

# TEST REPORT

**Application No.:** GZCR2503000272AT  
**Applicant:** Comba Telecom Network Systems Limited  
**Address of Applicant:** Flat/Rm 10, 3/F, Bio-Informatics Ctr, 2 Science Park West Avenue, HK Science Park, Pak Shek Kok, N.T. Hong Kong  
**Manufacturer:** Comba Network Systems Company Limited  
**Address of Manufacturer:** No. 10 Shenzhou Road, Guangzhou Science City, Guangzhou 510663, Guangdong, P.R. China  
**Product Name:** Comflex NG  
**Model No.:** Comflex NG MU  
**Trade Mark:** Comba  
**Standard(s) :** 47 CFR Part 2  
47 CFR Part 20  
47 CFR Part 24  
**Date of Receipt:** 2025-03-03  
**Date of Test:** 2025-04-29 to 2025-05-19  
**Date of Issue:** 2025-07-16

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

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



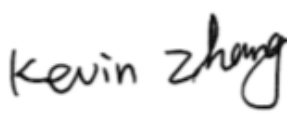
Jerry Chan  
Manager



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| Revision Record |                  |            |          |
|-----------------|------------------|------------|----------|
| Version         | Report No.       | Date       | Remark   |
| 01              | GZCR250300027206 | 2025-07-16 | Original |
|                 |                  |            |          |
|                 |                  |            |          |

|                          |  |                                                                                     |  |
|--------------------------|--|-------------------------------------------------------------------------------------|--|
| Authorized for issue by: |  |                                                                                     |  |
|                          |  |  |  |
|                          |  | Kevin Zhang/Project Engineer                                                        |  |
|                          |  |  |  |
|                          |  | Ricky Liu/Reviewer                                                                  |  |



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## 2 Test Summary

| Item                                                          | Standard             | Method                                                                               | Requirement                     | Result |
|---------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------|---------------------------------|--------|
| Out-of-band rejection                                         | KDB935210 D05 v01r04 | KDB935210 D05 v01r04 clause 3.3                                                      | KDB935210 D05 v01r04 clause 3.3 | Pass   |
| Input-versus-output signal comparison                         | 47 CFR Part 2        | KDB935210 D05 v01r04 clause 3.4                                                      | Part 2.1049                     | Pass   |
| Mean output power and amplifier/booster gain                  | 47 CFR Part 24       | KDB935210 D05 v01r04 clause 3.5                                                      | Part 24.232                     | Pass   |
| Out-of-band/out-of-block(including intermodulation) emissions |                      | KDB935210 D05 v01r04 clause 3.6                                                      | Part 24.238                     | Pass   |
| Conducted spurious emissions                                  |                      | KDB935210 D05 v01r04 clause 3.6                                                      | Part 24.238                     | Pass   |
| Frequency stability                                           |                      | 47 CFR Part 2.1055<br>KDB935210 D05 v01r04 clause 3.7<br>ANSI C63.26-2015 Clause 5.6 | Part 24.235                     | Pass   |
| Radiated spurious emissions (below 1GHz)                      |                      | KDB935210 D05 v01r04 clause 3.8<br>ANSI C63.26-2015 Clause 5.5                       | Part 24.238                     | Pass   |
| Radiated spurious emissions (above 1GHz)                      |                      | KDB935210 D05 v01r04 clause 3.8<br>ANSI C63.26-2015 Clause 5.5                       | Part 24.238                     | Pass   |

The EUT is a host unit of DAS which can be capable of multi-band operation (details refer to clause 4.1 of this report). It receives handset uplink via fiber-optic or coaxial cable from remote unit, transmits via antenna or coaxial cable to base station, and returns base station downlink via fiber-optic or coaxial cable to remote unit. POI Cards installed in MU chassis can only connect directly to a base station via coaxial cable, and BDA Card installed in MU chassis can only connect to a base station via antenna.

