

FCC Test Report

Report No.: AGC08696201004FE02

| FCC ID | 0 | 2AUR5-ESS2 |
|---------------------|--------|---------------------|
| APPLICATION PURPOSE | : | Original Equipment |
| PRODUCT DESIGNATION | : | Electric scooter |
| BRAND NAME | | ORBO |
| MODEL NAME | .: | ESS2 |
| APPLICANT | : | HL CORP (SHEN ZHEN) |
| DATE OF ISSUE | © • | Nov. 20,2020 |
| STANDARD(S) | : | FCC Part 15.247 |
| REPORT VERSION | : | V1.0 |



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REPORT REVISE RECORD

| | Report Version | Revise Time | Issued Date | Valid Version | Notes | |
|---|----------------|-------------|--------------|---------------|-----------------|---|
|) | V1.0 | | Nov. 20,2020 | Valid | Initial Release | 0 |

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1. VERIFICATION OF COMPLIANCE

| Applicant | HL CORP (SHEN ZHEN) |
|--------------------------|--|
| Address | The third Industrial Park, Bitou Village, Songgang Town, Baoan district, Shenzhen, China |
| Manufacturer | HL CORP (SHEN ZHEN) |
| Address | The third Industrial Park, Bitou Village, Songgang Town, Baoan district, Shenzhen, China |
| Factory | HL CORP (SHEN ZHEN) |
| Address | The third Industrial Park, Bitou Village, Songgang Town, Baoan district, Shenzhen, China |
| Product Designation | Electric scooter |
| Brand Name | ORBO |
| Test Model | ESS2 |
| Date of test | Oct. 23,2020 to Nov. 20,2020 |
| Deviation | No any deviation from the test method |
| Condition of Test Sample | Normal |
| Test Result | Pass |
| Report Template | AGCRT-US-BLE/RF |
| | |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By

John Zerry

John Zeng (Project Engineer)

Nov. 20,2020

Max Zhang

Reviewed By

Max Zhang (Reviewer)

Nov. 20,2020

Approved By

Forrest Lei (Authorized Officer)

oWe

Nov. 20,2020

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Electric scooter". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

| 2.402 GHz to 2.480GHz |
|--|
| 0.603dBm (Max) |
| V 4.0 |
| BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ⊠GFSK 1Mbps □GFSK 2Mbps |
| 40 Channel |
| Integral Antenna (Comply with requirements of the FCC part 15.203) |
| OdBi |
| 1.0 |
| 2.31 |
| DC 46.8V by battery or DC 54.6V by adapter |
| |

2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| | 0 | 2402 MHz |
| | | 2404 MHz |
| 2400~2483.5MHz | | |
| | 38 | 2478 MHz |
| | 39 | 2480 MHz |

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2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for FCC ID: 2AUR5-ESS2 filing to comply with the FCC Part 15.247 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y $\pm U$, 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%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, $Uc = \pm 3.9 dB$
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8 dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6 dB
- Uncertainty of spurious emissions, conducted, $Uc = \pm 2.7 dB$
- Uncertainty of Occupied Channel Bandwidth: $Uc = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|-----|-----------------------|
| 1 | Low channel TX |
| 2 | Middle channel TX |
| 3 | High channel TX |

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

4. The test software is the EMI_Test_V1.3 which can set the EUT into the individual test modes.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

| CUT | \square | | |
|-----|-----------|----|--|
| EUT | | AE | |
| | | | |
| | | | |
| | | | |
| | | | |

5.2. EQUIPMENT USED IN TESTED SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark |
|------|------------------|--------------|---------------------|-----------|
| 1 | Electric scooter | ESS2 | 2AUR5-ESS2 | EUT |
| 2 | Adapter | FY1505462000 | N/A | Accessory |
| 3 | Control Box | N/A | N/A | Accessory |

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|---------------|--|-----------|
| 15.247 (b)(3) | Peak Output Power | Compliant |
| 15.247 (a)(2) | 6 dB Bandwidth | Compliant |
| 15.247 (d) | Conducted Spurious Emission | Compliant |
| 15.247 (e) | Maximum Conducted Output Power Density | Compliant |
| 15.209 | Radiated Emission | Compliant |
| 15.207 | Conducted Emission | Compliant |

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6. TEST FACILITY

| Test Site | Attestation of Global Compliance (Shenzhen) Co., Ltd | |
|--------------------------------------|---|--|
| Location | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China | |
| Designation Number | CN1259 | |
| FCC Test Firm Registration Number | 975832 | |
| A2LA Cert. No. | 5054.02 | |
| Description | Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA | |

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|---------------|--------------|------------------|--------|--------------|--------------|
| TEST RECEIVER | R&S | ESPI | 101206 | May 15, 2020 | May 14, 2021 |
| LISN | R&S | ESH2-Z5 | 100086 | Jul. 03,2020 | Jul. 02,2021 |
| Test software | R&S | ES-K1(Ver.V1.71) | N/A | N/A | N/A |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------------|----------------|----------------------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | May 15, 2020 | May 14, 2021 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Dec. 12, 2019 | Dec. 11, 2020 |
| 2.4GHz Filter | EM Electronics | 2400-2500MHz | N/A | Mar. 23, 2020 | Mar. 22, 2022 |
| Attenuator | ZHINAN | E-002 | N/A | N/A | N/A |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Sep. 09, 2019 | Sep. 08, 2021 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | May 22, 2020 | May 21, 2022 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | May 17, 2019 | May 16, 2021 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Sep. 03,2020 | Sep. 02,2022 |
| ANTENNA | SCHWARZBECK | VULB9168 | 494 | Jan. 09, 2019 | Jan. 08, 2021 |
| Test software | Tonscend | JS32-RE (Ver.2.5) | C N/A | N/A | N/A |

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7. PEAK OUTPUT POWER

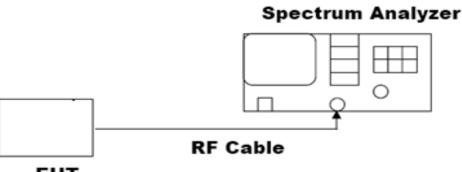
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW > DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



EUT

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7.3. LIMITS AND MEASUREMENT RESULT

| PEAK OUTPUT POWER MEASUREMENT RESULT | | | | | | |
|--------------------------------------|----------------------------|--------------|------|--|--|--|
| | FOR GFSK MOUDULATION | | | | | |
| Frequency (GHz) | Applicable Limits (dBm) | Pass or Fail | | | | |
| 2.402 | -0.514 | 30 | Pass | | | |
| 2.440 | 0.180 | 30 | Pass | | | |
| 2.480 | 0.603 | 30 | Pass | | | |

