

FCC Test Report

Report No.: AGC04728221201FE10

FCC ID : 2A56CVARC20

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: 2CH RC CAR

BRAND NAME : N/A

MODEL NAME : WT501535, WT501533

APPLICANT: WINTIDE BRAND LIMITED

DATE OF ISSUE : Jan. 06, 2023

STANDARD(S) : FCC Part 15 Subpart § 15.227

REPORT VERSION: V 1.0





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REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | / | Jan. 06, 2023 | Valid | Initial Release |



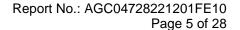
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1. GENERAL INFORMATION

| Applicant | WINTIDE BRAND LIMITED |
|------------------------------|--|
| Address | 4/F, NO.1, Donghuang Building, NO.2 Fengxing Road, Chenghai District, Shantou City, Guangdong China 515800 |
| Manufacturer | WINTIDE BRAND LIMITED |
| Address | FLAT/RM 11-15, BLK B, 10/F, NEW MANDARIN PLAZA, 14 SCIENCE MUSEUM ROAD, TSIMSHATSUI EAST, KL, HONG KONG |
| Factory | WINTIDE BRAND LIMITED |
| Address | FLAT/RM 11-15, BLK B, 10/F, NEW MANDARIN PLAZA, 14 SCIENCE MUSEUM ROAD, TSIMSHATSUI EAST, KL, HONG KONG |
| Product Designation | 2CH RC CAR |
| Brand Name | N/A |
| Test Model | WT501535 |
| Series Model | WT501533 |
| Difference Description | All the series models are the same as the test model except for the model names and the color of appearance. |
| Date of receipt of test item | Jan. 05, 2023 |
| Date of test | Jan. 05, 2023 to Jan. 06, 2023 |
| Deviation from Standard | No any deviation from the test method |
| Test Result | Pass |
| Test Report Form No | AGCTR-ER-FCC-SRDV1.0 |
| | |

| Prepared By | Alan Duan | |
|-------------|-----------------------------------|---------------|
| | Alan Duan (Project Engineer) | Jan. 06, 2023 |
| Reviewed By | Calin Lin | |
| | Calvin Liu (Reviewer) | Jan. 06, 2023 |
| Approved By | Max Zhang | |
| | Max Zhang (Authorized Officer) | Jan. 06, 2023 |



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2. PRODUCT INFORMATION

2.1 PRODUCT TECHNICAL DESCRIPTION

| Operation Frequency | 27.05MHz |
|-------------------------------|------------------|
| Hardware Version | V1.0 |
| Software Version | V1.0 |
| Modulation Type | GFSK |
| Number of channels | 1 Channels |
| Field Strength of Fundamental | 54.77dBuV/m |
| Antenna Designation | Wire Antenna |
| Antenna Gain | 0dBi |
| Power Supply | DC 3V by battery |

2.2 TEST FREQUENCY LIST

| Frequency Band | Channel Number | Frequency |
|-----------------|----------------|-----------|
| 26.96~27.28 MHz | 01 | 27.05MHz |



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2.3 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2A56CVARC20** filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 TEST METHODOLOGY

The tests were performed according to following standards:

| No. | Identity | Document Title |
|-----|--------------------|---|
| 1 | FCC 47 CFR Part 2 | Frequency allocations and radio treaty matters; general rules and regulations |
| 2 | FCC 47 CFR Part 15 | Radio Frequency Devices |
| 3 | ANSI C63.10-2013 | American National Standard for Testing Unlicensed Wireless Devices |

2.5 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7 ANTENNA REQUIREMENT

Standard Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 0dBi.



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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 be in compliance with 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 be in compliance with 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 | EXTREME CONDITIONS | |
|------------------------|-------------------|--------------------|--|
| Temperature range (℃) | 15 - 35 | -20 - 50 | |
| Relative humidty range | 20 % - 75 % | 20 % - 75 % | |
| Pressure range (kPa) | 86 - 106 | 86 - 106 | |
| Power supply | | - | |
| | | | |