**Only test for Broadband PCS band uplink in this report.**

### Note:

E.U.T./ EUT means Equipment Under Test

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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### 3 Contents

|                                                                         | Page |
|-------------------------------------------------------------------------|------|
| 1 Covers Page .....                                                     | 1    |
| 2 Test Summary .....                                                    | 3    |
| 3 Contents .....                                                        | 4    |
| 4 General Information .....                                             | 6    |
| 4.1 Details of EUT .....                                                | 6    |
| 4.2 Description of Support Units .....                                  | 7    |
| 4.3 Test Environment .....                                              | 8    |
| 4.4 Measurement Uncertainty .....                                       | 8    |
| 4.5 Test Signals and Test Channels .....                                | 9    |
| 4.6 Test Location .....                                                 | 9    |
| 4.7 Test Facility .....                                                 | 10   |
| 4.8 Deviation from Standards .....                                      | 10   |
| 4.9 Abnormalities from Standard Conditions .....                        | 10   |
| 5 Equipment List .....                                                  | 11   |
| 6 Radio Spectrum Matter Test Results .....                              | 13   |
| 6.1 Out-of-band rejection .....                                         | 13   |
| 6.1.1 E.U.T. Operation .....                                            | 13   |
| 6.1.2 Test Setup .....                                                  | 13   |
| 6.1.3 Measurement Record .....                                          | 13   |
| 6.2 Input versus output comparison .....                                | 14   |
| 6.2.1 E.U.T. Operation .....                                            | 14   |
| 6.2.2 Test Setup .....                                                  | 14   |
| 6.2.3 Measurement Record .....                                          | 14   |
| 6.3 Mean output power and amplifier/booster gain .....                  | 15   |
| 6.3.1 E.U.T. Operation .....                                            | 15   |
| 6.3.2 Test Setup .....                                                  | 15   |
| 6.3.3 Measurement Record .....                                          | 15   |
| 6.4 Out-of-band/out-of-block(including intermodulation) emissions ..... | 16   |
| 6.4.1 E.U.T. Operation .....                                            | 16   |
| 6.4.2 Test Setup .....                                                  | 16   |
| 6.4.3 Measurement Record .....                                          | 16   |
| 6.5 Conducted Spurious emissions .....                                  | 17   |
| 6.5.1 E.U.T. Operation .....                                            | 17   |
| 6.5.2 Test Setup .....                                                  | 17   |
| 6.5.3 Measurement Record .....                                          | 17   |
| 6.6 Frequency Stability .....                                           | 18   |
| 6.6.1 E.U.T. Operation .....                                            | 18   |
| 6.6.2 Test Setup .....                                                  | 18   |
| 6.6.3 Measurement Record .....                                          | 18   |
| 6.7 Radiated Spurious emission (below 1GHz) .....                       | 19   |
| 6.7.1 E.U.T. Operation .....                                            | 19   |



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|            |                                                      |           |
|------------|------------------------------------------------------|-----------|
| 6.7.2      | Test Setup.....                                      | 19        |
| 6.7.3      | Test procedure.....                                  | 20        |
| 6.7.4      | Measurement Record.....                              | 20        |
| <b>6.8</b> | <b>Radiated Spurious emission (above 1GHz).....</b>  | <b>21</b> |
| 6.8.1      | E.U.T. Operation.....                                | 21        |
| 6.8.2      | Test Setup.....                                      | 21        |
| 6.8.3      | Test procedure.....                                  | 22        |
| 6.8.4      | Measurement Record.....                              | 22        |
| <b>7</b>   | <b>Test Setup Photographs .....</b>                  | <b>23</b> |
| <b>8</b>   | <b>EUT Constructional Details (EUT Photos) .....</b> | <b>23</b> |



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## 4 General Information

### 4.1 Details of EUT

|                          |                            |                                                                                                                                                                   |
|--------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Supply:            | AC 100-240V, 50-60Hz       |                                                                                                                                                                   |
| Test Voltage:            | AC 120V 60Hz               |                                                                                                                                                                   |
| Cable:                   | AC mains (4m, unshielded)  |                                                                                                                                                                   |
| Operating Temperature:   | -20 to +55 °C              |                                                                                                                                                                   |
| Operating Humidity:      | ≤95%                       |                                                                                                                                                                   |
| Frequency Range:         | Lower 700MHz               | Uplink: 698-716MHz<br>Downlink: 728-746MHz                                                                                                                        |
|                          | Upper 700MHz               | Uplink: 777-787MHz<br>Downlink: 746-756MHz                                                                                                                        |
|                          | FirstNet                   | Uplink: 788-798MHz<br>Downlink: 758-768MHz                                                                                                                        |
|                          | Cellular                   | Uplink: 824-849MHz<br>Downlink: 869-894MHz                                                                                                                        |
|                          | Broadband PCS              | Uplink: 1850-1915MHz<br>Downlink: 1930-1995MHz                                                                                                                    |
|                          | AWS                        | Uplink: 1710-1780MHz<br>Downlink: 2110-2180MHz                                                                                                                    |
|                          | BRS/EBS                    | Uplink: 2496-2690MHz<br>Downlink: 2496-2690MHz                                                                                                                    |
|                          | 3.45GHz Service band       | Uplink: 3450-3550MHz<br>Downlink: 3450-3550MHz                                                                                                                    |
|                          | 3.7GHz Service band        | Uplink: 3700-3980MHz<br>Downlink: 3700-3980MHz                                                                                                                    |
| Support Technology:      | LTE                        |                                                                                                                                                                   |
|                          | 5G NR                      |                                                                                                                                                                   |
| Interface:               | Antenna Port               | 5 (4.3-10 Female)*                                                                                                                                                |
|                          | Optical Port               | 4 (SC-APC)                                                                                                                                                        |
|                          | OMT Port                   | 1 (RJ-45)                                                                                                                                                         |
|                          | *                          | The other 4.3-10 Female ports belong to the POI card, which connects directly to a base station via coaxial cable but cannot connect to antenna and/or amplifier. |
| Antenna Type:            | External Dedicated Antenna |                                                                                                                                                                   |
| Permission Antenna Gain: | 14dBi or less              |                                                                                                                                                                   |