CH0

| Agilent Spectrum Analyzer - Swept SA | | | | | |
|--------------------------------------|-----------------------------|--------------------------------|-------------------|---|------------------------------|
| R RF 50 Ω A Center Freq 2.4020000 | | SENSE:INT | ALIGN AUTO/NORF | 01:42:42 PM Nov 18, 2020 TRACE 1 2 3 4 5 6 | Frequency |
| 00110111092.402000 | PNO: Fast +++ IFGain:Low | Trig: Free Run Atten: 30 dB | Avg Hold: 100/100 | TYPE MWWWWWWW DET P N N N N N | |
| | II GUIILEON | | Mkr1 : | 2.402 145 GHz | Auto Tune |
| 10 dB/div Ref 20.00 dBr | m | | | -0.514 dBm | |
| | | | | | Center Fred |
| 10.0 | | | | | 2.402000000 GH |
| 0.00 | | ∮ 1 | | | |
| 0.00 | | | | | Start Fred |
| -10.0 | | | | | 2.399500000 GH |
| ~ | | | | | |
| -20.0 | | | | | Stop Fred 2.404500000 GHz |
| -30.0 | | | | | 2.404500000 GH2 |
| | | | | | CF Step |
| -40.0 | | | | | 500.000 kHz Auto Mar |
| -50.0 | | | | | <u>Auto</u> Mar |
| | | | | | Freq Offset |
| -60.0 | | | | | он: |
| -70.0 | | | | | |
| | | | | | |
| Center 2.402000 GHz | | | | Span 5.000 MHz | |
| #Res BW 1.5 MHz | #VBW | 5.0 MHz | Sweep 1.0 | 000 ms (1001 pts) | |
| MSG | | | STATUS | | |

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CH39

| Agilent Spectrum Analyzer - Swept SA | 500055 | | A 4100 4170 21005 | | |
|--|---|--------------------|-------------------|---|---|
| Image: R RF 50 Ω AC Center Freq 2.480000000 Image: R Image: R <thimage: r<="" th=""> <thimage: r<="" th=""> <thimage< td=""><td>GH₇</td><td>Avg</td><td>Type: Log-Pwr</td><td>01:48:51 PMNov 18, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW</td><td>Frequency</td></thimage<></thimage:></thimage:> | GH ₇ | Avg | Type: Log-Pwr | 01:48:51 PMNov 18, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW | Frequency |
| | PNO: Fast +++ Trig: Fre IFGain:Low Atten: 30 | eRun Avg i 0 dB | Hold: 100/100 | DET PNNNN | |
| 10 dB/div Ref 20.00 dBm | | | Mkr1 2 | 2.479 715 GHz 0.603 dBm | Auto Tune |
| 10.0 | 1 | | | | Center Freq 2.480000000 GHz |
| -10.0 | | | | | Start Freq 2.477500000 GHz |
| -20.0 | | | | | Stop Freq 2.482500000 GHz |
| -40.0 | | | | | CF Step 500.000 kHz <u>Auto</u> Man |
| -60.0 | | | | | Freq Offset 0 Hz |
| -70.0 Center 2.480000 GHz | | | | Span 5.000 MHz | |
| #Res BW 1.5 MHz | #VBW 5.0 MHz | 2 | | 100 ms (1001 pts) | |
| MSG | | | STATUS | | |

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8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

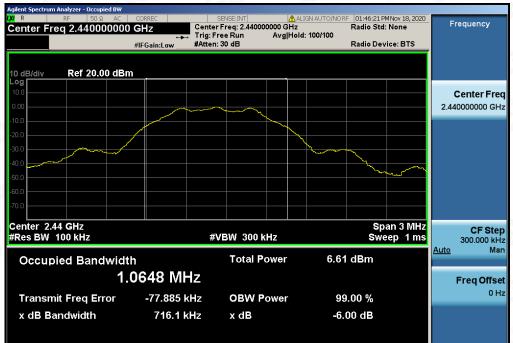
| LIMITS AND MEASUREMENT RESULT | | | | | |
|-------------------------------|-------------------|-------|----------|--|--|
| Applicable Limite | Applicable Limits | | | | |
| Applicable Limits | Test Data | (kHz) | Criteria | | |
| >500KHZ | Low Channel | 719.9 | PASS | | |
| | Middle Channel | 716.1 | PASS | | |
| | High Channel | 703.3 | PASS | | |



TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

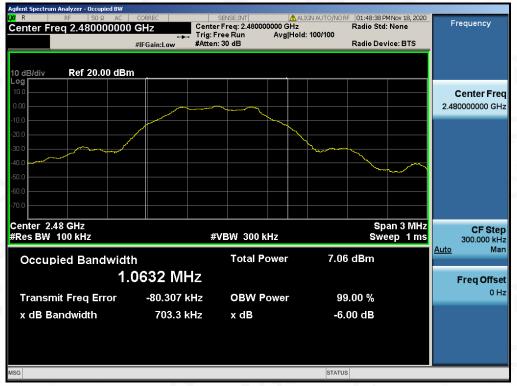
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEASUREMENT RESULT | | | | | |
|--|--|----------|--|--|--|
| | Measurement Result | | | | |
| Applicable Limits | Test Data | Criteria | | | |
| In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. | At least -20dBc than the reference level | PASS | | | |

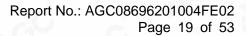
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TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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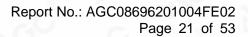
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



