

Product Name: Jupiter AI Kit	Report No: FCC022023-0670372RF3
Product Model: SS23-QE-VA	Security Classification: Open
Version: V1.0	Total Page: 6

TIRT Testing Report



Prepared By:	Checked By:	Approved By:	A circular blue stamp with the text "TIRT Technology Service Co., Ltd." around the perimeter and "TIRT Shenzhen" in the center.
Stone Tang	Randy Lv	Daniel Chen	
<i>Stone Tang</i>	<i>Randy Lv</i>	<i>Daniel chen</i>	

FCC RF EXPOSURE REPORT

FCC ID: 2A36J-SS23-QE-VA

Equipment : Jupiter AI Kit
Brand Name : N/A
Test Model : SS23-QE-VA
Series Model : N/A
Applicant : Yi Tunnel (Beijing)Technology Co., LtdE
Address : Room1511, Block B, SOHO Shangdu North Tower, Dongdaqiao Road
8, Chaoyang Disstrict, Beijing, China
Manufacturer : Yi Tunnel (Beijing)Technology Co., LtdE
Address : Room1511, Block B, SOHO Shangdu North Tower, Dongdaqiao Road
8, Chaoyang Disstrict, Beijing, China
Date of sample receipt : 2023-02-12
Date of Test : 2023-02-13~2023-03-22
Report Version : V1.0
Issued Date : Mar. 13, 2023
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091
KDB 447498 D01 General RF Exposure Guidance v06

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.

Lab: Beijing TIRT Technology Service Co.,Ltd Shenzhen

Add: 101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan
District, Shenzhen, China
TEL: +86-0755-27087573

REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
FCC022023-0670372RF3	V1.0	Original Report.	Mar. 13, 2023	Valid

1. TEST FACILITY

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
Address:	101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District, Shenzhen, China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number:	6049.01
FCC Accredited Lab. Designation Number:	CN1309
FCC Test Firm Registration Number:	825524
Telephone:	+86-0755-27087573

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

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

where:

S = power density

P = power input to the antenna

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

R = distance to the center of radiation of the antenna

For WCDMA<E

Antenna Specification:

Ant.	Operating Band	Model Name	Antenna Type	Connector	Gain (dBi)
1	WCDMA B2	N/A	dipole	N/A	2.93
	WCDMA B4	N/A	dipole	N/A	2.93
	WCDMA B5	N/A	dipole	N/A	2.53
	LTE Band 2	N/A	dipole	N/A	2.93
	LTE Band 4	N/A	dipole	N/A	2.93
	LTE Band 5	N/A	dipole	N/A	2.53
	LTE Band 12	N/A	dipole	N/A	2.53
	LTE Band 13	N/A	dipole	N/A	2.53
	LTE Band 17	N/A	dipole	N/A	2.53
	LTE Band 26 (814MHz-824MHz)	N/A	dipole	N/A	2.53
	LTE Band 26 (824MHz-849MHz)	N/A	dipole	N/A	2.53
	LTE Band 41	N/A	dipole	N/A	2.53

Note:

- 1) The antenna gain is provided by the manufacturer.
- 2) The antenna is for testing purposes only.

For 2.4GHz:

Antenna Specification:

Ant.	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	dipole	N/A	3.78

3. TEST RESULTS

Operating Band	Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Tune up tolerance (dBm)	Max tune up conducted power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.4GWIFI	3.78	2.388	15.91	16±1	17	50.119	0.018533	1	Complies
WCDMA B2	2.93	1.963	23.30	23±1	24	251.189	0.098164	1	Complies
WCDMA B4	2.93	1.963	22.91	23±1	24	251.189	0.098164	1	Complies
WCDMA B5	2.53	1.791	23.90	24±1	25	316.228	0.112707	0.5509	Complies
LTE Band 2	2.93	1.963	23.13	23±1	24	251.189	0.098164	1	Complies
LTE Band 4	2.93	1.963	23.16	23±1	24	251.189	0.098164	1	Complies
LTE Band 5	2.53	1.791	24.00	24±1	25	316.228	0.112707	0.5627	Complies
LTE Band 12	2.53	1.791	23.57	23±1	24	251.189	0.089526	0.4740	Complies
LTE Band 13	2.53	1.791	23.68	24±1	25	316.228	0.112707	0.5213	Complies
LTE Band 17	2.53	1.791	23.52	23±1	24	251.189	0.089526	0.4733	Complies
LTE Band 26 (814MHz-824MHz)	2.53	1.791	23.89	24±1	25	316.228	0.112707	0.5490	Complies
LTE Band 26 (824MHz-849MHz)	2.53	1.791	24.10	24±1	25	316.228	0.112707	0.5660	Complies
LTE Band 41	2.53	1.791	23.14	23±1	24	251.189	0.089526	1	Complies

Note: The calculated distance is 20 cm.

Maximum Simultaneous transmission MPE Ratios for 2.4GWIFI + WCDMA:

:

Max MPE ratio WIFI	Max MPE Ratio WCDMA	ΣMPE ratios	Limit	Result
0.018533	0.204587	0.22312	1	Pass
MPE= Limit of Power Density (S) (mW/cm ²) / Limit of Power Density (S) (mW/cm ²) ratios				

Maximum Simultaneous transmission MPE Ratios for 2.4GWIFI + LTE:

Max MPE ratio WIFI	Max MPE Ratio LTE	ΣMPE ratios	Limit	Result
0.018533	0.188873	0.207406	1	Pass
MPE= Limit of Power Density (S) (mW/cm ²) / Limit of Power Density (S) (mW/cm ²) ratios				

End of Test Report