

TEST REPORT

Report No.: SHATBL2601032W11

Applicant : Shanghai AllyNav Technology Co.,Ltd.

Product Name : GNSS RECEIVER

Brand Name : N/A

Model Name : R62GT

FCC ID : 2AT4H-R62GT

Test Standard : FCC 47 CFR Part 2.1091

Date of Test : 2026.03.09~2026.08.27

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(Emily)

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(Guozheng Li)

Authorized Signatory :

Terry Yang

(Terry Yang)



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REVISION HISTORY

Rev.	Issue Date	Revisions	Revised by
00	2026.09.01	Initial Release	Guozheng Li

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 2.1091. 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.

1. GENERAL DESCRIPTION

1.1. Applicant

Name : Shanghai AllyNav Technology Co.,Ltd.

Address : Room 201, Buliding 1, No 215, Gaoguang RD, Qingpu District, Shanghai, China

1.2. Manufacturer

Name : Shanghai AllyNav Technology Co.,Ltd.

Address : Room 201, Buliding 1, No 215, Gaoguang RD, Qingpu District, Shanghai, China

1.3. Factory

Name : Shanghai AllyNav Technology Co.,Ltd.

Address : Room 201, Buliding 1, No 215, Gaoguang RD, Qingpu District, Shanghai, China

1.4. General Information of EUT

General Information	
Equipment Name	GNSS RECEIVER
Brand Name	N/A
Model Name	R62GT
Series Model	N/A
Model Difference	N/A
Sample No.	202512010001002
Power Input	DC 9-36V
Adapter	N/A
Battery	N/A
Hardware version	N/A
Software version	N/A
Operating Temperature Range	-20℃ ~ +70℃
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. Modification of EUT

No modifications are made to the EUT during all test items.

1.6. Laboratory Information

Company Name	:	Shanghai ATBL Technology Co., Ltd.
Address	:	Building 8, No.160 Basheng Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai
Telephone	:	+86(0)21-51298625
FCC-Registration Number	:	485917
Designation Number	:	CN1306
A2LA Number	:	6184.01
CNAS Number	:	CNAS L14531
ISED Designation Number	:	27371
CAB identifier	:	CN0116

2. FCC 47CFR §2.1091 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 §2.1091 RF exposure is calculated.

FCC KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

2.2. Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
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

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

*=Plane-wave equivalent power density

2.3. MPE Calculation Method

Predication of MPE limit at a given distance

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

$$S=PG/4\pi R^2$$

Where: S=power density

P=power input to 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

2.4. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

Transmitter Circuit	Operating Band	Peak Gain (dBi)	Antenna Type
Chain 0	BT+2.4G WIFI	0.3	Rubber Antenna
Chain 1	WCDMA Band II	1.3	PCB Antenna
	WCDMA Band IV	3.2	
	WCDMA Band V	2.6	
	LTE Band 2	1.3	
	LTE Band 4	3.2	
	LTE Band 5	2.6	
	LTE Band 7	4.0	
	LTE Band 12	2.6	
	LTE Band 13	2.6	
	LTE Band 14	2.6	
	LTE Band 25	1.3	
	LTE Band 26(824 ~ 849)	2.6	
	LTE Band 26 (814 ~ 824)	3.2	
	LTE Band 66	3.2	
Chain 2	UHF(410MHz~470MHz)	3.6	Rod Antenna

2.5. Manufacturing Tolerance

Function	Target (dBm)	Tolerance $\pm$ (dB)
2.4GHz	22.00	1.00
BT	6.00	1.00
BLE	5.00	1.00
WCDMA Band II	26.00	1.00
WCDMA Band IV	24.00	1.00
WCDMA Band V	22.00	1.00
LTE Band 2	26.00	1.00
LTE Band 4	25.00	1.00
LTE Band 5	24.00	1.00
LTE Band 7	26.00	1.00
LTE Band 12	24.00	1.00
LTE Band 13	24.00	1.00
LTE Band 14	25.00	1.00
LTE Band 25	25.00	1.00
LTE Band 26(824 ~ 849)	23.00	1.00
LTE Band 26 (814 ~ 824)	23.00	1.00
LTE Band 66	25.00	1.00
UHF	29.00	1.00

Note: The target power has included the maximum transmission power and tolerance values.

2.6. Test Result

As declared by the Applicant, the EUT is a wireless device used in a Mobile application, at least 30 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r = 30\text{cm}$, as well as the gain of the used antenna is refer to section 4, the RF power density can be obtained.

Modulation Type	Output power (Target)		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
2.4GHz	23.00	199.53	0.3	1.0715	0.0189	1.0000
BT	7.00	5.01	0.3	1.0715	0.0005	1.0000
BLE	6.00	3.98	0.3	1.0715	0.0004	1.0000
WCDMA Band II	27.00	501.19	1.3	1.3490	0.0598	1.0000
WCDMA Band IV	25.00	316.23	3.2	2.0893	0.0584	1.0000
WCDMA Band V	23.00	199.53	2.6	1.8197	0.0321	0.5577
LTE Band 2	27.00	501.19	1.3	1.3490	0.0598	1.0000
LTE Band 4	26.00	398.11	3.2	2.0893	0.0735	1.0000
LTE Band 5	25.00	316.23	2.6	1.8197	0.0509	0.5577
LTE Band 7	27.00	501.19	4.0	2.5119	0.1113	1.0000
LTE Band 12	25.00	316.23	2.6	1.8197	0.0509	0.4717
LTE Band 13	25.00	316.23	2.6	1.8197	0.0509	0.5213
LTE Band 14	26.00	398.11	2.6	1.8197	0.0641	0.5287
LTE Band 25	26.00	398.11	1.3	1.3490	0.0475	1.0000
LTE Band 26(824 ~ 849)	24.00	251.19	2.6	1.8197	0.0404	0.5577
LTE Band 26(814 ~ 824)	24.00	251.19	3.2	2.0893	0.0464	0.5460
LTE Band 66	26.00	398.11	3.2	2.0893	0.0736	1.0000
UHF	30.00	1000.00	3.6	2.2909	0.2026	0.2933

WIFI 2.4G(0.0189)+Bluetooth(0.0005)+LTE(0.1113)+UHF(0.2026)=0.3333 mW/cm² < 1.0000 mW/cm²

Note:

1. Unless otherwise specified, only the worst-case power is recorded.
2. The maximum MPE (0.3333 mW/cm²) is less than the limit (1.0000 mW/cm²), complies with the exemption requirements. Simultaneous transmission (WiFi2.4G+Bluetooth+LTE+UHF) has been considered.
3. Output power (AVG) including turn-up tolerance;
4. The calculated distance is 30 cm.

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