| Agilent Spectrum Analyzer - Swej | | | | | |
|---|---|---|---|--|--|
| Center Freq 2.4400 | | SENSE:INT | ALIGN AUTO/NOR Avg Type: Log-Pwr | F 01:47:13 PM Nov 18, 2020 TRACE 1 2 3 4 5 6 | Frequency |
| Center Freq 2.4400 | PNO: Wide + | 🛌 Trig: Free Run | Avg Hold: 10/10 | TYPE MWWWWWW DET P N N N N N | |
| | IFGain:Low _ | Atten: 30 dB | | | Auto Tune |
| | | | IVIKET 2 | 439 923 2 GHz -0.095 dBm | |
| 10 dB/div Ref 20.00 | Jabm | | | -0.030 abiii | |
| 10.0 | | 1 ['] | | | Center Freq |
| 0.00 | | | | | 2.440000000 GHz |
| -10.0 | | | | | |
| -20.0 | | | | | Start Freq |
| -30.0 | | | | ~ | 2.438500000 GHz |
| -40.0 | | | | The second | |
| -50.0 | | | | | |
| -60.0 | | | | | Stop Freq |
| -70.0 | | | | | 2.441500000 GHz |
| | | | | | |
| Center 2.440000 GH #Res BW 100 kHz | | W 300 kHz | Swoon J | Span 3.000 MHz (30000 pts) 000 ms | CF Step 300.000 kHz |
| | | | - | | Auto Man |
| MKR MODE TRC SCL | × 2.439 923 2 GHz | -0.095 dBm | FUNCTION FUNCTION WIDTH | FUNCTION VALUE | |
| 2 | 2.403 320 2 0112 | -0.000 dBiii | | | Freq Offset |
| 3 | | | | | 0 Hz |
| 5 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 10 | | | | | |
| | | | | | |
| MSG | | | | | |
| | | | STATUS | 5 | |
| Agilent Spectrum Analyzer - Swej | | | | | |
| L <mark>XI</mark> R RF 50 | Ω AC CORREC | SENSE:INT | | F 01:47:22 PM Nov 18, 2020 | Frequency |
| | Ω AC CORREC 000000 GHz PN0: Fast ← | ► Trig: Free Run | ALIGN AUTO/NOR | F 01:47:22 PM Nov 18, 2020 | Frequency |
| L <mark>XI</mark> R RF 50 | Ω AC CORREC 000000 GHz | Talas Face Base | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18, 2020 TRACE 1 2 3 4 5 6 TYPE MYWWWW DET P N N N N | Frequency Auto Tune |
| Image: Window Conternation of the second s | Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low | ► Trig: Free Run | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18, 2020 TRACE 2 3 4 5 6 TYPE WWWWW DET P N N N N 1 2.283 95 GHz | |
| L <mark>XI</mark> R RF 50 | Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low | ► Trig: Free Run | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18, 2020 TRACE 1 2 3 4 5 6 TYPE MYWWWW DET P N N N N | |
| XX R 150 Center Freq 1.2150 100 < | Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low | ► Trig: Free Run | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18, 2020 TRACE 2 3 4 5 6 TYPE WWWWW DET P N N N N 1 2.283 95 GHz | |
| XX R RF S0 Center Freq 1.2150 1.2150 10 dB/div Ref 20.00 00 1.2150 | Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low | ► Trig: Free Run | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18, 2020 TRACE 2 3 4 5 6 TYPE WWWWW DET P N N N N 1 2.283 95 GHz | Auto Tune |
| IXI R RF SD Center Freq 1.2150 Interference Interference <t< td=""><td>Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low</td><td>► Trig: Free Run</td><td>ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10</td><td>F 01:47:22 PMNov 18,2020 TRACE 12.23 4 5 6 TV DET MANNEN DET P.N.N.N.N. 1 2.2283 95 GHz -55.973 dBm</td><td>Auto Tune Center Freq</td></t<> | Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low | ► Trig: Free Run | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18,2020 TRACE 12.23 4 5 6 TV DET MANNEN DET P.N.N.N.N. 1 2.2283 95 GHz -55.973 dBm | Auto Tune Center Freq |
| IM RF SD Center Freq 1.2150 1.2150 10 dB/div Ref 20.00 10 dB/div Ref 20.00 10 0 0.00 | Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low | ► Trig: Free Run | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18, 2020 TRACE 2 3 4 5 6 TYPE WWWWW DET P N N N N 1 2.283 95 GHz | Auto Tune Center Freq 1.215000000 GHz |
| IXI R RF SD Center Freq 1.2150 Ref 20.00 Ref 20.00 <t< td=""><td>Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low</td><td>► Trig: Free Run</td><td>ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10</td><td>F 01:47:22 PMNov 18,2020 TRACE 12.23 4 5 6 TV DET MANNEN DET P.N.N.N.N. 1 2.2283 95 GHz -55.973 dBm</td><td>Auto Tune Center Freq</td></t<> | Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low | ► Trig: Free Run | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18,2020 TRACE 12.23 4 5 6 TV DET MANNEN DET P.N.N.N.N. 1 2.2283 95 GHz -55.973 dBm | Auto Tune Center Freq |
| IX R RF SO Center Freq 1.2150 1.2150 10 dB/div Ref 20.00 10.0 | Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low | ► Trig: Free Run | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18,2020 TRACE 12.23 4 5 6 TV DET MANNEN DET P.N.N.N.N. 1 2.2283 95 GHz -55.973 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq |
| Image: Non-State Ref SO Center Freq 1.2150 | Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low | ► Trig: Free Run | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18,2020 TRACE 12.23 4 5 6 TV DET MANNEN DET P.N.N.N.N. 1 2.2283 95 GHz -55.973 dBm | Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz |
| Image: Non-Structure RF ED 10 dE/div Ref 20.00 10 dE/div Ref 20.00 10 dE/div Ref 20.00 10 dE/div Ref 20.00 | Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low | ► Trig: Free Run | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18,2020 TRACE 12.23 4 5 6 TV DET MANNEN DET P.N.N.N.N. 1 2.2283 95 GHz -55.973 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq |
| Image: Non-State State Ref SO Center Freq 1.2150 Image: State < | Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low | ► Trig: Free Run | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18,2020 TRACE 12.23 4 5 6 TV DET MANNEN DET P.N.N.N.N. 1 2.2283 95 GHz -55.973 dBm | Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz |
| IXI R RF SD Center Freq 1.2150 Ref 20.00 Ref 20.00 <thref 20.00<="" th=""> Ref 20.00 <th< td=""><td>Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low</td><td>► Trig: Free Run</td><td>ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10</td><td>F 01:47:22 PMNov 18, 2020 TRACE 12 28 4 5 6 TVPE 12 28 3 95 GHz -55.973 dBm -20.10 dBm -20.10 dBm -20.10 dBm</td><td>Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz</td></th<></thref> | Ω AC CORREC 000000 GHz PN0: Fast ← IFGain:Low | ► Trig: Free Run | ALIGN AUTO/NOR Avg Type: Log-Pwr Avg Hold: 10/10 | F 01:47:22 PMNov 18, 2020 TRACE 12 28 4 5 6 TVPE 12 28 3 95 GHz -55.973 dBm -20.10 dBm -20.10 dBm -20.10 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz |
| DV R PF SO Center Freq 1.2150 Ref 20.00 Ref 20.00 <thref 20.00<="" th=""> Ref 20.00 <thr< td=""><td>Q. AC CORREC D00000 GHz PR0: Fast IFGain:Low</td><td>Trig: Free Run Atten: 30 dB</td><td>Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mikr</td><td>F 01:47:22 PMNov 18,2020 TRACE 12 23 4 5 6 TYPE MAXMMUN 18 TYPE MAXMMUN 18 1 2.283 95 GHz -55.973 dBm -2010 dBm -2010 dBm -2010 dBm -2010 dBm -2010 dBm</td><td>Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq</td></thr<></thref> | Q. AC CORREC D00000 GHz PR0: Fast IFGain:Low | Trig: Free Run Atten: 30 dB | Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mikr | F 01:47:22 PMNov 18,2020 TRACE 12 23 4 5 6 TYPE MAXMMUN 18 TYPE MAXMMUN 18 1 2.283 95 GHz -55.973 dBm -2010 dBm -2010 dBm -2010 dBm -2010 dBm -2010 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq |
| Image: Non-State in the second seco | R AC CORREC D00000 GHz PN0: Fast PN0: Fast IFGain:Low | Trig: Free Run Atten: 30 dB Atten: 40 dB<td>Arg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mkr</td><td>F 01:47:22 PMNov 18, 2020 TRACE 12 28 4 5 6 TVPE 12 28 3 95 GHz -55.973 dBm -20.10 dBm</td><td>Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz</td> | Arg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | F 01:47:22 PMNov 18, 2020 TRACE 12 28 4 5 6 TVPE 12 28 3 95 GHz -55.973 dBm -20.10 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz |
| Image: Non-State in the second seco | Q. AC CORREC D00000 GHz PR0: Fast IFGain:Low | Trig: Free Run Atten: 30 dB Atten: 40 dB<td>Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mikr</td><td>F 01:47:22 PMNov 18,2020 TRACE 12 23 4 5 6 TYPE MAXMMUN 18 TYPE MAXMMUN 18 1 2.283 95 GHz -55.973 dBm -2010 dBm -2010 dBm -2010 dBm -2010 dBm -2010 dBm</td><td>Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz</td> | Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mikr | F 01:47:22 PMNov 18,2020 TRACE 12 23 4 5 6 TYPE MAXMMUN 18 TYPE MAXMMUN 18 1 2.283 95 GHz -55.973 dBm -2010 dBm -2010 dBm -2010 dBm -2010 dBm -2010 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz |
| XX R PF SO Center Freq 1.2150 Ref 20.00 Ref 20.00 <thref 20.00<="" th=""> Ref 20.00 <thr< td=""><td>AC CORREC OQUOUO GHZ PRO: Fast IFGain:Low O dBm O dBm If Gain:Low WHE WHE X</td><td>Trig: Free Run Atten: 30 dB</td><td>Arg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mkr</td><td>F 01:47:22 PMNov 18, 2020 TRACE 12 28 4 5 6 TVPE 12 28 3 95 GHz -55.973 dBm -20.10 dBm</td><td>Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz</td></thr<></thref> | AC CORREC OQUOUO GHZ PRO: Fast IFGain:Low O dBm O dBm If Gain:Low WHE WHE X | Trig: Free Run Atten: 30 dB | Arg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | F 01:47:22 PMNov 18, 2020 TRACE 12 28 4 5 6 TVPE 12 28 3 95 GHz -55.973 dBm -20.10 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz |
| DX R PF SD Center Freq 1.2150 Ref 20.00 SD SD 10 dE/div Ref 20.00 SD | AC CORREC OQUOUO GHZ PRO: Fast IFGain:Low O dBm O dBm If Gain:Low WHE WHE X | Trig: Free Run Atten: 30 dB | Arg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | F 01:47:22 PMNov 18, 2020 TRACE 12 28 4 5 6 TVPE 12 28 3 95 GHz -55.973 dBm -20.10 dBm | Start Freq 30.00000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |
| DX R PF SO Center Freq 1.2150 Conter Freq 1.2150 Conter Freq 1.2150 10 dB/div Ref 20.00 Conter Freq 1.2150 -20 d | AC CORREC OQUOUO GHZ PRO: Fast IFGain:Low O dBm O dBm If Gain:Low WHE WHE X | Trig: Free Run Atten: 30 dB | Arg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | F 01:47:22 PMNov 18, 2020 TRACE 12 28 4 5 6 TVPE 12 28 3 95 GHz -55.973 dBm -20.10 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |
| DX R PF SD Center Freq 1.2150 Ref 20.00 Ref 20.00 Og Image: Constraint of the second | AC CORREC OQUOUO GHZ PRO: Fast IFGain:Low O dBm O dBm If Gain:Low WHE WHE X | Trig: Free Run Atten: 30 dB | Arg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | F 01:47:22 PMNov 18, 2020 TRACE 12 28 4 5 6 TVPE 12 28 3 95 GHz -55.973 dBm -20.10 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |
| DX R PF SD Center Freq 1.2150 Ref 20.00 SD SD 10 dE/div Ref 20.00 SD SD 10.0 | AC CORREC OQUOUO GHZ PRO: Fast IFGain:Low O dBm O dBm If Gain:Low WHE WHE X | Trig: Free Run Atten: 30 dB | Arg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | F 01:47:22 PMNov 18, 2020 TRACE 12 28 4 5 6 TVPE 12 28 3 95 GHz -55.973 dBm -20.10 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |
| DV R PF SD Center Freq 1.2150 Ref 20.00 SO SO 10 dB/div Ref 20.00 | AC CORREC OQUOUO GHZ PRO: Fast IFGain:Low O dBm O dBm If Gain:Low WHE WHE X | Trig: Free Run Atten: 30 dB | Arg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | F 01:47:22 PMNov 18, 2020 TRACE 12 28 4 5 6 TVPE 12 28 3 95 GHz -55.973 dBm -20.10 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |
| DV R PF SD Center Freq 1.2150 Ref 20.00 Ref 20.00 00 | AC CORREC OQUOUO GHZ PRO: Fast IFGain:Low O dBm O dBm If Gain:Low WHE WHE X | Trig: Free Run Atten: 30 dB | Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | F 01:47:22 PMNov 18, 2020 TRACE [] 2 3 4 5 6 TYPE [] 2 3 4 5 6 TYPE [] 2 4 5 6 TYPE [] | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |