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|                                                                                                                                                                                        |                      |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------|
| Normal Output Power:<br>(per antenna port,<br>uplink, BDA card)                                                                                                                        | Lower 700MHz         | 19dBm |
|                                                                                                                                                                                        | Upper 700MHz         | 19dBm |
|                                                                                                                                                                                        | FirstNet             | 19dBm |
|                                                                                                                                                                                        | Cellular             | 19dBm |
|                                                                                                                                                                                        | Broadband PCS        | 19dBm |
|                                                                                                                                                                                        | AWS                  | 19dBm |
|                                                                                                                                                                                        | BRS/EBS              | 22dBm |
|                                                                                                                                                                                        | 3.45GHz Service band | 22dBm |
|                                                                                                                                                                                        | 3.7GHz Service band  | 22dBm |
| Normal System Gain:<br>(per antenna port,<br>uplink, BDA card)                                                                                                                         | Lower 700MHz         | 80dB  |
|                                                                                                                                                                                        | Upper 700MHz         | 80dB  |
|                                                                                                                                                                                        | FirstNet             | 80dB  |
|                                                                                                                                                                                        | Cellular             | 80dB  |
|                                                                                                                                                                                        | Broadband PCS        | 80dB  |
|                                                                                                                                                                                        | AWS                  | 80dB  |
|                                                                                                                                                                                        | BRS/EBS              | 80dB  |
|                                                                                                                                                                                        | 3.45GHz Service band | 80dB  |
|                                                                                                                                                                                        | 3.7GHz Service band  | 80dB  |
| Software Version:                                                                                                                                                                      | ChassisOAMV0100.01   |       |
| Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information. |                      |       |

## 4.2 Description of Support Units

| Description                                        | Manufacturer | Model No.               | Serial No. |
|----------------------------------------------------|--------------|-------------------------|------------|
| Notebook                                           | LENOVO       | Lenovo Xiaoxinchao 5000 | PF0TNMG8   |
| Comflex NG                                         | Comba        | ARU-6B-Internal         | /          |
| Comflex NG                                         | Comba        | ARU-HUB-AC              | /          |
| Matched load and attenuator supplied by the client | /            | /                       | /          |



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Guangzhou Branch, EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgs.com.cn  
t (86-20) 82155555 sgs.china@sgs.com

### 4.3 Test Environment

| Environment Parameter | Selected Values During Test |             |
|-----------------------|-----------------------------|-------------|
| Relative Humidity     | Ambient                     |             |
| Value                 | Temperature (°C)            | Voltage (V) |
| TNVN                  | Asmbient                    | AC 120      |
| TLVL                  | -30                         | AC 102      |
| TLVH                  | -30                         | AC 138      |
| THVL                  | +50                         | AC 102      |
| THVH                  | +50                         | AC 138      |

VN: Normal Voltage, TN: Normal Temperature

VL: Lower Extreme Voltage, VH: Higher Extreme Voltage

TL: Lower Extreme Temperature, TH: Higher Extreme Temperature

### 4.4 Measurement Uncertainty

| No. | Item                           | Measurement Uncertainty                                                                        |
|-----|--------------------------------|------------------------------------------------------------------------------------------------|
| 1   | RF Output Power                | ±0.75dB                                                                                        |
| 2   | Transmitter unwanted emissions | ±0.75dB                                                                                        |
| 3   | Radiated Spurious Emission     | ±5.06dB (30MHz-1GHz; 3m); ±4.46dB (30MHz-1GHz; 10m); ±5.08dB (1GHz-6GHz); ±5.14dB (6GHz-18GHz) |
| 4   | Occupied Channel Bandwidth     | ± 0.274%                                                                                       |

Remark:

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR}$  (CISPR Uncertainty) or  $U_{ETSI}$  (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.