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

3.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

| Item | Measurement Uncertainty |
|---|----------------------------|
| Uncertainty of Conducted Emission for AC Port | $U_c = \pm 2.9 \text{ dB}$ |
| Uncertainty of Radiated Emission below 150kHz | $U_c = \pm 4.2 \text{ dB}$ |
| Uncertainty of Radiated Emission below 30MHz | $U_c = \pm 3.8 \text{ dB}$ |
| Uncertainty of Radiated Emission below 1GHz | $U_c = \pm 4.9 \text{ dB}$ |
| Uncertainty of total RF power, conducted | $U_c = \pm 0.8 \text{ dB}$ |
| Uncertainty of RF power density, conducted | $U_c = \pm 2.6 \text{ dB}$ |
| Uncertainty of spurious emissions, conducted | $U_c = \pm 2.7 \%$ |
| Uncertainty of Occupied Channel Bandwidth | U _c = ±2.7 % |



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3.5 LIST OF EQUIPMENTS USED

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------------|-----------------|----------|---------------------|---------------|---------------|
| Test Receiver | R&S | ESPI | 101206 | Mar. 28, 2022 | Mar. 27, 2023 |
| Artificial power network | R&S | ESH2-Z5 | 100086 | Jun. 08, 2022 | Jun. 07, 2023 |
| Test Software | FARA | EZ-EMC | Ver. AGC-CON03A1 | N/A | N/A |
| Test Receiver | R&S | ESCI | 10096 | Mar. 28, 2022 | Mar. 27, 2023 |
| EXA Signal Analyzer | Agilent | N9010A | MY53470504 | Aug. 04, 2022 | Aug. 03, 2023 |
| Attenuator | ZHINAN | E-002 | N/A | Aug. 04, 2022 | Aug. 03, 2024 |
| Active Loop Antenna (9K-30Mhz) | ZHINAN | ZN30900C | 18051 | Mar. 12, 2022 | Mar. 11, 2024 |
| Wideband Antenna | SCHWARZBEC K | VULB9168 | VULB9168-494 | Jan. 08, 2021 | Jan. 07, 2023 |
| Test Software | FARA | EZ-EMC | Ver.RA-03A | N/A | N/A |
| Test Software | Tonscend | JS32-RE | Ver.2.5 | N/A | N/A |



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4.SYSTEM TEST CONFIGURATION

4.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT EXERCISE

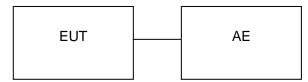
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



4.4 EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement:

☐ Test Accessories Come From The Laboratory

| Item | Equipment | Model No. | Identifier | Note |
|------|-------------|-----------|------------|------|
| 1 | Serial Line | N/A | N/A | AE |

☐ Test Accessories Come From The Manufacturer

| Item | Equipment | Model No. | Identifier | Note |
|------|------------|-----------|-------------|------|
| 1 | 2CH RC CAR | WT501535 | 2A56CVARC20 | EUT |



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4.5 SUMMARY OF TEST RESULTS

| Item | FCC Rules | Description Of Test | Result |
|------|------------|----------------------------------|--------|
| 1 | §15.203 | Antenna Equipment | Pass |
| 2 | 15.227(a) | Field Strength of Fundamental | Pass |
| 3 | §15.209 | Radiated Emission | Pass |
| 4 | §15.215(c) | 20dB Bandwidth | Pass |
| 5 | §15.205(a) | Restricted Bands of Operation | Pass |
| 6 | §15.207 | AC Power Line Conducted Emission | N/A |

Note: 1.N/A means not applicable

Note: 2. The device under test is battery-powered and does not require evaluation of AC Power Line Conducted Emission.



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5. DESCRIPTION OF TEST MODES

| | Summary table of Test Cases | | |
|----------------------------------|-----------------------------------|--|--|
| Test Item | Equipment Type / Modulation | | |
| iest item | Short Range Wireless Device/ GFSK | | |
| Radiated&Conducted Test Cases | Mode 1: TX_27.05 MHz | | |
| AC Conducted Emission | | | |

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. The battery is full-charged during the test.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 4. For Conducted Test method, a temporary antenna connector is provided by the manufacture.