GFSK MODULATION IN MIDDLE CHANNEL

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| Agilent Spectrum Analyzer - Swept SA | | | | | |
|--|-------------------------|-----------|--------------------------------------|--------------------------------|----------------------------|
| (X) R RF 50 Ω AC | CORREC | SENSE:INT | | 01:47:47 PM Nov 18, 2020 | Frequency |
| Center Freq 13.74175000 | | | Avg Type: Log-Pwr AvglHold: 10/10 | TRACE 123456 | Trequency |
| | | en: 30 dB | avginora. Ionio | TYPE MWWWWW DET P N N N N N | |
| | | | Miket | 02 565 7 CHz | Auto Tune |
| | | | IVINI | 1 23.565 7 GHz -48.707 dBm | |
| 10 dB/div Ref 20.00 dBm | | | | -40.707 ubm | |
| | | | | | Contor From |
| | | | | | Center Freq |
| 0.00 | | | | | 13.741750000 GHz |
| -10.0 | | | | | |
| -20.0 | | | | -20.10 dBm | |
| | | | | | Start Freq |
| -30.0 | | | | | 2.483500000 GHz |
| -40.0 | | | | 1_ | |
| -50.0 | | | | | |
| -60.0 | and the standard second | | in the property of the second second | | Stop Freq |
| And the state of t | | | | | 25.00000000 GHz |
| -70.0 | | | | | |
| | | | | 84++ 05 00 OU | OF Otom |
| Start 2.48 GHz #Res BW 100 kHz | #\/B\M 200 | | Swoon 3 | Stop 25.00 GHz | CF Step 2.251650000 GHz |
| #Res BW TOU KHZ | #VBW 300 I | XHZ | Sweep 2 | 2.152 s (30000 pts) | Auto Man |
| MKR MODE TRC SCL X | Y | | ON FUNCTION WIDTH | FUNCTION VALUE | Adto |
| | 565 7 GHz -48.70 | 07 dBm | | | |
| 2 | | | | | Freq Offset |
| 4 | | | | | 0 Hz |
| 5 | | | | | |
| 6 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| | | | | | |
| MSG | | | STATUS | | |

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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



