# RF Exposure Report

Report No.: AGC01040250801FH01

| | | |
|---|---|---|
| **FCC ID** | : | 2AF9HTR70 |
| **APPLICATION PURPOSE** | : | Original Equipment |
| **PRODUCT DESIGNATION** | : | Smart Radar Tail Light |
| **BRAND NAME** | : | COOSPO |
| **MODEL NAME** | : | TR70, TR30, TR40, TR50, TR60, TR80, TR90, TR70PRO, TR70PLUS, TR70mini |
| **APPLICANT** | : | Shenzhen CooSpo Tech Co., Ltd |
| **DATE OF ISSUE** | : | Dec. 10, 2025 |
| **STANDARD(S)** | : | FCC Part 2 Subpart J §2.1091 |
| **REPORT VERSION** | : | V1.0 |

Attestation of Global Compliance (Shenzhen) Co., Ltd

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## Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|---|---|---|---|---|
| V1.0 | / | Dec. 10, 2025 | Valid | Initial Release |

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## 1. General Information

| | |
|---|---|
| Applicant | Shenzhen CooSpo Tech Co., Ltd |
| Address | Room 602, 1# building, Lingyun Factory, Liufang Road 2nd, Xingdong Community, Bao'an District, Shenzhen, Guangdong, China |
| Manufacturer | Shenzhen CooSpo Tech Co., Ltd |
| Address | Room 602, 1# building, Lingyun Factory, Liufang Road 2nd, Xingdong Community, Bao'an District, Shenzhen, Guangdong, China |
| Factory | Shenzhen CooSpo Tech Co., Ltd |
| Address | Room 602, 1# building, Lingyun Factory, Liufang Road 2nd, Xingdong Community, Bao'an District, Shenzhen, Guangdong, China |
| Product Designation | Smart Radar Tail Light |
| Brand Name | COOSPO |
| Test Model | TR70 |
| Series Model(s) | TR30, TR40, TR50, TR60, TR80, TR90, TR70PRO, TR70PLUS, TR70mini |
| Difference Description | All the same except for the model name. |
| Date of receipt of test item | Oct. 13, 2025 |
| Date of Test | Oct. 13, 2025 to Dec. 10, 2025 |
| Deviation from Standard | No any deviation from the test method |
| Condition of Test Sample | Normal |
| Test Result | Pass |
| Test Report Form No | AGCER-FCC-RF Exposure-V1 |

Note: The test results of this report relate only to the tested sample identified in this report.

| | | |
|---|---|---|
| Prepared By | Thea Huang<br>Thea Huang<br>(Project Engineer) | Dec. 10, 2025 |
| Reviewed By | Bibo zhang<br>Bibo Zhang<br>(Reviewer) | Dec. 10, 2025 |
| Approved By | Angela Li<br>Angela Li<br>(Authorized Officer) | Dec. 10, 2025 |

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# 2. Product Information

## 2.1 Product Technical Description

| | |
|---|---|
| Frequency Band (Operating) | ☒Bluetooth: 2.402GHz ~ 2.480GHz<br>☒Other: ANT+:2457MHz<br>☒Other: Radar:24.075-24.175 GHz |
| Hardware Version | V1.3 |
| Software Version | V1.0 |
| Modulation Type | BLE ☒GFSK 1Mbps ☒GFSK 2Mbps<br>ANT+: GFSK<br>Radar |
| Maximum Transmitter Power | BLE GFSK 1Mbps: -0.401dBm;<br>BLE GFSK 2Mbps: -0.434dBm; |
| Field Strength of Fundamental | ANT+: 93.77dBμV/m @3m (Peak)<br>Radar: 119.94dBμV/m @3m (Peak) |
| Device Category | ☒Mobile (≥20cm separation) |
| Antenna Diversity | ☐Single antenna<br>☒Multiple antennas<br>☐Tx diversity<br>☐Rx diversity<br>☐Tx/Rx diversity |
| Antenna Designation | PCB Antenna |
| Antenna Gain | BLE & ANT+:2.18dBi<br>Radar:11.92dBi |
| Minimum Assessment Distance | 20cm |
| Evaluation Applied | ☒MPE Evaluation |

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# 3. Test Environment

## 3.1 Address Of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

## 3.2 Test Facility

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

**CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

**A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

**FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) 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 with Registration 975832.

**IC-Registration No.: 24842(CAB identifier: CN0063)**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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### 3.3 Environmental Conditions

| | Normal Conditions |
|---|---|
| Temperature range (℃) | 15 - 35 |
| Relative humidity range | 20 % - 75 % |
| Pressure range (kPa) | 86 - 106 |
| Power supply | DC 3.7V by battery or DC 5V by adapter |

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## 4. Mobile Device Evaluation Method and Limit

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

**Limits For General Population / Uncontrolled Exposure**

| Frequency Range (MHz) | E-field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) ($mW/cm^2$) | Averaging Time $\|E\|^2$, $\|H\|^2$ or S (Minutes) |
|---|---|---|---|---|
| 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:

1. f= Frequency in MHz * Plane-wave Equivalent Power Density
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and 2.1093 on source-based time-averaging requirement for mobile and portable transmitters.

The calculation formula of MPE measurement is as follows:

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

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## 5. Measurement Results

A minimum test separation distance ≥ 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits. The distance must be at least 20 cm and fully supported by the operating and installation configurations of the transmitter and its antenna(s), according to the source-based time-averaged maximum power requirements of § 2.1091(d)(2). In cases where cable losses or other attenuations are applied to determine compliance, the most conservative operating configurations and exposure conditions must be evaluated.

| Test Mode | Test Frequency (MHz) | Antenna Gain (linear) | Max.Output Power (dBm) | Max.Output Power (mW) | Power Density (mW/cm$^2$) | Measurement Limit (mW/cm$^2$) |
|---|---|---|---|---|---|---|
| BLE | 2402 | 1.65 | -0.401 | 0.912 | 0.0003 | 1 |

| **Test Mode** | **Frequency (MHz)** | **Max. Output Power (dBuV/m) @3m** | **Max. Output Power (dBm)** | Max.Output Power (mW) | Power Density (mW/cm$^2$) | Measurement Limit (mW/cm$^2$) |
|---|---|---|---|---|---|---|
| ANT+ | 2457 | 93.77 | -1.46 | 0.714 | 0.0002 | 1 |
| Radar | 24.1208 | 119.94 | 24.71 | 295.801 | 0.9158 | 1 |

Note:
1. Only the worst case recorded.
2. Max Power (dBm) = Field Strength of Fundamental (dBuV/m@3m)-95.23
3. Max Power (mW) = 10^(Max power (dBm)/10)
4. BT and ANT+ share one antenna, and cannot transmit simultaneously.
5. The ANT+ and Radar can transmit simultaneously: 0.0003/1 +0.9158/1=0.9161<1
6. According to the user manual, the minimum separate distance which used for MPE calculate is 20cm

## 6. Measurement Evaluation

The equipment meets MPE measurement evaluation requirements.

Conditions of Issuance of Test Reports

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1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3.The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

**-----End of Report-----**

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