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6. FIELD STRENGTH OF FUNDAMENTAL

6.1 PROVISIONS APPLICABLE

15.209 Limit in the below table has to be followed:

| Frequency | Distance | Field Stren | gths Limit |
|---------------|----------|---------------|-------------|
| (MHz) | Meters | μ V/m | dB(μV)/m |
| 0.009 ~ 0.490 | 300 | 2400/F(kHz) | |
| 0.490 ~ 1.705 | 30 | 24000/F(kHz) | |
| 1.705 ~ 30 | 30 | 30 | |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | 74.0 dB(μV |)/m (Peak) |
| 715070 1000 | | 54.0 dB(μV)/r | n (Average) |

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

15.227(a) Limit in the below table has to be followed:

| Fundamental Frequency | Field Strength of Fundamental (microvolts/meter) |
|-----------------------|--|
| 26.96-27.28MHz | 10000 |

6.2 MEASUREMENT PROCEDURE

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under



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Maximum Hold Mode.

- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

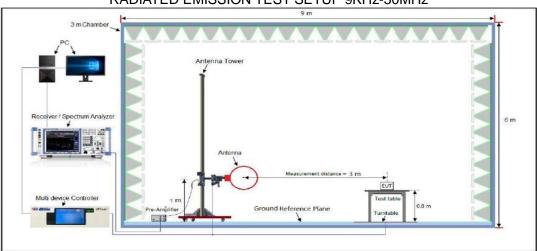
| Spectrum Parameter | Setting |
|-----------------------|---|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |
| Start ~Stop Frequency | 1GHz~26.5GHz |
| Start ~Stop Frequency | 1MHz/3MHz for Peak, 1MHz/3MHz for Average |

| Receiver Parameter | Setting |
|-----------------------|--------------------------------|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |

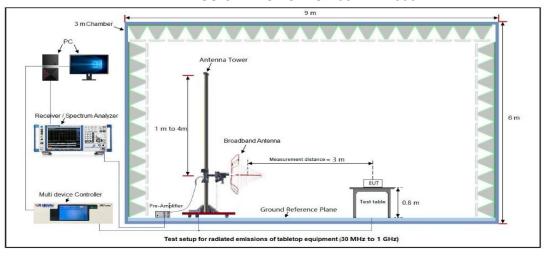


6.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)

RADIATED EMISSION TEST SETUP 9KHz-30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz





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6.4 MEASUREMENT RESULTS

FIELD STRENGTH OF FUNDAMENTAL

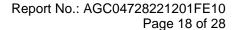
| EUT | 2CH RC CAR | Model Name | WT501535 |
|-------------|------------|-------------------|----------------|
| Temperature | 20℃ | Relative Humidity | 52% |
| Pressure | 985hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Face/Side |

| | | Pea | k Value | | |
|--------------------|-------------------------------|---------------------------|----------------------------|-----------------------|------------------|
| Frequency (MHz) | Measured Level @3m(dBuV/m) | Correction Factor dB/m | Field Strength (dBuV/m) | Limit @3m (dBuV/m) | E-Field Polarity |
| 27.05 | 30.37 | 24.40 | 54.77 | 80 | Face |
| 27.05 | 29.94 | 24.40 | 54.34 | 80 | Side |

| | | Avera | ge Value | | |
|--------------------|-------------------------------|---------------------------|----------------------------|-----------------------|------------------|
| Frequency (MHz) | Measured Level @3m(dBuV/m) | Correction Factor dB/m | Field Strength (dBuV/m) | Limit @3m (dBuV/m) | E-Field Polarity |
| 27.05 | 23.51 | 24.40 | 47.91 | 80 | Face |
| 27.05 | 20.13 | 24.40 | 44.53 | 80 | Side |

RESULT: PASS

Note: 1.Corr. Factor= Antenna Factor (dB/m) + Cable Loss (dB).