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SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch, EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn  
t (86-20) 82155555 sgs.china@sgs.com

### 4.5 Test Signals and Test Channels

| UL 1850-1910MHz |                      |             |                           |
|-----------------|----------------------|-------------|---------------------------|
| Test Channel    | Test Frequency (MHz) | Test Signal | Stimulus Condition        |
| LCH             | 1852.5               | 4.1MHz AWGN | a single test signal      |
| MCH             | 1882.5               |             |                           |
| HCH             | 1912.5               |             |                           |
| LCH             | 1852.5, 1857.5       |             | two adjacent test signals |
| HCH             | 1907.5, 1912.5       |             |                           |
| LCH             | 1900                 | 100MHz AWGN | a single test signal      |
| MCH             | 1882.5               |             |                           |
| HCH             | 1960                 |             |                           |
| LCH             | 1850.2               | GSM-TDMA    | a single test signal      |
| MCH             | 1882.5               |             |                           |
| HCH             | 1909.8               |             |                           |
| LCH             | 1850.2, 1850.6       |             | two adjacent test signals |
| HCH             | 1909.4, 1909.8       |             |                           |

LCH: Lowest Channel

MCH: Middle Channel

HCH: Highest Channel

DL: Downlink Path

UL: Uplink Path

The EUT cannot accommodate two simultaneous 100MHz AWGN signals within the passband.

### 4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,  
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn  
t (86-20) 82155555 sgs.china@sgs.com

## 4.7 Test Facility

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

### ● ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

### ● SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

### ● FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

### ● ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

### ● VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

### ● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

## 4.8 Deviation from Standards

None

## 4.9 Abnormalities from Standard Conditions

None



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Guangzhou Branch EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn  
t (86-20) 82155555 sgs.china@sgs.com

## 5 Equipment List

| Conducted test equipment                     |                      |           |              |            |              |
|----------------------------------------------|----------------------|-----------|--------------|------------|--------------|
| Equipment                                    | Manufacturer         | Model No  | Inventory No | Cal Date   | Cal Due Date |
| Temperature Chamber                          | GZ GongWen Co.Ltd.   | GDJW-100  | EMC0039      | 2024-06-17 | 2025-06-16   |
| EXA Signal Analyzer<br>(10Hz-44GHz)          | Keysight             | N9010A    | EMC2138      | 2024-08-19 | 2025-08-18   |
| MXA Signal Analyzer<br>(10Hz-50GHz)          | KEYSIGHT             | N9020B    | SEM004-24    | 2025-03-11 | 2026-03-10   |
| Spectrum Analyzer(9kHz-30GHz)                | Rohde & Schwarz      | FSP30     | SEM004-06    | 2024-09-21 | 2025-09-20   |
| MI CABLE                                     | SGS-EMC              | 0.8M      | EMC2137      | 2023-11-02 | 2025-11-01   |
| MI CABLE                                     | SGS-EMC              | 0.8M      | EMC2136      | 2023-11-02 | 2025-11-01   |
| 4X4 Power Sensor Unit                        | TST                  | TSPS2023R | EMC2257      | 2024-08-19 | 2025-08-18   |
| EXA Signal Analyzer                          | Agilent Technologies | N9010A    | EMC2222      | 2024-12-03 | 2025-12-02   |
| ESG vector signal generator<br>(250kHz-6GHz) | Agilent Technologies | E4438C    | SEM006-03    | 2024-12-03 | 2025-12-02   |
| Test Software                                | TST                  | V2.0      | GZE100-82    | N/A        | N/A          |

