CFR Title 47 Part 2.1091**

2.1. **Exposure Limits**

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2)	Averaging Time (minutes)		
	(i) Limits for	Occupational/Control	led Exposure			
0.3-3.0	614	1.63	*(100)	< 6		
3.0-30	1824/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		
(ii) 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		
Note: f = frequency in MHz. * = Plane-wave equivalent power density.						

Predication of MPE limit at a given distance 2.2.

Refer to formulas on page 19 of OET Bulletin 65, Edition 97-01.

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna (appropriate units, e.g., cm)



2.3. Evaluation Results

Worst-Case mode Conducted Output Power Results for BLE

Band	Mode	Frequency	Maximum Output	Max Tune up	Max Tune up	
Danu		(MHz)	Power (dBm)	power (dBm)	power (mW)	
BLE	GFSK	2480	5.855	5±1	3.98	

Worst-Case mode Conducted Output Power Results for 2.4G WLAN

Band	Mode	Frequency (MHz)	Maximum Output Power (dBm)	Max Tune up power (dBm)	Max Tune up power (mW)
2.4G WIFI	WIFI 802.11b 2442		16.92	16±1	50.12

Calculation results: Worst-Case mode

Band	Max Tune up power (dBm)	Antenna Gain (dBi)	Distance (cm)	Result (mW/cm2)	Power Density (mW/cm2)	Ratio
BLE	6	-1.3	20	0.0006	1.00	0.0006
2.4G WIFI	17	-1.3	20	0.0074	1.00	0.0074

2.4. Conclusion

According to the KDB 447498 D01 General RF Exposure Guidance v06 section 7.2 determine the device is exclusion from SAR test.

** END OF REPORT **