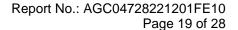




ELECTRIC FIELD TEST IN THE FREQUENCY RANGE 9KHz-150KHz

| | | | LD TEST IN | | | | | |
|-----------|------------|-----------------------------|--|--|---|---------------------------------|-----------------------------------|----------------------------------|
| EUT | | 2CH RC CAR | | | Model Name | | WT501 | 535 |
| Temperatu | ıre | 20℃ | | | Relative Humidity | | 52% | |
| Pressure | | 985hPa | | | Test Voltage | | Normal | Voltage |
| Test Mode | • | Mode 1 | | | Antenna | | Face | |
| 132 | 2.0 dBuV/r | | | | | | Limi | |
| -8 | m/hlynyr. | ol Mt. H. Vy franch modelle | | who from the way. | Walter State State of the same | MANA | Kymundanin Marine | AT MANAGEMENT |
| - | 0.009 | | | | | | | |
| | | | Deading | (MHz) | Management | | | 0.15 |
| | No. N | 1k. Freq. | Reading Level | (MHz) Correct Factor | Measure- ment | Limit | Over | 0.150 |
| - | No. M | /lk. Freq. | | Correct | | Limit dB/m | Over | 0.150 Detector |
| - | No. N | | Level | Correct Factor | ment | | | |
| - | | MHz | Level dBuV | Correct Factor | ment dBuV/m | dB/m | dB | Detector |
| - | 1 | MHz 0.0136 | dBuV -3.70 | Correct Factor dB 28.08 | ment dBuV/m 24.38 | dB/m 124.8 | dB -100.45 | Detector peak |
| | 1 2 | 0.0136 0.0184 | Level dBuV -3.70 -1.82 | Correct Factor dB 28.08 27.72 | ment dBuV/m 24.38 25.90 | dB/m 124.8 122.2 | dB -100.45 -96.31 | Detector peak peak |
| | 1 2 3 | 0.0136 0.0184 0.0314 | Level dBuV -3.70 -1.82 -2.65 | Correct Factor dB 28.08 27.72 26.75 | ment dBuV/m 24.38 25.90 24.10 | dB/m 124.8 122.2 117.5 | dB -100.45 -96.31 -93.49 | Detector peak peak peak |

RESULT: PASS

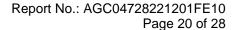




ELECTRIC FIELD TEST IN THE FREQUENCY RANGE 9KHz-150KHz

| | E | LECTRIC FIE | LD TEST IN | THE FRE | QUENCY RAI | NGE 9KH | Iz-150KH | Z | |
|-----------|----------|-------------|------------------|-------------------|------------------|-------------|------------------|-----------|--|
| EUT | | 2CH RC CAR | | | Model Name | | WT501 | WT501535 | |
| Temperatu | ire | 20℃ | | | Relative Hun | nidity | 52% | | |
| Pressure | | 985hPa | | | Test Voltage | | Normal | l Voltage | |
| Test Mode | | Mode 1 | | | Antenna | | Side | | |
| 132 | | | | | Mylary mills | Maharaharan | dathway property | rgin: | |
| -8 | 0.009 | | | (MHz) | | | | 0.150 | |
| _ | No. M | lk. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
| - | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | |
| _ | 1 | 0.0143 | -5.15 | 28.03 | 22.88 | 124.3 | -101.51 | peak | |
| _ | 2 | 0.0183 | -2.73 | 27.73 | 25.00 | 122.2 | -97.26 | peak | |
| _ | 3 | 0.0314 | -2.73 | 26.75 | 24.02 | 117.5 | -93.57 | peak | |
| _ | 4 | 0.0473 | -3.09 | 25.56 | 22.47 | 114.0 | -91.57 | peak | |
| _ | | | 0.00 | 20.00 | 00.45 | 110.6 | -90.15 | nook | |
| | 5 | 0.0704 | -3.38 | 23.83 | 20.45 | 110.0 | -90.13 | peak | |
| - | 5 6 * | 0.0704 | 0.89 | 23.83 | 20.45 | 104.9 | -82.47 | peak | |