| Radiated Spurious Emissions Below 1GHz |                             |               |               |            |              |
|----------------------------------------|-----------------------------|---------------|---------------|------------|--------------|
| Equipment                              | Manufacturer                | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
| 10m Semi-Anechoic Chamber              | ETS                         | N/A           | EMC0530       | 2022-10-16 | 2025-10-15   |
| Amplifier (9kHz-1.3GHz)                | HP                          | 8447F         | EMC2065       | 2024-12-04 | 2025-12-03   |
| EMI Test Receiver<br>(9kHz-7GHz)       | Rohde & Schwarz             | ESR7          | EMC2220       | 2024-12-04 | 2025-12-03   |
| Test Software E3                       | Audix                       | Ver.6.120110a | GZE100-61     | N/A        | N/A          |
| Trilog Broadband Antenna (25MHz-2GHz)  | Schwarzbeck Mess-Elektronik | VULB 9168     | EMC2174       | 2025-04-21 | 2027-04-20   |
| Coaxial Cable                          | Mirco-COAX UTIFLEX ve       | LA2-C125-8000 | EMC2239       | 2024-12-04 | 2026-12-03   |
| Trilog Broadband Antenna (25MHz-1GHz)  | SCHWARZBECK                 | VULB 9160     | EMC2025       | 2022-09-07 | 2025-09-06   |
| Active Loop Antenna-RED                | ETS-Lindgren                | 6502          | EMC2190       | 2024-04-08 | 2026-04-07   |



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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| Radiated Spurious Emissions Above 1GHz      |                                |               |               |            |              |
|---------------------------------------------|--------------------------------|---------------|---------------|------------|--------------|
| Equipment                                   | Manufacturer                   | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
| 1GHz-26.5 GHz Pre-Amplifier                 | Agilent                        | 8449B         | EMC0521       | 2024-10-14 | 2025-10-13   |
| Chamber cable (Above 1GHz)                  | Scoflex                        | KMKM-8.0m     | EMC0545       | 2024-08-19 | 2026-08-18   |
| Horn Antenna (1GHz-18GHz)                   | SCHWARZBECK<br>MESS-ELEKTRONIK | BBHA 9120D    | EMC2026       | 2022-09-23 | 2025-09-22   |
| Horn Antenna (14-40GHz)                     | SCHWARZBECK                    | BBHA 9170     | EMC2041       | 2023-06-18 | 2026-06-17   |
| EXA Signal Analyzer (10Hz-44GHz)            | Keysight                       | N9010A        | EMC2138       | 2024-08-19 | 2025-08-18   |
| 966 Anechoic Chamber                        | C.R.T                          | 9m x 6m x 6m  | EMC2142       | 2023-12-20 | 2026-12-19   |
| Microwave Broadband Preamplifier (18-40GHz) | SCHWARZBECK                    | BBV 9721      | EMC2172       | 2024-08-19 | 2025-08-18   |
| Test Software E3                            | Audix                          | Ver.6.120110a | GZE100-61     | N/A        | N/A          |

| General used equipment |              |          |              |            |              |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment              | Manufacturer | Model No | Inventory No | Cal Date   | Cal Due Date |
| DMM                    | Fluke        | 73       | EMC0006      | 2024-06-13 | 2025-06-12   |



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## 6 Radio Spectrum Matter Test Results

### 6.1 Out-of-band rejection

Test Requirement: KDB 935210 D05 clause 3.3  
 Test Method: KDB 935210 D05 clause 3.3  
 Limit: Within the passband

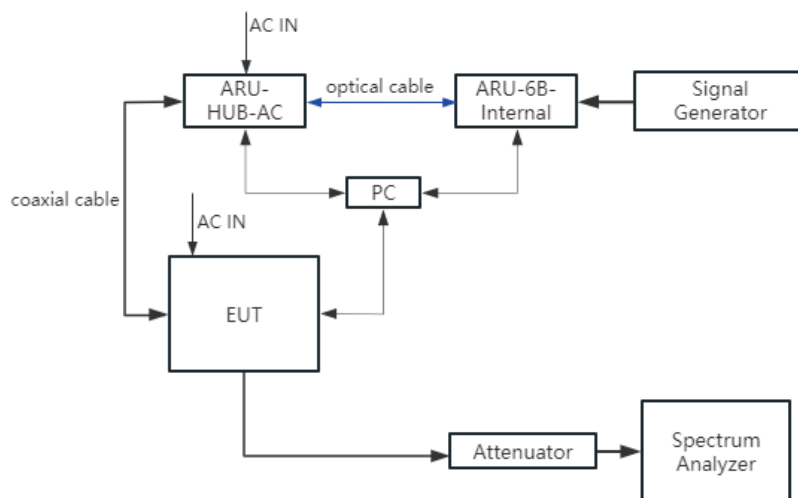
#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.1.2 Test Setup



