

TEST REPORT

Application No.: KSCR2506001373AT
FCC ID: 2APNR-GT117U2
Applicant: Gosuncn Technology Group Co., Ltd.
Address of Applicant: 6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.
Manufacturer: Gosuncn Technology Group Co., Ltd.
Address of Manufacturer: 6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.
Equipment Under Test (EUT):
EUT Name: Tracker
Model No.: GT117U2
Standard(s) : 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
47 CFR Part 90
Date of Receipt: 2025-06-25
Date of Test: 2025-07-15to 2025-07-24
Date of Issue: 2025-07-24

Test Result:
Pass*

* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Revision Record			
Version	Description	Date	Remark
00	Original	2025-07-24	/

Authorized for issue by:			
Tested By			
		Eric_Liu/Project Engineer	
Approved By			
		Terry Hou /Reviewer	

2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Field strength of spurious radiation	47 CFR Part 2; 47 CFR Part 22 subpart H; 47 CFR Part 24 subpart E; 47 CFR Part 27 subpart C 47 CFR Part 90 subpart S	ANSI C63.26, KDB 971168 D01 v03	§ 2.1051, §22.917, §24.238, §27.53(f), §27.53(g), §27.53(h), § 90.691	Pass

Note: Based on the original module: PCUL11-LD1, FCC ID authentication has been performed, and the original report is: BL-SZ23B0626-501. Verified the worse power and Field strength of spurious radiation, meeting the requirements, and only displayed Field strength of spurious radiation data in the report.

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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 12V/DC 24V		
Test Voltage:	DC 12V		
Operation Frequency:	Band	Tx (MHz)	Rx (MHz)
	Band 2	1850-1910	1930-1990
	Band 4	1710-1755	2110-2155
	Band 5	824-849	869-894
	Band 12	699-716	729-746
	Band 13	777-787	746-756
	Band 25	1850-1915	1930-1995
	Band 26	814-849	859-894
	Band 66	1710-1780	2110-2200
Modulation Type:	QPSK, 16QAM		
Antenna Type:	PCB Antenna		
Antenna Gain:	Band 2: 0.78dBi (Provided by the manufacturer) Band 4: 1.33dBi (Provided by the manufacturer) Band 5: -0.33dBi (Provided by the manufacturer) Band 12: 1.3dBi (Provided by the manufacturer) Band 13: -0.04dBi (Provided by the manufacturer) Band 25: 0.78dBi (Provided by the manufacturer) Band 26: -0.33dBi (Provided by the manufacturer) Band 66: 1.33dBi (Provided by the manufacturer)		

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%
Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/06/2024	08/05/2025
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	02/18/2025	02/17/2026
3	Signal Generator	Agilent	E8257C	KS301066	08/06/2024	08/05/2025
4	Loop Antenna (9KHz-30MHz)	COM-POWER	AL-130R	KUS1806E001	03/01/2025	02/28/2027
5	Bilog Antenna (30MHz-1GHz)	TESEQ	CBL 6112D	KUS1806E005	06/28/2025	06/27/2027
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	03/23/2024	03/22/2026
7	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/07/2024	01/06/2026
8	Amplifier(30MHz~1GHz)	TST	LNA009100G30	KSEM061	01/15/2025	01/14/2026
9	Amplifier(400MHz~8GHz)	TST	LNA004080G30	KSEM062	01/15/2025	01/14/2026
10	Amplifier(1GHz~18GHz)	TST	LNA010180G45	KSEM039	08/02/2024	08/01/2025
11	Amplifier(18~40GHz)	TST	LNA180400G40	KSEM038	08/12/2024	08/11/2025
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	08/23/2024	08/22/2025
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	02/26/2025	02/25/2026
14	Software	Faratronic	EZ EMC-v 3A1	/	NCR	NCR
15	Software	ESE	E3_V 6.111221a	/	NCR	NCR