RESULT: PASS

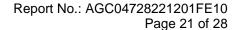




ELECTRIC FIELD TEST IN THE FREQUENCY RANGE 150KHz-30MHz

| Relative Humidity 52% | | LECTRIC FIELD | J I EST III | ITIL FREG | COLINCI NA | NGE 130 | KI1Z-JUIV | 1112 | |
|--|-------------|---------------|----------------|--|-------------------|--|------------------|----------------|--|
| Normal Voltage Normal Voltage Normal Voltage Face | EUT | 2CH RC CAR | | | Model Nam | ne | WT50 | WT501535 | |
| No. Mk. Freq. Reading Level Factor Reading Level Factor Measure Limit Over | Temperature | 20℃ | | | Relative Hu | umidity | 52% | 52% | |
| No. Mk. Freq. Reading Correct Measure Limit Over | Pressure | 985hPa | | | Test Voltage | | | Normal Voltage | |
| No. Mk. Freq. Reading Level Factor Measurement Limit Over MHz dBuV dB dBuV/m dB/m dB Detector | Test Mode | Mode 1 | | | Antenna F | | | Face | |
| No. Mk. Freq. Reading Correct Measure Limit Over MHz dBuV dB dBuV/m dB/m dB Detector | 120.0 dBuV/ | m | | | | | | | |
| No. Mk. Freq. Reading Level Factor Correct Factor ment Limit Measure ment Limit Over 1 0.2630 17.10 21.32 38.42 99.17 -60.75 peak 2 0.6719 15.33 21.02 36.35 71.06 -34.71 peak 3 2.6783 13.75 22.32 36.07 69.54 -33.47 peak 4 8.8692 22.38 24.07 46.45 69.54 -23.09 peak 5 12.7837 17.16 24.58 41.74 69.54 -27.80 peak | | | 2X Market Land | in the state of th | how have the part | of the state of th | 4 2 3 3 | Margin: — | |
| No. Mk. Freq. Reading Level Correct Factor Measurement Measurement Limit Over 1 0.2630 17.10 21.32 38.42 99.17 -60.75 peak 2 0.6719 15.33 21.02 36.35 71.06 -34.71 peak 3 2.6783 13.75 22.32 36.07 69.54 -33.47 peak 4 8.8692 22.38 24.07 46.45 69.54 -23.09 peak 5 12.7837 17.16 24.58 41.74 69.54 -27.80 peak | | | | | | | | | |
| 1 0.2630 17.10 21.32 38.42 99.17 -60.75 peak 2 0.6719 15.33 21.02 36.35 71.06 -34.71 peak 3 2.6783 13.75 22.32 36.07 69.54 -33.47 peak 4 8.8692 22.38 24.07 46.45 69.54 -23.09 peak 5 12.7837 17.16 24.58 41.74 69.54 -27.80 peak | | | | Correct | Measure- | | Over | 30.000 | |
| 2 0.6719 15.33 21.02 36.35 71.06 -34.71 peak 3 2.6783 13.75 22.32 36.07 69.54 -33.47 peak 4 8.8692 22.38 24.07 46.45 69.54 -23.09 peak 5 12.7837 17.16 24.58 41.74 69.54 -27.80 peak | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | |
| 3 2.6783 13.75 22.32 36.07 69.54 -33.47 peak 4 8.8692 22.38 24.07 46.45 69.54 -23.09 peak 5 12.7837 17.16 24.58 41.74 69.54 -27.80 peak | 1 | 0.2630 | 17.10 | 21.32 | 38.42 | 99.17 | -60.75 | peak | |
| 4 8.8692 22.38 24.07 46.45 69.54 -23.09 peak 5 12.7837 17.16 24.58 41.74 69.54 -27.80 peak | 2 | 0.6719 | 15.33 | 21.02 | 36.35 | 71.06 | -34.71 | peak | |
| 5 12.7837 17.16 24.58 41.74 69.54 -27.80 peak | 3 | 2.6783 | 13.75 | 22.32 | 36.07 | 69.54 | -33.47 | peak | |
| | 4 | 8.8692 | 22.38 | 24.07 | 46.45 | 69.54 | -23.09 | peak | |
| 6 * 27 0711 30 37 24 40 54 77 69 54 -14 77 peak | 5 | 12.7837 | 17.16 | 24.58 | 41.74 | 69.54 | -27.80 | peak | |
| | 6 | * 27.0711 | 30.37 | 24.40 | 54.77 | 69.54 | -14.77 | peak | |