#### 6.1.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR250300027206.

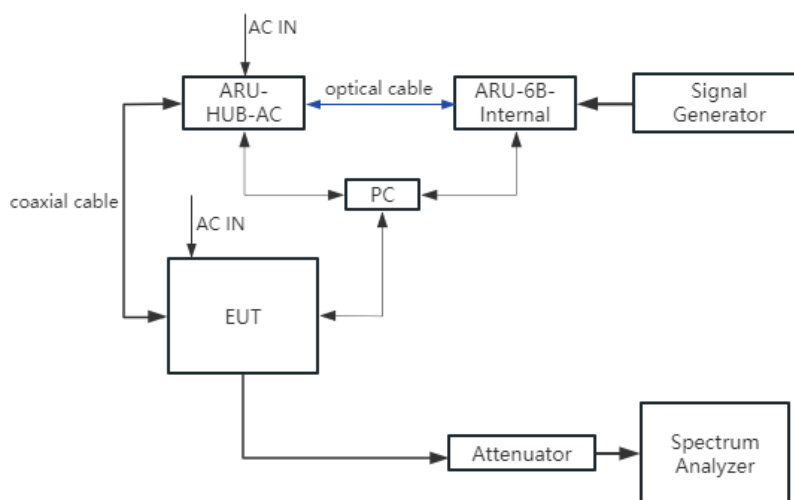
### 6.2 Input versus output comparison

Test Requirement: 47 CFR Part 2.1049  
 Test Method: KDB 935210 D05 clause 3.4  
 Limit: The spectral plots of the output signal and the input signal are similar (in passband and rolloff characteristic features and relative spectral locations).

#### 6.2.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar  
 EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.2.2 Test Setup



#### 6.2.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR250300027206.



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### 6.3 Mean output power and amplifier/booster gain

Test Requirement: 47 CFR Part 24.232

Test Method: KDB 935210 D05 clause 3.5

Limit: Base stations with an emission bandwidth of 1 MHz or less are limited to 1640 watts equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT  
Base stations with an emission bandwidth greater than 1 MHz are limited to 1640 watts/MHz equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT  
In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

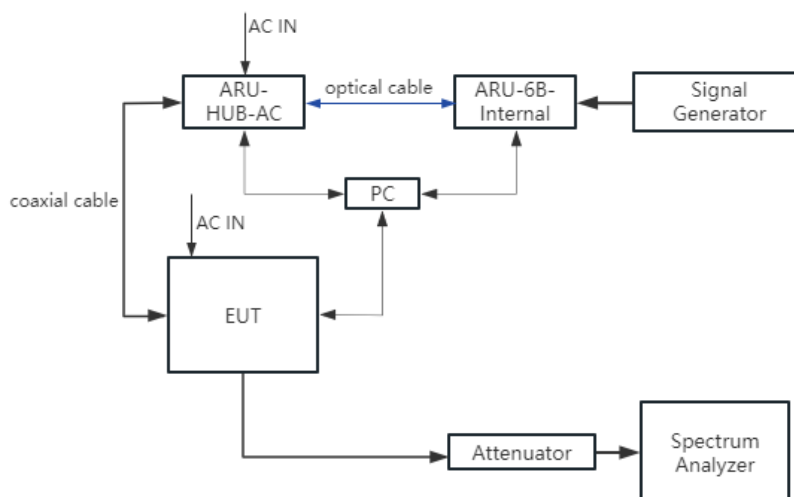
#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.3.2 Test Setup



#### 6.3.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR250300027206.



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### 6.4 Out-of-band/out-of-block(including intermodulation) emissions

Test Requirement: 47 CFR Part 24.238  
 Test Method: KDB 935210 D05 clause 3.6  
 Limit: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

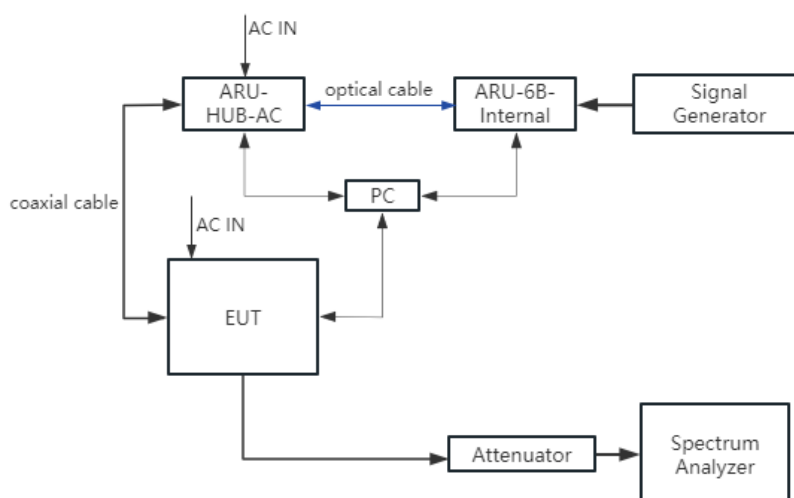
#### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.4.2 Test Setup