6 Radio Spectrum Matter Test Results

6.1 Field strength of spurious radiation

Test Requirement §2.1051, §22.917, §24.238, §27.53(f), §27.53(g), §27.53(h), §90.691

Test Method: ANSI C63.26, KDB 971168 D01 v03

Measurement Distance: 3M

Limit: $\leq -13\text{dBm}$
 $\leq -13\text{dBm}$ (LTE Band13, limit out of band 1559-1610MHz)
 $\leq -40\text{dBm}$ (LTE Band13, limit in the band 1559-1610MHz)

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C

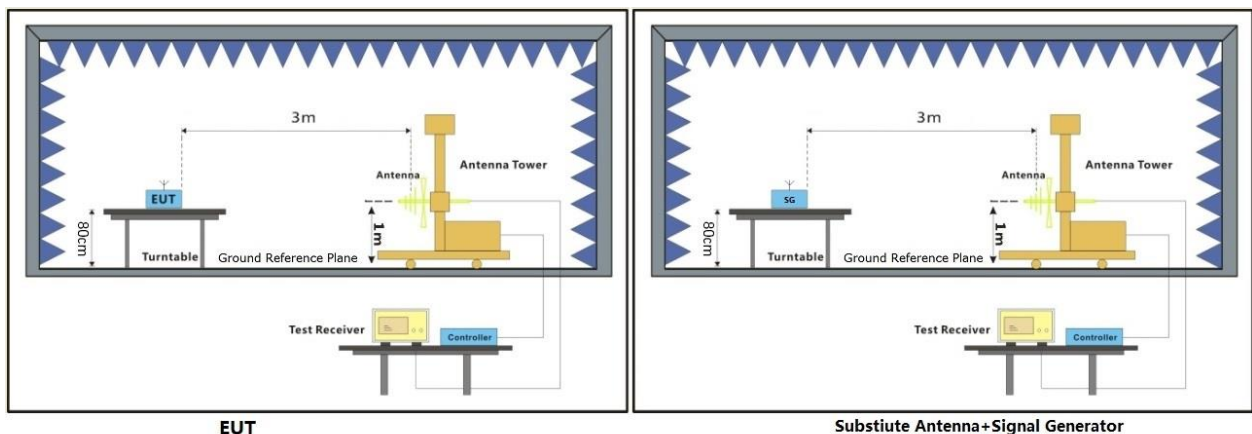
Humidity: 45 % RH

Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting mode

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2506001373AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2506001373AT

9 Appendix

LTE BAND 2-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3720.000	-59.74	-13	-46.74	Horizontal
5580.000	-57.26	-13	-44.26	Horizontal
7440.000	-57.09	-13	-44.09	Horizontal
3720.000	-60.40	-13	-47.40	Vertical
5580.000	-60.52	-13	-47.52	Vertical
7440.000	-53.84	-13	-40.84	Vertical

LTE BAND 2-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3760.000	-53.30	-13	-40.30	Horizontal
5640.000	-61.45	-13	-48.45	Horizontal
7520.000	-56.08	-13	-43.08	Horizontal
3760.000	-57.63	-13	-44.63	Vertical
5640.000	-59.04	-13	-46.04	Vertical
7520.000	-57.92	-13	-44.92	Vertical

LTE BAND 2-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3800.000	-60.17	-13	-47.17	Horizontal
5700.000	-62.27	-13	-49.27	Horizontal
7600.000	-53.53	-13	-40.53	Horizontal
3800.000	-60.61	-13	-47.61	Vertical
5700.000	-60.42	-13	-47.42	Vertical
7600.000	-53.29	-13	-40.29	Vertical

LTE BAND 4-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3440.000	-55.38	-13	-42.38	Horizontal
5160.000	-59.13	-13	-46.13	Horizontal
6880.000	-56.70	-13	-43.70	Horizontal
3440.000	-53.70	-13	-40.70	Vertical
5160.000	-56.31	-13	-43.31	Vertical
6880.000	-56.41	-13	-43.41	Vertical