RESULT: PASS





ELECTRIC FIELD TEST IN THE FREQUENCY RANGE 150KHz-30MHz

| EUT | | 2CH | RC CAR | | | Model Name | | WT50 | WT501535 | |
|-------------|--------|----------------|--|--|---|--|--|--------------------------------|---|--|
| Temperature | Ф | 20℃ | | | | Relative Hu | 52% | 52% | | |
| Pressure | | 985h | ıPa | | | Test Voltage Normal Voltage | | | nal Voltage | |
| Test Mode | | Mode 1 Antenna | | | | Side | Side | | | |
| 120.0 | dBuV/n | n | | | | | | | _imit: | |
| 60 | | | | | | | | | | |
| 0.0 a.1 | | M. W. | 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | with any and a special and a s | (MHz) | ************************************** | | | 30.00 | |
| 0.0 | 50 | Mk. | | Reading Level | | | alphaba ya ya da wa a fa ya ma a wa a wa a wa a wa a wa a wa a | Over | , den en e | |
| 0.0 | 50 | | 0.5 | Reading | (MHz) | Measure- | ally damping day of the production of the produc | | , den en e | |
| 0.0 | 50 | | Freq. | Reading Level | (MHz) Correct Factor | Measure- ment | Limit | Over | 30.00 | |
| 0.0 | No. | | Freq. | Reading Level dBuV | (MHz) Correct Factor dB | Measure- ment dBuV/m | Limit dB/m | Over | 30.00 | |
| 0.0 | No. | | 0.5 Freq. MHz 0.2630 | Reading Level dBuV 18.36 | Correct Factor dB 21.32 | Measure- ment dBuV/m 39.68 | Limit dB/m 99.17 | Over dB -59.49 | 30.00 Detector peak | |
| 0.0 | No. 1 | | 0.5 Freq. MHz 0.2630 0.5264 | Reading Level dBuV 18.36 16.98 | Correct Factor dB 21.32 20.90 | Measure- ment dBuV/m 39.68 37.88 | Limit dB/m 99.17 73.18 | Over dB -59.49 -35.30 | Detector peak peak | |

RESULT: PASS

NOTES:

1. Quasi-Peak detector is used for frequency below 30MHz.

27.0711

2. Negative value in the margin column shows emission below limit.

29.94

3. All measurements were made with 0.6m loop antenna at 3m distance. All emissions are below the QP limit.

24.40

54.34

69.54

-15.20

peak

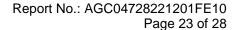
- 4. Corr. Factor= Antenna Factor (dB/m) + Cable Loss (dB)
- 5. Loop antenna is used for the emission under 30MHz.



RADIATED EMISSION FROM 30MHz ~1000MHz

| | | | INADI | AI ED EIVIIS | SION FRO | IVI JUIVINZ | ~ IUUUIVI MZ | | | |
|------------------|----------|---------------------------|--------------------------------------|------------------------------|-------------------------------|--|---------------------------------|----------------------------------|----------------------|--|
| EUT | | 2CH RC CAR | | | Model | Model Name | | WT501535 | | |
| Temperature | ; | | 20℃ | | | Relativ | Relative Humidity | | 53% | |
| Pressure | | | 985hPa | | | Test Vo | Test Voltage | | mal Voltage | |
| Test Mode | | | Mode 1 | | | Antenr | Antenna | | izontal | |
| 72.0 | dBuV/m | 10 50 | 60 70 | Reading | (MHz) | Market Ma | 3 4 1 | Lir | nit: | |
| - | | IVID | Fred | l evel | Factor | ment | Limit | Ovei | | |
| | | IVIN. | Freq. | Level dBuV | Factor dB | ment dBuV/m | dB/m | dB | Detector | |
| - | 1 | | | | | | | | Detector peak | |
| - | 1 2 | | MHz | dBuV | dB | dBuV/m | dB/m | dB | | |
| - - - | | 12 | MHz 54.4515 | dBu∨ 8.74 | dB 15.12 | dBuV/m 23.86 | dB/m 40.00 | dB -16.14 | peak | |
| - - - | 2 | 5 12 31 | MHz 54.4515 20.2766 | dBu√ 8.74 5.21 | dB 15.12 21.83 | dBuV/m 23.86 27.04 | dB/m 40.00 43.50 | dB -16.14 -16.46 | peak peak | |
| - - - - | 2 | 5 12 31 43 61 | MHz 54.4515 20.2766 15.4806 | 6BuV 8.74 5.21 5.45 | dB 15.12 21.83 26.05 | dBuV/m 23.86 27.04 31.50 | dB/m 40.00 43.50 46.00 | dB -16.14 -16.46 -14.50 | peak peak peak | |