| R RF 50 \$ | ot sa Ω AC CORREC | SENSE:INT | | 01:49:54 PM Nov 18, 2020 | |
|---------------------------------------|--|--------------------------------|--------------------------------------|---|--|
| enter Freq 2.4800 | 1000000 GHz PNO: Wide ↔ IFGain:Low | Trig: Free Run Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE MWWWW DET PNNNNN | Frequency |
| dB/div Ref 20.00 | | Hiteli oo ub | Mkr1 2.4 | 179 922 7 GHz 0.344 dBm | Auto Tun |
| J D D D | | | | | Center Fre 2.480000000 GH |
| | | | | | Start Fre 2.478500000 GH |
| | | | | | Stop Free 2.48150000 GH |
| nter 2.480000 GHz s BW 100 kHz | | W 300 kHz | Sweep 2.00 | Span 3.000 MHz 00 ms (30000 pts) | CF Ster 300.000 kH |
| MODE TRC SCL | × | | UNCTION FUNCTION WIDTH | FUNCTION VALUE | <u>Auto</u> Mar |
| N 1 f | 2.479 922 7 GHz | 0.344 dBm | | | Freq Offse 0 Hz |
| | | | | | |
| | | | | * | |
| | | | STATUS | | |
| nt Spectrum Analyzer - Swep | ot SA Ω AC CORREC | SENSE:INT | | 01:50:03 PMNov 18, 2020 | |
| nter Freq 1.2150 | | Tala Face Day | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE MWWWW DET PNNNN | Frequency |
| IB/div Ref 20.00 | dBm | | Mkr1 | 2.323 76 GHz -55.284 dBm | Auto Tune |
|) | | | | | |
| | | | | | Center Fred 1.215000000 GHz |
|) | | | | -19.66 dBm | |
| o o o | | | | -19.66 dBm | 1.215000000 GH: Start Free 30.000000 MH; |
| | | | | -19.66 dBm | 1.215000000 GH Start Free 30.000000 MH Stop Free |
| 0 | | N 300 kHz | Sweep 228 | -19.66 dBm 1 -19.66 dBm 1 -19.06 dBm 1 -19.06 dBm 5 top 2.400 GHz .0 ms (30000 pts) | 1.215000000 GH; Start Free 30.000000 MH; Stop Free 2.400000000 GH; CF Step 237.000000 MH; |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #VB\ 2.323 76 GHz | | Sweep 228 | ↓1 | 1.215000000 GH; Start Free 30.000000 MH; Stop Free 2.400000000 GH; 2.400000000 GH; 237.000000 MH; Auto Mar |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | × | Y FI | | 1 .top 2.400 GHz .0 ms (30000 pts) | 1.215000000 GH; Start Free 30.000000 MH; Stop Free 2.400000000 GH; CF Step 237.000000 MH; |
| art 30 MHz Res BW 100 kHz | × | Y FI | | 1 .top 2.400 GHz .0 ms (30000 pts) | 1.215000000 GH; Start Free 30.000000 MH; Stop Free 2.400000000 GH; 2.400000000 GH; 237.000000 MH; Auto Mar Freq Offset |

GFSK MODULATION IN HIGH CHANNEL

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Report No.: AGC08696201004FE02 Page 23 of 53

| Agilent Spectrum Analyzer - Swept SA | | | | | |
|--|--------------------------------|--------------------------------------|-------------------------------|---------------------------|------------------|
| LX/R RF 50Ω AC | | | ALIGN AUTO/NORF | | |
| Center Freq 13.75000000 | 0 GHz PNO: Fast +++ Trig: F | | Type: Log-Pwr Hold: 10/10 | TRACE 12345 TYPE MWWWW | Å |
| | | 30 dB | | DET PNNN | Ν |
| | | | Mkr1 | 21.559 6 GH | Auto Tune |
| 10 dB/div Ref 20.00 dBm | | | | -49.501 dBn | |
| Log | | | | | |
| 10.0 | | | | | Center Freq |
| 0.00 | | | | | 13.750000000 GHz |
| -10.0 | | | | | |
| | | | | -19.66 dB | |
| -20.0 | | | | | Start Freq |
| -30.0 | | | | | 2.500000000 GHz |
| -40.0 | | | | 1 | |
| -50.0 | | | | | |
| -60.0 | and a star strain strain for | line of the line states of the state | الماصيحة والمفاط والجريش | | Stop Freq |
| Name and Address of the Address of t | | | | | 25.00000000 GHz |
| -70.0 | | | | | |
| Start 2.50 GHz | | | | Stop 25.00 GH | CF Step |
| #Res BW 100 kHz | #VBW 300 kl | Ηz | Sweep 2 | .152 s (30000 pts | 2.250000000 GHz |
| | | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | Auto Man |
| | Y 559 6 GHz -49.501 | | FUNCTION WIDTH | FUNCTION VALUE | |
| 2 | 43.001 | abiii | | | Freq Offset |
| 3 | | | | | 0 Hz |
| 5 | | | | | UHZ |
| 6 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 1 1 | | | | | |
| MSG | | | STATUS | | |

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL

GFSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 7.2.

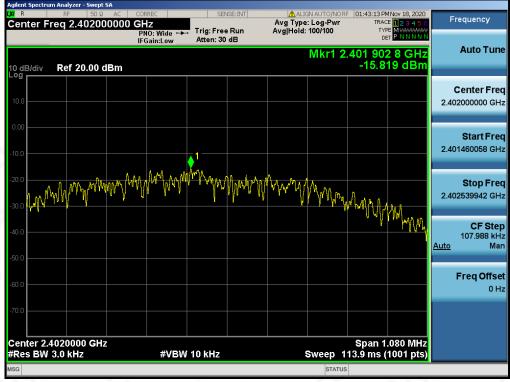
10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

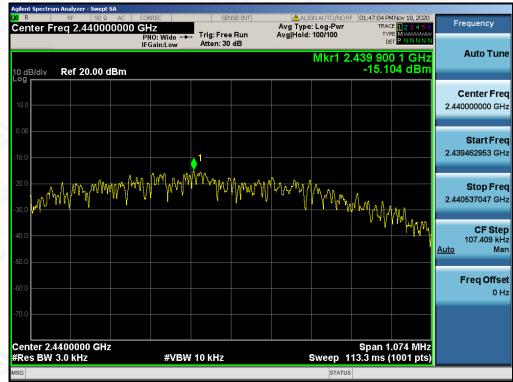
10.4. LIMITS AND MEASUREMENT RESULT

| Channel No. | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|----------------|-------------------|---------------------|--------|
| Low Channel | -15.819 | 8 | Pass |
| Middle Channel | -15.104 | 8 | Pass |
| High Channel | -14.838 | 8 | Pass |

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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11. RADIATED EMISSION

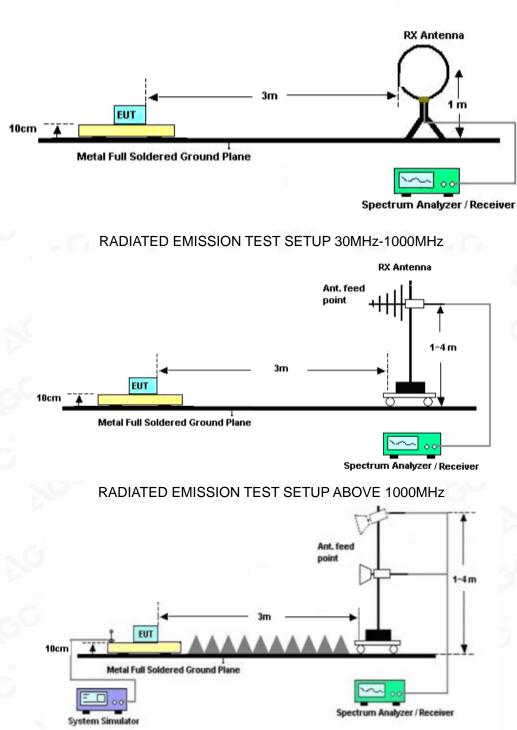
11.1. MEASUREMENT PROCEDURE

- 1. 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 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.