#### 6.4.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR250300027206.



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### 6.5 Conducted Spurious emissions

Test Requirement: 47 CFR Part 24.238

Test Method: KDB 935210 D05 clause 3.6

Limit: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

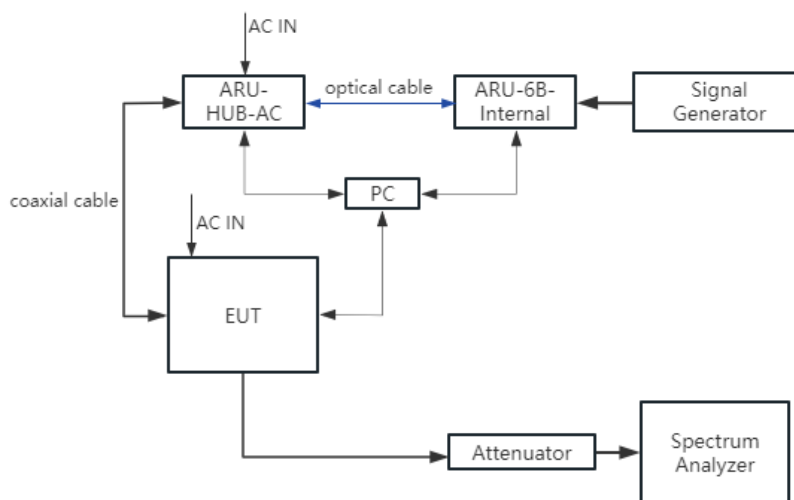
#### 6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.5.2 Test Setup



#### 6.5.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR250300027206.

### 6.6 Frequency Stability

Test Requirement: 47 CFR Part 24.235

Test Method: 47 CFR Part 2.1055  
KDB 935210 D05 clause 3.7  
ANSI C63.26-2015 clause 5.6

Limit: The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

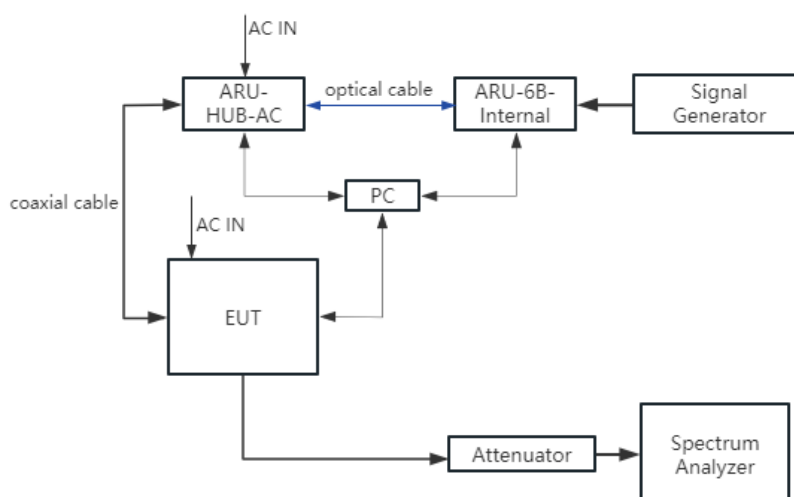
#### 6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.6.2 Test Setup