RESULT: PASS





| Pressure 985hPa Test Voltage Normal Voltage | UT | | 2CH RC CAR | | | Model N | ame | WT | 501535 | |
|---|--------------------|----------------------|---|---|---|--|------------------------------------|--|------------------------------|--|
| No. Mk. Freq. Reading Correct Factor Measure Limit Over | emperature | | 20℃ | | | Relative | Relative Humidity | | 53% | |
| No. Mk Freq Reading Correct Factor Measure Limit Over | Pressure | | 985hPa | | | Test Vol | Test Voltage | | mal Voltage | |
| No. Mk. Freq. Reading Level Factor Measure ment Limit Over MHz dBuV dB dBuV/m dB/m dB Detector | est Mode | | Mode 1 | | | Antenna | Antenna Ve | | tical | |
| No. Mk. Freq. Reading Correct Measure Limit Over | 72.0 dBuV | /m | | | | | | | | |
| No. Mk. Freq. Reading Level Correct Factor Measurement Limit Over MHz dBuV dB dBuV/m dB/m dB Detector 1 54.4516 10.49 17.04 27.53 40.00 -12.47 peak 2 131.7577 6.10 16.41 22.51 43.50 -20.99 peak 3 302.4812 5.04 20.83 25.87 46.00 -20.13 peak 4 429.5228 6.61 23.47 30.08 46.00 -15.92 peak 5 696.8567 5.84 29.72 35.56 46.00 -10.44 peak | | | | | | | 4 | | | |
| No. Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dB/m dB Detector 1 54.4516 10.49 17.04 27.53 40.00 -12.47 peak 2 131.7577 6.10 16.41 22.51 43.50 -20.99 peak 3 302.4812 5.04 20.83 25.87 46.00 -20.13 peak 4 429.5228 6.61 23.47 30.08 46.00 -15.92 peak 5 696.8567 5.84 29.72 35.56 46.00 -10.44 peak | | angenter the met way | 1 X X | dhy donis delever of the object | 2 Annhayanan | Market or the Party of the Part | Market Market | are in production of the | | |
| 1 54.4516 10.49 17.04 27.53 40.00 -12.47 peak 2 131.7577 6.10 16.41 22.51 43.50 -20.99 peak 3 302.4812 5.04 20.83 25.87 46.00 -20.13 peak 4 429.5228 6.61 23.47 30.08 46.00 -15.92 peak 5 696.8567 5.84 29.72 35.56 46.00 -10.44 peak | -8 | | | | | | | | | |
| 2 131.7577 6.10 16.41 22.51 43.50 -20.99 peak 3 302.4812 5.04 20.83 25.87 46.00 -20.13 peak 4 429.5228 6.61 23.47 30.08 46.00 -15.92 peak 5 696.8567 5.84 29.72 35.56 46.00 -10.44 peak | -8 30.000 | 40 50 | 60 70 8 | Reading | (MHz) | 300 Measure- | 0 400 | 500 600 | | |
| 3 302.4812 5.04 20.83 25.87 46.00 -20.13 peak 4 429.5228 6.61 23.47 30.08 46.00 -15.92 peak 5 696.8567 5.84 29.72 35.56 46.00 -10.44 peak | -8 30.000 | 40 50 | 60 70 8 | Reading Level | (MHz) Correct Factor | Measure- ment | Limit | 500 600 Over | 700 1000.000 | |
| 4 429.5228 6.61 23.47 30.08 46.00 -15.92 peak 5 696.8567 5.84 29.72 35.56 46.00 -10.44 peak | -8 30.000 | 40 50 o. Mk. | Freq. | Reading Level | (MHz) Correct Factor dB | Measure- ment | Limit | Over | 700 1000.000 Detector | |
| 5 696.8567 5.84 29.72 35.56 46.00 -10.44 peak | -8 20.000 No | 40 50 o. Mk. | Freq. MHz | Reading Level dBuV 10.49 | Correct Factor dB 17.04 | Measure- ment dBuV/m 27.53 | Limit dB/m 40.00 | Over dB -12.47 | Detector peak | |
| | -8 20.000 No | 40 50 o. Mk. | Freq. MHz 54.4516 31.7577 | Reading Level dBuV 10.49 6.10 | Correct Factor dB 17.04 16.41 | Measure- ment dBuV/m 27.53 22.51 | Limit dB/m 40.00 43.50 | Over dB -12.47 -20.99 | Detector peak peak | |
| 6 * 942.1305 6.07 31.02 37.09 46.00 -8.91 peak | -8 20.000 No | o. Mk. | Freq. MHz 54.4516 31.7577 02.4812 | Reading Level dBuV 10.49 6.10 5.04 | (MHz) Correct Factor dB 17.04 16.41 20.83 | Measure- ment dBuV/m 27.53 22.51 25.87 | Limit dB/m 40.00 43.50 46.00 | Over dB -12.47 -20.99 -20.13 | Detector peak peak peak | |
| | -8 30.000 No | o. Mk. | Freq. MHz 54.4516 31.7577 02.4812 29.5228 | Reading Level dBuV 10.49 6.10 5.04 6.61 | Correct Factor dB 17.04 16.41 20.83 23.47 | Measure- ment dBuV/m 27.53 22.51 25.87 30.08 | Limit dB/m 40.00 43.50 46.00 46.00 | Over dB -12.47 -20.99 -20.13 -15.92 | Detector peak peak peak peak | |