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11.2. TEST SETUP



Radiated Emission Test-Setup Frequency Below 30MHz

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Web: http://cn.agc-cert.com/

11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) | | |
|----------------------|--------------------------------------|----------------------------------|--|--|
| 0.009~0.490 | 2400/F(kHz) | 300 | | |
| 0.490~1.705 | 24000/F(kHz) | 30 | | |
| 1.705~30.0 | 30 | 30 | | |
| 30~88 | 100 | 3 | | |
| 88~216 | 150 | 3 | | |
| 216~960 | 200 | 3 | | |
| Above 960 | 500 | 3 | | |

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

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

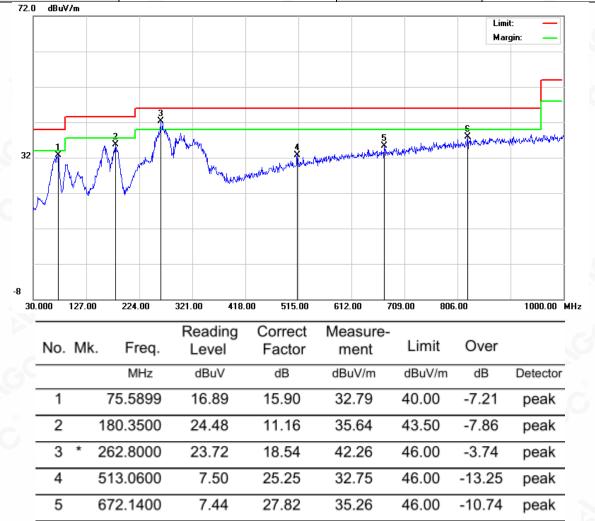
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| RADIATED EMISSION BELOW | 1GHZ |
|-------------------------|------|
|-------------------------|------|

| EUT | Electric scooter | Model Name | ESS2 |
|-------------|------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Antenna | Horizontal |



RESULT: PASS

6

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand in spectral definition of the stand in the report is not permitted without the written authorization of AGE in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

30.73

38.00

46.00

-8.00

peak

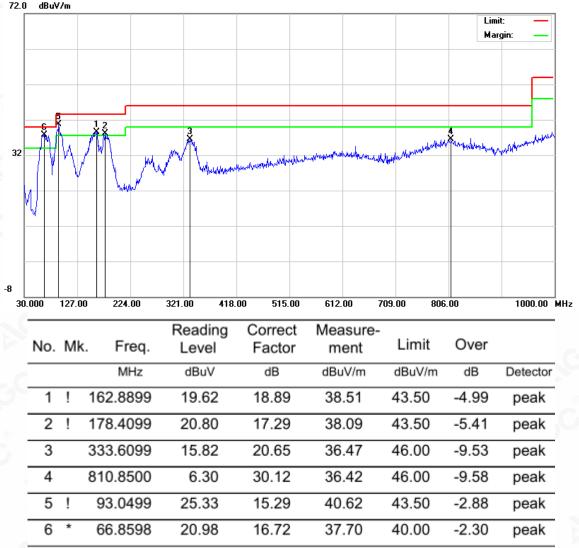
824.4300

7.27



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| EUT | Electric scooter | Model Name | ESS2 |
|-------------|------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Antenna | Vertical |
| 72.0 JD.371 | | | |



RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Over= Measurement -Limit.
- 2. All test modes had been tested. The mode 3 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

| EUT | Electric scooter | Model Name | ESS2 |
|-------------|------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---------------|-----------------|----------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4804.000 | 46.58 | 0.08 | 46.66 | 74 | -27.34 | peak |
| 4804.000 | 36.69 | 0.08 | 36.77 | 54 | -17.23 | AVG |
| 7206.000 | 39.47 | 2.21 | 41.68 | 74 | -32.32 | peak |
| 7206.000 | 32.32 | 2.21 | 34.53 | 54 🕓 | -19.47 | AVG |
| - 6 | 3 | | | - 6 | ® | |
| | - C | © | | | - G | 8 |
| emark: | | | | | | |
| actor = Anter | na Factor + Cab | le Loss – Pre- | amplifier. | | | |

| EUT | Electric scooter | Model Name | ESS2 |
|-------------|------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4804.000 | 45.89 | 0.08 | 45.97 | 74 | -28.03 | peak |
| 4804.000 | 35.64 | 0.08 | 35.72 | 54 💿 | -18.28 | AVG |
| 7206.000 | 39.71 | 2.21 | 41.92 | 74 | -32.08 | peak |
| 7206.000 | 31.52 | 2.21 | 33.73 | 54 | -20.27 | AVG |
| | | - Cu | | | | 20 |
| | | | | (R) | | |

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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| EUT | Electric scooter | Model Name | ESS2 |
|-------------|------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 2 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---------------|-------------------|-------------|----------------|----------|---------------------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4880.000 | 47.75 | 0.14 | 47.89 | 74 | [©] -26.11 | peak |
| 4880.000 | 36.62 | 0.14 | 36.76 | 54 | -17.24 | AVG |
| 7320.000 | 40.41 | 2.36 | 42.77 | 74 | -31.23 | peak |
| 7320.000 | 33.32 | 2.36 | 35.68 | 54 | -18.32 | AVG |
| ® | | | | . C | | |
| | 8 | | | | | |
| emark: | - 61 | 3 | | ~0~ | - 61 | 8 |
| ictor = Anter | na Factor + Cable | Loss - Pre- | amplifier. | | | a.G |

| EUT | Electric scooter | Model Name | ESS2 |
|-------------|------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 2 | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4880.000 | 47.63 | 0.14 | 47.77 | 74 | -26.23 | peak |
| 4880.000 | 39.47 | 0.14 | 39.61 | 54 | -14.39 | AVG |
| 7320.000 | 41.52 | 2.36 | 43.88 | 74 | -30.12 | peak |
| 7320.000 | 33.34 | 2.36 | 35.7 | 54 | -18.3 | AVG |
| | | S. | 0 | 8 | | 0 |
| emark: | | | | | | |

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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| EUT | Electric scooter | Model Name | ESS2 |
|-------------|------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---------------|--------------------|-------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4960.000 | 45.36 | 0.22 | 45.58 | 74 | -28.42 | peak |
| 4960.000 | 36.58 | 0.22 | 36.8 | 54 | -17.2 | AVG |
| 7440.000 | 39.44 | 2.64 | 42.08 | 74 | -31.92 | peak |
| 7440.000 | 30.47 | 2.64 | 33.11 | 54 | -20.89 | AVG |
| 0 | | | | 0 | | |
| C. | 8 | | | C. | ® | |
| emark: | - 6 | 8 | | | - 6 | 8 |
| actor = Anter | nna Factor + Cable | Loss – Pre- | amplifier. | | | e.C |

| EUT | Electric scooter | Model Name | ESS2 | | | |
|-------------|------------------|-------------------|----------------|--|--|--|
| Temperature | 25° C | Relative Humidity | 55.4% | | | |
| Pressure | 960hPa | Test Voltage | Normal Voltage | | | |
| Test Mode | Mode 3 | Antenna | Vertical | | | |

| | | Emission Level | Limits | Margin 🔬 | |
|--------|-------------------------|--|--|---|--|
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type |
| 45.76 | 0.22 | 45.98 | 74 | -28.02 | peak |
| 35.59 | 0.22 | 35.81 | 54 | -18.19 | AVG |
| 39.38 | 2.64 | 42.02 | 74 | -31.98 | peak |
| 30.19 | 2.64 | 32.83 | 54 | -21.17 | AVG |
| SOU | 20 | | | 0 | 20 |
| | 45.76 35.59 39.38 | 45.76 0.22 35.59 0.22 39.38 2.64 | 45.76 0.22 45.98 35.59 0.22 35.81 39.38 2.64 42.02 | 45.76 0.22 45.98 74 35.59 0.22 35.81 54 39.38 2.64 42.02 74 | 45.76 0.22 45.98 74 -28.02 35.59 0.22 35.81 54 -18.19 39.38 2.64 42.02 74 -31.98 |

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Level -Limit.