LTE BAND 4-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3465.000	-59.75	-13	-46.75	Horizontal
5197.500	-57.60	-13	-44.60	Horizontal
6930.000	-59.03	-13	-46.03	Horizontal
3465.000	-55.67	-13	-42.67	Vertical
5197.500	-59.29	-13	-46.29	Vertical
6930.000	-58.22	-13	-45.22	Vertical

LTE BAND 4-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3490.000	-55.50	-13	-42.50	Horizontal
5235.000	-62.18	-13	-49.18	Horizontal
6980.000	-56.37	-13	-43.37	Horizontal
3490.000	-57.97	-13	-44.97	Vertical
5235.000	-61.34	-13	-48.34	Vertical
6980.000	-56.12	-13	-43.12	Vertical

LTE BAND 5-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1658.000	-52.85	-13	-39.85	Horizontal
2487.000	-60.36	-13	-47.36	Horizontal
3316.000	-53.85	-13	-40.85	Horizontal
1658.000	-55.86	-13	-42.86	Vertical
2487.000	-58.90	-13	-45.90	Vertical
3316.000	-56.81	-13	-43.81	Vertical

LTE BAND 5-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1673.000	-54.17	-13	-41.17	Horizontal
2509.500	-59.86	-13	-46.86	Horizontal
3346.000	-55.75	-13	-42.75	Horizontal
1673.000	-56.61	-13	-43.61	Vertical
2509.500	-58.84	-13	-45.84	Vertical
3346.000	-57.50	-13	-44.50	Vertical

LTE BAND 5-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1688.000	-59.19	-13	-46.19	Horizontal
2532.000	-61.08	-13	-48.08	Horizontal
3376.000	-52.78	-13	-39.78	Horizontal
1688.000	-60.53	-13	-47.53	Vertical
2532.000	-61.24	-13	-48.24	Vertical
3376.000	-53.77	-13	-40.77	Vertical

LTE BAND 12-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1408.000	-55.71	-13	-42.71	Horizontal
2112.000	-55.88	-13	-42.88	Horizontal
2816.000	-54.53	-13	-41.53	Horizontal
1408.000	-58.47	-13	-45.47	Vertical
2112.000	-60.18	-13	-47.18	Vertical
2816.000	-53.02	-13	-40.02	Vertical

LTE BAND 12-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1415.000	-52.59	-13	-39.59	Horizontal
2122.500	-58.16	-13	-45.16	Horizontal
2830.000	-55.34	-13	-42.34	Horizontal
1415.000	-56.55	-13	-43.55	Vertical
2122.500	-60.15	-13	-47.15	Vertical
2830.000	-59.85	-13	-46.85	Vertical

LTE BAND 12-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1422.000	-53.20	-13	-40.20	Horizontal
2133.000	-59.26	-13	-46.26	Horizontal
2844.000	-54.61	-13	-41.61	Horizontal
1422.000	-54.73	-13	-41.73	Vertical
2133.000	-61.56	-13	-48.56	Vertical
2844.000	-52.77	-13	-39.77	Vertical

LTE BAND 13-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1559.000	-56.79	-40	-16.79	Horizontal
2338.500	-56.31	-13	-43.31	Horizontal
3118.000	-53.77	-13	-40.77	Horizontal
1559.000	-51.04	-40	-11.04	Vertical
2338.500	-56.65	-13	-43.65	Vertical
3118.000	-57.48	-13	-44.48	Vertical

LTE BAND 13-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1564.000	-59.70	-40	-19.70	Horizontal
2346.000	-57.55	-13	-44.55	Horizontal
3128.000	-59.62	-13	-46.62	Horizontal
1564.000	-52.39	-40	-12.39	Vertical
2346.000	-60.61	-13	-47.61	Vertical
3128.000	-55.03	-13	-42.03	Vertical