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.

- 2. All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.
- 3. The "Factor" value can be calculated automatically by software of measurement system.



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7. 20 dB BANDWIDTH

7.1 PROVISIONS APPLICABLE

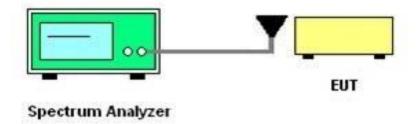
Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 26.98~27.28MHz.

7.2 MEASUREMENT PROCEDURE

Set the parameters of SPA as below:

- The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
- 2. Centre frequency = Operation Frequency
- 3. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 4. Span: 60kHz, Sweep time: Auto
- Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the "N dB down" function of SPA to define the bandwidth.
- 6. Measured the spectrum width with power higher than 20dB below carrier.
- 7. Measured the 99% OBW.
- 8. Record the plots and Reported.

7.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



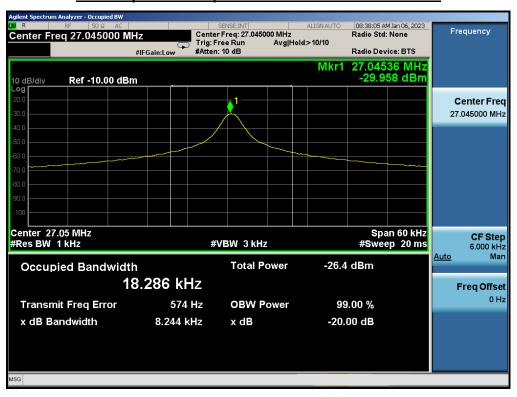


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7.4 MEASUREMENT RESULTS

| | Test Data of Bandwidth Measurement | | | | | | | |
|-----------|------------------------------------|------------------------------|--------------------------|-----------------|--------------|--|--|--|
| Test Mode | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -20dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail | | | |
| GFSK | 27.05 | 0.018286 | 0.008244 | N/A | Pass | | | |

Test Graphs of Occupied Bandwidth&-20dB Bandwidth





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8. AC POWER LINE CONDUCTED EMISSION TEST

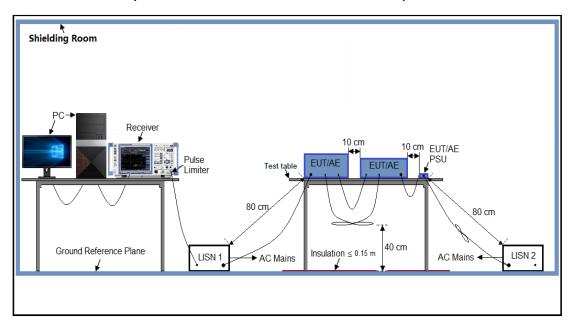
8.1 LIMITS OF LINE CONDUCTED EMISSION TEST

| Francis | Maximum RF Line Voltage | | | | |
|---------------|-------------------------|----------------|--|--|--|
| Frequency | Q.P. (dBμV) | Average (dBμV) | | | |
| 150kHz~500kHz | 66-56 | 56-46 | | | |
| 500kHz~5MHz | 56 | 46 | | | |
| 5MHz~30MHz | 60 | 50 | | | |

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

8.2 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)





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8.3 PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

8.4 FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

8.5 MEASUREMENT RESULTS

Not Applicable

Note: This device is battery powered, there is no AC power supply.



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APPENDIX I: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC04728221201AP01

APPENDIX II: PHOTOGRAPHS OF TEST EUT

Refer to the Report No.: AGC04728221201AP02

----END OF REPORT----



Conditions of Issuance of Test Reports

- 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.