The "Factor" value can be calculated automatically by software of measurement system.

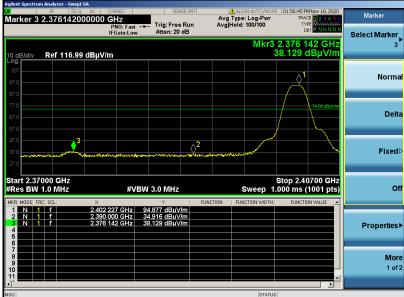
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| TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS | | | | | |
|---|------------------|-------------------|----------------|--|--|
| EUT | Electric scooter | Model Name | ESS2 | | |
| Temperature | 25° C | Relative Humidity | 55.4% | | |
| Pressure | 960hPa | Test Voltage | Normal Voltage | | |
| Test Mode | Mode 1 | Antenna | Horizontal | | |

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



RESULT: PASS

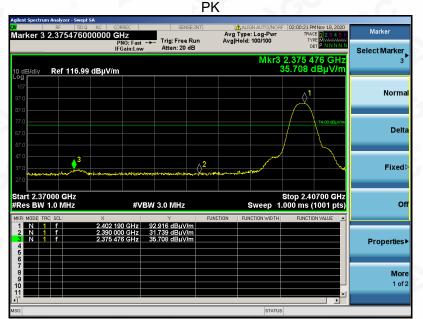
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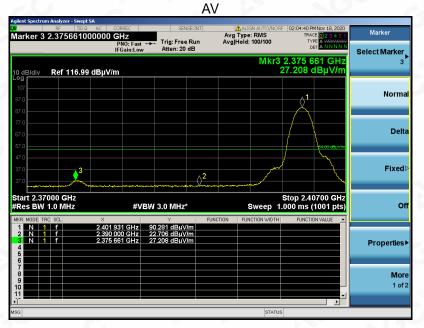
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| EUT | Electric scooter | Model Name | ESS2 | | |
|-------------|------------------|-------------------|----------------|--|--|
| Temperature | 25° C | Relative Humidity | 55.4% | | |
| Pressure | 960hPa | Test Voltage | Normal Voltage | | |
| Test Mode | Mode 1 | Antenna | Vertical | | |
| DI/ | | | | | |





RESULT: PASS

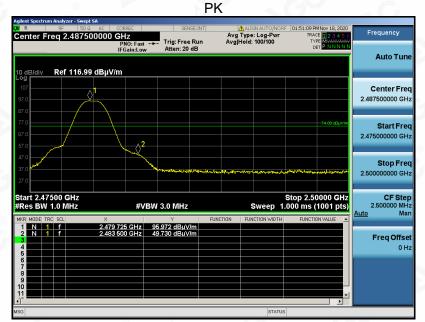
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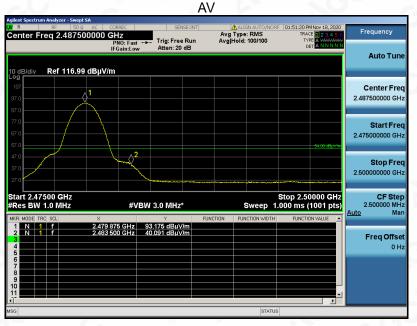
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| EUT | Electric scooter | Model Name | ESS2 |
|-------------|------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Antenna | Horizontal |
| | | | |





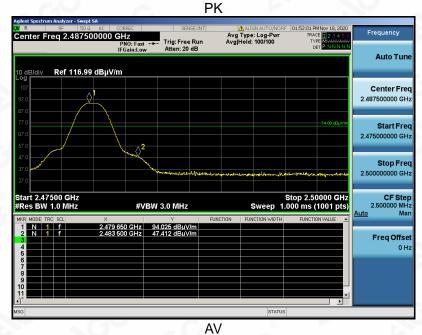
RESULT: PASS

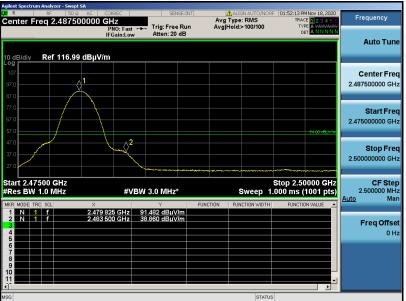
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Report No.: AGC08696201004FE02 Page 38 of 53

| EUT | Electric scooter | Model Name | ESS2 |
|-------------|------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Antenna | Vertical |





RESULT: PASS Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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12. FCC LINE CONDUCTED EMISSION TEST

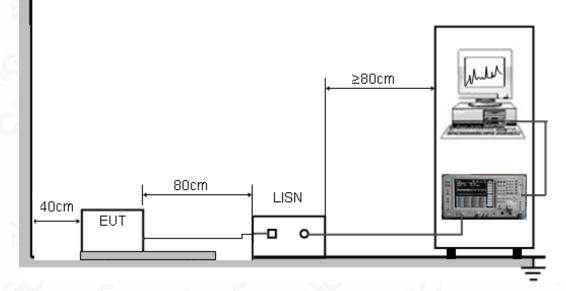
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Francisco | Maximum RF Line Voltage | | | | | |
|---------------|-------------------------|----------------|--|--|--|--|
| Frequency | Q.P.(dBuV) | Average(dBuV) | | | | |
| 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.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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 3.3V power from control board 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 50 ohm 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.

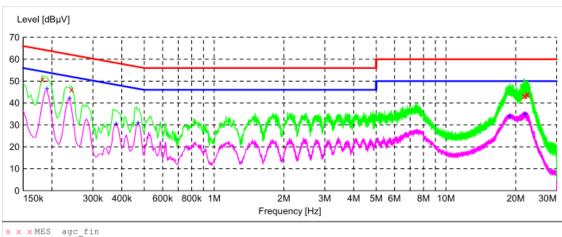
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. 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.