LTE BAND 13-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1569.000	-59.08	-40	-19.08	Horizontal
2353.500	-59.13	-13	-46.13	Horizontal
3138.000	-56.69	-13	-43.69	Horizontal
1569.000	-58.21	-40	-18.21	Vertical
2353.500	-59.43	-13	-46.43	Vertical
3138.000	-53.00	-13	-40.00	Vertical

LTE BAND 25-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3720.000	-58.88	-13	-45.88	Horizontal
5580.000	-57.96	-13	-44.96	Horizontal
7440.000	-54.40	-13	-41.40	Horizontal
3720.000	-54.92	-13	-41.92	Vertical
5580.000	-56.69	-13	-43.69	Vertical
7440.000	-57.38	-13	-44.38	Vertical

LTE BAND 25-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3760.000	-56.41	-13	-43.41	Horizontal
5640.000	-61.01	-13	-48.01	Horizontal
7520.000	-56.05	-13	-43.05	Horizontal
3760.000	-57.86	-13	-44.86	Vertical
5640.000	-62.12	-13	-49.12	Vertical
7520.000	-55.60	-13	-42.60	Vertical

LTE BAND 25-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3810.000	-55.28	-13	-42.28	Horizontal
5715.000	-59.94	-13	-46.94	Horizontal
7620.000	-57.10	-13	-44.10	Horizontal
3810.000	-54.67	-13	-41.67	Vertical
5715.000	-61.44	-13	-48.44	Vertical
7620.000	-54.85	-13	-41.85	Vertical

LTE BAND 26-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1643.000	-52.04	-13	-39.04	Horizontal
2464.500	-59.62	-13	-46.62	Horizontal
3286.000	-55.07	-13	-42.07	Horizontal
1643.000	-60.67	-13	-47.67	Vertical
2464.500	-59.70	-13	-46.70	Vertical
3286.000	-52.97	-13	-39.97	Vertical

LTE BAND 26-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1663.000	-50.56	-13	-37.56	Horizontal
2494.500	-58.81	-13	-45.81	Horizontal
3326.000	-56.86	-13	-43.86	Horizontal
1663.000	-54.32	-13	-41.32	Vertical
2494.500	-60.77	-13	-47.77	Vertical
3326.000	-59.01	-13	-46.01	Vertical

LTE BAND 26-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1683.000	-51.77	-13	-38.77	Horizontal
2524.500	-61.83	-13	-48.83	Horizontal
3366.000	-56.02	-13	-43.02	Horizontal
1683.000	-51.71	-13	-38.71	Vertical
2524.500	-59.75	-13	-46.75	Vertical
3366.000	-57.01	-13	-44.01	Vertical

LTE BAND 66-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3440.000	-56.84	-13	-43.84	Horizontal
5160.000	-56.41	-13	-43.41	Horizontal
6880.000	-57.76	-13	-44.76	Horizontal
3440.000	-60.09	-13	-47.09	Vertical
5160.000	-56.02	-13	-43.02	Vertical
6880.000	-56.07	-13	-43.07	Vertical

LTE BAND 66-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3490.000	-57.33	-13	-44.33	Horizontal
5235.000	-61.03	-13	-48.03	Horizontal
6980.000	-58.66	-13	-45.66	Horizontal
3490.000	-52.40	-13	-39.40	Vertical
5235.000	-60.81	-13	-47.81	Vertical
6980.000	-59.12	-13	-46.12	Vertical

LTE BAND 66-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3540.000	-59.78	-13	-46.78	Horizontal
5310.000	-60.58	-13	-47.58	Horizontal
7080.000	-57.15	-13	-44.15	Horizontal
3540.000	-60.96	-13	-47.96	Vertical
5310.000	-59.70	-13	-46.70	Vertical
7080.000	-52.68	-13	-39.68	Vertical

- End of the Report -