#### 6.6.3 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR250300027206.

### 6.7 Radiated Spurious emission (below 1GHz)

Test Requirement: 47 CFR Part 24.238

Test Method: KDB 935210 D05 clause 3.8  
ANSI C63.26-2015 clause 5.5

Test Distance: 10 m

Limit: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

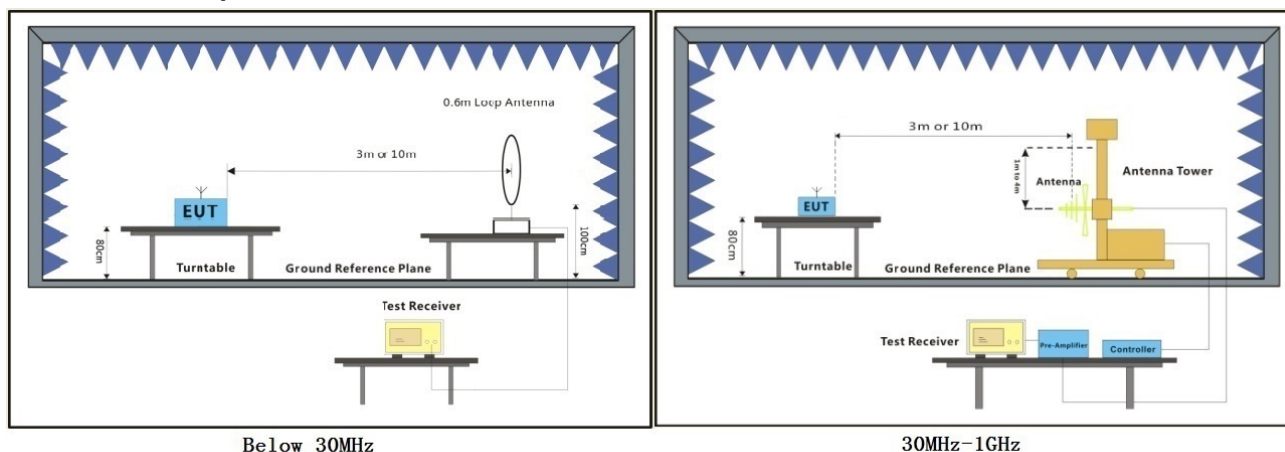
#### 6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 52 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.7.2 Test Setup



Below 30MHz

30MHz-1GHz

Below 1GHz



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## 6.7.3 Test procedure

1. Scan from 9kHz to 1GHz, find the maximum radiation frequency to measure.
2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.
  - 1) The EUT was powered on and placed on a table in the chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
  - 2) Rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
  - 3) Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
  - 4) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
  - 5) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
  - 6) The output power into the substitution antenna was then measured.
  - 7) Steps 5) and 6 )were repeated with both antennas vertically polarized.
  - 8) Calculate power in dBm by the following formula:  

$$\text{Level (dBm)} = \text{Read Level (dBm)} + \text{Correction Factor (dB)}$$

## 6.7.4 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR250300027206.



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### 6.8 Radiated Spurious emission (above 1GHz)

Test Requirement: 47 CFR Part 24.238

Test Method: KDB 935210 D05 clause 3.8  
ANSI C63.26-2015 clause 5.5

Limit: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

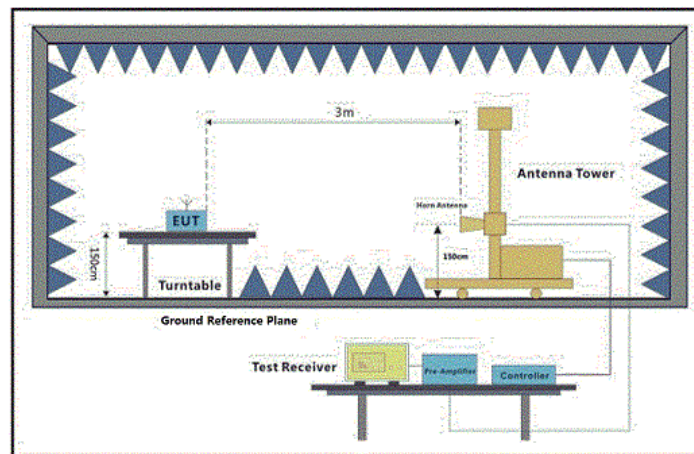
#### 6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Humidity: 54 % RH Atmospheric Pressure: 1015 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.8.2 Test Setup



Above 1GHz

## 6.8.3 Test procedure

1. Scan from 1GHz to 40GHz, find the maximum radiation frequency to measure.
2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.
  - 1) The EUT was powered on and placed on a table in the fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
  - 2) Rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
  - 3) Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
  - 4) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
  - 5) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
  - 6) The output power into the substitution antenna was then measured.
  - 7) Steps 5) and 6) were repeated with both antennas vertically polarized.
  - 8) Calculate power in dBm by the following formula:  

$$\text{Level (dBm)} = \text{Read Level (dBm)} + \text{Correction Factor (dB)}$$

## 6.8.4 Measurement Record

Please refer to Appendix - Test Data and Result for report GZCR250300027206.



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SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch, EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgs.com.cn  
t (86-20) 82155555 sgs.china@sgs.com

## 7 Test Setup Photographs

Refer to Appendix - Test Setup Photos for GZCR250300027206.

## 8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2503000272AT.

**- End of the Report -**



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