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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L

MEASUREMENT RESULT: "agc_fin"

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|--|--|--|----------------------------|--|--|----------------------------------|--|
| 0.182000 0.242000 21.726000 21.858000 22.302000 22.574000 | 50.80 46.20 43.20 43.30 44.00 43.70 | 10.3 10.3 12.4 12.4 12.4 12.4 | 64 60 60 60 60 | 13.6 15.8 16.8 16.7 16.0 16.3 | QP QP QP QP QP QP QP | L1 L1 L1 L1 L1 L1 | GND GND GND GND GND GND |

MEASUREMENT RESULT: "agc fin2"

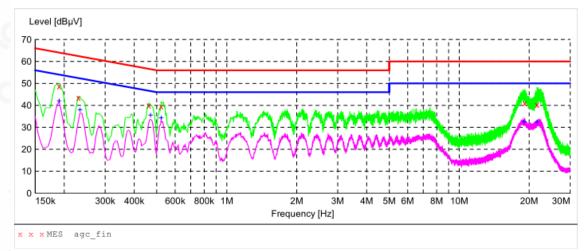
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|--|--|--|----------------------------------|---|----------------------------|----------------------------------|--|
| 0.190000 0.238000 0.378000 0.470000 18.854000 21.898000 | 46.50 42.10 30.40 30.90 33.90 34.80 | 10.3 10.3 10.3 10.3 12.2 12.4 | 54 52 48 47 50 50 | 7.5 10.1 17.9 15.6 16.1 15.2 | AV AV AV AV AV | L1 L1 L1 L1 L1 L1 | GND GND GND GND GND GND |

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MEASUREMENT RESULT: "agc_fin"

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|--|--|--|----------------------------|--|----------------------------------|-----------------------|--|
| 0.190000 0.230000 0.462000 0.522000 19.098000 21.610000 | 48.70 43.50 40.00 39.60 41.00 40.30 | 10.3 10.3 10.3 10.3 12.2 12.4 | 64 62 57 56 60 | 15.3 18.9 16.7 16.4 19.0 19.7 | QP QP QP QP QP QP | N N N N N | GND GND GND GND GND GND |

MEASUREMENT RESULT: "agc fin2"

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|--|--|--|----------------------------------|--|----------------------------|-----------------------|--|
| 0.190000 0.234000 0.470000 0.522000 19.038000 21.610000 | 42.00 37.90 35.50 34.20 32.40 32.30 | 10.3 10.3 10.3 10.3 12.2 12.4 | 54 52 47 46 50 50 | 12.0 14.4 11.0 11.8 17.6 17.7 | AV AV AV AV AV | N N N N N | GND GND GND GND GND GND |

RESULT: PASS

Note: All the test modes had been tested, the mode 3 was the worst case. Only the data of the worst case would be record in this test report.

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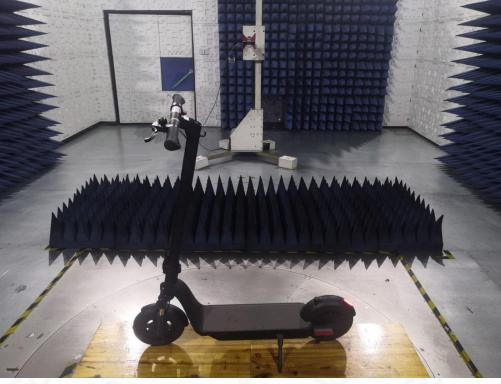
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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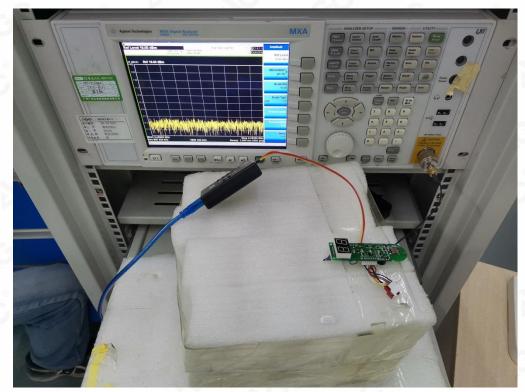


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CONDUCTED EMISSION TEST SETUP

CONDUCTED TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT WHOLE VIEW OF EUT

TOP VIEW OF EUT



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BOTTOM VIEW OF EUT





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BACK VIEW OF EUT



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RIGHT VIEW OF EUT

OPEN VIEW OF EUT-1



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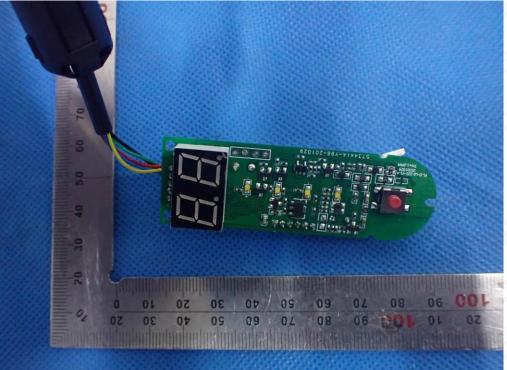


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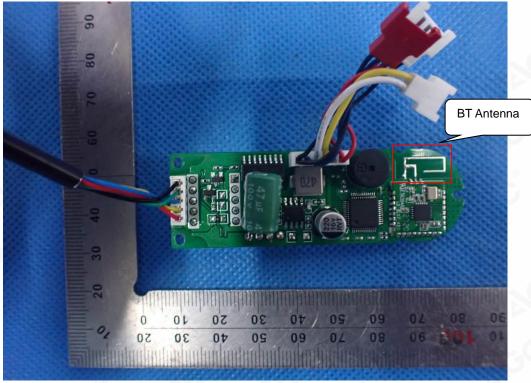


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INTERNAL VIEW OF EUT-1



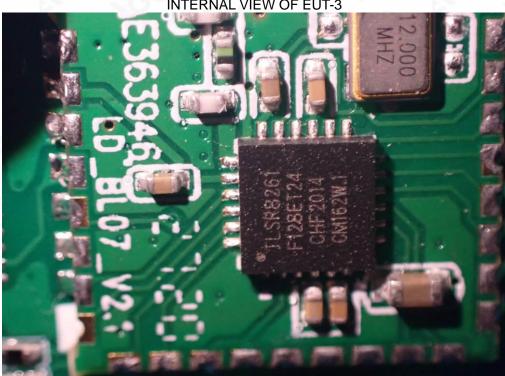
INTERNAL VIEW OF EUT-2



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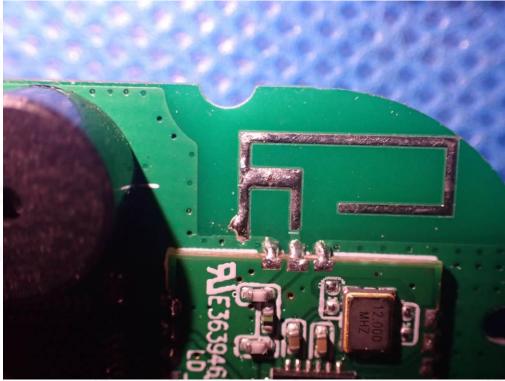


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INTERNAL VIEW OF EUT-3

INTERNAL VIEW OF EUT-4

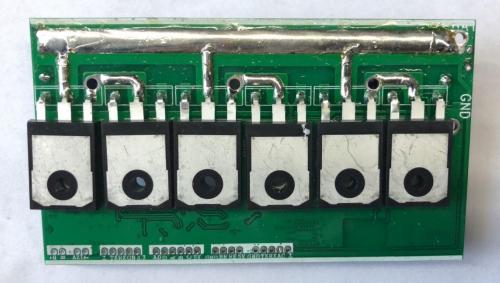


Compliancest Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "bedicated restriction of Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. The test results



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INTERNAL VIEW OF EUT-5



INTERNAL VIEW OF EUT-6

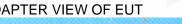


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END OF REPORT----

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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. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

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